Attemplifier mod	ule	tests	MRD	2008jan30		
HP 8350B CW s	oui		d to 630 Mhz @ 2.6			
		DB pad> 6 d	B pad> long coa	x> -10.2 dBm in	to E4407B Spectru	ım Analyzer
Switch bit = 0: th	ne r	otch filter is NC	T in the signal path	า		
Input power leve	el l	-10.2	'dBm			
Programmed		Binary	Output power in	dBm		Primary
Attenuation		B1B6	630 Mhz	1260 Mhz	1890 Mhz	Gain in 'dB
31.5		111111	-33	-82.4	-96	-22.8
31.0		111110	-31.4	-82	-96	-21.2
30.5		111101	-30.9	-81.2	-96	-20.7
30.0		111100	-30.4	-80.4	-94.4	-20.2
29.5		111011	-30	-80.2	-93.9	-19.8
29.0		111010	-29.4	-79.8	-93.9	-19.2
28.5		111001	-28.9	-79.1	-93.9	-18.7
28.0		111000	-28.3	-78.9	-93.5	-18.1
27.5		110111	-28.3	-78.5	-93	-18.1
27.0		110110	-27.8	-78.2	-92.5	-17.6
26.5		110101	-27.2	-77.5	-92	-17
26.0		110100	-26.7	-77.2	-91.9	-16.5
25.5		110011	-26.3	-76.8	-91.7	-16.1
25.0		110010	-25.7	-76.4	-90.7	-15.5
24.5		110001	.25.2	-75.9	-90.4	10.2
24.0		110000	-24.7	-75.5	-90	-14.5
23.5		101111	-24.3	-75.2	-89.5	-14.1
23.0		101110	-23.7	-74.6	-89.2	-13.5
22.5		101101	-23.3	-74.1	-88.3	-13.1
22.0		101100	-22.8	-73.9	-88	-12.6
21.5		101011	-22.6	-73.3	-87.8	-12.4
21.0		101010	-21.9	-73	-86.8	-11.7
20.5		101001	-21.4	-72.4	-86	-11.2
20.0		101000	-20.8	-72	-86	-10.6
19.5		100111	-20.5	-71.7	-86	-10.3
19.0		100110	-20	-71.4	-85.7	-9.8
18.5		100101	-19.6	-71	-86	-9.4
18.0		100100	-19	-70.7	-85.4	-8.8
17.5		100011	-18.7	-70.3	-86	-8.5
17.0		100010	-18.1	-70	-84.5	-7.9
16.5		100001	-17.6	-69.8	-83.5	-7.4
16.0		100000	-17.1	-69.4	-82.3	-6.9

Input power level	-10.2	'dBm			
Programmed	Binary	Output power in	dBm		Primary
Attenuation	B1B6	630 Mhz	1260 Mhz	1890 Mhz	Gain in 'dB
Attenuation	D1D0	030 101112	1200 101112	1090 10112	Gairrin db
15.5	011111	-16.7	-69.6	-81.5	-6.5
15.0	011110	-16.1	-69.2	-80.9	-5.9
14.5	011101	-15.6	-68.8	-80.7	-5.4
14.0	011100	-15.1	-68.5	-80.2	-4.9
13.5	011011	-14.9	-68.1	-80.1	-4.7
13.0	011010	-14.2	-67.8	-79.3	-4
12.5	011001	-13.9	-67.5	-78.7	-3.7
12.0	011000	-13.2	-67.2	-77.8	-3
11.5	010111	-12.8	-67	-77.5	-2.6
11.0	010110	-12.2	-66.5	-77.3	-2
10.5	010101	-11.8	-66	-76.8	-1.6
10.0	010100	-11.3	-65.5	-76.3	-1.1
9.5	010011	-10.8	-64.9	-75.9	-0.6
9.0	010010	-10.3	-64	-75	-0.1
8.5	010001	-9.6	-63.3	-75	0.6
8.0	010000	-9.1	-62.4	-73.8	1.1
7.5	001111	-8.7	-61.9	-73	1.5
7.0	001110	-8.1	-60.8	-72.4	2.1
6.5	001101	-7.7	-59.7	-72.4	2.5
6.0	001100	-7.1	-58.5	-71.7	3.1
5.5	001011	-6.9	-57.8	-71.9	3.3
5.0	001010	-6.4	-56.5	-69.7	3.8
4.5	001001	-5.8	-55.2	-69.5	4.4
4.0	001000	-5.2	-53.8	-68.7	5
3.5	000111	-4.8	-52.9	-68	5.4
3.0	000110	-4.2	-51.5	-67.4	6
2.5	000101	-3.9	-50.3	-66.5	6.3
2.0	000100	-3.3	-48.9	-65.8	6.9
1.5	000011	-3	-48.1	-65.3	7.2
1.0	000010	-2.4	-46.8	-64.1	7.8
0.5	000001	-2	-45.6	-63.6	8.2
0.0	000000	-1.5	-44.2	-61.7	8.7

Attemplifier mo	dule	e tests		MRD	2008jan30			
i iii iii iii iii iii iii iii iii iii				2				
HP 8350B CW	SOU	rce programmed	to 6	30 Mhz @ 2.60	1B>			
					> -10.2 dBm into	E4407B Spectrur	m Analvzer	
		раа	p e					
Programmed		Binary						
Attenuation		B1B6						
21.0		101010						
Input power level		-10.2 'dBm		Note this may vary vs frequency because				
					The CW source	ed at each		
					Output frequen			
Only 530 – 730	) Mh	z is active when	inpu	it is supplied by	Jack's 200 Mhz w	ide BPF centered	at 630 Mhz	
Frequency		Output power lev	∕el i	n 'dBm	Loss in 'dB	Net	Net	
In 'Mhz		Switch =0		Switch = 1	Due to	Gain in 'dB	Gain in 'dB	
		No notch filter		Notch filter	Notch filter	No notch filter	Notch filter	
50		-35		-35.4	0.4	-24.8	-25.2	
100		-28		-28.2	0.2	-17.8	-18	
150		-25		-25.4	0.4	-14.8	-15.2	
200		-23.7		-23.9	0.2	-13.5	-13.7	
250		-23		-23.4	0.4	-12.8	-13.2	
300		-22.3		-22.7	0.4	-12.1	-12.5	
350		-22.2		-22.4	0.2	-12	-12.2	
400		-21.8		-22.1	0.3	-11.6	-11.9	
450		-21.6		-21.8	0.2	-11.4	-11.6	
500		-21.4		-21.7	0.3	-11.2	-11.5	
540		-21.4		-22	0.6	-11.2	-11.8	
550		-21.7		-21.9	0.2	-11.5	-11.7	
570		-21.6		-22.2	0.6	-11.4	-12	
600		-21.6		-22.8	1.2	-11.4	-12.6	
630		-21.7		-39.7	18	-11.5	-29.5	
650		-21.8		-23.6	1.8	-11.6	-13.4	
660		-21.8		-22.6	0.8	-11.6	-12.4	
690 700		-22 -22		-22.2 -22.2	0.2	-11.8 -11.8	-12 -12	
700		-22 -22		-22.2	0.2	-11.8	-12.1	
750		-22.1		-22.3	0.3	-11.9	-12.1	
800		-22.1		-22.4	0.3	-11.9	-12.2	
850		-22.5		-22.4	0.2	-12.3	-12.5	
900		-22.4		-22.7	0.3	-12.3	-12.5	
950		-22.4		-22.7	0.3	-12.4	-12.5	
930		-22.0		-22.0	0.2	-12.4	-12.0	

el in 'dBm Switch = 1 Notch filter  -23.2 -23.2 -23.4 -23.4 -23.6 -23.6 -23.9 -23.9 -24	Due to Notch filter  0.5 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.1 0.4	Net Gain in 'dB No notch filter  -12.5 -12.6 -12.8 -13.1 -13.1 -13.4 -13.6 -13.4	Net Gain in 'dB Notch filter  -13 -13 -13.2 -13.2 -13.4 -13.7 -13.7
Switch = 1 Notch filter  -23.2 -23.2 -23.4 -23.4 -23.6 -23.6 -23.9 -23.9 -24	Due to Notch filter  0.5 0.4 0.4 0.4 0.4 0.3 0.3 0.3	Gain in 'dB No notch filter  -12.5 -12.6 -12.8 -12.8 -13 -13.1 -13.4 -13.6	-13 -13 -13.2 -13.4 -13.7 -13.7
Switch = 1 Notch filter  -23.2 -23.2 -23.4 -23.4 -23.6 -23.6 -23.9 -23.9 -24	0.5 0.4 0.4 0.4 0.4 0.3 0.3 0.3	-12.5 -12.6 -12.8 -12.8 -13 -13.1 -13.4 -13.6	-13 -13 -13.2 -13.2 -13.4 -13.4 -13.7 -13.7
-23.2 -23.2 -23.4 -23.4 -23.6 -23.6 -23.9 -23.9 -24	0.5 0.4 0.4 0.4 0.4 0.3 0.3 0.3	-12.5 -12.6 -12.8 -12.8 -13 -13.1 -13.4 -13.6	-13 -13 -13.2 -13.2 -13.4 -13.4 -13.7 -13.7
-23.2 -23.4 -23.4 -23.6 -23.6 -23.9 -23.9 -24	0.4 0.4 0.4 0.4 0.3 0.3 0.1	-12.6 -12.8 -12.8 -13 -13.1 -13.4 -13.6	-13 -13.2 -13.2 -13.4 -13.4 -13.7 -13.7
-23.2 -23.4 -23.4 -23.6 -23.6 -23.9 -23.9 -24	0.4 0.4 0.4 0.4 0.3 0.3 0.1	-12.6 -12.8 -12.8 -13 -13.1 -13.4 -13.6	-13 -13.2 -13.2 -13.4 -13.4 -13.7 -13.7
-23.4 -23.4 -23.6 -23.6 -23.9 -23.9 -24	0.4 0.4 0.4 0.3 0.3 0.1	-12.8 -12.8 -13 -13.1 -13.4 -13.6	-13.2 -13.2 -13.4 -13.4 -13.7 -13.7
-23.4 -23.6 -23.6 -23.9 -23.9 -24	0.4 0.4 0.3 0.3 0.1	-12.8 -13 -13.1 -13.4 -13.6	-13.2 -13.4 -13.4 -13.7 -13.7
-23.6 -23.6 -23.9 -23.9 -24	0.4 0.3 0.3 0.1	-13 -13.1 -13.4 -13.6	-13.4 -13.4 -13.7 -13.7
-23.6 -23.9 -23.9 -24	0.3 0.3 0.1	-13.1 -13.4 -13.6	-13.4 -13.7 -13.7
-23.9 -23.9 -24	0.3 0.1	-13.4 -13.6	-13.7 -13.7
-23.9 -24	0.1	-13.6	-13.7
-24			
	J 0. <del>T</del>	-134	-13.8
-24.2	0.4	-13.6	-14
-24.5	0.5	-13.8	-14.3
-24.6	0.5	-13.9	-14.4
-24.8	0.5	-14.1	-14.6
-25	0.3	-14.5	-14.8
-25.2	0.3	-14.7	-15
			-15.4
			-15.6
			-15.8
			-16.1
	0.7		-16.5
-28	2	-15.8	-17.8
-27.9	1.9	-15.8	-17.7
	0.4	-15.8	-16.2
		-25.8 0.4 -26 0.5 -26.3 0.5 -26.7 0.7 -28 2 -27.9 1.9	-25.8     0.4     -15.2       -26     0.5     -15.3       -26.3     0.5     -15.6       -26.7     0.7     -15.8       -28     2     -15.8       -27.9     1.9     -15.8