

Appendix O for KSCR2205000668AT-FCC-LTE-Band13

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	23.84	-4.31	17.38	<=34.77	Pass		
			13	23.79	-4.31	17.33	<=34.77	Pass		
			24	23.31	-4.31	16.85	<=34.77	Pass		
		12	0	22.48	-4.31	16.02	<=34.77	Pass		
			6	22.54	-4.31	16.08	<=34.77	Pass		
			13	22.47	-4.31	16.01	<=34.77	Pass		
		25	0	22.46	-4.31	16.00	<=34.77	Pass		
			6	23.61	-4.31	17.15	<=34.77	Pass		
			13	23.48	-4.31	17.02	<=34.77	Pass		
	782	1	24	23.24	-4.31	16.78	<=34.77	Pass		
			0	22.36	-4.31	15.90	<=34.77	Pass		
			6	22.44	-4.31	15.98	<=34.77	Pass		
		12	13	22.38	-4.31	15.92	<=34.77	Pass		
			0	22.34	-4.31	15.88	<=34.77	Pass		
			6	23.72	-4.31	17.26	<=34.77	Pass		
		784.5	1	13	23.51	-4.31	17.05	<=34.77	Pass	
				24	23.22	-4.31	16.76	<=34.77	Pass	
				0	22.39	-4.31	15.93	<=34.77	Pass	
	12		6	22.41	-4.31	15.95	<=34.77	Pass		
			13	22.31	-4.31	15.85	<=34.77	Pass		
			0	22.28	-4.31	15.82	<=34.77	Pass		
	16QAM		779.5	1	0	22.19	-4.31	15.73	<=34.77	Pass
					13	22.35	-4.31	15.89	<=34.77	Pass
					24	22.13	-4.31	15.67	<=34.77	Pass
12		0		21.44	-4.31	14.98	<=34.77	Pass		
		6		21.50	-4.31	15.04	<=34.77	Pass		
		13		21.44	-4.31	14.98	<=34.77	Pass		
25		0		21.54	-4.31	15.08	<=34.77	Pass		
		6		22.60	-4.31	16.14	<=34.77	Pass		
		13		22.64	-4.31	16.18	<=34.77	Pass		
782		1	24	22.45	-4.31	15.99	<=34.77	Pass		
			0	21.38	-4.31	14.92	<=34.77	Pass		
			6	21.45	-4.31	14.99	<=34.77	Pass		
		12	13	21.35	-4.31	14.89	<=34.77	Pass		
			0	21.34	-4.31	14.88	<=34.77	Pass		
			6	22.36	-4.31	15.90	<=34.77	Pass		
		784.5	1	13	22.46	-4.31	16.00	<=34.77	Pass	
				24	22.32	-4.31	15.86	<=34.77	Pass	
				0	21.31	-4.31	14.85	<=34.77	Pass	
12			6	21.36	-4.31	14.90	<=34.77	Pass		
			13	21.26	-4.31	14.80	<=34.77	Pass		

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64QAM	779.5	25	0	21.36	-4.31	14.90	<=34.77	Pass	
			1	0	21.32	-4.31	14.86	<=34.77	Pass
				13	21.48	-4.31	15.02	<=34.77	Pass
		12	24	21.25	-4.31	14.79	<=34.77	Pass	
			0	20.52	-4.31	14.06	<=34.77	Pass	
			6	20.59	-4.31	14.13	<=34.77	Pass	
	782	25	13	20.57	-4.31	14.11	<=34.77	Pass	
			0	20.65	-4.31	14.19	<=34.77	Pass	
			1	0	21.49	-4.31	15.03	<=34.77	Pass
		12	13	21.54	-4.31	15.08	<=34.77	Pass	
			24	21.38	-4.31	14.92	<=34.77	Pass	
			0	20.51	-4.31	14.05	<=34.77	Pass	
	784.5	25	6	20.66	-4.31	14.20	<=34.77	Pass	
			13	20.58	-4.31	14.12	<=34.77	Pass	
			0	20.60	-4.31	14.14	<=34.77	Pass	
		1	0	21.42	-4.31	14.96	<=34.77	Pass	
			13	21.53	-4.31	15.07	<=34.77	Pass	
			24	21.43	-4.31	14.97	<=34.77	Pass	
	12	0	20.68	-4.31	14.22	<=34.77	Pass		
		6	20.72	-4.31	14.26	<=34.77	Pass		
		13	20.59	-4.31	14.13	<=34.77	Pass		
	25	0	20.63	-4.31	14.17	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

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	23.88	-4.31	17.42	<=34.77	Pass
			25	23.69	-4.31	17.23	<=34.77	Pass
			49	23.23	-4.31	16.77	<=34.77	Pass
		25	0	22.45	-4.31	15.99	<=34.77	Pass
			13	22.39	-4.31	15.93	<=34.77	Pass
			25	22.31	-4.31	15.85	<=34.77	Pass
	50	0	22.37	-4.31	15.91	<=34.77	Pass	
	782	1	0	23.40	-4.31	16.94	<=34.77	Pass
			25	23.58	-4.31	17.12	<=34.77	Pass
			49	23.24	-4.31	16.78	<=34.77	Pass
		25	0	22.41	-4.31	15.95	<=34.77	Pass
			13	22.39	-4.31	15.93	<=34.77	Pass
			25	22.30	-4.31	15.84	<=34.77	Pass
	50	0	22.37	-4.31	15.91	<=34.77	Pass	
	782	1	0	23.41	-4.31	16.95	<=34.77	Pass
			25	23.58	-4.31	17.12	<=34.77	Pass
			49	23.26	-4.31	16.80	<=34.77	Pass
		25	0	22.42	-4.31	15.96	<=34.77	Pass
			13	22.40	-4.31	15.94	<=34.77	Pass
			25	22.29	-4.31	15.83	<=34.77	Pass
	50	0	22.37	-4.31	15.91	<=34.77	Pass	

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16QAM	782	1	0	22.91	-4.31	16.45	<=34.77	Pass
			25	22.97	-4.31	16.51	<=34.77	Pass
			49	22.74	-4.31	16.28	<=34.77	Pass
		25	0	21.44	-4.31	14.98	<=34.77	Pass
			13	21.45	-4.31	14.99	<=34.77	Pass
			25	21.32	-4.31	14.86	<=34.77	Pass
	50	0	21.36	-4.31	14.90	<=34.77	Pass	
	782	1	0	22.88	-4.31	16.42	<=34.77	Pass
			25	22.96	-4.31	16.50	<=34.77	Pass
			49	22.77	-4.31	16.31	<=34.77	Pass
		25	0	21.45	-4.31	14.99	<=34.77	Pass
			13	21.45	-4.31	14.99	<=34.77	Pass
			25	21.33	-4.31	14.87	<=34.77	Pass
	50	0	21.36	-4.31	14.90	<=34.77	Pass	
	782	1	0	22.89	-4.31	16.43	<=34.77	Pass
			25	22.97	-4.31	16.51	<=34.77	Pass
			49	22.77	-4.31	16.31	<=34.77	Pass
		25	0	21.43	-4.31	14.97	<=34.77	Pass
13			21.44	-4.31	14.98	<=34.77	Pass	
25			21.32	-4.31	14.86	<=34.77	Pass	
50	0	21.36	-4.31	14.90	<=34.77	Pass		
64QAM	782	1	0	21.61	-4.31	15.15	<=34.77	Pass
			25	21.69	-4.31	15.23	<=34.77	Pass
			49	21.47	-4.31	15.01	<=34.77	Pass
		25	0	20.54	-4.31	14.08	<=34.77	Pass
			13	20.52	-4.31	14.06	<=34.77	Pass
			25	20.49	-4.31	14.03	<=34.77	Pass
	50	0	20.59	-4.31	14.13	<=34.77	Pass	
	782	1	0	21.63	-4.31	15.17	<=34.77	Pass
			25	21.72	-4.31	15.26	<=34.77	Pass
			49	21.48	-4.31	15.02	<=34.77	Pass
		25	0	20.53	-4.31	14.07	<=34.77	Pass
			13	20.49	-4.31	14.03	<=34.77	Pass
			25	20.37	-4.31	13.91	<=34.77	Pass
	50	0	20.55	-4.31	14.09	<=34.77	Pass	
	782	1	0	21.60	-4.31	15.14	<=34.77	Pass
			25	21.74	-4.31	15.28	<=34.77	Pass
			49	21.47	-4.31	15.01	<=34.77	Pass
		25	0	20.51	-4.31	14.05	<=34.77	Pass
13			20.57	-4.31	14.11	<=34.77	Pass	
25			20.39	-4.31	13.93	<=34.77	Pass	
50	0	20.51	-4.31	14.05	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B13_5MHz

2.1.1 Test Result

Band: 13 / Bandwidth: 5MHz



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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	3.46	-4.164	-0.0053	-2.5 to 2.5	Pass	
					3.8	-3.410	-0.0044	-2.5 to 2.5	Pass	
					4.35	-2.943	-0.0038	-2.5 to 2.5	Pass	
				-30	3.8	-3.231	-0.0041	-2.5 to 2.5	Pass	
					-20	3.8	-3.898	-0.0050	-2.5 to 2.5	Pass
						-10	3.8	-1.070	-0.0014	-2.5 to 2.5
				0	3.8	-2.722	-0.0035	-2.5 to 2.5	Pass	
					10	3.8	-2.288	-0.0029	-2.5 to 2.5	Pass
				30	3.8	-4.860	-0.0062	-2.5 to 2.5	Pass	
				40	3.8	-3.802	-0.0049	-2.5 to 2.5	Pass	
	50	3.8	-6.175	-0.0079	-2.5 to 2.5	Pass				
	782	25	0	20	3.46	-3.340	-0.0043	-2.5 to 2.5	Pass	
					3.8	-5.923	-0.0076	-2.5 to 2.5	Pass	
					4.35	-5.435	-0.0070	-2.5 to 2.5	Pass	
				-30	3.8	-4.588	-0.0059	-2.5 to 2.5	Pass	
					-20	3.8	-5.589	-0.0071	-2.5 to 2.5	Pass
						-10	3.8	-1.379	-0.0018	-2.5 to 2.5
				0	3.8	-10.532	-0.0135	-2.5 to 2.5	Pass	
					10	3.8	-5.135	-0.0066	-2.5 to 2.5	Pass
				30	3.8	-12.785	-0.0163	-2.5 to 2.5	Pass	
				40	3.8	-6.860	-0.0088	-2.5 to 2.5	Pass	
	50	3.8	-8.741	-0.0112	-2.5 to 2.5	Pass				
	784.5	25	0	20	3.46	-2.889	-0.0037	-2.5 to 2.5	Pass	
					3.8	-7.026	-0.0090	-2.5 to 2.5	Pass	
					4.35	-5.044	-0.0064	-2.5 to 2.5	Pass	
				-30	3.8	-3.048	-0.0039	-2.5 to 2.5	Pass	
					-20	3.8	-4.120	-0.0053	-2.5 to 2.5	Pass
						-10	3.8	-2.382	-0.0030	-2.5 to 2.5
				0	3.8	-3.469	-0.0044	-2.5 to 2.5	Pass	
					10	3.8	-0.269	-0.0003	-2.5 to 2.5	Pass
30				3.8	0.699	0.0009	-2.5 to 2.5	Pass		
40				3.8	-5.721	-0.0073	-2.5 to 2.5	Pass		
50	3.8	-8.204	-0.0105	-2.5 to 2.5	Pass					
16QAM	779.5	25	0	20	3.46	-3.296	-0.0042	-2.5 to 2.5	Pass	
					3.8	-1.742	-0.0022	-2.5 to 2.5	Pass	
					4.35	-2.880	-0.0037	-2.5 to 2.5	Pass	
				-30	3.8	-6.855	-0.0088	-2.5 to 2.5	Pass	
					-20	3.8	-3.731	-0.0048	-2.5 to 2.5	Pass
						-10	3.8	0.682	0.0009	-2.5 to 2.5
				0	3.8	-4.251	-0.0055	-2.5 to 2.5	Pass	
					10	3.8	-0.940	-0.0012	-2.5 to 2.5	Pass
				30	3.8	-4.302	-0.0055	-2.5 to 2.5	Pass	
				40	3.8	-6.300	-0.0081	-2.5 to 2.5	Pass	
	50	3.8	-3.785	-0.0049	-2.5 to 2.5	Pass				
	782	25	0	20	3.46	-13.791	-0.0176	-2.5 to 2.5	Pass	
					3.8	-6.572	-0.0084	-2.5 to 2.5	Pass	
					4.35	-5.204	-0.0067	-2.5 to 2.5	Pass	
				-30	3.8	-2.612	-0.0033	-2.5 to 2.5	Pass	
					-20	3.8	-4.242	-0.0054	-2.5 to 2.5	Pass
						-10	3.8	-7.660	-0.0098	-2.5 to 2.5
				0	3.8	0.500	0.0006	-2.5 to 2.5	Pass	
					10	3.8	-7.153	-0.0091	-2.5 to 2.5	Pass

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	784.5	25	0	30	3.8	-6.074	-0.0078	-2.5 to 2.5	Pass
				40	3.8	-7.164	-0.0092	-2.5 to 2.5	Pass
				50	3.8	-7.635	-0.0098	-2.5 to 2.5	Pass
				20	3.46	-3.472	-0.0044	-2.5 to 2.5	Pass
					3.8	-3.741	-0.0048	-2.5 to 2.5	Pass
					4.35	-5.448	-0.0069	-2.5 to 2.5	Pass
				-30	3.8	-8.401	-0.0107	-2.5 to 2.5	Pass
				-20	3.8	-1.373	-0.0018	-2.5 to 2.5	Pass
				-10	3.8	-8.671	-0.0111	-2.5 to 2.5	Pass
				0	3.8	-10.236	-0.0130	-2.5 to 2.5	Pass
				10	3.8	-7.596	-0.0097	-2.5 to 2.5	Pass
				30	3.8	-9.917	-0.0126	-2.5 to 2.5	Pass
40	3.8	-9.007	-0.0115	-2.5 to 2.5	Pass				
50	3.8	-7.926	-0.0101	-2.5 to 2.5	Pass				
64QAM	779.5	25	0	20	3.46	-3.898	-0.0050	-2.5 to 2.5	Pass
					3.8	-8.367	-0.0107	-2.5 to 2.5	Pass
					4.35	-8.126	-0.0104	-2.5 to 2.5	Pass
				-30	3.8	-7.929	-0.0102	-2.5 to 2.5	Pass
				-20	3.8	-7.960	-0.0102	-2.5 to 2.5	Pass
				-10	3.8	-4.100	-0.0053	-2.5 to 2.5	Pass
				0	3.8	-4.397	-0.0056	-2.5 to 2.5	Pass
				10	3.8	-4.289	-0.0055	-2.5 to 2.5	Pass
				30	3.8	-7.247	-0.0093	-2.5 to 2.5	Pass
				40	3.8	-6.061	-0.0078	-2.5 to 2.5	Pass
				50	3.8	-2.951	-0.0038	-2.5 to 2.5	Pass
				64QAM	782	25	0	20	3.46
3.8	-3.007	-0.0038	-2.5 to 2.5						Pass
4.35	-4.131	-0.0053	-2.5 to 2.5						Pass
-30	3.8	-9.669	-0.0124					-2.5 to 2.5	Pass
-20	3.8	-5.233	-0.0067					-2.5 to 2.5	Pass
-10	3.8	-5.232	-0.0067					-2.5 to 2.5	Pass
0	3.8	-4.059	-0.0052					-2.5 to 2.5	Pass
10	3.8	-4.781	-0.0061					-2.5 to 2.5	Pass
30	3.8	-3.585	-0.0046					-2.5 to 2.5	Pass
40	3.8	-2.673	-0.0034					-2.5 to 2.5	Pass
50	3.8	-2.399	-0.0031					-2.5 to 2.5	Pass
64QAM	784.5	25	0					20	3.46
				3.8	-7.338	-0.0094	-2.5 to 2.5		Pass
				4.35	-7.736	-0.0099	-2.5 to 2.5		Pass
				-30	3.8	-2.357	-0.0030	-2.5 to 2.5	Pass
				-20	3.8	-5.036	-0.0064	-2.5 to 2.5	Pass
				-10	3.8	-7.676	-0.0098	-2.5 to 2.5	Pass
				0	3.8	-5.838	-0.0074	-2.5 to 2.5	Pass
				10	3.8	-9.880	-0.0126	-2.5 to 2.5	Pass
				30	3.8	-6.676	-0.0085	-2.5 to 2.5	Pass
				40	3.8	-5.529	-0.0070	-2.5 to 2.5	Pass
				50	3.8	-6.083	-0.0078	-2.5 to 2.5	Pass

2.2 B13_10MHZ

2.2.1 Test Result



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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	3.46	-8.356	-0.0107	-2.5 to 2.5	Pass	
					3.8	-5.153	-0.0066	-2.5 to 2.5	Pass	
					4.35	-9.187	-0.0117	-2.5 to 2.5	Pass	
				-30	3.8	-10.613	-0.0136	-2.5 to 2.5	Pass	
					-20	3.8	-1.697	-0.0022	-2.5 to 2.5	Pass
						-10	3.8	-6.247	-0.0080	-2.5 to 2.5
				0	3.8	0.258	0.0003	-2.5 to 2.5	Pass	
					10	3.8	-5.028	-0.0064	-2.5 to 2.5	Pass
				30	3.8	-4.961	-0.0063	-2.5 to 2.5	Pass	
	40	3.8	-5.859	-0.0075	-2.5 to 2.5	Pass				
	50	3.8	-1.943	-0.0025	-2.5 to 2.5	Pass				
	782	50	0	20	3.46	-8.299	-0.0106	-2.5 to 2.5	Pass	
					3.8	-3.658	-0.0047	-2.5 to 2.5	Pass	
					4.35	-9.281	-0.0119	-2.5 to 2.5	Pass	
				-30	3.8	-6.930	-0.0089	-2.5 to 2.5	Pass	
					-20	3.8	-5.034	-0.0064	-2.5 to 2.5	Pass
						-10	3.8	-5.595	-0.0072	-2.5 to 2.5
				0	3.8	-2.428	-0.0031	-2.5 to 2.5	Pass	
					10	3.8	-6.141	-0.0079	-2.5 to 2.5	Pass
				30	3.8	-5.746	-0.0073	-2.5 to 2.5	Pass	
	40	3.8	-1.517	-0.0019	-2.5 to 2.5	Pass				
	50	3.8	-4.414	-0.0056	-2.5 to 2.5	Pass				
	782	50	0	20	3.46	-6.802	-0.0087	-2.5 to 2.5	Pass	
					3.8	-8.643	-0.0111	-2.5 to 2.5	Pass	
4.35					-6.680	-0.0085	-2.5 to 2.5	Pass		
-30				3.8	-3.441	-0.0044	-2.5 to 2.5	Pass		
				-20	3.8	-5.791	-0.0074	-2.5 to 2.5	Pass	
					-10	3.8	-6.140	-0.0079	-2.5 to 2.5	Pass
0				3.8	-4.700	-0.0060	-2.5 to 2.5	Pass		
				10	3.8	-9.242	-0.0118	-2.5 to 2.5	Pass	
30				3.8	-3.735	-0.0048	-2.5 to 2.5	Pass		
40	3.8	-6.062	-0.0078	-2.5 to 2.5	Pass					
50	3.8	-2.995	-0.0038	-2.5 to 2.5	Pass					
16QAM	782	50	0	20	3.46	-5.887	-0.0075	-2.5 to 2.5	Pass	
					3.8	-7.501	-0.0096	-2.5 to 2.5	Pass	
					4.35	-9.693	-0.0124	-2.5 to 2.5	Pass	
				-30	3.8	-5.578	-0.0071	-2.5 to 2.5	Pass	
					-20	3.8	-8.742	-0.0112	-2.5 to 2.5	Pass
						-10	3.8	-6.626	-0.0085	-2.5 to 2.5
				0	3.8	-8.157	-0.0104	-2.5 to 2.5	Pass	
					10	3.8	-8.453	-0.0108	-2.5 to 2.5	Pass
				30	3.8	-6.979	-0.0089	-2.5 to 2.5	Pass	
	40	3.8	-7.713	-0.0099	-2.5 to 2.5	Pass				
	50	3.8	-4.111	-0.0053	-2.5 to 2.5	Pass				
	782	50	0	20	3.46	-6.485	-0.0083	-2.5 to 2.5	Pass	
					3.8	-7.123	-0.0091	-2.5 to 2.5	Pass	
					4.35	-3.817	-0.0049	-2.5 to 2.5	Pass	
				-30	3.8	-7.733	-0.0099	-2.5 to 2.5	Pass	
					-20	3.8	-5.133	-0.0066	-2.5 to 2.5	Pass
						-10	3.8	-2.580	-0.0033	-2.5 to 2.5
				0	3.8	-9.645	-0.0123	-2.5 to 2.5	Pass	

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				10	3.8	-8.490	-0.0109	-2.5 to 2.5	Pass			
				30	3.8	-7.088	-0.0091	-2.5 to 2.5	Pass			
				40	3.8	-7.726	-0.0099	-2.5 to 2.5	Pass			
				50	3.8	-11.548	-0.0148	-2.5 to 2.5	Pass			
				782	50	0	20	3.46	-4.679	-0.0060	-2.5 to 2.5	Pass
								3.8	-4.900	-0.0063	-2.5 to 2.5	Pass
								4.35	-8.392	-0.0107	-2.5 to 2.5	Pass
							-30	3.8	-3.390	-0.0043	-2.5 to 2.5	Pass
							-20	3.8	-5.603	-0.0072	-2.5 to 2.5	Pass
							-10	3.8	-5.885	-0.0075	-2.5 to 2.5	Pass
							0	3.8	-6.132	-0.0078	-2.5 to 2.5	Pass
							10	3.8	-6.286	-0.0080	-2.5 to 2.5	Pass
							30	3.8	-7.416	-0.0095	-2.5 to 2.5	Pass
							40	3.8	-3.688	-0.0047	-2.5 to 2.5	Pass
50	3.8	-5.651	-0.0072	-2.5 to 2.5	Pass							
64QAM	782	50	0	20	3.46	-9.947	-0.0127	-2.5 to 2.5	Pass			
					3.8	-7.463	-0.0095	-2.5 to 2.5	Pass			
					4.35	-11.118	-0.0142	-2.5 to 2.5	Pass			
				-30	3.8	-14.872	-0.0190	-2.5 to 2.5	Pass			
				-20	3.8	-7.983	-0.0102	-2.5 to 2.5	Pass			
				-10	3.8	-5.479	-0.0070	-2.5 to 2.5	Pass			
				0	3.8	-8.981	-0.0115	-2.5 to 2.5	Pass			
				10	3.8	-2.234	-0.0029	-2.5 to 2.5	Pass			
				30	3.8	-4.424	-0.0057	-2.5 to 2.5	Pass			
				40	3.8	-7.883	-0.0101	-2.5 to 2.5	Pass			
				50	3.8	-3.480	-0.0045	-2.5 to 2.5	Pass			
				782	50	0	20	3.46	-10.333	-0.0132	-2.5 to 2.5	Pass
								3.8	-8.597	-0.0110	-2.5 to 2.5	Pass
								4.35	-9.425	-0.0121	-2.5 to 2.5	Pass
-30	3.8	-7.589	-0.0097				-2.5 to 2.5	Pass				
-20	3.8	-9.257	-0.0118				-2.5 to 2.5	Pass				
-10	3.8	-9.035	-0.0116				-2.5 to 2.5	Pass				
0	3.8	-8.939	-0.0114				-2.5 to 2.5	Pass				
10	3.8	-6.540	-0.0084				-2.5 to 2.5	Pass				
30	3.8	-6.471	-0.0083				-2.5 to 2.5	Pass				
40	3.8	-10.513	-0.0134				-2.5 to 2.5	Pass				
50	3.8	-8.315	-0.0106	-2.5 to 2.5	Pass							
782	50	0	20	3.46	-7.312	-0.0094	-2.5 to 2.5	Pass				
				3.8	-6.244	-0.0080	-2.5 to 2.5	Pass				
				4.35	-5.787	-0.0074	-2.5 to 2.5	Pass				
			-30	3.8	-3.340	-0.0043	-2.5 to 2.5	Pass				
			-20	3.8	-2.526	-0.0032	-2.5 to 2.5	Pass				
			-10	3.8	-2.815	-0.0036	-2.5 to 2.5	Pass				
			0	3.8	-5.938	-0.0076	-2.5 to 2.5	Pass				
			10	3.8	-4.600	-0.0059	-2.5 to 2.5	Pass				
			30	3.8	-6.199	-0.0079	-2.5 to 2.5	Pass				
			40	3.8	-2.953	-0.0038	-2.5 to 2.5	Pass				
50	3.8	-3.861	-0.0049	-2.5 to 2.5	Pass							

3. Modulation Characteristics

3.1 B13_5MHz



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3.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	25	0	Refer To Test Graph		Pass
16QAM	782	25	0	Refer To Test Graph		Pass
64QAM	782	25	0	Refer To Test Graph		Pass



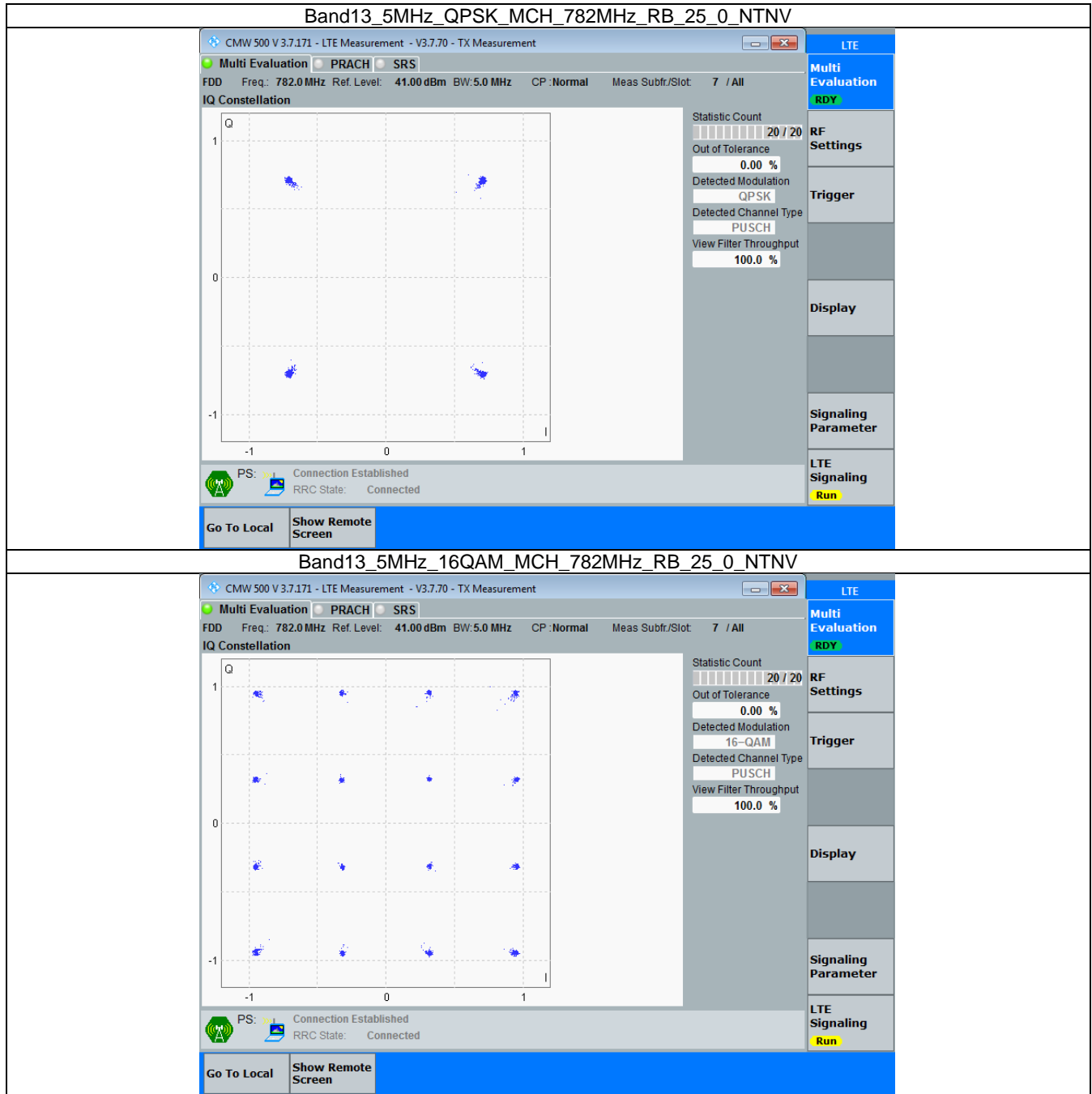
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3.1.2 Test Graph

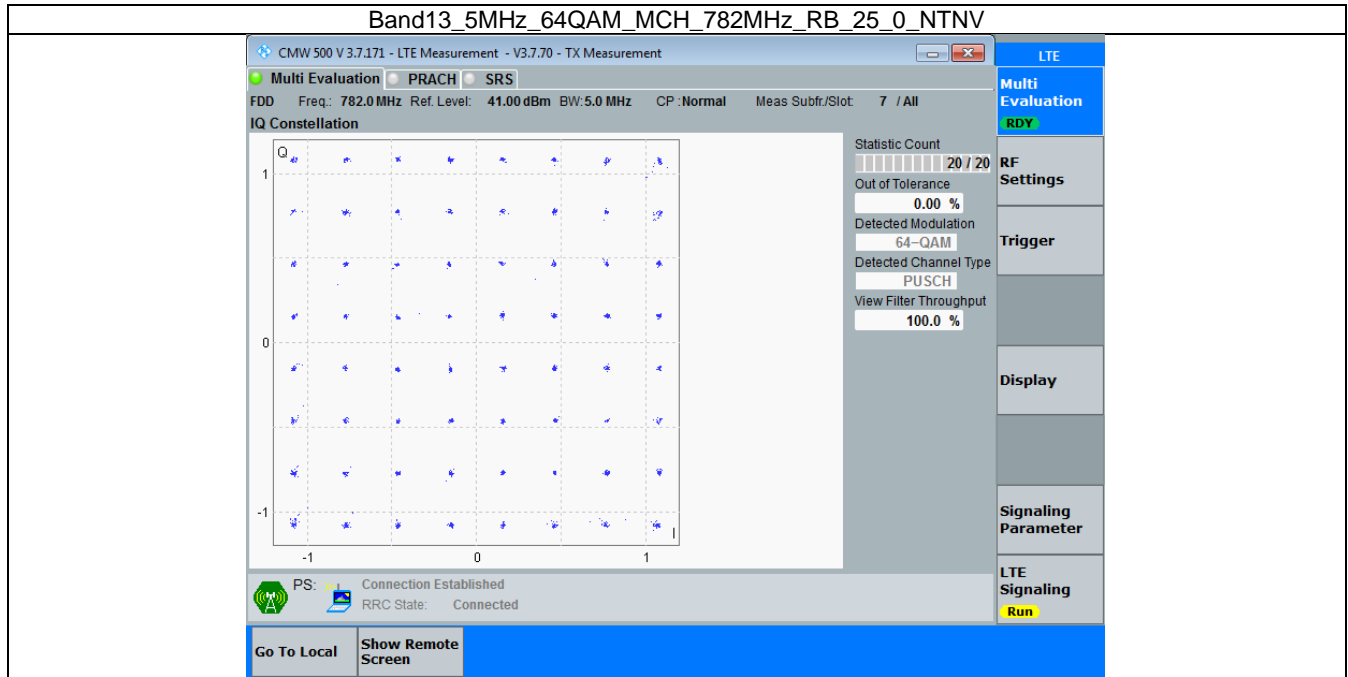


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3.2 B13_10MHz

3.2.1 Test Result

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



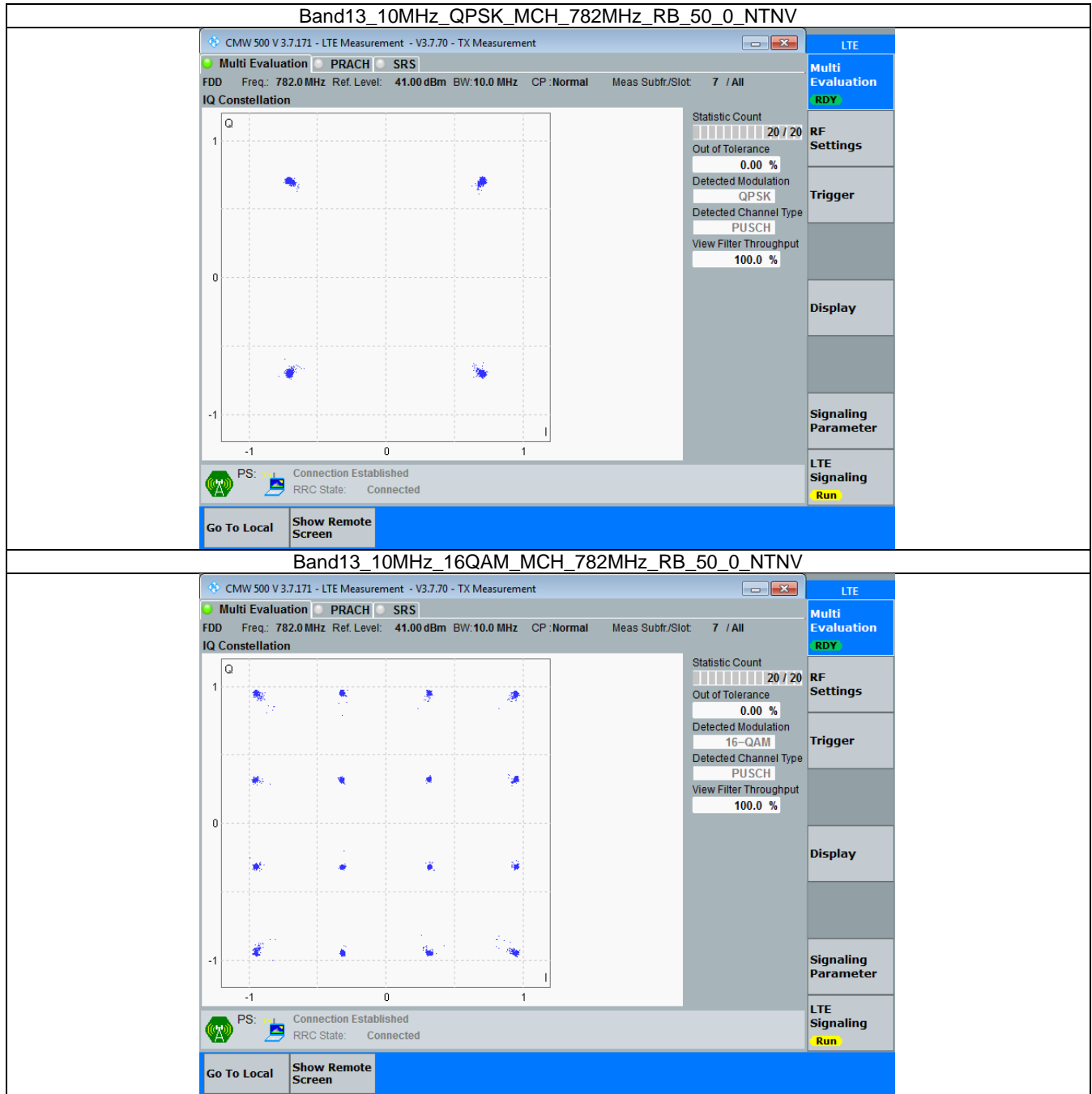
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3.2.2 Test Graph



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Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV

CMW 500 V 3.7.171 - LTE Measurement - V3.7.70 - TX Measurement
 Multi Evaluation PRACH SRS
 FDD Freq: 782.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot 7 / All

LTE

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 64-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established
RRC State: Connected

Multi Evaluation RDY

Go To Local Show Remote Screen

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling Run



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4. 99% & 26dB Bandwidth

4.1 Band13_OBW

4.1.1 Test Result

Band: 13 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	779.5	25	0	4.587	Pass
		782	25	0	4.557	Pass
		784.5	25	0	4.563	Pass
	16QAM	779.5	25	0	4.551	Pass
		782	25	0	4.585	Pass
		784.5	25	0	4.564	Pass
	64QAM	779.5	25	0	4.574	Pass
		782	25	0	4.588	Pass
		784.5	25	0	4.560	Pass
10	QPSK	782	50	0	9.110	Pass
		782	50	0	9.094	Pass
		782	50	0	9.074	Pass
	16QAM	782	50	0	9.115	Pass
		782	50	0	9.091	Pass
		782	50	0	9.067	Pass
	64QAM	782	50	0	9.089	Pass
		782	50	0	9.065	Pass
		782	50	0	9.092	Pass

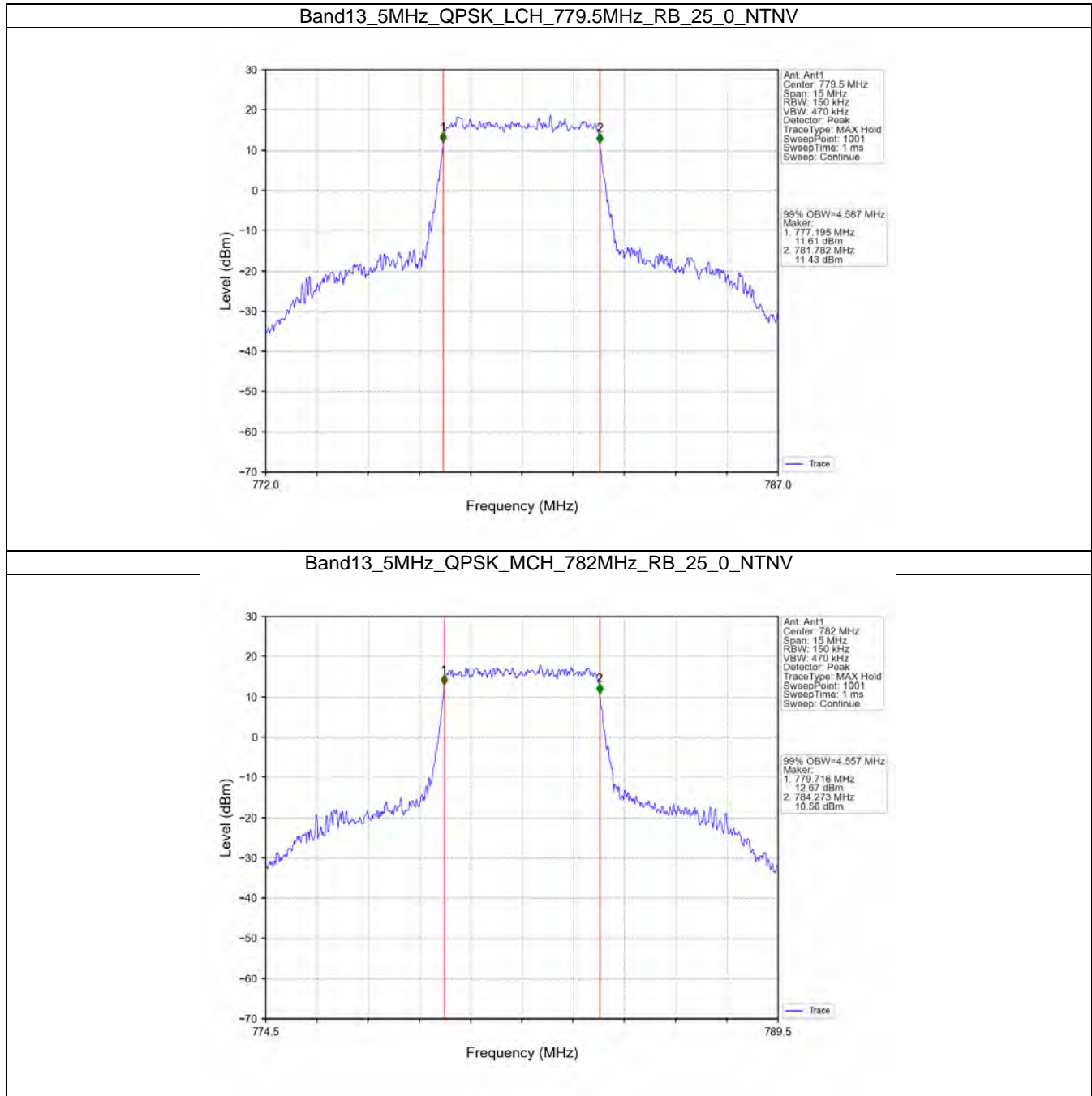


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4.1.2 Test Graph



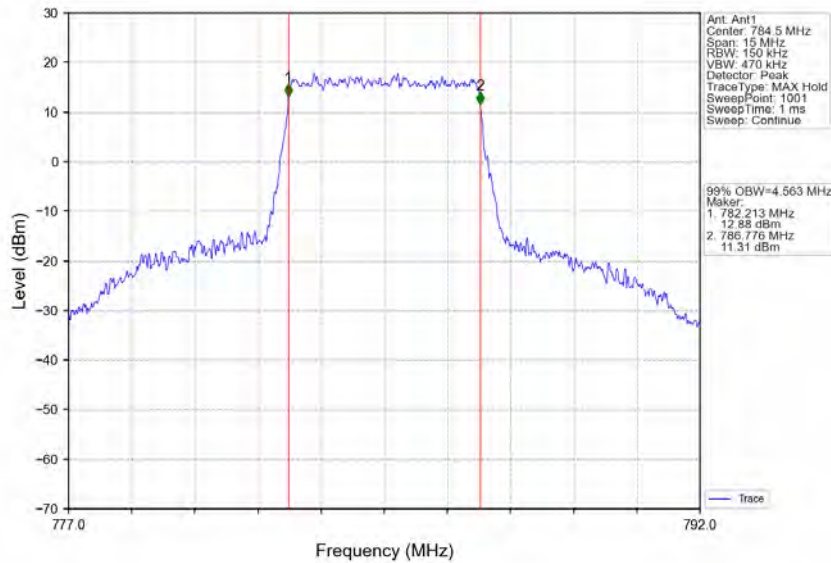
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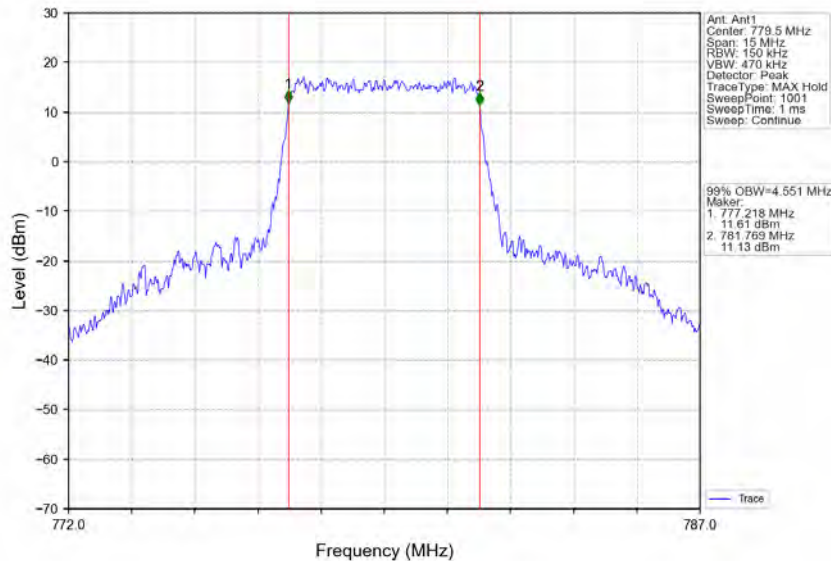
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



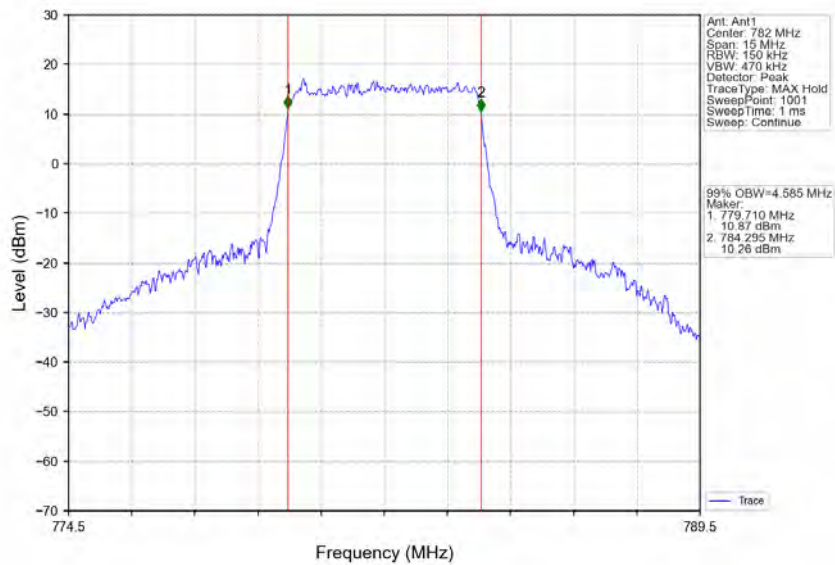
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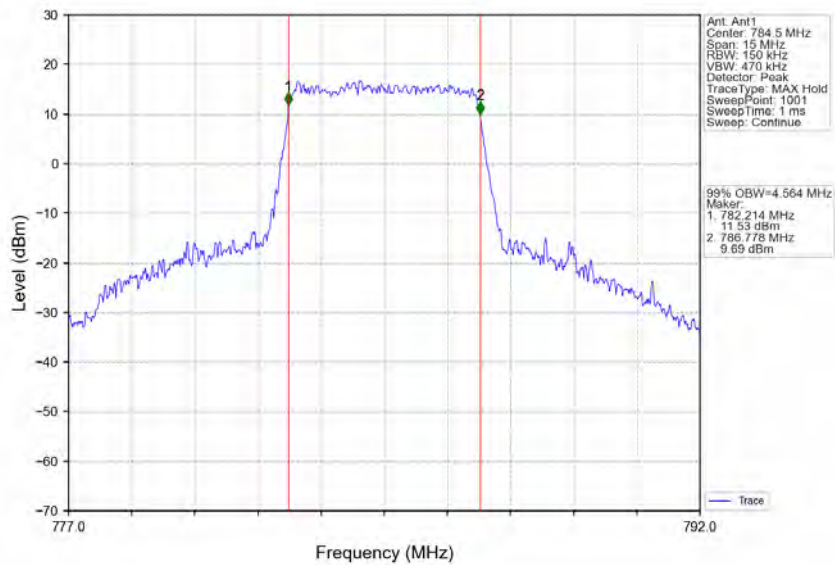
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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



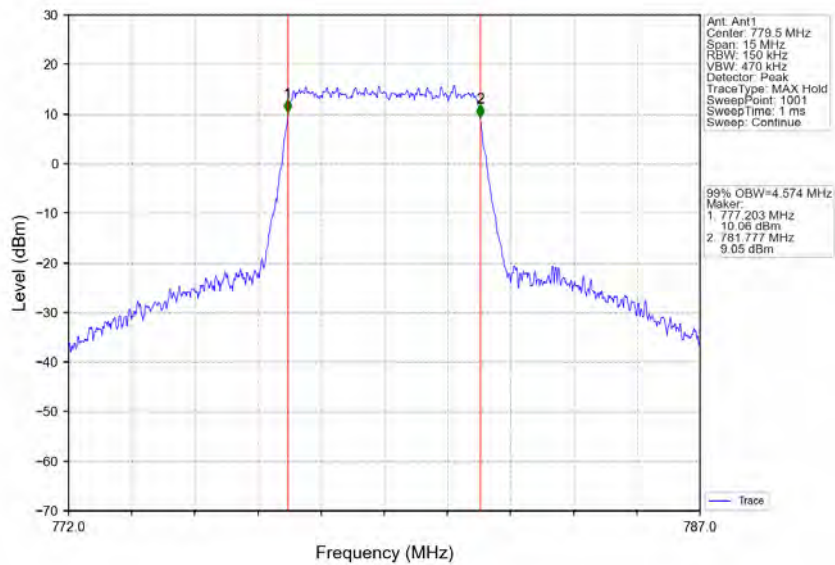
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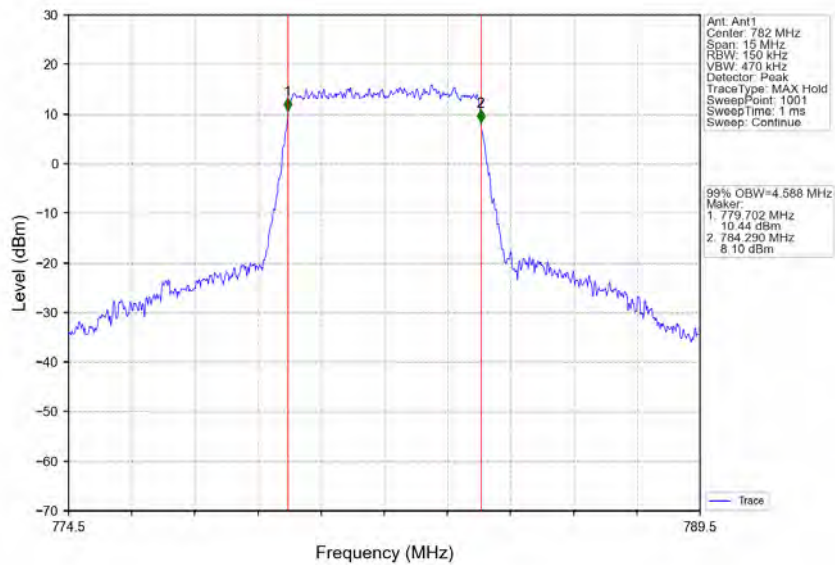
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Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV

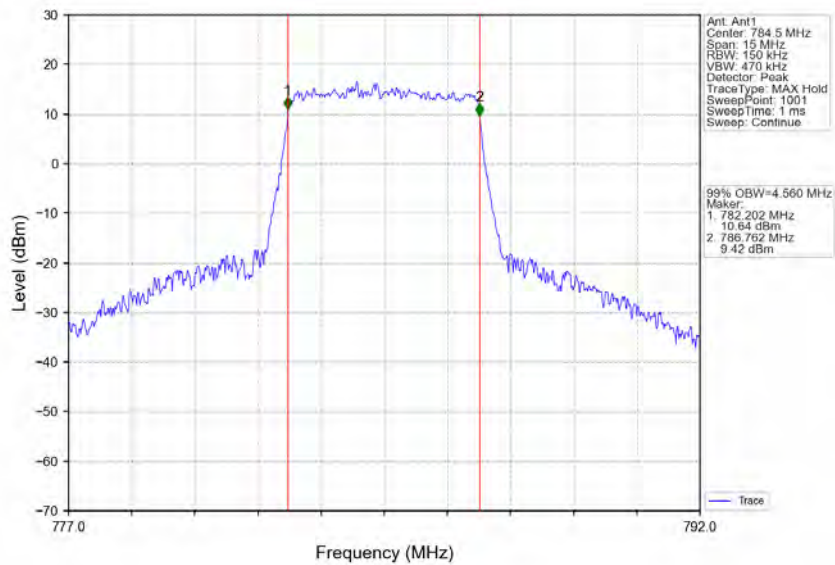


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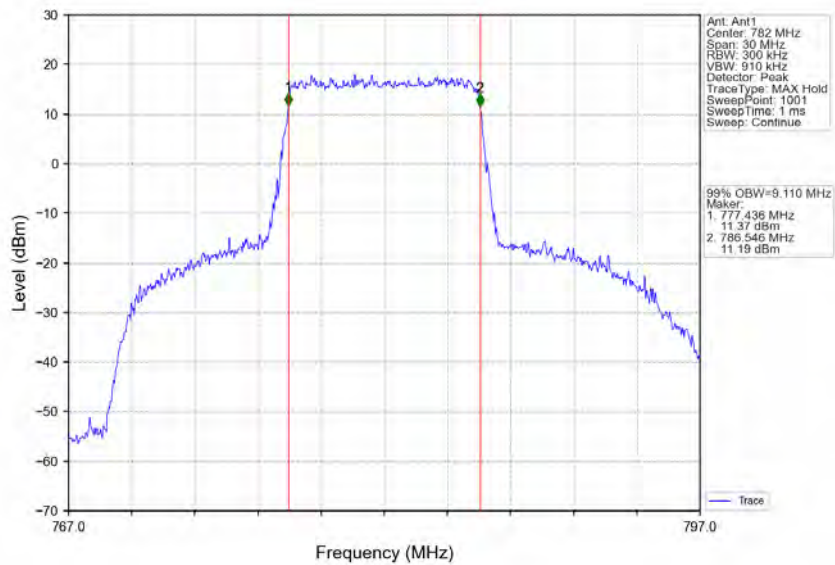
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Band13_5MHz_64QAM_HCH_784.5MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



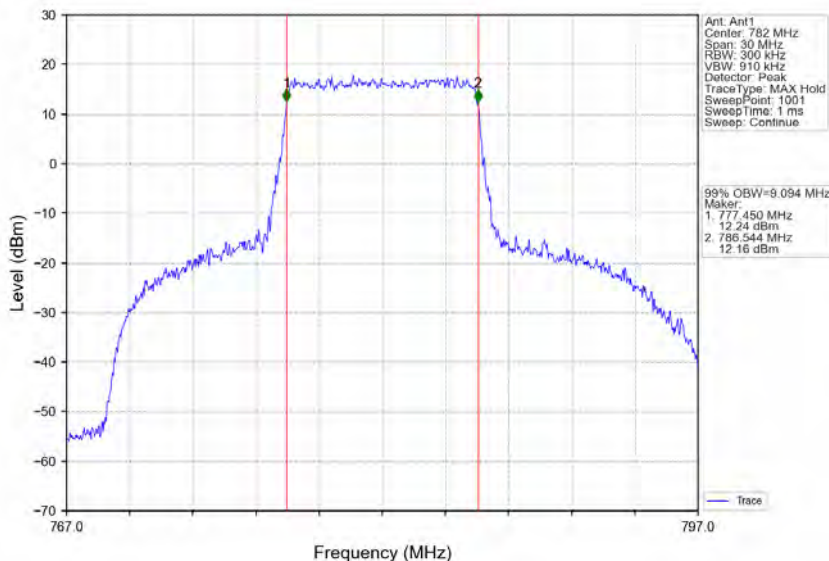
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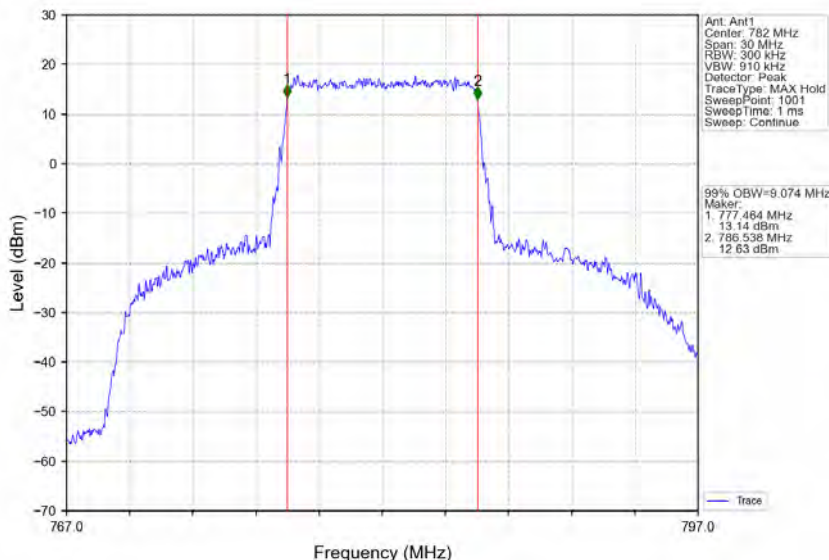
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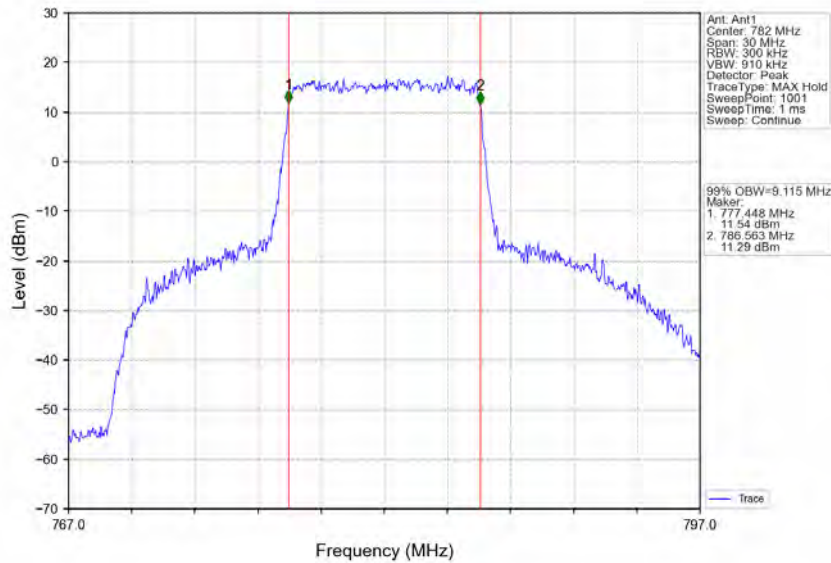
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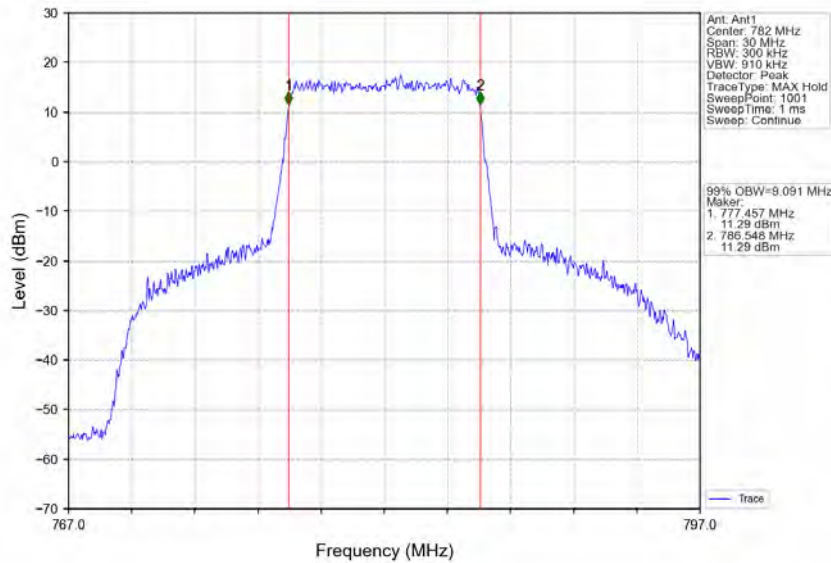
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Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



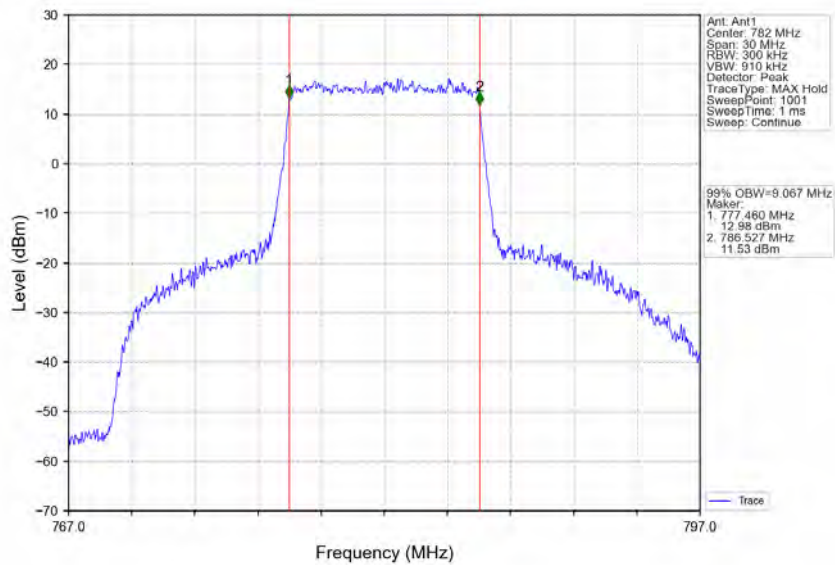
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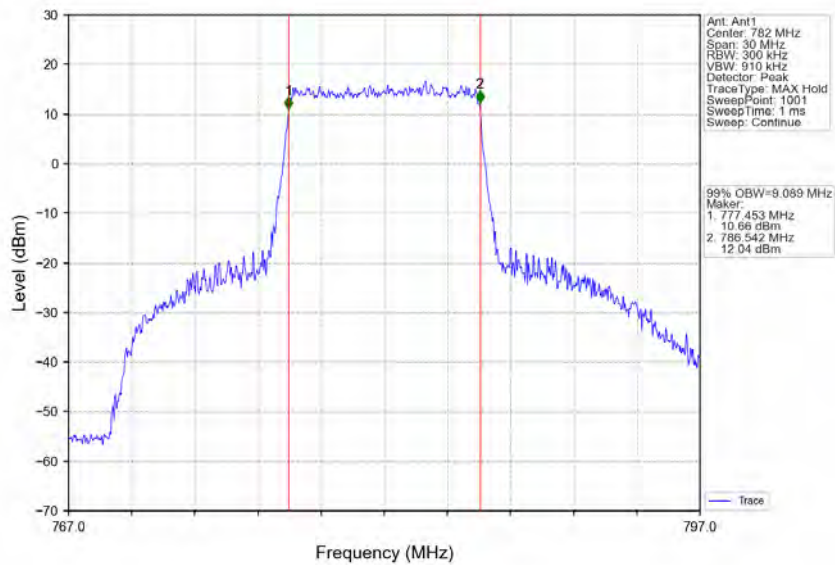
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Band13_10MHz_64QAM_LCH_782MHz_RB_50_0_NTNV



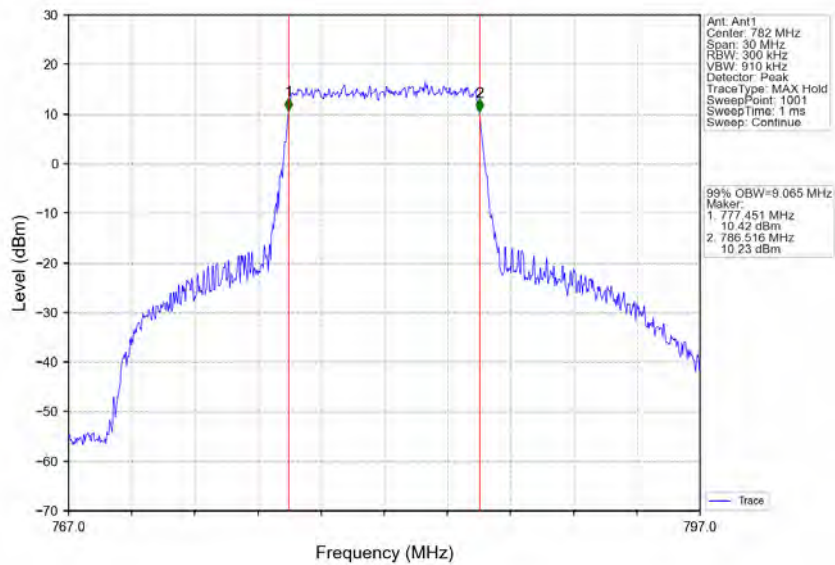
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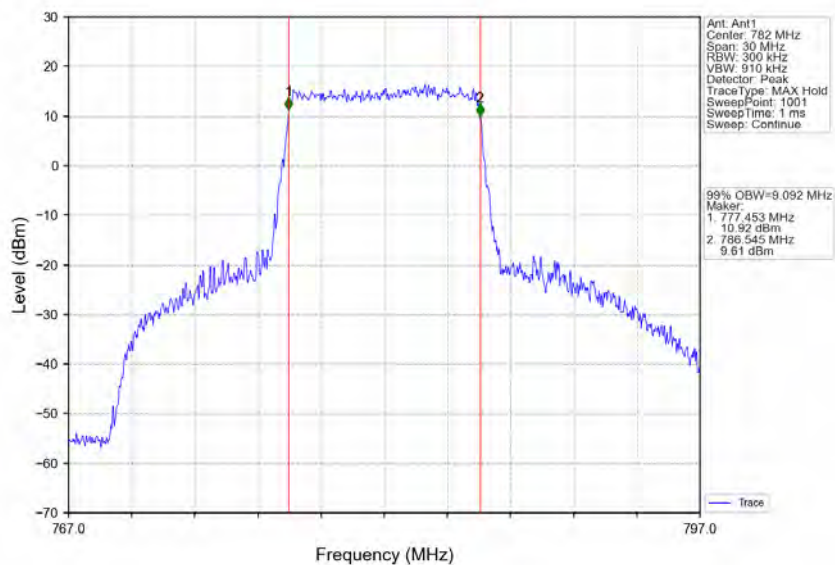
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4.2 Band13_XDB

4.2.1 Test Result

Band: 13 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	779.5	25	0	5.264	Pass
		782	25	0	5.249	Pass
		784.5	25	0	5.290	Pass
	16QAM	779.5	25	0	5.366	Pass
		782	25	0	5.251	Pass
		784.5	25	0	5.305	Pass
	64QAM	779.5	25	0	5.249	Pass
		782	25	0	5.318	Pass
		784.5	25	0	5.200	Pass
10	QPSK	782	50	0	10.391	Pass
		782	50	0	10.384	Pass
		782	50	0	10.333	Pass
	16QAM	782	50	0	10.181	Pass
		782	50	0	10.183	Pass
		782	50	0	10.184	Pass
	64QAM	782	50	0	10.187	Pass
		782	50	0	10.205	Pass
		782	50	0	10.142	Pass



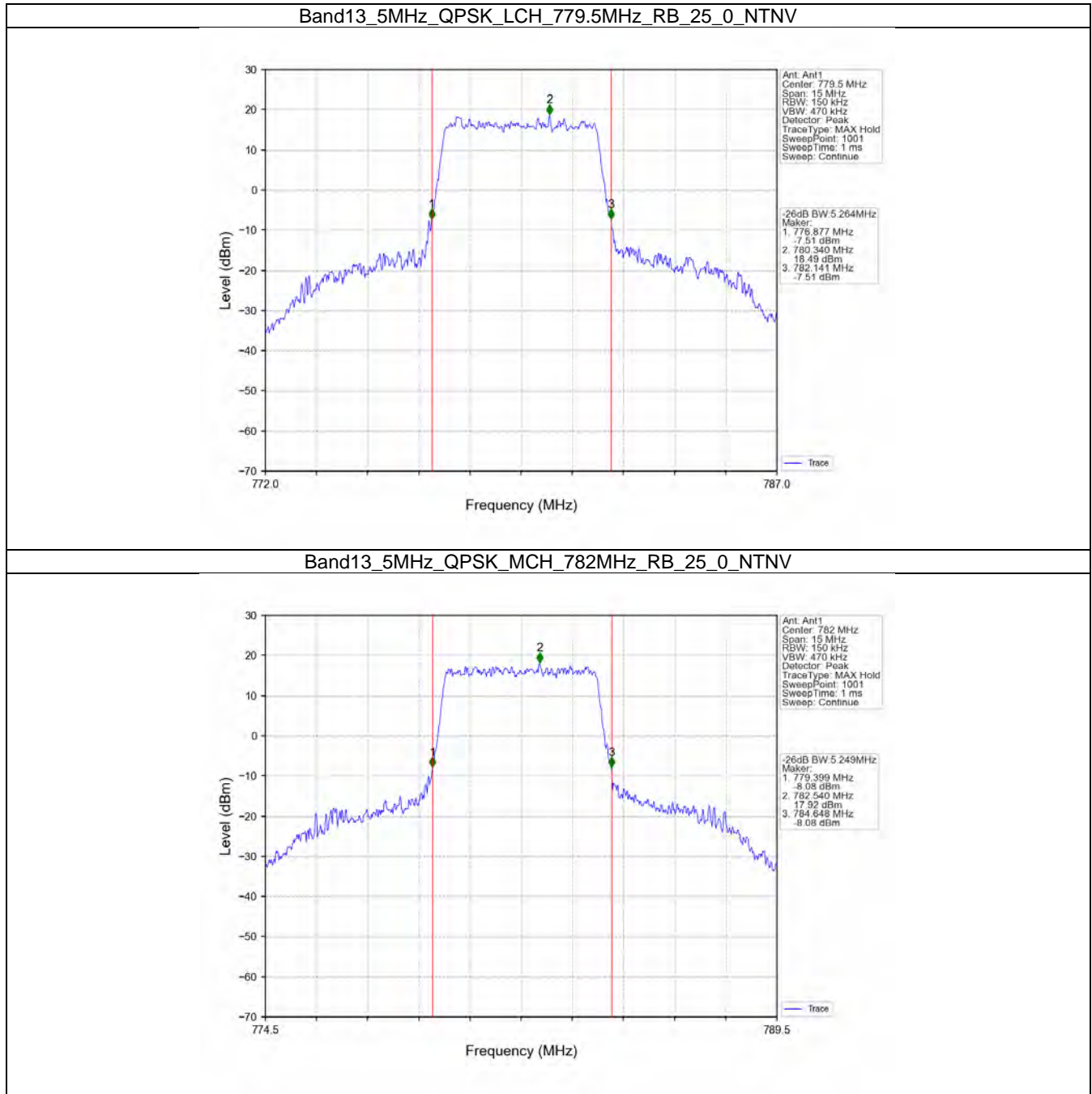
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4.2.2 Test Graph



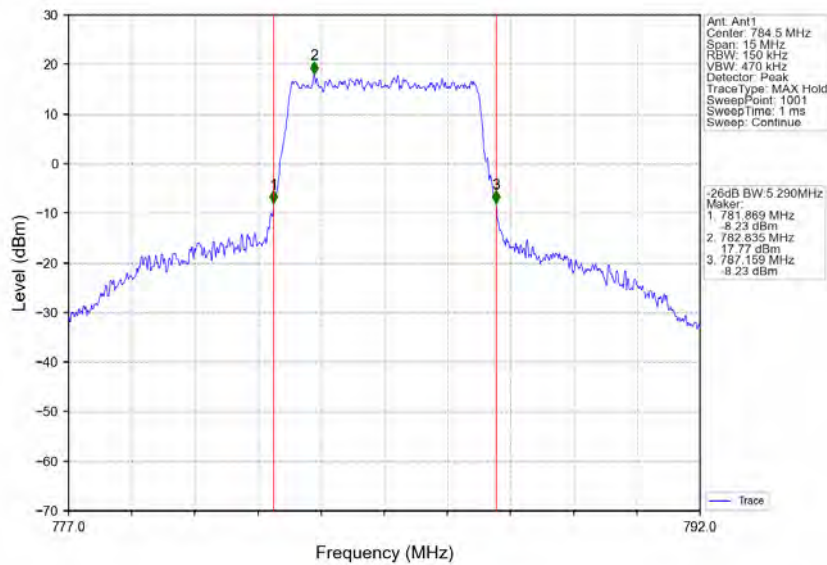
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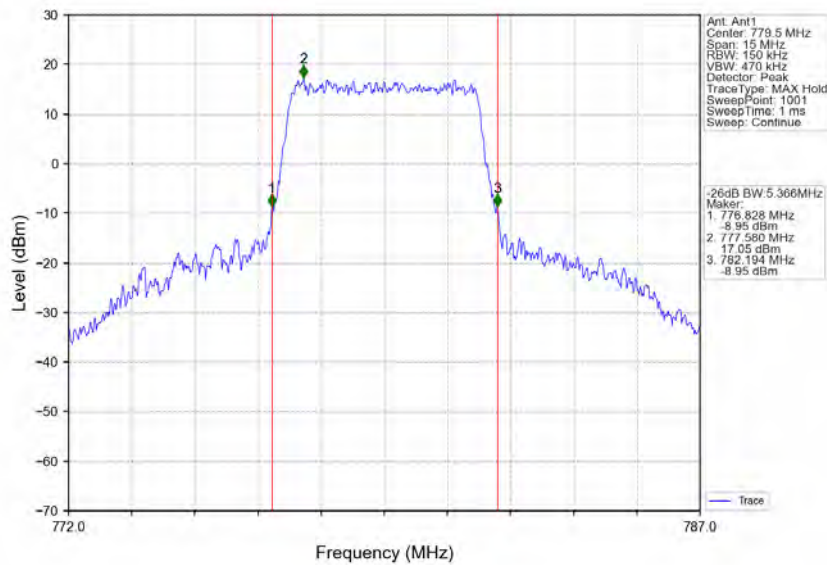
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



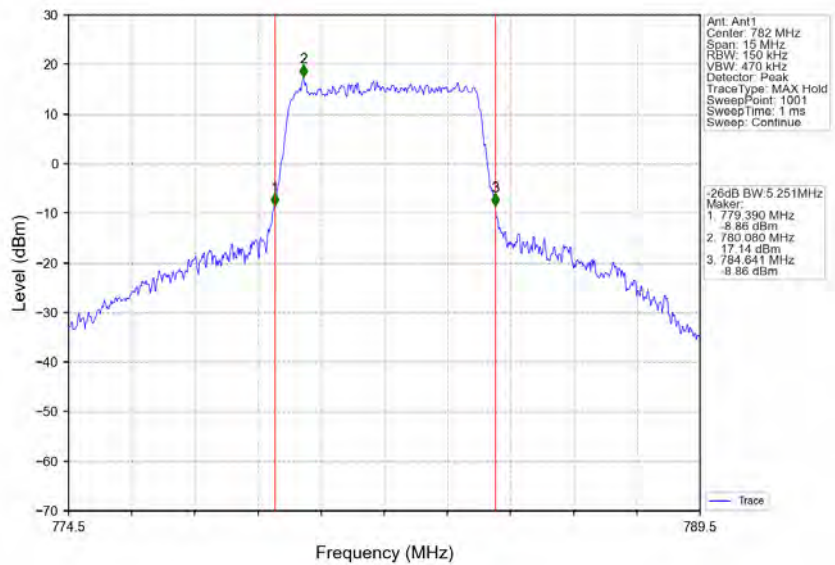
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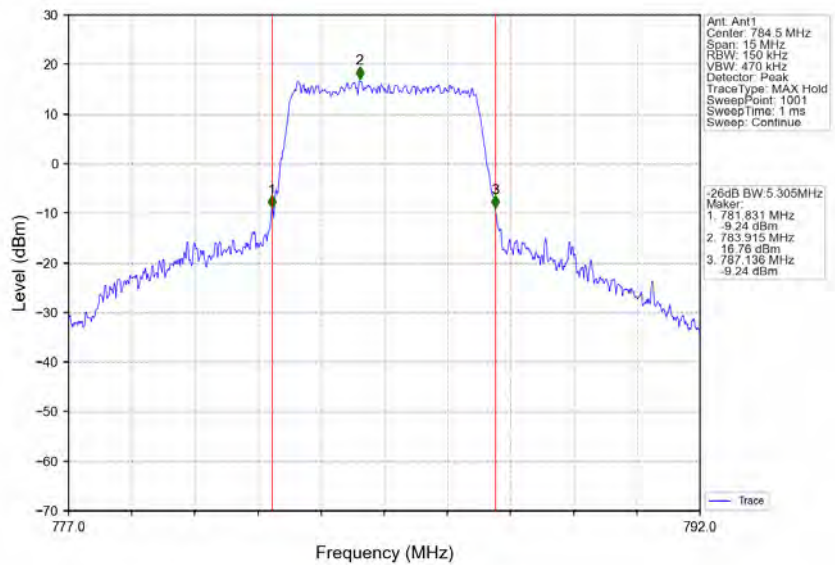
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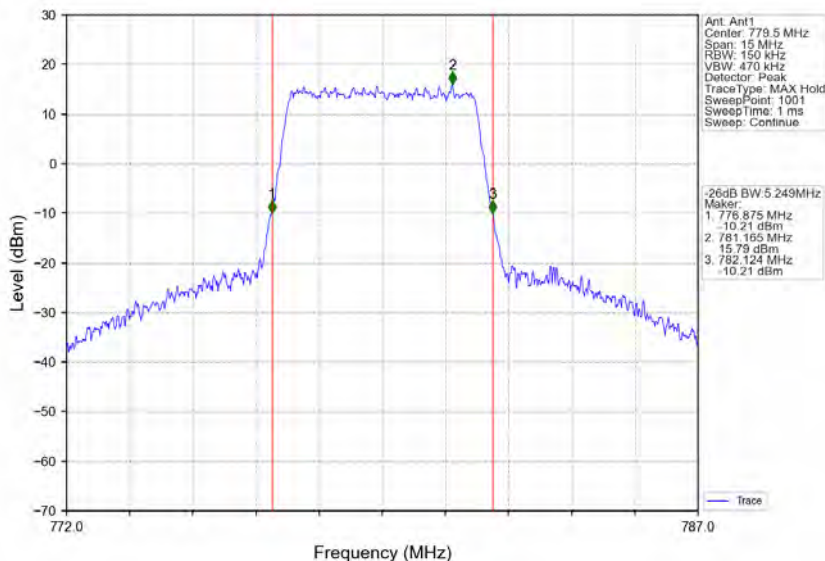
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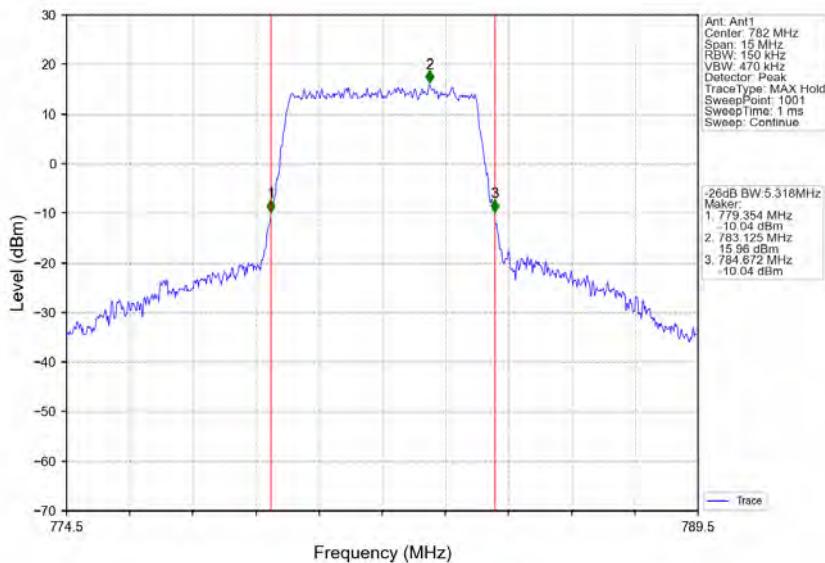
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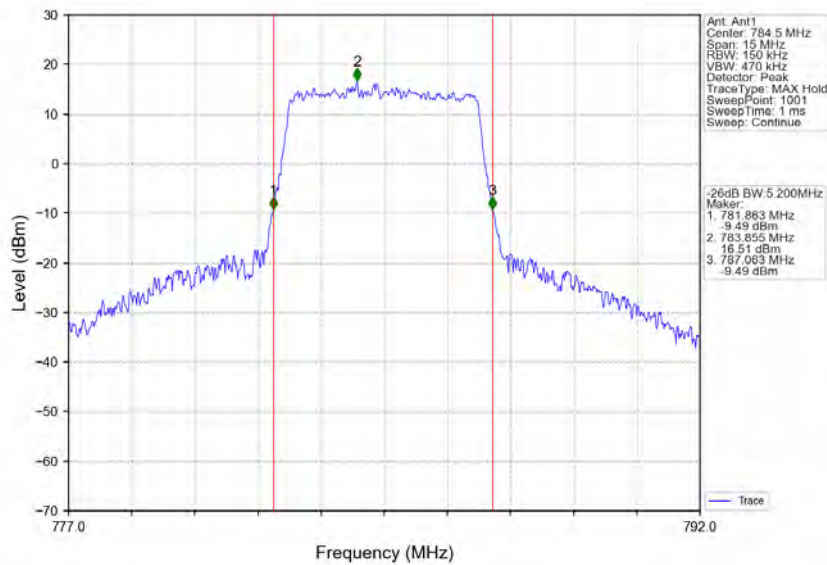
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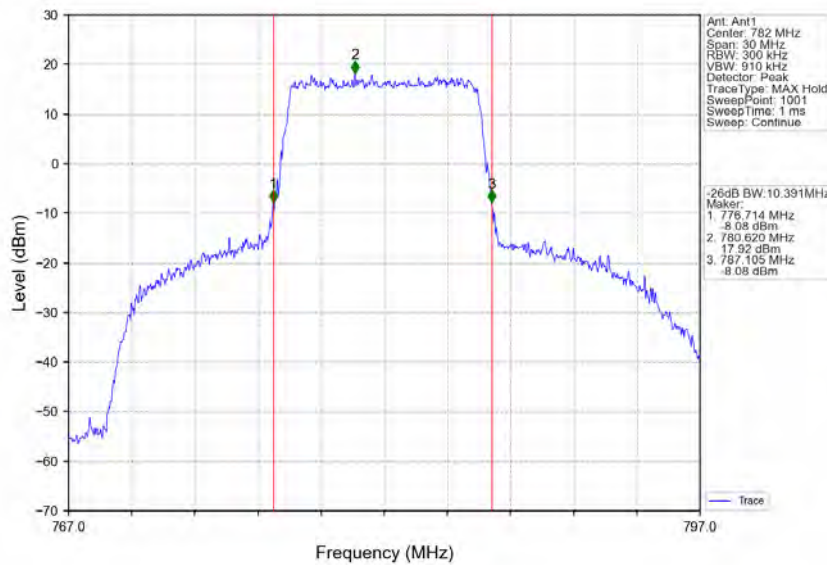
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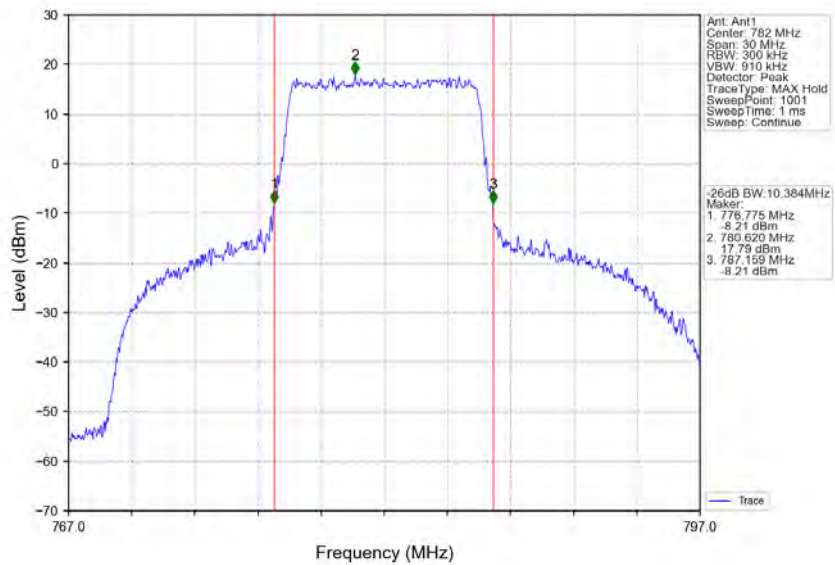
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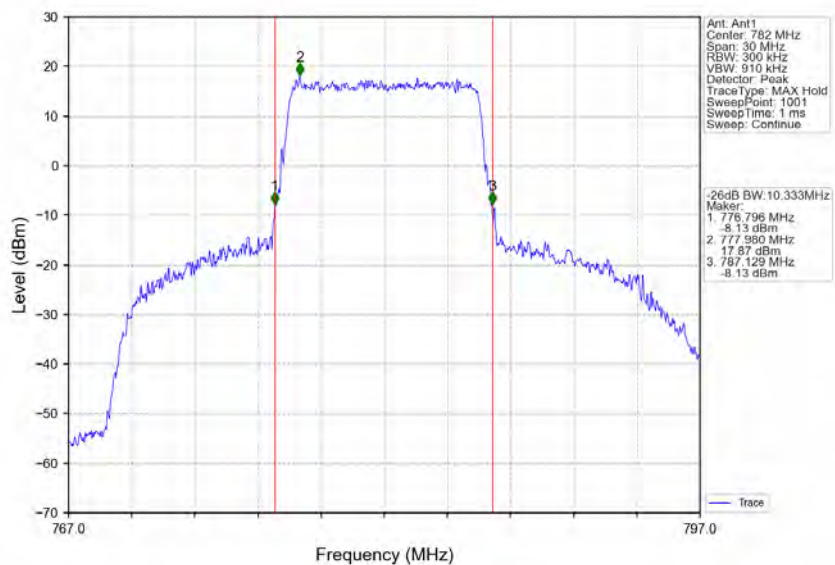
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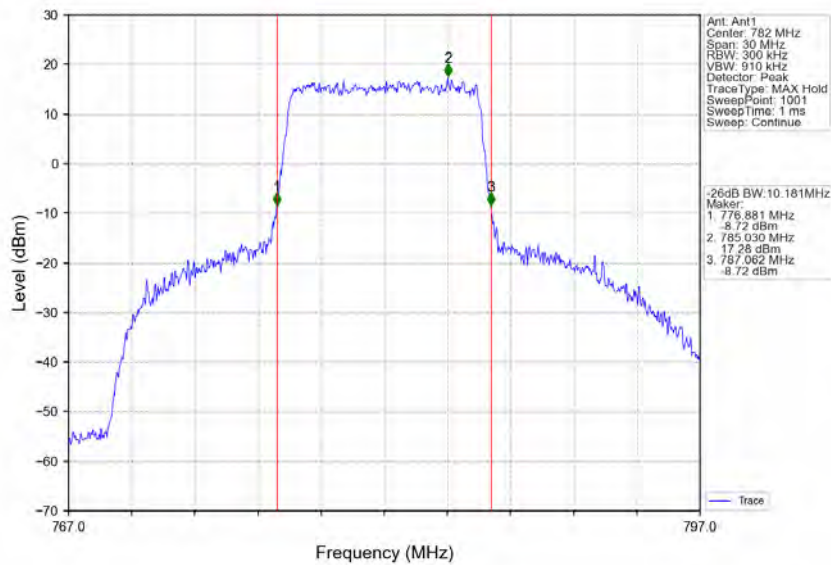
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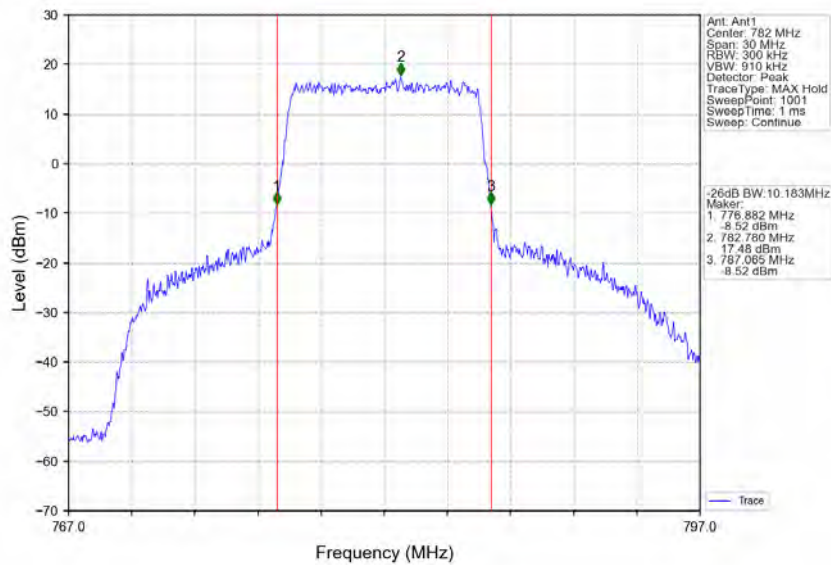
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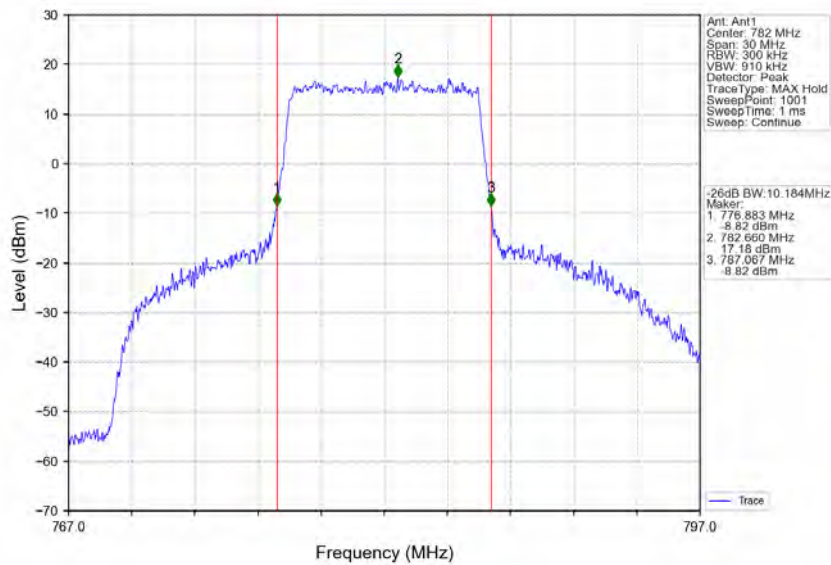
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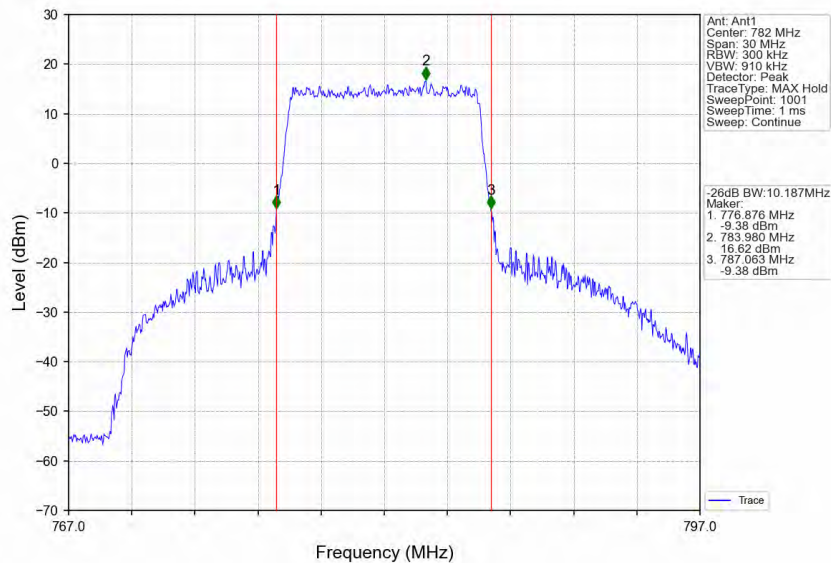
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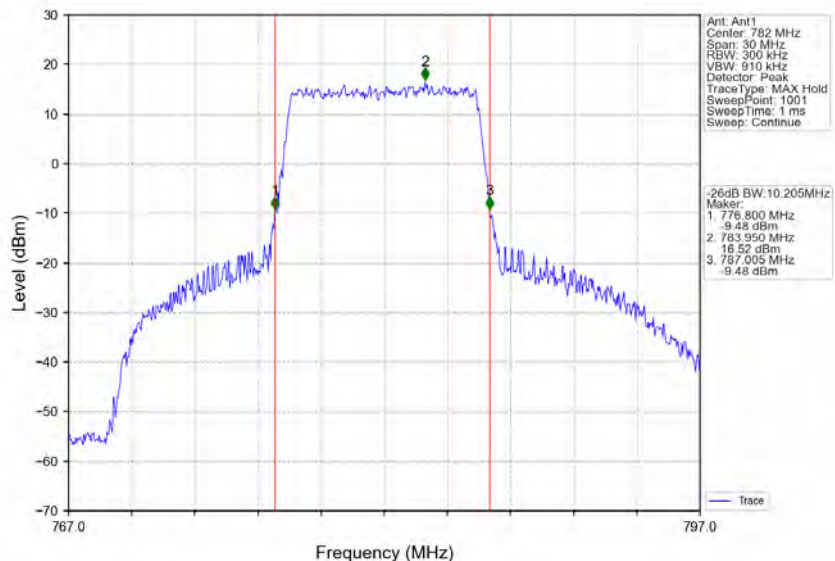
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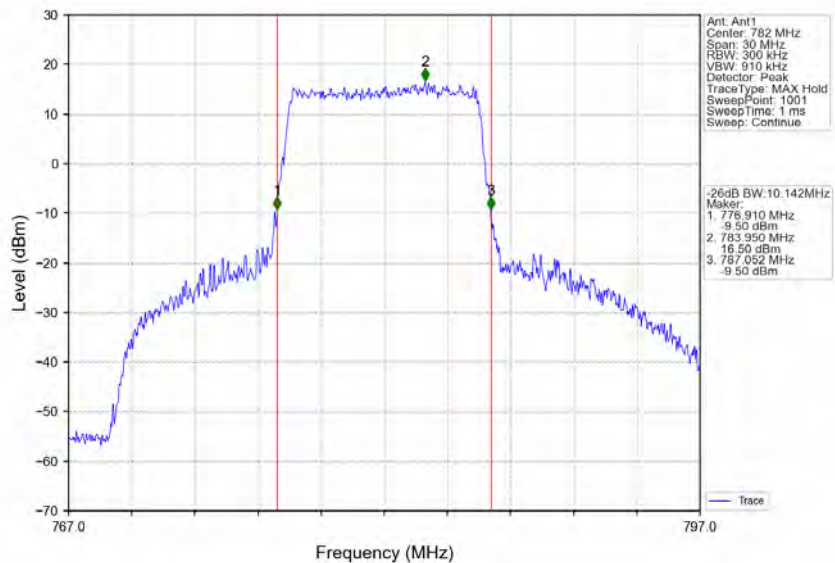
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5. Peak-Average Ratio

5.1 B13_5MHz

5.1.1 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	5.13	<=13	Pass
	782	25	0	5.06	<=13	Pass
	784.5	25	0	5.01	<=13	Pass
16QAM	779.5	25	0	5.96	<=13	Pass
	782	25	0	5.82	<=13	Pass
	784.5	25	0	5.76	<=13	Pass
64QAM	779.5	25	0	6.32	<=13	Pass
	782	25	0	6.17	<=13	Pass
	784.5	25	0	6.12	<=13	Pass



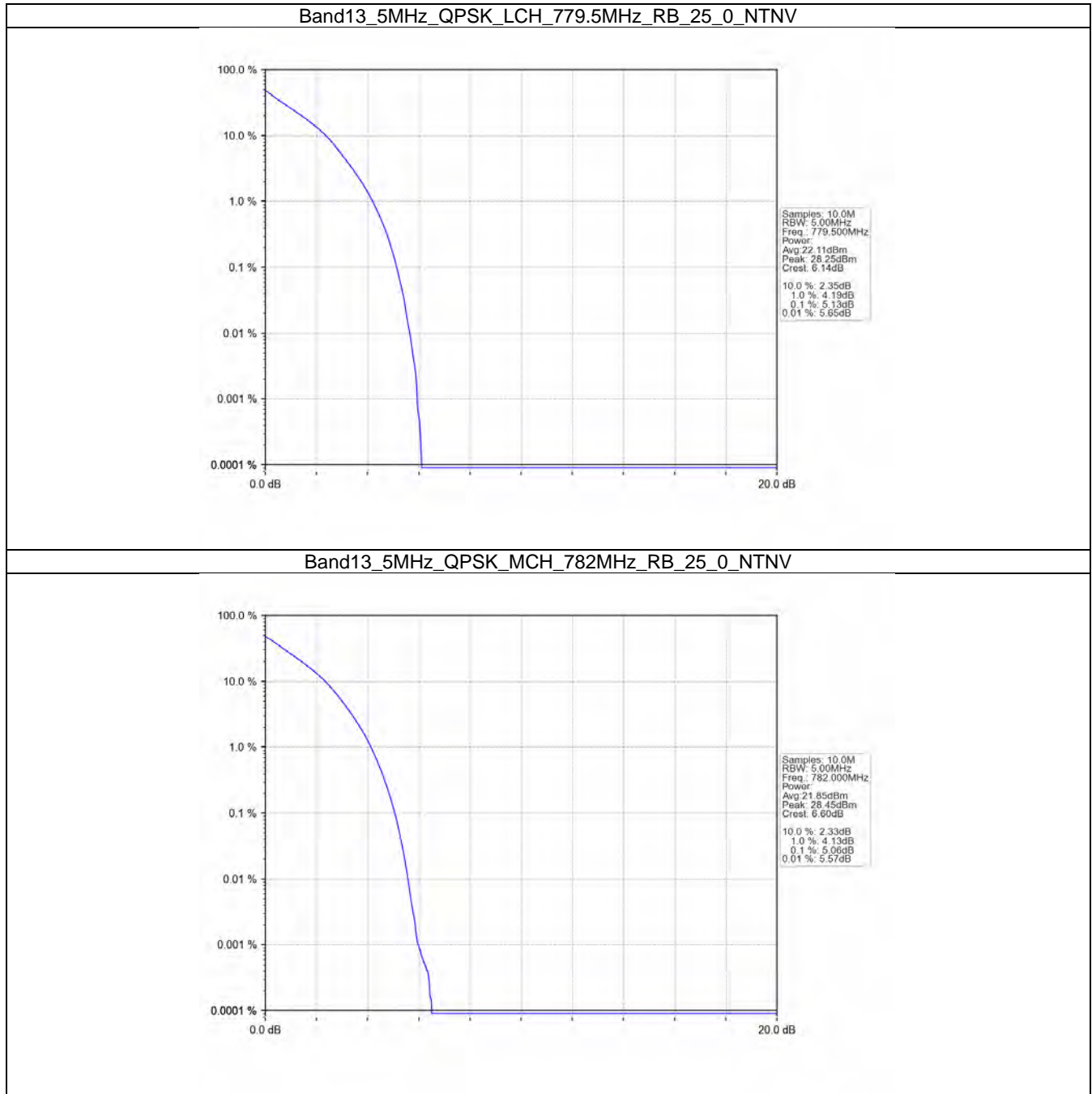
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5.1.2 Test Graph



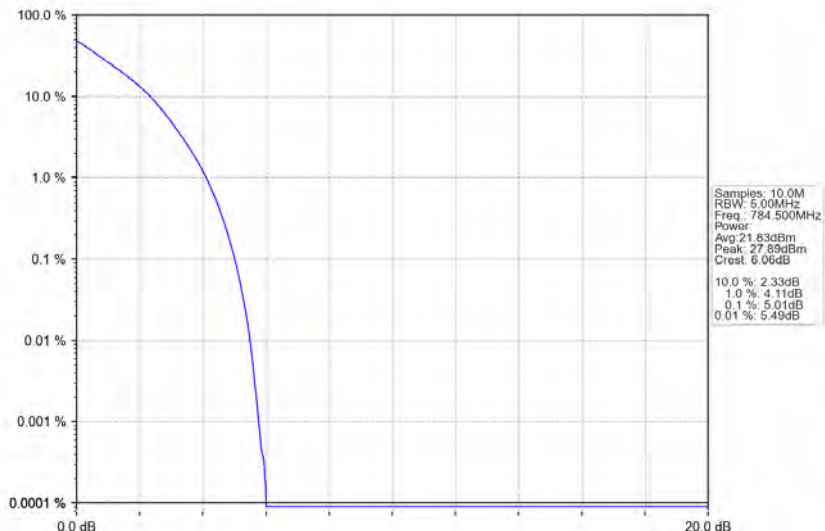
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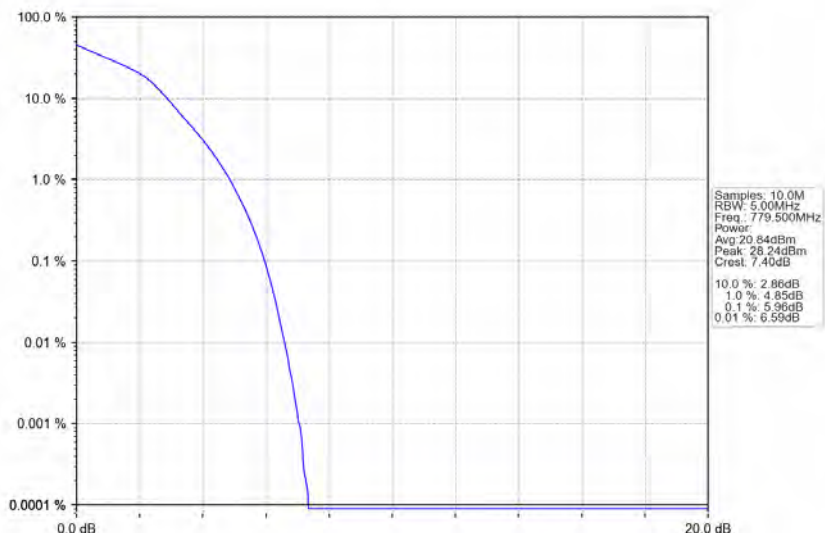
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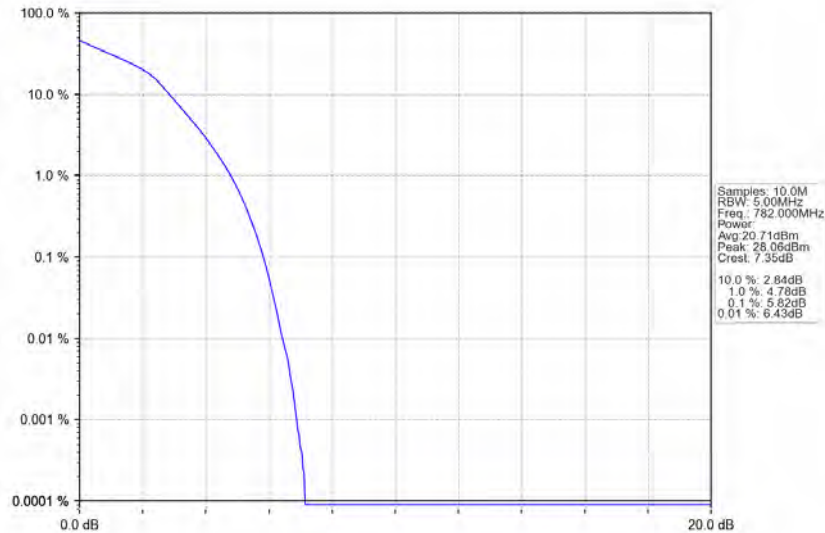
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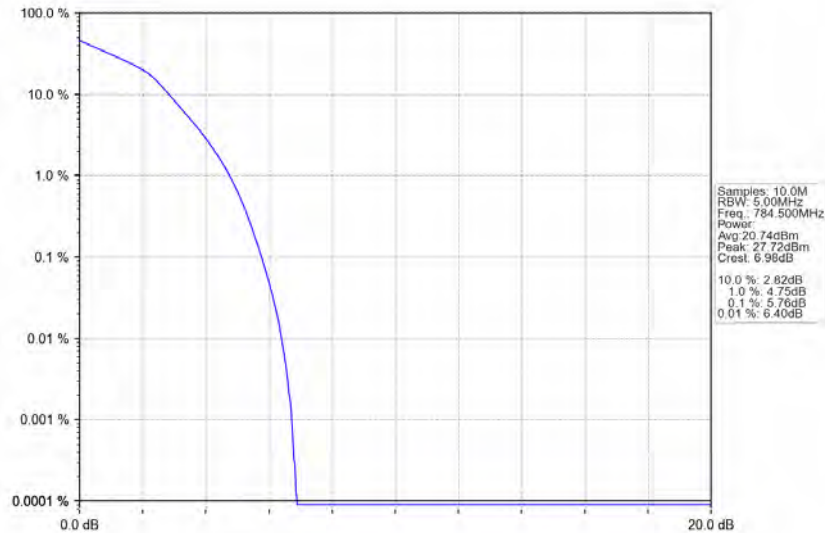
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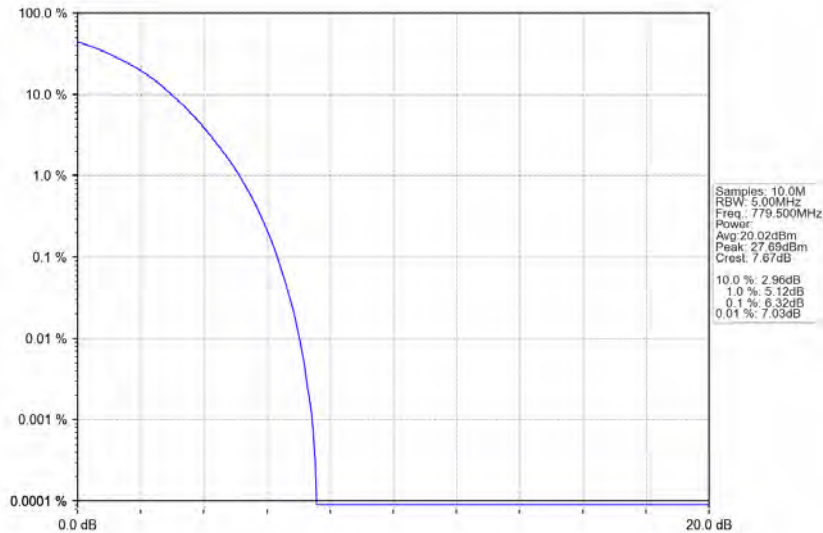
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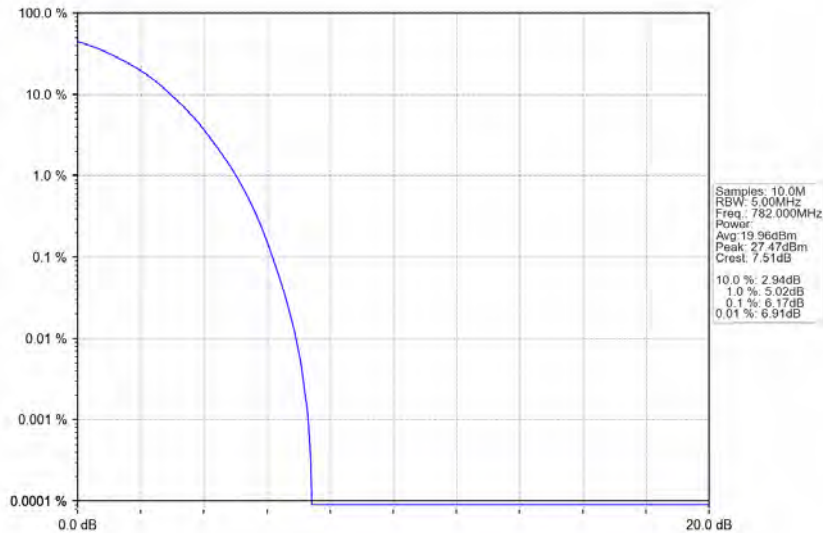
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Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



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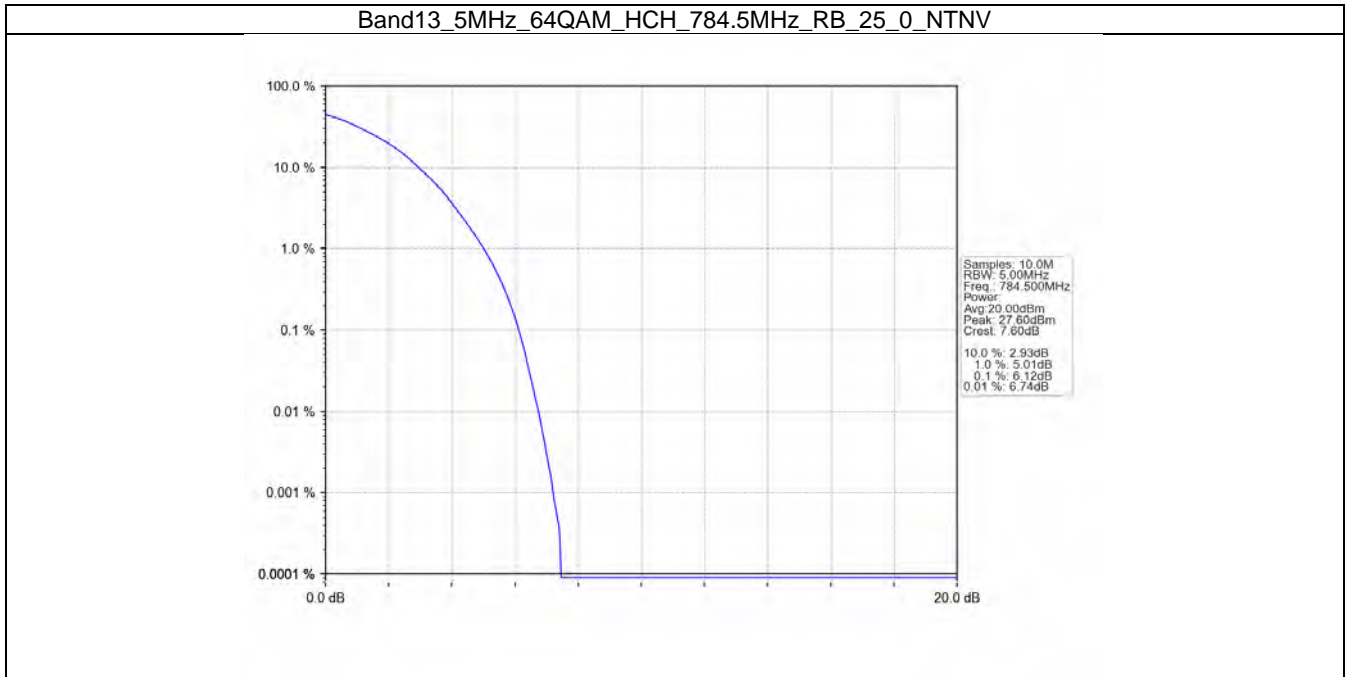
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5.2 B13_10MHz

5.2.1 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	5.47	<=13	Pass
	782	50	0	5.47	<=13	Pass
	782	50	0	5.46	<=13	Pass
16QAM	782	50	0	6.47	<=13	Pass
	782	50	0	6.46	<=13	Pass
	782	50	0	6.45	<=13	Pass
64QAM	782	50	0	6.69	<=13	Pass
	782	50	0	6.71	<=13	Pass
	782	50	0	6.69	<=13	Pass



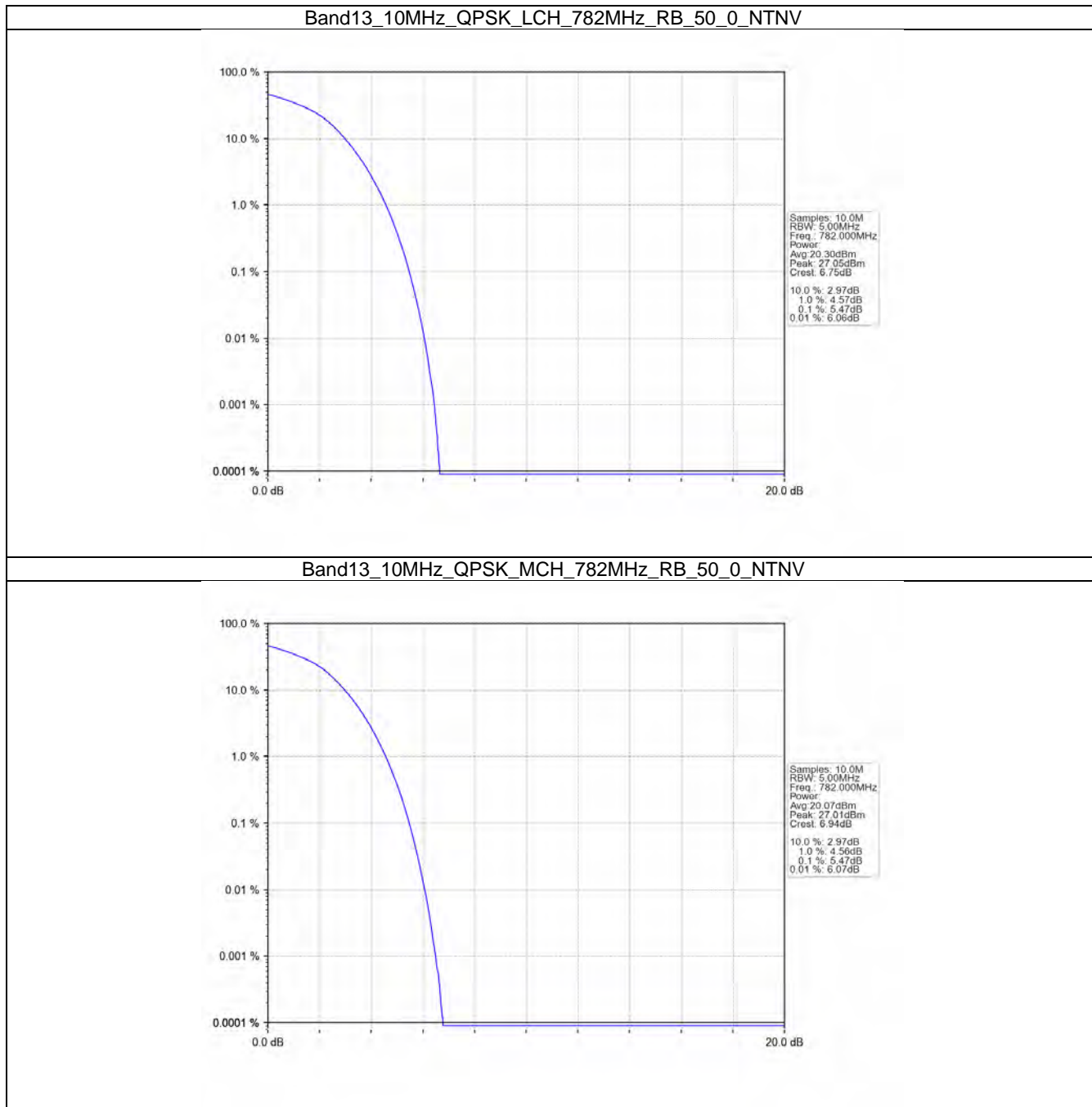
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5.2.2 Test Graph



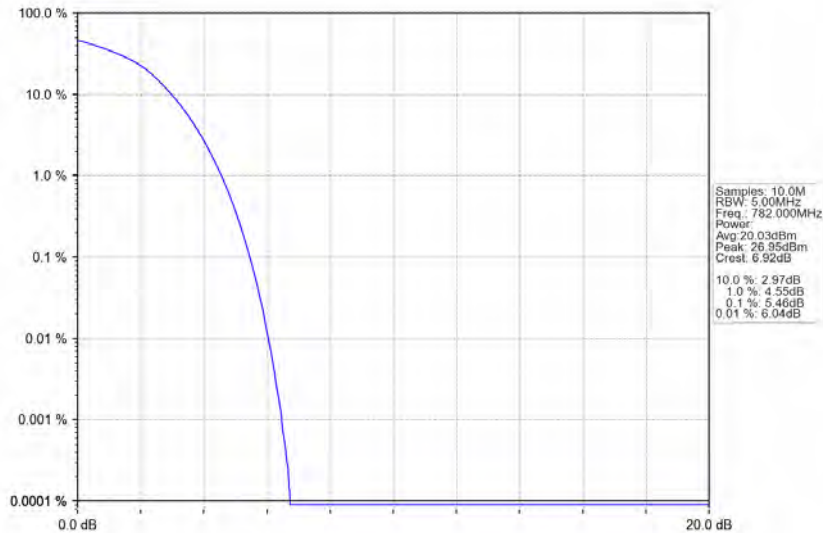
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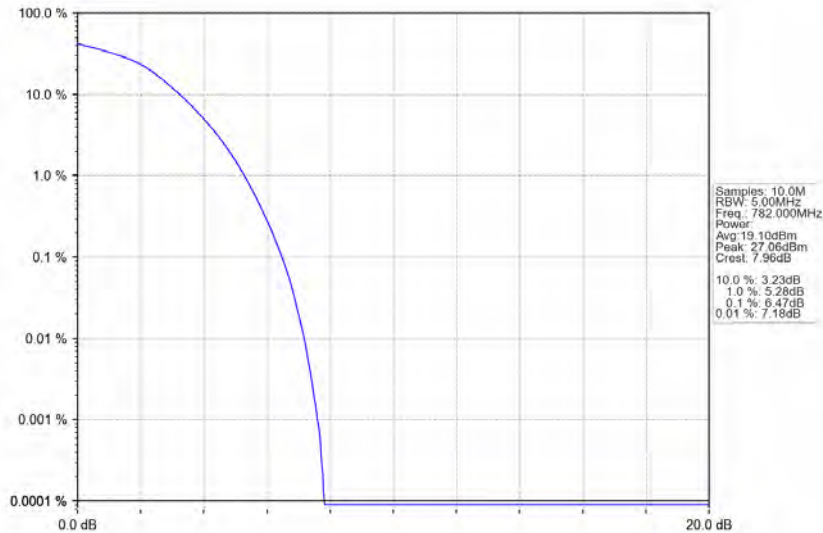
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Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



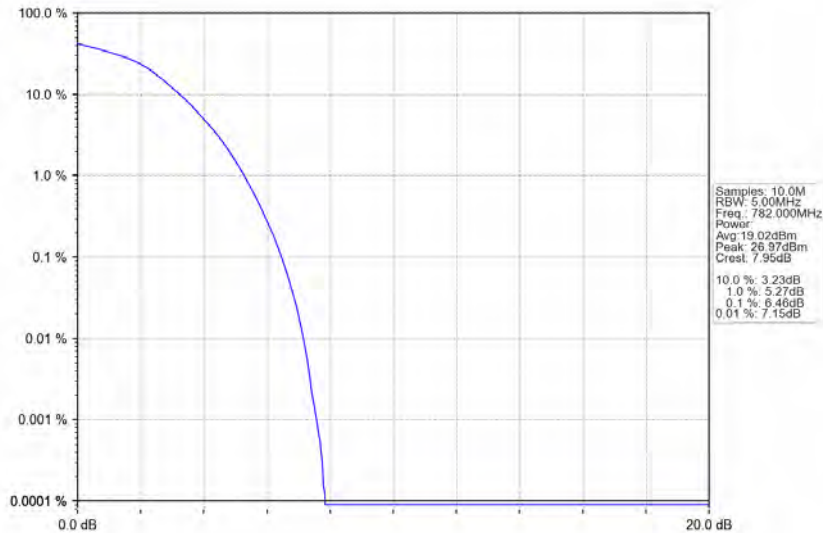
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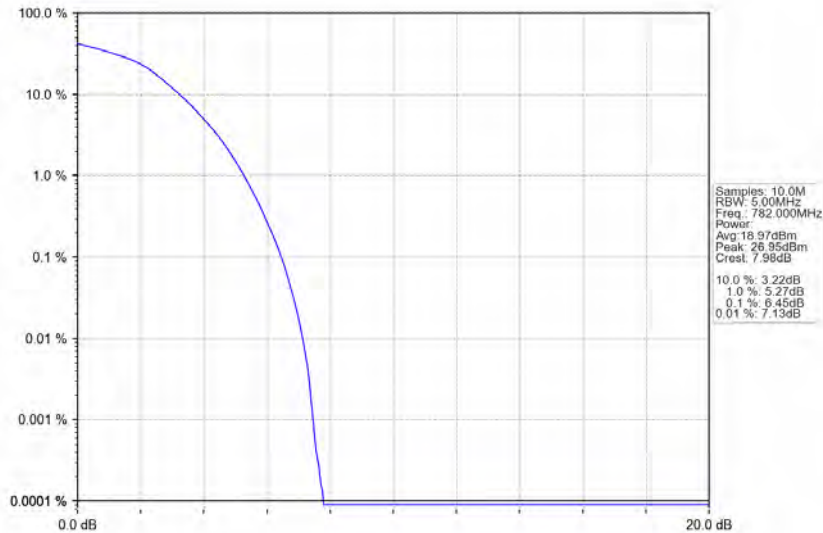
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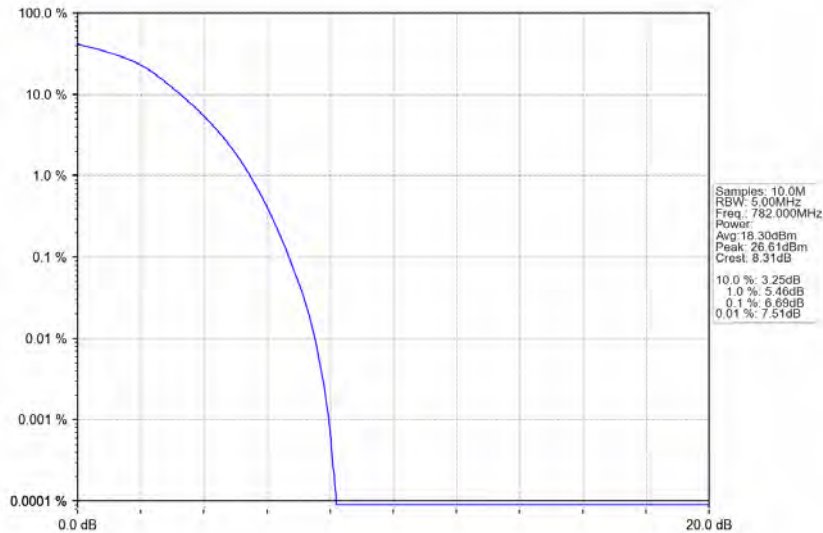
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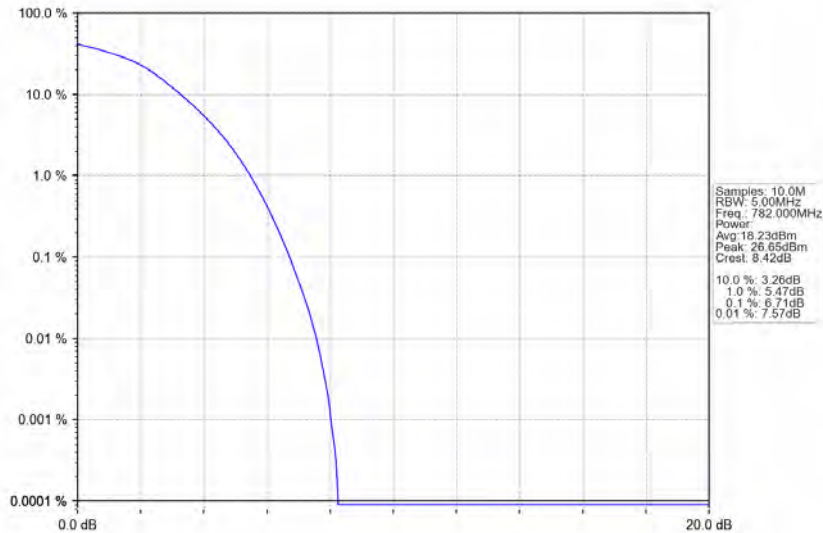
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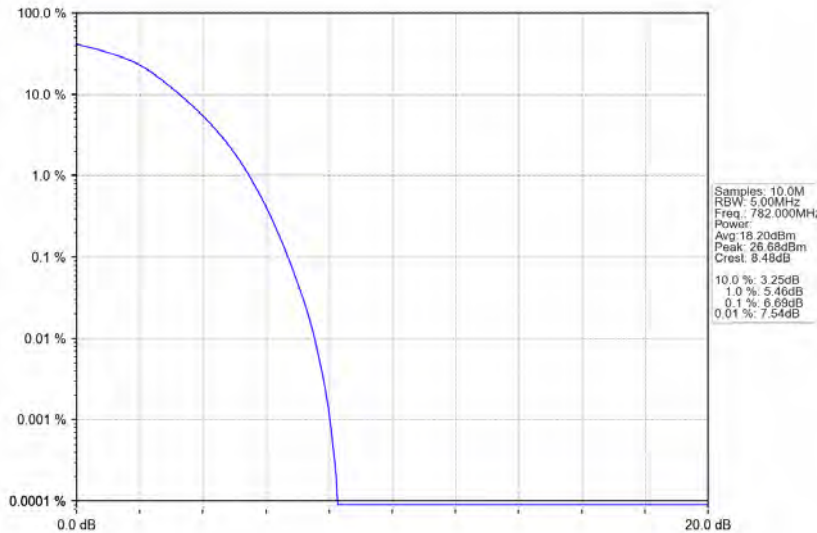
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6. Spurious Emission

6.1 B13_5MHz

6.1.1 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
			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
			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
			0	Refer To Test Graph		Pass
	784.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



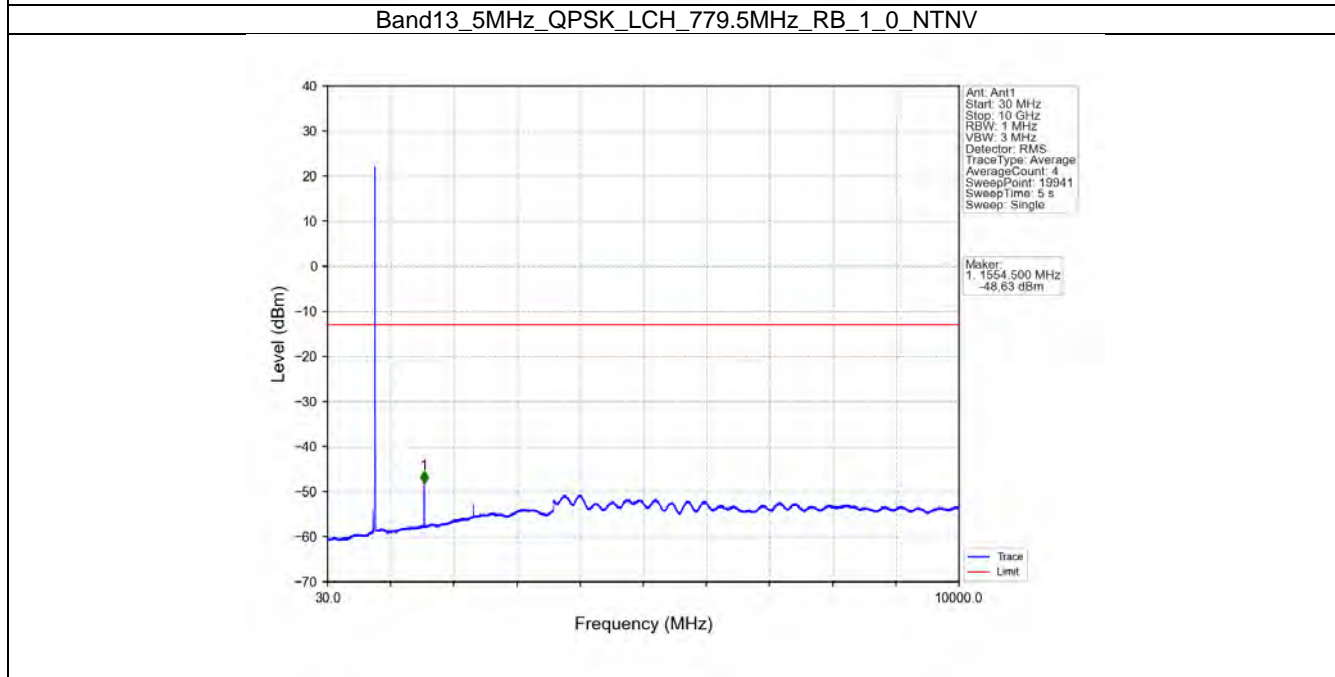
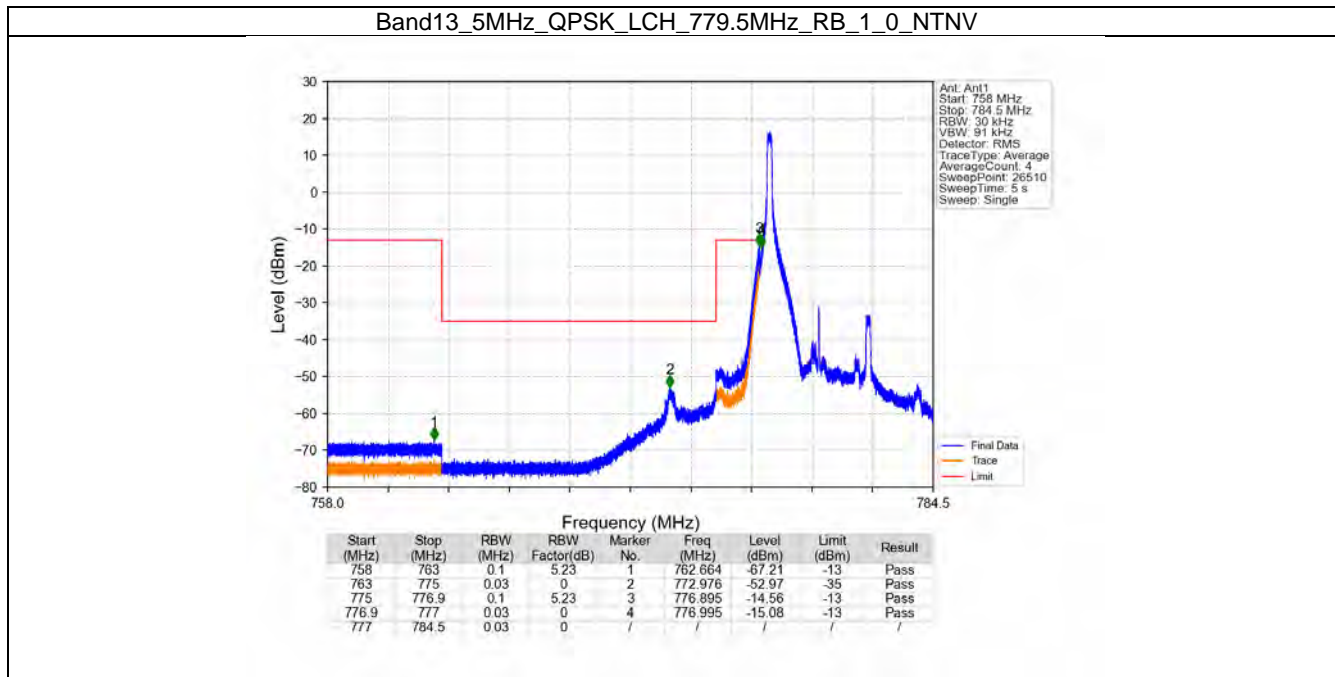
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6.1.2 Test Graph



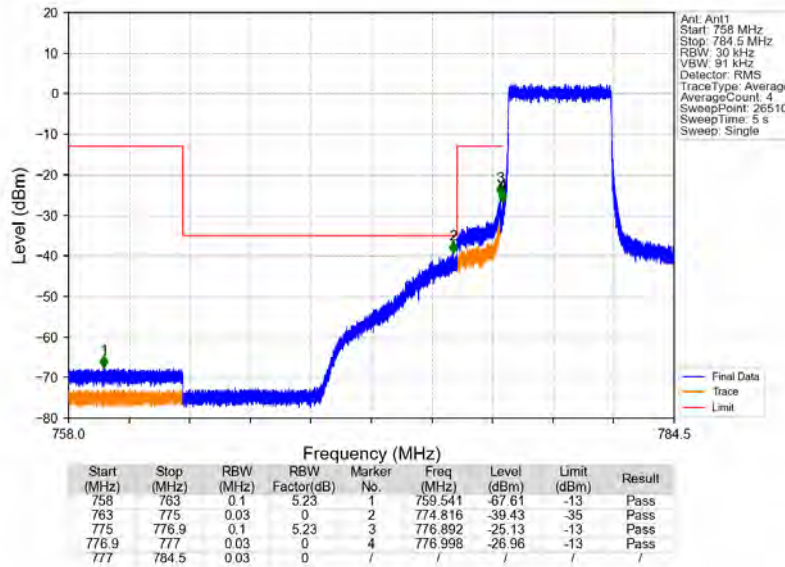
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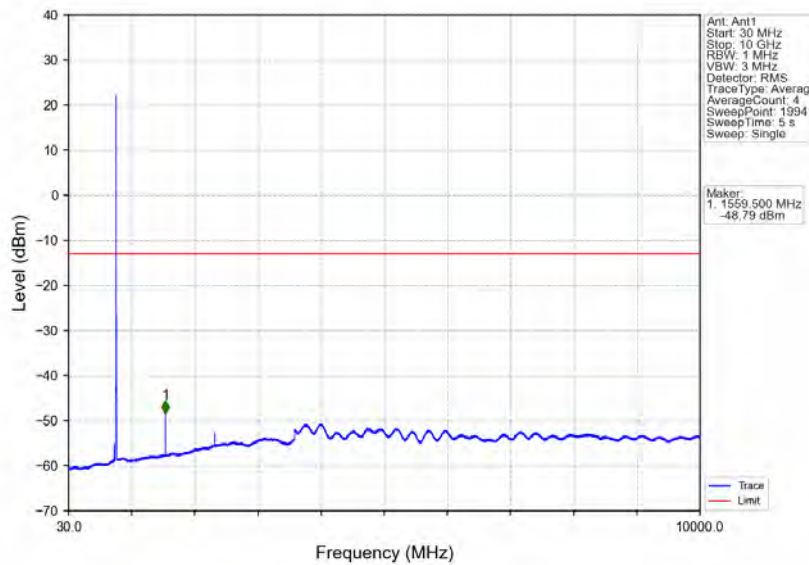
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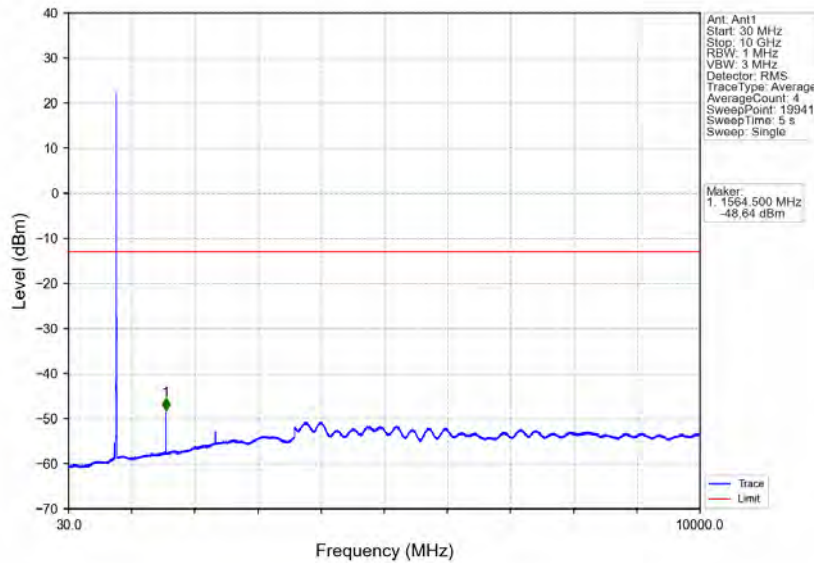
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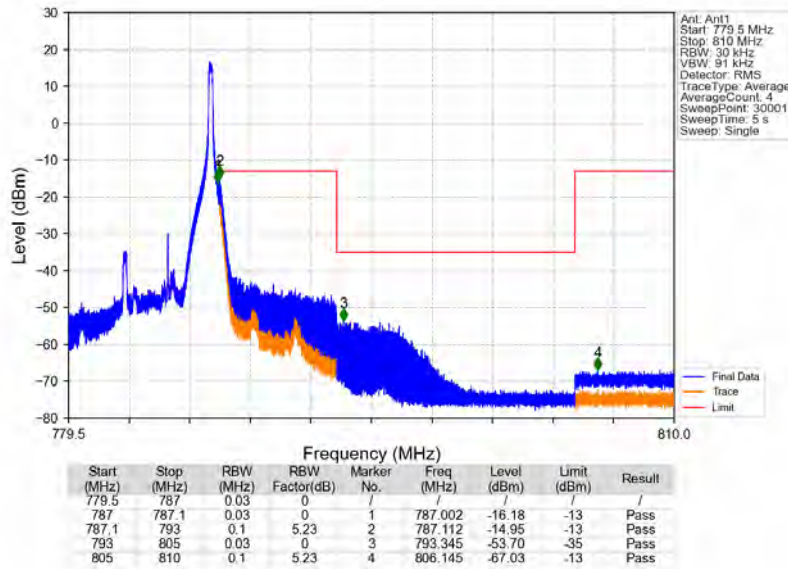
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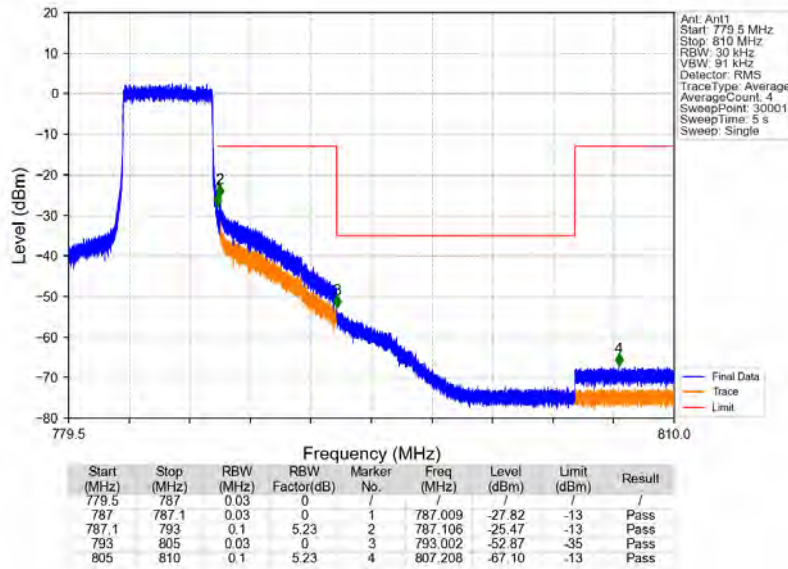
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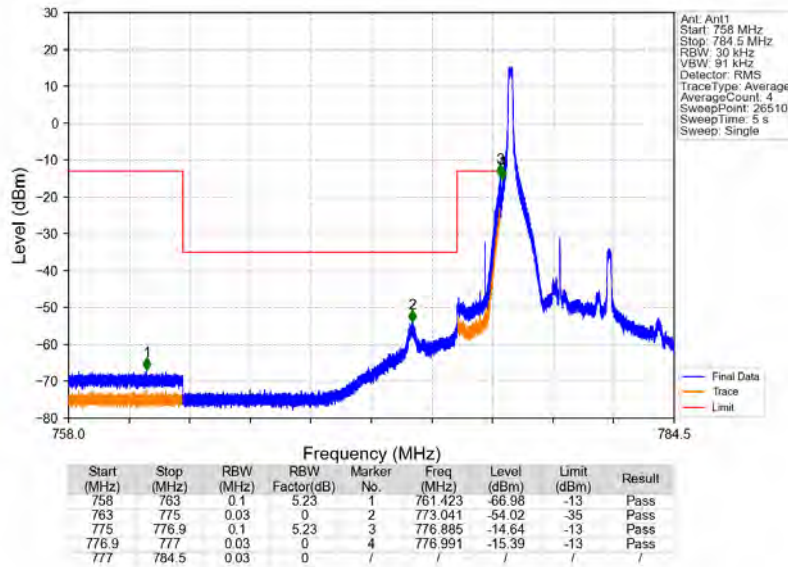
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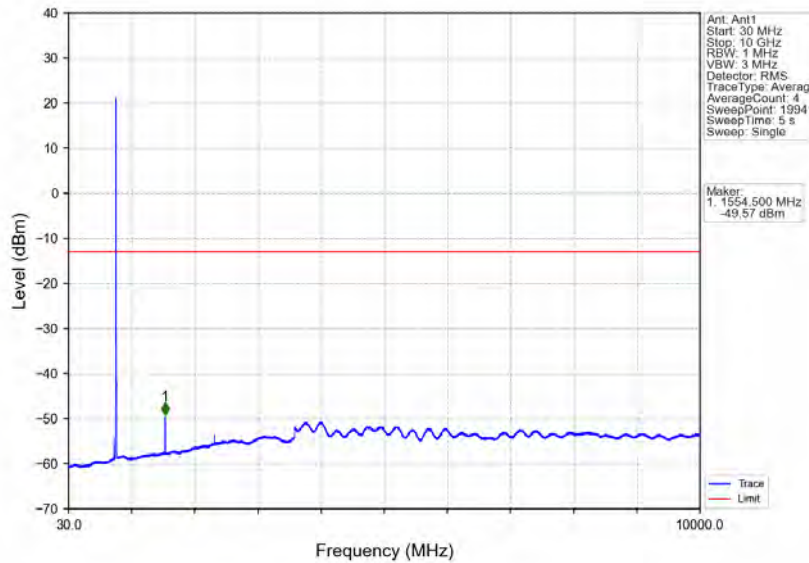
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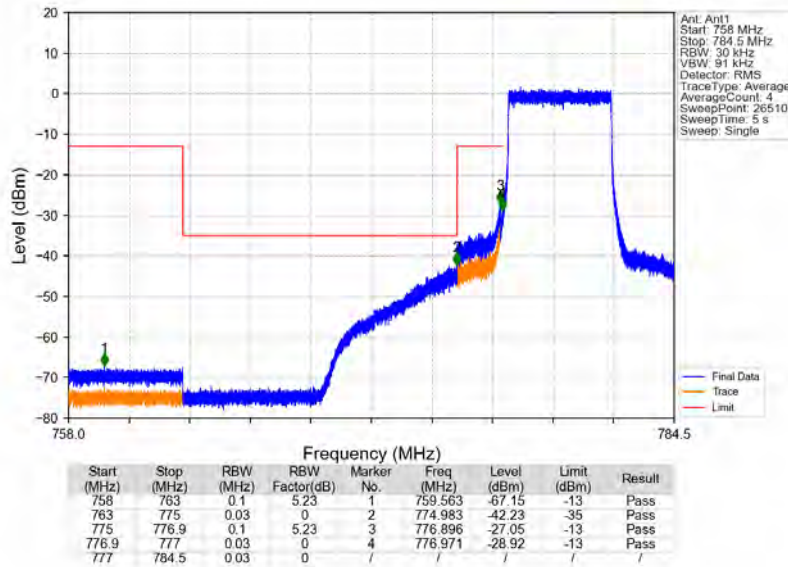
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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



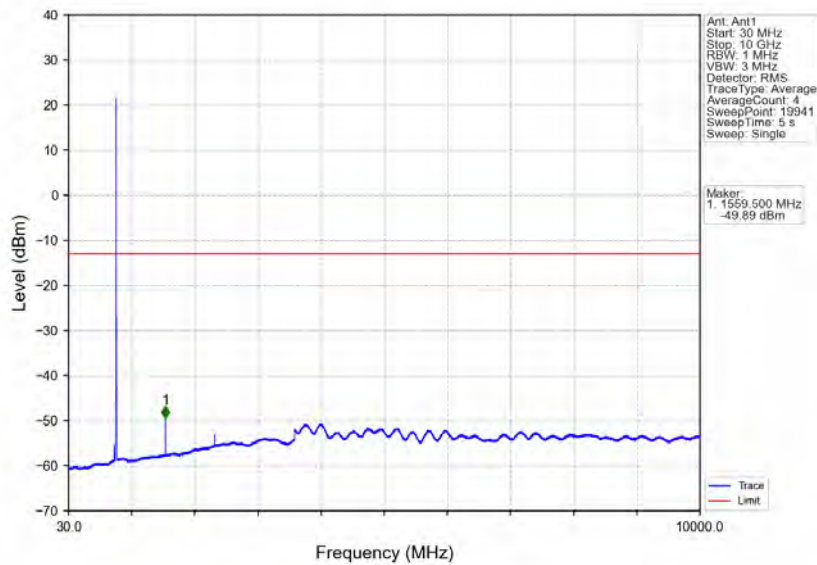
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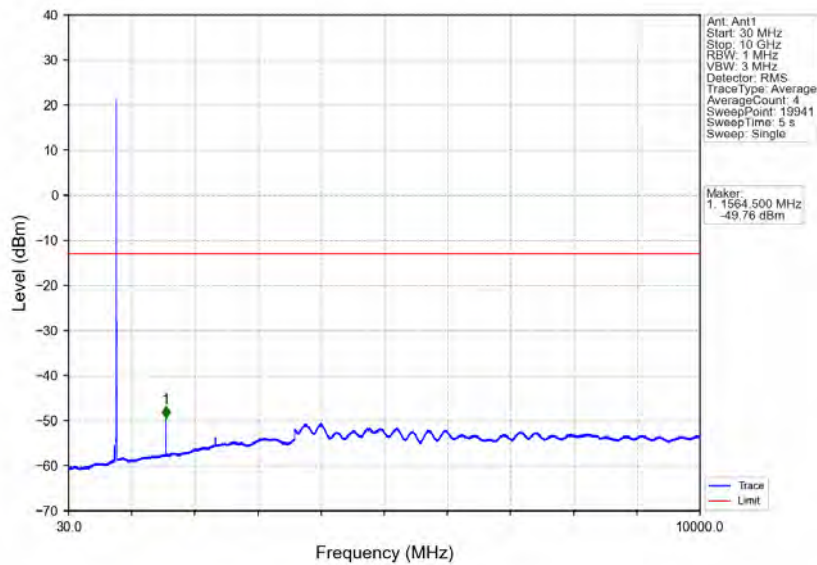
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Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



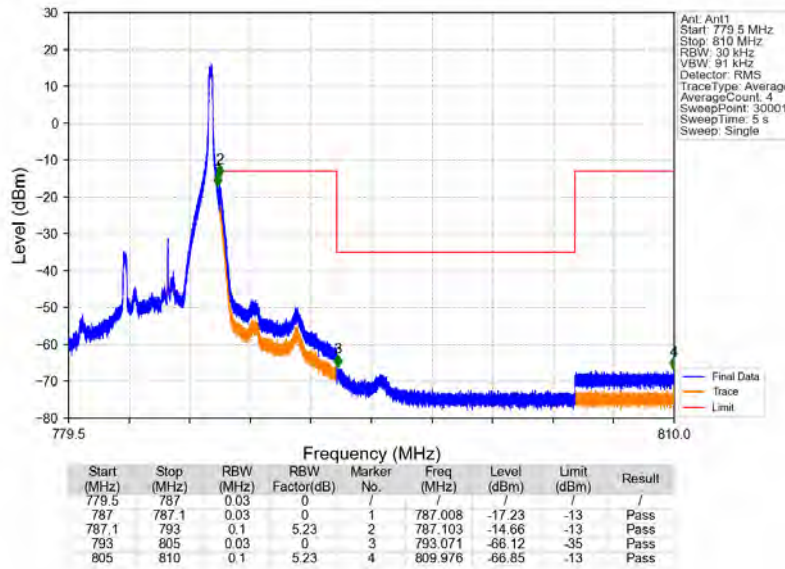
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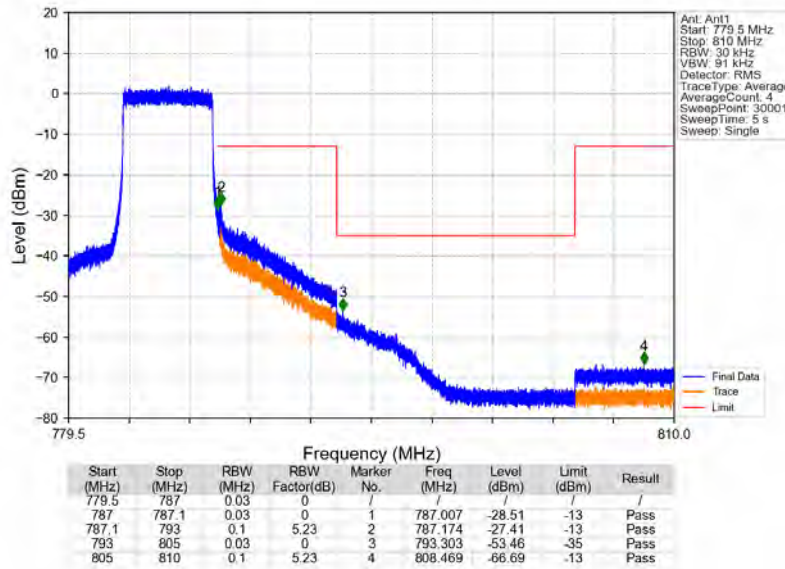
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Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



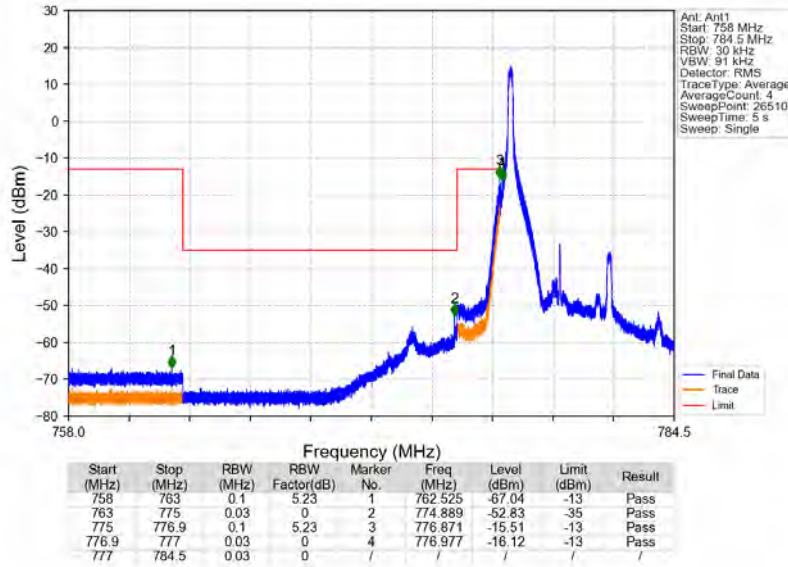
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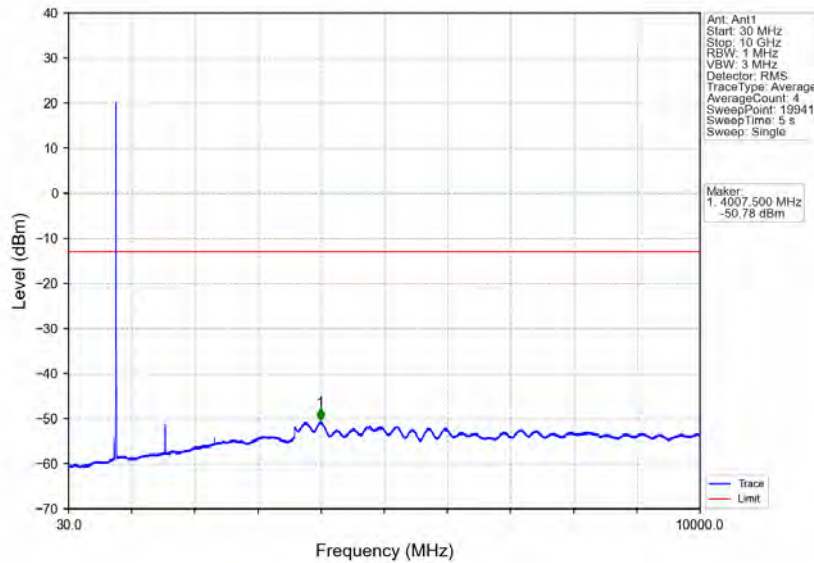
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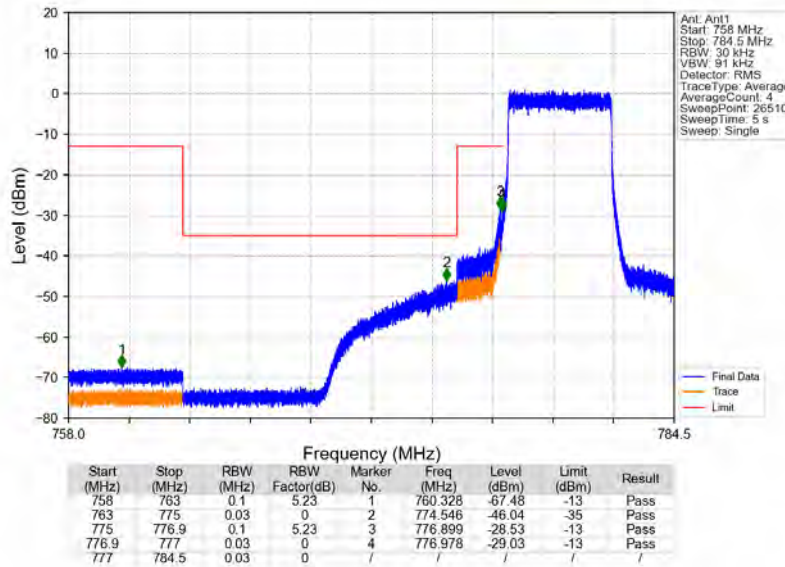
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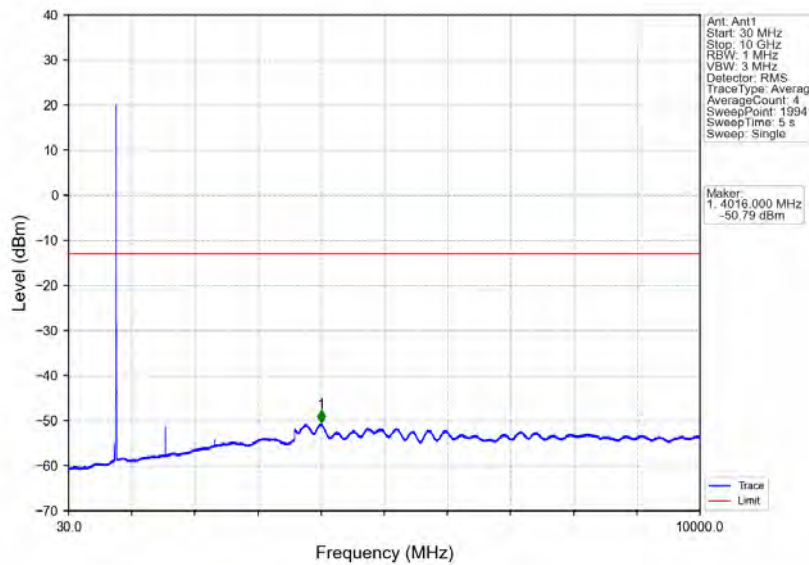
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Band13_5MHz_64QAM_MCH_782MHz_RB_1_0_NTNV



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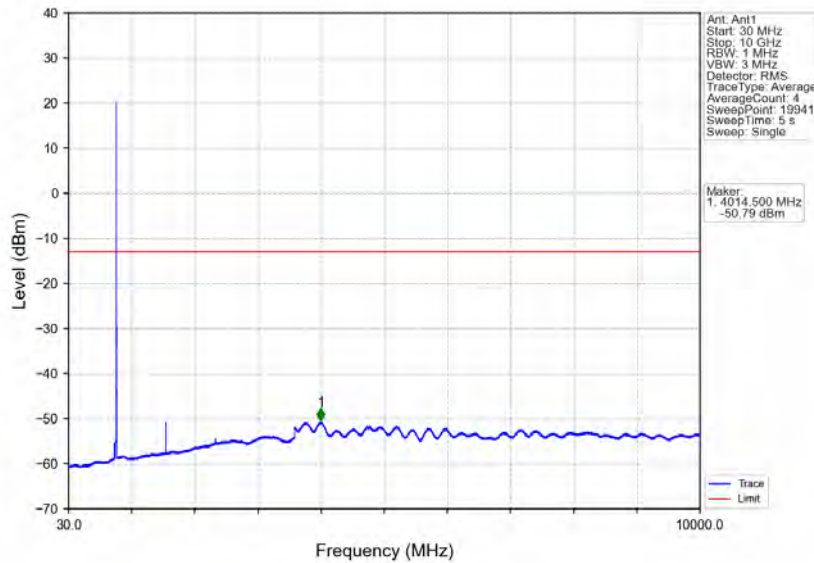
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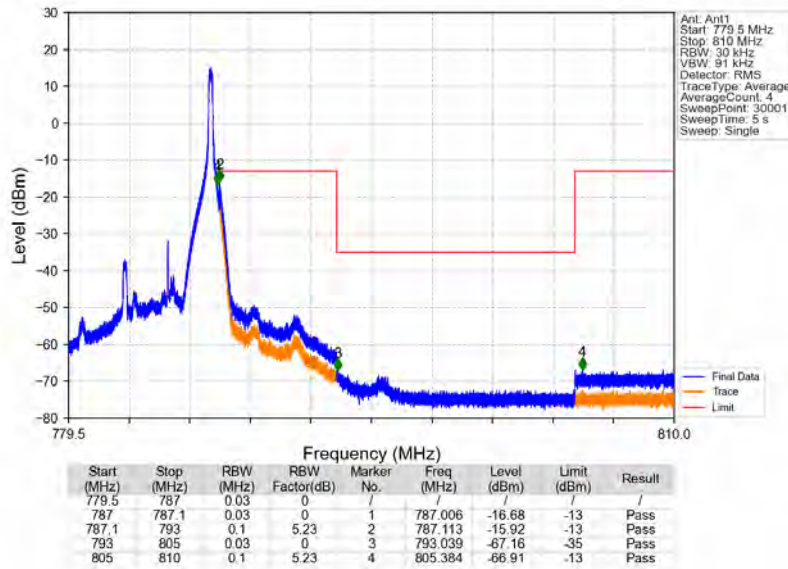
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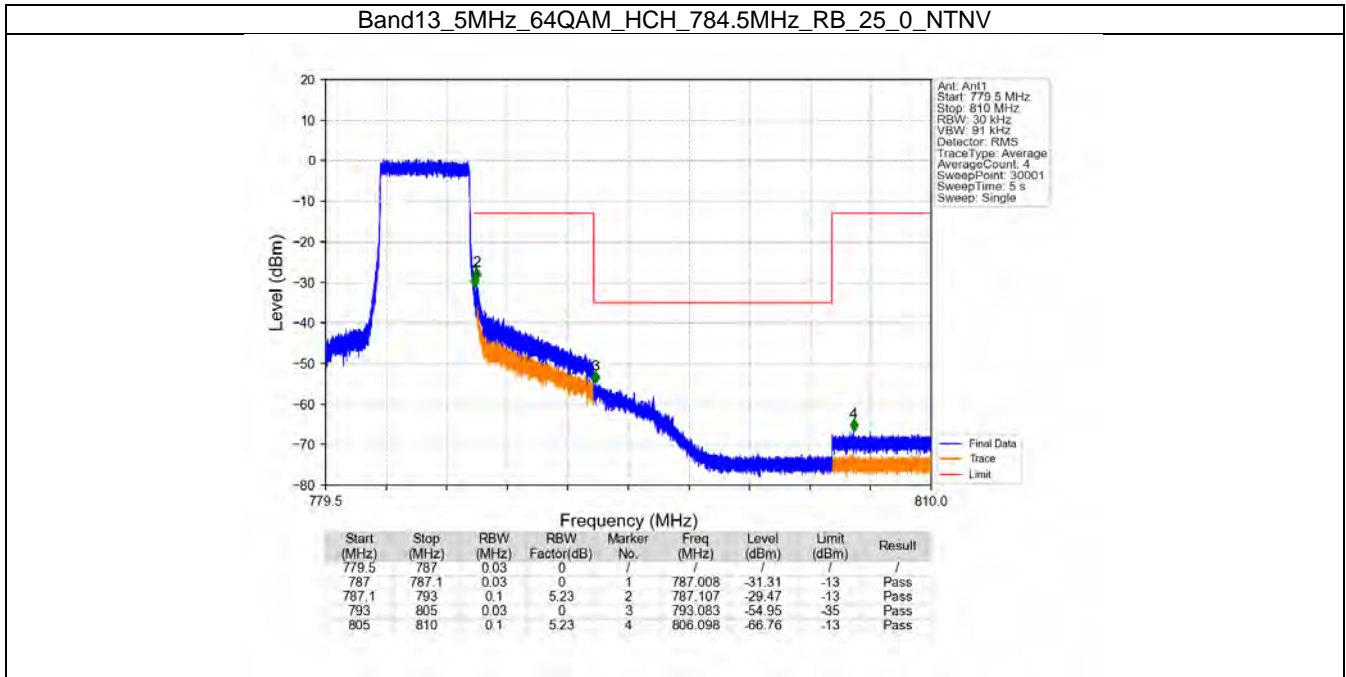
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6.2 B13_10MHz

6.2.1 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	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	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
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	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
		1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

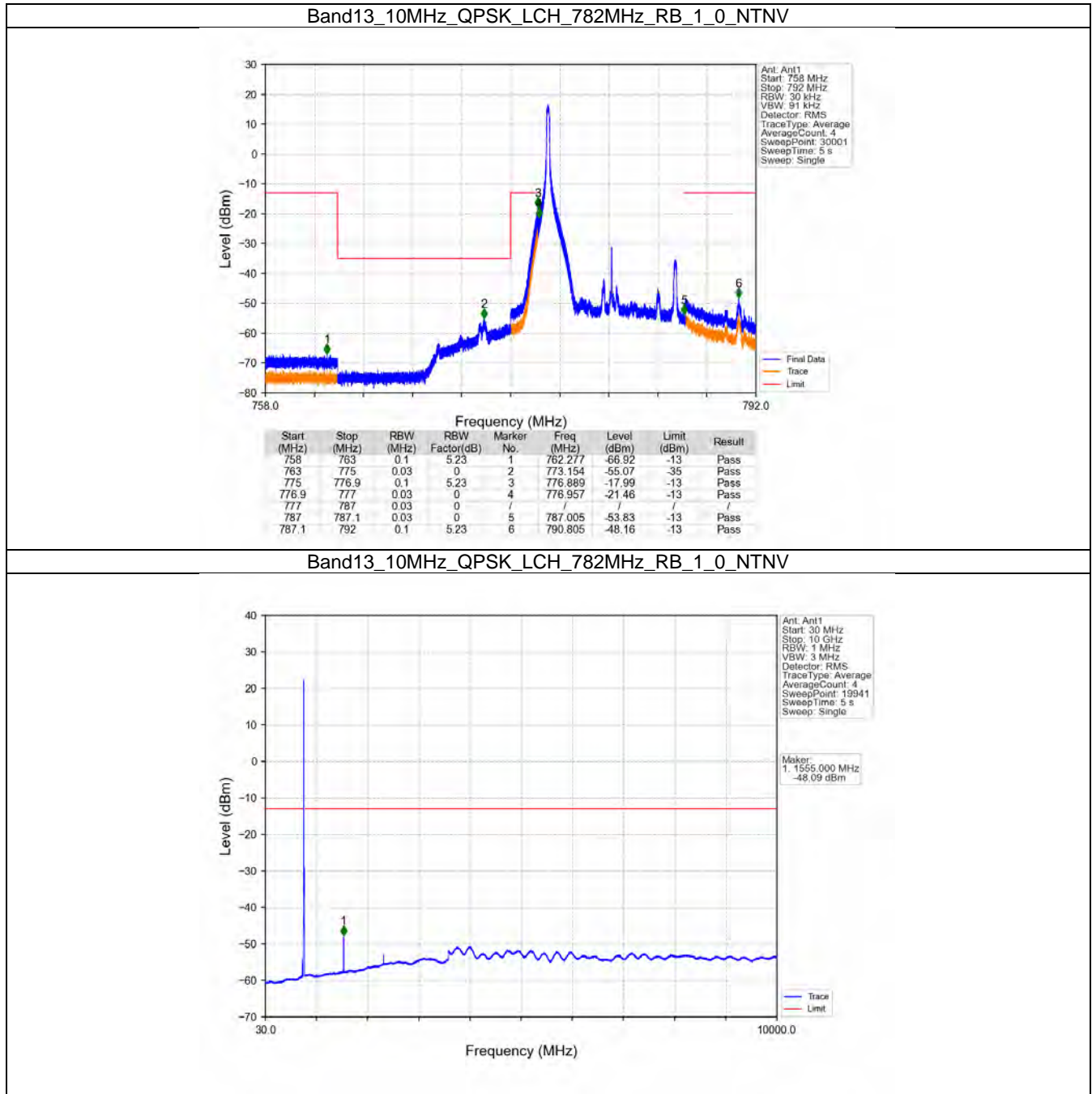


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6.2.2 Test Graph



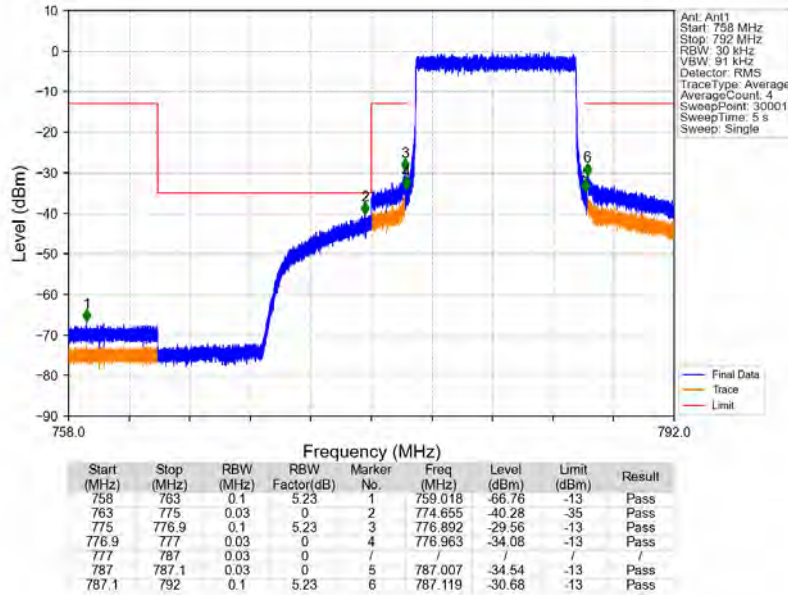
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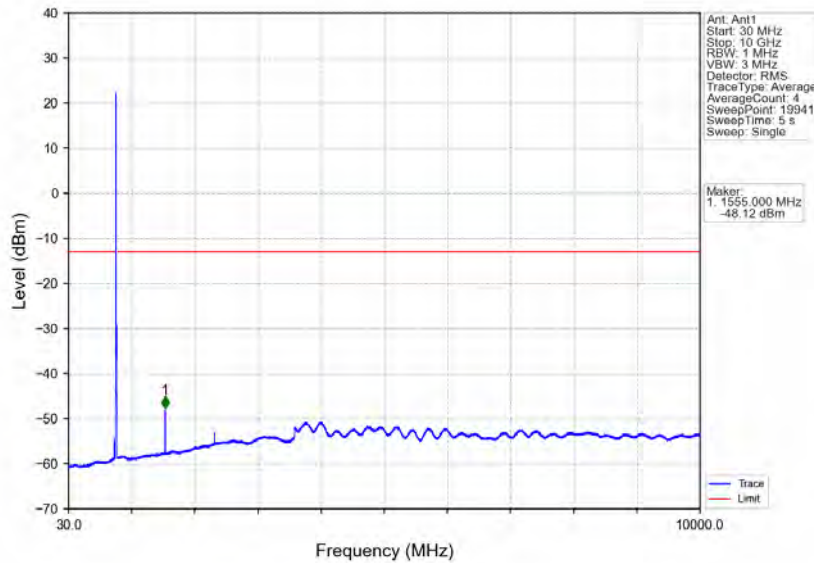
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Band13_10MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



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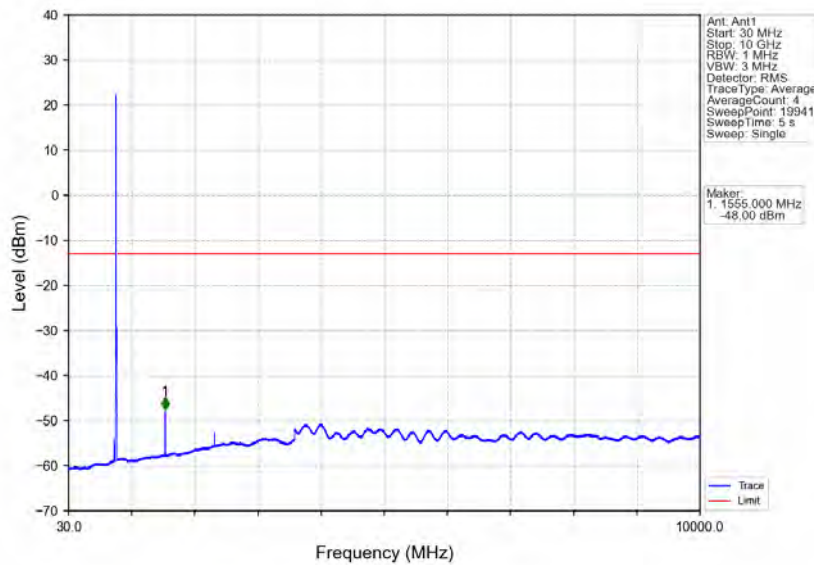
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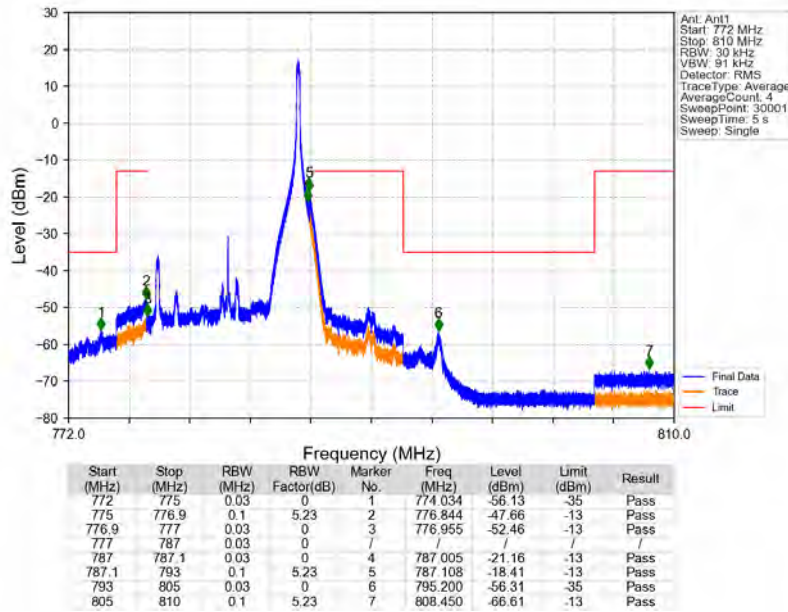


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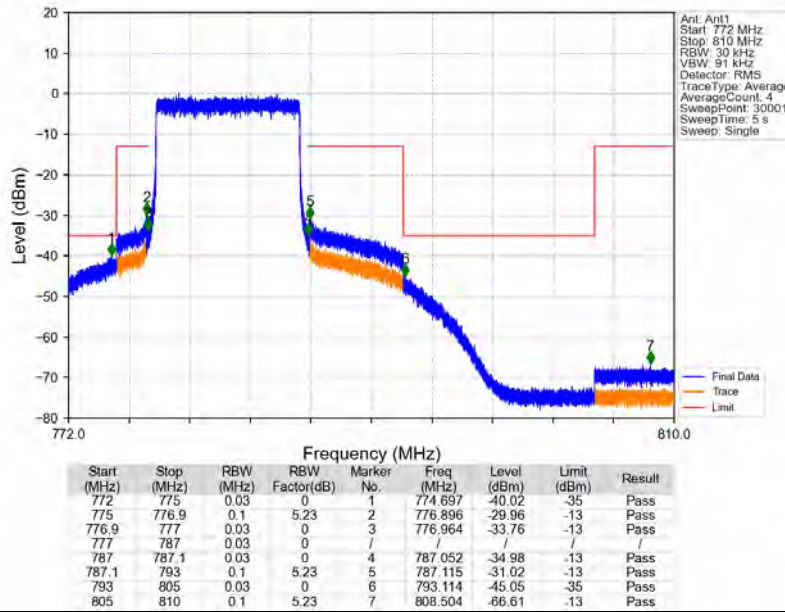
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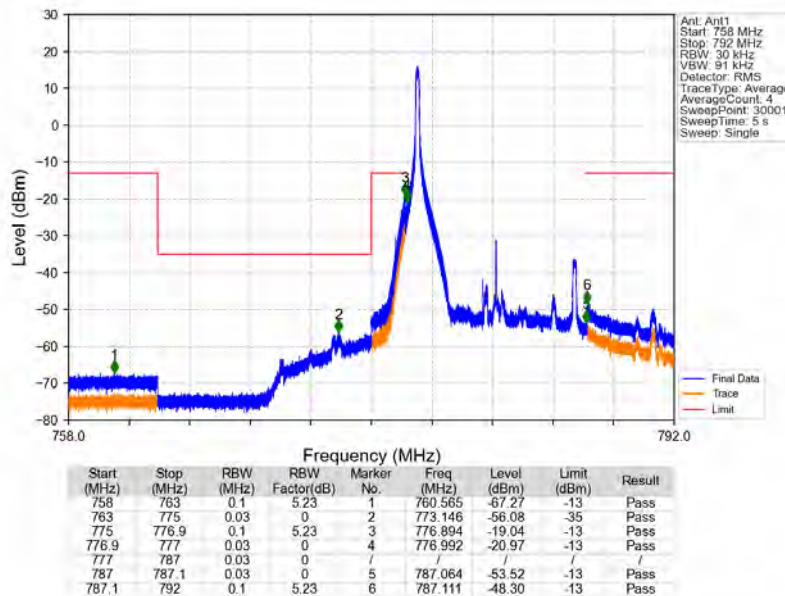
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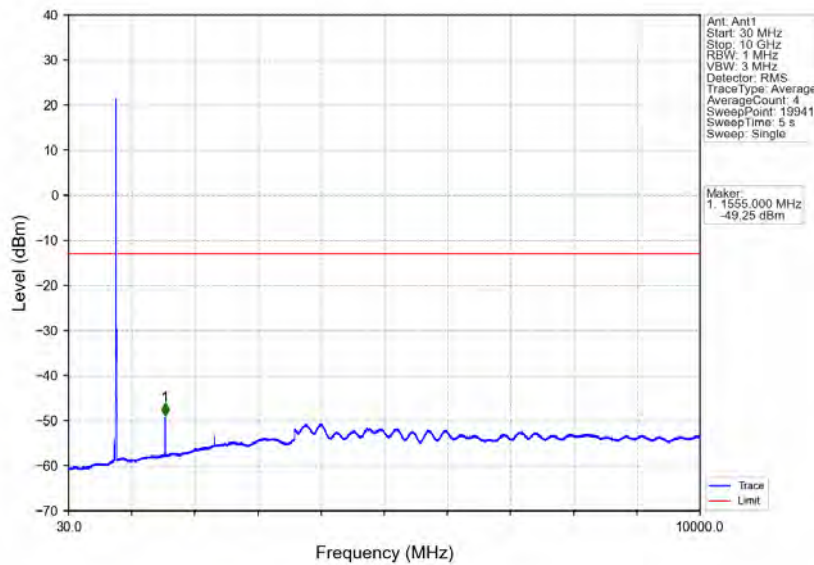
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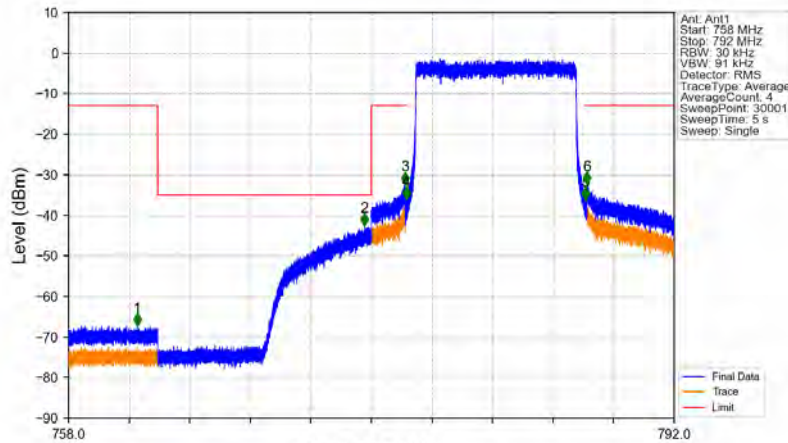
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Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	5.23	1	761.847	-67.23	-13	Pass
763	775	0.03	0	2	774.617	-42.57	-35	Pass
775	776.9	0.1	5.23	3	776.897	-32.42	-13	Pass
776.9	777	0.03	0	4	776.970	-36.04	-13	Pass
777	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	5	787.005	-36.22	-13	Pass
787.1	792	0.1	5.23	6	787.115	-32.37	-13	Pass



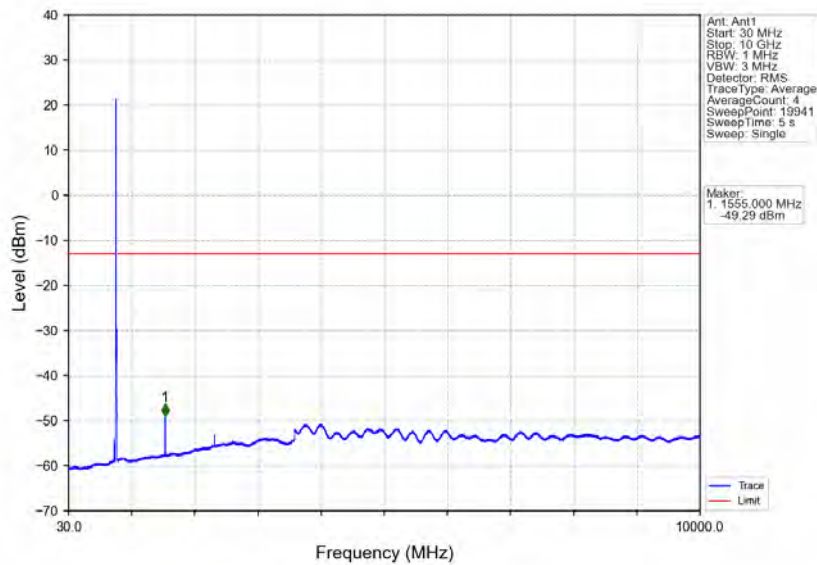
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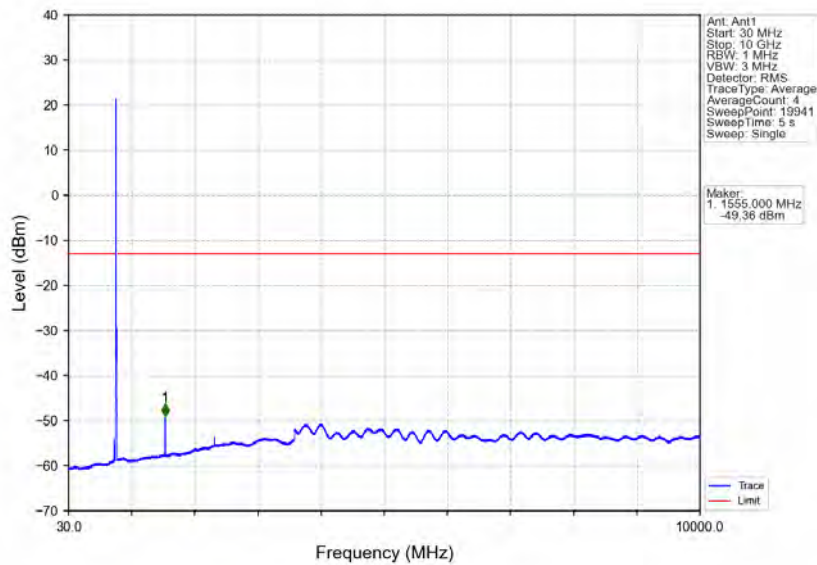
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Band13_10MHz_16QAM_HCH_782MHz_RB_1_0_NTNV



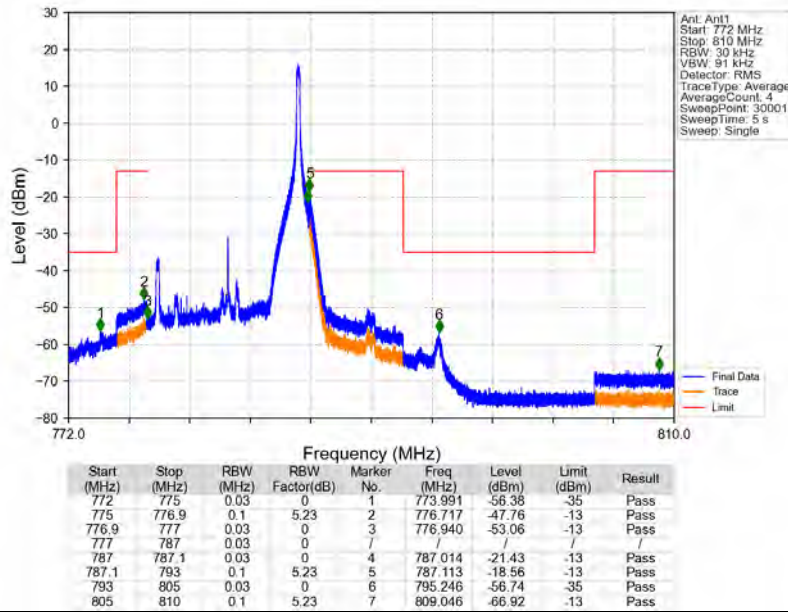
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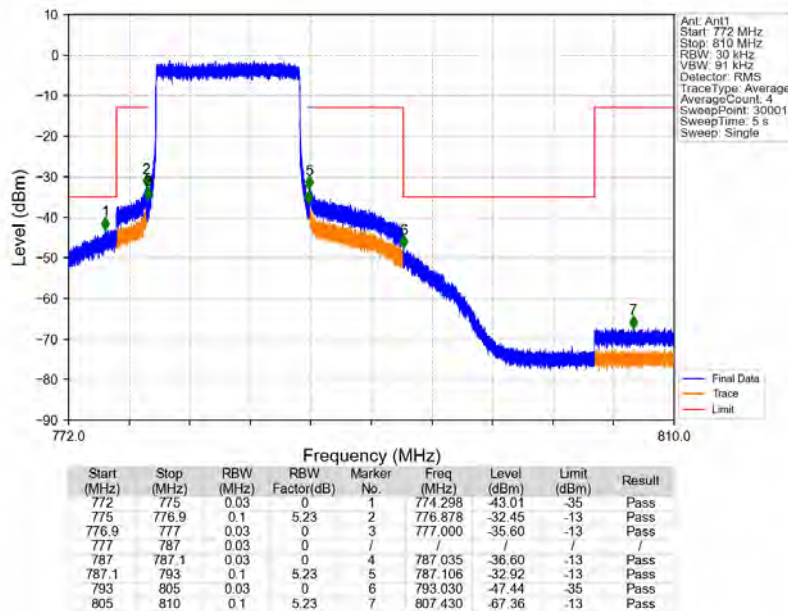
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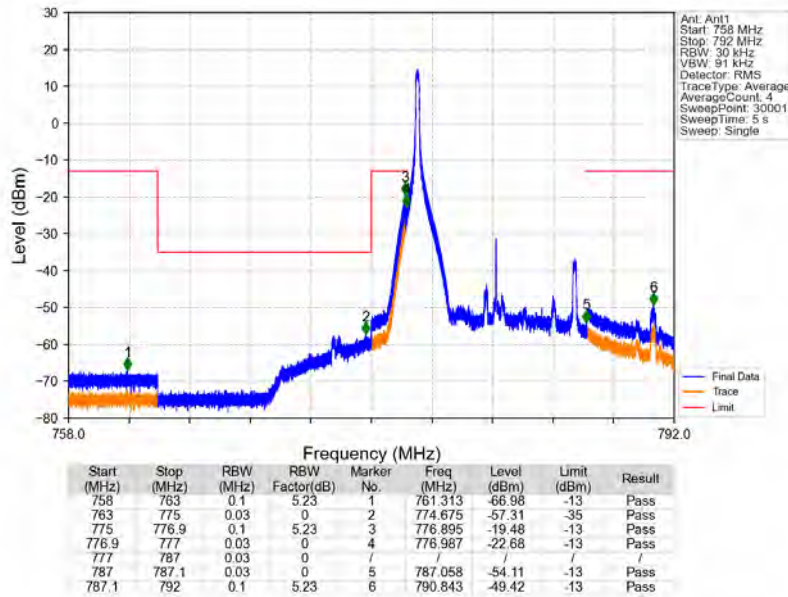


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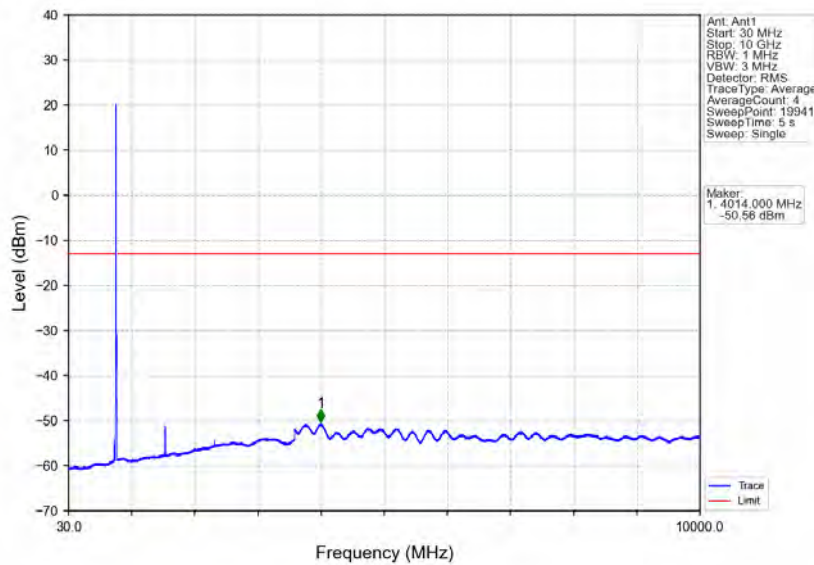
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Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTV



Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTV



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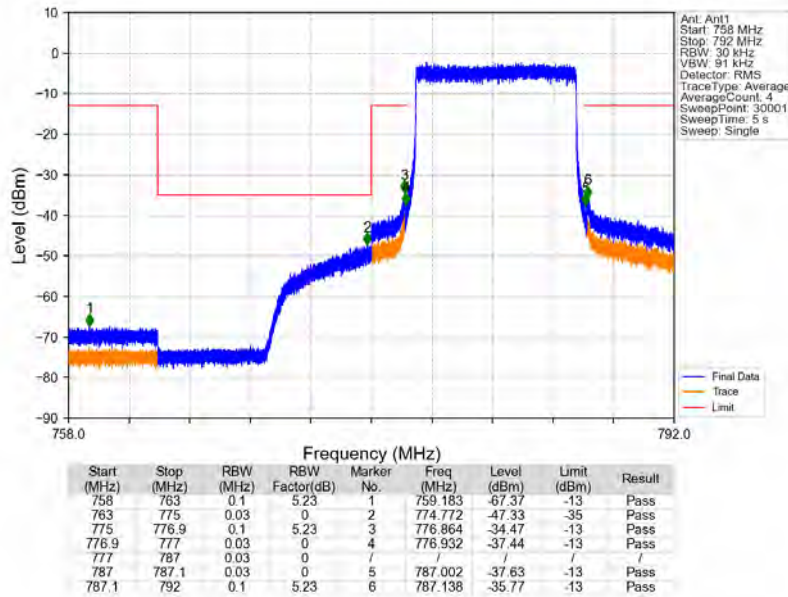
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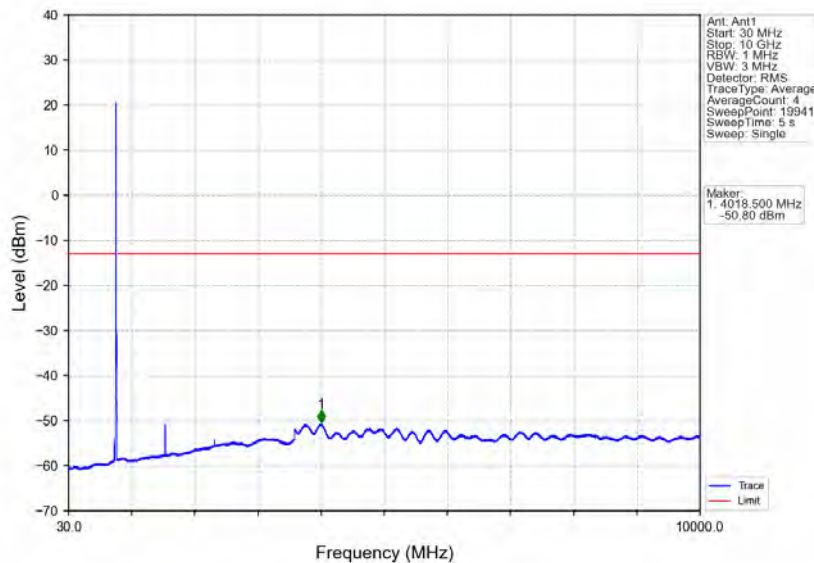


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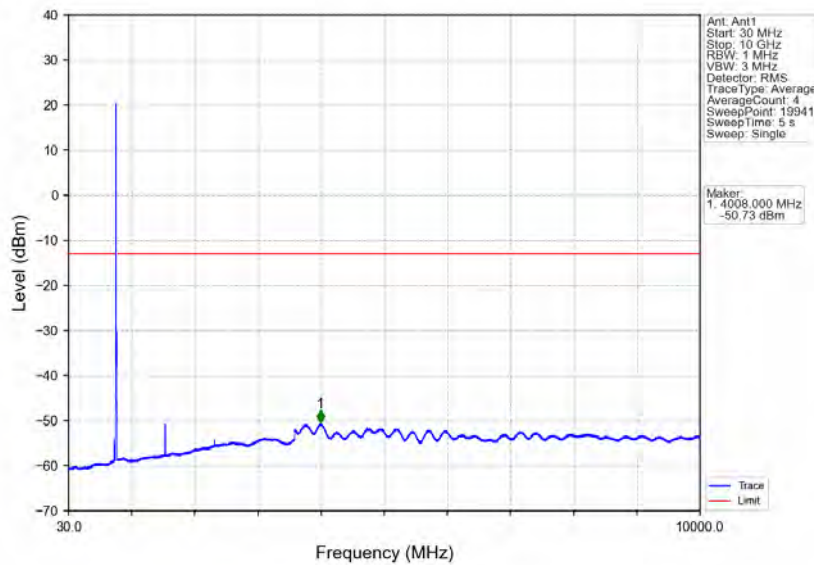
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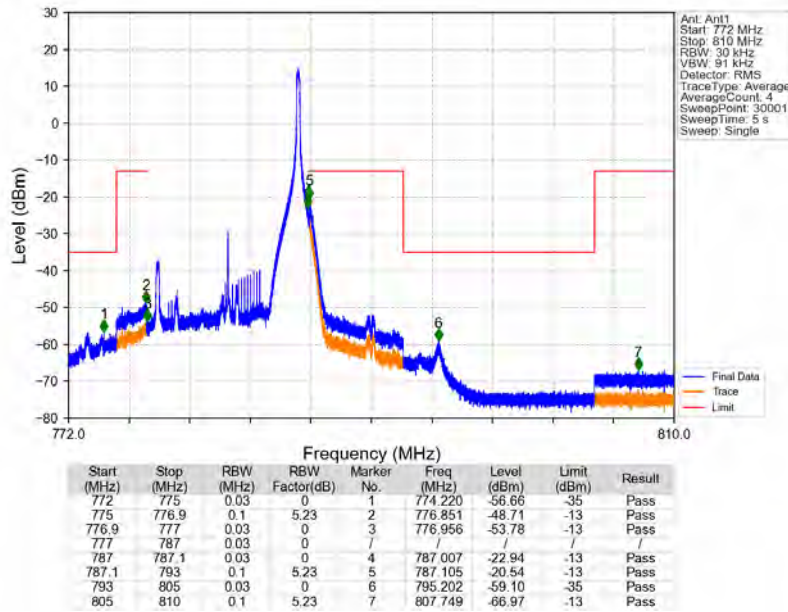
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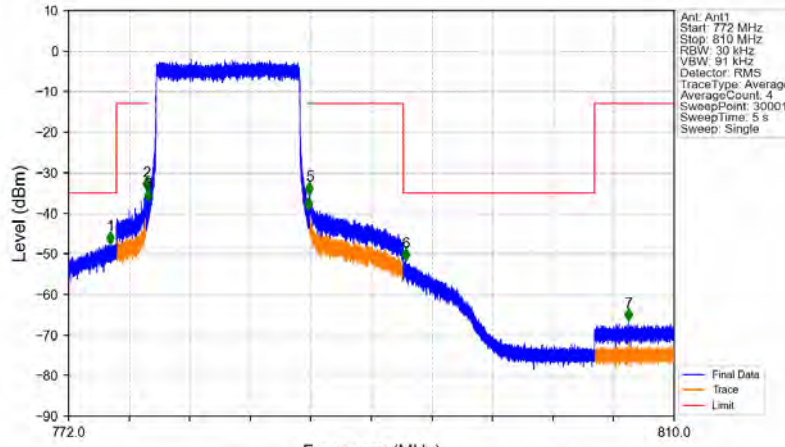
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.03	0	1	774.617	-47.60	-35	Pass
775	776.9	0.1	5.23	2	776.899	-34.30	-13	Pass
776.9	777	0.03	0	3	776.991	-37.09	-13	Pass
777	787	0.03	0	/	/	/	/	/
787	787.1	0.03	0	4	787.044	-39.13	-13	Pass
787.1	793	0.1	5.23	5	787.114	-35.36	-13	Pass
793	805	0.03	0	6	793.153	-51.74	-35	Pass
805	810	0.1	5.23	7	807.145	-66.52	-13	Pass



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