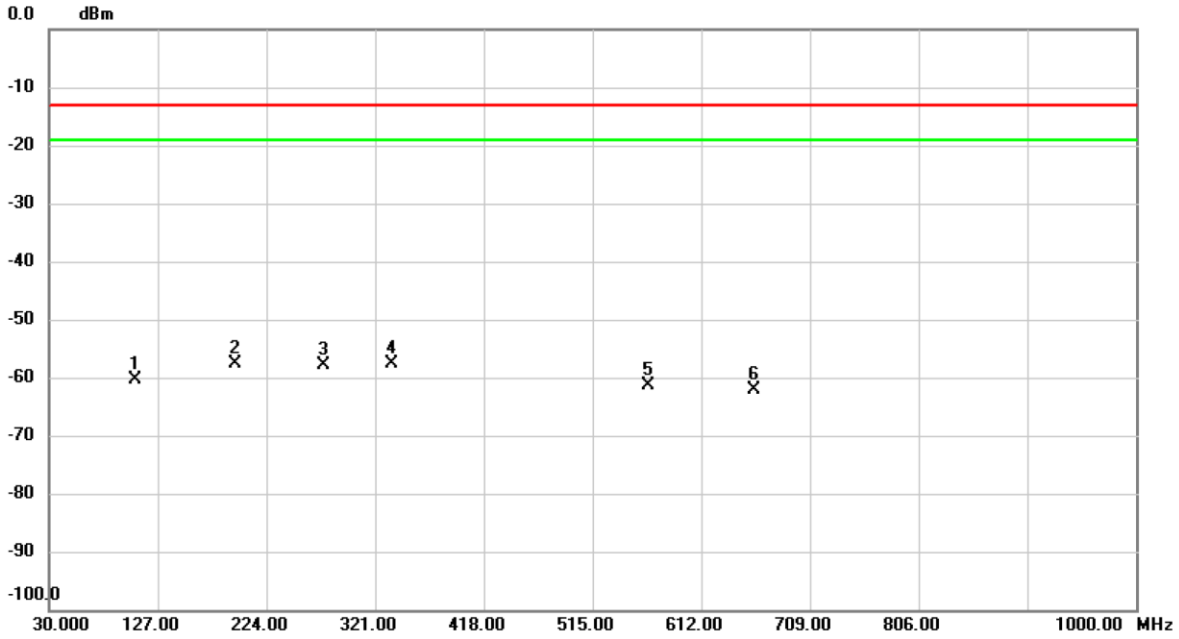
APPENDIX D - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

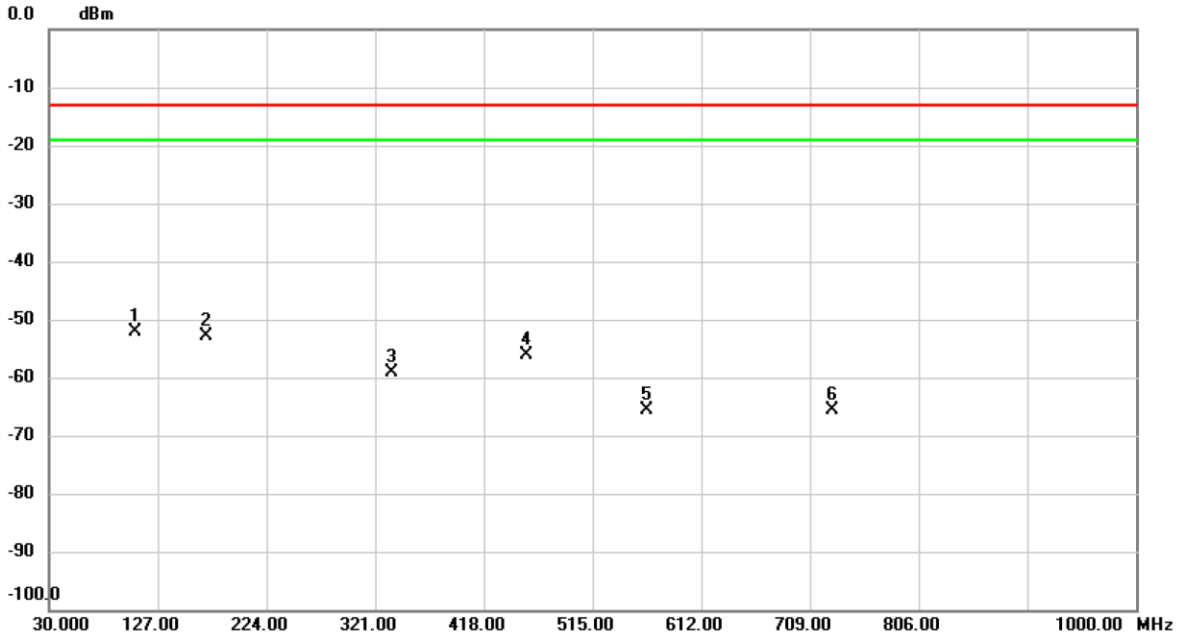
Test Mode	WCDMA Band V	Test Date	2020/6/1
Test Channel	CH4183	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		106.6300	-60.72	0.43	-60.29	-13.00	-47.29	peak	
2	*	195.8700	-60.82	3.16	-57.66	-13.00	-44.66	peak	
3		275.4100	-65.64	7.67	-57.97	-13.00	-44.97	peak	
4		335.5500	-64.59	6.92	-57.67	-13.00	-44.67	peak	
5		564.4700	-71.22	9.93	-61.29	-13.00	-48.29	peak	
6		658.5600	-74.86	12.69	-62.17	-13.00	-49.17	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

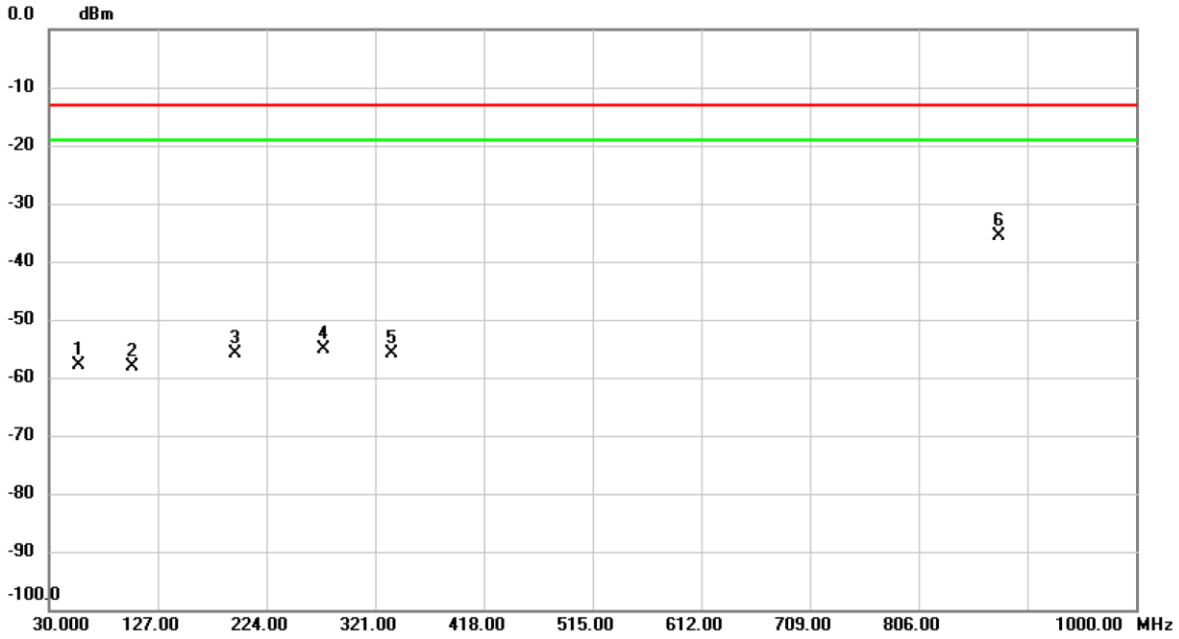
Test Mode	WCDMA Band V	Test Date	2020/6/1
Test Channel	CH4183	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	106.6300	-55.61	3.37	-52.24	-13.00	-39.24	peak	
2		170.6500	-54.99	2.12	-52.87	-13.00	-39.87	peak	
3		335.5500	-62.34	3.15	-59.19	-13.00	-46.19	peak	
4		455.8300	-71.09	15.01	-56.08	-13.00	-43.08	peak	
5		563.5000	-73.89	8.33	-65.56	-13.00	-52.56	peak	
6		728.4000	-76.86	11.30	-65.56	-13.00	-52.56	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

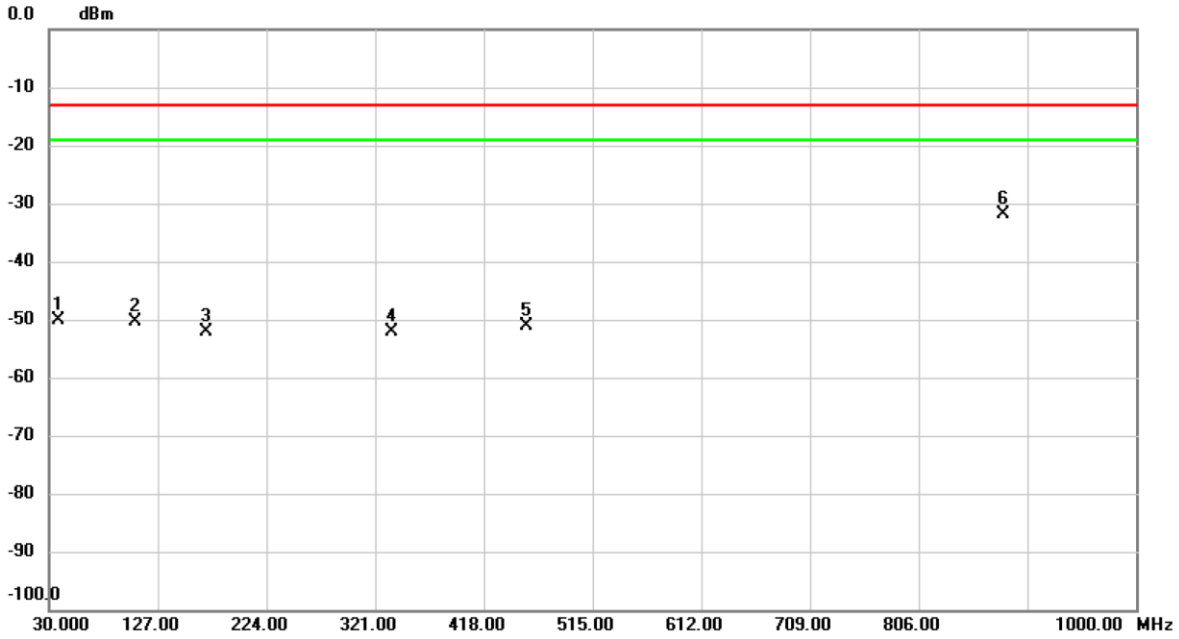
Test Mode	LTE Band 5	Test Date	2020/6/1
Test Channel	CH20525	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		56.1900	-59.42	1.51	-57.91	-13.00	-44.91	peak	
2		104.6900	-60.69	2.69	-58.00	-13.00	-45.00	peak	
3		195.8700	-61.11	5.31	-55.80	-13.00	-42.80	peak	
4		275.4100	-64.94	9.82	-55.12	-13.00	-42.12	peak	
5		335.5500	-64.88	9.07	-55.81	-13.00	-42.81	peak	
6	*	877.7800	-48.03	12.51	-35.52	-13.00	-22.52	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2020/6/1
Test Channel	CH20525	Polarization	Horizontal

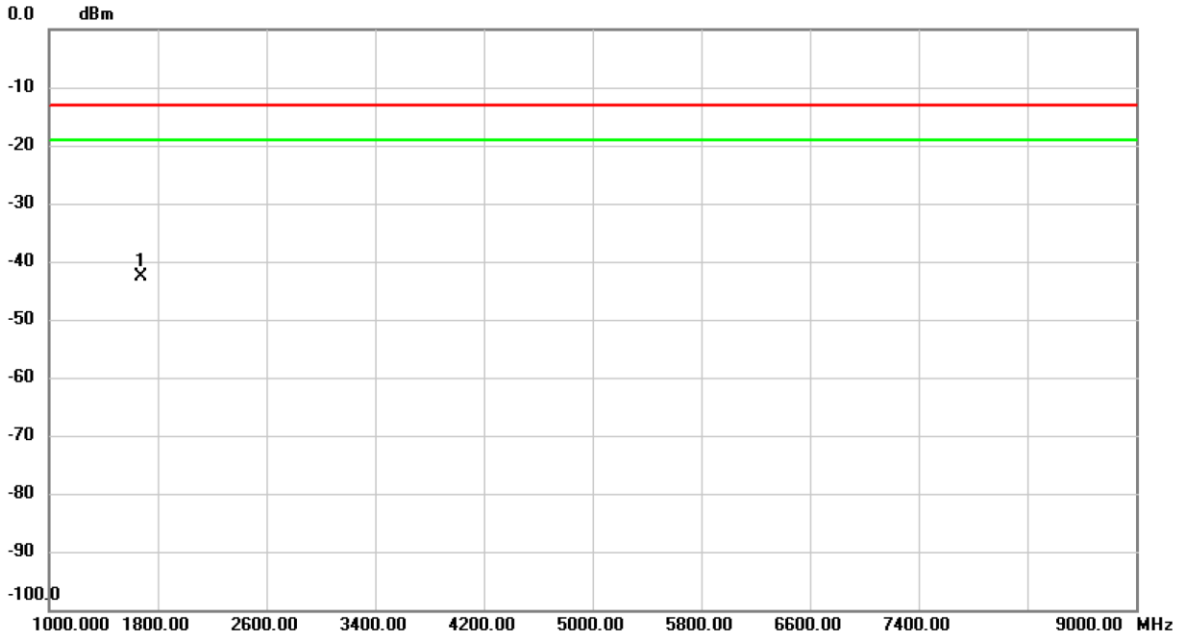


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		38.7300	-68.76	18.68	-50.08	-13.00	-37.08	peak	
2		106.6300	-55.88	5.52	-50.36	-13.00	-37.36	peak	
3		170.6500	-56.42	4.27	-52.15	-13.00	-39.15	peak	
4		335.5500	-57.40	5.30	-52.10	-13.00	-39.10	peak	
5		455.8300	-68.36	17.16	-51.20	-13.00	-38.20	peak	
6	*	881.6600	-50.06	18.13	-31.93	-13.00	-18.93	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

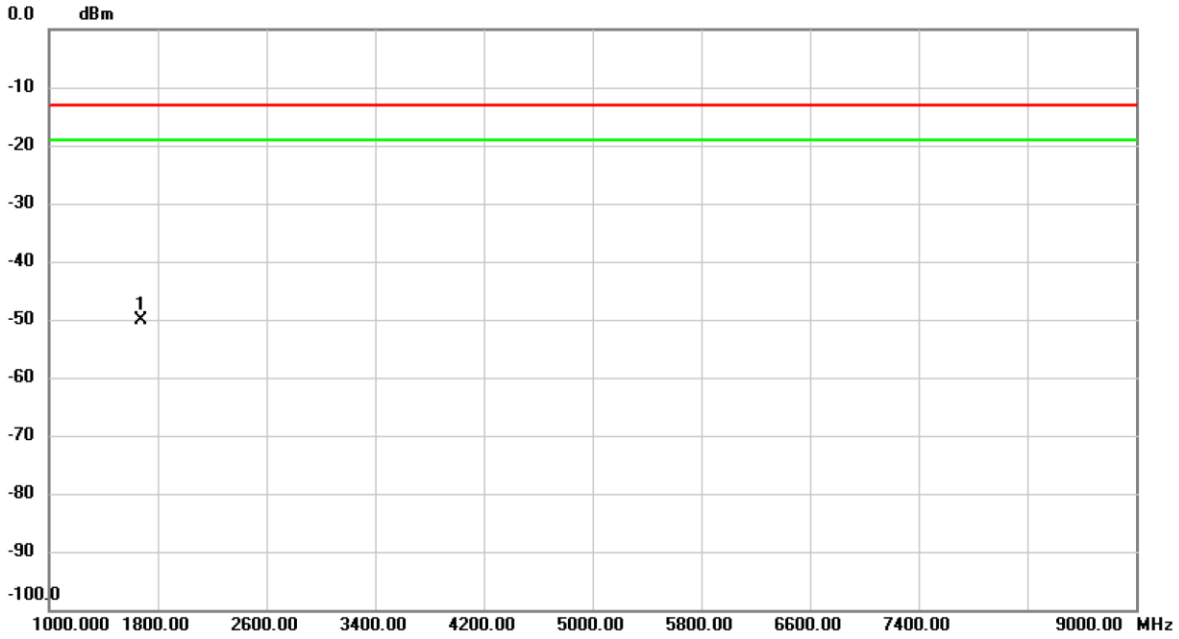
Test Mode	WCDMA Band V	Test Date	2020/6/1
Test Channel	CH4183	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-35.59	-6.97	-42.56	-13.00	-29.56	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

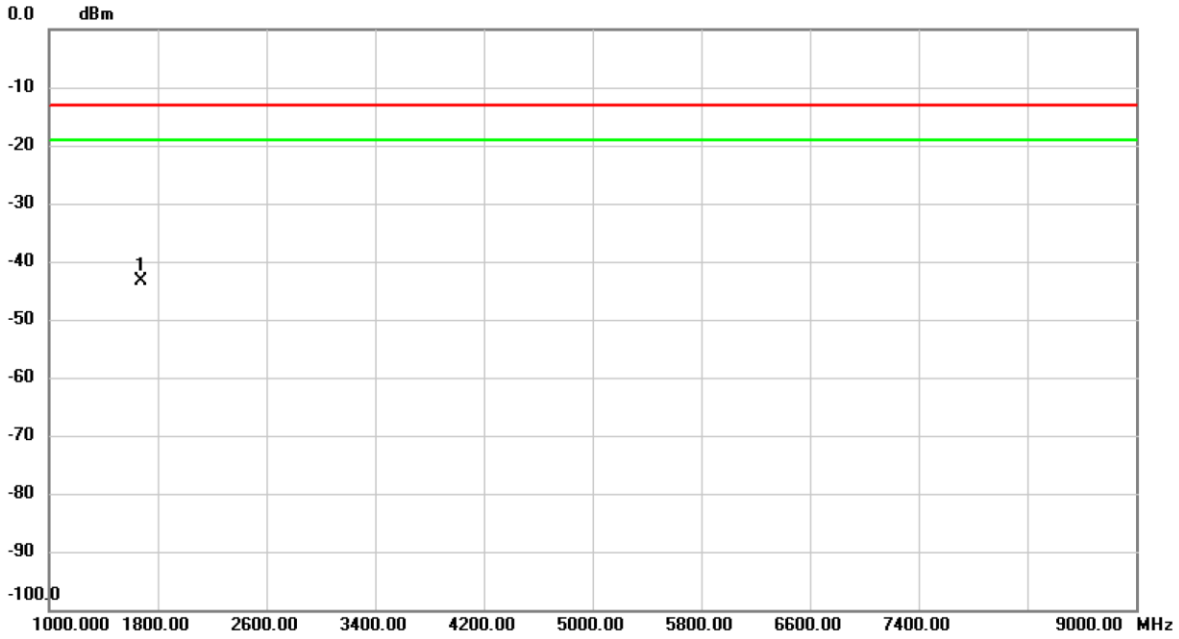
Test Mode	WCDMA Band V	Test Date	2020/6/1
Test Channel	CH4183	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-43.06	-7.09	-50.15	-13.00	-37.15	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

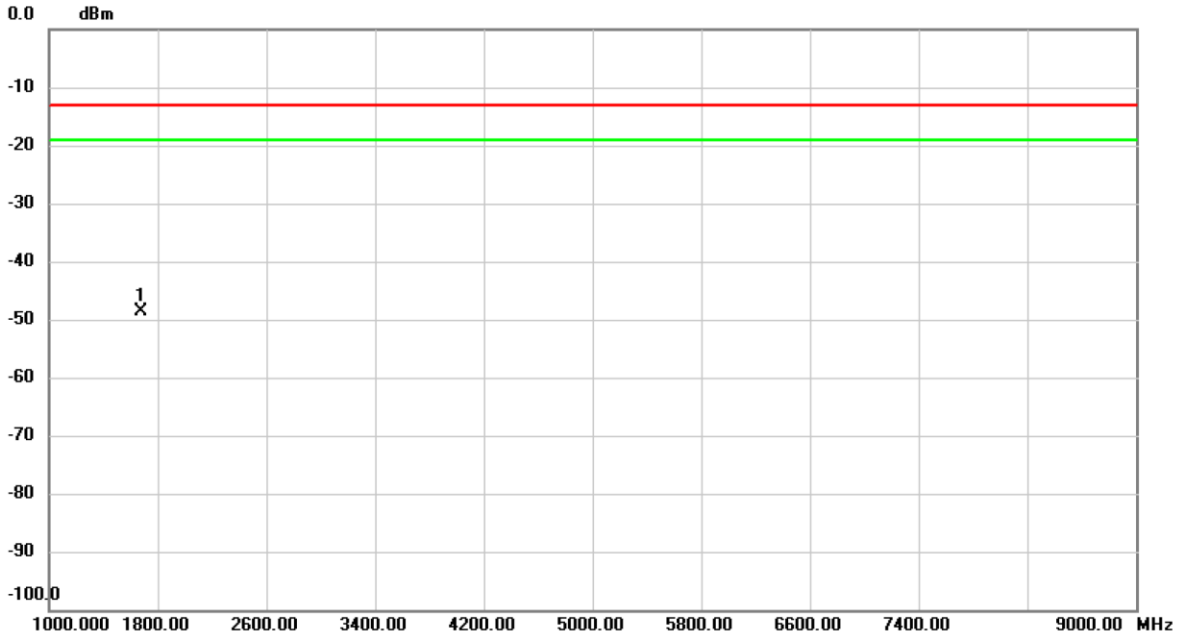
Test Mode	LTE Band 5	Test Date	2020/6/1
Test Channel	CH20525	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-36.48	-6.97	-43.45	-13.00	-30.45	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2020/6/1
Test Channel	CH20525	Polarization	Horizontal

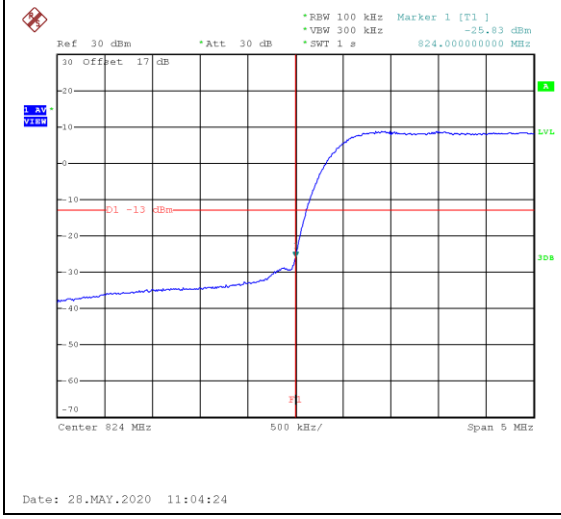


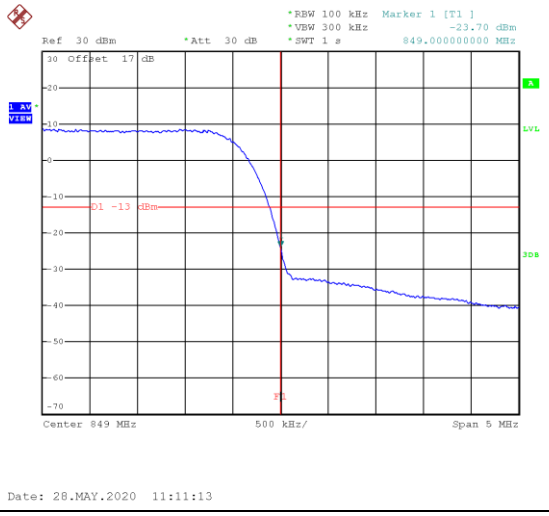
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-41.59	-7.09	-48.68	-13.00	-35.68	peak	

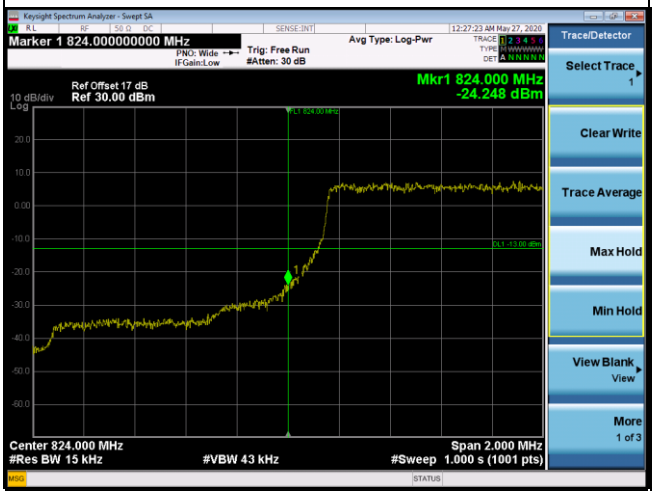
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

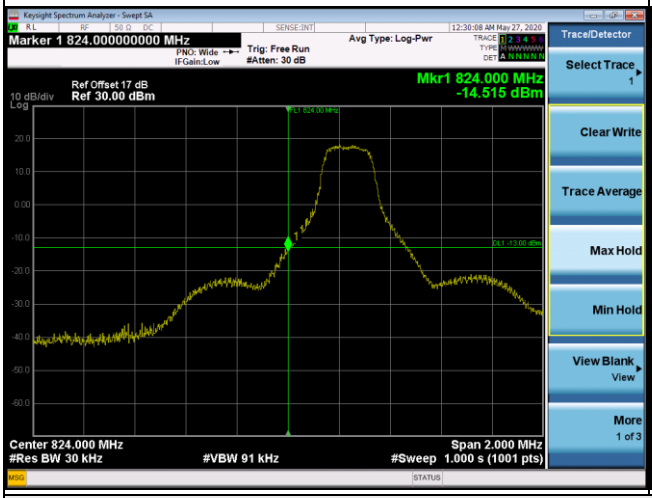
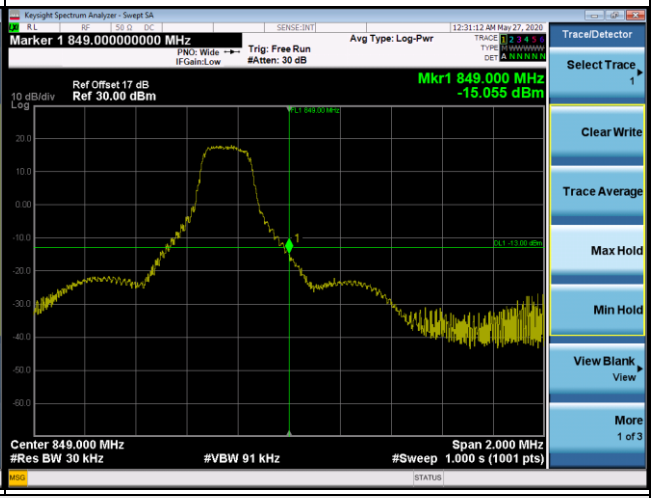
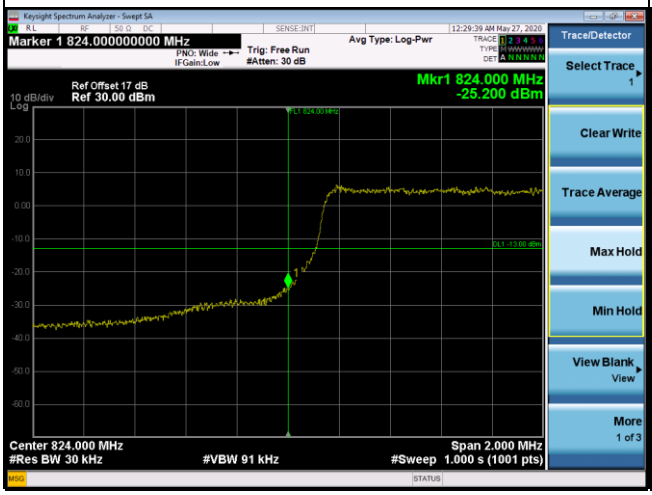
APPENDIX F - BAND EDGE

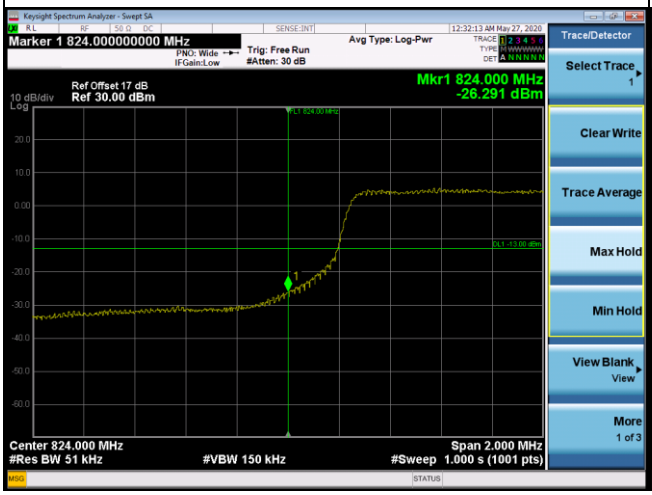
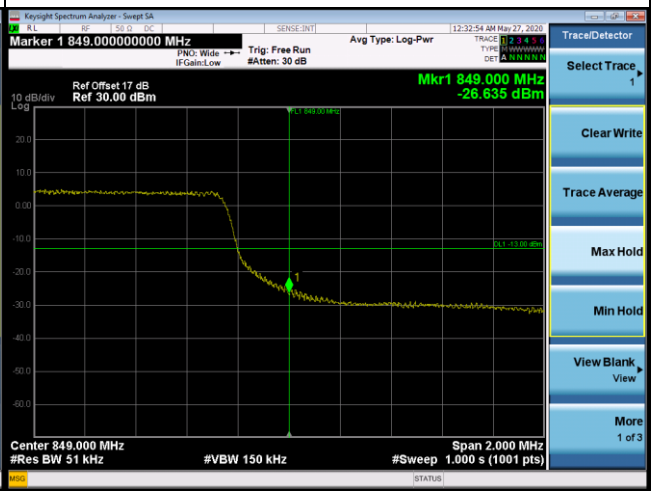
WCDMA Band V_WCDMA Spectrum Plot			
Channel	4132	Channel	4233

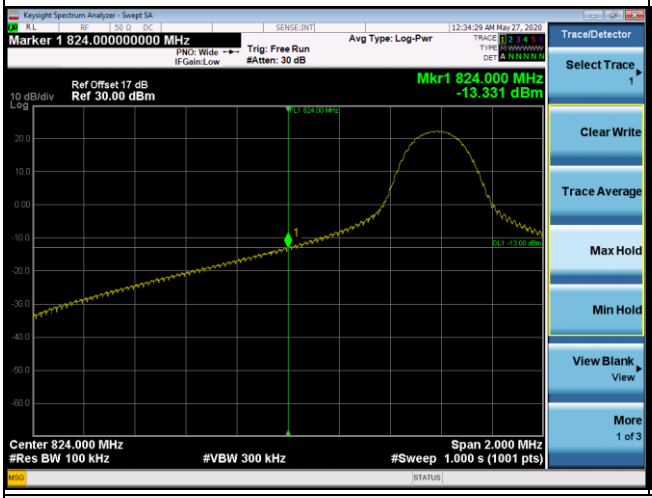




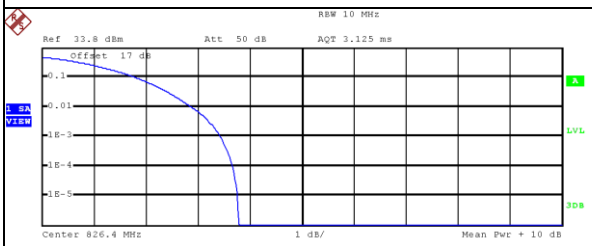
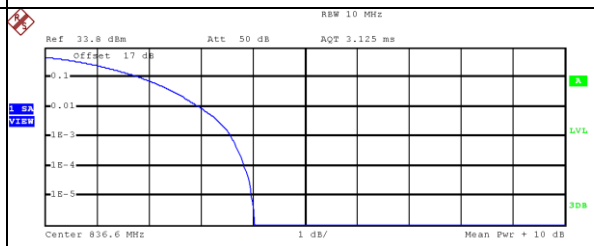
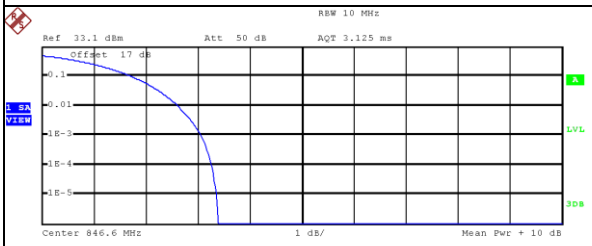
LTE Band 5_1.4M Spectrum Plot			
1RB#0		1RB#5	
Channel	20407	Channel	20643
			
6RB#0			
Channel	20407	Channel	20643
			

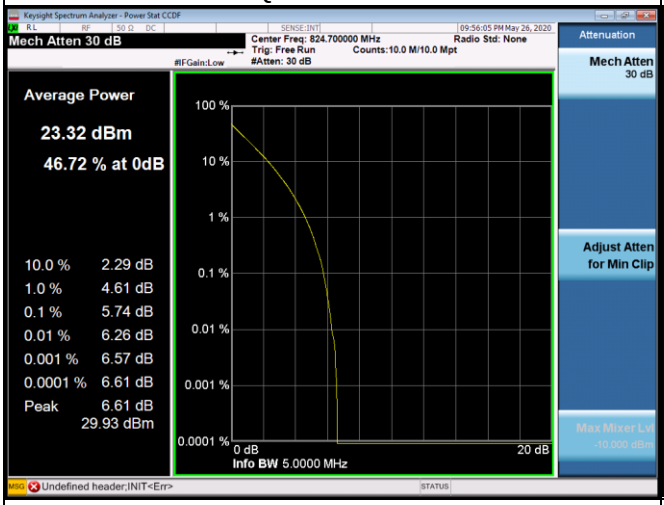
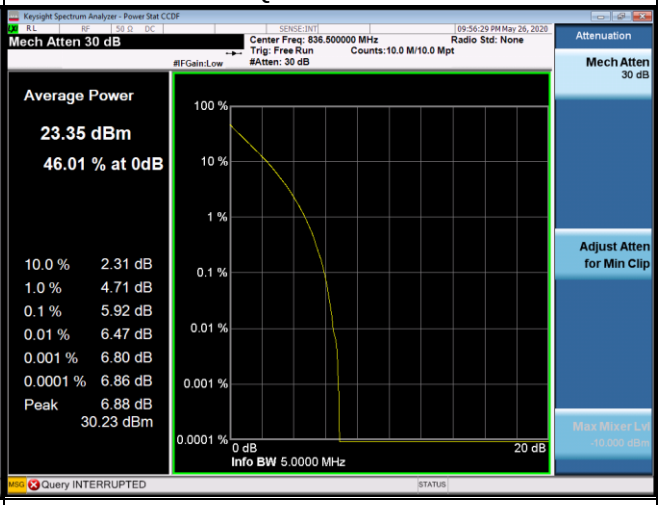
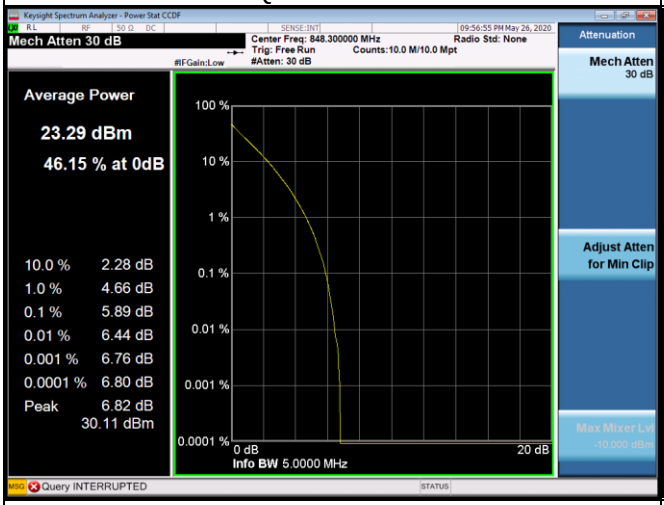
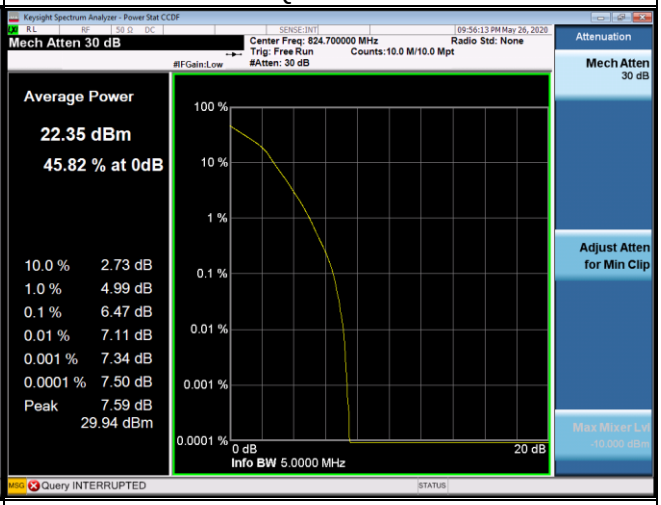
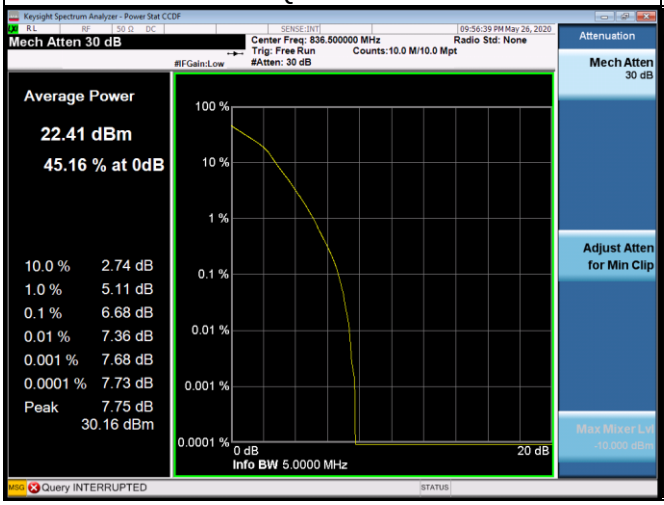
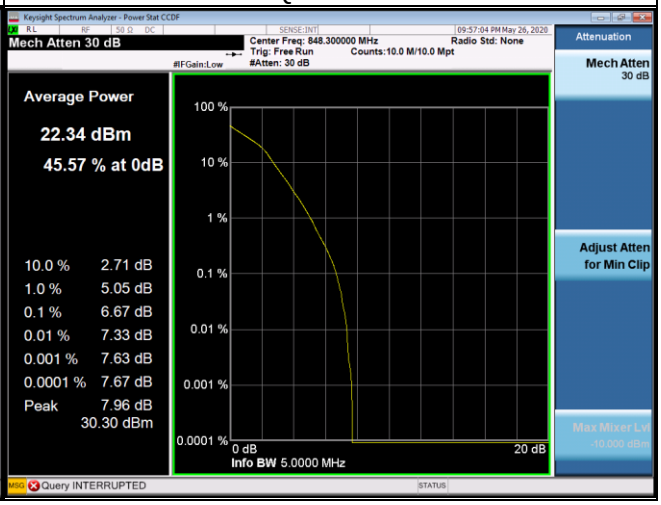
LTE Band 5_3M Spectrum Plot			
1RB#0		1RB#14	
Channel	20415	Channel	20635
			
15RB#0			
Channel	20415	Channel	20635
			

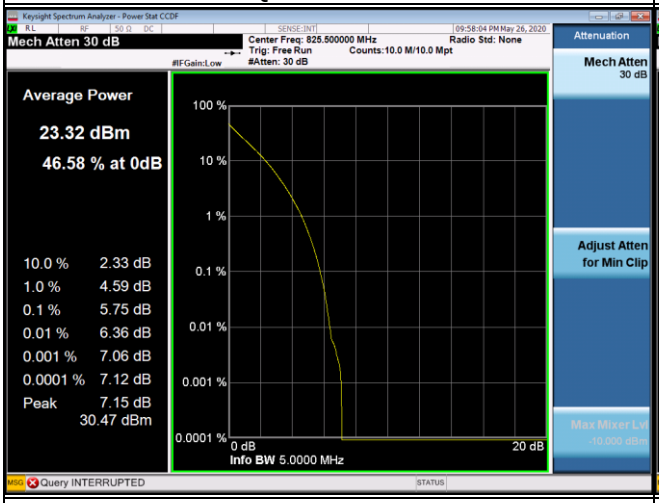
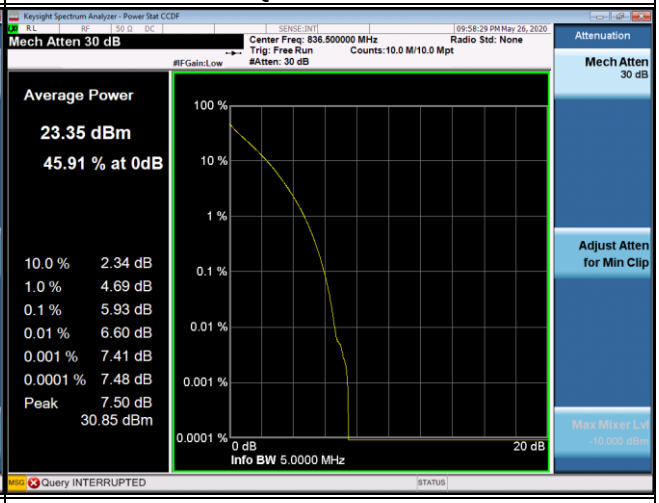
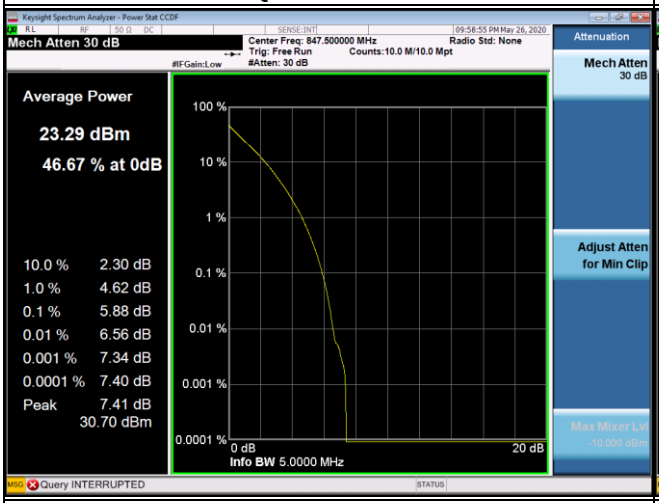
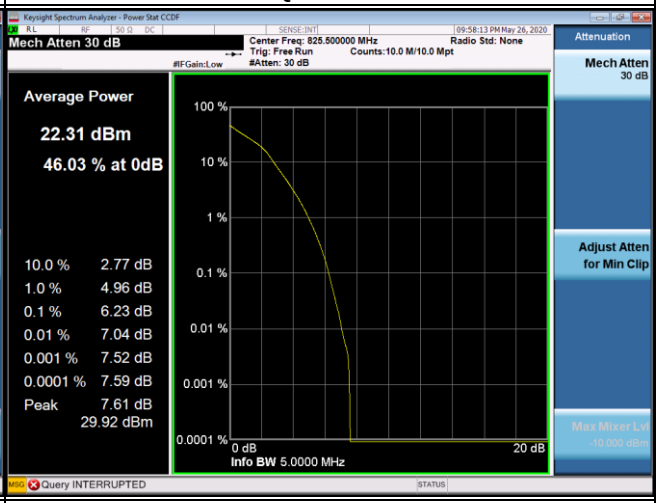
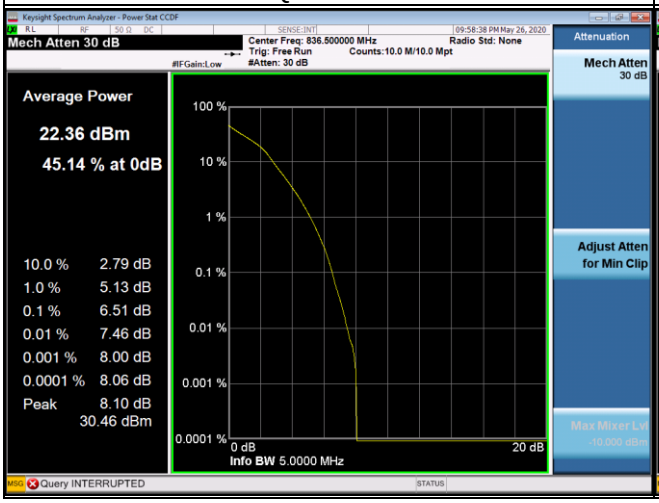
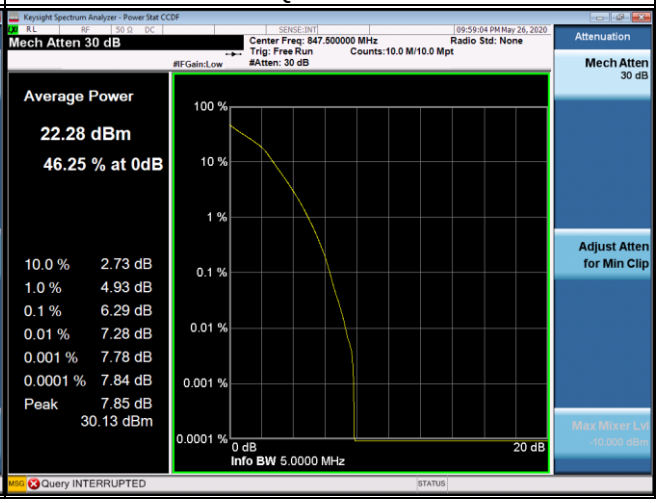
LTE Band 5_5M Spectrum Plot			
1RB#0		1RB#24	
Channel	20425	Channel	20625
			
25RB#0			
Channel	20425	Channel	20625
			

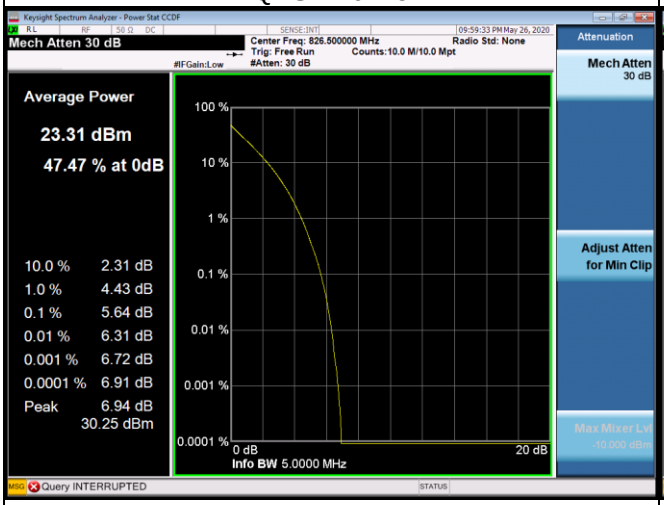
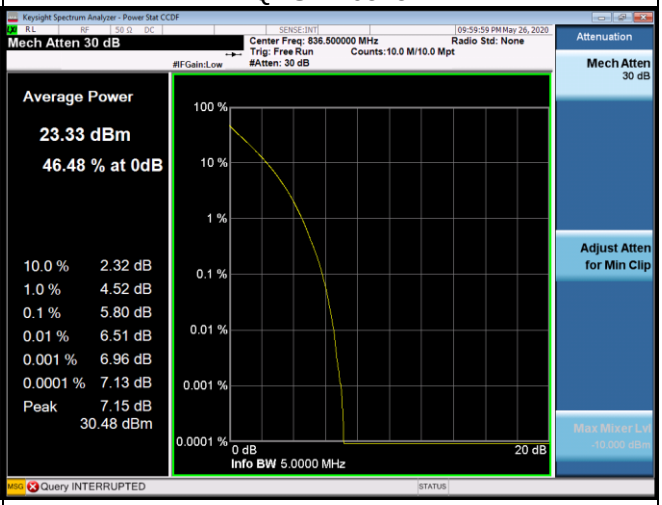
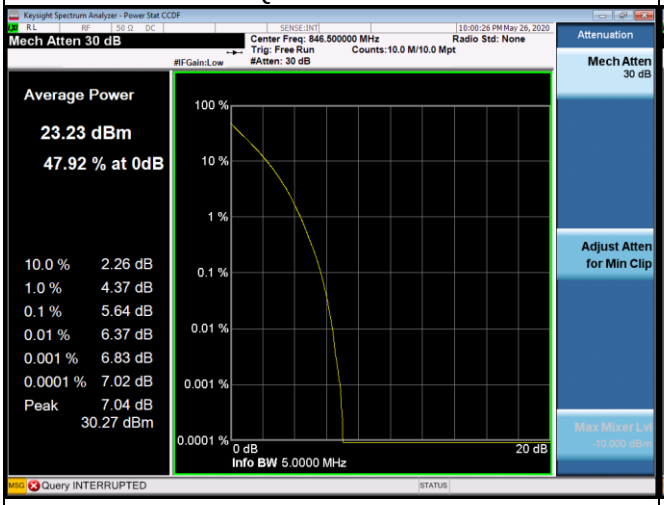
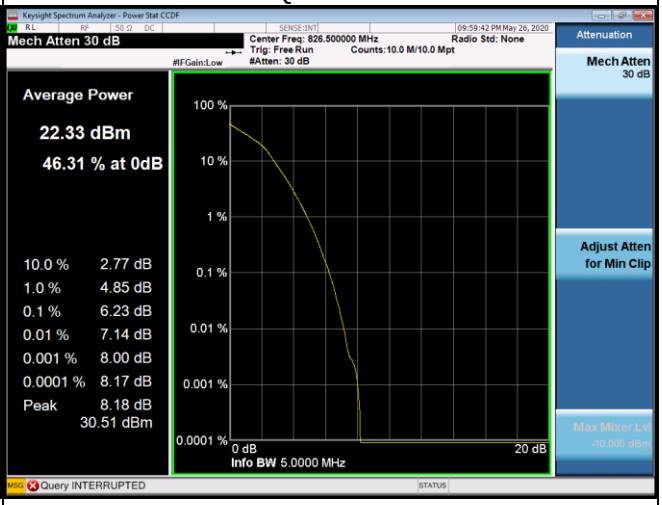
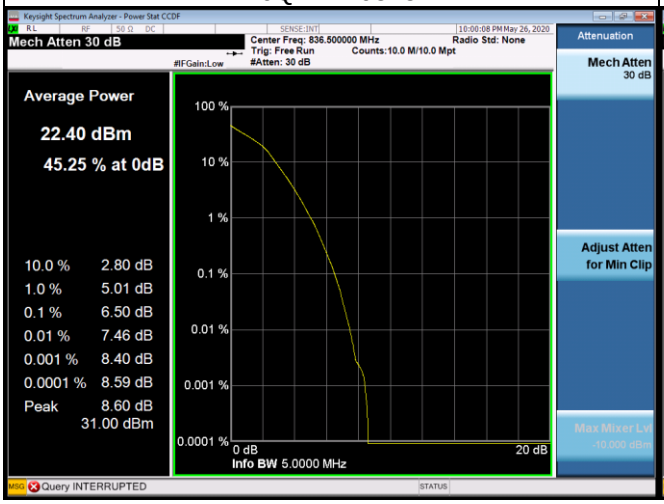
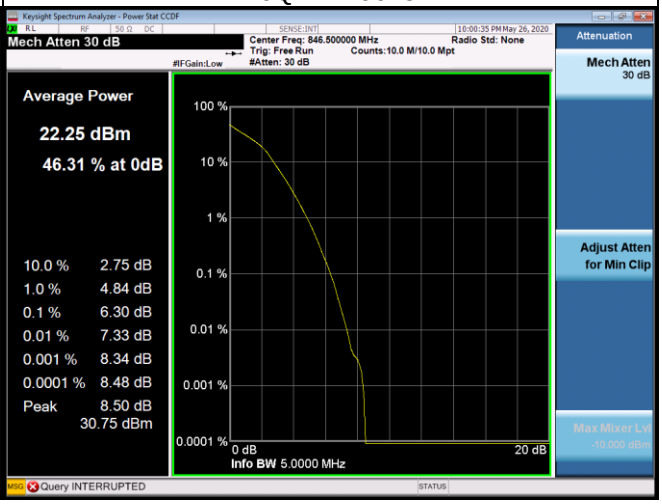
LTE Band 5_10M Spectrum Plot			
1RB#0		1RB#49	
Channel	20450	Channel	20600
			
50RB#0			
Channel	20450	Channel	20600
			

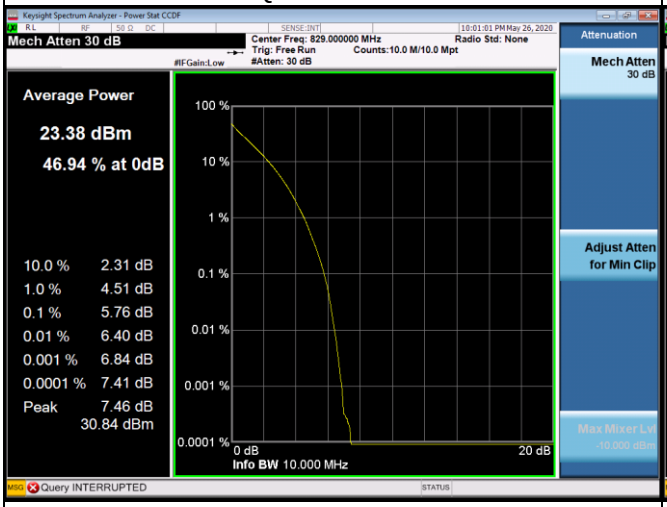
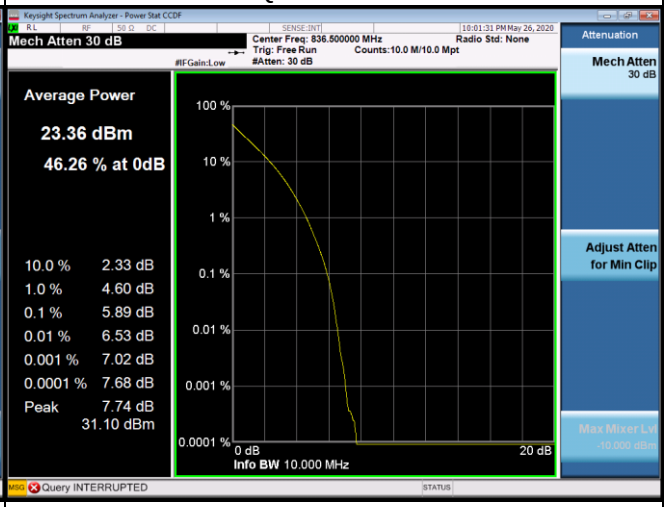
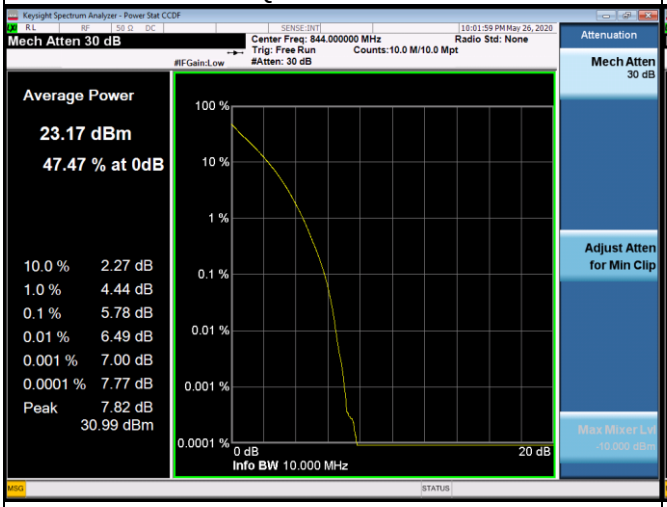
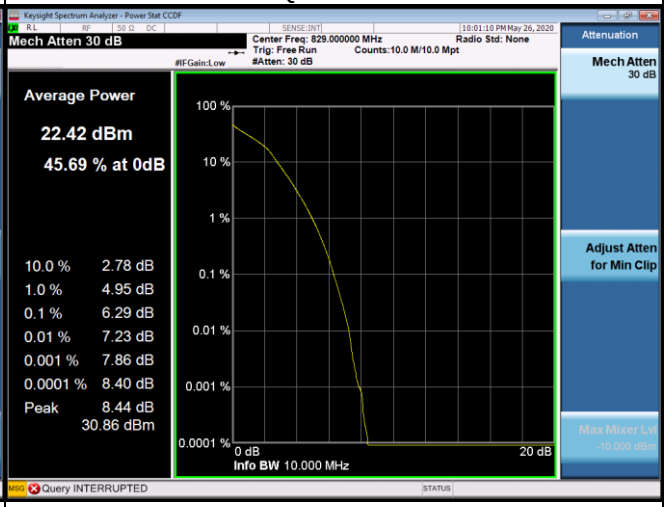
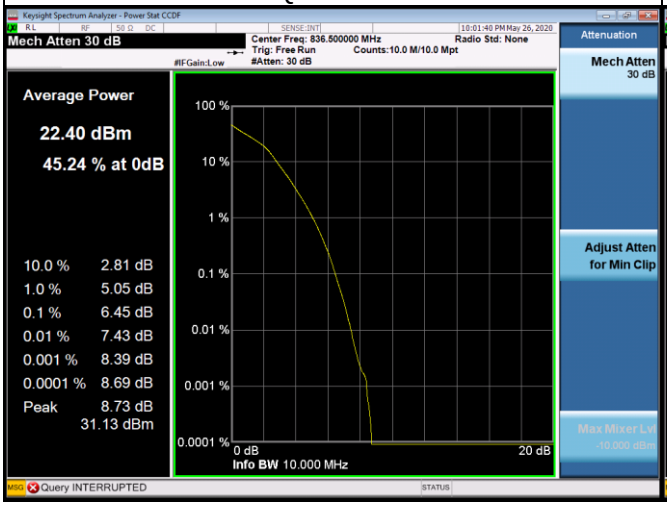
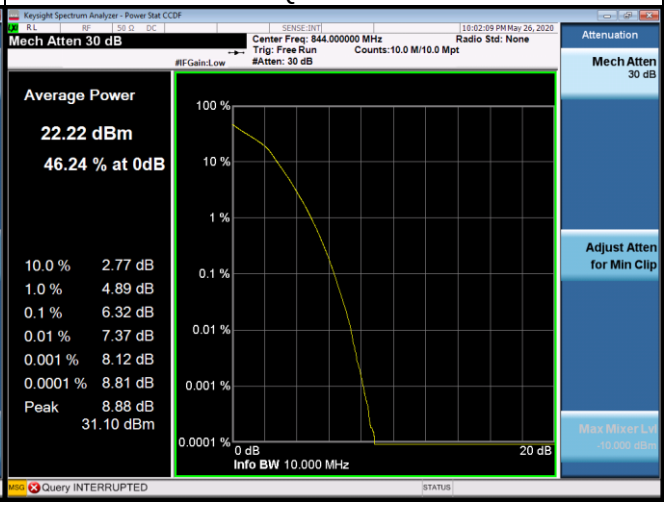
APPENDIX G - PEAK TO AVERAGE RATIO

WCDMA Band V_WCDMA Spectrum Plot	
4132	4183
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.68 dBm Peak 28.46 dBm Crest 3.78 dB 10 % 1.84 dB 1 % 2.90 dB .1 % 3.44 dB .01 % 3.68 dB Date: 27.MAY.2020 20:34:35	 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.77 dBm Peak 28.81 dBm Crest 4.04 dB 10 % 1.86 dB 1 % 3.00 dB .1 % 3.60 dB .01 % 3.84 dB Date: 27.MAY.2020 20:32:36
4233	-
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.68 dBm Peak 28.06 dBm Crest 3.38 dB 10 % 1.76 dB 1 % 2.62 dB .1 % 3.08 dB .01 % 3.26 dB Date: 27.MAY.2020 20:28:11	-

LTE Band 5_1.4M Spectrum Plot	
QPSK-20407	QPSK-20525
	
QPSK-20643	16QAM-20407
	
16QAM-20525	16QAM-20643
	

LTE Band 5_3M Spectrum Plot	
QPSK-20415	QPSK-20525
	
QPSK-20635	16QAM-20415
	
16QAM-20525	16QAM-20635
	

LTE Band 5_5M Spectrum Plot	
QPSK-20425	QPSK-20525
	
QPSK-20625	16QAM-20425
	
16QAM-20525	16QAM-20625
	

LTE Band 5_10M Spectrum Plot	
QPSK-20450	QPSK-20525
	
QPSK-20600	16QAM-20450
	
16QAM-20525	16QAM-20600
	

APPENDIX H - FREQUENCY STABILITY

Test Mode	WCDMA Band V_CH4183

Temperature vs. Frequency Stabiility

Temperature(°C)	Frequency Error (ppm)	Limit(ppm)
-40	-0.0037	±2.5
-30	-0.0033	
-20	-0.0024	
-10	-0.0007	
0	-0.0037	
10	0.0004	
20	0.0049	
30	-0.0052	
40	0.0055	
50	0.0012	
60	-0.0024	
70	-0.0031	
80	0.0077	
90	0.0016	
100	-0.0076	
105	-0.0014	
Max. Deviation (ppm)	0.0077	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (ppm)	Limit(ppm)
High Voltage	-0.0003	±2.5
Normal Voltage	-0.0087	
Low Voltage	-0.0006	
Max. Deviation (ppm)	-0.0087	

Test Mode	LTE Band 5_CH20525_1.4M

Temperature vs. Frequency Stabiility

Temperature(°C)	Frequency Error (ppm)	Limit(ppm)
-40	0.0016	±2.5
-30	0.0051	
-20	0.0047	
-10	-0.0039	
0	-0.0082	
10	0.0050	
20	-0.0021	
30	-0.0085	
40	0.0070	
50	0.0074	
60	-0.0011	
70	0.0005	
80	0.0009	
90	0.0037	
100	0.0039	
105	0.0033	
Max. Deviation (ppm)	-0.0085	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (ppm)	Limit(ppm)
High Voltage	-0.0072	±2.5
Normal Voltage	-0.0044	
Low Voltage	-0.0015	
Max. Deviation (ppm)	-0.0072	

Test Mode	LTE Band 5_CH20525_3M

Temperature vs. Frequency Stabiility

Temperature(°C)	Frequency Error (ppm)	Limit(ppm)
-40	-0.0082	±2.5
-30	0.0040	
-20	0.0061	
-10	-0.0063	
0	0.0033	
10	0.0039	
20	0.0078	
30	-0.0079	
40	0.0033	
50	-0.0021	
60	0.0006	
70	-0.0082	
80	0.0088	
90	-0.0010	
100	-0.0090	
105	-0.0049	
Max. Deviation (ppm)	-0.0090	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (ppm)	Limit(ppm)
High Voltage	-0.0007	±2.5
Normal Voltage	0.0031	
Low Voltage	-0.0024	
Max. Deviation (ppm)	0.0031	

Test Mode	LTE Band 5_CH20525_5M

Temperature vs. Frequency Stabiility

Temperature(°C)	Frequency Error (ppm)	Limit(ppm)
-40	-0.0090	±2.5
-30	-0.0075	
-20	-0.0088	
-10	-0.0009	
0	0.0050	
10	-0.0080	
20	-0.0038	
30	-0.0029	
40	-0.0065	
50	0.0045	
60	-0.0076	
70	-0.0064	
80	0.0087	
90	-0.0060	
100	0.0036	
105	0.0006	
Max. Deviation (ppm)	-0.0090	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (ppm)	Limit(ppm)
High Voltage	0.0044	±2.5
Normal Voltage	-0.0080	
Low Voltage	-0.0028	
Max. Deviation (ppm)	-0.0080	

Test Mode	LTE Band 5_CH20525_10M

Temperature vs. Frequency Stabiility

Temperature(°C)	Frequency Error (ppm)	Limit(ppm)
-40	-0.0087	±2.5
-30	-0.0079	
-20	-0.0006	
-10	-0.0023	
0	-0.0053	
10	0.0010	
20	0.0029	
30	0.0016	
40	-0.0040	
50	-0.0059	
60	0.0060	
70	0.0016	
80	-0.0059	
90	0.0051	
100	0.0010	
105	0.0087	
Max. Deviation (ppm)	-0.0087	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (ppm)	Limit(ppm)
High Voltage	0.0008	±2.5
Normal Voltage	-0.0004	
Low Voltage	0.0070	
Max. Deviation (ppm)	0.0070	

End of Test Report