



5.4 B12_10MHz

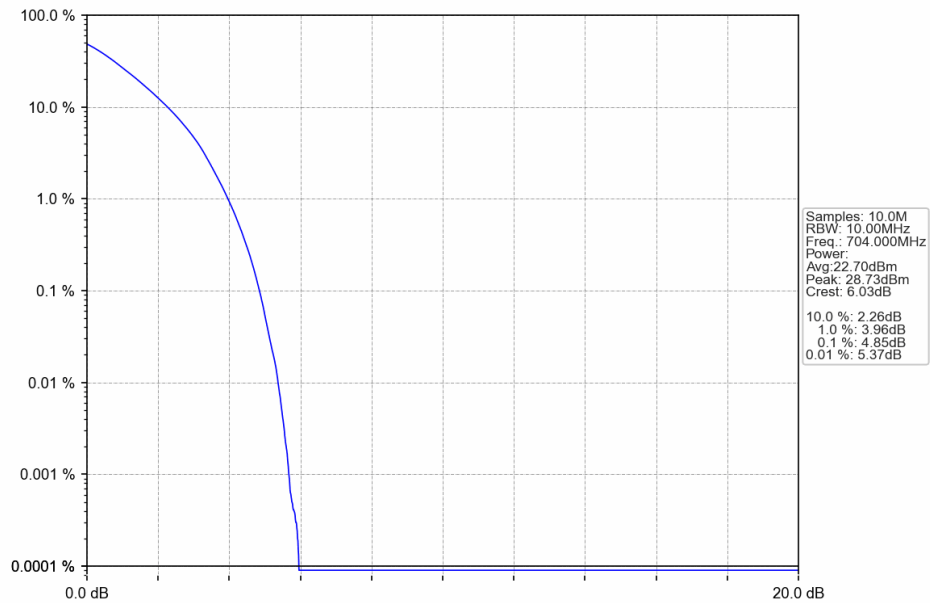
5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.85	<=13	Pass
	707.5	50	0	4.81	<=13	Pass
	711	50	0	4.66	<=13	Pass
16QAM	704	50	0	5.65	<=13	Pass
	707.5	50	0	5.53	<=13	Pass
	711	50	0	5.57	<=13	Pass

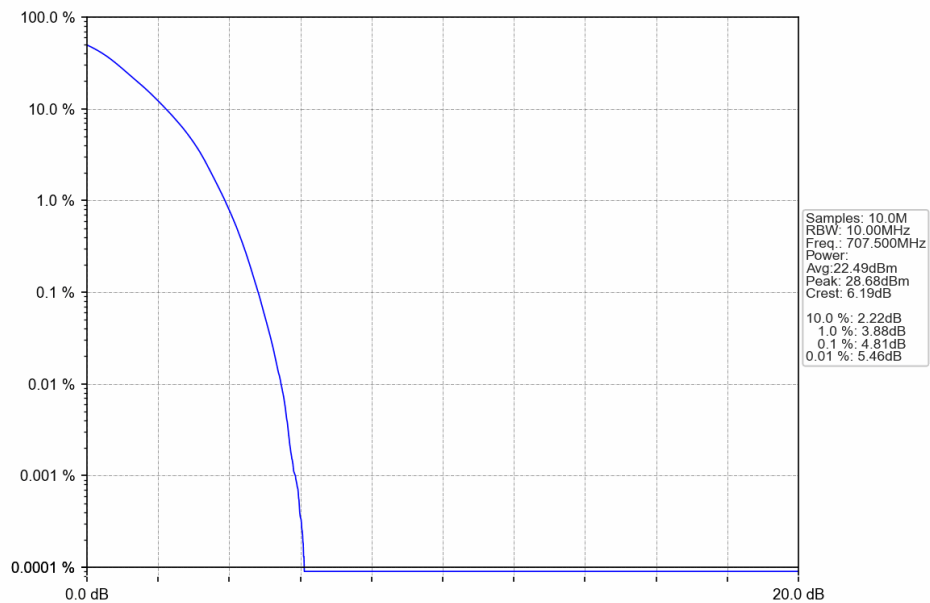


5.4.2 Test Graph

Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

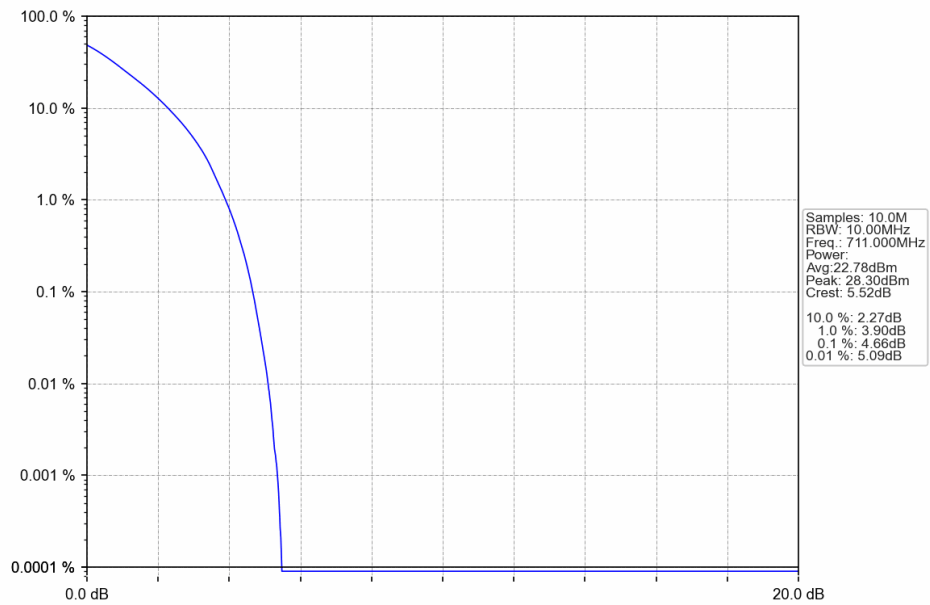


Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

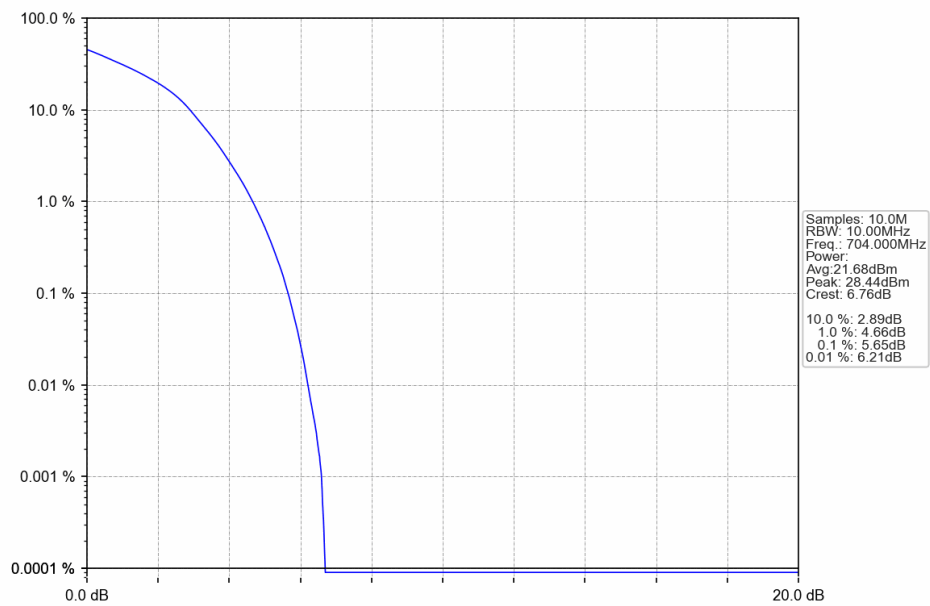




Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

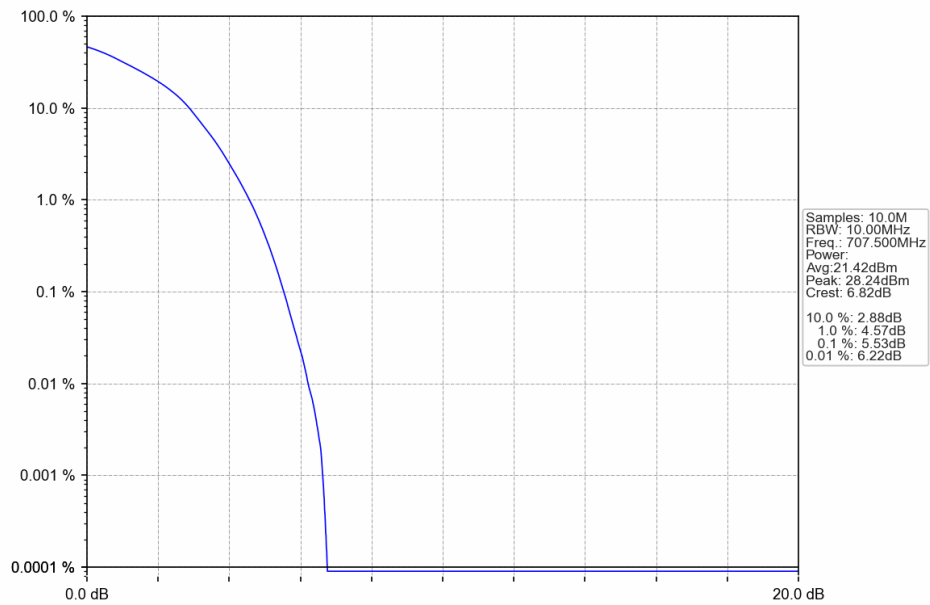


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

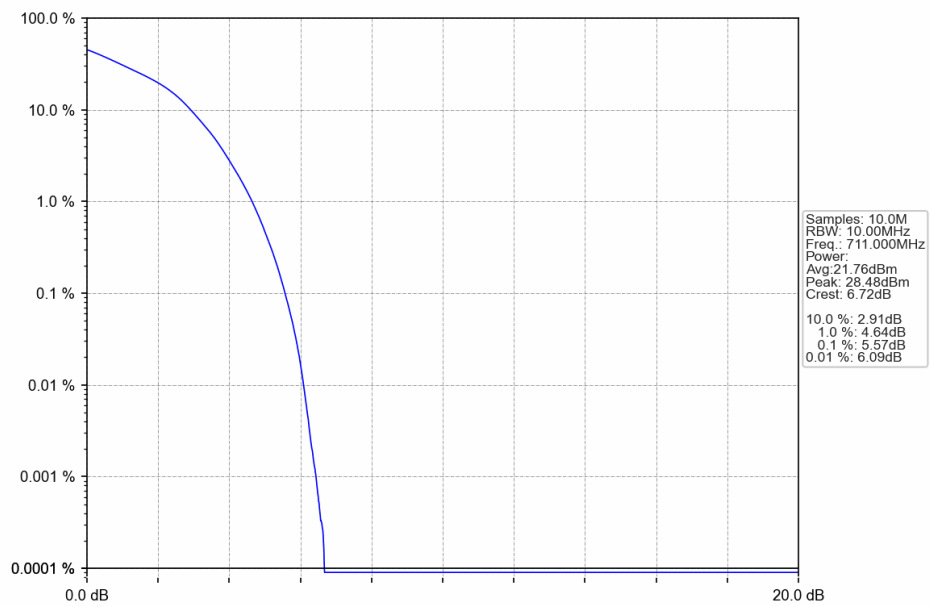




Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV





6. Spurious Emission

6.1 B12_1.4MHz

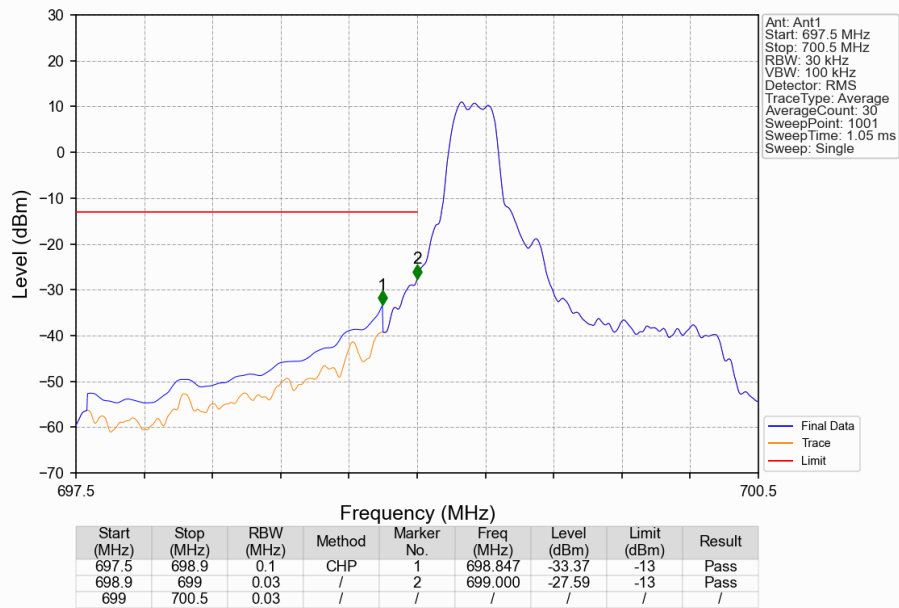
6.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

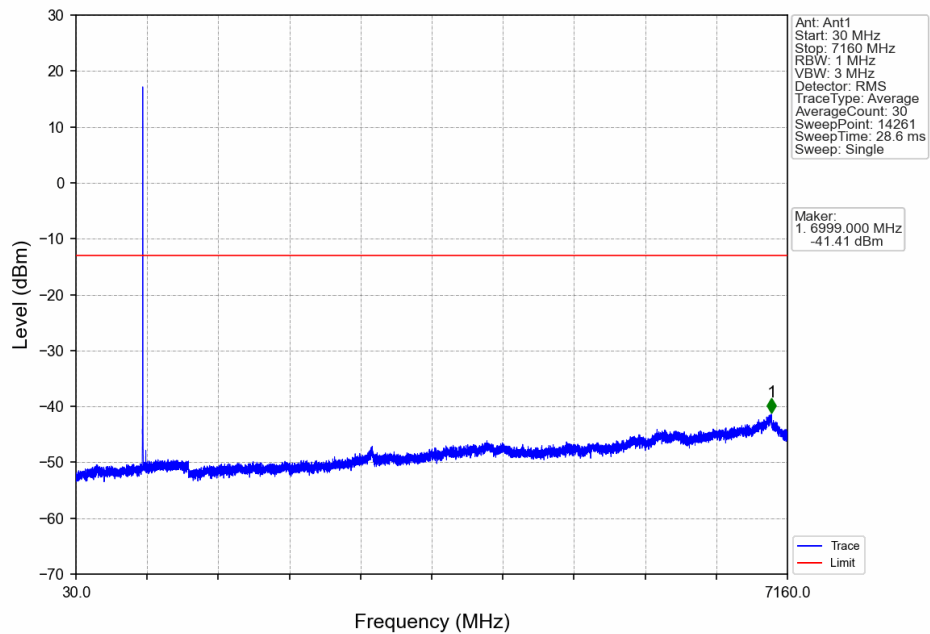


6.1.2 Test Graph

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

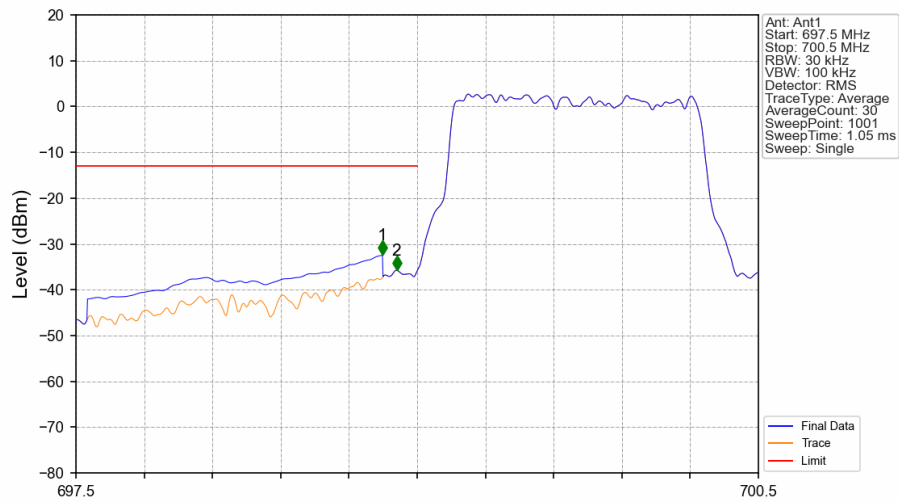


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



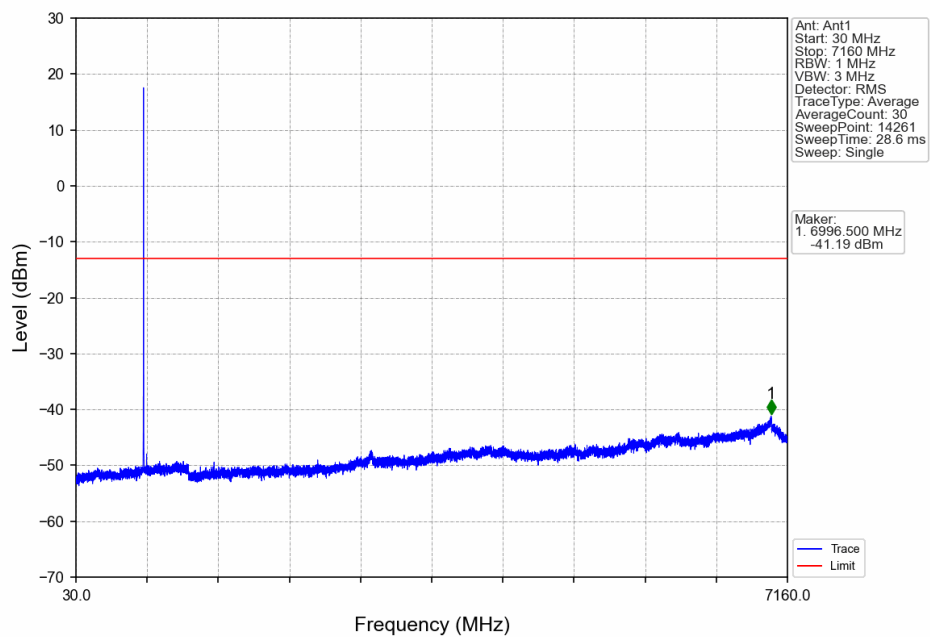


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



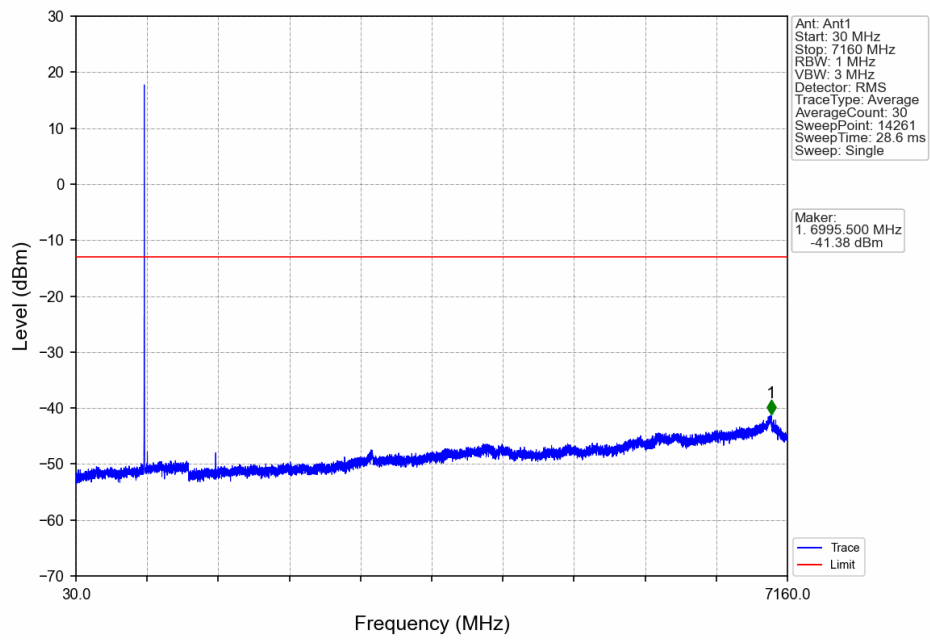
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-32.43	-13	Pass
698.9	699	0.03	/	2	698.910	-35.73	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

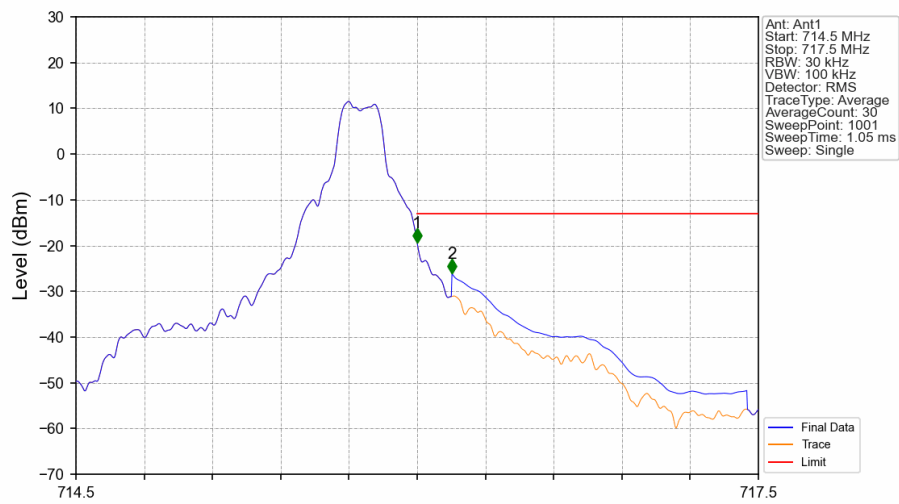




Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



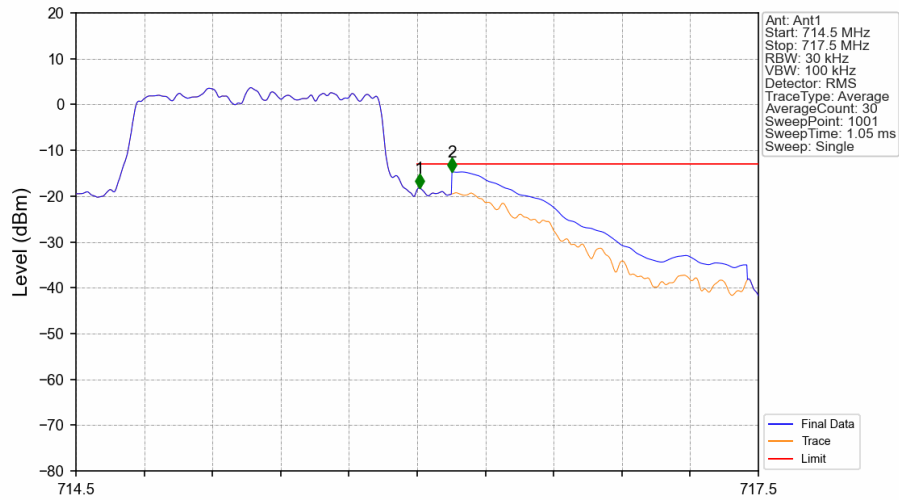
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.000	-19.43	-13	Pass
716	716.1	0.03	/	2	716.153	-26.15	-13	Pass
716.1	717.5	0.1	CHP					

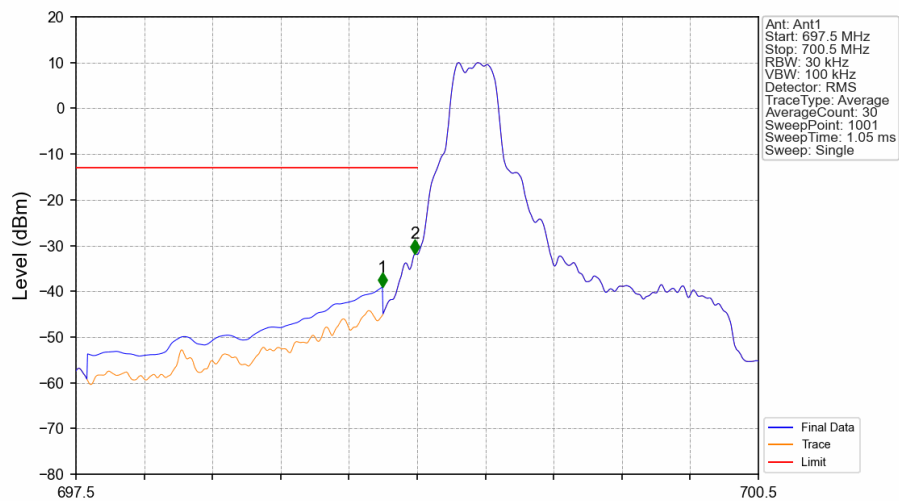


Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.009	-18.22	-13	Pass
716	716.1	0.03	/	1	716.009	-18.22	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-14.69	-13	Pass

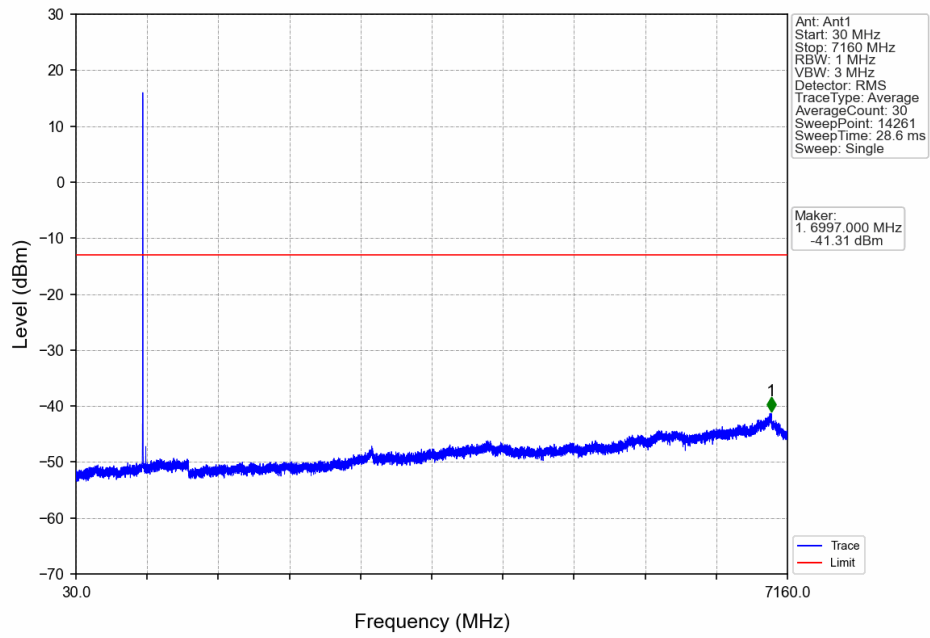
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTV



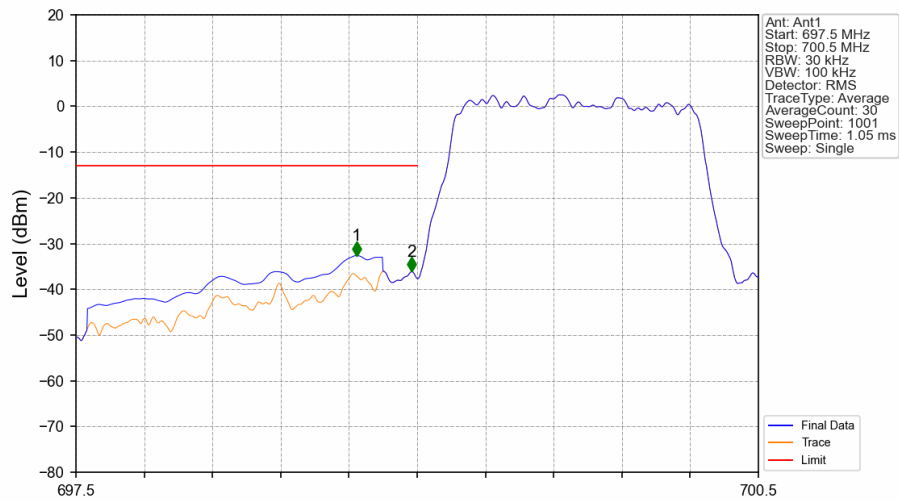
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-39.05	-13	Pass
698.9	699	0.03	/	2	698.991	-31.76	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



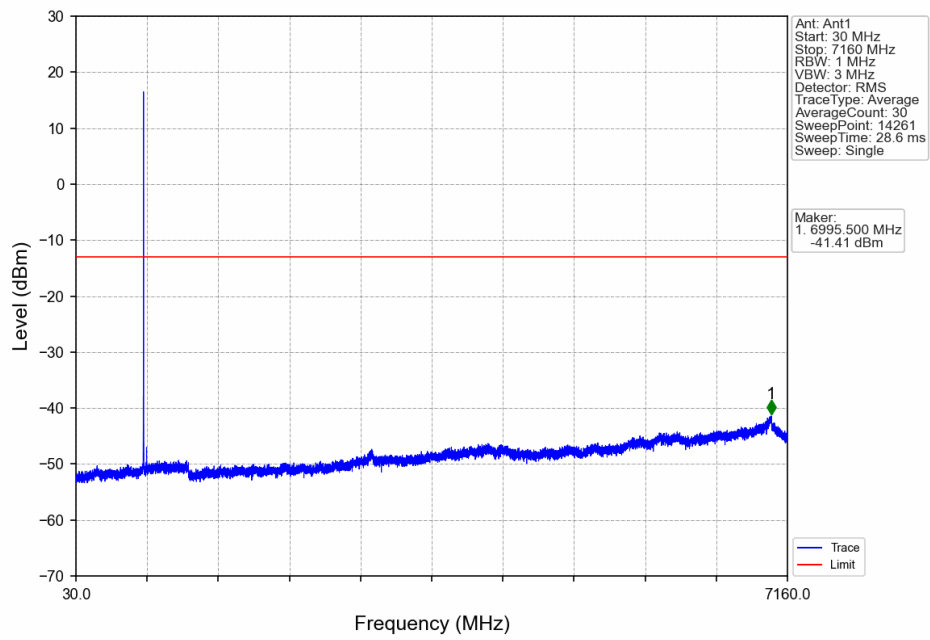
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



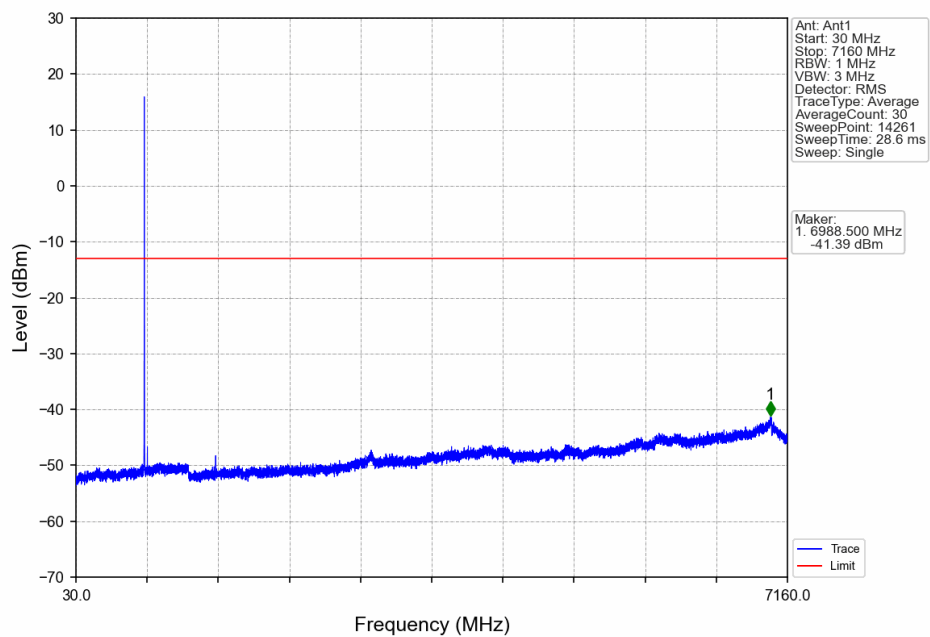
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.733	-32.65	-13	Pass
698.9	699	0.03	/	2	698.976	-36.15	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV

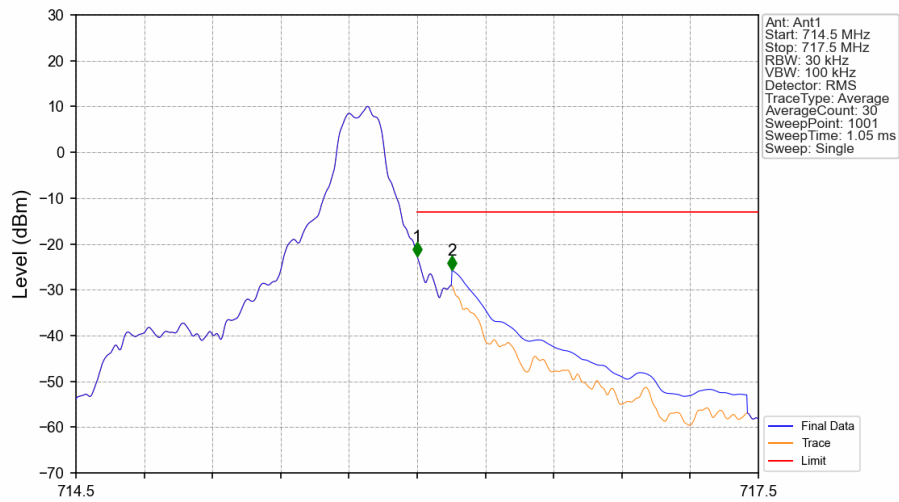


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



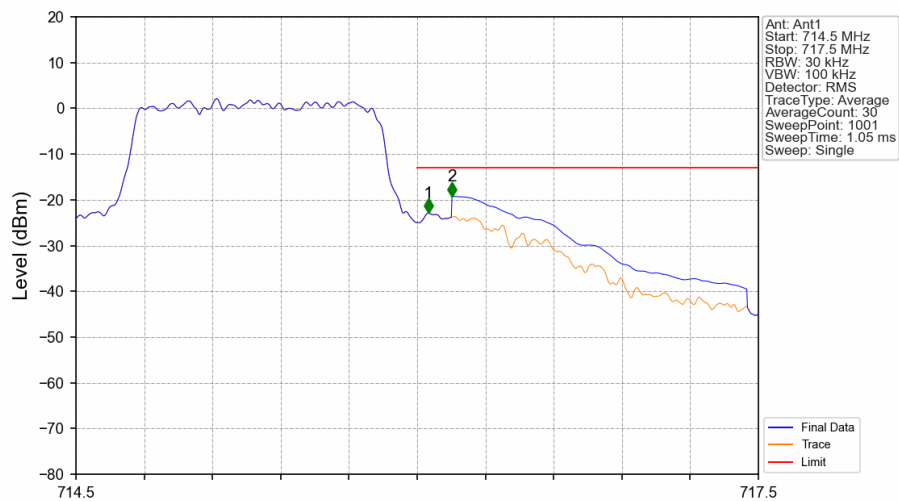


Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 5 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.000	-22.69	-13	Pass
716	716.1	0.03	/	1	716.000	-22.69	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-25.76	-13	Pass

Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.048	-22.92	-13	Pass
716	716.1	0.03	/	1	716.048	-22.92	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-19.24	-13	Pass



6.2 B12_3MHz

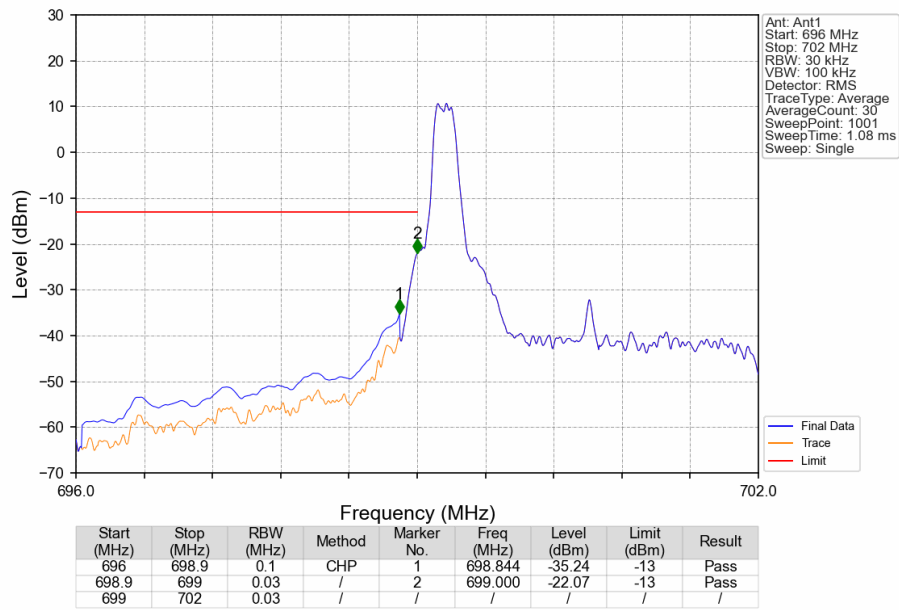
6.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

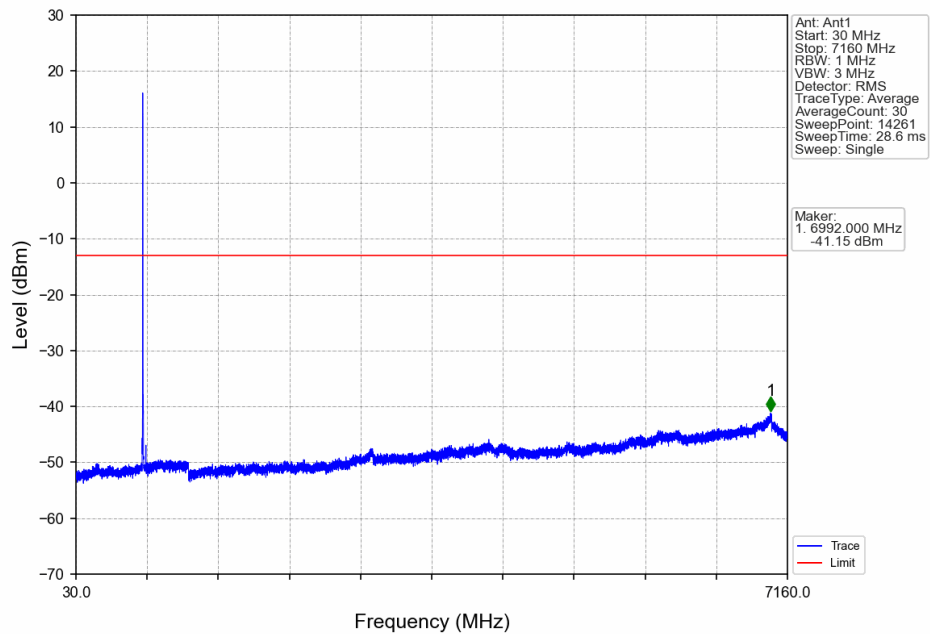


6.2.2 Test Graph

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

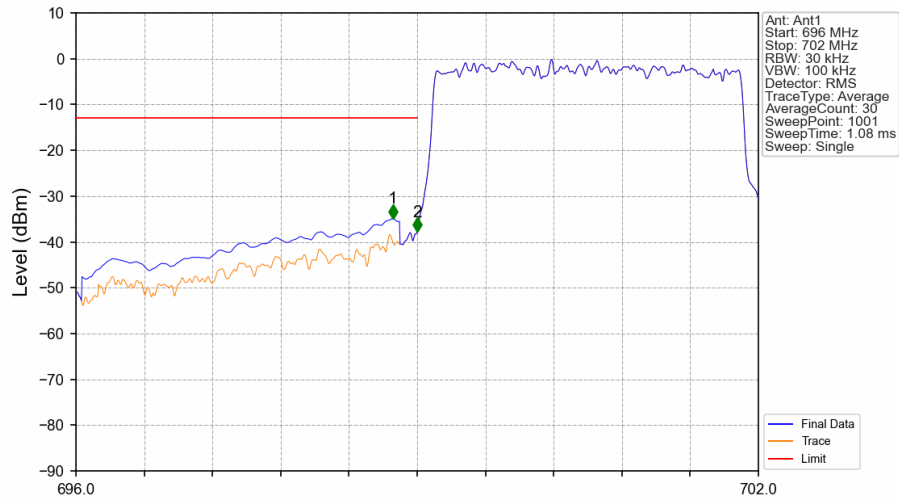


Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



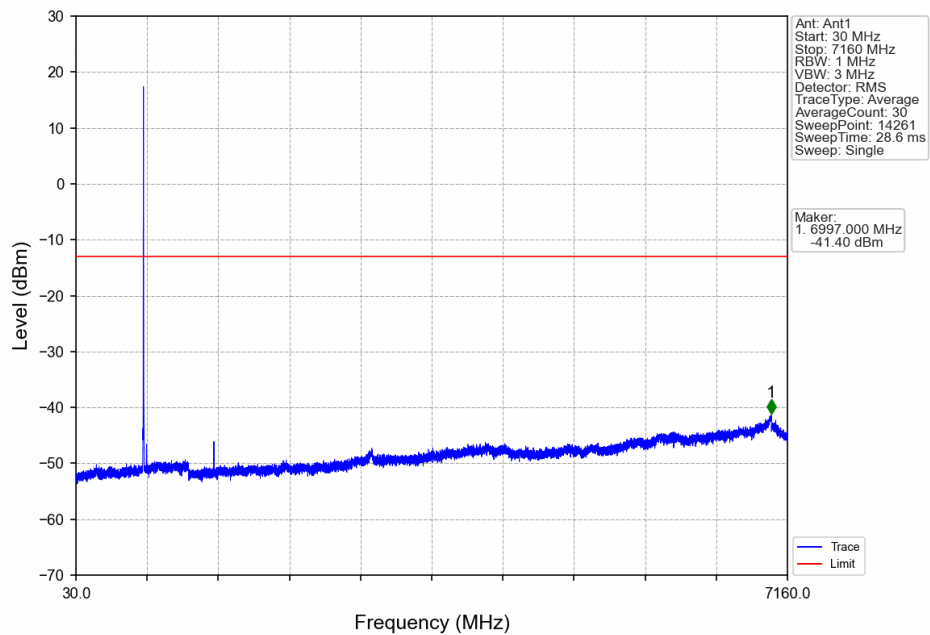


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



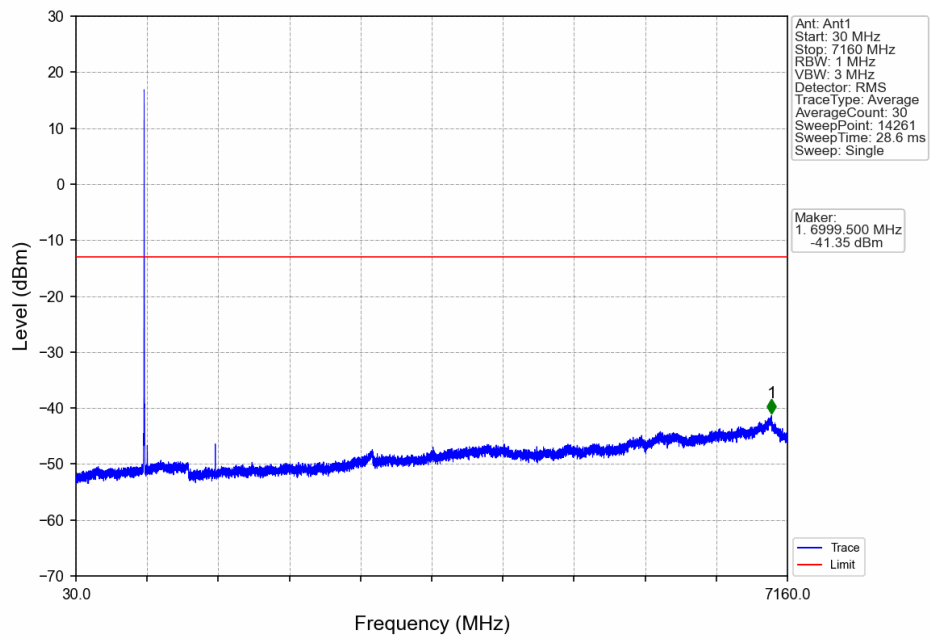
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.784	-34.91	-13	Pass
698.9	699	0.03	/	2	699.000	-37.78	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

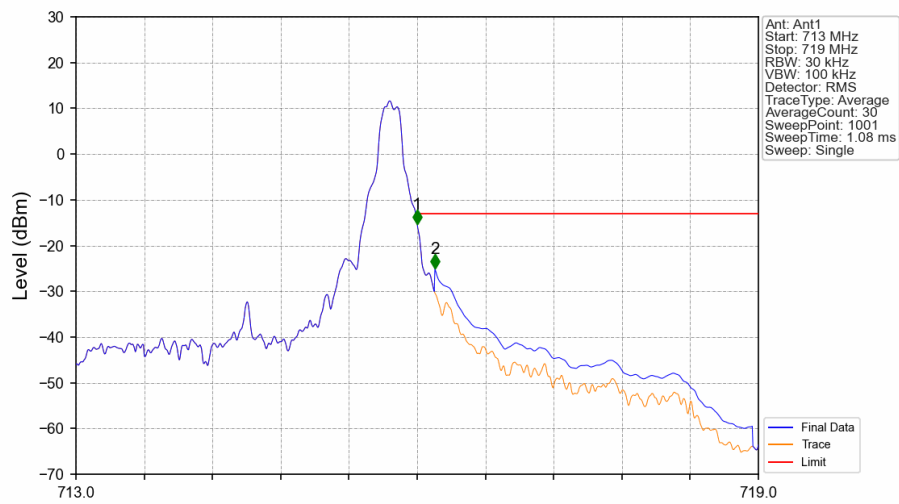




Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



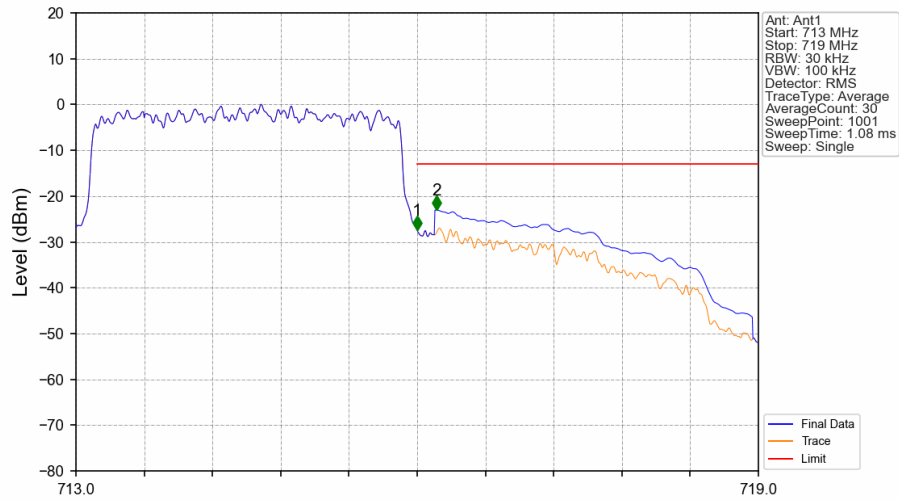
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.000	-15.28	-13	Pass
716	716.1	0.03	/	2	716.156	-25.04	-13	Pass
716.1	719	0.1	CHP					

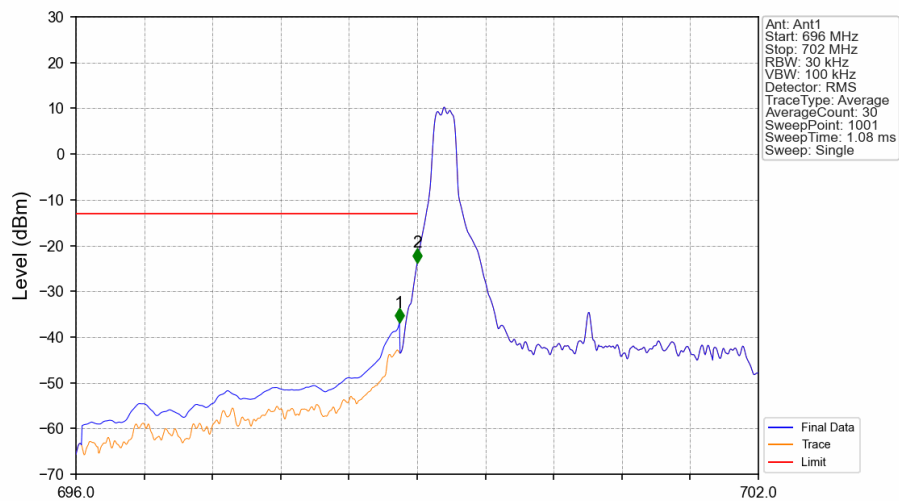


Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.000	-27.43	-13	Pass
716.1	719	0.1	CHP	2	716.168	-23.03	-13	Pass

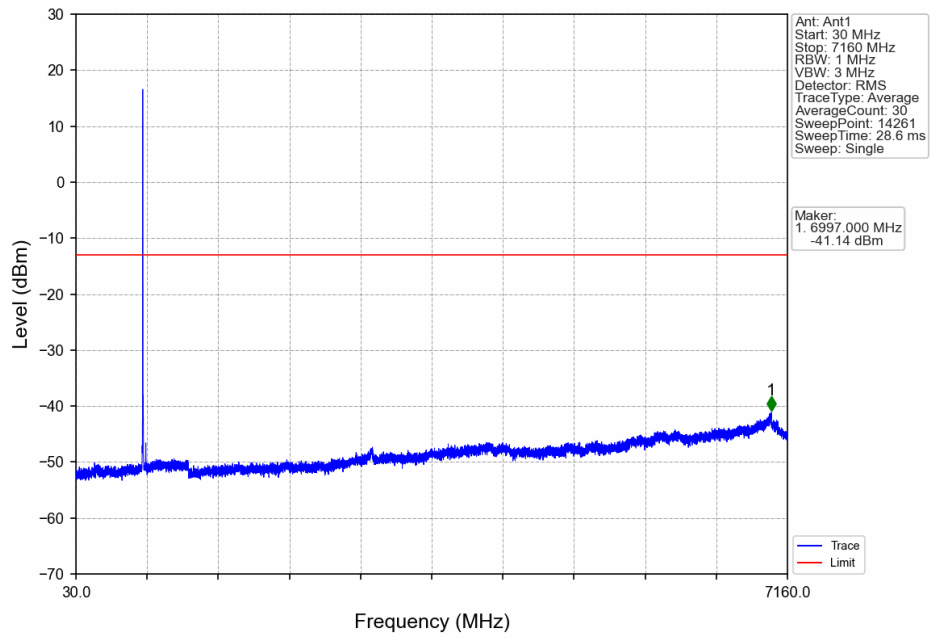
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



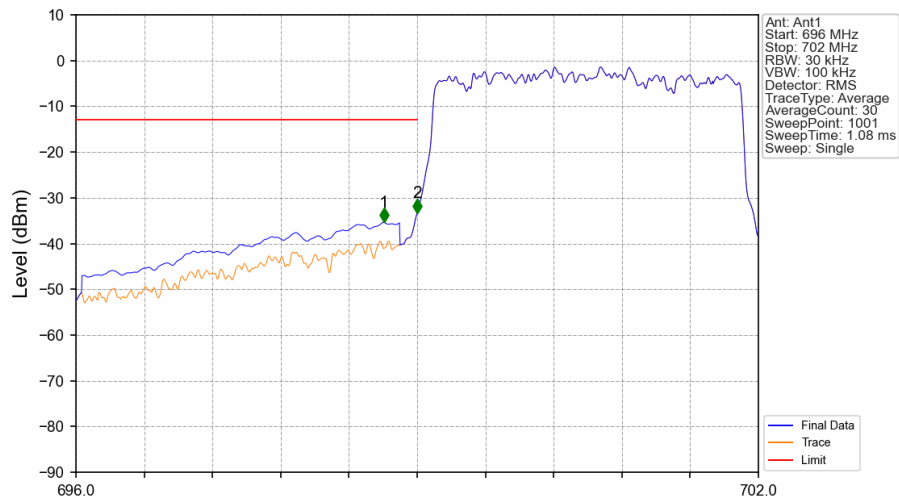
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-36.91	-13	Pass
698.9	699	0.03	/	2	699.000	-23.71	-13	Pass
699	702	0.03	/	/	/	/	/	/



Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



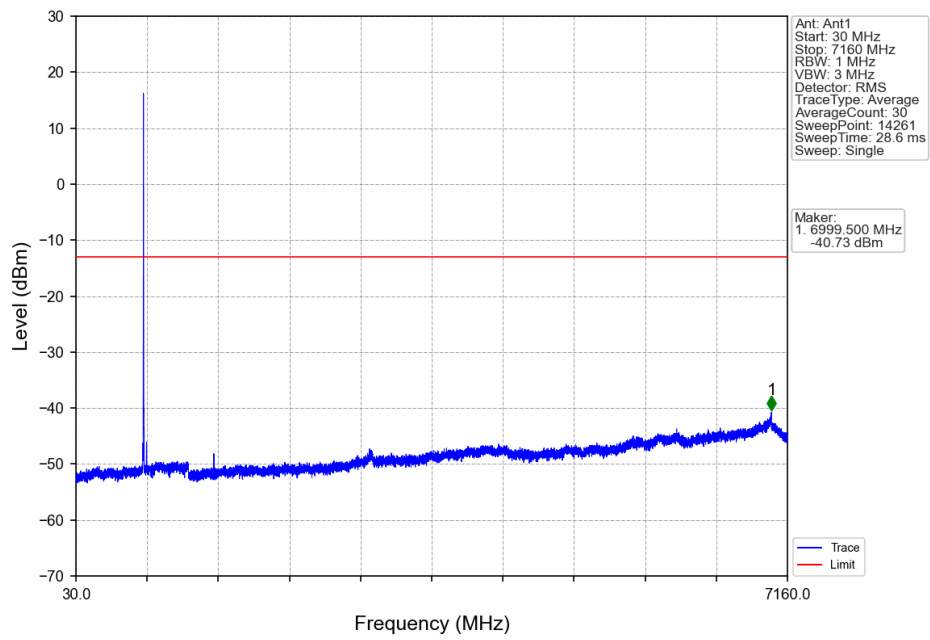
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



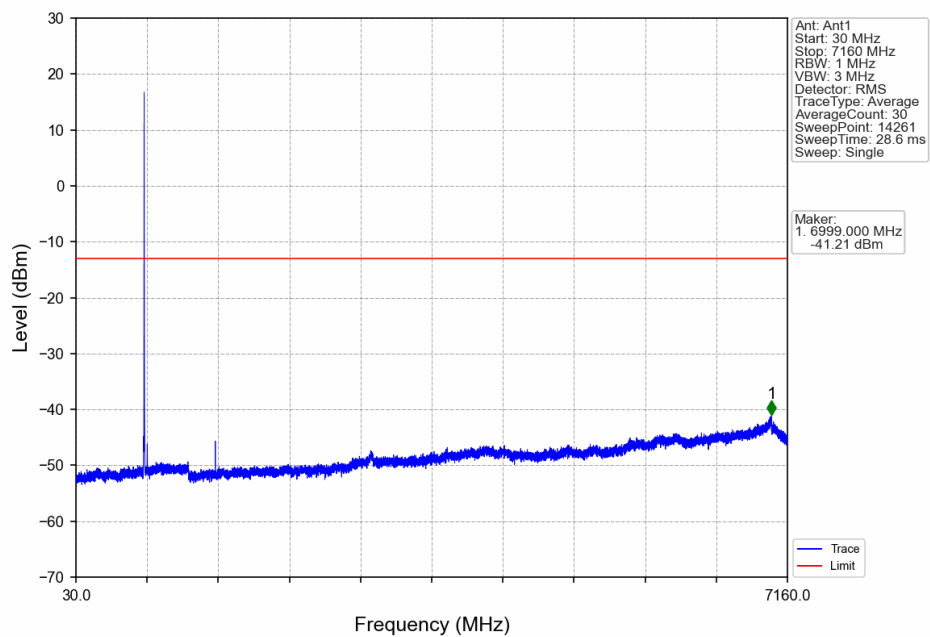
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.706	-35.38	-13	Pass
698.9	699	0.03	/	2	699.000	-33.31	-13	Pass
699	702	0.03	/	/	/	/	/	/



Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV

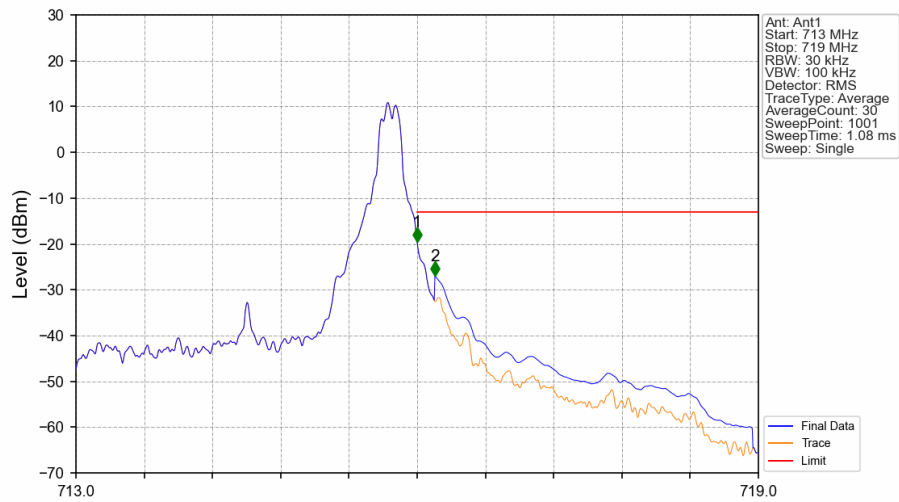


Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



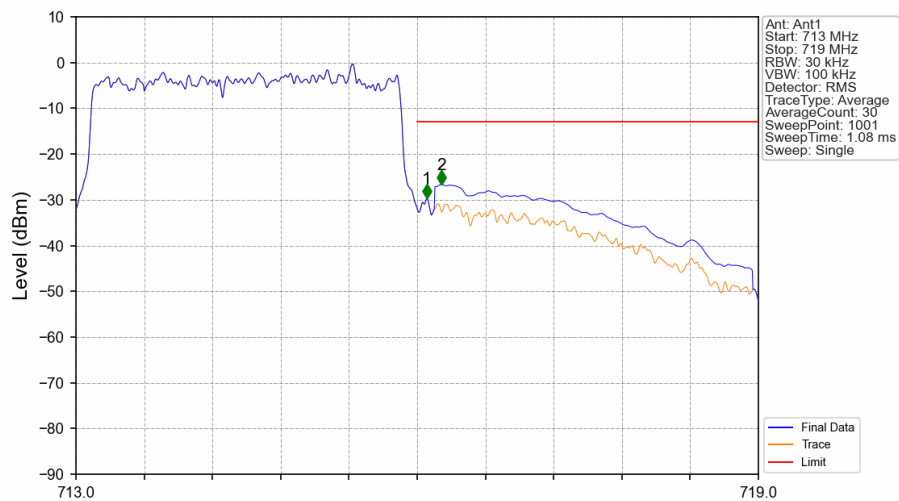


Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.000	-19.59	-13	Pass
716.1	719	0.1	CHP	2	716.156	-26.98	-13	Pass

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.084	-29.75	-13	Pass
716.1	719	0.1	CHP	2	716.216	-26.64	-13	Pass



6.3 B12_5MHz

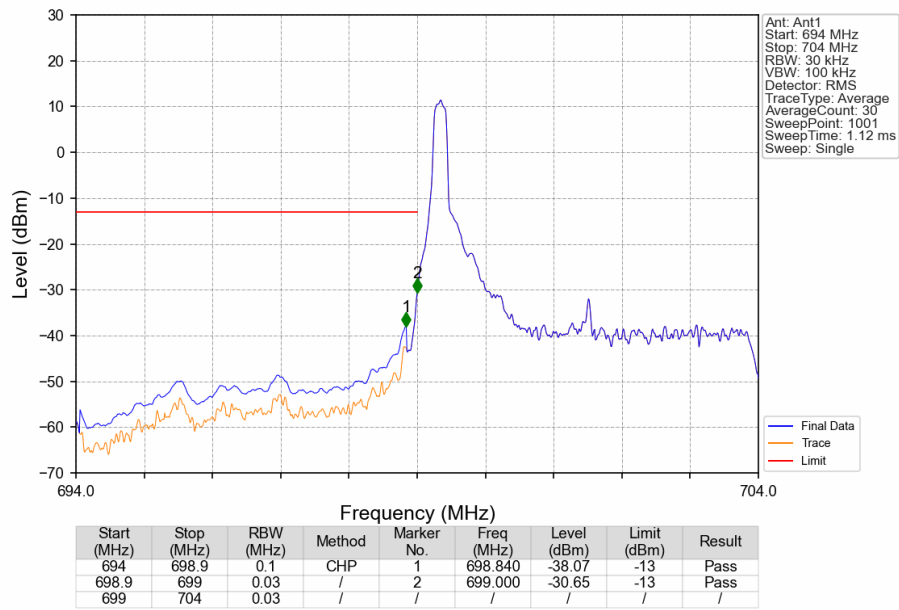
6.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	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
16QAM	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	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

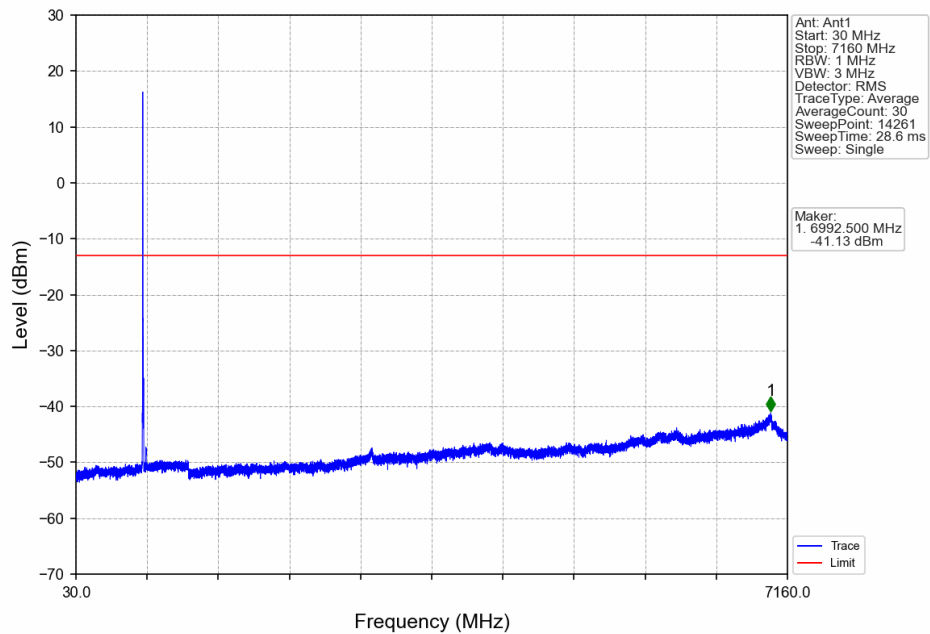


6.3.2 Test Graph

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

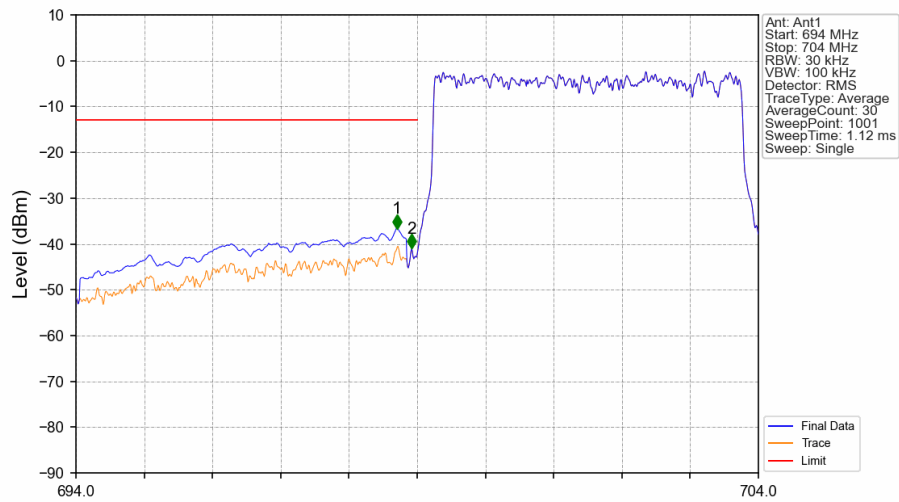


Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



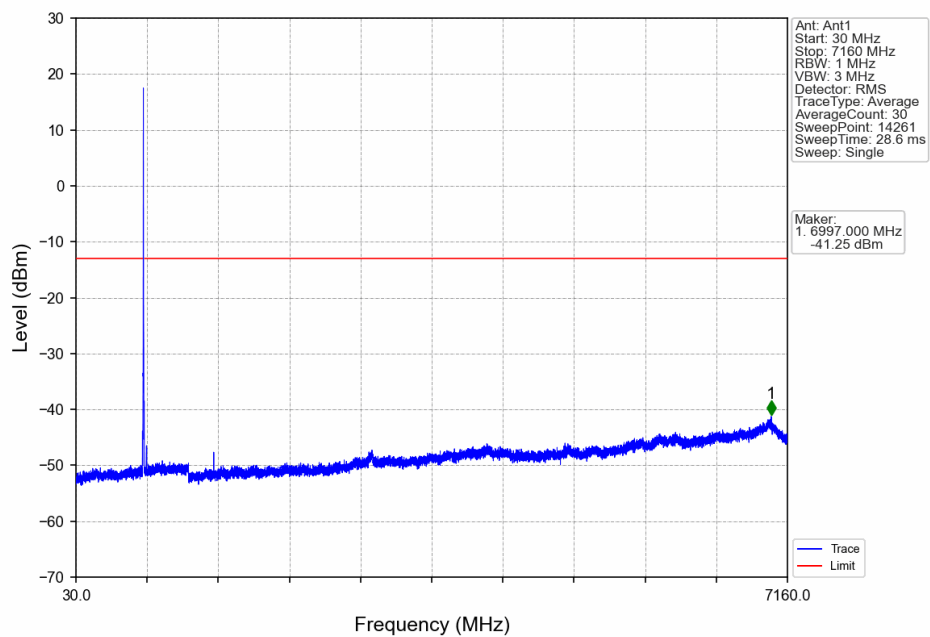


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



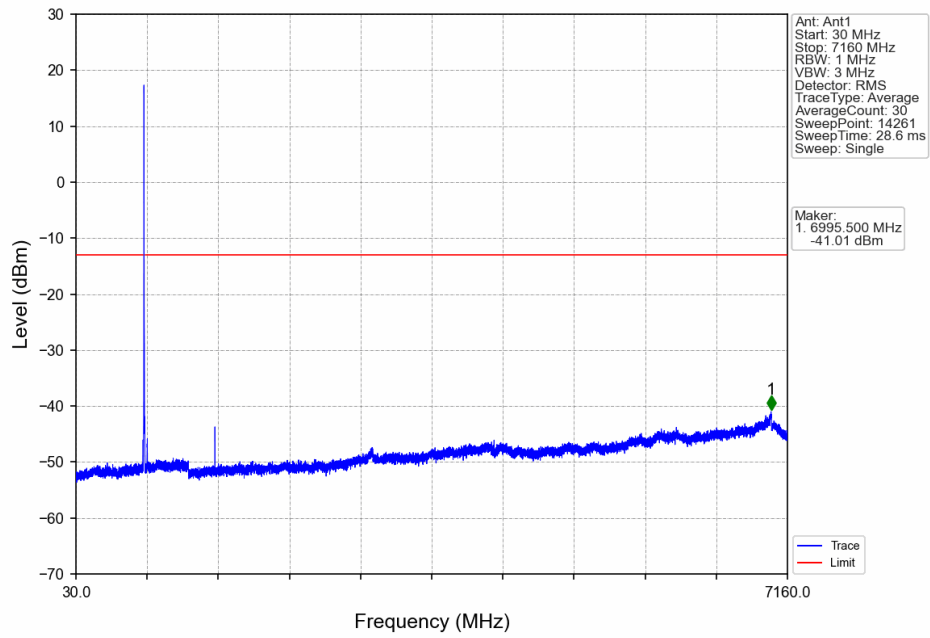
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.700	-36.65	-13	Pass
698.9	699	0.03	/	2	698.920	-40.98	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

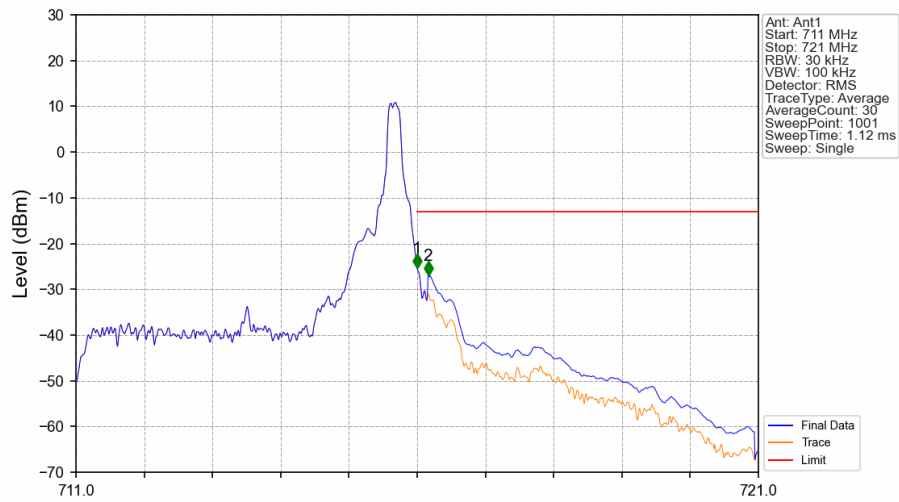




Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



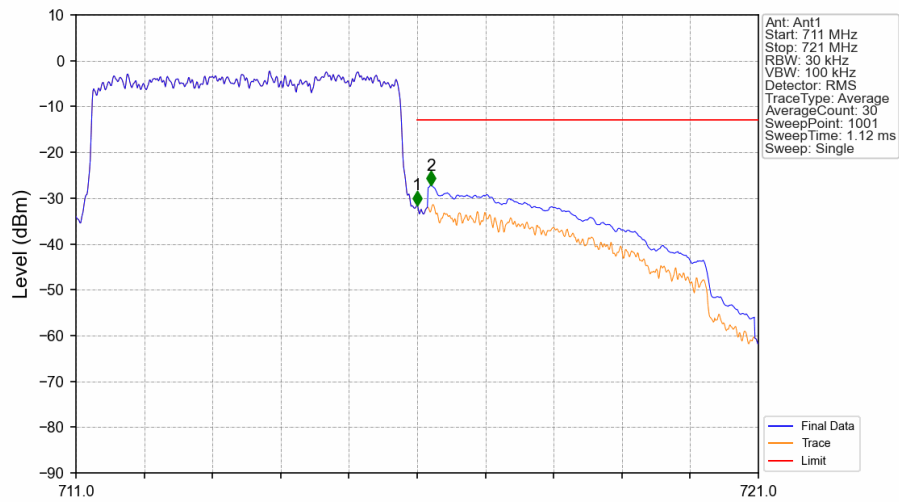
Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-25.42	-13	Pass
716	716.1	0.03	/	2	716.000	-25.42	-13	Pass
716.1	721	0.1	CHP	2	716.160	-27.04	-13	Pass

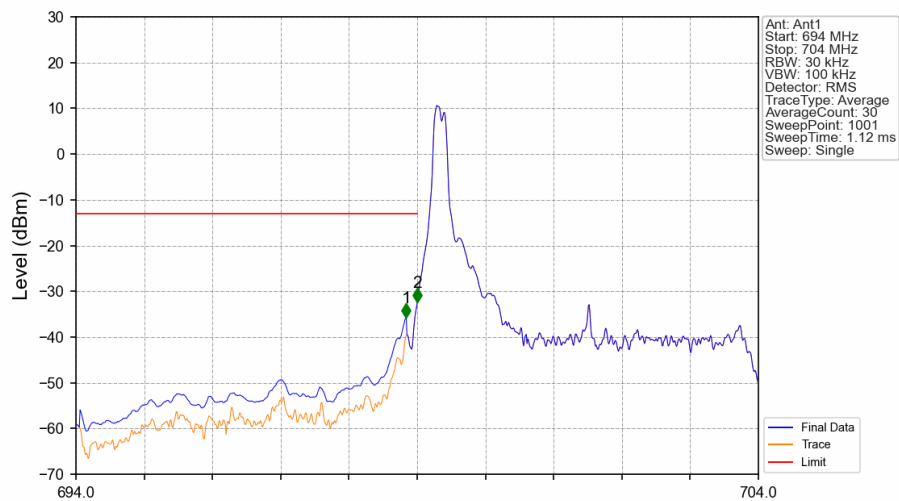


Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-31.55	-13	Pass
716.1	721	0.1	CHP	2	716.200	-27.24	-13	Pass

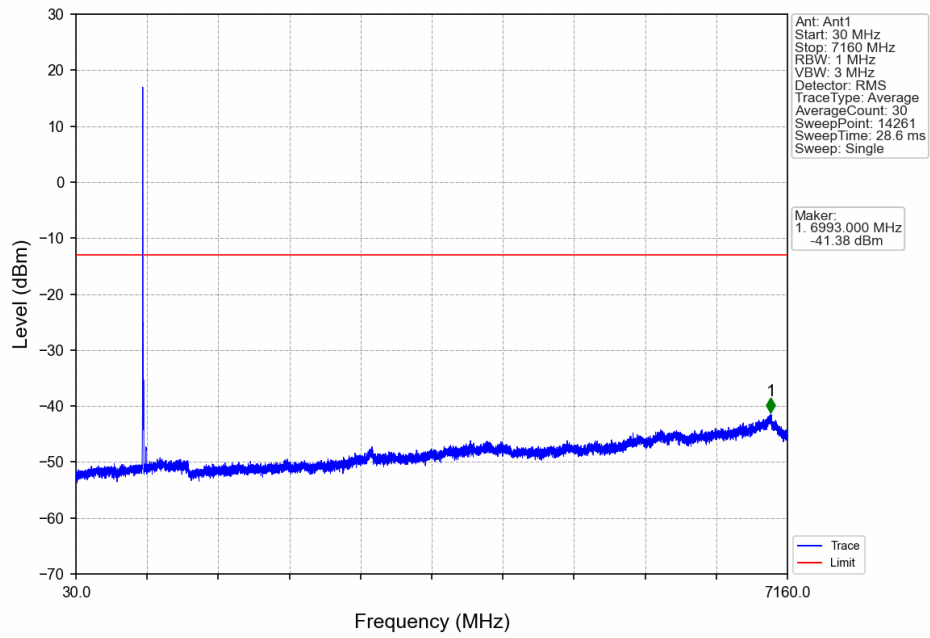
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



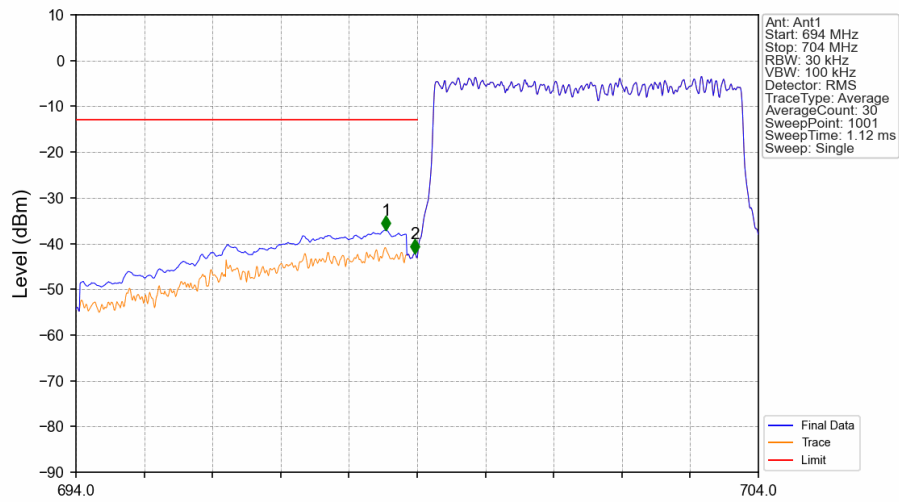
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-35.75	-13	Pass
698.9	699	0.03	/	2	699.000	-32.51	-13	Pass
699	704	0.03	/	/	/	/	/	/



Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



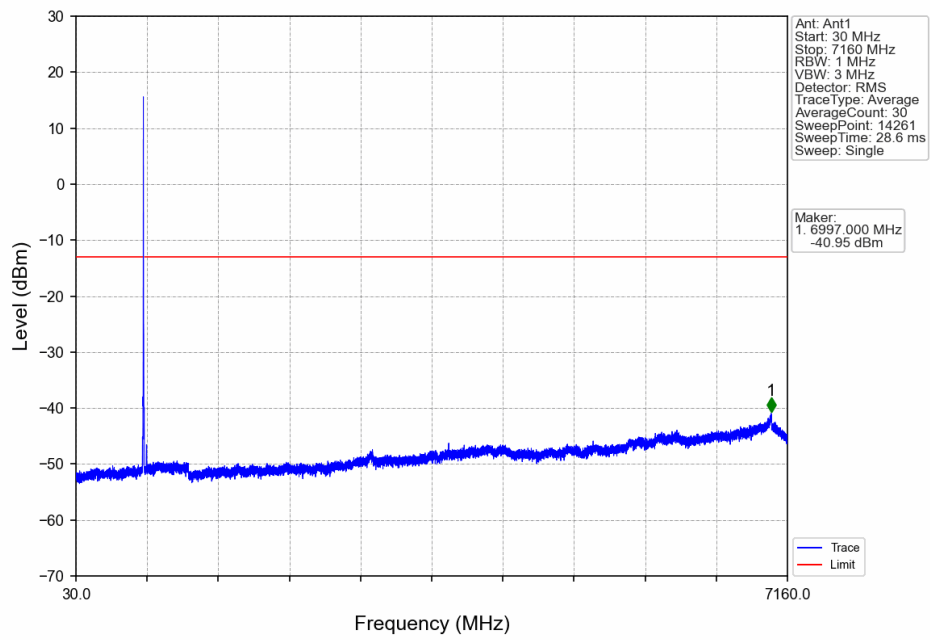
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



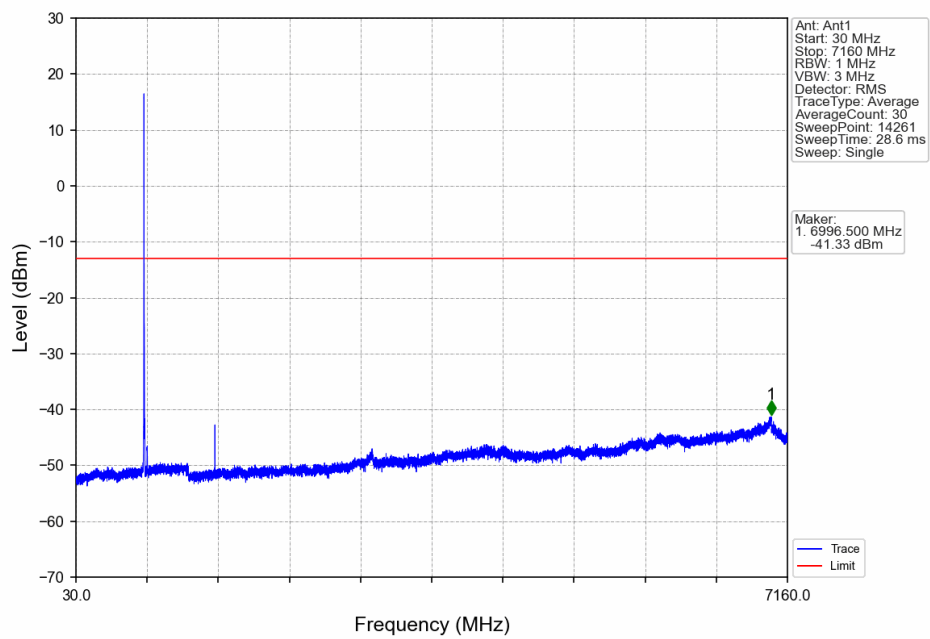
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.540	-37.06	-13	Pass
698.9	699	0.03	/	2	698.970	-42.20	-13	Pass
699	704	0.03	/	/	/	/	/	/



Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV

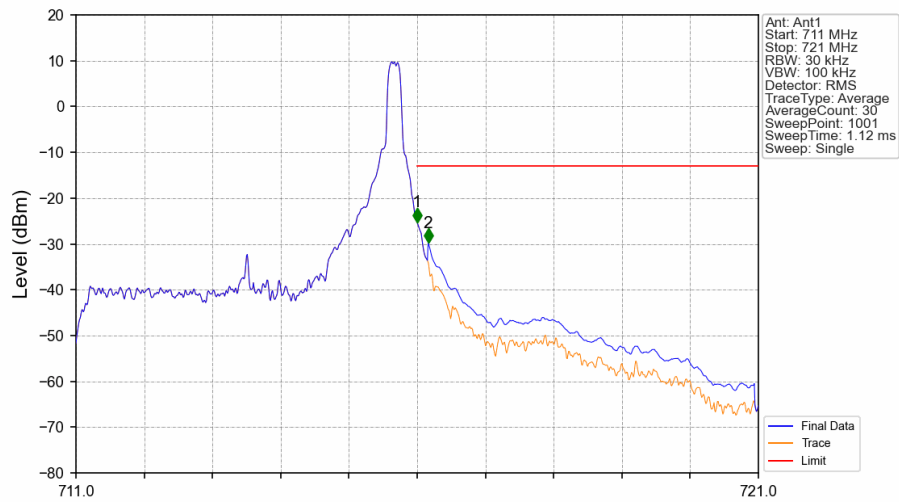


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



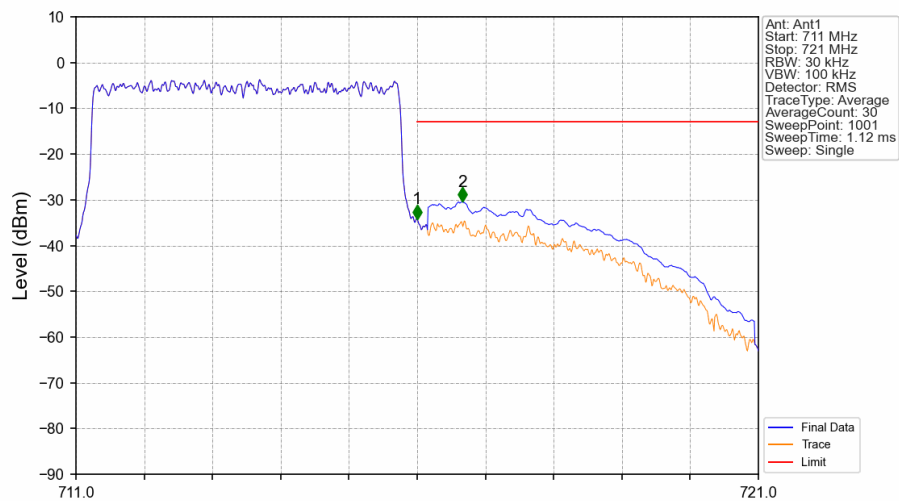


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-25.26	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.76	-13	Pass

Band12_5MHz_16QAM_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	/	1	716.000	-34.18	-13	Pass
716.1	721	0.1	CHP	2	716.660	-30.45	-13	Pass



6.4 B12_10MHz

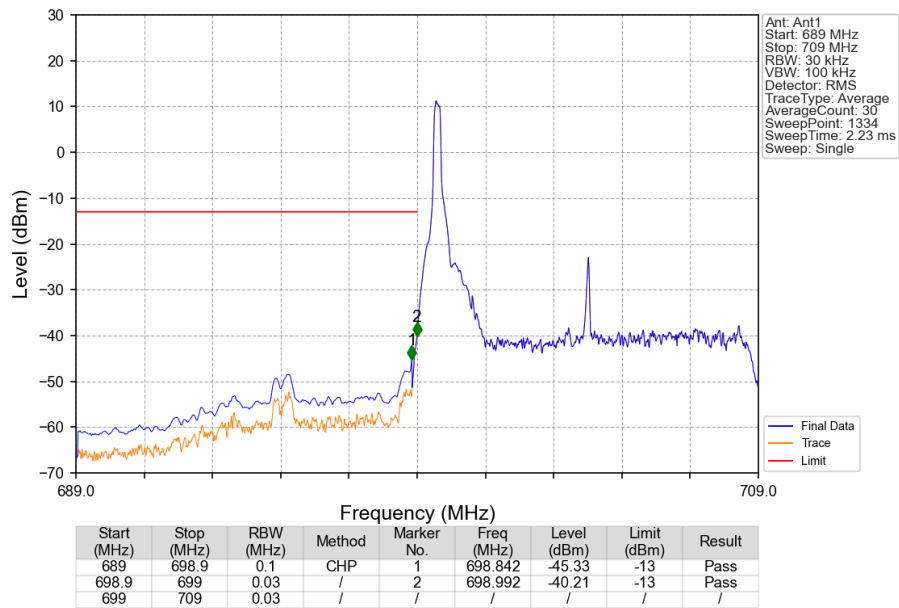
6.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	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
			0	Refer To Test Graph		Pass
16QAM	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	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

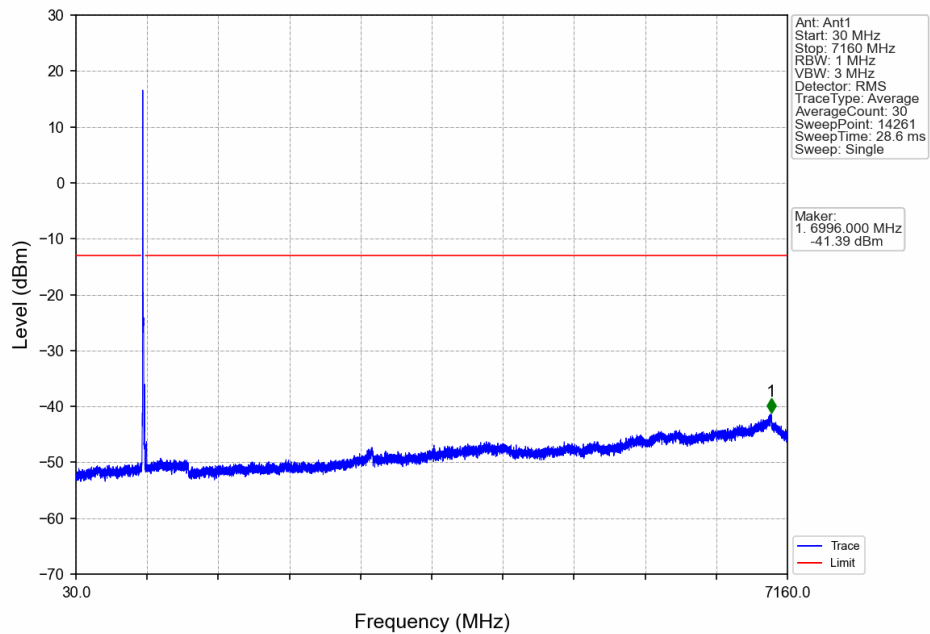


6.4.2 Test Graph

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

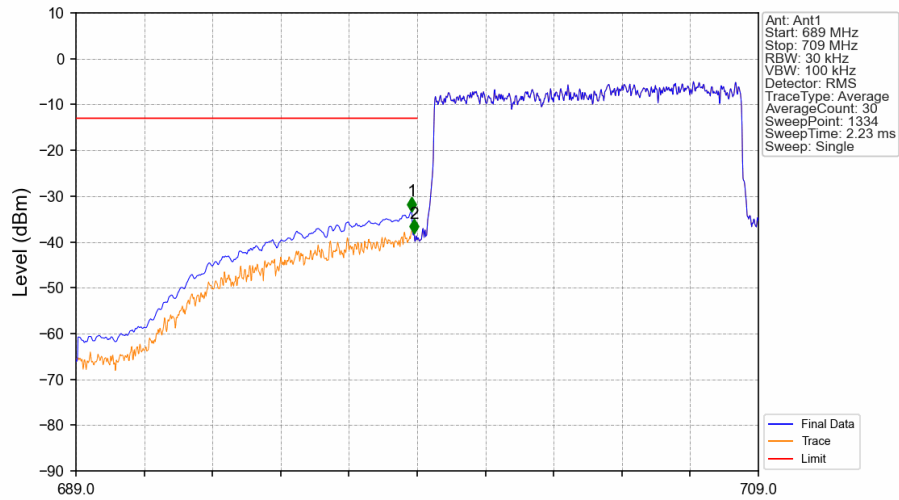


Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



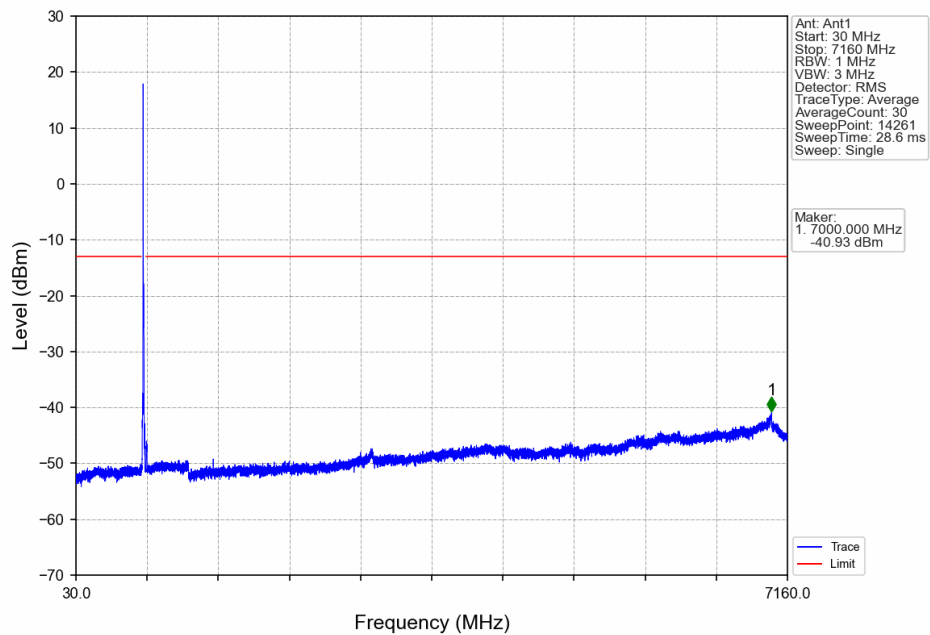


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



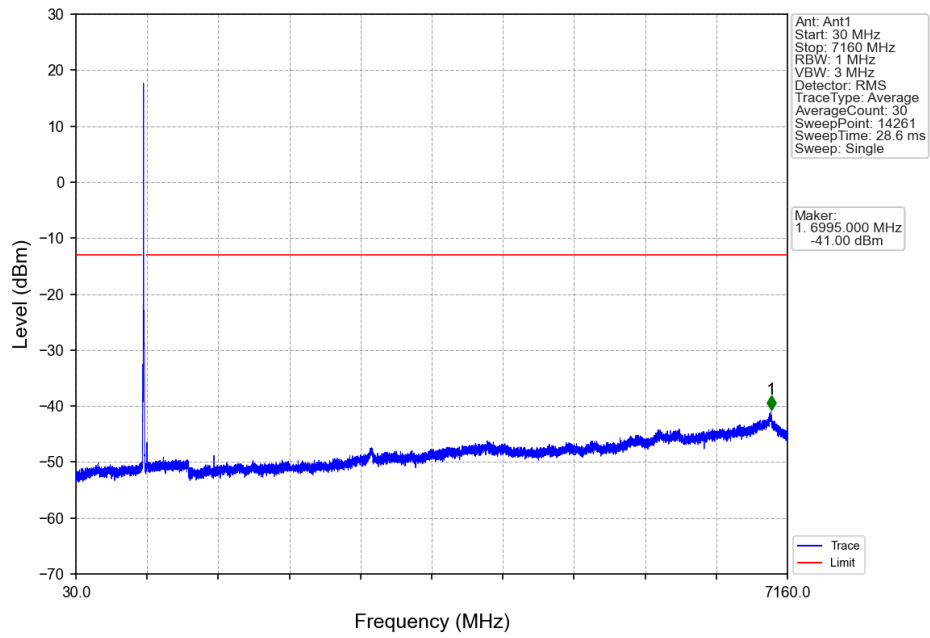
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-33.31	-13	Pass
698.9	699	0.03	/	2	698.902	-38.12	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

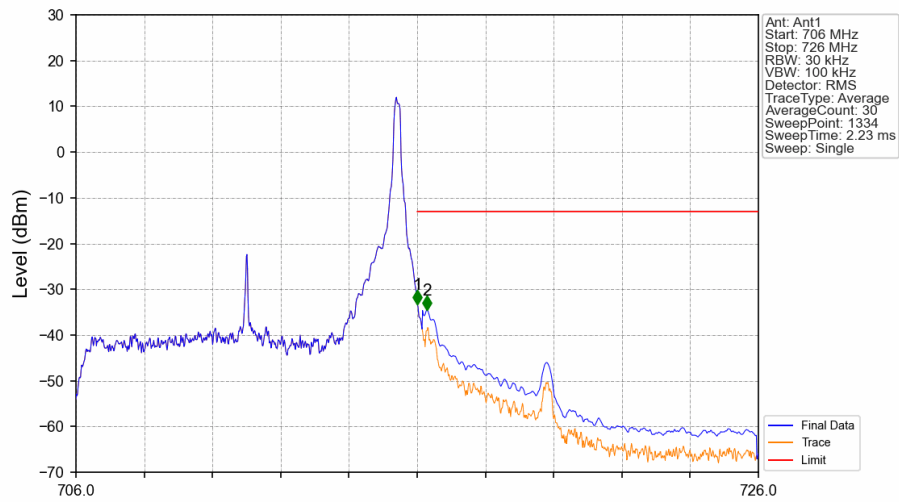




Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



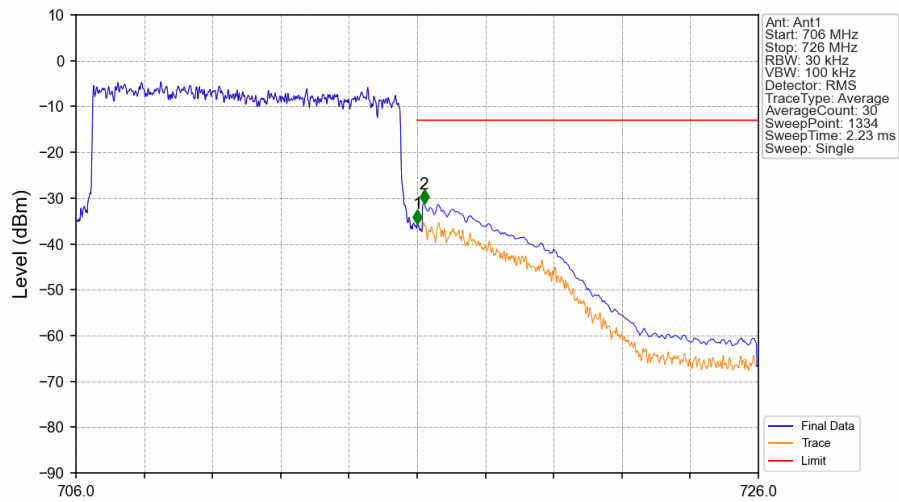
Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-33.35	-13	Pass
716.1	726	0.1	CHP	2	716.293	-34.56	-13	Pass

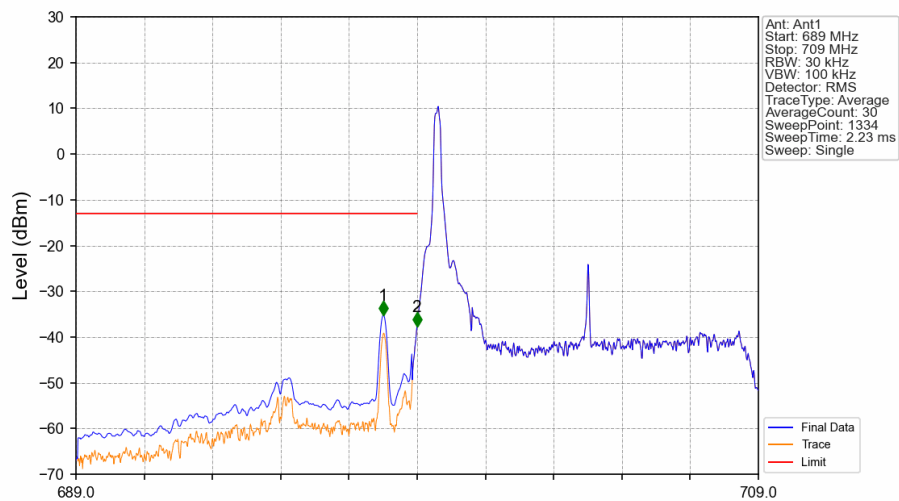


Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-35.62	-13	Pass
716.1	726	0.1	CHP	2	716.203	-31.23	-13	Pass

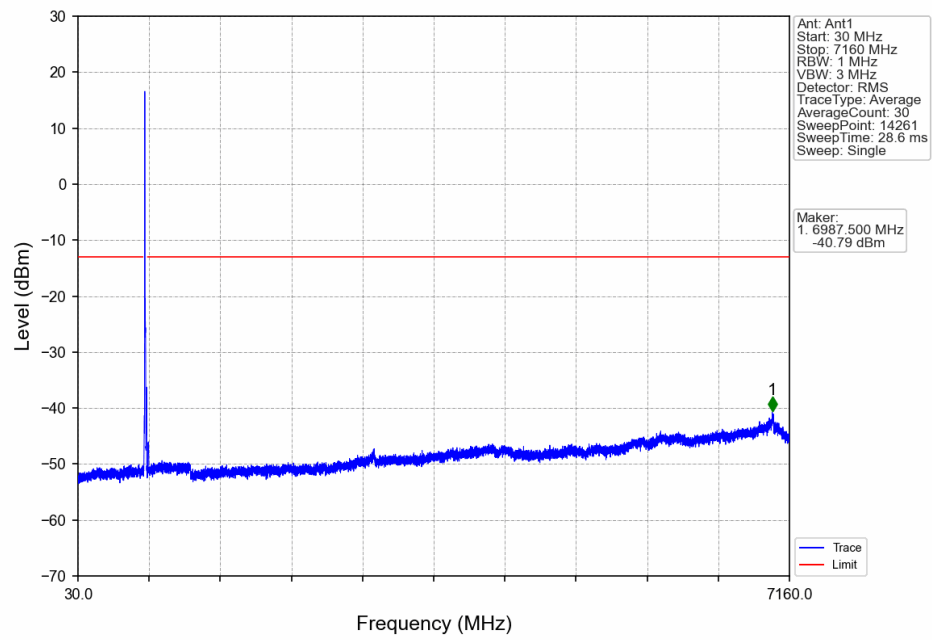
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



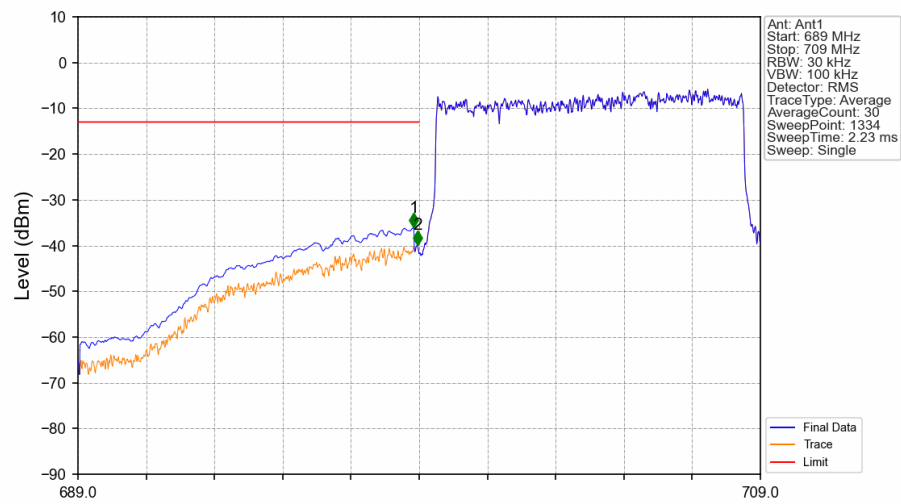
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	699	0.1	CHP	1	698.002	-35.22	-13	Pass
698.9	709	0.03	/	2	698.992	-37.80	-13	Pass



Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



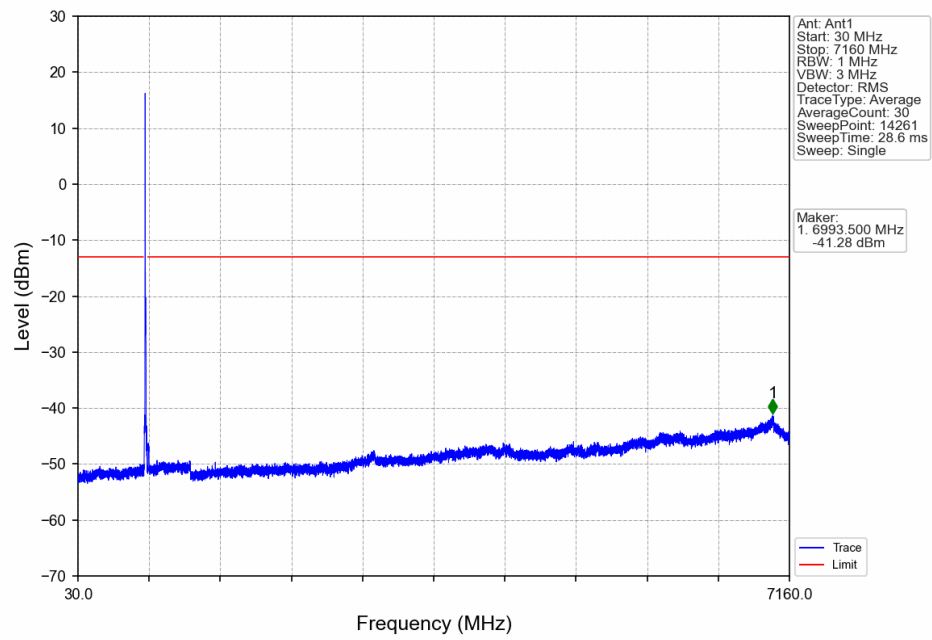
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



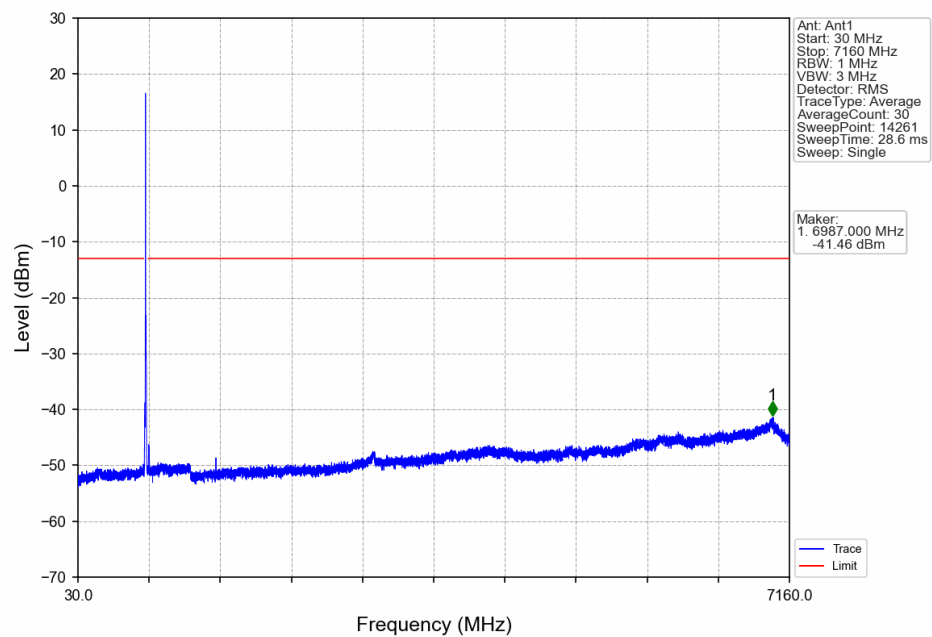
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-36.07	-13	Pass
698.9	699	0.03	/	2	698.947	-39.84	-13	Pass
699	709	0.03	/	/	/	/	/	/



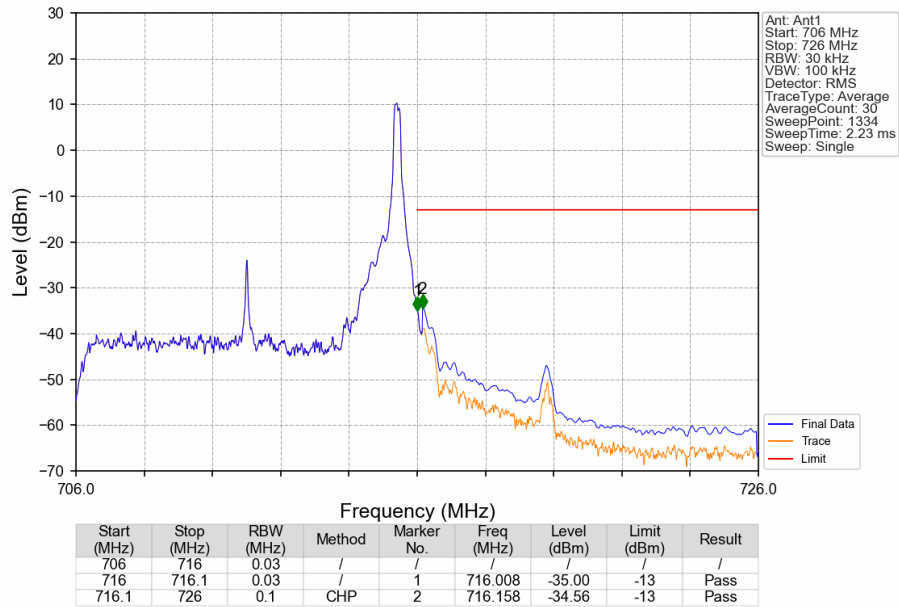
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



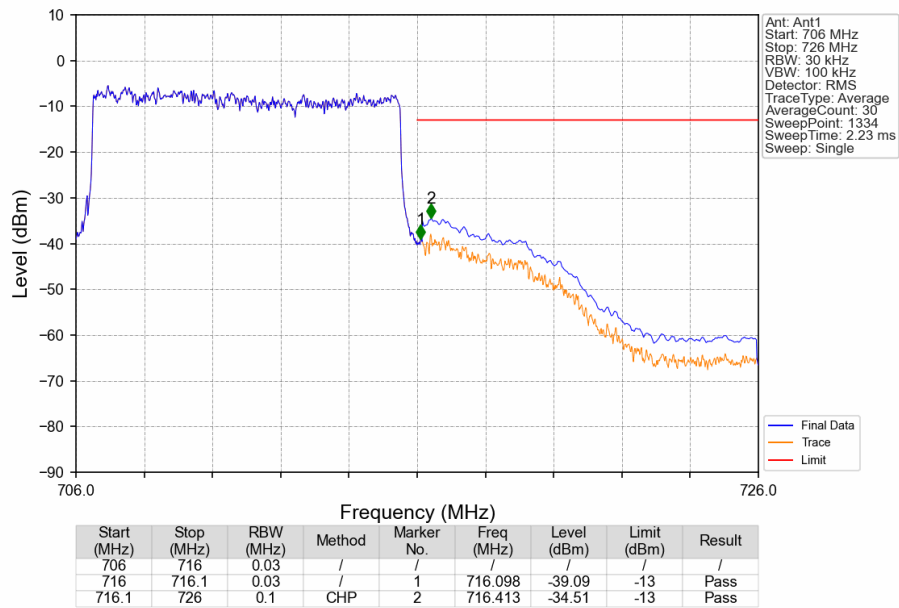
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV





7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.2404	0.0129	ppm	1M20G7D	27H	23.81
12	1.4	699.7	715.3	0.1824	0.0126	ppm	1M11W7D	27H	22.61
12	3	700.5	714.5	0.2432	0.0242	ppm	2M74G7D	27H	23.86
12	3	700.5	714.5	0.1919	0.0103	ppm	2M74W7D	27H	22.83
12	5	701.5	713.5	0.2449	0.0119	ppm	4M54G7D	27H	23.89
12	5	701.5	713.5	0.1884	0.0127	ppm	4M53W7D	27H	22.75
12	10	704	711	0.2535	0.0099	ppm	9M01G7D	27H	24.04
12	10	704	711	0.1963	0.0093	ppm	9M03W7D	27H	22.93

7.2 Form731_ERP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.1574	0.0129	ppm	1M20G7D	27H	21.97
12	1.4	699.7	715.3	0.1194	0.0126	ppm	1M11W7D	27H	20.77
12	3	700.5	714.5	0.1592	0.0242	ppm	2M74G7D	27H	22.02
12	3	700.5	714.5	0.1256	0.0103	ppm	2M74W7D	27H	20.99
12	5	701.5	713.5	0.1603	0.0119	ppm	4M54G7D	27H	22.05
12	5	701.5	713.5	0.1233	0.0127	ppm	4M53W7D	27H	20.91
12	10	704	711	0.1660	0.0099	ppm	9M01G7D	27H	22.20
12	10	704	711	0.1285	0.0093	ppm	9M03W7D	27H	21.09