

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP

Band: 17 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	706.5	1	0	22.35	-10.20	10.00	<=34.77	Pass
			13	22.55	-10.20	10.20	<=34.77	Pass
			24	22.18	-10.20	9.83	<=34.77	Pass
		12	0	21.54	-10.20	9.19	<=34.77	Pass
			6	21.55	-10.20	9.20	<=34.77	Pass
			13	21.44	-10.20	9.09	<=34.77	Pass
		25	0	21.48	-10.20	9.13	<=34.77	Pass
	710	1	0	22.65	-10.20	10.30	<=34.77	Pass
			13	22.40	-10.20	10.05	<=34.77	Pass
			24	22.39	-10.20	10.04	<=34.77	Pass
		12	0	21.56	-10.20	9.21	<=34.77	Pass
			6	21.45	-10.20	9.10	<=34.77	Pass
			13	21.41	-10.20	9.06	<=34.77	Pass
		25	0	21.49	-10.20	9.14	<=34.77	Pass
	713.5	1	0	22.27	-10.20	9.92	<=34.77	Pass
			13	22.17	-10.20	9.82	<=34.77	Pass
			24	21.88	-10.20	9.53	<=34.77	Pass
		12	0	21.28	-10.20	8.93	<=34.77	Pass
			6	21.24	-10.20	8.89	<=34.77	Pass
			13	21.20	-10.20	8.85	<=34.77	Pass
		25	0	21.24	-10.20	8.89	<=34.77	Pass
16QAM	706.5	1	0	21.55	-10.20	9.20	<=34.77	Pass
			13	21.76	-10.20	9.41	<=34.77	Pass
			24	21.42	-10.20	9.07	<=34.77	Pass
		12	0	20.65	-10.20	8.30	<=34.77	Pass
			6	20.68	-10.20	8.33	<=34.77	Pass
			13	20.58	-10.20	8.23	<=34.77	Pass
		25	0	20.63	-10.20	8.28	<=34.77	Pass
	710	1	0	21.75	-10.20	9.40	<=34.77	Pass
			13	21.55	-10.20	9.20	<=34.77	Pass
			24	21.50	-10.20	9.15	<=34.77	Pass
		12	0	20.56	-10.20	8.21	<=34.77	Pass
			6	20.46	-10.20	8.11	<=34.77	Pass
			13	20.42	-10.20	8.07	<=34.77	Pass
		25	0	20.50	-10.20	8.15	<=34.77	Pass
	713.5	1	0	21.53	-10.20	9.18	<=34.77	Pass
			13	21.46	-10.20	9.11	<=34.77	Pass
			24	21.20	-10.20	8.85	<=34.77	Pass
		12	0	20.30	-10.20	7.95	<=34.77	Pass
			6	20.25	-10.20	7.90	<=34.77	Pass
			13	20.21	-10.20	7.86	<=34.77	Pass
		25	0	20.30	-10.20	7.95	<=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	22.66	-10.20	10.31	<=34.77	Pass
			25	22.46	-10.20	10.11	<=34.77	Pass
			49	22.35	-10.20	10.00	<=34.77	Pass
		25	0	21.75	-10.20	9.40	<=34.77	Pass
			13	21.55	-10.20	9.20	<=34.77	Pass
			25	21.41	-10.20	9.06	<=34.77	Pass
		50	0	21.70	-10.20	9.35	<=34.77	Pass
	710	1	0	22.95	-10.20	10.60	<=34.77	Pass
			25	22.49	-10.20	10.14	<=34.77	Pass
			49	22.31	-10.20	9.96	<=34.77	Pass
		25	0	21.83	-10.20	9.48	<=34.77	Pass
			13	21.43	-10.20	9.08	<=34.77	Pass
			25	21.49	-10.20	9.14	<=34.77	Pass
		50	0	21.65	-10.20	9.30	<=34.77	Pass
	711	1	0	23.00	-10.20	10.65	<=34.77	Pass
			25	22.43	-10.20	10.08	<=34.77	Pass
			49	22.24	-10.20	9.89	<=34.77	Pass
		25	0	21.70	-10.20	9.35	<=34.77	Pass
			13	21.51	-10.20	9.16	<=34.77	Pass
			25	21.45	-10.20	9.10	<=34.77	Pass
		50	0	21.59	-10.20	9.24	<=34.77	Pass
16QAM	709	1	0	21.98	-10.20	9.63	<=34.77	Pass
			25	21.83	-10.20	9.48	<=34.77	Pass
			49	21.51	-10.20	9.16	<=34.77	Pass
		12	0	21.90	-10.20	9.55	<=34.77	Pass
			19	21.66	-10.20	9.31	<=34.77	Pass
			38	21.50	-10.20	9.15	<=34.77	Pass
		27	0	20.79	-10.20	8.44	<=34.77	Pass
	710	1	0	21.95	-10.20	9.60	<=34.77	Pass
			25	21.54	-10.20	9.19	<=34.77	Pass
			49	21.35	-10.20	9.00	<=34.77	Pass
		12	0	21.99	-10.20	9.64	<=34.77	Pass
			19	21.50	-10.20	9.15	<=34.77	Pass
			38	21.46	-10.20	9.11	<=34.77	Pass
		27	0	20.84	-10.20	8.49	<=34.77	Pass
	711	1	0	21.83	-10.20	9.48	<=34.77	Pass
			25	21.26	-10.20	8.91	<=34.77	Pass
			49	21.11	-10.20	8.76	<=34.77	Pass
		12	0	21.93	-10.20	9.58	<=34.77	Pass
			19	21.52	-10.20	9.17	<=34.77	Pass
			38	21.45	-10.20	9.10	<=34.77	Pass
		27	23	20.51	-10.20	8.16	<=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	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	710	50	0	20	LV	-1.202	-0.0017	-2.5 to 2.5	Pass
					NV	-0.958	-0.0013	-2.5 to 2.5	Pass
					HV	-0.215	-0.0003	-2.5 to 2.5	Pass
				-30	NV	-0.472	-0.0007	-2.5 to 2.5	Pass
				-20	NV	-0.329	-0.0005	-2.5 to 2.5	Pass
				-10	NV	-0.229	-0.0003	-2.5 to 2.5	Pass
				0	NV	-0.372	-0.0005	-2.5 to 2.5	Pass
				10	NV	-0.043	-0.0001	-2.5 to 2.5	Pass
				30	NV	-0.157	-0.0002	-2.5 to 2.5	Pass
				40	NV	-0.014	0.0000	-2.5 to 2.5	Pass
				50	NV	-0.129	-0.0002	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

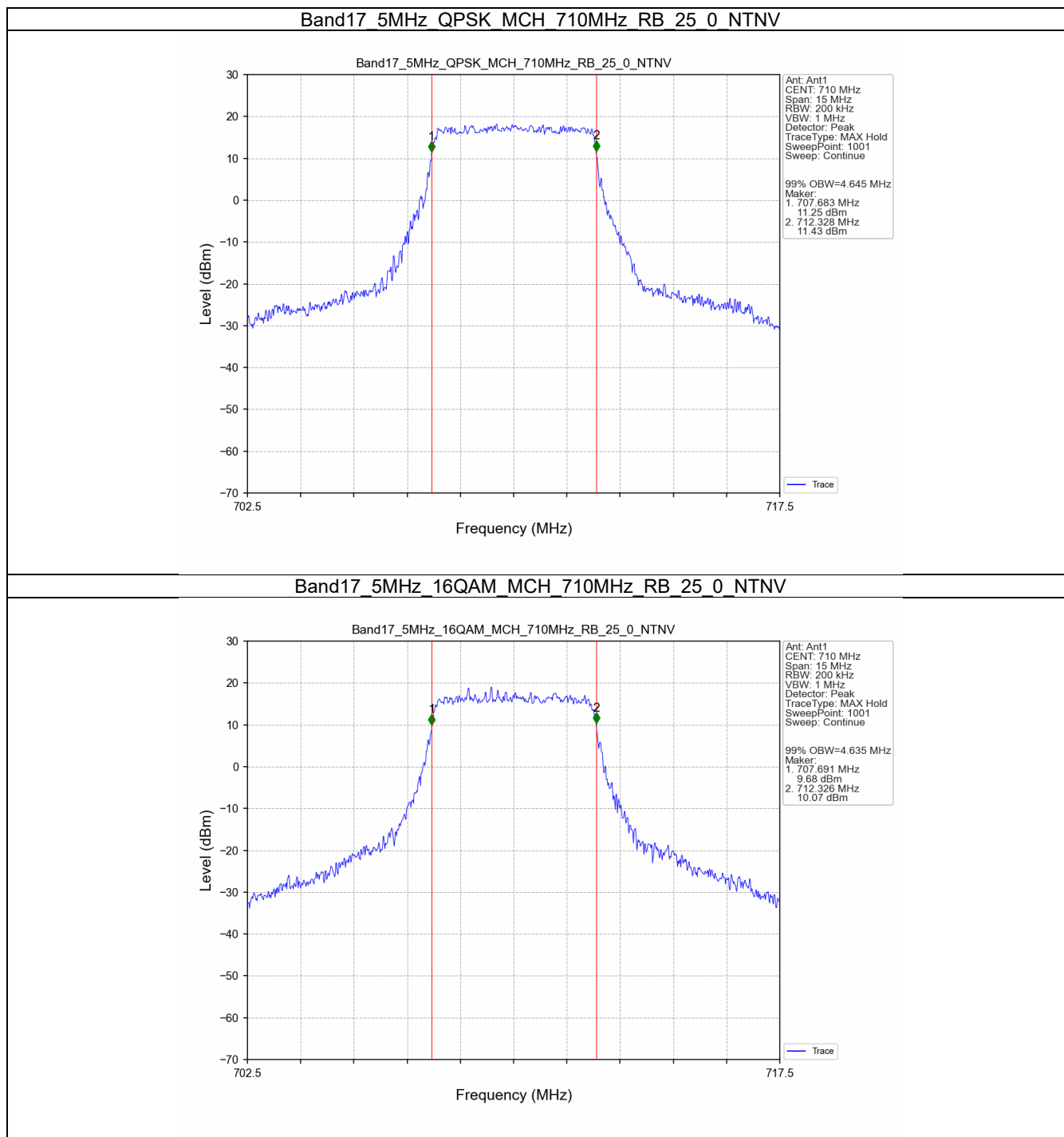
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.645	/	Pass
	16QAM	710	25	0	4.635	/	Pass
10	QPSK	710	50	0	9.070	/	Pass
	16QAM	710	27	0	5.054	/	Pass

3.1.2 Band17_XDB

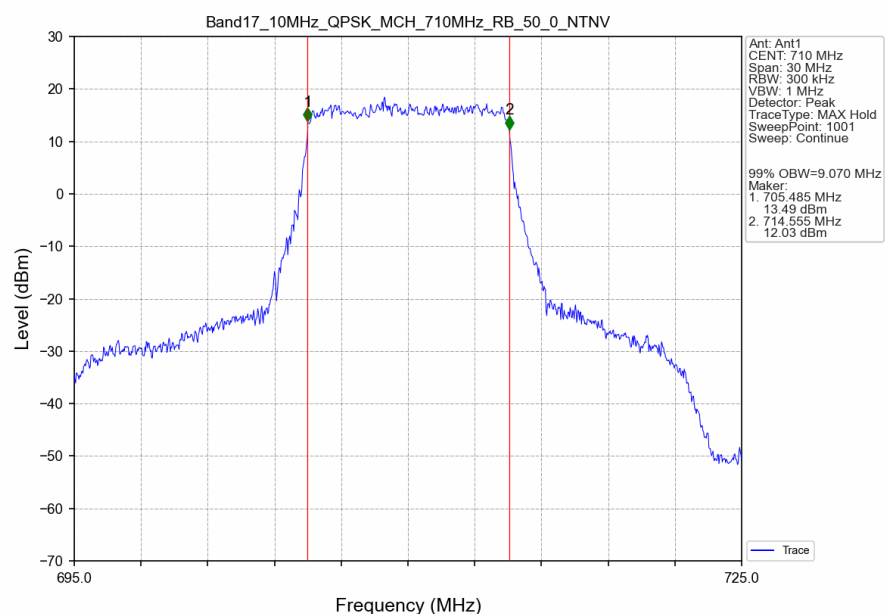
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	5.968	/	Pass
	16QAM	710	25	0	5.714	/	Pass
10	QPSK	710	50	0	10.527	/	Pass
	16QAM	710	27	0	6.567	/	Pass

3.2 Test Graph

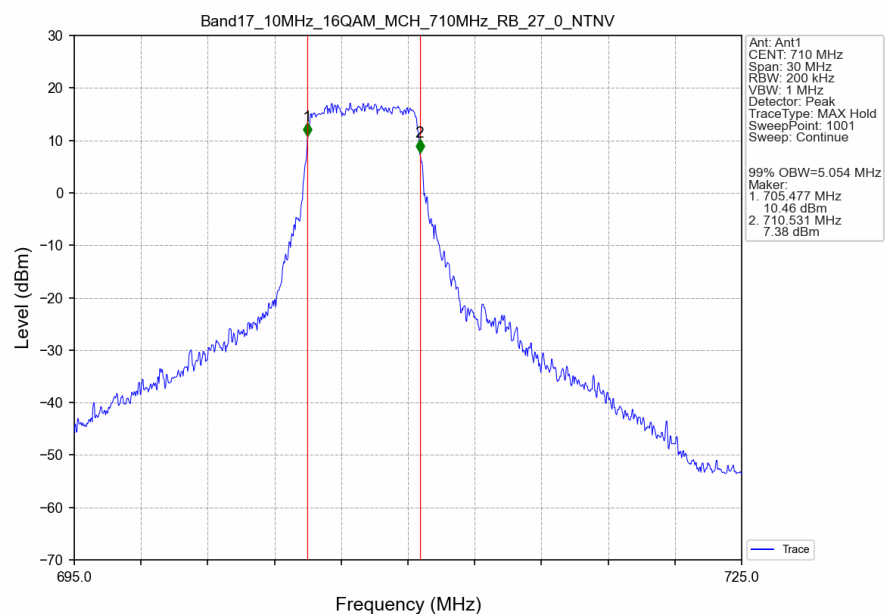
3.2.1 Band17_OBW



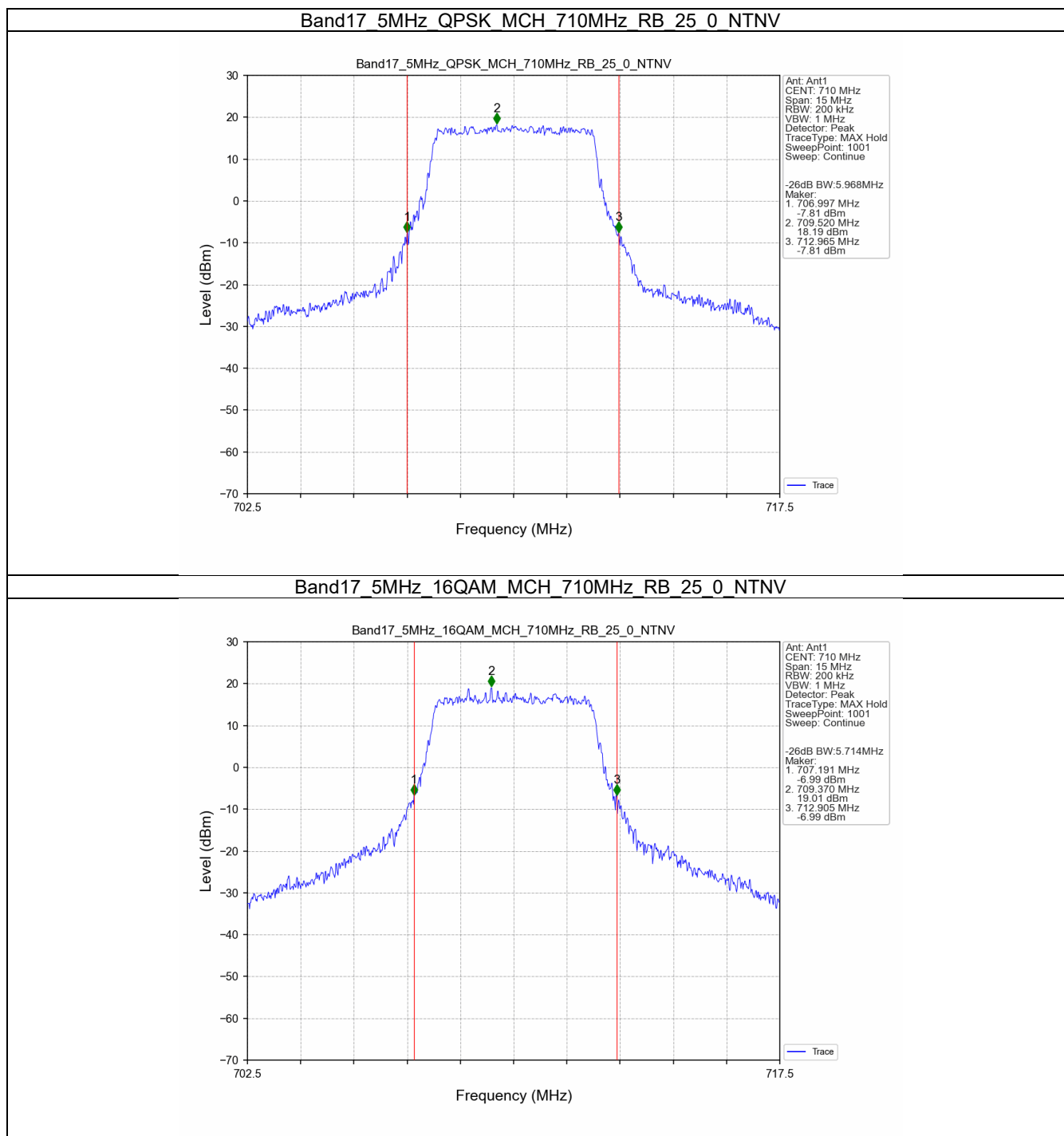
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



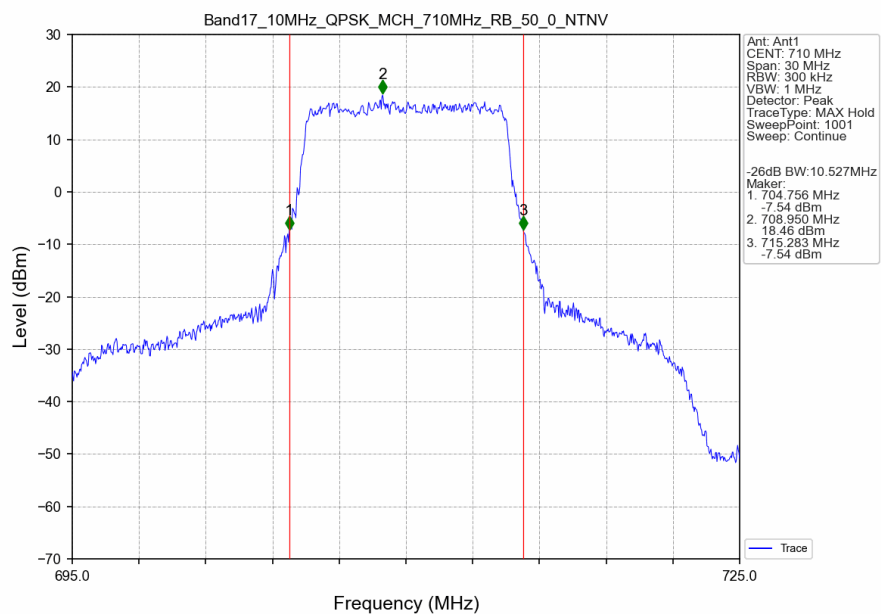
Band17_10MHz_16QAM_MCH_710MHz_RB_27_0_NTNV



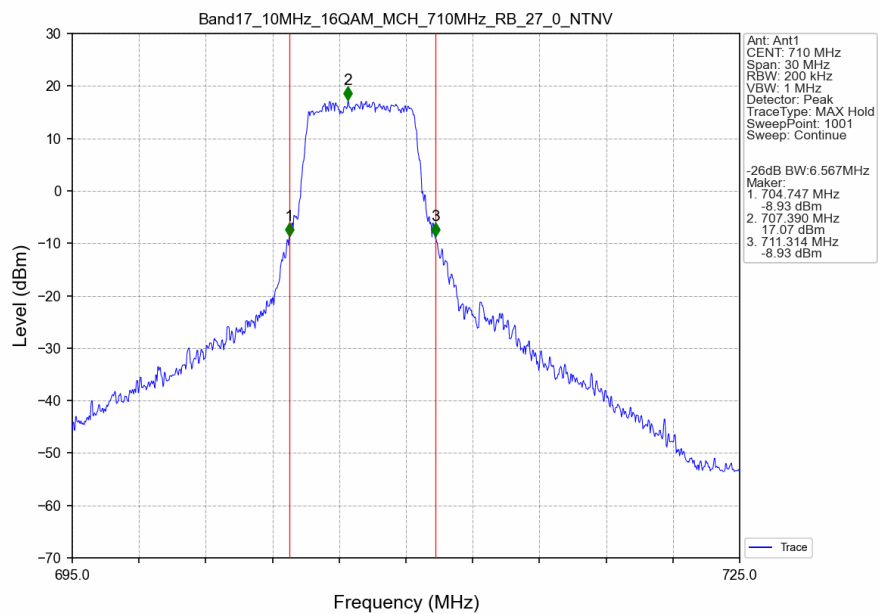
3.2.2 Band17_XDB



Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_27_0_NTNV





4. Peak-Average Ratio

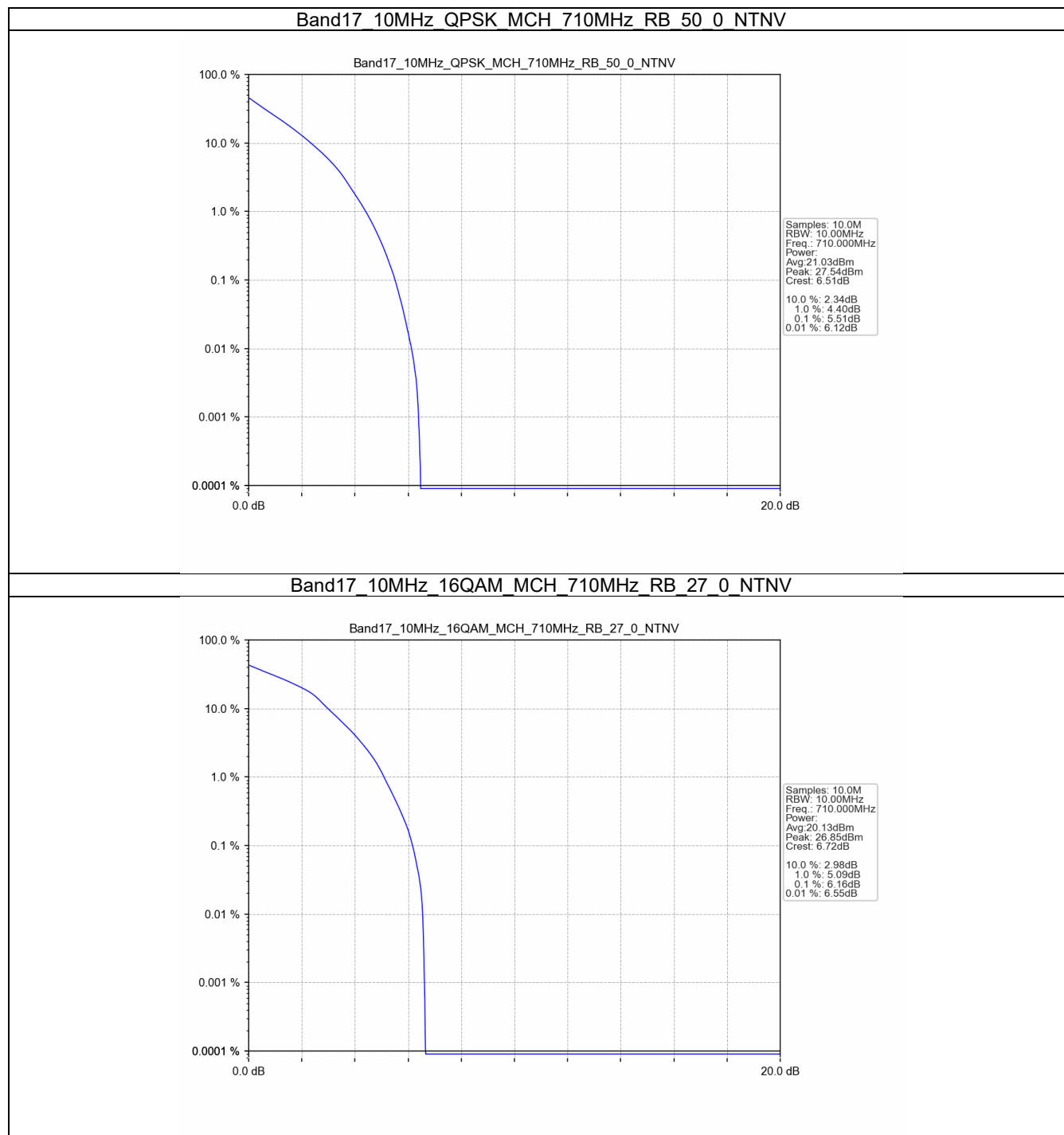
4.1 Test Result

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	5.51	<=13	Pass
16QAM	710	27	0	6.16	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

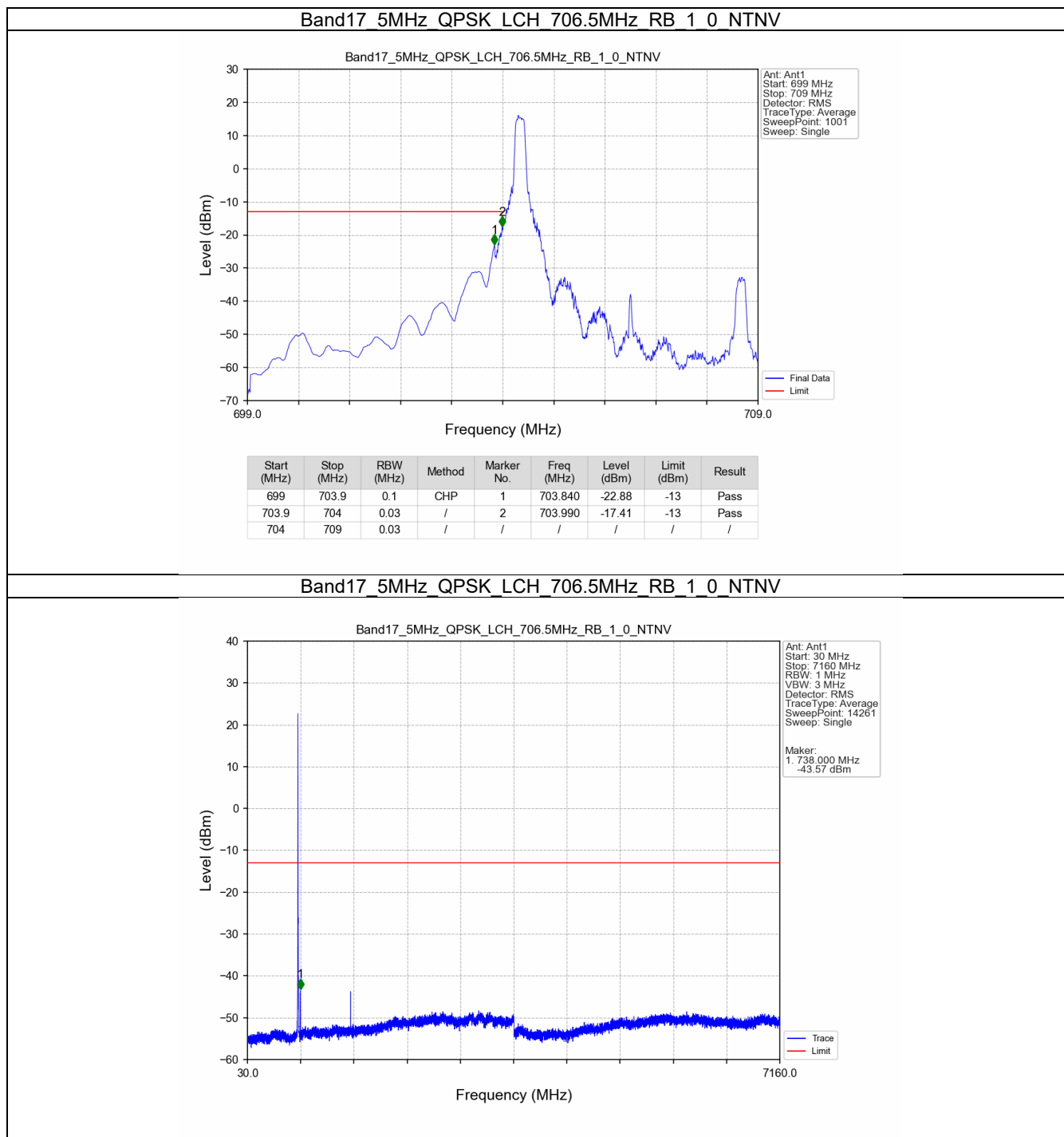
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B17_10MHz

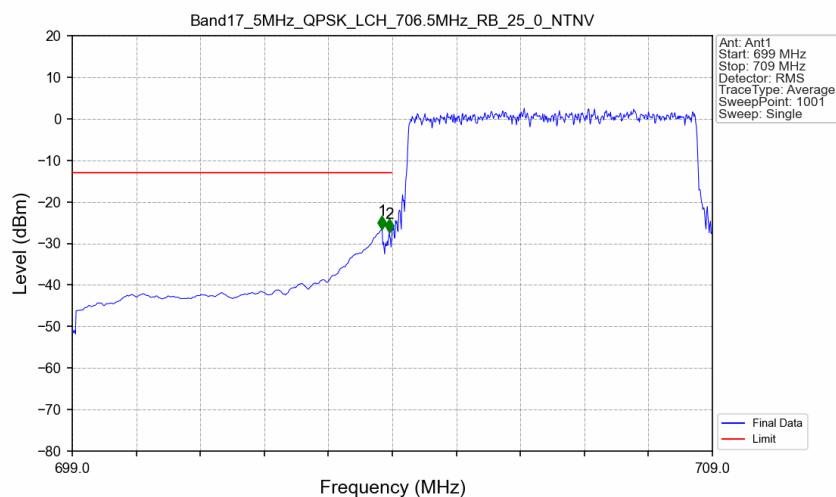
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

5.2 Test Graph

5.2.1 B17_5MHz

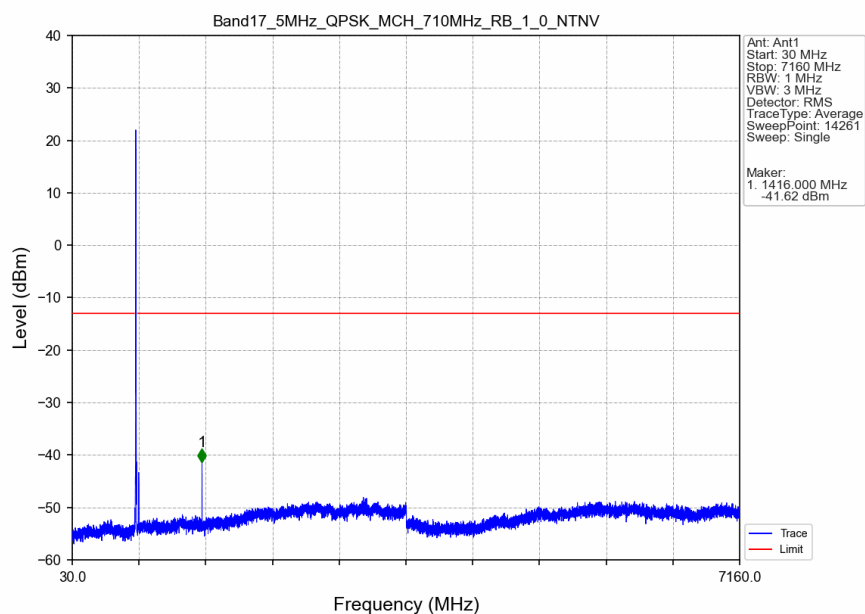


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

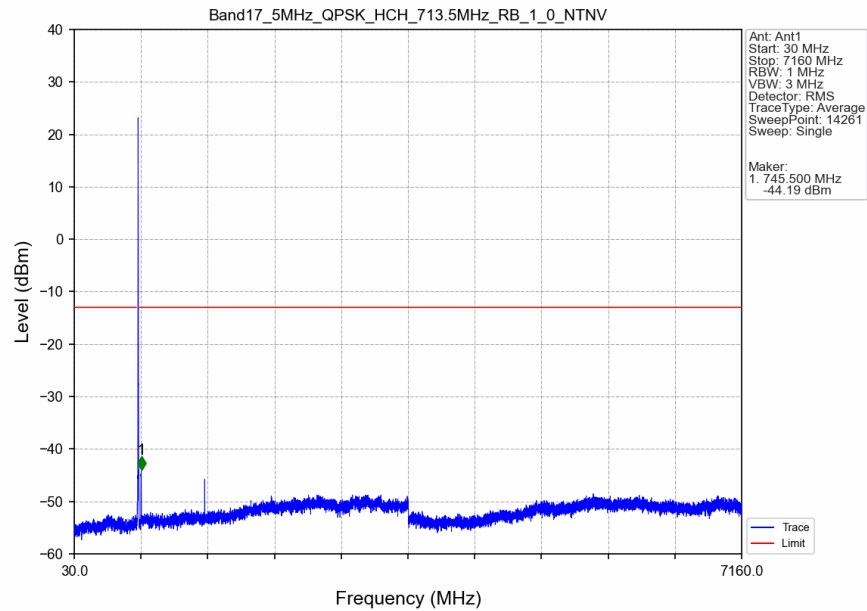


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-26.56	-13	Pass
703.9	704	0.03	/	2	703.950	-27.34	-13	Pass
704	709	0.03	/	/	/	/	/	/

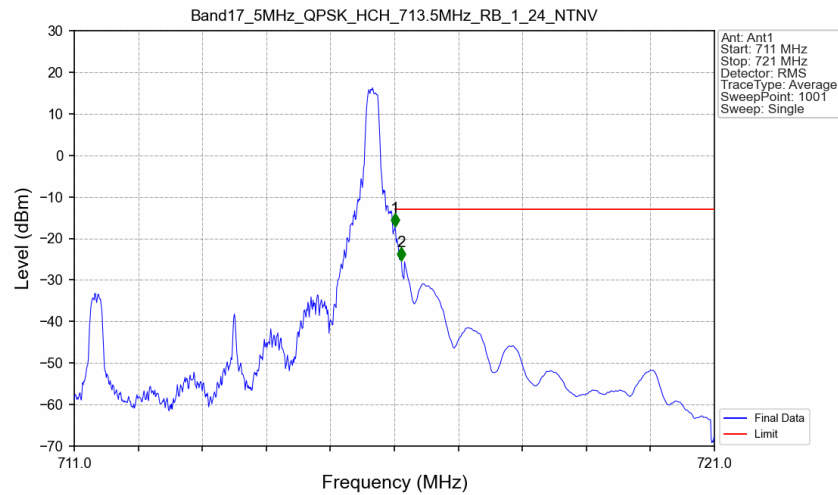
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

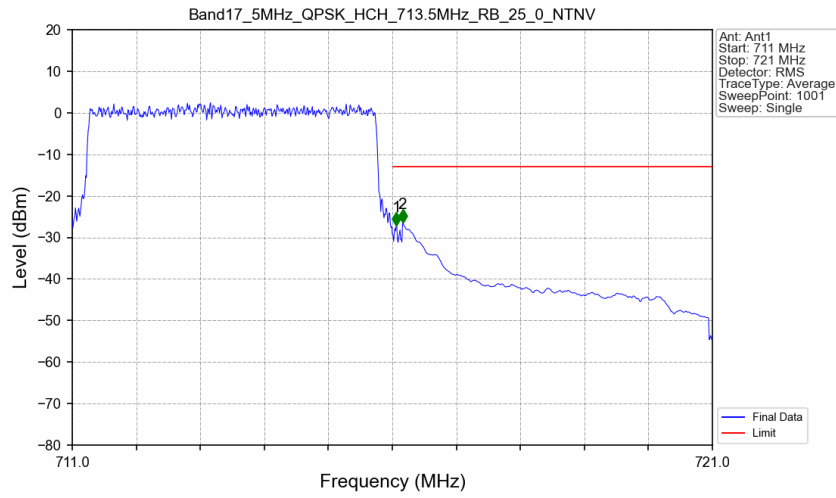


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-17.18	-13	Pass
716.1	721	0.1	CHP	2	716.110	-25.31	-13	Pass

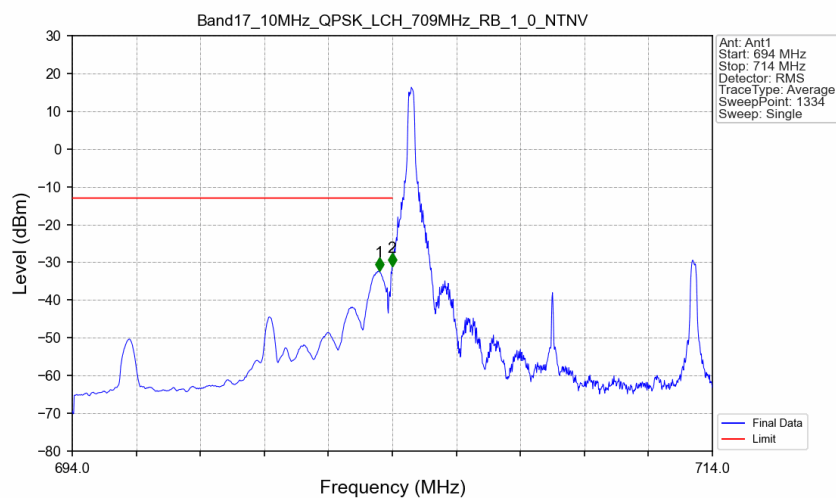
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.060	-27.11	-13	Pass
716.1	721	0.1	CHP	2	716.160	-26.41	-13	Pass

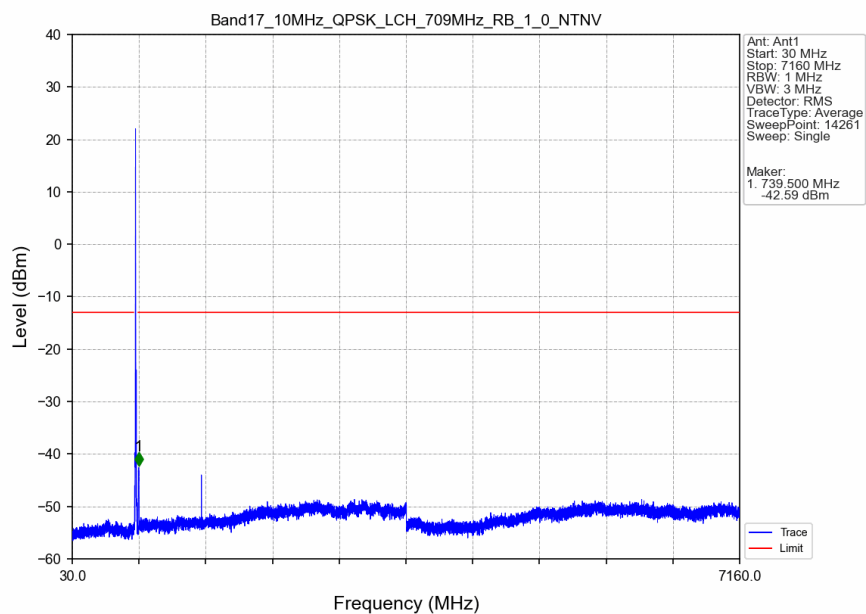
5.2.2 B17_10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

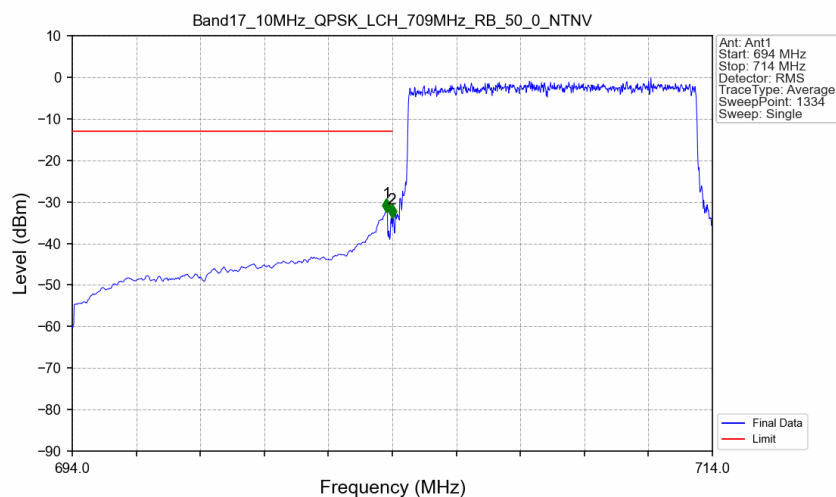


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.587	-32.23	-13	Pass
703.9	704	0.03	/	2	703.992	-31.12	-13	Pass
704	714	0.03	/	/	/	/	/	/

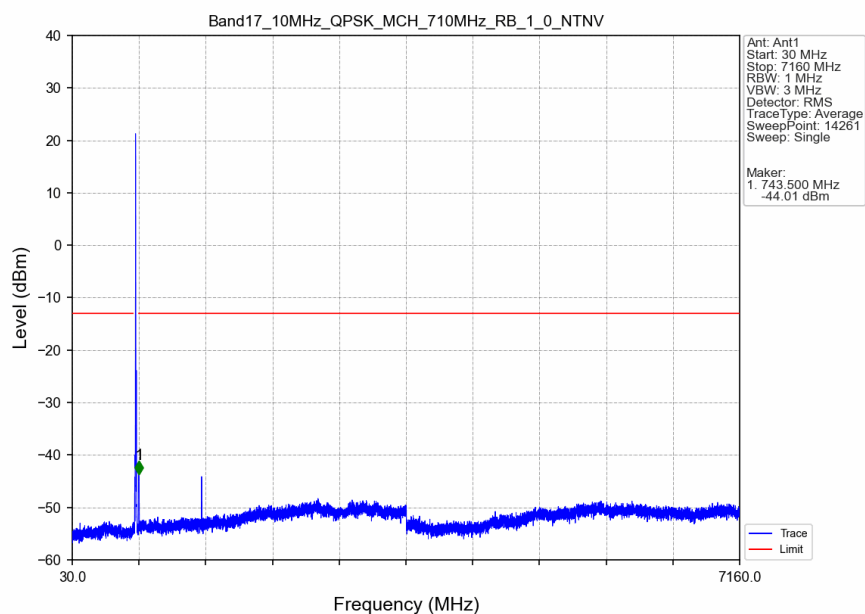
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



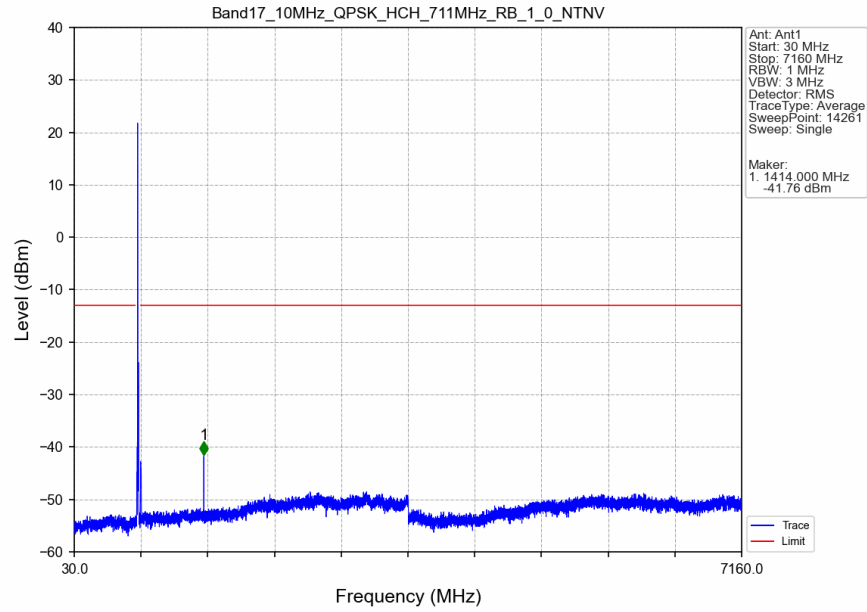
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



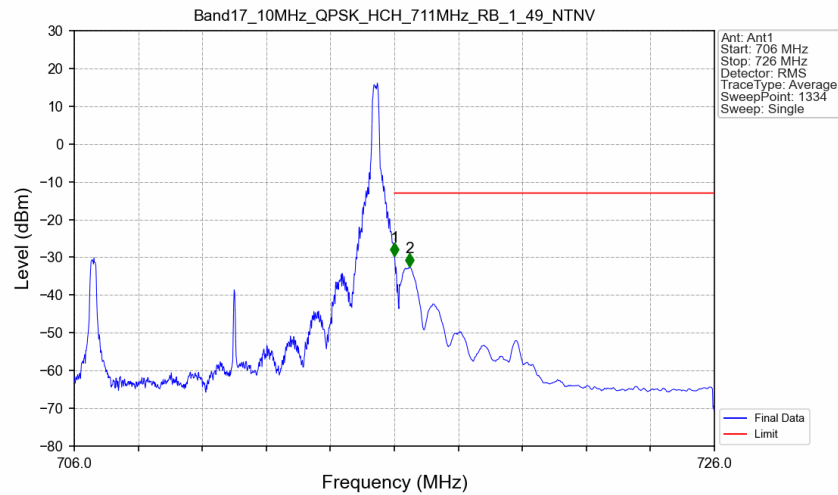
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

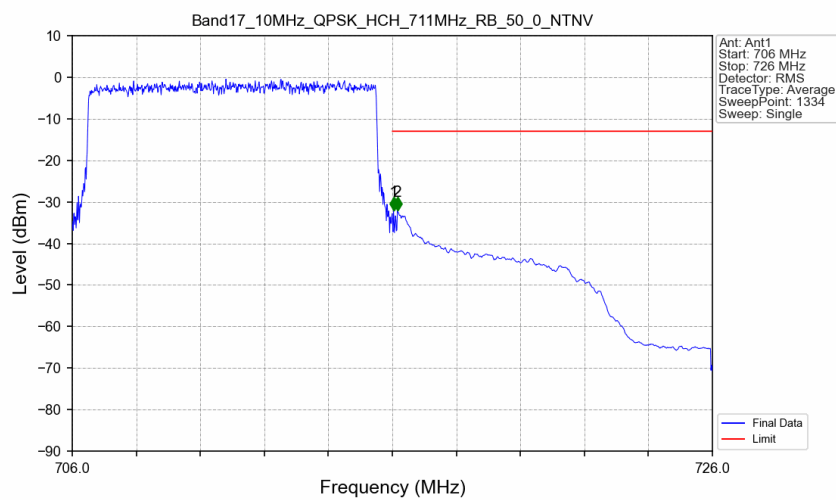


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-29.74	-13	Pass
716.1	726	0.1	CHP	2	716.473	-32.54	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-32.08	-13	Pass
716.1	726	0.1	CHP	2	716.158	-31.94	-13	Pass