

Appendix B.11

LTE Band 13



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B13_5MHz_ERP ANT0

1.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNv										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	779.5	1	0	23.93	4.8	16.98	<=34.77	Pass		
			13	23.94	4.8	16.99	<=34.77	Pass		
			24	23.82	4.8	16.87	<=34.77	Pass		
		12	0	22.82	4.8	15.87	<=34.77	Pass		
			6	22.86	4.8	15.91	<=34.77	Pass		
			13	22.85	4.8	15.9	<=34.77	Pass		
		25	0	22.84	4.8	15.89	<=34.77	Pass		
		782	1	0	23.89	4.8	16.94	<=34.77	Pass	
				13	23.91	4.8	16.96	<=34.77	Pass	
	24			23.79	4.8	16.84	<=34.77	Pass		
	12		0	22.78	4.8	15.83	<=34.77	Pass		
			6	22.82	4.8	15.87	<=34.77	Pass		
			13	22.79	4.8	15.84	<=34.77	Pass		
	25		0	22.78	4.8	15.83	<=34.77	Pass		
	784.5		1	0	23.86	4.8	16.91	<=34.77	Pass	
				13	23.91	4.8	16.96	<=34.77	Pass	
		24		23.75	4.8	16.8	<=34.77	Pass		
		12	0	22.75	4.8	15.8	<=34.77	Pass		
			6	22.77	4.8	15.82	<=34.77	Pass		
			13	22.76	4.8	15.81	<=34.77	Pass		
		25	0	22.71	4.8	15.76	<=34.77	Pass		
		16QAM	779.5	1	0	22.96	4.8	16.01	<=34.77	Pass
					13	22.93	4.8	15.98	<=34.77	Pass
	24				22.78	4.8	15.83	<=34.77	Pass	
12	0			21.89	4.8	14.94	<=34.77	Pass		
	6			21.8	4.8	14.85	<=34.77	Pass		
	13			21.75	4.8	14.8	<=34.77	Pass		
25	0			21.88	4.8	14.93	<=34.77	Pass		
782	1			0	23.02	4.8	16.07	<=34.77	Pass	
				13	23.07	4.8	16.12	<=34.77	Pass	
			24	22.94	4.8	15.99	<=34.77	Pass		
	12		0	21.8	4.8	14.85	<=34.77	Pass		
			6	21.87	4.8	14.92	<=34.77	Pass		
			13	21.82	4.8	14.87	<=34.77	Pass		
	25		0	21.77	4.8	14.82	<=34.77	Pass		
	784.5		1	0	22.99	4.8	16.04	<=34.77	Pass	
				13	23.05	4.8	16.1	<=34.77	Pass	
24				22.88	4.8	15.93	<=34.77	Pass		
12			0	21.74	4.8	14.79	<=34.77	Pass		
			6	21.88	4.8	14.93	<=34.77	Pass		



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			13	21.77	4.8	14.82	<=34.77	Pass
		25	0	21.73	4.8	14.78	<=34.77	Pass
64QAM	779.5	1	0	21.97	4.8	15.02	<=34.77	Pass
			13	22.06	4.8	15.11	<=34.77	Pass
			24	21.89	4.8	14.94	<=34.77	Pass
		12	0	20.82	4.8	13.87	<=34.77	Pass
			6	20.89	4.8	13.94	<=34.77	Pass
			13	20.8	4.8	13.85	<=34.77	Pass
	25	0	20.83	4.8	13.88	<=34.77	Pass	
	782	1	0	22.03	4.8	15.08	<=34.77	Pass
			13	22.1	4.8	15.15	<=34.77	Pass
			24	21.96	4.8	15.01	<=34.77	Pass
		12	0	20.79	4.8	13.84	<=34.77	Pass
			6	20.81	4.8	13.86	<=34.77	Pass
			13	20.79	4.8	13.84	<=34.77	Pass
	25	0	20.76	4.8	13.81	<=34.77	Pass	
	784.5	1	0	21.93	4.8	14.98	<=34.77	Pass
			13	21.98	4.8	15.03	<=34.77	Pass
			24	21.87	4.8	14.92	<=34.77	Pass
		12	0	20.74	4.8	13.79	<=34.77	Pass
			6	20.79	4.8	13.84	<=34.77	Pass
			13	20.78	4.8	13.83	<=34.77	Pass
25	0	20.75	4.8	13.8	<=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	23.93	4.8	16.98	<=34.77	Pass		
			25	23.89	4.8	16.94	<=34.77	Pass		
			49	23.69	4.8	16.74	<=34.77	Pass		
		25	0	22.78	4.8	15.83	<=34.77	Pass		
			13	22.75	4.8	15.8	<=34.77	Pass		
			25	22.76	4.8	15.81	<=34.77	Pass		
		50	0	22.72	4.8	15.77	<=34.77	Pass		
		16QAM	782	1	0	23	4.8	16.05	<=34.77	Pass
					25	23.01	4.8	16.06	<=34.77	Pass
49	22.79				4.8	15.84	<=34.77	Pass		
25	0			21.8	4.8	14.85	<=34.77	Pass		
	13			21.77	4.8	14.82	<=34.77	Pass		
	25			21.75	4.8	14.8	<=34.77	Pass		
50	0			21.75	4.8	14.8	<=34.77	Pass		
64QAM	782			1	0	21.99	4.8	15.04	<=34.77	Pass
					25	21.95	4.8	15	<=34.77	Pass
		49	21.77		4.8	14.82	<=34.77	Pass		
		25	0	20.79	4.8	13.84	<=34.77	Pass		
			13	20.77	4.8	13.82	<=34.77	Pass		
			25	20.78	4.8	13.83	<=34.77	Pass		
		50	0	20.79	4.8	13.84	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 B13_5MHz

2.1.1 Test Result

Band: 13 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	779.5	25	0	20	3.5	3.851	0.0049	/	Pass	
					3.91	4.769	0.0061	/	Pass	
					4.35	2.850	0.0037	/	Pass	
				-30	3.91	3.492	0.0045	/	Pass	
					-20	3.91	3.013	0.0039	/	Pass
						-10	3.91	2.815	0.0036	/
				0	3.91	3.518	0.0045	/	Pass	
					10	3.91	2.941	0.0038	/	Pass
					30	3.91	2.063	0.0026	/	Pass
					40	3.91	2.363	0.0030	/	Pass
	50	3.91	3.230		0.0041	/	Pass			
	782	25	0		20	3.5	2.613	0.0033	/	Pass
						3.91	3.212	0.0041	/	Pass
				4.35		2.835	0.0036	/	Pass	
				-30	3.91	2.685	0.0034	/	Pass	
					-20	3.91	1.574	0.0020	/	Pass
						-10	3.91	1.595	0.0020	/
				0	3.91	1.324	0.0017	/	Pass	
					10	3.91	0.419	0.0005	/	Pass
					30	3.91	1.473	0.0019	/	Pass
					40	3.91	1.224	0.0016	/	Pass
	50	3.91	0.709		0.0009	/	Pass			
	784.5	25	0		20	3.5	3.157	0.0040	/	Pass
						3.91	3.141	0.0040	/	Pass
				4.35		3.133	0.0040	/	Pass	
				-30	3.91	3.659	0.0047	/	Pass	
					-20	3.91	3.496	0.0045	/	Pass
						-10	3.91	1.816	0.0023	/
				0	3.91	2.170	0.0028	/	Pass	
					10	3.91	2.206	0.0028	/	Pass
30					3.91	2.443	0.0031	/	Pass	
40					3.91	1.132	0.0014	/	Pass	
50	3.91	-0.305	-0.0004		/	Pass				
16QAM	779.5	25	0		20	3.5	3.395	0.0044	/	Pass
						3.91	2.872	0.0037	/	Pass
				4.35		3.326	0.0043	/	Pass	
				-30	3.91	-0.276	-0.0004	/	Pass	
					-20	3.91	1.268	0.0016	/	Pass
						-10	3.91	0.986	0.0013	/
0	3.91	0.957	0.0012	/	Pass					



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64QAM	782	25	0	10	3.91	1.059	0.0014	/	Pass			
				30	3.91	1.523	0.0020	/	Pass			
				40	3.91	2.373	0.0030	/	Pass			
				50	3.91	1.075	0.0014	/	Pass			
				20	3.5	0.326	0.0004	/	Pass			
					3.91	0.918	0.0012	/	Pass			
					4.35	0.796	0.0010	/	Pass			
				-30	3.91	1.735	0.0022	/	Pass			
				-20	3.91	1.192	0.0015	/	Pass			
				-10	3.91	1.850	0.0024	/	Pass			
				0	3.91	1.214	0.0016	/	Pass			
				10	3.91	2.096	0.0027	/	Pass			
				30	3.91	1.565	0.0020	/	Pass			
				40	3.91	1.427	0.0018	/	Pass			
	50	3.91	1.325	0.0017	/	Pass						
	784.5	25	0	20	3.5	-0.445	-0.0006	/	Pass			
					3.91	1.075	0.0014	/	Pass			
					4.35	0.292	0.0004	/	Pass			
				-30	3.91	1.363	0.0017	/	Pass			
				-20	3.91	0.909	0.0012	/	Pass			
				-10	3.91	1.319	0.0017	/	Pass			
				0	3.91	1.883	0.0024	/	Pass			
				10	3.91	1.173	0.0015	/	Pass			
				30	3.91	1.737	0.0022	/	Pass			
				40	3.91	2.747	0.0035	/	Pass			
				50	3.91	2.575	0.0033	/	Pass			
				779.5	25	0	20	3.5	-0.223	-0.0003	/	Pass
								3.91	-0.566	-0.0007	/	Pass
4.35								1.476	0.0019	/	Pass	
-30	3.91	2.265	0.0029				/	Pass				
-20	3.91	1.620	0.0021				/	Pass				
-10	3.91	0.461	0.0006				/	Pass				
0	3.91	0.724	0.0009				/	Pass				
10	3.91	1.998	0.0026				/	Pass				
30	3.91	0.980	0.0013				/	Pass				
40	3.91	1.477	0.0019				/	Pass				
50	3.91	-1.100	-0.0014				/	Pass				
782	25	0	20				3.5	0.468	0.0006	/	Pass	
							3.91	0.335	0.0004	/	Pass	
							4.35	0.323	0.0004	/	Pass	
			-30	3.91	-0.100	-0.0001	/	Pass				
			-20	3.91	0.537	0.0007	/	Pass				
			-10	3.91	0.544	0.0007	/	Pass				
			0	3.91	0.259	0.0003	/	Pass				
			10	3.91	0.405	0.0005	/	Pass				
			30	3.91	1.947	0.0025	/	Pass				
			40	3.91	1.938	0.0025	/	Pass				
			50	3.91	1.464	0.0019	/	Pass				
			784.5	25	0	20	3.5	2.374	0.0030	/	Pass	
							3.91	-0.119	-0.0002	/	Pass	



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				4.35	-0.003	0.0000	/	Pass
				-30	3.91	0.646	0.0008	Pass
				-20	3.91	-0.124	-0.0002	Pass
				-10	3.91	-0.449	-0.0006	Pass
				0	3.91	0.864	0.0011	Pass
				10	3.91	1.994	0.0025	Pass
				30	3.91	1.811	0.0023	Pass
				40	3.91	2.866	0.0037	Pass
				50	3.91	2.527	0.0032	Pass



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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	3.5	2.223	0.0028	/	Pass	
					3.91	1.270	0.0016	/	Pass	
					4.35	1.423	0.0018	/	Pass	
				-30	3.91	0.981	0.0013	/	Pass	
					-20	3.91	0.668	0.0009	/	Pass
					-10	3.91	2.107	0.0027	/	Pass
					0	3.91	2.545	0.0033	/	Pass
					10	3.91	2.263	0.0029	/	Pass
					30	3.91	0.782	0.0010	/	Pass
					40	3.91	1.912	0.0024	/	Pass
50	3.91	0.382	0.0005	/	Pass					
16QAM	782	50	0	20	3.5	1.073	0.0014	/	Pass	
					3.91	1.927	0.0025	/	Pass	
					4.35	2.673	0.0034	/	Pass	
				-30	3.91	0.504	0.0006	/	Pass	
					-20	3.91	0.274	0.0004	/	Pass
					-10	3.91	2.277	0.0029	/	Pass
					0	3.91	0.937	0.0012	/	Pass
					10	3.91	1.774	0.0023	/	Pass
					30	3.91	0.832	0.0011	/	Pass
					40	3.91	1.357	0.0017	/	Pass
50	3.91	0.985	0.0013	/	Pass					
64QAM	782	50	0	20	3.5	0.519	0.0007	/	Pass	
					3.91	1.135	0.0015	/	Pass	
					4.35	0.669	0.0009	/	Pass	
				-30	3.91	1.872	0.0024	/	Pass	
					-20	3.91	0.915	0.0012	/	Pass
					-10	3.91	-0.113	-0.0001	/	Pass
					0	3.91	-0.145	-0.0002	/	Pass
					10	3.91	-0.189	-0.0002	/	Pass
					30	3.91	0.088	0.0001	/	Pass
					40	3.91	0.936	0.0012	/	Pass
50	3.91	0.286	0.0004	/	Pass					



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3. 99% & 26dB Bandwidth

3.1 Band13_OBW

3.1.1 Test Result

Band: 13 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.556	/	Pass
		782	25	0	4.575	/	Pass
		784.5	25	0	4.573	/	Pass
	16QAM	779.5	25	0	4.584	/	Pass
		782	25	0	4.582	/	Pass
		784.5	25	0	4.563	/	Pass
	64QAM	779.5	25	0	4.587	/	Pass
		782	25	0	4.581	/	Pass
		784.5	25	0	4.559	/	Pass
10	QPSK	782	50	0	9.070	/	Pass
	16QAM	782	50	0	9.074	/	Pass
	64QAM	782	50	0	9.050	/	Pass

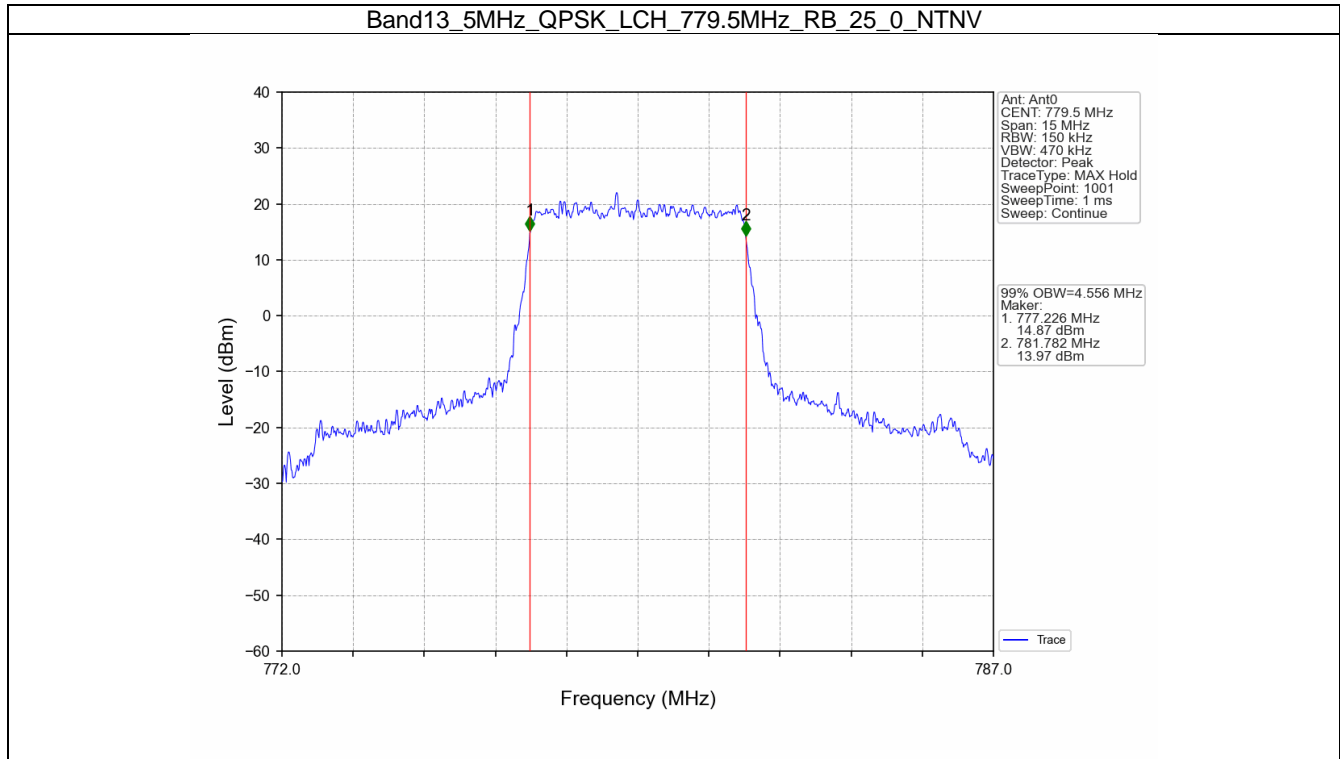


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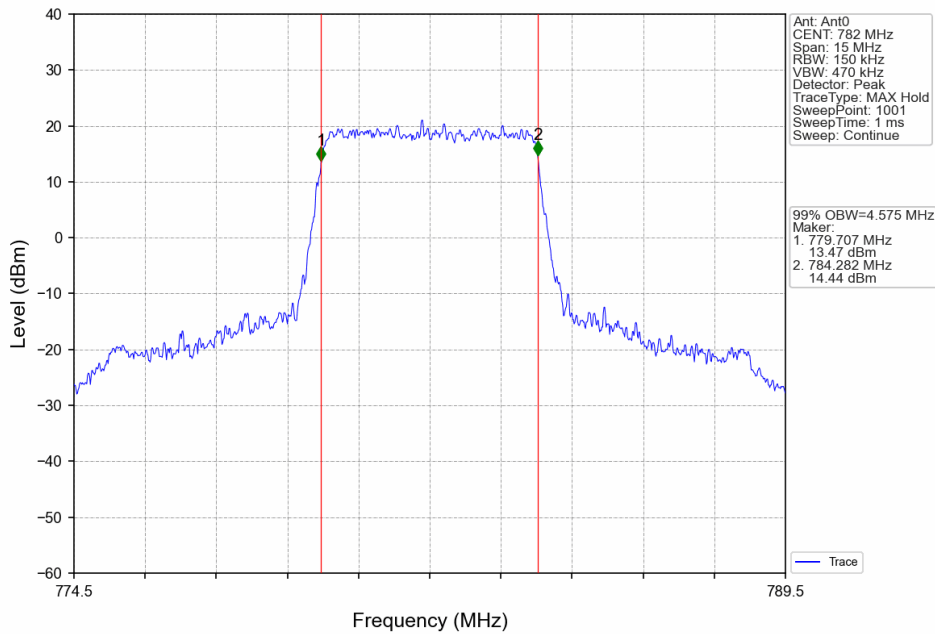
3.1.2 Test Graph



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Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV

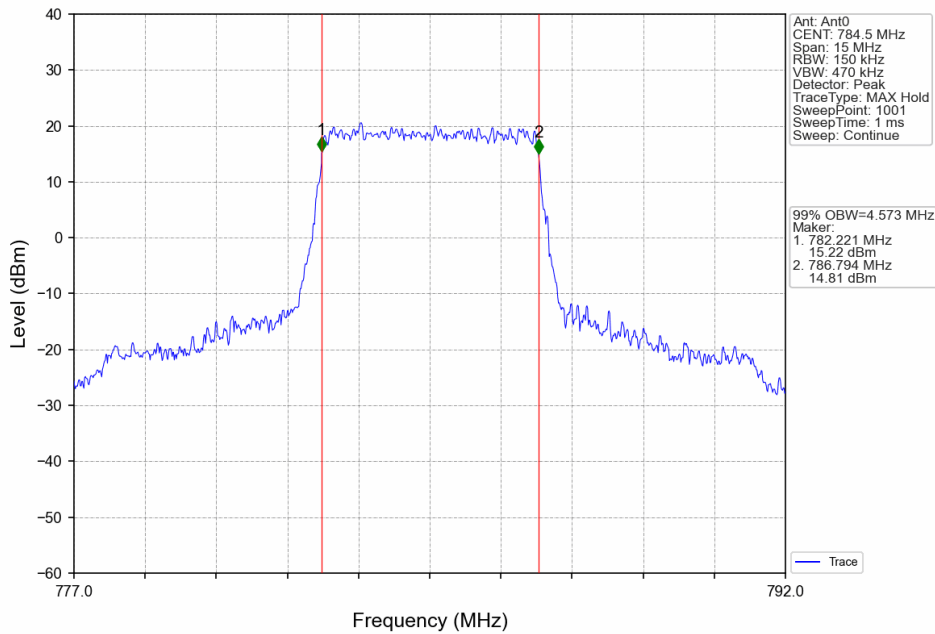


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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV

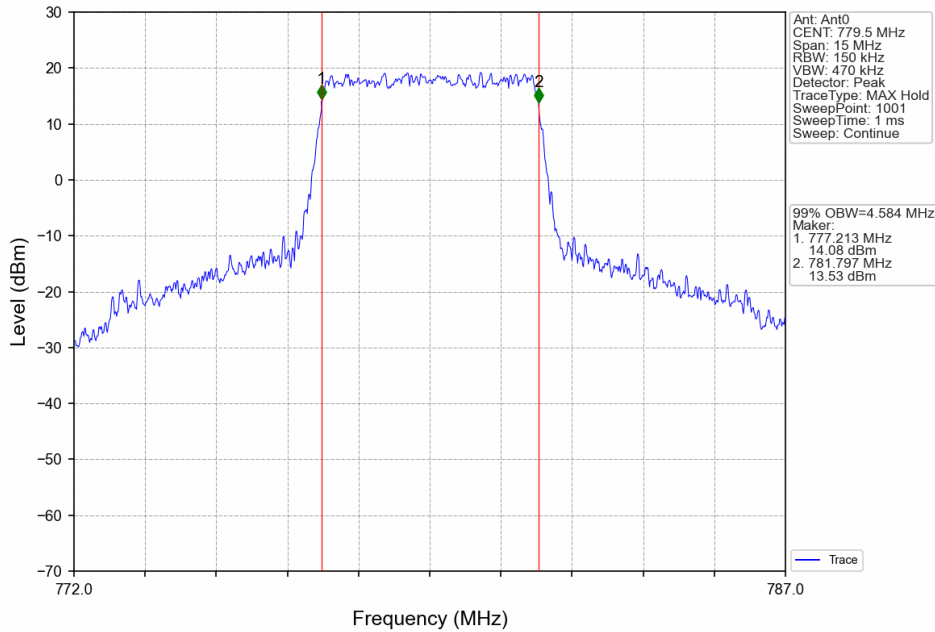


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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

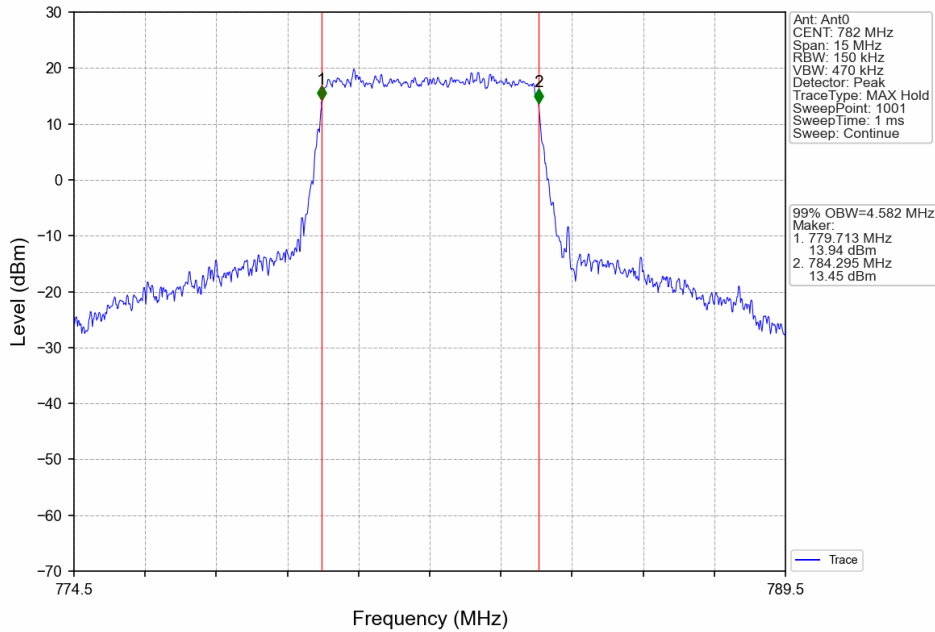


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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV

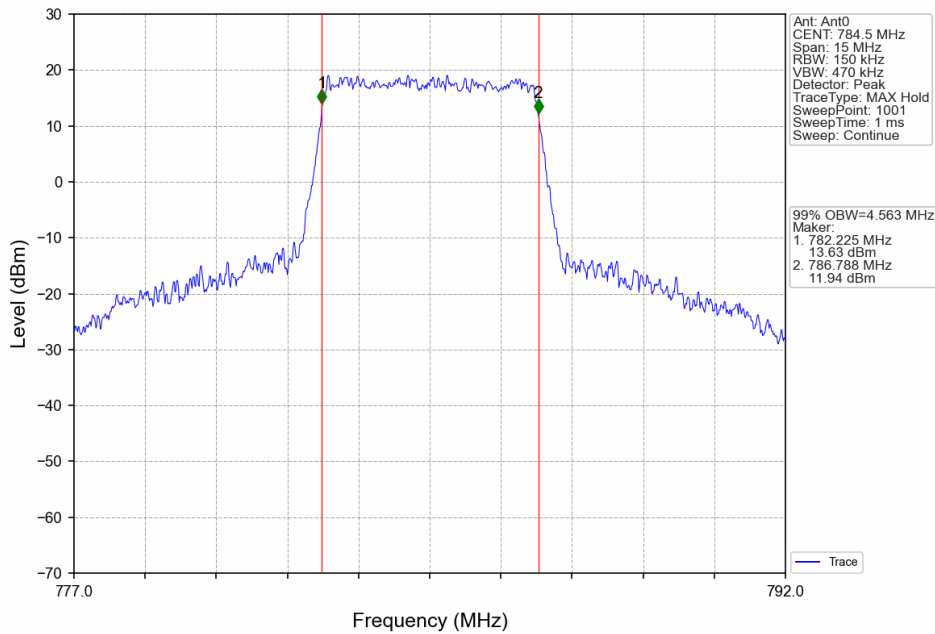


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Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV

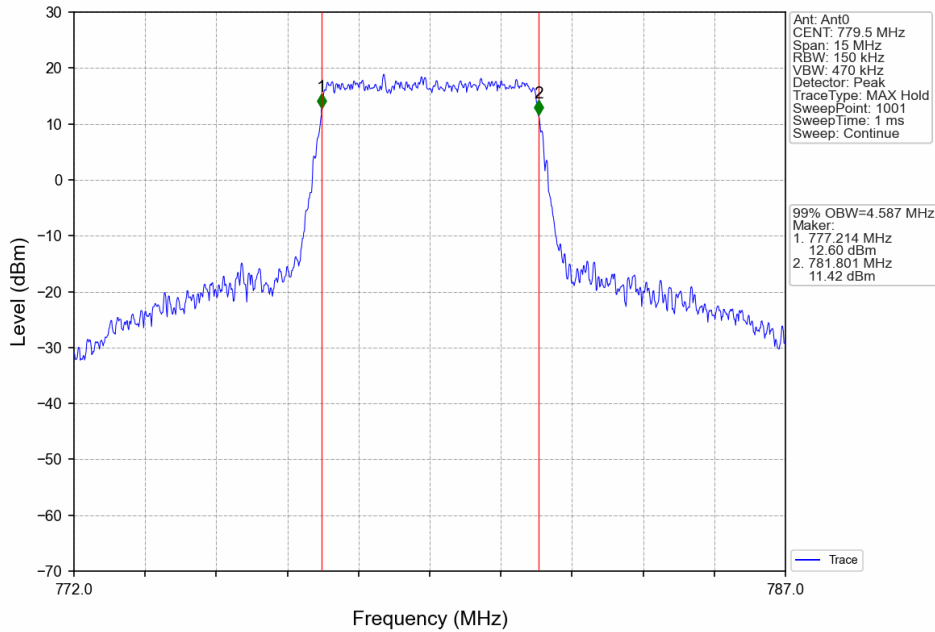


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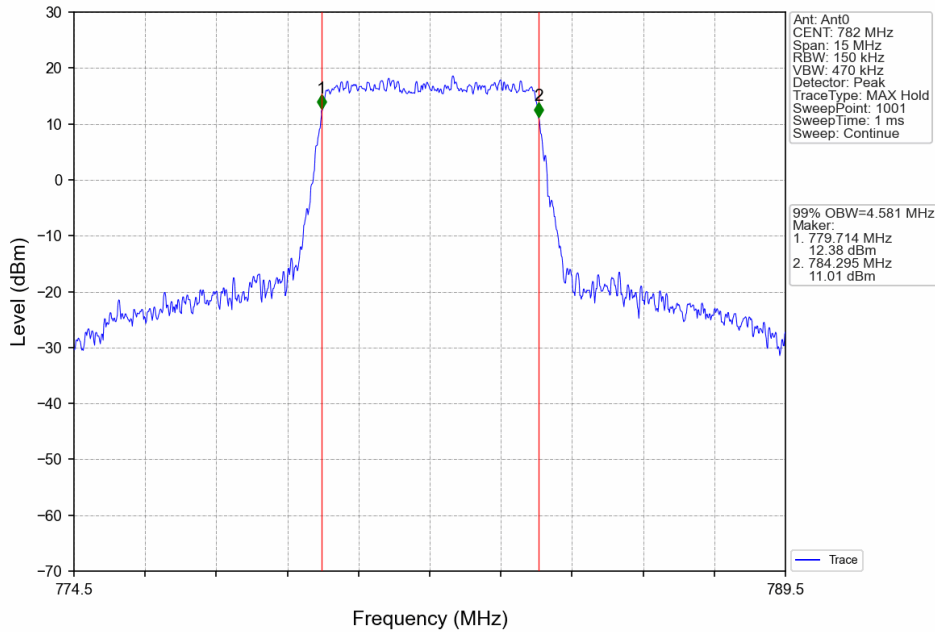


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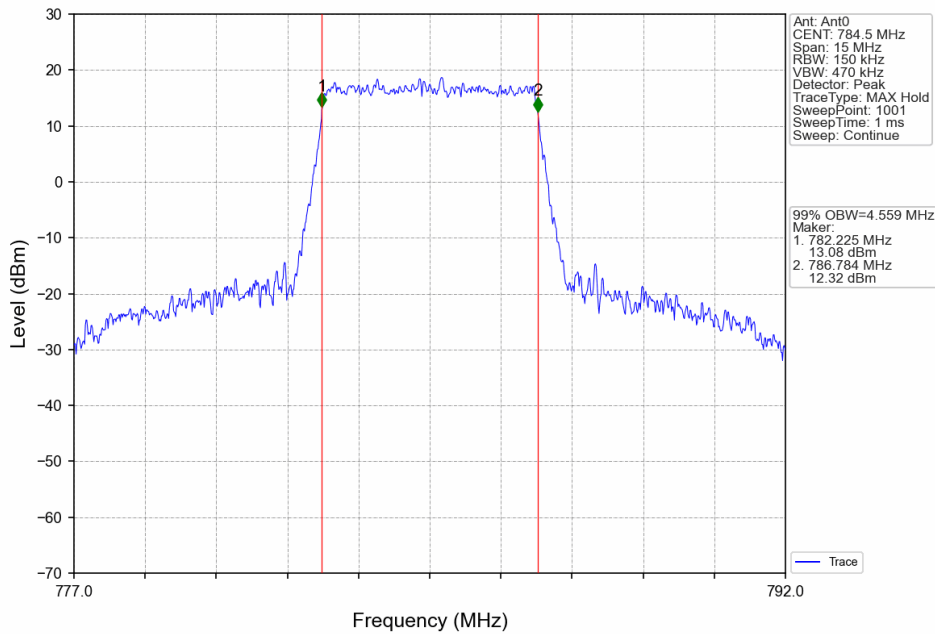


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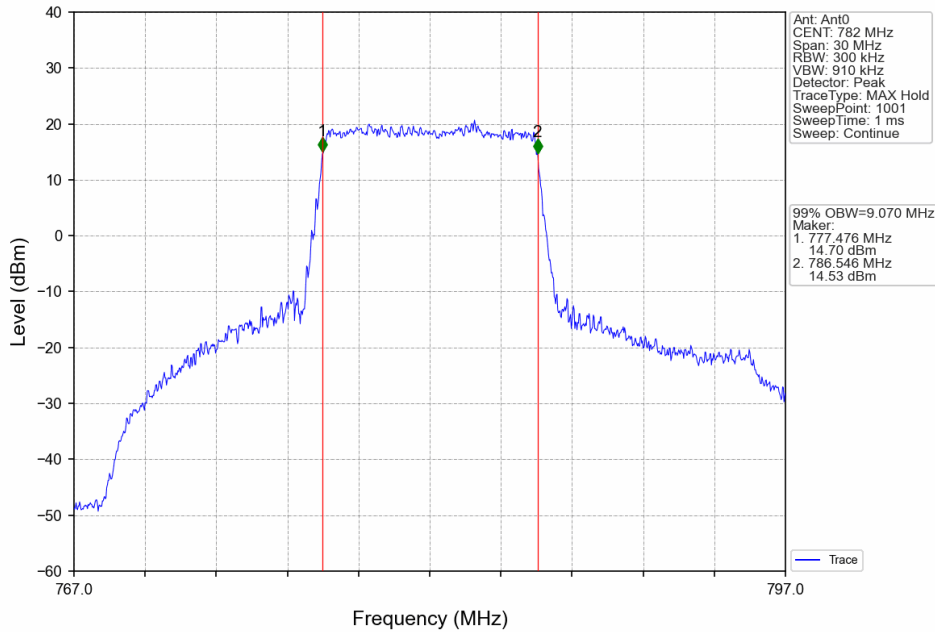


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Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV

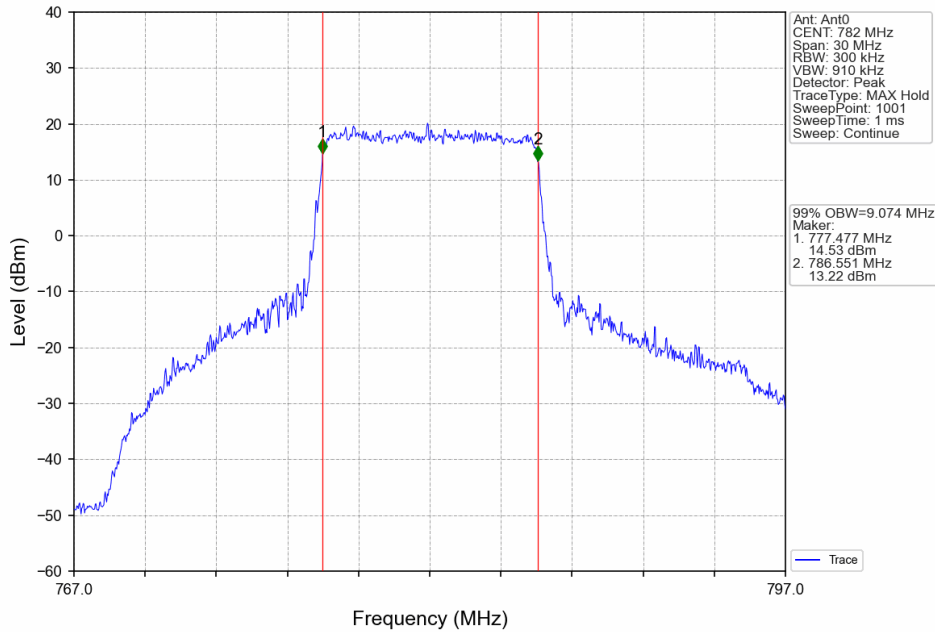


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Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV

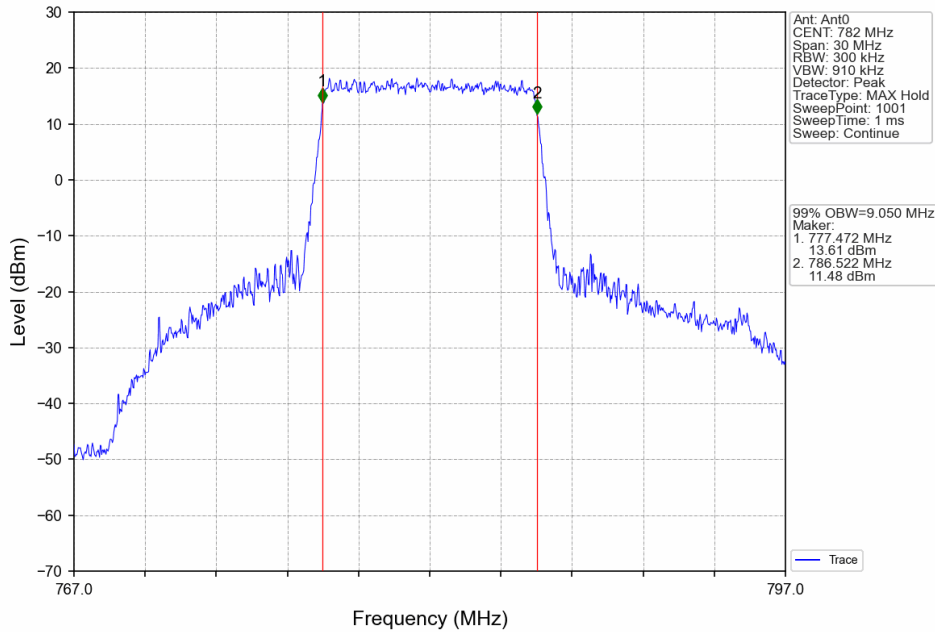


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3.2 Band13_XDB

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	5.241	/	Pass
		782	25	0	5.184	/	Pass
		784.5	25	0	5.239	/	Pass
	16QAM	779.5	25	0	5.268	/	Pass
		782	25	0	5.238	/	Pass
		784.5	25	0	5.248	/	Pass
	64QAM	779.5	25	0	5.245	/	Pass
		782	25	0	5.280	/	Pass
		784.5	25	0	5.261	/	Pass
10	QPSK	782	50	0	10.169	/	Pass
	16QAM	782	50	0	10.180	/	Pass
	64QAM	782	50	0	10.164	/	Pass

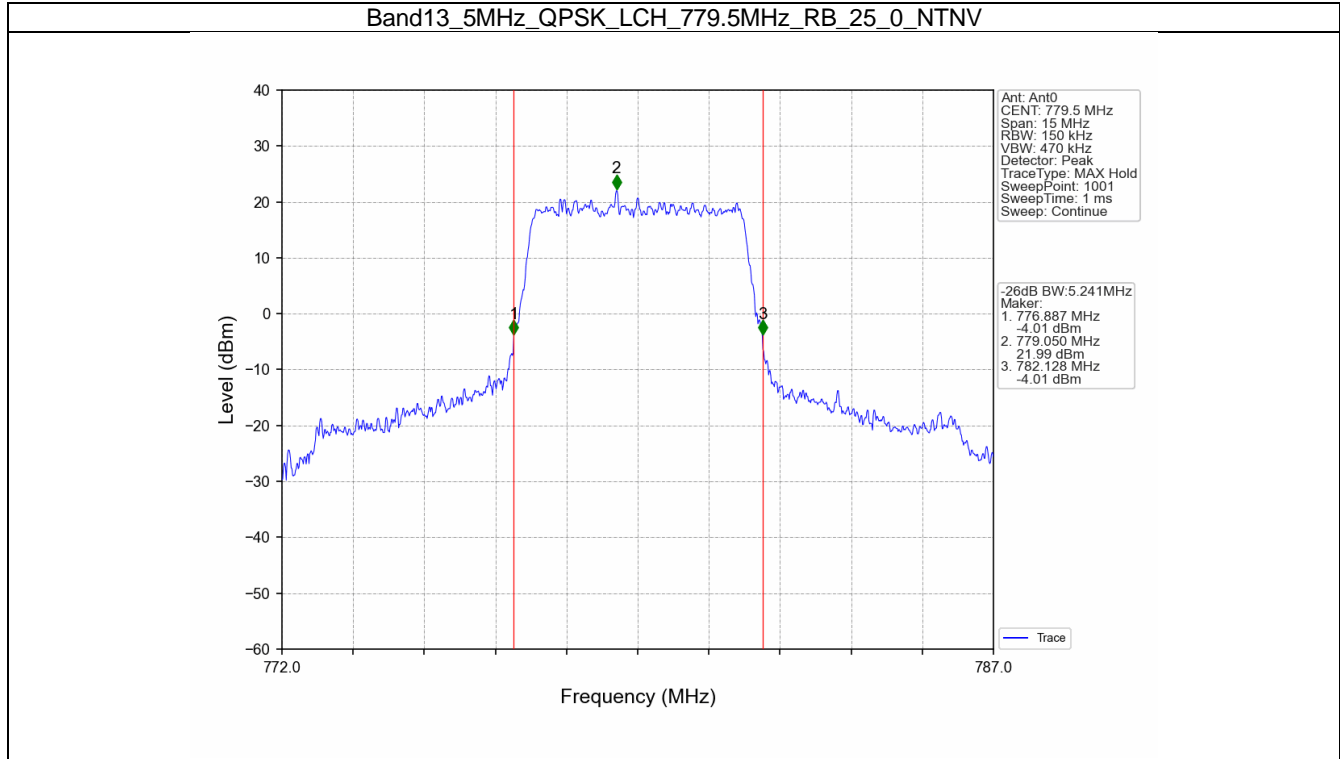


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3.2.2 Test Graph

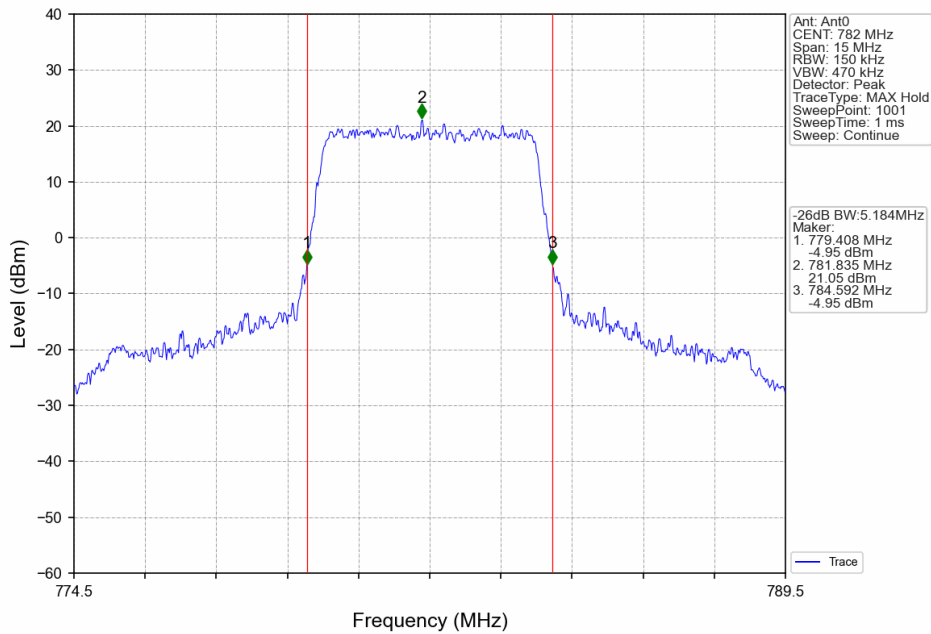


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Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV

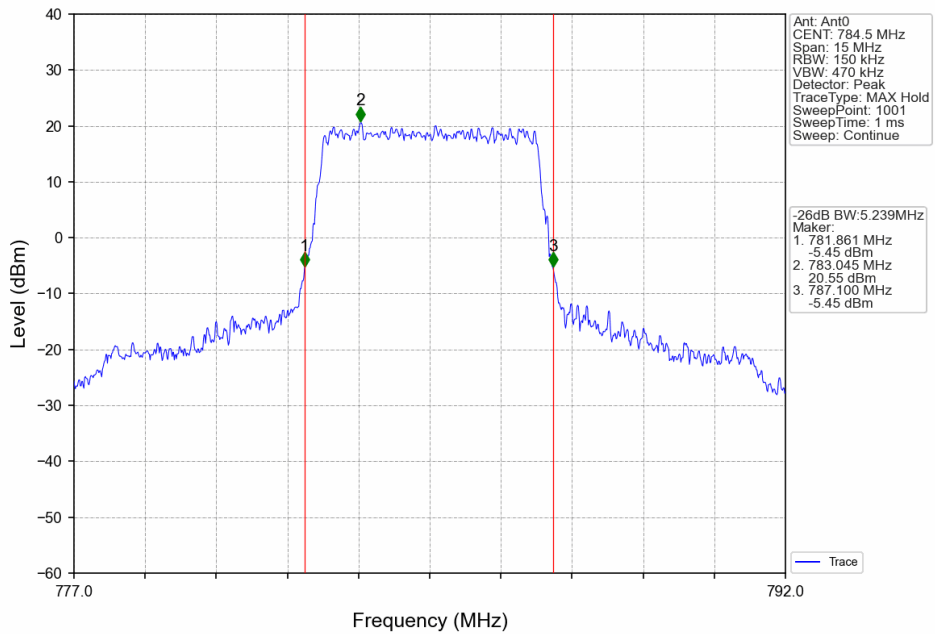


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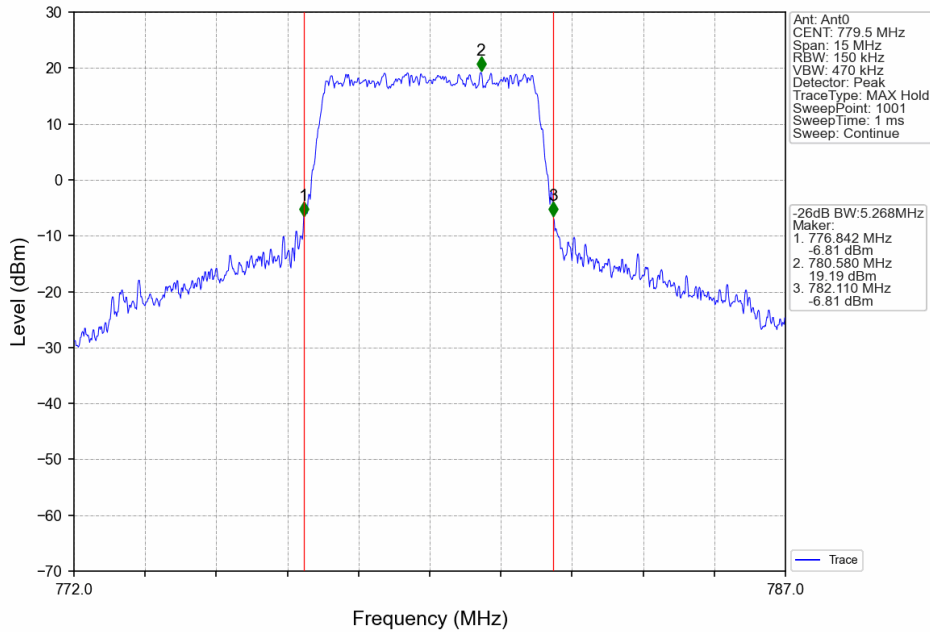


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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

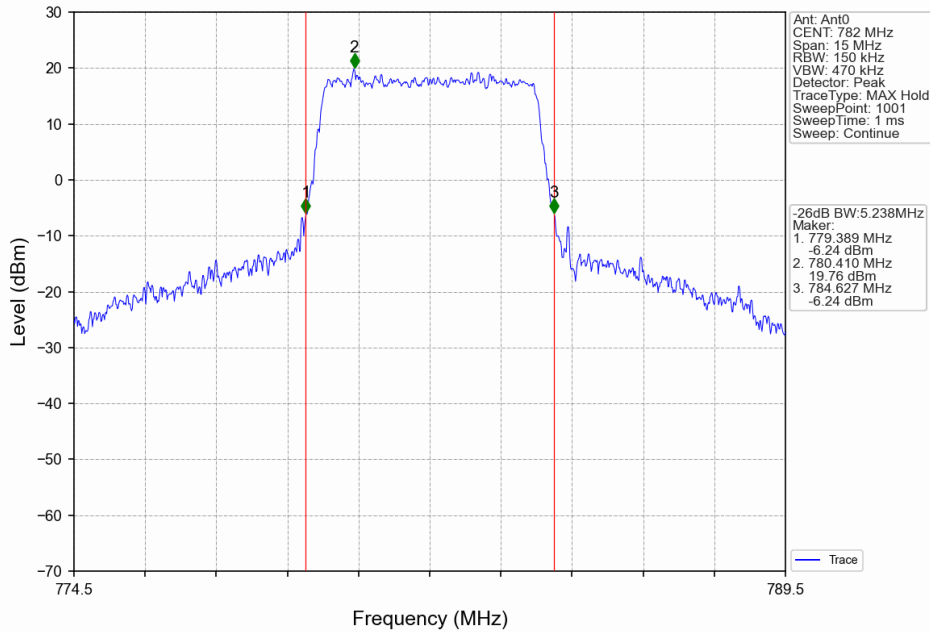


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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV

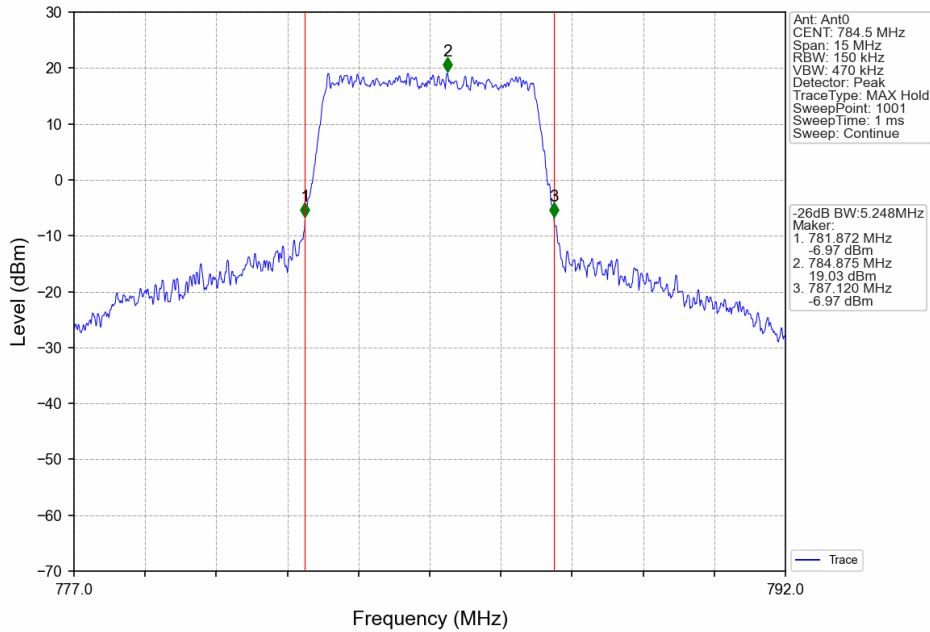


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Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV

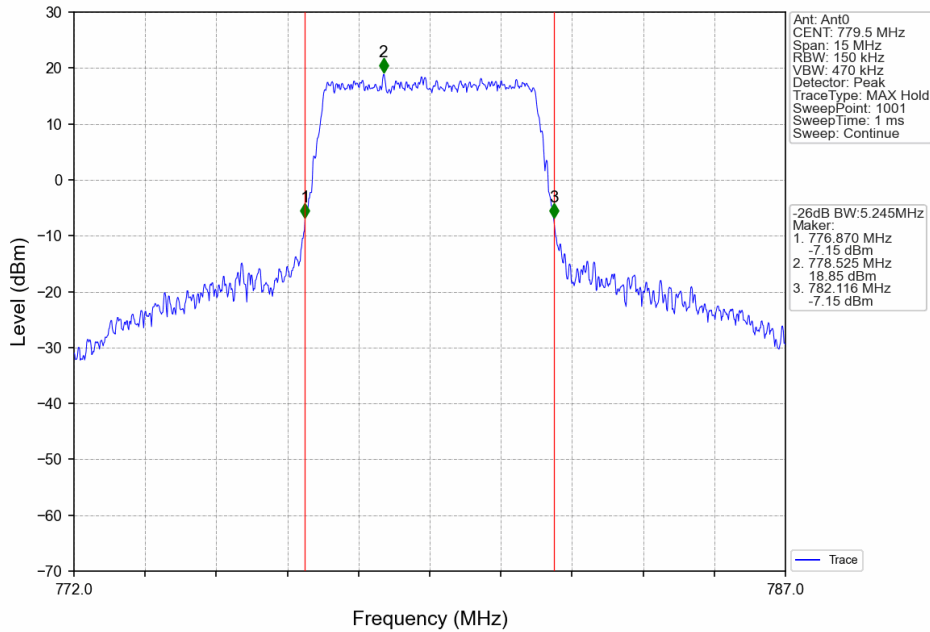


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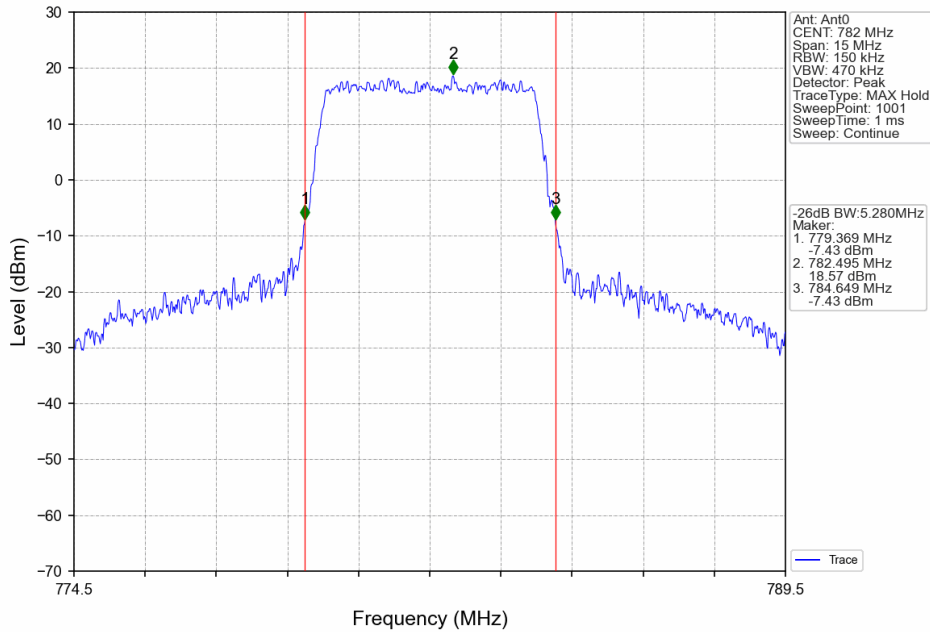


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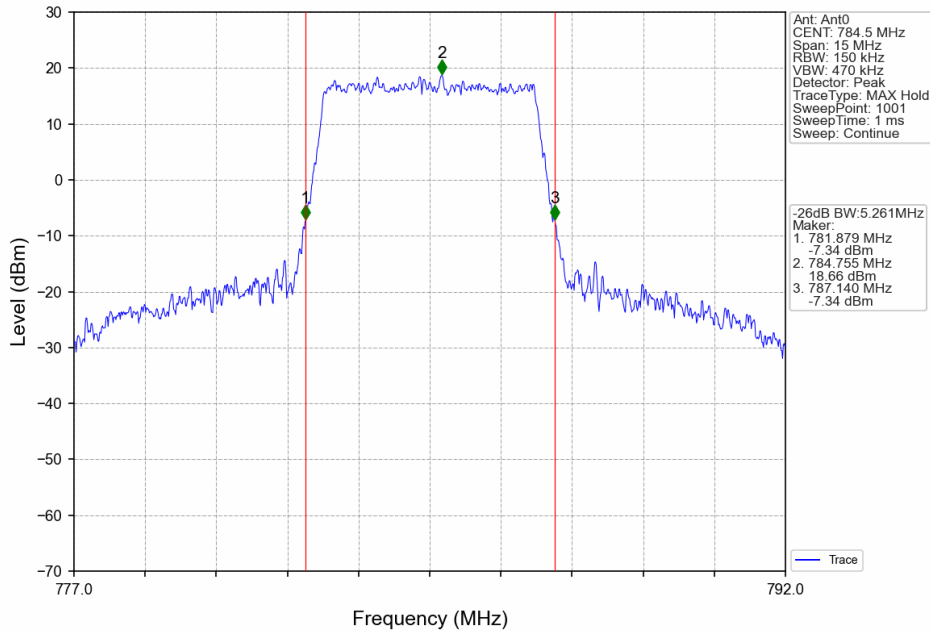


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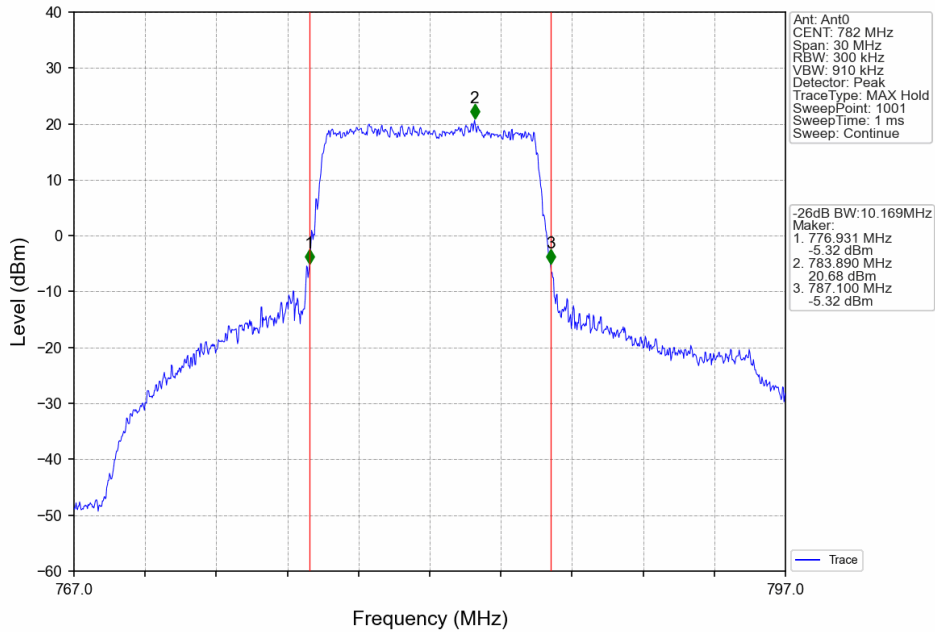


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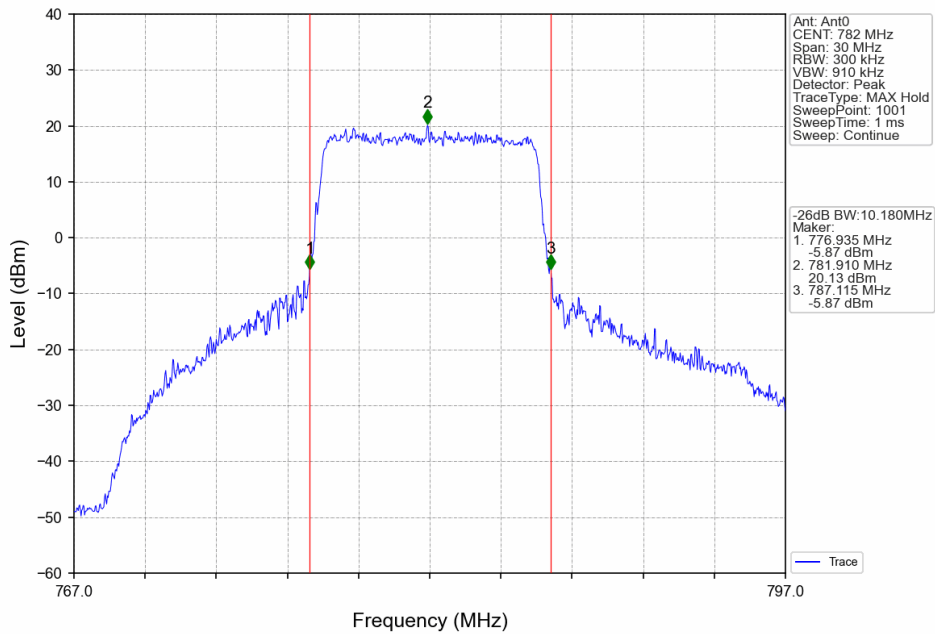


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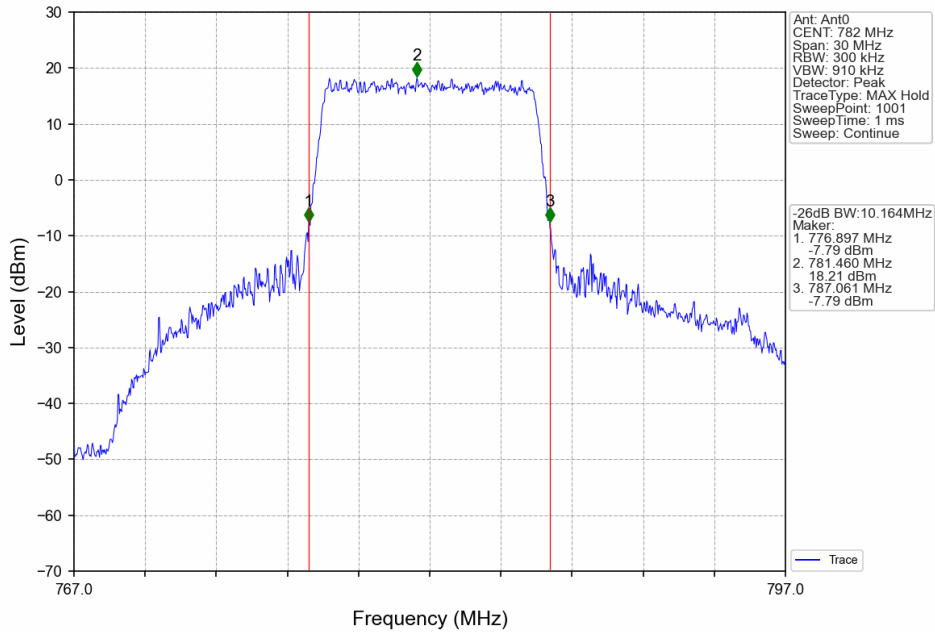


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Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



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4. Peak-Average Ratio

4.1 B13_5MHz

4.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	4.87	<=13	Pass
	782	25	0	4.93	<=13	Pass
	784.5	25	0	4.93	<=13	Pass
16QAM	779.5	25	0	5.69	<=13	Pass
	782	25	0	5.76	<=13	Pass
	784.5	25	0	5.77	<=13	Pass
64QAM	779.5	25	0	6.24	<=13	Pass
	782	25	0	6.28	<=13	Pass
	784.5	25	0	6.28	<=13	Pass

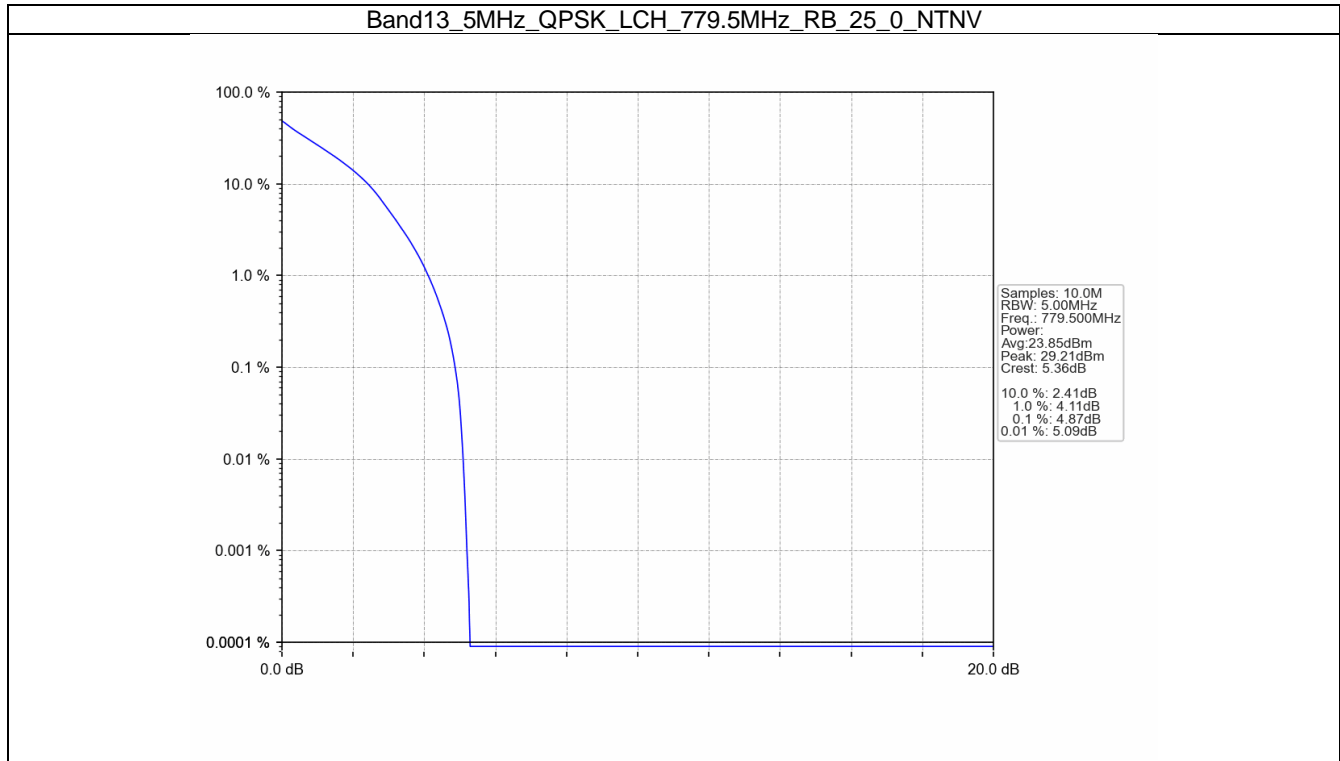


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4.1.2 Test Graph

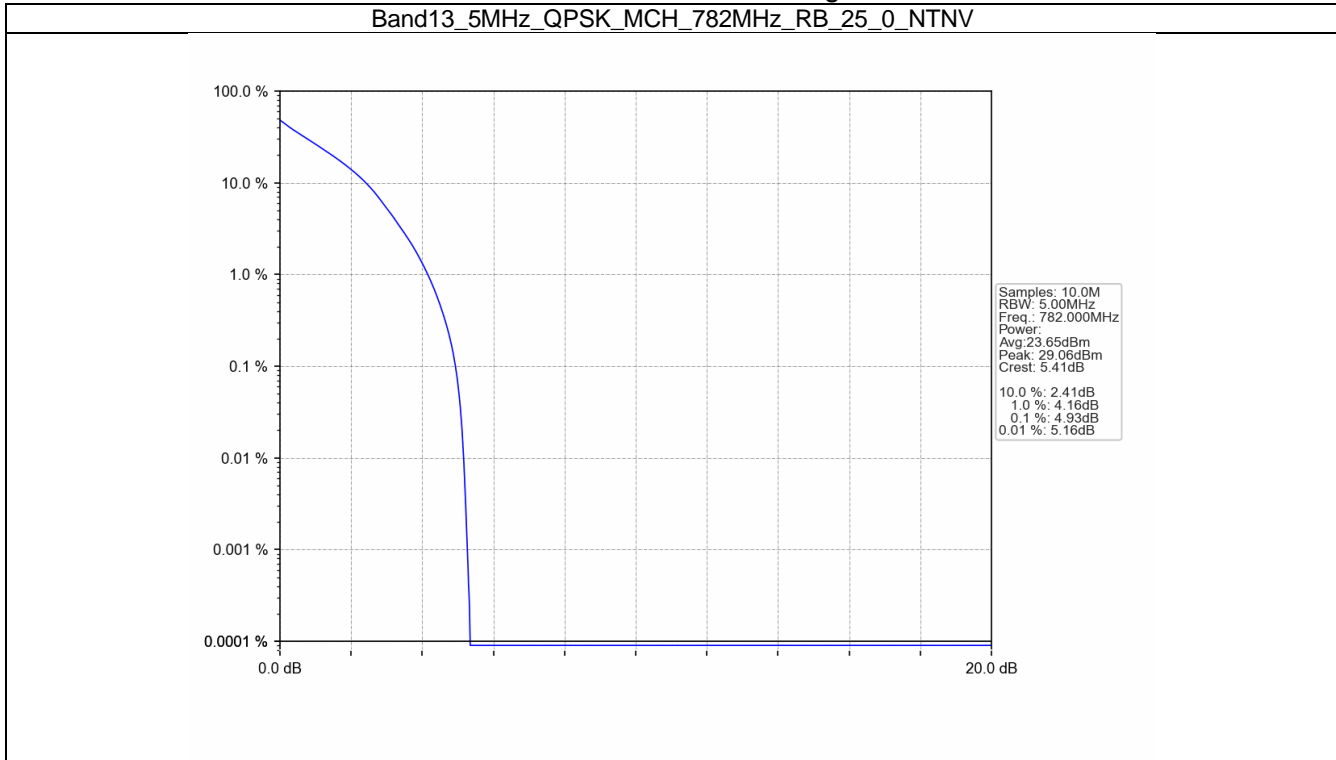


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Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV

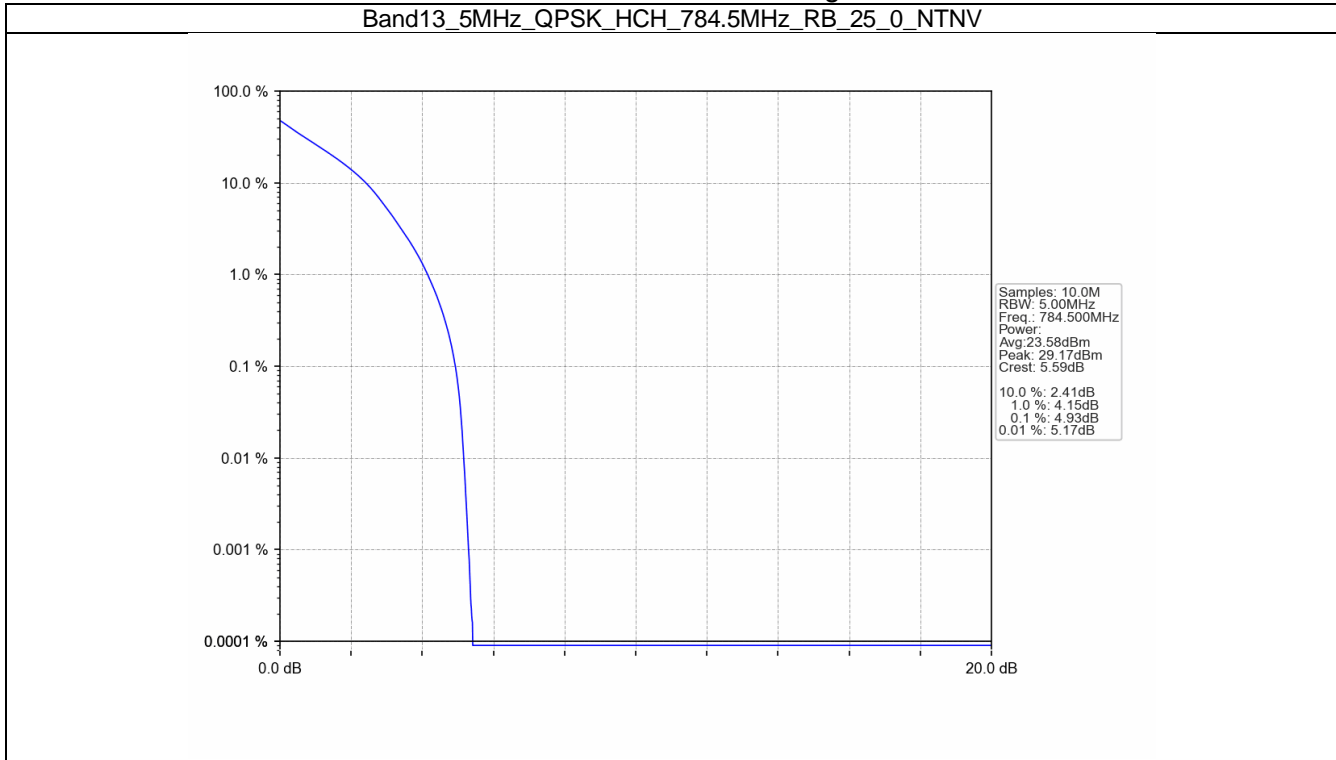


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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV

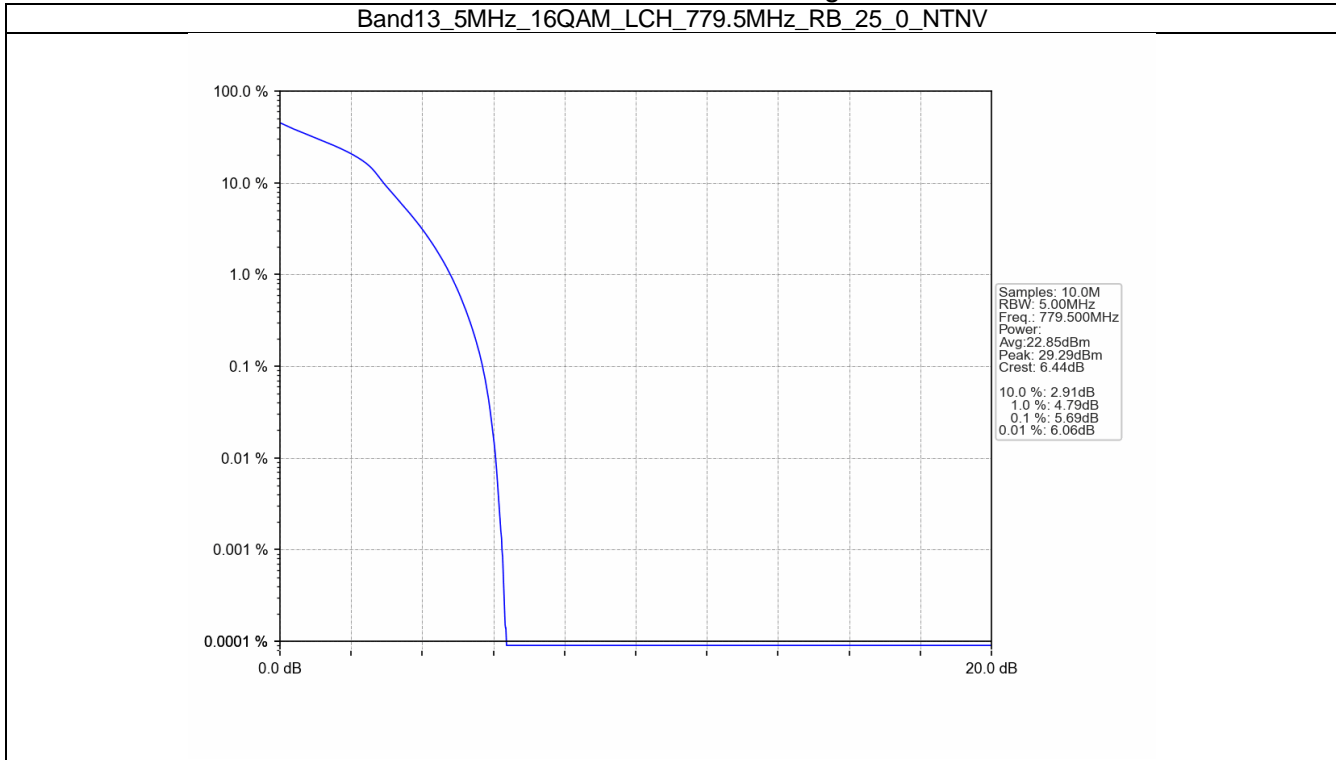


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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

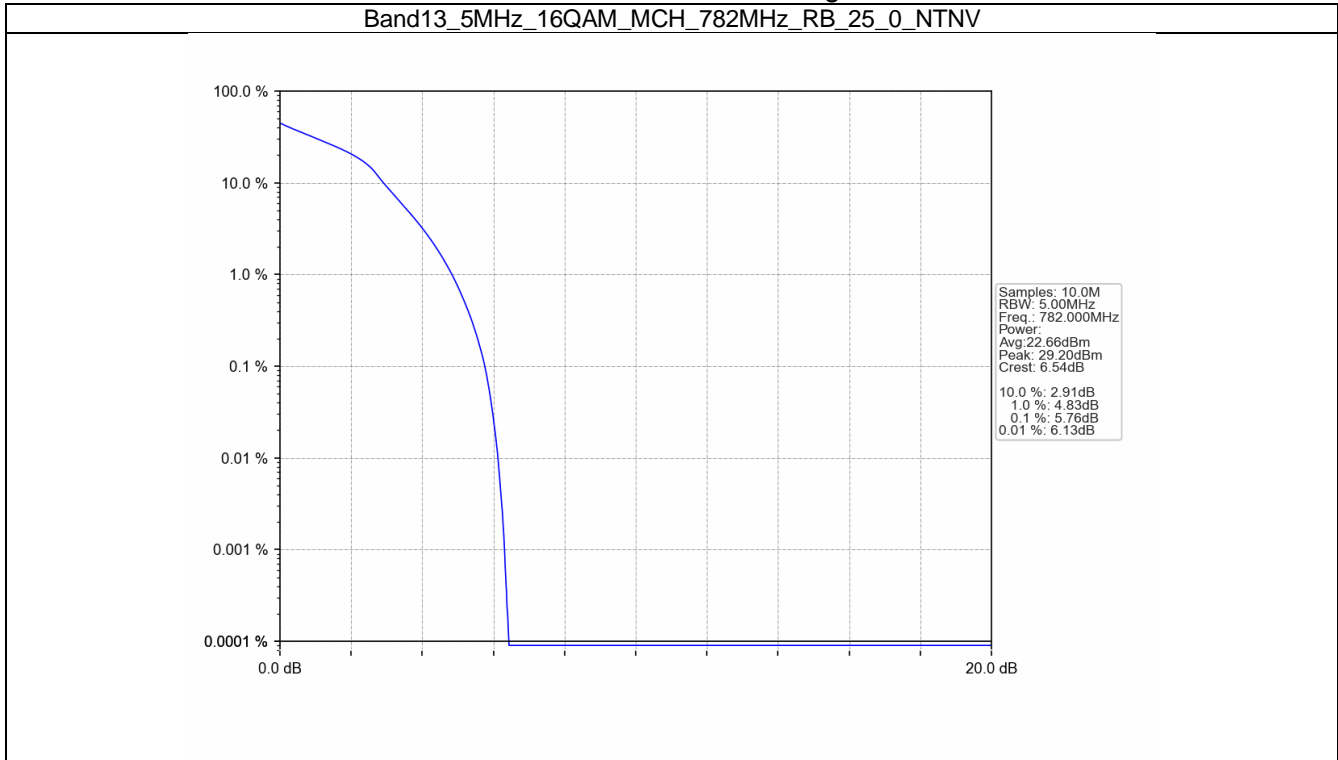


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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV

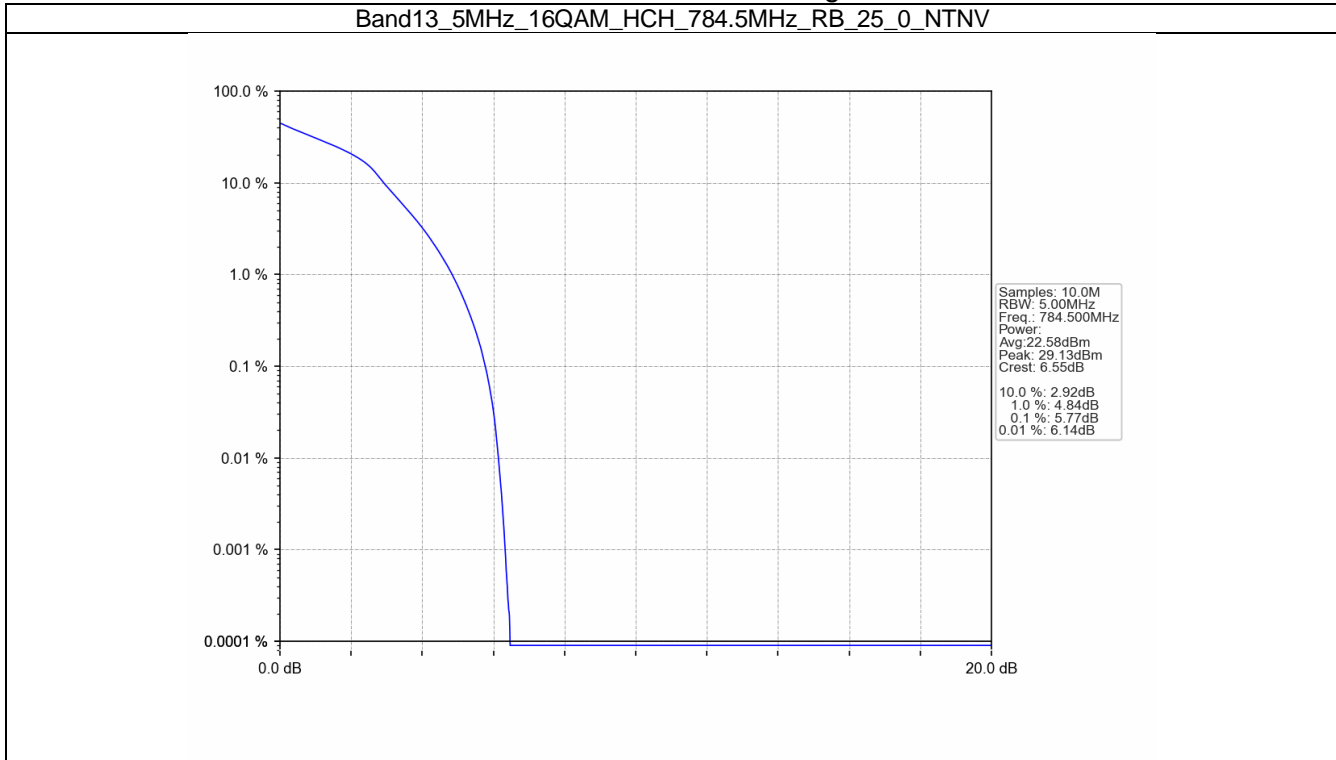


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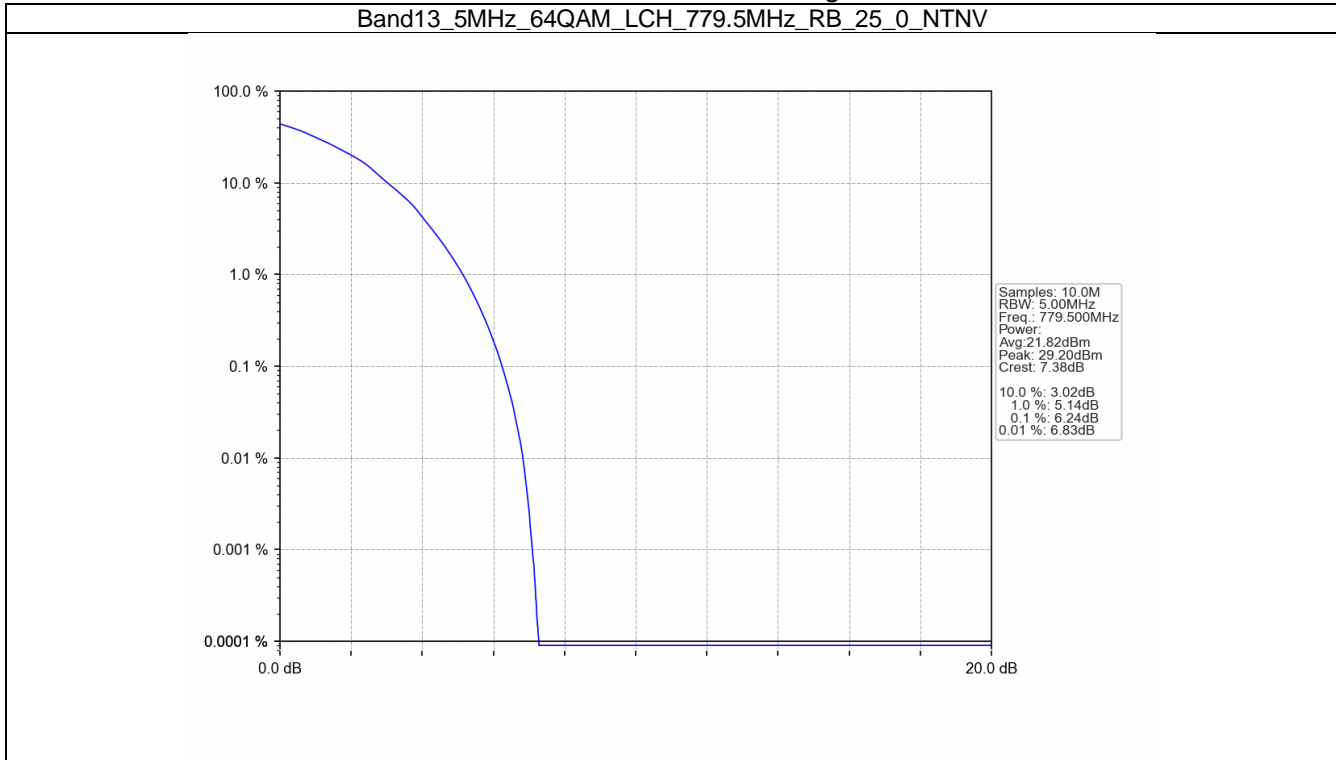


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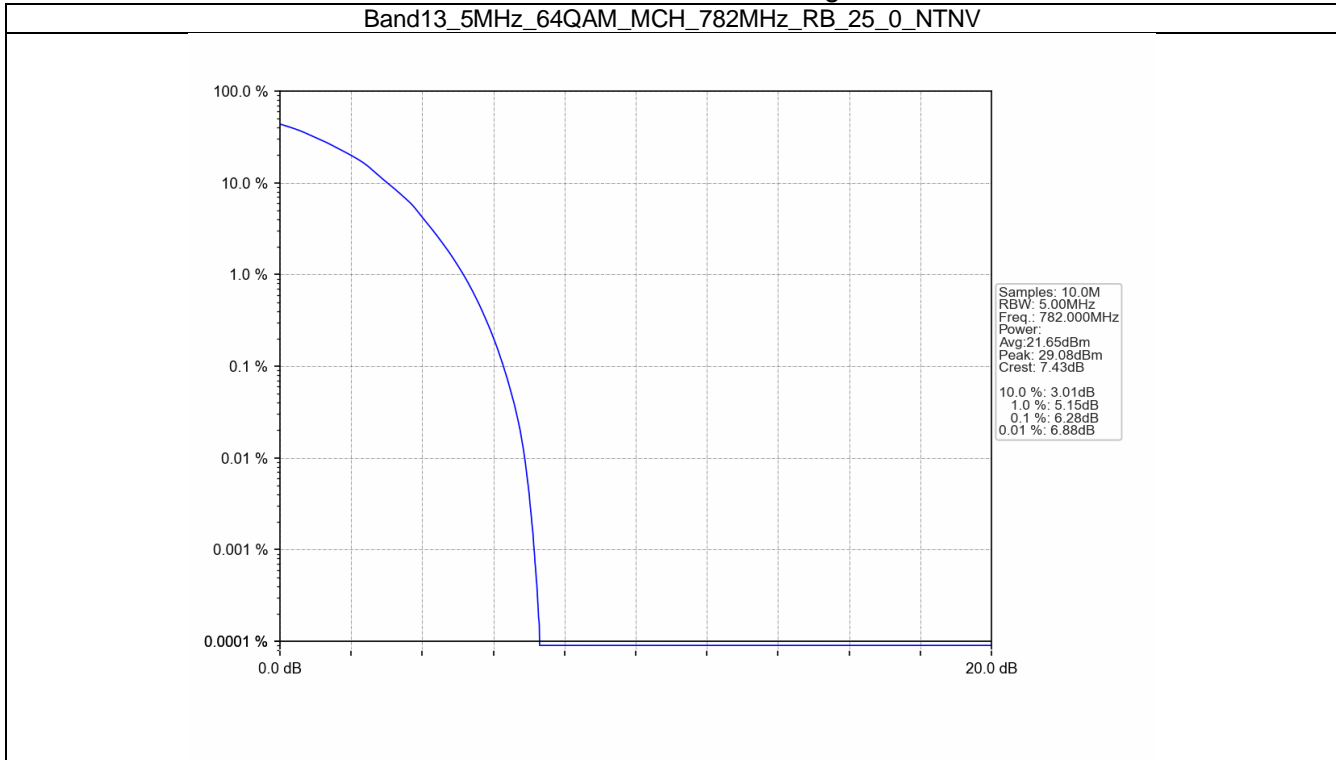


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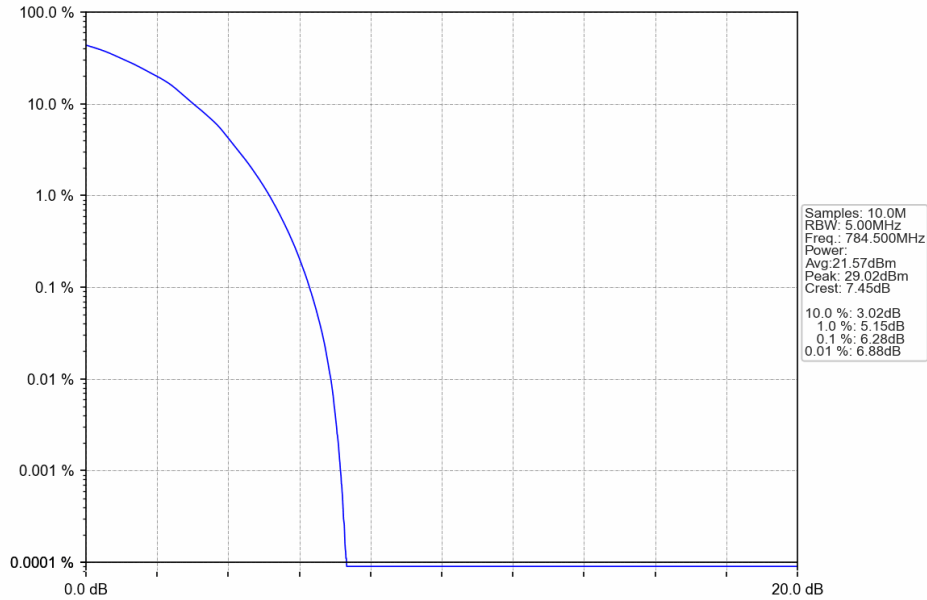


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4.2 B13_10MHz

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	4.94	<=13	Pass
16QAM	782	50	0	5.75	<=13	Pass
64QAM	782	50	0	6.26	<=13	Pass

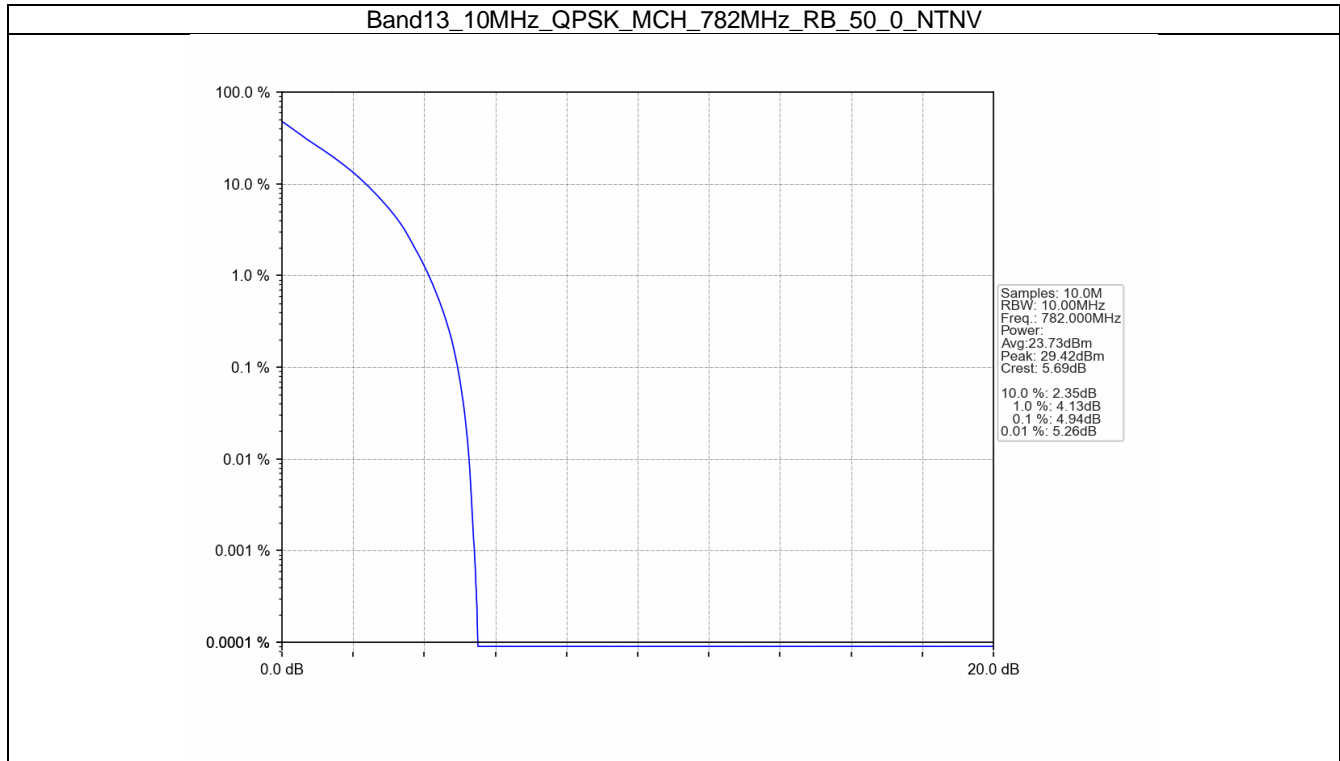


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4.2.2 Test Graph

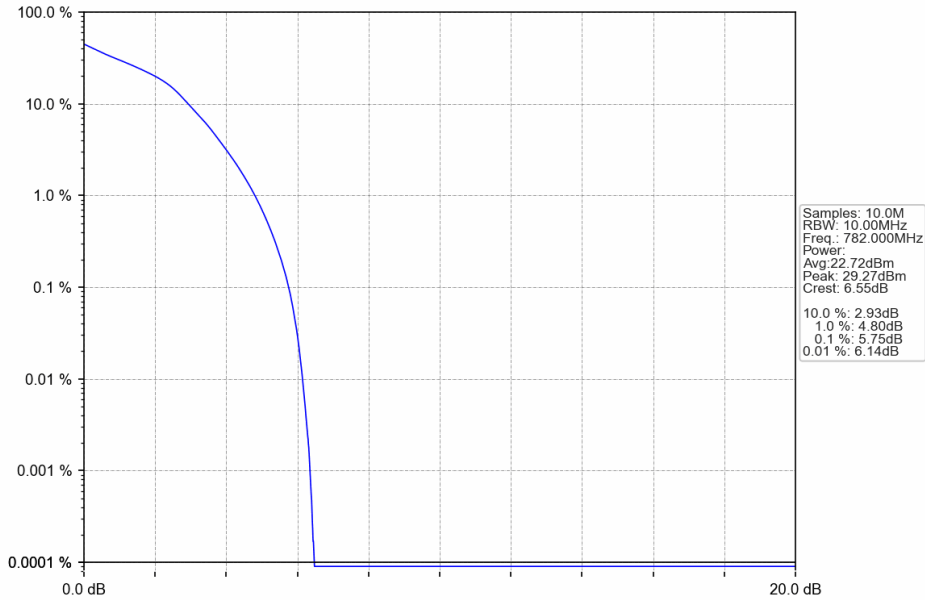


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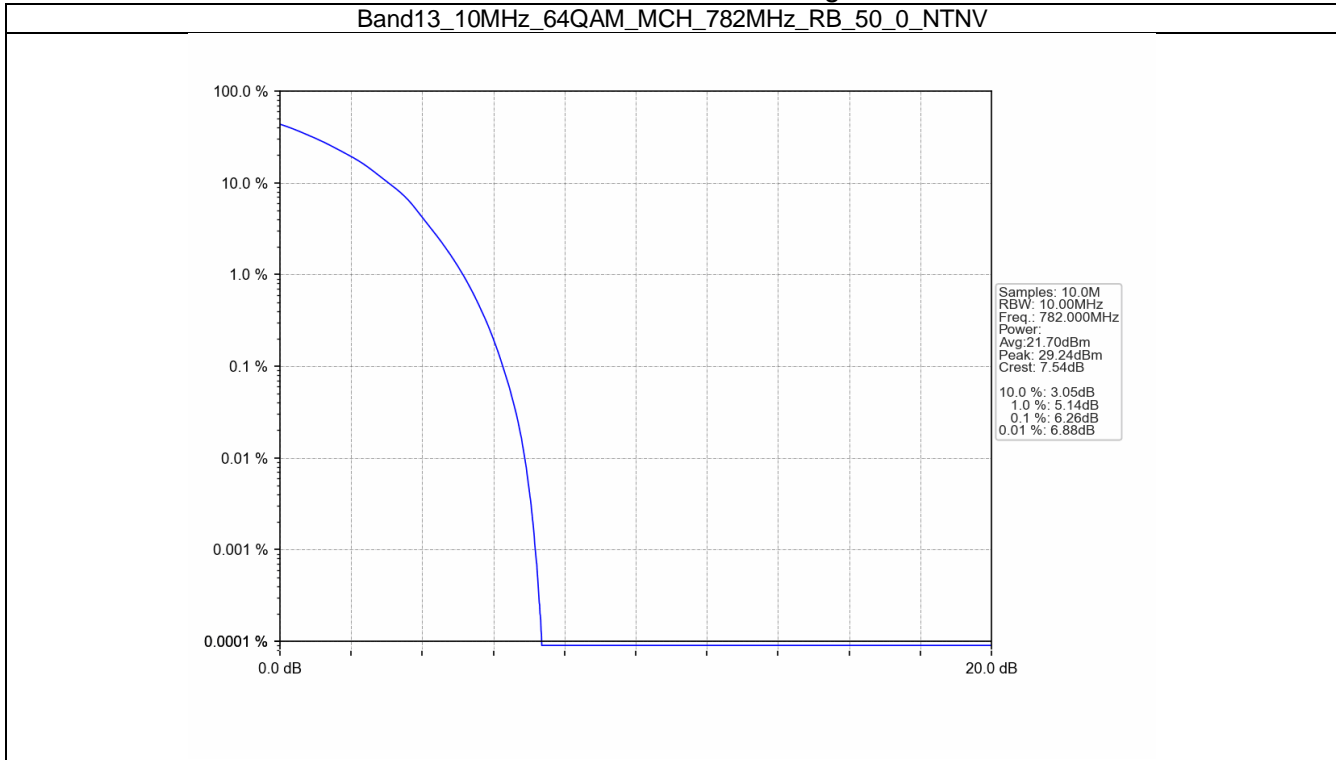


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Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



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5. Spurious Emission & Band Edges

5.1 B13_5MHz

5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTV						
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	
		1	0	Refer To Test Graph	Pass	
	784.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
16QAM	779.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	782	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	784.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
64QAM	779.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	782	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	784.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	

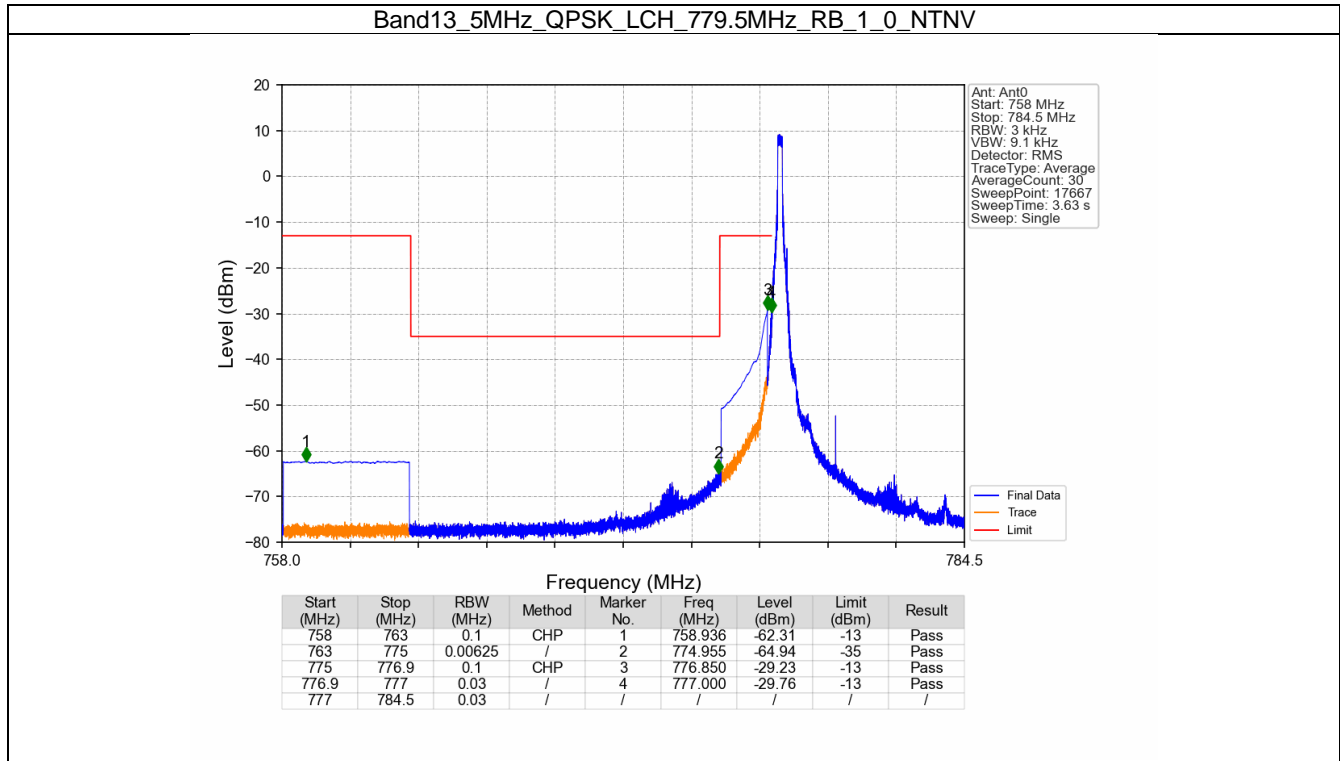


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5.1.2 Test Graph

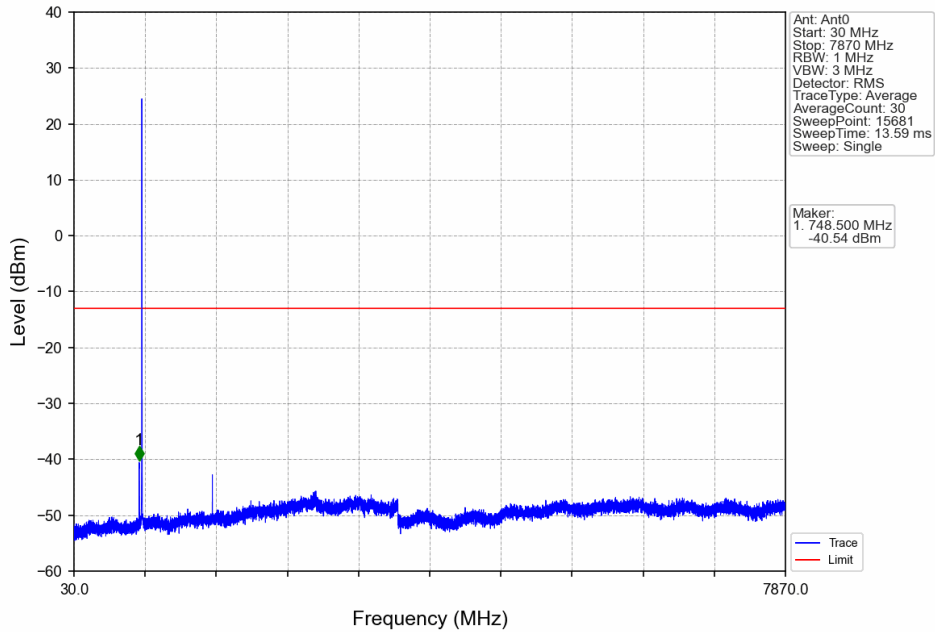


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Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

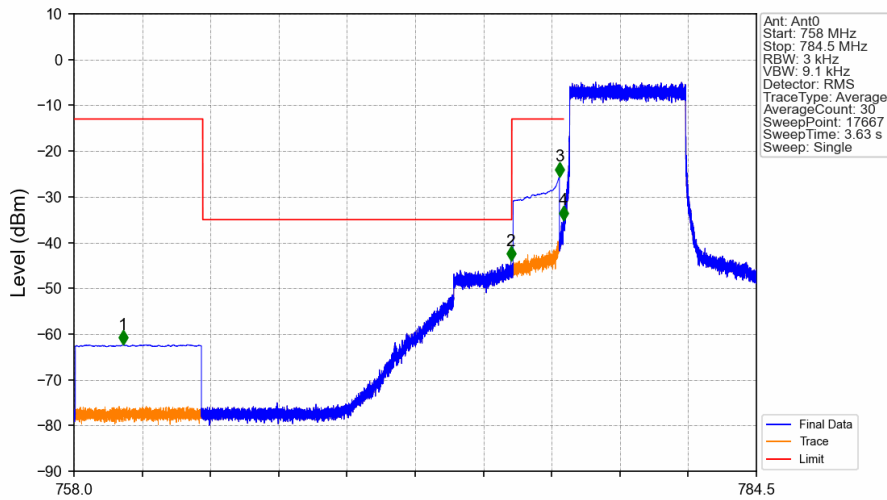


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Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.899	-62.32	-13	Pass
763	775	0.00625	/	2	774.964	-43.93	-35	Pass
775	776.9	0.1	CHP	3	776.850	-25.54	-13	Pass
776.9	777	0.03	/	4	777.000	-35.09	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

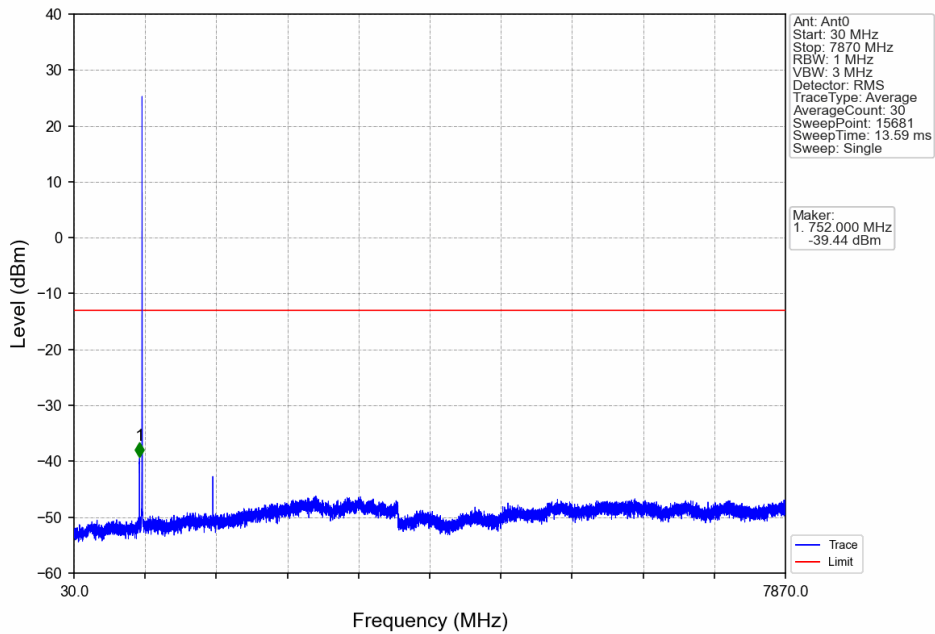


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Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV

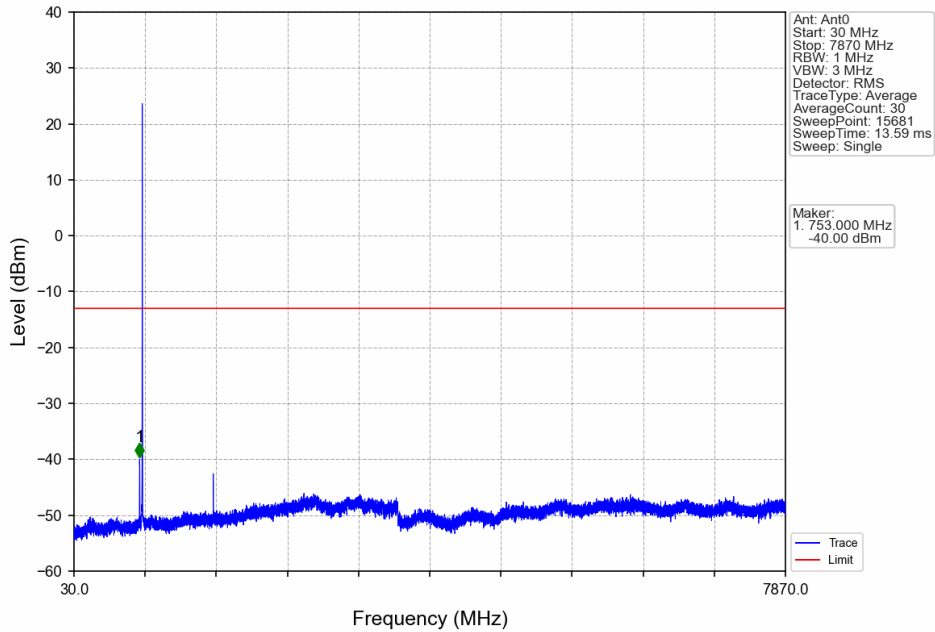


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Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

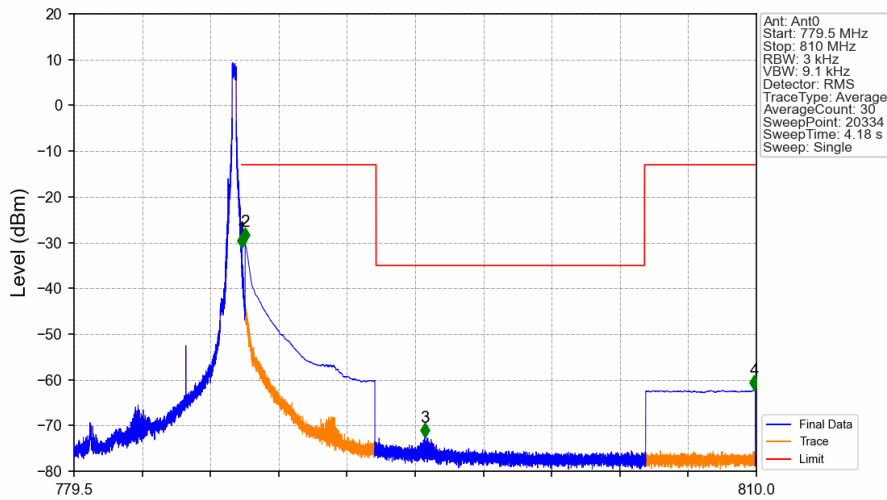


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Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-31.22	-13	Pass
787.1	793	0.1	CHP	2	787.150	-29.85	-13	Pass
793	805	0.00625	/	3	795.177	-72.66	-35	Pass
805	810	0.1	CHP	4	809.907	-62.25	-13	Pass

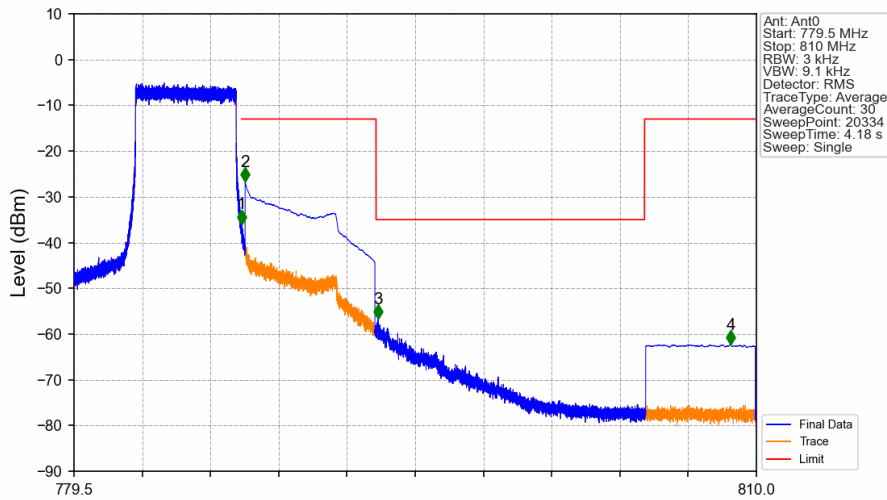


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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-35.96	-13	Pass
787.1	793	0.1	CHP	2	787.150	-26.67	-13	Pass
793	805	0.00625	/	3	793.089	-56.70	-35	Pass
805	810	0.1	CHP	4	808.851	-62.34	-13	Pass

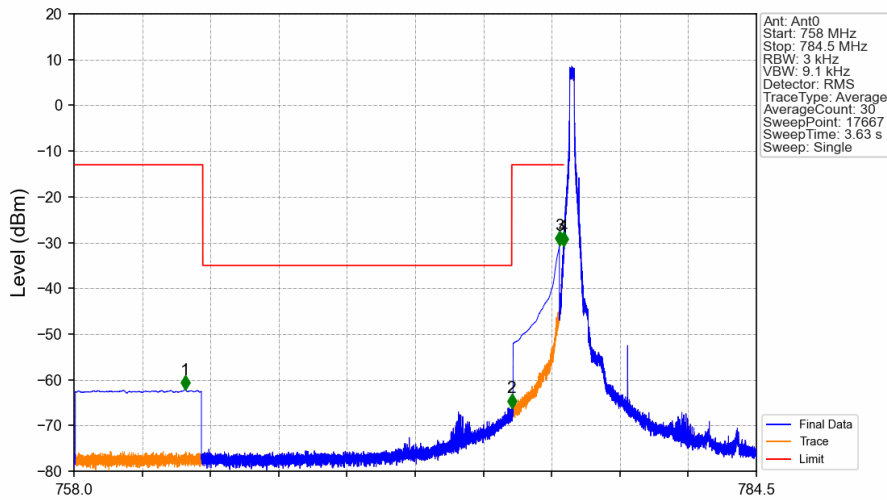


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Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.319	-62.21	-13	Pass
763	775	0.00625	/	2	774.996	-66.15	-35	Pass
775	776.9	0.1	CHP	3	776.850	-30.60	-13	Pass
776.9	777	0.03	/	4	777.000	-30.77	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

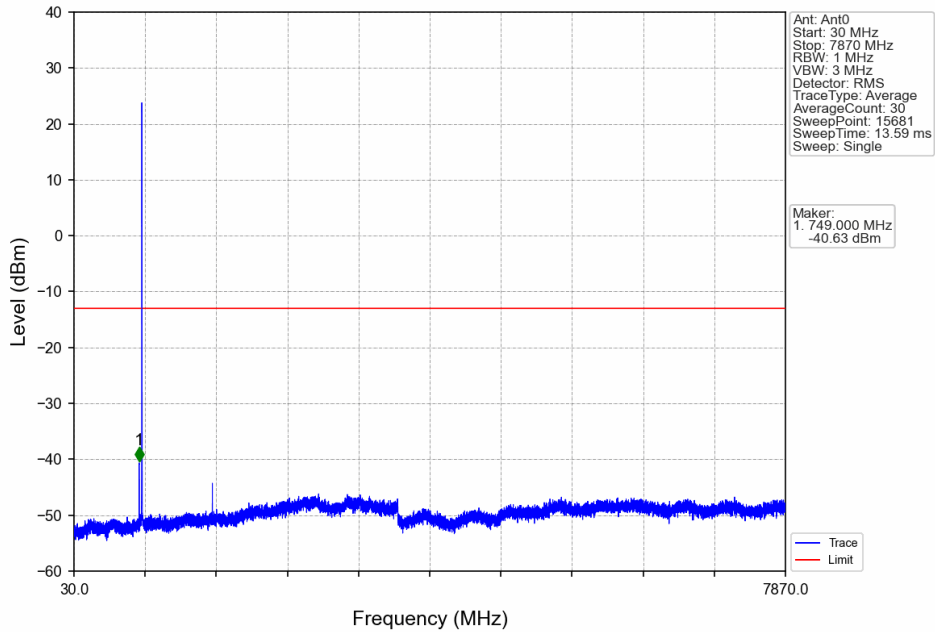


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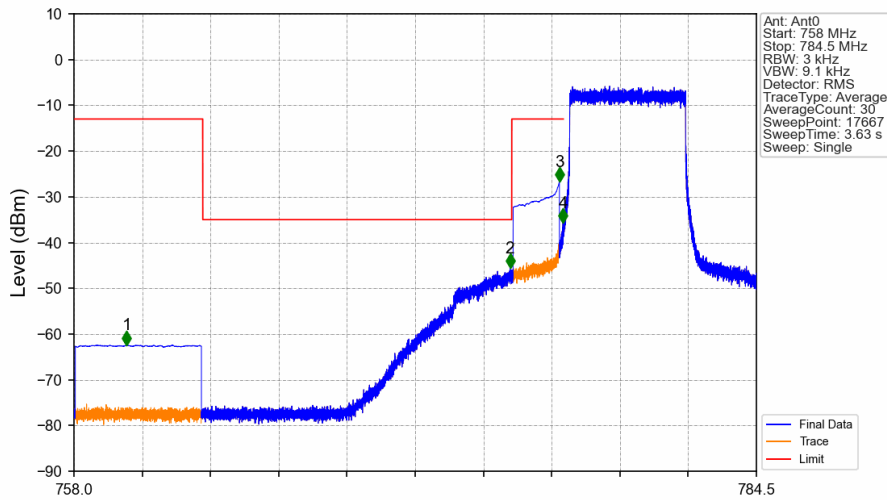


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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.051	-62.40	-13	Pass
763	775	0.00625	/	2	774.934	-45.59	-35	Pass
775	776.9	0.1	CHP	3	776.850	-26.66	-13	Pass
776.9	777	0.03	/	4	776.988	-35.75	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

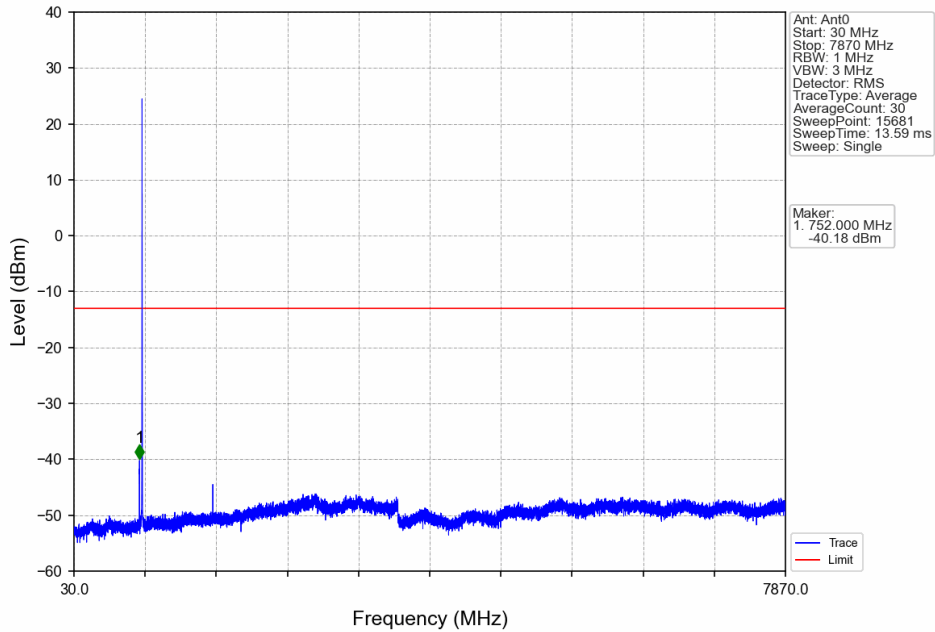


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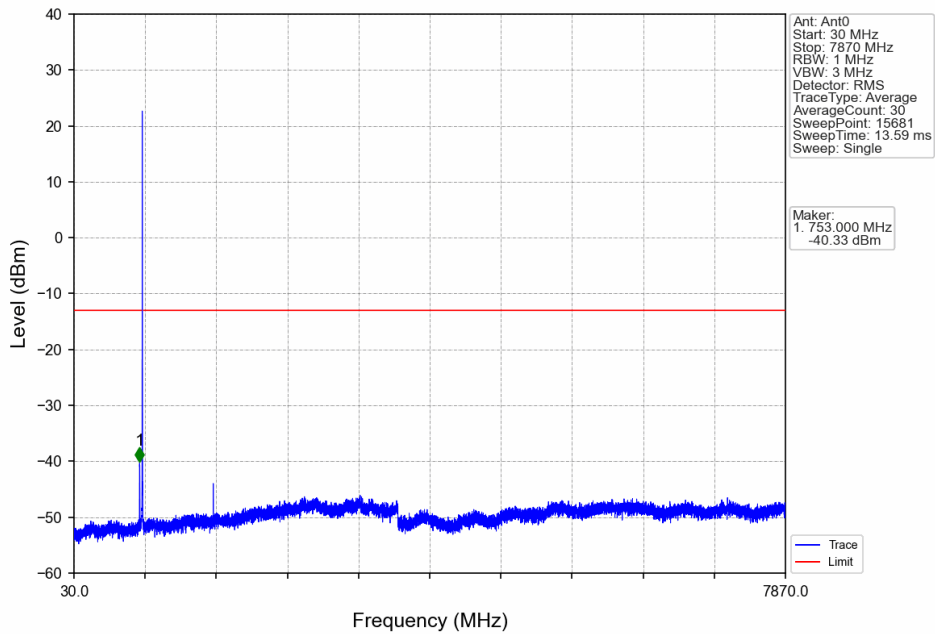
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



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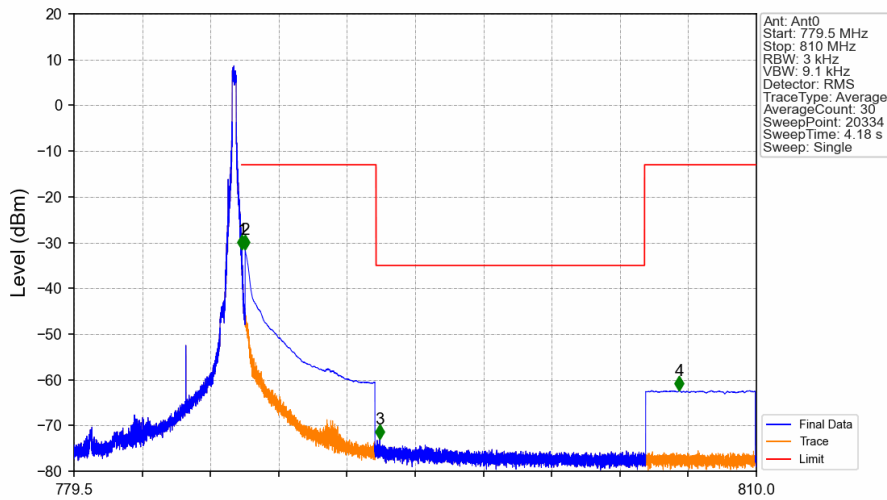
Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



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Band13_5MHz_16QAM_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	0.03	/	1	787.003	-31.56	-13	Pass
787.1	793	0.1	CHP	2	787.150	-31.50	-13	Pass
793	805	0.00625	/	3	793.168	-73.01	-35	Pass
805	810	0.1	CHP	4	806.556	-62.35	-13	Pass

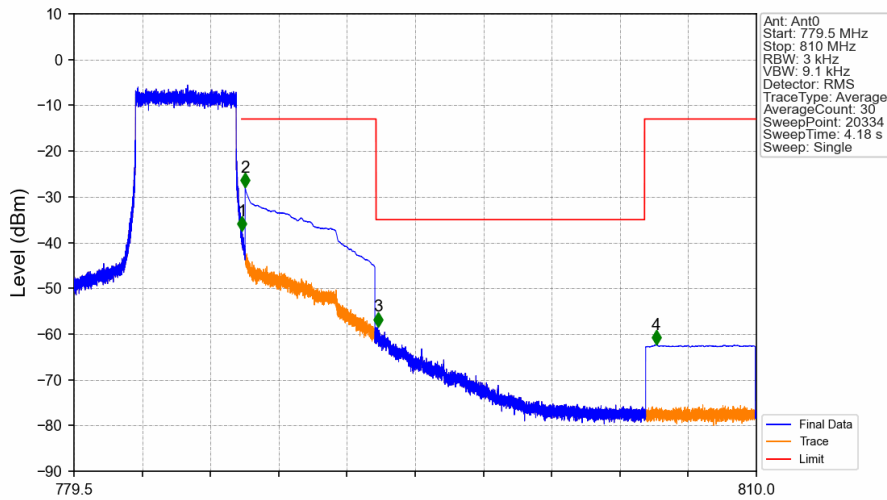


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Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.002	-37.42	-13	Pass
787.1	793	0.1	CHP	2	787.150	-27.92	-13	Pass
793	805	0.00625	/	3	793.075	-58.37	-35	Pass
805	810	0.1	CHP	4	805.527	-62.37	-13	Pass

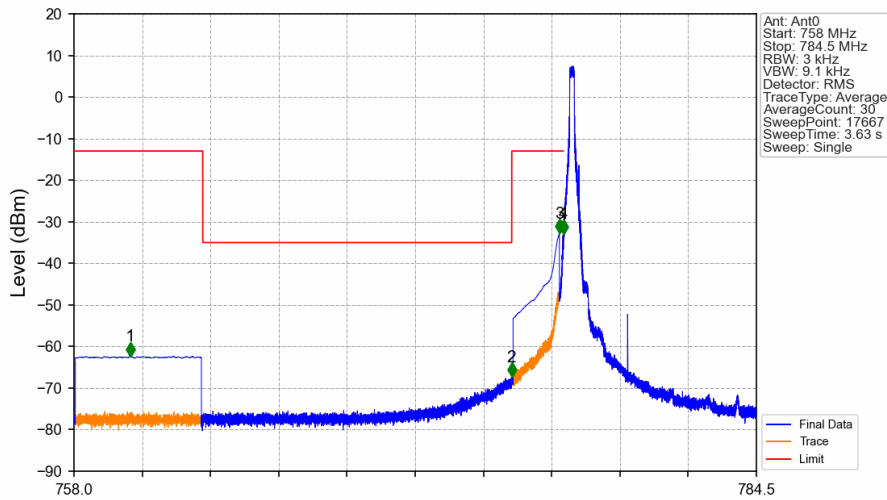


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Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.190	-62.37	-13	Pass
763	775	0.00625	/	2	774.997	-67.31	-35	Pass
775	776.9	0.1	CHP	3	776.850	-32.71	-13	Pass
776.9	777	0.03	/	4	777.000	-32.88	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

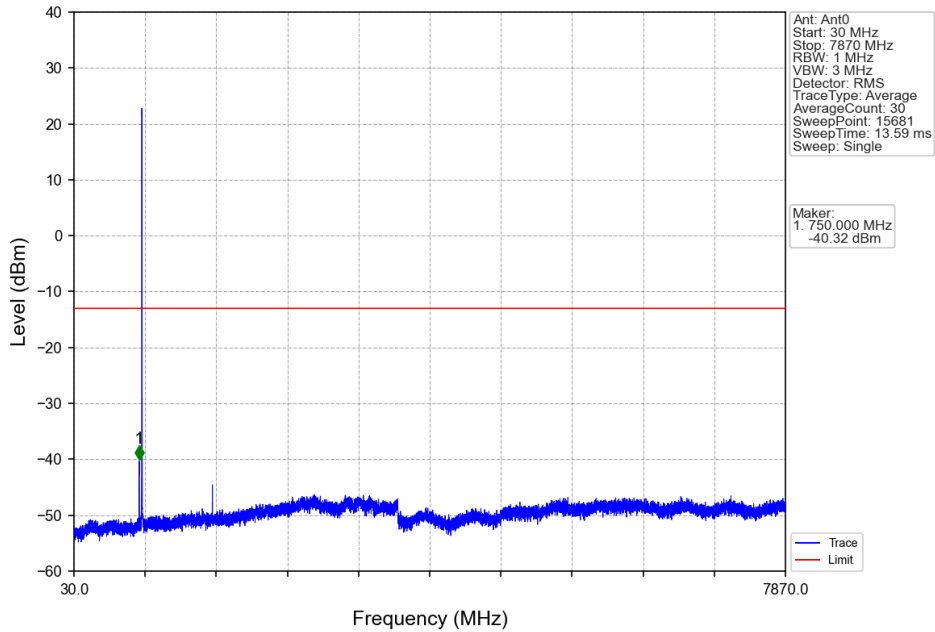


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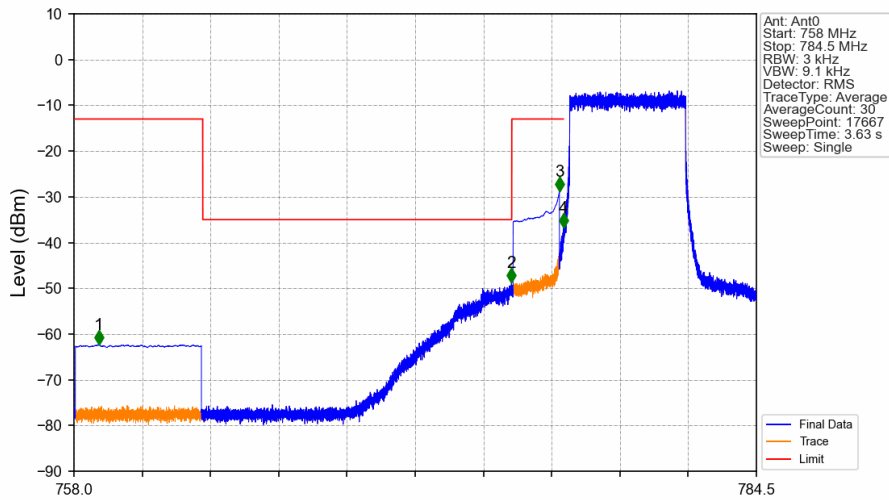
Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTNV



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Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.957	-62.37	-13	Pass
763	775	0.00625	/	2	774.990	-48.79	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.82	-13	Pass
776.9	777	0.03	/	4	777.000	-36.78	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

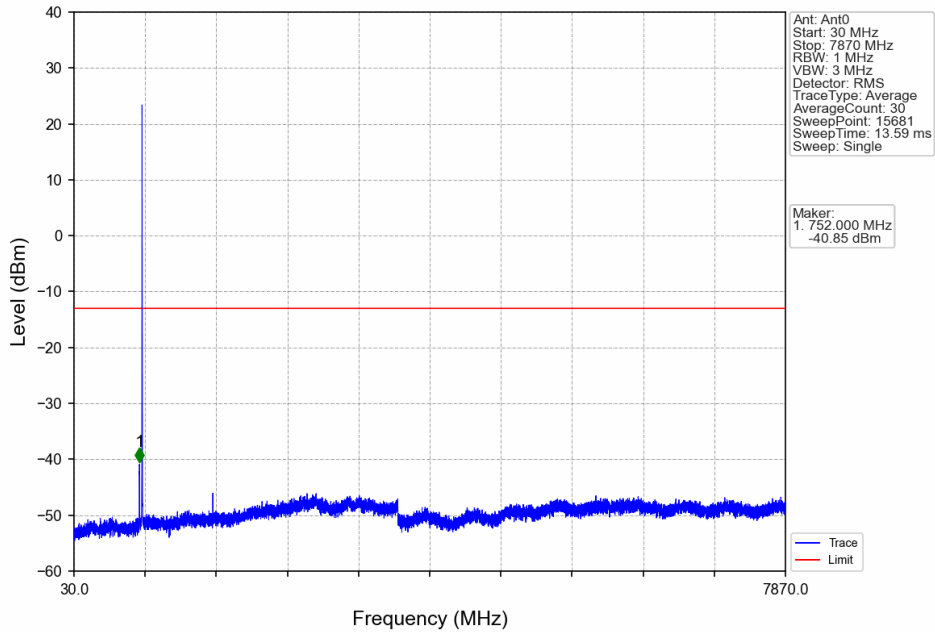


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Band13_5MHz_64QAM_MCH_782MHz_RB_1_0_NTNV

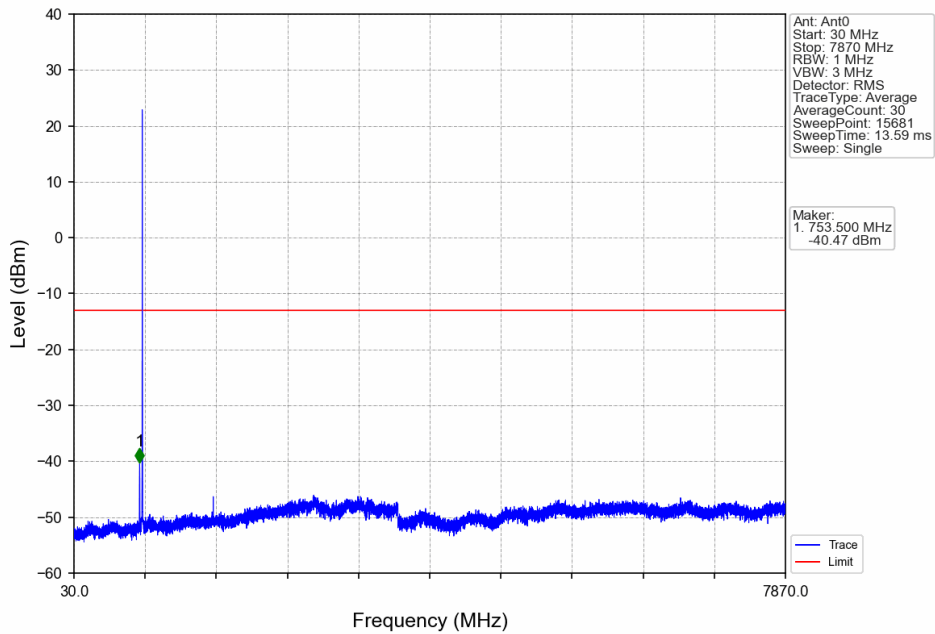


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Band13_5MHz_64QAM_HCH_784.5MHz_RB_1_0_NTNV

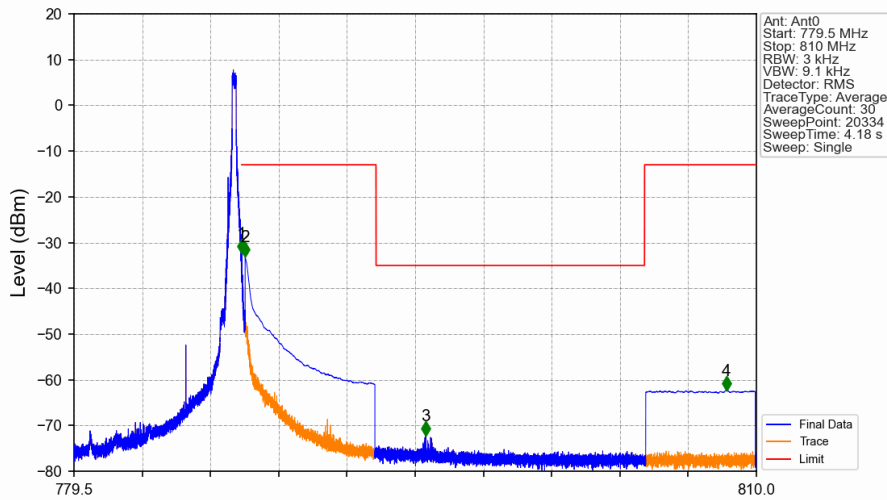


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Band13_5MHz_64QAM_HCH_784.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-32.35	-13	Pass
787.1	793	0.1	CHP	2	787.150	-33.04	-13	Pass
793	805	0.00625	/	3	795.217	-72.21	-35	Pass
805	810	0.1	CHP	4	808.660	-62.37	-13	Pass

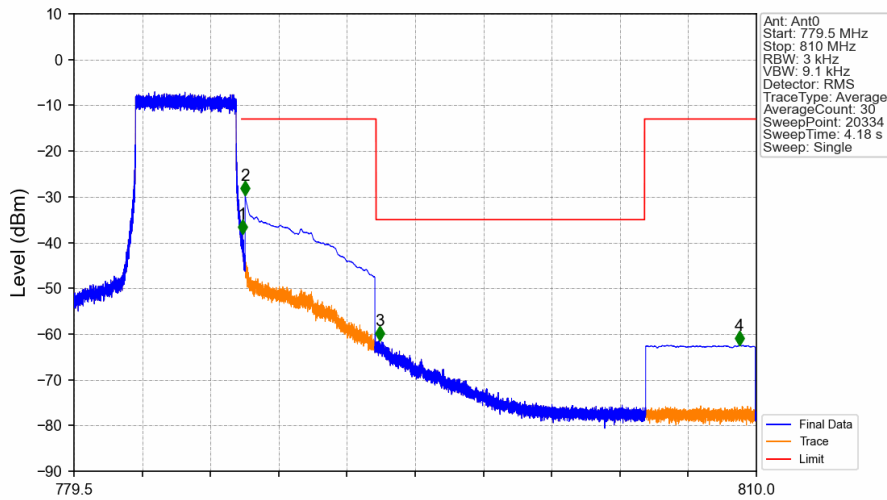


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Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.027	-38.12	-13	Pass
787.1	793	0.1	CHP	2	787.150	-29.72	-13	Pass
793	805	0.00625	/	3	793.149	-61.46	-35	Pass
805	810	0.1	CHP	4	809.238	-62.46	-13	Pass



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5.2 B13_10MHz

5.2.1 Test Result

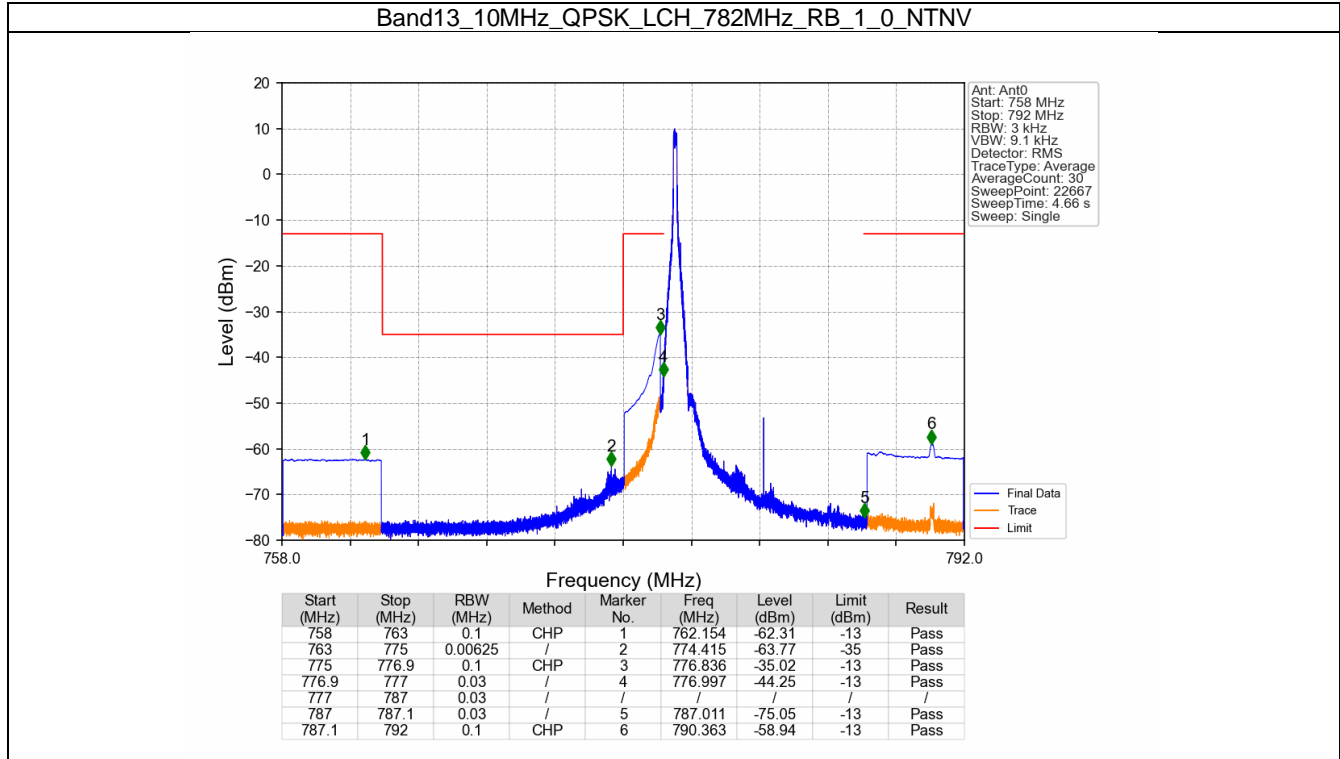
Band: 13 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
	782	50	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
16QAM	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
	782	50	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
64QAM	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
	782	50	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	49	Refer To Test Graph		Pass		
	50	0	Refer To Test Graph		Pass	



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5.2.2 Test Graph

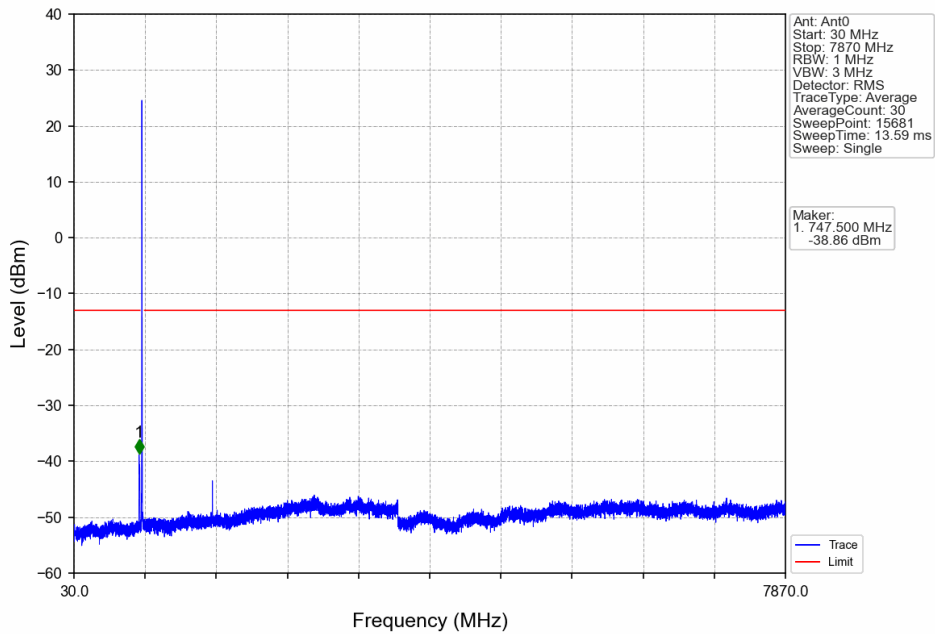


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Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

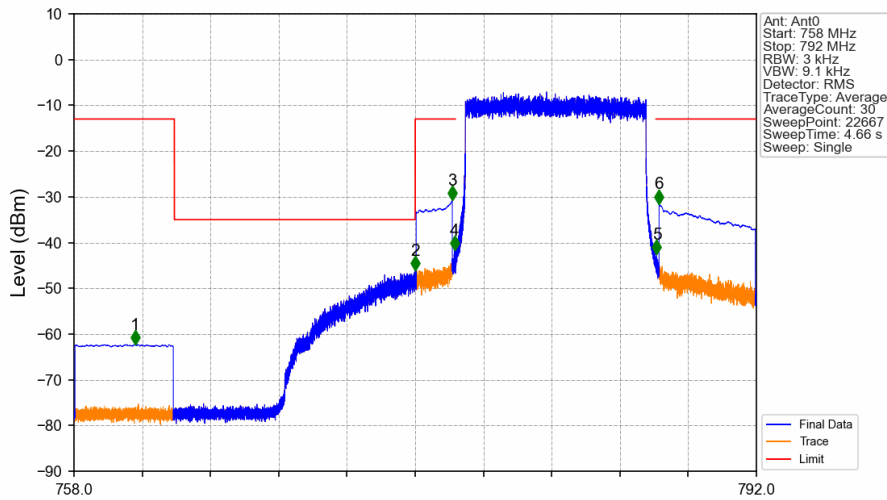


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Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.053	-62.31	-13	Pass
763	775	0.00625	/	2	774.999	-46.03	-35	Pass
775	776.9	0.1	CHP	3	776.850	-30.74	-13	Pass
776.9	777	0.03	/	4	776.956	-41.71	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.035	-42.56	-13	Pass
787.1	792	0.1	CHP	6	787.150	-31.53	-13	Pass

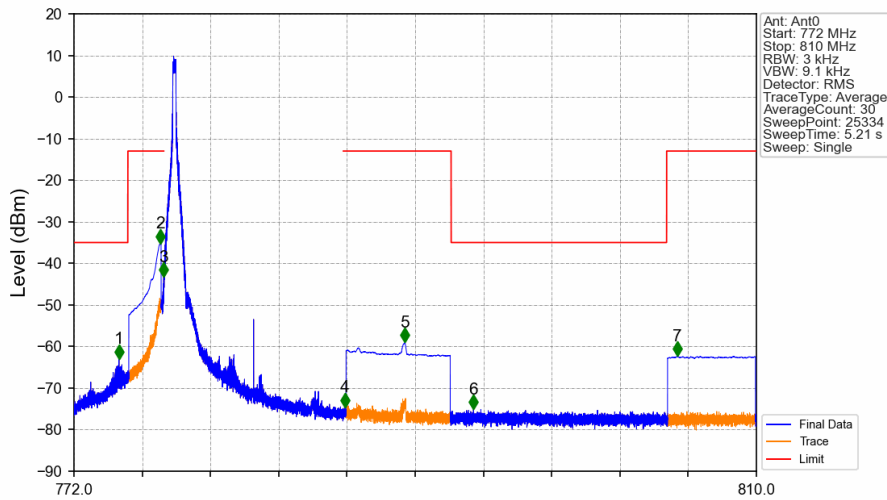


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Band13_10MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



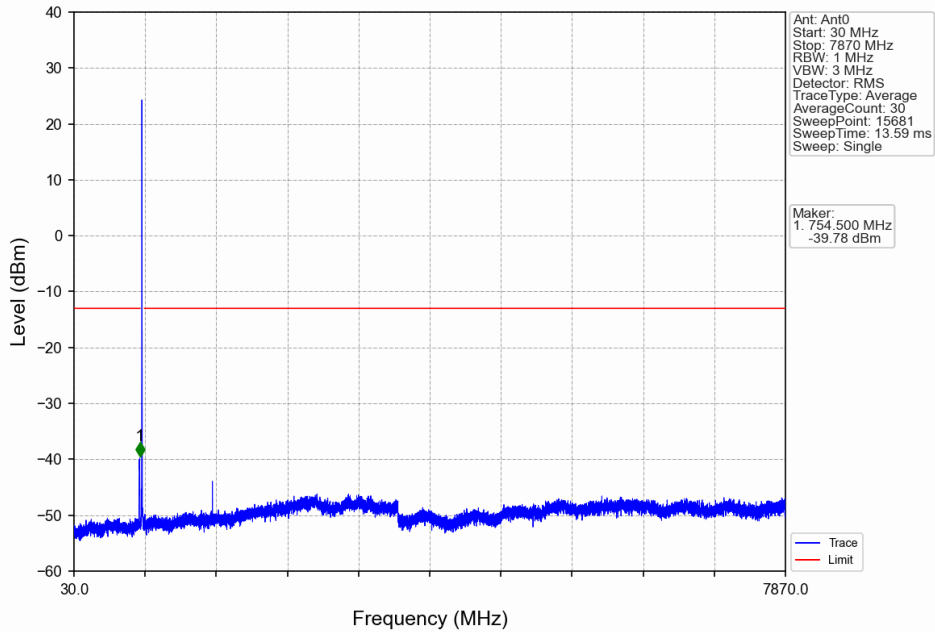
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.505	-62.93	-35	Pass
775	776.9	0.1	CHP	2	776.824	-35.21	-13	Pass
776.9	777	0.03	/	3	776.997	-43.20	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.078	-74.58	-13	Pass
787.1	793	0.1	CHP	5	790.425	-59.04	-13	Pass
793	805	0.00625	/	6	794.247	-75.15	-35	Pass
805	810	0.1	CHP	7	805.581	-62.30	-13	Pass



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Band13_10MHz_QPSK_MCH_782MHz_RB_1_0_NTNV

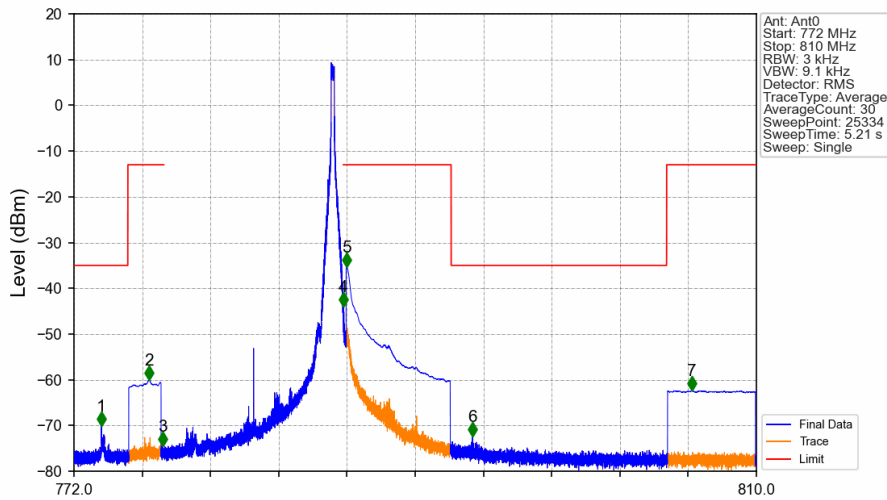


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Band13_10MHz_QPSK_MCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.529	-70.18	-35	Pass
775	776.9	0.1	CHP	2	776.185	-60.03	-13	Pass
776.9	777	0.03	/	3	776.943	-74.53	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.003	-44.02	-13	Pass
787.1	793	0.1	CHP	5	787.186	-35.43	-13	Pass
793	805	0.00625	/	6	794.185	-72.49	-35	Pass
805	810	0.1	CHP	7	806.403	-62.40	-13	Pass

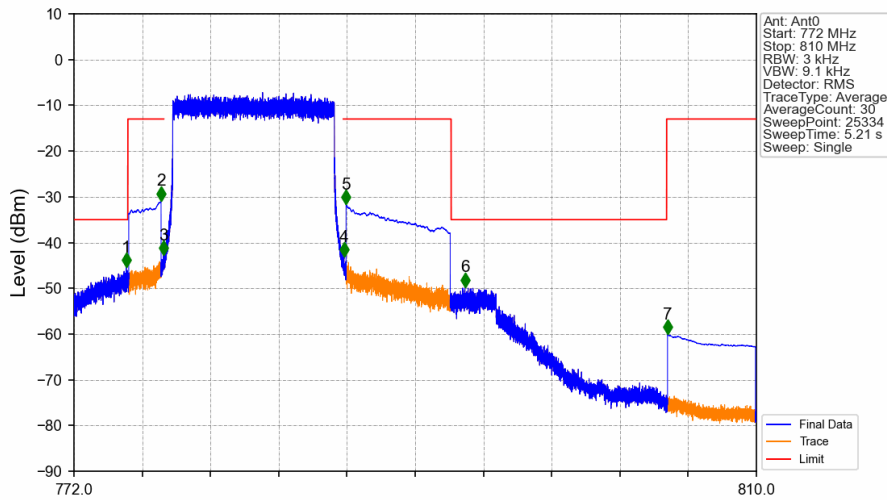


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Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.910	-45.39	-35	Pass
775	776.9	0.1	CHP	2	776.850	-30.84	-13	Pass
776.9	777	0.03	/	3	776.985	-42.80	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.029	-43.08	-13	Pass
787.1	793	0.1	CHP	5	787.150	-31.63	-13	Pass
793	805	0.00625	/	6	793.765	-49.70	-35	Pass
805	810	0.1	CHP	7	805.051	-60.07	-13	Pass

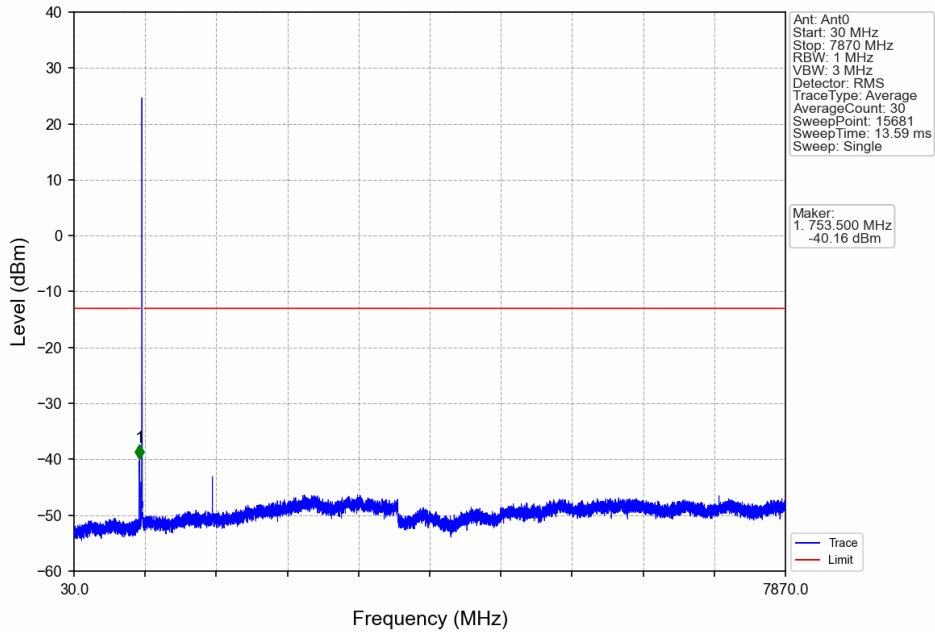


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Band13_10MHz_QPSK_HCH_782MHz_RB_1_0_NTNV

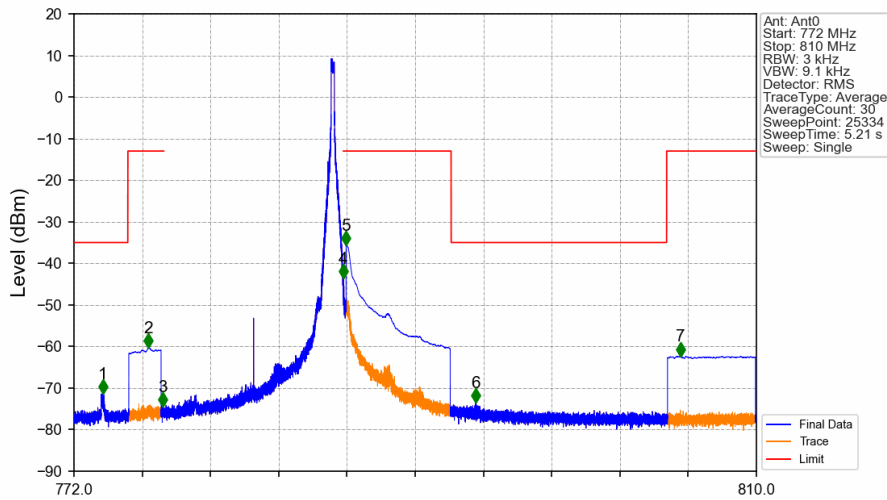


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Band13_10MHz_QPSK_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.599	-71.40	-35	Pass
775	776.9	0.1	CHP	2	776.152	-60.37	-13	Pass
776.9	777	0.03	/	3	776.943	-74.44	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-43.62	-13	Pass
787.1	793	0.1	CHP	5	787.153	-35.72	-13	Pass
793	805	0.00625	/	6	794.373	-73.45	-35	Pass
805	810	0.1	CHP	7	805.762	-62.35	-13	Pass

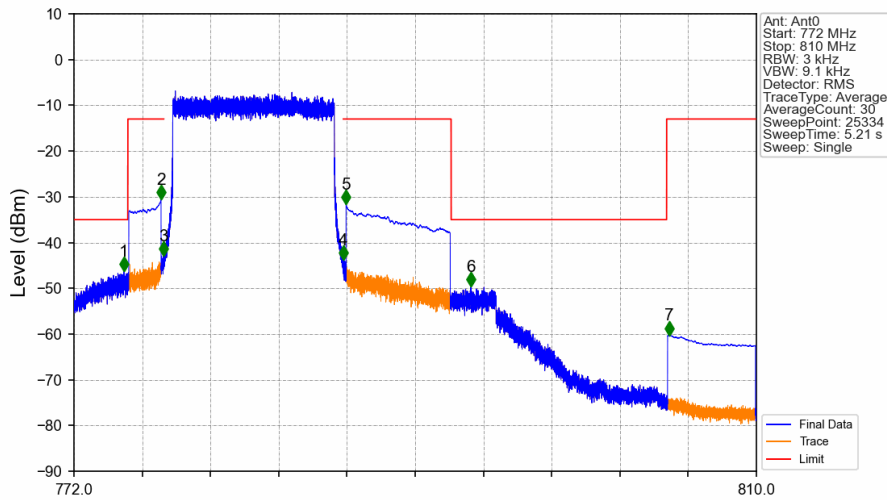


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Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.784	-46.27	-35	Pass
775	776.9	0.1	CHP	2	776.850	-30.54	-13	Pass
776.9	777	0.03	/	3	776.983	-42.91	-13	Pass
777	787	/	/	/	/	/	/	/
787	787.1	0.03	/	4	787.005	-43.83	-13	Pass
787.1	793	0.1	CHP	5	787.150	-31.63	-13	Pass
793	805	0.00625	/	6	794.115	-49.60	-35	Pass
805	810	0.1	CHP	7	805.138	-60.30	-13	Pass

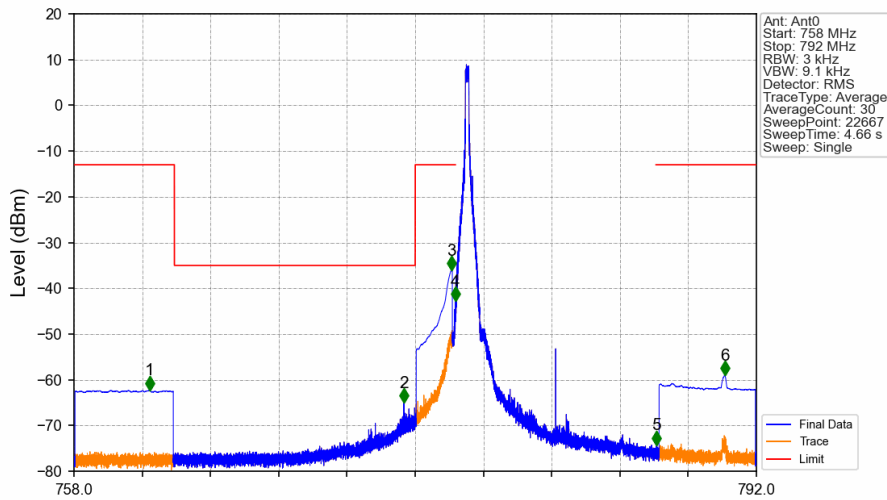


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.780	-62.29	-13	Pass
763	775	0.00625	/	2	774.436	-65.05	-35	Pass
775	776.9	0.1	CHP	3	776.817	-36.10	-13	Pass
776.9	777	0.03	/	4	776.997	-42.74	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.032	-74.29	-13	Pass
787.1	792	0.1	CHP	6	790.416	-58.98	-13	Pass

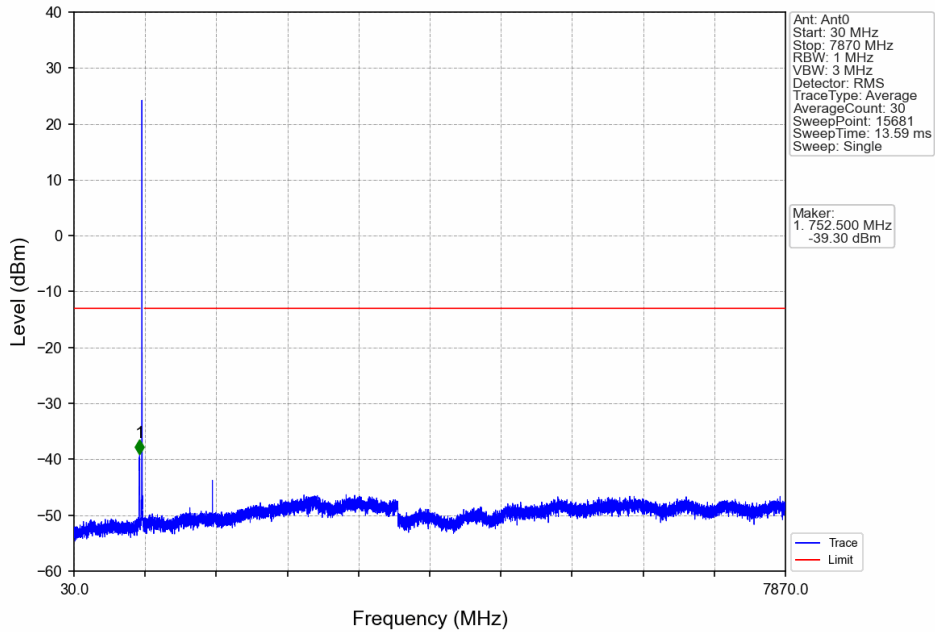


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Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV

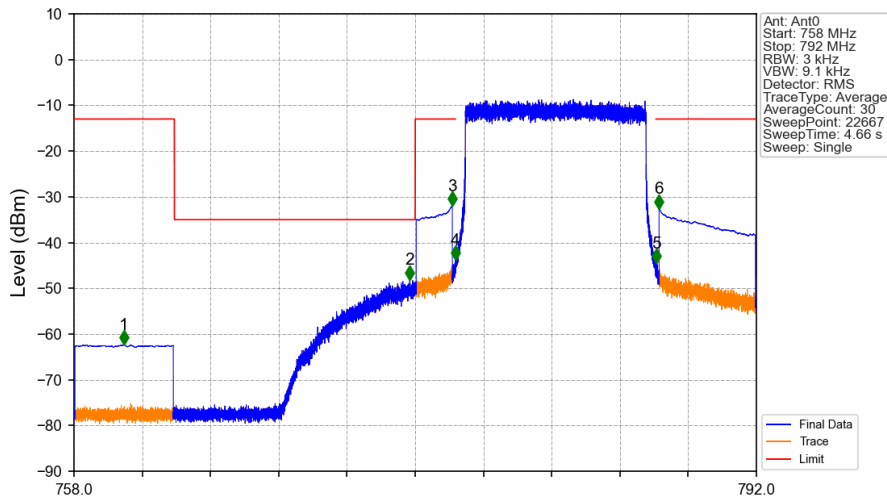


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Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



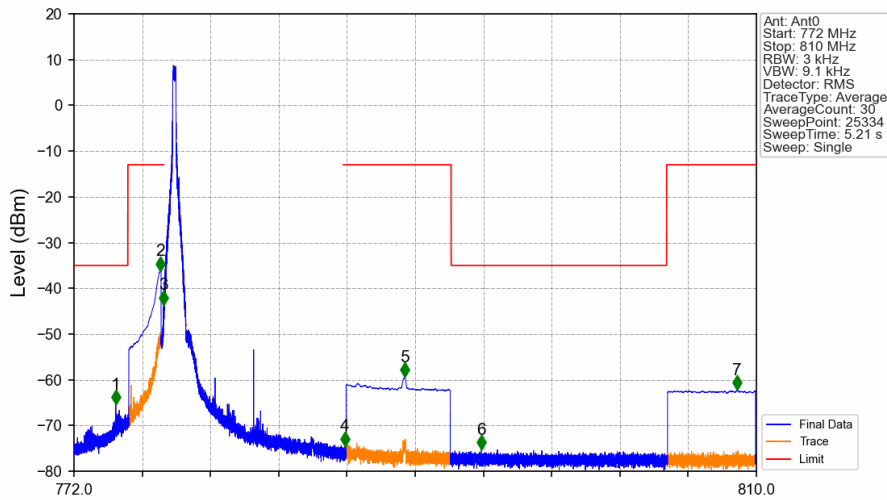
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.492	-62.35	-13	Pass
763	775	0.00625	/	2	774.730	-48.14	-35	Pass
775	776.9	0.1	CHP	3	776.850	-31.95	-13	Pass
776.9	777	0.03	/	4	776.998	-43.82	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.002	-44.47	-13	Pass
787.1	792	0.1	CHP	6	787.150	-32.61	-13	Pass



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Band13_10MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



Ant: Ant0
 Start: 772 MHz
 Stop: 810 MHz
 RBW: 3 kHz
 VBW: 9.1 kHz
 Detector: RMS
 TraceType: Average
 AverageCount: 30
 SweepPoint: 25334
 SweepTime: 5.21 s
 Sweep: Single

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.327	-65.38	-35	Pass
775	776.9	0.1	CHP	2	776.809	-36.18	-13	Pass
776.9	777	0.03	/	3	776.998	-43.61	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.083	-74.44	-13	Pass
787.1	793	0.1	CHP	5	790.425	-59.44	-13	Pass
793	805	0.00625	/	6	794.673	-75.27	-35	Pass
805	810	0.1	CHP	7	808.917	-62.26	-13	Pass

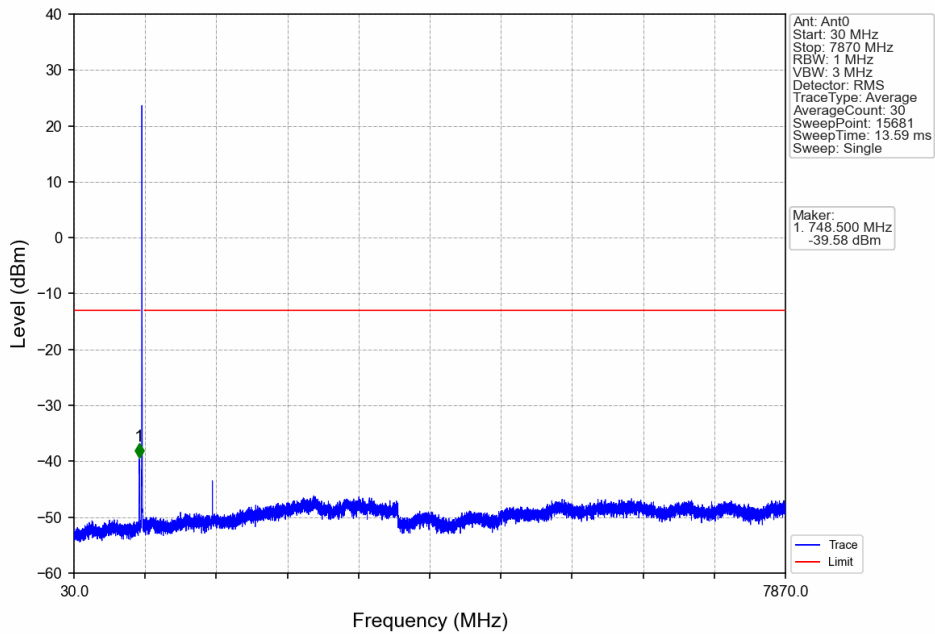


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Band13_10MHz_16QAM_MCH_782MHz_RB_1_0_NTNV

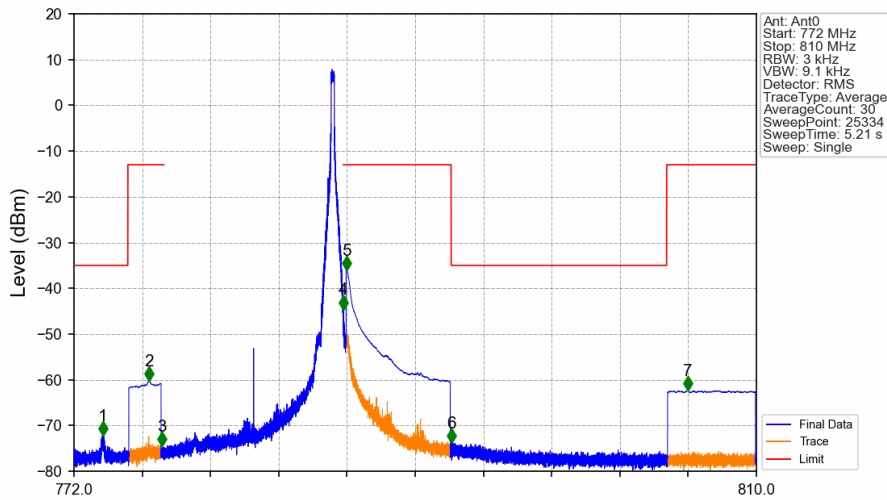


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Band13_10MHz_16QAM_MCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.614	-72.27	-35	Pass
775	776.9	0.1	CHP	2	776.193	-80.30	-13	Pass
776.9	777	0.03	/	3	776.917	-74.56	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.000	-44.65	-13	Pass
787.1	793	0.1	CHP	5	787.180	-36.03	-13	Pass
793	805	0.00625	/	6	793.003	-73.83	-35	Pass
805	810	0.1	CHP	7	806.181	-62.33	-13	Pass

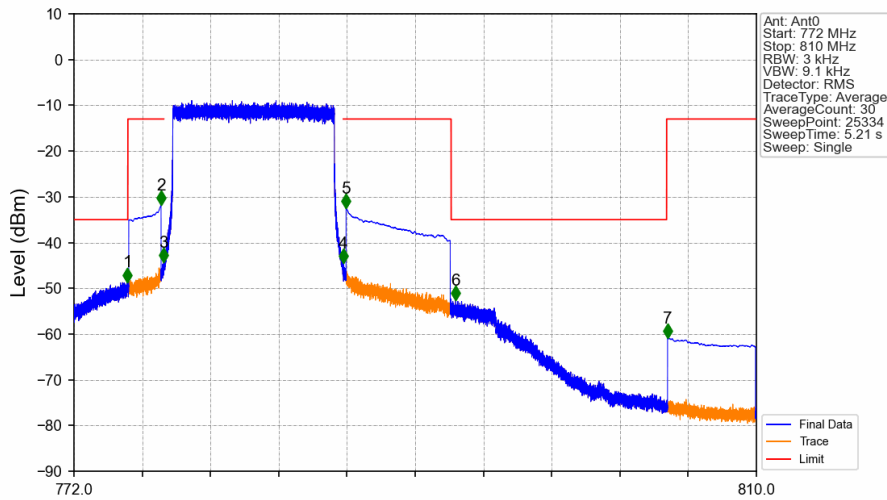


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Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.985	-48.65	-35	Pass
775	776.9	0.1	CHP	2	776.850	-31.87	-13	Pass
776.9	777	0.03	/	3	776.997	-44.32	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.005	-44.49	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.47	-13	Pass
793	805	0.00625	/	6	793.257	-52.58	-35	Pass
805	810	0.1	CHP	7	805.054	-60.95	-13	Pass

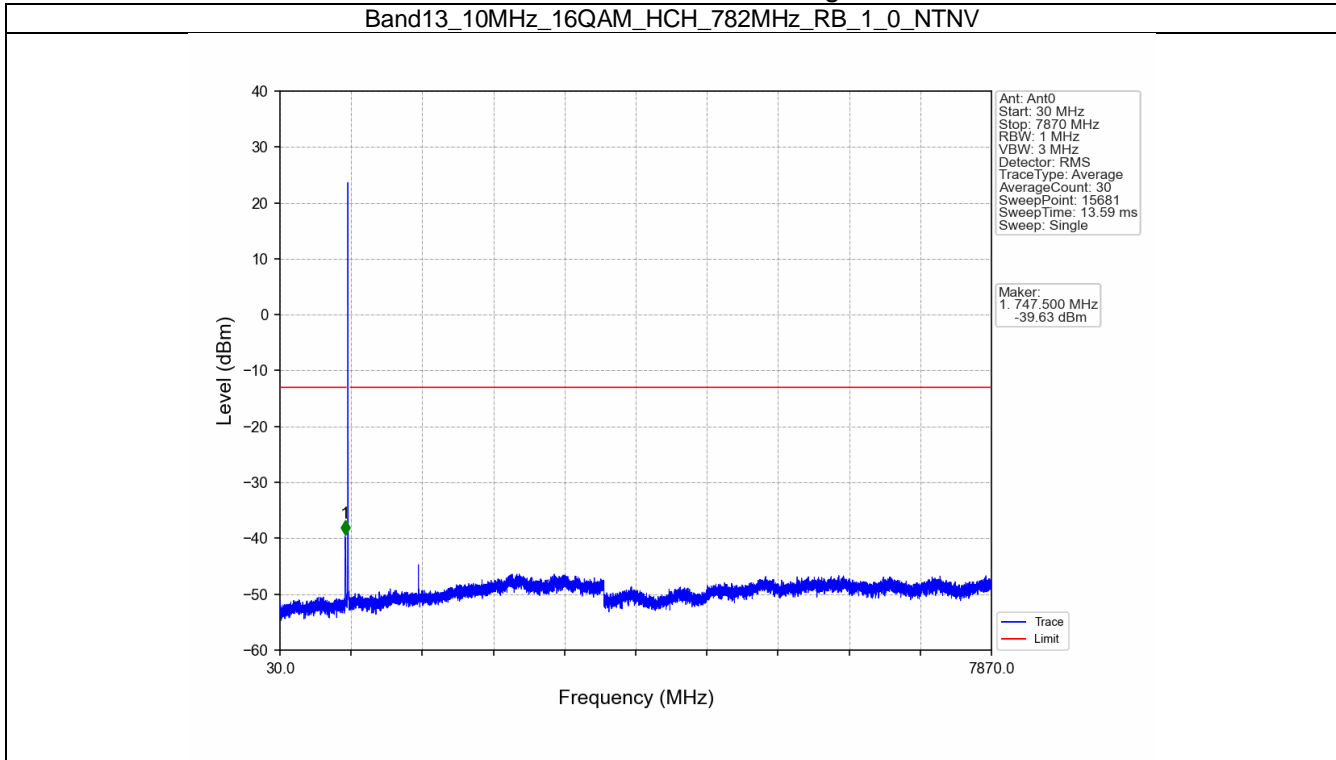


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Band13_10MHz_16QAM_HCH_782MHz_RB_1_0_NTNV

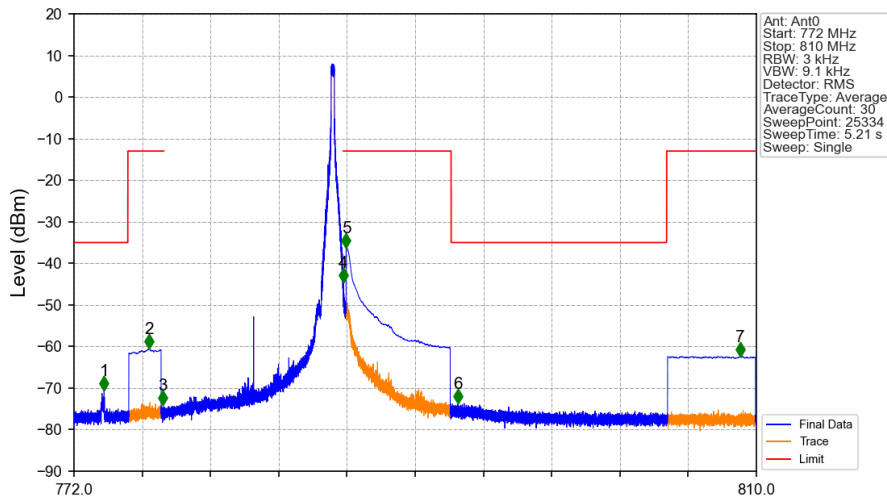


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Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.679	-70.56	-35	Pass
775	776.9	0.1	CHP	2	776.185	-60.56	-13	Pass
776.9	777	0.03	/	3	776.962	-74.11	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-44.68	-13	Pass
787.1	793	0.1	CHP	5	787.155	-36.26	-13	Pass
793	805	0.00625	/	6	793.363	-73.68	-35	Pass
805	810	0.1	CHP	7	809.082	-62.41	-13	Pass

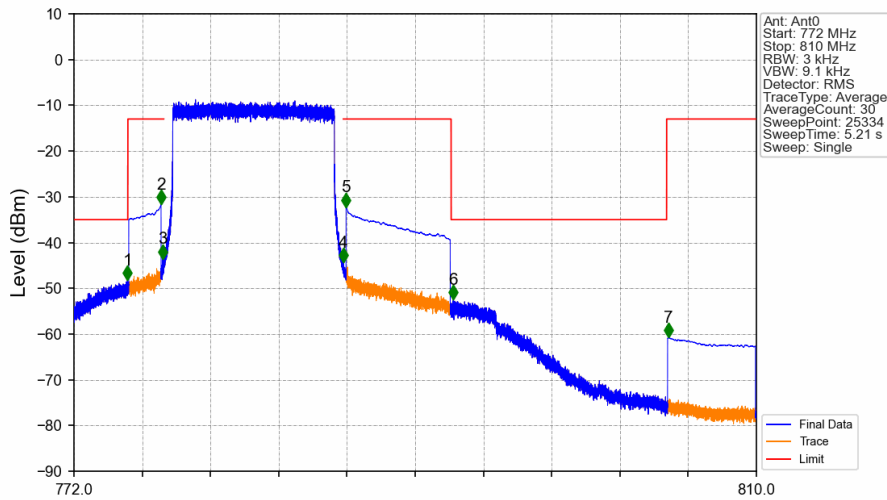


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Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.978	-49.16	-35	Pass
775	776.9	0.1	CHP	2	776.850	-31.66	-13	Pass
776.9	777	0.03	/	3	776.943	-43.55	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-44.28	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.26	-13	Pass
793	805	0.00625	/	6	793.120	-52.48	-35	Pass
805	810	0.1	CHP	7	805.108	-60.76	-13	Pass

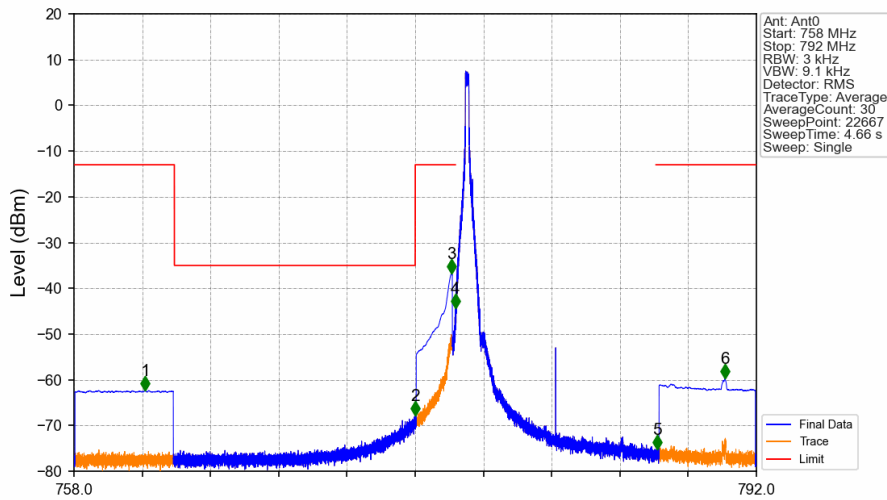


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Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.542	-62.36	-13	Pass
763	775	0.00625	/	2	774.995	-67.84	-35	Pass
775	776.9	0.1	CHP	3	776.802	-36.82	-13	Pass
776.9	777	0.03	/	4	776.997	-44.41	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.071	-75.25	-13	Pass
787.1	792	0.1	CHP	6	790.428	-59.75	-13	Pass

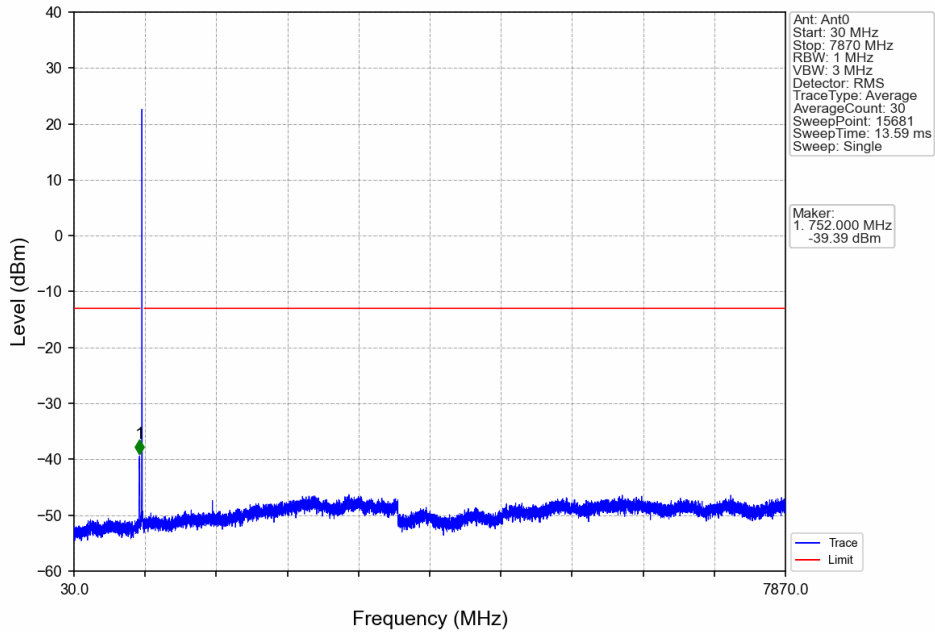


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Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV

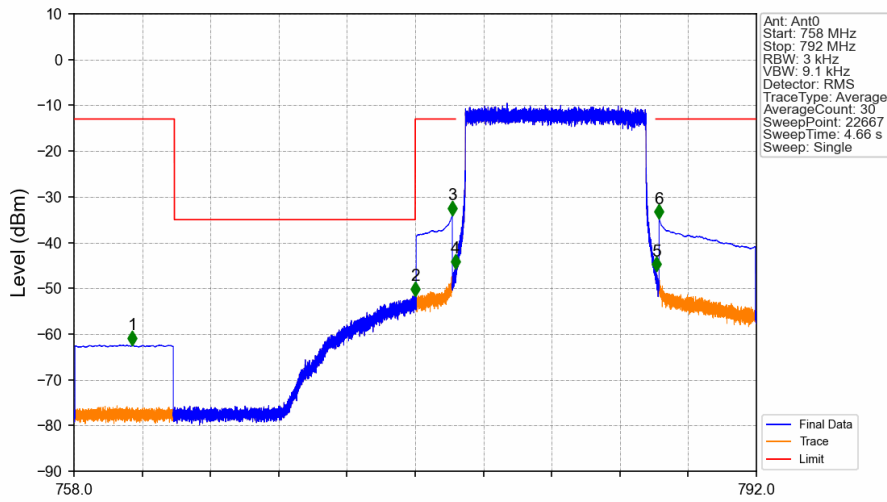


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Band13_10MHz_64QAM_LCH_782MHz_RB_50_0_NTNV



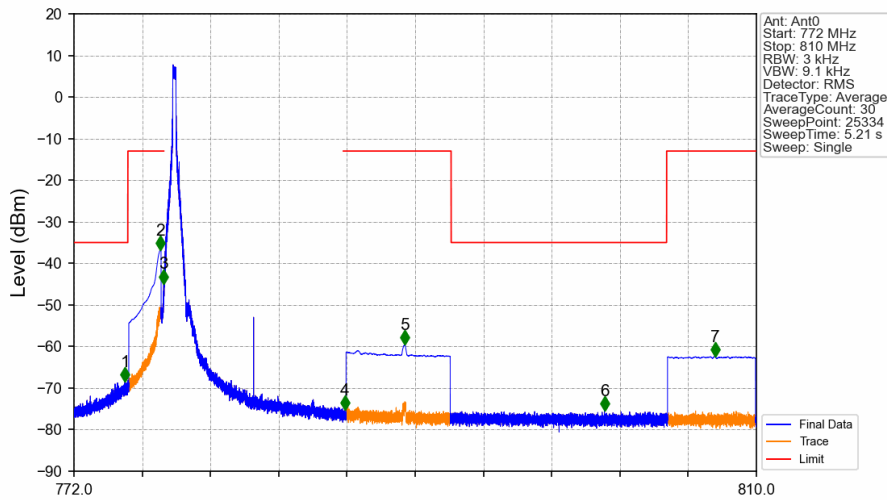
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.910	-62.42	-13	Pass
763	775	0.00625	/	2	774.991	-51.65	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.00	-13	Pass
776.9	777	0.03	/	4	777.000	-45.67	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.002	-46.27	-13	Pass
787.1	792	0.1	CHP	6	787.153	-34.85	-13	Pass



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Band13_10MHz_64QAM_MCH_782MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.838	-68.44	-35	Pass
775	776.9	0.1	CHP	2	776.812	-38.82	-13	Pass
776.9	777	0.03	/	3	776.997	-44.90	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.078	-75.31	-13	Pass
787.1	793	0.1	CHP	5	790.426	-59.58	-13	Pass
793	805	0.00625	/	6	801.537	-75.47	-35	Pass
805	810	0.1	CHP	7	807.696	-62.42	-13	Pass

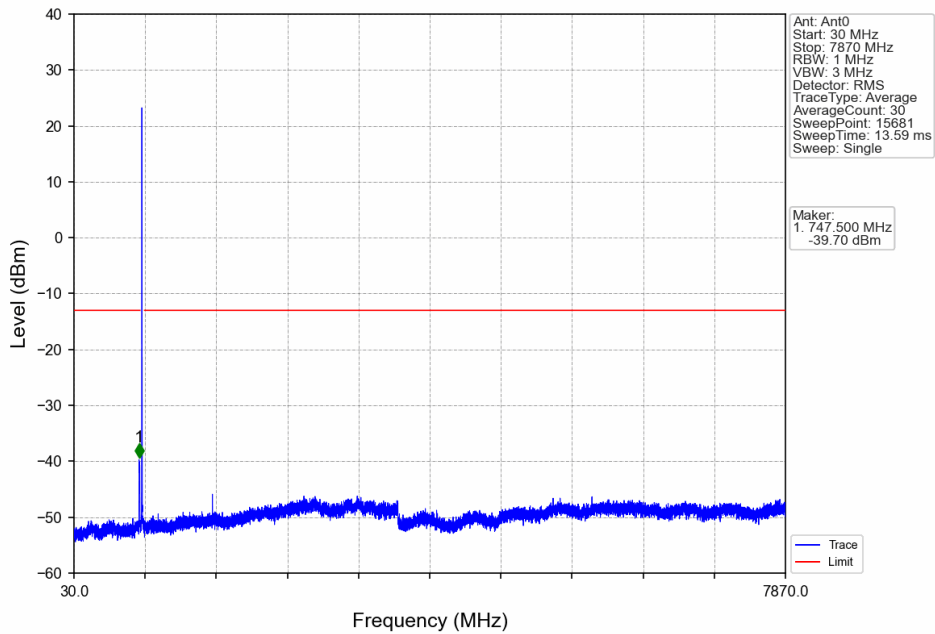


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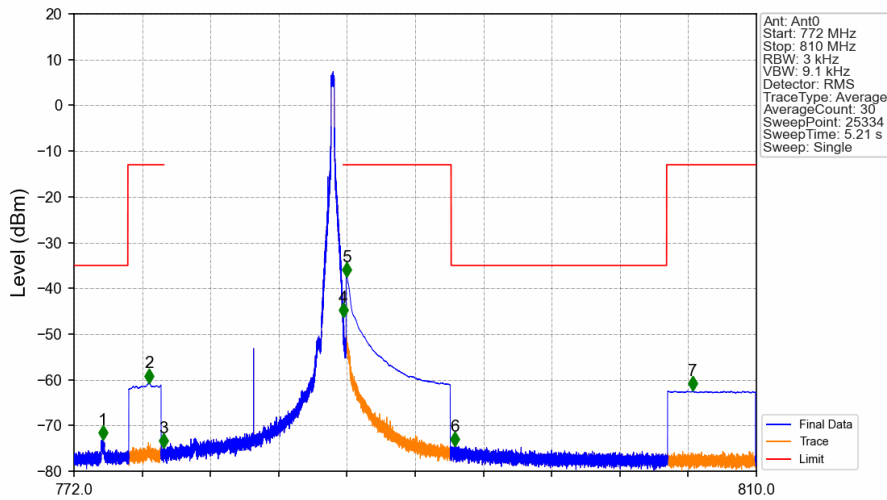


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Band13_10MHz_64QAM_MCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.604	-73.12	-35	Pass
775	776.9	0.1	CHP	2	776.196	-60.70	-13	Pass
776.9	777	0.03	/	3	776.970	-74.95	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.005	-46.33	-13	Pass
787.1	793	0.1	CHP	5	787.165	-37.52	-13	Pass
793	805	0.00625	/	6	793.200	-74.58	-35	Pass
805	810	0.1	CHP	7	806.454	-62.42	-13	Pass

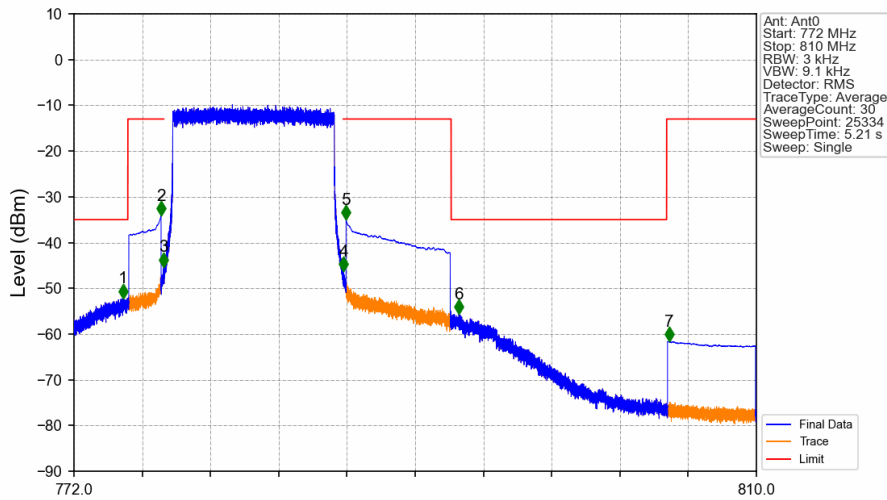


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Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.736	-52.18	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.14	-13	Pass
776.9	777	0.03	/	3	777.000	-45.29	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.015	-46.27	-13	Pass
787.1	793	0.1	CHP	5	787.150	-34.98	-13	Pass
793	805	0.00625	/	6	793.437	-55.62	-35	Pass
805	810	0.1	CHP	7	805.155	-61.65	-13	Pass

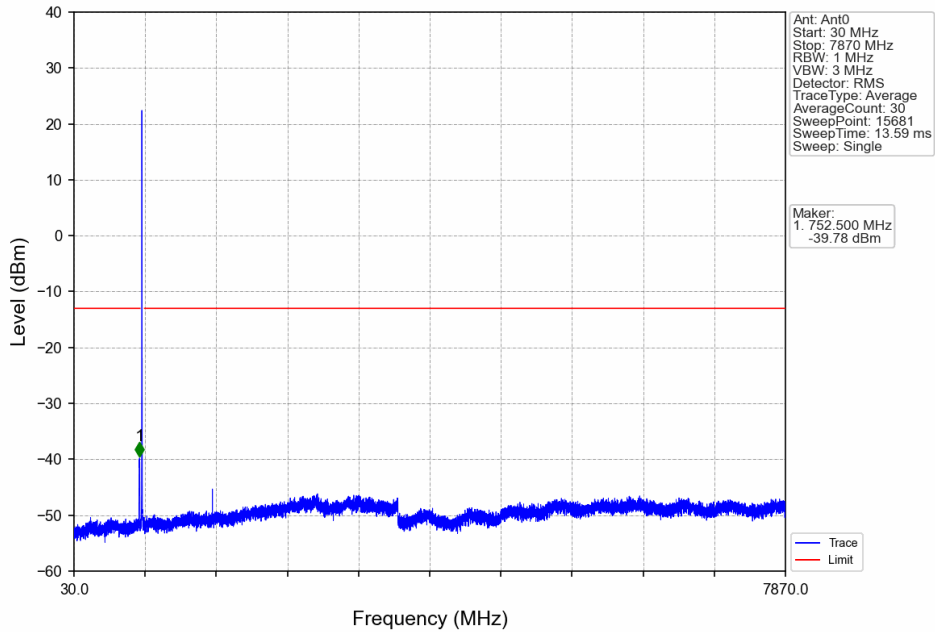


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Band13_10MHz_64QAM_HCH_782MHz_RB_1_0_NTNV

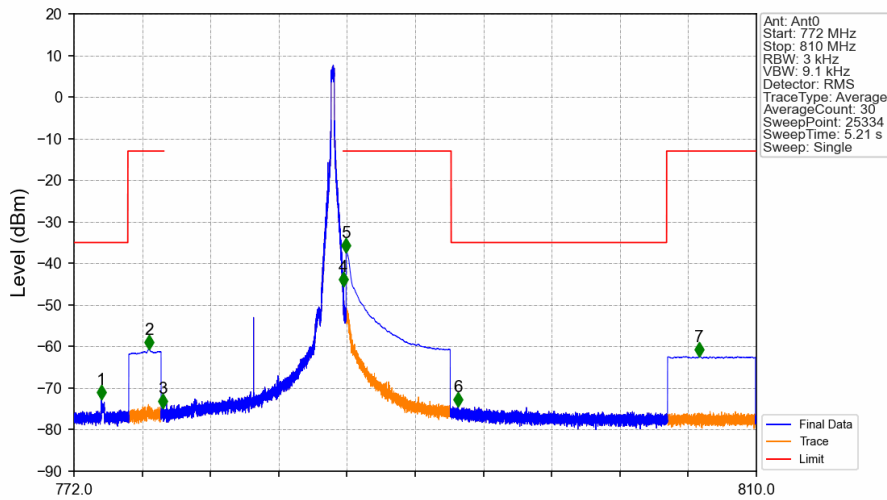


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Band13_10MHz_64QAM_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.526	-72.70	-35	Pass
775	776.9	0.1	CHP	2	776.179	-80.69	-13	Pass
776.9	777	0.03	/	3	776.925	-74.88	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-45.59	-13	Pass
787.1	793	0.1	CHP	5	787.152	-37.38	-13	Pass
793	805	0.00625	/	6	793.374	-74.47	-35	Pass
805	810	0.1	CHP	7	806.818	-62.40	-13	Pass

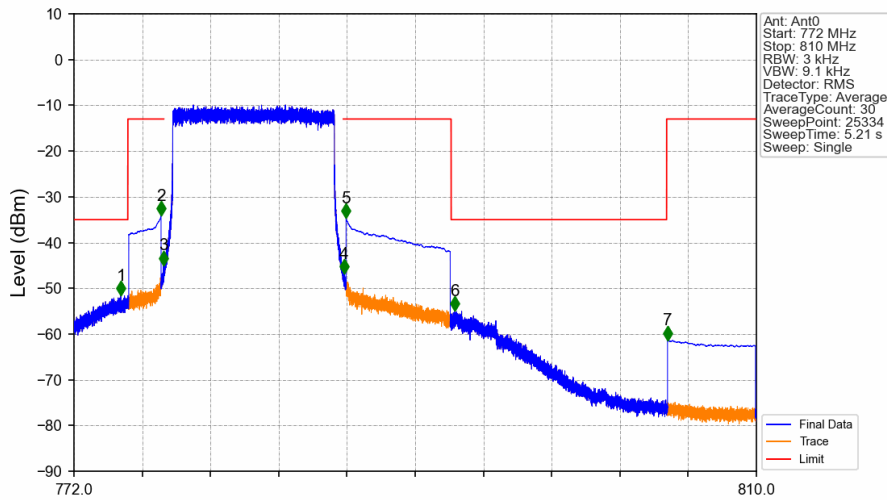


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Band13_10MHz_64QAM_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.612	-51.59	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.12	-13	Pass
776.9	777	0.03	/	3	776.985	-44.97	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.030	-46.77	-13	Pass
787.1	793	0.1	CHP	5	787.150	-34.69	-13	Pass
793	805	0.00625	/	6	793.209	-54.96	-35	Pass
805	810	0.1	CHP	7	805.051	-61.36	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 13 10M_ TM1

Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.18	45.47	-49.89	24.92	-74.75	-13.00	61.75	Horizontal
2	2332.77	44.86	-49.25	27.10	-72.55	-13.00	59.55	Horizontal
3	3110.36	44.53	-48.89	28.54	-71.07	-13.00	58.07	Horizontal
4	3887.95	43.18	-48.43	29.24	-71.26	-13.00	58.26	Horizontal
5	4665.54	44.42	-48.07	30.70	-68.21	-13.00	55.21	Horizontal
6	5443.13	43.09	-47.42	32.56	-67.02	-13.00	54.02	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.18	45.61	-49.89	24.92	-74.61	-13.00	61.61	Vertical
2	2332.77	44.84	-49.25	27.10	-72.57	-13.00	59.57	Vertical
3	3110.36	44.17	-48.89	28.54	-71.43	-13.00	58.43	Vertical
4	3887.95	44.27	-48.43	29.24	-70.17	-13.00	57.17	Vertical
5	4665.54	43.89	-48.07	30.70	-68.74	-13.00	55.74	Vertical
6	5443.13	43.82	-47.42	32.56	-66.29	-13.00	53.29	Vertical



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Test Band = LTE Band 13 5M_ TM1

Test Channel = Low Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.68	47.69	-49.89	24.92	-72.54	-13.00	59.54	Horizontal
2	2332.02	46.72	-49.24	27.10	-70.68	-13.00	57.68	Horizontal
3	3109.36	44.14	-48.89	28.54	-71.47	-13.00	58.47	Horizontal
4	3886.7	44.10	-48.43	29.24	-70.35	-13.00	57.35	Horizontal
5	4664.04	43.76	-48.07	30.69	-68.87	-13.00	55.87	Horizontal
6	5441.38	43.03	-47.42	32.56	-67.09	-13.00	54.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.68	45.66	-49.89	24.92	-74.57	-13.00	61.57	Vertical
2	2332.02	47.11	-49.24	27.10	-70.29	-13.00	57.29	Vertical
3	3109.36	44.28	-48.89	28.54	-71.33	-13.00	58.33	Vertical
4	3886.7	43.84	-48.43	29.24	-70.61	-13.00	57.61	Vertical
5	4664.04	43.34	-48.07	30.69	-69.29	-13.00	56.29	Vertical
6	5441.38	43.04	-47.42	32.56	-67.08	-13.00	54.08	Vertical



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Test Band = LTE Band 13 5M_ TM1
 Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.68	46.18	-49.89	24.94	-74.03	-40.00	34.03	Horizontal
2	2339.52	46.44	-49.27	27.11	-70.98	-13.00	57.98	Horizontal
3	3119.36	44.19	-48.86	28.55	-71.38	-13.00	58.38	Horizontal
4	3899.2	43.22	-48.43	29.26	-71.21	-13.00	58.21	Horizontal
5	4679.04	43.30	-48.07	30.73	-69.30	-13.00	56.30	Horizontal
6	5458.88	43.20	-47.41	32.60	-66.87	-13.00	53.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.68	45.53	-49.89	24.94	-74.68	-40.00	34.68	Vertical
2	2339.52	47.03	-49.27	27.11	-70.39	-13.00	57.39	Vertical
3	3119.36	43.52	-48.86	28.55	-72.05	-13.00	59.05	Vertical
4	3899.2	44.23	-48.43	29.26	-70.20	-13.00	57.20	Vertical
5	4679.04	43.58	-48.07	30.73	-69.02	-13.00	56.02	Vertical
6	5458.88	43.79	-47.41	32.60	-66.28	-13.00	53.28	Vertical



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Test Band = LTE Band 13 5M_ TM1
 Test Channel = High Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.68	45.32	-49.90	24.96	-74.88	-40.00	34.88	Horizontal
2	2347.02	45.01	-49.30	27.12	-72.43	-13.00	59.43	Horizontal
3	3129.36	43.98	-48.83	28.55	-71.56	-13.00	58.56	Horizontal
4	3911.7	44.05	-48.42	29.28	-70.35	-13.00	57.35	Horizontal
5	4694.04	43.40	-48.08	30.77	-69.17	-13.00	56.17	Horizontal
6	5476.38	43.28	-47.40	32.64	-66.74	-13.00	53.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.68	45.54	-49.90	24.96	-74.66	-40.00	34.66	Vertical
2	2347.02	45.34	-49.30	27.12	-72.10	-13.00	59.10	Vertical
3	3129.36	43.91	-48.83	28.55	-71.63	-13.00	58.63	Vertical
4	3911.7	44.59	-48.42	29.28	-69.81	-13.00	56.81	Vertical
5	4694.04	43.39	-48.08	30.77	-69.18	-13.00	56.18	Vertical
6	5476.38	43.39	-47.40	32.64	-66.63	-13.00	53.63	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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