

**Appendix A.6****1. Effective (Isotropic) Radiated Power Output Data****1.1 Test Result****1.1.1 B13_5MHz_ERP**

Band: 13 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	24.27	0.80	22.92	<=34.77	Pass
			13	24.37	0.80	23.02	<=34.77	Pass
			24	24.36	0.80	23.01	<=34.77	Pass
		12	0	23.25	0.80	21.90	<=34.77	Pass
			6	23.52	0.80	22.17	<=34.77	Pass
			13	23.40	0.80	22.05	<=34.77	Pass
		25	0	23.51	0.80	22.16	<=34.77	Pass
	782	1	0	24.26	0.80	22.91	<=34.77	Pass
			13	24.34	0.80	22.99	<=34.77	Pass
			24	24.30	0.80	22.95	<=34.77	Pass
		12	0	23.38	0.80	22.03	<=34.77	Pass
			6	23.40	0.80	22.05	<=34.77	Pass
			13	23.48	0.80	22.13	<=34.77	Pass
		25	0	23.38	0.80	22.03	<=34.77	Pass
	784.5	1	0	24.28	0.80	22.93	<=34.77	Pass
			13	24.40	0.80	23.05	<=34.77	Pass
			24	24.28	0.80	22.93	<=34.77	Pass
		12	0	23.43	0.80	22.08	<=34.77	Pass
			6	23.34	0.80	21.99	<=34.77	Pass
			13	23.46	0.80	22.11	<=34.77	Pass
		25	0	23.40	0.80	22.05	<=34.77	Pass
16QAM	779.5	1	0	23.96	0.80	22.61	<=34.77	Pass
			13	23.95	0.80	22.60	<=34.77	Pass
			24	23.66	0.80	22.31	<=34.77	Pass
		12	0	22.15	0.80	20.80	<=34.77	Pass
			6	22.57	0.80	21.22	<=34.77	Pass
			13	22.52	0.80	21.17	<=34.77	Pass
		25	0	22.50	0.80	21.15	<=34.77	Pass
	782	1	0	23.78	0.80	22.43	<=34.77	Pass
			13	23.90	0.80	22.55	<=34.77	Pass
			24	23.95	0.80	22.60	<=34.77	Pass
		12	0	22.26	0.80	20.91	<=34.77	Pass
			6	22.46	0.80	21.11	<=34.77	Pass
			13	22.46	0.80	21.11	<=34.77	Pass
		25	0	22.53	0.80	21.18	<=34.77	Pass
	784.5	1	0	23.70	0.80	22.35	<=34.77	Pass
			13	23.76	0.80	22.41	<=34.77	Pass
			24	23.74	0.80	22.39	<=34.77	Pass
		12	0	22.41	0.80	21.06	<=34.77	Pass
			6	22.41	0.80	21.06	<=34.77	Pass
			6	22.41	0.80	21.06	<=34.77	Pass

64QAM	779.5	25	13	22.47	0.80	21.12	<=34.77	Pass
			0	22.29	0.80	20.94	<=34.77	Pass
		1	0	23.46	0.80	22.11	<=34.77	Pass
			13	23.67	0.80	22.32	<=34.77	Pass
			24	23.71	0.80	22.36	<=34.77	Pass
		12	0	22.44	0.80	21.09	<=34.77	Pass
			6	22.53	0.80	21.18	<=34.77	Pass
			13	22.40	0.80	21.05	<=34.77	Pass
		25	0	22.43	0.80	21.08	<=34.77	Pass
	782	1	0	23.89	0.80	22.54	<=34.77	Pass
			13	23.53	0.80	22.18	<=34.77	Pass
			24	23.64	0.80	22.29	<=34.77	Pass
		12	0	22.43	0.80	21.08	<=34.77	Pass
			6	22.33	0.80	20.98	<=34.77	Pass
			13	22.49	0.80	21.14	<=34.77	Pass
		25	0	22.35	0.80	21.00	<=34.77	Pass
	784.5	1	0	23.64	0.80	22.29	<=34.77	Pass
			13	23.64	0.80	22.29	<=34.77	Pass
			24	23.56	0.80	22.21	<=34.77	Pass
		12	0	22.37	0.80	21.02	<=34.77	Pass
			6	22.38	0.80	21.03	<=34.77	Pass
			13	22.37	0.80	21.02	<=34.77	Pass
		25	0	22.37	0.80	21.02	<=34.77	Pass
256QAM	779.5	1	0	19.37	0.80	18.02	<=34.77	Pass
			13	19.93	0.80	18.58	<=34.77	Pass
			24	19.69	0.80	18.34	<=34.77	Pass
		12	0	19.38	0.80	18.03	<=34.77	Pass
			6	19.45	0.80	18.10	<=34.77	Pass
			13	19.48	0.80	18.13	<=34.77	Pass
		25	0	19.43	0.80	18.08	<=34.77	Pass
	782	1	0	19.69	0.80	18.34	<=34.77	Pass
			13	19.51	0.80	18.16	<=34.77	Pass
			24	19.44	0.80	18.09	<=34.77	Pass
		12	0	19.34	0.80	17.99	<=34.77	Pass
			6	19.42	0.80	18.07	<=34.77	Pass
			13	19.37	0.80	18.02	<=34.77	Pass
		25	0	19.28	0.80	17.93	<=34.77	Pass
	784.5	1	0	19.62	0.80	18.27	<=34.77	Pass
			13	19.55	0.80	18.20	<=34.77	Pass
			24	19.49	0.80	18.14	<=34.77	Pass
		12	0	19.37	0.80	18.02	<=34.77	Pass
			6	19.48	0.80	18.13	<=34.77	Pass
			13	19.39	0.80	18.04	<=34.77	Pass
		25	0	19.44	0.80	18.09	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	



Report No.: SUCR260400030106

Page: 3 of 29

QPSK	782	1	0	24.18	0.80	22.83	<=34.77	Pass
			25	24.21	0.80	22.86	<=34.77	Pass
			49	24.16	0.80	22.81	<=34.77	Pass
		25	0	23.46	0.80	22.11	<=34.77	Pass
			13	23.43	0.80	22.08	<=34.77	Pass
			25	23.50	0.80	22.15	<=34.77	Pass
		50	0	23.49	0.80	22.14	<=34.77	Pass
16QAM	782	1	0	23.77	0.80	22.42	<=34.77	Pass
			25	23.72	0.80	22.37	<=34.77	Pass
			49	23.56	0.80	22.21	<=34.77	Pass
		25	0	22.44	0.80	21.09	<=34.77	Pass
			13	22.48	0.80	21.13	<=34.77	Pass
			25	22.56	0.80	21.21	<=34.77	Pass
		50	0	22.43	0.80	21.08	<=34.77	Pass
64QAM	782	1	0	23.52	0.80	22.17	<=34.77	Pass
			25	23.68	0.80	22.33	<=34.77	Pass
			49	23.46	0.80	22.11	<=34.77	Pass
		25	0	22.44	0.80	21.09	<=34.77	Pass
			13	22.46	0.80	21.11	<=34.77	Pass
			25	22.47	0.80	21.12	<=34.77	Pass
		50	0	22.44	0.80	21.09	<=34.77	Pass
256QAM	782	1	0	19.46	0.80	18.11	<=34.77	Pass
			25	19.58	0.80	18.23	<=34.77	Pass
			49	19.50	0.80	18.15	<=34.77	Pass
		25	0	19.55	0.80	18.20	<=34.77	Pass
			13	19.48	0.80	18.13	<=34.77	Pass
			25	19.51	0.80	18.16	<=34.77	Pass
		50	0	19.43	0.80	18.08	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	3.27	-3.300	-0.0042	-2.5 to 2.5	Pass
					3.85	2.800	0.0036	-2.5 to 2.5	Pass
					4.43	0.500	0.0006	-2.5 to 2.5	Pass
				-30	3.85	-1.000	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	0.500	0.0006	-2.5 to 2.5	Pass
				-10	3.85	1.900	0.0024	-2.5 to 2.5	Pass
				0	3.85	-1.500	-0.0019	-2.5 to 2.5	Pass
				10	3.85	1.200	0.0015	-2.5 to 2.5	Pass
				30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-1.200	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-0.300	-0.0004	-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	4.496	/	Pass
	16QAM	782	25	0	4.492	/	Pass
	64QAM	782	25	0	4.491	/	Pass
	256QAM	782	25	0	4.499	/	Pass
10	QPSK	782	50	0	8.926	/	Pass
	16QAM	782	50	0	8.907	/	Pass
	64QAM	782	50	0	8.918	/	Pass
	256QAM	782	50	0	8.889	/	Pass

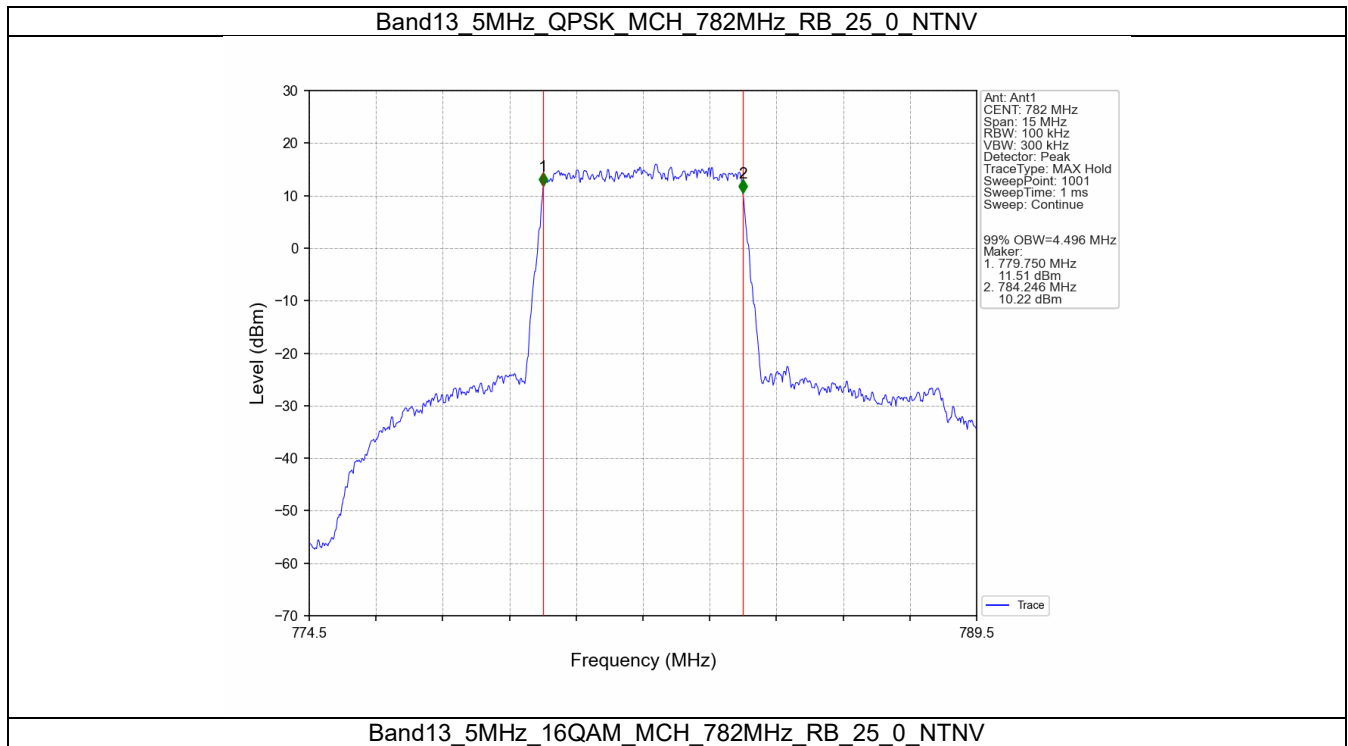
3.1.2 Band13_XDB

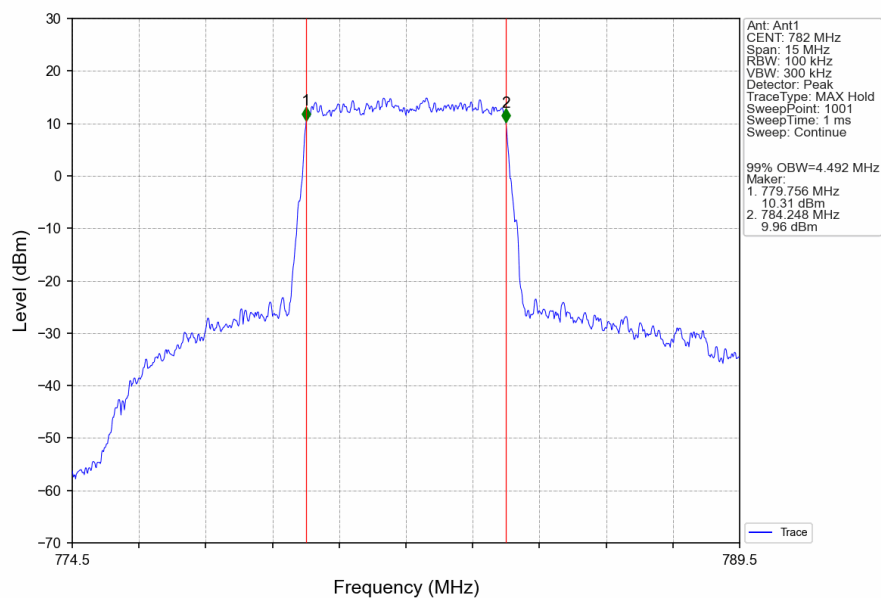
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.979	/	Pass
	16QAM	782	25	0	4.976	/	Pass
	64QAM	782	25	0	4.927	/	Pass
	256QAM	782	25	0	4.857	/	Pass
10	QPSK	782	50	0	9.635	/	Pass
	16QAM	782	50	0	9.561	/	Pass
	64QAM	782	50	0	9.575	/	Pass
	256QAM	782	50	0	9.528	/	Pass



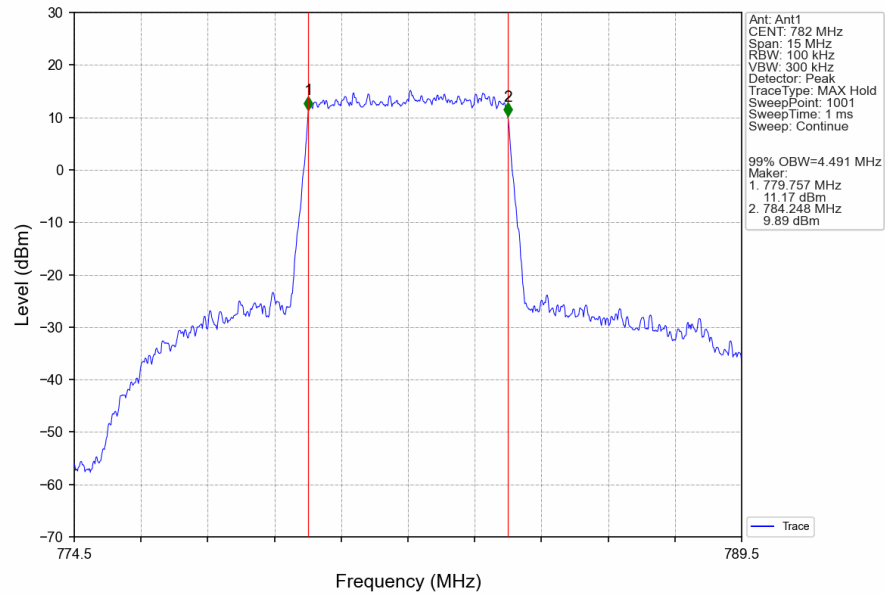
3.2 Test Graph

3.2.1 Band13_OBW

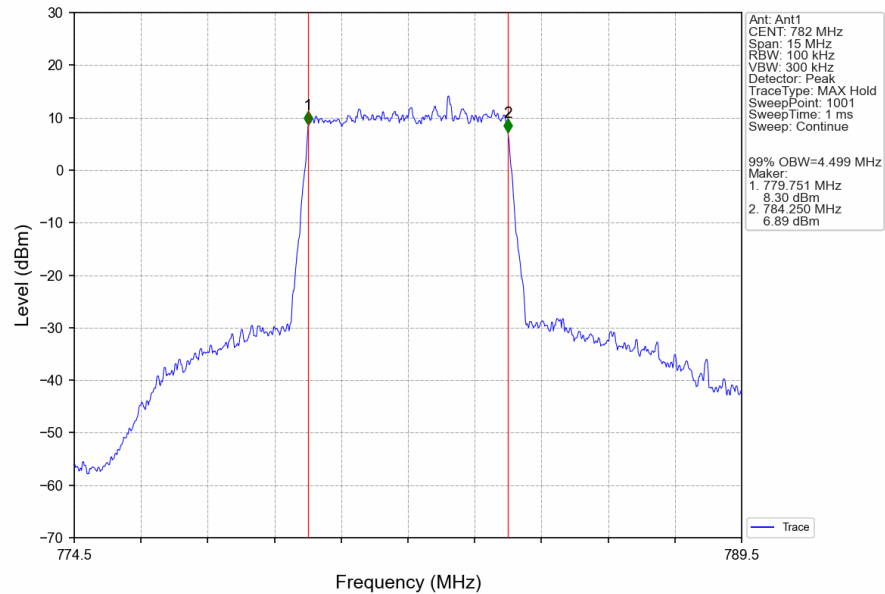




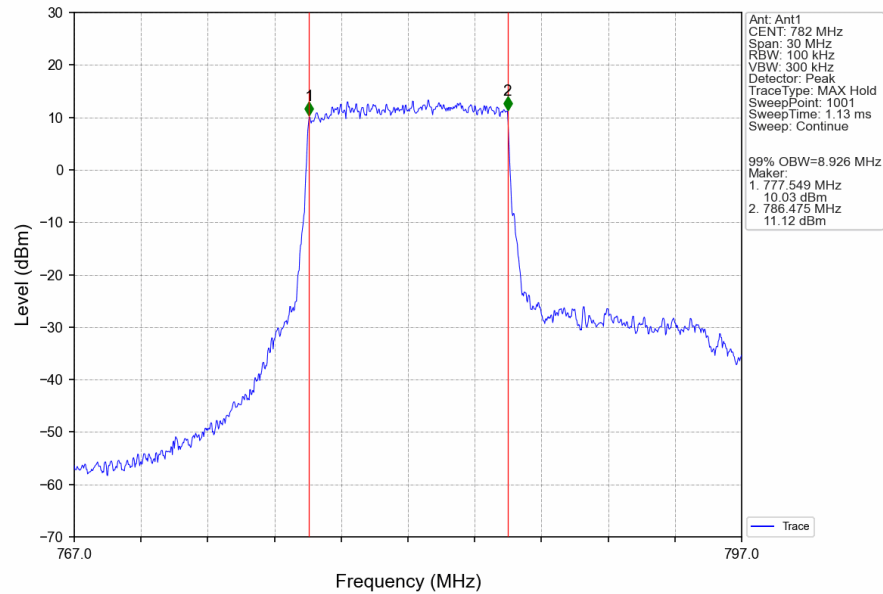
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



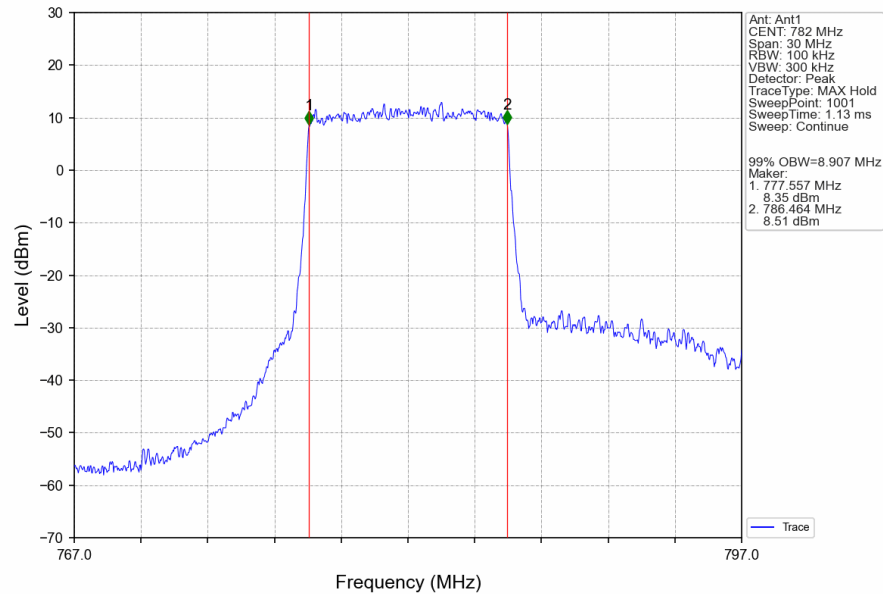
Band13_5MHz_256QAM_MCH_782MHz_RB_25_0_NTNV



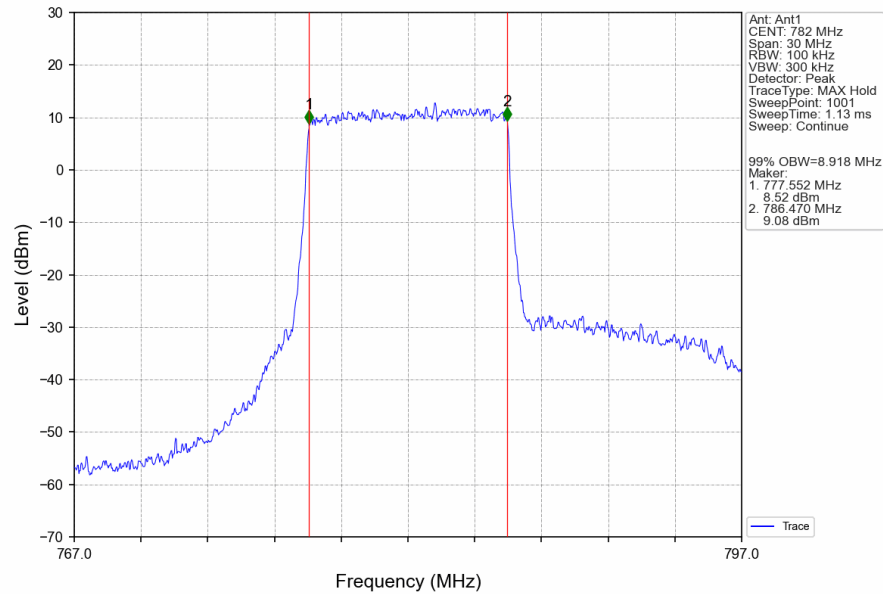
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



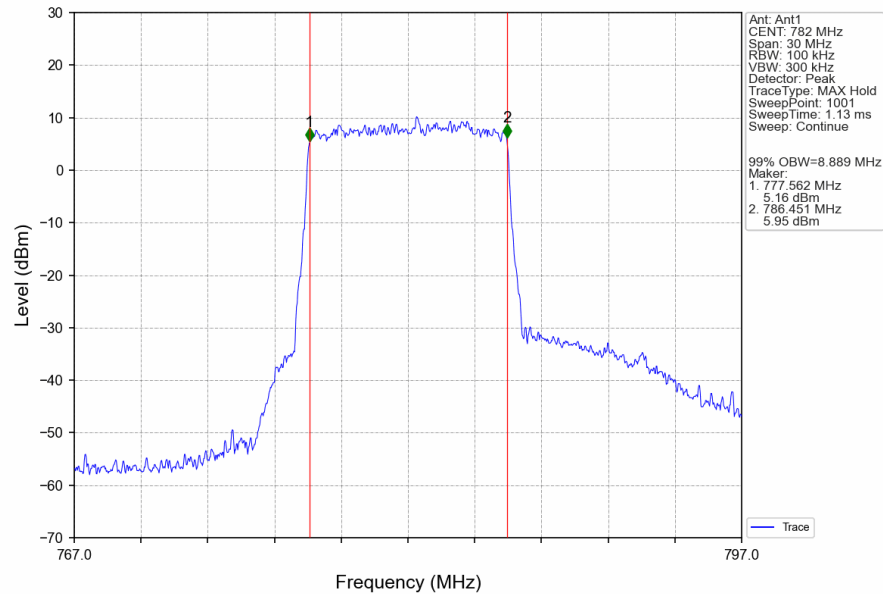
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



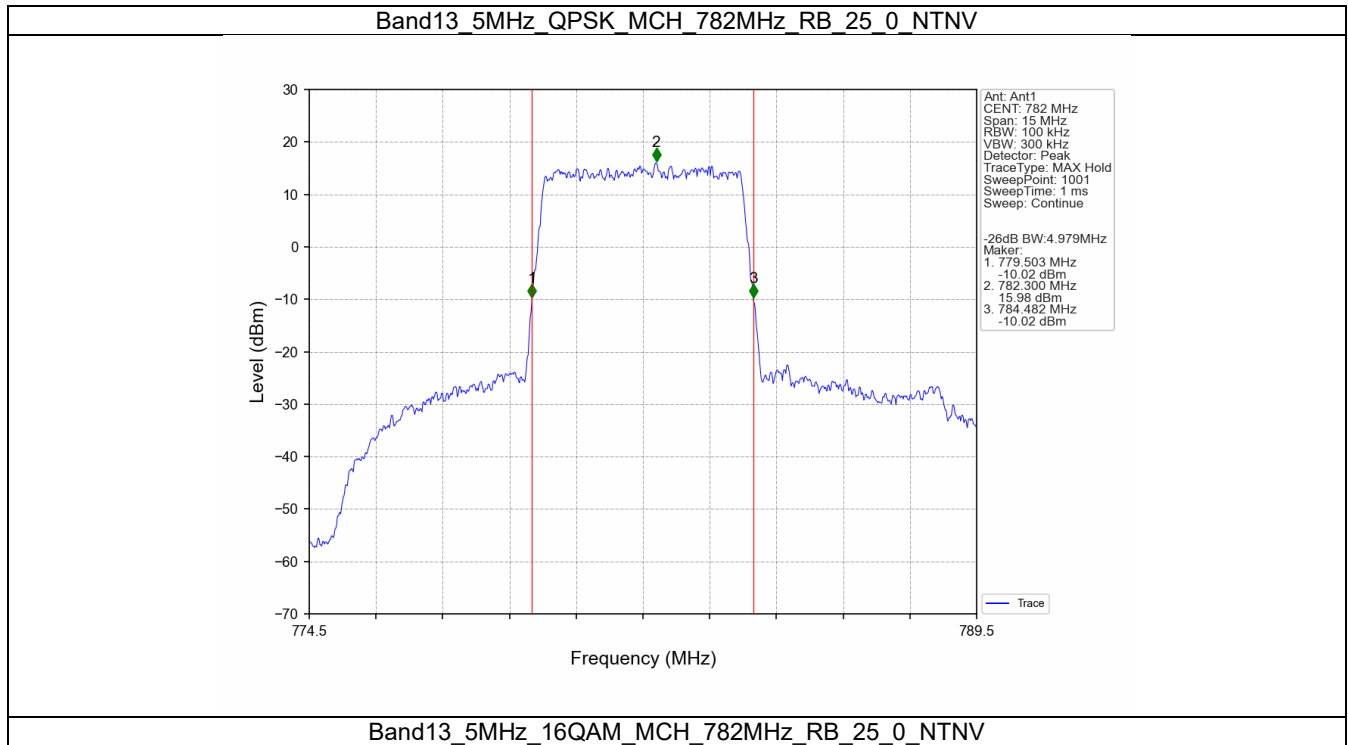
Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV

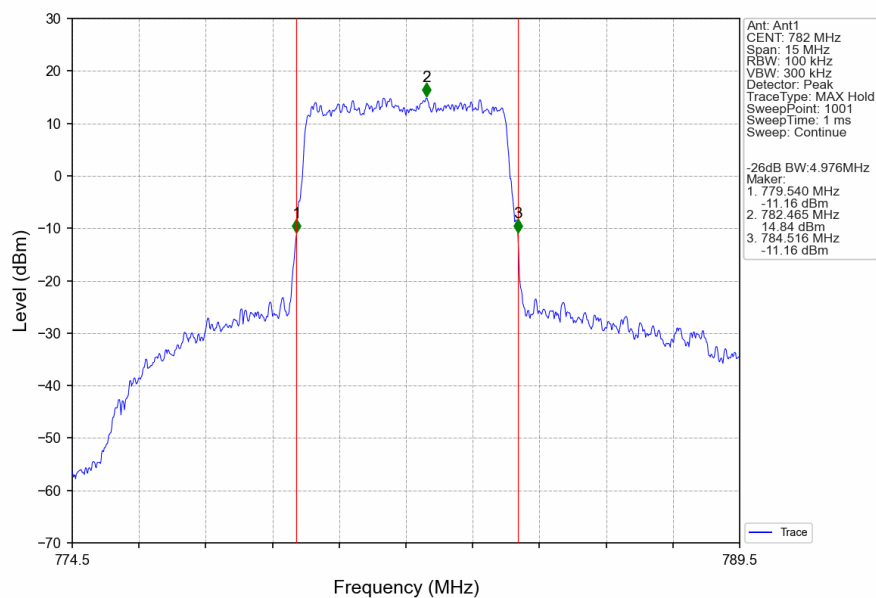


Band13_10MHz_256QAM_MCH_782MHz_RB_50_0_NTNV

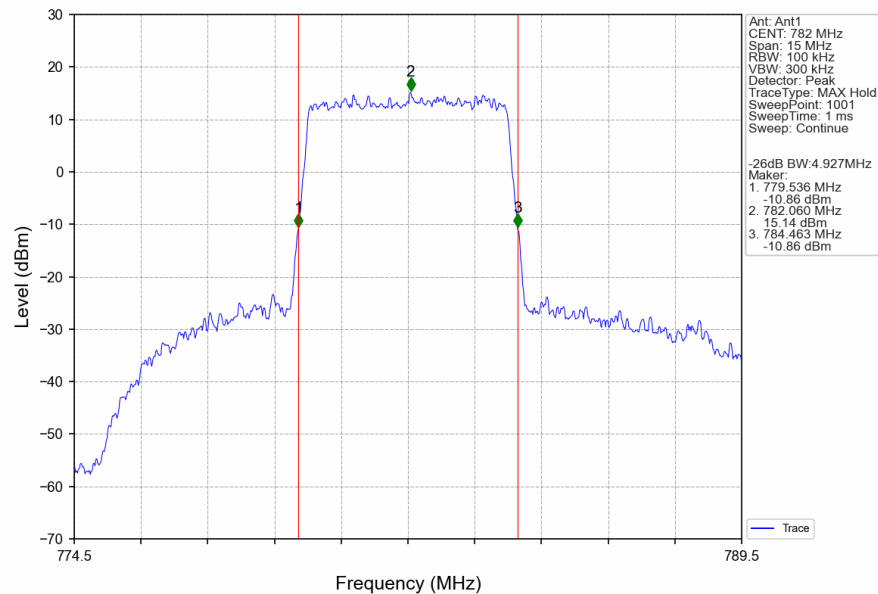


3.2.2 Band13_XDB

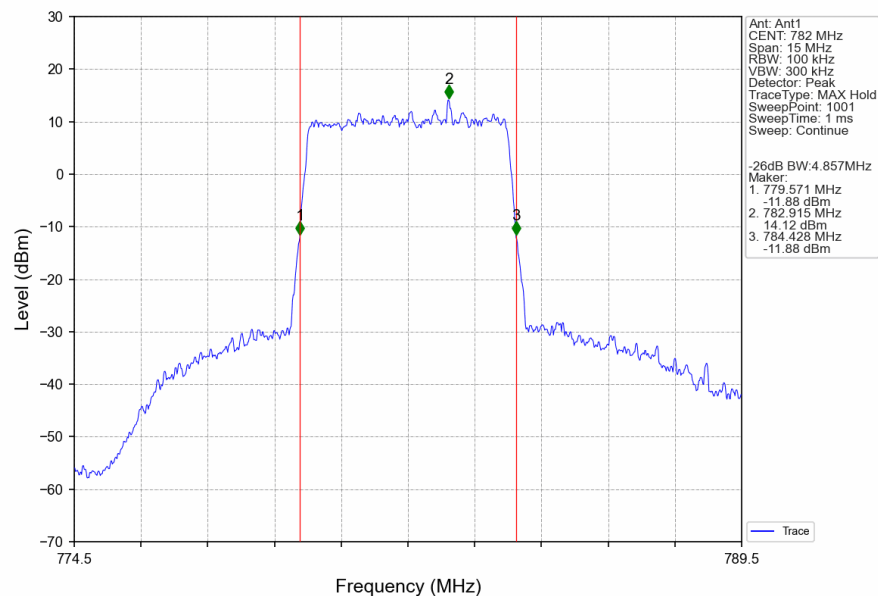




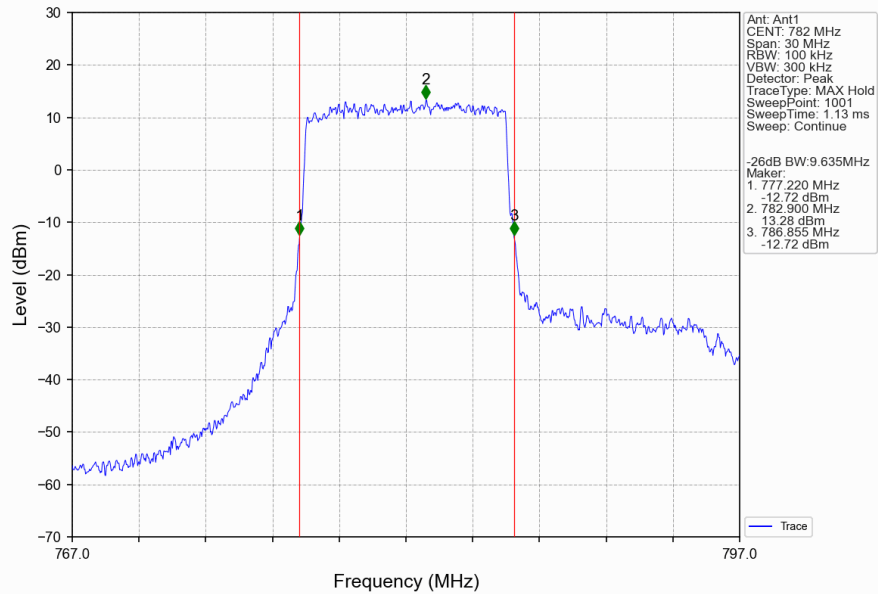
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



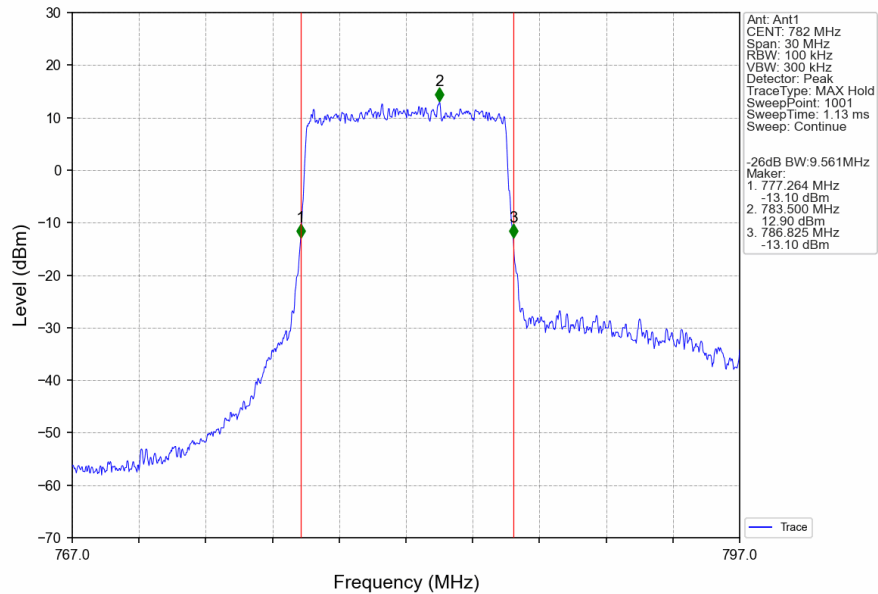
Band13_5MHz_256QAM_MCH_782MHz_RB_25_0_NTNV



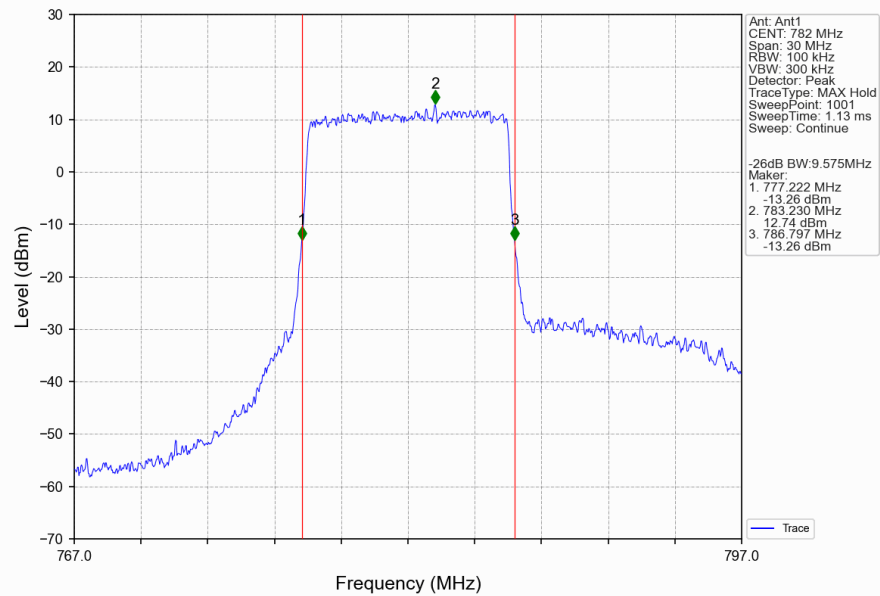
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



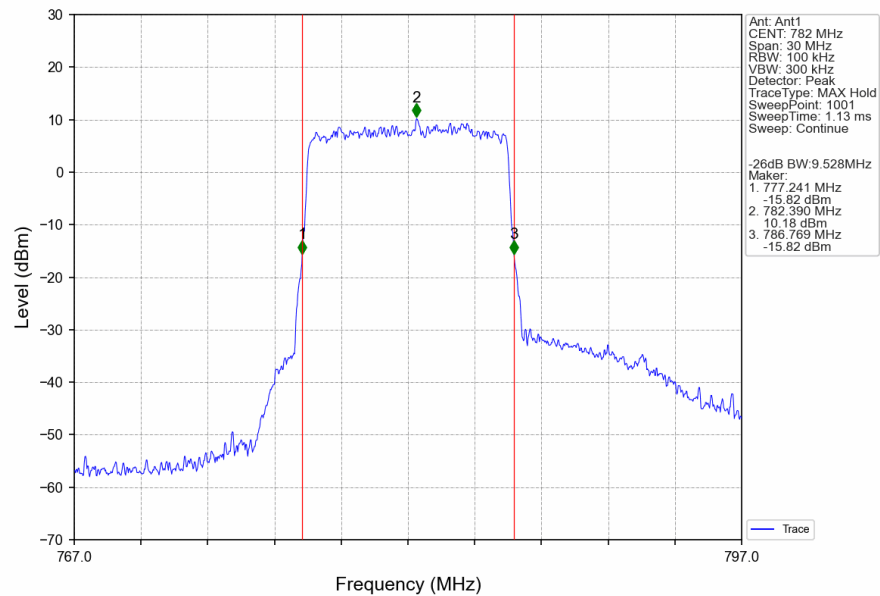
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_256QAM_MCH_782MHz_RB_50_0_NTNV





Report No.: SUCR260400030106
Page: 15 of 29

4. Peak-Average Ratio

4.1 Test Result

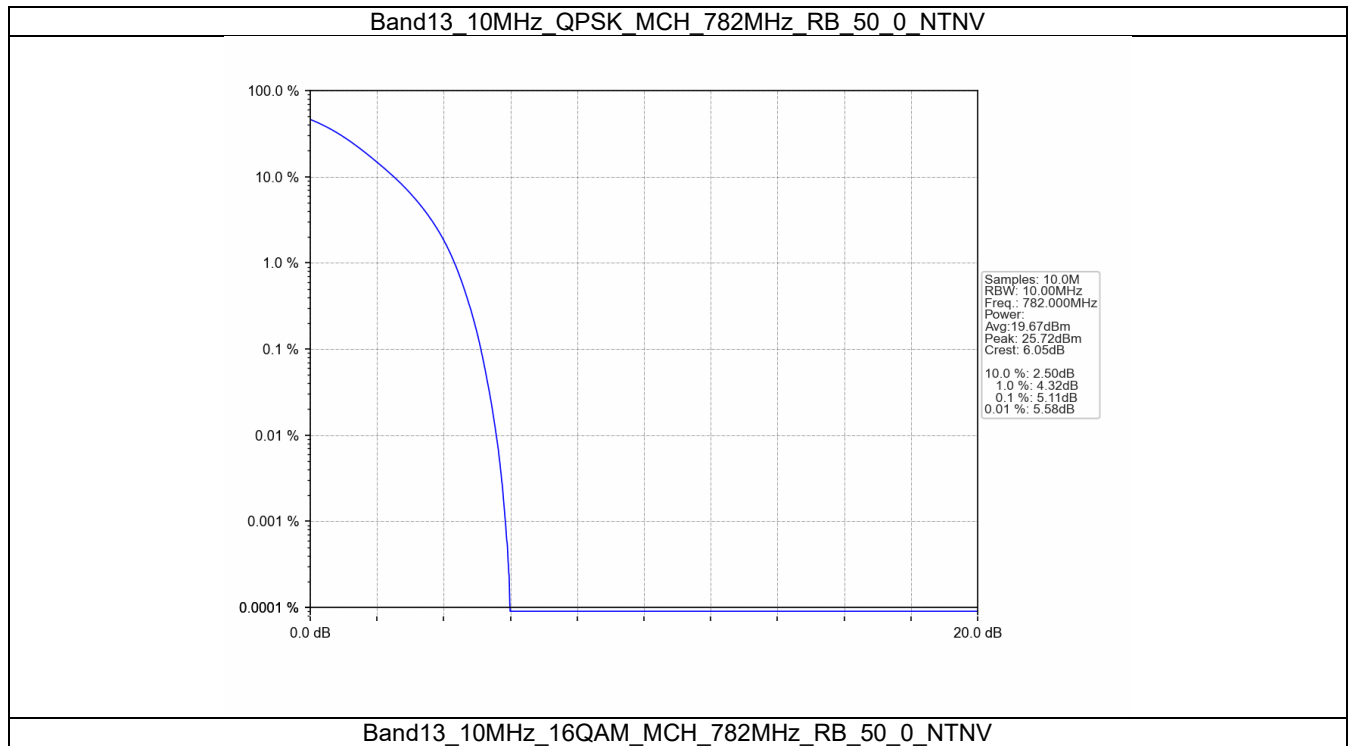
4.1.1 B13_10MHz

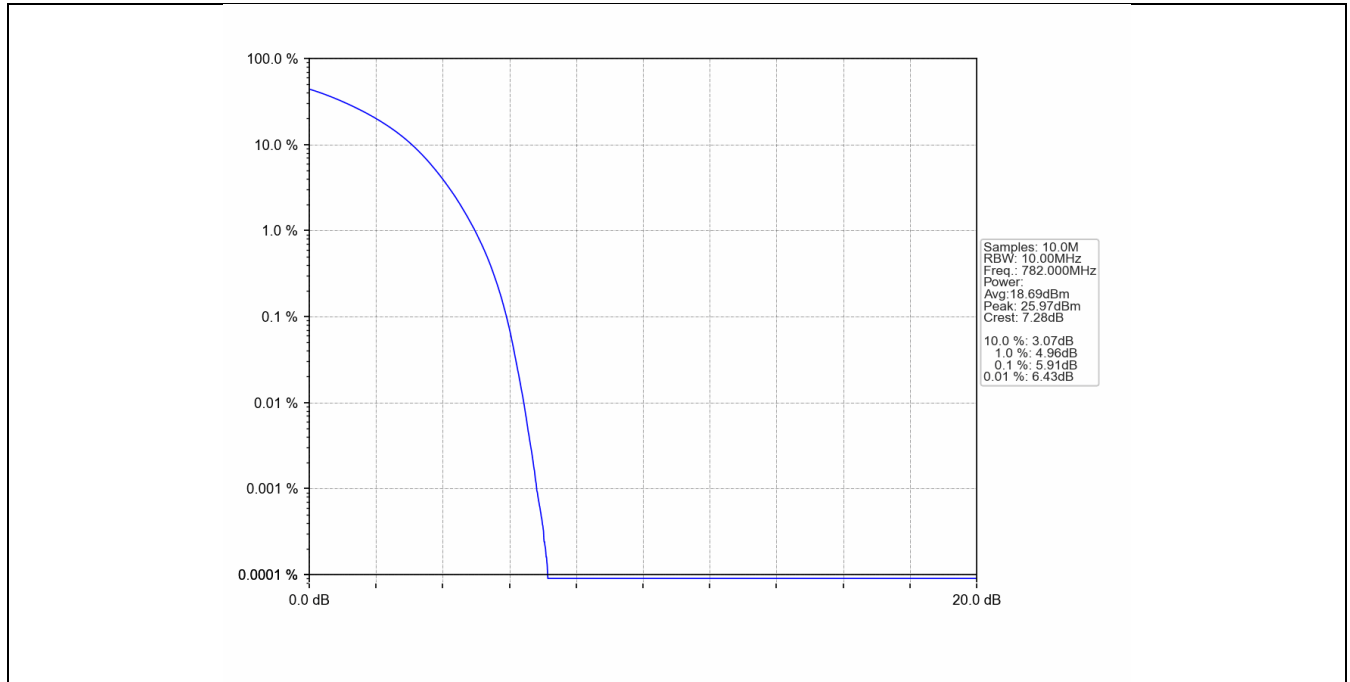
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.11	<=13	Pass
16QAM	782	50	0	5.91	<=13	Pass
64QAM	782	50	0	5.90	<=13	Pass
256QAM	782	50	0	6.72	<=13	Pass



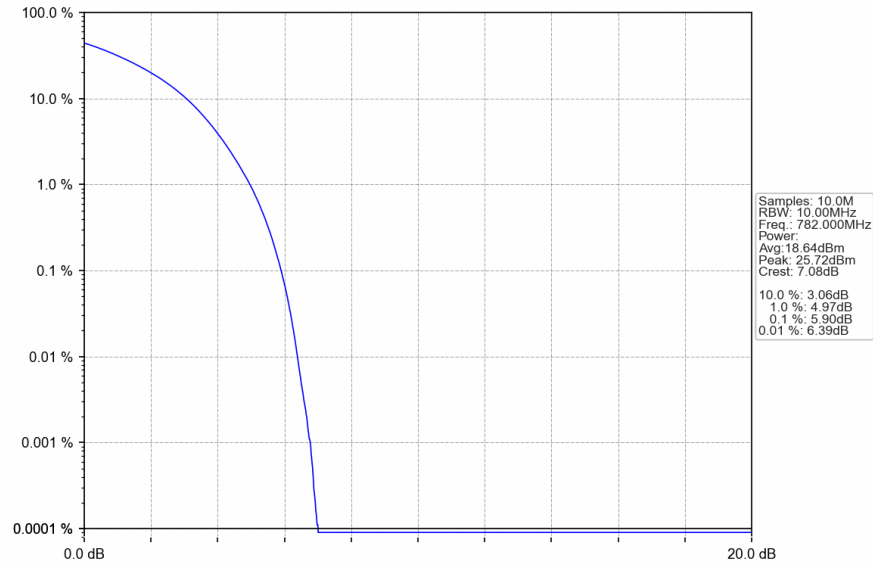
4.2 Test Graph

4.2.1 B13_10MHz

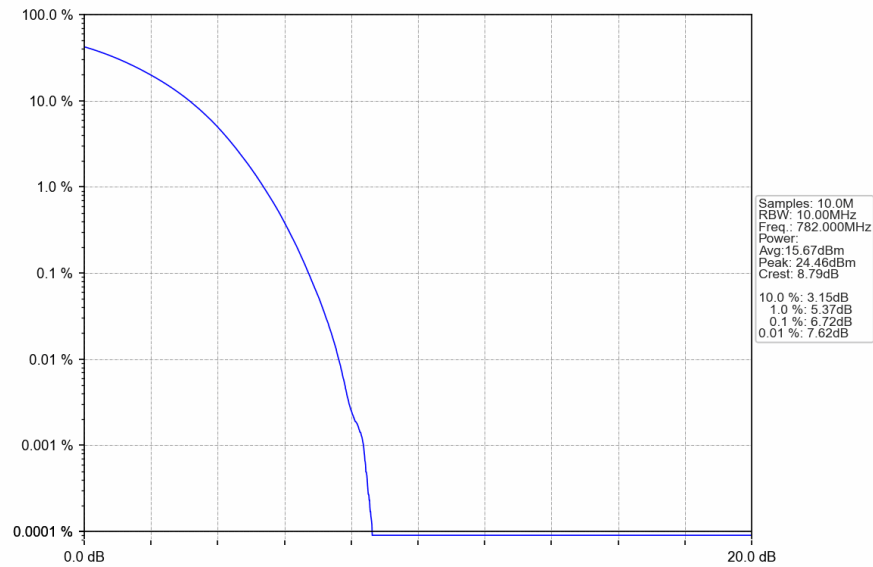




Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_256QAM_MCH_782MHz_RB_50_0_NTNV





5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

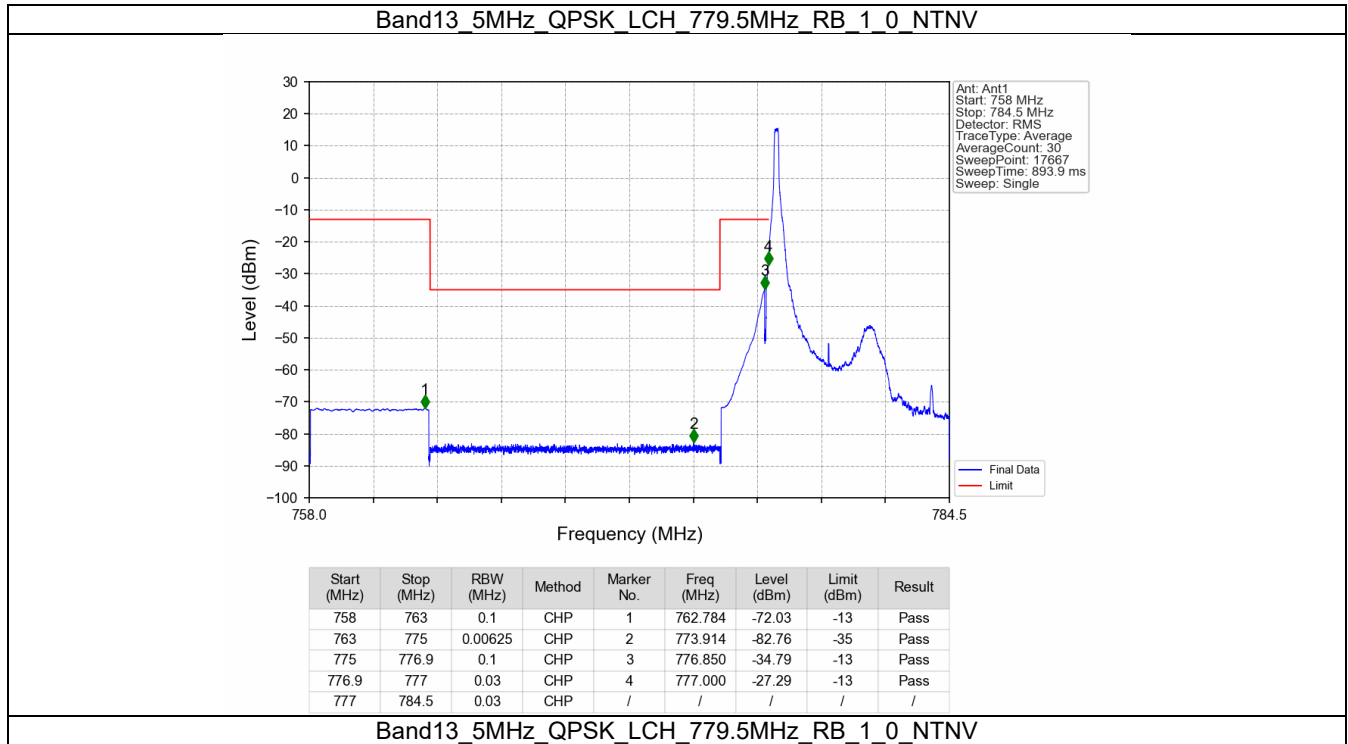
Band: 13 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	779.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	782	1	0	Refer To Test Graph	Pass
	784.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
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

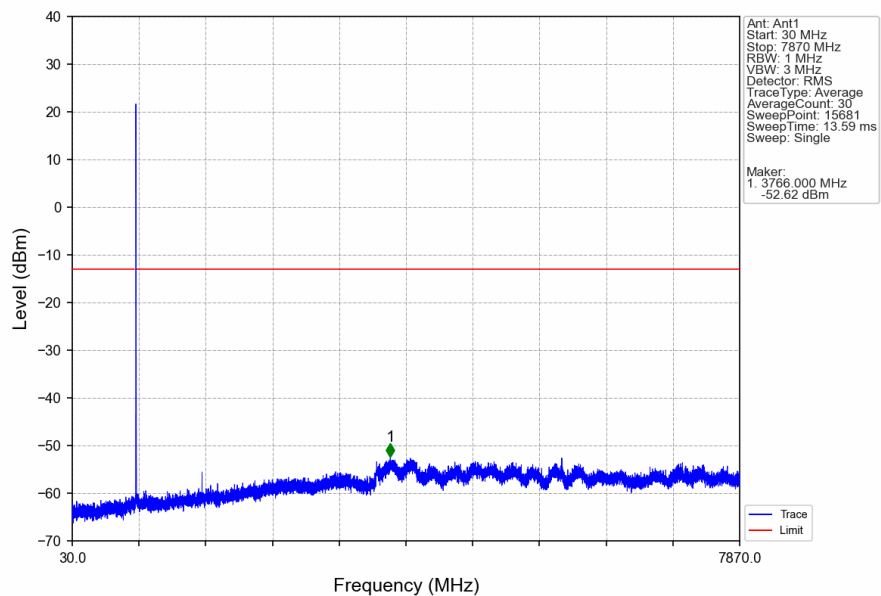
5.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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

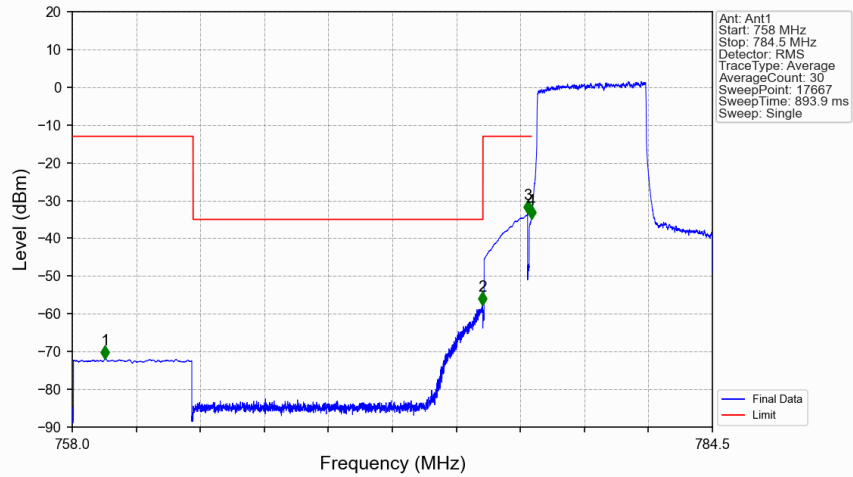
5.2 Test Graph

5.2.1 B13_5MHz



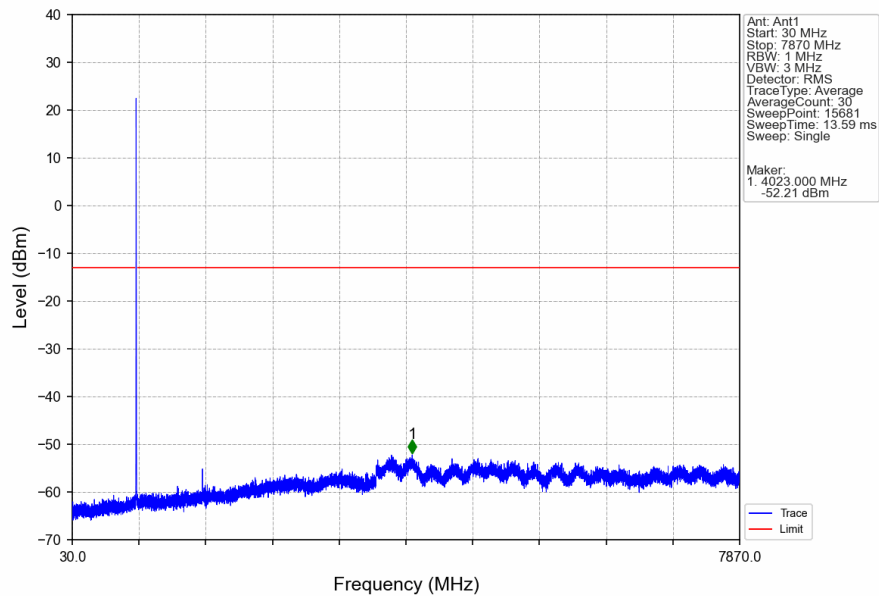


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

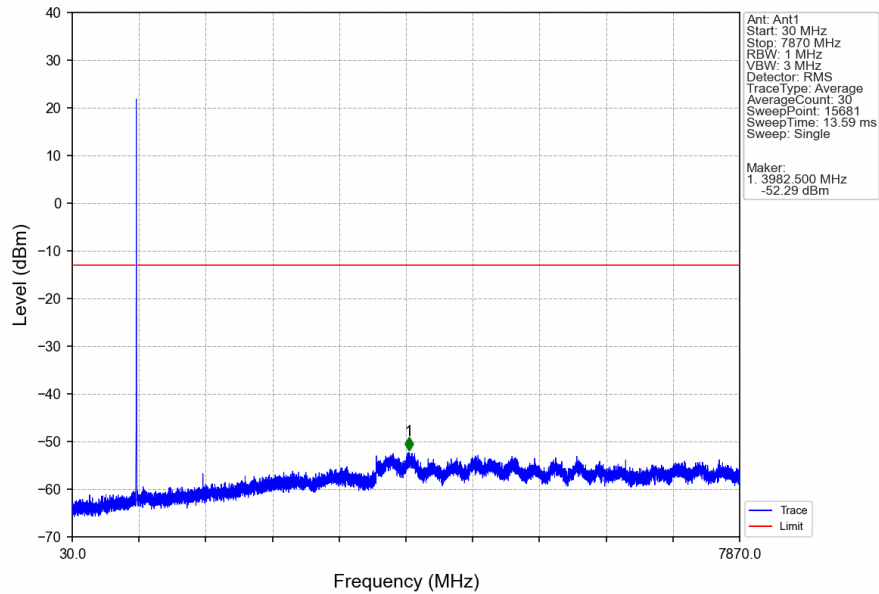


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.356	-71.85	-13	Pass
763	775	0.00625	CHP	2	774.976	-57.76	-35	Pass
775	776.9	0.1	CHP	3	776.845	-33.51	-13	Pass
776.9	777	0.03	CHP	4	777.000	-34.75	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

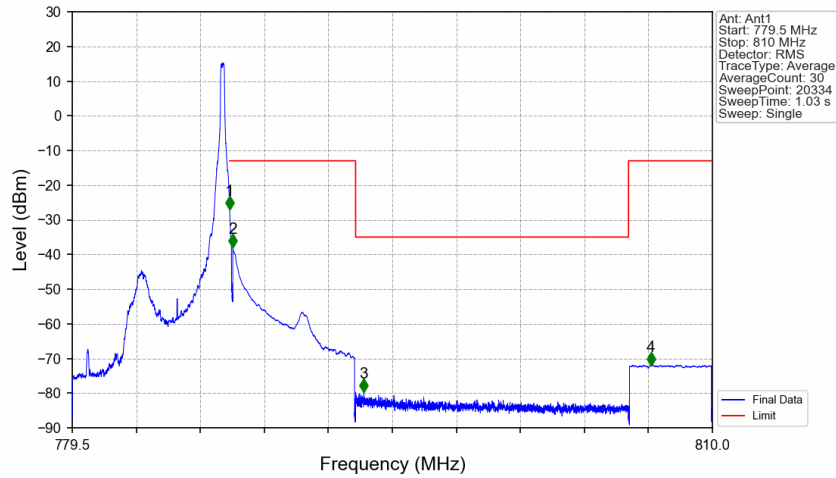
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

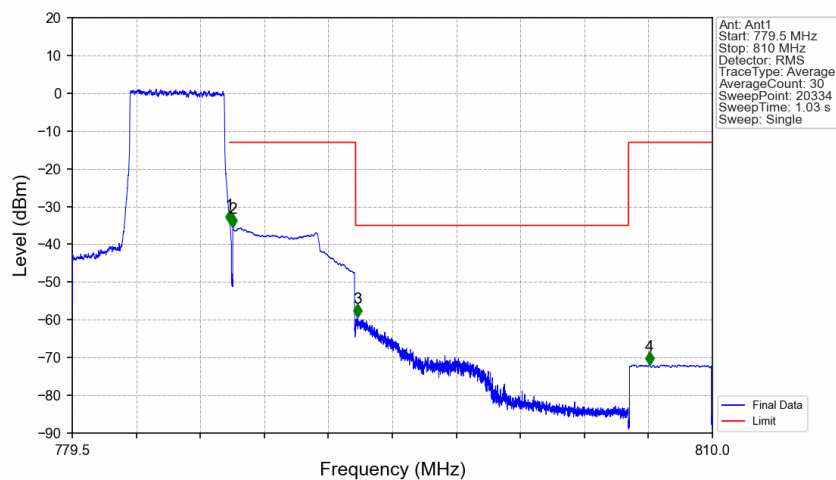


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



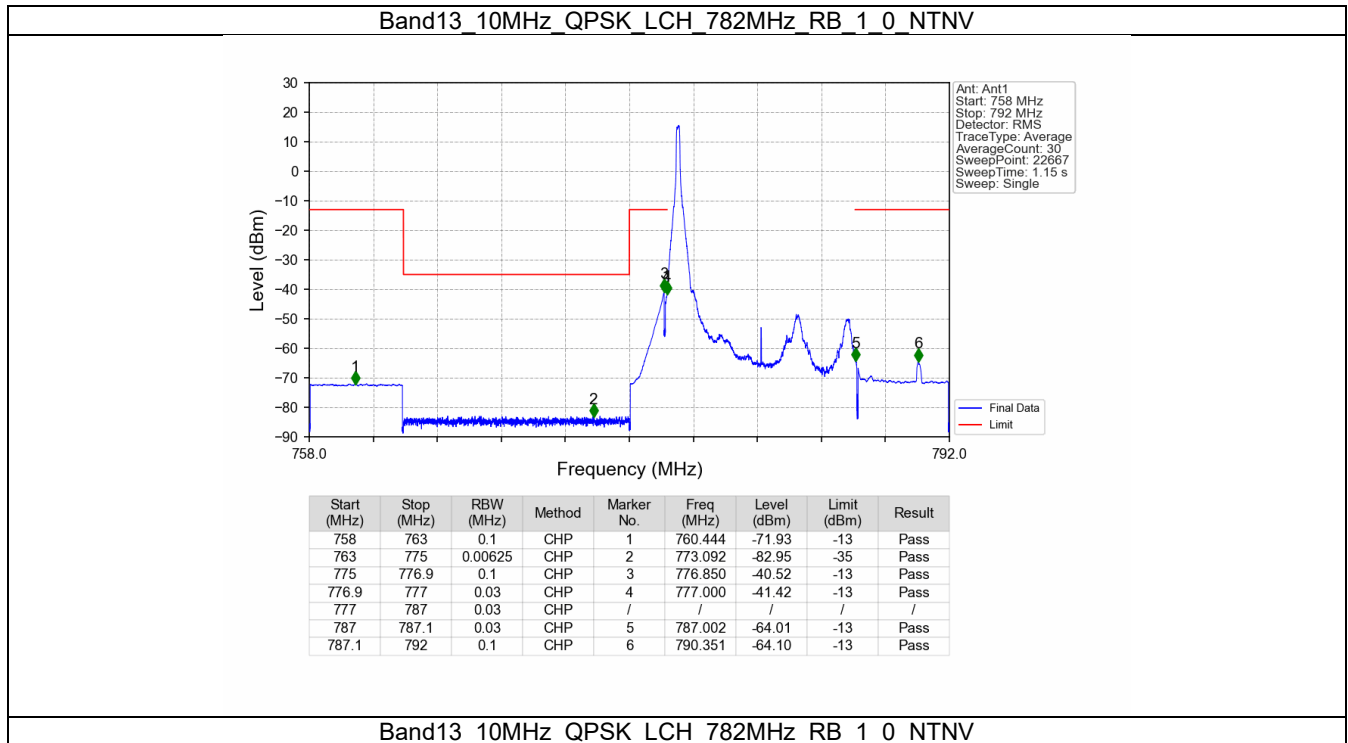
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-26.93	-13	Pass
787.1	793	0.1	CHP	2	787.150	-37.85	-13	Pass
793	806	0.00625	CHP	3	793.393	-79.65	-35	Pass
806	810	0.1	CHP	4	807.063	-71.93	-13	Pass

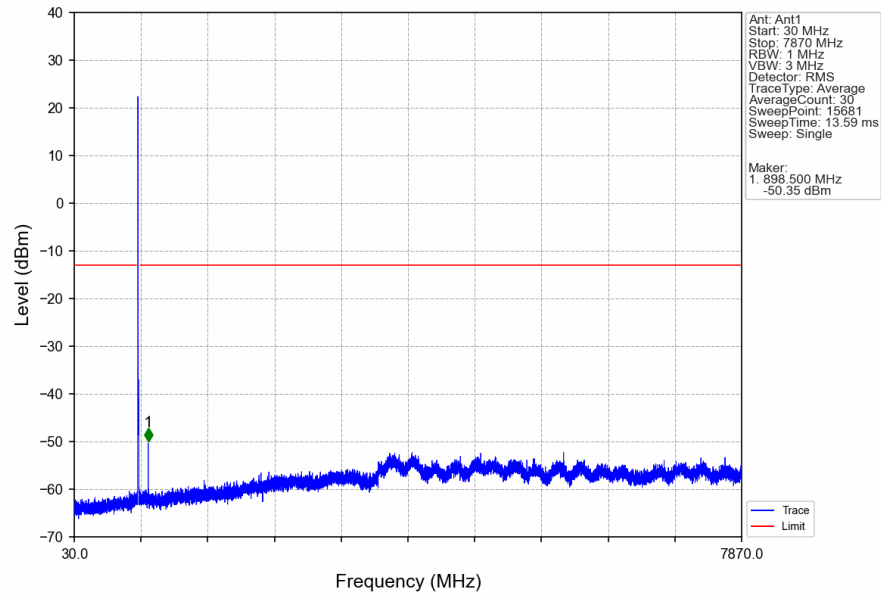
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



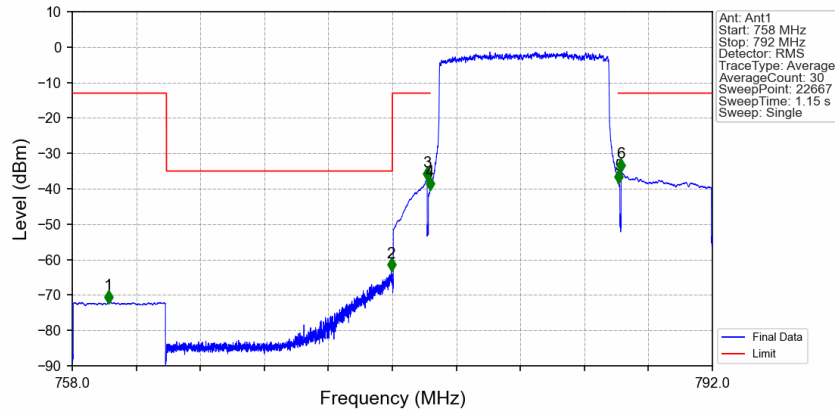
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-34.46	-13	Pass
787.1	793	0.1	CHP	2	787.150	-35.42	-13	Pass
793	806	0.00625	CHP	3	793.074	-59.25	-35	Pass
806	810	0.1	CHP	4	806.997	-71.94	-13	Pass

5.2.2 B13_10MHz



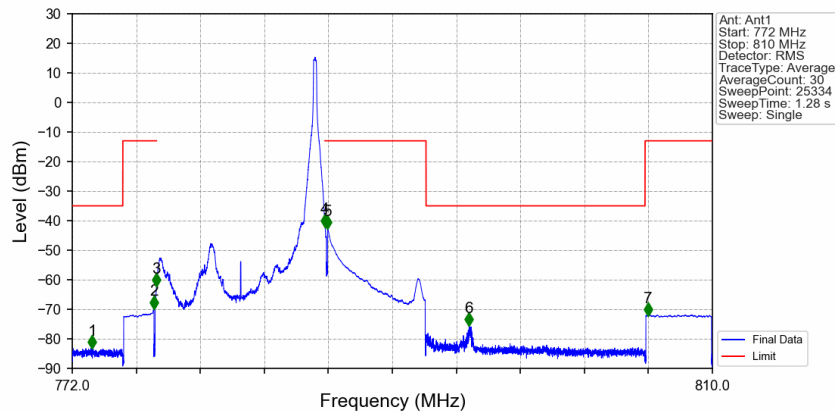


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



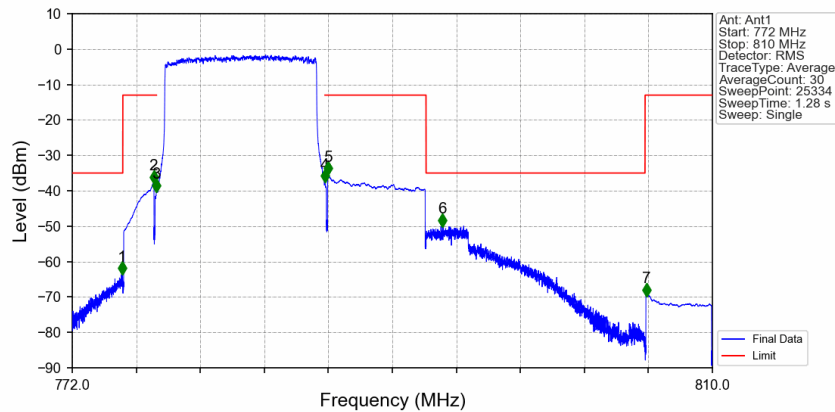
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.929	-72.03	-13	Pass
763	775	0.00625	CHP	2	774.941	-63.02	-35	Pass
775	776.9	0.1	CHP	3	776.832	-37.29	-13	Pass
776.9	777	0.03	CHP	4	776.995	-40.03	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.021	-38.21	-13	Pass
787.1	792	0.1	CHP	6	787.153	-34.86	-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	773.182	-83.05	-35	Pass
775	776.9	0.1	CHP	2	776.850	-69.48	-13	Pass
776.9	777	0.03	CHP	3	777.000	-61.89	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-41.82	-13	Pass
787.1	793	0.1	CHP	5	787.150	-42.51	-13	Pass
793	806	0.00625	CHP	6	795.556	-75.31	-35	Pass
806	810	0.1	CHP	7	806.196	-71.85	-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	-63.42	-35	Pass
775	776.9	0.1	CHP	2	776.832	-37.68	-13	Pass
776.9	777	0.03	CHP	3	776.995	-40.03	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-37.35	-13	Pass
787.1	793	0.1	CHP	5	787.162	-35.17	-13	Pass
793	806	0.00625	CHP	6	793.977	-49.85	-35	Pass
806	810	0.1	CHP	7	806.082	-69.52	-13	Pass



6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	782	50	0	20	3.27	777.520	786.528	777 to 787	Pass
					3.85	777.510	786.529	777 to 787	Pass
					4.43	777.487	786.526	777 to 787	Pass
				-30	3.85	777.523	786.533	777 to 787	Pass
				-20	3.85	777.503	786.532	777 to 787	Pass
				-10	3.85	777.490	786.506	777 to 787	Pass
				0	3.85	777.508	786.549	777 to 787	Pass
				10	3.85	777.494	786.539	777 to 787	Pass
				30	3.85	777.503	786.528	777 to 787	Pass
				40	3.85	777.526	786.520	777 to 787	Pass
				50	3.85	777.505	786.521	777 to 787	Pass

---End of Attachment---