



Appendix A.11

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	21.29	-0.10	19.04	<=34.77	Pass
			13	22.25	-0.10	20.00	<=34.77	Pass
			24	21.34	-0.10	19.09	<=34.77	Pass
		12	0	20.24	-0.10	17.99	<=34.77	Pass
			6	20.19	-0.10	17.94	<=34.77	Pass
			13	20.22	-0.10	17.97	<=34.77	Pass
		25	0	20.22	-0.10	17.97	<=34.77	Pass
	782	1	0	21.02	-0.10	18.77	<=34.77	Pass
			13	21.48	-0.10	19.23	<=34.77	Pass
			24	21.33	-0.10	19.08	<=34.77	Pass
		12	0	20.22	-0.10	17.97	<=34.77	Pass
			6	20.34	-0.10	18.09	<=34.77	Pass
			13	20.20	-0.10	17.95	<=34.77	Pass
		25	0	20.30	-0.10	18.05	<=34.77	Pass
	784.5	1	0	21.25	-0.10	19.00	<=34.77	Pass
			13	21.57	-0.10	19.32	<=34.77	Pass
			24	21.30	-0.10	19.05	<=34.77	Pass
		12	0	20.26	-0.10	18.01	<=34.77	Pass
			6	20.37	-0.10	18.12	<=34.77	Pass
			13	20.15	-0.10	17.90	<=34.77	Pass
		25	0	20.27	-0.10	18.02	<=34.77	Pass
16QAM	779.5	1	0	20.06	-0.10	17.81	<=34.77	Pass
			13	19.74	-0.10	17.49	<=34.77	Pass
			24	19.90	-0.10	17.65	<=34.77	Pass
		12	0	19.39	-0.10	17.14	<=34.77	Pass
			6	19.11	-0.10	16.86	<=34.77	Pass
			13	19.14	-0.10	16.89	<=34.77	Pass
		25	0	19.13	-0.10	16.88	<=34.77	Pass
	782	1	0	19.55	-0.10	17.30	<=34.77	Pass
			13	19.89	-0.10	17.64	<=34.77	Pass
			24	19.83	-0.10	17.58	<=34.77	Pass
		12	0	19.08	-0.10	16.83	<=34.77	Pass
			6	19.40	-0.10	17.15	<=34.77	Pass

			13	19.36	-0.10	17.11	<=34.77	Pass
		25	0	19.33	-0.10	17.08	<=34.77	Pass
	784.5	1	0	19.87	-0.10	17.62	<=34.77	Pass
			13	20.25	-0.10	18.00	<=34.77	Pass
			24	19.71	-0.10	17.46	<=34.77	Pass
			0	19.09	-0.10	16.84	<=34.77	Pass
		12	6	19.27	-0.10	17.02	<=34.77	Pass
			13	19.23	-0.10	16.98	<=34.77	Pass
			25	19.20	-0.10	16.95	<=34.77	Pass
		25	0	19.20	-0.10	16.95	<=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	21.04	-0.10	18.79	<=34.77	Pass
			25	22.37	-0.10	20.12	<=34.77	Pass
			49	21.32	-0.10	19.07	<=34.77	Pass
		25	0	20.29	-0.10	18.04	<=34.77	Pass
			13	20.35	-0.10	18.10	<=34.77	Pass
			25	20.22	-0.10	17.97	<=34.77	Pass
		50	0	20.19	-0.10	17.94	<=34.77	Pass
16QAM	782	1	0	19.95	-0.10	17.70	<=34.77	Pass
			25	20.30	-0.10	18.05	<=34.77	Pass
			49	19.88	-0.10	17.63	<=34.77	Pass
		25	0	19.30	-0.10	17.05	<=34.77	Pass
			13	19.28	-0.10	17.03	<=34.77	Pass
			25	19.30	-0.10	17.05	<=34.77	Pass
		50	0	19.24	-0.10	16.99	<=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	LV	0.200	0.0003	-2.5 to 2.5	Pass



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					NV	0.600	0.0008	-2.5 to 2.5	Pass
					HV	1.600	0.0020	-2.5 to 2.5	Pass
				-30	NV	1.600	0.0020	-2.5 to 2.5	Pass
				-20	NV	1.500	0.0019	-2.5 to 2.5	Pass
				-10	NV	0.500	0.0006	-2.5 to 2.5	Pass
				0	NV	0.400	0.0005	-2.5 to 2.5	Pass
				10	NV	-0.300	-0.0004	-2.5 to 2.5	Pass
				30	NV	0.800	0.0010	-2.5 to 2.5	Pass
				40	NV	-0.900	-0.0012	-2.5 to 2.5	Pass
				50	NV	0.600	0.0008	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

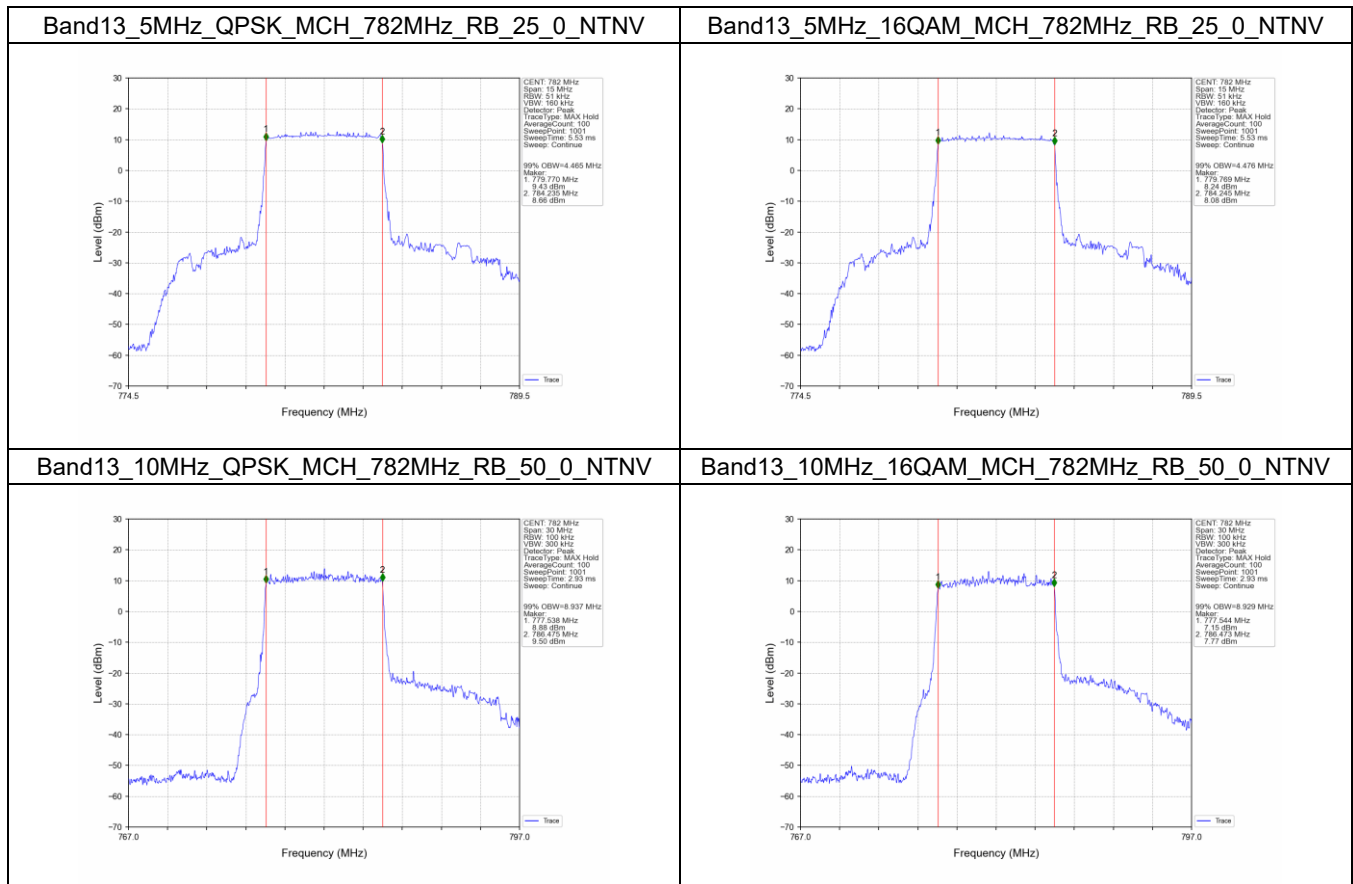
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.465	/	Pass
	16QAM	782	25	0	4.476	/	Pass
10	QPSK	782	50	0	8.937	/	Pass
	16QAM	782	50	0	8.929	/	Pass

3.1.2 Band13_XDB

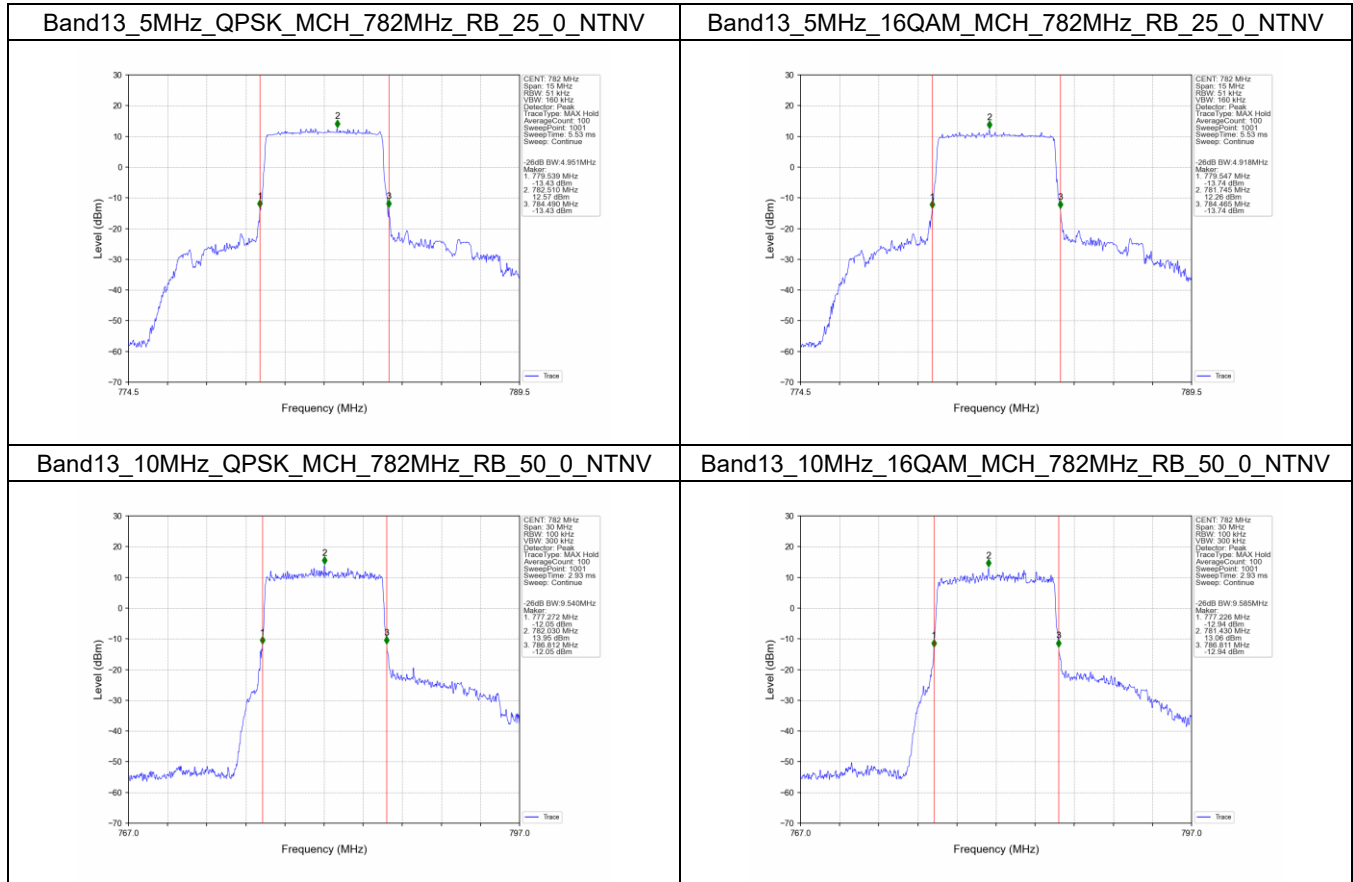
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.951	/	Pass
	16QAM	782	25	0	4.918	/	Pass
10	QPSK	782	50	0	9.540	/	Pass
	16QAM	782	50	0	9.585	/	Pass

3.2 Test Graph

3.2.1 Band13_OBW



3.2.2 Band13_XDB





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4. Peak-Average Ratio

4.1 Test Result

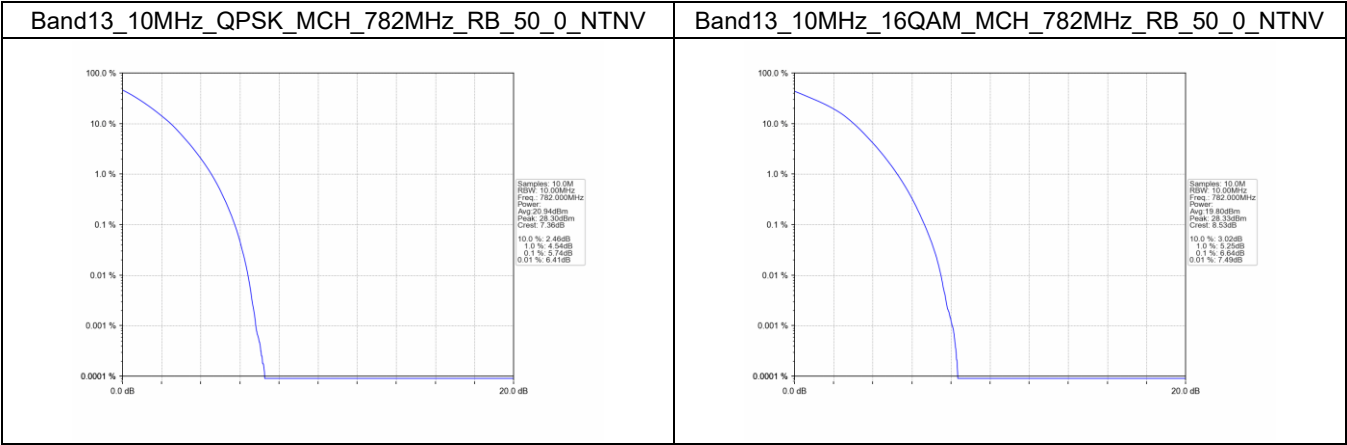
4.1.1 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.74	<=13	Pass
16QAM	782	50	0	6.64	<=13	Pass



4.2 Test Graph

4.2.1 B13_10MHz





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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

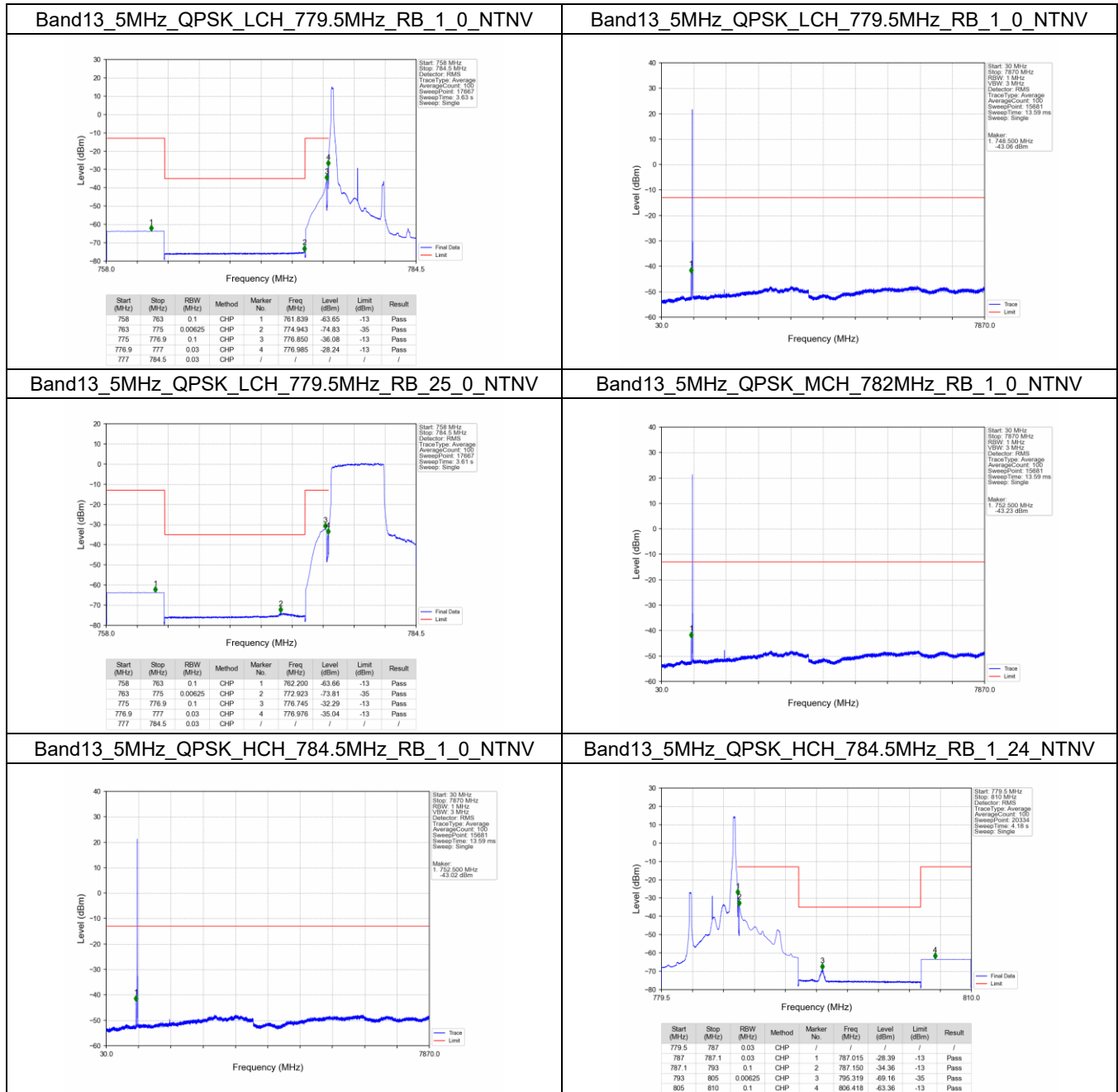
5.1.2 B13_10MHz

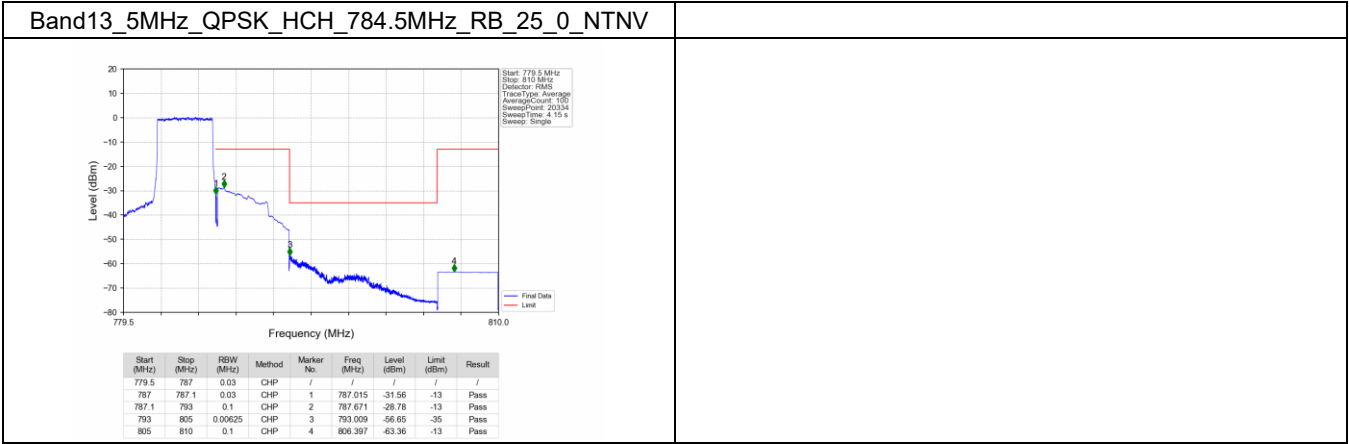
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



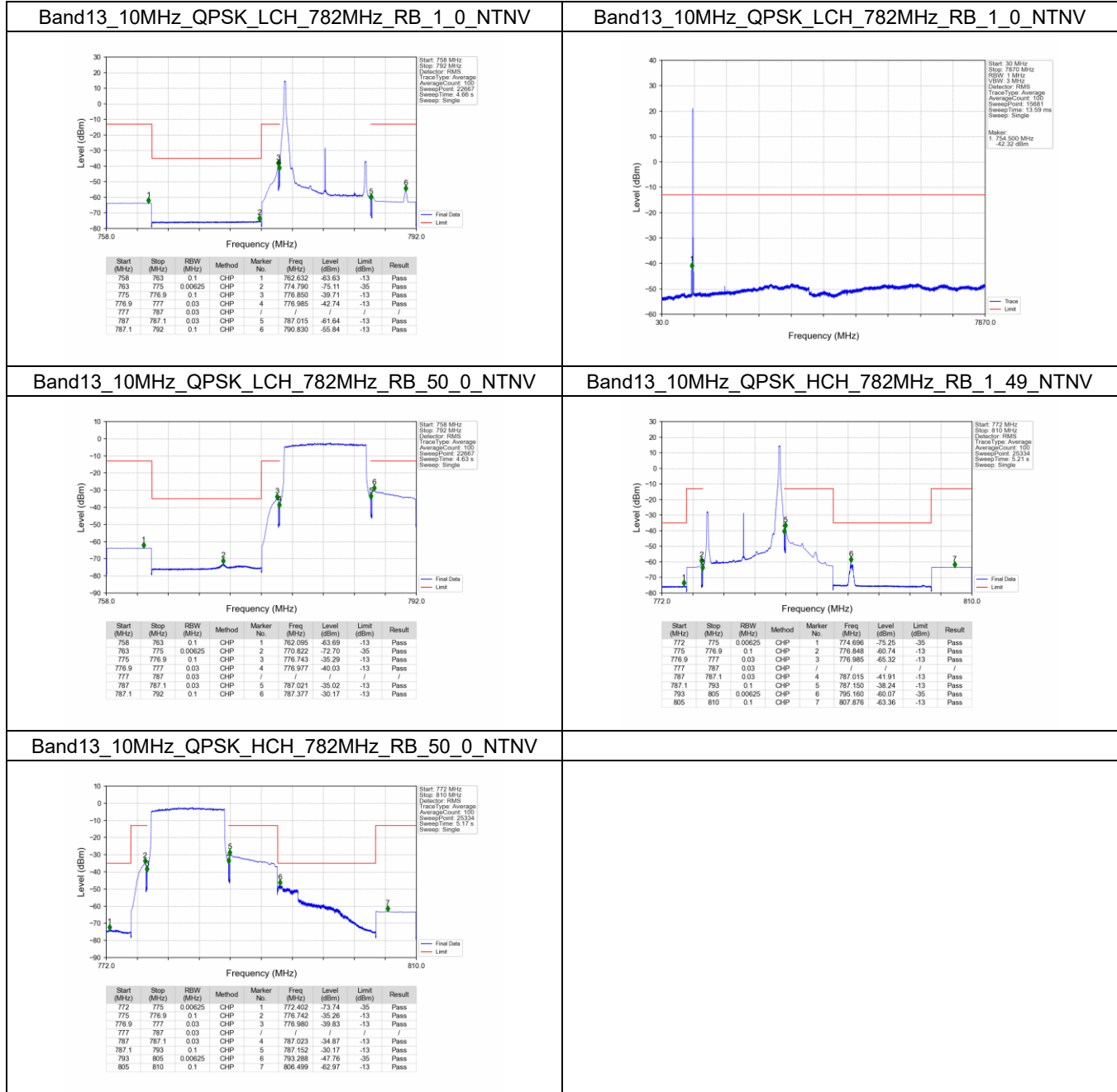
5.2 Test Graph

5.2.1 B13_5MHz





5.2.2 B13_10MHz





6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B13_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	782	50	0	20	LV	777.513	786.475	777 to 787	Pass
					NV	777.501	786.487	777 to 787	Pass
					HV	777.514	786.495	777 to 787	Pass
				-30	NV	777.507	786.493	777 to 787	Pass
				-20	NV	777.505	786.500	777 to 787	Pass
				-10	NV	777.503	786.493	777 to 787	Pass
				0	NV	777.502	786.497	777 to 787	Pass
				10	NV	777.504	786.498	777 to 787	Pass
				30	NV	777.517	786.489	777 to 787	Pass
				40	NV	777.510	786.501	777 to 787	Pass
				50	NV	777.507	786.492	777 to 787	Pass

---End of Attachment---