

Hudspeth Maps There are 3 Pre & 3 Post maps. *(All maps are with eyes closed.)*

Text and layout based on content and photos excerpted from emails from Dr. Nancy White, PhD to Dr. Sandra Rose Michael, DNM and Dr. Greg Gerber, MD. March 2006. This was report was prepared by Natasha Taylor, June 2008.

PRE 1 is the NeuroRep Data base comparison. They are in standard deviations from the norm *(a population within a few months of the patients age)*.

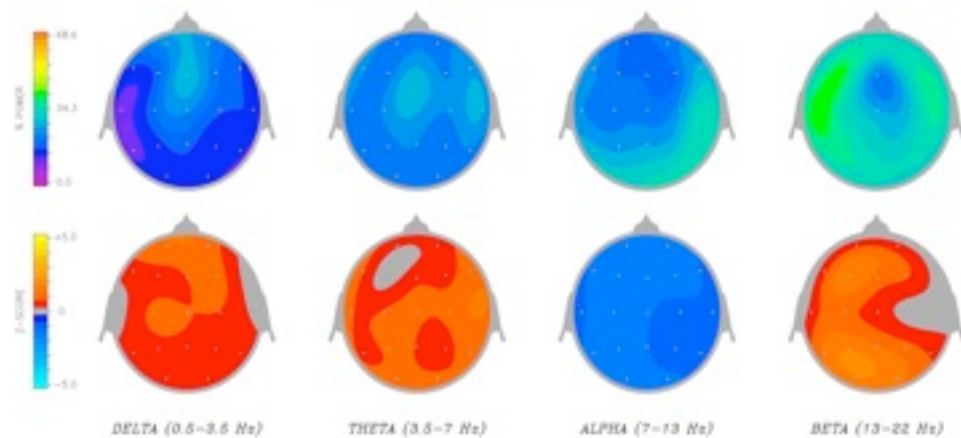
NAME: STEVEN LOUIS AGE: N/C: 60 43 YD KM DATA: 67 Sec FILE: SLO663EC DATE: 12/13/05 PAGE: 124

RELATIVE POWER:

A. Z-SCORE RELATIVE POWER

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20
DELTA	1.34	1.05	0.56	0.42	0.68	0.83	0.97	0.45	0.41	0.86	0.80	0.73	0.53	0.55	0.56	0.57	0.57	0.72	0.79	
THETA	0.72	0.73	1.33	1.28	0.46	0.58	0.70	1.18	1.34	0.90	1.01	1.13	0.89	0.93	0.89	0.85	0.80	1.02	0.97	
ALPHA	-1.62	-1.46	-1.28	-1.18	-1.74	-1.85	-1.55	-1.09	-0.82	-1.58	-1.37	-1.16	-1.36	-1.11	-1.50	-1.33	-1.17	-1.47	-1.36	
BETA	0.30	0.25	0.19	0.28	1.69	1.27	0.86	0.02	-0.44	0.99	0.54	0.09	1.13	0.68	1.90	1.57	1.13	1.54	1.32	

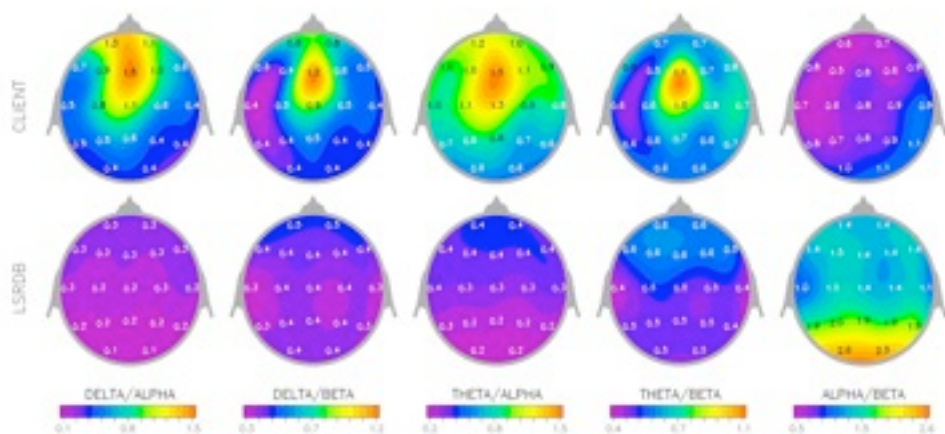
B. RELATIVE POWER AND Z-SCORE TOPOGRAPHS



← The top row is the numerics - ie. Delta, F1 is 1.34 standard deviations too much delta

← The next row of heads shows the electrical energy and where it is located and is not compared to anyone else.

C. FREQUENCY RATIOS



The row of importance is the one with the red Delta and Theta heads. It shows an excess of Delta (*sleep wave*) and Theta (*creative but out to lunch and damage wave*). There is a shortage of alpha (*all blue*), as was shown in the LORETA mapping (See *Neuroguide (relative power) and LORETA document*). There is some excess beta.

Post 1 after one hour in the EESystem shows a surprising amount of normalizing, The Delta (red) has diminished and become almost entirely normal and the Theta has also diminished and much of the head is in the normal range. The Alpha (all blue) has increased and moved more toward normal as seen in the numerics. Beta has decreased in most areas except frontal.

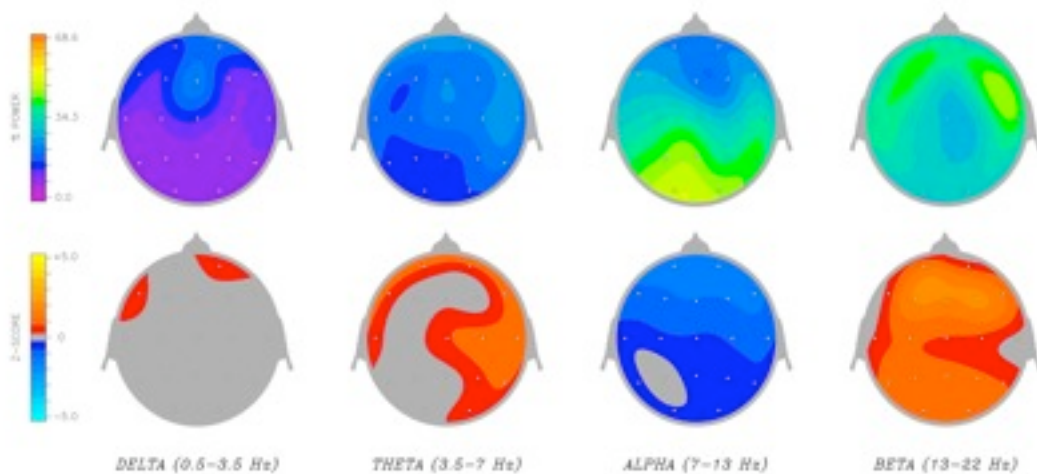
NAME STEVEN LOUIS AGE/H/G: 60/43/YO BW DATA: 45 Sec FILE: SLO683-1 DATE: 12/13/05 PAGE: LS4

RELATIVE POWER:

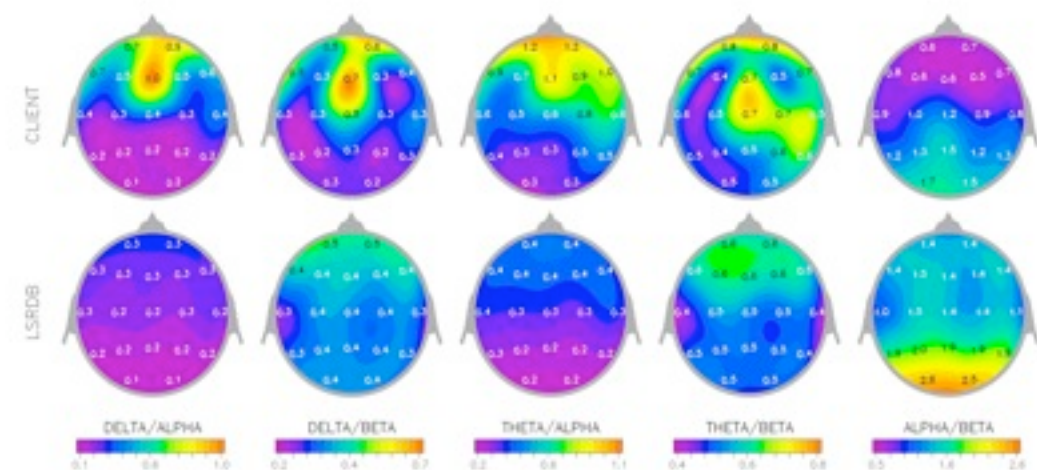
A. Z-SCORE RELATIVE POWER

	F1	F2	F7	F8	F3	Fz	F4	T3	T4	C3	Cz	C4	T5	T6	P3	Pz	P4	O1	O2
DELTA	0.28	0.68	0.52	0.14	0.20	0.12	0.04	0.34	0.23	-0.07	-0.11	-0.14	-0.06	-0.08	-0.29	-0.30	-0.31	-0.11	-0.08
THETA	1.31	1.18	1.07	1.17	0.02	0.24	0.46	0.72	0.87	0.31	0.69	1.07	0.35	0.69	0.21	0.42	0.64	0.28	0.52
ALPHA	-1.43	-1.47	-1.23	-1.37	-1.24	-1.31	-1.39	-0.61	-0.77	-0.59	-0.73	-0.87	-0.62	-0.70	-0.41	-0.52	-0.64	-0.50	-0.67
BETA	0.66	0.31	0.40	1.03	1.86	1.92	1.97	-0.09	0.05	0.92	0.79	0.65	0.90	0.80	1.22	1.13	1.05	1.05	1.12

B: RELATIVE POWER AND Z-SCORE TOPOGRAPHIES

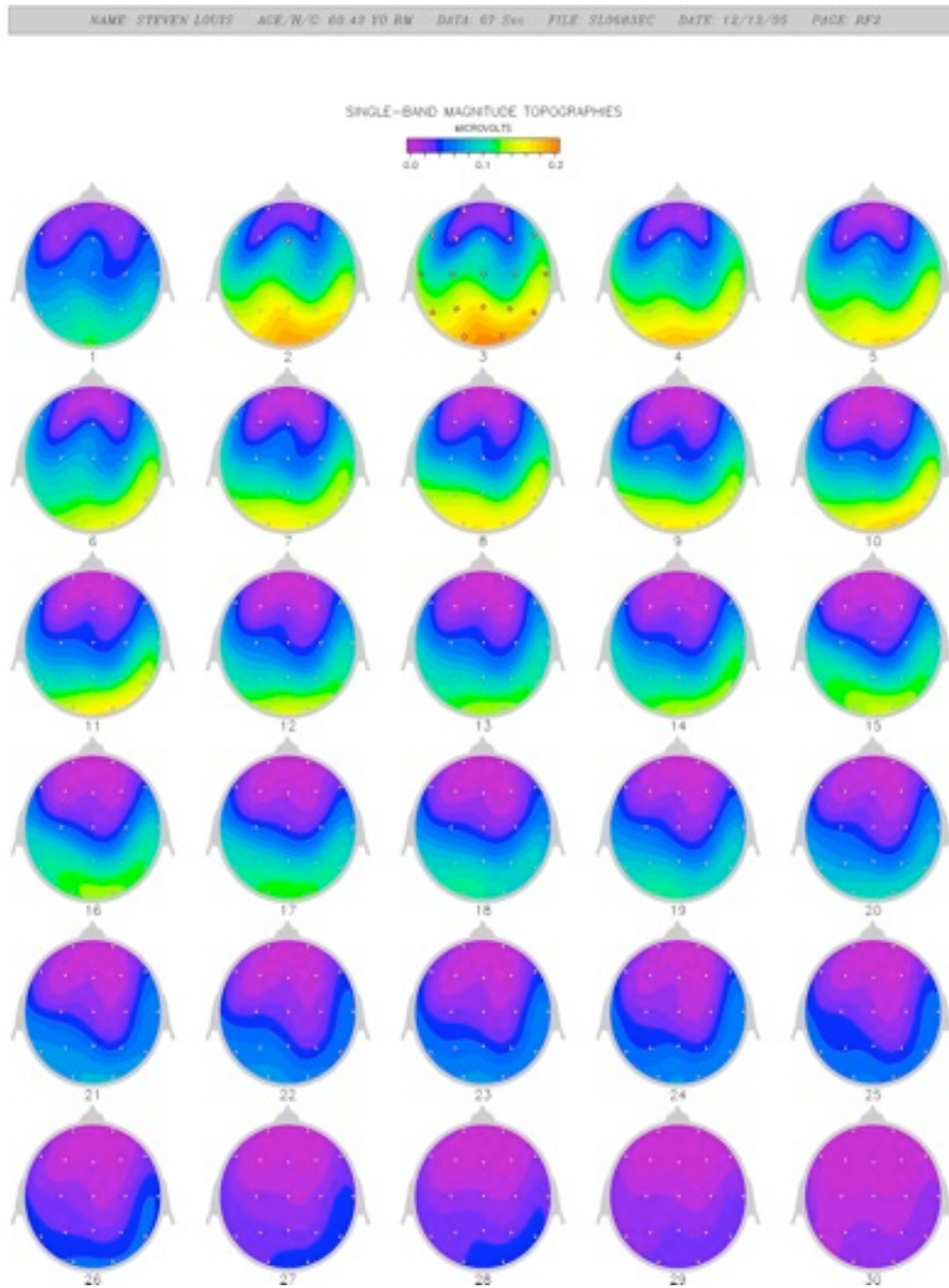


C: FREQUENCY RATIOS

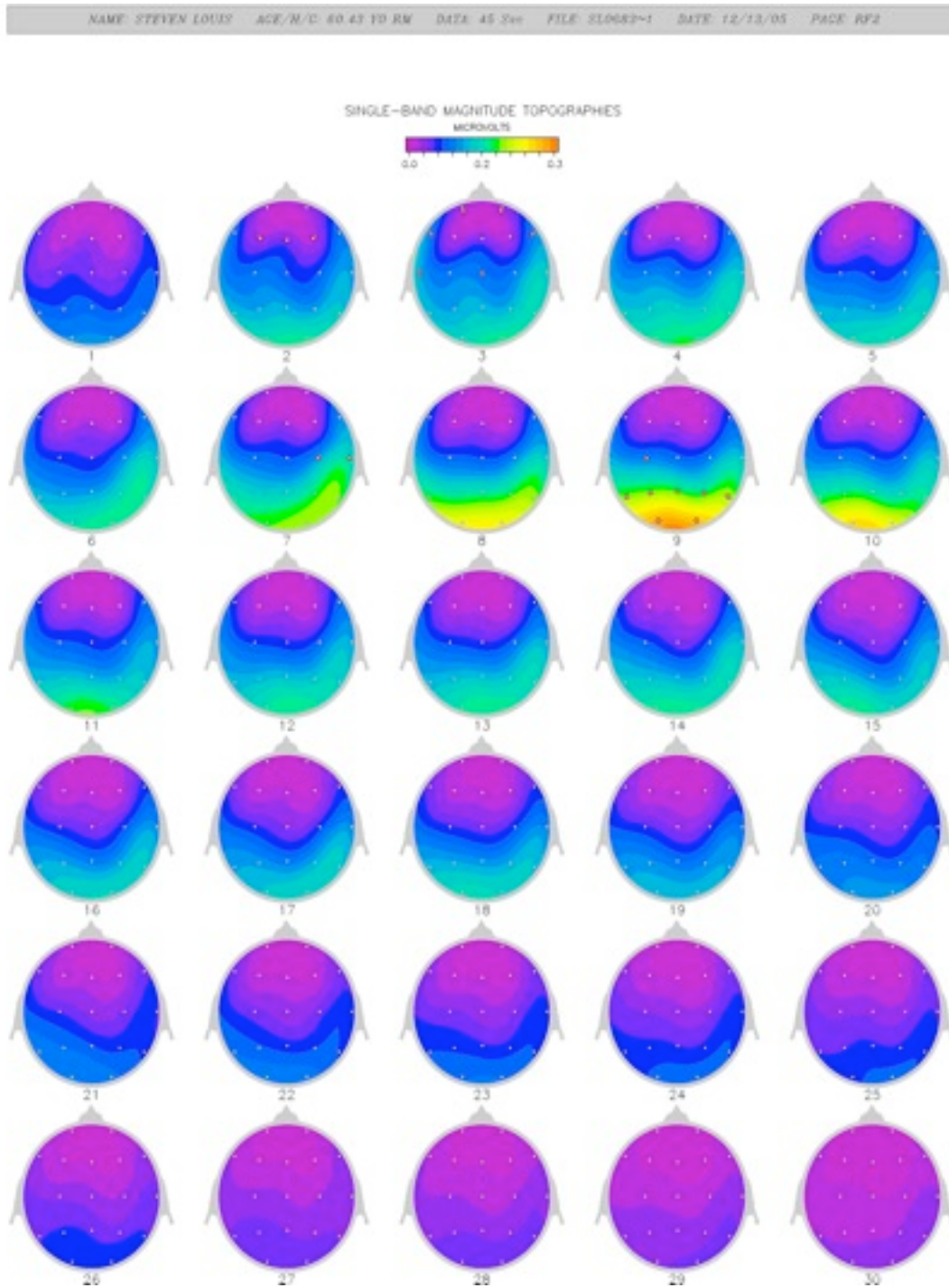


(The bottom two rows is a data base comparison to slow wave ratio to slower wave. The next to the last row is the client and the bottom row is the data base info.)

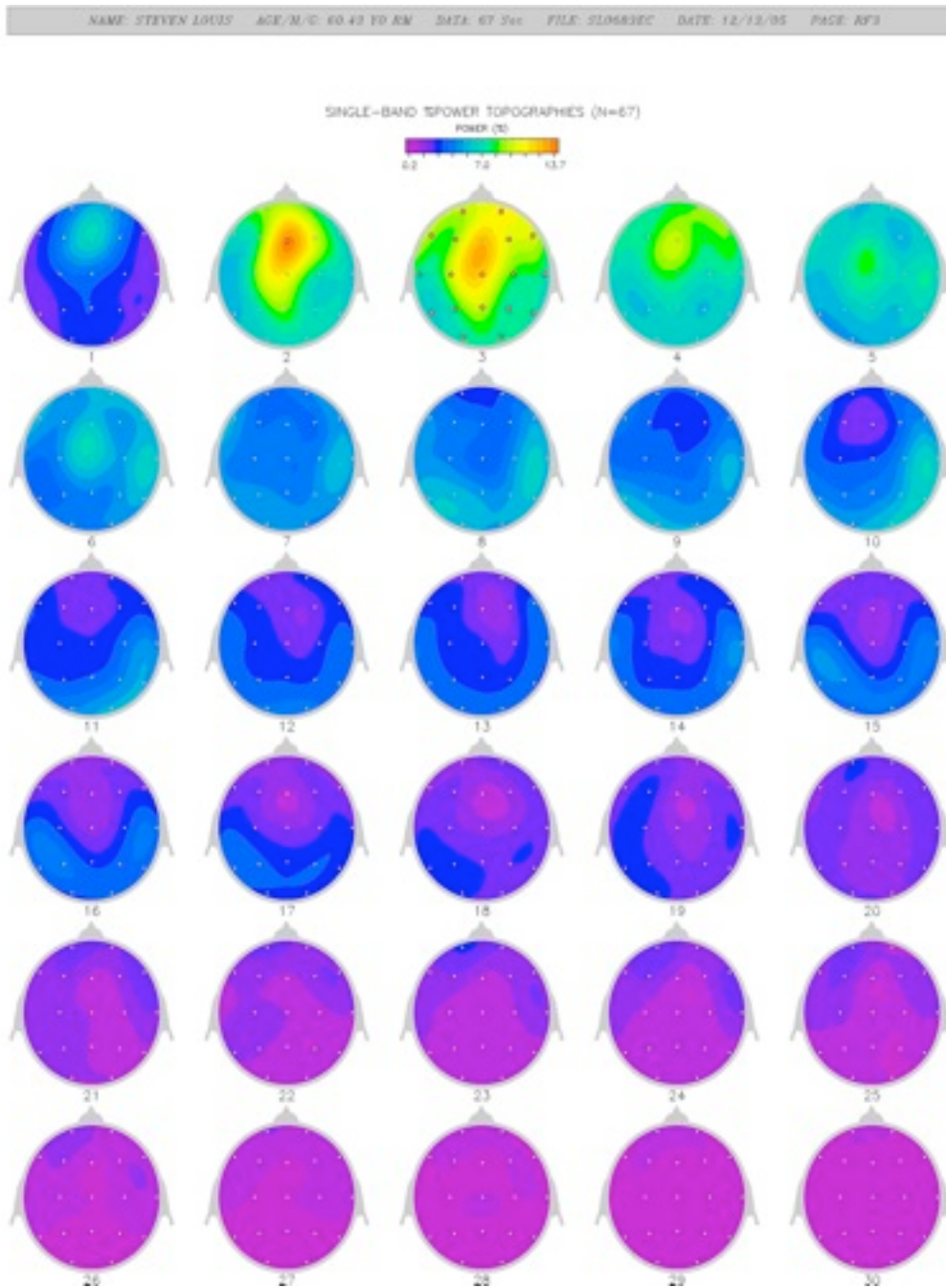
Pre 2 is a single hertz bins Magnitude map. The energy of the brain is predominantly located at 3 HZ and there is a lot of posterior slow wave.



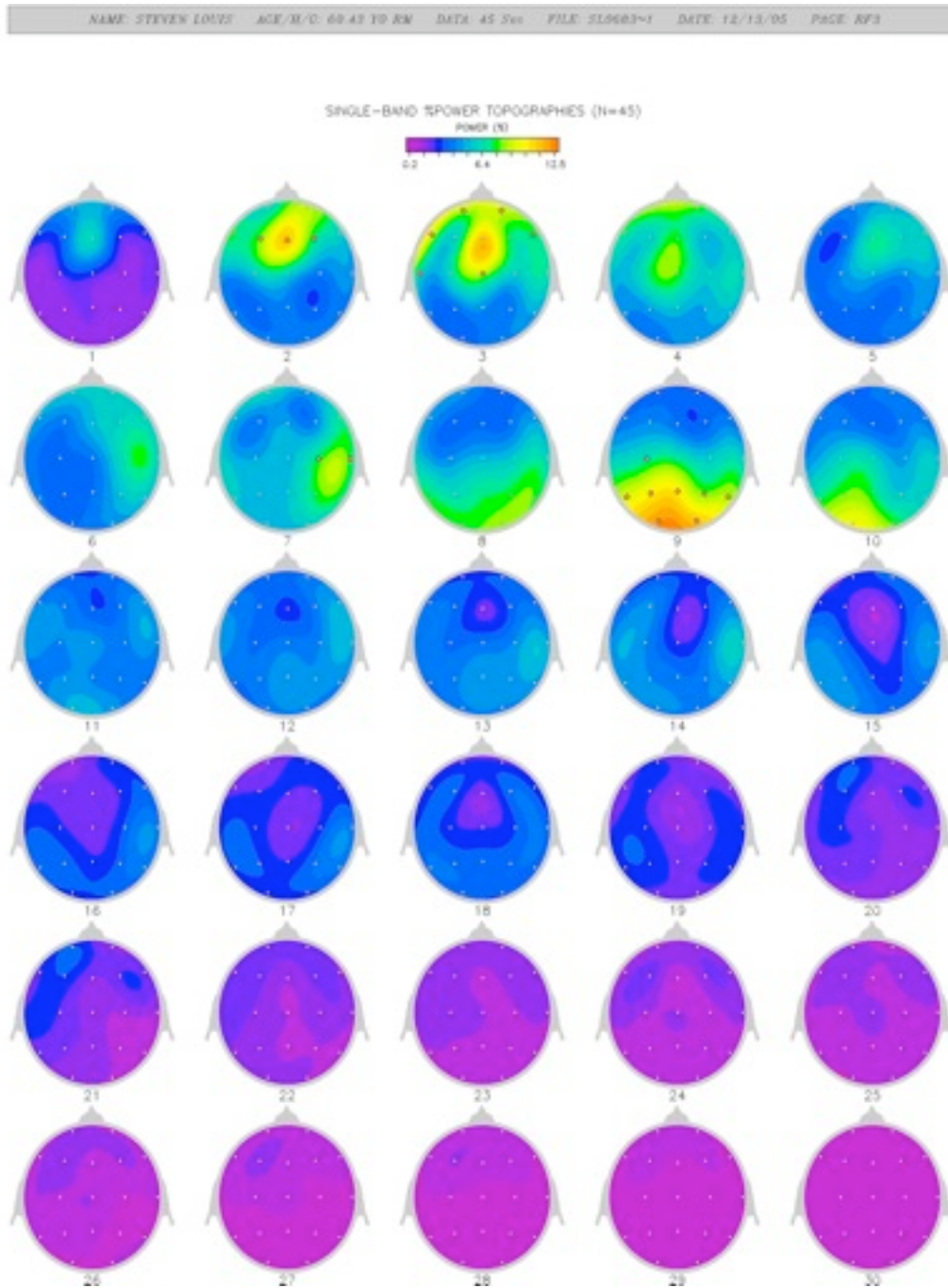
Post 2 has considerably normalized. The energy at 3 HZ has greatly diminished as has all the slow wave and we now see 9 HZ Alpha as is more normal for someone sitting with their eyes closed. The posterior slowing has diminished in all the lower frequencies.



Pre 3 is percent power and again shows a predominance of 3 Hz with a predominant slowing at PZ (*frontal central*). (Note: It is over the anterior cingulate gyrus and most likely denotes some obsessive behaviors.)



Post 3 like the magnitude maps has diminished the 3 HZ energy and shows more normal posterior Alpha at 9 Hz. The slowing at PZ and some CZ (*top of the head over the Thalamus and Cingulate gyrus*) is still present. **It would be interesting to see if that would diminish with more time in the EESystem.**



All in all, it is an amazing normalizing for only an hour. Will it hold? Probably not but, if you spent more time in the EESystem over a period of months, I suspect there would be a permanent shift in brain patterns toward the normal

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