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Group ICA Parameters

.....

Number of Subjects : 365

Number of Sessions : 1

Number of Independent Components : 100

ICA Algorithm : Infomax

Number Of Scans/Timepoints : 171

Mask File : Default Mask Created From Functional Data

Data Pre-processing Type : Variance Normalization

PCA Type : Standard

Group PCA Type : Subject Specific

Group ICA Type : Spatial

Back Reconstruction Type : GICA

Scaling Components : Z-scores

Stability analysis type : ICASSO

Group analysis mode: Serial

*Anatomical file: /export/mialab/users/zfu/Matlab/Toolbox/
GroupICATv4.0a/GroupICATv4.0a/icatb/icatb_templates/ch2bet.nii
Slice Plane: Axial*

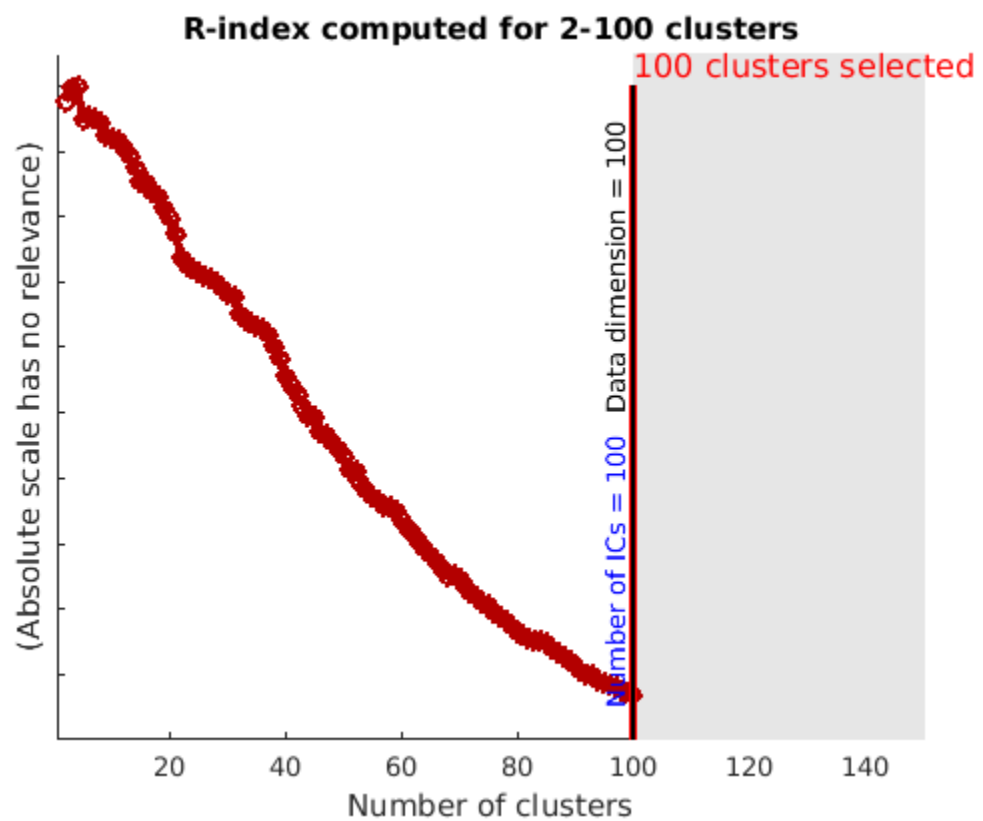
Image values: Positive

Convert to Z-scores: yes

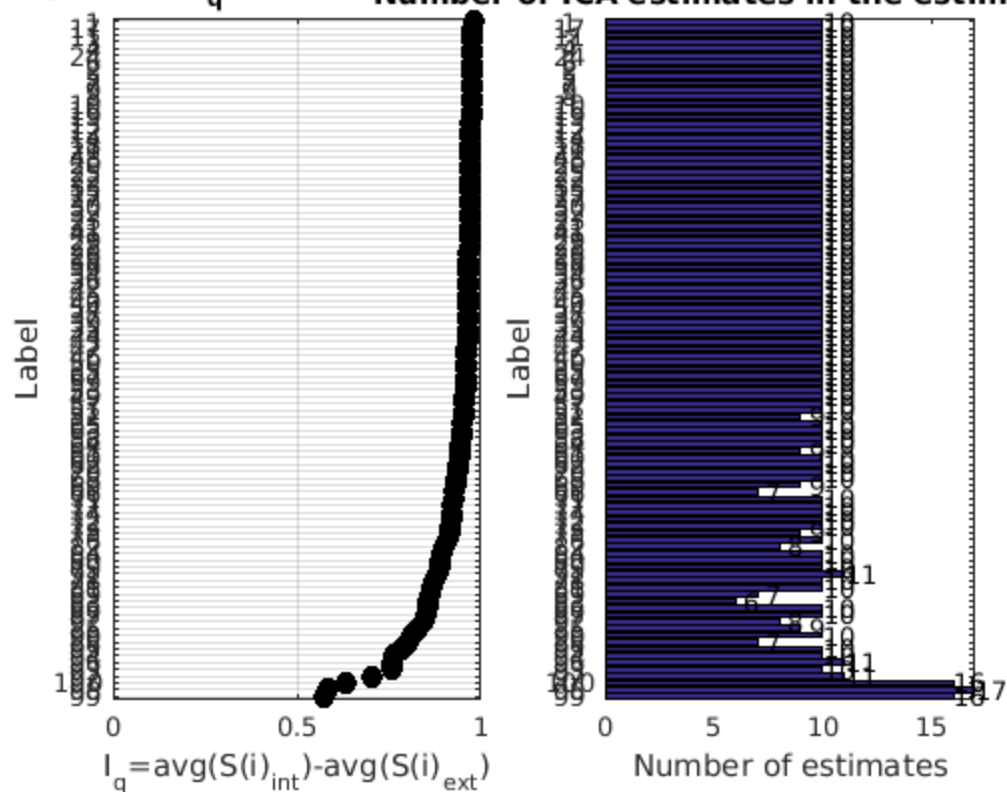
Threshold: 1

.....

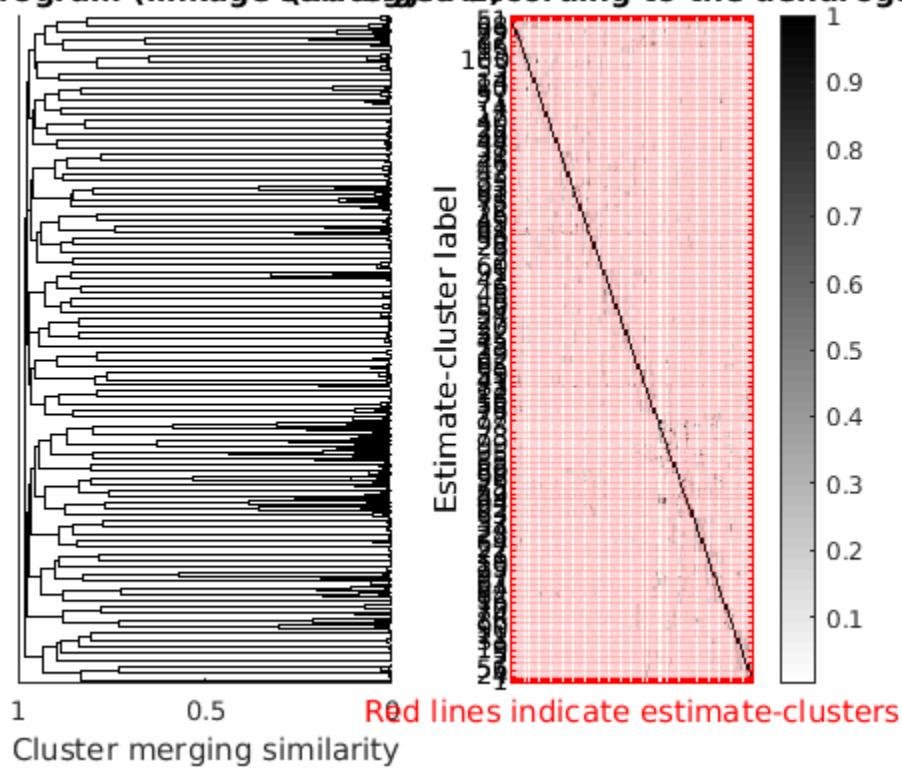
ICASSO Plots

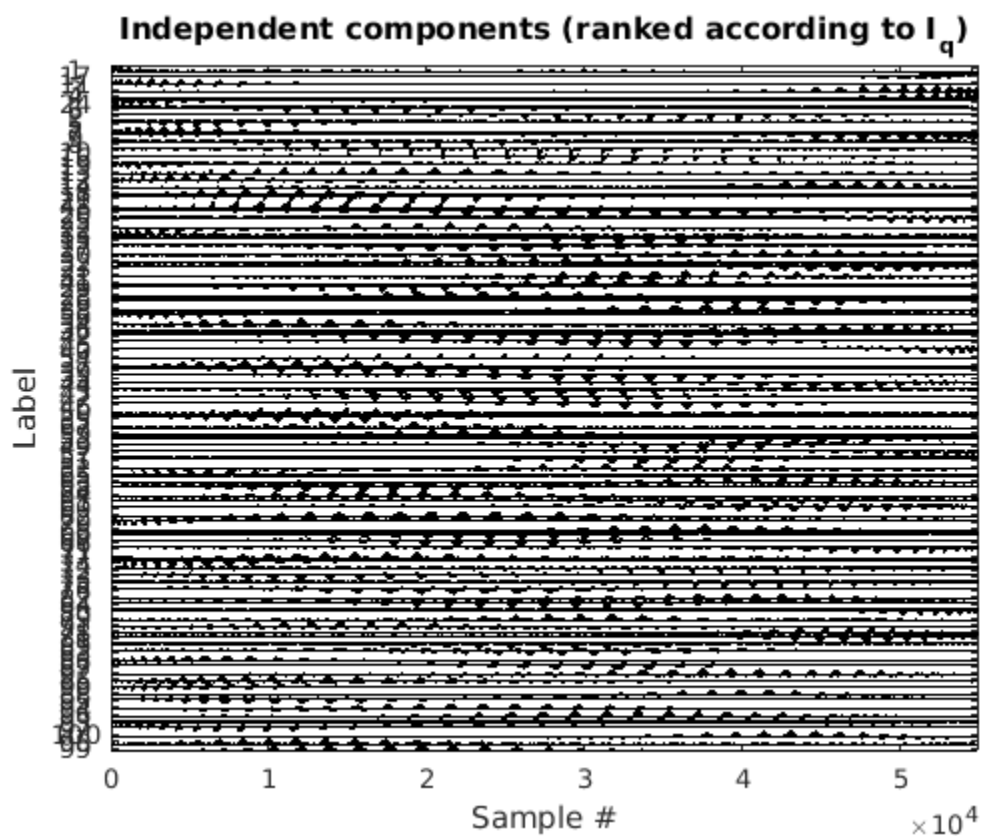
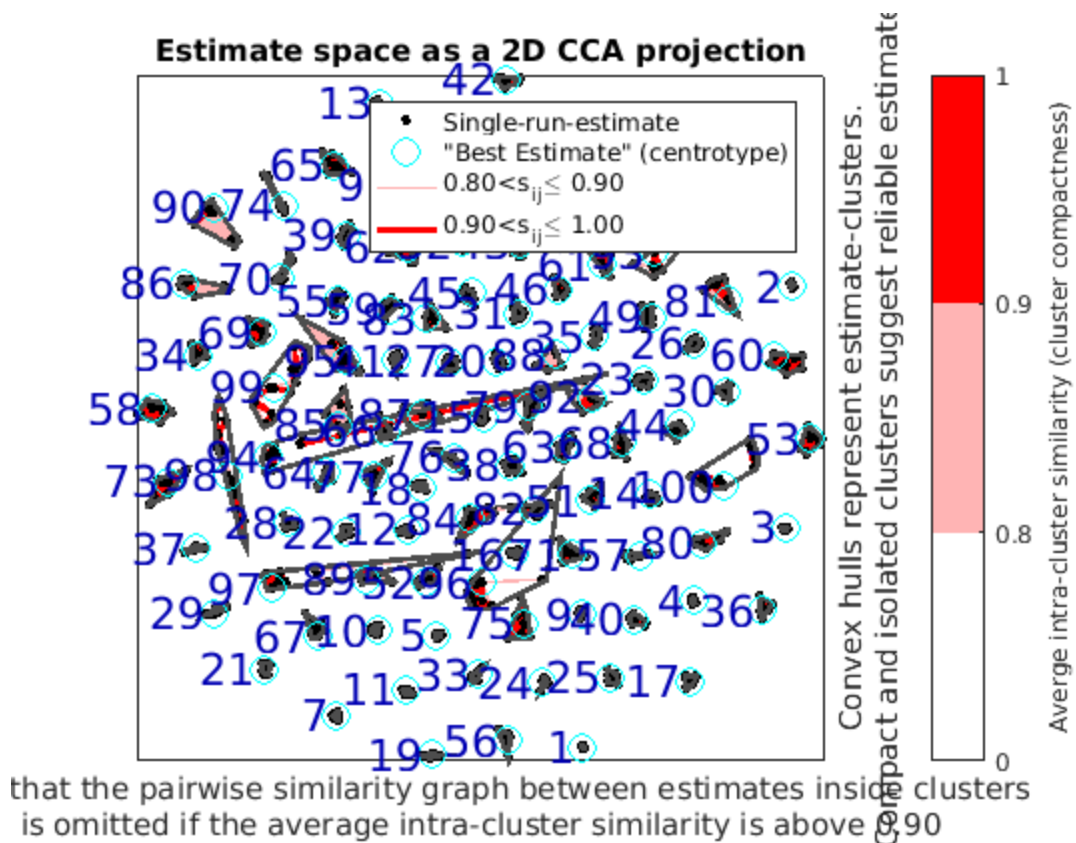


ability index (I_q) for ICA estimate-clusters



Similarities between estimates
Dendrogram (linkage strategy: Average) according to the dendrogram

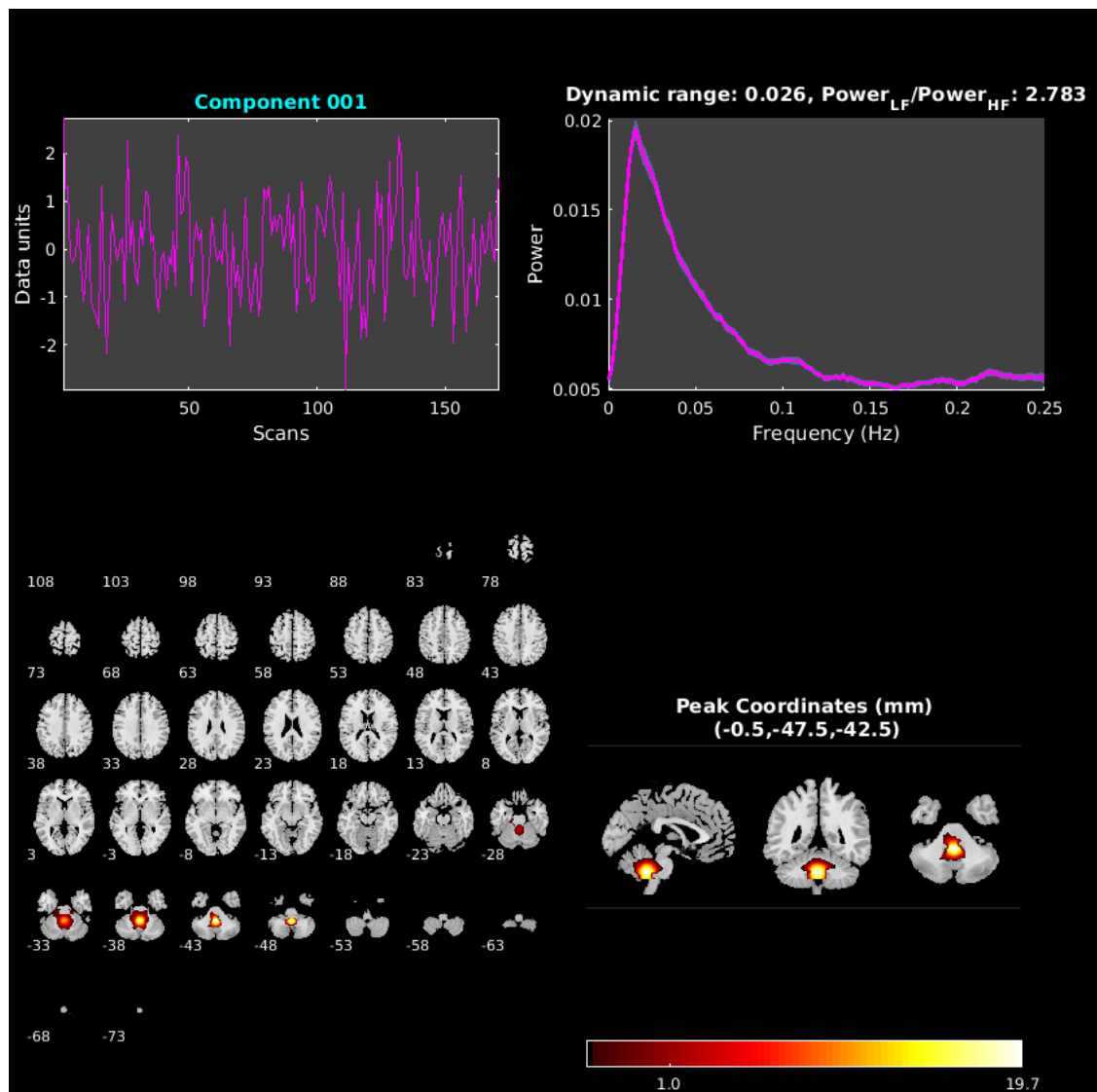


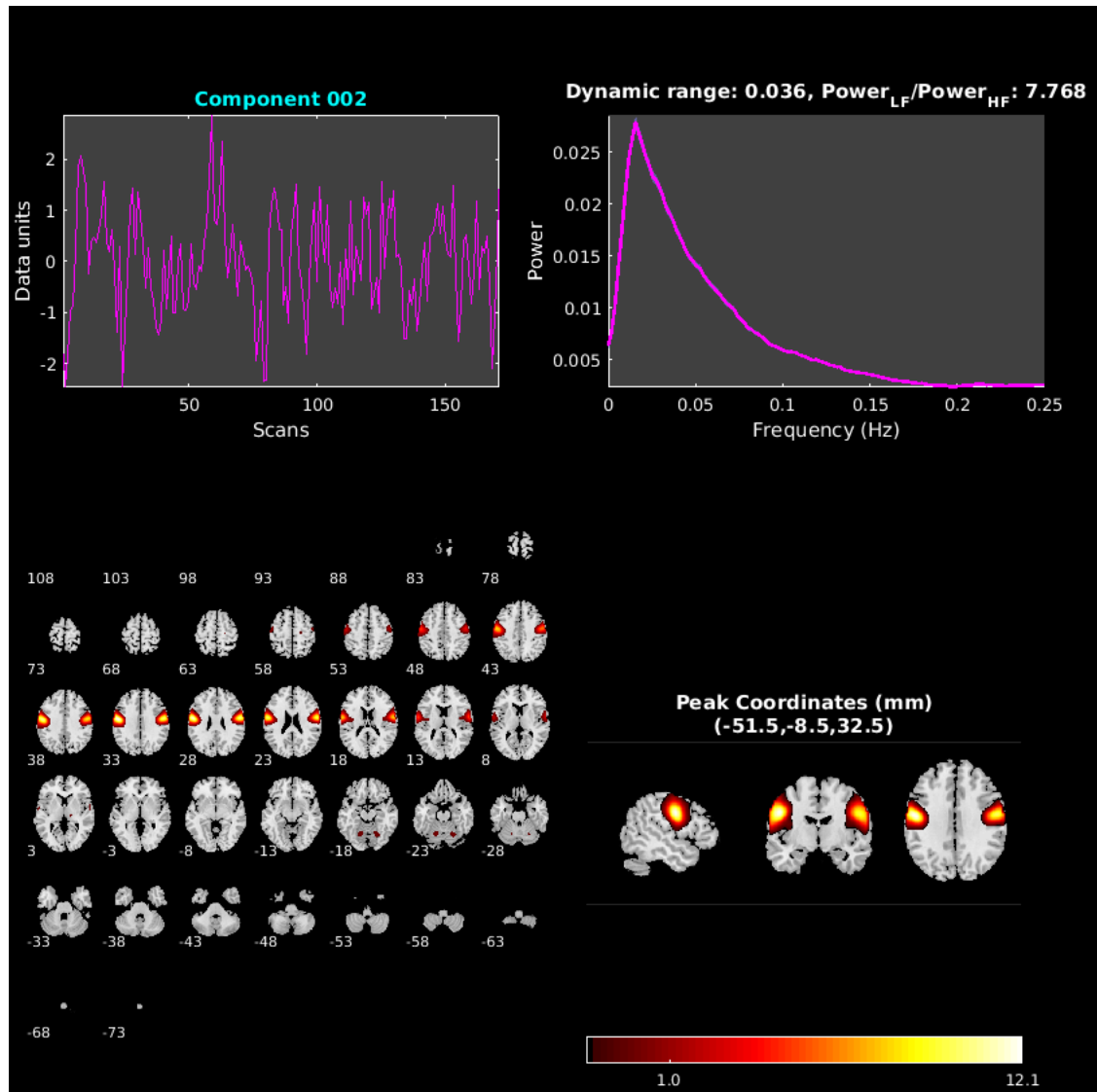


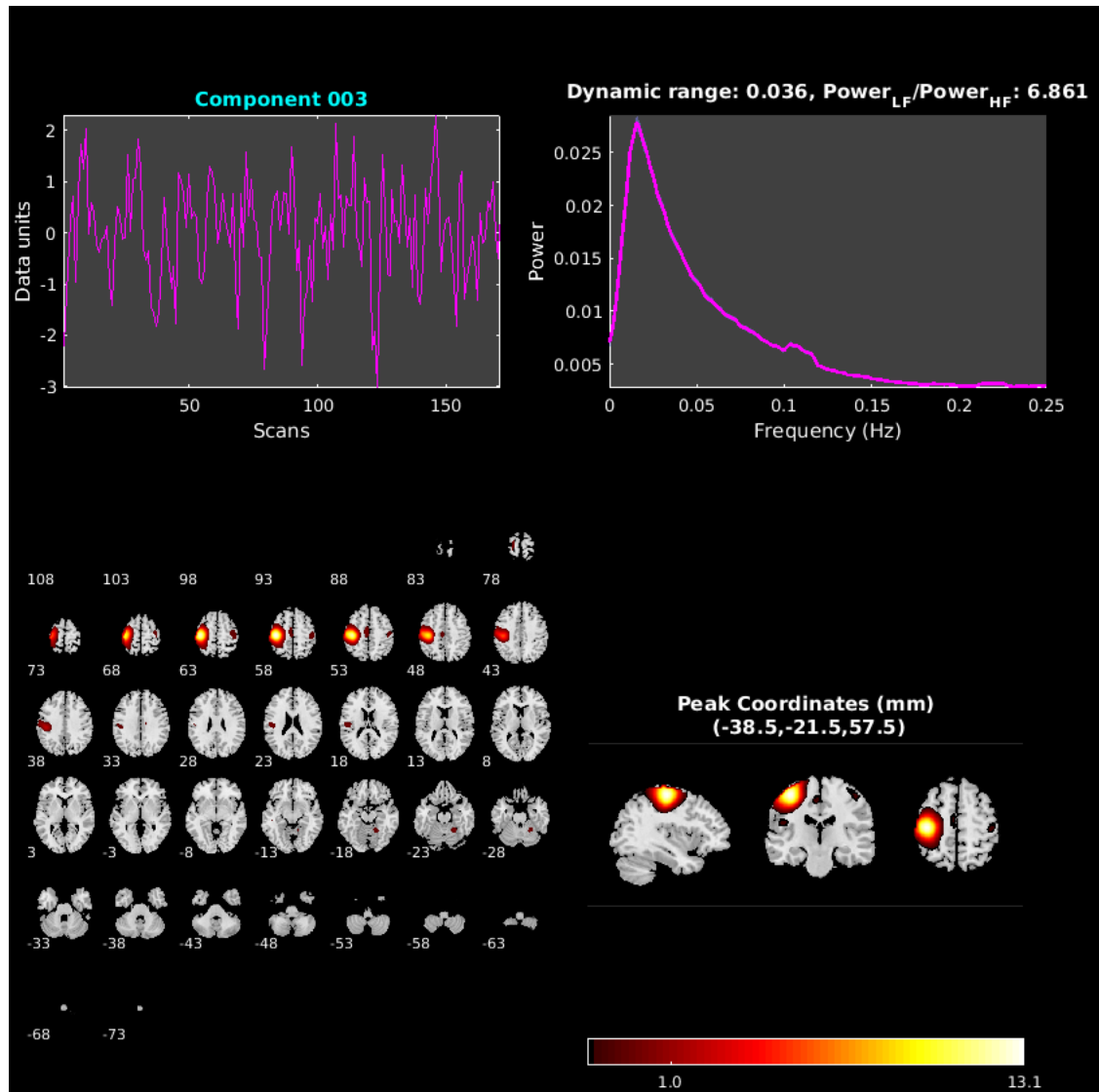
Mean Components

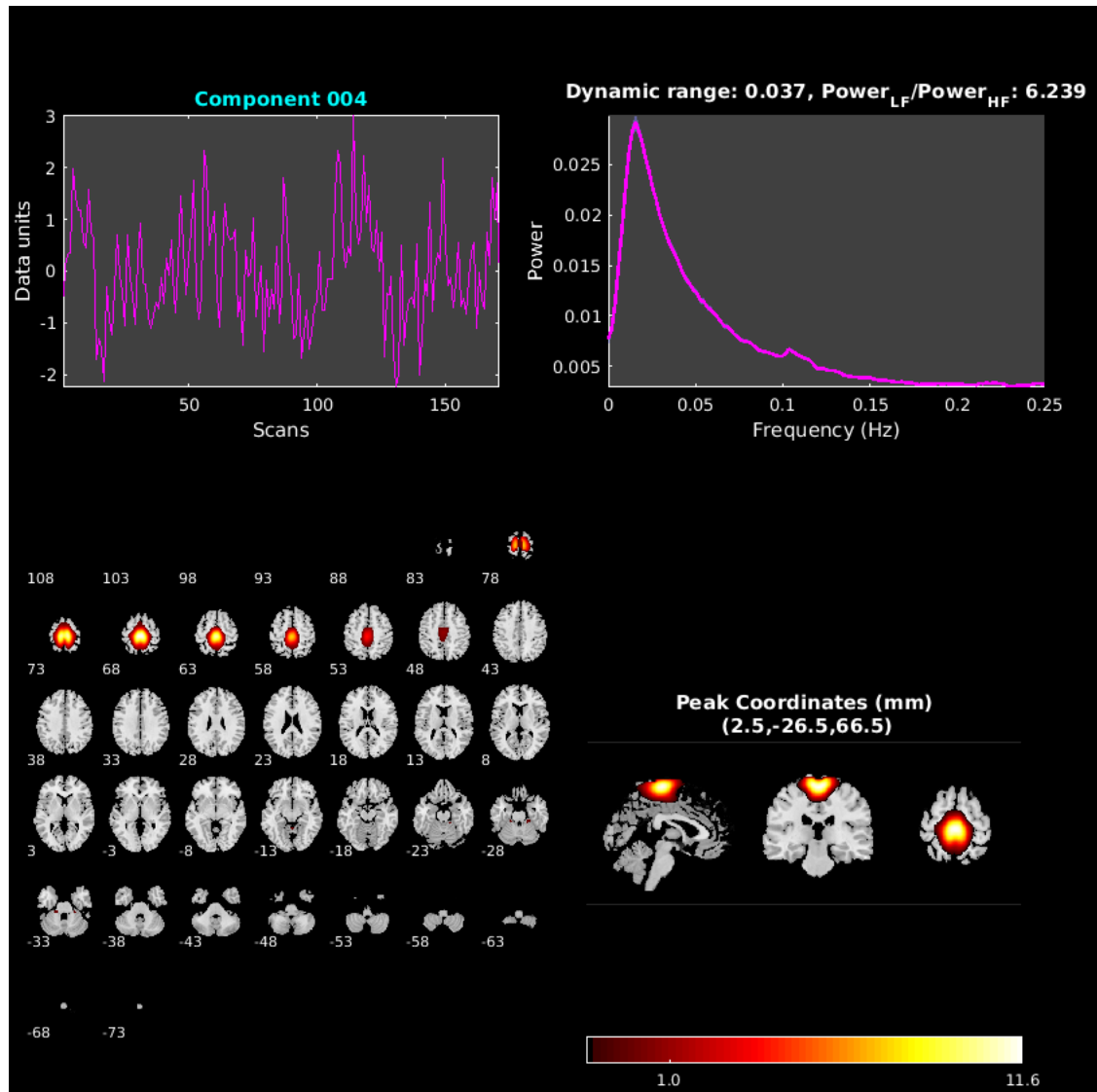
Mean across all subjects and sessions is computed for each component

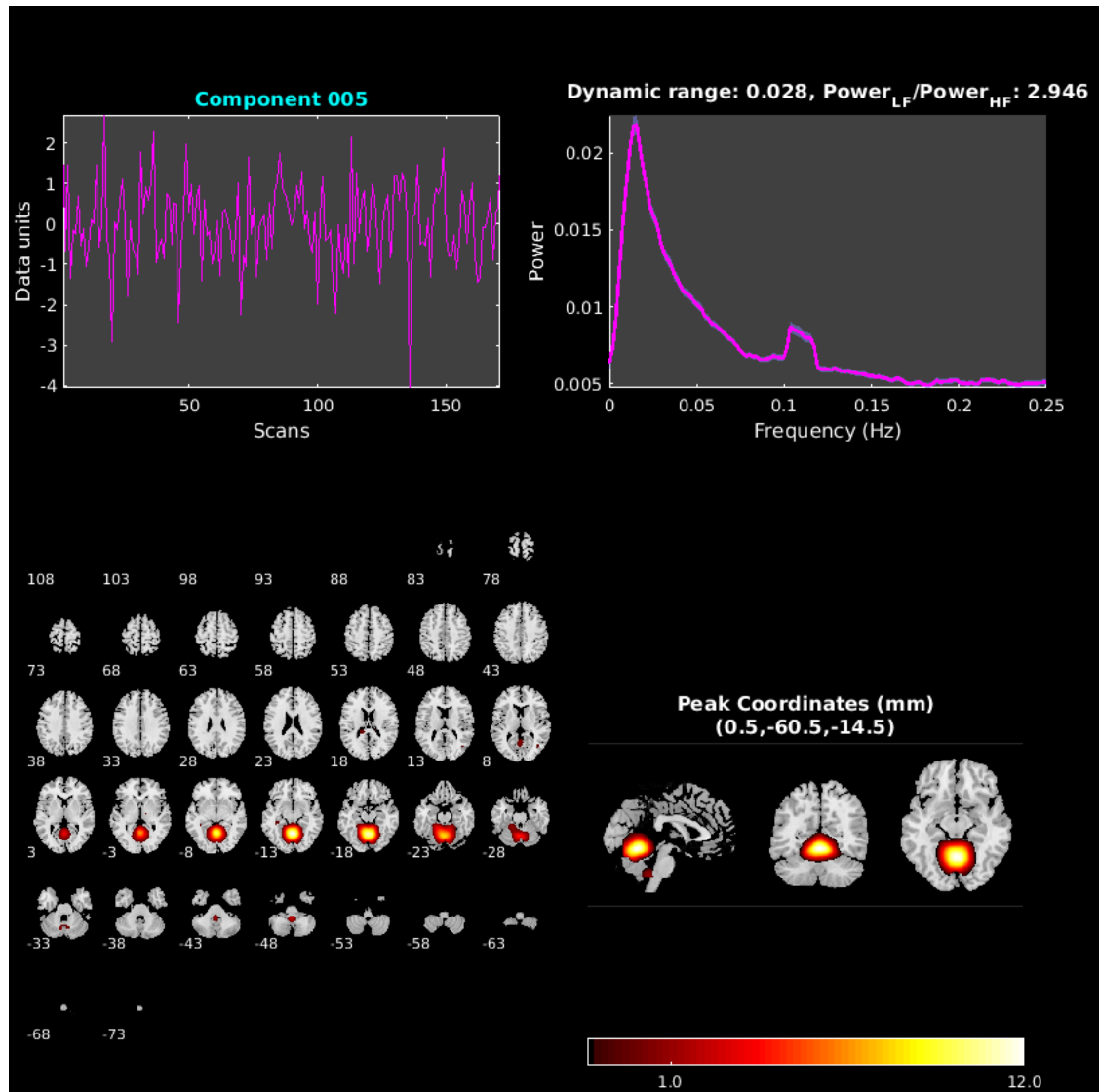
- **a) Timecourse** - Mean timecourse is converted to z-scores.
- **b) Spectra** - Timecourses spectra is computed for each data-set and averaged across sessions. Mean and standard error of mean is shown in the figure.
- **c) Montage** - Axial slices are shown.
- **d) Ortho slices** - Ortho plot is shown for the peak voxel and coordinates are reported.

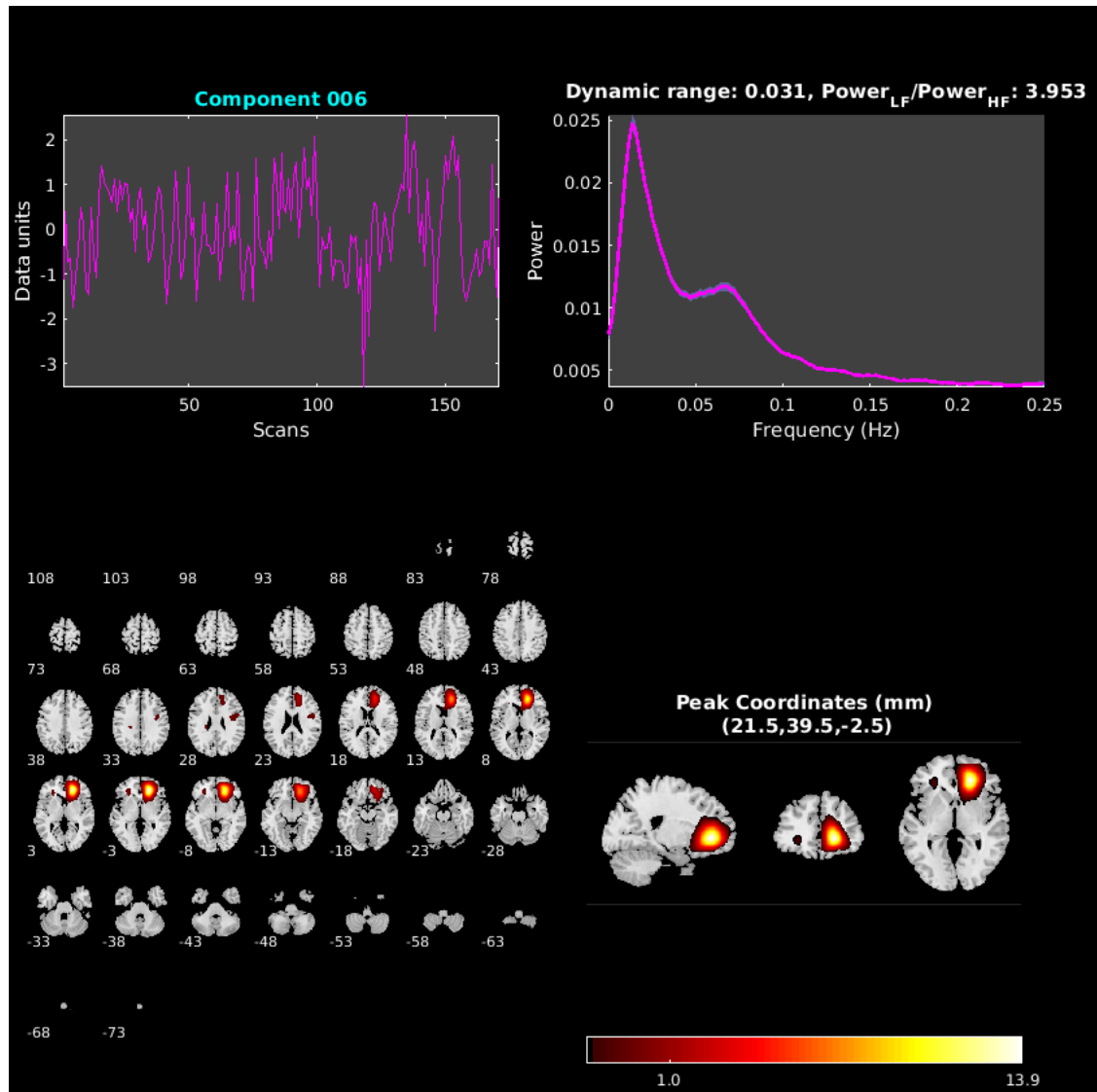


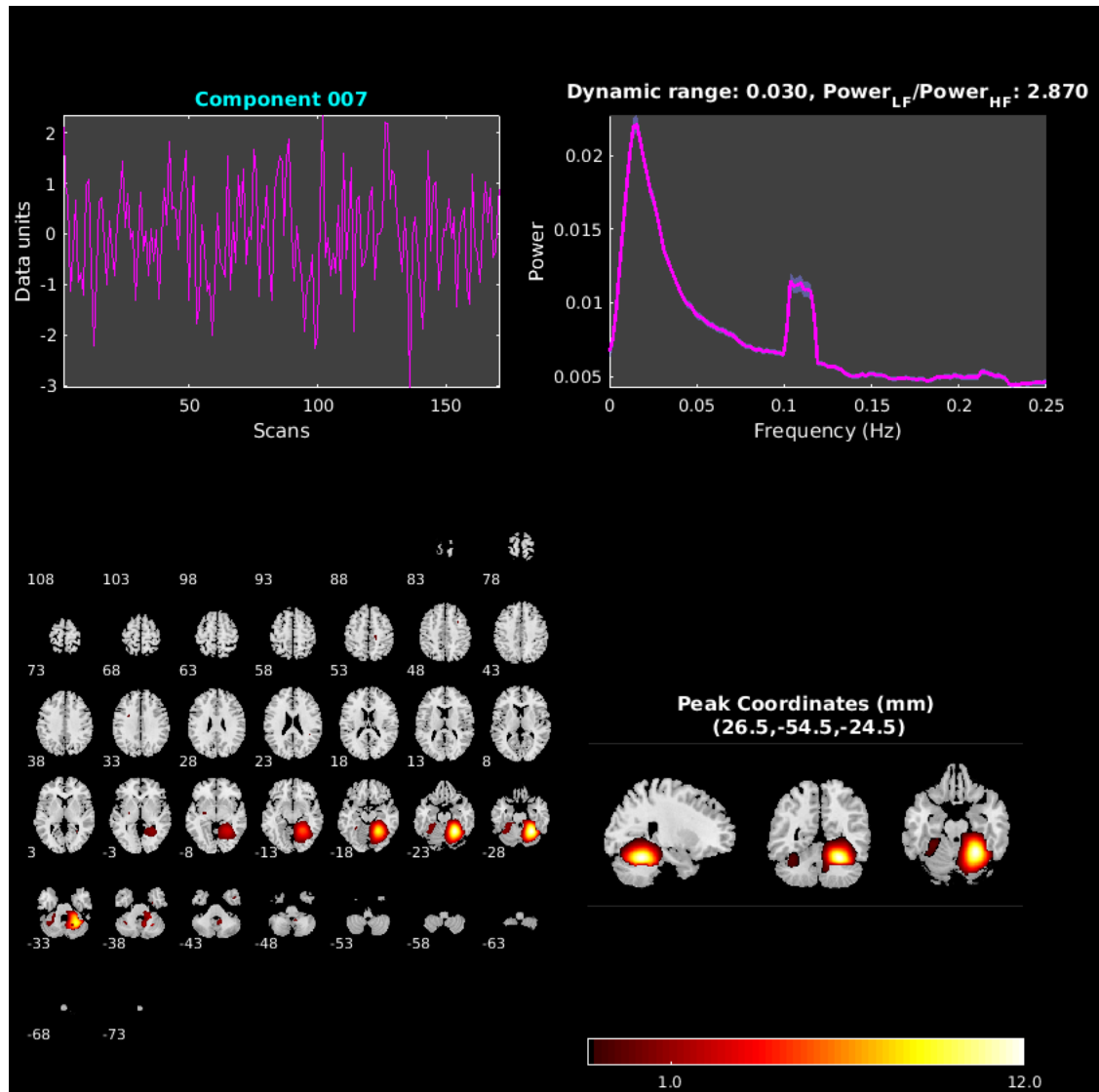


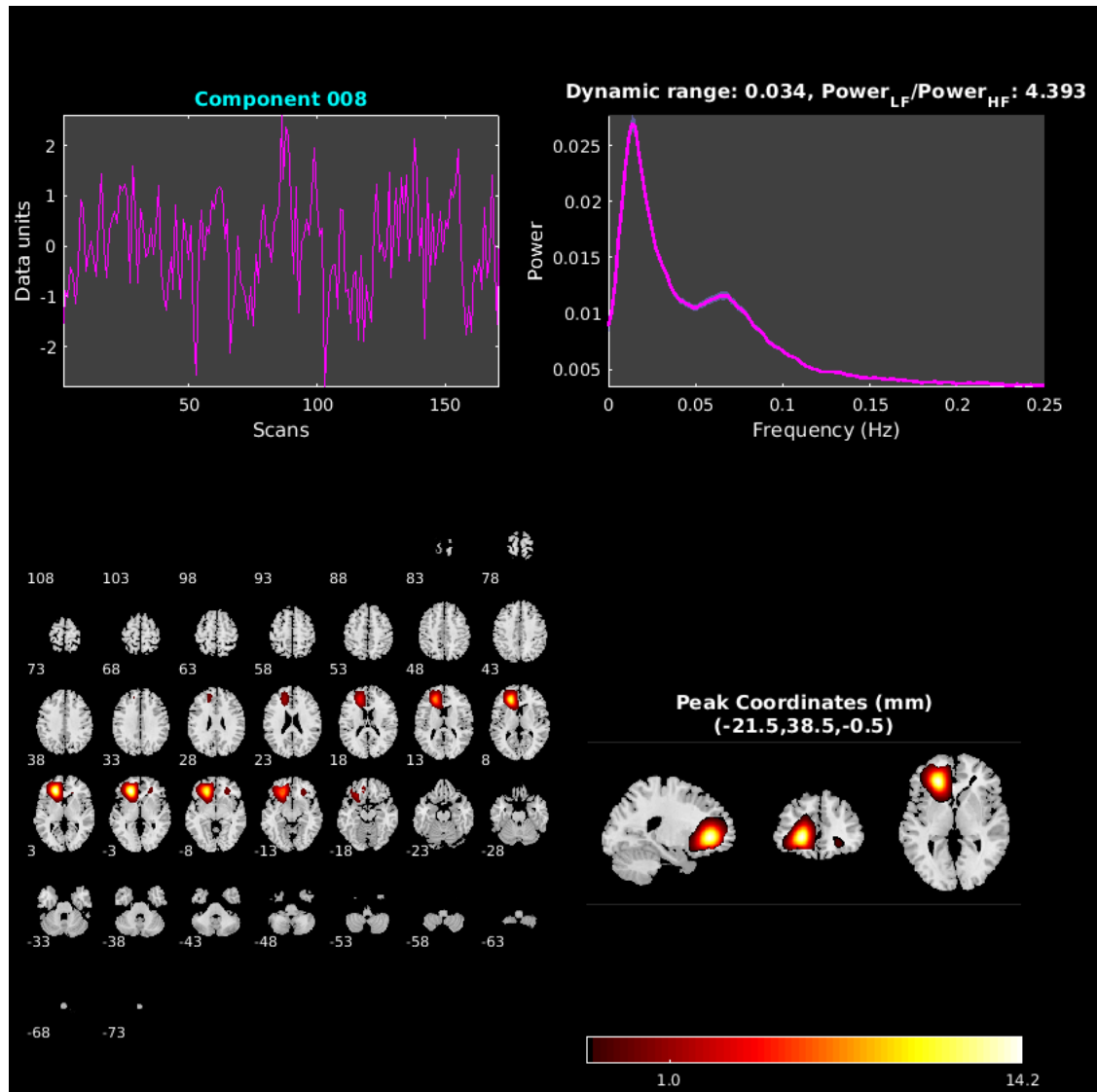


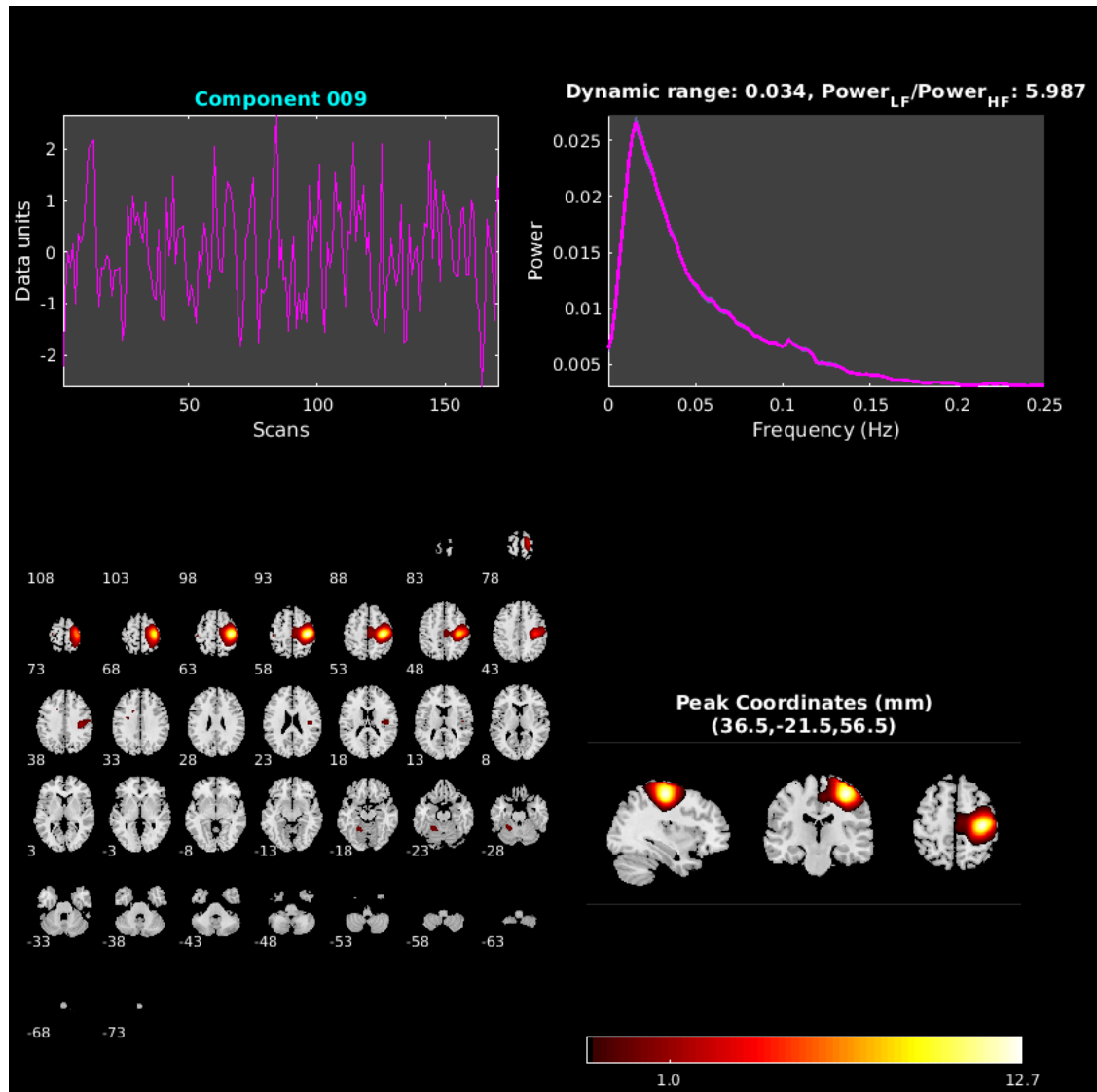


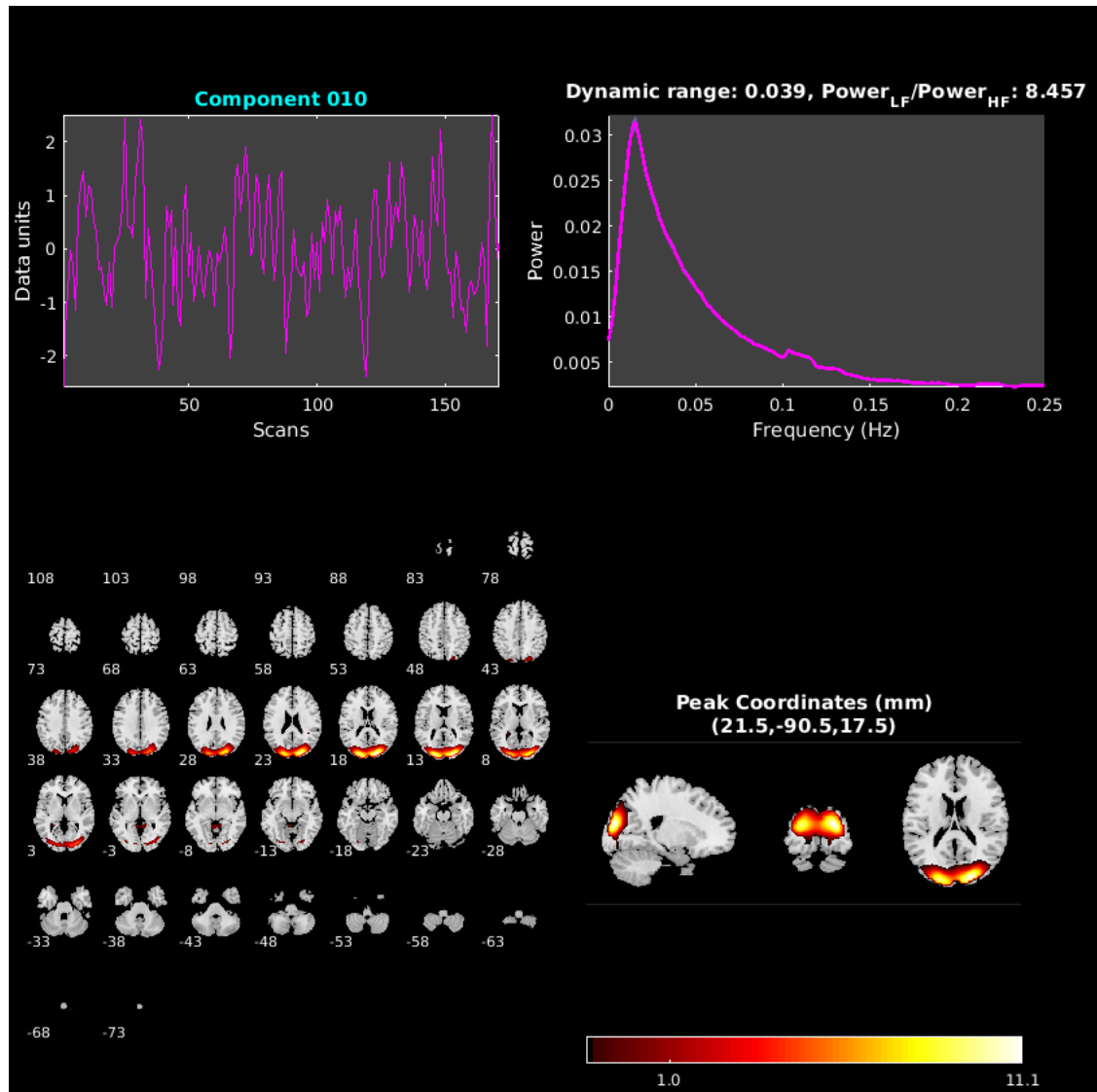


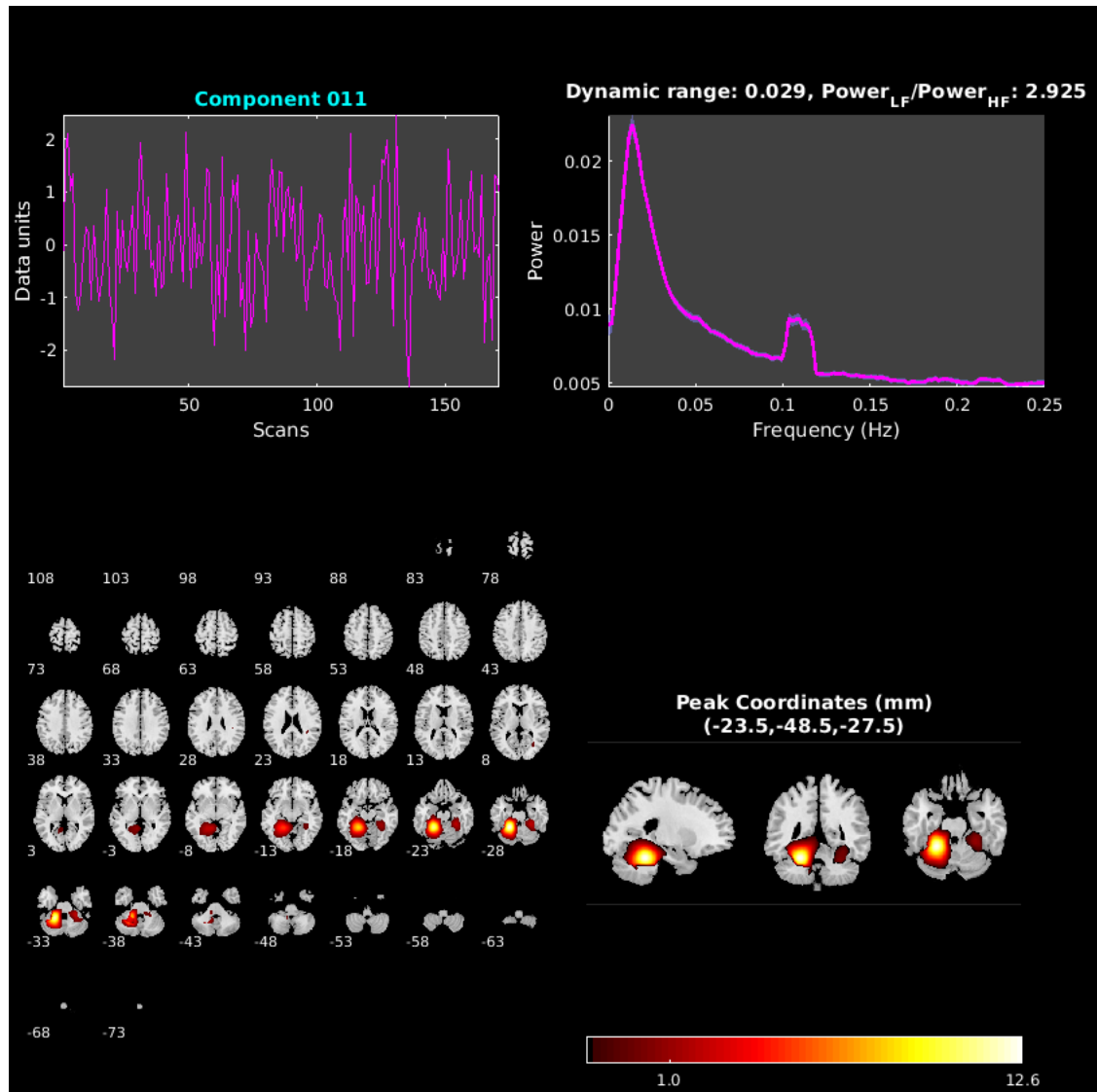


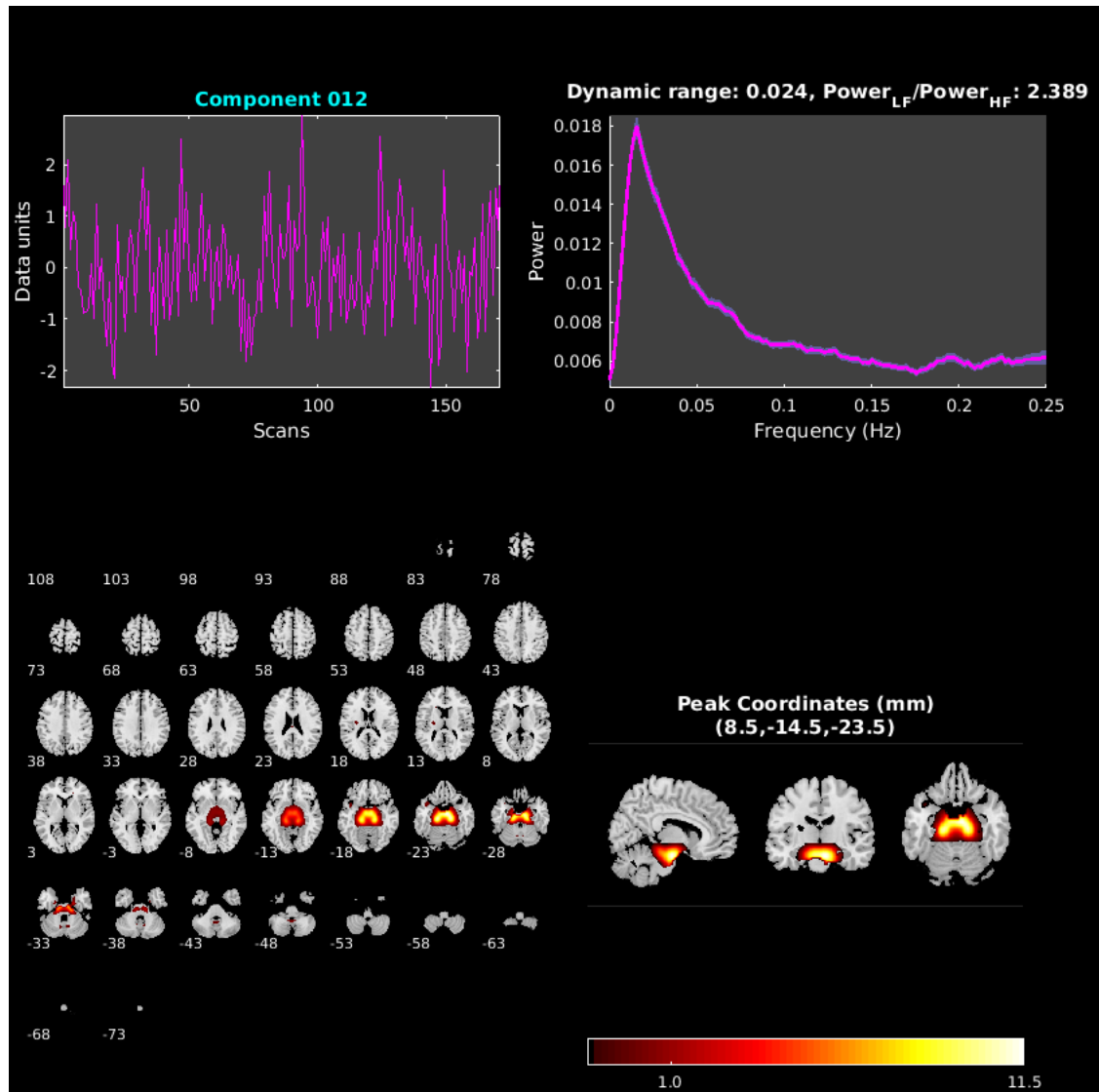


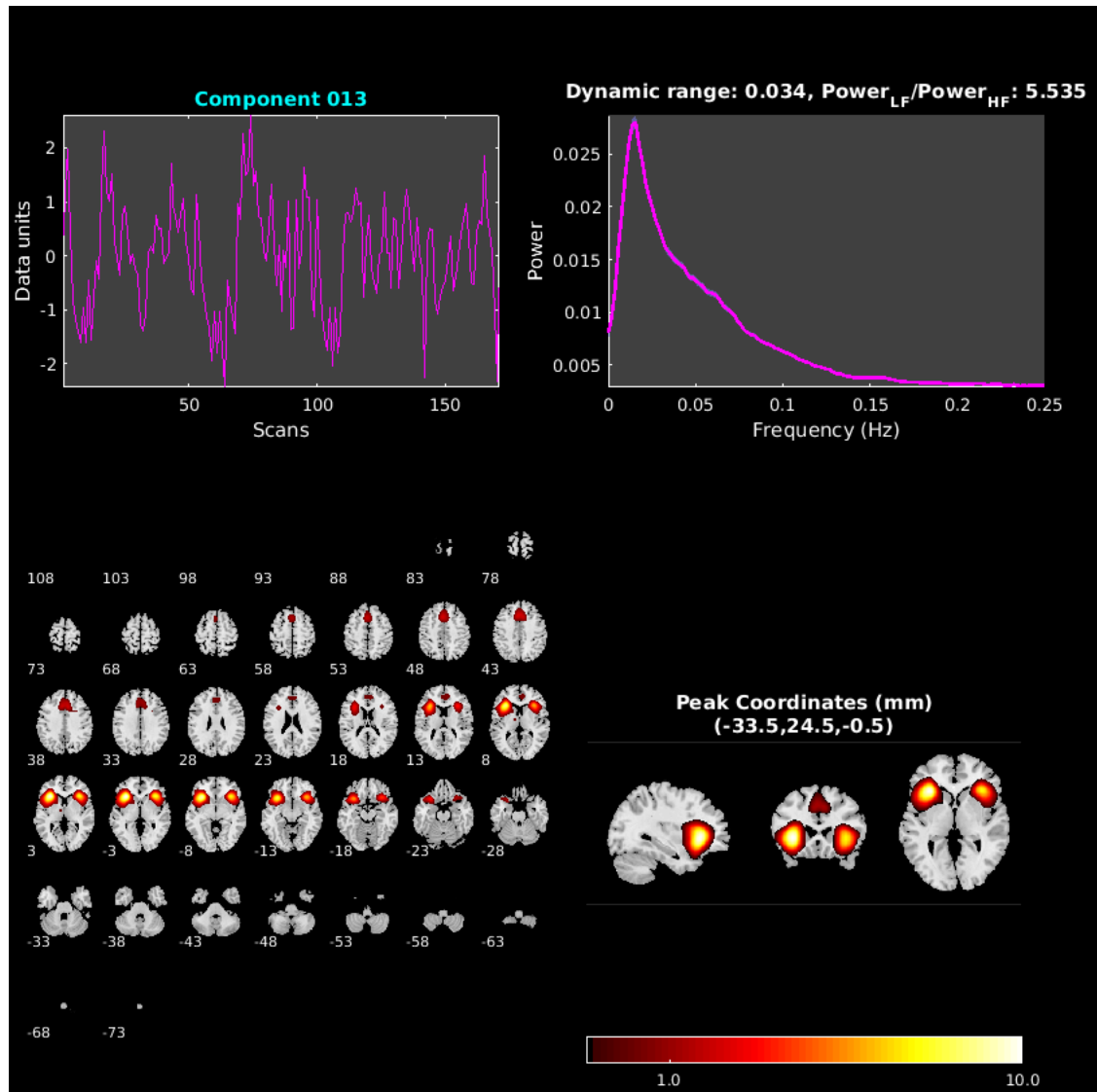


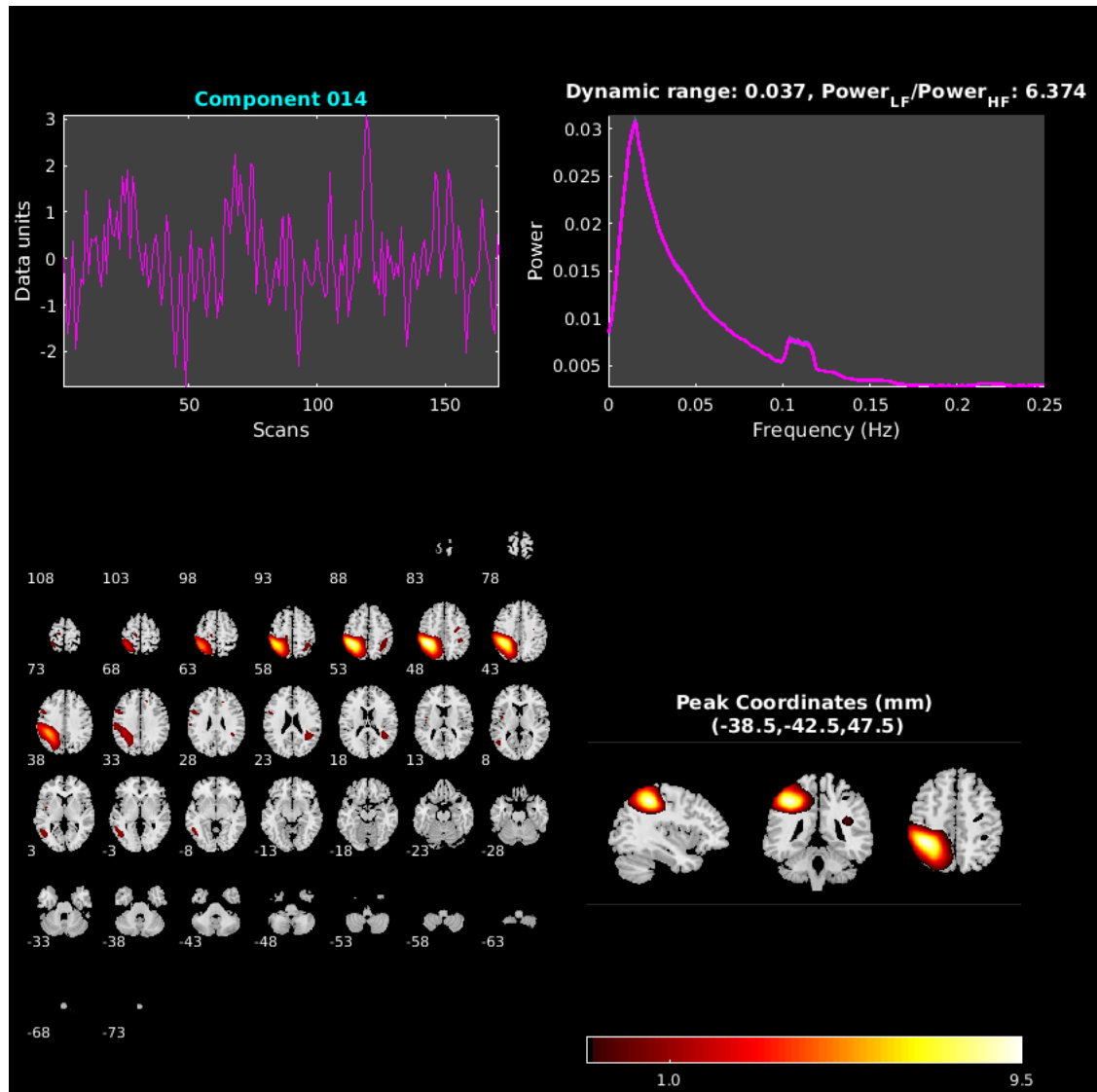


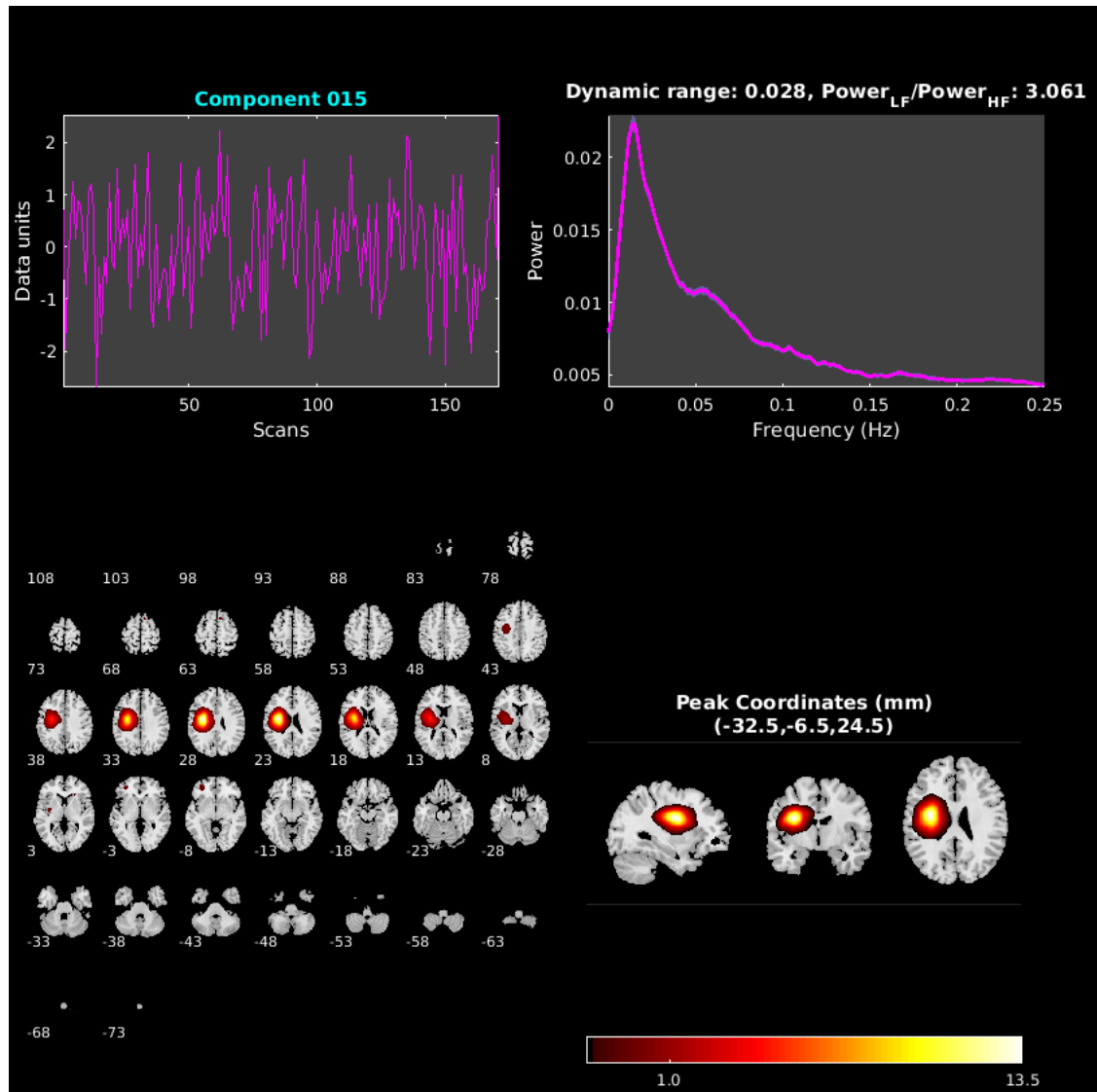


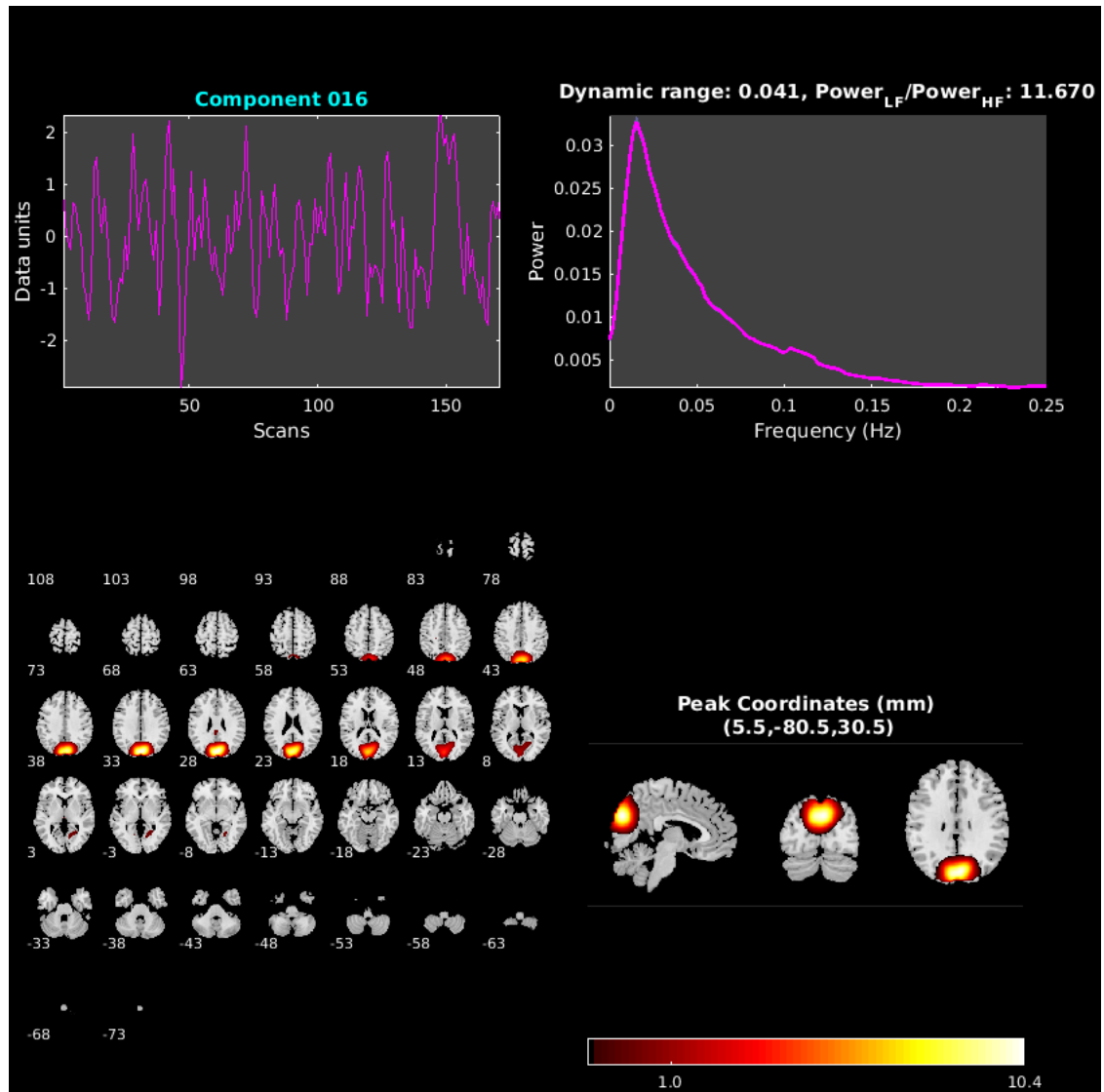


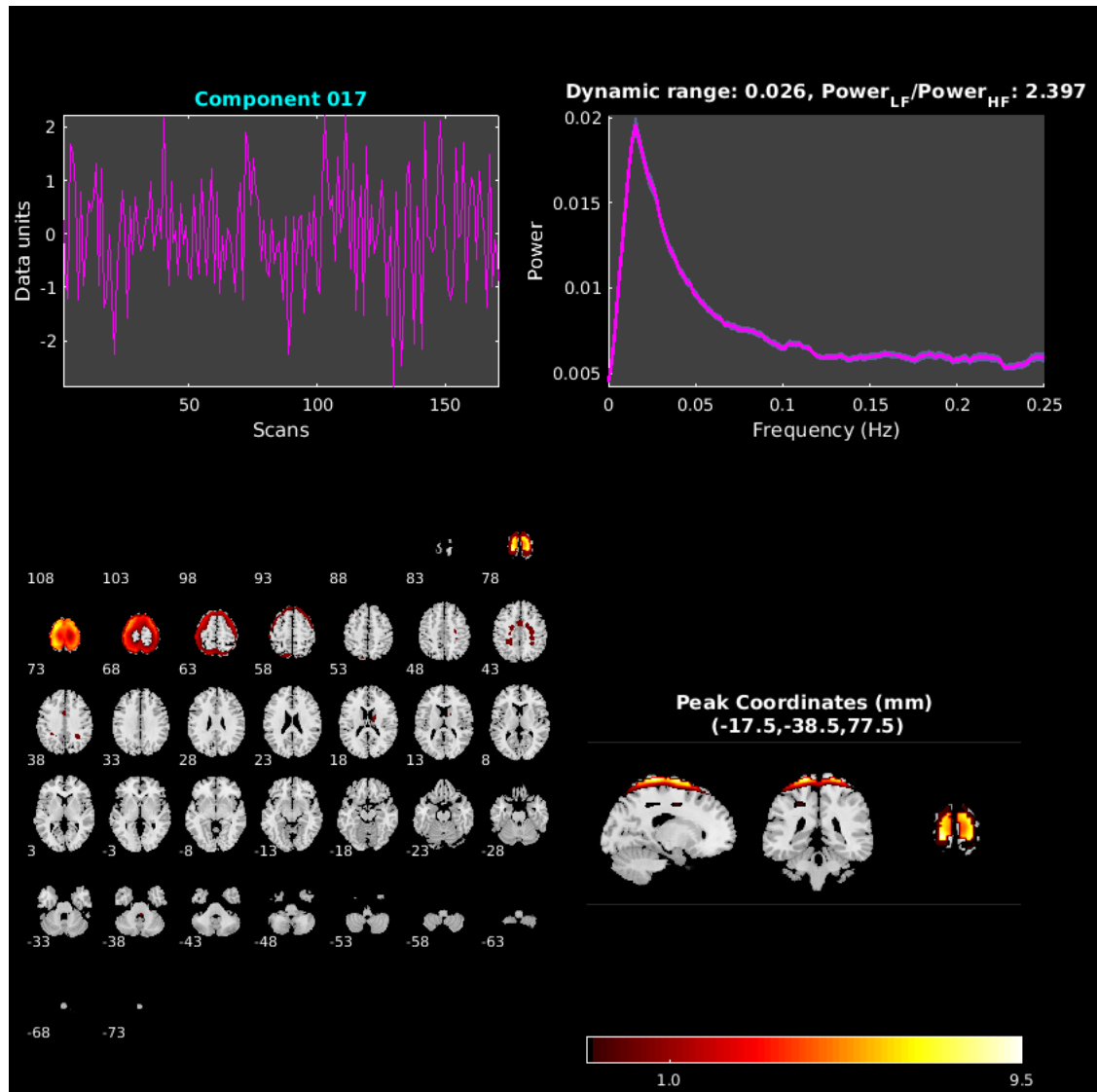


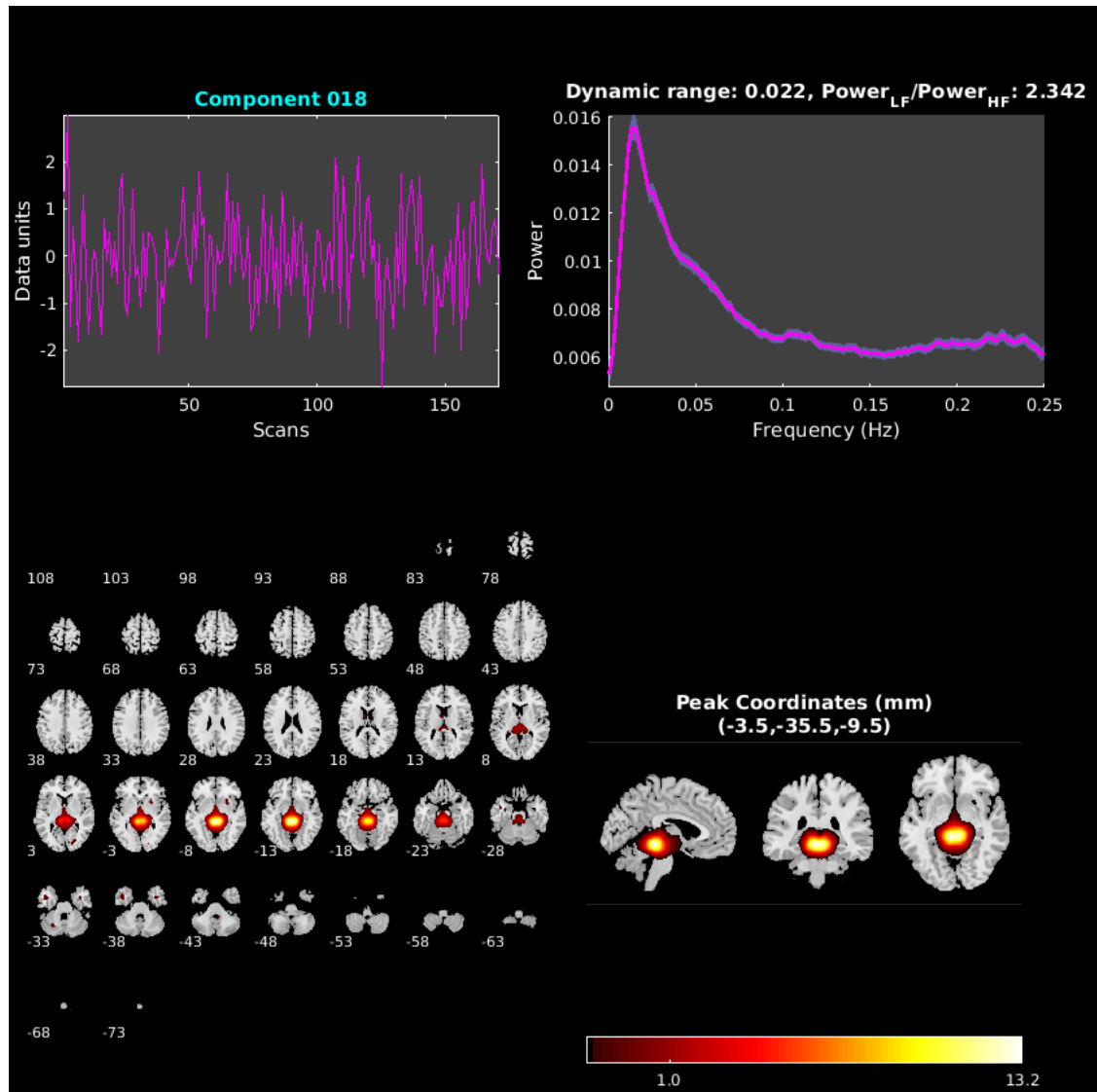


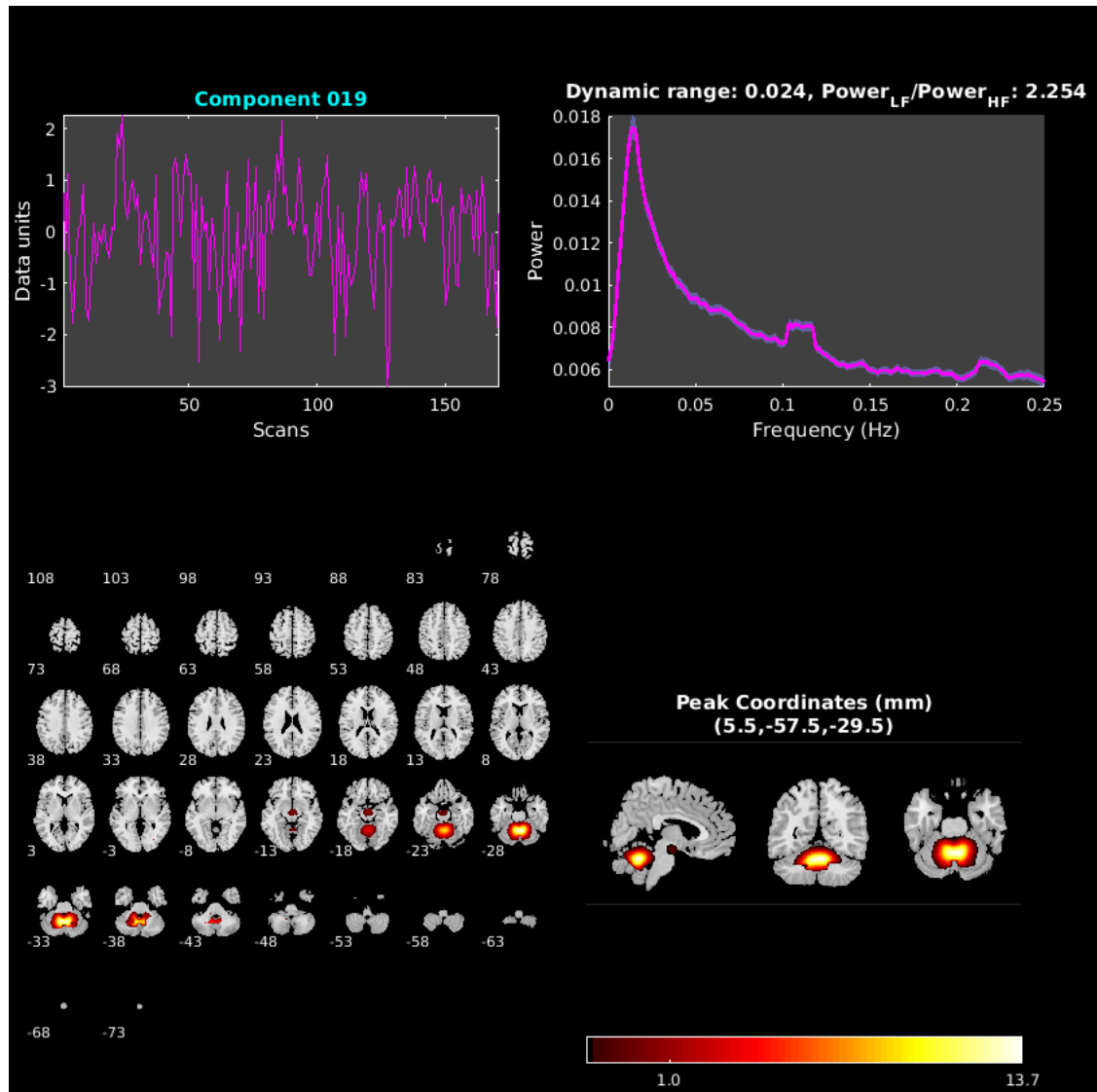


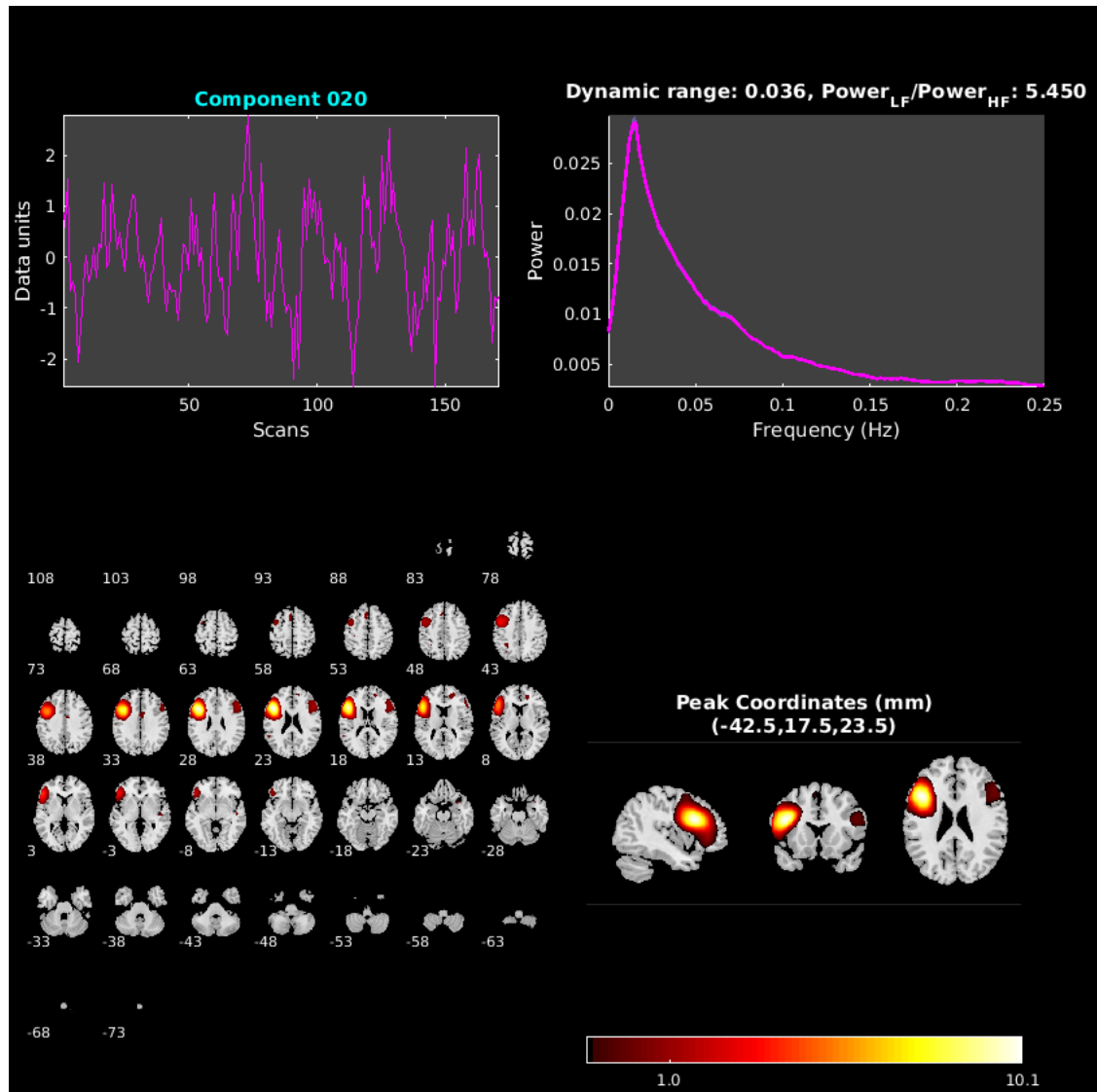


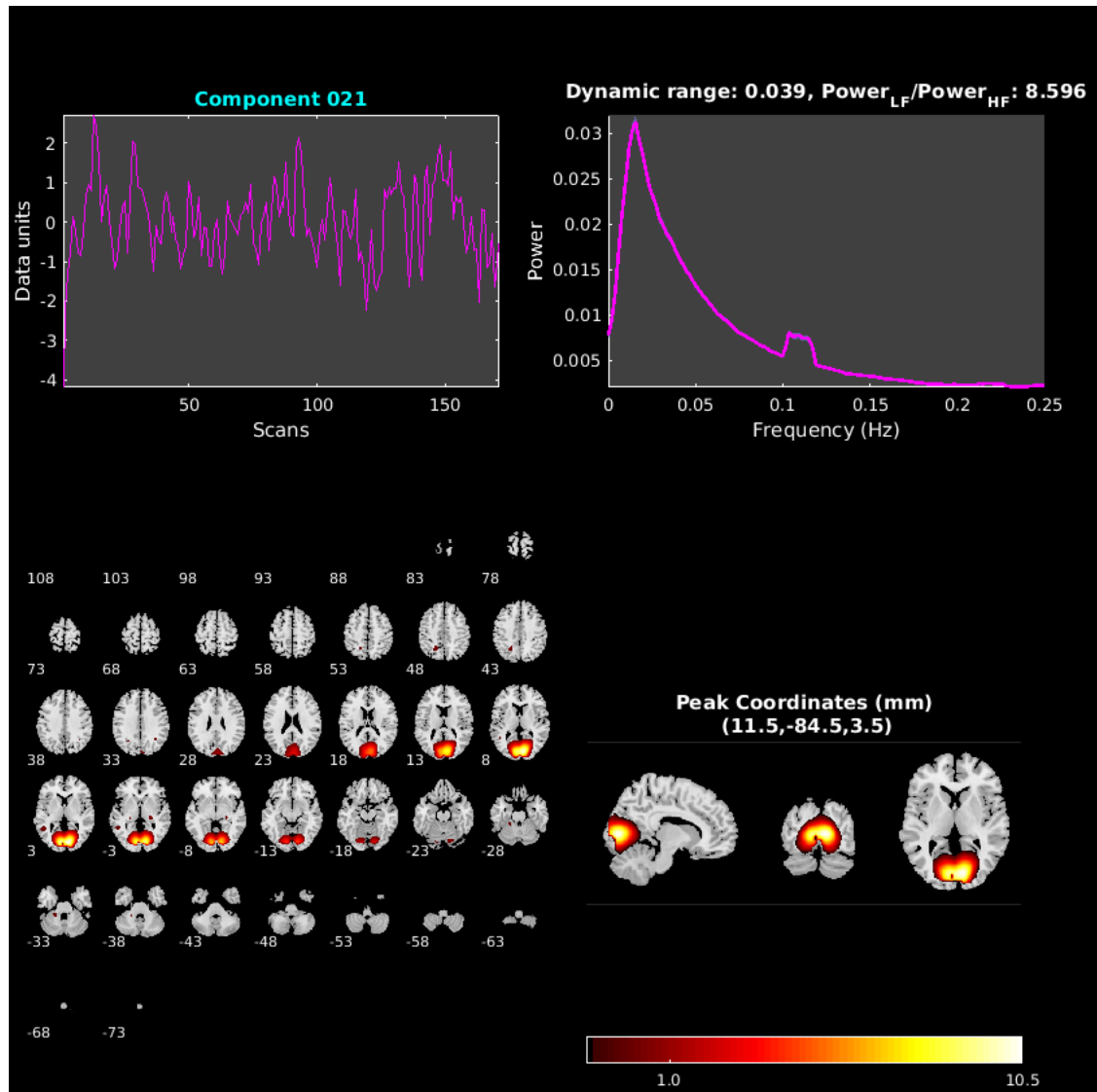


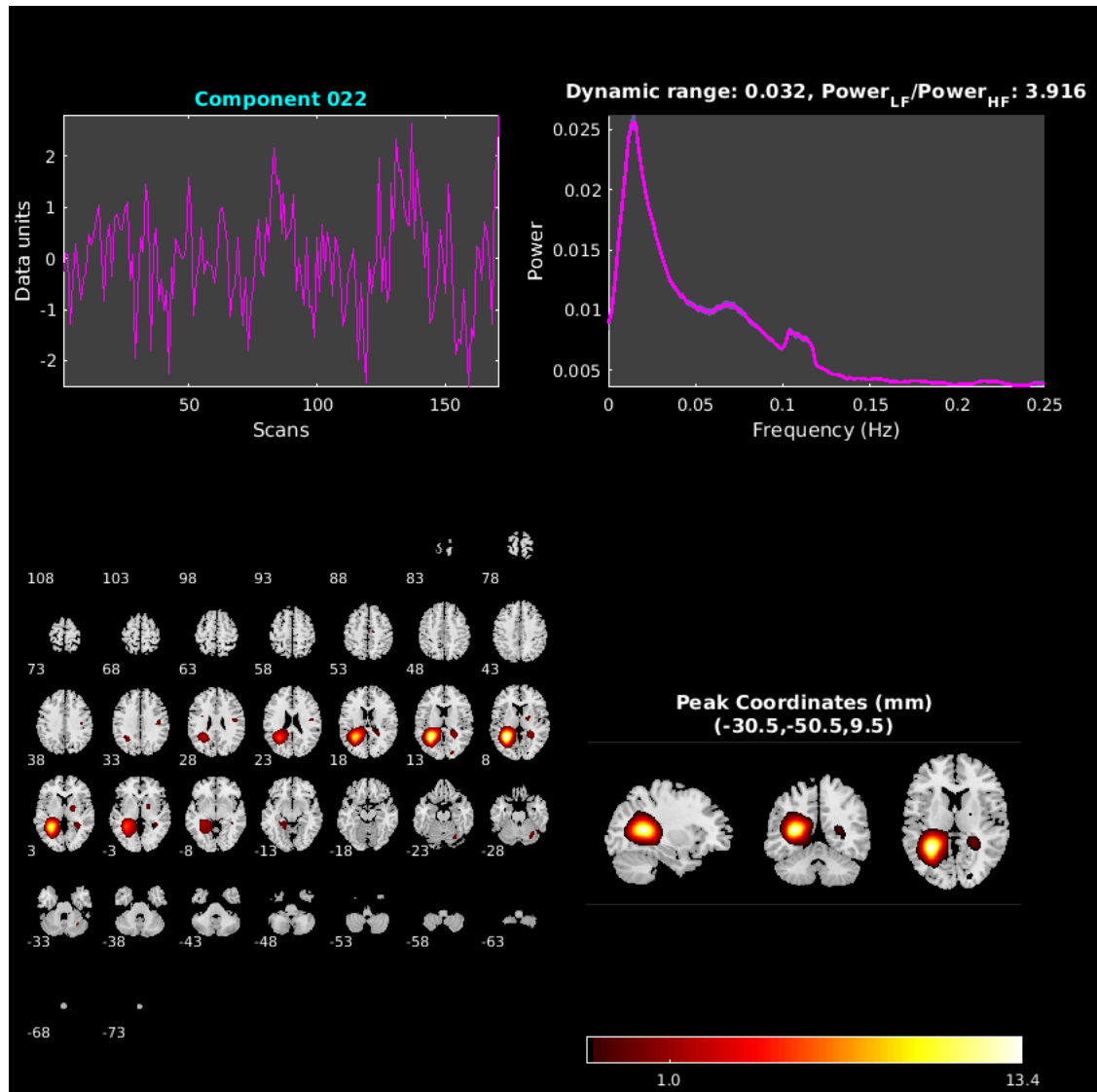


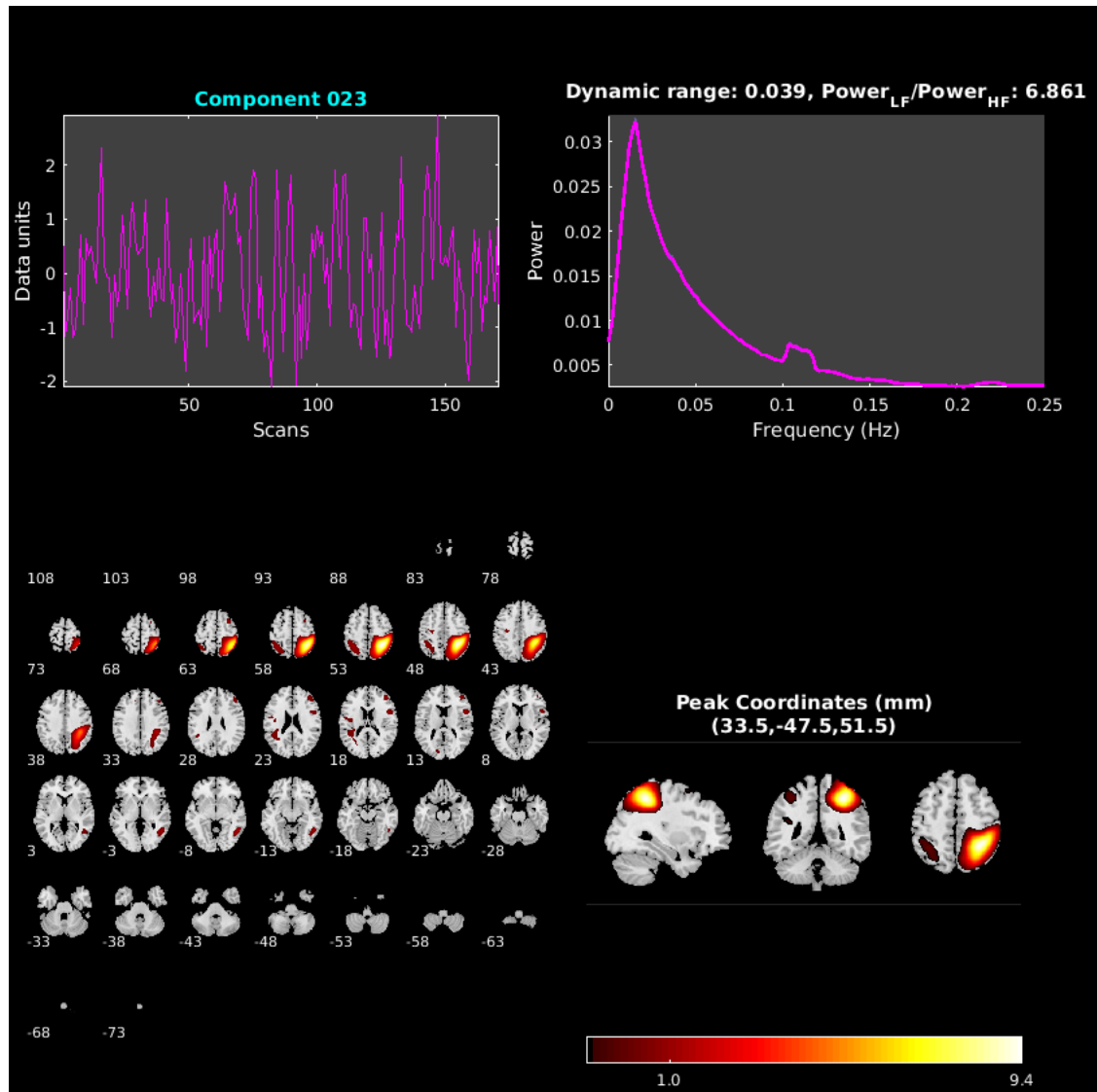


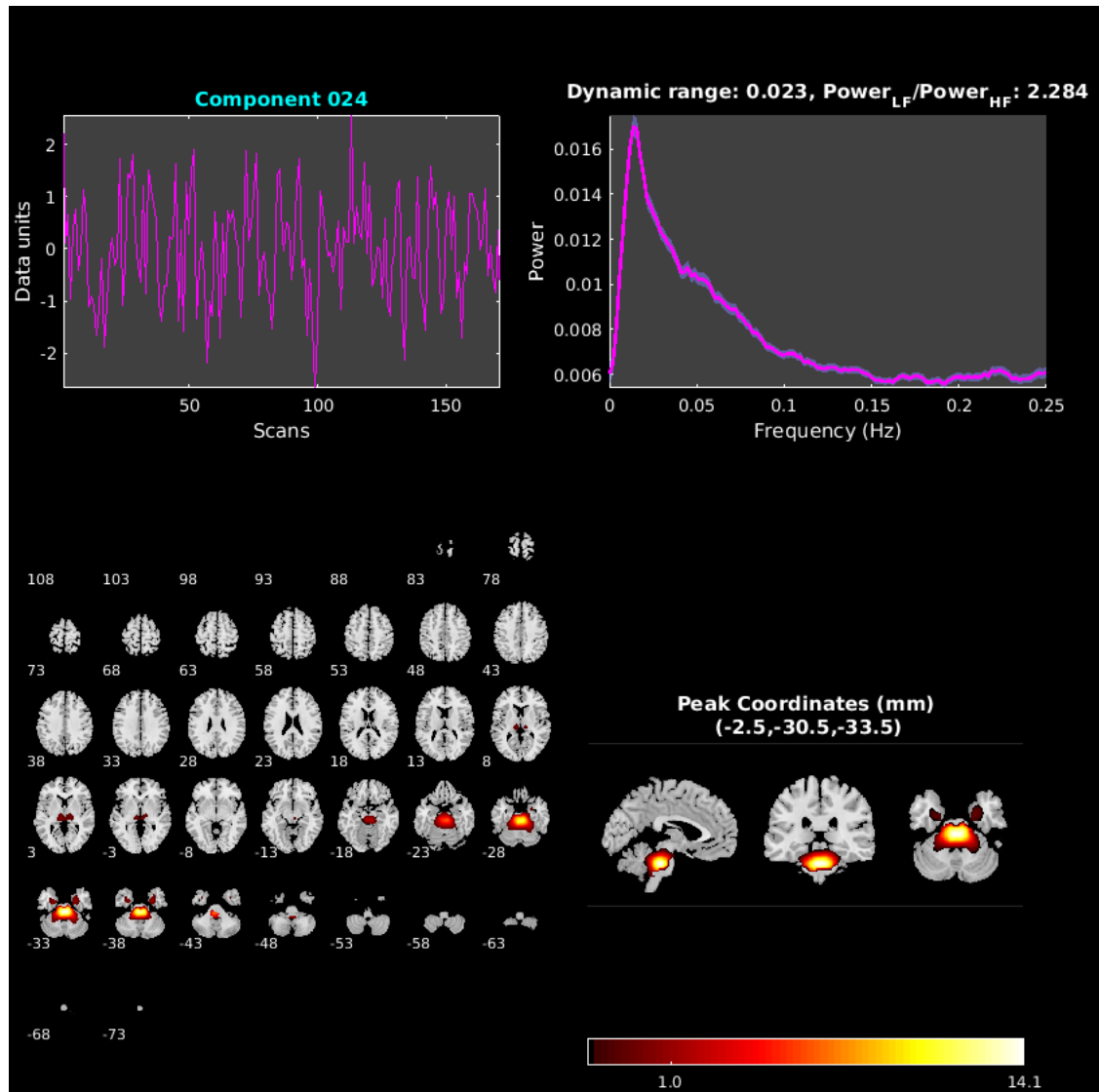


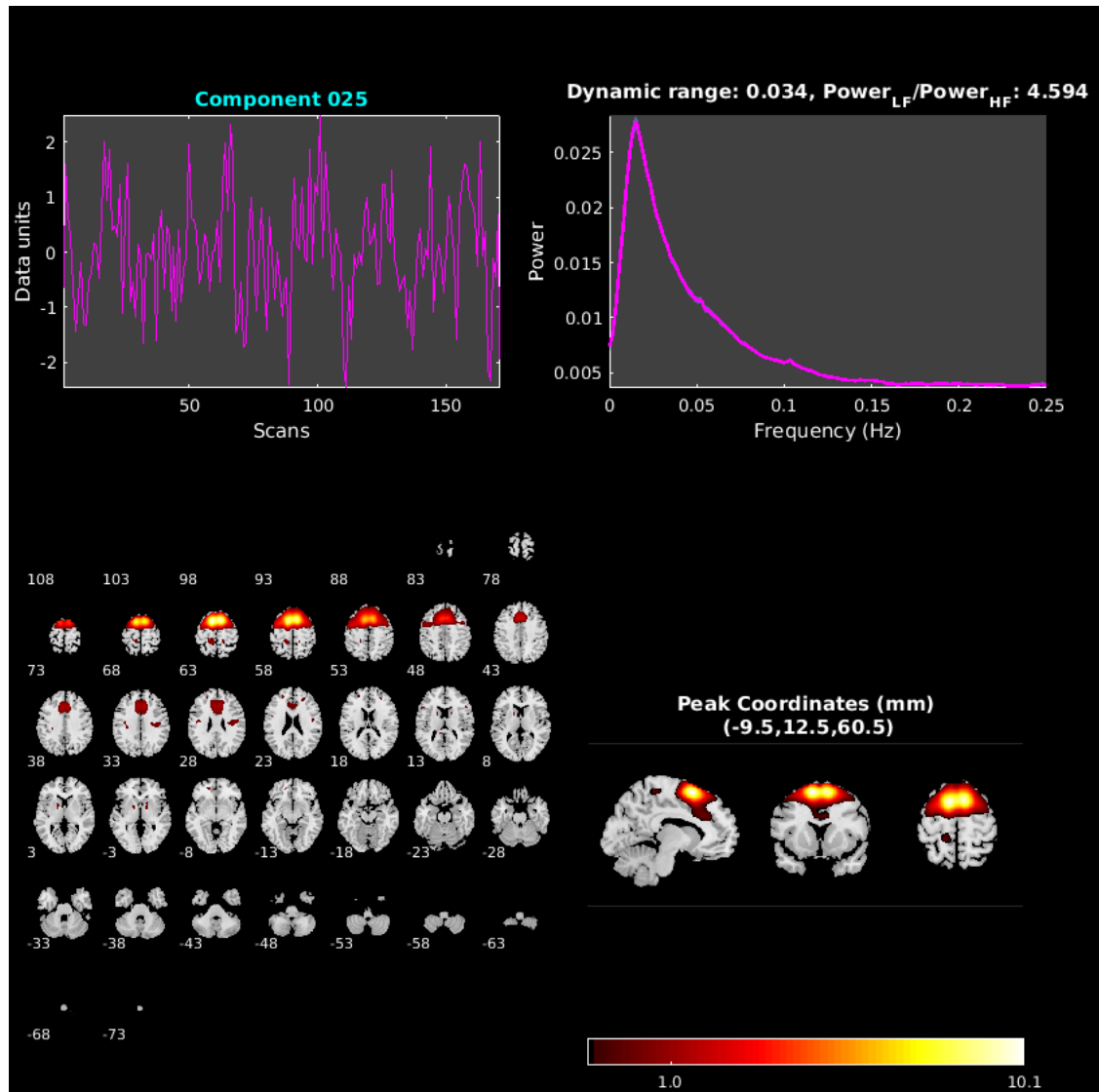


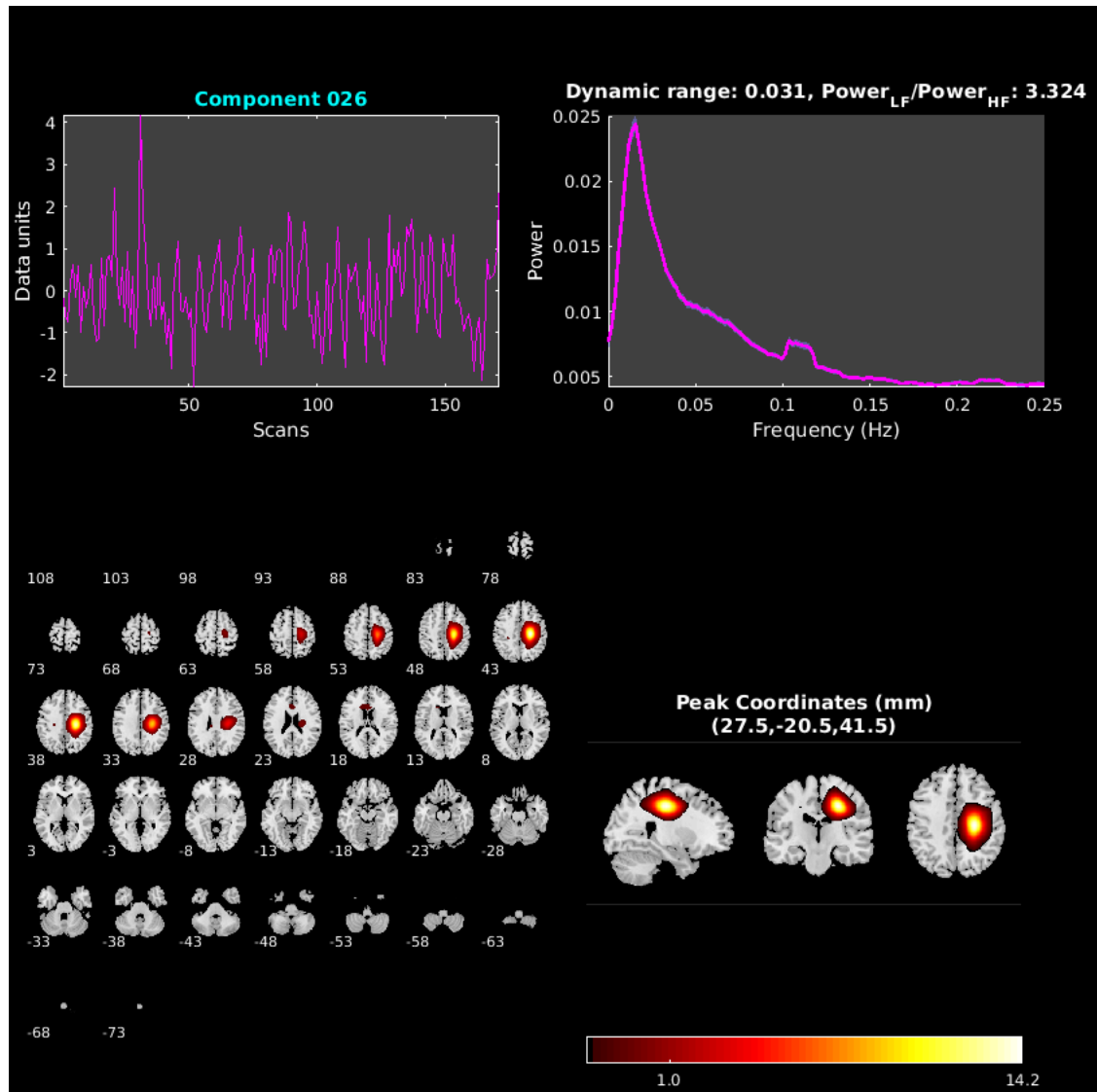


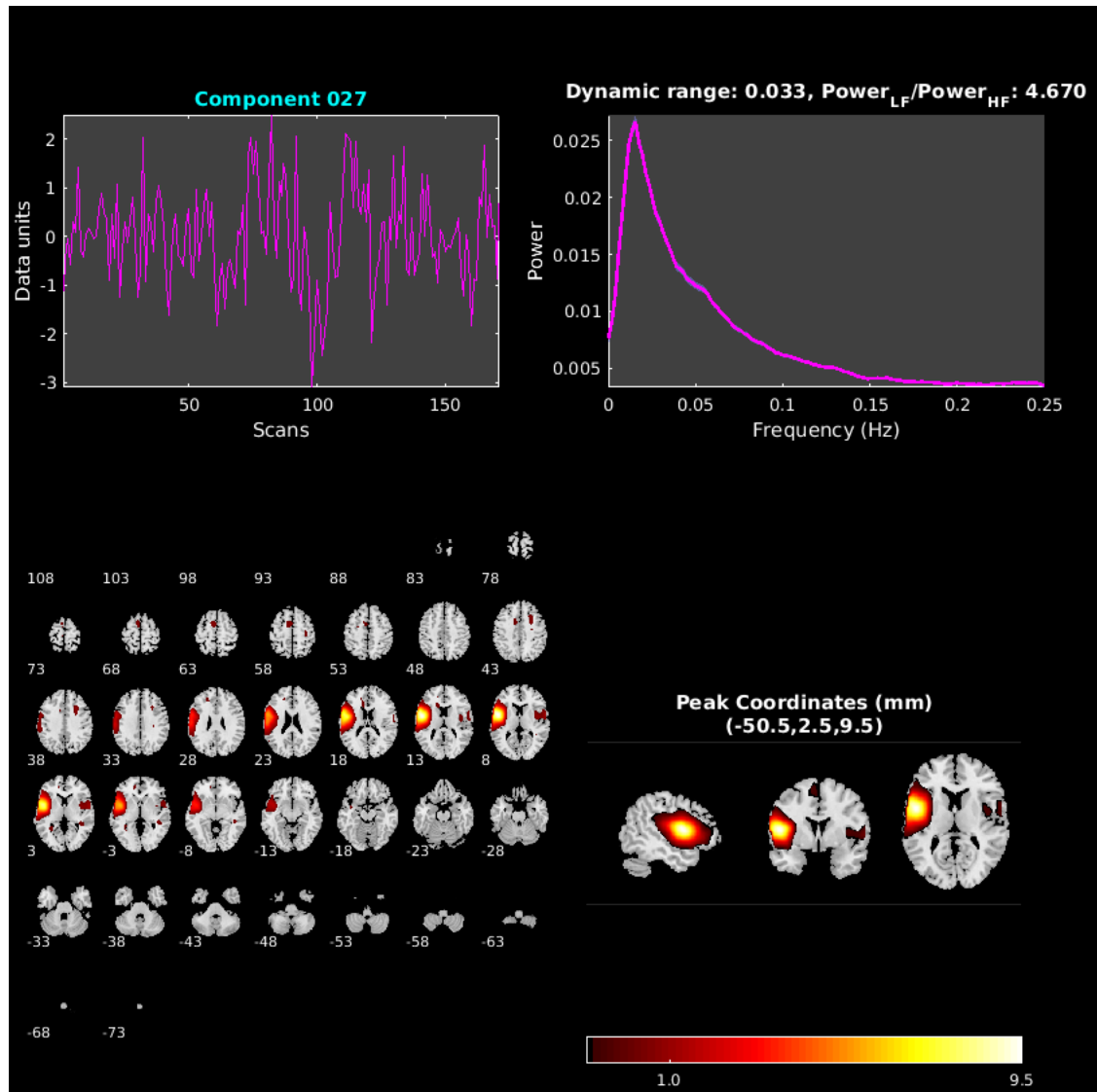


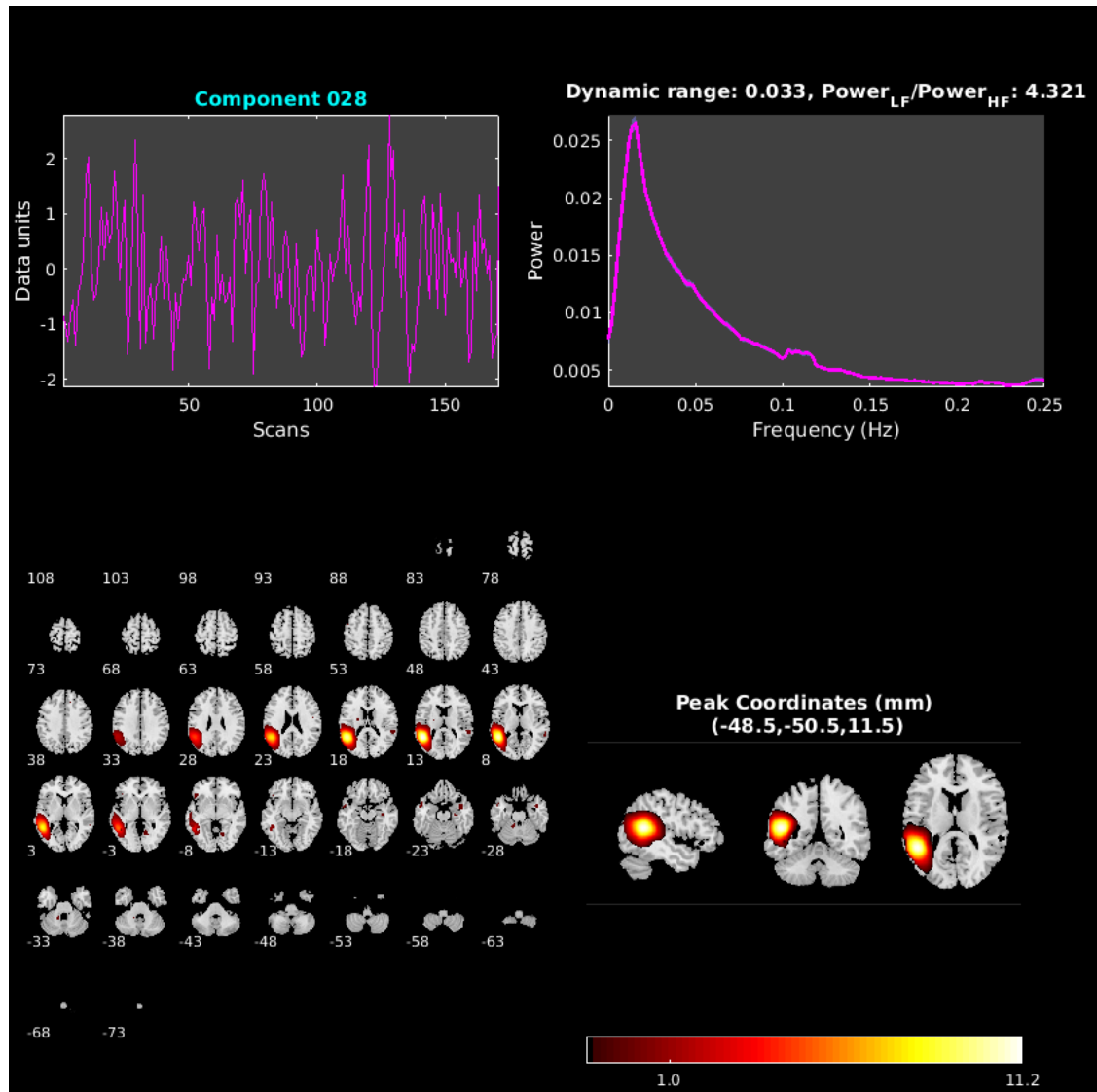


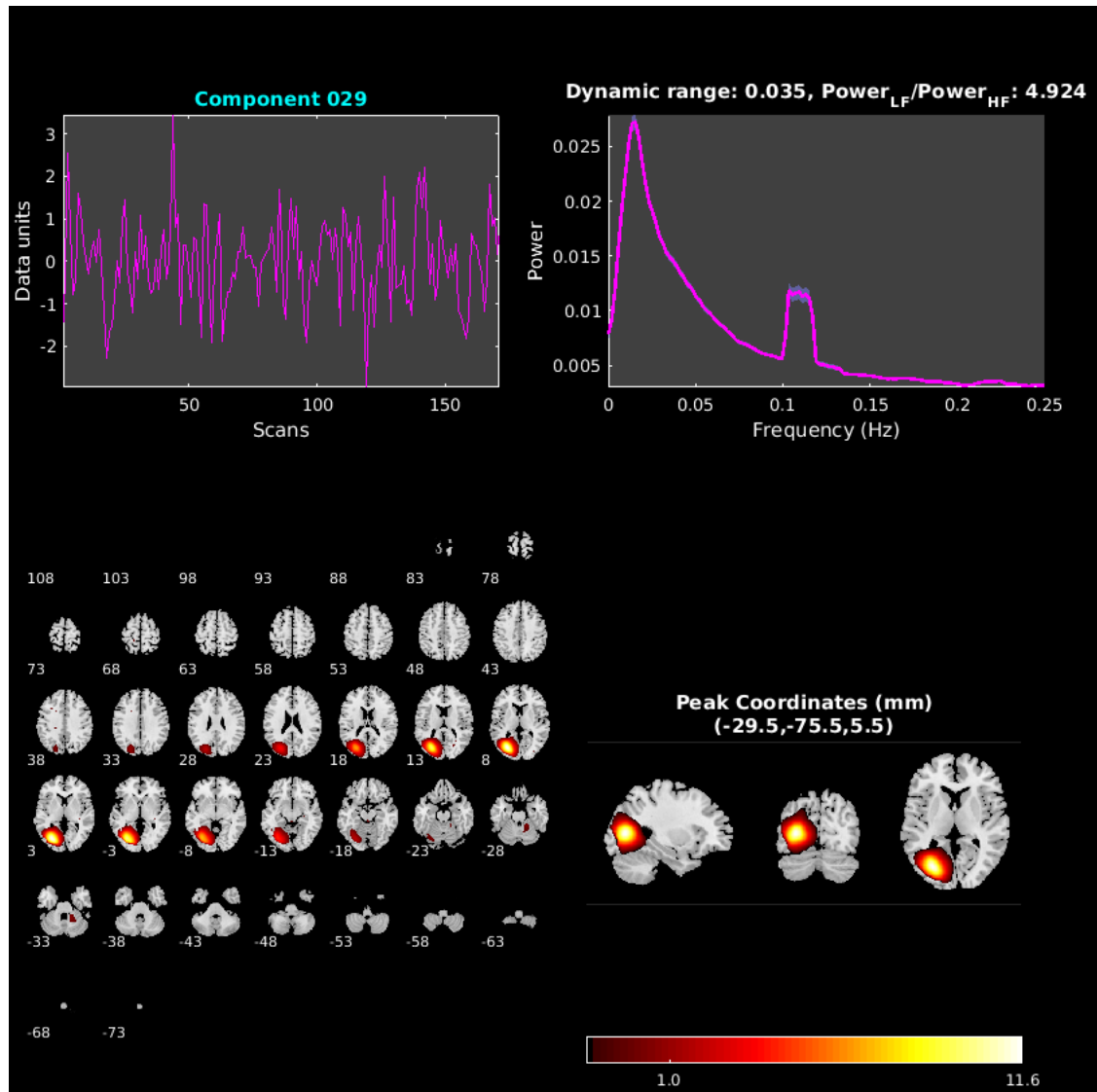


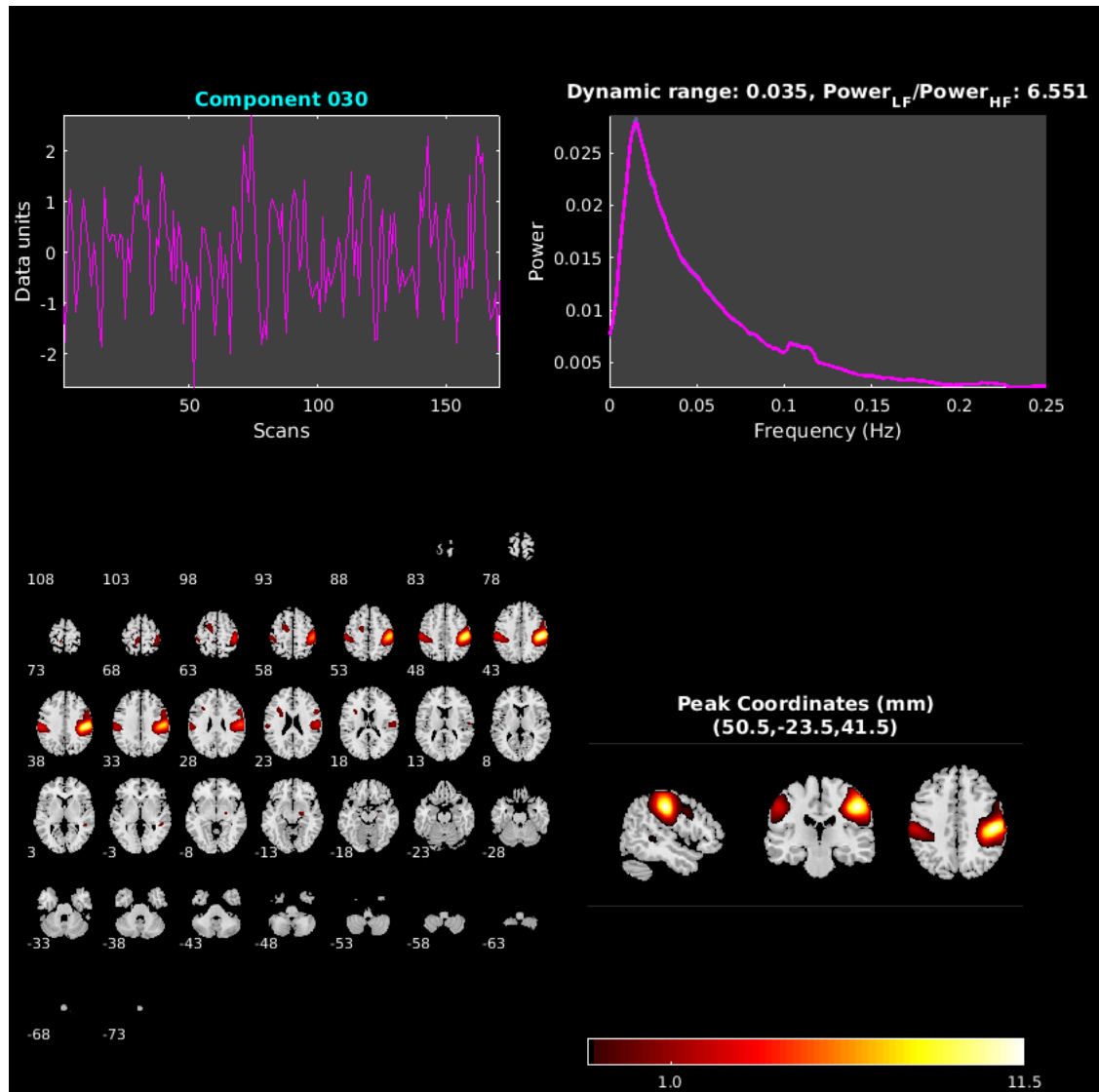


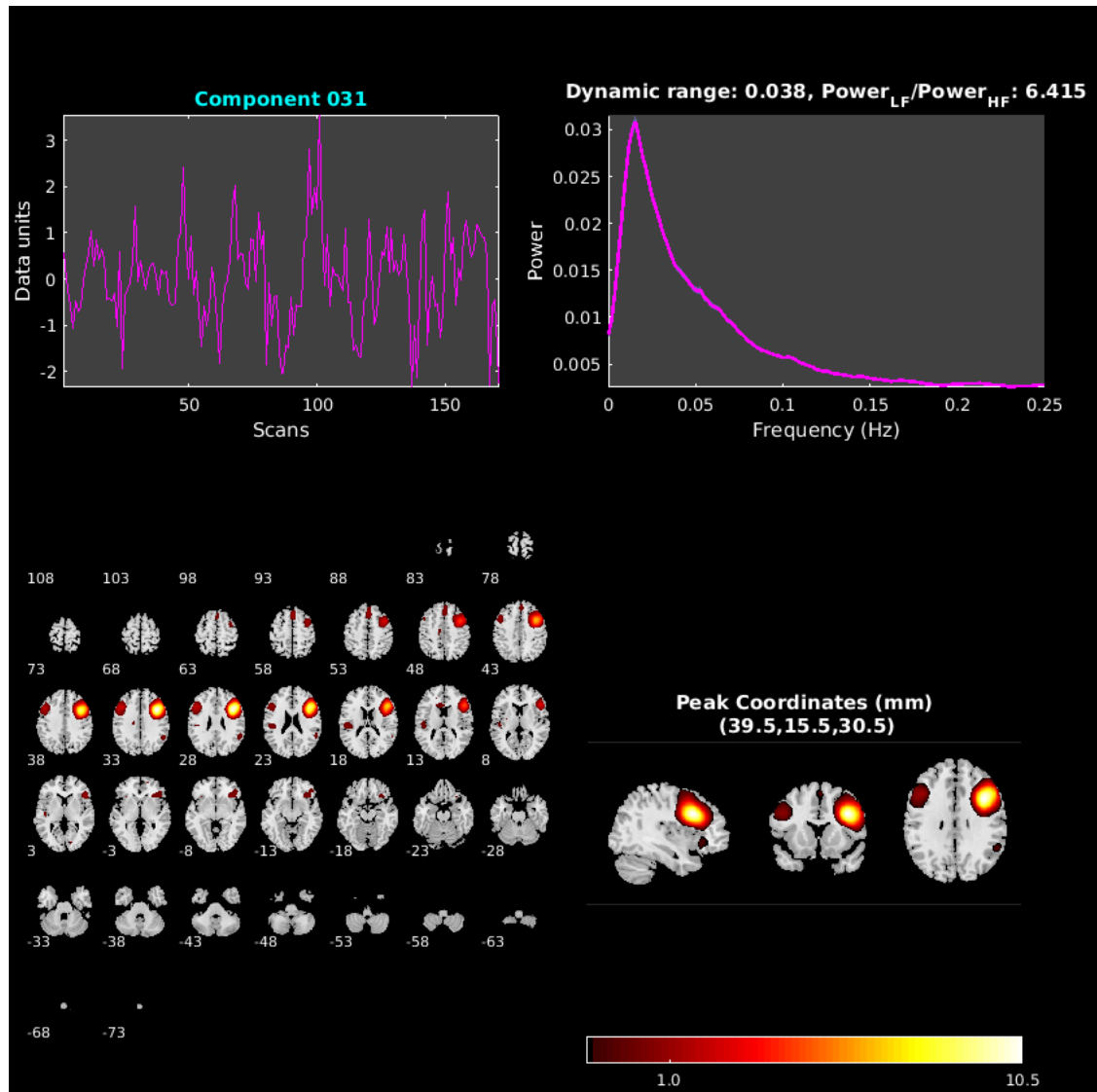


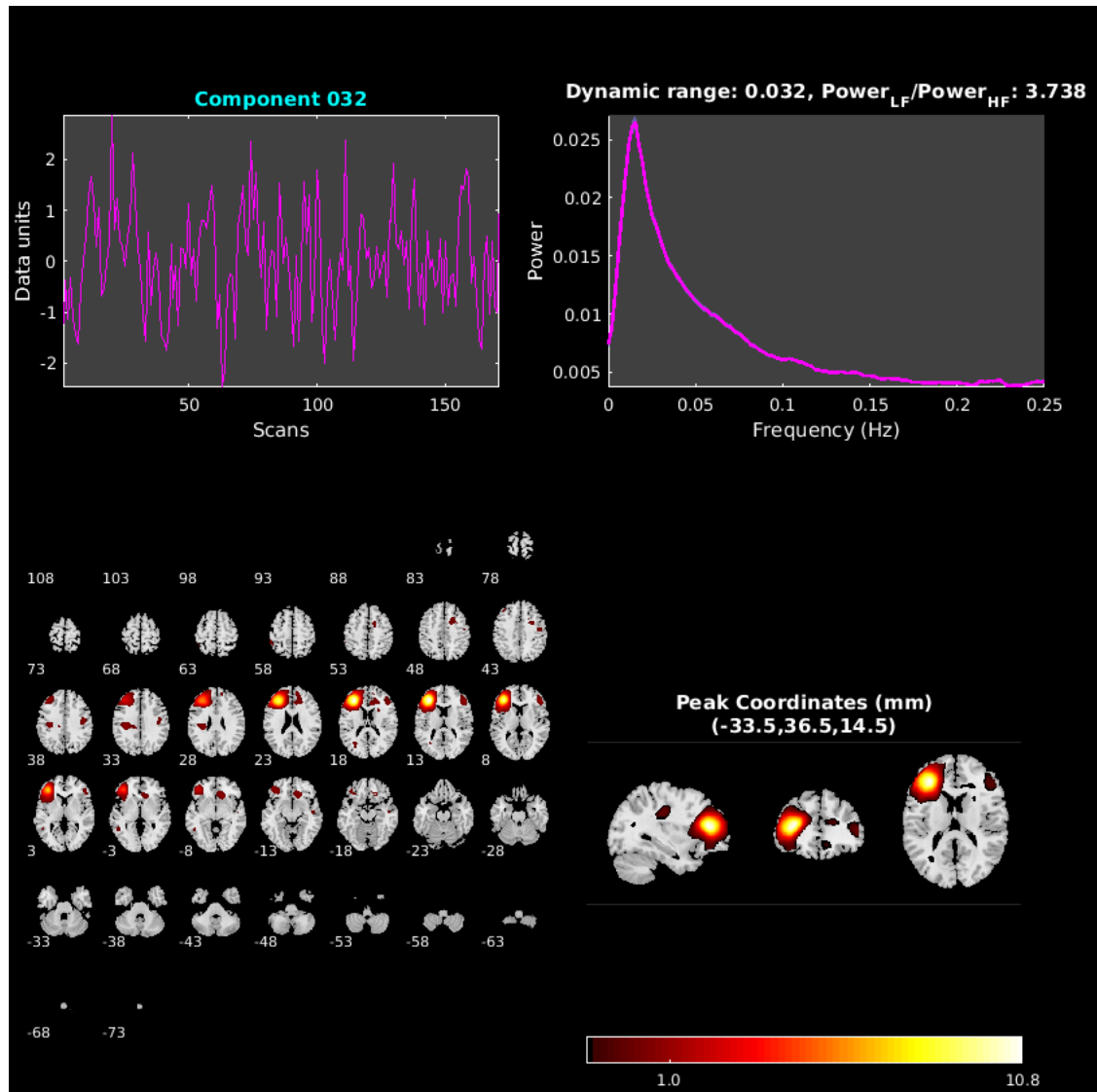


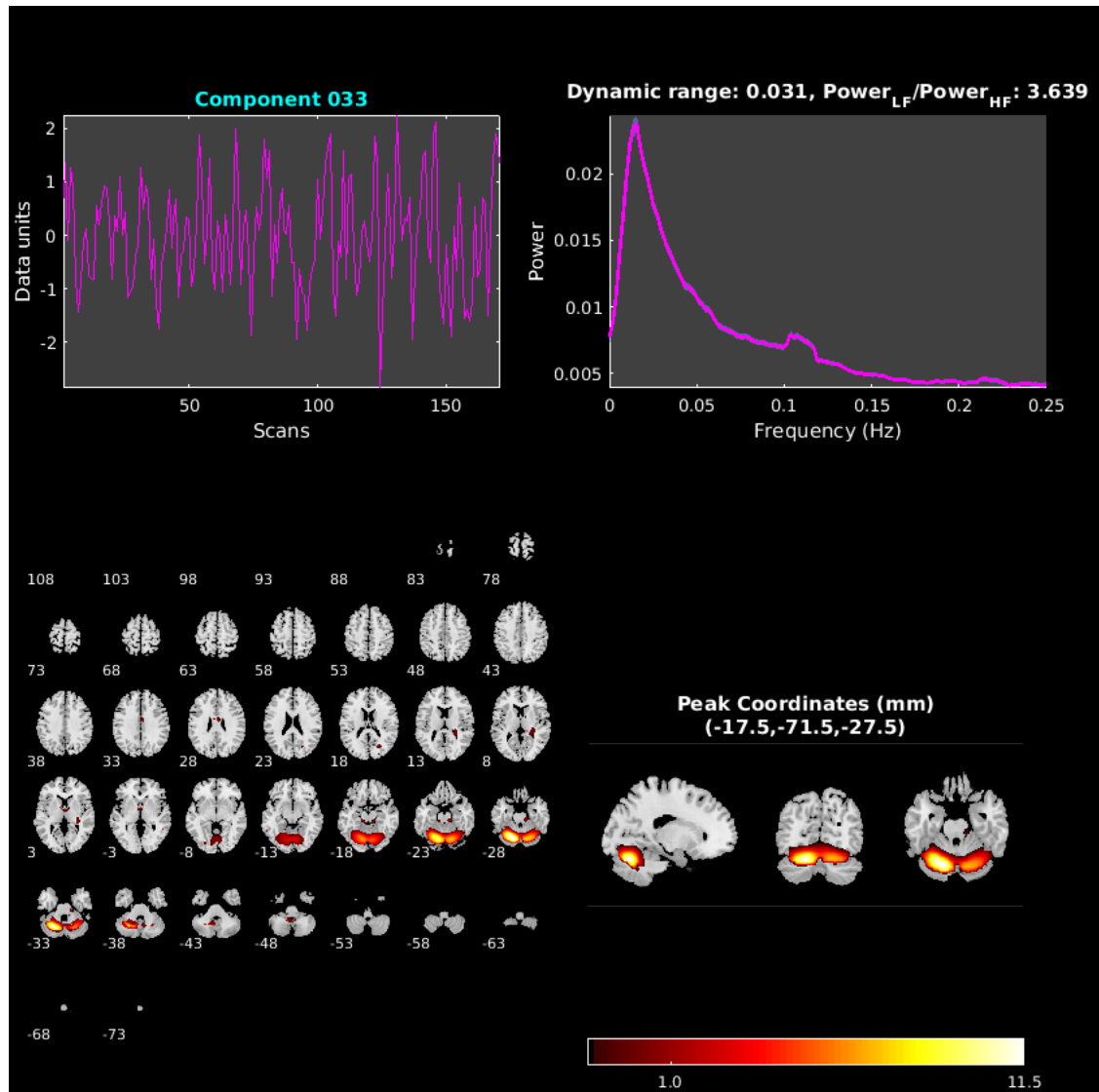


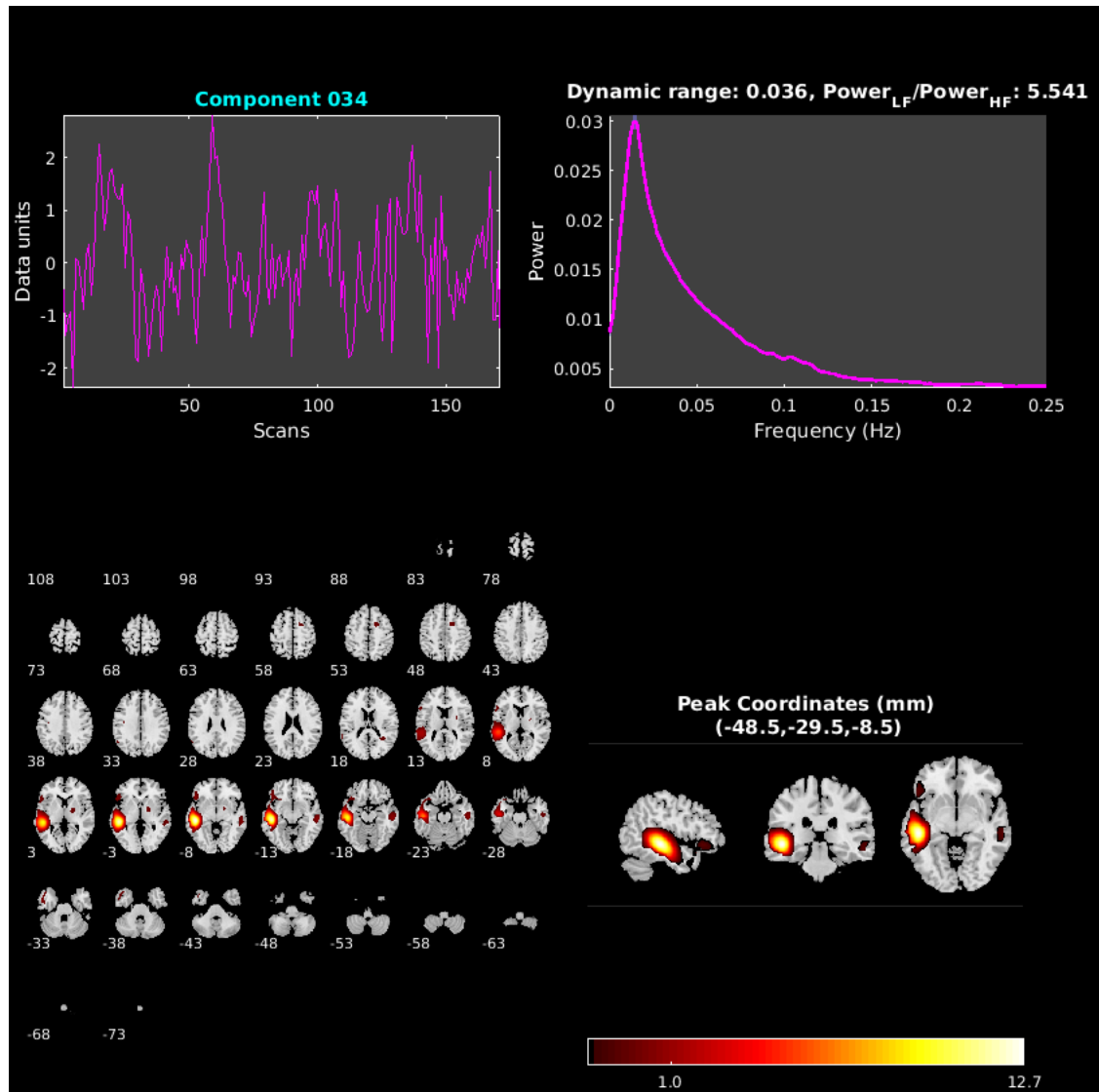


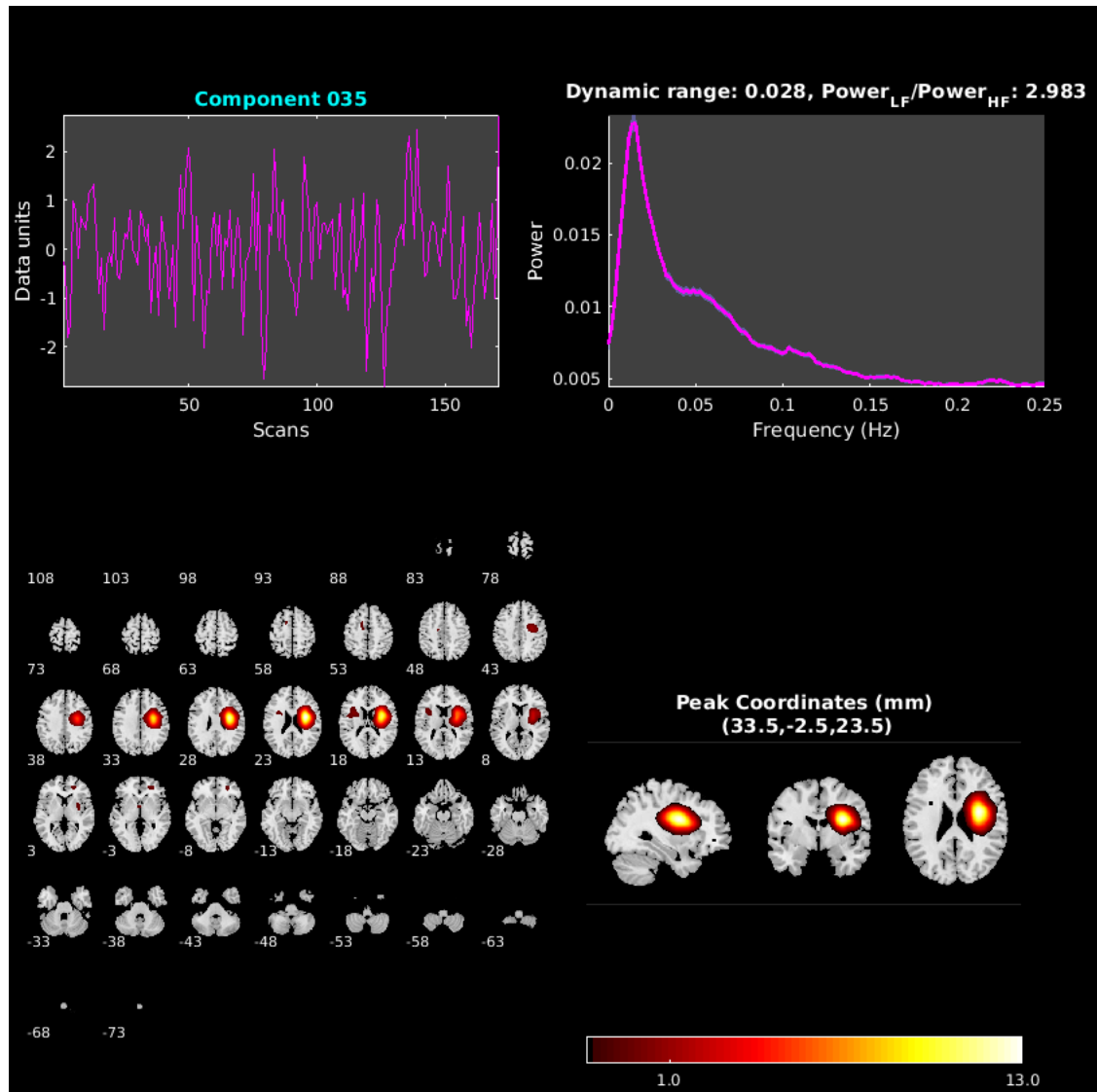


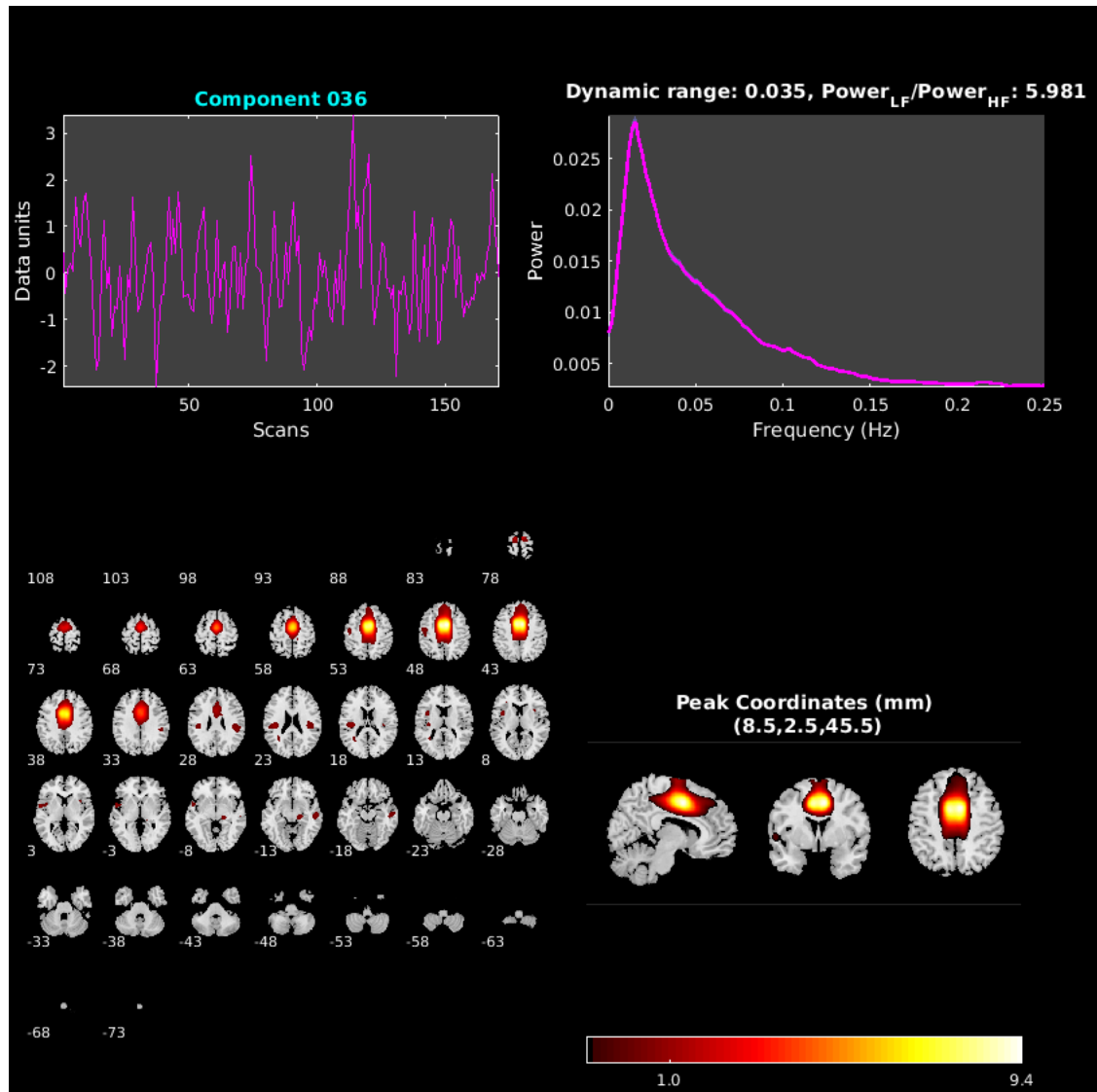


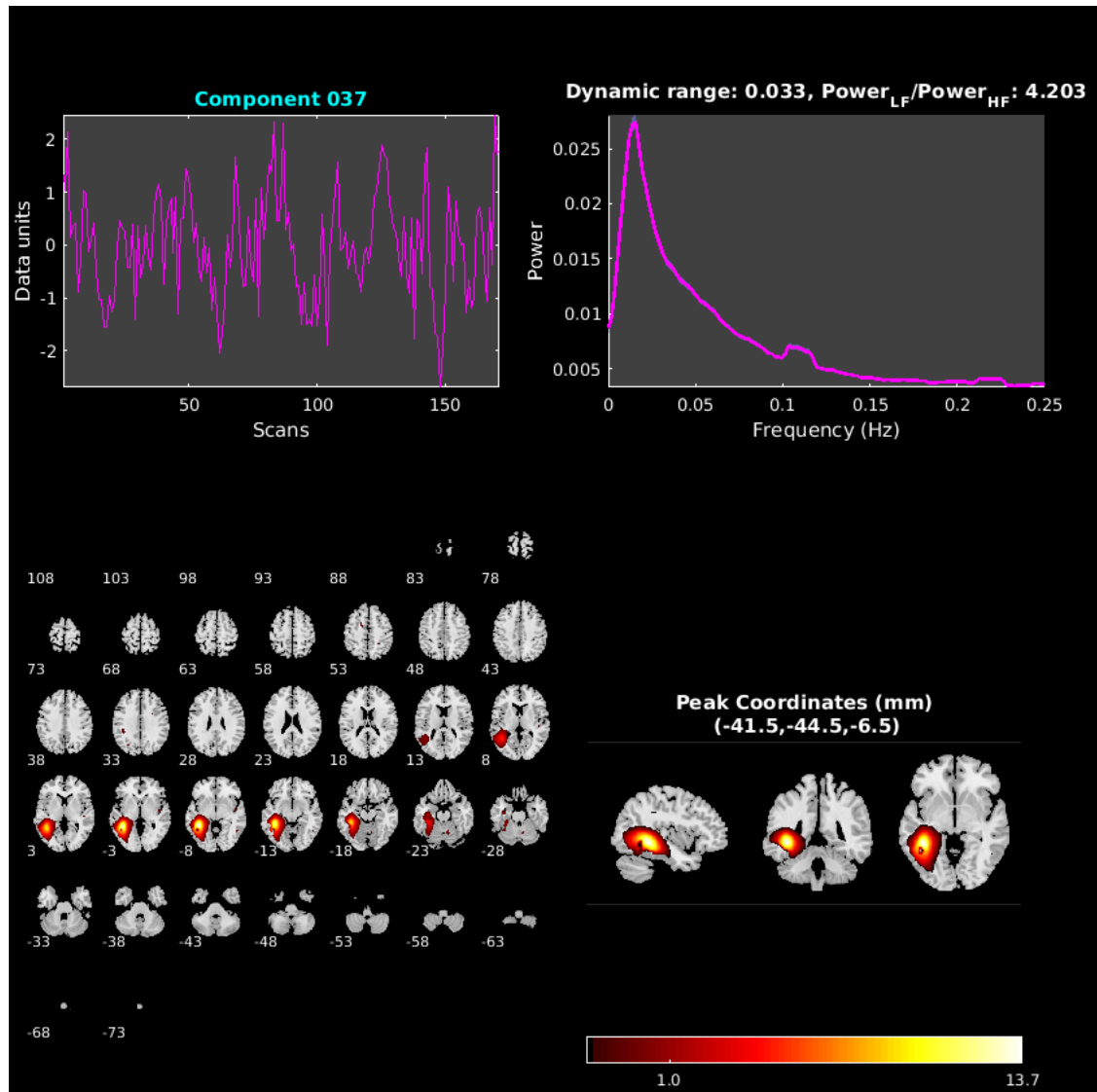


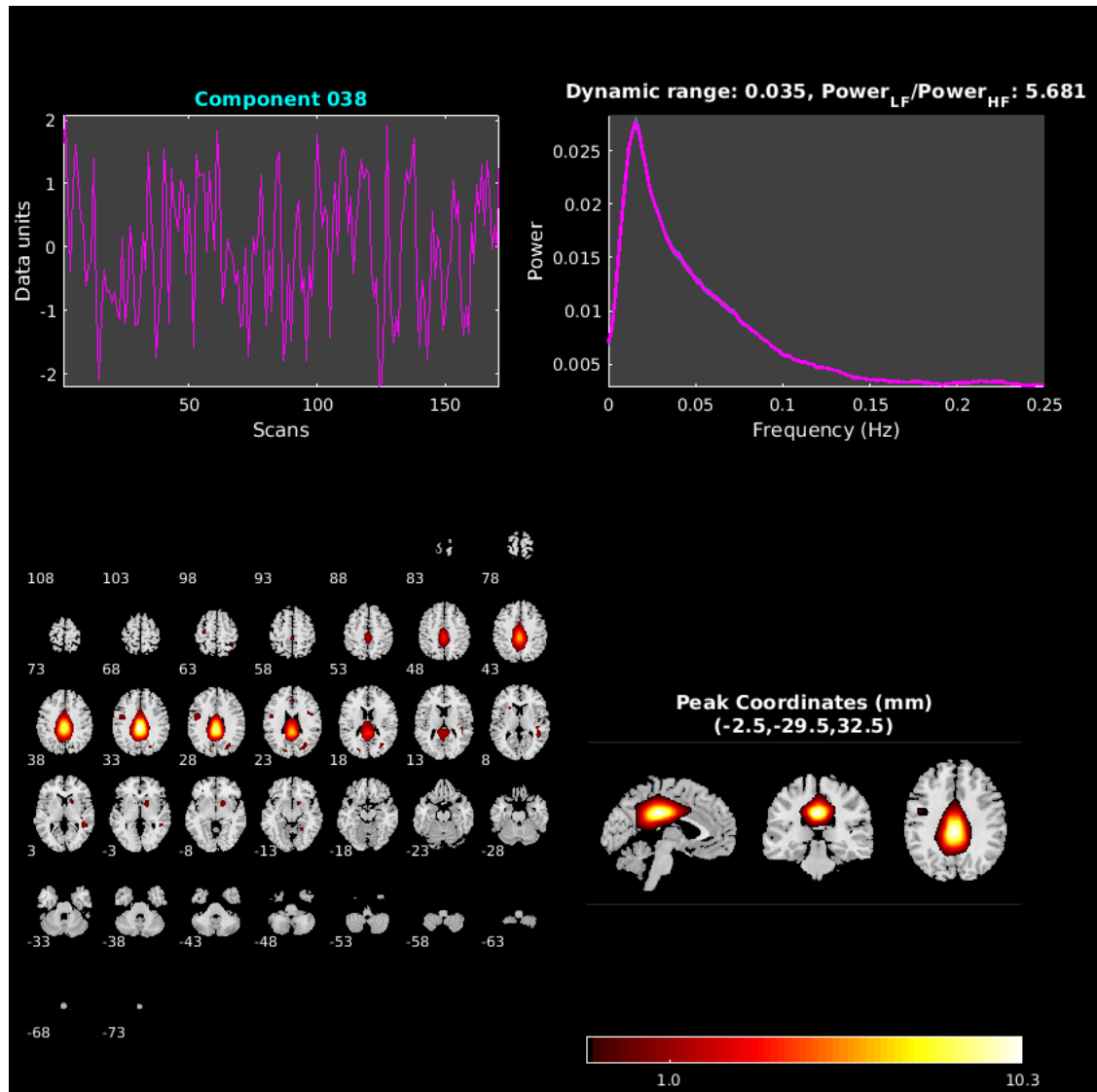


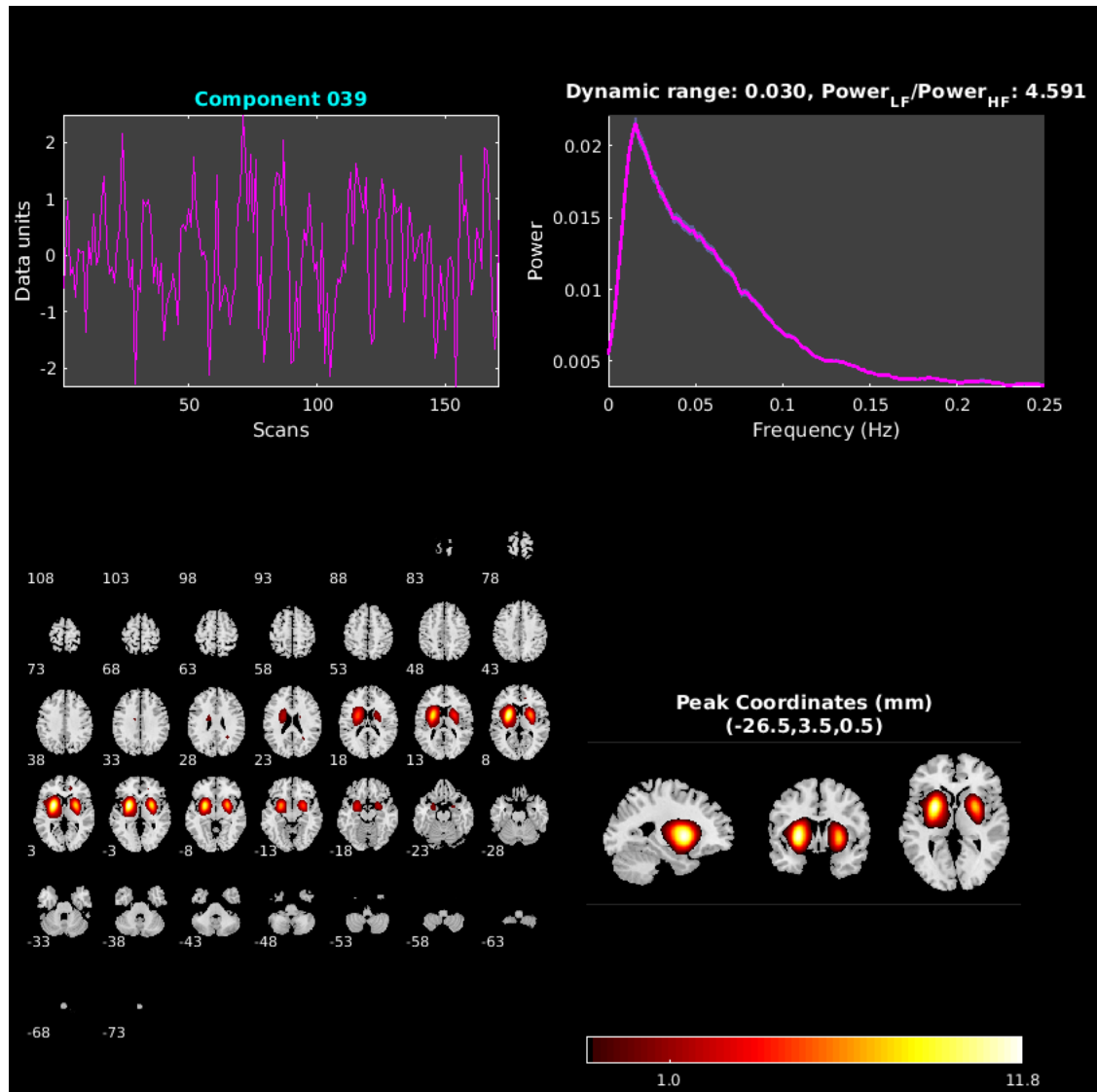


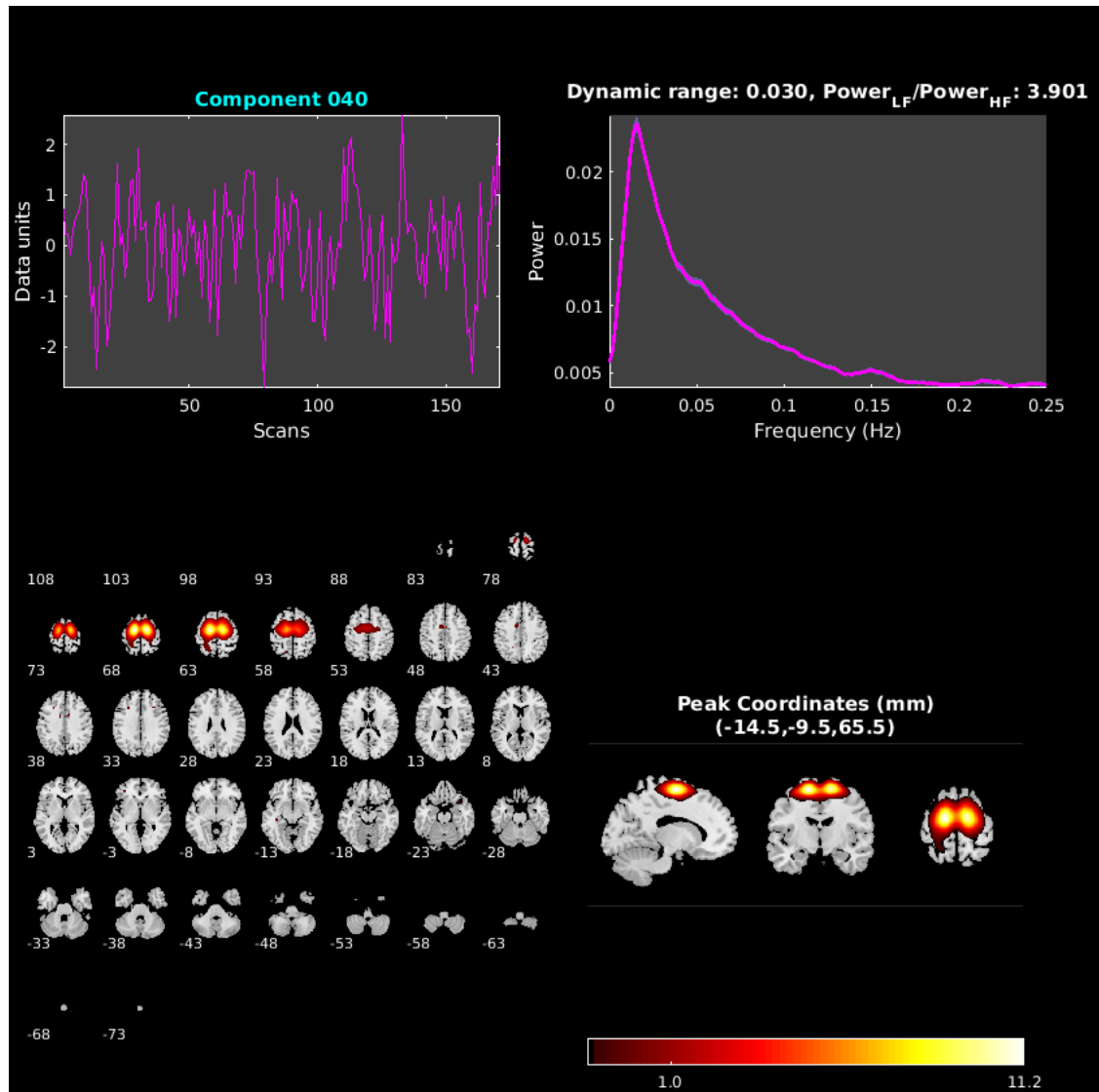


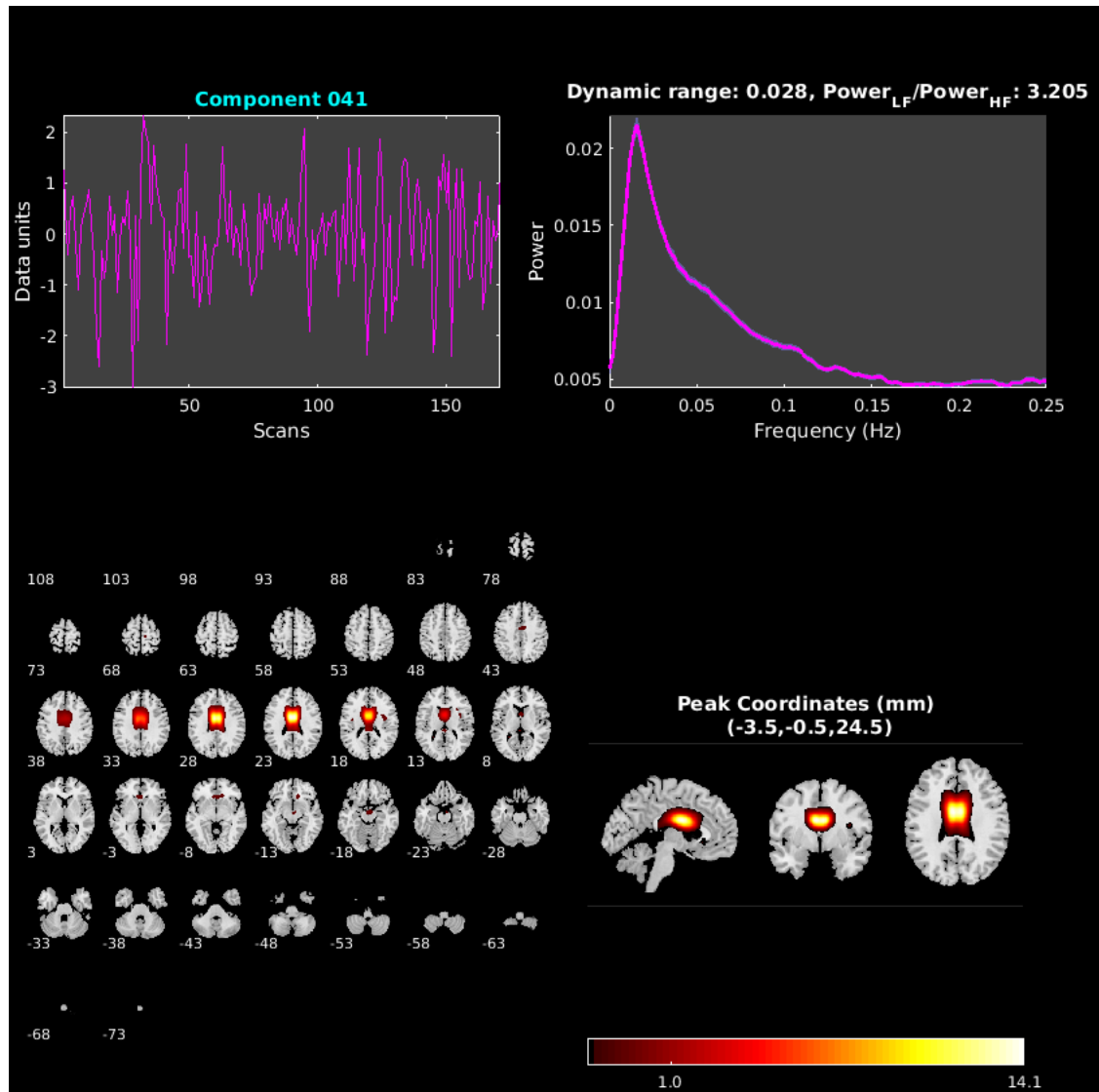


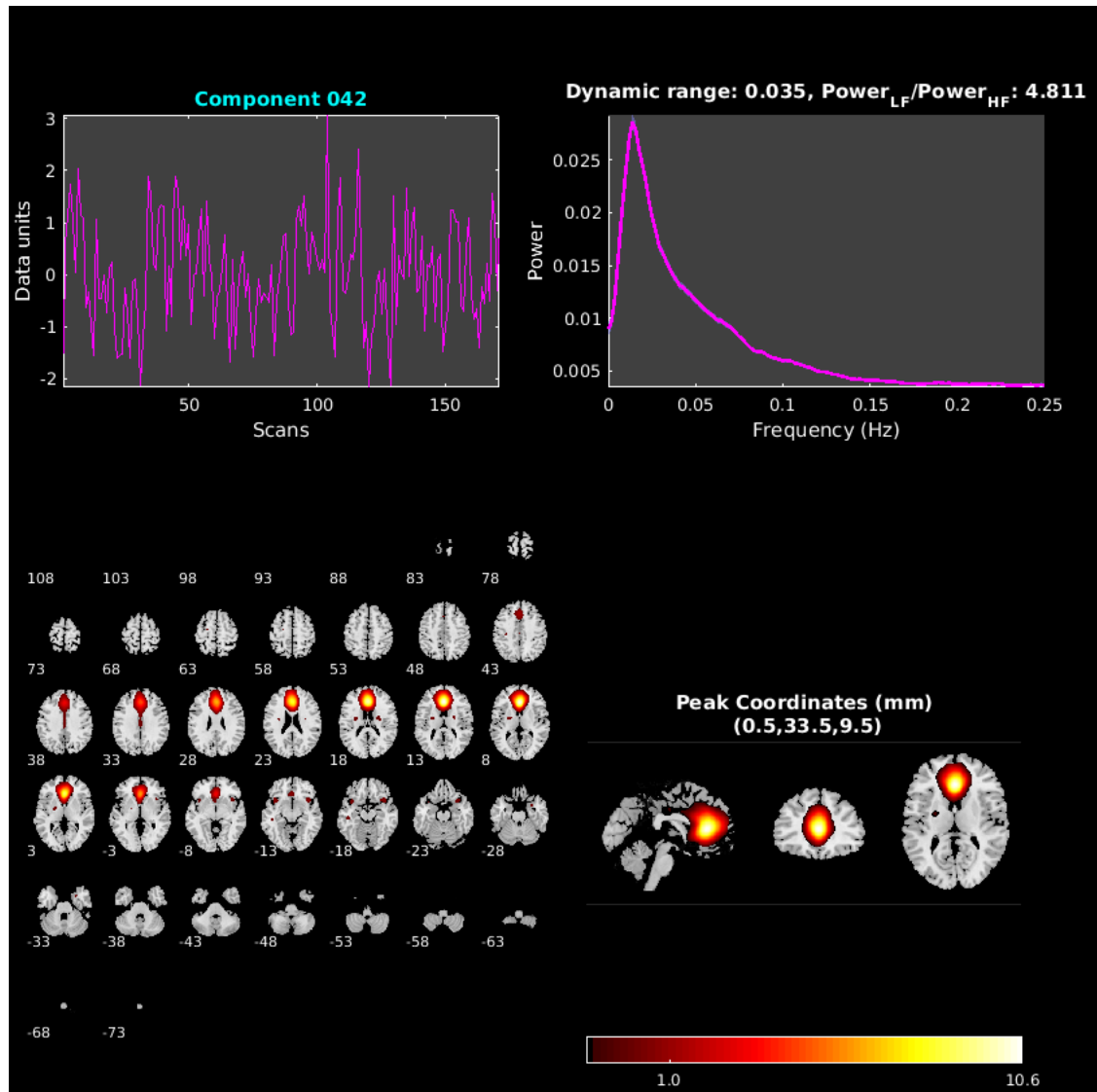


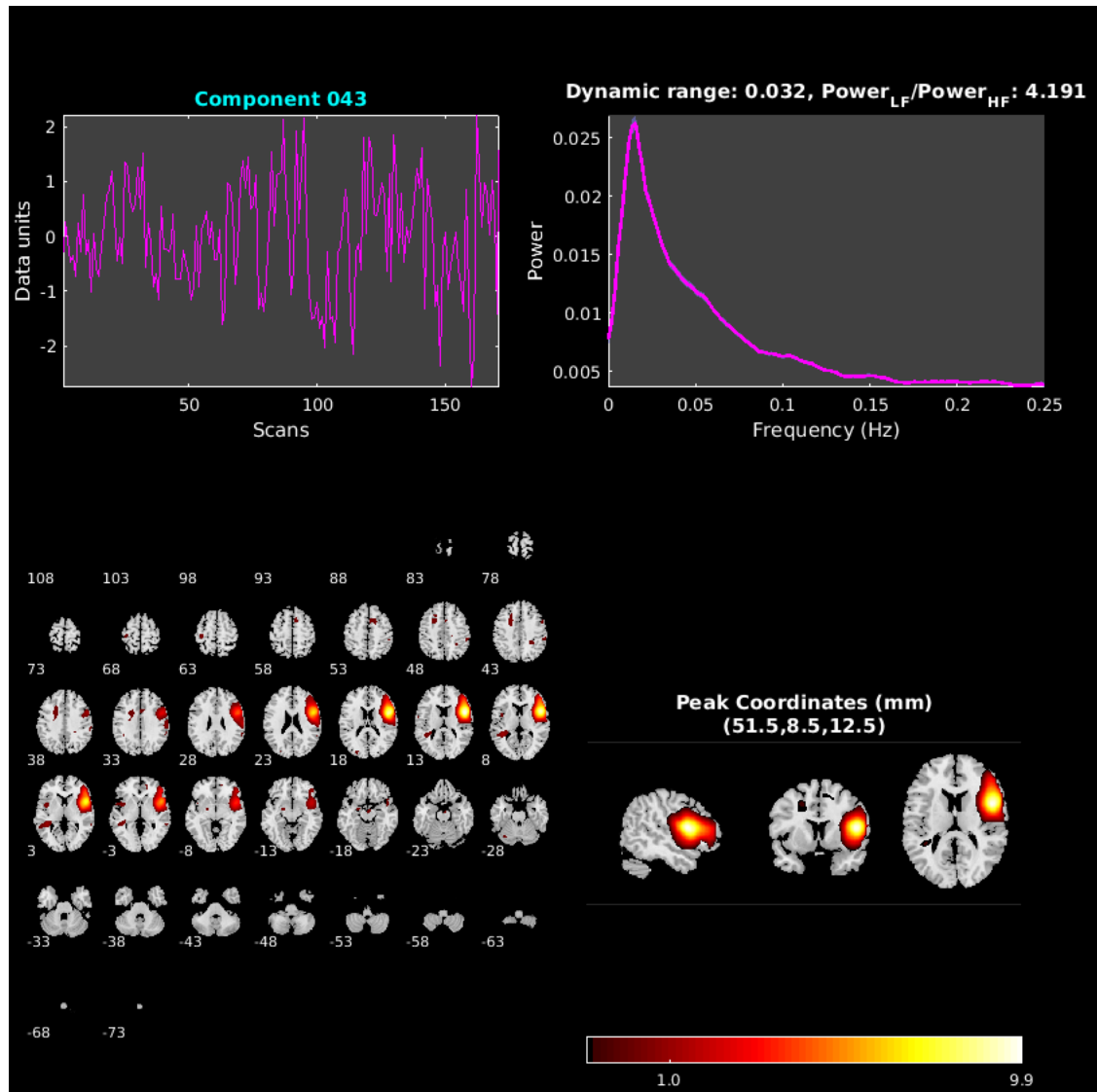


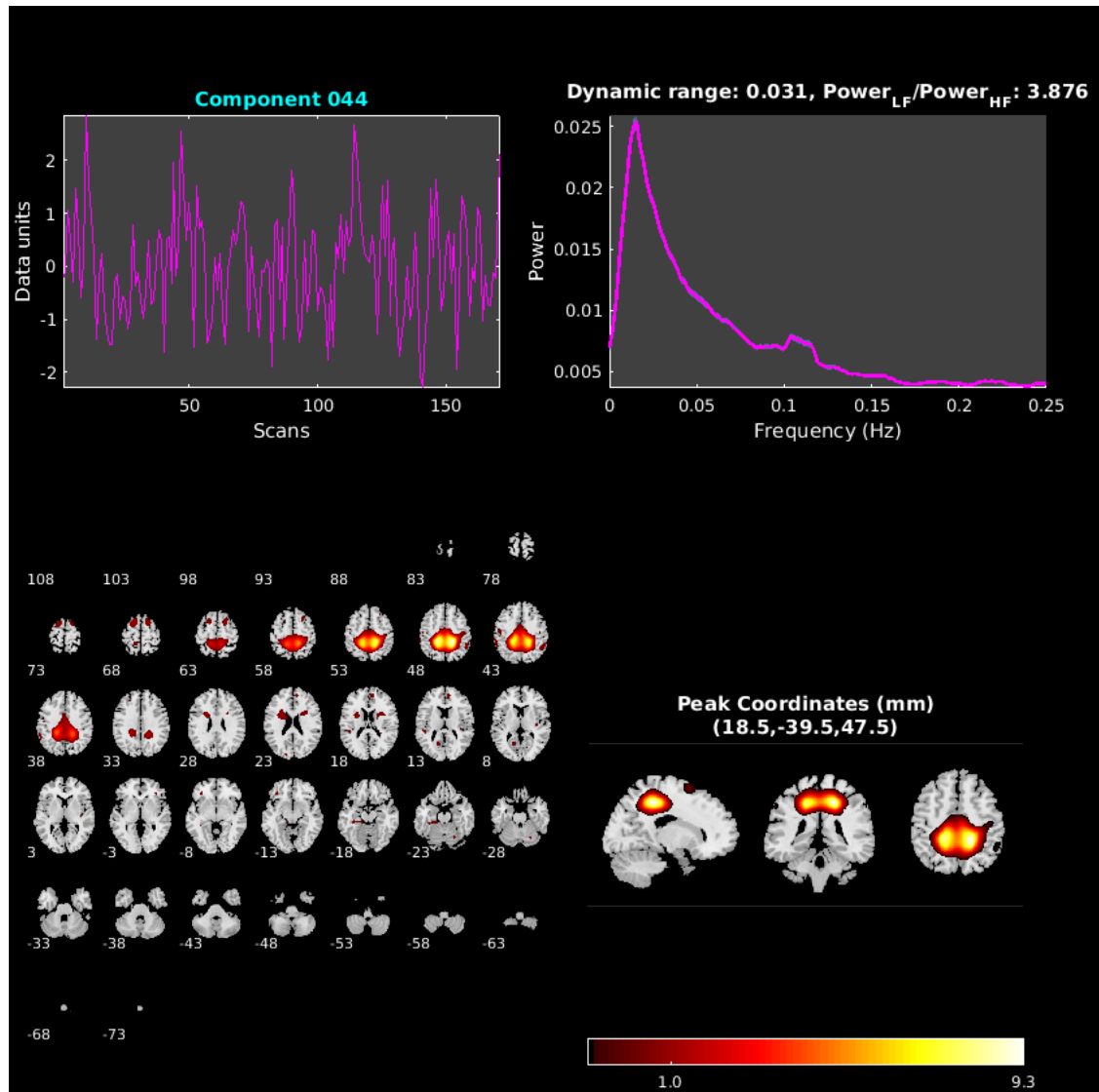


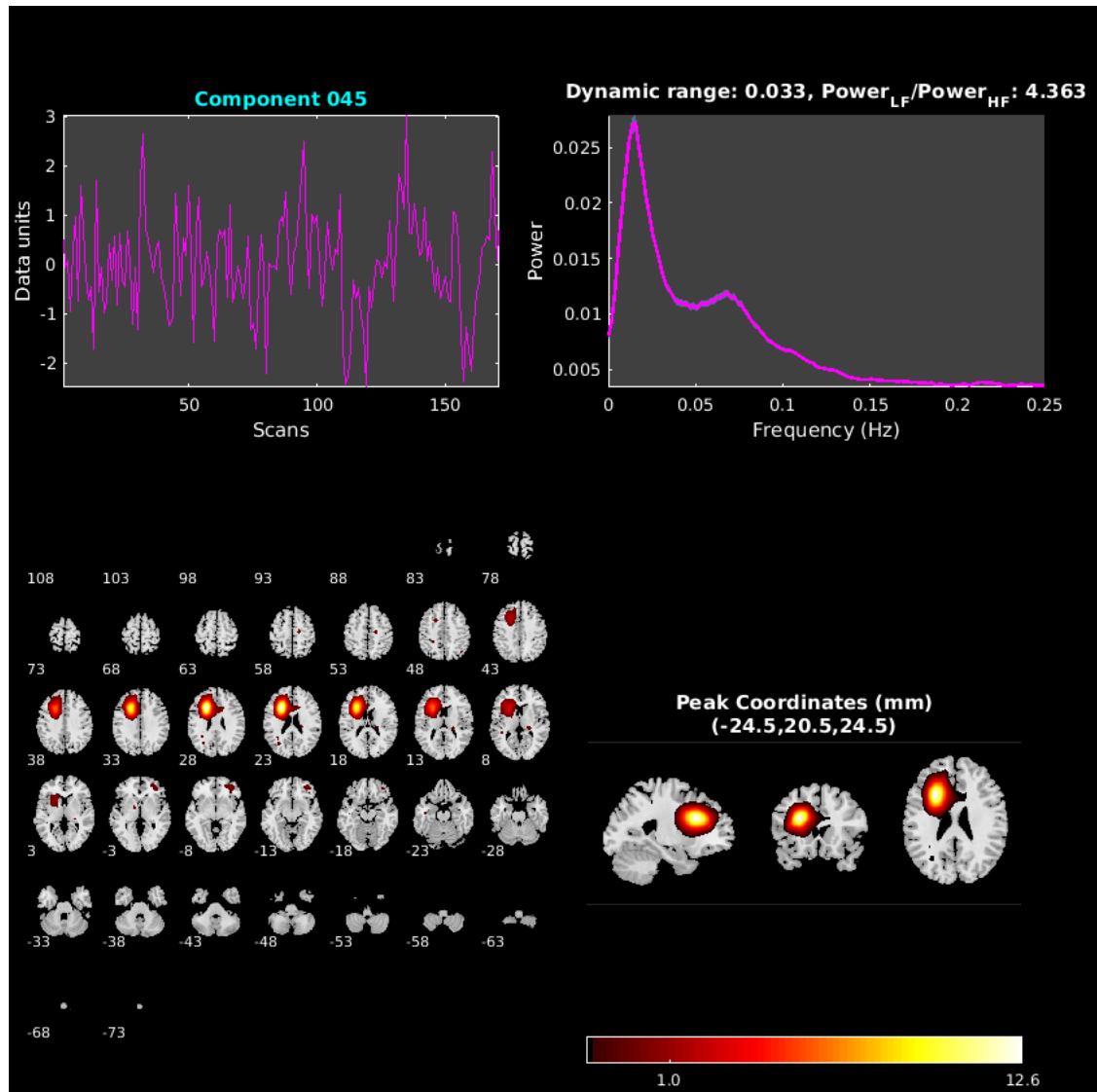


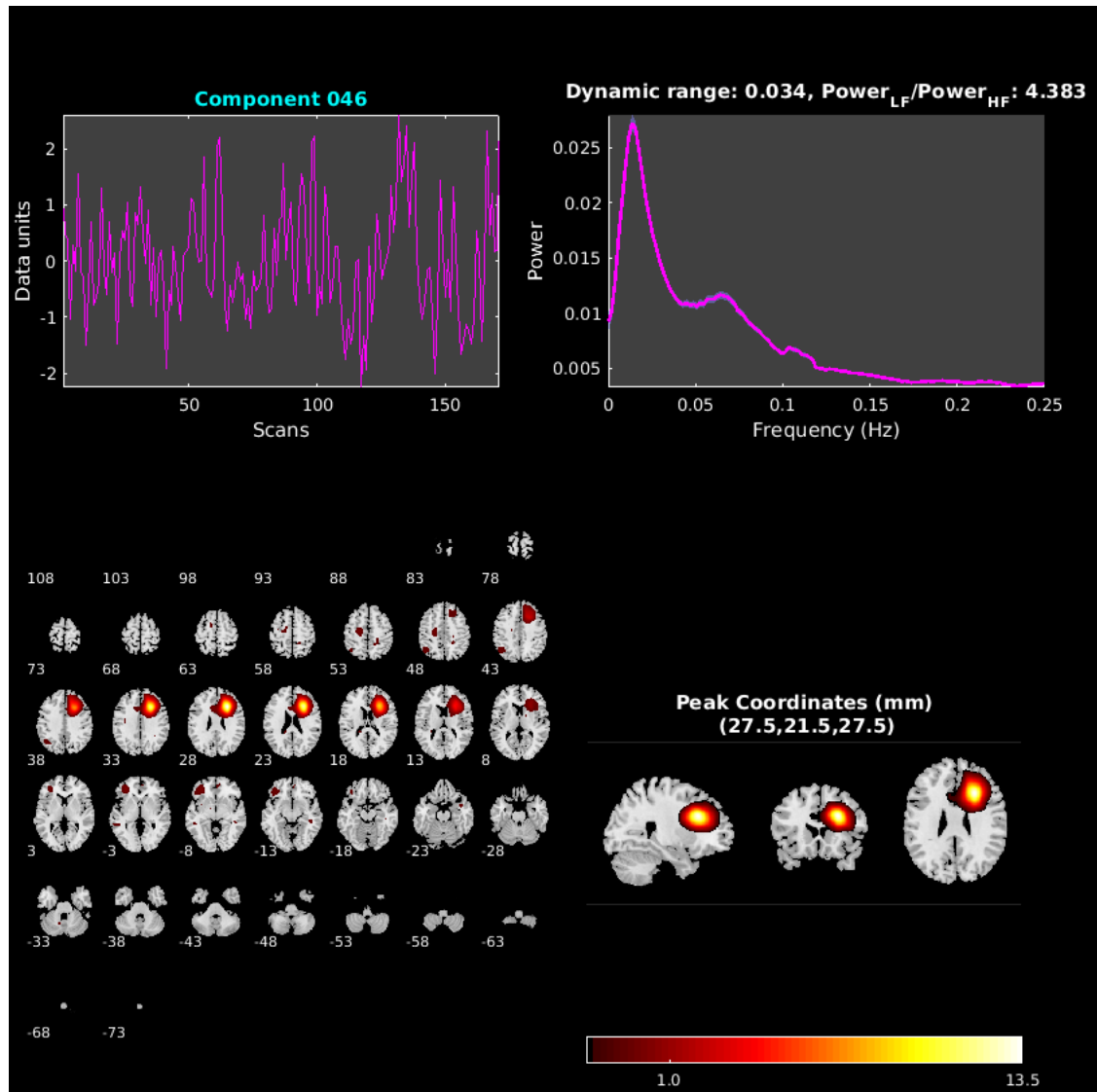


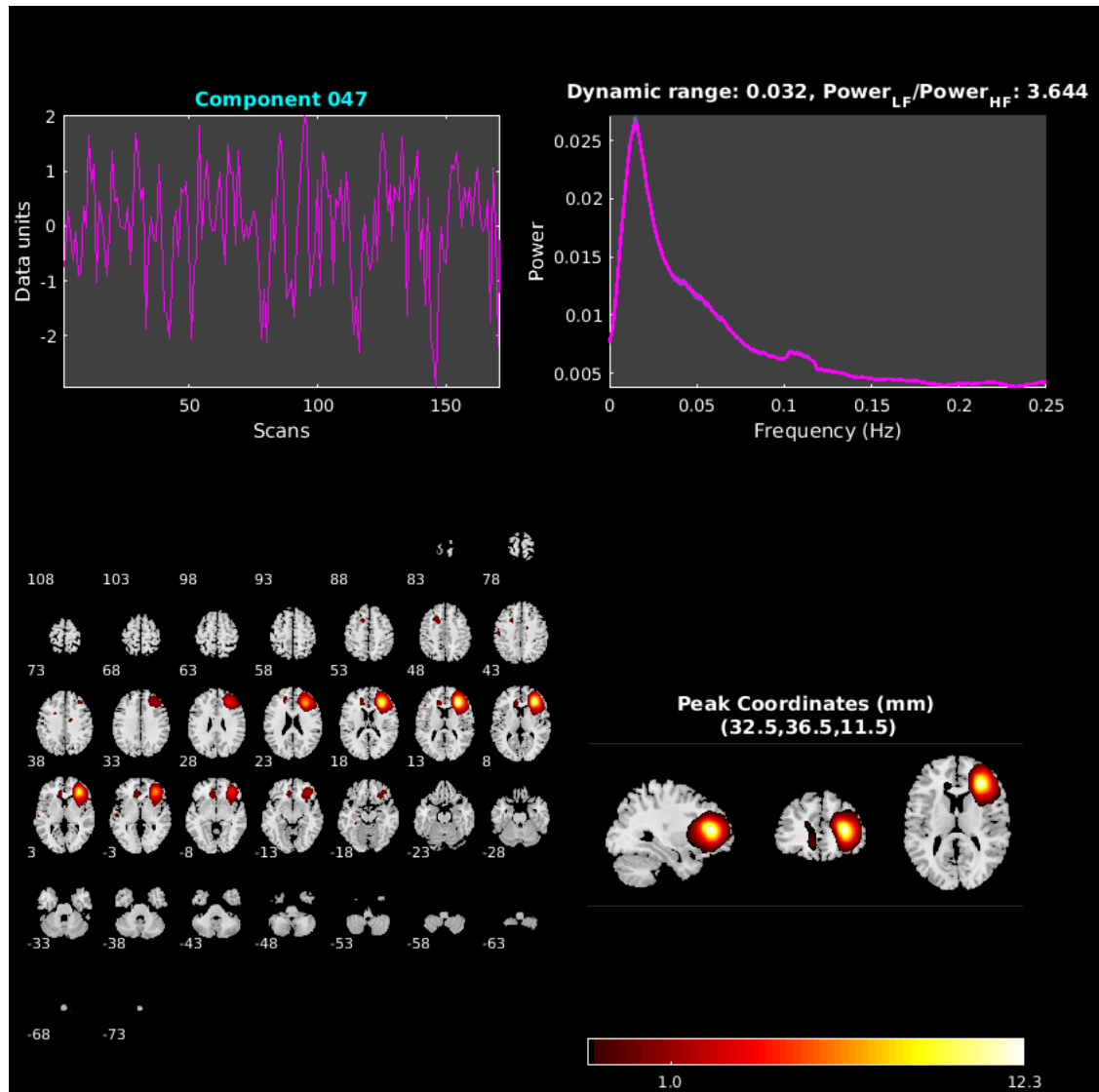


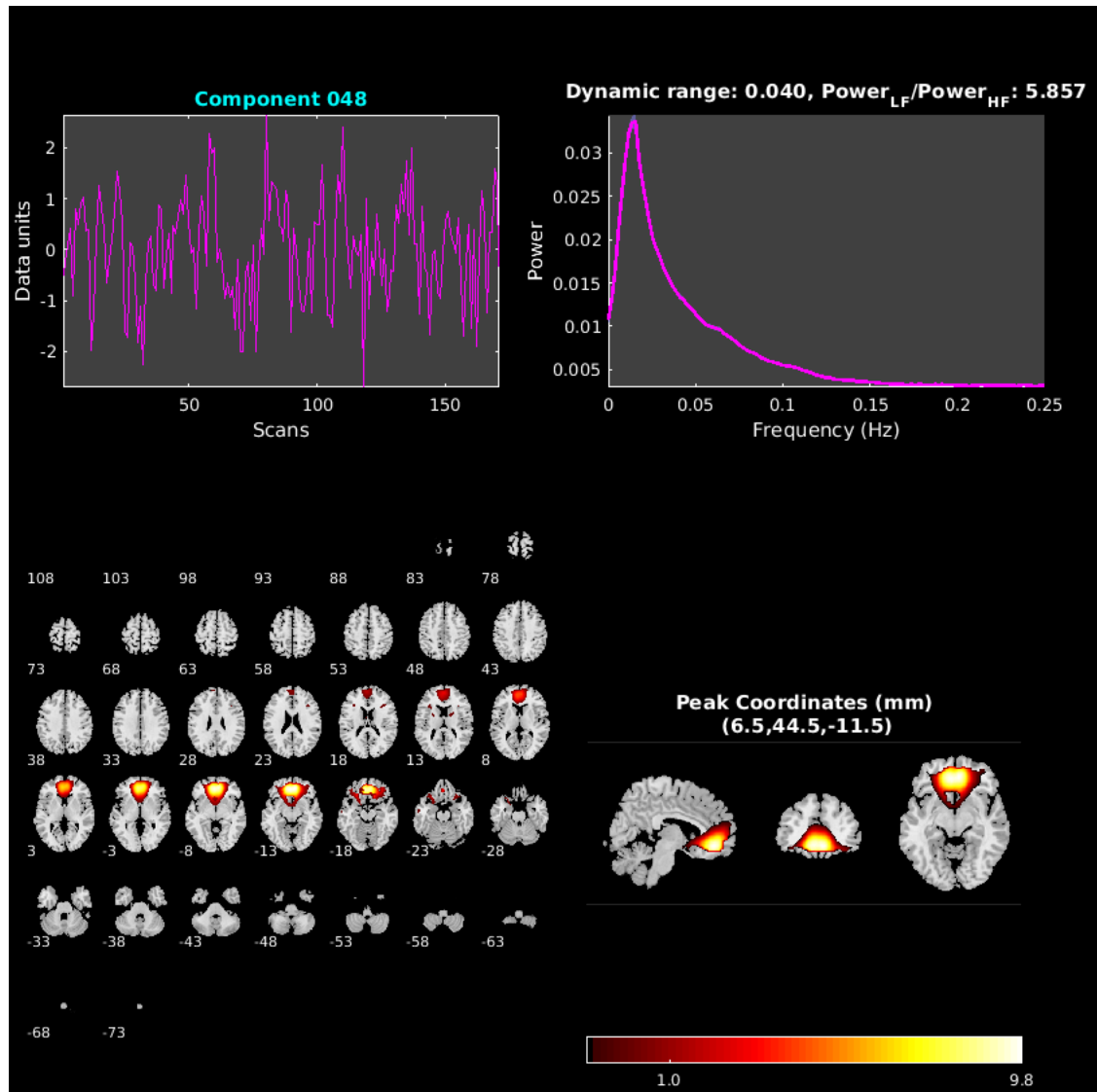


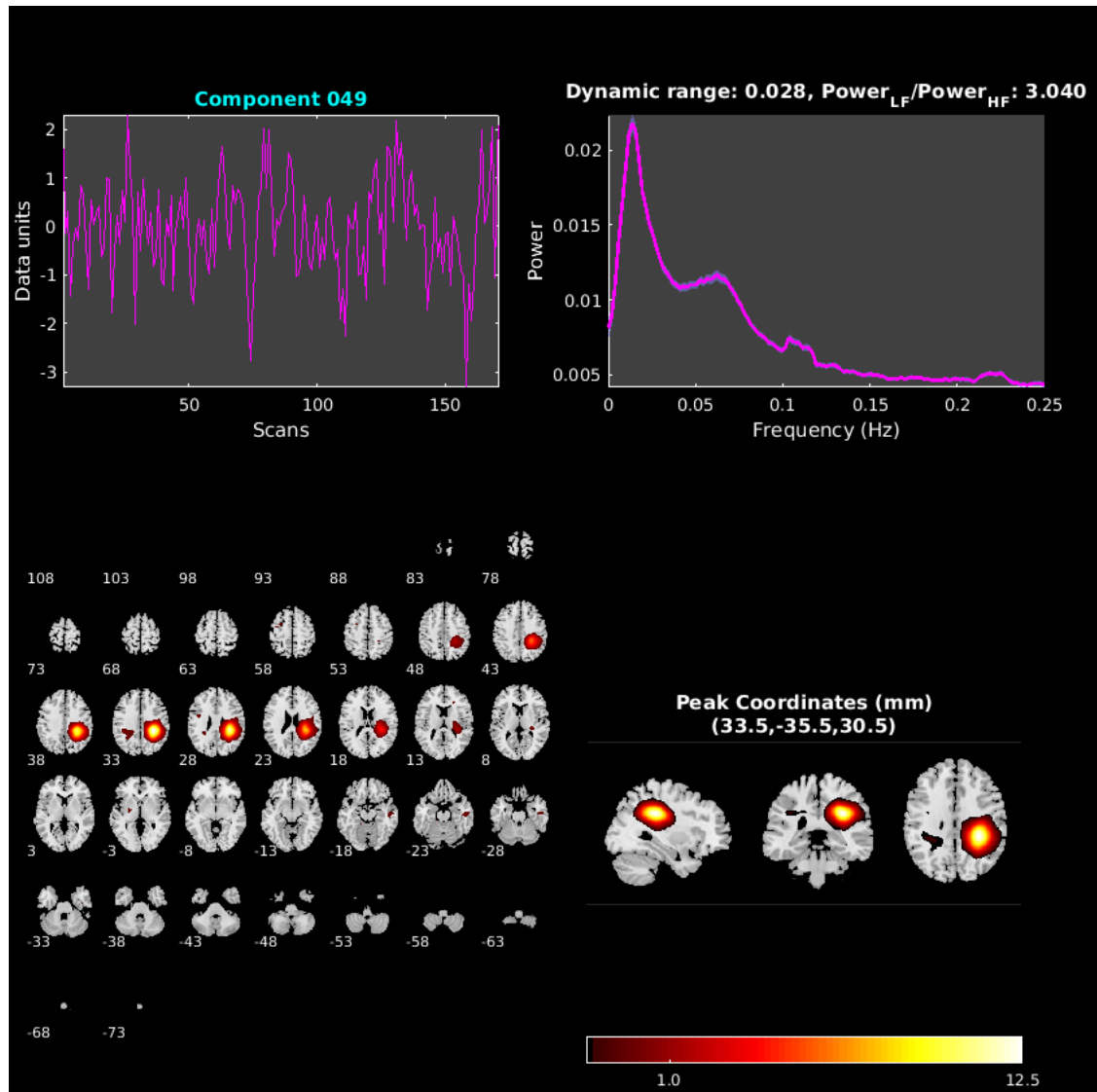


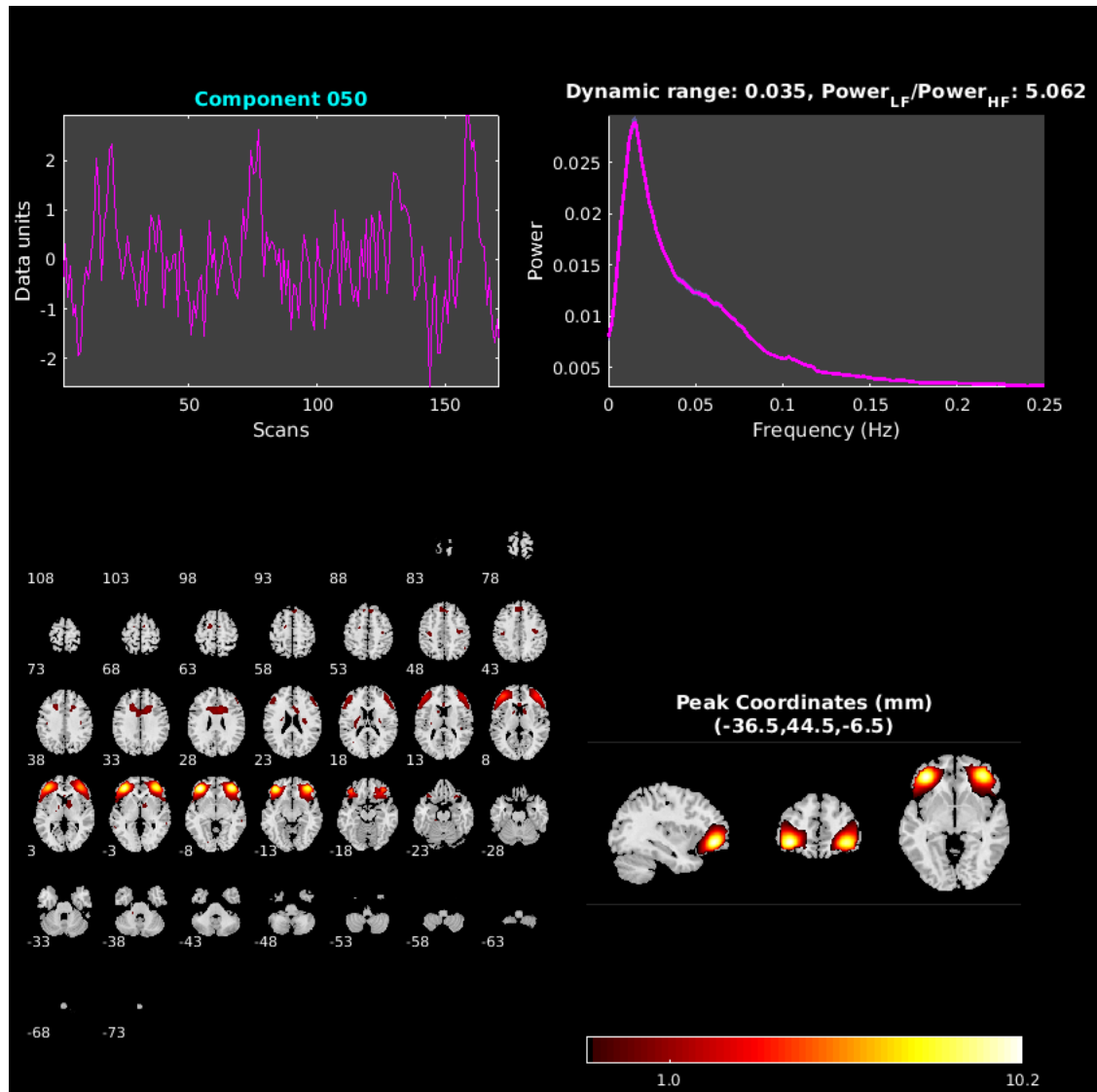


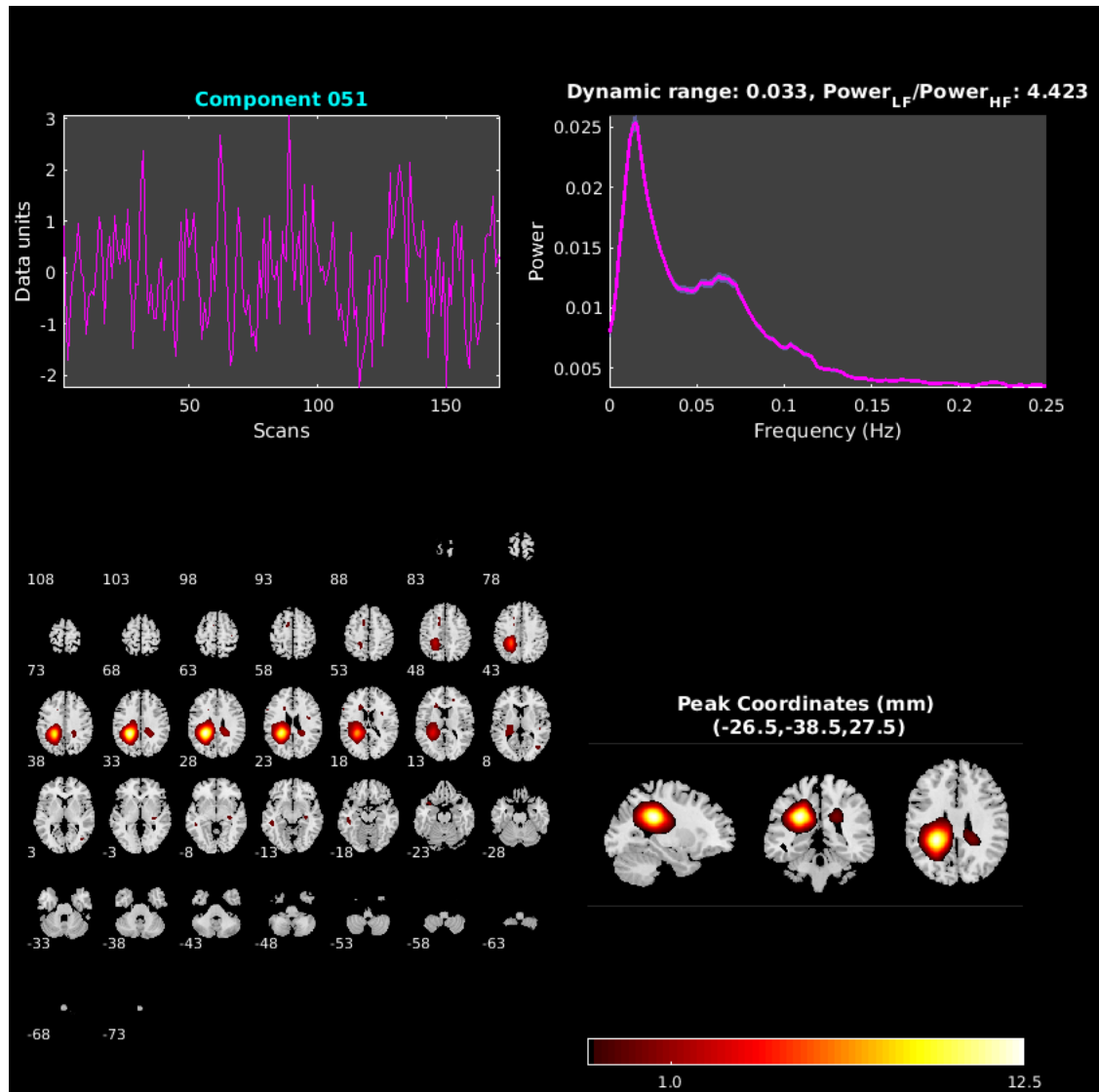


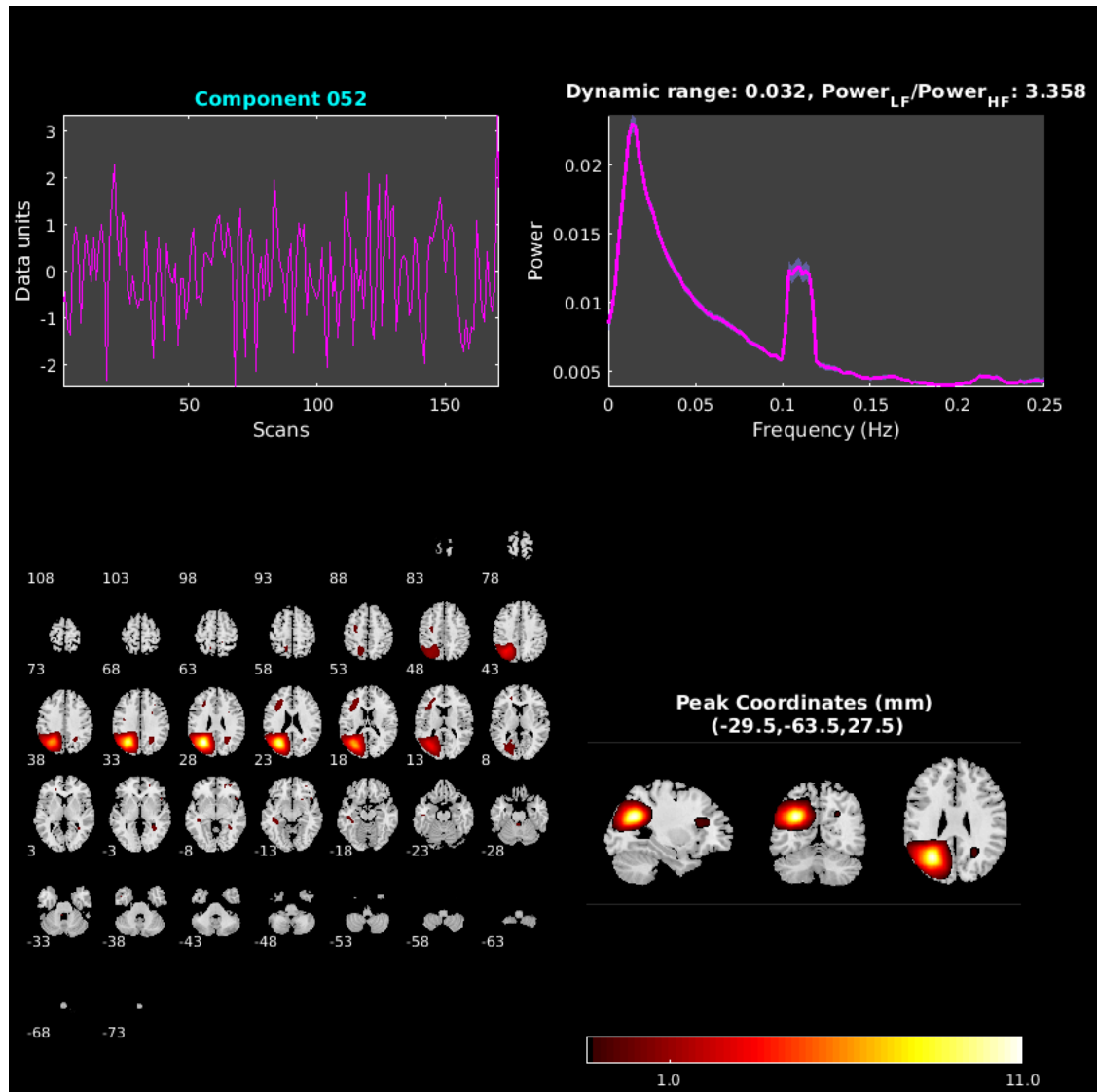


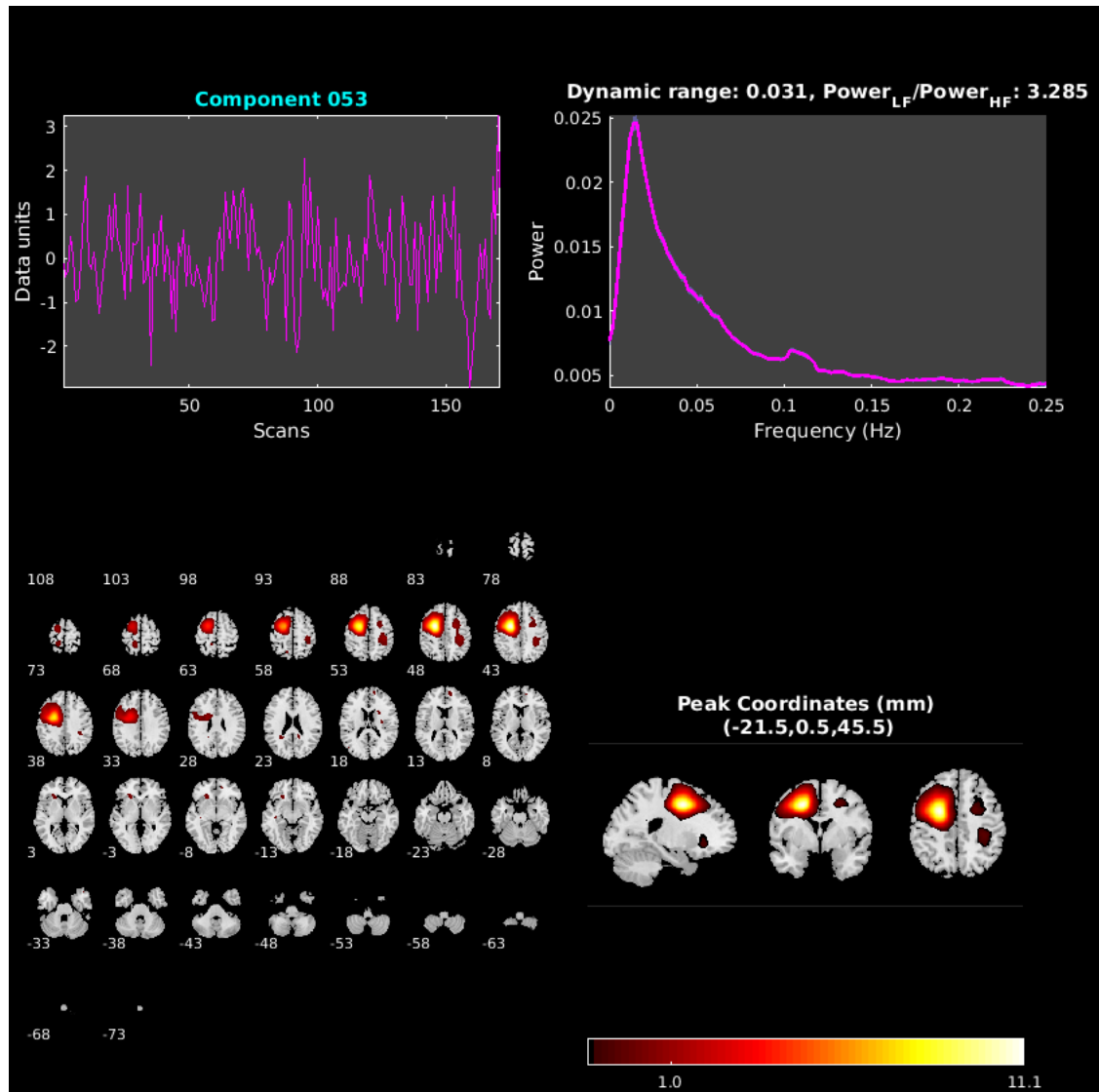


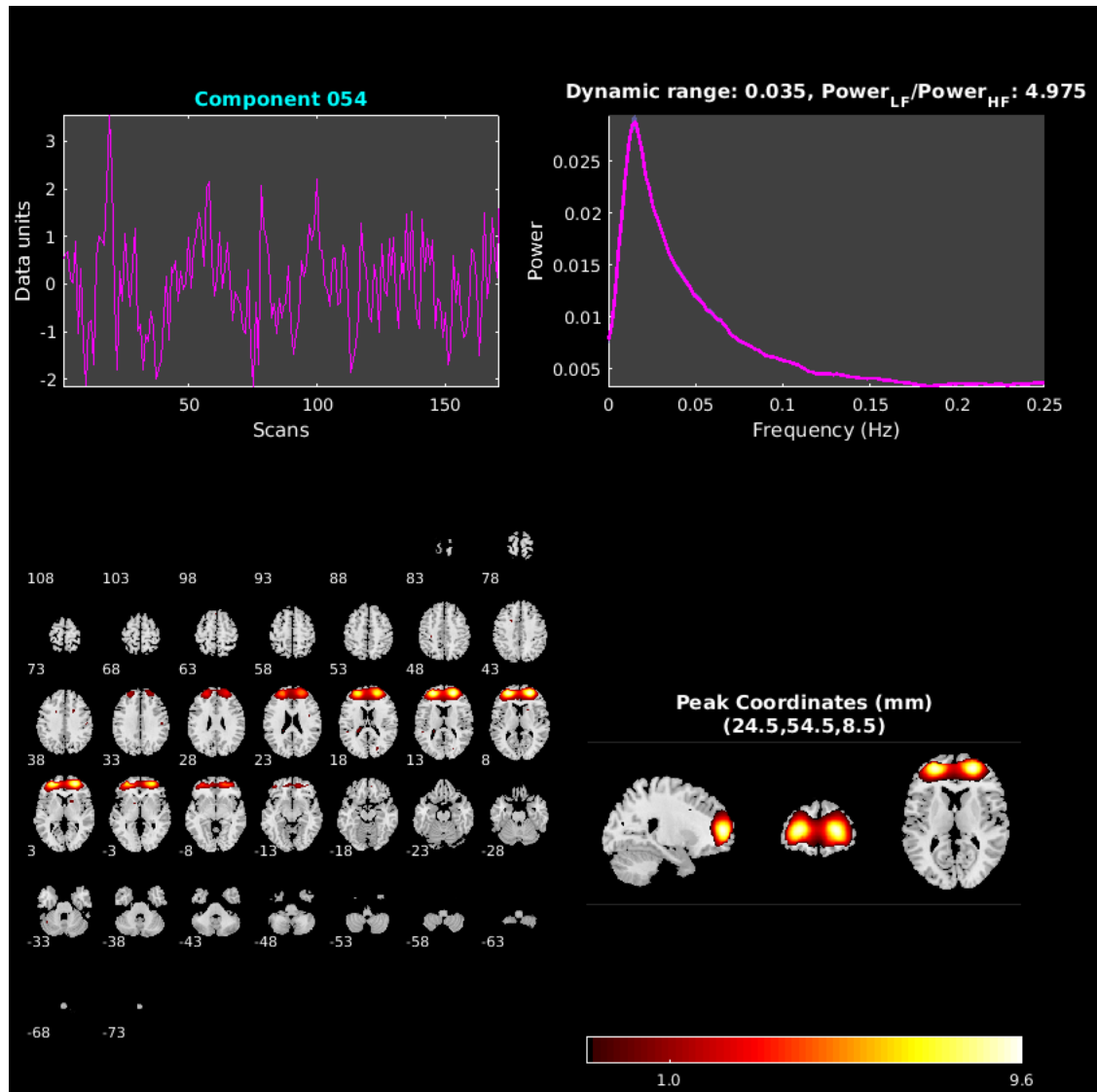


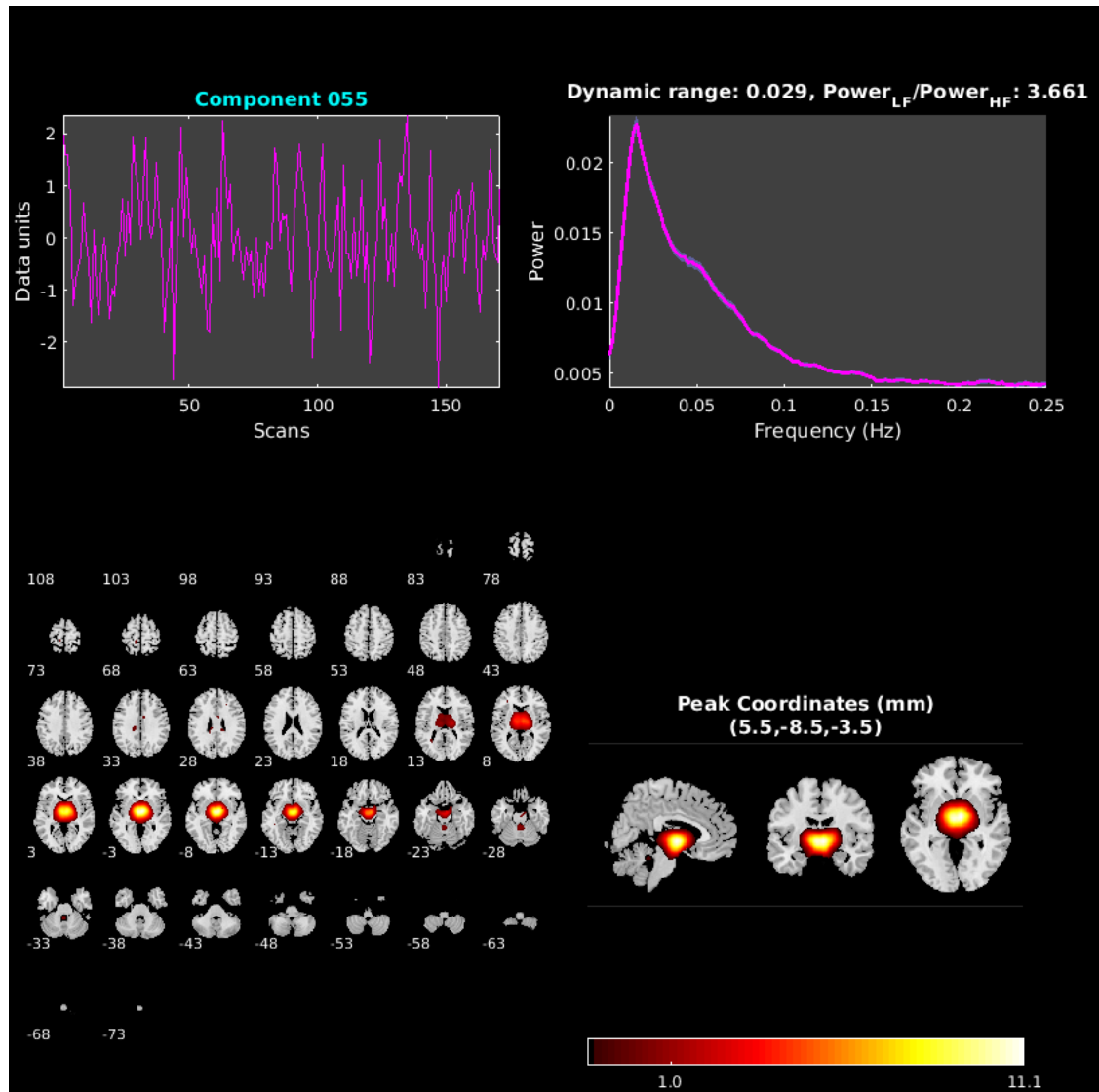


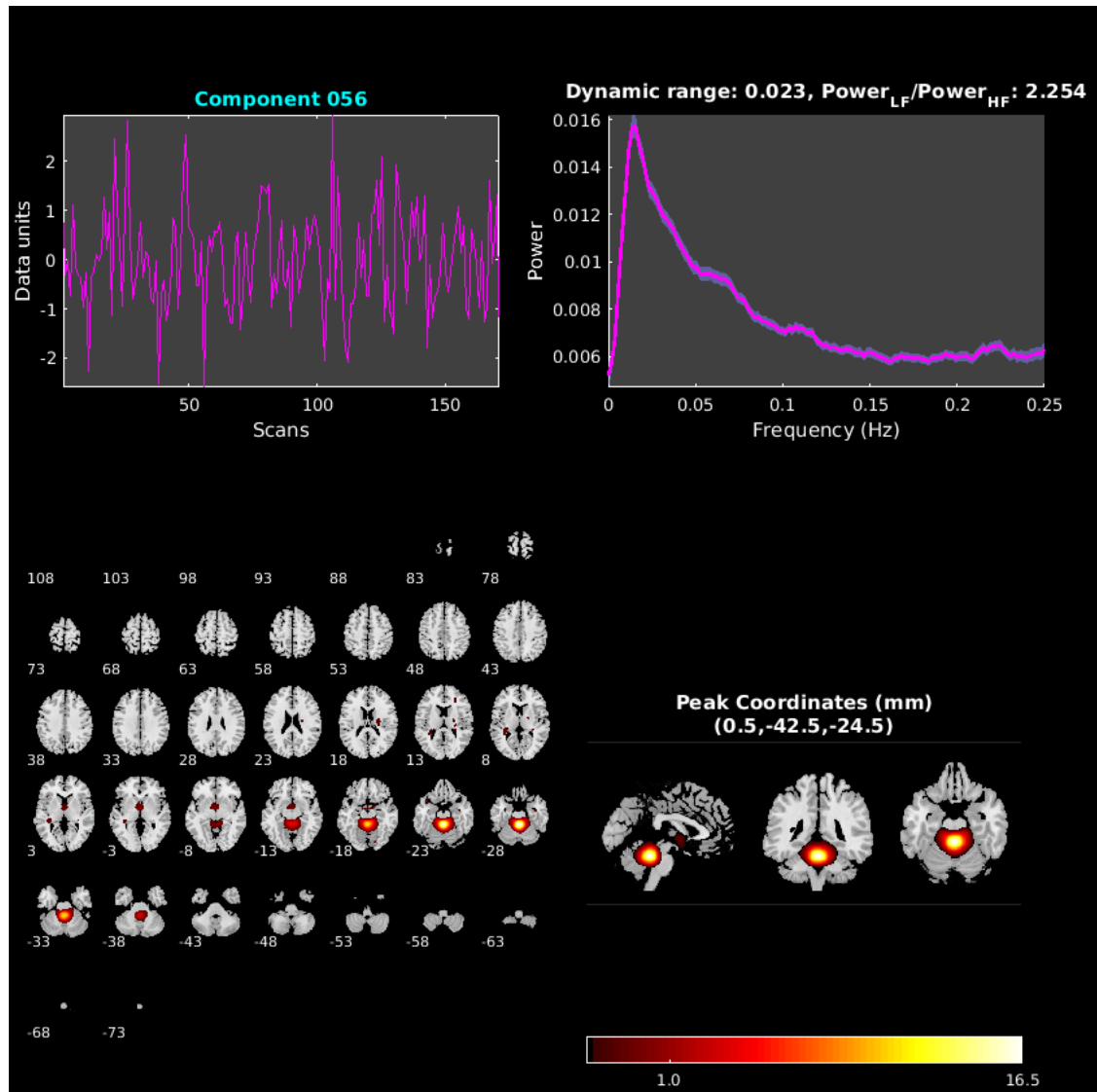


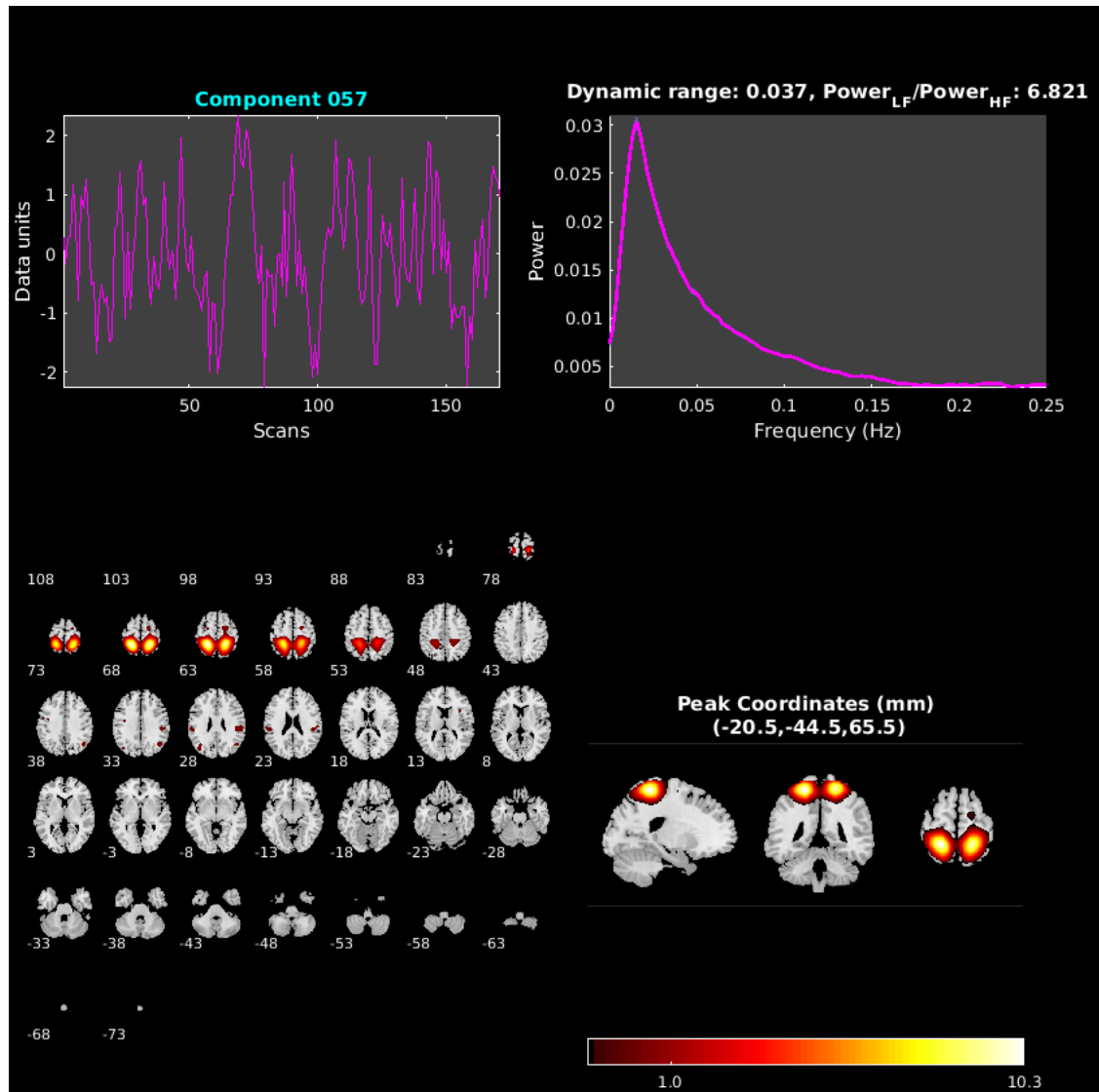


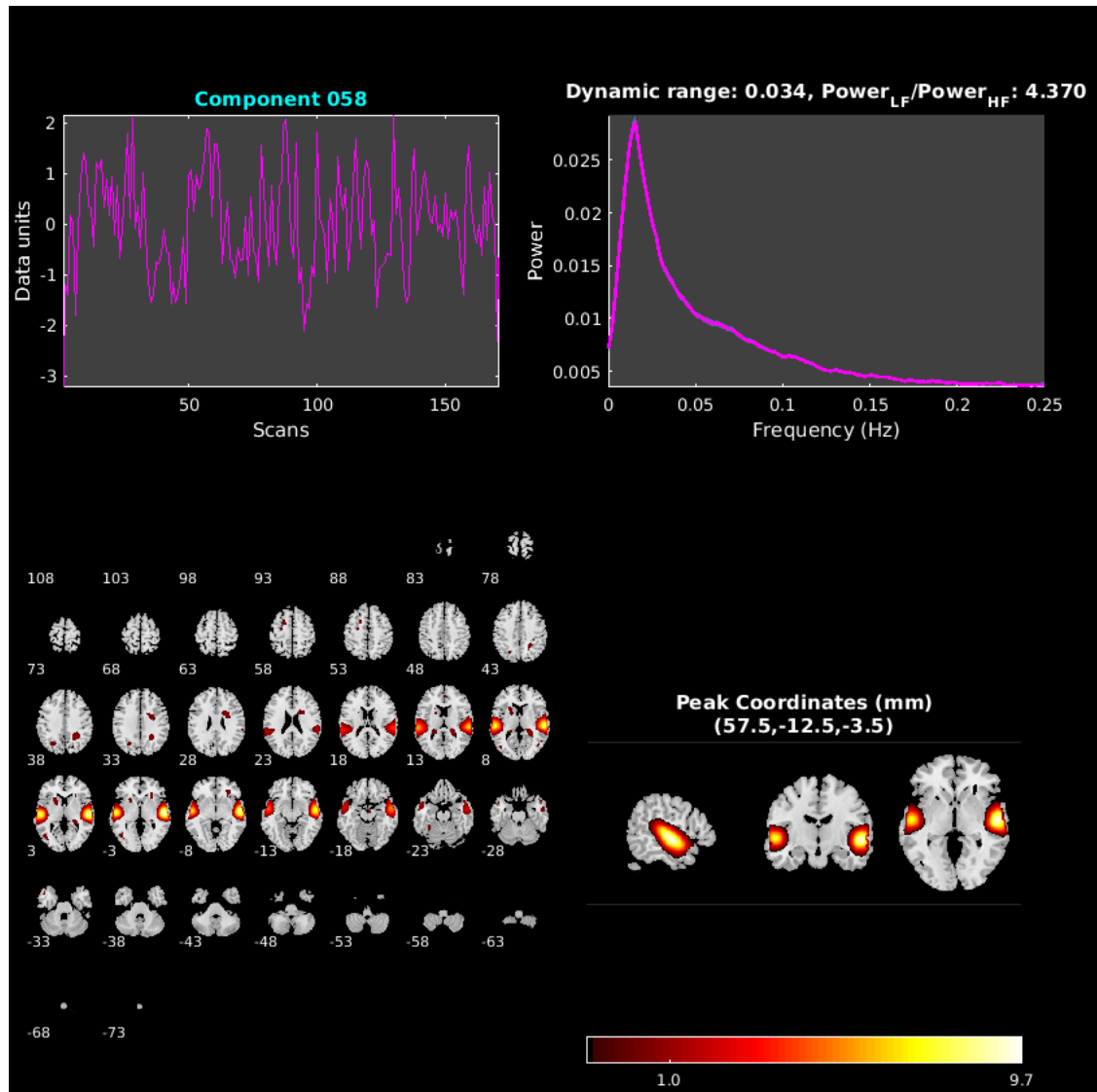


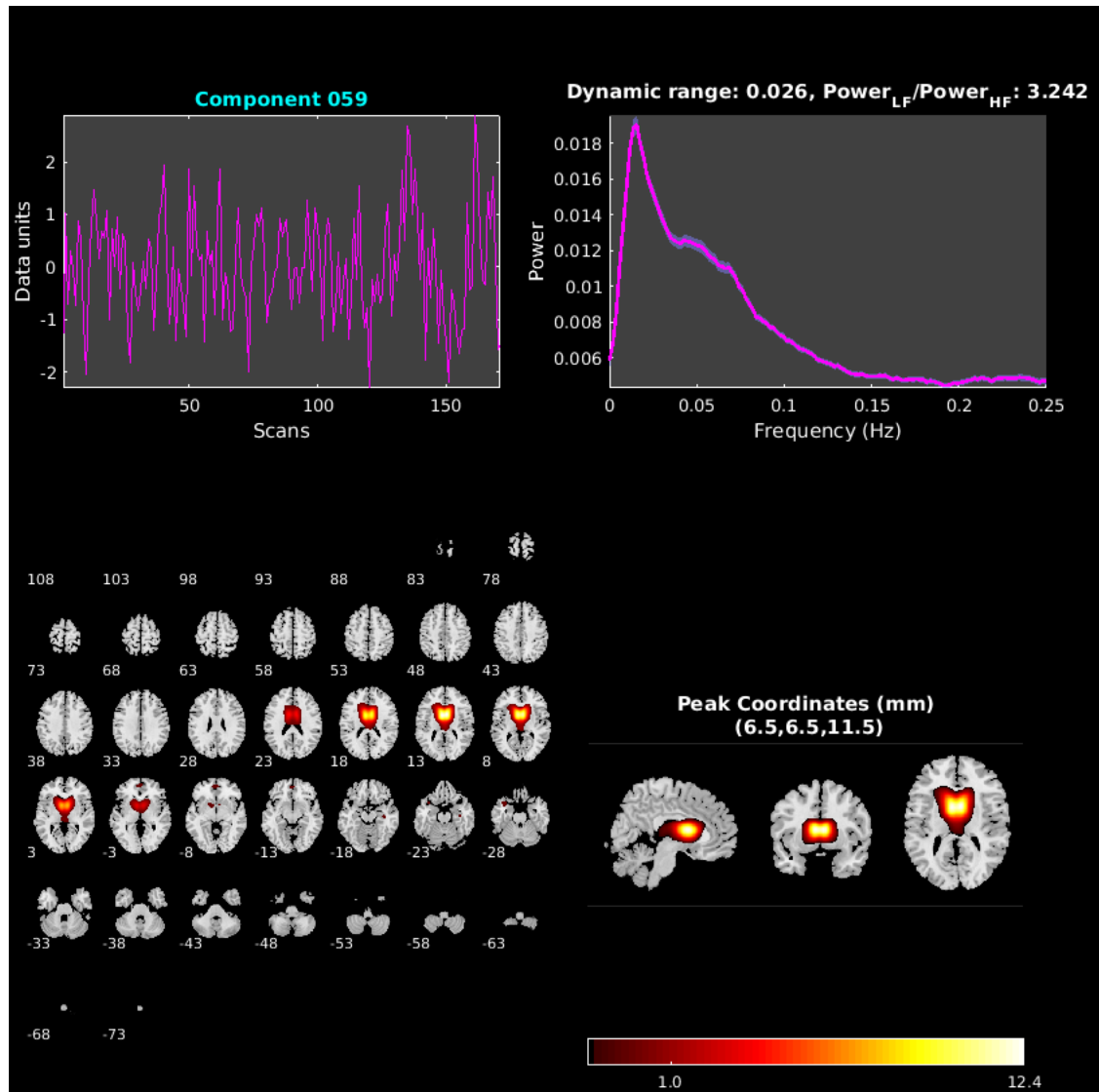


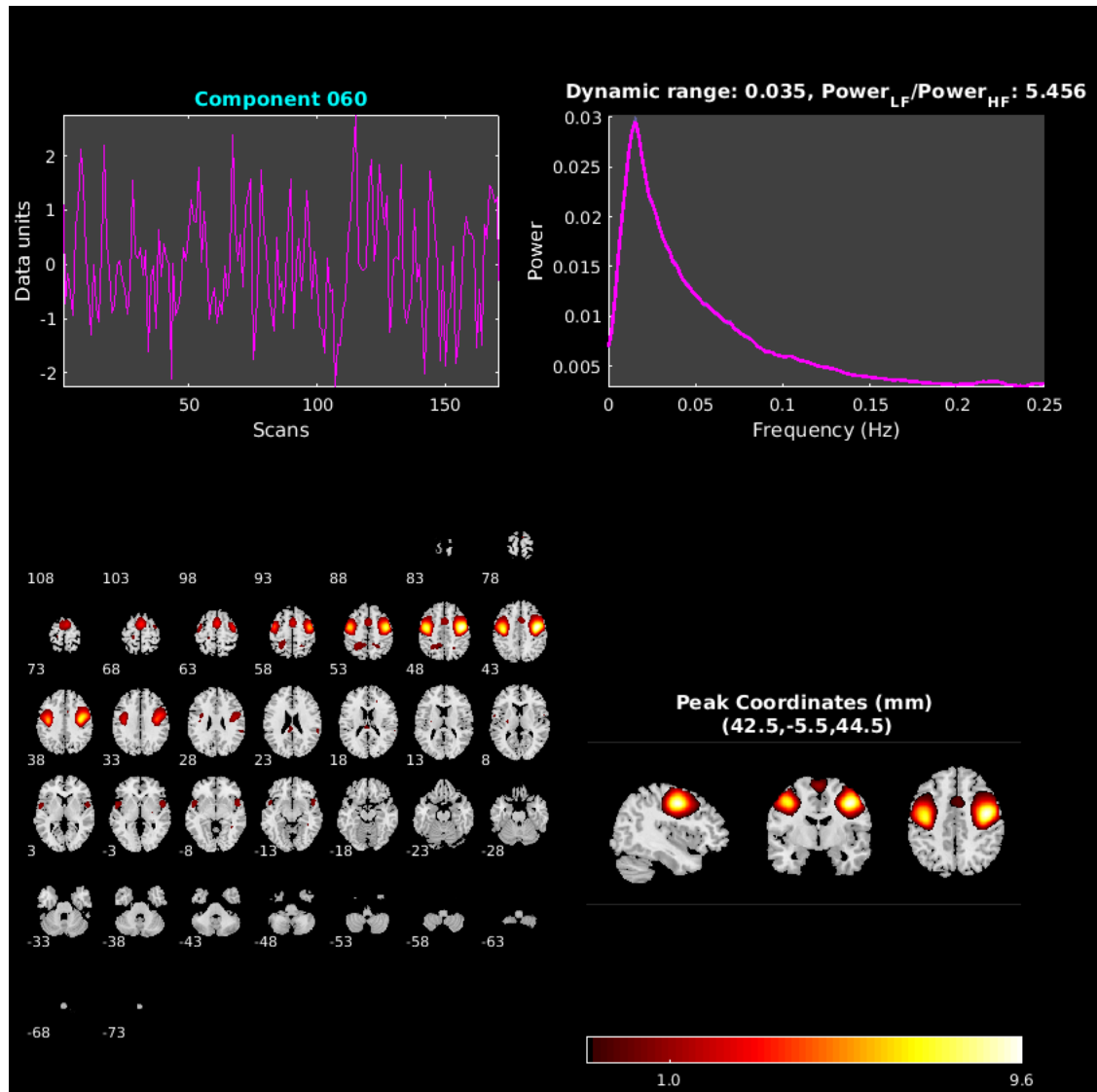


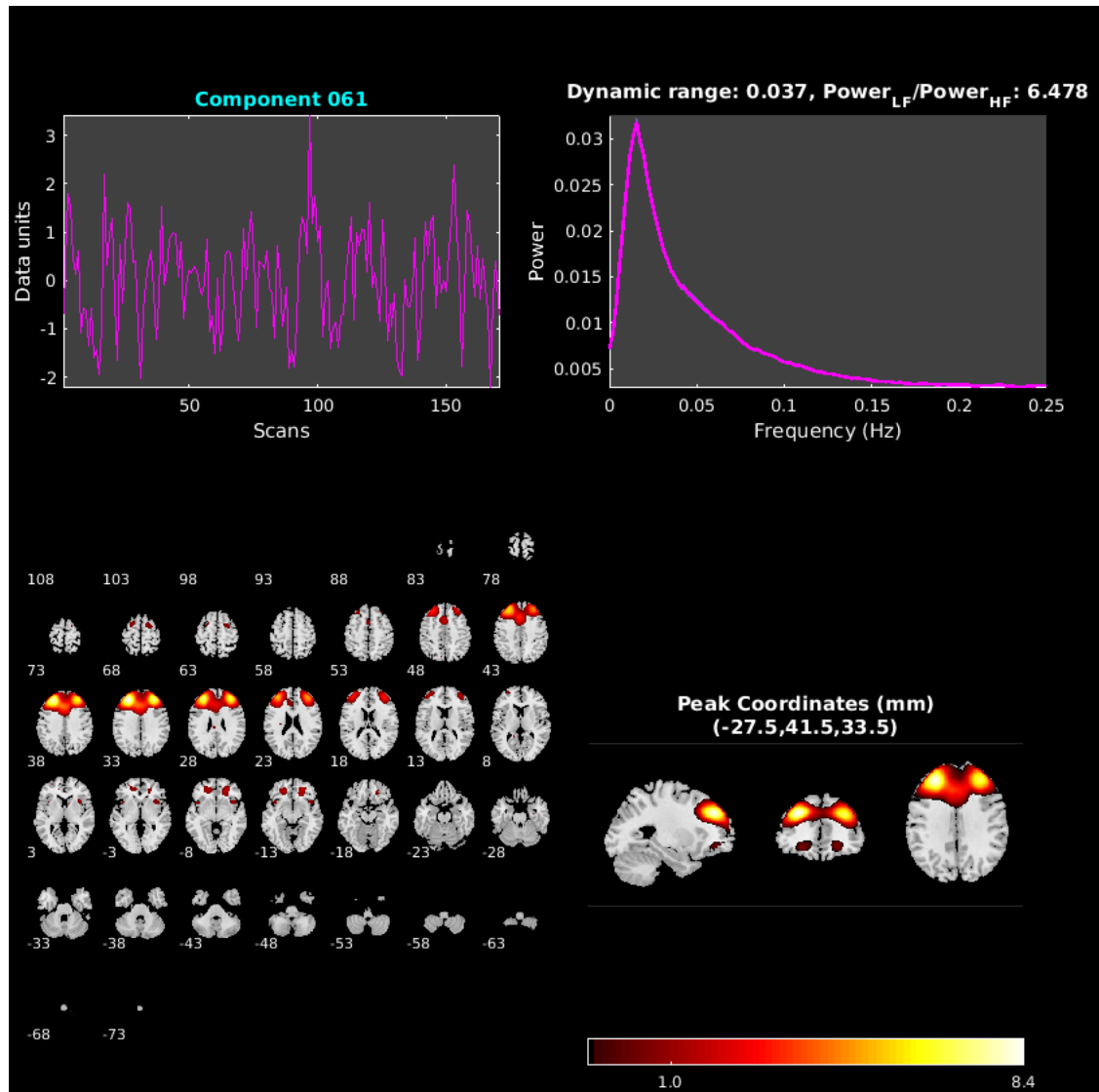


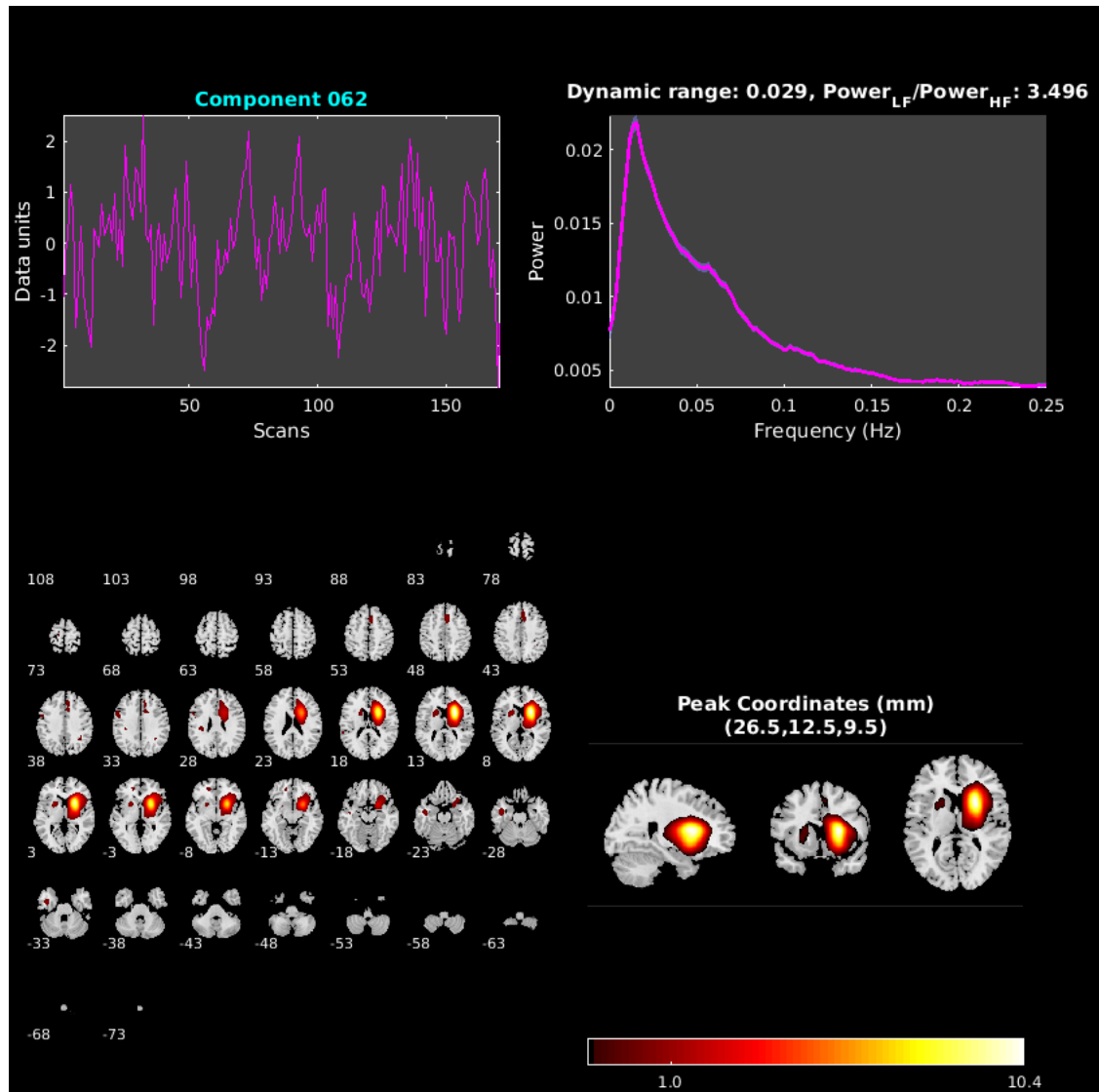


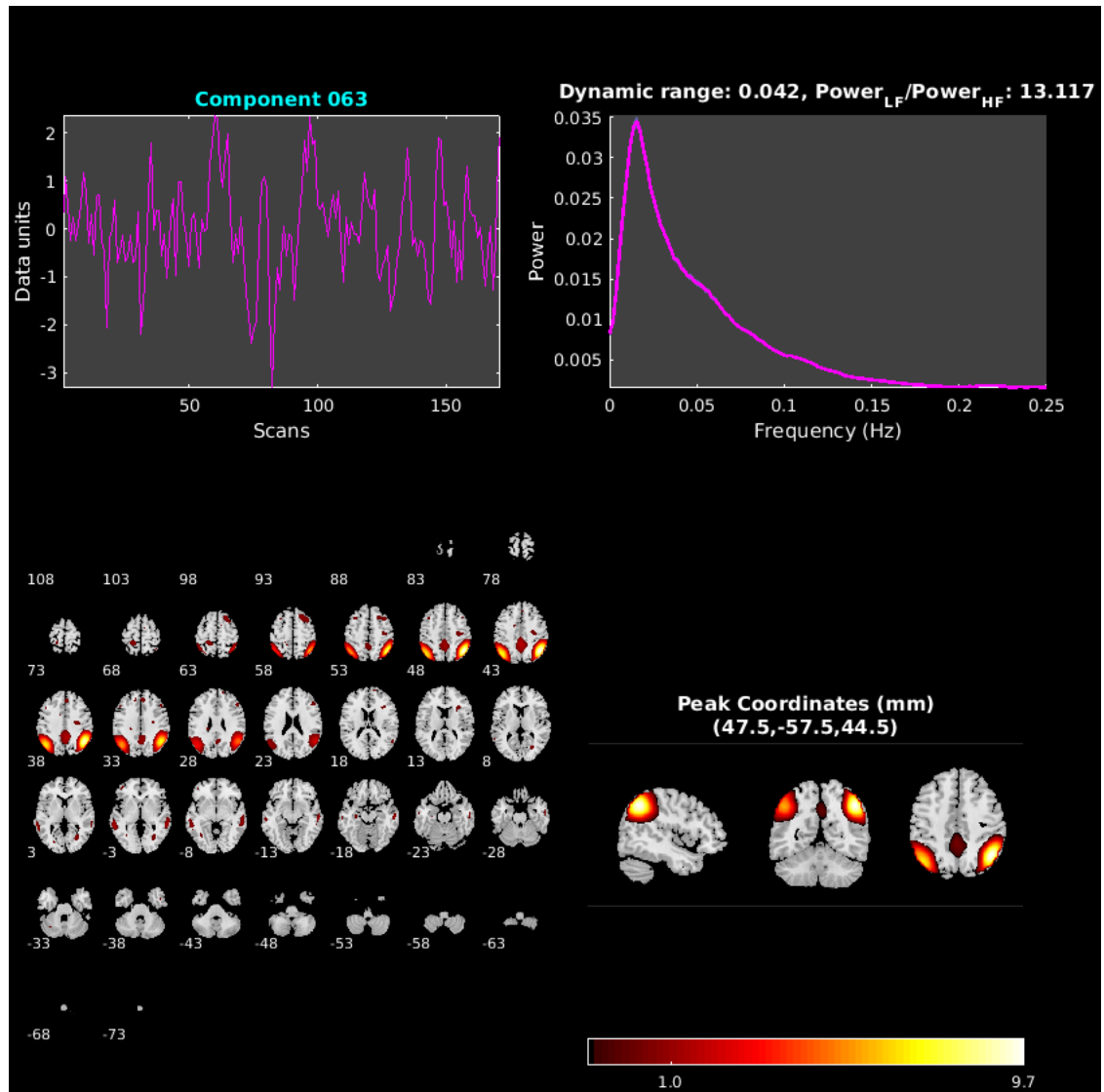


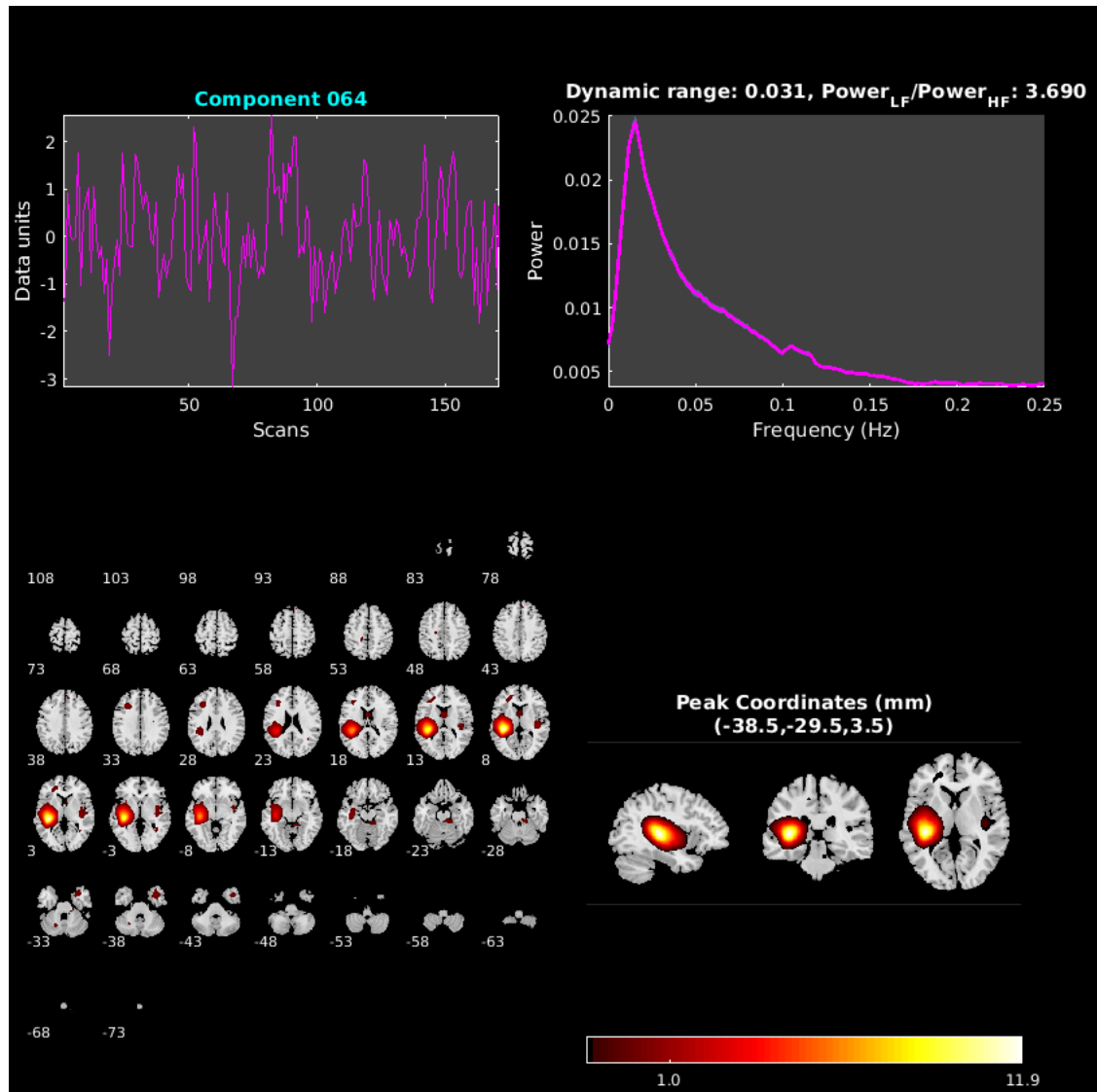


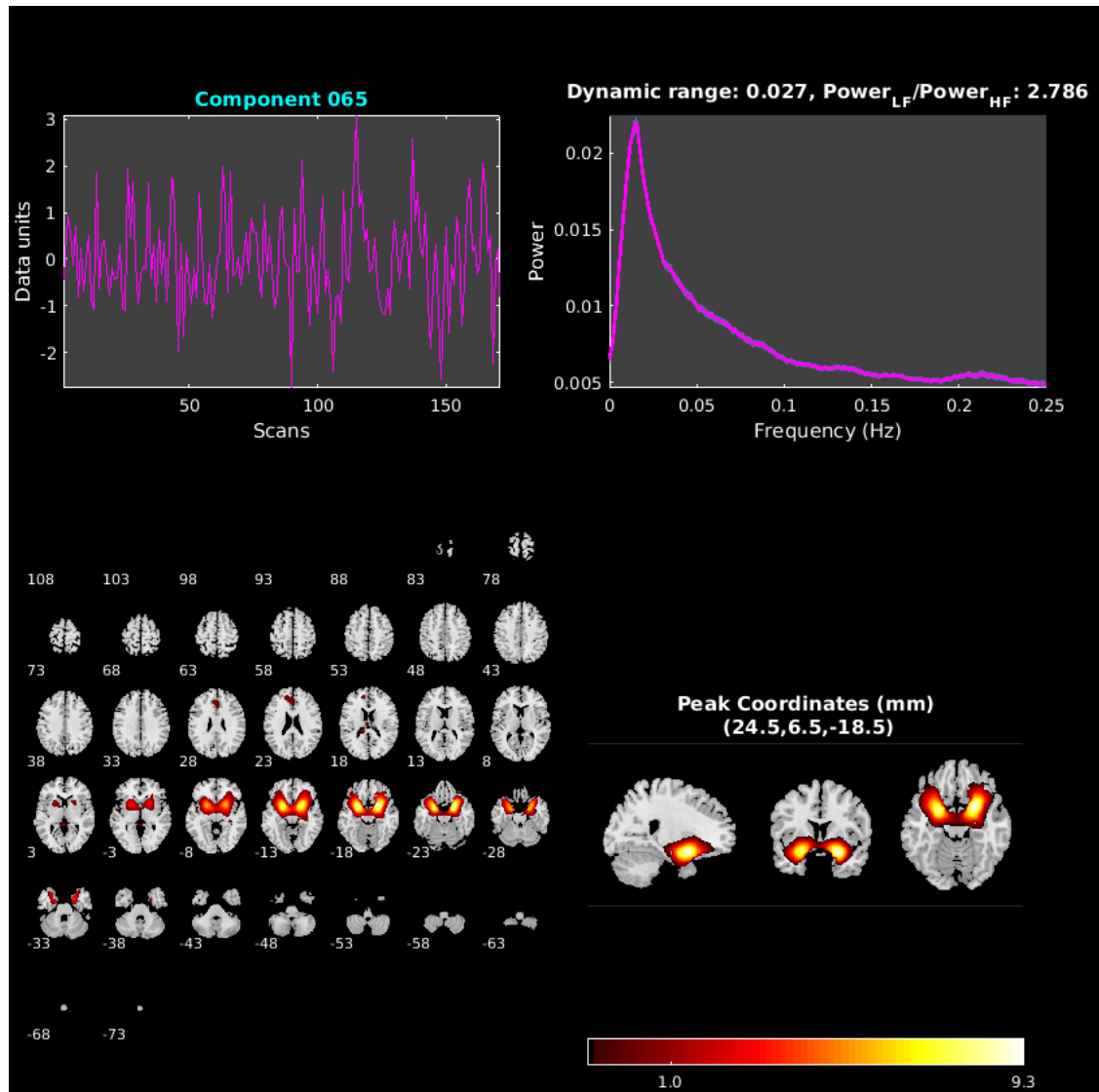


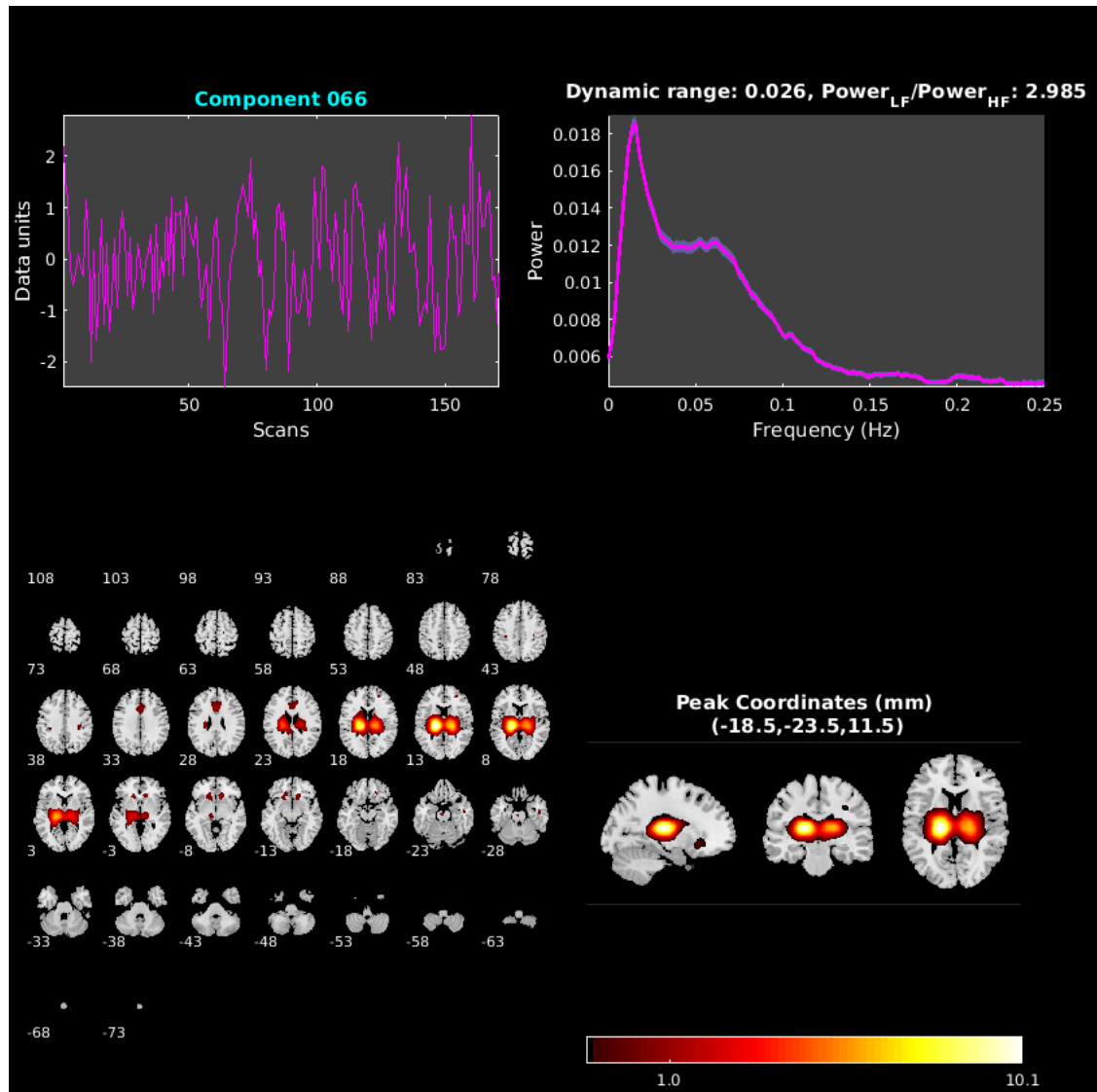


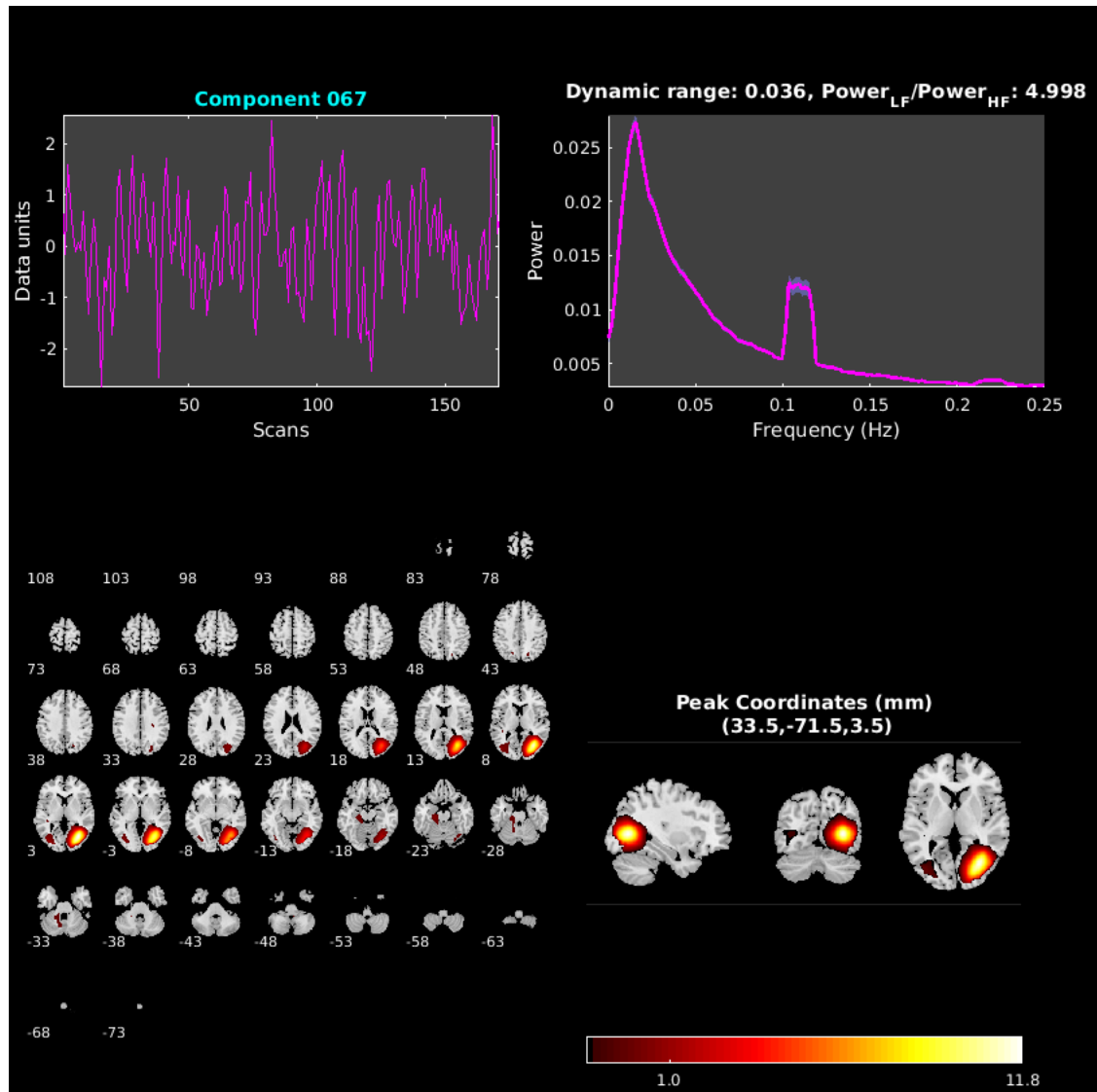


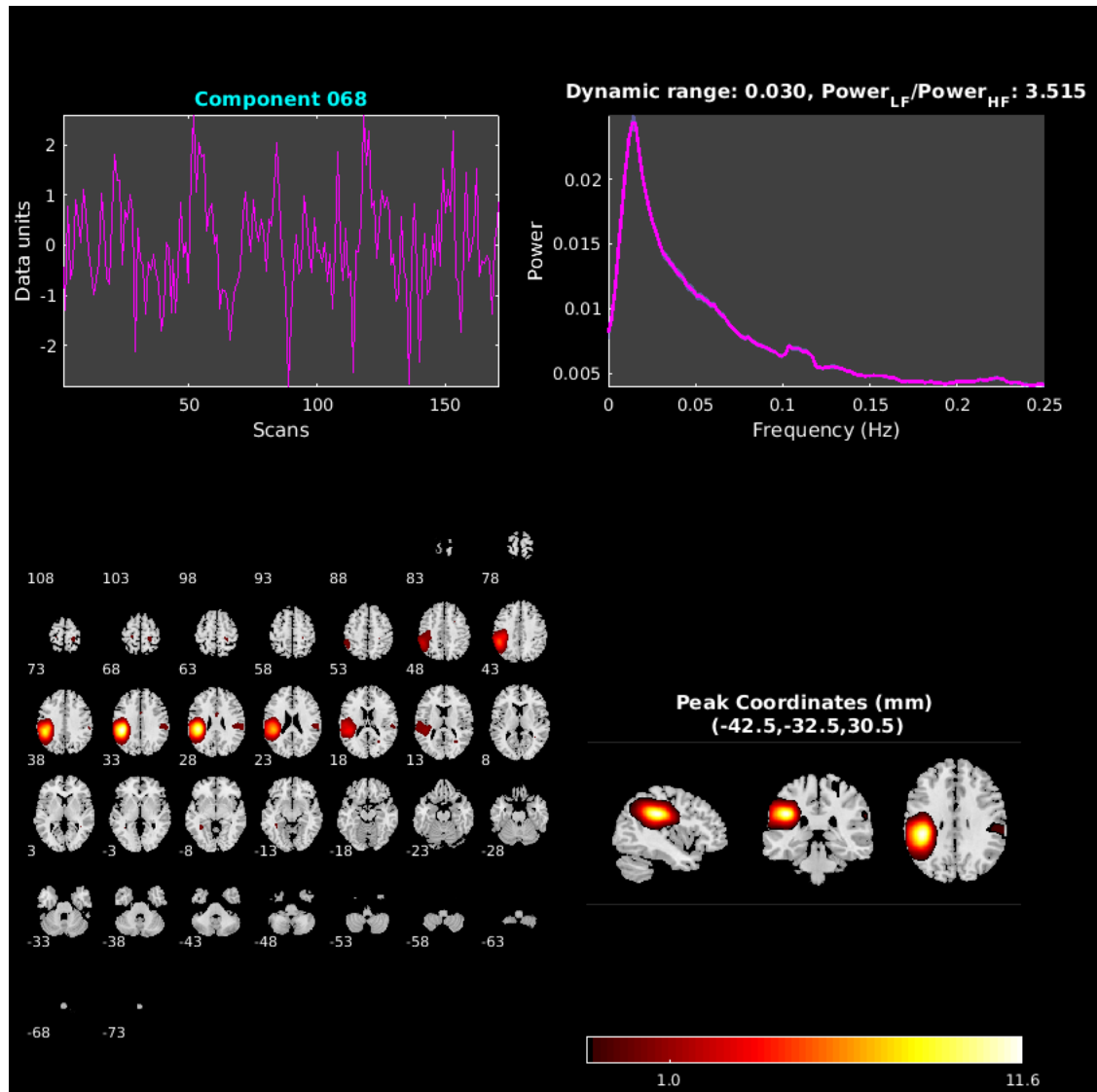


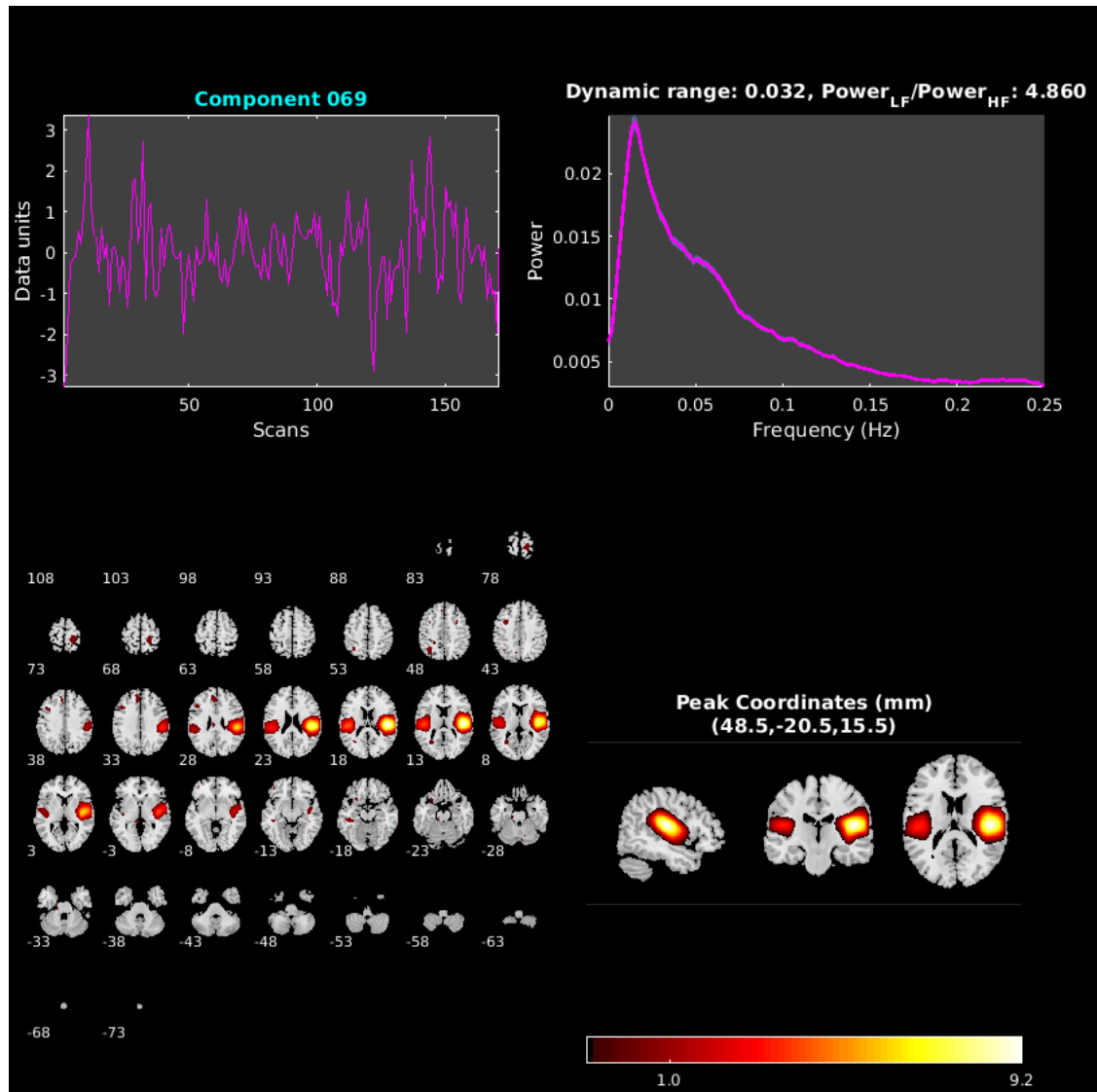


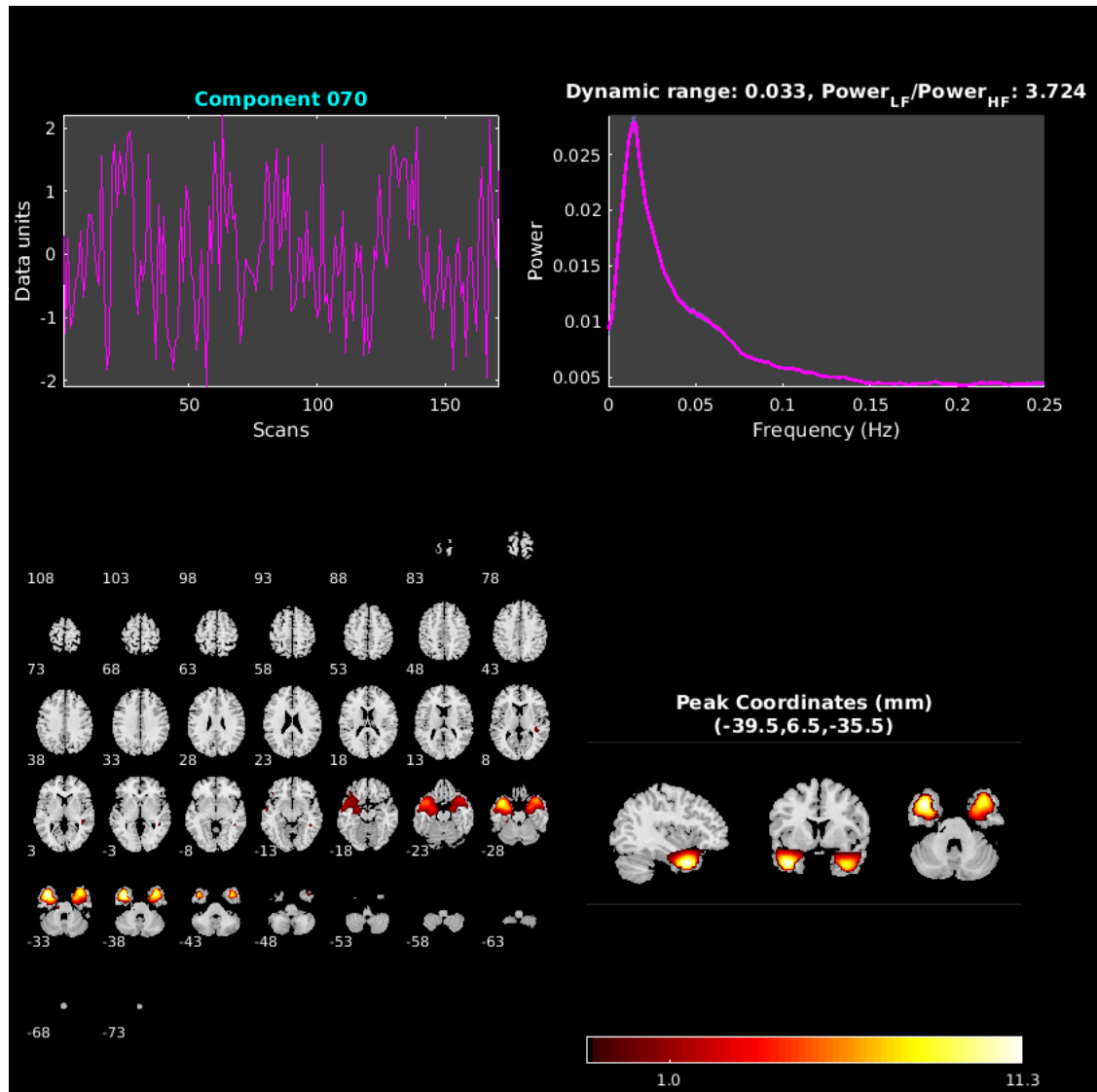


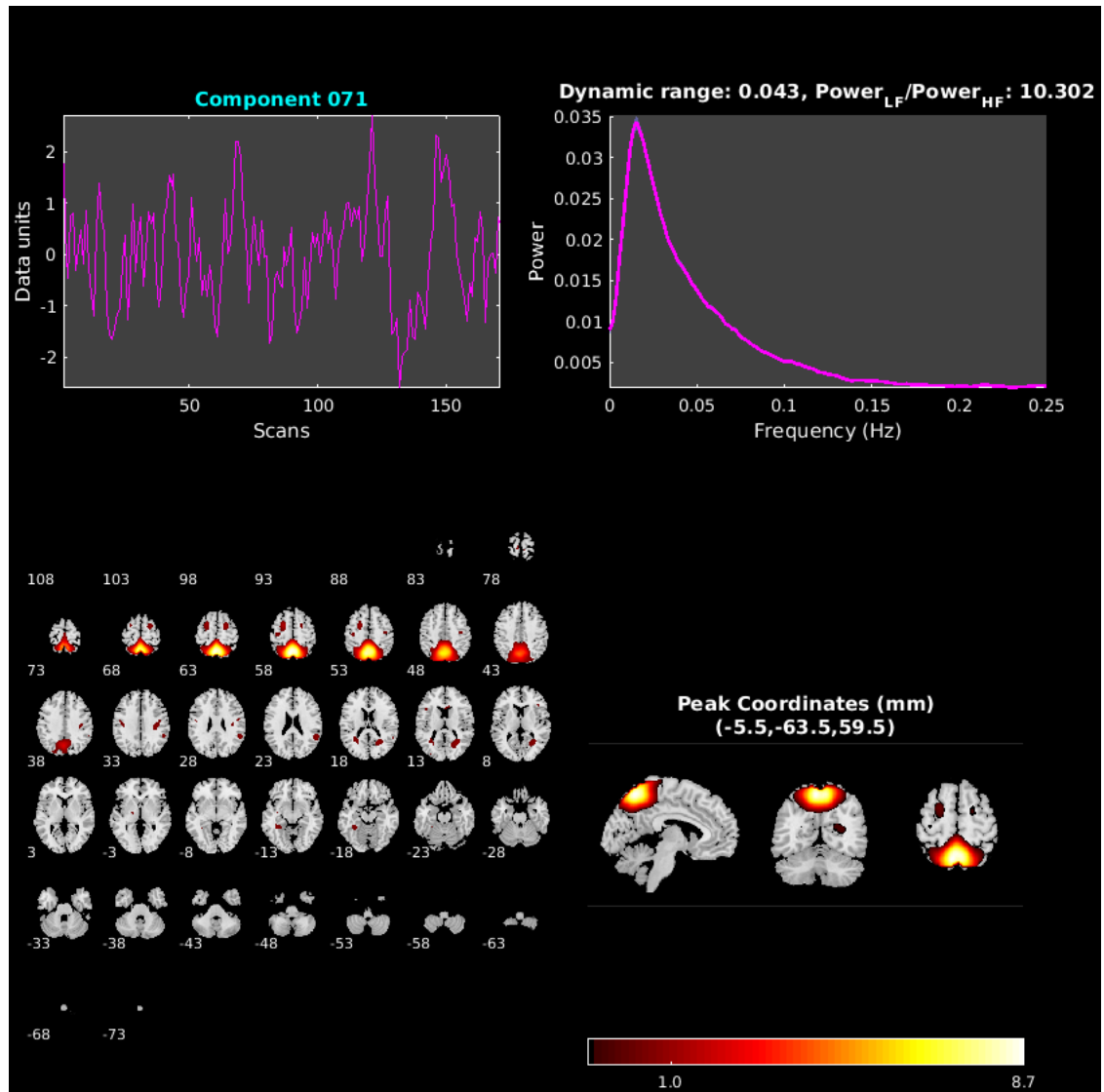


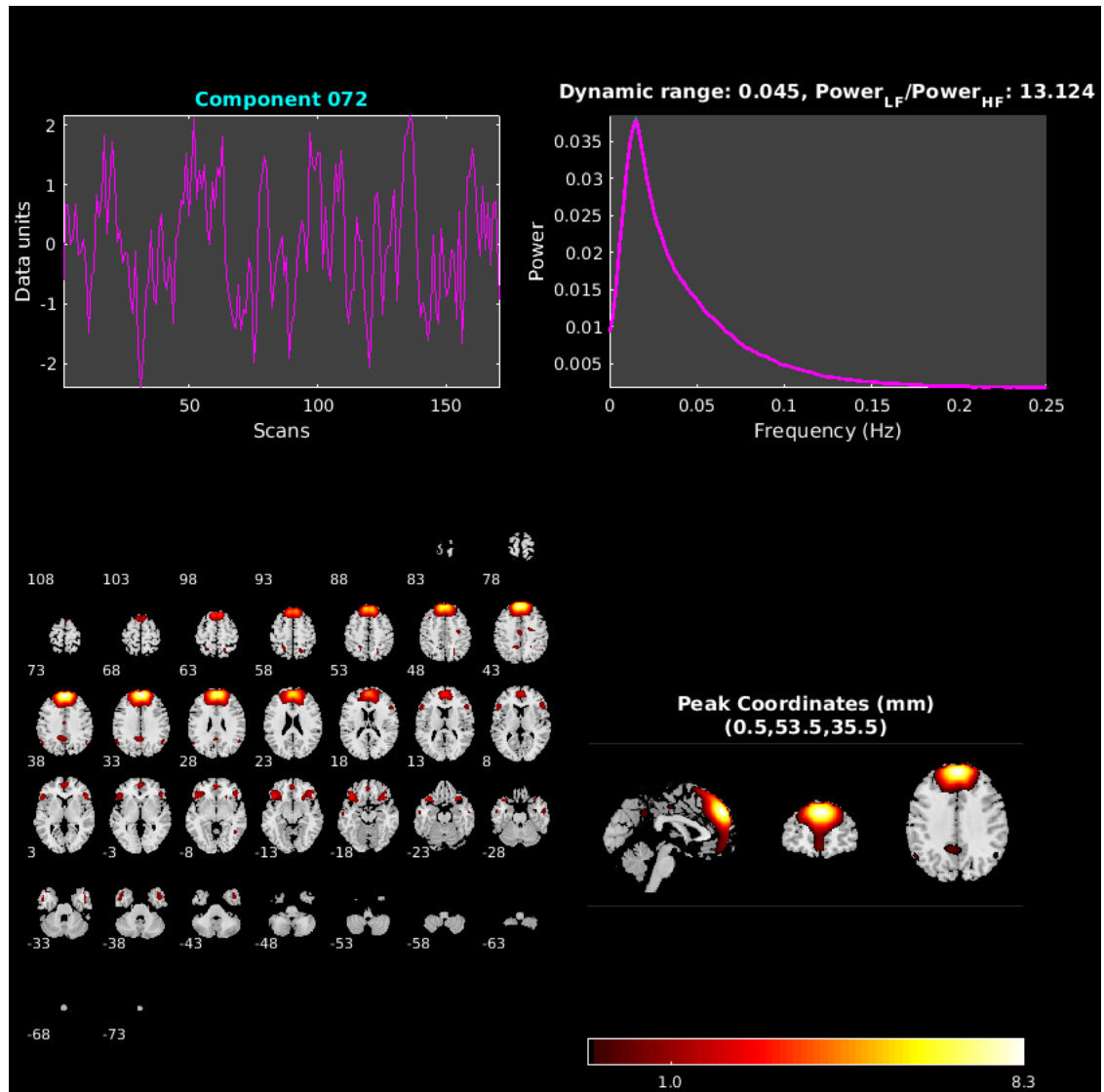


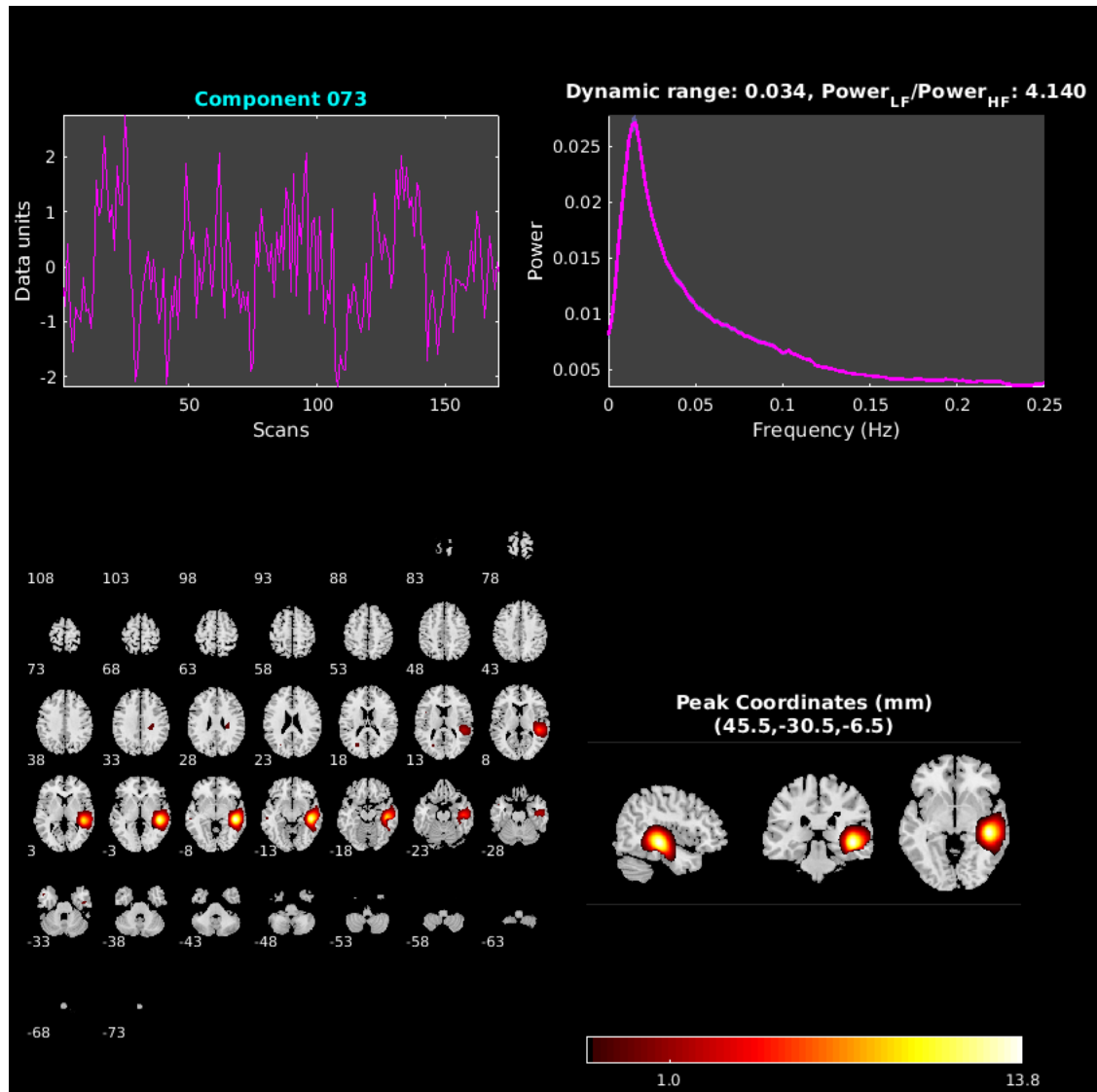


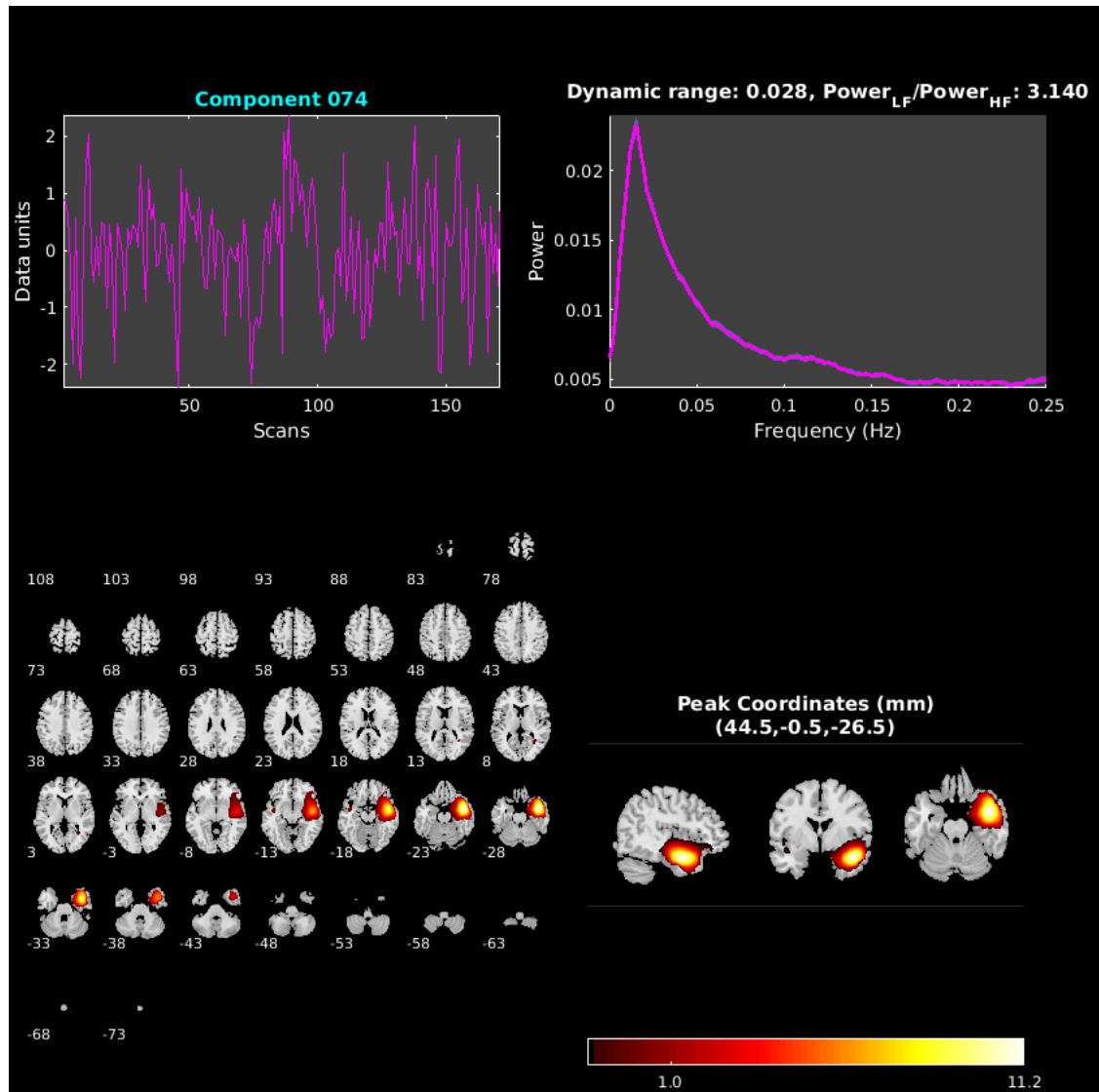


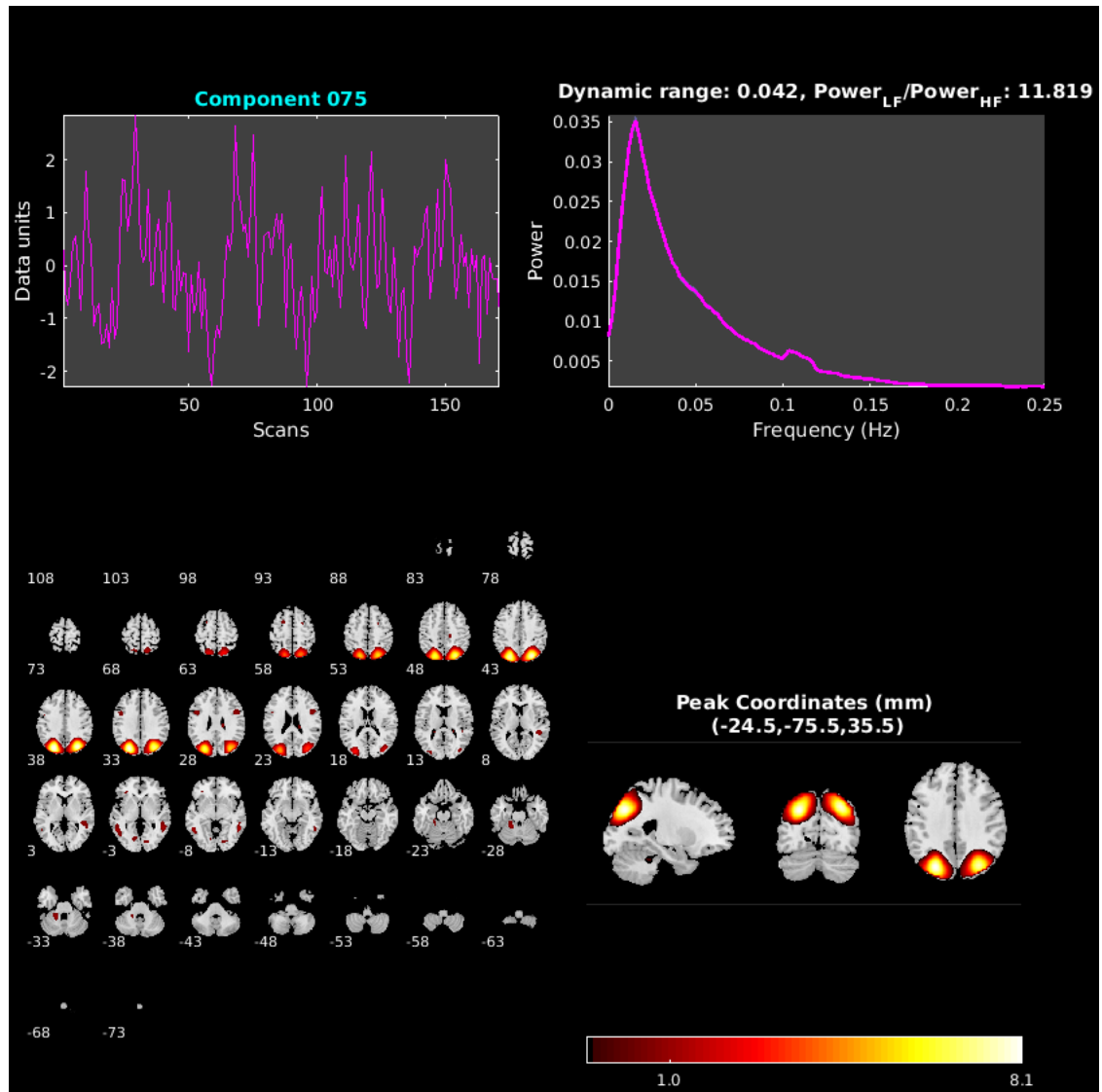


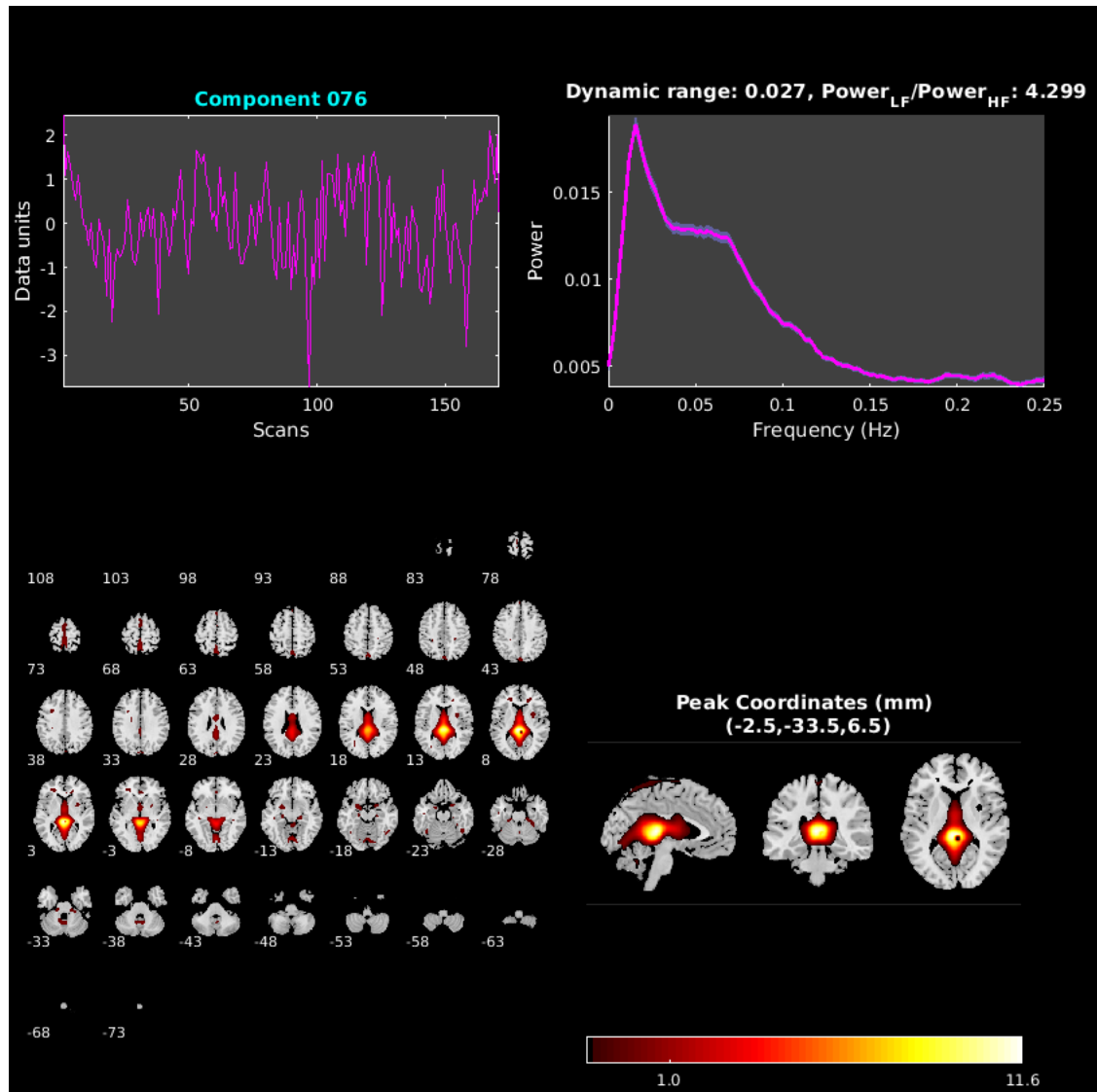


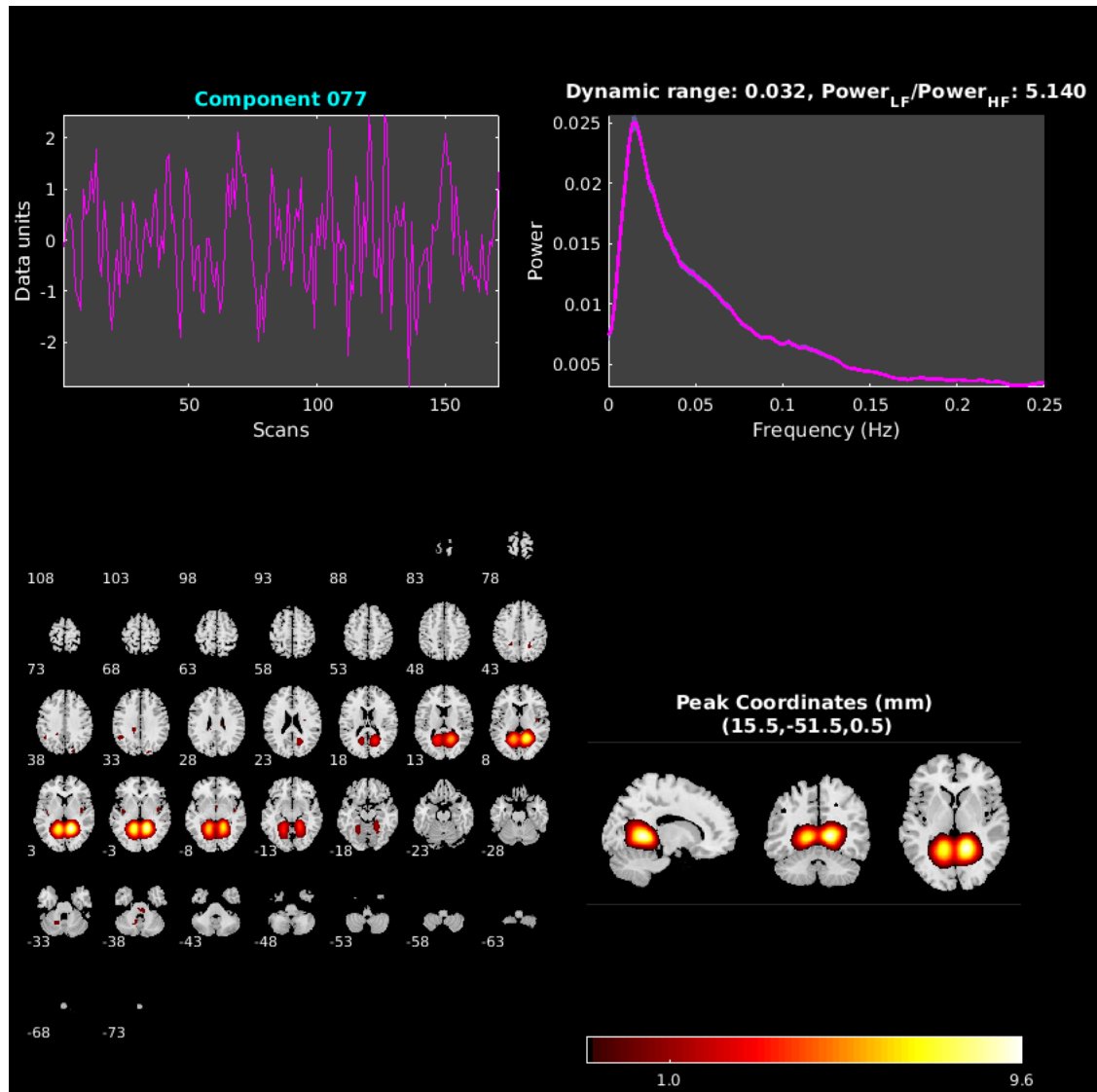


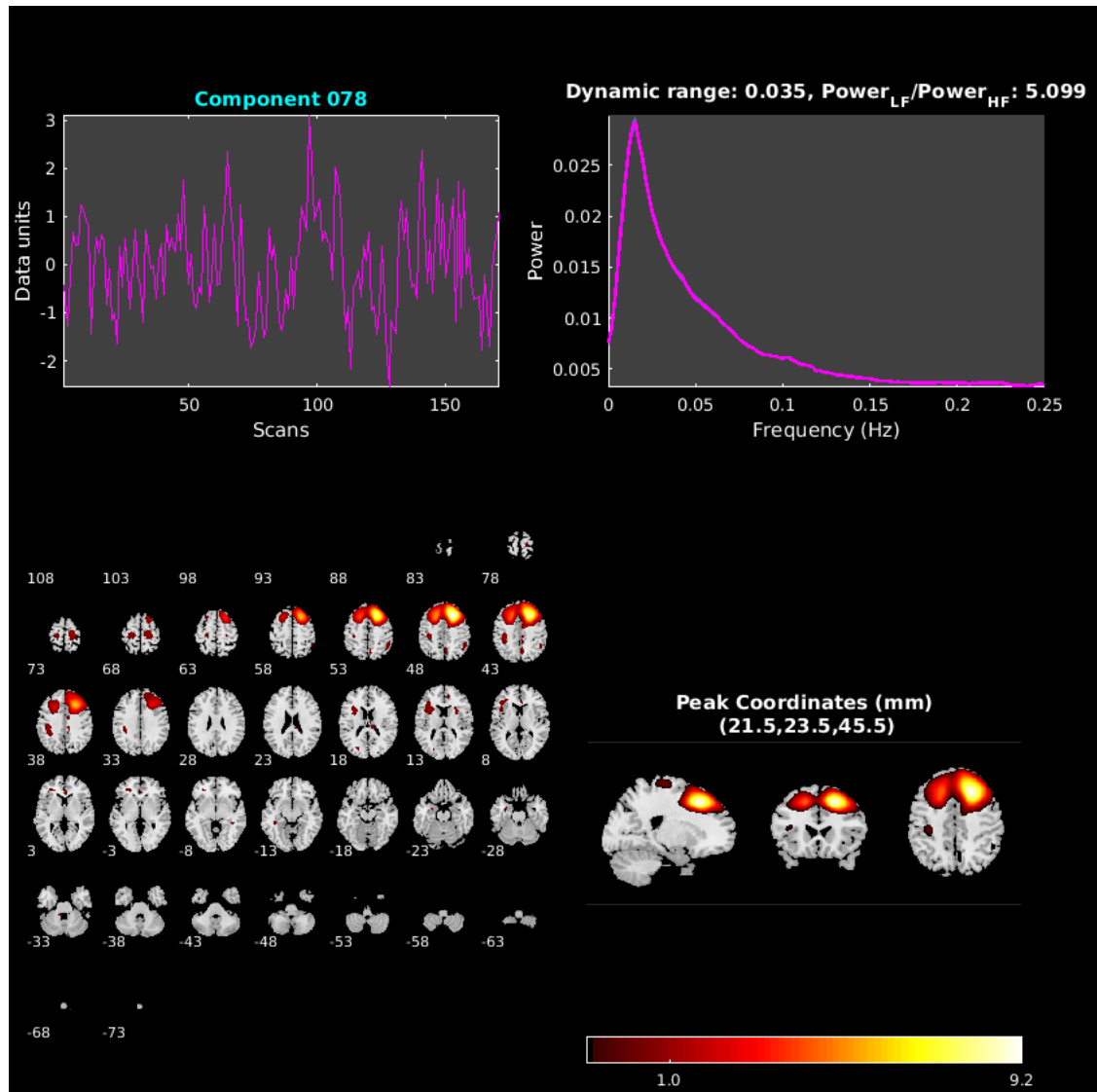


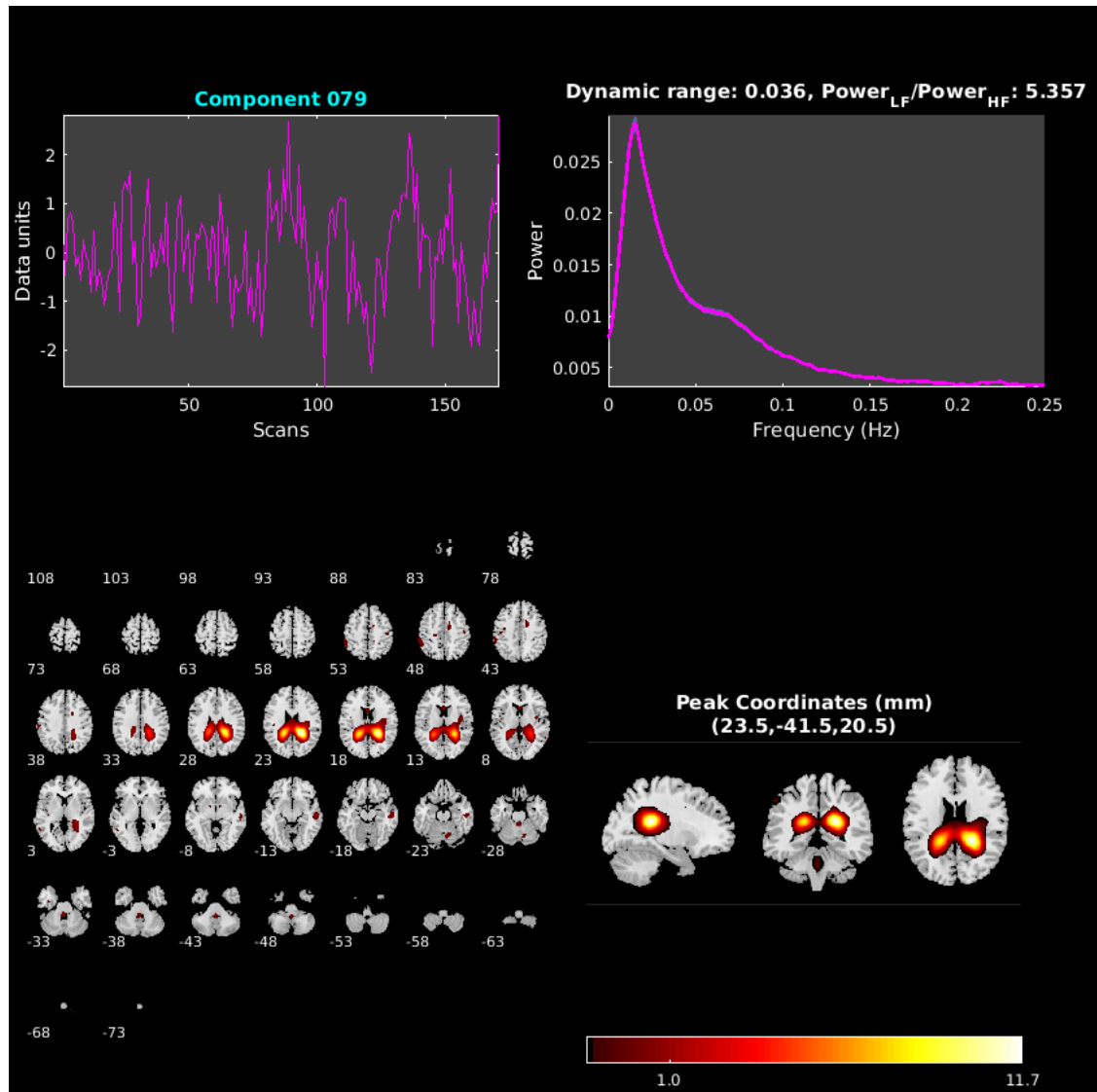


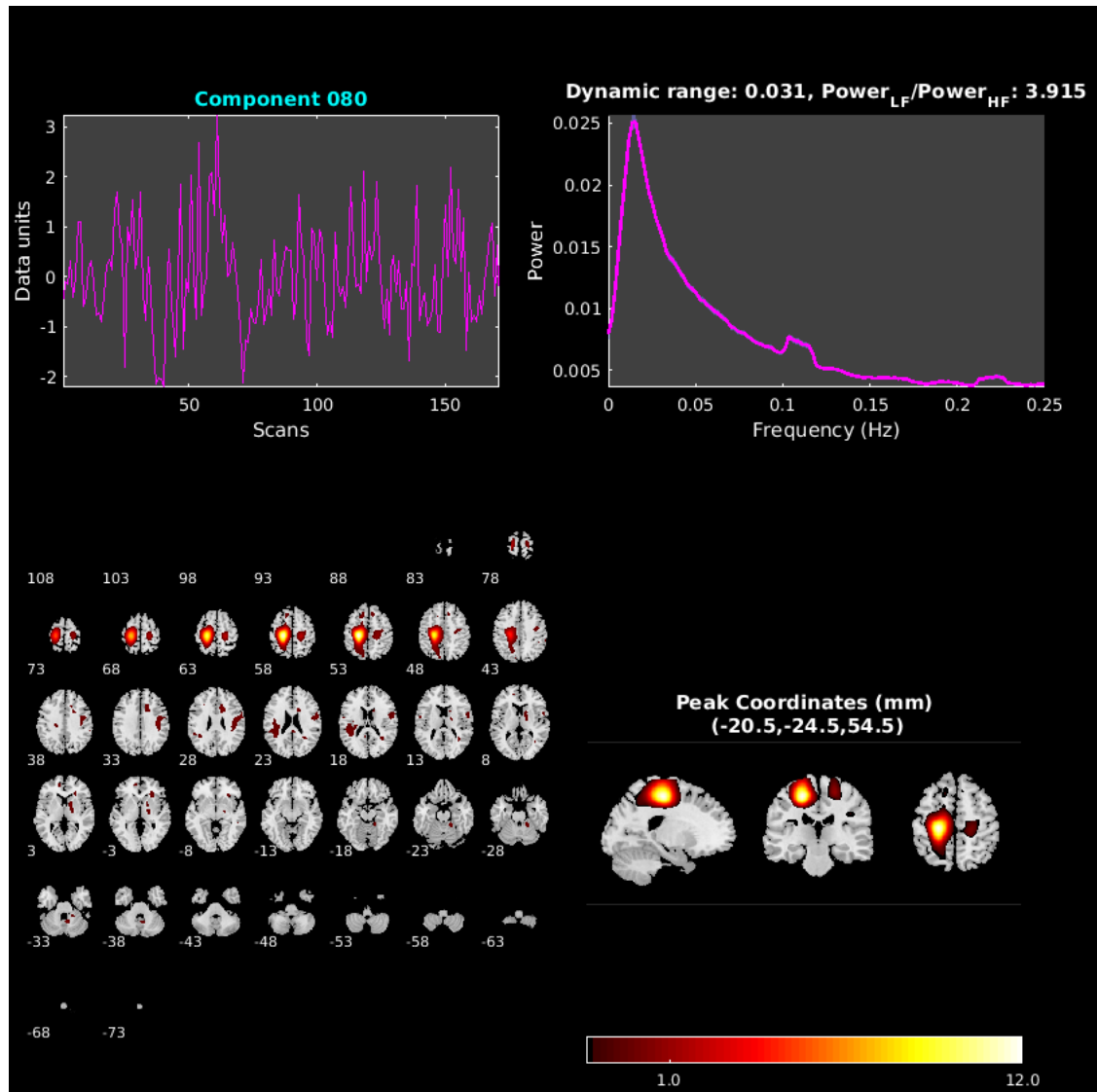


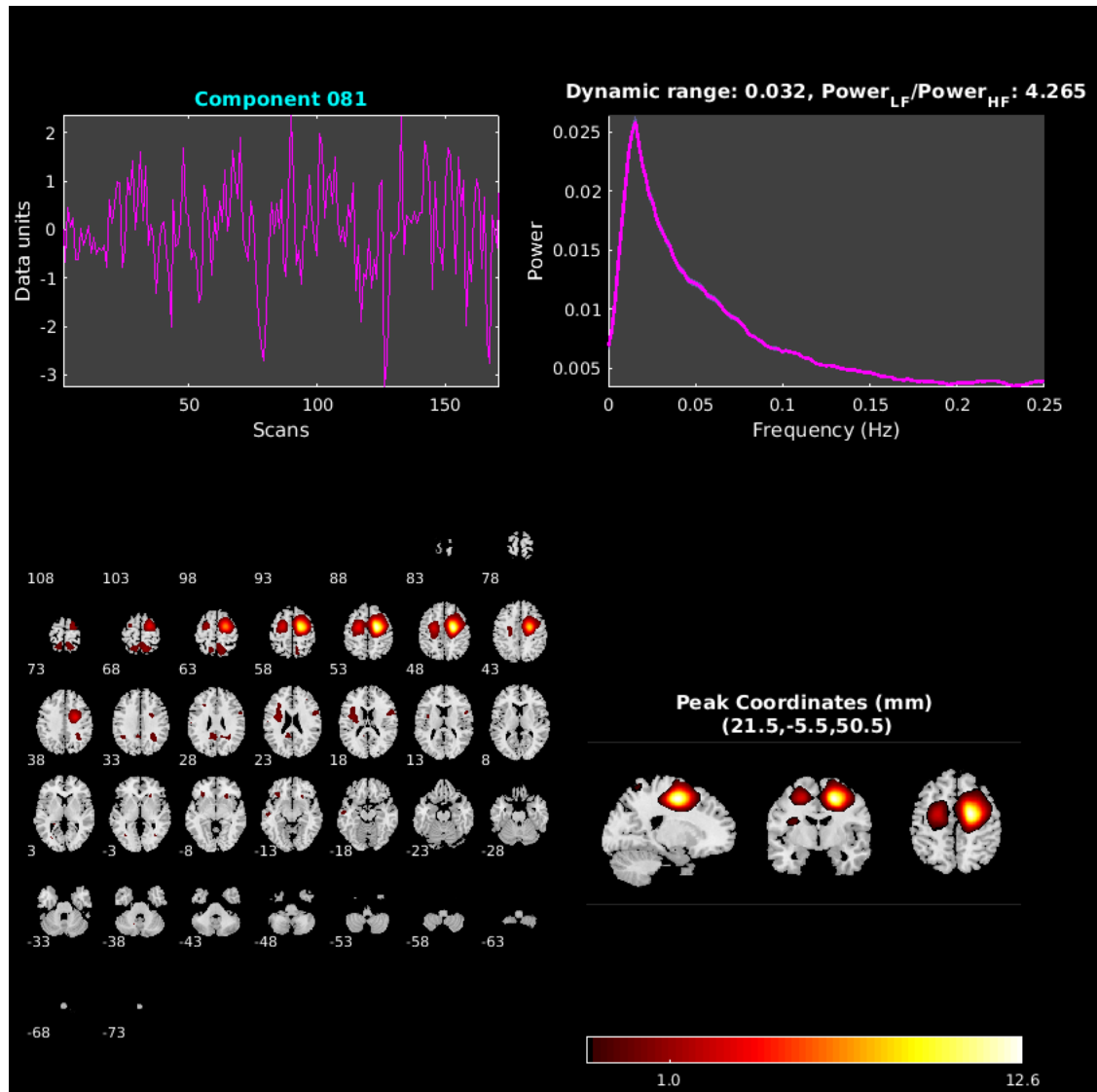


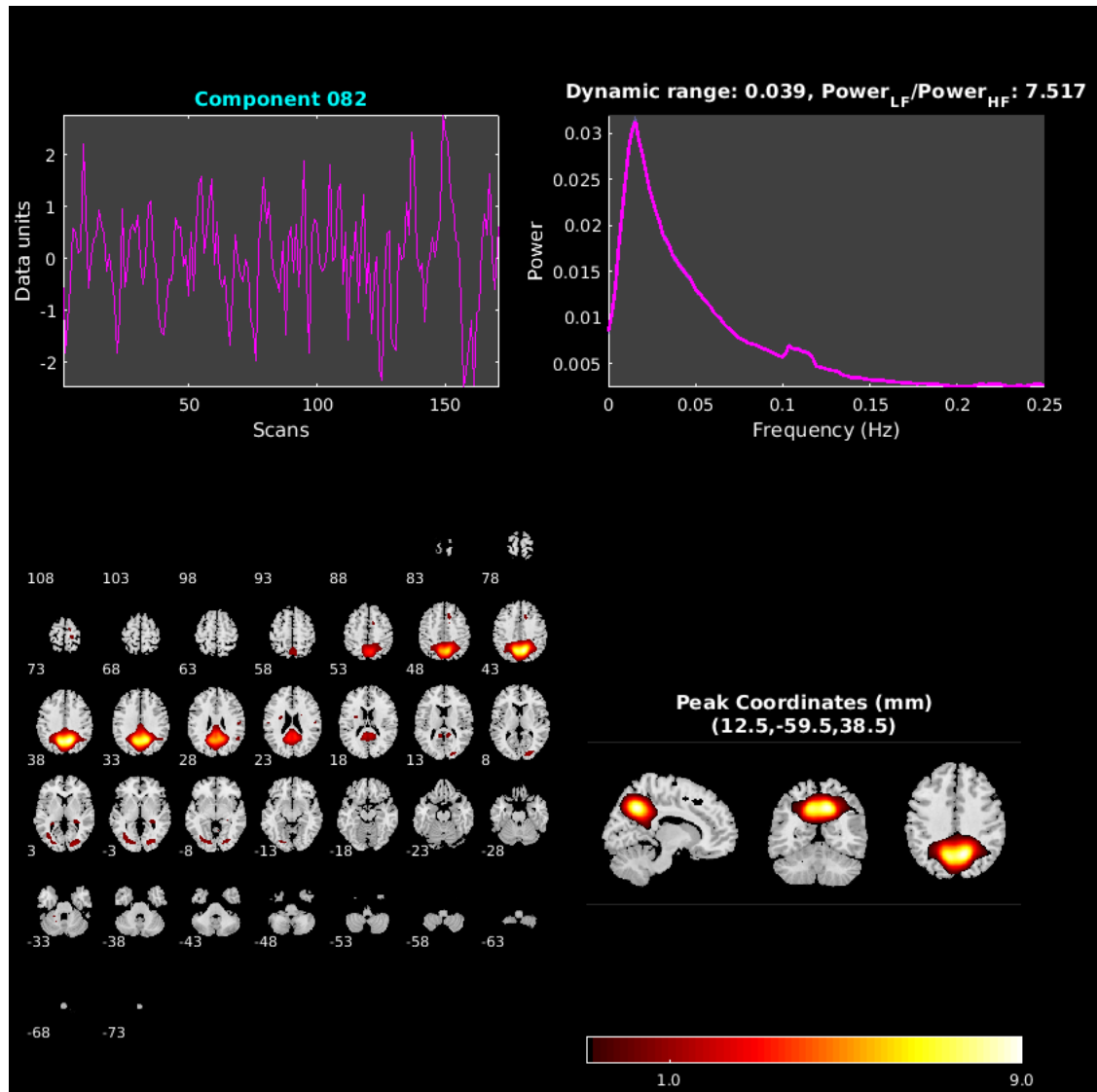


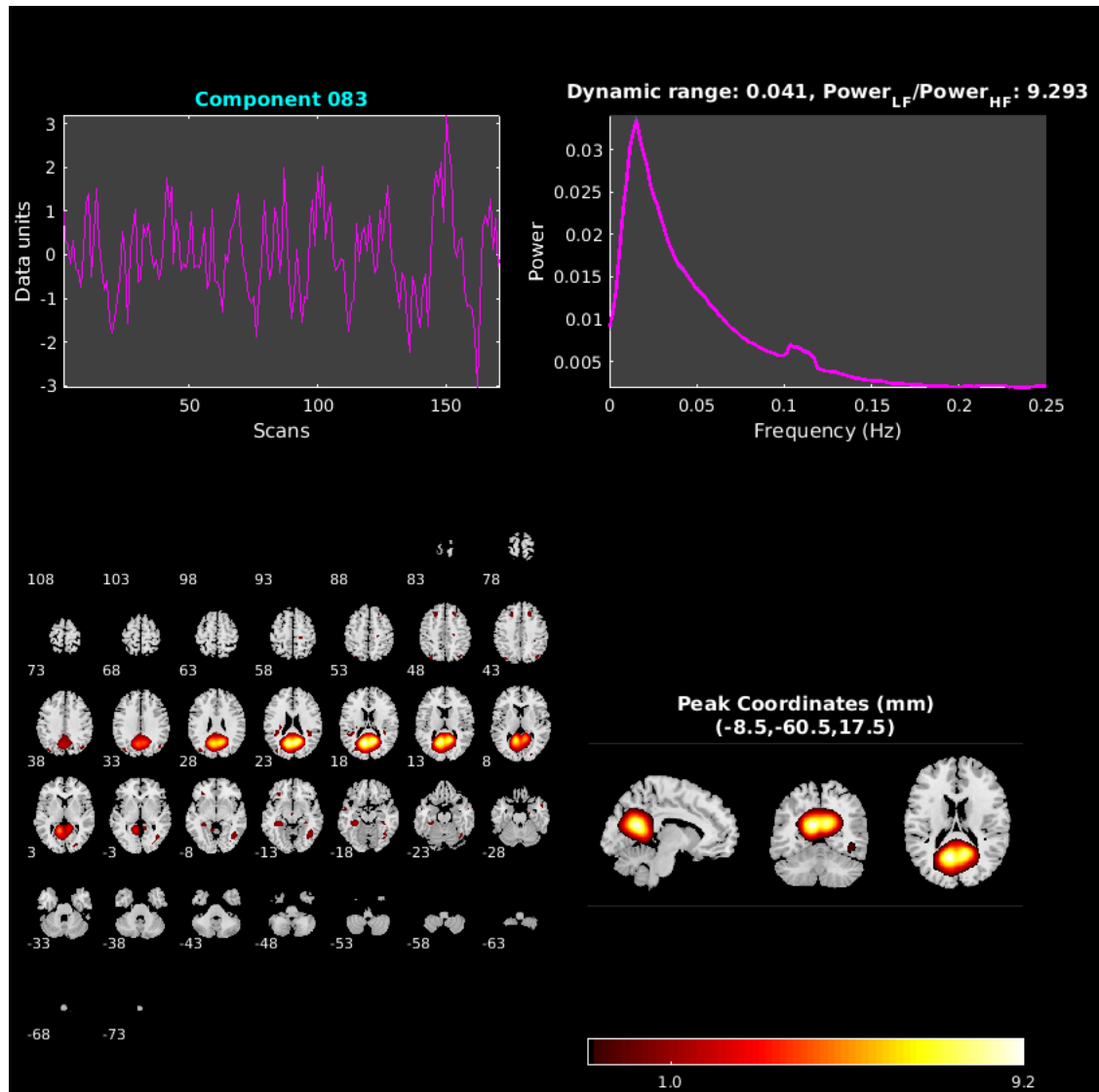


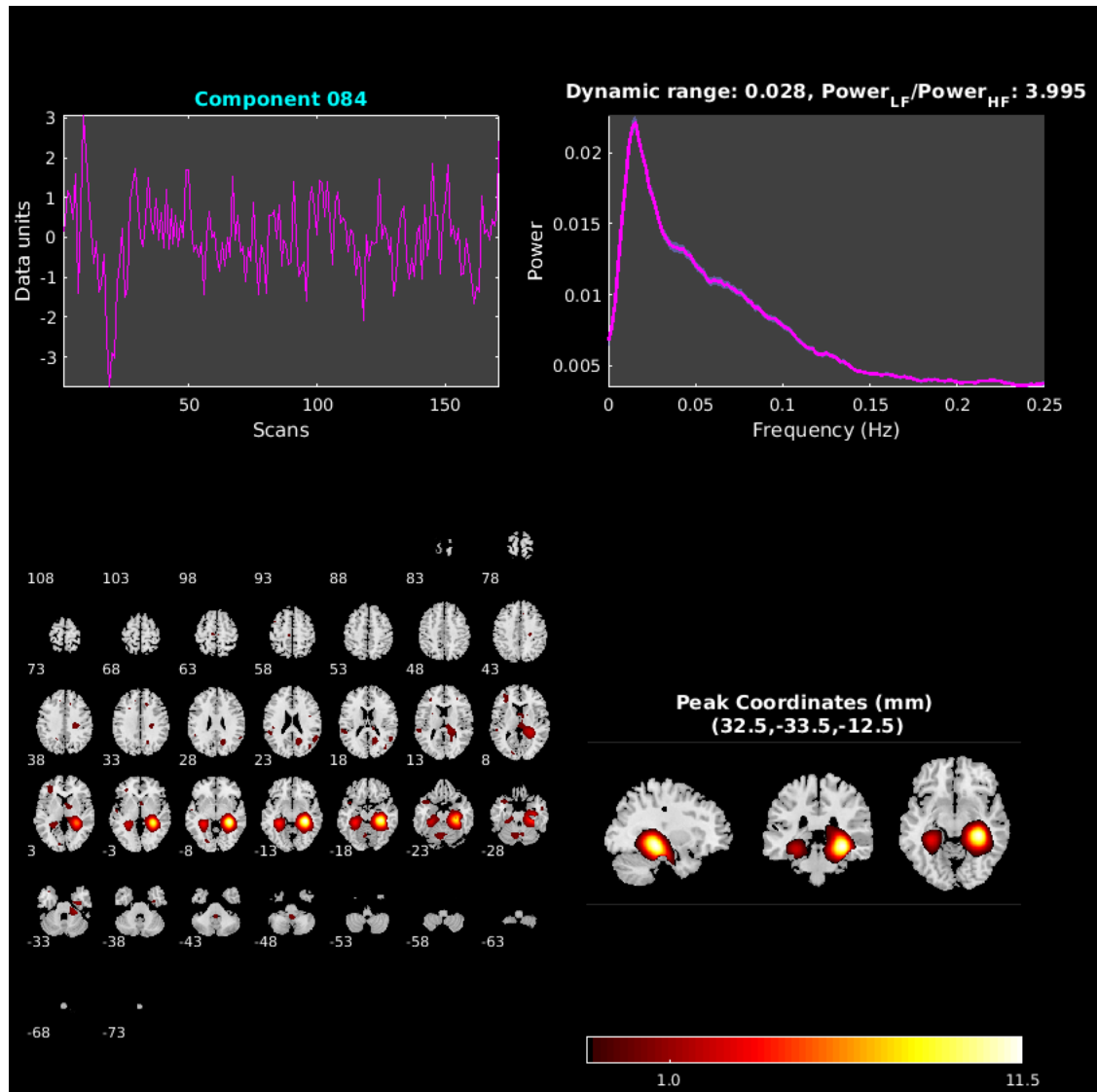


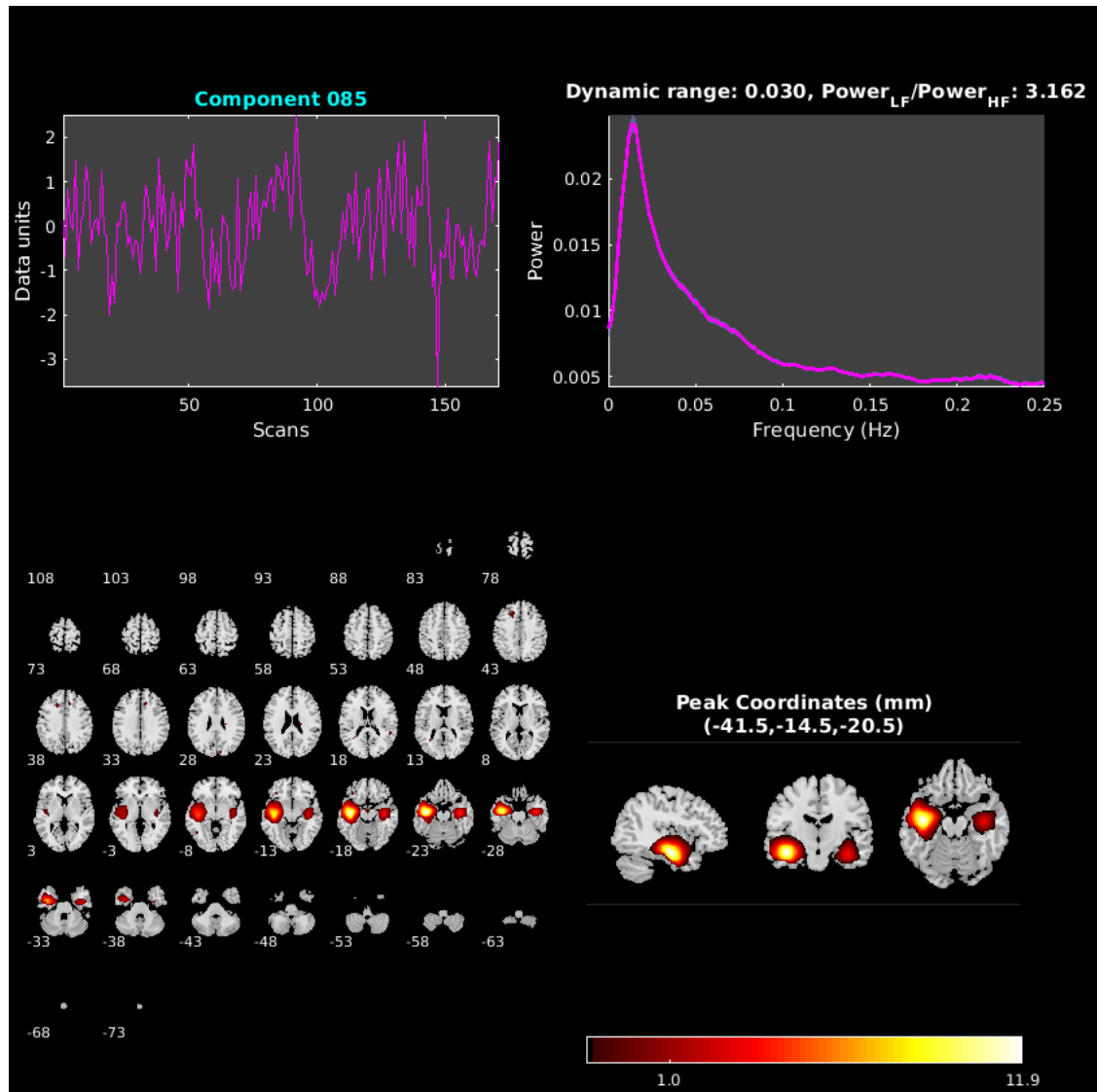


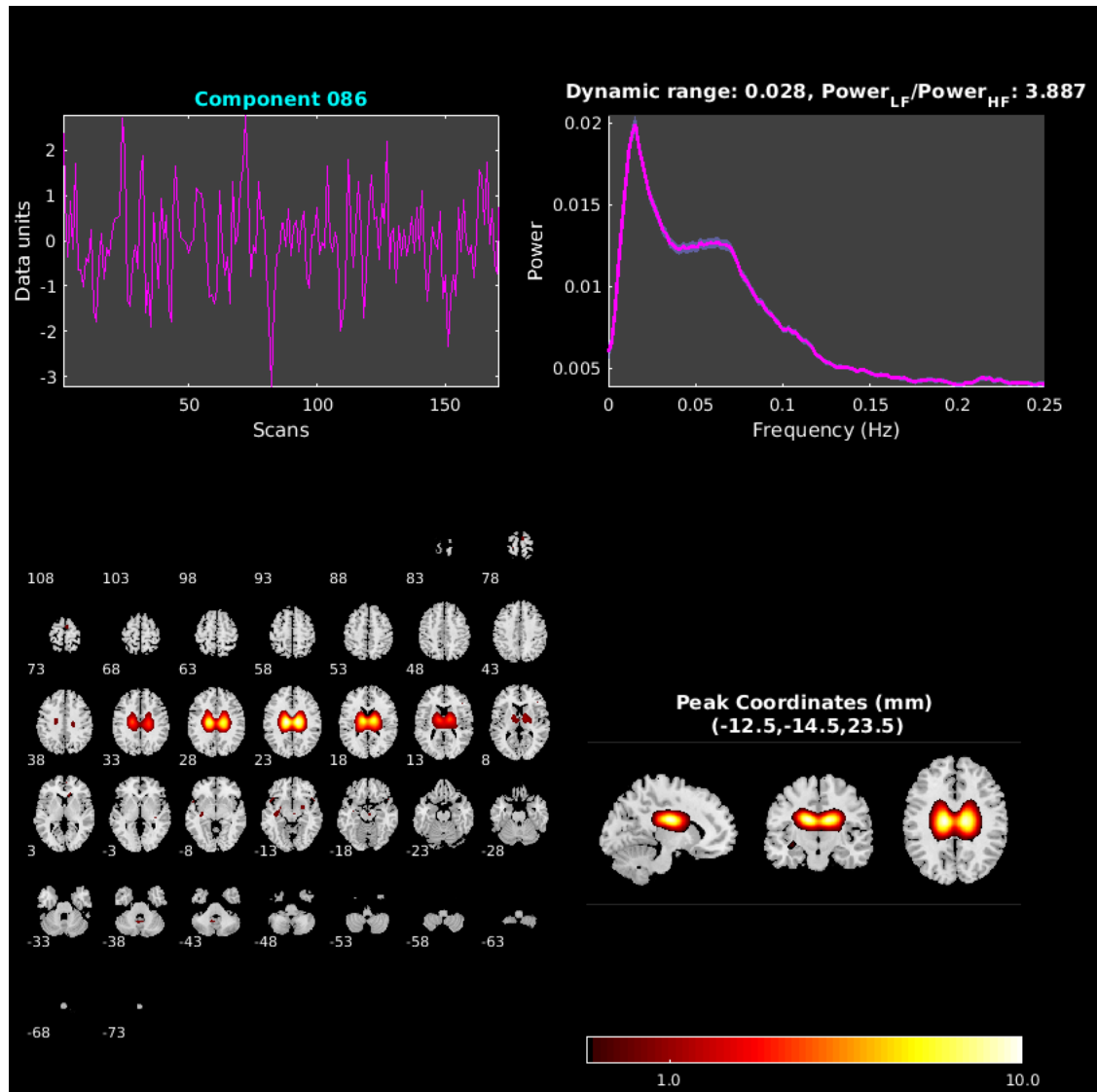


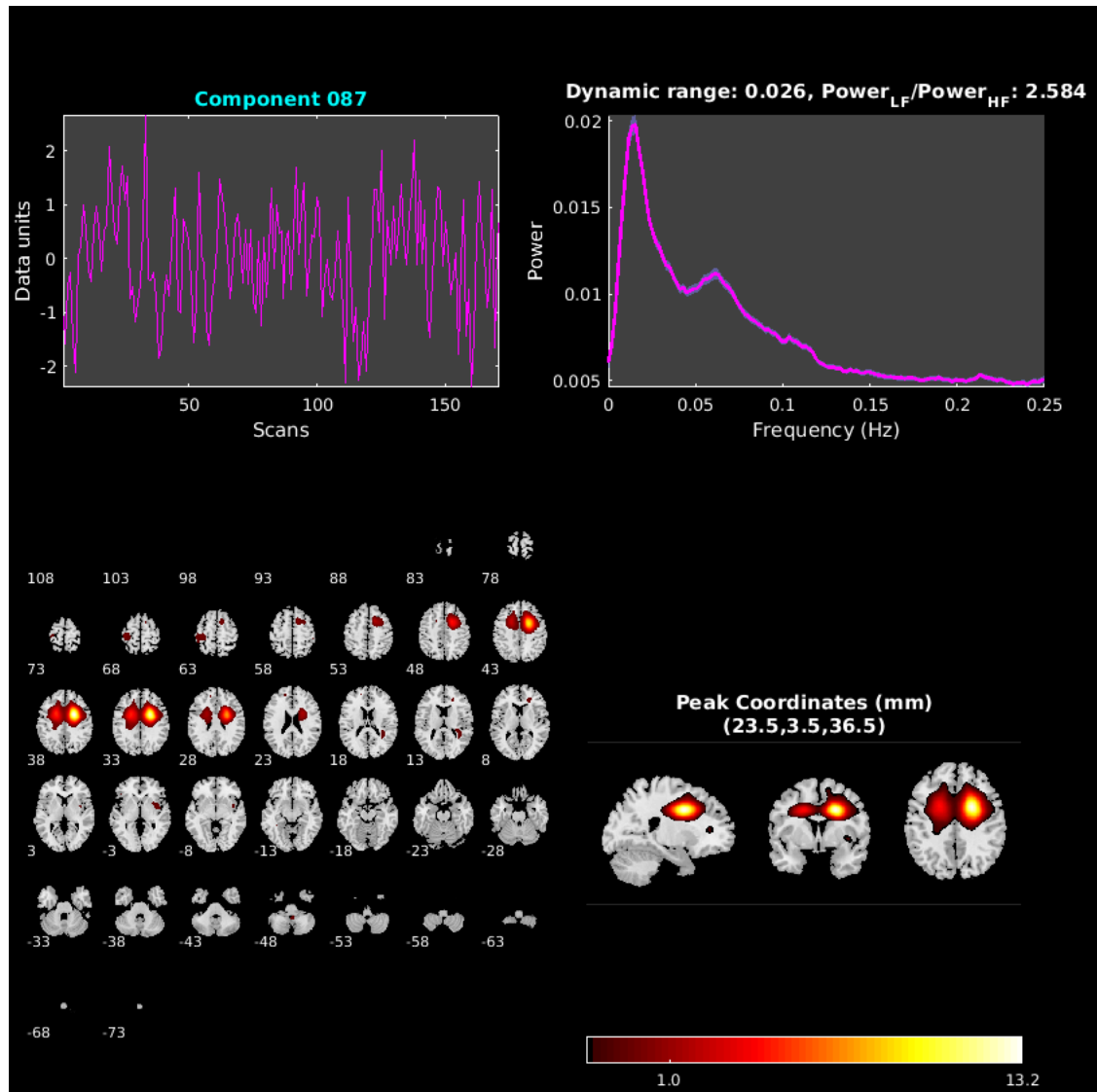


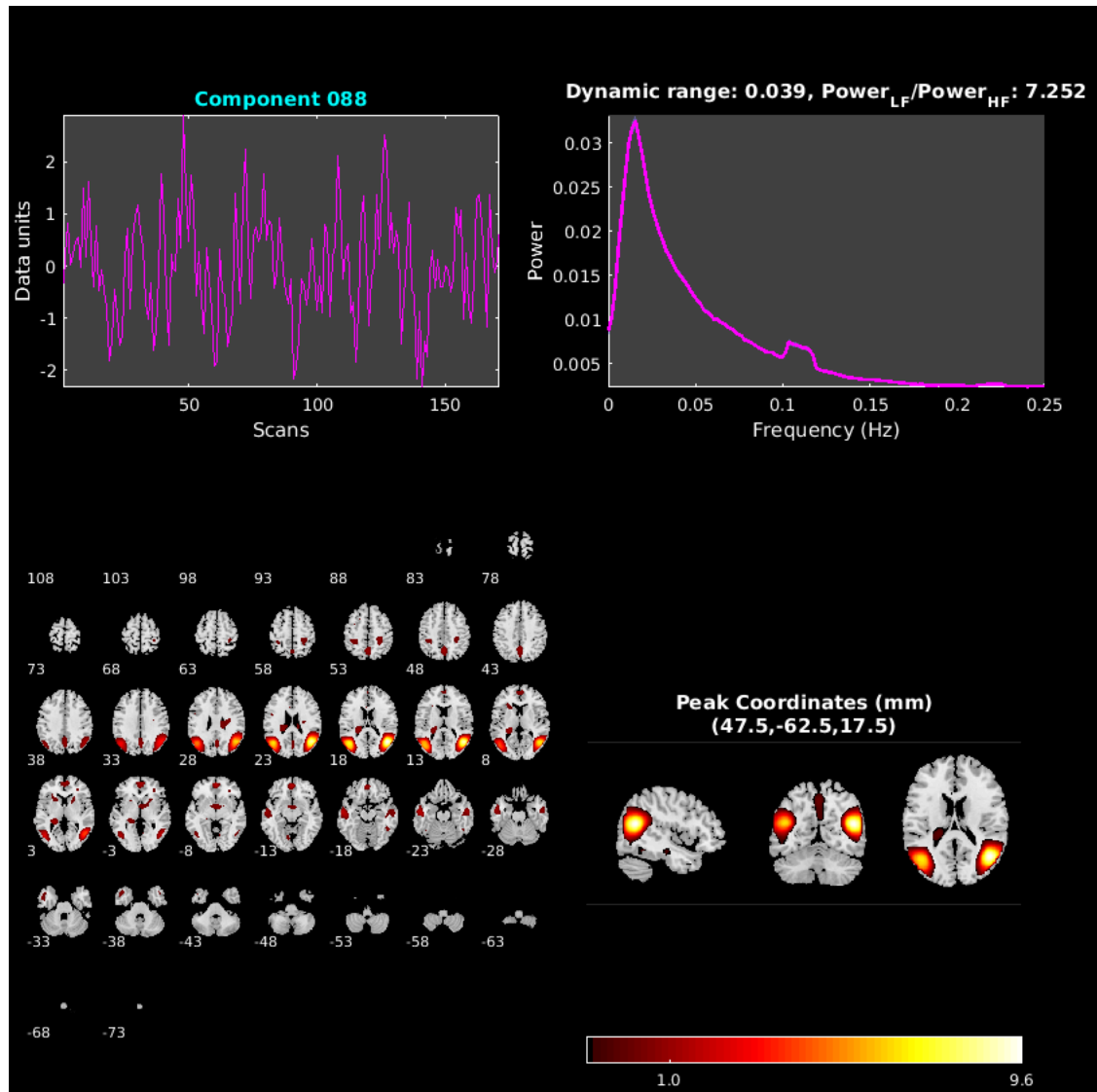


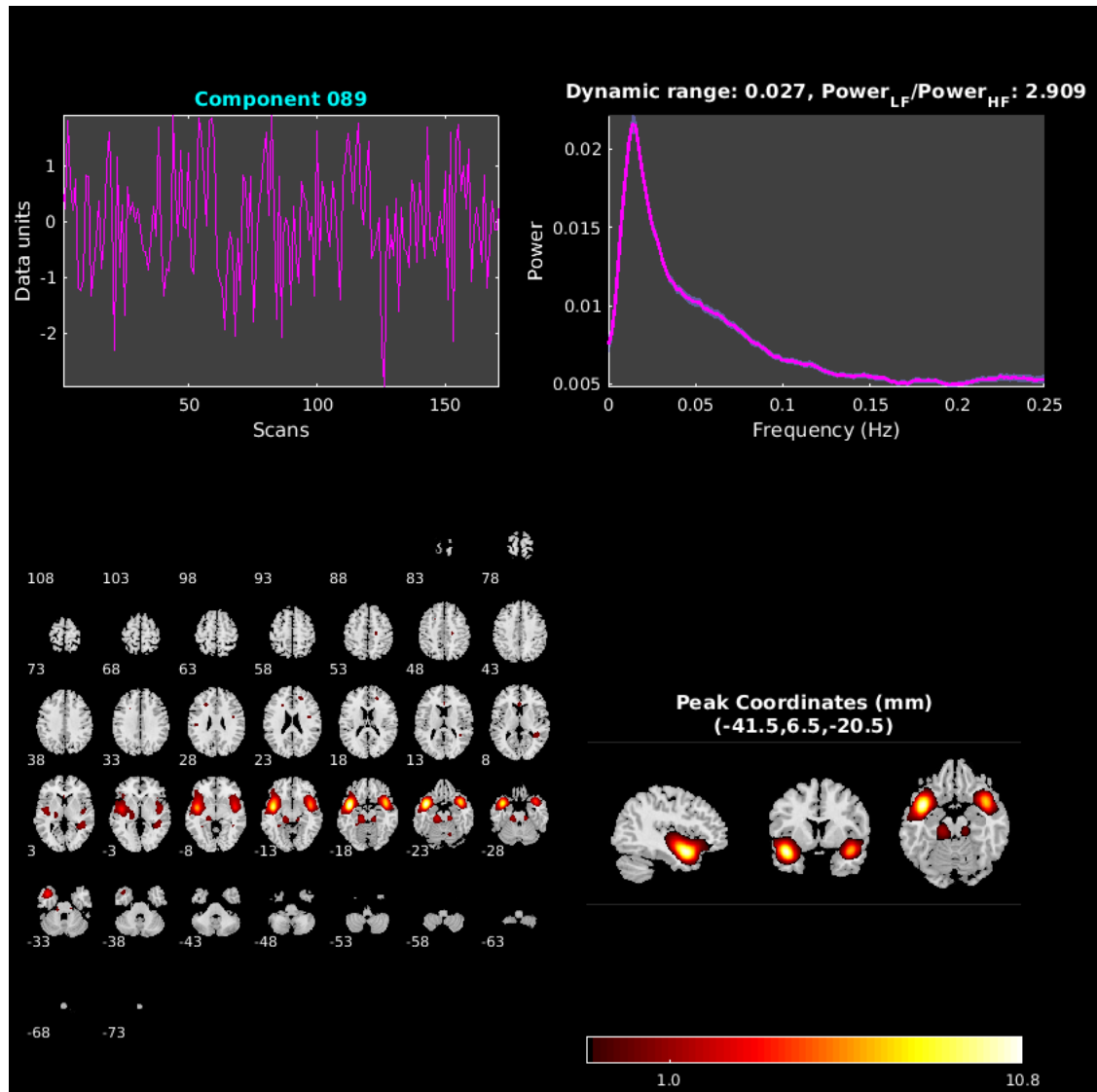


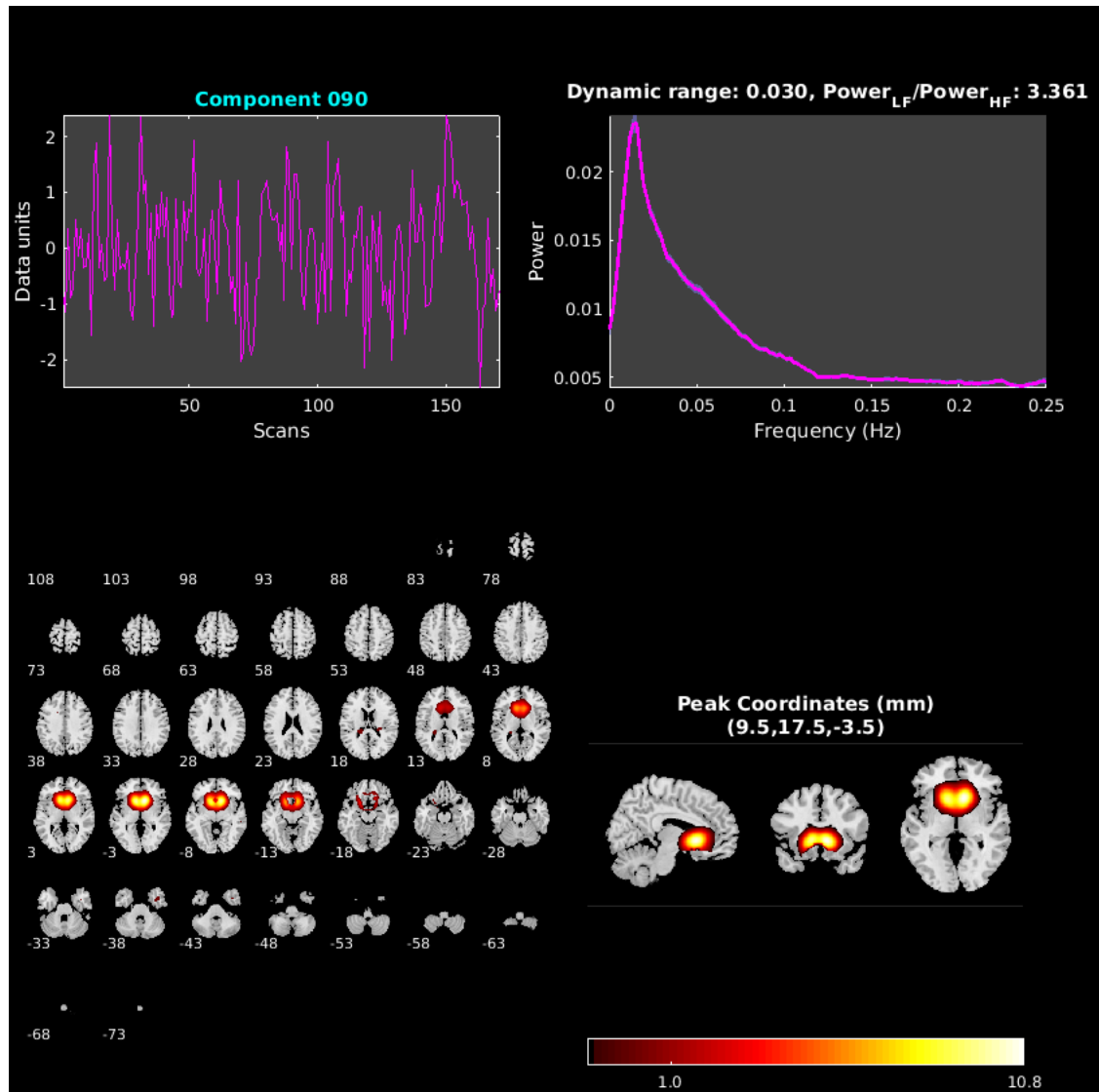


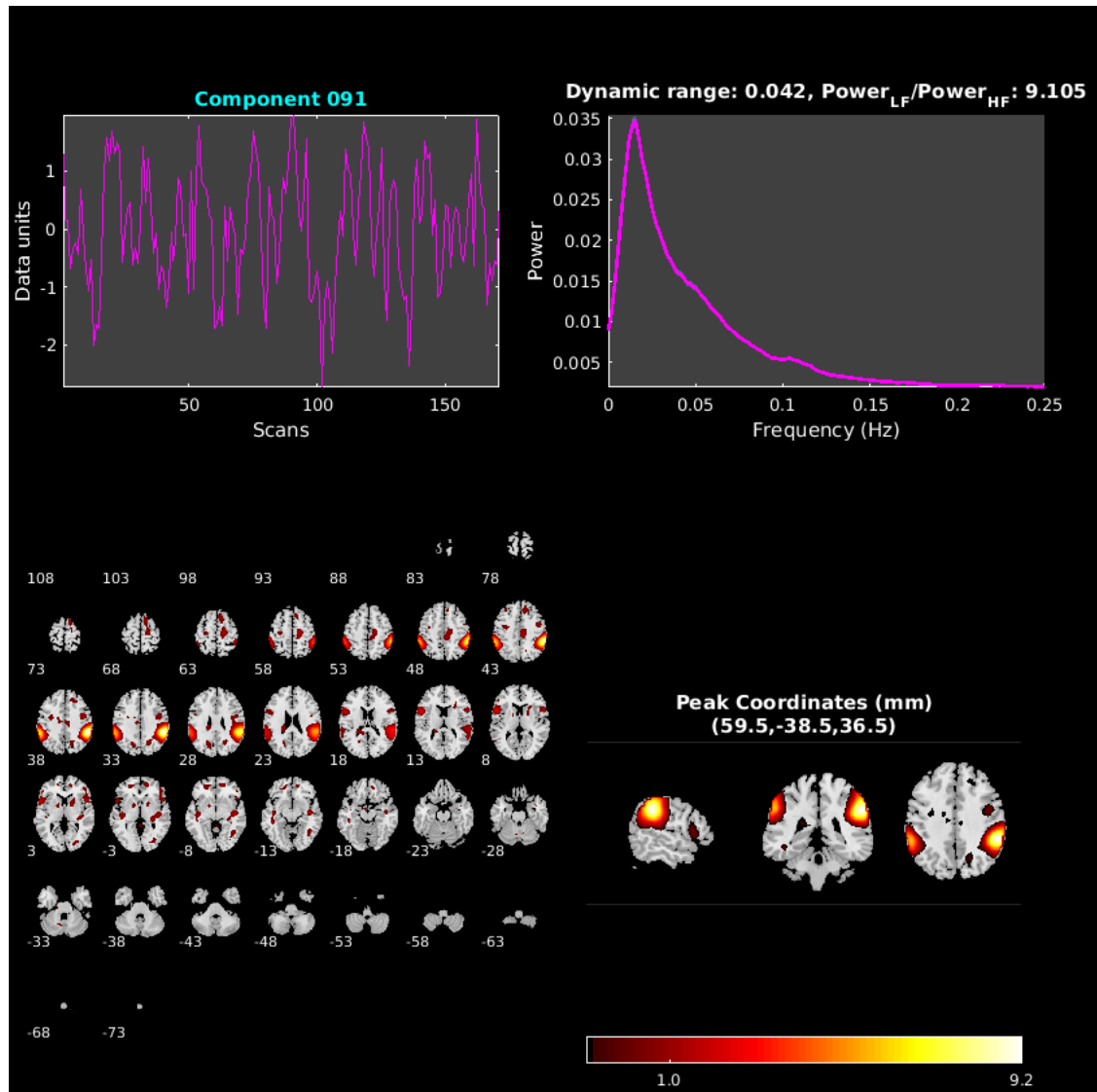


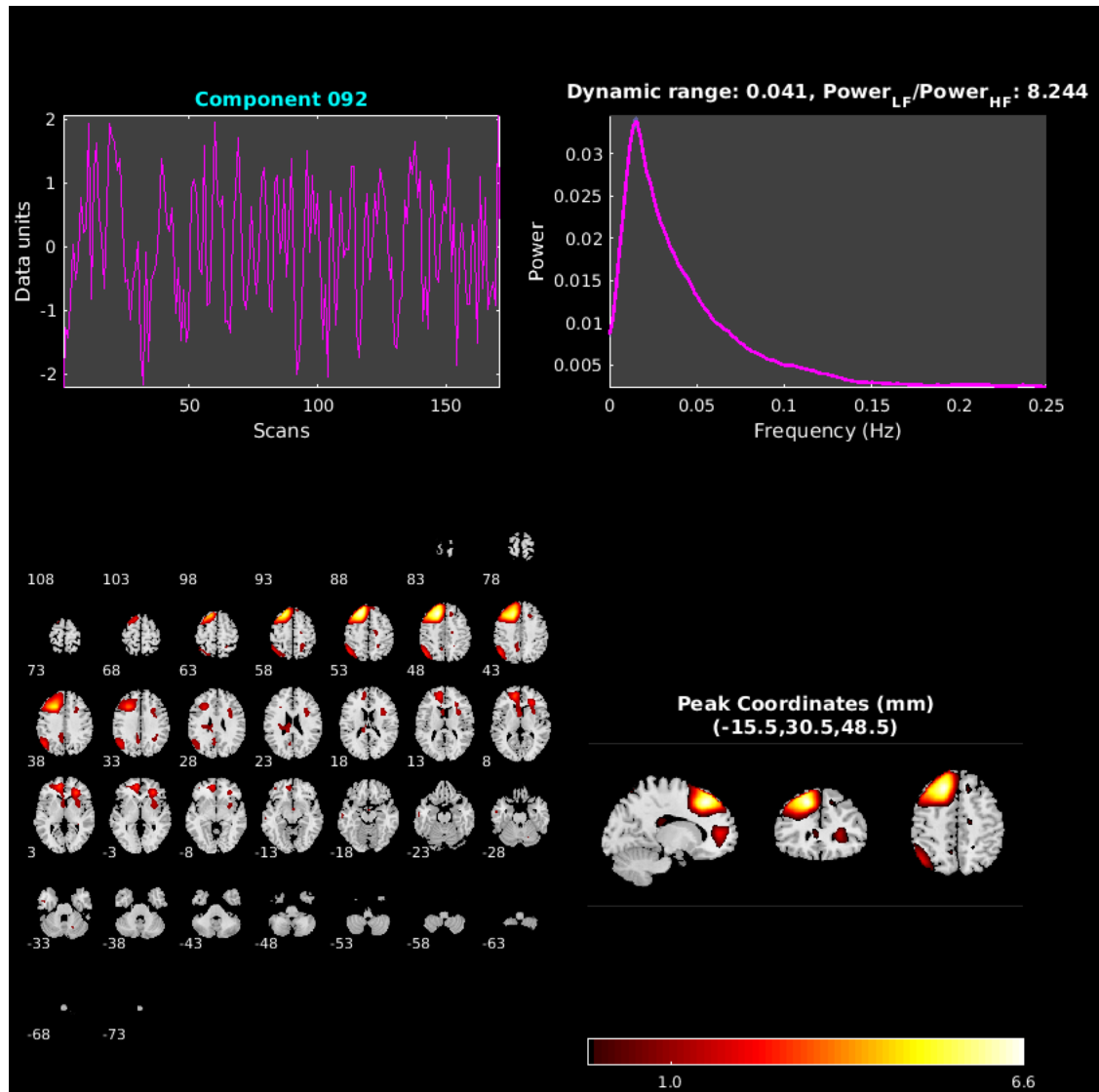


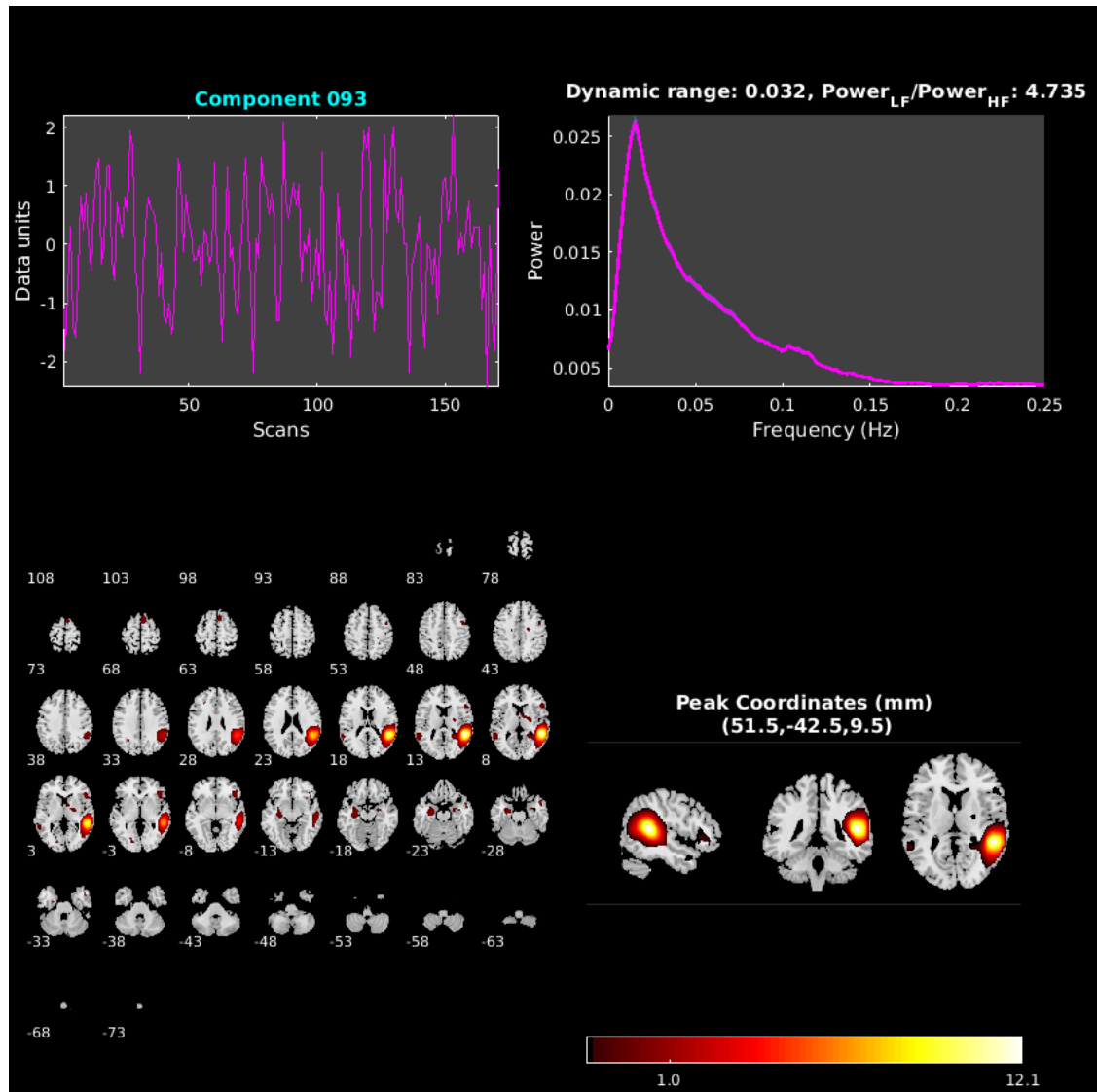


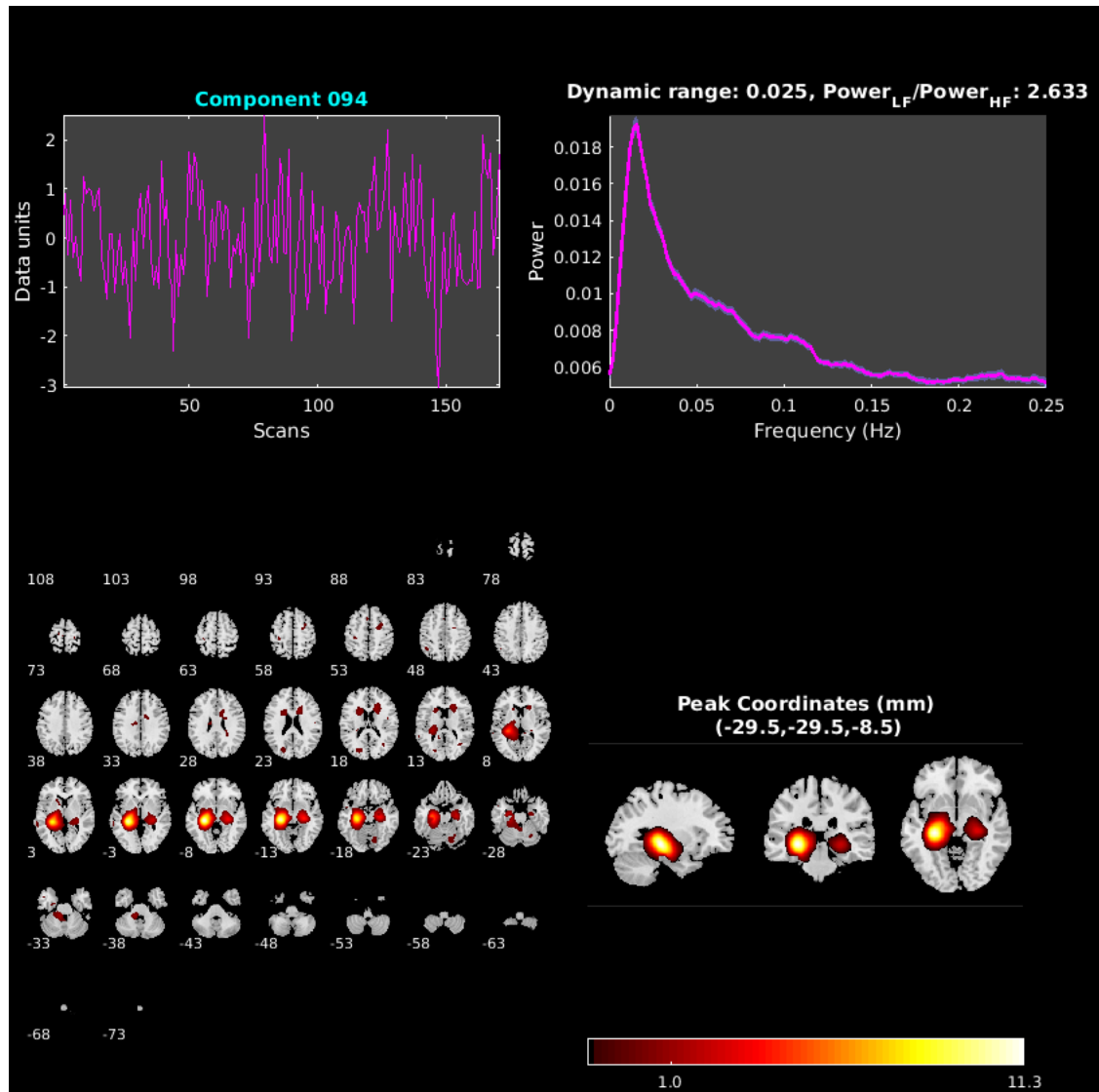


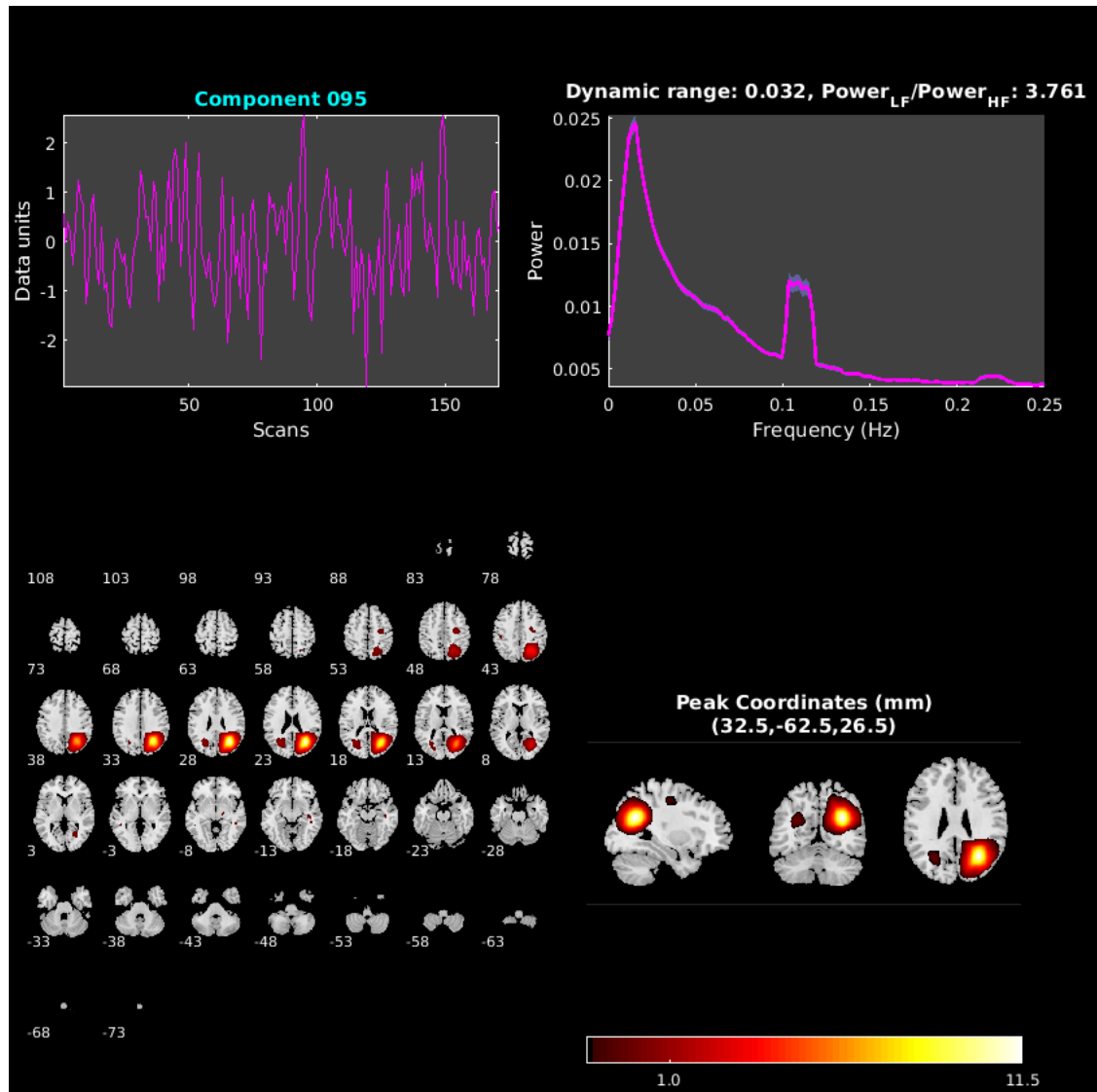


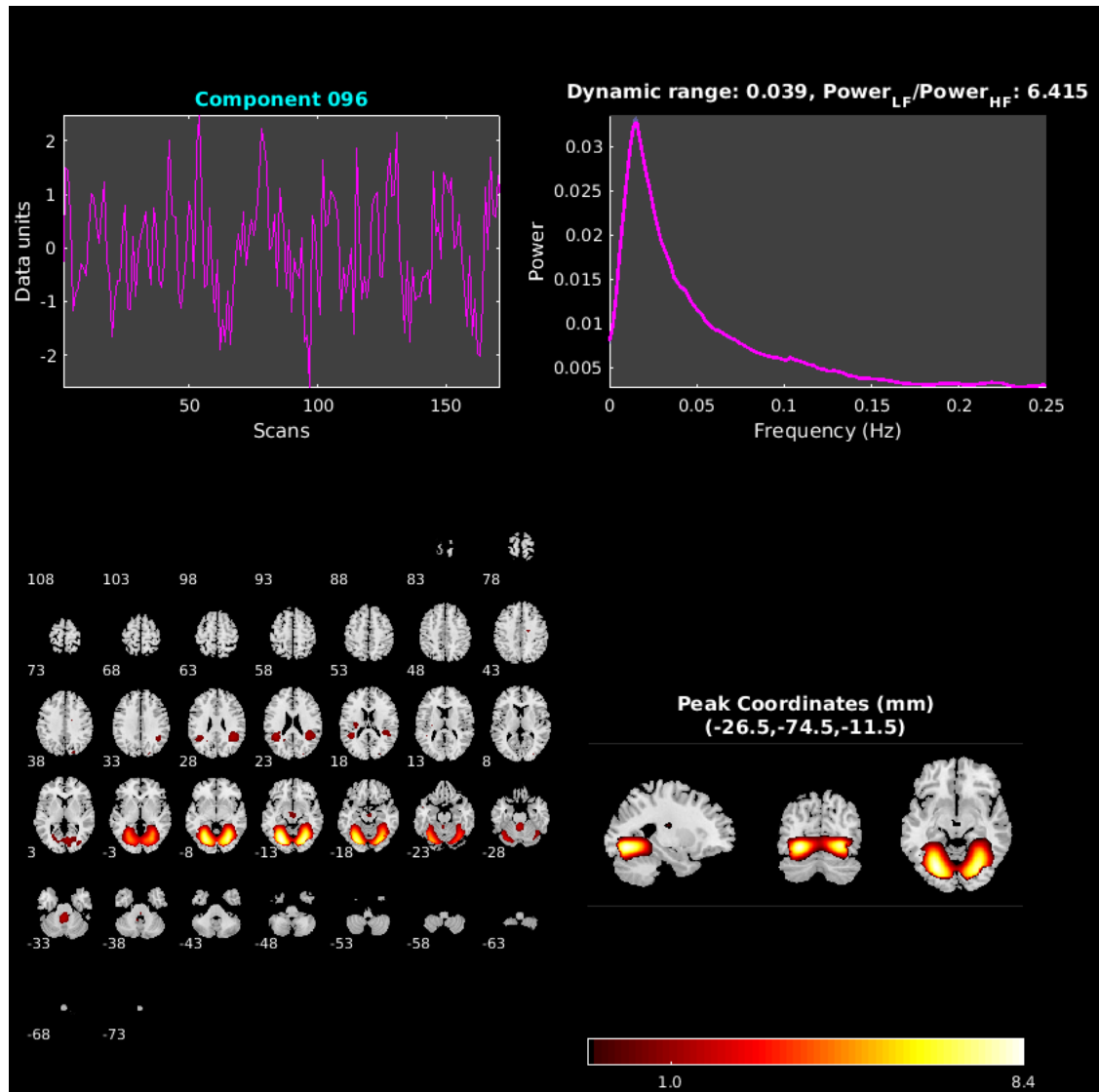


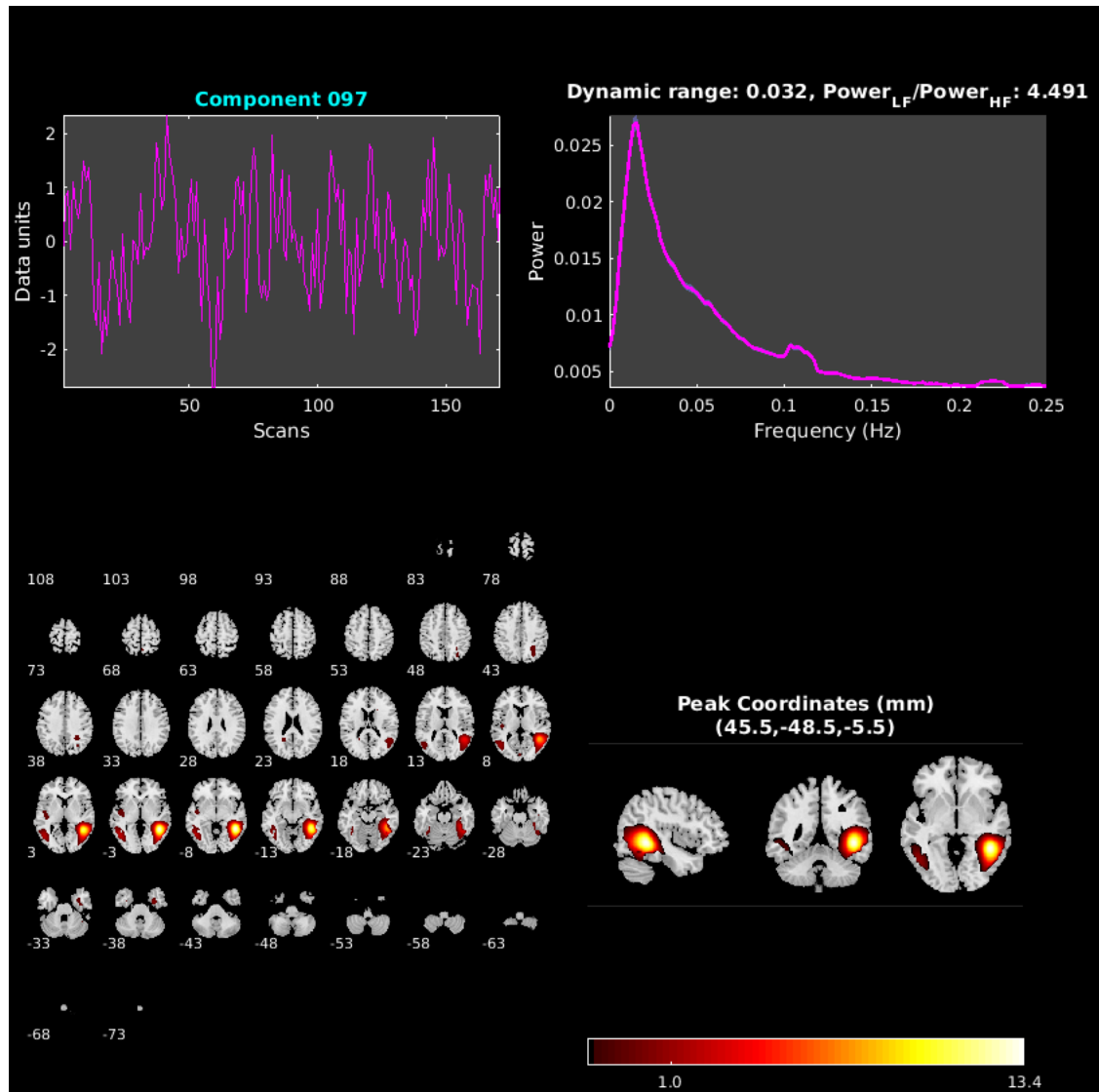


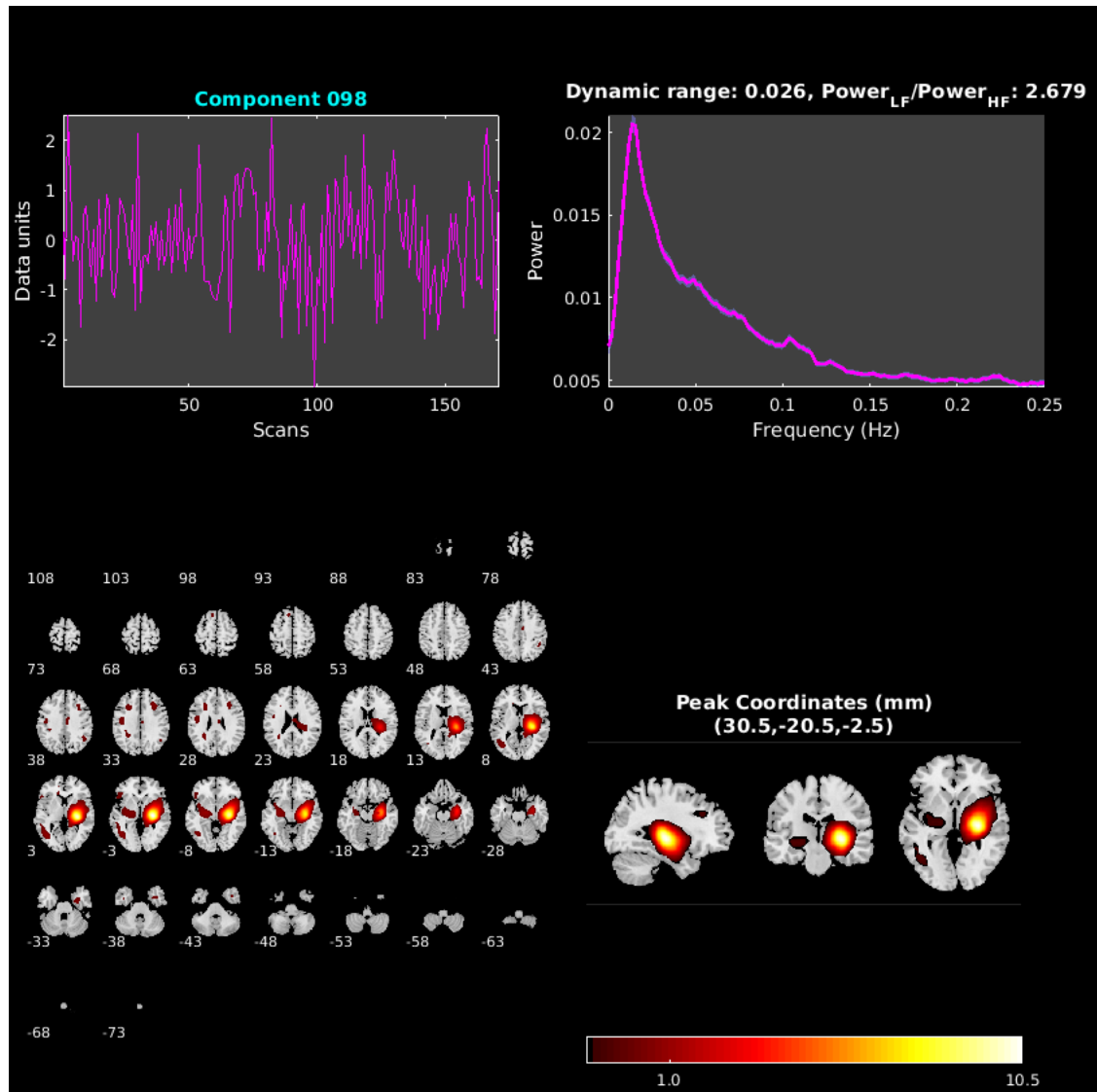


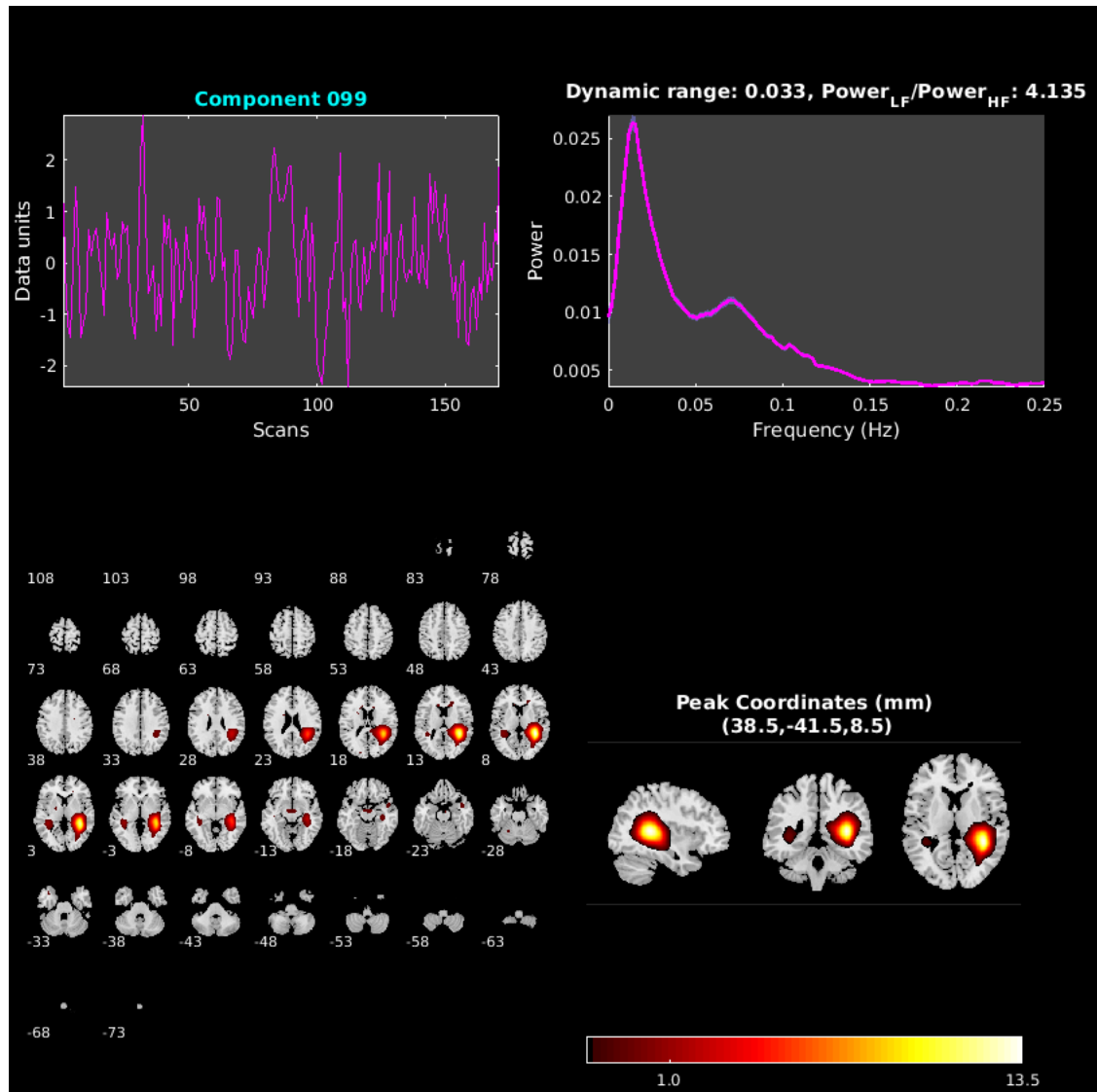


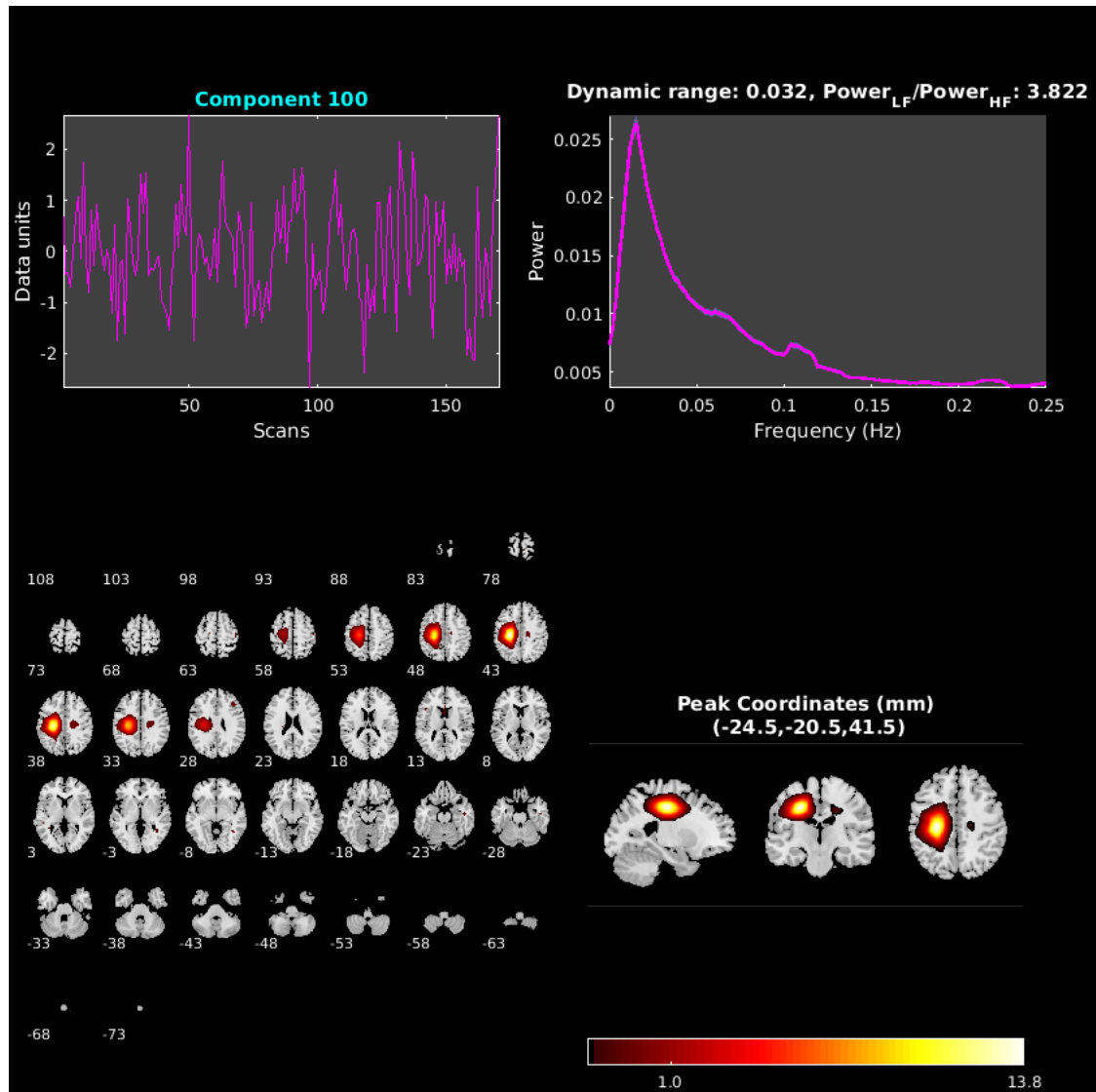












Spectral Summary

- **a) dynamic_range** - Difference between the peak power and minimum power at frequencies to the right of the peak.
- **b) fALFF** - Low frequency to high frequency power ratio.

<i>ComponentNumber</i>	<i>DynamicRange</i>	<i>fALFF</i>
1	0.026169	2.783
2	0.035973	7.7681
3	0.036324	6.8608
4	0.036971	6.2393
5	0.027696	2.9458
6	0.031323	3.9529
7	0.029745	2.8705

8	0.033576	4.3928
9	0.034126	5.9872
10	0.038935	8.4571
11	0.028879	2.9248
12	0.024204	2.3887
13	0.034171	5.5355
14	0.037478	6.3736
15	0.028237	3.0607
16	0.041338	11.67
17	0.025915	2.3971
18	0.022379	2.3421
19	0.023892	2.2536
20	0.035865	5.45
21	0.039177	8.5963
22	0.032094	3.9159
23	0.03866	6.8611
24	0.022884	2.284
25	0.034182	4.5944
26	0.030911	3.3237
27	0.032848	4.6703
28	0.032621	4.3214
29	0.035215	4.924
30	0.035313	6.551
31	0.037939	6.4154
32	0.031915	3.7381
33	0.030657	3.6387
34	0.03604	5.5412
35	0.028063	2.9833
36	0.035348	5.9812
37	0.033308	4.2029
38	0.034797	5.6806
39	0.030119	4.5913
40	0.029902	3.9008
41	0.028191	3.2047
42	0.034705	4.8108
43	0.032234	4.1908
44	0.030755	3.8756
45	0.033256	4.3625
46	0.034332	4.3826
47	0.031873	3.6442
48	0.039977	5.857
49	0.028268	3.0397
50	0.03497	5.0623
51	0.032879	4.4232
52	0.03164	3.3577
53	0.030598	3.2846
54	0.034857	4.9752
55	0.029317	3.6608
56	0.023145	2.254
57	0.037473	6.8207
58	0.033862	4.3698
59	0.026448	3.2422
60	0.035262	5.4558
61	0.037471	6.4777

62	0.029192	3.4961
63	0.042331	13.117
64	0.030682	3.6902
65	0.027297	2.7858
66	0.025557	2.9846
67	0.03612	4.9977
68	0.03028	3.5155
69	0.031506	4.8597
70	0.033232	3.7241
71	0.043223	10.302
72	0.045105	13.124
73	0.03351	4.1398
74	0.028359	3.1402
75	0.042315	11.819
76	0.027245	4.299
77	0.031792	5.1396
78	0.034968	5.0988
79	0.036322	5.3572
80	0.030922	3.9154
81	0.031618	4.2645
82	0.038962	7.517
83	0.041339	9.293
84	0.028475	3.9947
85	0.030355	3.1617
86	0.027659	3.8867
87	0.025685	2.5845
88	0.039219	7.2522
89	0.027388	2.9087
90	0.029842	3.3606
91	0.041839	9.1046
92	0.041431	8.2445
93	0.032306	4.7348
94	0.024639	2.6333
95	0.032498	3.7614
96	0.039114	6.4152
97	0.032424	4.4905
98	0.025899	2.6795
99	0.033485	4.1351
100	0.0321	3.8223

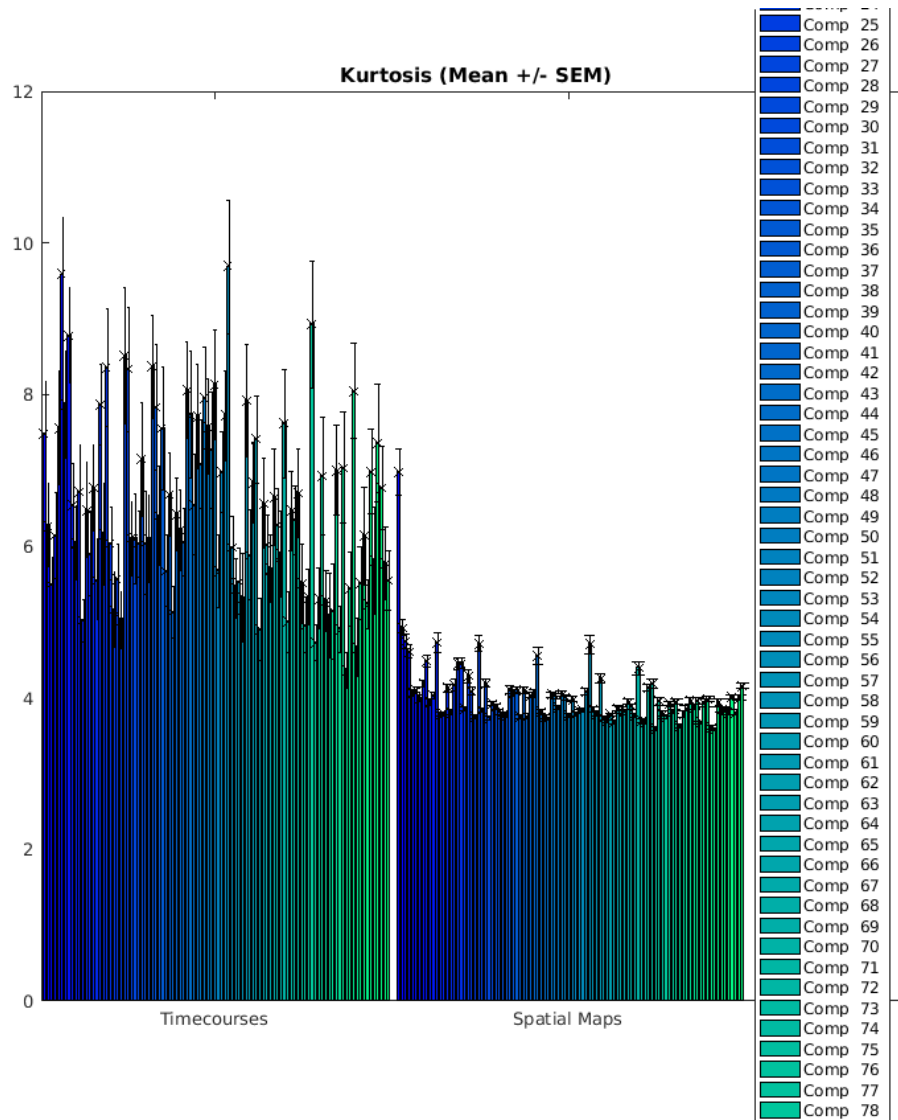
Kurtosis of timecourses and spatial maps

Mean across subjects is reported in table. Figure shows mean+/- SEM across subjects

<i>ComponentNumber</i>	<i>Timecourses</i>	<i>SpatialMaps</i>
1	7.4884	6.9855
2	6.2744	4.9334
3	5.5023	4.7505
4	6.1447	4.6199
5	7.5659	4.0766

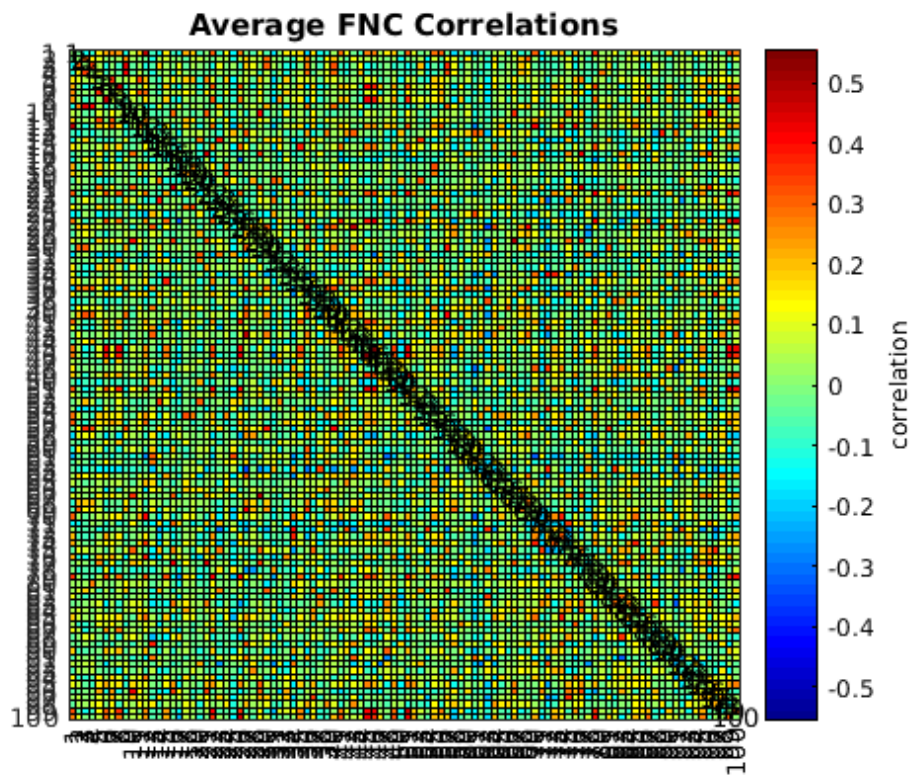
6	9.5817	4.1139
7	7.8785	4.0076
8	8.7801	4.1916
9	6.5499	4.4945
10	6.0458	3.9573
11	6.726	4.0425
12	5.0248	4.7341
13	6.4815	3.7905
14	5.9119	3.799
15	6.779	4.1347
16	5.5627	3.8166
17	7.8726	4.1788
18	6.1643	4.4575
19	8.3622	4.465
20	6.0413	3.8685
21	5.1721	4.2923
22	5.5752	4.0984
23	5.0295	3.7574
24	8.5208	4.7244
25	8.3385	3.8503
26	6.1067	4.2026
27	6.106	3.7423
28	6.0383	3.9348
29	7.1527	3.8902
30	6.0487	3.8198
31	6.1023	3.7963
32	8.3781	3.7733
33	7.8416	4.1106
34	6.4079	4.0661
35	7.5634	4.1053
36	5.6853	3.7521
37	6.6902	4.1077
38	5.1362	3.7637
39	6.4253	4.0442
40	6.22	4.0648
41	6.0587	4.5604
42	8.072	3.8323
43	7.7394	3.7582
44	6.5581	3.7326
45	7.7183	4.0467
46	7.0897	4.0347
47	7.9561	3.8771
48	7.5843	4.0627
49	7.2733	4.0193
50	8.1369	3.7777
51	5.6774	3.9924
52	6.981	3.7914
53	7.7294	3.8343
54	9.6855	3.8489
55	5.9934	4.0942
56	5.4581	4.7117
57	5.5451	3.8562
58	5.3249	3.8017
59	7.9286	4.2679

60	5.8872	3.7376
61	6.8456	3.7135
62	7.4181	3.7862
63	4.9135	3.6951
64	6.5722	3.8709
65	6.0243	3.8406
66	5.7077	3.8209
67	6.6598	3.9537
68	6.2813	3.8917
69	5.9079	3.7807
70	7.6258	4.4006
71	5.0087	3.7057
72	6.4756	3.6907
73	6.3498	4.1401
74	6.7094	4.1993
75	5.5118	3.6011
76	4.9694	3.9614
77	5.3339	3.7958
78	8.9302	3.7541
79	4.7361	3.9318
80	5.3188	3.8219
81	6.9341	3.9546
82	5.2873	3.6309
83	5.0874	3.7912
84	5.1503	3.8684
85	7.0074	3.9659
86	4.9148	3.8866
87	7.0413	3.9702
88	4.3709	3.6831
89	5.4478	3.9377
90	8.0573	3.9886
91	4.6704	3.6214
92	5.5274	3.59
93	6.1416	3.9437
94	5.2391	3.8613
95	6.9929	3.8433
96	5.8177	3.8182
97	7.3684	4.0202
98	6.7778	3.817
99	5.7813	4.0114
100	5.5602	4.1683



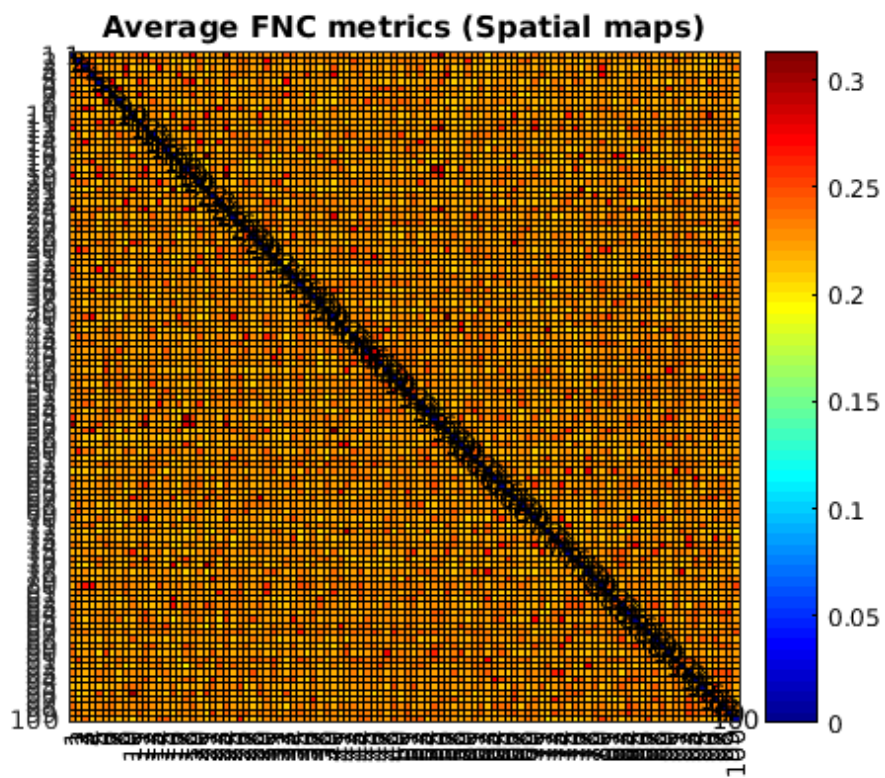
FNC correlations

Functional network connectivity correlations are computed for each data-set and averaged across sessions.



FNC metrics of component spatial maps

Mutual information is computed between components spatially and averaged across data-sets.



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