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Appendix B.9

LTE Band 13



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B13_5MHz_ERP (NPANT002)

1.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	779.5	1	0	23.24	3.28	24.37	<=34.77	Pass		
			13	23.25	3.28	24.38	<=34.77	Pass		
			24	23.06	3.28	24.19	<=34.77	Pass		
		12	0	22.16	3.28	23.29	<=34.77	Pass		
			6	22.17	3.28	23.3	<=34.77	Pass		
			13	22.13	3.28	23.26	<=34.77	Pass		
		25	0	22.15	3.28	23.28	<=34.77	Pass		
		782	1	0	23.15	3.28	24.28	<=34.77	Pass	
				13	23.15	3.28	24.28	<=34.77	Pass	
	24			23.11	3.28	24.24	<=34.77	Pass		
	12		0	22.18	3.28	23.31	<=34.77	Pass		
			6	22.19	3.28	23.32	<=34.77	Pass		
			13	22.10	3.28	23.23	<=34.77	Pass		
	25		0	22.18	3.28	23.31	<=34.77	Pass		
	784.5		1	0	23.12	3.28	24.25	<=34.77	Pass	
				13	23.26	3.28	24.39	<=34.77	Pass	
		24		23.16	3.28	24.29	<=34.77	Pass		
		12	0	22.17	3.28	23.3	<=34.77	Pass		
			6	22.19	3.28	23.32	<=34.77	Pass		
			13	22.21	3.28	23.34	<=34.77	Pass		
		25	0	22.17	3.28	23.3	<=34.77	Pass		
		16QAM	779.5	1	0	21.99	3.28	23.12	<=34.77	Pass
					13	22.05	3.28	23.18	<=34.77	Pass
	24				21.91	3.28	23.04	<=34.77	Pass	
12	0			21.19	3.28	22.32	<=34.77	Pass		
	6			21.23	3.28	22.36	<=34.77	Pass		
	13			21.15	3.28	22.28	<=34.77	Pass		
25	0			21.22	3.28	22.35	<=34.77	Pass		
782	1			0	22.36	3.28	23.49	<=34.77	Pass	
				13	22.41	3.28	23.54	<=34.77	Pass	
			24	22.41	3.28	23.54	<=34.77	Pass		
	12		0	21.26	3.28	22.39	<=34.77	Pass		
			6	21.25	3.28	22.38	<=34.77	Pass		
			13	21.18	3.28	22.31	<=34.77	Pass		
	25		0	21.19	3.28	22.32	<=34.77	Pass		
	784.5		1	0	22.22	3.28	23.35	<=34.77	Pass	
				13	22.36	3.28	23.49	<=34.77	Pass	
24				22.29	3.28	23.42	<=34.77	Pass		
12			0	21.19	3.28	22.32	<=34.77	Pass		
			6	21.21	3.28	22.34	<=34.77	Pass		



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		13	21.27	3.28	22.4	<=34.77	Pass
	25	0	21.21	3.28	22.34	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.2 B13_10MHz_ERP

1.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	782	1	0	23.23	3.28	24.36	<=34.77	Pass		
			25	23.10	3.28	24.23	<=34.77	Pass		
			49	23.03	3.28	24.16	<=34.77	Pass		
		25	0	22.18	3.28	23.31	<=34.77	Pass		
			13	22.20	3.28	23.33	<=34.77	Pass		
			25	22.16	3.28	23.29	<=34.77	Pass		
		50	0	22.21	3.28	23.34	<=34.77	Pass		
		16QAM	782	1	0	22.67	3.28	23.8	<=34.77	Pass
					25	22.63	3.28	23.76	<=34.77	Pass
49	22.64				3.28	23.77	<=34.77	Pass		
25	0			21.25	3.28	22.38	<=34.77	Pass		
	13			21.28	3.28	22.41	<=34.77	Pass		
	25			21.24	3.28	22.37	<=34.77	Pass		
50	0			21.20	3.28	22.33	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.2 B13_10MHz

2.2.1 Test Result

Band: 13 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	3.135	-3.390	-0.0043	/	Pass
					3.7	-5.831	-0.0075	/	Pass
					4.4	-3.134	-0.0040	/	Pass
				-30	3.7	-5.631	-0.0072	/	Pass
				-20	3.7	-6.608	-0.0085	/	Pass
				-10	3.7	-4.724	-0.0060	/	Pass
				0	3.7	-0.461	-0.0006	/	Pass
				10	3.7	-1.844	-0.0024	/	Pass
				30	3.7	-1.729	-0.0022	/	Pass
				40	3.7	-5.910	-0.0076	/	Pass
16QAM	782	50	0	20	3.135	-6.358	-0.0081	/	Pass
					3.7	-2.203	-0.0028	/	Pass
					4.4	-6.317	-0.0081	/	Pass
				-30	3.7	-4.437	-0.0057	/	Pass
				-20	3.7	-5.759	-0.0074	/	Pass
				-10	3.7	-6.687	-0.0086	/	Pass
				0	3.7	0.741	0.0009	/	Pass
				10	3.7	-5.418	-0.0069	/	Pass
				30	3.7	0.182	0.0002	/	Pass
				40	3.7	-5.099	-0.0065	/	Pass
				50	3.7	-2.976	-0.0038	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band13_OBW

3.1.1 Test Result

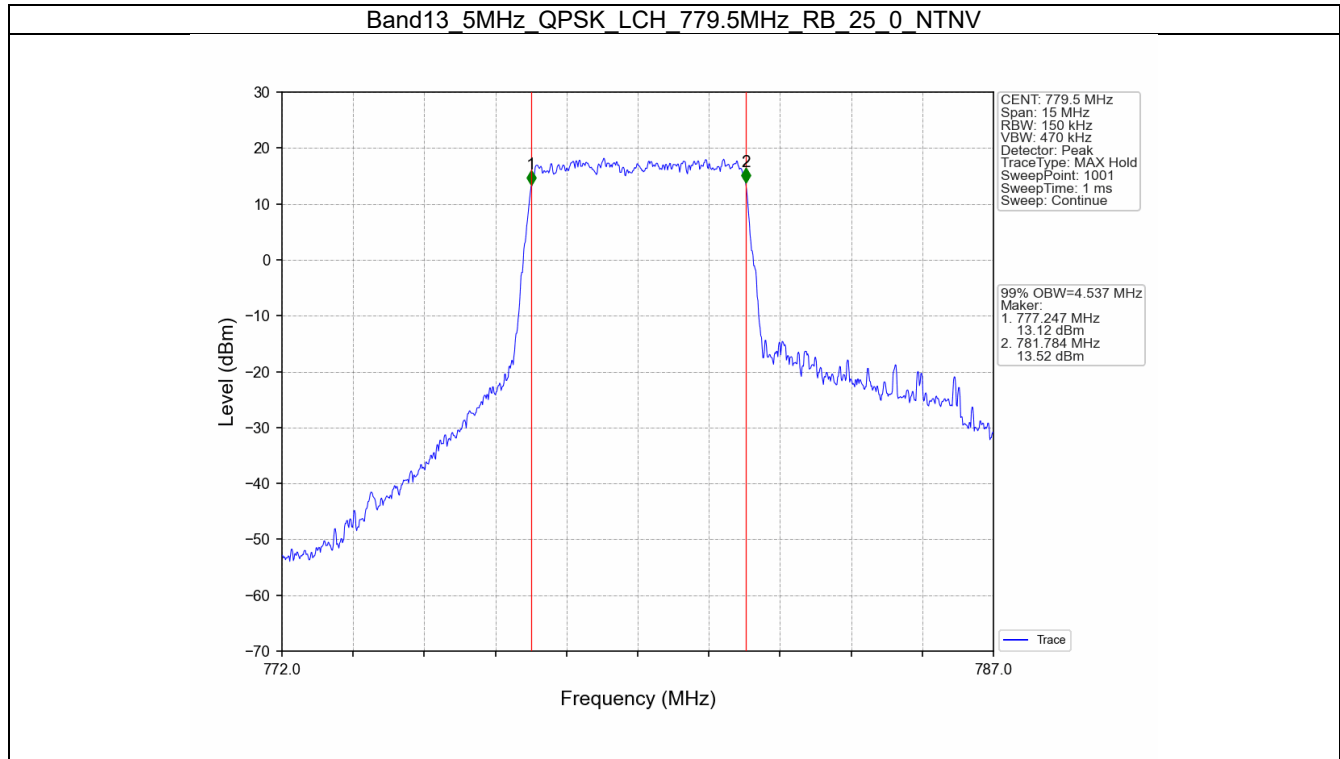
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.537	/	Pass
		782	25	0	4.549	/	Pass
		784.5	25	0	4.574	/	Pass
	16QAM	779.5	25	0	4.553	/	Pass
		782	25	0	4.564	/	Pass
		784.5	25	0	4.543	/	Pass
10	QPSK	782	50	0	9.016	/	Pass
	16QAM	782	50	0	9.047	/	Pass



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3.1.2 Test Graph



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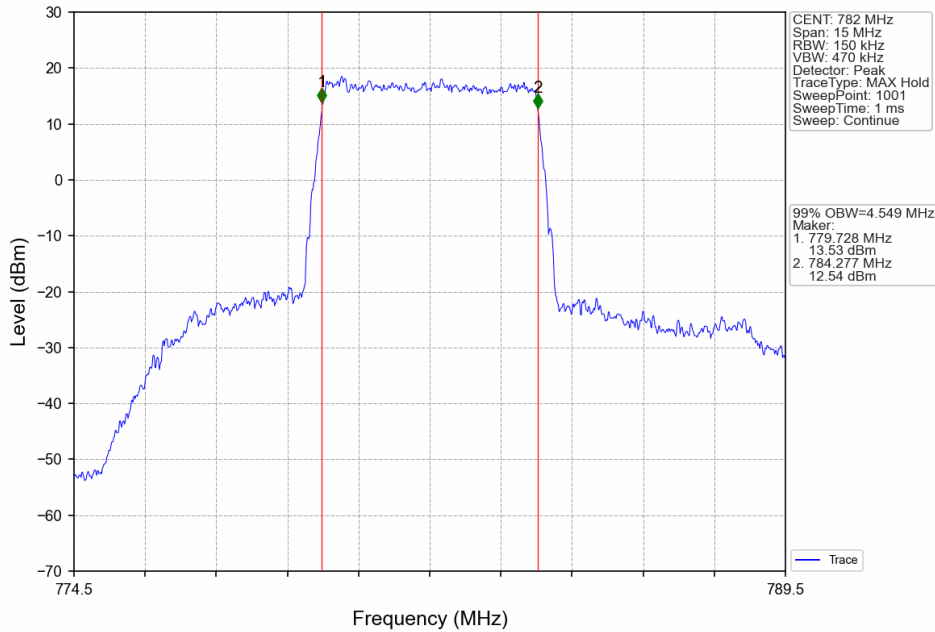
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Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



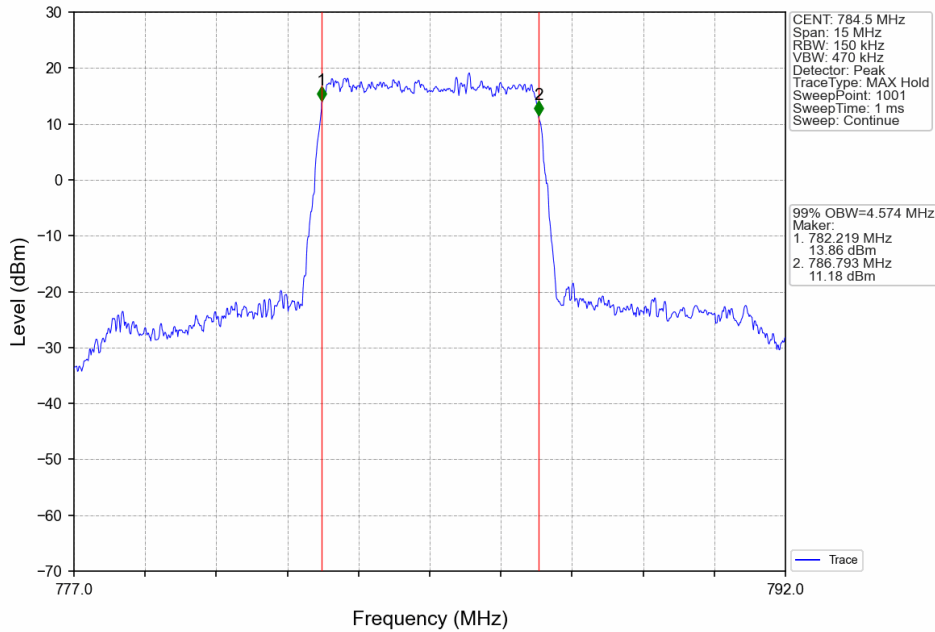
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



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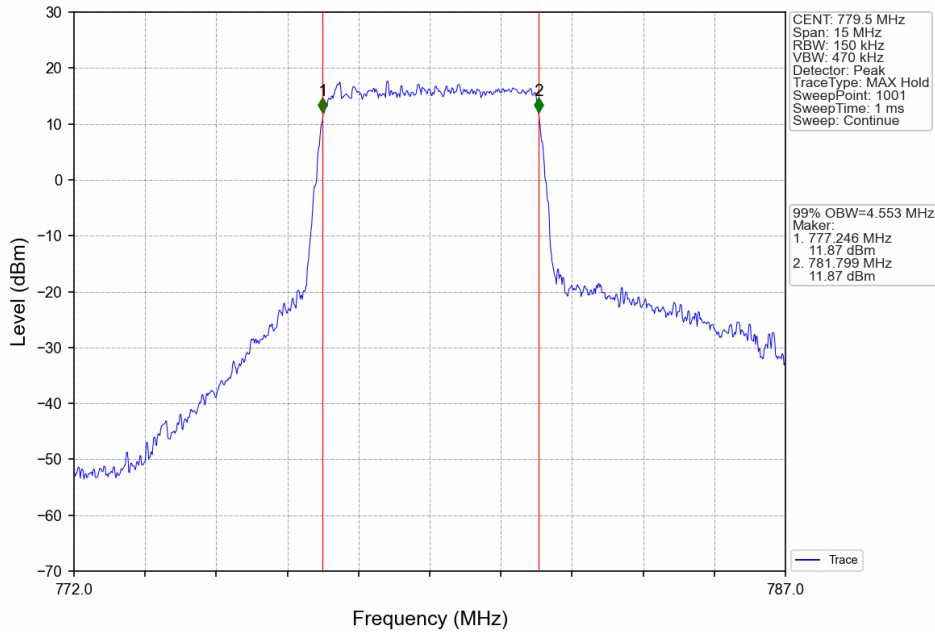
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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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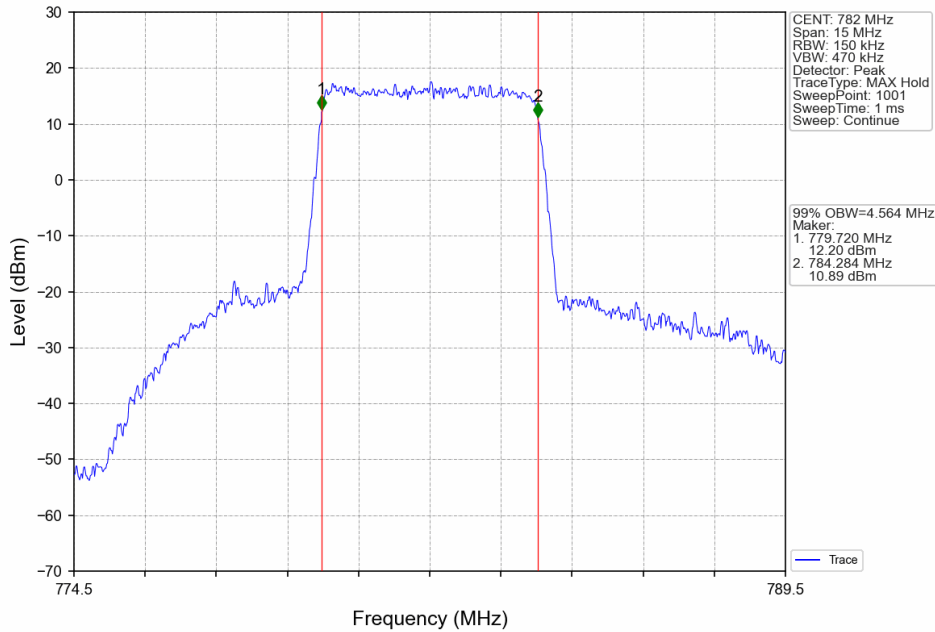
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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



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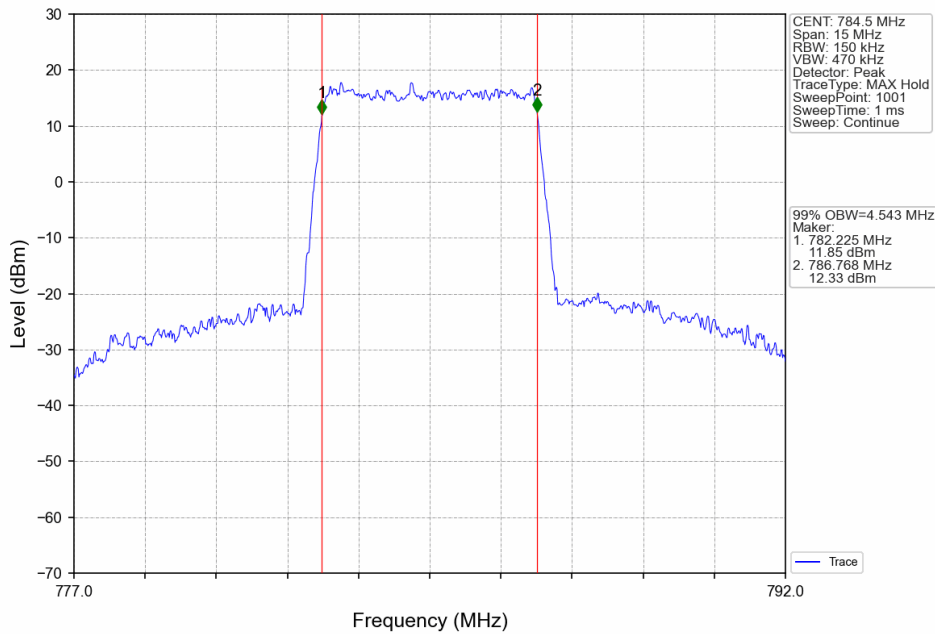


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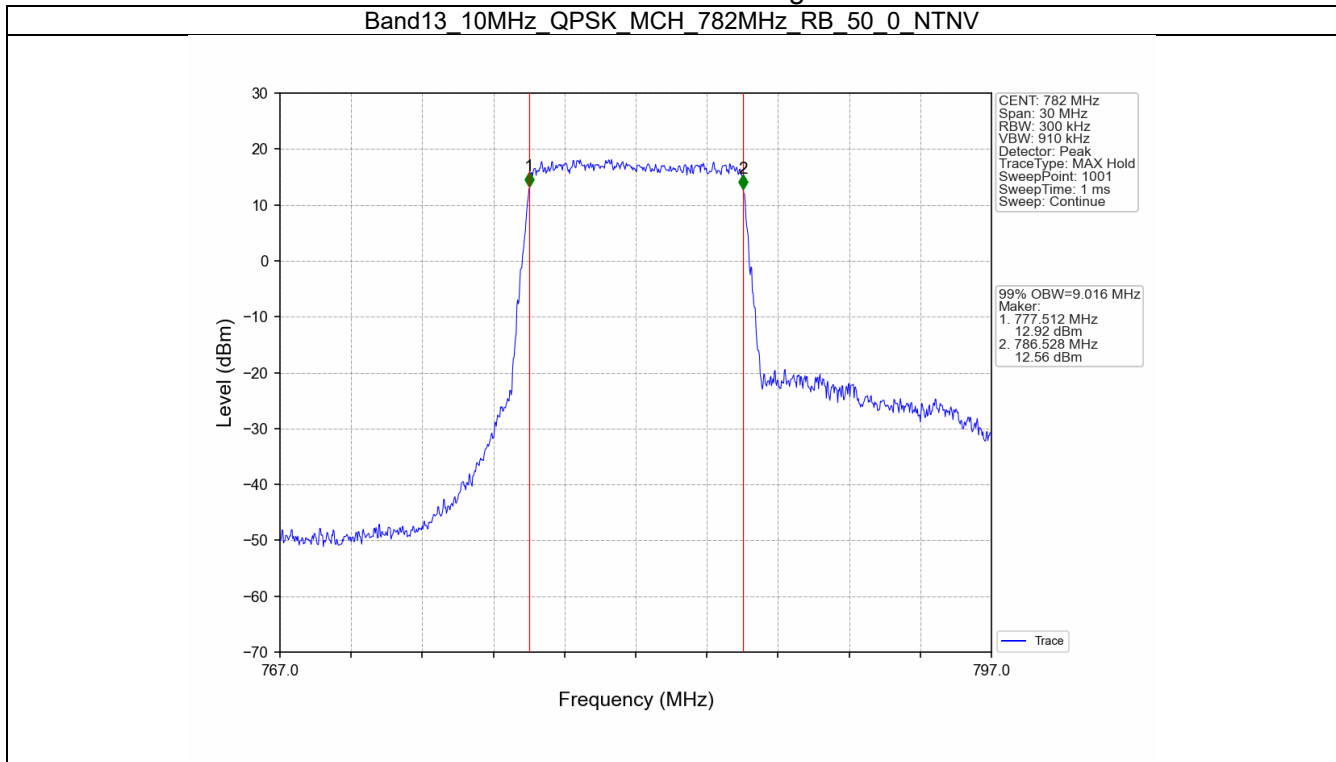
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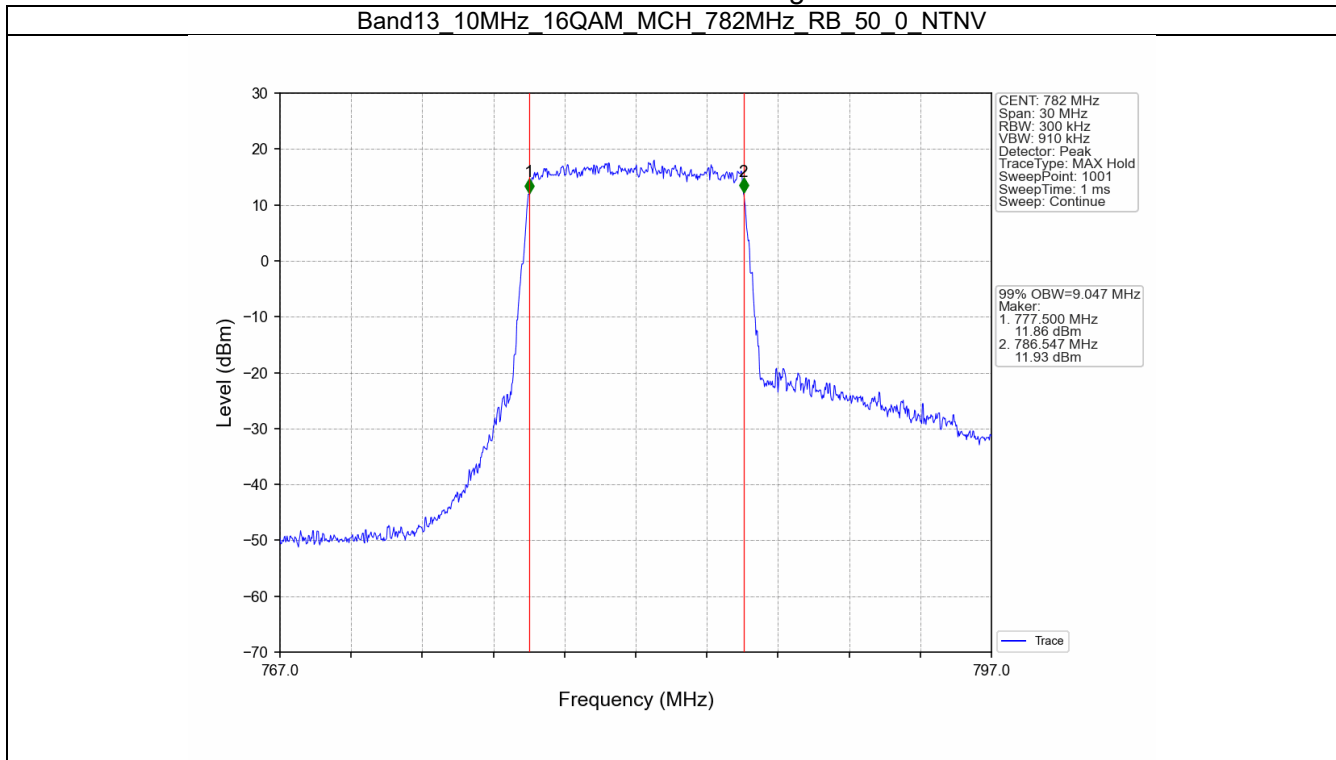
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3.2 Band13_XDB

3.2.1 Test Result

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.030	/	Pass
		782	25	0	5.016	/	Pass
		784.5	25	0	5.044	/	Pass
	16QAM	779.5	25	0	5.020	/	Pass
		782	25	0	5.068	/	Pass
		784.5	25	0	5.040	/	Pass
10	QPSK	782	50	0	9.985	/	Pass
	16QAM	782	50	0	9.935	/	Pass



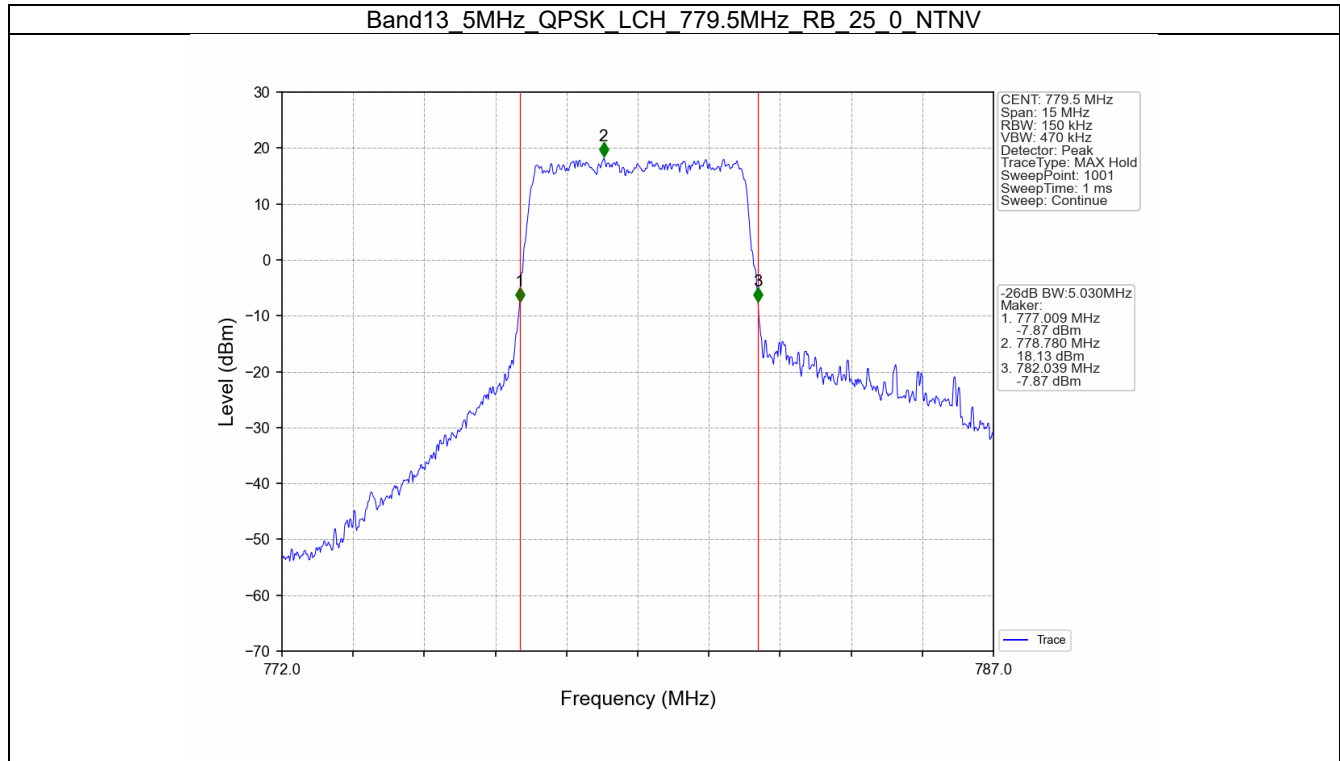
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3.2.2 Test Graph



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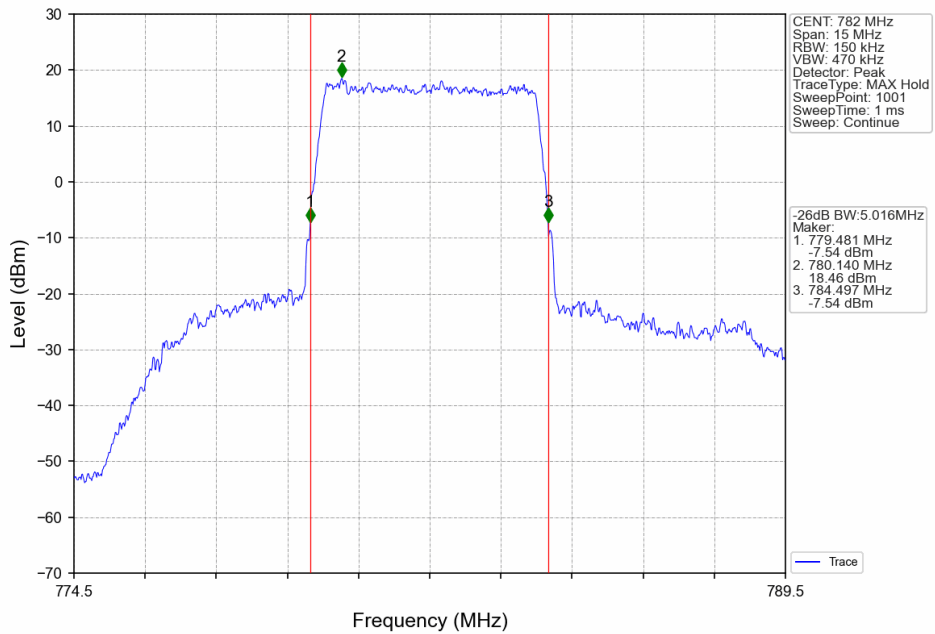
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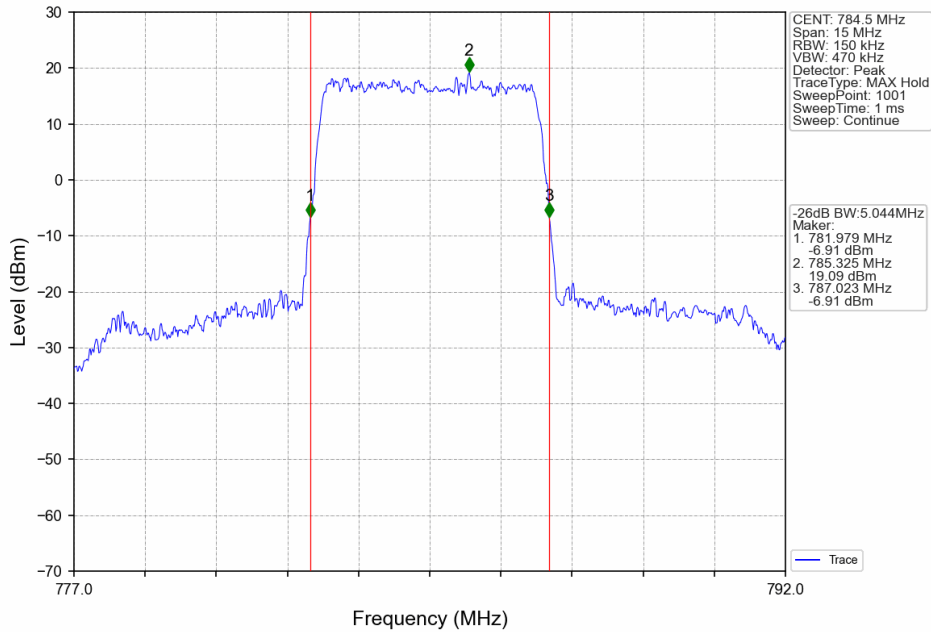
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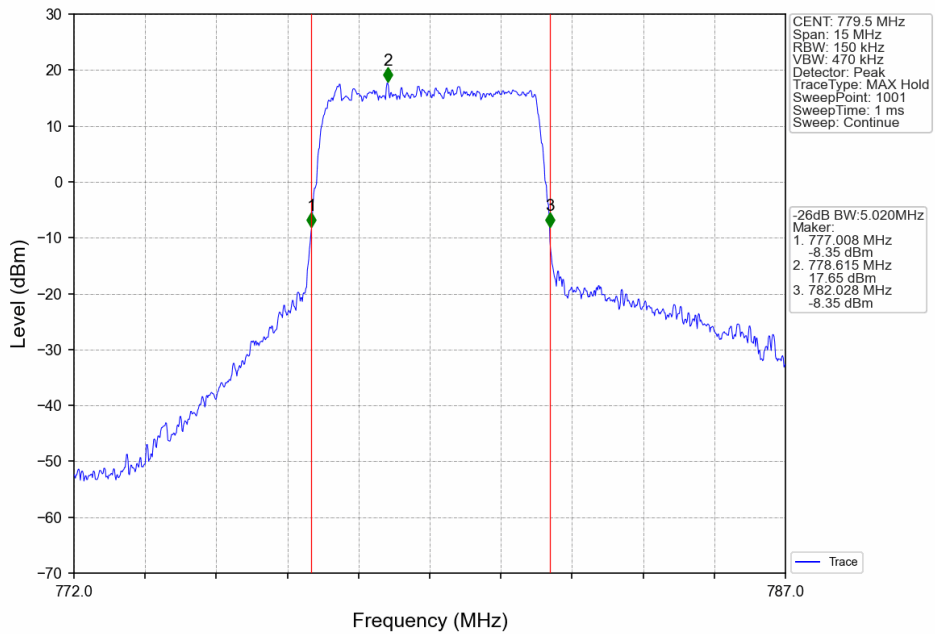
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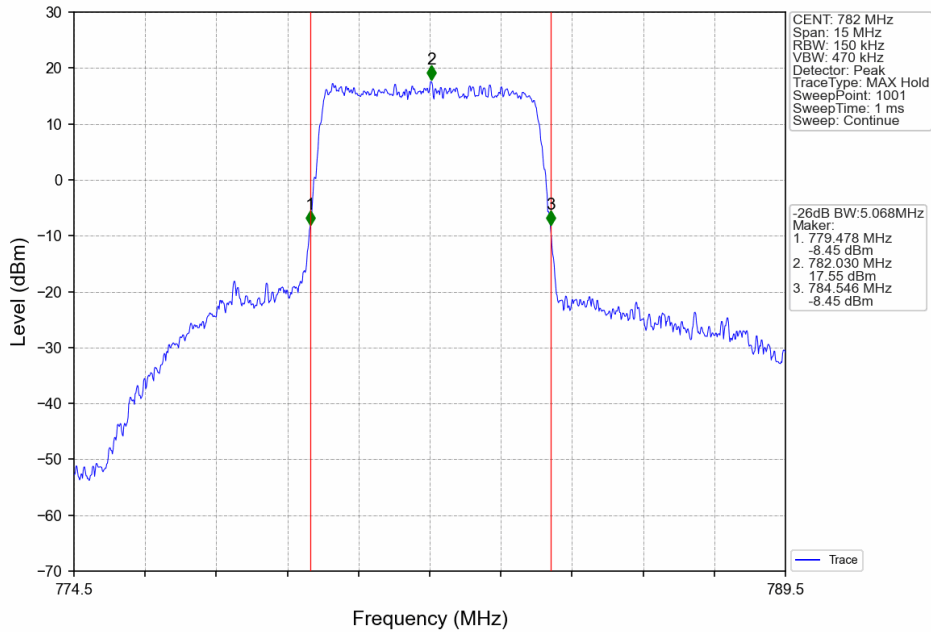
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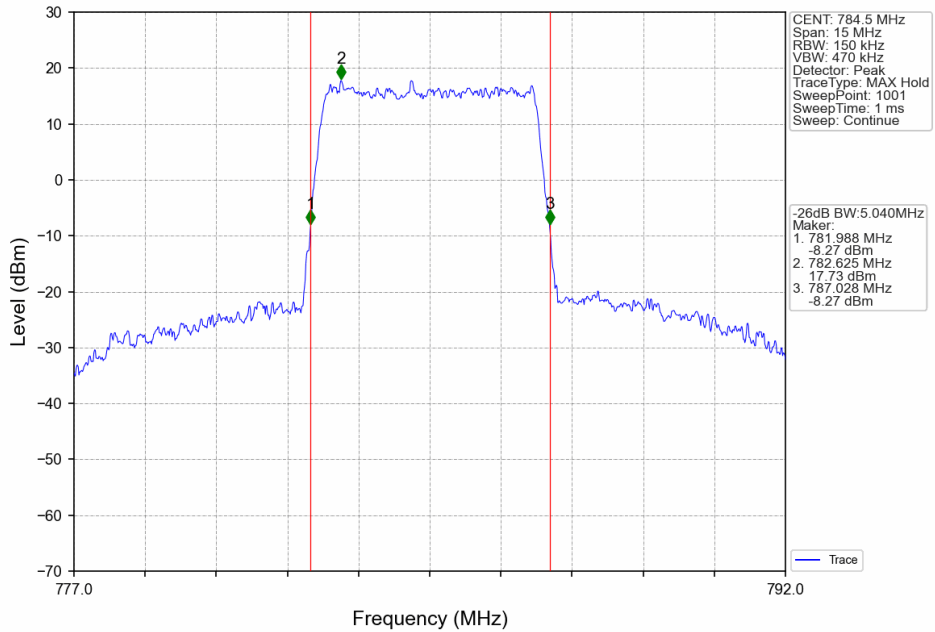
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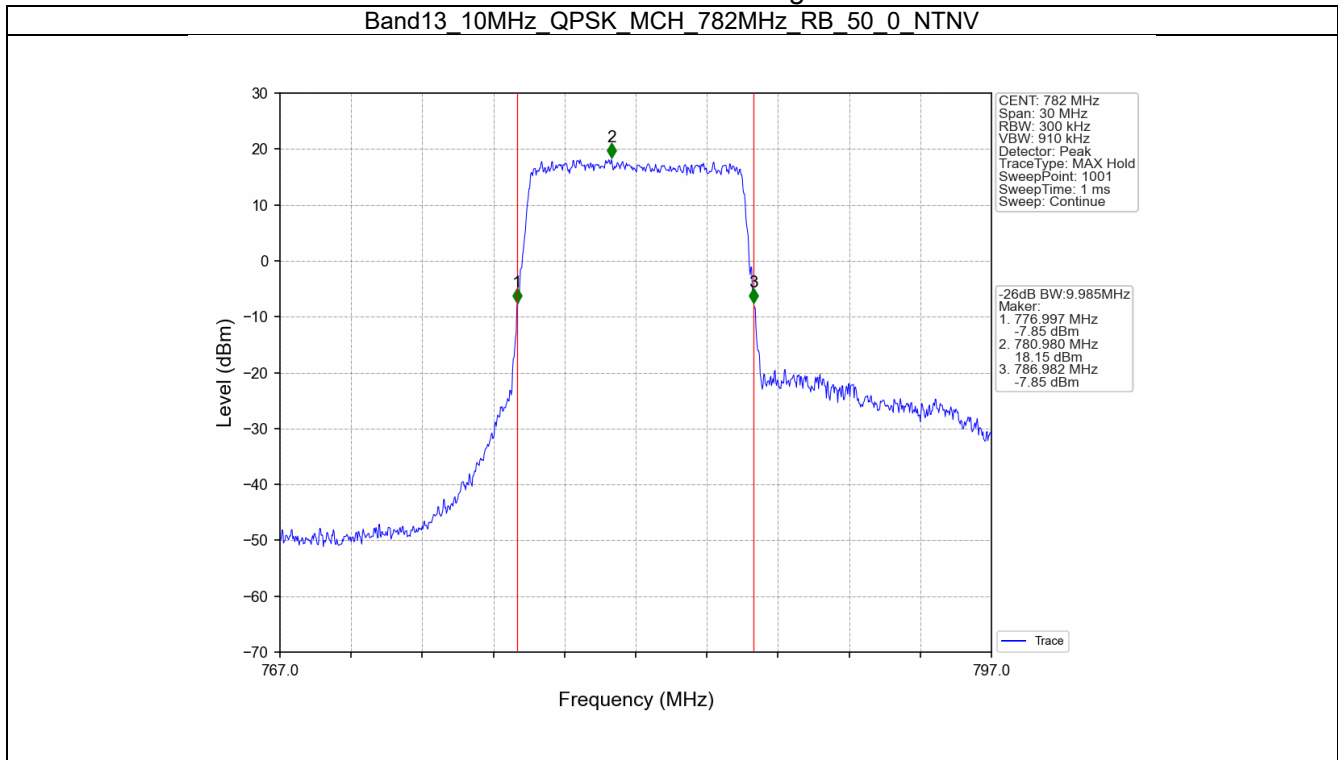
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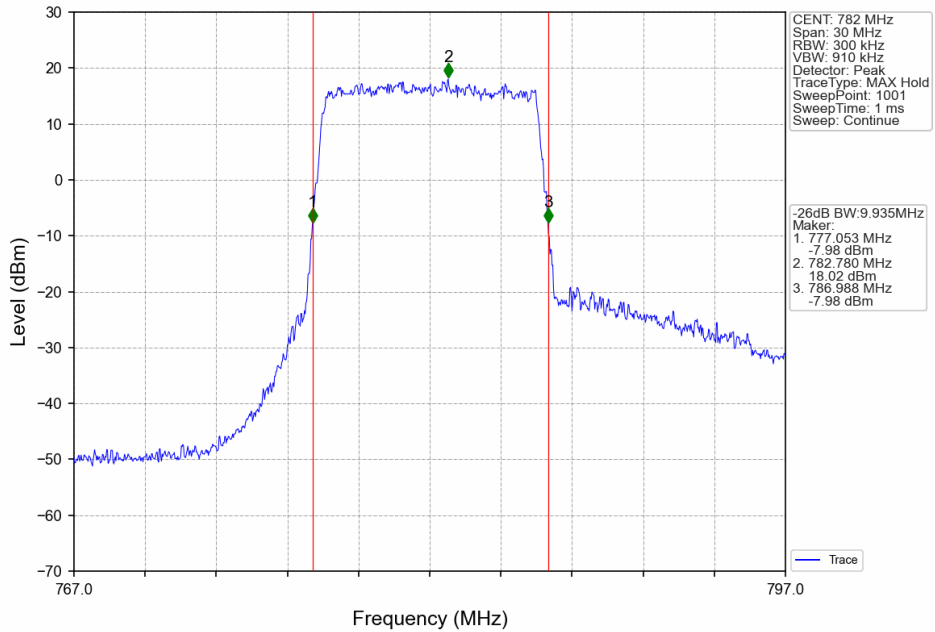
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4. Peak-Average Ratio

4.1 B13_5MHz

4.1.1 Test Result

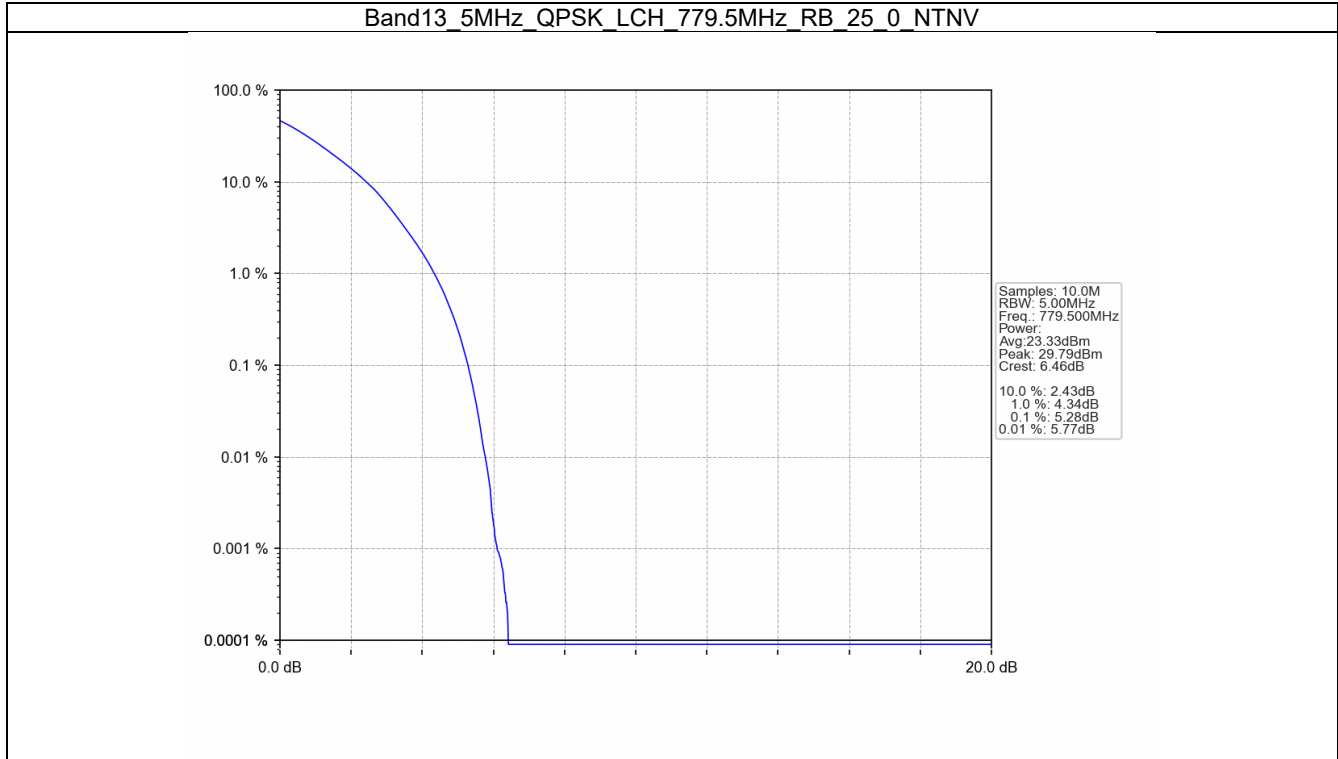
Band: 13 / Bandwidth: 5MHz / NTN							
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict	
		Size	Offset	Result	Limit		
QPSK	779.5	25	0	5.28	<=13	Pass	
	782	25	0	5.38	<=13	Pass	
	784.5	25	0	5.60	<=13	Pass	
16QAM	779.5	25	0	6.06	<=13	Pass	
	782	25	0	6.15	<=13	Pass	
	784.5	25	0	6.34	<=13	Pass	



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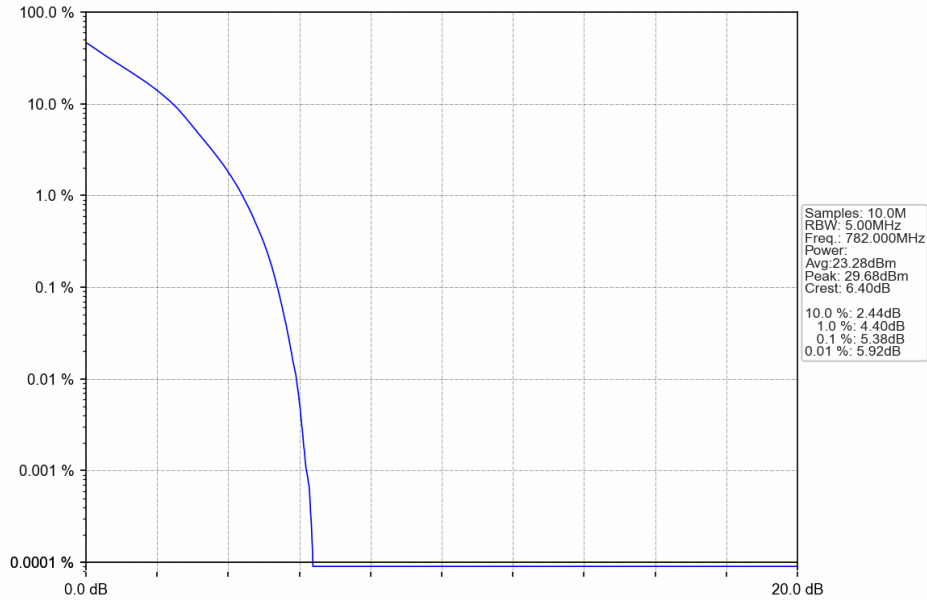
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Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



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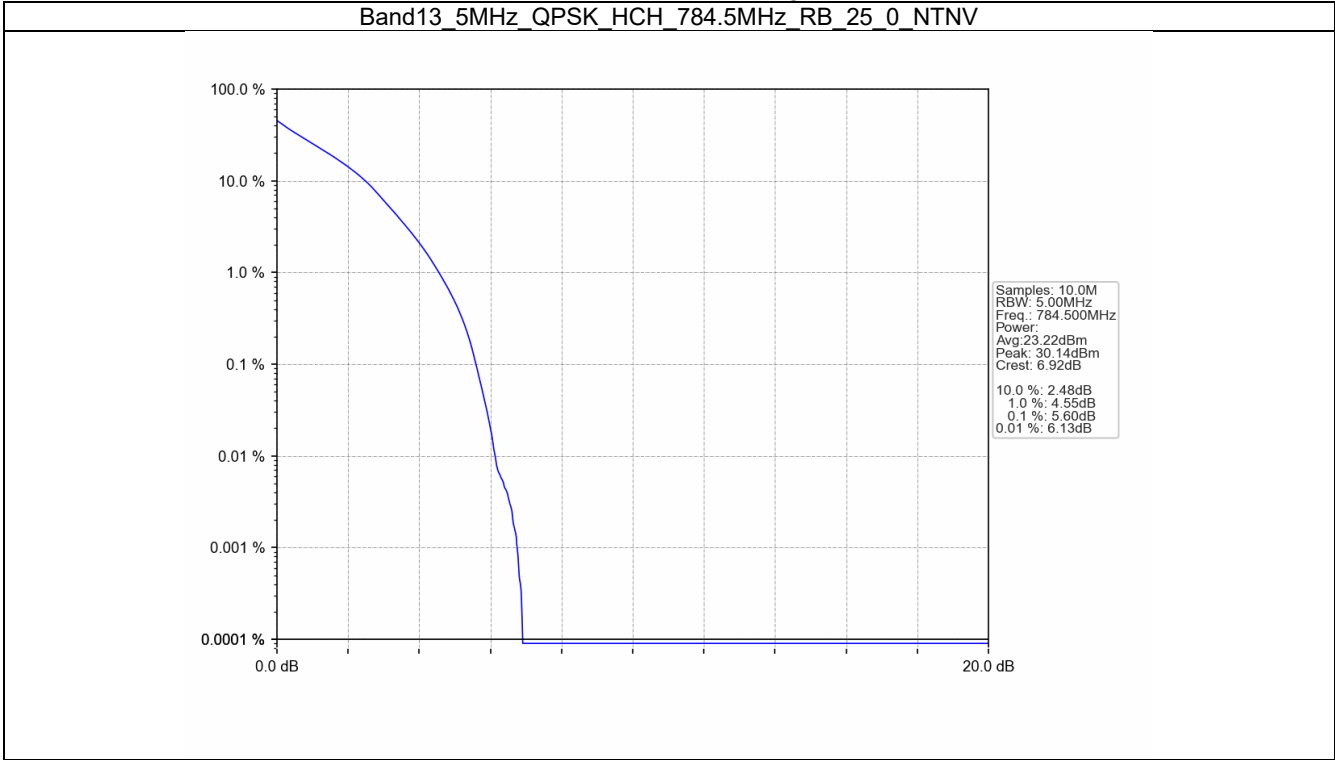
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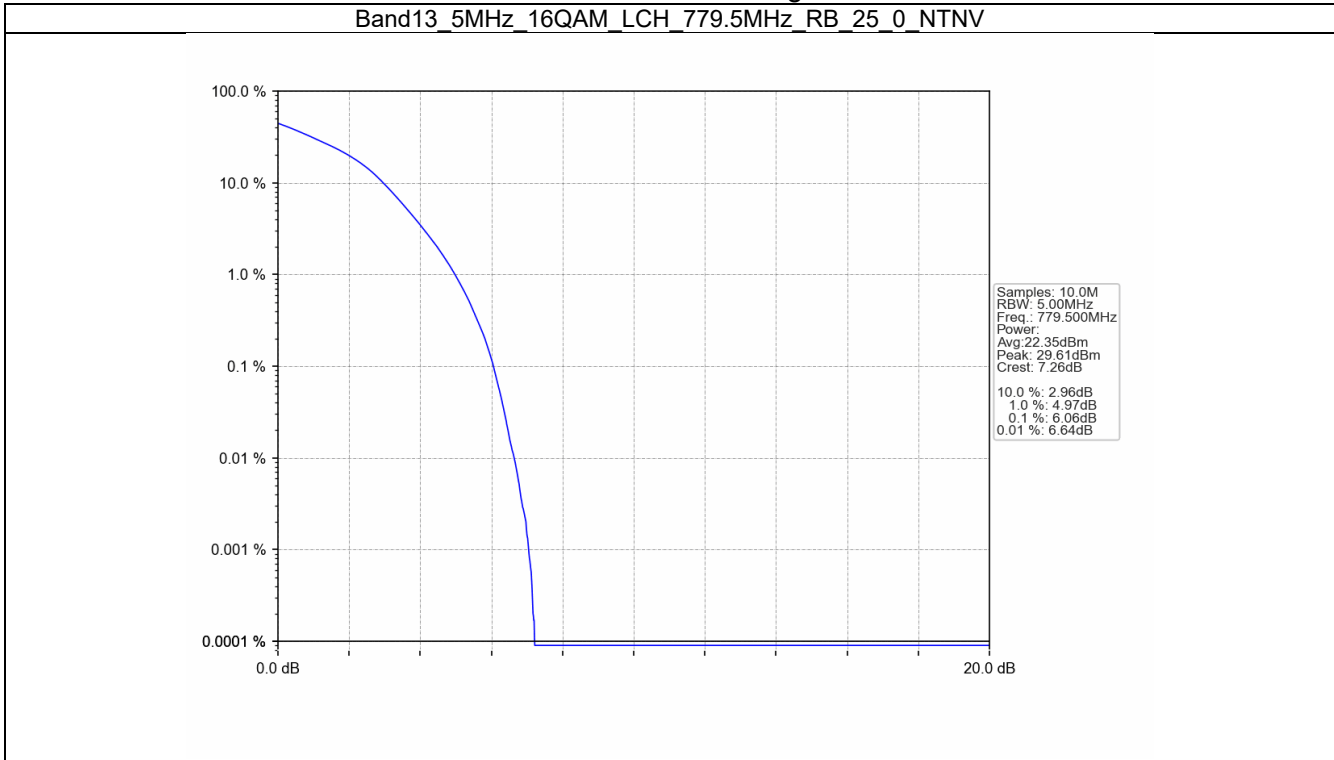
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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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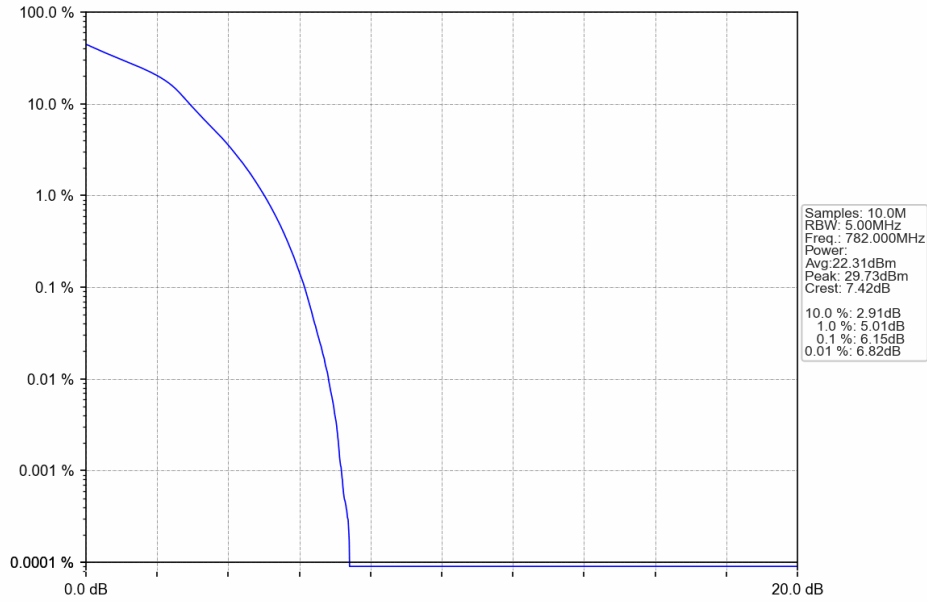
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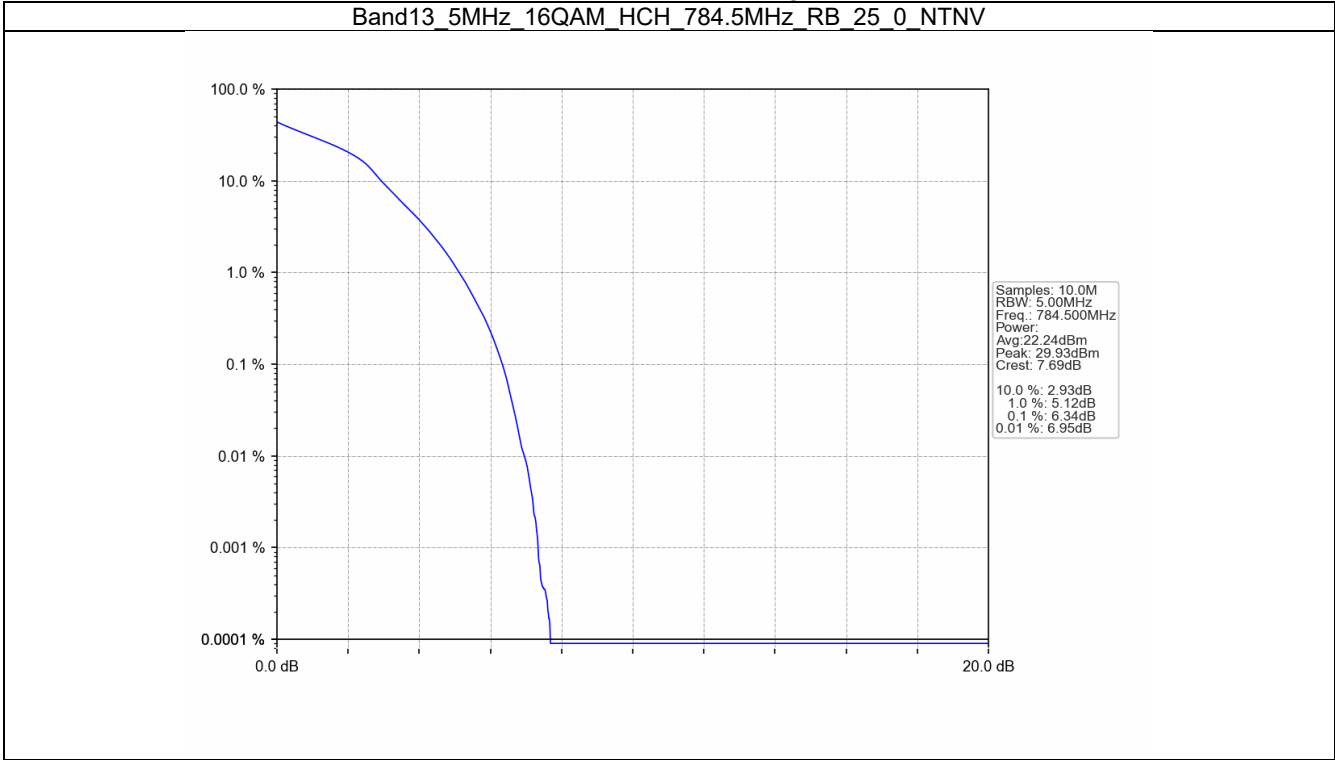
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4.2 B13_10MHz

4.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.42	<=13	Pass
16QAM	782	50	0	6.24	<=13	Pass



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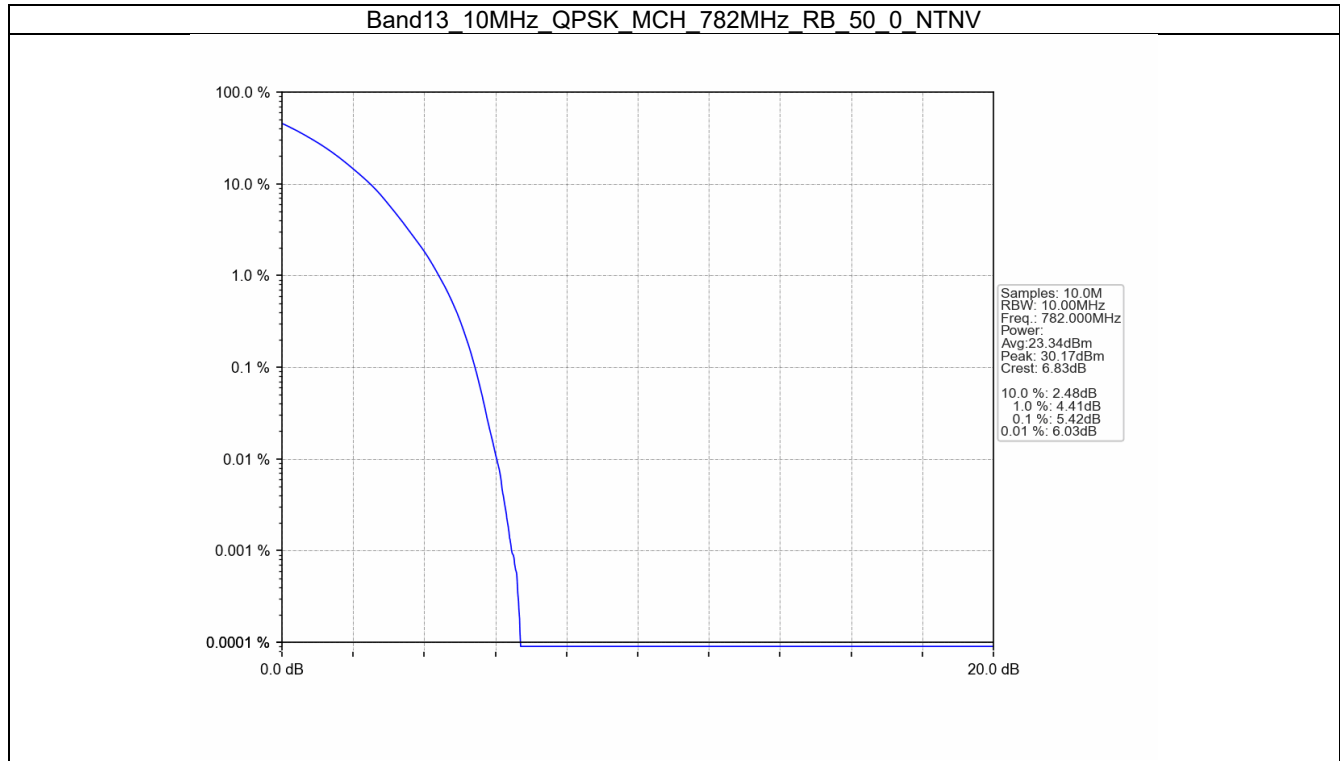
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4.2.2 Test Graph



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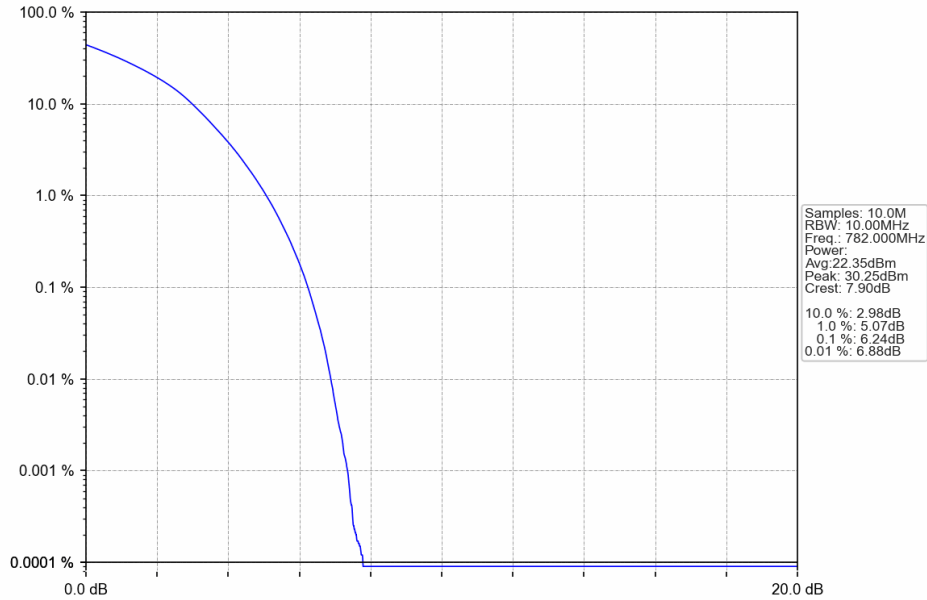
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Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



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5. Spurious Emission & Band Edge

5.1 B13_5MHz

5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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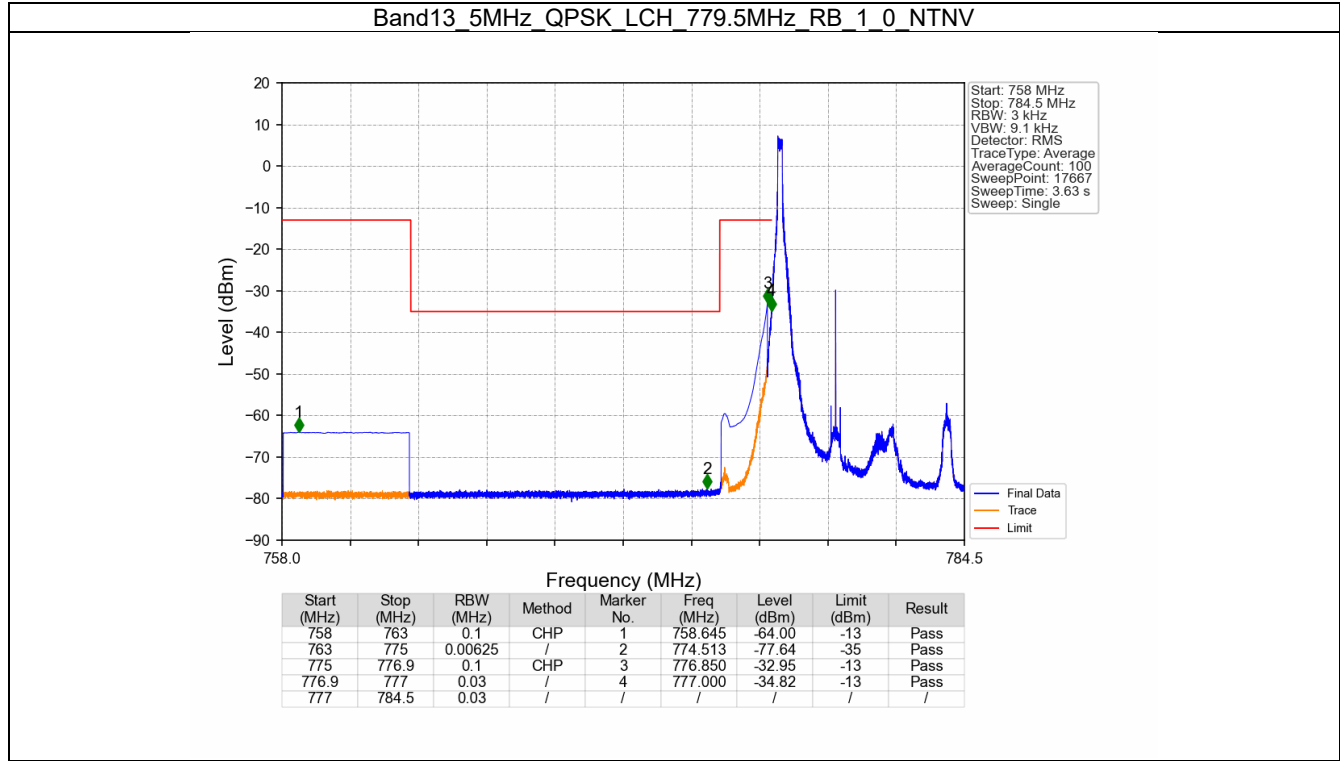
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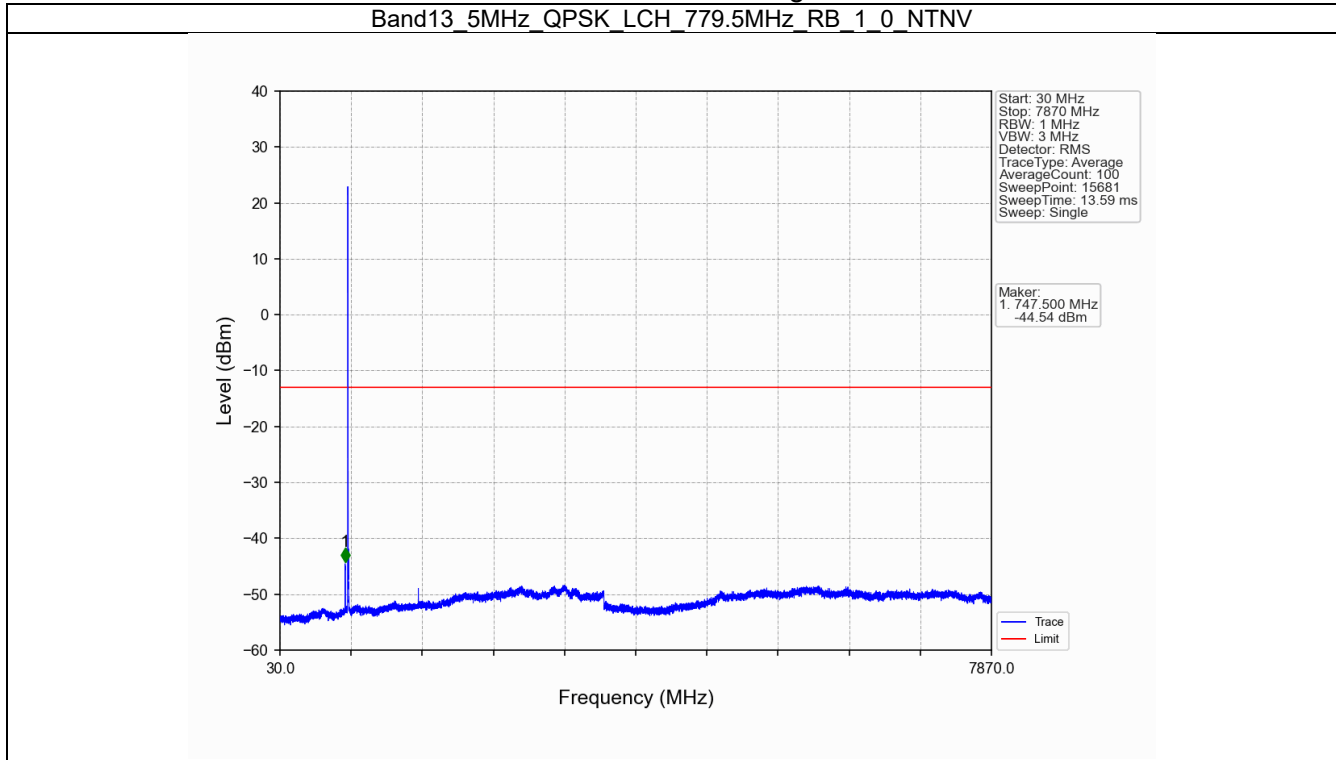


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Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



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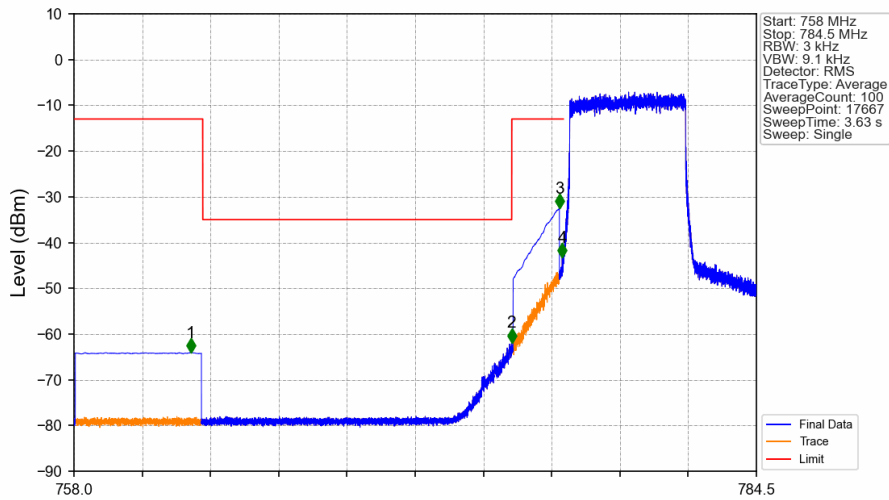
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.536	-64.06	-13	Pass
763	775	0.00625	/	2	774.996	-61.88	-35	Pass
775	776.9	0.1	CHP	3	776.848	-32.51	-13	Pass
776.9	777	0.03	/	4	776.958	-43.22	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



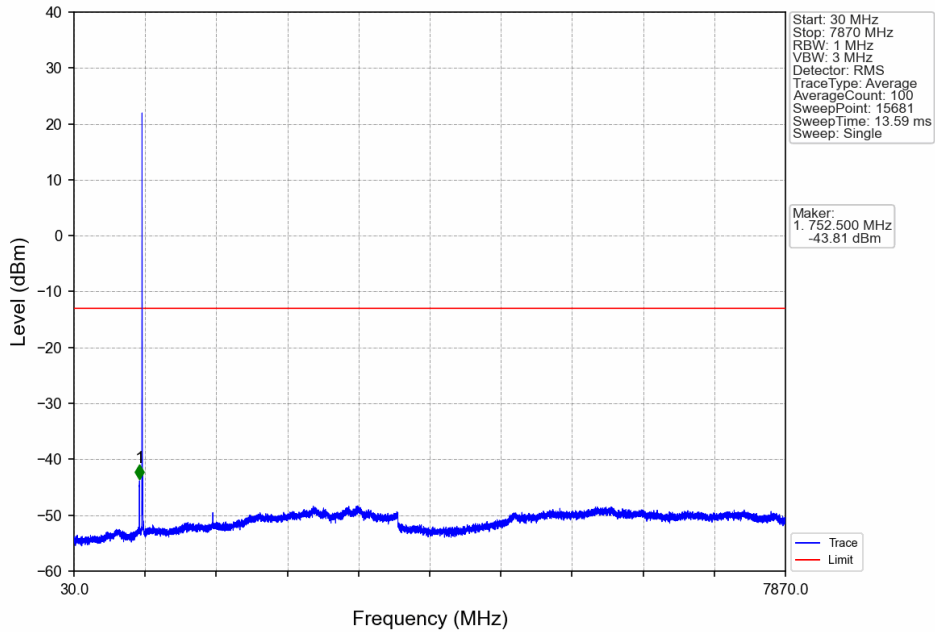
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Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



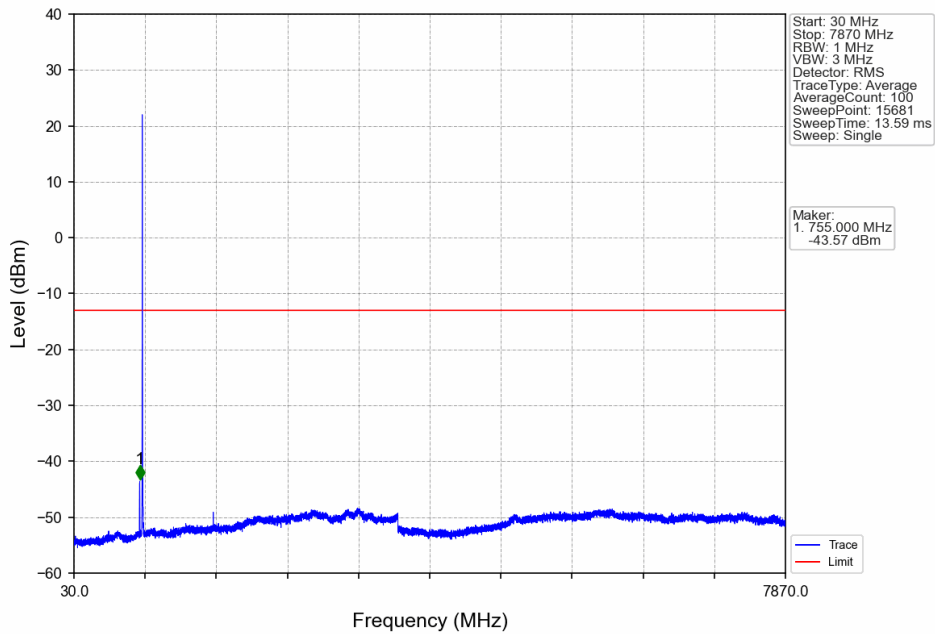
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV



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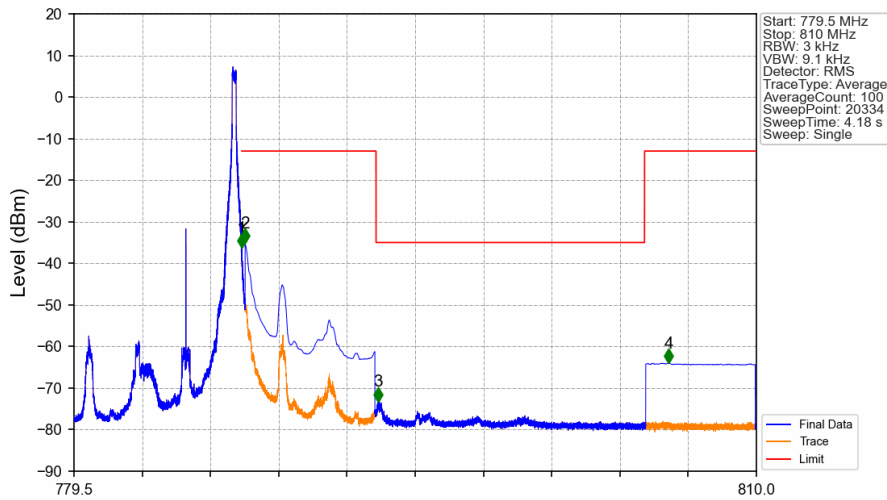
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Report No.: SUCR240400011301

Rev.: 01

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Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.1	CHP	1	787.000	-36.21	-13	Pass
787.1	793	0.1	CHP	2	787.150	-35.08	-13	Pass
793	805	0.00625	/	3	793.089	-73.25	-35	Pass
805	810	0.1	CHP	4	806.083	-64.00	-13	Pass

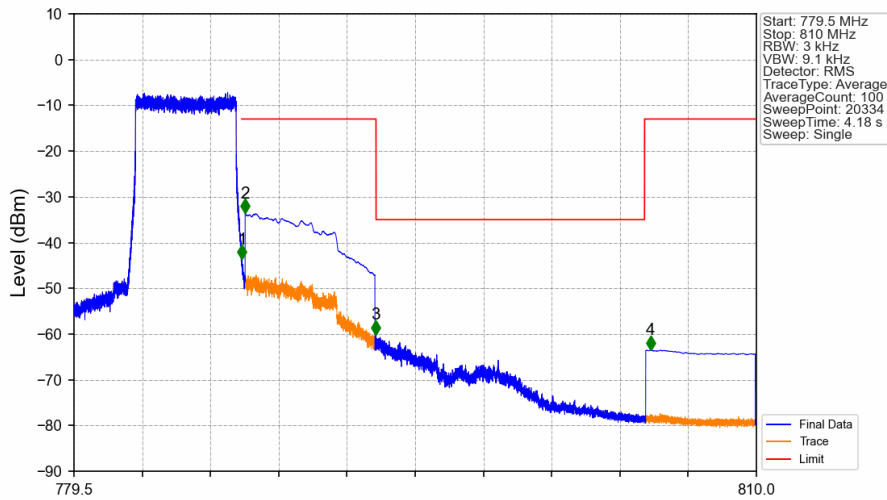


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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.1	/	1	787.008	-43.58	-13	Pass
787.1	793	0.1	CHP	2	787.150	-33.64	-13	Pass
793	805	0.00625	/	3	793.000	-60.11	-35	Pass
805	810	0.1	CHP	4	805.273	-63.46	-13	Pass



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Report No.: SUCR240400011301
 Rev.: 01
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5.2 B13_10MHz

5.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

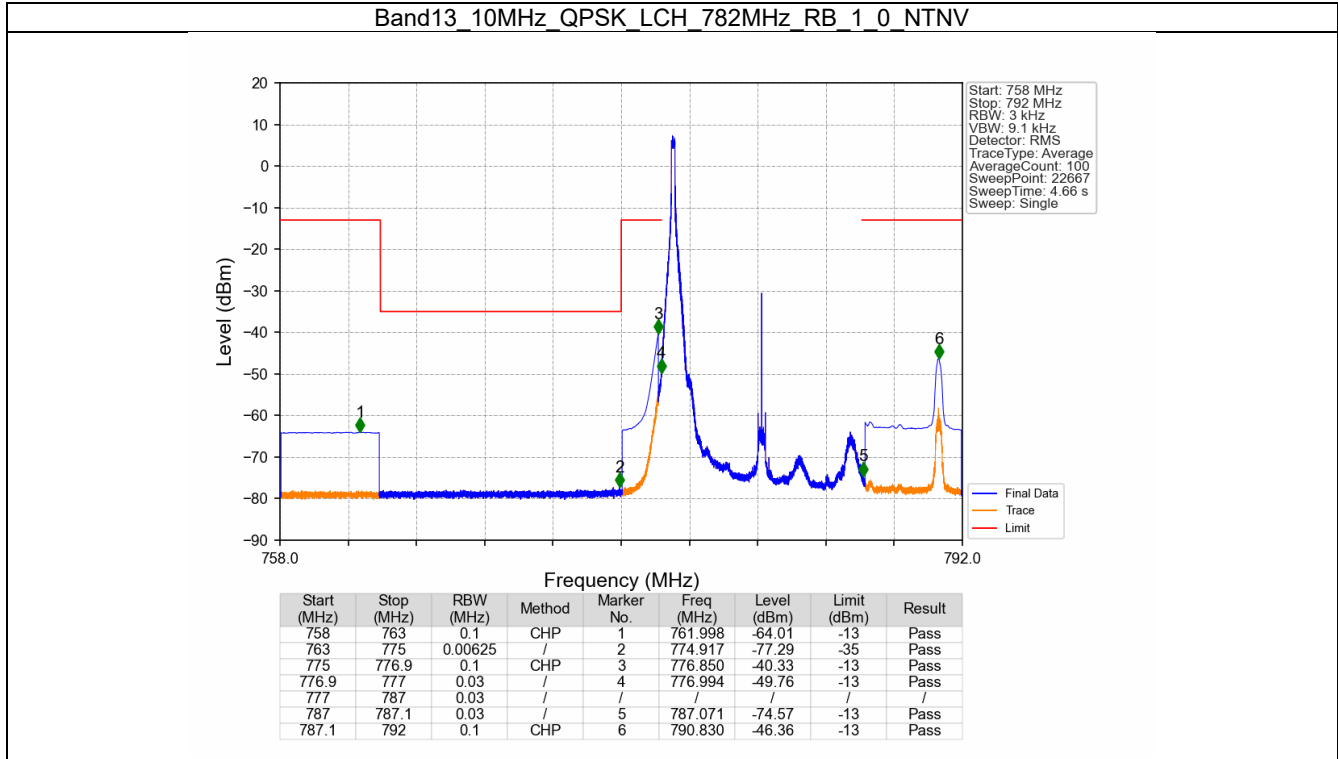


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 Wireless Laboratories

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5.2.2 Test Graph

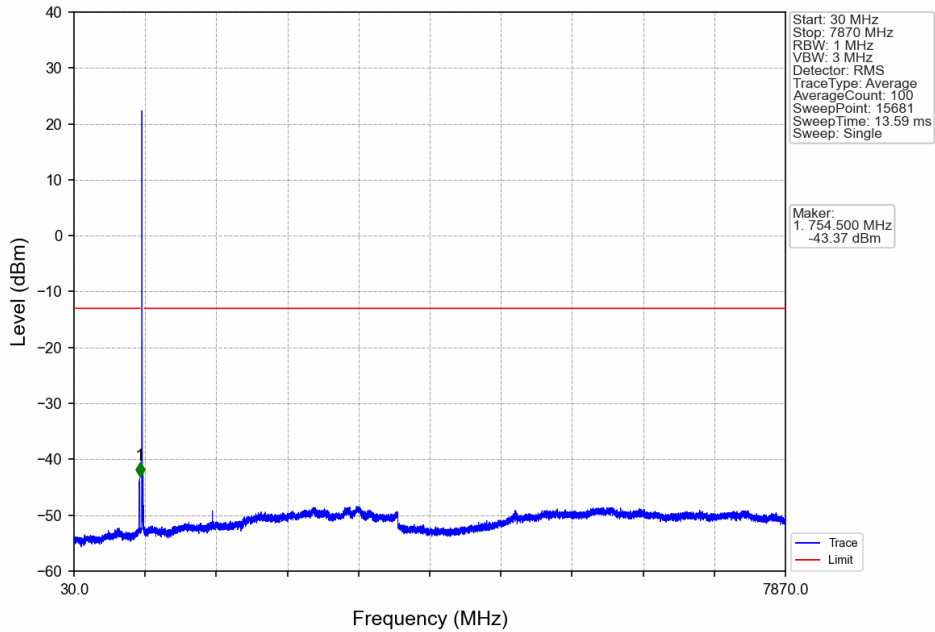


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Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



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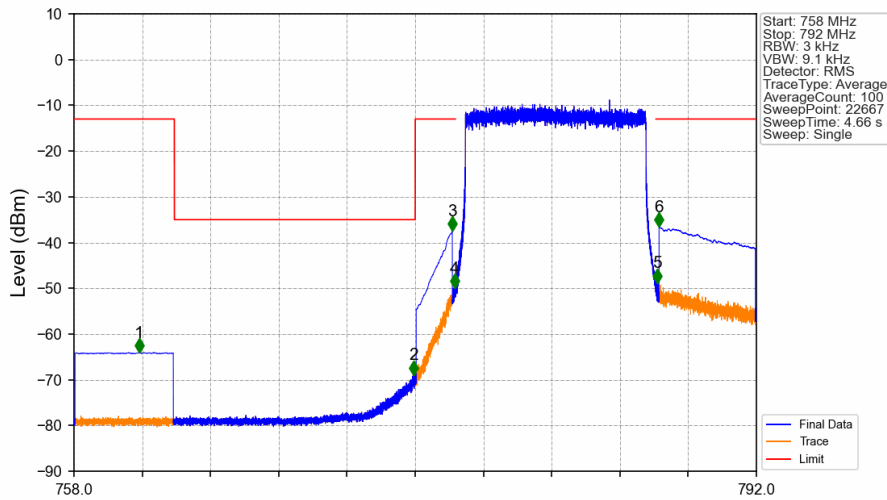
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Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.254	-64.03	-13	Pass
763	775	0.00625	/	2	774.913	-68.92	-35	Pass
775	776.9	0.1	CHP	3	776.850	-37.40	-13	Pass
776.9	777	0.03	/	4	776.971	-49.95	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.045	-48.83	-13	Pass
787.1	792	0.1	CHP	6	787.150	-36.58	-13	Pass



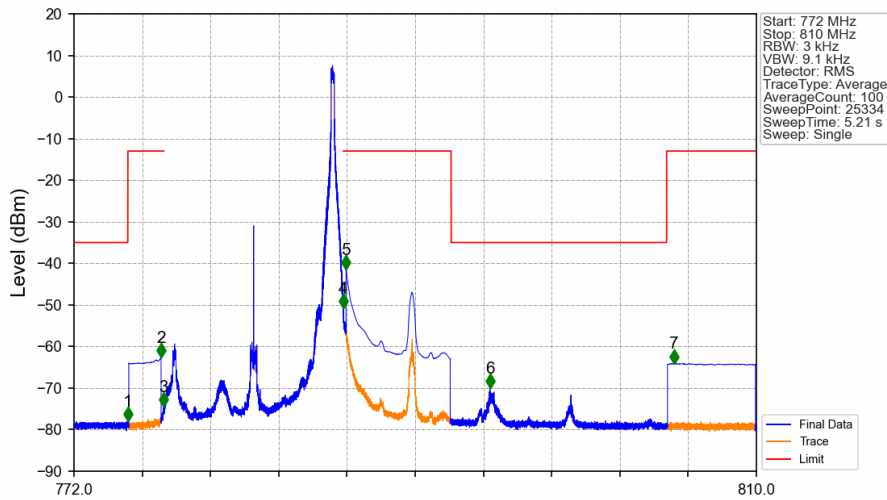
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Band13_10MHz_QPSK_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.996	-78.04	-35	Pass
775	776.9	0.1	CHP	2	776.850	-82.62	-13	Pass
776.9	777	0.03	/	3	777.000	-74.51	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-50.86	-13	Pass
787.1	793	0.1	CHP	5	787.150	-41.46	-13	Pass
793	805	0.00625	/	6	795.166	-70.05	-35	Pass
805	810	0.1	CHP	7	805.398	-64.10	-13	Pass



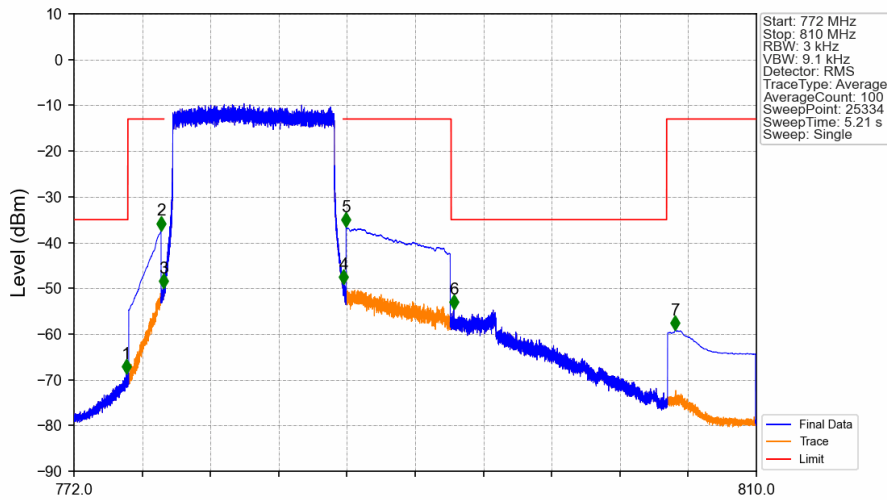
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.913	-68.74	-35	Pass
775	776.9	0.1	CHP	2	776.850	-37.37	-13	Pass
776.9	777	0.03	/	3	776.983	-49.93	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.006	-49.09	-13	Pass
787.1	793	0.1	CHP	5	787.150	-36.61	-13	Pass
793	805	0.00625	/	6	793.152	-54.56	-35	Pass
805	810	0.1	CHP	7	805.483	-59.17	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 13 BW=10M_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.4286	58.54	-48.30	25.36	-59.66	-13.00	46.66	Horizontal
2	1853.7143	45.38	-48.00	25.76	-72.12	-13.00	59.12	Horizontal
3	2466.2857	44.93	-47.33	27.13	-70.53	-13.00	57.53	Horizontal
4	3401.7143	43.33	-46.54	28.50	-69.97	-13.00	56.97	Horizontal
5	4382.8571	43.24	-45.87	30.32	-67.57	-13.00	54.57	Horizontal
6	6186.2857	43.19	-44.86	33.03	-63.90	-13.00	50.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.4286	49.23	-48.30	25.36	-68.97	-13.00	55.97	Vertical
2	2332.5714	46.57	-47.48	26.87	-69.31	-13.00	56.31	Vertical
3	3057.7143	44.30	-46.65	28.16	-69.46	-13.00	56.46	Vertical
4	4302.2857	43.52	-45.78	30.13	-67.40	-13.00	54.40	Vertical
5	4933.7143	43.40	-45.66	31.29	-66.22	-13.00	53.22	Vertical
6	6501.7143	42.05	-44.65	34.10	-63.75	-13.00	50.75	Vertical



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Member of the SGS Group (SGS SA)

Test Band = LTE Band 13 BW=5M_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.8571	56.58	-48.30	25.35	-61.62	-13.00	48.62	Horizontal
2	2332	47.67	-47.48	26.86	-68.21	-13.00	55.21	Horizontal
3	3128	43.86	-46.62	28.23	-69.79	-13.00	56.79	Horizontal
4	4538.2857	43.41	-45.67	30.66	-66.86	-13.00	53.86	Horizontal
5	5974.8571	43.22	-44.57	32.39	-64.21	-13.00	51.21	Horizontal
6	6351.4286	42.62	-44.68	33.59	-63.72	-13.00	50.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.2857	48.08	-48.30	25.35	-70.12	-13.00	57.12	Vertical
2	2606.8571	44.66	-46.94	27.39	-70.15	-13.00	57.15	Vertical
3	3794.2857	43.88	-46.16	29.07	-68.47	-13.00	55.47	Vertical
4	4578.2857	43.60	-45.75	30.73	-66.68	-13.00	53.68	Vertical
5	6333.1429	42.52	-44.65	33.53	-63.86	-13.00	50.86	Vertical
6	7699.4286	41.30	-43.35	36.68	-60.63	-13.00	47.63	Vertical



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Test Band = LTE Band 13 BW=5M_ TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1560	58.33	-48.30	25.36	-59.87	-40.00	19.87	Horizontal
2	2339.4286	51.18	-47.48	26.88	-64.68	-13.00	51.68	Horizontal
3	3046.8571	44.47	-46.63	28.15	-69.27	-13.00	56.27	Horizontal
4	3926.2857	44.14	-46.22	29.28	-68.06	-13.00	55.06	Horizontal
5	4889.1429	43.15	-45.59	31.22	-66.47	-13.00	53.47	Horizontal
6	6386.8571	42.25	-44.72	33.72	-64.02	-13.00	51.02	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1560	51.02	-48.30	25.36	-67.18	-40.00	27.18	Vertical
2	2339.4286	48.37	-47.48	26.88	-67.49	-13.00	54.49	Vertical
3	2933.7143	43.98	-46.55	27.98	-69.85	-13.00	56.85	Vertical
4	3596.5714	44.20	-46.35	28.75	-68.65	-13.00	55.65	Vertical
5	4575.4286	43.76	-45.74	30.72	-66.52	-13.00	53.52	Vertical
6	5805.7143	42.93	-44.68	32.36	-64.65	-13.00	51.65	Vertical



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Test Band = LTE Band 13 BW=5M_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5714	61.54	-48.29	25.36	-56.65	-40.00	16.65	Horizontal
2	2346.8571	48.42	-47.48	26.89	-67.42	-13.00	54.42	Horizontal
3	3053.1429	43.99	-46.64	28.15	-69.76	-13.00	56.76	Horizontal
4	3977.1429	43.88	-46.21	29.36	-68.22	-13.00	55.22	Horizontal
5	5177.7143	43.26	-45.08	31.72	-65.36	-13.00	52.36	Horizontal
6	6396.5714	42.81	-44.74	33.75	-63.44	-13.00	50.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5714	47.99	-48.29	25.36	-70.20	-40.00	30.20	Vertical
2	1913.7143	46.73	-48.03	25.94	-70.62	-13.00	57.62	Vertical
3	2346.8571	46.98	-47.48	26.89	-68.86	-13.00	55.86	Vertical
4	3130.2857	44.27	-46.61	28.23	-69.37	-13.00	56.37	Vertical
5	4011.4286	43.46	-46.17	29.43	-68.54	-13.00	55.54	Vertical
6	6314.2857	42.58	-44.63	33.47	-63.84	-13.00	50.84	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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