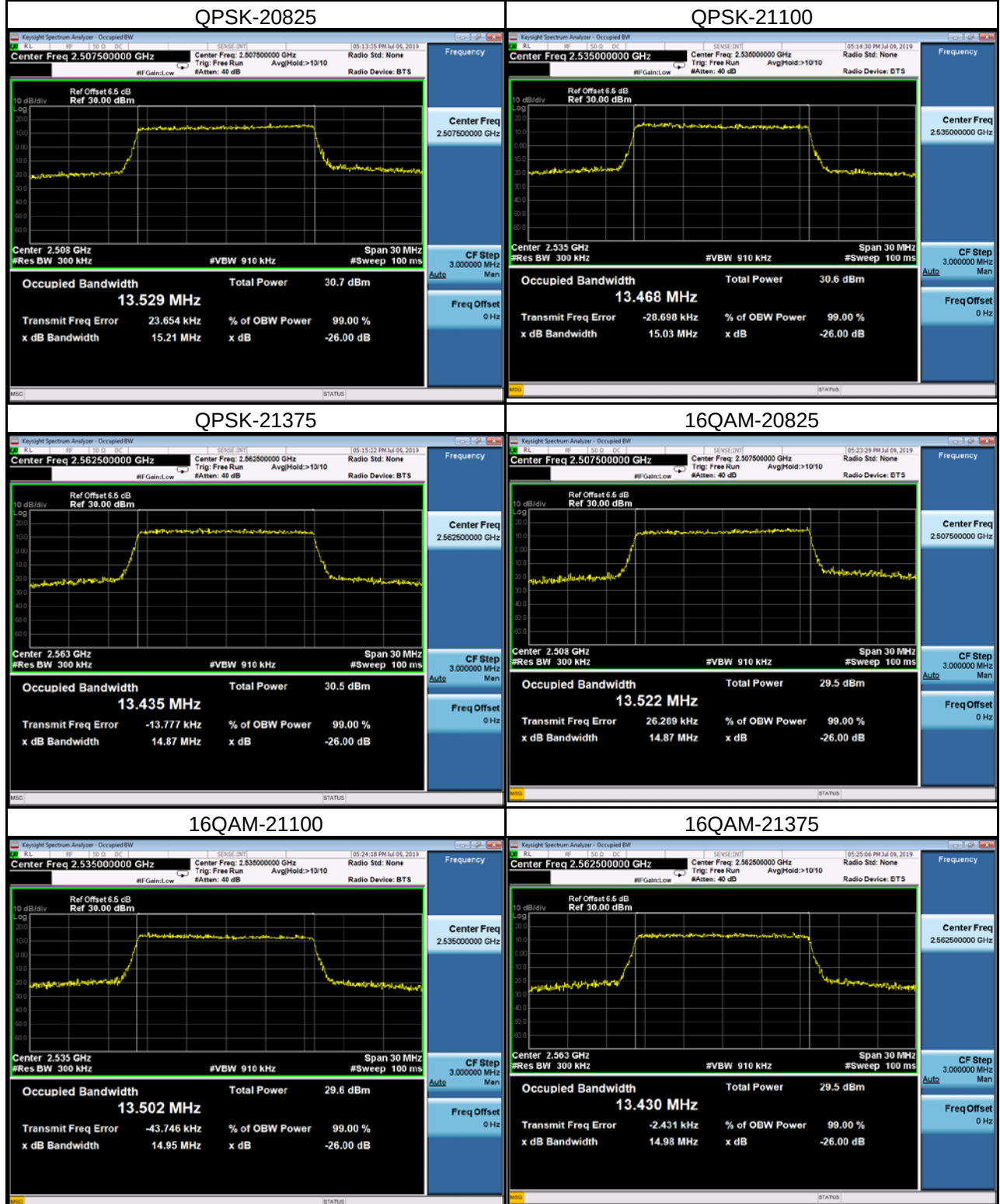
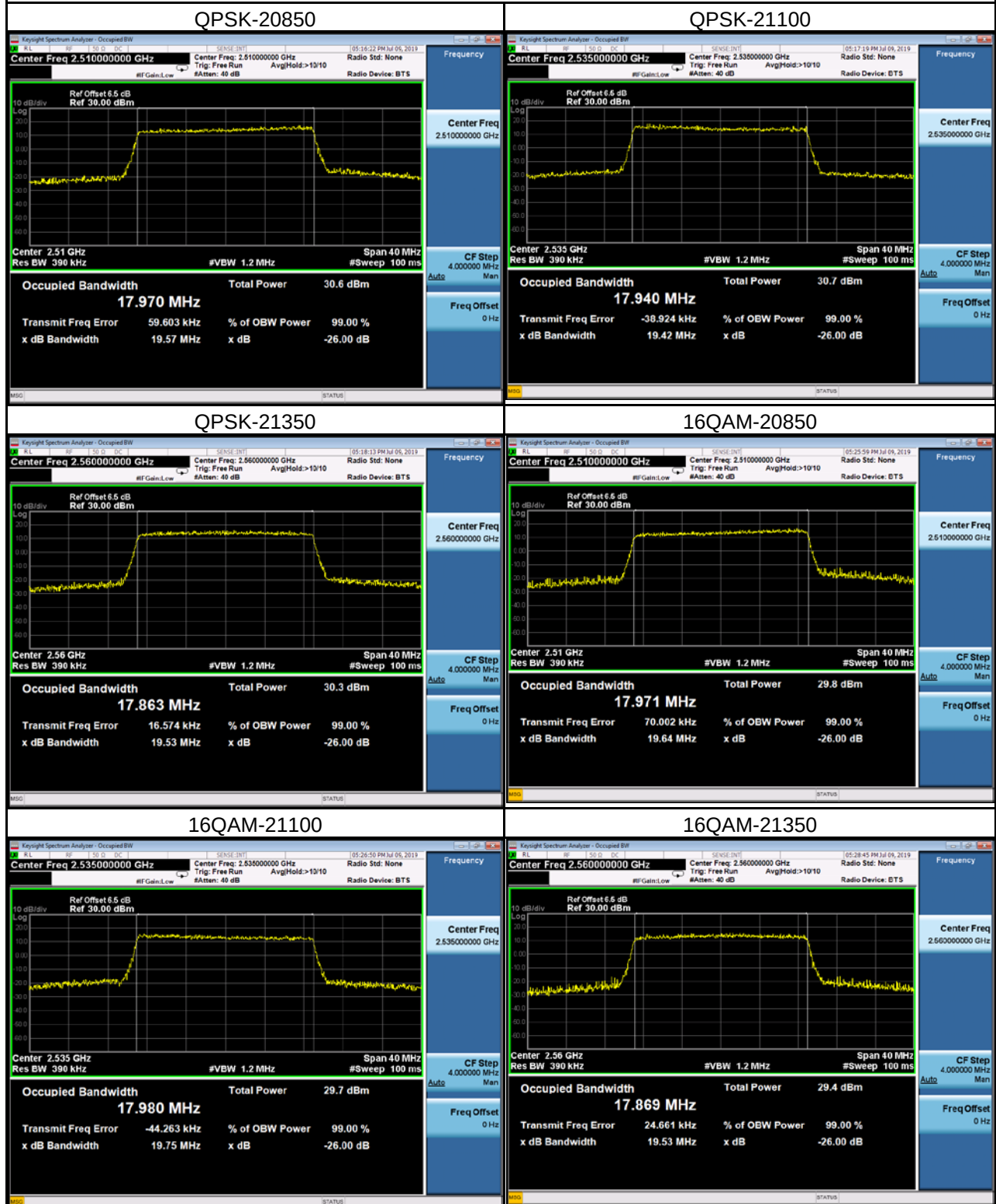


Spectrum Plot



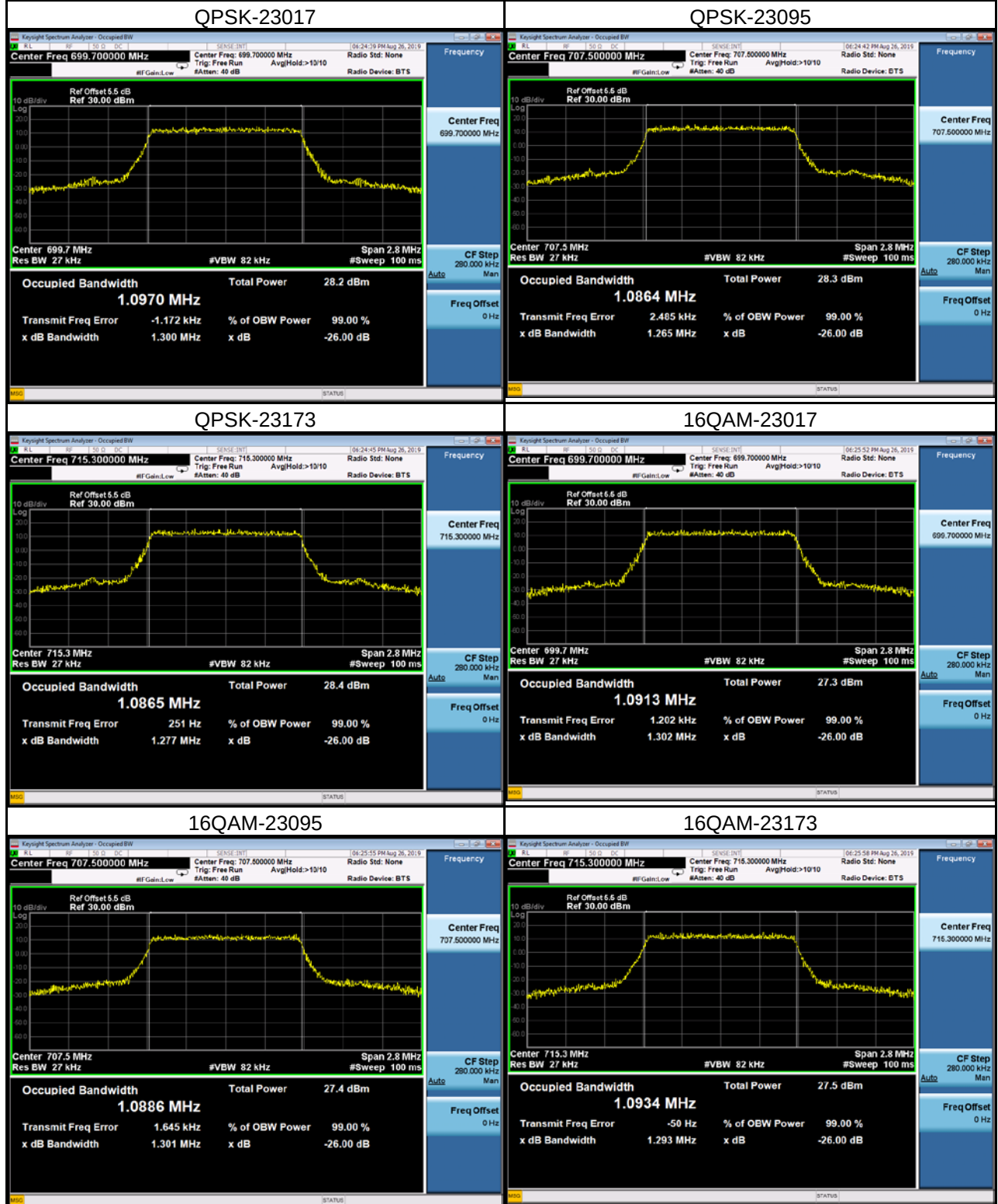
LTE Band 7_20M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
20850	2510	17.9700	20850	2510	17.9710
21100	2535	17.9400	21100	2535	17.9800
21350	2560	17.8630	21350	2560	17.8690
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20850	2510	19.5700	20850	2510	19.6400
21100	2535	19.4200	21100	2535	19.7500
21350	2560	19.5300	21350	2560	19.5300

Spectrum Plot



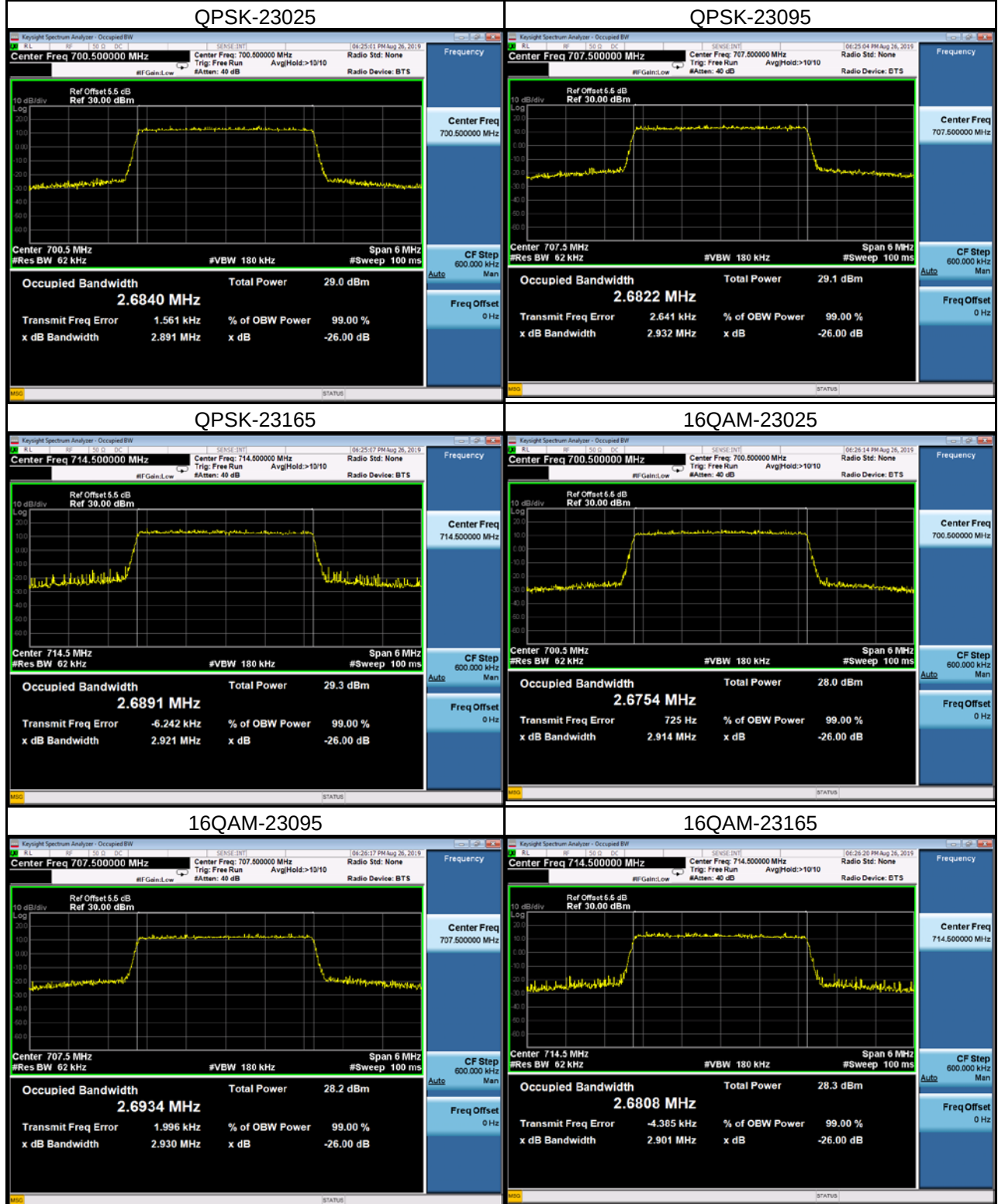
LTE Band 12_1.4M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23017	699.7	1.0970	23017	699.7	1.0913
23095	707.5	1.0864	23095	707.5	1.0886
23173	715.3	1.0865	23173	715.3	1.0934
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23017	699.7	1.3000	23017	699.7	1.3020
23095	707.5	1.2650	23095	707.5	1.3010
23173	715.3	1.2770	23173	715.3	1.2930

Spectrum Plot



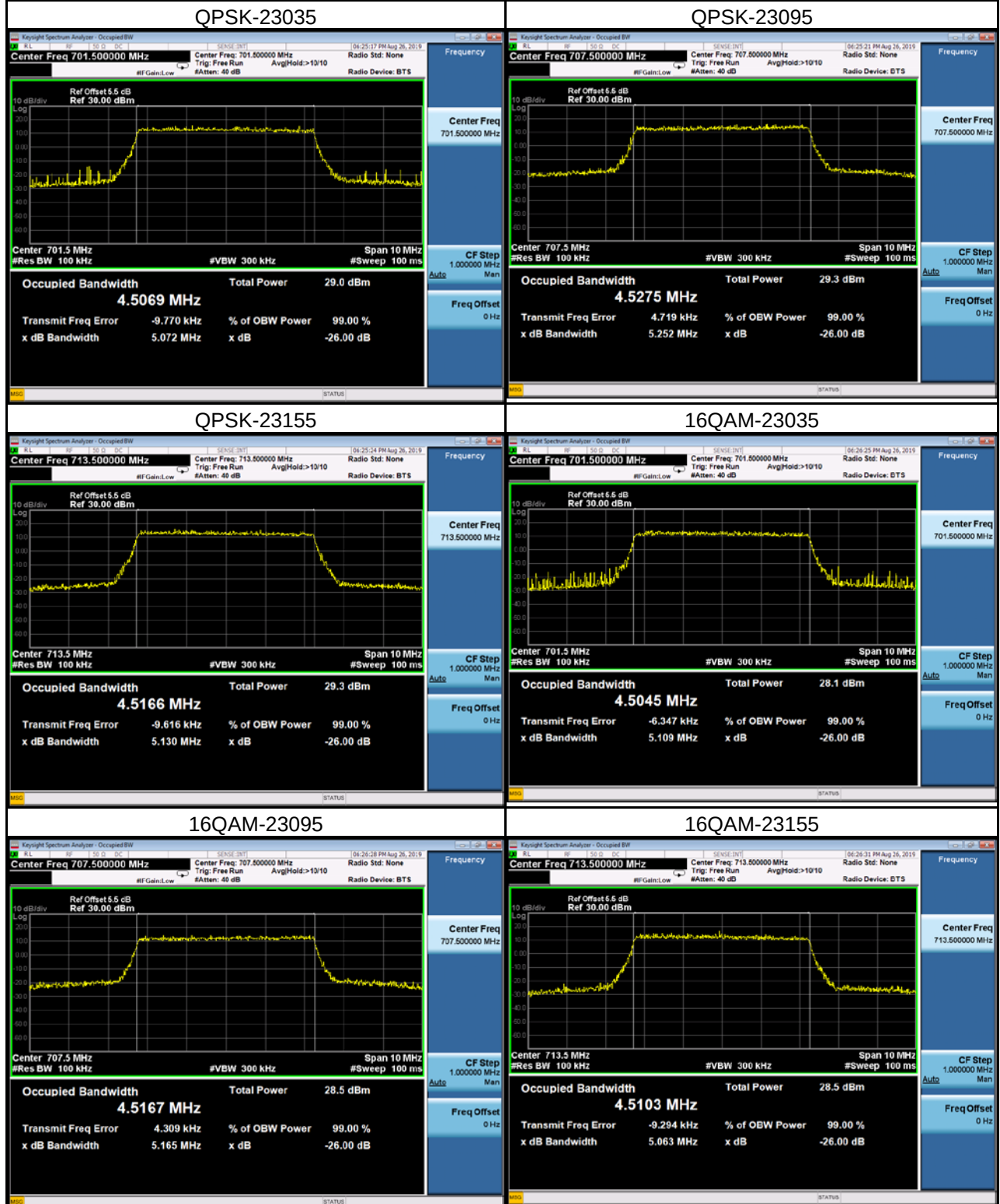
LTE Band 12_3M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23025	700.5	2.6840	23025	700.5	2.6754
23095	707.5	2.6822	23095	707.5	2.6934
23165	714.5	2.6891	23165	714.5	2.6808
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23025	700.5	2.8910	23025	700.5	2.9140
23095	707.5	2.9320	23095	707.5	2.9300
23165	714.5	2.9210	23165	714.5	2.9010

Spectrum Plot



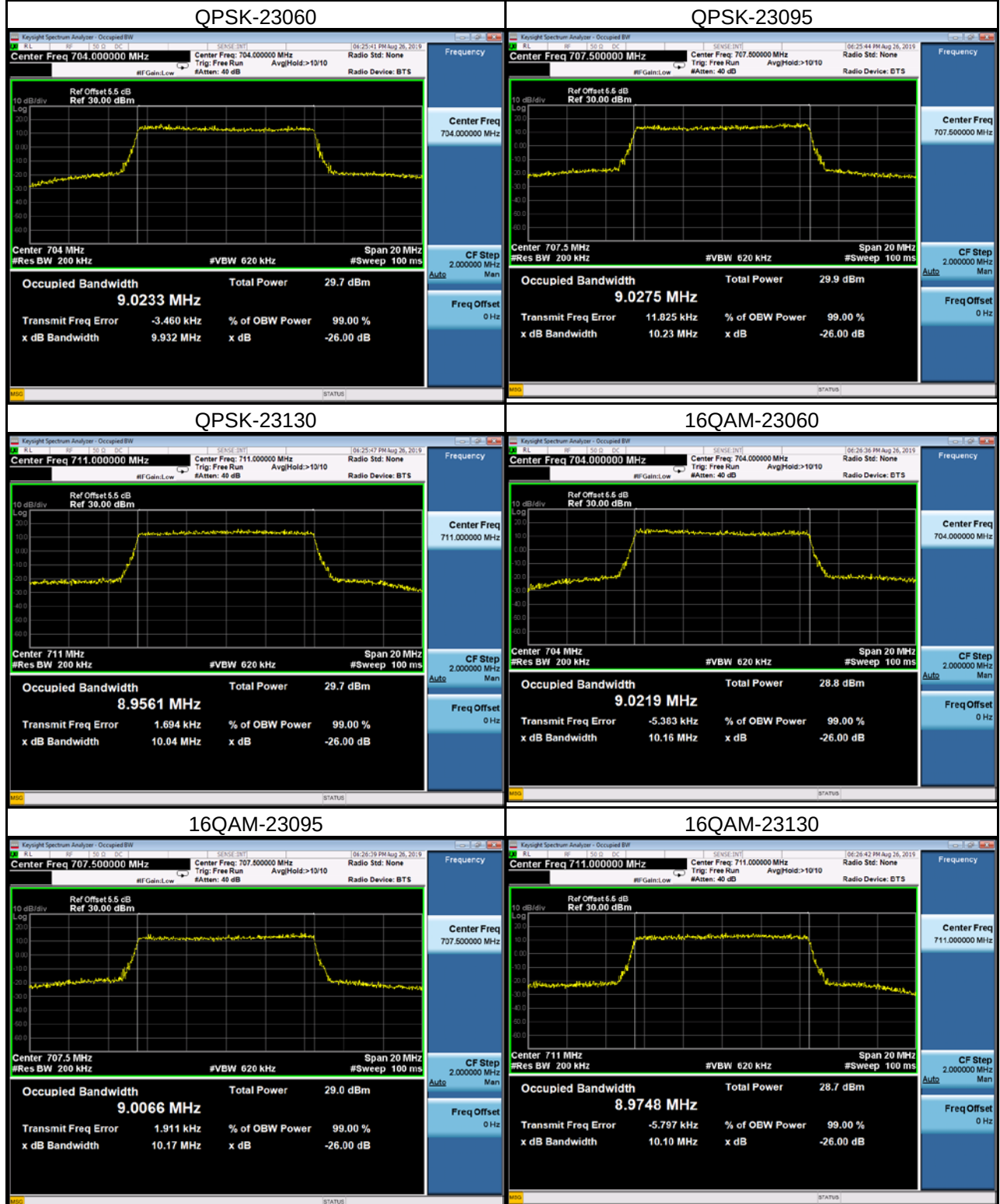
LTE Band 12_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23035	701.5	4.5069	23035	701.5	4.5045
23095	707.5	4.5275	23095	707.5	4.5167
23155	713.5	4.5166	23155	713.5	4.5103
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23035	701.5	5.0720	23035	701.5	5.1090
23095	707.5	5.2520	23095	707.5	5.1650
23155	713.5	5.1300	23155	713.5	5.0630

Spectrum Plot



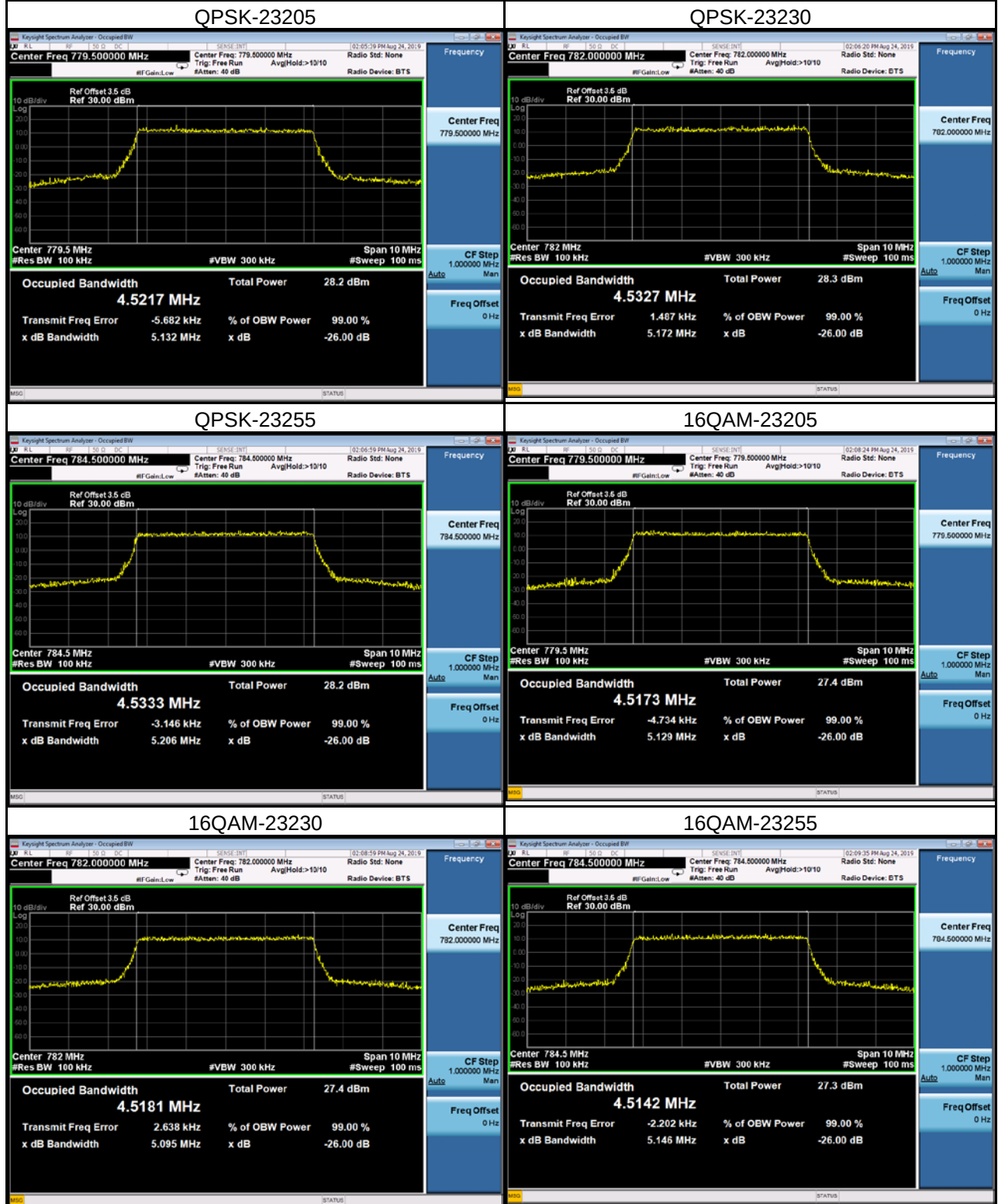
LTE Band 12_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23060	704.0	9.0233	23060	704.0	9.0219
23095	707.5	9.0275	23095	707.5	9.0066
23130	711.0	8.9561	23130	711.0	8.9748
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23060	704.0	9.9320	23060	704.0	10.1600
23095	707.5	10.2300	23095	707.5	10.1700
23130	711.0	10.0400	23130	711.0	10.1000

Spectrum Plot

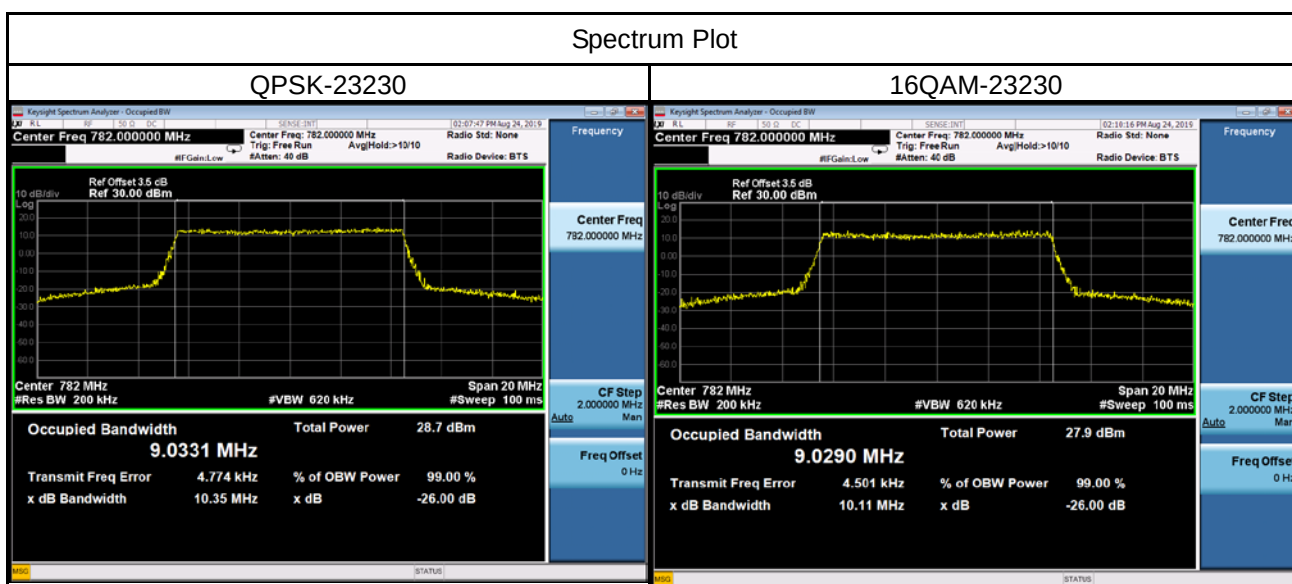


LTE Band 13_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23205	779.5	4.5217	23205	779.5	4.5173
23230	782.0	4.5327	23230	782.0	4.5181
23255	784.5	4.5333	23255	784.5	4.5142
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23205	779.5	5.1320	23205	779.5	5.1290
23230	782.0	5.1720	23230	782.0	5.0950
23255	784.5	5.2060	23255	784.5	5.1460

Spectrum Plot

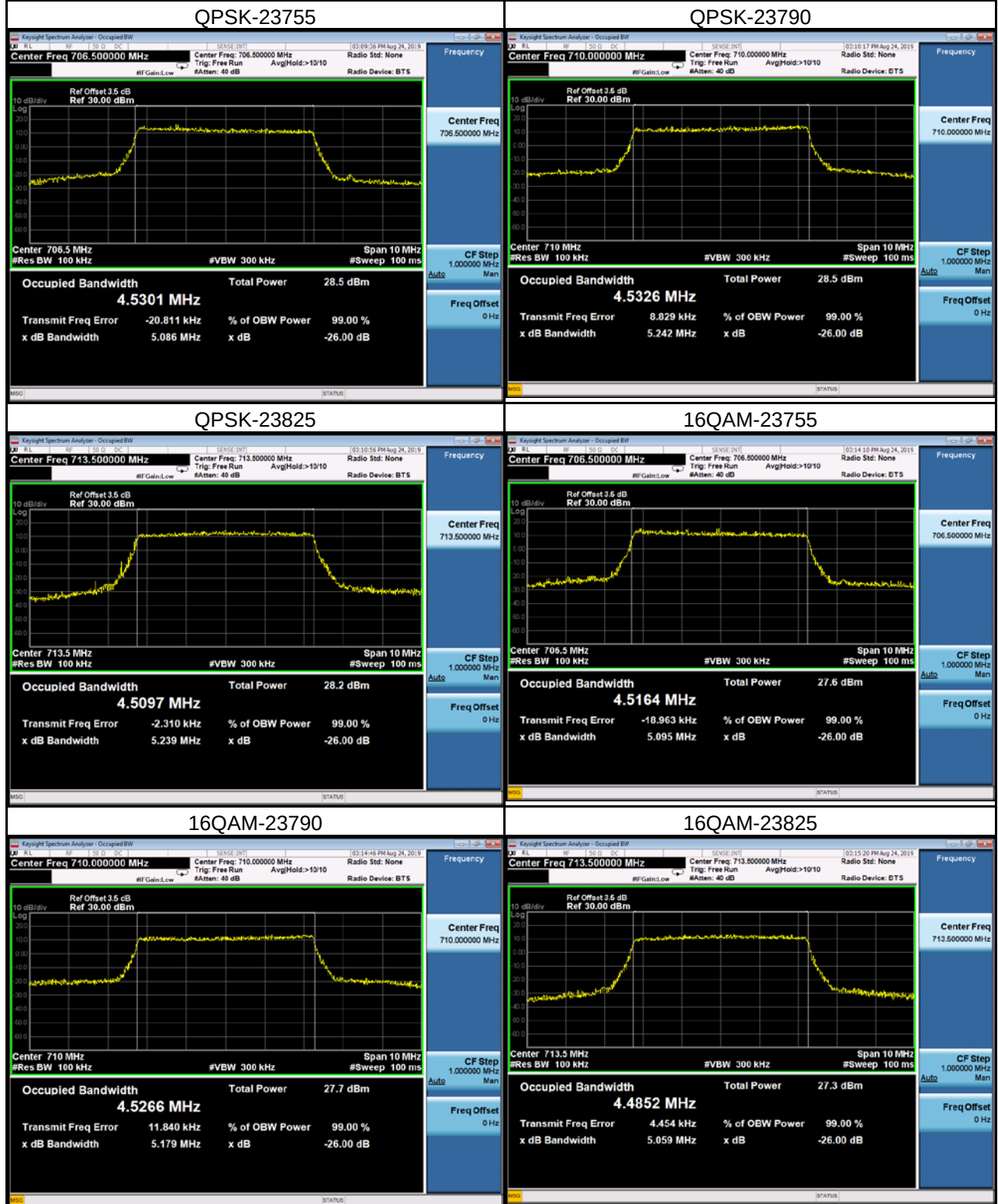


LTE Band 13_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23230	782.0	9.0331	23230	782.0	9.0290
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23230	782.0	10.3500	23230	782.0	10.1100



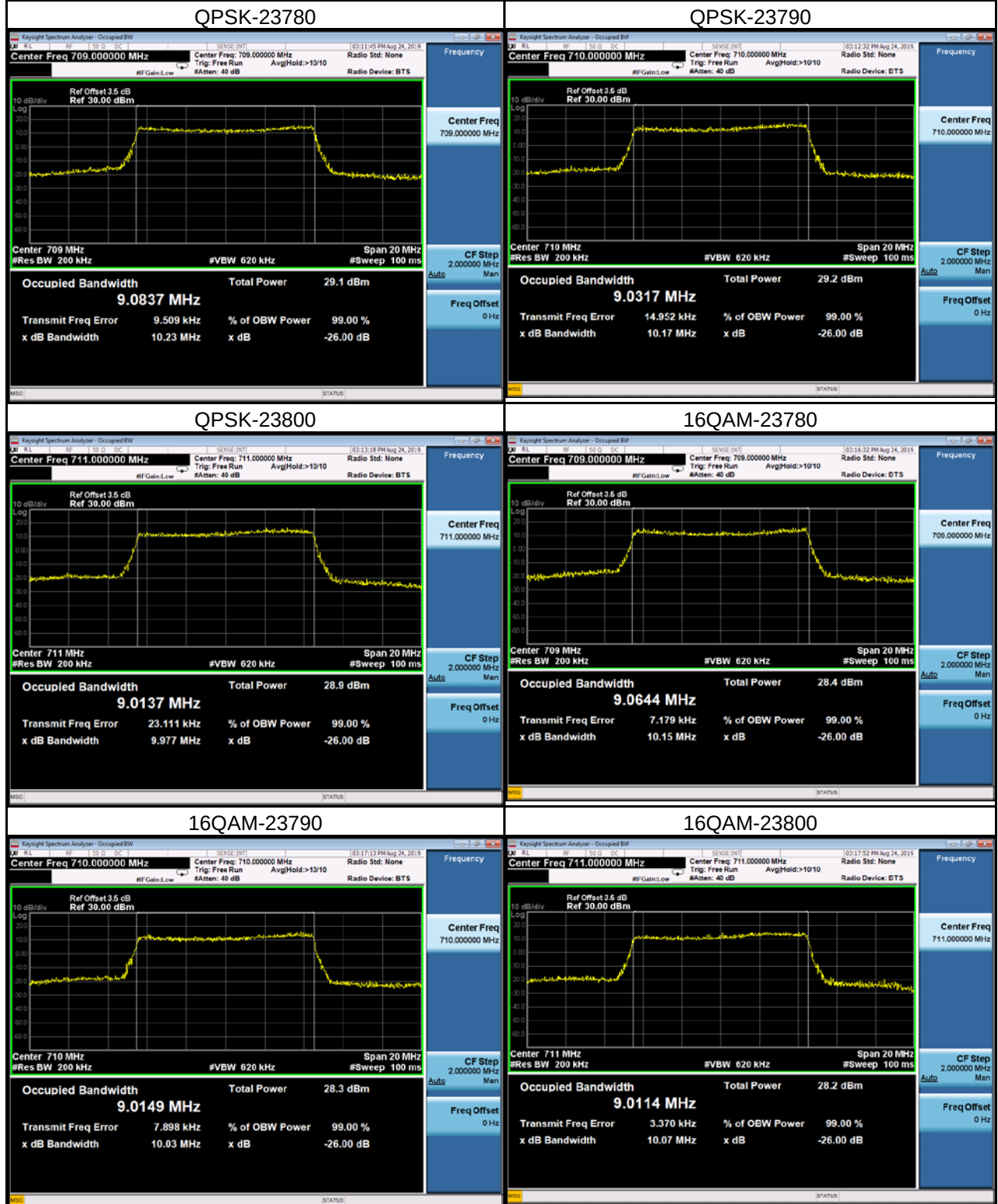
LTE Band 17_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23755	706.5	4.5069	23755	706.5	4.5045
23790	710.0	4.5275	23790	710.0	4.5167
23825	713.5	4.5166	23825	713.5	4.5103
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23755	706.5	5.0720	23755	706.5	5.1090
23790	710.0	5.2520	23790	710.0	5.1650
23825	713.5	5.1300	23825	713.5	5.0630

Spectrum Plot

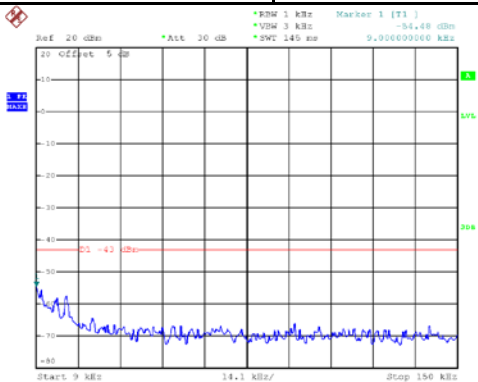
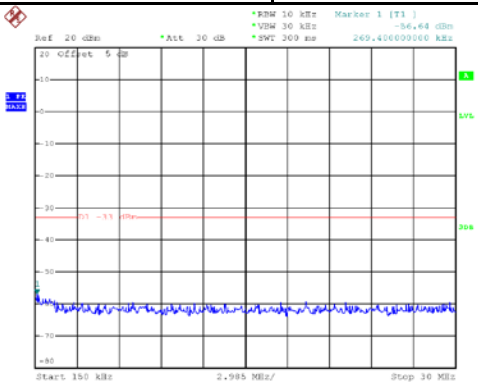
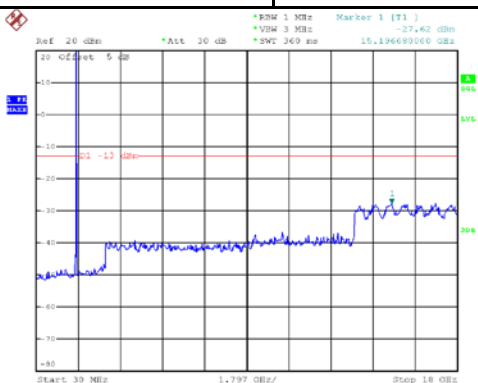


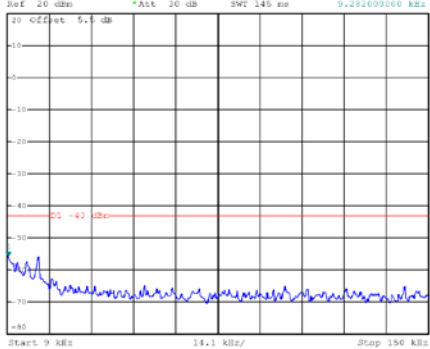
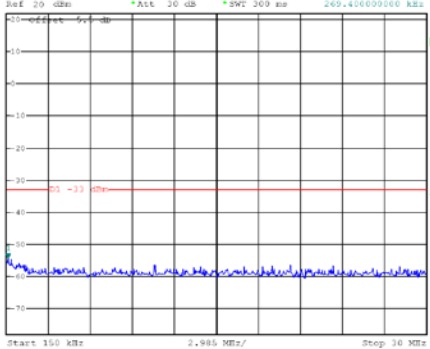
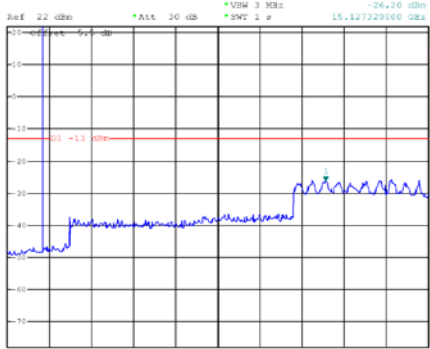
LTE Band 17_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
23780	709.0	9.0233	23780	709.0	9.0219
23790	710.0	9.0275	23790	710.0	9.0066
23800	711.0	8.9561	23800	711.0	8.9748
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
23780	709.0	9.9320	23780	709.0	10.1600
23790	710.0	10.2300	23790	710.0	10.1700
23800	711.0	10.0400	23800	711.0	10.1000

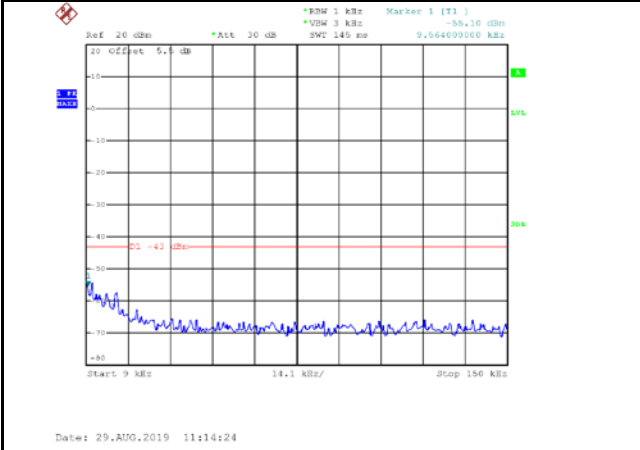
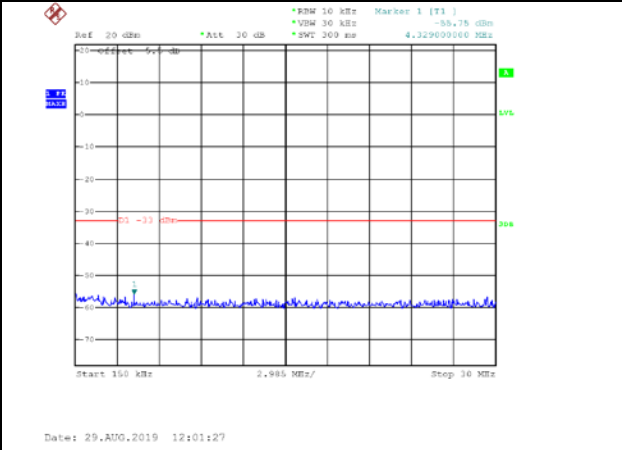
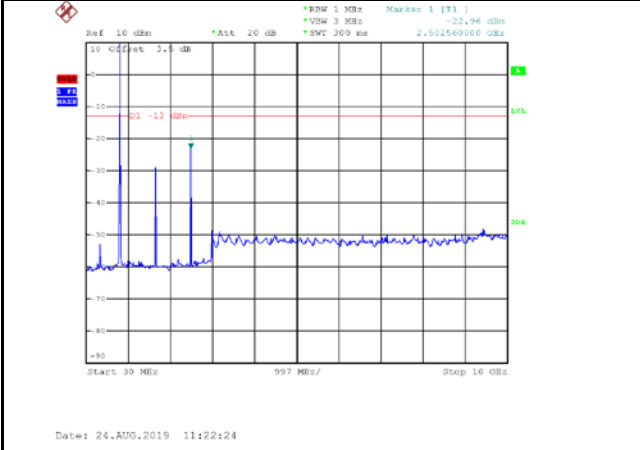
Spectrum Plot

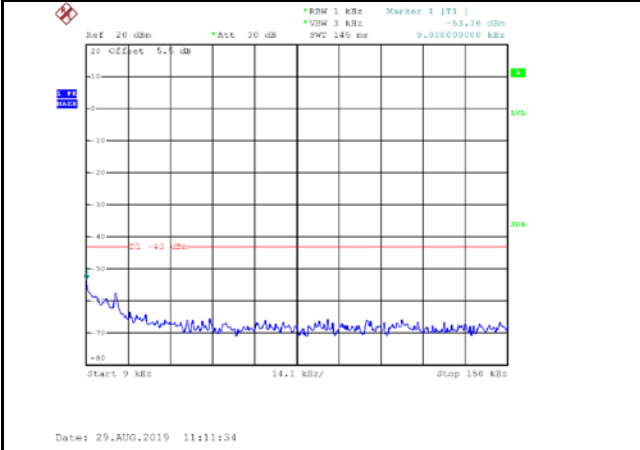
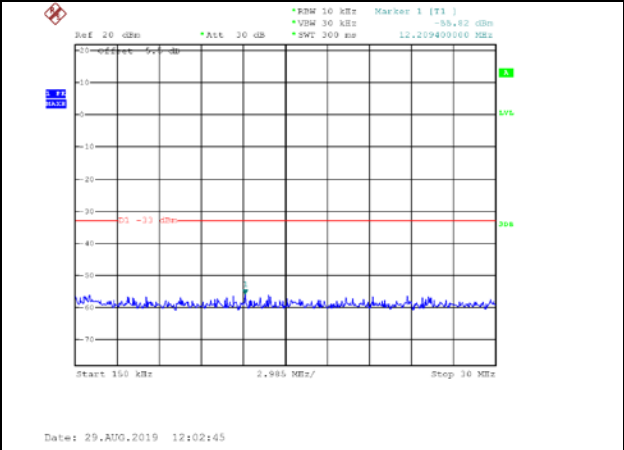
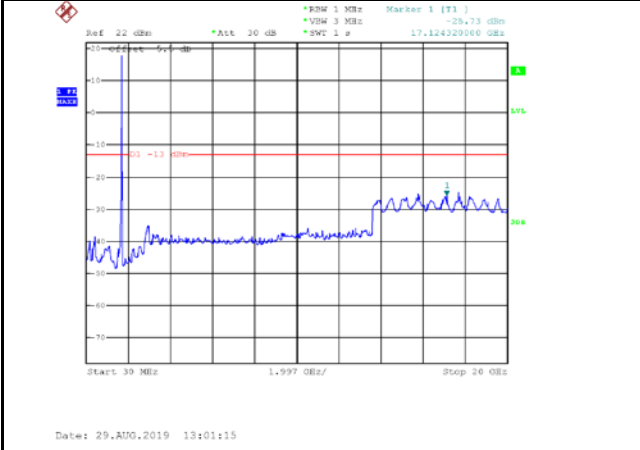


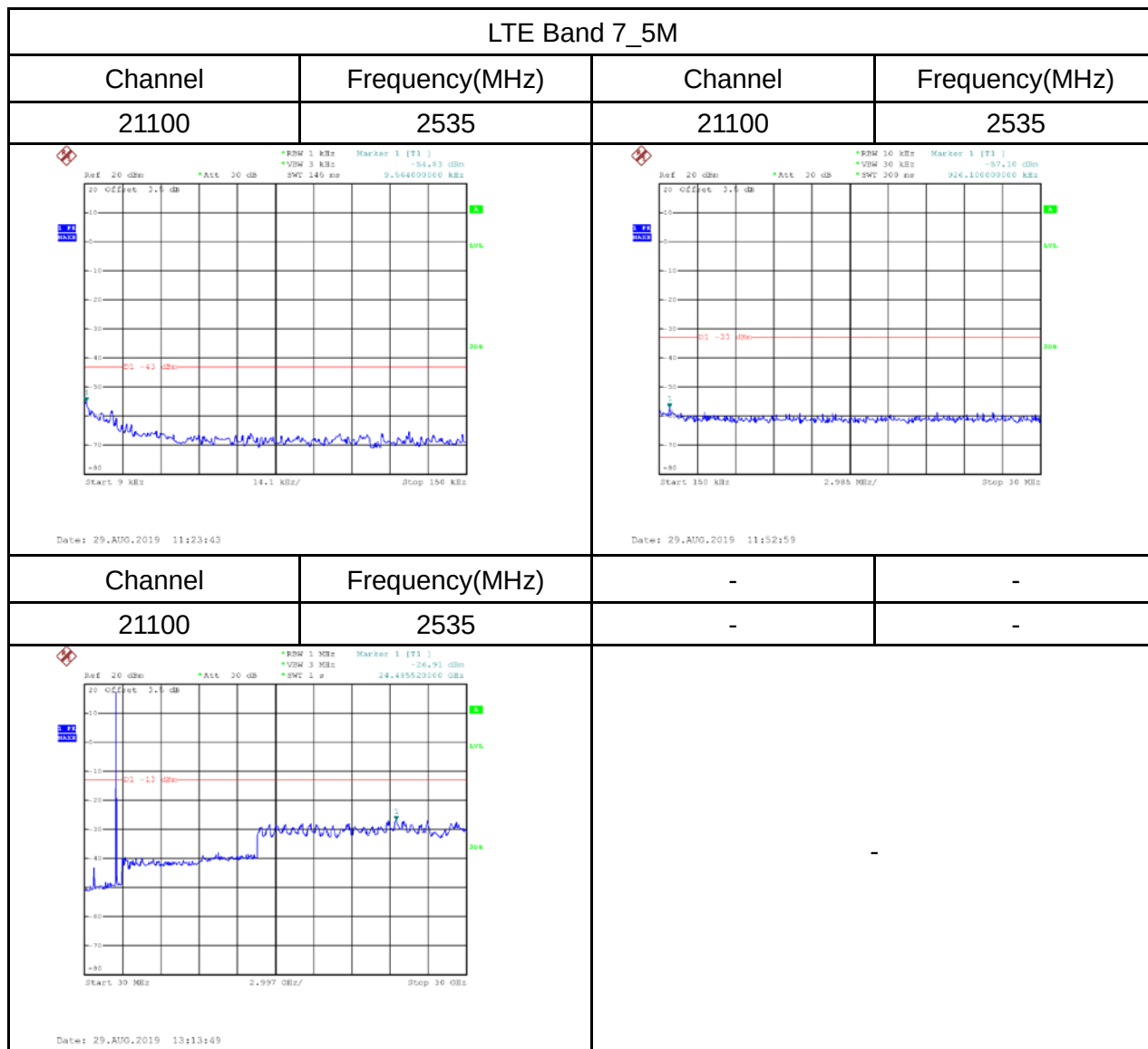
APPENDIX C - CONDUCTED EMISSIONS

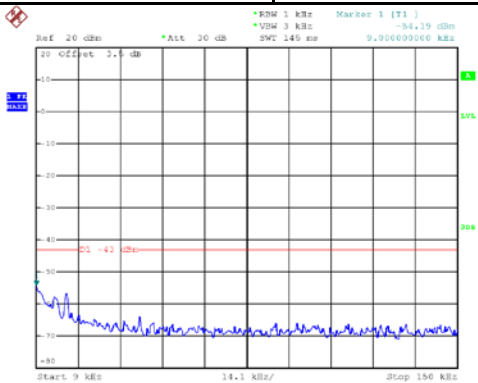
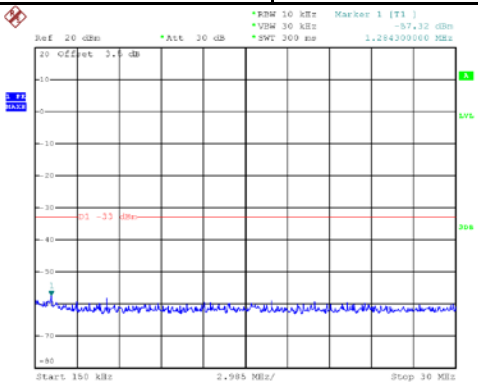
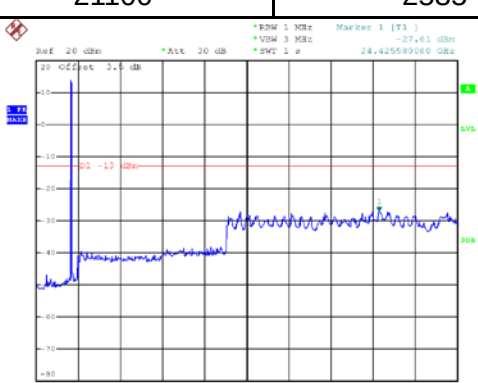
WCDMA Band IV_WCDMA			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1413	1732.6	1413	1732.6
 Ref: 20 dBm *BW 1 kHz *VM 3 kHz *SW 145 Hz Marker 1 [T1] -54.48 dBm 9.906090000 kHz Start: 9 kHz, 14.1 kHz, Stop: 150 kHz Date: 29.AUG.2019 14:37:07		 Ref: 20 dBm *BW 10 kHz *VM 30 kHz *SW 300 Hz Marker 1 [T1] -54.44 dBm 269.406090000 kHz Start: 150 kHz, 2.995 MHz, Stop: 30 MHz Date: 29.AUG.2019 14:40:31	
Channel	Frequency(MHz)	-	-
1413	1732.6	-	-
 Ref: 20 dBm *BW 1 MHz *VM 3 MHz *SW 240 Hz Marker 1 [T1] -27.42 dBm 15.196489000 GHz Start: 30 MHz, 1.797 GHz, Stop: 18 GHz Date: 25.AUG.2019 11:45:55		-	

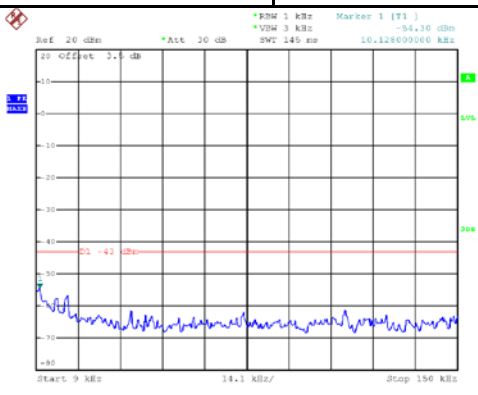
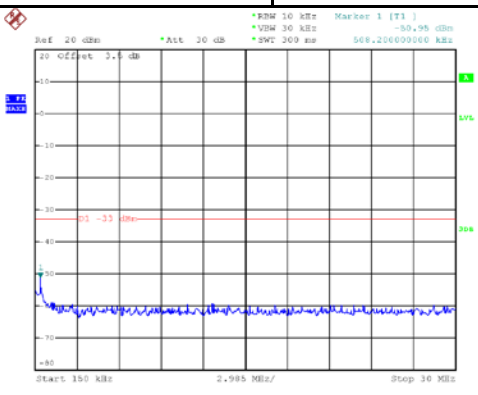
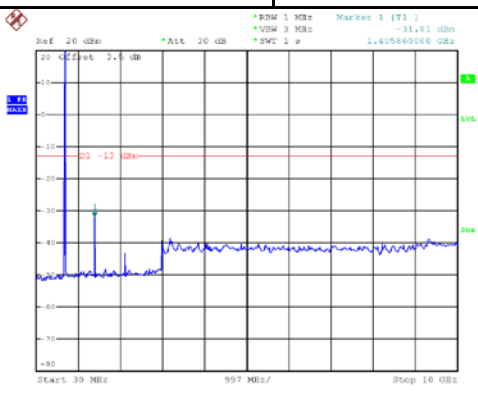
LTE Band 4_1.4M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5
 Date: 29.AUG.2019 11:16:12		 Date: 29.AUG.2019 11:59:44	
Channel	Frequency(MHz)	-	-
20175	1732.5	-	-
 Date: 29.AUG.2019 13:04:10		-	

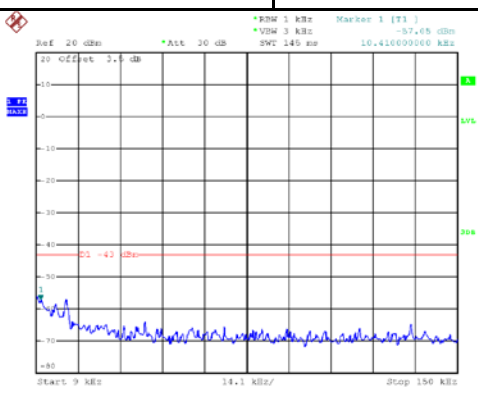
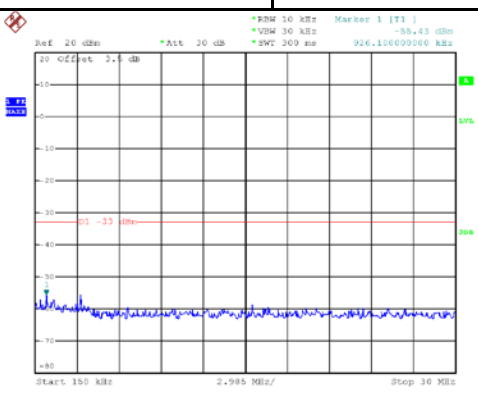
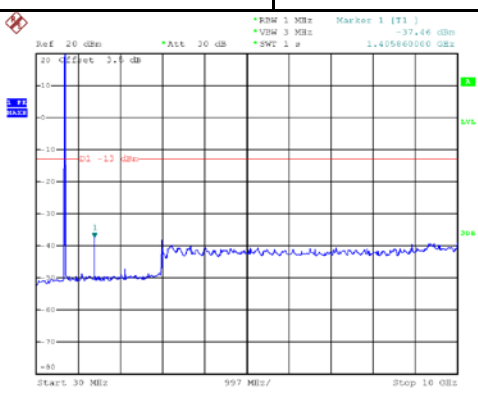
LTE Band 4_5M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5
			
Channel	Frequency(MHz)	-	-
20175	1732.5	-	-
		-	

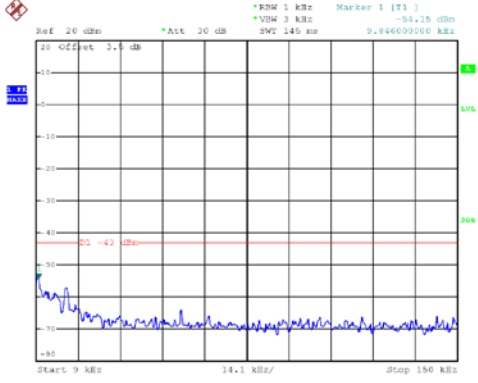
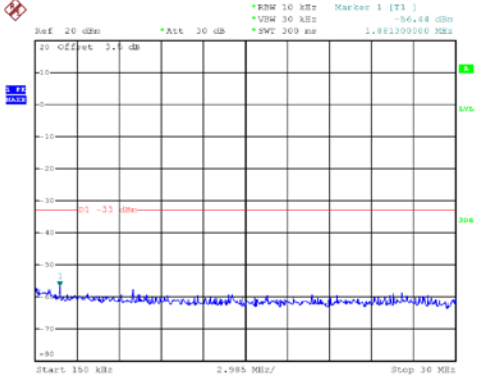
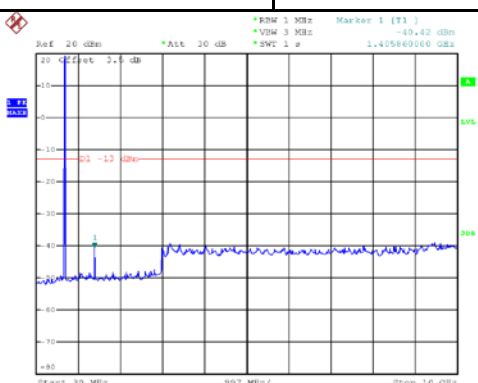
LTE Band 4_20M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
20175	1732.5	20175	1732.5
			
Channel	Frequency(MHz)	-	-
20175	1732.5	-	-
		-	

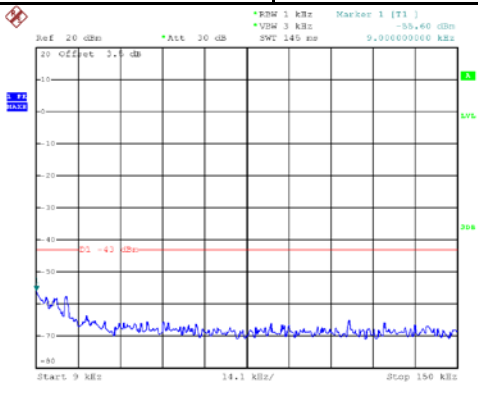
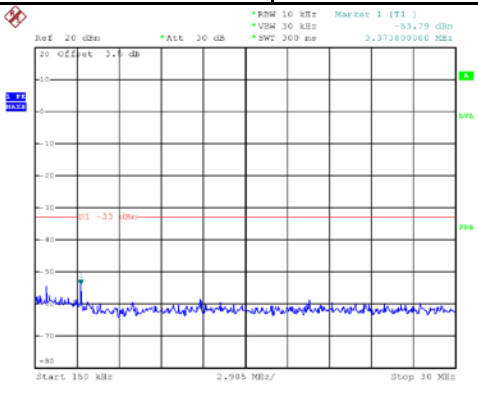
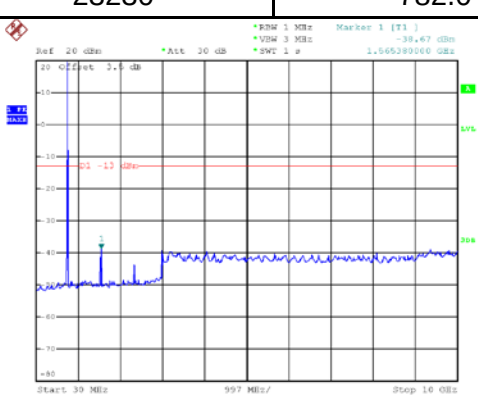


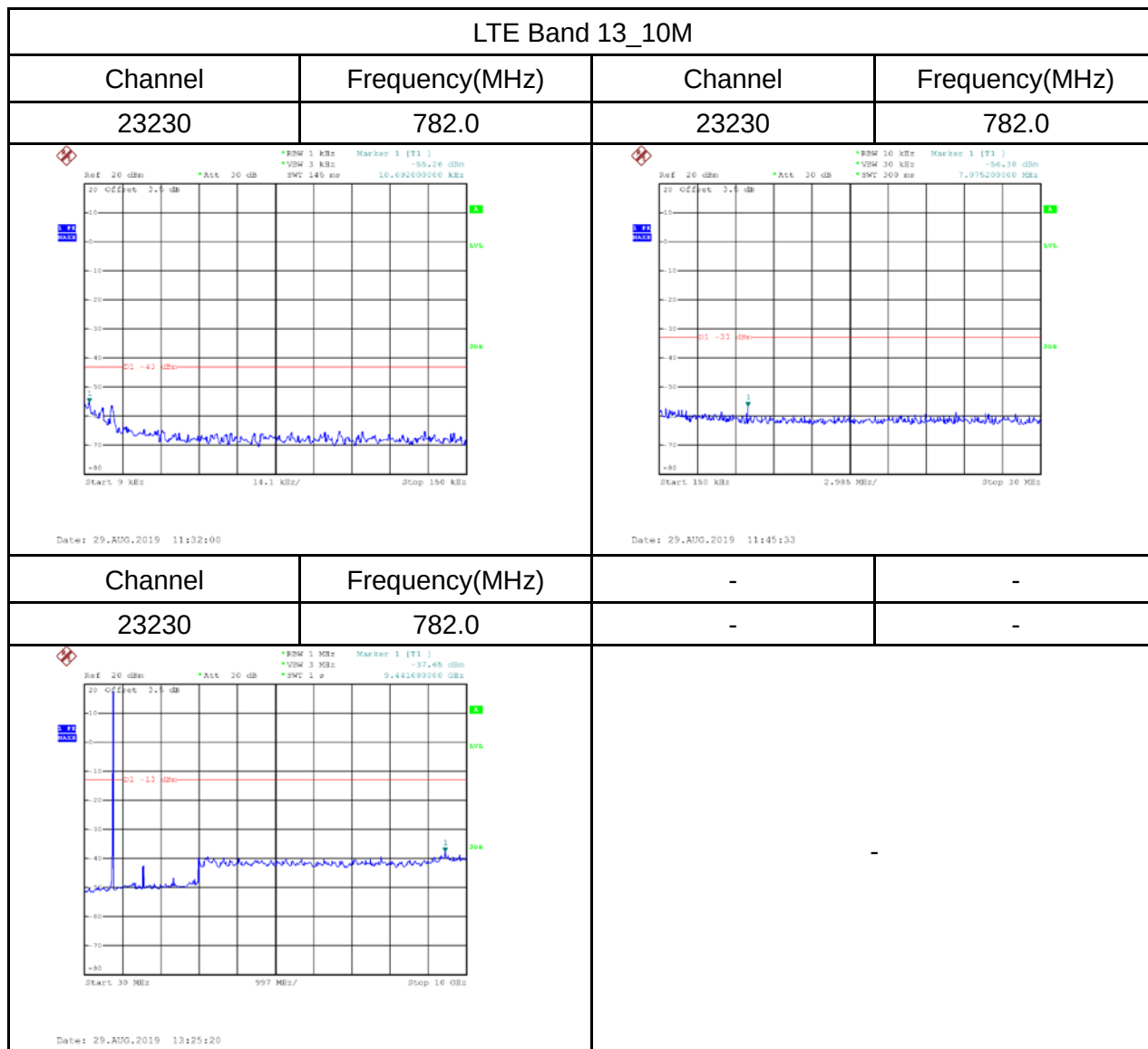
LTE Band 7_20M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
21100	2535	21100	2535
 Date: 29.AUG.2019 11:24:43		 Date: 29.AUG.2019 11:54:20	
Channel	Frequency(MHz)	-	-
21100	2535	-	-
 Date: 29.AUG.2019 13:15:10		-	

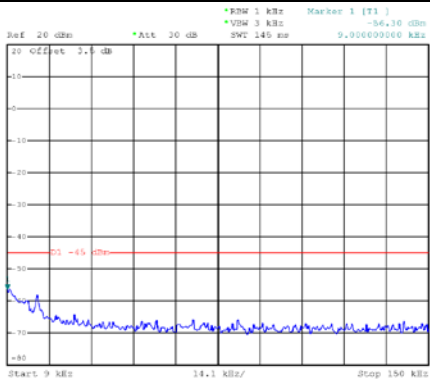
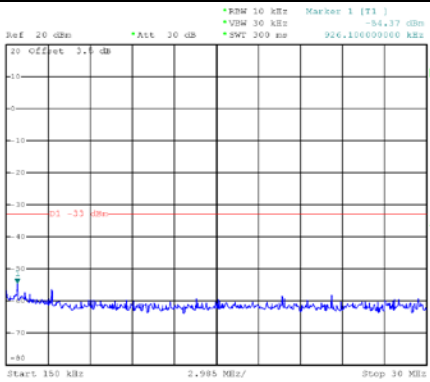
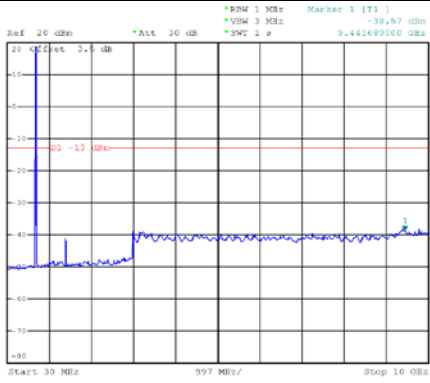
LTE Band 12_1.4M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23095	707.5	23095	707.5
 Date: 29.AUG.2019 11:29:06		 Date: 29.AUG.2019 11:49:43	
Channel	Frequency(MHz)	-	-
23095	707.5	-	-
 Date: 29.AUG.2019 13:20:32		-	

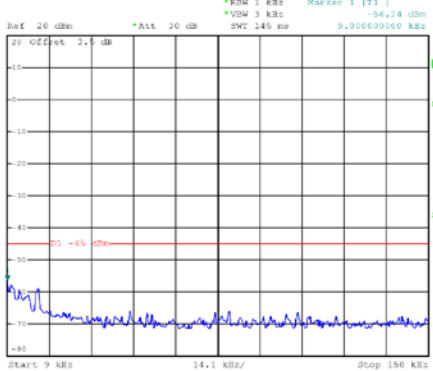
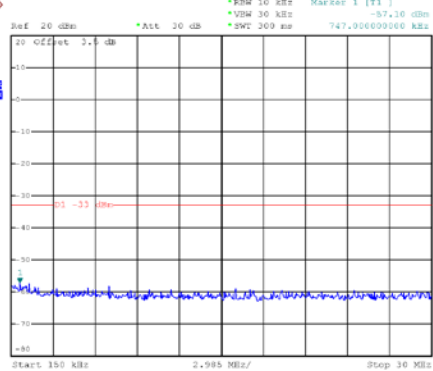
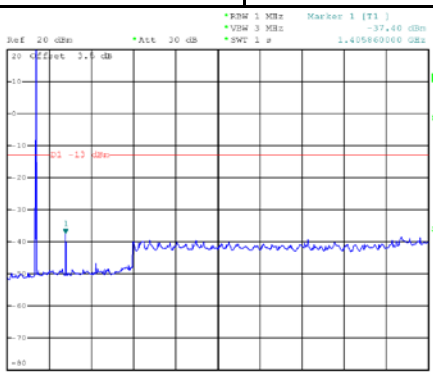
LTE Band 12_5M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23095	707.5	23095	707.5
 Date: 29.AUG.2019 11:28:10		 Date: 29.AUG.2019 11:48:44	
Channel	Frequency(MHz)	-	-
23095	707.5	-	-
 Date: 29.AUG.2019 13:19:41		-	

LTE Band 12_10M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23095	707.5	23095	707.5
 Ref: 20 dBm *Alt: 30 dB *BW: 3 kHz Marker 1 [T1] -34.29 dBm *VSW: 3 kHz *SWT: 145 us 9.946000000 kHz Start: 9 kHz 14.1 MHz/ Stop: 150 kHz Date: 29.AUG.2019 11:27:11		 Ref: 20 dBm *Alt: 30 dB *BW: 10 kHz Marker 1 [T1] -34.44 dBm *VSW: 30 kHz *SWT: 200 us 1.881200000 MHz Start: 100 kHz 2.985 MHz/ Stop: 300 MHz Date: 29.AUG.2019 11:47:26	
Channel	Frequency(MHz)	-	-
23095	707.5	-	-
 Ref: 20 dBm *Alt: 30 dB *BW: 3 MHz Marker 1 [T1] -40.42 dBm *VSW: 3 MHz *SWT: 2 us 1.405600000 GHz Start: 39 MHz 997 MHz/ Stop: 10 GHz Date: 29.AUG.2019 13:18:12			

LTE Band 13_5M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23230	782.0	23230	782.0
			
Channel	Frequency(MHz)	-	-
23230	782.0	-	-
			



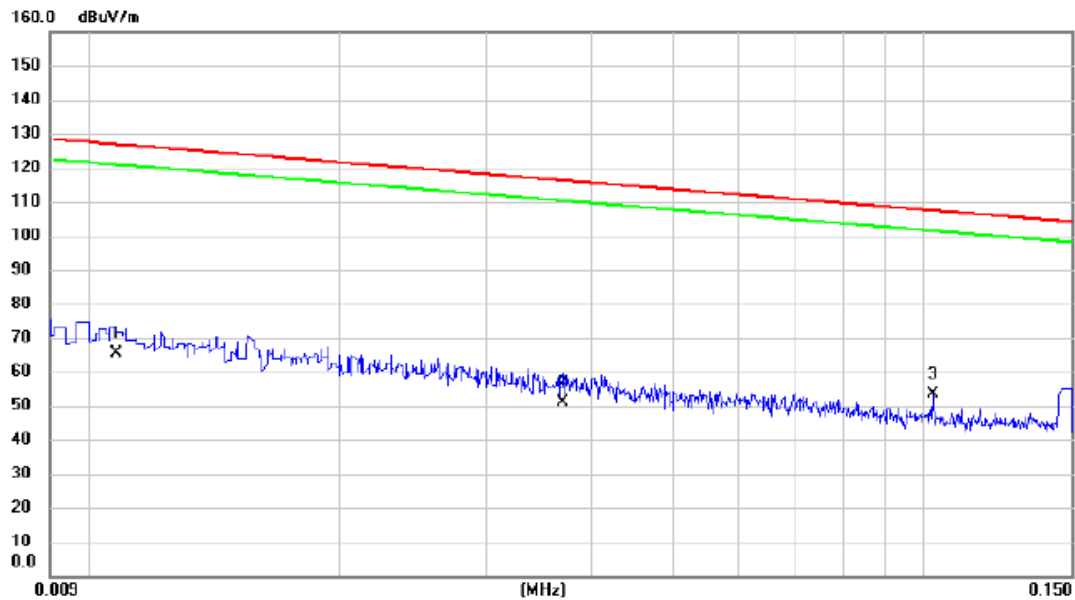
LTE Band 17_5M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23790	710.0	23790	710.0
 Date: 29.AUG.2019 11:38:16		 Date: 29.AUG.2019 11:42:55	
Channel	Frequency(MHz)	-	-
23790	710.0	-	-
 Date: 29.AUG.2019 13:28:03		-	

LTE Band 17_10M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
23790	710.0	23790	710.0
 Date: 29.AUG.2019 11:39:27		 Date: 29.AUG.2019 11:41:48	
Channel	Frequency(MHz)	-	-
23790	710.0	-	-
 Date: 29.AUG.2019 13:29:57		-	

APPENDIX D - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode: TX Mode

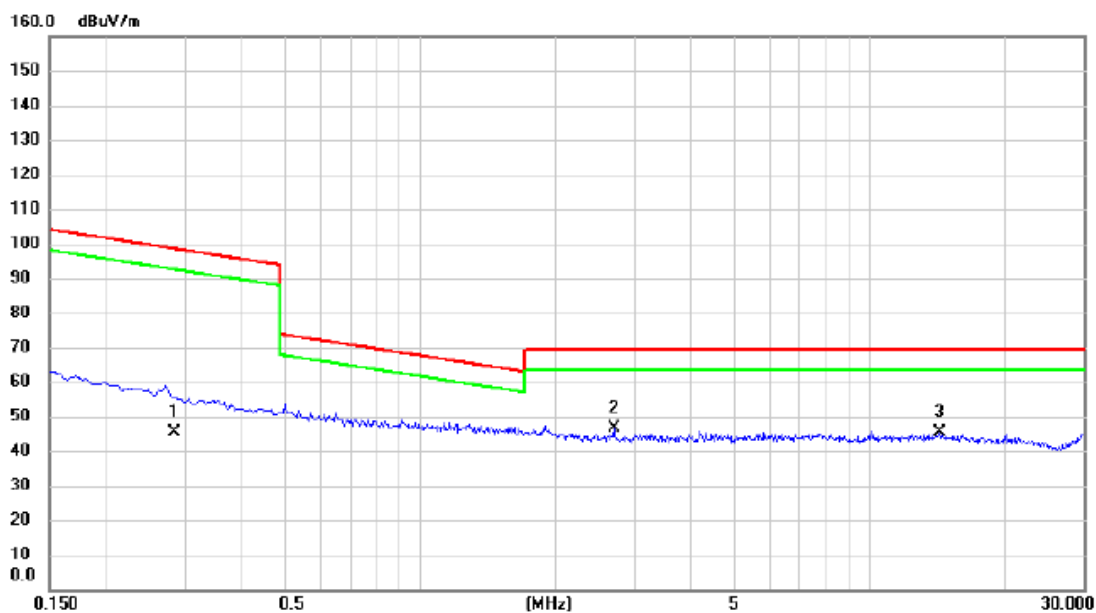
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0108	-12.70	77.91	65.21	126.94	-61.73	AVG	
2		0.0370	-16.67	67.60	50.93	116.24	-65.31	AVG	
3	*	0.1025	-4.56	57.85	53.29	107.39	-54.10	QP	

Test Mode: TX Mode

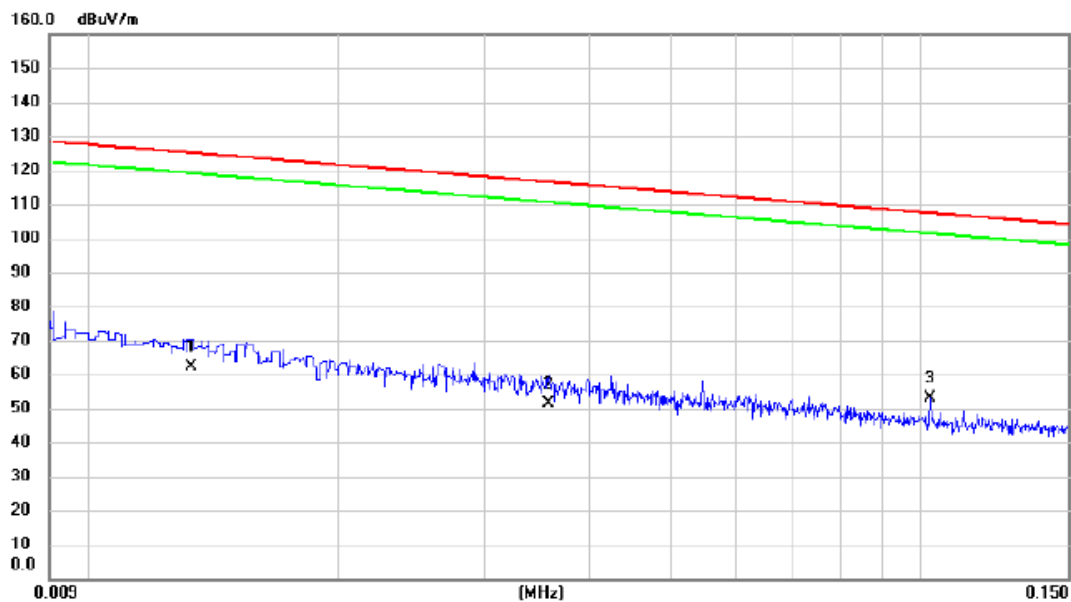
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2850	-3.90	49.21	45.31	98.51	-53.20	AVG	
2	*	2.7015	8.23	38.24	46.47	69.54	-23.07	QP	
3		14.2980	7.35	38.14	45.49	69.54	-24.05	QP	

Test Mode: TX Mode

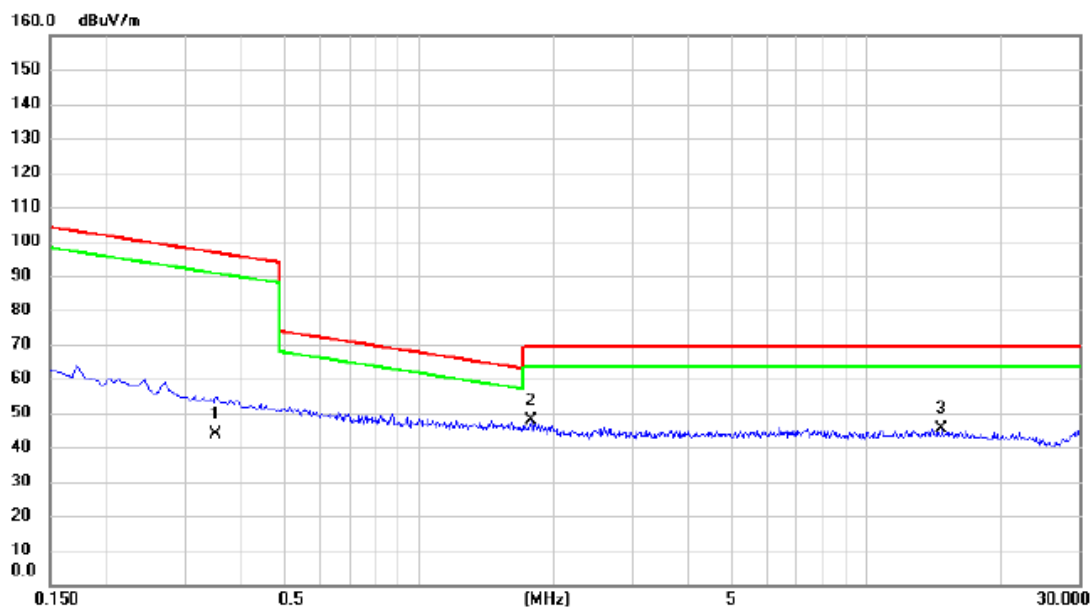
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0133	-14.30	76.39	62.09	125.13	-63.04	AVG	
2		0.0357	-16.40	67.99	51.59	116.55	-64.96	AVG	
3	*	0.1025	-4.90	57.85	52.95	107.39	-54.44	QP	

Test Mode: TX Mode

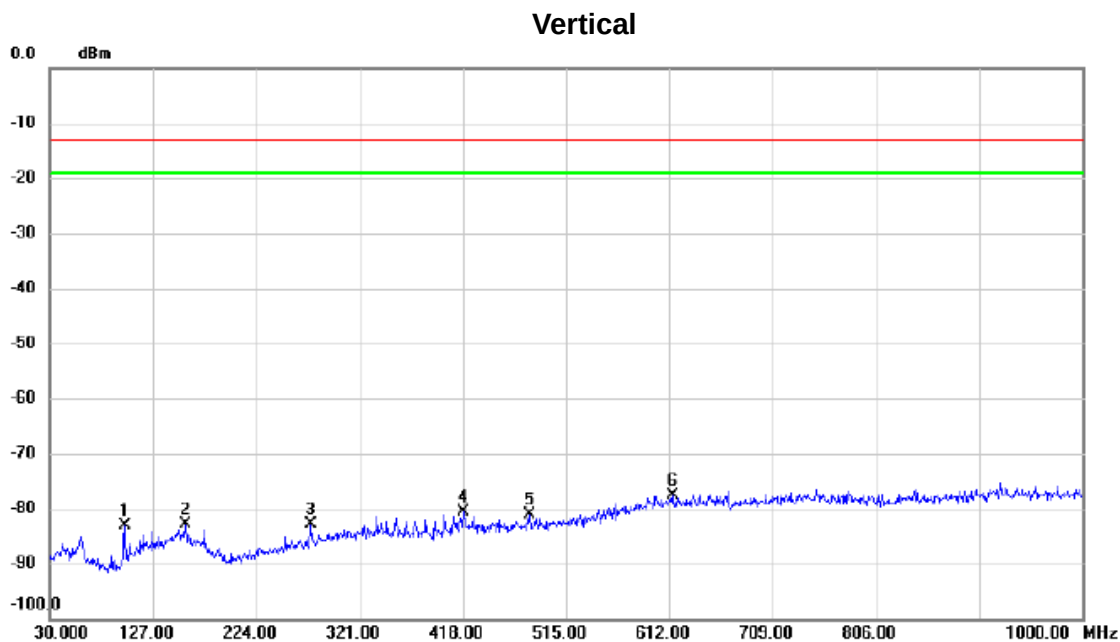
Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.3525	-3.80	47.55	43.75	96.66	-52.91	AVG	
2	*	1.7790	8.54	39.33	47.87	69.54	-21.67	QP	
3		14.7930	7.42	38.06	45.48	69.54	-24.06	QP	

APPENDIX E - RADIATED EMISSION (30MHZ TO 1GHZ)

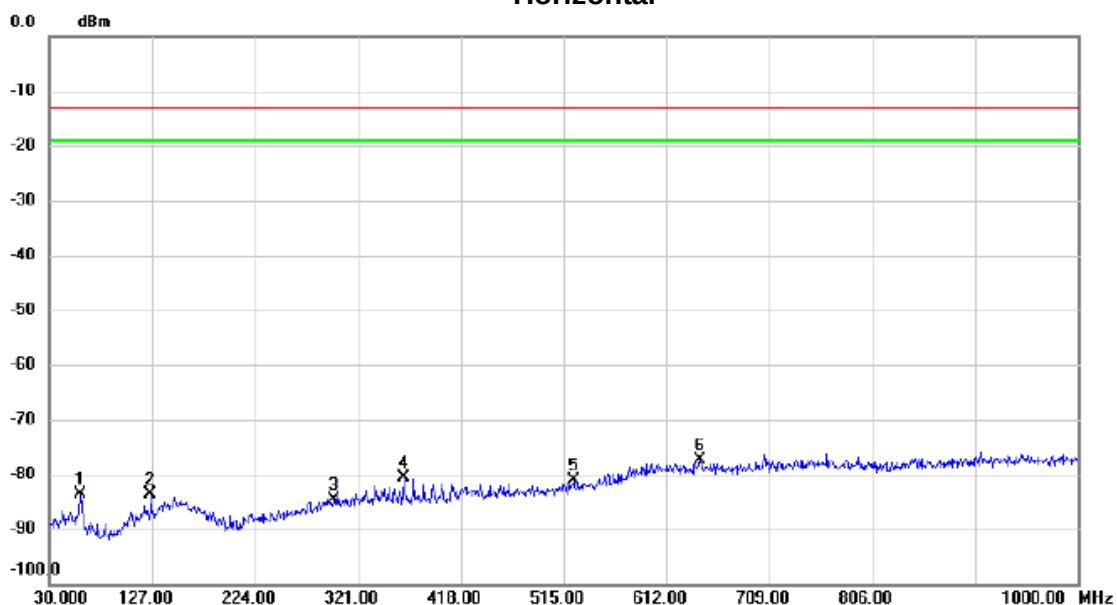
Test Mode: WCDMA Band IV _TX Mode



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		100.0340	-64.73	-18.42	-83.15	-13.00	-70.15	peak	
2		157.6520	-68.96	-13.98	-82.94	-13.00	-69.94	peak	
3		275.7010	-68.43	-14.43	-82.86	-13.00	-69.86	peak	
4		418.4850	-68.76	-11.86	-80.62	-13.00	-67.62	peak	
5		481.0500	-69.66	-11.48	-81.14	-13.00	-68.14	peak	
6	*	614.8130	-70.36	-7.18	-77.54	-13.00	-64.54	peak	

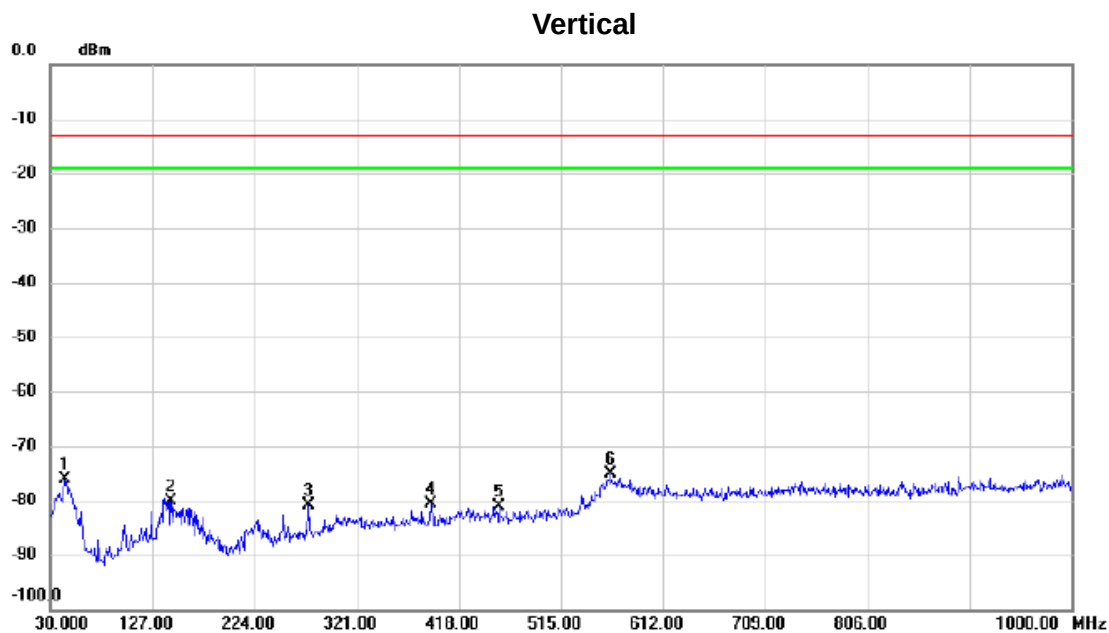
Test Mode: WCDMA Band IV _TX Mode

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.6150	-66.58	-17.07	-83.65	-13.00	-70.65	peak	
2		125.2540	-68.06	-15.64	-83.70	-13.00	-70.70	peak	
3		298.1080	-71.22	-13.47	-84.69	-13.00	-71.69	peak	
4		364.4560	-68.03	-12.61	-80.64	-13.00	-67.64	peak	
5		524.4090	-70.51	-10.58	-81.09	-13.00	-68.09	peak	
6	*	643.5250	-70.25	-7.03	-77.28	-13.00	-64.28	peak	

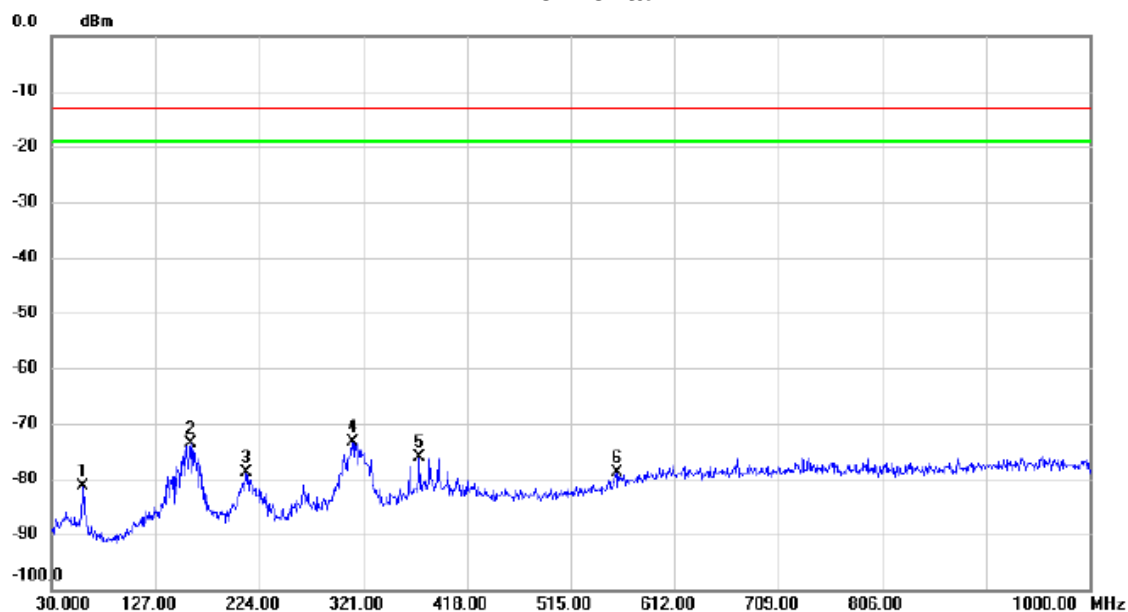
Test Mode: LTE Band 4_TX Mode



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		44.1620	-59.36	-16.74	-76.10	-13.00	-63.10	peak	
2		144.5570	-66.09	-14.03	-80.12	-13.00	-67.12	peak	
3		275.6040	-66.55	-14.44	-80.99	-13.00	-67.99	peak	
4		391.5190	-67.97	-12.75	-80.72	-13.00	-67.72	peak	
5		456.0240	-69.44	-11.63	-81.07	-13.00	-68.07	peak	
6	*	562.0450	-65.93	-9.23	-75.16	-13.00	-62.16	peak	

Test Mode: LTE Band 4_TX Mode

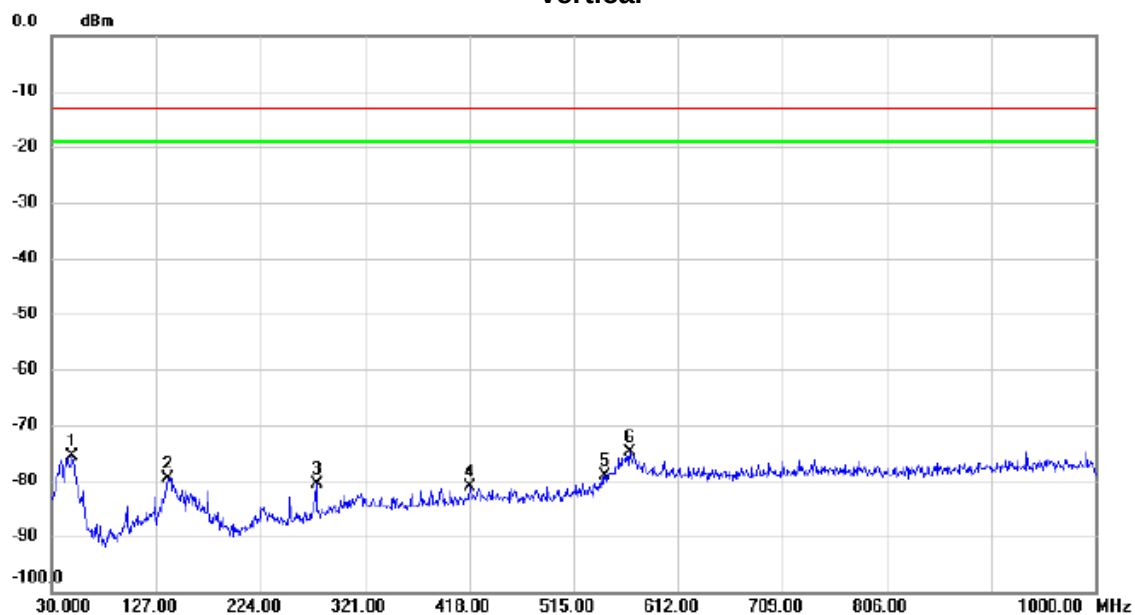
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		59.1970	-64.24	-17.09	-81.33	-13.00	-68.33	peak	
2		159.7860	-59.63	-14.10	-73.73	-13.00	-60.73	peak	
3		211.4870	-61.65	-17.23	-78.88	-13.00	-65.88	peak	
4	*	311.1060	-60.22	-13.17	-73.39	-13.00	-60.39	peak	
5		373.4770	-63.46	-12.72	-76.18	-13.00	-63.18	peak	
6		558.0680	-69.53	-9.44	-78.97	-13.00	-65.97	peak	

Test Mode: LTE Band 7_TX Mode

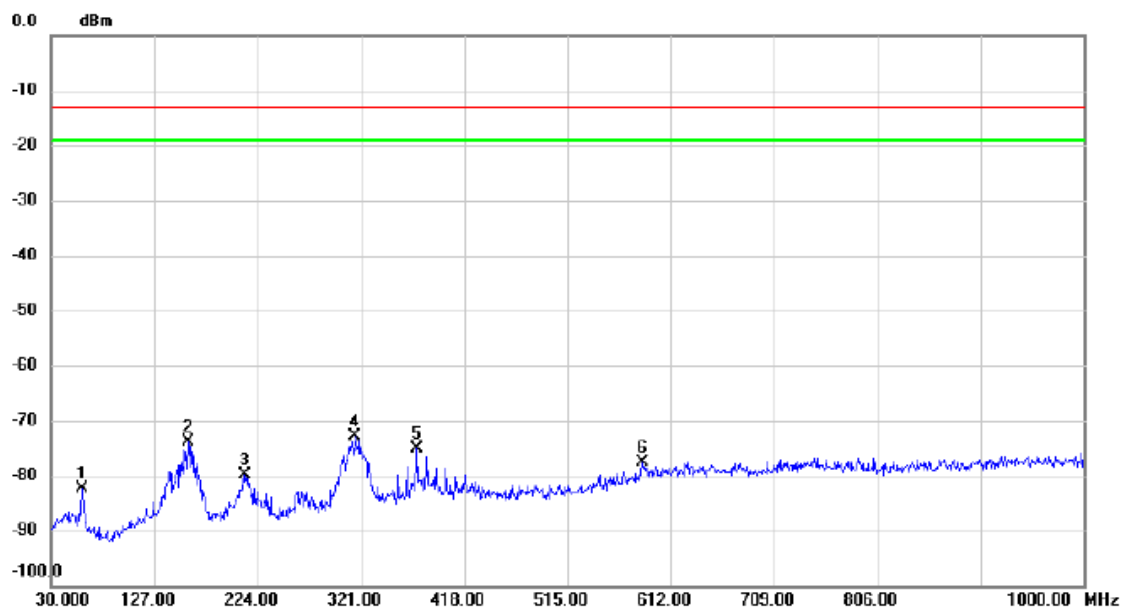
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		49.1090	-58.66	-16.91	-75.57	-13.00	-62.57	peak	
2		138.4460	-64.98	-14.59	-79.57	-13.00	-66.57	peak	
3		275.8950	-66.31	-14.42	-80.73	-13.00	-67.73	peak	
4		418.4850	-69.34	-11.86	-81.20	-13.00	-68.20	peak	
5		544.1970	-69.10	-10.03	-79.13	-13.00	-66.13	peak	
6	*	567.4770	-65.96	-8.95	-74.91	-13.00	-61.91	peak	

Test Mode: LTE Band 7_TX Mode

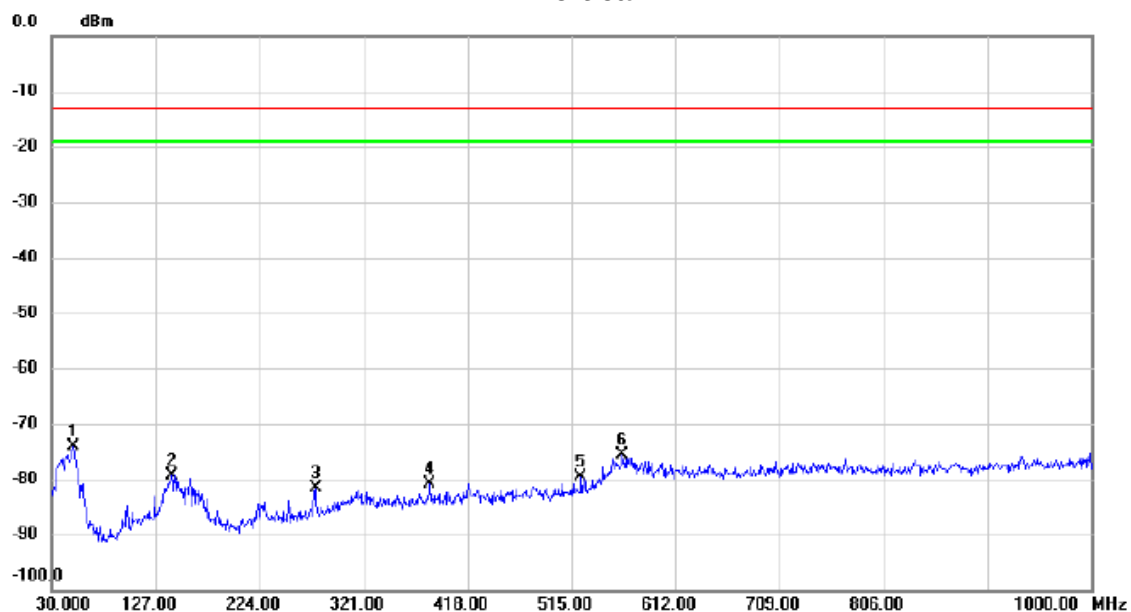
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.8090	-65.41	-17.07	-82.48	-13.00	-69.48	peak	
2		158.2340	-59.96	-14.00	-73.96	-13.00	-60.96	peak	
3		211.4870	-62.59	-17.23	-79.82	-13.00	-66.82	peak	
4	*	315.6650	-59.90	-13.09	-72.99	-13.00	-59.99	peak	
5		373.4770	-62.38	-12.72	-75.10	-13.00	-62.10	peak	
6		585.4220	-69.51	-8.02	-77.53	-13.00	-64.53	peak	

Test Mode: LTE Band 12_TX Mode

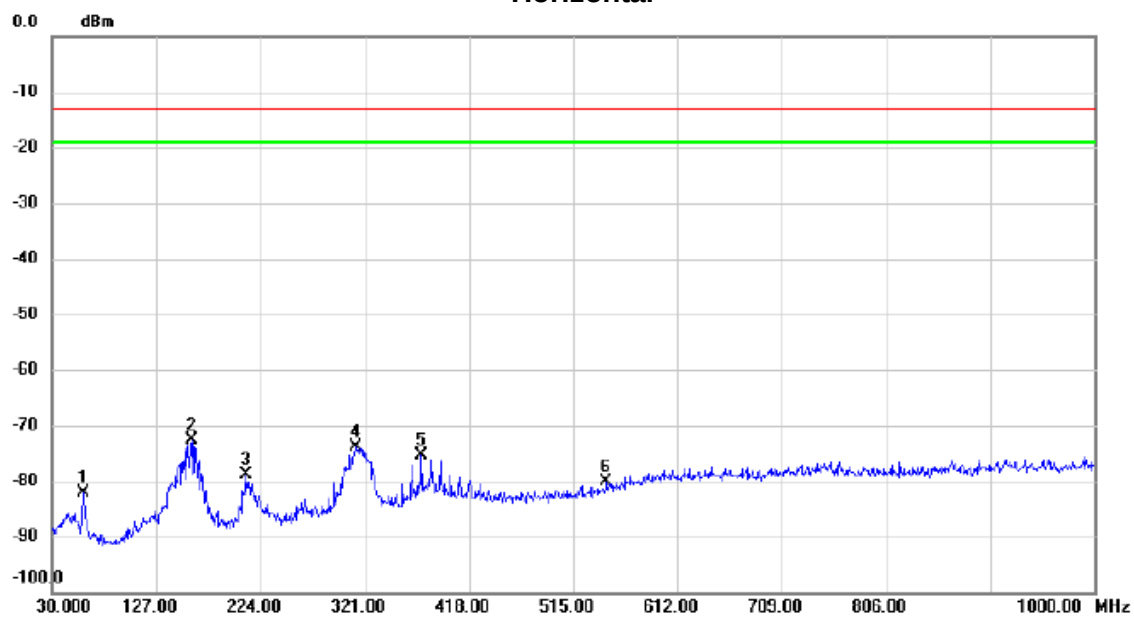
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	49.4000	-57.22	-16.90	-74.12	-13.00	-61.12	peak	
2		141.5500	-65.03	-14.29	-79.32	-13.00	-66.32	peak	
3		275.9920	-67.16	-14.41	-81.57	-13.00	-68.57	peak	
4		382.4980	-68.19	-12.78	-80.97	-13.00	-67.97	peak	
5		524.0210	-69.02	-10.59	-79.61	-13.00	-66.61	peak	
6		562.5300	-66.49	-9.20	-75.69	-13.00	-62.69	peak	

Test Mode: LTE Band 12_TX Mode

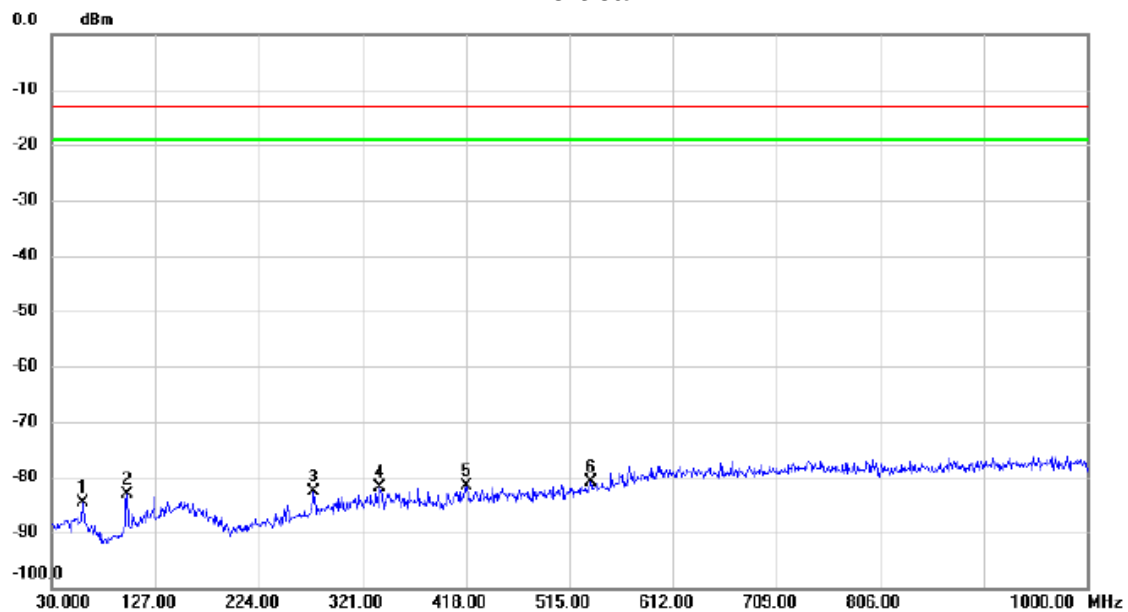
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.8090	-64.94	-17.07	-82.01	-13.00	-69.01	peak	
2	*	159.7860	-58.52	-14.10	-72.62	-13.00	-59.62	peak	
3		209.9350	-61.68	-17.27	-78.95	-13.00	-65.95	peak	
4		312.5610	-60.66	-13.14	-73.80	-13.00	-60.80	peak	
5		373.4770	-62.59	-12.72	-75.31	-13.00	-62.31	peak	
6		545.8460	-70.14	-9.98	-80.12	-13.00	-67.12	peak	

Test Mode: LTE Band 13_TX Mode

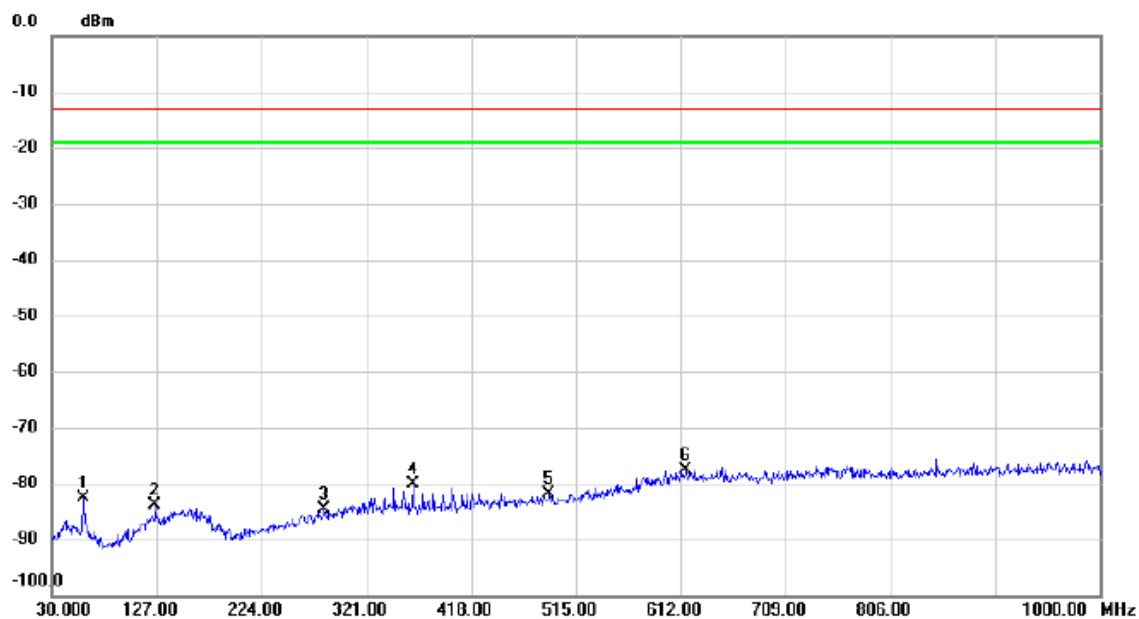
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.7120	-67.65	-17.07	-84.72	-13.00	-71.72	peak	
2		100.2280	-64.82	-18.39	-83.21	-13.00	-70.21	peak	
3		275.6040	-68.22	-14.44	-82.66	-13.00	-69.66	peak	
4		337.4900	-69.08	-12.77	-81.85	-13.00	-68.85	peak	
5		418.4850	-69.84	-11.86	-81.70	-13.00	-68.70	peak	
6	*	534.5940	-70.58	-10.29	-80.87	-13.00	-67.87	peak	

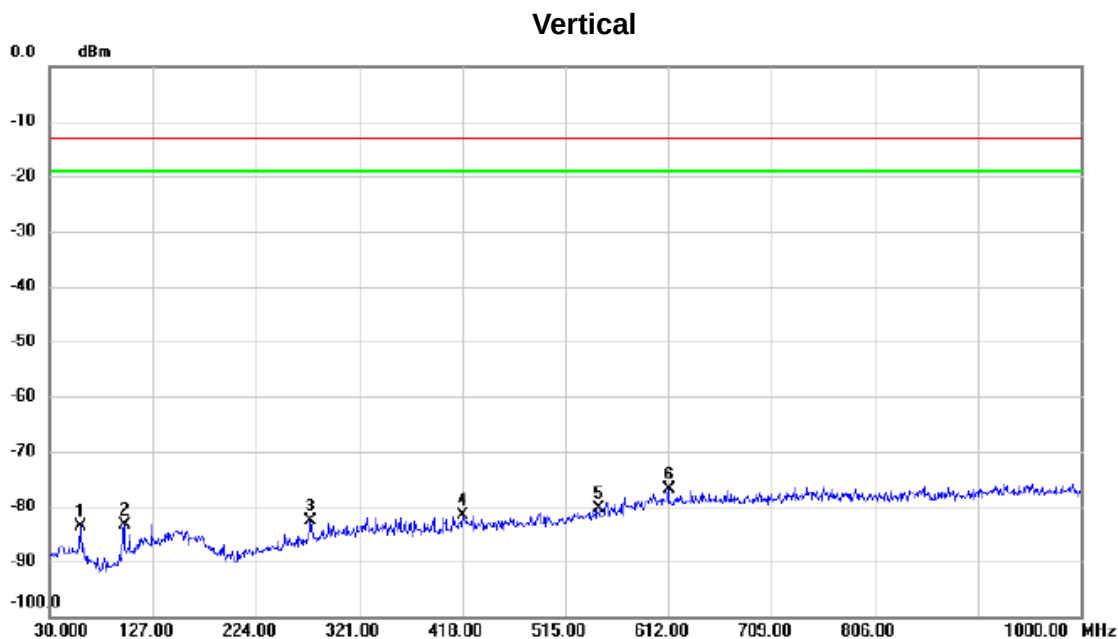
Test Mode: LTE Band 13_TX Mode

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.7120	-65.46	-17.07	-82.53	-13.00	-69.53	peak	
2		125.2540	-68.24	-15.64	-83.88	-13.00	-70.88	peak	
3		281.3270	-70.63	-14.09	-84.72	-13.00	-71.72	peak	
4		364.4560	-67.61	-12.61	-80.22	-13.00	-67.22	peak	
5		489.7800	-70.53	-11.38	-81.91	-13.00	-68.91	peak	
6	*	616.9470	-70.43	-7.18	-77.61	-13.00	-64.61	peak	

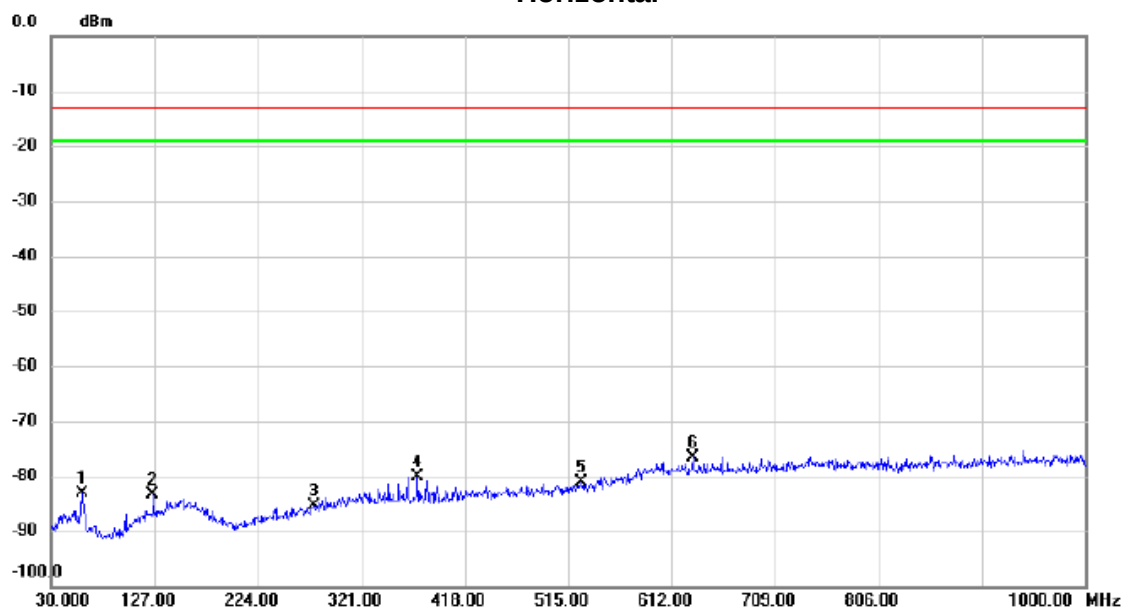
Test Mode: LTE Band 17_TX Mode



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.8090	-66.67	-17.07	-83.74	-13.00	-70.74	peak	
2		100.2280	-64.89	-18.39	-83.28	-13.00	-70.28	peak	
3		275.6040	-68.25	-14.44	-82.69	-13.00	-69.69	peak	
4		418.4850	-69.75	-11.86	-81.61	-13.00	-68.61	peak	
5		547.3010	-70.55	-9.94	-80.49	-13.00	-67.49	peak	
6	*	612.1940	-69.64	-7.20	-76.84	-13.00	-63.84	peak	

Test Mode: LTE Band 17_TX Mode

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.8090	-66.01	-17.07	-83.08	-13.00	-70.08	peak	
2		125.3510	-67.63	-15.64	-83.27	-13.00	-70.27	peak	
3		276.0890	-70.89	-14.40	-85.29	-13.00	-72.29	peak	
4		373.4770	-67.30	-12.72	-80.02	-13.00	-67.02	peak	
5		527.0280	-70.67	-10.51	-81.18	-13.00	-68.18	peak	
6	*	632.1760	-69.40	-7.10	-76.50	-13.00	-63.50	peak	