

Appendix Test Data for LTE_band_13

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

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	24.61	0.03	22.49	<=34.77	Pass
			13	24.50	0.03	22.38	<=34.77	Pass
			24	24.53	0.03	22.41	<=34.77	Pass
		12	0	24.08	0.03	21.96	<=34.77	Pass
			6	23.88	0.03	21.76	<=34.77	Pass
			13	23.91	0.03	21.79	<=34.77	Pass
		25	0	24.05	0.03	21.93	<=34.77	Pass
	782	1	0	24.47	0.03	22.35	<=34.77	Pass
			13	24.68	0.03	22.56	<=34.77	Pass
			24	24.72	0.03	22.60	<=34.77	Pass
		12	0	23.88	0.03	21.76	<=34.77	Pass
			6	23.94	0.03	21.82	<=34.77	Pass
			13	24.15	0.03	22.03	<=34.77	Pass
		25	0	24.02	0.03	21.90	<=34.77	Pass
	784.5	1	0	24.62	0.03	22.50	<=34.77	Pass
			13	24.76	0.03	22.64	<=34.77	Pass
			24	24.66	0.03	22.54	<=34.77	Pass
		12	0	23.97	0.03	21.85	<=34.77	Pass
			6	24.07	0.03	21.95	<=34.77	Pass
			13	24.09	0.03	21.97	<=34.77	Pass
		25	0	24.06	0.03	21.94	<=34.77	Pass
16QAM	779.5	1	0	24.12	0.03	22.00	<=34.77	Pass
			13	24.02	0.03	21.90	<=34.77	Pass
			24	24.05	0.03	21.93	<=34.77	Pass
		12	0	23.38	0.03	21.26	<=34.77	Pass
			6	23.19	0.03	21.07	<=34.77	Pass
			13	23.24	0.03	21.12	<=34.77	Pass
		25	0	23.32	0.03	21.20	<=34.77	Pass
	782	1	0	23.56	0.03	21.44	<=34.77	Pass
			13	23.77	0.03	21.65	<=34.77	Pass
			24	23.83	0.03	21.71	<=34.77	Pass
		12	0	23.17	0.03	21.05	<=34.77	Pass
			6	23.24	0.03	21.12	<=34.77	Pass
			13	23.44	0.03	21.32	<=34.77	Pass
		25	0	23.38	0.03	21.26	<=34.77	Pass
	784.5	1	0	23.98	0.03	21.86	<=34.77	Pass
			13	24.10	0.03	21.98	<=34.77	Pass
			24	24.00	0.03	21.88	<=34.77	Pass
		12	0	23.24	0.03	21.12	<=34.77	Pass
			6	23.33	0.03	21.21	<=34.77	Pass
			13	23.37	0.03	21.25	<=34.77	Pass
		25	0	23.38	0.03	21.26	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B13_10MHz_ERP

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	24.62	0.03	22.50	<=34.77	Pass
			25	24.55	0.03	22.43	<=34.77	Pass
			49	24.70	0.03	22.58	<=34.77	Pass
		25	0	23.97	0.03	21.85	<=34.77	Pass
			13	24.05	0.03	21.93	<=34.77	Pass
			25	24.21	0.03	22.09	<=34.77	Pass
		50	0	24.15	0.03	22.03	<=34.77	Pass
16QAM	782	1	0	24.40	0.03	22.28	<=34.77	Pass
			25	24.35	0.03	22.23	<=34.77	Pass
			49	24.50	0.03	22.38	<=34.77	Pass
		25	0	23.34	0.03	21.22	<=34.77	Pass
			13	23.39	0.03	21.27	<=34.77	Pass
			25	23.58	0.03	21.46	<=34.77	Pass
		50	0	23.45	0.03	21.33	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B13_5MHz

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	3.27	-4.063	-0.0052	-2.5 to 2.5	Pass
					3.85	-1.574	-0.0020	-2.5 to 2.5	Pass
					4.43	-3.748	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-1.144	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-6.495	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-3.819	-0.0049	-2.5 to 2.5	Pass
				10	3.85	-2.975	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-1.903	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-3.920	-0.0050	-2.5 to 2.5	Pass
				50	3.85	-2.260	-0.0029	-2.5 to 2.5	Pass
	782	25	0	20	3.27	-2.990	-0.0038	-2.5 to 2.5	Pass
					3.85	-2.561	-0.0033	-2.5 to 2.5	Pass
					4.43	-1.130	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-2.389	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	0.415	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-3.963	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-8.354	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-2.618	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-3.591	-0.0046	-2.5 to 2.5	Pass
				50	3.85	-3.290	-0.0042	-2.5 to 2.5	Pass
	784.5	25	0	20	3.27	-1.845	-0.0024	-2.5 to 2.5	Pass
					3.85	-2.618	-0.0033	-2.5 to 2.5	Pass
					4.43	-3.176	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	1.345	0.0017	-2.5 to 2.5	Pass
				-20	3.85	-4.807	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-1.488	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-5.922	-0.0075	-2.5 to 2.5	Pass
				10	3.85	1.388	0.0018	-2.5 to 2.5	Pass
				30	3.85	-4.120	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-1.945	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-0.830	-0.0011	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.27	-5.550	-0.0071	-2.5 to 2.5	Pass
					3.85	-5.136	-0.0066	-2.5 to 2.5	Pass
					4.43	-1.016	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-2.933	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-7.339	-0.0094	-2.5 to 2.5	Pass
				-10	3.85	-3.176	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-6.552	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-3.276	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-1.345	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-3.705	-0.0048	-2.5 to 2.5	Pass
				50	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
	782	25	0	20	3.27	-2.761	-0.0035	-2.5 to 2.5	Pass
					3.85	-4.420	-0.0057	-2.5 to 2.5	Pass
					4.43	-0.429	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-1.702	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-3.648	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-4.063	-0.0052	-2.5 to 2.5	Pass

				0	3.85	-4.020	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-3.905	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-5.178	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-6.552	-0.0084	-2.5 to 2.5	Pass
				50	3.85	-2.146	-0.0027	-2.5 to 2.5	Pass
	784.5	25	0	20	3.27	-3.448	-0.0044	-2.5 to 2.5	Pass
					3.85	-5.651	-0.0072	-2.5 to 2.5	Pass
					4.43	-0.057	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-2.546	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-3.719	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-1.774	-0.0023	-2.5 to 2.5	Pass
				0	3.85	1.087	0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.887	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-4.377	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-7.539	-0.0096	-2.5 to 2.5	Pass

2.1.2 B13_10MHz

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	3.27	-3.934	-0.0050	-2.5 to 2.5	Pass
					3.85	-5.364	-0.0069	-2.5 to 2.5	Pass
					4.43	-3.133	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	-2.317	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-3.405	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	-3.619	-0.0046	-2.5 to 2.5	Pass
				0	3.85	-0.186	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-2.990	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-4.148	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-2.718	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-1.402	-0.0018	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.27	-1.659	-0.0021	-2.5 to 2.5	Pass
					3.85	-1.674	-0.0021	-2.5 to 2.5	Pass
					4.43	-2.446	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-0.687	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-2.275	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-3.018	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-2.289	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-1.974	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-2.904	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-3.190	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-2.747	-0.0035	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B13_5MHz

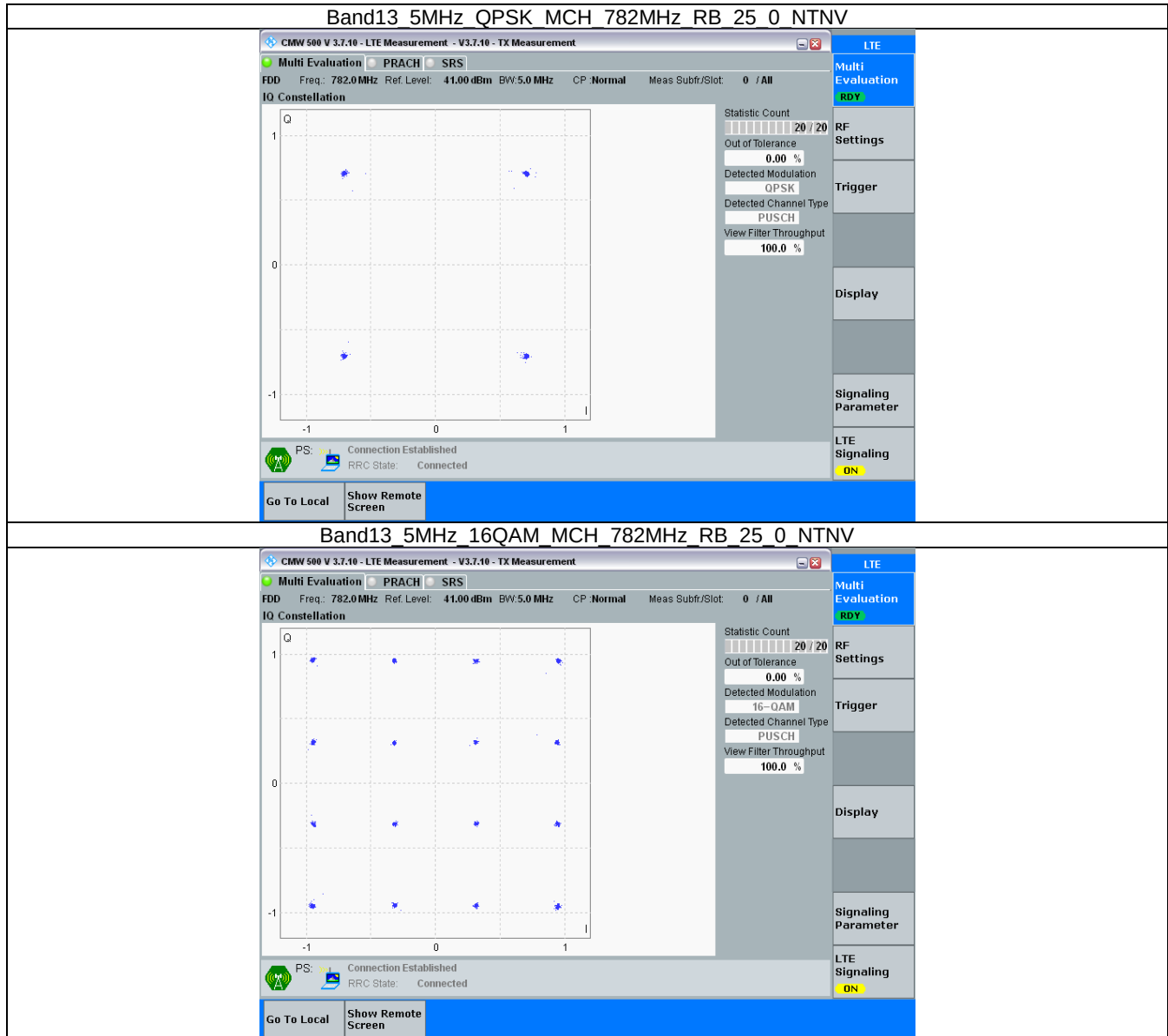
Band: 13 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	25	0	Refer To Test Graph		Pass
16QAM	782	25	0	Refer To Test Graph		Pass

3.1.2 B13_10MHz

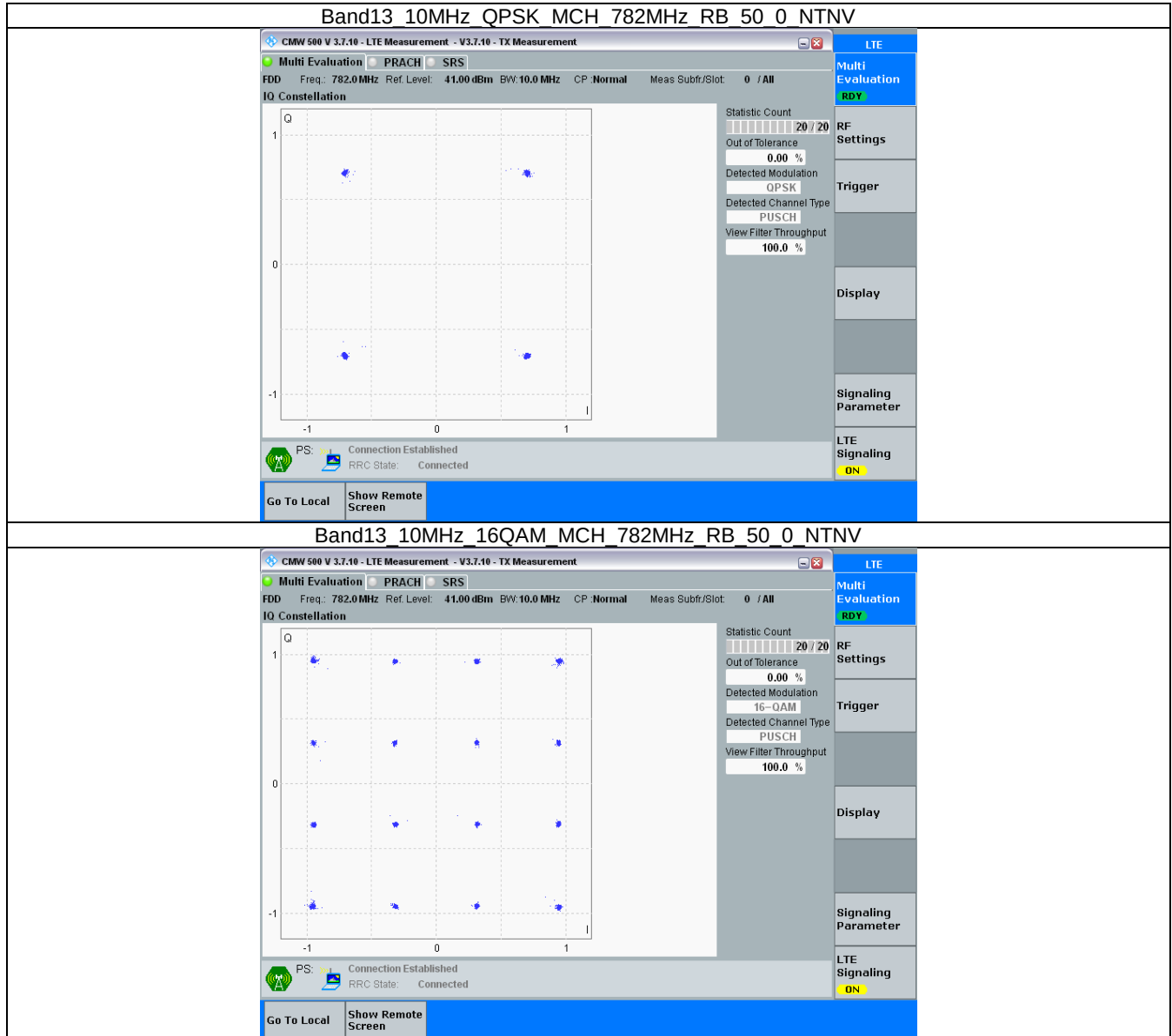
Band: 13 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	Refer To Test Graph		Pass
16QAM	782	50	0	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 B13_5MHz



3.2.2 B13_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band13_OBW

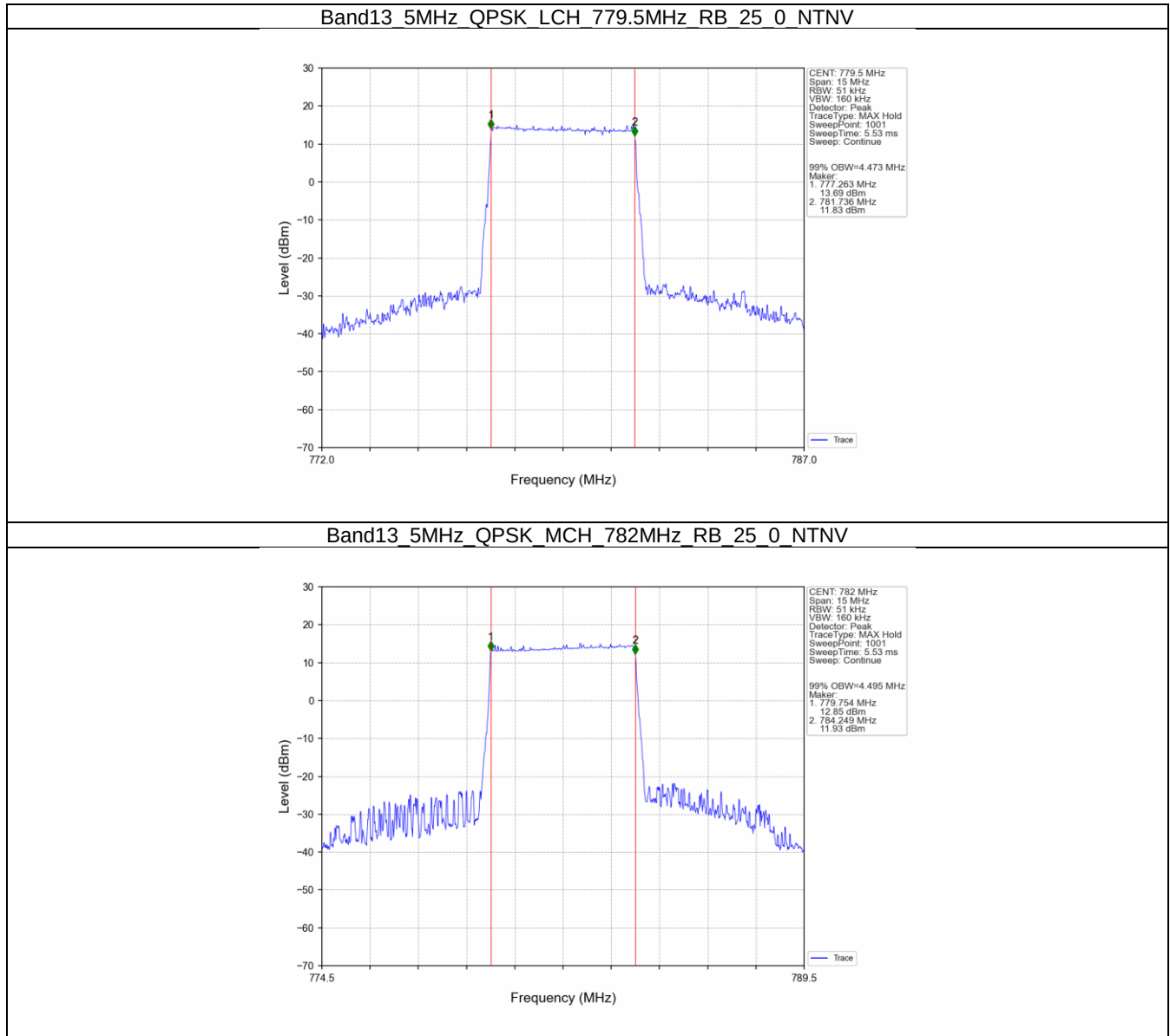
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.473	/	Pass
		782	25	0	4.495	/	Pass
		784.5	25	0	4.477	/	Pass
	16QAM	779.5	25	0	4.472	/	Pass
		782	25	0	4.482	/	Pass
		784.5	25	0	4.462	/	Pass
10	QPSK	782	50	0	8.942	/	Pass
	16QAM	782	50	0	8.960	/	Pass

4.1.2 Band13_XDB

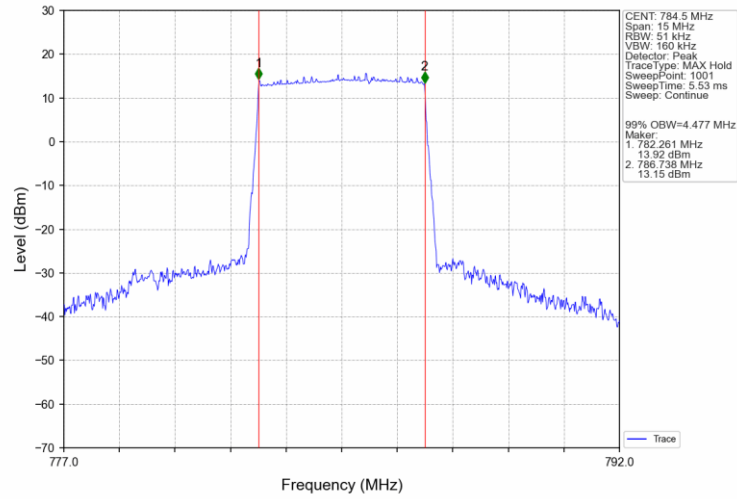
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.863	/	Pass
		782	25	0	4.856	/	Pass
		784.5	25	0	4.821	/	Pass
	16QAM	779.5	25	0	4.860	/	Pass
		782	25	0	4.858	/	Pass
		784.5	25	0	4.801	/	Pass
10	QPSK	782	50	0	9.542	/	Pass
	16QAM	782	50	0	9.624	/	Pass

4.2 Test Graph

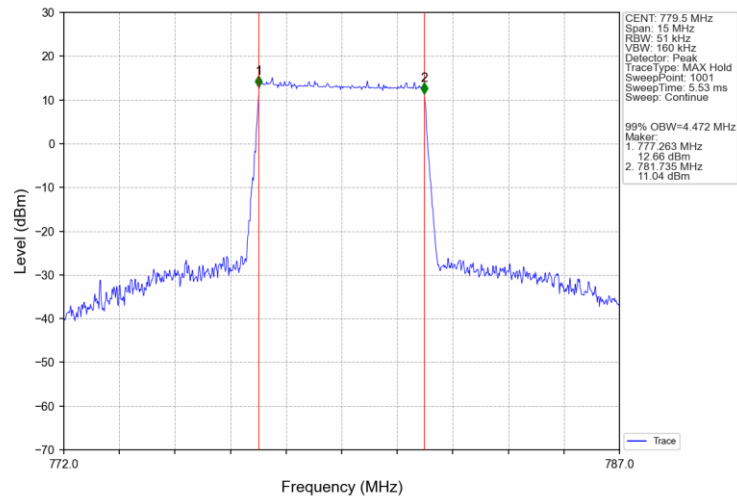
4.2.1 Band13_OBW



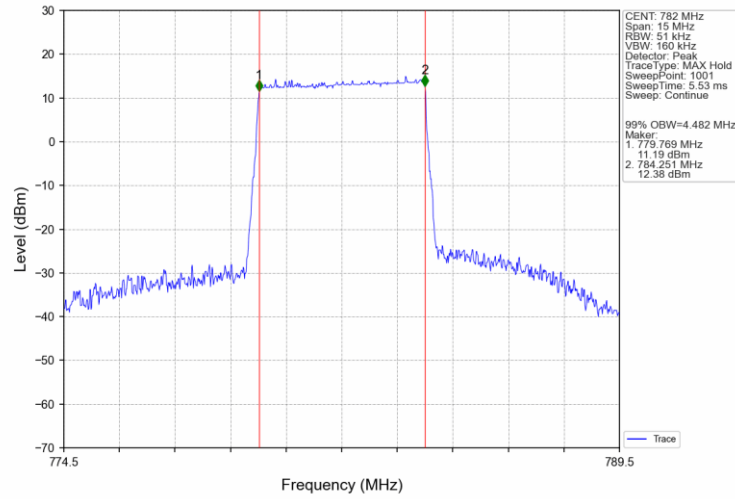
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTV



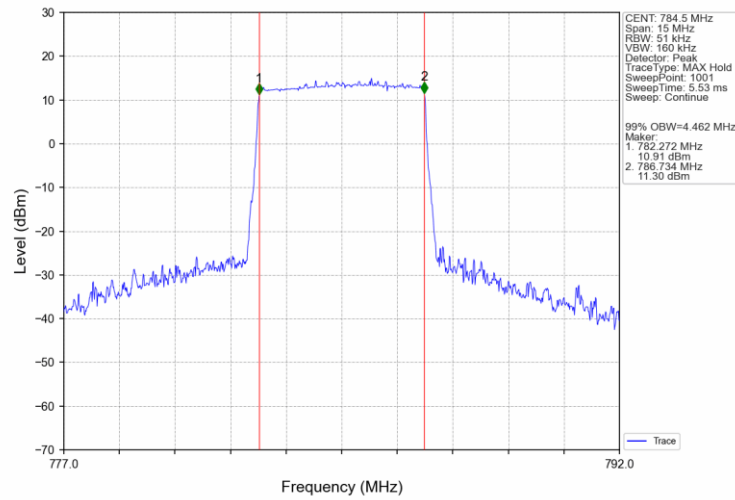
Band13 5MHz 16QAM LCH 779.5MHz RB 25 0 NTV



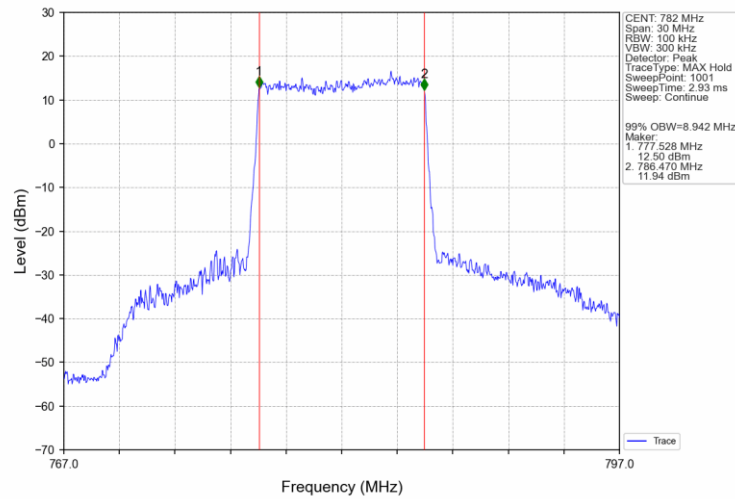
Band13 5MHz 16QAM MCH 782MHz RB 25 0 NTV



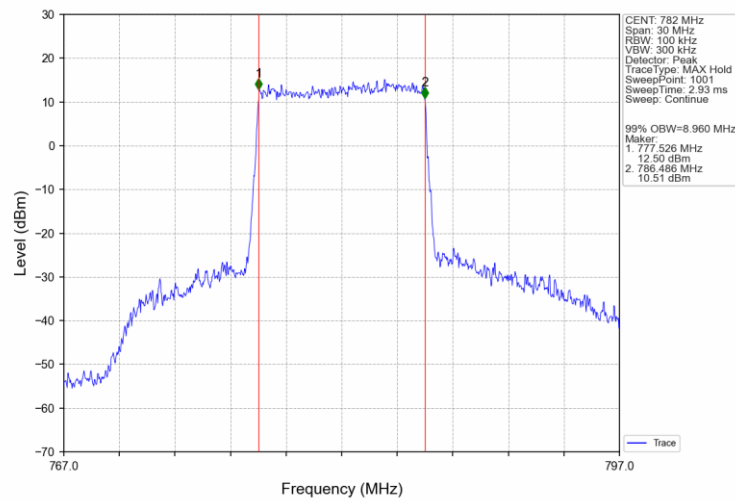
Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTV



Band13 10MHz QPSK MCH 782MHz RB 50 0 NTN

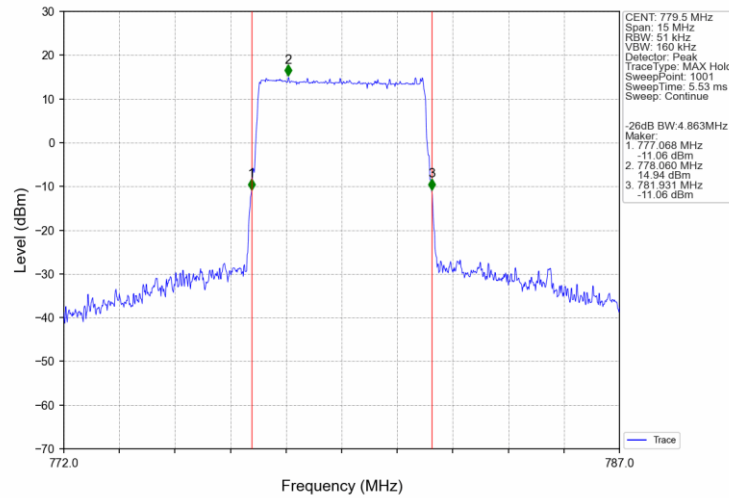


Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTN

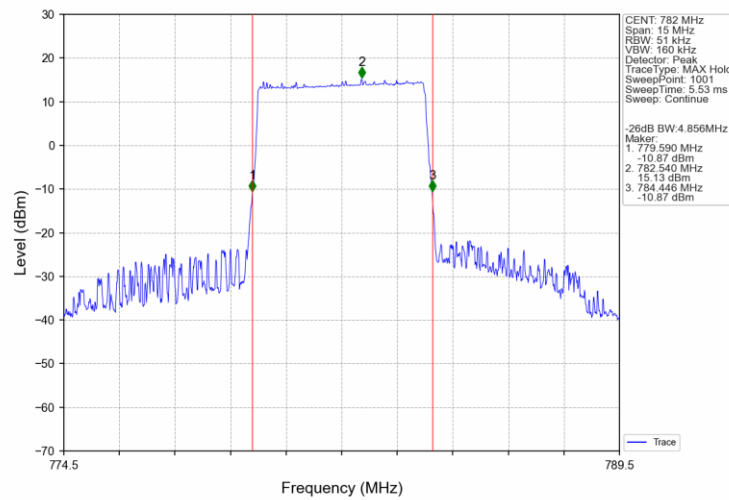


4.2.2 Band13_XDB

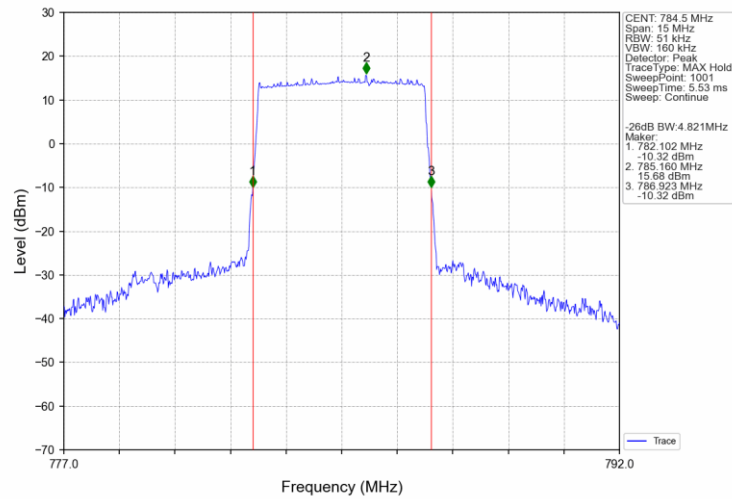
Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTNV



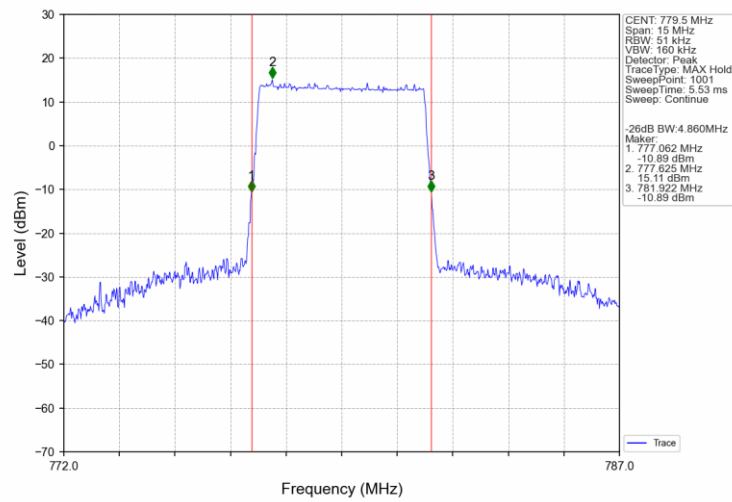
Band13 5MHz QPSK MCH 782MHz RB 25 0 NTNV



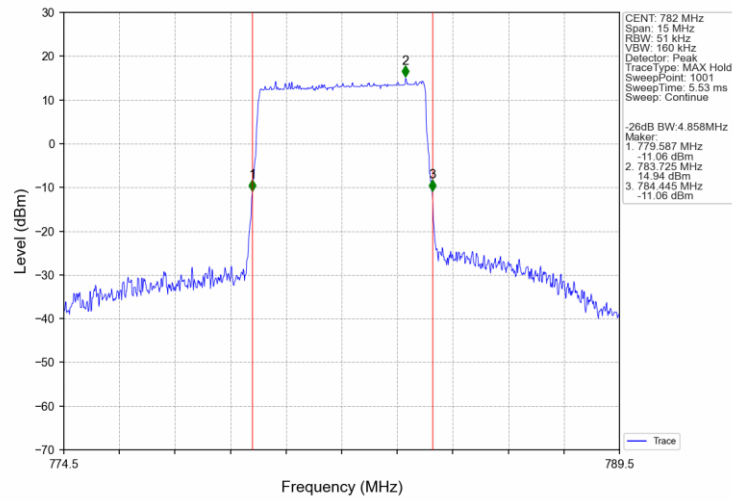
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTV



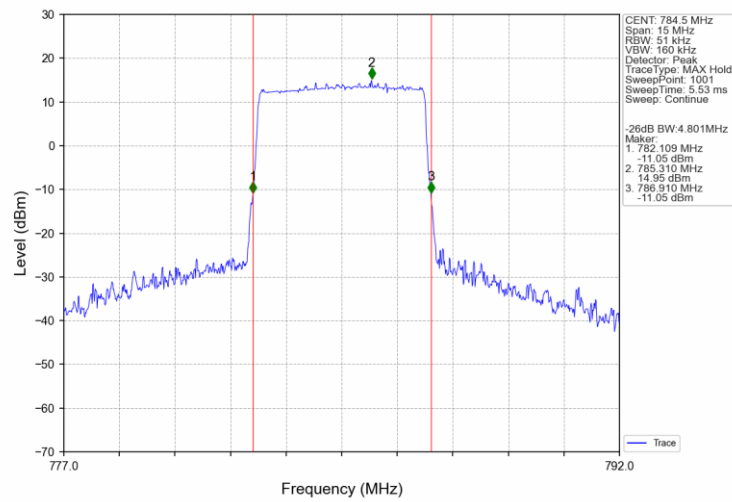
Band13 5MHz 16QAM LCH 779.5MHz RB 25 0 NTV



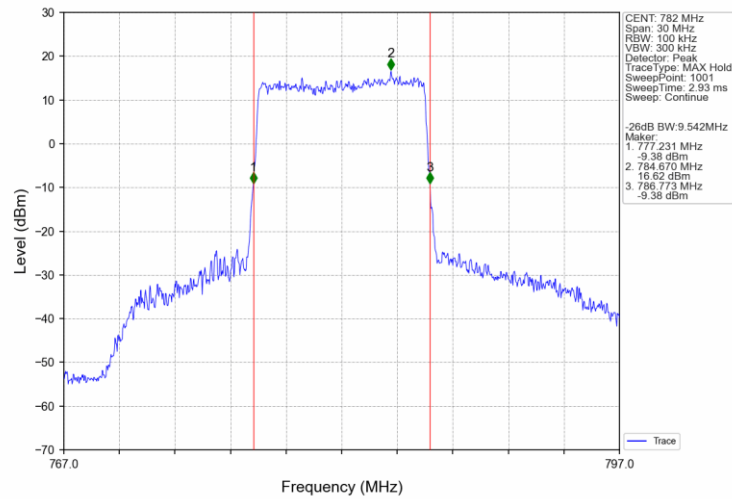
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



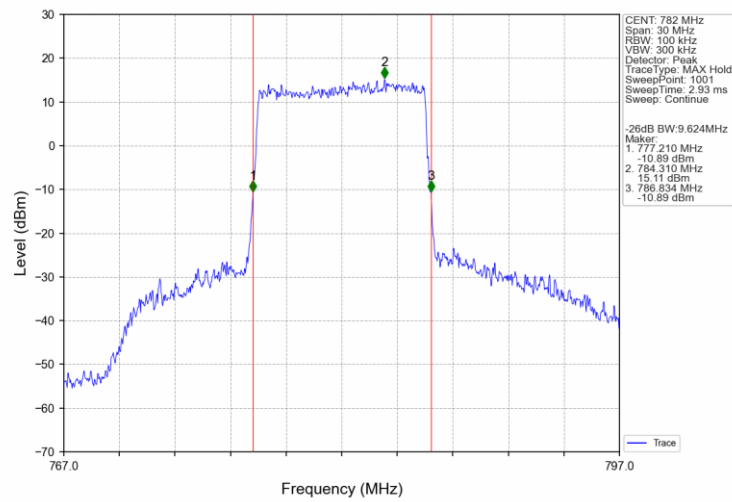
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



Band13 10MHz QPSK MCH 782MHz RB 50 0 NTN



Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTN



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B13_5MHz

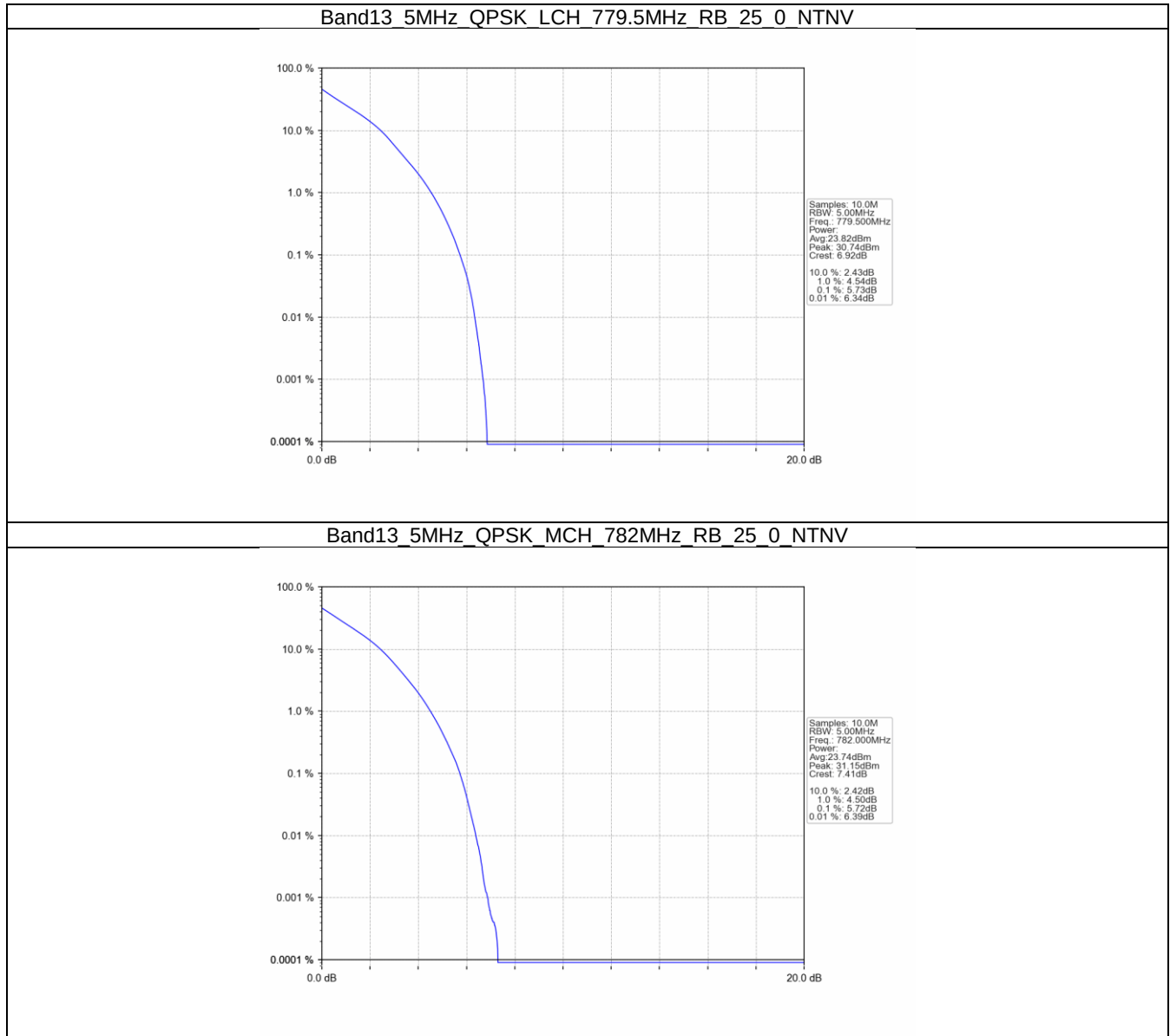
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.73	<=13	Pass
	782	25	0	5.72	<=13	Pass
	784.5	25	0	5.53	<=13	Pass
16QAM	779.5	25	0	6.41	<=13	Pass
	782	25	0	6.38	<=13	Pass
	784.5	25	0	6.19	<=13	Pass

5.1.2 B13_10MHz

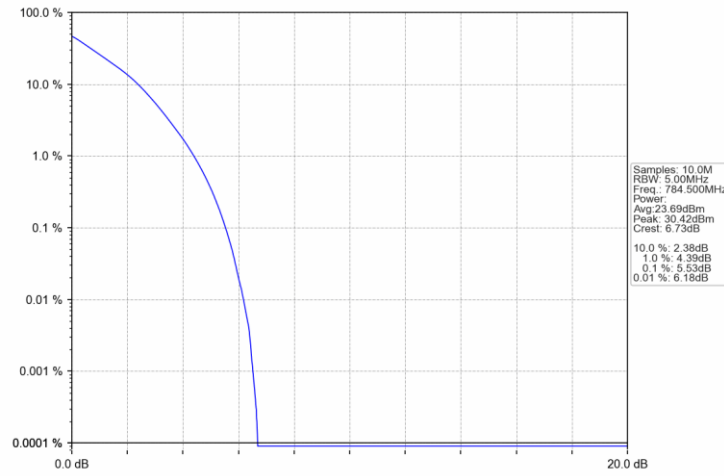
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.58	<=13	Pass
16QAM	782	50	0	6.31	<=13	Pass

5.2 Test Graph

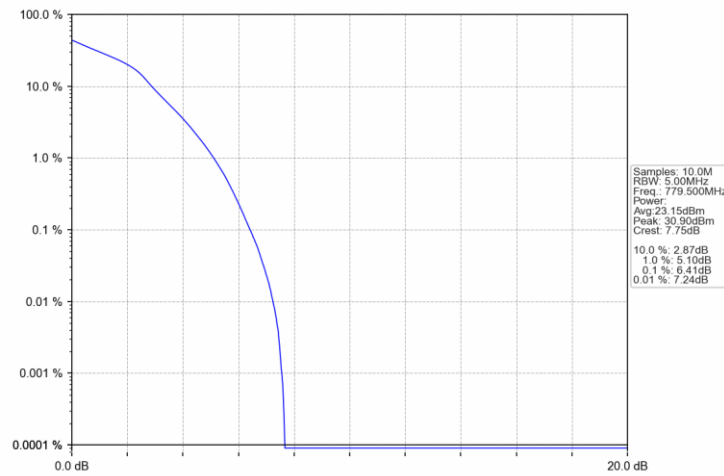
5.2.1 B13_5MHz



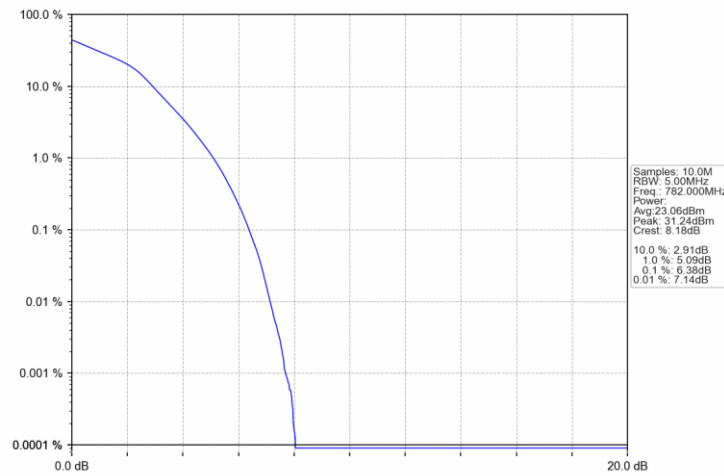
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTNV



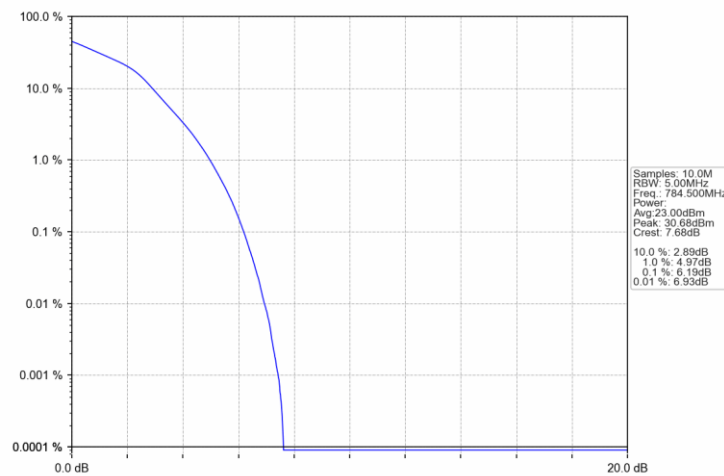
Band13 5MHz 16QAM LCH 779.5MHz RB 25 0 NTNV



Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV

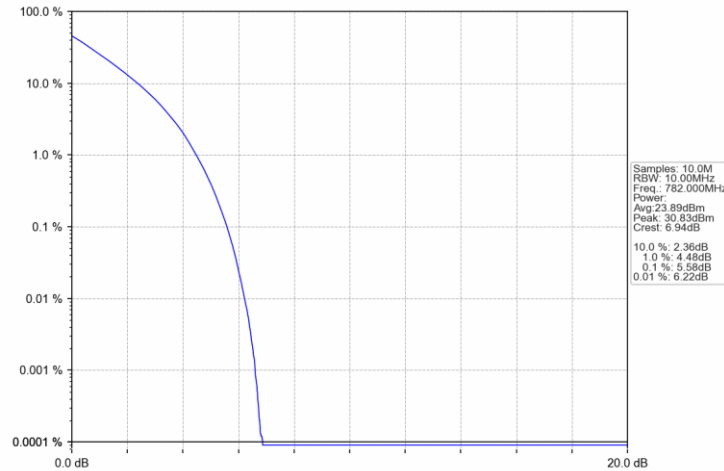


Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV

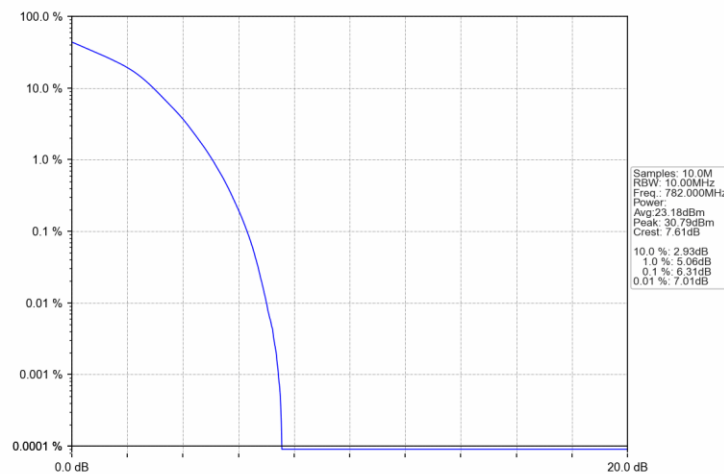


5.2.2 B13_10MHz

Band13 10MHz QPSK MCH 782MHz RB 50 0 NTNV



Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B13_5MHz

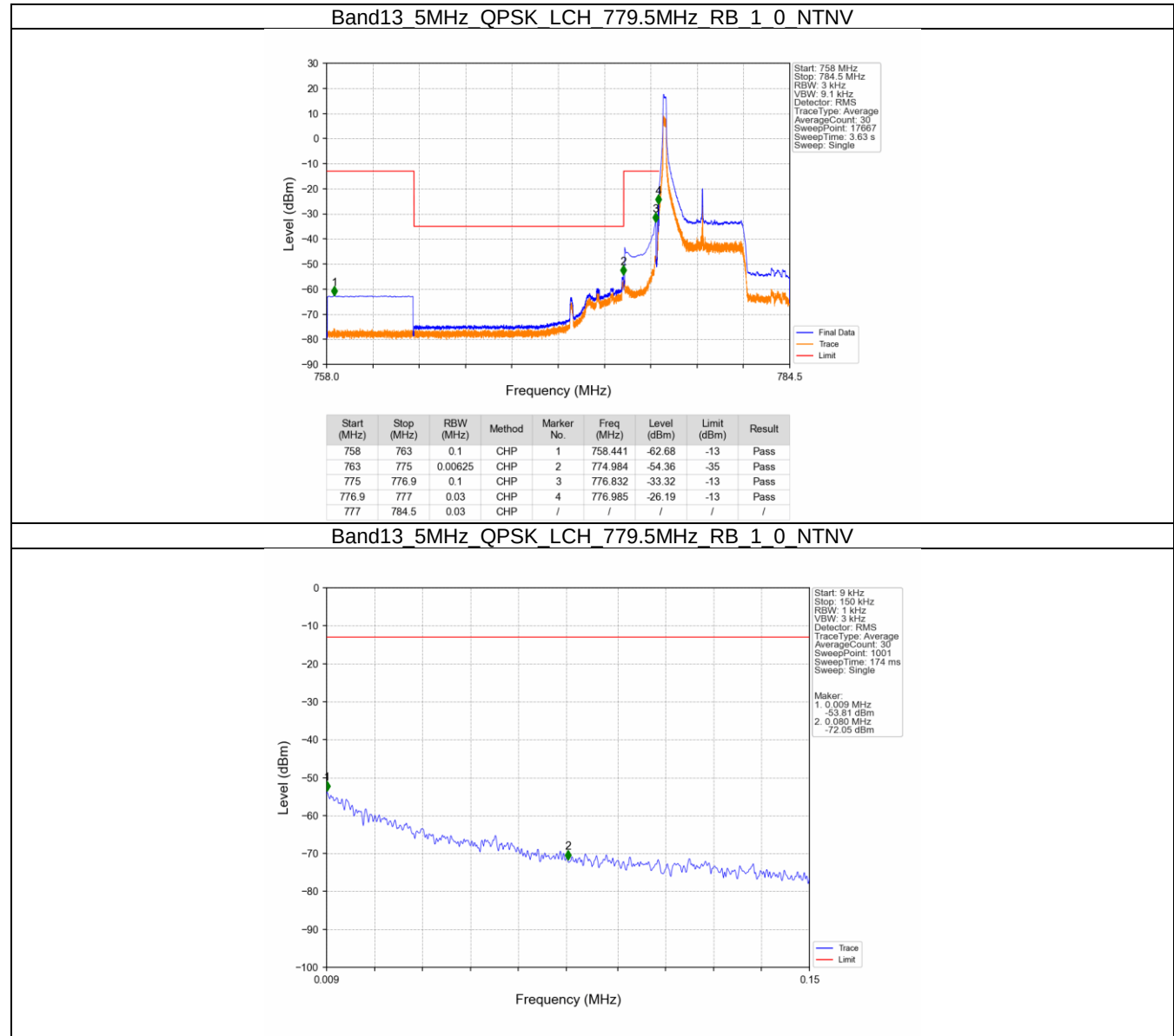
Band: 13 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

6.1.2 B13_10MHz

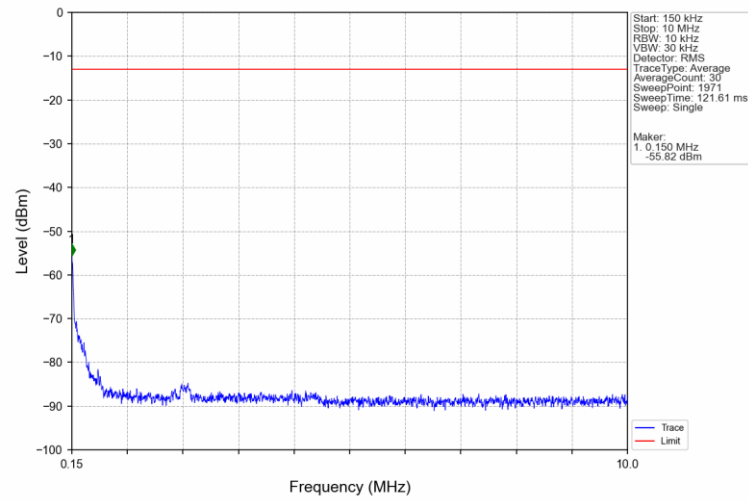
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	782	1	0	Refer To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

6.2 Test Graph

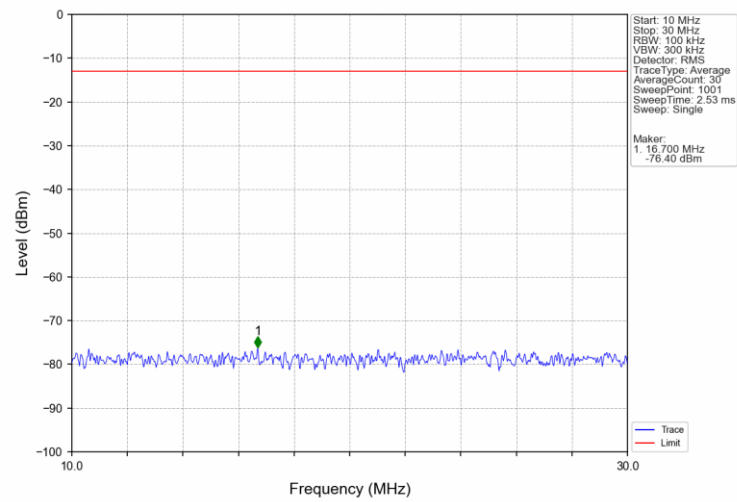
6.2.1 B13_5MHz



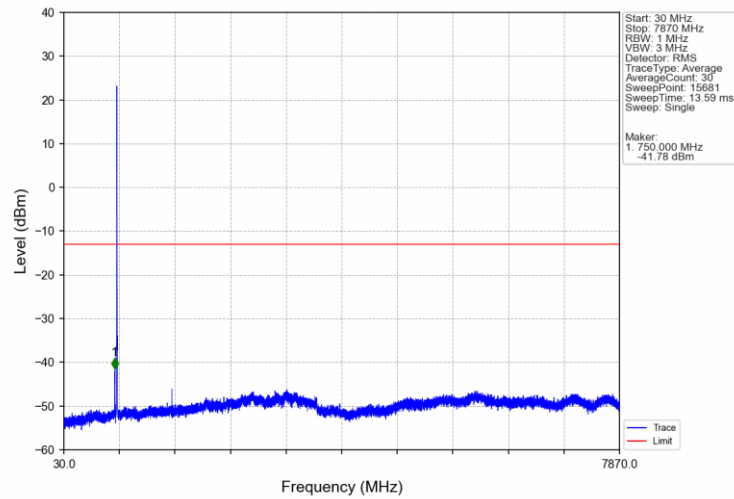
Band13 5MHz QPSK LCH 779.5MHz RB 1 0 NTN



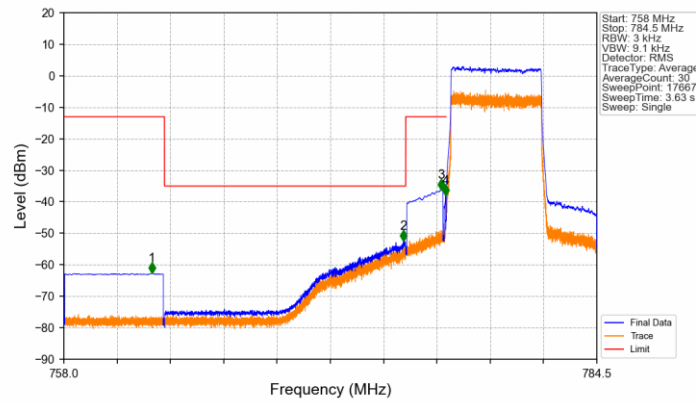
Band13 5MHz QPSK LCH 779.5MHz RB 1 0 NTN



Band13 5MHz QPSK LCH 779.5MHz RB 1 0 NTNV

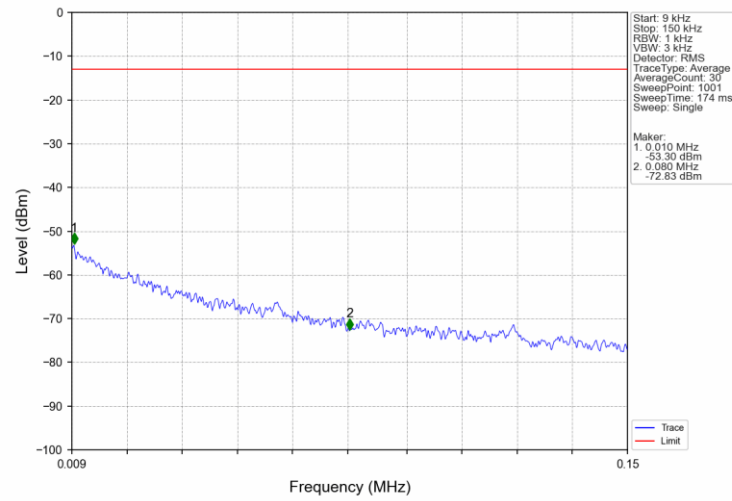


Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTNV

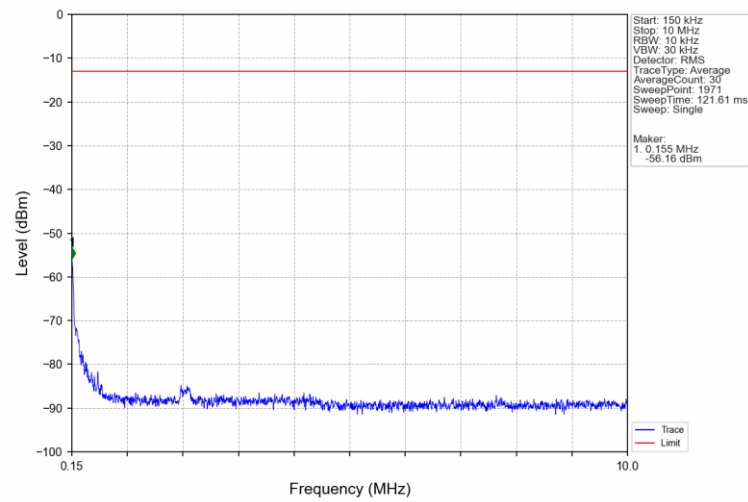


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.379	-62.73	-13	Pass
763	775	0.00625	CHP	2	774.886	-52.47	-35	Pass
775	776.9	0.1	CHP	3	776.757	-36.19	-13	Pass
776.9	777	0.03	CHP	4	776.985	-38.01	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

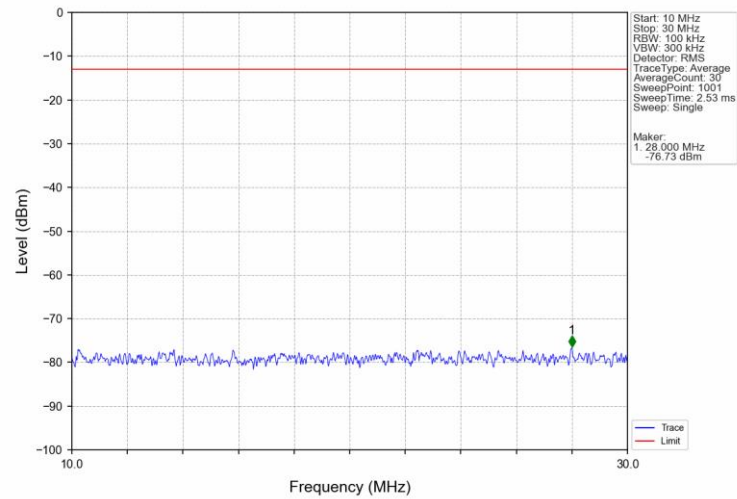
Band13 5MHz QPSK MCH 782MHz RB 1 0 NTNV



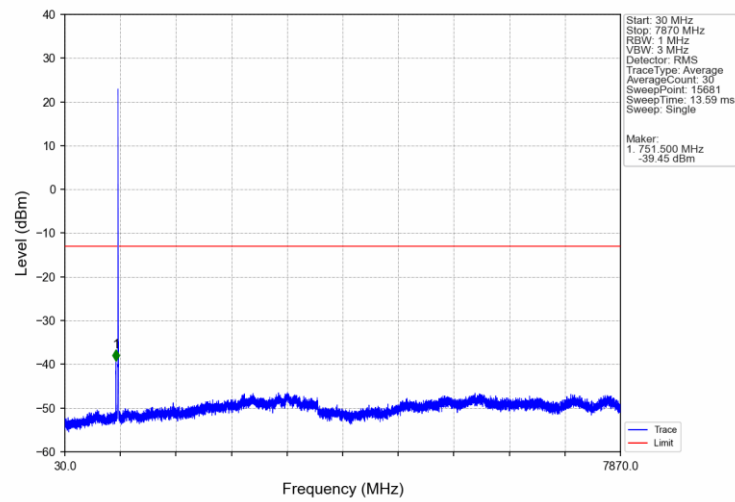
Band13 5MHz QPSK MCH 782MHz RB 1 0 NTNV



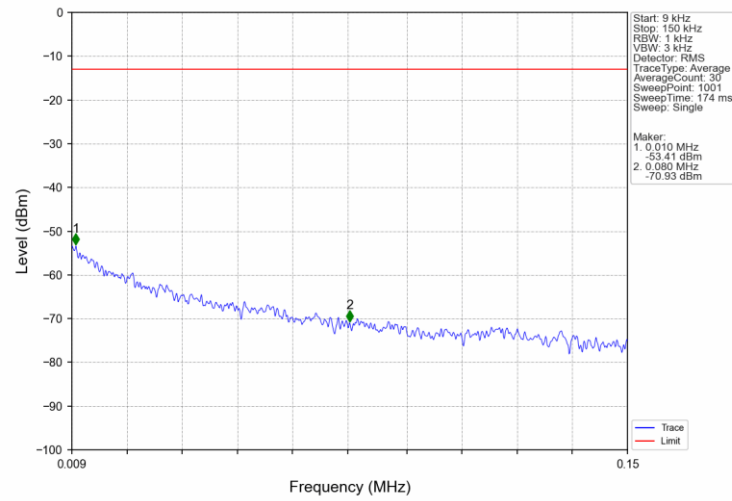
Band13 5MHz QPSK MCH 782MHz RB 1 0 NTNV



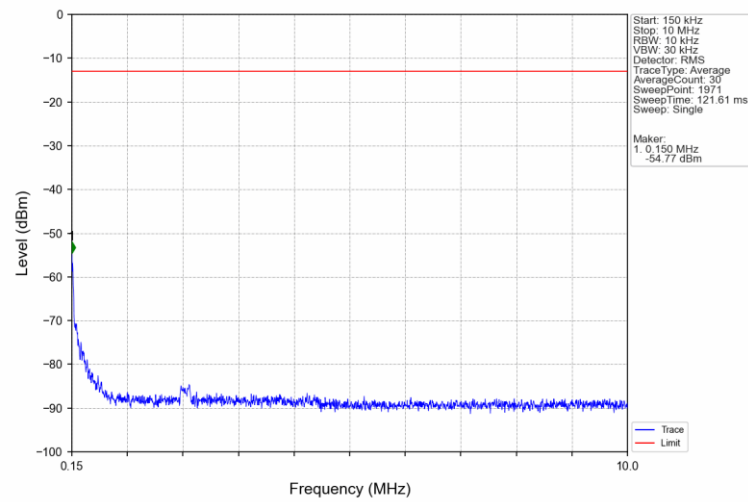
Band13 5MHz QPSK MCH 782MHz RB 1 0 NTNV



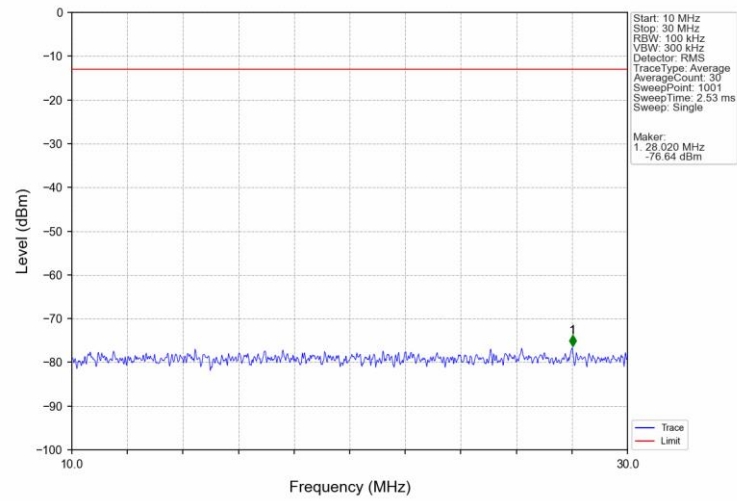
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



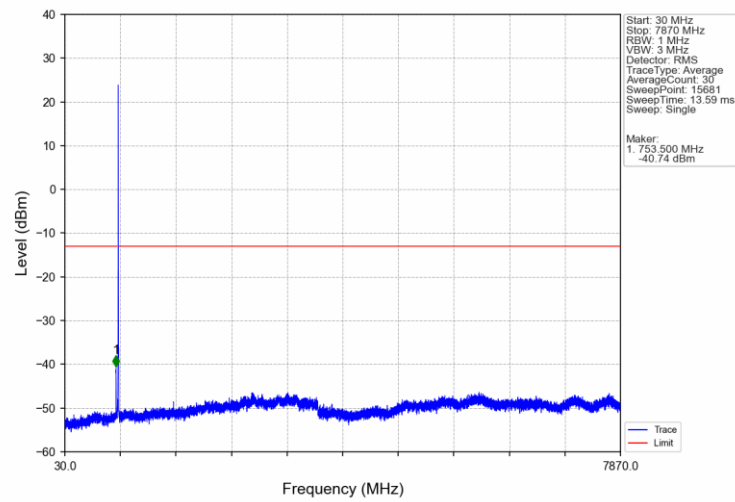
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



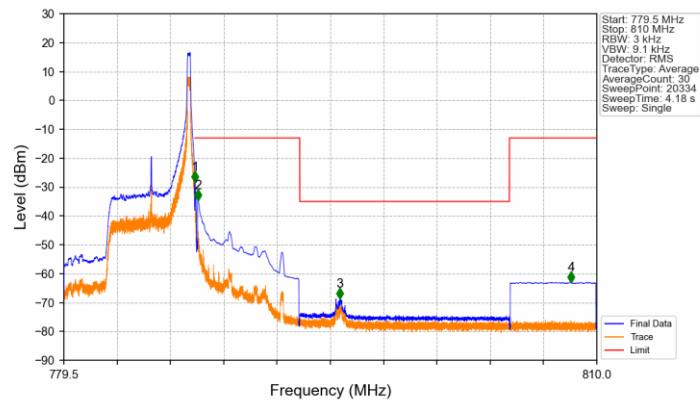
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN

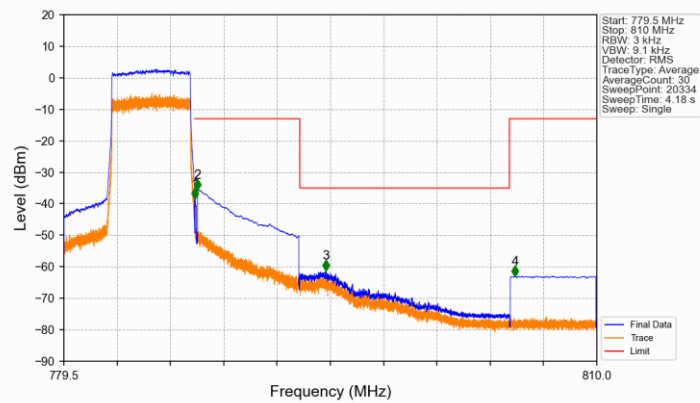


Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTV



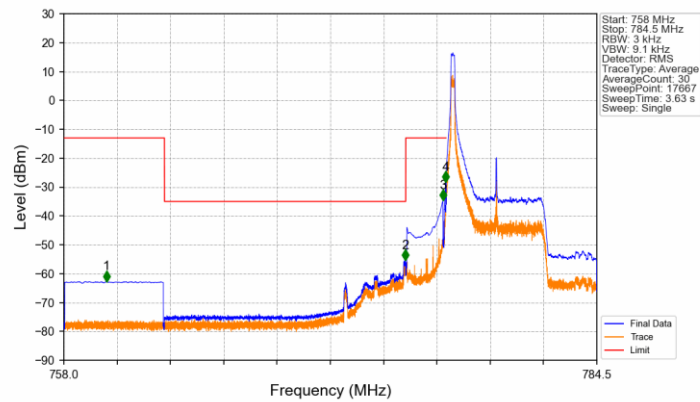
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.015	-28.26	-13	Pass
787.1	793	0.1	CHP	2	787.171	-34.66	-13	Pass
793	805	0.00625	CHP	3	795.304	-68.73	-35	Pass
805	810	0.1	CHP	4	808.536	-63.02	-13	Pass

Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTV



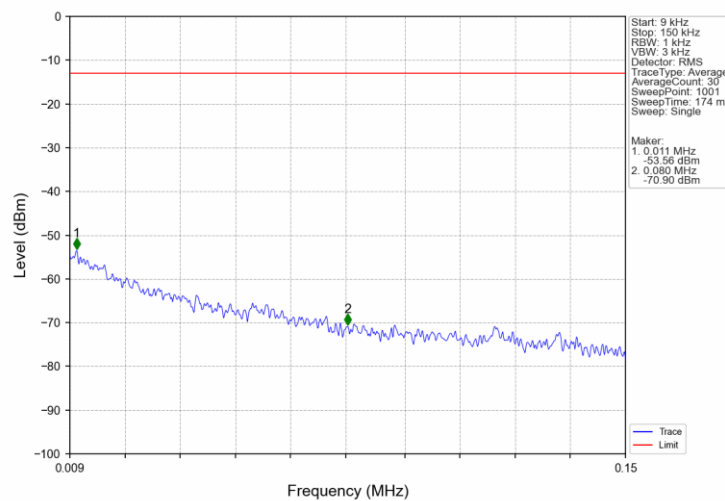
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.015	-38.44	-13	Pass
787.1	793	0.1	CHP	2	787.161	-35.70	-13	Pass
793	805	0.00625	CHP	3	794.494	-61.33	-35	Pass
805	810	0.1	CHP	4	805.320	-63.04	-13	Pass

Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTV

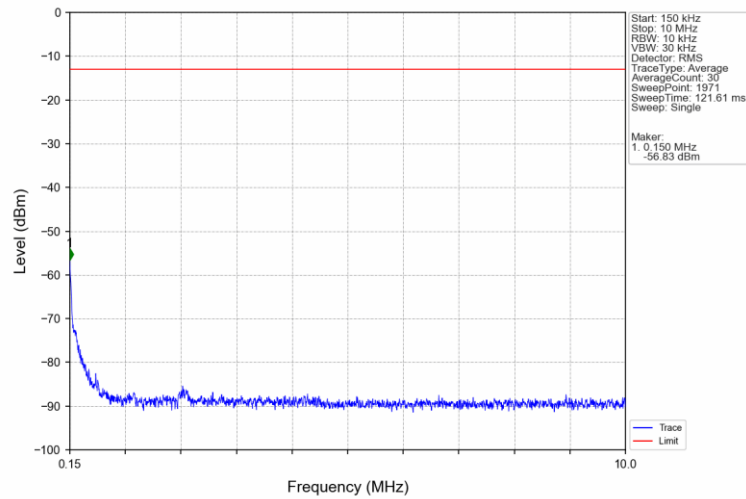


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.118	-62.72	-13	Pass
763	775	0.00625	CHP	2	774.988	-55.48	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.65	-13	Pass
776.9	777	0.03	CHP	4	776.985	-28.28	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

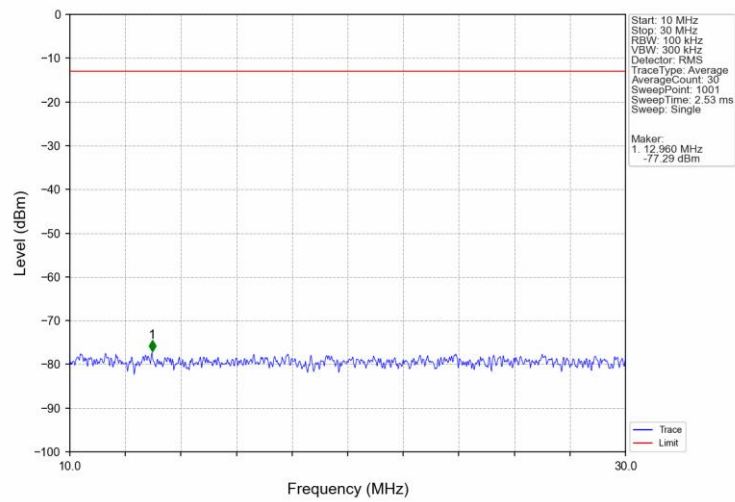
Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTV



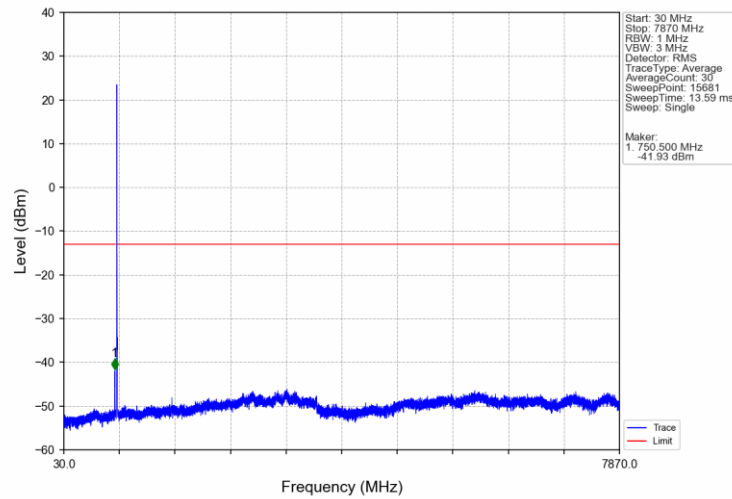
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



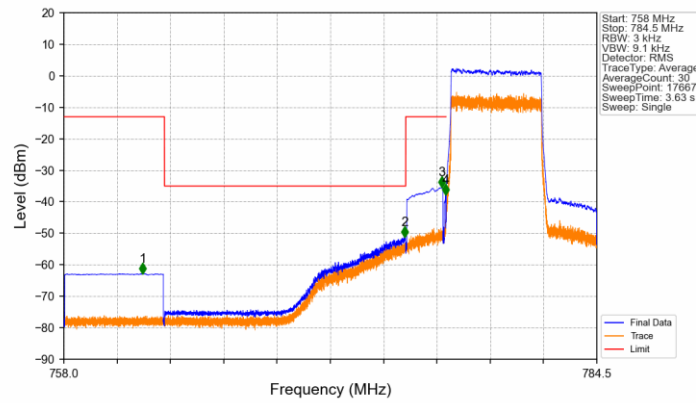
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTV

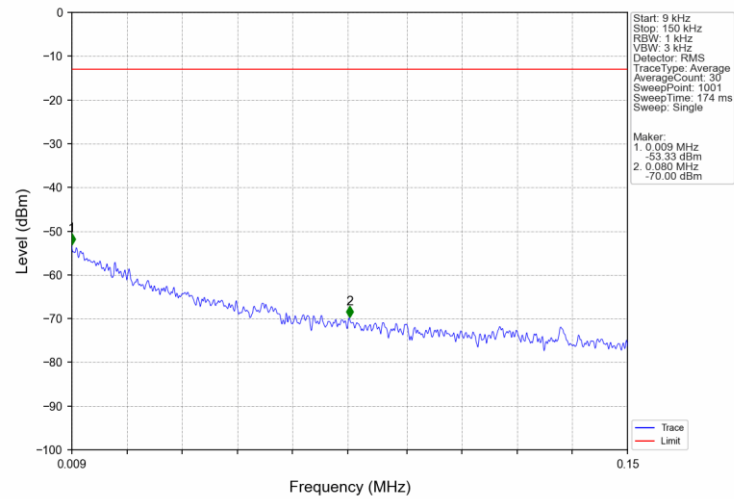


Band13 5MHz 16QAM LCH 779.5MHz RB 25 0 NTV

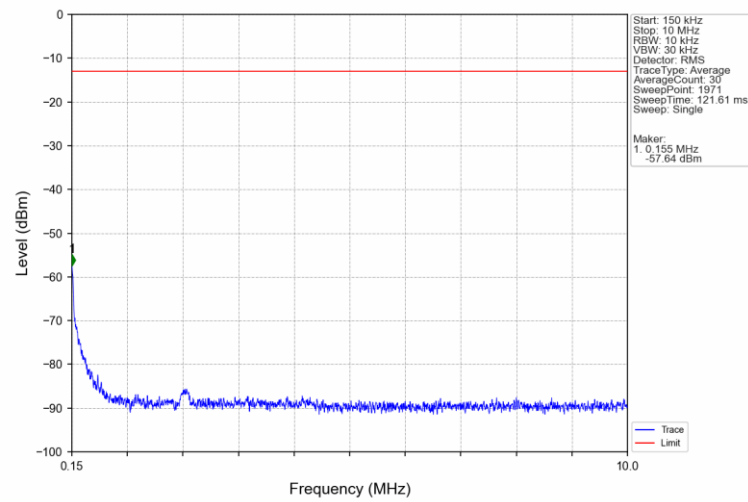


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.918	-62.82	-13	Pass
763	775	0.00625	CHP	2	774.958	-51.22	-35	Pass
775	776.9	0.1	CHP	3	776.785	-35.53	-13	Pass
776.9	777	0.03	CHP	4	776.985	-37.86	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

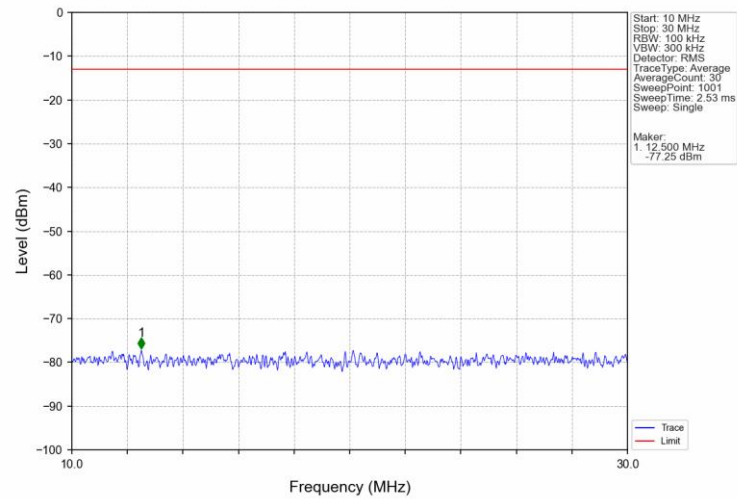
Band13 5MHz 16QAM MCH 782MHz RB 1 0 NTNV



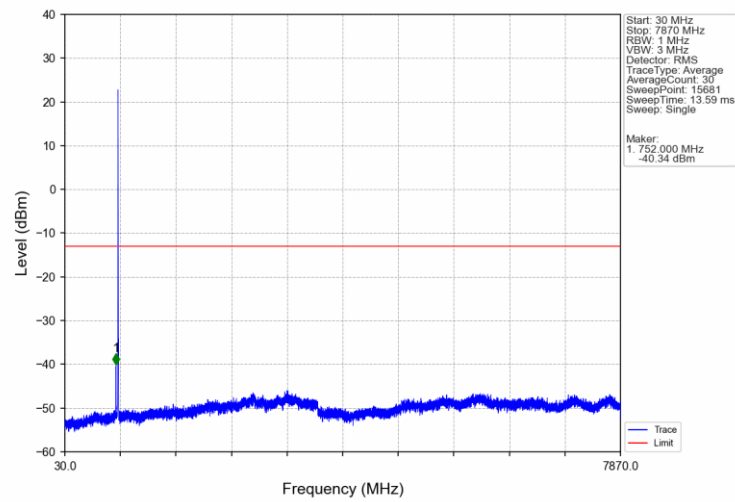
Band13 5MHz 16QAM MCH 782MHz RB 1 0 NTNV



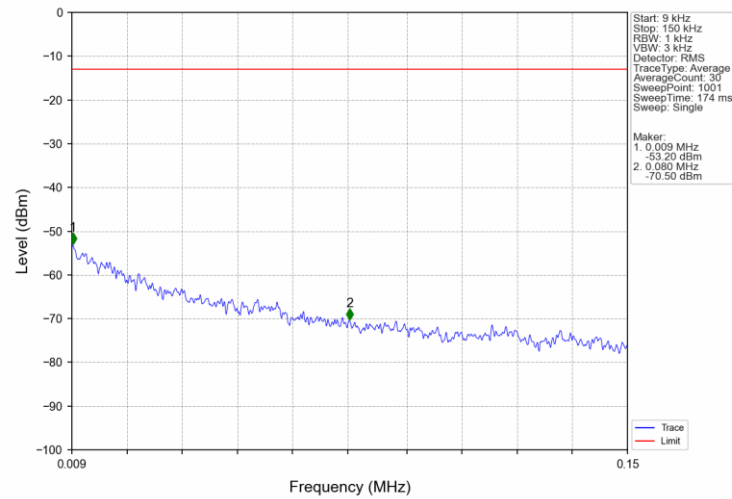
Band13 5MHz 16QAM MCH 782MHz RB 1 0 NTN



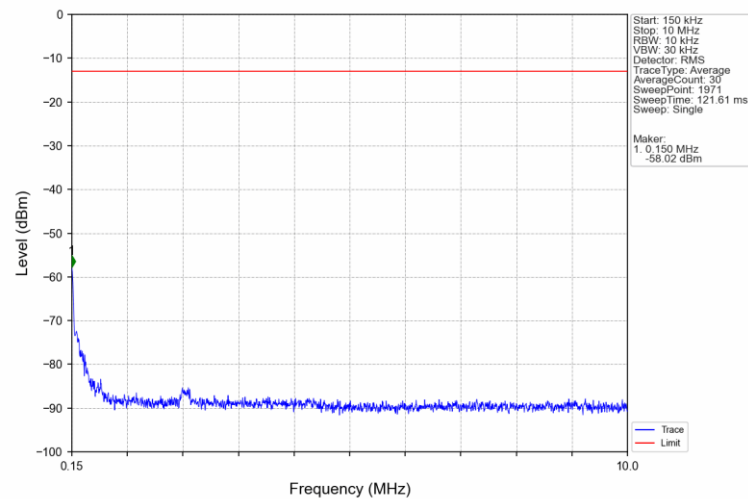
Band13 5MHz 16QAM MCH 782MHz RB 1 0 NTN



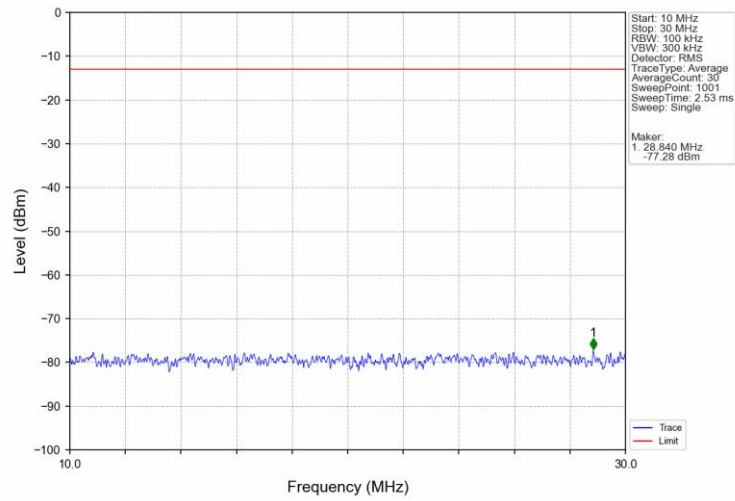
Band13 5MHz 16QAM HCH 784.5MHz RB 1 0 NTV



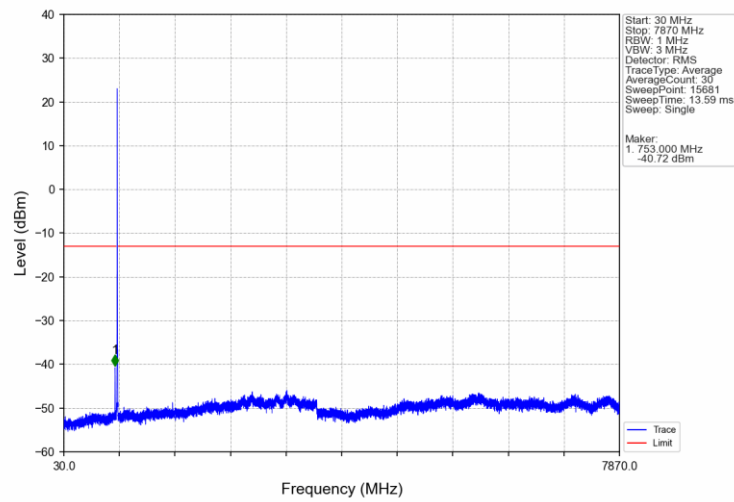
Band13 5MHz 16QAM HCH 784.5MHz RB 1 0 NTV



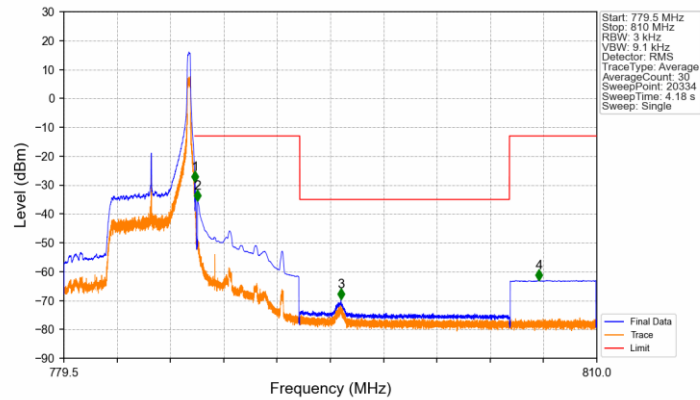
Band13 5MHz 16QAM HCH 784.5MHz RB 1 0 NTV



Band13 5MHz 16QAM HCH 784.5MHz RB 1 0 NTV

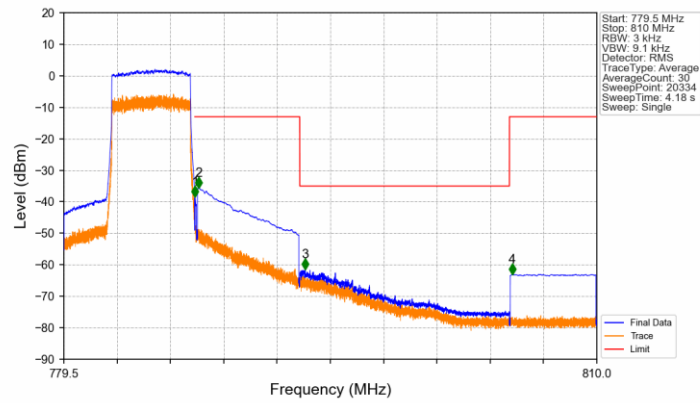


Band13 5MHz 16QAM HCH 784.5MHz RB 1 24 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.015	-28.86	-13	Pass
787.1	793	0.1	CHP	2	787.150	-35.57	-13	Pass
793	805	0.00625	CHP	3	795.354	-69.64	-35	Pass
805	810	0.1	CHP	4	806.688	-63.07	-13	Pass

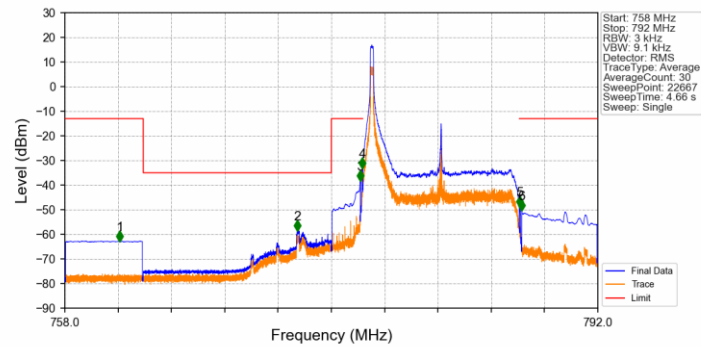
Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.015	-38.50	-13	Pass
787.1	793	0.1	CHP	2	787.207	-35.64	-13	Pass
793	805	0.00625	CHP	3	793.309	-61.43	-35	Pass
805	810	0.1	CHP	4	805.155	-63.07	-13	Pass

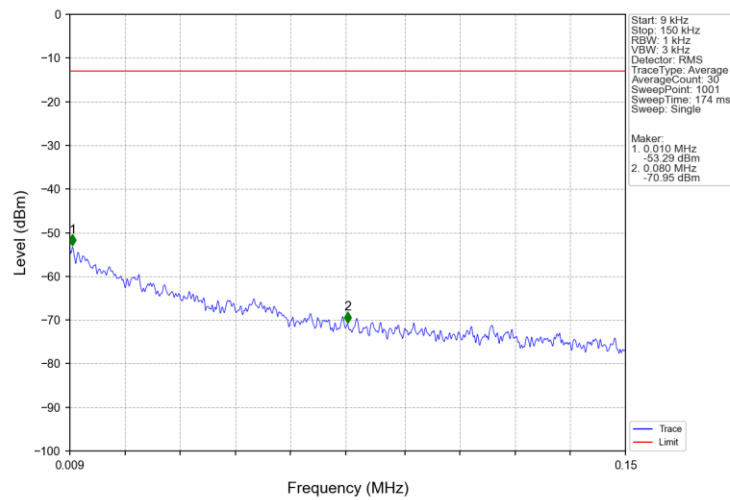
6.2.2 B13_10MHz

Band13 10MHz QPSK LCH 782MHz RB 1 0 NTN

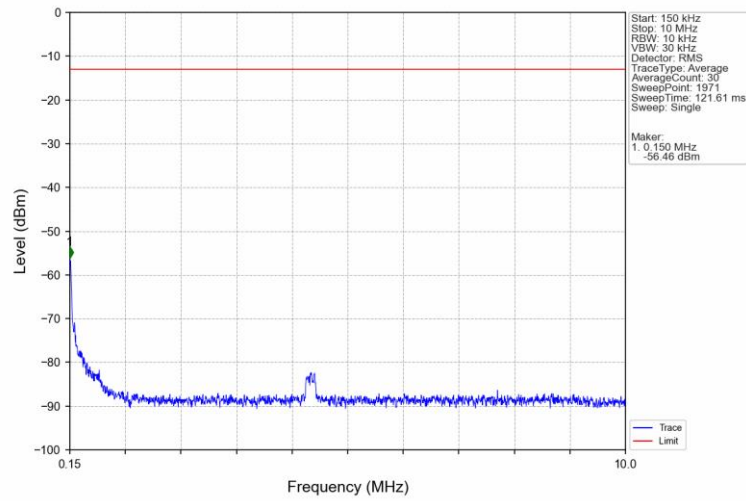


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.504	-62.70	-13	Pass
763	775	0.00625	CHP	2	772.834	-58.32	-35	Pass
775	776.9	0.1	CHP	3	776.850	-38.17	-13	Pass
776.9	777	0.03	CHP	4	776.985	-33.02	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.017	-48.61	-13	Pass
787.1	792	0.1	CHP	6	787.150	-50.22	-13	Pass

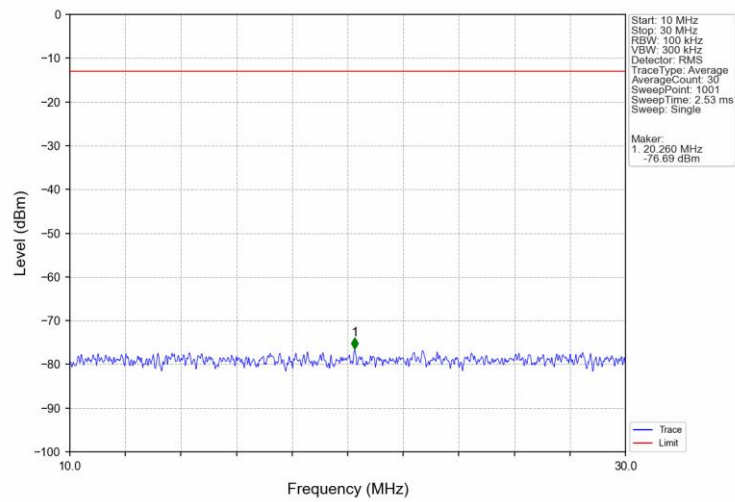
Band13 10MHz QPSK LCH 782MHz RB 1 0 NTN



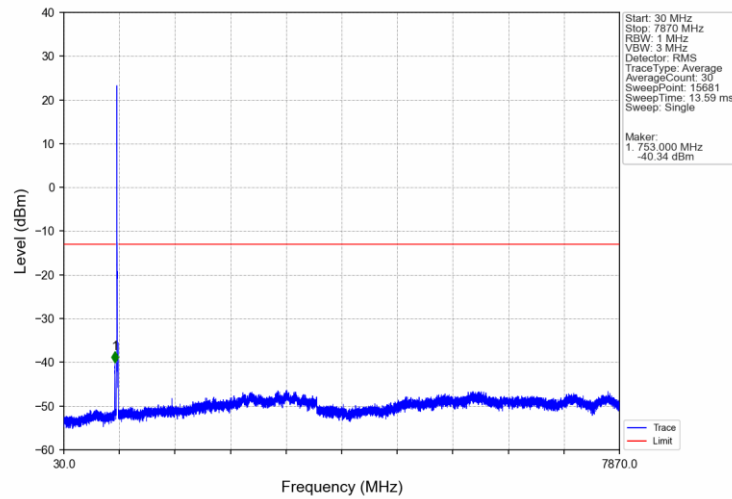
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



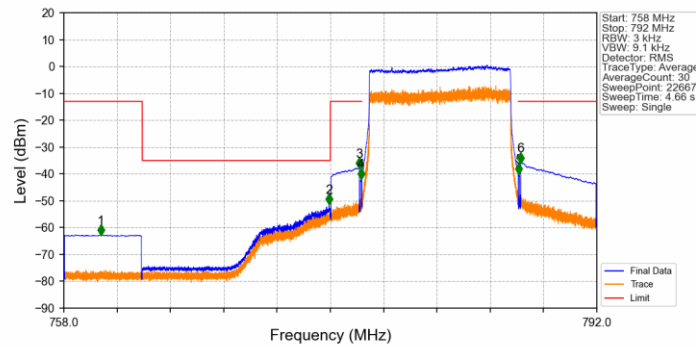
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

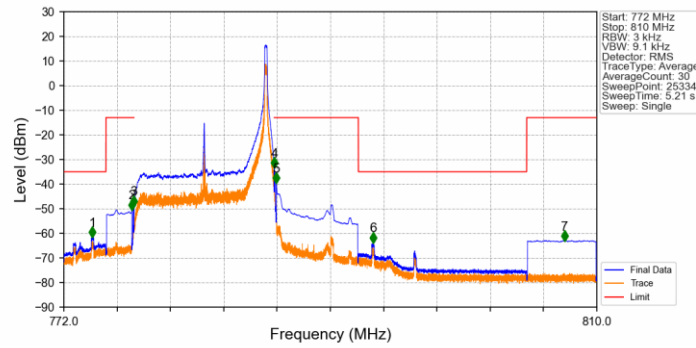


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



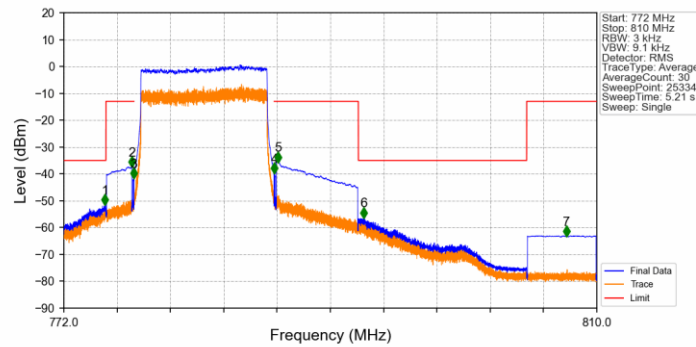
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.363	-62.70	-13	Pass
763	775	0.00625	CHP	2	774.928	-51.14	-35	Pass
775	776.9	0.1	CHP	3	776.848	-37.65	-13	Pass
776.9	777	0.03	CHP	4	776.970	-41.58	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.030	-39.80	-13	Pass
787.1	792	0.1	CHP	6	787.150	-35.71	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 1 49 NTNV



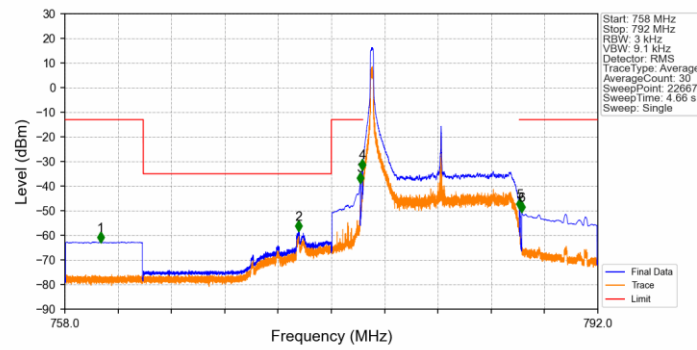
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.043	-61.44	-35	Pass
775	776.9	0.1	CHP	2	776.850	-50.26	-13	Pass
776.9	777	0.03	CHP	3	776.985	-48.74	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.015	-33.16	-13	Pass
787.1	793	0.1	CHP	5	787.150	-39.41	-13	Pass
793	805	0.00625	CHP	6	794.040	-63.58	-35	Pass
805	810	0.1	CHP	7	807.690	-62.97	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 50 0 NTNV

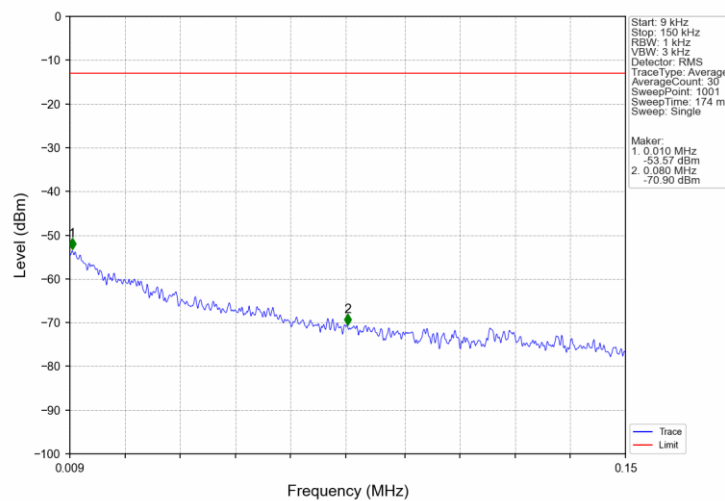


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.930	-51.43	-35	Pass
775	776.9	0.1	CHP	2	776.847	-37.27	-13	Pass
776.9	777	0.03	CHP	3	776.985	-41.52	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.017	-39.55	-13	Pass
787.1	793	0.1	CHP	5	787.267	-35.51	-13	Pass
793	805	0.00625	CHP	6	793.377	-56.18	-35	Pass
805	810	0.1	CHP	7	807.858	-63.03	-13	Pass

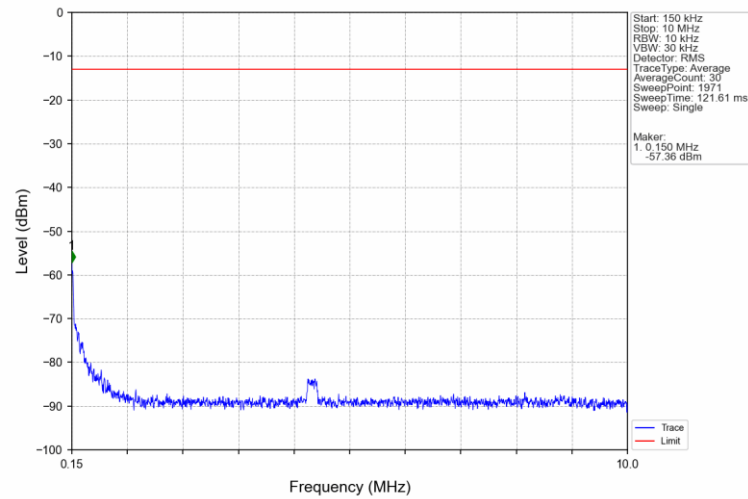
Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV



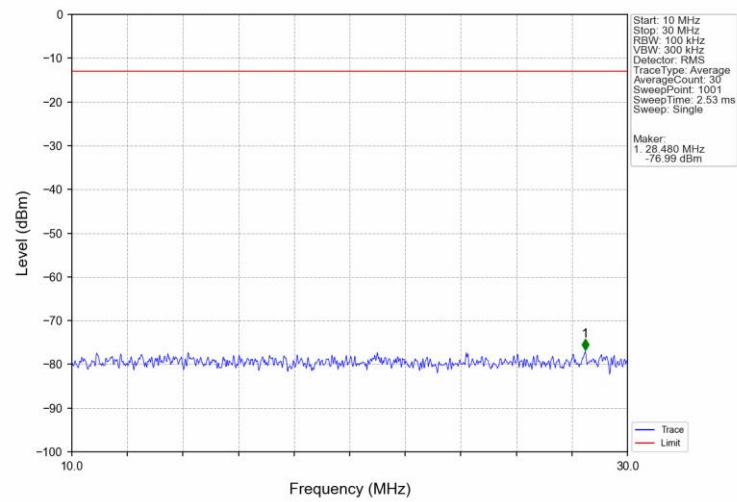
Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV



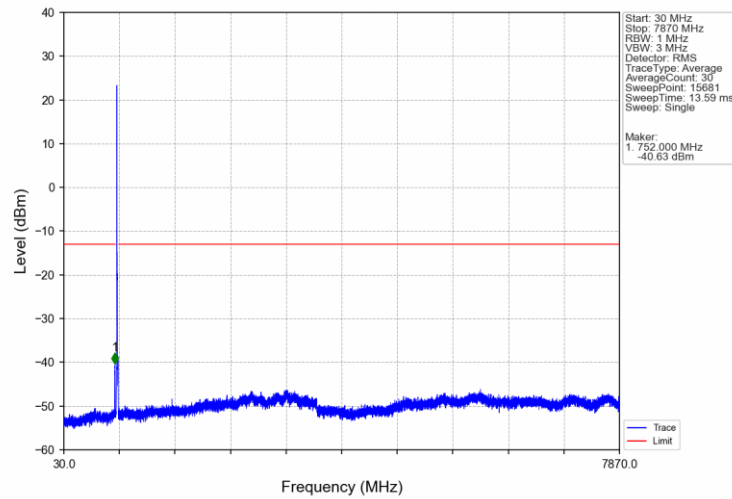
Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTN



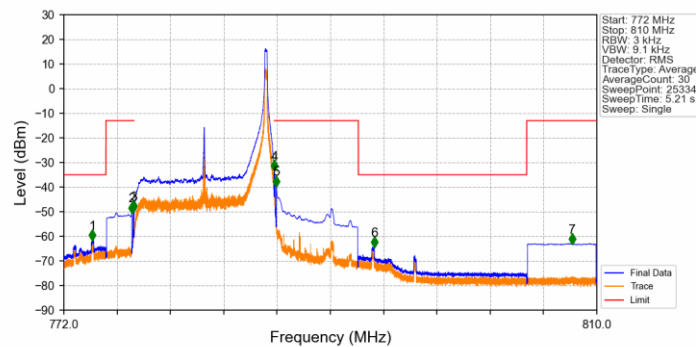
Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTN



Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV



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	CHP	1	774.042	-61.38	-35	Pass
775	776.9	0.1	CHP	2	776.850	-50.29	-13	Pass
776.9	777	0.03	CHP	3	776.985	-49.63	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.015	-33.29	-13	Pass
787.1	793	0.1	CHP	5	787.150	-39.49	-13	Pass
793	805	0.00625	CHP	6	794.130	-64.18	-35	Pass
805	810	0.1	CHP	7	808.240	-62.96	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
13	5	779.5	784.5	0.2992	0.0107	ppm	4M50G7D	27F	24.76
13	5	779.5	784.5	0.2582	0.0096	ppm	4M48W7D	27F	24.12
13	10	782	782	0.2951	0.0069	ppm	8M94G7D	27F	24.70
13	10	782	782	0.2818	0.0041	ppm	8M96W7D	27F	24.50

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
13	5	779.5	784.5	0.1837	0.0107	ppm	4M50G7D	27F	22.64
13	5	779.5	784.5	0.1585	0.0096	ppm	4M48W7D	27F	22.00
13	10	782	782	0.1811	0.0069	ppm	8M94G7D	27F	22.58
13	10	782	782	0.1730	0.0041	ppm	8M96W7D	27F	22.38

***** End of Report *****