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# **Aaron Taylor**

Candidate

# **Electrical and Computer Engineering**

Department

This thesis is approved, and it is acceptable in quality and form for publication:

Approved by the Thesis Committee:

Ell , Chairperson lohe

## Microcontroller (8051-Core) Instruction Susceptibility to Intentional Electromagnetic Interference (IEMI)

By

**Aaron Taylor** 

B.S., Electrical Engineering, University of Portland, 2007

## THESIS

Submitted in Partial Fulfillment of the Requirements for the Degree of

Master of Science Electrical Engineering

The University of New Mexico Albuquerque, New Mexico

August, 2011

# DEDICATION

For Ashley and Eloise.

# ACKNOWLEDGMENT

This work was partially funded by a grant provided by the Air Force Office of Scientific Research (AFOSR).

## MICROCONTROLLER (8051-CORE) INSTRUCTION SUSCEPTIBILITY TO INTENTIONAL ELECTROMAGNETIC INTERFERENCE (IEMI)

BY

## AARON TAYLOR

#### ABSTRACT OF THESIS

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## ABSTRACT

Intentional Electromagnetic Interference (IEMI) is a rising threat to the electronic systems that are used and depended upon in everyday life of civil society. To address this threat, it is important to develop an understanding of what IEMI is and how it can be used to disrupt sophisticated electronic systems. By understanding IEMI and its disruptive effects, predictive models and protection standard can be developed for various types of electronic systems to address the threat.

The focus of this thesis is to detail the experimental results involved when investigating the susceptibility of a single microcontroller instruction. A microcontroller represents a system on a chip and provides an ideal starting point for developing a predictive model for the upset effects that can be caused by an IEMI attack on a digital system. The microcontroller device used in the experiment is the ATMEL AT89LP2052, which is an 8051-core based microcontroller device that processes instructions in parallel. The experiment involves targeting specific moments within an instruction cycle, based on the parallel processing of the LP2052, to determine whether or not different actions within the cycle have different susceptibility levels to IEMI.

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#### Chapter 1 The Threat of IEMI

#### **1** Introduction and Background

The primary purpose of this thesis is to develop a better understanding of the upset mechanisms of a microcontroller when it is injected with an intentional electromagnetic interference signal (IEMI). The susceptibility of the different actions processed within an assembly instruction will be measured on a microcontroller of the 8051-core family – the ATMEL AT89LP2052. To understand why this microcontroller upset investigation is necessary, an overview of high-power electromagnetics (HPEM) and IEMI is presented in this introductory chapter.

IEMI is a rising threat to the electronic systems that are used and depended upon in everyday life of civil society. To address this threat, it is important to first develop an understanding of what IEMI is and how it can be used to disrupt sophisticated electronic systems. The recent Special Issue of the IEEE Transactions on Electromagnetic Compatibility on HPEM and IEMI [1-16] provides an excellent overview on the disruptive nature of HPEM and IEMI.

In recent years, the scientific community has decided to promote IEMI as being defined as: "The intentional malicious generation of electromagnetic energy introducing noise or signals into electric and electronic systems, thus disrupting, confusing, or damaging these systems for terrorist or criminal purposes" [17]. The special issue is divided into four topic areas: 1.) IEMI waveform classification and generation capabilities [2-4], 2.) The coupling process as applied to cables and systems [5-7], 3.) The effects of IEMI on equipment, system and communications [8-13], and 4.) Protection, measurements and standards related to IEMI and HPEM [14-16]. As an introduction to

the special issue, Radasky et al. [1] provides a brief description of each topic areas being addressed, beginning with past incidents involving HPEM effects.

Reviewing historical effects of HPEM on electronic systems, various incidents involving electromagnetic interference (EMI) have occurred in the military, the automobile industry, and in the medical care business. In 1967, one of the most severe cases of EMI occurred on the USS Forrestal. A military aircraft was exposed to the ship's radar as it was landing on the carrier. This exposure caused the aircraft to accidently fire its munitions into the ship, causing severe carrier damage and resulting in 134 deaths. In the automobile industry, EMI caused problems in antilock braking systems (ABS) when they were first introduced. On the autobahn in Germany, EMI from nearby radio transmitters caused the brakes to apply on passing autos. In the medical care industry, a radio transmitter in an ambulance caused the monitor and defibrillator to shut down every time it was used, resulting in the death of a 93-year-old heart attack victim [1, 18].

Radasky et al. [1] highlights many reasons to be concerned about the impacts of IEMI on society. To help spread awareness of these concerns, the International Radio Scientific Union (URSI) created the "Resolution of Criminal Activities using Electromagnetic Tools" in 1999. The URSI council provided recommended actions for the scientific community and, specifically, the EMC community to undertake on account of this threat. Each individual topic area of the "Special Issue" will now be discussed in detail to describe the overall threat of IEMI. Emphasis will be placed on the topic areas that directly relate to how the microcontroller upset investigation fits within this broad overview.

#### 1.1 Classification and Capabilities to Generate IEMI Waveforms

The first step in understanding the threats posed by IEMI to electronic equipment is to become familiar with the different types of intentional electromagnetic environments (IEME) that exist and the various worldwide capabilities that exist to generate these IEMEs. Chapter 1.1.1 will provide an overview on different IEMEs and Chapter 1.1.2 will provide details on the various capabilities that exist to generate these waveforms, along with a survey of worldwide wideband capabilities.

#### **1.1.1 Electromagnetic Environments**

When it comes to intentional electromagnetic environments (IEME), Giri et al. [2] describes three categories of classification: 1.) Classification based on environmental attributes, 2.) Classification in terms of HPEM source technology, and 3.) Classification in terms of system effects. Classification in terms of environmental attributes is the preferred method to describe IEME. This is because environmental attributes are quantitative measurements, whereas the other two methods tend to be subjective in measurement.

When looking at environmental attributes, Figure 1 provides a comparison of different EM environments based on spectral density versus frequency [19]. Natural occurring phenomena such as lightning is the most common cause of malfunction to commercial electronics. Surge protectors and lightning rods can be used in these environments to help minimize the effects caused by these types of EM environments. Another area to be concerned with are the HPEM environments. These types of environments are intentionally caused to disrupt electronic systems, hence the name

IEME. The two major categories of HPEM environments are narrowband and wideband [2].

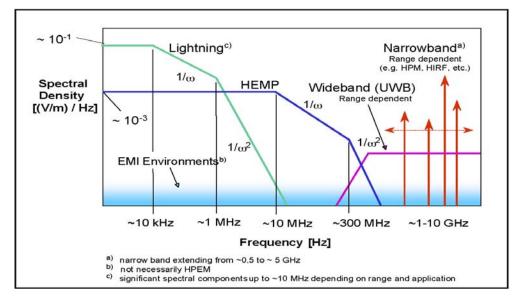


Figure 1. EM environments based on spectral density as a function of frequency. The narrowband and wideband environments are the two major categories in terms of HPEM (from [19]).

In the first category of HPEM environments, a narrowband waveform can be described as "nearly a single frequency... of power delivered over a fixed time frame" [1]. In general, experiments in narrowband environments have shown that electronic systems appear to be the most vulnerable to radiated fields in the frequency band between 0.2 and 5 GHz. This bandwidth of common vulnerability is often referred to as high-power microwaves (HPM).

In the second category, a wideband environment can be described as "one in which a time domain pulse is delivered, often in a repetitive fashion. The term 'wideband' indicates that the energy in the waveform is produced over a substantial frequency range relative to the 'center frequency'" [1]. Furthermore, to better describe various wideband waveforms, subcategories have been defined based on the bandratio of a waveform.

To characterize wideband waveforms in terms of bandwidth, four definitions have been proposed for bandwidth classification based on the frequency content of the IEME spectral densities [2]. These bandwidth classifications are narrowband, moderate band, ultramoderate band, and hyperband, where this terminology is consistent with the IEC 61000-2-13 Standard, "EMC, high-power electromagnetic (HPEM) environments radiated and conducted (draft)." Table I provides the classification of IEME based on bandwidth. The bandratio br is defined as:  $br = \frac{f_h}{f_l}$ , where  $f_h$  is the upper frequency limit and  $f_l$  is the lower frequency limit of the wideband waveform.

Band type	Percent bandwidth $pbw = 200 \left( \frac{br-1}{br+1} \right)$ (%)	Bandratio br
Narrow or hypoband	< 1%	< 1.01
Moderate or mesoband	$1\% < pbw \le 100\%$	$1.01 < br \le 3$
Ultra- moderate or sub- hyperband	100% < <i>pbw</i> < 163.4 %	$3 < br \leq 10$
Hyperband	163.4% < <i>pbw</i> < 200%	$br \ge 10$

Table I. IEME classifications based on frequency content of the IEME spectral densities (from [2]).

In terms of system vulnerabilities, the narrowband threat can be described as one of very high power in which the electrical energy is contained in a narrow frequency band. Comparatively, the wideband threat can be described as one of much less power in which the energy is spread out across many frequencies. Damage is much more likely to occur to electronic systems in the narrowband case, but vulnerabilities are easier to identify in the wideband case [1]. Another way to characterize IEME attributes produced by an HPEM source is to "examine the electric field (E-field) strength at a specified distance from the source, the frequency agility of the source, the duration and repetition rates for pulsed sources, and the burst lengths." As an example of this type of characterization, Table II provides the aperture E-field and the far-field voltage for two antenna power levels for an assumed aperture area of  $A=10 \text{ m}^2$ . From Table II, the electric field levels as a function of frequency and range can be estimated, leading to the results shown in Table III. From these results, consideration can be given to the possible effects that can be induced on illuminated systems at the various ranges and which frequency range will be likely to cause the most damage.

Table II. Aperture fields and far voltages. This table shows the aperture E-field and the far voltage for two antenna power levels for an aperture area of  $A=10 \text{ m}^2$  (from [2]).

0.5	Pea	ık Pow	er = 2l	кW	Peak Power = 20			) MW	
Qty.	0.5	1	2	3	0.5	1	2	3	
	GHz	GHz	GHz	GHz	GHz	GHz	GHz	GHz	
Aperture field $E_o$	274	274	274	274	27.4	27.4	27.4	27.4	
	V/m	V/m	V/m	V/m	kV/m	kV/m	kV/m	kV/m	
Far voltage <i>r E<sub>f</sub></i>	4.57 kV	9.13 kV	18.27 kV	27.40 kV	457 kV	913 kV	1.83 MV	2.74 MV	

Table III. Range of radiated E-field at various frequencies and two different power levels. This can help to identify frequency ranges that are likely to cause the most damage (from

2	1
	)

Frequency	Range	Antenna aperture of 10 m <sup>2</sup> and output power of 2 kW	Antenna aperture of 10 m <sup>2</sup> and output power of 20 MW
500 MHz	300m 1km	15.23 V/m 4.57 V/m	1.52 kV/ m 457 V/m
	300 m	30.43 V/m	3.04 kV/m
1 GHz	1 km	9.13 V/m	913 V/m
2 GHz	300m	60.90 V/m	6.09 kV/m
2 GHZ	1km	18.27 V/m	1.83 kV/m
3 GHz	300m	91.33 V/m	9.13 kV/m
	1km	27.40 V/m	2.74 kV/m

A second way to classify IEME is in terms of source technology. The sophistication and technologies required in producing an EM environment can vary in level such as low, medium, and high-tech generator systems. A low-tech HPEM source is characterized by having a marginal performance, minimal technical capabilities, and is easily assembled and deployable. A medium-tech system will most likely require the skills of an electrical engineer, along with acquiring fairly sophisticated components to modify into an HPEM source, such as a commercially available radar. A high-tech HPEM source would require specialized and sophisticated technologies to develop and may be used to cause severe damage to specific targets. Giri et al. [2] provides detailed examples for each sophistication level of source technology.

A third IEME classification approach is to classify the IEME by the type of effects the environment might have on a system. These effects could include generating noise in a receiver, sending false information to a receiver, affecting the logic state of an electronic component (transient upset), or permanent damage. More details on these upset effects are provided in [2].

#### **1.1.2 Worldwide Capabilities to Generate HPEM Waveforms**

To provide a general idea of capabilities that exist to generate HPEM waveforms, a quick overview of four European HPM narrow-band test facilities is provided. These facilities are used to study the technical feasibility of HPM source technologies, along with assessing RF susceptibility of electronic systems, RF interference coupling behaviors, and RF induced effects [3].

The first test facility overview is that of the Swedish Microwave Test Facility (MTF), which was designed to test aircraft against high-intensity radiated fields. The

characteristic parameters of the MTF are summarized in Table IV. It should be noted that not all of the maximum characteristics within Table IV can be attained simultaneously.

Radar Band	L	S (PCS)	С	Х	Ku
f (GHz)	1.30	2.86	5.71	9.30	15.00
Max. Average power (kW)	49	20	5	1	0.28
Max. power (MW)	25	20 (140)	5	1	0.25
Max. PRF (pps)	1000	1000	1000	1000	2100
Max. Pulse duration (µs)	5	5 (0.4)	5	3.8	0.53
Epeak@15 m (kV/m)	30	30 (80)	17	10	6

Table IV. Characteristic parameters of the MTF (from [3]).

PCS: Pulse Compression System

A second high-power microwave test facility worth evaluating is the Orion HPM test facility. Orion is located in the UK and uses four tunable magnetrons to generate HPM radiation over a tunable bandwidth of 1 to 3 GHz. The specifications for Orion are outlined in Table V [3].

Parameter	Specification		
Peak power (Pulse Power System)	5 GW		
HF-Source	Magnetron		
Frequency	1 – 3 GHz		
Pulse duration	100 – 500 ns		
PRF	Single Shot to 100 Hz		
Burst Duration	10 s (Maximum)		
Inter Burst Delay	8 minutes (Minimum)		

 Table V. Characteristic parameters of Orion (from [3]).

Hyperion, located in France, is the third HPM test facility to be evaluated. Hyperion was designed to test systems such as airplanes against homogeneous microwave beams and has a continuously tunable bandwidth from 0.72 to 3.0 GHz. The characteristic parameters for Hyperion are shown in Table VI.

Parameter	Specification		
HF-Source	Magnetron		
Frequency	1.3 – 1.8 GHz 2.4 – 3.0 GHz		
Pulse duration	100 ns		
Epeak	60		
HF-Source	Reltron		
Frequency	0.72 – 1.44 GHz		
Pulse duration	200 ns		
PRF	1 Hz		
Epeak	40 kV/m		

Table VI. Characteristic parameters of Hyperion (from [3]).

Supra is the fourth HPM test facility looked into, and it is located in Germany.

The Supra test chamber accommodates the testing of full size cars, small tanks, or

shelters. Table VII provides the characteristic parameters of Supra.

Parameter	Specification
HF-Source	4 Super Reltrons (8*)
Frequency	0.675 –1.44 GHz (3 GHz*)
Pulse Duration	> 300 ns
Epeak @ 15 m	70 kV/m (45 kV/m *)
RF Peak Power	400 MW – 200 MW (100 MW *)
PRF	10 Hz
Max. Shots / Burst	100
3dB Illumination Area	$12 m^2 (9 m^{2*})$
* 2005 Upgrade	

Table VII. Characteristic parameters of Supra (from [3]).

When it comes to further developments in HPM test facilities, the maximum generated power that is reached can be attributed to a combination of different limitations. These limitations are the result of limiting parameters such as RF breakdown, beam guidance and focusing, and cathode design. The cathode is one of the most critical components of an HPM source and its optimization has been the primary focus of recent research activities [3].

Examples of various wideband sources are provided by Prather et al. [4], along with a discussion on the limitations of wideband test facilities. For wideband testing, various advantages and limitations exist between indoor test facilities and outdoor testing. Suitable indoor wideband test facilities include anechoic chambers, two-conductor transmission lines, and transverse electromagnetic (TEM) cells. For an anechoic chamber, the primary limitation is that they usually cannot accommodate an ultrawide signal in the low-frequency band. For a two-conductor transmission line, efficient use is made of generator voltages, but radiating fringe fields may cause problems for nearby electronics or personnel. A three-conductor transmission line can be used to reduce the fringing fields from the two-conductor setup and a TEM cell can be used when absolutely no radiation from the experiment is allowed.

By acquiring a proper frequency clearance, wideband HPM testing can also be performed on an outdoor test range [4]. Outdoor ranges are preferable for wideband HPM testing because they provide the most realistic environment for the source and the device under test.

Radiated IEME has been the primary topic of this section, but IEME signals can also be conducted. These conducted signals are a potential threat to electronic systems connected to power lines and communication lines. From outside a building, the HPEM conducted pulsed voltages and currents can be transmitted to the inside of a building and disrupt the electronic equipment. Additionally, the conducted HPEM signal can be

directly injected onto a transmission line or it can be coupled onto the line from a radiated HPEM signal [3]. The coupling process as applied to cables and systems will be described in the next section, where radiative and conductive coupling will both be covered.

## **1.2** The Coupling Process as Applied to Cables and Systems

When applying a disruptive waveform into a system, two primary delivery methods exist: radiated and conducted. Through radiated fields, frequencies above 100 MHz tend to penetrate through poor shielding and couple into the systems most efficiently. Thus, fields in this upper frequency band, which includes HPM, are of primary concern. On the other hand, conducted signals below 10 MHz are of primary concern. This is because a conducted signal propagates more efficiently at lower frequencies compared to higher frequencies [1].

New propagation models for electromagnetic waves along uniform and nonuniform cables were introduced by Haase et al. [5]. Having knowledge of and being able to mathematically describe coupling paths of EM energy is an important area in HPEMs. An extension to the usual transmission-line theory, the transmission-line super theory (TLST), can be used as a way to achieve the mathematical description of the coupling paths.

To provide an overview of TLST, Haase et al. [5] explain the derivation of the generalized telegrapher equations and TLST by dividing the primary procedure into three parts. "First, the mixed-potential integral equation is set up... Second, a trial function for the current is introduced... Third, these integral equations are solved iteratively to calculate the parameters and source terms for an actual transmission-line geometry" [5].

This method can achieve acceptable results at a fraction of the time needed by other timedomain methods. By solving the generalized telegrapher equations, the currents and fields that propagate along the transmission line can be calculated. Examples that demonstrate the capabilities of the TLST have successfully demonstrated that the calculations agree well with experimental data.

In the EM interaction process, EM topology presents a fundamental concept for system protection. For the EM interaction process, the illumination of a system in which the waveform optimally couples into critical circuits of interest also needs to be addressed. First off, it is important to note that the waveform reaching a critical circuit is generally different from the waveform that was originally incident onto the system. Furthermore, the use of norms can maximize the ratio of the circuit waveform to the environmental waveform. Lastly, electronic systems tend to be built in dimensions that resonate around 1 GHz, indicating that frequencies near this value are important for IEMI [1].

As an introduction to EM topology, an overview of EMEC, an EM simulator based on topology, provides a good starting point. EMEC utilizes a graphical user interface to give the analysis of a system based on a topological description. Its primary application is the computation of responses due to radiated and conducted disturbances in complex systems. In addition, it can separately calculate shielding effectiveness for volumes, compute cable parameters, or analyze lumped element circuits. Figure 2 shows an example layout in the EMEC user-interface at the overall system level, Figure 3 shows the user-interface for the cable parameter module, and Figure 4 shows the user-interface for the circuit simulator module [6].

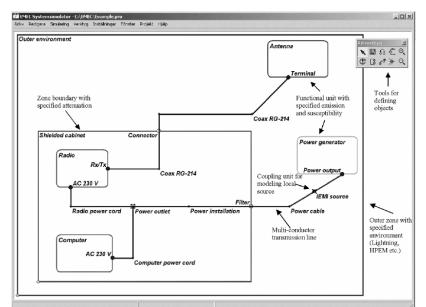
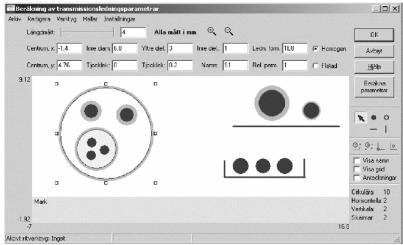
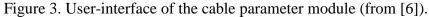


Figure 2. User-interface of the EMEC system simulator (from [6]).





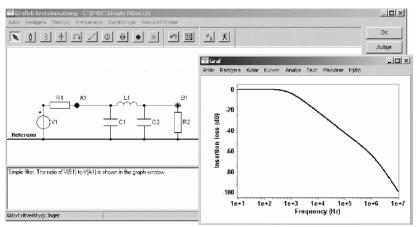


Figure 4. User-interface of the circuit simulator module (from [6]).

To further address the theory of EM topology, Parmantier [7] provides an overview of numerical simulation capabilities for the modeling of an entire system. First, a system-level analysis is investigated, where EM topology is shown to provide a guideline to performing a system's topological analysis. Along with the topological analysis of a system, Parmantier further discusses appropriate techniques to use in order to combine several specific numerical tools and broaden the scope of the entire system simulation. Parmantier concludes by addressing statistical trends and how they can help to identify future modeling challenges.

In order to withstand the effects of various EM threats, EM topology theory was developed to formalize the design of electrical systems. This led to the development of the topological shielding diagram, which provides a description of how the EM signals propagate within a system between defined volumes and surfaces that are each labeled with a relative shielding level. Figure 5 depicts an example of a topological shielding diagram [7].

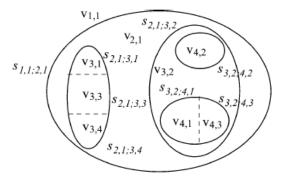


Figure 5. Topological shielding diagram. Volumes and surfaces are each labeled with a relative shielding level to provide a description of how the EM signals propagate within a system (from [7]).

Parmantier also explains how the "good shielding approximation" (GSA)

provides an approximate description of how the EM field flux behaves inside the system.

The GSA "supposes that the signal generated in an external volume can generate

interference inside an inner volume, but the reaction of the EM interference induced inside this volume on the external volume can be neglected" [7]. An interaction sequence diagram, shown in Figure 6, can be used to summarize the general EM interaction within the entire system. In the diagram, the signal flow of the flux of interference from the outside to the inside is represented by the directed branches.

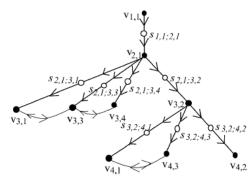


Figure 6. Interaction sequence diagram. The directed branches represent the signal flow of the flux of interference from the outside to the inside (from [7]).

Using the interaction sequence diagram, the network topology of a system can be deduced. The topological network corresponding to Figure 6 is shown in Figure 7. In this diagram, a junction is associated with each volume node and surface node, where response quantities are described using the Baum-Liu-Tesche (BLT) network equations described by Radasky et al. [1].

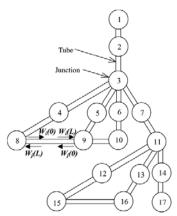


Figure 7. Example of the topological network associated with the interaction sequence diagram of Figure 6 (from [7]).

Essentially, EM topology establishes a guide for chaining calculations together. For each separate calculation involved in the topology chain, there are three main types of tools available for EM numerical simulations. The first type of available tools are 3-D numerical codes that solve EM scattering problems based on the system geometry. First, this includes volume techniques such as the Finite-Difference-Time-Domain (FDTD) method or the Finite Element Method (FEM). These techniques take the entire volume of the calculation and mesh it into volume cells. Limitations to these methods are due to the absorbing boundary conditions that are required to simulate an infinite medium.

Another type of 3-D numerical modeling code involves surface techniques, such as the Method of Moments (MoM). In surface techniques, only the surfaces of the diffracting object are meshed. Limitations for these techniques are the calculations, which are made on a frequency by frequency basis. In addition the size of the system matrix that is to be inverted increases as the square of the number of unknowns.

A third technique that involves 3-D numerical modeling code use what are called asymptotic techniques. These are based on an asymptotic formulation of Maxwell's equations when the frequency is much greater than the size of the object. Equations for these techniques combine methods such as the physical theory of diffraction (PTD) with ray techniques such as geometrical optics (GO) or the uniform theory of diffraction (UTD). Additionally, there are multiple domain techniques where Thevenin equivalents are determined for the network applications [7].

The second type of available tools are cable network tools. These tools apply to the topological shielding level associated with cabling, where a multiconductor transmission line network (MLTN) is used as the basic model. For MTLNs, there are two

primary aspects: 1.) The sources are distributed along the wiring with different amplitudes, and 2.) Cross coupling is an important issue to account for to ensure it does not contaminate "clean" EM zones in the system. Important factors that need to be accounted for in a cable network include: 1.) the frequency dependence of the electrical parameters, 2.) The existence of inhomogeneous propagation media such as dielectric insulators, and 3.) The independence of the model computation time from the length of the cable. This indicates that the most appropriate equations are ones that are based on a frequency formulation, such as the BLT equation for MTLN [7].

The third type of available tools are electrical circuit tools. Calculations for electrical circuit tools are limited to the input of the equipment and internal topology is excluded. These types of tools include circuit simulators such as SPICE and are usually restricted to finding only equipment responses [7].

Overall, the EM topology design of a usual system makes it difficult to use available numerical tools because of their limited capabilities. The frequency range required for analysis is a common application limit in these numerical techniques. The analysis methodology is still in a validation stage, especially at the higher frequencies [7].

Finally, another model for understanding the coupling of electromagnetic energy with systems and facilities is the Random Coupling Model (RCM) developed at the University of Maryland, which was not mentioned in the Special Issue. The RCM is a method for making statistical predictions of induced voltages and currents for objects and components contained in complicated enclosures and subjected to IEMI<sup>1</sup>.

<sup>&</sup>lt;sup>1</sup> For additional information on the Random Coupling Model, see

http://www.cnam.umd.edu/anlage/RCM/index.htm

#### 1.3 The Effects of IEMI on Equipment, Systems and Communications

Chapter 1.3 provides an overview on the susceptibility levels of electronic equipment and systems. Significant experiments have been performed that test the response commercial equipment has to narrowband and wideband threats. In the range of 1-10 GHz, tests seem to indicate that malfunctions occur at lower field levels at lower frequencies. These experiments are typically performed by directly radiating the equipment under test with EM energy. Additionally, it should be noted that most of these experiments did not include a thorough examination on the effects of polarization and angle of incidence. Also, experiments where narrowband voltages are injected into the grounding system of a building have shown to cause significant malfunctions to the equipment inside [1].

The investigation by Camp et al. [8] on the prediction of breakdown behaviors of microcontrollers under EMP/UWB impact will be the only discussion covered in detail in this section. This is because this investigation directly pertains to the EM topology (described in Chapter 1.2) that the microcontroller instruction susceptibility research of Chapter 3 falls under. Camp et al. provides data primarily on the radiated coupling of HPEM to microcontroller devices, whereas the microcontroller instruction susceptibility research in Chapter 3 focuses more on using conducted coupling methods to further understand the internal upset mechanisms inside of a microcontroller. Camp et al. [8] performs experiments on three different microcontroller systems to measure their susceptibility against a transient electromagnetic field threat. The purpose of this is to determine how different circuit parameters influence the RF coupling and cause different levels of breakdown effects.

To begin the investigation [8], the Breakdown Failure Rate (BFR), the

Breakdown Failure Probability (BFP), the Destruction Failure Rate (DFR) and the Destruction Failure Probability (DFP) are initially defined. These parameters are used to describe the different failure effects, where breakdown implies no physical damage is done to the system and destruction implies physical damage where the system will not recover without repair or replacement. Furthermore, BFR and DFR are estimators of the BFP and DFP. In terms of the number of breakdowns ( $N_{Breakdown}$ ), number of destructions ( $N_{Destruction}$ ), and number of pulses ( $N_{Pulses}$ ) applied, these quantities are defined as follows:

$$BFR = \frac{N_{Breakdown}}{N_{Pulse}},\tag{1}$$

$$BFP = \lim_{N_{Pulse} \to \infty} BFR, \tag{2}$$

$$DFR = \frac{N_{Destruction}}{N_{Pulse}}$$
, and (3)

$$DFP = \lim_{N_{Pulse} \to \infty} DFR. \tag{4}$$

These quantities follow the principal behavior shown in Figure 8. To further define system susceptibility, four more parameters are introduced. The Breakdown Threshold (BT) and Destruction Threshold (DT) specify the electric field strength, where the BFR and DFR reach 0.05, respectively. The Breakdown Bandwidth (BB) and Destruction Bandwidth (DB) specify the span in which the BFR and DFR change from 0.05 to 0.95, respectively.

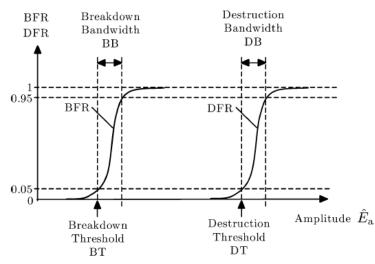


Figure 8. BFR and DFR (or BFP and DFP) principle behavior and definitions (from [8]).

To analyze the susceptibility of microcontrollers, three different microcontrollers are incorporated into the test that feature a RISC architecture, high-speed CMOS processor technology, 32x8 general purpose working registers, an on-board flash, and an on-board EEPROM. The general microcontroller test setup, along with the test variables to be modified, are shown in Figure 9. Additionally, during the test, the microcontrollers are executing a program that changes between two different states. The flow diagram for the microcontroller test program is shown in Figure 10. The purpose of the two states is to monitor the microcontrollers for a self-reboot, which is not possible to observe through any other method [8].

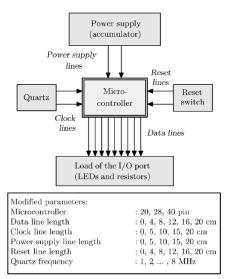


Figure 9. Microcontroller test setup. This shows how the bus line lengths are modified throughout the experiment and the quartz frequency test range (from [8]).

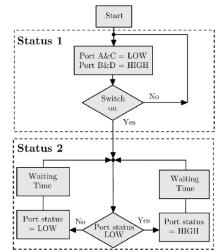


Figure 10. Two-state flow diagram for the microcontroller test program (from [8]).

A basic reference configuration for the microcontroller setup is defined for the measurements. For this reference setup, the clock, data, reset, and power-supply lines are at a minimum length and the clock rate is set to 1 MHz. The susceptibility is then determined for different port states (LOW and HIGH) as the signal lines are extended incrementally from 0 to 20 cm and the clock rates are changed incrementally from 1 to 8 MHz [8].

Analyzing the experimental results, Camp et al. report that the effect of the port state (HIGH/LOW) had little influence over the susceptibility of the microcontrollers. Regarding the effect of different signal line lengths, though, the results greatly varied in susceptibility levels between the data, clock, power supply, and reset line length. The results for the variation in BT and BB at each signal line as the data line length changes are shown in Figure 11 (a) and (b), respectively. By extending the length of the signal lines, the transfer function is enhanced, resulting in an increase in induced currents and voltages. Basically, the longer signal line lengths allow for more of the radiated energy to couple into the circuitry of the microcontroller.

Also, the variation of the clock rate from 1 MHz up to 8 MHz resulted in no effect on the BT or BB [8]. Table VIII summarizes the susceptibility level each parameter had on the influence of BT and BB [9]. The variation in the reset line length proved to be the most susceptible parameter.

When it comes to the effect of the pulse shape, the influence on breakdown behavior is very high. Basically, this influence is caused by the spectral energy distribution of the different pulses. Electronic systems at different frequencies have a stochastical distribution of susceptibility levels. Lastly, a larger BB is going to be associated with a pulse that has long rise times compared to a pulse with short rise times. The discussion by Camp et al. [8] concludes by describing statistical methods that can be used in the prediction of the microcontroller breakdown behavior based on the previously described parameters.

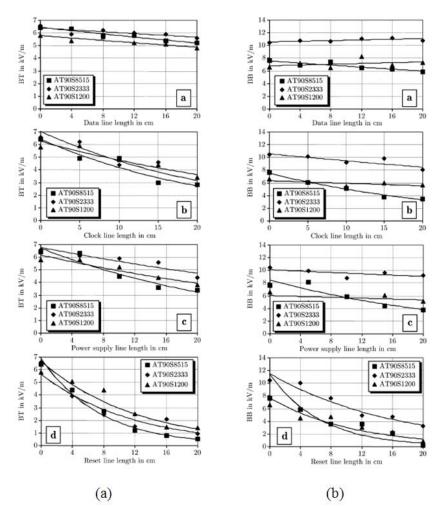


Figure 11. UWB test pulse: (a) BT for three microcontrollers with various signal line lengths. (b) BB for three microcontrollers with various signal line lengths (from [8]).

	Data Line Length	Reset Line Length	Osc. Line Length	Power Supply Line Length	Clock Rate	Type of Controller
вт	Low	High	Medium	Medium	None	Low
BB	None	High	Low	Medium	None	High

Table VIII. Susceptibility parameter influence on BT and BB (from [8]).

In addition to the microcontroller susceptibility work, Nitsch et al. [9] provide an overview of the susceptibility of a number of common electronic devices. These devices include computer networks, computer systems, microprocessor boards, microcontrollers, and basic integrated circuits (ICs). Susceptibility levels of these devices are determined

for various EM threats such as electromagnetic pulses (EMP), UWB pulses, and HPM pulses. Table IX summarizes the susceptibility level BT for the various equipment under test (EUT). Generally, the susceptibility level trends lower as the device complexity increases.

EUT	UWB in kV/m	EMP in kV/m	HPM in kV/m	
Logic Devices	25 (75)	120		
Microcontroller	7.5	42		
Microprocessor Boards	4	25	0.2	
PC Systems	12			
PC Networks	0.2	0.5		

Table IX. Susceptibility levels BT (DT). A summary of the BT (DT) that various electronic devices have when disrupted by UWB, EMP, and/or HPM signals (from [9]).

For further information on the effects IEMI can have on electronic systems, a vast amount of research studies and journal articles exist on the topic. To better understand the disruptive effects IEMI can have on personal computers, Hoad et al. [10] present an overview on the trends found in EM susceptibility of information technology (IT) equipment. Bäckström and Lövstrand [11] discuss susceptibility results for a number of electronic systems, including missiles, radios, cars, telecom stations, and generic electronic objects. For an in-depth study on conducted IEMI threats, Parfenov et al. [12] discusses conducted threats associated with commercial buildings. For communication devices, Jeffrey et al. [13] presents an investigation into using IEMI to disrupt and severely degrade Ethernet communication while still maintaining complete computer functionality in all other aspects.

By understanding the susceptibility levels that various electronic systems have to different EM threats, an understanding of the upset mechanisms may be achievable. An

understanding of the upset mechanisms will result the development of more advanced and effective protection concepts.

### 1.4 Protection, Measurements and Standards

Regarding protection concepts, Chapter 1.4.1 provides an overview of how various security measures can reduce and provide specific protection against IEMI threats. Key aspects that need to be considered in order to design protection into a system include: 1.) Distance, 2.) Shielding, 3.) Penetration Control, 4.) Resonance Reduction, 5.) Fault-tolerant Computation, and 6.) Circumvention [1].

In addition to HPEM protection concepts, Chapter 1.4.2 addresses IEMI standardization. Currently, there are two major IEMI standardization efforts underway. The first effort is being performed by the International Electrotechnical Commission (IEC), assigned to Subcommittee 77C, covering environment, protection, and test standards for commercial equipment that might be exposed to HPEM. The second effort has begun in the IEEE EMC society to develop standard practices to protect publicly accessible computers [1].

#### **1.4.1 IEMI Protection Concepts**

Regarding IEMI protection concepts, Weber et al. [14] investigates various linear and nonlinear filters that could possibly be used to suppress ultrawideband (UWB) pulses. Because of the broad frequency spectrum of these signals, UWB pulses have a very high probability to hit the resonant frequency of an electronic system, thus disrupting or destroying the system. It is therefore necessary to address whether traditional protection concepts provide adequate protection when it comes to UWB

signals with significant amplitudes, picosecond rise times, and pulse durations of a few nanoseconds.

In the discussion given in [14], different suppression devices are distinguished as being applicable to low frequency transmission lines (i.e., power lines) or to high frequency transmission lines (i.e., printed circuit boards). For the low frequency case, Weber et al. addresses various advantages and limitations for available devices, which includes spark gaps, varistors, and feed through capacitors. In the high frequency cases, the article considers zener-diodes and bandpasses in microstrip techniques. The testing in both cases reveals that linear and nonlinear protection circuits are capable of reducing the energy by UWB signals. It is concluded that optimized protection against UWB signals can be achieved by utilizing a proper selection of linear filter structures and nonlinear elements on the system.

In another discussion, Weber et al. [15] investigates the various measurement techniques that exist for conducted HPEM signals. Essentially, different methods can be used to measure conducted transients. The use of inductive sensors, characterized by a transfer function, are initially addressed. These current sensing techniques are shown to provide differential behavior in lower frequencies, proportional behavior in mid frequencies, and identifiable limitations at higher frequencies. Other common methods discussed that are currently used include: shunts, magneto- and electro-optic sensors, and resistive and capacitive voltage dividers. These various methods tend to not be applicable to frequencies much greater than 1 GHz and also have high voltage limitations. To overcome this, Weber et al. concludes by introducing a new technique, the picoTEM

method, that can be used to measure conducted HPEM signals beyond the limitations of previous techniques.

## 1.4.2 IEMI Standards

When it comes to the development of HPEM standardization, two efforts are currently underway. The first effort is being performed by the IEC and the second effort is being performed by the IEEE EMC society. For the IEC, SC77 is the assigned subcommittee and operates under the following scope: "Standardization in the fields of electromagnetic compatibility to protect civilian equipment, systems, and installations from threats by man-made high-power phenomena including the electromagnetic fields produced by nuclear detonations at high altitude" [16]. Therefore, SC77 has been developing environment, protection, and test standards for commercial equipment that might be exposed to HPEM. These IEC standards are published in the following structure (Part 1-6, Part 9):

- Part 1: General. This section includes general considerations, definitions, and terminology.
- Part 2: Environment. This section provides a description of the environment and its classification.
- Part 3: Limits. This section includes emission limits and immunity limits.
- Part 4: Testing and measurement techniques.
- Part 5: Installation and mitigation guidelines.
- Part 6: Generic standards.
- Part 9: Miscellaneous.

For further information on these standards, brief descriptions of each section pertaining to the SC77 standard are provided by Wik and Radasky [16].

A second effort to look into standardization, the one started by the IEEE EMC society, has also been developing standard practices to protect publicly accessible computers from IEMI [1]. Protection guidelines and tests are expected to be defined as a part of this effort.

#### Chapter 2 Microcontroller Overview and Previous Experiments

With an understanding of the IEMI threat provided in Chapter 1, Chapter 2 provides background research and experiments into the effects IEMI has on microcontrollers. First off, an overview of two 8051-core microcontrollers is provided in Chapter 2.1. Next, a review of previous research on microcontroller upset mechanisms is provided in Chapter 2.2. Chapter 2.1 addresses how an instruction is accomplished, explaining the details of a standard 8051-core machine cycle. The two 8051-core microcontrollers discussed in detail are the ATMEL AT89S2051 (S2051) and the ATMEL AT89LP2052 (LP2052). The key difference between these two 8051-core architectures is that the LP2052 utilizes an "enhanced" 8051-core that allows instructions to be processed in a parallel manner and the S2051 utilizes a standard 8051-core where instructions are processed serially.

The LP2052 will be used as the device under test (DUT) for the experiment outlined in Chapter 3, whereas the S2051 will be part of the Chapter 5 discussion in regards to follow-on experiments based on the LP2052 results presented in Chapter 4.

In Chapter 2.2, the earlier experiments were performed by the Air Force Research Lab HPM effects branch (AFRL/RDHE) [20]. These initial experiments were performed on the LP2052 and another microcontroller, the ATMEL MEGA8515L, which utilizes an AVR-core architecture and not the 8051-core architecture.

#### 2.1 Microcontroller Test Device Overview

The terms microcontroller and microprocessor tend to be used interchangeably with each other at times, but they are not the same device. It is important to distinguish the difference between the two devices and to provide an understanding of how a generic

microcontroller operates. For a microprocessor to be used in a complete microcomputer system, it would require additional external peripherals such as Read Only Memory (ROM), Random Access Memory (RAM), decoders, drivers, and a number of input/output devices. Basically, a microprocessor provides a means to build a complete digital system in a very flexible manner by not including these additional peripherals in the actual design. On the other hand, a microcontroller incorporates all the features found in a microprocessor, but also incorporates a number of features (i.e., memory, I/O interfacing, and various peripheral devices) to make a complete microcomputer system on a single IC chip. The differences between a microprocessor and a microcontroller are outlined in Table X [21].

No.	Microprocessor	Microcontroller				
1.	Microprocessor contains ALU, control unit (clock and timing circuit), different register and interrupt circuit.					
2.	It has many instructions to move data between memory and CPU.	It has one or two instructions to move data between memory and CPU.				
3.	It has one or two bit handling instructions.	It has many bit handling instructions.				
4.	Access times for memory and I/O devices are more.	Less access times for built-in memory and I/O devices.				
5.	Microprocessor based system requires more hardware.	Microcontroller based system requires less hardware reducing PCB size and increasing the reliability.				
6.	Microprocessor based system is more flexible in design point of view.	Less flexible in design point of view.				
7.	It has single memory map for data and code.	It has separate memory map for data and code.				
8.	Less number of pins are multifunctioned.	More number pins are multifunctioned.				

Table X. Differences between a microprocessor and a microcontroller (from [21]).

In a microcontroller, the internal processor accomplishes an instruction by performing the following actions: fetch, decode, execute, and store. For example, if the microcontroller were programmed to calculate a math based problem, the first step to accomplish this would be for the control unit to fetch the math problem's instructions and data from the memory. In the second step, the control unit would decode the instructions of the math problem and send the instructions and data to the Arithmetic Logic Unit (ALU). The third step would involve the ALU performing the calculation of the problem. Finally, in the fourth step, the result from the ALU would be stored in memory. The steps involved in a generic machine cycle are shown in Figure 12 [22].

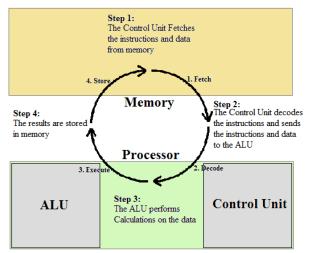


Figure 12. Machine cycle for processing instructions inside a microcontroller (from [22]).

Both the S2051 and the LP2052 microcontrollers follow a Harvard architecture for memory organization. The Harvard architecture is a computer architecture with physically separate storage and signal pathways for instructions and data [27]. Figure 13 provides a block diagram for a Harvard architecture [28].

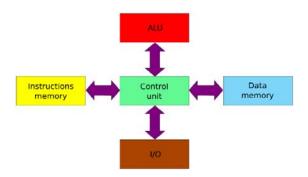


Figure 13. Harvard architecture block diagram. The memory banks, arithmetic logic unit (ALU), and inputs/outputs (I/O) each have a separate signal pathway to the control unit (from [28]).

The S2051 and the LP2052 microcontrollers are both descendants of the Intel 8051 microcontroller, utilizing a similar generic architecture as part of the 8051-core family (also known as the MCS-51 family), which is shown in Figure 14 [23]. The core architecture of the S2051 is shown in Figure 15 [26]. It can be seen that it is only a two-port device which utilizes a flash memory instead of an Erasable Programmable Read-Only Memory / Read-Only Memory (EPROM/ROM) compared to the original 8051 microcontroller. The LP2052 is also a two-port device with flash memory, but the architecture is built around an "enhanced" 8051-core (proprietary) that is able to fetch more data bits per clock cycle compared to the standard 8051-core.

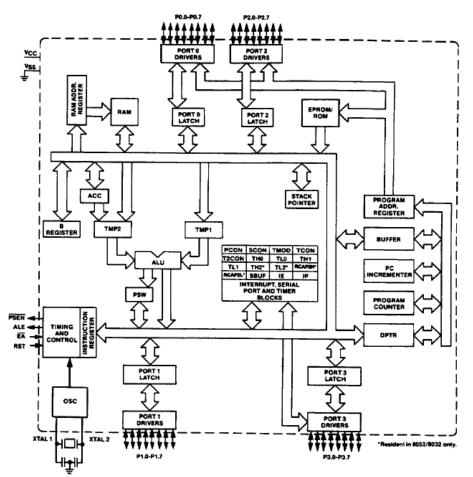


Figure 14. 8051-Core architecture. A standard 8051-core includes 4-ports and utilizes an EPROM/ROM (from [23]).

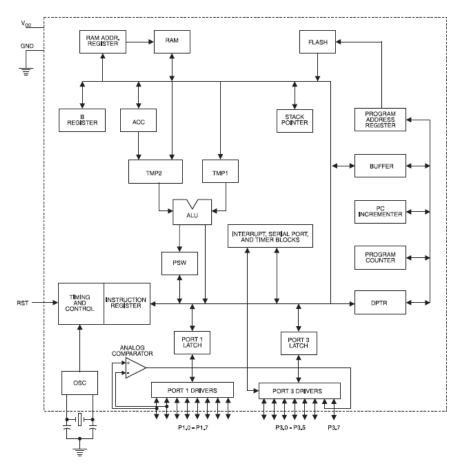


Figure 15. AT89S2051 core architecture. This is a variant of the 8051-core architecture, where it has only two-ports and utilizes a flash memory (from [26]).

For the S2051, a serial computational process is utilized where each instruction is executed entirely before a new instruction begins. This method of serial processing is how instructions are processed by standard 8051-core microcontrollers. For the S2051 and standard 8051-core microcontrollers, 1 machine cycle requires 12 clock cycles to execute, where a machine cycle is equivalent to 1 byte of data. Clock cycles within the machine cycle are grouped together between states and phases. One complete machine cycle (12 clock cycles) contains a total of 6 states, where each state contains two phases (or 2 clock pulses). This process is depicted in Figure 16 [23]. Typically, phase 1 handles the arithmetic and logic operations, whereas phase 2 handles internal register-to-register transfers [25].

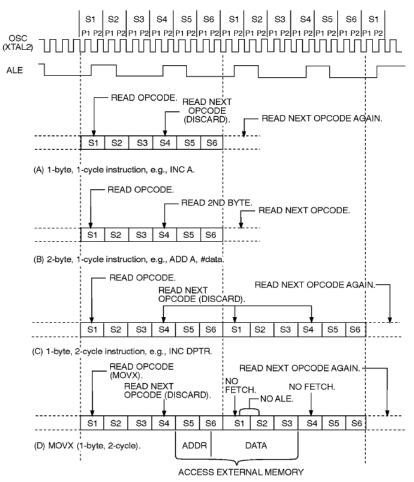


Figure 16. Standard 8051 serial instruction processing. A machine cycle contains 6 states, where each state contains two phases. Typically, phase 1 handles the arithmetic and logic operations and phase 2 handles inter-register transfers. (A) and (B) provide examples of assembly commands that take only 1 machine cycle to execute. (C) and (D) provide examples of assembly commands that require two machine cycles to execute (from [23]).

In contrast, the LP2052 can process 1 byte of data per clock cycle and can execute

an instruction while the next instruction is being fetched. This implies that instructions

only require between 1 to 4 clock cycles to fully execute. For standard 8051-core

architectures, including the S2051, instructions required 12, 24, or 48 clock cycles (1 to 3

machine cycles) to fully execute an instruction. Therefore, the LP2052 executes an

instruction with 6 to 12 times greater throughput compared to standard 8051s.

A comparison between the basic architectural structure of the classic 8051 and the

LP2052 is depicted in Figure 17. The LP2052 is fully compatible with the MCS-51

instruction set, but it utilizes an enhanced "Single Cycle 8051 CPU". The term "single cycle" is meant to imply that a single instruction cycle on the LP2052 is accomplished in one clock cycle as opposed to the standard 8051- core where one instruction cycle requires 12 clock cycles.

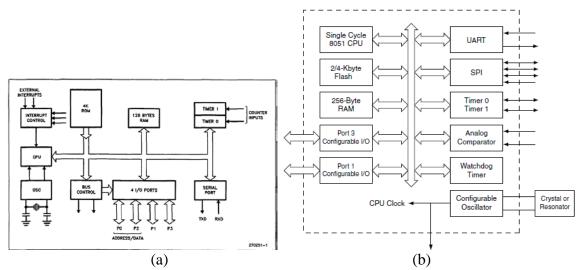


Figure 17. Architectural structure of the 8051-core compared to the architectural structure of the LP2052. (a) Block diagram of the 8051-core (from [23]). (b) Block diagram of the LP2052 (from [27]). Key differences of the LP2052 are that it is only a two-port device, utilizes a flash memory, and has an enhanced Single Cycle 8051 CPU. The term "Single Cycle" implies that an instruction cycle completes in one clock cycle compared to 12 clock cycles (from [23,27]).

Two factors can be attributed to the LP2052 core being identified as an

"enhanced" 8051 CPU: 1.) One instruction byte is fetched from the code memory every clock cycle, and 2.) A simple two-stage pipeline is used by the CPU to fetch and execute instructions in parallel. What this means is that while one instruction is being executed, the instruction that directly follows is being fetched from the memory at the same time. This parallel instruction processing is shown in Figure 18, and a single-cycle and a two-cycle ALU operation is shown in Figure 19 and Figure 20, respectively [27].

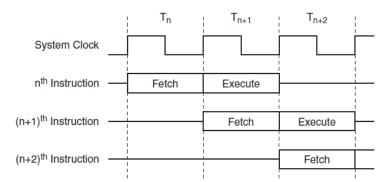


Figure 18. Parallel instruction fetches and executions (from [27]).

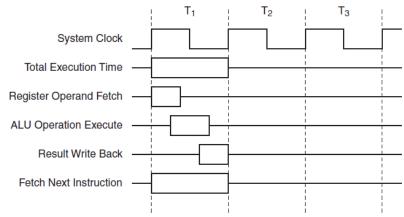


Figure 19. Single-cycle ALU operation (i.e. INC R0) (from [27]).

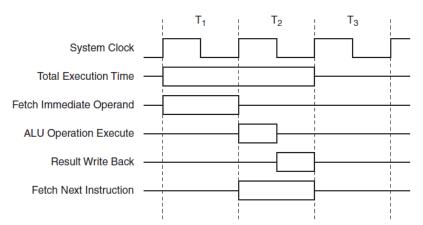
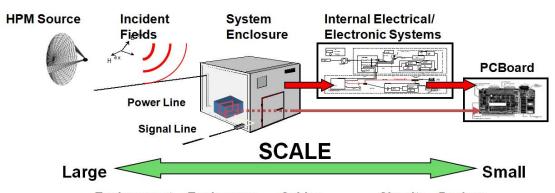


Figure 20. Two-cycle ALU operation (i.e. ADD A, #data) (from [27]).

# 2.2 Previous Microcontroller Upset Research Experiments

At Kirtland AFB, NM, AFRL/RDHE initiated microcontroller susceptibility experiments in 2009 as part of an effort to develop predictive models for HPEM upset effects on digital systems as a function of system, software used, and RF waveform parameters. As an intermediate objective, it was decided to develop a statistical model for RF upset on microcontrollers as a function of the specific assembler instruction and the incident waveform. Microcontrollers were selected as the DUTs because they represented an intermediate level in complexity between a single CMOS device and a complete digital system such as a personal computer (PC). Essentially, a microcontroller represents a complete, yet simple, digital system packaged into a single IC chip, but does not contain all of the additional wires and peripherals that are packaged into a PC [20]. Figure 21 illustrates how a microcontroller would be represented by a topological model as previously discussed in Chapter 1 [29].



**Environment Enclosures Cables Circuits Devices** Figure 21. Topological diagram for building a predictive model of a digital system. A microcontroller represents an intermediate level on the scale between a PC and single electrical devices (i.e., a PC includes an enclosure, cables, circuits and devices whereas a microcontroller only includes circuitry and devices) (from [29]).

For this effort, the two main objectives have been to: 1.) Build a mathematical model for predicting upset effects in microcontrollers exposed to incident radio frequency (RF) pulses, and 2.) To ascertain the validity of that model, refining it as appropriate, based upon results of experiments performed on selected microcontrollers.

In the first year of the microcontroller research, the effort started with the development of a probabilistic model for theoretically describing digital upset of the microcontroller as a function of RF pulse parameters and the assembly-instruction-

induced microcontroller signal streams. There are four relevant areas that impact the details of the model that have been constructed to date. The first area pertains to the mode of exposure of the microcontroller to the incident RF pulse: RF radiation field immersion or direct RF voltage injection into selected ports. The second area pertains to the type of signal stream being addressed – clock or data. The third area pertains to the characterization of the injected RF pulse, which is essentially a Gaussian modulated sine wave with the modulation envelope extending between voltage extremes. The fourth area pertains to the relative timing between the signal train and the onset of the injected RF pulse. This model continues to be developed and refined based upon the experiments performed on selected microcontrollers [30].

During the second year of the microcontroller upset investigation, four microcontrollers were selected to be used as DUTs to validate and refine the theoretical model based on direct injection experiments. These four DUTs were selected based on previous research into the immunity of digital electronics to transient pulses [31, 32]. This previous work investigated how a burst of 50 ns transient electrical pulses affected a simple 8-bit 8051 microcontroller while a single assembler instruction was repeatedly executed. The assembly instruction was two machine cycles long for a total of 24 consecutive clock pulses. The incident RF pulses were timed precisely to make them coincide with a specific state and phase of one of the machine cycles (also called a microinstruction) during the assembly instruction. The authors were able to determine an empirical susceptibility probability for each microinstruction, and were therefore able to predict the susceptibility for the entire assembly instruction by aggregating these

probabilities. These results are summarized by the model developed by Dietz [30] in Figure 22.

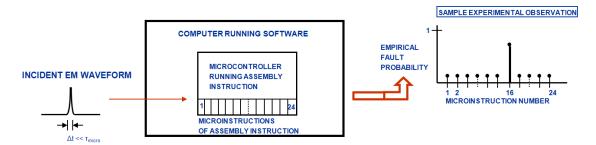


Figure 22. An incident waveform couples into a microcontroller. Based on the empirical susceptibility probability for each microinstructions, the susceptibility for the entire assembly instruction can be predicted (from [30]).

In this past research [31,32], the manufacturer or the precise microcontroller model used in the experiments was not identified other than it being compatible with the MCS-51 instruction set. As a substitute, two models of the 8051-core architecture produced by ATMEL were selected. Additionally, the AFRL investigation extended the research to be performed on another family of microcontrollers, the AVR-core family, and selected two models produced by ATMEL within this family.

For the 8051 microcontrollers, the AT89C2051 and the AT89LP2052 were initially selected as the test devices, but the AT89C2051 was recently replaced by the AT89S2051 model for the experiments (this had to do with compatibility/programming difficulties related to the AT89C2051). The second family of microcontrollers selected was ATMEL's AVR-core line, which included the ATTINY28L and the ATmega8515L. The AVR-core is based on Reduced Instruction Set Computing (RISC) architecture. Basically, an AVR-core can be characterized by having a Harvard Architecture, singlelevel pipelining (i.e., instructions are processed in parallel), short execution time, and a small, highly optimized instruction set [34]. Initial experiments have only been performed so far on the AT89LP2052 and on the ATmega8515L. The effects induced on these microcontrollers were explored by directly injecting them with RF signals (conductive coupling) while a simple binary counter program was executing. The value of the counter program was monitored at the output ports of the microcontroller, allowing for easy effects diagnosis. There are a number of locations where an RF signal can be injected into the microcontroller, but the initial experiments focused on injecting RF into the external clock line input.

Upset data was collected as a function of the RF voltage and pulse duration for when an induced RF signal was directly injected into the clock pin of the microcontroller. For both microcontrollers, experiments have helped to identify a frequency dependent susceptibility, where an increase in the injected peak voltage is required to cause an upset at higher RF carrier frequencies. Furthermore, various levels of RF effects were identified, ranging from minor disruptions to the counter program output value, all the way to a complete lockup of the microcontrollers. When a microcontroller end-state resulted in lockup, this was identified as being an upset state, where a power cycle was required to bring the microcontroller back to normal operation.

Simple initial models were built for these effects, addressing both the case where the onset of the RF signal has a known timing relative to the clock pulses and the case where the timing is unknown. These initial models are regularly refined based on experimental results [20]. Currently, for the AVR microcontroller family, experiments are still being performed on the ATmega8515L. In the most recent of these experiments, the RF waveform was synchronized to inject during precise target instructions on either

the clock line, various input/output lines, or the reset line. This investigation demonstrated that different target instructions have different levels of susceptibility.

The present experiments have started to investigate using software to map and understand microcontroller susceptibility. By determining various levels of susceptibility for instructions and the individual actions performed by the instruction, the individual actions can be related to different blocks within the functional layout of the microcontroller. The functional block can then be related to part of the physical layout of the microcontroller. This is represented in Figure 23 [29], and the experiment explained in Chapter 3 provides the basis and direction for this investigation.

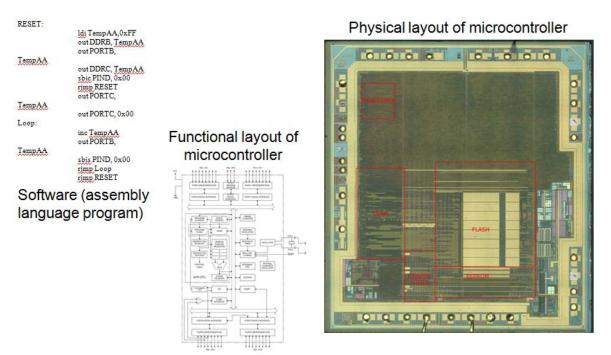


Figure 23. Use software to map and understand susceptibility. The individual actions that make up an instruction can be investigated for different levels of susceptibility. The actions can then be related to specific blocks of the microcontroller functional layout. Then, the blocks can be related to specific locations on the physical layout of the chip (from [29]).

For the experiments being performed on the 8051 family, the next step in the

experimental investigation is described in Chapter 3. A target instruction is divided up

into 9 sections of interest for the LP2052 microcontroller based on the parallel processing of an instruction cycle. This is to characterize the susceptibility of different actions or microinstructions within the target instruction and investigate whether it may be feasible to use software (assembly code) to map them to the internal core architecture.

#### **CHAPTER 3 METHODOLOGY**

## 3.1 Purpose and Objectives of Experiment

From Chapter 2, it can be seen that experiments to date have primarily been on a general characterization of how an induced RF signal affects a microcontroller when it is directly injected into the clock pin. These experiments have helped to identify a common state of upset in the microcontroller, a locked-logic upset state, but have not provided an in-depth investigation into the possible upset mechanisms. The purpose of this experiment is to investigate the susceptibility each individual instruction of a microcontroller has to a directly injected RF signal. By identifying the susceptibility of each instruction, the susceptibility of the internal microcontroller functions that process each instruction can possibly be identified and can lead to further insight on the upset mechanisms.

To perform the experiment, an RF signal was injected into the clock line input of a microcontroller and precisely synchronized to target a specific instruction at any one point during the instruction cycle. In general, a microcontroller instruction cycle accomplishes the following actions: 1.) Fetches an instruction from memory, 2.) Decodes the instruction, 3.) Executes the instruction, and 4.) Stores the results in memory [22]. The baseline target instruction will be the 'no-operation' command and its susceptibility will be compared relative to the susceptibility of all other target instructions.

The microcontroller used as the DUT is the ATMEL AT89LP2052 (LP2052) and is fully compatible with the MCS-51 instruction set utilized by a standard 8051-core architecture. The LP2052 processes instructions in a parallel manner, whereas standard 8051-core microcontrollers process instructions serially. As previously explained in

Chapter 2.1, serial processing implies that each instruction executes entirely before the next instruction begins. Parallel processing implies that multiple instructions may be executing at the same time within a pipeline. For the 8051-core architecture, this means that instructions processed in serial take 12, 24, or 48 clock cycles to complete an instruction, whereas the parallel processing in the LP2052 will only take 1 to 4 clock cycles to complete the exact same instructions.

The purpose of this experiment is to test the hypothesis that different moments in time of an instruction cycle of an LP2052 have different levels of susceptibility. Essentially, by breaking up an instruction cycle into multiple target locations, microinstructions within the target instruction will have different levels of susceptibility to IEMI. These results would agree with the German work previously mentioned in Chapter 2.2 [31,32] and would help to provide a basis for using software to map out susceptibility levels of the internal 8051-core architecture.

## **3.2** Microcontroller Programming and Target Instructions

On the LP2052 microcontroller, an up-counter operation was programmed into the flash memory using assembly code. By using assembly code to program the microcontroller, the exact state of the microcontroller can be calculated and determined based on the total number of clock cycles applied to the external clock input. The MCS-51 instruction set and the number of clock pulses required for each command for standard 8051-core microcontrollers and for LP2052 microcontrollers is provided in Appendix A.

In order to program the microcontroller with an assembly code, the program 'ASEM-51' version 1.3 for Windows (a freely provided, simple assembler) is used to convert the assembly file into a HEX file. Then, the 'MikroElektronika 8051-Flash'

program, the software provided with the Easy8051B Development Board, is used to load the HEX file into the flash memory of the microcontroller. This was a straightforward process to accomplish, where the instructions for each program explained how to perform each action in the file conversion and the flash programming.

Within the assembly code, a target instruction is programmed at a specific clock count location to be induced with an injected RF signal. For example, Figure 24 shows a disruptive RF signal being synchronized to clock pulse 6. Clock pulse 6 can be identified based on the assembly code used to program the microcontroller. With the target location identified for synchronization, the disruptive RF injection can be used to determine the susceptibility of the target instruction or a specific part of the instruction.

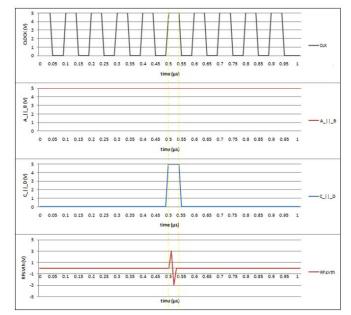


Figure 24. Example of how a target instruction is associated to a specific clock pulse. If the target instruction were located at clock pulse 6 (beginning at  $0.5 \ \mu$ s), an RF pulse is synchronized to inject at the exact target location within the target instruction.

For the experiment, the LP2052 is programmed with the assembly code shown in

Figure 25. In the first 5 clock cycles, the microcontroller is initialized and the first

instruction is being fetched. At clock pulse 10, the target command (a NOP instruction) is

being executed. The 14<sup>th</sup> clock cycle initiates the binary up-counter program. Following the 22<sup>nd</sup> clock cycle, P1.0 through P1.7 (port 1) have all been initialized to a count of 0b00000000 by the instruction 'MOV 144, #0' (this instruction sets the port 1 special function register to 0b00000000, where each bit corresponds to an output lead with P1.0 as the Least Significant Bit (LSB) and P1.7 as the Most Significant Bit (MSB), see Figure 27 (a)). After 6 more clock cycles, the counter increments to 0b0000001, beginning the up-count sequence. Following the first counter increment, each subsequent increment occurs every 9 clock pulses, continuing on in an infinite loop until the power source or clock signal is removed from the microcontroller under normal operation.

;LP2052, 5 clock c main:	ycles to initialize microcontroller
-	8 ;3 clock cycles
;Provide buffer time NOP ;1 Clock	e before target command, begins after 8 clock cycles Cycle
;Target command f NOP ;1 Clock	or RF injection, begins after 9 clock cycles Cycle
;Provide buffer time NOP ;1 Clock NOP ;1 Clock NOP ;1 Clock	Cycle
;Initialize Up-Coun	ter inputs and outputs, begins after 13 clock cycles
MOV 194, #1	;3 Clock Cycles
	;3 Clock Cycles
MOV 144, #0	;3 Clock Cycles, P1.0-P1.7 LEDs light up on development board following this command
;Up-Counter infinit	e loop
L_main0:	
	;2 Clock Cycles
	;2 Clock Cycles
	;2 Clock Cycles
SJMP L_main(	;3 Clock Cycles

Figure 25. Assembly code used to program the microcontroller. Clock cycle 10 corresponds to the target instruction for RF injection. After 13 clock cycles, an up-counter program is initialized. After 22 clock cycle, the binary up-counter enters into a continuous loop, incrementing every 9 clock cycles.

For the target instruction, 9 target locations have been defined for RF injection

based on the LP2052 instruction cycle shown in Figure 18 from Chapter 2.1. For each

target location, the RF pulse is synchronized to couple into the microcontroller for the

complete duration required to cover the location. The 9 target locations are shown in Figure 26, where they include the complete instruction cycle, the logic high, the logic low, and the transitions between the logic levels within the instruction cycle.

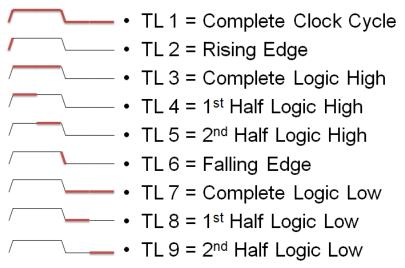
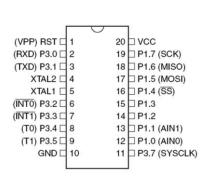


Figure 26. Based on the LP2052 parallel instruction cycle process, 9 different target locations have been defined to be injected with RF.

# **3.3** Experimental Setup and Configuration

For the LP2052 test device, a pinout of the microcontroller is shown in Figure 27(a) [27], and Figure 27(b) shows the microcontroller device mounted on to the Easy8051B Development Board. For the experiment, the RF signal is injected through the XTAL1 line, which corresponds to pin 5 on the microcontroller. XTAL1 is the external clock input, meaning that the RF signal is being conductively coupled into the circuit with the externally provided clock signal. The Easy8051B Development Board allows the chip to be easily programmed and also allows a means to verify the functionality of the microcontroller during normal operation and following RF injection.



LP2052 20-Pin µC





Easy8051B Development Board (b)

Figure 27. (a) Pinout of the LP2051 microcontroller. The microcontroller is in a 20-pin DIP package. (b) The microcontroller is mounted on the Easy8051B Development Board to provide an easy means for programming and evaluation.

To mount the microcontroller to the development board, a modified 20-pin DIP mount was created and is shown in Figure 28. The mount provides extended lead lines to the microcontroller to allow for easy RF injection and measurements. At the XTAL1 pin (pin 5), an oscillator bypass switch is incorporated. This switch is necessary to provide an external clock signal to the microcontroller other than the 10 MHz external oscillator clock that is built into the development board. Additionally, as a future option for experiments, a low value resistor (between 1 to 10  $\Omega$ ) can be placed in series with either the VCC line, the GND line, or both lines by properly setting the VCC switch or GND switch. This is so that average current measurements can be taken during normal operation and compared to the average current values when the microcontroller is induced into an upset state. Average current measurements were not taken throughout this experiment, so the VCC switch and the GND switch can be ignored.

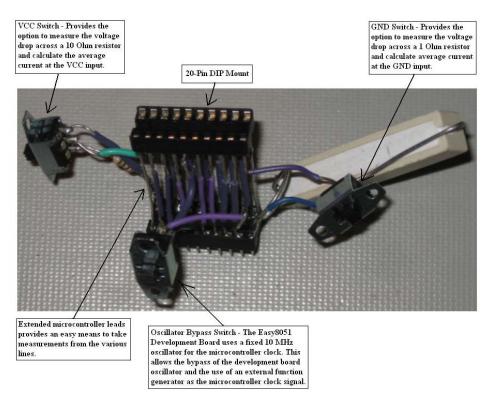


Figure 28. Modified 20-Pin DIP mount.

For the experiment, a schematic of the test setup is shown in Figure 29 and a photograph of the test setup is shown in Figure 30. The HP8116A Pulse/Function Generator is used to provide an external clock signal to the microcontroller. The function generator is used in the burst mode so that a specific number of clock pulses can be applied to the microcontroller. By knowing the total number of applied clock pulses, the final output state of the microcontroller can be determined (i.e., an up-counter program has been incremented to an expected output value associated with the applied burst of clock pulses, where it requires a specific number of additional clock pulses to increment the count to the next value). Additionally, the function generator's trigger output channel activates the DG535 4-CH Digital Delay/Pulse Generator.

On the DG535, the A  $\square$  B channel is used to activate the DPO3054 digital oscilloscope so it will collect measurement data on CH1 through CH4 from the beginning

of the clock signal burst. The C  $\square$  D channel is used to synchronize the RF signal injection to pulse for the duration of a specific target instruction and target location. The waveforms recorded by the oscilloscope include the clock signal with the coupled RF signal, the microcontroller system clock output (pin 11, labeled P3.7(SYSCLK) in Figure 27(a)), P1.0 (pin 12), and P1.7 (pin 19). P1.0 and P1.7 represent the Least Significant Bit (LSB) and the Most Significant Bit (MSB) outputs, respectively, from a programmed upcounter code on the microcontroller.

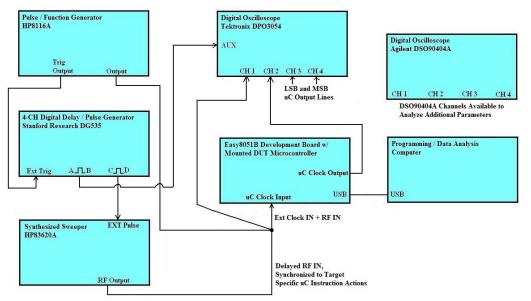
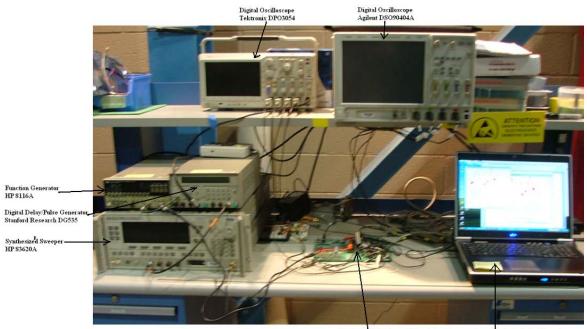


Figure 29. Schematic of test setup.



Easy8051B Development Board w Programming and bata Analyzing Computer Mounted DUT Microcontroller Figure 30. Photograph of the experimental test setup.

# 3.4.1 Overview of Test Equipment

# HP 8116A Pulse/Function Generator:

In the experiment, an HP8116A Pulse/Function Generator, shown in Figure 31, is used to generate an external clock signal and to trigger the DG535 digital delay pulse generator. The 8116A is used in the "External Burst" mode and is set to output a specific number of square wave pulses. For the experiment, a square wave is set to have a logic low at 0 volts, a logic high at 5 volts and to pulse at a frequency of 1 MHz. This square wave burst signal is used as the clock signal to operate the microcontroller. The "MAN" button triggers the burst output waveform, while also sending a trigger output signal to additional test equipment. Additionally, to send a single clock cycle and increment the microcontroller through each instruction, the "1 CYCLE" button can be used. This allows the full stepping through of an instruction to verify how many clock cycles are necessary until the next instruction begins execution.

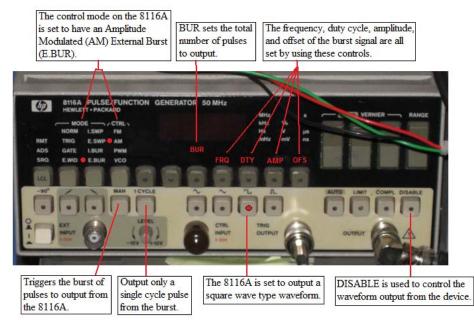


Figure 31. Photograph of the HP 8116A pulse/function generator used in the experiments.

# Stanford Research DG535 Digital Delay/Pulse Generator:

The Stanford Research DG535 Digital Delay/Pulse Generator (Figure 32), which is triggered by the burst output of the 8116A function generator, is used to trigger the oscilloscope for data collection and to synchronize the RF injection pulse to occur for a set duration during a specific target instruction. Channel A  $\square$  B is set to send a pulse output starting at 0 seconds (exactly when it is triggered) and stay high for a duration of 1 second. This is to ensure the DG535 is not triggered additional times during the 8116A burst signal. Additionally, channel A  $\square$  B triggers the oscilloscope and initializes the data collection at the beginning of the burst output. Channel C  $\square$  D is set to output a pulse beginning at the specific moment of a target location of the target instruction on the microcontroller.

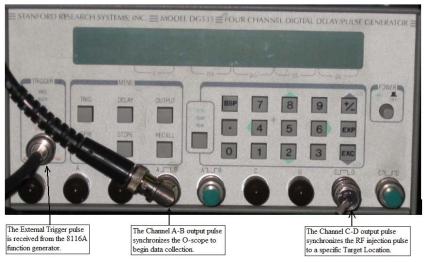


Figure 32. Photograph of the Stanford Research DG535 4-channel digital delay/pulse generator used in the experiments.

## HP83620A Synthesized Sweeper:

To generate the IEMI signal, an HP83620A Synthesized Sweeper (Figure 33) is used as the RF source. The injected RF signal is set as a continuous wave (CW) and fixed at a frequency of 50 MHz throughout the test experiment, while the power level is varied between shots as part of characterizing the instruction susceptibility. For the RF output, the C  $\square$  D channel on the DG535 is connected to the pulse input of the sweeper. The mode of the sweeper is set to external pulse, which means that while the C  $\square$  D is sending a pulse, the RF output of the sweeper will turn on for the full duration. When the C  $\square$  D is no longer a logic high value, the sweeper will no longer output an RF signal. The RF output signal is directly coupled into the microcontroller XTAL1 signal line, along with the external clock signal from the 8116A function generator.

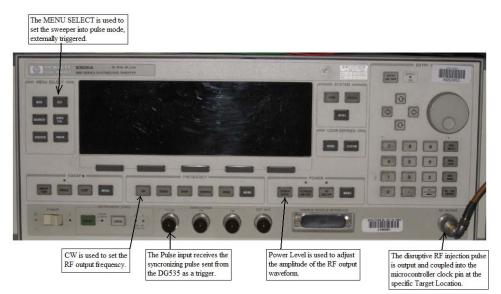


Figure 33. Photograph of the HP 83620A synthesized sweeper used in the experiments. *Tektronix DPO3054 Digital Oscilloscope*:

To collect waveform data, a Tektronix DPO3054 digital oscilloscope (Figure 34) is used. The scope is triggered by the auxiliary input (Aux In), where the DG535 A  $\square$  B channel triggers the oscilloscope. With the A  $\square$  B channel set to immediately output a one second pulse, the data collection begins when the clock burst is manually triggered from the 8116A function generator.

The primary data captured by the scope is the target clock pulse, which includes the coupled RF injection signal, and is captured on channel 1. Channel 2, 3, and 4 each monitor a separate output line on the microcontroller. Channel 2 monitors the system clock output, channel 3 monitors the P1.0 LSB output of the counter, and channel 4 monitors the P1.7 MSB output of the counter. The Agilent DSO90404A oscilloscope pictured in the test experiment is not used for this specific experiment and is therefore not discussed in detail.

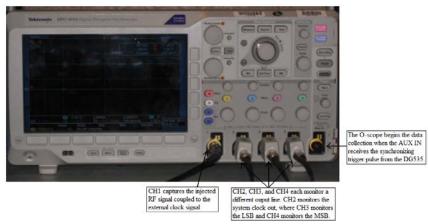


Figure 34. Photograph of the Tektronix DPO3054 digital oscilloscope used in the experiments.

## 3.5 Experimental Data Collection Procedures

To perform the experiment, the programmed LP2052 is mounted on the development board and set up with the equipment configured as previously explained. For taking shot data, the oscilloscope is triggered when the clock burst pulse is initialized, and the primary data is captured on channel 1. The data captured on channel 1 is that of the injected RF pulse coupled onto the external clock signal. For the external clock signal, the function generator is set to a fixed 999 clock pulse burst at a frequency of 1 MHz. With the set burst of clock pulses, the final output count of the up-counter under normal operation is at 0b01101100, requiring a single clock pulse to increment to 0b01101101. After applying an RF injection signal, the final counter value can be verified by applying one clock cycle at a time from the function generator to see if glitches occurred in the microcontroller operation (i.e., the counter is incremented past the expected value) or if an upset state has been induced.

When RF is injected into the clock signal line at a specific target location, disruptive effects to the counter output become more common as the RF power increases and approaches an approximate threshold value. When the RF power reaches the threshold (which happens to be probabilistic in nature), the injected RF pulse causes the microcontroller to freeze operation and no longer count or register applied clock pulses. When this occurs, the microcontroller is considered to be in an upset state.

To record the results for each shot, a data acquisition table is used. The data table keeps track of the important data necessary to analyze each RF injection shot, ranging from the specific target location to the average peak voltage of the injected RF signal, where an example of the data table is provided as follows:

ShotNumber	TargetLocation	TestDevice	RFFrequency-MHz	RFStartTime-us	RFStopTime-us	<b>RFTotalDuration-us</b>	RFAvgPk-Volts	RFMaxPk-Volts	Upset
1	1	LP2052-1	50	8.84	10.78	1.94	0.4671	0.6228	0
2	1	LP2052-1	50	8.84	10.78	1.94	0.4943	0.5656	0
3	1	LP2052-1	50	8.84	10.78	1.94	0.4713	0.5702	0
Figure 35. Data acquisition table.									

The data table consists of the following parameters:

1.) Shot Number. The shot number is in sequential order of when a shot was taken.

2.) Target Location. The target location of the target instruction is recorded in the second column. There are a total of 9 target locations, as shown in Figure 26.

3.) Test Device. The microcontroller model and the asset number are listed under the Test Device column. For this experiment, the LP2052 is the only microcontroller model being tested. There are two LP2052 test assets utilized in the experiment, where LP2052-1 is test device #1 and LP2052 is test device #2 in the data acquisition table.

4.) Injected RF Frequency (MHz). This column records the frequency of the injected RF pulse. In this current experiment, the frequency is held constant at 50 MHz.

5.) RF Injection Start Time ( $\mu$ s). The RF injection start time records the setting of the

DG535 at time C for when the pulse outputs from channel C  $\square$  D. This synchronizes the

RF injection to a specific target location. The recorded value is ~60 ns before the

theoretical value of each target location. This is due to a slight delay in the test equipment and is necessary to achieve precise synchronization.

6.) RF Injection Stop Time ( $\mu$ s). The RF injection stop time is the setting of the DG535 at time D for when the pulse ceases to output from channel C  $\square$  D. This represents the end of the target location time and cuts off the RF injection pulse.

7.) Total Duration of the RF Injection Pulse ( $\mu$ s). The total duration of the RF injection pulse is recorded by subtracting the start time from the stop time. This value correlates with the total duration of the specific target location.

8.) Average RF Peak Voltage. The average RF peak voltage is the average value of all of the peak voltages included in the injected RF pulse at a target location.

9.) Maximum RF Peak Voltage. The maximum RF peak voltage is the highest peak value during an RF injection into a target location.

10.) Upset. The upset column indicates whether or not the RF injection pulse caused an upset state to the microcontroller at a specific target location. A '0' represents that no upset occurred, whereas a '1' represents that an upset did occur.

To characterize the susceptibility at each target location, three parameters are necessary from the data acquisition table: the target location, the average RF peak voltage, and the upset indicator value ('0'=no upset, '1'=upset effect). In the experiment, data was collected for two LP2052 microcontroller devices and the susceptibility at each target location on each of the devices was characterized. The characterization was performed for each target location by generating a probabilistic model of the upset effect based on Bayesian statistics. This requires many repetitive shots at each target location on each device, where the only varied parameter between each shot at a specific target

location is the power level of the injected RF signal. To give an idea as to how many shots were necessary, Appendix B provides a complete record of the shot data, where it can be seen that a target location typically required 50 to 150 shots on each device in order to characterize its susceptibility level.

To measure the average peak voltage, the waveform data recorded on channel 1 of the oscilloscope requires additional processing. Each shot is saved to the data acquisition computer from the oscilloscope, where an example of the channel 1 through channel 4 measurement data is shown in Figure 36. The channel 1 data is the important data for this experiment, where channels 2-4 provide secondary data for future investigations.

Additionally, it can be seen how the injected RF waveform is coupling throughout the internals of the microcontroller and creating added noise on the channel 2-4 output lines.

An important aspect to note about the external clock signal is that it is not a perfect square wave signal. This is due to a slight impedance mismatch between the function generator and the synthesized sweeper. The mismatch caused negligible clock signal degradation, especially compared to the alternate methods that were attempted to resolve the mismatch. Moreover, the system clock out measured on channel 2 demonstrates how the microcontroller was able to quantify the external clock signal into a well-defined square wave (logic levels are clearly defined, along with a 50% duty cycle). These alternate methods attempting to resolve the mismatch are included in the Chapter 5 discussion.

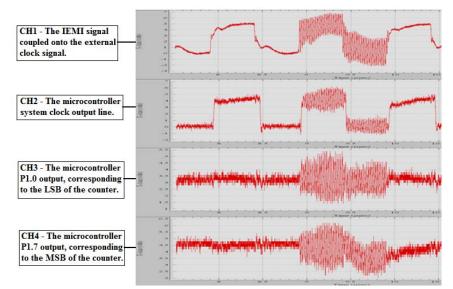


Figure 36. The oscilloscope Channel 1 through Channel 4 data measurements for two complete clock cycles. The channel 1 data is the important data for this experiment.

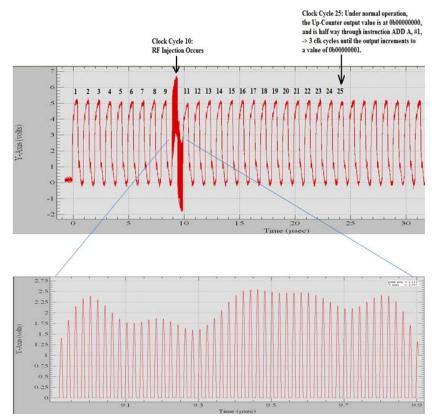


Figure 37. The waveform for each shot at each target location is processed through data acquisition software to extract the peak voltage values of the injected RF waveform. With the RF peak values, an average is taken to quantify the relative power level of the injected signal. This example shows the peak RF voltages extracted from an IEMI signal injected at Target Location 1, which corresponds to the complete instruction cycle.

For the measurements on channel 1, specific functions are applied to the original waveform to extract the peak values of the 50 MHz RF injection signal. An example of the extracted RF peak value waveform is shown in Figure 37. To process the waveform and extract the average peak voltage for each disruptive RF waveform, a data acquisition software known as 'DAAAC, version 4.0', developed by Voss Scientific, is used.

To process a waveform through DAAAC, a database for the process must first be created. In the new database, an arbitrary instrument with a single channel needs to be defined in order to process a waveform through a signal chain. Within the instrument channel, a process is defined as a 50 MHz band-pass filter. This process extracts the 50 MHz RF signal from the 1 MHz external clock signal. A second process is defined to clip the waveform to a time window equivalent to the total duration of the target location for which the data is being processed. To finish the configuration, figures of merit (FOMs) are defined to provide the average peak voltage of a processed waveform, along with the maximum peak voltage of the waveform.

Next, through the DAAAC analyze window, the 'Import Waveforms...' option is selected. This allows a series of waveforms to be imported into the acquisition software all at once. Therefore, all the shot data for a specific target location and a specific test device can be imported into the software at the same time. With the waveforms imported, the 'Reduce Processed' option is selected in the Analyze window and the waveforms to be processed through the defined signal chain are selected. The average peak value of an injected waveform is now extracted and can be directly correlated to an upset effect. Using the DAAAC software to process and extract data from the original waveforms is outlined in Figures 38-45.

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Figure 38. A new database is defined in the DAAAC software.

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Figure 39. In the new database, an arbitrary channel is created, where a signal chain can be defined to process waveforms.

User Processing: 50MhzBPF	User Processing Definition	×
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OK Cancel ∆pply Help	OK Cancel Help	Ite

Figure 40. A 50 MHz band-pass filter is defined in the signal chain to extract the injected RF signal.

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Figure 41. A window is defined to for the time duration of the injected RF signal. This time duration is equivalent to the corresponding target location time window.

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Figure 42. The 'Import Waveforms...' command is selected under the File Menu in the Archive window.

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Figure 43. The files for a specific target location (corresponding to the time window process previously defined) are selected all at once for import.

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17	8.09520e-06,4					21	8.09680e-06	4.4	4	3.2	4.8
18	8.09560e-06.4					22 23	8.09720e-06	4.56	4.2	3.2 3.2	4.4
19	8.09600e-06,4					23	8.09760e-06 8.09800e-06	4.48	4	3.2	4.8
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Figure 44. Completing the data import is a four step process. Step 1 selects the line in the data file where the actual data begins. Step 2 selects how to separate different data columns within the file. Step 3 sets the X axis and the Y axis to specific data columns. Step 4 allows the axes to be titles and the units to be defined, along with the option to apply the same settings to all data files being imported.

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Figure 45. The 'Reduce Processed...' command is selected in the Analyze window. Select all the newly imported data to be processed and it will process it through the signal chain on the specified channel. The average RF peak voltage is now acquired.

#### **Chapter 4** Experimental Results

Following the data acquisition and the data processing, probability of effects ( $P_E$ ) curves were generated for each LP2052 test device at each target location by using the proprietary software 'ANODE', developed by AFRL/RDHE. ANODE applies a Bayesian analysis method to generate a  $P_E$  curve for predicting future upsets based on the upset effect results of a series of previous shots, where applied relative power is the controlled variable in each shot of a series.

Figure 46 provides a recap of the previously defined target locations for the target instruction at clock cycle 10, where  $P_E$  curves were generated for two devices of the same model for each of the nine target locations. For the  $P_E$  curve data, the Y-axis is defined as the probability of an upset effect between 0 and 1. The X-axis is defined as the average peak voltage of the disruptive IEMI waveform, and is set in a  $log_{10}$  scale between 0.1 to 10. Furthermore, the blue line represents the calculated  $P_E$  value, where the red line represent a 95% confidence boundary. At a  $P_E=50\%$ , a blue marker is placed on the Xaxis to help identify the corresponding average peak voltage.

Figures 47-55 provide the generated  $P_E$  curves for each target location, where each test device is paired together for the associated target location. The level of steepness on the  $P_E$  curves helps to identify the threshold voltage range required to induce an upset. This threshold voltage range is an equivalent parameter to the breakdown bandwidth parameter previously defined in Chapter 1.3.

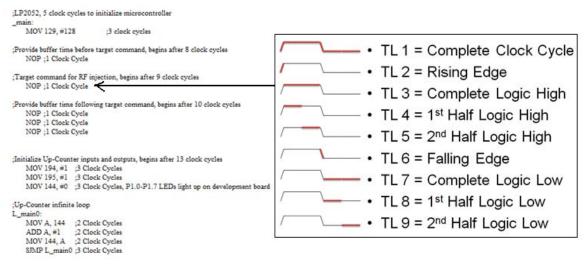
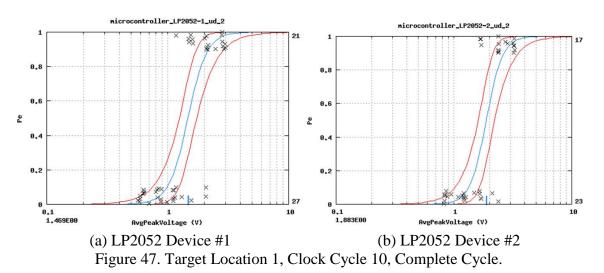


Figure 46. The defined Target Locations for the Target Instruction (clock cycle 10).

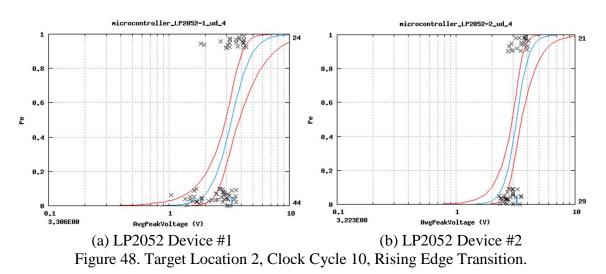
Target Location 1: Clock Cycle 10, One Complete Instruction Cycle:

The  $P_E$  curves generated for Target Location 1 cover an RF injection signal synchronized to the entire clock cycle 10 of the programmed assembly code. It can be seen that the results between the two devices at Target Location 1 are approximately equal and are within 0.5 dB of each other for the  $P_E=50\%$ . Furthermore, the slope throughout each  $P_E$  curve is approximately the same for both devices, indicating a similar range required to induce an upset at this target location.



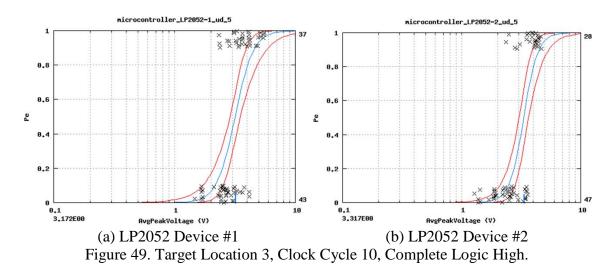
Target Location 2: Clock Cycle 10, The Rising Edge Transition of the Cycle:

The P<sub>E</sub> curves generated at Target Location 2 cover an RF injection signal synchronized to the rising edge transition for clock cycle 10. The rising edge transition is defined for a slightly longer duration than the actual rising edge (i.e., 10% to 90%). A slight overlap with the tail end of clock cycle 9's Low and a slight overlap on the very beginning of clock cycle 10's High is defined in the transition location. This overlap is introduced to provide adequate rise time (~10s of ns) of the injected RF pulse to reach consistent peak values throughout the entire transition. It can be seen that the results between the two devices at Target Location 2 are approximately equal for the P<sub>E</sub>=50%. Furthermore, the slope throughout each P<sub>E</sub> curve is approximately the same for both devices, indicating a similar range required to induce an upset at this target location.



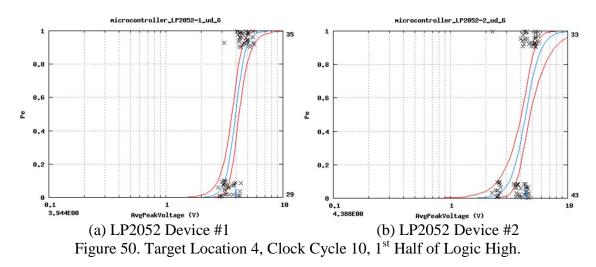
Target Location 3: Clock Cycle 10, The Complete Logic High of the Cycle:

The  $P_E$  curves generated for Target Location 3 cover an RF injection signal synchronized to the complete logic high of clock cycle 10. It can be seen that the results between the two devices at Target Location 3 are approximately equal and are within 0.5 dB of each other for the  $P_E$ =50%. Furthermore, the slope throughout each  $P_E$  curve is approximately the same for both devices, indicating a similar range required to induce an upset at this target location.



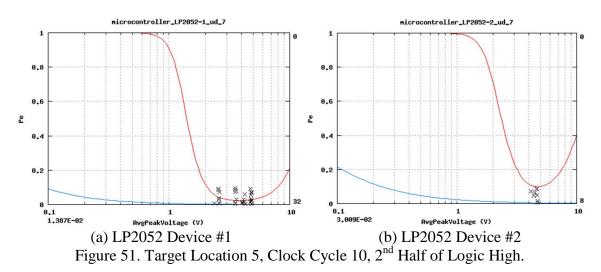
*Target Location 4: Clock Cycle 10, 1<sup>st</sup> Half of the Logic High of the Cycle:* 

The  $P_E$  curves generated for Target Location 4 cover an RF injection signal synchronized to the 1<sup>st</sup> half of the logic high of clock cycle 10. It can be seen that the results between the two devices at Target Location 4 are approximately equal and are within 0.5 dB of each other for the  $P_E$ =50%. Furthermore, the slope throughout each  $P_E$  curve is approximately the same for both devices, indicating a similar range required to induce an upset at this target location.



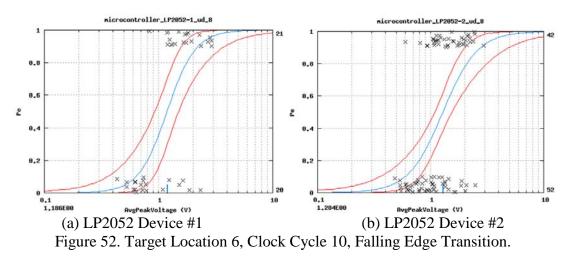
*Target Location 5: Clock Cycle 10, 2<sup>nd</sup> Half of Logic High of the Cycle:* 

The  $P_E$  curves generated for Target Location 5 cover an RF injection signal synchronized to the 2<sup>nd</sup> half of the logic high of clock cycle 10. At Target Location 5, a maximum output power from the RF source was achieved, yet unable to produce an upset effect at the target location on both devices. An RF source with a higher power out would be required to further characterize the susceptibility at Target Location 5, but is unnecessary within the scope of this thesis.



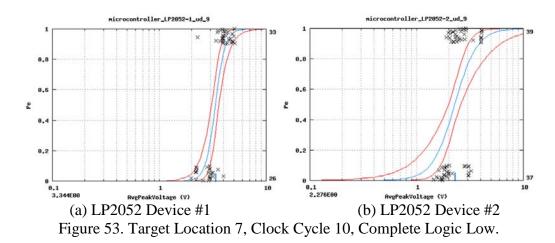
*Target Location 6: Clock Cycle 10, The Falling Edge Transition of the Cycle:* 

The  $P_E$  curves generated at Target Location 6 cover an RF injection signal synchronized to the falling edge transition for clock cycle 10. The falling edge transition is defined for a slightly larger duration than the actual falling edge (i.e., 10% to 90%), similar to how Target Location 2 was defined. A slight overlap with the tail end of clock cycle 10's High and a slight overlap on the very beginning of clock cycle 10's Low is defined in the transition location. This overlap is introduced to provide adequate rise time (~10s of ns) of the injected RF pulse to reach consistent peak values throughout the entire transition. It can be seen that the results between the two devices at Target Location 6 are approximately equal for the  $P_E$ =50%. Furthermore, the slope throughout each  $P_E$  curve is approximately the same for both devices, indicating a similar range required to induce an upset at this target location. Additionally, Target Location 6 resulted in the lowest average peak voltage necessary to induce a  $P_E$ =50%. The slope for the curves was also the smallest among all the target locations, indicating Target Location 6 has the widest range of average peak voltage values that will induce an upset.



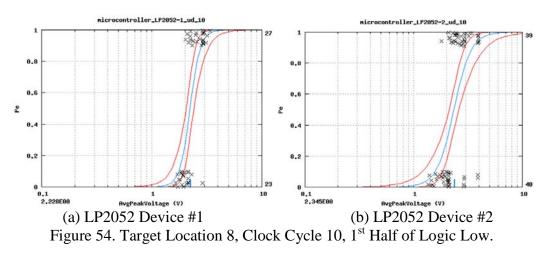
*Target Location 7: Clock Cycle 10, The Complete Logic Low of the Cycle:* 

The  $P_E$  curves generated for Target Location 7 cover an RF injection signal synchronized to the complete logic low of clock cycle 10. Target Location 7 was the only location where the  $P_E$  curves did not agree with each other between the two test devices. The difference between the  $P_E=50\%$  is approximately 1dB and the slope for device #1 is observably steeper compared to the slope for device #2. The difference between the two test devices requires further investigation. Susceptibility characterizations on additional LP2052 test devices could provide insight into the discrepancy between the two  $P_E$ curves. Furthermore, as will be discussed in more detail in Chapter 5, the difference could be due to the two identified types of upset having different susceptibility levels at this specific target location. This reason is suggested in Figure 53(b), where there is an approximate 1 dB gap between two groupings of data for values that do or do not cause an upset effect.



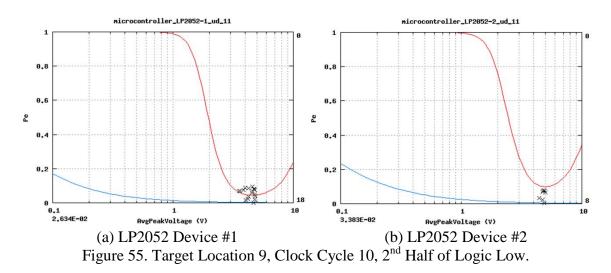
*Target Location 8: Clock Cycle 10, 1<sup>st</sup> Half of the Logic Low of the Cycle:* 

The  $P_E$  curves generated for Target Location 8 cover an RF injection signal synchronized to the 1<sup>st</sup> half of the logic low of clock cycle 10. It can be seen that the results between the two devices at Target Location 8 are approximately equal and are within 0.5 dB of each other for the  $P_E=50\%$ . The slop for (b) appears to be less than (a), but the results for each device are still in good agreement. Susceptibility characterization of additional test devices at the target location could be performed to further verify this agreement.



*Target Location 9: Clock Cycle 10, 2<sup>nd</sup> Half of Logic Low of the Cycle:* 

The  $P_E$  curves generated for Target Location 9 cover an RF injection signal synchronized to the 2<sup>nd</sup> half of the logic low of clock cycle 10. At Target Location 9, a maximum power output from the RF source was achieved, yet unable to produce an upset effect at the target location on both devices. An RF source with a higher power out would be required to further characterize the susceptibility at Target Location 9, but is unnecessary within the scope of this thesis.



Summary of  $P_E=50\%$  with Confidence Bounds for All Target Locations:

Figure 56 provides a summarized comparison between the  $P_E$ =50% with 95% confidence bounds for all 9 target locations. In this summary, it can be seen that 8 out of 9 target locations are in excellent agreement for the two test devices. This data clearly shows that different locations within an instruction cycle have a different susceptibility level on the LP2052 microcontroller, where the results are consistent between two devices.

This data provides a basis for research on using software to map out susceptible functional blocks of a microcontroller by correlating the functional block to the associated action of a specific target location. Follow-on research efforts are discussed in Chapter 5.

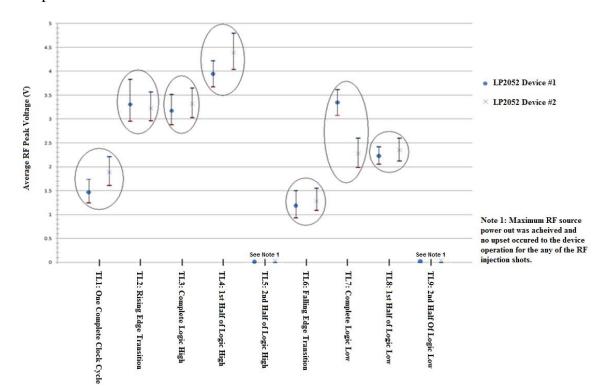


Figure 56. The probability of effect for each target location. The LP2052 test devices, #1 and #2, are paired together at each location. 8 out of 9 target locations are in perfect agreement for the two test devices.

#### Chapter 5 Discussion and Conclusion

#### 5.1 Secondary Experimental Observations

Throughout the experiment, additional observations were noted that did not directly apply to the experiment at hand. The first observation made was that the IEMI signal would sometime cause a delay in the microcontroller outputs P1.0 to P1.7, but resulted in a correct counter output value expected under normal operation. A second observation was that as the power level of the injected RF signal increased, the microcontroller registered additional clock cycles due to the interference. A third observation that occurred was that there were two identifiable types of upset effects, although they were both quantified together throughout the experiment.

For the first type of observation, the injected RF signal would sometimes cause a delay in the microcontroller outputs at port P1, where LEDs on the development board provided a visual indication of the output values. For this delay, an observable time difference between output values could be visually recognized on the development board. For example, when the IEMI signal caused the delay, P1.0-P1.4 may initialize at the time expected, whereas P1.5-P1.7 may initialize a half-second to a second later. Typically, the final counter output value would result in the correct output value for the number of applied clock pulses, even though the observable delay occurred at initialization. This effect typically occurred at lower RF power levels compared to power levels required to induce an upset effect and requires further investigation.

The second observation made throughout the experiment occurred when injected RF power level increased but did not cause the microcontroller to enter into an upset state. At these power levels, the induced RF signal caused additional clock pulses to be

registered by the microcontroller. At power levels just above the levels necessary to cause the output delay effect, one additional clock pulse might be registered by the microcontroller compared to normal operation. As the power output from the RF source increased towards the levels necessary to cause an upset effect for a given target location, more clock pulses tended to be registered. The highest number of additional clock pulses observed throughout the experiment was 8 additional pulses, but usually only between 1 to 5 additional clock pulses were registered by the microcontroller. This may be a function of the total number of 50 MHz cycles injected by the RF source for the duration of the specific target location. Further investigation into this observation could help develop an understanding as to how output bit errors relate to the injected RF pulse duration and the upset effects.

A third observation made throughout the experiment was that two different types of upset effects occurred. The first type of upset effect resulted in a locked-logic output state in one or more of the output leads P1.0 through P1.7. Typically, when this type of upset occurred, only P1.0 would respond to the clock signal while P1.1 through P1.7 remained in a locked-logic High state until the microcontroller power was cycled through (ie, turn off, turn on). Following the power cycle, the microcontroller would resume normal operation.

The second upset state identified resulted in the output port P1 locking up with all pins High, where, consistently, the addition of approximately 4000 clock cycles reinitialized the microcontroller back to normal operation. This consistent number of clock cycles required for the microcontroller to self-recover would suggest that an internal timer circuit is built into the microcontroller to help protect against disruptive effects

caused by noisy input signals. On a few shots, the self-recovery initialized around 1500 clock pulses, but this type of self-recovery was a very rare occurrence.

Furthermore, although throughout this experiment the two types of upset occurred with a fairly similar probability, the two upset states may have slightly different susceptibility levels. If the susceptibility levels are different, further investigation could possibly reveal the reason for the discrepancy between the two test device susceptibility levels found at Target Location 9. This observation requires further investigation and would require large amounts of shot data to be recorded for each target location and each test device in order to generate separate  $P_E$  curves at each location for each of the two observed upset states. The data collection for the overall experiment maintains a record of the type of upset for each shot. Therefore, this data can be utilized in future experiments to investigate into the two upset states.

#### 5.2 Future Experiments

Based on the experimental results presented in Chapter 4, follow-on experiments are currently being planned for the next steps in the research. One of the follow-on experiments is to characterize the susceptibility levels for different types of target instructions, but at the same target locations defined in Chapter 3. A second follow-on experiment to be performed is to repeat the experiments from the LP2052 microcontroller on the AT89S2051 microcontroller and compare the results between the two 8051-core microcontrollers.

For the first follow-on experiment, the susceptibility of different types of target instructions at the 9 original target locations is to be characterized. The MSC-51 instruction set consists of the following different types of instructions: Arithmetic,

Logical, Data Transfer, and Bit. The full instruction set is listed in Appendix A and details the type of each instruction in the set. By characterizing the susceptibility of each type of instruction, the susceptibility levels of each target location can be compared to each other. This may allow similar actions within different instruction types to be identified and associated with the microcontroller's internal hardware. This experiment is to further investigate into the feasibility of mapping susceptible instruction actions to the 8051-core architecture, which now has a basis for investigation based on the results in Chapter 4.

For the second follow-on experiment, the same experiments performed on the LP2052 will be performed on the S2051 microcontroller. The S2051 microcontroller processes instruction serially, so will therefore require a newly defined set of target locations. By performing fairly identical experiments on the S2051, commonalities between upset effects and the actions performed within an instruction can be identified. By identify common susceptibilities between the parallel and the serial processing microcontrollers, it may be possible to identify upset mechanisms within the core 8051-microcontroller (and potentially within other families of microcontrollers). Identifying upset mechanisms common among various types of microcontrollers is a key aspect involved in the development of a predictive model and is part of the research effort being performed by AFRL/RDHE at Kirtland AFB, NM.

#### **5.3** Experimental Difficulties

Within the experimental setup described in Chapter 3, various difficulties in carrying out the experiment had to be overcome. The biggest difficulty to overcome was developing a way to quantify susceptibility at each target location. The second biggest

difficulty was in minimizing the impedance mismatch the synthesized sweeper caused to the external clock signal.

To develop a way to quantify susceptibility at each target location, multiple parameters had to be defined. Determining what constituted being an upset state or not was the first parameter that required defining. Based on pre-experimental observations, it was decided that an upset state would qualify as any state that caused the microcontroller to either enter a self-recovery state or required a power cycle to resume normal operation. Although these two upset states are associated with clearly different effects, they occurred at similar power levels as previously mentioned in Chapter 5.1. Therefore, they were grouped together into the overall category defined as an upset state.

A second parameter that required a quantifying definition was the susceptibility level for a specific target location. Initially, it was thought that a deterministic voltage threshold would exist between a non-upset state and an upset state. The problem that existed in testing this hypothesis was related to having a slight instability with the RF source, where power levels tended to drift between shots, even though the power setting was fixed to specific value. It was observed that the injected waveforms maintained consistent peak to peak levels for any given shot; therefore, the peak average voltage for each shot could be calculated. With an identifiable parameter associated with an upset effect,  $P_E$  curves could be generated and used to identify relative susceptibility levels at each target location.

The second biggest difficulty to overcome was in dealing with the impedance mismatch caused by the conductive IEMI RF source (synthesized sweeper). In the initial experimental test setup, a microwave RF switch was being utilized to help isolate the RF

source from the external clock source. The difficulty in using this setup was that the RF switch introduced additional higher order harmonics within the injected RF signal. Furthermore, power levels necessary to consistently induce an upset effect were not achievable due to the additional attenuation introduced by the RF switch on the RF source injection line. Therefore, alternate methods were attempted to try and resolve this issue, such as using a splitter to combine the external clock signal with the RF source signal. These methods failed to properly isolate the two signals, and it was then discovered that the cleanest signal to generate required the least amount of additional test equipment. By using the sweeper in pulse mode and directly connecting the RF output line to the external clock line, a slight impedance mismatch caused degradation to the external clock signal, but allowed for a clean RF signal of 50 MHz to couple onto the clock signal at a target location. Although the clock signal was not an ideal square wave, the microcontroller recognized the signal as a square wave with 50% duty cycle and operated as expected under minimum RF injection levels. Therefore, the impedance mismatch was deemed negligible for the microcontroller experiment.

#### 5.4 Conclusion

IEMI is a rising threat to the electronic systems that are used and depended upon in everyday life of civil society. To address this threat, it is important to develop an understanding of what IEMI is and how it can be used to disrupt sophisticated electronic systems. By understanding IEMI and its disruptive effects, predictive models and protection standard can be developed for various types of electronic systems to address the threat.

Experimental results were detailed throughout this investigation that involved characterizing the susceptibility of a single microcontroller instruction at different moments within the instruction cycle. The microcontroller device used throughout the experiment was the ATMEL AT89LP2052, which is an 8051-core based microcontroller device that processes instructions in parallel. The experiment involved targeting specific moments within an instruction cycle, based on the parallel processing of the LP2052, to determine whether or not different actions within the cycle have different susceptibility levels to IEMI.

Detailed in the Chapter 4 results, it was determined that susceptibility levels are different at defined target locations within the instruction cycle, yet consistent at each target location between two of the same microcontroller test devices. This research establishes a basis to initiate further investigation into the susceptibility level of different moments within an instruction cycle. A way forward is now provided in an effort to try and map out the susceptibility levels of the internal hardware of a microcontroller by correlating the functional blocks to the associated target locations within the software.

By being able to use software to map out the hardware susceptibility levels, a better understanding of the upset mechanisms can be achieved and possibly contribute to the development of a predictive model for IEMI induced upset in microcontrollers. A microcontroller represents a simplified system on a single chip. Therefore, by understanding the upset mechanisms within a microcontroller, similar upset mechanisms of more complex electronic systems may be identifiable. With the growing threat of IEMI, being able to identify upset mechanism and develop predictive models in electronic systems can significantly reduce this threat to everyday life of civil society.

### Appendix A. MCS-51 instruction set, including the clock cycle requirements for

standard 8051 microcontrollers compared to the AT89LP2052 microcontroller.

Instruction Type	Cycle Count
Most arithmetic, logical, bit and transfer instructions	# bytes
Branches and Calls	# bytes + 1
Single Byte Indirect (i.e. ADD A, @Ri, etc.)	2
RET, RETI	4
MOVC	3
MUL	2
DIV	4
INC DPTR	2

Table XI. Typical cycle count for general instruction	on types on the LP2052.

		Clock		
Arithmetic Instruction	Bytes	8051	LP2052	Hex Code
ADD A, Rn	1	12	1	28-2F
ADD A, direct	2	12	2	25
ADD A, @Ri	1	12	2	26-27
ADD A, #data	2	12	2	24
ADDC A, Rn	1	12	1	38-3F
ADDC A, direct	2	12	2	35
ADDC A, @Ri	1	12	2	36-37
ADDC A, #data	2	12	2	34
SUBB A, Rn	1	12	1	98-9F
SUBB A, direct	2	12	2	95
SUBB A, @ Ri	1	12	2	96-97
SUBB A, #data	2	12	2	94
INC Rn	1	12	1	08-0F
INC direct	2	12	2	05
INC @Ri	1	12	2	06-07
INC A	1	12	1	04
DEC Rn	1	12	1	18-1F
DEC direct	2	12	2	15
DEC @ Ri	1	12	2	16-17
DEC A	1	12	1	14
INC DPTR	1	24	2	A3
MUL AB	1	48	2	A4
DIV AB	1	48	4	84
DA A	1	12	1	D4

 Table XIII. Overview of MCS-51 logical instructions.

		Clock	Cycles	
Logical Instruction	Bytes	8051	LP2052	Hex Code
CLR A	1	12	1	E4
CPL A	1	12	1	F4
ANL A, Rn	1	12	1	58-5F
ANL A, direct	2	12	2	55
ANL A, @Ri	1	12	2	56-57
ANL A, #data	2	12	2	54
ANL direct, A	2	12	2	52
ANL direct, #data	3	24	3	53
ORL A, Rn	1	12	1	48-4F
ORL A, direct	2	12	2	45
ORL A, @Ri	1	12	2	46-47
ORL A, #data	2	12	2	44
ORL direct, A	2	12	2	42
ORL direct, #data	3	24	3	43
XRL A, Rn	1	12	1	68-6F
XRL A, direct	2	12	2	65
XRL A, @Ri	1	12	2	66-67
XRL A, #data	2	12	2	64
XRL direct, A	2	12	2	62
XRL direct, #data	3	24	3	63
RL A	1	12	1	23
RLC A	1	12	1	33
RR A	1	12	1	03
RRC A	1	12	1	13
SWAP A	1	12	1	C4

		Clock	Cycles	
Data Transfer Instruction	Bytes	8051	LP2052	Hex Code
MOV A, Rn	1	12	1	E8-EF
MOV A, direct	2	12	2	E5
MOV A, @ Ri	1	12	2	E6-E7
MOV A, #data	2	12	2	74
MOV Rn, A	1	12	1	F8-FF
MOV Rn, direct	2	24	2	A8-AF
MOV Rn, #data	2	12	2	78-7F
MOV direct, A	2	12	2	F5
MOV direct, Rn	2	24	2	88-8F
MOV direct, direct	3	24	3	85
MOV direct, @ Ri	2	24	2	86-87
MOV direct, #data	3	24	3	75
MOV @Ri, A	1	12	1	F6-F7
MOV @Ri, direct	2	24	2	A6-A7
MOV @Ri, #data	2	12	2	76-77
MOV DPTR, #data16	3	24	3	90
MOVC A, @A+DPTR	1	24	3	93
MOVC A, @A+PC	1	24	3	83
PUSH direct	2	24	2	C0
POP direct	2	24	2	D0
XCH A, Rn	1	12	1	C8-CF
XCH A, direct	2	12	2	C5
XCH A, @Ri	1	12	2	C6-C7
XCHD A, @Ri	1	12	2	D6-D7

Table XIV. Overview of MCS-51 data transfer instructions.

Table XV. Overview of MCS-51 bi	it instructions.
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		Clock	Cycles	
Bit Instruction	Bytes	8051	LP2052	Hex Code
CLR C	1	12	1	C3
CLR bit	2	12	2	C2
SETB C	1	12	1	D3
SETB bit	2	12	2	D2
CPL C	1	12	1	B3
CPL bit	2	12	2	B2
ANL C, bit	2	24	2	82
ANL C, /bit	2	24	2	B0
ORL C, bit	2	24	2	72
ORL C, /bit	2	24	2	A0
MOV C, bit	2	12	2	A2
MOV bit, C	2	24	2	92
JC rel	2	24	3	40
JNC rel	2	24	3	50
JB bit, rel	3	24	4	20
JNB bit, rel	3	24	4	30
JBC bit, rel	3	24	4	10
JZ rel	2	24	3	60
JNZ rel	2	24	3	70
SJMP rel	2	24	3	80
ACALL addr11	2	24	3	11,31,51,7 1,91,B1,D1 ,F1
LCALL addr16	3	24	4	12
RET	1	24	4	22
RETI	1	24	4	32
AJMP addr11	2	24	3	01,21,41,6 1,81,A1,C1 ,E1
LJMP addr16	3	24	4	02
JMP @A+DPTR	1	24	2	73
CJNE A, direct, rel	3	24	4	B5
CJNE A, #data, rel	3	24	4	B4
CJNE Rn, #data, rel	3	24	4	B8-BF
CJNE @Ri, #data, rel	3	24	4	B6-B7
DJNZ Rn, rel	2	24	3	D8-DF
DJNZ direct, rel	3	24	4	D5
NOP	1	12	1	00

Appendix B. Complete table of experimental shot data.

Note: The data table of the experimental shot data includes two additional target locations defined for a separate experiment not within the scope of this thesis. Target location 1 and target location 3 in the data table the two target locations from a separate experiment. For the nine target locations defined in Chapter 3, the corresponding target locations in the data table are as follows:

Target Locations Defined in Chapter 3	Corresponding Target Location in Data
Target Location 1 $\rightarrow$	Target Location 2 in data table
Target Location 2 $\rightarrow$	Target Location 4 in data table
Target Location 3 $\rightarrow$	Target Location 5 in data table
Target Location 4 $\rightarrow$	Target Location 6 in data table
Target Location 5 $\rightarrow$	Target Location 7 in data table
Target Location 6 $\rightarrow$	Target Location 8 in data table
Target Location 7 $\rightarrow$	Target Location 9 in data table
Target Location 8 $\rightarrow$	Target Location 10 in data table
Target Location 9 $\rightarrow$	Target Location 11 in data table

1					10.70			RFMaxPk-Volt 0.6228	
2	1	LP2052-1 LP2052-1	50 50	8.84	10.78	1.94	0.4671 0.4943	0.5656	-
3	1	LP2052-1	50	8.84	10.78	1.94	0.4343	0.5656	-
4	1	LP2052-1	50	8.84	10.78	1.94	0.4713	0.6029	+
5	1	LP2052-1	50	8.84	10.78	1.94	0.4367	0.6023	-
6	1	LP2052-1	50	8.84	10.78	1.94	0.5107	0.6200	+
7	1	LP2052-1	50	8.84	10.78	1.94	0.5107	0.6181	+
									+
8	1	LP2052-1	50	8.84	10.78	1.94	0.445	0.5384	+
9	1	LP2052-1	50	8.84	10.78	1.94	0.5041	0.6102	+
10	1	LP2052-1	50	8.84	10.78	1.94	0.5205	0.63	
11	1	LP2052-1	50	8.84	10.78	1.94	0.6475	0.8452	+
12	1	LP2052-1	50	8.84	10.78	1.94	0.6196	0.7496	
13	1	LP2052-1	50	8.84	10.78	1.94	0.6665	0.8067	
14	1	LP2052-1	50	8.84	10.78	1.94	0.6072	0.7349	+
15	1	LP2052-1	50	8.84	10.78	1.94	0.6761	0.8183	
16	1	LP2052-1	50	8.84	10.78	1.94	0.7787	0.9422	
17	1	LP2052-1	50	8.84	10.78	1.94	0.6198	0.7498	+
18	1	LP2052-1	50	8.84	10.78	1.94	0.6119	0.7405	
19	1	LP2052-1	50	8.84	10.78	1.94	0.6474	0.7833	
20	1	LP2052-1	50	8.84	10.78	1.94	0.7371	0.892	
21	1	LP2052-1	50	8.84	10.78	1.94	0.7551	1.007	
22	1	LP2052-1	50	8.84	10.78	1.94	0.7943	0.9608	
23	1	LP2052-1	50	8.84	10.78	1.94	0.8447	1.021	
24	1	LP2052-1	50	8.84	10.78	1.94	1.009	1.219	
25	1	LP2052-1	50	8.84	10.78	1.94	0.85	1.028	
26	1	LP2052-1	50	8.84	10.78	1.94	0.9014	1.091	+
27	1	LP2052-1	50	8.84	10.78	1.94	0.8444	1.021	+
28	1	LP2052-1	50	8.84	10.78	1.94	0.8141	0.9854	+
29	1	LP2052-1	50	8.84	10.78	1.94	0.8464	1.023	+
30	1	LP2052-1	50	8.84	10.78	1.94	0.9386	1.136	
31	1	LP2052-1	50	8.84	10.78	1.94	0.9654	1.276	+
32	1	LP2052-1	50	8.84	10.78	1.94	1.151	1.392	+
33	1	LP2052-1	50	8.84	10.78	1.94	1.287	1.552	+
34	1	LP2052-1	50	8.84	10.78	1.94	1.23	1.489	+
35	1	LP2052-1	50	8.84	10.78	1.94	1.151	1.394	+
36	1	LP2052-1	50	8.84	10.78	1.94	1.101	1.419	+
36	1	LP2052-1	50	8.84	10.78	1.94	1.174	1.418	+
38	1	LP2052-1 LP2052-1	50	8.84	10.78	1.94	1.172	1.910	+
39	1	LP2052-1 LP2052-1	50	8.84	10.78	1.94	1.101	1.393	+
39	1	LP2052-1 LP2052-1	50	8.84	10.78	1.94	1.142	1.416	+
41	1	LP2052-1	50	8.84	10.78	1.94	1.424	1.898	+
42	1	LP2052-1	50	8.84	10.78	1.94	1.618	1.957	+
	1	LP2052-1	50	8.84	10.78	1.94	1.503	1.817	+
43		LP2052-1	50		10.78		1.553	1.878	+
	1			8.84		1.94			+
45	1	LP2052-1	50	8.84	10.78	1.94	2.039	2.468	+
46		LP2052-1	50	8.84	10.78	1.94	1.553	1.88	+
	1								
47	1	LP2052-1	50	8.84	10.78	1.94	1.488	1.801	
47 48	1	LP2052-1 LP2052-1	50	8.84	10.78	1.94	1.535	1.857	
47 48 49	1 1 1	LP2052-1 LP2052-1 LP2052-1	50 50	8.84 8.84	10.78 10.78	1.94 1.94	1.535 1.517	1.857 1.837	
47 48 49 50	1 1 1 1	LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50	8.84 8.84 8.84	10.78 10.78 10.78	1.94 1.94 1.94	1.535 1.517 1.547	1.857 1.837 1.873	
47 48 49 50 hotNumber	1 1 1 TargetLocation	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice	50 50 50 RFFrequency-MHz	8.84 8.84 8.84 RFStartTime-us	10.78 10.78 10.78 RFStopTime-us	1.94 1.94 1.94 RFTotalDuration-us	1.535 1.517 1.547 RFAvgPk-Volts	1.857 1.837 1.873 RFMaxPk-Volts	s Up
47 48 49 50 hotNumber 51	1 1 1 TargetLocation 1	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1	50 50 50 RFFrequency-MHz 50	8.84 8.84 RFStartTime-us 8.84	10.78 10.78 10.78 RFStopTime-us 10.78	1.94 1.94 1.94 RFTotalDuration-us 1.94	1.535 1.517 1.547 RFAvgPk-Volts 1.962	1.857 1.837 1.873 RFMaxPk-Volts 2.615	
47 48 49 50 hotNumber 51 52	1 1 1 TargetLocation 1 1	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1	50 50 BFFrequency-MHz 50 50	8.84 8.84 RFStartTime-us 8.84 8.84	10.78 10.78 10.78 RFStopTime-us 10.78 10.78	1.94 1.94 1.94 RFTotalDuration-us 1.94 1.94	1.535 1.517 1.547 RFAugPk-Volts 1.962 2.13	1.857 1.837 1.873 RFMaxPk-Volt: 2.615 2.578	
47 48 49 50 hotNumber 51 52 53	1 1 1 TargetLocation 1 1 1	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1	50 50 BFFrequency-MHz 50 50 50	8.84 8.84 RFStartTime-us 8.84 8.84 8.84	10.78 10.78 10.78 RFStopTime-us 10.78 10.78 10.78	1.94 1.94 1.94 RFTotalDuration-us 1.94 1.94 1.94	1.535 1.517 1.547 RFAvgPk-Volts 1.962 2.13 2.135	1.857 1.837 1.873 RFMaxPk-Volts 2.615 2.578 2.584	
47 48 49 50 hotNumber 51 52 53 54	1 1 1 TargetLocation 1 1 1 1	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 BFFrequency-MHz 50 50 50 50	8.84 8.84 RFStartTime-us 8.84 8.84 8.84 8.84 8.84	10.78 10.78 10.78 RFStopTime-us 10.78 10.78 10.78 10.78	1.94 1.94 RFTotalDuration-us 1.94 1.94 1.94 1.94 1.94	1.535 1.517 1.547 RFAvgPk-Volts 1.962 2.13 2.135 2.155	1.857 1.837 1.873 PFMaxPk-Volt: 2.615 2.578 2.584 2.608	
47 48 49 50 hotNumber 51 52 53 54 55	1 1 1 TargetLocation 1 1 1 1 1	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 BFFrequency-MHz 50 50 50 50 50	8.84 8.84 RFStartTime-us 8.84 8.84 8.84 8.84 8.84 8.84 8.84	10.78 10.78 RFStopTime-us 10.78 10.78 10.78 10.78 10.78 10.78 10.78	1.94 1.94 BFTotalDuration-us 1.94 1.94 1.94 1.94 1.94 1.94	1.535 1.517 1.547 RFAvgPk-Volts 2.13 2.135 2.155 2.111	1.857 1.837 1.873 PFMaxPk-Volt: 2.615 2.578 2.584 2.608 2.555	
47 48 50 hotNumber 51 52 53 54 55 56	1 1 1 TargetLocation 1 1 1 1 1 1 1	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFrequency-MHz 50 50 50 50 50 50	8.84 8.84 RFStartTime-us 8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.8	10.78 10.78 RFStopTime-us 10.78 10.78 10.78 10.78 10.78 10.78 10.78	1.34 1.34 1.94 FFTotalDuration-us 1.94 1.34 1.34 1.34 1.34 1.34	1.535 1.517 1.547 RFAvgPk-Volts 2.13 2.135 2.135 2.155 2.111 2.13	1.857 1.837 1.873 RFMaxPk-Volts 2.578 2.554 2.554 2.555 2.555 2.576	
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47 48 49 50 hotNumber 51 52 53 54 55 55 56 57 58 59 60 61 62	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-2 LP2052-2	50 50 FIFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 RFStart Time-us 8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.8	10.78 10.78 10.78 FIFStopTime-us 10.78 10.78 10.78 10.78 10.78 10.78 10.78 10.78 10.78 10.78 10.78 10.78 10.78	194 194 194 194 194 194 194 194 194 194	1535 1517 1547 RFAugPk-Volts 2.13 2.135 2.155 2.155 2.155 2.13 2.143 2.143 2.143 2.142 2.142 2.145 0.4176 0.4648	1.857 1.837 1.873 RFMaxPk-Volt 2.615 2.578 2.554 2.608 2.555 2.576 2.6 2.6 2.667 2.592 2.619 0.55568 0.5865	
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47         48           48         49           50         51           51         52           53         54           55         55           53         54           60         61           62         53           64         66           65         66           67         78           73         71           72         73           73         74           75         76           77         77	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 FIFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	884 884 984 985 985 884 884 884 884 884 884 884 884 884 8	00.78 00.780	194 194 194 194 194 194 194 194 194 194	1555 1577 1587 volta 1982 volta 1982 volta 1982 volta 1982 volta 1982 volta 1985 volta 1	1957 1857 1873 1873 1873 2875 2576 2577 05776 05777 05777 05776 05776 05776 05776 05776 07789 07789 07289 0,7289 0,7289 0,7289 0,7289 0,7289 0,7289 0,7289 0,7289 0,7289 0,3033 0,8033 0,8033 0,8033 0,8035 0,9045 0,9045 0,705	
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47 48 49 50 51 52 52 53 54 55 55 55 55 55 55 55 55 55 55 55 55	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 FFFrequency.MH₂ 50 50 50 50 50 50 50 50 50 50	884 884 884 884 884 884 884 884 884 884	0.78 0.78 0.78 PFStopTime-us 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78	194 194 194 184 184 194 194 194 194 194 194 194 194 194 19	1557 1577 1547, Volts 1577 1547, Volts 2135 2135 2135 2135 2135 2135 2135 2135	1957 1857 1873 1873 1873 2876 2578 2576 2577 0576 05776 05776 05776 05785 07319 0732 0,7785 0,7733 0,001 0,7779 0,3747 0,7799 0,7786 0,7778 0,7786 0,7778 0,7786 0,7778 0,7786 0,7778 0,7786 0,7778 0,7786 0,7778 0,7786 0,7778 0,7786 0,7778 0,7786 0,7786 0,7778 0,7786 0,7786 0,7778 0,7786 0,7786 0,7778 0,7786 0,7786 0,7778 0,7786 0,7786 0,7778 0,7786 0,7786 0,7786 0,7786 0,7786 0,7786 0,7786 0,7786 0,7786 0,	
47         48           48         50           50         50           51         52           53         54           55         56           57         58           60         61           62         63           64         65           67         70           72         73           73         77           77         78           73         77           78         73           73         76           60         81	1 1 1 1 1 TargetLocation 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 RFF requency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	0.78 0.78 0.78 PFScopTim+us 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78	194 194 194 194 194 194 194 194 194 194	1535 1517 1547 1547 1547 1547 2135 2135 2135 2135 2135 2135 2135 2135	1957 1837 1873 1873 1873 1873 1873 1873 1873 1873 1877 1877 1877 2508 2508 2556 2556 2557 2552 2557 05568 05555 05555 05557 0557 0557 0557 0574 0,574 0,577 0,574 0,577 0,739 0,7339 0,7339 0,901 0,7339 0,901 0,7339 0,914 0,9577	
47         48           49         50           51         52           53         54           55         55           56         57           57         59           60         61           62         63           64         65           65         66           66         66           67         73           73         74           75         77           78         80           81         62	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FFFrequency.MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	884 884 984 985 985 884 884 884 884 884 884 884 884 884 8	00.78 00.780	194 194 194 194 194 194 194 194 194 194	1557 1577 1587 volt3 1982 2.13 2.135 2.155 2.155 2.155 2.13 2.142 2.13 2.142 2.13 2.143 2.142 2.13 2.142 2.142 2.204 2.142 2.204 2.142 2.204 2.142 2.142 2.142 2.142 2.142 2.155 0.4475 0.5575 0.4495 0.6806 0.6806 0.6806 0.68577 0.7254 0.8462	1957 1857 1873 1873 1873 1873 1873 1873 1873 1877	
47         48           48         50           50         50           51         52           52         53           54         55           56         56           57         58           60         61           62         63           64         65           67         71           72         73           74         75           77         78           79         90           81         62           83         83	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FiFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	10.78 10.78	194 194 194 187 184 194 194 194 194 194 194 194 194 194 19	1555 157 157 157 157 157 157 157 157 2135 2135 2135 2135 2135 2135 2135 2135	1957 1857 1873 1873 1873 1873 1873 1873 1873 1873 1873 1877 1877 2584 2594 2595 2576 2577 0516 2577 0517 0517 0517 0577 0516 05257 07289 0,7239 0,803 0,7779 0,8147 0,7739 0,8147 0,7739 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,7779 0,8147 0,9577 0,9577 0,9577 0,7779 0,9577 0,7779 0,9577 0,9777 0,9785 0,7779 0,9777 0,9987 0,9987 0,9988 0,9988 0,9957 0,9957 0,9958 0,9958 0,9958 0,9956 0,9957 0,9958 0,9958 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9956 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9956 0,9957 0,9957 0,9956 0,9957 0,9956 0,9956 0,9957 0,9956 0,9957 0,9956 0,9957 0,9956 0,9957 0,9956 0,9957 0,9956 0,9957 0,9956 0,9957 0,99	
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47         48           48         50           50         51           51         52           53         54           55         56           57         59           60         61           62         63           64         65           66         66           67         70           73         74           75         77           77         78           80         81           82         83           84         85	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 70 70 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78	194 194 194 194 194 194 194 194 194 194	1535 1517 1547 1547 1547 1547 2135 2135 2135 2135 2135 2135 2135 2135	1957 1837 1873 1873 1873 1873 1873 1873 1873 1873 1877 1877 2508 2507 05578 05578 05578 0577 0577 05778 05778 0577 0577 0577 05779 0739 0,7339 0,0417 0,7399 0,0417 0,7391 0,0577 0,0577 0,0789 0,0789 0,07577 0,0577 0,0789 0,0789 0,0787 0,0577 0,0577 0,0789 0,0789 0,07739 0,07739 0,07739 0,0771 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,0577 1024 0,007 1	
47         48           48         49           50         51           52         53           54         55           55         56           59         56           60         61           62         63           64         65           65         66           63         67           73         74           77         78           77         77           78         77           79         80           81         82           83         84           85         84           85         84	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	884 884 884 884 884 884 884 884 884 884	0.78 0.78 0.78 <b>FFStopTime us</b> 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78	194 194 194 194 194 194 194 194 194 194	1557 1577 1547 1587 1587 1587 1587 2185 2195 2195 2195 2195 2195 2195 2195 219	1957 1857 1873 1873 1873 1873 1873 2875 2875 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2876 2855 0.5588 0.5588 0.5588 0.5588 0.5588 0.68257 0.6227 0.5776 0.5776 0.5776 0.5776 0.5776 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.5789 0.7789 0.7739 0.82877 0.3781 0.7289 0.7399 0.3791 0.3781 0.7289 0.7391 0.82877 0.3781 0.7289 0.7399 0.8677 1.024 0.93988 0.7381 0.7581 0.7	
47         48           48         49           50         50           51         52           53         54           56         56           57         58           60         61           62         63           63         67           68         67           77         76           77         77           77         77           79         60           81         82           83         84           85         63           84         85           84         85           84         85	1 1 1 1 1 TargetLocation 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FiFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	10.78 10.78	194 194 194 194 194 194 194 194 194 194	1557 157 157 157 157 157 157 157	1957 1857 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1877 1877 2878 2800 2856 2857 2.60 2.576 2.576 2.577 2.592 2.592 2.592 2.592 2.592 2.592 0.5568 0.5568 0.5568 0.5568 0.5567 0.5577 0.5442 0.5577 0.5442 0.5577 0.5442 0.5577 0.516 0.5577 0.5576 0.5577 0.5576 0.5577 0.5576 0.5577 0.5577 0.5576 0.5577 0.5576 0.5577 0.5577 0.5577 0.5576 0.5577	
47         48           48         49           50         51           51         52           53         54           55         55           56         66           60         61           62         63           64         66           65         66           66         66           67         73           70         74           75         76           77         78           80         81           82         83           87         88           87         88           87         88	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 FIF Frequency MHz 50 50 50 50 50 50 50 50 50 50	884 884 984 985 985 884 884 884 884 884 884 884 884 884 8	10.78           10.78 </td <td>194 194 194 194 194 194 194 194 194 194</td> <td>1557 1577 1577 1587 volts 1982 2.13 2.135 2.155 2.155 2.155 2.155 2.13 2.142 2.13 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.145 0.5575 0.5575 0.5575 0.5575 0.4495 0.4495 0.4495 0.4495 0.4554 0.6804 0.6804 0.6804 0.6804 0.6804 0.6857 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.</td> <td>1957 1857 1877</td> <td></td>	194 194 194 194 194 194 194 194 194 194	1557 1577 1577 1587 volts 1982 2.13 2.135 2.155 2.155 2.155 2.155 2.13 2.142 2.13 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.142 2.145 0.5575 0.5575 0.5575 0.5575 0.4495 0.4495 0.4495 0.4495 0.4554 0.6804 0.6804 0.6804 0.6804 0.6804 0.6857 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.6842 0.6857 0.	1957 1857 1877	
47         48           48         49           50         50           51         52           52         53           54         55           56         56           57         58           60         61           62         63           63         68           66         68           67         77           78         77           79         80           80         83           84         85           87         88           87         88           87         89           89         89	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.1 LP2082.2 LP208.	50 50 50 FFFrequency-MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	10.78           10.78 </td <td>194 194 194 194 194 194 194 194 194 194</td> <td>1557 1577 1547 1587 1587 1587 2135 2135 2135 2135 2135 2135 2135 2135</td> <td>1957 1857 1873 RFMat/Fk-V057 2,578 0,5568 0,5568 0,5577 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,7789 0,7739 0,0773 0,0773 0,0777 0,5777 0,5777 0,5777 0,5776 0,7789 0,7739 0,0773 0,0777 0,0577 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778</td> <td></td>	194 194 194 194 194 194 194 194 194 194	1557 1577 1547 1587 1587 1587 2135 2135 2135 2135 2135 2135 2135 2135	1957 1857 1873 RFMat/Fk-V057 2,578 0,5568 0,5568 0,5577 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,5778 0,7789 0,7739 0,0773 0,0773 0,0777 0,5777 0,5777 0,5777 0,5776 0,7789 0,7739 0,0773 0,0777 0,0577 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778 0,0778	
47         48           48         49           50         51           51         53           54         55           55         54           56         56           60         61           62         63           64         65           66         66           67         73           73         74           75         77           77         78           80         81           82         83           83         84           85         88           89         90           91         91	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 70 70 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78	194 194 194 194 194 194 194 194 194 194	1535 1547 1547 1547 1547 1547 1547 1547 2135 2135 2135 2135 2135 2135 2135 2135	1957 1857 1873 1873 1873 1873 1873 1873 1873 187	
47         48           48         49           50         52           53         54           55         55           56         59           60         61           62         63           64         65           65         66           66         68           63         70           71         72           73         74           77         77           78         77           77         77           78         80           80         81           82         83           83         84           85         88           89         90           91         91	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 FIF Frequency.MH₂ 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78	194 194 194 194 194 194 194 194 194 194	1557 1577 1547 volts 2157 2157 2157 2155 2155 2155 2155 2155	1957 1857 1877 1877 1873 RFMark-Vot 2578 2576 2577 0576 05776 0578 05778 0578 05778 0578 05778 0578 05778 05778 05778 05778 05778 05778 05778 05778 0578 0577 0598 0577 1024 0598 0598 0577 1024 0598 0598 0577 1024 0598 0577 1024 0598 0597 1024 0598 0577 1024 0598 0597 1024 0598 0598 0577 1024 0598 0598 0577 1024 0598 0598 0577 1024 0598 0598 0598 0577 0598 0578	
47         48           48         49           50         53           51         52           53         54           55         55           56         56           67         58           60         61           62         63           64         65           66         68           67         76           68         70           71         72           73         77           77         78           80         81           82         83           84         85           85         88           89         90           91         32           83         33	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FiFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	10.78           10.78 </td <td>194 194 194 194 194 194 194 194 194 194</td> <td>1555 157 157 157 157 2155 2155 2155 2155</td> <td>1957 1857 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1877 1877 2878 2800 2856 2857 2.65 2.65 2.576 2.576 2.577 2.582 2.592 2.592 2.592 2.592 0.5568 0.5568 0.5557 0.5568 0.5257 0.5576 0.5442 0.5577 0.5442 0.5577 0.516 0.5577 0.5577 0.516 0.5577</td> <td></td>	194 194 194 194 194 194 194 194 194 194	1555 157 157 157 157 2155 2155 2155 2155	1957 1857 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1877 1877 2878 2800 2856 2857 2.65 2.65 2.576 2.576 2.577 2.582 2.592 2.592 2.592 2.592 0.5568 0.5568 0.5557 0.5568 0.5257 0.5576 0.5442 0.5577 0.5442 0.5577 0.516 0.5577 0.5577 0.516 0.5577	
47         48           48         49           50         51           51         52           53         54           55         55           56         66           61         62           62         63           64         66           65         66           66         66           67         73           73         74           75         76           77         77           80         81           82         84           85         84           85         88           89         90           90         91           92         33           93         94	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	884 884 984 985 985 884 884 884 884 884 884 884 884 884 8	10.78           10.78 </td <td>194 194 194 194 194 194 194 194 194 194</td> <td>1557 1577 1587 1587 1587 1582 2135 2155 2155 2155 2155 213 2149 2204 2142 2142 2142 2144 2204 2142 2144 2142 2144 2144</td> <td>1957 1857 1873 1873 1873 1873 1873 1873 1873 1873 1877 1877 1877 1877 1877 1877 1877 1877 2877 2878 2877 2877 2739 28777 2739 28777 2739 28777 2739 29777 2978 20781 207</td> <td></td>	194 194 194 194 194 194 194 194 194 194	1557 1577 1587 1587 1587 1582 2135 2155 2155 2155 2155 213 2149 2204 2142 2142 2142 2144 2204 2142 2144 2142 2144 2144	1957 1857 1873 1873 1873 1873 1873 1873 1873 1873 1877 1877 1877 1877 1877 1877 1877 1877 2877 2878 2877 2877 2739 28777 2739 28777 2739 28777 2739 29777 2978 20781 207	
47         48           48         49           50         50           51         52           52         53           54         55           56         56           57         58           60         61           62         63           63         67           70         74           77         76           63         70           77         77           78         60           81         82           82         83           84         85           87         78           89         90           91         92           92         93           34         49	1 1 1 1 1 TargetLocation 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FiFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	10.78           10.78 </td <td>194 194 194 194 194 194 194 194 194 194</td> <td>1557           1577           1577           1587           1587           1587           1587           1587           1587           1587           1587           1587           1587           2135           2135           2137           2149           2142           2142           2142           2142           2142           2155           0.4176           0.4484           0.5256           0.5175           0.4484           0.6288           0.6494           0.6288           0.6494           0.6288           0.6094           0.6286           0.8270           0.8286           0.8337           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.839</td> <td>1957 1857 1877 1873 RFMatrix-Viota 2578 2578 2578 2584 2600 2576 2577 2592 2576 2577 0593 0007 1002 1002 1002 1002 1002 1002 1002 1002 1022 10</td> <td></td>	194 194 194 194 194 194 194 194 194 194	1557           1577           1577           1587           1587           1587           1587           1587           1587           1587           1587           1587           1587           2135           2135           2137           2149           2142           2142           2142           2142           2142           2155           0.4176           0.4484           0.5256           0.5175           0.4484           0.6288           0.6494           0.6288           0.6494           0.6288           0.6094           0.6286           0.8270           0.8286           0.8337           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.8397           0.839	1957 1857 1877 1873 RFMatrix-Viota 2578 2578 2578 2584 2600 2576 2577 2592 2576 2577 0593 0007 1002 1002 1002 1002 1002 1002 1002 1002 1022 10	
47         48           48         49           50         53           51         55           53         54           55         55           56         56           60         61           62         63           64         65           66         66           67         73           73         74           75         78           80         63           81         82           83         81           82         83           80         90           91         93           92         93           94         95	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FFFrequencyMH2 50 50 50 50 50 50 50 50 50 50	884 884 984 985 985 885 885 885 885 885 885 885 885	10.78           10.78 </td <td>194 194 194 194 194 194 194 194 194 194</td> <td>1555           157           157           1587           1587           1587           1582           1582           1582           2135           2135           2135           2135           2135           2135           2137           2142           2142           2142           2142           0.447           0.5515           0.5516           0.5516           0.5517           0.4436           0.6504           0.6504           0.6504           0.6577           0.7254           0.8422           0.8423           0.8526           0.8276           0.8325           0.8305           0.8327           0.8308           0.8326           0.8327           0.8335           0.8326           0.8327           0.8308           0.8309           0.8317           1185           1144</td> <td>1957 1857 1877</td> <td></td>	194 194 194 194 194 194 194 194 194 194	1555           157           157           1587           1587           1587           1582           1582           1582           2135           2135           2135           2135           2135           2135           2137           2142           2142           2142           2142           0.447           0.5515           0.5516           0.5516           0.5517           0.4436           0.6504           0.6504           0.6504           0.6577           0.7254           0.8422           0.8423           0.8526           0.8276           0.8325           0.8305           0.8327           0.8308           0.8326           0.8327           0.8335           0.8326           0.8327           0.8308           0.8309           0.8317           1185           1144	1957 1857 1877	
47         48           48         49           50         55           52         53           54         55           55         56           60         61           61         62           63         64           65         65           64         65           65         63           70         71           72         73           74         75           76         60           80         63           81         82           82         83           84         86           88         89           91         91           92         93           93         94           95         96           96         96           97         77	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 FFFrequency.MH₂ 50 50 50 50 50 50 50 50 50 50	8.84 8.84 8.84 8.84 8.84 8.84 8.84 8.84	10.78           10.78 </td <td>194 194 194 194 194 194 194 194 194 194</td> <td>1557           1577           1577           1577           1577           1572           2135           2135           2135           2135           2135           2135           2137           2149           2142           2142           2142           2142           2145           0.4176           0.4446           0.5576           0.4496           0.5576           0.4496           0.6577           0.4496           0.6505           0.8604           0.6662           0.8626           0.8627           0.8305           0.8326           0.8256           0.8256           0.8226           0.8230           0.8377           0.8377           0.8377           0.8421           0.837           0.837           0.837           0.837           0.837           0.837           0.8</td> <td>1957 1857 1877 1877 1873 RFMat/Fk-V65 2578 2577 0568 05685 05685 05625 05577 0577 1002</td> <td></td>	194 194 194 194 194 194 194 194 194 194	1557           1577           1577           1577           1577           1572           2135           2135           2135           2135           2135           2135           2137           2149           2142           2142           2142           2142           2145           0.4176           0.4446           0.5576           0.4496           0.5576           0.4496           0.6577           0.4496           0.6505           0.8604           0.6662           0.8626           0.8627           0.8305           0.8326           0.8256           0.8256           0.8226           0.8230           0.8377           0.8377           0.8377           0.8421           0.837           0.837           0.837           0.837           0.837           0.837           0.8	1957 1857 1877 1877 1873 RFMat/Fk-V65 2578 2577 0568 05685 05685 05625 05577 0577 1002	
47         48           48         49           50         53           51         55           53         54           55         55           56         56           60         61           62         63           64         65           66         66           67         73           73         74           75         78           80         63           81         82           83         81           82         83           80         90           91         93           92         93           94         95	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FFFrequencyMH2 50 50 50 50 50 50 50 50 50 50	884 884 984 985 985 885 885 885 885 885 885 885 885	10.78           10.78 </td <td>194 194 194 194 194 194 194 194 194 194</td> <td>1555           157           157           1587           1587           1587           1582           1582           1582           2135           2135           2135           2135           2135           2135           2137           2142           2142           2142           2142           0.447           0.5515           0.5516           0.5516           0.5517           0.4436           0.6504           0.6504           0.6504           0.6577           0.7254           0.8422           0.8423           0.8526           0.8276           0.8325           0.8305           0.8327           0.8308           0.8326           0.8327           0.8335           0.8326           0.8327           0.8308           0.8309           0.8317           1185           1144</td> <td>1957 1857 1877</td> <td></td>	194 194 194 194 194 194 194 194 194 194	1555           157           157           1587           1587           1587           1582           1582           1582           2135           2135           2135           2135           2135           2135           2137           2142           2142           2142           2142           0.447           0.5515           0.5516           0.5516           0.5517           0.4436           0.6504           0.6504           0.6504           0.6577           0.7254           0.8422           0.8423           0.8526           0.8276           0.8325           0.8305           0.8327           0.8308           0.8326           0.8327           0.8335           0.8326           0.8327           0.8308           0.8309           0.8317           1185           1144	1957 1857 1877	

	TargetLocation								
101	1	LP2052-2	50	8.84	10.78	1.94	1.353	1.696	0
102	1	LP2052-2	50	8.84	10.78	1.94	1.551	1.876	1
103	1	LP2052-2 LP2052-2	50 50	8.84	10.78	1.94	1.539	1.861	1
105	1	LP2052-2	50	8.84	10.78	1.94	1.598	1.934	1
106	1	LP2052-2	50	8.84	10.78	1.94	1.589	1.923	+
107	1	LP2052-2	50	8.84	10.78	1.94	1.544	1.868	+
108	1	LP2052-2	50	8.84	10.78	1.94	1.632	1.975	
109	1	LP2052-2	50	8.84	10.78	1.94	1.623	1.964	
110	1	LP2052-2	50	8.84	10.78	1.94	1.516	1.834	
111	1	LP2052-2	50	8.84	10.78	1.94	1.933	2.456	
112	1	LP2052-2	50	8.84	10.78	1.94	2.126	2.573	
113	1	LP2052-2	50	8.84	10.78	1.94	2.196	2.658	
114	1	LP2052-2	50	8.84	10.78	1.94	2.24	2.709	
115	1	LP2052-2	50	8.84	10.78	1.94	2.188	2.645	
116	1	LP2052-2 LP2052-2	50	8.84	10.78	1.94	2.168	2.623	-
117	1	LP2052-2 LP2052-2	50 50	8.84 8.84	10.78	1.94	2.147 2.148	2.597	+
118	1	LP2052-2 LP2052-2	50	8.84	10.78	1.94	2.148	2.655	┢
120	1	LP2052-2	50	8.84	10.78	1.94	2.134	2.600	⊢
121	2	LP2052-1	50	8.84	9.835	0.995	0.5652	0.75636	+
122	2	LP2052-1	50	8.84	9.835	0.995	0.5927	0.7168	
123	2	LP2052-1	50	8.84	9.835	0.995	0.5878	0.7107	
124	2	LP2052-1	50	8.84	9.835	0.995	0.6402	0.7748	
125	2	LP2052-1	50	8.84	9.835	0.995	0.6314	0.7641	
126	2	LP2052-1	50	8.84	9.835	0.995	0.6403	0.7748	
127	2	LP2052-1	50	8.84	9.835	0.995	0.6246	0.7558	
128	2	LP2052-1	50	8.84	9.835	0.995	0.5915	0.7155	
129	2	LP2052-1	50	8.84	9.835	0.995	0.7009	0.9303	
130	2	LP2052-1	50	8.84	9.835	0.995	0.877	1.062	+
131	2	LP2052-1	50	8.84	9.835	0.995	0.8805	1.066	+
132	2	LP2052-1	50	8.84	9.835	0.995	0.893	1.081	+
133	2	LP2052-1	50	8.84	9.835	0.995	0.8136	0.984	
134 135	2	LP2052-1 LP2052-1	50 50	8.84 8.83	9.835 9.825	0.995 0.995	0.8021	0.9707	+
135	2	LP2052-1 LP2052-1	50	8.83	9.825	0.995	0.845	0.9981	⊢
136	2	LP2052-1 LP2052-1	50	8.83	9.825	0.995	0.8246	1.235	⊢
138	2	LP2052-1	50	8.83	9.825	0.995	1.115	1.235	┢
139	2	LP2052-1	50	8.83	9.825	0.995	1.175	1.421	+
140	2	LP2052-1	50	8.83	9.825	0.995	1.151	1.392	+
141	2	LP2052-1	50	8.83	9.825	0.995	1.11	1.344	
142	2	LP2052-1	50	8.83	9.825	0.995	1.128	2.364	
143	2	LP2052-1	50	8.83	9.825	0.995	1.101	1.333	
144	2	LP2052-1	50	8.83	9.825	0.995	1.175	1.423	
145	2	LP2052-1	50	8.83	9.825	0.995	1.305	1.737	
					9.825	0.995	1.623	1.065	
146	2	LP2052-1	50	8.83					
147	2	LP2052-1	50	8.83	9.825	0.995	1.57	1.901	
147 148	2	LP2052-1 LP2052-1	50 50	8.83 8.83	9.825 9.825	0.995 0.995	1.57 1.481	1.792	
147 148 149	2 2 2	LP2052-1 LP2052-1 LP2052-1	50 50 50	8.83 8.83 8.83	9.825 9.825 9.825	0.995 0.995 0.995	1.57 1.481 1.499	1.792 1.815	
147 148 149 150	2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50	8.83 8.83 8.83 8.83	9.825 9.825 9.825 9.825 9.825	0.995 0.995 0.995 0.995	1.57 1.481 1.499 1.558	1.792 1.815 1.886	
147 148 149 150	2 2 2	LP2052-1 LP2052-1 LP2052-1	50 50 50 50	8.83 8.83 8.83 8.83	9.825 9.825 9.825 9.825 9.825	0.995 0.995 0.995	1.57 1.481 1.499 1.558	1.792 1.815 1.886	5 Up
147 148 149 150 ShotNumber	2 2 2 2 TargetLocation	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice	50 50 50 50 RFFrequency-MHz	8.83 8.83 8.83 8.83 RFStartTime-us	9.825 9.825 9.825 9.825 9.825 RFStopTime-us	0.995 0.995 0.995 0.995 RFTotalDuration-us	1.57 1.481 1.499 1.558 RFAvgPk-Volts	1.792 1.815 1.886 RFMaxPk-Volt	5 Up
147 148 149 150 ShotNumber 151 152 153	2 2 2 TargetLocation 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1	50 50 50 8FFrequency-MHz 50 50 50	8.83 8.83 8.83 8.83 RFStartTime-us 8.83 8.83 8.83	9.825 9.825 9.825 9.825 RFStopTime-us 9.825 9.825 9.825 9.825	0.395 0.395 0.395 RFTotalDuration-us 0.395 0.395 0.395	1.57 1.481 1.558 RFAvgPk-Volts 1.6 1.508 2.032	1.792 1.815 1.886 RFMaxPk-Volt 1.937 1.823 2.709	5 Up
147 148 149 150 ihotNumber 151 152 153 154	2 2 2 TargetLocation 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 8FFrequency-MHz 50 50 50 50	8.83 8.83 8.83 8.83 RFStartTime-us 8.83 8.83 8.83 8.83 8.83	9.825 9.825 9.825 9.825 8.825 8.825 9.825 9.825 9.825 9.825 9.825 9.825	0.395 0.395 0.395 RFTotalDuration-us 0.395 0.395 0.395 0.395	1.57 1.481 1.558 RFAvgPk-Volts 1.6 1.508 2.032 2.112	1.792 1.815 1.886 RFMaxPk-Volt 1.937 1.823 2.709 2.557	5 Up
147 148 150 ihotNumber 151 152 153 154 155	2 2 2 TargetLocation 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50	8.83 8.83 8.83 RFStartTime-us 8.83 8.83 8.83 8.83 8.83 8.83	9.825 9.825 9.825 9.825 PFStopTime-us 9.825 9.825 9.825 9.825 9.825 9.825	0.995 0.995 0.995 PFT ot all/ur atton-us 0.995 0.995 0.995 0.995 0.995	1.57 1.481 1.499 1.558 RFAvgPk-Volts 1.508 2.032 2.112 2.093	1.792 1.815 1.886 PFMaxPk-Volt 1.937 1.823 2.709 2.557 2.533	5 Up
147 148 149 150 thotNumber 151 152 153 154 155 156	2 2 2 TargetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50	8.83 8.83 8.83 FIFStartTime-us 8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.8	9.825 9.825 9.825 9.825 FIFStopTime-us 9.825 9.825 9.825 9.825 9.825 9.825 9.825	0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395	1.57 1.481 1.499 1.558 RFAvgPk-Volts 1.508 2.032 2.112 2.093 2.096	1.792 1.815 1.886 BFMaxPk-Volt 1.937 1.823 2.709 2.557 2.533 2.537	
147 148 149 150 thotNumber 151 152 153 154 155 156 157	2 2 2 TargetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83 RFStartTime-us 8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.8	9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825	0.395 0.395 0.395 0.395 RFTotalDuration-us 0.395 0.395 0.395 0.395 0.395 0.395 0.395	1.57 1.481 1.433 1.558 PFAvgPk-Volts 1.6 1.508 2.032 2.112 2.093 2.093 2.258	1.792 1.815 1.886 FFMaxPk-Volt. 1.937 1.823 2.709 2.557 2.553 2.533 2.537 2.612	5 Up
147 148 149 150 hotNumber 151 152 153 154 155 156 156 157 158	2 2 2 TargetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.83	9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825	0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395	1.57 1.481 1.439 1.558 <b>FFAvgPk-Volts</b> 1.6 1.508 2.032 2.112 2.093 2.096 2.158 2.146	1.792 1.815 1.886 FFMaxPk-Volt 1.823 2.709 2.557 2.533 2.537 2.612 2.598	
147 148 149 150 hotNumber 151 152 153 154 155 156 155 156 157 158 159	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 RFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.83	9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825	0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995	1.57 1.481 1.439 1.558 PFAvgPk-Volts 1.6 1.508 2.032 2.112 2.033 2.032 2.112 2.093 2.158 2.158 2.146 2.081	1.792 1.815 1.886 PFMaxPk-Volk 1.937 1.823 2.709 2.557 2.533 2.537 2.612 2.598 2.518	
147 148 149 150 hotNumber 151 152 153 154 155 156 155 156 157 158 159 160	2 2 2 TargetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.83	9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825	0.395 0.395 0.395 1FF totalUration-us 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395	1.57 1.481 1.558 1.558 1.558 2.032 2.112 2.033 2.093 2.095 2.158 2.146 2.081 2.078	1.792 1.815 ISB6 ISFM as/Pk-Volt. 1.937 1.823 2.709 2.557 2.553 2.557 2.553 2.557 2.553 2.557 2.553 2.557 2.518 2.518	
147 148 149 150 151 152 153 154 155 156 155 156 157 158 159 160 161	2 2 2 TargetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.83	8.825 9.	0.395 0.395 0.395 FFT talDuration-us 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395	1.57 1.481 1.439 1.558 PFAugPk.Volts 1.6 1.508 2.032 2.032 2.032 2.033 2.096 2.158 2.146 2.081 2.046 2.078 2.478	1.792 1.815 1.886 PFMaxPk-Volt 1.937 1.823 2.709 2.557 2.533 2.537 2.537 2.537 2.512 2.518 2.515 3.303	
147 148 149 150 151 152 153 154 155 156 155 156 157 158 159 160 161 162	2 2 2 TargetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.83	9.825 9.825	0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385	1.57 1.481 1.499 1.558 RFAugPk-Volts 1.508 2.032 2.032 2.032 2.032 2.033 2.096 2.158 2.093 2.096 2.158 2.078 2.078 2.478 2.807	1.792 1.815 1.886 BFMaxPk-Volt 1.937 1.823 2.709 2.557 2.533 2.537 2.612 2.598 2.516 3.303 3.395	
147 148 149 150 hotNumber 151 152 153 154 155 155 155 155 158 159 160 161 162 163	2 2 7 arget.coation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFequency-MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.83	9.825 9.825	0.395 0.395 0.395 PFTotalDuration-us 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395	1157 1481 1493 1558 RFAugPk-Volts 16 1508 2.032 2.032 2.032 2.036 2.158 2.146 2.078 2.478 2.807 2.835	1.792 1.815 1.886 FFMaxPk-Volt 1.937 1.823 2.709 2.557 2.557 2.512 2.518 2.518 2.515 3.303 3.395 3.428	
147 148 149 150 hotNumber 151 152 153 154 155 156 155 156 157 158 159 160 161 162 163 164	2 2 7 argetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8,83 8,83 8,83 8,83 8,83 8,83 8,83 8,83	9 825 9.825	0.995 0.995 0.995 PFT ot all Duration-us 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995	157 1481 1483 1558 <b>RFAugPk-Volts</b> 18 2.032 2.112 2.033 2.036 2.158 2.033 2.096 2.158 2.078 2.078 2.078 2.078 2.078 2.078 2.081 2.078 2.081 2.078 2.835 2.835	1792 1.8/5 1.8/6 RFMaxPk-Volt 1.937 2.57 2.53 2.557 2.53 2.557 2.53 2.557 2.53 2.557 2.512 2.516 3.303 3.395 3.428 3.452	
147 148 149 150 hotNumber 151 152 153 154 155 156 157 158 157 158 157 158 159 160 161 161 162 163 164	2 2 2 7 argetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFequency-MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83 8.83 FFStatTime-us 8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.8	9.825 9.825	0.395 0.395 0.395 FTotalDuration-us 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395	157 1481 1439 1558 RFAugPk-Volts 16 2,032 2,158 2,033 2,033 2,033 2,033 2,033 2,033 2,033 2,033 2,035 2,835 2,835 2,856	1.732 1.876 1.886 PFMauPk-Volt 1.827 1.823 2.709 2.557 2.553 2.557 2.557 2.557 2.558 2.558 2.518 2.516 3.303 3.395 3.428 3.428 3.423	
147 148 150 hotNumber 151 152 153 154 155 155 156 157 158 159 160 161 162 163 164 165	2 2 7 argetLocation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFequenoyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8,83 8,83 8,83 8,83 8,83 8,83 8,83 8,83	9 825 9.825	0.995 0.995 0.995 PFT ot all Duration-us 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995	157 1481 1483 1558 <b>RFAugPk-Volts</b> 18 2.032 2.112 2.033 2.036 2.158 2.033 2.096 2.158 2.039 2.078 2.078 2.081 2.078 2.081 2.078 2.835 2.835	1792 1.8/5 1.8/6 RFMaxPk-Volt 1.937 2.57 2.53 2.557 2.53 2.557 2.53 2.557 2.53 2.557 2.512 2.516 3.303 3.395 3.428 3.452	
147 148 149 150 hotNumber 151 152 153 154 155 156 157 158 157 158 157 158 159 160 161 161 162 163 164	2 2 2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052	50 50 50 FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83 8.83 8.83 8.83 8.83 8.83 8.83	9.825 9.825	0.395 0.395 0.395 FFT-talDuration-us 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395	157 1481 1499 1558 8 <b>FF</b> AvgPk-Volts <b>FF</b> AvgPk-Volts 16 1500 2.032 2.102 2.096 2.169 2.096 2.169 2.096 2.473 2.091 2.073 2.473 2.607 2.635 2.652 2.855 2.855 2.855 2.395 2.302	1.792 1.816 1.886 RFMaa/Fk-Volt 1.837 2.853 2.853 2.853 2.853 2.858 2.858 2.518 2.518 3.303 3.395 3.428 3.452 3.862	
147 148 150 150 151 152 153 154 155 155 156 157 156 157 158 159 160 161 162 163 164 165 166 167	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052	50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 83 8 83	9.825 9.825	0.385 0.385	157 1481 1493 1586 1508 2032 215 2032 2032 2032 2033 2036 2032 2033 2036 2032 2033 2036 2032 2033 2036 2032 2033 2036 2032 2033 2036 2037 2036 2037 2037 2037 2037 2037 2037 2037 2037	1,792 1,885 1,886 1,886 1,886 1,887 1,823 2,709 2,557 2,553 2,557 2,558	
147 148 143 150 hotNumber 151 152 153 155 156 155 156 157 158 159 160 161 162 163 164 165 166 165 166 167 168 169	2 2 2 7 3 7 3 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-2	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 83 8 8 8 8	9.825 9.825	0.395 0.395 0.395 FTotalDuration-us 0.395	157 1481 1493 1493 1556 2032 2032 2032 2032 2033 2096 2158 2033 2096 2158 2033 2096 2458 2486 2033 2096 2478 2033 2096 2478 2035 2478 2035 2478 2035 2478 2035 2478 2035 2478 2035 2478 2035 2478 2035 2478 2035 2478 2035 2478 2035 2478 2478 2478 2478 2478 2478 2478 2478	1,792 1,815 1,886 1,886 1,823 1,823 2,507 2,557 2,553 2,557 2,553 2,558 2,558 2,558 2,558 2,558 2,558 2,558 2,558 3,303 3,428 3,422 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,544 3,423 3,545 3,5555 3,5555 3,5555 3,55555 3,55555 3,55555555	
147 148 149 150 hotNumber 151 152 153 154 155 156 157 158 157 158 157 158 160 161 162 163 164 165 166 165 166 166 167 171	2 2 2 7 3 raget.coation 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-2 LP2052	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83	9.825 9.825	0.395 0.395 0.395 FFTotalDuration-us 0.395	157 1481 1439 1558 16 1500 2.032 2.112 2.036 2.112 2.036 2.112 2.036 2.112 2.036 2.146 2.031 2.047 2.0	1,792 1,896 1,886 1,886 PFMat/Fk-Volt 1,823 2,709 2,557 2,557 2,557 2,557 2,557 2,558 2,558 2,558 2,558 2,558 3,342 3,452 3,452 3,452 3,452 3,452 3,541 3,541 1,055 1,151 1,056 1,006	
147 148 149 150 151 151 152 153 155 155 155 155 155 156 157 158 159 160 161 162 163 164 165 164 165 166 167 168 169 170 177	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052-1 LP2052-2 LP2052	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 83 8 83	9.825 9.825	0.385 0.395	157           1481           1483           1489           1586           2032           2032           2032           2032           2032           2032           2032           2032           2033           2036           2146           2079           2478           2852           2895           2996           2996           2996           2037           2852           2852           2862           2862           2862           2862           2869           0.8329           0.8329           0.8329	1,792 1,886 1,886 1,886 1,886 1,886 1,882 2,709 2,557 2,553 2,557 2,553 2,557 2,553 2,557 2,558 2,556 2,556 3,305 3,345 2,556 3,345 3,345 3,345 3,345 3,345 3,345 3,345 3,345 3,345 1,055	
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147         148           148         149           150         151           151         152           153         154           155         155           156         155           157         158           160         162           163         164           166         166           167         168           168         166           170         172           173         176           177         176           177         178           180         131           182         139           182         184	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8 83 8 83</td><td>9.825 9.825</td><td>0.385 0.395</td><td>157           1481           1483           1489           1586           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2035           2052           2052           2052           2055           2052           2052           2052           2053           300           2032           2055           2052           2052           2052           2053           2052           2052           2052           2053           0.8509           0.8509           0.8509           0.8509           0.8509           0.8509           0.8509           1023           1127           1213           1205           1225  </td><td>1.792 1.886 1.886 1.886 1.886 1.823 2.709 2.557 2.553 2.557 2.612 2.598 2.516 3.329 3.395 3.452 3.541 3.452 3.541 1.015 1.006 1.004 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.006 1.005 1.006 1.005 1.006 1.005 1.006 1.005 1.00 1.00</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 83 8 83	9.825 9.825	0.385 0.395	157           1481           1483           1489           1586           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2035           2052           2052           2052           2055           2052           2052           2052           2053           300           2032           2055           2052           2052           2052           2053           2052           2052           2052           2053           0.8509           0.8509           0.8509           0.8509           0.8509           0.8509           0.8509           1023           1127           1213           1205           1225	1.792 1.886 1.886 1.886 1.886 1.823 2.709 2.557 2.553 2.557 2.612 2.598 2.516 3.329 3.395 3.452 3.541 3.452 3.541 1.015 1.006 1.004 1.005 1.005 1.005 1.005 1.005 1.005 1.005 1.006 1.005 1.006 1.005 1.006 1.005 1.006 1.005 1.00 1.00	
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147 148 149 150 hotNumber hotNumber 151 152 155 156 157 156 157 158 158 159 160 161 162 163 164 165 163 164 165 166 167 168 165 166 167 170 171 173 174 175 176 177 177 178 179 177 178 177 178 179 179 179 179 179 179 179 179 179 179	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.83 8.83</td><td>9.825 9.825</td><td>0.395 0.395 0.395 FF totalDuration-us 0.395 0.39</td><td>157           1481           1483           1483           1489           156           2032           2032           2032           2032           2032           2033           2066           2032           2067           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2080           20819           0.8323           0.8321           0.8321           0.8321           0.8321           127           127           123           1205           1223           1265           127</td><td>1.792 1.886 1.886 1.886 1.886 1.885 2.557 2.557 2.557 2.557 2.553 2.557 2.558 2.558 2.558 2.558 2.558 3.342 3.452 3.452 3.452 3.452 3.452 3.452 3.452 3.452 3.452 3.452 1.151 1.056 1.042 1.006 1.042 1.05 1.006 1.042 1.05 1.06 1.042 1.05 1.06 1.042 1.05 1.06 1.042 1.05 1.05 1.06 1.042 1.15 1.365 1.448 1.535 1.45 1.42 1.438 1.55 1.45 1.42 1.43 1.43 1.43 1.43 1.43 1.43 1.43 1.43</td><td></td></t<>	50 50 50 FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.83 8.83	9.825 9.825	0.395 0.395 0.395 FF totalDuration-us 0.395 0.39	157           1481           1483           1483           1489           156           2032           2032           2032           2032           2032           2033           2066           2032           2067           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2073           2072           2080           20819           0.8323           0.8321           0.8321           0.8321           0.8321           127           127           123           1205           1223           1265           127	1.792 1.886 1.886 1.886 1.886 1.885 2.557 2.557 2.557 2.557 2.553 2.557 2.558 2.558 2.558 2.558 2.558 3.342 3.452 3.452 3.452 3.452 3.452 3.452 3.452 3.452 3.452 3.452 1.151 1.056 1.042 1.006 1.042 1.05 1.006 1.042 1.05 1.06 1.042 1.05 1.06 1.042 1.05 1.06 1.042 1.05 1.05 1.06 1.042 1.15 1.365 1.448 1.535 1.45 1.42 1.438 1.55 1.45 1.42 1.43 1.43 1.43 1.43 1.43 1.43 1.43 1.43	
147 149 149 149 150 151 153 154 155 155 156 157 158 159 160 161 161 162 163 164 165 163 164 165 163 164 165 163 163 163 163 163 163 163 163 163 163	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8 83 8 83</td><td>9.825 9.825</td><td>0.385 0.395</td><td>157           1481           1483           1489           1586           2022           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2035           2852           2855           2855           2862           2823           0.8339           0.8339           0.8339           0.8339           0.8339           0.8339           1.083           1.172           1.213           1.205           1.77           1.83           1.843           1.853           1.7           1.863           1.774           1.684           2.474           2.385</td><td>1.792 1.886 1.886 1.886 1.886 1.823 2.709 2.557 2.553 2.557 2.612 2.558 2.558 2.558 2.558 3.342 2.558 3.345 3.34 3.34</td><td></td></t<>	50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 83 8 83	9.825 9.825	0.385 0.395	157           1481           1483           1489           1586           2022           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2035           2852           2855           2855           2862           2823           0.8339           0.8339           0.8339           0.8339           0.8339           0.8339           1.083           1.172           1.213           1.205           1.77           1.83           1.843           1.853           1.7           1.863           1.774           1.684           2.474           2.385	1.792 1.886 1.886 1.886 1.886 1.823 2.709 2.557 2.553 2.557 2.612 2.558 2.558 2.558 2.558 3.342 2.558 3.345 3.34 3.34	
147 148 149 149 150 153 154 155 155 156 157 158 157 158 159 150 160 161 161 162 163 164 165 166 167 163 164 165 166 167 168 165 166 167 170 171 172 176 176 177 176 177 176 177 176 177 178 189 183 183 183 183 183 183 183 183 183 183	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IP2052-1           IP2052-2           IP2052-2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8 83 8 83</td><td>9.825 9.825</td><td>0.395 0.395</td><td>157 1441 1433 1556 2032 2.112 2.032 2.033 2.095 2.162 2.162 2.162 2.162 2.162 2.162 2.162 2.162 2.163 2.033 2.095 2.478 2.031 2.478 2.031 2.478 2.395 2.825</td><td>1.792 1.886 1.886 1.886 1.886 1.823 2.709 2.557 2.553 2.557 2.558 2.558 2.558 2.558 2.558 3.503 3.395 3.303 3.395 3.342 3.452 3.303 3.395 3.342 3.452 3.344 3.452 3.354 1.151 1.006 1.002 1.15 1.006 1.002 1.15 1.006 1.002 1.15 1.006 1.002 1.15 1.385 1.448 1.458 1.47 2.001 2.057 2.002 2.04 2.026 2.01 2.554 2.282 2.883 2.88</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8 83 8 83	9.825 9.825	0.395 0.395	157 1441 1433 1556 2032 2.112 2.032 2.033 2.095 2.162 2.162 2.162 2.162 2.162 2.162 2.162 2.162 2.163 2.033 2.095 2.478 2.031 2.478 2.031 2.478 2.395 2.825	1.792 1.886 1.886 1.886 1.886 1.823 2.709 2.557 2.553 2.557 2.558 2.558 2.558 2.558 2.558 3.503 3.395 3.303 3.395 3.342 3.452 3.303 3.395 3.342 3.452 3.344 3.452 3.354 1.151 1.006 1.002 1.15 1.006 1.002 1.15 1.006 1.002 1.15 1.006 1.002 1.15 1.385 1.448 1.458 1.47 2.001 2.057 2.002 2.04 2.026 2.01 2.554 2.282 2.883 2.88	
147 149 149 149 150 151 153 154 155 155 156 157 158 159 160 161 161 162 163 164 165 163 164 165 163 164 165 163 163 163 163 163 163 163 163 163 163	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8 83 8 83</td><td>9.825 9.825</td><td>0.385 0.395</td><td>157           1481           1483           1489           1586           2022           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2035           2852           2855           2862           2823           0.8339           0.8339           0.8339           0.8339           0.8339           0.8339           1.083           1.172           1.213           1.205           1.77           1.83           1.633           1.774           1.643           1.774           1.652           1.774           1.654           1.674           1.682           2.379</td><td>1.792 1.886 1.886 1.886 1.886 1.823 2.709 2.557 2.553 2.557 2.612 2.558 2.558 2.558 2.558 3.342 2.558 3.345 3.34 3.34</td><td></td></t<>	50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 83 8 83	9.825 9.825	0.385 0.395	157           1481           1483           1489           1586           2022           2032           2032           2032           2032           2032           2032           2032           2032           2032           2032           2035           2852           2855           2862           2823           0.8339           0.8339           0.8339           0.8339           0.8339           0.8339           1.083           1.172           1.213           1.205           1.77           1.83           1.633           1.774           1.643           1.774           1.652           1.774           1.654           1.674           1.682           2.379	1.792 1.886 1.886 1.886 1.886 1.823 2.709 2.557 2.553 2.557 2.612 2.558 2.558 2.558 2.558 3.342 2.558 3.345 3.34 3.34	

201	TargetLocation 2	LP2052-2	50	8.83	9.825	0.995	2.724	3.158	
202	2	LP2052-2	50	8.83	9.825	0.995	2.124	3.469	+
203	2	LP2052-2	50	8.83	9.825	0.995	3.234	3.912	
204	2	LP2052-2	50	8.83	9.825	0.995	3.176	3.845	
205	2	LP2052-2	50 50	8.83	9.825	0.995	3.203	3.876	+
206 207	2	LP2052-2 LP2052-2	50	8.83	9.825 9.825	0.995 0.995	3.212 3.257	3.888 3.941	+
208	2	LP2052-2	50	8.83	9.825	0.995	3.286	3.974	+
209	3	LP2052-1	50	9.825	10.82	0.995	1.129	1.505	+
210	3	LP2052-1	50	9.825	10.82	0.995	1.213	1.468	
211	3	LP2052-1	50	9.825	10.82	0.995	1.243	1.504	
212	3	LP2052-1	50	9.825	10.82	0.995	1.187	1.436	
213	3	LP2052-1	50	9.825	10.82	0.995	1.225	1.483	+
214 215	3	LP2052-1 LP2052-1	50 50	9.825 9.825	10.82	0.995	1.263	1.527	+
215	3	LP2052-1	50	9.825	10.82	0.995	1.210	1.474	+
217	3	LP2052-1	50	9.825	10.82	0.995	1.522	2.029	+
218	3	LP2052-1	50	9.825	10.82	0.995	1.753	2.122	+
219	3	LP2052-1	50	9.825	10.82	0.995	1.713	2.072	
220	3	LP2052-1	50	9.825	10.82	0.995	1.699	2.056	
221	3	LP2052-1	50	9.825	10.82	0.995	2.703	2.062	
222	3	LP2052-1	50	9.825	10.82	0.995	1.689	2.043	+
223	3	LP2052-1	50 50	9.825	10.82	0.995	1.703	2.059	+
224	3	LP2052-1 LP2052-1	50	9.825	10.82	0.995 0.995	1.696 2.137	2.053 2.842	+
226	3	LP2052-1	50	9.825	10.82	0.995	2.088	2.525	+
227	3	LP2052-1	50	9.825	10.82	0.995	2.062	2.495	+
228	3	LP2052-1	50	9.825	10.82	0.995	2.07	2.505	+
229	3	LP2052-1	50	9.825	10.82	0.995	2.115	2.557	
230	3	LP2052-1	50	9.825	10.82	0.995	2.114	2.556	ſ
231	3	LP2052-1	50	9.825	10.82	0.995	2.162	2.616	+
232	3	LP2052-1	50	9.825	10.82	0.995	2.108	2.551	+
233 234	3	LP2052-2 LP2052-2	50 50	9.825 9.825	10.82	0.995	1.109	1.478	+
234	3	LP2052-2 LP2052-2	50	9.825	10.82	0.995	1.249	1.509	+
236	3	LP2052-2	50	9.825	10.82	0.995	1.234	1.493	+
237	3	LP2052-2	50	9.825	10.82	0.995	1.24	1.5	
238	3	LP2052-2	50	9.825	10.82	0.995	1.211	1.465	T
239	3	LP2052-2	50	9.825	10.82	0.995	1.223	1.48	1
240	3	LP2052-2	50	9.825	10.82	0.995	1.247	1.509	+
241	3	LP2052-2	50	9.825	10.82	0.995	1.566	2.085	+
242 243	3	LP2052-2 LP2052-2	50 50	9.825 9.825	10.82	0.995	1.731	2.093	+
243	3	LP2052-2	50	9.825	10.82	0.995	1.714	2.032	+
245	3	LP2052-2	50	9.825	10.82	0.995	1.709	2.066	+
246	3	LP2052-2	50	9.825	10.82	0.995	1.74	2.106	+
247	3	LP2052-2	50	9.825	10.82	0.995	1.742	2.109	
248	3	LP2052-2	50	9.825	10.82	0.995	1.77	2.139	
249	3	LP2052-2 LP2052-2	50	9.825	10.82	0.995	2.464	2.982	
249 250	3 3 3	LP2052-2 LP2052-2 LP2052-2	50 50	9.825 9.825	10.82 10.82	0.995	2.464 2.081	2.982 2.428	
249 250 iotNumber	3 3 3 TargetLocation	LP2052-2 LP2052-2 LP2052-2 TestDevice	50 50 RFFrequency-MHz	9.825 9.825 RFStartTime-us	10.82 10.82 RFStopTime-us	0.995 0.995 RFTotalDuration-us	2.464 2.081 RFAvgPk-Volts	2.982 2.428 RFMaxPk-Vol	ts U
249 250 iotNumber 251	3 3 3 TargetLocation 3	LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2	50 50 RFFrequency-MHz 50	9.825 9.825 RFStartTime-us 9.825	10.82 10.82 RFStopTime-us 10.82	0.995 0.995 RFTotalDuration-us 0.995	2.464 2.081 RFAvgPk-Volts 2.426	2.982 2.428 RFMaxPk-Vol 2.935	ts U
249 250 iotNumber 251 252	3 3 TargetLocation 3 3	LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2	50 50 RFFrequency-MHz 50 50	9.825 9.825 RFStartTime-us 9.825 9.825	10.82 10.82 RFStopTime-us 10.82 10.82	0.995 0.995 RFTotalDuration-us 0.995 0.995	2.464 2.081 RFAvgPk-Volts 2.426 2.466	2.982 2.428 RFMaxPk-Vol 2.935 2.982	ts U
249 250 iotNumber 251	3 3 3 TargetLocation 3	LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2	50 50 RFFrequency-MHz 50	9.825 9.825 RFStartTime-us 9.825	10.82 10.82 RFStopTime-us 10.82	0.995 0.995 RFTotalDuration-us 0.995	2.464 2.081 RFAvgPk-Volts 2.426	2.982 2.428 RFMaxPk-Vol 2.935	ts U
249 250 otNumber 251 252 253	3 3 TargetLocation 3 3 3	LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2	50 50 BFFrequency-MHz 50 50 50	9.825 9.825 RFStartTime-us 9.825 9.825 9.825	10.82 10.82 RFStopTime-us 10.82 10.82 10.82	0.995 0.995 RFTotalDuration-us 0.995 0.995 0.995	2.464 2.081 RFAvgPk-Volts 2.426 2.466 2.434	2.982 2.428 RFMaxPk-Vol 2.935 2.982 2.982 2.943	ts U
249 250 iotNumber 251 252 253 253 254	3 3 TargetLocation 3 3 3 3 3	LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 BFFrequency-MHz 50 50 50 50	9.825 9.825 RFStartTime-us 9.825 9.825 9.825 9.825 9.825	10.82 10.82 RFStopTime-us 10.82 10.82 10.82 10.82	0.995 0.995 BFTotalDuration-us 0.995 0.995 0.995 0.995	2.464 2.081 RFAvgPk-Volts 2.426 2.466 2.434 2.463	2.982 2.428 RFMaxPk-Vol 2.935 2.982 2.943 2.978	ts U
249 250 10tNumber 251 252 253 254 255 256 256 257	3 3 TargetLocation 3 3 3 3 3 3 3 3 5	LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1	50 50 FIFFrequency-MHz 50 50 50 50 50 50 50	9.825 9.825 RFStartTime-us 9.825 9.825 9.825 9.825 9.825 9.825 9.825 8.825 8.86	10.82 10.82 FFStopTime-us 10.82 10.82 10.82 10.82 10.82 10.82 10.82 3.34	0.395 0.395 RFTotalDuration-us 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395	2.464 2.081 RFAugPk-Volts 2.426 2.434 2.463 2.448 2.463 2.448 2.468 1.471	2.982 2.428 PFMaxPk-Vol 2.935 2.982 2.943 2.978 2.962 2.987 1.949	
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249 250 250 251 252 252 253 254 255 256 256 256 256 256 256 256 266 266	3 3 3 3 3 3 3 3 3 3 3 3 3 3	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2052	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.826 9.865	1082 1082 1082 1082 1082 1082 1082 1082	0.995 0.935 76FTotalDuration-us 0.935 0.948 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.	2444 248 18 18 18 249 249 249 249 249 249 249 249 249 249	2.982 2.428 FIF-MaxP-X-Vol 2.305 2.392 2.943 2.982 2.943 2.962 2.943 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.057 2.021 1.949 2.301 2.974 2.931 2.972 2.931 2.974 2.933 2.879 2.931 2.874 2.839 2.872 2.892 2.892 2.893 3.074 3.324 3.376 3.324 3.376 3.324 3.376 3.324 3.376 3.325 5.03 5.00 5.00 5.00 5.00 5.00 5.00 5.0	
249 250 cot/Jumber 251 252 253 255 255 255 255 255 255 255 255	3 3 3 3 3 3 3 3 3 3 3 3 3 3	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2052	50 50 FIFFrequency.MH₂ 50 50 50 50 50 50 50 50 50 50	9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.825 9.826 9.886 8.886	1082 1082 1082 1082 1082 1082 1082 1082	0.995 0.995 FFTotalDuration-us 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	2444 2.041 PFAvgPk.Volt2 2.426 2.426 2.434 2.445 2.445 2.445 2.445 2.445 1.471 1.677 1.667 1.708 1.70 1.709 1.70 1.651 1.701 1.651 1.71 1.651 1.72 2.452 2.445 2.452 2.557 2.557 2.557 2.557 2.557 2.5572	2.982 2.428 PFMat/Pk-Vol 2.395 2.982 2.982 2.982 2.982 2.982 2.982 2.982 2.982 2.982 2.982 2.982 2.967 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.057	
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249 250 250 250 251 252 252 255 255 255 255 255 255 255	3 3 3 3 3 3 3 3 3 3 3 3 3 3	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053	50 50 FIFFrequency.MHz 50 50 50 50 50 50 50 50 50 50	9.825 9.855 9.855 9.826 9.855	1082 1082 1082 1082 1082 1082 1082 1082	0.995 0.995 FF TotalUration-us 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.935 0.935 0.935 0.935 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	2444 2.081 FFAvgPk.Voh2 2.426 2.426 2.434 2.448 2.448 2.448 2.448 2.448 1.471 1.677 1.709 1.7 1.664 1.674 1.674 1.674 1.674 1.674 1.674 1.674 1.674 1.674 1.674 2.449 2.35 2.345 2.345 2.345 2.345 2.336 2.338 2.433 2.433 2.435 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.336 2.348 2.339 2.348 2.348 2.339 2.348 2.348 2.339 2.348 2.349 2.348 2.349 2.348 2.349 2.348 2.349 2.348 2.349 2.348 2.349 2.348 2.349 3.357 3.357 3.557 3.557	2.982 2.428 PFMat/Fk-Vol 2.935 2.982 2.982 2.982 2.982 2.982 2.982 2.982 2.982 2.982 2.01 2.067 2.0577 2.057 2.057 2.0577 2.0577 2.0577 2.0577 2.05777 2.057777770	
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249 249 250 250 250 251 252 252 255 255 256 256 256 256 256 256	3 3 3 3 3 3 3 3 3 3 3 3 3 3	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2052	50 50 70 70 70 50 50 50 50 50 50 50 50 50 50 50 50 50	9.9275 9.8275 9.8275 9.8275 9.8275 9.8275 9.8275 9.8275 9.8275 9.8275 9.8275 9.8275 9.8275 9.825 9.85 9.855	1082 1082 1082 1082 1082 1082 1082 1082	0.995 0.995 FIFTotalDuration-us 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.995 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	2444 2481 FFAygPk-Volt2 2485 2446 2446 2443 2446 2446 2446 2448 2448 2448 2448 2448	2.982 2.428 PFMat/PVol 2.395 2.982 2.982 2.982 2.982 2.982 2.987 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.067 2.057	

								RFMaxPk-Vol	
301	5	LP2052-2	50	8.86	9.34	0.48	1.43	1.731	
302	5	LP2052-2	50	8.86	9.34	0.48	1.385	1.676	- (
303	5	LP2052-2	50	8.86	9.34	0.48	1.372	1.66	1
304	5	LP2052-2	50	8.86	9.34	0.48	1.421	1.72	-
305	5	LP2052-2	50	8.86	9.34	0.48	1.698	2.265	
			50			0.48			
306	5	LP2052-2		8.86	9.34		1.891	2.288	+
307	5	LP2052-2	50	8.86	9.34	0.48	1.874	2.264	$\perp$
308	5	LP2052-2	50	8.86	9.34	0.48	1.841	2.229	1
309	5	LP2052-2	50	8.86	9.34	0.48	1.931	2.337	1
310	5	LP2052-2	50	8.86	9.34	0.48	1.862	2.254	
311	5	LP2052-2	50	8.86	9.34	0.48	1.921	2.322	
312	5	LP2052-2	50	8.86	9.34	0.48	1.883	2.277	+
313	5	LP2052-2	50	8.86	9.34	0.48	2.218	2.645	+
314	5	LP2052-2	50	8.86	9.34	0.48	2.654	3.209	
315	5	LP2052-2	50	8.86	9.34	0.48	2.615	3.165	
316	5	LP2052-2	50	8.86	9.34	0.48	2.63	3.182	
317	5	LP2052-2	50	8.86	9,34	0.48	2.5	3.026	
318	5	LP2052-2	50	8.86	9.34	0.48	2.539	3.073	+
319			50		9.34		2.585		
	5	LP2052-2		8.86		0.48		3.129	_
320	5	LP2052-2	50	8.86	9.34	0.48	2.434	2.946	
321	5	LP2052-2	50	8.86	9.34	0.48	2.968	3.688	
322	5	LP2052-2	50	8.86	9.34	0.48	3.55	4.296	
323	5	LP2052-2	50	8.86	9.34	0.48	3.455	4.181	
324	5	LP2052-2	50	8.86	9.34	0.48	3.514	4.252	+
325	5	LP2052-2	50	8.86	9.34	0.48	3.441	2.165	
			50	8.86	9.34	0.48			+
326	5	LP2052-2					3.578	4.329	+
327	5	LP2052-2	50	8.86	9.34	0.48	3.422	4.154	+
328	5	LP2052-2	50	8.86	9.34	0.48	3.552	4.299	
329	5	LP2052-2	50	8.86	9.34	0.48	3.493	4.597	
330	5	LP2052-2	50	8.86	9.34	0.48	4.406	5.332	
331	5	LP2052-2	50	8.86	9.34	0.48	4.456	5.393	-
332	5	LP2052-2	50	8.86	9.34	0.48	4.629	5.595	+
333	5	LP2052-2	50	8.86	9.34	0.48	4.14	5.007	+
334	5	LP2052-2	50	8.86	9.34	0.48	4.235	5.124	+
335	5	LP2052-2	50	8.86	9.34	0.48	4.421	5.352	_
336	5	LP2052-2	50	8.86	9.34	0.48	4.691	5.677	
337	6	LP2052-1	50	8.86	9.1	0.24	2.894	3.858	
338	6	LP2052-1	50	8.86	9.1	0.24	3.217	3.894	
339	6	LP2052-1	50	8.86	9.1	0.24	3.124	3.778	+
340	6	LP2052-1	50	8.86	9.1	0.24	3.142	3.802	+
341	6	LP2052-1	50	8.86	9.1	0.24	3.191	3.862	_
342	6	LP2052-1	50	8.86	9.1	0.24	3.21	3.882	_
343	6	LP2052-1	50	8.86	9.1	0.24	3.193	3.864	
344	6	LP2052-1	50	8.86	9.1	0.24	3.244	3.926	
345	6	LP2052-1	50	8.86	9.1	0.24	3.134	3.79	
					9.1	0.24	4.257	5.153	+
		LP2052.1	50	8.8F					1
346	6	LP2052-1	50	8.86				5 100	
346 347	6	LP2052-1	50	8.86	9.1	0.24	4.282	5.182	
346 347 348	6 6 6	LP2052-1 LP2052-1	50 50	8.86 8.86	9.1 9.1	0.24 0.24	4.282 4.281	5.181	
346 347 348 349	6 6 6 6	LP2052-1 LP2052-1 LP2052-1	50 50 50	8.86 8.86 8.86	9.1 9.1 9.1	0.24 0.24 0.24	4.282 4.281 4.281	5.181 5.181	
346 347 348 349 350	6 6 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50	8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 0.24	4.282 4.281 4.281 4.529	5.181 5.181 5.482	
346 347 348 349	6 6 6 6	LP2052-1 LP2052-1 LP2052-1	50 50 50	8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1	0.24 0.24 0.24	4.282 4.281 4.281 4.529	5.181 5.181 5.482	
346 347 348 349 350	6 6 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50	8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 0.24	4.282 4.281 4.281 4.529	5.181 5.181 5.482	is Up
346 347 348 349 350 hotNumber 351	6 6 6 6 TargetLocation 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1	50 50 50 BFFrequency-MHz 50	8.86 8.86 8.86 8.86 RFStartTime-us	9.1 9.1 9.1 9.1 RFStopTime-us 9.1	0.24 0.24 0.24 0.24 RFTotalDuration-us 0.24	4.282 4.281 4.281 4.529 BFAvgPk-Volts 4.261	5.181 5.181 5.482 RFMaxPk-Vol 5.154	is Up
346 347 348 349 350 hotNumber 351 352	6 6 6 7argetLocation 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1	50 50 50 8FFrequency-MHz 50 50	8.86 8.86 8.86 RFStartTime-us 8.86 8.86	9.1 9.1 9.1 BFStopTime-us 9.1 9.1	0.24 0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24	4.282 4.281 4.529 RFAvgPk-Volts 4.261 4.31	5.181 5.181 5.482 RFMaxPk-Vol 5.154 5.216	is Up
346 347 348 349 350 hotNumber 351 352 353	6 6 6 TargetLocation 6 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1	50 50 50 RFFrequency-MHz 50 50 50	8.86 8.86 8.86 8.86 RFStartTime-us 8.86 8.86 8.86	9.1 9.1 9.1 RFStopTime-us 9.1 9.1 9.1	0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24	4.282 4.281 4.281 4.529 RFAvgPk-Volts 4.261 4.31 4.942	5.181 5.181 5.482 RFMaxPk-Vol 5.154 5.216 5.38	is Up
346 347 348 350 350 351 351 352 353 354	6 6 6 7argetLocation 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 8FFrequency-MHz 50 50 50 50	8.86 8.86 8.86 8.86 RFStartTime-us 8.86 8.86 8.86 8.86	9.1 9.1 9.1 RFStopTime-us 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24 0.24	4.282 4.281 4.529 RFAvgPk-Volts 4.261 4.31 4.942 5.548	5.181 5.181 5.482 RFMaxPk-Vol 5.154 5.216 5.98 6.715	:s Up
346 347 348 349 350 hotNumber 351 352 353 354 355	6 6 6 7 argetLocation 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50	8.86 8.86 8.86 RFStartTime-us 8.86 8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24 0.24 0.24	4.282 4.281 4.529 RFAvgPk-Volts 4.261 4.31 4.31 5.548 5.025	5.181 5.482 RFMaxPk-Vol 5.154 5.216 5.38 6.715 6.082	s Up
346 347 348 350 350 351 351 352 353 354 355 356	6 6 6 7 argetLocation 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50	8.86 8.86 8.86 FIFStartTime-us 8.86 8.86 8.86 8.86 8.86 8.86	9.1 9.1 9.1 RFStopTime-us 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4.282 4.281 4.529 BFAvgPk-Volts 4.261 4.31 4.942 5.548 5.025 5.667	5.181 5.181 5.482 PFMaxPk-Vol 5.154 5.216 5.38 6.715 6.082 6.858	:s Up
346 347 348 349 350 hotNumber 351 352 353 354 355	6 6 6 7 argetLocation 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50	8.86 8.86 8.86 RFStartTime-us 8.86 8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24 0.24 0.24	4.282 4.281 4.529 RFAvgPk-Volts 4.261 4.31 4.31 5.548 5.025	5.181 5.482 RFMaxPk-Vol 5.154 5.216 5.38 6.715 6.082	:s Up
346 347 348 349 350 hotNumber 351 352 353 354 355 356 356 357	6 6 7 argetLocation 6 6 6 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.86 8.86 8.86 FIFStartTime-us 8.86 8.86 8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4.282 4.281 4.281 4.529 PFAvgPk-Volts 4.261 4.31 4.342 5.548 5.667 5.603	5.181 5.181 5.482 BFMaxPk-Vol 5.154 5.216 5.38 6.715 6.082 6.858 6.055	:s Up
346 347 348 350 hotNumber 351 352 353 354 355 355 356 357 358	6 6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50 50 50	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4.282 4.281 4.529 FFAvgPk-Volts 4.261 4.31 4.942 5.548 5.025 5.667 5.003 5.533	5.181 5.181 5.482 PFMaxPk-Vol 5.216 5.28 6.715 6.082 6.858 6.055 6.696	
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346         347           347         348           349         350           550         355           351         352           352         355           355         355           356         355           356         356           356         356           356         357           358         360           361         362           362         363           364         365           368         367           369         369           370         371           374         375	6 6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 9.54art Time-us PFStart Time-us 9.54art 3.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95 8</td><td>9.1         9.1           9.1         9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,261 4,342 5,468 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 2,859 2,255</td><td>5.181 5.181 5.482 5.482 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.217 5.216 5.217 5.216 5.217 5.216 5.217 5.216 5.217 5.216 5.217 5.216 5.226 5.227 5.217 5.216 5.227 5.216 5.227 5.216 5.227 5.216 5.227 5.216 5.227 5.216 5.227 5.227 5.22755 5.22755 5.22755 5.22755 5.22755 5.22755 5.227555 5.22755555 5.2275</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 9.54art Time-us PFStart Time-us 9.54art 3.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95 8	9.1         9.1           9.1         9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,261 4,342 5,468 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 2,859 2,255	5.181 5.181 5.482 5.482 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.217 5.216 5.217 5.216 5.217 5.216 5.217 5.216 5.217 5.216 5.217 5.216 5.226 5.227 5.217 5.216 5.227 5.216 5.227 5.216 5.227 5.216 5.227 5.216 5.227 5.216 5.227 5.227 5.22755 5.22755 5.22755 5.22755 5.22755 5.22755 5.227555 5.22755555 5.2275	
946 947 948 949 950 950 950 950 955 955 955 955 955 95	6 6 7 argetLocation 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-2 LP205-	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 95 8 96 8 96 8 986 8 9	9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,281 4,281 4,281 4,281 5,548 5,548 5,548 5,548 5,548 5,548 5,548 5,548 5,553 5,553 2,255 2,255	5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.715 6.628 6.628 6.628 6.6385 6.6385 6.6385 6.6385 6.6385 6.6385 6.6387 6.727 2.373 3.006 6.727 3.193 3.005 3.001 3.213 3.002 3.007 5.300 3.001 3.213 3.002 5.005	
346         347           343         348           349         350           350         350           351         352           353         352           354         355           355         356           356         357           358         356           362         353           363         367           358         366           362         363           362         363           364         365           365         367           366         370           371         372           374         375           376         377           376         377	6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1         9.1           9.1         9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,425 5,667 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,553 2,255</td><td>5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.705 6.082 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.897 6.727 2.373 3.030 6.727 2.373 3.030 3.011 3.021 3.030 3.011 3.021 3.035 3.075 3.005 3.075 3.075 4.313 3.075 5.055 4.315 5.055 5.133 5.133</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1         9.1           9.1         9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,425 5,667 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,553 2,255	5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.705 6.082 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.897 6.727 2.373 3.030 6.727 2.373 3.030 3.011 3.021 3.030 3.011 3.021 3.035 3.075 3.005 3.075 3.075 4.313 3.075 5.055 4.315 5.055 5.133 5.133	
946 947 948 949 950 950 950 950 955 955 955 955 955 95	6 6 7 argetLocation 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-2 LP205-	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 95 8 96 8 96 8 986 8 9	9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,281 4,281 4,281 4,281 5,548 5,548 5,548 5,548 5,548 5,548 5,548 5,548 5,553 5,553 2,255 2,255	5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.715 6.628 6.628 6.628 6.6385 6.6385 6.6385 6.6385 6.6385 6.6385 6.6387 6.727 2.373 3.006 6.727 3.193 3.005 3.001 3.213 3.002 3.007 5.300 3.001 3.213 3.002 5.005	
346         347           343         348           349         350           350         350           351         352           353         352           354         355           355         356           356         357           358         356           359         358           361         358           362         363           361         362           362         363           366         367           368         367           370         372           377         376           377         376           377         376           377         377	6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1         9.1           9.1         9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,425 5,667 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,553 2,255</td><td>5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.705 6.082 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.897 6.727 2.373 3.030 6.727 2.373 3.030 3.011 3.021 3.030 3.011 3.021 3.035 3.075 3.005 3.075 3.075 4.313 3.075 5.055 4.315 5.055 5.133 5.133</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1         9.1           9.1         9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,425 5,667 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,553 2,255	5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.705 6.082 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.895 6.897 6.727 2.373 3.030 6.727 2.373 3.030 3.011 3.021 3.030 3.011 3.021 3.035 3.075 3.005 3.075 3.075 4.313 3.075 5.055 4.315 5.055 5.133 5.133	
946 947 947 948 949 950 950 955 955 955 955 955 955 956 957 956 957 956 957 958 959 959 959 959 959 959 959 959 959	6 6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1           9.1           9.1           9.1           8.1           9.1      9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,261 4,261 4,261 4,261 5,548 5,566 7,567 7,567</td><td>5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.275 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 0.07 6.237 3.103 3.004 3.005 3.001 3.002 4.493 3.005 4.493 4.505 5.139 4.505 5.036 5.5139 5.517 5.515 5.5175 5.5175 5.51</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1           9.1           9.1           9.1           8.1           9.1      9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,261 4,261 4,261 4,261 5,548 5,566 7,567 7,567	5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.275 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 0.07 6.237 3.103 3.004 3.005 3.001 3.002 4.493 3.005 4.493 4.505 5.139 4.505 5.036 5.5139 5.517 5.515 5.5175 5.5175 5.51	
946 947 948 949 950 950 955 955 955 955 955 955 955 95	6 6 6 7argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 9.94 9.94 9.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1           9.1      9.1  </td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,342 5,484 5,484 5,484 5,565 5,565 7,500 2,253 2,253 2,253 2,253 2,253 2,253 2,255</td><td>5.191 5.191 5.482 5.482 5.246 5.246 5.246 6.025 6.085 6.085 6.085 6.085 6.087 6.2379 3.183 3.005 6.087 6.2379 3.183 3.001 3.001 3.001 3.002 3.004 4.303 3.005 4.313 4.325 5.051 5.036 5.133 5.117 5.933 6.61 6.632 6.832</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 9.94 9.94 9.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1           9.1      9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,342 5,484 5,484 5,484 5,565 5,565 7,500 2,253 2,253 2,253 2,253 2,253 2,253 2,255	5.191 5.191 5.482 5.482 5.246 5.246 5.246 6.025 6.085 6.085 6.085 6.085 6.087 6.2379 3.183 3.005 6.087 6.2379 3.183 3.001 3.001 3.001 3.002 3.004 4.303 3.005 4.313 4.325 5.051 5.036 5.133 5.117 5.933 6.61 6.632 6.832	
946 947 947 948 949 950 950 951 955 955 955 955 955 955 955 955 955	6 6 7 argetLocation 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 80 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.85 8.85 8.86 8.86 9.86 9.86 8.86 8.86 8.85 8.85 8.85 8.85 8.85 8</td><td>9.1         9.1           9.1         9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,31 5,494 2,544 5,549 5,503 2,265 2,275 2</td><td>5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.715 6.628 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.087 6.237 3.006 3.001 3.001 3.001 3.001 3.001 3.002 3.007 5.300 6.035 5.036 5.037 5.036 5.037 5.036 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.037 5.037 5.036 5.037 5.036 5.037 5.037 5.037 5.036 5.0375 5.0375 5.0375 5.03755555555555555555555555555555555555</td><td></td></t<>	50 50 50 80 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.85 8.85 8.86 8.86 9.86 9.86 8.86 8.86 8.85 8.85 8.85 8.85 8.85 8	9.1         9.1           9.1         9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,31 5,494 2,544 5,549 5,503 2,265 2,275 2	5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.715 6.628 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.087 6.237 3.006 3.001 3.001 3.001 3.001 3.001 3.002 3.007 5.300 6.035 5.036 5.037 5.036 5.037 5.036 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.036 5.037 5.037 5.037 5.036 5.037 5.036 5.037 5.037 5.037 5.036 5.0375 5.0375 5.0375 5.03755555555555555555555555555555555555	
946 947 948 949 950 950 950 950 950 955 955 955 956 956 956 956 956 956 956	6 6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1         9.1           9.1         9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,341 4,342 5,448 5,448 5,448 5,448 5,560 5,560 5,560 5,550 5,550 5,550 5,550 5,550 5,550 2,255</td><td>5.191 5.191 5.482 5.482 5.216 5.216 6.025 6.715 6.082 6.085 6.087 6.757 6.727 2.379 3.103 3.005 6.727 2.379 3.103 3.001 3.011 3.029 3.005 4.439 3.004 4.439 5.051 5.052 5.051 5.052 5.051 5.052 5.051 5.052 5.052 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.0555 5.0555 5.055555555</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1         9.1           9.1         9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,341 4,342 5,448 5,448 5,448 5,448 5,560 5,560 5,560 5,550 5,550 5,550 5,550 5,550 5,550 2,255	5.191 5.191 5.482 5.482 5.216 5.216 6.025 6.715 6.082 6.085 6.087 6.757 6.727 2.379 3.103 3.005 6.727 2.379 3.103 3.001 3.011 3.029 3.005 4.439 3.004 4.439 5.051 5.052 5.051 5.052 5.051 5.052 5.051 5.052 5.052 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.055 5.0555 5.0555 5.055555555	
946 947 947 948 949 950 950 952 955 955 955 955 955 955 955 956 956 956	6 6 6 7 argetLoation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.96 8.96 8.96 8.96 8.96 8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1           9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,261 4,261 4,261 4,261 4,261 5,548 5,5667 5,5667 5,5667 5,5667 5,5667 5,5667 5,563 5,563 2,255</td><td>5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.087 6.237 3.103 3.005 3.001 3.011 3.223 3.005 3.001 3.023 3.005 3.001 4.499 4.505 5.139 4.505 5.139 5.117 5.513 5.517 5.518 5.5555555555</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.96 8.96 8.96 8.96 8.96 8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,261 4,261 4,261 4,261 4,261 5,548 5,5667 5,5667 5,5667 5,5667 5,5667 5,5667 5,563 5,563 2,255	5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.087 6.237 3.103 3.005 3.001 3.011 3.223 3.005 3.001 3.023 3.005 3.001 4.499 4.505 5.139 4.505 5.139 5.117 5.513 5.517 5.518 5.5555555555	
946 947 947 948 950 950 951 955 955 955 955 955 955 955 955 955	6 6 6 7 arget.coation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.985 8.955 8.9566 8.9566 8.9566 8.9566 8.9566 8.9566 8.9566 8.9566 8</td><td>9.1           9.1      9.1  </td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,462 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,665 2,263 2,265</td><td>5,181 5,181 5,482 5,184 5,482 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,085 6,095 6,095 6,095 6,095 6,095 6,095 6,095 6,097 6,277 2,273 3,183 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 5,005,</td><td></td></t<>	50 50 50 FFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.985 8.955 8.9566 8.9566 8.9566 8.9566 8.9566 8.9566 8.9566 8.9566 8	9.1           9.1      9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,462 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,665 2,263 2,265	5,181 5,181 5,482 5,184 5,482 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,216 5,085 6,095 6,095 6,095 6,095 6,095 6,095 6,095 6,097 6,277 2,273 3,183 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 3,001 5,005,	
946 947 947 948 949 950 950 952 955 955 955 955 955 955 955 956 956 956	6 6 6 7 argetLoation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.96 8.96 8.96 8.96 8.96 8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1           9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,261 4,261 4,261 4,261 4,261 5,548 5,5667 5,5667 5,5667 5,5667 5,5667 5,5667 5,563 5,563 2,255</td><td>5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.087 6.237 3.103 3.005 3.001 3.011 3.223 3.005 3.001 3.023 3.005 3.001 4.499 4.505 5.139 4.505 5.139 5.117 5.513 5.517 5.518 5.558 5.558 5.558 5.5585 5.5585 5.5585 5.55855 5.55855555555</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.96 8.96 8.96 8.96 8.96 8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,261 4,261 4,261 4,261 4,261 5,548 5,5667 5,5667 5,5667 5,5667 5,5667 5,5667 5,563 5,563 2,255	5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.087 6.237 3.103 3.005 3.001 3.011 3.223 3.005 3.001 3.023 3.005 3.001 4.499 4.505 5.139 4.505 5.139 5.117 5.513 5.517 5.518 5.558 5.558 5.558 5.5585 5.5585 5.5585 5.55855 5.55855555555	
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946 947 947 948 949 950 950 951 955 955 955 955 955 955 955 955 955	6 6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.85 8.95 8.95 8.95 8.96 8.96 8.96 8.96 8.96 8.95</td><td>9.1           9.1      9.1      9</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,381 5,494 5,494 5,494 5,565 5,563 5,563 5,563 5,563 5,563 5,563 5,563 5,563 2,265 2,275</td><td>5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.716 6.082 6.6388 6.095 6.6388 6.095 6.6388 6.095 6.6388 6.095 6.2373 3.103 3.004 3.213 3.005 3.001 3.213 3.005 3.001 3.213 3.005 3.001 3.213 3.005 5.303 6.5385 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139</td><td></td></t<>	50 50 50 FFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.85 8.95 8.95 8.95 8.96 8.96 8.96 8.96 8.96 8.95	9.1           9.1      9.1      9	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,381 5,494 5,494 5,494 5,565 5,563 5,563 5,563 5,563 5,563 5,563 5,563 5,563 2,265 2,275	5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.716 6.082 6.6388 6.095 6.6388 6.095 6.6388 6.095 6.6388 6.095 6.2373 3.103 3.004 3.213 3.005 3.001 3.213 3.005 3.001 3.213 3.005 3.001 3.213 3.005 5.303 6.5385 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139 5.036 5.139	
946 947 947 948 949 950 950 955 955 955 955 955 955 955 95	6 6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1           9.3</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,31 4,342 5,542 5,565 5,565 5,565 2,565 2,553 2,253 2,251 2,468 2,255 2,251 2,468 2,255 2,251 2,469 3,725 2,555 2,254 4,225 4,173 4,161 4,25 4,225 4,255 4,255 2,565 2,577 2,565 2,577 2,565 2,577 2,565 2,577 2,565 2,577 2,577 2,565 2,577 2,577 2,565 2,577 2,577 2,577 2,577 2,577 2,577 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,</td><td>5.191 5.191 5.482 5.482 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.217 5.216 5.217 5.217 3.103 3.011 3.025 3.001 3.011 3.029 3.001 3.011 3.029 3.001 3.011 3.029 3.001 3.011 3.029 3.001 3.011 3.029 3.005 5.5133 5.515 5.533 5.515 5.533 5.517 5.535 5.535 5.535 5.53555 5.53555 5.53555 5.53555 5.535555 5.5355555555</td><td></td></t<>	50 50 50 FFFequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1           9.3	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,31 4,342 5,542 5,565 5,565 5,565 2,565 2,553 2,253 2,251 2,468 2,255 2,251 2,468 2,255 2,251 2,469 3,725 2,555 2,254 4,225 4,173 4,161 4,25 4,225 4,255 4,255 2,565 2,577 2,565 2,577 2,565 2,577 2,565 2,577 2,565 2,577 2,577 2,565 2,577 2,577 2,565 2,577 2,577 2,577 2,577 2,577 2,577 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,577 2,575 2,	5.191 5.191 5.482 5.482 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.216 5.217 5.216 5.217 5.217 3.103 3.011 3.025 3.001 3.011 3.029 3.001 3.011 3.029 3.001 3.011 3.029 3.001 3.011 3.029 3.001 3.011 3.029 3.005 5.5133 5.515 5.533 5.515 5.533 5.517 5.535 5.535 5.535 5.53555 5.53555 5.53555 5.53555 5.535555 5.5355555555	
946 947 947 948 949 950 950 951 955 955 955 955 955 956 956 957 956 957 956 957 956 957 956 957 956 957 956 957 958 958 959 959 959 959 959 959 959 959	6 6 7 argetLoation 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 7FFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.85 8.85 8.85 8.86 8.86 8.86 8.86 8.85 8.85</td><td>9.1           9.1      9.1      9</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,31 5,494 2,544 5,549 5,549 2,555 2,557 2,555 2,557 2,555 2,557 2,555 2,557 2,557 2,555 2,557 2,557 2,557 2,557 2,557 2,557 2,557 2,557 2,557 2,555 2,557 2,555 2</td><td>5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.715 6.082 6.085 6.085 6.085 6.087 6.237 3.103 3.023 3.011 3.213 3.023 3.011 3.213 3.023 3.011 3.213 3.023 3.011 3.223 3.025 3.025 5.036 5.105 5.036 5.105 5.036 5.117 5.503 6.632 6.632 6.635 5.117 5.503 6.517 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.513 5.515.</td><td></td></t<>	50 50 50 7FFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.85 8.85 8.85 8.86 8.86 8.86 8.86 8.85 8.85	9.1           9.1      9.1      9	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,31 5,494 2,544 5,549 5,549 2,555 2,557 2,555 2,557 2,555 2,557 2,555 2,557 2,557 2,555 2,557 2,557 2,557 2,557 2,557 2,557 2,557 2,557 2,557 2,555 2,557 2,555 2	5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.715 6.082 6.085 6.085 6.085 6.087 6.237 3.103 3.023 3.011 3.213 3.023 3.011 3.213 3.023 3.011 3.213 3.023 3.011 3.223 3.025 3.025 5.036 5.105 5.036 5.105 5.036 5.117 5.503 6.632 6.632 6.635 5.117 5.503 6.517 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.503 5.117 5.513 5.515.	
946 947 948 949 950 950 950 955 956 955 956 956 956 956 956 956 956	6 6 6 7 TargetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86</td><td>9.1           9.1      &gt;.1         9.1     <!--</td--><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,462 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,665 2,263 2,263 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,265 2,275 2,265 2,275 2,255</td><td>5.191 5.191 5.492 5.492 5.216 5.216 5.216 6.055 6.055 6.055 6.055 6.055 6.055 6.055 6.055 6.057 6.727 2.979 3.103 3.004 3.001 3.001 3.002 3.004 4.439 3.002 4.505 5.0515</td><td></td></td></t<>	50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	9.1           9.1      >.1         9.1 </td <td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td> <td>4,282 4,281 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,462 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,665 2,263 2,263 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,265 2,275 2,265 2,275 2,255</td> <td>5.191 5.191 5.492 5.492 5.216 5.216 5.216 6.055 6.055 6.055 6.055 6.055 6.055 6.055 6.055 6.057 6.727 2.979 3.103 3.004 3.001 3.001 3.002 3.004 4.439 3.002 4.505 5.0515</td> <td></td>	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,341 4,342 5,443 5,462 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,665 2,263 2,263 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,265 2,275 2,265 2,275 2,255	5.191 5.191 5.492 5.492 5.216 5.216 5.216 6.055 6.055 6.055 6.055 6.055 6.055 6.055 6.055 6.057 6.727 2.979 3.103 3.004 3.001 3.001 3.002 3.004 4.439 3.002 4.505 5.0515	
946         947           947         948           949         949           950         950           952         953           955         956           956         956           957         956           958         956           959         956           959         953           963         963           964         967           956         967           968         967           970         377           377         377           377         377           377         377           377         377           380         981           981         982           982         383           383         384           984         385           985         386           986         383           986         386           987         386           988         386           988         386           988         386           989         386           988	6 6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1           9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,342 5,484 5,548 5,567 5,567 5,567 5,567 5,567 2,253 2,253 2,253 2,255 2,275 2,275 2,275 2,277 2,275 2,277 2,275 2,277 2,275 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,255 2,277</td><td>5.191 5.191 5.191 5.482 5.482 5.216 5.216 6.082 6.715 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.087 6.237 3.030 3.011 3.223 3.023 3.024 4.505 5.133 3.024 4.505 5.133 5.117 5.133 5.117 5.538 5.117 5.133 5.117 5.332 6.61 6.332 6.885 5.385 6.885 5.385 6.885 5.385 6.885 5.385 6.881 3.314 3.105 3.105</td><td></td></t<>	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,342 5,484 5,548 5,567 5,567 5,567 5,567 5,567 2,253 2,253 2,253 2,255 2,275 2,275 2,275 2,277 2,275 2,277 2,275 2,277 2,275 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,277 2,255 2,277	5.191 5.191 5.191 5.482 5.482 5.216 5.216 6.082 6.715 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.087 6.237 3.030 3.011 3.223 3.023 3.024 4.505 5.133 3.024 4.505 5.133 5.117 5.133 5.117 5.538 5.117 5.133 5.117 5.332 6.61 6.332 6.885 5.385 6.885 5.385 6.885 5.385 6.885 5.385 6.881 3.314 3.105 3.105	
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346 347 348 349 350 350 351 352 355 355 355 355 355 356 357 356 357 358 360 361 362 363 364 366 366 366 366 366 366 366 366	6           7           7           7           7           7           7           7	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1           9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,261 4,342 5,548 5,548 5,567 5,567 5,567 5,567 2,553 2,253 2,255</td><td>5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.2715 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.097 6.237 3.103 3.023 3.004 4.439 4.505 5.139 5.117 5.139 5.117 5.513 5.117 5.513 5.117 5.513 6.61 6.632 6.632 6.632 6.632 6.632 6.632 6.633 6.631 6.632 6.633 6.535 6.633 6.535 6.633 6.535 6.335 6.555 6.535 6.555 6.535 6.555 6.535 6.555 6.535 6.555 6.535 6.5556 6.55566 6.55566 6.5556 6.5556 6.55566 6.55566 6.55566 6.55566 6.5556</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,261 4,342 5,548 5,548 5,567 5,567 5,567 5,567 2,553 2,253 2,255	5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.2715 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.097 6.237 3.103 3.023 3.004 4.439 4.505 5.139 5.117 5.139 5.117 5.513 5.117 5.513 5.117 5.513 6.61 6.632 6.632 6.632 6.632 6.632 6.632 6.633 6.631 6.632 6.633 6.535 6.633 6.535 6.633 6.535 6.335 6.555 6.535 6.555 6.535 6.555 6.535 6.555 6.535 6.555 6.535 6.5556 6.55566 6.55566 6.5556 6.5556 6.55566 6.55566 6.55566 6.55566 6.5556	
346 347 348 349 350 351 355 355 355 355 355 355 355 355 355	6 6 6 7 TargetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86</td><td>9.1           9.34</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,341 4,342 5,445 5,667 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 2,265 3,726 3,578 3,726 3,578 3,726 3,5783 3,5783 3,5783 3,5783 3,5783 3,5783,</td><td>5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.082 6.085 6.087 6.785 6.087 6.785 6.087 6.785 6.087 6.785 6.087 6.785 6.087 6.787 3.103 3.011 3.029 3.011 3.029 3.011 3.029 3.075 4.439 4.505 5.051 5.051 5.051 5.055 5.051 5.055 5.051 5.055 5.051 5.055 5.051 5.055</td><td></td></t<>	50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	9.1           9.34	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,341 4,342 5,445 5,667 5,567 5,567 5,567 5,567 5,567 5,567 5,567 5,567 2,265 3,726 3,578 3,726 3,578 3,726 3,5783 3,5783 3,5783 3,5783 3,5783 3,5783,	5.191 5.191 5.482 5.482 5.216 5.216 5.216 6.082 6.085 6.087 6.785 6.087 6.785 6.087 6.785 6.087 6.785 6.087 6.785 6.087 6.787 3.103 3.011 3.029 3.011 3.029 3.011 3.029 3.075 4.439 4.505 5.051 5.051 5.051 5.055 5.051 5.055 5.051 5.055 5.051 5.055 5.051 5.055	
346 347 348 349 350 350 351 352 355 355 355 355 355 356 357 356 357 358 360 361 362 363 364 366 366 366 366 366 366 366 366	6           7           7           7           7           7           7           7	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.96 8.96 8.96 8.96 8.96 8.96 8.96 8.96</td><td>9.1           9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,261 4,342 5,548 5,548 5,567 5,567 5,567 5,567 2,553 2,253 2,255</td><td>5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.2715 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.097 6.237 3.103 3.023 3.004 4.439 4.505 5.139 5.117 5.139 5.117 5.513 5.117 5.513 5.117 5.513 6.61 6.632 6.632 6.632 6.632 6.632 6.632 6.633 6.631 6.632 6.633 6.535 6.633 6.535 6.633 6.535 6.335 6.555 6.535 6.555 6.535 6.555 6.535 6.555 6.535 6.555 6.535 6.5556 6.55566 6.55566 6.5556 6.5556 6.55566 6.55566 6.55566 6.55566 6.5556</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.96 8.96 8.96 8.96 8.96 8.96 8.96 8.96	9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,261 4,342 5,548 5,548 5,567 5,567 5,567 5,567 2,553 2,253 2,255	5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.2715 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.097 6.237 3.103 3.023 3.004 4.439 4.505 5.139 5.117 5.139 5.117 5.513 5.117 5.513 5.117 5.513 6.61 6.632 6.632 6.632 6.632 6.632 6.632 6.633 6.631 6.632 6.633 6.535 6.633 6.535 6.633 6.535 6.335 6.555 6.535 6.555 6.535 6.555 6.535 6.555 6.535 6.555 6.535 6.5556 6.55566 6.55566 6.5556 6.5556 6.55566 6.55566 6.55566 6.55566 6.5556	
346 347 348 349 352 351 352 355 355 356 357 358 357 358 357 358 357 358 357 358 357 358 357 358 357 358 361 362 362 366 362 366 362 366 366 366 366	6 6 7 TargetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86</td><td>9.1           9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,341 5,442 5,454 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,665 2,263 2,265 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,265 2,275 2,275 2,265 2,275 2,275 2,265 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,265 2,275 2,265</td><td>5.191 5.191 5.482 5.482 5.216 5.216 5.216 5.216 6.082 6.095 6.695 6.695 6.695 6.695 6.695 6.695 6.695 6.695 6.697 6.277 3.193 3.002 3.007 3.203 3.001 3.213 3.003 3.001 3.213 3.004 4.499 4.505 5.036 5.037 5.036 5.037 5.036 5.036 5.037 5.036 5.036 5.037 5.036 5.037 5.036 5.0375 5.0375 5.0375 5.0375 5.03755 5.0375555555555555555555555555555555</td><td></td></t<>	50 50 50 FFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,281 4,341 5,442 5,454 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,667 5,665 2,263 2,265 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,265 2,275 2,275 2,265 2,275 2,275 2,265 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,275 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,275 2,265 2,265 2,275 2,265	5.191 5.191 5.482 5.482 5.216 5.216 5.216 5.216 6.082 6.095 6.695 6.695 6.695 6.695 6.695 6.695 6.695 6.695 6.697 6.277 3.193 3.002 3.007 3.203 3.001 3.213 3.003 3.001 3.213 3.004 4.499 4.505 5.036 5.037 5.036 5.037 5.036 5.036 5.037 5.036 5.036 5.037 5.036 5.037 5.036 5.0375 5.0375 5.0375 5.0375 5.03755 5.0375555555555555555555555555555555	
346 347 348 349 350 551 352 355 355 355 355 355 355 355 355 355	6           7           7           7           7           7           7           7           7           7           7           7           7	LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95</td><td>9.1           9.1</td><td>0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24</td><td>4,282 4,281 4,281 4,281 4,281 4,281 4,391 4,391 4,392 5,565 5,565 2,565 2,565 2,565 2,555 2,251 2,251 2,251 2,251 2,251 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255</td><td>5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.075 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.097 3.237 3.030 3.011 3.213 3.029 4.505 5.039 5.133 5.117 5.339 5.117 5.332 6.61 6.832 6.835 6</td><td></td></t<>	50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.95 8.95 8.95 8.95 8.95 8.95 8.95 8.95	9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	4,282 4,281 4,281 4,281 4,281 4,281 4,391 4,391 4,392 5,565 5,565 2,565 2,565 2,565 2,555 2,251 2,251 2,251 2,251 2,251 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255 2,257 2,255	5.191 5.191 5.482 5.482 5.482 5.216 5.216 6.082 6.075 6.082 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.085 6.097 3.237 3.030 3.011 3.213 3.029 4.505 5.039 5.133 5.117 5.339 5.117 5.332 6.61 6.832 6.835 6	

401 402 403	1 7					RFTotalDuration-us			
		LP2052-1	50	9.1	9.34	0.24	4.191	5.073	$\perp$
403	7	LP2052-1	50	9.1	9.34	0.24	4.802	5.805	
	7	LP2052-1	50	9.1	9.34	0.24	4.31	5.21	+
404	7	LP2052-1	50	9.1	9.34	0.24	4.835	5.849	+
405	7	LP2052-1	50	9.1	9.34	0.24	4.042	4.887	
406	7	LP2052-1	50	9.1	9.34	0.24	4.148	5.019	
407	7	LP2052-1	50	9.1	9.34	0.24	4.072	4.926	
408	7	LP2052-1	50	9.1	9.34	0.24	4.265	5.163	+
	7		50		9.34				
409		LP2052-1		9.1		0.24	4.723	5.714	
410	7	LP2052-1	50	9.1	9.34	0.24	4.765	5.768	
411	7	LP2052-1	50	9.1	9.34	0.24	4.735	5.729	
412	7	LP2052-1	50	9.1	9.34	0.24	4.817	5.831	
	7		50		9.34				
413		LP2052-1		9.1		0.24	4.772	5.771	
414	7	LP2052-1	50	9.1	9.34	0.24	4.813	5.819	
415	7	LP2052-1	50	9.1	9.34	0.24	4.789	5.79	
416	7	LP2052-1	50	9.1	9,34	0.24	4,786	5.793	
417	7	LP2052-2	50	9.1	9.34	0.24	4.151	5.473	+
									+
418	7	LP2052-2	50	9.1	9.34	0.24	4.661	5.637	
419	7	LP2052-2	50	9.1	9.34	0.24	4.7	5.688	
420	7	LP2052-2	50	9.1	9.34	0.24	4.638	5.607	
421	7	LP2052-2	50	9.1	9.34	0.24	4.691	5.677	
422	7	LP2052-2	50	9.1	9.34	0.24	4.72	5.712	+
423	7	LP2052-2	50	9.1	9.34	0.24	4.381	5.303	
424	7	LP2052-2	50	9.1	9.34	0.24	4.494	5.435	
425	9	LP2052-1	50	9.42	9.79	0.37	1.986	2.648	
426	9	LP2052-1	50	9.42	9,79	0.37	2.193	2.652	+
	9		50	9.42	9.79	0.37	2.105	2.669	_
427	-	LP2052-1							+
428	9	LP2052-1	50	9.42	9.79	0.37	2.223	2.689	
429	9	LP2052-1	50	9.42	9.79	0.37	2.273	2.752	
430	9	LP2052-1	50	9.42	9.79	0.37	2.202	2.665	
431	9	LP2052-1	50	9.42	9.79	0.37	2.242	2.713	+
432	9	LP2052-1	50	9.42	9.79	0.37	2.201	2.664	
433	9	LP2052-1	50	9.42	9.79	0.37	2.966	3.589	
434	9	LP2052-1	50	9.42	9.79	0.37	2.949	3.569	
435	9	LP2052-1	50	9.42	9.79	0.37	2.944	3.559	+
436	9	LP2052-1	50	9.42	9.79	0.37	2.942	3.559	
437	9	LP2052-1	50	9.42	9.79	0.37	2.956	3.575	
438	9	LP2052-1	50	9.42	9.79	0.37	2.958	3.577	
439	9	LP2052-1	50	9.42	9.79	0.37	2.997	3.626	+
440	9	LP2052-1	50	9.42	9.79	0.37	3.192	3.862	+
									+
441	9	LP2052-1	50	9.42	9.79	0.37	3.915	4.736	-
442	9	LP2052-1	50	9.42	9.79	0.37	3.924	4.748	
443	9	LP2052-1	50	9.42	9.79	0.37	3.925	4.75	
444	9	LP2052-1	50	9.42	9.79	0.37	3.976	4.811	+
	-								+
445	9	LP2052-1	50	9.42	9.79	0.37	3.953	4.778	
446	9	LP2052-1	50	9.42	9.79	0.37	3.954	4.781	
447	9	LP2052-1	50	9.42	9.79	0.37	3.923	4.747	
448	9	LP2052-1	50	9.42	9.79	0.37	3.971	4.805	+
449	9	LP2052-1	50	9.42	9.79	0.37	4.77	5.772	+
	-								+
450	9	LP2052-1	50	9.42	9.79	0.37	5.052	6.113	
otNumber	TargetLocation	TestDevice	RFFrequency-MHz	RFStartTime-us	RFStopTime-us	RFTotalDuration-us	RFAvgPk-Volts	RFMaxPk-Vol	ts U
451	9	LP2052-1	50	9.42	9.79	0.37	5.092	6.161	Ť
									+
452	9	LP2052-1	50	9.42	9.79	0.37	4.613	5.581	+
453	9	LP2052-1	50	9.42	9.79	0.37	4.714	5.702	
454	9	LP2052-1	50	9.42	9.79	0.37	4.81	5.821	
455	9	LP2052-1	50	9.42	9.79	0.37	4.9	5.931	
456	9	LP2052-1	50	9.42	9.79	0.37	5	0.001	_
								0.051	
457	9		50					6.051	_
458		LP2052-2		9.42	9.79	0.37	2.801	3.735	$\pm$
	9	LP2052-2 LP2052-2	50	9.42	9.79 9.79				+
	9	LP2052-2	50	9.42	9.79	0.37	2.801 3.091	3.735 3.738	+
459	9	LP2052-2 LP2052-2	50 50	9.42 9.42	9.79 9.79	0.37 0.37 0.37	2.801 3.091 3.066	3.735 3.738 3.709	
459 460	9 9 9	LP2052-2 LP2052-2 LP2052-2	50 50 50	9.42 9.42 9.42	9.79 9.79 9.79	0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233	3.735 3.738 3.709 3.912	
459 460 461	9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50	9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091	3.735 3.738 3.709 3.912 3.74	
459 460	9 9 9	LP2052-2 LP2052-2 LP2052-2	50 50 50	9.42 9.42 9.42	9.79 9.79 9.79	0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233	3.735 3.738 3.709 3.912	
459 460 461 462	9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50	9.42 9.42 9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032	3.735 3.738 3.709 3.912 3.74 3.668	
459 460 461 462 463	9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50	9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032 3.091	3.735 3.738 3.709 3.912 3.74 3.668 3.737	
459 460 461 462 463 464	9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50	9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032 3.091 3.049	3.735 3.738 3.709 3.912 3.74 3.668 3.737 3.691	
459 460 461 462 463 464 465	9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50 50	9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032 3.091 3.049 4.065	3.735 3.738 3.709 3.912 3.74 3.668 3.737 3.691 4.916	
459 460 461 462 463 464 465 466	9 9 9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50	9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032 3.091 3.049 4.065 4.039	3.735 3.738 3.709 3.912 3.74 3.668 3.737 3.691 4.916 4.886	
459 460 461 462 463 464 465	9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50 50	9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032 3.091 3.049 4.065	3.735 3.738 3.709 3.912 3.74 3.668 3.737 3.691 4.916	
459 460 461 462 463 464 465 466 466 467	9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50	9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032 3.091 3.049 4.065 4.039 4.046	3.735 3.738 3.709 3.912 3.74 3.668 3.737 3.691 4.916 4.886 4.882	
459 460 461 462 463 464 465 466 466 467 468	9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50 50 50	9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032 3.091 3.049 4.065 4.039 4.046	3.735 3.739 3.709 3.912 3.74 3.668 3.737 3.668 3.737 3.691 4.916 4.886 4.882 4.913	
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459 460 461 462 463 463 464 465 466 467 468 469 469 470	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	3,42 3,42 3,42 3,42 3,42 3,42 3,42 3,42	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.091 3.032 3.091 3.049 4.065 4.039 4.046 4.065 4.032 4.035	3,735 3,739 3,709 3,912 3,74 3,668 3,737 3,669 3,737 3,691 4,916 4,886 4,882 4,913 4,813 4,875 4,883	
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459 460 461 462 463 464 465 466 465 466 465 468 469 470 471 471 472 473 474	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 10 10	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	3,42 9,42 9,42 9,42 9,42 9,42 9,42 9,42 9	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.031 3.031 3.031 3.031 3.032 3.031 3.032 4.049 4.035 4.046 4.035 4.035 4.041 4.023 1.951 2.139	3,735 3,739 3,739 3,912 3,74 3,668 3,737 3,681 4,916 4,886 4,882 4,891 4,892 4,893 4,883 4,883 4,883 4,883 2,147 2,568	
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459 460 461 462 463 464 465 466 465 466 465 468 469 470 471 471 472 473 474	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 10 10	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	3,42 9,42 9,42 9,42 9,42 9,42 9,42 9,42 9	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.031 3.031 3.233 3.032 3.031 3.032 3.031 4.045 4.045 4.046 4.065 4.039 4.046 4.065 4.032 4.032 4.032 4.031 2.139 2.116	3,735 3,739 3,739 3,912 3,74 3,668 3,737 3,681 4,916 4,886 4,882 4,891 4,892 4,893 4,883 4,883 4,883 4,883 2,147 2,568	
459 460 461 462 463 464 465 466 466 466 466 469 470 471 472 473 474 475 476	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9,79 9,79 9,79 9,79 9,79 9,79 9,79 9,79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.091 3.066 3.233 3.032 3.091 3.043 4.065 4.065 4.065 4.065 4.065 4.065 4.065 4.065 4.041 4.065 4.041 4.023 1.851 2.139 2.118 2.139	3 735 3 738 3 739 3 912 3 749 3 668 3 737 3 668 3 737 3 668 3 737 3 668 3 737 3 668 4 3912 4 8913 4 895 4 893 4 893 4 893 4 893 4 893 2 558 2 5592	
459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 477 475 477 477	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942 942 942 942 942 942 942 942 942 942	9,79 9,79 9,79 9,79 9,79 9,79 9,79 9,79	0.37 0.38 0.38 0.885 0.885 0.885 0.885	2.001 3.061 3.066 3.233 3.091 3.092 3.093 4.065 4.046 4.065 4.046 4.065 4.046 4.065 4.046 4.055 4.042 4.023 4.023 4.023 1.851 2.118 2.118 2.118	3.735 3.739 3.709 3.912 3.74 3.668 3.737 3.668 4.986 4.882 4.883 4.883 4.883 4.883 4.883 4.883 2.147 2.558 2.558 2.558	
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459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 477 475 476 477	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942 942 942 942 942 942 942 942 942 942	9,79 9,79 9,79 9,79 9,79 9,79 9,79 9,79	0.37 0.38 0.38 0.885 0.885 0.885 0.885	2.201 2.001 3.066 3.233 3.069 3.039 3.032 3.031 4.065 4.044 4.065 4.044 4.065 4.044 4.052 4.035 4.044 4.052 4.022 4.055 4.041 4.022 4.055 4.041 4.022 4.055 4.041 4.022 4.05 4.041 4.022 4.05 4.04 4.022 4.05 4.04 4.02 4.15 4.15 4.15 4.15 4.15 4.15 4.15 4.15	3.735 3.739 3.709 3.912 3.74 3.668 3.737 3.668 4.986 4.882 4.883 4.883 4.883 4.883 4.883 4.883 2.147 2.558 2.558 2.558	
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459           460           461           462           463           464           465           466           466           468           469           470           471           472           473           475           476           477           478           479           480	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.2           LP2052.3           LP2052.4           LP2052.5           LP2052.6           LP2052.7           LP2052.8           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942 942 942 942 942 942 942 942 942 942	9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.801 3.069 3.306 3.309 3.091 3.091 3.092 3.093 4.065 4.046 4.046 4.046 4.046 4.046 4.046 4.045 4.045 4.045 4.045 4.041 4.041 4.041 2.135 2.116 2.429 2.235 2.135 2.135	3.735 3.736 3.709 3.3709 3.370 3.374 3.680 3.737 3.680 4.916 4.985 4.886 4.882 4.882 4.882 4.882 4.883 4.883 4.883 4.883 4.883 4.883 4.883 4.883 4.883 4.883 4.885 2.558 2.5582 2.5582 2.5582 2.5582 2.5765	
459           460           461           462           463           464           465           466           467           468           467           468           467           468           467           470           471           472           473           474           475           477           478           479           481	8         9           9         9           9         9           9         9           9         9           9         9           9         9           9         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10	LP2052.2           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.2           LP2052.1           LP2052.2           LP2052.1           LP2052.1           LP2052.1           LP2052.1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         942           942         9442           942         942           942         942           942         942           942         942           942         942	9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.201 2.001 3.066 3.233 3.091 3.002 3.091 3.049 4.065 4.	3.735 3.736 3.739 3.709 3.912 3.74 3.668 3.737 3.631 4.916 4.936 4.936 4.936 4.936 4.936 4.936 4.937 4.938 4.932 4.937 4.938 4.932 2.558 2.558 2.556 2.556 2.556 2.556	
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459           460           461           462           463           464           465           466           466           467           468           469           471           472           473           474           475           477           477           477           479           480           481           482	9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         10           10         10           10         10           10         10           10         10           10         10           10         10	LP2052.2           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.2           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942 942 942 942 942 942 942 942 942 942	9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.001 2.001 3.066 3.233 3.091 3.002 3.091 3.002 3.091 3.002 4.046 4.065 4.046 4.065 4.046 4.065 4.045 4.023 4.02 4.023 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.02	3,735 3,736 3,709 3,912 3,744 3,668 3,737 3,668 4,3916 4,895 4,893 4,895 4,893 4,893 4,893 4,893 4,893 4,893 4,893 2,147 2,558 2,558 2,558 2,558 2,558 2,558 2,558 3,554	
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459           460           461           462           463           464           465           466           468           466           468           468           469           467           470           471           472           473           474           475           477           477           478           477           482           482           483           485	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           LP2052.1           LP2052.2           LP2052.1           LP2052.1           LP2052.2           LP2052.1           LP2052.2           LP2052.2           LP2052.3           LP2052.4 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>942 942 942 942 942 942 942 942 942 942</td><td>9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.201 2.201 3.066 3.233 3.091 3.032 3.091 3.032 3.091 3.049 4.065 4.033 4.046 4.032 4.041 4.032 4.041 4.032 4.041 4.022 2.139 2.116 2.142 2.239 2.155 2.145 2.145 2.135 2.155 2.155 2.155 2.155 2.155 2.161 2.286 2.297 2.265 2.898</td><td>3.735 3.736 3.709 3.3709 3.370 3.74 3.680 3.737 3.681 4.386 4.832 4.836 4.832 4.832 4.832 4.835 4.835 4.835 4.835 4.835 4.835 4.835 2.558 2.558 2.558 2.558 2.558 2.558 2.558 3.5583 3.558 3.5583</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942 942 942 942 942 942 942 942 942 942	9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.201 2.201 3.066 3.233 3.091 3.032 3.091 3.032 3.091 3.049 4.065 4.033 4.046 4.032 4.041 4.032 4.041 4.032 4.041 4.022 2.139 2.116 2.142 2.239 2.155 2.145 2.145 2.135 2.155 2.155 2.155 2.155 2.155 2.161 2.286 2.297 2.265 2.898	3.735 3.736 3.709 3.3709 3.370 3.74 3.680 3.737 3.681 4.386 4.832 4.836 4.832 4.832 4.832 4.835 4.835 4.835 4.835 4.835 4.835 4.835 2.558 2.558 2.558 2.558 2.558 2.558 2.558 3.5583 3.558 3.5583	
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459 460 461 462 463 464 465 466 466 466 466 466 466 467 467 472 473 474 477 477 477 477 477 477 477 477	9           10           10 <td>IP2052.2           IP2052.2           IP2052.1           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>942           942      &gt;942      &gt;942<td>9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.001 2.001 3.066 3.233 3.069 3.233 3.032 3.032 3.049 4.065 4.046 4.065 4.046 4.065 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.031 4.041 4.022 4.031 4.041 4.022 4.031 4.041 4.022 4.031 4.041</td><td>3.735 3.738 3.709 3.709 3.709 3.709 3.74 3.668 4.312 4.916 4.932 4.916 4.932 4.916 4.932 4.916 4.932 4.935 4.932 4.935 4.932 4.935 4.932 4.935 4.935 2.558 2.558 2.558 2.558 2.556 3.551 3</td><td></td></td></t<></td>	IP2052.2           IP2052.1           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2           IP2052.2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>942           942      &gt;942      &gt;942<td>9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.001 2.001 3.066 3.233 3.069 3.233 3.032 3.032 3.049 4.065 4.046 4.065 4.046 4.065 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.031 4.041 4.022 4.031 4.041 4.022 4.031 4.041 4.022 4.031 4.041</td><td>3.735 3.738 3.709 3.709 3.709 3.709 3.74 3.668 4.312 4.916 4.932 4.916 4.932 4.916 4.932 4.916 4.932 4.935 4.932 4.935 4.932 4.935 4.932 4.935 4.935 2.558 2.558 2.558 2.558 2.556 3.551 3</td><td></td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942           942      >942      >942 <td>9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79</td> <td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td> <td>2.001 2.001 3.066 3.233 3.069 3.233 3.032 3.032 3.049 4.065 4.046 4.065 4.046 4.065 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.031 4.041 4.022 4.031 4.041 4.022 4.031 4.041 4.022 4.031 4.041</td> <td>3.735 3.738 3.709 3.709 3.709 3.709 3.74 3.668 4.312 4.916 4.932 4.916 4.932 4.916 4.932 4.916 4.932 4.935 4.932 4.935 4.932 4.935 4.932 4.935 4.935 2.558 2.558 2.558 2.558 2.556 3.551 3</td> <td></td>	9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.001 2.001 3.066 3.233 3.069 3.233 3.032 3.032 3.049 4.065 4.046 4.065 4.046 4.065 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.044 4.062 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.035 4.041 4.022 4.031 4.041 4.022 4.031 4.041 4.022 4.031 4.041 4.022 4.031 4.041	3.735 3.738 3.709 3.709 3.709 3.709 3.74 3.668 4.312 4.916 4.932 4.916 4.932 4.916 4.932 4.916 4.932 4.935 4.932 4.935 4.932 4.935 4.932 4.935 4.935 2.558 2.558 2.558 2.558 2.556 3.551 3	
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459 460 460 460 460 460 460 460 460 460 460	9           9	IP2052:2           IP2052:1           IP2052:2           IP2052:2           IP2052:2           IP2052:2           IP2052:2           IP2052:2           IP2052:2           IP2052:2           IP2052:2           IP2052:2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>942 942 942 942 942 942 942 942 942 942</td><td>9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.201 2.201 2.001 2.001 2.001 2.001 2.001 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.004 2.002 2.004</td><td>3.735 3.735 3.739 3.709 3.912 3.74 3.688 4.391 4.306 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 2.558 2.558 2.558 2.558 2.558 2.558 3.559 3.559 3.555 3.551 3.55 3.5513.551</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942 942 942 942 942 942 942 942 942 942	9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.201 2.201 2.001 2.001 2.001 2.001 2.001 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.002 2.004 2.002 2.004	3.735 3.735 3.739 3.709 3.912 3.74 3.688 4.391 4.306 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 2.558 2.558 2.558 2.558 2.558 2.558 3.559 3.559 3.555 3.551 3.55 3.5513.551	
459 460 460 460 460 460 460 460 460 460 460	8           9	IP 2052.2           IP 2052.1           IP 2052.2           IP 2052.2 <td< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>942           942      &gt;942      &gt;942</td></td<> <td>9.79 9.79 9.79 9.73 9.73 9.73 9.73 9.73</td> <td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td> <td>2.201 2.001 3.066 3.233 3.062 3.233 3.012 3.012 3.012 3.012 3.049 4.065 4.065 4.065 4.065 4.065 4.062 4.032 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.021 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.032 4.031 4.022 4.032 4.031 4.022 4.032 4.032 4.03 4.022 4.03 4.022 4.03 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.02</td> <td>3.735 3.736 3.739 3.709 3.709 3.747 3.668 3.737 3.631 4.316 4.395 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 2.485 2.556 2.556 2.556 2.556 3.554 3.554 3.554 3.554 2.557 4.2559 2.556 3.554 3.554 3.554 3.554 3.554 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.555 3.554 3.555 3.555 3.554 3.5555 3.555 3.5555 3.5555 3.5555 3.55555 3.55555555</td> <td></td>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942           942      >942      >942	9.79 9.79 9.79 9.73 9.73 9.73 9.73 9.73	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.201 2.001 3.066 3.233 3.062 3.233 3.012 3.012 3.012 3.012 3.049 4.065 4.065 4.065 4.065 4.065 4.062 4.032 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.021 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.032 4.031 4.022 4.032 4.031 4.022 4.032 4.032 4.03 4.022 4.03 4.022 4.03 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.02	3.735 3.736 3.739 3.709 3.709 3.747 3.668 3.737 3.631 4.316 4.395 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 2.485 2.556 2.556 2.556 2.556 3.554 3.554 3.554 3.554 2.557 4.2559 2.556 3.554 3.554 3.554 3.554 3.554 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.555 3.554 3.555 3.555 3.554 3.5555 3.555 3.5555 3.5555 3.5555 3.55555 3.55555555	
459 460 461 462 465 466 465 465 465 465 465 465 465 465	9           9	IP2052:2           IP2052:1           IP2052:2           IP2052:2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>942 942 942 942 942 942 942 942 942 942</td><td>9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.201 2.201 2.001 2.001 2.001 2.001 2.001 2.004 2.001 2.004 2.004 2.004 2.004 2.004 2.004 2.005</td><td>3.735 3.735 3.739 3.709 3.370 3.374 3.680 3.374 4.385 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 2.558 2.558 2.558 2.558 2.558 2.558 3.554 3.554 3.554 3.554 3.554 2.553 2.554 2.553 3.554 2.554</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942 942 942 942 942 942 942 942 942 942	9.73 9.73 9.73 9.73 9.73 9.73 9.73 9.73	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.201 2.201 2.001 2.001 2.001 2.001 2.001 2.004 2.001 2.004 2.004 2.004 2.004 2.004 2.004 2.005	3.735 3.735 3.739 3.709 3.370 3.374 3.680 3.374 4.385 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 4.835 2.558 2.558 2.558 2.558 2.558 2.558 3.554 3.554 3.554 3.554 3.554 2.553 2.554 2.553 3.554 2.554	
459 460 460 460 460 460 460 460 460 460 460	8           9	IP 2052.2           IP 2052.1           IP 2052.2           IP 2052.2 <td< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>942           942      &gt;942      &gt;942</td></td<> <td>9.79 9.79 9.79 9.73 9.73 9.73 9.73 9.73</td> <td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td> <td>2.201 2.001 3.066 3.233 3.062 3.233 3.012 3.012 3.012 3.012 3.049 4.065 4.065 4.065 4.065 4.065 4.062 4.032 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.021 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.032 4.031 4.022 4.032 4.031 4.022 4.032 4.032 4.03 4.022 4.03 4.022 4.03 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.02</td> <td>3.735 3.736 3.739 3.709 3.709 3.747 3.668 3.737 3.631 4.316 4.395 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 2.485 2.556 2.556 2.556 2.556 3.554 3.554 3.554 3.554 2.557 4.2559 2.556 3.554 3.554 3.554 3.554 3.554 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.555 3.554 3.555 3.555 3.554 3.5555 3.555 3.5555 3.5555 3.5555 3.55555 3.55555555</td> <td></td>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	942           942      >942      >942	9.79 9.79 9.79 9.73 9.73 9.73 9.73 9.73	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.201 2.001 3.066 3.233 3.062 3.233 3.012 3.012 3.012 3.012 3.049 4.065 4.065 4.065 4.065 4.065 4.062 4.032 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.021 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.031 4.022 4.032 4.031 4.022 4.032 4.031 4.022 4.032 4.032 4.03 4.022 4.03 4.022 4.03 4.02 4.02 4.02 4.02 4.02 4.02 4.02 4.02	3.735 3.736 3.739 3.709 3.709 3.747 3.668 3.737 3.631 4.316 4.395 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 4.895 2.485 2.556 2.556 2.556 2.556 3.554 3.554 3.554 3.554 2.557 4.2559 2.556 3.554 3.554 3.554 3.554 3.554 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.554 3.555 3.555 3.554 3.555 3.555 3.554 3.5555 3.555 3.5555 3.5555 3.5555 3.55555 3.55555555	

501	10	LP2052-2	50	9.42	9.605	0.185	2.878	RFMaxPk-Volt 3,481	1 h
502	10	LP2052-2	50	9.42	9.605	0.185	2.911	3.522	
503	10	LP2052-2	50	9.42	9.605	0.185	2.954	3.572	+
504	10	LP2052-2	50	9.42	9.605	0.185	2.961	3.584	
505	10	LP2052-2	50	9.42	9.605	0.185	2.923	3.538	
506	10	LP2052-2	50	9.42	9.605	0.185	2.92	3.534	+
507	10	LP2052-2	50	9.42	9.605	0.185	3.918	4.737	+
508	10	LP2052-2	50	9.42	9.605	0.185	3.961	4.793	+
509	10	LP2052-2 LP2052-2	50	9.42	9.605	0.185	3.925	4.75	+
510 511	10	LP2052-2 LP2052-2	50 50	9.42 9.42	9.605 9.605	0.185	3.916 3.878	4.74 4.693	
512	10	LP2052-2	50	9.42	9.605	0.185	3.894	4.633	+
512	10	LP2052-2 LP2052-2	50	9.42	9.605	0.185	3.893	4.703	+
513	10	LP2052-2	50	9.42	9.605	0.185	3.887	4.704	+
515	10	LP2052-1	50	9.605	9.79	0.185	3.612	4.369	+
516	11	LP2052-1	50	9.605	9.79	0.185	3.545	4.29	+
517	11	LP2052-1	50	9.605	9.79	0.185	4.18	5.059	+
518	11	LP2052-1	50	9.605	9.79	0.185	4.748	5.74	+
519	11	LP2052-1	50	9.605	9.79	0.185	4.25	5.141	
520	11	LP2052-1	50	9.605	9.79	0.185	4.76	5.757	$\top$
521	11	LP2052-1	50	9.605	9.79	0.185	3.858	4.669	
522	11	LP2052-1	50	9.605	9.79	0.185	3.962	4.795	
523	11	LP2052-1	50	9.605	9.79	0.185	4.023	4.868	
524	11	LP2052-1	50	9.605	9.79	0.185	4.224	5.112	$\perp$
525	11	LP2052-1	50	9.605	9.79	0.185	4.547	5.499	
526	11	LP2052-1	50	9.605	9.79	0.185	4.571	5.533	
527	11	LP2052-1	50	9.605	9.79	0.185	4.556	5.515	+
528 529	11	LP2052-1	50	9.605	9.79	0.185	4.768	5.772	-
529 520	11	LP2052-1	50	9.605	9.79	0.185	4.699	5.687	+
530 531	11 11	LP2052-1 LP2052-1	50 50	9.605 9.605	9.79 9.79	0.185	4.749 4.761	5.749 5.755	+
532	11	LP2052-1 LP2052-1	50	9.605	9.79	0.185	4.809	5.82	+
533	11	LP2052-1	50	9.605	9.79	0.185	4.438	5.917	+
534	11	LP2052-2	50	9.605	9.79	0.185	4.871	5.892	+
535	11	LP2052-2	50	9.605	9.79	0.185	4.825	5.838	+
536	11	LP2052-2	50	9.605	9.79	0.185	4.739	5.734	+
537	11	LP2052-2	50	9.605	9.79	0.185	4.791	5.798	
538	11	LP2052-2	50	9.605	9.79	0.185	4.749	5.746	
539	11	LP2052-2	50	9.605	9.79	0.185	4.932	5.968	
540	11	LP2052-2	50	9.605	9.79	0.185	5.01	6.063	
541	4	LP2052-1	50	8.8	8.87	0.07	1.405	1.7	
542	4	LP2052-1	50	8.8	8.87	0.07	1.57	1.899	
543	4	LP2052-1	50	8.8	8.87	0.07	1.808	2.189	
544	4	LP2052-1	50	8.8	8.87	0.07	1.626	1.968	
545	4	LP2052-1	50	8.8	8.87	0.07	1.716	2.077	-
546	4	LP2052-1	50 50	8.8	8.87	0.07	1.858	2.249	
					8.87	0.07	2,133	2,579	
547	4	LP2052-1		8.8				0.000	
548	4	LP2052-1	50	8.8	8.87	0.07	2.667	3.228	
548 549	4	LP2052-1 LP2052-1	50 50	8.8 8.8	8.87 8.87	0.07	2.667 1.042	1.261	
548 549 550	4 4 4	LP2052-1 LP2052-1 LP2052-1	50 50 50	8.8 8.8 8.8	8.87 8.87 8.87	0.07 0.07 0.07	2.667 1.042 1.364	1.261 1.649	
548 549 550 ShotNumber	4 4 4 TargetLocation	LP2052-1 LP2052-1 LP2052-1 TestDevice	50 50 50 RFFrequency-MHz	8.8 8.8 8.8 RFStartTime-us	8.87 8.87 8.87 RFStopTime-us	0.07 0.07 0.07 RFTotalDuration-us	2.667 1.042 1.364 RFAvgPk-Volts	1.261 1.649 RFMaxPk-Volt	
548 549 550	4 4 4	LP2052-1 LP2052-1 LP2052-1	50 50 50	8.8 8.8 8.8	8.87 8.87 8.87	0.07 0.07 0.07	2.667 1.042 1.364	1.261 1.649	is Up
548 549 550 ShotNumber 551	4 4 TargetLocation 4	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1	50 50 50 RFFrequency-MHz 50	8.8 8.8 8.8 RFStartTime-us 8.8	8.87 8.87 8.87 RFStopTime-us 8.87	0.07 0.07 0.07 RFTotalDuration-us 0.07	2.667 1.042 1.364 RFAvgPk-Volts 1.499	1.261 1.649 RFMaxPk-Volt 1.814	is Up
548 549 550 ShotNumber 551 552 553 554	4 4 TargetLocation 4 4 4	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 8FFrequency-MHz 50 50 50 50	8.8 8.8 RFStartTime-us 8.8 8.8	8.87 8.87 RFStopTime-us 8.87 8.87 8.87 8.87 8.87	0.07 0.07 BFTotalDuration-us 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.364 RFAvgPk-Volts 1.499 1.479 1.614 1.89	1.261 1.643 RFMaxPk-Volt 1.814 1.79 1.953 2.286	is Up
548 549 550 ShotNumber 551 552 553	4 4 TargetLocation 4 4 4 4	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50	8.8 8.8 RFStartTime-us 8.8 8.8 8.8	8.87 8.87 BFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 BFTotalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.364 RFAvgPk-Volts 1.499 1.479 1.614 1.89 1.856	1.261 1.649 RFMaxPk-Volt 1.814 1.79 1.953 2.286 2.246	is Up
548 549 550 ShotNumber 551 552 553 554 555 556	4 4 TargetLocation 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 RFStartTime-us 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 BFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 RFTotalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.364 RFAvgPk-Volts 1.499 1.479 1.614 1.89 1.856 2.529	1.261 1.649 RFMaxPk-Volt 1.814 1.79 1.953 2.286 2.246 3.059	s Up
548 549 550 551 552 553 554 555 556 556 557	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 RFStartTime-us 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 BFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.8	0.07 0.07 0.07 PFTotalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.667 1.042 1.364 RFAvgPk-Volts 1.499 1.479 1.614 1.89 1.856 2.529 3.614	1.261 1.643 BFMaxPk-Volt 1.814 1.79 1.953 2.286 2.246 3.059 4.374	
548 549 550 551 552 553 554 555 556 556 557 558	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 RFStartTime-us 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 RFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.8	0.07 0.07 FFF totalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.667 1.042 1.364 PFAugPk-Volts 1.499 1.479 1.614 1.89 1.856 2.529 3.614 3.634	1.261 1.649 RFMaxPk-Volt 1.814 1.79 1.953 2.286 2.246 3.059 4.374 4.394	s Up
548 549 550 hotNumber 551 552 553 554 555 556 556 556 557 558 558	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 RFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 BFStarTime-us 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 FFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.8	0.07 0.07 0.07 PFTotalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.667 1.042 RFAvgPk-Volts 1.439 1.479 1.614 1.83 1.856 2.529 3.614 3.634 1.964	1.261 1.649 RFMaxPk-Volt 1.814 1.79 1.953 2.286 2.246 3.059 4.374 4.394 2.377	
548 549 550 hotNumber 551 552 553 554 555 556 555 556 557 558 559 560	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 6FFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 RFStartTime-us 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 RFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.8	0.07 0.07 0.07 RFTotalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.667 1.042 1.364 RFAugPk-Volts 1.439 1.479 1.614 1.83 1.856 2.529 3.614 3.634 1.964 1.849	1.261 1.649 IFFMaxPk-Volt 1.814 1.79 1.953 2.286 2.246 3.059 4.374 4.394 2.377 2.235	
548 549 550 hotNumber 551 552 553 554 555 556 556 556 557 558 559 560 561	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 RFStartTime-us 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 FFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.8	0.07 0.07 0.07 PFTotalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.667 1.042 1.364 RFAugPk-Volts 1.499 1.479 1.614 1.89 1.856 2.529 3.614 3.634 1.964 1.964 1.849 2.287	1.261 1.649 RFMaxPk-Volt 1.814 1.79 1.953 2.266 2.246 3.059 4.374 4.394 4.374 4.394 2.377 2.235 2.765	
548           549           550           551           552           553           554           555           555           556           557           558           559           561           562	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 RFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.8	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.364 PFAvgPk-Volts 1.493 1.479 1.614 1.83 1.856 2.529 3.614 3.634 1.964 1.849 2.287 1.632	1.261 1.649 RFMatPk-Volt 1.814 1.79 1.353 2.266 2.246 3.059 4.374 4.334 2.377 2.235 2.765 2.048	
548 549 550 hotNumber 552 553 554 555 556 556 557 558 557 558 559 560 561 562 563	4 4 7 argetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFrequency MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 RFStarTime-us 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 FFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.8	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.364 PFAvgPk-Volts 1.499 1.614 1.89 1.856 2.529 3.614 3.634 3.634 1.849 2.287 1.692 1.692 1.692	1.261 1.649 FFMaxPk-Volk 1.814 1.79 1.353 2.286 2.246 3.059 4.374 4.394 2.377 2.235 2.765 2.048 2.048	is U
548           549           550           551           552           553           555           555           556           557           558           559           561           562           556           557           558           559           560           561           563           563           564	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 8FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 RFStopTime-us 8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.8	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1042 1364 RFAugPk-Volts 1433 1479 1614 189 2.859 2.859 3.614 3.834 1964 1.849 2.287 1.892 2.247	1.261 1.649 RFMaxPk-Volt 1.814 1.79 1.953 2.266 2.246 3.059 4.374 4.394 2.377 2.235 2.765 2.048 2.048 2.958	is U
548 549 550 551 552 553 554 555 556 557 558 557 558 557 558 557 558 559 560 561 561 562 564 564 565	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.364 RFAugPk-Volks 1.439 1.479 1.614 1.83 1.856 2.529 3.614 3.834 1.849 2.287 1.632 1.632 1.632 2.445 2.872	1.261 1.643 FFMax/Pk-Volt 1.814 1.79 1.953 2.266 2.246 3.059 4.374 4.334 2.377 2.235 2.765 2.048 2.048 2.958 3.475	is U
548           549           550           551           552           553           554           555           556           557           558           559           561           562           563           564           565           561           565           565           565           565           565           565           565           565           565	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 9F5tatTimeus 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.384 RFAvgPk-Volts 1.479 1.856 2.829 3.834 1.866 2.829 3.834 1.864 3.834 1.864 3.834 1.864 3.834 1.864 3.834 1.864 3.834 2.287 1.682 2.287 1.682 2.445 2.847	1261 1269 RFMaaPk-Volk 1814 1.73 1.2286 2.246 3.2059 3.059 4.374 4.334 2.235 2.265 2.046 2.246 2.265 2.048 2.258 3.375 3.021	
548 549 550 551 552 553 554 555 556 557 558 557 558 557 558 557 558 559 560 561 561 562 564 564 565	4 4 7 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1	50 50 50 FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 8.8 8.9 8.9 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.354 1.354 1.854 1.473 1.473 1.614 1.83 1.855 2.523 3.614 3.834 1.849 2.857 3.614 1.849 2.852 1.652 1.652 2.872 2.877 2.485	1281 1484 1874 arght void 1874 1874 1875 2286 2286 2286 2286 2286 2387 2387 2387 2387 2387 2377 2395 2377 2395 2377 2395 2376 2048 2048 2048 2048 2347 5 3371	
548 549 550 550 551 552 553 555 555 555 555 556 556 558 559 560 561 562 563 564 565 566 566 566 566	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052:1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 9F5tatTimeus 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.384 volts 1.384 volts 1.479 1.479 1.89 1.89 1.89 1.89 2.829 3.614 3.614 3.644 1.843 1.864 1.864 1.864 1.864 2.287 1.682 2.487 2.497 2.497 2.785 2.895	1281 1649 <b>FIFMaaFX-Volt</b> 1814 1873 2286 2246 3053 2246 3053 2246 2346 2347 2355 2048 2435 2377 2455 2048 2455 2048 2455 2048 2455 2048 2455 2048 2455 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2048 2555 2055 2055 2055 2055 2055 2055 205	
548 550 550 hotNumber 551 552 553 553 554 555 556 556 556 556 558 559 560 561 562 563 564 563 564 566 566 566 566	4 4 7 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1	50 50 50 FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	887 887 887 PFScoTime us 887 887 887 887 887 887 887 887 887 88	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.354 1.354 1.854 1.473 1.473 1.614 1.83 1.855 2.523 3.614 3.834 1.849 2.857 3.614 1.849 2.852 1.652 1.652 2.872 2.877 2.485	1281 1484 1874 arght void 1874 1874 1875 2286 2286 2286 2286 2286 2387 2387 2387 2387 2387 2377 2395 2377 2395 2377 2395 2376 2048 2048 2048 2048 2347 5 3371	is U
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548 549 550 hotNumber 551 552 552 555 555 555 555 555 555 555	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052-1	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 8.8 8.8 8.9 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.364 1.874 1.899 1.473 1.875 1.875 3.614 1.895 3.614 1.895 3.614 1.845 3.634 1.845 3.634 1.845 2.867 1.682 2.847 1.682 2.847 2.849 2.847	1281 1649 RFMaaPA-Volt 1814 1395 2286 2246 2246 2246 2305 2246 2375 2375 2375 2375 2375 2375 2375 2018 2018 2018 2018 2018 2018 2018 2018	
548 549 550 hotNumber 551 552 553 555 555 555 555 555 555 555 555	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 FFStopTime-us 8.87 8.77 8.77 8.77 8.77 8.77 8.77 8.77 8.77 8.77 8.77 8.77 8.77 8.77 8.7	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.354 1.354 1.439 1.479 1.479 1.634 1.89 1.856 2.529 3.614 1.964 1.964 1.964 1.964 1.964 1.964 1.964 1.964 2.287 1.692 2.247 2.247 2.245 2.445 2.447 2.785 2.445 3.013 3.033	1281 1281 1284 1295 1814 1795 2286 2246 3.059 4.374 4.394 4.394 4.394 4.394 2.375 2.765 2.468 2.458 3.051 3.021 3.021 3.021 3.051 3.647 3.8657 3.86477 3.86477 3.864777 3.86477777777777777777777777777777	
549 549 550 550 551 551 552 552 553 554 555 556 556 556 556 556 561 562 564 564 566 564 566 566 566 566 566 566	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.9 8.8 8.8 8.8 8.9 8.9 8.9 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.354 1.354 1.499 1.479 1.614 1.89 1.856 2.529 3.614 1.864 1.864 1.864 1.864 1.864 1.864 1.864 1.864 1.864 1.864 1.864 1.864 1.864 1.864 2.877 2.287 2.285 2.445 2.445 2.445 2.445 2.445 2.445 2.445 2.872 2.875 2.305 3.3199 3.3595 3.323 3.4221	1281 1649 PFMaaPA-Volt 184 1353 2286 2246 2246 2246 2246 2246 2246 2246	
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549 549 550 551 552 553 554 555 555 555 555 555 555 555 555	4 4 Target.coation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-1 LP2052	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1042 1.364 1.364 1.499 1.479 1.479 1.614 1.89 1.856 2.529 3.614 1.864 1.864 1.864 1.864 1.864 1.864 1.864 1.864 2.287 2.287 2.287 2.287 2.245 2.247 2.245 2.247 2.285 2.247 2.285 3.013 3.899 3.823 3.276 4.221 3.839	1281 1649 FFMadP+.Volt 1814 1384 1385 2246 2246 2246 237 2385 2246 246 237 237 2235 2765 2048 2048 2048 2048 2048 2048 2048 2048	
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548 549 550 551 552 553 554 555 556 557 556 557 558 566 563 566 563 564 565 564 566 563 564 565 564 566 566 567 568 566 567 576 577 577 577 577 577 577 577	4 4 7 TargetLoation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.1           LP2052.1 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8</td><td>887 887 887 887 887 887 887 887 887 887</td><td>0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07</td><td>2.667 1.042 1.384 1.384 1.499 1.479 1.479 1.479 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8</td><td>1281 1649 FIFMadFX-Volt 184 184 1384 1385 2246 3.059 2246 3.059 2246 2046 2046 2046 2046 2046 2046 2046</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	887 887 887 887 887 887 887 887 887 887	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.384 1.384 1.499 1.479 1.479 1.479 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8	1281 1649 FIFMadFX-Volt 184 184 1384 1385 2246 3.059 2246 3.059 2246 2046 2046 2046 2046 2046 2046 2046	
548 549 550 551 552 552 553 555 555 555 555 555 555 555	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.1           LP2052.1 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.8 8.8 8.8 8.8 8.8 8.9 8.9 8.8 8.8 8.8</td><td>8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87</td><td>0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07</td><td>2.667 1.042 1.384 1.384 1.479 1.479 1.479 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8</td><td>1281 1649 RFMaaFk-Volt 184 1753 2286 2246 2246 2246 2246 2246 2246 2246</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.9 8.9 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.384 1.384 1.479 1.479 1.479 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8	1281 1649 RFMaaFk-Volt 184 1753 2286 2246 2246 2246 2246 2246 2246 2246	
548 549 550 551 552 553 554 555 555 556 557 556 557 566 566 566 566	4 4 7 argetOation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.1           LP2052.1 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8</td><td>887 887 887 887 887 887 887 887 887 887</td><td>0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07</td><td>2.867 1.042 1.354 1.354 1.89 1.479 1.479 1.479 1.89 1.89 1.855 2.852 3.614 1.89 1.894 1.894 1.894 1.894 1.894 1.894 1.894 1.894 2.872 2.877 2.875 2.84</td><td>1281 1649 FIFMaaFA-Volt 184 1784 1784 1784 1785 2286 2246 2046 2246 2046 2246 2046 2046 204</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	887 887 887 887 887 887 887 887 887 887	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.354 1.354 1.89 1.479 1.479 1.479 1.89 1.89 1.855 2.852 3.614 1.89 1.894 1.894 1.894 1.894 1.894 1.894 1.894 1.894 2.872 2.877 2.875 2.84	1281 1649 FIFMaaFA-Volt 184 1784 1784 1784 1785 2286 2246 2046 2246 2046 2246 2046 2046 204	
548 549 550 551 552 553 555 555 555 555 555 555 555 555	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.1           LP2052.1 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8</td><td>887 887 887 887 887 887 887 887 887 887</td><td>0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07</td><td>2.667 1042 1.364 1.364 1.89 1.479 1.479 1.479 1.614 1.89 1.89 1.855 2.855 2.855 2.845 2.872 2.877 1.652 2.445 2.287 1.652 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.485 2.245 2.445 2.287 2.485 2.245 2.487 2.285 2.445 2.487 2.285 3.569 3.823 3.569 3.823 3.859 3.833 3.859 3.833 3.859 3.833 3.859 3.833 3.859 3.833 3.835 3.833 3.835 3.833 3.835 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.3355 3.3355 3.3355 3.3355 3.3355 3.3355 3.33555 3.3355555555</td><td>1281 1649 RFMaaFk-Volt 184 1753 2286 2246 2246 2246 2246 2246 2246 2246</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	887 887 887 887 887 887 887 887 887 887	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1042 1.364 1.364 1.89 1.479 1.479 1.479 1.614 1.89 1.89 1.855 2.855 2.855 2.845 2.872 2.877 1.652 2.445 2.287 1.652 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.445 2.287 2.485 2.245 2.445 2.287 2.485 2.245 2.487 2.285 2.445 2.487 2.285 3.569 3.823 3.569 3.823 3.859 3.833 3.859 3.833 3.859 3.833 3.859 3.833 3.859 3.833 3.835 3.833 3.835 3.833 3.835 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.335 3.3355 3.3355 3.3355 3.3355 3.3355 3.3355 3.33555 3.3355555555	1281 1649 RFMaaFk-Volt 184 1753 2286 2246 2246 2246 2246 2246 2246 2246	
548 549 550 550 551 552 553 555 555 556 556 557 566 567 566 566 566	4 4 TargetLocation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.1           LP2052.1 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8</td><td>887 887 887 887 887 887 887 887 887 887</td><td>0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07</td><td>2.667 1.042 1.384 1.384 1.479 1.479 1.479 1.479 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8</td><td>1281 1649 RFMaaFA-Volt 184 153 2286 2246 3.059 2.246 3.059 2.246 2.048 2.235 2.765 2.246 2.048 2.235 2.765 3.475 3.021 3.371 3.507 3.371 3.507 3.3872 4.35 3.387 3.3872 4.35 5.043 5.038 5.031 3.377 3.801 3.371 3.801 3.371 3.801 5.032 5.033 5.031 3.327 3.801 5.032 5.033 5.031 3.327 3.801 5.032 5.033 5.031 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.833 3.827 3.333 3.831 3</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	887 887 887 887 887 887 887 887 887 887	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.384 1.384 1.479 1.479 1.479 1.479 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8	1281 1649 RFMaaFA-Volt 184 153 2286 2246 3.059 2.246 3.059 2.246 2.048 2.235 2.765 2.246 2.048 2.235 2.765 3.475 3.021 3.371 3.507 3.371 3.507 3.3872 4.35 3.387 3.3872 4.35 5.043 5.038 5.031 3.377 3.801 3.371 3.801 3.371 3.801 5.032 5.033 5.031 3.327 3.801 5.032 5.033 5.031 3.327 3.801 5.032 5.033 5.031 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.803 3.327 3.833 3.827 3.333 3.831 3	
548 549 550 551 552 553 555 555 555 555 555 555 555 555	4 4 TargetLoation 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.1           LP2052.1 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8</td><td>887 887 887 887 887 887 887 887 887 887</td><td>0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07</td><td>2.667 1.042 1.384 1.384 1.489 1.479 1.479 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8</td><td>1281 1649 FIFMarFx-Volt 184 184 1353 2246 2446 2446 2446 2446 2446 2446 244</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	887 887 887 887 887 887 887 887 887 887	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.667 1.042 1.384 1.384 1.489 1.479 1.479 1.89 1.89 1.89 1.89 1.89 1.89 1.89 1.8	1281 1649 FIFMarFx-Volt 184 184 1353 2246 2446 2446 2446 2446 2446 2446 244	
548 549 550 550 551 552 553 555 555 555 555 555 556 557 560 561 562 563 564 566 566 566 566 566 566 566 566 566	4 4 TargetLocaton 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.1           LP2052.1 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8.8 8.8 8.8 8.8 8.8 8.9 8.9 8.8 8.8 8.8</td><td>8.87 8.87</td><td>0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07</td><td>2.867 1.042 1.384 1.89 1.479 1.479 1.479 1.89 1.855 2.829 3.614 1.89 1.894 1.89 1.894 1.894 1.894 1.894 1.894 1.894 2.872 2.872 2.845 2.845 2.845 2.845 2.845 2.845 2.845 3.614 3.859 3.85</td><td>1281 1649 RFMaaFA-Volt 184 153 2286 2246 2246 2246 2246 2246 2246 2246</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.9 8.9 8.8 8.8 8.8	8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.867 1.042 1.384 1.89 1.479 1.479 1.479 1.89 1.855 2.829 3.614 1.89 1.894 1.89 1.894 1.894 1.894 1.894 1.894 1.894 2.872 2.872 2.845 2.845 2.845 2.845 2.845 2.845 2.845 3.614 3.859 3.85	1281 1649 RFMaaFA-Volt 184 153 2286 2246 2246 2246 2246 2246 2246 2246	

	TargetLocation	1 0 2052 4	50	0.0	8.87	0.07	2407	2.986	
601	4	LP2052-1	50	8.8		0.07	2.467		
602	4	LP2052-1		8.8	8.87		2.615	3.162	
603	4	LP2052-1	50 50	8.8	8.87	0.07	2.838	3.433	(
604	4	LP2052-1		8.8	8.87	0.07	2.977	3.604	0
605	4	LP2052-1	50 50	8.8	8.87	0.07	3.06	3.704	-
607	4	LP2052-1	50	8.8	8.87	0.07	2.956	3.577	-
608	4	LP2052-1	50	8.8	8.87	0.07	3.128	3.785	1
609	4	LP2052-1 LP2052-2	50	0.0 8.8	8.87	0.07	3.182 3.021	3.657	
610	4	LP2052-2	50	8.8	8.87	0.07	3.426	4.147	+
611	4	LP2052-2	50	8.8	8.87	0.07	3.498	4.228	+
612	4	LP2052-2	50	8.8	8.87	0.07	3.554	4.302	+
612	4	LP2052-2	50	8.8	8.87	0.07	3.232	4.302	-
614	4	LP2052-2	50	8.8	8.87	0.07	3.393	4.107	
615	4	LP2052-2	50	8.8	8.87	0.07	3.491	4.226	
616	4	LP2052-2	50	8.8	8.87	0.07	3.87	4.683	
617	4	LP2052-2	50	8.8	8.87	0.07	3.839	4.647	
618	4	LP2052-2	50	8.8	8.87	0.07	3.971	4.801	
619	4	LP2052-2	50	8.8	8.87	0.07	3.738	4.525	
620	4	LP2052-2	50	8.8	8.87	0.07	3.952	4.782	+
621	4	LP2052-2	50	8.8	8.87	0.07	4.049	4.899	1
622	4	LP2052-2	50	8.8	8.87	0.07	3.86	4.672	
623	4	LP2052-2	50	8.8	8.87	0.07	3.725	4.504	
624	4	LP2052-2	50	8.8	8.87	0.07	3.009	3.642	
625	4	LP2052-2	50	8.8	8.87	0.07	3.296	3.99	
626	4	LP2052-2	50	8.8	8.87	0.07	2.685	3.25	
627	4	LP2052-2	50	8.8	8.87	0.07	3.025	3.661	+
628	4	LP2052-2	50	8.8	8.87	0.07	2.797	3.386	+
629	4	LP2052-2	50	8.8	8.87	0.07	2.974	3.6	-
630	4	LP2052-2	50	8.8	8.87	0.07	3.017	3.652	+
631	4	LP2052-2	50	8.8	8.87	0.07	3.008	3.641	1
632	4	LP2052-2	50	8.8	8.87	0.07	3.187	3.858	1
633	4	LP2052-2	50	8.8	8.87	0.07	2.588	3.132	1
634	4	LP2052-2	50	8.8	8.87	0.07	2.867	3.47	
635	4	LP2052-2	50	8.8	8.87	0.07	2.738	3.311	
636	4	LP2052-2	50	8.8	8.87	0.07	2.914	3.526	
637	4	LP2052-2	50	8.8	8.87	0.07	2.947	3.567	1
638	4	LP2052-2	50	8.8	8.87	0.07	2.378	2.878	1
639	4	LP2052-2	50	8.8	8.87	0.07	2.515	3.041	
640	4	LP2052-2	50	8.8	8.87	0.07	2.686	3.249	
641	4	LP2052-2	50	8.8	8.87	0.07	2.608	3.157	
642	4	LP2052-2	50	8.8	8.87	0.07	2.613	3.163	
643	4	LP2052-2	50	8.8	8.87	0.07	2.77	3.35	
644	4	LP2052-2	50	8.8	8.87	0.07	2.723	3.296	
645	4	LP2052-2	50	8.8	8.87	0.07	2.549	3.085	
	1 7							2.8	
646	4	LP2052-2	50	8.8	8.87	0.07	2.313	2.0	
646 647				8.8 8.8	8.87 8.87	0.07	2.313 2.337	2.829	
	4	LP2052-2	50						1
647	4	LP2052-2 LP2052-2	50 50	8.8	8.87	0.07	2.337	2.829	
647 648 649 650	4 4 4 4 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50	8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07	2.337 2.382 2.736 2.487	2.829 2.881 3.31 3.01	
647 648 649 650	4 4 4 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50	8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07	2.337 2.382 2.736 2.487	2.829 2.881 3.31 3.01	
647 648 649 650 ShotNumber 651	4 4 4 4 TargetLocation 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2	50 50 50 50 8FFrequency-MHz 50	8.8 8.8 8.8 RFStartTime-us 8.8	8.87 8.87 8.87 8.87 RFStopTime-us 8.87	0.07 0.07 0.07 0.07 RFTotalDuration-us 0.07	2.337 2.382 2.736 2.487 RFAvgPk-Volts 2.844	2.829 2.881 3.31 3.01 RFMaxPk-Volt 3.442	s U
647 648 649 650 ShotNumber 651 652	4 4 4 1 TargetLocation 4 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2	50 50 50 50 BFFrequency-MHz 50 50	8.8 8.8 8.8 RFStartTime-us 8.8 8.8	8.87 8.87 8.87 8.87 RFStopTime-us 8.87 8.87	0.07 0.07 0.07 0.07 RFTotalDuration-us 0.07 0.07	2.337 2.382 2.736 2.487 RFAvgPk-Volts 2.844 2.701	2.829 2.881 3.31 3.01 RFMaxPk-Volt 3.442 3.266	s U
647 648 649 650 %hotNumber 651 652 653	4 4 4 1 argetLocation 4 4 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 FFFrequency-MHz 50 50 50	8.8 8.8 8.8 RFStartTime-us 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 RFStopTime-us 8.87 8.87 8.87	0.07 0.07 0.07 BFTotalDuration-us 0.07 0.07 0.07	2.337 2.382 2.736 2.487 RFAvgPk-Volts 2.844 2.701 2.978	2.829 2.881 3.31 3.01 RFMaxPk-Volt 3.442 3.266 3.604	s U
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647 648 649 650 651 652 653 654 655 655 655 655 655 655 655 658 659 660	4 4 4 7 arget.cocation 4 4 4 4 4 4 4 5 5 5	LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2052-1	50 50 50 50 50 FIFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 1FF totalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.337 2.382 2.482 2.484 2.844 2.701 2.978 3.188 3.521 3.759 3.725 3.545 2.829 3.09	2.829 2.881 3.01 3.01 3.442 3.266 3.804 3.886 4.261 4.55 4.507 4.29 3.424 3.738	
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647         648           649         650           650         652           652         653           654         656           655         656           656         657           658         666           662         663           664         666           667         668           668         669           670         673           674         676	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86	887 887 887 887 887 887 887 887 887 887	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.736 2.437 2.437 2.444 2.844 2.844 2.844 2.844 3.829 3.821 3.725 3.821 3.7255 3.7255 3.7255 3.7255 3.72555 3.7255555555555555555555555555555555	2.829 2.881 3.31 3.442 3.266 3.694 3.694 4.261 4.261 4.261 4.261 4.261 4.261 4.23 3.3424 3.3738 3.3 4.12 4.836 5.036 4.507 4.23 3.3 4.12 4.836 4.507 4.23 3.3 4.12 4.836 4.554 4.126 4.427 4.3378 3.3326 3.3326 3.3326 3.3366 3.36	
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647         648           649         650           649         650           651         652           655         657           658         657           668         663           664         666           667         666           668         667           668         667           668         667           670         671           672         673           674         675           676         677	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2	50 50 50 50 76FFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.9 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 FF total/Duration-us FF total/Duration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.337 2.382 2.736 2.736 2.437 2.438 2.944 2.701 2.844 2.878 3.881 3.881 3.881 3.881 3.881 3.881 3.882 3.845 3.847 3.844 3.844	2.829 2.831 3.31 3.01 3.442 3.266 4.55 4.50 4.55 4.50 4.29 4.29 4.29 4.29 4.29 4.29 4.29 4.29	
647         648           649         650           645         650           651         655           655         656           656         656           657         658           668         666           666         666           666         666           667         668           667         668           671         673           674         676           677         677           677         673	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86     <	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.736 2.487 2.487 2.484 2.844 2.878 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.845 3.845 3.845 3.845 3.845 3.845 3.845 3.845 3.845 3.840 3.847 3.844 3.847 3.844 3.847 3.847 3.844 3.847	2.829 2.829 3.31 3.31 3.31 3.42 3.42 3.246 3.246 3.266 4.28 3.604 4.261 4.261 4.261 4.261 4.29 3.424 4.557 4.29 3.424 4.557 4.29 3.429 3.429 4.507 4.503 4.504 4.503 4.564 4.264 4.264 4.264 4.265 4.503 4.564 4.265 4.505 4.5	
947 648 649 650 651 652 655 655 655 655 655 655 655 655 655	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.9 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 FFTotalDuration-us PFTotalDuration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.337 2.827 2.736 2.736 2.437 2.447 2.737 2.844 2.701 2.878 3.889 3.821 3.725 3.545 2.829 3.225 3.545 2.829 3.225 3.545 2.829 3.225 3.545 2.829 3.223 3.545 3.223 3.244 3.399 3.223 3.244 3.396 3.397 3.396 3.396 3.397 3.396 3.396 3.397 3.396 3.397 3.396 3.396 3.397 3.396 3.397 3.396 3.397 3.396 3.397 3.396 3.397 3.397 3.396 3.397 3.397 3.396 3.397 3.397 3.397 3.396 3.3977 3.3977 3.3977 3.39772 3.39772 3.39772 3.39772 3.39772 3.39772 3.3	2.829 2.831 3.31 3.01 3.442 3.246 3.864 3.864 4.25 4.29 3.442 4.557 4.29 3.442 4.557 4.29 3.424 4.557 4.29 3.424 4.557 4.29 3.42 4.557 4.29 3.42 4.557 4.29 3.42 4.557 4.29 3.42 4.557 4.29 3.42 4.557 4.29 3.42 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.322 3.	
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947 649 649 650 649 651 652 655 655 655 655 655 655 655	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.2 LP2052.1 LP2	50 50 50 50 7FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.9 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 FF Total/Duration-us FF Total/Duration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.337 2.382 2.736 2.487 2.487 2.736 2.494 2.737 3.880 3.821 3.759 3.225 3.545 3.225 3.545 3.225 3.545 3.225 3.545 3.223 3.545 3.223 3.545 3.223 3.545 3.223 3.545 3.223 3.545 3.223 3.494 3.395 3.223 3.494 3.395 3.223 3.495 3.247 3.245 3.247 3.245 3.247 3.244 3.257 2.244 3.257 2.2449 2.2592 2.2592 2.2572 2.2773	2.829 2.831 3.01 3.442 3.286 4.29 3.442 3.286 4.55 4.55 4.55 4.55 4.29 3.442 4.29 3.442 4.55 4.29 3.424 4.55 4.29 3.424 4.55 4.29 3.424 4.55 4.55 4.29 3.424 4.55 4.55 4.55 4.55 4.55 4.55 4.55	
647         648           649         650           651         655           655         656           656         656           657         658           658         666           666         666           667         668           668         667           674         674           677         678           677         678           677         678           677         678           679         680           681         682           682         683           683         684           683         684           684         685	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP205-1 LP205-1 LP205-1 LP205-1 LP205-1 LP205-1 LP205-1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.386 2.487 2.486 2.484 2.844 2.878 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.825 3.845 3.825 3.845 3.845 3.845 3.845 3.845 3.845 3.847 3.847 3.847 3.847 3.847 3.847 3.847 3.847 3.847 2.848 2.854 2.854 2.854 2.854 2.854 2.854 2.854 2.854 2.8555 2.855 2.8555 2.8555 2.8555 2.8555 2.85555 2.85555 2.8555555	2.829 2.829 3.31 3.01 3.442 3.246 3.604 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.263 3.424 4.27 3.3424 4.23 3.424 4.23 3.424 4.264 4.264 4.264 4.265 4.272 4.336 5.2362 3.3376 3.3362 3.3376 3.33776 3.33776 3.33776 3.33776 3.337777777777	
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647         648           649         650           651         652           652         653           656         656           657         658           668         667           669         666           667         668           667         668           667         669           668         667           669         667           670         677           677         677           677         678           677         678           681         682           682         683           683         683           684         683           685         686           687         688	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 FIFTotal/Duration-us 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.0	2.337 2.382 2.386 2.487 2.486 2.844 2.844 2.844 2.844 2.844 3.852 3.852 3.852 3.852 3.852 3.854 3.852 3.854 3.854 3.854 3.854 3.854 3.8555 3.8555 3.8555 3.8555 3.8555 3.85555 3.85555 3.85555555555	2.829 2.829 3.31 3.01 3.44 3.442 3.266 3.604 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.263 4.22 3.378 3.3 4.12 4.377 4.23 3.738 4.12 4.364 4.264 4.264 4.2654 4.2754 3.3065 3.316 3.3254 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.3257 3.3277 3.32577 3.355757 3.35575757575757575757575757575757575757	
647         648           649         650           651         655           655         656           656         657           657         656           656         656           657         656           658         660           661         666           662         666           666         667           668         667           673         676           677         678           673         679           680         681           682         683           683         684           685         686           683         684	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2052	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.337 2.337 2.736 2.437 2.437 2.444 2.844 2.878 3.851 3.851 3.851 3.851 3.725 3.445 2.823 3.09 3.223 3.445 3.325 3.445 3.309 3.223 3.445 3.309 3.223 3.445 3.309 3.223 3.445 3.445 3.445 2.854 2.855 2	2.829 2.821 3.31 3.01 3.442 3.442 3.864 4.261 4.261 4.261 4.261 4.27 3.378 3.9 4.28 4.281 4.507 4.29 3.424 4.507 4.29 3.42 4.507 4.29 3.42 4.507 4.29 3.43 3.9 4.564 4.564 4.564 4.564 4.564 4.564 4.564 4.564 4.22 4.378 4.564 4.22 4.378 4.22 4.337 3.302 3.302 3.302 3.302 3.302 3.202 3.202 3.217 3.256 3.256 3.2765	
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647         648           649         650           651         655           655         656           656         657           657         656           656         656           657         656           658         660           661         666           662         666           666         667           668         667           673         676           677         678           673         679           680         681           682         683           683         684           685         686           683         684	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2052	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.386 2.487 2.486 2.484 2.844 2.878 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.825 3.845 3.825 3.845 3.845 3.845 3.845 3.845 3.845 3.840	2.829 2.829 3.31 3.01 3.442 3.246 3.604 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.264 4.264 4.264 4.264 4.264 4.264 4.265 4.272 4.3738 4.22 4.3788 4.22 4.3788 4.22 4.3788 4.22 4.3788 3.378 4.22 4.3788 3.378 4.22 4.3788 3.378 4.22 4.3788 3.378 3.3787 3.3788 3.3787 3.3788 3.37875 3.37875 3.3787	
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647         648           649         650           651         655           655         656           656         656           657         658           658         666           666         666           667         668           668         667           669         671           674         675           677         678           677         678           677         678           680         681           682         683           683         686           684         685           685         686           680         681           681         683           682         683           683         686           684         686           687         688           688         686           689         688           689         689           689         689	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2052	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.386 2.487 2.486 2.484 2.844 2.878 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.825 3.845 3.825 3.845 3.845 3.845 3.845 3.845 3.845 3.840	2.829 2.829 3.31 3.01 3.442 3.246 3.604 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.264 4.264 4.264 4.264 4.264 4.264 4.265 4.272 4.3738 4.22 4.3788 4.22 4.3788 4.22 4.3788 4.22 4.3788 3.378 4.22 4.3788 3.378 4.22 4.3788 3.378 4.22 4.3788 3.378 3.3787 3.3788 3.3787 3.3788 3.37875 3.37875 3.3787	
647         648           649         650           651         655           655         656           656         655           657         658           658         656           659         656           650         656           656         656           657         658           658         666           666         666           667         668           668         667           676         677           678         677           679         680           681         682           682         684           683         684           684         685           681         682           682         683           683         684           684         685           685         686           686         687           688         687           688         683           689         681           683         683	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5	LP2052.2 LP2052.1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.387 2.487 2.487 2.484 2.844 2.976 3.851 3.5215	2.829 2.831 3.01 3.01 3.442 3.260 4.281 4.29 3.260 4.29 4.29 3.242 4.557 4.29 3.242 4.557 4.29 3.242 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 4.29 3.32 4.557 3.32 3.333 3.333 3.333 3.333 3.333 3.333 3.333 3.333 3.333 3.333 3.33333 3.33333 3.33333 3.33333 3.333333	
647         648           649         650           651         655           655         656           656         656           657         658           660         661           662         663           666         666           667         668           668         667           668         667           667         670           677         673           674         676           677         673           674         676           677         673           678         671           679         661           682         683           683         684           684         685           687         680           681         682           682         683           683         684           684         685           685         686           686         687           687         688           688         689           689         683           683	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.382 2.486 2.487 2.484 2.844 2.878 3.821 3.851 3.852 3.852 3.854 3.852 3.09 3.225 3.845 3.854 3.854 3.855 3.09 3.225 3.404 3.855 3.404 3.856 3.404 3.856 3.404 3.856 3.404 3.856 3.404 3.856 3.404 3.857 3.404 3.857 3.404 3.857 3.404 3.857 3.404 3.857 3.405 3.404 3.857 3.405 3.404 3.857 3.405 3.405 3.404 3.857 3.405 3.407 3.	2.829 2.829 3.31 3.01 3.44 3.442 3.266 3.604 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.263 4.22 3.33 4.12 4.336 4.554 4.22 4.22 3.306 5.554 4.22 3.306 5.554 4.22 3.306 5.554 4.22 3.306 5.554 4.22 3.306 5.554 3.306 3.316 3.316 3.306 3.316 3.316 3.306 3.317 3.327 3.3559 3.275 3.318 3.265 3.3277 3.327 3.337 3.327 3.337 3.327 3.3377 3.33777 3.33777 3.33777 3.3377737 3.3377737373773737737377377377777777	
647         648           649         650           651         655           655         656           656         657           657         656           658         660           660         661           662         663           664         666           665         666           666         667           668         667           673         676           677         678           679         679           680         681           682         683           683         684           685         686           682         683           683         684           683         683           683         683           683         683           683         683           683         683	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.337 2.336 2.437 2.438 2.434 2.844 2.844 2.878 3.851 3.852 3.852 3.852 3.854 3.852 3.854 3.325 3.845 3.325 3.845 3.325 3.345 3.325 3.345 3.325 3.345 3.325 3.345 3.325 3.345 3.325 3.345 3.325 3.345 3.325 3.345 3.345 3.345 3.345 3.345 3.345 3.345 3.345 3.345 3.345 3.345 3.257 3.487 3.361 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.257 3.487 3.277 3.2777 3.2776 3.277	2.829 2.821 3.31 3.01 3.442 3.442 3.464 4.25 4.29 4.29 4.29 3.424 4.507 4.29 3.424 4.507 4.29 3.424 4.507 4.29 3.424 4.507 4.29 3.33 3.9 4.20 4.23 3.39 4.564 4.564 4.564 4.564 4.564 4.564 4.564 4.564 4.564 4.564 4.522 4.3376 3.302 3.302 3.302 3.302 3.302 3.302 3.302 3.201 3.202 3.201 3.202 3.201 3.202 3.201 3.2	
647         648           649         650           651         655           652         655           655         656           656         657           657         658           666         667           668         666           667         668           668         667           669         667           677         676           677         677           678         677           679         601           682         663           687         668           687         669           681         682           682         683           683         684           684         687           685         687           688         688           689         686           689         683           689         683           689         683           689         683           689         683           681         682           682         683           683	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.2 LP2052.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.8         8.8           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86           8.86         8.86 <td>887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           837           837           837           834           934      934      9</td> <td>0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07</td> <td>2.337 2.382 2.382 2.436 2.437 2.437 2.434 2.544 2.544 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.725 3.644 3.651 2.534 2.535 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555</td> <td>2.829 2.829 2.829 3.31 3.31 3.424 3.426 3.604 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.264 4.261 4.264 4.264 4.264 4.265 4.277 3.3065 3.316 3.3265 3.3278 3.32777 3.32777 3.3277 3.3277 3.3277 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.327777777777</td> <td></td>	887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           887           837           837           837           834           934      934      9	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.382 2.436 2.437 2.437 2.434 2.544 2.544 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.521 3.725 3.725 3.644 3.651 2.534 2.535 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555 2.555	2.829 2.829 2.829 3.31 3.31 3.424 3.426 3.604 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.264 4.261 4.264 4.264 4.264 4.265 4.277 3.3065 3.316 3.3265 3.3278 3.32777 3.32777 3.3277 3.3277 3.3277 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.32777 3.327777777777	
647 648 649 650 651 651 655 655 655 655 655 655 655 655	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052-2 LP2052-1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.362 2.376 2.487 2.487 2.484 2.844 2.844 2.878 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.821 3.825 3.847 3.847	2.829 2.821 3.31 3.01 3.424 3.442 3.804 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.261 4.27 3.324 4.12 4.336 4.12 4.3378 4.12 4.3378 4.12 4.347 4.22 4.3778 3.392 3.3062 3.3062 3.3062 3.3062 3.3062 3.3062 3.3062 3.3062 3.3062 3.3077 3.268 3.271 3.268 3.271 3.278 3.271 3.278 3.271 3.278 3.271 3.278 3.271 3.278 3.271 3.275 3.275 3.275 3.275 3.274 3.275 3.275 3.275 3.274 3.275 3.275 3.274 3.275 3	
647 648 649 650 651 653 654 655 656 657 658 656 656 666 661 662 663 664 665 666 665 666 665 666 667 671 672 673 674 677 677 677 677 677 677 677	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LP2052.2 LP2052.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2053.1 LP2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.87 8.87 8.87 8.87 8.87 8.87 8.87 8.87	0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	2.337 2.382 2.387 2.487 2.487 2.484 2.576 3.883 3.521 3.759 3.521 3.759 3.255 3.544 2.277 3.545 3.255 3.295 3.277 2.256 3.275	2.829 2.831 3.01 3.442 3.246 3.246 4.251 4.29 3.246 4.251 4.29 3.246 4.557 4.29 3.242 4.557 4.29 3.242 4.557 4.29 3.342 4.557 4.29 3.342 4.557 4.29 3.342 4.557 4.29 3.342 4.557 4.29 3.342 4.557 4.29 3.342 4.557 4.29 3.342 4.557 4.29 3.342 4.557 4.29 3.342 4.557 4.29 3.322 3.332 3.332 3.332 3.322 3.327 3.3258 3.327 3.358 3.327 3.358 3.327 3.358 3.327 3.358 3.327 3.358 3.327 3.358 3.327 3.358 3.327 3.358 3.3725 3.378 3.378 3.378 3.378 3.378 3.378 3.378 3.378 3.377 3.3777 3.3777 3.377 3.3777 3.3777 3.3777 3.3777 3.3777 3.3777 3.377	

701								0.004	
700	5	LP2052-2	50	8.86	9.34	0.48	2.497	3.021	+
702	5	LP2052-2	50	8.86	9.34	0.48	2.219	2.685	
703	5	LP2052-2	50	8.86	9.34	0.48	2.186	2.644	+
704	5	LP2052-2	50	8.86	9.34	0.48	2.267	2.743	+
705	5	LP2052-2	50	8.86	9.34	0.48	2.359	2.853	
706	5	LP2052-2	50	8.86	9.34	0.48	2.31	2.795	+
707	5	LP2052-2	50	8.86	9.34	0.48	2.523	3.053	
708	5	LP2052-2	50	8.86	9.34	0.48	2.482	3.002	
709	5	LP2052-2	50	8.86	9.34	0.48	2.592	3.137	
710	5	LP2052-2	50	8.86	9.34	0.48	2.608	3.152	
711	5	LP2052-2	50	8.86	9.34	0.48	2.742	3.319	
712	5	LP2052-2	50	8.86	9.34	0.48	2.747	3.325	
713	5	LP2052-2	50	8.86	9.34	0.48	2.796	3.384	+
714	5	LP2052-2	50	8.86	9.34	0.48	2.918	3.528	+
715	5	LP2052-2	50	8.86	9.34	0.48	2.933	3.547	+
716	5	LP2052-2	50	8.86	9.34	0.48	3.091	3.742	+
717	5	LP2052-2	50	8.86	9.34	0.48	3.284	3.974	+
									+
718	5	LP2052-2	50	8.86	9.34	0.48	3.388	4.098	
719	5	LP2052-2	50	8.86	9.34	0.48	3.441	4.162	$\perp$
720	5	LP2052-2	50	8.86	9.34	0.48	4.103	4.965	
721	5	LP2052-2	50	8.86	9.34	0.48	4.454	5.388	
722	5	LP2052-2	50	8.86	9.34	0.48	4.058	4.911	
723	5	LP2052-2	50	8.86	9.34	0.48	3.622	4.383	
724	5	LP2052-2	50	8.86	9.34	0.48	3.727	4.507	Т
725	5	LP2052-2	50	8.86	9.34	0.48	3.917	4.739	
726	5	LP2052-2	50	8.86	9.34	0.48	4.112	4.976	+
727	5	LP2052-2	50	8.86	9.34	0.48	4.329	5.234	+
728	5	LP2052-2	50	8.86	9.34	0.48	4.344	5.257	+
729	5	LP2052-2	50	8.86	9.34	0.48	3.985	4.821	+
728	5	LP2052-2 LP2052-2	50	8.86	9.34	0.48	4.188	5.068	+
									+
731	5	LP2052-2	50	8.86	9.34	0.48	3.895	4.714 E.079	
732	5	LP2052-2	50	8.86	9.34	0.48	4.196	5.078	+
733	5	LP2052-2	50	8.86	9.34	0.48	4.215	5.096	+
734	6	LP2052-1	50	8.86	9.1	0.24	3.286	3.977	$\perp$
735	6	LP2052-1	50	8.86	9.1	0.24	4.095	4.951	
736	6	LP2052-1	50	8.86	9.1	0.24	4.435	5.367	
737	6	LP2052-1	50	8.86	9.1	0.24	4.51	5.453	
738	6	LP2052-1	50	8.86	9.1	0.24	4.623	5.593	
739	6	LP2052-1	50	8.86	9.1	0.24	4.182	5.056	+
740	6	LP2052-1	50	8.86	9.1	0.24	4.398	5.321	+
741	6	LP2052-1	50	8.86	9.1	0.24	2.781	3.365	+
742	6	LP2052-1	50	8.86	9.1	0.24	2.889	3.495	+
742	6	LP2052-1	50	8.86	9.1	0.24	3.021	3.654	+
743		LP2052-1 LP2052-1	50	8.86			3.021 3.012	3.654	+
744	6	LP2052-1 LP2052-1	50		9.1	0.24			
	6			8.86	9.1	0.24	3.072	3.717	
					9.1	0.24		3.926	
746	6	LP2052-1	50	8.86			3.244	-	
747	6	LP2052-1	50	8.86	9.1	0.24	3.179	3.845	
	6		50 50		9.1 9.1			-	
747	6	LP2052-1	50	8.86	9.1	0.24	3.179	3.845	
747 748	6	LP2052-1 LP2052-1	50 50	8.86 8.86	9.1 9.1	0.24 0.24	3.179 3.369	3.845 4.078	
747 748 749	6 6 6 6	LP2052-1 LP2052-1 LP2052-1	50 50 50 50	8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1	0.24 0.24 0.24	3.179 3.369 3.416 3.473	3.845 4.078 4.132 4.202	
747 748 749 750	6 6 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50	8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24	3.179 3.369 3.416 3.473	3.845 4.078 4.132 4.202	s Up
747 748 749 750 ShotNumber	6 6 6 TargetLocation	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice	50 50 50 50 BFFrequency-MHz	8.86 8.86 8.86 8.86 RFStartTime-us	9.1 9.1 9.1 9.1 RFStopTime-us	0.24 0.24 0.24 0.24 RFTotalDuration-us	3.179 3.369 3.416 3.473 RFAvgPk-Volts	3.845 4.078 4.132 4.202 RFMaxPk-Volt	s Up
747 748 749 750 ShotNumber 751	6 6 6 TargetLocation 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1	50 50 50 RFFrequency-MHz 50	8.86 8.86 8.86 8.86 RFStartTime-us 8.86	9.1 9.1 9.1 9.1 BFStopTime-us 9.1	0.24 0.24 0.24 0.24 RFTotalDuration-us 0.24	3.179 3.369 3.416 3.473 RFAvgPk-Volts 3.495	3.845 4.078 4.132 4.202 RFMaxPk-Volt: 4.229	s Up
747 748 749 750 ShotNumber 751 752 753	6 6 7 argetLocation 6 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1	50 50 50 BFFrequency-MHz 50 50 50	8.86 8.86 8.86 8.86 RFStartTime-us 8.86 8.86 8.86	9.1 9.1 9.1 RFStopTime-us 9.1 9.1 9.1	0.24 0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24	3.179 3.369 3.416 3.473 RFAvgPk-Volts 3.495 3.712 3.802	3.845 4.078 4.132 4.202 RFMaxPk-Volt: 4.229 4.493 4.602	s Up
747 748 750 ?50 ?51 751 752 753 754	6 6 7 argetLocation 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 RFFrequency-MHz 50 50 50 50	8.86 8.86 8.86 8.86 PFStartTime-us 8.86 8.86 8.86 8.86	9.1 9.1 9.1 RFStopTime-us 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24 0.24	3.179 3.369 3.416 3.473 RFAvgPk-Volts 3.495 3.712 3.802 3.76	3.845 4.078 4.132 4.202 PFMaxPk-Volt: 4.229 4.493 4.602 4.551	s Up
747 748 750 %hotNumber 751 752 753 754 755	6 6 7 argetLocation 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FFFrequency-MHz 50 50 50 50 50 50	8.86 8.86 8.86 RFStartTime-us 8.86 8.86 8.86 8.86 8.86	9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24 0.24 0.24	3.179 3.369 3.416 3.473 RFAvgPk-Volts 3.495 3.712 3.802 3.76 3.799	3.845 4.078 4.132 4.202 BFMasPk-Volt 4.229 4.493 4.602 4.551 4.594	
747 748 749 750 ihotNumber 751 752 753 754 755 756	6 6 7 argetLocation 6 6 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 FIFFrequency-MHz 50 50 50 50 50 50 50	8.86 8.86 8.86 FFStartTime-us 8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.8	9.1 9.1 9.1 BFStopTime-us 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24 0.24 0.24 0.24	3.179 3.369 3.416 3.473 8FAvgPk-Volts 3.495 3.712 3.802 3.76 3.739 3.341	3.845 4.078 4.132 4.202 BFMaxPk-Volt: 4.229 4.433 4.602 4.551 4.594 4.764	s Up
747 748 749 750 %hotNumber 751 752 753 754 755 756 756 757	6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	3.1 3.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9	0.24 0.24 0.24 0.24 RFTotalDuration-us 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	3.179 3.369 3.416 3.473 BFAvgPk-Volts 3.495 3.712 3.802 3.76 3.799 3.341 4.003	3.845 4.078 4.132 4.202 RFMaxPk-Volt 4.229 4.493 4.602 4.551 4.551 4.554 4.764 4.843	s Up
747 748 750 hotNumber 751 752 753 754 755 756 756 757 758	6 6 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	3.1 3.1 3.1 RFStopTime-us 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	3.179 3.369 3.416 3.473 RFAvgPk-Volts 3.495 3.712 3.802 3.76 3.799 3.941 4.15	3.845 4.078 4.132 4.202 PFMaxPk-Volt; 4.203 4.493 4.802 4.551 4.551 4.554 4.554 4.584 5.021	5 Up
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747 748 743 750 hotNumber 751 752 753 754 755 755 756 755 756 756 757 758 759 760 761 762 763 764 765 766 765 766 765 766 767 768 769 770 777	6 6 7 argetLocation 7 argetLocation 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2052-1 LP2052	50 50 50 FFFcquencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 86 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	91           91           91           81           91	024 024 024 024 024 024 024 024 024 024	3,179 3,269 3,446 3,473 3,48 3,445 3,495 3,495 3,495 3,495 3,799 3,379 3,341 4,15 4,15 4,15 4,15 4,11 4,374 4,51 4,31 4,37 4,491 4,38 4,491 4,38 4,491 5,007 5,13 5,263 5,002 5,023 5,002 4,806	3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.480 4.602 4.551 4.561 4.561 4.561 4.561 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.025 5.435 5.735 5.665 6.652 6.652 6.652 6.613 6.052 6.052 6.052 6.055	
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747 748 749 750 hotNumber 751 752 753 754 755 755 756 756 756 756 756 756 756 756	6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	LP2052-1 LP2052	50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 86 8 86 8 86 8 86 8 86 8 86 8 86 8 86	91           91	024 024 024 024 024 024 024 024 024 024	3,779 3,269 3,446 3,269 3,446 3,445 3,445 3,445 3,445 3,445 3,479 3,376 4,15 4,574 4,514 4,514 4,514 4,514 4,514 4,524 4,531 4,554 4,584 4,584 4,584 4,584 5,507 5,152 5,502 4,800 4	3.845 4.078 4.132 4.229 4.229 4.229 4.430 4.551 4.229 4.551 4.551 4.551 4.551 5.255 5.021 5.021 5.021 5.021 5.021 5.295 5.275 5.295 5.295 5.275	
747 748 749 750 751 755 756 755 756 757 758 756 757 758 756 757 758 756 757 758 756 757 758 756 757 758 756 760 761 762 763 764 765 766 765 766 765 766 765 766 767 770 778 773 777 773 777	6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	LP2052-1 LP2052	50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 96 0.96 0.96 1512 at Time-us 1512 at Time-us 0.96	9.1         9.1           9.1         9.1	024 024 024 024 024 024 024 024 024 024	3,179 3,348 3,348 3,348 3,349 3,349 3,349 3,349 3,349 3,349 3,349 3,379 3,344 4,00 3,378 3,364 4,00 3,378 3,364 4,00 4,15 4,15 4,374 4,38 4,381 4,374 4,38 4,481 4,38 4,481 4,38 4,481 5,00 4,84 5,00 5,10 5,10 5,10 5,10 5,10 5,12 5,12 5,12 5,12 5,12 5,12 5,12 5,12	3.845 4.078 4.132 FIFMaarEx.Volt 4.229 4.483 4.802 4.551 4.254 4.851 4.764 4.853 5.021 5.027 5.027 5.027 5.027 5.027 5.295 5.435 5.445 5.4355 5.4355 5.435555555555	
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747 748 749 750 751 751 755 756 755 756 757 757 758 759 759 759 759 759 759 759 759 759 759	6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	LP2062-1           LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8 86 0.86 0.86 1652 at Time-us 1552 at Time-us 1552 at Cime-us 1552 at Cime-us 1552</td><td>9:1         9:1           9:1         9:1</td><td>024 024 024 024 024 024 024 024 024 024</td><td>3,179 3,269 3,346 3,348 3,348 3,348 3,348 3,349 3,349 3,349 3,349 3,360 4,15 4,364 4,361 4,374 4,361 4,374 4,361 4,374 4,361 4,374 4,381 4,374 4,381 4,374 4,381 4,38 4,481 5,002 5,513 5,563 5,562 5,562 5,562 5,562 2,567 2,588 2,425 2,567 2,588 2,484 3,64 3,6</td><td>3.845 4.078 4.132 FFMaaFk-Volk FFMaaFk-Volk FFMaaFk-Volk 4.229 4.433 4.602 4.551 4.254 4.551 5.265 5.275 5.265 5.265 5.265 5.265 5.265 5.265 5.265 5.265 5.275 5.265 5.265 5.265 5.275 5.265 5.265 5.265 5.275 5.26 5.275 5.26 5.26 5.26 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.27 5.27 5.27 5.27 5.27 5.27 5.27 5.27</td><td></td></t<>	50 50 50 FFFrequency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 86 0.86 0.86 1652 at Time-us 1552 at Time-us 1552 at Cime-us 1552	9:1         9:1           9:1         9:1	024 024 024 024 024 024 024 024 024 024	3,179 3,269 3,346 3,348 3,348 3,348 3,348 3,349 3,349 3,349 3,349 3,360 4,15 4,364 4,361 4,374 4,361 4,374 4,361 4,374 4,361 4,374 4,381 4,374 4,381 4,374 4,381 4,38 4,481 5,002 5,513 5,563 5,562 5,562 5,562 5,562 2,567 2,588 2,425 2,567 2,588 2,484 3,64 3,6	3.845 4.078 4.132 FFMaaFk-Volk FFMaaFk-Volk FFMaaFk-Volk 4.229 4.433 4.602 4.551 4.254 4.551 5.265 5.275 5.265 5.265 5.265 5.265 5.265 5.265 5.265 5.265 5.275 5.265 5.265 5.265 5.275 5.265 5.265 5.265 5.275 5.26 5.275 5.26 5.26 5.26 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.275 5.26 5.27 5.27 5.27 5.27 5.27 5.27 5.27 5.27	
747 748 749 750 750 751 752 756 756 756 756 756 756 756 756 756 756	6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	LP2052-1 LP2052-2 LP205-	50 50 50 FFFrequency/MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	3.179 3.369 3.449 3.449 3.449 3.449 3.495 3.702 3.860 3.772 3.895 3.781 3.895 3.784 4.003 4.15 4.003 4.15 4.003 4.15 4.037 4.374 4.384 4.374 4.384 4.374 4.384 4.481 5.003 5.07 5.13 5.032 5.02 5.0	3.845 4.078 4.132 8.14132 8.14132 4.132 4.232 8.1433 4.224 4.493 4.224 4.493 4.551 4.264 4.764 4.443 4.764 4.464 4.764 4.764 4.764 4.764 4.764 5.285 5.285 5.285 5.285 5.285 5.285 5.285 5.285 5.285 5.86 5.88 5.88 5.88 5.88 5.88 5.88 5.	
747 749 749 750 751 751 755 756 755 756 755 756 757 758 757 758 759 759 759 759 759 759 759 759 759 759	6 6 6 7 7 7 9 6 6 6 6 6 6 6 6 6 6 6 6 6	LP2062-1           LP2062-1           LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFcquencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8 86 8 86</td><td>91           91</td><td>024 024 024 024 024 024 024 024 024 024</td><td>3,179 3,269 3,446 3,269 3,346 3,449 3,449 3,449 3,449 3,449 3,779 3,341 4,15 4,17 4,17 4,17 4,17 4,17 4,17 4,17 4,17</td><td>3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.480 4.229 4.480 4.229 4.480 4.551 4.251 4.561 4.561 4.561 4.561 5.285 5.295 5.295 5.295 5.295 5.295 5.293 5.295</td><td></td></t<>	50 50 50 FFFcquencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 86 8 86	91           91	024 024 024 024 024 024 024 024 024 024	3,179 3,269 3,446 3,269 3,346 3,449 3,449 3,449 3,449 3,449 3,779 3,341 4,15 4,17 4,17 4,17 4,17 4,17 4,17 4,17 4,17	3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.480 4.229 4.480 4.229 4.480 4.551 4.251 4.561 4.561 4.561 4.561 5.285 5.295 5.295 5.295 5.295 5.295 5.293 5.295	
747 748 749 750 751 751 751 755 756 755 756 757 757 758 757 758 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 86 8 86	9.1         9.1           9.1         9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	3.179 3.369 3.449 3.449 3.449 3.45 3.495 3.702 3.769 3.789 3.541 4.003 3.769 3.541 4.003 3.769 3.541 4.15 4.01 4.374 4.391 4.451 4.451 4.451 4.451 5.003 5.07 5.13 5.632 5.63 5.632 5.63 5.632 5.63 5.632 5.63 5.63 5.63 5.63 5.63 5.63 5.63 5.63	3.845 4.078 4.132 FFMaarEx.Volt 4.229 4.433 4.229 4.483 4.551 4.229 4.554 4.764 4.853 5.021 5.027 5.233 5.265 5.021 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.295 5.86 5.86 5.86 5.86 5.86 5.86 5.86 5.8	
747 749 749 749 750 751 751 755 756 755 756 755 756 757 758 757 758 757 758 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 86 8 86	91           91	024 024 024 024 024 024 024 024 024 024	3,779 3,289 3,346 3,345 3,346 3,346 3,346 3,349 3,349 3,349 3,349 3,341 4,351 4,151 4,154 4,375 4,37 4,37 4,37 4,37 4,37 4,37 4,37 4,37	3.845 4.078 4.132 4.229 4.432 4.229 4.450 4.229 4.450 4.251 4.251 4.551 4.551 4.551 5.285 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.025	
747 748 749 750 751 751 755 756 755 756 755 756 757 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2062-1           LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8 96 0.96 0.96 15124TIme-us 15124TIme-us 15124TIme-us 15124Time-us</td><td>9.1         9.1           9.1</td><td>024 024 024 024 024 024 024 024 024 024</td><td>3.179 3.369 3.46 3.479 3.46 3.449 5.02 3.769 3.841 4.03 3.739 3.341 4.03 3.739 3.341 4.05 4.15 4.15 4.15 4.374 4.73 4.15 4.37 4.15 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.0</td><td>3.845 4.078 4.132 FIFMaarEx.Volt FIFMaarEx.Volt 4.229 4.482 4.229 4.483 4.229 4.551 4.229 5.295 5.295 5.295 5.295 5.295 5.293 5.295 5.435 5.785 5.295 5.435 5.785 5.295 5.435 5.785 5.295 5.435 5.785 5.295 5.435 5.86 5.86 5.86 5.86 5.86 5.86 5.86 5.8</td><td></td></t<>	50 50 50 FFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 96 0.96 0.96 15124TIme-us 15124TIme-us 15124TIme-us 15124Time-us	9.1         9.1           9.1	024 024 024 024 024 024 024 024 024 024	3.179 3.369 3.46 3.479 3.46 3.449 5.02 3.769 3.841 4.03 3.739 3.341 4.03 3.739 3.341 4.05 4.15 4.15 4.15 4.374 4.73 4.15 4.37 4.15 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.0	3.845 4.078 4.132 FIFMaarEx.Volt FIFMaarEx.Volt 4.229 4.482 4.229 4.483 4.229 4.551 4.229 5.295 5.295 5.295 5.295 5.295 5.293 5.295 5.435 5.785 5.295 5.435 5.785 5.295 5.435 5.785 5.295 5.435 5.785 5.295 5.435 5.86 5.86 5.86 5.86 5.86 5.86 5.86 5.8	
747 749 749 749 750 751 755 755 756 756 756 757 758 757 758 757 758 758 758 759 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2062.1           LP2062.1           LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>8 86 8 86</td><td>91           91</td><td>024 024 024 024 024 024 024 024 024 024</td><td>3,79 3,269 3,246 3,245 3,245 3,245 3,245 3,245 3,445 3,445 3,802 3,769 3,341 4,54 4,54 4,51 4,54 4,51 4,54 4,51 4,54 4,51 4,54 4,51 4,54 4,51 5,07 5,17 5,16 5,07 5,17 5,16 2,28 4,50 4,50 2,28 2,28 2,28 2,28 2,28 2,28 2,28 2,2</td><td>3 845 4.078 4.132 4.229 4.432 4.229 4.435 4.802 4.554 4.554 4.554 4.554 4.554 5.216 5.226 5.216 5.226 5.226 5.235 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.295 5.395</td><td></td></t<>	50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 86 8 86	91           91	024 024 024 024 024 024 024 024 024 024	3,79 3,269 3,246 3,245 3,245 3,245 3,245 3,245 3,445 3,445 3,802 3,769 3,341 4,54 4,54 4,51 4,54 4,51 4,54 4,51 4,54 4,51 4,54 4,51 4,54 4,51 5,07 5,17 5,16 5,07 5,17 5,16 2,28 4,50 4,50 2,28 2,28 2,28 2,28 2,28 2,28 2,28 2,2	3 845 4.078 4.132 4.229 4.432 4.229 4.435 4.802 4.554 4.554 4.554 4.554 4.554 5.216 5.226 5.216 5.226 5.226 5.235 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.293 5.295 5.395	
747 748 749 749 750 751 751 755 756 755 756 755 756 757 758 757 758 757 758 759 757 758 759 757 758 759 757 757 758 759 757 759 757 759 759 759 759 759 759	6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	LP2062-1           LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8 86 0.86 0.86 1.65 1</td><td>91           91</td><td>024 024 024 024 024 024 024 024 024 024</td><td>3,179 3,269 3,448 3,449 3,449 3,449 3,449 3,449 3,449 3,449 3,729 3,374 4,15 4,15 4,15 4,15 4,15 4,15 4,15 4,1</td><td>3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.482 4.229 4.482 4.602 4.551 4.251 5.215 5.225 5.235 5.235 5.235 5.235 5.235 5.265 5.2757 5.27577 5.27577 5.275775 5.275775 5.27577575757575757575757575757575757575</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8 86 0.86 0.86 1.65 1	91           91	024 024 024 024 024 024 024 024 024 024	3,179 3,269 3,448 3,449 3,449 3,449 3,449 3,449 3,449 3,449 3,729 3,374 4,15 4,15 4,15 4,15 4,15 4,15 4,15 4,1	3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.482 4.229 4.482 4.602 4.551 4.251 5.215 5.225 5.235 5.235 5.235 5.235 5.235 5.265 5.2757 5.27577 5.27577 5.275775 5.275775 5.27577575757575757575757575757575757575	
747 748 749 750 751 751 751 755 756 755 756 757 755 756 757 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	9.1         9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	3.179 3.369 3.449 3.449 3.449 3.45 3.495 3.702 3.769 3.729 3.789 3.541 4.003 3.789 3.541 4.03 3.789 3.541 4.05 3.789 3.541 4.05 3.774 4.38 4.00 5.003 5.07 5.13 5.632 5.022 5.028 4.043 3.616 5.032 5.02 5.028 4.043 3.616 5.13 5.632 2.2667 2.568 4.043 3.616 3.774 3.864 3.714 3.864 3.714 3.864 3.714 3.864 3.774 3.877 3.8	3.845 4.078 4.132 6.078 4.132 6.078 4.132 6.078 4.229 4.433 4.229 4.433 4.501 4.229 4.483 4.501 4.229 4.504 4.501 5.027 5.228 5.233 5.245 5.293 5.245 5.293 5.245 5.293 5.245 5.293 5.245 5.295 5.293 5.245 5.29 5.29	
747 748 749 749 750 751 751 755 756 755 756 755 756 757 758 757 758 757 758 759 757 758 759 757 758 759 757 757 758 759 757 759 757 759 759 759 759 759 759	6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	LP2062-1           LP2052-1           LP2052-2           LP2052-2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>8 86 0.86 0.86 1.65 1</td><td>91           91</td><td>024 024 024 024 024 024 024 024 024 024</td><td>3,179 3,269 3,448 3,449 3,449 3,449 3,449 3,449 3,449 3,449 3,729 3,374 4,15 4,15 4,15 4,15 4,15 4,15 4,15 4,1</td><td>3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.480 4.229 4.480 4.229 4.602 4.551 4.251 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.025</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8 86 0.86 0.86 1.65 1	91           91	024 024 024 024 024 024 024 024 024 024	3,179 3,269 3,448 3,449 3,449 3,449 3,449 3,449 3,449 3,449 3,729 3,374 4,15 4,15 4,15 4,15 4,15 4,15 4,15 4,1	3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.480 4.229 4.480 4.229 4.602 4.551 4.251 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.025	
747 748 749 750 751 751 751 755 756 755 756 757 755 756 757 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8.86 8.86 8.86 8.86 8.86 8.86 8.86 8.86	9.1         9.1           9.1	0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24	3.179 3.369 3.449 3.449 3.449 3.45 3.495 3.702 3.769 3.729 3.789 3.541 4.003 3.789 3.541 4.03 3.789 3.541 4.05 3.789 3.541 4.05 3.774 4.38 4.00 5.003 5.07 5.13 5.632 5.022 5.028 4.043 3.616 5.032 5.02 5.028 4.043 3.616 5.13 5.632 2.2667 2.568 4.043 3.616 3.774 3.864 3.714 3.864 3.714 3.864 3.714 3.864 3.774 3.877 3.8	3.845 4.078 4.132 6.078 4.132 6.078 4.132 6.078 4.229 4.433 4.229 4.433 4.501 4.229 4.483 4.501 4.229 4.504 4.501 5.027 5.228 5.233 5.245 5.293 5.245 5.293 5.245 5.293 5.245 5.293 5.245 5.295 5.293 5.245 5.29 5.29	
747 748 749 749 750 751 751 755 756 755 756 757 758 759 757 758 759 759 759 759 759 759 759 759 759 759	6 6 6 7 7 7 7 9 7 9 7 9 7 9 7 9 7 9 7 9	LP2062-1 LP2052-2 LP205-	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8 86 8 86	91           91	024 024 024 024 024 024 024 024 024 024	3,179 3,269 3,446 3,445 3,445 3,445 3,445 3,445 3,445 3,445 3,445 3,379 3,341 4,15 4,15 4,15 4,15 4,15 4,15 4,17 4,27 4,28 4,841 4,27 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,841 4,28 4,84 4,84 4,84 4,84 4,84 4,84 4,84	3.845 4.078 4.132 FFMaaPk-Volt 4.229 4.480 4.229 4.480 4.229 4.480 4.229 4.480 4.229 4.480 4.229 4.480 4.229 4.591 4.229 5.225 5.225 5.225 5.225 5.225 5.225 5.225 5.225 5.225 5.235 5.245 5.248 5.255 5.265 5.265 5.268 5.275 5.288 5.293 5.295 5.293 5.295 5.293 5.295 5.293 5.295 5.293 5.295	
747 749 749 749 750 751 751 755 756 755 756 757 758 757 758 757 758 759 757 758 759 757 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 96 0.96 0.96 159 at Time-us 159 at Time-us 0.98 0.96	9.1           9.1      9.1      9	024 024 024 024 024 024 024 024 024 024	3,779 3,289 3,246 3,246 3,246 3,246 3,246 3,246 3,249 3,249 3,249 3,249 3,249 3,249 3,249 4,259 4,24 4,261 4,262 4,265 4,26 4,265 4,26 4,26 4,26 4,26 4,26 4,26 4,26 4,26	3 845 4.078 4.132 4.229 4.432 4.229 4.430 4.229 4.450 4.229 4.450 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.021 5.025	
747 748 749 749 750 751 751 755 756 755 755 756 757 757 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 FFF:equency_MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 86 0.86 0.86 0.96	9.1           9.1      9.1      9	024 024 024 024 024 024 024 024 024 024	3.179 3.269 3.416 3.445 3.445 3.445 3.495 3.495 3.495 3.495 3.729 3.361 4.15 4.64 4.641 4.531 4.531 4.531 4.531 4.531 4.531 4.531 4.531 4.531 4.531 5.553 5.55 5.5	3.845 4.078 4.132 4.132 4.132 4.132 4.132 4.132 4.229 4.482 4.229 4.483 4.229 4.482 4.551 4.264 4.541 5.021 5.027	
747 749 749 749 750 753 755 755 756 756 756 756 757 758 757 758 757 758 758 759 758 759 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 FFFequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 96 8 96 8 96 8 96 9 96 8 96	91           91	024 024 024 024 024 024 024 024 024 024	3,79 3,269 3,246 3,245 3,245 3,245 3,245 3,245 3,245 3,445 3,445 3,845 3,249 3,249 4,15 4,15 4,15 4,15 4,15 4,15 4,15 4,15	3 845 4.078 4.132 4.229 4.432 4.229 4.433 4.802 4.554 4.554 4.554 4.554 4.554 5.215 5.225 5.216 5.225 5.216 5.225 5.235 5.235 5.235 5.235 5.235 5.235 5.245 5.235 5.245	
747 748 749 749 750 751 755 756 755 756 757 757 758 757 758 757 758 757 758 759 757 758 757 758 759 756 757 758 756 757 758 756 757 758 756 757 758 758 759 759 750 757 758 759 759 760 761 762 763 763 763 763 763 765 763 763 765 763 763 765 765 763 763 765 763 763 763 765 763 765 763 763 763 763 763 763 765 763 765 763 763 765 763 763 763 765 763 763 763 763 763 765 775 775 775 775 775 775 775 775 775	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8 86 8 86	91           91	024 024 024 024 024 024 024 024 024 024	3,179 3,269 3,348 3,348 3,349 3,348 3,349 3,349 3,349 3,349 3,349 3,349 3,379 3,341 4,15 4,17 4,37 4,15 4,17 4,37 4,19 4,19 4,19 4,19 4,19 4,19 4,19 4,19	3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.480 4.229 4.480 4.229 4.480 4.229 4.602 4.551 4.251 5.295	
747 748 749 750 751 751 752 755 756 755 756 757 755 756 757 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	8 96 0.96 0.96 1.96	9.1           9.1      1.1      1.1	024 024 024 024 024 024 024 024 024 024	3.179 3.369 3.449 3.449 3.495 3.495 3.495 3.495 3.495 3.495 3.495 3.495 3.495 3.495 3.495 3.495 3.495 3.495 3.491 4.15 4.15 4.15 4.15 4.15 4.15 4.15 4.1	3.845 4.078 4.132 6.078 4.132 6.078 6.4132 6.229 6.435 6.4229 6.4229 6.483 6.455 6.455 6.455 6.275 6.23 6.21 6.21 6.22 6.26 6.21 6.21 6.22 6.26 6.21 6.21	
747 748 749 749 750 751 751 755 756 755 756 757 758 759 759 759 759 759 759 759 759 759 759	6           6	LP2052-1 LP2052-2 LP205-	50 50 50 50 50 50 50 50 50 50 50 50 50 5	8 86 8 86	91           91	024 024 024 024 024 024 024 024 024 024	3,179 3,269 3,348 3,348 3,349 3,348 3,349 3,349 3,349 3,349 3,349 3,349 3,379 3,341 4,15 4,17 4,37 4,15 4,17 4,37 4,19 4,19 4,19 4,19 4,19 4,19 4,19 4,19	3.845 4.078 4.132 FFMaaPk-Volk 4.229 4.480 4.229 4.480 4.229 4.480 4.229 4.602 4.551 4.251 5.295	

801 802								RFMaxPk-Volt	
802	6	LP2052-2	50	8.86	9.1	0.24	4.493	5.431	
	6	LP2052-2	50	8.86	9.1	0.24	4.568	5.528	
803	6	LP2052-2	50	8.86	9.1	0.24	4.548	5.503	
804	6	LP2052-2	50	8.86	9.1	0.24	4.582	5.546	0
805	6	LP2052-2	50	8.86	9.1	0.24	4.691	5.671	1
806	6	LP2052-2	50	8.86	9.1	0.24	4.662	5.642	-
807	6	LP2052-2	50	8.86	9.1	0.24	4.758	5.758	
808	6	LP2052-2	50	8.86	9.1	0.24	4.356	5.271	
809	6	LP2052-2	50	8.86	9.1	0.24	5.23	6.327	
810	6	LP2052-2	50	8.86	9.1	0.24	5.247	6.351	
811	6	LP2052-2	50	8.86	9.1	0.24	5.285	6.389	
812	6	LP2052-2	50	8.86	9.1	0.24	5.294	6.407	
813	6	LP2052-2	50	8.86	9.1	0.24	5.26	6.359	
814	6	LP2052-2	50	8.86	9.1	0.24	5.306	6.415	
815	6	LP2052-2	50	8.86	9.1	0.24	5.32	6.436	+
816	6	LP2052-2	50	8.86	9.1	0.24	5.324	6.443	+
817	6	LP2052-2	50	8.86	9.1	0.24	5.288	6.397	+
818	6	LP2052-2	50	8.86	9.1	0.24	5.34	6.463	+
819	6	LP2052-2	50	8.86	9.1	0.24	4.48	5.423	+
			50				3.988		+
820	6	LP2052-2		8.86	9.1	0.24		4.821	+
821	6	LP2052-2	50	8.86	9.1	0.24	4.239	5.13	+
822	6	LP2052-2	50	8.86	9.1	0.24	4.401	5.327	
823	6	LP2052-2	50	8.86	9.1	0.24	4.436	5.369	
824	6	LP2052-2	50	8.86	9.1	0.24	4.519	5.466	
825	6	LP2052-2	50	8.86	9.1	0.24	4.667	5.646	
826	8	LP2052-1	50	9.32	9.38	0.06	0.7238	0.8751	
827	8	LP2052-1	50	9.32	9.38	0.06	0.7432	0.8986	
828	8	LP2052-1	50	9.32	9.38	0.06	0.8324	1.008	
829	8	LP2052-1	50	9.32	9.38	0.06	0.701	0.8473	
830	8	LP2052-1	50	9.32	9.38	0.06	0.436	0.5273	+
831	8	LP2052-1	50	9.32	9.38	0.06	0.6226	0.753	1
832	8	LP2052-1	50	9.32	9.38	0.06	0.5234	0.6335	+
833	8	LP2052-1	50	9.32	9.38	0.06	0.622	0.7518	+
834	8	LP2052-1	50	9.32	9.38	0.06	0.528	0.6391	+
	8		50				0.528	0.948	+
835		LP2052-1		9.32	9.38	0.06		0.948	
836	8	LP2052-1	50	9.32	9.38	0.06	0.7756		+
837	8	LP2052-1	50	9.32	9.38	0.06	0.6218	0.7523	
838	8	LP2052-1	50	9.32	9.38	0.06	0.6061	0.733	
839	8	LP2052-1	50	9.32	9.38	0.06	0.6365	0.7706	-
840	8	LP2052-1	50	9.32	9.38	0.06	0.7353	0.8898	
841	8	LP2052-1	50	9.32	9.38	0.06	1.195	1.447	
842	8	LP2052-1	50	9.32	9.38	0.06	1.091	1.321	
843	8	LP2052-1	50	9.32	9.38	0.06	1.191	1.442	
844	8	LP2052-1	50	9.32	9.38	0.06	1.293	1.565	
845	8	LP2052-1	50	9.32	9.38	0.06	1.311	1.587	
846	8	LP2052-1	50	9.32	9.38	0.06	1.397	1.689	+
847	8	LP2052-1	50	9.32	9.38	0.06	1.242	1.503	+
			50	0.00				1460	
848	8	LP2052-1	50 50	9.32	9.38	0.06	1.207	1.459	
848 849	8	LP2052-1 LP2052-1	50	9.32	9.38 9.38	0.06	1.207 1.247	1.509	
848 849 850	8 8 8	LP2052-1 LP2052-1 LP2052-1	50 50	9.32 9.32	9.38 9.38 9.38	0.06 0.06 0.06	1.207 1.247 1.507	1.509 1.825	
848 849 850 ShotNumber	8 8 8 TargetLocation	LP2052-1 LP2052-1 LP2052-1 TestDevice	50 50 RFFrequency-MHz	9.32 9.32 RFStartTime-us	9.38 9.38 9.38 RFStopTime-us	0.06 0.06 0.06 RFTotalDuration-us	1.207 1.247 1.507 RFAvgPk-Volts	1.509 1.825 RFMaxPk-Volt	s Up
848 849 850 ShotNumber 851	8 8 8 TargetLocation 8	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1	50 50 RFFrequency-MHz 50	9.32 9.32 RFStartTime-us 9.32	9.38 9.38 9.38 RFStopTime-us 9.38	0.06 0.06 0.06 RFTotalDuration-us 0.06	1.207 1.247 1.507 RFAvgPk-Volts 1.512	1.509 1.825 RFMaxPk-Volt 1.83	s Up
848 849 850 ShotNumber 851 852	8 8 TargetLocation 8 8	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1	50 50 RFFrequency-MHz 50 50	9.32 9.32 RFStartTime-us 9.32 9.32	9.38 9.38 9.38 RFStopTime-us 9.38 9.38	0.06 0.06 0.06 RFTotalDuration-us 0.06 0.06	1.207 1.247 1.507 RFAvgPk-Volts 1.512 1.703	1.509 1.825 RFMaxPk-Volt 1.83 2.06	s Up
848 849 850 ShotNumber 851 852 853	8 8 TargetLocation 8 8 8	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1	50 50 RFFrequency-MHz 50 50 50	9.32 9.32 RFStartTime-us 9.32 9.32 9.32	9.38 9.38 9.38 9.38 9.38 9.38 9.38 9.38	0.06 0.06 RFTotalDuration-us 0.06 0.06 0.06	1.207 1.247 1.507 RFAvgPk-Volts 1.512 1.703 1.749	1.509 1.825 RFMaxPk-Volt 1.83 2.06 2.118	s Up
848 849 850 ShotNumber 851 852 853 854	8 8 TargetLocation 8 8 8 8	LP2052-1 LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 BFFrequency-MHz 50 50 50 50	9.32 9.32 RFStartTime-us 9.32 9.32 9.32 9.32	9.38 9.38 9.38 PFStopTime-us 9.38 9.38 9.38 9.38 9.38	0.06 0.06 RFTotalDuration-us 0.06 0.06 0.06 0.06	1.207 1.247 1.507 RFAvgPk-Volts 1.512 1.703 1.749 1.64	1.509 1.825 RFMaxPk-Volt 1.83 2.06 2.118 1.386	s Up
848 849 850 hotNumber 851 852 853 854 855	8 8 TargetLocation 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LP2052-1 LP2052-1 TestDevice LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1 LP2052-1	50 50 BFFrequency-MHz 50 50 50 50 50	9.32 9.32 PFStartTime-us 9.32 9.32 9.32 9.32 9.32 9.32	9.38 9.38 9.38 9.38 9.38 9.38 9.38 9.38	0.06 0.06 0.06 RFTotalDuration-us 0.06 0.06 0.06 0.06 0.06	1.207 1.247 1.507 RFAvgPk-Volts 1.512 1.703 1.749 1.64 1.767	1.509 1.825 RFMaxPk-Volt 1.83 2.06 2.118 1.986 2.14	s Up
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848 849 850 850 851 852 853 854 855 855 855 855 855 855 855 855 855	8           8	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32</td><td>9.33 9.38 9.38 9.38 9.38 9.38 9.38 9.38</td><td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td><td>1207 1247 1507 1578 1577 1587 1577 157 157 157 158 164 1767 135 1865 2.36 2.374 2.318 2.374 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.344 2.344 2.344 2.344 2.345 2.345 2.34</td><td>1509           1825           PFMarFk-Volt           183           183           218           1396           218           1398           218           1398           214           205           256           2576           2586           2751           2824           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           1.219           1.229           1.229           1.229           1.229           1.229           1.446           1.626           1.744           1.524           1.526           1.744  <td></td></td></t<>	50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9.33 9.38 9.38 9.38 9.38 9.38 9.38 9.38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1578 1577 1587 1577 157 157 157 158 164 1767 135 1865 2.36 2.374 2.318 2.374 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.319 2.324 2.344 2.344 2.344 2.344 2.345 2.345 2.34	1509           1825           PFMarFk-Volt           183           183           218           1396           218           1398           218           1398           214           205           256           2576           2586           2751           2824           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           1.219           1.229           1.229           1.229           1.229           1.229           1.446           1.626           1.744           1.524           1.526           1.744 <td></td>	
848         849           849         850           850         851           852         853           855         856           857         856           859         860           861         862           862         863           866         867           866         867           870         871           877         878           877         878           877         878           880         881           882         884           885         884           885         884           885         884           885         884           885         884           885         884           885         887           888         888	8           8	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32</td><td>9 39 9 39 9 39 9 38 9 38 9 38 9 38 9 38</td><td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td><td>1207 1247 1507 1507 1507 1507 1512 1512 1512 1512 1512 1512 1512 154 164 1657 155 238 238 237 2314 2334 106 237 231 231 232 100 232 231 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.924 106 106 106 106 106 106 106 106 106 106</td><td>1509 1825 FIFMatrik-Volt. 183 1825 FIFMatrik-Volt. 183 218 189 218 218 218 238 218 238 238 238 238 238 238 238 238 238 23</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9 39 9 39 9 39 9 38 9 38 9 38 9 38 9 38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1507 1507 1507 1512 1512 1512 1512 1512 1512 1512 154 164 1657 155 238 238 237 2314 2334 106 237 231 231 232 100 232 231 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.9241 0.8238 0.924 106 106 106 106 106 106 106 106 106 106	1509 1825 FIFMatrik-Volt. 183 1825 FIFMatrik-Volt. 183 218 189 218 218 218 238 218 238 238 238 238 238 238 238 238 238 23	
848         849           849         850           850         851           852         853           854         855           855         856           857         858           856         857           858         856           857         858           861         862           863         866           867         868           868         867           872         874           875         877           877         877           878         879           881         882           884         885           884         885           888         888	8           8	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32</td><td>9.33 9.38 9.38 9.38 9.38 9.38 9.38 9.38</td><td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td><td>1207 1247 1507 1578 1577 1587 1578 157 157 158 154 155 138 184 1865 238 238 2374 2318 2374 2319 2374 2324 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 234 2327 234 2327 234 2327 234 2327 234 2327 234 234 234 234 234 234 234 234 234 234</td><td>1509           1825           PFMarFk-Volt           183           183           218           1396           218           1398           218           1398           214           205           256           2576           2586           2751           2824           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           1.219           1.229           1.229           1.229           1.229           1.229           1.446           1.626           1.744           1.524           1.526           1.744  <td></td></td></t<>	50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9.33 9.38 9.38 9.38 9.38 9.38 9.38 9.38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1578 1577 1587 1578 157 157 158 154 155 138 184 1865 238 238 2374 2318 2374 2319 2374 2324 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 2334 2327 234 2327 234 2327 234 2327 234 2327 234 2327 234 234 234 234 234 234 234 234 234 234	1509           1825           PFMarFk-Volt           183           183           218           1396           218           1398           218           1398           214           205           256           2576           2586           2751           2824           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           3.629           1.219           1.229           1.229           1.229           1.229           1.229           1.446           1.626           1.744           1.524           1.526           1.744 <td></td>	
848         849           849         850           850         851           852         853           855         856           857         856           859         860           861         862           862         863           866         867           866         867           870         871           877         878           877         878           877         878           880         881           882         884           885         884           885         884           885         884           885         884           885         884           885         884           885         887           888         888	8           8	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32</td><td>9 39 9 39 9 39 9 38 9 38 9 38 9 38 9 38</td><td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td><td>1207 1247 1507 1507 1507 1507 1512 1512 1512 1512 1512 1512 1512 154 164 1773 164 1865 238 238 2374 2334 106 237 239 239 239 239 239 239 239 239 239 239</td><td>1509 1825 FIFMatrik-Volt. 183 1825 FIFMatrik-Volt. 183 218 189 218 218 218 238 218 238 238 238 238 238 238 238 238 238 23</td><td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9 39 9 39 9 39 9 38 9 38 9 38 9 38 9 38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1507 1507 1507 1512 1512 1512 1512 1512 1512 1512 154 164 1773 164 1865 238 238 2374 2334 106 237 239 239 239 239 239 239 239 239 239 239	1509 1825 FIFMatrik-Volt. 183 1825 FIFMatrik-Volt. 183 218 189 218 218 218 238 218 238 238 238 238 238 238 238 238 238 23	
848         849           849         849           850         850           851         852           853         854           855         855           857         858           857         859           858         860           861         862           864         866           867         868           868         867           870         873           874         873           877         876           877         878           879         881           882         883           884         885           886         887           884         885           886         887	8           8	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9 33 9 38 9 38 9 38 9 38 9 38 9 38 9 38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1507 1507 1507 1517 1517 1517 151	1509 1825 FIFMatrix-Volt. 183 1825 FIFMatrix-Volt. 183 218 1396 218 1396 214 2.05 2.18 1396 2.36 2.95 2.95 2.95 2.95 2.95 2.95 2.95 2.95	
848         849           849         850           850         851           852         853           855         856           857         858           859         860           861         862           863         866           867         868           868         867           868         867           868         868           869         868           868         868           869         868           868         868           869         868           869         868           868         868           869         881           880         882           883         884           886         887           888         888           889         883           884         883           884         885           889         889           8930         891	8           8	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32</td><td>9 33 9 38 9 38 9 38 9 38 9 38 9 38 9 38</td><td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td><td>1207 1247 1507 1507 1507 1507 1512 1512 1703 1749 164 1.657 165 164 1865 1865 2.36 2.374 2.334 2.374 2.324 2.334 2.374 2.324 2.324 0.0395 0.8284 0.828 0.9395 0.8284 0.828 0.9395 106 108 1097 106 108 1097 106 108 1197 118 108 1003 1227 108 103 1227 118 1342 1543 1325 107 164 106 106 104 118 104 104 118 104 118 104 104 118 104 104 104 104 104 104 104 104 104 104</td><td>1509           1825           PFMairFk-Volt           183           183           211           133           218           1396           218           1396           219           236           2375           238           239           239           239           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           129           1283           1283           1283           1283           1283           1283           1283           1284           1284           1284           1284           1284           1284     <td></td></td></t<>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9 33 9 38 9 38 9 38 9 38 9 38 9 38 9 38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1507 1507 1507 1512 1512 1703 1749 164 1.657 165 164 1865 1865 2.36 2.374 2.334 2.374 2.324 2.334 2.374 2.324 2.324 0.0395 0.8284 0.828 0.9395 0.8284 0.828 0.9395 106 108 1097 106 108 1097 106 108 1197 118 108 1003 1227 108 103 1227 118 1342 1543 1325 107 164 106 106 104 118 104 104 118 104 118 104 104 118 104 104 104 104 104 104 104 104 104 104	1509           1825           PFMairFk-Volt           183           183           211           133           218           1396           218           1396           219           236           2375           238           239           239           239           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           3529           129           1283           1283           1283           1283           1283           1283           1283           1284           1284           1284           1284           1284           1284 <td></td>	
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848         849           849         850           850         851           852         853           855         856           857         856           857         856           857         866           861         862           862         863           866         867           866         867           866         867           868         870           871         877           877         878           878         880           881         882           882         884           885         884           885         889           889         889           891         892           8931         8932	8           8	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 50 FFFrequency.MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9 33 9 38 9 38 9 38 9 38 9 38 9 38 9 38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1507 1507 1507 1517 1517 1517 151	1509 1825 FIFMatrik-Volt. 183 1825 FIFMatrik-Volt. 183 218 1896 218 1996 218 238 238 239 238 239 238 249 248 3431 239 28 3529 228 3529 228 3529 228 3529 228 3529 228 3529 228 128 1004 101 118 1018 1017 1018 1017 1018 1017 102 1283 128 128 128 128 128 128 128 128 128 128	
848         849           849         849           850         850           851         852           853         854           855         855           856         857           858         856           857         858           856         857           858         866           861         862           864         866           867         868           868         867           870         873           874         873           877         878           878         879           881         882           884         885           884         885           886         889           887         888           889         891           893         894           893         894	8           8	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32</td><td>9 33 9 38 9 38 9 38 9 38 9 38 9 38 9 38</td><td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td><td>1207 1247 1507 1507 1507 1507 1517 1507 1512 1703 1743 164 1767 165 185 186 186 186 186 2.364 2.374 2.334 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 106 106 106 106 106 106 106 106 106 106</td><td>1509           1825           PFMairFk-Volt           183           183           218           1396           218           1398           218           1398           219           236           2556           2856           2856           2824           3431           3529           3239           129           1004           1101           118           1075           0.9577           1283           1283           1283           1283           1283           1283           1283           1283           1283           1283           1284           1285           1284           1285           1284           1284           1284           1284           1284           1284           1284           1284           1284           1486</td><td></td></t<>	50 50 50 FFFrequency.MH2 50 50 50 50 50 50 50 50 50 50 50 50 50	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9 33 9 38 9 38 9 38 9 38 9 38 9 38 9 38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1507 1507 1507 1517 1507 1512 1703 1743 164 1767 165 185 186 186 186 186 2.364 2.374 2.334 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 2.374 106 106 106 106 106 106 106 106 106 106	1509           1825           PFMairFk-Volt           183           183           218           1396           218           1398           218           1398           219           236           2556           2856           2856           2824           3431           3529           3239           129           1004           1101           118           1075           0.9577           1283           1283           1283           1283           1283           1283           1283           1283           1283           1283           1284           1285           1284           1285           1284           1284           1284           1284           1284           1284           1284           1284           1284           1486	
948 849 850 850 851 851 852 852 853 855 855 855 855 855 855 855 855 866 865 866 866	8 8 7 argetLocation 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FiFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32</td><td>9.38 9.38 9.38 9.38 9.38 9.39 9.39 9.39</td><td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td><td>1207 1247 15507 15507 1763 17703 17703 17703 1844 17857 1355 1355 1355 1355 2354 2334 2334 2334 2334 2334 2334 2</td><td>1509           1825           FFMarFx-Volt           183           183           183           183           183           183           183           183           214           205           286           275           286           275           286           275           286           275           286           275           286           275           286           275           287           328           3529           281           1291           1004           1010           1010           1010           1023           1223           1243           1249           1249           1249           1249           1447           1526           1294           1447           1526           1294           1447</td><td></td></t<>	50 50 50 FiFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9.38 9.38 9.38 9.38 9.38 9.39 9.39 9.39	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 15507 15507 1763 17703 17703 17703 1844 17857 1355 1355 1355 1355 2354 2334 2334 2334 2334 2334 2334 2	1509           1825           FFMarFx-Volt           183           183           183           183           183           183           183           183           214           205           286           275           286           275           286           275           286           275           286           275           286           275           286           275           287           328           3529           281           1291           1004           1010           1010           1010           1023           1223           1243           1249           1249           1249           1249           1447           1526           1294           1447           1526           1294           1447	
848         849           849         850           850         851           852         853           855         855           855         856           857         856           857         856           857         856           857         856           858         859           864         863           864         866           867         868           868         869           873         874           877         877           877         876           877         880           881         882           882         882           882         883           884         885           886         889           889         891           892         893           894         895           894         895           894         895           895         896	8           8	LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.1 LP2052.2 LP2052	50 50 FIFFrequency.MHz 50 50 50 50 50 50 50 50 50 50	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9 33 9 38 9 38 9 38 9 38 9 38 9 38 9 38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 1507 1507 1507 1507 1512 1512 1703 1749 164 1.767 165 186 1865 2.36 2.374 2.334 2.334 2.334 2.334 2.334 2.334 2.334 2.324 1006 0.8298 0.9095 0.9294 0.8419 0.8698 0.9324 0.8419 0.869 106 1068 1068 1068 1069 1068 1069 1068 1069 1068 1069 1068 1069 1068 1069 1068 1069 1069 106 1068 1197 106 1068 1069 1069 1069 1069 1069 1069 1069 1069	1509 1825 FIFMatrFk-Volt 183 218 183 218 218 218 218 218 218 238 219 238 238 239 238 239 239 239 239 239 239 239 239 239 239	
948           949           849           850           951           952           853           854           855           855           856           857           858           857           858           857           858           857           858           857           858           861           862           863           864           865           867           868           867           868           867           872           873           874           875           877           878           877           878           877           878           877           878           878           883           883           884           886           887           891      892      893	8 8 7 argetLocation 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LP2052.1           LP2052.2           LP2052.2 <t< td=""><td>50 50 50 FiFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50</td><td>9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32</td><td>9.38 9.38 9.38 9.38 9.38 9.39 9.39 9.39</td><td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td><td>1207 1247 15507 15507 1763 17703 17703 17703 1844 17857 1355 1355 1355 1355 2354 2334 2334 2334 2334 2334 2334 2</td><td>1509           1825           FFMarFx-Volt           183           183           183           183           183           183           183           183           214           205           286           275           286           275           286           275           286           275           286           275           286           275           286           275           287           328           3529           281           1291           1004           1010           1010           1010           1023           1223           1243           1249           1249           1249           1249           1447           1526           1294           1447           1526           1294           1447</td><td></td></t<>	50 50 50 FiFFrequencyMHz 50 50 50 50 50 50 50 50 50 50 50 50 50	9 32 9 32 9 32 9 32 9 32 9 32 9 32 9 32	9.38 9.38 9.38 9.38 9.38 9.39 9.39 9.39	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1207 1247 15507 15507 1763 17703 17703 17703 1844 17857 1355 1355 1355 1355 2354 2334 2334 2334 2334 2334 2334 2	1509           1825           FFMarFx-Volt           183           183           183           183           183           183           183           183           214           205           286           275           286           275           286           275           286           275           286           275           286           275           286           275           287           328           3529           281           1291           1004           1010           1010           1010           1023           1223           1243           1249           1249           1249           1249           1447           1526           1294           1447           1526           1294           1447	

901	8	LP2052-2	50	9.32	9,38	0.06	0.8031	RFMaxPk-Volt 0.9716	100
902	8	LP2052-2 LP2052-2	50	9.32	9.38	0.06	1.092	1.321	+
903	8	LP2052-2	50	9.32	9.38	0.06	1.18	1.428	+
904	8	LP2052-2	50	9.32	9.38	0.06	1.082	1.31	
905	8	LP2052-2	50	9.32	9.38	0.06	1.381	1.671	
906	8	LP2052-2	50	9.32	9.38	0.06	1.607	1.946	
907	8	LP2052-2	50	9.32	9.38	0.06	1.875	2.269	
908	8	LP2052-2	50	9.32	9.38	0.06	1.871	2.263	(
909	8	LP2052-2	50	9.32	9.38	0.06	2.084	2.522	
910	8	LP2052-2	50	9.32	9.38	0.06	2.027	2.453	- 1
911	8	LP2052-2	50	9.32	9.38	0.06	2.073	2.509	-
912	8	LP2052-2	50	9.32	9.38	0.06	2.472	2.992	1
913	8	LP2052-2	50	9.32	9.38	0.06	2.964	3.587	-
914 915	9	LP2052-1 LP2052-1	50 50	9.42 9.42	9.79 9.79	0.37	2.58 2.803	3.122 3.39	+
915	9	LP2052-1 LP2052-1	50	9.42	9.79	0.37	2.803	3.39	+
917	9	LP2052-1	50	9.42	9.79	0.37	2.893	3.501	+
918	9	LP2052-1	50	9.42	9.79	0.37	2.982	3.608	+
919	9	LP2052-1	50	9.42	9.79	0.37	3.014	3.644	1
920	9	LP2052-1	50	9.42	9.79	0.37	3.122	3.776	
921	9	LP2052-1	50	9.42	9.79	0.37	3.173	3.84	
922	9	LP2052-1	50	9.42	9.79	0.37	3.894	4.711	
923	9	LP2052-1	50	9.42	9.79	0.37	3.49	4.221	
924	9	LP2052-1	50	9.42	9.79	0.37	3.537	4.276	
925	9	LP2052-1	50	9.42	9.79	0.37	3.693	4.468	
926	9	LP2052-1	50	9.42	9.79	0.37	3.748	4.533	
927	9	LP2052-1	50	9.42	9.79	0.37	3.84	4.645	
928	9	LP2052-1	50	9.42	9.79	0.37	3.978	4.814	
929	9	LP2052-1	50	9.42	9.79	0.37	4.005	4.847	_
930	9	LP2052-1	50	9.42	9.79	0.37	4.13	4.994 E 101	-
931	9	LP2052-1	50 50	9.42	9.79	0.37	4.244	5.131	
932 933	9	LP2052-1 LP2052-1	50	9.42 9.42	9.79	0.37	4.24 4.218	5.13 5.105	+
933	9	LP2052-1 LP2052-1	50	9.42	9.79	0.37	4.218	5.105	+
934	9	LP2052-1 LP2052-1	50	9.42	9.79	0.37	4.368	5.407	+
936	9	LP2052-1	50	9.42	9,79	0.37	4.148	5.02	+
937	9	LP2052-1	50	9.42	9.79	0.37	4.32	5.224	+
938	9	LP2052-1	50	9.42	9.79	0.37	3.402	4.112	+
939	9	LP2052-1	50	9.42	9.79	0.37	3.523	4.263	1
940	9	LP2052-1	50	9.42	9.79	0.37	2.989	3.618	
941	9	LP2052-2	50	9.42	9.79	0.37	3.378	4.086	
942	9	LP2052-2	50	9.42	9.79	0.37	2.901	3.509	
943	9	LP2052-2	50	9.42	9.79	0.37	2.373	2.872	
944	9	LP2052-2	50	9.42	9.79	0.37	1.912	2.314	
945	9	LP2052-2	50	9.42	9.79	0.37	1.964	2.377	
946	9	LP2052-2	50	9.42	9.79	0.37	2.005	2.427	-
947	9	LP2052-2	50	9.42	9.79	0.37	2.055	2.486	_
948	9	LP2052-2	50	9.42	9.79	0.37	2.21	2.675	
	9	LP2052.2	50	9.42	9.79		2 212	2 799	
949 950	9	LP2052-2	50 50	9.42 9.42	9.79 9.79	0.37	2.313 2.458	2.799	
950	9	LP2052-2	50	9.42	9.79	0.37	2.458	2.974	
950 iotNumber	9 TargetLocation	LP2052-2 TestDevice	50 RFFrequency-MHz	9.42 RFStartTime-us	9.79 RFStopTime-us	0.37 0.37 RFTotalDuration-us	2.458 RFAvgPk-Volts	2.974 RFMaxPk-Volt	
950	9	LP2052-2	50	9.42	9.79	0.37	2.458	2.974	
950 iotNumber 951	9 TargetLocation 9	LP2052-2 TestDevice LP2052-2	50 RFFrequency-MHz 50	9.42 RFStartTime-us 9.42	9.79 RFStopTime-us 9.79	0.37 0.37 RFTotalDuration-us 0.37	2.458 RFAvgPk-Volts 2.592	2.974 RFMaxPk-Volt 3.136	
950 iotNumber 951 952 953 954	9 TargetLocation 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 BFFrequency-MHz 50 50 50 50 50	9.42 RFStartTime-us 9.42 9.42 9.42 9.42	9.79 RFStopTime-us 9.79 9.79 9.79 9.79	0.37 0.37 RFTotalDuration-us 0.37 0.37 0.37 0.37	2.458 RFAvgPk-Volts 2.592 2.67 2.782 2.877	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.483	is Up
950 iotNumber 951 952 953 954 955	9 TargetLocation 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 RFFrequency-MHz 50 50 50 50 50	9.42 RFStartTime-us 9.42 9.42 9.42 9.42 9.42 9.42	9.79 RFStopTime-us 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 RFTotalDuration-us 0.37 0.37 0.37 0.37 0.37	2.458 RFAvgPk-Volts 2.592 2.67 2.782 2.877 2.534	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067	
950 iotNumber 951 952 953 955 955 956	9 TargetLocation 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 BFFrequency-MHz 50 50 50 50 50 50 50	9.42 PFStartTime-us 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 RFStopTime-us 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 RFTotalDuration-us 0.37 0.37 0.37 0.37 0.37 0.37	2.458 PFAvgPk-Volts 2.592 2.67 2.782 2.877 2.534 2.117	2.974 PFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067 2.56	
950 otNumber 951 952 953 954 955 956 956 957	9 TargetLocation 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 RFFrequency-MHz 50 50 50 50 50 50 50 50	9.42 PFStartTime-us 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 RFStopTime-us 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 RFTotalDuration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.458 RFAvgPk-Volts 2.592 2.67 2.782 2.877 2.534 2.117 1.726	2.974 PFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067 2.56 2.086	
950 otNumber 951 952 953 954 955 956 956 957 958	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 FFFrequency-MHz 50 50 50 50 50 50 50 50	9.42 PFStartTime-us 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 RFStopTime-us 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.458 RFAvgPk-Volts 2.592 2.67 2.782 2.877 2.534 2.117 1.726 1.826	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067 2.56 2.086 2.21	
950 otNumber 951 952 953 954 955 956 956 957 958 959	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50	9.42 <u>BFStartTime-us</u> 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 RFStopTime-us 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2,458 PFAvgPk-Volts 2,592 2,67 2,782 2,877 2,534 2,117 1,726 1,826 1,893	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067 2.56 2.086 2.21 2.291	
950 otNumber 951 952 953 955 955 956 957 958 958 959 960	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 FIFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50	9.42 RFStartTime-us 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 RFStopTime-us 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 RFTotalDuration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2,458 RFAvgPk-Volts 2,592 2,67 2,572 2,574 2,177 1,726 1,826 1,893 1,531	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067 2.56 2.086 2.21 2.291 1.851	
950 otNumber 951 952 953 955 955 956 957 958 959 959 959 959 960 961	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 FIFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	9.42 RFStartTime-us 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42 9.42	9.79 FIFStopTime-us 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79 9.79	0.37 0.37 PFT otalDuration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.458 RFAvgPk-Volts 2.592 2.67 2.782 2.877 2.534 2.117 1.726 1.826 1.893 1.531 1.583	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.463 3.067 2.56 2.086 2.21 2.291 1.851 1.916	
950 otNumber 951 952 953 954 955 955 955 955 958 959 959 959 959 959	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 RFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	9.42 RFStartTime-us 9.42	9.79 PFStopTime-us 9.79	0.37 0.37 PFTotalDuration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.458 PFAvgPk-Volts 2.592 2.67 2.782 2.877 2.534 2.117 1.726 1.826 1.893 1.531 1.583 1.625	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067 2.56 2.26 2.21 2.291 1.851 1.916 1.967	
950 otNumber 951 952 953 954 955 955 955 956 957 958 959 959 960 961 962 963	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 RFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	3.42 BFStartTime-us 9.42 9.	9.79 PFFStopTime-us 9.79	0.37 0.37 PFTotalDuration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.458 RFAugPk-Volts 2.592 2.67 2.782 2.877 2.534 2.117 1.726 1.826 1.893 1.531 1.583 1.655	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067 2.56 2.086 2.21 2.21 1.851 1.916 1.996	
950 iotNumber 951 952 953 955 955 955 955 955 955 955 955 959 959 961 962 963 964	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	3,42 RFS4rTime-us 9,42 9,42 9,42 9,42 9,42 9,42 9,42 9,42	3.73           RF Stop Time-us           9.73           3.73           9.73	0.37 0.37 PFT otalDuration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.458 RFAugRkVolts 2.592 2.67 2.782 2.877 2.534 2.117 1.826 1.833 1.583 1.583 1.583 1.625 1.65 1.72	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.483 3.067 2.56 2.086 2.21 2.21 1.851 1.916 1.967 1.996 2.082	
950 sotNumber 951 952 953 955 955 956 956 958 959 959 959 959 959 959 959	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 PFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	3,42 RFStartTime-us 9,42 3,42 3,42 3,42 9,42	9.79 PFFStopTime-us 9.79	0.37 0.37 PFTotalDuration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.458 PFAugPk.Volts 2.592 2.67 2.782 2.877 2.534 2.117 1.726 1.893 1.531 1.531 1.533 1.625 1.65 1.65 1.72 1.735	2.974 RFMayPk-Volt 3.136 3.228 3.366 2.28 2.086 2.21 2.291 1.851 1.916 1.967 1.936 2.082 2.038	
950 otNumber 951 952 953 955 955 955 955 956 957 958 959 959 960 961 962 963 964 965 966	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50 50 50 50	3.42 RF5tarTime-us 3.42 3.42 3.42 3.42 3.42 3.42 3.42 3.42	9.79           RF Stop Time-us           9.79	0.37 0.37 PFTotalDurus 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.458 PF-AugPk-Volts 2.592 2.67 2.782 2.877 2.534 2.117 1.726 1.826 1.833 1.583 1.583 1.625 1.72 1.725 1.779	2.974 RFMaxPk-Volt 3.136 3.228 3.366 3.463 3.067 2.56 2.066 2.291 1.861 1.967 1.996 2.092 2.098 2.098 2.153	
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350           octNumber           351           352           353           354           355           356           357           358           359           366           361           362           363           364           365           364           365           366           367           368           367           368           367           368           367           368           367           368           367           368           367           368           367           368           367           368           370           371           374           375	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           PFStatTime-us           942      >942           942 <t< td=""><td>9.73 PFSbpTime-us 9.73 9.65 9.605 9.</td><td>0.37 0.37 PFTotalDuration-us 0.37 0.38 0.485 0.485 0.685</td><td>2493 PFAugPk-Volts 2592 2692 2697 2782 2877 2877 2877 2877 2877 2877 1826 1893 1597 2.778 2.295 2.2931 2.2931 2.893 2.893 2.894 2.895 2.995 2.</td><td>2374 FIFMasPk.Volt FIFMasPk.Volt 3.136 3.228 3.386 2.086 2.251 2.251 1.916 1.956 2.096 2.211 1.916 1.936 2.098 2.153 2.153 2.153 2.153 2.264 2.212 2.231 2.242 2.232 2.255 2.753 2.255 2.753 2.255 2.753 2.255 2.753 2.755 2.753 2.7555 2.7555 2.7555 2.7555 2.75</td><td></td></t<>	9.73 PFSbpTime-us 9.73 9.65 9.605 9.	0.37 0.37 PFTotalDuration-us 0.37 0.38 0.485 0.485 0.685	2493 PFAugPk-Volts 2592 2692 2697 2782 2877 2877 2877 2877 2877 2877 1826 1893 1597 2.778 2.295 2.2931 2.2931 2.893 2.893 2.894 2.895 2.995 2.	2374 FIFMasPk.Volt FIFMasPk.Volt 3.136 3.228 3.386 2.086 2.251 2.251 1.916 1.956 2.096 2.211 1.916 1.936 2.098 2.153 2.153 2.153 2.153 2.264 2.212 2.231 2.242 2.232 2.255 2.753 2.255 2.753 2.255 2.753 2.255 2.753 2.755 2.753 2.7555 2.7555 2.7555 2.7555 2.75	
950           cxtNumber           951           952           953           954           955           956           957           958           959           960           961           962           963           964           965           966           967           968           968           969           970           971           972           973           974           975           976	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           TestDevice           LP2052.2           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942 PFStatTime-us 942 942 942 942 942 942 942 942 942 942	9.73 FFS.opTime-us 9.73 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.65 9.605 9.755 9.7555 9.7555 9.7555555 9.75555555555555555555555555555555555	0.37 0.37 PFT ot al Duration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.453 PF AugPk.Volts 2.552 2.67 2.57 2.57 2.57 2.57 2.57 2.57 2.57 2.5	2,374 FFMasPk-Volk FFMasPk-Volk 3,136 3,286 3,386 3,483 3,067 2,281 2,291 1,851 1,956 2,092 2,092 2,093 2,155 2,1956 2,092 2,092 2,093 2,1956 2,1956 2,294 2,294 2,295 2,295 2,1956 2,295 2,295 2,1956 2,295 2,29	
950 cotNumber 951 952 953 955 955 955 955 955 955 955	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           TestDevice           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           PFStatTime-us           942      942        942 <td>9.73 PFSbpTime us 9.73 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.65 9.605 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.7</td> <td>0.37 0.37 PFTotalDurus 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td> <td>2493 PF AugPL Volts 2592 267 2782 2877 2877 2877 2177 1728 1826 1833 1625 1531 1583 1625 1735 1773 1778 1878 1855 1855 1853 1855 1855 1853 1855 1855 1853 1855 1853 1855 1853 1855 1853 2877 288 3.38</td> <td>2374 FIFMasPA: Volt FIFMasPA: Volt 3.136 3.228 3.326 3.326 2.256 2.256 2.21 2.251 1.916 1.956 2.062 2.093 2.094 2.094 2.095</td> <td></td>	9.73 PFSbpTime us 9.73 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.65 9.605 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.7	0.37 0.37 PFTotalDurus 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2493 PF AugPL Volts 2592 267 2782 2877 2877 2877 2177 1728 1826 1833 1625 1531 1583 1625 1735 1773 1778 1878 1855 1855 1853 1855 1855 1853 1855 1855 1853 1855 1853 1855 1853 1855 1853 2877 288 3.38	2374 FIFMasPA: Volt FIFMasPA: Volt 3.136 3.228 3.326 3.326 2.256 2.256 2.21 2.251 1.916 1.956 2.062 2.093 2.094 2.094 2.095	
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950 ootNumeer 951 952 953 955 955 955 955 956 957 956 957 962 963 963 963 964 963 963 964 963 964 965 967 963 964 965 967 970 977 977 977 977 977 977 977 977 97	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           PFStatTime-us           942      >942           942 <t< td=""><td>9.73 FFS.ppTm+us 9.73 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.60 9.605 9.6</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.453 PF AugPk.Volts 2.552 2.57 2.57 2.57 2.57 2.57 2.57 2.5</td><td>2,374 FFMasPk-Volt FFMasPk-Volt FFMasPk-Volt 3,336 3,386 3,483 3,067 2,281 2,291 1,851 1,956 2,092 2,098 2,215 2,098 2,</td><td></td></t<>	9.73 FFS.ppTm+us 9.73 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.60 9.605 9.6	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.453 PF AugPk.Volts 2.552 2.57 2.57 2.57 2.57 2.57 2.57 2.5	2,374 FFMasPk-Volt FFMasPk-Volt FFMasPk-Volt 3,336 3,386 3,483 3,067 2,281 2,291 1,851 1,956 2,092 2,098 2,215 2,098 2,	
950 oct/Wumber 361 362 953 954 955 955 955 955 955 955 955 955 955	9           TargetLocation           9           10	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           942	9.73 PFSbpTime-us 9.73 9.75 9.60 9.60 9.605 9.60	0.37 0.37 PFTotalDuration-us 0.37 0.385 0.185 0.	2493 PF AugPk.Volts 2592 2692 2697 2792 2792 2792 2797 2797 2797 2797 2797 1706 1803 1597 2795 2.275 2.2991 2.292 2.293 2.293 2.293 2.293 2.292 2.292 2.292 2.293 2.293 2.293 2.293 2.293 2.293 2.292 2.292 2.293	2.97k. PFMasPk.Volk PFMasPk.Volk 3.136 3.228 3.328 3.328 3.328 2.256 2.256 2.256 2.256 2.256 2.256 2.256 2.256 2.251 1.916 1.936 2.939 2.153 2.939 2.153 2.092 2.093 2.092 2.093 2.093 2.092 2.093 2.092 2.093 2.092 2.093 2.092 2.093 2.092 2.093 2.092 2.093 2.092 2.093 2.092 2.093 2.092 2.093 2.092 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.094 2.093 2.097 2	
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950         00t/lumer         351           952         953         954           955         955         956           957         956         957           956         957         969           967         963         964           965         966         967           964         965         966           963         969         970           974         977         977           977         977         977           977         977         980           981         983         984           985         983         984           986         983         984	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           PFStatTime-us           942      >942           942 <t< td=""><td>9.73 FFSopTime-us 9.73 9.75 9.605 9.6</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.453 PF AugPk.Volts 2.552 2.57 2.57 2.57 2.57 2.57 2.57 2.5</td><td>2,374 FFMasPk-Volt FFMasPk-Volt FFMasPk-Volt 3,136 3,286 3,386 3,483 3,067 2,092 2,093 3,097 3,</td><td></td></t<>	9.73 FFSopTime-us 9.73 9.75 9.605 9.6	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.453 PF AugPk.Volts 2.552 2.57 2.57 2.57 2.57 2.57 2.57 2.5	2,374 FFMasPk-Volt FFMasPk-Volt FFMasPk-Volt 3,136 3,286 3,386 3,483 3,067 2,092 2,093 3,097 3,	
950 oct/Womber 361 362 953 955 955 955 955 955 955 955 955 955	9           TargetLocation           9           10	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           942      >942      >942 <td>9.73 PFSbpTime-us 9.73 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.605</td> <td>0.37 0.37 PFTotalDaration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td> <td>2.459 PF AugPk.Volts 2.552 2.67 2.782 2.877 2.782 2.877 2.787 2.877 2.787 2.877 1.726 1.826 1.833 1.532 2.526 2.288 2.288 2.282 2.288 2.282 2.282 2.282 2.227 2</td> <td>2.974. PFMasPk.Volt PFMasPk.Volt PFMasPk.Volt 3.136 2.86 2.28 2.28 2.28 2.28 2.28 2.28 2.28 2.28 1.916 1.96 2.082 2.084 3.084 3.084 3.084 3.084 3.078 3.010 3.001 2.835 3.001 2.835 3.001 2.835 3.001 2.835 2.835 2.835 2.835 2.85</td> <td></td>	9.73 PFSbpTime-us 9.73 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.75 9.605	0.37 0.37 PFTotalDaration-us 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.459 PF AugPk.Volts 2.552 2.67 2.782 2.877 2.782 2.877 2.787 2.877 2.787 2.877 1.726 1.826 1.833 1.532 2.526 2.288 2.288 2.282 2.288 2.282 2.282 2.282 2.227 2	2.974. PFMasPk.Volt PFMasPk.Volt PFMasPk.Volt 3.136 2.86 2.28 2.28 2.28 2.28 2.28 2.28 2.28 2.28 1.916 1.96 2.082 2.084 3.084 3.084 3.084 3.084 3.078 3.010 3.001 2.835 3.001 2.835 3.001 2.835 3.001 2.835 2.835 2.835 2.835 2.85	
950 oct/lumer 951 952 953 954 955 955 956 955 956 956 956 967 963 964 965 965 966 965 966 966 967 968 965 966 967 977 977 977 977 977 977 977 977	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942 PFStatTime-us 942 942 942 942 942 942 942 942	9.73 PFSbpTime-us 9.73 9.75 9.605 9.6	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.493 PF AugPk.Volts 2.592 2.67 2.87 2.87 2.87 2.87 2.87 2.87 2.87 2.8	2374 FFMasPk-Volt FFMasPk-Volt FFMasPk-Volt 3.136 3.286 3.483 3.056 2.281 2.256 2.241 2.231 1.856 2.082 2.093 2.255 2.092 2.092 2.092 2.092 2.092 2.092 2.093 2.255 2.231 2.255 2.231 2.255 2.255 2.255 2.092 2.092 2.092 2.092 2.093 2.255 2.255 2.255 2.255 2.255 2.255 2.255 2.092 2.092 2.092 2.092 2.092 2.093 2.255 2.255 2.395 2.395 2.395 3.864 4.09 3.010 3.010 3.010 3.010 3.010 3.010 3.025 2.252 2.252 2.255 2.283 3.097 3.007 3.007 3.010 3.010 3.010 3.010 3.010 3.010 3.025 2.252 2.293 3.010 3.010 3.010 3.010 3.025 2.252 2.252 2.255 2.284 3.007 3.010 3.010 3.010 3.010 3.025 2.242 2.224 2.224 2.233 3.010 3.010 3.010 3.010 3.025 2.242 2.224 2.224 2.224 2.283 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.010 3.025 3.055 3.055 3.055 3.055 3.055 3.055 3.055 3.055 3.055 3.0555 3.0555 3.0555 3.0555 3.0555 3.05555 3.05555 3.05555	
950         000000000000000000000000000000000000	9           TargetLocation           9	LP2052.2           TestDevice           P2052.2           LP2052.2           LP2052.1           <	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           PFStatTime-us           942      >942           942 <t< td=""><td>9.73 PFSbpTime.us 9.73 9.75 9.65 9.60</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2493 PF AugPL.Vots 2592 267 2782 2877 2877 2877 2877 2177 1728 1828 1828 1833 1828 1833 1828 1833 1828 1833 1828 1833 1828 1833 1825 1775 1775 1775 1775 1775 1775 1775 1775 1877 2885 3.38 2885 3.38 2825 2825 2827 2855 3.38 2825 2855 3.121 2.525 2.227 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.</td><td>2.974. PFMasPA-Volt PFMasPA-Volt PFMasPA-Volt 3.136 3.228 3.286 3.286 2.28 2.28 2.256 2.21 2.251 1.916 1.926 2.242 2.291 1.916 1.936 2.092 2.093 2.0957 2.441 2.441 2.044</td><td></td></t<>	9.73 PFSbpTime.us 9.73 9.75 9.65 9.60	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2493 PF AugPL.Vots 2592 267 2782 2877 2877 2877 2877 2177 1728 1828 1828 1833 1828 1833 1828 1833 1828 1833 1828 1833 1828 1833 1825 1775 1775 1775 1775 1775 1775 1775 1775 1877 2885 3.38 2885 3.38 2825 2825 2827 2855 3.38 2825 2855 3.121 2.525 2.227 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.247 2.	2.974. PFMasPA-Volt PFMasPA-Volt PFMasPA-Volt 3.136 3.228 3.286 3.286 2.28 2.28 2.256 2.21 2.251 1.916 1.926 2.242 2.291 1.916 1.936 2.092 2.093 2.0957 2.441 2.441 2.044	
950         000Mumber           000Mumber         861           952         953           954         955           955         956           959         969           960         963           964         963           965         966           967         968           969         967           971         972           977         977           977         977           977         977           978         989           981         982           983         984           984         985           985         987           986         987           986         987           986         987           986         987           986         987           987         988           987         988	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942 PFStatTime-us 942 944 942 942 942 942 942 942 942 942	9.73 PFSbpTime-us 9.73 9.75 9.605 9.6	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.459 PF AugPk.Volts 2.592 2.67 2.57 2.57 2.57 2.57 2.57 2.57 2.57 2.57 2.57 1.725 1.57 1.55 1.55 1.55 1.55 1.55 1.725 1.775 1.775 1.775 1.775 1.775 1.775 1.55 1.72 2.17 2.55 1.55 2.55 1.55 2.55 1.55 2.55	2374 FFMasPk.Volt FFMasPk.Volt FFMasPk.Volt 3.136 2.28 3.386 2.28 2.28 2.28 2.28 2.28 2.28 2.26 2.21 2.291 1.916 1.916 1.916 2.092 2.093 2.092 2.093 2.092 2.093 2.094 3.097 3.001 3.007 3.001 3.007 3.001 3.007 3.001 2.093 2.094 2.093 2.093 2.093 2.094 2.093 2.093 2.094	
950         000000000000000000000000000000000000	9           TargetLocation           9	LP2052.2           TestDevice           LP2052.2           LP2052.1           LP2052.2           LP2052.2           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           942           PFStatTime us           942      >942           942 <t< td=""><td>9.73 9FSbpTime us 9FSbpTime us 973 973 9.75 9.605 9.6</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.459 PF AugPL Volts 2.592 2.67 2.67 2.87 2.87 2.87 2.87 2.87 2.87 2.87 1.826 1.826 1.826 1.825 1.625 1.65 1.53 2.23 2.23 2.25 2.25 1.65 2.25 2.25 1.65 1.65 2.25 2.25 1.65 1.65 2.25 2.25 2.25 1.65 1.65 1.65 1.97 2.25 2.25 1.65 1.65 1.97 2.25 2.25 1.65 1.65 1.65 1.97 2.25 2.25 1.65 1.65 1.65 1.97 2.25 2.25 1.65 1.65 1.65 1.65 1.97 2.25 2.25 1.65 1</td><td>2.974. PFFMasPF-Volt PFFMasPF-Volt PFFMasPF-Volt 3.136 3.228 3.286 3.286 2.086 2.256 2.261 2.291 1.851 1.986 2.092 2.291 1.851 1.986 2.092 2.093 2.094 2.093 2.094 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.094 2.095 2.094 2.095</td><td></td></t<>	9.73 9FSbpTime us 9FSbpTime us 973 973 9.75 9.605 9.6	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.459 PF AugPL Volts 2.592 2.67 2.67 2.87 2.87 2.87 2.87 2.87 2.87 2.87 1.826 1.826 1.826 1.825 1.625 1.65 1.53 2.23 2.23 2.25 2.25 1.65 2.25 2.25 1.65 1.65 2.25 2.25 1.65 1.65 2.25 2.25 2.25 1.65 1.65 1.65 1.97 2.25 2.25 1.65 1.65 1.97 2.25 2.25 1.65 1.65 1.65 1.97 2.25 2.25 1.65 1.65 1.65 1.97 2.25 2.25 1.65 1.65 1.65 1.65 1.97 2.25 2.25 1.65 1	2.974. PFFMasPF-Volt PFFMasPF-Volt PFFMasPF-Volt 3.136 3.228 3.286 3.286 2.086 2.256 2.261 2.291 1.851 1.986 2.092 2.291 1.851 1.986 2.092 2.093 2.094 2.093 2.094 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.093 2.094 2.095 2.094 2.095	
950         000Mumber         361           952         953         955           955         955         955           955         955         955           955         955         955           956         953         956           961         962         964           962         965         965           966         967         966           972         973         974           975         975         979           976         977         978           979         978         980           981         982         983           984         985         986           987         988         989           989         989         989           989         989         989	9           TargetLocation           9           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10	LP2052.2           TestDevice           LP2052.2           LP2052.1           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           942      >942      >942 <td>9.73 PFSbpTime-us 9.73 9.75 9.60</td> <td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td> <td>2493 PFAugPk.Volts 2592 2592 2597 2597 2597 2597 2597 2597 2597 2597 2597 2597 2597 2597 1591 1593 1595 159</td> <td>2.974. FFMasPk.Volt FFMasPk.Volt FFMasPk.Volt 3.136 2.86 2.986 2.281 1.916 1.926 2.291 1.916 1.936 2.291 1.916 1.936 2.092 2.293 2.295 2.294 2.293 2.293 2.293 2.293 2.295 2.293 2.293 2.295 2.294 2.293 2.293 2.293 2.295 2.294 2.293 2.293 2.295 2.205 2.</td> <td></td>	9.73 PFSbpTime-us 9.73 9.75 9.60	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2493 PFAugPk.Volts 2592 2592 2597 2597 2597 2597 2597 2597 2597 2597 2597 2597 2597 2597 1591 1593 1595 159	2.974. FFMasPk.Volt FFMasPk.Volt FFMasPk.Volt 3.136 2.86 2.986 2.281 1.916 1.926 2.291 1.916 1.936 2.291 1.916 1.936 2.092 2.293 2.295 2.294 2.293 2.293 2.293 2.293 2.295 2.293 2.293 2.295 2.294 2.293 2.293 2.293 2.295 2.294 2.293 2.293 2.295 2.205 2.	
950         000Mumber           000Mumber         861           952         953           954         955           955         956           957         956           959         960           963         963           964         963           965         963           964         965           967         968           967         977           977         977           977         977           977         977           978         980           980         983           983         986           989         987           988         989           989         989           989         989           989         989           989         989           989         989           989         989           989         989           989         989	9 TargetLocation 9 9 9 9 9 9 9 9 9 9 9 9 9	LP2052.2           TestDevice           LP2052.2           LP2052.1           LP2052.2           LP2052.1           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           PFStatTime-us           942      >942      >942      >942	9.73 PFSbpTime-us 9.73 9.75 9.605 9	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.493 PF AugPk.Volts 2.592 2.87 2.87 2.87 2.87 2.87 2.87 2.87 2.8	2,374 FFMasPk-Volt FFMasPk-Volt FFMasPk-Volt 3,136 3,286 3,386 3,483 3,067 2,281 1,816 1,956 2,281 1,816 1,956 2,098 2,098 2,092 2,093 2,153 2,153 2,155 2,166 2,293 2,153 2,166 2,293 2,153 2,153 2,155 2,255 2,255 2,155 2,155 2,255 2,255 2,255 2,255 2,155 2,255 2,355 2,355 2,355 2,355 2,355 2,255 2,	
950         000Mberty           861         862           963         965           955         956           956         957           956         957           956         956           957         956           956         957           956         959           962         965           963         963           964         966           963         967           968         969           969         967           972         977           977         978           977         978           980         981           982         983           986         986           987         980           981         986           986         987           988         986           989         991           982         933           984         984	9           TargetLocation           9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           942      >942      >942 <td>9.73 9.73 9.75 9.73 9.75 9.75 9.605</td> <td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td> <td>2.459 PF AugPk.Volts 2.592 2.67 2.782 2.877 2.782 2.877 2.787 2.877 2.787 1.726 1.531 1.583 1.583 1.583 1.583 1.655 1.725 1.775 1.775 1.775 1.875 1</td> <td>2.974. PFMasPk.volt PFMasPk.volt 9FMasPk.volt 3.136 3.288 3.288 3.288 2.28 2.28 2.28 2.28 2.28 2.255 2.21 2.231 1.916 1.966 2.241 2.231 1.916 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.233 2.265 2.242 2.231 2.293 2.265 2.293 2.293 2.265 2.293 2.293 2.265 2.293 2.293 2.293 2.293 3.864 3.864 3.864 3.3664 3.378 3.001 3.301 2.835 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.265 2.242 2.255 2.275 3.406 3.301 3.301 2.555 2.235 2.235 2.235 2.235 2.235 2.242 2.255 2.275 3.406 2.355 4.09 2.355 4.09 2.355 2.247 2.242 2.255 2.275 3.010 2.255 2.275 3.010 2.255 2.242 2.255 2.275 3.010 2.255 2.242 2.255 2.275 3.010 2.255 2.242 2.255 2.276 3.010 2.255 2.275 3.011 2.255 2.275 3.011 2.255 2.275 3.011 2.255 2.275 3.011 2.255 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275 2.275 2.275 2.275 3.011 2.255 2.275 2</td> <td></td>	9.73 9.73 9.75 9.73 9.75 9.75 9.605	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.459 PF AugPk.Volts 2.592 2.67 2.782 2.877 2.782 2.877 2.787 2.877 2.787 1.726 1.531 1.583 1.583 1.583 1.583 1.655 1.725 1.775 1.775 1.775 1.875 1	2.974. PFMasPk.volt PFMasPk.volt 9FMasPk.volt 3.136 3.288 3.288 3.288 2.28 2.28 2.28 2.28 2.28 2.255 2.21 2.231 1.916 1.966 2.241 2.231 1.916 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.233 2.265 2.242 2.231 2.293 2.265 2.293 2.293 2.265 2.293 2.293 2.265 2.293 2.293 2.293 2.293 3.864 3.864 3.864 3.3664 3.378 3.001 3.301 2.835 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.235 2.265 2.242 2.255 2.275 3.406 3.301 3.301 2.555 2.235 2.235 2.235 2.235 2.235 2.242 2.255 2.275 3.406 2.355 4.09 2.355 4.09 2.355 2.247 2.242 2.255 2.275 3.010 2.255 2.275 3.010 2.255 2.242 2.255 2.275 3.010 2.255 2.242 2.255 2.275 3.010 2.255 2.242 2.255 2.276 3.010 2.255 2.275 3.011 2.255 2.275 3.011 2.255 2.275 3.011 2.255 2.275 3.011 2.255 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275 2.275 2.275 2.275 3.011 2.255 2.275 2	
950 oct/Wumber 951 952 953 954 955 955 955 955 955 955 955 955 955	9  TargetLocation 9  TargetLocation 9  9  9  9  9  9  9  9  9  9  9  9  9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942 PFStatTime-us 942 944 942 942 942 942 942 942 942 942	9.73 PFSbpTime-us 9.73 9.75 9.605 9.	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.459 PF AugPk.Volts 2.592 2.67 2.57 2.57 2.57 2.57 2.57 2.57 2.57 1.725 1.583 1.583 1.583 1.583 1.583 1.583 1.555 1.725 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.865 1.855 1	2,374 FFMasPk.Volt FFMasPk.Volt FFMasPk.Volt 3,336 3,483 3,366 2,256 2,261 2,251 1,956 2,062 2,251 1,956 2,092 2,092 2,093 2,153 2,155 2,166 2,293 2,153 2,166 2,293 2,153 2,166 2,293 2,153 2,166 2,293 2,153 2,262 2,293 2,265 2,293 2,255 2,293 2,255 2,293 2,255 2,293 2,255 2,293 2,255 2,293 2,295 2,293 3,366 4,009 2,232 3,366 3,377 3,300 3,	
950         000Mberty           861         862           963         965           955         956           956         957           956         957           956         956           957         956           956         957           956         959           962         965           963         963           964         966           963         967           968         969           969         967           972         977           977         978           977         978           980         981           982         983           986         986           987         980           981         986           986         987           988         986           989         991           982         933           984         984	9           TargetLocation           9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           942      >942      >942 <td>9.73 9.73 9.75 9.73 9.75 9.05 9.605 9.</td> <td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td> <td>2493 PF AugPL Volts 2592 267 267 267 277 277 277 277 1728 1533 1625 1533 1625 1533 1625 1533 1625 1533 1625 1775 1775 1779 1655 1653 1655 1653 1655 1657 1778 177</td> <td>2.974. PFMasPk.volt PFMasPk.volt 9FMasPk.volt 3.136 3.288 3.288 3.288 2.28 2.28 2.28 2.28 2.28 2.255 2.21 2.231 1.916 1.966 2.241 2.231 1.916 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.233 2.265 2.242 2.231 2.293 2.265 2.293 2.293 2.265 2.293 2.293 2.265 2.293 2.293 2.293 2.293 2.293 3.3466 3.3664 3.3664 3.3684 3.3684 3.3684 3.3778 3.001 3.301 2.835 2.255 2.242 2.255 2.255 2.275 3.3466 2.3554 2.242 2.255 2.275 3.301 2.255 2.275 3.011 2.255 2.242 2.257 3.011 2.255 2.242 2.257 3.011 2.255 2.277 3.011 2.255 2.242 2.257 3.011 2.255 2.275 3.011 2.255 2.242 2.257 2.242 2.257 2.242 2.257 2.247 2.257 2.247 2.257 2.275 3.011 2.255 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275</td> <td></td>	9.73 9.73 9.75 9.73 9.75 9.05 9.605 9.	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2493 PF AugPL Volts 2592 267 267 267 277 277 277 277 1728 1533 1625 1533 1625 1533 1625 1533 1625 1533 1625 1775 1775 1779 1655 1653 1655 1653 1655 1657 1778 177	2.974. PFMasPk.volt PFMasPk.volt 9FMasPk.volt 3.136 3.288 3.288 3.288 2.28 2.28 2.28 2.28 2.28 2.255 2.21 2.231 1.916 1.966 2.241 2.231 1.916 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.092 2.233 2.265 2.242 2.231 2.293 2.265 2.293 2.293 2.265 2.293 2.293 2.265 2.293 2.293 2.293 2.293 2.293 3.3466 3.3664 3.3664 3.3684 3.3684 3.3684 3.3778 3.001 3.301 2.835 2.255 2.242 2.255 2.255 2.275 3.3466 2.3554 2.242 2.255 2.275 3.301 2.255 2.275 3.011 2.255 2.242 2.257 3.011 2.255 2.242 2.257 3.011 2.255 2.277 3.011 2.255 2.242 2.257 3.011 2.255 2.275 3.011 2.255 2.242 2.257 2.242 2.257 2.242 2.257 2.247 2.257 2.247 2.257 2.275 3.011 2.255 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275 2.275 3.011 2.255 2.275	
950         000000000000000000000000000000000000	9           TargetLocation           9	LP2052.2           TestDevice           LP2052.2           LP2052.1	50 FFFrequency-MHz 50 50 50 50 50 50 50 50 50 50	942           942           PFStatTime-us           942      >942           942 <t< td=""><td>9.73 PFSbpTime-us 9.73 9.75 9.605 9.</td><td>0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37</td><td>2.459 PF AugPk.Volts 2.592 2.67 2.57 2.57 2.57 2.57 2.57 2.57 2.57 1.725 1.583 1.583 1.583 1.583 1.583 1.583 1.555 1.725 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.865 1.855 1</td><td>2.974. PFFMasPA: Volt PFFMasPA: Volt PFFMasPA: Volt 3.136 3.228 3.3286 3.3286 2.287 2.556 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.26 2.21 2.256 2.20 2.255 2.20 2.20 2.255 2.20 2.20 2.20 2.20 2.20 2.20 2.255 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.255 2.20</td><td></td></t<>	9.73 PFSbpTime-us 9.73 9.75 9.605 9.	0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	2.459 PF AugPk.Volts 2.592 2.67 2.57 2.57 2.57 2.57 2.57 2.57 2.57 1.725 1.583 1.583 1.583 1.583 1.583 1.583 1.555 1.725 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.775 1.865 1.855 1	2.974. PFFMasPA: Volt PFFMasPA: Volt PFFMasPA: Volt 3.136 3.228 3.3286 3.3286 2.287 2.556 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.21 2.256 2.26 2.21 2.256 2.20 2.255 2.20 2.20 2.255 2.20 2.20 2.20 2.20 2.20 2.20 2.255 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.255 2.20	

hotNumber 1001	TargetLocation 10	LP2052-1	50	0.40	9.605	0.185	2.248	2.70	
1001	10	LP2052-1 LP2052-1	50	9.42	9.605	0.185	2.248	2.72 2.851	+
1002	10	LP2052-1 LP2052-1	50	9.42	9.605	0.185	2.519	3.049	+
1004	10	LP2052-2	50	9.42	9.605	0.185	2.084	2.522	
1005	10	LP2052-2	50	9.42	9.605	0.185	2.14	2.589	
1006	10	LP2052-2	50	9.42	9.605	0.185	2.267	2.744	
1007	10	LP2052-2	50	9.42	9.605	0.185	2.426	2.936	
1008	10	LP2052-2	50	9.42	9.605	0.185	2.526	3.054	
1009	10	LP2052-2	50	9.42	9.605	0.185	2.656	3.215	
1010	10	LP2052-2	50	9.42	9.605	0.185	2.771	3.35	-
1011	10	LP2052-2	50	9.42	9.605	0.185	2.874	3.476	+
1012	10	LP2052-2	50	9.42	9.605	0.185	2.37	2.868	-
1013	10	LP2052-2 LP2052-2	50 50	9.42 9.42	9.605 9.605	0.185 0.185	2.509	3.036 2.506	+
1014	10	LP2052-2 LP2052-2	50	9.42	9.605	0.185	2.071	2.506	+
1015	10	LP2052-2	50	9.42	9.605	0.185	2.000	2.614	+
1017	10	LP2052-2	50	9.42	9.605	0.185	1.741	2.107	+
1018	10	LP2052-2	50	9.42	9.605	0.185	1.81	2.19	+
1019	10	LP2052-2	50	9.42	9.605	0.185	1.842	2.228	+
1020	10	LP2052-2	50	9.42	9.605	0.185	1.885	2.278	
1021	10	LP2052-2	50	9.42	9.605	0.185	1.921	2.322	
1022	10	LP2052-2	50	9.42	9.605	0.185	1.987	2.402	
1023	10	LP2052-2	50	9.42	9.605	0.185	2.018	2.442	
1024	10	LP2052-2	50	9.42	9.605	0.185	2.076	2.511	
1025	10	LP2052-2	50	9.42	9.605	0.185	2.116	2.561	+
1026	10	LP2052-2	50	9.42	9.605	0.185	2.303	2.787	-
1027	10 10	LP2052-2 LP2052-2	50 50	9.42 9.42	9.605 9.605	0.185 0.185	2.42	2.929	+
1028	10	LP2052-2 LP2052-2	50	9.42	9.605	0.185	2.527	3.069	+
1029	10	LP2052-2 LP2052-2	50	9.42	9.605	0.185	2.736	3.449	+
1030	8	LP2052-2	50	9.32	9.38	0.06	1.1234	1.492	+
1032	8	LP2052-2	50	9.32	9.38	0.06	0.9327	1.129	+
1033	8	LP2052-2	50	9.32	9.38	0.06	1.174	1.421	+
1034	8	LP2052-2	50	9.32	9.38	0.06	0.9478	1.147	
1035	8	LP2052-2	50	9.32	9.38	0.06	0.9944	1.204	
1036	8	LP2052-2	50	9.32	9.38	0.06	1.127	1.364	
1037	8	LP2052-2	50	9.32	9.38	0.06	1.15	1.392	
1038	8	LP2052-2	50	9.32	9.38	0.06	1.112	1.345	
1039	8	LP2052-2	50	9.32	9.38	0.06	1.355	1.641	
1040	8	LP2052-2	50	9.32	9.38	0.06	1.437	1.737	
1041	8	LP2052-2	50	9.32	9.38	0.06	1.277	1.545	
1042	8	LP2052-2	50 50	9.32	9.38	0.06	1.271	1.537	+
1043	8	LP2052-2 LP2052-2	50	9.32	9.38	0.06	1.341	1.623	
1044		LP2052-2	50	9.32	9.38	0.06	1.434	1.726	+
				0.02					+
	8			9.32	9.38	0.06			
1046	8	LP2052-2	50	9.32 9.32	9.38	0.06	1.573	1.903	
				9.32 9.32 9.32	9.38 9.38 9.38	0.06 0.06 0.06	1.573 1.723 1.777	2.086	
1046 1047	8	LP2052-2 LP2052-2	50 50	9.32	9.38	0.06	1.723	2.086	
1046 1047 1048	8 8 8	LP2052-2 LP2052-2 LP2052-2	50 50 50	9.32 9.32	9.38 9.38	0.06 0.06 0.06 0.06	1.723 1.777 1.653 1.623	2.086 2.15 2.001 1.964	
1046 1047 1048 1049 1050 ShotNumber	8 8 8 8 8 TargetLocation	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice	50 50 50 50 8FFrequency-MHz	9.32 9.32 9.32 9.32 RFStartTime-us	9.38 9.38 9.38 9.38 RFStopTime-us	0.06 0.06 0.06 0.06 RFTotalDuration-us	1.723 1.777 1.653 1.623 RFAvgPk-Volts	2.086 2.15 2.001 1.964 RFMaxPk-Volts	5 Up
1046 1047 1048 1049 1050 ihotNumber 1051	8 8 8 8 7argetLocation 8	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2	50 50 50 50 50 BFFrequency-MHz 50	9.32 9.32 9.32 9.32 RFStartTime-us 9.32	9.38 9.38 9.38 9.38 RFStopTime-us 9.38	0.06 0.06 0.06 0.06 RFTotalDuration-us 0.06	1.723 1.777 1.653 1.623 RFAvgPk-Volts 1.791	2.086 2.15 2.001 1.964 RFMaxPk-Volts 2.167	5 Up
1046 1047 1048 1049 1050 hotNumber 1051 1052	8 8 8 TargetLocation 8 8	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2	50 50 50 50 BFFrequency-MHz 50 50	9.32 9.32 9.32 9.32 RFStartTime-us 9.32 9.32	9.38 9.38 9.38 9.38 RFStopTime-us 9.38 9.38	0.06 0.06 0.06 RFTotalDuration-us 0.06 0.06	1.723 1.777 1.653 1.623 RFAvgPk-Volts 1.791 1.963	2.086 2.15 2.001 1.964 RFMaxPk-Volts 2.167 2.376	5 Up
1046 1047 1048 1049 1050 hotNumber 1051 1052 1053	8 8 8 TargetLocation 8 8 8 8	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 8FFrequency-MHz 50 50 50	9.32 9.32 9.32 9.32 RFStartTime-us 9.32 9.32 9.32	9.38 9.38 9.38 9.38 9.38 RFStopTime-us 9.38 9.38 9.38	0.06 0.06 0.06 RFTotalDuration-us 0.06 0.06 0.06	1.723 1.777 1.653 1.623 RFAvgPk-Volts 1.791 1.963 1.889	2.086 2.15 2.001 1.964 RFMaxPk-Volt: 2.167 2.376 2.286	; Up
1046 1047 1048 1049 1050 hotNumber 1051 1052 1053 1054	8 8 8 TargetLocation 8 8 8 8 8 8 8 8 8 8 8 8 8	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50	9.32 9.32 9.32 9.32 RFStartTime-us 9.32 9.32 9.32 9.32 9.32	9.38 9.38 9.38 9.38 9.38 RFStopTime-us 9.38 9.38 9.38 9.38 9.38	0.06 0.06 0.06 RFTotalDuration-us 0.06 0.06 0.06 0.06	1.723 1.777 1.653 1.623 RFAvgPk-Volts 1.791 1.963 1.889 1.969	2.086 2.15 2.001 1.964 RFMaxPk-Volts 2.167 2.376 2.286 2.384	: Up
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1046 1047 1048 1049 1050 hotNumber 1051 1052 1053 1054	8 8 8 TargetLocation 8 8 8 8 8 8 8 8 8 8 8 8 8	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 TestDevice LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50	9.32 9.32 9.32 9.32 RFStartTime-us 9.32 9.32 9.32 9.32 9.32	9.38 9.38 9.38 9.38 9.38 RFStopTime-us 9.38 9.38 9.38 9.38 9.38	0.06 0.06 0.06 RFTotalDuration-us 0.06 0.06 0.06 0.06	1.723 1.777 1.653 1.623 RFAvgPk-Volts 1.791 1.963 1.889 1.969	2.086 2.15 2.001 1.964 RFMaxPk-Volts 2.167 2.376 2.286 2.384	5 Up
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1046 1047 1048 1049 1050 hotNumber 1051 1052 1053 1054 1055 1056 1057 1058	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9.32 9.32 9.32 9.32 9.32 9.32 9.32 9.32	9.38 9.38 9.38 9.38 9.38 9.38 9.38 9.38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1.723 1.777 1.653 1.623 FFAvgPk-Volts 1.791 1.963 1.969 2.048 2.127 2.24 2.172	2.086 2.15 2.001 1.964 PFMaxPk-Volt: 2.167 2.236 2.236 2.384 2.478 2.575 2.711 2.627	
1046 1047 1048 1049 1050 hotNumber 1051 1052 1053 1055 1056 1055 1056 1057 1058 1059 1059 1060	8 8 8 7 argetLocation 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9.32 9.32 9.32 9.32 9.32 9.32 9.32 9.32	9.38 9.38 9.38 9.38 9.38 9.38 9.38 9.38	0.06 0.06 0.06 FFTotalDuration-us 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.0	1.723 1.777 1.653 1.623 1.623 1.963 1.963 1.963 1.963 2.048 2.127 2.24 2.172 2.223 2.436 2.379	2.086 2.15 2.001 1.964 RFMaxPk-Volt: 2.167 2.286 2.384 2.478 2.478 2.575 2.711 2.627 2.688 2.948 2.88	
1046 1047 1048 1049 1050 hotNumber 1051 1052 1053 1054 1055 1055 1055 1055 1055 1059 1060 1061 1061	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2 LP2052-2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9.32 9.32 9.32 9.32 9.32 9.32 9.32 9.32	9.38 9.38 9.38 9.38 9.38 9.38 9.38 9.38	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1723 1.777 1.853 1.623 1.623 1.791 1.963 1.969 2.048 2.127 2.24 2.127 2.24 2.172 2.223 2.436 2.379 2.446	2.086 2.15 2.001 1.964 BFMaxPk-Voltz 2.376 2.286 2.384 2.478 2.575 2.711 2.627 2.688 2.948 2.948 2.96	
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1046 1047 1048 1049 1049 1050 1050 1050 1051 1053 1054 1055 1055 1055 1055 1055 1055 1055	8           9           9	IP2052.2           IP2052.2 <t< td=""><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>9.32         9.32           9.32</td></t<> <td>9.38 9.39 9.30 9.30 9.30 9.30 9.30 9.30 9.30</td> <td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td> <td>1723 1777 1653 1623 1623 1781 1893 1963 2.044 2.171 2.172 2.23 2.23 2.436 2.446 2.172 2.23 2.436 2.446 2.172 2.23 2.436 2.446 1912 2.436 0.556 0.7552 0.7555 0.7555 0.5576 0.5573 0.5563 0.5573 0.5774 0.5573 0.5573 0.5774 0.5573 0.5573 0.5774 0.5573 0.5774 0.5753 0.5774 0.5774 0.5753 0.57740 0.57740 0.57740000000000000000000000000000000000</td> <td>2.096 2.09 2.001 1.964 2.001 1.964 2.001 1.964 2.001 2.967 2.296 2.294 2.478 2.575 2.296 2.478 2.575 2.592 2.59 2.59</td> <td></td>	50 50 50 50 50 50 50 50 50 50 50 50 50 5	9.32         9.32           9.32	9.38 9.39 9.30 9.30 9.30 9.30 9.30 9.30 9.30	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	1723 1777 1653 1623 1623 1781 1893 1963 2.044 2.171 2.172 2.23 2.23 2.436 2.446 2.172 2.23 2.436 2.446 2.172 2.23 2.436 2.446 1912 2.436 0.556 0.7552 0.7555 0.7555 0.5576 0.5573 0.5563 0.5573 0.5774 0.5573 0.5573 0.5774 0.5573 0.5573 0.5774 0.5573 0.5774 0.5753 0.5774 0.5774 0.5753 0.57740 0.57740 0.57740000000000000000000000000000000000	2.096 2.09 2.001 1.964 2.001 1.964 2.001 1.964 2.001 2.967 2.296 2.294 2.478 2.575 2.296 2.478 2.575 2.592 2.59 2.59	
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ShotNumber	TargetLocation	TestDevice	RFFrequency-MHz	RFStartTime-us	RFStopTime-us	RFTotalDuration-us	RFAvgPk-Volts	RFMaxPk-Volts	Upset
1101	9	LP2052-2	50	9.42	9.79	0.37	1.981	2.397	0
1102	9	LP2052-2	50	9.42	9.79	0.37	2.025	2.451	0
1103	9	LP2052-2	50	9.42	9.79	0.37	2.067	2.502	1
1104	9	LP2052-2	50	9.42	9.79	0.37	2.207	2.671	1
1105	9	LP2052-2	50	9.42	9.79	0.37	2.356	2.848	1
1106	9	LP2052-2	50	9.42	9.79	0.37	1.442	1.745	0
1107	9	LP2052-2	50	9.42	9.79	0.37	1.45	1.755	0
1108	10	LP2052-2	50	9.42	9.605	0.185	1.847	2.236	0
1109	10	LP2052-2	50	9.42	9.605	0.185	1.903	2.303	0
1110	10	LP2052-2	50	9.42	9.605	0.185	1.947	2.355	0
1111	10	LP2052-2	50	9.42	9.605	0.185	1.976	2.392	0
1112	10	LP2052-2	50	9.42	9.605	0.185	2.032	2.458	0
1113	10	LP2052-2	50	9.42	9.605	0.185	2.098	2.537	1
1114	10	LP2052-2	50	9.42	9.605	0.185	2.191	2.652	0
1115	10	LP2052-2	50	9.42	9.605	0.185	2.211	2.676	1
1116	10	LP2052-2	50	9.42	9.605	0.185	2.354	2.85	1
1117	10	LP2052-2	50	9.42	9.605	0.185	2.455	2.969	1
1118	10	LP2052-2	50	9.42	9.605	0.185	2.532	3.064	1
1119	10	LP2052-2	50	9.42	9.605	0.185	2.747	3.325	1
1120	10	LP2052-2	50	9.42	9.605	0.185	2.945	3.561	1
1121	10	LP2052-2	50	9.42	9.605	0.185	3.055	3.698	1
1122	10	LP2052-2	50	9.42	9.605	0.185	3.201	3.872	1
1123	10	LP2052-2	50	9.42	9.605	0.185	3.286	3.973	1
1124	10	LP2052-2	50	9.42	9.605	0.185	3.445	4.166	1
1125	10	LP2052-2	50	9.42	9.605	0.185	2.295	2.778	1
1126	10	LP2052-2	50	9.42	9.605	0.185	1.357	1.641	0
1127	10	LP2052-2	50	9.42	9.605	0.185	1.391	1.683	0
1128	10	LP2052-2	50	9.42	9.605	0.185	1.423	1.721	0
1129	10	LP2052-2	50	9.42	9.605	0.185	1.455	1.758	0
1130	10	LP2052-2	50	9.42	9.605	0.185	1.492	1.806	0
1131	10	LP2052-2	50	9.42	9.605	0.185	1.535	1.858	0
1132	10	LP2052-2	50	9.42	9.605	0.185	1.58	1.912	0
1133	10	LP2052-2	50	9.42	9.605	0.185	1.626	1.966	0
1134	10	LP2052-2	50	9.42	9.605	0.185	1.65	1.996	0

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