

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	20.56	-2.99	15.42	<=34.77	Pass
			13	20.68	-2.99	15.54	<=34.77	Pass
			24	20.67	-2.99	15.53	<=34.77	Pass
		12	0	19.58	-2.99	14.44	<=34.77	Pass
			6	19.72	-2.99	14.58	<=34.77	Pass
			13	19.62	-2.99	14.48	<=34.77	Pass
		25	0	19.63	-2.99	14.49	<=34.77	Pass
	710	1	0	20.56	-2.99	15.42	<=34.77	Pass
			13	20.86	-2.99	15.72	<=34.77	Pass
			24	20.82	-2.99	15.68	<=34.77	Pass
		12	0	19.73	-2.99	14.59	<=34.77	Pass
			6	19.81	-2.99	14.67	<=34.77	Pass
			13	19.82	-2.99	14.68	<=34.77	Pass
		25	0	19.78	-2.99	14.64	<=34.77	Pass
	713.5	1	0	20.75	-2.99	15.61	<=34.77	Pass
			13	20.86	-2.99	15.72	<=34.77	Pass
			24	20.71	-2.99	15.57	<=34.77	Pass
		12	0	19.85	-2.99	14.71	<=34.77	Pass
			6	19.89	-2.99	14.75	<=34.77	Pass
			13	19.76	-2.99	14.62	<=34.77	Pass
		25	0	19.80	-2.99	14.66	<=34.77	Pass
16QAM	706.5	1	0	19.81	-2.99	14.67	<=34.77	Pass
			13	19.85	-2.99	14.71	<=34.77	Pass
			24	19.84	-2.99	14.70	<=34.77	Pass
		12	0	18.52	-2.99	13.38	<=34.77	Pass
			6	18.64	-2.99	13.50	<=34.77	Pass
			13	18.67	-2.99	13.53	<=34.77	Pass
		25	0	18.56	-2.99	13.42	<=34.77	Pass
	710	1	0	19.80	-2.99	14.66	<=34.77	Pass
			13	20.14	-2.99	15.00	<=34.77	Pass
			24	20.02	-2.99	14.88	<=34.77	Pass
		12	0	18.71	-2.99	13.57	<=34.77	Pass
			6	18.81	-2.99	13.67	<=34.77	Pass
			13	18.79	-2.99	13.65	<=34.77	Pass
		25	0	18.75	-2.99	13.61	<=34.77	Pass
	713.5	1	0	20.12	-2.99	14.98	<=34.77	Pass
			13	19.97	-2.99	14.83	<=34.77	Pass
			24	20.05	-2.99	14.91	<=34.77	Pass
		12	0	18.80	-2.99	13.66	<=34.77	Pass
			6	18.88	-2.99	13.74	<=34.77	Pass
			13	18.75	-2.99	13.61	<=34.77	Pass
		25	0	18.82	-2.99	13.68	<=34.77	Pass
64QAM	706.5	1	0	18.74	-2.99	13.60	<=34.77	Pass
			13	18.84	-2.99	13.70	<=34.77	Pass
			24	18.71	-2.99	13.57	<=34.77	Pass
		12	0	17.59	-2.99	12.45	<=34.77	Pass

			6	17.81	-2.99	12.67	<=34.77	Pass
			13	17.76	-2.99	12.62	<=34.77	Pass
		25	0	17.71	-2.99	12.57	<=34.77	Pass
	710	1	0	18.84	-2.99	13.70	<=34.77	Pass
			13	19.07	-2.99	13.93	<=34.77	Pass
			24	19.01	-2.99	13.87	<=34.77	Pass
		12	0	17.81	-2.99	12.67	<=34.77	Pass
			6	17.94	-2.99	12.80	<=34.77	Pass
			13	17.91	-2.99	12.77	<=34.77	Pass
		25	0	17.87	-2.99	12.73	<=34.77	Pass
	713.5	1	0	18.82	-2.99	13.68	<=34.77	Pass
			13	18.99	-2.99	13.85	<=34.77	Pass
			24	18.74	-2.99	13.60	<=34.77	Pass
		12	0	17.89	-2.99	12.75	<=34.77	Pass
			6	17.98	-2.99	12.84	<=34.77	Pass
			13	17.84	-2.99	12.70	<=34.77	Pass
		25	0	17.90	-2.99	12.76	<=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	20.46	-2.99	15.32	<=34.77	Pass
			25	20.80	-2.99	15.66	<=34.77	Pass
			49	20.79	-2.99	15.65	<=34.77	Pass
		25	0	19.60	-2.99	14.46	<=34.77	Pass
			13	19.78	-2.99	14.64	<=34.77	Pass
			25	19.81	-2.99	14.67	<=34.77	Pass
		50	0	19.74	-2.99	14.60	<=34.77	Pass
	710	1	0	20.61	-2.99	15.47	<=34.77	Pass
			25	20.88	-2.99	15.74	<=34.77	Pass
			49	20.84	-2.99	15.70	<=34.77	Pass
		25	0	19.68	-2.99	14.54	<=34.77	Pass
			13	19.82	-2.99	14.68	<=34.77	Pass
			25	19.82	-2.99	14.68	<=34.77	Pass
		50	0	19.76	-2.99	14.62	<=34.77	Pass
	711	1	0	20.48	-2.99	15.34	<=34.77	Pass
			25	20.91	-2.99	15.77	<=34.77	Pass
			49	20.72	-2.99	15.58	<=34.77	Pass
		25	0	19.72	-2.99	14.58	<=34.77	Pass
			13	19.88	-2.99	14.74	<=34.77	Pass
			25	19.80	-2.99	14.66	<=34.77	Pass
		50	0	19.78	-2.99	14.64	<=34.77	Pass
16QAM	709	1	0	19.93	-2.99	14.79	<=34.77	Pass
			25	20.08	-2.99	14.94	<=34.77	Pass
			49	20.11	-2.99	14.97	<=34.77	Pass
		25	0	18.63	-2.99	13.49	<=34.77	Pass
			13	18.78	-2.99	13.64	<=34.77	Pass
			25	18.82	-2.99	13.68	<=34.77	Pass
		50	0	18.72	-2.99	13.58	<=34.77	Pass
	710	1	0	19.75	-2.99	14.61	<=34.77	Pass
			25	19.85	-2.99	14.71	<=34.77	Pass

		25	49	20.09	-2.99	14.95	<=34.77	Pass
			0	18.71	-2.99	13.57	<=34.77	Pass
			13	18.84	-2.99	13.70	<=34.77	Pass
			25	18.82	-2.99	13.68	<=34.77	Pass
	711	50	0	18.75	-2.99	13.61	<=34.77	Pass
			0	19.66	-2.99	14.52	<=34.77	Pass
			25	20.14	-2.99	15.00	<=34.77	Pass
		1	49	19.98	-2.99	14.84	<=34.77	Pass
			0	18.71	-2.99	13.57	<=34.77	Pass
			13	18.90	-2.99	13.76	<=34.77	Pass
		25	25	18.74	-2.99	13.60	<=34.77	Pass
			0	18.73	-2.99	13.59	<=34.77	Pass
		50	0	18.45	-2.99	13.31	<=34.77	Pass
			25	18.97	-2.99	13.83	<=34.77	Pass
			49	18.92	-2.99	13.78	<=34.77	Pass
64QAM	709	1	0	17.69	-2.99	12.55	<=34.77	Pass
			13	17.87	-2.99	12.73	<=34.77	Pass
			25	17.90	-2.99	12.76	<=34.77	Pass
		25	0	17.81	-2.99	12.67	<=34.77	Pass
			0	18.69	-2.99	13.55	<=34.77	Pass
			25	19.06	-2.99	13.92	<=34.77	Pass
	710	1	49	18.68	-2.99	13.54	<=34.77	Pass
			0	17.77	-2.99	12.63	<=34.77	Pass
			13	17.92	-2.99	12.78	<=34.77	Pass
		25	25	17.91	-2.99	12.77	<=34.77	Pass
			0	17.84	-2.99	12.70	<=34.77	Pass
			0	18.75	-2.99	13.61	<=34.77	Pass
	711	1	25	18.96	-2.99	13.82	<=34.77	Pass
			49	18.81	-2.99	13.67	<=34.77	Pass
			0	17.79	-2.99	12.65	<=34.77	Pass
		25	13	17.96	-2.99	12.82	<=34.77	Pass
			25	17.90	-2.99	12.76	<=34.77	Pass
			0	17.81	-2.99	12.67	<=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	-2.000	-0.0028	-2.5 to 2.5	Pass
					NV	-2.200	-0.0031	-2.5 to 2.5	Pass
					HV	-2.500	-0.0035	-2.5 to 2.5	Pass
				-30	NV	-2.800	-0.0039	-2.5 to 2.5	Pass
				-20	NV	-1.300	-0.0018	-2.5 to 2.5	Pass
				-10	NV	-1.400	-0.0020	-2.5 to 2.5	Pass
				0	NV	-5.100	-0.0072	-2.5 to 2.5	Pass
				10	NV	-2.700	-0.0038	-2.5 to 2.5	Pass
				30	NV	-2.300	-0.0032	-2.5 to 2.5	Pass
				40	NV	-3.800	-0.0054	-2.5 to 2.5	Pass
				50	NV	-1.300	-0.0018	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

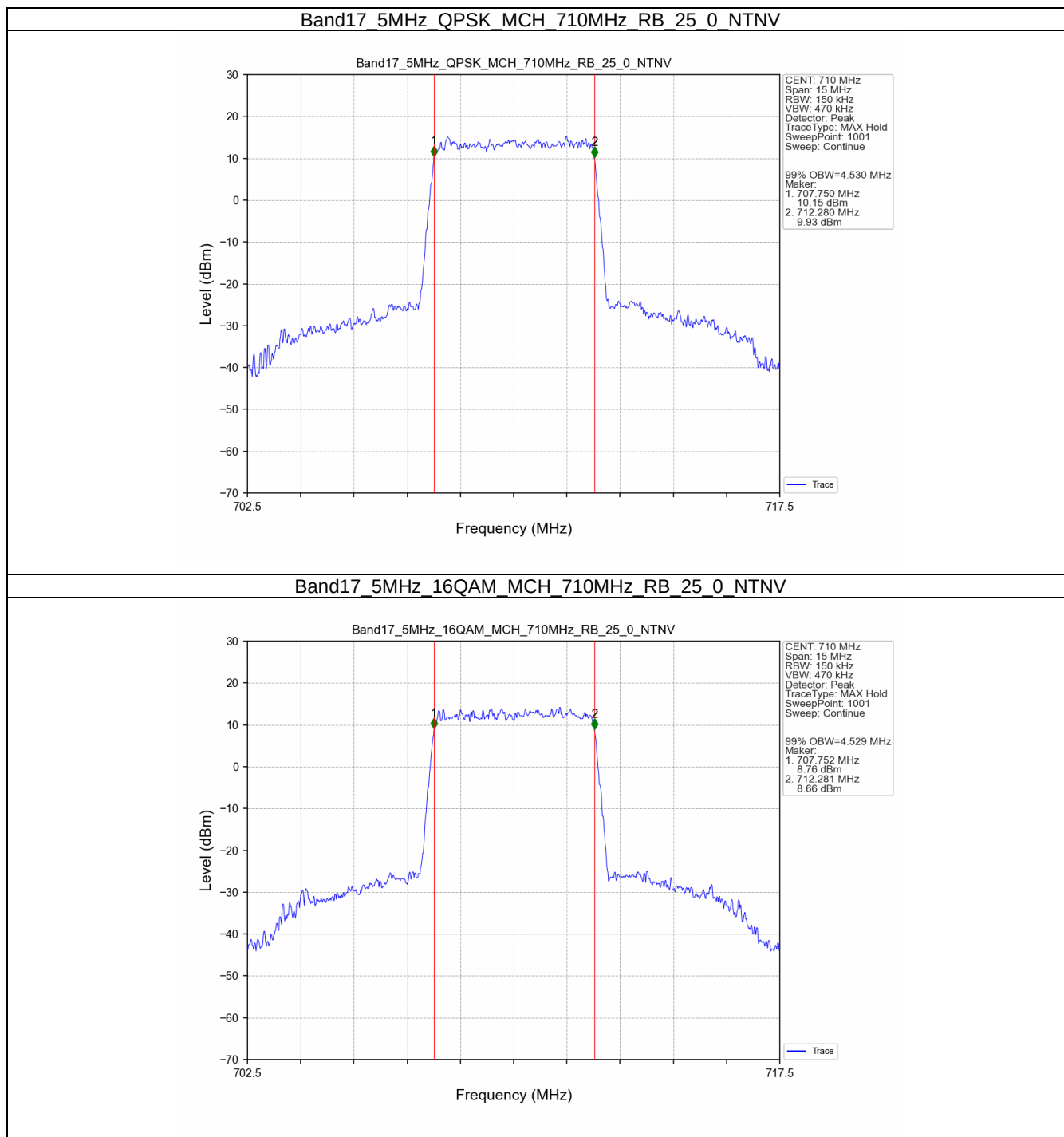
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.530	/	Pass
	16QAM	710	25	0	4.529	/	Pass
	64QAM	710	25	0	4.543	/	Pass
10	QPSK	710	50	0	9.036	/	Pass
	16QAM	710	50	0	9.005	/	Pass
	64QAM	710	50	0	9.030	/	Pass

3.1.2 Band17_XDB

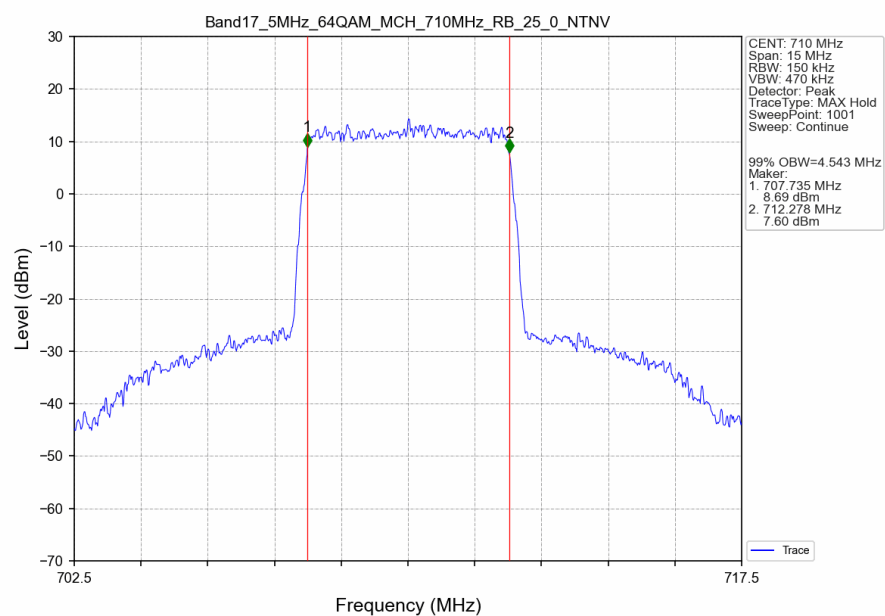
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.989	/	Pass
	16QAM	710	25	0	4.983	/	Pass
	64QAM	710	25	0	4.995	/	Pass
10	QPSK	710	50	0	9.844	/	Pass
	16QAM	710	50	0	9.862	/	Pass
	64QAM	710	50	0	9.911	/	Pass

3.2 Test Graph

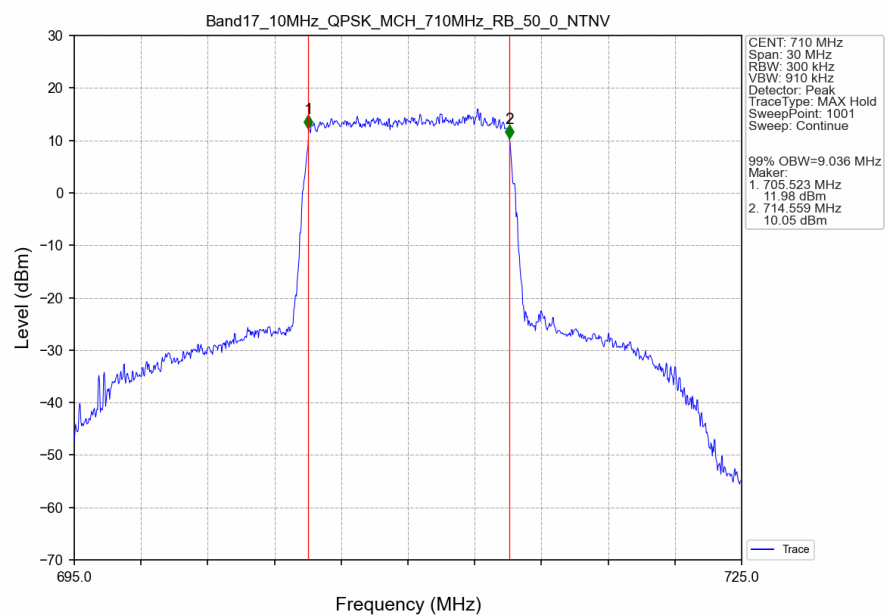
3.2.1 Band17_OBW



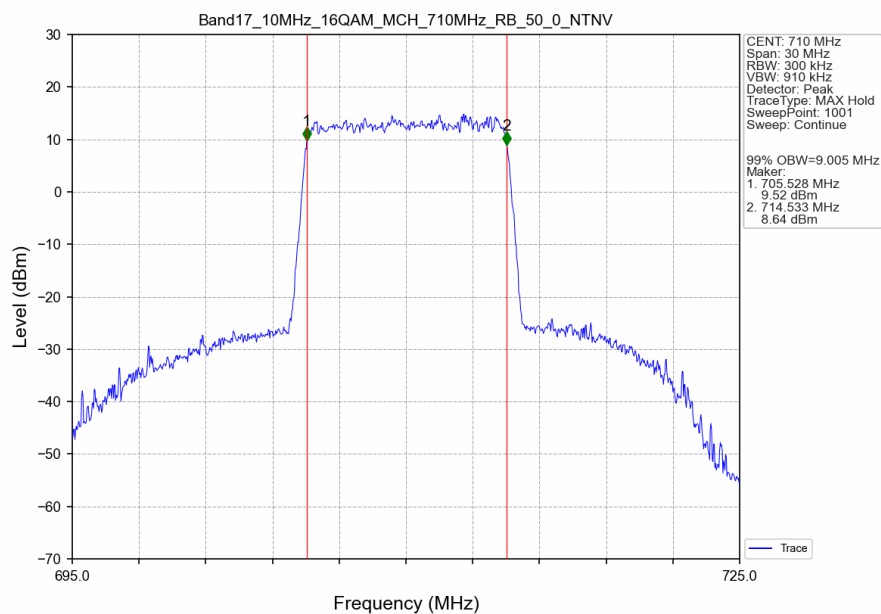
Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



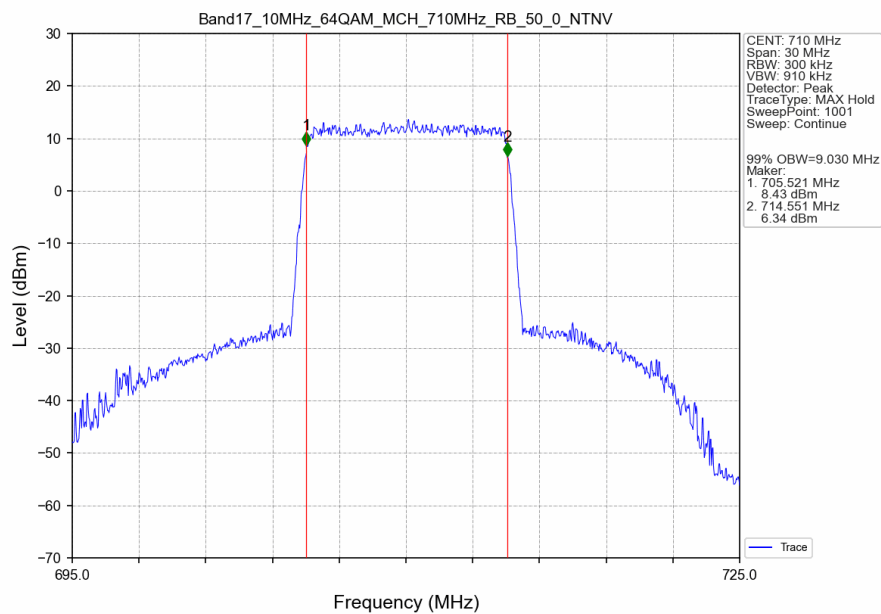
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



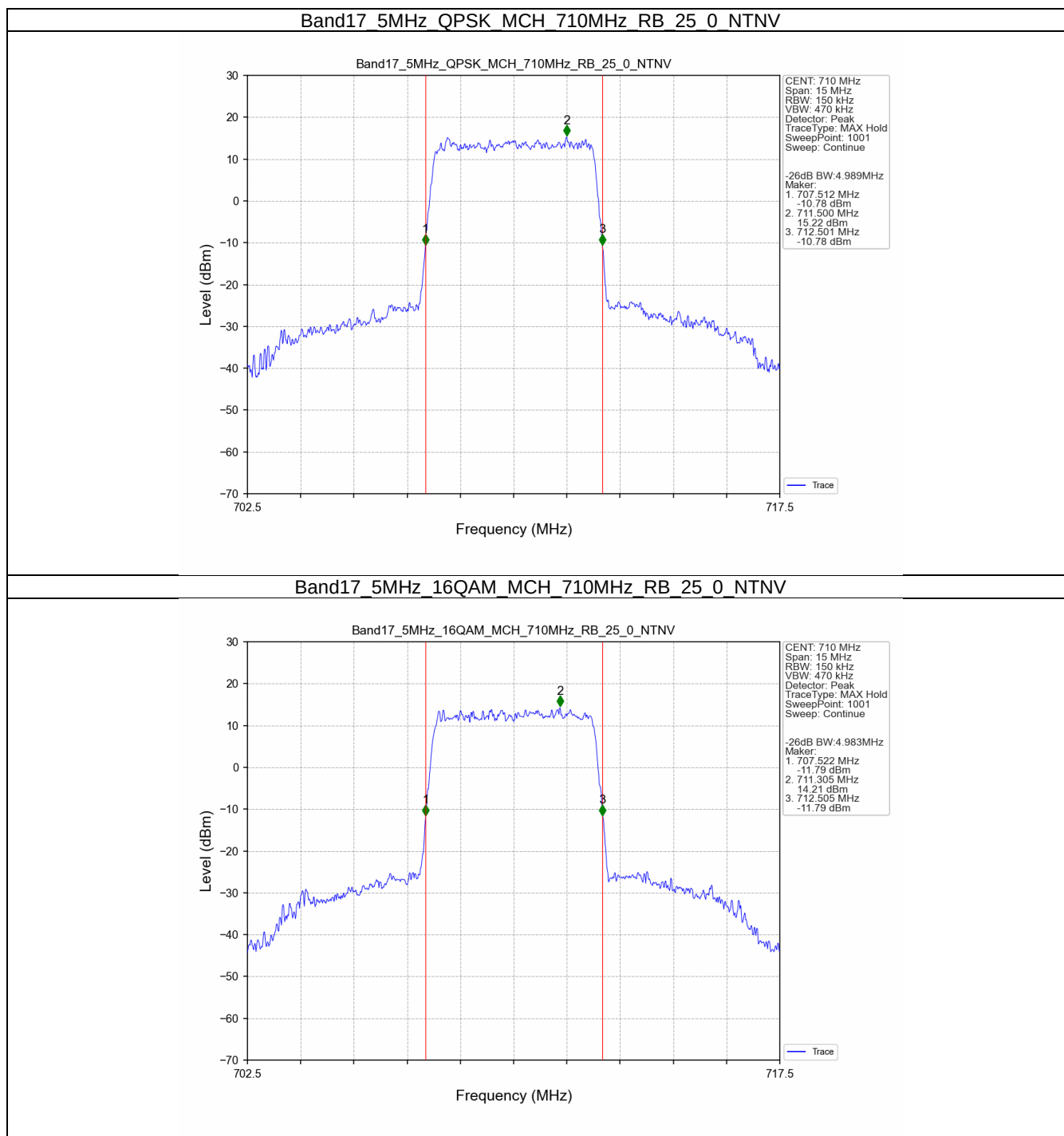
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



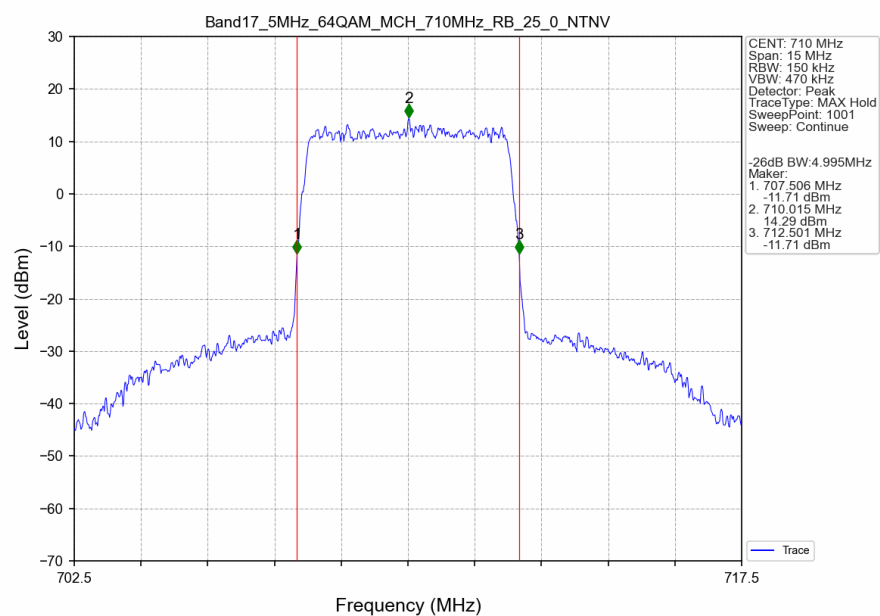
Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



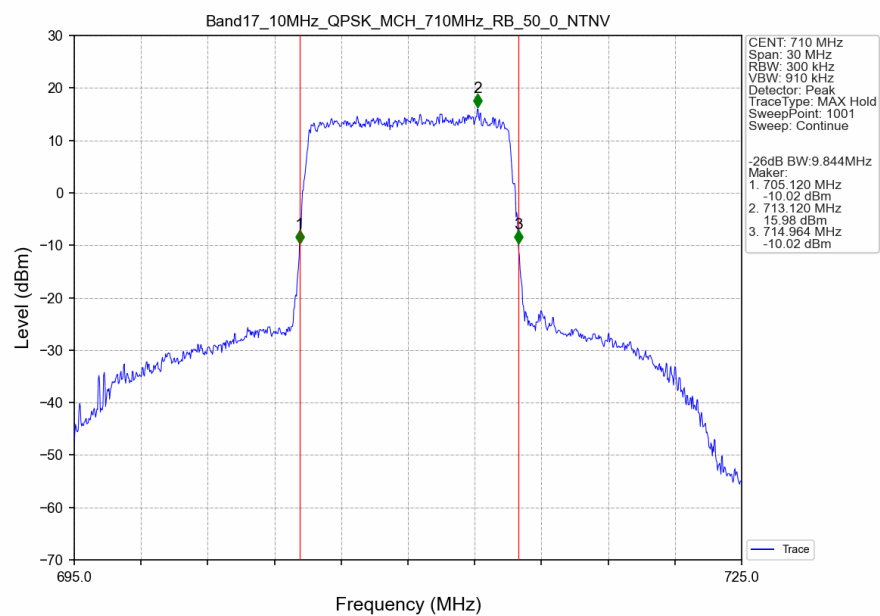
3.2.2 Band17_XDB



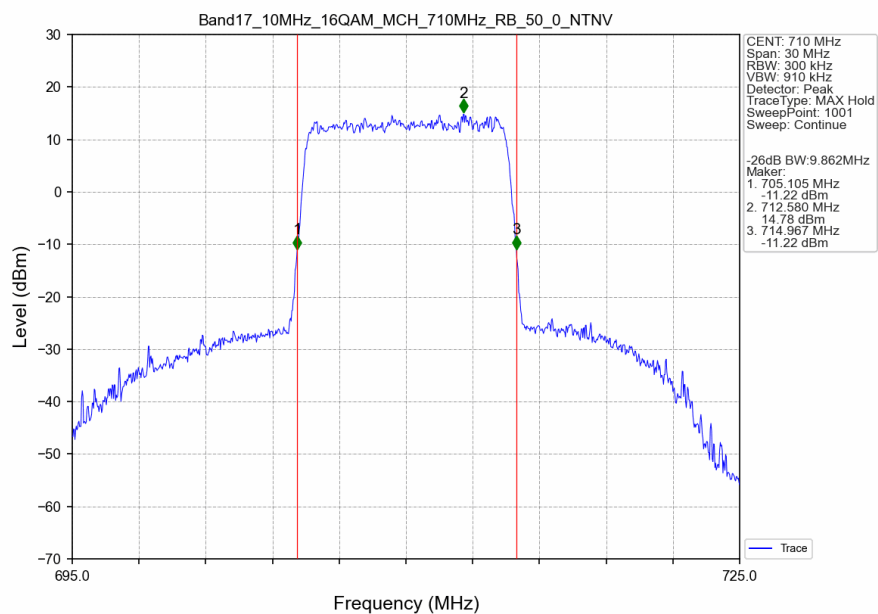
Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



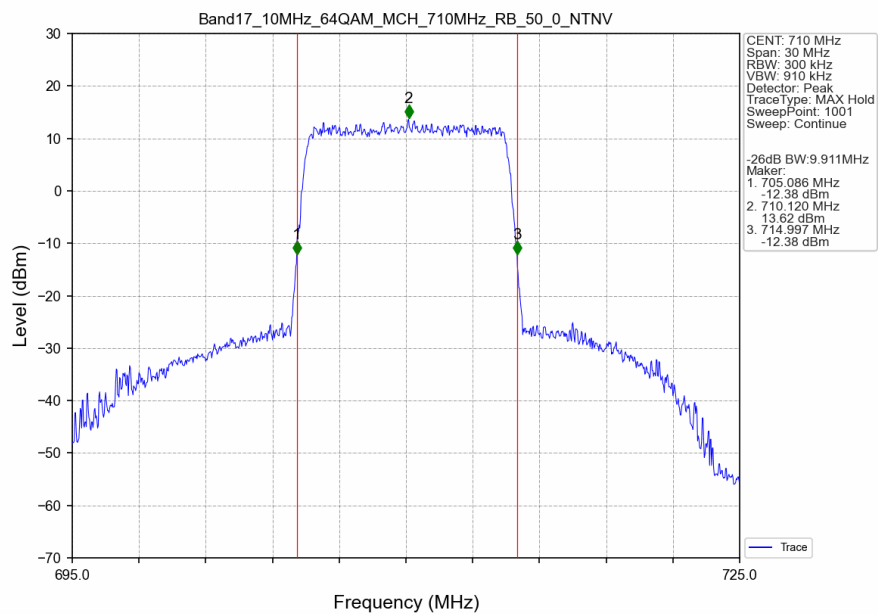
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV





4. Peak-Average Ratio

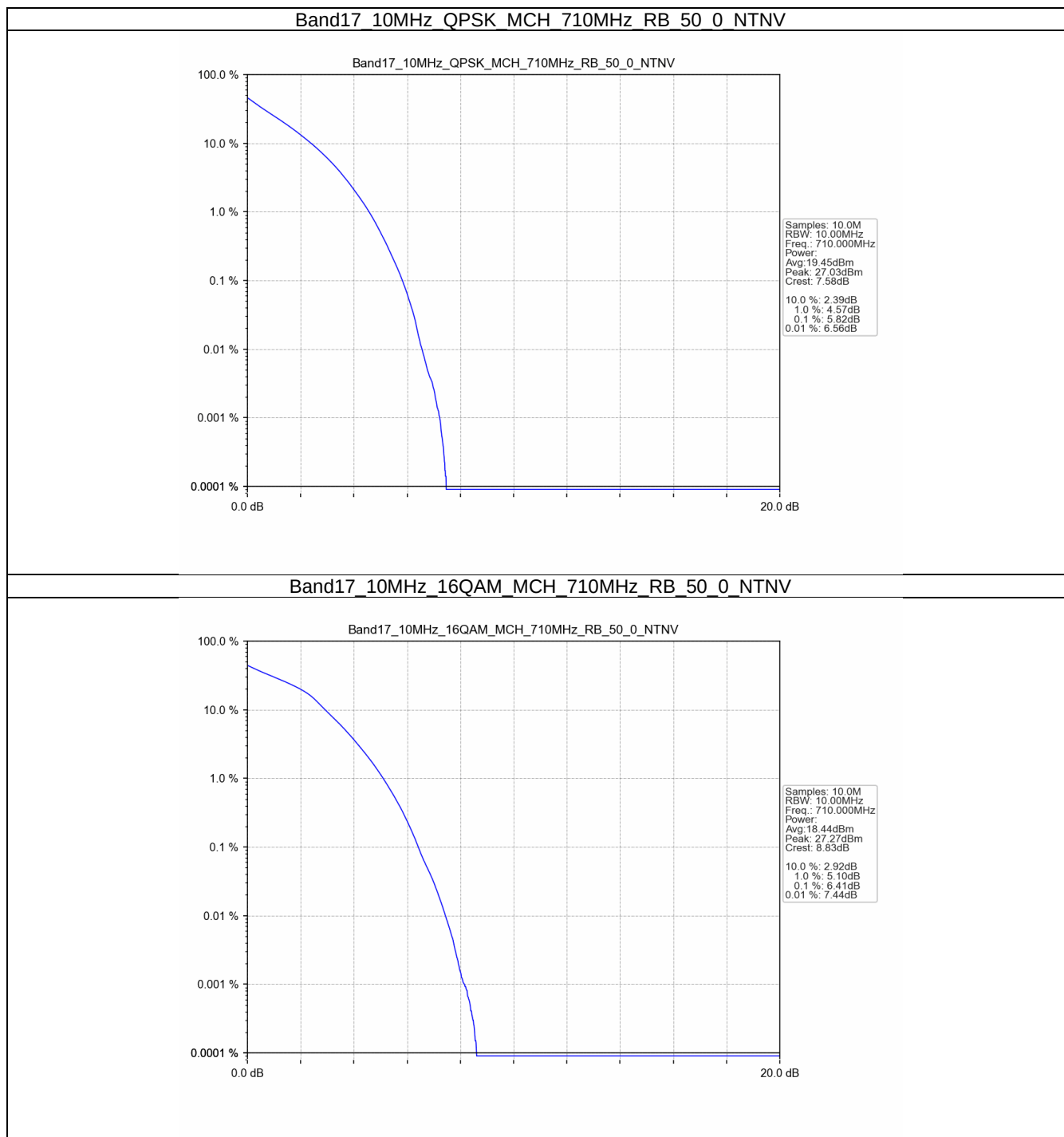
4.1 Test Result

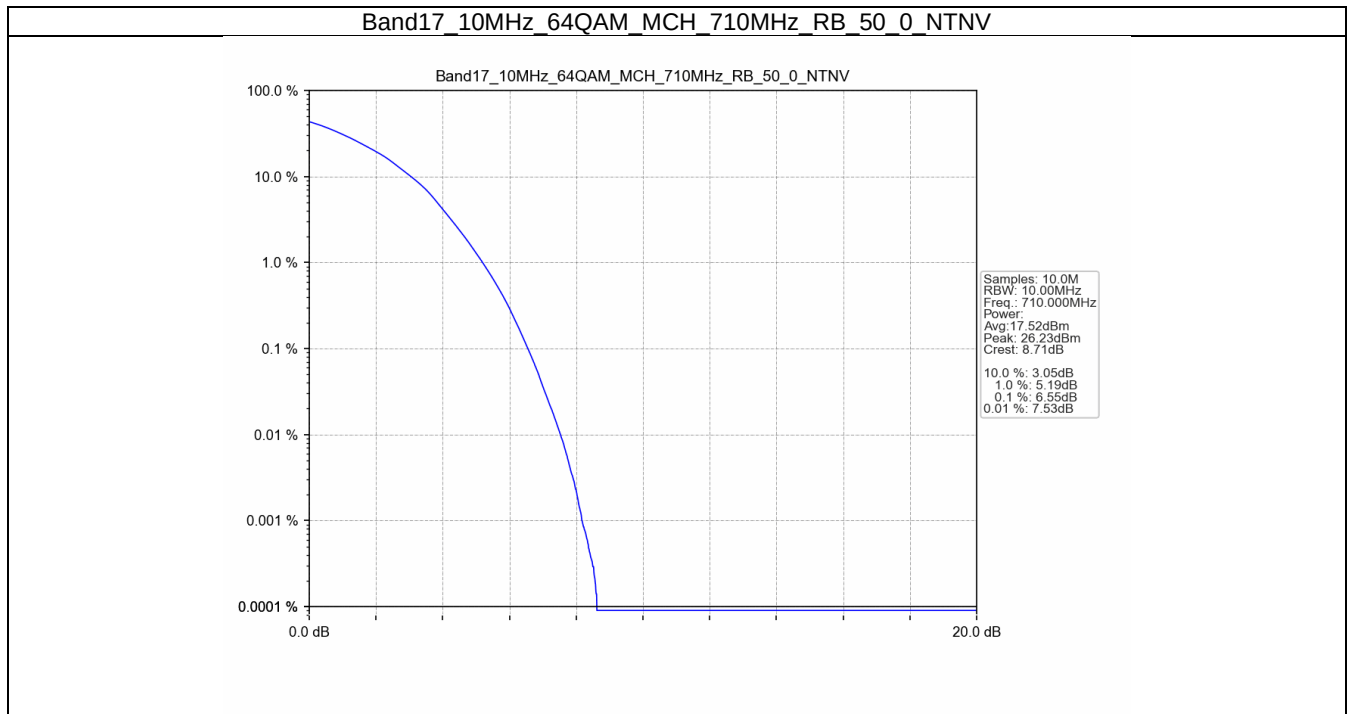
4.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	5.82	<=13	Pass
16QAM	710	50	0	6.41	<=13	Pass
64QAM	710	50	0	6.55	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

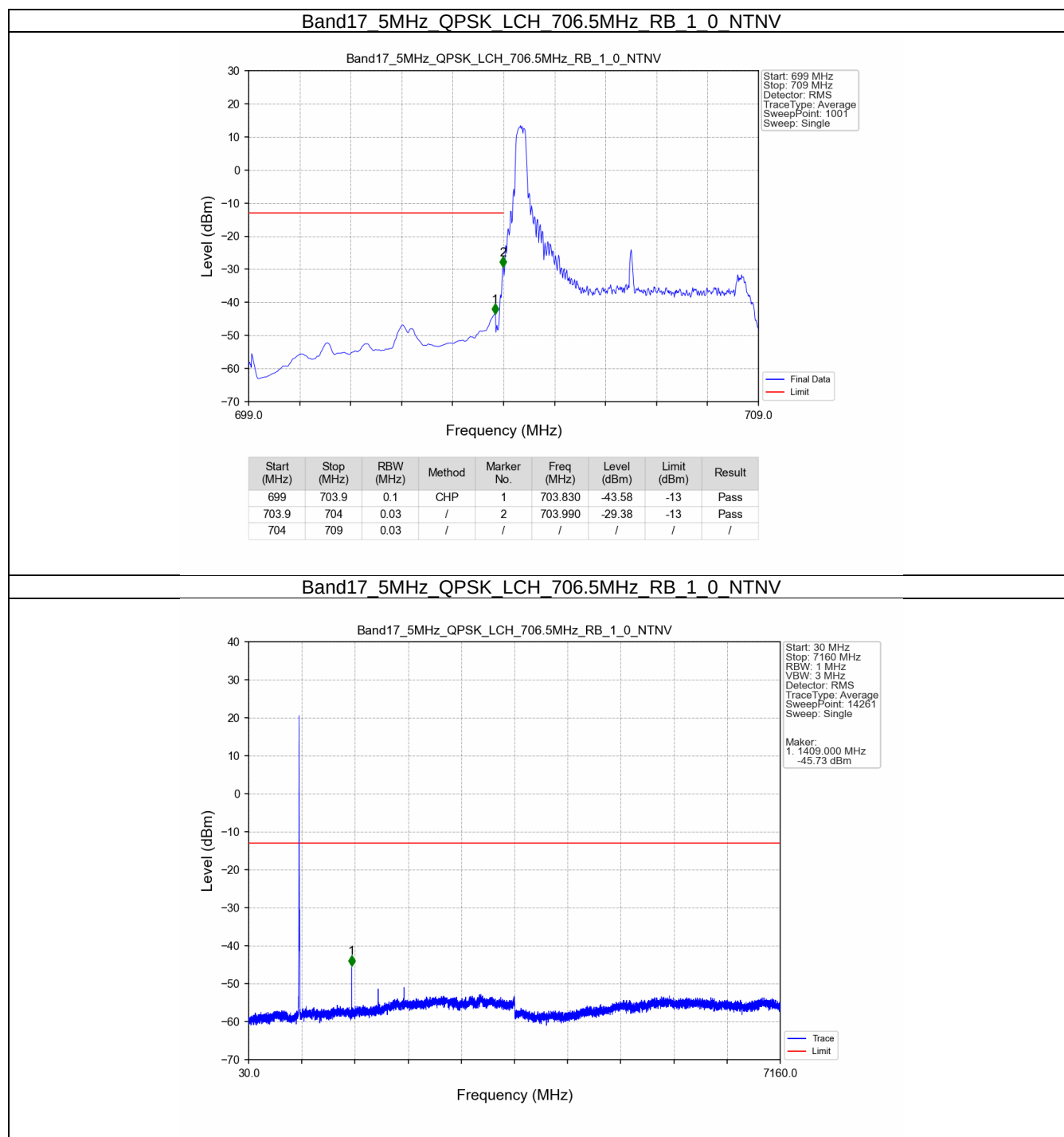
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B17_10MHz

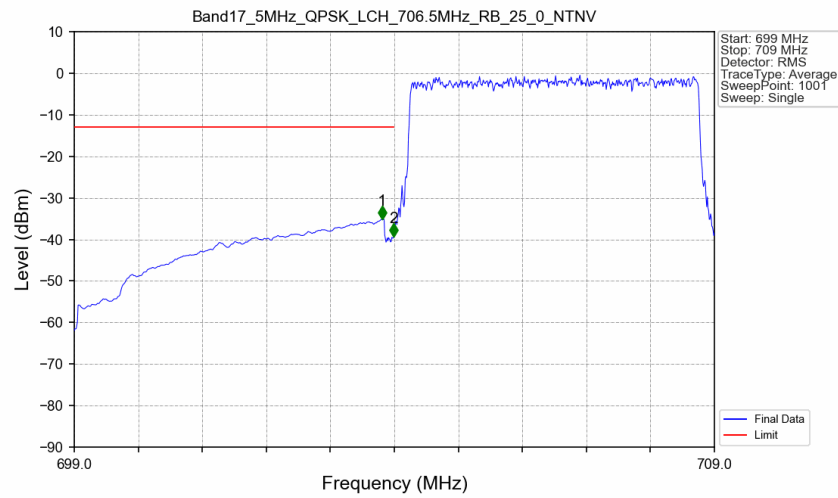
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

5.2 Test Graph

5.2.1 B17_5MHz

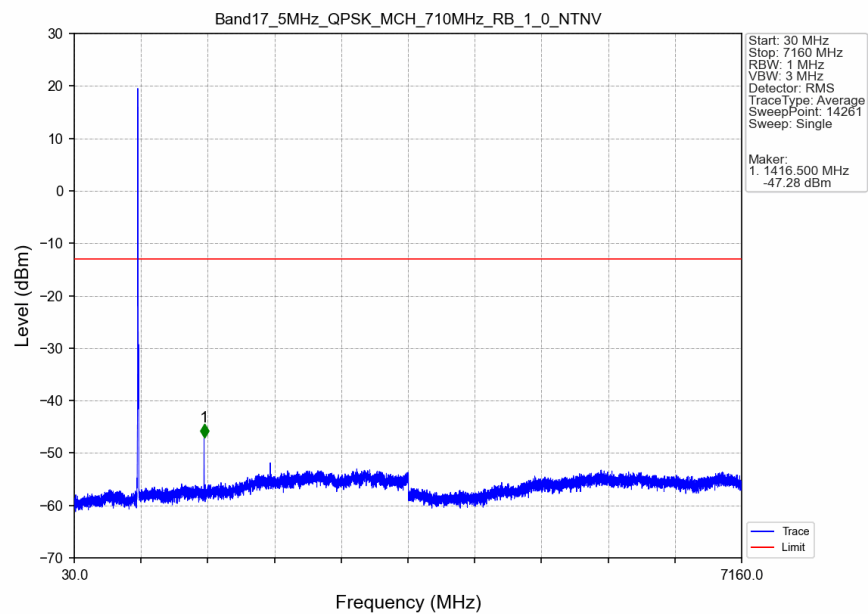


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

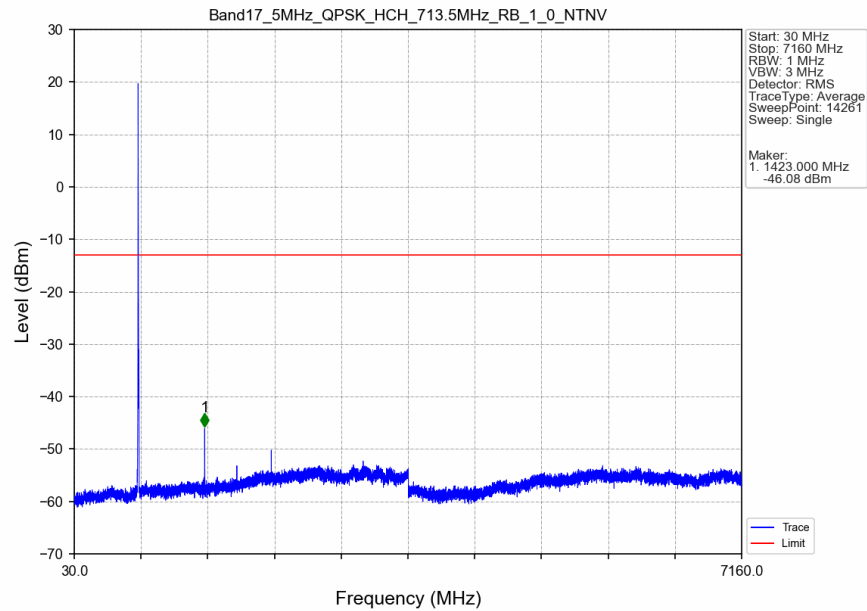


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.810	-35.17	-13	Pass
703.9	704	0.03	/	2	703.990	-39.36	-13	Pass
704	709	0.03	/	/	/	/	/	/

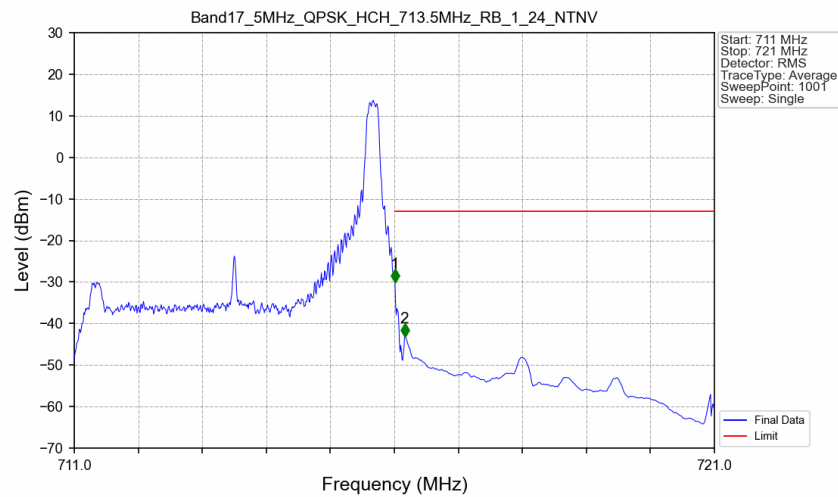
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

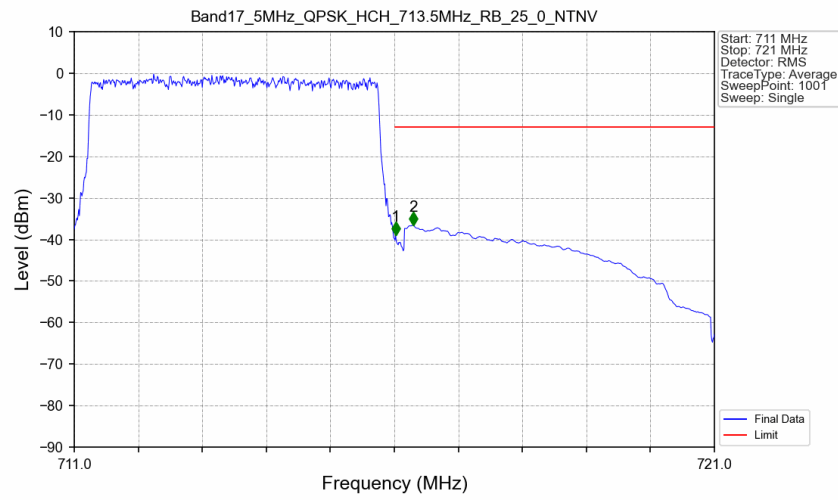


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



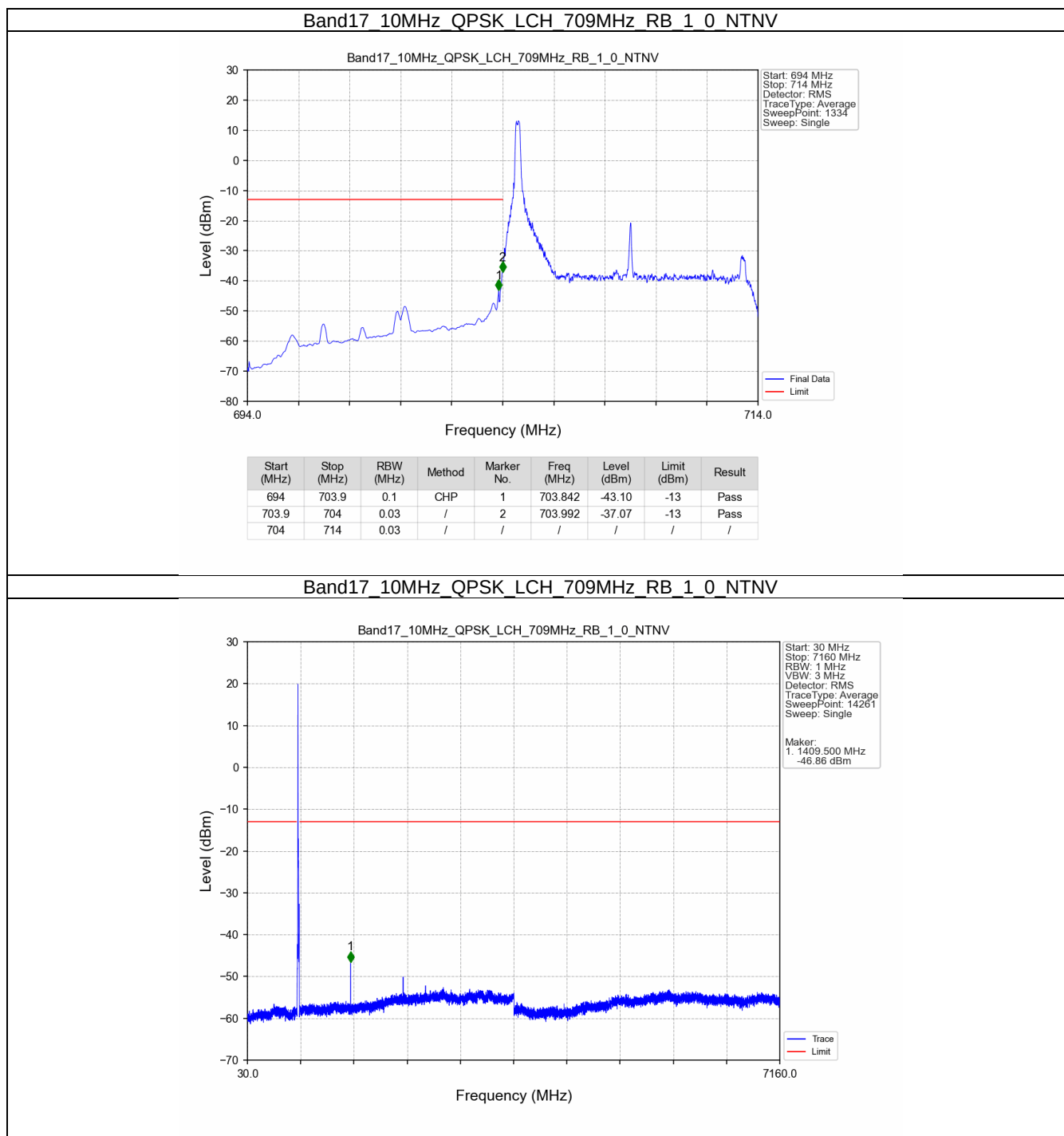
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-30.00	-13	Pass
716.1	721	0.1	CHP	2	716.160	-43.18	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

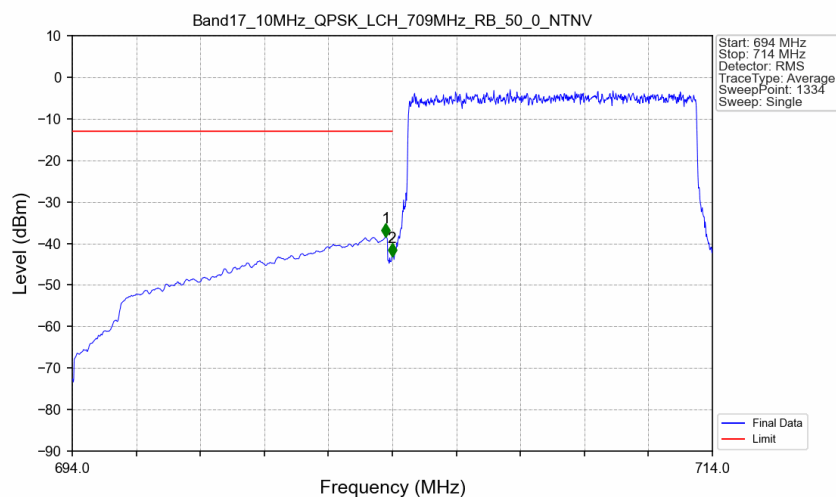


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-38.97	-13	Pass
716.1	721	0.1	CHP	2	716.300	-36.54	-13	Pass

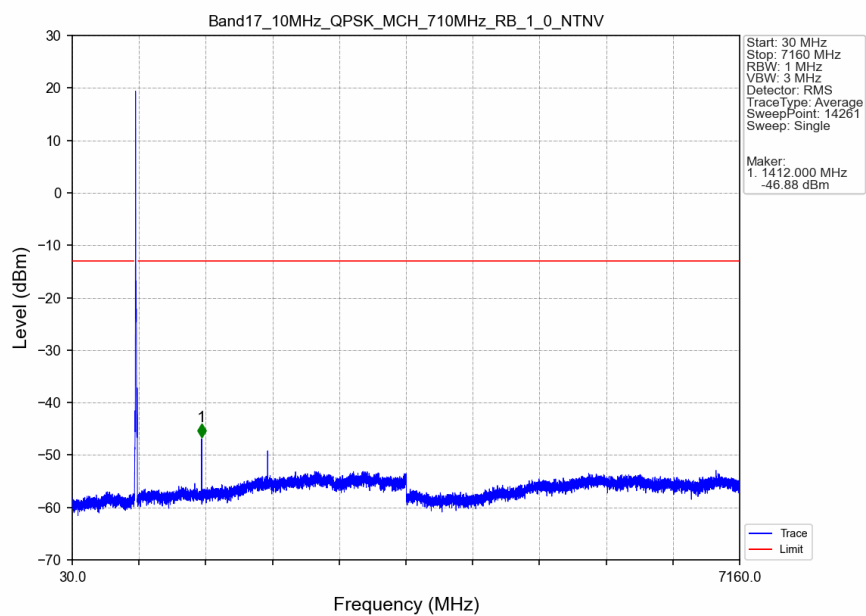
5.2.2 B17_10MHz



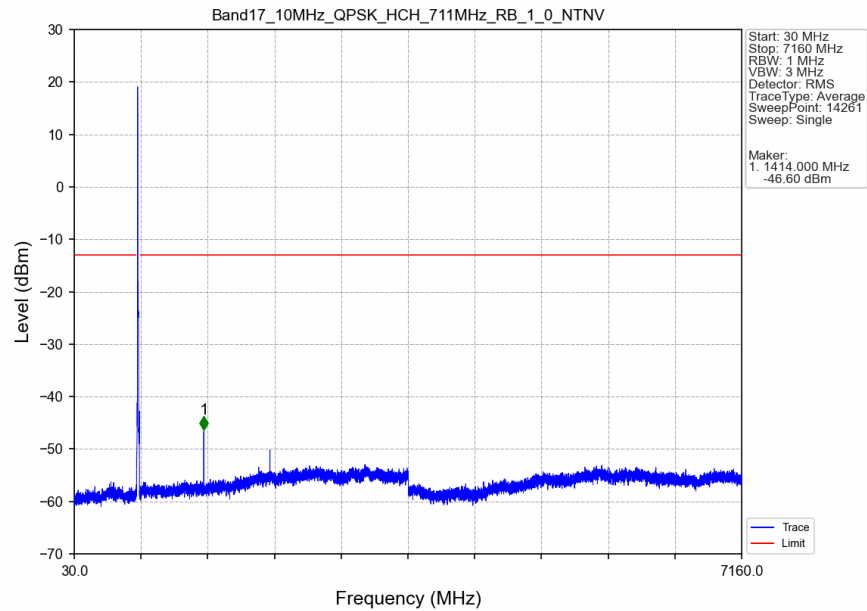
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



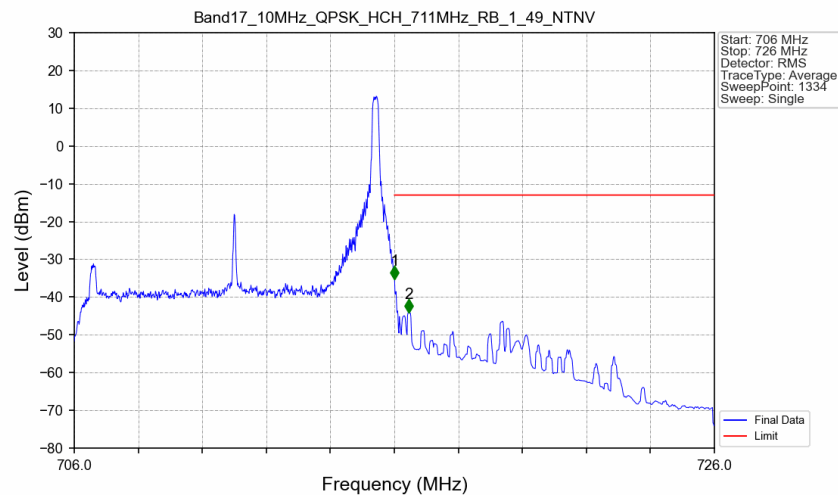
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

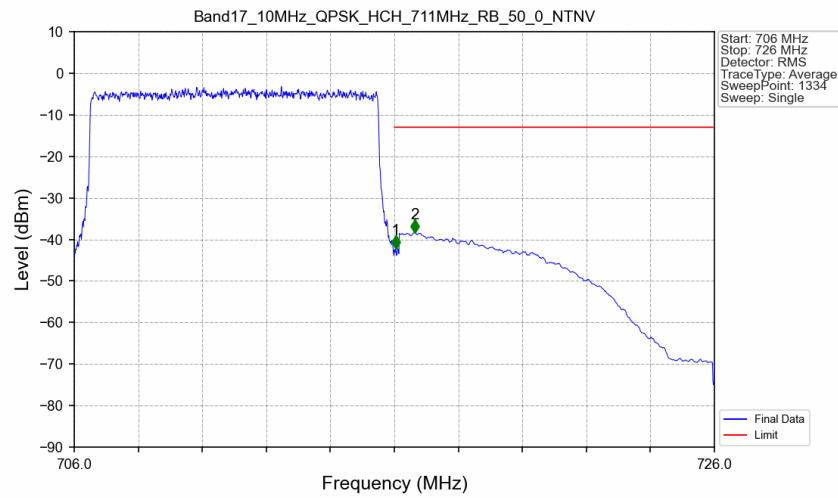


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-35.26	-13	Pass
716.1	726	0.1	CHP	2	716.443	-44.11	-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	-42.30	-13	Pass
716.1	726	0.1	CHP	2	716.638	-38.33	-13	Pass

- End of the Appendix -