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	22.05	-6.58	13.32	<=34.77	Pass
			13	21.96	-6.58	13.23	<=34.77	Pass
			24	21.99	-6.58	13.26	<=34.77	Pass
		12	0	21.08	-6.58	12.35	<=34.77	Pass
			6	20.98	-6.58	12.25	<=34.77	Pass
			13	20.92	-6.58	12.19	<=34.77	Pass
		25	0	21.03	-6.58	12.30	<=34.77	Pass
	782	1	0	21.98	-6.58	13.25	<=34.77	Pass
			13	22.02	-6.58	13.29	<=34.77	Pass
			24	22.03	-6.58	13.30	<=34.77	Pass
		12	0	20.94	-6.58	12.21	<=34.77	Pass
			6	20.95	-6.58	12.22	<=34.77	Pass
			13	20.91	-6.58	12.18	<=34.77	Pass
		25	0	21.14	-6.58	12.41	<=34.77	Pass
	784.5	1	0	21.81	-6.58	13.08	<=34.77	Pass
			13	21.91	-6.58	13.18	<=34.77	Pass
			24	21.99	-6.58	13.26	<=34.77	Pass
		12	0	21.17	-6.58	12.44	<=34.77	Pass
			6	21.09	-6.58	12.36	<=34.77	Pass
			13	21.17	-6.58	12.44	<=34.77	Pass
		25	0	21.15	-6.58	12.42	<=34.77	Pass
16QAM	779.5	1	0	20.34	-6.58	11.61	<=34.77	Pass
			13	20.33	-6.58	11.60	<=34.77	Pass
			24	20.37	-6.58	11.64	<=34.77	Pass
		12	0	20.05	-6.58	11.32	<=34.77	Pass
			6	20.02	-6.58	11.29	<=34.77	Pass
			13	20.05	-6.58	11.32	<=34.77	Pass
		25	0	20.06	-6.58	11.33	<=34.77	Pass
	782	1	0	21.24	-6.58	12.51	<=34.77	Pass
			13	21.38	-6.58	12.65	<=34.77	Pass
			24	21.34	-6.58	12.61	<=34.77	Pass
		12	0	20.05	-6.58	11.32	<=34.77	Pass
			6	20.13	-6.58	11.40	<=34.77	Pass
			13	20.09	-6.58	11.36	<=34.77	Pass
		25	0	20.10	-6.58	11.37	<=34.77	Pass
	784.5	1	0	20.95	-6.58	12.22	<=34.77	Pass
			13	20.99	-6.58	12.26	<=34.77	Pass
			24	21.08	-6.58	12.35	<=34.77	Pass
		12	0	20.29	-6.58	11.56	<=34.77	Pass
			6	20.20	-6.58	11.47	<=34.77	Pass
			13	20.22	-6.58	11.49	<=34.77	Pass
		25	0	20.22	-6.58	11.49	<=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	21.91	-6.58	13.18	<=34.77	Pass
			25	21.97	-6.58	13.24	<=34.77	Pass
			49	21.95	-6.58	13.22	<=34.77	Pass
		25	0	20.85	-6.58	12.12	<=34.77	Pass
			13	20.90	-6.58	12.17	<=34.77	Pass
			25	20.96	-6.58	12.23	<=34.77	Pass
		50	0	20.89	-6.58	12.16	<=34.77	Pass
16QAM	782	1	0	20.49	-6.58	11.76	<=34.77	Pass
			25	20.60	-6.58	11.87	<=34.77	Pass
			49	20.61	-6.58	11.88	<=34.77	Pass
		25	0	19.97	-6.58	11.24	<=34.77	Pass
			13	20.03	-6.58	11.30	<=34.77	Pass
			25	20.08	-6.58	11.35	<=34.77	Pass
		50	0	20.12	-6.58	11.39	<=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	-17.338	-0.0222	-2.5 to 2.5	Pass
					NV	-35.663	-0.0456	-2.5 to 2.5	Pass
					HV	-40.140	-0.0513	-2.5 to 2.5	Pass
				-30	NV	-30.799	-0.0394	-2.5 to 2.5	Pass
				-20	NV	-9.127	-0.0117	-2.5 to 2.5	Pass
				-10	NV	23.303	0.0298	-2.5 to 2.5	Pass
				0	NV	8.039	0.0103	-2.5 to 2.5	Pass
				10	NV	36.392	0.0465	-2.5 to 2.5	Pass
				30	NV	16.465	0.0211	-2.5 to 2.5	Pass
				40	NV	39.411	0.0504	-2.5 to 2.5	Pass
				50	NV	33.417	0.0427	-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	4.595	/	Pass
	16QAM	782	25	0	4.574	/	Pass
10	QPSK	782	50	0	9.059	/	Pass
	16QAM	782	50	0	9.049	/	Pass

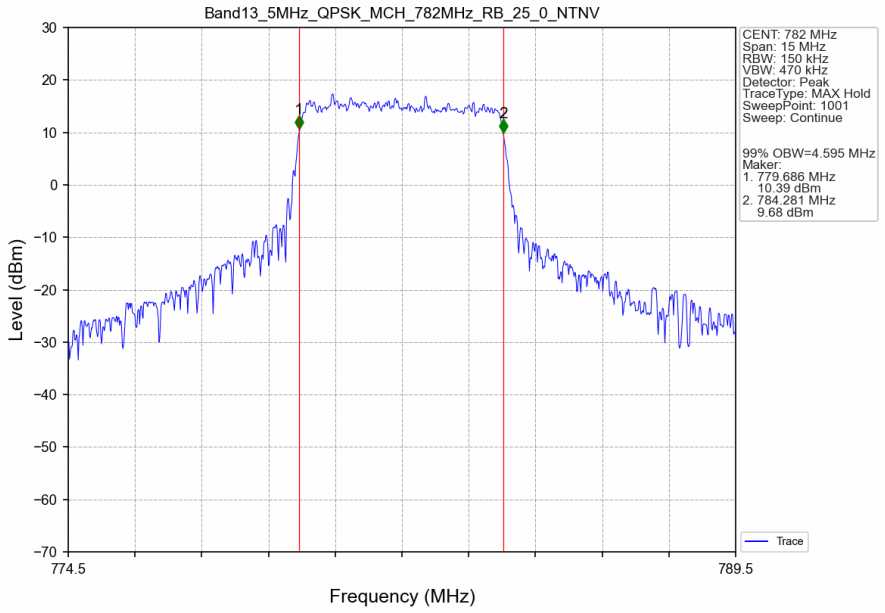
3.1.2 Band13_XDB

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	5.604	/	Pass
	16QAM	782	25	0	5.568	/	Pass
10	QPSK	782	50	0	9.991	/	Pass
	16QAM	782	50	0	10.185	/	Pass

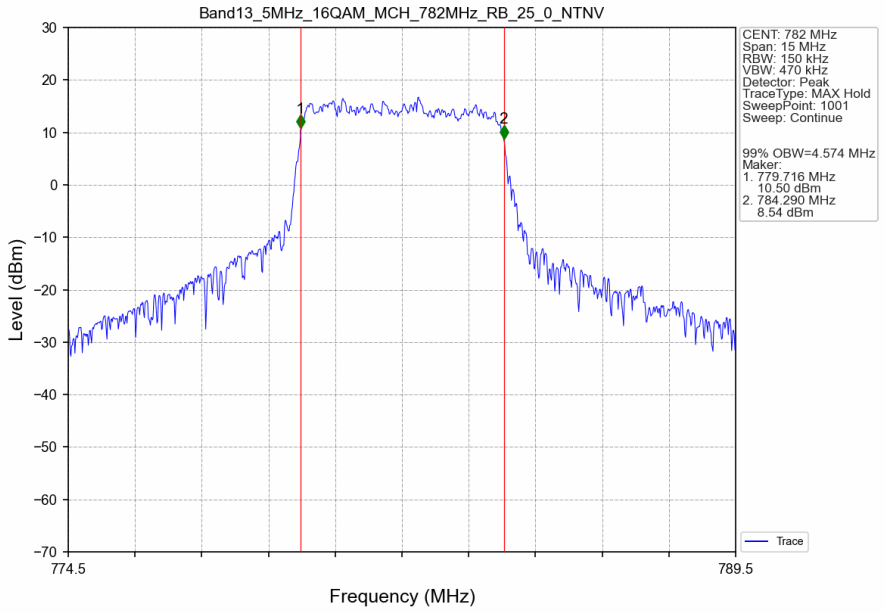
3.2 Test Graph

3.2.1 Band13_OBW

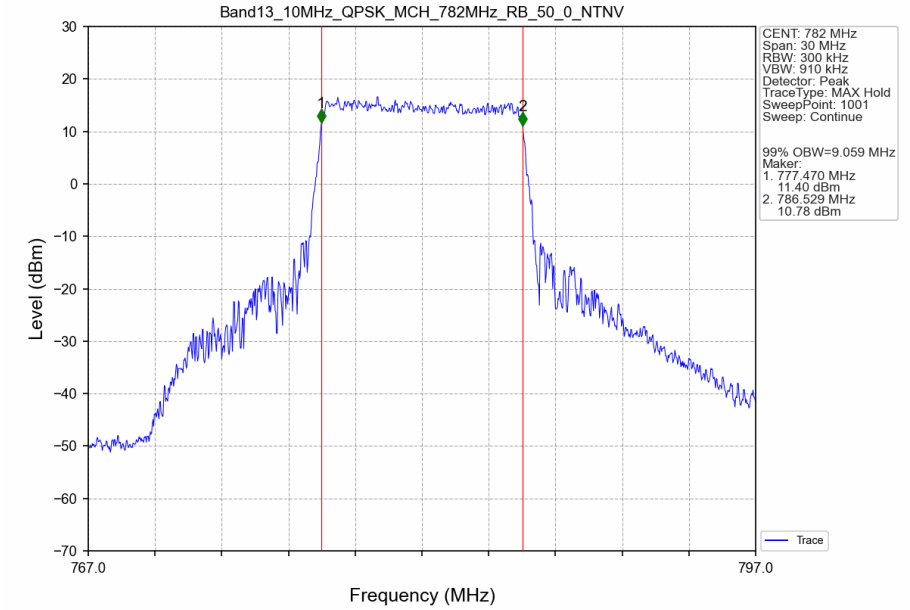
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



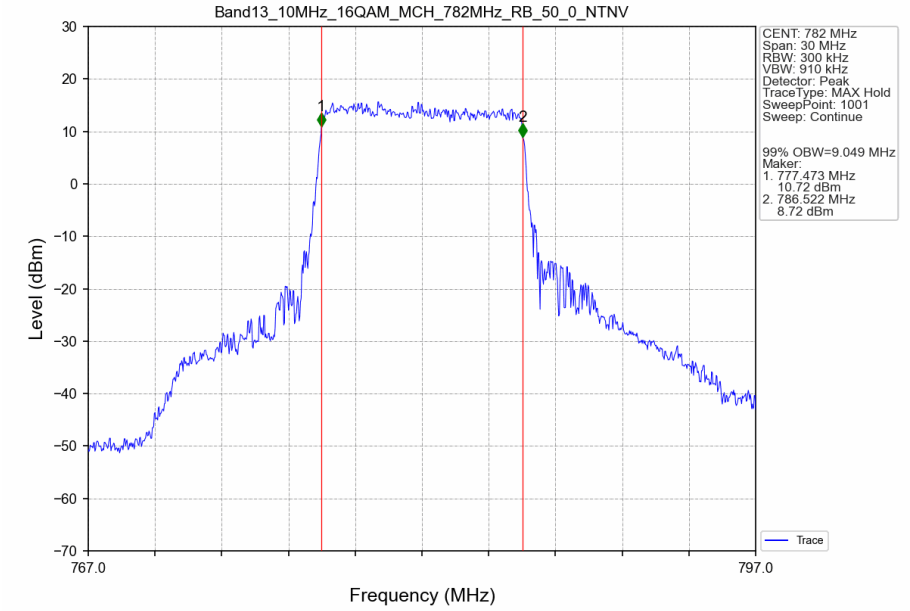
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV

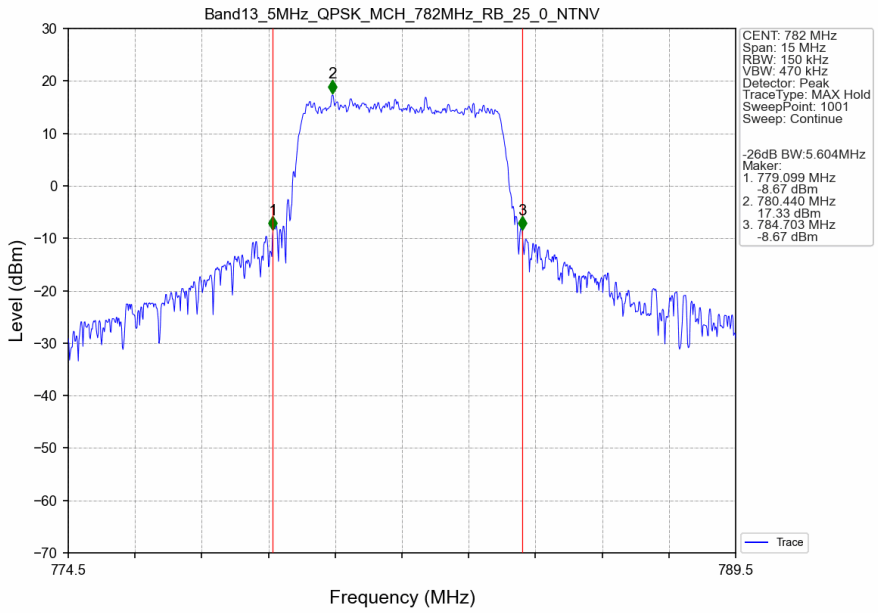


Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV

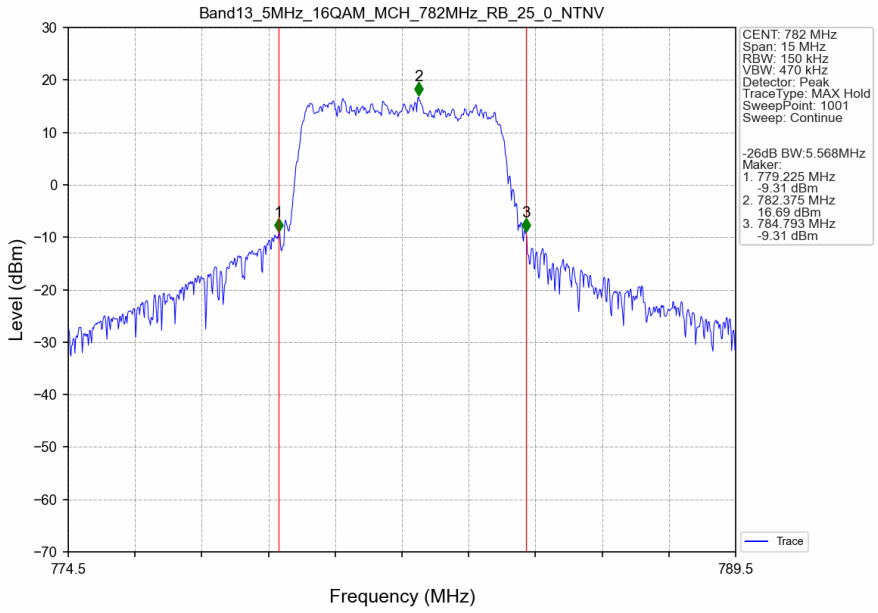


3.2.2 Band13_XDB

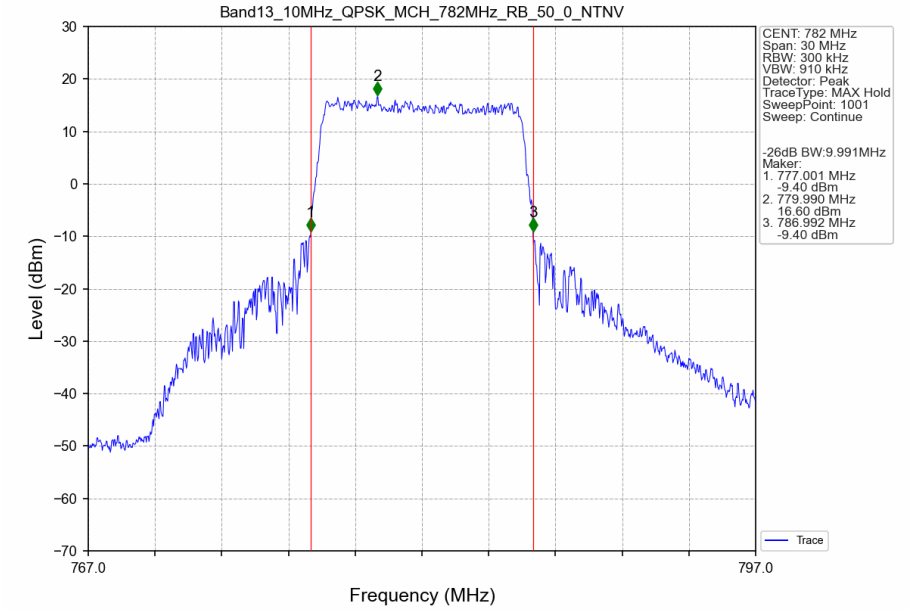
Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



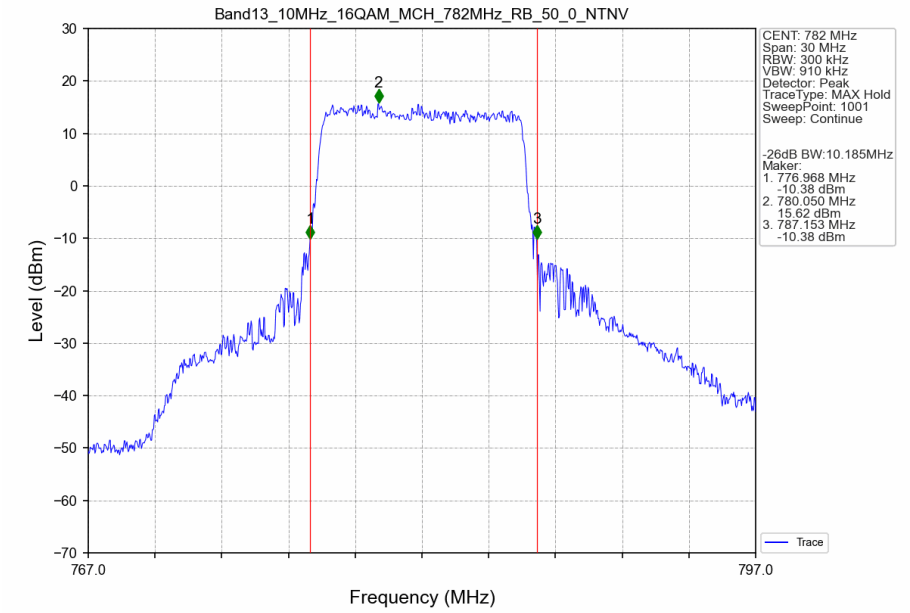
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



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

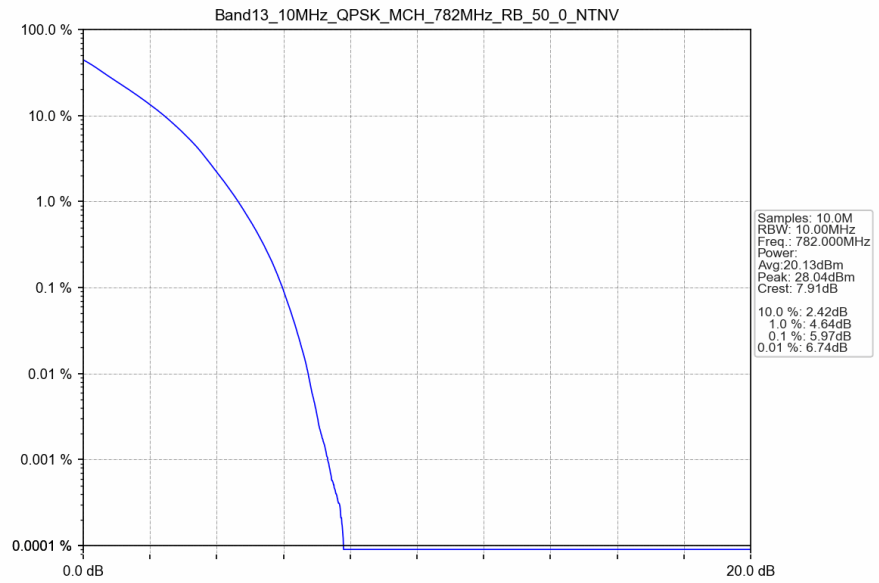
4.1.1 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.97	<=13	Pass
16QAM	782	50	0	6.70	<=13	Pass

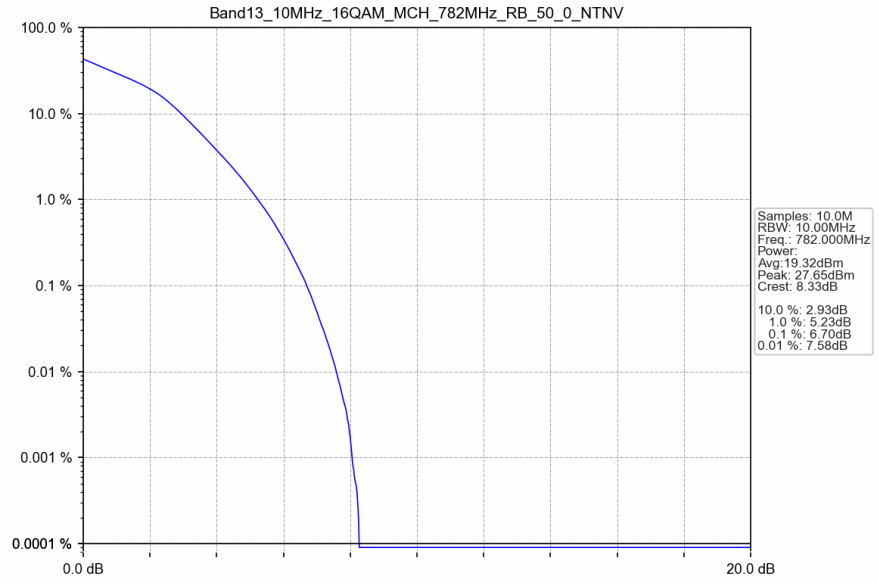
4.2 Test Graph

4.2.1 B13_10MHz

Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



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

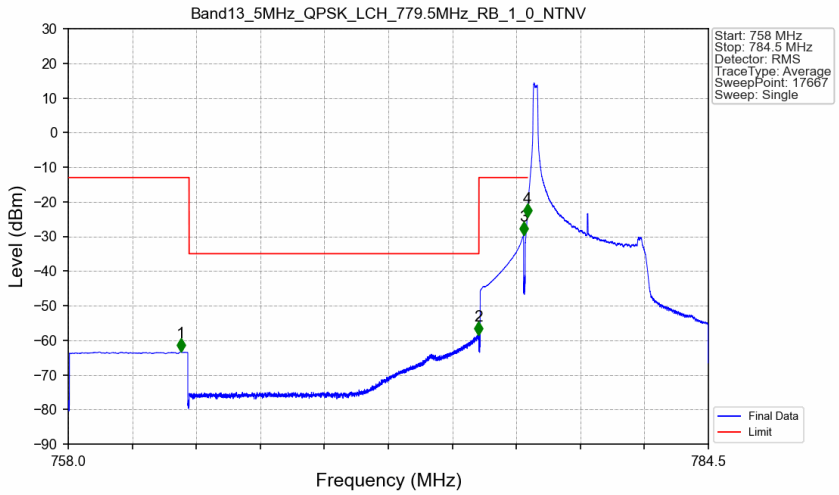
5.1.2 B13_10MHz

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

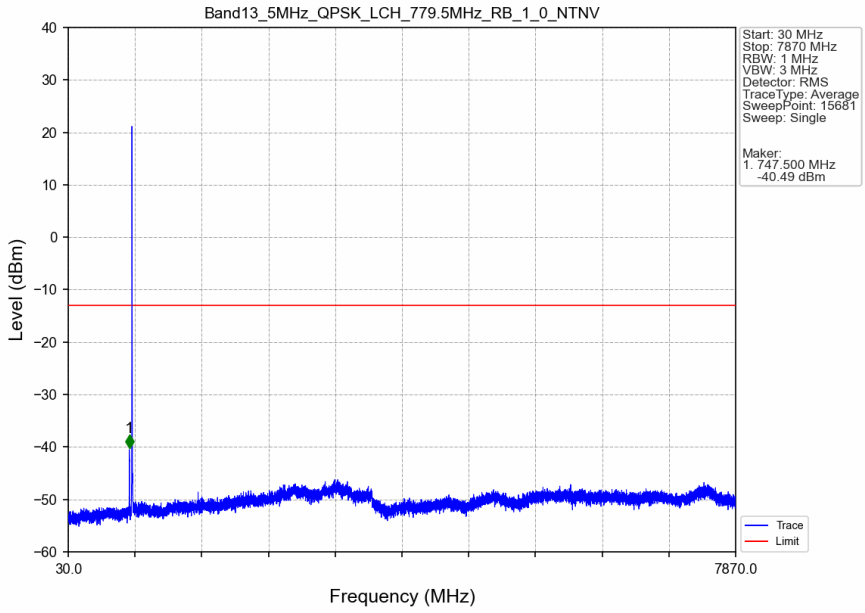
5.2.1 B13_5MHz

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

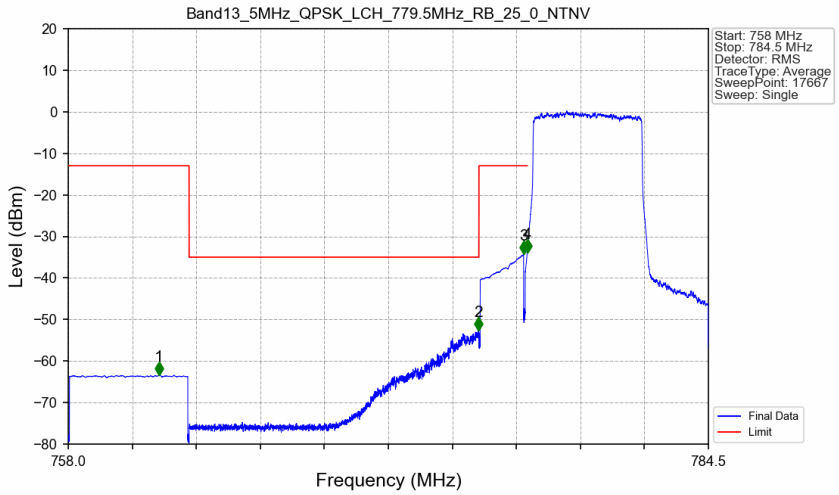


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.656	-63.35	-13	Pass
763	775	0.00625	CHP	2	774.993	-58.41	-35	Pass
775	776.9	0.1	CHP	3	776.850	-29.53	-13	Pass
776.9	777	0.03	CHP	4	777.000	-24.45	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

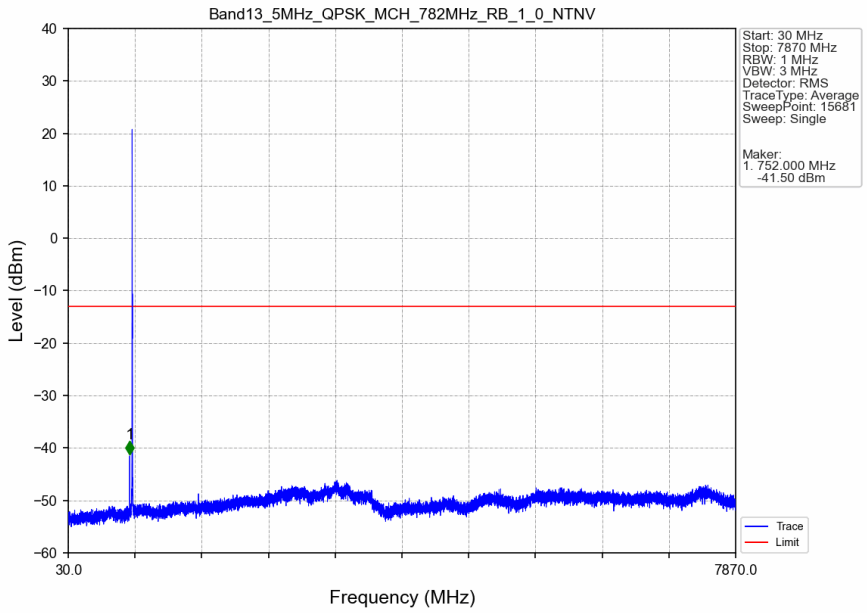


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

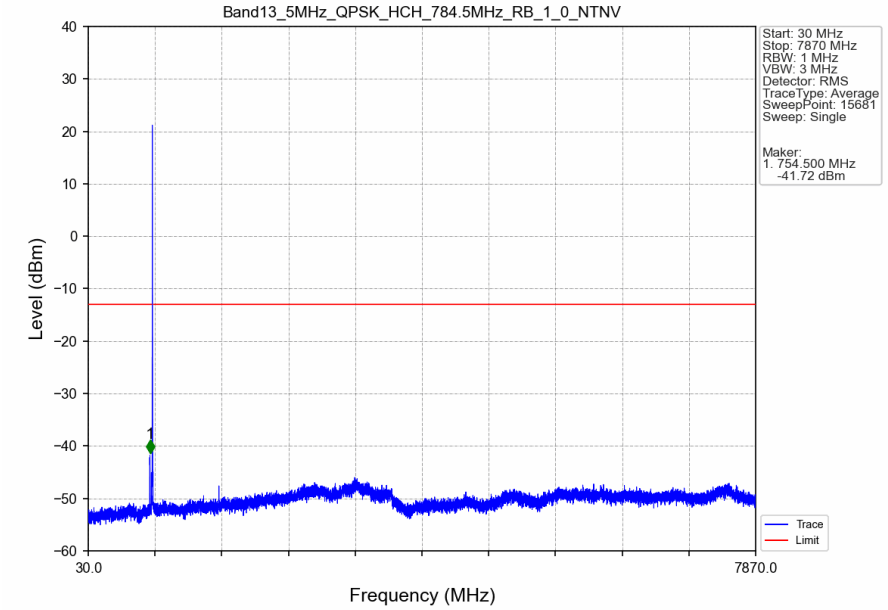


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.758	-63.31	-13	Pass
763	775	0.00625	CHP	2	774.979	-52.66	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.31	-13	Pass
776.9	777	0.03	CHP	4	777.000	-33.92	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

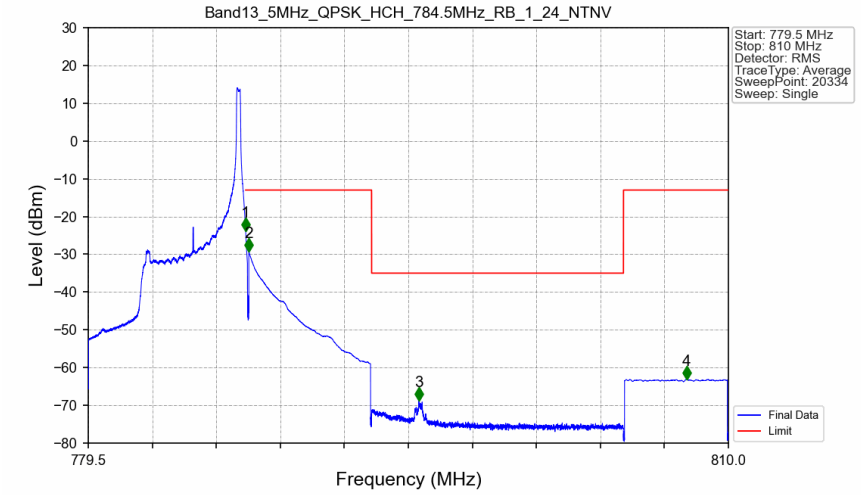
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

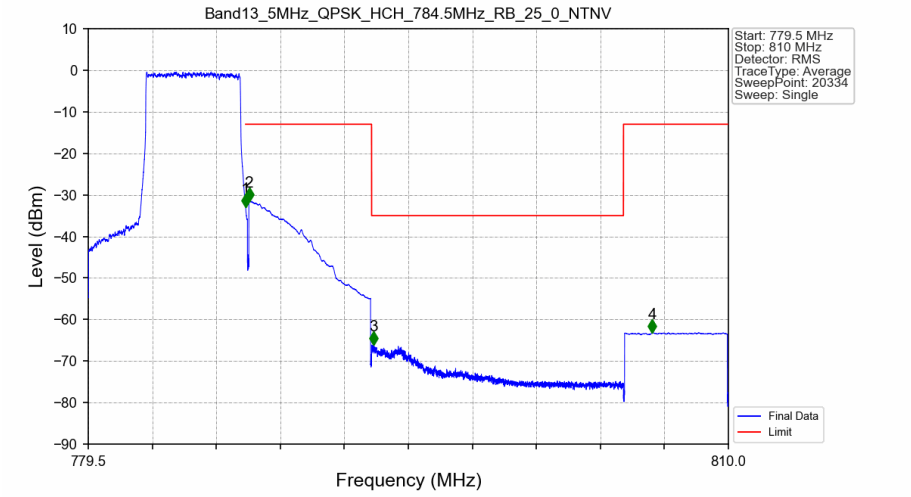


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



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	-23.88	-13	Pass
787.1	793	0.1	CHP	2	787.150	-29.30	-13	Pass
793	805	0.00625	CHP	3	795.262	-68.71	-35	Pass
805	810	0.1	CHP	4	808.008	-63.08	-13	Pass

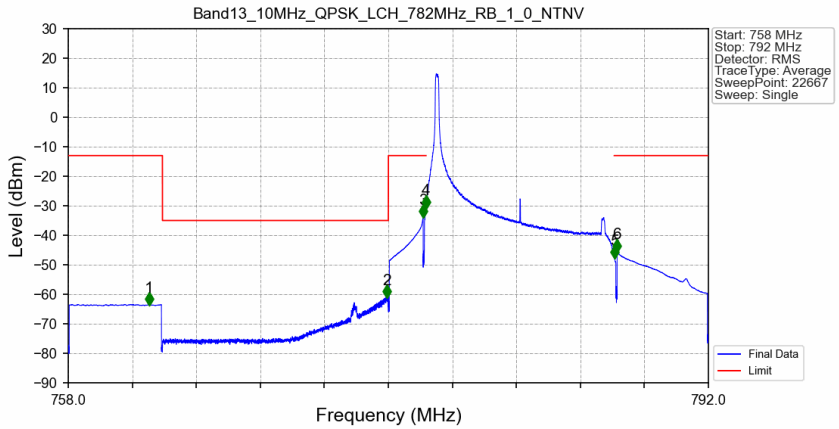
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



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	-32.94	-13	Pass
787.1	793	0.1	CHP	2	787.165	-31.47	-13	Pass
793	805	0.00625	CHP	3	793.102	-66.11	-35	Pass
805	810	0.1	CHP	4	806.373	-63.16	-13	Pass

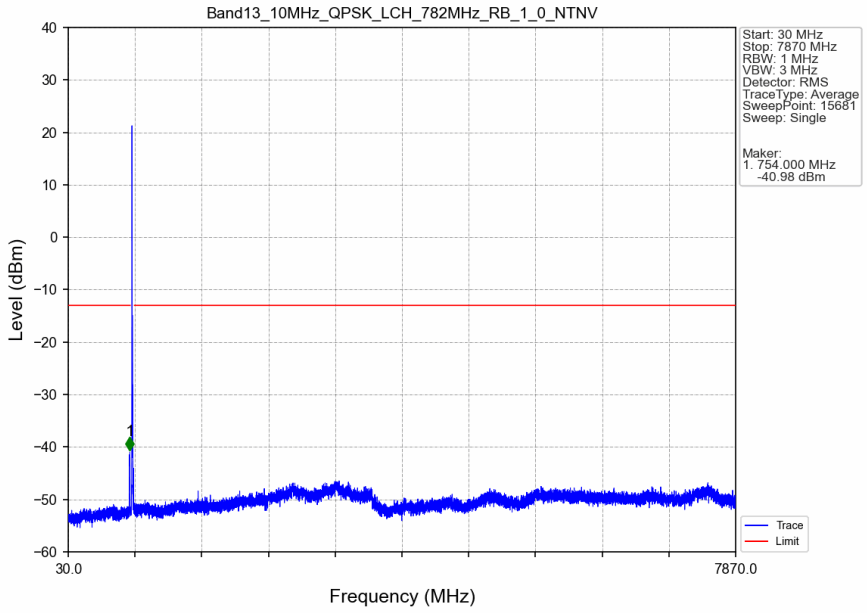
5.2.2 B13_10MHz

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

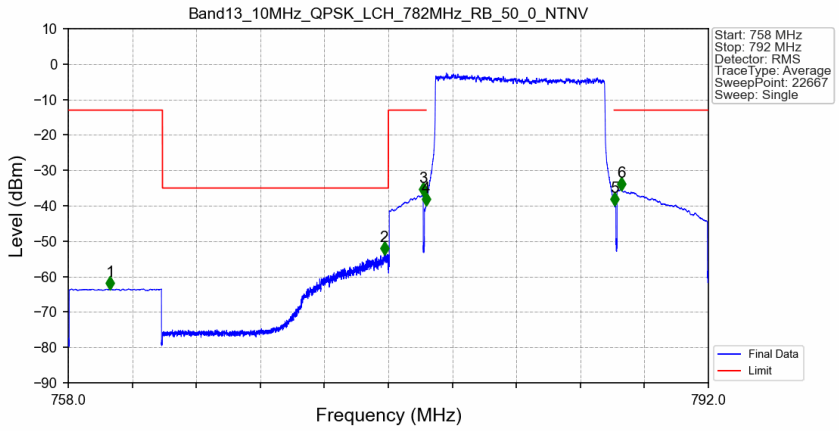


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.295	-63.45	-13	Pass
763	775	0.00625	CHP	2	774.920	-60.84	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.68	-13	Pass
776.9	777	0.03	CHP	4	777.000	-30.56	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.008	-47.65	-13	Pass
787.1	792	0.1	CHP	6	787.150	-45.40	-13	Pass

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

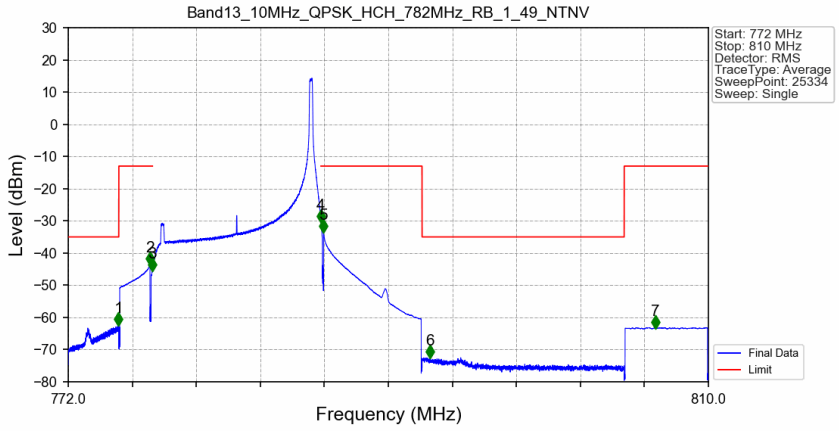


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



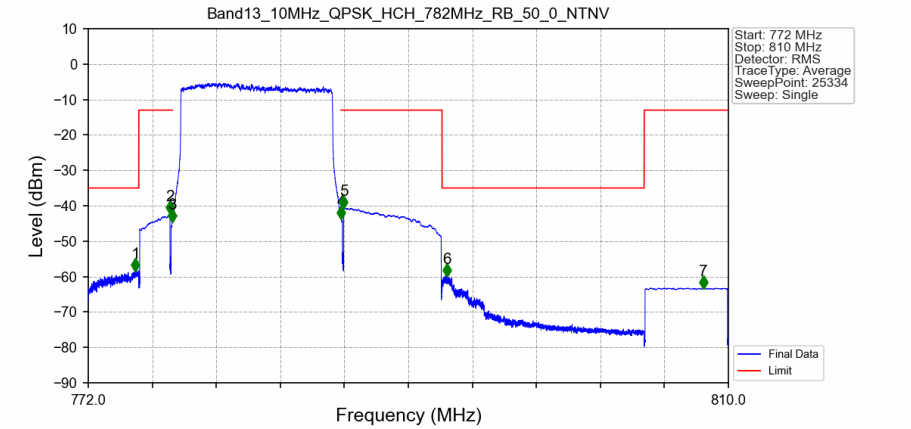
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.214	-63.45	-13	Pass
763	775	0.00625	CHP	2	774.779	-53.56	-35	Pass
775	776.9	0.1	CHP	3	776.848	-36.97	-13	Pass
776.9	777	0.03	CHP	4	777.000	-39.63	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.020	-39.64	-13	Pass
787.1	792	0.1	CHP	6	787.375	-35.46	-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	774.970	-62.25	-35	Pass
775	776.9	0.1	CHP	2	776.848	-43.51	-13	Pass
776.9	777	0.03	CHP	3	776.989	-45.31	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-30.28	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.34	-13	Pass
793	805	0.00625	CHP	6	793.462	-72.42	-35	Pass
805	810	0.1	CHP	7	806.842	-63.18	-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	774.805	-58.25	-35	Pass
775	776.9	0.1	CHP	2	776.847	-41.99	-13	Pass
776.9	777	0.03	CHP	3	776.979	-44.37	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.017	-43.42	-13	Pass
787.1	793	0.1	CHP	5	787.159	-40.58	-13	Pass
793	805	0.00625	CHP	6	793.285	-59.79	-35	Pass
805	810	0.1	CHP	7	808.506	-63.21	-13	Pass