Appendix

1.1 Appendix FCC data for Low Power(1~25W).

1. RF Output Power

Modulation Type	Channel Separation	Frequency (MHz)	Power Level	RF Output Power(dBm)	RF Output Power(W)	Remark
Analog FM	12.5KHz/ 25KHz	400.025	Max	43.89	24.49	For Federal
			Low	29.66	0.92	
		450.025	Max	43.85	24.27	For Part74
			Low	29.86	0.97	
		459.125	Max	43.91	24.60	For Part22
			Low	29.88	0.97	
		469.975	Max	43.92	24.66	For Part90 & Part80
			Low	29.78	0.95	
Digital 4FSK	12.5KHz	400.025	Max	43.94	24.77	For Federal
			Low	29.84	0.96	
		450.025	Max	43.86	24.32	For Part74
			Low	30.00	1.00	
		459.125	Max	43.98	25.00	For Part22
			Low	29.98	1.00	
		469.975	Max	43.96	24.89	For Part90 & Part80
			Low	29.97	0.99	

Note: The max rated power is 25W(44dBm), the low rated power is 1W(30dBm).

2.Frequency Stability

12.5KHz/25KHz, Analog modulation, Assigned Frequency:400.025MHz					
Voltage(V)	Temperature (℃)	Measured Frequency(MHz)	Frequency Deviation(ppm)	FCC Limit (ppm)	Result
13.6	-30	400.025116	0.29	±2.5	Pass
	-20	400.025126	0.31		
	-10	400.025154	0.38		
	0	400.025145	0.36		
	10	400.025108	0.27		
	20	400.025121	0.30		
	30	400.025124	0.31		
	40	400.025154	0.38		
	50	400.025145	0.36		
11.6	25	400.025228	0.57		
15.6	25	400.025239	0.60		

12.5KHz, Digital modulation, Assigned Frequency:400.025MHz					
Voltage(V)	Temperature (℃)	Measured Frequency(MHz)	Frequency Deviation(ppm)	FCC Limit (ppm)	Result
13.6	-30	400.025114	0.28	±2.5	Pass
	-20	400.025118	0.29		
	-10	400.025148	0.37		
	0	400.025123	0.31		
	10	400.025098	0.24		
	20	400.025114	0.28		
	30	400.025124	0.31		
	40	400.025134	0.33		
	50	400.025138	0.34		
11.6	25	400.025217	0.54		
15.6	25	400.025208	0.52		

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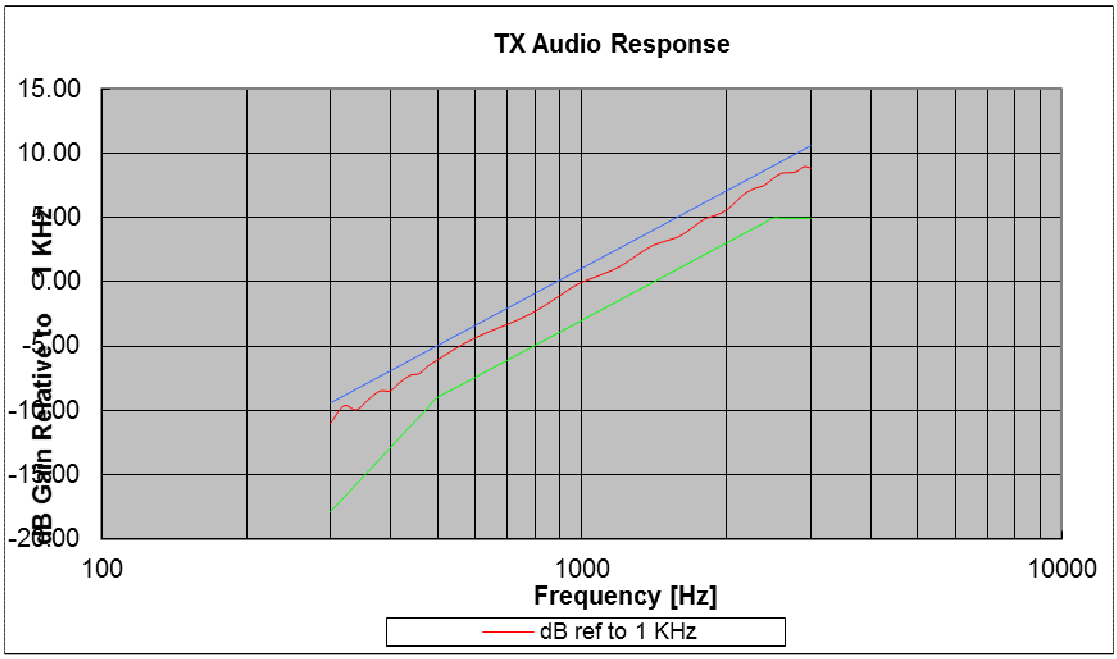
3.Audio Frequency Response

12.5KHz, Analog modulation, Assigned Frequency:400.025MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-10.98
400	-8.43
500	-6.06
600	-4.33
700	-3.28
800	-2.27
900	-1.05
1000	0
1200	1.22
1400	2.83
1600	3.59
1800	4.91
2000	5.6
2100	6.32
2200	6.98
2300	7.32
2400	7.56
2500	8.07
2600	8.47
2700	8.52
2800	8.6
2900	8.99
3000	8.87



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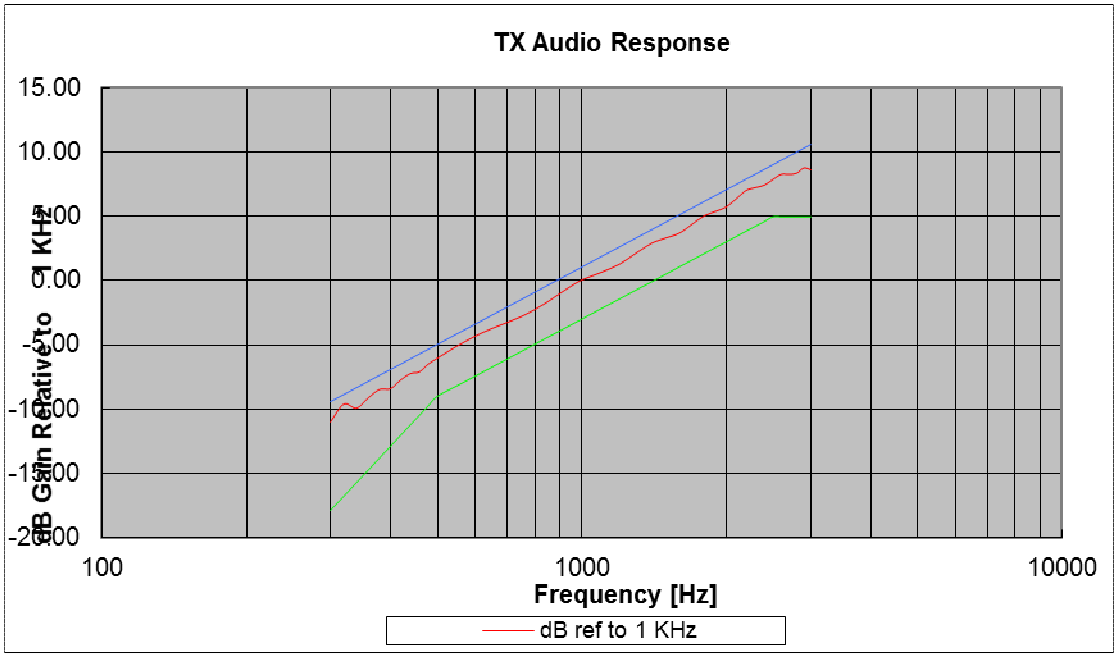
12.5KHz, Analog modulation, Assigned Frequency:450.025MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-11.06
400	-8.46
500	-6.1
600	-4.38
700	-3.31
800	-2.3
900	-1.07
1000	-0.01
1200	1.23
1400	2.86
1600	3.65
1800	4.99
2000	5.68
2100	6.32
2200	6.96
2300	7.18
2400	7.37
2500	7.81
2600	8.2
2700	8.21
2800	8.29
2900	8.7
3000	8.55



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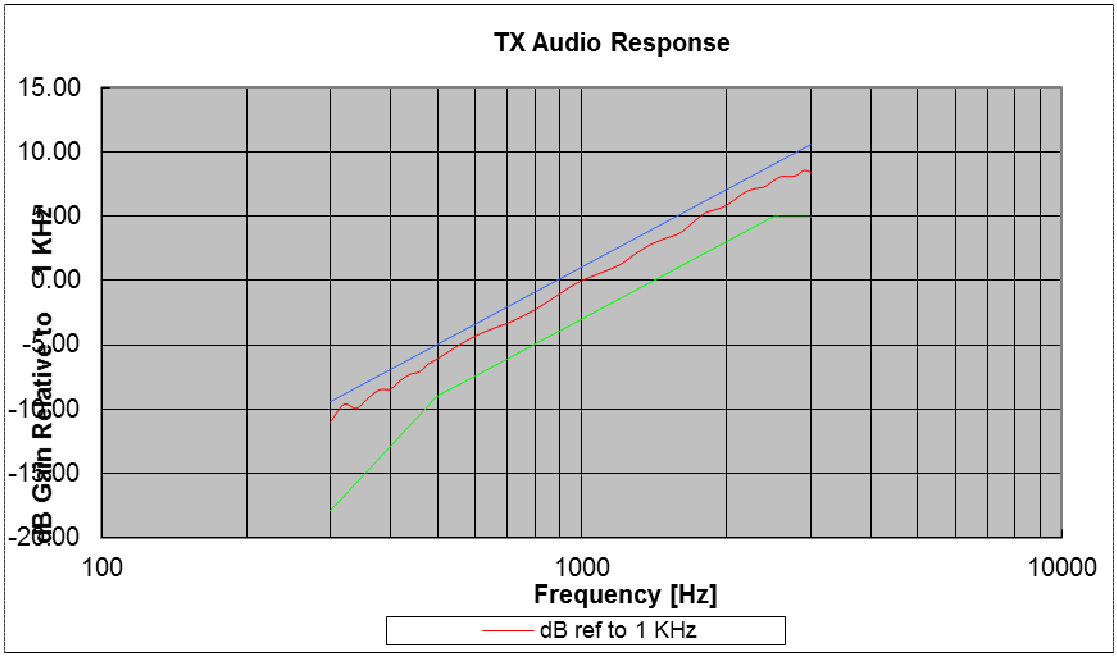
12.5KHz, Analog modulation, Assigned Frequency:459.125MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-11.02
400	-8.45
500	-6.1
600	-4.32
700	-3.32
800	-2.26
900	-1.03
1000	0
1200	1.24
1400	2.88
1600	3.71
1800	5.24
2000	5.86
2100	6.44
2200	6.95
2300	7.19
2400	7.32
2500	7.77
2600	8.12
2700	8.12
2800	8.2
2900	8.59
3000	8.45



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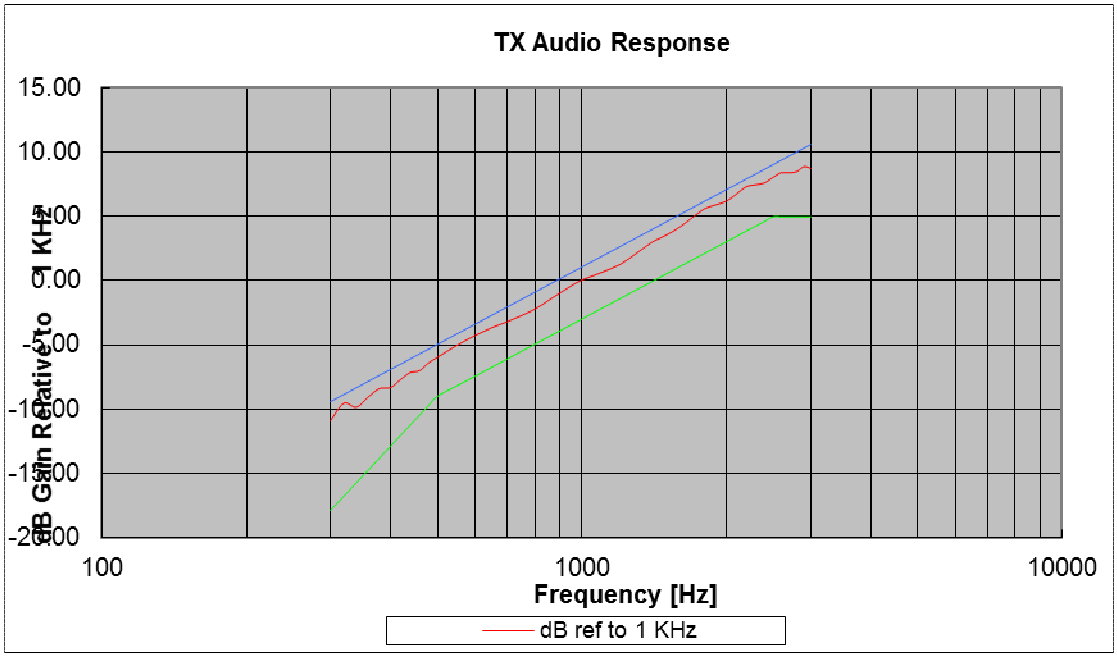
12.5KHz, Analog modulation, Assigned Frequency:469.975MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-10.93
400	-8.35
500	-6.01
600	-4.3
700	-3.23
800	-2.24
900	-1.01
1000	0
1200	1.2
1400	2.94
1600	4.12
1800	5.53
2000	6.13
2100	6.69
2200	7.25
2300	7.41
2400	7.55
2500	7.97
2600	8.33
2700	8.34
2800	8.42
2900	8.81
3000	8.67



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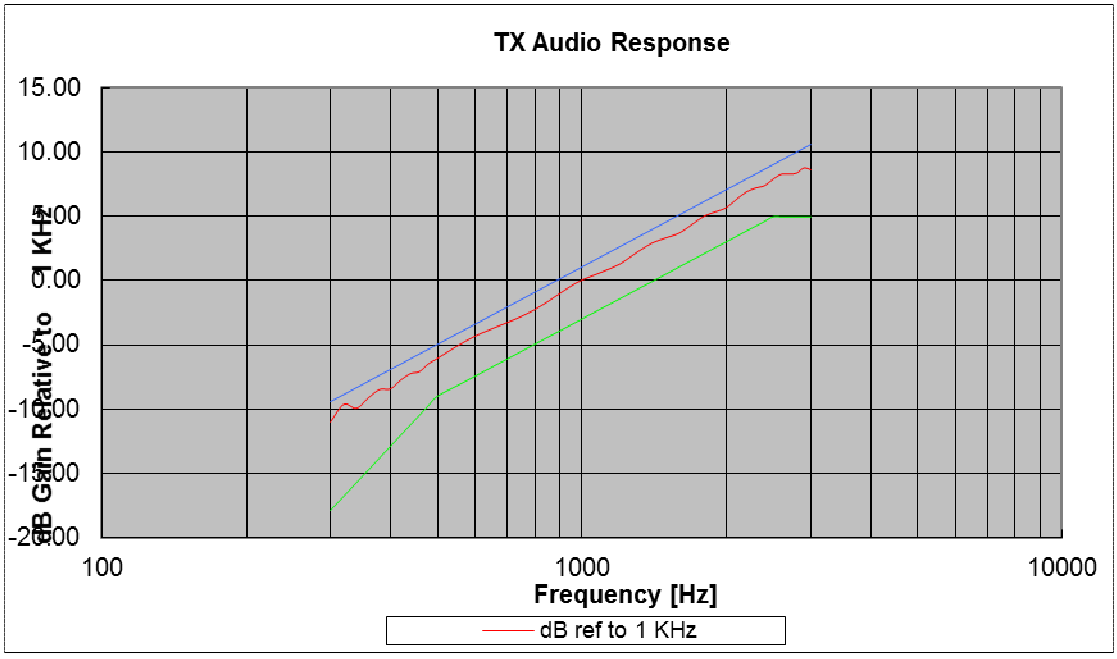
25KHz, Analog modulation, Assigned Frequency:400.025MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-11.05
400	-8.46
500	-6.1
600	-4.35
700	-3.29
800	-2.27
900	-1.03
1000	0.01
1200	1.26
1400	2.9
1600	3.7
1800	5.01
2000	5.67
2100	6.31
2200	6.88
2300	7.19
2400	7.37
2500	7.87
2600	8.26
2700	8.27
2800	8.35
2900	8.75
3000	8.61



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25KHz, Analog modulation, Assigned Frequency:450.025MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-11.06
400	-8.46
500	-6.09
600	-4.37
700	-3.3
800	-2.28
900	-1.04
1000	0.01
1200	1.26
1400	2.91
1600	3.72
1800	5.02
2000	5.68
2100	6.38
2200	6.95
2300	7.17
2400	7.4
2500	7.82
2600	8.2
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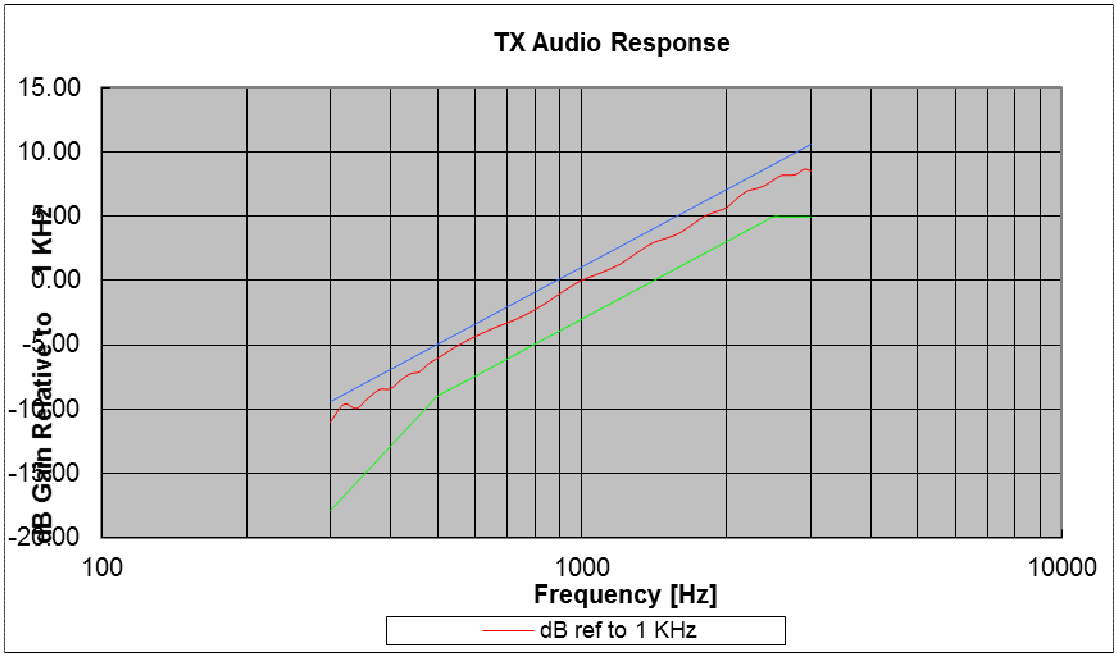
2800	8.3
2900	8.69
3000	8.57



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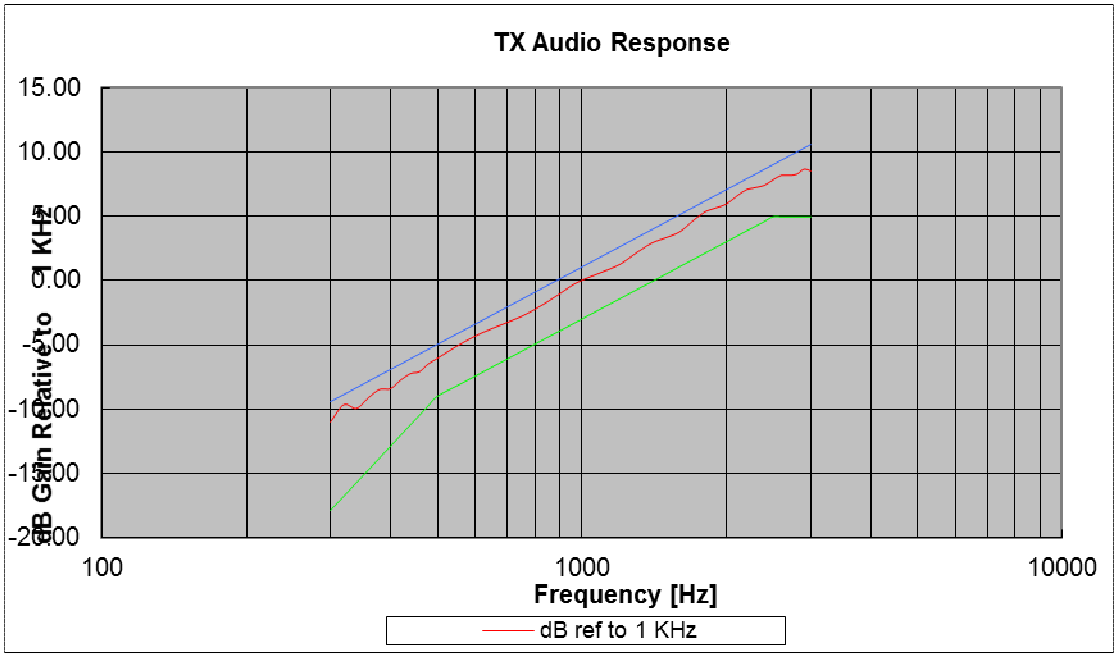
25KHz, Analog modulation, Assigned Frequency:459.125MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-11.02
400	-8.42
500	-6.07
600	-4.33
700	-3.27
800	-2.25
900	-1.04
1000	0
1200	1.24
1400	2.91
1600	3.78
1800	5.3
2000	5.94
2100	6.54
2200	7.04
2300	7.22
2400	7.39
2500	7.81
2600	8.16
2700	8.17
2800	8.25
2900	8.64
3000	8.5



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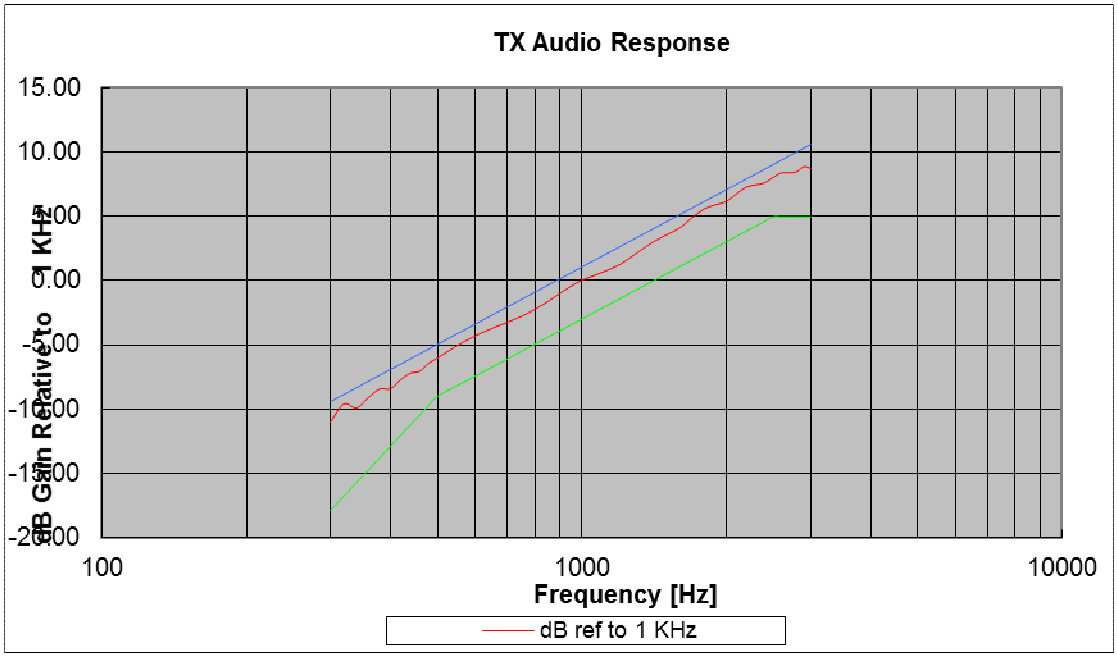
25KHz, Analog modulation, Assigned Frequency:469.975MHz	
Audio Frequency(Hz)	Response Attenuation(dB)
300	-10.98
400	-8.39
500	-6.02
600	-4.29
700	-3.24
800	-2.23
900	-1.01
1000	0.02
1200	1.23
1400	2.94
1600	4.08
1800	5.56
2000	6.14
2100	6.73
2200	7.24
2300	7.42
2400	7.57
2500	7.98
2600	8.35
2700	8.36
2800	8.43
2900	8.83
3000	8.68



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4.Audio Low Pass Filter Response

12.5KHz/25KHz, Analog modulation, Assigned Frequency: 400.025MHz		
Audio Frequency(KHz)	ResponseAttenuation(dB)	Limit (dB)
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	N/A	N/A
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
12	N/A	N/A
14	N/A	N/A
16	N/A	N/A
18	N/A	N/A
20	N/A	N/A

12.5KHz/25KHz, Analog modulation, Assigned Frequency: 450.025MHz		
Audio Frequency(KHz)	ResponseAttenuation(dB)	Limit (dB)
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	N/A	N/A
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
12	N/A	N/A
14	N/A	N/A
16	N/A	N/A
18	N/A	N/A
20	N/A	N/A

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12.5KHz/25KHz, Analog modulation, Assigned Frequency:459.125MHz		
Audio Frequency(KHz)	ResponseAttenuation(dB)	Limit (dB)
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	N/A	N/A
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
12	N/A	N/A
14	N/A	N/A
16	N/A	N/A
18	N/A	N/A
20	N/A	N/A

12.5KHz/25KHz, Analog modulation, Assigned Frequency: 469.975MHz		
Audio Frequency(KHz)	ResponseAttenuation(dB)	Limit (dB)
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	N/A	N/A
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
12	N/A	N/A
14	N/A	N/A
16	N/A	N/A
18	N/A	N/A
20	N/A	N/A

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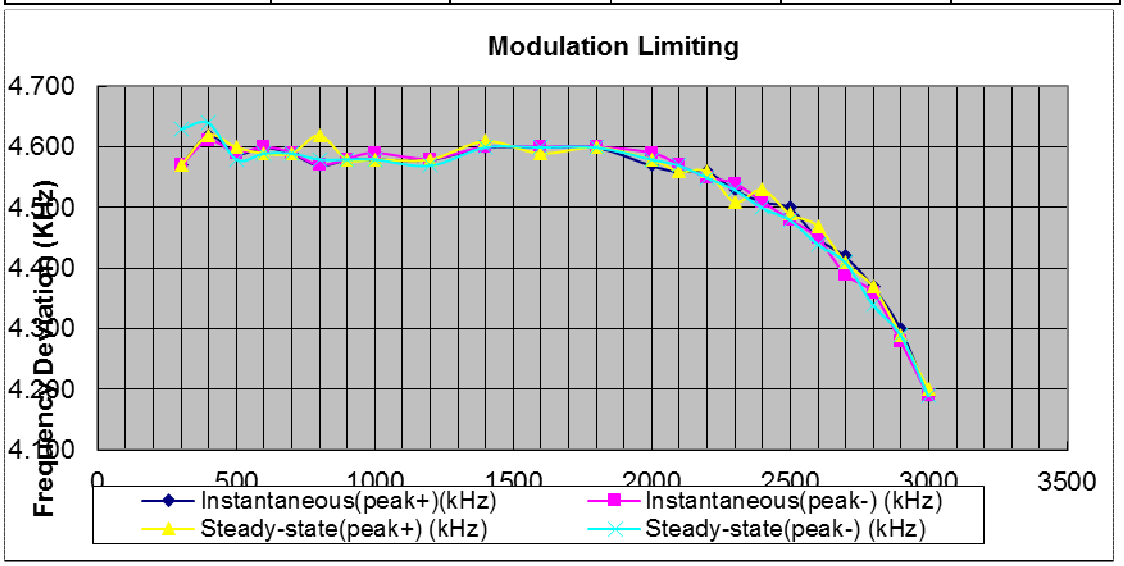
5.Modulation Limiting

25KHz, Analog modulation, Assigned Frequency:400.025MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	4.570	4.570	4.570	4.630	5.0
400	4.620	4.610	4.620	4.640	5.0
500	4.590	4.590	4.600	4.580	5.0
600	4.600	4.600	4.590	4.590	5.0
700	4.590	4.590	4.590	4.590	5.0
800	4.570	4.570	4.620	4.580	5.0
900	4.580	4.580	4.580	4.580	5.0
1000	4.580	4.590	4.580	4.580	5.0
1200	4.580	4.580	4.580	4.570	5.0
1400	4.600	4.600	4.610	4.600	5.0
1600	4.600	4.600	4.590	4.600	5.0
1800	4.600	4.600	4.600	4.600	5.0
2000	4.570	4.590	4.580	4.580	5.0
2100	4.560	4.570	4.560	4.570	5.0
2200	4.560	4.550	4.560	4.550	5.0
2300	4.530	4.540	4.510	4.530	5.0
2400	4.510	4.510	4.530	4.500	5.0
2500	4.500	4.480	4.490	4.480	5.0
2600	4.450	4.450	4.470	4.440	5.0
2700	4.420	4.390	4.410	4.410	5.0
2800	4.370	4.360	4.370	4.340	5.0
2900	4.300	4.280	4.290	4.290	5.0
3000	4.190	4.190	4.200	4.190	5.0



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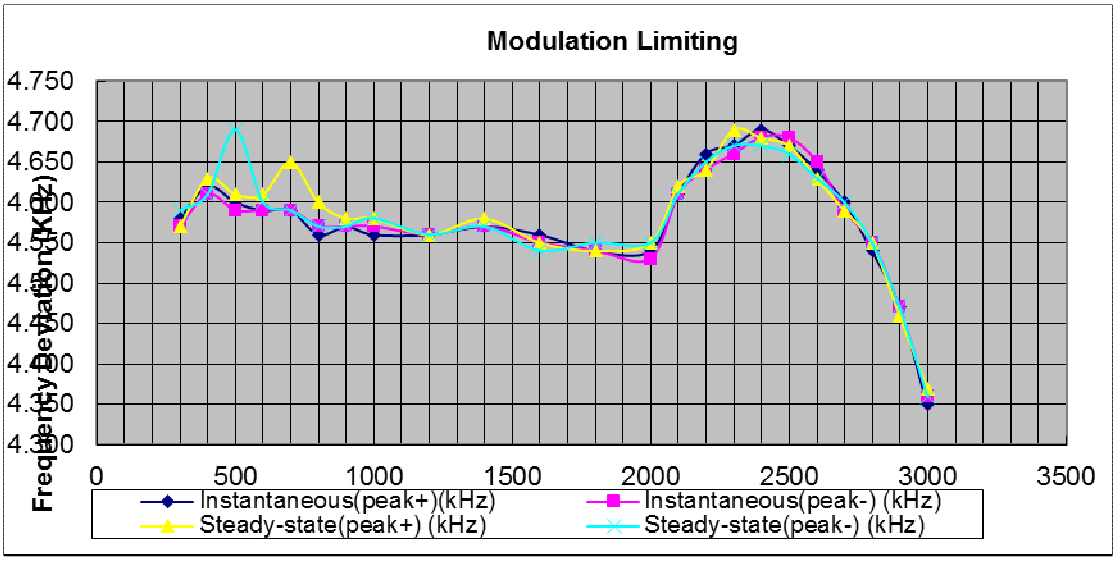
25KHz, Analog modulation, Assigned Frequency:450.025MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	4.580	4.570	4.570	4.590	5.0
400	4.620	4.610	4.630	4.610	5.0
500	4.600	4.590	4.610	4.690	5.0
600	4.590	4.590	4.610	4.600	5.0
700	4.590	4.590	4.650	4.590	5.0
800	4.560	4.570	4.600	4.570	5.0
900	4.570	4.570	4.580	4.570	5.0
1000	4.560	4.570	4.580	4.580	5.0
1200	4.560	4.560	4.560	4.560	5.0
1400	4.570	4.570	4.580	4.570	5.0
1600	4.560	4.550	4.550	4.540	5.0
1800	4.540	4.540	4.540	4.550	5.0
2000	4.540	4.530	4.550	4.550	5.0
2100	4.610	4.610	4.620	4.610	5.0
2200	4.660	4.640	4.640	4.650	5.0
2300	4.670	4.660	4.690	4.670	5.0
2400	4.690	4.680	4.680	4.670	5.0
2500	4.670	4.680	4.670	4.660	5.0
2600	4.640	4.650	4.630	4.630	5.0
2700	4.600	4.590	4.590	4.600	5.0
2800	4.540	4.550	4.550	4.550	5.0
2900	4.470	4.470	4.460	4.470	5.0
3000	4.350	4.360	4.370	4.360	5.0



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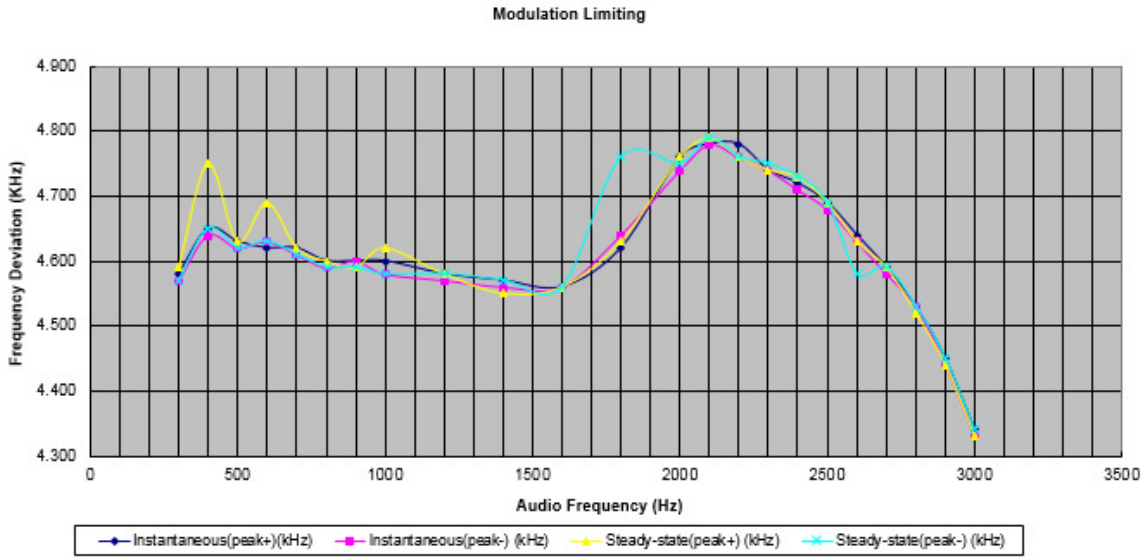
25KHz, Analog modulation, Assigned Frequency:459.125MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	4.560	4.550	4.570	4.560	5.0
400	4.620	4.610	4.630	4.620	5.0
500	4.590	4.590	4.600	4.580	5.0
600	4.600	4.580	4.670	4.570	5.0
700	4.590	4.570	4.590	4.580	5.0
800	4.570	4.550	4.570	4.560	5.0
900	4.560	4.560	4.560	4.560	5.0
1000	4.570	4.560	4.570	4.560	5.0
1200	4.560	4.550	4.560	4.590	5.0
1400	4.550	4.550	4.540	4.540	5.0
1600	4.550	4.540	4.560	4.570	5.0
1800	4.590	4.570	4.620	4.600	5.0
2000	4.650	4.640	4.650	4.640	5.0
2100	4.650	4.660	4.670	4.660	5.0
2200	4.660	4.630	4.650	4.610	5.0
2300	4.620	4.610	4.610	4.600	5.0
2400	4.600	4.600	4.610	4.600	5.0
2500	4.580	4.570	4.580	4.580	5.0
2600	4.530	4.530	4.540	4.530	5.0
2700	4.500	4.480	4.500	4.460	5.0
2800	4.430	4.420	4.430	4.430	5.0
2900	4.350	4.340	4.350	4.340	5.0
3000	4.250	4.240	4.250	4.120	5.0



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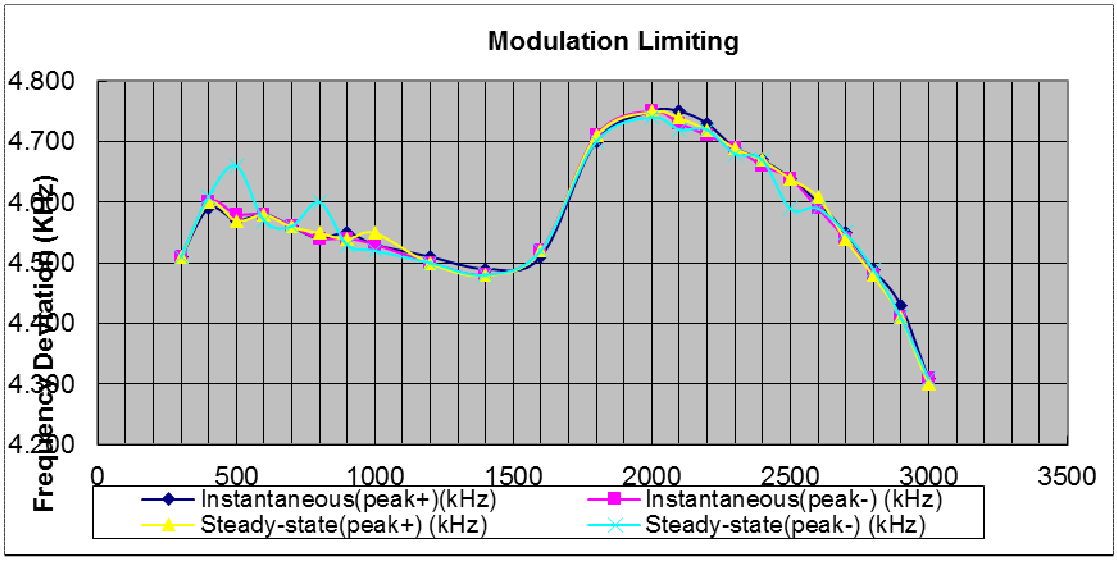
25KHz, Analog modulation, Assigned Frequency:469.975MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	4.510	4.510	4.510	4.510	5.0
400	4.590	4.600	4.600	4.610	5.0
500	4.570	4.580	4.570	4.660	5.0
600	4.580	4.580	4.580	4.570	5.0
700	4.560	4.560	4.560	4.560	5.0
800	4.540	4.540	4.550	4.600	5.0
900	4.550	4.540	4.540	4.530	5.0
1000	4.530	4.530	4.550	4.520	5.0
1200	4.510	4.500	4.500	4.500	5.0
1400	4.490	4.480	4.480	4.480	5.0
1600	4.510	4.520	4.520	4.520	5.0
1800	4.700	4.710	4.710	4.700	5.0
2000	4.750	4.750	4.750	4.740	5.0
2100	4.750	4.730	4.740	4.720	5.0
2200	4.730	4.710	4.720	4.720	5.0
2300	4.690	4.690	4.690	4.680	5.0
2400	4.670	4.660	4.670	4.670	5.0
2500	4.640	4.640	4.640	4.590	5.0
2600	4.600	4.590	4.610	4.590	5.0
2700	4.550	4.540	4.540	4.550	5.0
2800	4.490	4.480	4.480	4.490	5.0
2900	4.430	4.410	4.410	4.410	5.0
3000	4.310	4.310	4.300	4.310	5.0



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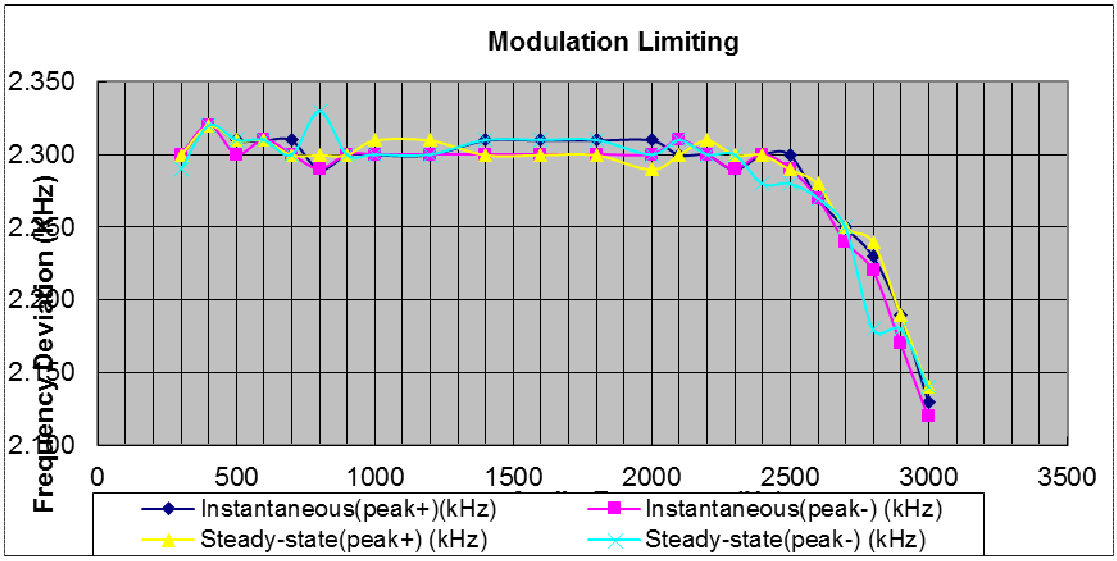
12.5KHz, Analog modulation, Assigned Frequency:400.025MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	2.300	2.300	2.300	2.290	2.5
400	2.320	2.320	2.320	2.320	2.5
500	2.310	2.300	2.310	2.310	2.5
600	2.310	2.310	2.310	2.310	2.5
700	2.310	2.300	2.300	2.300	2.5
800	2.290	2.290	2.300	2.330	2.5
900	2.300	2.300	2.300	2.300	2.5
1000	2.300	2.300	2.310	2.300	2.5
1200	2.300	2.300	2.310	2.300	2.5
1400	2.310	2.300	2.300	2.310	2.5
1600	2.310	2.300	2.300	2.310	2.5
1800	2.310	2.300	2.300	2.310	2.5
2000	2.310	2.300	2.290	2.300	2.5
2100	2.300	2.310	2.300	2.310	2.5
2200	2.300	2.300	2.310	2.300	2.5
2300	2.290	2.290	2.300	2.300	2.5
2400	2.300	2.300	2.300	2.280	2.5
2500	2.300	2.290	2.290	2.280	2.5
2600	2.270	2.270	2.280	2.270	2.5
2700	2.250	2.240	2.250	2.250	2.5
2800	2.230	2.220	2.240	2.180	2.5
2900	2.190	2.170	2.190	2.180	2.5
3000	2.130	2.120	2.140	2.140	2.5



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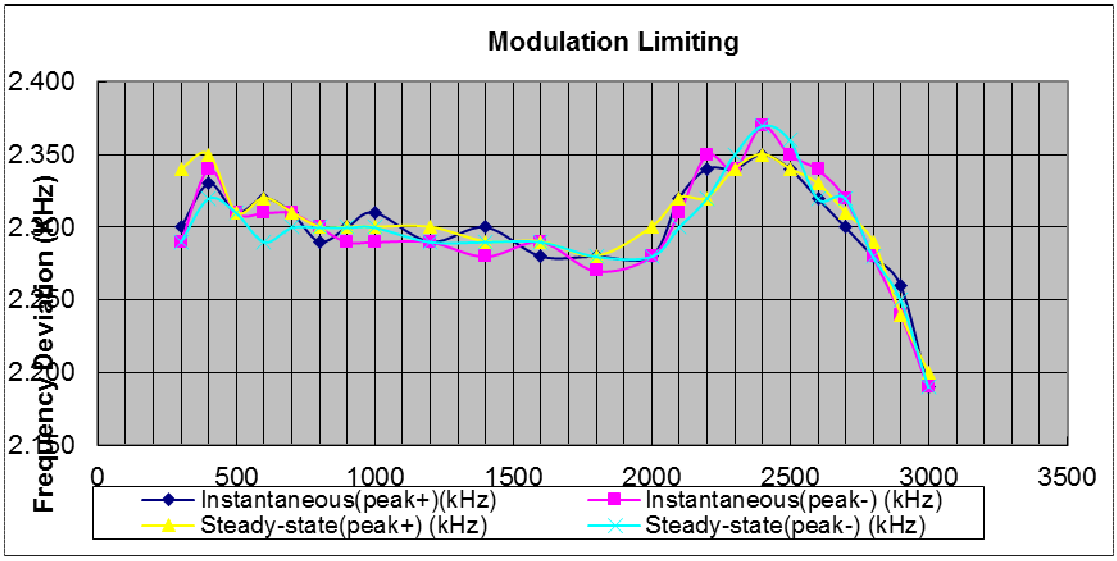
12.5KHz, Analog modulation, Assigned Frequency:450.025MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	2.300	2.290	2.340	2.290	2.5
400	2.330	2.340	2.350	2.320	2.5
500	2.310	2.310	2.310	2.310	2.5
600	2.320	2.310	2.320	2.290	2.5
700	2.310	2.310	2.310	2.300	2.5
800	2.290	2.300	2.300	2.300	2.5
900	2.300	2.290	2.300	2.300	2.5
1000	2.310	2.290	2.300	2.300	2.5
1200	2.290	2.290	2.300	2.290	2.5
1400	2.300	2.280	2.290	2.290	2.5
1600	2.280	2.290	2.290	2.290	2.5
1800	2.280	2.270	2.280	2.280	2.5
2000	2.280	2.280	2.300	2.280	2.5
2100	2.320	2.310	2.320	2.300	2.5
2200	2.340	2.350	2.320	2.320	2.5
2300	2.340	2.340	2.340	2.350	2.5
2400	2.350	2.370	2.350	2.370	2.5
2500	2.340	2.350	2.340	2.360	2.5
2600	2.320	2.340	2.330	2.320	2.5
2700	2.300	2.320	2.310	2.320	2.5
2800	2.280	2.280	2.290	2.280	2.5
2900	2.260	2.240	2.240	2.250	2.5
3000	2.190	2.190	2.200	2.190	2.5



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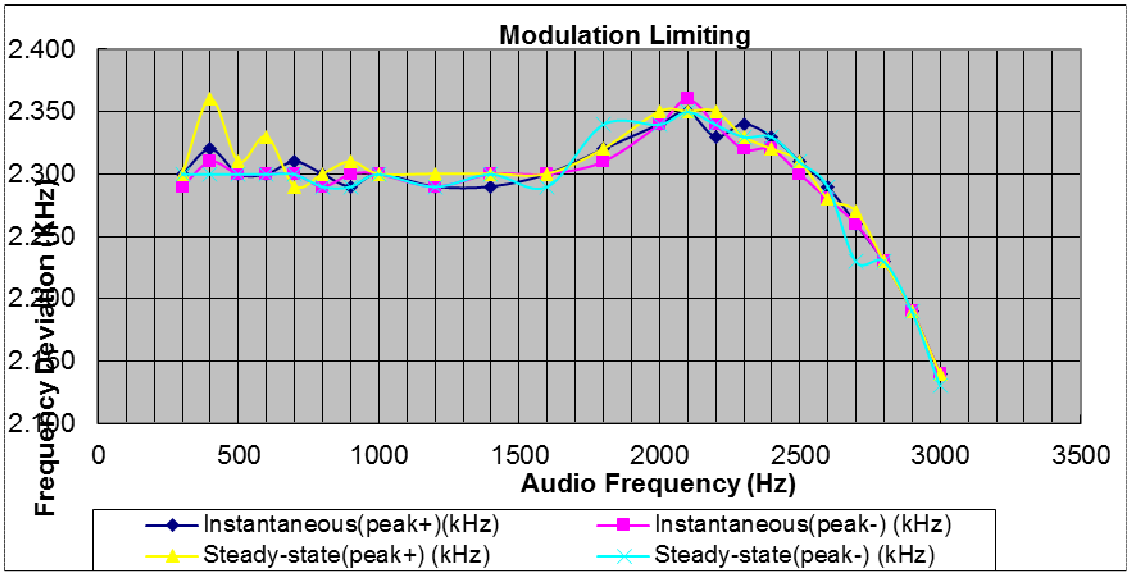
12.5KHz, Analog modulation, Assigned Frequency:459.125MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	2.300	2.290	2.300	2.300	2.5
400	2.320	2.310	2.360	2.300	2.5
500	2.300	2.300	2.310	2.300	2.5
600	2.300	2.300	2.330	2.300	2.5
700	2.310	2.300	2.290	2.300	2.5
800	2.300	2.290	2.300	2.290	2.5
900	2.290	2.300	2.310	2.290	2.5
1000	2.300	2.300	2.300	2.300	2.5
1200	2.290	2.290	2.300	2.290	2.5
1400	2.290	2.300	2.300	2.300	2.5
1600	2.300	2.300	2.300	2.290	2.5
1800	2.320	2.310	2.320	2.340	2.5
2000	2.340	2.340	2.350	2.340	2.5
2100	2.350	2.360	2.350	2.350	2.5
2200	2.330	2.340	2.350	2.340	2.5
2300	2.340	2.320	2.330	2.330	2.5
2400	2.330	2.320	2.320	2.330	2.5
2500	2.310	2.300	2.310	2.310	2.5
2600	2.290	2.280	2.280	2.290	2.5
2700	2.260	2.260	2.270	2.230	2.5
2800	2.230	2.230	2.230	2.230	2.5
2900	2.190	2.190	2.190	2.190	2.5
3000	2.140	2.140	2.140	2.130	2.5



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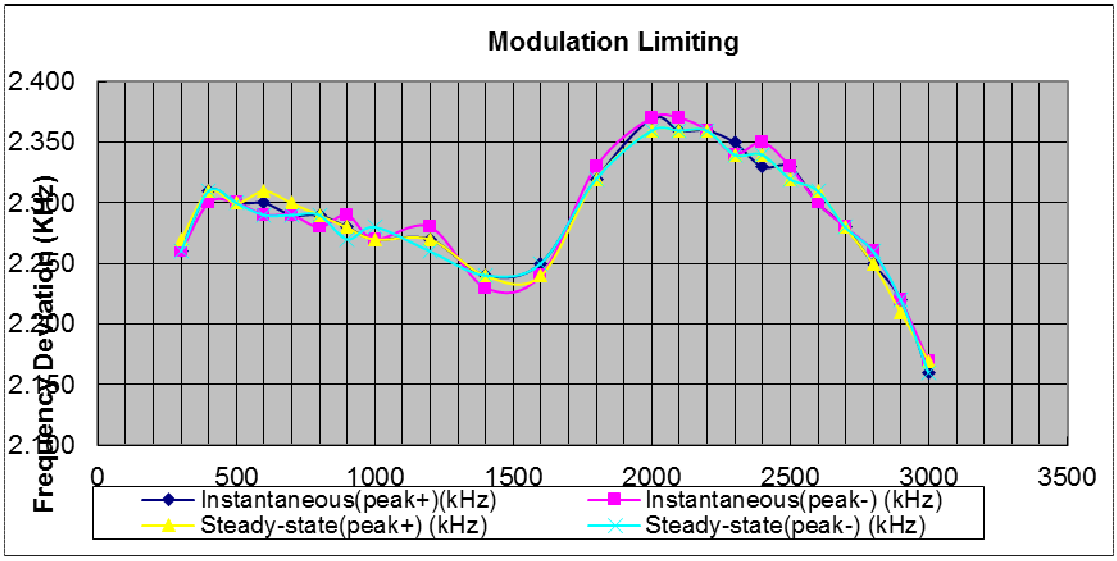
12.5KHz, Analog modulation, Assigned Frequency:469.975MHz					
Audio Frequency(Hz)	Instantaneous		Steady-state		Limit (KHz)
	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	Deviation (peak positive) (KHz)	Deviation (peak negative) (KHz)	
300	2.260	2.260	2.270	2.260	2.5
400	2.310	2.300	2.310	2.310	2.5
500	2.300	2.300	2.300	2.300	2.5
600	2.300	2.290	2.310	2.290	2.5
700	2.290	2.290	2.300	2.290	2.5
800	2.290	2.280	2.290	2.290	2.5
900	2.280	2.290	2.280	2.270	2.5
1000	2.270	2.270	2.270	2.280	2.5
1200	2.270	2.280	2.270	2.260	2.5
1400	2.240	2.230	2.240	2.240	2.5
1600	2.250	2.240	2.240	2.250	2.5
1800	2.320	2.330	2.320	2.320	2.5
2000	2.370	2.370	2.360	2.360	2.5
2100	2.360	2.370	2.360	2.360	2.5
2200	2.360	2.360	2.360	2.360	2.5
2300	2.350	2.340	2.340	2.340	2.5
2400	2.330	2.350	2.340	2.340	2.5
2500	2.330	2.330	2.320	2.320	2.5
2600	2.300	2.300	2.310	2.310	2.5
2700	2.280	2.280	2.280	2.280	2.5
2800	2.250	2.260	2.250	2.260	2.5
2900	2.220	2.220	2.210	2.220	2.5
3000	2.160	2.170	2.170	2.160	2.5



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6.Occupied Bandwidth

Modulation Type	Channel Separation	Frequency (MHz)	Power Level	99% Occupied Bandwidth (kHz)	26dB Emissions Bandwidth (kHz)	Remark
Analog FM	25KHz	400.025	Max	14.938	19.938	For Federal
			Low	14.938	19.938	
		450.025	Max	15.063	19.938	For Part74
			Low	15.125	19.938	
		459.125	Max	15.000	20.000	For Part22
			Low	15.063	20.000	
		469.975	Max	15.000	15.626	For Part90 & Part80
			Low	15.000	20.000	
	12.5KHz	400.025	Max	9.875	10.500	For Federal
			Low	9.938	10.563	
		450.025	Max	10.063	10.563	For Part74
			Low	10.063	10.563	
		459.125	Max	9.938	10.563	For Part22
			Low	9.938	10.563	
		469.975	Max	9.938	10.563	For Part90 & Part80
			Low	10.000	10.563	
Digital 4FSK	12.5KHz	400.025	Max	7.313	10.070	For Federal
			Low	7.531	9.563	
		450.025	Max	7.625	9.781	For Part74
			Low	7.656	9.907	
		459.125	Max	7.594	9.750	For Part22
			Low	7.594	9.875	
		469.975	Max	7.594	9.626	For Part90 & Part80
			Low	7.219	9.313	

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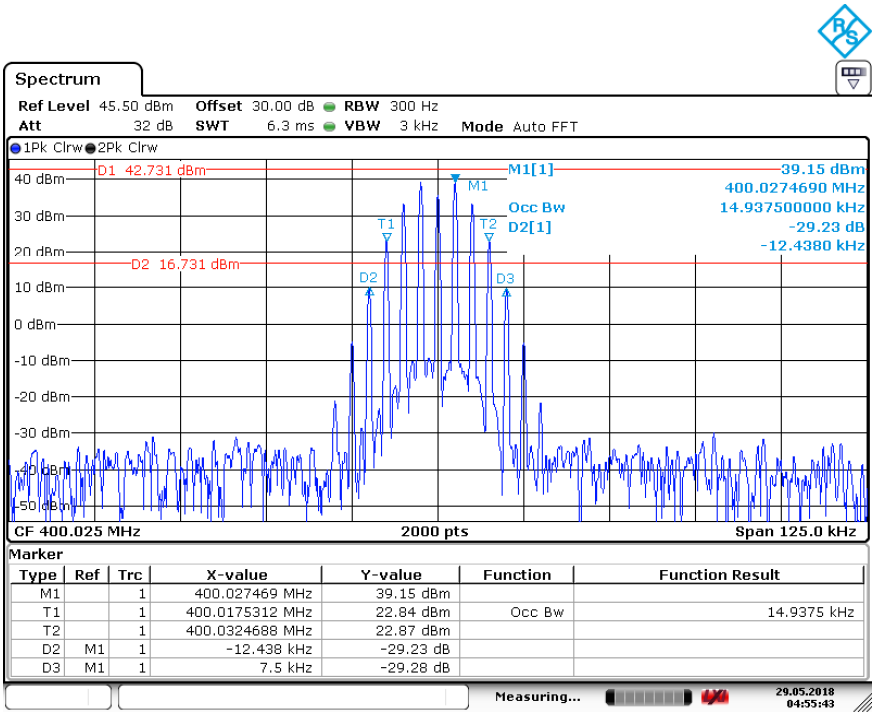
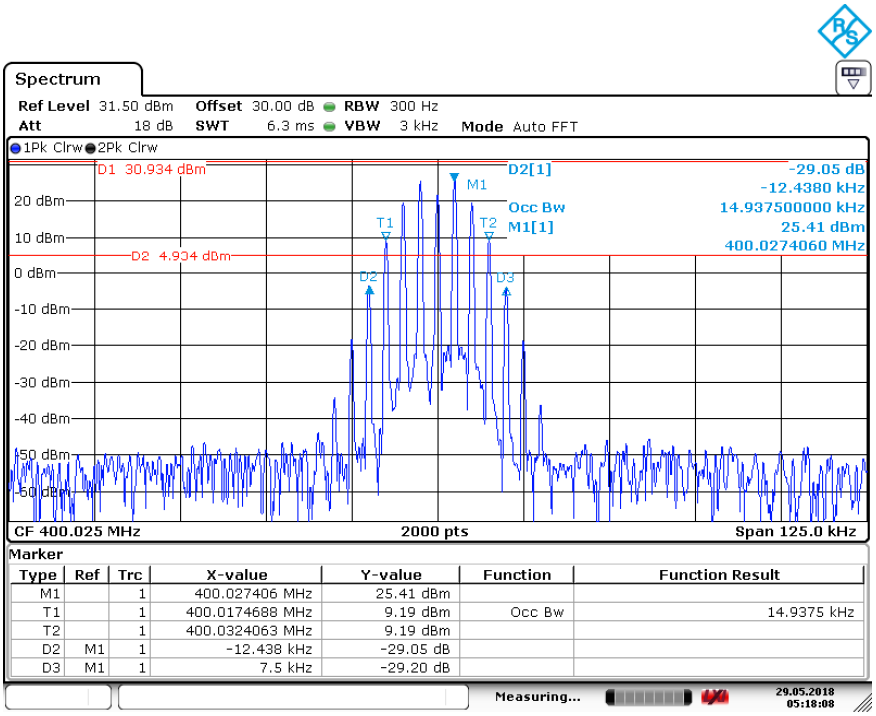
25KHz, Analog modulation, Assigned Frequency:400.025MHz, High Power



Date: 29.MAY.2018 04:55:42

25KHz, Analog modulation, Assigned Frequency:400.025MHz, Low Power



Date: 29.MAY.2018 05:18:08

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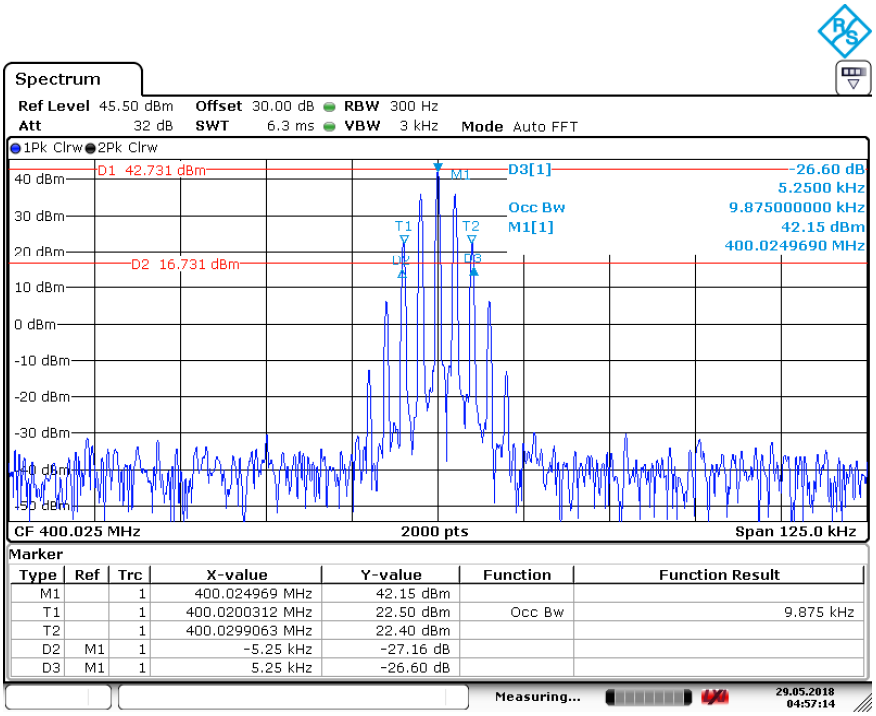
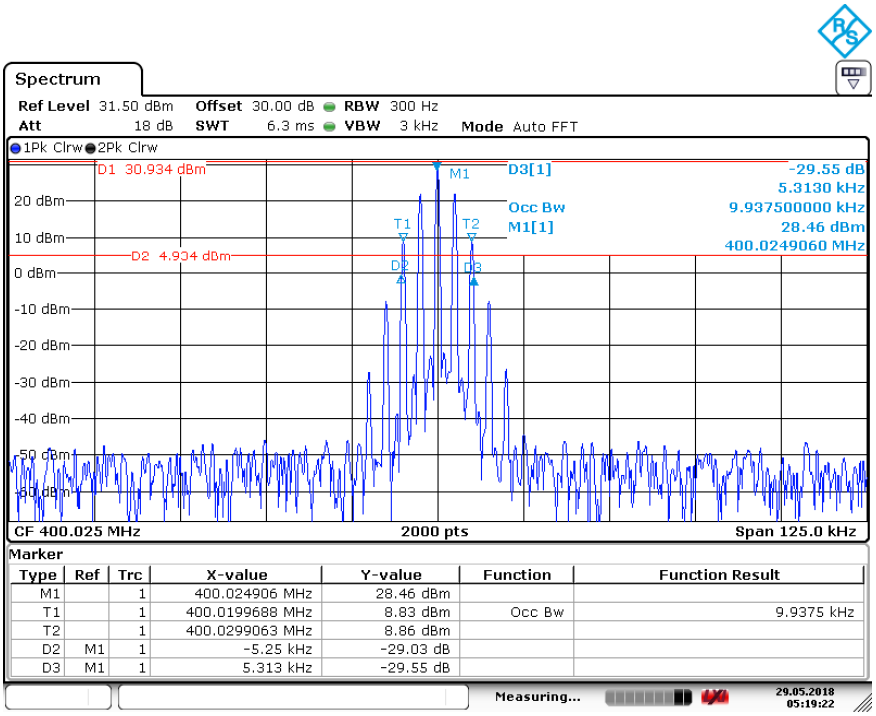
12.5KHz, Analog modulation, Assigned Frequency:400.025MHz, High Power



Date: 29.MAY.2018 04:57:14

12.5KHz, Analog modulation, Assigned Frequency:400.025MHz, Low Power



Date: 29.MAY.2018 05:19:23

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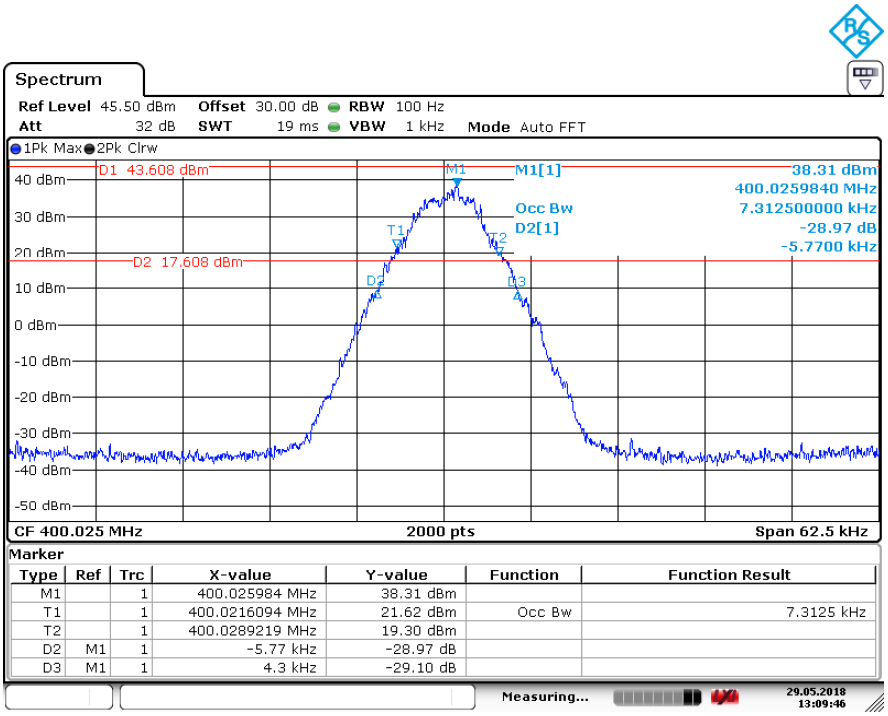
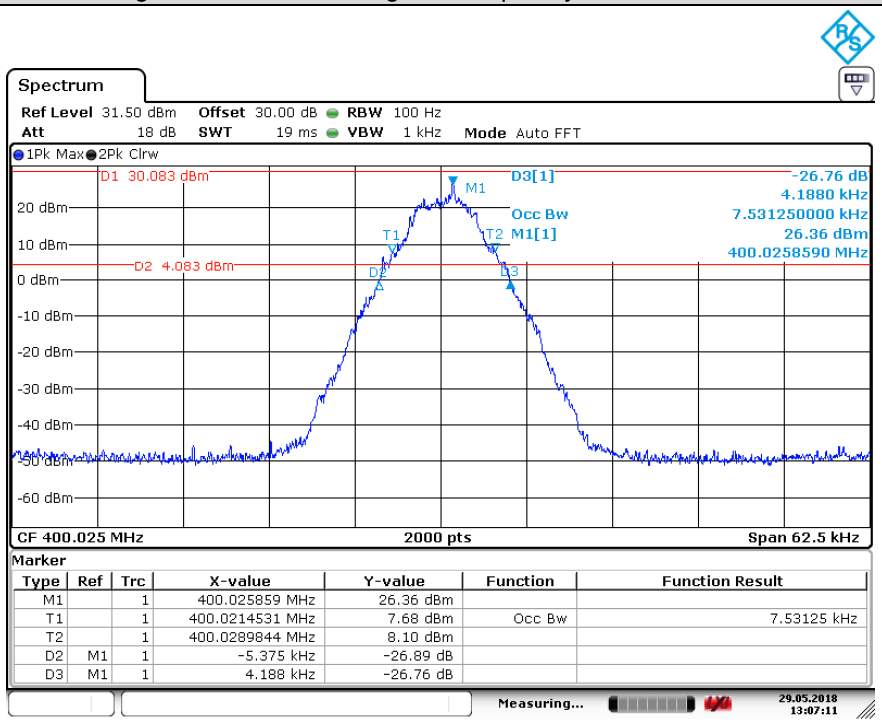
12.5KHz, Digital modulation, Assigned Frequency: 400.025MHz, High Power



Date: 29.MAY.2018 13:09:46

12.5KHz, Digital modulation, Assigned Frequency: 400.025MHz, Low Power



Date: 29.MAY.2018 13:07:11

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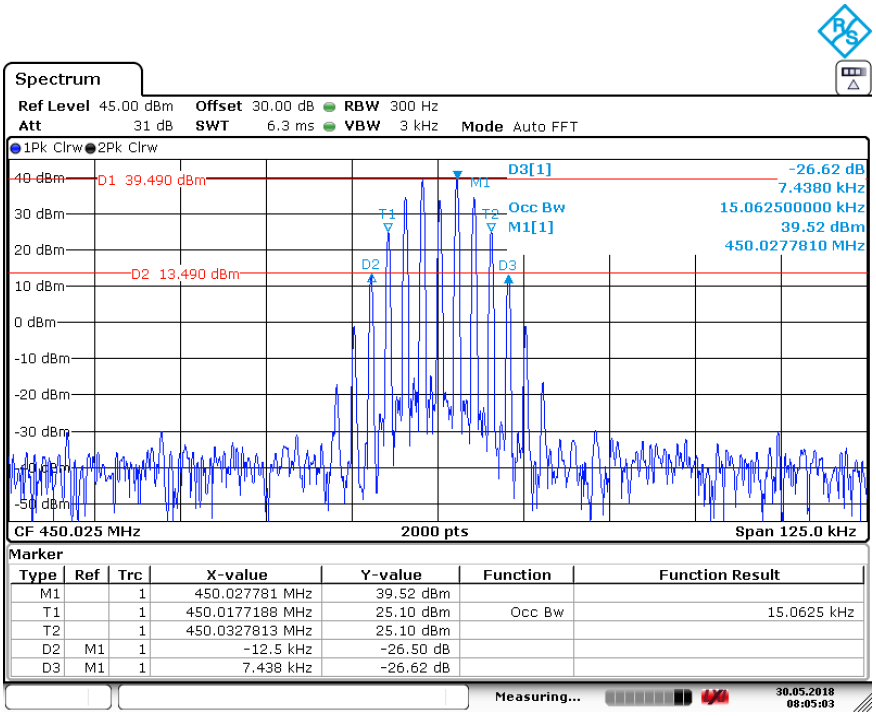
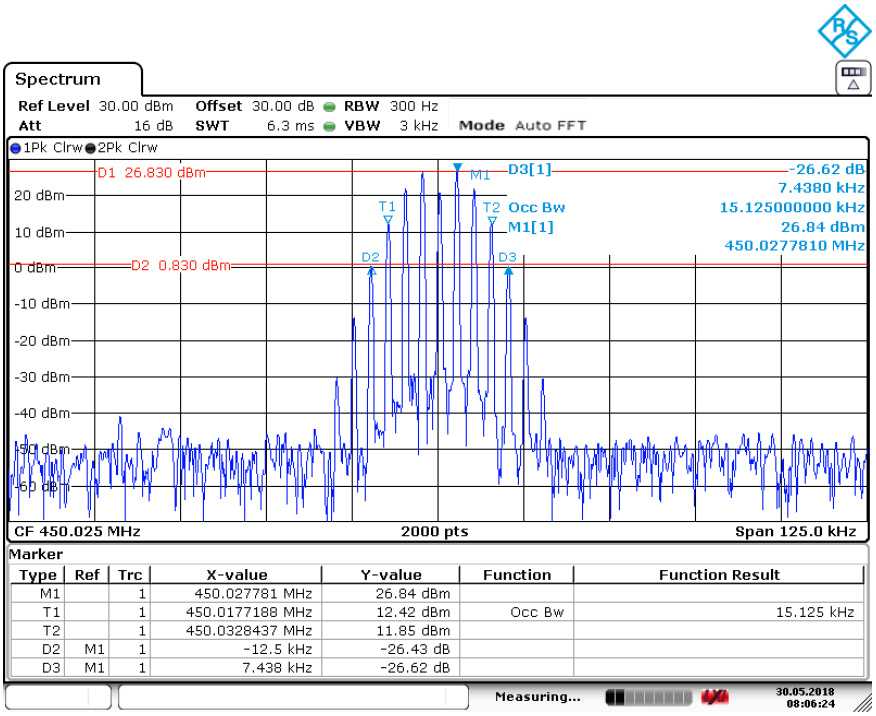
25KHz, Analog modulation, Assigned Frequency:450.025MHz, High Power



Date: 30.MAY.2018 08:05:04

25KHz, Analog modulation, Assigned Frequency:450.025MHz, Low Power



Date: 30.MAY.2018 08:06:25

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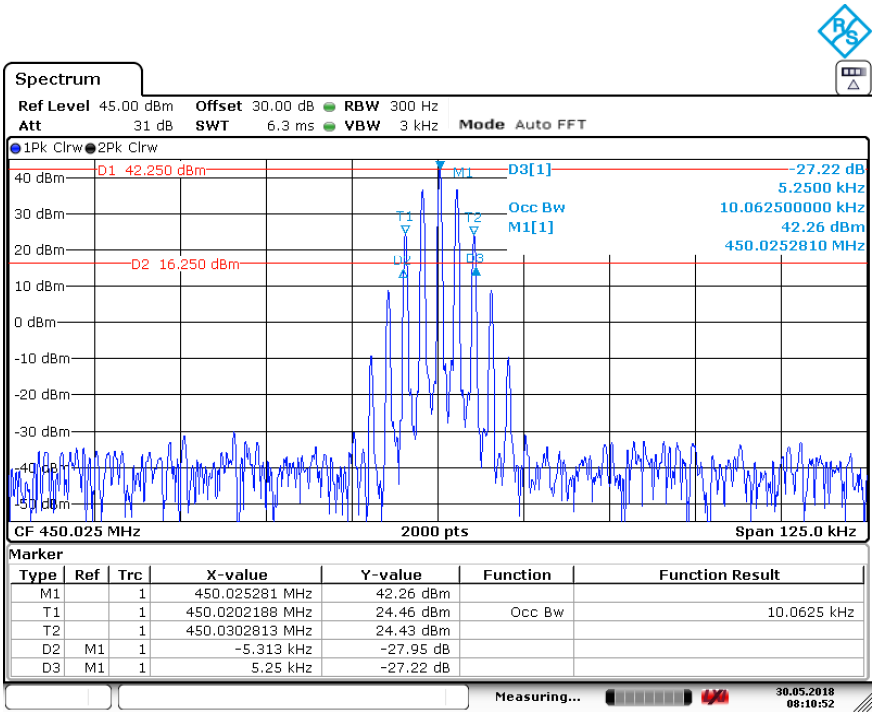
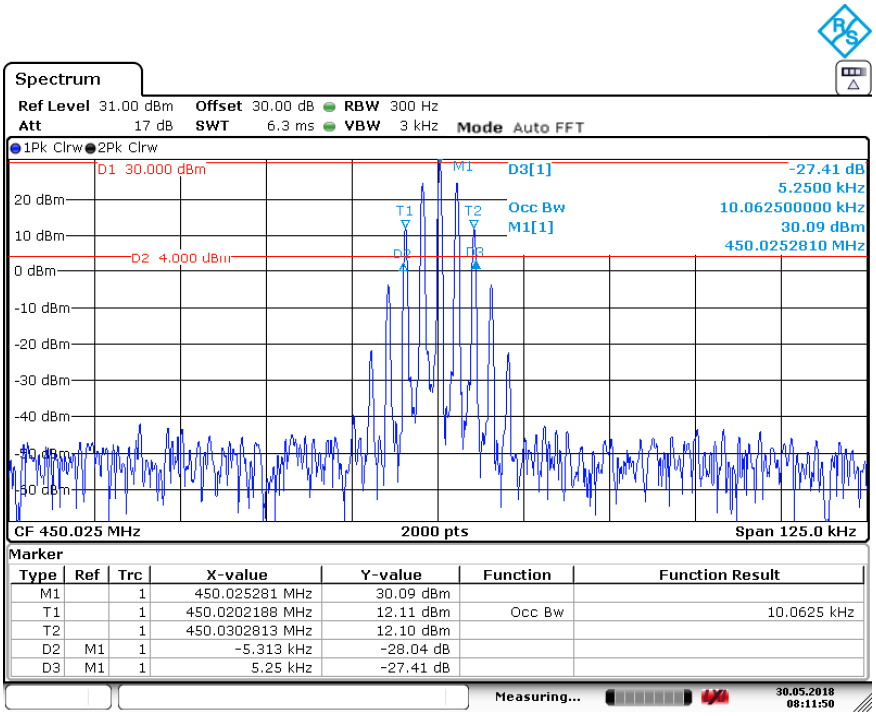
12.5KHz, Analog modulation, Assigned Frequency:450.025MHz, High Power



Date: 30.MAY.2018 08:10:53

12.5KHz, Analog modulation, Assigned Frequency:450.025MHz, Low Power



Date: 30.MAY.2018 08:11:50

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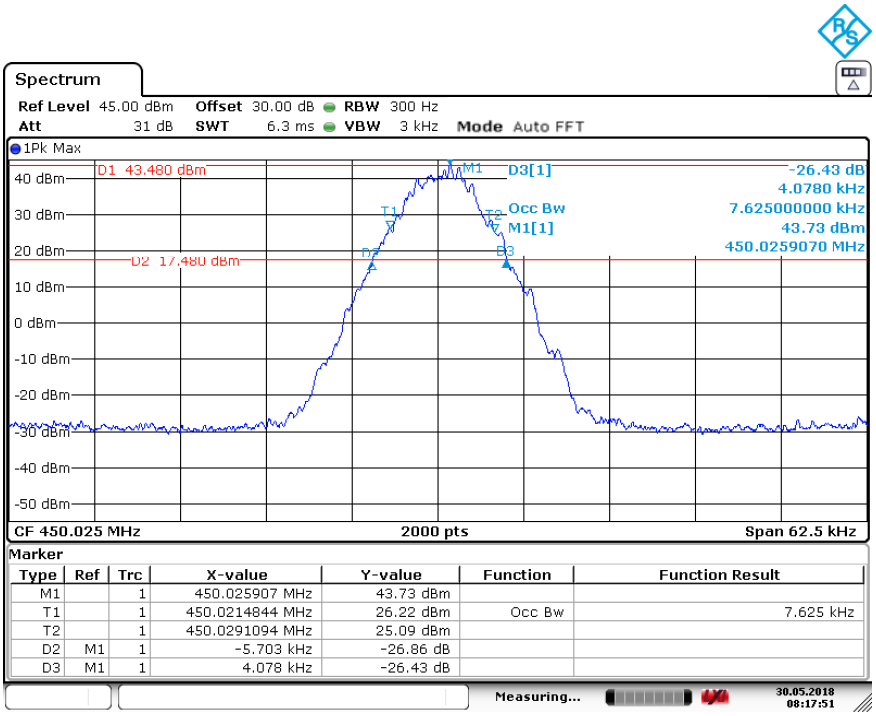
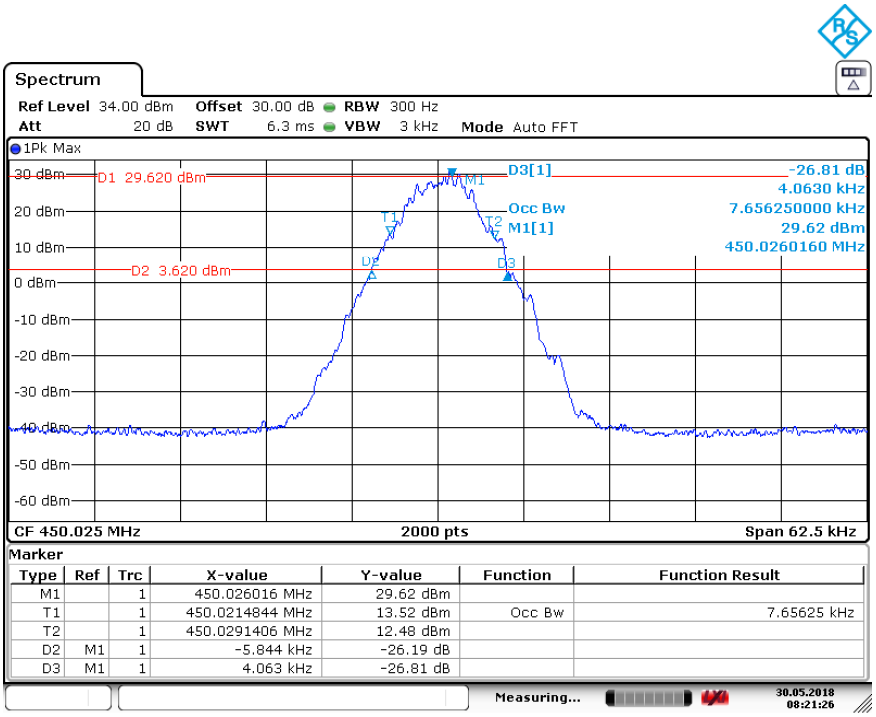
12.5KHz, Digital modulation, Assigned Frequency: 450.025MHz, High Power



Date: 30.MAY.2018 08:17:51

12.5KHz, Digital modulation, Assigned Frequency:450.025MHz, Low Power



Date: 30.MAY.2018 08:21:26

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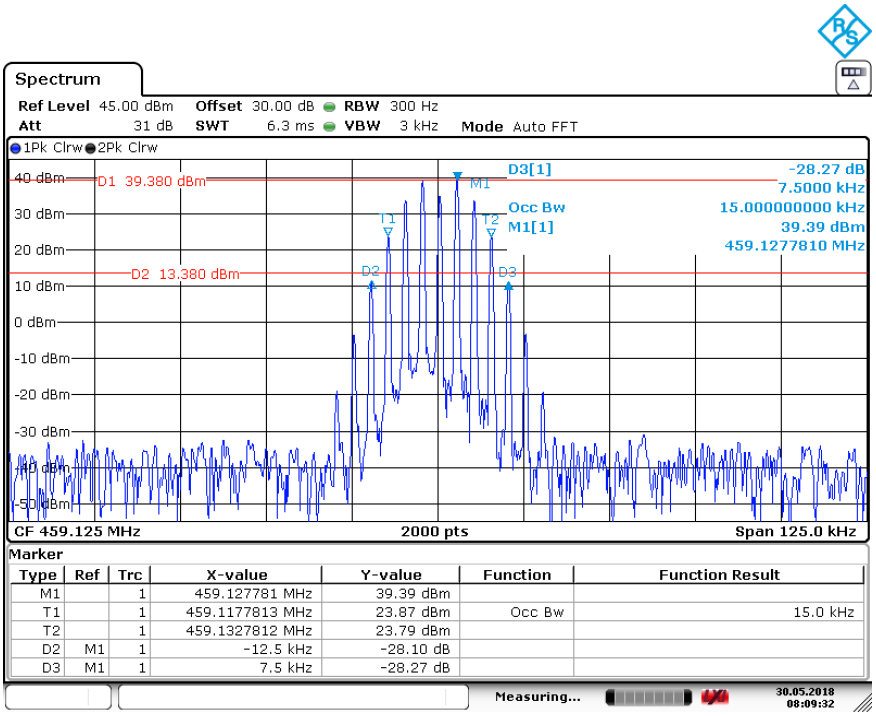
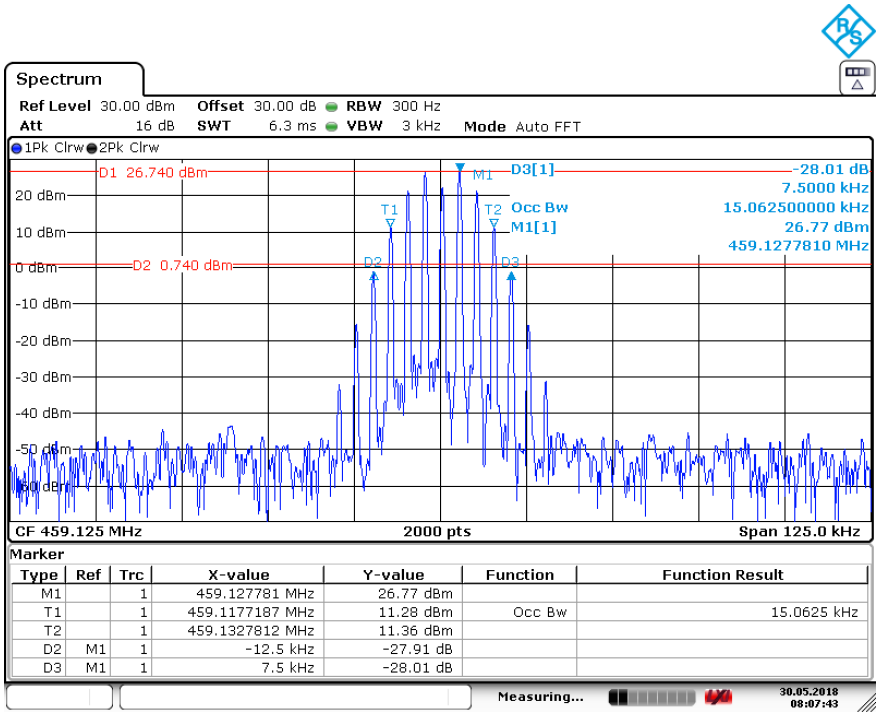
25KHz, Analog modulation, Assigned Frequency:459.125MHz, High Power



Date: 30.MAY.2018 08:09:32

25KHz, Analog modulation, Assigned Frequency:459.125MHz, Low Power



Date: 30.MAY.2018 08:07:44

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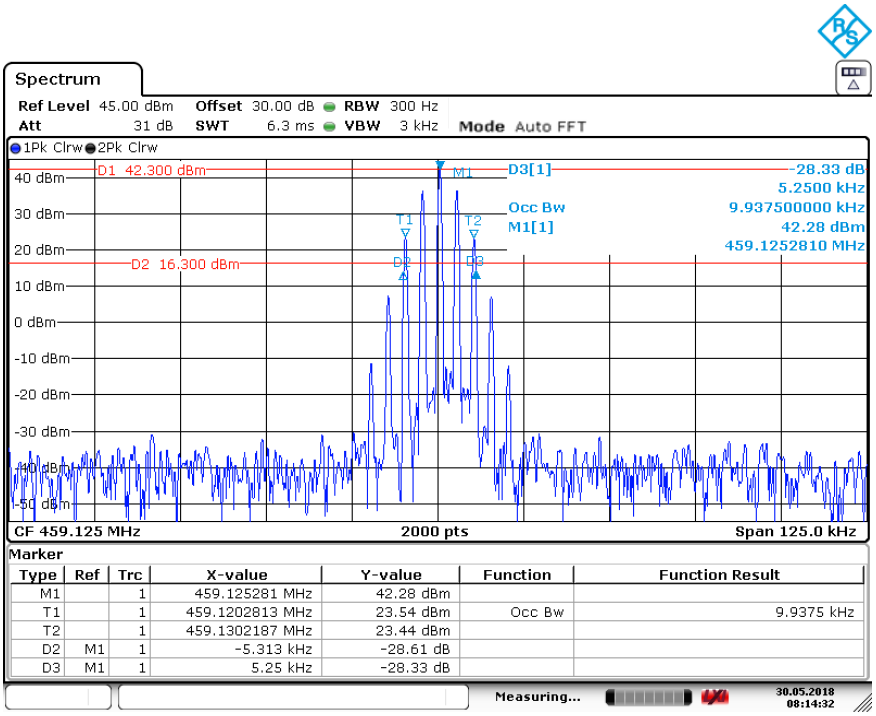
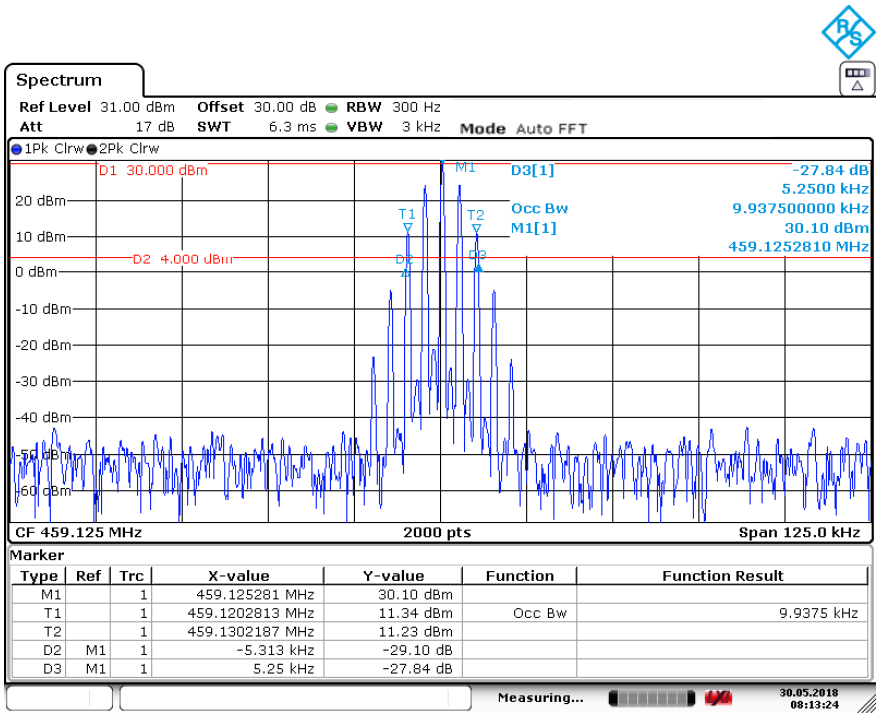
12.5KHz, Analog modulation, Assigned Frequency:459.125MHz, High Power



Date: 30.MAY.2018 08:14:32

12.5KHz, Analog modulation, Assigned Frequency:459.125MHz, Low Power



Date: 30.MAY.2018 08:13:24

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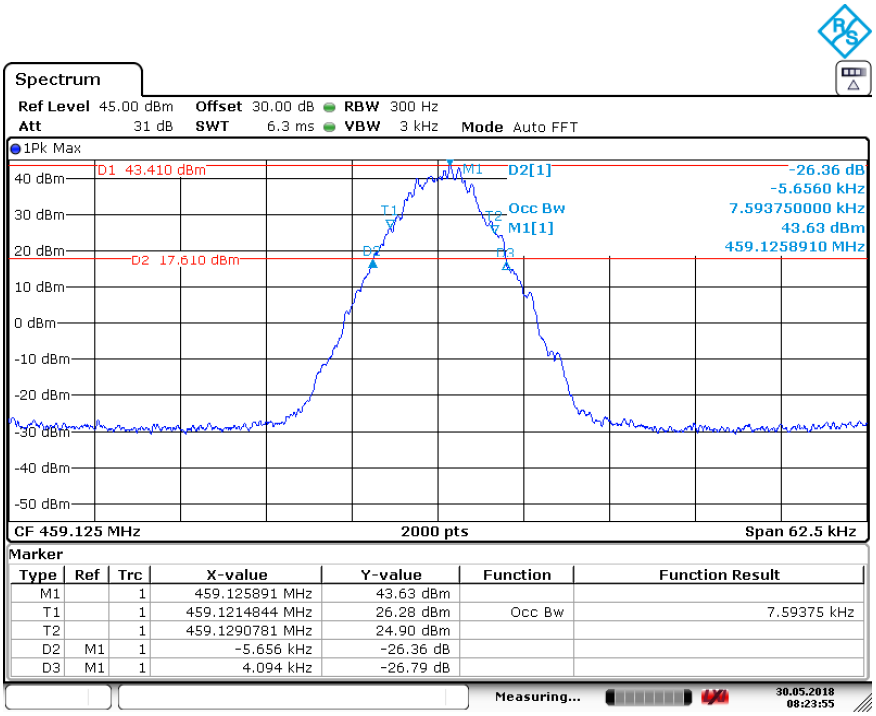
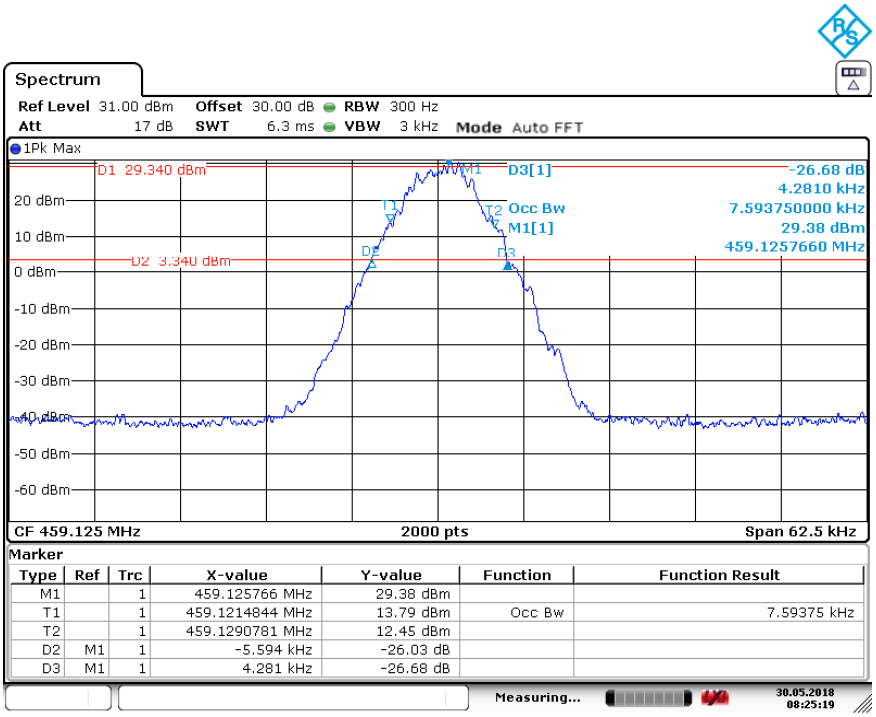
12.5KHz, Digital modulation, Assigned Frequency: 459.125MHz, High Power



Date: 30.MAY.2018 08:23:56

12.5KHz, Digital modulation, Assigned Frequency:459.125MHz, Low Power



Date: 30.MAY.2018 08:25:19

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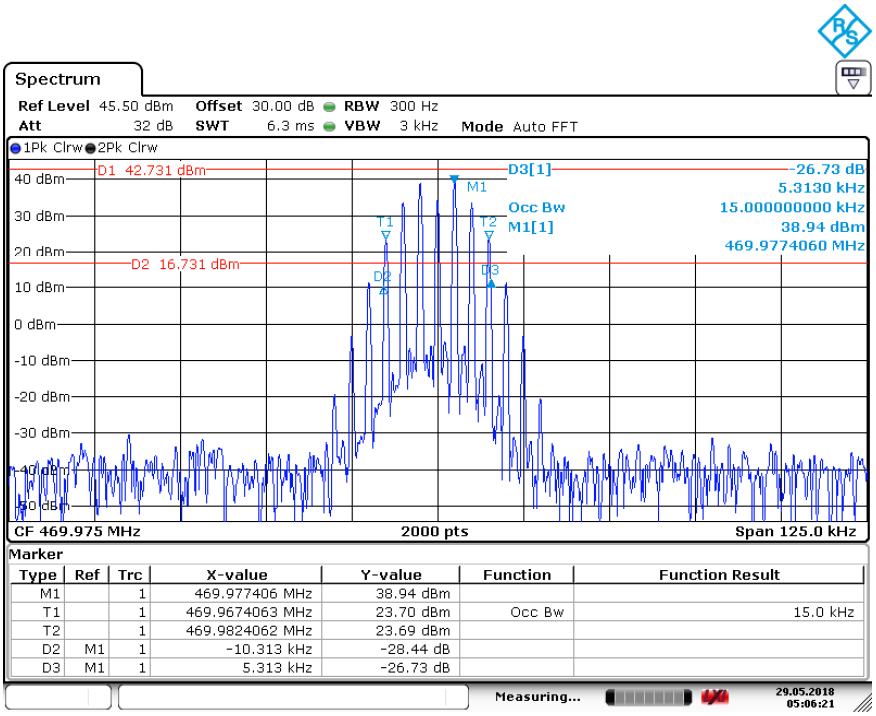
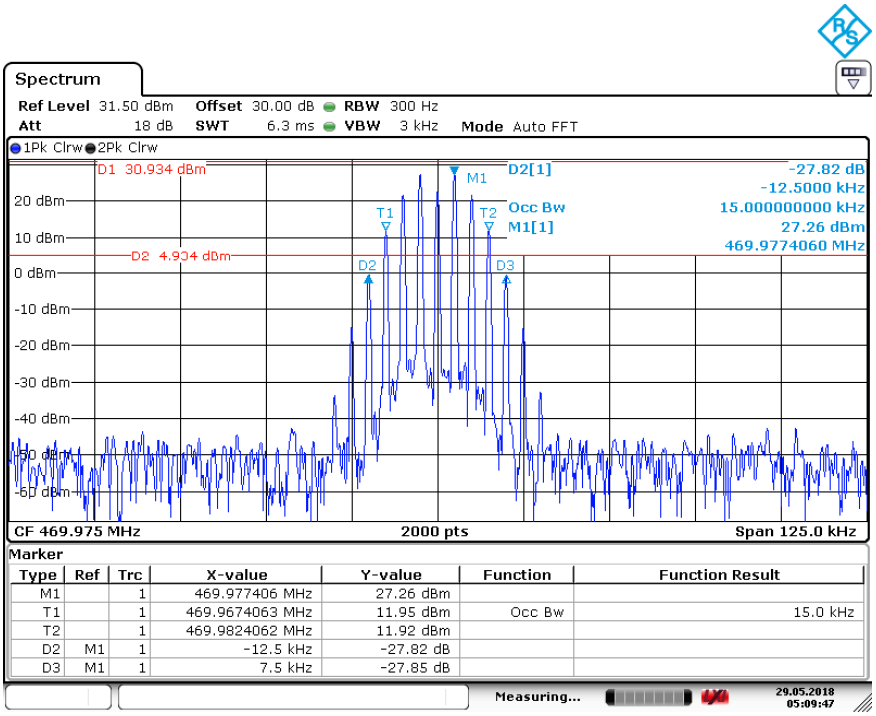
25KHz, Analog modulation, Assigned Frequency:469.975MHz, High Power



Date: 29.MAY.2018 05:06:22

25KHz, Analog modulation, Assigned Frequency:469.975MHz, Low Power



Date: 29.MAY.2018 05:09:47

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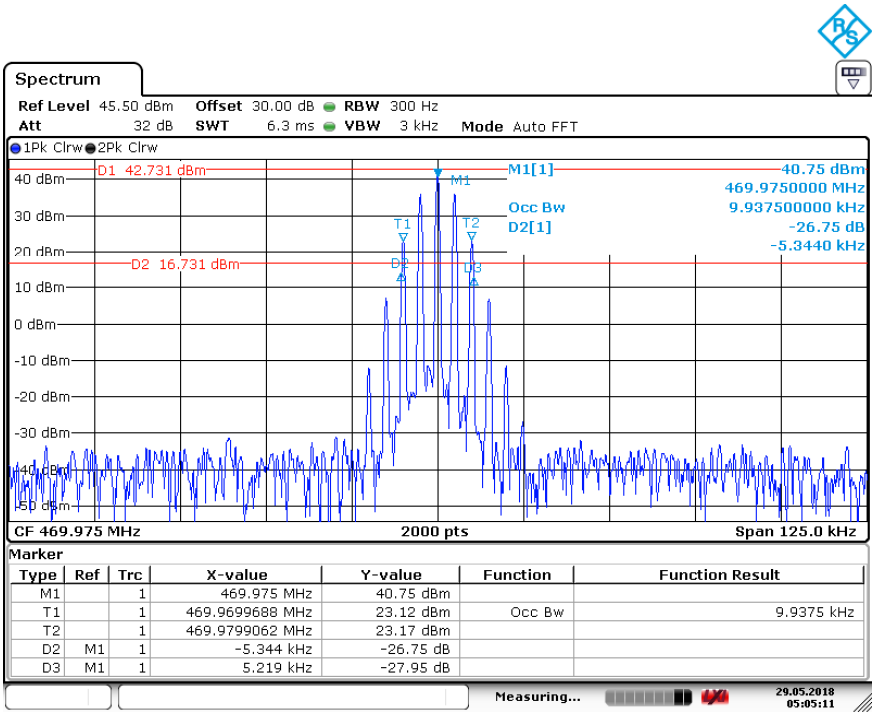
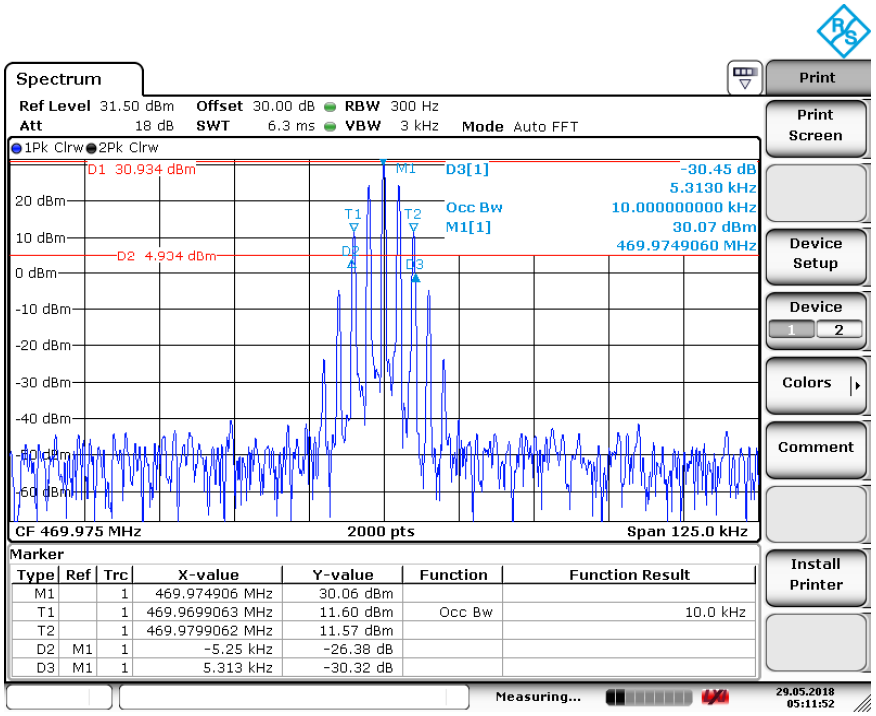
12.5KHz, Analog modulation, Assigned Frequency:469.975MHz, High Power



Date: 29.MAY.2018 05:05:12

12.5KHz, Analog modulation, Assigned Frequency:469.975MHz, Low Power



Date: 29.MAY.2018 05:11:52

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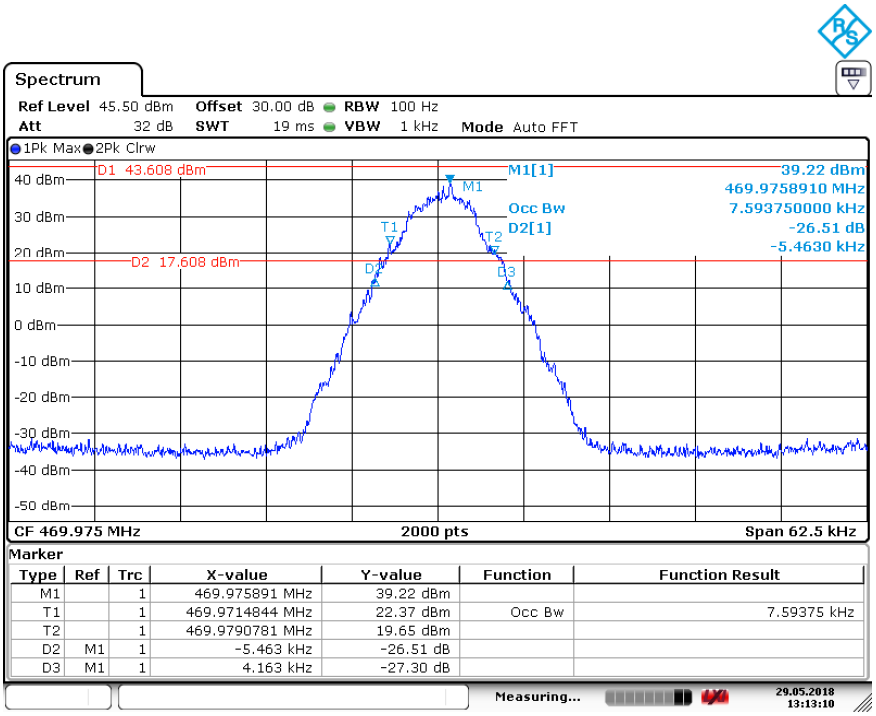
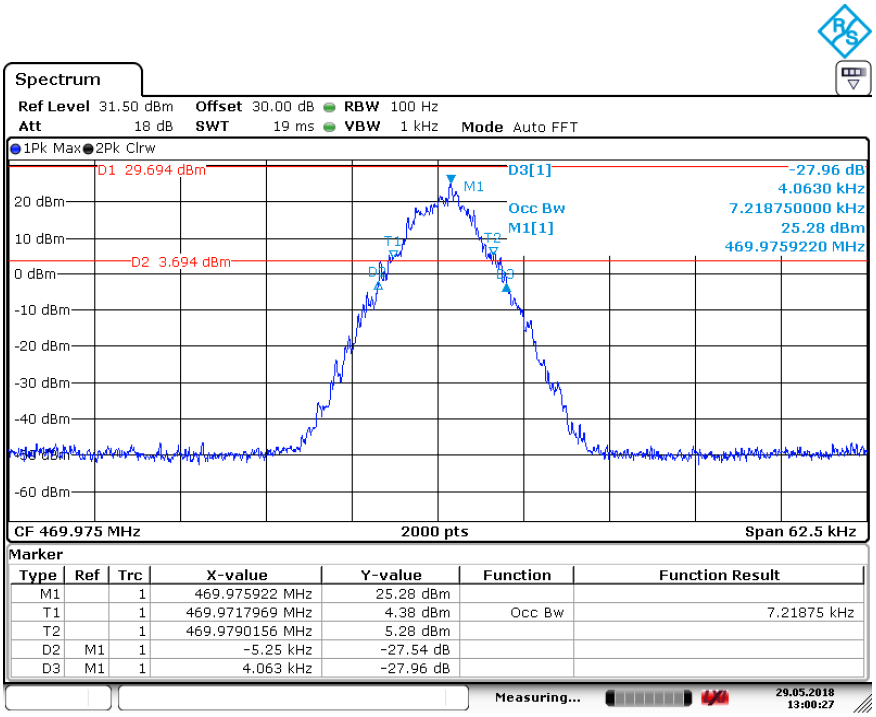
12.5KHz, Digital modulation, Assigned Frequency: 469.975MHz, High Power



Date: 29.MAY.2018 13:13:10

12.5KHz, Digital modulation, Assigned Frequency: 469.975MHz, Low Power



Date: 29.MAY.2018 13:00:28

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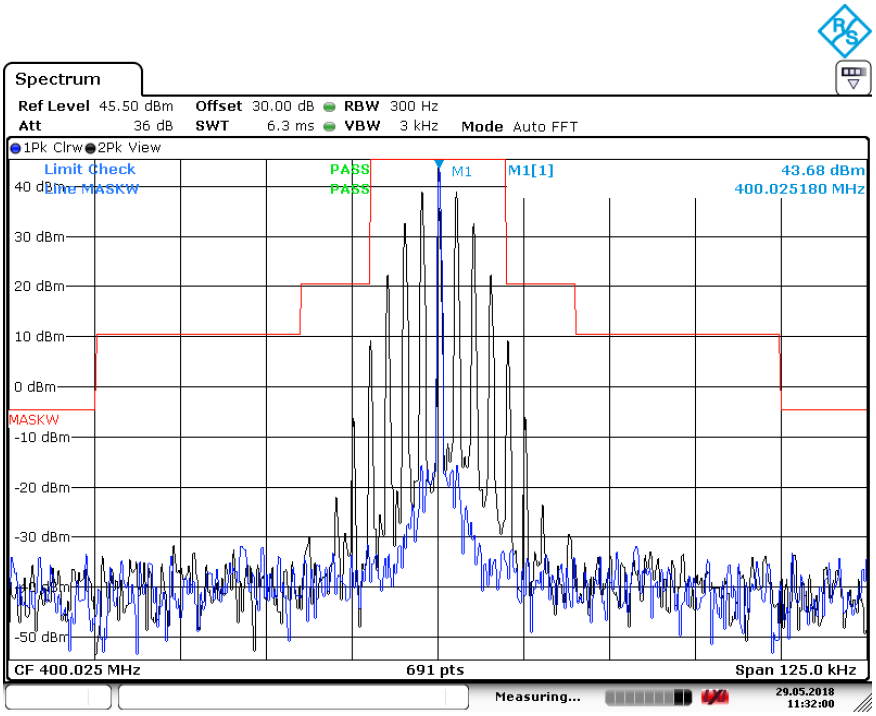
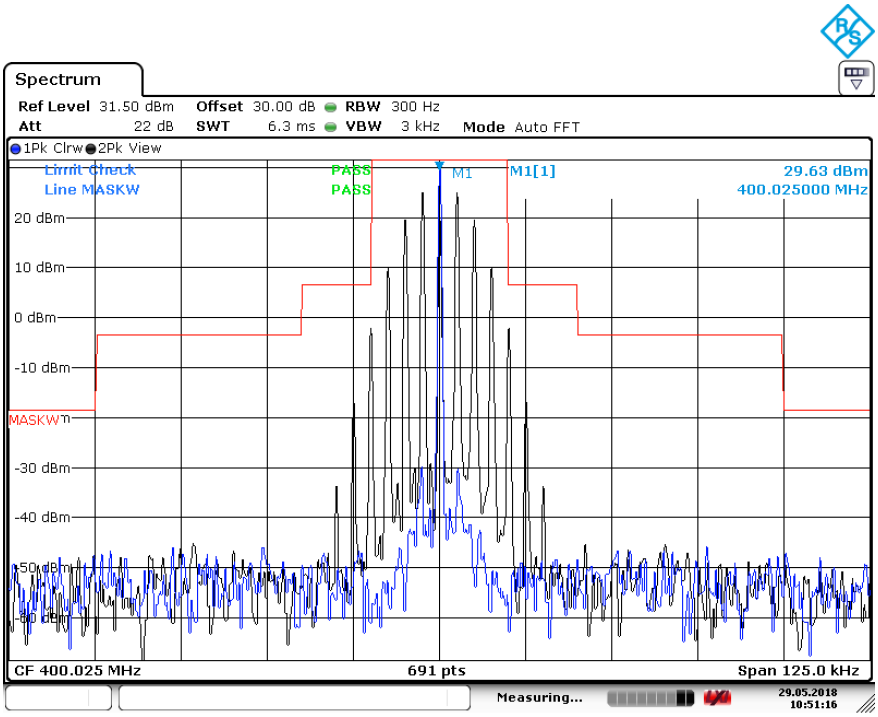
7.Emission Mask

25KHz, Analog modulation, Assigned Frequency:400.025MHz, High Power



Date: 29.MAY.2018 11:32:00

25KHz, Analog modulation, Assigned Frequency:400.025MHz, Low Power



Date: 29.MAY.2018 10:51:16

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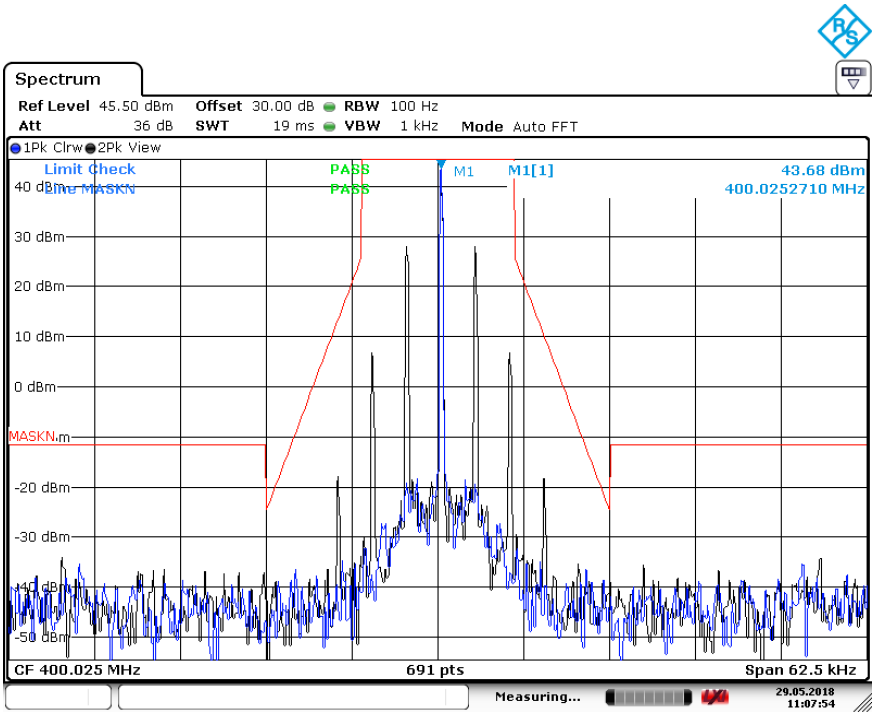
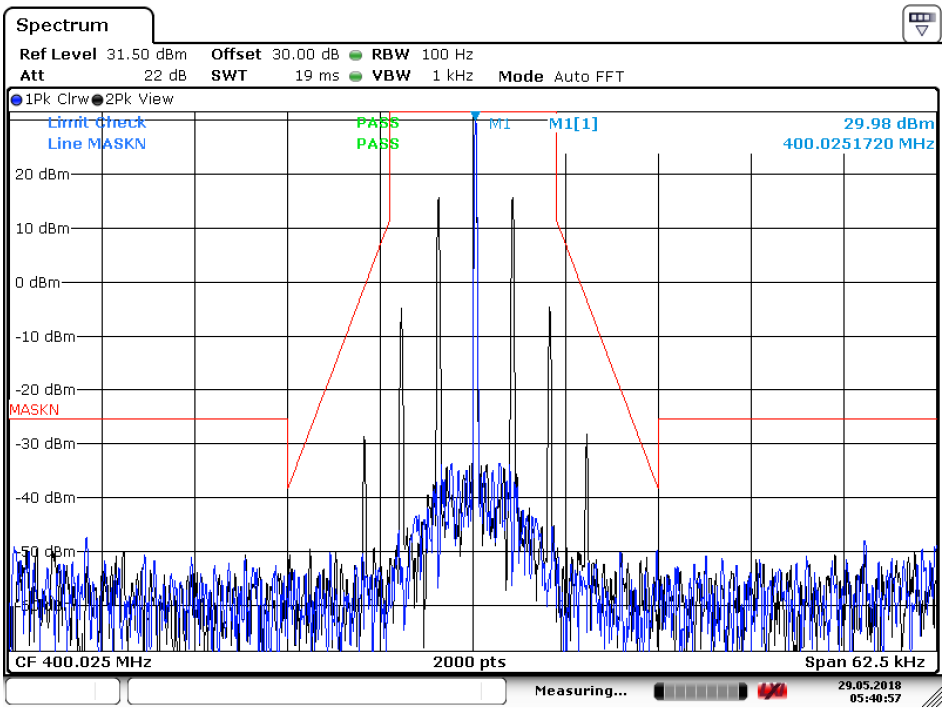
12.5KHz, Analog modulation, Assigned Frequency:400.025MHz, High Power



Date: 29.MAY.2018 11:07:54

12.5KHz, Analog modulation, Assigned Frequency:400.025MHz, Low Power



Date: 29.MAY.2018 05:40:58

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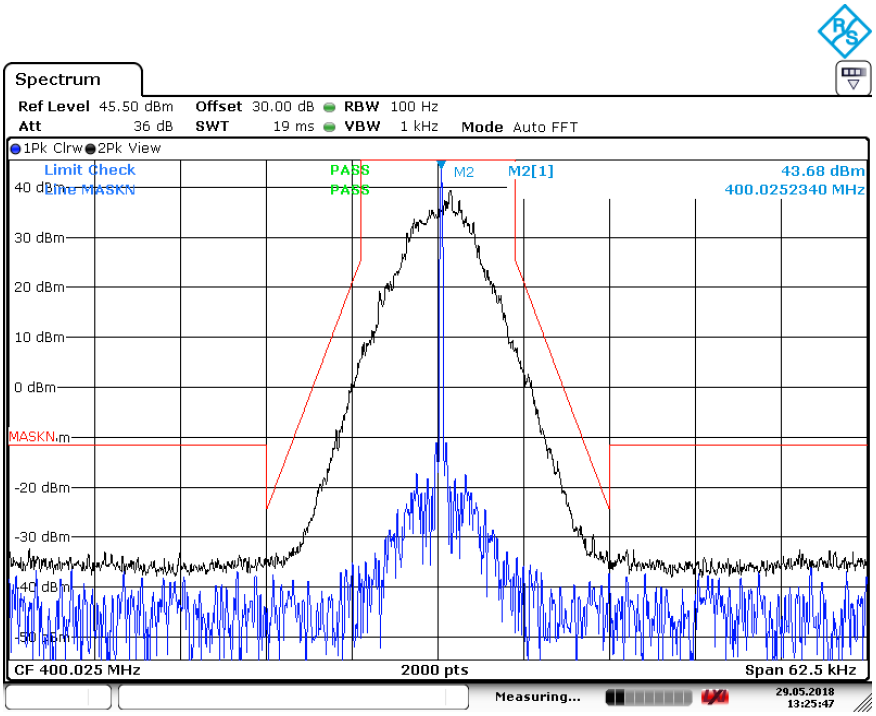
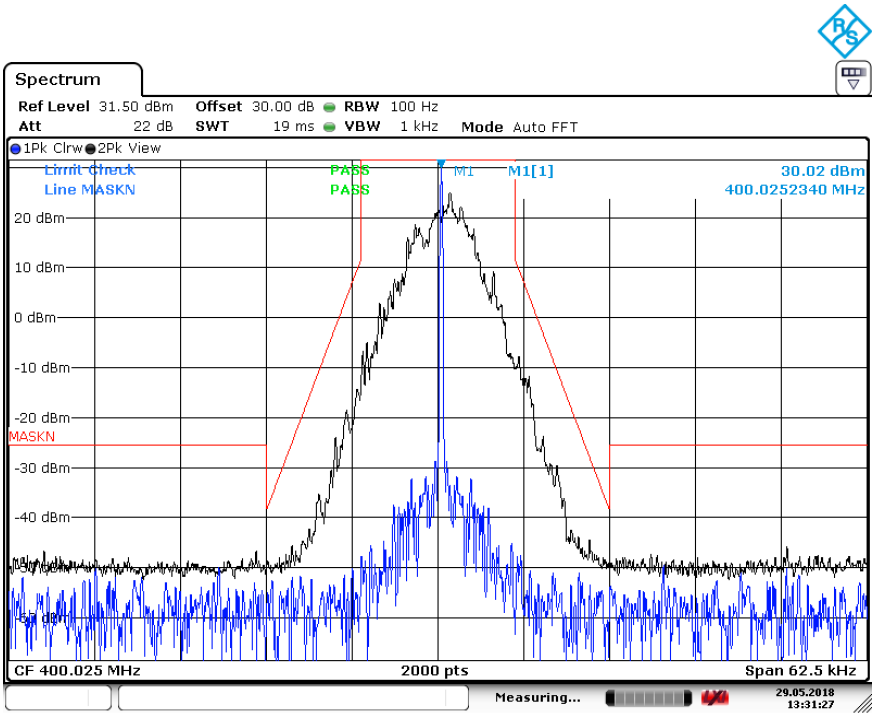
12.5KHz, Digital modulation, Assigned Frequency: 400.025MHz, High Power



Date: 29.MAY.2018 13:25:47

12.5KHz, Digital modulation, Assigned Frequency: 400.025MHz, Low Power



Date: 29.MAY.2018 13:31:27

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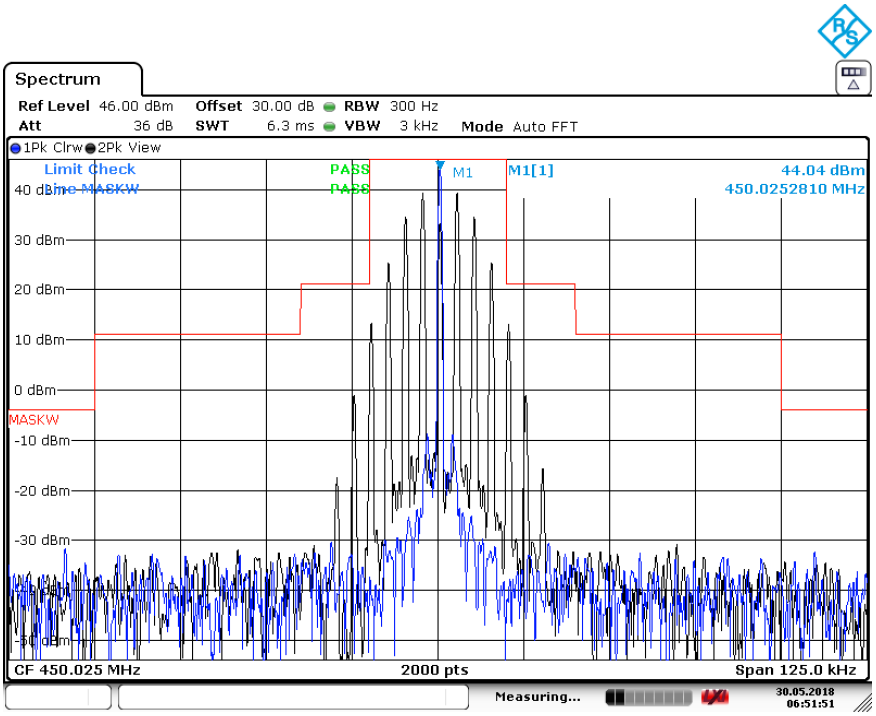
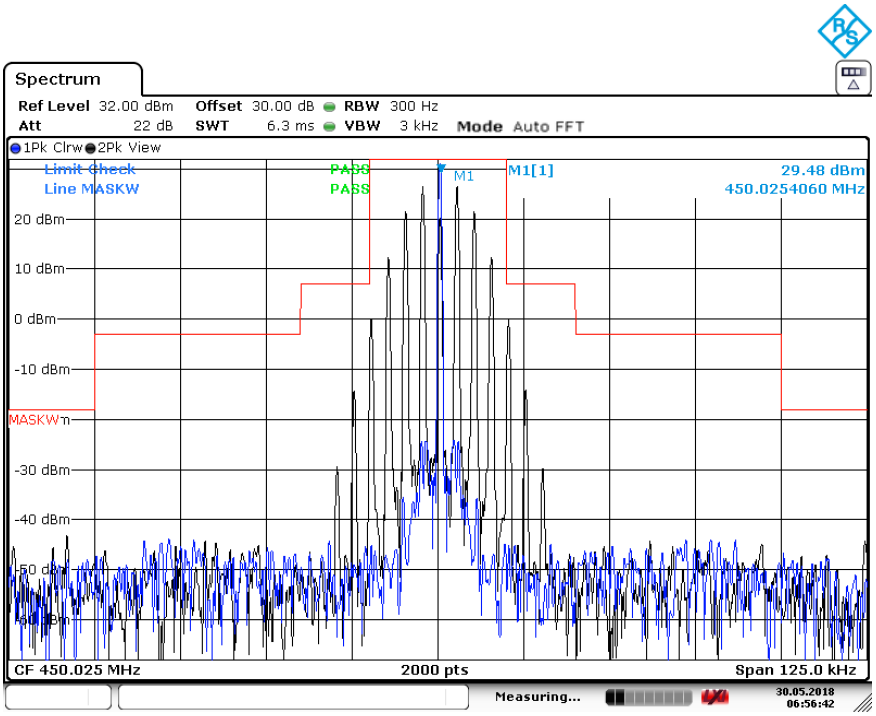
25KHz, Analog modulation, Assigned Frequency:450.025MHz, High Power



Date: 30.MAY.2018 06:51:51

25KHz, Analog modulation, Assigned Frequency:450.025MHz, Low Power



Date: 30.MAY.2018 06:56:42

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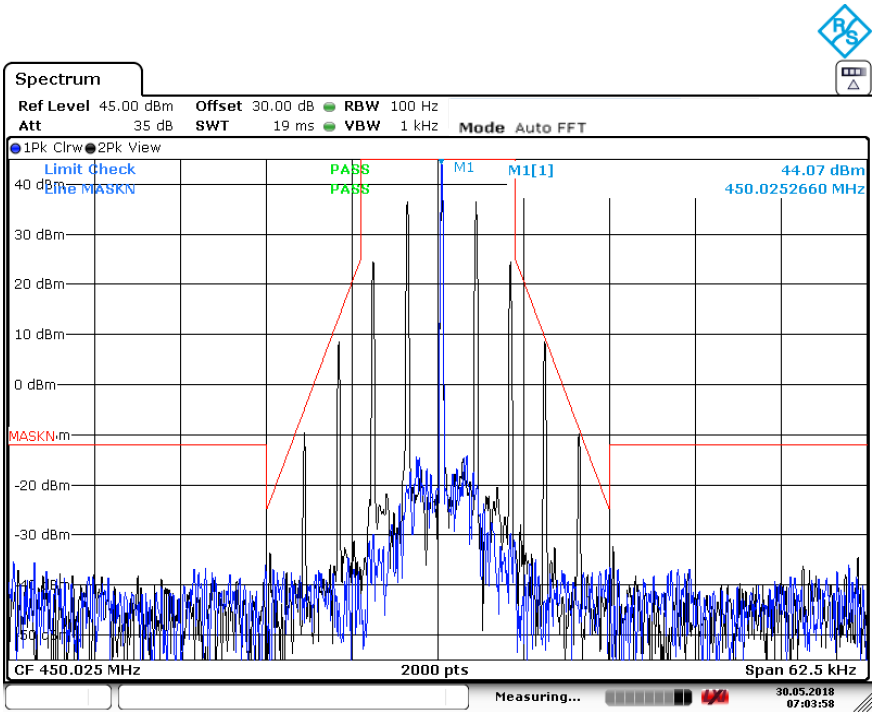
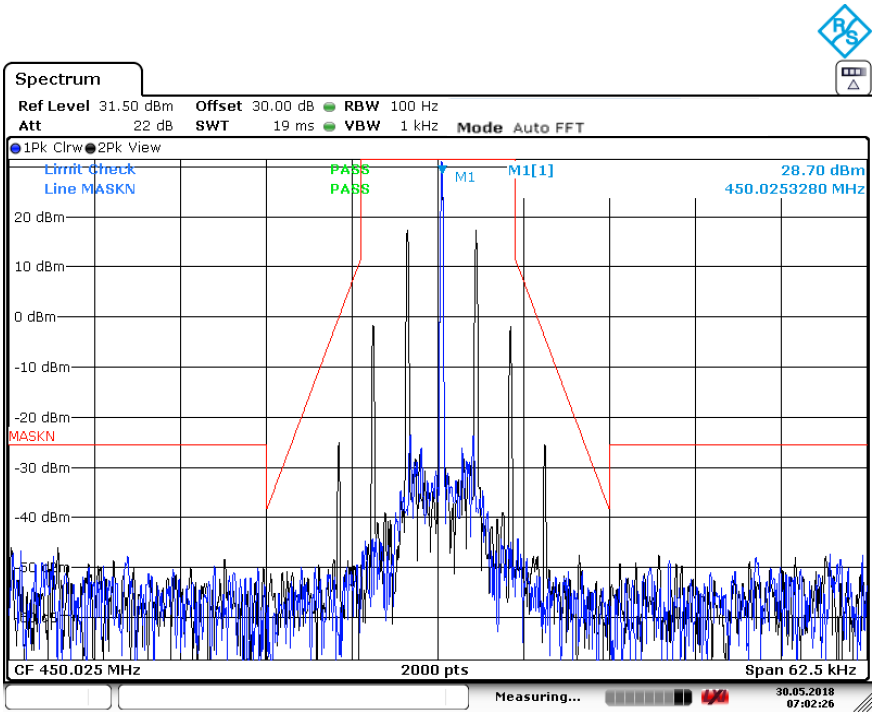
12.5KHz, Analog modulation, Assigned Frequency:450.025MHz, High Power



Date: 30.MAY.2018 07:03:58

12.5KHz, Analog modulation, Assigned Frequency:450.025MHz, Low Power



Date: 30.MAY.2018 07:02:27

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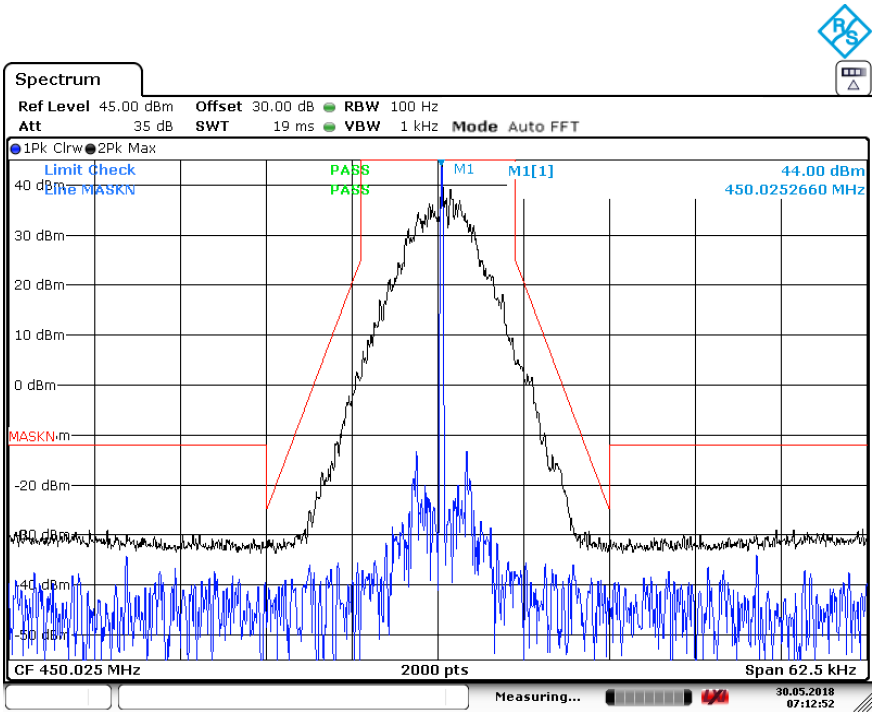
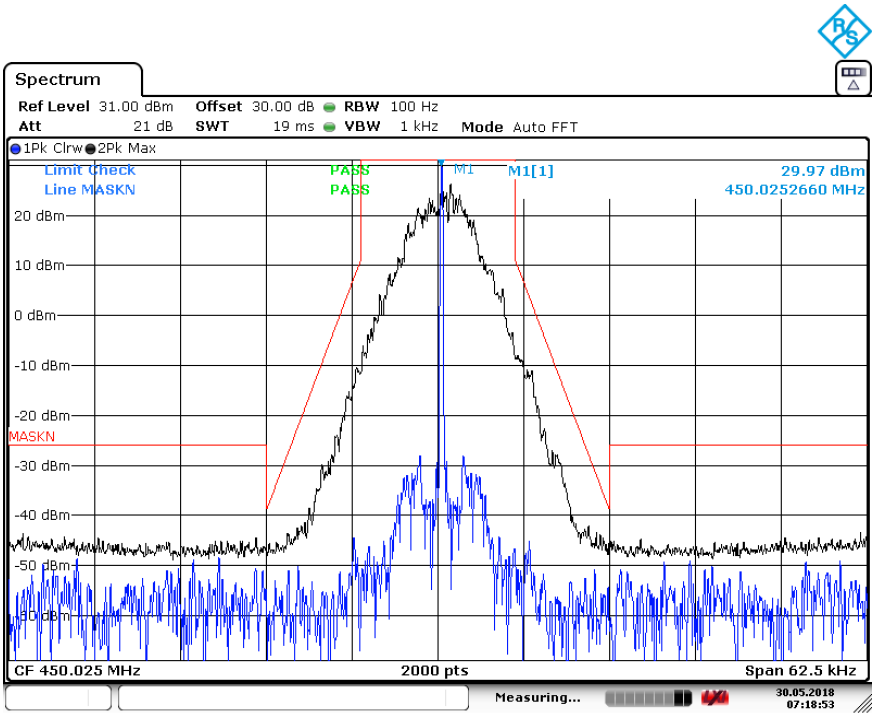
12.5KHz, Digital modulation, Assigned Frequency:450.025MHz, High Power



Date: 30.MAY.2018 07:12:52

12.5KHz, Digital modulation, Assigned Frequency:450.025MHz, Low Power



Date: 30.MAY.2018 07:18:54

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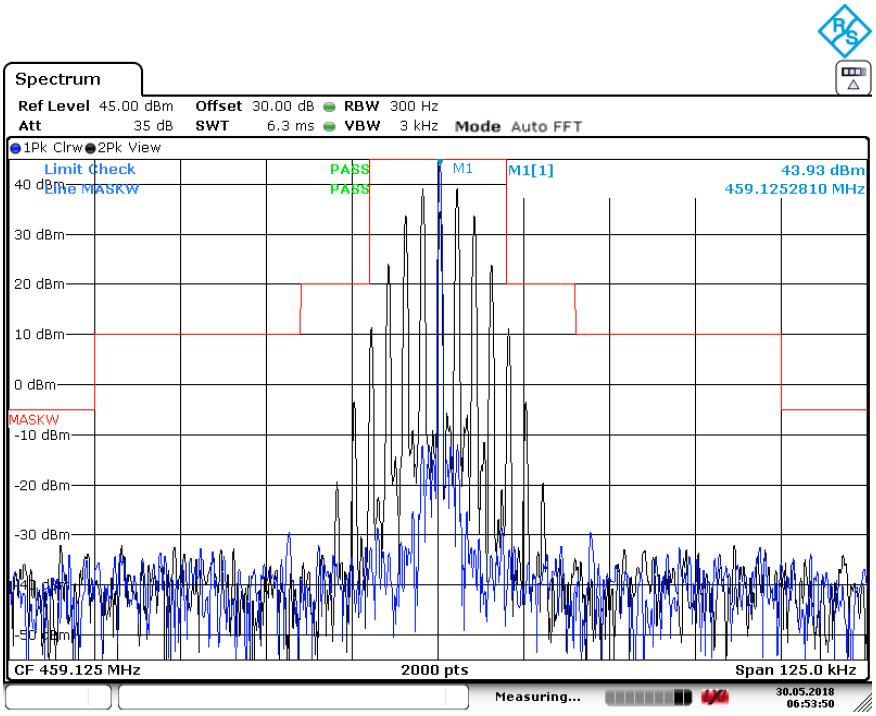
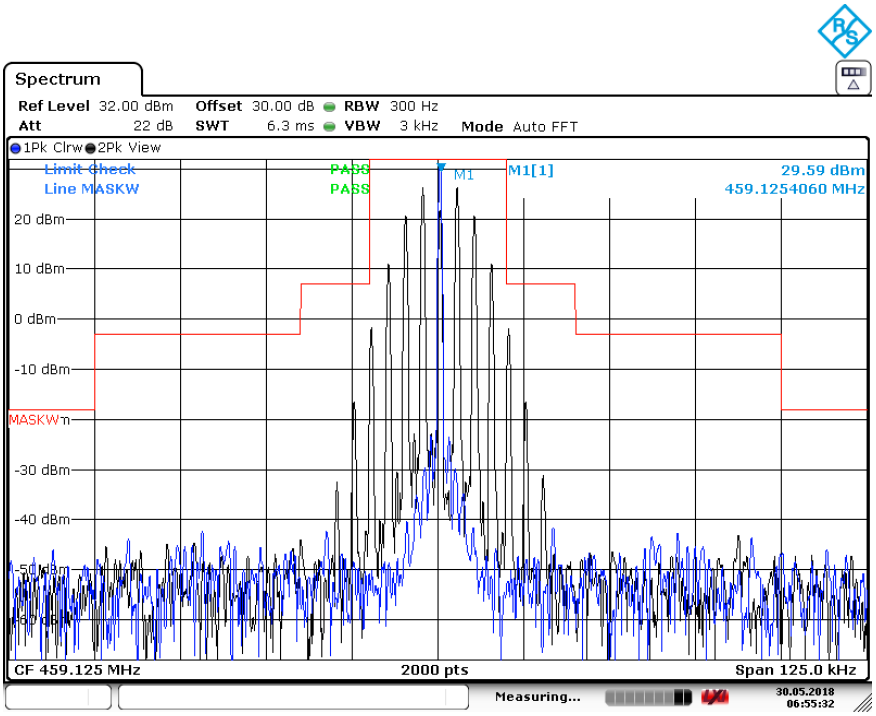
25KHz, Analog modulation, Assigned Frequency:459.125MHz, High Power



Date: 30.MAY.2018 06:53:50

25KHz, Analog modulation, Assigned Frequency:459.125MHz, Low Power



Date: 30.MAY.2018 06:55:32

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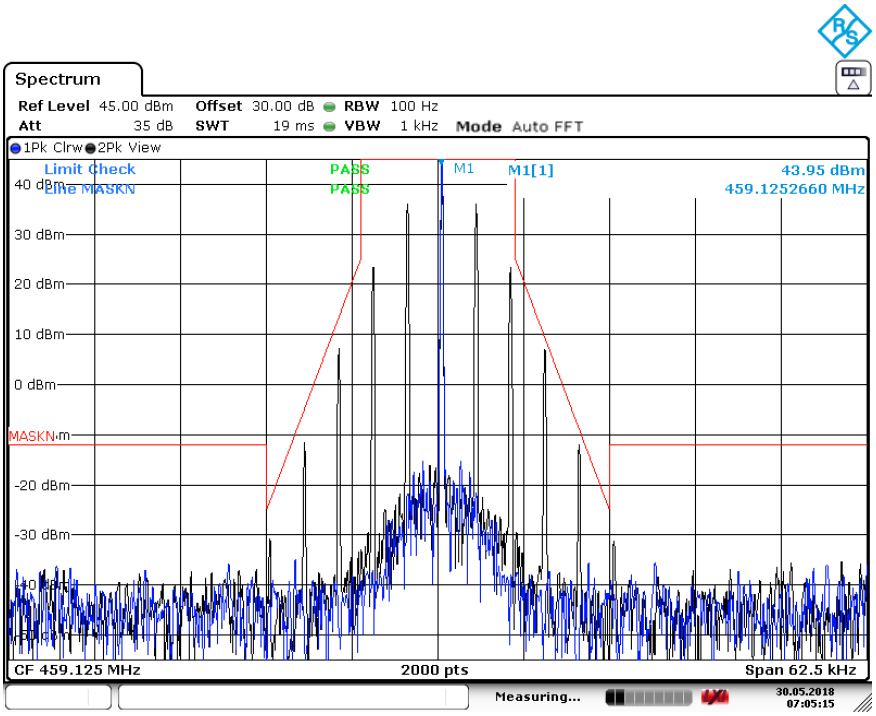
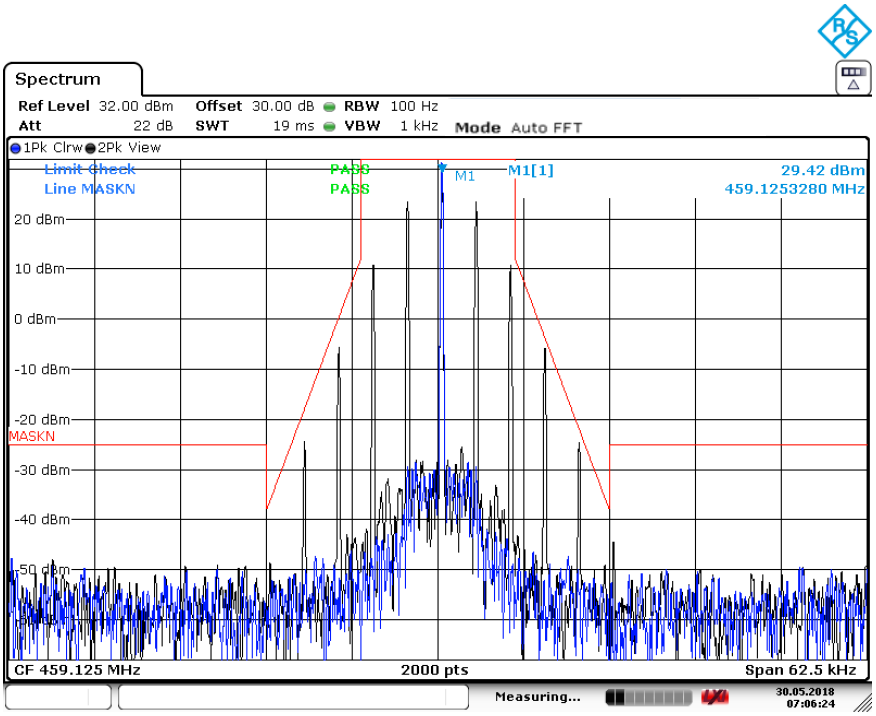
12.5KHz, Analog modulation, Assigned Frequency: 459.125MHz, High Power



Date: 30.MAY.2018 07:05:15

12.5KHz, Analog modulation, Assigned Frequency: 459.125MHz, Low Power



Date: 30.MAY.2018 07:06:24

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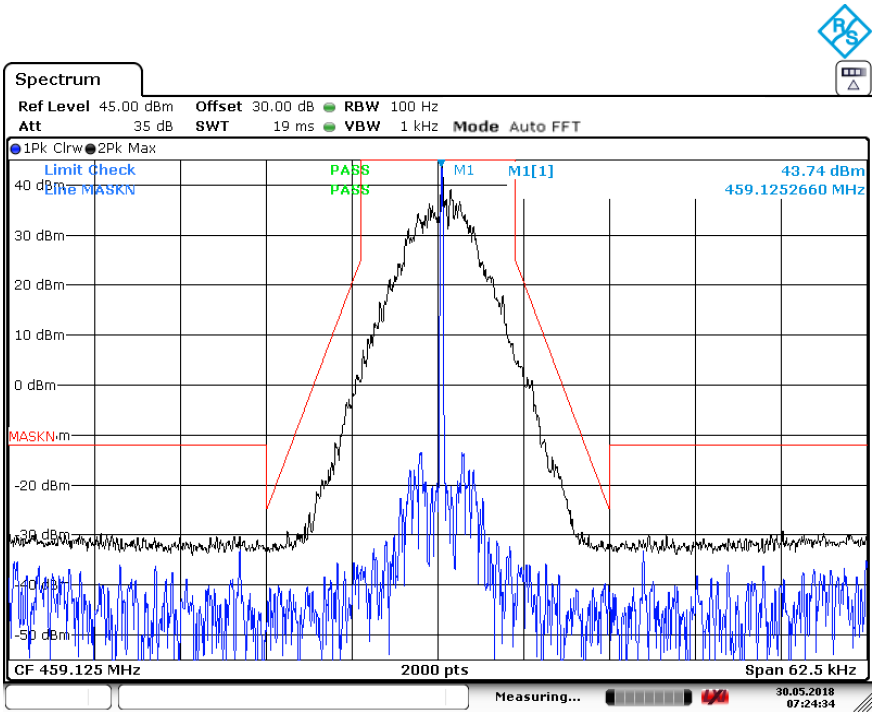
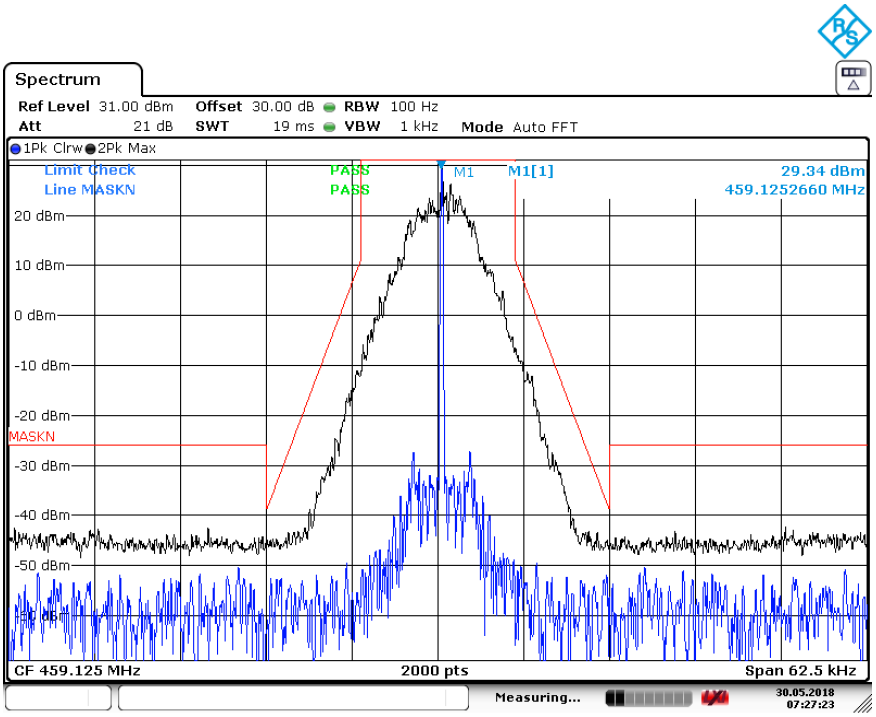
12.5KHz, Digital modulation, Assigned Frequency: 459.125MHz, High Power



Date: 30.MAY.2018 07:24:34

12.5KHz, Digital modulation, Assigned Frequency: 459.125MHz, Low Power



Date: 30.MAY.2018 07:27:24

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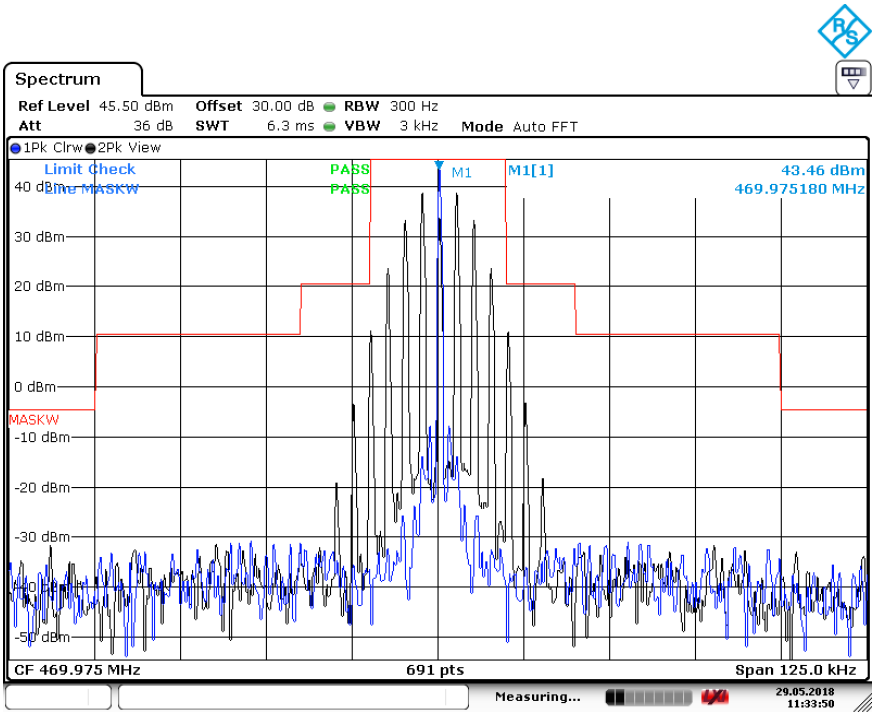
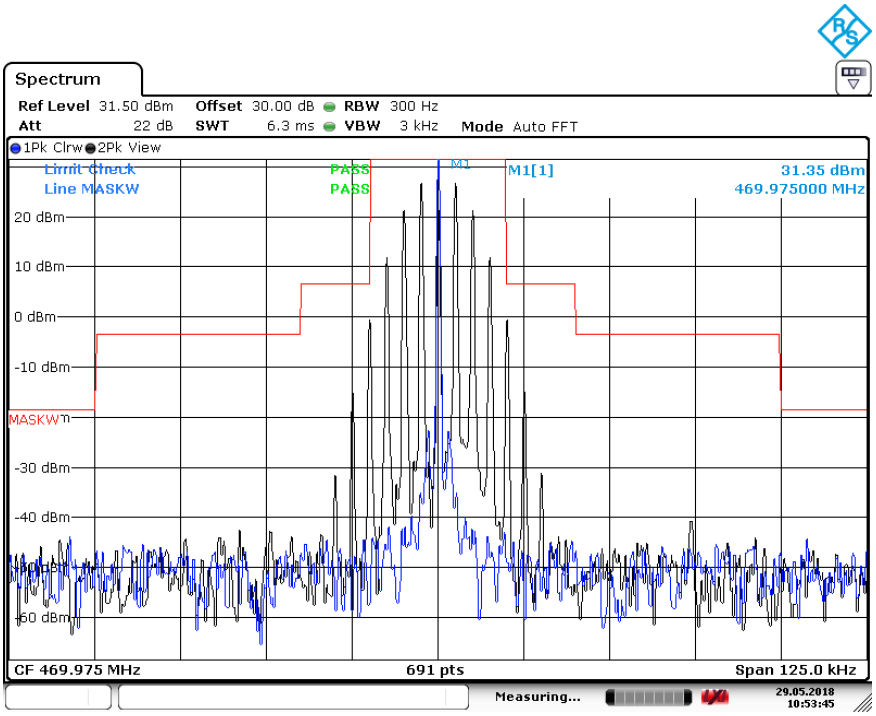
25KHz, Analog modulation, Assigned Frequency:469.975MHz, High Power



Date: 29.MAY.2018 11:33:50

25KHz, Analog modulation, Assigned Frequency:469.975MHz, Low Power



Date: 29.MAY.2018 10:53:45

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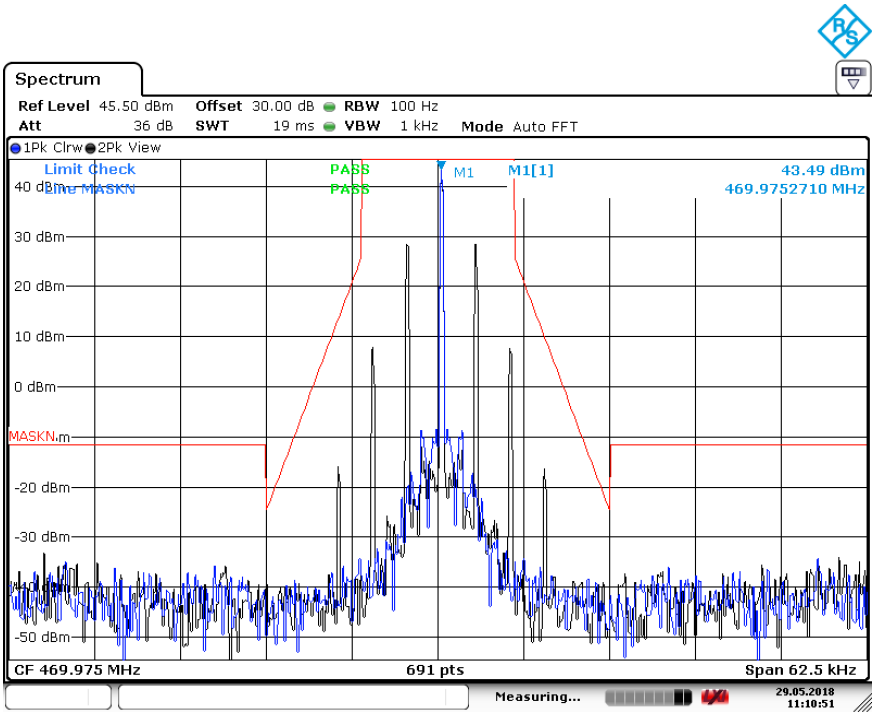
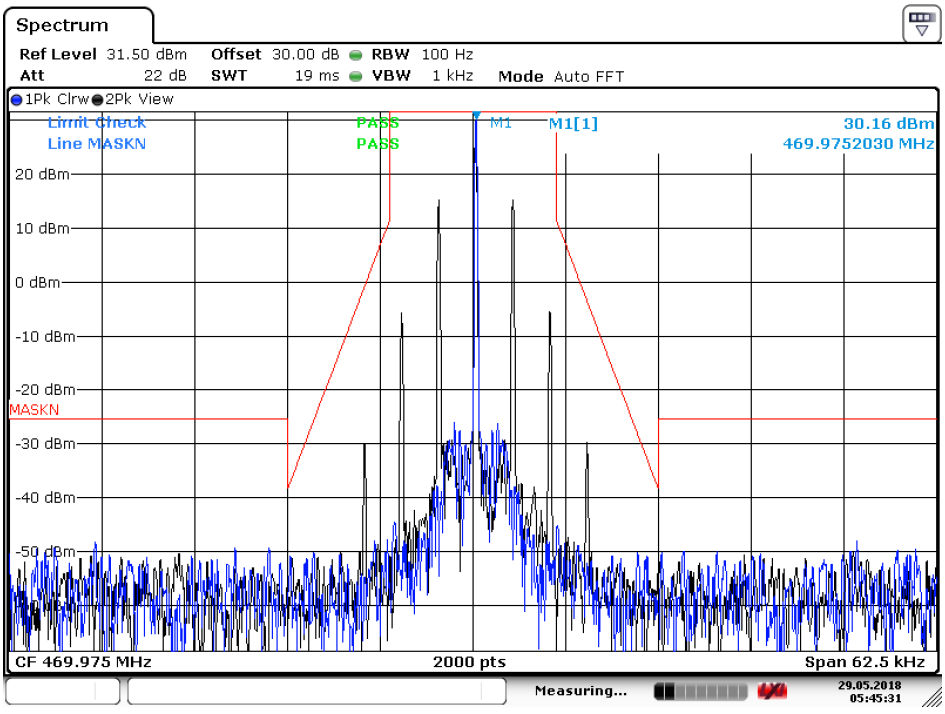
12.5KHz, Analog modulation, Assigned Frequency:469.975MHz, High Power



Date: 29.MAY.2018 11:10:52

12.5KHz, Analog modulation, Assigned Frequency:469.975MHz, Low Power



Date: 29.MAY.2018 05:45:31

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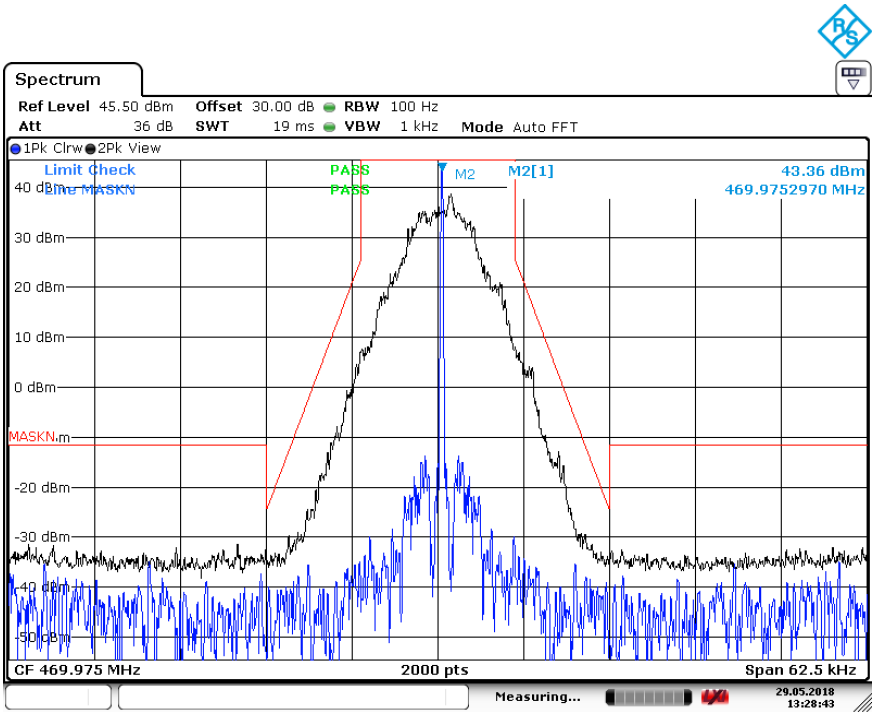
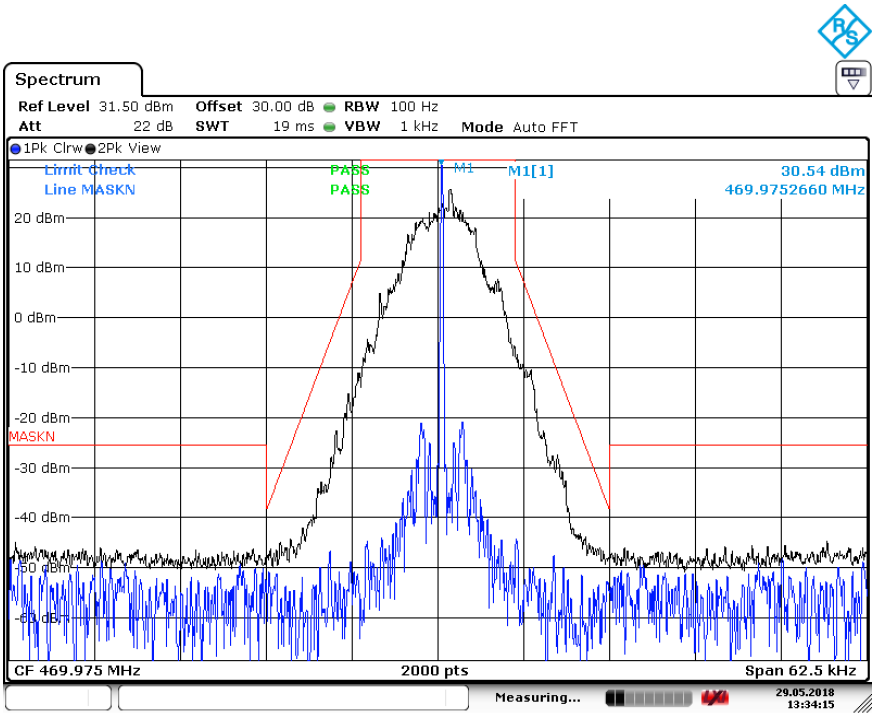
12.5KHz, Digital modulation, Assigned Frequency: 469.975MHz, High Power



Date: 29.MAY.2018 13:28:43

12.5KHz, Digital modulation, Assigned Frequency:469.975MHz, Low Power



Date: 29.MAY.2018 13:34:15

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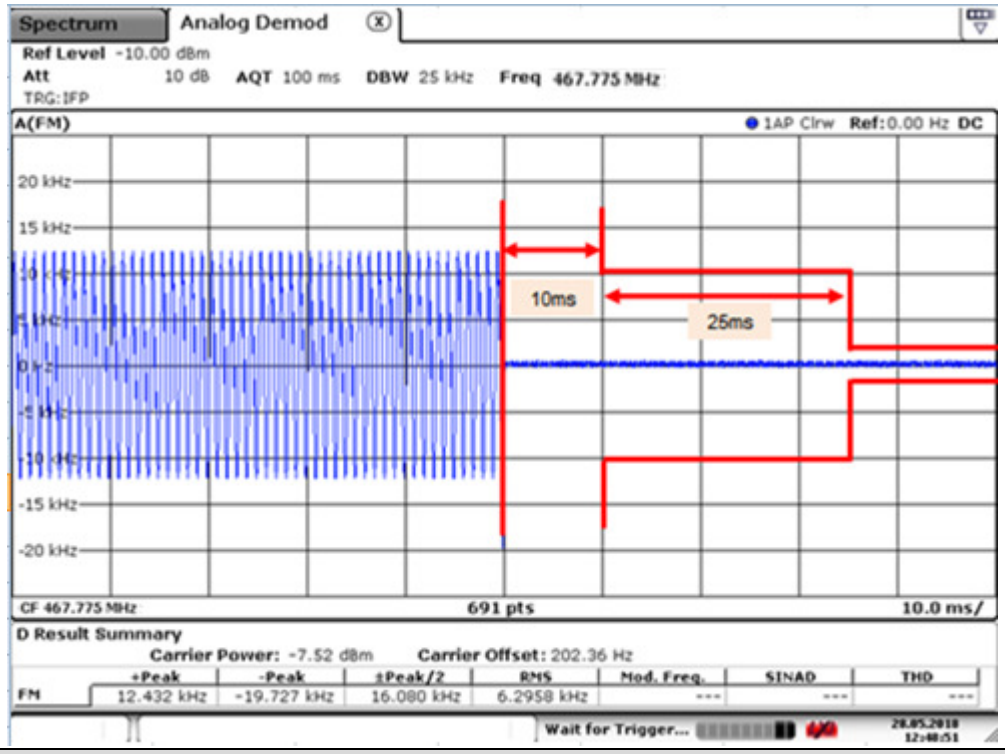
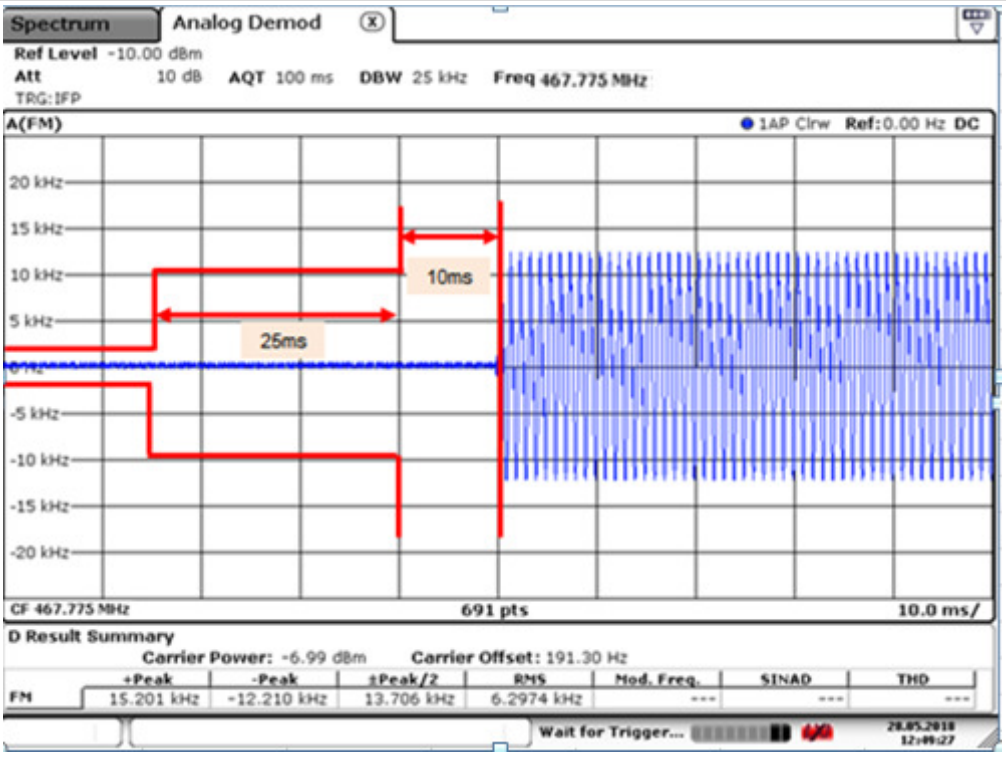
8.Transient Frequency Behavior

12.5KHz, Analog modulation, Assigned Frequency:467.775MHz, Turn On



12.5KHz, Analog modulation, Assigned Frequency:467.775MHz, Turn Off



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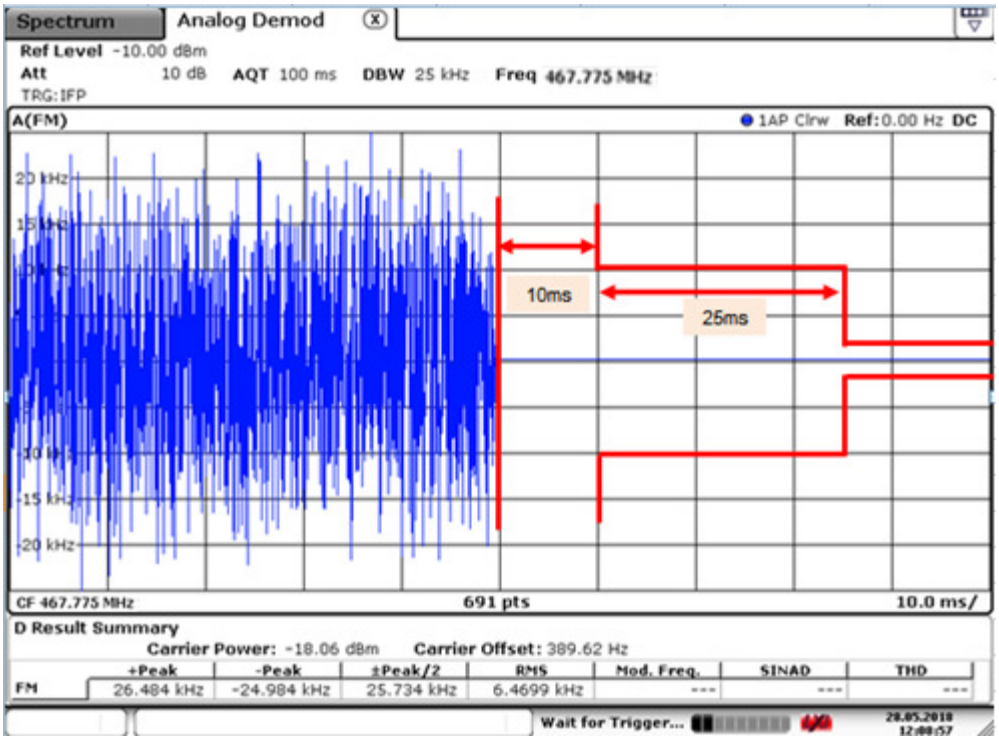
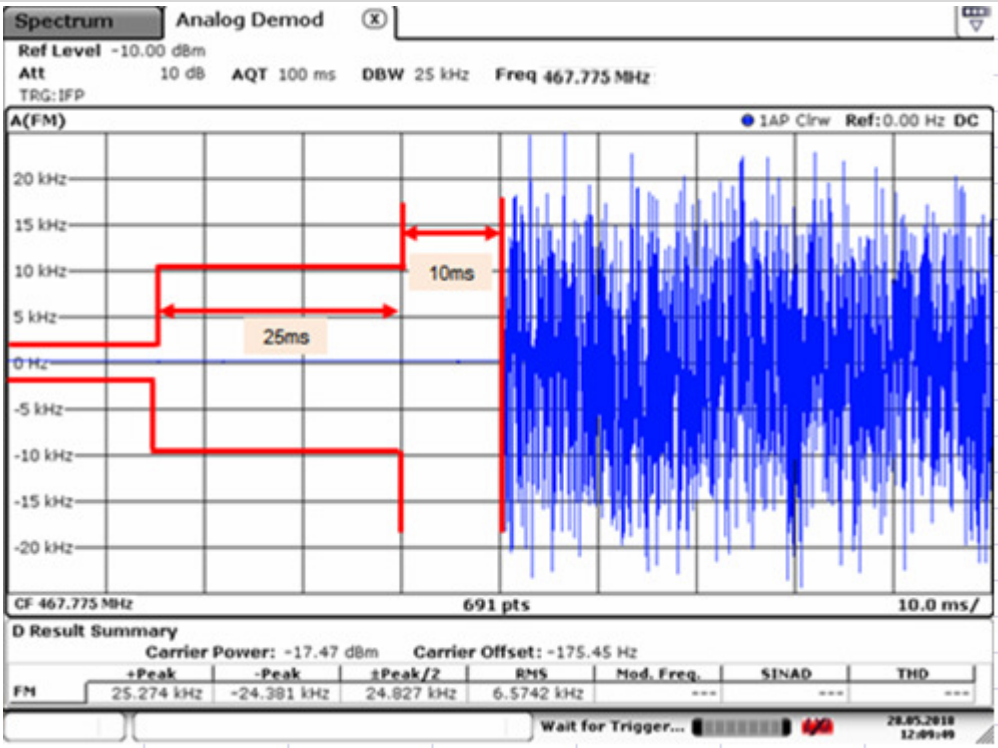
25KHz, Analog modulation, Assigned Frequency:467.775MHz, Turn On



25KHz, Analog modulation, Assigned Frequency:467.775MHz, Turn Off



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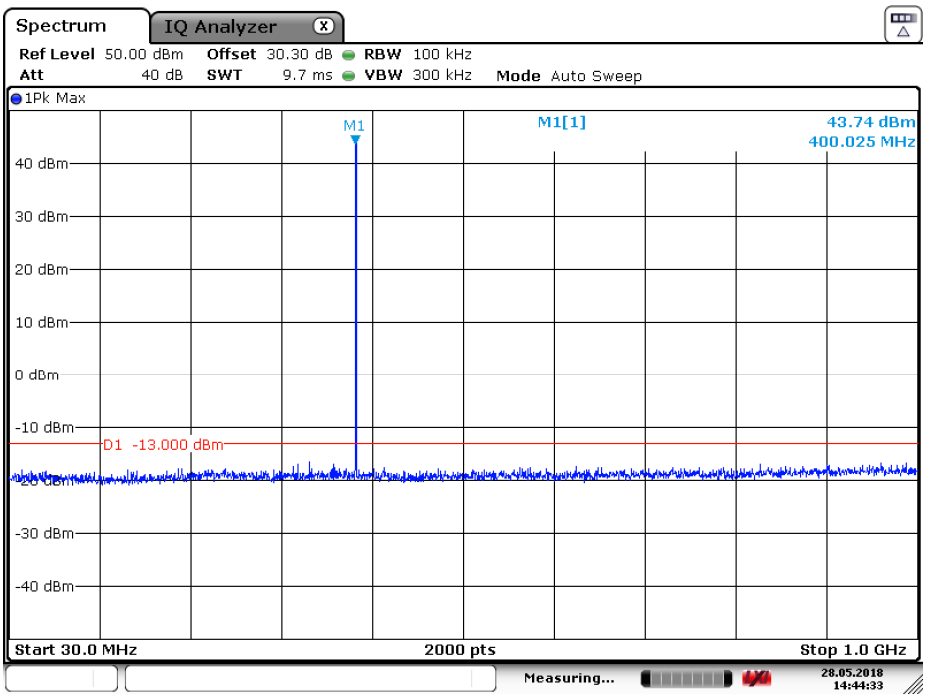
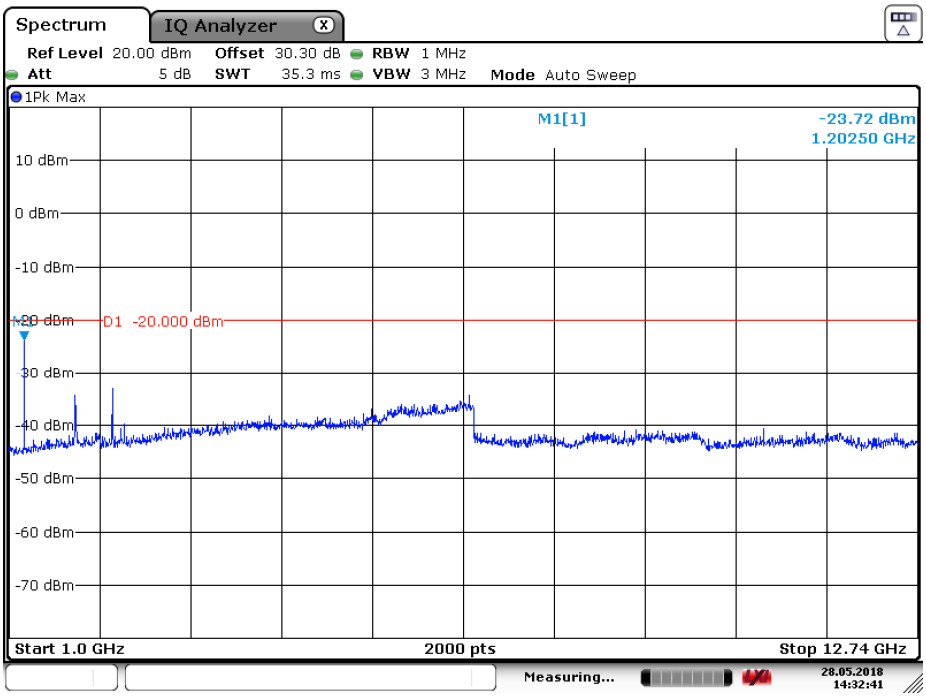
9.Conducted Spurious Emission

--Remark：Add the HPF(>600MHz) for 1G~12.75G Spurious Emission testing

25KHz, Analog modulation, Assigned Frequency:400.025MHz, High Power



Date: 28.MAY.2018 14:44:34



Date: 28.MAY.2018 14:32:42

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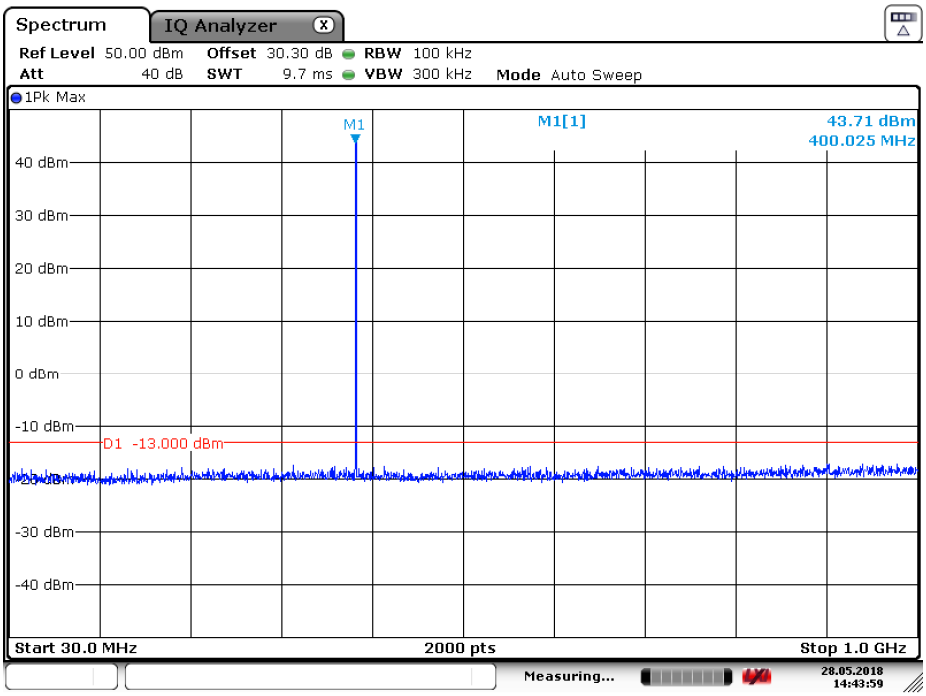
12.5KHz, Analog modulation, Assigned Frequency:400.025MHz, High Power



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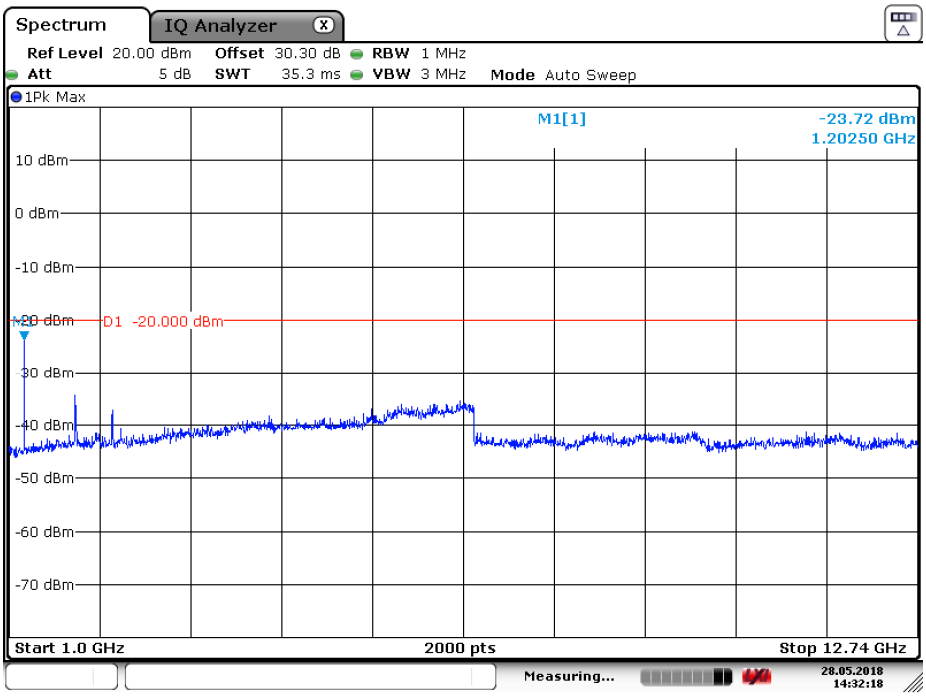

Date: 28.MAY.2018 14:32:18

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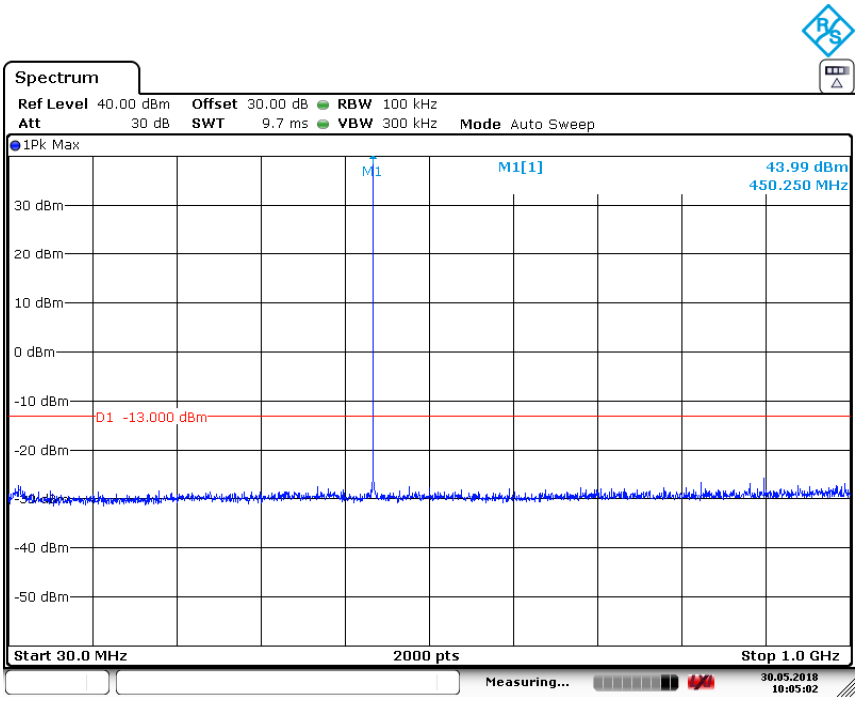
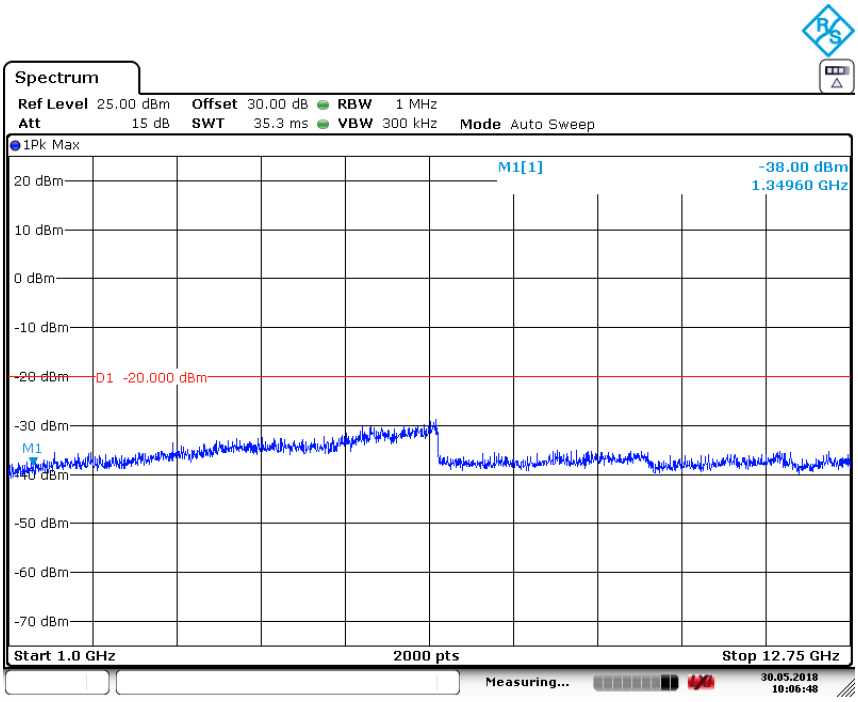
25KHz, Analog modulation, Assigned Frequency:450.025MHz, High Power



Date: 30.MAY.2018 10:05:02



Date: 30.MAY.2018 10:06:48

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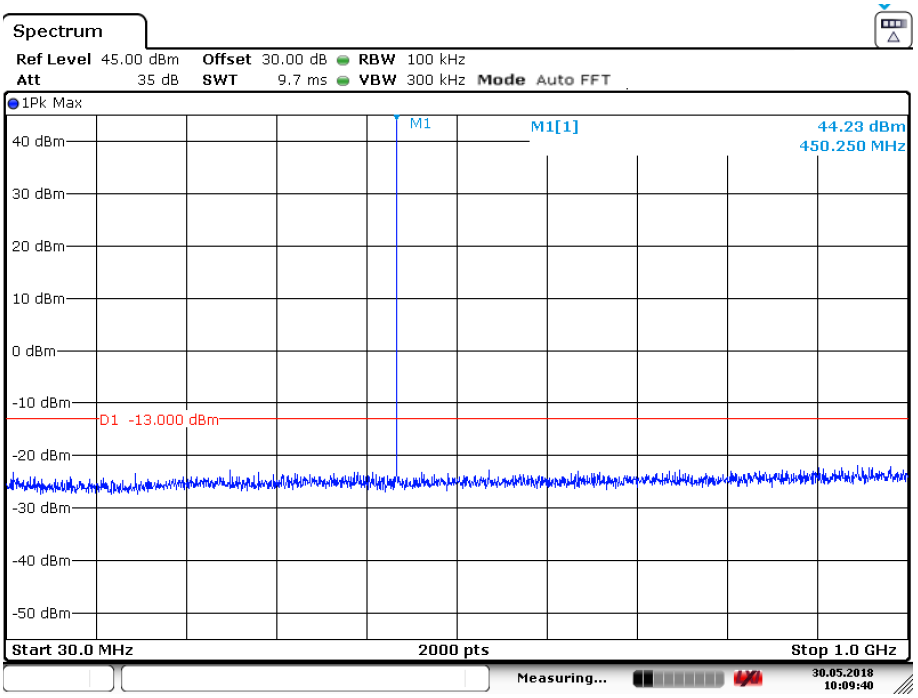
12.5KHz, Analog modulation, Assigned Frequency:450.025MHz, High Power



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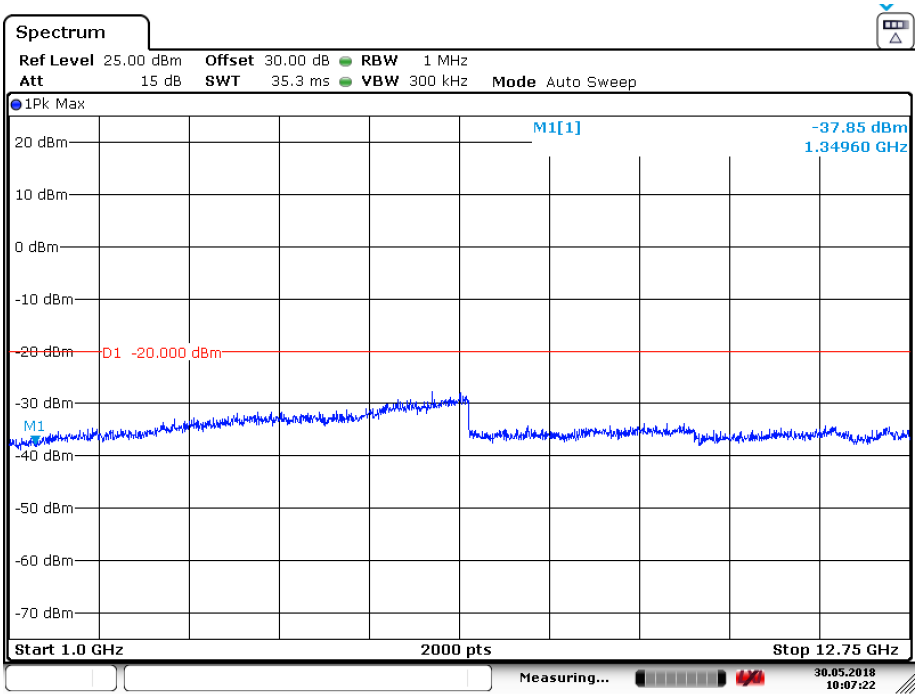

Date: 30.MAY.2018 10:07:22

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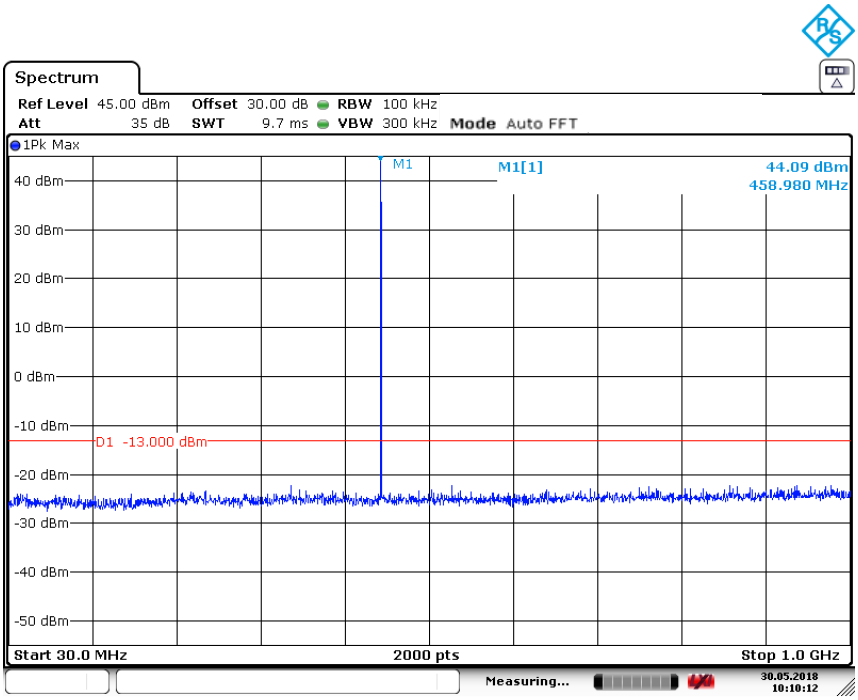
25KHz, Analog modulation, Assigned Frequency:459.125MHz, High Power



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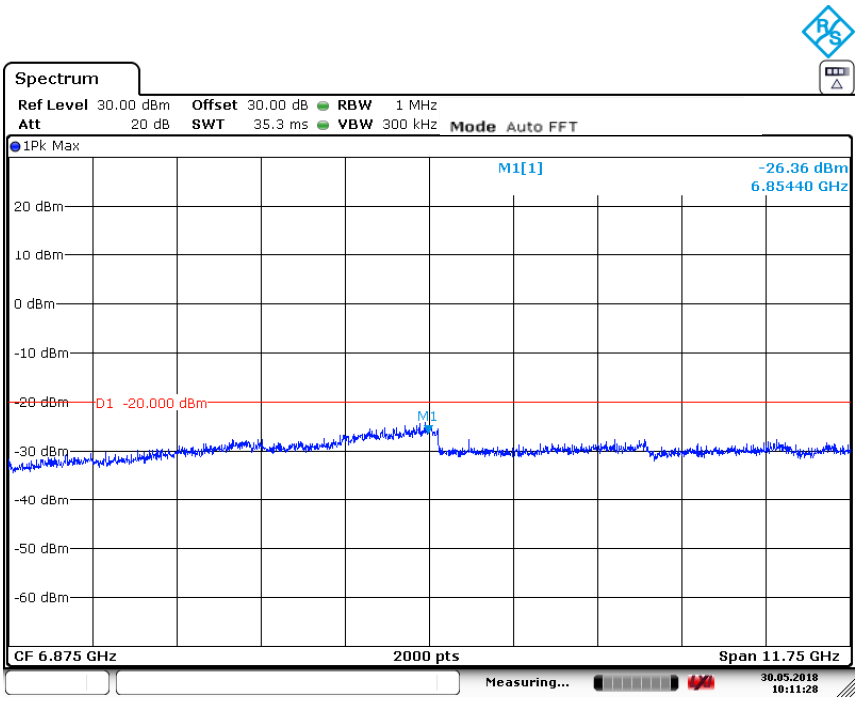

Date: 30.MAY.2018 10:11:29

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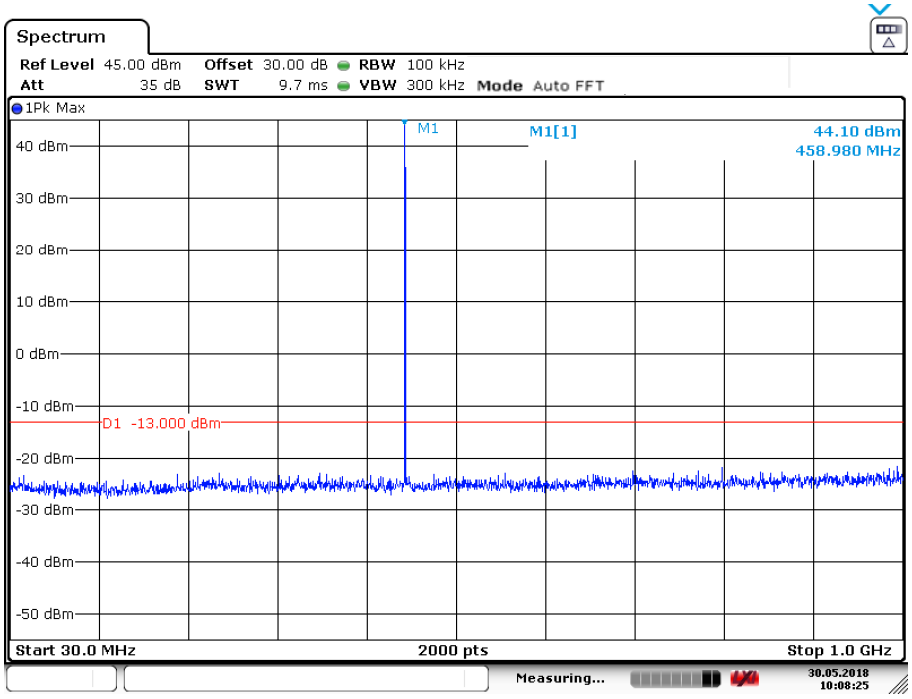
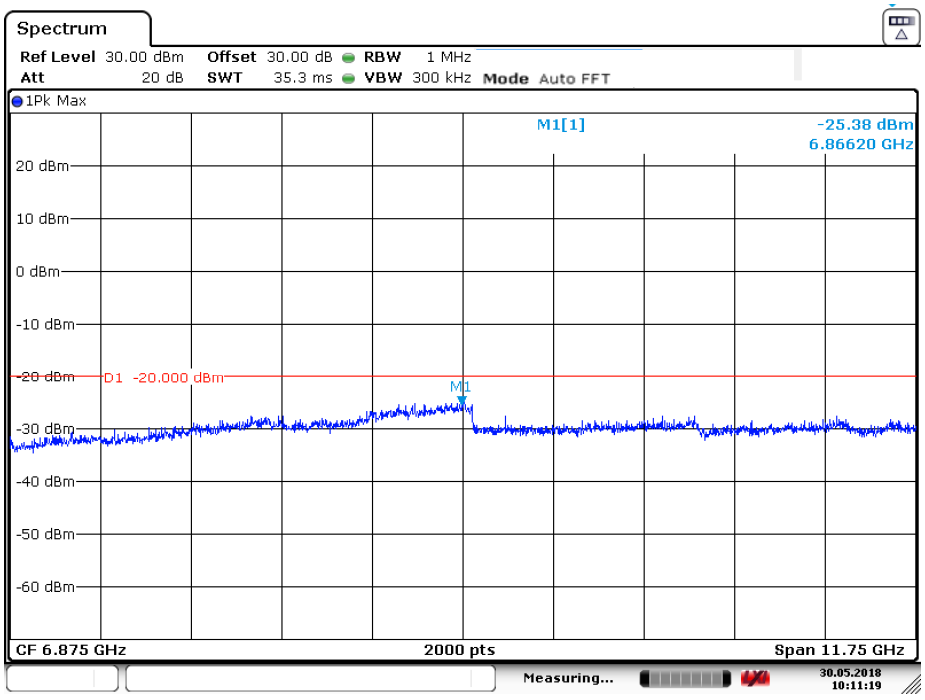
12.5KHz, Analog modulation, Assigned Frequency:459.125MHz, High Power



Date: 30.MAY.2018 10:08:26



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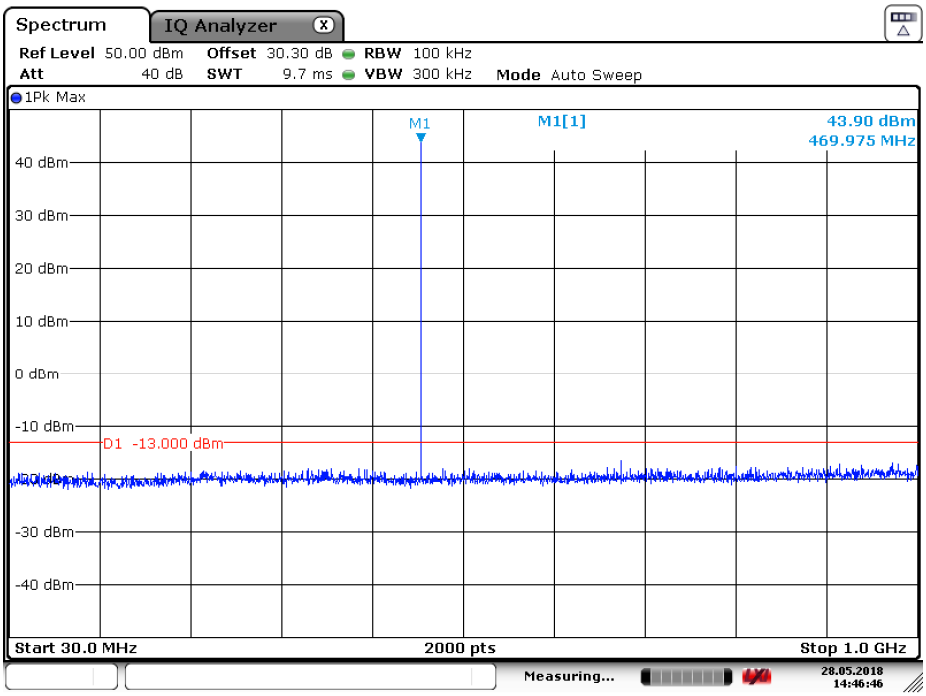
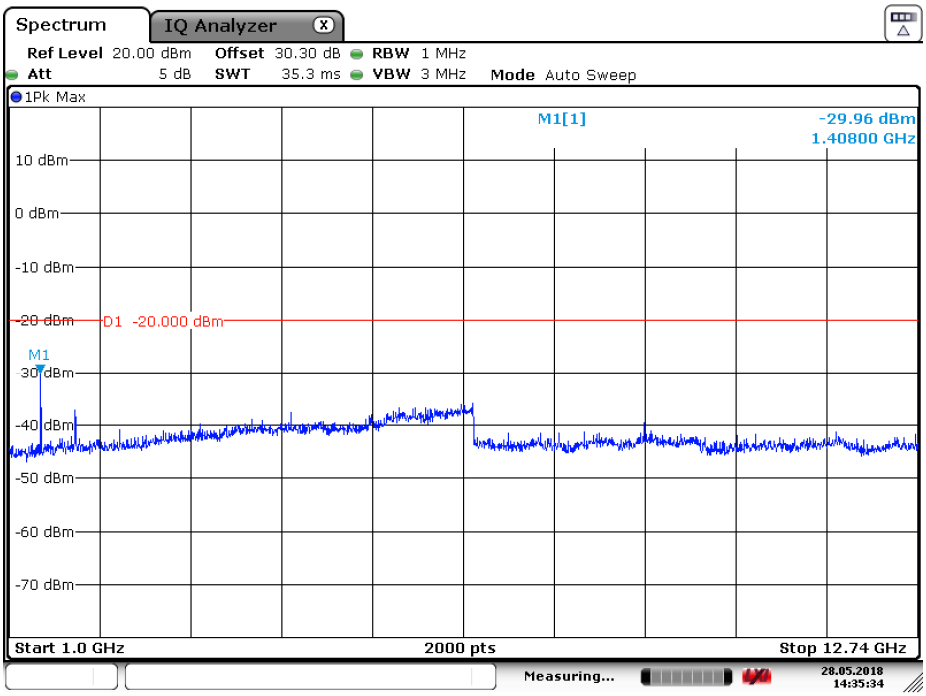
25KHz, Analog modulation, Assigned Frequency:469.975MHz, High Power



Date: 28.MAY.2018 14:46:47



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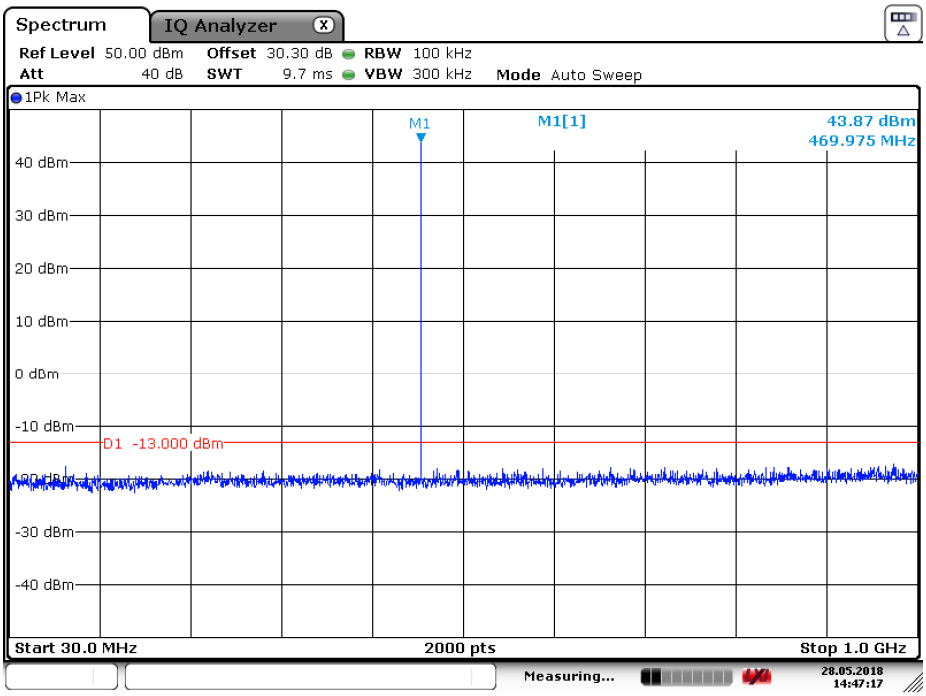
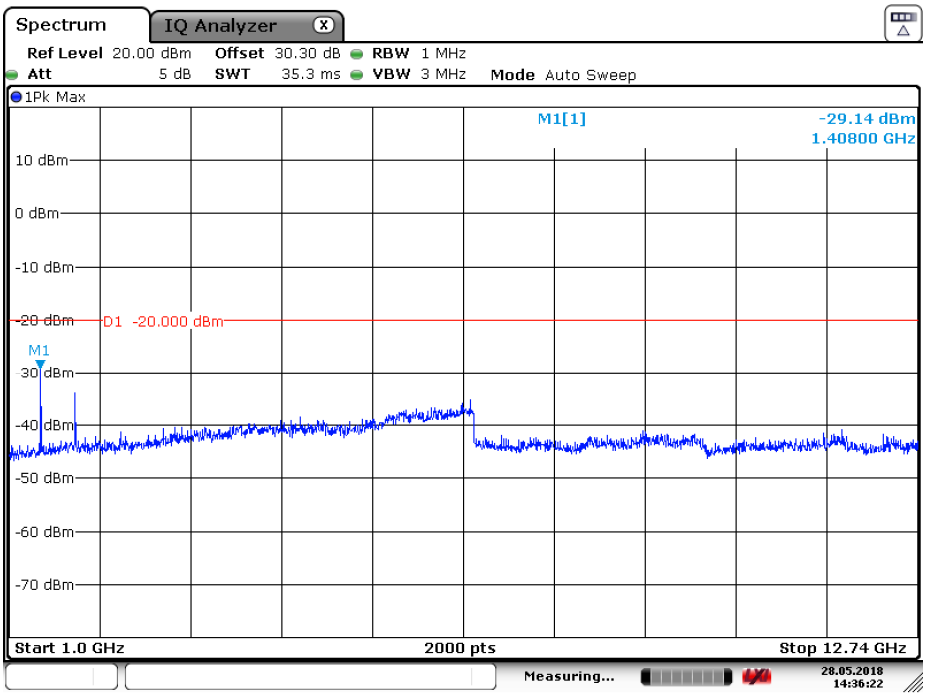
12.5KHz, Analog modulation, Assigned Frequency:469.975MHz, High Power



Date: 28.MAY.2018 14:47:18



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10.Radiated Spurious Emission

12.5KHz, Analog modulation, Assigned Frequency:400.025MHz, High Power				
Frequency MHz	Polarity H/V	Emission Level dBm	Limit dBm	Over Limit dBm
1202.258	H	-26.74	-20.00	-6.74
6800.173	H	-30.86	-20.00	-10.86
7605.976	H	-31.09	-20.00	-11.09
7605.976	V	-24.63	-20.00	-4.63
8003.17	V	-28.84	-20.00	-8.84
8399.702	V	-31.79	-20.00	-11.79

12.5KHz, Analog modulation, Assigned Frequency:450.025MHz, High Power				
Frequency MHz	Polarity H/V	Emission Level dBm	Limit dBm	Over Limit dBm
1287.715	H	-28.08	-20.00	-8.08
7723.018	H	-31.93	-20.00	-11.93
8147.034	H	-35.8	-20.00	-15.8
1287.715	V	-37.11	-20.00	-17.11
7723.018	V	-30.65	-20.00	-10.65
8147.034	V	-30.65	-20.00	-10.65

12.5KHz, Analog modulation, Assigned Frequency:459.125MHz, High Power				
Frequency MHz	Polarity H/V	Emission Level dBm	Limit dBm	Over Limit dBm
1222.252	H	-26.55	-20.00	-6.55
6793.174	H	-30.67	-20.00	-10.67
7625.936	H	-30.9	-20.00	-10.9
7615.936	V	-24.44	-20.00	-4.44
8033.175	V	-28.65	-20.00	-8.65
8392.704	V	-31.6	-20.00	-11.6

12.5KHz, Analog modulation, Assigned Frequency:469.975MHz, High Power				
Frequency MHz	Polarity H/V	Emission Level dBm	Limit dBm	Over Limit dBm
1287.71	H	-26.5	-20.00	-6.50
7723.013	H	-30.62	-20.00	-10.62
8147.038	H	-30.85	-20.00	-10.85
1287.712	V	-24.39	-20.00	-4.39
7723.014	V	-28.6	-20.00	-8.60
8147.031	V	-31.55	-20.00	-11.55

Note: Margin = Emission level – Limit.

All modes have been tested and we found 12.5KHz bandwidth, analog modulation has the worst test result. Only record the worst test result.

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