

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	23.67	1.15	22.67	<=34.77	Pass
			13	23.80	1.15	22.80	<=34.77	Pass
			24	23.58	1.15	22.58	<=34.77	Pass
		12	0	22.63	1.15	21.63	<=34.77	Pass
			6	22.75	1.15	21.75	<=34.77	Pass
			13	22.46	1.15	21.46	<=34.77	Pass
		25	0	22.77	1.15	21.77	<=34.77	Pass
	782	1	0	23.76	1.15	22.76	<=34.77	Pass
			13	23.90	1.15	22.90	<=34.77	Pass
			24	23.61	1.15	22.61	<=34.77	Pass
		12	0	22.68	1.15	21.68	<=34.77	Pass
			6	22.75	1.15	21.75	<=34.77	Pass
			13	22.58	1.15	21.58	<=34.77	Pass
		25	0	22.74	1.15	21.74	<=34.77	Pass
	784.5	1	0	23.55	1.15	22.55	<=34.77	Pass
			13	24.14	1.15	23.14	<=34.77	Pass
			24	23.50	1.15	22.50	<=34.77	Pass
		12	0	22.59	1.15	21.59	<=34.77	Pass
			6	22.76	1.15	21.76	<=34.77	Pass
			13	22.76	1.15	21.76	<=34.77	Pass
		25	0	22.70	1.15	21.70	<=34.77	Pass
16QAM	779.5	1	0	22.08	1.15	21.08	<=34.77	Pass
			13	22.63	1.15	21.63	<=34.77	Pass
			24	22.49	1.15	21.49	<=34.77	Pass
		12	0	21.70	1.15	20.70	<=34.77	Pass
			6	21.72	1.15	20.72	<=34.77	Pass
			13	21.40	1.15	20.40	<=34.77	Pass
		25	0	21.74	1.15	20.74	<=34.77	Pass
	782	1	0	22.37	1.15	21.37	<=34.77	Pass
			13	22.39	1.15	21.39	<=34.77	Pass
			24	22.04	1.15	21.04	<=34.77	Pass
		12	0	21.45	1.15	20.45	<=34.77	Pass
			6	21.53	1.15	20.53	<=34.77	Pass
			13	21.34	1.15	20.34	<=34.77	Pass
		25	0	21.41	1.15	20.41	<=34.77	Pass
	784.5	1	0	22.04	1.15	21.04	<=34.77	Pass
			13	21.92	1.15	20.92	<=34.77	Pass
			24	21.90	1.15	20.90	<=34.77	Pass
		12	0	21.57	1.15	20.57	<=34.77	Pass
			6	21.65	1.15	20.65	<=34.77	Pass
			13	21.68	1.15	20.68	<=34.77	Pass
		25	0	21.47	1.15	20.47	<=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	23.62	1.15	22.62	<=34.77	Pass
			25	23.99	1.15	22.99	<=34.77	Pass
			49	23.69	1.15	22.69	<=34.77	Pass
		25	0	22.76	1.15	21.76	<=34.77	Pass
			13	22.70	1.15	21.70	<=34.77	Pass
			25	22.59	1.15	21.59	<=34.77	Pass
		50	0	22.76	1.15	21.76	<=34.77	Pass
16QAM	782	1	0	22.44	1.15	21.44	<=34.77	Pass
			25	22.69	1.15	21.69	<=34.77	Pass
			49	21.68	1.15	20.68	<=34.77	Pass
		25	0	21.75	1.15	20.75	<=34.77	Pass
			13	21.79	1.15	20.79	<=34.77	Pass
			25	21.68	1.15	20.68	<=34.77	Pass
		50	0	21.75	1.15	20.75	<=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	0.200	0.0003	-2.5 to 2.5	Pass
					NV	2.600	0.0033	-2.5 to 2.5	Pass
					HV	-0.600	-0.0008	-2.5 to 2.5	Pass
				-30	NV	0.700	0.0009	-2.5 to 2.5	Pass
				-20	NV	1.300	0.0017	-2.5 to 2.5	Pass
				-10	NV	1.300	0.0017	-2.5 to 2.5	Pass
				0	NV	1.600	0.0020	-2.5 to 2.5	Pass
				10	NV	-0.500	-0.0006	-2.5 to 2.5	Pass
				30	NV	1.500	0.0019	-2.5 to 2.5	Pass
				40	NV	0.800	0.0010	-2.5 to 2.5	Pass
				50	NV	1.600	0.0020	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

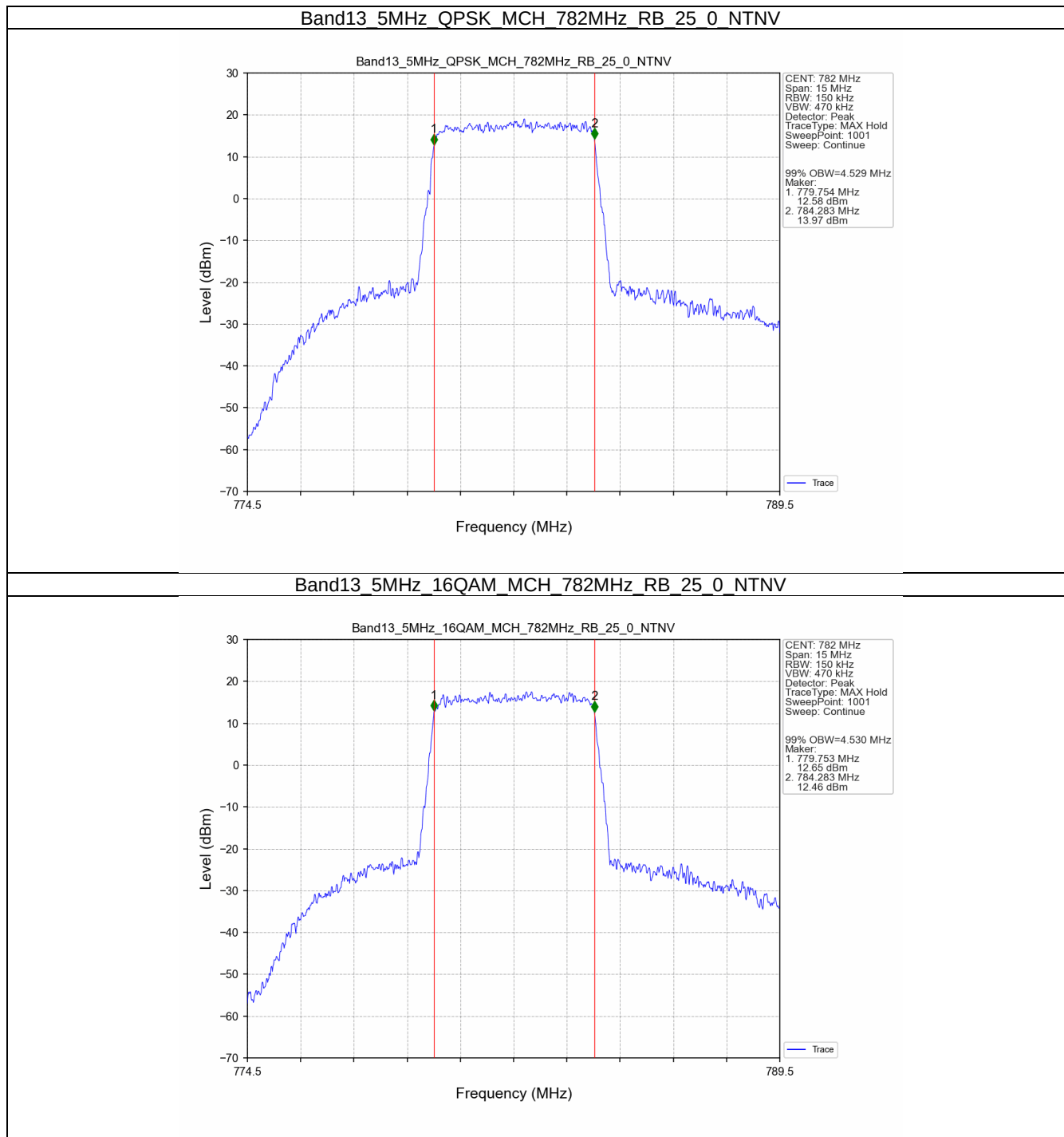
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.529	/	Pass
	16QAM	782	25	0	4.530	/	Pass
10	QPSK	782	50	0	9.039	/	Pass
	16QAM	782	50	0	8.967	/	Pass

3.1.2 Band13_XDB

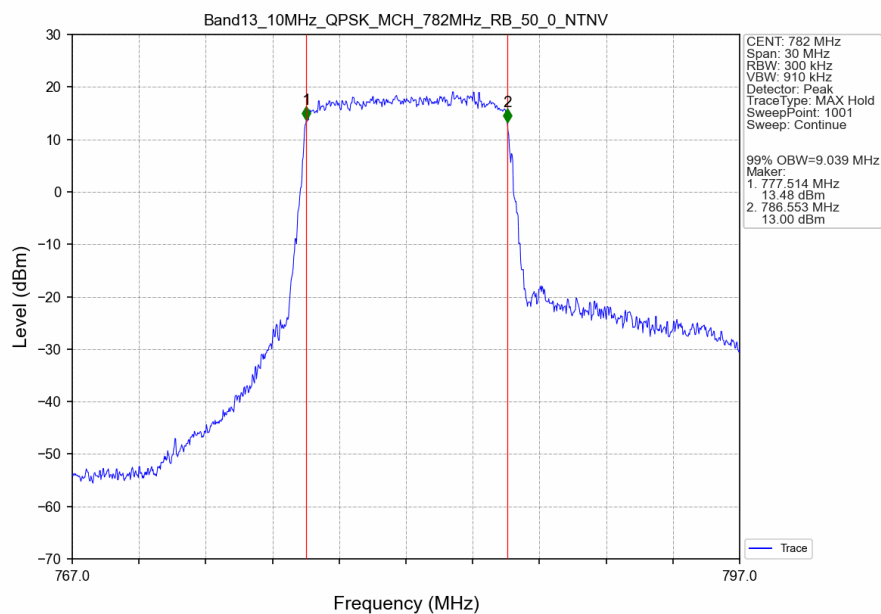
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	5.111	/	Pass
	16QAM	782	25	0	5.032	/	Pass
10	QPSK	782	50	0	9.949	/	Pass
	16QAM	782	50	0	9.849	/	Pass

3.2 Test Graph

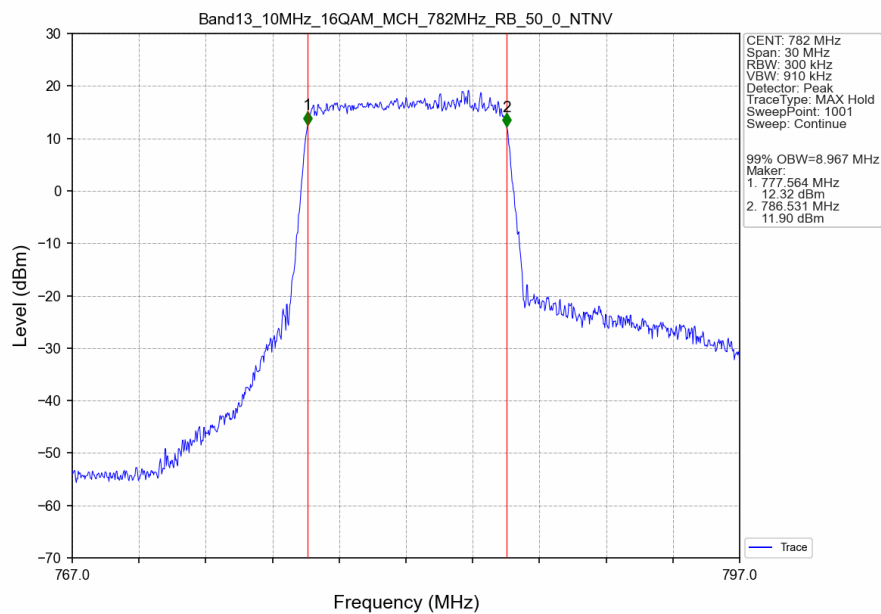
3.2.1 Band13_OBW



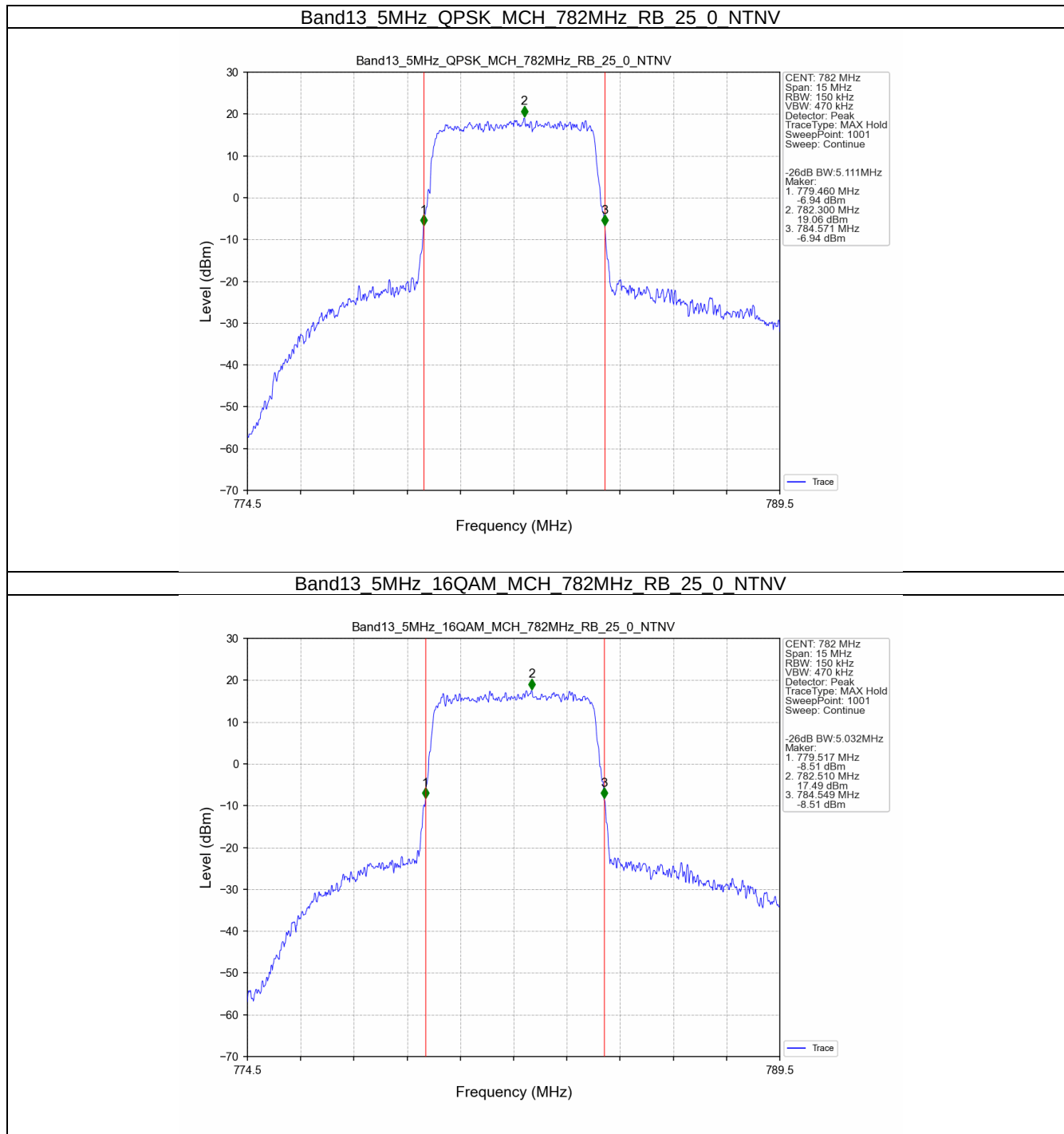
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



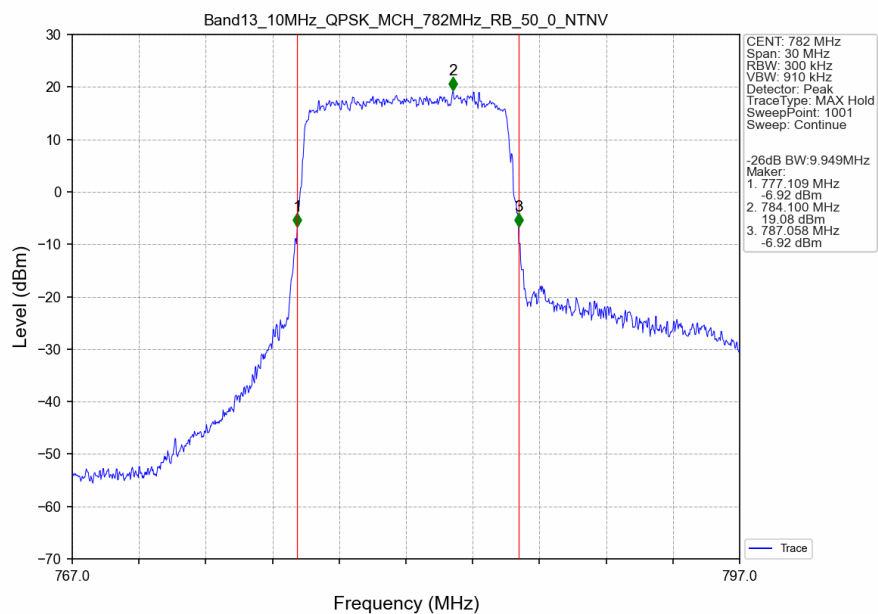
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



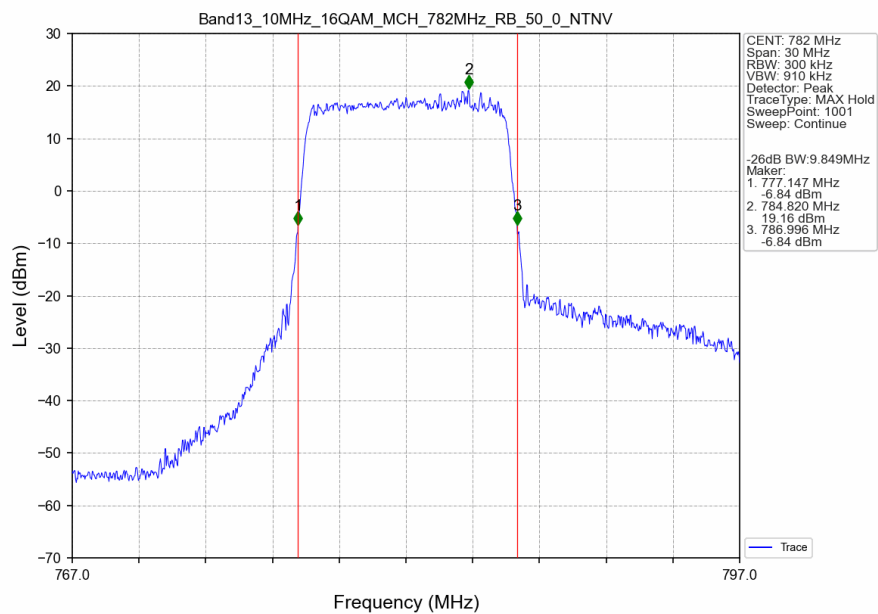
3.2.2 Band13_XDB



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV





4. Peak-Average Ratio

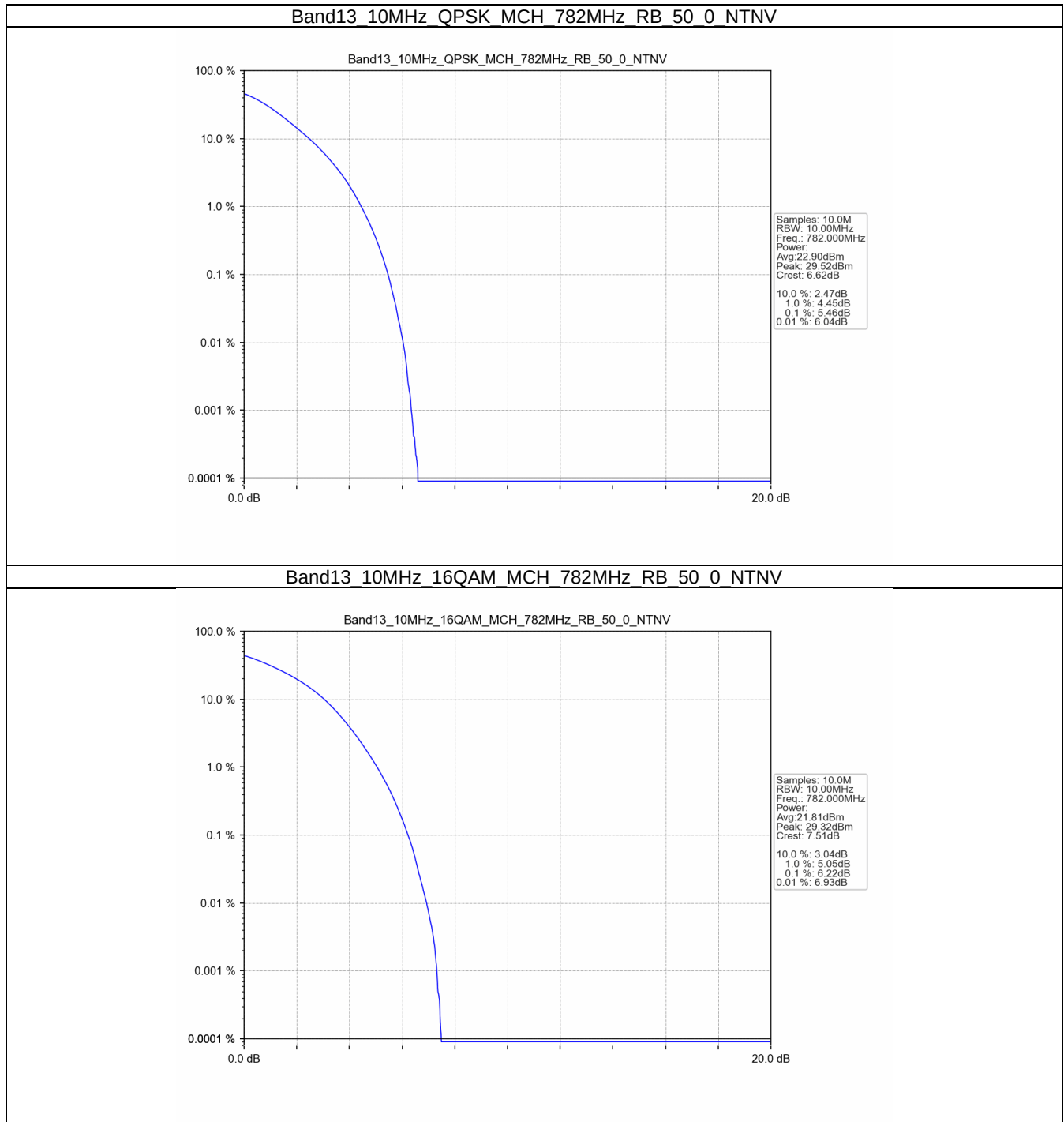
4.1 Test Result

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	5.46	<=13	Pass
16QAM	782	50	0	6.22	<=13	Pass

4.2 Test Graph

4.2.1 B13_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

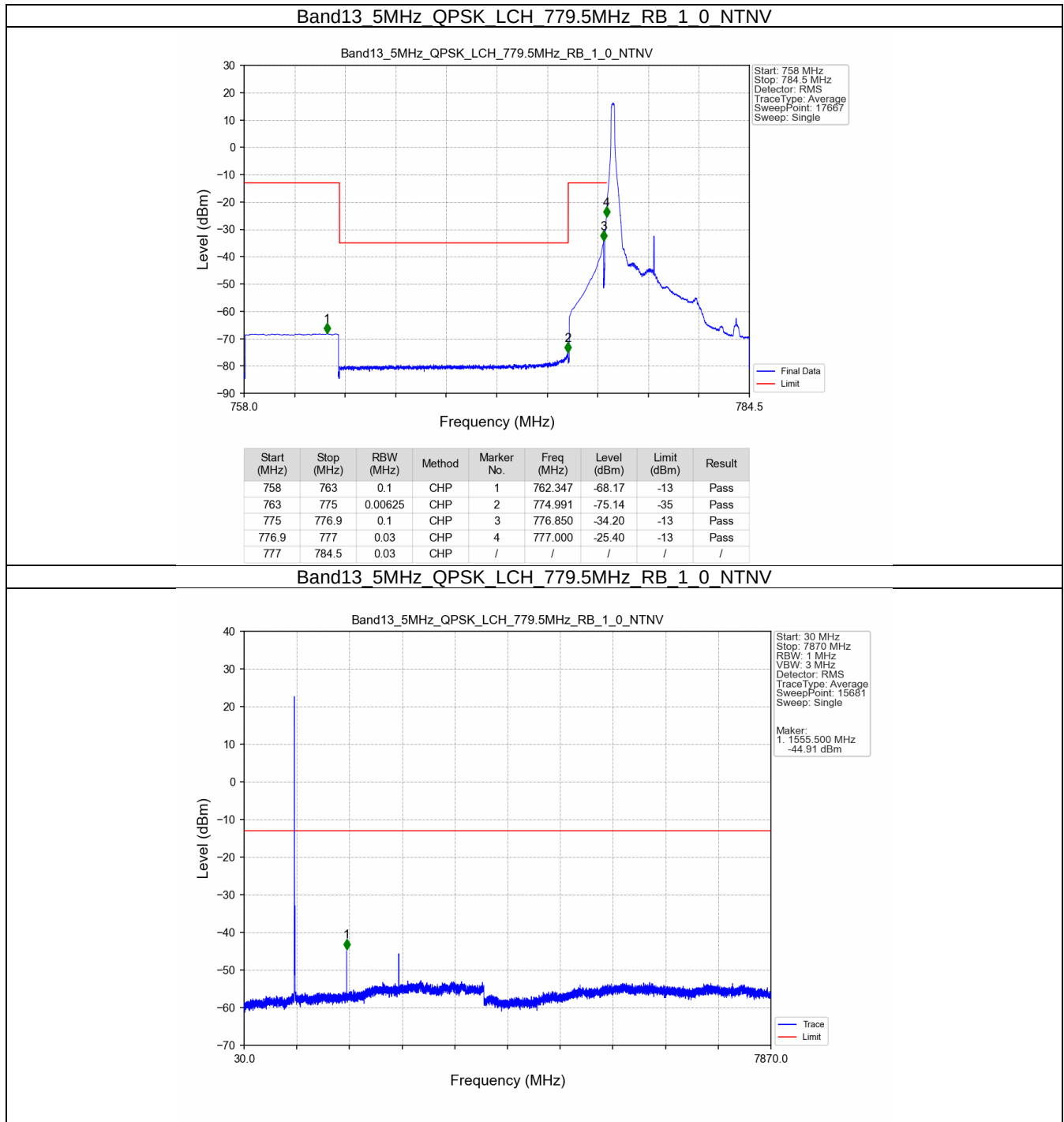
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B13_10MHz

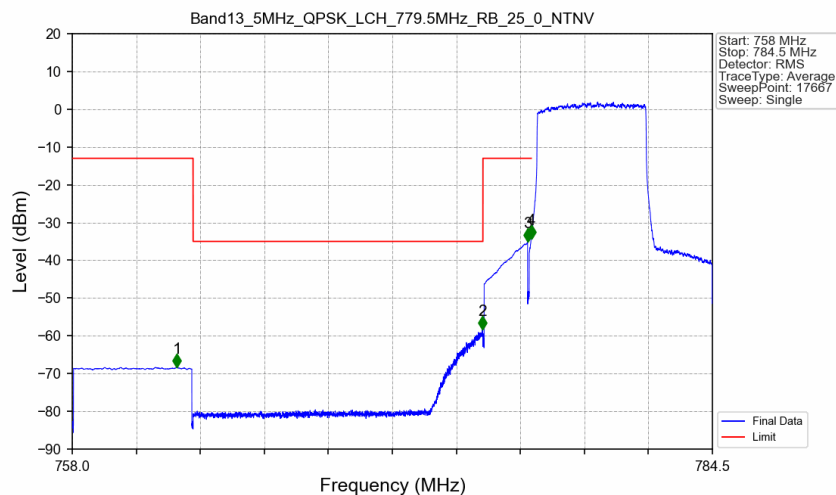
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

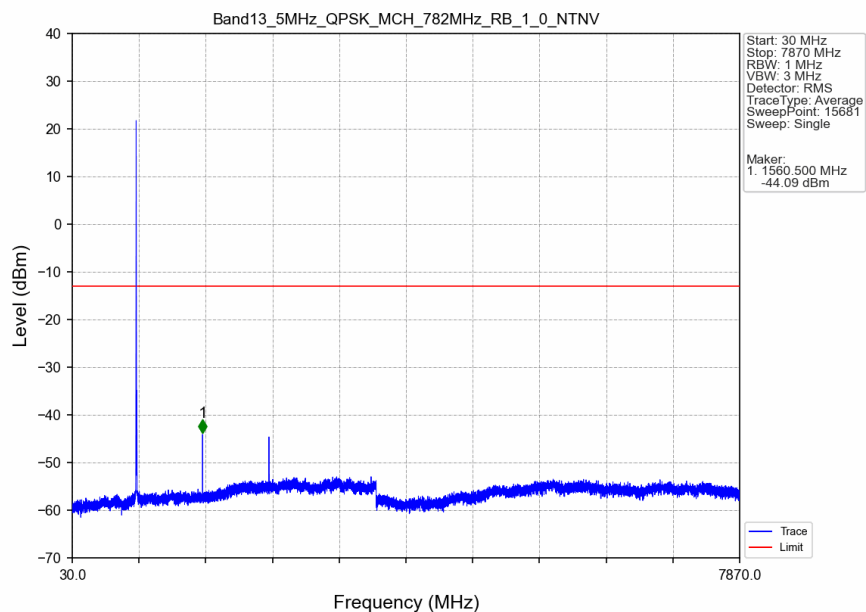
5.2.1 B13_5MHz



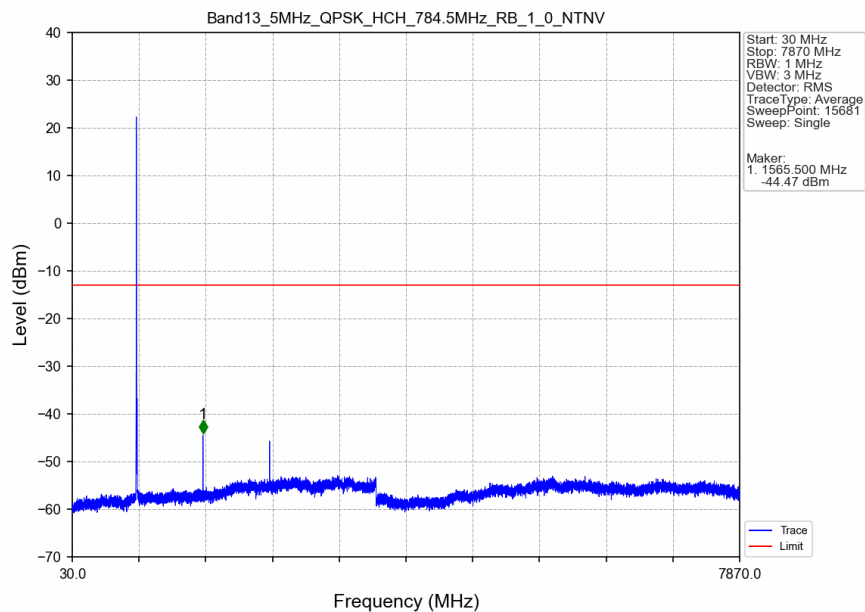
Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



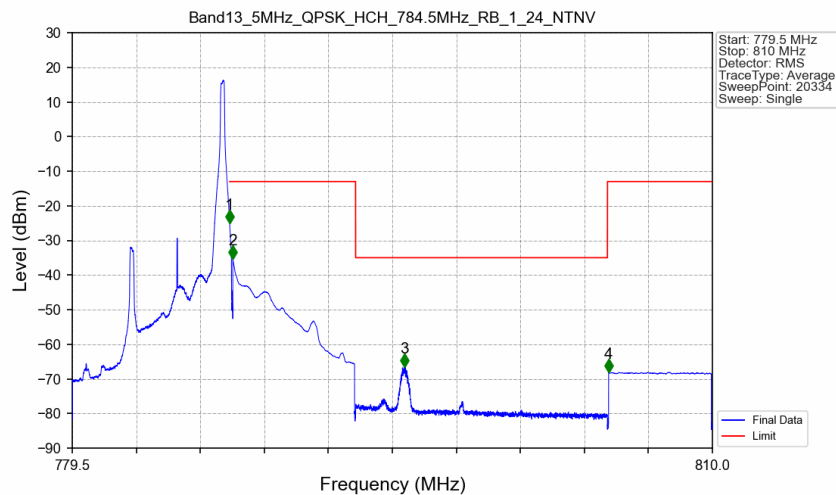
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

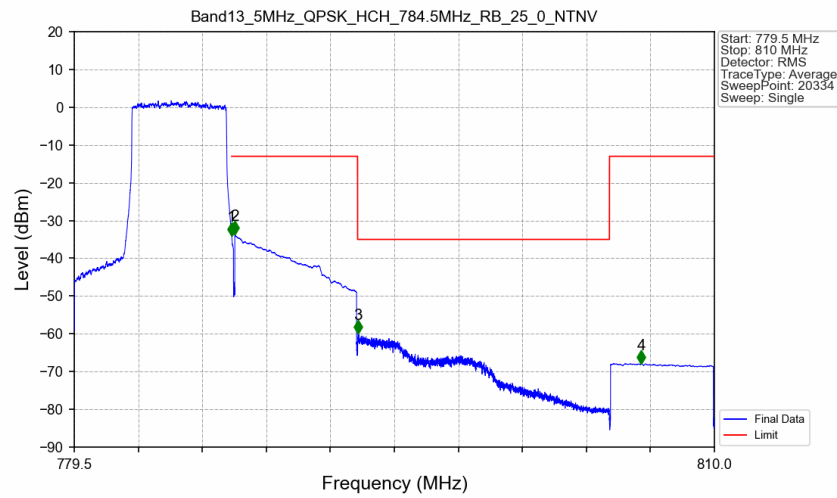


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



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	-25.07	-13	Pass
787.1	793	0.1	CHP	2	787.150	-35.20	-13	Pass
793	805	0.00625	CHP	3	795.337	-66.61	-35	Pass
805	810	0.1	CHP	4	805.056	-68.10	-13	Pass

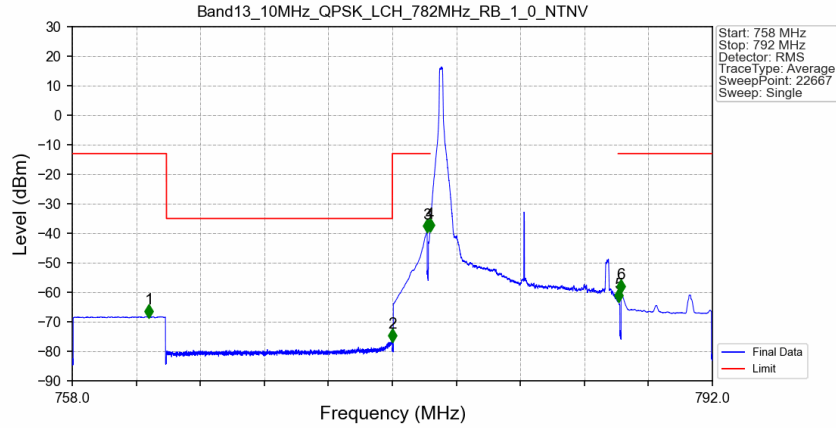
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



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	-33.94	-13	Pass
787.1	793	0.1	CHP	2	787.150	-33.71	-13	Pass
793	805	0.00625	CHP	3	793.026	-59.96	-35	Pass
805	810	0.1	CHP	4	806.511	-67.87	-13	Pass

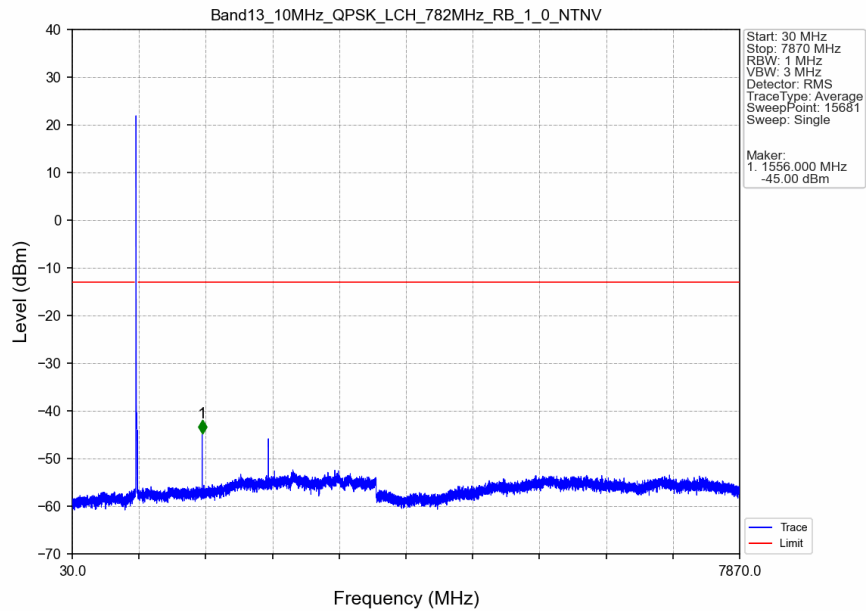
5.2.2 B13_10MHz

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

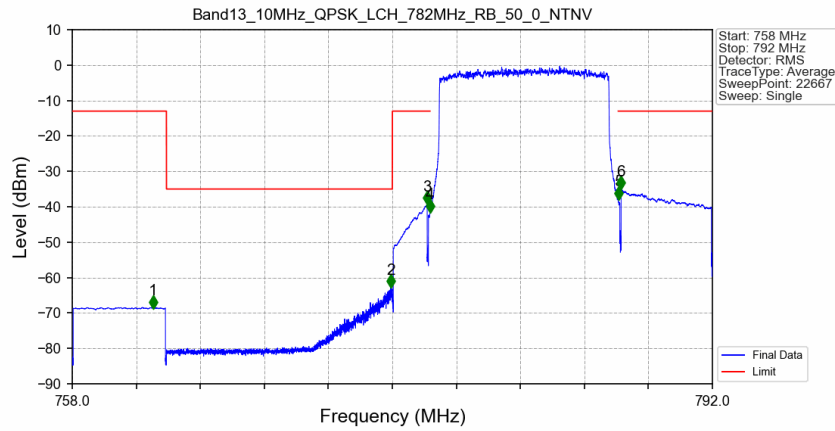


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.070	-68.24	-13	Pass
763	775	0.00625	CHP	2	774.995	-76.41	-35	Pass
775	776.9	0.1	CHP	3	776.847	-39.34	-13	Pass
776.9	777	0.03	CHP	4	777.000	-39.10	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.002	-62.89	-13	Pass
787.1	792	0.1	CHP	6	787.150	-59.78	-13	Pass

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

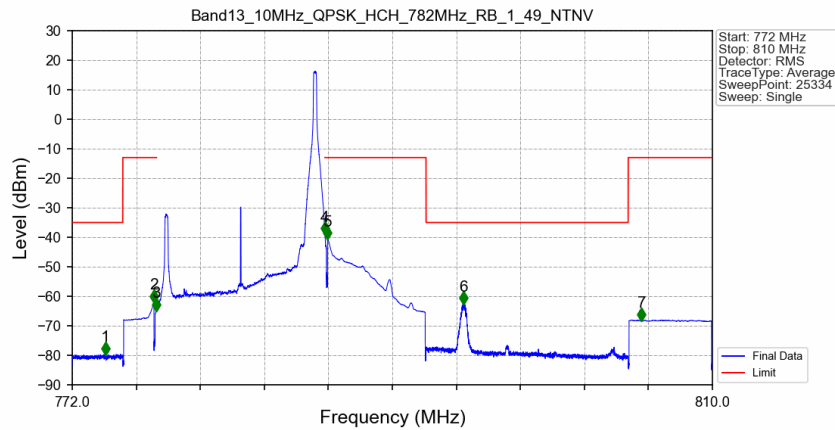


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



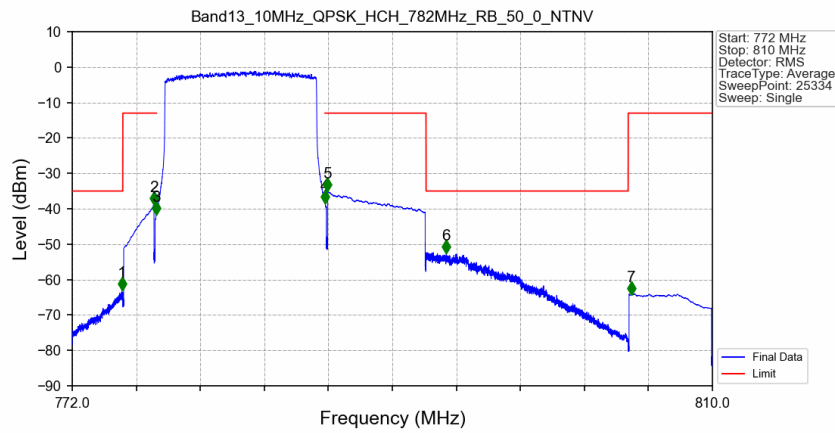
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.287	-68.40	-13	Pass
763	775	0.00625	CHP	2	774.911	-62.61	-35	Pass
775	776.9	0.1	CHP	3	776.850	-39.08	-13	Pass
776.9	777	0.03	CHP	4	777.000	-41.26	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-37.65	-13	Pass
787.1	792	0.1	CHP	6	787.152	-34.83	-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	773.967	-79.53	-35	Pass
775	776.9	0.1	CHP	2	776.850	-61.78	-13	Pass
776.9	777	0.03	CHP	3	776.986	-64.65	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-38.87	-13	Pass
787.1	793	0.1	CHP	5	787.150	-40.41	-13	Pass
793	805	0.00625	CHP	6	795.243	-62.51	-35	Pass
805	810	0.1	CHP	7	805.800	-67.99	-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	-62.81	-35	Pass
775	776.9	0.1	CHP	2	776.850	-38.68	-13	Pass
776.9	777	0.03	CHP	3	777.000	-41.42	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-38.21	-13	Pass
787.1	793	0.1	CHP	5	787.150	-34.71	-13	Pass
793	805	0.00625	CHP	6	794.202	-52.30	-35	Pass
805	810	0.1	CHP	7	805.195	-63.98	-13	Pass