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Appendix B.10

LTE Band 13



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B13_5MHz_ERP

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	23.70	-2.11	19.44	<=34.77	Pass
			13	23.70	-2.11	19.44	<=34.77	Pass
			24	23.68	-2.11	19.42	<=34.77	Pass
		12	0	22.64	-2.11	18.38	<=34.77	Pass
			6	22.63	-2.11	18.37	<=34.77	Pass
			13	22.60	-2.11	18.34	<=34.77	Pass
		25	0	22.63	-2.11	18.37	<=34.77	Pass
	782	1	0	23.68	-2.11	19.42	<=34.77	Pass
			13	23.66	-2.11	19.40	<=34.77	Pass
			24	23.69	-2.11	19.43	<=34.77	Pass
		12	0	22.68	-2.11	18.42	<=34.77	Pass
			6	22.63	-2.11	18.37	<=34.77	Pass
			13	22.62	-2.11	18.36	<=34.77	Pass
		25	0	22.70	-2.11	18.44	<=34.77	Pass
	784.5	1	0	23.71	-2.11	19.45	<=34.77	Pass
			13	23.71	-2.11	19.45	<=34.77	Pass
			24	23.69	-2.11	19.43	<=34.77	Pass
		12	0	22.65	-2.11	18.39	<=34.77	Pass
			6	22.65	-2.11	18.39	<=34.77	Pass
			13	22.73	-2.11	18.47	<=34.77	Pass
		25	0	22.71	-2.11	18.45	<=34.77	Pass
16QAM	779.5	1	0	22.57	-2.11	18.31	<=34.77	Pass
			13	22.55	-2.11	18.29	<=34.77	Pass
			24	22.55	-2.11	18.29	<=34.77	Pass
		12	0	21.66	-2.11	17.40	<=34.77	Pass
			6	21.63	-2.11	17.37	<=34.77	Pass
			13	21.59	-2.11	17.33	<=34.77	Pass
		25	0	21.68	-2.11	17.42	<=34.77	Pass
	782	1	0	22.97	-2.11	18.71	<=34.77	Pass
			13	22.94	-2.11	18.68	<=34.77	Pass
			24	22.98	-2.11	18.72	<=34.77	Pass
		12	0	21.73	-2.11	17.47	<=34.77	Pass
			6	21.69	-2.11	17.43	<=34.77	Pass
			13	21.68	-2.11	17.42	<=34.77	Pass
		25	0	21.67	-2.11	17.41	<=34.77	Pass
	784.5	1	0	22.85	-2.11	18.59	<=34.77	Pass
			13	22.85	-2.11	18.59	<=34.77	Pass
			24	22.83	-2.11	18.57	<=34.77	Pass
		12	0	21.64	-2.11	17.38	<=34.77	Pass
			0	21.64	-2.11	17.38	<=34.77	Pass



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			6	21.65	-2.11	17.39	<=34.77	Pass		
			13	21.70	-2.11	17.44	<=34.77	Pass		
		25	0	21.71	-2.11	17.45	<=34.77	Pass		
64QAM	779.5	1	0	21.68	-2.11	17.42	<=34.77	Pass		
			13	21.64	-2.11	17.38	<=34.77	Pass		
			24	21.64	-2.11	17.38	<=34.77	Pass		
		12	0	20.61	-2.11	16.35	<=34.77	Pass		
			6	20.56	-2.11	16.30	<=34.77	Pass		
			13	20.53	-2.11	16.27	<=34.77	Pass		
		25	0	20.63	-2.11	16.37	<=34.77	Pass		
		782	1	0	21.86	-2.11	17.60	<=34.77	Pass	
				13	21.86	-2.11	17.60	<=34.77	Pass	
	24			21.89	-2.11	17.63	<=34.77	Pass		
	12		0	20.72	-2.11	16.46	<=34.77	Pass		
			6	20.66	-2.11	16.40	<=34.77	Pass		
			13	20.63	-2.11	16.37	<=34.77	Pass		
	25		0	20.73	-2.11	16.47	<=34.77	Pass		
	784.5		1	0	21.88	-2.11	17.62	<=34.77	Pass	
				13	21.86	-2.11	17.60	<=34.77	Pass	
		24		21.87	-2.11	17.61	<=34.77	Pass		
		12	0	20.79	-2.11	16.53	<=34.77	Pass		
			6	20.78	-2.11	16.52	<=34.77	Pass		
			13	20.80	-2.11	16.54	<=34.77	Pass		
		25	0	20.68	-2.11	16.42	<=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	23.67	-2.11	19.41	<=34.77	Pass
			25	23.62	-2.11	19.36	<=34.77	Pass
			49	23.62	-2.11	19.36	<=34.77	Pass
		25	0	22.71	-2.11	18.45	<=34.77	Pass
			13	22.64	-2.11	18.38	<=34.77	Pass
			25	22.68	-2.11	18.42	<=34.77	Pass
		50	0	22.72	-2.11	18.46	<=34.77	Pass
16QAM	782	1	0	23.29	-2.11	19.03	<=34.77	Pass
			25	23.24	-2.11	18.98	<=34.77	Pass
			49	23.27	-2.11	19.01	<=34.77	Pass
		25	0	21.76	-2.11	17.50	<=34.77	Pass
			13	21.68	-2.11	17.42	<=34.77	Pass
			25	21.72	-2.11	17.46	<=34.77	Pass
		50	0	21.71	-2.11	17.45	<=34.77	Pass
64QAM	782	1	0	21.96	-2.11	17.70	<=34.77	Pass
			25	21.91	-2.11	17.65	<=34.77	Pass
			49	21.92	-2.11	17.66	<=34.77	Pass
		25	0	20.73	-2.11	16.47	<=34.77	Pass
			13	20.66	-2.11	16.40	<=34.77	Pass
			25	20.71	-2.11	16.45	<=34.77	Pass
		50	0	20.73	-2.11	16.47	<=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	1.531	0.0020	/	Pass
					3.87	0.869	0.0011	/	Pass
					4.45	1.685	0.0022	/	Pass
				-30	3.87	-2.905	-0.0037	/	Pass
				-20	3.87	-0.933	-0.0012	/	Pass
				-10	3.87	4.050	0.0052	/	Pass
				0	3.87	0.067	0.0001	/	Pass
				10	3.87	1.132	0.0015	/	Pass
				30	3.87	-3.055	-0.0039	/	Pass
				40	3.87	0.699	0.0009	/	Pass
				50	3.87	1.631	0.0021	/	Pass
	782	25	0	20	3.5	-2.304	-0.0029	/	Pass
					3.87	-1.135	-0.0015	/	Pass
					4.45	-1.432	-0.0018	/	Pass
				-30	3.87	-1.349	-0.0017	/	Pass
				-20	3.87	3.441	0.0044	/	Pass
				-10	3.87	0.017	0.0000	/	Pass
				0	3.87	-3.068	-0.0039	/	Pass
				10	3.87	0.214	0.0003	/	Pass
				30	3.87	1.018	0.0013	/	Pass
				40	3.87	-3.270	-0.0042	/	Pass
				50	3.87	-1.257	-0.0016	/	Pass
	784.5	25	0	20	3.5	1.270	0.0016	/	Pass
					3.87	1.129	0.0014	/	Pass
					4.45	-1.027	-0.0013	/	Pass
				-30	3.87	-2.613	-0.0033	/	Pass
				-20	3.87	-1.485	-0.0019	/	Pass
				-10	3.87	-2.204	-0.0028	/	Pass
				0	3.87	-2.741	-0.0035	/	Pass
				10	3.87	0.565	0.0007	/	Pass
				30	3.87	0.458	0.0006	/	Pass
				40	3.87	-4.446	-0.0057	/	Pass
				50	3.87	-0.962	-0.0012	/	Pass
16QAM	779.5	25	0	20	3.5	-0.562	-0.0007	/	Pass
					3.87	-0.107	-0.0001	/	Pass
					4.45	-1.419	-0.0018	/	Pass
				-30	3.87	3.352	0.0043	/	Pass
				-20	3.87	-0.742	-0.0010	/	Pass
				-10	3.87	0.897	0.0012	/	Pass



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64QAM	782	25	0	0	3.87	-2.071	-0.0027	/	Pass
				10	3.87	-1.166	-0.0015	/	Pass
				30	3.87	4.177	0.0054	/	Pass
				40	3.87	0.250	0.0003	/	Pass
				50	3.87	-0.752	-0.0010	/	Pass
				20	3.5	-2.308	-0.0030	/	Pass
					3.87	4.896	0.0063	/	Pass
					4.45	3.128	0.0040	/	Pass
				-30	3.87	1.902	0.0024	/	Pass
				-20	3.87	-3.093	-0.0040	/	Pass
				-10	3.87	-3.342	-0.0043	/	Pass
				0	3.87	1.996	0.0026	/	Pass
				10	3.87	0.538	0.0007	/	Pass
				30	3.87	-3.662	-0.0047	/	Pass
				40	3.87	1.344	0.0017	/	Pass
				50	3.87	2.510	0.0032	/	Pass
	784.5	25	0	20	3.5	-2.340	-0.0030	/	Pass
					3.87	-2.372	-0.0030	/	Pass
					4.45	-1.878	-0.0024	/	Pass
				-30	3.87	-2.789	-0.0036	/	Pass
				-20	3.87	0.135	0.0002	/	Pass
				-10	3.87	-2.297	-0.0029	/	Pass
				0	3.87	0.540	0.0007	/	Pass
				10	3.87	-1.158	-0.0015	/	Pass
				30	3.87	4.164	0.0053	/	Pass
				40	3.87	-2.534	-0.0032	/	Pass
				50	3.87	-1.245	-0.0016	/	Pass
	779.5	25	0	20	3.5	-1.494	-0.0019	/	Pass
					3.87	2.719	0.0035	/	Pass
					4.45	0.836	0.0011	/	Pass
				-30	3.87	-1.970	-0.0025	/	Pass
				-20	3.87	-0.269	-0.0003	/	Pass
				-10	3.87	0.619	0.0008	/	Pass
				0	3.87	-0.091	-0.0001	/	Pass
				10	3.87	0.251	0.0003	/	Pass
				30	3.87	-2.700	-0.0035	/	Pass
				40	3.87	0.431	0.0006	/	Pass
				50	3.87	-1.454	-0.0019	/	Pass
	782	25	0	20	3.5	0.392	0.0005	/	Pass
					3.87	1.089	0.0014	/	Pass
					4.45	0.497	0.0006	/	Pass
				-30	3.87	-1.160	-0.0015	/	Pass
				-20	3.87	2.260	0.0029	/	Pass
				-10	3.87	-2.237	-0.0029	/	Pass
				0	3.87	4.500	0.0058	/	Pass
				10	3.87	-1.406	-0.0018	/	Pass
				30	3.87	0.298	0.0004	/	Pass
				40	3.87	0.792	0.0010	/	Pass
				50	3.87	0.895	0.0011	/	Pass



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	784.5	25	0	20	3.5	-0.429	-0.0005	/	Pass
					3.87	1.533	0.0020	/	Pass
					4.45	1.360	0.0017	/	Pass
				-30	3.87	-1.422	-0.0018	/	Pass
				-20	3.87	1.279	0.0016	/	Pass
				-10	3.87	-4.073	-0.0052	/	Pass
				0	3.87	-2.865	-0.0037	/	Pass
				10	3.87	-5.455	-0.0070	/	Pass
				30	3.87	-0.581	-0.0007	/	Pass
				40	3.87	-1.684	-0.0021	/	Pass
				50	3.87	-1.627	-0.0021	/	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	-2.402	-0.0031	/	Pass
					3.87	-0.521	-0.0007	/	Pass
					4.45	-0.156	-0.0002	/	Pass
				-30	3.87	1.151	0.0015	/	Pass
				-20	3.87	-1.694	-0.0022	/	Pass
				-10	3.87	-1.461	-0.0019	/	Pass
				0	3.87	-2.086	-0.0027	/	Pass
				10	3.87	1.992	0.0025	/	Pass
				30	3.87	-2.551	-0.0033	/	Pass
				40	3.87	-0.357	-0.0005	/	Pass
				50	3.87	-4.395	-0.0056	/	Pass
16QAM	782	50	0	20	3.5	-1.290	-0.0016	/	Pass
					3.87	-0.918	-0.0012	/	Pass
					4.45	-0.020	0.0000	/	Pass
				-30	3.87	-2.249	-0.0029	/	Pass
				-20	3.87	-2.259	-0.0029	/	Pass
				-10	3.87	-1.271	-0.0016	/	Pass
				0	3.87	2.975	0.0038	/	Pass
				10	3.87	-1.796	-0.0023	/	Pass
				30	3.87	-2.475	-0.0032	/	Pass
				40	3.87	0.875	0.0011	/	Pass
				50	3.87	2.431	0.0031	/	Pass
64QAM	782	50	0	20	3.5	-2.386	-0.0031	/	Pass
					3.87	-2.519	-0.0032	/	Pass
					4.45	0.645	0.0008	/	Pass
				-30	3.87	2.325	0.0030	/	Pass
				-20	3.87	-1.604	-0.0021	/	Pass
				-10	3.87	0.247	0.0003	/	Pass
				0	3.87	-0.649	-0.0008	/	Pass
				10	3.87	-0.031	0.0000	/	Pass
				30	3.87	0.672	0.0009	/	Pass
				40	3.87	2.631	0.0034	/	Pass
				50	3.87	-0.161	-0.0002	/	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	4.534	/	Pass
		782	25	0	4.556	/	Pass
		784.5	25	0	4.567	/	Pass
	16QAM	779.5	25	0	4.553	/	Pass
		782	25	0	4.550	/	Pass
		784.5	25	0	4.552	/	Pass
	64QAM	779.5	25	0	4.547	/	Pass
		782	25	0	4.549	/	Pass
		784.5	25	0	4.551	/	Pass
10	QPSK	782	50	0	9.082	/	Pass
	16QAM	782	50	0	9.084	/	Pass
	64QAM	782	50	0	9.071	/	Pass

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	5.029	/	Pass
		782	25	0	5.076	/	Pass
		784.5	25	0	5.028	/	Pass
	16QAM	779.5	25	0	5.030	/	Pass
		782	25	0	5.058	/	Pass
		784.5	25	0	5.045	/	Pass
	64QAM	779.5	25	0	5.049	/	Pass
		782	25	0	5.059	/	Pass
		784.5	25	0	5.061	/	Pass
10	QPSK	782	50	0	9.971	/	Pass
	16QAM	782	50	0	10.045	/	Pass
	64QAM	782	50	0	9.996	/	Pass



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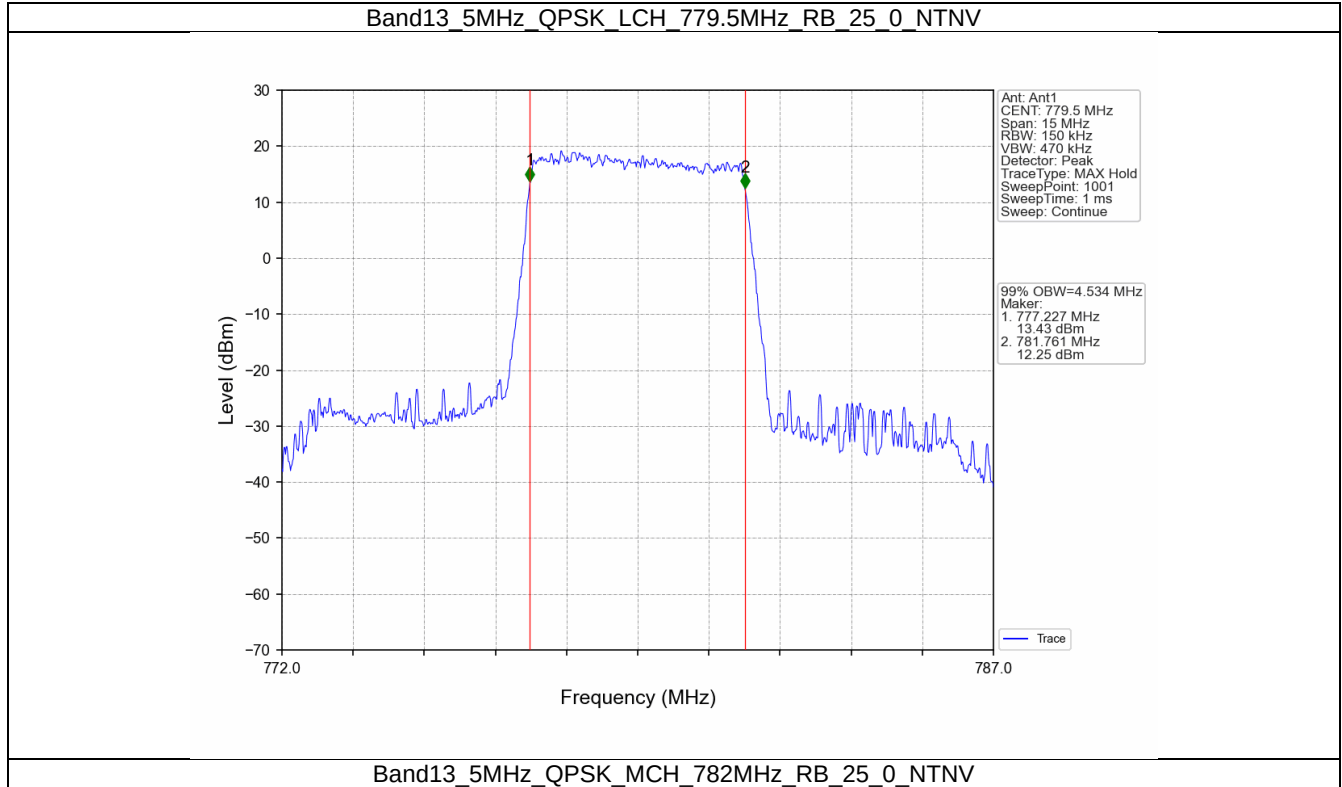
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3.1 Band13_OBW

3.1.2 Test Graph



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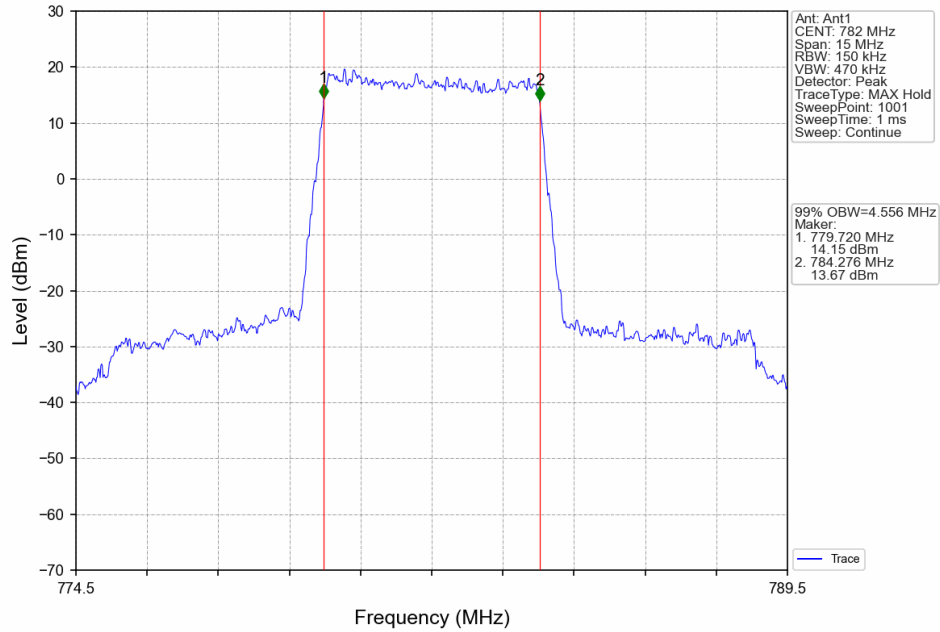
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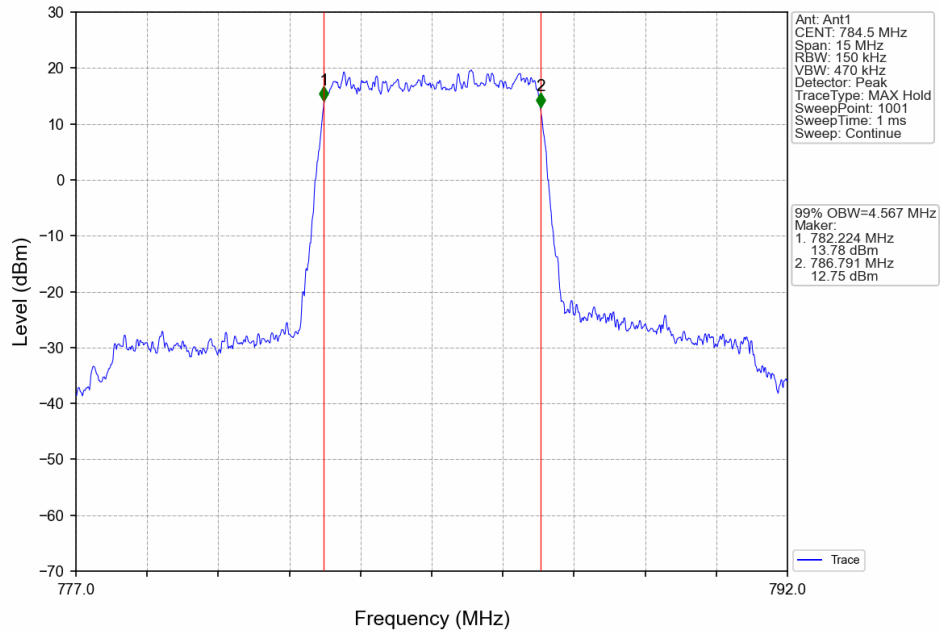
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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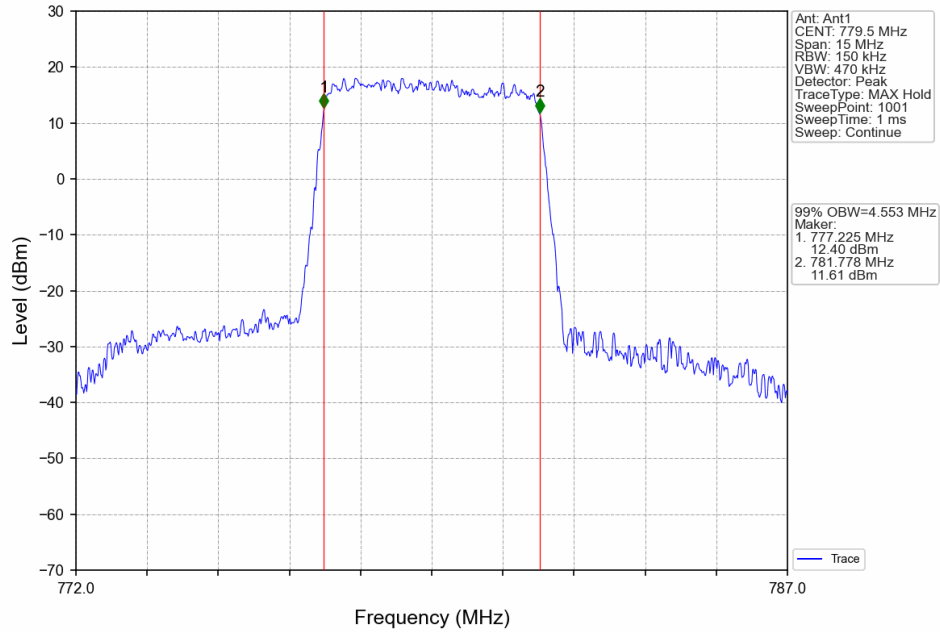
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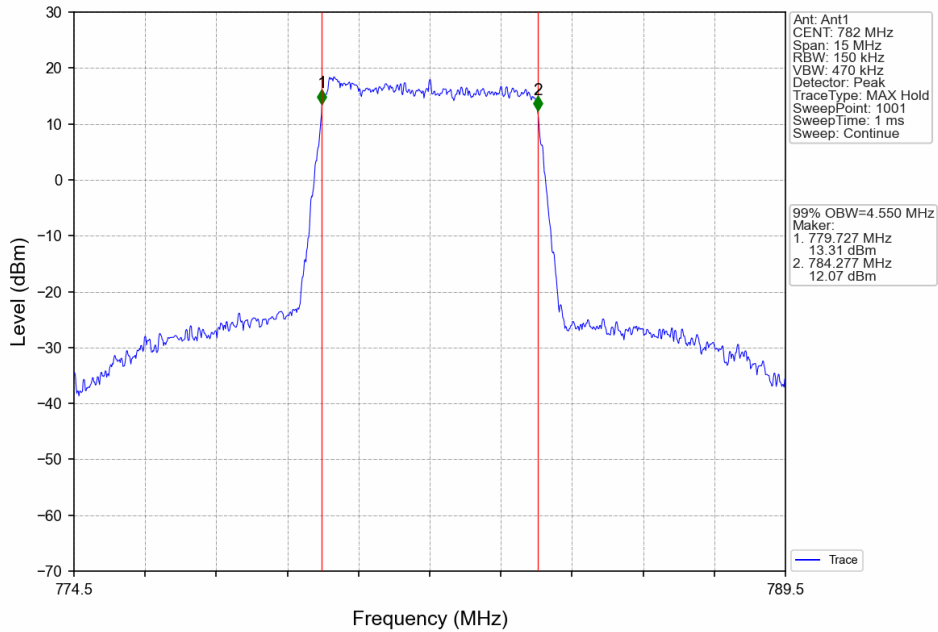
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Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



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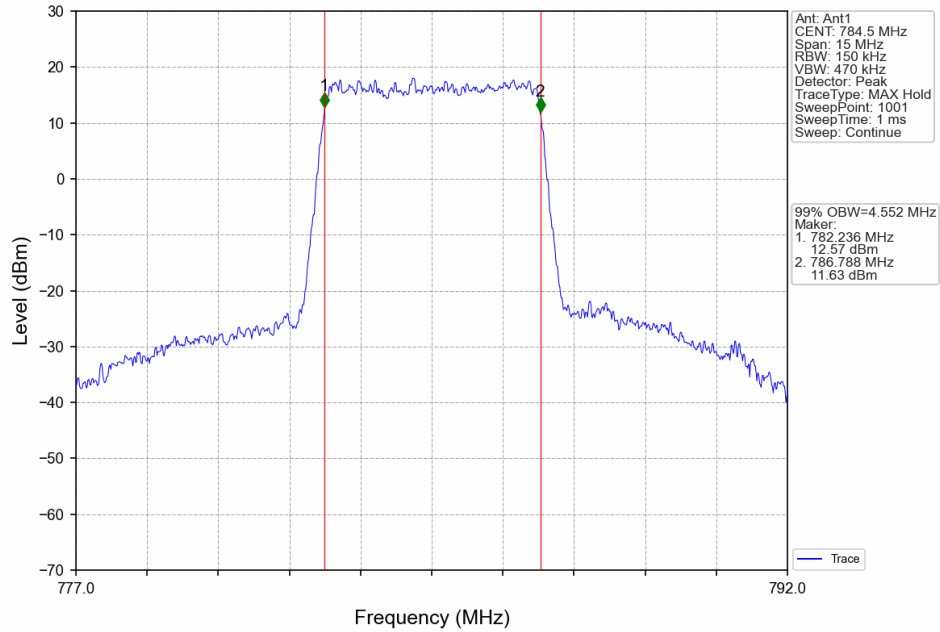
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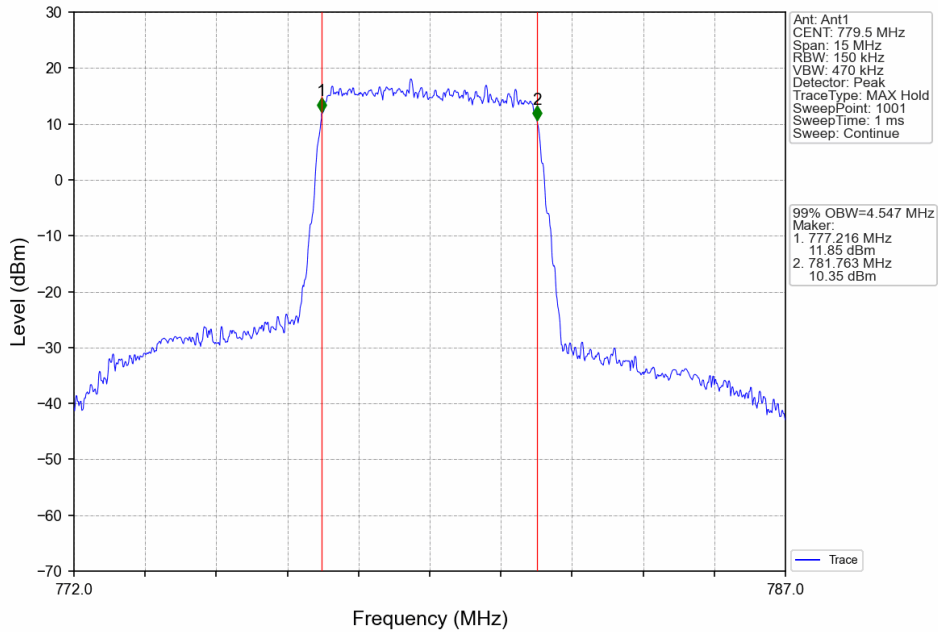
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Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



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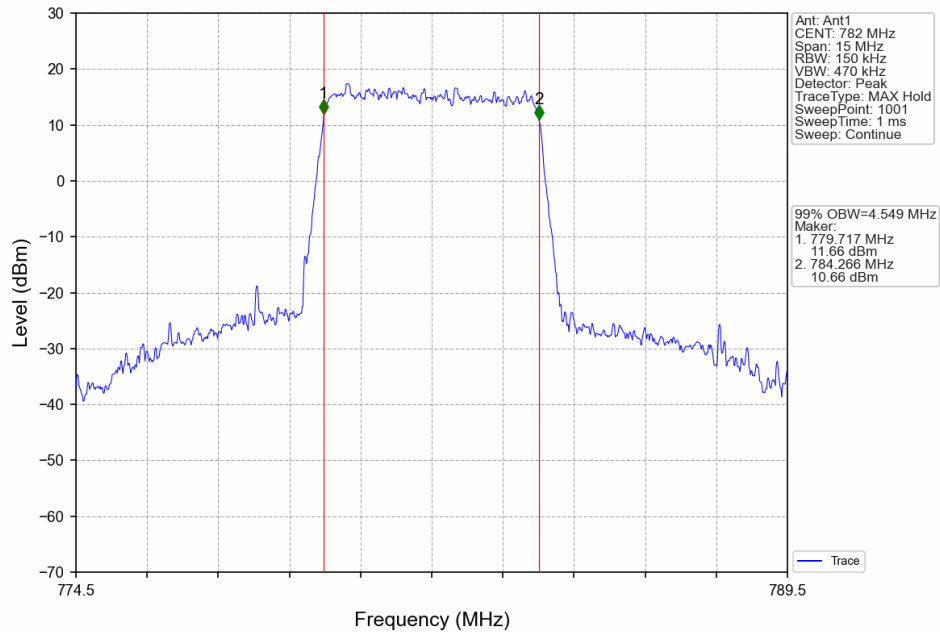
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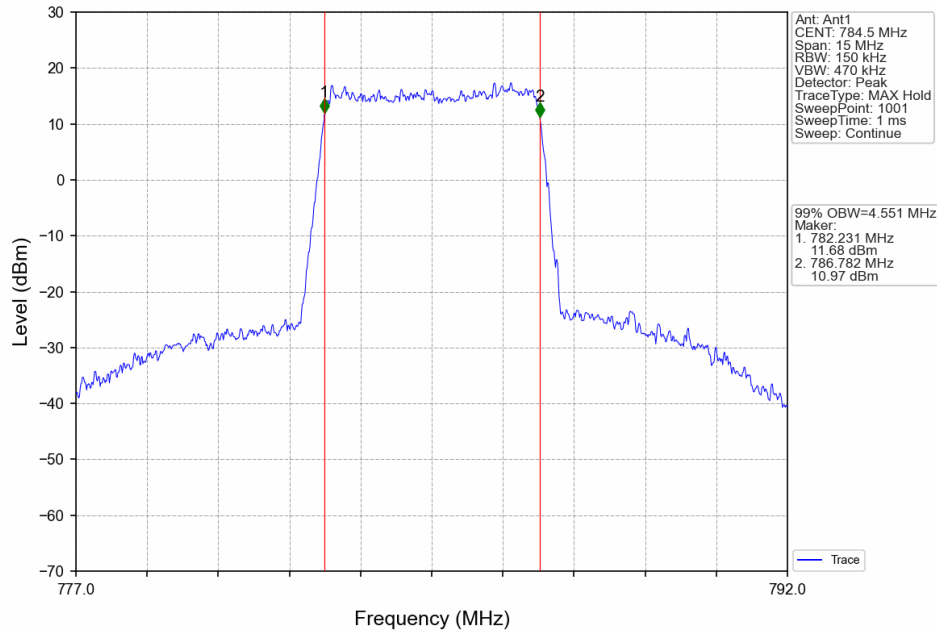
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Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



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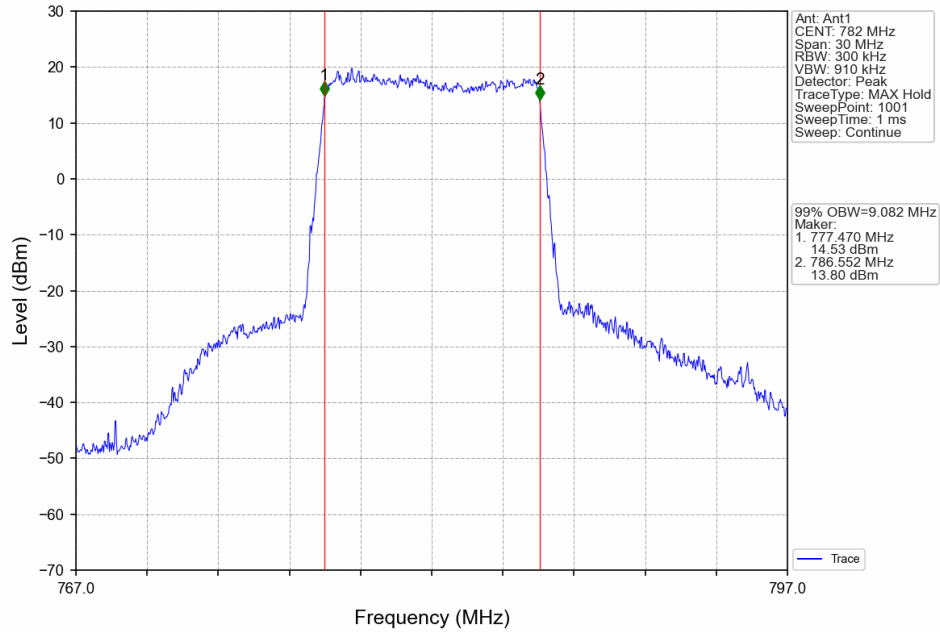
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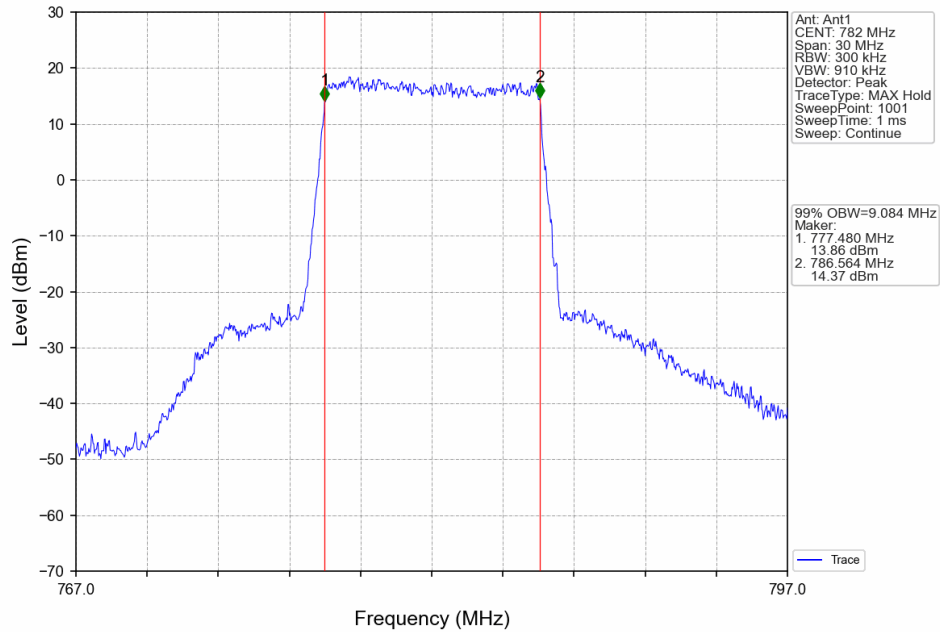
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Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



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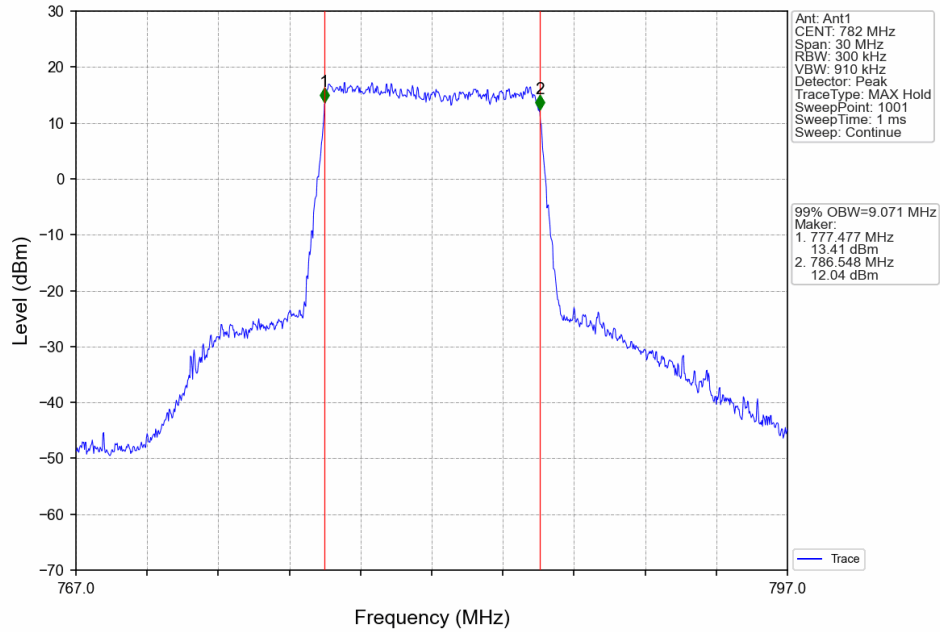
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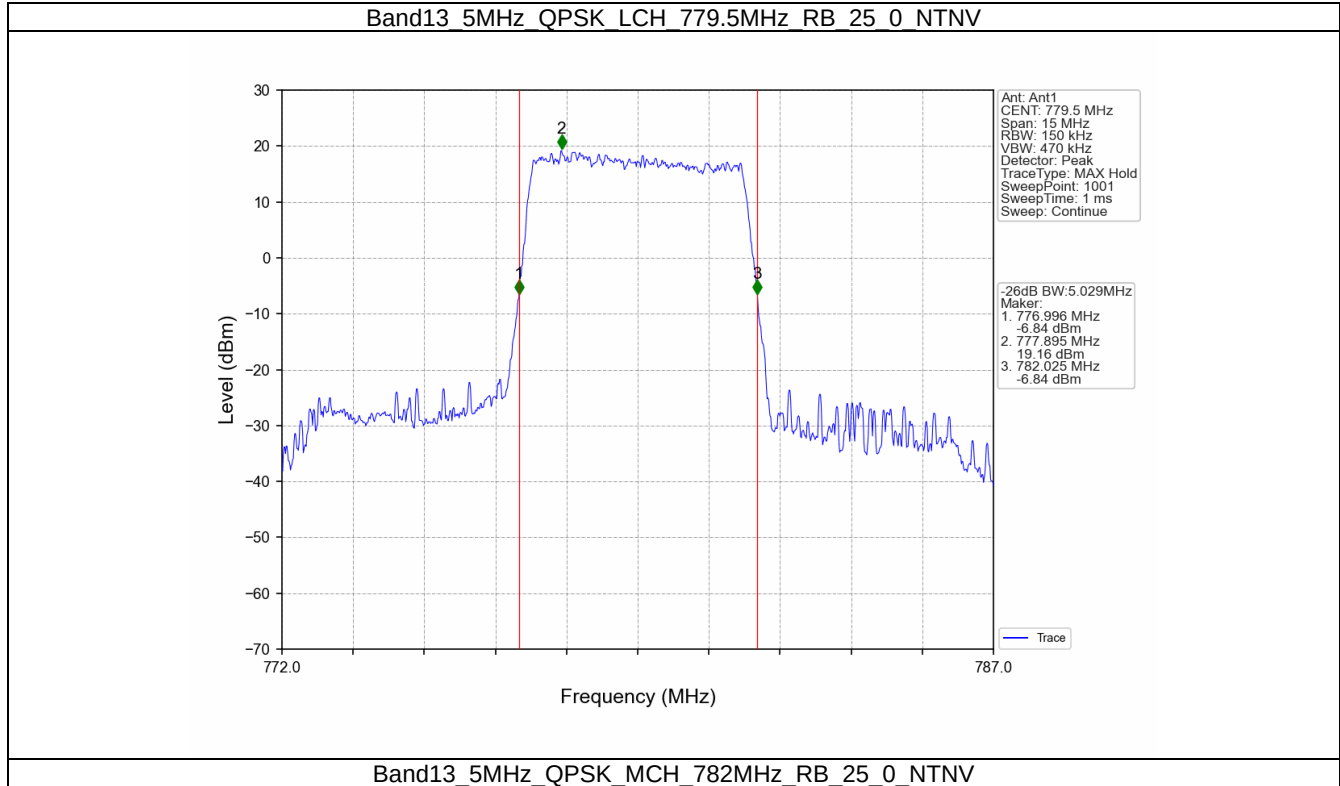
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3.2 Band13_XDB

3.2.2 Test Graph



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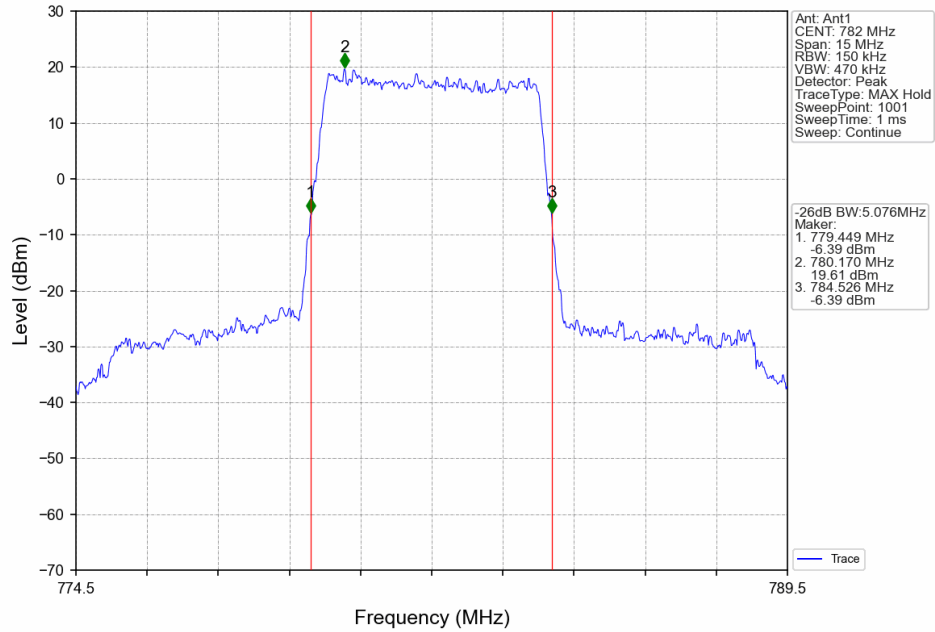
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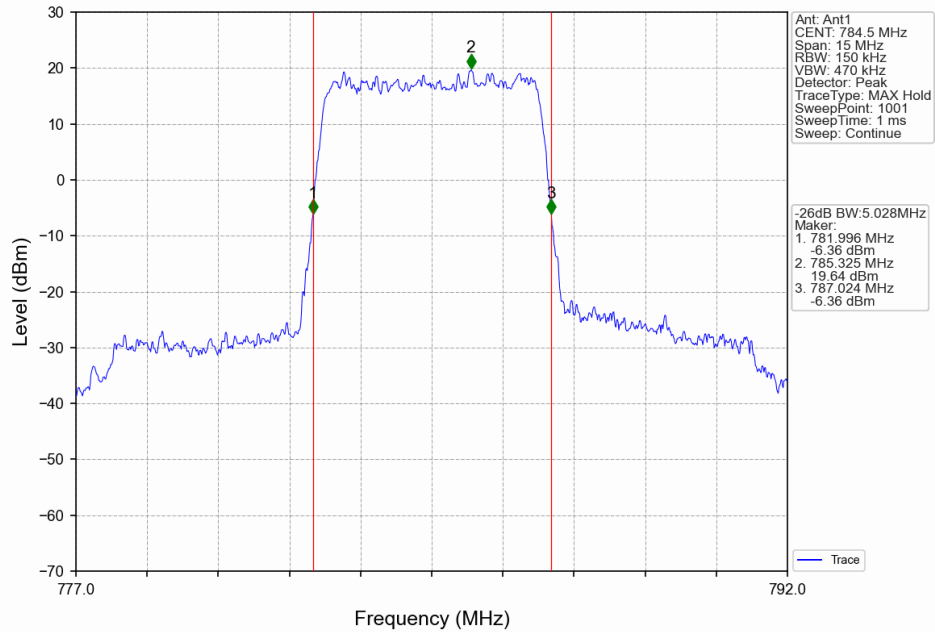
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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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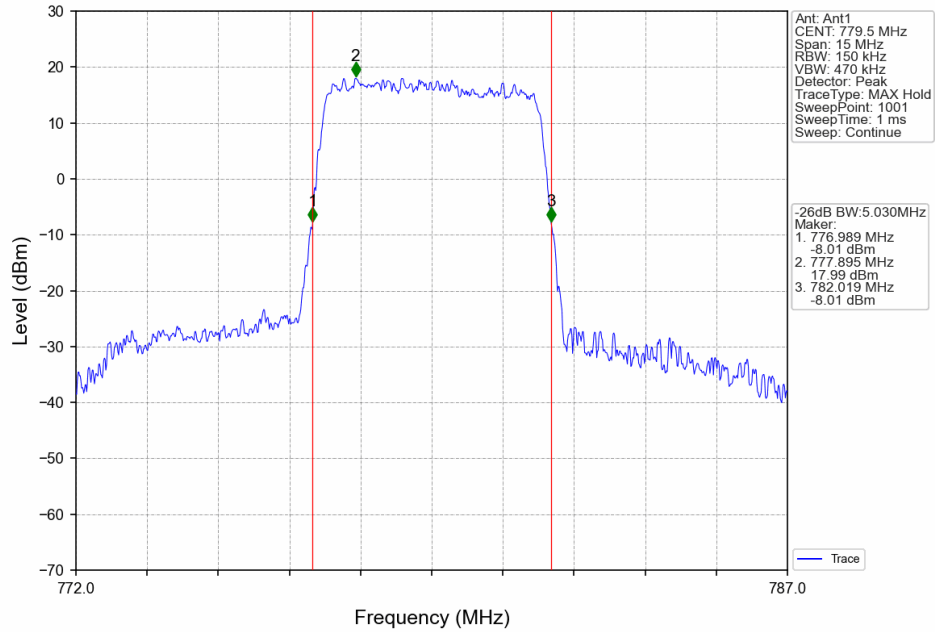
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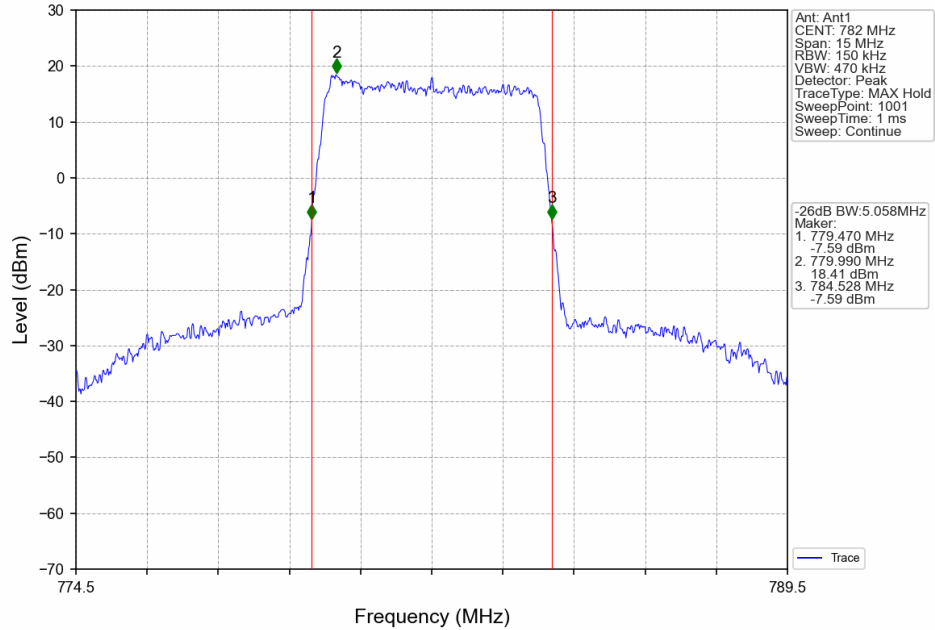
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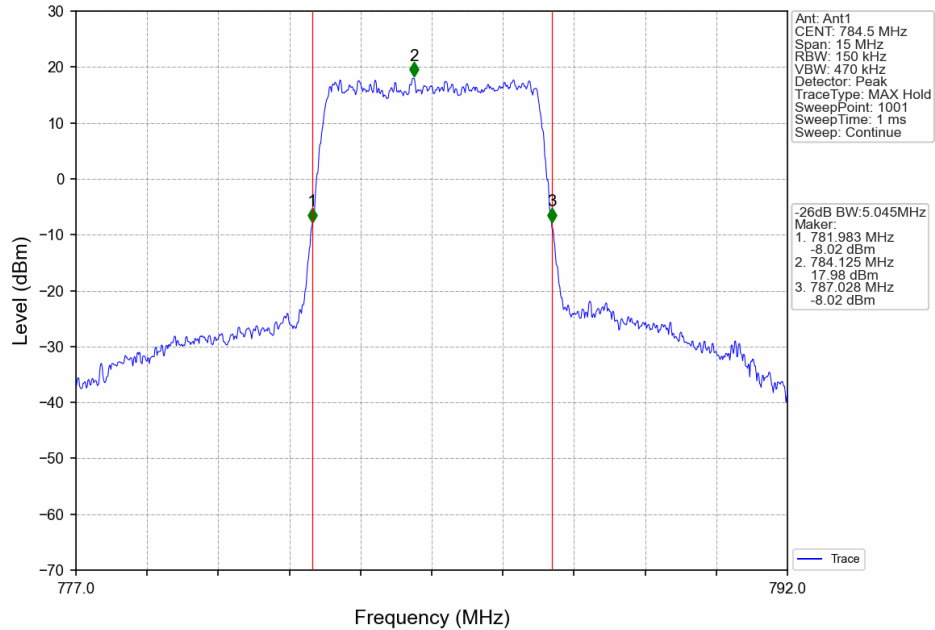
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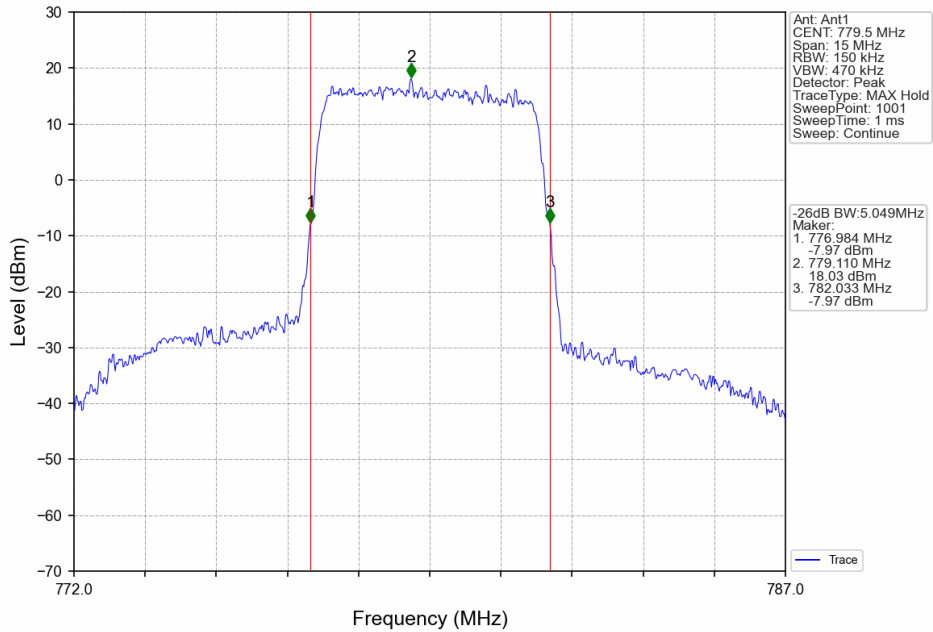
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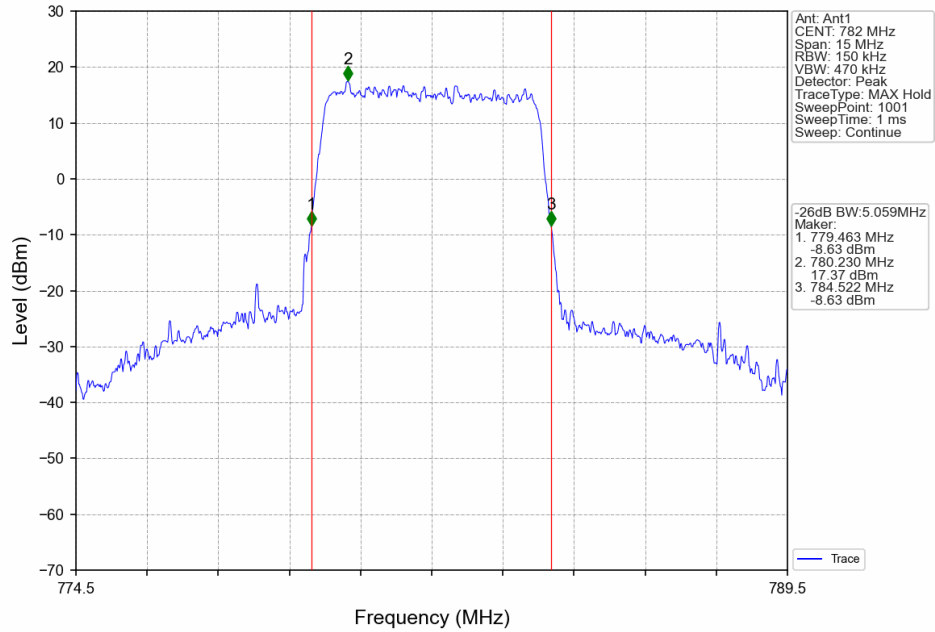
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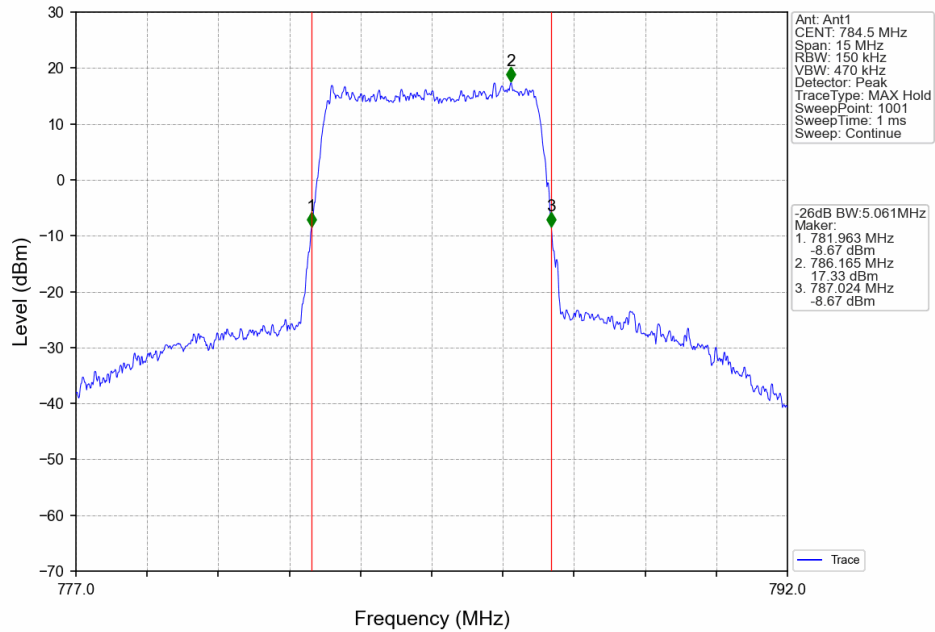
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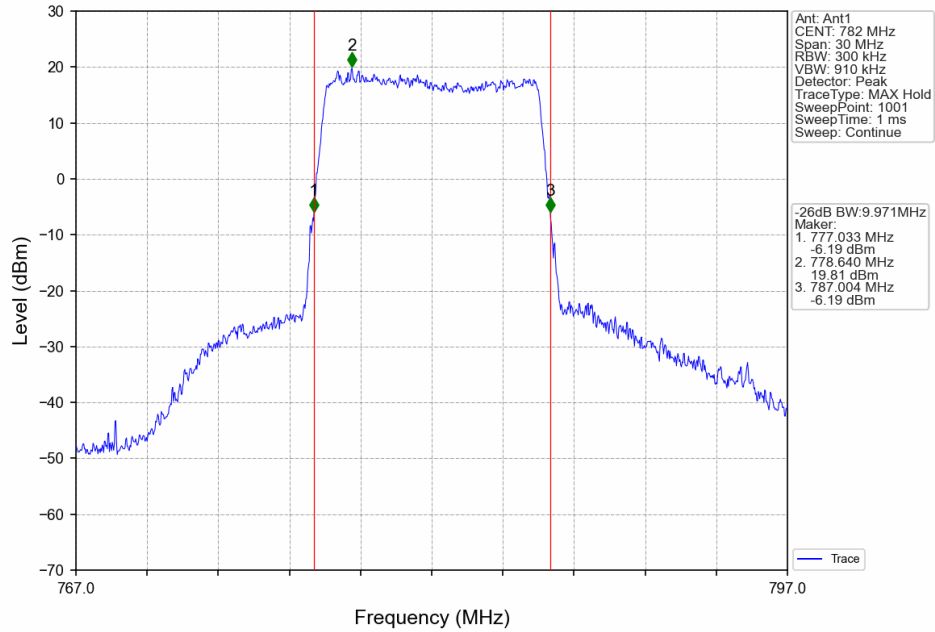
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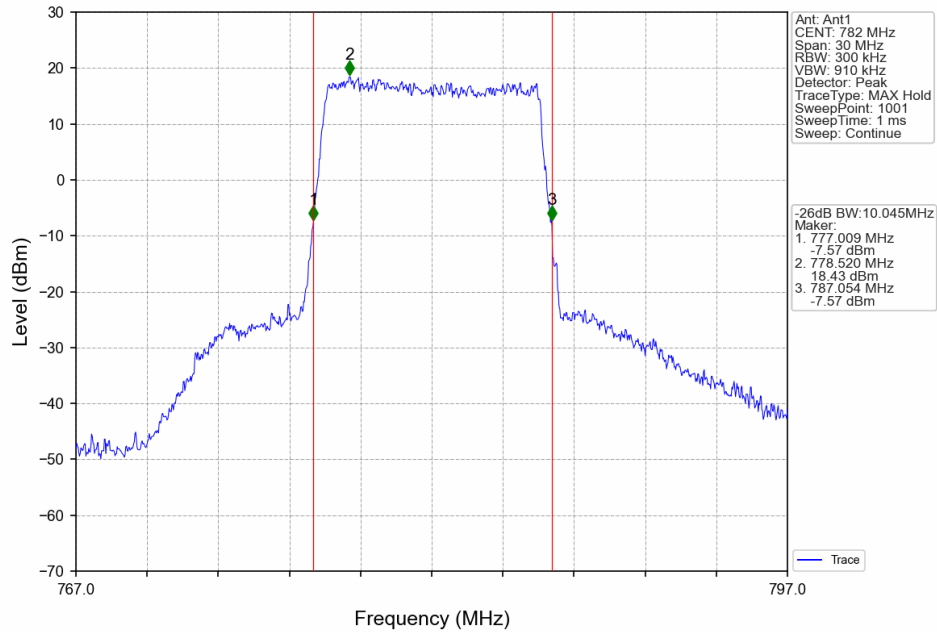
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Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



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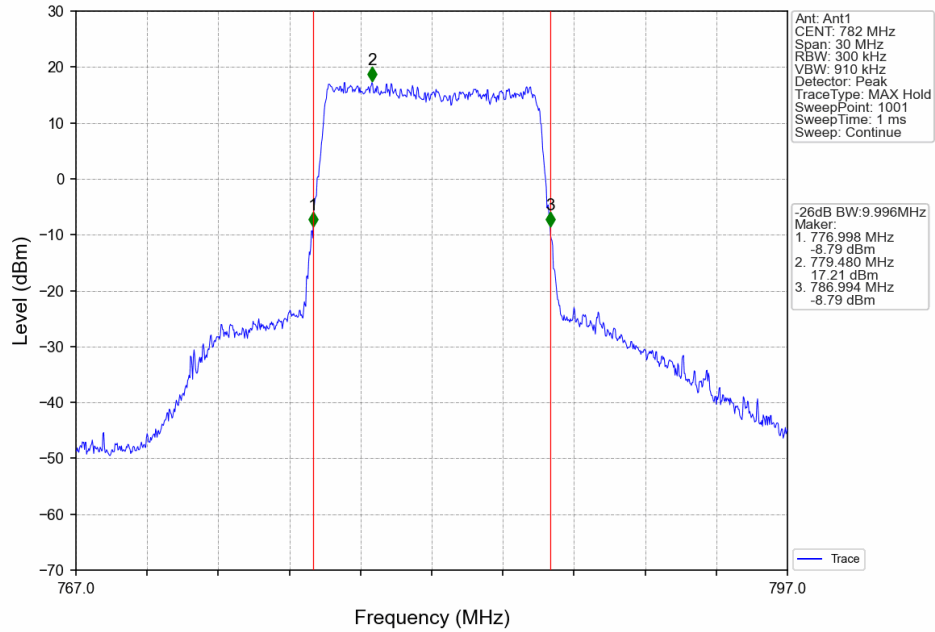
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4. Peak-Average Ratio

4.1 B13_5MHz

4.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.71	<=13	Pass
	782	25	0	5.90	<=13	Pass
	784.5	25	0	6.02	<=13	Pass
16QAM	779.5	25	0	6.40	<=13	Pass
	782	25	0	6.59	<=13	Pass
	784.5	25	0	6.60	<=13	Pass
64QAM	779.5	25	0	6.62	<=13	Pass
	782	25	0	6.73	<=13	Pass
	784.5	25	0	6.71	<=13	Pass

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	5.90	<=13	Pass
16QAM	782	50	0	6.55	<=13	Pass
64QAM	782	50	0	6.72	<=13	Pass



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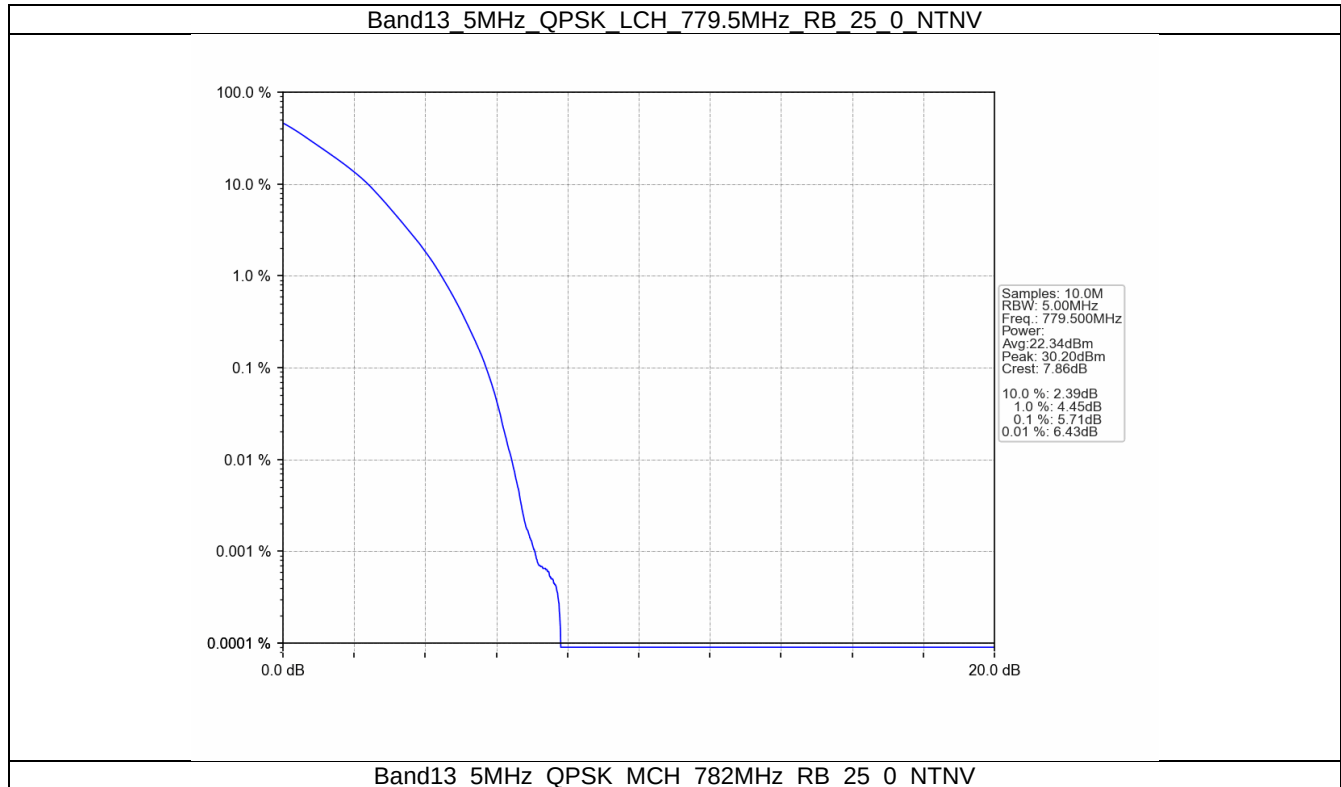
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4.1 B13_5MHz

4.1.2 Test Graph



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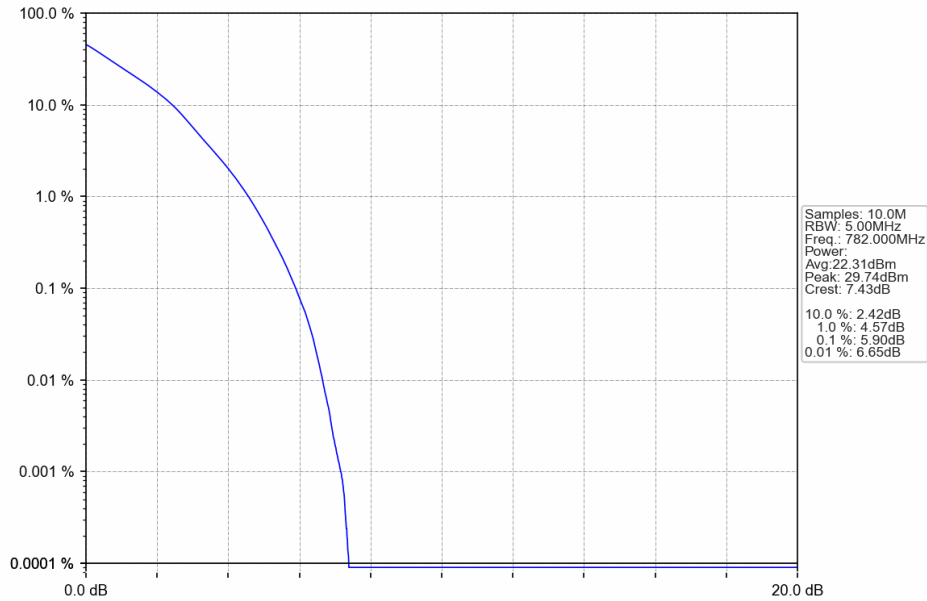
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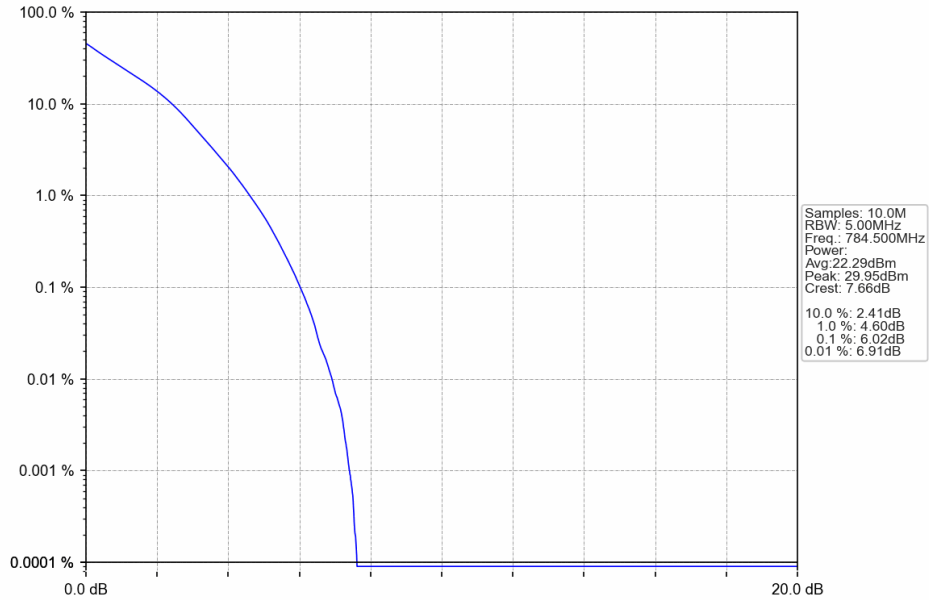
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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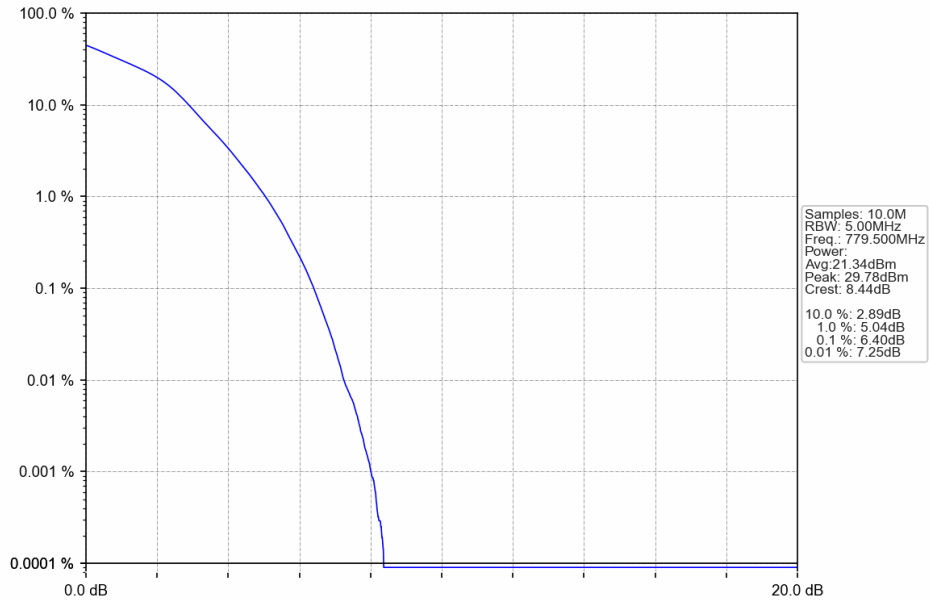
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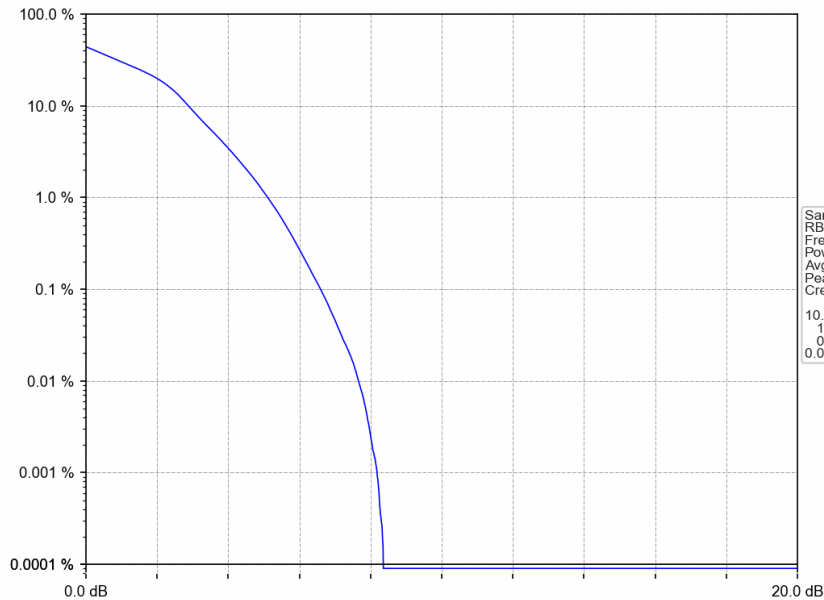
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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



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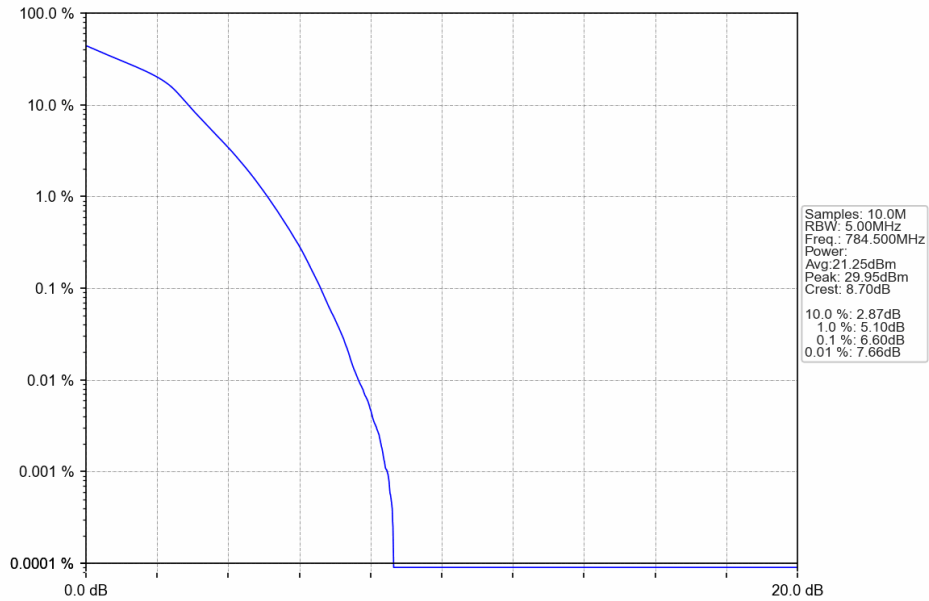
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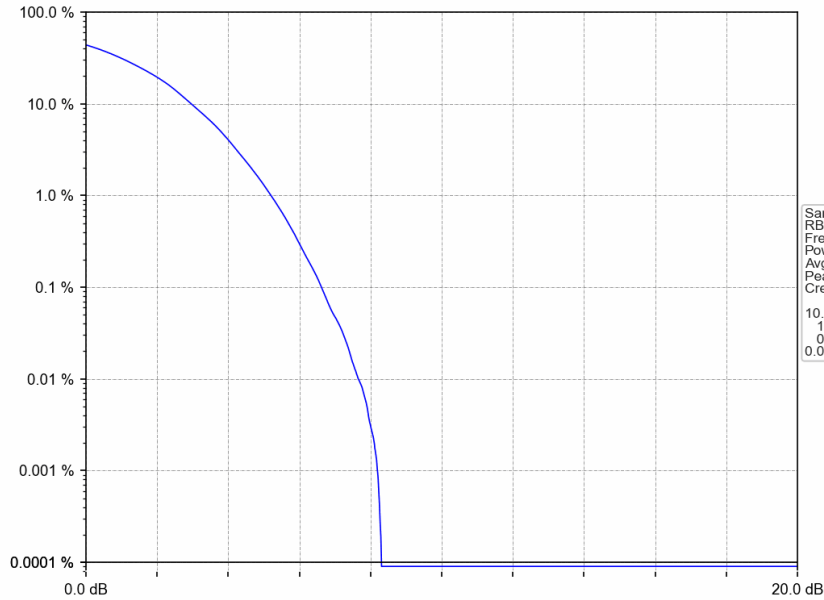
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Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 779.500MHz
Power:
Avg: 20.31dBm
Peak: 28.63dBm
Crest: 8.32dB
10.0 %: 2.96dB
1.0 %: 5.20dB
0.1 %: 6.62dB
0.01 %: 7.66dB

Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



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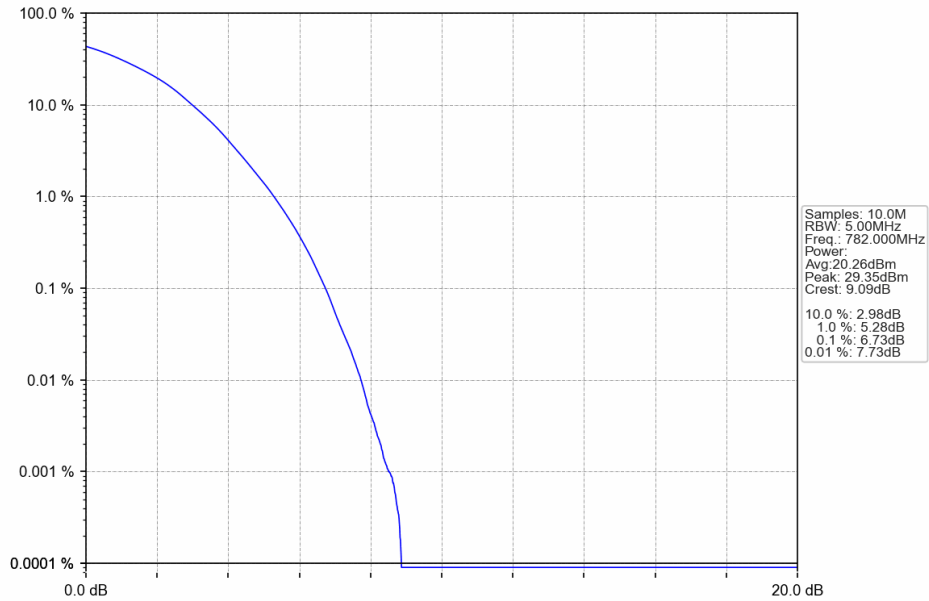
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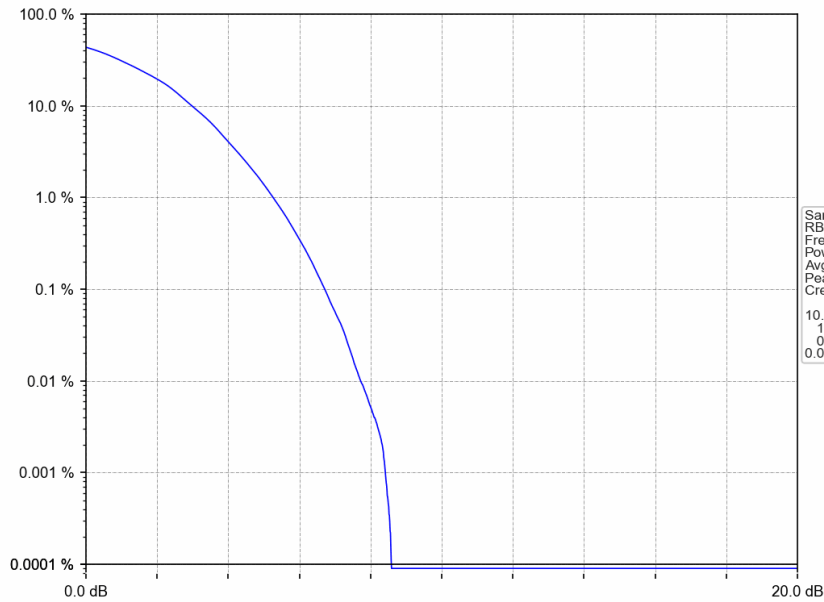
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Samples: 10.0M
RBW: 5.00MHz
Freq.: 784.500MHz
Power:
Avg: 20.29dBm
Peak: 28.93dBm
Crest: 8.64dB
10.0 %: 2.97dB
1.0 %: 5.26dB
0.1 %: 6.71dB
0.01 %: 7.72dB



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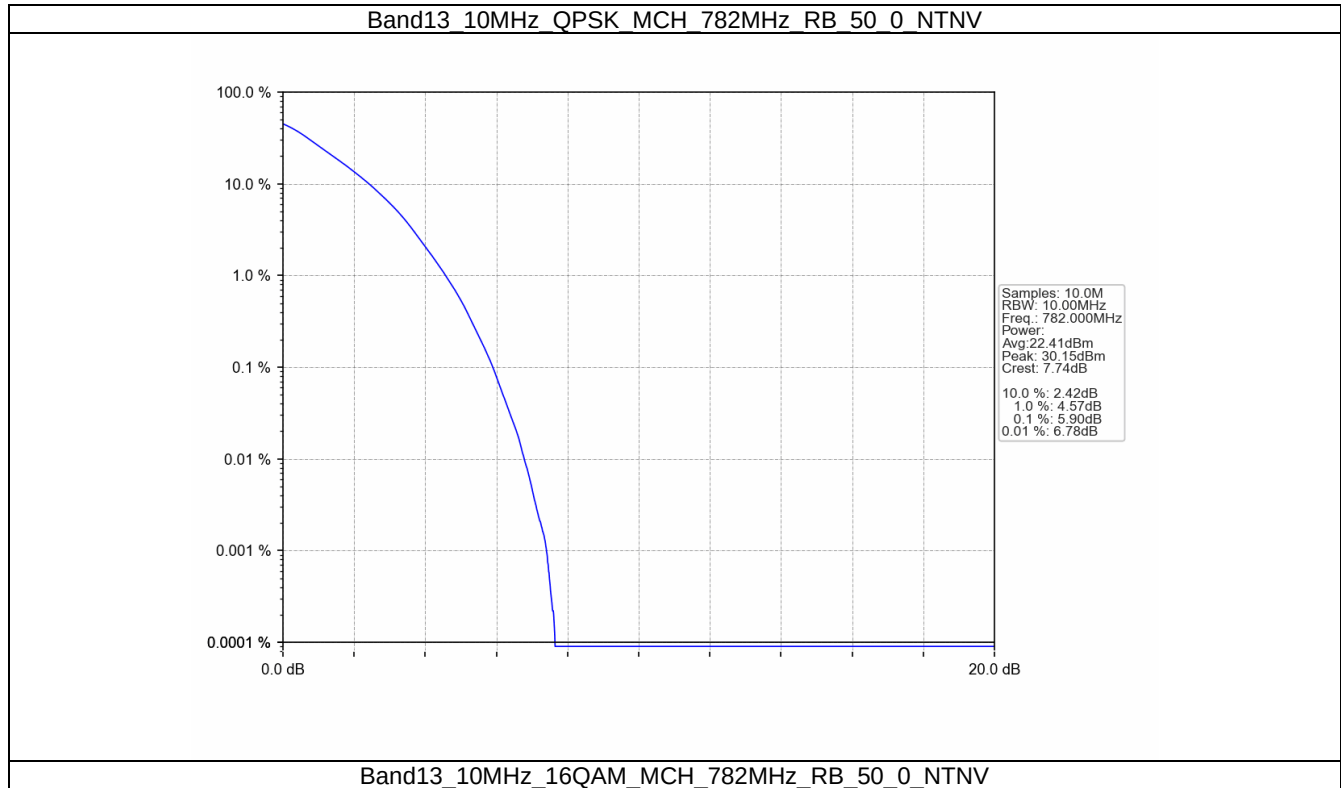
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4.2 B13_10MHz

4.2.2 Test Graph



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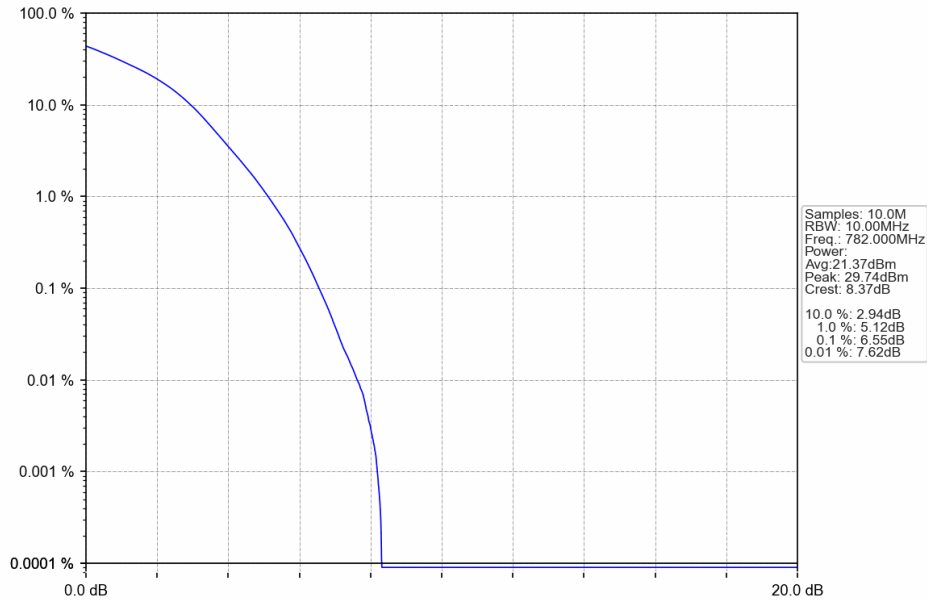
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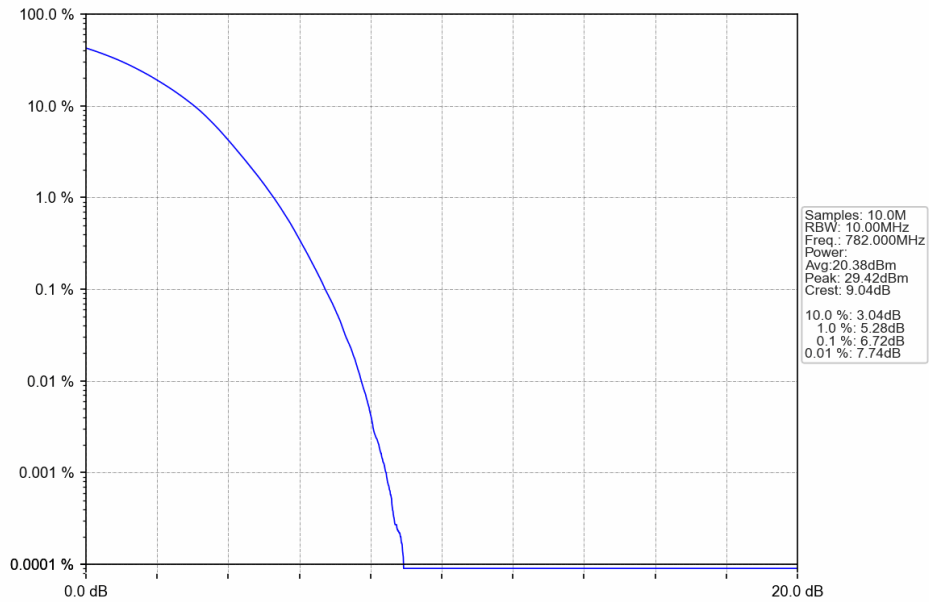
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Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



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5. Spurious Emission & Band Edges

5.1 B13_5MHz

5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
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

5.2 B13_10MHz

5.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV						
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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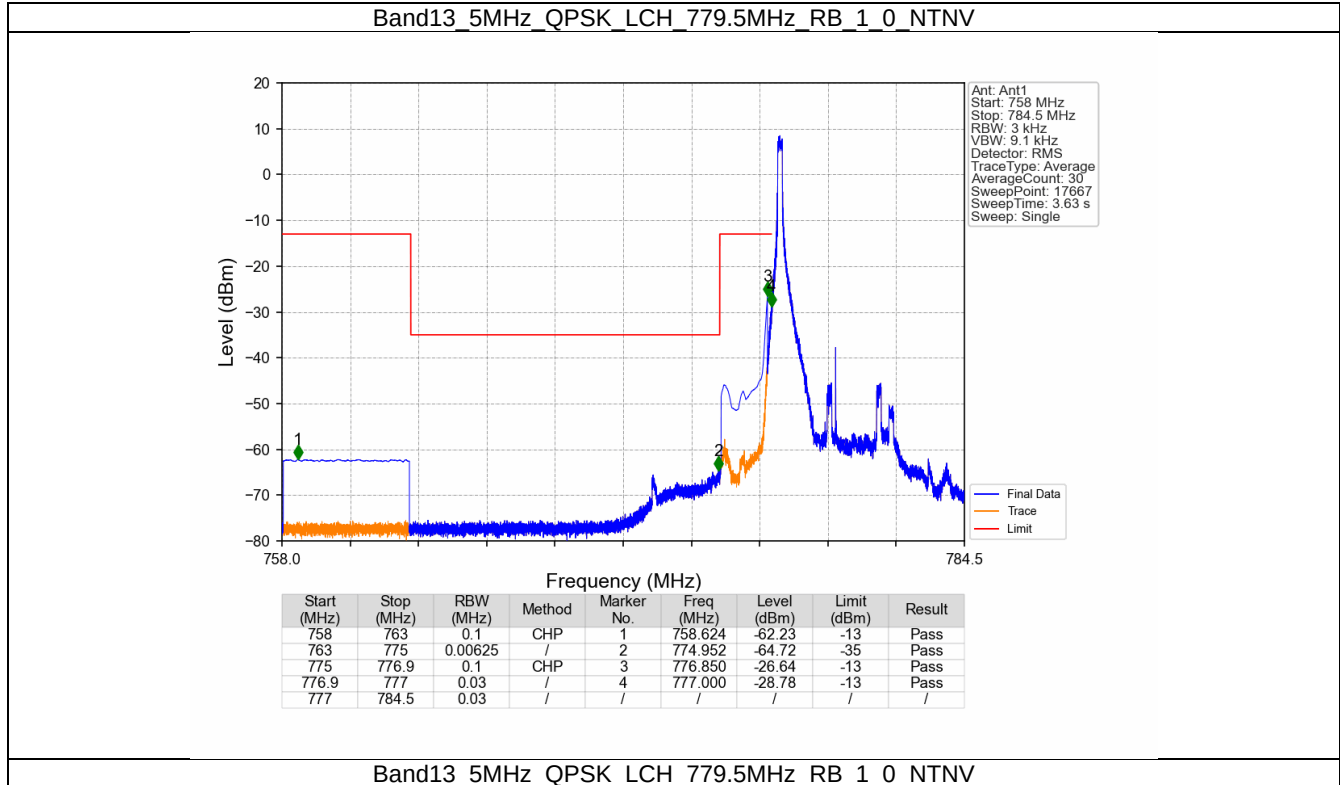
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5.1 B13_5MHz

5.1.2 Test Graph



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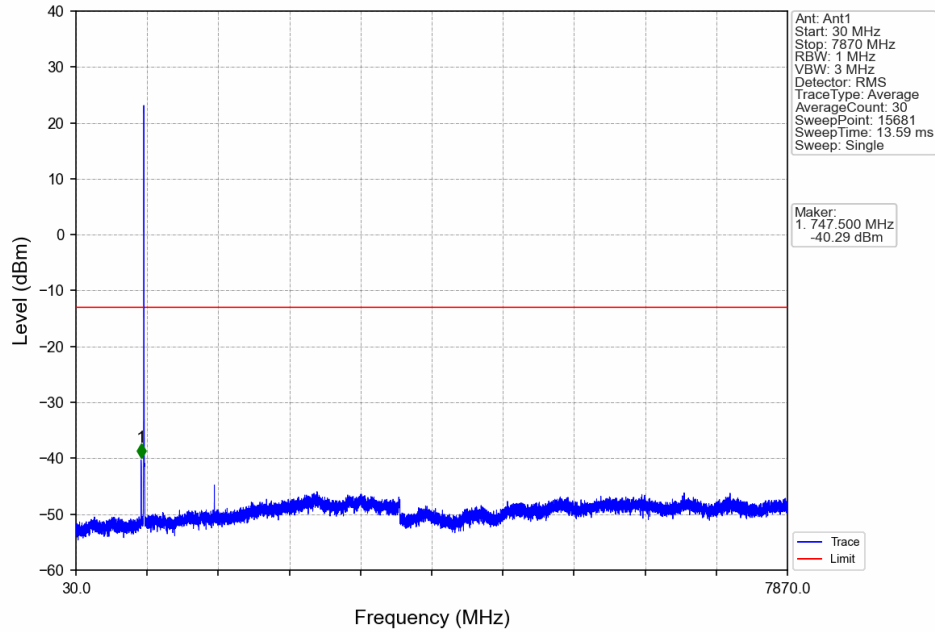
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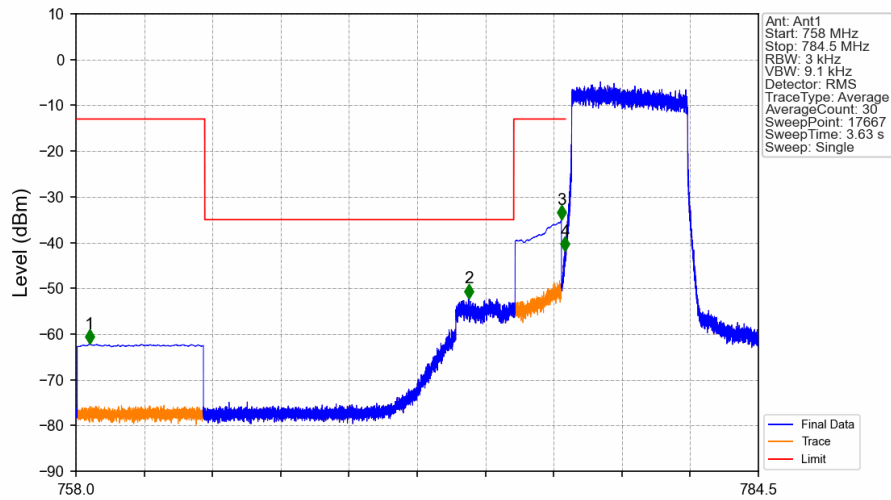
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Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.518	-62.20	-13	Pass
763	775	0.00625	/	2	773.253	-52.18	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.93	-13	Pass
776.9	777	0.03	/	4	776.988	-41.91	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



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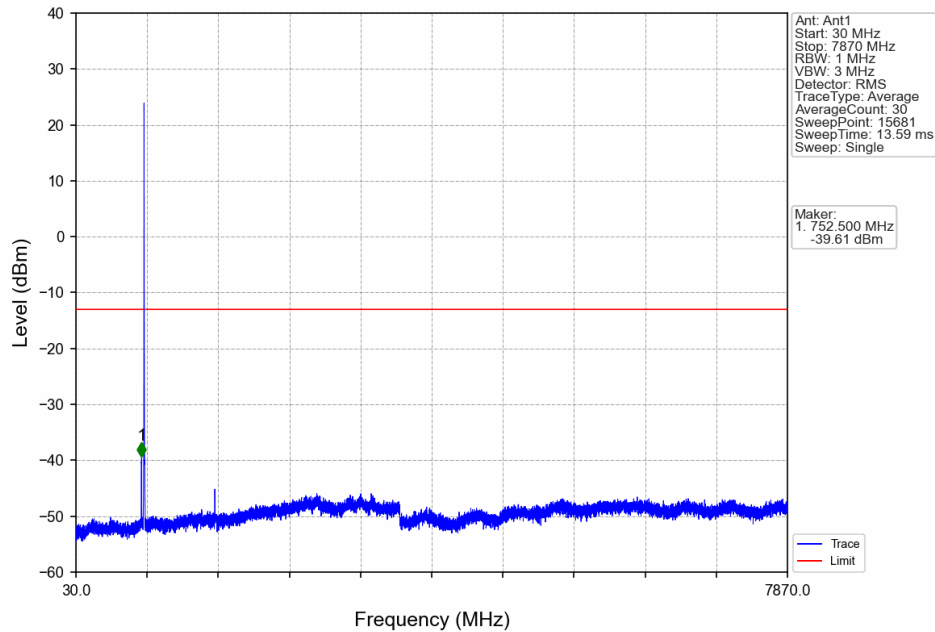
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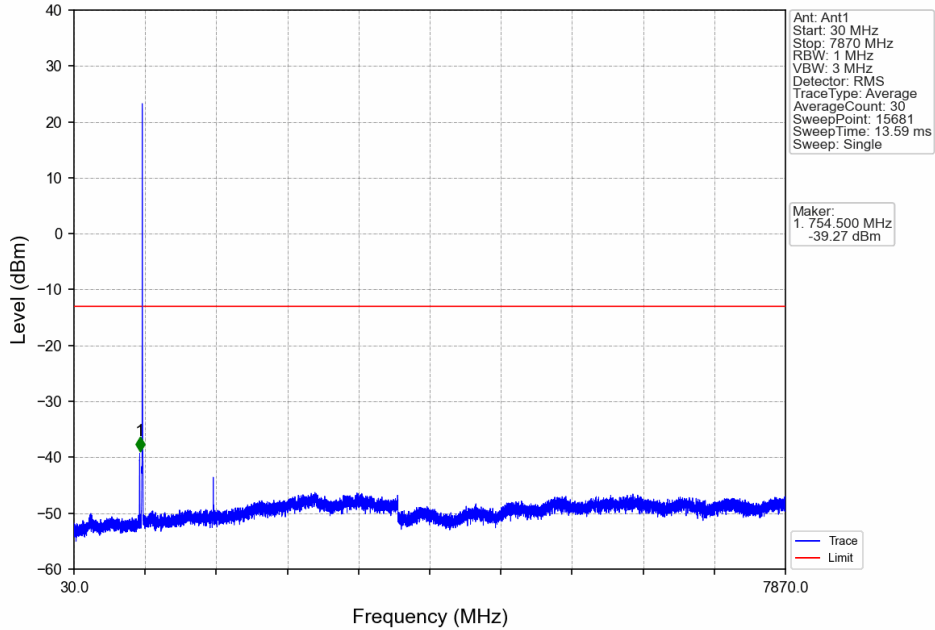
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Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTN



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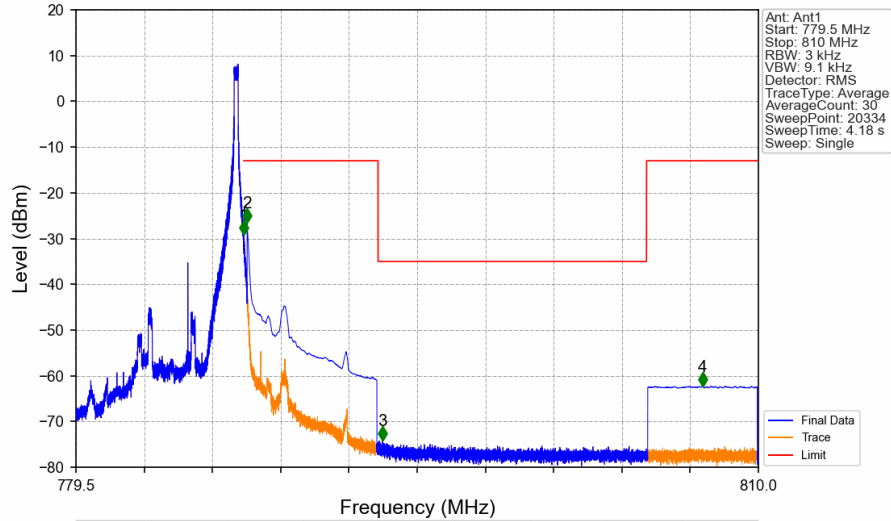
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779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-29.25	-13	Pass
787.1	793	0.1	CHP	2	787.150	-26.64	-13	Pass
793	805	0.00625	/	3	793.195	-74.22	-35	Pass
805	810	0.1	CHP	4	807.511	-62.31	-13	Pass



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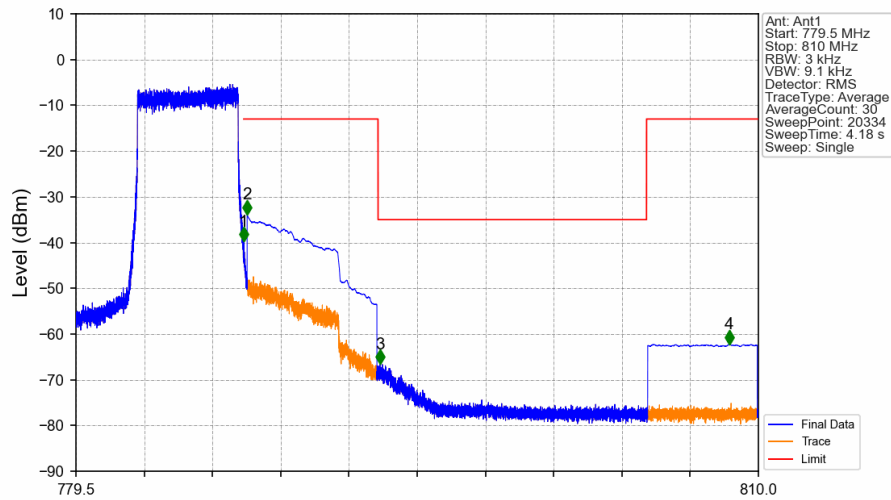
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



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779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-39.81	-13	Pass
787.1	793	0.1	CHP	2	787.150	-33.85	-13	Pass
793	805	0.00625	/	3	793.087	-66.54	-35	Pass
805	810	0.1	CHP	4	808.702	-62.23	-13	Pass



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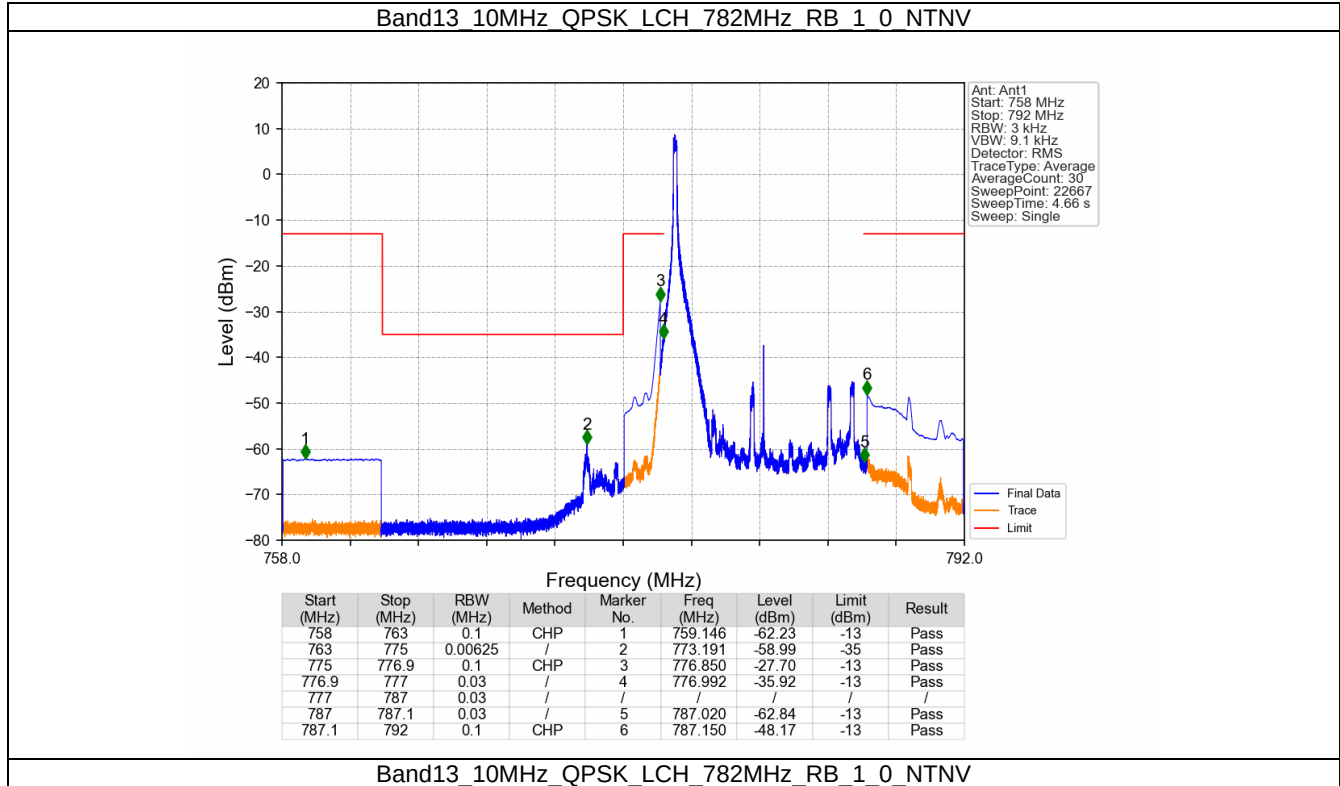
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5.2 B13_10MHz

5.2.2 Test Graph



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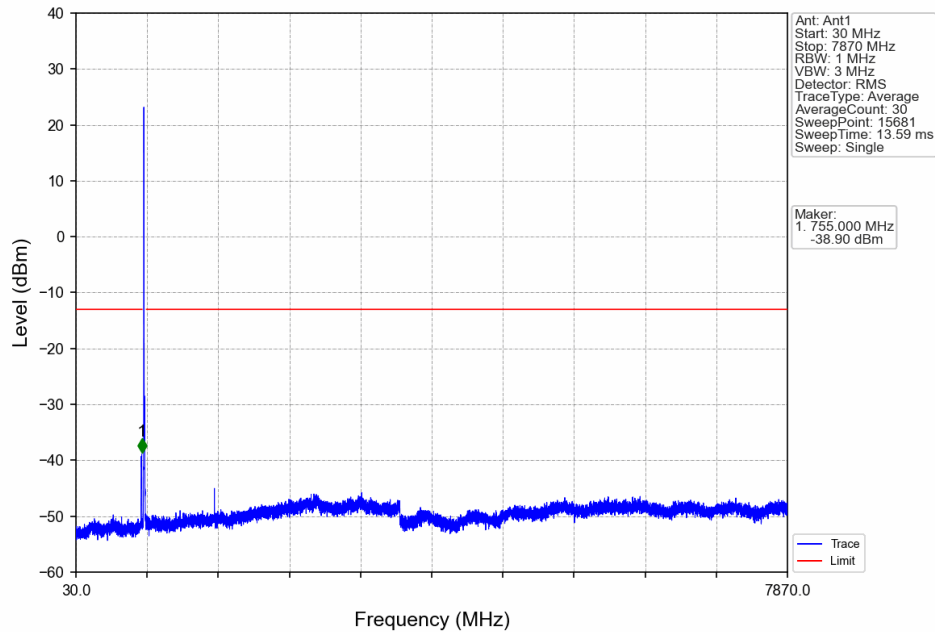
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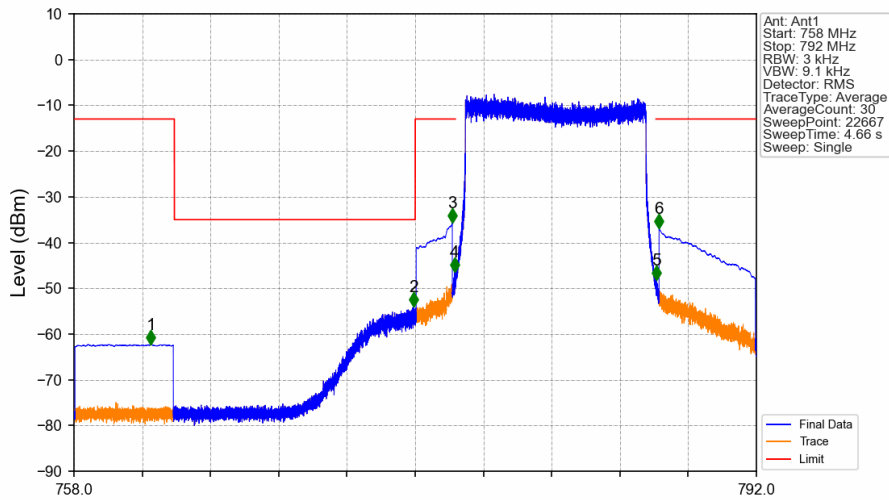
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Band13 10MHz QPSK LCH 782MHz RB 50 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.828	-62.27	-13	Pass
763	775	0.00625	/	2	774.914	-53.97	-35	Pass
775	776.9	0.1	CHP	3	776.850	-35.73	-13	Pass
776.9	777	0.03	/	4	776.968	-46.42	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.003	-48.21	-13	Pass
787.1	792	0.1	CHP	6	787.150	-36.97	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 1 49 NTN



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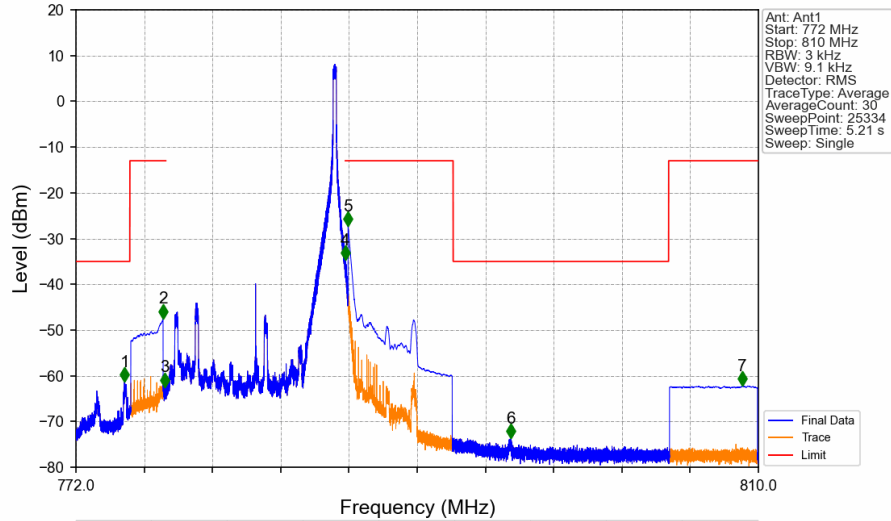
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.700	-61.26	-35	Pass
775	776.9	0.1	CHP	2	776.847	-47.48	-13	Pass
776.9	777	0.03	/	3	776.946	-62.47	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-34.67	-13	Pass
787.1	793	0.1	CHP	5	787.150	-27.25	-13	Pass
793	805	0.00625	/	6	796.231	-73.60	-35	Pass
805	810	0.1	CHP	7	809.112	-62.23	-13	Pass



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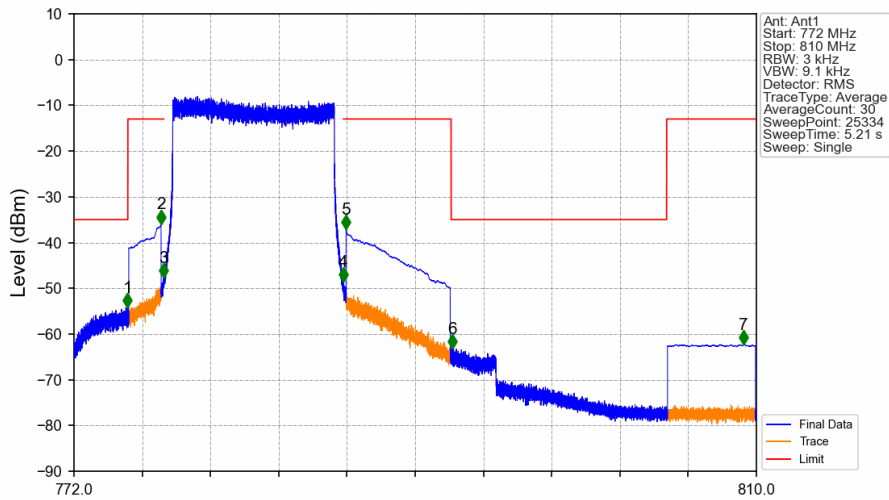
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Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.972	-54.15	-35	Pass
775	776.9	0.1	CHP	2	776.850	-35.97	-13	Pass
776.9	777	0.03	/	3	776.968	-47.72	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-48.57	-13	Pass
787.1	793	0.1	CHP	5	787.150	-37.11	-13	Pass
793	805	0.00625	/	6	793.062	-63.21	-35	Pass
805	810	0.1	CHP	7	809.295	-62.27	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE_13-5MHz

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	63.03	-53.46	25.89	-59.80	-13.00	46.80	Horizontal
2	1571	55.28	-53.42	25.86	-67.54	-40.00	27.54	Horizontal
3	2332	101.43	-51.91	27.79	-17.95	-13.00	4.95	Horizontal
4	4664	80.93	-45.91	31.94	-28.30	-13.00	15.30	Horizontal
5	5441.5	78.36	-44.33	33.35	-27.88	-13.00	14.88	Horizontal
6	6996	75.11	-43.88	36.49	-27.54	-13.00	14.54	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1594	55.59	-53.37	25.81	-67.23	-40.00	27.23	Vertical
2	2332	99.66	-51.91	27.79	-19.72	-13.00	6.72	Vertical
3	3886.5	74.59	-48.48	30.55	-38.60	-13.00	25.60	Vertical
4	4664	67.39	-45.91	31.94	-41.84	-13.00	28.84	Vertical
5	5441.5	69.92	-44.33	33.35	-36.32	-13.00	23.32	Vertical
6	6995.5	70.00	-43.88	36.49	-32.65	-13.00	19.65	Vertical



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Test Band = LTE_13-5MHz
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	60.38	-53.45	25.88	-62.45	-40.00	22.45	Horizontal
2	2339.5	102.97	-51.94	27.84	-16.39	-13.00	3.39	Horizontal
3	4679.5	78.95	-45.71	31.88	-30.14	-13.00	17.14	Horizontal
4	5458.5	77.43	-44.12	33.35	-28.60	-13.00	15.60	Horizontal
5	7018.5	77.30	-43.74	36.43	-25.27	-13.00	12.27	Horizontal
6	9358	66.35	-40.11	38.53	-30.49	-13.00	17.49	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1560	57.30	-53.45	25.88	-65.53	-40.00	25.53	Vertical
2	2340	98.79	-51.94	27.84	-20.57	-13.00	7.57	Vertical
3	3899	76.08	-48.58	30.60	-37.16	-13.00	24.16	Vertical
4	4679	71.45	-45.71	31.88	-37.64	-13.00	24.64	Vertical
5	5458.5	69.71	-44.12	33.35	-36.32	-13.00	23.32	Vertical
6	7018.5	63.58	-43.74	36.43	-38.99	-13.00	25.99	Vertical



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Test Band = LTE_13-5MHz
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	62.38	-53.44	25.87	-60.45	-40.00	20.45	Horizontal
2	2347	103.03	-51.98	27.88	-16.33	-13.00	3.33	Horizontal
3	3912	78.47	-48.41	30.67	-34.53	-13.00	21.53	Horizontal
4	4693.5	83.85	-45.52	31.83	-25.10	-13.00	12.10	Horizontal
5	5477	81.55	-43.69	33.24	-24.16	-13.00	11.16	Horizontal
6	7040.5	77.90	-43.58	36.34	-24.60	-13.00	11.60	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	57.76	-53.44	25.87	-65.07	-40.00	25.07	Vertical
2	2347	102.27	-51.98	27.88	-17.09	-13.00	4.09	Vertical
3	3912	78.47	-48.41	30.67	-34.53	-13.00	21.53	Vertical
4	4693.5	67.26	-45.52	31.83	-41.69	-13.00	28.69	Vertical
5	5476.5	74.90	-43.70	33.24	-30.82	-13.00	17.82	Vertical
6	7040.5	67.78	-43.58	36.34	-34.72	-13.00	21.72	Vertical



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Test Band = LTE_13-10MHz
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1600	55.72	-53.36	25.80	-67.10	-40.00	27.10	Horizontal
2	2332.5	102.47	-51.91	27.80	-16.90	-13.00	3.90	Horizontal
3	3888	79.55	-48.49	30.55	-33.65	-13.00	20.65	Horizontal
4	4666	81.40	-45.88	31.94	-27.80	-13.00	14.80	Horizontal
5	5443	76.82	-44.33	33.36	-29.41	-13.00	16.41	Horizontal
6	6997.5	78.24	-43.87	36.50	-24.39	-13.00	11.39	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1593.5	55.26	-53.37	25.81	-67.56	-40.00	27.56	Vertical
2	2333	99.40	-51.91	27.80	-19.97	-13.00	6.97	Vertical
3	3888	76.20	-48.49	30.55	-37.00	-13.00	24.00	Vertical
4	4665.5	68.43	-45.89	31.94	-40.78	-13.00	27.78	Vertical
5	5443	71.93	-44.33	33.36	-34.30	-13.00	21.30	Vertical
6	6998	63.93	-43.87	36.50	-38.70	-13.00	25.70	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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