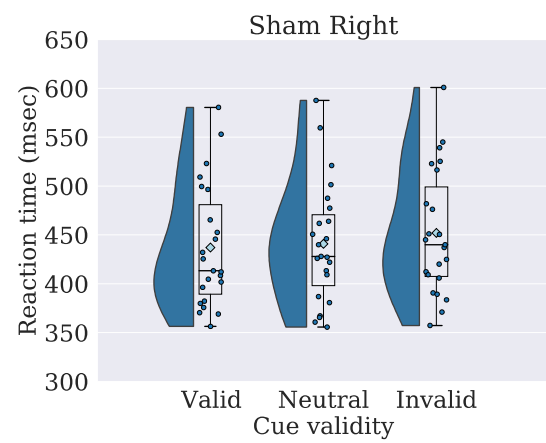
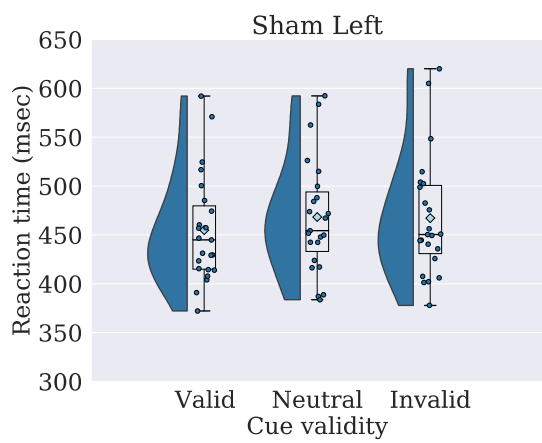
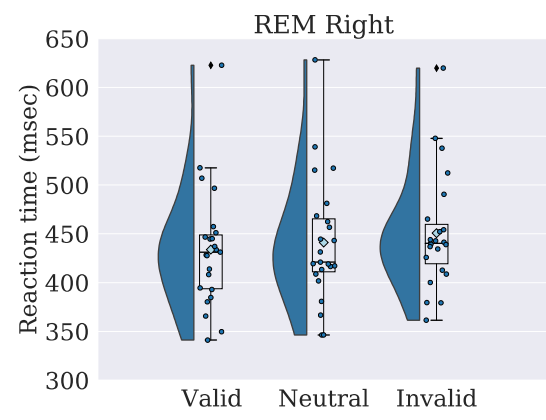
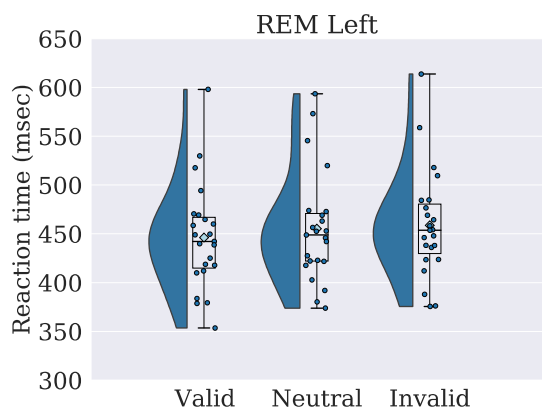
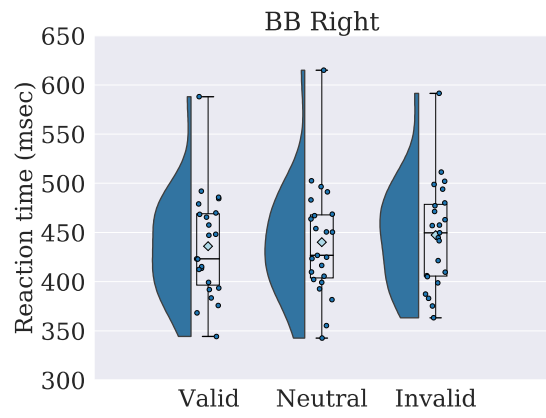
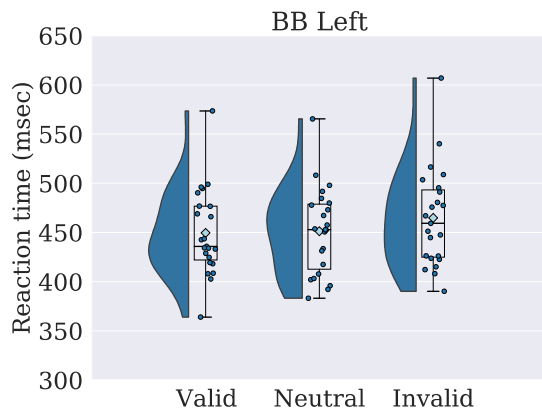
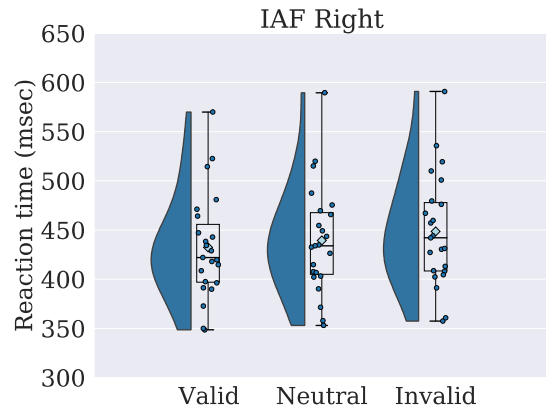
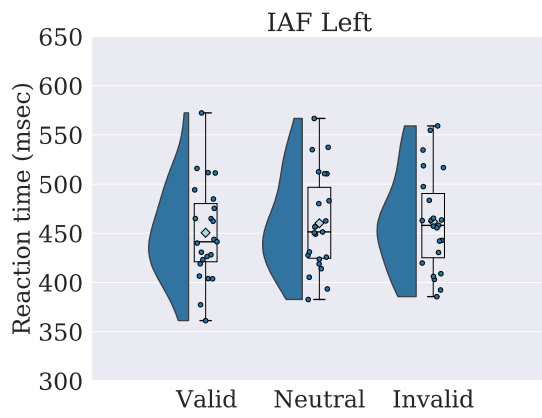


Supplementary Materials

Subject	Min(BB)	Max(BB)	SD(BB)	Min(REM)	Max(REM)	SD(REM)
1	-0.63	0.63	0.1539	-0.83	1.00	0.1543
2	-0.61	0.62	0.2154	-0.91	1.00	0.2152
3	-0.65	0.65	0.1621	-0.74	1.00	0.1624
4	-0.79	0.78	0.2572	-0.87	1.00	0.2585
5	-1.00	0.98	0.1718	-0.84	0.98	0.1781
6	-0.92	0.94	0.2540	-0.95	1.00	0.2546
7	-0.60	0.59	0.1694	-1.00	0.76	0.1695
8	-1.00	1.00	0.2247	-0.73	0.97	0.2253
9	-0.83	0.87	0.1652	-0.67	1.00	0.1648
10	-1.00	0.98	0.2153	-0.77	0.92	0.2154
11	-0.99	1.00	0.1866	-0.74	0.82	0.1873
12	-0.58	0.59	0.1523	-1.00	0.70	0.1526
13	-0.47	0.48	0.0949	-1.00	0.78	0.0953
14	-0.71	0.73	0.1922	-1.00	0.97	0.1922
15	-1.00	1.00	0.2233	-0.89	0.87	0.2228
16	-0.75	0.78	0.2449	-1.00	0.98	0.2449
17	-0.70	0.69	0.1495	-0.91	1.00	0.1492
18	-0.41	0.42	0.1539	-0.70	1.00	0.1535
19	-0.60	0.62	0.0376	-0.58	1.00	0.0377
20	-0.57	0.57	0.1573	-1.00	0.66	0.1576
21	-0.82	0.80	0.2052	-1.00	0.93	0.2051
22	-1.00	0.98	0.2175	-0.96	0.87	0.2177
BS-SD	0.19	0.19	0.05	0.13	0.11	0.05

Supplementary Table 1. Descriptive statistics for the broadband-alpha and alpha-removed tACS protocols. For each (included) participant, the minimum amplitude (Min), maximum amplitude (Max), and standard deviation of the amplitude (SD) are shown for the broadband-alpha tACS protocol (BB) and the alpha-removed protocol (REM). Four decimals are shown for the SD(BB) and SD(REM) to highlight the minor differences between the two columns. The lowermost row shows the between-subject standard deviations (BS-SD) for each of the columns.



Supplementary Figure 1. Raw reaction time data in trials without distractors for the individual alpha frequency ('IAF'), broadband-alpha ('BB'), alpha-removed ('REM'), and sham tACS conditions (subplot rows), for each hemifield (subplot columns) and cue validity (x-axes). Each dot represents data from a single subject. Mean reaction times are indicated with diamonds. Data distributions are visualized using boxplots and probability distributions. Note that the seemingly deviating data points in the broadband-alpha tACS condition (upper row of subplots, all from the same participant) were no outliers statistically, and none of our conclusions changed when excluding that participant.
