

**Appendix A.12****1. Effective (Isotropic) Radiated Power Output Data****1.1 Test Result****1.1.1 B17_5MHz_ERP**

Band: 17 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	706.5	1	0	21.17	0.60	19.62	<=34.77	Pass
			13	21.40	0.60	19.85	<=34.77	Pass
			24	21.19	0.60	19.64	<=34.77	Pass
		12	0	20.60	0.60	19.05	<=34.77	Pass
			6	20.58	0.60	19.03	<=34.77	Pass
			13	20.62	0.60	19.07	<=34.77	Pass
		25	0	20.62	0.60	19.07	<=34.77	Pass
	710	1	0	21.61	0.60	20.06	<=34.77	Pass
			13	21.39	0.60	19.84	<=34.77	Pass
			24	21.40	0.60	19.85	<=34.77	Pass
		12	0	20.67	0.60	19.12	<=34.77	Pass
			6	20.61	0.60	19.06	<=34.77	Pass
			13	20.55	0.60	19.00	<=34.77	Pass
		25	0	20.60	0.60	19.05	<=34.77	Pass
	713.5	1	0	21.41	0.60	19.86	<=34.77	Pass
			13	21.38	0.60	19.83	<=34.77	Pass
			24	21.33	0.60	19.78	<=34.77	Pass
		12	0	20.45	0.60	18.90	<=34.77	Pass
			6	20.46	0.60	18.91	<=34.77	Pass
			13	20.37	0.60	18.82	<=34.77	Pass
		25	0	20.46	0.60	18.91	<=34.77	Pass
16QAM	706.5	1	0	21.02	0.60	19.47	<=34.77	Pass
			13	21.32	0.60	19.77	<=34.77	Pass
			24	21.11	0.60	19.56	<=34.77	Pass
		12	0	19.64	0.60	18.09	<=34.77	Pass
			6	19.66	0.60	18.11	<=34.77	Pass
			13	19.62	0.60	18.07	<=34.77	Pass
		25	0	19.54	0.60	17.99	<=34.77	Pass
	710	1	0	19.86	0.60	18.31	<=34.77	Pass
			13	20.68	0.60	19.13	<=34.77	Pass
			24	20.11	0.60	18.56	<=34.77	Pass
		12	0	19.58	0.60	18.03	<=34.77	Pass
			6	19.70	0.60	18.15	<=34.77	Pass



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			13	19.62	0.60	18.07	<=34.77	Pass
		25	0	19.61	0.60	18.06	<=34.77	Pass
	713.5	1	0	20.27	0.60	18.72	<=34.77	Pass
			13	20.29	0.60	18.74	<=34.77	Pass
			24	20.16	0.60	18.61	<=34.77	Pass
			0	19.15	0.60	17.60	<=34.77	Pass
	12		6	19.17	0.60	17.62	<=34.77	Pass
			13	19.30	0.60	17.75	<=34.77	Pass
			0	19.32	0.60	17.77	<=34.77	Pass
	25		0	19.32	0.60	17.77	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	21.62	0.60	20.07	<=34.77	Pass
			25	21.99	0.60	20.44	<=34.77	Pass
			49	21.66	0.60	20.11	<=34.77	Pass
		25	0	20.69	0.60	19.14	<=34.77	Pass
			13	20.74	0.60	19.19	<=34.77	Pass
			25	20.75	0.60	19.20	<=34.77	Pass
		50	0	20.66	0.60	19.11	<=34.77	Pass
	710	1	0	21.30	0.60	19.75	<=34.77	Pass
			25	21.92	0.60	20.37	<=34.77	Pass
			49	21.17	0.60	19.62	<=34.77	Pass
		25	0	20.53	0.60	18.98	<=34.77	Pass
			13	20.50	0.60	18.95	<=34.77	Pass
			25	20.53	0.60	18.98	<=34.77	Pass
		50	0	20.47	0.60	18.92	<=34.77	Pass
	711	1	0	21.48	0.60	19.93	<=34.77	Pass
			25	21.63	0.60	20.08	<=34.77	Pass
			49	21.45	0.60	19.90	<=34.77	Pass
		25	0	20.58	0.60	19.03	<=34.77	Pass
			13	20.52	0.60	18.97	<=34.77	Pass
			25	20.55	0.60	19.00	<=34.77	Pass
		50	0	20.57	0.60	19.02	<=34.77	Pass
16QAM	709	1	0	20.81	0.60	19.26	<=34.77	Pass
			25	20.78	0.60	19.23	<=34.77	Pass
			49	20.34	0.60	18.79	<=34.77	Pass
		25	0	19.81	0.60	18.26	<=34.77	Pass
			13	19.88	0.60	18.33	<=34.77	Pass
			25	19.87	0.60	18.32	<=34.77	Pass



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	710	50	0	19.62	0.60	18.07	<=34.77	Pass
		1	0	20.68	0.60	19.13	<=34.77	Pass
			25	21.05	0.60	19.50	<=34.77	Pass
			49	21.10	0.60	19.55	<=34.77	Pass
		25	0	19.72	0.60	18.17	<=34.77	Pass
			13	19.80	0.60	18.25	<=34.77	Pass
			25	19.38	0.60	17.83	<=34.77	Pass
		50	0	19.34	0.60	17.79	<=34.77	Pass
	711	1	0	20.92	0.60	19.37	<=34.77	Pass
			25	20.87	0.60	19.32	<=34.77	Pass
			49	20.77	0.60	19.22	<=34.77	Pass
		25	0	19.67	0.60	18.12	<=34.77	Pass
			13	19.75	0.60	18.20	<=34.77	Pass
			25	19.56	0.60	18.01	<=34.77	Pass
		50	0	19.77	0.60	18.22	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	710	50	0	20	LV	1.101	0.0016	-2.5 to 2.5	Pass
					NV	1.173	0.0017	-2.5 to 2.5	Pass
					HV	1.788	0.0025	-2.5 to 2.5	Pass
				-30	NV	1.316	0.0019	-2.5 to 2.5	Pass
				-20	NV	1.130	0.0016	-2.5 to 2.5	Pass
				-10	NV	0.830	0.0012	-2.5 to 2.5	Pass
				0	NV	0.758	0.0011	-2.5 to 2.5	Pass
				10	NV	0.772	0.0011	-2.5 to 2.5	Pass
				30	NV	0.958	0.0013	-2.5 to 2.5	Pass
				40	NV	0.443	0.0006	-2.5 to 2.5	Pass
				50	NV	-0.257	-0.0004	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result



3.1.1 Band17_OBW

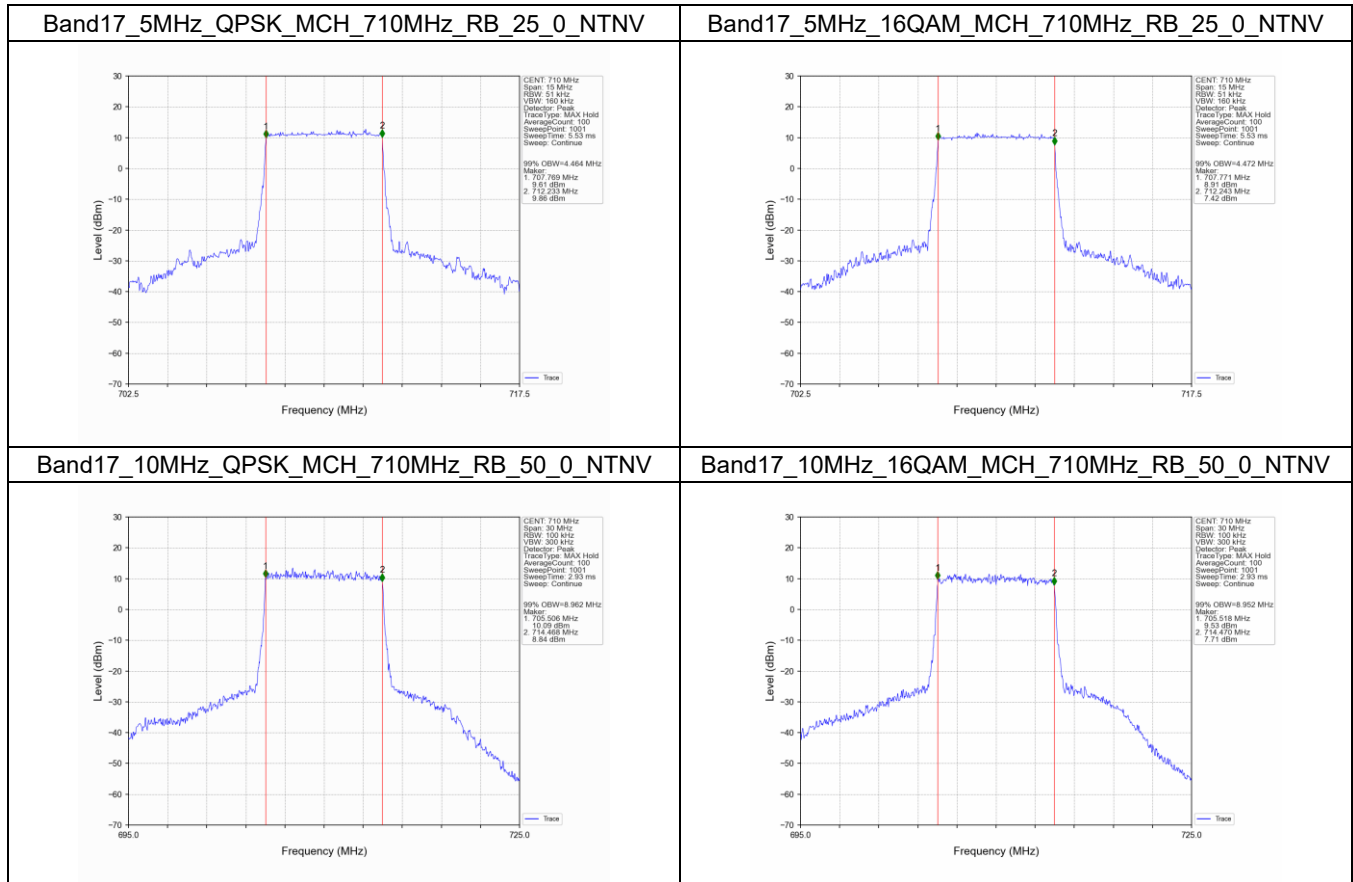
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.464	/	Pass
	16QAM	710	25	0	4.472	/	Pass
10	QPSK	710	50	0	8.962	/	Pass
	16QAM	710	50	0	8.952	/	Pass

3.1.2 Band17_XDB

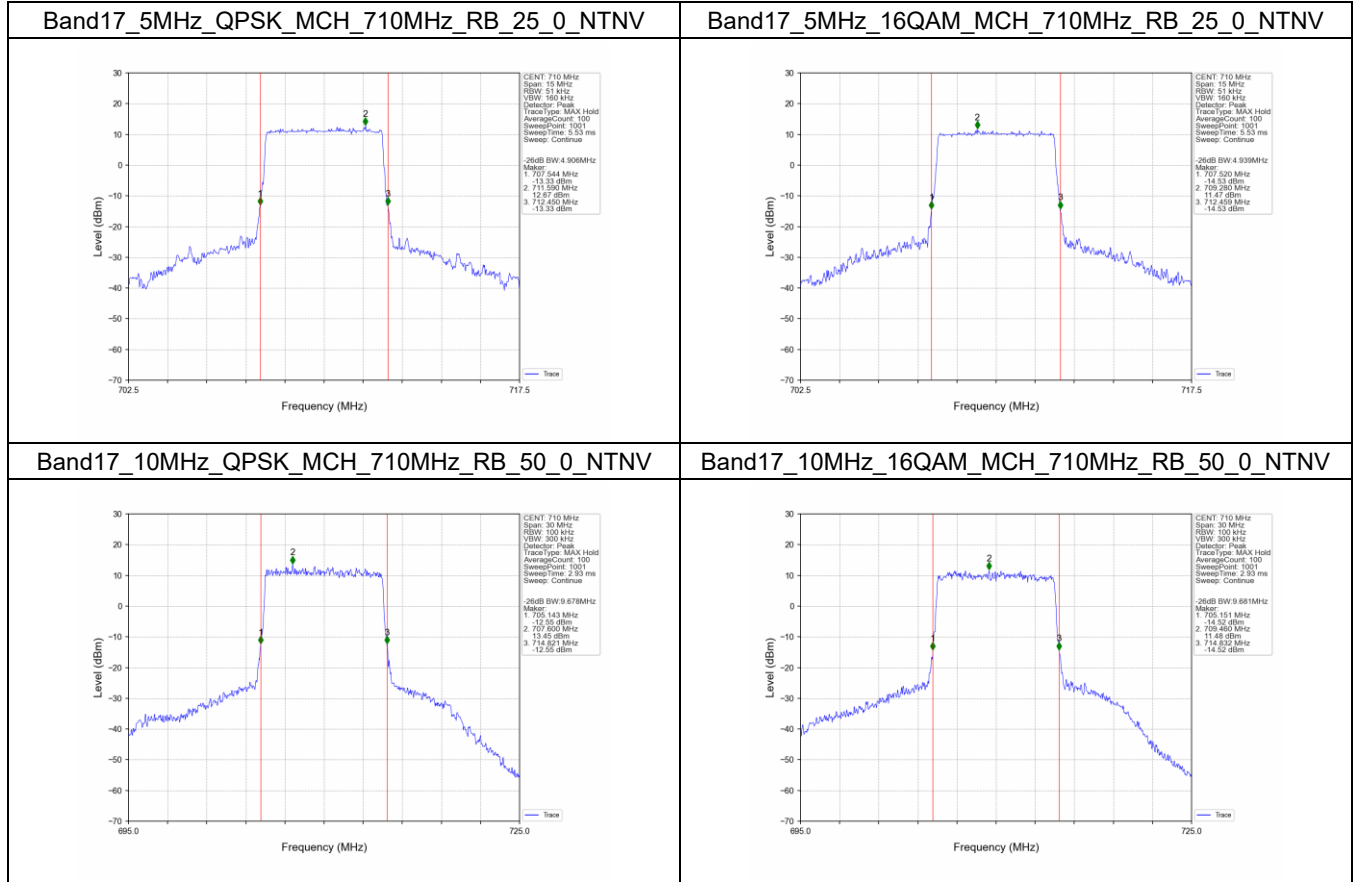
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.906	/	Pass
	16QAM	710	25	0	4.939	/	Pass
10	QPSK	710	50	0	9.678	/	Pass
	16QAM	710	50	0	9.681	/	Pass

3.2 Test Graph

3.2.1 Band17_OBW



3.2.2 Band17_XDB





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4. Peak-Average Ratio

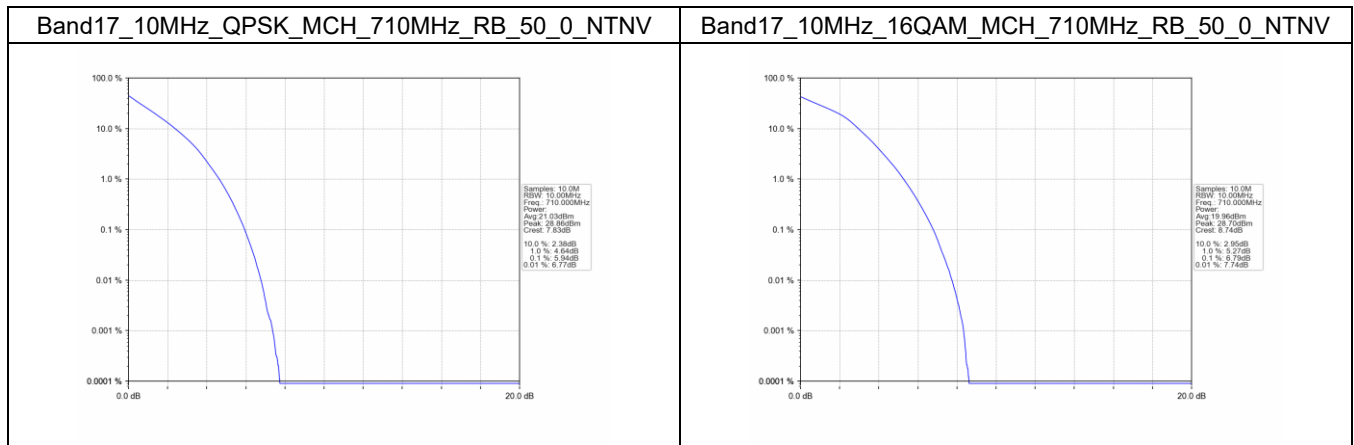
4.1 Test Result

4.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	5.94	<=13	Pass
16QAM	710	50	0	6.79	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

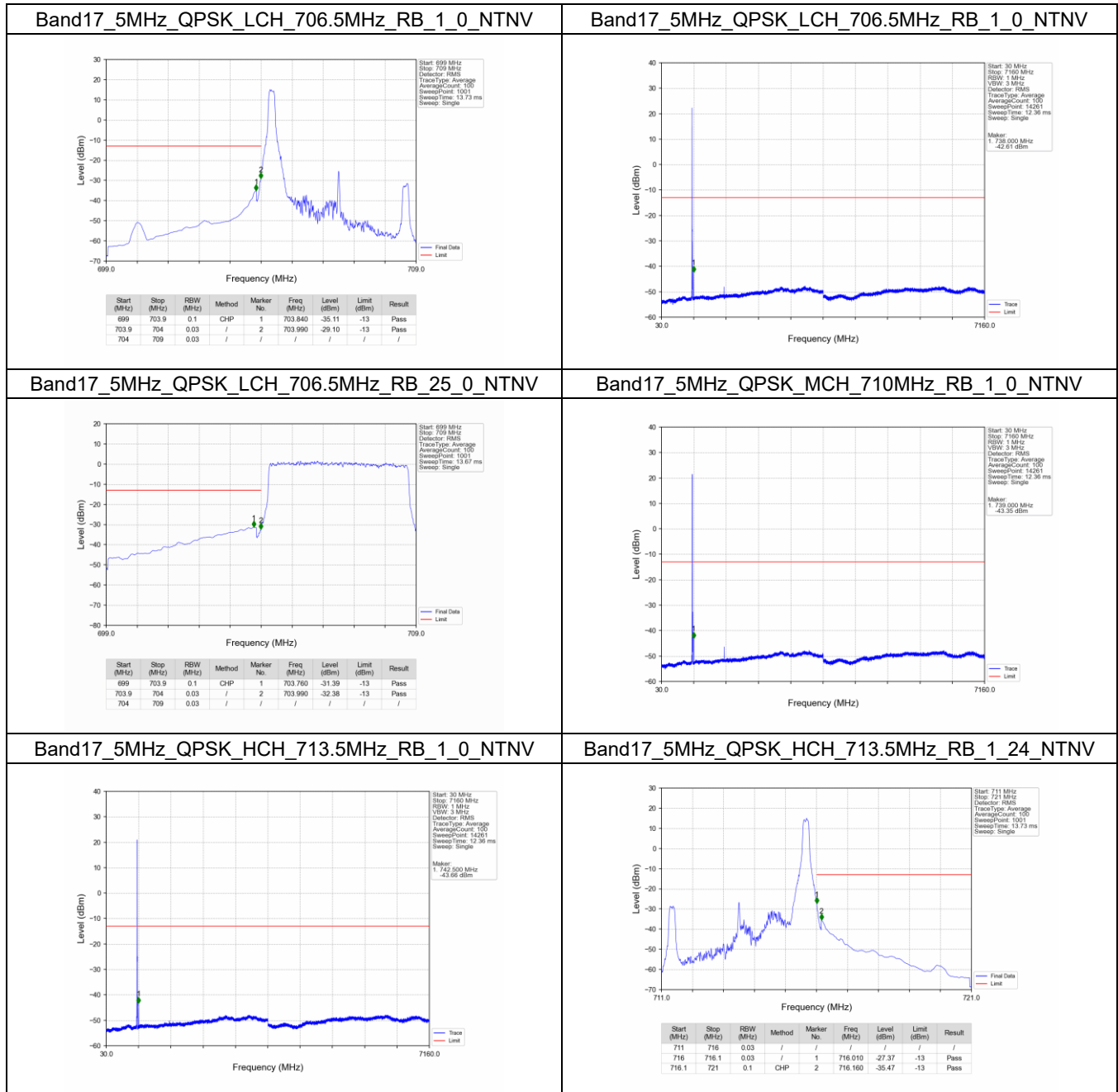
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

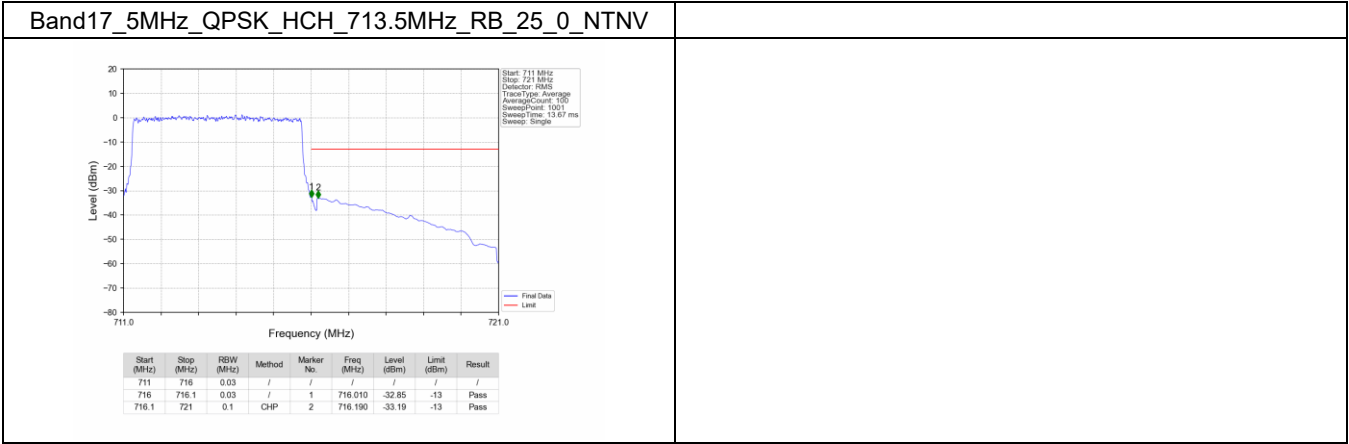
5.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

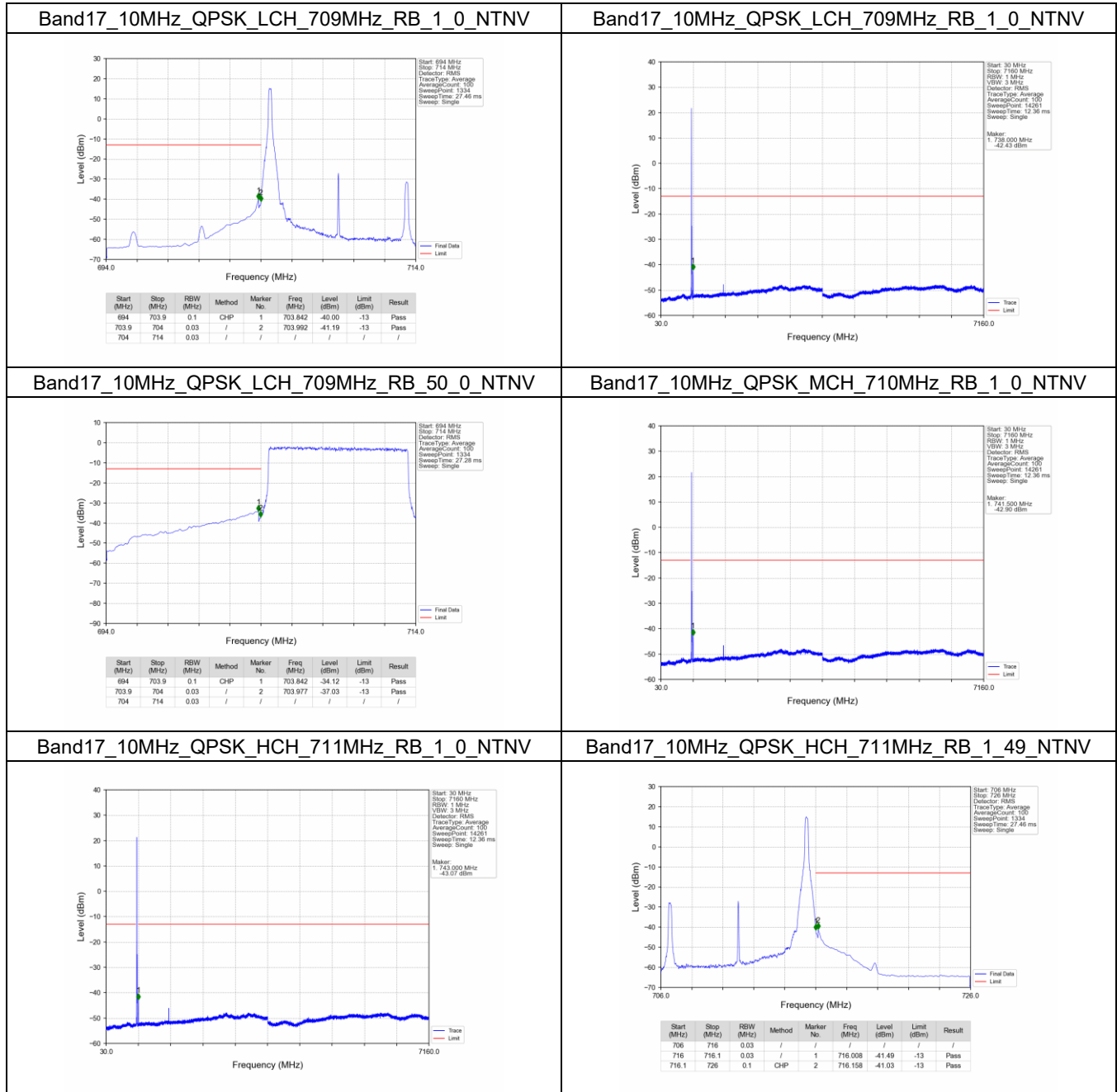
5.2 Test Graph

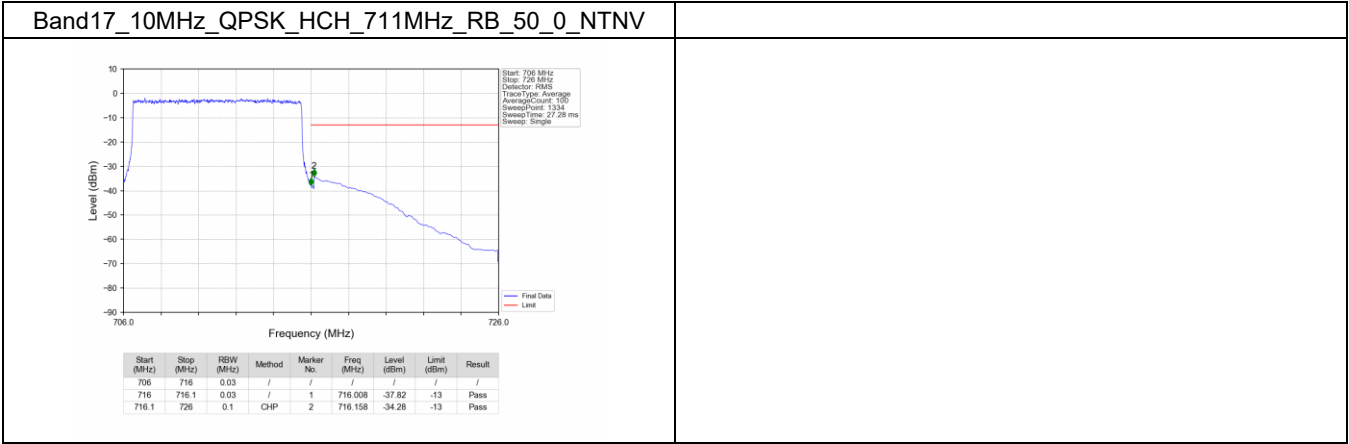
5.2.1 B17_5MHz





5.2.2 B17_10MHz







6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	710	50	0	20	LV	705.462	714.460	704 to 716	Pass
					NV	705.482	714.456	704 to 716	Pass
					HV	705.485	714.463	704 to 716	Pass
				-30	NV	705.471	714.464	704 to 716	Pass
				-20	NV	705.456	714.465	704 to 716	Pass
				-10	NV	705.460	714.460	704 to 716	Pass
				0	NV	705.462	714.460	704 to 716	Pass
				10	NV	705.460	714.459	704 to 716	Pass
				30	NV	705.459	714.459	704 to 716	Pass
				40	NV	705.463	714.462	704 to 716	Pass
				50	NV	705.457	714.463	704 to 716	Pass

---End of Attachment---