

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	23.99	3.17	25.01	<=34.77	Pass
			13	23.57	3.17	24.59	<=34.77	Pass
			24	23.52	3.17	24.54	<=34.77	Pass
		12	0	23.08	3.17	24.10	<=34.77	Pass
			6	22.87	3.17	23.89	<=34.77	Pass
			13	22.67	3.17	23.69	<=34.77	Pass
		25	0	22.90	3.17	23.92	<=34.77	Pass
			0	23.67	3.17	24.69	<=34.77	Pass
			13	23.23	3.17	24.25	<=34.77	Pass
	782	1	13	23.94	3.17	24.96	<=34.77	Pass
			0	22.63	3.17	23.65	<=34.77	Pass
			6	22.68	3.17	23.70	<=34.77	Pass
		12	13	22.83	3.17	23.85	<=34.77	Pass
			0	22.75	3.17	23.77	<=34.77	Pass
			0	23.87	3.17	24.89	<=34.77	Pass
		1	13	24.04	3.17	25.06	<=34.77	Pass
			24	23.63	3.17	24.65	<=34.77	Pass
			0	23.04	3.17	24.06	<=34.77	Pass
16QAM	779.5	1	6	23.06	3.17	24.08	<=34.77	Pass
			13	22.96	3.17	23.98	<=34.77	Pass
			0	23.03	3.17	24.05	<=34.77	Pass
		12	0	22.76	3.17	23.78	<=34.77	Pass
			13	22.90	3.17	23.92	<=34.77	Pass
			24	22.79	3.17	23.81	<=34.77	Pass
		25	0	22.06	3.17	23.08	<=34.77	Pass
			6	21.92	3.17	22.94	<=34.77	Pass
			13	21.49	3.17	22.51	<=34.77	Pass
	782	1	0	21.95	3.17	22.97	<=34.77	Pass
			0	22.73	3.17	23.75	<=34.77	Pass
			13	22.75	3.17	23.77	<=34.77	Pass
		12	24	23.14	3.17	24.16	<=34.77	Pass
			0	21.75	3.17	22.77	<=34.77	Pass
			6	21.82	3.17	22.84	<=34.77	Pass
		25	13	21.94	3.17	22.96	<=34.77	Pass
			0	21.88	3.17	22.90	<=34.77	Pass
			0	22.78	3.17	23.80	<=34.77	Pass
	784.5	1	13	23.09	3.17	24.11	<=34.77	Pass
			24	22.77	3.17	23.79	<=34.77	Pass
			0	22.04	3.17	23.06	<=34.77	Pass
		12	6	22.08	3.17	23.10	<=34.77	Pass
			13	21.99	3.17	23.01	<=34.77	Pass
			0	22.04	3.17	23.06	<=34.77	Pass
		25	0	22.04	3.17	23.06	<=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	23.96	3.17	24.98	<=34.77	Pass
			25	24.00	3.17	25.02	<=34.77	Pass
			49	23.93	3.17	24.95	<=34.77	Pass
		25	0	23.08	3.17	24.10	<=34.77	Pass
			13	23.00	3.17	24.02	<=34.77	Pass
			25	23.07	3.17	24.09	<=34.77	Pass
		50	0	23.06	3.17	24.08	<=34.77	Pass
16QAM	782	1	0	23.07	3.17	24.09	<=34.77	Pass
			25	23.01	3.17	24.03	<=34.77	Pass
			49	23.15	3.17	24.17	<=34.77	Pass
		12	0	23.18	3.17	24.20	<=34.77	Pass
			19	22.88	3.17	23.90	<=34.77	Pass
			38	22.98	3.17	24.00	<=34.77	Pass
		27	0	22.04	3.17	23.06	<=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	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	LV	4.500	0.0058	-2.5 to 2.5	Pass
					NV	0.800	0.0010	-2.5 to 2.5	Pass
					HV	-0.700	-0.0009	-2.5 to 2.5	Pass
				-30	NV	-0.300	-0.0004	-2.5 to 2.5	Pass
				-20	NV	1.100	0.0014	-2.5 to 2.5	Pass
				-10	NV	-0.400	-0.0005	-2.5 to 2.5	Pass
				0	NV	1.700	0.0022	-2.5 to 2.5	Pass
				10	NV	2.100	0.0027	-2.5 to 2.5	Pass
				30	NV	-0.800	-0.0010	-2.5 to 2.5	Pass
				40	NV	-1.700	-0.0022	-2.5 to 2.5	Pass
				50	NV	2.400	0.0031	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

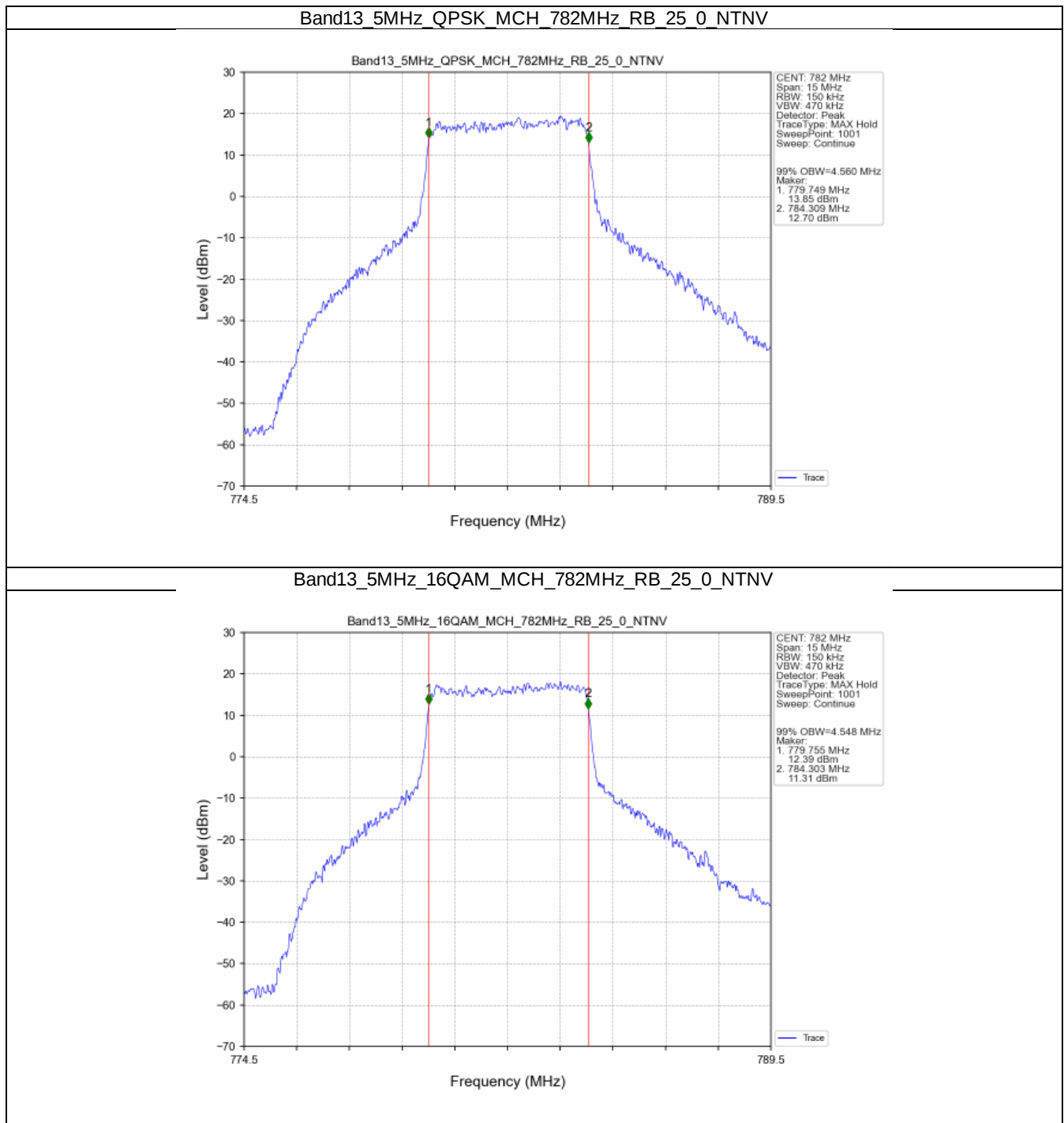
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.560	/	Pass
	16QAM	782	25	0	4.548	/	Pass
10	QPSK	782	50	0	9.085	/	Pass
	16QAM	782	27	0	5.091	/	Pass

3.1.2 Band13_XDB

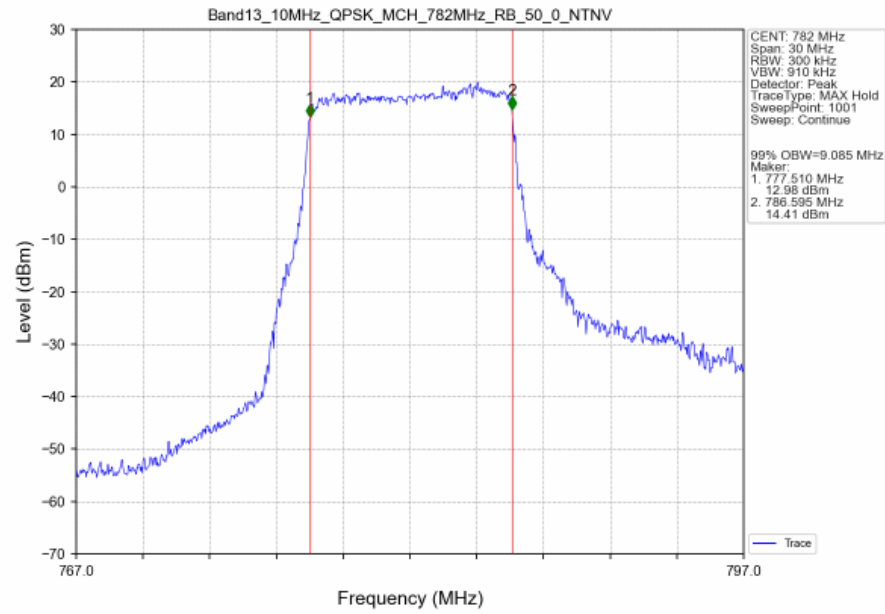
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	5.577	/	Pass
	16QAM	782	25	0	5.415	/	Pass
10	QPSK	782	50	0	10.141	/	Pass
	16QAM	782	27	0	6.537	/	Pass

3.2 Test Graph

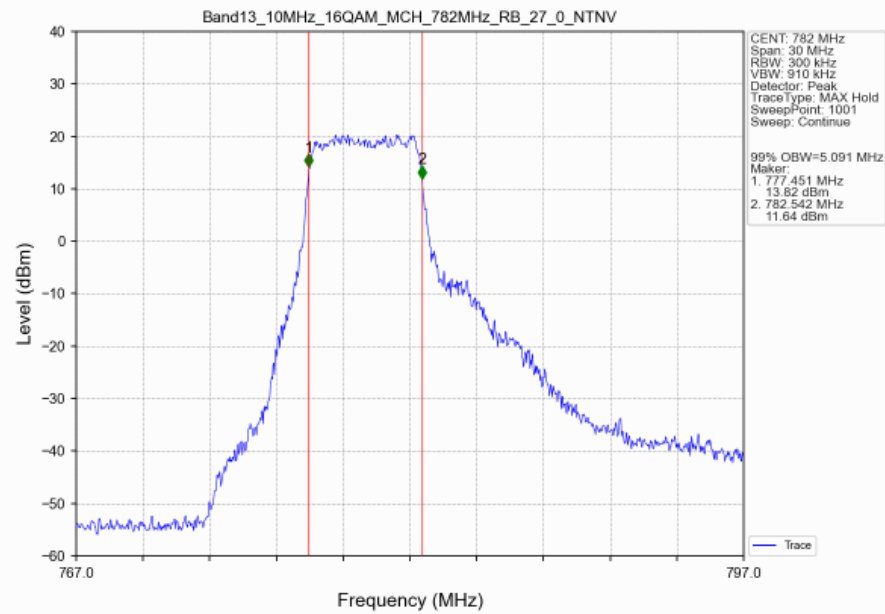
3.2.1 Band13_OBW



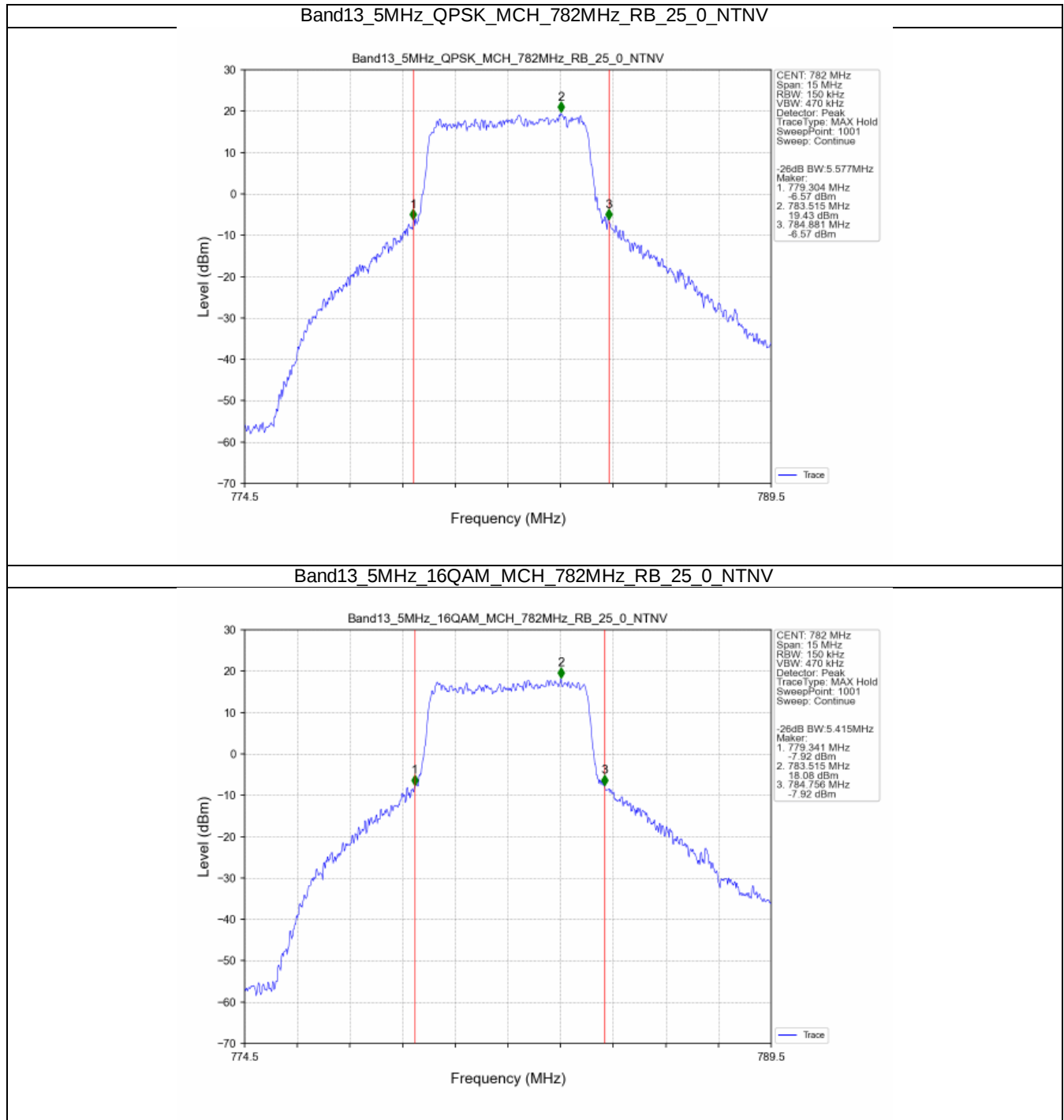
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



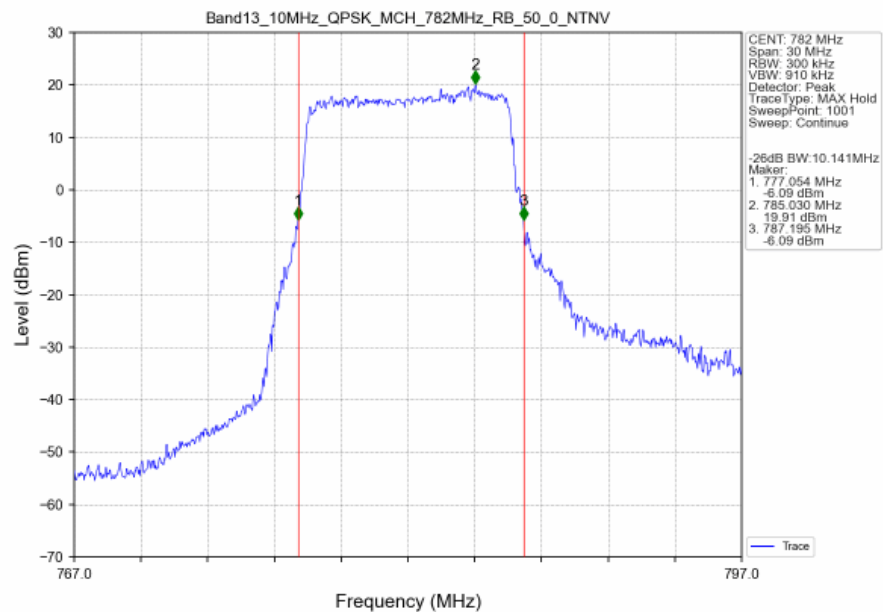
Band13_10MHz_16QAM_MCH_782MHz_RB_27_0_NTNV



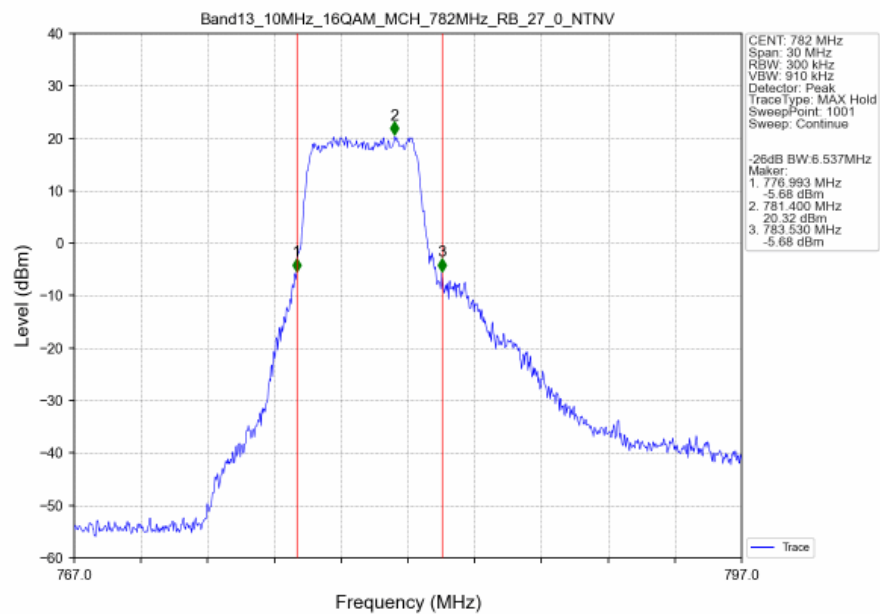
3.2.2 Band13_XDB



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_27_0_NTNV





4. Peak-Average Ratio

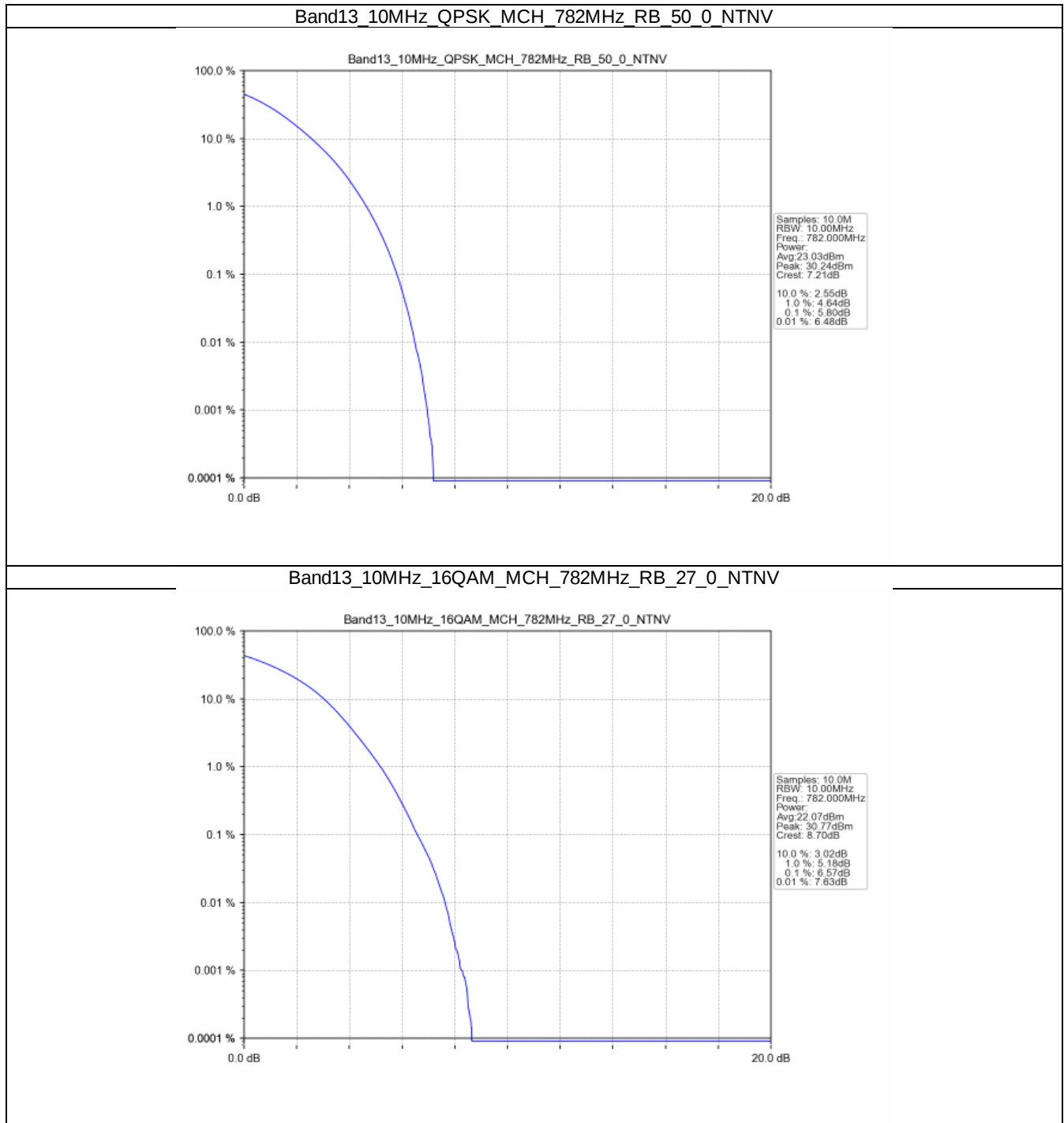
4.1 Test Result

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	5.80	<=13	Pass
16QAM	782	27	0	6.57	<=13	Pass

4.2 Test Graph

4.2.1 B13_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

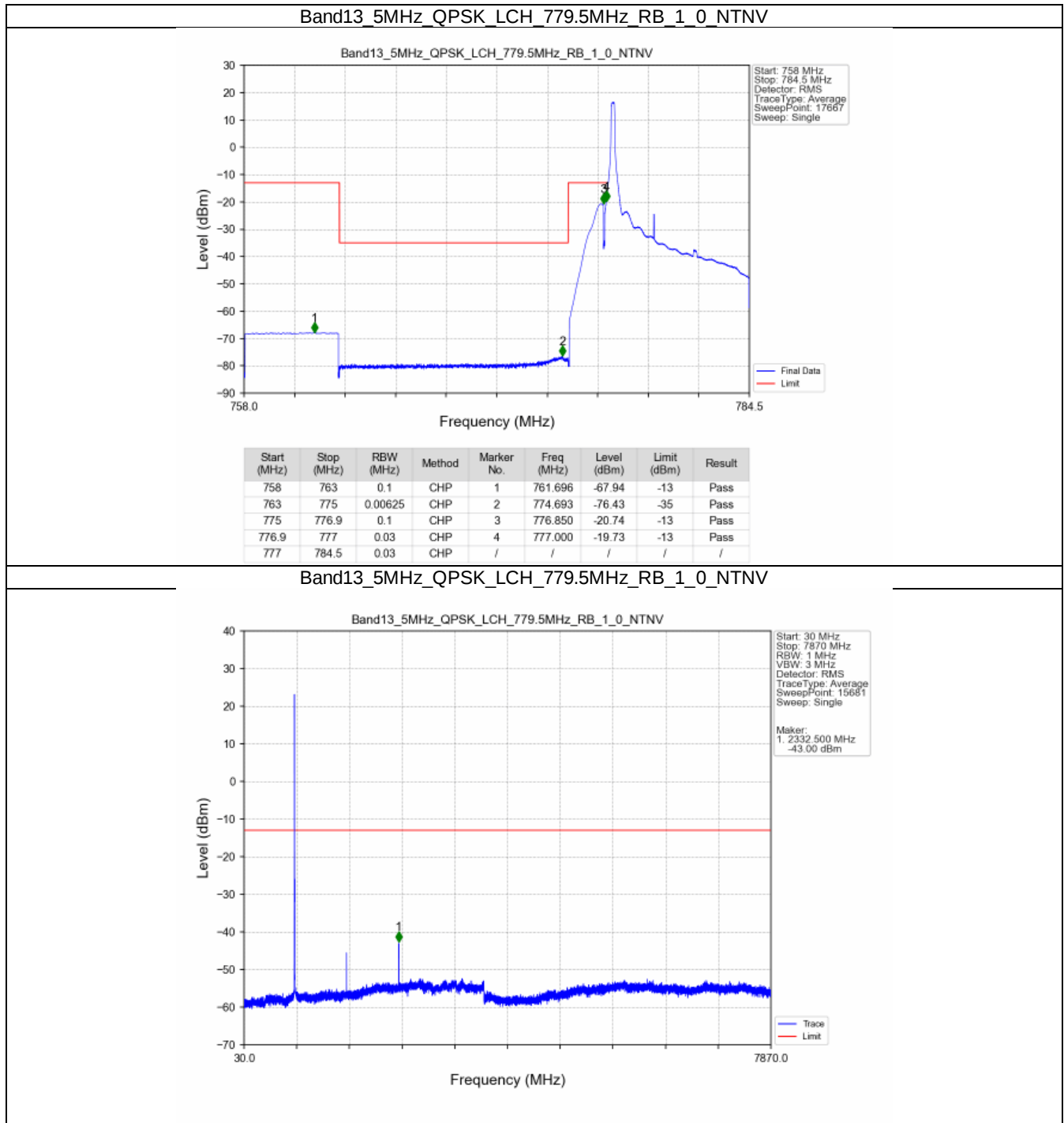
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B13_10MHz

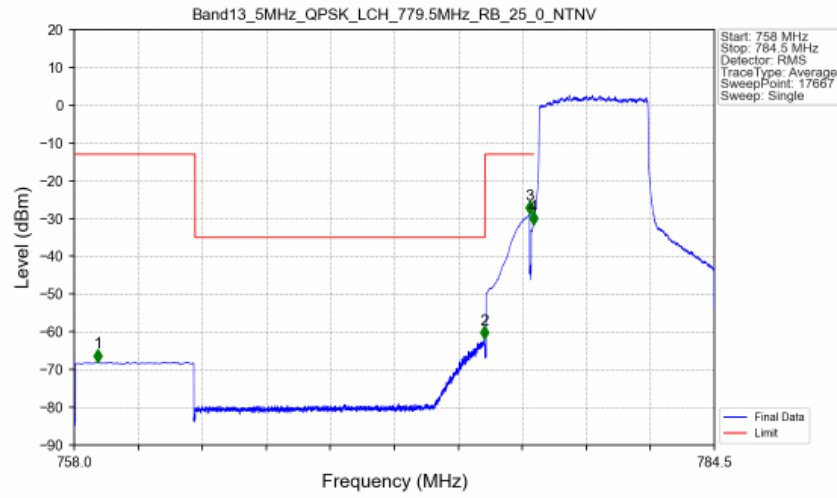
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B13_5MHz

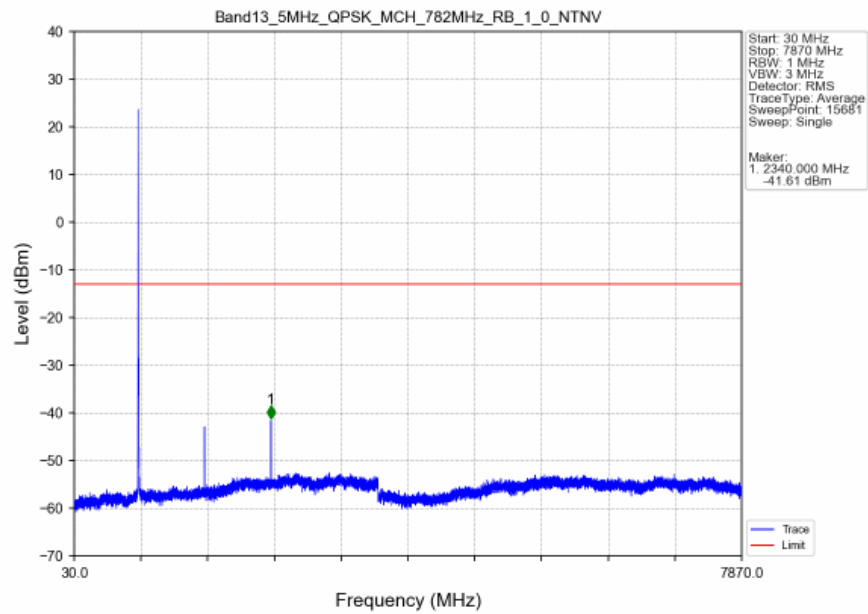


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

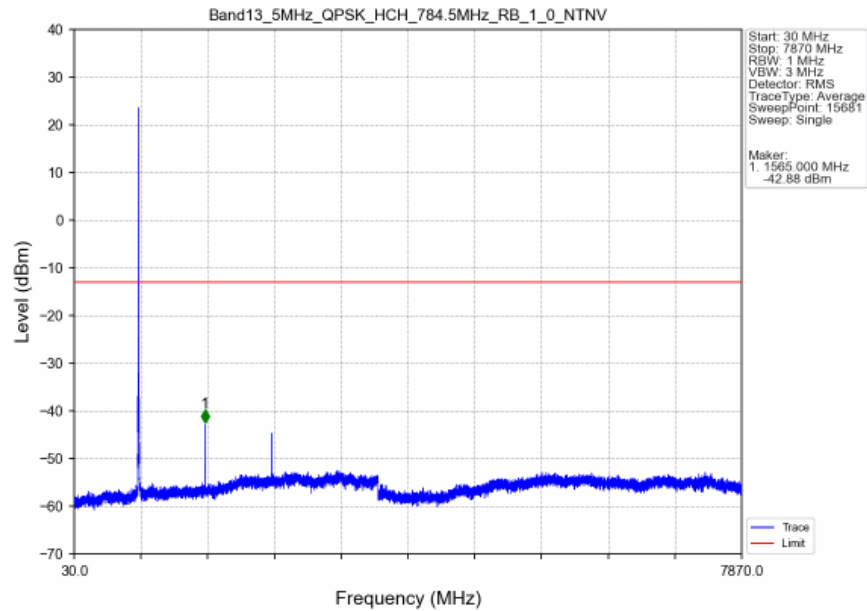


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.974	-68.00	-13	Pass
763	775	0.00625	CHP	2	774.975	-61.90	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.86	-13	Pass
776.9	777	0.03	CHP	4	776.998	-31.55	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

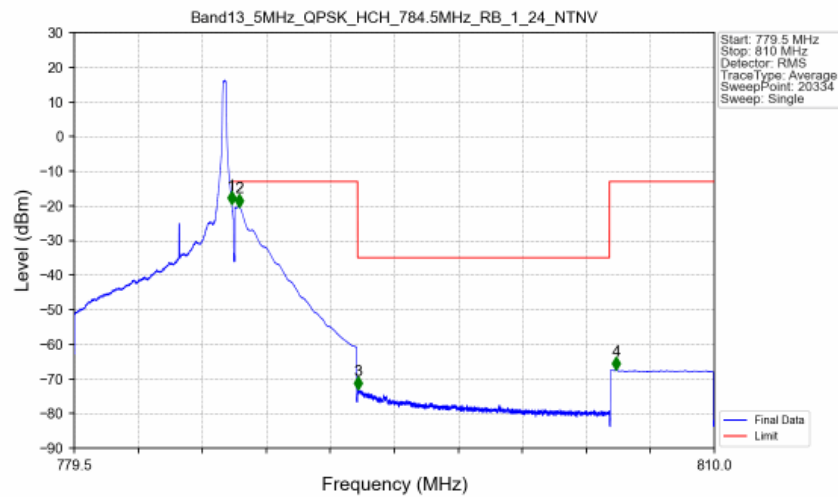
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

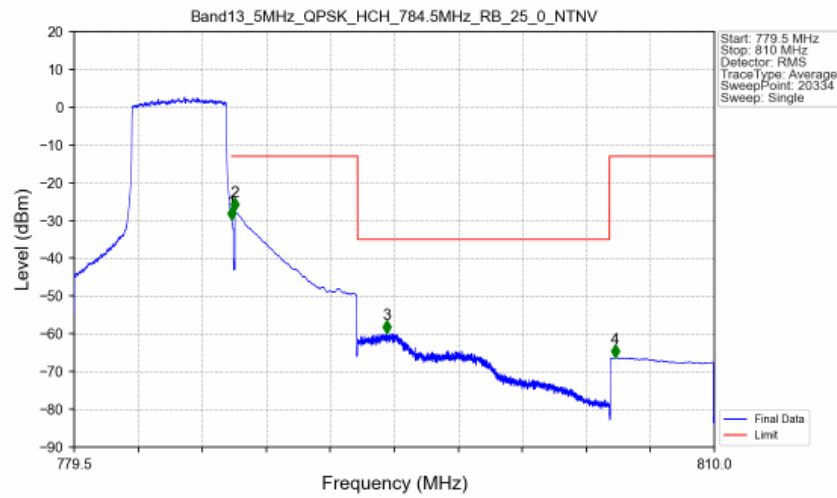


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



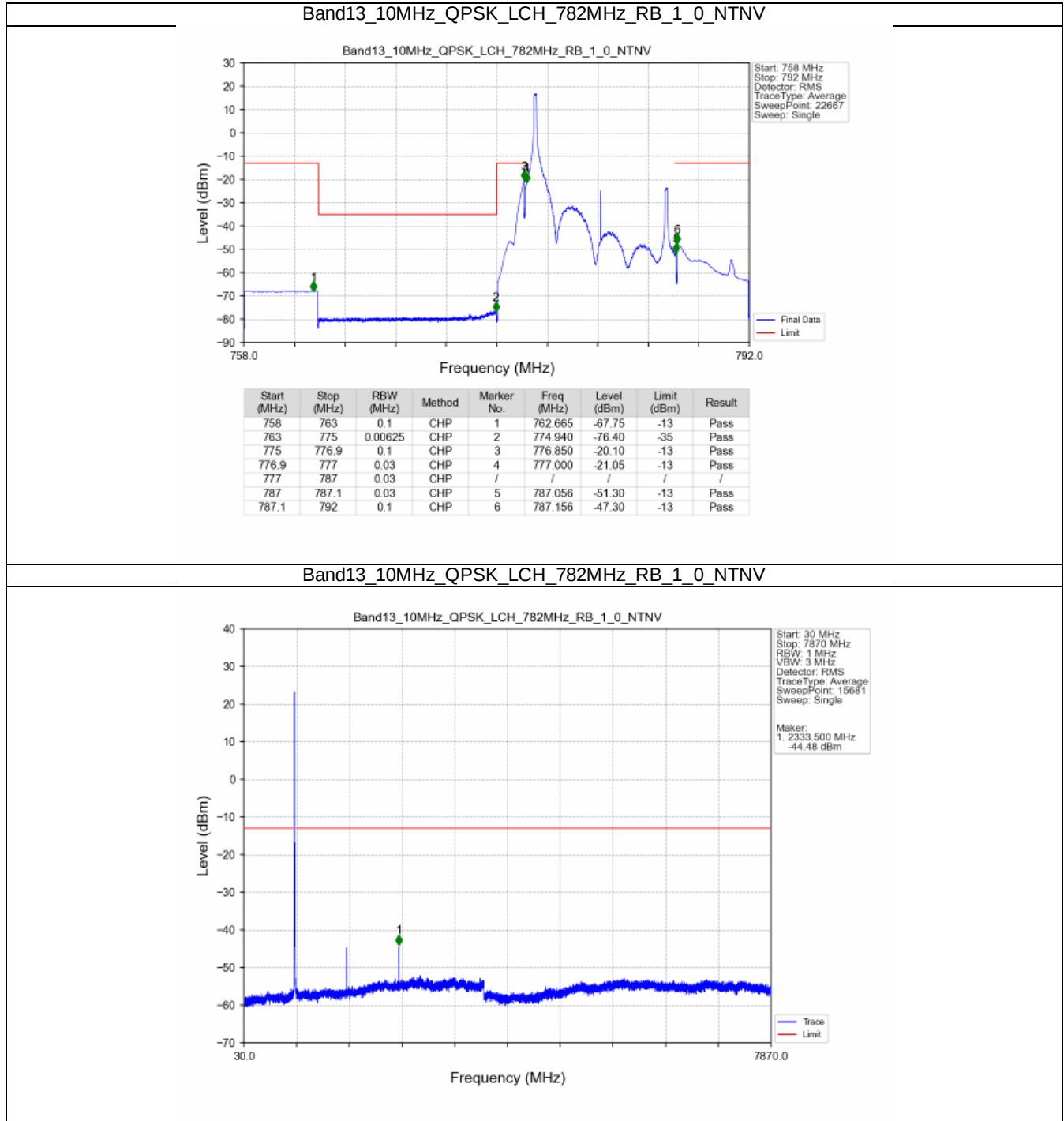
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-19.65	-13	Pass
787.1	793	0.1	CHP	2	787.350	-20.32	-13	Pass
793	805	0.00625	CHP	3	793.005	-73.16	-35	Pass
805	810	0.1	CHP	4	805.329	-67.44	-13	Pass

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV

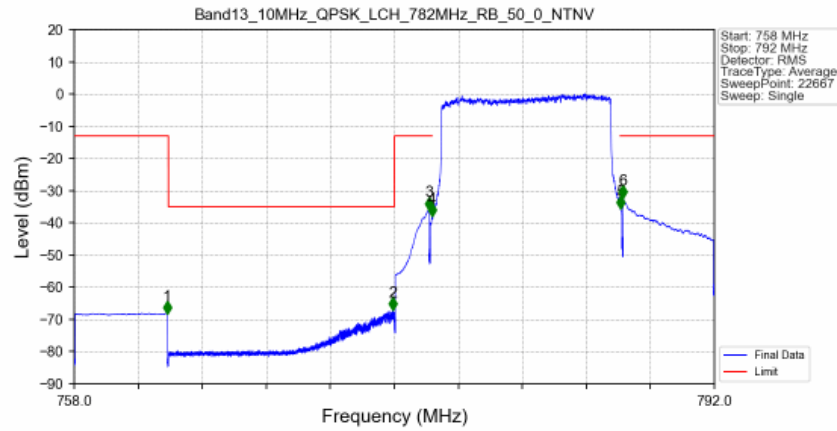


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-29.77	-13	Pass
787.1	793	0.1	CHP	2	787.150	-27.40	-13	Pass
793	805	0.00625	CHP	3	794.389	-59.80	-35	Pass
805	810	0.1	CHP	4	805.278	-66.33	-13	Pass

5.2.2 B13_10MHz

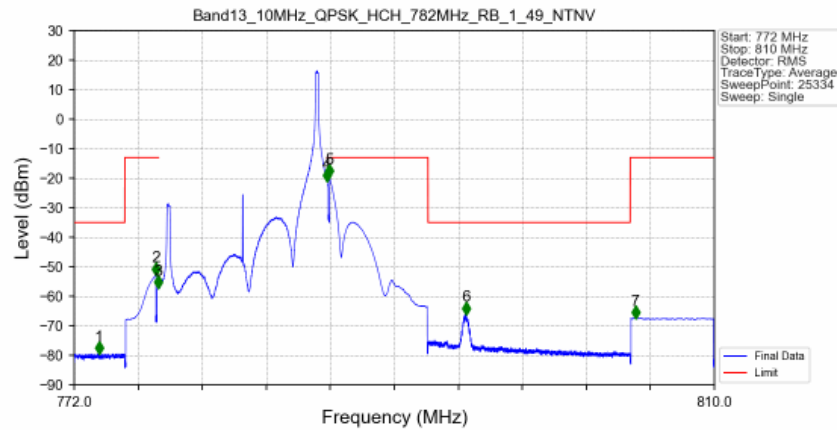


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



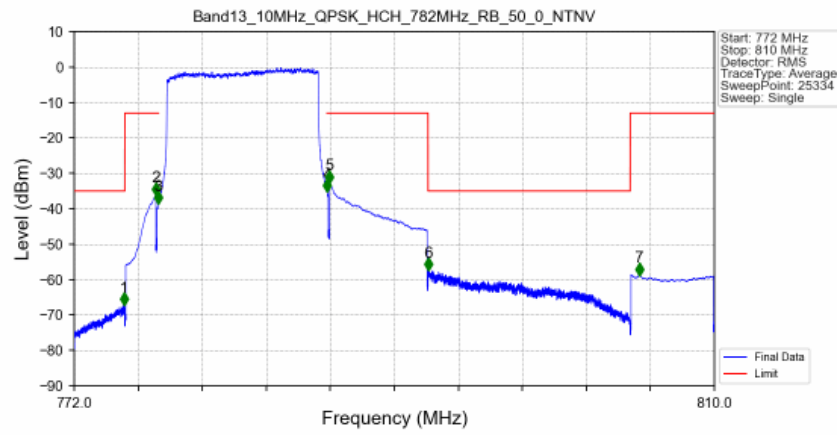
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.938	-67.99	-13	Pass
763	775	0.00625	CHP	2	774.911	-66.85	-35	Pass
775	776.9	0.1	CHP	3	776.850	-35.74	-13	Pass
776.9	777	0.03	CHP	4	777.000	-37.68	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-35.30	-13	Pass
787.1	792	0.1	CHP	6	787.150	-32.15	-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	773.478	-79.29	-35	Pass
775	776.9	0.1	CHP	2	776.850	-52.60	-13	Pass
776.9	777	0.03	CHP	3	776.992	-57.15	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-20.89	-13	Pass
787.1	793	0.1	CHP	5	787.150	-19.45	-13	Pass
793	805	0.00625	CHP	6	795.250	-65.88	-35	Pass
805	810	0.1	CHP	7	805.306	-67.33	-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	774.943	-67.11	-35	Pass
775	776.9	0.1	CHP	2	776.850	-35.96	-13	Pass
776.9	777	0.03	CHP	3	776.992	-38.41	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.014	-35.02	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.51	-13	Pass
793	805	0.00625	CHP	6	793.015	-57.27	-35	Pass
805	810	0.1	CHP	7	805.542	-58.58	-13	Pass

- End of the Appendix -