

### Subject Information

Name: Oms, Alison

Subject ID: 3116

Date of Birth: 08/24/1967

Age: 47.20

Gender: Female

Handedness: Right

EEG ID: 3116

Date of Test: 11/06/2014

Time of Test: 09:42:09

Technician: Ajeet Charate

Eyes Condition: Eyes Closed

Clinician: James A. Kowal, Ph.D., BCN

Medication:

Comments:

### Technical Information

Record Length: 10:04

Edit Length: 03:52

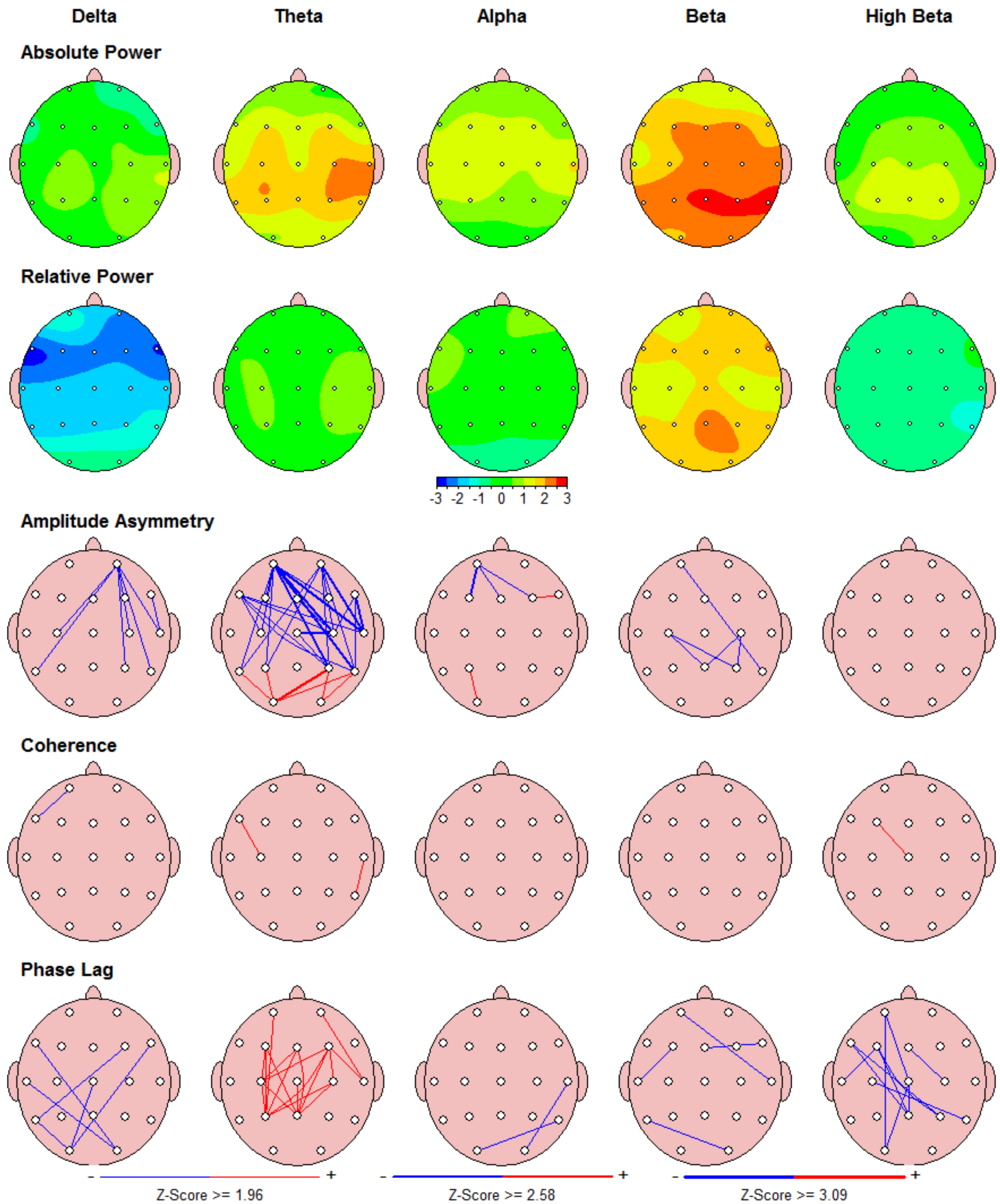
Reliability:

	Split Half	Test Retest
Average	0.99	0.95
FP1	0.98	0.99
FP2	0.99	0.98
F7	0.98	0.98
F3	0.97	0.97
Fz	0.98	0.98
F4	0.99	0.97
F8	1.00	0.96
T3	0.98	1.00
C3	0.97	0.96
Cz	0.99	0.97
C4	1.00	0.94
T4	1.00	0.96
T5	0.97	0.97
P3	0.98	0.94
Pz	1.00	0.90
P4	1.00	0.93
T6	0.99	0.95
O1	0.98	0.91
O2	1.00	0.89

Sampling Rate: 256

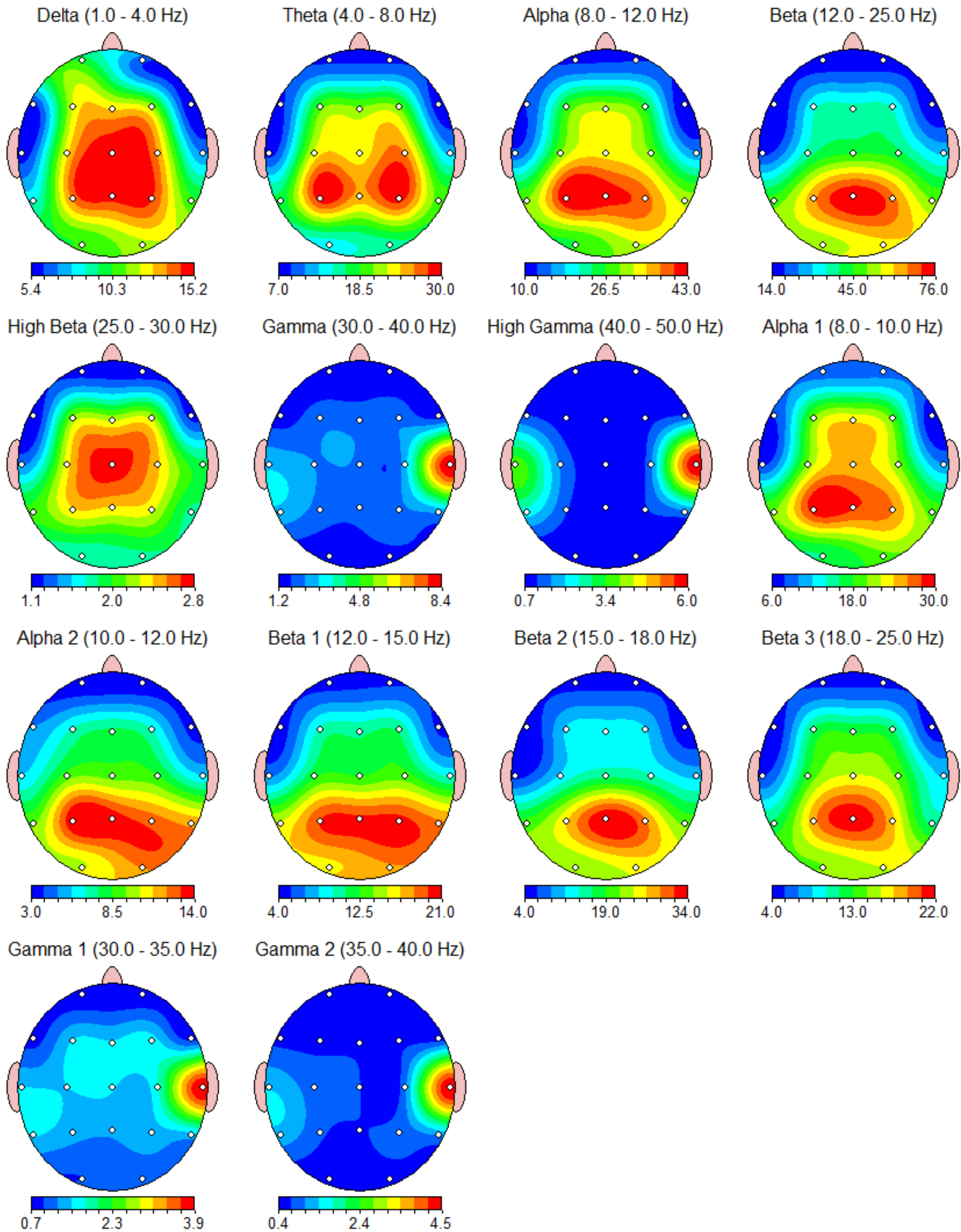
Collection Hardware: Deymed

### Z Scored FFT Summary Information



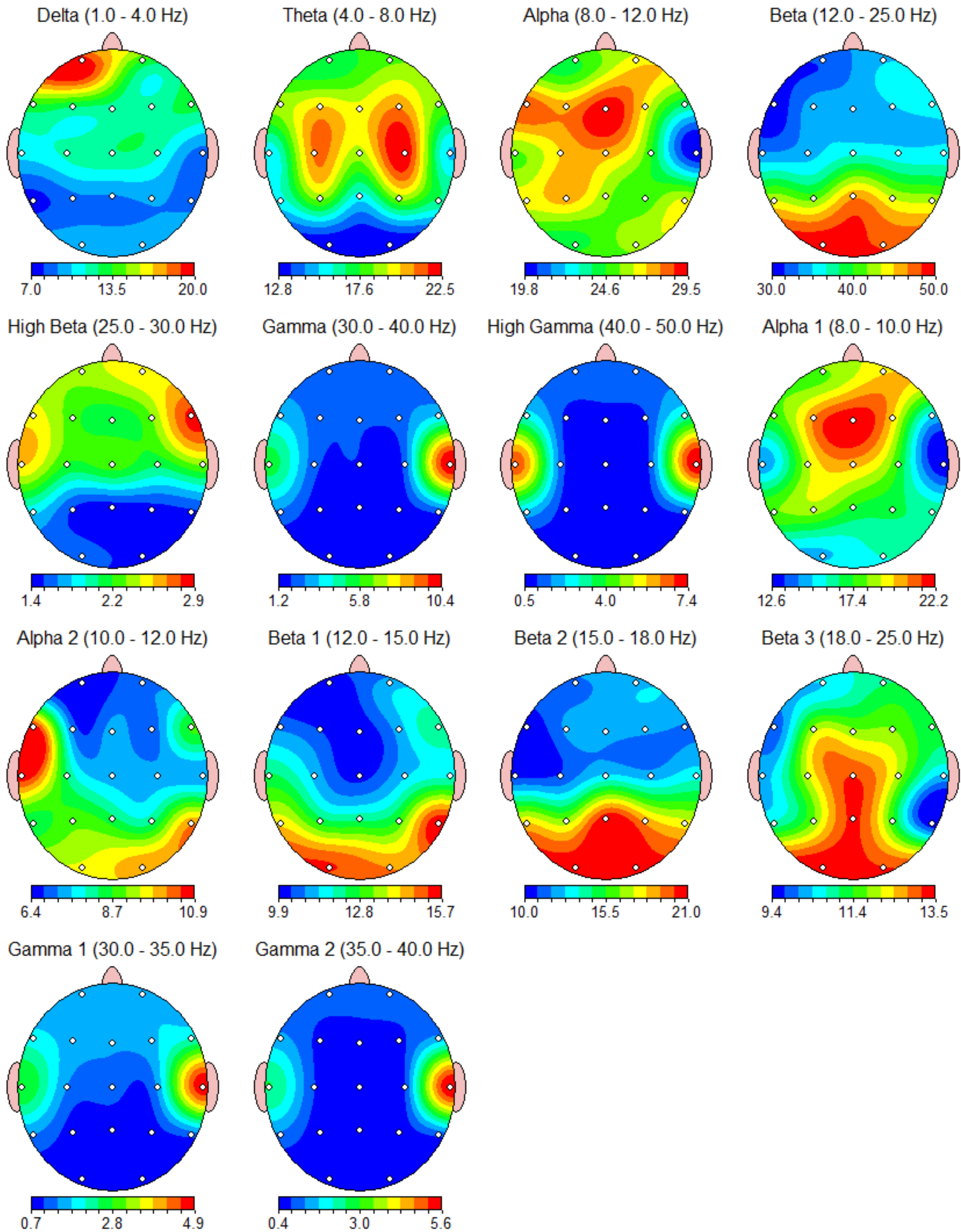


### FFT Absolute Power (uV Sq)

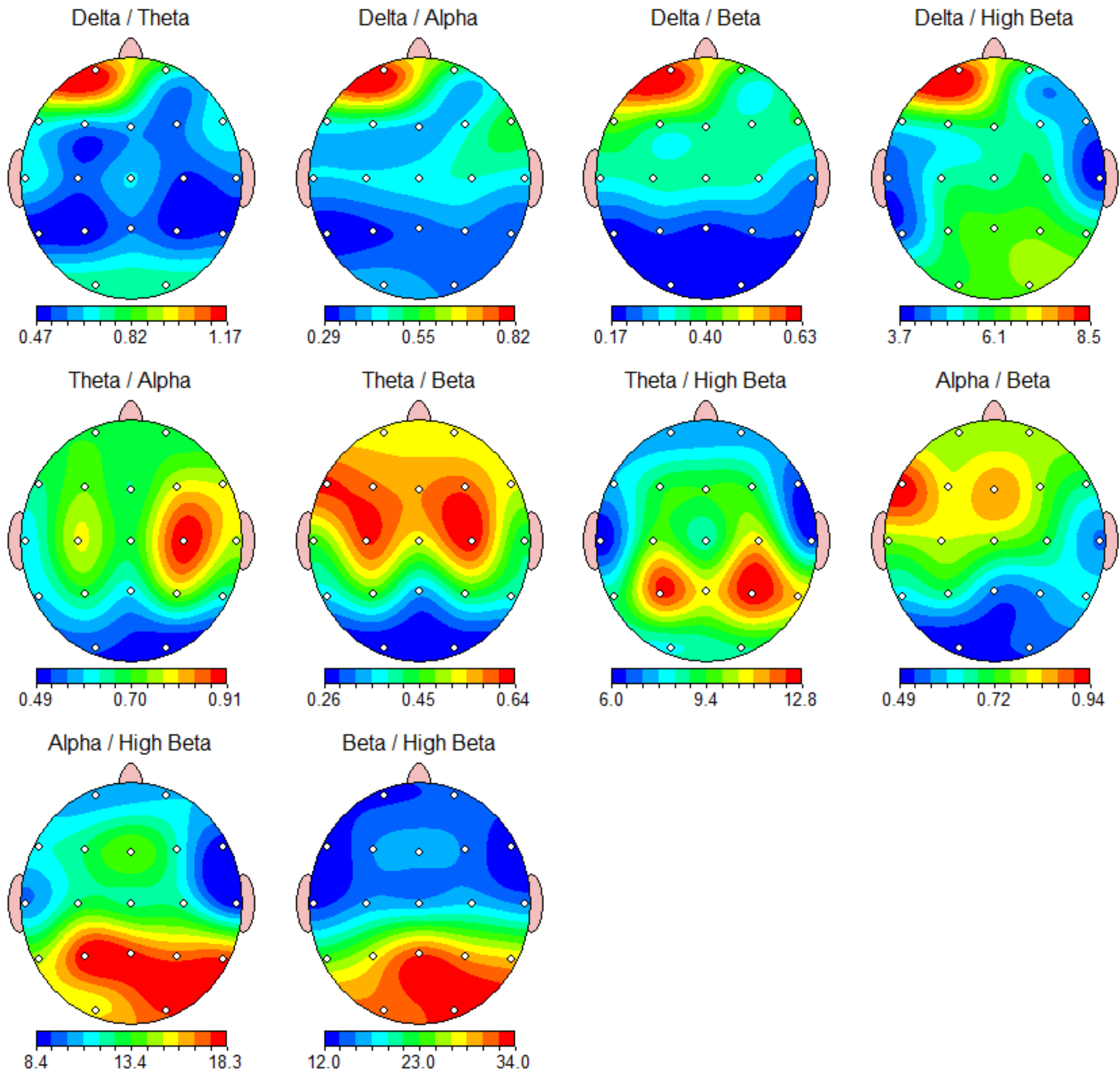


### FFT Relative Power (%)

Warning: Absolute power must be consulted to interpret relative power.

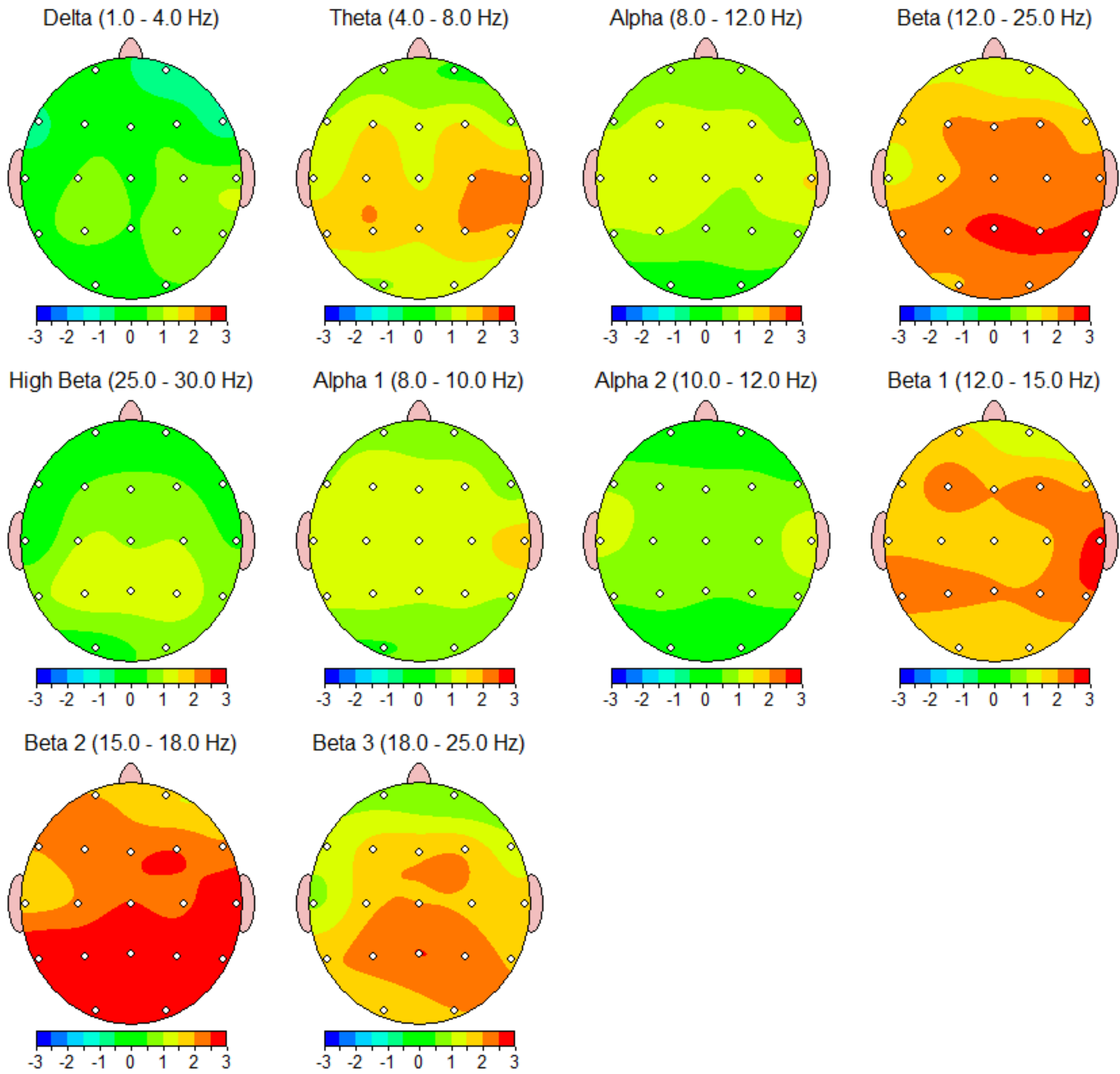


### FFT Power Ratio





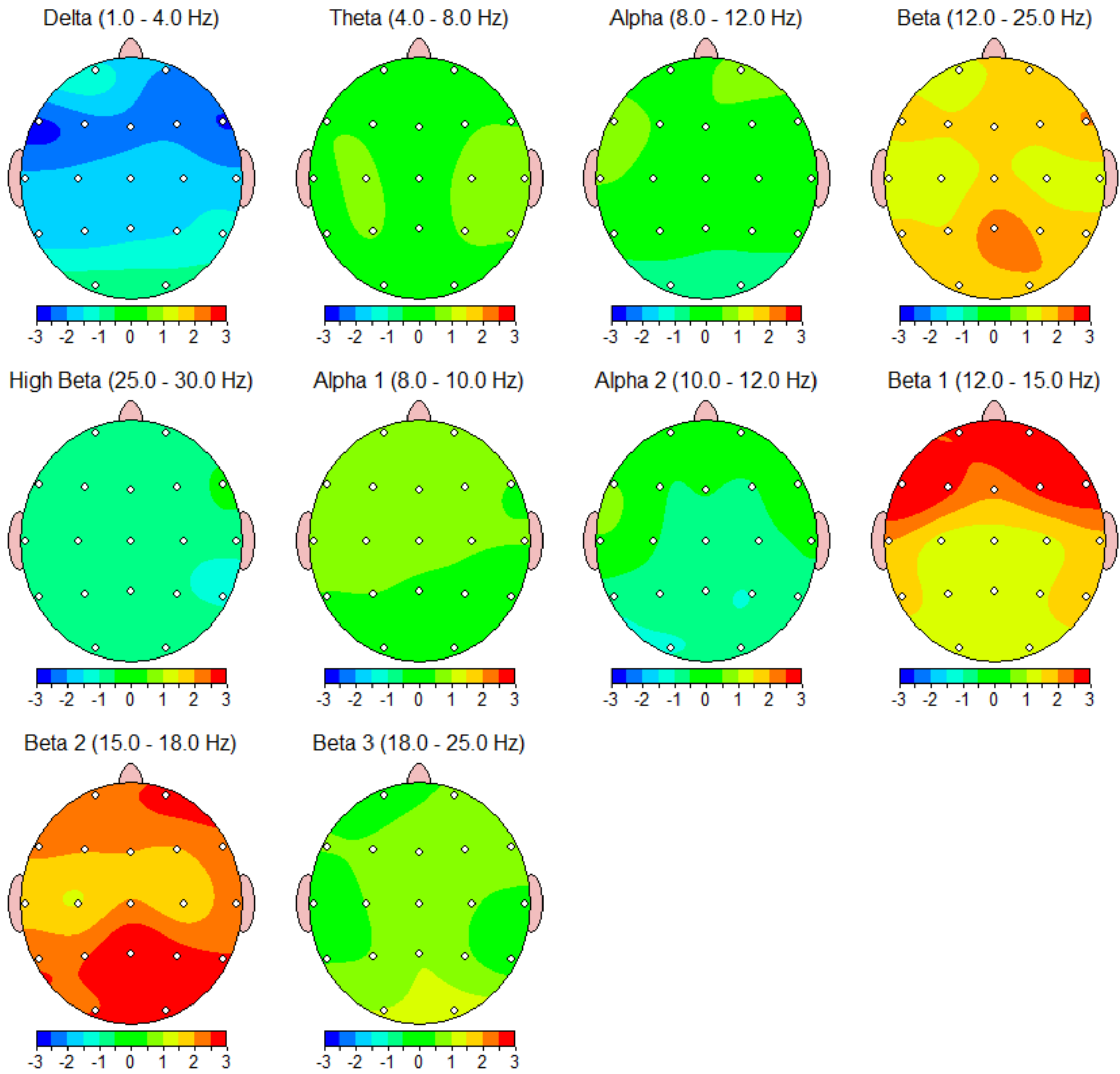
### Z Scored FFT Absolute Power



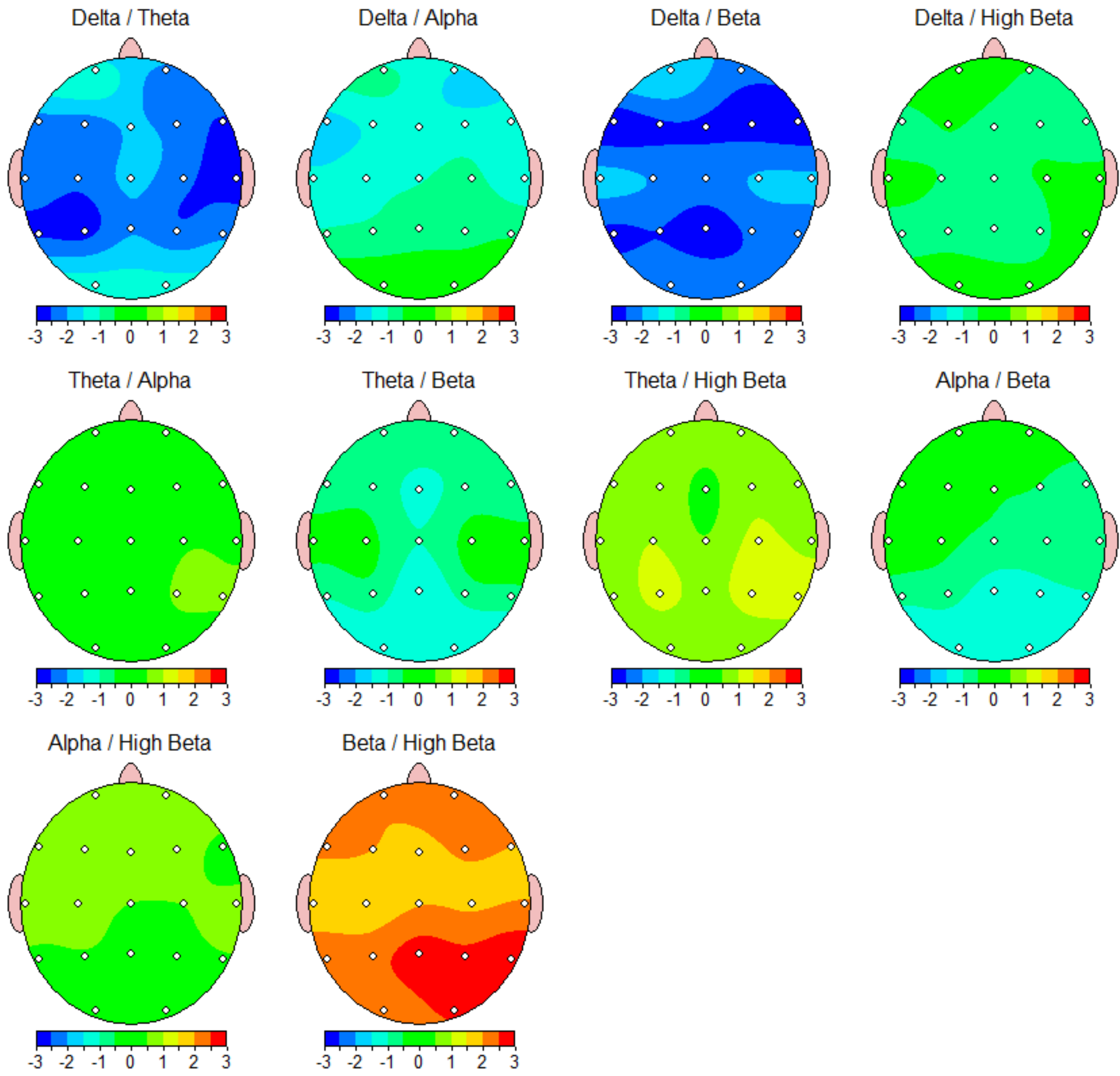


### Z Scored FFT Relative Power

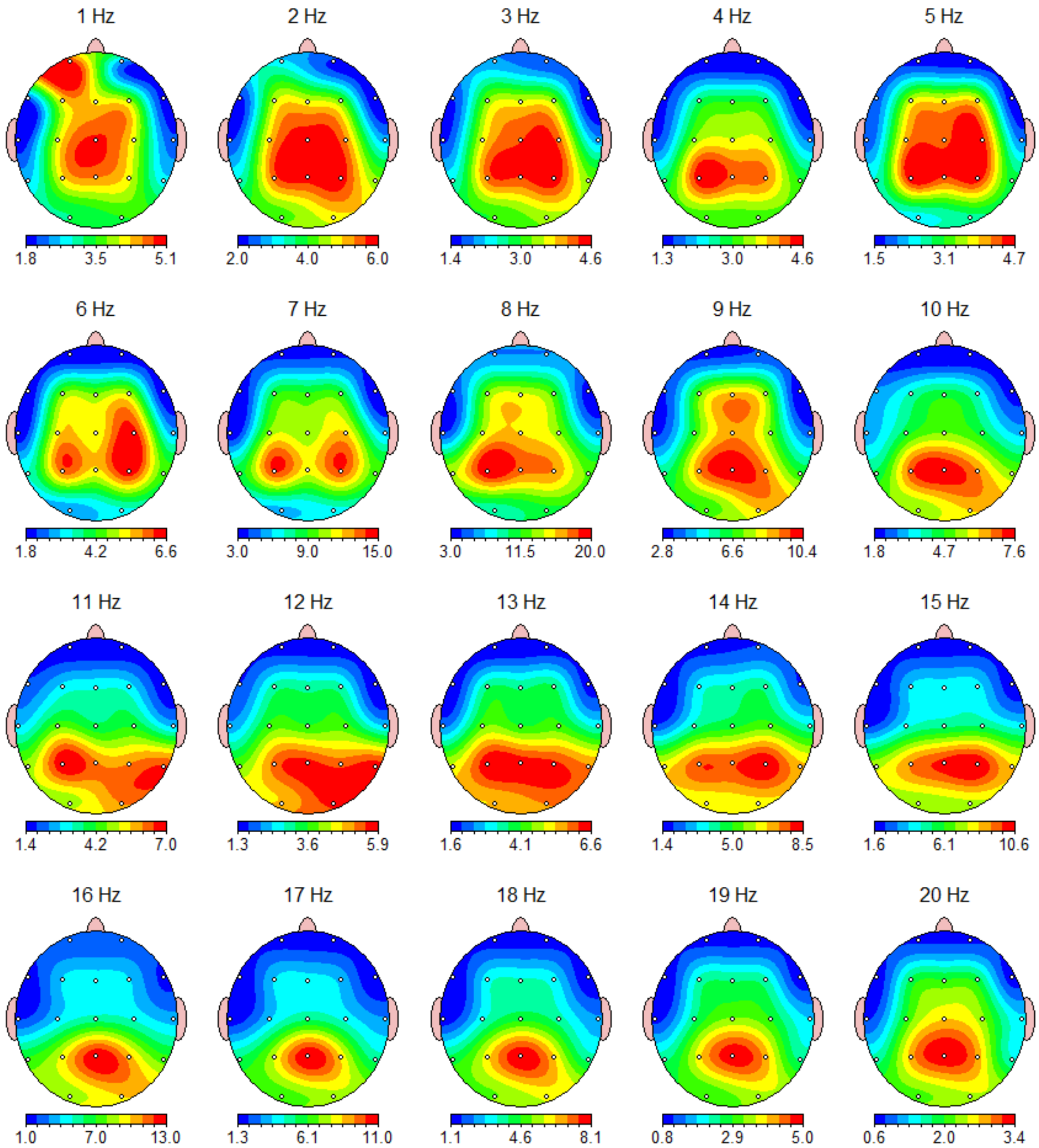
Warning: Absolute power must be consulted to interpret relative power.



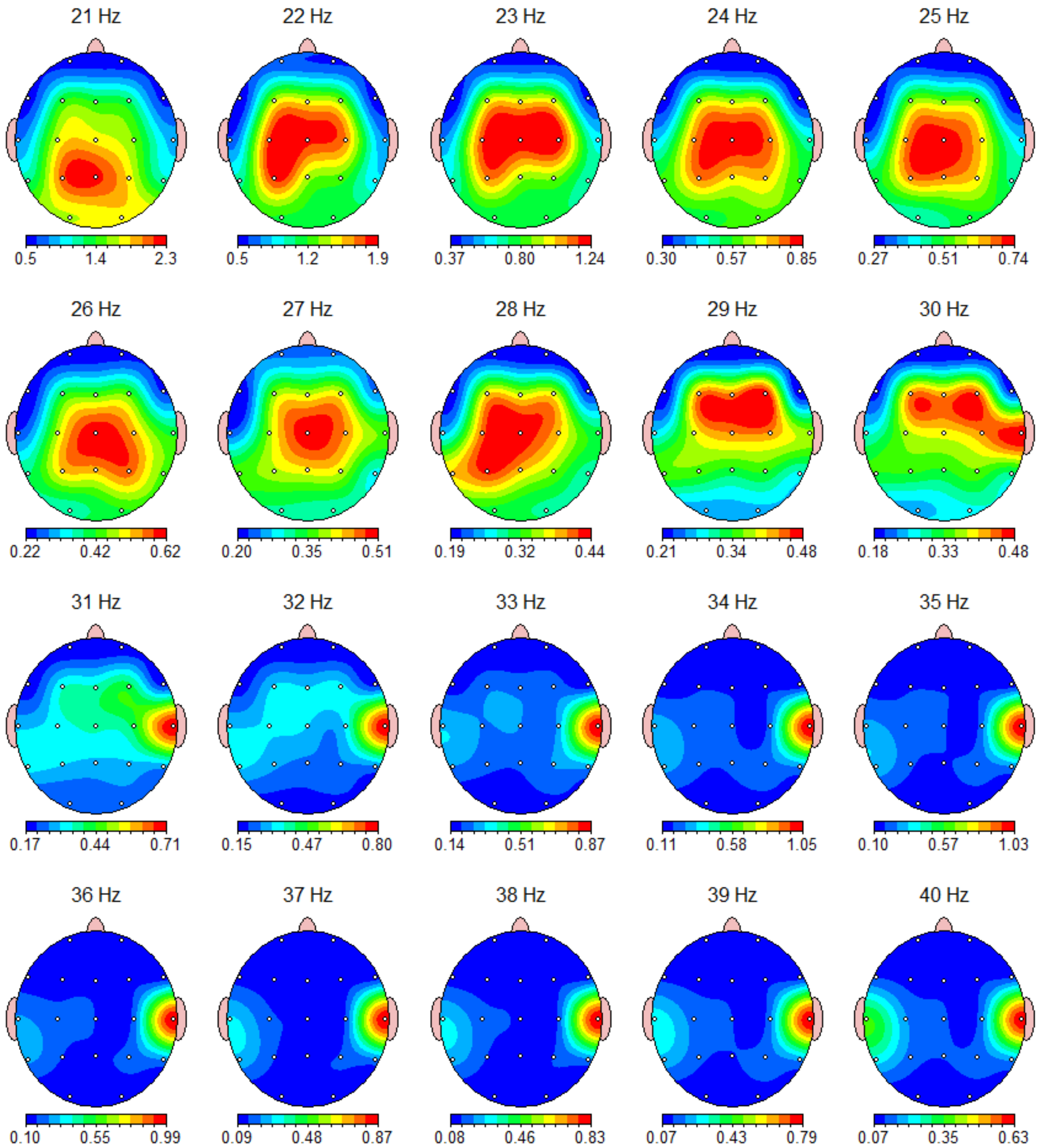
### Z Scored FFT Power Ratio



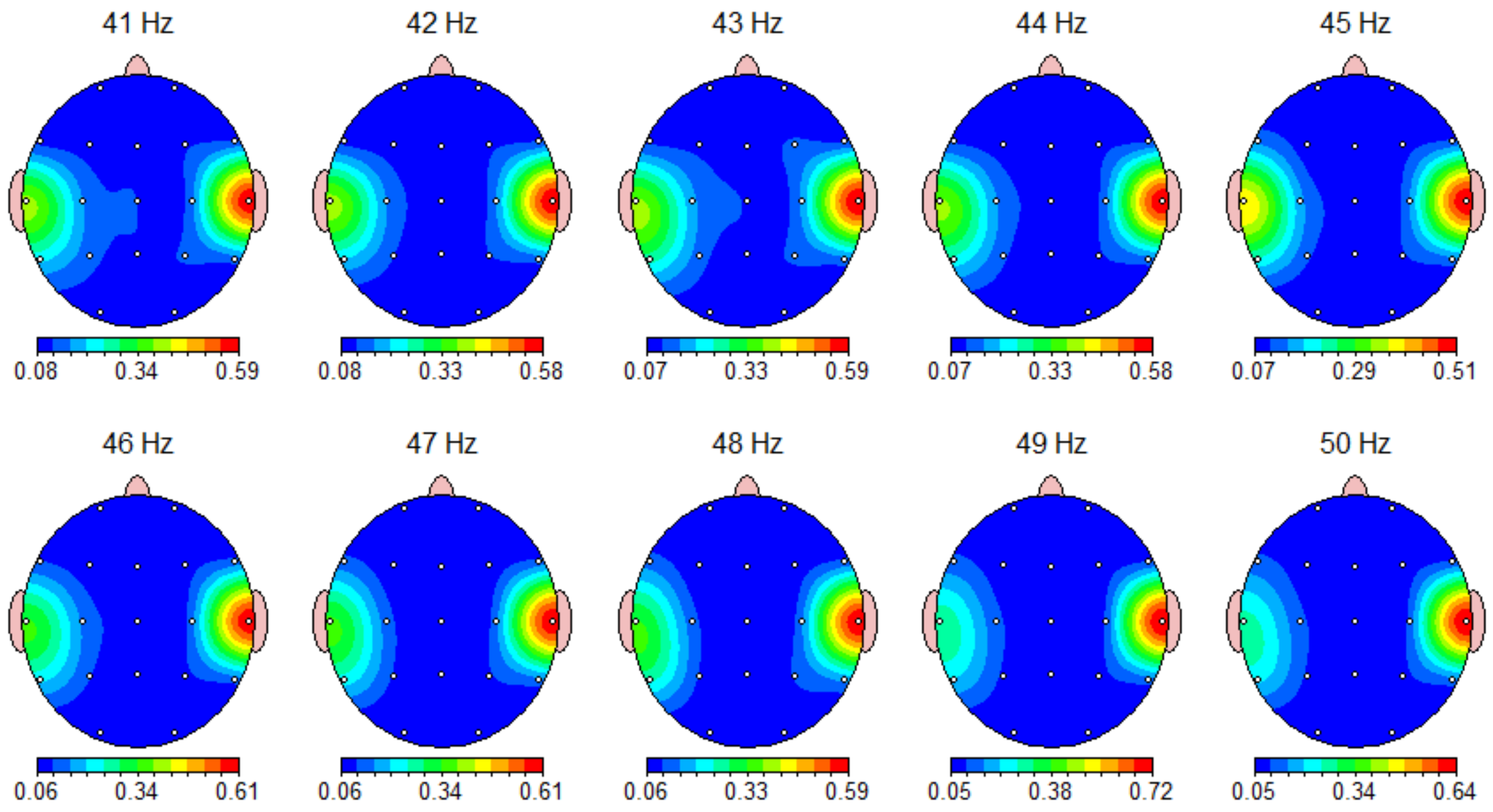
### FFT Absolute Power (uV Sq)



### FFT Absolute Power (uV Sq)



### FFT Absolute Power (uV Sq)

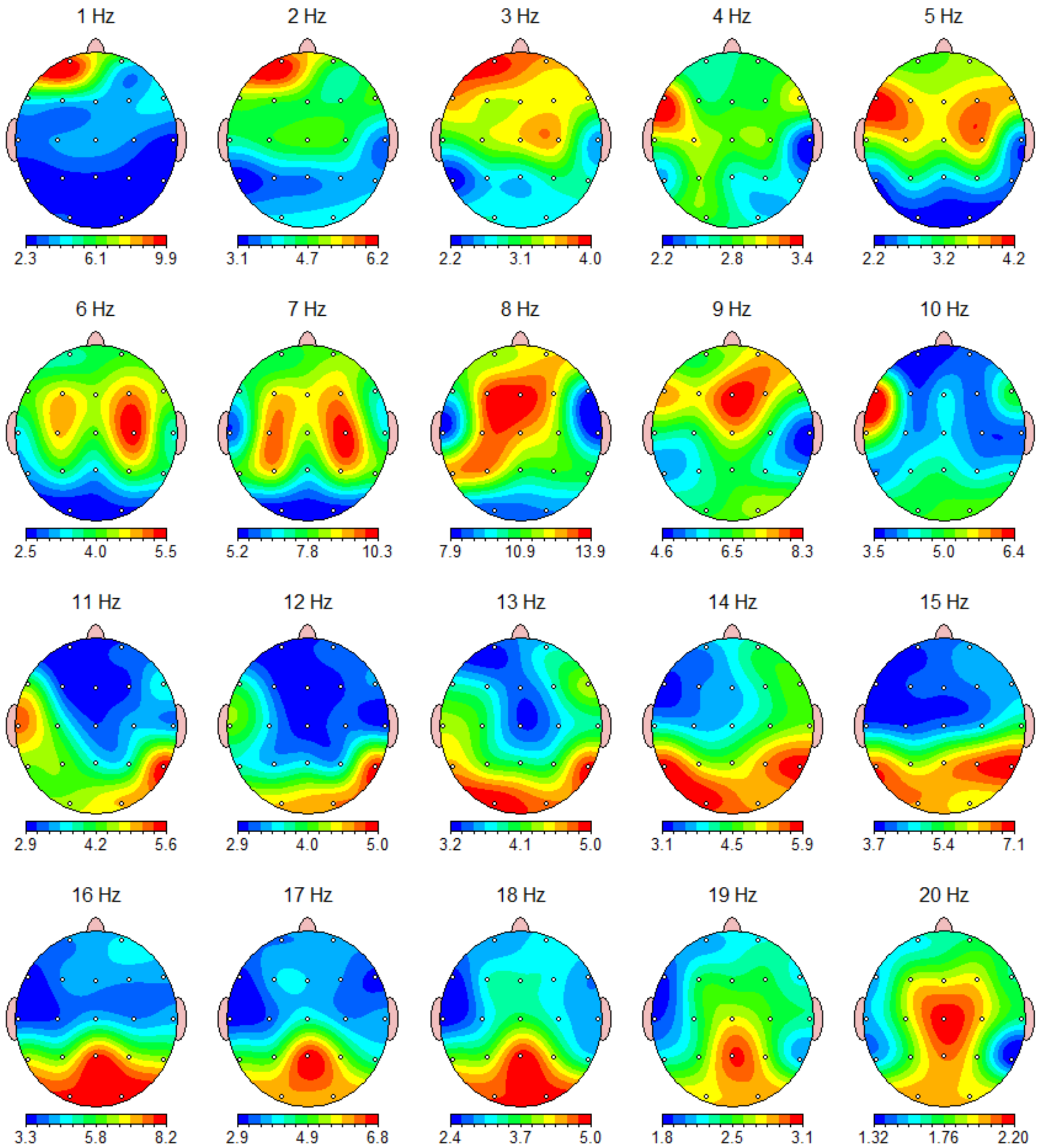






### FFT Relative Power (%)

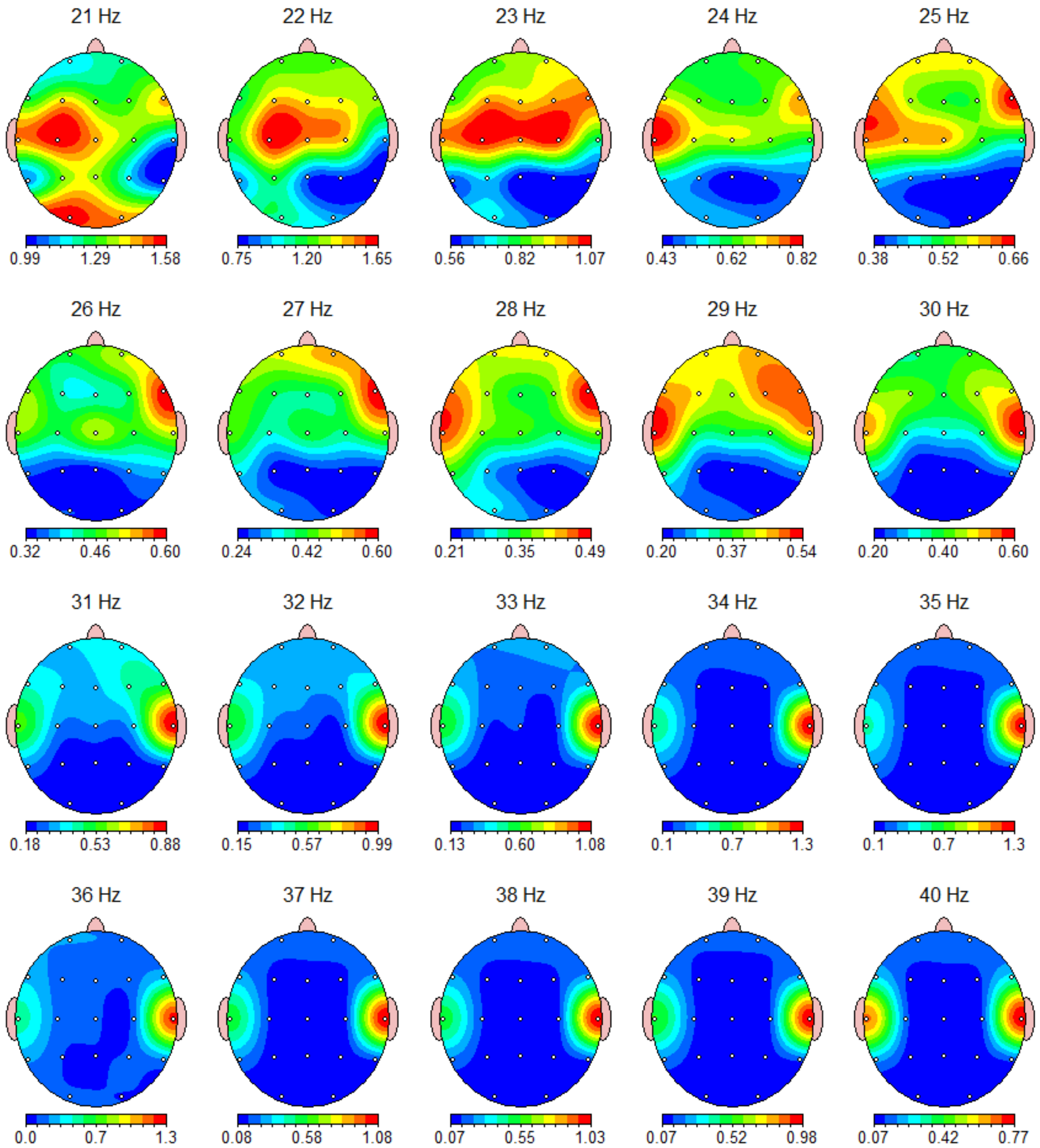
Warning: Absolute power must be consulted to interpret relative power.





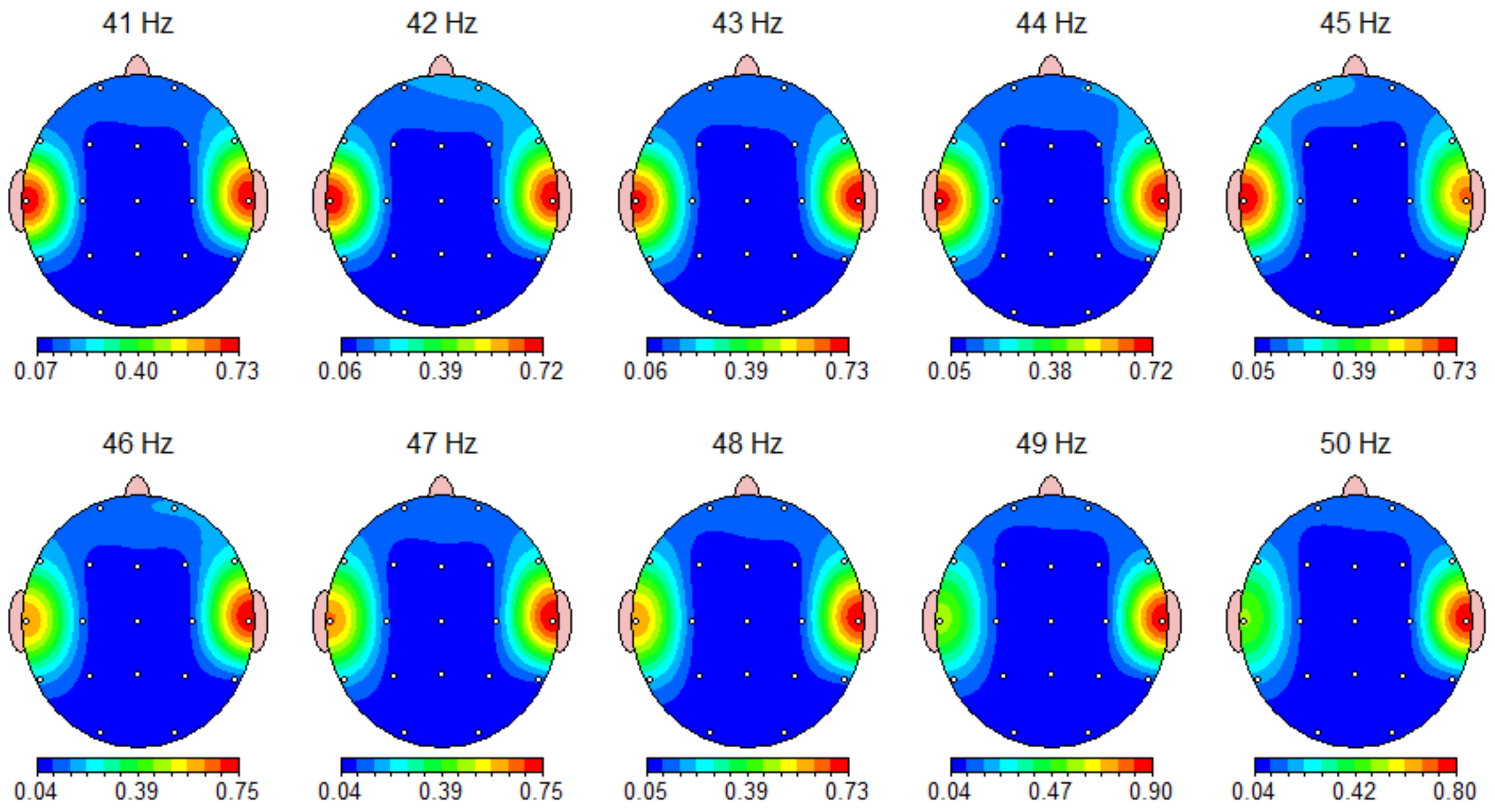
### FFT Relative Power (%)

Warning: Absolute power must be consulted to interpret relative power.



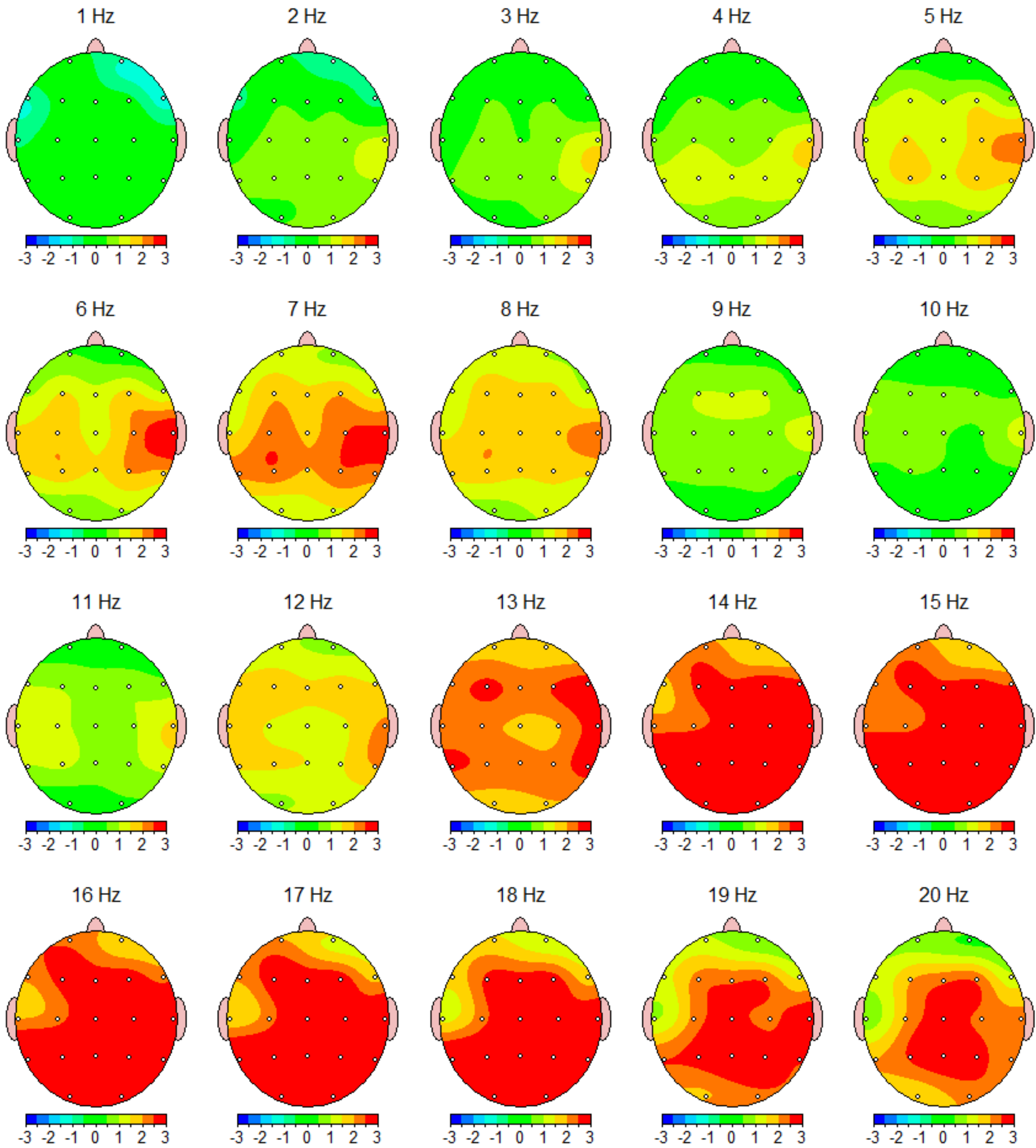
### FFT Relative Power (%)

Warning: Absolute power must be consulted to interpret relative power.

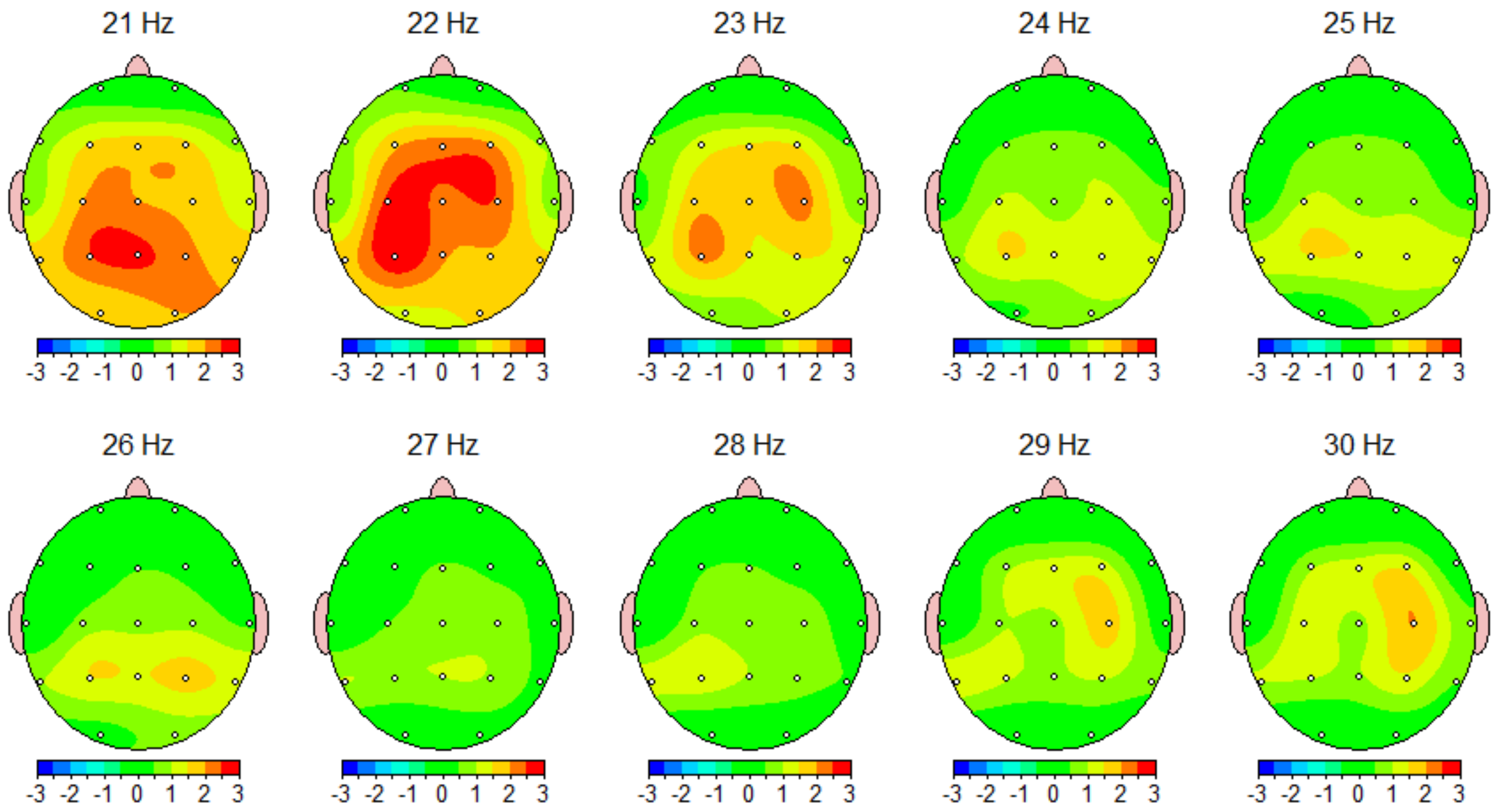




### Z Scored FFT Absolute Power

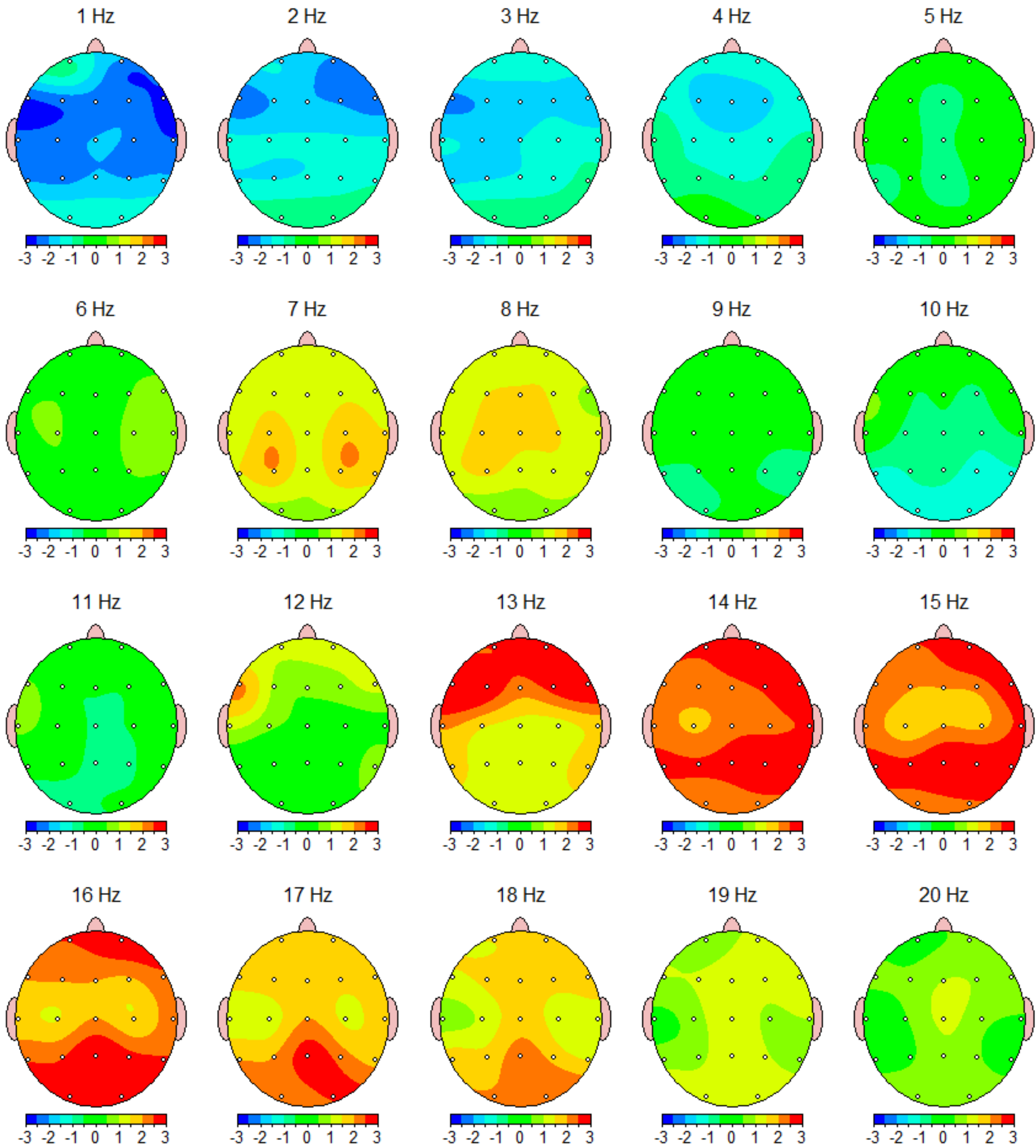


### Z Scored FFT Absolute Power



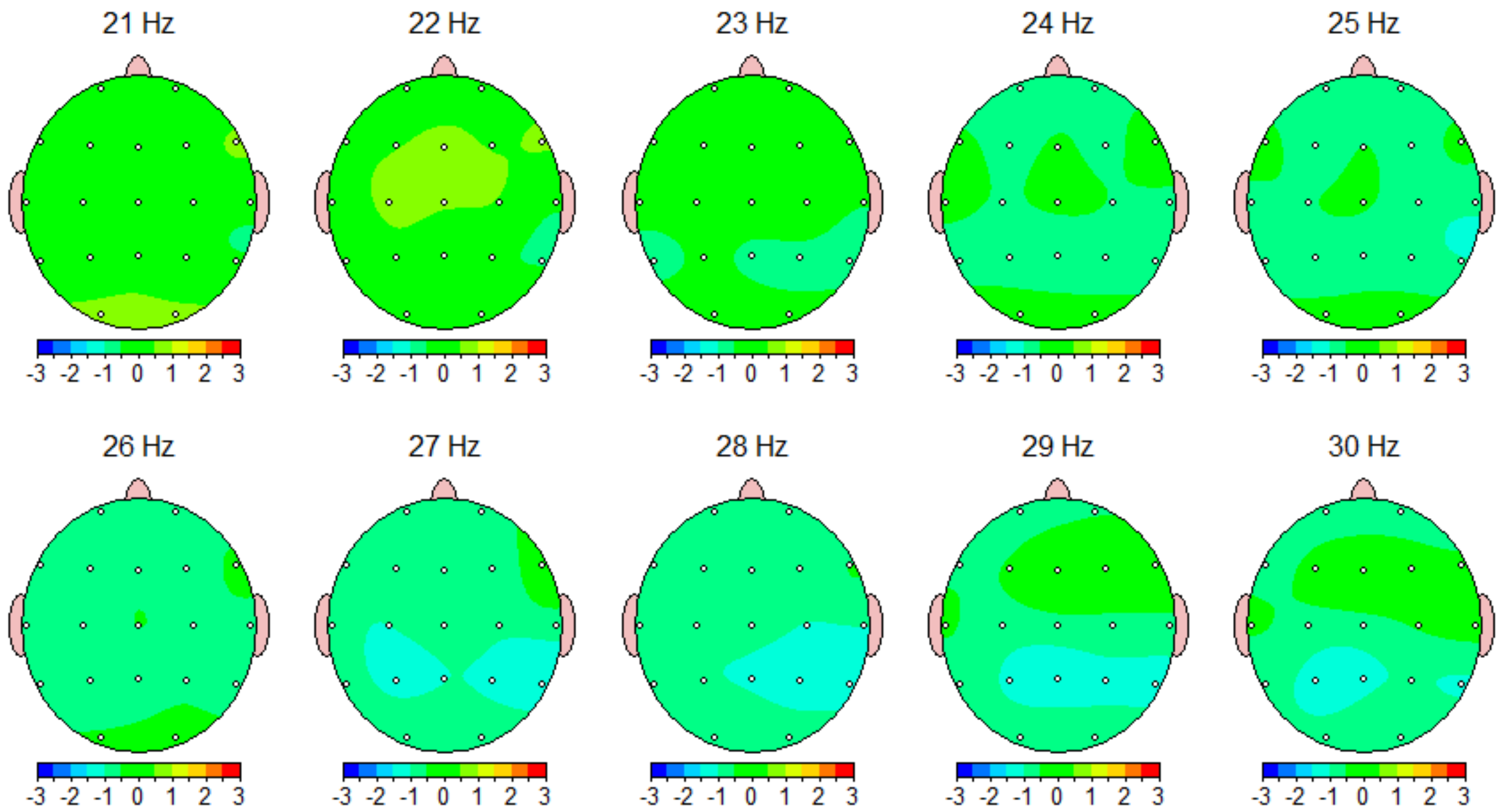
### Z Scored FFT Relative Power

Warning: Absolute power must be consulted to interpret relative power.



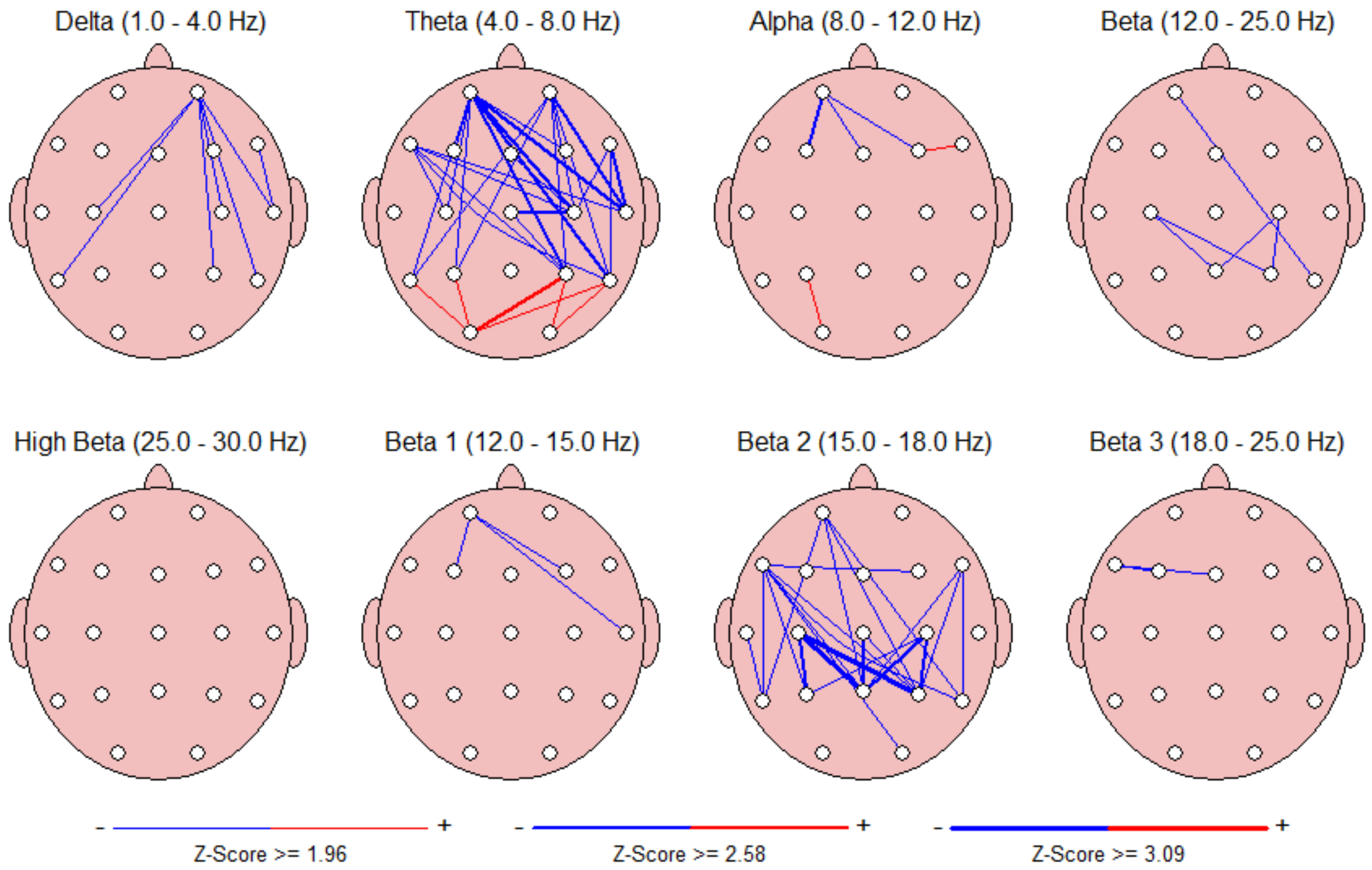
### Z Scored FFT Relative Power

Warning: Absolute power must be consulted to interpret relative power.

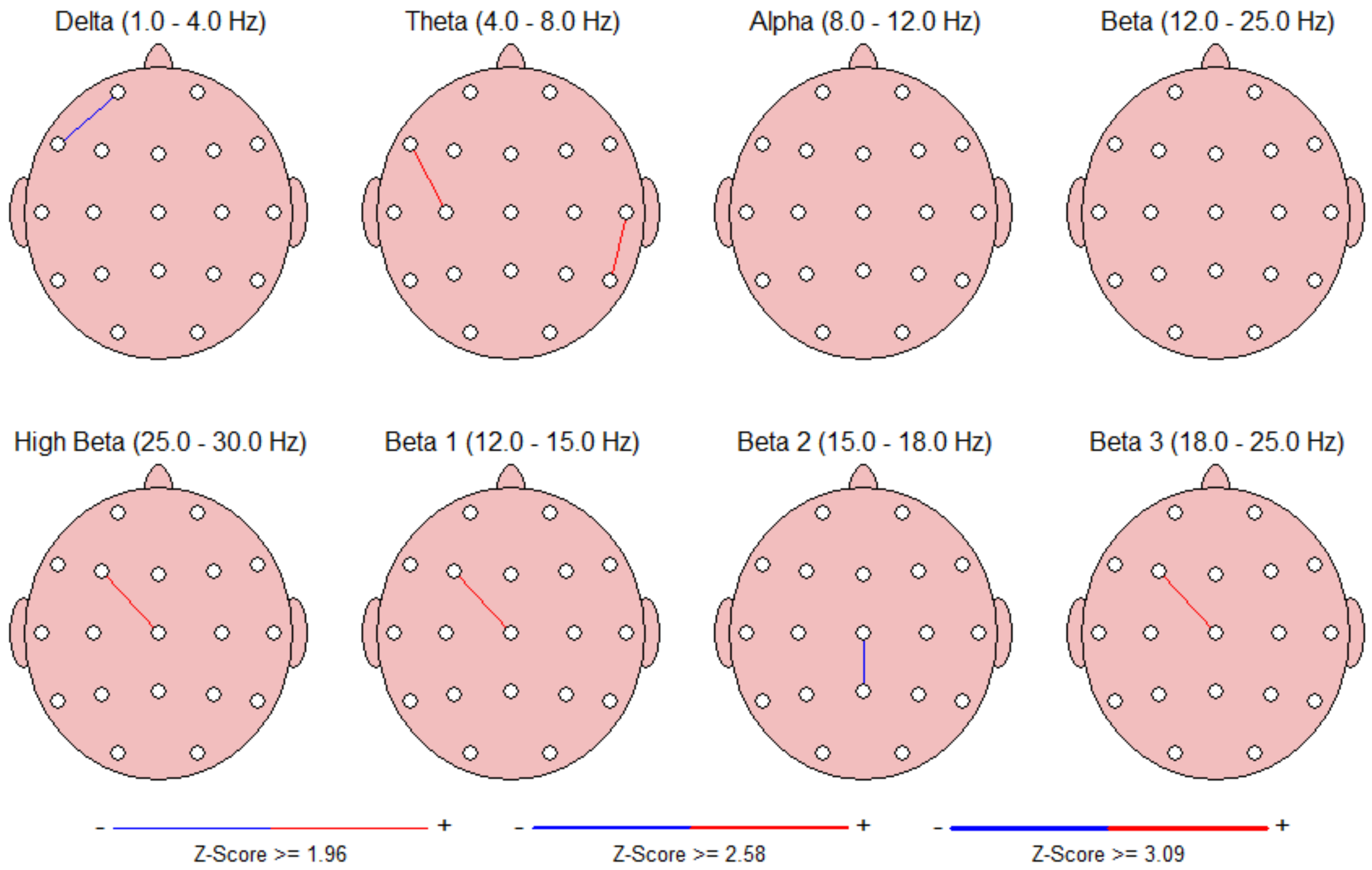




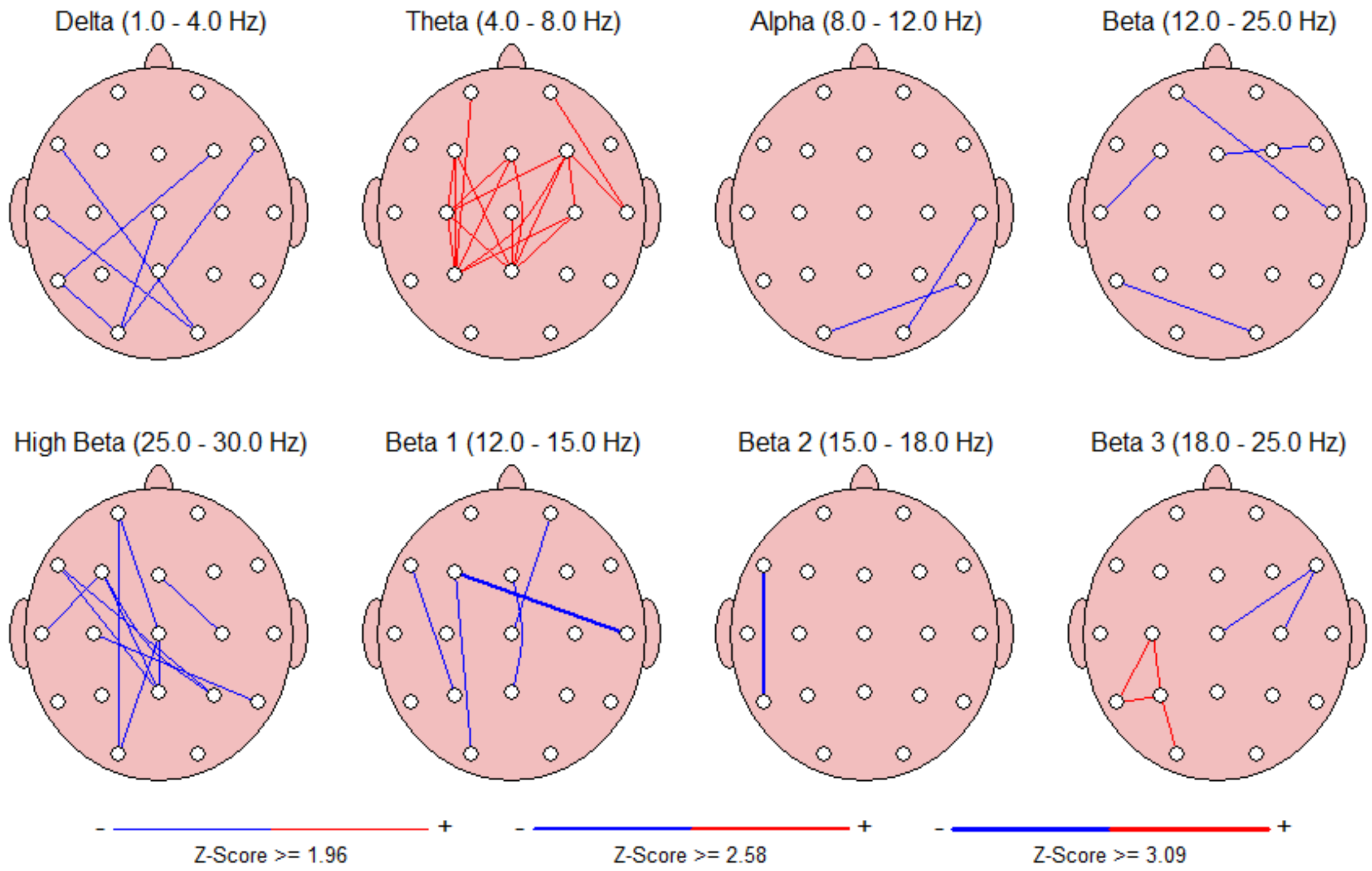
### Z Scored FFT Amplitude Asymmetry



### Z Scored FFT Coherence



### Z Scored FFT Phase Lag



## Peak Frequency (Hz)

## Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
FP1 - LE	1.98	6.22	9.13	16.66	27.10	13.33	16.21	20.31
F7 - LE	2.18	6.07	9.41	16.51	27.12	13.20	16.19	20.45
F3 - LE	2.20	6.27	9.09	16.78	27.14	13.30	16.24	20.32
T3 - LE	2.24	6.04	9.54	16.43	27.17	13.24	16.14	20.57
C3 - LE	2.24	6.27	9.19	16.75	27.00	13.28	16.20	20.44
T5 - LE	2.26	6.32	9.22	16.21	27.11	13.42	16.15	19.93
P3 - LE	2.27	6.29	9.23	16.44	26.95	13.38	16.21	20.00
O1 - LE	2.25	6.06	9.46	16.34	27.00	13.34	16.24	19.89

## Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
FP2 - LE	2.16	6.24	9.14	16.59	27.12	13.37	16.18	20.28
F4 - LE	2.23	6.27	9.13	16.68	27.17	13.37	16.19	20.30
F8 - LE	2.18	6.12	9.40	16.54	27.10	13.38	16.14	20.43
C4 - LE	2.27	6.31	9.19	16.68	27.03	13.37	16.17	20.33
T4 - LE	2.25	6.28	9.37	16.41	27.17	13.40	16.14	20.19
P4 - LE	2.30	6.32	9.27	16.32	26.91	13.41	16.18	19.83
T6 - LE	2.31	6.31	9.42	15.93	26.96	13.31	16.09	19.97
O2 - LE	2.25	6.12	9.48	16.33	26.92	13.30	16.26	19.81

## Intrahemispheric: CENTER

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
Fz - LE	2.22	6.26	9.10	16.80	27.11	13.34	16.24	20.27
Cz - LE	2.23	6.23	9.13	16.89	26.96	13.35	16.25	20.25
Pz - LE	2.26	6.22	9.26	16.50	26.90	13.37	16.28	19.73

### Z Scored Peak Frequency

Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
FP1 - LE	-0.08	1.81	-1.63	-0.94	-0.21	1.43	-0.23	-2.17
F7 - LE	1.41	1.57	-0.64	-1.12	-0.49	0.49	-0.28	-1.81
F3 - LE	1.12	2.06	-1.77	-0.76	0.22	1.09	0.26	-1.68
T3 - LE	1.35	1.42	-0.64	-0.84	-0.14	0.64	-0.98	-0.98
C3 - LE	0.96	2.21	-1.67	-0.46	-0.36	1.06	-0.27	-1.14
T5 - LE	0.96	2.27	-1.63	-0.97	0.05	2.23	-0.68	-2.48
P3 - LE	1.10	2.27	-1.72	-0.59	-0.76	2.17	-0.13	-2.09
O1 - LE	0.81	1.12	-1.04	-0.43	-0.64	1.75	0.35	-2.00

Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
FP2 - LE	1.43	1.97	-1.54	-0.96	-0.05	1.62	-0.62	-2.08
F4 - LE	1.06	1.97	-1.60	-0.86	0.34	1.54	-0.30	-1.71
F8 - LE	1.40	1.79	-0.67	-1.04	-0.07	1.87	-1.13	-1.75
C4 - LE	1.12	2.24	-1.75	-0.54	-0.01	1.70	-0.71	-1.37
T4 - LE	1.47	2.38	-1.30	-0.86	0.03	2.14	-1.00	-2.08
P4 - LE	1.36	2.30	-1.58	-0.67	-0.72	2.30	-0.45	-2.47
T6 - LE	1.46	2.23	-0.96	-1.27	-0.98	1.74	-1.43	-2.19
O2 - LE	0.83	1.63	-1.01	-0.44	-1.11	1.83	0.62	-2.42

Intrahemispheric: CENTER

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
Fz - LE	0.84	1.96	-1.70	-0.54	0.34	1.37	0.35	-1.58
Cz - LE	0.57	2.02	-1.83	-0.32	-0.25	1.47	0.48	-1.49
Pz - LE	1.03	1.87	-1.48	-0.44	-0.79	1.96	0.64	-2.80

### FFT Amplitude Asymmetry

#### Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F7	49.99	1.07	-4.24	15.05
FP1 F3	-17.83	-77.92	-73.92	-69.86
FP1 T3	55.53	4.90	-8.71	-9.71
FP1 C3	-22.29	-90.42	-81.58	-79.19
FP1 T5	17.00	-66.95	-80.74	-98.49
FP1 P3	-30.85	-108.01	-109.93	-119.58
FP1 O1	-2.38	-46.38	-71.14	-106.11
F7 F3	-66.34	-78.83	-70.23	-82.73
F7 T3	5.95	3.83	-4.47	-24.66
F7 C3	-70.32	-91.27	-78.01	-91.51
F7 T5	-33.70	-67.90	-77.16	-109.48
F7 P3	-77.84	-108.77	-106.93	-128.83
F7 O1	-52.21	-47.40	-67.41	-116.50
F3 T3	71.59	82.04	66.28	61.19
F3 C3	-4.51	-15.18	-9.02	-10.83
F3 T5	34.57	12.61	-8.01	-34.57
F3 P3	-13.20	-38.12	-45.18	-62.84
F3 O1	15.47	34.67	3.20	-44.49
T3 C3	-75.49	-94.28	-74.19	-70.85
T3 T5	-39.46	-71.27	-73.32	-90.95
T3 P3	-82.83	-111.44	-103.70	-113.16
T3 O1	-57.72	-50.99	-63.42	-98.95
C3 T5	38.92	27.66	1.01	-23.97
C3 P3	-8.71	-23.28	-36.54	-52.92
C3 O1	19.94	49.20	12.21	-34.07
T5 P3	-47.23	-50.13	-37.51	-29.90
T5 O1	-19.36	22.30	11.21	-10.31
P3 O1	28.52	70.46	48.21	19.74

#### Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA
FP2 F4	-57.62	-79.36	-67.97	-68.39
FP2 F8	15.45	11.50	23.39	10.65
FP2 C4	-71.94	-99.94	-77.43	-85.69
FP2 T4	-10.08	-33.11	-22.47	-52.94
FP2 P4	-77.86	-107.24	-100.87	-120.91
FP2 T6	-49.79	-77.25	-84.09	-101.29
FP2 O2	-58.86	-56.93	-84.79	-111.79
F4 F8	71.48	88.83	87.86	77.62
F4 C4	-15.97	-25.67	-10.89	-20.27
F4 T4	48.24	49.50	47.30	16.99
F4 P4	-22.80	-35.41	-39.71	-66.20
F4 T6	8.44	2.49	-18.81	-39.79
F4 O2	-1.35	25.28	-19.65	-53.66
F8 C4	-85.02	-108.33	-96.45	-94.19
F8 T4	-25.43	-44.19	-45.27	-62.70
F8 P4	-90.59	-115.19	-117.34	-127.45
F8 T6	-64.00	-86.83	-102.44	-109.00
F8 O2	-72.65	-67.33	-103.06	-118.90
C4 T4	63.00	72.86	57.45	36.94
C4 P4	-6.89	-9.97	-29.13	-47.53
C4 T6	24.33	28.11	-7.96	-19.92
C4 O2	14.63	50.13	-8.81	-34.31
T4 P4	-69.14	-81.35	-83.11	-80.92
T4 T6	-40.21	-47.16	-64.68	-55.84
T4 O2	-49.51	-25.00	-65.43	-69.07
P4 T6	31.09	37.82	21.29	28.28
P4 O2	21.47	59.37	20.46	13.77
T6 O2	-9.78	22.83	-0.84	-14.64

#### Interhemispheric: HOMOLOGOUS PAIRS

	DELTA	THETA	ALPHA	BETA
FP1 FP2	46.01	-0.43	-2.22	-2.08
F3 F4	5.43	-2.14	4.58	-0.40
C3 C4	-6.07	-12.72	2.71	-9.90
P3 P4	-4.25	0.66	10.31	-4.15

	DELTA	THETA	ALPHA	BETA
F7 F8	11.25	10.00	25.38	-6.49
T3 T4	-20.20	-38.27	-16.05	-45.77
T5 T6	-20.97	-12.27	-6.26	-5.81
O1 O2	-11.41	-11.73	-18.28	-10.15



### Z Scored FFT Amplitude Asymmetry

#### Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F7	1.11	-1.08	-1.10	-0.29
FP1 F3	-0.49	-2.37	-2.98	-1.94
FP1 T3	-0.00	-0.91	-0.77	-0.29
FP1 C3	-0.92	-2.33	-1.59	-1.09
FP1 T5	-0.76	-2.36	-0.99	-1.70
FP1 P3	-0.93	-2.29	-1.15	-1.64
FP1 O1	-0.49	-0.78	0.20	-1.19
F7 F3	-1.17	-1.58	-1.47	-1.56
F7 T3	-0.60	-0.43	-0.31	-0.15
F7 C3	-1.49	-2.09	-0.98	-1.22
F7 T5	-1.40	-1.89	-0.59	-1.79
F7 P3	-1.29	-1.86	-0.76	-1.73
F7 O1	-1.00	-0.34	0.47	-1.05
F3 T3	0.46	0.73	0.53	0.69
F3 C3	-0.61	-1.16	0.04	0.20
F3 T5	-0.30	-0.83	0.10	-0.87
F3 P3	-0.62	-1.40	-0.23	-1.05
F3 O1	-0.07	0.72	1.25	-0.30
T3 C3	-0.88	-1.22	-0.53	-0.67
T3 T5	-0.68	-1.38	-0.38	-1.46
T3 P3	-0.96	-1.59	-0.61	-1.33
T3 O1	-0.49	0.04	0.66	-0.84
C3 T5	0.32	-0.16	0.09	-1.10
C3 P3	-0.33	-1.07	-0.27	-1.73
C3 O1	0.48	1.38	1.31	-0.37
T5 P3	-0.53	-1.00	-0.48	-0.31
T5 O1	0.29	2.20	1.57	0.66
P3 O1	0.77	2.40	2.09	0.90

#### Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA
FP2 F4	-1.61	-1.77	-1.65	-1.37
FP2 F8	-0.23	-0.48	-0.06	-0.43
FP2 C4	-2.15	-2.12	-1.24	-1.05
FP2 T4	-2.08	-2.77	-1.69	-1.30
FP2 P4	-2.01	-2.14	-0.88	-1.40
FP2 T6	-2.39	-2.26	-0.80	-1.57
FP2 O2	-1.66	-0.95	-0.14	-1.15
F4 F8	1.20	1.45	2.05	1.85
F4 C4	-1.03	-1.80	-0.01	-0.24
F4 T4	-0.81	-1.30	-0.35	-0.63
F4 P4	-0.99	-1.56	0.02	-1.25
F4 T6	-1.25	-1.26	0.08	-1.09
F4 O2	-0.50	0.36	0.70	-0.62
F8 C4	-1.66	-1.96	-1.29	-1.19
F8 T4	-2.11	-2.78	-1.74	-1.24
F8 P4	-1.58	-1.87	-0.85	-1.69
F8 T6	-1.93	-2.01	-0.79	-1.86
F8 O2	-1.38	-0.70	-0.17	-1.22
C4 T4	0.13	-0.16	-0.30	-0.44
C4 P4	-0.13	-1.01	0.05	-1.97
C4 T6	-0.32	-0.33	0.10	-1.07
C4 O2	0.28	1.23	0.76	-0.57
T4 P4	-0.19	-0.23	0.15	-0.48
T4 T6	-0.36	-0.14	0.19	-0.41
T4 O2	0.08	1.15	0.65	-0.21
P4 T6	-0.26	0.13	0.10	0.22
P4 O2	0.48	2.18	1.13	0.55
T6 O2	0.67	2.17	1.05	0.35

#### Interhemispheric: HOMOLOGOUS PAIRS

	DELTA	THETA	ALPHA	BETA
FP1 FP2	1.45	0.19	0.12	0.04
F3 F4	0.24	-0.02	0.50	-0.03
C3 C4	-0.27	-0.79	0.36	-0.72
P3 P4	0.05	0.14	0.68	-0.21

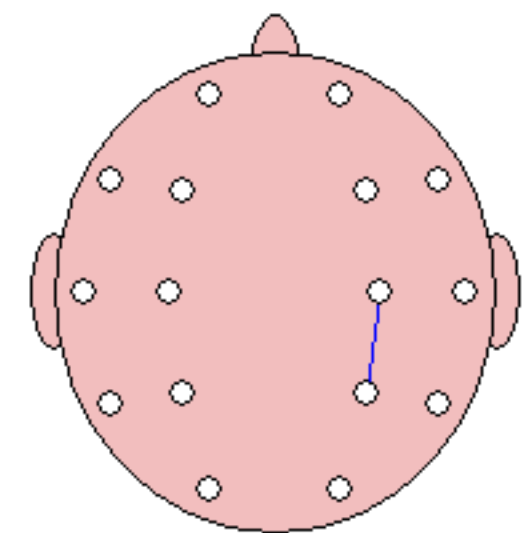
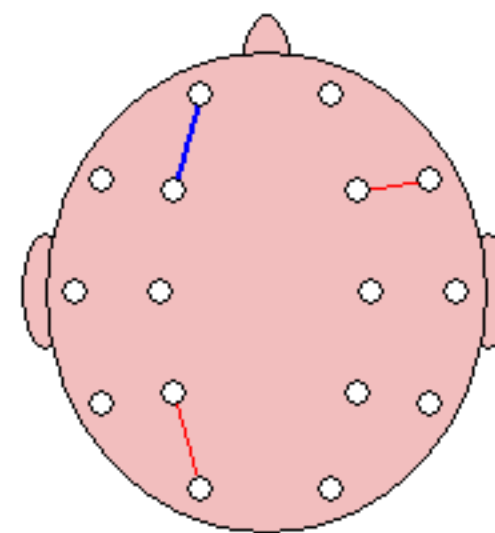
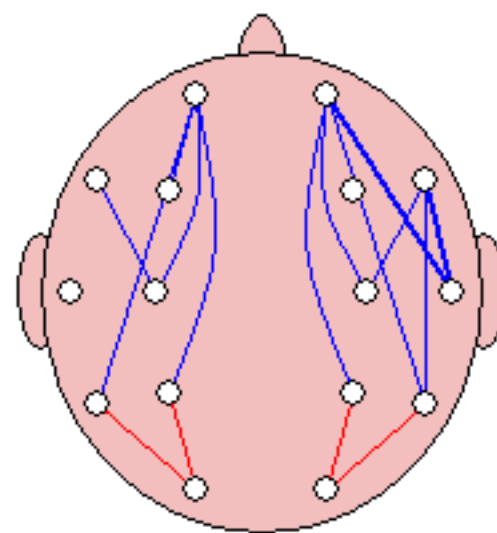
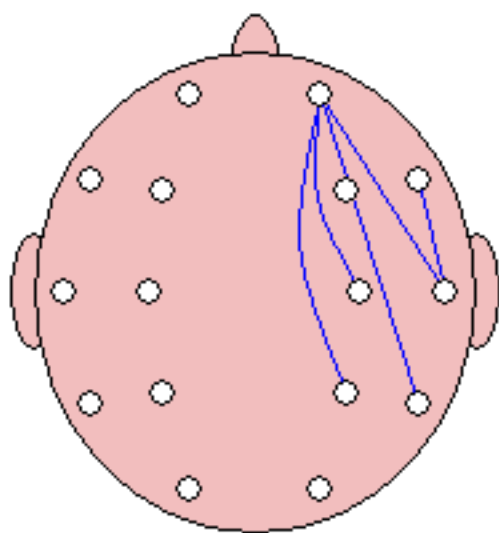
	DELTA	THETA	ALPHA	BETA
F7 F8	0.27	0.25	1.00	-0.24
T3 T4	-0.79	-1.45	-0.61	-1.52
T5 T6	-0.88	-0.73	0.17	-0.15
O1 O2	-0.48	-0.71	-0.66	-0.80

Delta (1.0 - 4.0 Hz)

Theta (4.0 - 8.0 Hz)

Alpha (8.0 - 12.0 Hz)

Beta (12.0 - 25.0 Hz)



- ———— +  
Z-Score >= 1.96

- ———— +  
Z-Score >= 2.58

- ———— +  
Z-Score >= 3.09



### FFT Coherence

#### Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F7	18.39	63.91	57.12	63.22
FP1 F3	28.26	79.90	87.90	82.46
FP1 T3	14.00	32.14	23.10	13.27
FP1 C3	22.76	56.37	55.97	44.22
FP1 T5	7.21	12.06	10.11	0.44
FP1 P3	15.44	26.45	16.71	5.47
FP1 O1	5.45	9.62	2.10	0.07
F7 F3	53.00	70.65	55.26	68.69
F7 T3	72.94	73.89	71.51	55.24
F7 C3	45.64	62.04	49.02	55.70
F7 T5	31.98	23.09	16.53	6.53
F7 P3	28.03	33.57	20.81	18.38
F7 O1	12.77	9.80	3.03	2.33
F3 T3	57.00	48.16	30.42	22.93
F3 C3	87.60	84.83	78.68	73.17
F3 T5	51.26	25.29	14.27	1.22
F3 P3	63.18	48.37	30.98	18.82
F3 O1	42.23	20.21	6.49	2.20
T3 C3	62.45	63.70	51.91	44.37
T3 T5	60.44	55.72	50.62	44.53
T3 P3	50.20	54.80	46.12	43.85
T3 O1	29.73	24.39	15.44	17.57
C3 T5	72.78	54.38	43.76	26.87
C3 P3	87.21	80.80	71.52	63.52
C3 O1	60.83	42.51	28.34	22.32
T5 P3	84.20	83.13	81.68	73.95
T5 O1	73.22	67.92	59.94	60.39
P3 O1	79.60	74.02	67.87	65.89

#### Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA
FP2 F4	52.09	83.90	89.63	83.03
FP2 F8	59.08	74.36	68.53	71.99
FP2 C4	36.04	56.52	56.03	44.39
FP2 T4	27.96	23.00	11.23	7.43
FP2 P4	20.24	24.17	12.35	7.38
FP2 T6	15.15	10.29	4.92	0.01
FP2 O2	11.46	11.16	2.36	0.41
F4 F8	59.76	77.16	69.19	73.88
F4 C4	83.95	82.14	76.50	72.31
F4 T4	53.00	38.37	18.82	16.29
F4 P4	58.21	42.35	23.22	20.99
F4 T6	44.31	21.83	7.02	3.33
F4 O2	41.36	21.20	5.71	4.62
F8 C4	46.56	64.73	56.94	53.85
F8 T4	54.27	49.83	36.30	32.20
F8 P4	26.61	32.32	19.14	15.80
F8 T6	25.12	20.79	8.15	5.53
F8 O2	13.61	13.08	4.11	2.51
C4 T4	67.01	66.69	49.22	40.74
C4 P4	84.31	78.12	65.15	65.21
C4 T6	71.14	55.52	35.16	32.88
C4 O2	64.05	47.06	27.81	26.40
T4 P4	60.38	68.87	58.96	41.79
T4 T6	68.97	77.90	69.29	50.33
T4 O2	42.64	42.09	30.48	18.46
P4 T6	86.88	83.17	76.54	71.38
P4 O2	85.59	79.39	73.28	68.97
T6 O2	79.74	69.87	63.76	59.05

#### Interhemispheric: HOMOLOGOUS PAIRS

	DELTA	THETA	ALPHA	BETA
FP1 FP2	57.85	84.52	90.33	88.37
F3 F4	74.98	79.46	86.10	76.31
C3 C4	70.02	56.87	58.98	41.54
P3 P4	69.45	47.74	44.49	28.48

	DELTA	THETA	ALPHA	BETA
F7 F8	9.24	20.28	9.89	18.52
T3 T4	9.77	3.93	0.98	0.36
T5 T6	36.05	15.13	11.79	1.41
O1 O2	84.88	72.57	66.32	57.49

### Z Scored FFT Coherence

#### Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F7	-2.44	0.17	-0.83	0.26
FP1 F3	-1.79	0.83	0.62	0.73
FP1 T3	-0.61	0.76	0.05	0.12
FP1 C3	-0.49	1.44	0.66	0.99
FP1 T5	-0.23	0.66	0.46	-1.21
FP1 P3	0.20	1.19	0.32	-0.43
FP1 O1	0.03	0.91	-1.03	-1.66
F7 F3	0.31	0.83	-1.24	0.47
F7 T3	1.63	1.80	1.38	1.27
F7 C3	1.31	1.98	0.24	1.55
F7 T5	1.73	1.10	0.92	-0.28
F7 P3	1.55	1.61	0.67	0.74
F7 O1	1.33	0.88	-0.71	-0.37
F3 T3	0.93	0.63	-0.41	-0.02
F3 C3	1.30	1.32	0.71	1.11
F3 T5	1.51	0.43	0.21	-1.40
F3 P3	1.50	0.91	0.28	-0.27
F3 O1	1.64	0.69	-0.48	-0.79
T3 C3	0.81	0.71	-0.02	0.21
T3 T5	0.96	0.57	0.59	0.27
T3 P3	0.74	0.83	0.49	0.64
T3 O1	0.51	0.30	-0.02	0.29
C3 T5	1.00	0.48	0.41	-0.71
C3 P3	1.09	0.81	0.43	-0.06
C3 O1	1.00	0.48	0.17	-0.18
T5 P3	0.76	0.76	0.61	0.26
T5 O1	0.42	-0.10	-0.98	-0.28
P3 O1	0.63	0.42	-0.11	0.02

#### Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA
FP2 F4	-0.05	1.27	0.77	0.89
FP2 F8	0.69	1.12	-0.06	1.05
FP2 C4	0.59	1.32	0.61	1.03
FP2 T4	0.51	-0.06	-0.81	-0.57
FP2 P4	0.78	0.85	-0.25	-0.17
FP2 T6	0.78	0.66	-0.45	-1.59
FP2 O2	0.81	1.17	-0.89	-0.90
F4 F8	0.72	1.17	-0.13	0.91
F4 C4	1.24	1.05	0.42	0.95
F4 T4	0.68	-0.15	-1.09	-0.55
F4 P4	1.26	0.41	-0.28	-0.32
F4 T6	1.27	0.32	-0.53	-0.64
F4 O2	1.62	0.81	-0.81	-0.19
F8 C4	1.11	1.58	0.59	1.33
F8 T4	0.68	0.25	-0.49	-0.05
F8 P4	1.31	1.30	0.22	0.47
F8 T6	1.22	1.02	-0.16	-0.01
F8 O2	1.13	1.31	-0.38	0.04
C4 T4	0.91	0.92	-0.12	0.18
C4 P4	0.82	0.56	-0.17	-0.04
C4 T6	1.12	0.71	0.19	0.06
C4 O2	1.08	0.78	-0.02	0.11
T4 P4	1.33	1.91	1.30	0.84
T4 T6	1.50	1.97	1.67	0.83
T4 O2	1.27	1.59	1.08	0.59
P4 T6	1.19	1.22	0.76	0.63
P4 O2	0.88	0.81	0.19	0.26
T6 O2	0.96	0.36	-0.47	-0.22

#### Interhemispheric: HOMOLOGOUS PAIRS

	DELTA	THETA	ALPHA	BETA
FP1 FP2	-0.24	1.17	0.89	1.36
F3 F4	1.00	1.29	1.02	1.74
C3 C4	0.55	-0.08	0.26	0.32
P3 P4	0.14	-1.22	-0.86	-1.59

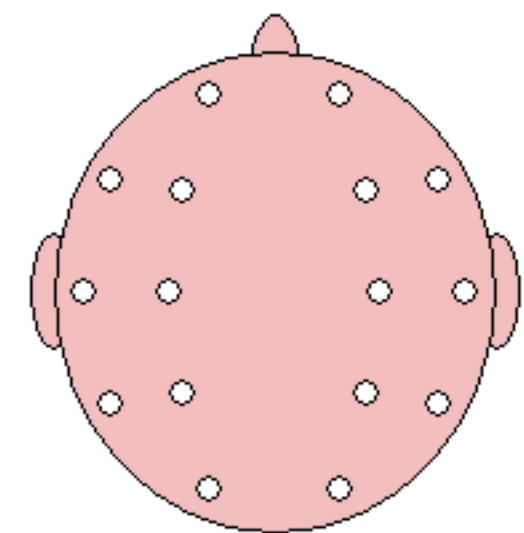
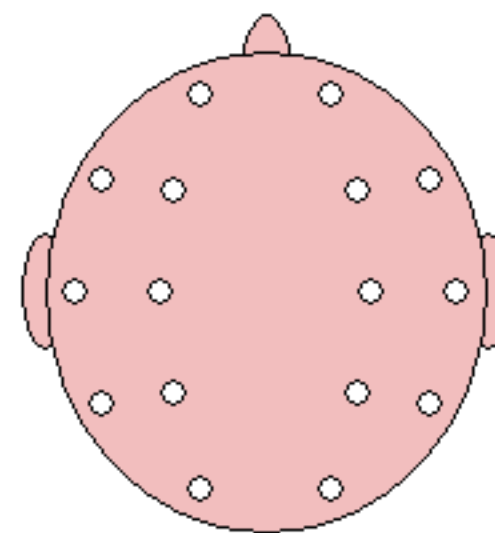
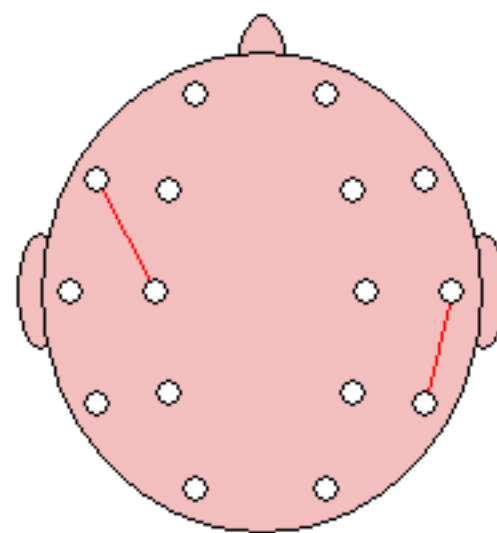
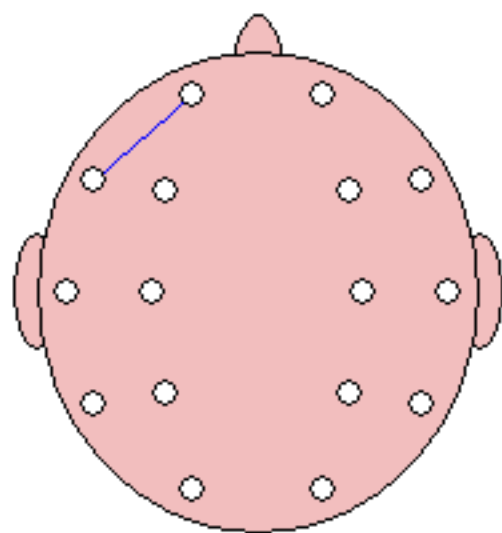
	DELTA	THETA	ALPHA	BETA
F7 F8	0.53	1.30	-0.40	1.04
T3 T4	0.31	0.31	-0.77	-0.88
T5 T6	0.05	-0.52	-0.31	-1.25
O1 O2	0.76	0.20	-0.19	-0.41

Delta (1.0 - 4.0 Hz)

Theta (4.0 - 8.0 Hz)

Alpha (8.0 - 12.0 Hz)

Beta (12.0 - 25.0 Hz)



- ———— +  
Z-Score >= 1.96

- ———— +  
Z-Score >= 2.58

- ———— +  
Z-Score >= 3.09

### FFT Phase Lag (Deg)

#### Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F7	-2.63	3.31	4.60	2.70
FP1 F3	4.22	6.50	3.53	0.59
FP1 T3	1.18	16.96	25.24	0.79
FP1 C3	8.32	16.06	14.35	-3.75
FP1 T5	5.88	54.94	84.20	-170.00
FP1 P3	11.09	31.77	40.88	-16.00
FP1 O1	13.31	43.72	64.18	-140.13
F7 F3	3.81	3.27	1.37	-1.86
F7 T3	1.24	9.79	15.35	1.82
F7 C3	4.63	11.82	13.64	-2.81
F7 T5	3.98	32.73	51.26	-5.56
F7 P3	4.23	23.15	34.35	-6.15
F7 O1	3.28	29.85	54.42	-18.29
F3 T3	-3.26	8.83	15.38	-0.19
F3 C3	0.35	8.29	8.65	-3.53
F3 T5	-1.50	32.73	54.26	-28.66
F3 P3	-0.59	19.23	26.07	-12.14
F3 O1	-0.90	22.55	26.37	-24.21
T3 C3	3.79	-0.64	-2.27	1.75
T3 T5	1.82	10.70	15.34	-5.81
T3 P3	2.64	6.26	9.84	-0.63
T3 O1	1.42	4.41	12.20	-12.95
C3 T5	-1.99	15.10	21.85	-15.34
C3 P3	-0.96	7.68	10.96	-6.60
C3 O1	-1.80	5.88	7.85	-17.29
T5 P3	1.28	-4.91	-4.80	9.30
T5 O1	-0.03	-6.66	-1.94	-3.87
P3 O1	-1.55	-3.06	-0.62	-11.94

#### Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA
FP2 F4	-1.64	4.77	2.40	1.00
FP2 F8	-3.35	2.97	2.00	2.11
FP2 C4	-0.35	14.16	10.13	-2.20
FP2 T4	-5.46	26.01	40.50	3.09
FP2 P4	-2.70	28.49	32.18	-11.10
FP2 T6	-6.28	42.70	84.45	-17.31
FP2 O2	-2.99	38.93	48.64	-28.73
F4 F8	-3.08	-1.40	-0.28	0.00
F4 C4	-1.61	7.85	5.76	-2.51
F4 T4	-7.83	15.86	25.57	-3.84
F4 P4	-4.67	17.62	18.80	-7.85
F4 T6	-8.45	21.53	45.69	-16.86
F4 O2	-4.13	21.23	17.70	-13.51
F8 C4	2.64	9.13	6.83	-0.30
F8 T4	-1.73	13.14	16.23	0.76
F8 P4	-1.18	19.00	20.10	-1.10
F8 T6	-4.52	19.28	32.69	-3.42
F8 O2	-3.18	25.21	24.43	-8.66
C4 T4	-6.27	5.32	10.94	-8.04
C4 P4	-2.46	7.27	8.26	-3.01
C4 T6	-6.36	6.31	13.87	-14.65
C4 O2	-2.34	7.80	4.75	-8.30
T4 P4	3.89	2.87	0.86	10.34
T4 T6	-0.54	0.54	1.72	-1.62
T4 O2	2.72	3.42	0.13	2.76
P4 T6	-4.40	-1.83	0.63	-13.43
P4 O2	-1.09	-0.34	-1.09	-5.96
T6 O2	2.52	1.04	-1.66	5.76

#### Interhemispheric: HOMOLOGOUS PAIRS

	DELTA	THETA	ALPHA	BETA
FP1 FP2	-8.85	-1.54	-1.40	-0.10
F3 F4	-1.54	-3.53	-1.61	-1.01
C3 C4	-2.73	-5.24	-4.07	-2.61
P3 P4	-3.56	-4.79	-3.33	-2.77

	DELTA	THETA	ALPHA	BETA
F7 F8	-6.01	-2.18	-3.89	-3.67
T3 T4	-10.91	2.82	76.46	-144.86
T5 T6	-6.91	-12.87	-4.22	-32.60
O1 O2	-1.87	-2.17	-2.28	2.04

### Z Scored FFT Phase Lag

#### Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F7	0.04	0.82	1.21	0.75
FP1 F3	0.84	1.09	1.09	-0.83
FP1 T3	-1.45	1.36	1.16	-1.37
FP1 C3	0.95	1.71	1.10	-0.02
FP1 T5	-0.35	1.41	0.51	1.57
FP1 P3	0.78	2.24	0.67	0.60
FP1 O1	0.24	0.91	0.10	1.13
F7 F3	0.47	0.58	-0.11	0.24
F7 T3	-0.84	1.87	1.35	-0.58
F7 C3	0.16	1.55	1.29	-0.10
F7 T5	-0.44	1.26	0.49	-0.46
F7 P3	-0.23	1.46	0.69	-0.01
F7 O1	-1.18	0.51	0.06	-0.21
F3 T3	-0.53	0.86	1.13	-2.05
F3 C3	-1.37	2.50	1.16	0.45
F3 T5	-1.12	1.66	0.58	0.89
F3 P3	-1.45	2.12	0.79	0.90
F3 O1	-1.64	1.11	-0.20	0.36
T3 C3	-0.11	-1.54	-0.37	-0.47
T3 T5	-0.47	1.58	1.04	0.73
T3 P3	-0.80	0.85	0.91	-1.77
T3 O1	-1.67	0.10	0.24	0.62
C3 T5	-0.43	1.56	0.74	1.20
C3 P3	-0.48	2.17	0.92	1.20
C3 O1	-0.54	0.69	-0.35	1.16
T5 P3	-0.28	1.04	0.23	1.71
T5 O1	-2.12	1.90	-0.38	0.72
P3 O1	-0.08	0.77	-1.32	1.64

#### Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA
FP2 F4	-0.29	0.43	0.38	-0.50
FP2 F8	0.31	0.95	0.14	0.35
FP2 C4	-1.62	1.44	0.81	-0.29
FP2 T4	0.34	2.14	1.81	-0.42
FP2 P4	-0.61	1.42	0.49	0.36
FP2 T6	-0.33	0.80	0.35	-0.34
FP2 O2	-1.20	0.58	0.02	-0.09
F4 F8	0.01	-0.76	-1.33	-1.56
F4 C4	0.10	2.03	0.69	0.12
F4 T4	0.76	1.98	1.58	-0.17
F4 P4	0.51	1.91	0.34	0.48
F4 T6	0.81	1.22	0.28	0.25
F4 O2	-0.17	0.90	-0.42	0.06
F8 C4	-0.43	1.05	0.62	-1.42
F8 T4	-0.34	1.88	1.23	-0.95
F8 P4	-1.45	1.28	0.30	-1.40
F8 T6	-0.29	0.55	0.01	-0.87
F8 O2	-1.09	0.15	-0.54	-0.64
C4 T4	0.42	0.60	1.33	0.60
C4 P4	0.62	1.73	0.57	0.44
C4 T6	0.99	0.65	0.10	1.02
C4 O2	-0.02	0.80	-0.76	0.59
T4 P4	-0.26	0.09	-1.30	1.16
T4 T6	-1.95	-1.37	-1.38	-0.63
T4 O2	-1.01	-0.42	-2.13	-0.96
P4 T6	0.90	-0.26	-1.86	1.79
P4 O2	-0.31	-1.18	-1.16	1.14
T6 O2	0.31	-0.52	-0.87	0.91

#### Interhemispheric: HOMOLOGOUS PAIRS

	DELTA	THETA	ALPHA	BETA
FP1 FP2	1.84	0.34	0.20	-1.38
F3 F4	-0.26	0.82	0.04	-0.43
C3 C4	0.53	1.53	0.60	0.27
P3 P4	0.90	1.65	0.32	0.43

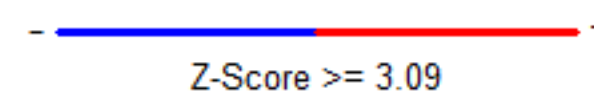
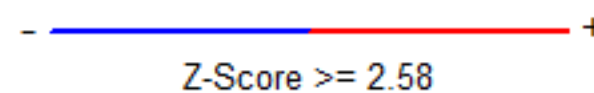
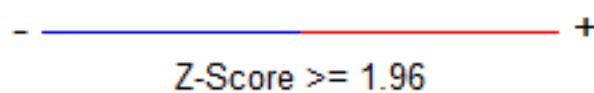
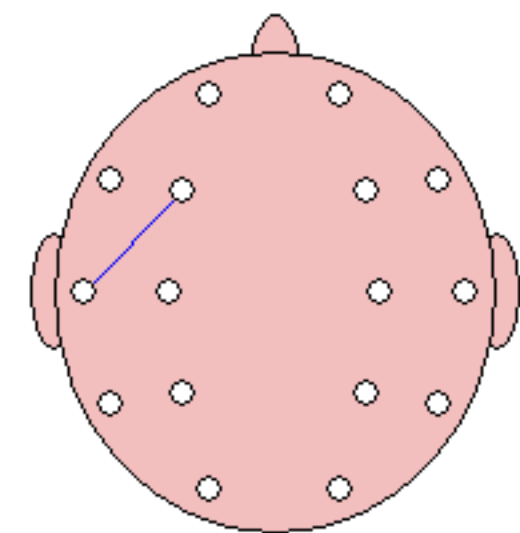
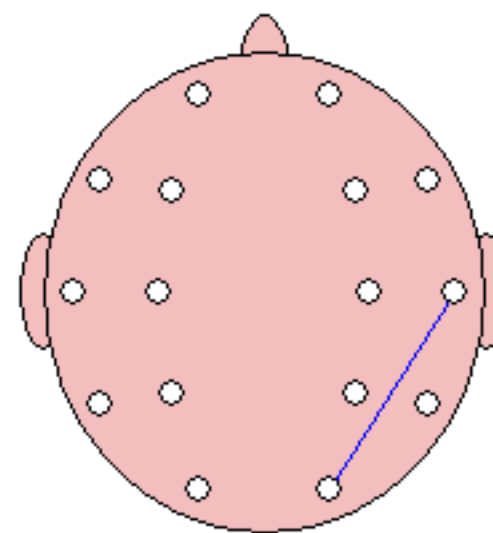
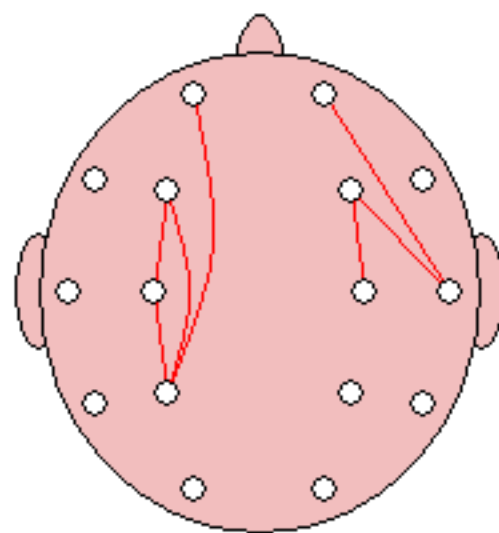
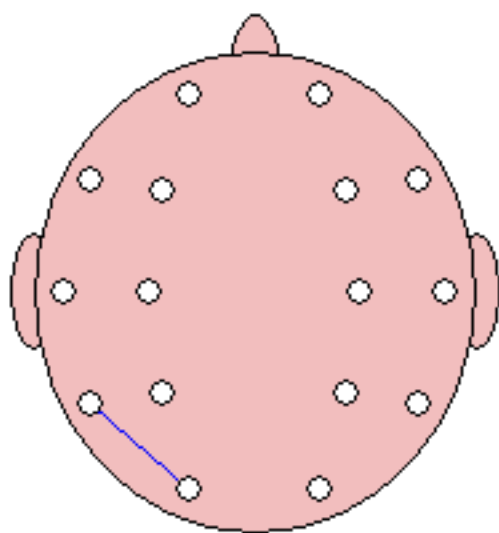
	DELTA	THETA	ALPHA	BETA
F7 F8	-0.61	-0.79	-0.42	-0.24
T3 T4	-0.04	-1.47	0.34	0.64
T5 T6	0.68	0.95	-0.90	1.18
O1 O2	0.19	0.61	-0.06	0.08

Delta (1.0 - 4.0 Hz)

Theta (4.0 - 8.0 Hz)

Alpha (8.0 - 12.0 Hz)

Beta (12.0 - 25.0 Hz)



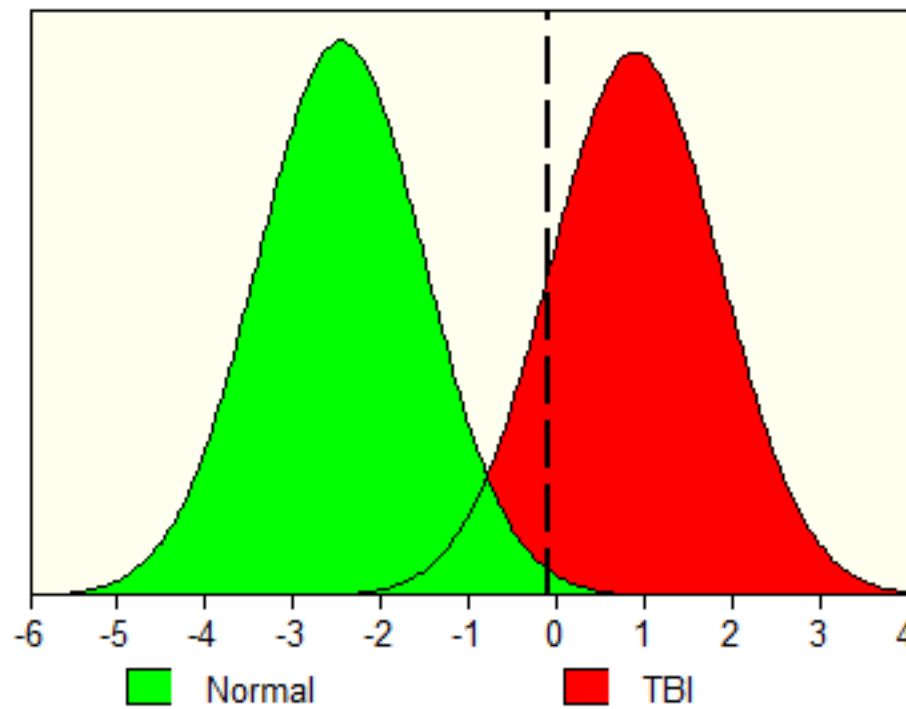


## Traumatic Brain Injury Discriminant Analysis\*

TBI DISCRIMINANT SCORE = -0.11

TBI PROBABILITY INDEX = 90.0%

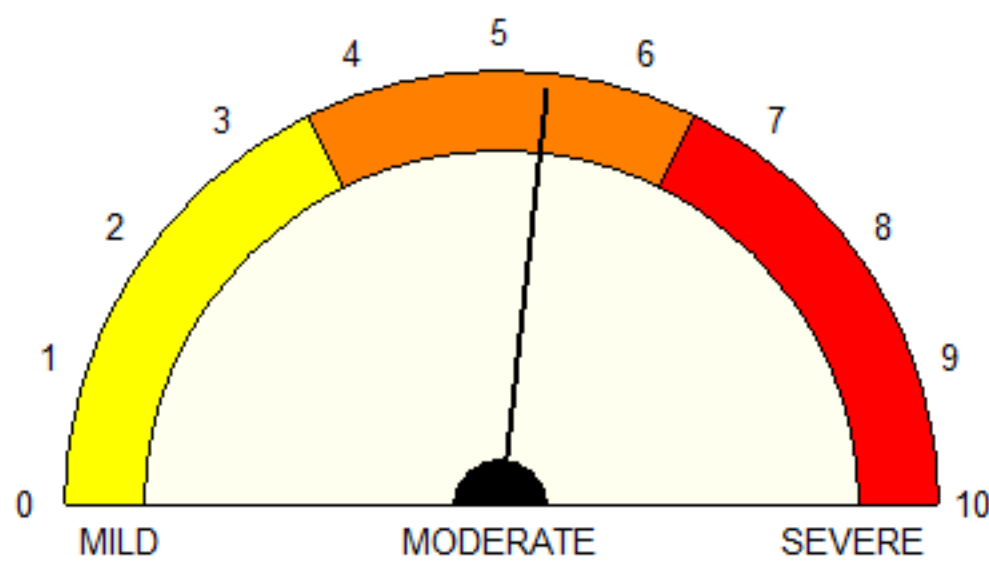
The TBI Probability Index is the subject's probability of membership in the mild traumatic brain injury population. (see Thatcher et al, EEG and Clin. Neurophysiol., 73: 93-106, 1989.)



			RAW	Z
FP1-F3	COH	Theta	80.28	-0.40
T3-T5	COH	Beta	52.14	0.05
C3-P3	COH	Beta	78.93	-0.20
FP2-F4	PHA	Beta	-0.11	-0.99
F3-F4	PHA	Beta	0.17	-0.70
F4-T6	AMP	Alpha	-23.23	0.01
F8-T6	AMP	Alpha	-97.64	-0.55
F4-T6	AMP	Beta	-37.51	-1.60
F8-T6	AMP	Beta	-101.29	-1.84
F3-O1	AMP	Alpha	-1.95	1.21
F4-O2	AMP	Alpha	-22.53	0.71
F7-O1	AMP	Alpha	-65.83	0.94
F4-O2	AMP	Beta	-51.61	-0.63
P3	RP	Alpha	35.29	-1.38
P4	RP	Alpha	32.66	-1.65
O1	RP	Alpha	32.41	-1.88
O2	RP	Alpha	33.62	-2.00
T4	RP	Alpha	29.62	-1.16
T5	RP	Alpha	34.66	-1.56
T6	RP	Alpha	35.78	-1.60

TBI SEVERITY INDEX = 5.36

This severity score places the patient in the MODERATE range of severity.



			RAW	Z
FP1-C3	COH	Delta	52.38	-0.04
FP1-FP2	COH	Theta	91.59	1.02
O1-F7	COH	Alpha	15.62	-1.01
O2-T6	COH	Alpha	79.57	-0.42
P3-O1	COH	Beta	81.41	0.78
FP1-T3	PHA	Theta	-4.13	0.55
T3-T4	PHA	Theta	5.04	-0.55
O1-F7	PHA	Alpha	-11.45	0.06
F7-F8	PHA	Alpha	1.65	-0.08
T5-T6	PHA	Beta	3.37	0.80
C3-F7	AMP	Delta	-49.62	-0.23
FP2-F4	AMP	Delta	17.71	0.57
C4-F8	AMP	Delta	-48.85	-0.30
O1-O2	AMP	Theta	-14.67	-1.05
P3-F7	AMP	Alpha	-102.73	-0.10
FP2-P4	AMP	Alpha	-96.96	-0.46

The TBI Severity Index is an estimate of the neurological severity of injury. (see Thatcher et al, J. Neuropsychiatry and Clinical Neuroscience, 13(1): 77-87, 2001.)

**\*Statement of Indications of Use:**

The Discriminant Analysis and Severity Index are to be used by experienced and qualified professionals for the post-hoc statistical evaluation of the human electroencephalogram (EEG). The Discriminant Analysis and Severity Index are to be viewed as an adjunct to the evaluation of the patient, and they do not serve as a primary basis for a diagnosis. Warning: Inclusion criteria of a history of traumatic brain injury and greater than 13 years of age must be adhered to.