

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

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	23.24	3.00	24.09	<=34.77	Pass
			2	23.20	3.00	24.05	<=34.77	Pass
			5	23.21	3.00	24.06	<=34.77	Pass
		3	0	23.21	3.00	24.06	<=34.77	Pass
			2	23.23	3.00	24.08	<=34.77	Pass
			3	23.18	3.00	24.03	<=34.77	Pass
		6	0	22.30	3.00	23.15	<=34.77	Pass
	707.5	1	0	23.09	3.00	23.94	<=34.77	Pass
			2	23.29	3.00	24.14	<=34.77	Pass
			5	23.10	3.00	23.95	<=34.77	Pass
		3	0	23.12	3.00	23.97	<=34.77	Pass
			2	23.14	3.00	23.99	<=34.77	Pass
			3	23.08	3.00	23.93	<=34.77	Pass
		6	0	22.09	3.00	22.94	<=34.77	Pass
	715.3	1	0	22.73	3.00	23.58	<=34.77	Pass
			2	22.55	3.00	23.40	<=34.77	Pass
			5	22.64	3.00	23.49	<=34.77	Pass
		3	0	22.90	3.00	23.75	<=34.77	Pass
			2	22.60	3.00	23.45	<=34.77	Pass
			3	22.69	3.00	23.54	<=34.77	Pass
		6	0	21.85	3.00	22.70	<=34.77	Pass
16QAM	699.7	1	0	22.35	3.00	23.20	<=34.77	Pass
			2	22.69	3.00	23.54	<=34.77	Pass
			5	22.57	3.00	23.42	<=34.77	Pass
		3	0	22.35	3.00	23.20	<=34.77	Pass
			2	22.15	3.00	23.00	<=34.77	Pass
			3	22.25	3.00	23.10	<=34.77	Pass
		6	0	21.36	3.00	22.21	<=34.77	Pass
	707.5	1	0	22.38	3.00	23.23	<=34.77	Pass
			2	22.48	3.00	23.33	<=34.77	Pass
			5	22.04	3.00	22.89	<=34.77	Pass
		3	0	22.39	3.00	23.24	<=34.77	Pass
			2	22.21	3.00	23.06	<=34.77	Pass
			3	22.22	3.00	23.07	<=34.77	Pass
		6	0	21.16	3.00	22.01	<=34.77	Pass
	715.3	1	0	22.89	3.00	23.74	<=34.77	Pass
			2	21.85	3.00	22.70	<=34.77	Pass
			5	22.07	3.00	22.92	<=34.77	Pass
		3	0	22.06	3.00	22.91	<=34.77	Pass
			2	21.86	3.00	22.71	<=34.77	Pass
			3	21.97	3.00	22.82	<=34.77	Pass
		6	0	20.78	3.00	21.63	<=34.77	Pass
64QAM	699.7	1	0	20.99	3.00	21.84	<=34.77	Pass
			2	20.98	3.00	21.83	<=34.77	Pass
			5	21.20	3.00	22.05	<=34.77	Pass
		3	0	21.10	3.00	21.95	<=34.77	Pass

	707.5	6	2	20.96	3.00	21.81	<=34.77	Pass
			3	21.04	3.00	21.89	<=34.77	Pass
		1	0	20.11	3.00	20.96	<=34.77	Pass
			0	21.17	3.00	22.02	<=34.77	Pass
			2	20.86	3.00	21.71	<=34.77	Pass
		3	5	21.07	3.00	21.92	<=34.77	Pass
			0	20.78	3.00	21.63	<=34.77	Pass
			2	21.06	3.00	21.91	<=34.77	Pass
	715.3	6	3	20.93	3.00	21.78	<=34.77	Pass
			0	19.93	3.00	20.78	<=34.77	Pass
			0	20.65	3.00	21.50	<=34.77	Pass
		1	2	20.70	3.00	21.55	<=34.77	Pass
			5	20.72	3.00	21.57	<=34.77	Pass
			0	20.51	3.00	21.36	<=34.77	Pass
		3	2	20.72	3.00	21.57	<=34.77	Pass
			3	20.53	3.00	21.38	<=34.77	Pass
			0	19.36	3.00	20.21	<=34.77	Pass
	256QAM	699.7	0	17.96	3.00	18.81	<=34.77	Pass
			2	18.07	3.00	18.92	<=34.77	Pass
			5	18.02	3.00	18.87	<=34.77	Pass
			0	17.99	3.00	18.84	<=34.77	Pass
			2	18.12	3.00	18.97	<=34.77	Pass
			3	17.93	3.00	18.78	<=34.77	Pass
		707.5	0	18.06	3.00	18.91	<=34.77	Pass
			0	17.96	3.00	18.81	<=34.77	Pass
			2	17.92	3.00	18.77	<=34.77	Pass
			5	17.97	3.00	18.82	<=34.77	Pass
			0	18.06	3.00	18.91	<=34.77	Pass
			2	17.85	3.00	18.70	<=34.77	Pass
		715.3	3	17.90	3.00	18.75	<=34.77	Pass
			0	17.68	3.00	18.53	<=34.77	Pass
			0	17.58	3.00	18.43	<=34.77	Pass
			2	17.69	3.00	18.54	<=34.77	Pass
			5	17.32	3.00	18.17	<=34.77	Pass
			0	17.67	3.00	18.52	<=34.77	Pass
		3	2	17.84	3.00	18.69	<=34.77	Pass
			3	17.65	3.00	18.50	<=34.77	Pass
			0	17.65	3.00	18.50	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.17	3.00	24.02	<=34.77	Pass
			7	23.16	3.00	24.01	<=34.77	Pass
			14	23.02	3.00	23.87	<=34.77	Pass
		8	0	22.33	3.00	23.18	<=34.77	Pass
			4	22.28	3.00	23.13	<=34.77	Pass
			7	22.31	3.00	23.16	<=34.77	Pass
		15	0	22.28	3.00	23.13	<=34.77	Pass
	707.5	1	0	23.12	3.00	23.97	<=34.77	Pass
			7	23.09	3.00	23.94	<=34.77	Pass

	714.5	8	14	22.99	3.00	23.84	<=34.77	Pass
			0	22.25	3.00	23.10	<=34.77	Pass
			4	22.13	3.00	22.98	<=34.77	Pass
			7	22.04	3.00	22.89	<=34.77	Pass
		15	0	22.13	3.00	22.98	<=34.77	Pass
			0	22.64	3.00	23.49	<=34.77	Pass
			7	23.16	3.00	24.01	<=34.77	Pass
		8	14	23.08	3.00	23.93	<=34.77	Pass
			0	21.61	3.00	22.46	<=34.77	Pass
			4	21.91	3.00	22.76	<=34.77	Pass
			7	21.88	3.00	22.73	<=34.77	Pass
		15	0	21.87	3.00	22.72	<=34.77	Pass
16QAM	700.5	1	0	22.33	3.00	23.18	<=34.77	Pass
			7	22.35	3.00	23.20	<=34.77	Pass
			14	22.07	3.00	22.92	<=34.77	Pass
		8	0	21.05	3.00	21.90	<=34.77	Pass
			4	21.24	3.00	22.09	<=34.77	Pass
			7	21.31	3.00	22.16	<=34.77	Pass
		15	0	21.31	3.00	22.16	<=34.77	Pass
			0	22.17	3.00	23.02	<=34.77	Pass
			7	22.46	3.00	23.31	<=34.77	Pass
	707.5	1	14	22.40	3.00	23.25	<=34.77	Pass
			0	21.33	3.00	22.18	<=34.77	Pass
			4	21.22	3.00	22.07	<=34.77	Pass
		8	7	21.13	3.00	21.98	<=34.77	Pass
			0	21.19	3.00	22.04	<=34.77	Pass
			0	22.19	3.00	23.04	<=34.77	Pass
		15	7	22.31	3.00	23.16	<=34.77	Pass
			14	22.10	3.00	22.95	<=34.77	Pass
			0	21.01	3.00	21.86	<=34.77	Pass
	714.5	8	4	20.93	3.00	21.78	<=34.77	Pass
			7	20.95	3.00	21.80	<=34.77	Pass
			0	20.91	3.00	21.76	<=34.77	Pass
		15	0	21.10	3.00	21.95	<=34.77	Pass
			7	20.92	3.00	21.77	<=34.77	Pass
			14	20.77	3.00	21.62	<=34.77	Pass
		8	0	20.12	3.00	20.97	<=34.77	Pass
			4	20.10	3.00	20.95	<=34.77	Pass
			7	20.07	3.00	20.92	<=34.77	Pass
	707.5	1	0	20.07	3.00	20.92	<=34.77	Pass
			0	20.95	3.00	21.80	<=34.77	Pass
			7	21.00	3.00	21.85	<=34.77	Pass
		8	14	21.13	3.00	21.98	<=34.77	Pass
			0	20.00	3.00	20.85	<=34.77	Pass
			4	19.89	3.00	20.74	<=34.77	Pass
		15	7	20.01	3.00	20.86	<=34.77	Pass
			0	19.87	3.00	20.72	<=34.77	Pass
			0	20.63	3.00	21.48	<=34.77	Pass
	714.5	1	7	20.16	3.00	21.01	<=34.77	Pass
			14	20.41	3.00	21.26	<=34.77	Pass
			0	19.81	3.00	20.66	<=34.77	Pass
		8	4	19.62	3.00	20.47	<=34.77	Pass
			7	19.67	3.00	20.52	<=34.77	Pass
			0	19.83	3.00	20.68	<=34.77	Pass
		15	0	18.14	3.00	18.99	<=34.77	Pass
			7	18.25	3.00	19.10	<=34.77	Pass
			0	18.25	3.00	19.10	<=34.77	Pass
256QAM	700.5	1	0	18.14	3.00	18.99	<=34.77	Pass
			7	18.25	3.00	19.10	<=34.77	Pass

	707.5	8	14	17.98	3.00	18.83	<=34.77	Pass
			0	18.10	3.00	18.95	<=34.77	Pass
			4	18.03	3.00	18.88	<=34.77	Pass
			7	18.12	3.00	18.97	<=34.77	Pass
		15	0	18.05	3.00	18.90	<=34.77	Pass
			0	17.86	3.00	18.71	<=34.77	Pass
			7	18.08	3.00	18.93	<=34.77	Pass
			14	17.76	3.00	18.61	<=34.77	Pass
		8	0	17.90	3.00	18.75	<=34.77	Pass
			4	17.94	3.00	18.79	<=34.77	Pass
			7	17.83	3.00	18.68	<=34.77	Pass
			15	17.88	3.00	18.73	<=34.77	Pass
	714.5	1	0	17.77	3.00	18.62	<=34.77	Pass
			7	18.03	3.00	18.88	<=34.77	Pass
			14	17.29	3.00	18.14	<=34.77	Pass
			0	17.69	3.00	18.54	<=34.77	Pass
		8	4	17.76	3.00	18.61	<=34.77	Pass
			7	17.65	3.00	18.50	<=34.77	Pass
			15	17.70	3.00	18.55	<=34.77	Pass
			0	17.70	3.00	18.55	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

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	23.15	3.00	24.00	<=34.77	Pass
			13	23.25	3.00	24.10	<=34.77	Pass
			24	23.10	3.00	23.95	<=34.77	Pass
		12	0	22.36	3.00	23.21	<=34.77	Pass
			6	22.32	3.00	23.17	<=34.77	Pass
			13	22.21	3.00	23.06	<=34.77	Pass
		25	0	22.23	3.00	23.08	<=34.77	Pass
	707.5	1	0	23.08	3.00	23.93	<=34.77	Pass
			13	23.12	3.00	23.97	<=34.77	Pass
			24	22.99	3.00	23.84	<=34.77	Pass
		12	0	22.19	3.00	23.04	<=34.77	Pass
			6	22.13	3.00	22.98	<=34.77	Pass
			13	22.08	3.00	22.93	<=34.77	Pass
		25	0	22.13	3.00	22.98	<=34.77	Pass
	713.5	1	0	22.97	3.00	23.82	<=34.77	Pass
			13	22.91	3.00	23.76	<=34.77	Pass
			24	22.73	3.00	23.58	<=34.77	Pass
		12	0	22.01	3.00	22.86	<=34.77	Pass
			6	21.82	3.00	22.67	<=34.77	Pass
			13	21.81	3.00	22.66	<=34.77	Pass
		25	0	21.93	3.00	22.78	<=34.77	Pass
16QAM	701.5	1	0	22.18	3.00	23.03	<=34.77	Pass
			13	21.91	3.00	22.76	<=34.77	Pass
			24	22.43	3.00	23.28	<=34.77	Pass
		12	0	21.32	3.00	22.17	<=34.77	Pass
			6	21.32	3.00	22.17	<=34.77	Pass
			13	21.63	3.00	22.48	<=34.77	Pass
		25	0	21.28	3.00	22.13	<=34.77	Pass

	707.5	1	0	22.19	3.00	23.04	<=34.77	Pass
			13	22.19	3.00	23.04	<=34.77	Pass
			24	22.14	3.00	22.99	<=34.77	Pass
		12	0	21.22	3.00	22.07	<=34.77	Pass
			6	21.16	3.00	22.01	<=34.77	Pass
			13	21.21	3.00	22.06	<=34.77	Pass
		25	0	21.17	3.00	22.02	<=34.77	Pass
	713.5	1	0	22.55	3.00	23.40	<=34.77	Pass
			13	22.08	3.00	22.93	<=34.77	Pass
			24	21.96	3.00	22.81	<=34.77	Pass
		12	0	20.97	3.00	21.82	<=34.77	Pass
			6	21.02	3.00	21.87	<=34.77	Pass
			13	20.87	3.00	21.72	<=34.77	Pass
		25	0	20.91	3.00	21.76	<=34.77	Pass
64QAM	701.5	1	0	21.21	3.00	22.06	<=34.77	Pass
			13	21.25	3.00	22.10	<=34.77	Pass
			24	20.97	3.00	21.82	<=34.77	Pass
		12	0	20.11	3.00	20.96	<=34.77	Pass
			6	20.11	3.00	20.96	<=34.77	Pass
			13	20.03	3.00	20.88	<=34.77	Pass
		25	0	20.02	3.00	20.87	<=34.77	Pass
	707.5	1	0	20.97	3.00	21.82	<=34.77	Pass
			13	20.94	3.00	21.79	<=34.77	Pass
			24	21.01	3.00	21.86	<=34.77	Pass
		12	0	19.93	3.00	20.78	<=34.77	Pass
			6	20.01	3.00	20.86	<=34.77	Pass
			13	19.93	3.00	20.78	<=34.77	Pass
		25	0	19.91	3.00	20.76	<=34.77	Pass
	713.5	1	0	20.60	3.00	21.45	<=34.77	Pass
			13	20.87	3.00	21.72	<=34.77	Pass
			24	20.22	3.00	21.07	<=34.77	Pass
		12	0	19.92	3.00	20.77	<=34.77	Pass
			6	19.82	3.00	20.67	<=34.77	Pass
			13	19.66	3.00	20.51	<=34.77	Pass
		25	0	19.76	3.00	20.61	<=34.77	Pass
256QAM	701.5	1	0	18.07	3.00	18.92	<=34.77	Pass
			13	18.14	3.00	18.99	<=34.77	Pass
			24	17.78	3.00	18.63	<=34.77	Pass
		12	0	18.13	3.00	18.98	<=34.77	Pass
			6	18.13	3.00	18.98	<=34.77	Pass
			13	18.01	3.00	18.86	<=34.77	Pass
		25	0	18.05	3.00	18.90	<=34.77	Pass
	707.5	1	0	17.90	3.00	18.75	<=34.77	Pass
			13	18.33	3.00	19.18	<=34.77	Pass
			24	17.99	3.00	18.84	<=34.77	Pass
		12	0	17.90	3.00	18.75	<=34.77	Pass
			6	17.87	3.00	18.72	<=34.77	Pass
			13	17.85	3.00	18.70	<=34.77	Pass
		25	0	17.83	3.00	18.68	<=34.77	Pass
	713.5	1	0	17.76	3.00	18.61	<=34.77	Pass
			13	17.62	3.00	18.47	<=34.77	Pass
			24	17.56	3.00	18.41	<=34.77	Pass
		12	0	17.87	3.00	18.72	<=34.77	Pass
			6	17.85	3.00	18.70	<=34.77	Pass
			13	17.71	3.00	18.56	<=34.77	Pass
		25	0	17.75	3.00	18.60	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

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	23.27	3.00	24.12	<=34.77	Pass
			25	23.21	3.00	24.06	<=34.77	Pass
			49	23.03	3.00	23.88	<=34.77	Pass
		25	0	22.26	3.00	23.11	<=34.77	Pass
			13	22.28	3.00	23.13	<=34.77	Pass
			25	22.15	3.00	23.00	<=34.77	Pass
		50	0	22.23	3.00	23.08	<=34.77	Pass
	707.5	1	0	23.19	3.00	24.04	<=34.77	Pass
			25	23.11	3.00	23.96	<=34.77	Pass
			49	23.21	3.00	24.06	<=34.77	Pass
		25	0	22.19	3.00	23.04	<=34.77	Pass
			13	22.21	3.00	23.06	<=34.77	Pass
			25	22.04	3.00	22.89	<=34.77	Pass
		50	0	22.12	3.00	22.97	<=34.77	Pass
	711	1	0	23.17	3.00	24.02	<=34.77	Pass
			25	22.93	3.00	23.78	<=34.77	Pass
			49	22.62	3.00	23.47	<=34.77	Pass
		25	0	22.11	3.00	22.96	<=34.77	Pass
			13	22.09	3.00	22.94	<=34.77	Pass
			25	21.92	3.00	22.77	<=34.77	Pass
		50	0	22.09	3.00	22.94	<=34.77	Pass
16QAM	704	1	0	22.35	3.00	23.20	<=34.77	Pass
			25	21.96	3.00	22.81	<=34.77	Pass
			49	22.05	3.00	22.90	<=34.77	Pass
		25	0	21.16	3.00	22.01	<=34.77	Pass
			13	21.28	3.00	22.13	<=34.77	Pass
			25	21.22	3.00	22.07	<=34.77	Pass
		50	0	21.23	3.00	22.08	<=34.77	Pass
	707.5	1	0	22.24	3.00	23.09	<=34.77	Pass
			25	22.30	3.00	23.15	<=34.77	Pass
			49	22.02	3.00	22.87	<=34.77	Pass
		25	0	21.09	3.00	21.94	<=34.77	Pass
			13	21.21	3.00	22.06	<=34.77	Pass
			25	21.15	3.00	22.00	<=34.77	Pass
		50	0	21.14	3.00	21.99	<=34.77	Pass
	711	1	0	22.02	3.00	22.87	<=34.77	Pass
			25	22.32	3.00	23.17	<=34.77	Pass
			49	21.73	3.00	22.58	<=34.77	Pass
		25	0	21.11	3.00	21.96	<=34.77	Pass
			13	21.08	3.00	21.93	<=34.77	Pass
			25	20.98	3.00	21.83	<=34.77	Pass
		50	0	21.14	3.00	21.99	<=34.77	Pass
64QAM	704	1	0	21.00	3.00	21.85	<=34.77	Pass
			25	20.48	3.00	21.33	<=34.77	Pass
			49	20.73	3.00	21.58	<=34.77	Pass
		25	0	20.08	3.00	20.93	<=34.77	Pass
			13	20.06	3.00	20.91	<=34.77	Pass

			25	20.04	3.00	20.89	<=34.77	Pass
		50	0	20.02	3.00	20.87	<=34.77	Pass
	707.5	1	0	21.02	3.00	21.87	<=34.77	Pass
			25	21.09	3.00	21.94	<=34.77	Pass
			49	20.84	3.00	21.69	<=34.77	Pass
		25	0	19.99	3.00	20.84	<=34.77	Pass
			13	19.93	3.00	20.78	<=34.77	Pass
			25	19.81	3.00	20.66	<=34.77	Pass
		50	0	19.94	3.00	20.79	<=34.77	Pass
	711	1	0	20.89	3.00	21.74	<=34.77	Pass
			25	20.68	3.00	21.53	<=34.77	Pass
			49	20.67	3.00	21.52	<=34.77	Pass
		25	0	19.89	3.00	20.74	<=34.77	Pass
			13	19.88	3.00	20.73	<=34.77	Pass
			25	19.72	3.00	20.57	<=34.77	Pass
		50	0	19.86	3.00	20.71	<=34.77	Pass
256QAM	704	1	0	18.08	3.00	18.93	<=34.77	Pass
			25	17.86	3.00	18.71	<=34.77	Pass
			49	17.93	3.00	18.78	<=34.77	Pass
		25	0	17.94	3.00	18.79	<=34.77	Pass
			13	18.08	3.00	18.93	<=34.77	Pass
			25	17.97	3.00	18.82	<=34.77	Pass
		50	0	18.02	3.00	18.87	<=34.77	Pass
	707.5	1	0	18.09	3.00	18.94	<=34.77	Pass
			25	18.11	3.00	18.96	<=34.77	Pass
			49	17.87	3.00	18.72	<=34.77	Pass
		25	0	17.96	3.00	18.81	<=34.77	Pass
			13	17.93	3.00	18.78	<=34.77	Pass
			25	17.80	3.00	18.65	<=34.77	Pass
		50	0	17.86	3.00	18.71	<=34.77	Pass
	711	1	0	17.71	3.00	18.56	<=34.77	Pass
			25	17.97	3.00	18.82	<=34.77	Pass
			49	17.71	3.00	18.56	<=34.77	Pass
		25	0	17.83	3.00	18.68	<=34.77	Pass
			13	17.93	3.00	18.78	<=34.77	Pass
			25	17.75	3.00	18.60	<=34.77	Pass
		50	0	17.90	3.00	18.75	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	707.5	50	0	20	LV	0.700	0.0010	-2.5 to 2.5	Pass
					NV	0.600	0.0008	-2.5 to 2.5	Pass
					HV	-0.500	-0.0007	-2.5 to 2.5	Pass
				0	NV	2.000	0.0028	-2.5 to 2.5	Pass
				10	NV	1.100	0.0016	-2.5 to 2.5	Pass
				30	NV	0.300	0.0004	-2.5 to 2.5	Pass
				40	NV	-0.200	-0.0003	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

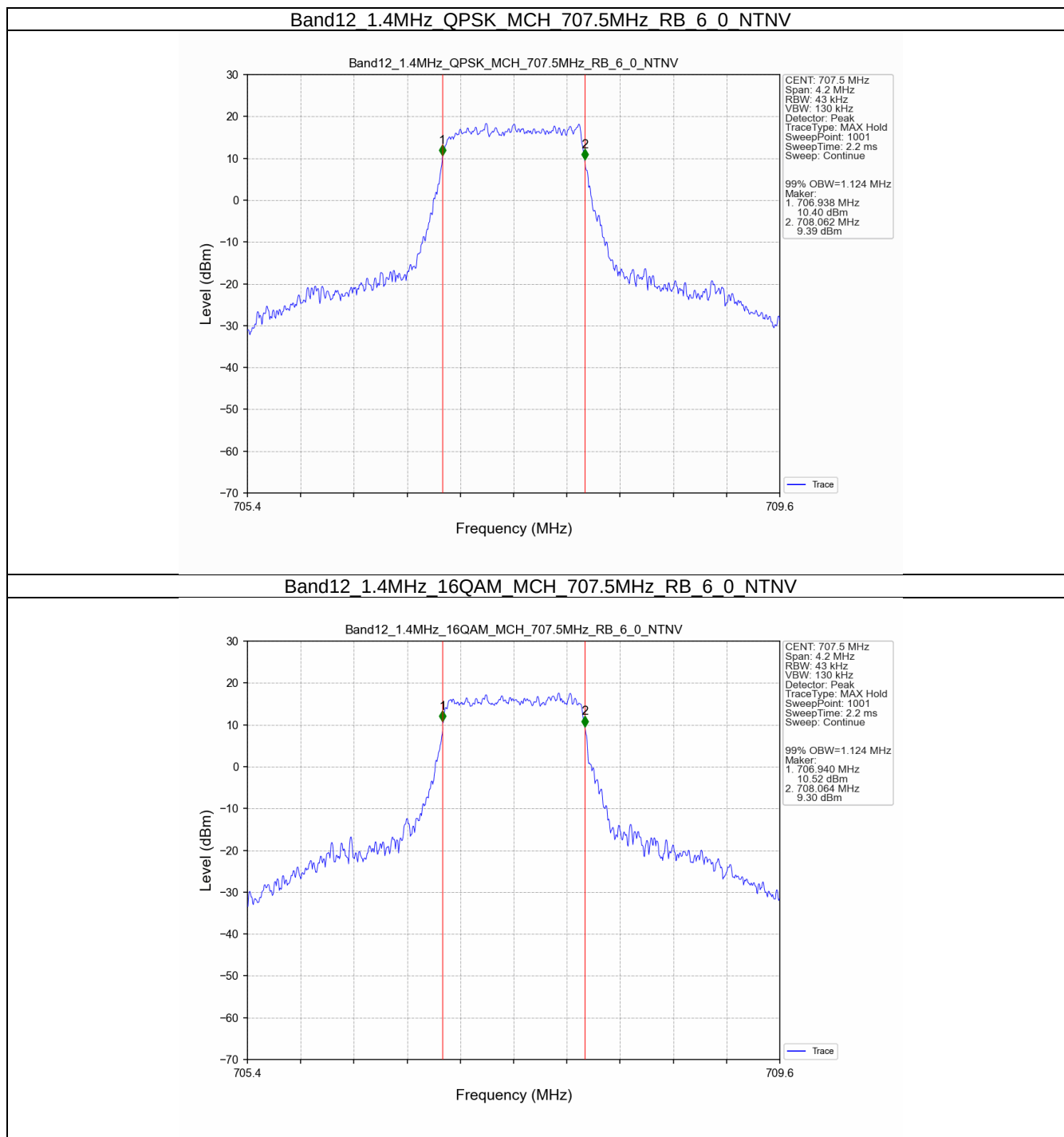
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.124	/	Pass
	16QAM	707.5	6	0	1.124	/	Pass
	64QAM	707.5	6	0	1.118	/	Pass
	256QAM	707.5	6	0	1.119	/	Pass
3	QPSK	707.5	15	0	2.741	/	Pass
	16QAM	707.5	15	0	2.749	/	Pass
	64QAM	707.5	15	0	2.747	/	Pass
	256QAM	707.5	15	0	2.657	/	Pass
5	QPSK	707.5	25	0	4.584	/	Pass
	16QAM	707.5	25	0	4.554	/	Pass
	64QAM	707.5	25	0	4.552	/	Pass
	256QAM	707.5	25	0	4.566	/	Pass
10	QPSK	707.5	50	0	9.034	/	Pass
	16QAM	707.5	50	0	9.068	/	Pass
	64QAM	707.5	50	0	9.009	/	Pass
	256QAM	707.5	50	0	9.012	/	Pass

3.1.2 Band12_XDB

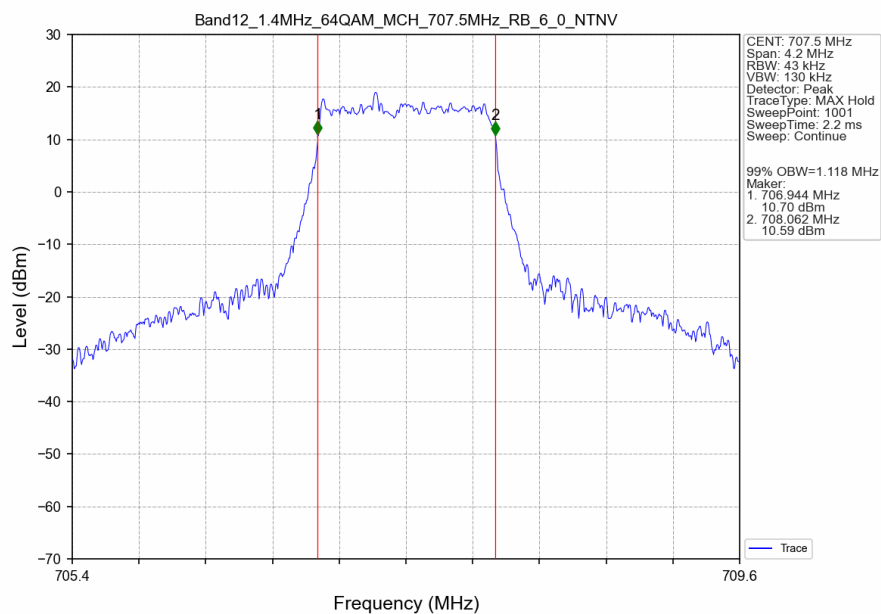
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.387	/	Pass
	16QAM	707.5	6	0	1.397	/	Pass
	64QAM	707.5	6	0	1.342	/	Pass
	256QAM	707.5	6	0	1.382	/	Pass
3	QPSK	707.5	15	0	3.143	/	Pass
	16QAM	707.5	15	0	3.118	/	Pass
	64QAM	707.5	15	0	3.108	/	Pass
	256QAM	707.5	15	0	2.950	/	Pass
5	QPSK	707.5	25	0	5.195	/	Pass
	16QAM	707.5	25	0	5.185	/	Pass
	64QAM	707.5	25	0	5.163	/	Pass
	256QAM	707.5	25	0	5.217	/	Pass
10	QPSK	707.5	50	0	10.105	/	Pass
	16QAM	707.5	50	0	10.088	/	Pass
	64QAM	707.5	50	0	10.102	/	Pass
	256QAM	707.5	50	0	10.177	/	Pass

3.2 Test Graph

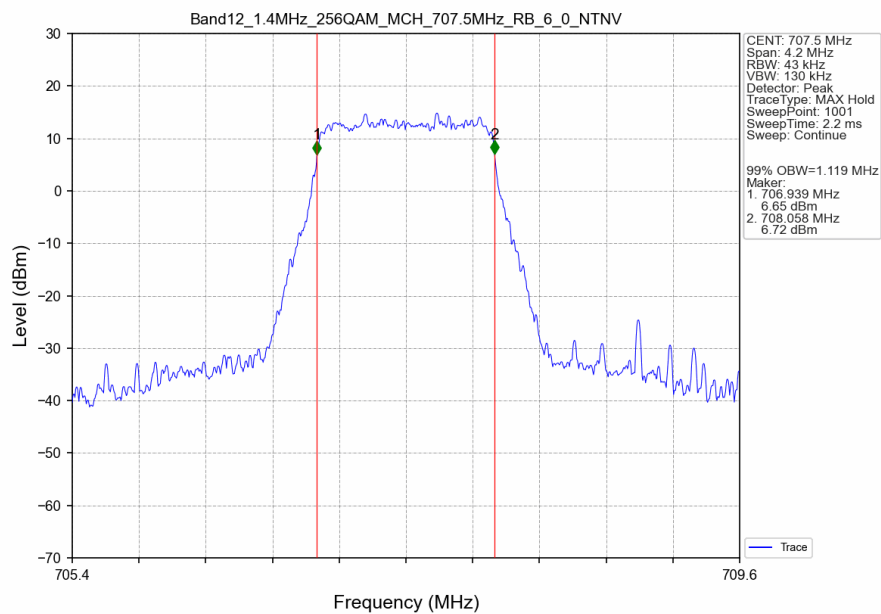
3.2.1 Band12_OBW



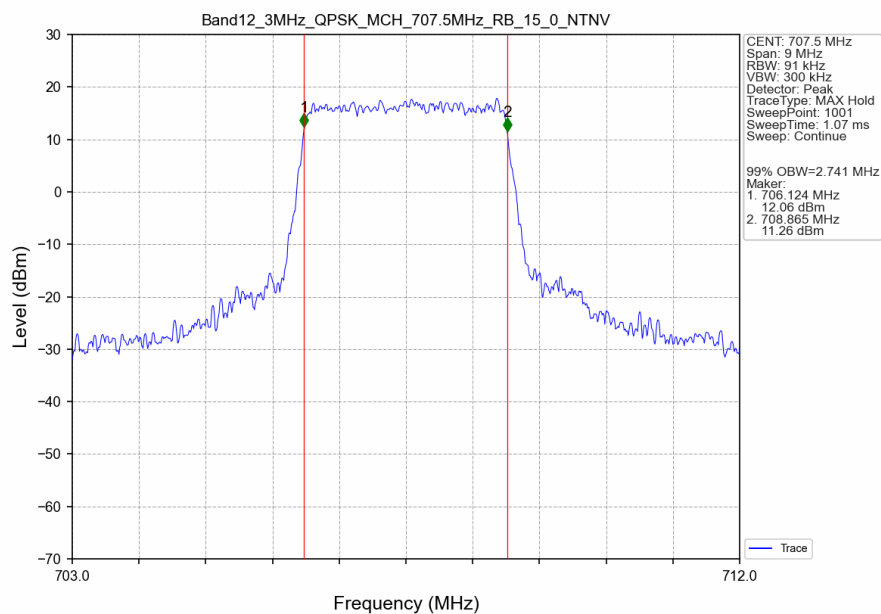
Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



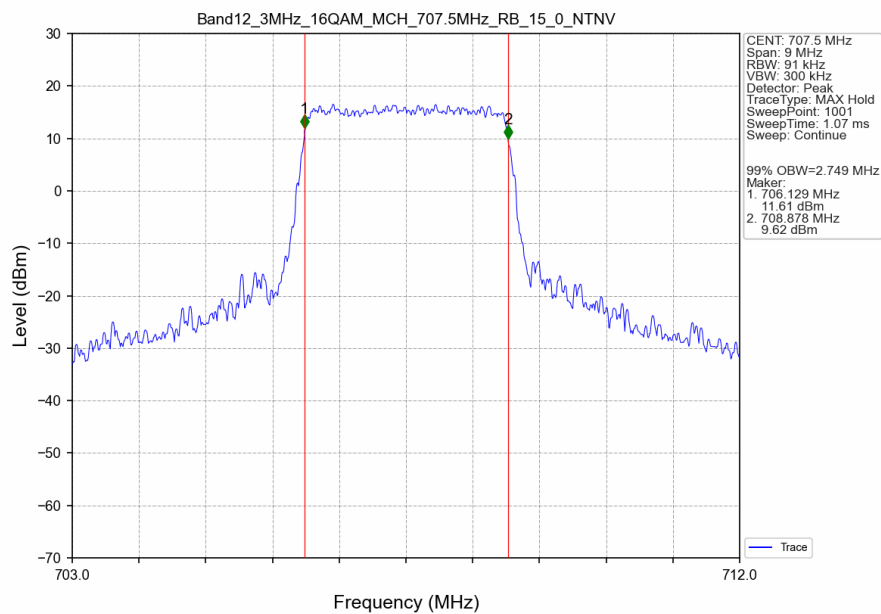
Band12_1.4MHz_256QAM_MCH_707.5MHz_RB_6_0_NTNV



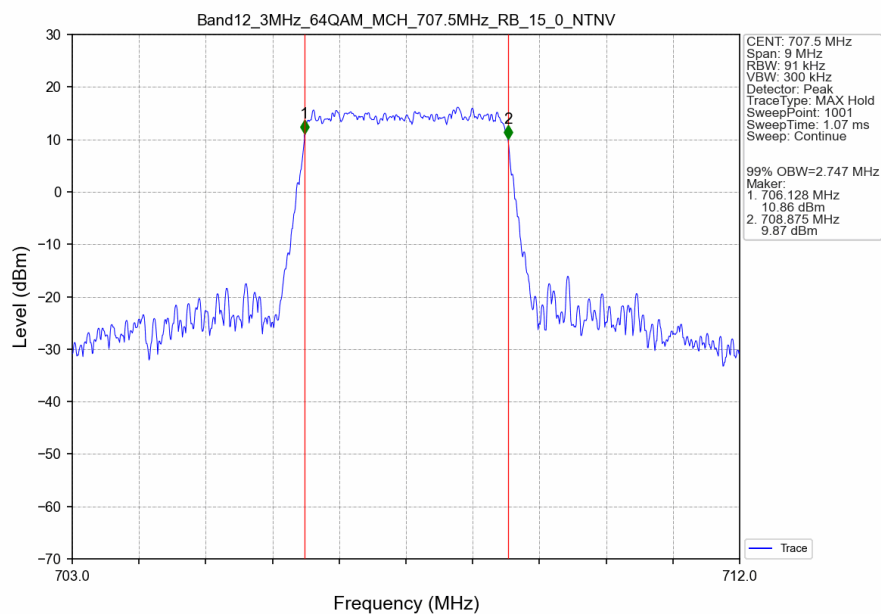
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



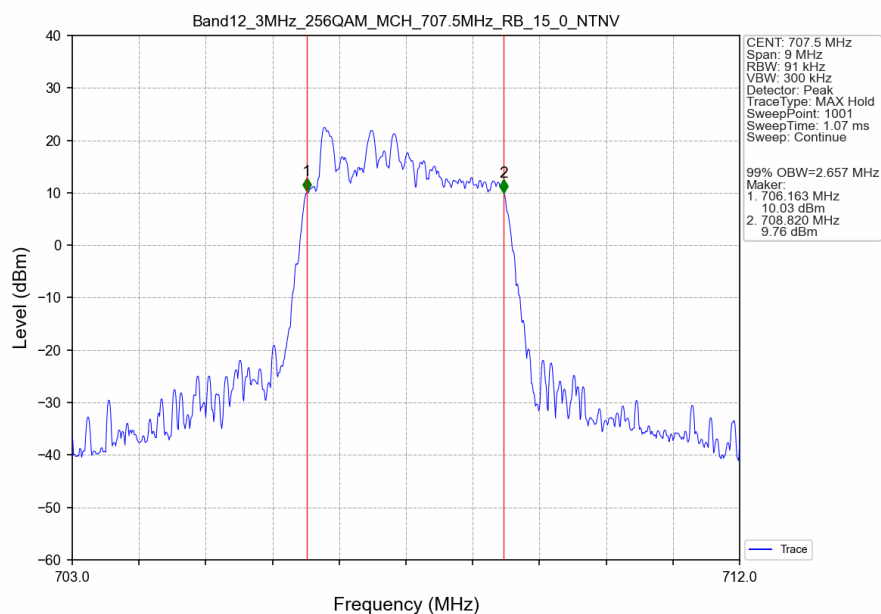
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



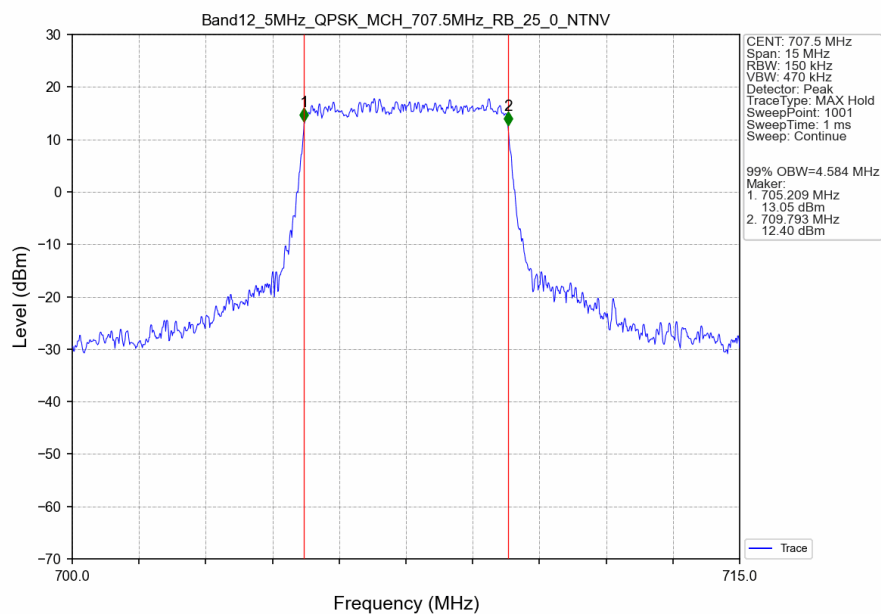
Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



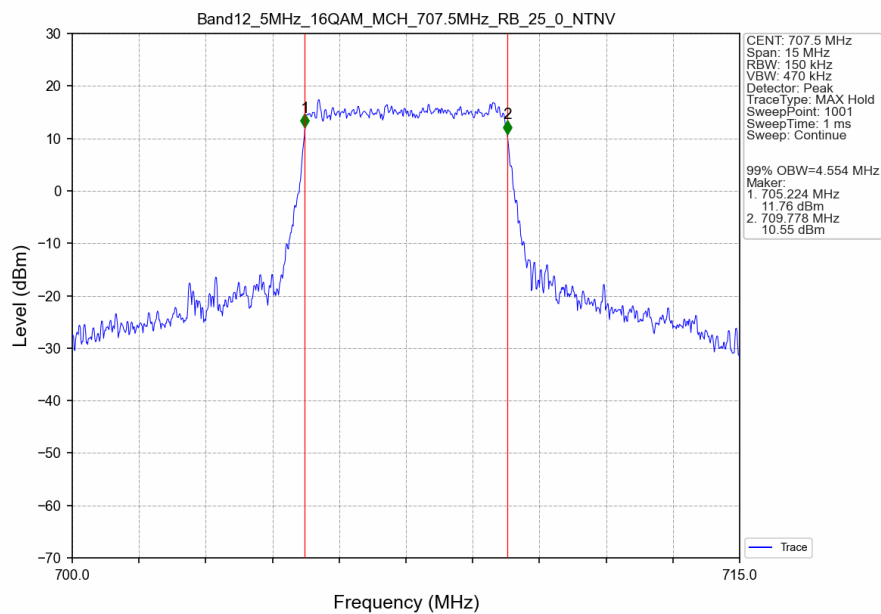
Band12_3MHz_256QAM_MCH_707.5MHz_RB_15_0_NTNV



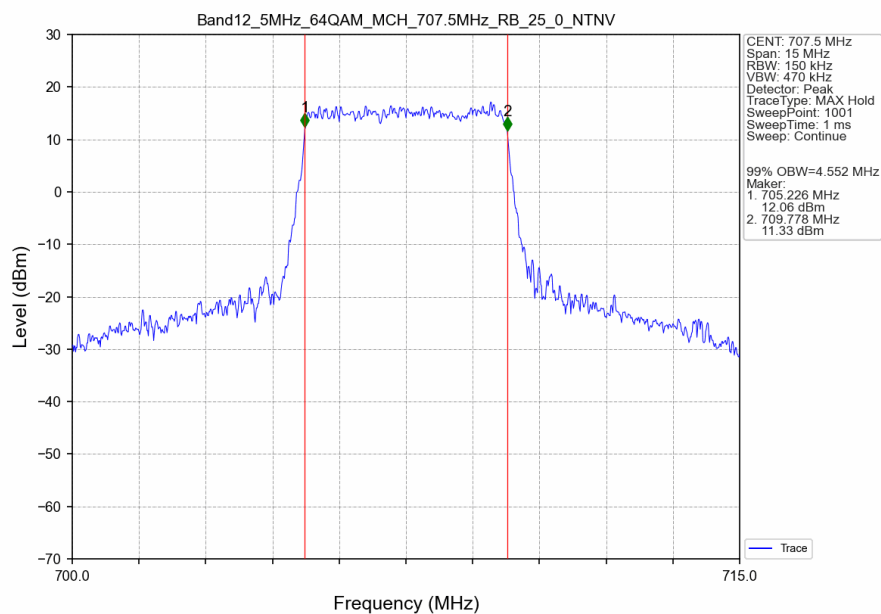
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



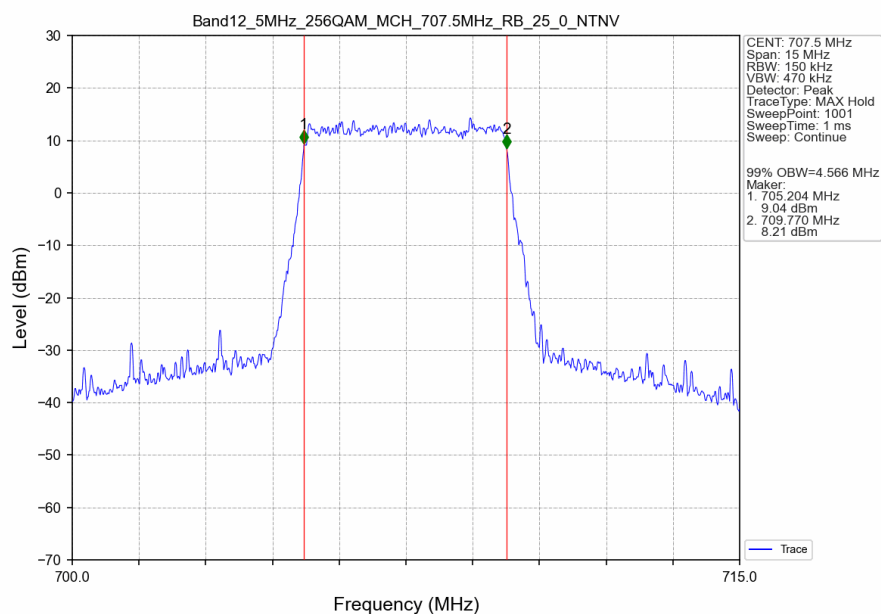
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



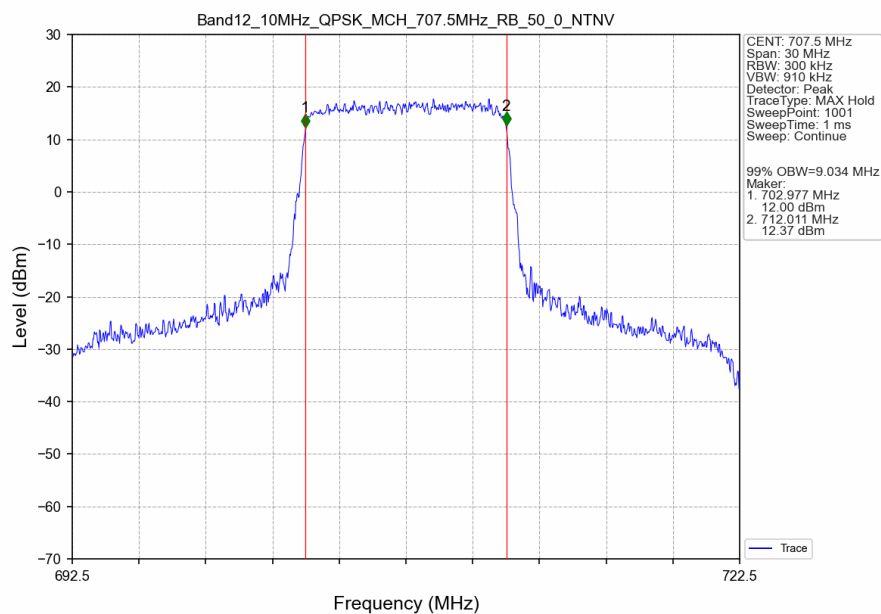
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



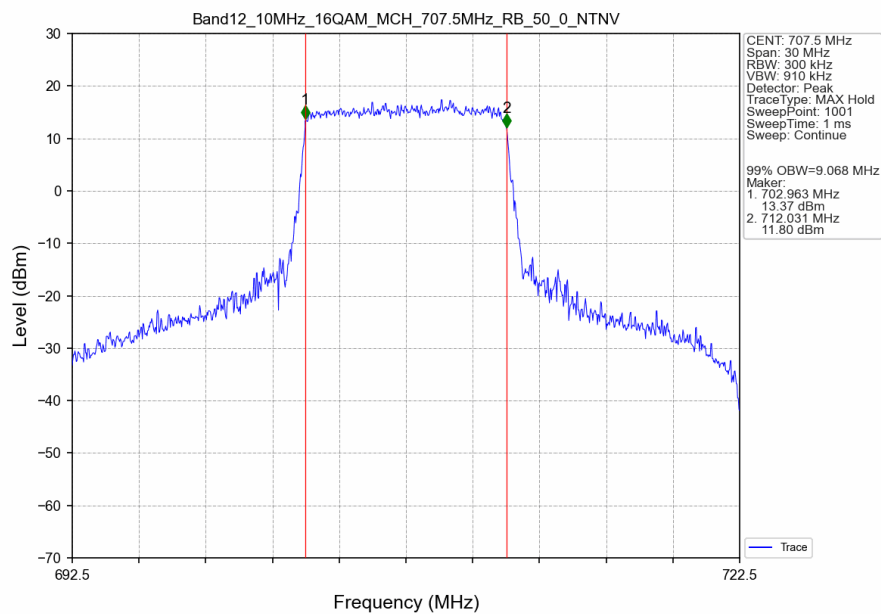
Band12_5MHz_256QAM_MCH_707.5MHz_RB_25_0_NTNV



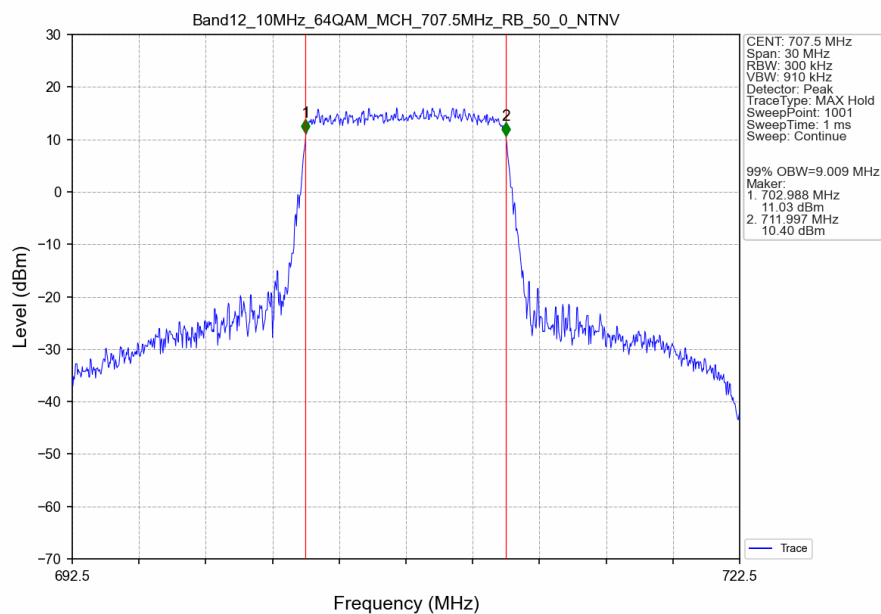
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



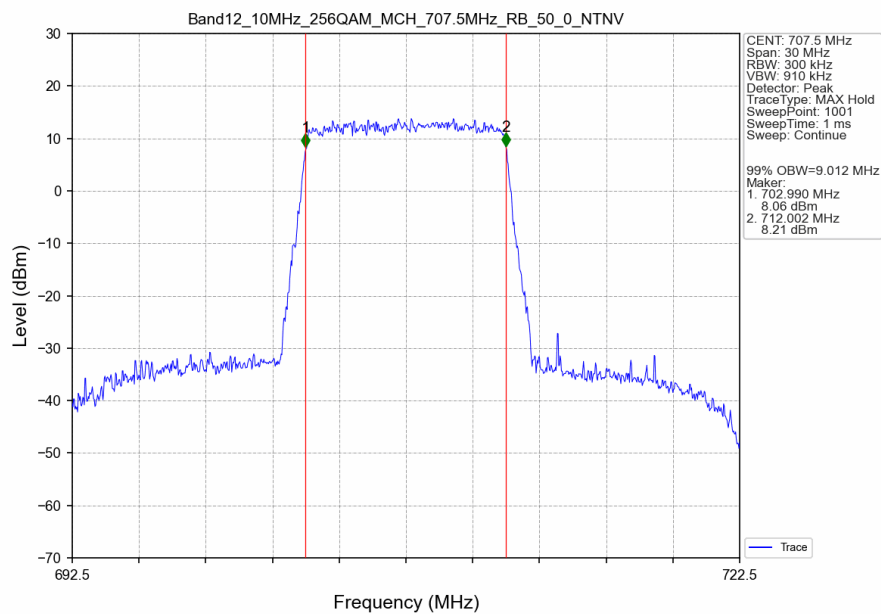
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



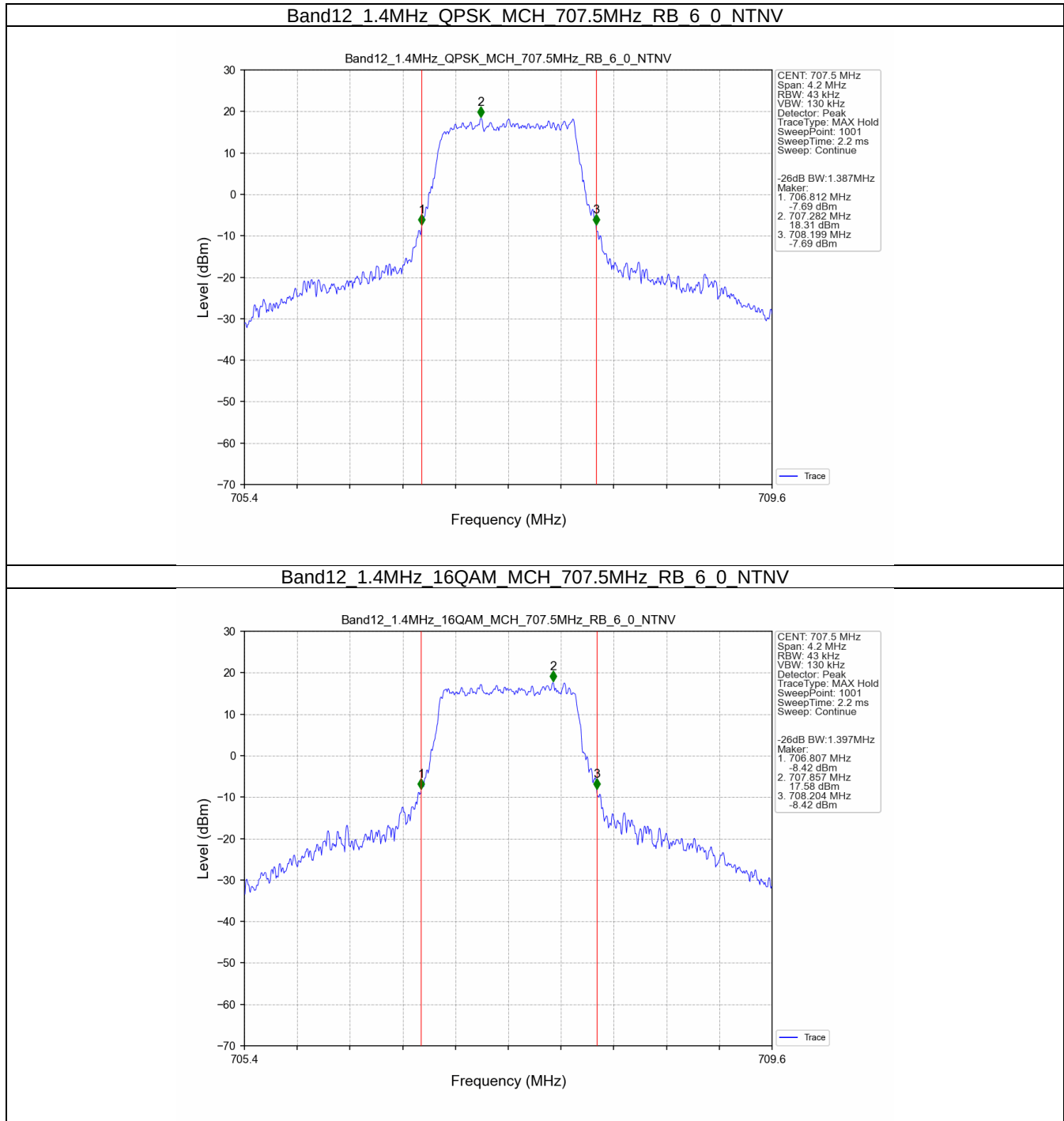
Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



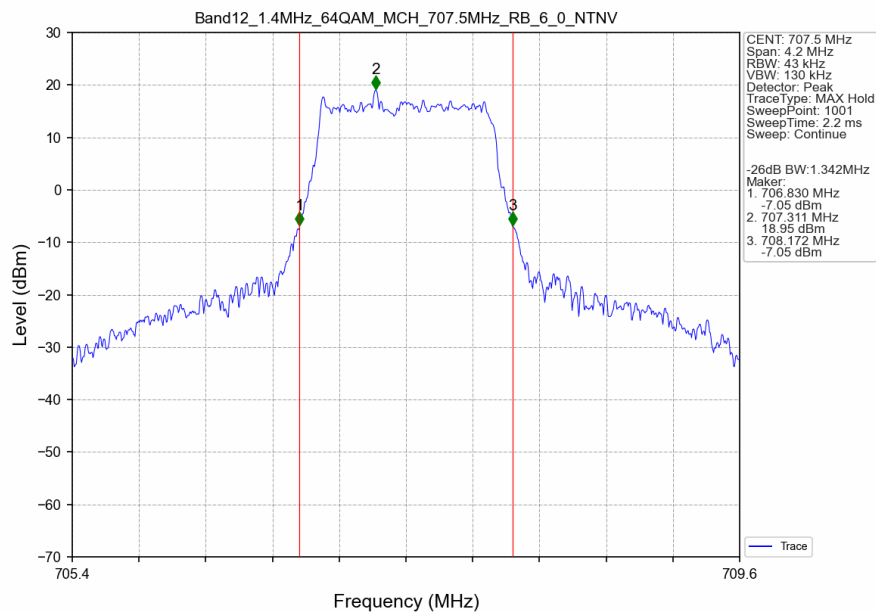
Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV



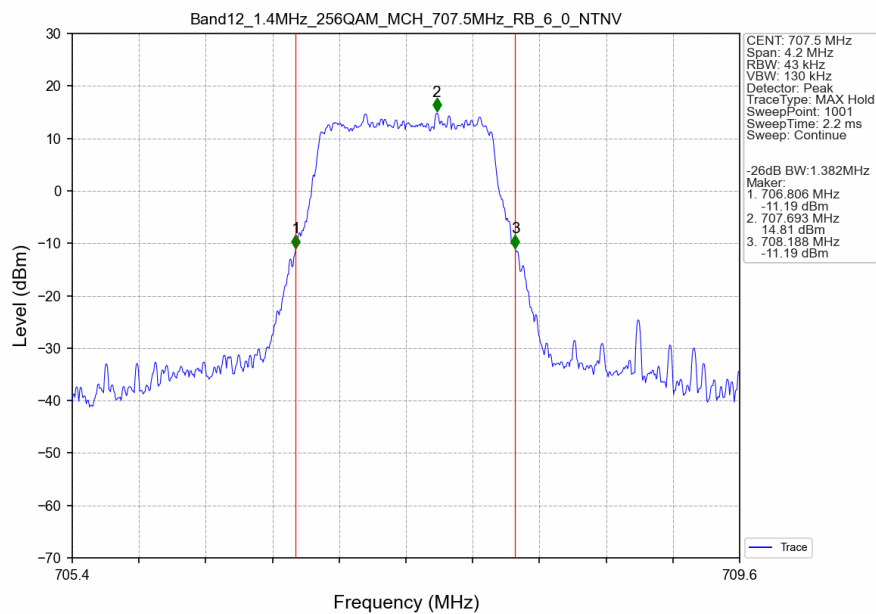
3.2.2 Band12_XDB



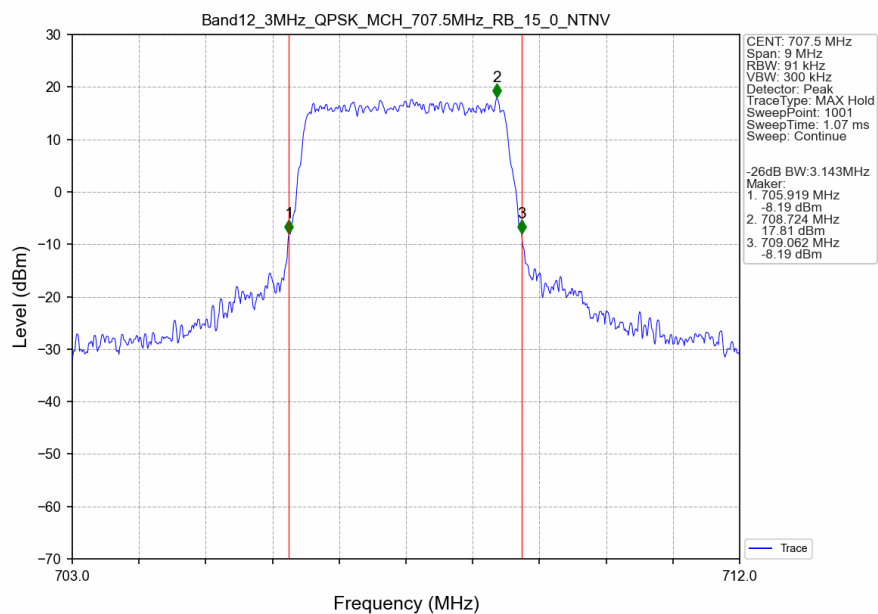
Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



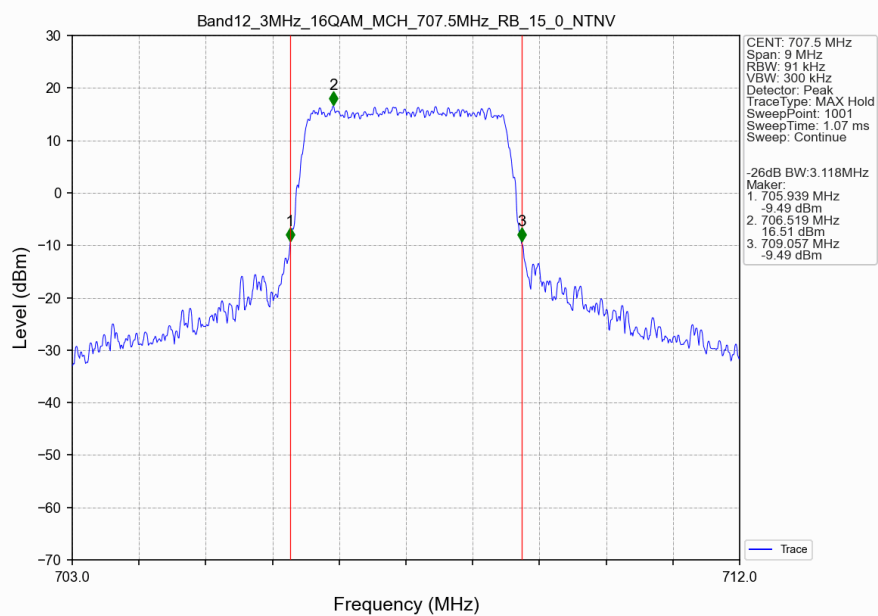
Band12_1.4MHz_256QAM_MCH_707.5MHz_RB_6_0_NTNV



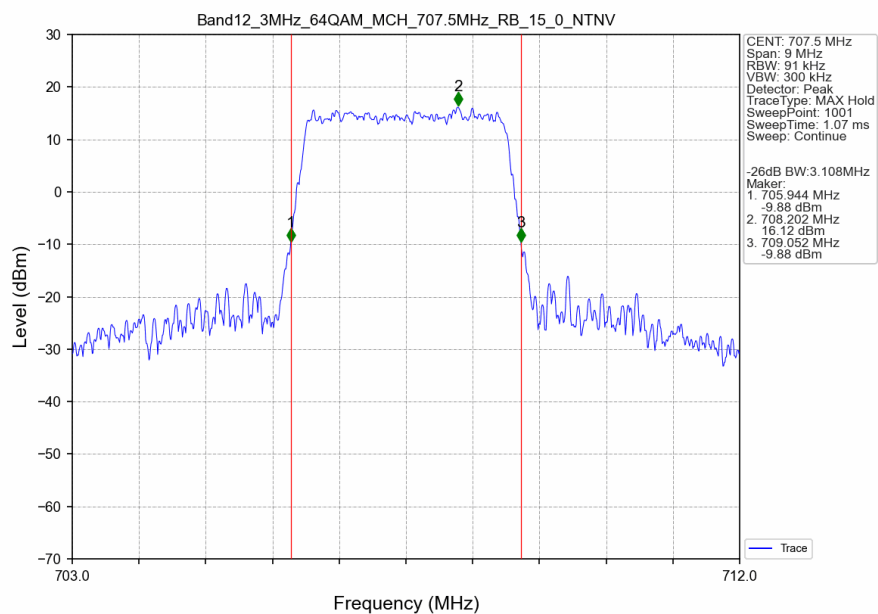
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



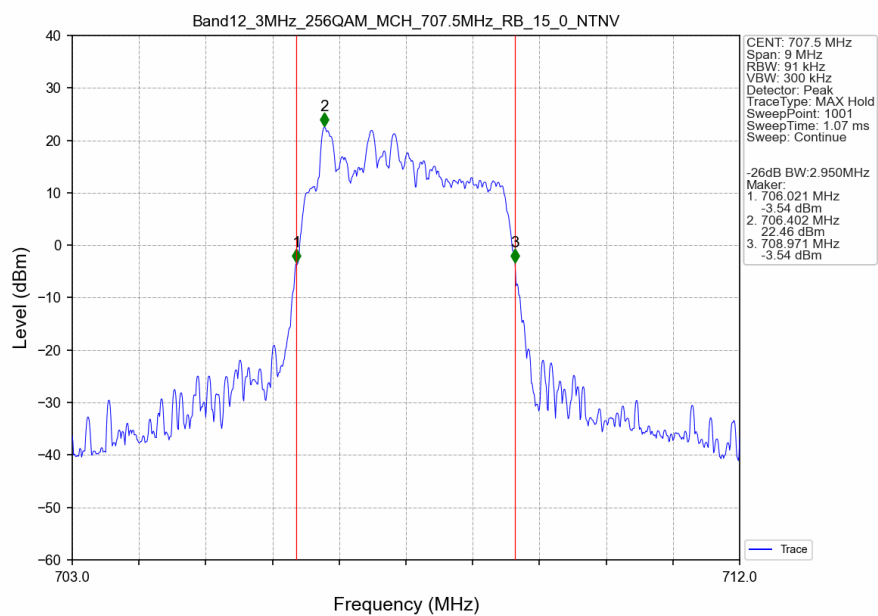
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



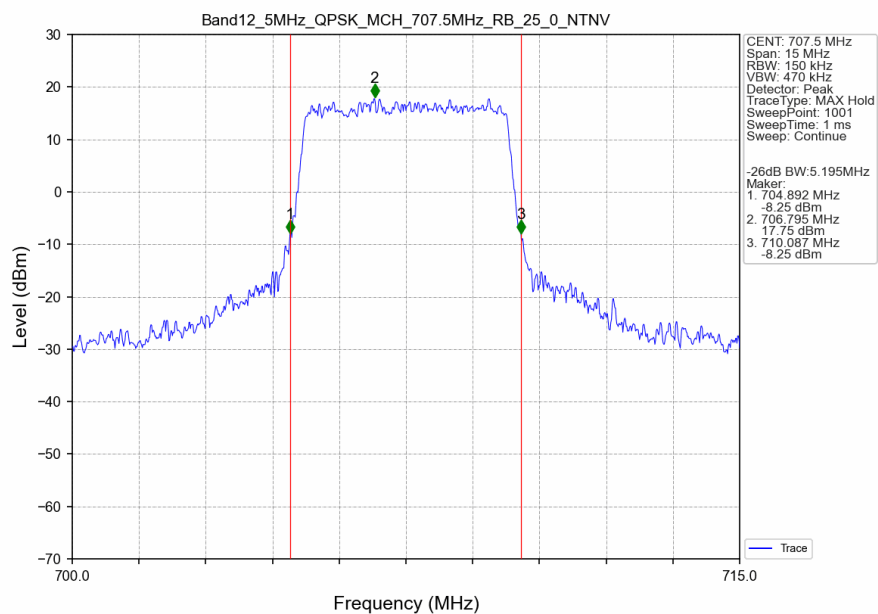
Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



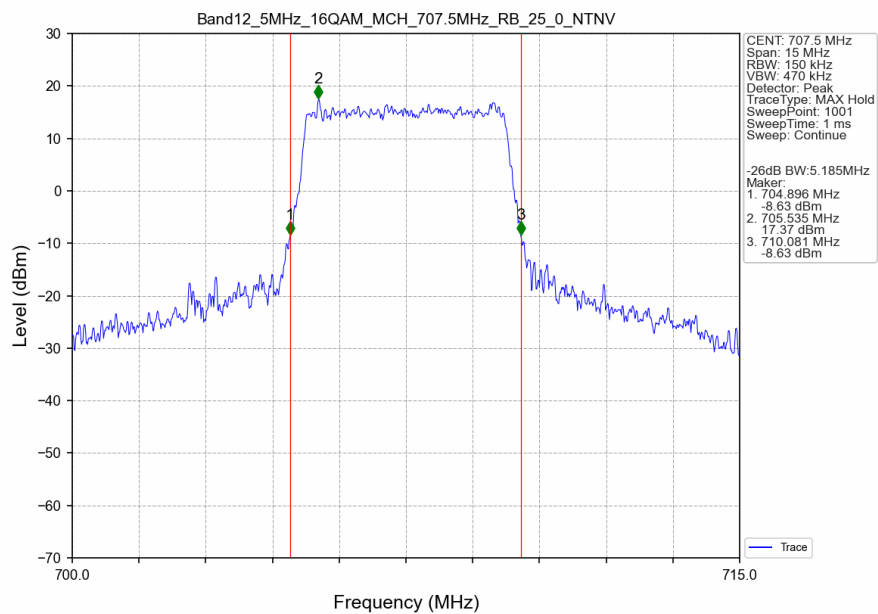
Band12_3MHz_256QAM_MCH_707.5MHz_RB_15_0_NTNV



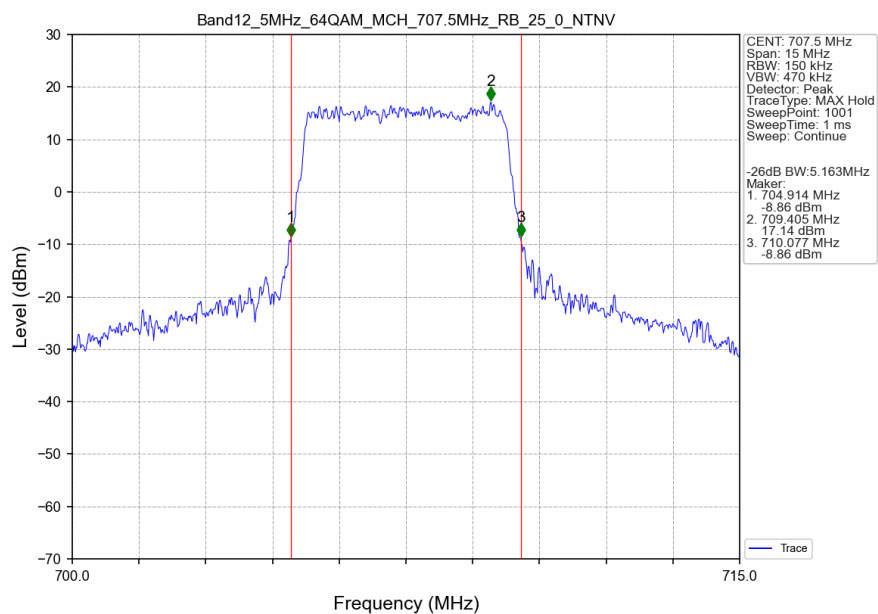
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



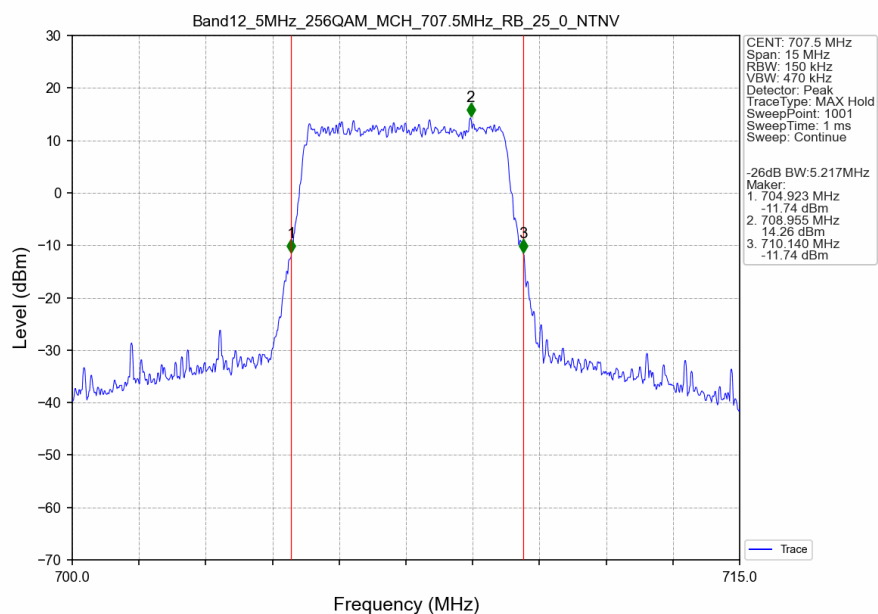
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



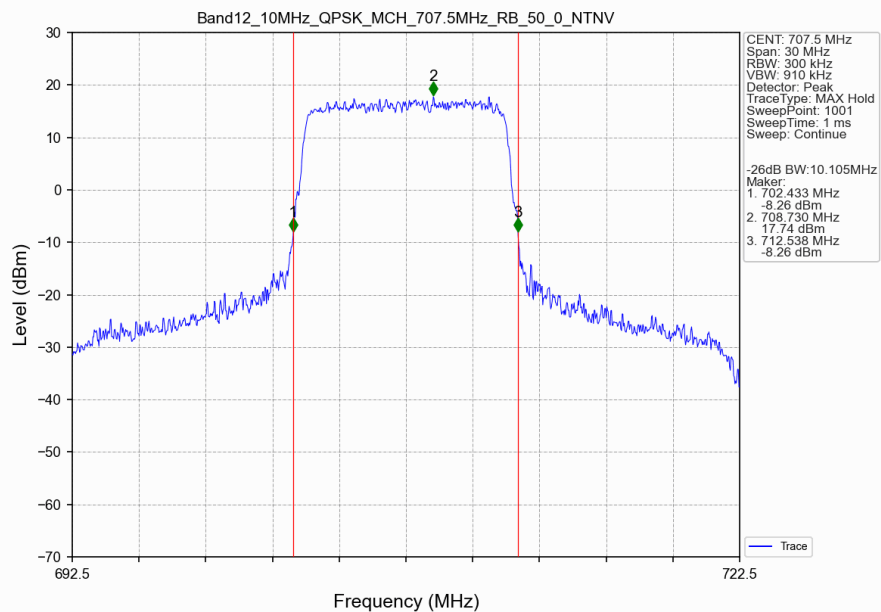
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



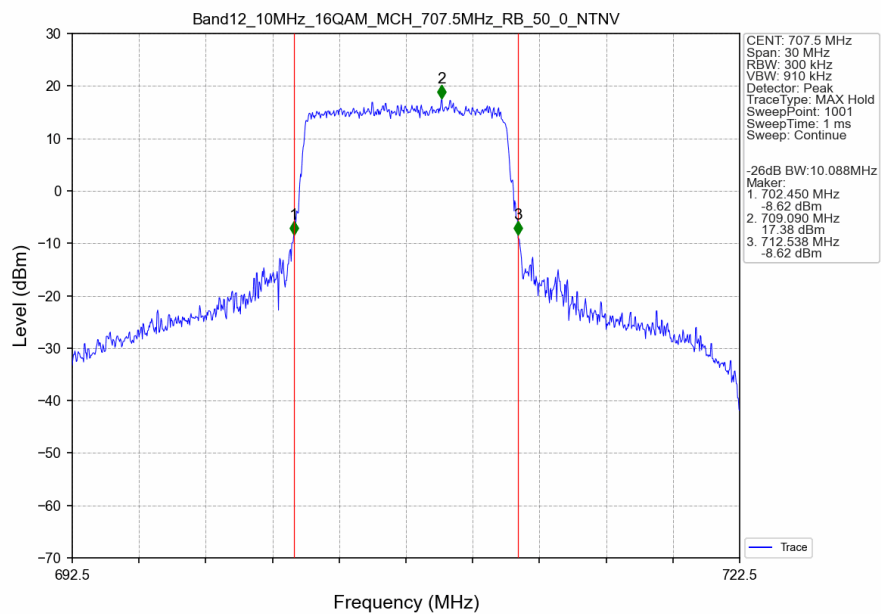
Band12_5MHz_256QAM_MCH_707.5MHz_RB_25_0_NTNV



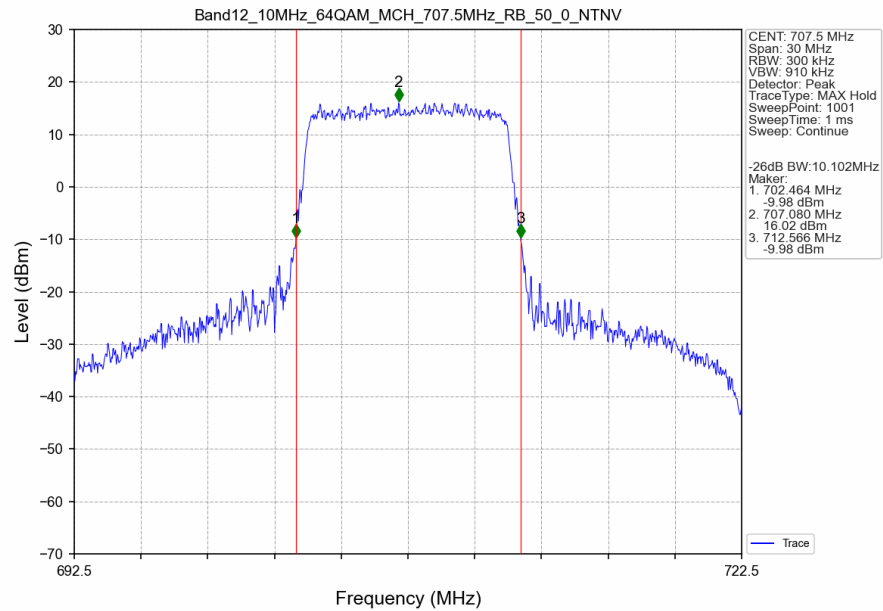
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



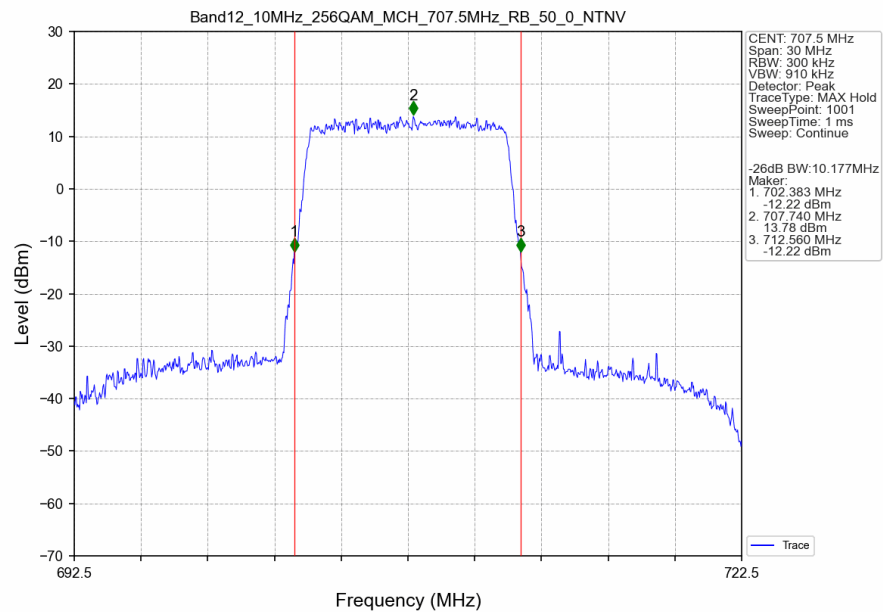
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV





4. Peak-Average Ratio

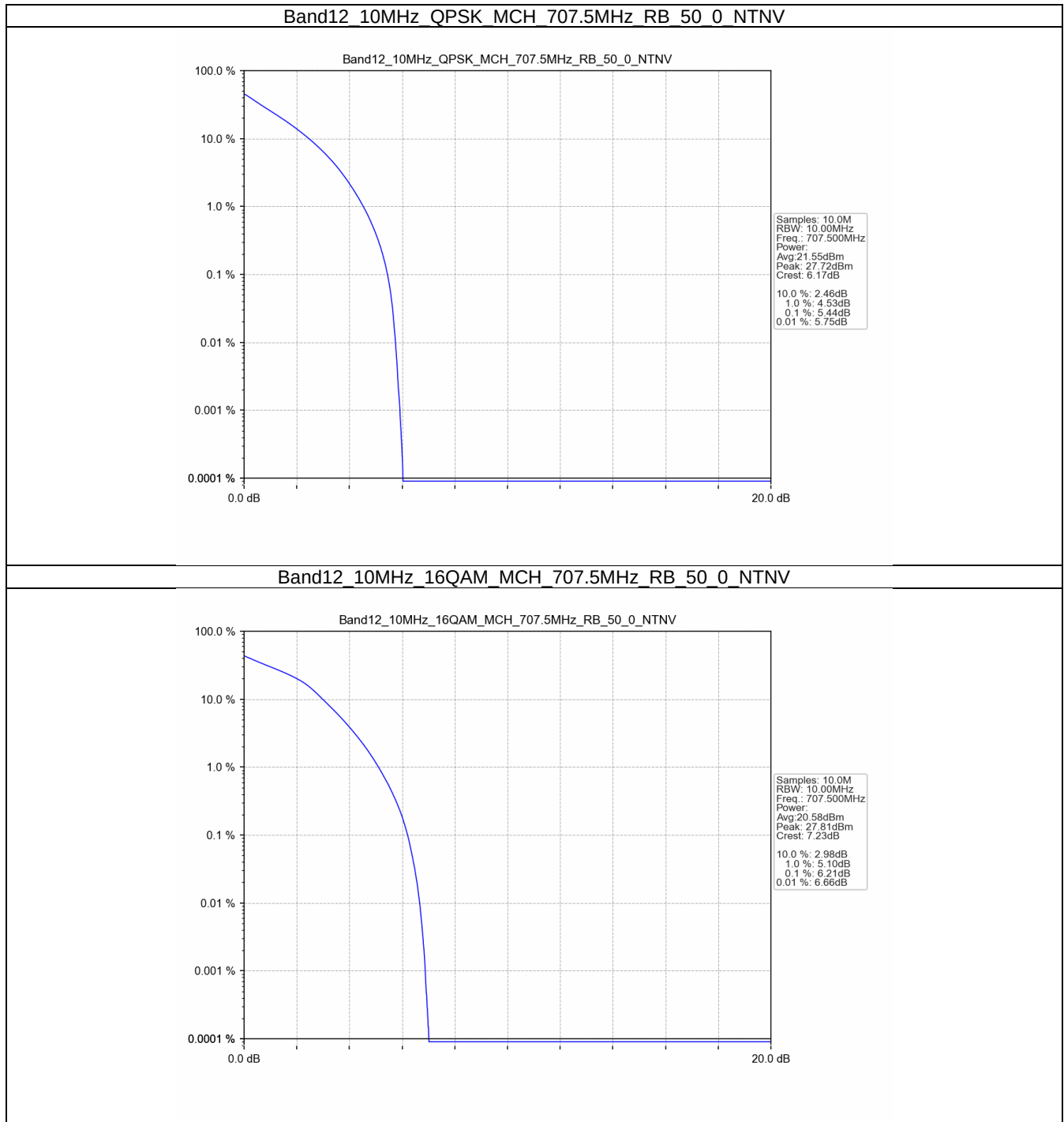
4.1 Test Result

4.1.1 B12_10MHz

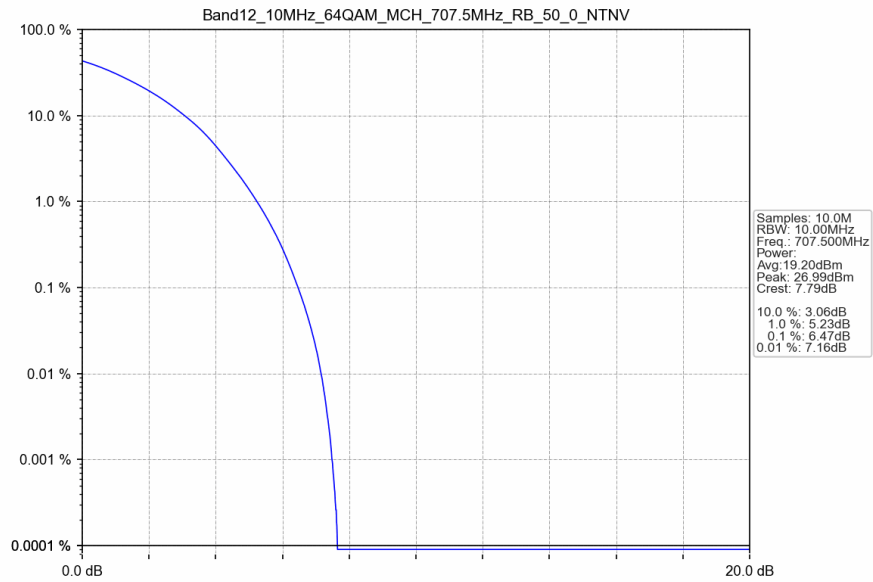
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	5.44	<=13	Pass
16QAM	707.5	50	0	6.21	<=13	Pass
64QAM	707.5	50	0	6.47	<=13	Pass
256QAM	707.5	50	0	6.66	<=13	Pass

4.2 Test Graph

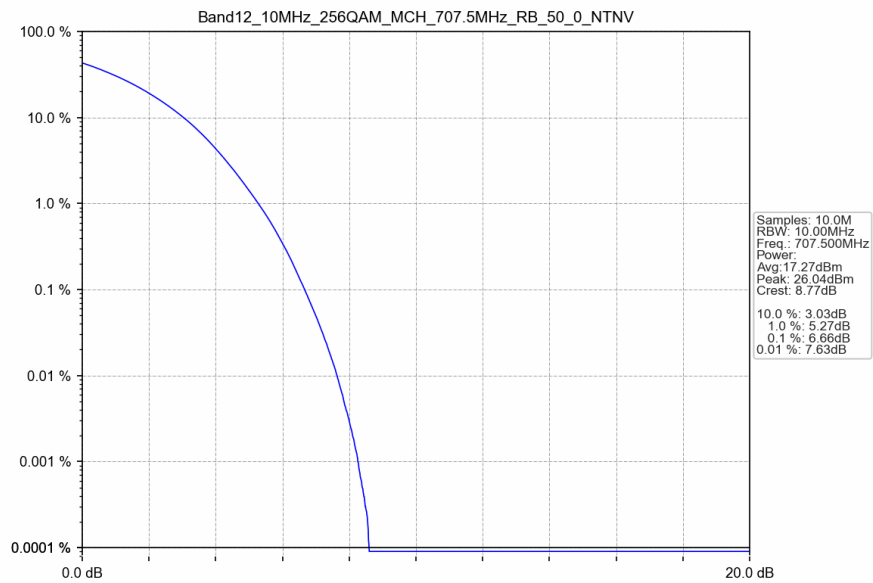
4.2.1 B12_10MHz



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTV						
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 B12_3MHz

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

5.1.3 B12_5MHz

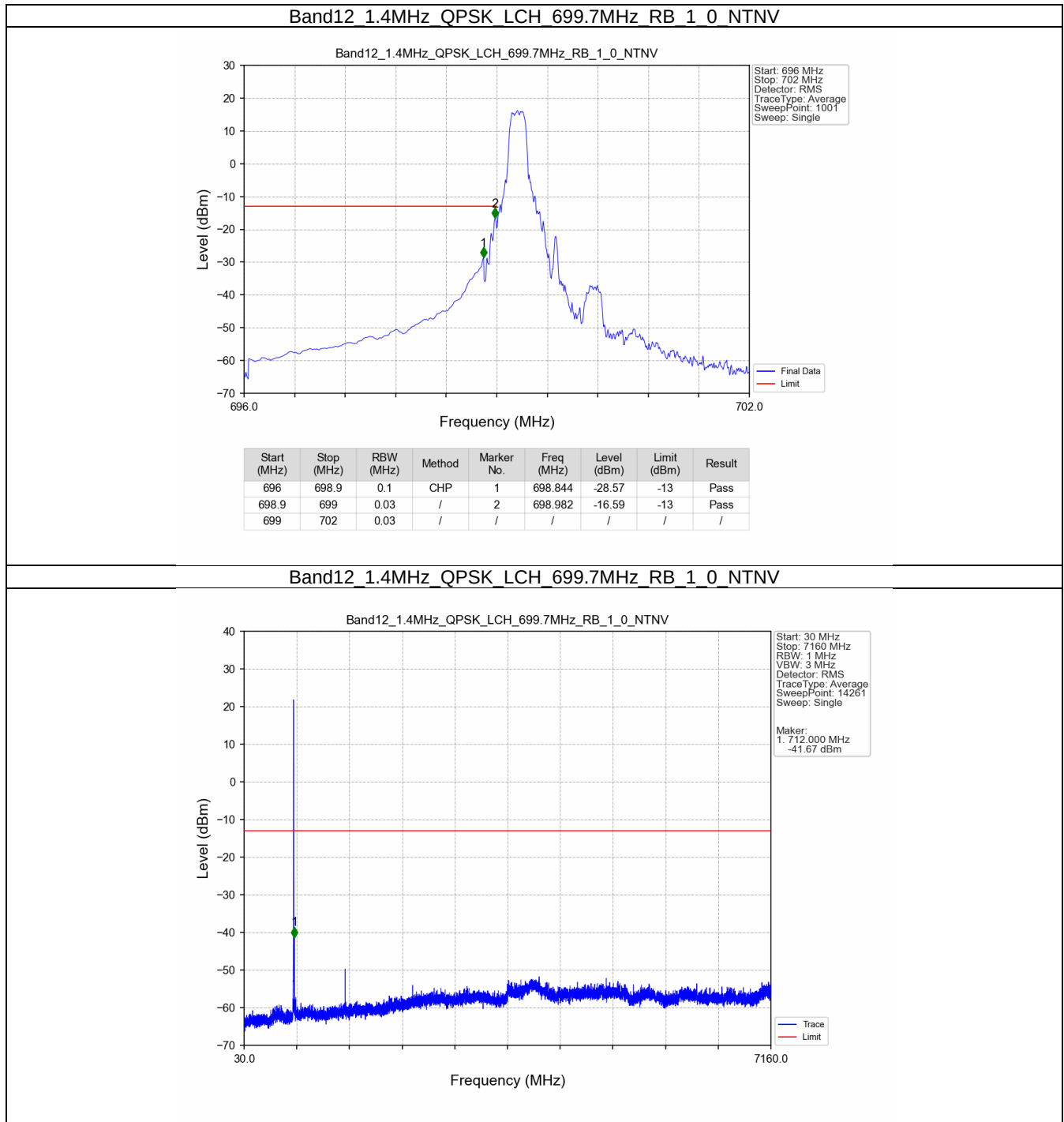
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.4 B12_10MHz

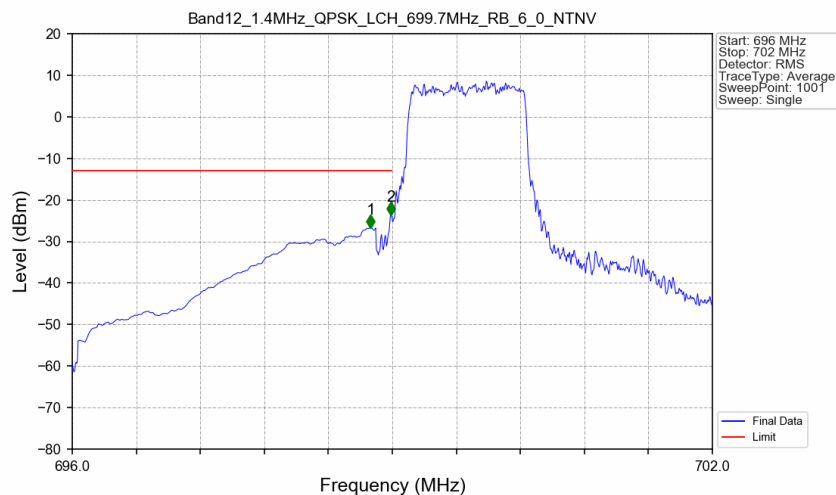
Band: 12 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

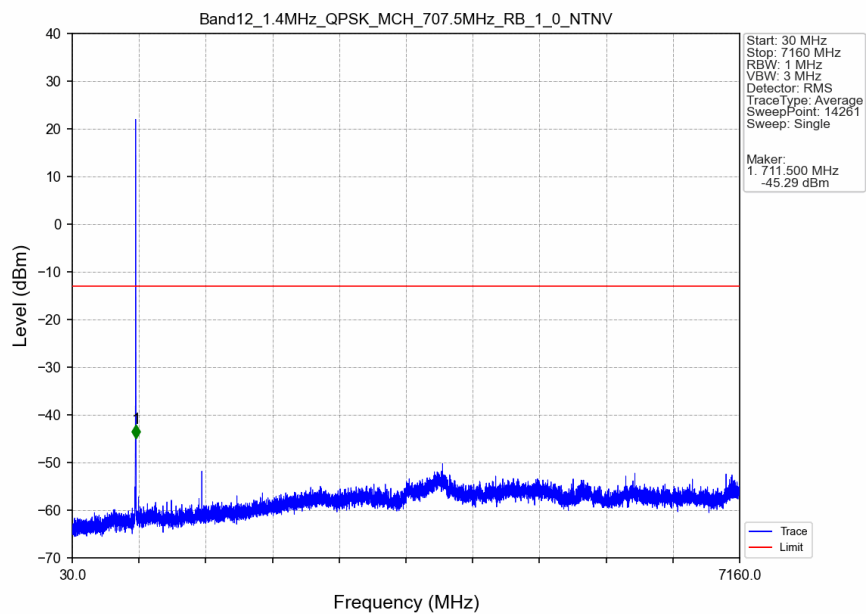
5.2.1 B12_1.4MHz



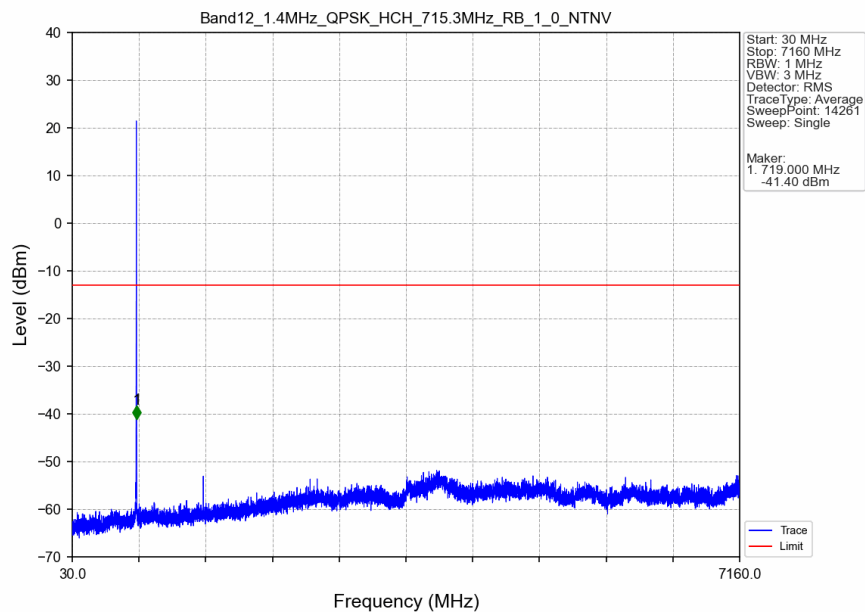
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



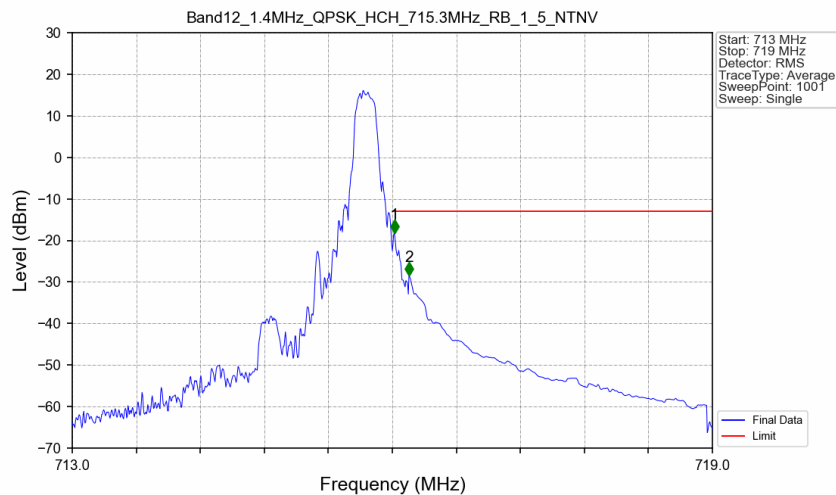
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

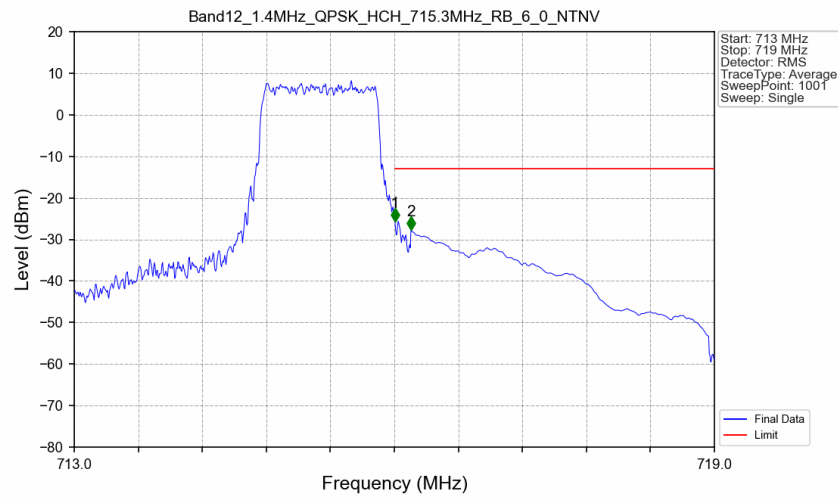


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.018	-18.20	-13	Pass
716.1	719	0.1	CHP	2	716.156	-28.34	-13	Pass

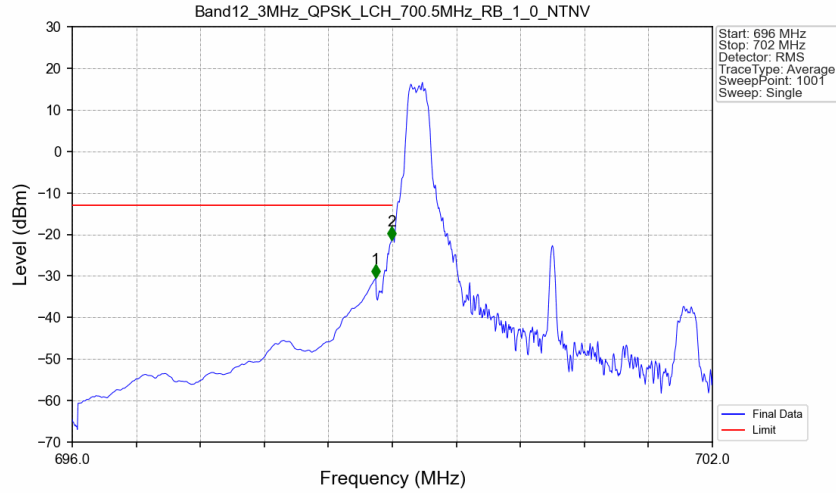
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTV



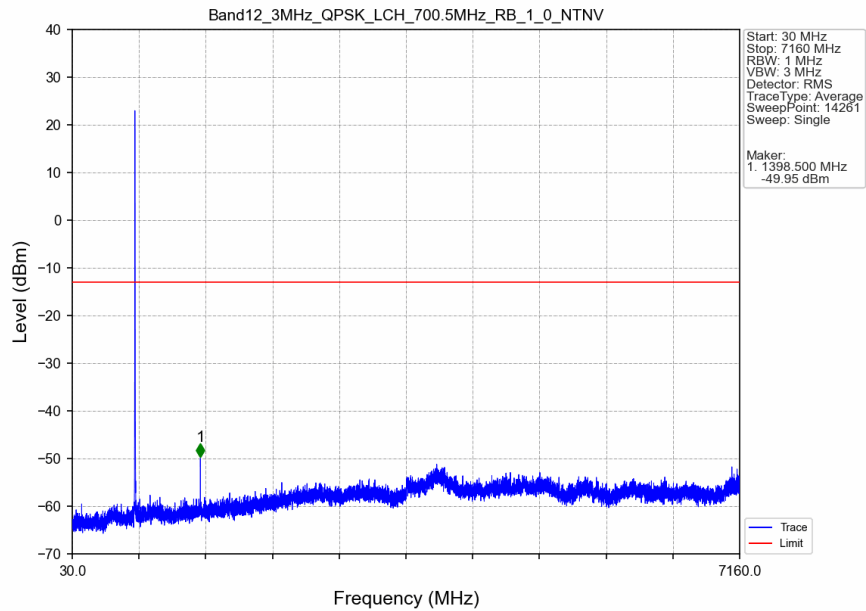
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-25.61	-13	Pass
716.1	719	0.1	CHP	2	716.156	-27.61	-13	Pass

5.2.2 B12_3MHz

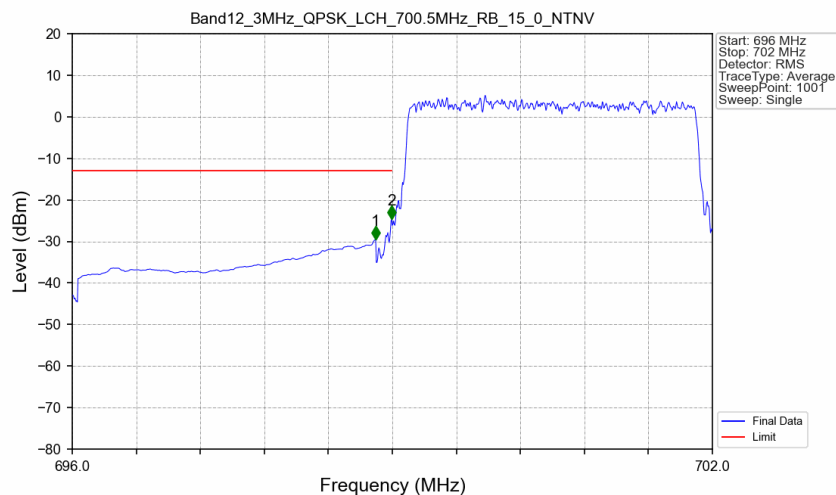
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



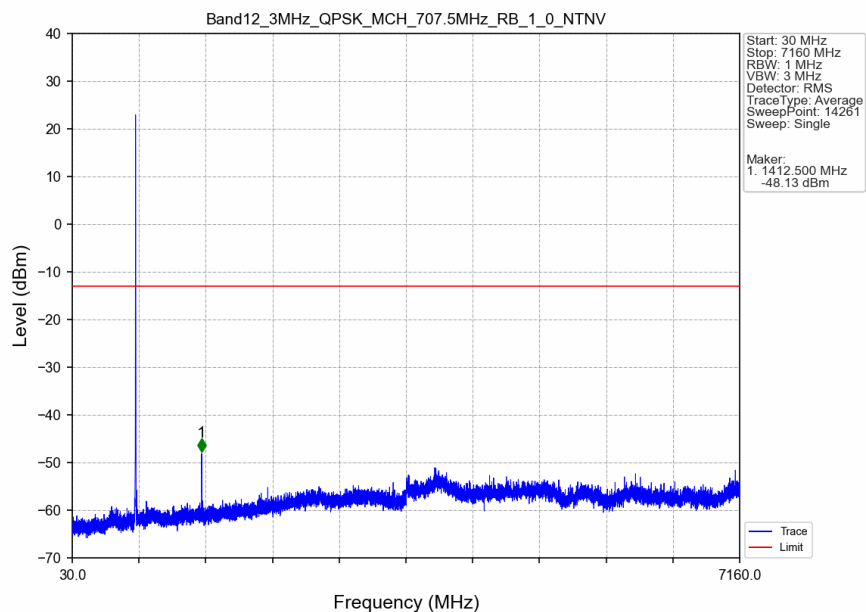
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



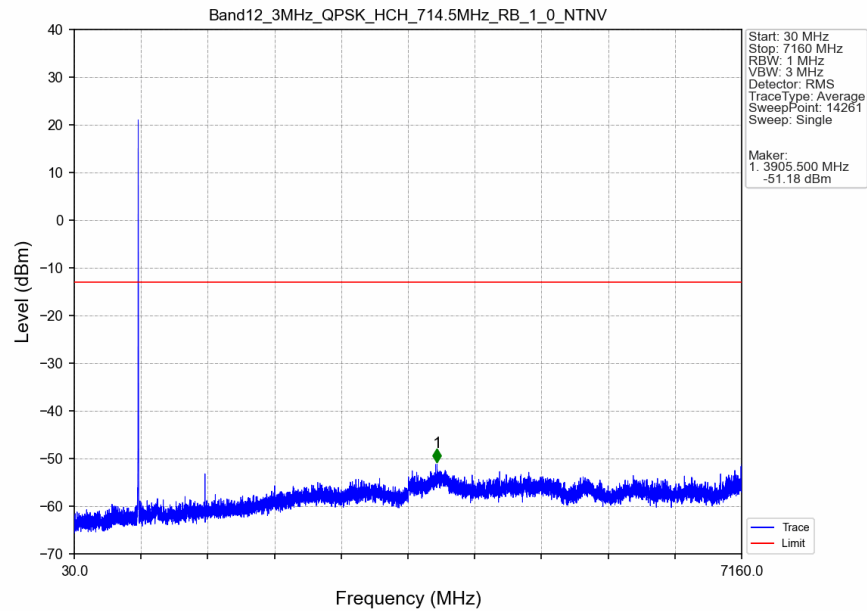
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



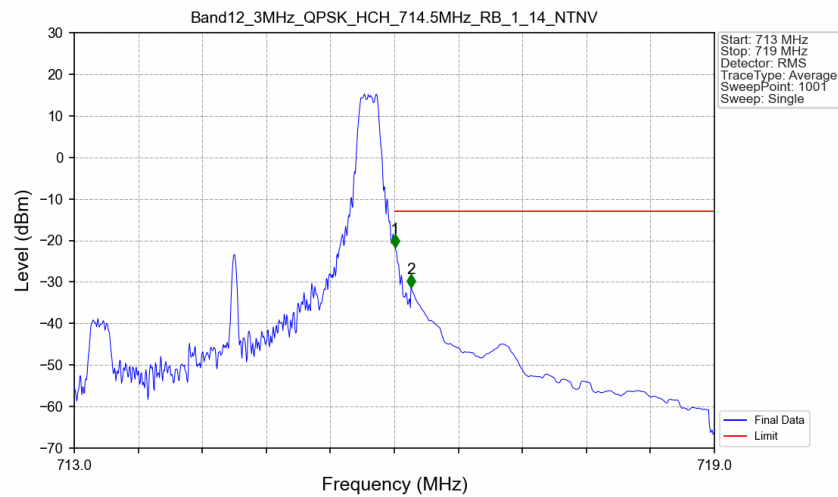
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

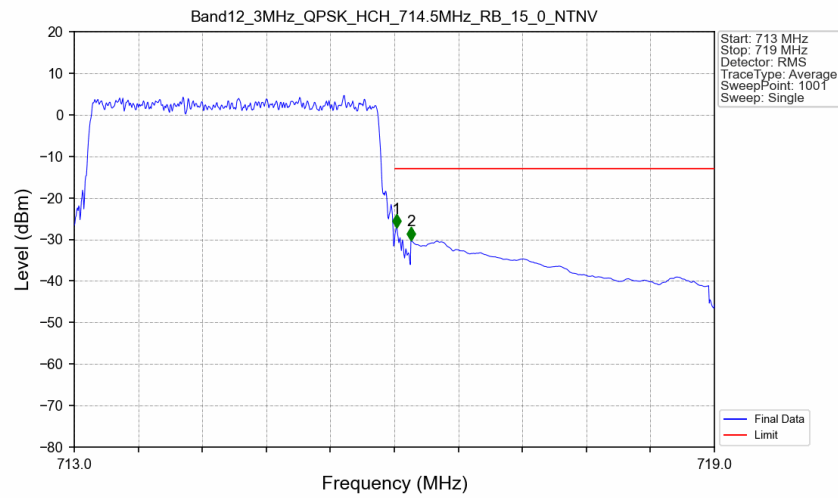


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



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	716.006	-21.70	-13	Pass
716.1	719	0.1	CHP	2	716.156	-31.32	-13	Pass

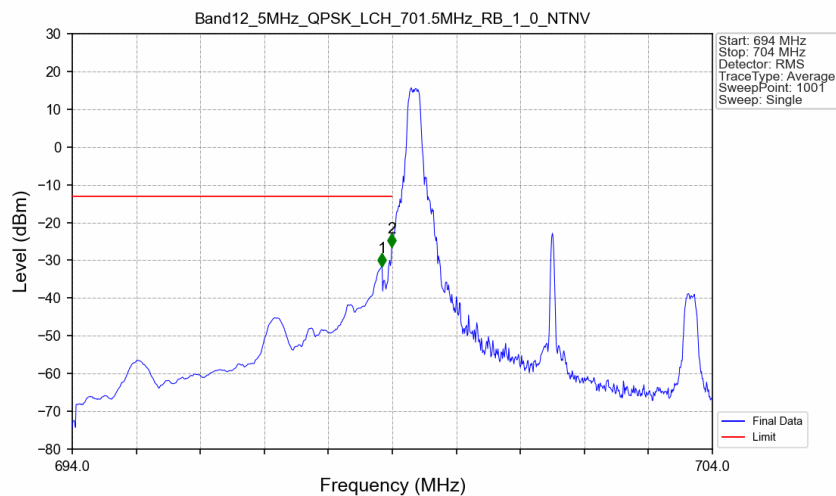
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



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	716.018	-27.06	-13	Pass
716.1	719	0.1	CHP	2	716.156	-30.13	-13	Pass

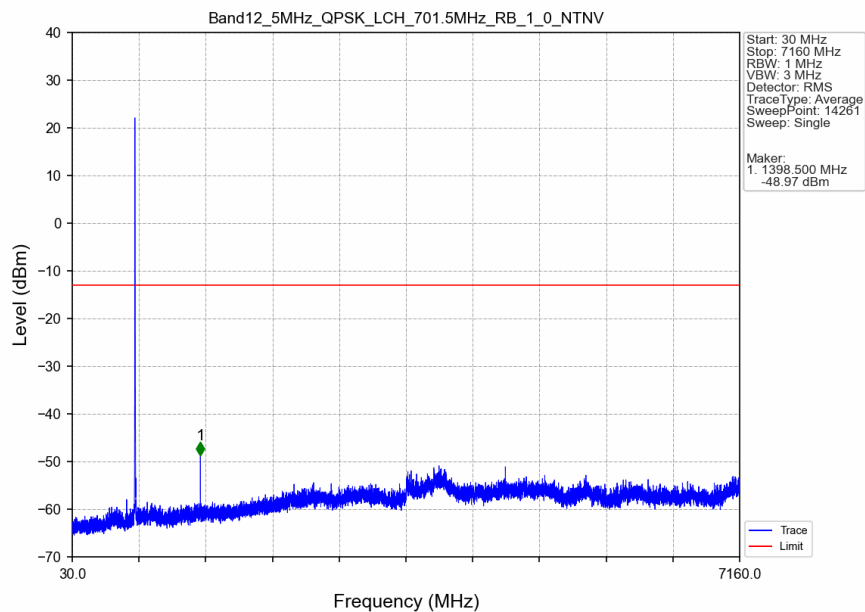
5.2.3 B12_5MHz

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

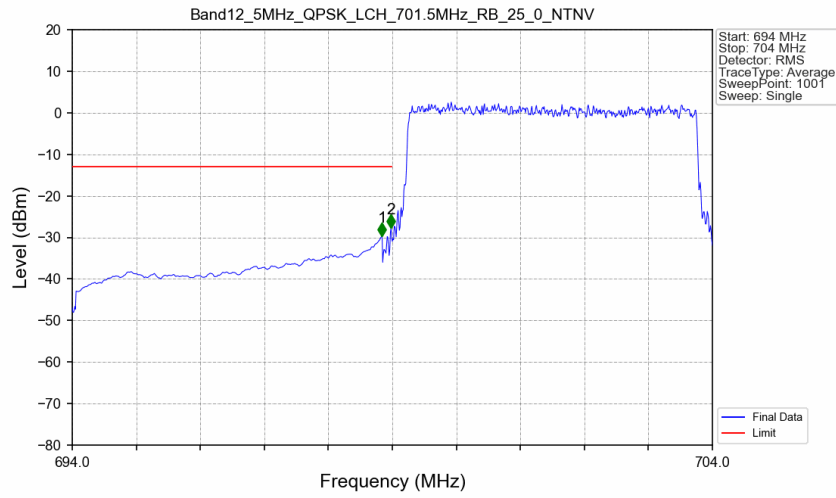


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-31.66	-13	Pass
698.9	699	0.03	/	2	698.990	-26.47	-13	Pass
699	704	0.03	/	/	/	/	/	/

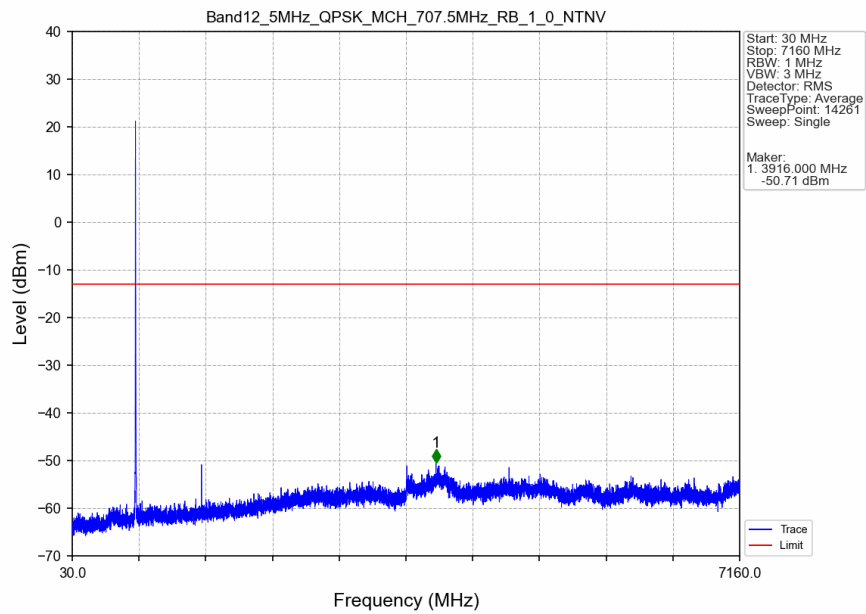
Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



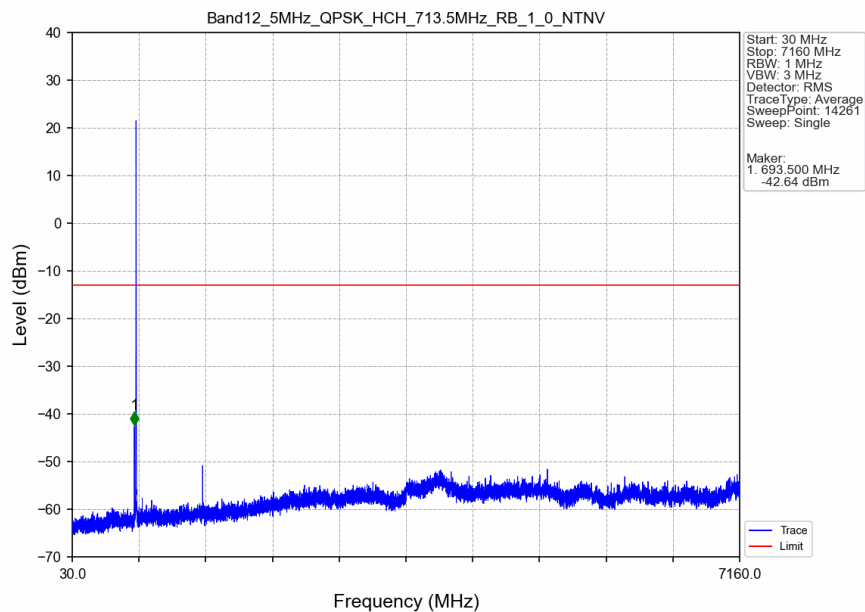
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



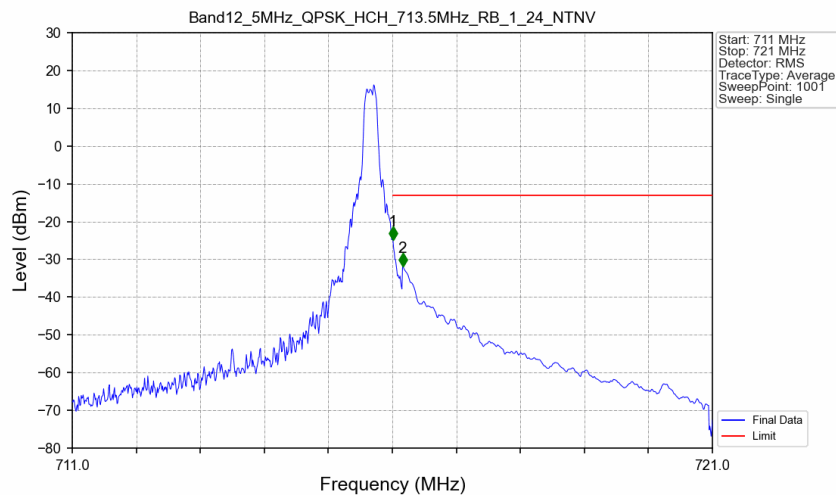
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

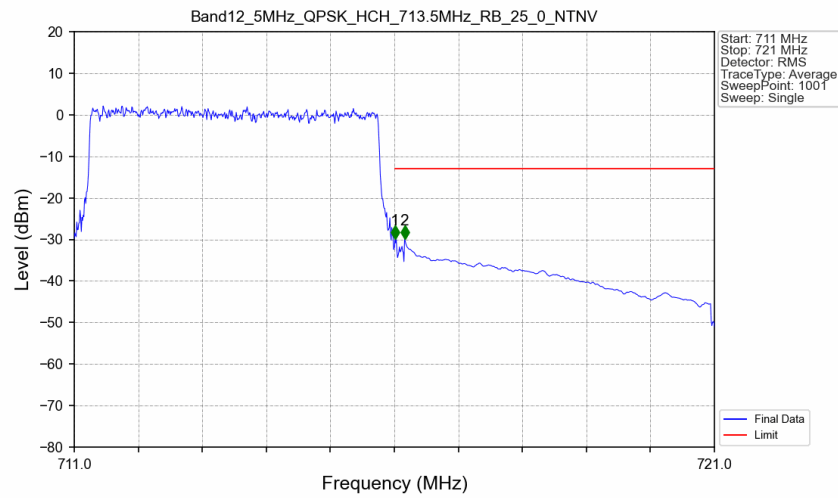


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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	716.010	-24.86	-13	Pass
716.1	721	0.1	CHP	2	716.160	-31.84	-13	Pass

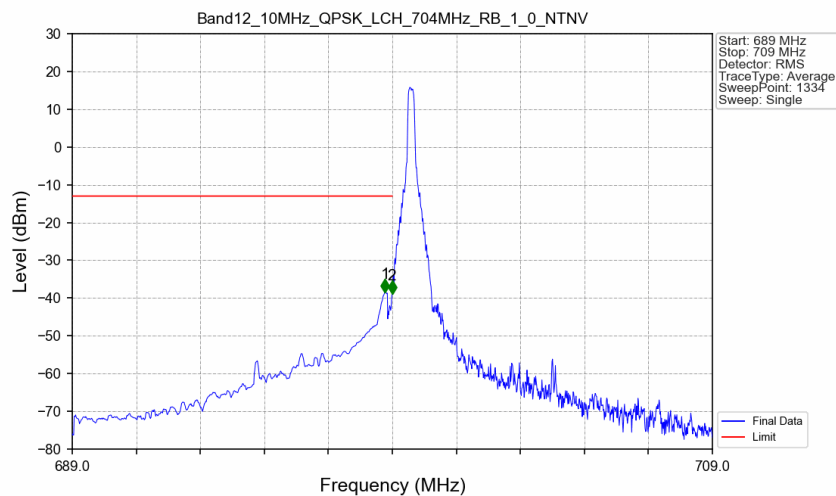
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	716.010	-29.82	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.90	-13	Pass

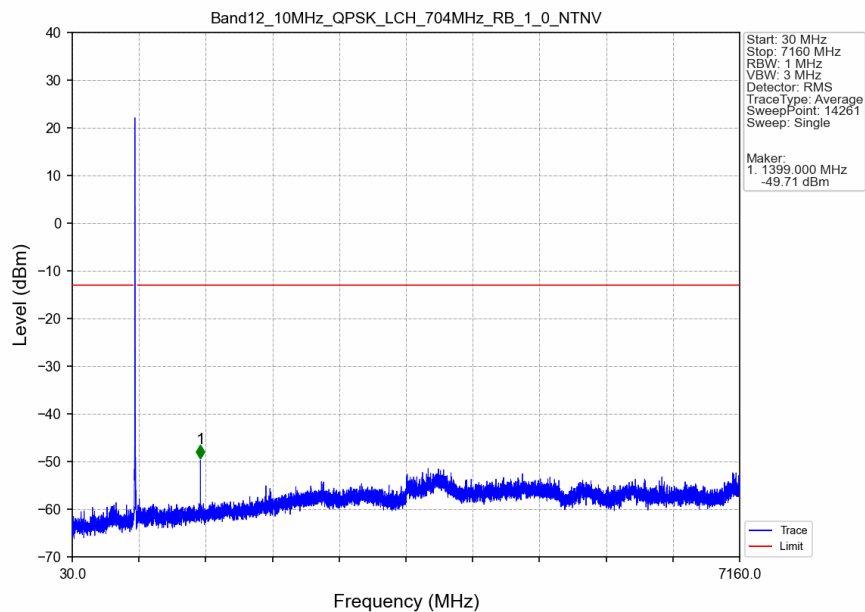
5.2.4 B12_10MHz

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

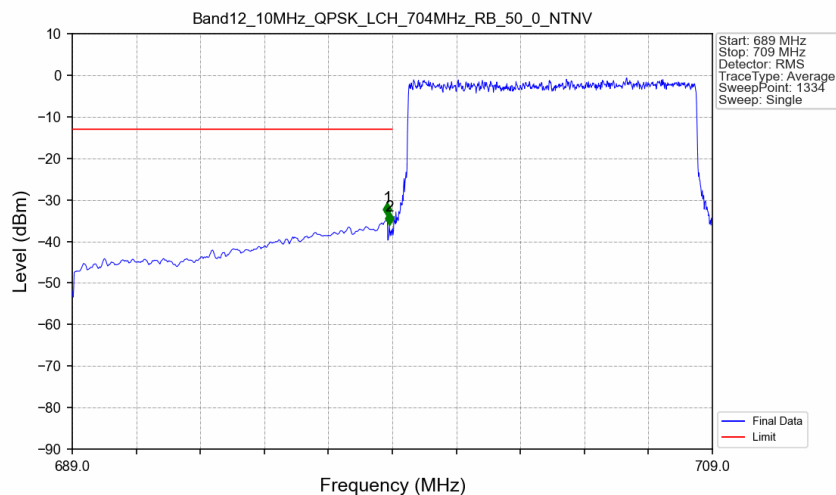


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.767	-38.54	-13	Pass
698.9	699	0.03	/	2	698.992	-38.88	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

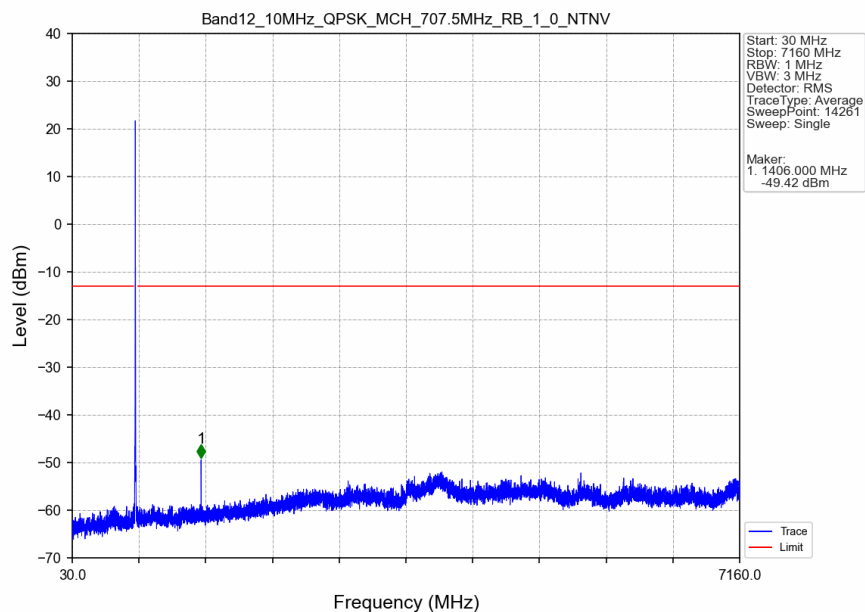


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

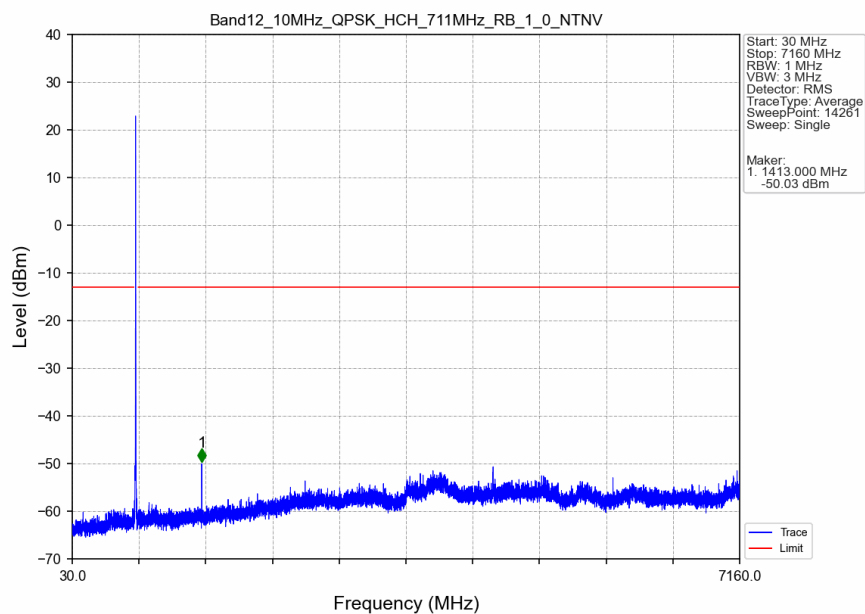


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-33.85	-13	Pass
698.9	699	0.03	/	2	698.902	-36.11	-13	Pass
699	709	0.03	/	/	/	/	/	/

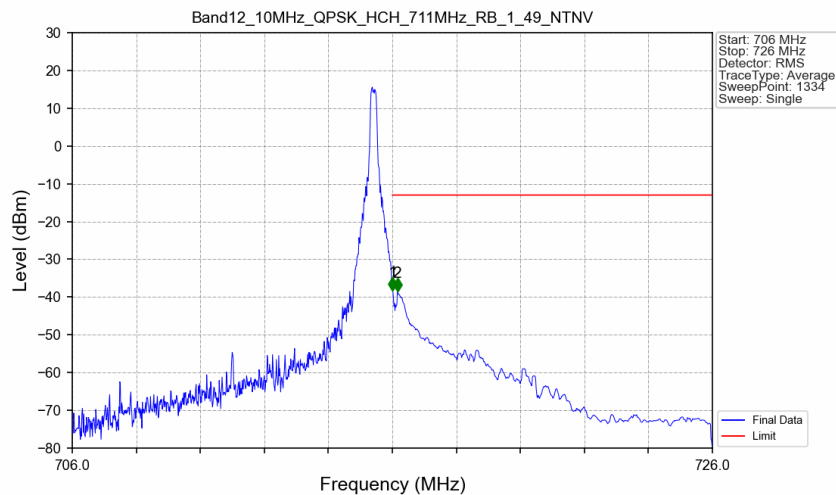
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

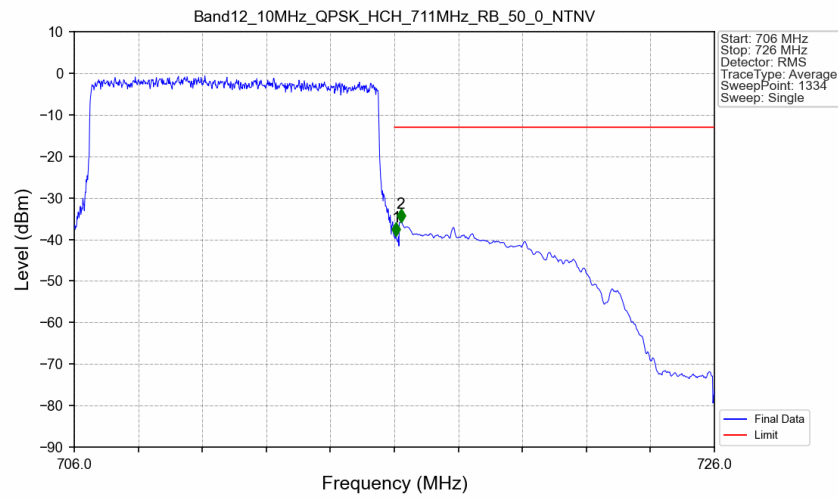


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-38.17	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.42	-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	716.053	-39.04	-13	Pass
716.1	726	0.1	CHP	2	716.203	-35.81	-13	Pass