

Appendix A.8

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	22.90	0.20	20.95	<=34.77	Pass
			13	22.72	0.20	20.77	<=34.77	Pass
			24	22.97	0.20	21.02	<=34.77	Pass
		12	0	22.02	0.20	20.07	<=34.77	Pass
			6	21.99	0.20	20.04	<=34.77	Pass
			13	21.97	0.20	20.02	<=34.77	Pass
		25	0	22.11	0.20	20.16	<=34.77	Pass
	782	1	0	22.78	0.20	20.83	<=34.77	Pass
			13	23.01	0.20	21.06	<=34.77	Pass
			24	23.03	0.20	21.08	<=34.77	Pass
		12	0	22.07	0.20	20.12	<=34.77	Pass
			6	21.98	0.20	20.03	<=34.77	Pass
			13	22.09	0.20	20.14	<=34.77	Pass
		25	0	22.13	0.20	20.18	<=34.77	Pass
	784.5	1	0	22.89	0.20	20.94	<=34.77	Pass
			13	23.02	0.20	21.07	<=34.77	Pass
			24	23.29	0.20	21.34	<=34.77	Pass
		12	0	21.80	0.20	19.85	<=34.77	Pass
			6	22.01	0.20	20.06	<=34.77	Pass
			13	22.18	0.20	20.23	<=34.77	Pass
		25	0	22.03	0.20	20.08	<=34.77	Pass
16QAM	779.5	1	0	21.78	0.20	19.83	<=34.77	Pass
			13	21.69	0.20	19.74	<=34.77	Pass
			24	21.91	0.20	19.96	<=34.77	Pass
		12	0	20.91	0.20	18.96	<=34.77	Pass
			6	20.94	0.20	18.99	<=34.77	Pass
			13	20.91	0.20	18.96	<=34.77	Pass
		25	0	20.99	0.20	19.04	<=34.77	Pass
	782	1	0	21.74	0.20	19.79	<=34.77	Pass
			13	21.78	0.20	19.83	<=34.77	Pass
			24	21.69	0.20	19.74	<=34.77	Pass
		12	0	20.81	0.20	18.86	<=34.77	Pass
			6	20.84	0.20	18.89	<=34.77	Pass
			13	20.94	0.20	18.99	<=34.77	Pass
		25	0	20.87	0.20	18.92	<=34.77	Pass
	784.5	1	0	21.91	0.20	19.96	<=34.77	Pass
			13	21.77	0.20	19.82	<=34.77	Pass
			24	21.93	0.20	19.98	<=34.77	Pass
		12	0	20.80	0.20	18.85	<=34.77	Pass
			6	20.92	0.20	18.97	<=34.77	Pass
			13	20.99	0.20	19.04	<=34.77	Pass
		25	0	21.02	0.20	19.07	<=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	23.05	0.20	21.10	<=34.77	Pass
			25	23.17	0.20	21.22	<=34.77	Pass
			49	22.97	0.20	21.02	<=34.77	Pass
		25	0	22.09	0.20	20.14	<=34.77	Pass
			13	22.05	0.20	20.10	<=34.77	Pass
			25	22.14	0.20	20.19	<=34.77	Pass
		50	0	22.12	0.20	20.17	<=34.77	Pass
16QAM	782	1	0	21.95	0.20	20.00	<=34.77	Pass
			25	21.85	0.20	19.90	<=34.77	Pass
			49	21.82	0.20	19.87	<=34.77	Pass
		25	0	21.17	0.20	19.22	<=34.77	Pass
			13	21.12	0.20	19.17	<=34.77	Pass
			25	21.13	0.20	19.18	<=34.77	Pass
		50	0	21.09	0.20	19.14	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B13_10MHz

Band: 13 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	102	-1.400	-0.0018	-2.5 to 2.5	Pass
					120	-1.200	-0.0015	-2.5 to 2.5	Pass
					138	-1.000	-0.0013	-2.5 to 2.5	Pass
				-30	120	-1.100	-0.0014	-2.5 to 2.5	Pass
				-20	120	0.200	0.0003	-2.5 to 2.5	Pass
				-10	120	0.300	0.0004	-2.5 to 2.5	Pass
				0	120	0.700	0.0009	-2.5 to 2.5	Pass
				10	120	-2.400	-0.0031	-2.5 to 2.5	Pass
				30	120	-2.400	-0.0031	-2.5 to 2.5	Pass
				40	120	0.200	0.0003	-2.5 to 2.5	Pass
50	120	-1.300	-0.0017	-2.5 to 2.5	Pass				

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

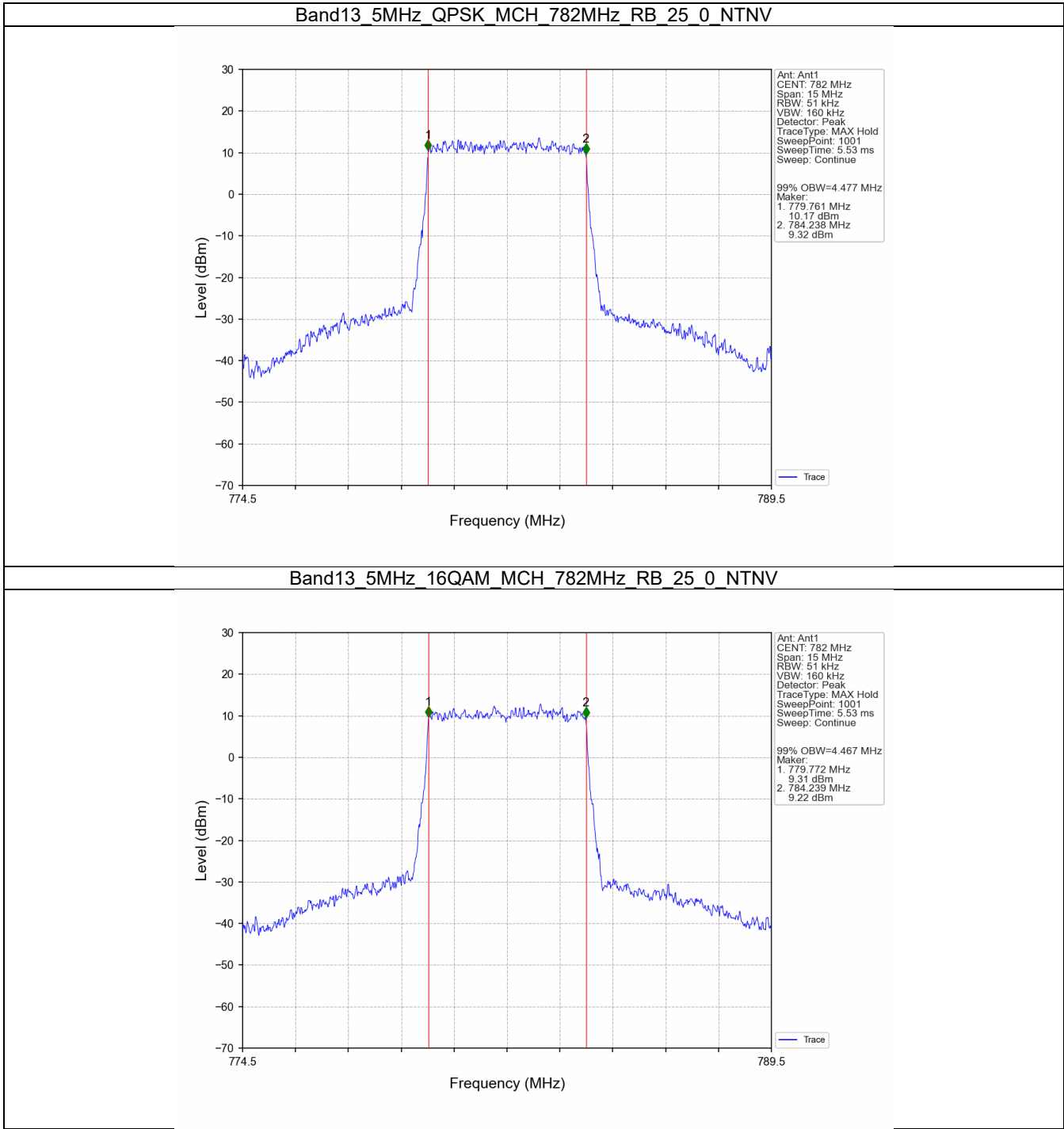
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.477	/	Pass
	16QAM	782	25	0	4.467	/	Pass
10	QPSK	782	50	0	8.940	/	Pass
	16QAM	782	50	0	8.913	/	Pass

3.1.2 Band13_XDB

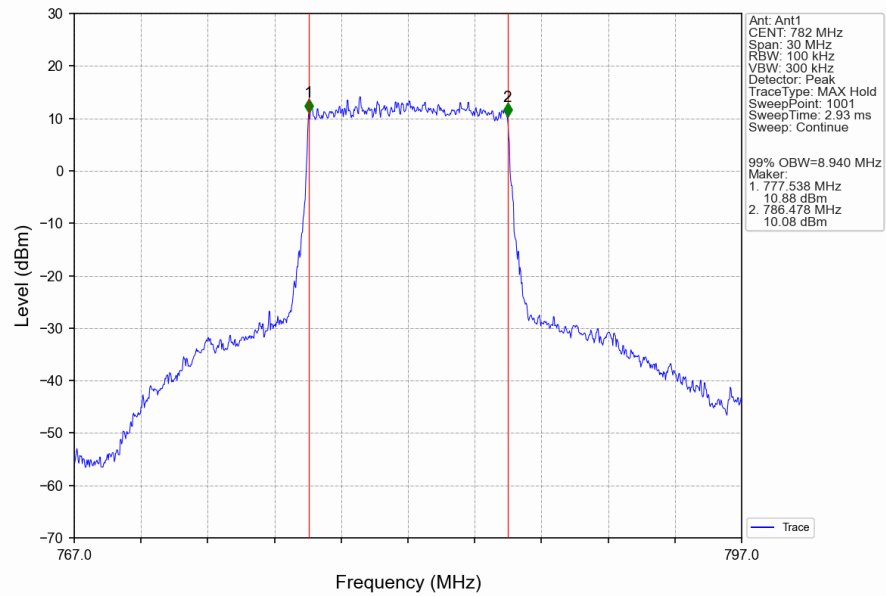
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.924	/	Pass
	16QAM	782	25	0	4.896	/	Pass
10	QPSK	782	50	0	9.548	/	Pass
	16QAM	782	50	0	9.613	/	Pass

3.2 Test Graph

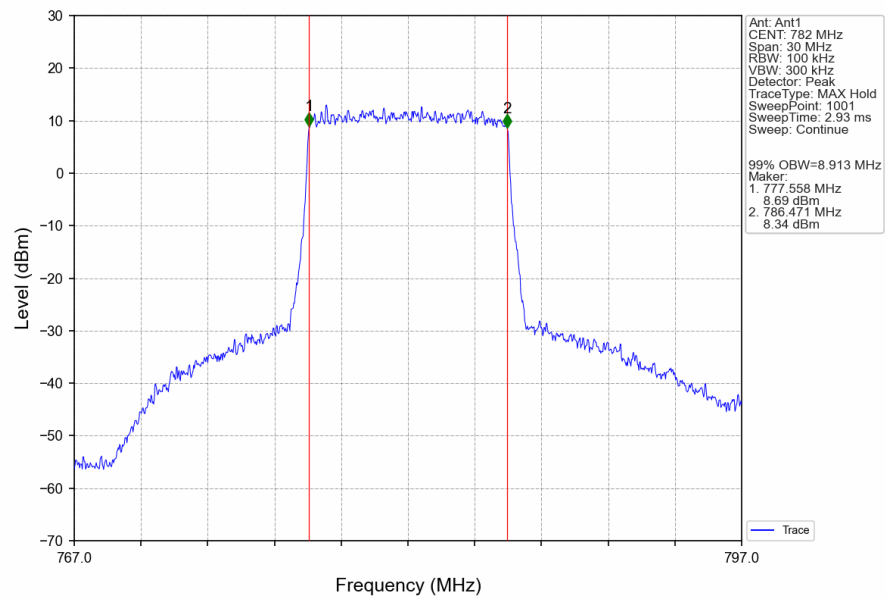
3.2.1 Band13_OBW



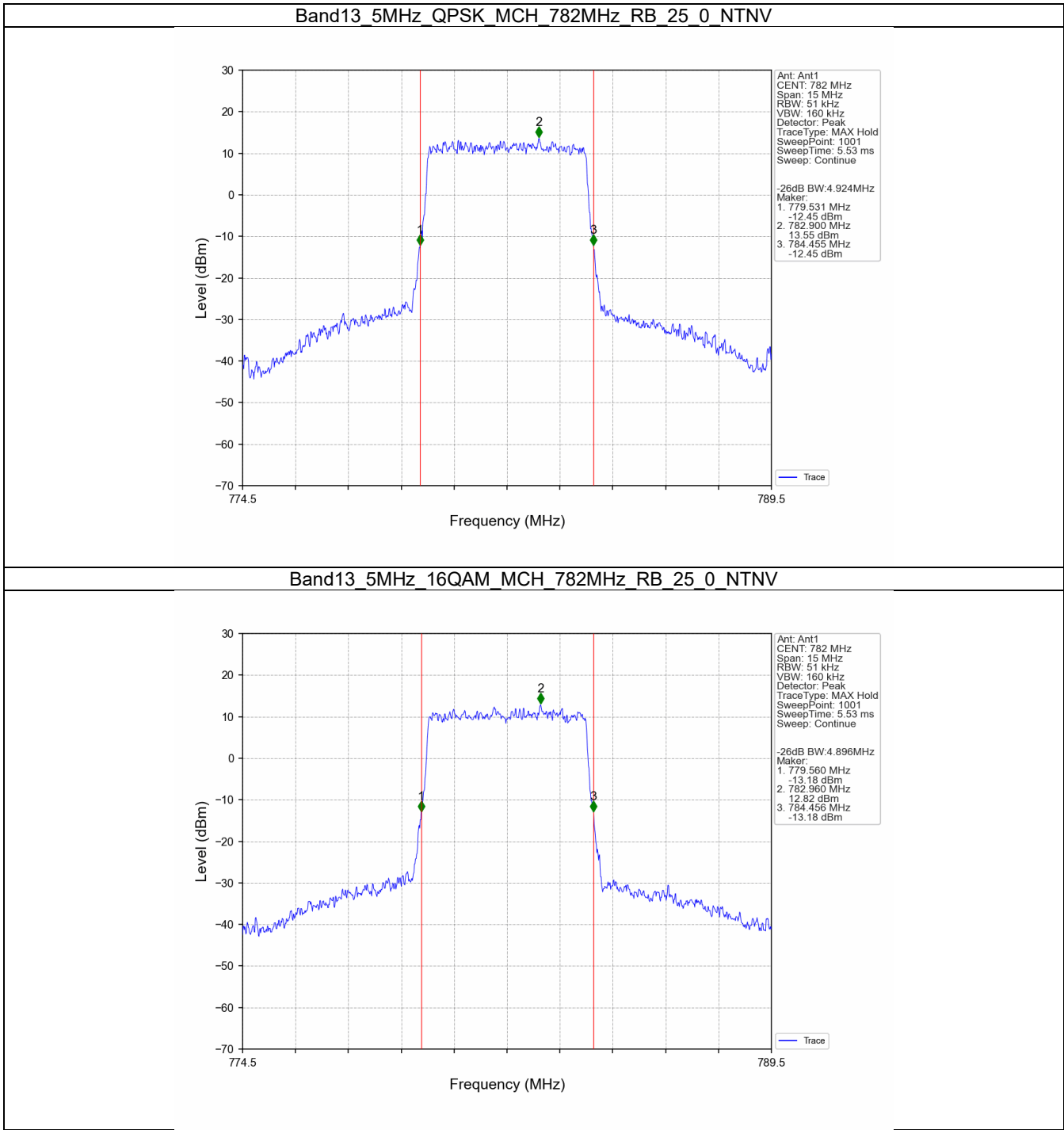
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



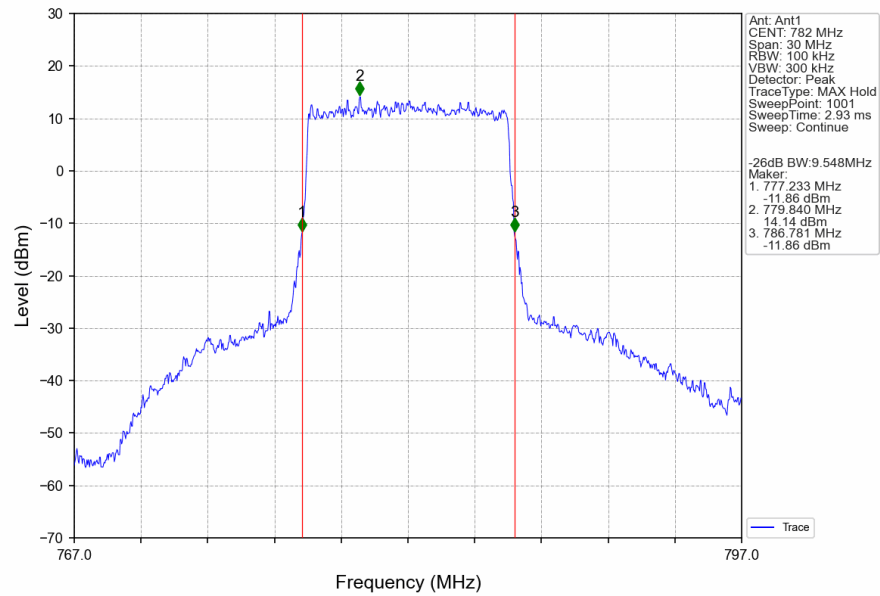
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



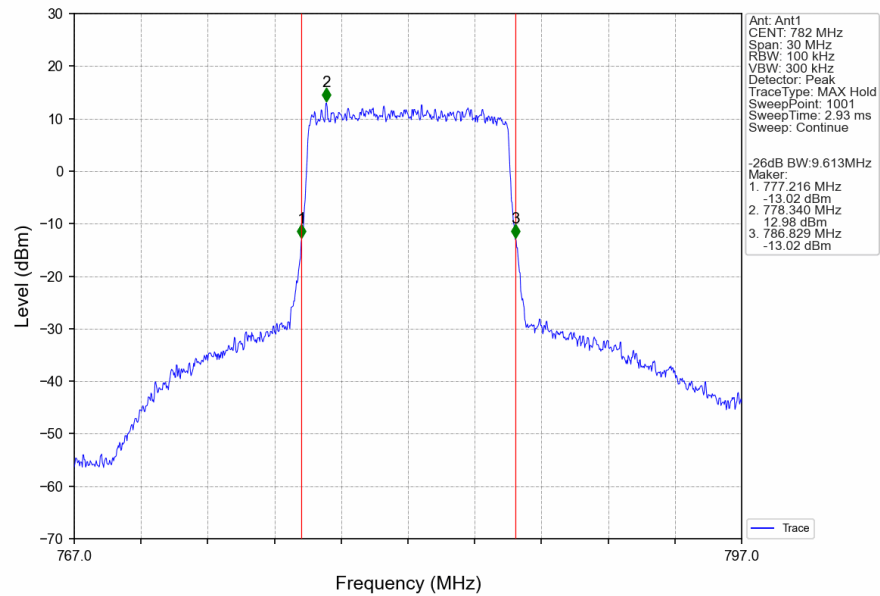
3.2.2 Band13_XDB



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



4. Peak-Average Ratio

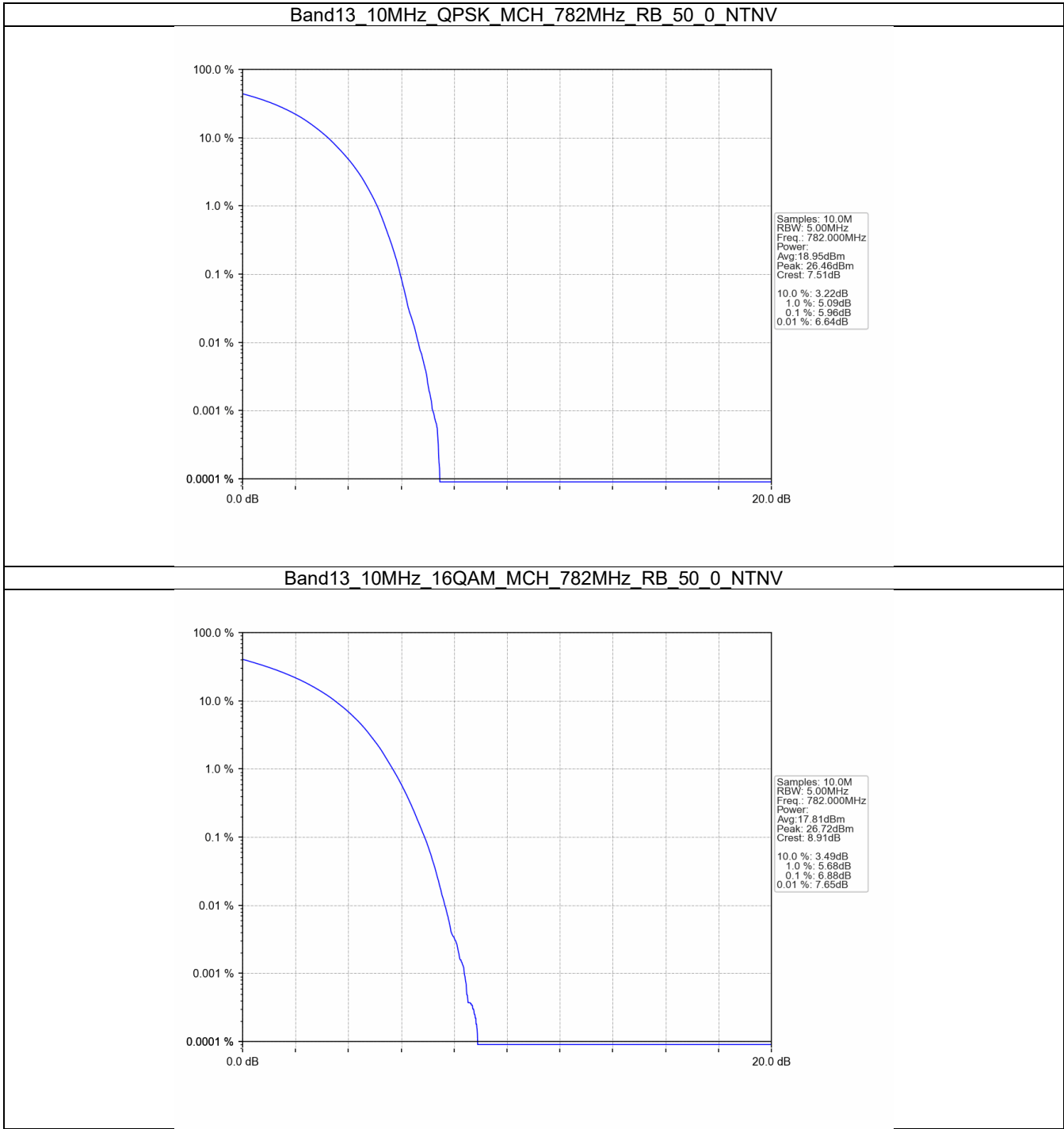
4.1 Test Result

4.1.1 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	5.96	<=13	Pass
16QAM	782	50	0	6.88	<=13	Pass

4.2 Test Graph

4.2.1 B13_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

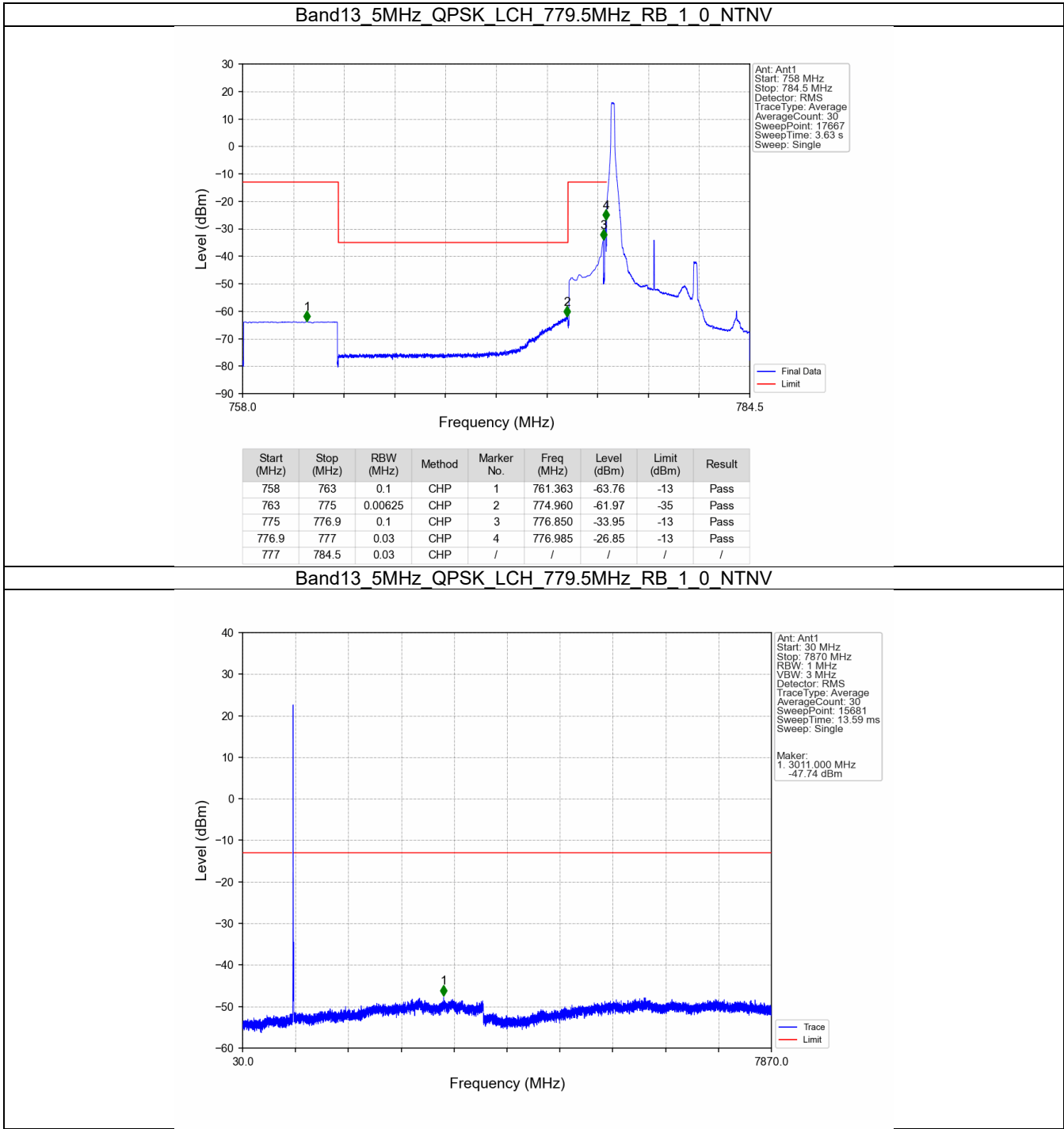
Band: 13 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B13_10MHz

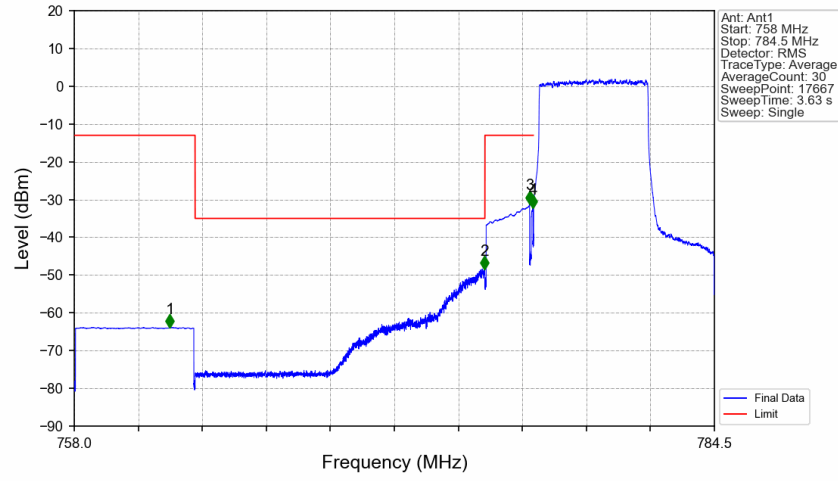
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B13_5MHz

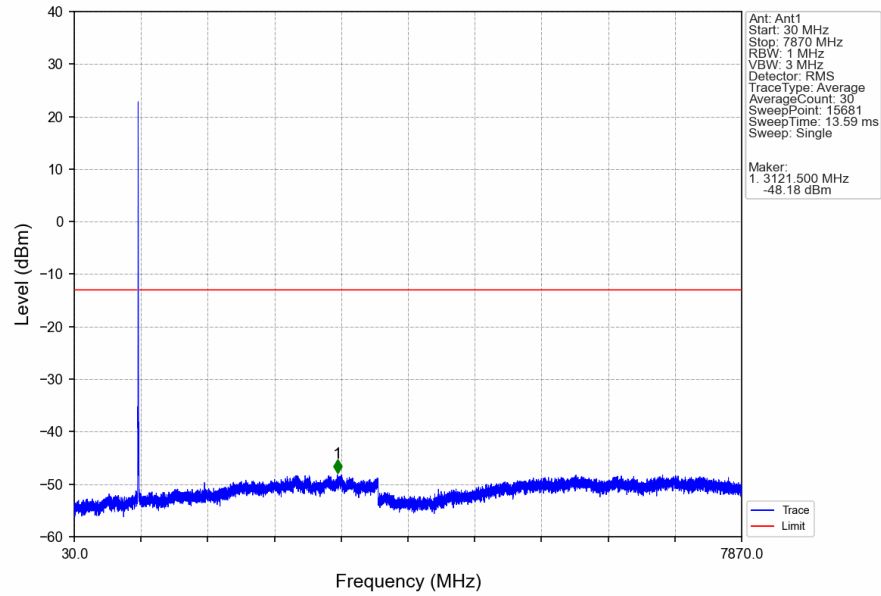


Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTNV

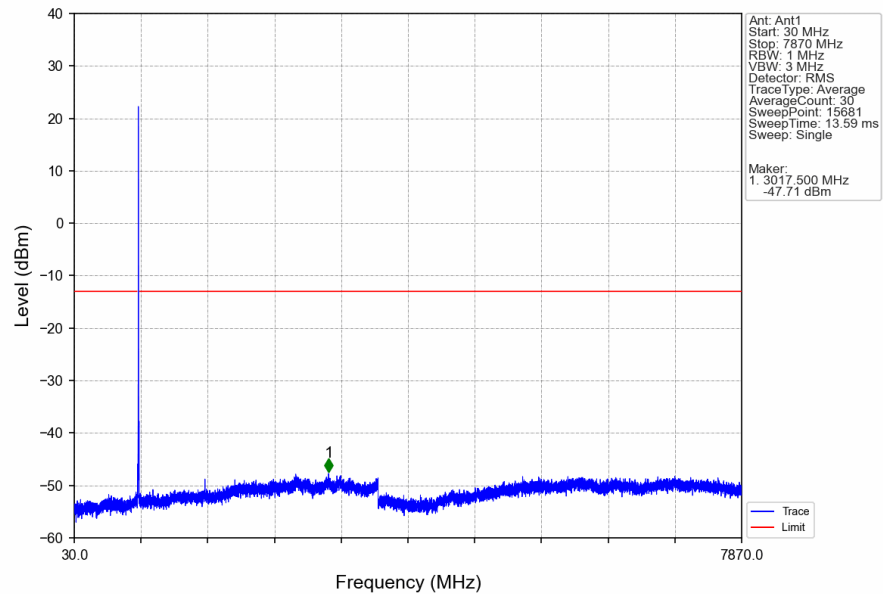


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.962	-63.86	-13	Pass
763	775	0.00625	CHP	2	774.978	-48.38	-35	Pass
775	776.9	0.1	CHP	3	776.850	-31.13	-13	Pass
776.9	777	0.03	CHP	4	776.985	-32.22	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

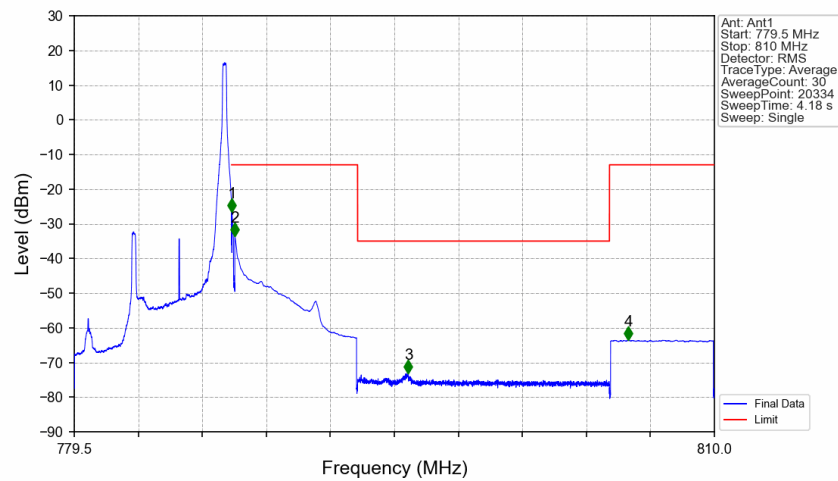
Band13 5MHz QPSK MCH 782MHz RB 1 0 NTNV



Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN

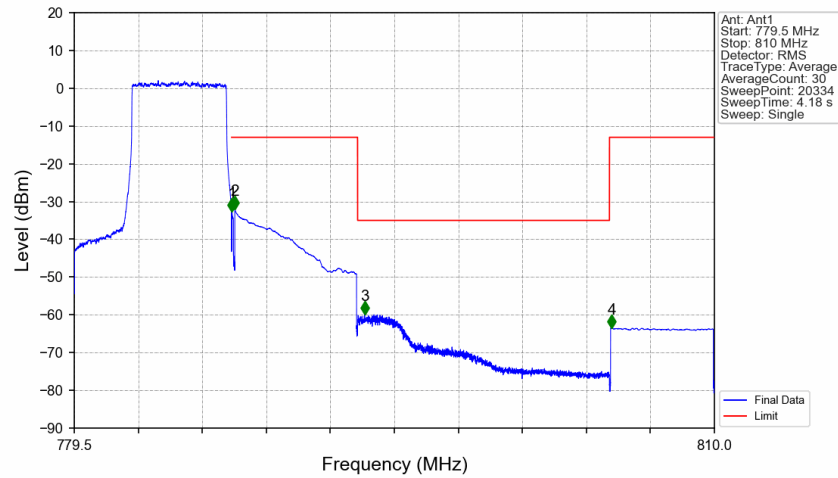


Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTN



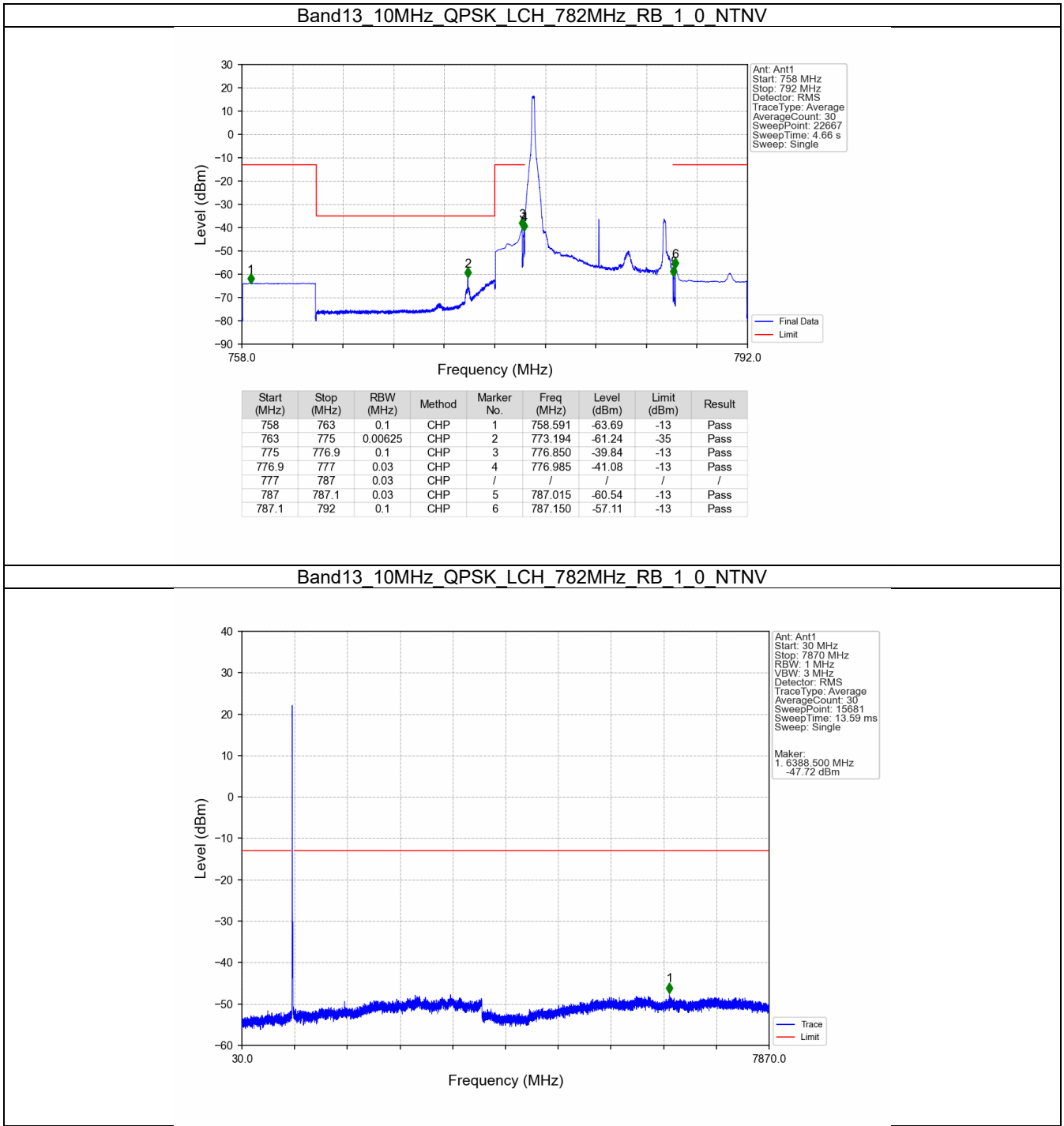
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.015	-26.53	-13	Pass
787.1	793	0.1	CHP	2	787.150	-33.47	-13	Pass
793	805	0.00625	CHP	3	795.417	-73.02	-35	Pass
805	810	0.1	CHP	4	805.905	-63.49	-13	Pass

Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTN

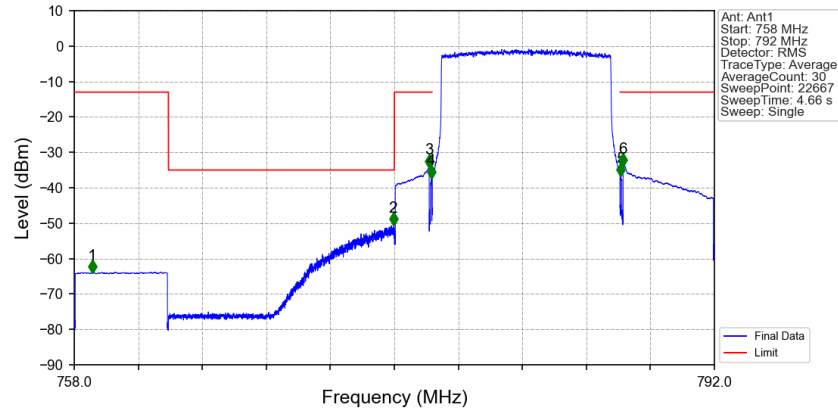


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.015	-32.65	-13	Pass
787.1	793	0.1	CHP	2	787.150	-32.03	-13	Pass
793	805	0.00625	CHP	3	793.333	-59.88	-35	Pass
805	810	0.1	CHP	4	805.111	-63.48	-13	Pass

5.2.2 B13_10MHz

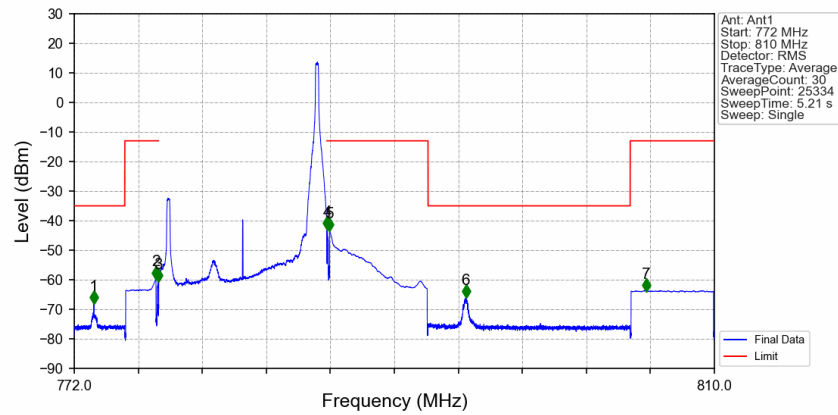


Band13 10MHz QPSK LCH 782MHz RB 50 0 NTNV



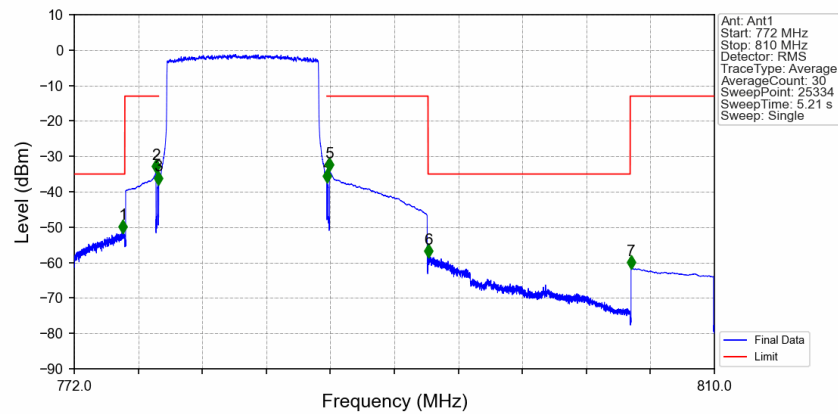
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.962	-63.78	-13	Pass
763	775	0.00625	CHP	2	774.941	-50.31	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.00	-13	Pass
776.9	777	0.03	CHP	4	776.968	-37.02	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.021	-36.49	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.65	-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	773.166	-67.89	-35	Pass
775	776.9	0.1	CHP	2	776.850	-59.49	-13	Pass
776.9	777	0.03	CHP	3	776.985	-60.48	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.015	-42.70	-13	Pass
787.1	793	0.1	CHP	5	787.150	-43.18	-13	Pass
793	805	0.00625	CHP	6	795.246	-65.85	-35	Pass
805	810	0.1	CHP	7	805.945	-63.71	-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	774.895	-51.35	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.33	-13	Pass
776.9	777	0.03	CHP	3	776.979	-37.65	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.020	-37.19	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.98	-13	Pass
793	805	0.00625	CHP	6	793.020	-58.21	-35	Pass
805	810	0.1	CHP	7	805.051	-61.43	-13	Pass

---End of Attachment---