1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	21.91	-1.10	18.66	<=34.77	Pass
			2	22.00	-1.10	18.75	<=34.77	Pass
			5	21.94	-1.10	18.69	<=34.77	Pass
		3	0	22.06	-1.10	18.81	<=34.77	Pass
			2	22.08	-1.10	18.83	<=34.77	Pass
			3	22.08	-1.10	18.83	<=34.77	Pass
		6	0	21.04	-1.10	17.79	<=34.77	Pass
	707.5	1	0	21.98	-1.10	18.73	<=34.77	Pass
			2	22.06	-1.10	18.81	<=34.77	Pass
			5	21.97	-1.10	18.72	<=34.77	Pass
		3	0	22.09	-1.10	18.84	<=34.77	Pass
			2	22.08	-1.10	18.83	<=34.77	Pass
			3	22.10	-1.10	18.85	<=34.77	Pass
		6	0	21.00	-1.10	17.75	<=34.77	Pass
	715.3	1	0	21.90	-1.10	18.65	<=34.77	Pass
			2	21.98	-1.10	18.73	<=34.77	Pass
			5	21.91	-1.10	18.66	<=34.77	Pass
		3	0	22.07	-1.10	18.82	<=34.77	Pass
			2	22.06	-1.10	18.81	<=34.77	Pass
			3	22.06	-1.10	18.81	<=34.77	Pass
		6	0	20.99	-1.10	17.74	<=34.77	Pass
16QAM	699.7	1	0	21.15	-1.10	17.90	<=34.77	Pass
			2	21.28	-1.10	18.03	<=34.77	Pass
			5	21.24	-1.10	17.99	<=34.77	Pass
		3	0	21.15	-1.10	17.90	<=34.77	Pass
			2	21.18	-1.10	17.93	<=34.77	Pass
			3	21.19	-1.10	17.94	<=34.77	Pass
		6	0	20.10	-1.10	16.85	<=34.77	Pass
	707.5	1	0	21.05	-1.10	17.80	<=34.77	Pass
			2	21.15	-1.10	17.90	<=34.77	Pass
			5	21.11	-1.10	17.86	<=34.77	Pass
		3	0	21.27	-1.10	18.02	<=34.77	Pass
			2	21.25	-1.10	18.00	<=34.77	Pass
			3	21.23	-1.10	17.98	<=34.77	Pass
		6	0	20.00	-1.10	16.75	<=34.77	Pass
	715.3	1	0	21.03	-1.10	17.78	<=34.77	Pass
			2	21.10	-1.10	17.85	<=34.77	Pass
			5	21.00	-1.10	17.75	<=34.77	Pass
		3	0	21.35	-1.10	18.10	<=34.77	Pass
			2	21.38	-1.10	18.13	<=34.77	Pass
			3	21.37	-1.10	18.12	<=34.77	Pass
		6	0	20.08	-1.10	16.83	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	22.02	-1.10	18.77	<=34.77	Pass
			7	22.11	-1.10	18.86	<=34.77	Pass
			14	21.99	-1.10	18.74	<=34.77	Pass
		8	0	21.09	-1.10	17.84	<=34.77	Pass
			4	21.13	-1.10	17.88	<=34.77	Pass
			7	21.04	-1.10	17.79	<=34.77	Pass
		15	0	21.11	-1.10	17.86	<=34.77	Pass
	707.5	1	0	22.11	-1.10	18.86	<=34.77	Pass
			7	22.18	-1.10	18.93	<=34.77	Pass
			14	22.07	-1.10	18.82	<=34.77	Pass
		8	0	21.11	-1.10	17.86	<=34.77	Pass
			4	21.16	-1.10	17.91	<=34.77	Pass
			7	21.11	-1.10	17.86	<=34.77	Pass
		15	0	21.12	-1.10	17.87	<=34.77	Pass
	714.5	1	0	22.05	-1.10	18.80	<=34.77	Pass
			7	22.19	-1.10	18.94	<=34.77	Pass
			14	22.05	-1.10	18.80	<=34.77	Pass
		8	0	21.16	-1.10	17.91	<=34.77	Pass
			4	21.15	-1.10	17.90	<=34.77	Pass
			7	21.13	-1.10	17.88	<=34.77	Pass
		15	0	21.15	-1.10	17.90	<=34.77	Pass
16QAM	700.5	1	0	21.75	-1.10	18.50	<=34.77	Pass
			7	21.84	-1.10	18.59	<=34.77	Pass
			14	21.77	-1.10	18.52	<=34.77	Pass
		8	0	20.33	-1.10	17.08	<=34.77	Pass
			4	20.38	-1.10	17.13	<=34.77	Pass
			7	20.31	-1.10	17.06	<=34.77	Pass
		15	0	20.24	-1.10	16.99	<=34.77	Pass
	707.5	1	0	21.34	-1.10	18.09	<=34.77	Pass
			7	21.44	-1.10	18.19	<=34.77	Pass
			14	21.31	-1.10	18.06	<=34.77	Pass
		8	0	20.12	-1.10	16.87	<=34.77	Pass
			4	20.19	-1.10	16.94	<=34.77	Pass
			7	20.14	-1.10	16.89	<=34.77	Pass
		15	0	20.16	-1.10	16.91	<=34.77	Pass
	714.5	1	0	21.17	-1.10	17.92	<=34.77	Pass
			7	21.29	-1.10	18.04	<=34.77	Pass
			14	21.16	-1.10	17.91	<=34.77	Pass
		8	0	20.25	-1.10	17.00	<=34.77	Pass
			4	20.27	-1.10	17.02	<=34.77	Pass
			7	20.25	-1.10	17.00	<=34.77	Pass
		15	0	20.25	-1.10	17.00	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.3 B12_5MHz_ERP

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	21.99	-1.10	18.74	<=34.77	Pass
			13	22.08	-1.10	18.83	<=34.77	Pass
			24	22.05	-1.10	18.80	<=34.77	Pass

		12	0	21.26	-1.10	18.01	<=34.77	Pass
			6	21.22	-1.10	17.97	<=34.77	Pass
			13	21.13	-1.10	17.88	<=34.77	Pass
		25	0	21.19	-1.10	17.94	<=34.77	Pass
	707.5	1	0	22.01	-1.10	18.76	<=34.77	Pass
			13	22.08	-1.10	18.83	<=34.77	Pass
			24	21.97	-1.10	18.72	<=34.77	Pass
		12	0	21.04	-1.10	17.79	<=34.77	Pass
			6	21.17	-1.10	17.92	<=34.77	Pass
			13	21.19	-1.10	17.94	<=34.77	Pass
		25	0	21.14	-1.10	17.89	<=34.77	Pass
	713.5	1	0	21.96	-1.10	18.71	<=34.77	Pass
			13	22.06	-1.10	18.81	<=34.77	Pass
			24	21.99	-1.10	18.74	<=34.77	Pass
		12	0	21.29	-1.10	18.04	<=34.77	Pass
			6	21.17	-1.10	17.92	<=34.77	Pass
			13	21.16	-1.10	17.91	<=34.77	Pass
		25	0	21.20	-1.10	17.95	<=34.77	Pass
16QAM	701.5	1	0	20.96	-1.10	17.71	<=34.77	Pass
			13	20.95	-1.10	17.70	<=34.77	Pass
			24	21.00	-1.10	17.75	<=34.77	Pass
		12	0	20.32	-1.10	17.07	<=34.77	Pass
			6	20.23	-1.10	16.98	<=34.77	Pass
			13	20.13	-1.10	16.88	<=34.77	Pass
		25	0	20.27	-1.10	17.02	<=34.77	Pass
	707.5	1	0	21.39	-1.10	18.14	<=34.77	Pass
			13	21.44	-1.10	18.19	<=34.77	Pass
			24	21.39	-1.10	18.14	<=34.77	Pass
		12	0	20.12	-1.10	16.87	<=34.77	Pass
			6	20.27	-1.10	17.02	<=34.77	Pass
			13	20.24	-1.10	16.99	<=34.77	Pass
		25	0	20.20	-1.10	16.95	<=34.77	Pass
	713.5	1	0	21.20	-1.10	17.95	<=34.77	Pass
			13	21.24	-1.10	17.99	<=34.77	Pass
			24	21.15	-1.10	17.90	<=34.77	Pass
		12	0	20.29	-1.10	17.04	<=34.77	Pass
			6	20.18	-1.10	16.93	<=34.77	Pass
			13	20.18	-1.10	16.93	<=34.77	Pass
		25	0	20.29	-1.10	17.04	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.4 B12_10MHz_ERP

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	21.95	-1.10	18.70	<=34.77	Pass
			25	22.24	-1.10	18.99	<=34.77	Pass
			49	22.00	-1.10	18.75	<=34.77	Pass
		25	0	21.45	-1.10	18.20	<=34.77	Pass
			13	21.23	-1.10	17.98	<=34.77	Pass
			25	21.43	-1.10	18.18	<=34.77	Pass
		50	0	21.43	-1.10	18.18	<=34.77	Pass
	707.5	1	0	22.01	-1.10	18.76	<=34.77	Pass
			25	22.23	-1.10	18.98	<=34.77	Pass

			49	21.96	-1.10	18.71	<=34.77	Pass
		25	0	21.07	-1.10	17.82	<=34.77	Pass
			13	21.19	-1.10	17.94	<=34.77	Pass
			25	21.20	-1.10	17.95	<=34.77	Pass
		50	0	21.17	-1.10	17.92	<=34.77	Pass
	711	1	0	22.03	-1.10	18.78	<=34.77	Pass
			25	22.20	-1.10	18.95	<=34.77	Pass
			49	22.05	-1.10	18.80	<=34.77	Pass
		25	0	21.05	-1.10	17.80	<=34.77	Pass
			13	21.19	-1.10	17.94	<=34.77	Pass
			25	21.03	-1.10	17.78	<=34.77	Pass
		50	0	21.04	-1.10	17.79	<=34.77	Pass
16QAM	704	1	0	21.70	-1.10	18.45	<=34.77	Pass
			25	21.94	-1.10	18.69	<=34.77	Pass
			49	21.74	-1.10	18.49	<=34.77	Pass
		25	0	20.54	-1.10	17.29	<=34.77	Pass
			13	20.33	-1.10	17.08	<=34.77	Pass
			25	20.54	-1.10	17.29	<=34.77	Pass
		50	0	20.50	-1.10	17.25	<=34.77	Pass
	707.5	1	0	21.30	-1.10	18.05	<=34.77	Pass
			25	21.47	-1.10	18.22	<=34.77	Pass
			49	21.32	-1.10	18.07	<=34.77	Pass
		25	0	20.16	-1.10	16.91	<=34.77	Pass
			13	20.29	-1.10	17.04	<=34.77	Pass
			25	20.29	-1.10	17.04	<=34.77	Pass
		50	0	20.23	-1.10	16.98	<=34.77	Pass
	711	1	0	21.16	-1.10	17.91	<=34.77	Pass
			25	21.31	-1.10	18.06	<=34.77	Pass
			49	21.17	-1.10	17.92	<=34.77	Pass
		25	0	20.21	-1.10	16.96	<=34.77	Pass
			13	20.32	-1.10	17.07	<=34.77	Pass
			25	20.14	-1.10	16.89	<=34.77	Pass
		50	0	20.10	-1.10	16.85	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.6	-7.925	-0.0113	-2.5 to 2.5	Pass
					3.85	-7.710	-0.0110	-2.5 to 2.5	Pass
					4.4	-4.177	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-7.296	-0.0104	-2.5 to 2.5	Pass
				-20	3.85	-5.565	-0.0080	-2.5 to 2.5	Pass
				-10	3.85	-10.314	-0.0147	-2.5 to 2.5	Pass
				0	3.85	-8.011	-0.0114	-2.5 to 2.5	Pass
				10	3.85	-2.861	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-7.496	-0.0107	-2.5 to 2.5	Pass
				40	3.85	-6.123	-0.0088	-2.5 to 2.5	Pass
				50	3.85	-7.496	-0.0107	-2.5 to 2.5	Pass
	707.5	6	0	20	3.6	-8.011	-0.0113	-2.5 to 2.5	Pass

					3.85	-25.549	-0.0361	-2.5 to 2.5	Pass
					4.4	-7.839	-0.0111	-2.5 to 2.5	Pass
				-30	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-4.807	-0.0068	-2.5 to 2.5	Pass
				-10	3.85	-5.894	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-9.084	-0.0128	-2.5 to 2.5	Pass
				10	3.85	-5.393	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-7.253	-0.0103	-2.5 to 2.5	Pass
				40	3.85	-5.994	-0.0085	-2.5 to 2.5	Pass
				50	3.85	-8.168	-0.0115	-2.5 to 2.5	Pass
	715.3	6	0	20	3.6	-9.212	-0.0129	-2.5 to 2.5	Pass
					3.85	-4.406	-0.0062	-2.5 to 2.5	Pass
					4.4	-1.731	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-6.723	-0.0094	-2.5 to 2.5	Pass
				-20	3.85	-7.811	-0.0109	-2.5 to 2.5	Pass
				-10	3.85	-5.879	-0.0082	-2.5 to 2.5	Pass
				0	3.85	-8.969	-0.0125	-2.5 to 2.5	Pass
				10	3.85	-4.320	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-7.324	-0.0102	-2.5 to 2.5	Pass
				40	3.85	-7.839	-0.0110	-2.5 to 2.5	Pass
				50	3.85	-10.028	-0.0140	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.6	-5.579	-0.0080	-2.5 to 2.5	Pass
					3.85	-6.337	-0.0091	-2.5 to 2.5	Pass
					4.4	-7.882	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-4.735	-0.0068	-2.5 to 2.5	Pass
				-20	3.85	-3.748	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-3.376	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-5.922	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-5.879	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-11.258	-0.0161	-2.5 to 2.5	Pass
				50	3.85	-6.552	-0.0094	-2.5 to 2.5	Pass
	707.5	6	0	20	3.6	-6.895	-0.0097	-2.5 to 2.5	Pass
					3.85	-3.719	-0.0053	-2.5 to 2.5	Pass
					4.4	-3.476	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-4.120	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-2.646	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-8.526	-0.0121	-2.5 to 2.5	Pass
				0	3.85	-5.622	-0.0079	-2.5 to 2.5	Pass
				10	3.85	-7.825	-0.0111	-2.5 to 2.5	Pass
				30	3.85	-9.542	-0.0135	-2.5 to 2.5	Pass
				40	3.85	-6.580	-0.0093	-2.5 to 2.5	Pass
				50	3.85	-9.584	-0.0135	-2.5 to 2.5	Pass
	715.3	6	0	20	3.6	-6.723	-0.0094	-2.5 to 2.5	Pass
					3.85	-4.420	-0.0062	-2.5 to 2.5	Pass
					4.4	-7.911	-0.0111	-2.5 to 2.5	Pass
				-30	3.85	-8.512	-0.0119	-2.5 to 2.5	Pass
				-20	3.85	-6.895	-0.0096	-2.5 to 2.5	Pass
				-10	3.85	-3.047	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-9.284	-0.0130	-2.5 to 2.5	Pass
				10	3.85	-2.947	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-6.223	-0.0087	-2.5 to 2.5	Pass
				40	3.85	-9.270	-0.0130	-2.5 to 2.5	Pass
				50	3.85	-6.595	-0.0092	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

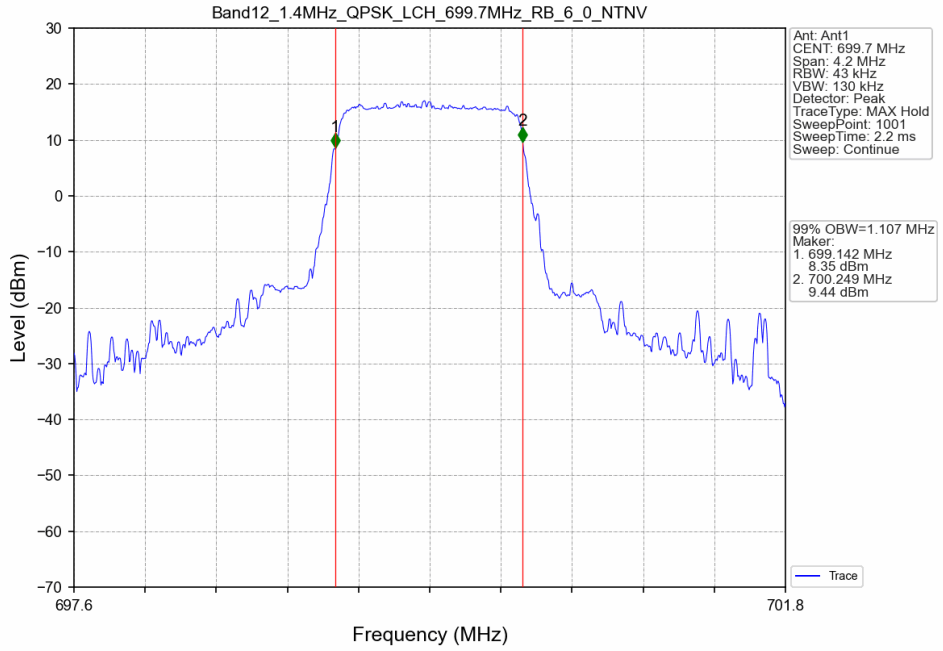
3.1 Band12_OBW

3.1.1 Test Result

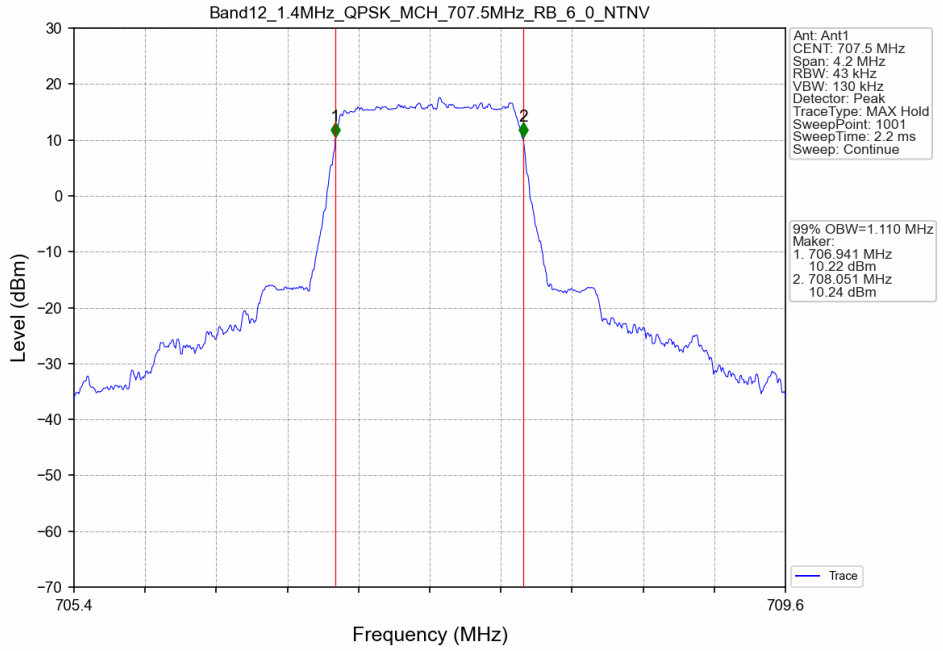
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.107	/	Pass
		707.5	6	0	1.110	/	Pass
		715.3	6	0	1.110	/	Pass
	16QAM	699.7	6	0	1.103	/	Pass
		707.5	6	0	1.109	/	Pass
		715.3	6	0	1.115	/	Pass
3	QPSK	700.5	15	0	2.723	/	Pass
		707.5	15	0	2.738	/	Pass
		714.5	15	0	2.735	/	Pass
	16QAM	700.5	15	0	2.718	/	Pass
		707.5	15	0	2.728	/	Pass
		714.5	15	0	2.722	/	Pass
5	QPSK	701.5	25	0	4.580	/	Pass
		707.5	25	0	4.574	/	Pass
		713.5	25	0	4.578	/	Pass
	16QAM	701.5	25	0	4.567	/	Pass
		707.5	25	0	4.595	/	Pass
		713.5	25	0	4.620	/	Pass
10	QPSK	704	50	0	9.128	/	Pass
		707.5	50	0	9.058	/	Pass
		711	50	0	9.053	/	Pass
	16QAM	704	50	0	9.122	/	Pass
		707.5	50	0	9.089	/	Pass
		711	50	0	9.055	/	Pass

3.1.2 Test Graph

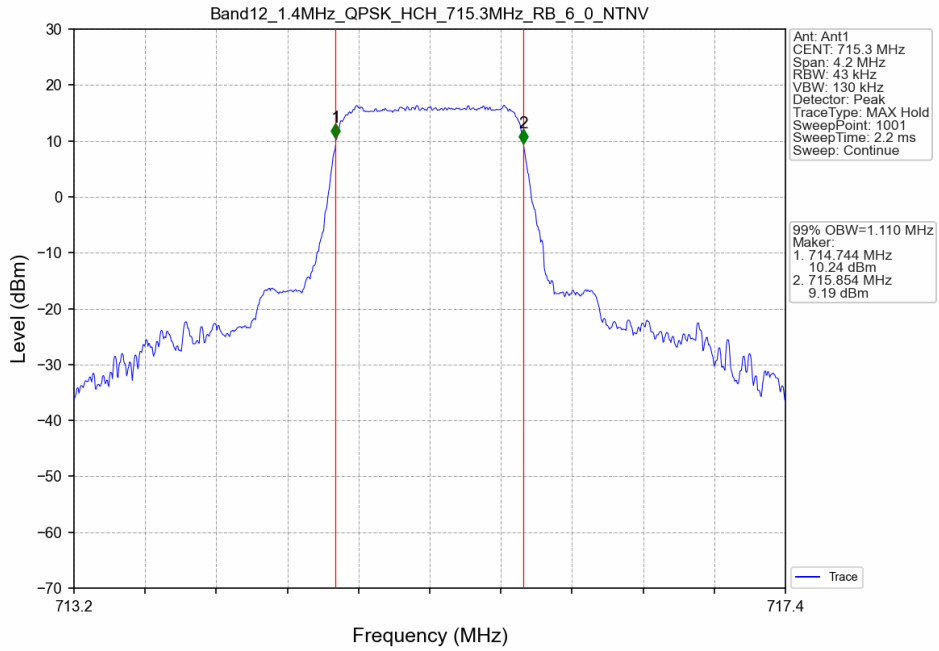
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



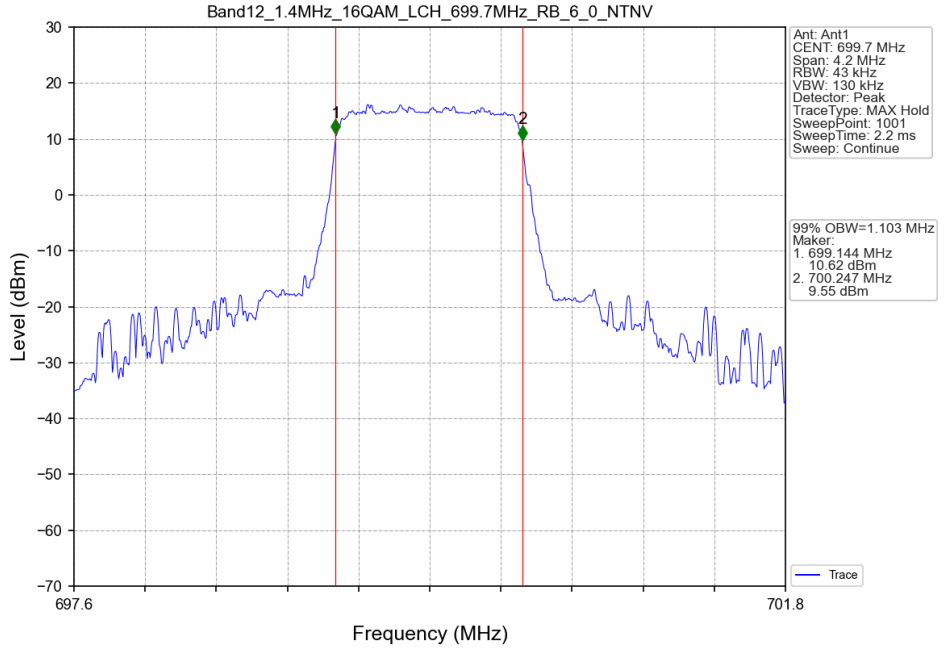
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



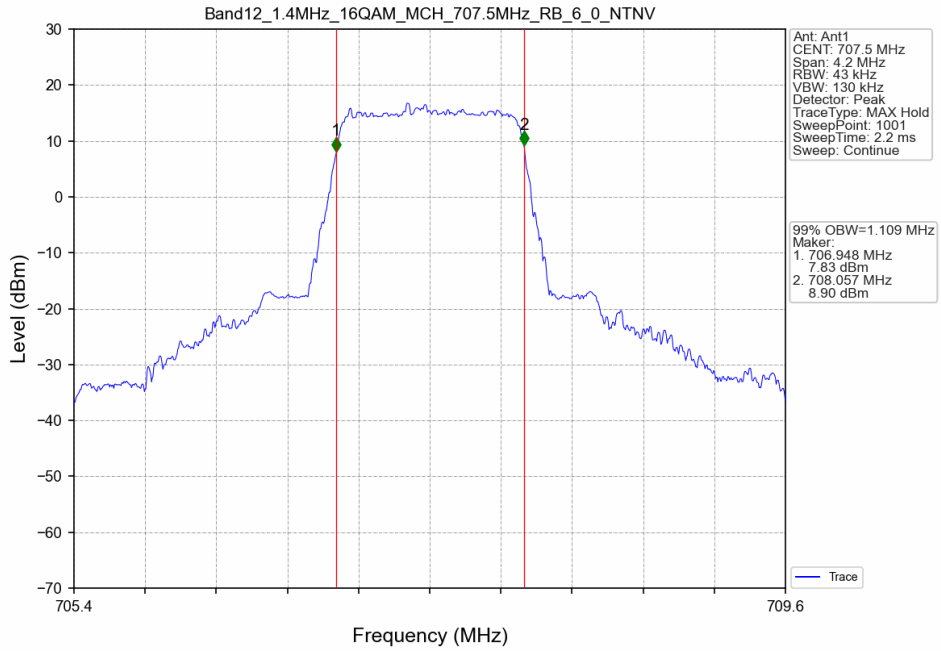
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



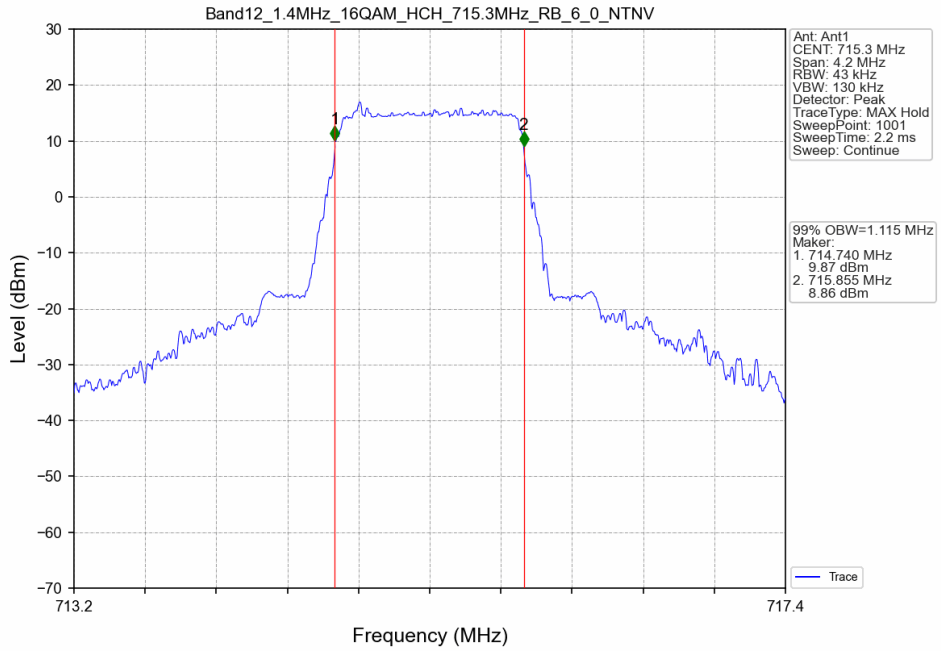
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



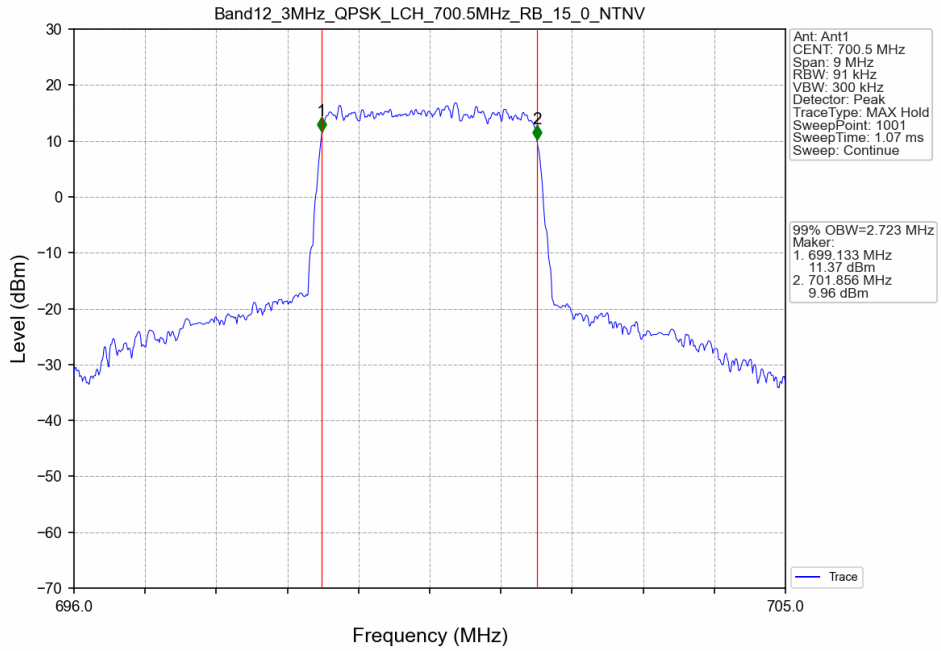
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



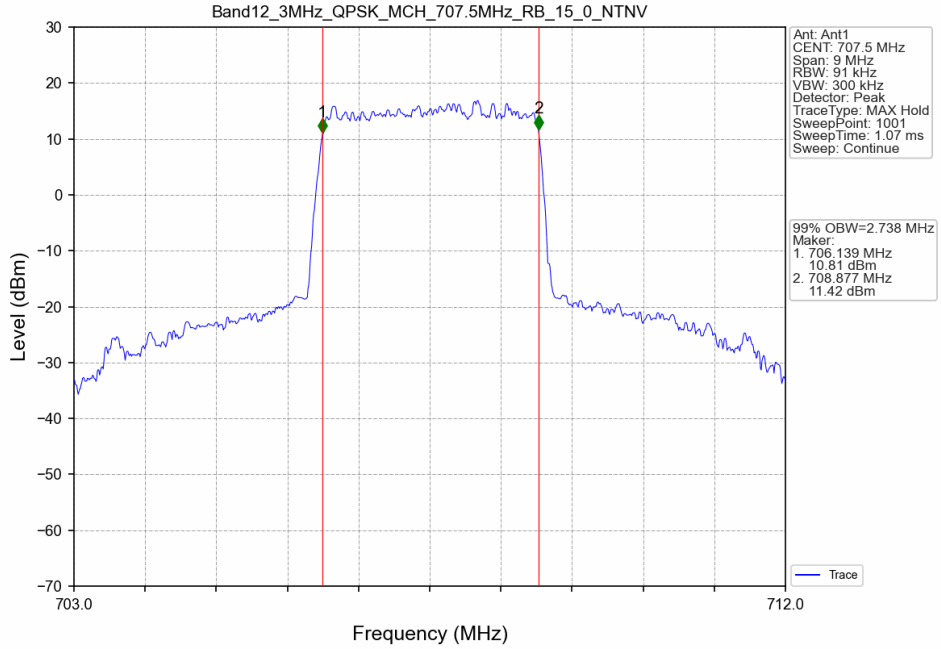
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



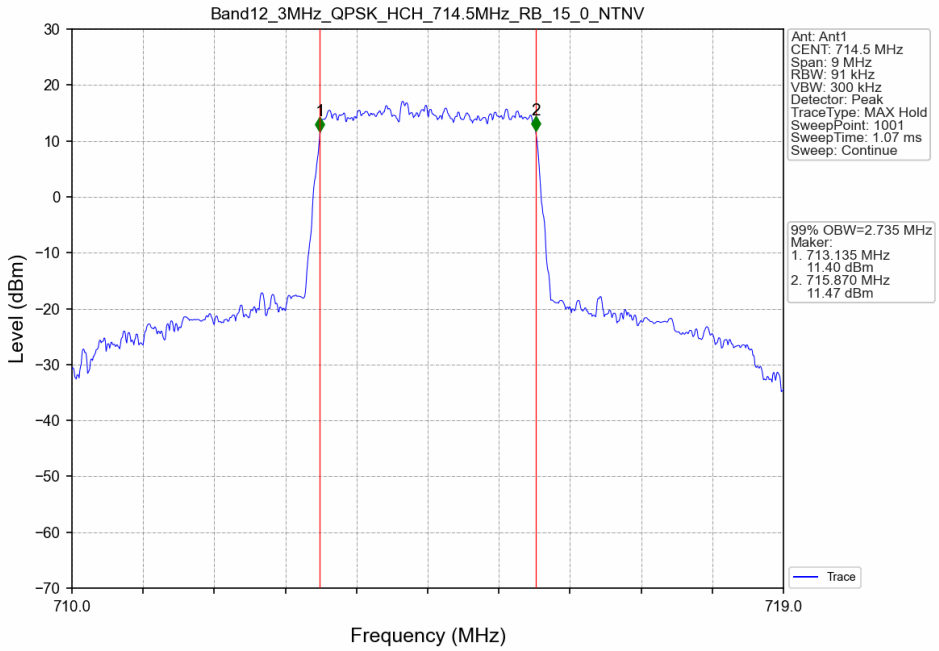
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



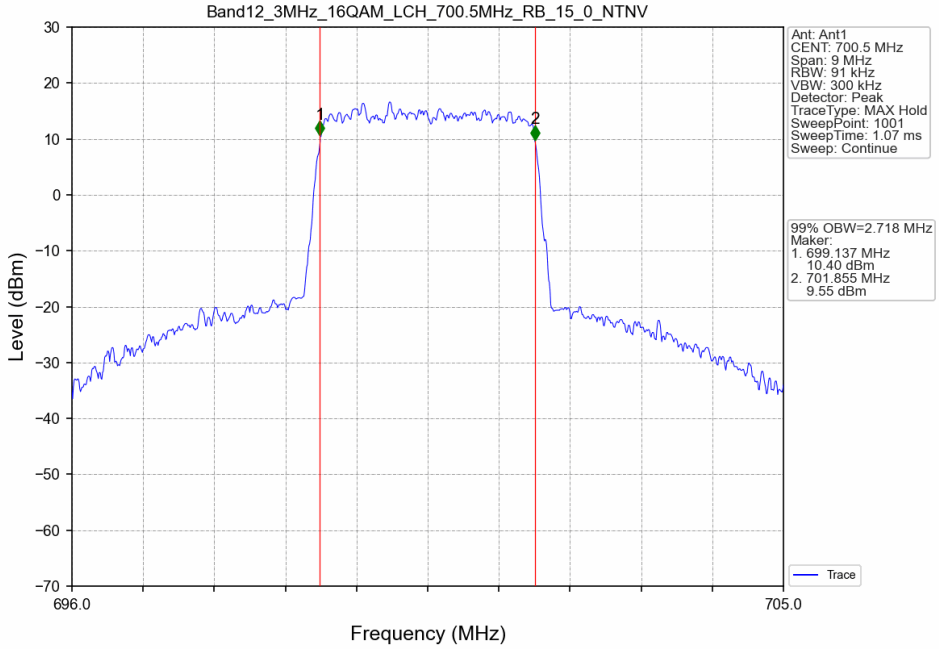
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



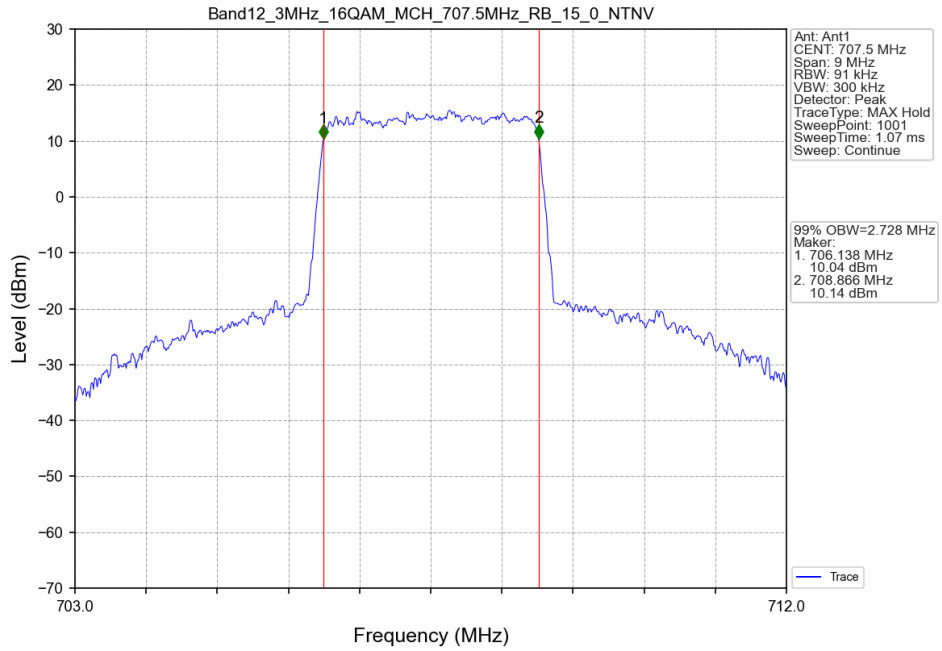
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



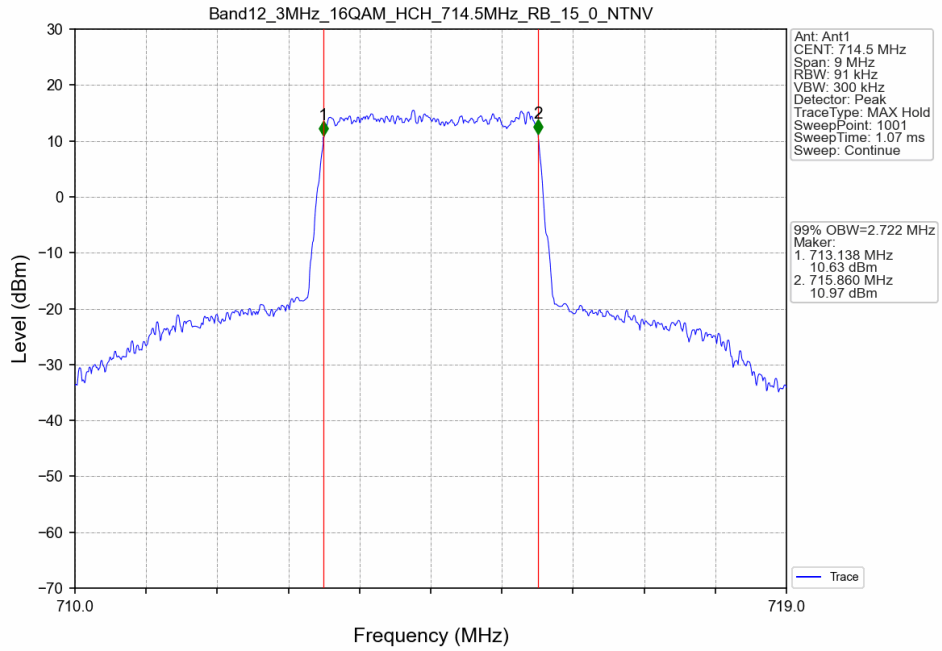
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



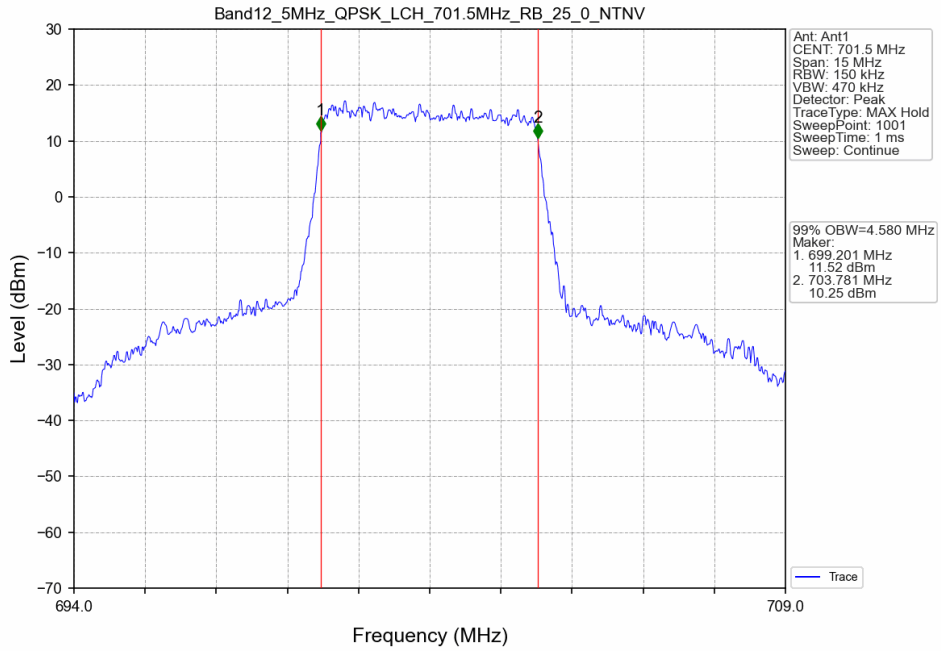
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



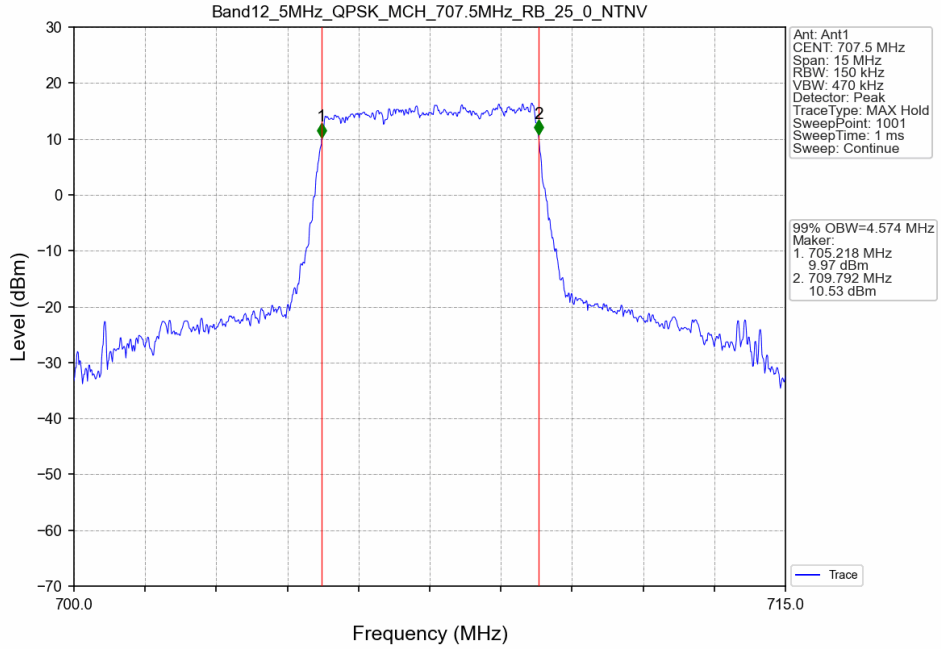
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



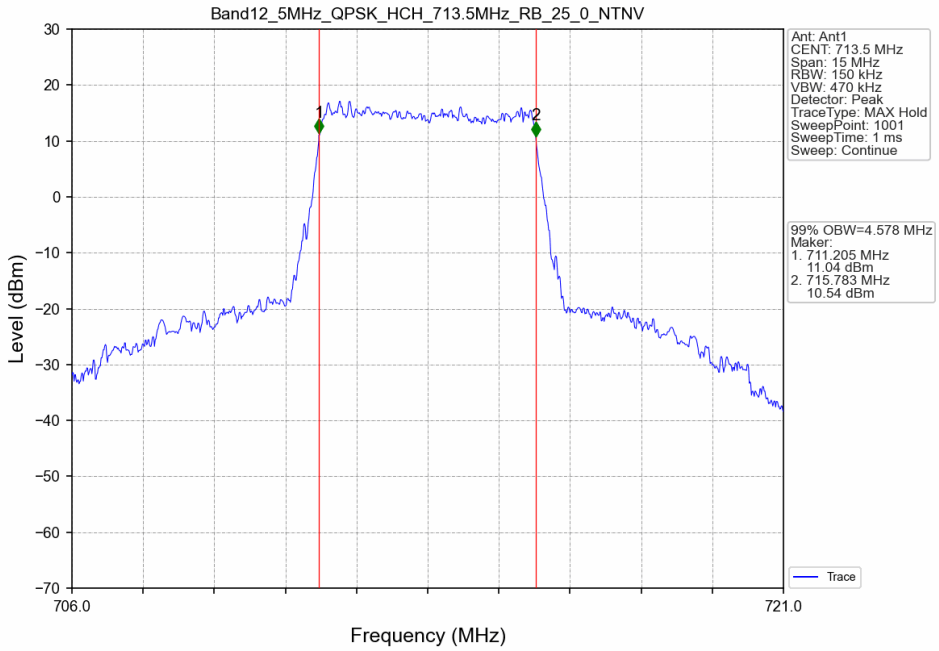
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



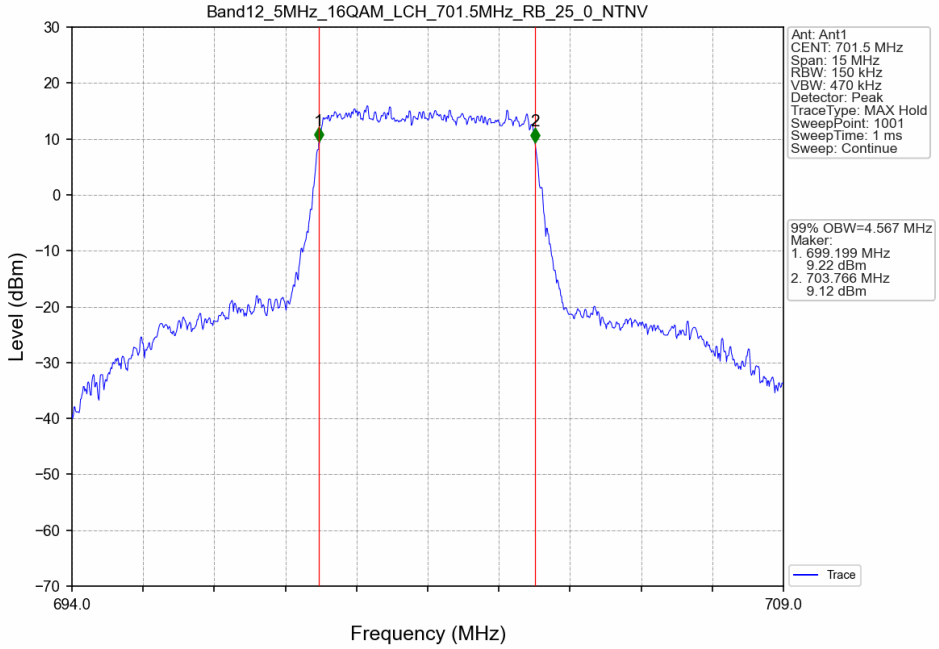
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



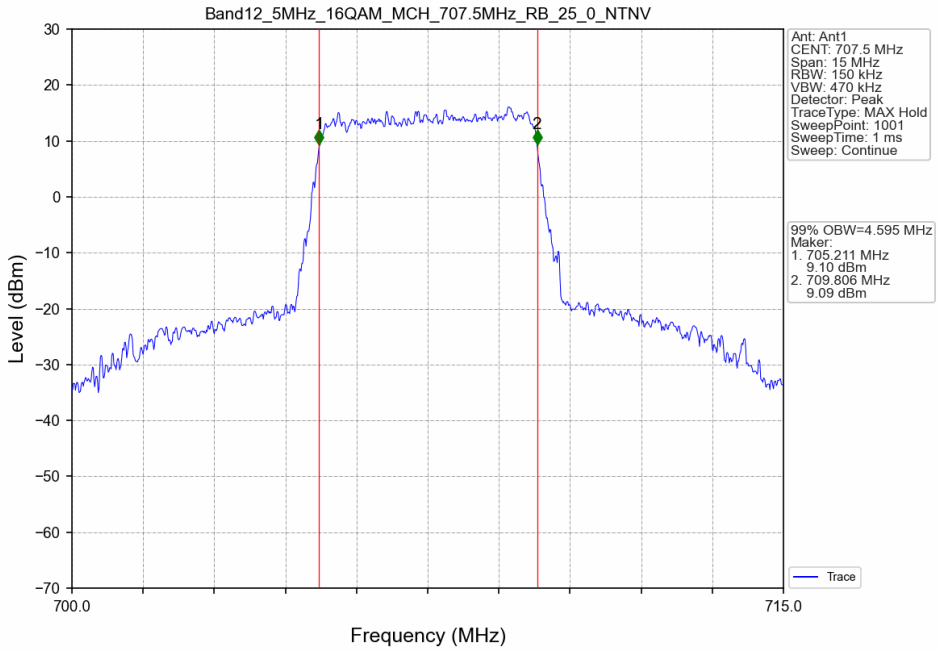
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



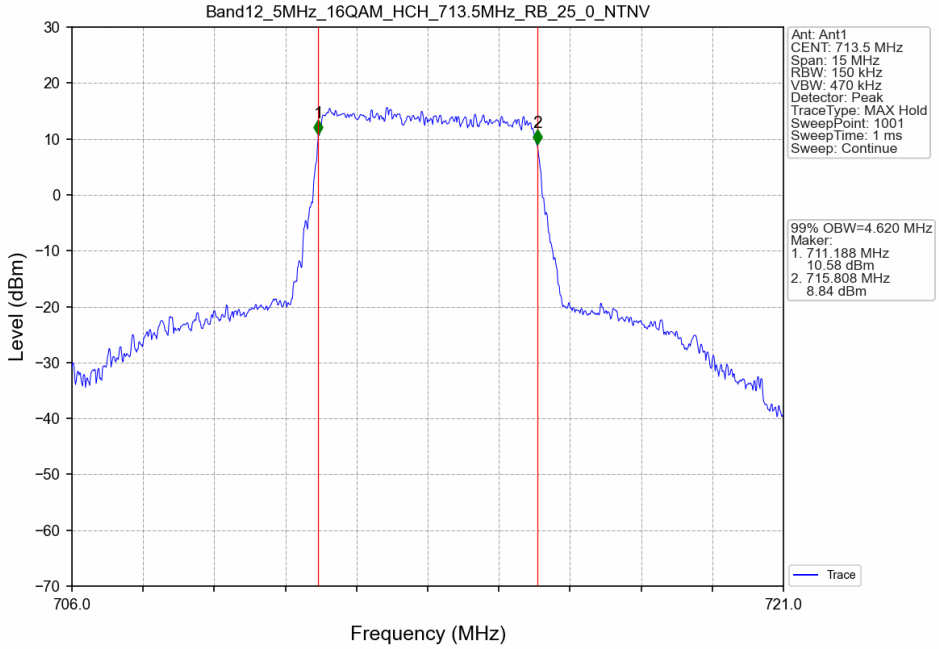
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



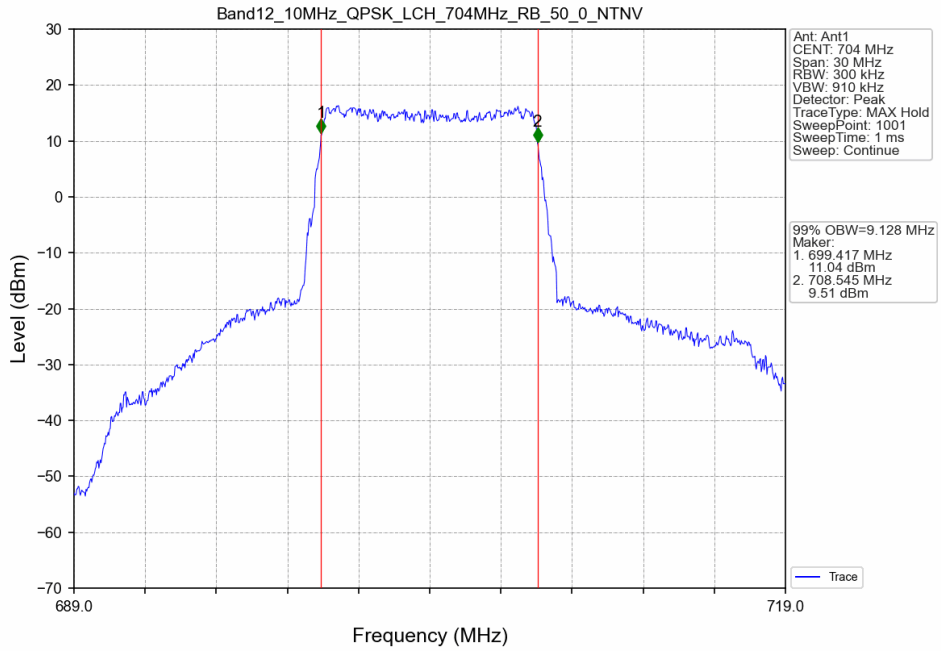
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



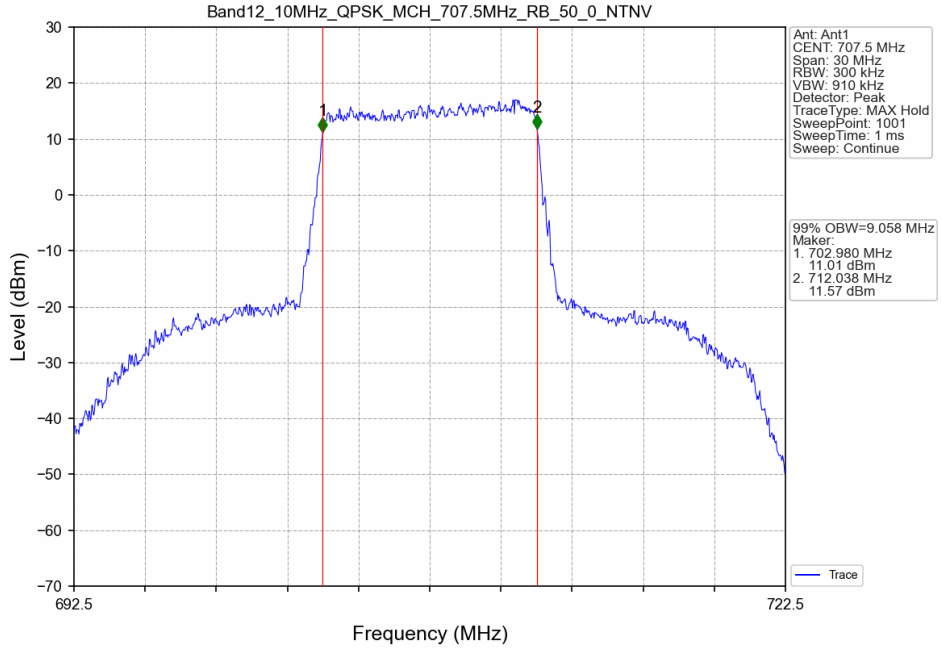
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



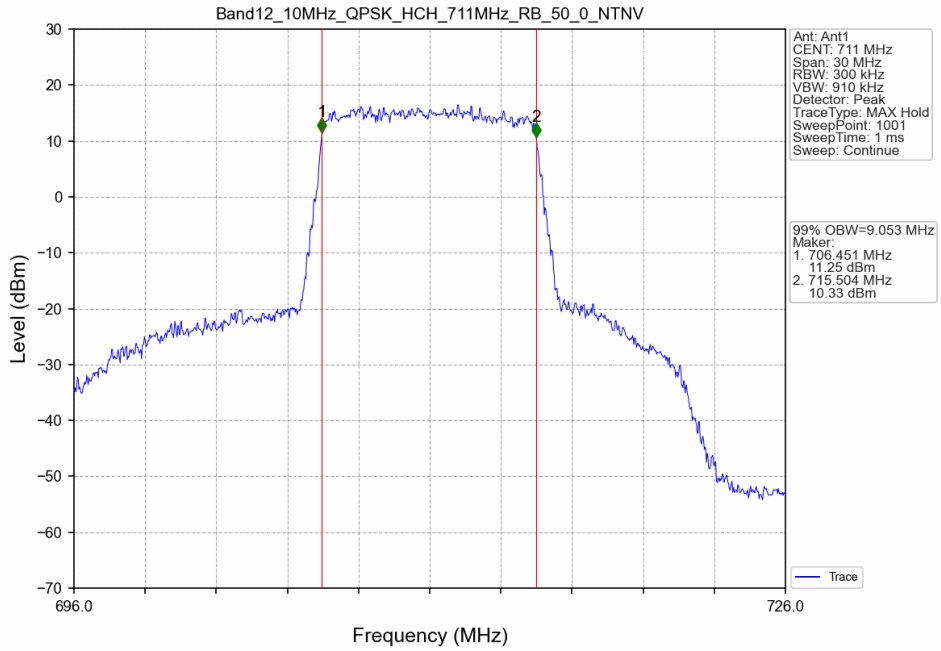
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



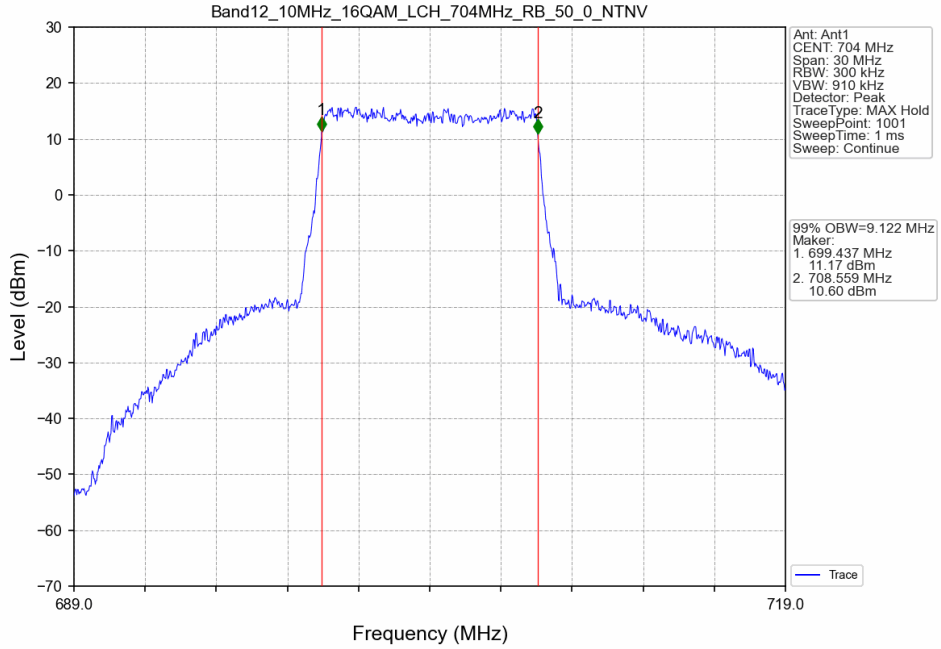
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



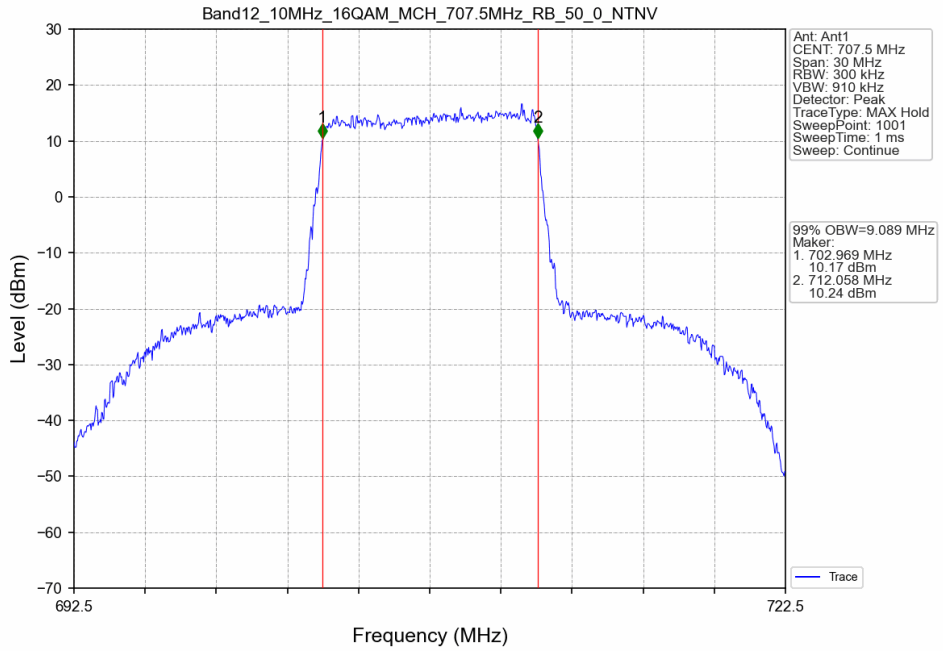
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



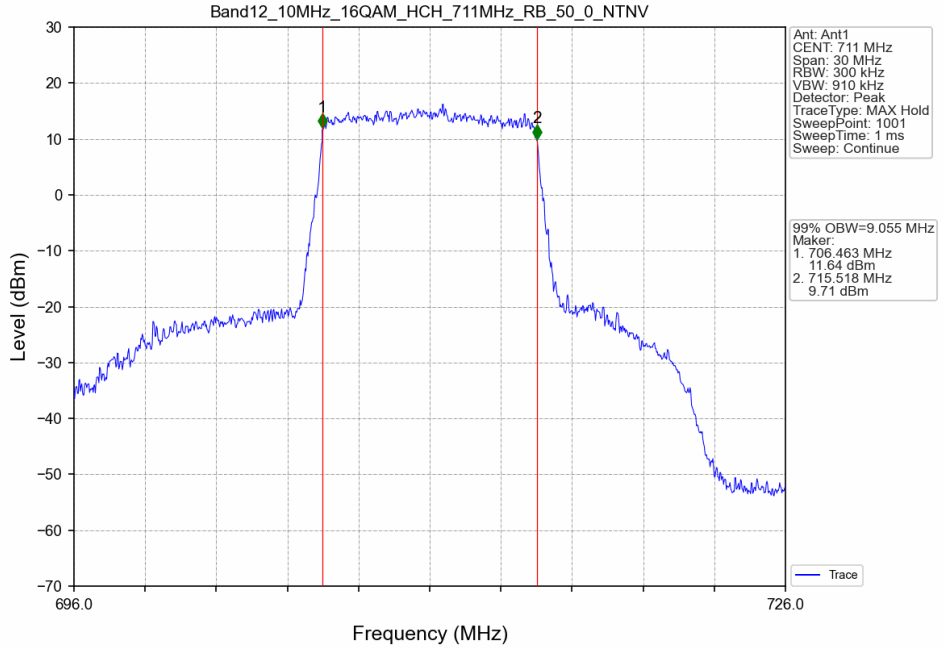
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



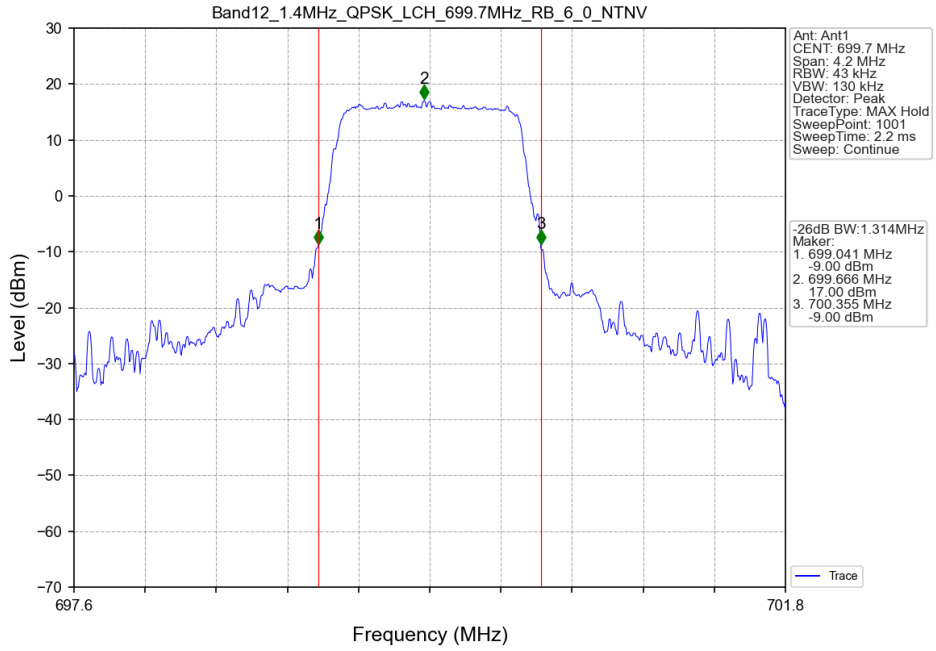
3.2 Band12_XDB

3.2.1 Test Result

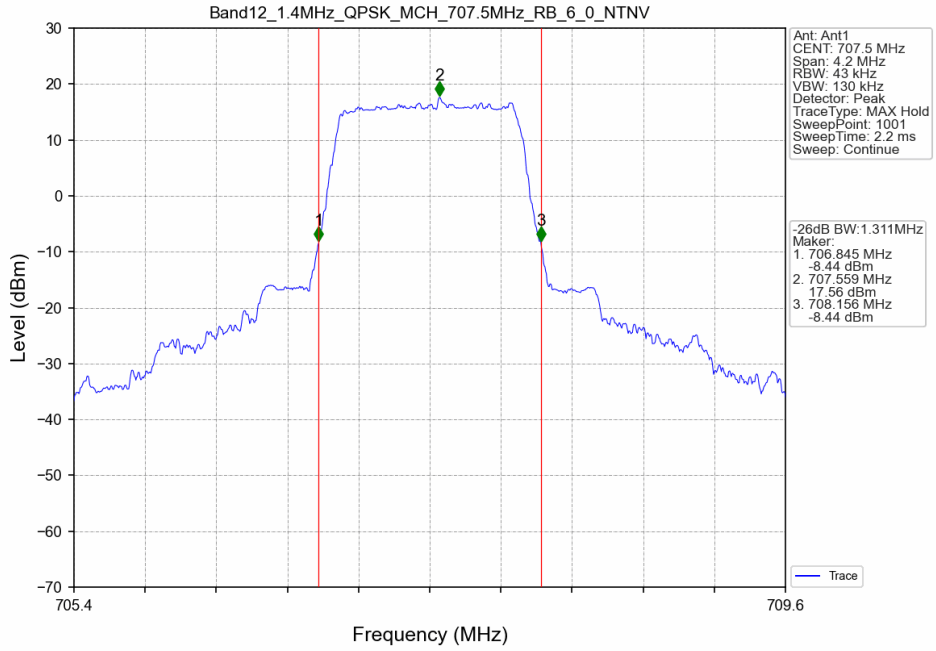
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.314	/	Pass
		707.5	6	0	1.311	/	Pass
		715.3	6	0	1.326	/	Pass
	16QAM	699.7	6	0	1.308	/	Pass
		707.5	6	0	1.323	/	Pass
		715.3	6	0	1.334	/	Pass
3	QPSK	700.5	15	0	2.997	/	Pass
		707.5	15	0	2.979	/	Pass
		714.5	15	0	2.992	/	Pass
	16QAM	700.5	15	0	3.011	/	Pass
		707.5	15	0	3.003	/	Pass
		714.5	15	0	3.014	/	Pass
5	QPSK	701.5	25	0	5.227	/	Pass
		707.5	25	0	5.224	/	Pass
		713.5	25	0	5.253	/	Pass
	16QAM	701.5	25	0	5.278	/	Pass
		707.5	25	0	5.383	/	Pass
		713.5	25	0	5.278	/	Pass
10	QPSK	704	50	0	10.359	/	Pass
		707.5	50	0	10.155	/	Pass
		711	50	0	10.200	/	Pass
	16QAM	704	50	0	10.504	/	Pass
		707.5	50	0	10.142	/	Pass
		711	50	0	10.150	/	Pass

3.2.2 Test Graph

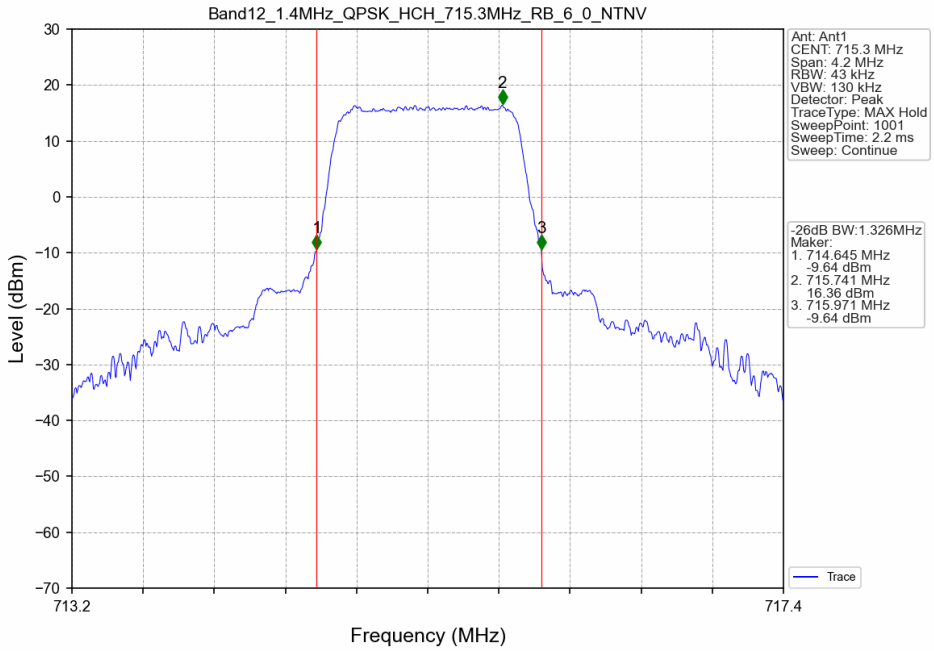
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



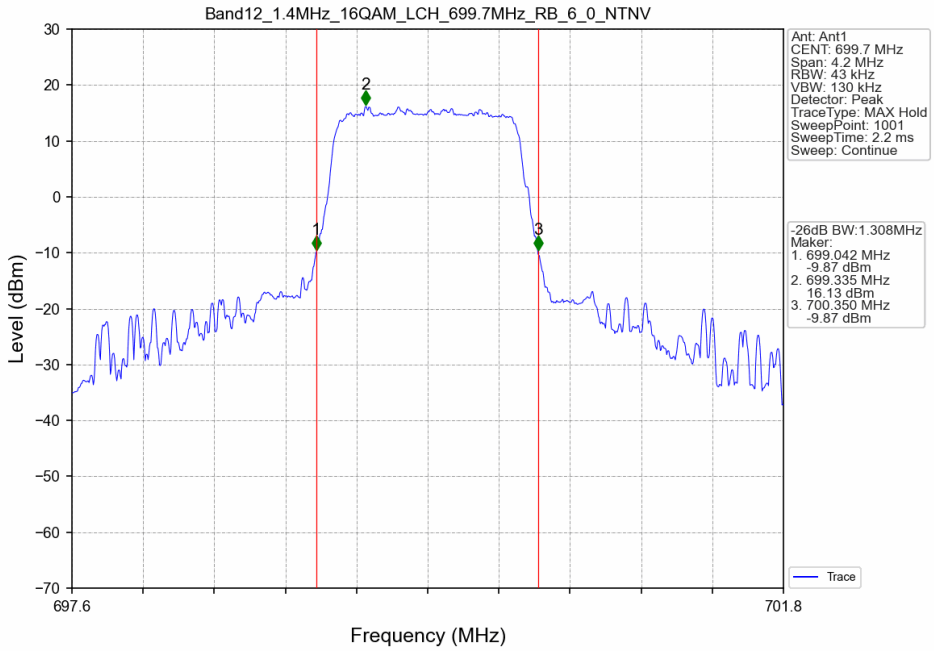
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



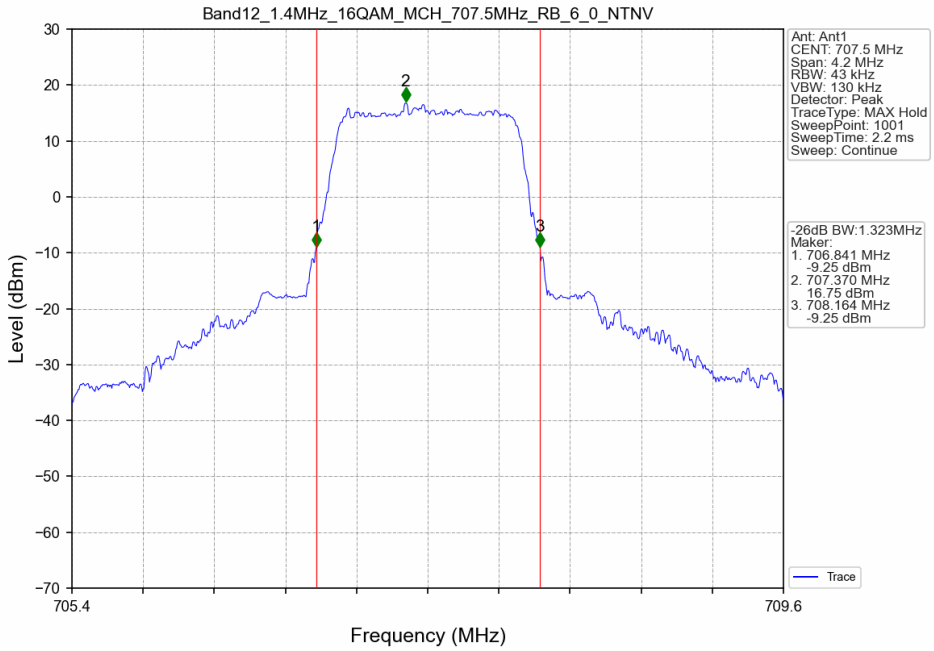
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



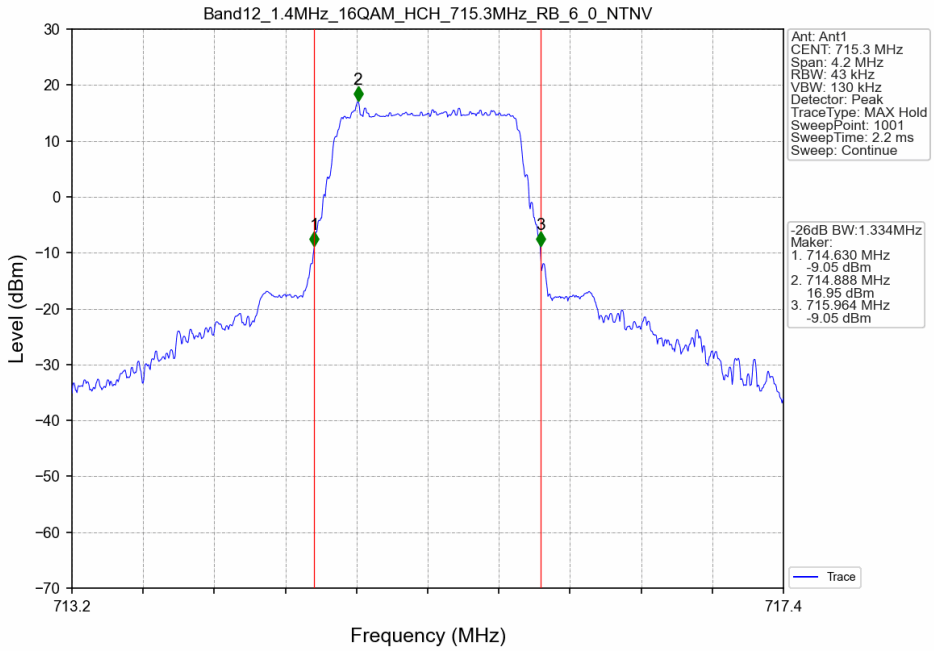
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



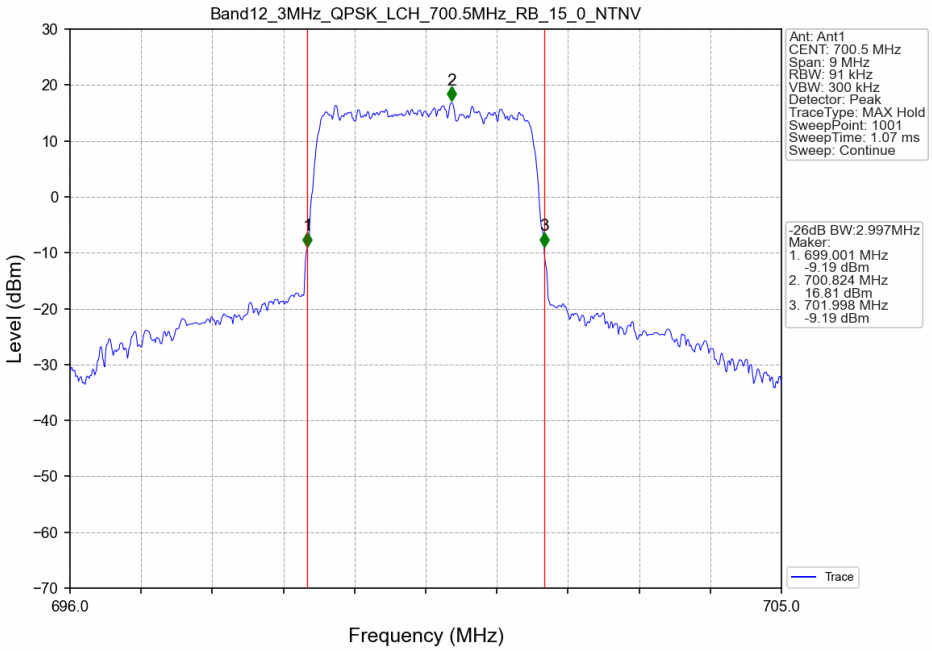
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



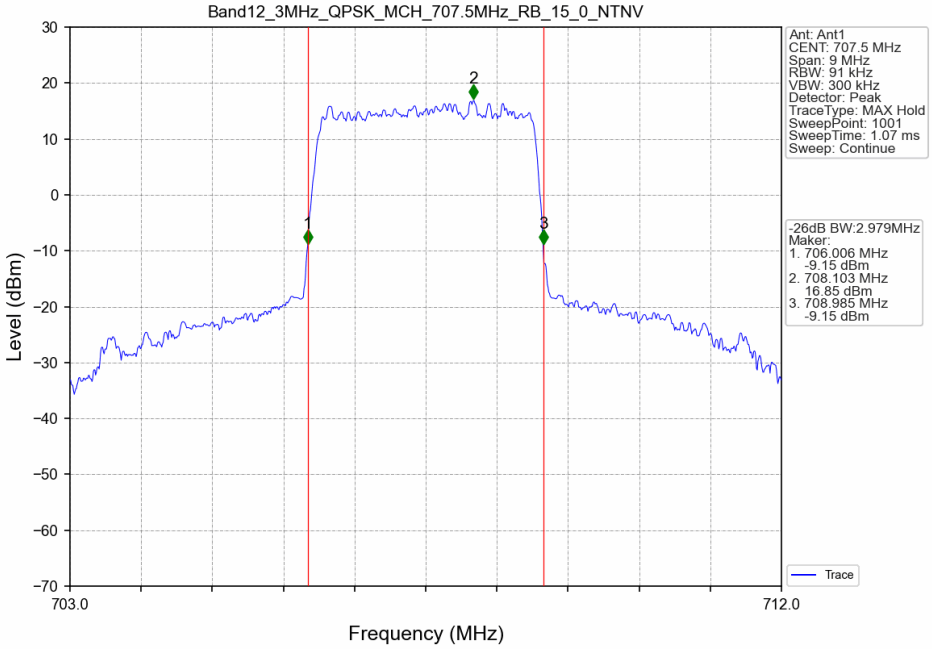
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



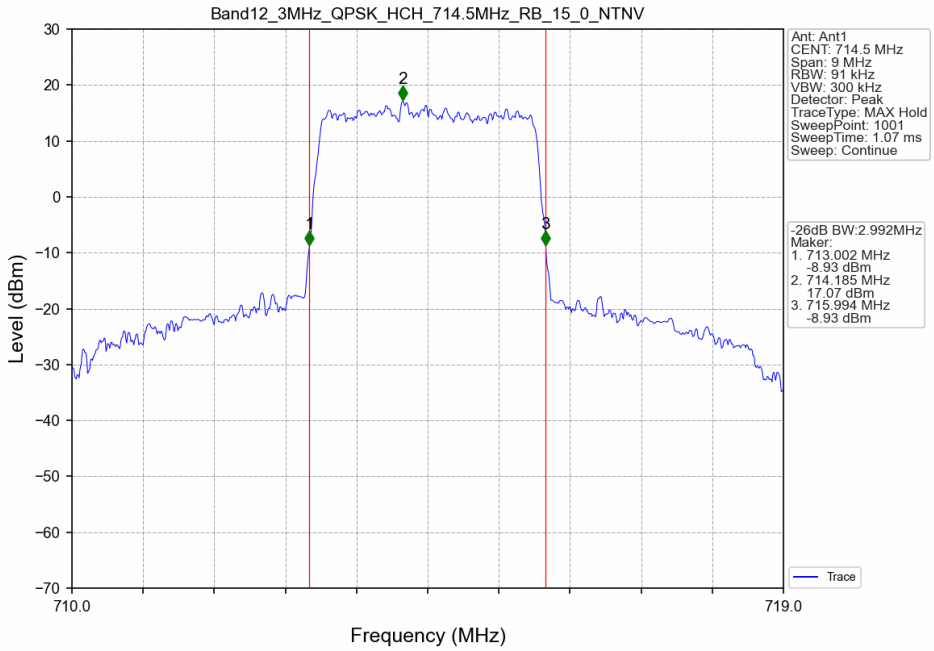
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



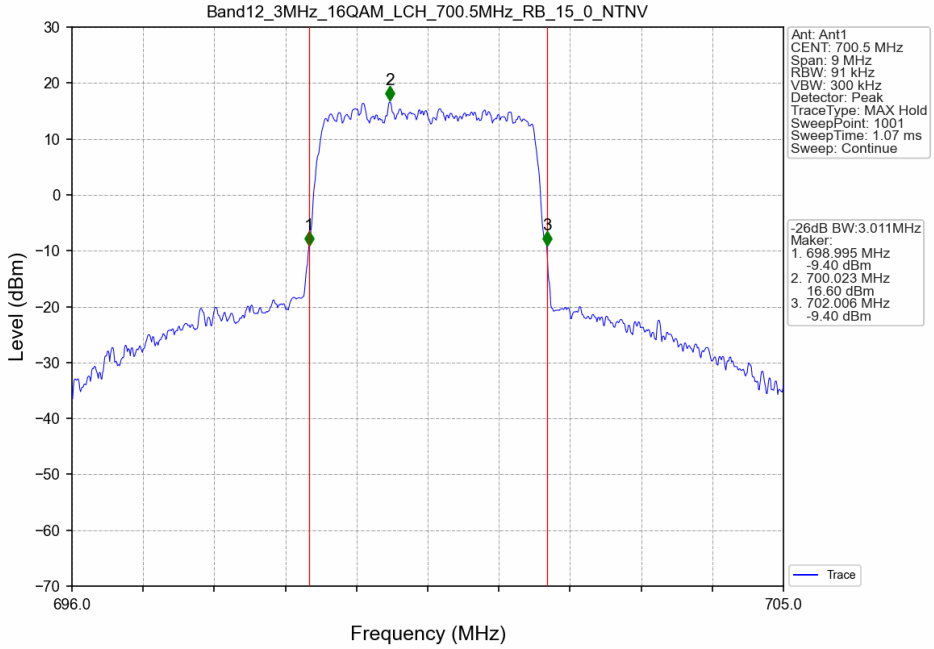
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



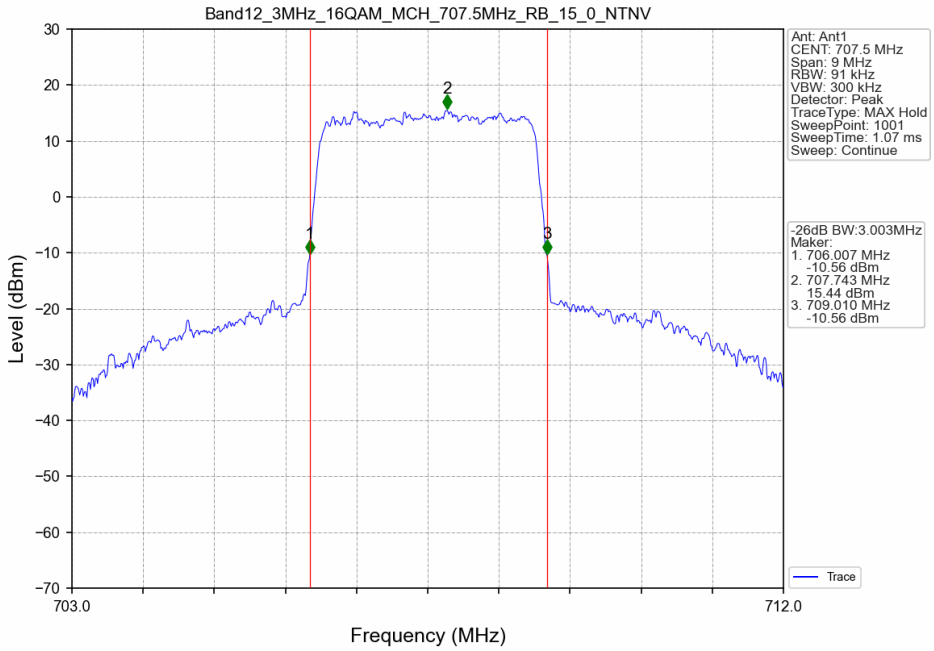
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



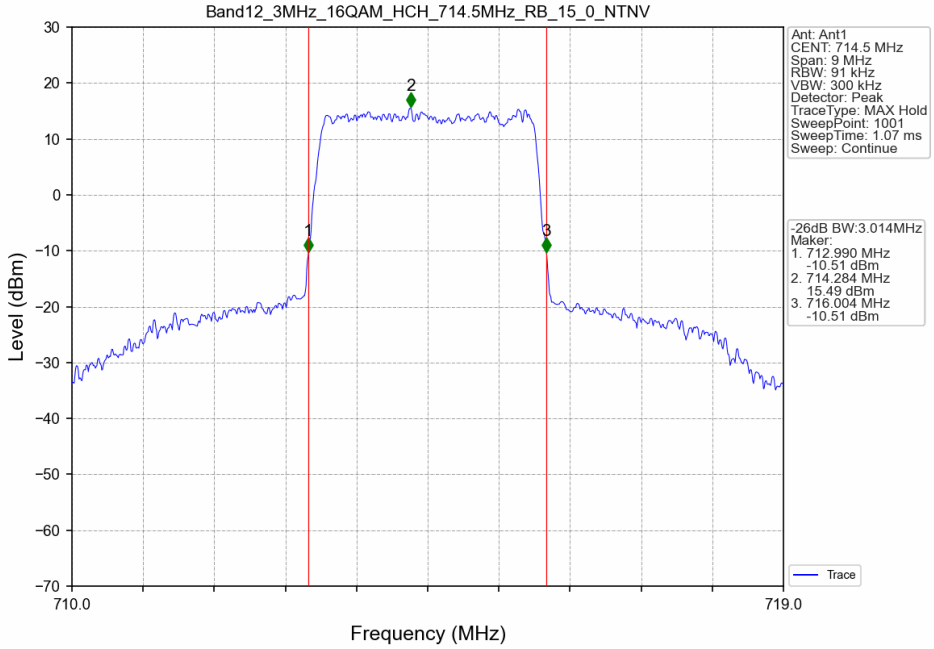
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



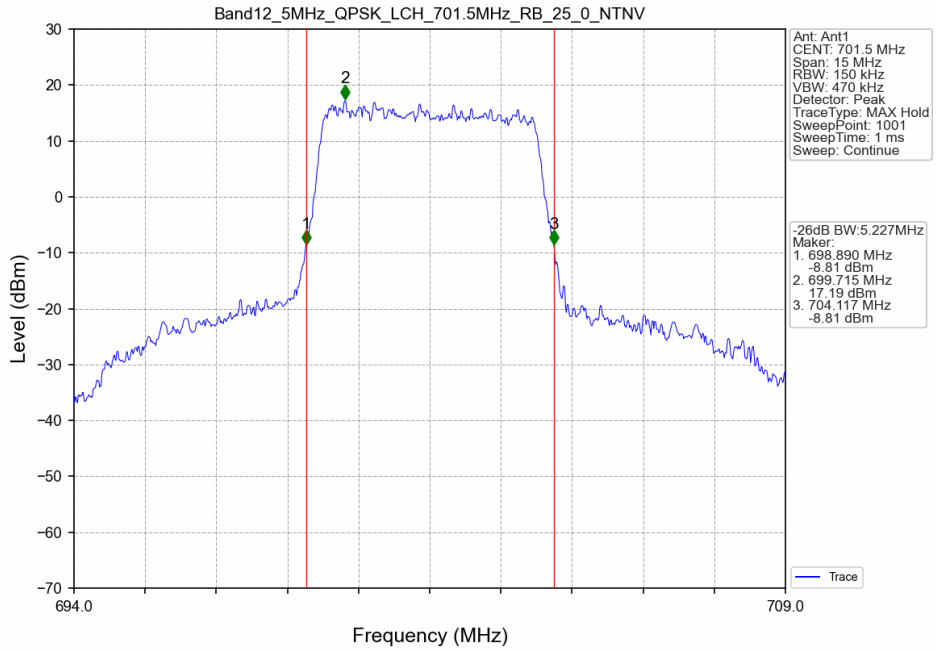
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



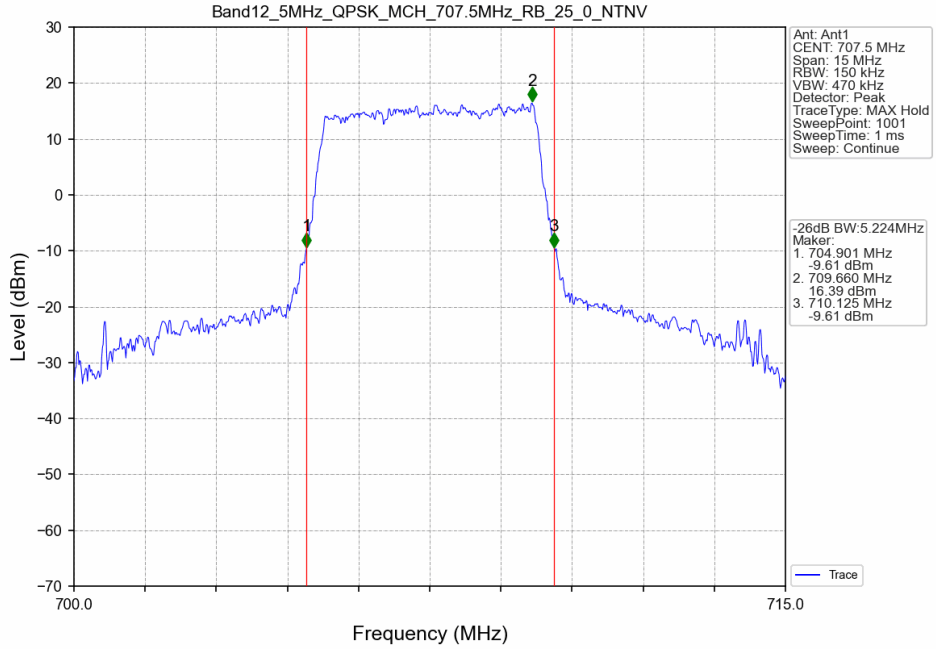
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



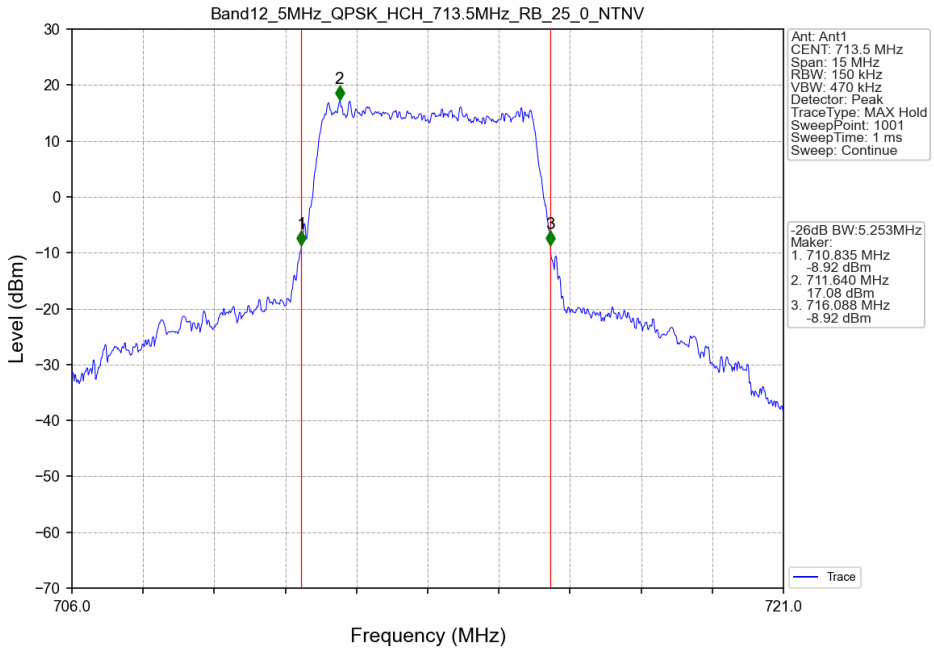
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



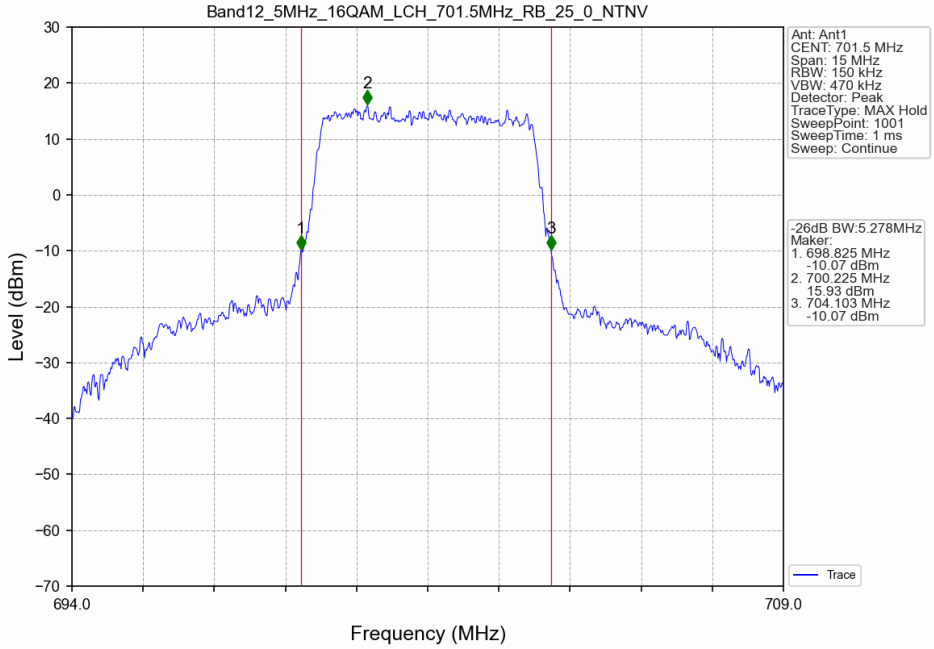
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



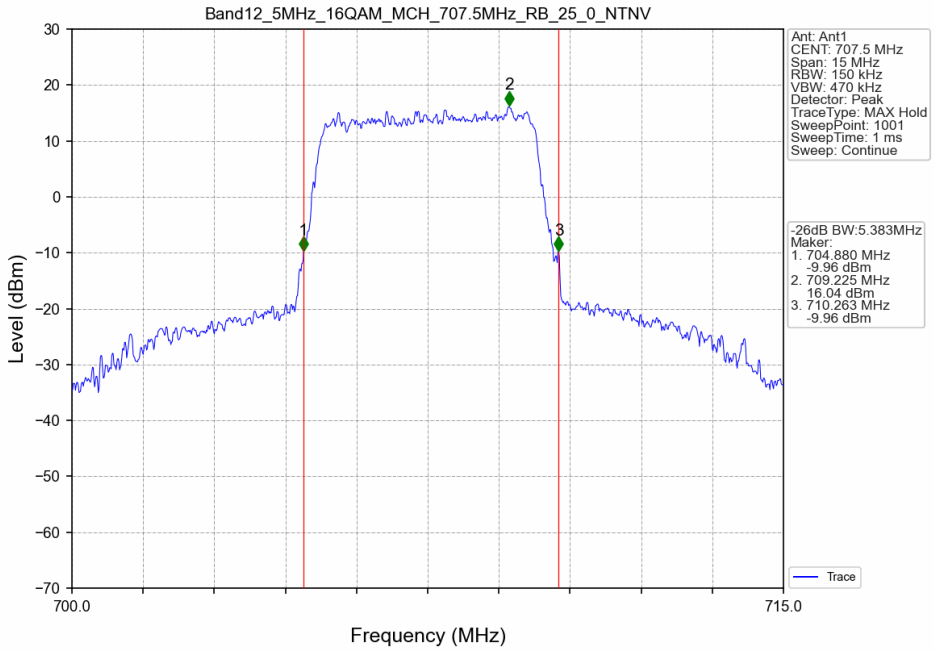
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



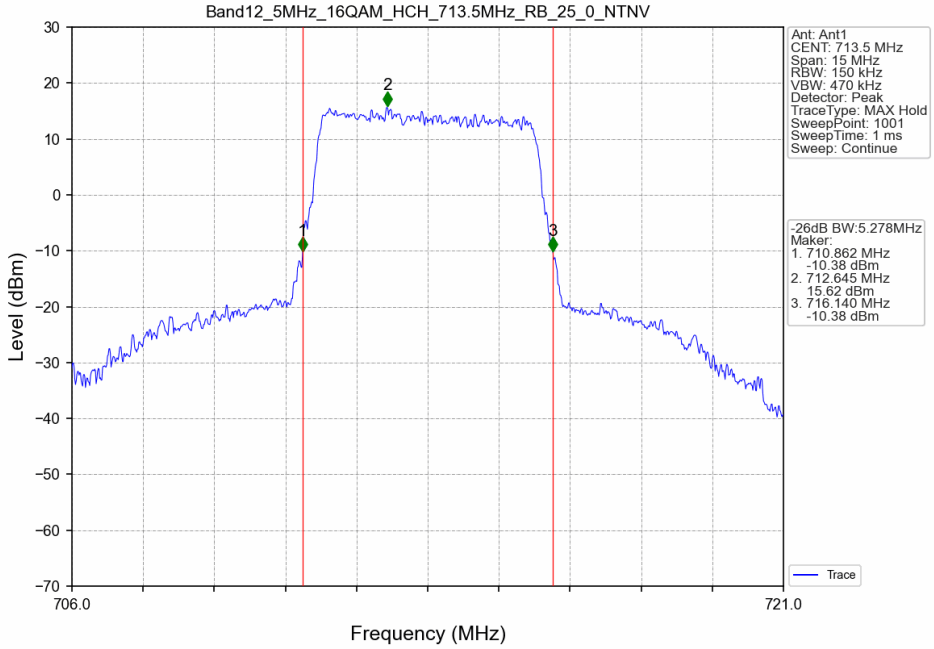
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



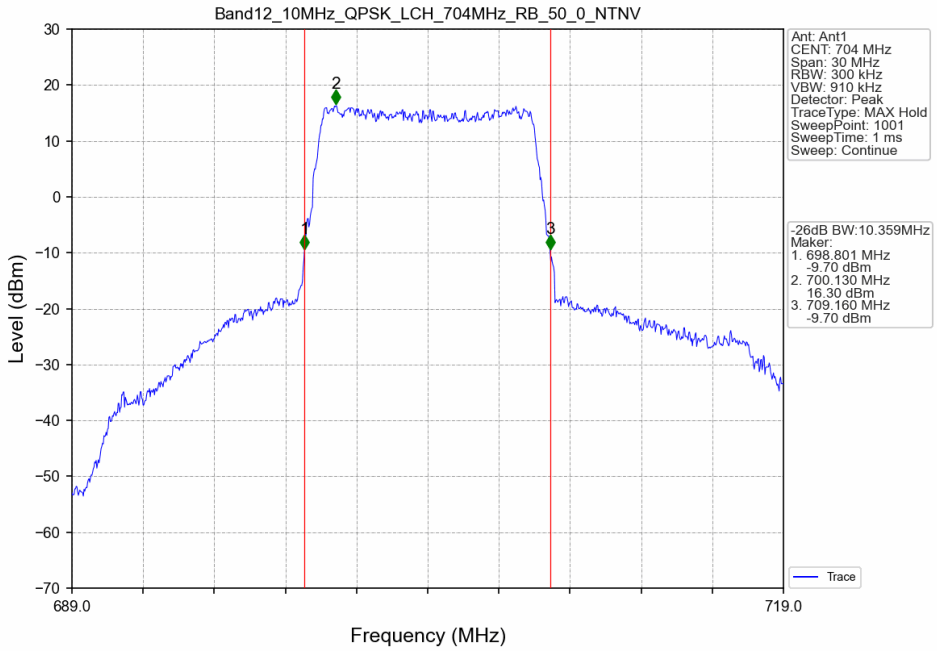
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



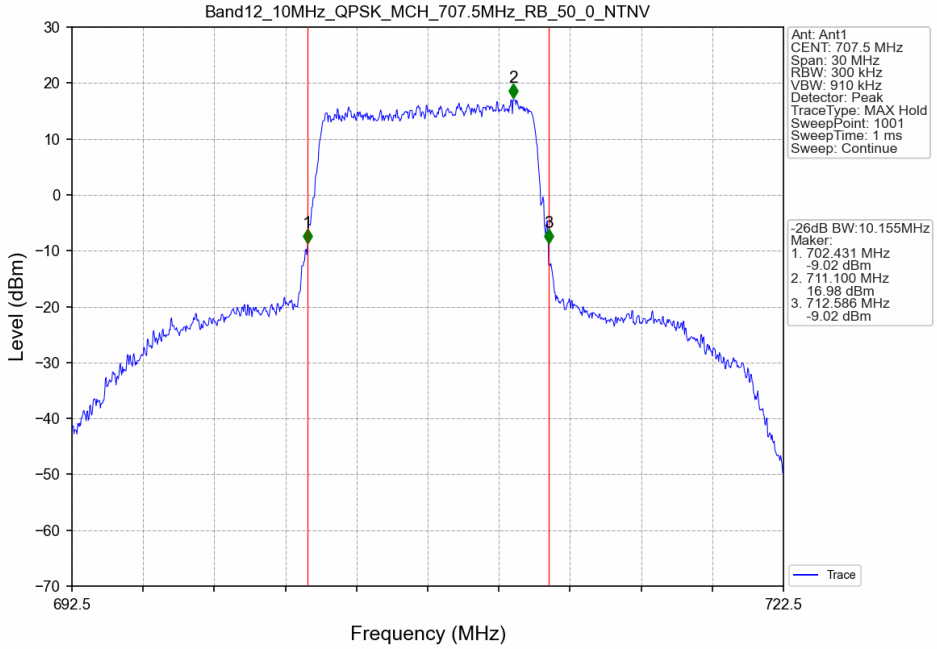
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



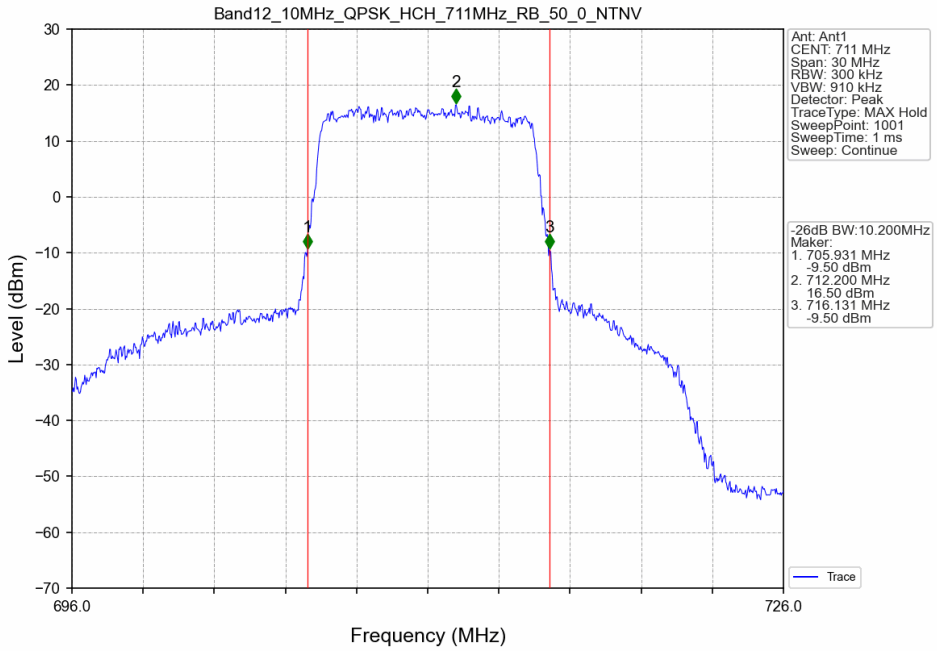
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



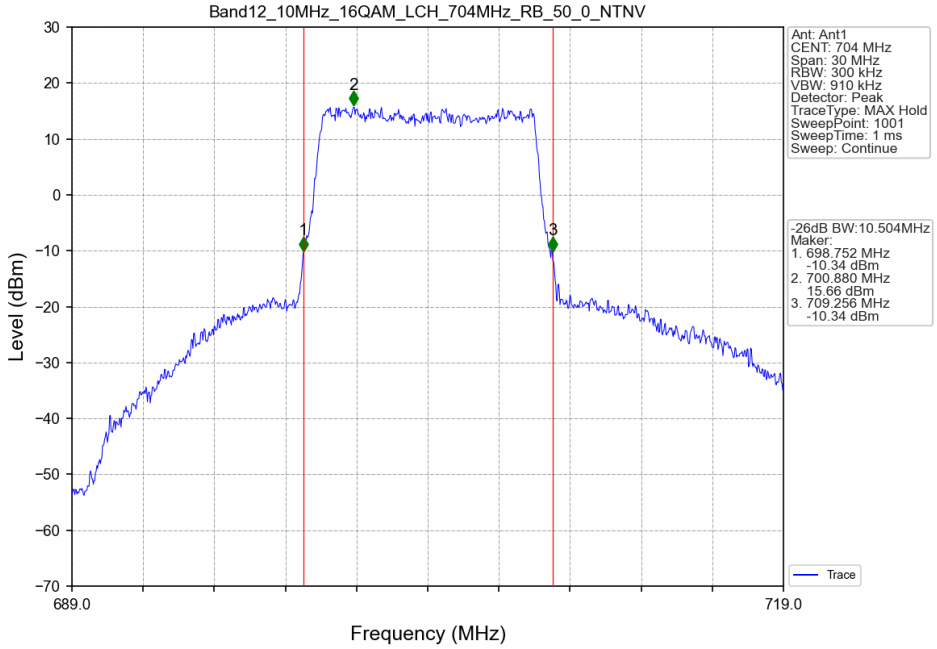
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



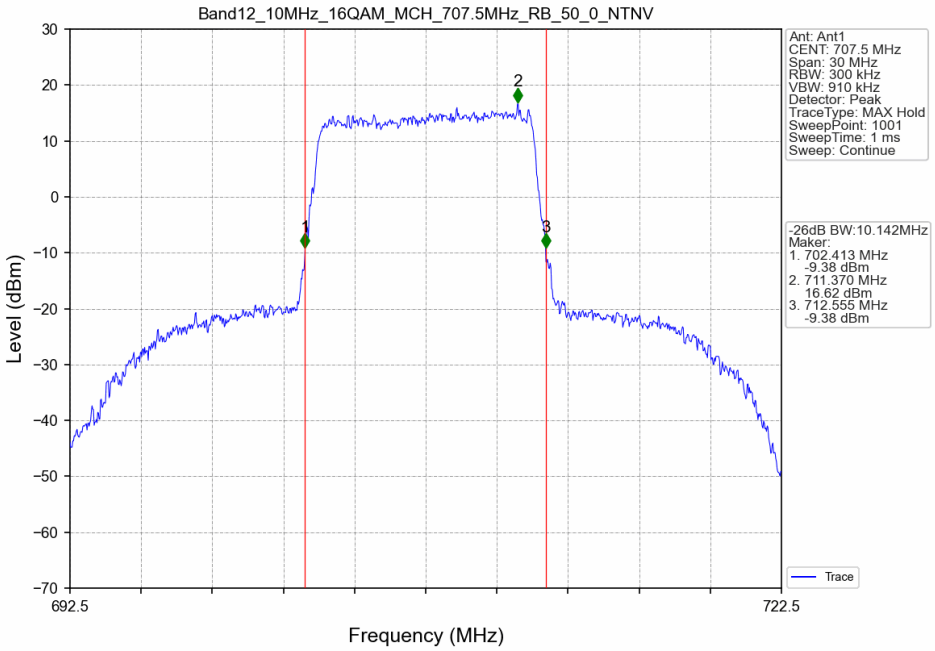
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



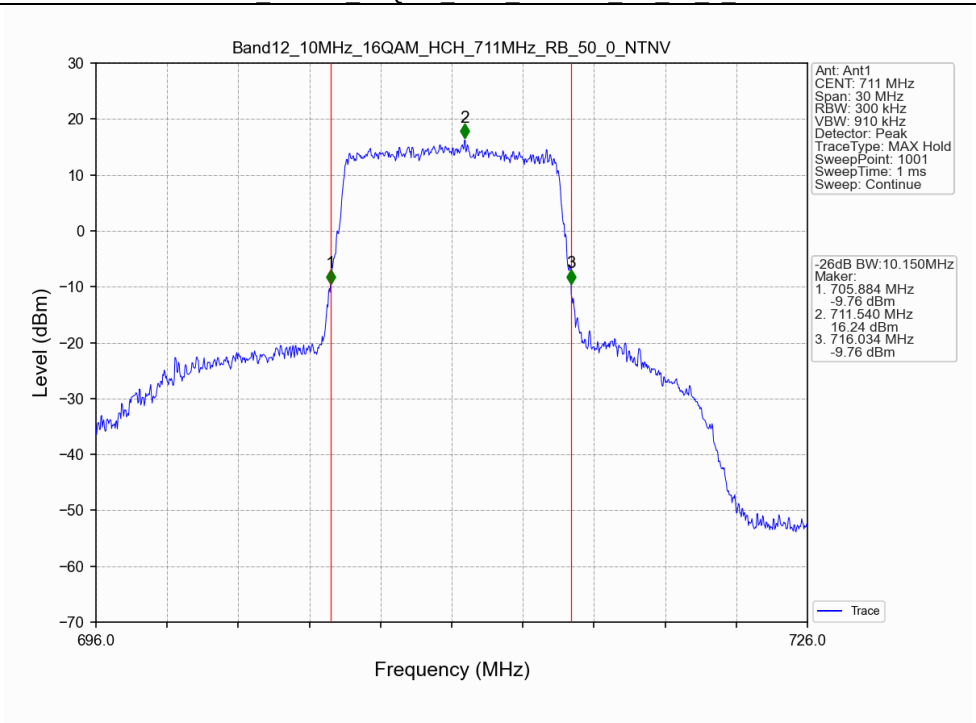
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



4. Peak-Average Ratio

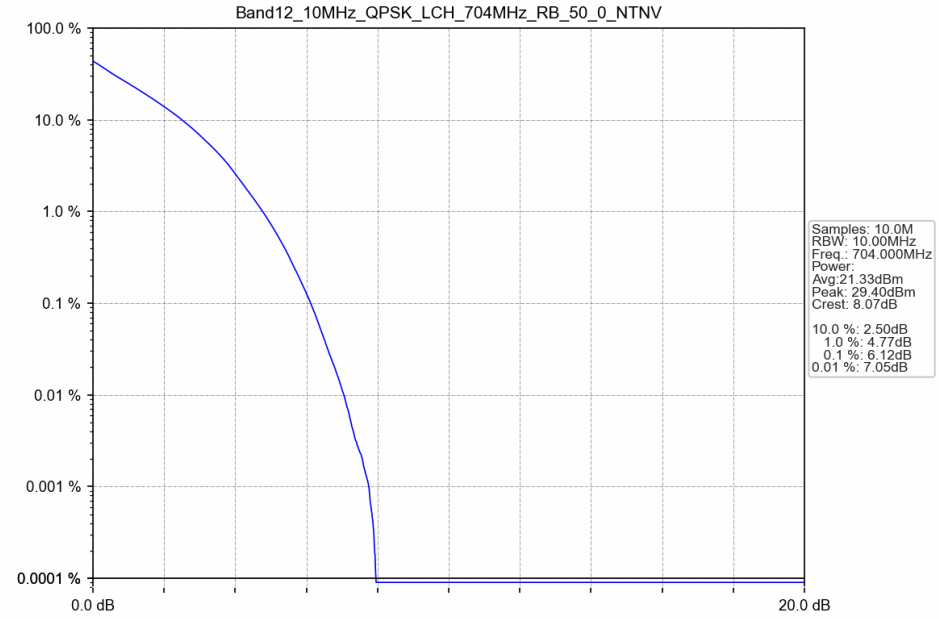
4.1 B12_10MHz

4.1.1 Test Result

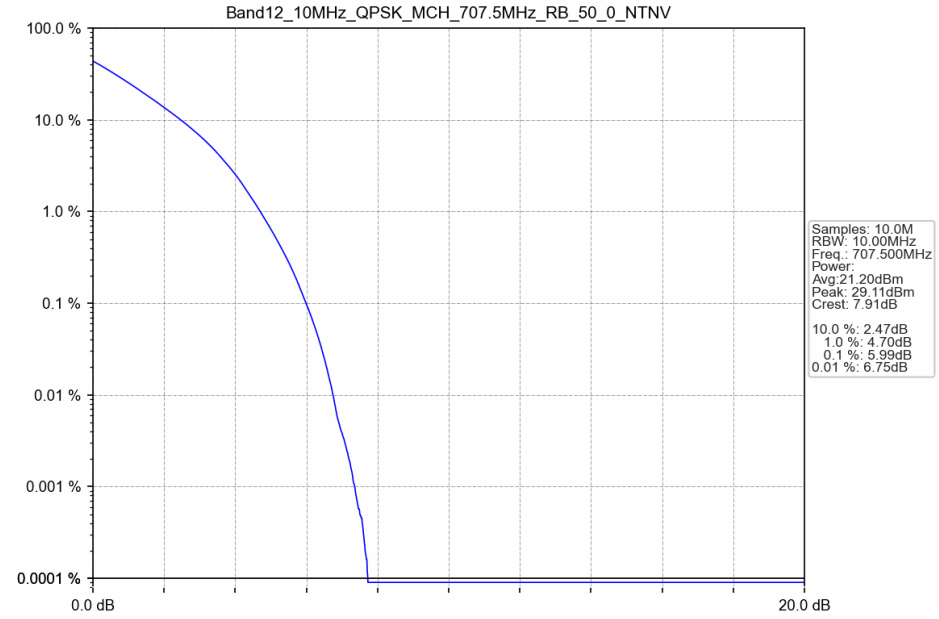
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	6.12	<=13	Pass
	707.5	50	0	5.99	<=13	Pass
	711	50	0	5.80	<=13	Pass
16QAM	704	50	0	6.78	<=13	Pass
	707.5	50	0	6.77	<=13	Pass
	711	50	0	6.67	<=13	Pass

4.1.2 Test Graph

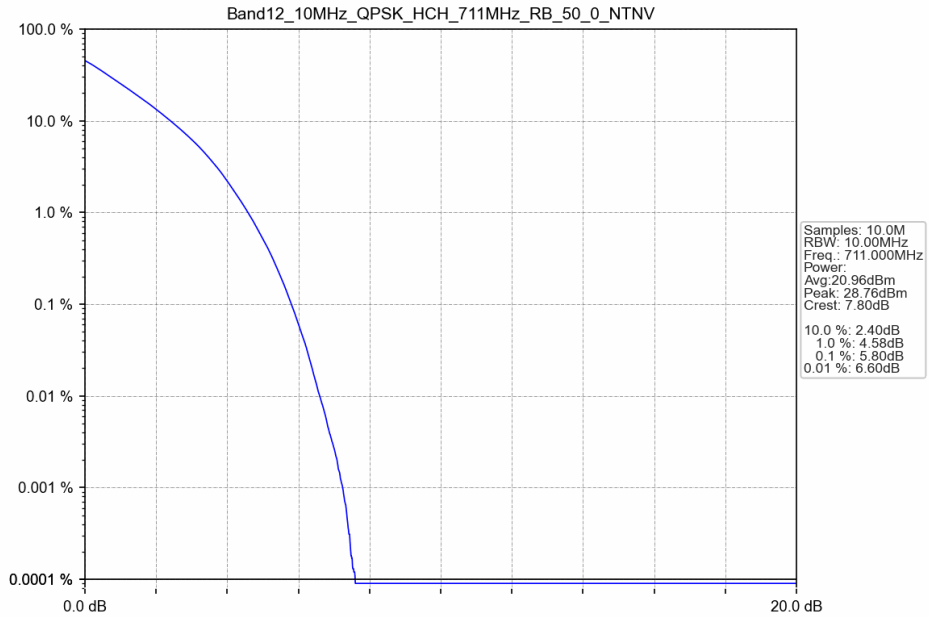
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



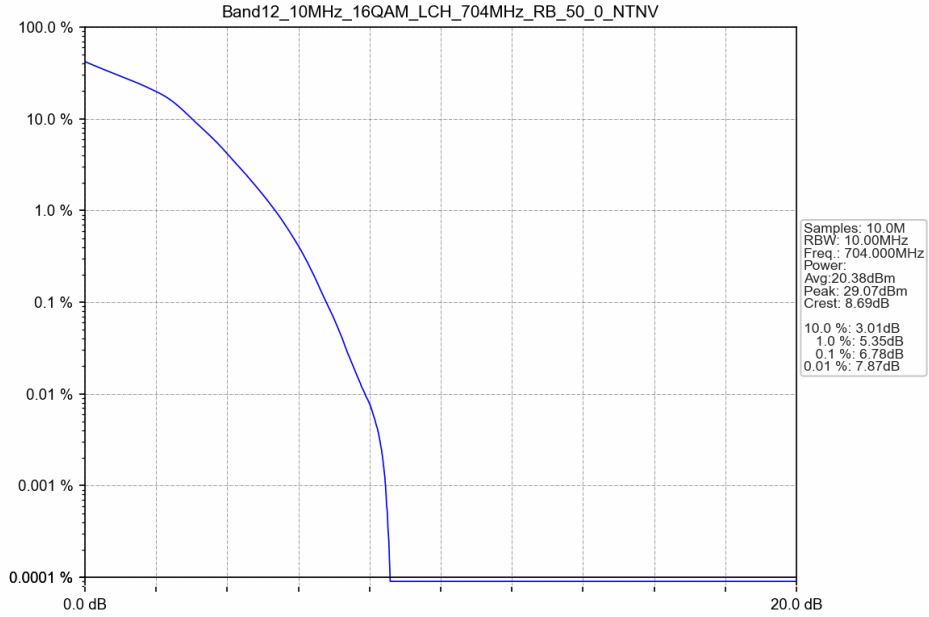
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



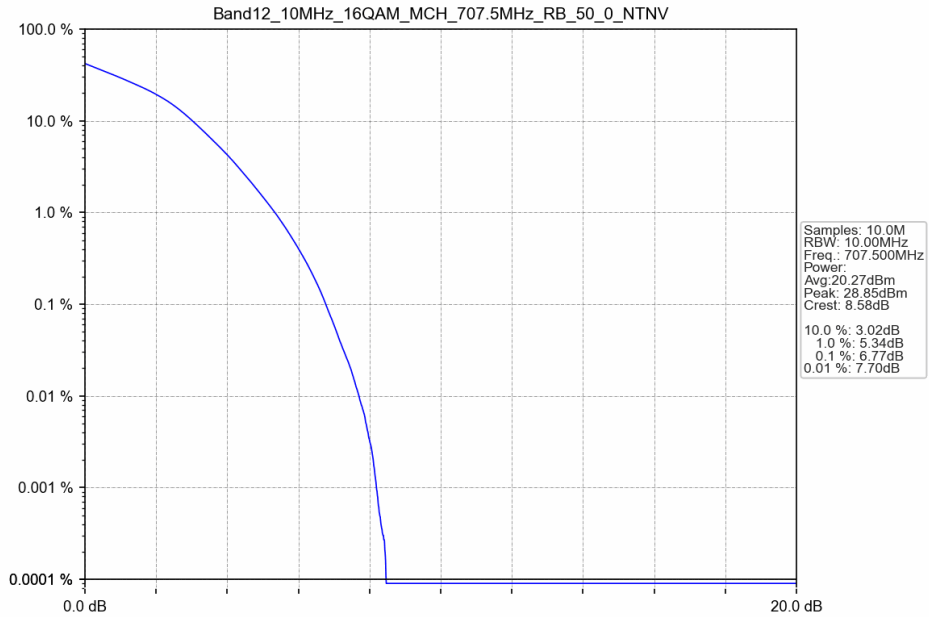
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



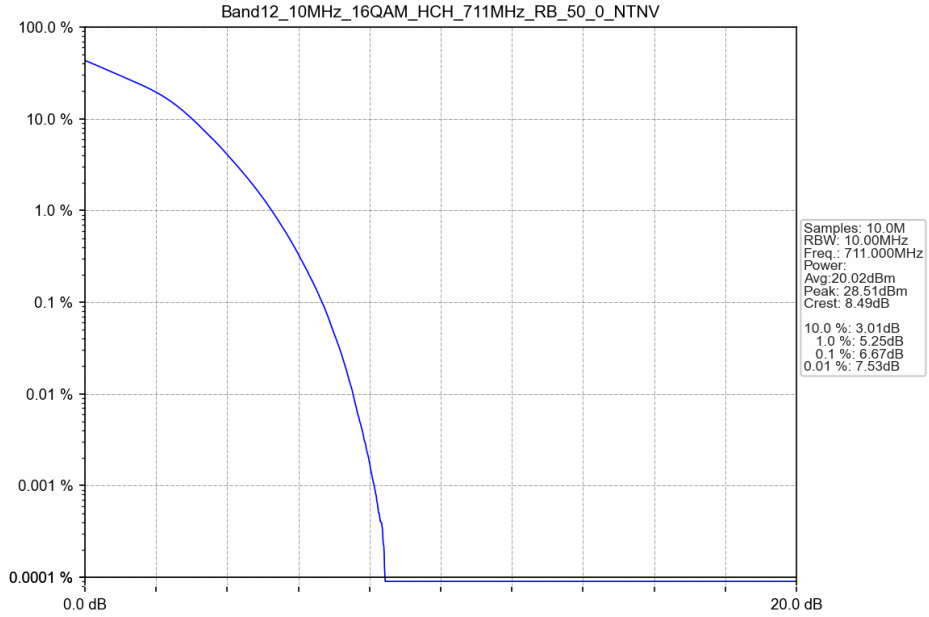
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Spurious Emission

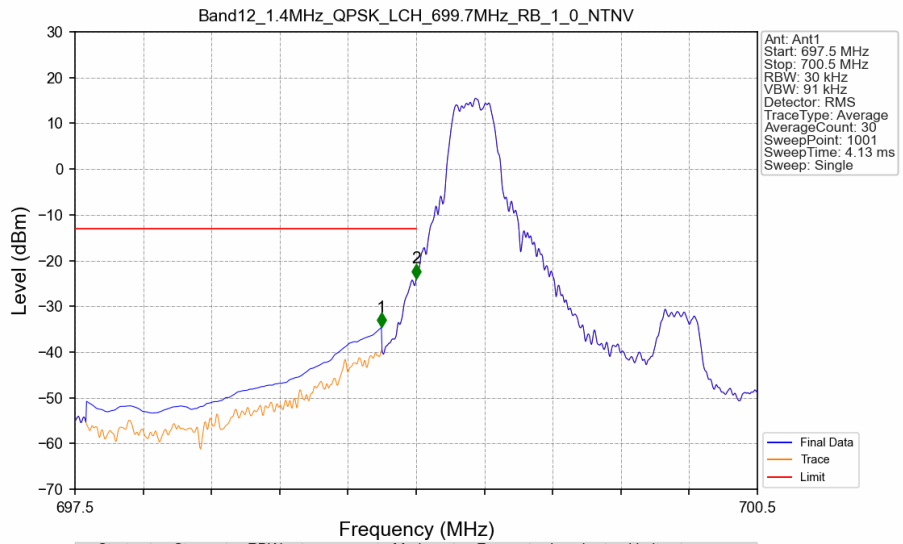
5.1 B12_1.4MHz

5.1.1 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
	715.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

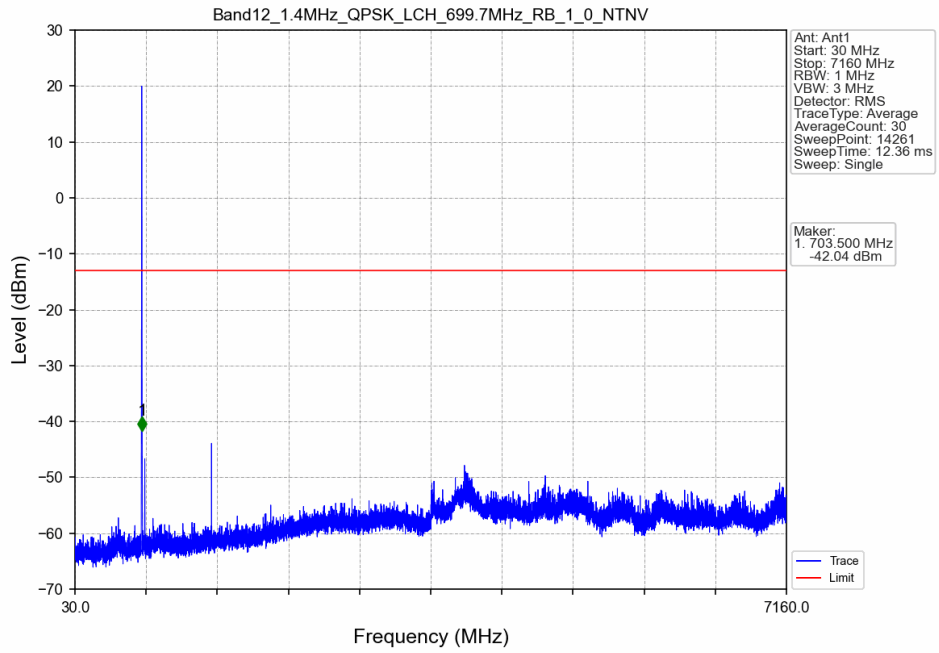
5.1.2 Test Graph

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

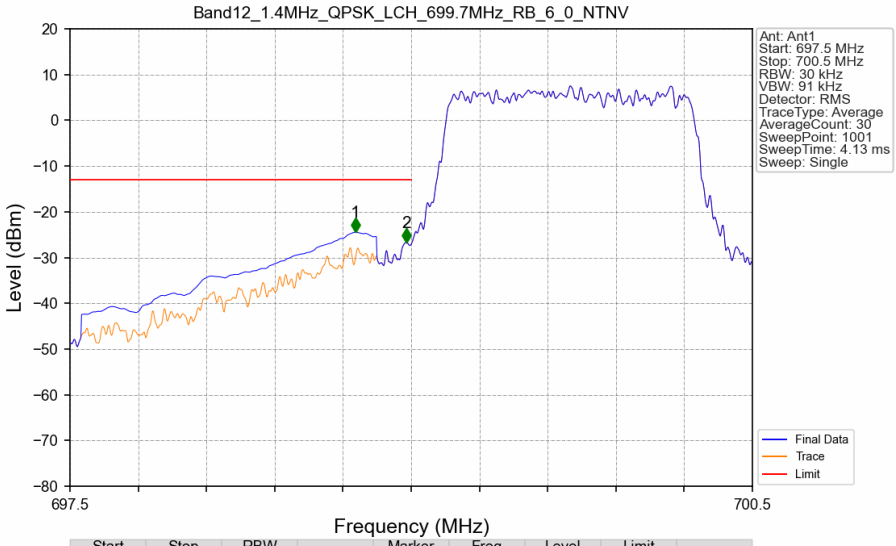


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-34.61	-13	Pass
698.9	699	0.03	/	2	699.000	-23.90	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

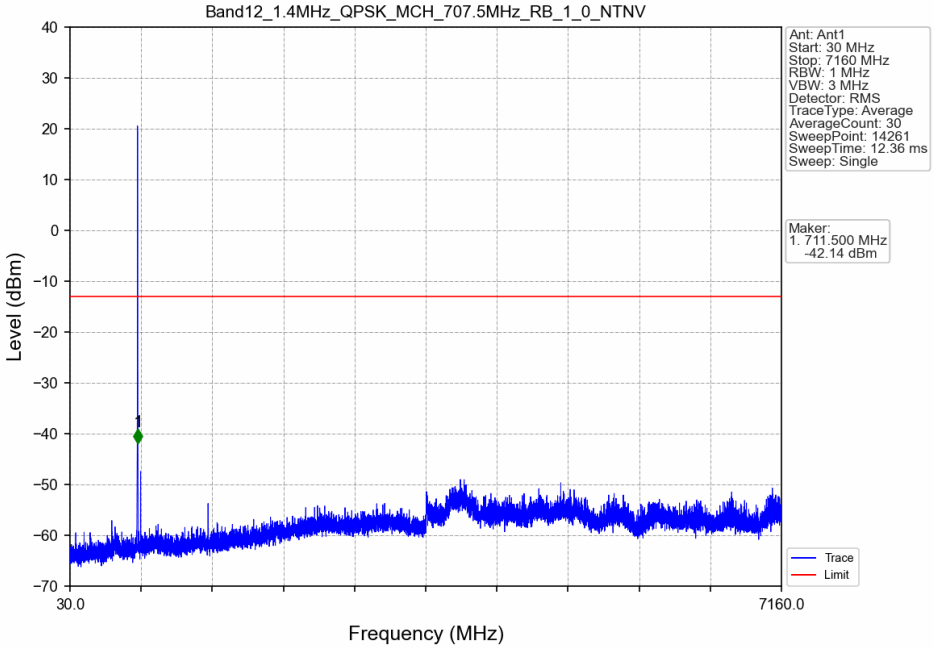


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

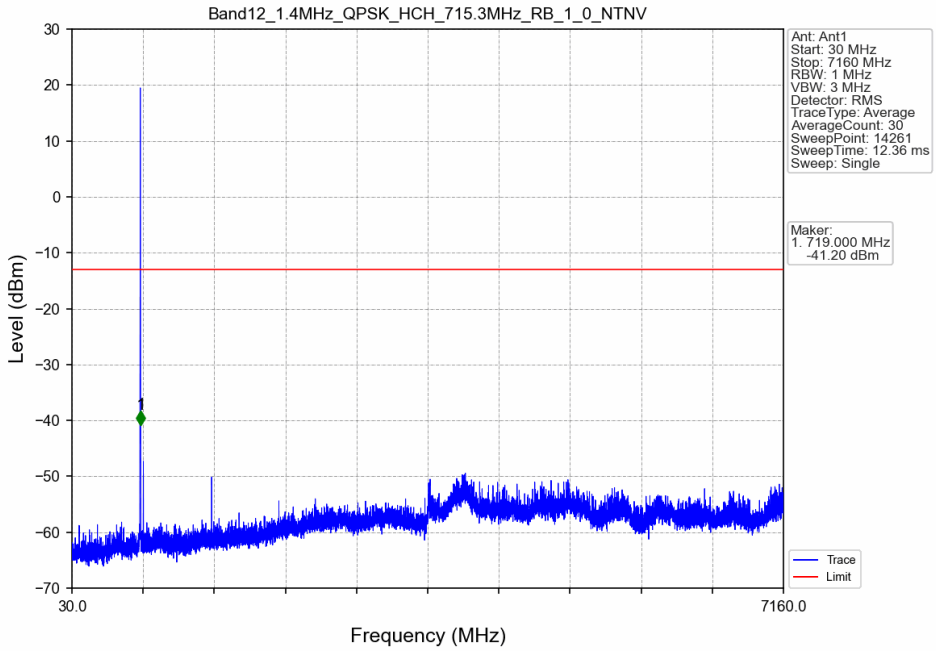


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.754	-24.45	-13	Pass
698.9	699	0.03	/	2	698.979	-26.79	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

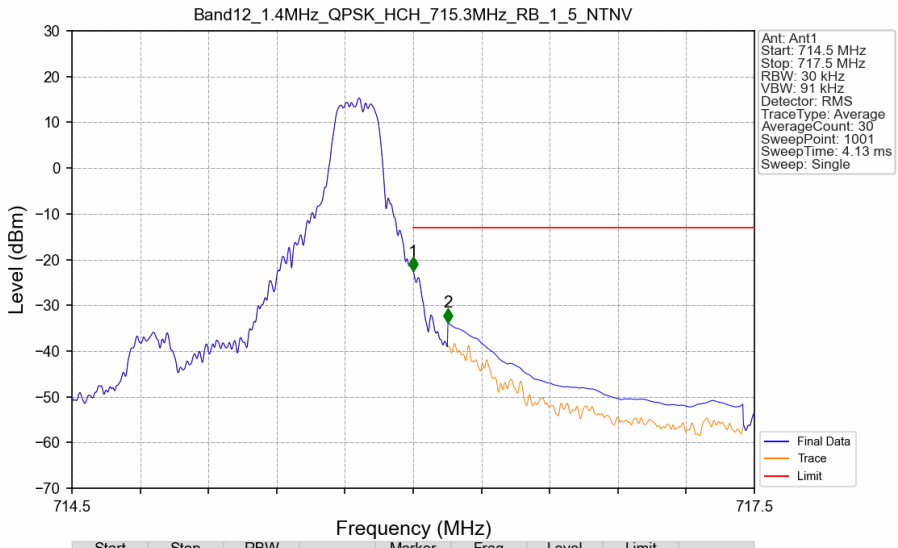
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

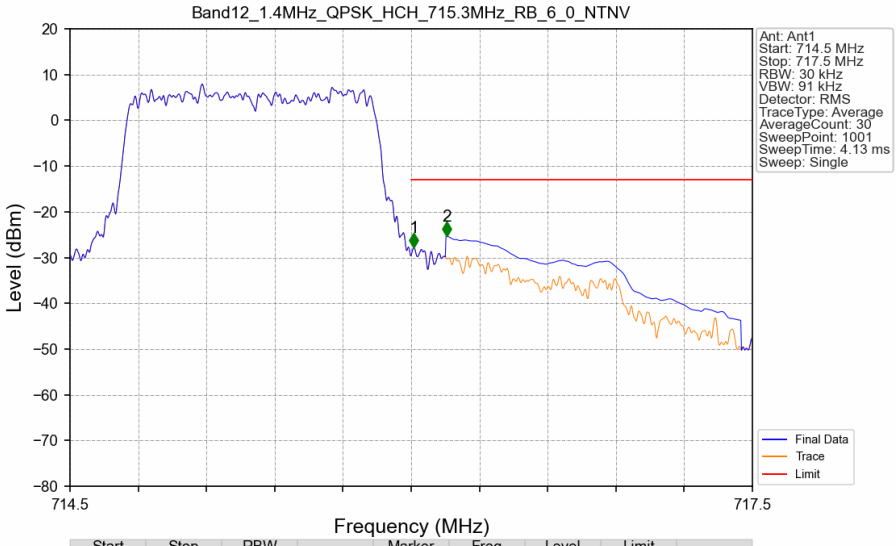


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-22.53	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-33.76	-13	Pass

Band12_1.4MHz_QPSK_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	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-27.87	-13	Pass
716.1	717.5	0.1	CHP	2	716.156	-25.38	-13	Pass

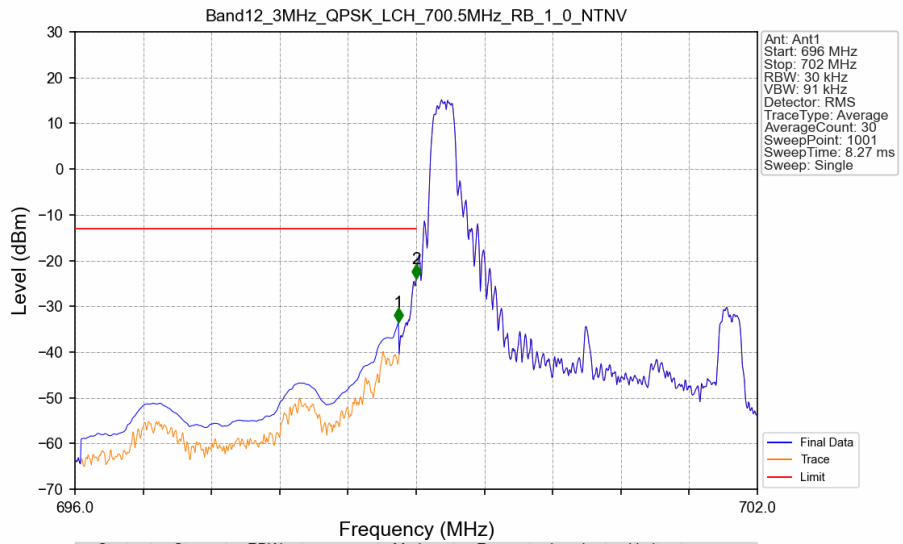
5.2 B12_3MHz

5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
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

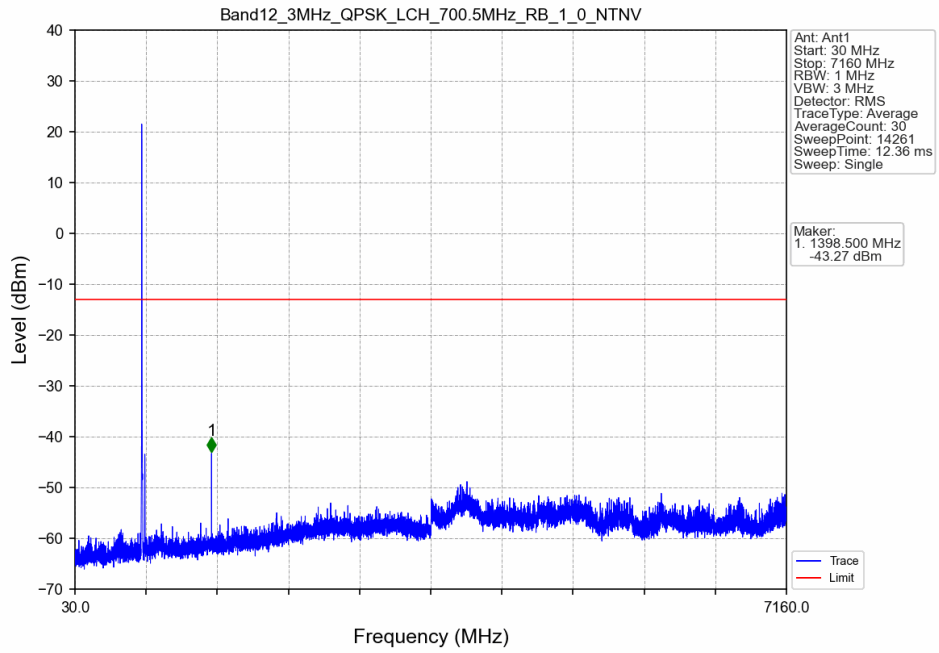
5.2.2 Test Graph

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

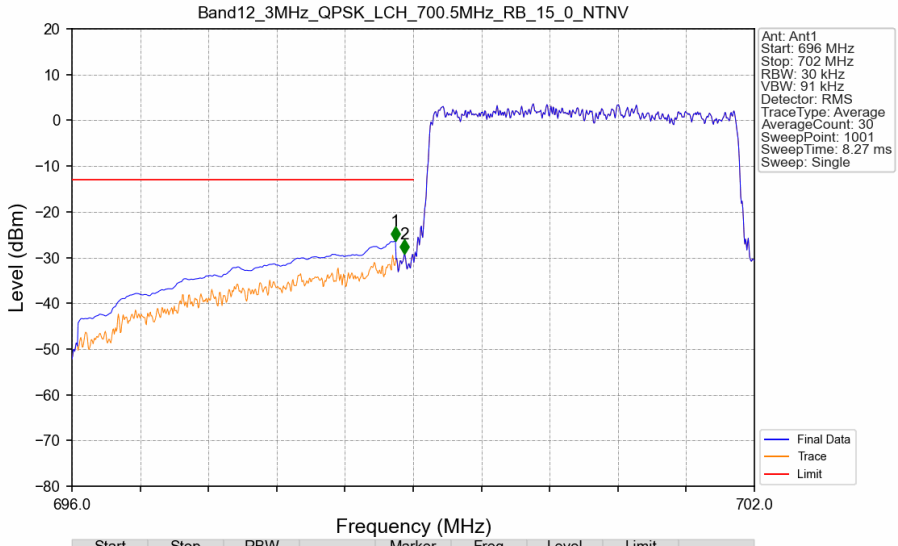


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-33.46	-13	Pass
698.9	699	0.03	/	2	699.000	-23.96	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

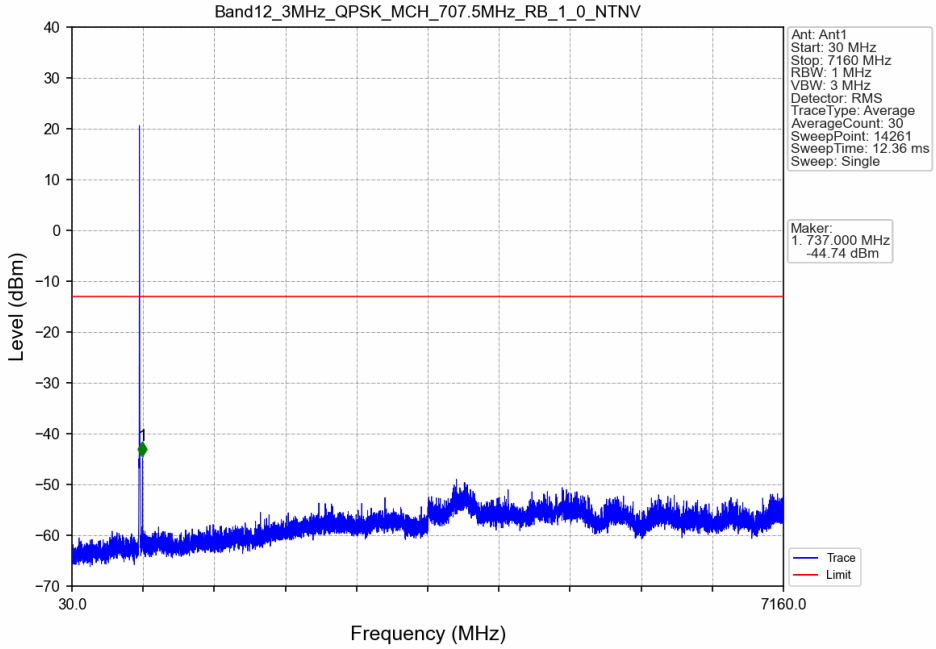


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

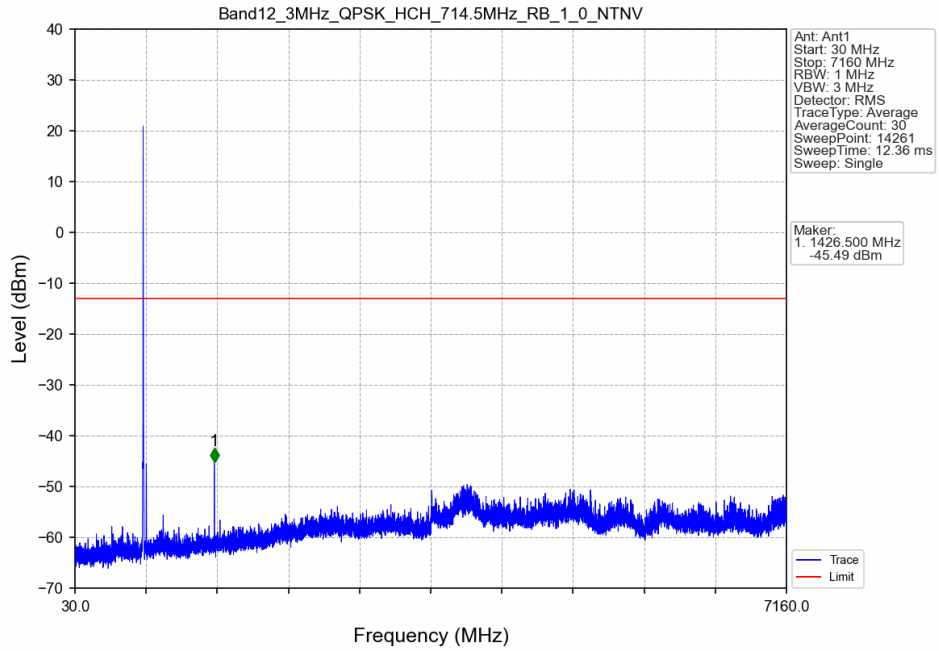


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-26.43	-13	Pass
698.9	699	0.03	/	2	698.922	-29.22	-13	Pass
699	702	0.03	/	/	/	/	/	/

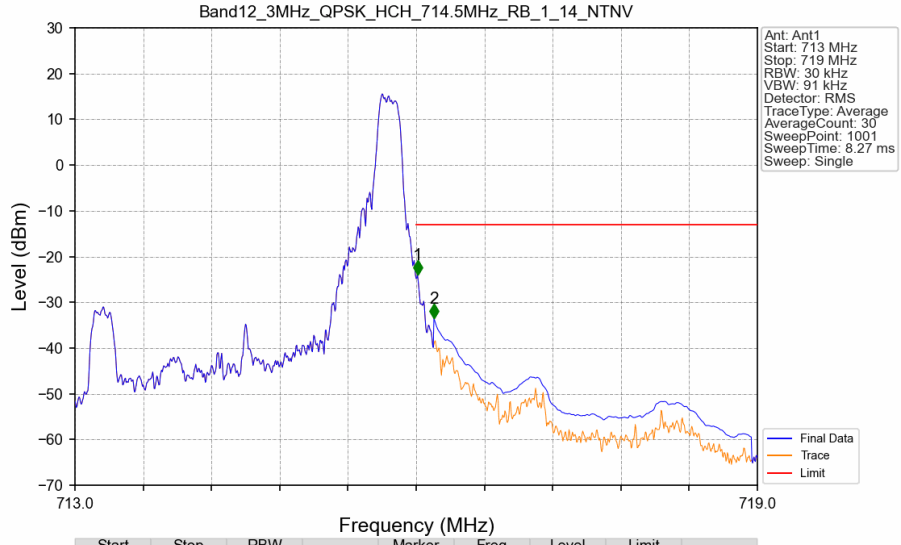
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

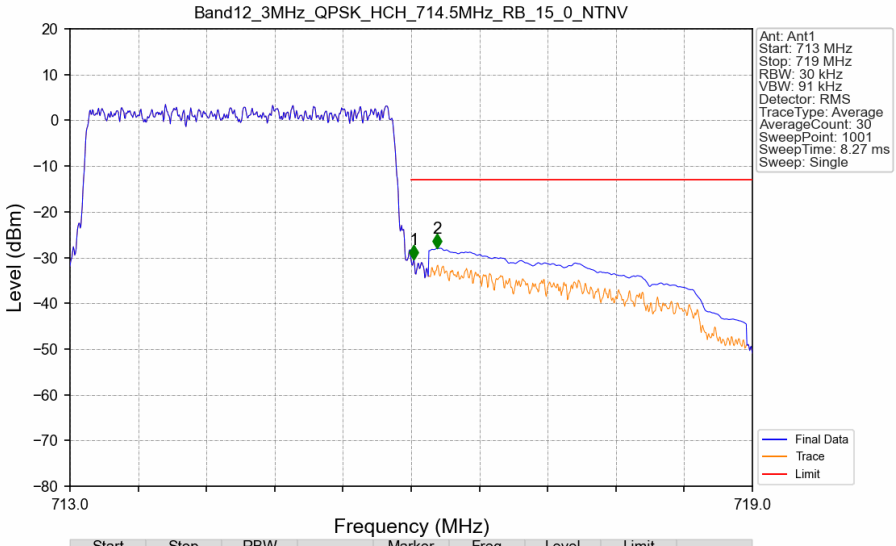


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-24.03	-13	Pass
716.1	719	0.1	CHP	2	716.156	-33.49	-13	Pass

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	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-30.43	-13	Pass
716.1	719	0.1	CHP	2	716.228	-27.96	-13	Pass

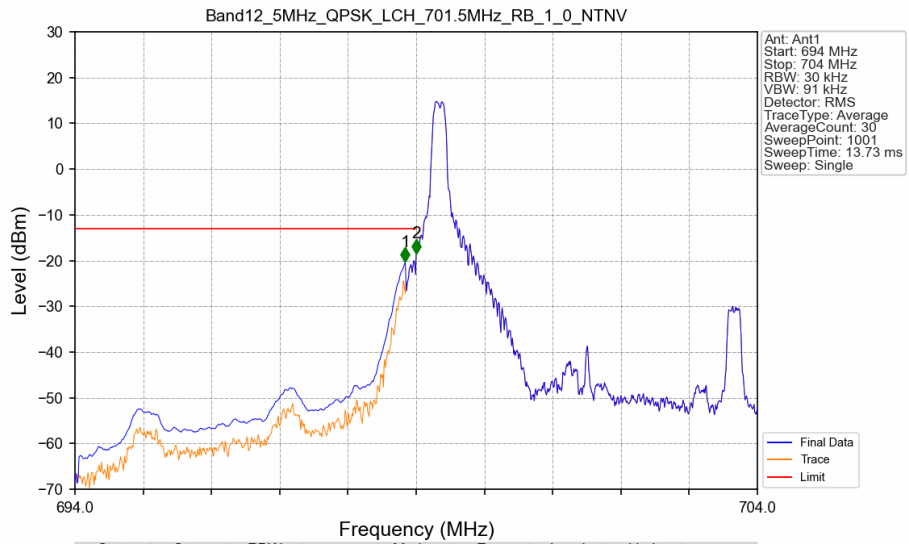
5.3 B12_5MHz

5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
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

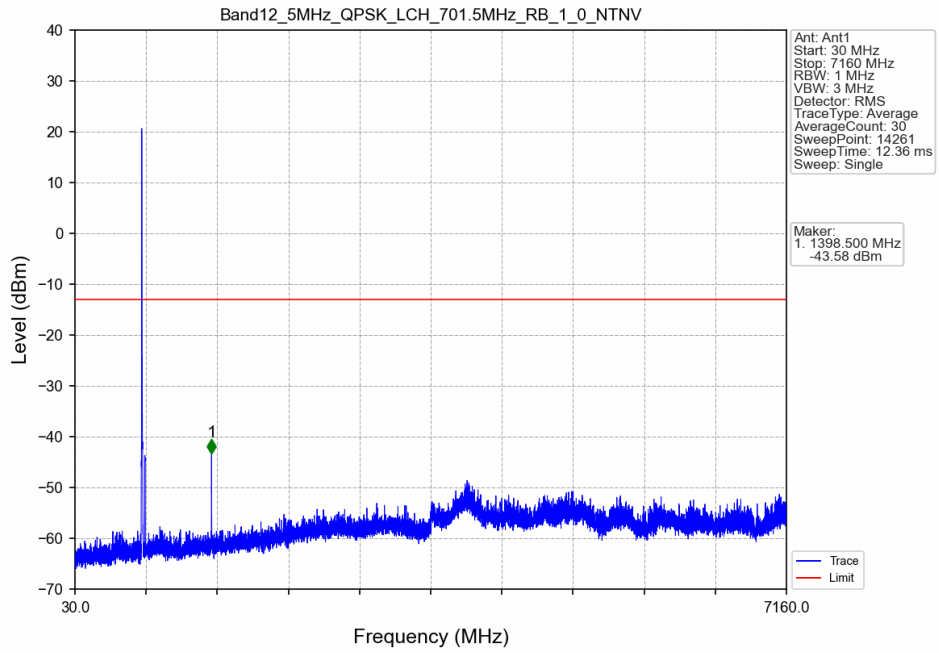
5.3.2 Test Graph

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

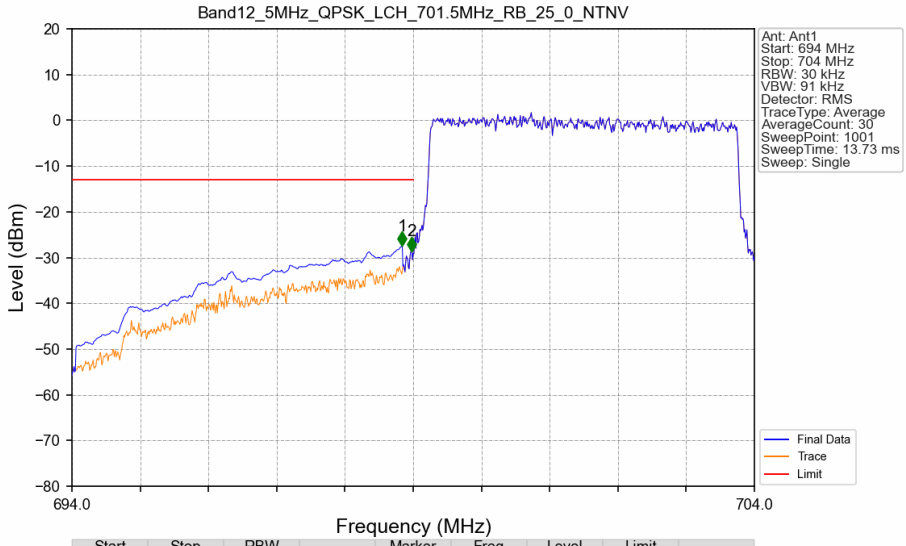


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-20.29	-13	Pass
698.9	699	0.03	/	2	699.000	-18.43	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

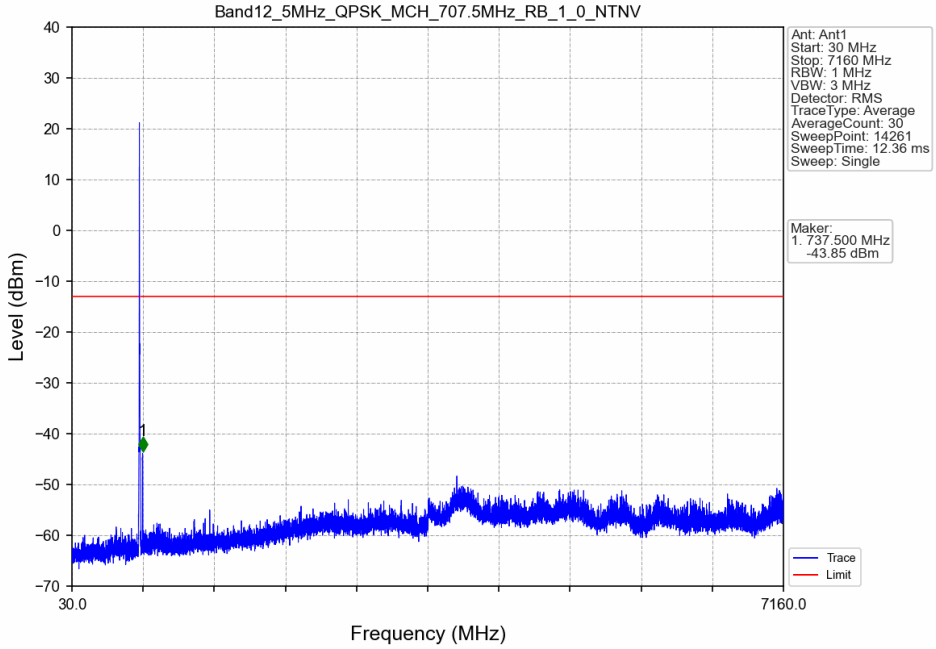


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

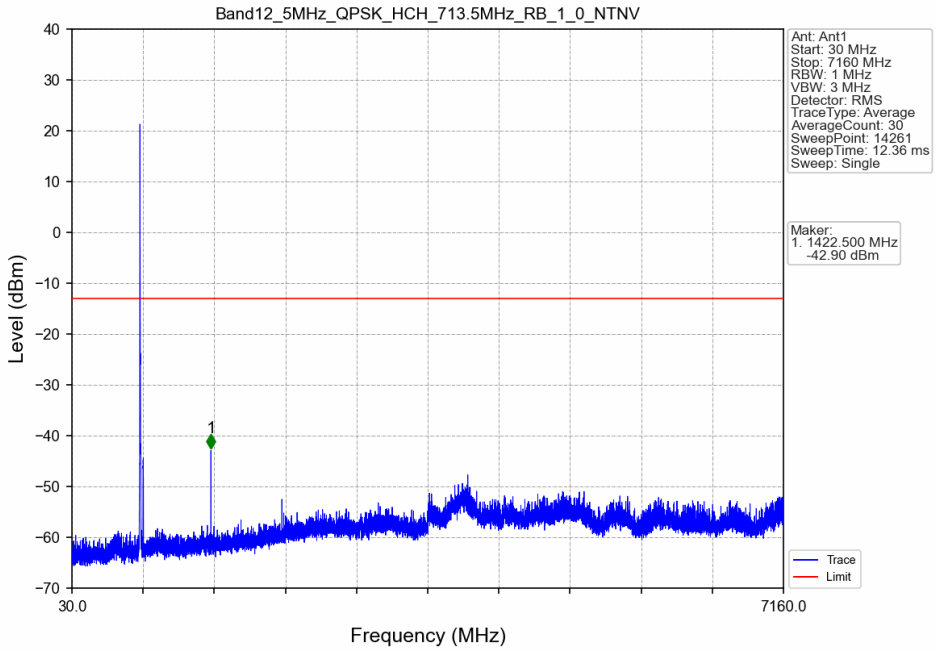


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-27.50	-13	Pass
698.9	699	0.03	/	2	698.980	-28.61	-13	Pass
699	704	0.03	/	/	/	/	/	/

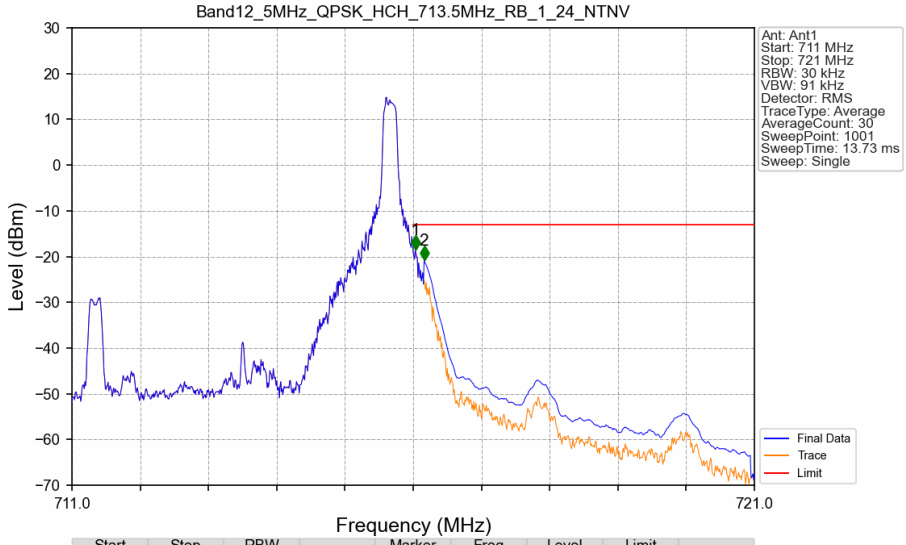
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

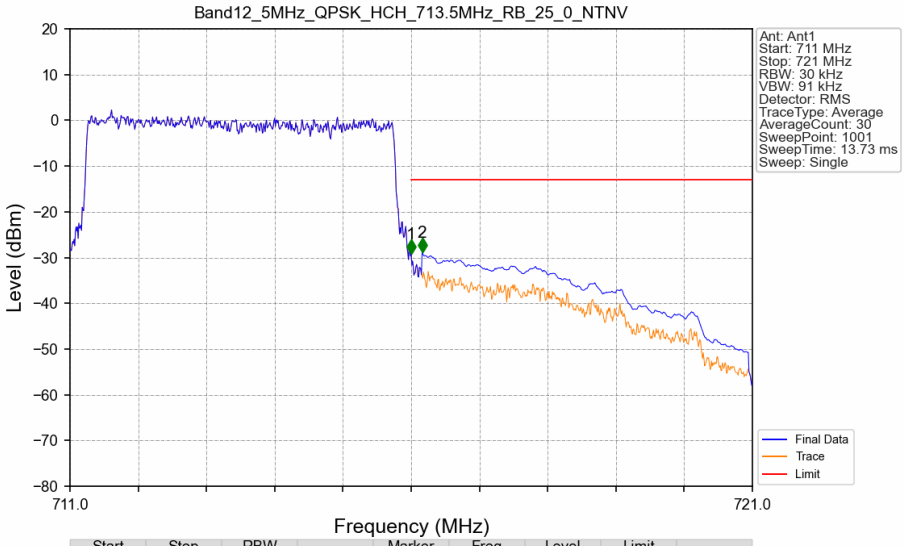


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-18.49	-13	Pass
716.1	721	0.1	CHP	2	716.160	-20.85	-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	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-29.27	-13	Pass
716.1	721	0.1	CHP	2	716.160	-28.88	-13	Pass

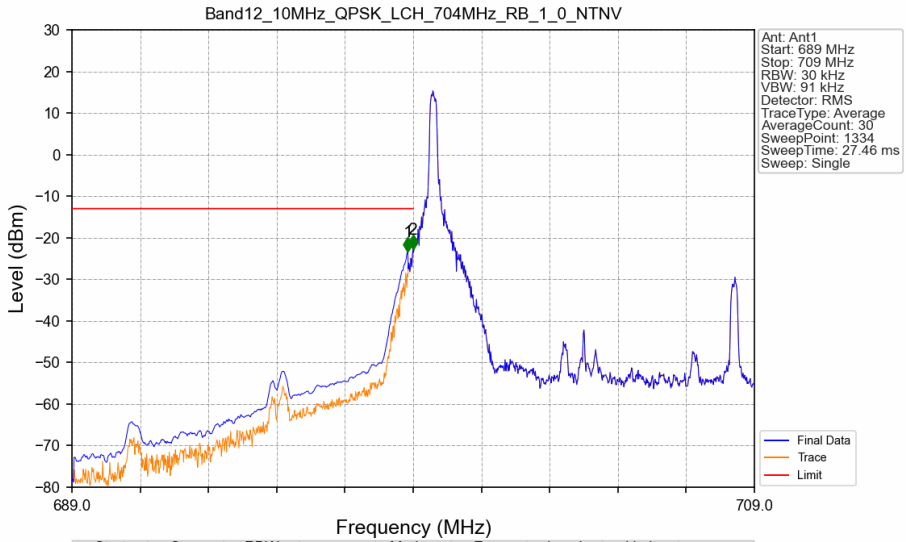
5.4 B12_10MHz

5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
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

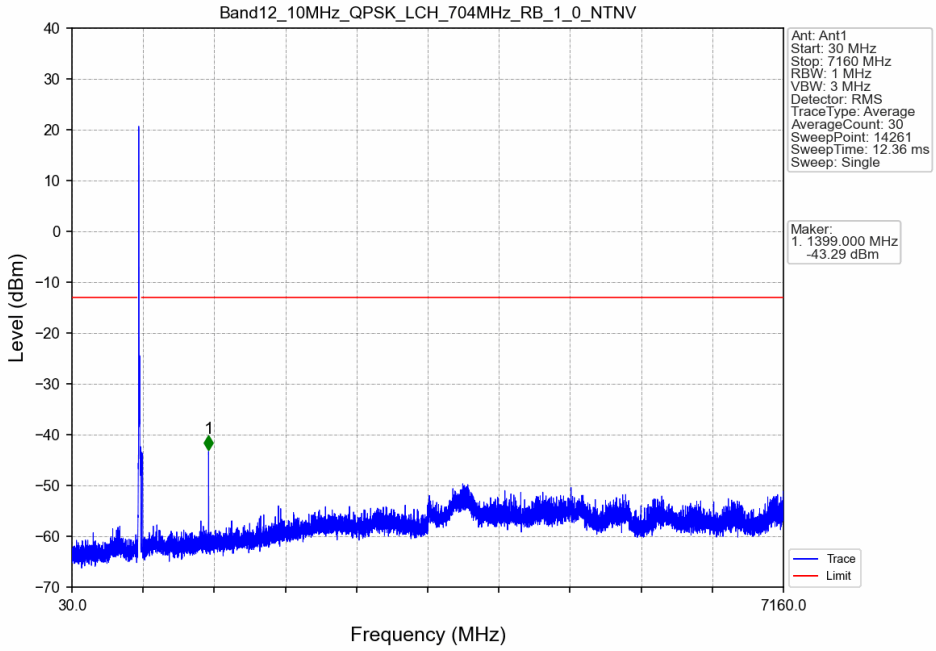
5.4.2 Test Graph

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

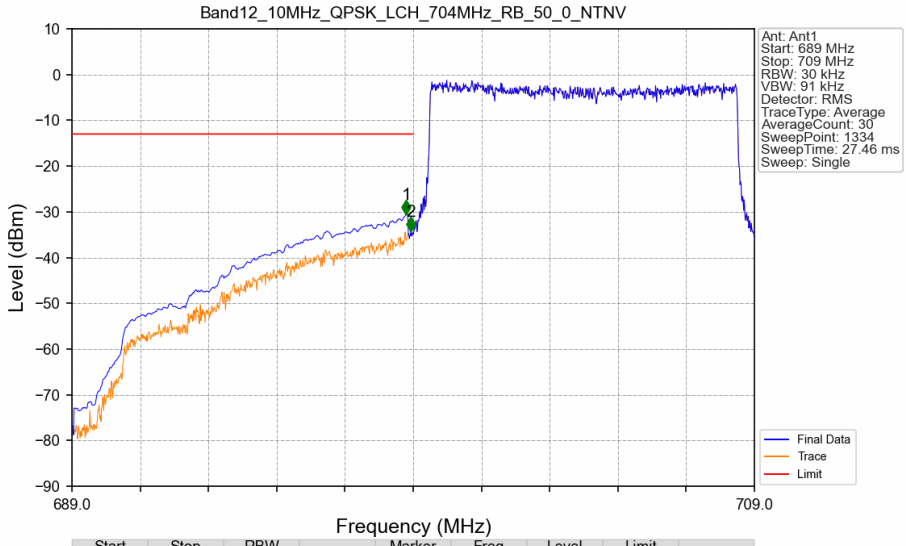


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-23.42	-13	Pass
698.9	699	0.03	/	2	698.992	-22.77	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

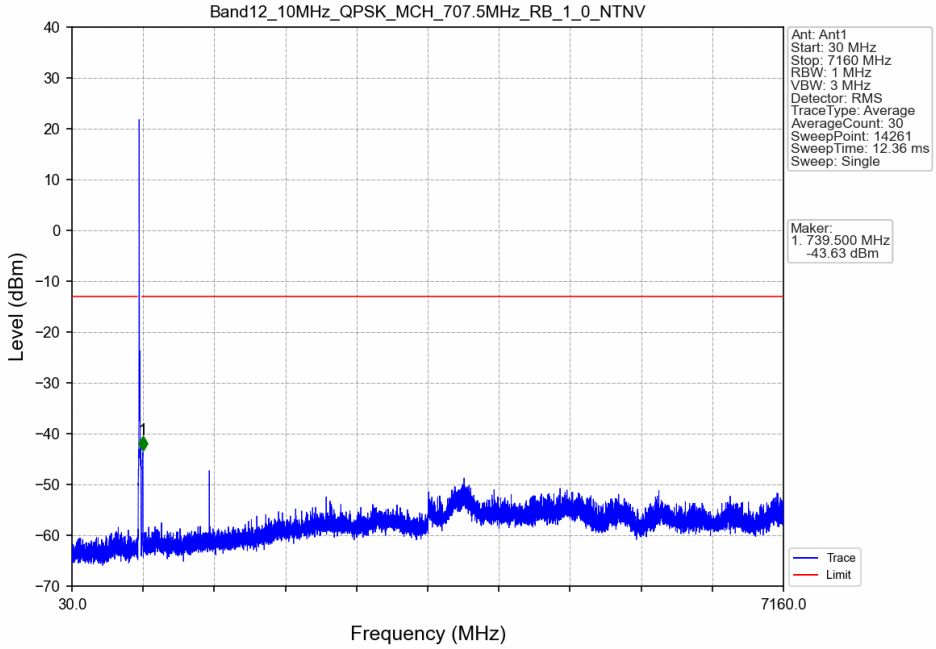


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

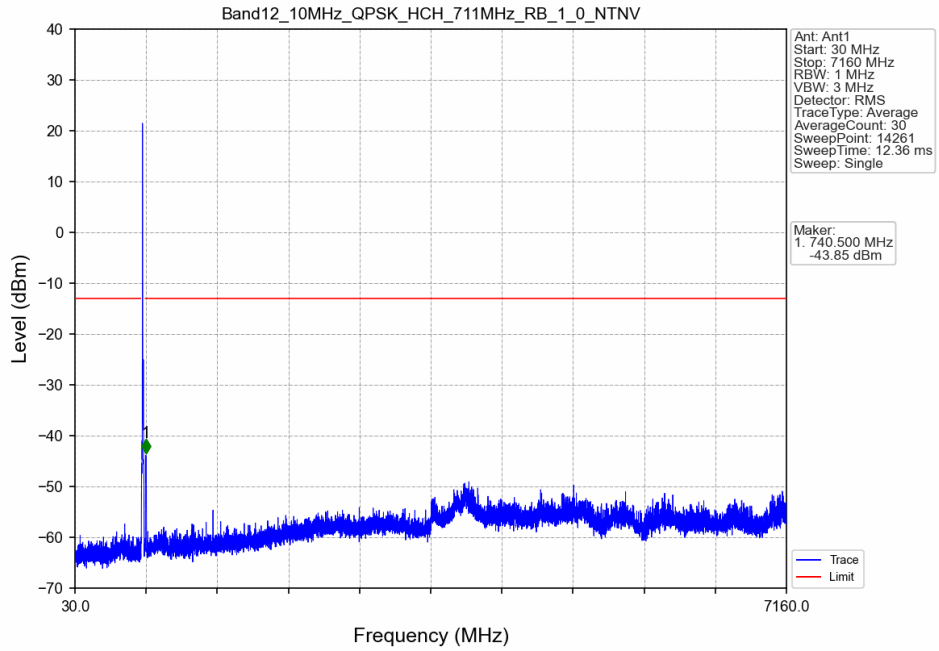


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.797	-30.52	-13	Pass
698.9	699	0.03	/	2	698.932	-34.23	-13	Pass
699	709	0.03	/	/	/	/	/	/

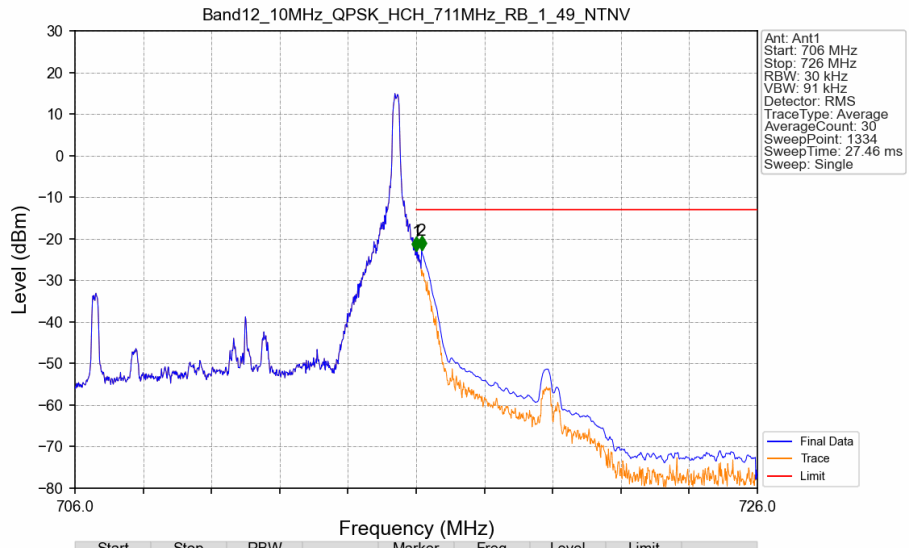
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

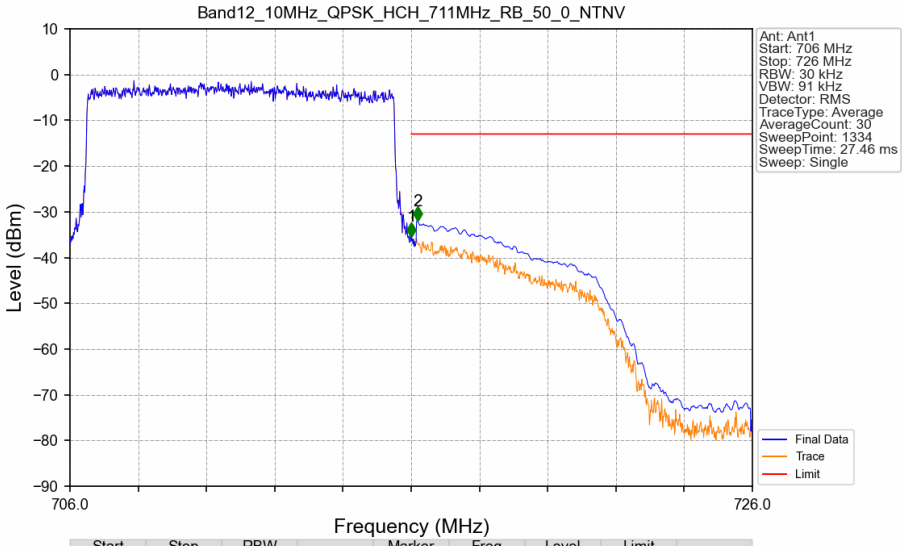


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-23.05	-13	Pass
716.1	726	0.1	CHP	2	716.158	-22.73	-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	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-35.43	-13	Pass
716.1	726	0.1	CHP	2	716.188	-32.01	-13	Pass