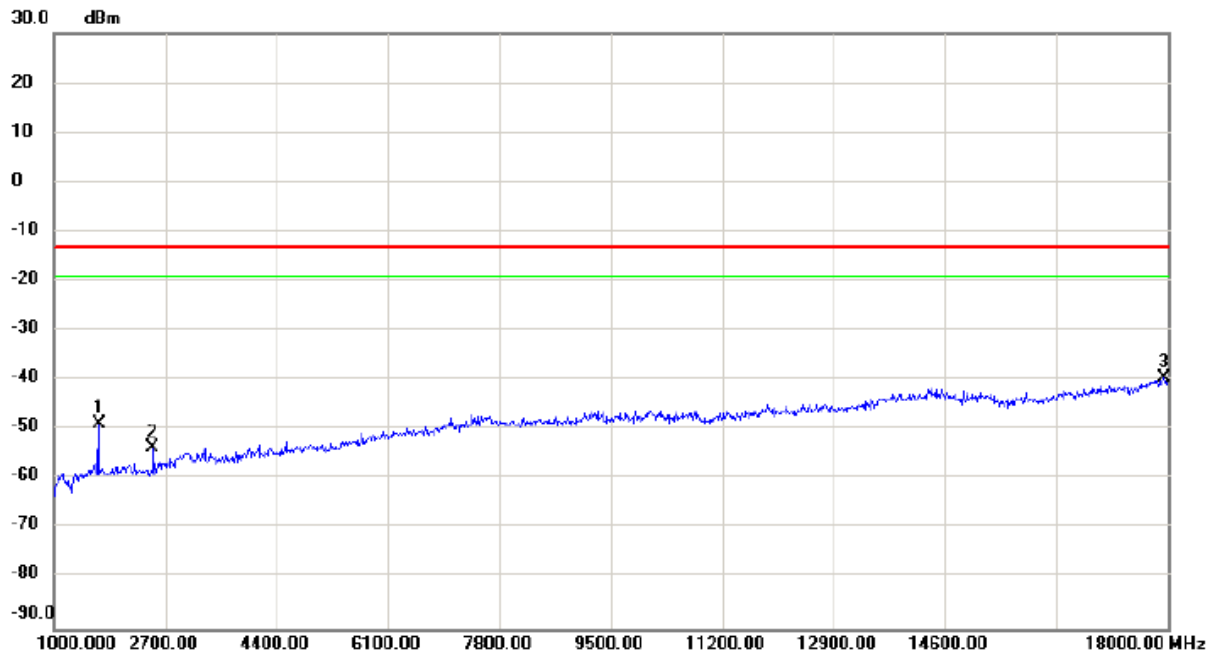


APPENDIX F - RADIATED EMISSION (ABOVE 1GHZ)

Test Mode: GSM850_TX CH190_GSM_with Accessory Devices_Main Antenna

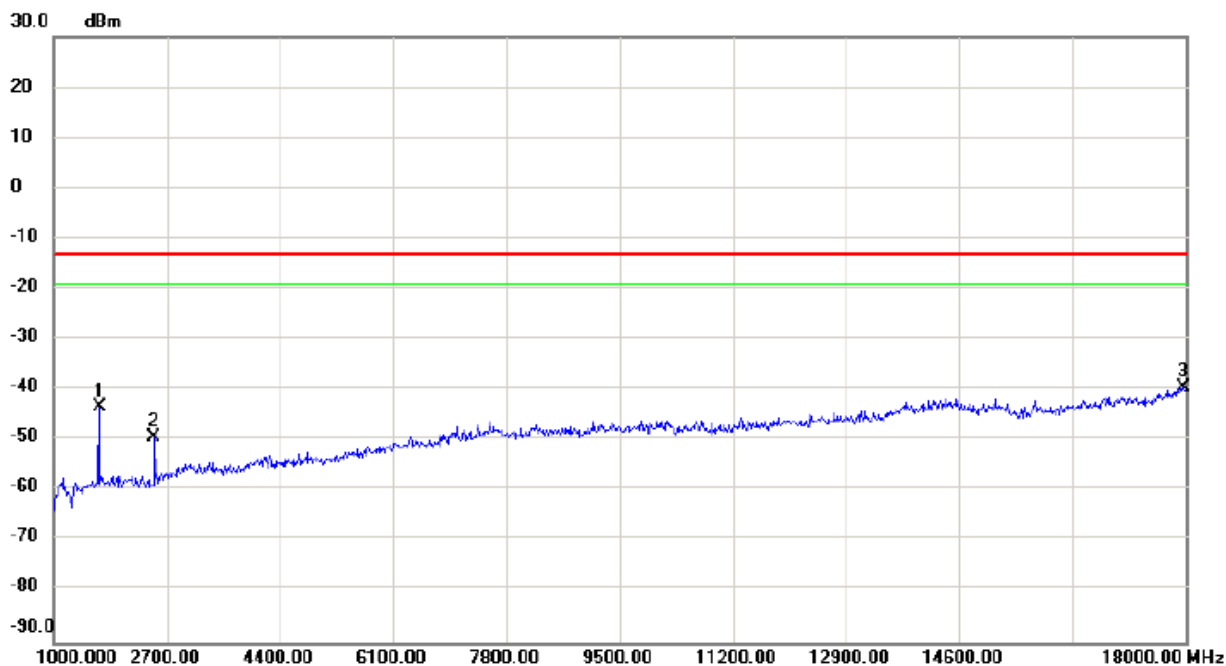
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-44.47	-4.18	-48.65	-13.00	-35.65	peak	
2		2513.000	-50.71	-2.87	-53.58	-13.00	-40.58	peak	
3 *		17932.000	-61.95	22.44	-39.51	-13.00	-26.51	peak	

Test Mode: GSM850_ TX CH190_GSM_with Accessory Devices_Main Antenna

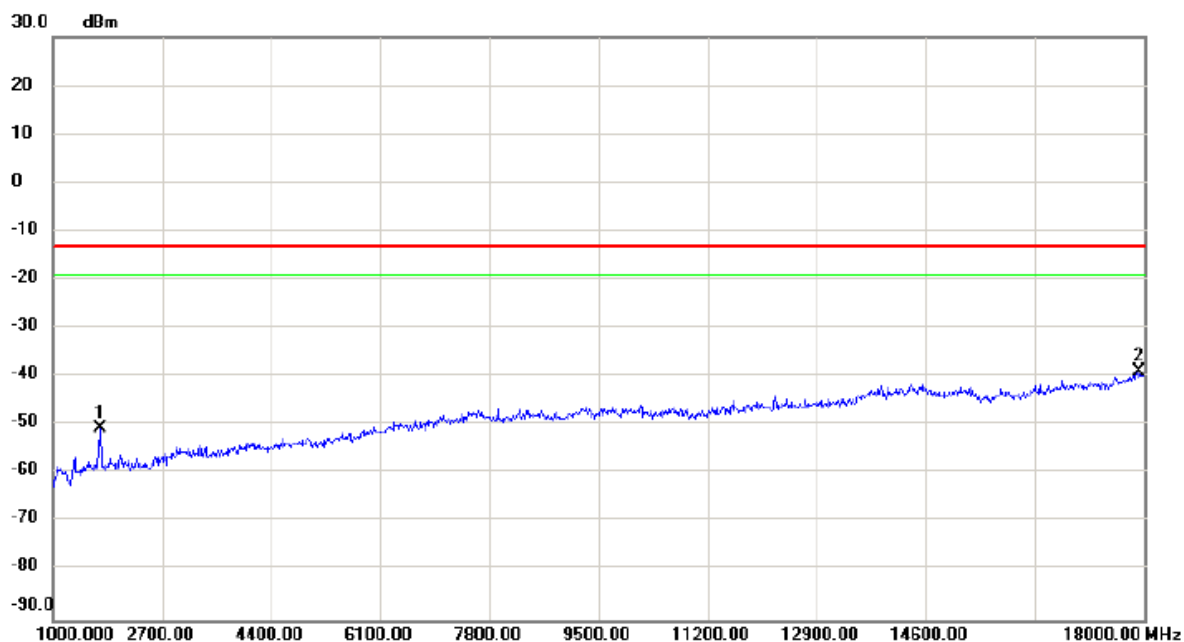
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-39.03	-4.18	-43.21	-13.00	-30.21	peak	
2		2513.000	-46.43	-2.87	-49.30	-13.00	-36.30	peak	
3	*	17966.000	-62.15	22.57	-39.58	-13.00	-26.58	peak	

Test Mode: GSM850_TX CH190_EDGE_with Accessory Devices_Main Antenna

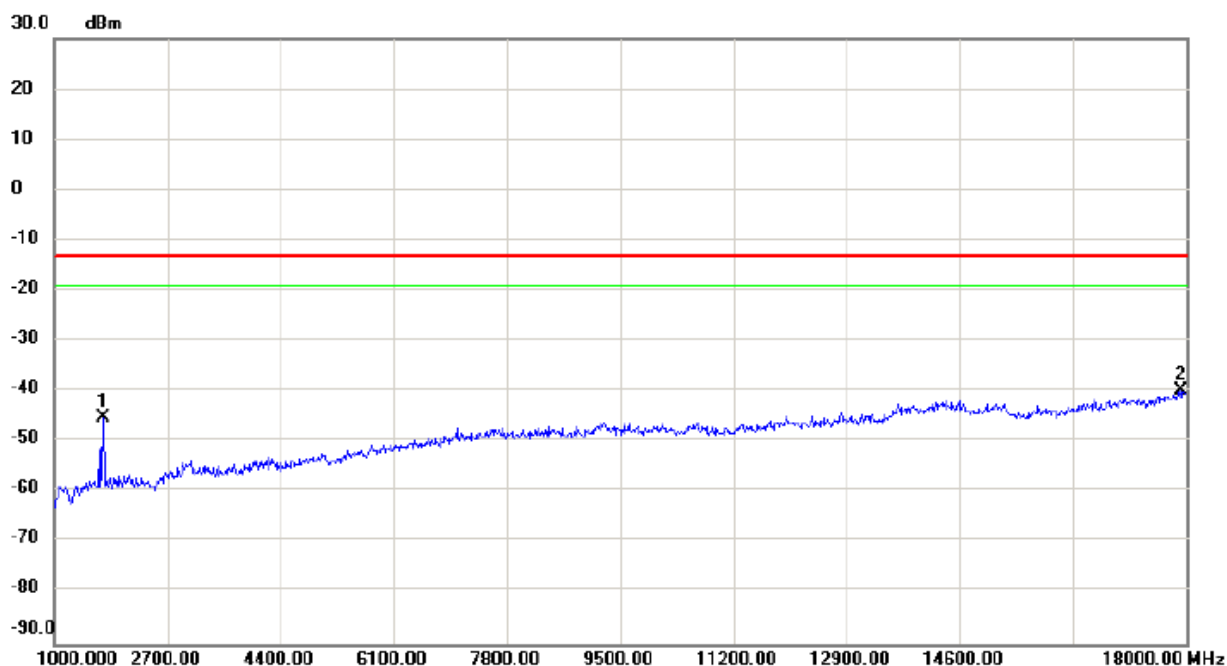
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1731.000	-46.57	-4.01	-50.58	-13.00	-37.58	peak	
2	*	17915.000	-61.32	22.38	-38.94	-13.00	-25.94	peak	

Test Mode: GSM850_TX CH190_EDGE_with Accessory Devices_Main Antenna

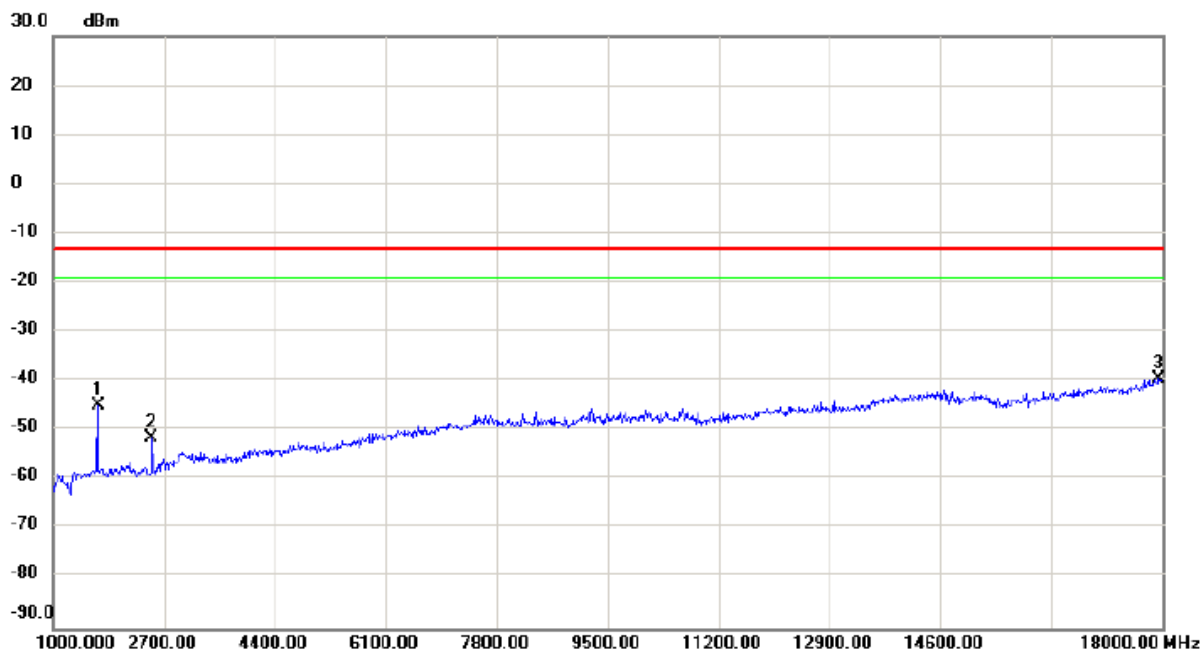
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1731.000	-41.15	-4.01	-45.16	-13.00	-32.16	peak	
2	*	17915.000	-62.04	22.38	-39.66	-13.00	-26.66	peak	

Test Mode: GSM850_TX CH190_GSM_without Accessory Devices_Main Antenna

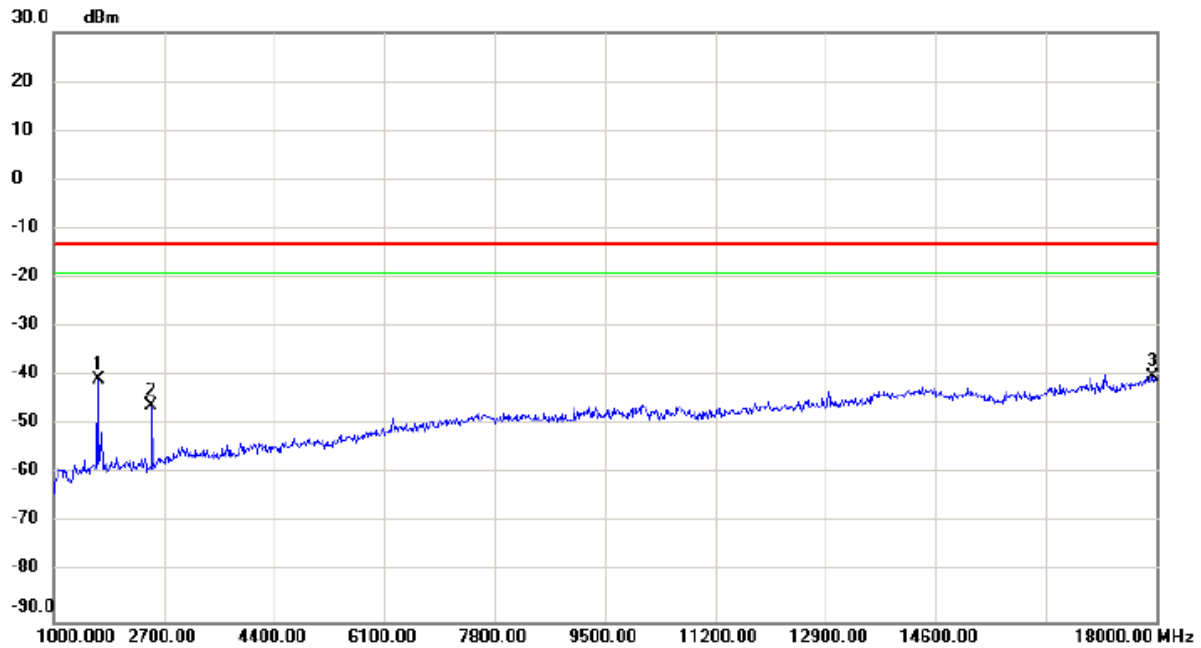
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-40.59	-4.18	-44.77	-13.00	-31.77	peak	
2		2513.000	-48.60	-2.87	-51.47	-13.00	-38.47	peak	
3	*	17949.000	-62.03	22.50	-39.53	-13.00	-26.53	peak	

Test Mode: GSM850_TX CH190_GSM_without Accessory Devices_Main Antenna

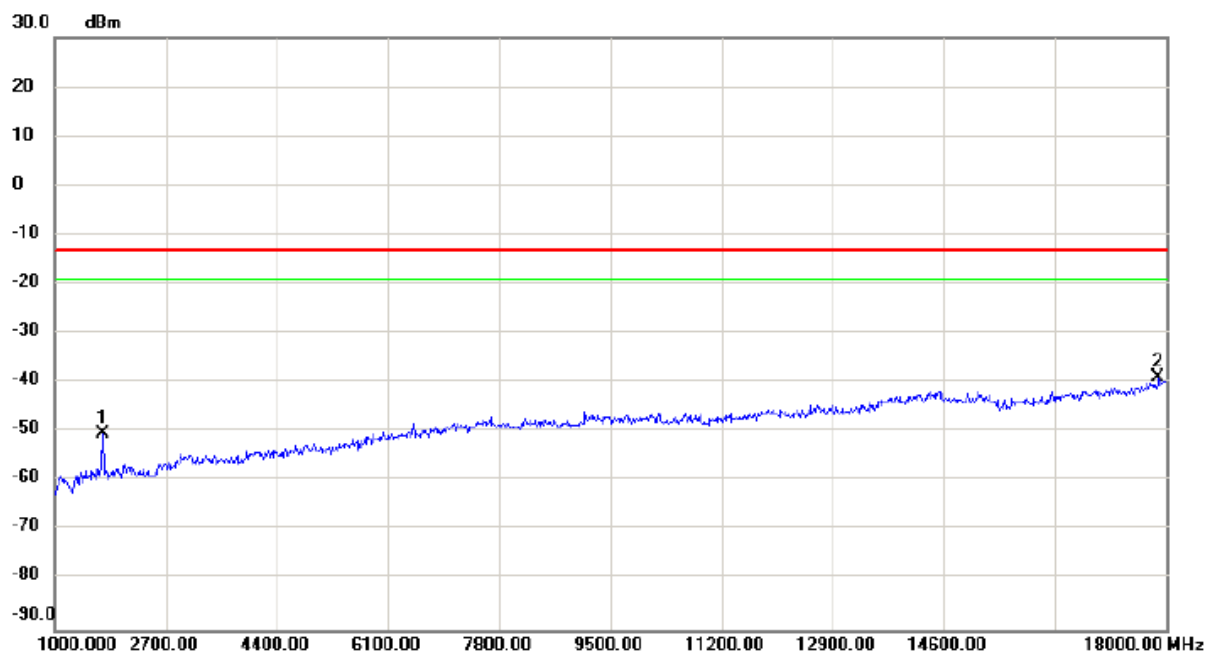
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-36.39	-4.18	-40.57	-13.00	-27.57	peak	
2		2513.000	-43.06	-2.87	-45.93	-13.00	-32.93	peak	
3	*	17949.000	-62.44	22.50	-39.94	-13.00	-26.94	peak	

Test Mode: GSM850_TX CH190_EDGE_without Accessory Devices_Main Antenna

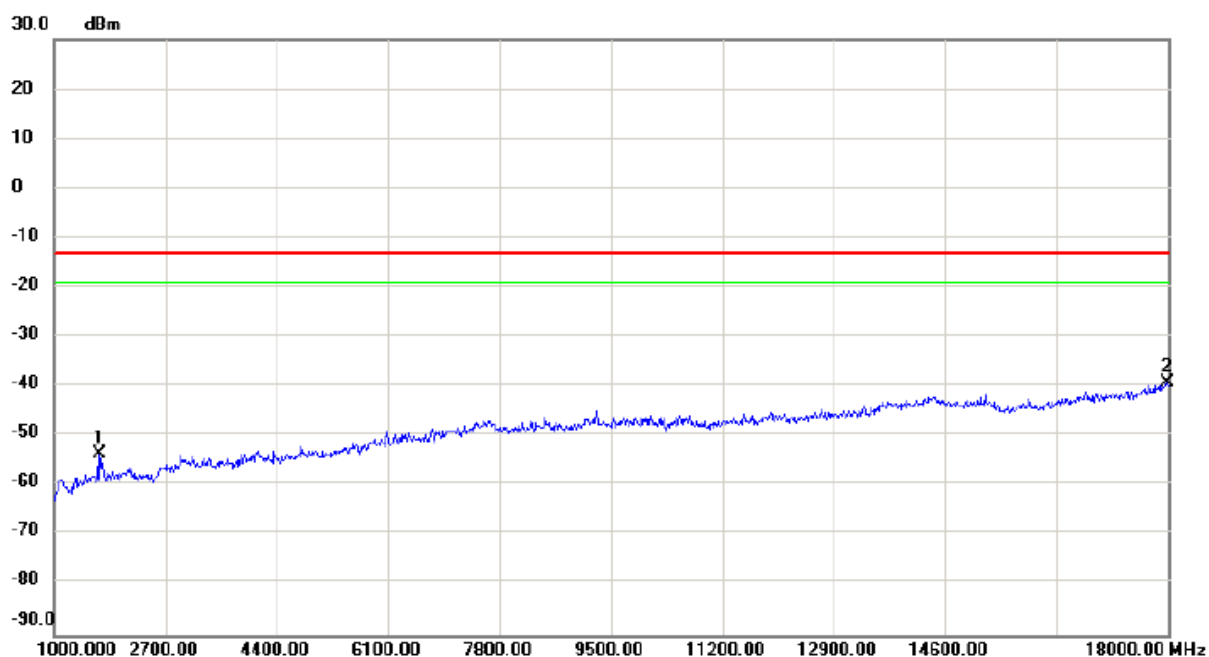
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1731.000	-46.18	-4.01	-50.19	-13.00	-37.19	peak	
2 *		17881.000	-61.10	22.28	-38.82	-13.00	-25.82	peak	

Test Mode: GSM850_ TX CH190_EDGE_without Accessory Devices_Main Antenna

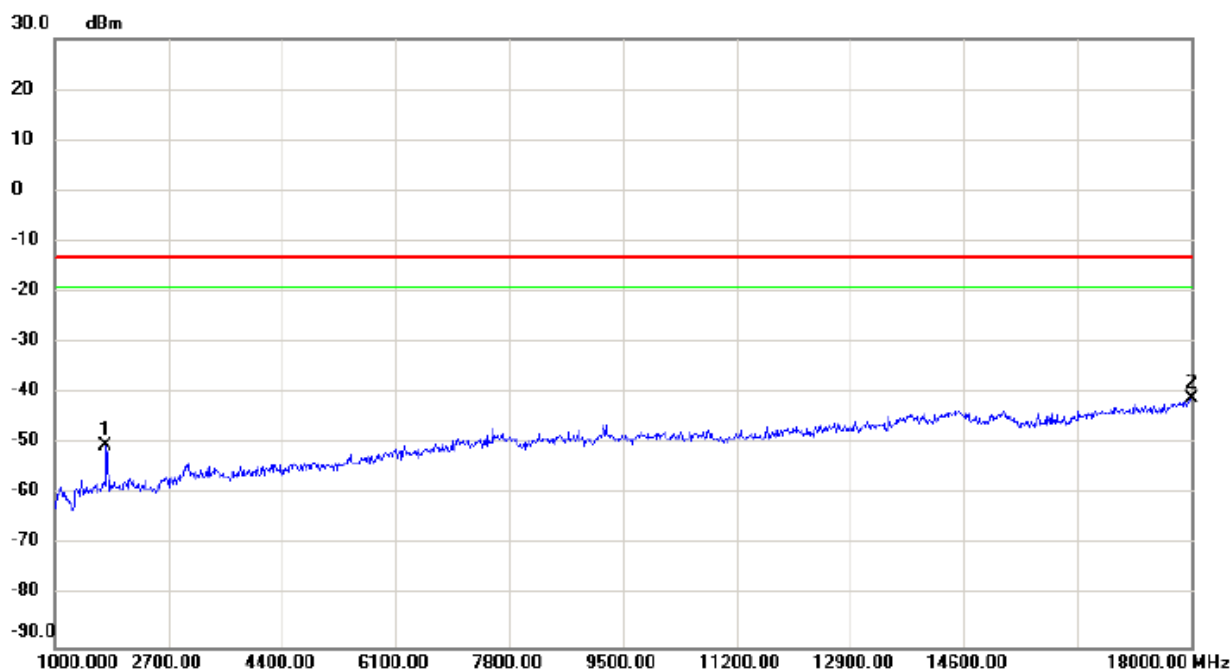
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-49.48	-4.18	-53.66	-13.00	-40.66	peak	
2	*	17983.000	-61.80	22.61	-39.19	-13.00	-26.19	peak	

Test Mode: WCDMA Band V_TX CH4182_Main Antenna

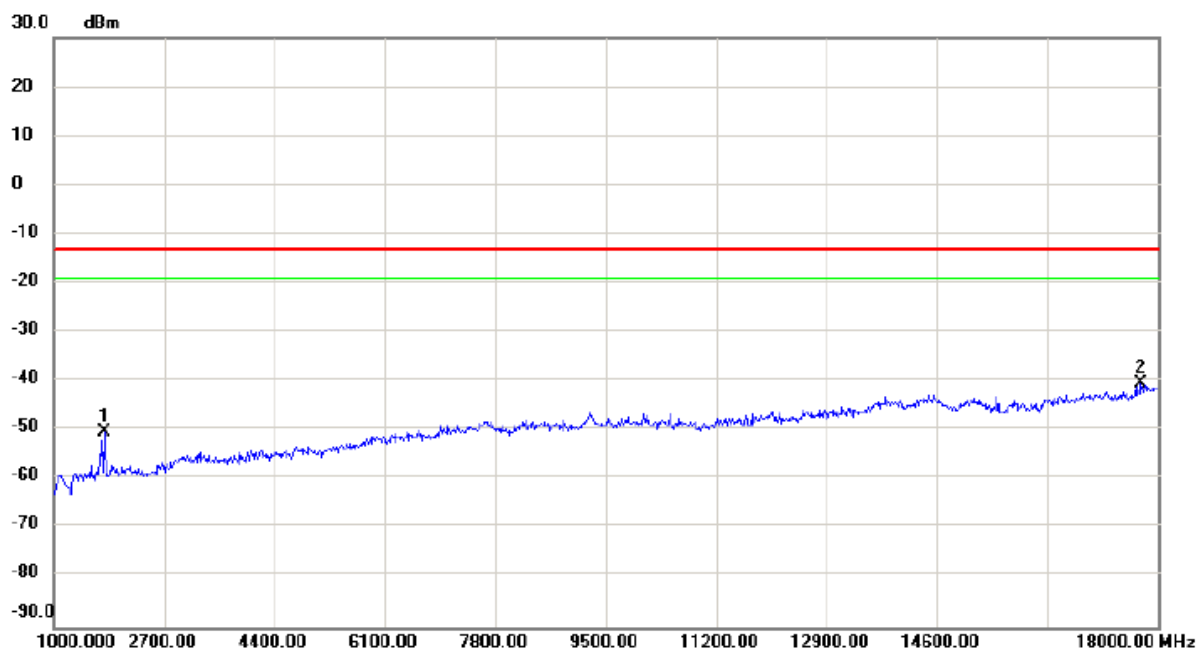
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1765.000	-46.24	-3.89	-50.13	-13.00	-37.13	peak	
2	*	18000.000	-63.51	22.67	-40.84	-13.00	-27.84	peak	

Test Mode: WCDMA Band V_TX CH4182_Main Antenna

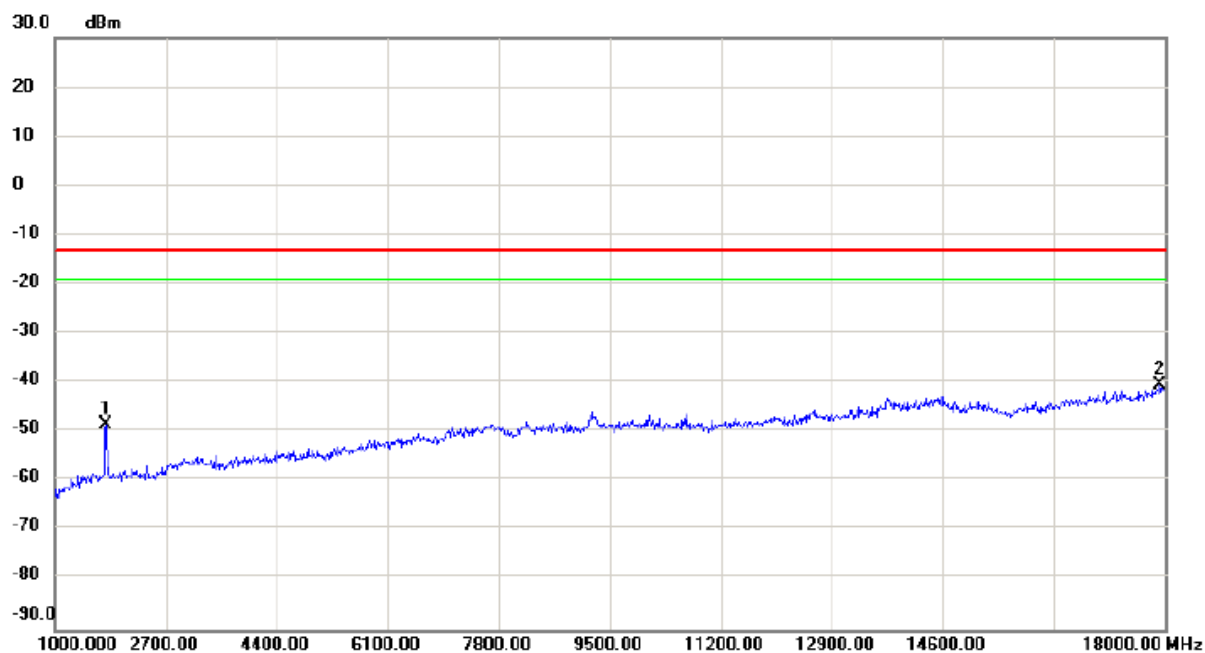
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1773.500	-46.46	-3.86	-50.32	-13.00	-37.32	peak	
2	*	17745.000	-62.20	21.82	-40.38	-13.00	-27.38	peak	

Test Mode: LTE Band 5_TX CH20525_1.4M_Main Antenna

Vertical

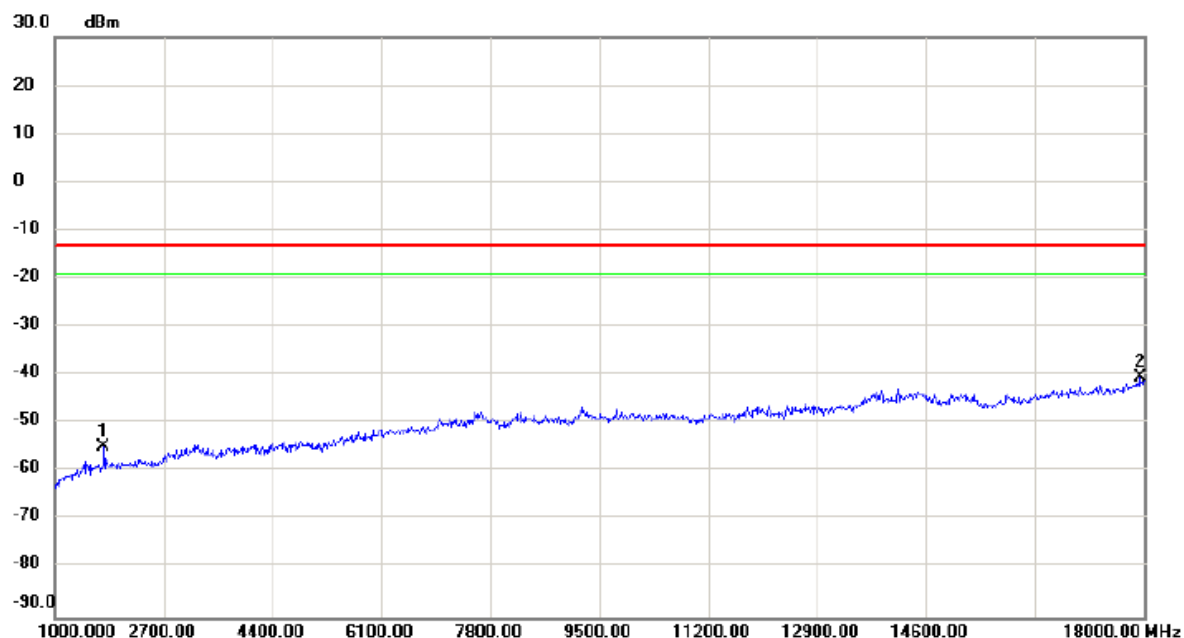


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1782.000	-44.72	-3.82	-48.54	-13.00	-35.54	peak	
2	*	17915.000	-62.85	22.38	-40.47	-13.00	-27.47	peak	

Test Mode:

LTE Band 5_TX CH20525_1.4M_Main Antenna

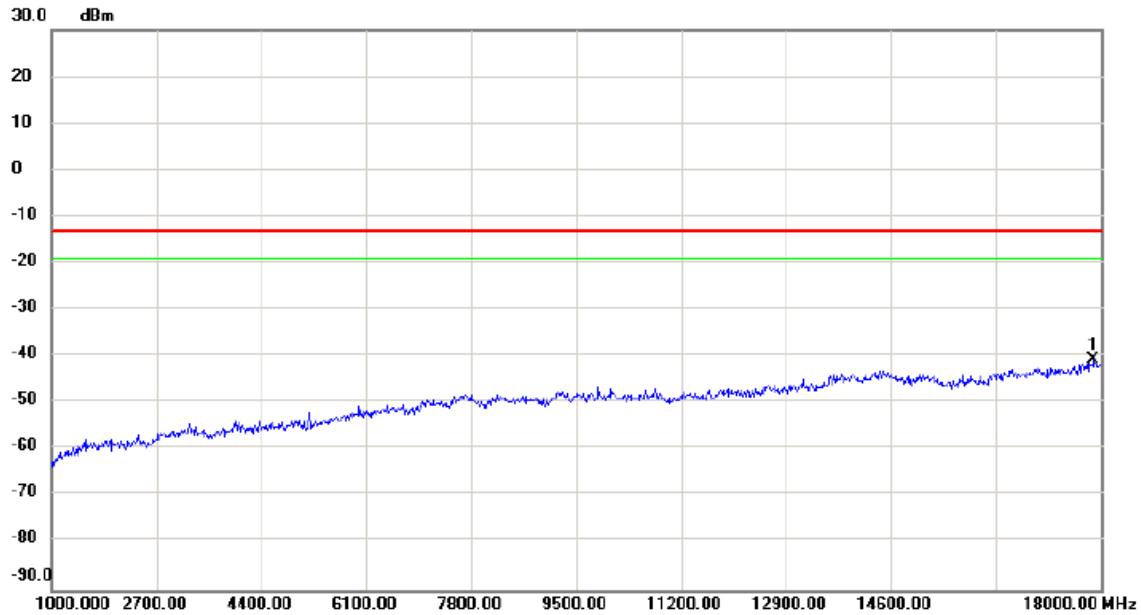
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1765.000	-50.80	-3.89	-54.69	-13.00	-41.69	peak	
2	*	17949.000	-62.99	22.50	-40.49	-13.00	-27.49	peak	

Test Mode: LTE Band 5_TX CH20525_5M_Main Antenna

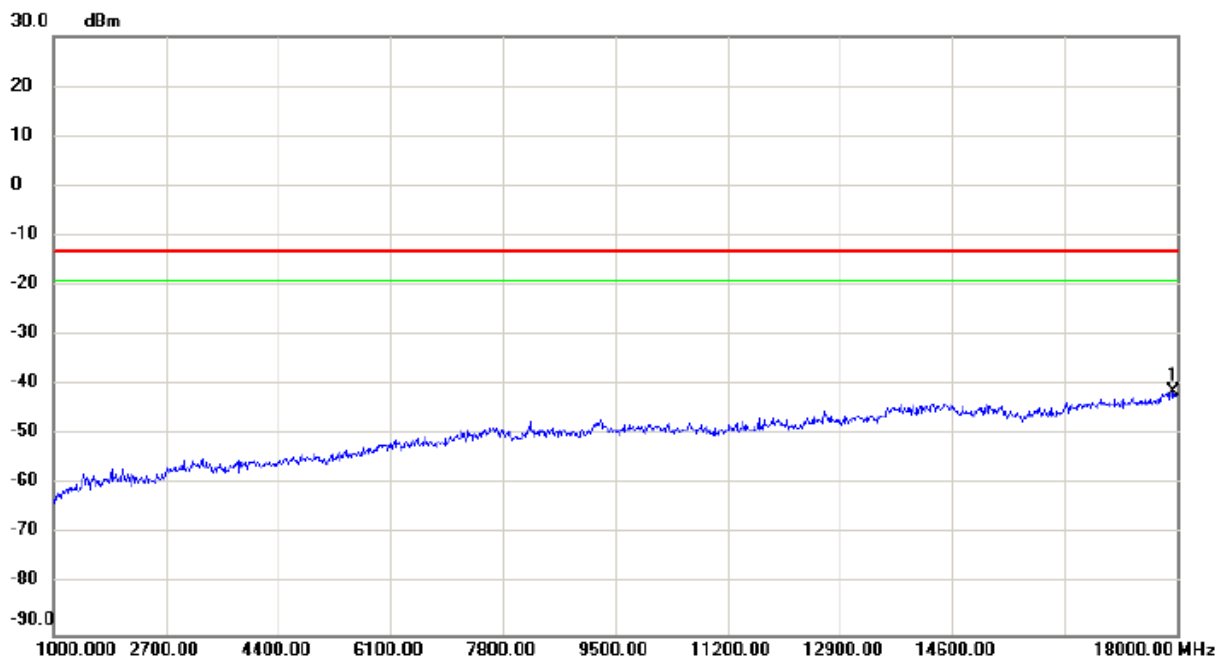
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	17881.000	-63.07	22.28	-40.79	-13.00	-27.79	peak	

Test Mode: LTE Band 5_TX CH20525_5M_Main Antenna

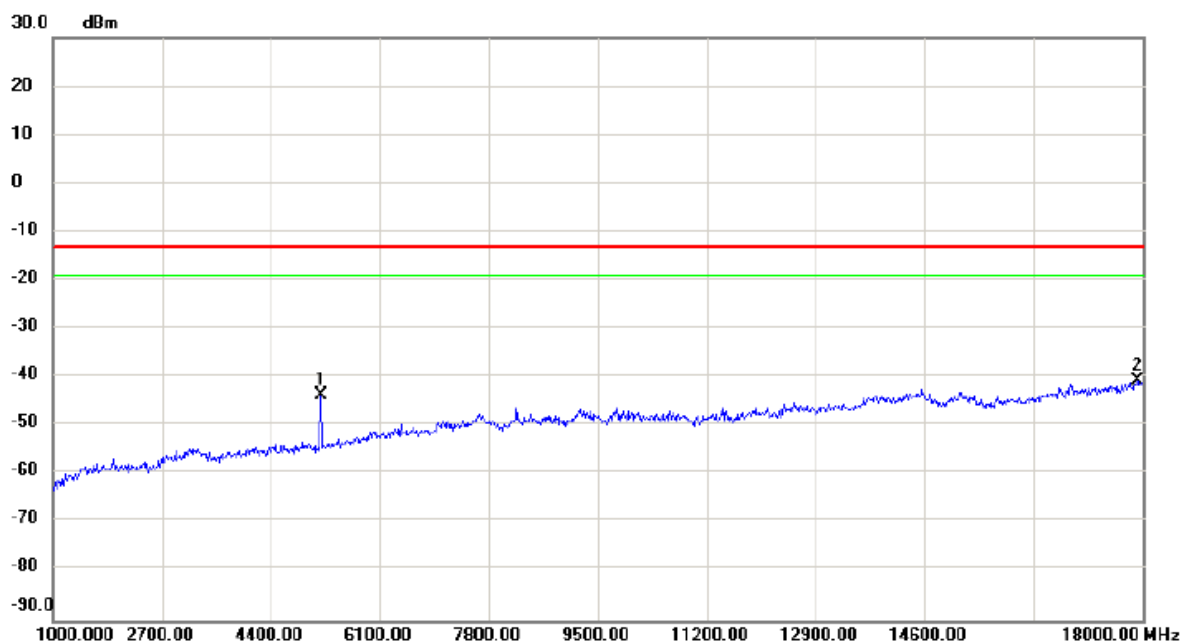
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17949.000	-63.72	22.50	-41.22	-13.00	-28.22	peak	

Test Mode: LTE Band 5_TX CH20525_10M_Main Antenna

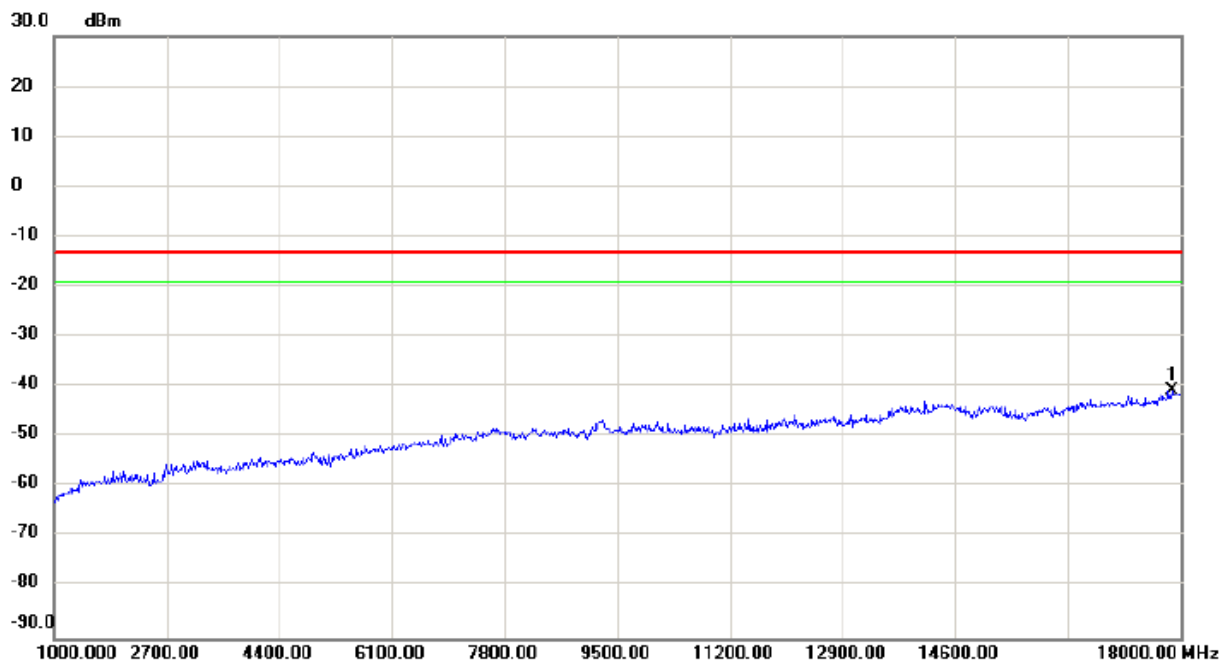
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		5182.000	-48.51	4.97	-43.54	-13.00	-30.54	peak	
2	*	17915.000	-63.00	22.38	-40.62	-13.00	-27.62	peak	

Test Mode: LTE Band 5_TX CH20525_10M_Main Antenna

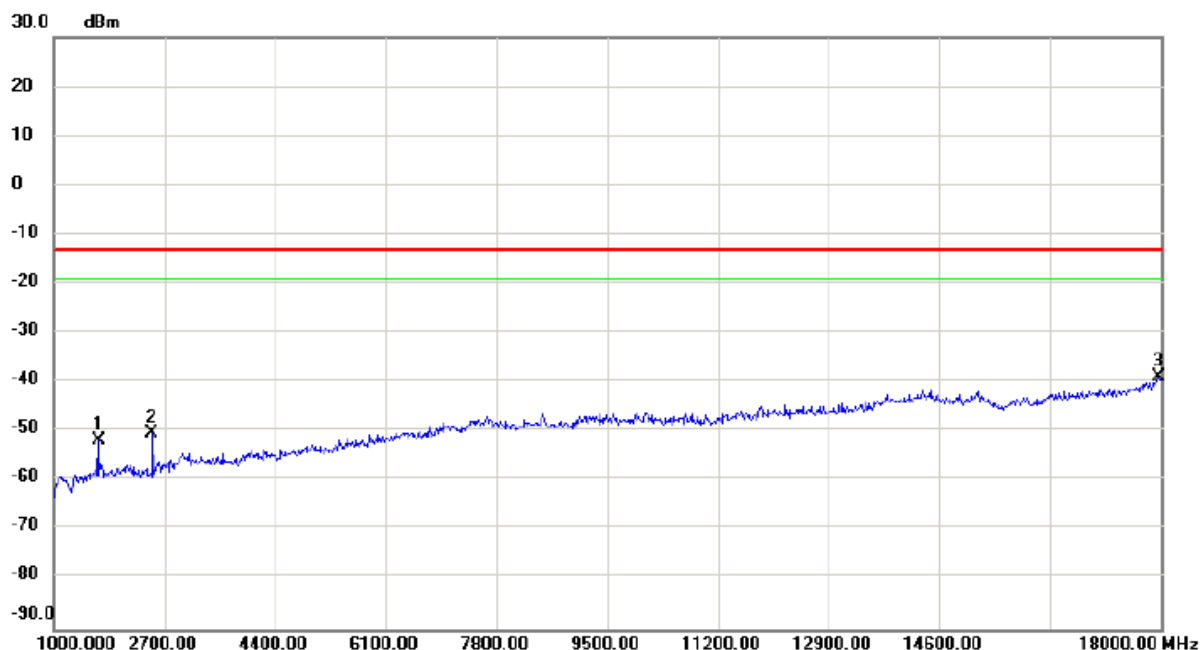
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17864.000	-62.99	22.22	-40.77	-13.00	-27.77	peak	

Test Mode: GSM850_TX CH190_GSM_with Accessory Devices_Second Antenna

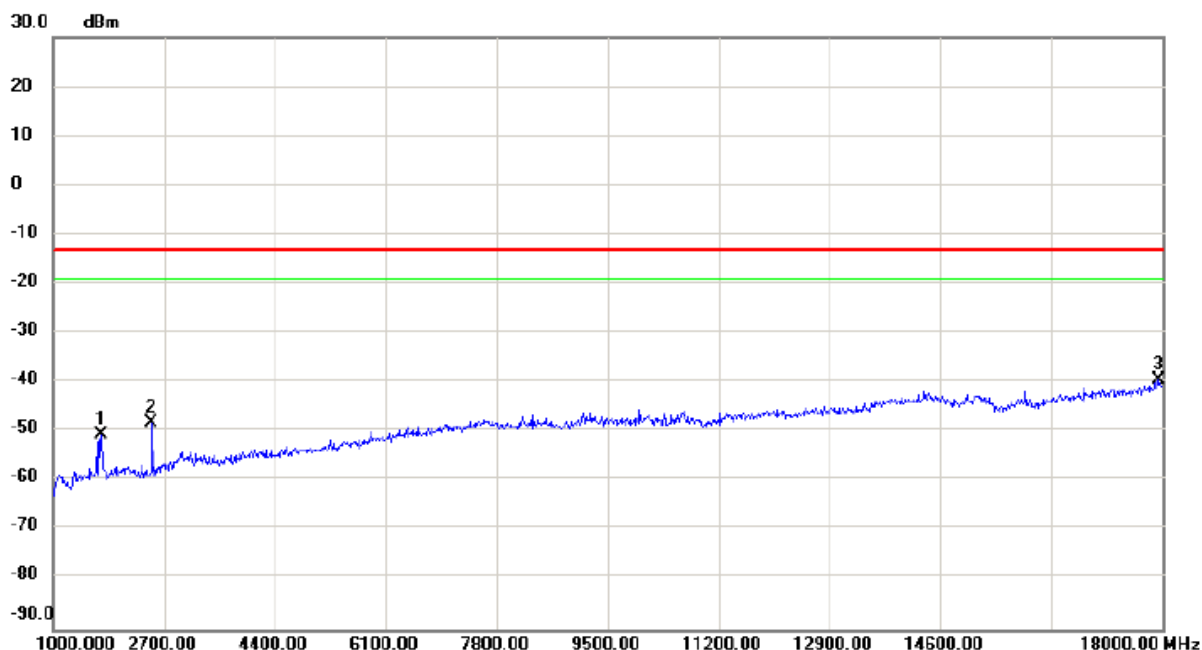
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-47.59	-4.18	-51.77	-13.00	-38.77	peak	
2		2513.000	-47.32	-2.87	-50.19	-13.00	-37.19	peak	
3 *		17966.000	-61.55	22.57	-38.98	-13.00	-25.98	peak	

Test Mode: GSM850_TX CH190_GSM_with Accessory Devices_Second Antenna

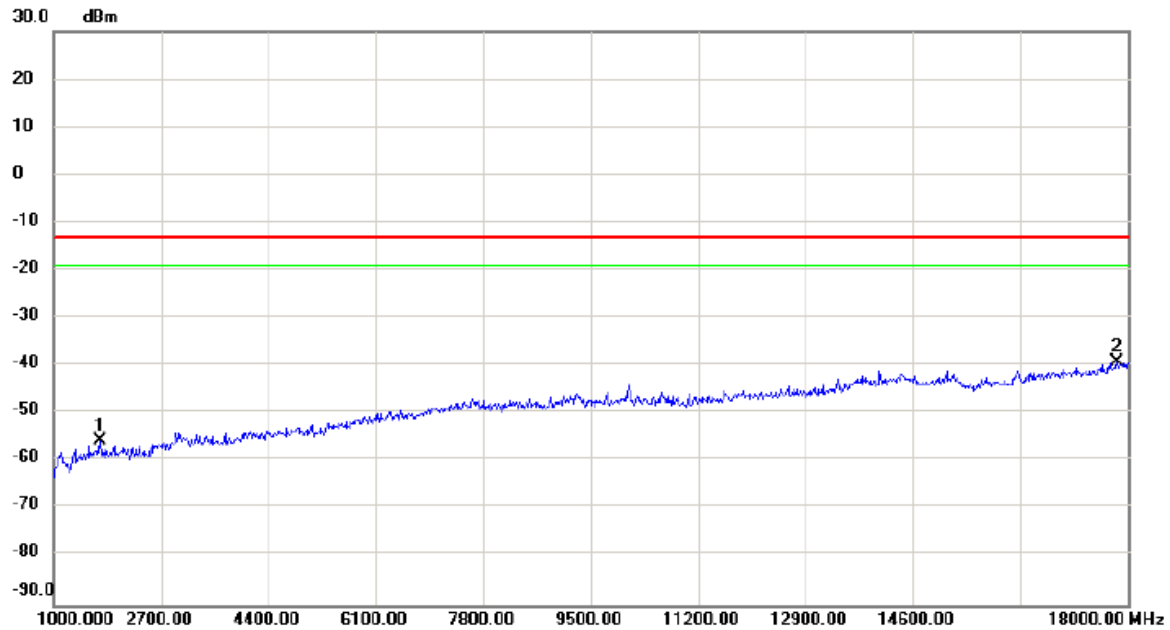
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1731.000	-46.57	-4.01	-50.58	-13.00	-37.58	peak	
2		2513.000	-45.15	-2.87	-48.02	-13.00	-35.02	peak	
3 *		17949.000	-61.98	22.50	-39.48	-13.00	-26.48	peak	

Test Mode: GSM850_ TX CH190_EDGE_with Accessory Devices_Second Antenna

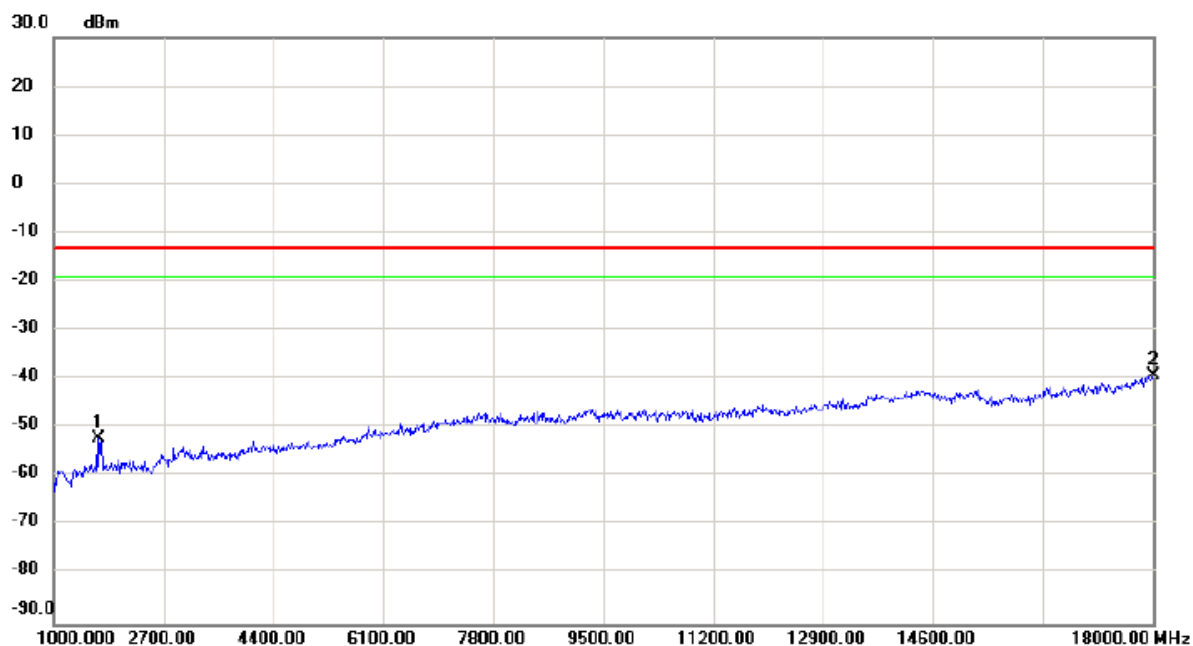
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1731.000	-63.25	7.73	-55.52	-13.00	-42.52	peak	
2	*	17830.000	-73.05	33.85	-39.20	-13.00	-26.20	peak	

Test Mode: GSM850_TX CH190_EDGE_with Accessory Devices_Second Antenna

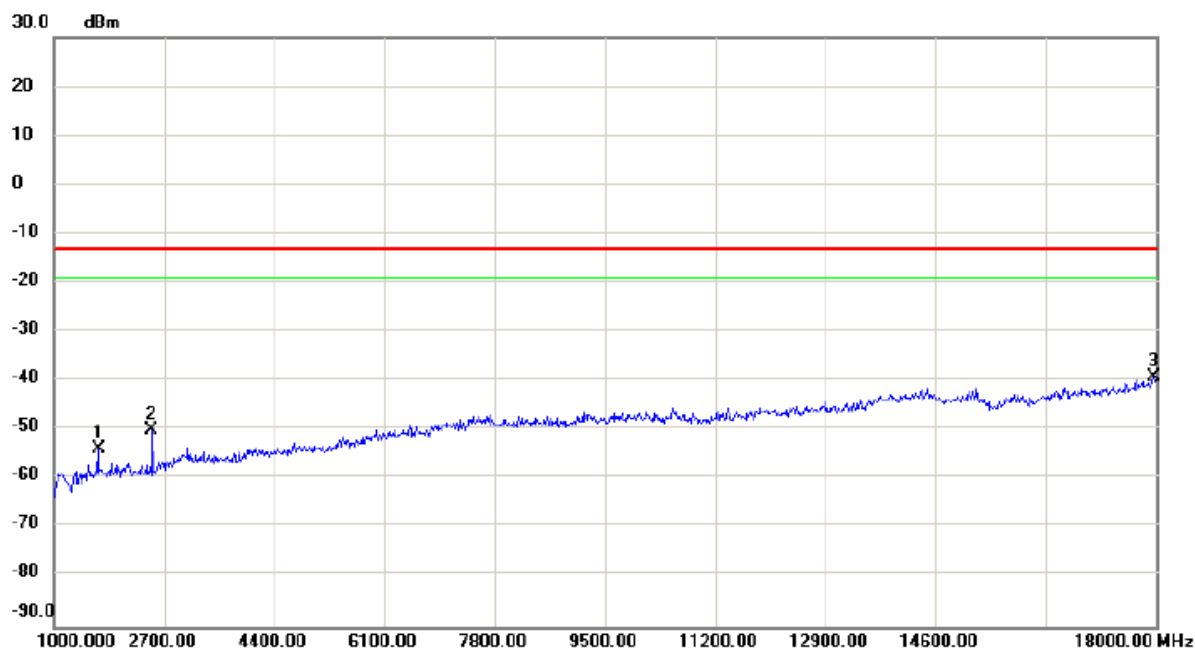
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-59.65	7.56	-52.09	-13.00	-39.09	peak	
2	*	18000.000	-73.46	34.41	-39.05	-13.00	-26.05	peak	

Test Mode: GSM850_ TX CH190_GSM_without Accessory Devices_Second Antenna

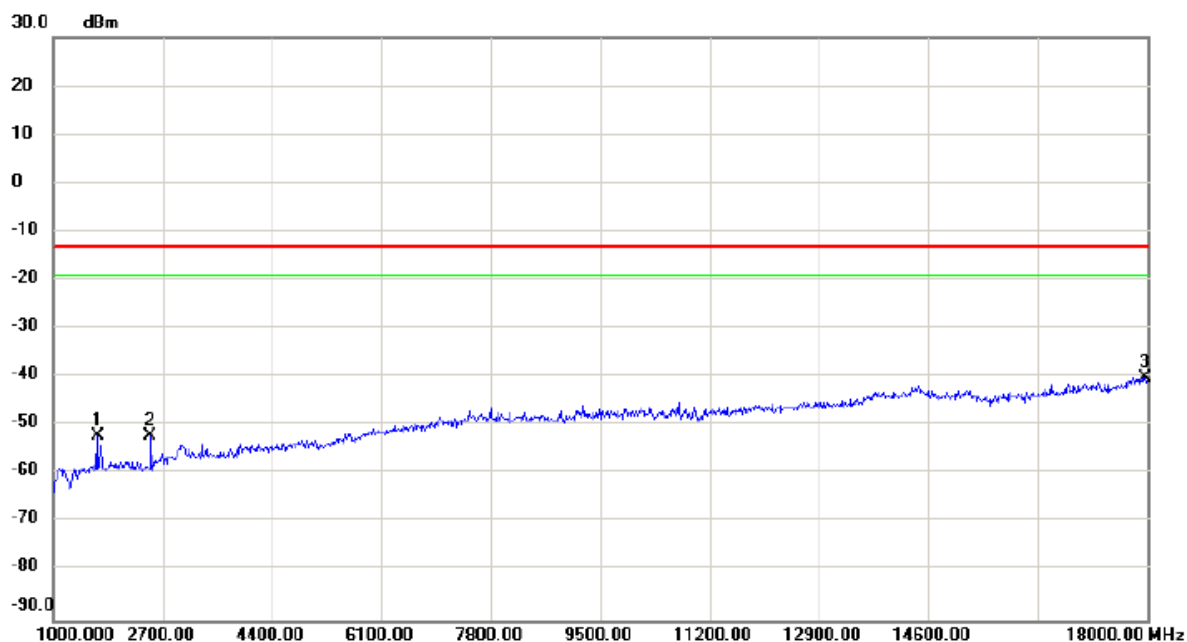
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-49.71	-4.18	-53.89	-13.00	-40.89	peak	
2		2513.000	-47.07	-2.87	-49.94	-13.00	-36.94	peak	
3	*	17966.000	-61.84	22.57	-39.27	-13.00	-26.27	peak	

Test Mode: GSM850_ TX CH190_GSM_without Accessory Devices_Second Antenna

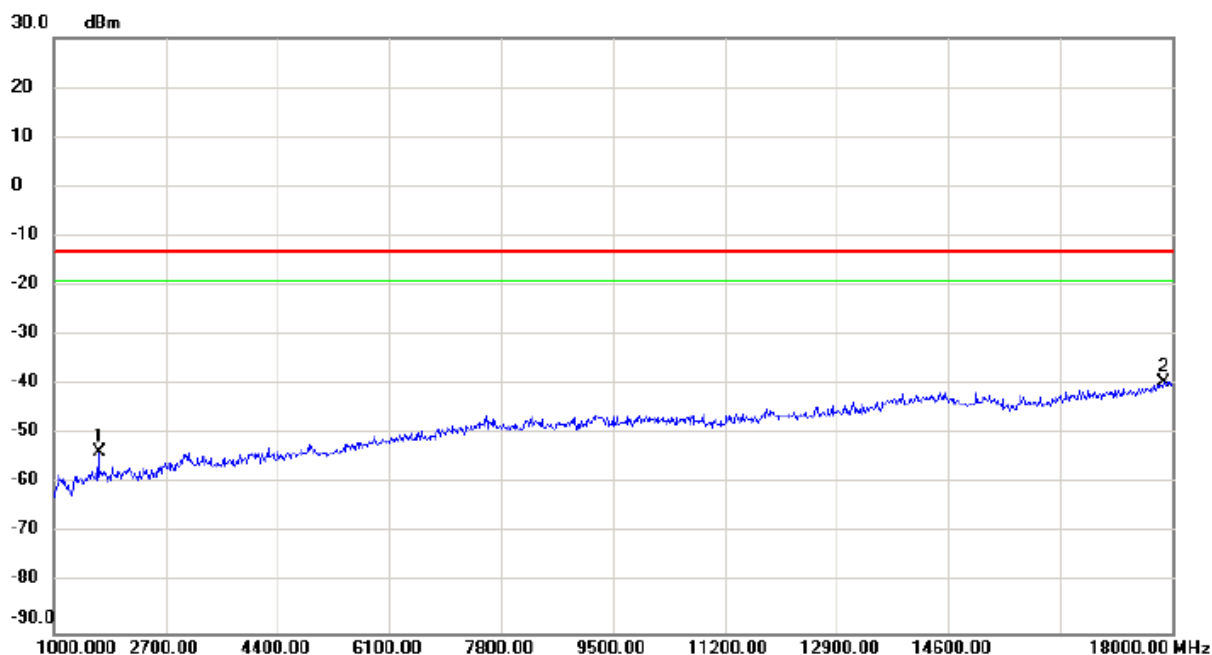
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-47.91	-4.18	-52.09	-13.00	-39.09	peak	
2		2513.000	-49.12	-2.87	-51.99	-13.00	-38.99	peak	
3	*	17966.000	-62.62	22.57	-40.05	-13.00	-27.05	peak	

Test Mode: GSM850_TX CH190_EDGE_without Accessory Devices_Second Antenna

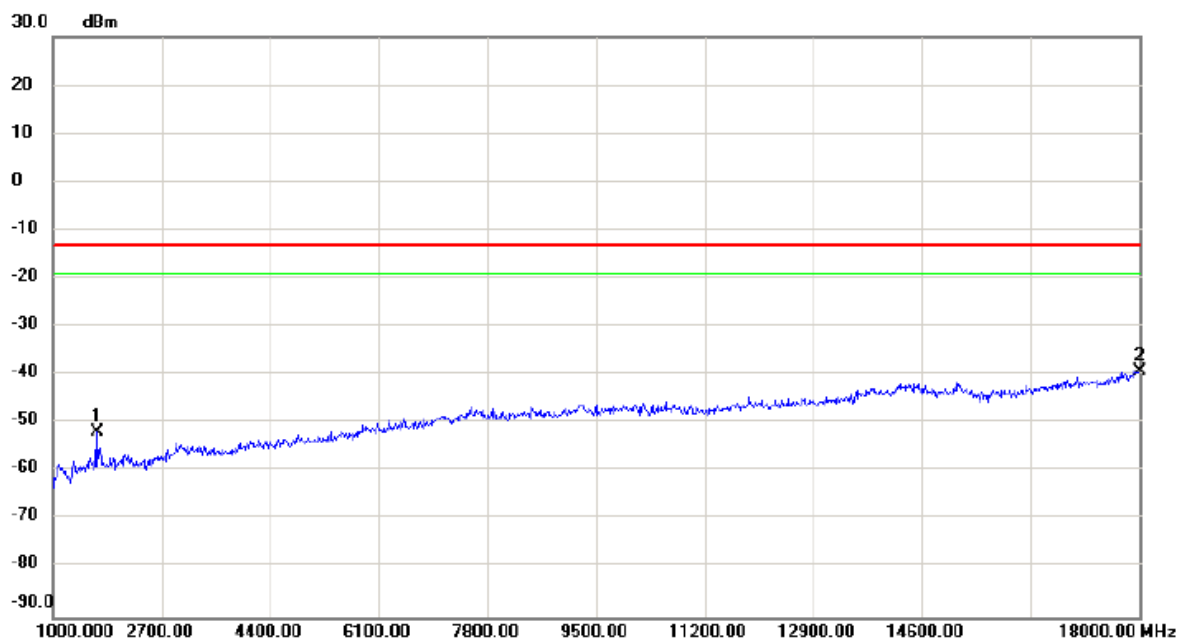
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-49.34	-4.18	-53.52	-13.00	-40.52	peak	
2	*	17881.000	-61.69	22.28	-39.41	-13.00	-26.41	peak	

Test Mode: GSM850_ TX CH190_EDGE_without Accessory Devices_Second Antenna

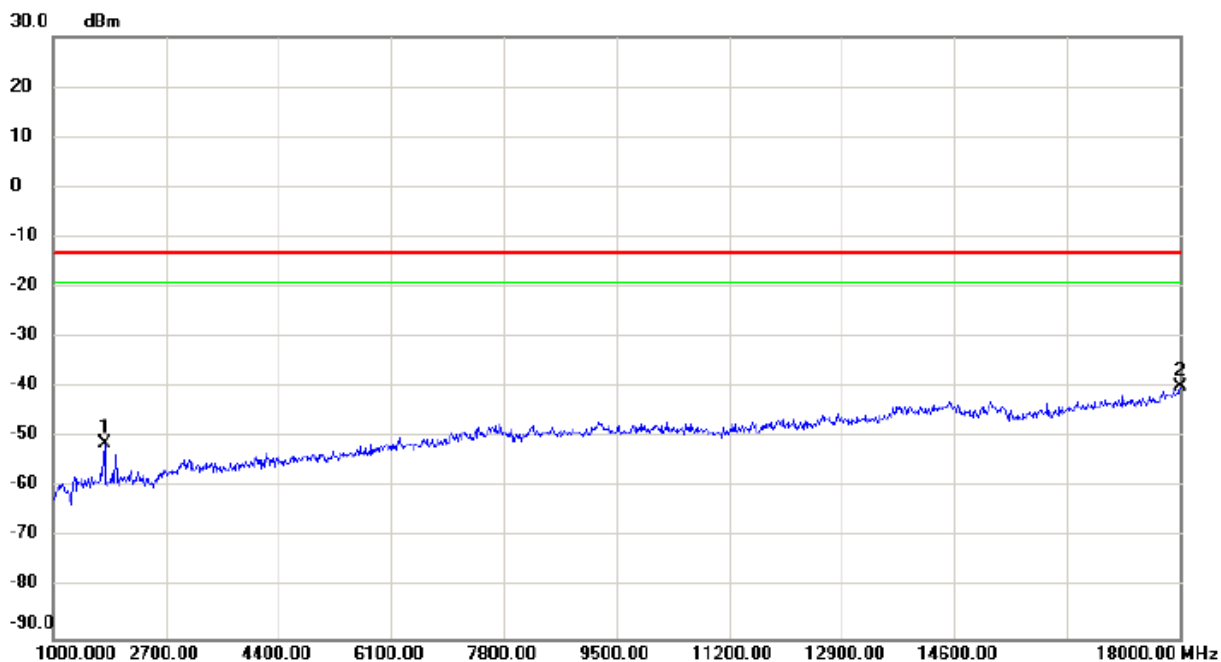
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-47.44	-4.18	-51.62	-13.00	-38.62	peak	
2	*	18000.000	-61.80	22.67	-39.13	-13.00	-26.13	peak	

Test Mode: WCDMA Band V_TX CH4182_Second Antenna

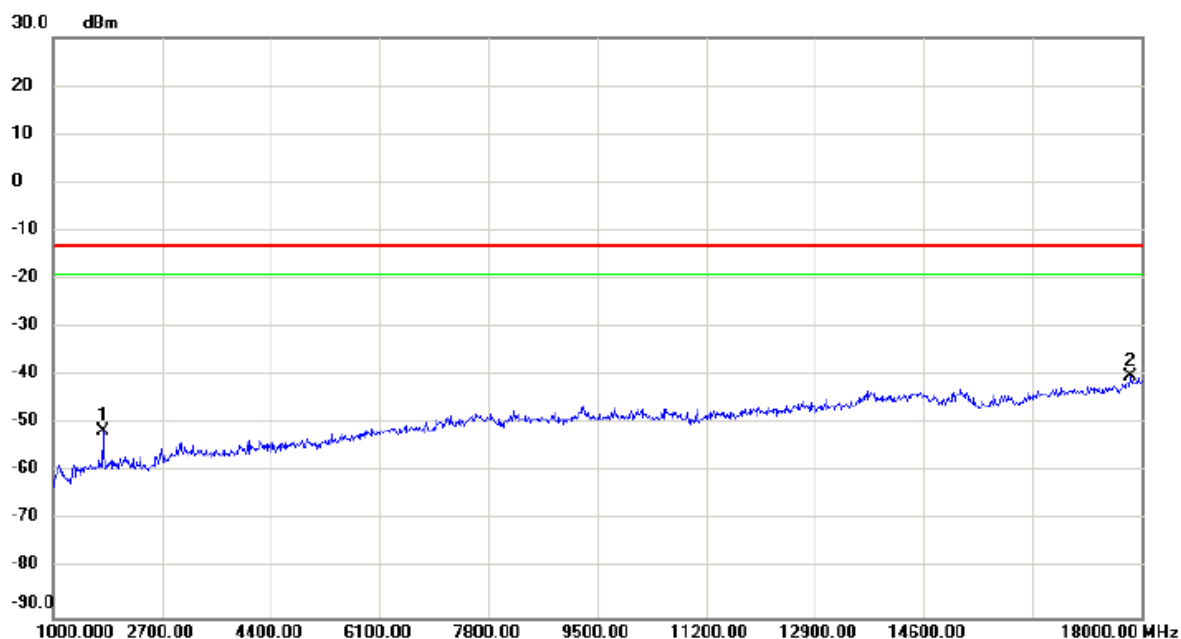
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1773.500	-47.20	-3.86	-51.06	-13.00	-38.06	peak	
2	*	18000.000	-62.30	22.67	-39.63	-13.00	-26.63	peak	

Test Mode: WCDMA Band V_TX CH4182_Second Antenna

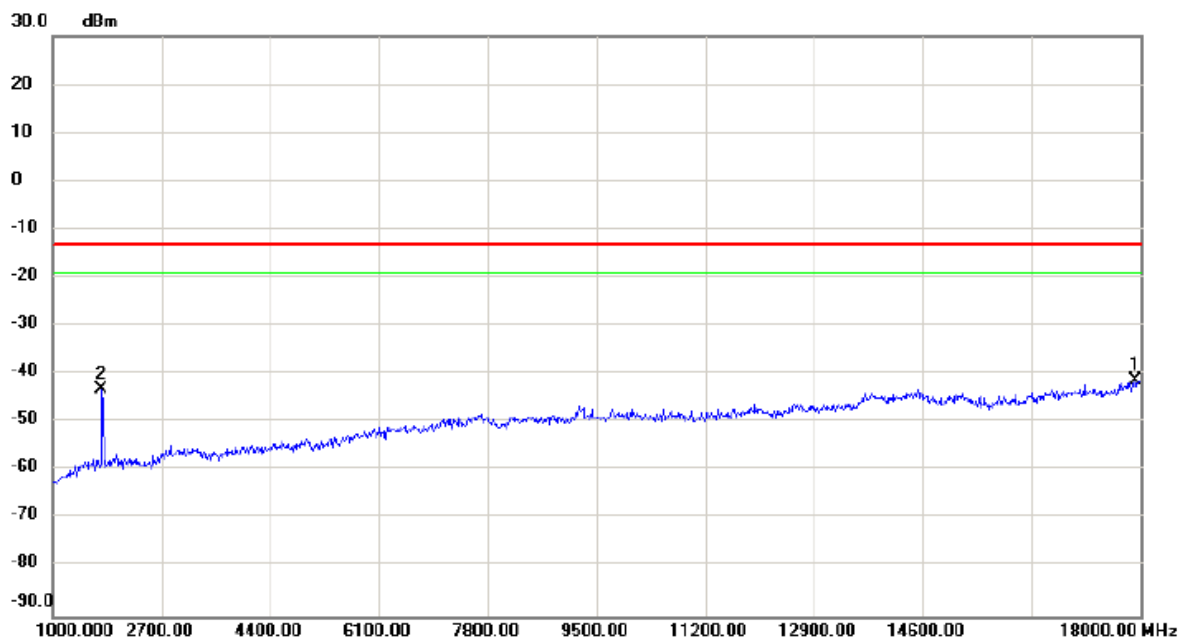
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1773.500	-47.54	-3.86	-51.40	-13.00	-38.40	peak	
2	*	17830.000	-62.06	22.11	-39.95	-13.00	-26.95	peak	

Test Mode: LTE Band 5_TX CH20525_1.4M_Second Antenna

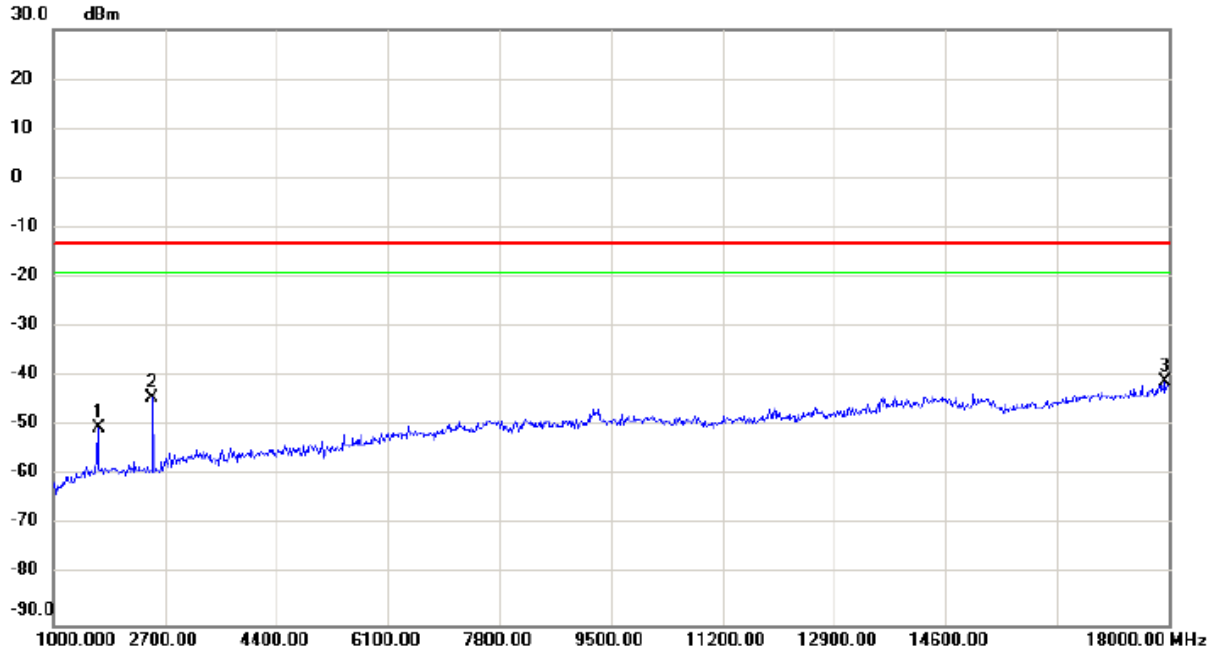
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17915.000	-63.65	22.38	-41.27	-13.00	-28.27	peak	
2		1765.000	-39.16	-3.89	-43.05	-13.00	-30.05	peak	

Test Mode: LTE Band 5_TX CH20525_1.4M_Second Antenna

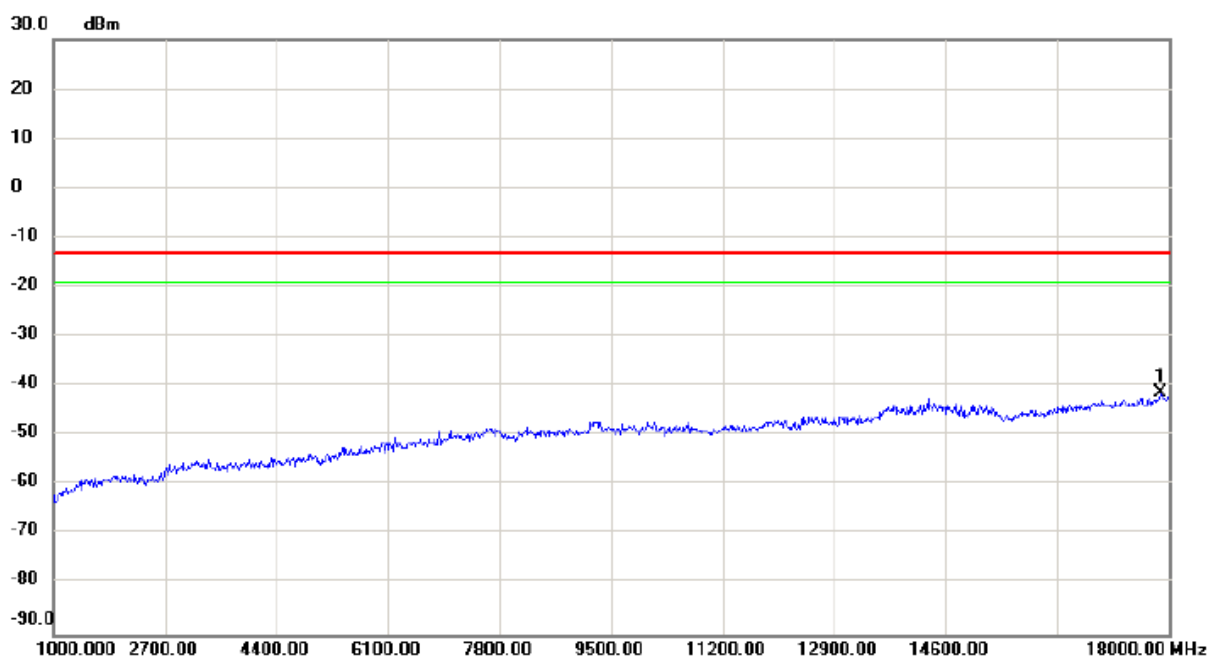
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1680.000	-46.14	-4.18	-50.32	-13.00	-37.32	peak	
2		2513.000	-41.33	-2.87	-44.20	-13.00	-31.20	peak	
3	*	17932.000	-63.53	22.44	-41.09	-13.00	-28.09	peak	

Test Mode: LTE Band 5_TX CH20525_5M_Second Antenna

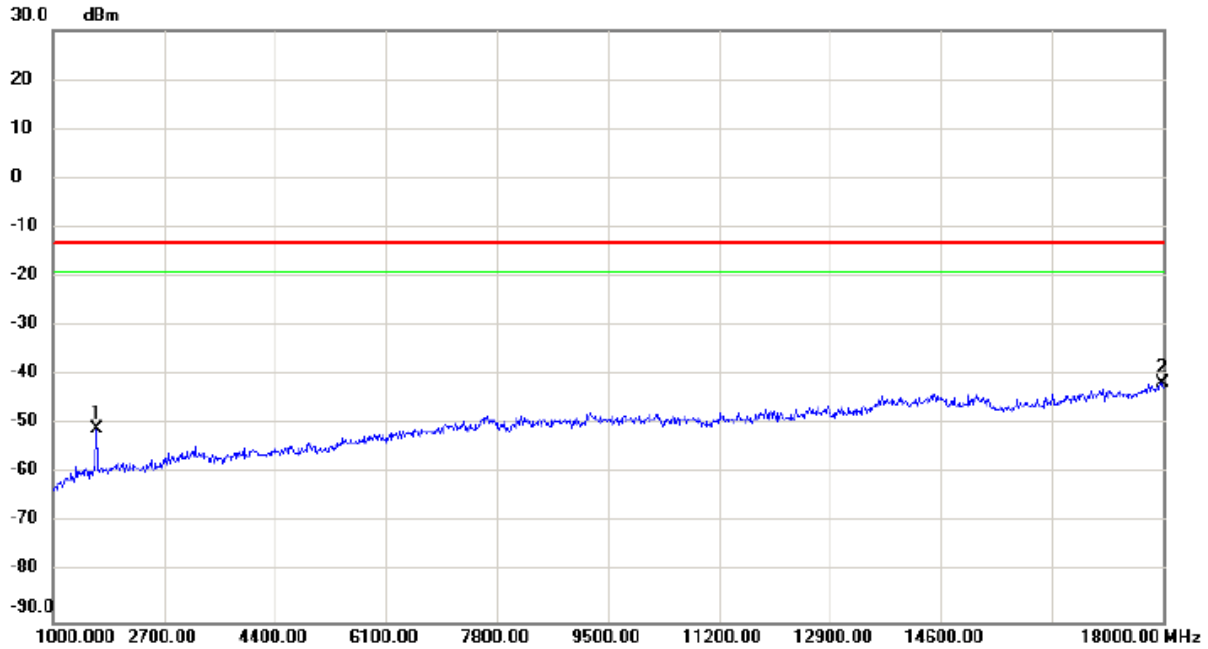
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17881.000	-63.45	22.28	-41.17	-13.00	-28.17	peak	

Test Mode: LTE Band 5_TX CH20525_5M_Second Antenna

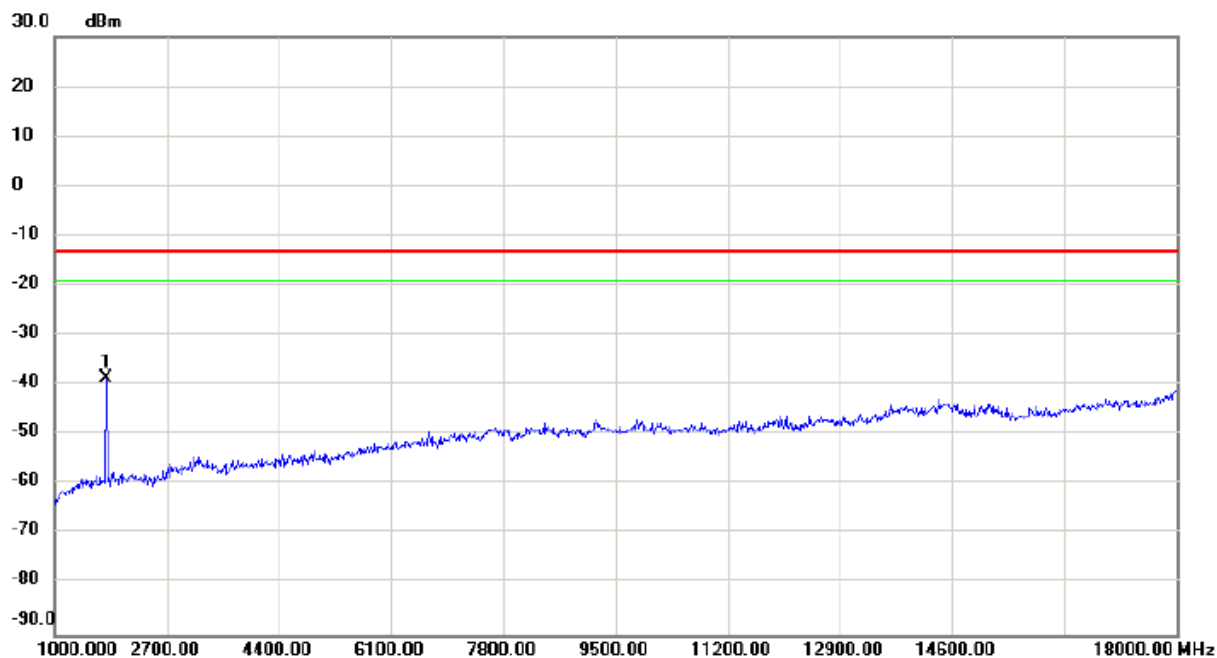
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1663.000	-46.73	-4.25	-50.98	-13.00	-37.98	peak	
2	*	17983.000	-64.18	22.61	-41.57	-13.00	-28.57	peak	

Test Mode: LTE Band 5_TX CH20525_10M_Second Antenna

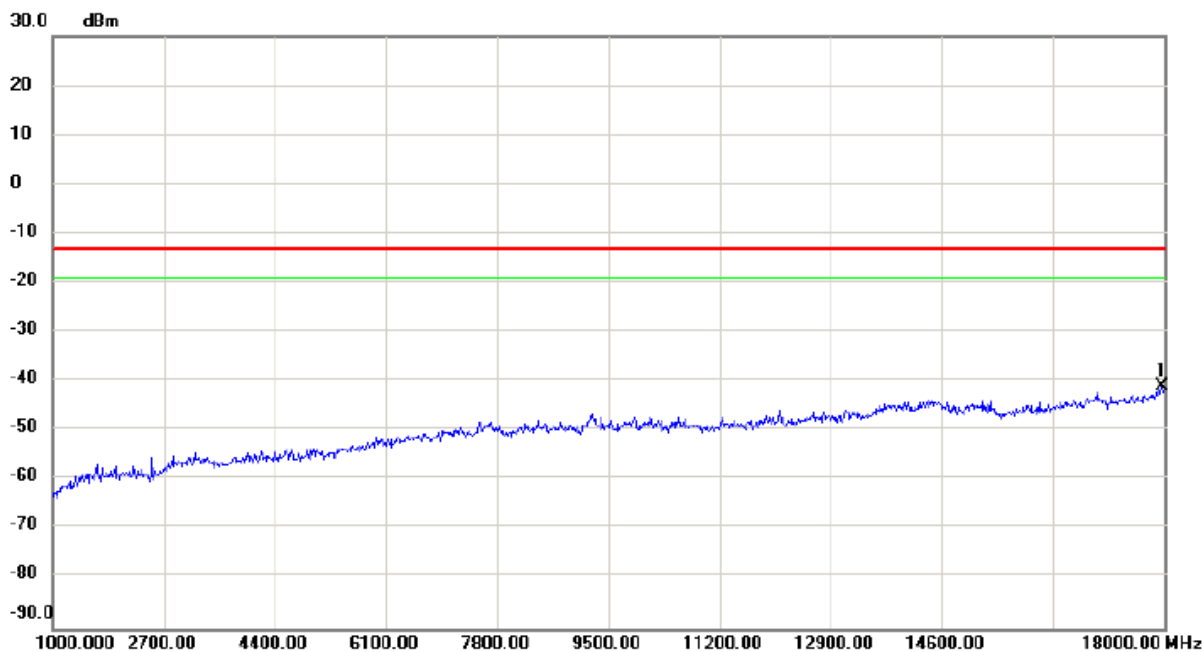
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	1782.000	-34.87	-3.82	-38.69	-13.00	-25.69	peak	

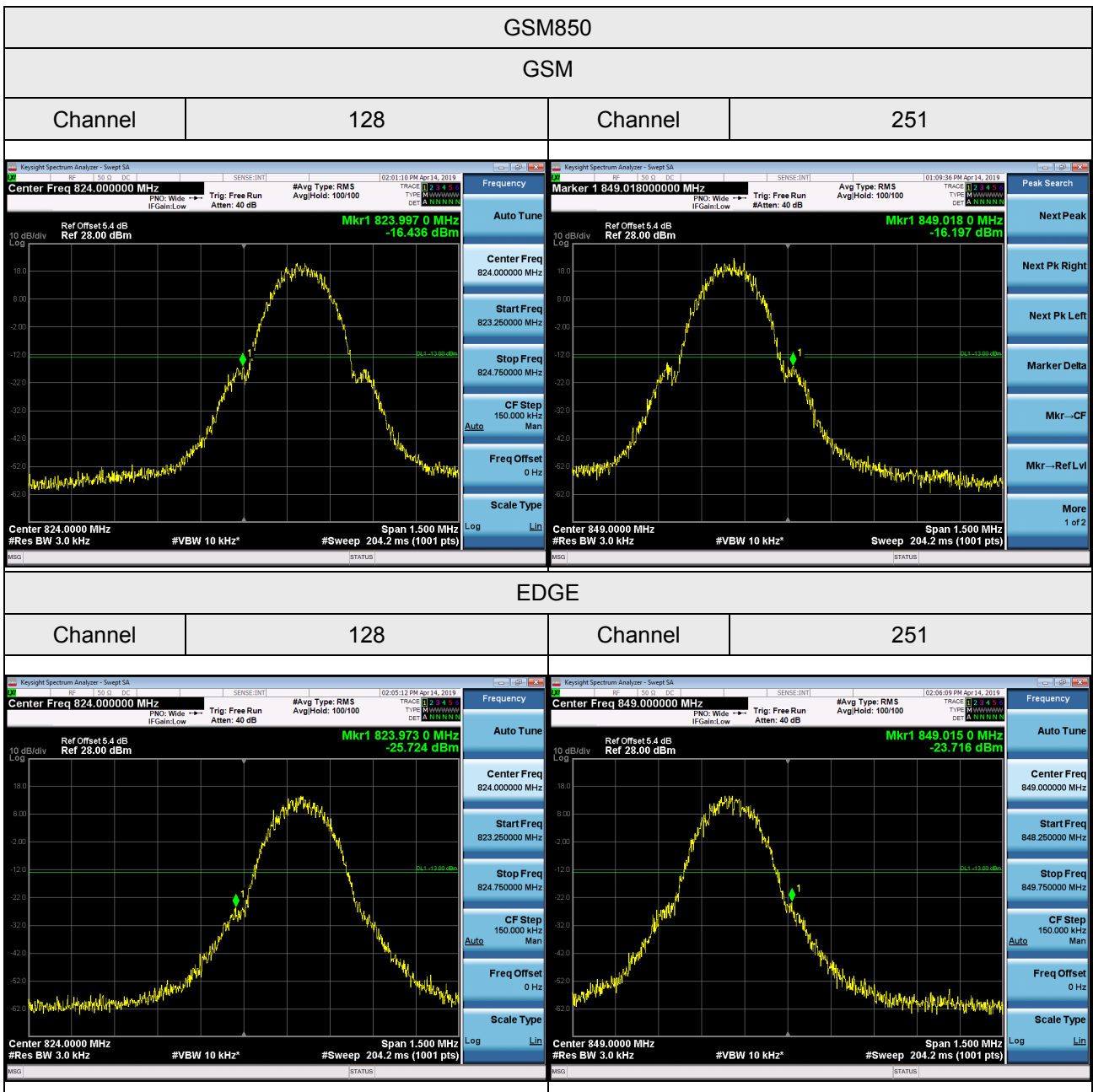
Test Mode: LTE Band 5_TX CH20525_10M_Second Antenna

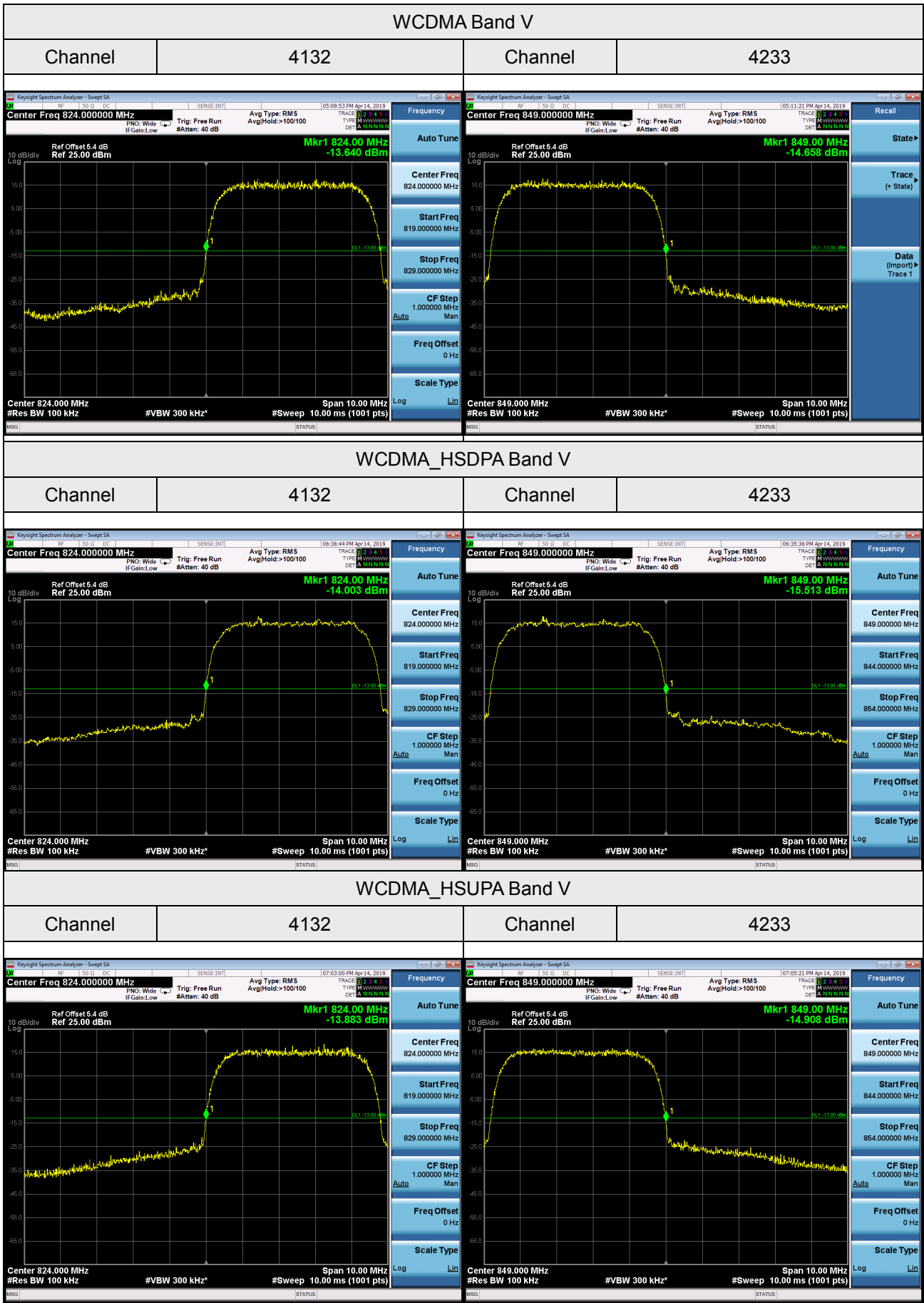
Horizontal

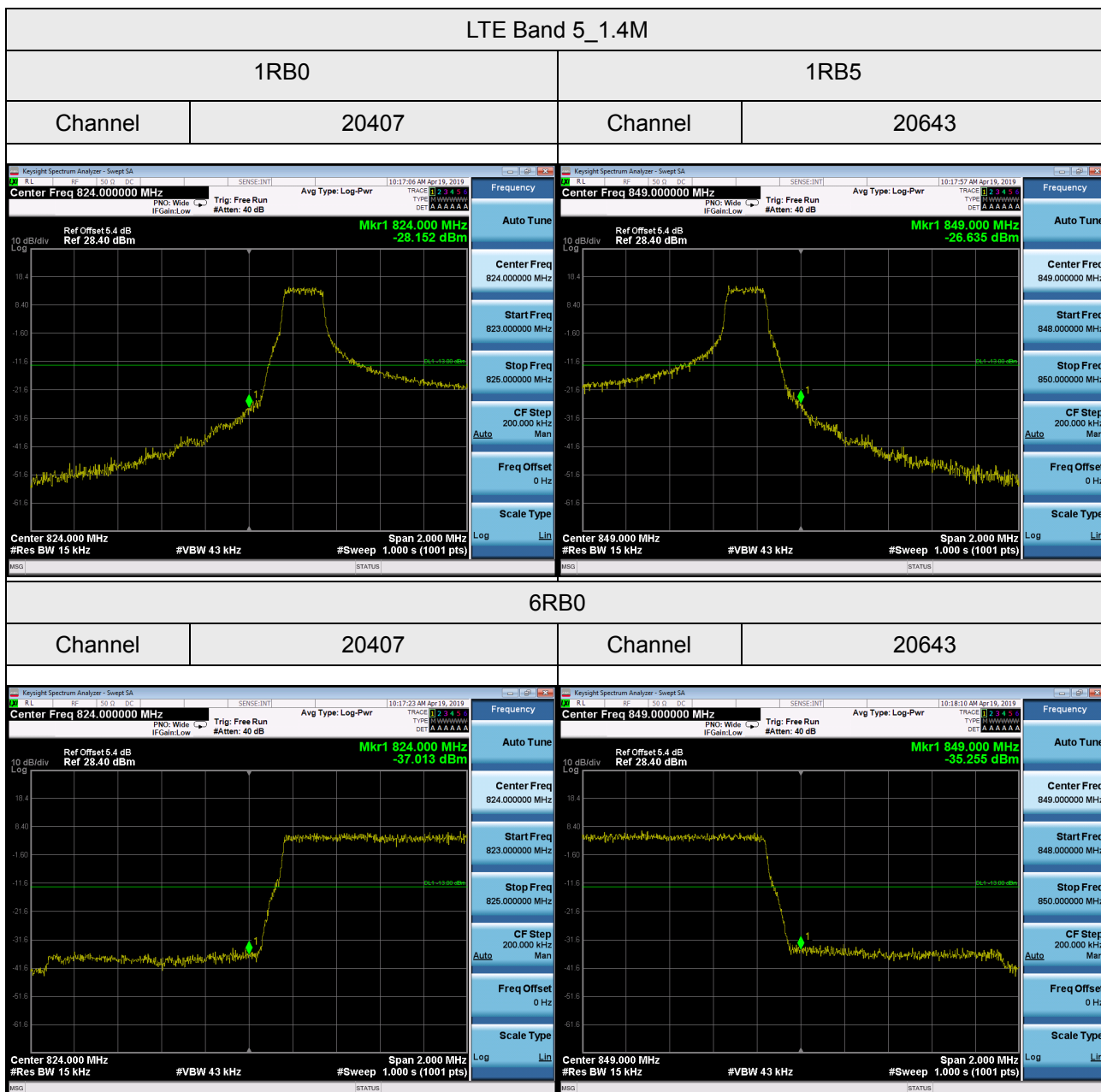


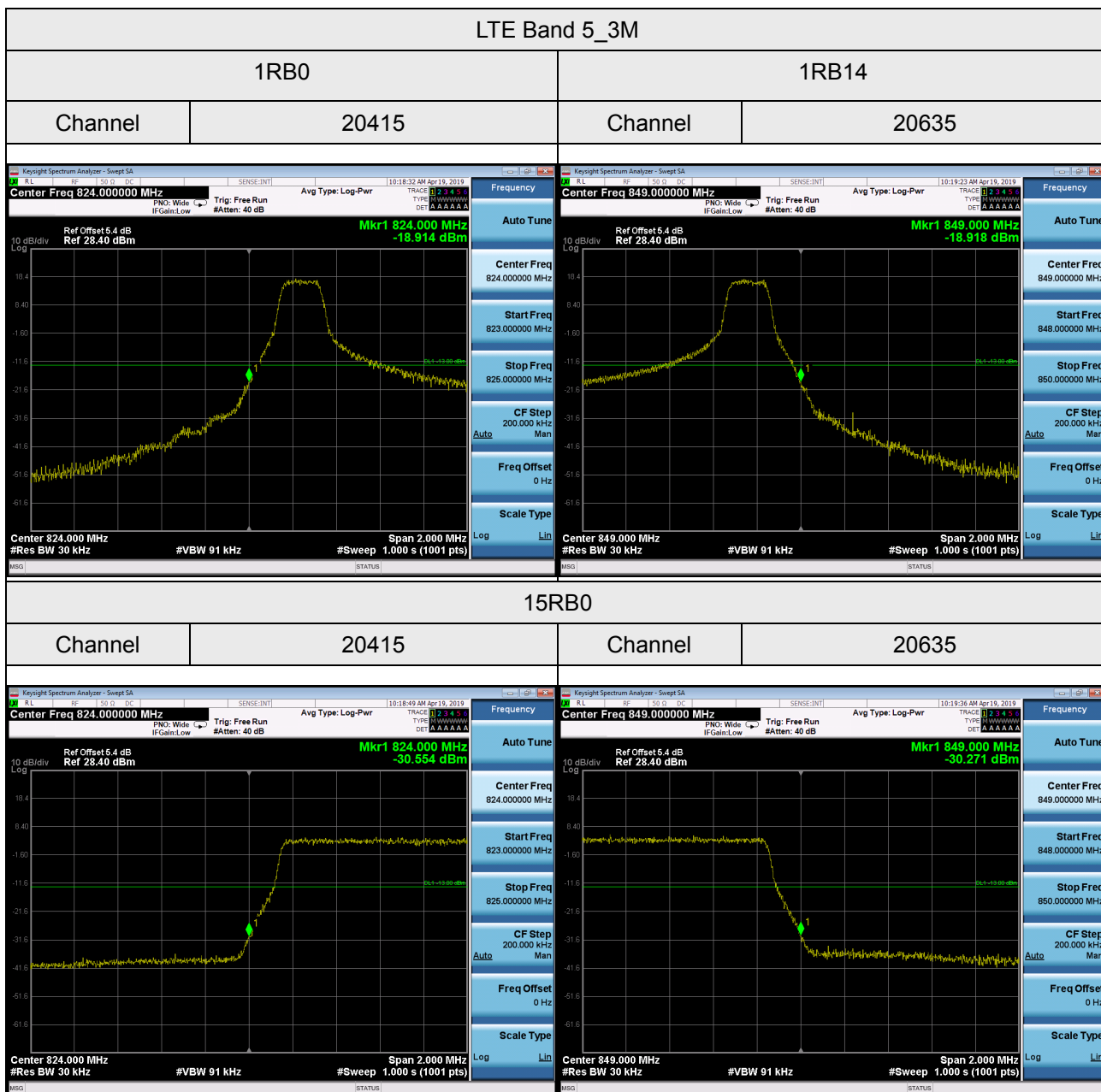
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17966.000	-63.58	22.57	-41.01	-13.00	-28.01	peak	

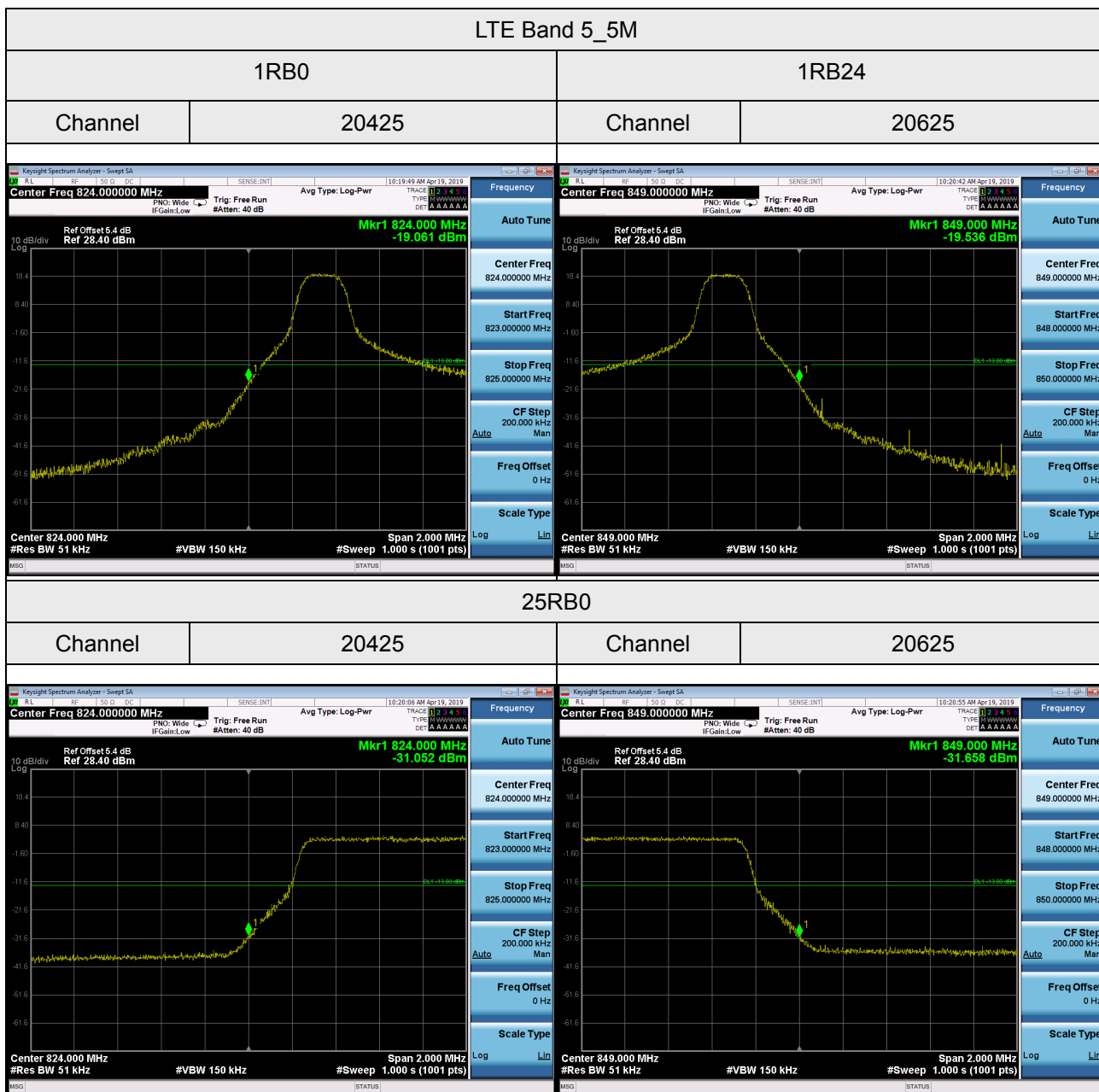
APPENDIX G - BAND EDGE

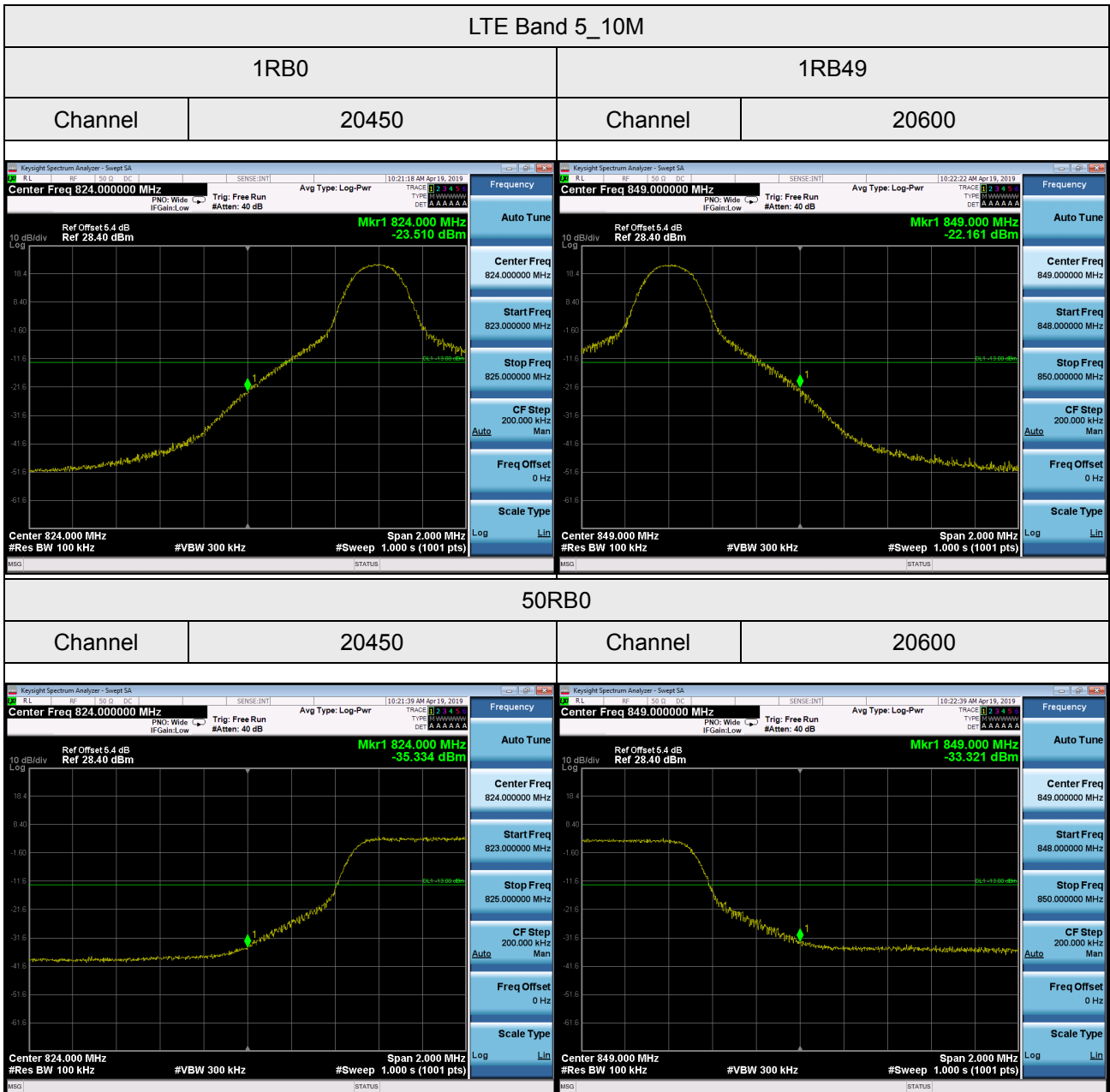








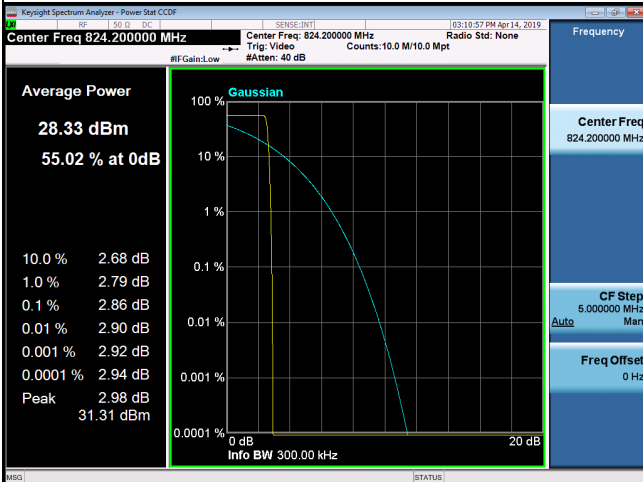




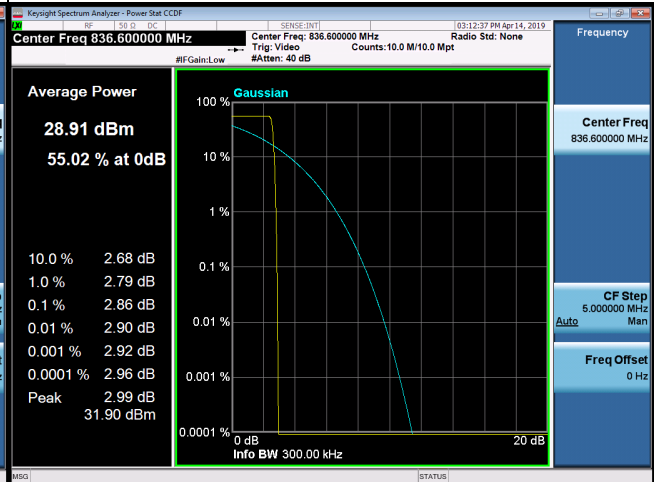
APPENDIX H - PEAK TO AVERAGE RATIO

GSM 850 Spectrum Plot

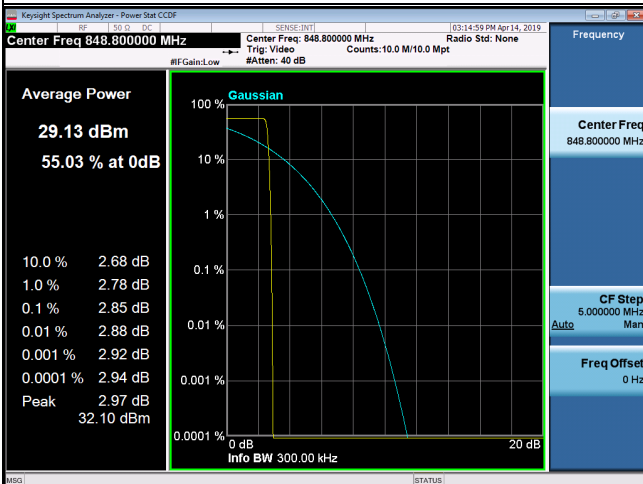
GSM -128



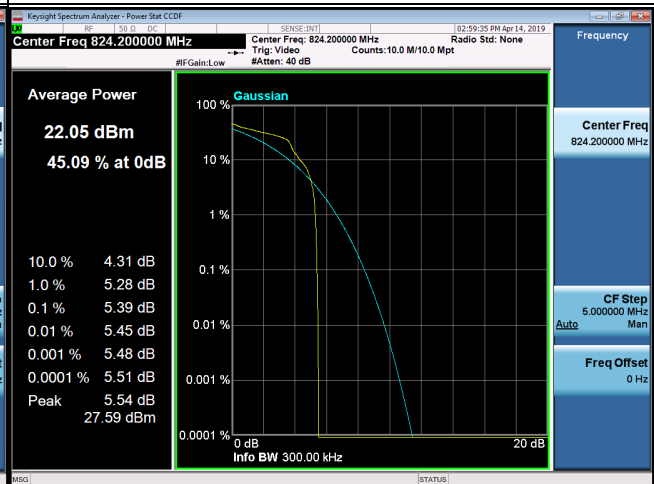
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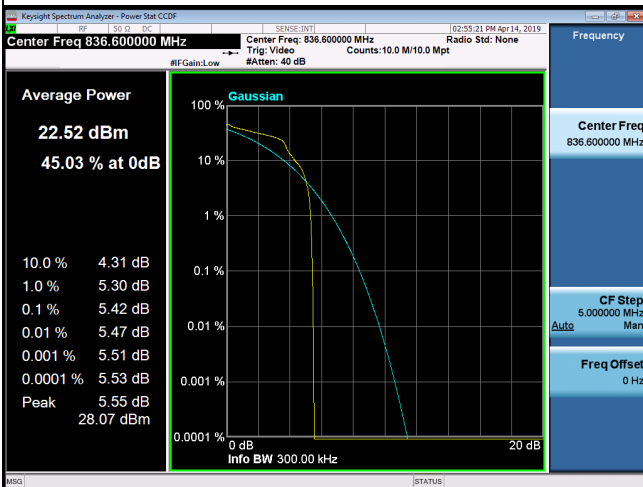
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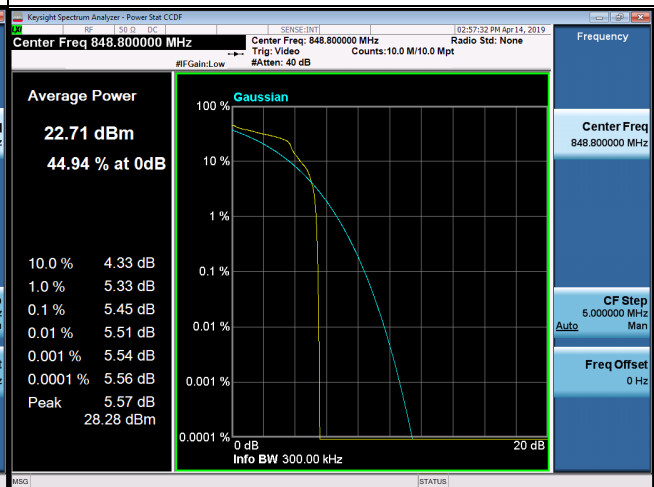
EDGE-128



EDGE-190



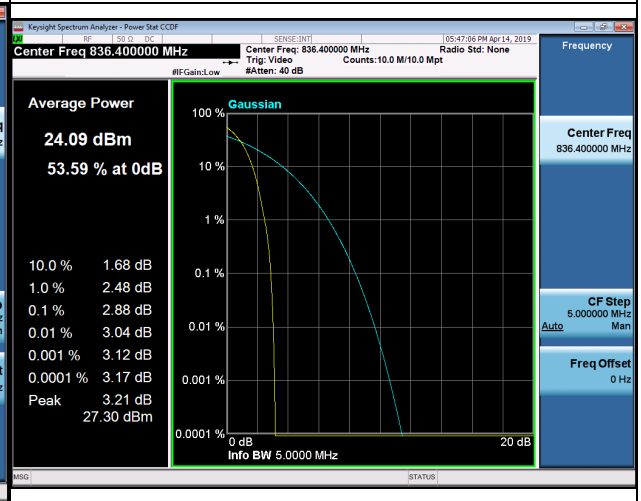
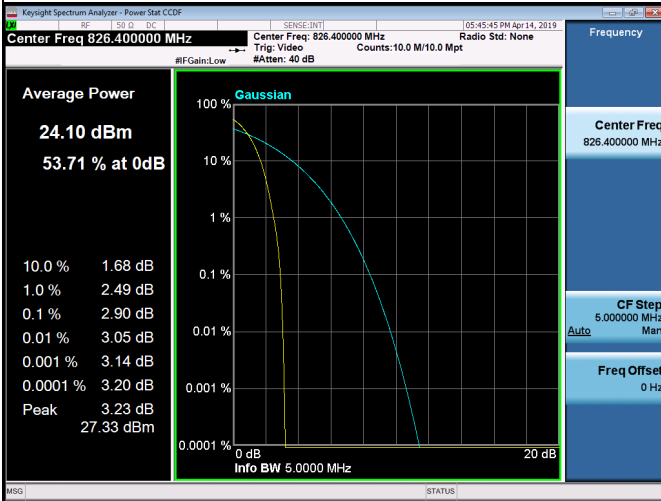
EDGE-251



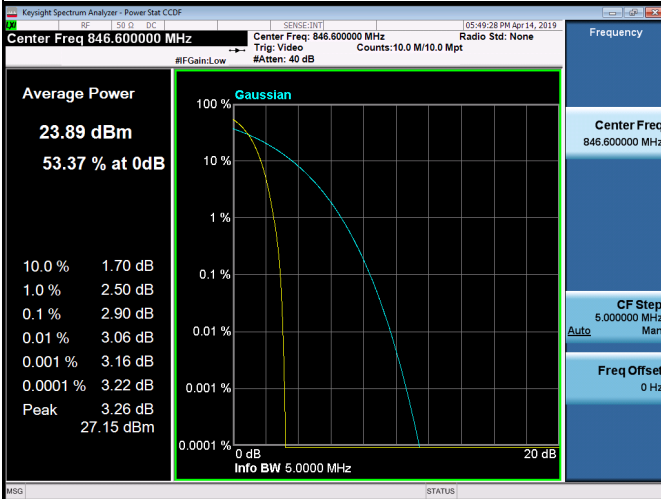
WCDMA Band V Spectrum Plot

4132

4182



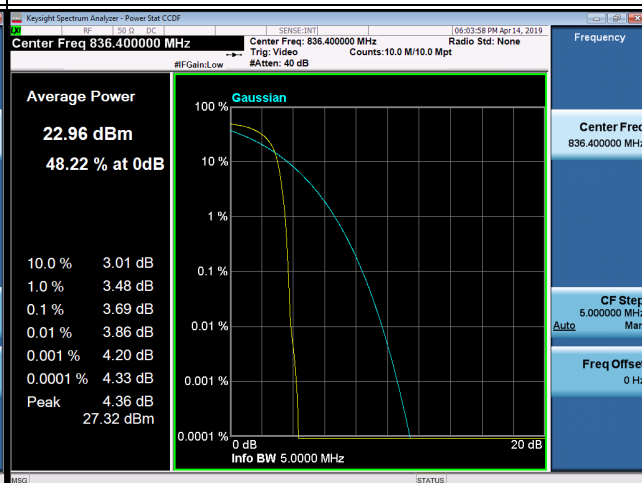
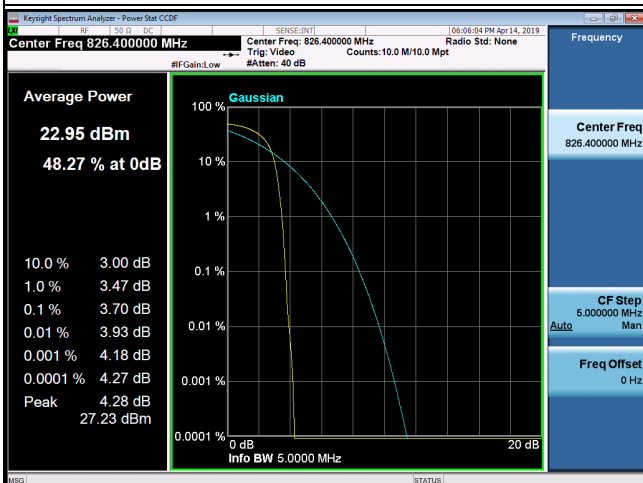
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WCDMA_HSDPA Band V Spectrum Plot

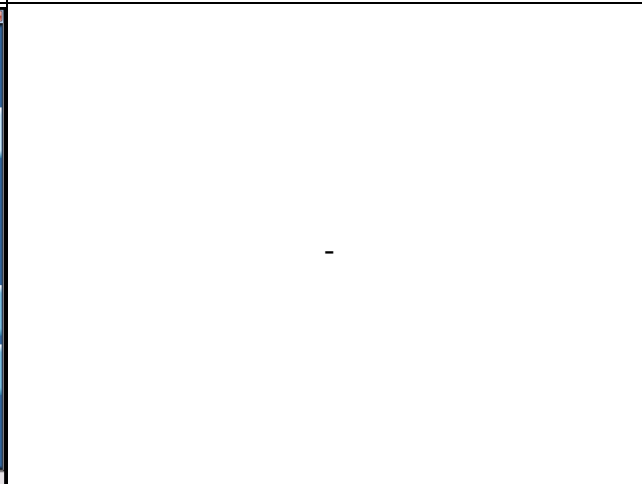
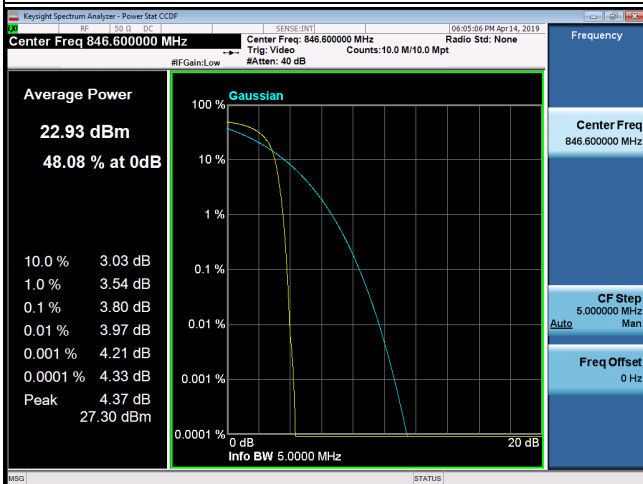
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4182



4233

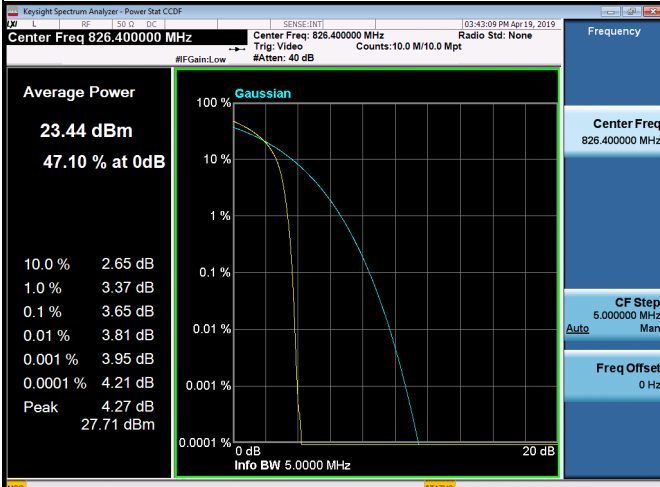
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WCDMA_HSUPA Band V Spectrum Plot

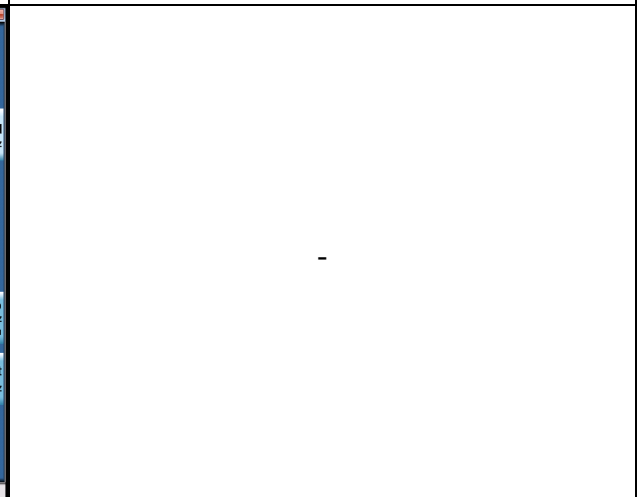
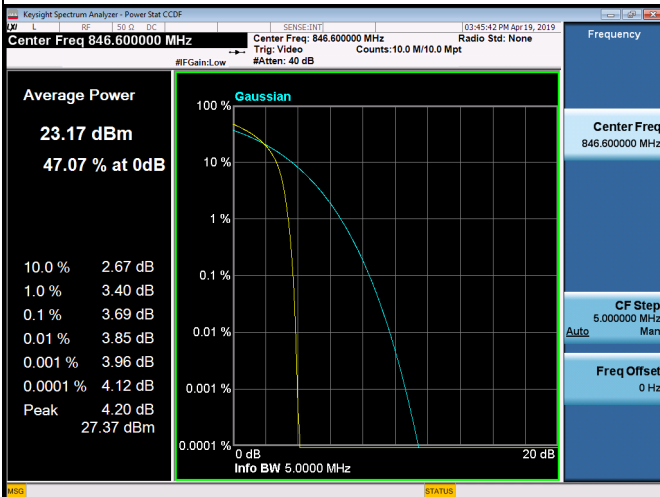
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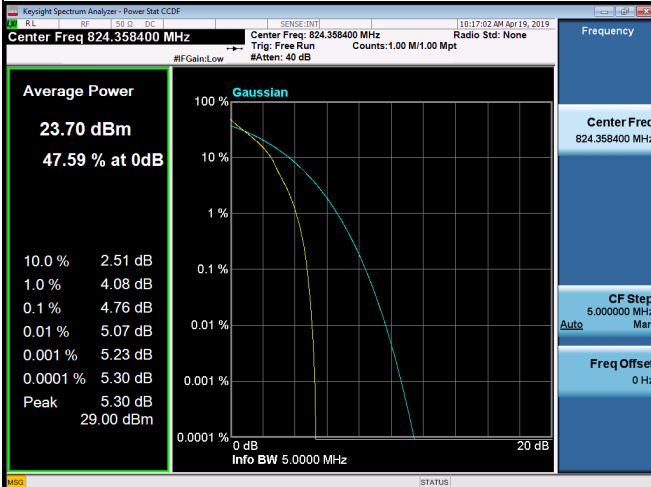
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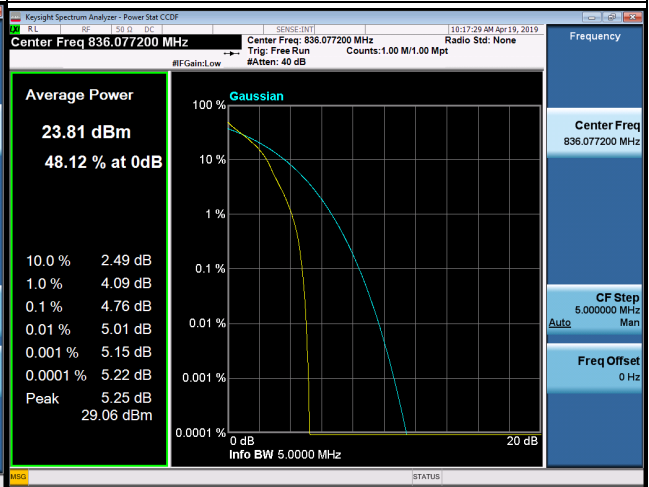


LTE Band 5 Spectrum Plot_1.4M

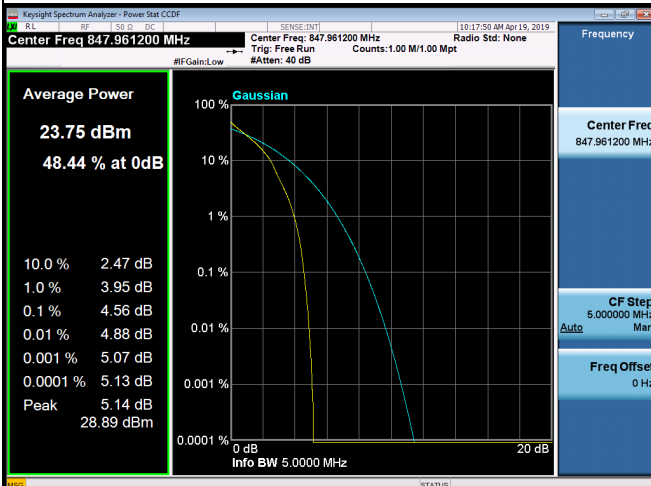
QPSK-20407



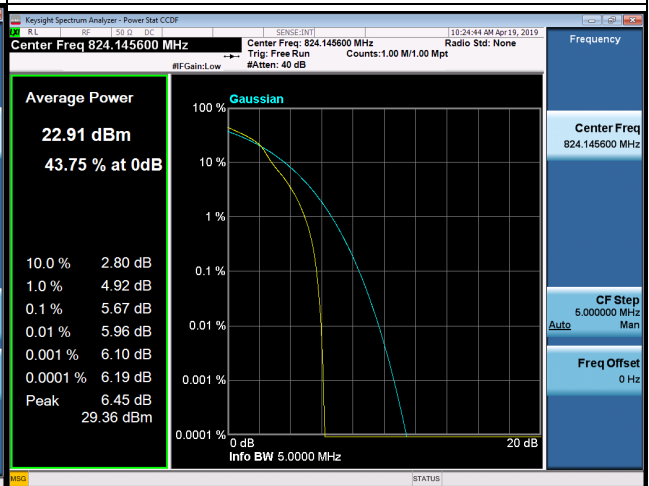
QPSK-20525



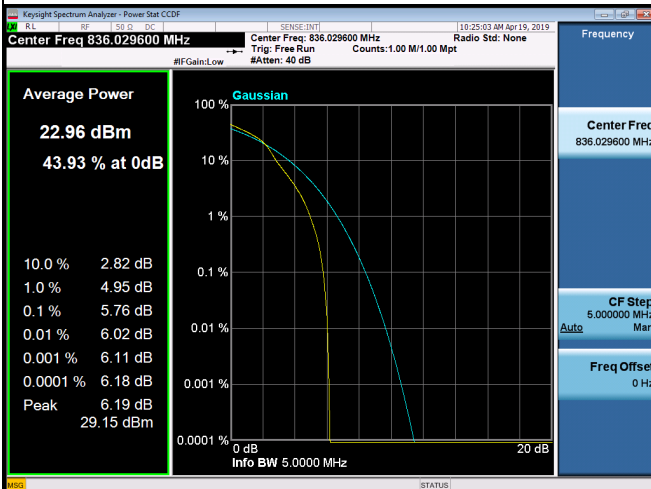
QPSK-20643



16QAM-20407



16QAM-20525

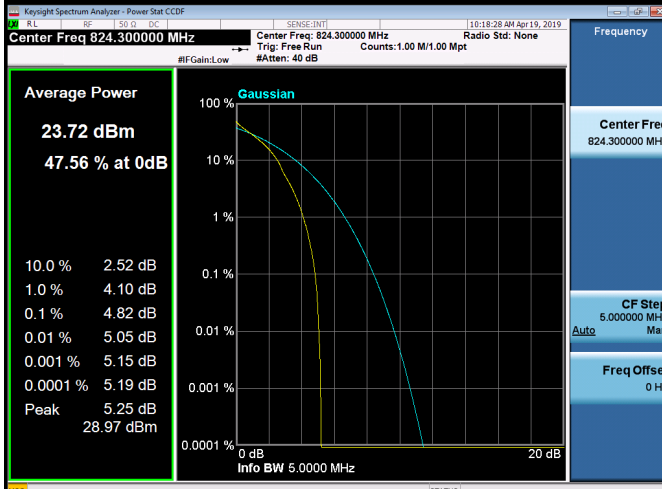


16QAM-20643



LTE Band 5 Spectrum Plot_3M

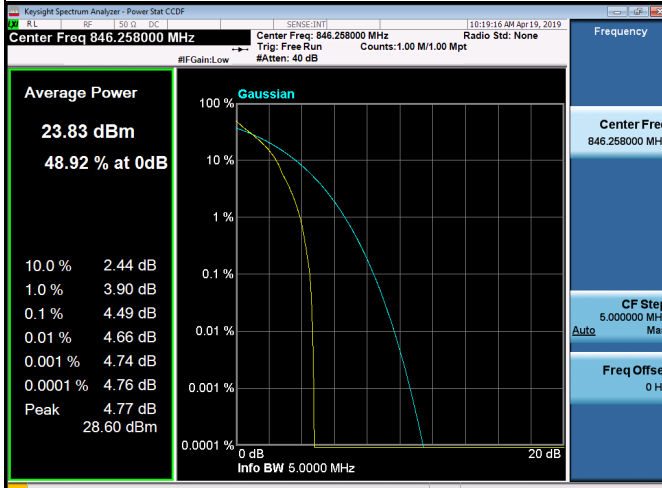
QPSK-20415



QPSK-20525



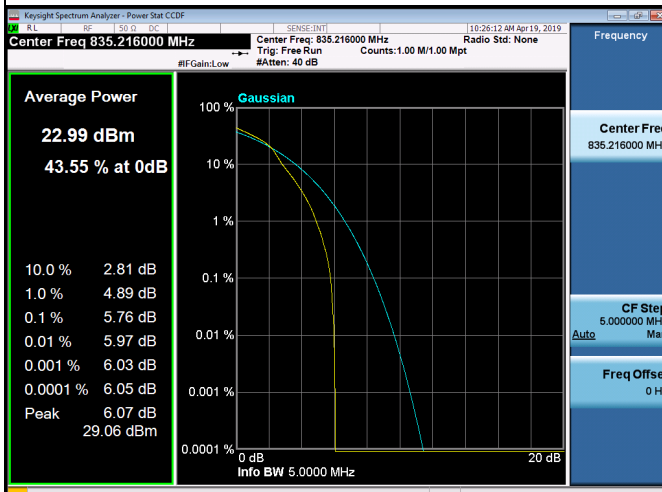
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16QAM-20415



16QAM-20525

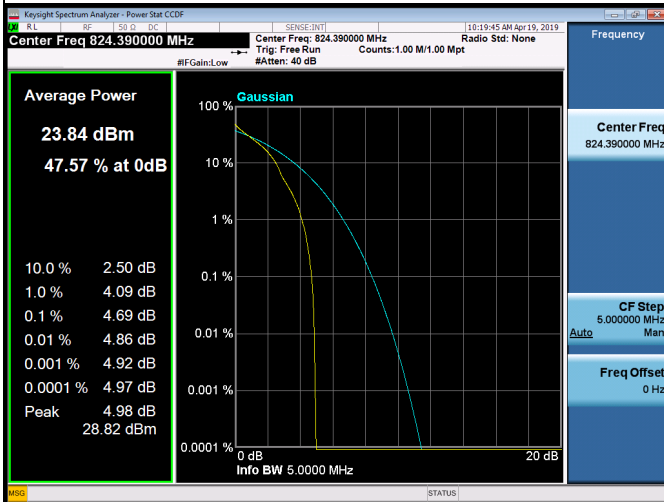


16QAM-20635

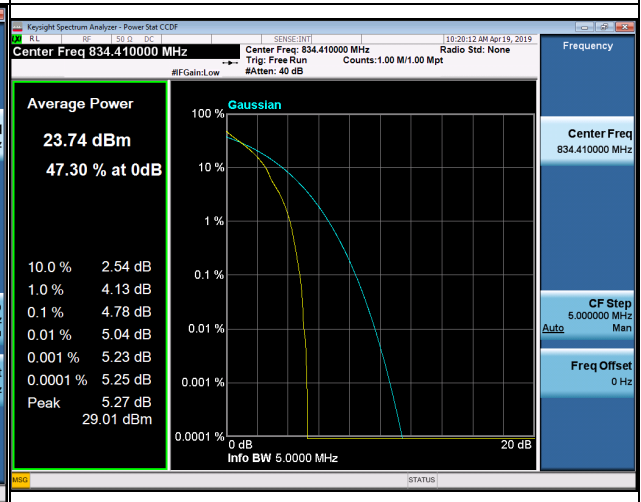


LTE Band 5 Spectrum Plot_5M

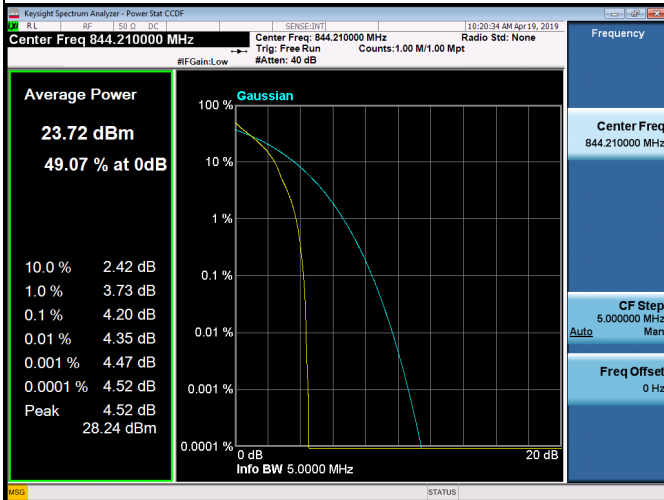
QPSK-20425



QPSK-20525



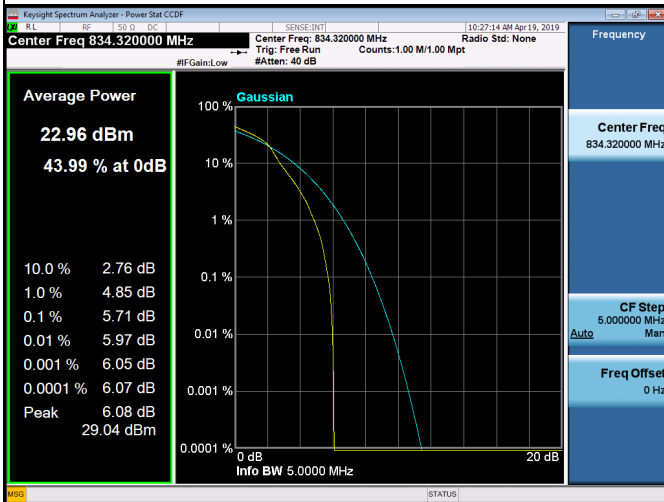
QPSK-20625



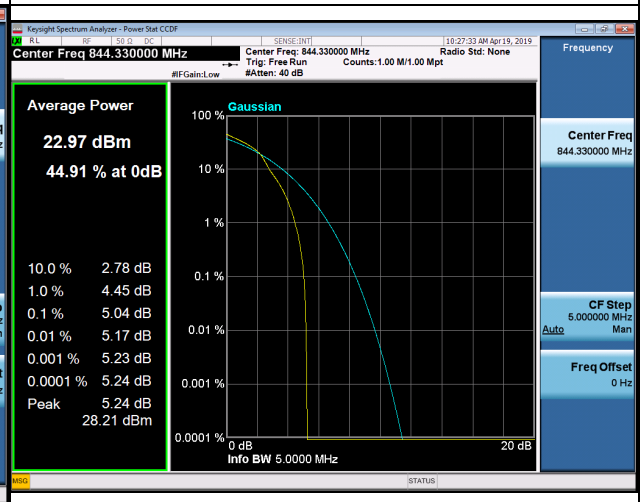
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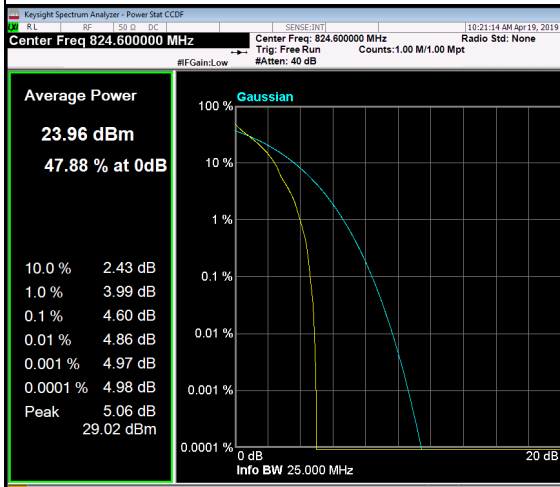


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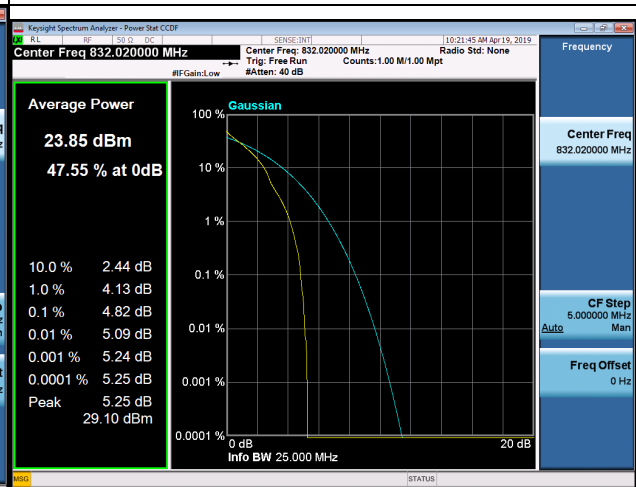


LTE Band 5 Spectrum Plot_10M

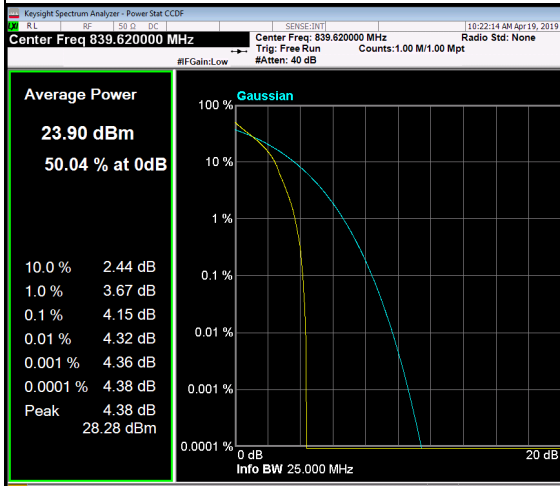
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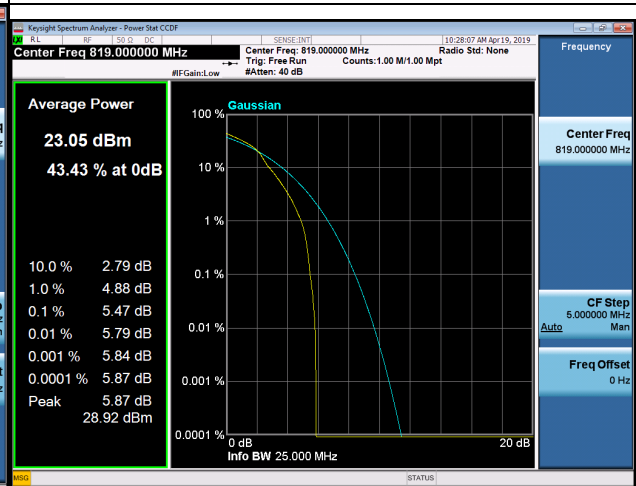
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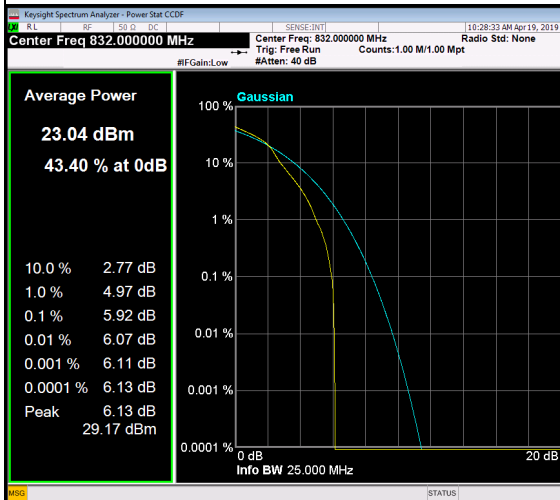
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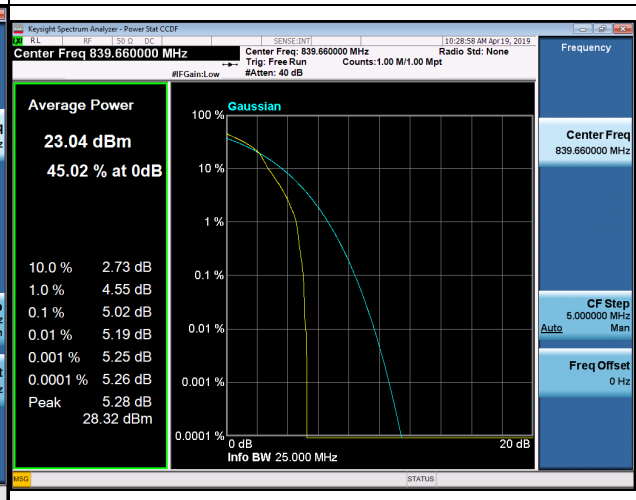
16QAM-20450



16QAM-20525



16QAM-20600



APPENDIX I - FREQUENCY STABILITY

Test Mode:	GSM850_CH190
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.18	0.004996414	± 2.5
-20	4.45	0.005319149	
-10	5.10	0.006096103	
0	3.80	0.004542195	
10	5.85	0.006992589	
20	4.61	0.005510399	
30	5.66	0.006765479	
40	5.99	0.007159933	
50	5.44	0.00650251	
Max. Deviation (ppm)	5.99	0.007159933	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.35	3.18	0.0038011	± 2.5
3.80	4.82	0.005761415	
3.60	4.46	0.005331102	
Max. Deviation (ppm)	4.82	0.005761415	

Test Mode:	WCDMA Band V_CH4182
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.88	0.005834529	± 2.5
-20	3.87	0.004626973	
-10	7.62	0.009110473	
0	4.23	0.005057389	
10	8.86	0.010593018	
20	8.30	0.009923482	
30	2.99	0.003574845	
40	6.89	0.008237685	
50	1.99	0.002379244	
Max. Deviation (ppm)	8.86	0.010593018	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.35	3.46	0.004136777	± 2.5
3.80	0.92	0.001099952	
3.60	3.57	0.004268293	
Max. Deviation (ppm)	3.57	0.004268293	

Test Mode:	LTE Band 5_CH20525_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.02	0.004805738	± 2.5
-20	-5.57	-0.006658697	
-10	-3.00	-0.003586372	
0	-2.77	-0.003311417	
10	5.38	0.00643156	
20	-3.01	-0.003598326	
30	2.79	0.003335326	
40	3.75	0.004482965	
50	4.72	0.005642558	
Max. Deviation (ppm)	-5.57	-0.006658697	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.35	-4.59	-0.005487149	± 2.5
3.80	-2.97	-0.003550508	
3.60	-6.07	-0.007256426	
Max. Deviation (ppm)	-6.07	-0.007256426	

Test Mode:	LTE Band 5_CH20525_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.39	-0.0040526	± 2.5
-20	3.99	0.004769874	
-10	5.02	0.006001195	
0	5.67	0.006778243	
10	-2.42	-0.002893007	
20	4.50	0.005379558	
30	-3.58	-0.004279737	
40	1.79	0.002139868	
50	3.93	0.004698147	
Max. Deviation (ppm)	5.67	0.006778243	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.35	-4.33	-0.00517633	± 2.5
3.80	2.11	0.002522415	
3.60	-2.08	-0.002486551	
Max. Deviation (ppm)	-4.33	-0.00517633	

Test Mode:	LTE Band 5_CH20525_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.43	0.00768679	± 2.5
-20	3.38	0.004040646	
-10	-1.82	-0.002175732	
0	4.19	0.005008966	
10	-2.66	-0.003179916	
20	3.84	0.004590556	
30	5.05	0.006037059	
40	3.61	0.004315601	
50	-2.87	-0.003430962	
Max. Deviation (ppm)	6.43	0.00768679	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.35	3.08	0.003682008	± 2.5
3.80	-4.91	-0.005869695	
3.60	-3.42	-0.004088464	
Max. Deviation (ppm)	-4.91	-0.005869695	

Test Mode:	LTE Band 5_CH20525_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.62	-0.004327555	± 2.5
-20	7.11	0.008499701	
-10	2.01	0.002402869	
0	-4.11	-0.004913329	
10	-2.60	-0.003108189	
20	-5.04	-0.006025105	
30	6.77	0.008093246	
40	2.66	0.003179916	
50	1.90	0.002271369	
Max. Deviation (ppm)	7.11	0.008499701	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.35	-5.71	-0.006826061	± 2.5
3.80	-3.28	-0.0039211	
3.60	4.29	0.005128512	
Max. Deviation (ppm)	-5.71	-0.006826061	

End of Test Report