

## Appendix I

# Test Results of LTE Band 4

## Table of Contents

1. Test Conditions .....	3
2. Conducted Output Power and EIRP .....	4
3. Peak-to-Average Ratio.....	10
4. Occupied Bandwidth .....	12
5. Band Edge.....	19
6. Transmitter Spurious Emissions .....	27
7. Field Strength of Spurious Radiation .....	29
8. Frequency Stability.....	30

### 1. Test Conditions

Item	Environment	Test Channel	RB size	Modulation	BW (MHz)	Test by
Conducted Output Power	<input checked="" type="checkbox"/> N.T / N.V.	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Mid <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> Half <input checked="" type="checkbox"/> Full	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 1.4 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 15 <input checked="" type="checkbox"/> 20	Sean
EIRP/ERP	<input checked="" type="checkbox"/> N.T / N.V.	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Mid <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> Half <input checked="" type="checkbox"/> Full	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 1.4 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 15 <input checked="" type="checkbox"/> 20	Sean
Peak-to-Average Ratio	<input checked="" type="checkbox"/> N.T / N.V.	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Mid <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> Half <input checked="" type="checkbox"/> Full	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 20	Sean
Occupied Bandwidth	<input checked="" type="checkbox"/> N.T / N.V.	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Mid <input checked="" type="checkbox"/> High	<input type="checkbox"/> 1 <input type="checkbox"/> Half <input checked="" type="checkbox"/> Full	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 1.4 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 15 <input checked="" type="checkbox"/> 20	Sean
Conducted Band Edge	<input checked="" type="checkbox"/> N.T / N.V.	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Mid <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> Half <input checked="" type="checkbox"/> Full	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 1.4 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 15 <input checked="" type="checkbox"/> 20	Sean
Spurious Emission at Antenna Terminal	<input checked="" type="checkbox"/> N.T / N.V.	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Mid <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> Half <input type="checkbox"/> Full	<input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 20	Sean
Field Strength of Spurious Radiation	<input checked="" type="checkbox"/> N.T / N.V.	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Mid <input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> worst case			Sean
Frequency Stability	<input checked="" type="checkbox"/> N.T / N.V. <input checked="" type="checkbox"/> L.T / L.V. <input checked="" type="checkbox"/> L.T / H.V. <input checked="" type="checkbox"/> H.T / L.V. <input checked="" type="checkbox"/> H.T / H.V.	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Mid <input type="checkbox"/> High	<input type="checkbox"/> 1 <input type="checkbox"/> Half <input checked="" type="checkbox"/> Full	<input checked="" type="checkbox"/> QPSK <input type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 20	Sean

NOTE: All settings for RB allocation, modulation mode, channel, channel bandwidth and environment required by the standard are considered and tested; only the worst case and normal test plots are shown on the report.

## 2. Conducted Output Power and EIRP

BW (MHz)	Modulation	Channel	RB Allocation		Average Power (dBm)	GT - LC (dB)	EIRP (dBm)	Limit (dBm)	Result
			Size	Offset					
1.4	QPSK	Low	1	0	23.66	3.89	27.55	30.00	Pass
				3	23.81	3.89	27.70		Pass
				5	23.66	3.89	27.55		Pass
			3	0	23.88	3.89	27.77		Pass
				1	23.79	3.89	27.68		Pass
				3	23.82	3.89	27.71		Pass
		6	0	22.70	3.89	26.59	Pass		
		Mid	1	0	23.66	3.89	27.55		Pass
				3	23.80	3.89	27.69		Pass
				5	23.72	3.89	27.61		Pass
			3	0	23.77	3.89	27.66		Pass
				1	23.71	3.89	27.60		Pass
				3	23.78	3.89	27.67		Pass
		6	0	22.92	3.89	26.81	Pass		
		High	1	0	23.90	3.89	27.79		Pass
				3	23.95	3.89	27.84		Pass
				5	24.01	3.89	<b>27.90</b>		Pass
			3	0	23.82	3.89	27.71		Pass
	1			23.55	3.89	27.44	Pass		
	3			23.87	3.89	27.76	Pass		
	6	0	22.79	3.89	26.68	Pass			
	16QAM	Low	1	0	22.92	3.89	26.81	30.00	Pass
				3	23.04	3.89	26.93		Pass
				5	23.17	3.89	27.06		Pass
			3	0	22.93	3.89	26.82		Pass
				1	22.68	3.89	26.57		Pass
				3	22.73	3.89	26.62		Pass
		6	0	21.75	3.89	25.64	Pass		
		Mid	1	0	22.58	3.89	26.47		Pass
				3	22.62	3.89	26.51		Pass
				5	22.54	3.89	26.43		Pass
			3	0	23.05	3.89	26.94		Pass
				1	22.81	3.89	26.70		Pass
				3	22.67	3.89	26.56		Pass
		6	0	21.85	3.89	25.74	Pass		
		High	1	0	22.74	3.89	26.63		Pass
3				23.04	3.89	26.93	Pass		
5				22.92	3.89	26.81	Pass		
3			0	22.74	3.89	26.63	Pass		
	1		22.70	3.89	26.59	Pass			
	3		22.83	3.89	26.72	Pass			
6	0	21.87	3.89	25.76	Pass				

BW (MHz)	Modulation	Channel	RB Allocation		Average Power (dBm)	GT - LC (dB)	EIRP (dBm)	Limit (dBm)	Result		
			Size	Offset							
3.0	QPSK	Low	1	0	23.64	3.89	27.53	30.00	Pass		
				8	23.69	3.89	<b>27.58</b>		Pass		
				14	23.48	3.89	27.37		Pass		
			8	0	22.60	3.89	26.49		Pass		
				4	22.57	3.89	26.46		Pass		
				7	22.52	3.89	26.41		Pass		
		15	0	22.53	3.89	26.42	Pass				
		Mid	1	0	23.72	3.89	27.61		Pass		
				8	23.63	3.89	27.52		Pass		
				14	23.57	3.89	27.46		Pass		
			8	0	22.71	3.89	26.60		Pass		
				4	22.63	3.89	26.52		Pass		
				7	22.69	3.89	26.58		Pass		
		15	0	22.69	3.89	26.58	Pass				
		High	1	0	23.62	3.89	27.51		Pass		
				8	23.65	3.89	27.54		Pass		
				14	23.63	3.89	27.52		Pass		
			8	0	22.63	3.89	26.52		Pass		
				4	22.50	3.89	26.39		Pass		
				7	22.63	3.89	26.52		Pass		
		15	0	22.72	3.89	26.61	Pass				
		16QAM	Low	1	0	23.15	3.89		27.04	30.00	Pass
					8	23.16	3.89		27.05		Pass
					14	23.12	3.89		27.01		Pass
	8			0	21.82	3.89	25.71	Pass			
				4	21.76	3.89	25.65	Pass			
				7	21.82	3.89	25.71	Pass			
	15		0	21.74	3.89	25.63	Pass				
	Mid		1	0	22.82	3.89	26.71	Pass			
				8	22.18	3.89	26.07	Pass			
				14	22.15	3.89	26.04	Pass			
			8	0	21.53	3.89	25.42	Pass			
				4	21.42	3.89	25.31	Pass			
				7	21.53	3.89	25.42	Pass			
	15		0	21.79	3.89	25.68	Pass				
	High		1	0	22.75	3.89	26.64	Pass			
				8	22.82	3.89	26.71	Pass			
				14	22.74	3.89	26.63	Pass			
			8	0	21.54	3.89	25.43	Pass			
				4	21.63	3.89	25.52	Pass			
				7	21.74	3.89	25.63	Pass			
	15		0	21.73	3.89	25.62	Pass				

BW (MHz)	Modulation	Channel	RB Allocation		Average Power (dBm)	GT - LC (dB)	EIRP (dBm)	Limit (dBm)	Result			
			Size	Offset								
5.0	QPSK	Low	1	0	23.65	3.89	27.54	30.00	Pass			
				12	23.64	3.89	27.53		Pass			
				24	23.67	3.89	27.56		Pass			
			12	0	22.66	3.89	26.55		Pass			
				7	22.62	3.89	26.51		Pass			
				13	22.59	3.89	26.48		Pass			
			25	0	22.59	3.89	26.48		Pass			
			Mid	1	0	23.62	3.89		27.51	Pass		
					12	23.63	3.89		27.52	Pass		
		24			23.45	3.89	27.34		Pass			
		12		0	22.68	3.89	26.57		Pass			
				7	22.63	3.89	26.52		Pass			
				13	22.61	3.89	26.50		Pass			
		25		0	22.54	3.89	26.43		Pass			
		High		1	0	23.65	3.89		27.54	Pass		
					12	23.71	3.89		27.60	Pass		
			24		23.74	3.89	<b>27.63</b>		Pass			
			12	0	22.84	3.89	26.73		Pass			
				7	22.85	3.89	26.74		Pass			
				13	22.74	3.89	26.63		Pass			
			25	0	22.76	3.89	26.65		Pass			
			16QAM	Low	1	0	23.65		3.89	27.54	30.00	Pass
						12	23.64		3.89	27.53		Pass
		24				23.67	3.89		27.56	Pass		
	12	0			22.66	3.89	26.55	Pass				
		7			22.62	3.89	26.51	Pass				
		13			22.59	3.89	26.48	Pass				
	25	0			22.59	3.89	26.48	Pass				
	Mid	1			0	23.62	3.89	27.51	Pass			
					12	23.63	3.89	27.52	Pass			
					24	23.45	3.89	27.34	Pass			
		12			0	22.68	3.89	26.57	Pass			
					7	22.60	3.89	26.49	Pass			
				13	22.61	3.89	26.50	Pass				
		25		0	22.54	3.89	26.43	Pass				
		High		1	0	23.65	3.89	27.54	Pass			
					12	23.71	3.89	27.60	Pass			
	24				23.74	3.89	27.63	Pass				
	12			0	22.84	3.89	26.73	Pass				
				7	22.78	3.89	26.67	Pass				
				13	22.74	3.89	26.63	Pass				
	25			0	22.76	3.89	26.65	Pass				

BW (MHz)	Modulation	Channel	RB Allocation		Average Power (dBm)	GT - LC (dB)	EIRP (dBm)	Limit (dBm)	Result		
			Size	Offset							
10	QPSK	Low	1	0	23.72	3.89	27.61	30.00	Pass		
				25	23.90	3.89	27.79		Pass		
				49	23.73	3.89	27.62		Pass		
			25	0	22.71	3.89	26.60		Pass		
				12	22.72	3.89	26.61		Pass		
				25	22.63	3.89	26.52		Pass		
		50	0	22.66	3.89	26.55	Pass				
		Mid	1	0	23.83	3.89	27.72		Pass		
				25	23.84	3.89	27.73		Pass		
				49	23.69	3.89	27.58		Pass		
			25	0	22.90	3.89	26.79		Pass		
				12	22.85	3.89	26.74		Pass		
				25	22.76	3.89	26.65		Pass		
		50	0	22.75	3.89	26.64	Pass				
		High	1	0	23.73	3.89	27.62		Pass		
				25	24.02	3.89	<b>27.91</b>		Pass		
				49	23.86	3.89	27.75		Pass		
			25	0	22.86	3.89	26.75		Pass		
				12	22.71	3.89	26.60		Pass		
				25	22.76	3.89	26.65		Pass		
		50	0	22.77	3.89	26.66	Pass				
		16QAM	Low	1	0	22.72	3.89		26.61	30.00	Pass
					25	23.45	3.89		27.34		Pass
					49	23.32	3.89		27.21		Pass
	25			0	22.01	3.89	25.90	Pass			
				12	21.90	3.89	25.79	Pass			
				25	21.80	3.89	25.69	Pass			
	50		0	21.77	3.89	25.66	Pass				
	Mid		1	0	22.96	3.89	26.85	Pass			
				25	23.68	3.89	27.57	Pass			
				49	23.38	3.89	27.27	Pass			
			25	0	21.81	3.89	25.70	Pass			
				12	21.66	3.89	25.55	Pass			
				25	21.71	3.89	25.60	Pass			
	50		0	21.63	3.89	25.52	Pass				
	High		1	0	22.25	3.89	26.14	Pass			
				25	22.69	3.89	26.58	Pass			
				49	22.84	3.89	26.73	Pass			
			25	0	21.98	3.89	25.87	Pass			
				12	21.92	3.89	25.81	Pass			
				25	21.87	3.89	25.76	Pass			
	50		0	21.87	3.89	25.76	Pass				

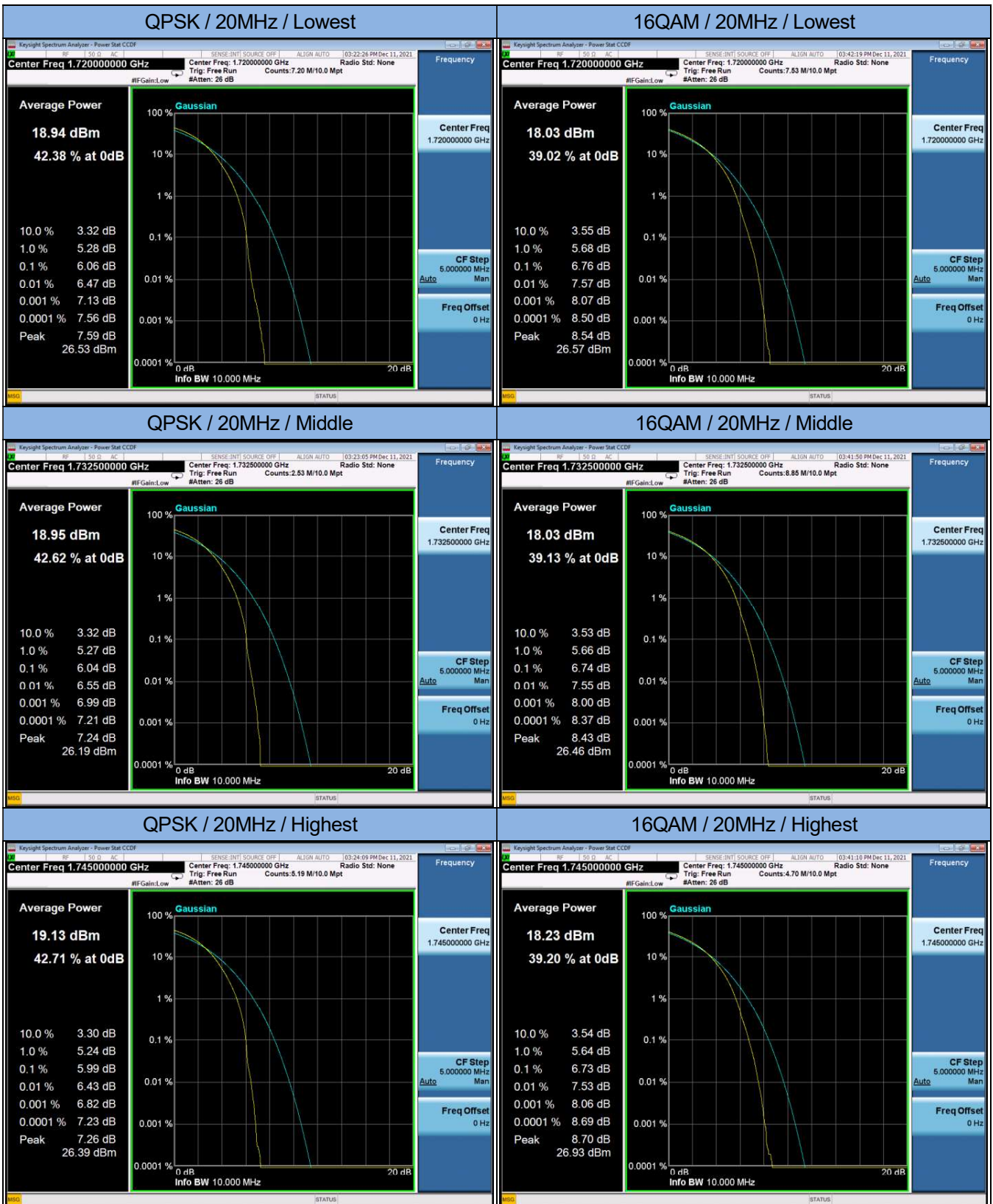
BW (MHz)	Modulation	Channel	RB Allocation		Average Power (dBm)	GT - LC (dB)	EIRP (dBm)	Limit (dBm)	Result		
			Size	Offset							
15	QPSK	Low	1	0	23.15	3.89	27.04	30.00	Pass		
				37	23.73	3.89	27.62		Pass		
				74	23.63	3.89	27.52		Pass		
			36	0	22.91	3.89	26.80		Pass		
				20	22.82	3.89	26.71		Pass		
				39	22.69	3.89	26.58		Pass		
			75	0	22.54	3.89	26.43		Pass		
			Mid	1	0	23.55	3.89		27.44	Pass	
					37	23.58	3.89		27.47	Pass	
		74			23.46	3.89	27.35		Pass		
		36		0	22.80	3.89	26.69		Pass		
				20	22.63	3.89	26.52		Pass		
				39	22.72	3.89	26.61		Pass		
		75		0	22.67	3.89	26.56		Pass		
		High		1	0	23.63	3.89		27.52	Pass	
					37	23.54	3.89		27.43	Pass	
			74		23.63	3.89	27.52		Pass		
			36	0	22.93	3.89	26.82		Pass		
				20	22.79	3.89	26.68		Pass		
				39	22.82	3.89	26.71		Pass		
			75	0	22.80	3.89	26.69		Pass		
			16QAM	Low	1	0	23.11		3.89	27.00	Pass
						37	23.14		3.89	27.03	Pass
		74				23.02	3.89		26.91	Pass	
	36	0			21.94	3.89	25.83	Pass			
		20			21.84	3.89	25.73	Pass			
		39			21.71	3.89	25.60	Pass			
	75	0			21.73	3.89	25.62	Pass			
	Mid	1			0	22.85	3.89	26.74	Pass		
					37	23.35	3.89	27.24	Pass		
					74	23.72	3.89	<b>27.61</b>	Pass		
		36			0	22.25	3.89	26.14	Pass		
					20	22.20	3.89	26.09	Pass		
				39	21.94	3.89	25.83	Pass			
		75		0	21.94	3.89	25.83	Pass			
		High		1	0	22.78	3.89	26.67	Pass		
					37	23.17	3.89	27.06	Pass		
	74				23.52	3.89	27.41	Pass			
	36			0	22.04	3.89	25.93	Pass			
				20	21.99	3.89	25.88	Pass			
				39	21.61	3.89	25.50	Pass			
	75			0	21.60	3.89	25.49	Pass			



BW (MHz)	Modulation	Channel	RB Allocation		Average Power (dBm)	GT - LC (dB)	EIRP (dBm)	Limit (dBm)	Result		
			Size	Offset							
20	QPSK	Low	1	0	23.71	3.89	27.60	30.00	Pass		
				49	23.78	3.89	27.67		Pass		
				99	23.83	3.89	27.72		Pass		
			50	0	22.66	3.89	26.55		Pass		
				24	22.61	3.89	26.50		Pass		
				50	22.68	3.89	26.57		Pass		
		100	0	22.75	3.89	26.64	Pass				
		Mid	1	0	23.53	3.89	27.42		Pass		
				49	24.20	3.89	<b>28.09</b>		Pass		
				99	24.10	3.89	27.99		Pass		
			50	0	22.86	3.89	26.75		Pass		
				24	22.79	3.89	26.68		Pass		
				50	22.73	3.89	26.62		Pass		
		100	0	22.71	3.89	26.60	Pass				
		High	1	0	23.45	3.89	27.34		Pass		
				49	23.84	3.89	27.73		Pass		
				99	23.80	3.89	27.69		Pass		
			50	0	23.26	3.89	27.15		Pass		
				24	22.94	3.89	26.83		Pass		
				50	22.87	3.89	26.76		Pass		
		100	0	22.78	3.89	26.67	Pass				
		16QAM	Low	1	0	23.01	3.89		26.90	30.00	Pass
					49	23.25	3.89		27.14		Pass
					99	23.34	3.89		27.23		Pass
	50			0	22.35	3.89	26.24	Pass			
				24	21.86	3.89	25.75	Pass			
				50	21.84	3.89	25.73	Pass			
	100		0	21.96	3.89	25.85	Pass				
	Mid		1	0	22.55	3.89	26.44	Pass			
				49	22.74	3.89	26.63	Pass			
				99	22.53	3.89	26.42	Pass			
			50	0	22.04	3.89	25.93	Pass			
				24	21.93	3.89	25.82	Pass			
				50	21.84	3.89	25.73	Pass			
	100		0	21.85	3.89	25.74	Pass				
	High		1	0	22.22	3.89	26.11	Pass			
				49	22.79	3.89	26.68	Pass			
				99	23.22	3.89	27.11	Pass			
			50	0	22.28	3.89	26.17	Pass			
				24	22.17	3.89	26.06	Pass			
				50	21.78	3.89	25.67	Pass			
	100		0	21.68	3.89	25.57	Pass				

### 3. Peak-to-Average Ratio

BW (MHz)	Modulation	Channel	RB Allocation		Peak-to-Average Ratio (dB)	Limit (dBm)	Result
			Size	Offset			
20	QPSK	Low	Full	0	6.06	13.0	Pass
		Mid	Full	0	6.04		Pass
		High	Full	0	5.99		Pass
	16QAM	Low	Full	0	6.76	13.0	Pass
		Mid	Full	0	6.74		Pass
		High	Full	0	6.73		Pass



#### 4. Occupied Bandwidth

BW (MHz)	Modulation	Channel	RB Allocation		26dB BW (MHz)	99% OBW (MHz)	Limit (dBm)	Result
			Size	Offset				
1.4	QPSK	Low	Full	0	1.315	1.1025	---	Pass
		Mid	Full	0	1.293	1.1094		Pass
		High	Full	0	1.309	1.0945		Pass
	16QAM	Low	Full	0	1.297	1.0990	---	Pass
		Mid	Full	0	1.283	1.0989		Pass
		High	Full	0	1.305	1.1019		Pass
3.0	QPSK	Low	Full	0	2.993	2.7056	---	Pass
		Mid	Full	0	2.996	2.7141		Pass
		High	Full	0	3.002	2.7079		Pass
	16QAM	Low	Full	0	2.994	2.7021	---	Pass
		Mid	Full	0	3.013	2.7123		Pass
		High	Full	0	2.998	2.7004		Pass
5.0	QPSK	Low	Full	0	4.951	4.4799	---	Pass
		Mid	Full	0	4.882	4.4707		Pass
		High	Full	0	4.938	4.4813		Pass
	16QAM	Low	Full	0	4.910	4.4708	---	Pass
		Mid	Full	0	4.908	4.4836		Pass
		High	Full	0	4.962	4.4885		Pass
10	QPSK	Low	Full	0	9.857	8.9731	---	Pass
		Mid	Full	0	9.821	8.9714		Pass
		High	Full	0	9.848	8.9473		Pass
	16QAM	Low	Full	0	9.900	8.9652	---	Pass
		Mid	Full	0	9.986	8.9761		Pass
		High	Full	0	9.824	8.9627		Pass
15	QPSK	Low	Full	0	14.680	13.443	---	Pass
		Mid	Full	0	14.680	13.437		Pass
		High	Full	0	14.670	13.443		Pass
	16QAM	Low	Full	0	14.690	13.440	---	Pass
		Mid	Full	0	14.670	13.427		Pass
		High	Full	0	14.670	13.423		Pass
20	QPSK	Low	Full	0	19.380	17.921	---	Pass
		Mid	Full	0	19.380	17.838		Pass
		High	Full	0	19.230	17.856		Pass
	16QAM	Low	Full	0	19.220	17.888	---	Pass
		Mid	Full	0	19.200	17.870		Pass
		High	Full	0	19.310	17.875		Pass

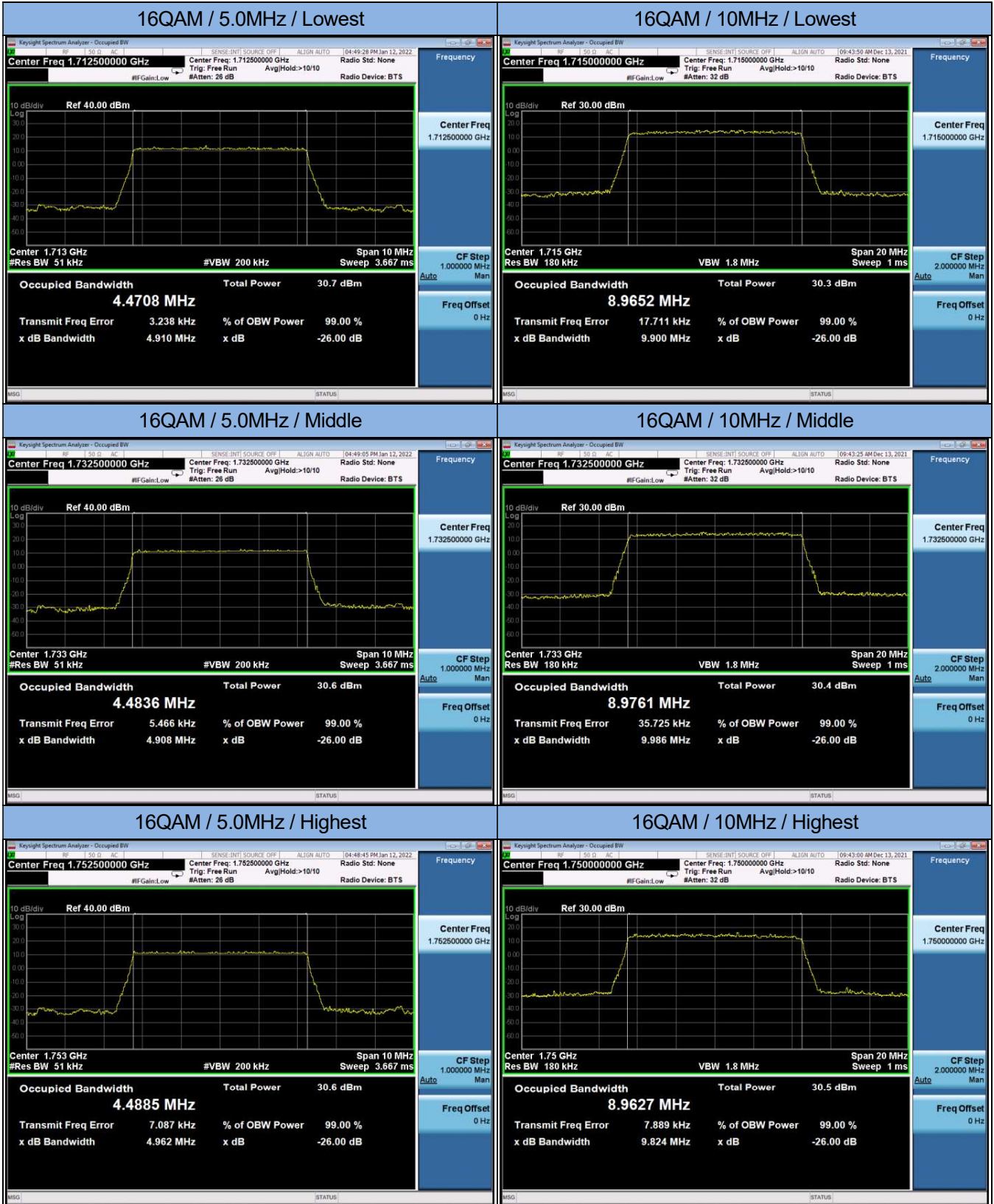


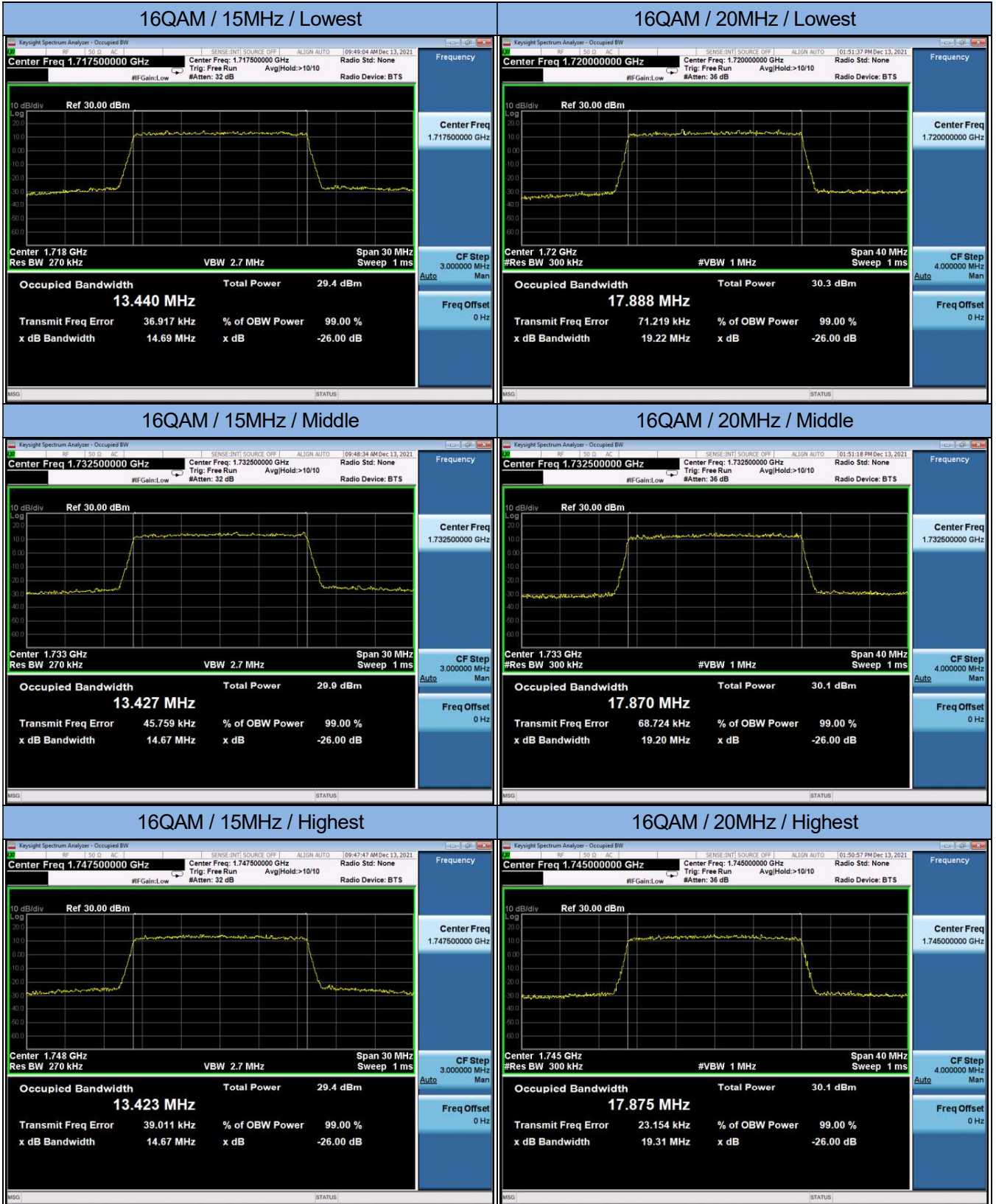




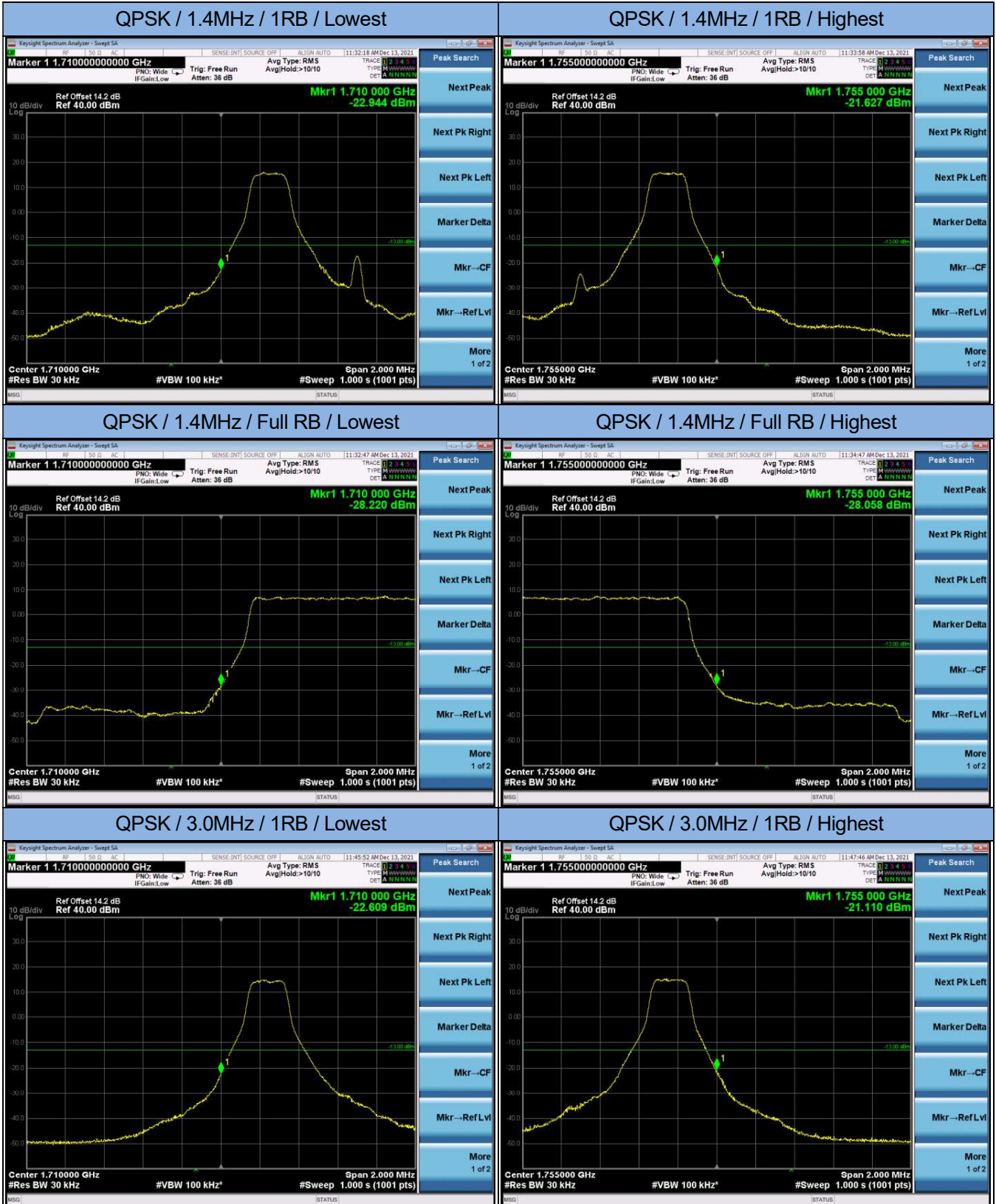


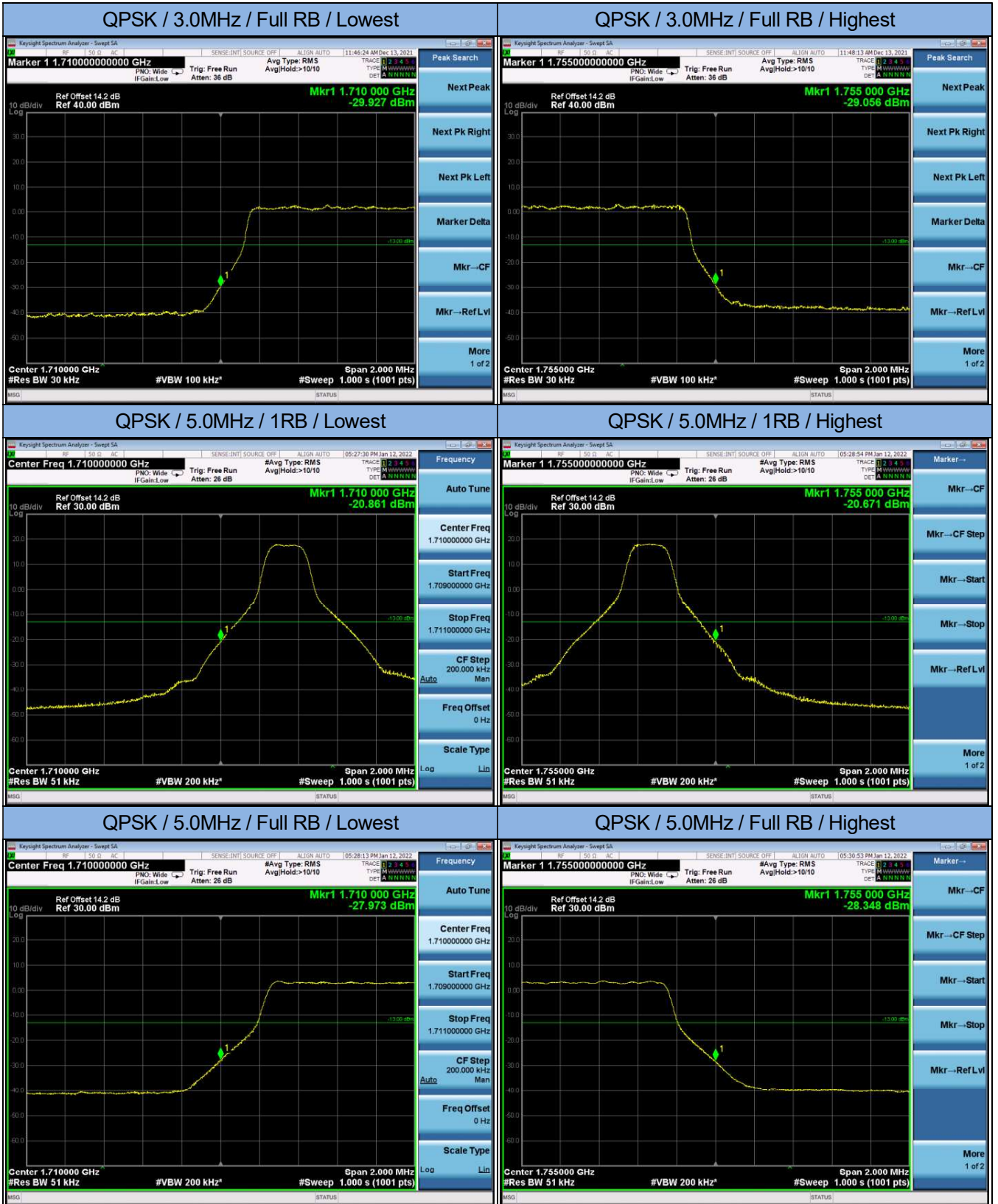


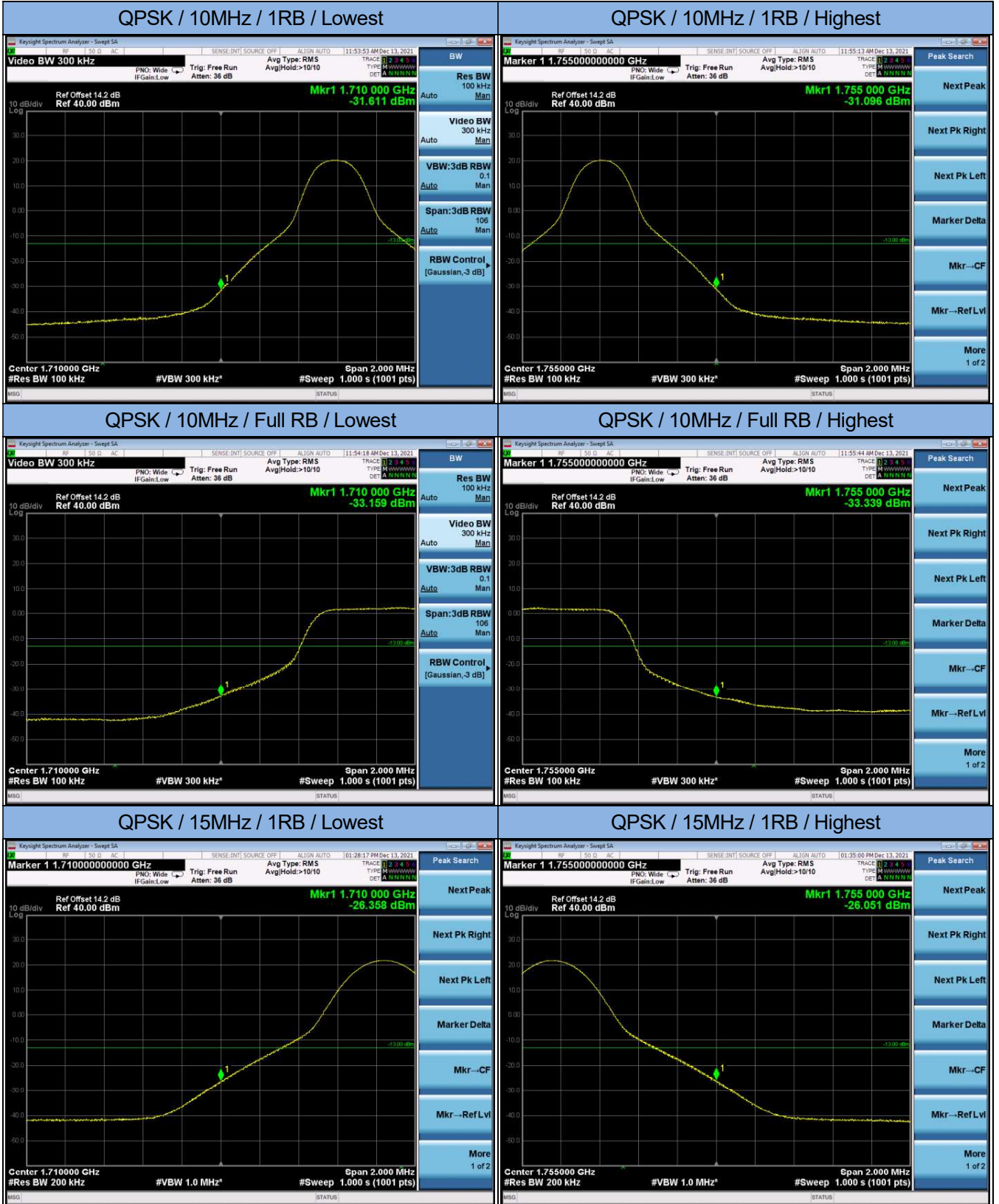


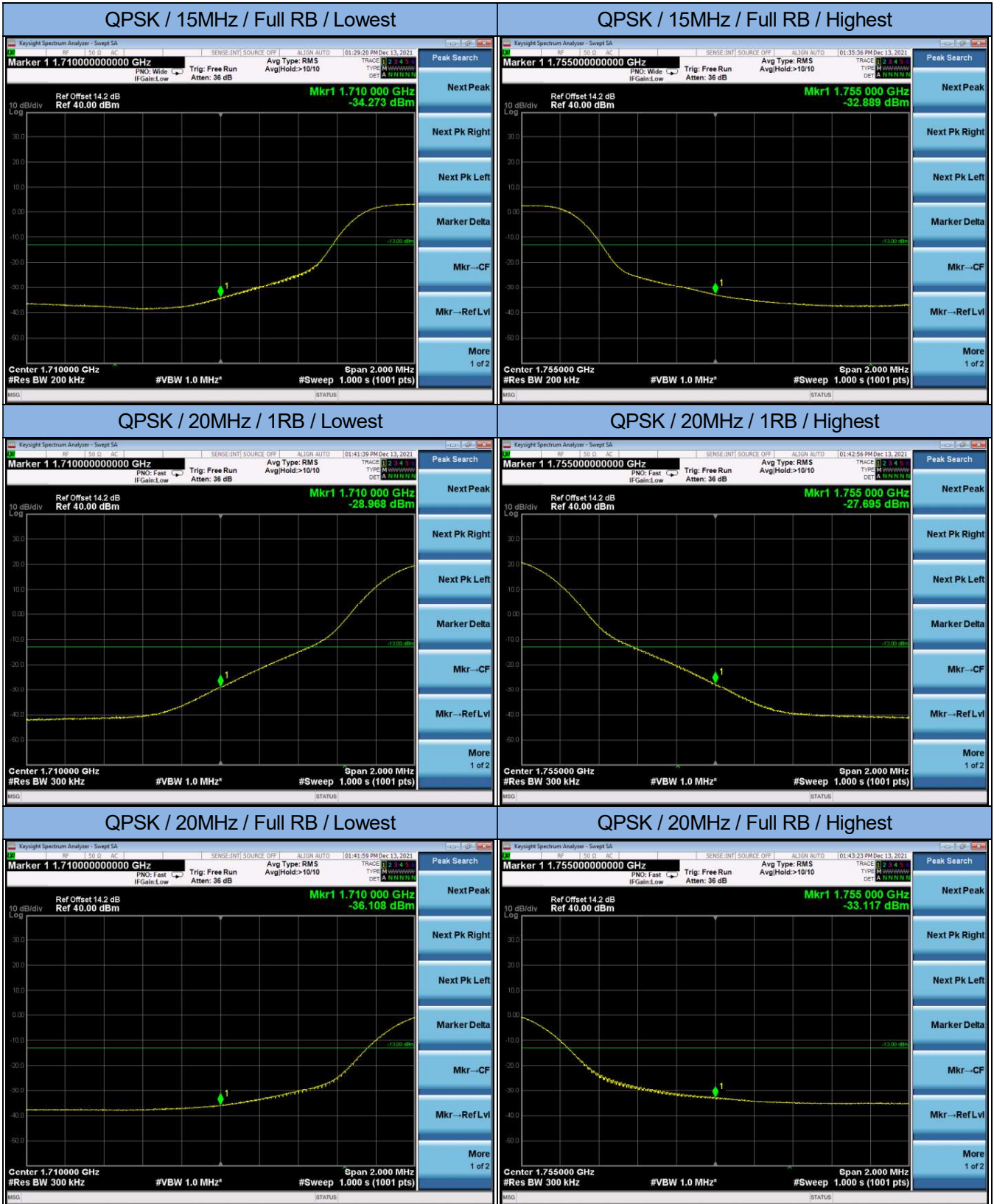


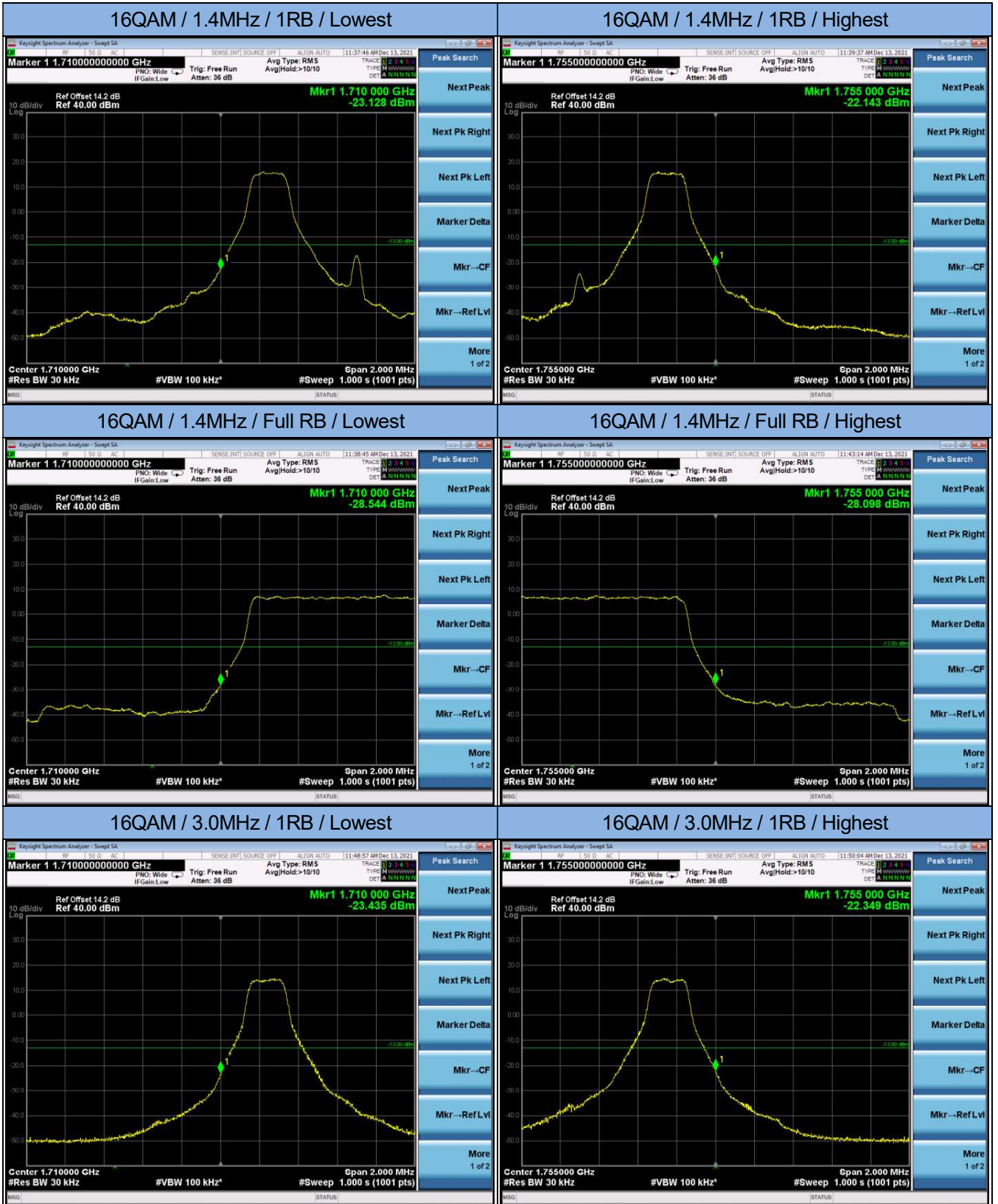
### 5. Band Edge

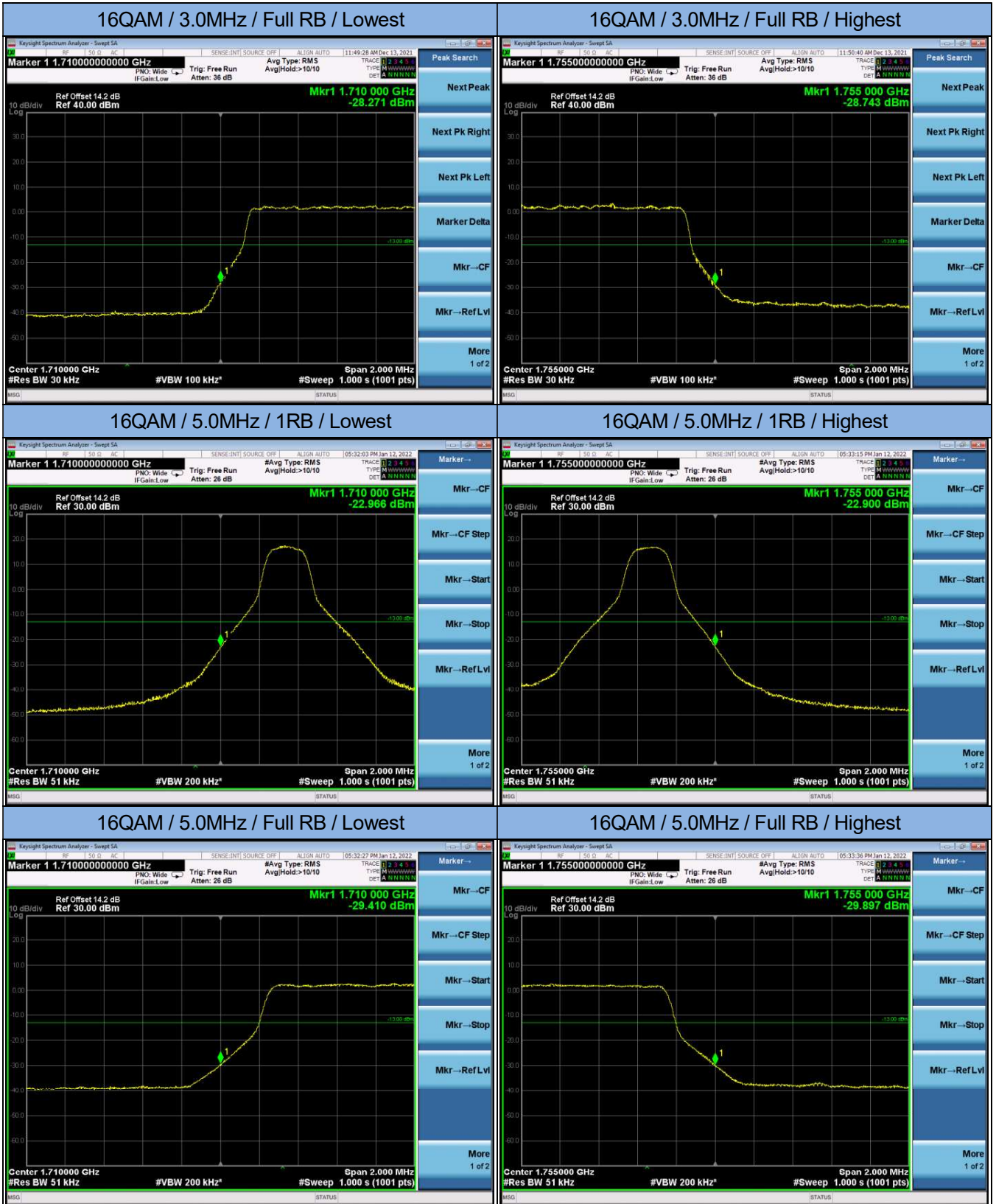




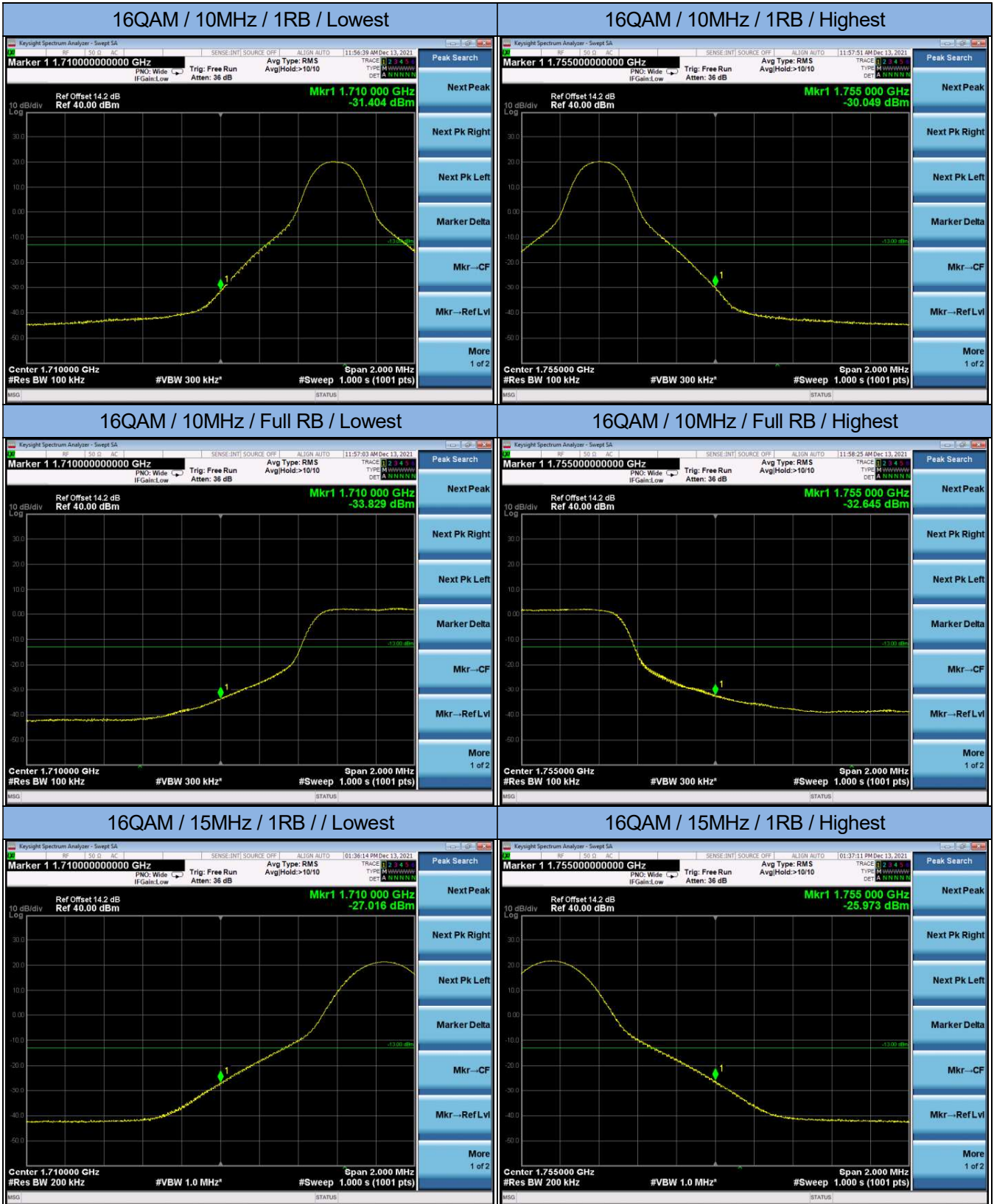






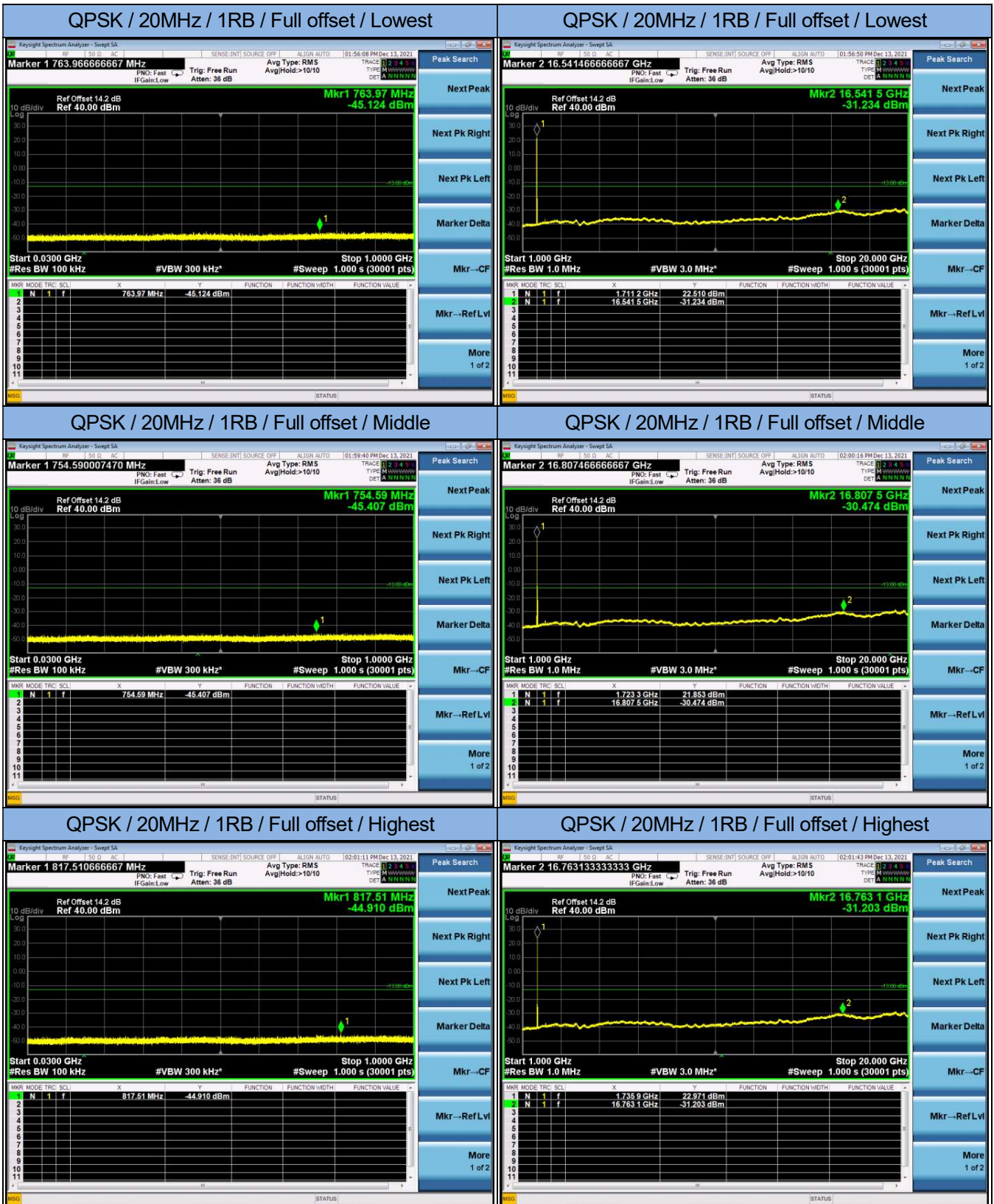








### 6. Transmitter Spurious Emissions





### 7. Field Strength of Spurious Radiation

LTE Band 4 / 20M / QPSK					
Channel	Frequency (MHz)	Polarization (H/V)	Meas. Level (dBm)	Limit (dBm)	Margin (dBm)
Lowest	149.3100	H	-64.32	-13	-51.32
	3440	H	-37.25	-13	-24.25
	5160	H	-31.68	-13	-18.68
	6880	H	-25.04	-13	-12.04
	554.7700	V	-68.57	-13	-55.57
	3440	V	-32.20	-13	-19.20
	5160	V	-29.97	-13	-16.97
	6880	V	-25.18	-13	-12.18
Middle	149.3100	H	-65.54	-13	-52.54
	3465	H	-36.36	-13	-23.36
	5197.5	H	-30.83	-13	-17.83
	6930	H	-25.14	-13	-12.14
	652.2270	V	-66.23	-13	-53.23
	3465	V	-31.64	-13	-18.64
	5197.5	V	-30.24	-13	-17.24
	6930	V	-22.57	-13	-9.57
Highest	149.3100	H	-66.71	-13	-53.71
	3490	H	-36.92	-13	-23.92
	5235	H	-32.10	-13	-19.10
	6980	H	-24.33	-13	-11.33
	584.7600	V	-67.71	-13	-54.71
	3490	V	-31.23	-13	-18.23
	5235	V	-30.99	-13	-17.99
	6980	V	-23.48	-13	-10.48

Note: Other emissions are more than 20dB below the limits.

## 8. Frequency Stability

LTE Band 4 / 20M / QPSK / Full RB					
Middle channel, $f_o = 1732.5$ MHz					
Temperature (°C)	Power Supplied (Vdc)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (dBm)	Result
-30	12	2.4	0.001385	±2.5	PASS
-20		3.1	0.001789	±2.5	PASS
-10		-4.5	-0.002597	±2.5	PASS
0		2.7	0.001558	±2.5	PASS
20		3.6	0.002078	±2.5	PASS
30		-2.2	-0.001270	±2.5	PASS
40		-2.9	-0.001674	±2.5	PASS
50		4.3	0.002482	±2.5	PASS
20		10.8	2.5	0.001443	±2.5
	52.8	3.6	0.002078	±2.5	PASS

---End---