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	24.08	1.40	23.33	<=34.77	Pass
			2	23.96	1.40	23.21	<=34.77	Pass
			5	23.95	1.40	23.20	<=34.77	Pass
		3	0	24.09	1.40	23.34	<=34.77	Pass
			2	24.06	1.40	23.31	<=34.77	Pass
			3	24.06	1.40	23.31	<=34.77	Pass
		6	0	23.06	1.40	22.31	<=34.77	Pass
	707.5	1	0	23.92	1.40	23.17	<=34.77	Pass
			2	23.67	1.40	22.92	<=34.77	Pass
			5	24.04	1.40	23.29	<=34.77	Pass
		3	0	24.02	1.40	23.27	<=34.77	Pass
			2	24.04	1.40	23.29	<=34.77	Pass
			3	24.05	1.40	23.30	<=34.77	Pass
		6	0	22.98	1.40	22.23	<=34.77	Pass
	715.3	1	0	23.94	1.40	23.19	<=34.77	Pass
			2	23.95	1.40	23.20	<=34.77	Pass
			5	23.92	1.40	23.17	<=34.77	Pass
		3	0	23.92	1.40	23.17	<=34.77	Pass
			2	23.98	1.40	23.23	<=34.77	Pass
			3	23.92	1.40	23.17	<=34.77	Pass
		6	0	22.97	1.40	22.22	<=34.77	Pass
16QAM	699.7	1	0	23.11	1.40	22.36	<=34.77	Pass
			2	23.20	1.40	22.45	<=34.77	Pass
			5	22.99	1.40	22.24	<=34.77	Pass
		3	0	23.09	1.40	22.34	<=34.77	Pass
			2	23.01	1.40	22.26	<=34.77	Pass
			3	22.99	1.40	22.24	<=34.77	Pass
		6	0	22.08	1.40	21.33	<=34.77	Pass
	707.5	1	0	23.10	1.40	22.35	<=34.77	Pass
			2	23.10	1.40	22.35	<=34.77	Pass
			5	22.67	1.40	21.92	<=34.77	Pass
		3	0	22.98	1.40	22.23	<=34.77	Pass
			2	23.11	1.40	22.36	<=34.77	Pass
			3	22.98	1.40	22.23	<=34.77	Pass
		6	0	22.05	1.40	21.30	<=34.77	Pass
	715.3	1	0	23.23	1.40	22.48	<=34.77	Pass
			2	23.10	1.40	22.35	<=34.77	Pass
			5	23.01	1.40	22.26	<=34.77	Pass
		3	0	23.00	1.40	22.25	<=34.77	Pass
			2	22.80	1.40	22.05	<=34.77	Pass
			3	23.03	1.40	22.28	<=34.77	Pass
		6	0	22.05	1.40	21.30	<=34.77	Pass
64QAM	699.7	1	0	22.23	1.40	21.48	<=34.77	Pass
			2	22.22	1.40	21.47	<=34.77	Pass
			5	22.17	1.40	21.42	<=34.77	Pass
		3	0	22.06	1.40	21.31	<=34.77	Pass
			2	22.03	1.40	21.28	<=34.77	Pass
			3	22.09	1.40	21.34	<=34.77	Pass
		6	0	21.06	1.40	20.31	<=34.77	Pass

	707.5	1	0	22.10	1.40	21.35	<=34.77	Pass
			2	21.86	1.40	21.11	<=34.77	Pass
			5	21.78	1.40	21.03	<=34.77	Pass
		3	0	22.00	1.40	21.25	<=34.77	Pass
			2	22.03	1.40	21.28	<=34.77	Pass
			3	21.51	1.40	20.76	<=34.77	Pass
		6	0	21.00	1.40	20.25	<=34.77	Pass
	715.3	1	0	21.95	1.40	21.20	<=34.77	Pass
			2	21.07	1.40	20.32	<=34.77	Pass
			5	22.17	1.40	21.42	<=34.77	Pass
		3	0	22.05	1.40	21.30	<=34.77	Pass
			2	21.94	1.40	21.19	<=34.77	Pass
			3	22.02	1.40	21.27	<=34.77	Pass
		6	0	21.02	1.40	20.27	<=34.77	Pass
256QAM	699.7	1	0	19.15	1.40	18.40	<=34.77	Pass
			2	19.00	1.40	18.25	<=34.77	Pass
			5	19.03	1.40	18.28	<=34.77	Pass
		3	0	19.12	1.40	18.37	<=34.77	Pass
			2	19.09	1.40	18.34	<=34.77	Pass
			3	19.10	1.40	18.35	<=34.77	Pass
		6	0	19.00	1.40	18.25	<=34.77	Pass
	707.5	1	0	18.89	1.40	18.14	<=34.77	Pass
			2	19.08	1.40	18.33	<=34.77	Pass
			5	18.93	1.40	18.18	<=34.77	Pass
		3	0	19.05	1.40	18.30	<=34.77	Pass
			2	19.03	1.40	18.28	<=34.77	Pass
			3	19.09	1.40	18.34	<=34.77	Pass
		6	0	18.97	1.40	18.22	<=34.77	Pass
	715.3	1	0	18.81	1.40	18.06	<=34.77	Pass
			2	18.95	1.40	18.20	<=34.77	Pass
			5	19.08	1.40	18.33	<=34.77	Pass
		3	0	19.09	1.40	18.34	<=34.77	Pass
			2	19.12	1.40	18.37	<=34.77	Pass
			3	19.01	1.40	18.26	<=34.77	Pass
		6	0	18.88	1.40	18.13	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B12_3MHz_ERP

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	24.02	1.40	23.27	<=34.77	Pass
			7	24.10	1.40	23.35	<=34.77	Pass
			14	24.06	1.40	23.31	<=34.77	Pass
		8	0	23.06	1.40	22.31	<=34.77	Pass
			4	23.04	1.40	22.29	<=34.77	Pass
			7	23.06	1.40	22.31	<=34.77	Pass
		15	0	23.09	1.40	22.34	<=34.77	Pass
	707.5	1	0	24.03	1.40	23.28	<=34.77	Pass
			7	23.78	1.40	23.03	<=34.77	Pass
			14	24.00	1.40	23.25	<=34.77	Pass
		8	0	23.07	1.40	22.32	<=34.77	Pass
			4	23.01	1.40	22.26	<=34.77	Pass
			7	23.00	1.40	22.25	<=34.77	Pass
		15	0	23.05	1.40	22.30	<=34.77	Pass
	714.5	1	0	23.95	1.40	23.20	<=34.77	Pass

			7	23.95	1.40	23.20	<=34.77	Pass
			14	23.83	1.40	23.08	<=34.77	Pass
		8	0	23.04	1.40	22.29	<=34.77	Pass
			4	23.02	1.40	22.27	<=34.77	Pass
			7	22.96	1.40	22.21	<=34.77	Pass
		15	0	23.07	1.40	22.32	<=34.77	Pass
16QAM	700.5	1	0	23.07	1.40	22.32	<=34.77	Pass
			7	23.04	1.40	22.29	<=34.77	Pass
			14	22.96	1.40	22.21	<=34.77	Pass
		8	0	22.16	1.40	21.41	<=34.77	Pass
			4	22.15	1.40	21.40	<=34.77	Pass
			7	22.13	1.40	21.38	<=34.77	Pass
		15	0	22.14	1.40	21.39	<=34.77	Pass
	707.5	1	0	23.12	1.40	22.37	<=34.77	Pass
			7	22.92	1.40	22.17	<=34.77	Pass
			14	22.86	1.40	22.11	<=34.77	Pass
		8	0	22.10	1.40	21.35	<=34.77	Pass
			4	22.09	1.40	21.34	<=34.77	Pass
			7	22.04	1.40	21.29	<=34.77	Pass
		15	0	22.06	1.40	21.31	<=34.77	Pass
	714.5	1	0	23.05	1.40	22.30	<=34.77	Pass
			7	22.94	1.40	22.19	<=34.77	Pass
			14	23.05	1.40	22.30	<=34.77	Pass
		8	0	22.05	1.40	21.30	<=34.77	Pass
			4	22.06	1.40	21.31	<=34.77	Pass
			7	22.08	1.40	21.33	<=34.77	Pass
		15	0	22.07	1.40	21.32	<=34.77	Pass
64QAM	700.5	1	0	22.11	1.40	21.36	<=34.77	Pass
			7	22.05	1.40	21.30	<=34.77	Pass
			14	22.09	1.40	21.34	<=34.77	Pass
		8	0	21.08	1.40	20.33	<=34.77	Pass
			4	21.08	1.40	20.33	<=34.77	Pass
			7	21.11	1.40	20.36	<=34.77	Pass
		15	0	21.13	1.40	20.38	<=34.77	Pass
	707.5	1	0	22.10	1.40	21.35	<=34.77	Pass
			7	22.10	1.40	21.35	<=34.77	Pass
			14	21.70	1.40	20.95	<=34.77	Pass
		8	0	21.02	1.40	20.27	<=34.77	Pass
			4	21.04	1.40	20.29	<=34.77	Pass
			7	21.09	1.40	20.34	<=34.77	Pass
		15	0	21.00	1.40	20.25	<=34.77	Pass
	714.5	1	0	22.21	1.40	21.46	<=34.77	Pass
			7	22.03	1.40	21.28	<=34.77	Pass
			14	22.09	1.40	21.34	<=34.77	Pass
		8	0	21.09	1.40	20.34	<=34.77	Pass
			4	20.98	1.40	20.23	<=34.77	Pass
			7	21.03	1.40	20.28	<=34.77	Pass
		15	0	21.06	1.40	20.31	<=34.77	Pass
256QAM	700.5	1	0	19.04	1.40	18.29	<=34.77	Pass
			7	19.07	1.40	18.32	<=34.77	Pass
			14	18.91	1.40	18.16	<=34.77	Pass
		8	0	19.07	1.40	18.32	<=34.77	Pass
			4	19.08	1.40	18.33	<=34.77	Pass
			7	19.06	1.40	18.31	<=34.77	Pass
		15	0	19.08	1.40	18.33	<=34.77	Pass
	707.5	1	0	19.10	1.40	18.35	<=34.77	Pass
			7	19.07	1.40	18.32	<=34.77	Pass
			14	19.01	1.40	18.26	<=34.77	Pass
		8	0	19.05	1.40	18.30	<=34.77	Pass

			4	19.02	1.40	18.27	<=34.77	Pass
			7	19.02	1.40	18.27	<=34.77	Pass
		15	0	19.03	1.40	18.28	<=34.77	Pass
	714.5	1	0	19.04	1.40	18.29	<=34.77	Pass
			7	19.02	1.40	18.27	<=34.77	Pass
			14	18.94	1.40	18.19	<=34.77	Pass
		8	0	19.04	1.40	18.29	<=34.77	Pass
			4	19.01	1.40	18.26	<=34.77	Pass
			7	19.03	1.40	18.28	<=34.77	Pass
		15	0	19.03	1.40	18.28	<=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	24.04	1.40	23.29	<=34.77	Pass
			13	24.01	1.40	23.26	<=34.77	Pass
			24	24.09	1.40	23.34	<=34.77	Pass
		12	0	23.09	1.40	22.34	<=34.77	Pass
			6	23.11	1.40	22.36	<=34.77	Pass
			13	23.07	1.40	22.32	<=34.77	Pass
		25	0	23.09	1.40	22.34	<=34.77	Pass
	707.5	1	0	24.10	1.40	23.35	<=34.77	Pass
			13	23.71	1.40	22.96	<=34.77	Pass
			24	24.03	1.40	23.28	<=34.77	Pass
		12	0	23.11	1.40	22.36	<=34.77	Pass
			6	23.08	1.40	22.33	<=34.77	Pass
			13	23.05	1.40	22.30	<=34.77	Pass
		25	0	23.07	1.40	22.32	<=34.77	Pass
	713.5	1	0	23.97	1.40	23.22	<=34.77	Pass
			13	23.91	1.40	23.16	<=34.77	Pass
			24	23.95	1.40	23.20	<=34.77	Pass
		12	0	23.08	1.40	22.33	<=34.77	Pass
			6	23.00	1.40	22.25	<=34.77	Pass
			13	22.97	1.40	22.22	<=34.77	Pass
		25	0	23.08	1.40	22.33	<=34.77	Pass
16QAM	701.5	1	0	22.92	1.40	22.17	<=34.77	Pass
			13	23.15	1.40	22.40	<=34.77	Pass
			24	23.07	1.40	22.32	<=34.77	Pass
		12	0	22.14	1.40	21.39	<=34.77	Pass
			6	22.06	1.40	21.31	<=34.77	Pass
			13	22.09	1.40	21.34	<=34.77	Pass
		25	0	22.10	1.40	21.35	<=34.77	Pass
	707.5	1	0	22.87	1.40	22.12	<=34.77	Pass
			13	22.64	1.40	21.89	<=34.77	Pass
			24	23.03	1.40	22.28	<=34.77	Pass
		12	0	22.06	1.40	21.31	<=34.77	Pass
			6	22.04	1.40	21.29	<=34.77	Pass
			13	22.06	1.40	21.31	<=34.77	Pass
		25	0	22.06	1.40	21.31	<=34.77	Pass
	713.5	1	0	22.98	1.40	22.23	<=34.77	Pass
			13	23.14	1.40	22.39	<=34.77	Pass
			24	22.98	1.40	22.23	<=34.77	Pass
		12	0	22.13	1.40	21.38	<=34.77	Pass
			6	22.05	1.40	21.30	<=34.77	Pass

			13	22.00	1.40	21.25	<=34.77	Pass
		25	0	22.06	1.40	21.31	<=34.77	Pass
64QAM	701.5	1	0	22.11	1.40	21.36	<=34.77	Pass
			13	21.96	1.40	21.21	<=34.77	Pass
			24	21.96	1.40	21.21	<=34.77	Pass
		12	0	21.14	1.40	20.39	<=34.77	Pass
			6	21.11	1.40	20.36	<=34.77	Pass
			13	21.13	1.40	20.38	<=34.77	Pass
		25	0	21.09	1.40	20.34	<=34.77	Pass
	707.5	1	0	22.06	1.40	21.31	<=34.77	Pass
			13	21.96	1.40	21.21	<=34.77	Pass
			24	21.59	1.40	20.84	<=34.77	Pass
		12	0	21.13	1.40	20.38	<=34.77	Pass
			6	21.10	1.40	20.35	<=34.77	Pass
			13	21.06	1.40	20.31	<=34.77	Pass
		25	0	21.05	1.40	20.30	<=34.77	Pass
	713.5	1	0	21.93	1.40	21.18	<=34.77	Pass
			13	21.80	1.40	21.05	<=34.77	Pass
			24	22.19	1.40	21.44	<=34.77	Pass
		12	0	21.16	1.40	20.41	<=34.77	Pass
			6	21.09	1.40	20.34	<=34.77	Pass
			13	21.04	1.40	20.29	<=34.77	Pass
		25	0	21.04	1.40	20.29	<=34.77	Pass
256QAM	701.5	1	0	18.95	1.40	18.20	<=34.77	Pass
			13	19.05	1.40	18.30	<=34.77	Pass
			24	19.13	1.40	18.38	<=34.77	Pass
		12	0	19.09	1.40	18.34	<=34.77	Pass
			6	19.04	1.40	18.29	<=34.77	Pass
			13	19.01	1.40	18.26	<=34.77	Pass
		25	0	19.05	1.40	18.30	<=34.77	Pass
	707.5	1	0	19.10	1.40	18.35	<=34.77	Pass
			13	18.86	1.40	18.11	<=34.77	Pass
			24	19.08	1.40	18.33	<=34.77	Pass
		12	0	19.06	1.40	18.31	<=34.77	Pass
			6	19.04	1.40	18.29	<=34.77	Pass
			13	19.01	1.40	18.26	<=34.77	Pass
		25	0	19.02	1.40	18.27	<=34.77	Pass
	713.5	1	0	18.97	1.40	18.22	<=34.77	Pass
			13	19.00	1.40	18.25	<=34.77	Pass
			24	19.14	1.40	18.39	<=34.77	Pass
		12	0	19.05	1.40	18.30	<=34.77	Pass
			6	19.02	1.40	18.27	<=34.77	Pass
			13	19.00	1.40	18.25	<=34.77	Pass
		25	0	19.02	1.40	18.27	<=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	24.08	1.40	23.33	<=34.77	Pass
			25	24.03	1.40	23.28	<=34.77	Pass
			49	24.03	1.40	23.28	<=34.77	Pass
		25	0	23.05	1.40	22.30	<=34.77	Pass
			13	23.06	1.40	22.31	<=34.77	Pass
			25	23.05	1.40	22.30	<=34.77	Pass

		50	0	23.04	1.40	22.29	<=34.77	Pass
	707.5	1	0	24.08	1.40	23.33	<=34.77	Pass
			25	23.95	1.40	23.20	<=34.77	Pass
			49	23.97	1.40	23.22	<=34.77	Pass
		25	0	23.06	1.40	22.31	<=34.77	Pass
			13	23.00	1.40	22.25	<=34.77	Pass
			25	22.97	1.40	22.22	<=34.77	Pass
		50	0	22.99	1.40	22.24	<=34.77	Pass
	711	1	0	24.03	1.40	23.28	<=34.77	Pass
			25	23.89	1.40	23.14	<=34.77	Pass
			49	23.96	1.40	23.21	<=34.77	Pass
		25	0	23.04	1.40	22.29	<=34.77	Pass
			13	22.97	1.40	22.22	<=34.77	Pass
			25	22.94	1.40	22.19	<=34.77	Pass
		50	0	22.97	1.40	22.22	<=34.77	Pass
16QAM	704	1	0	23.30	1.40	22.55	<=34.77	Pass
			25	23.18	1.40	22.43	<=34.77	Pass
			49	23.24	1.40	22.49	<=34.77	Pass
		25	0	22.04	1.40	21.29	<=34.77	Pass
			13	22.04	1.40	21.29	<=34.77	Pass
			25	22.03	1.40	21.28	<=34.77	Pass
		50	0	22.03	1.40	21.28	<=34.77	Pass
	707.5	1	0	23.29	1.40	22.54	<=34.77	Pass
			25	23.08	1.40	22.33	<=34.77	Pass
			49	23.04	1.40	22.29	<=34.77	Pass
		25	0	21.98	1.40	21.23	<=34.77	Pass
			13	21.93	1.40	21.18	<=34.77	Pass
			25	21.88	1.40	21.13	<=34.77	Pass
		50	0	21.95	1.40	21.20	<=34.77	Pass
	711	1	0	23.25	1.40	22.50	<=34.77	Pass
			25	23.20	1.40	22.45	<=34.77	Pass
			49	23.23	1.40	22.48	<=34.77	Pass
		25	0	22.03	1.40	21.28	<=34.77	Pass
			13	21.99	1.40	21.24	<=34.77	Pass
			25	21.99	1.40	21.24	<=34.77	Pass
		50	0	21.97	1.40	21.22	<=34.77	Pass
64QAM	704	1	0	22.03	1.40	21.28	<=34.77	Pass
			25	22.16	1.40	21.41	<=34.77	Pass
			49	22.09	1.40	21.34	<=34.77	Pass
		25	0	21.02	1.40	20.27	<=34.77	Pass
			13	21.01	1.40	20.26	<=34.77	Pass
			25	21.03	1.40	20.28	<=34.77	Pass
		50	0	21.01	1.40	20.26	<=34.77	Pass
	707.5	1	0	22.13	1.40	21.38	<=34.77	Pass
			25	22.07	1.40	21.32	<=34.77	Pass
			49	22.13	1.40	21.38	<=34.77	Pass
		25	0	21.06	1.40	20.31	<=34.77	Pass
			13	20.97	1.40	20.22	<=34.77	Pass
			25	20.93	1.40	20.18	<=34.77	Pass
		50	0	20.99	1.40	20.24	<=34.77	Pass
	711	1	0	22.17	1.40	21.42	<=34.77	Pass
			25	22.04	1.40	21.29	<=34.77	Pass
			49	22.11	1.40	21.36	<=34.77	Pass
		25	0	21.00	1.40	20.25	<=34.77	Pass
			13	20.98	1.40	20.23	<=34.77	Pass
			25	20.95	1.40	20.20	<=34.77	Pass
		50	0	20.95	1.40	20.20	<=34.77	Pass
256QAM	704	1	0	19.12	1.40	18.37	<=34.77	Pass
			25	19.11	1.40	18.36	<=34.77	Pass

			49	19.08	1.40	18.33	<=34.77	Pass
		25	0	18.97	1.40	18.22	<=34.77	Pass
			13	18.94	1.40	18.19	<=34.77	Pass
			25	18.92	1.40	18.17	<=34.77	Pass
		50	0	18.92	1.40	18.17	<=34.77	Pass
	707.5	1	0	19.11	1.40	18.36	<=34.77	Pass
			25	19.13	1.40	18.38	<=34.77	Pass
			49	19.12	1.40	18.37	<=34.77	Pass
		25	0	19.01	1.40	18.26	<=34.77	Pass
			13	18.95	1.40	18.20	<=34.77	Pass
			25	18.97	1.40	18.22	<=34.77	Pass
		50	0	19.00	1.40	18.25	<=34.77	Pass
	711	1	0	19.12	1.40	18.37	<=34.77	Pass
			25	19.04	1.40	18.29	<=34.77	Pass
			49	19.09	1.40	18.34	<=34.77	Pass
		25	0	19.03	1.40	18.28	<=34.77	Pass
			13	19.00	1.40	18.25	<=34.77	Pass
			25	18.91	1.40	18.16	<=34.77	Pass
		50	0	18.95	1.40	18.20	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	707.5	50	0	20	3.8	0.900	0.0013	-2.5 to 2.5	Pass
					4	-0.600	-0.0008	-2.5 to 2.5	Pass
					4.2	0.300	0.0004	-2.5 to 2.5	Pass
				-30	4	-4.400	-0.0062	-2.5 to 2.5	Pass
				-20	4	-3.000	-0.0042	-2.5 to 2.5	Pass
				-10	4	-4.100	-0.0058	-2.5 to 2.5	Pass
				0	4	-4.100	-0.0058	-2.5 to 2.5	Pass
				10	4	-3.500	-0.0049	-2.5 to 2.5	Pass
				30	4	-1.500	-0.0021	-2.5 to 2.5	Pass
				40	4	1.000	0.0014	-2.5 to 2.5	Pass
				50	4	-1.800	-0.0025	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

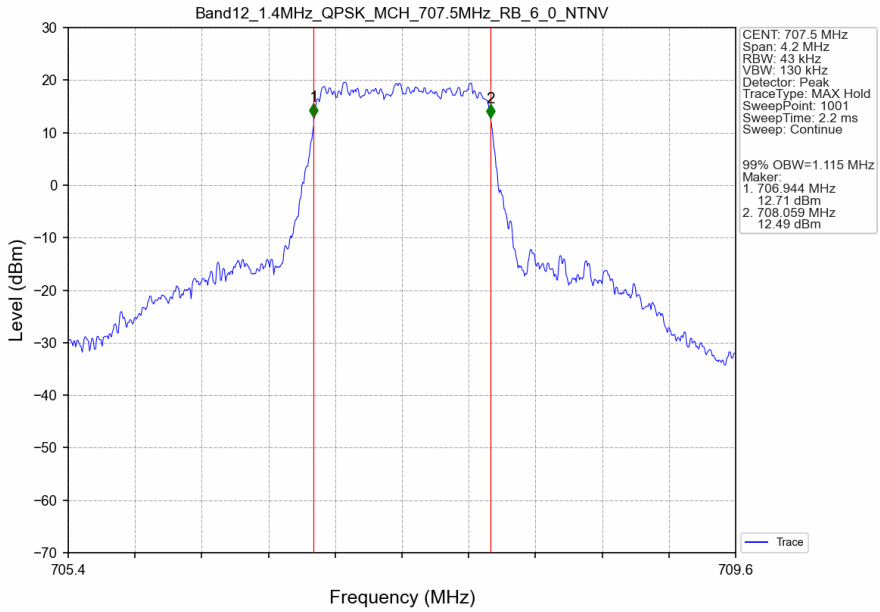
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.115	/	Pass
	16QAM	707.5	6	0	1.118	/	Pass
3	QPSK	707.5	15	0	2.725	/	Pass
	16QAM	707.5	15	0	2.726	/	Pass
5	QPSK	707.5	25	0	4.541	/	Pass
	16QAM	707.5	25	0	4.537	/	Pass
10	QPSK	707.5	50	0	9.066	/	Pass
	16QAM	707.5	50	0	9.036	/	Pass

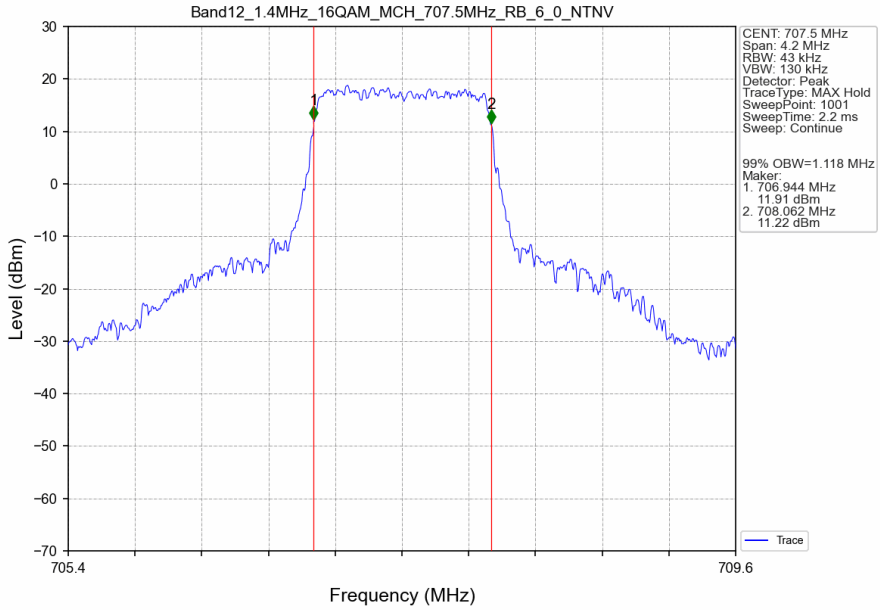
3.1.2 Band12_XDB

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	1.324	/	Pass
	16QAM	707.5	6	0	1.338	/	Pass
3	QPSK	707.5	15	0	3.042	/	Pass
	16QAM	707.5	15	0	3.023	/	Pass
5	QPSK	707.5	25	0	5.036	/	Pass
	16QAM	707.5	25	0	5.021	/	Pass
10	QPSK	707.5	50	0	9.950	/	Pass
	16QAM	707.5	50	0	9.949	/	Pass

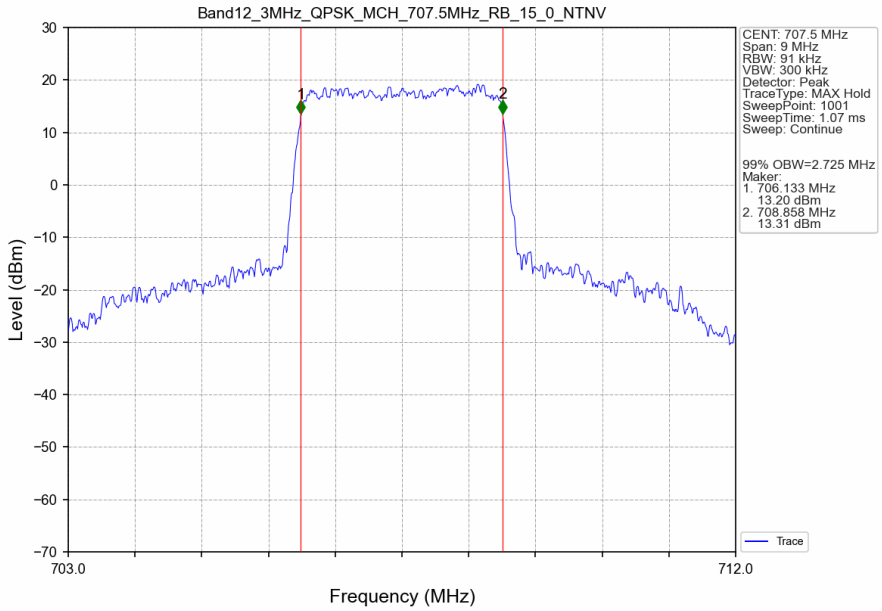
3.2 Test Graph

3.2.1 Band12_OBW

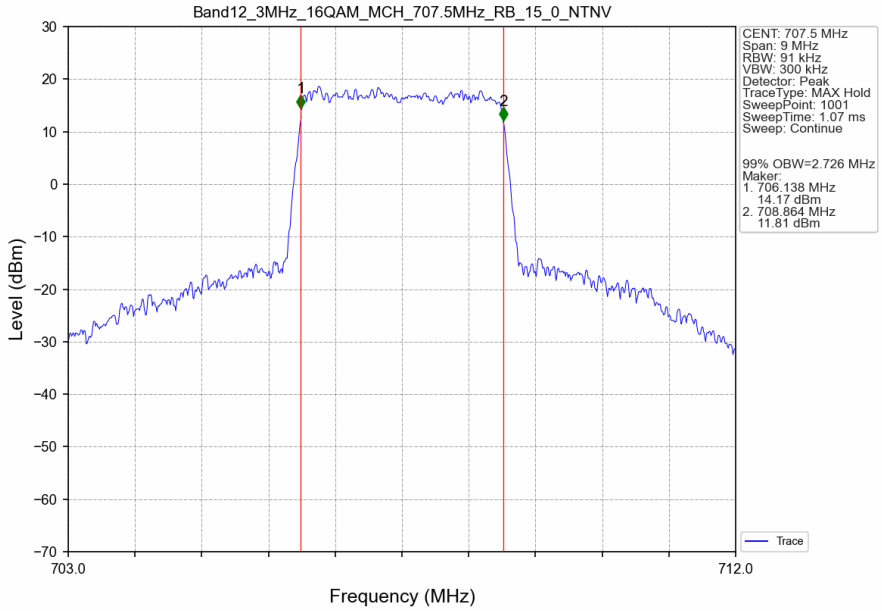
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV


Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV


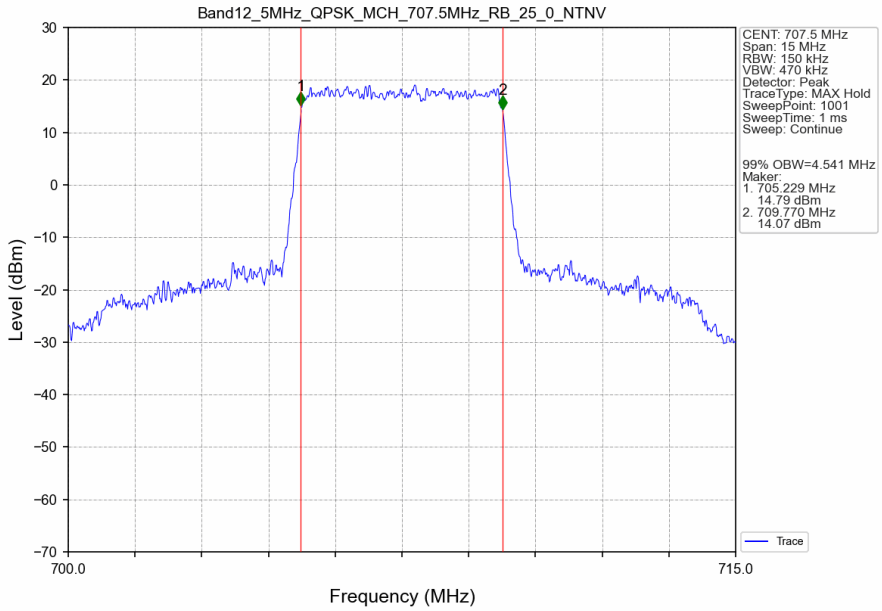
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



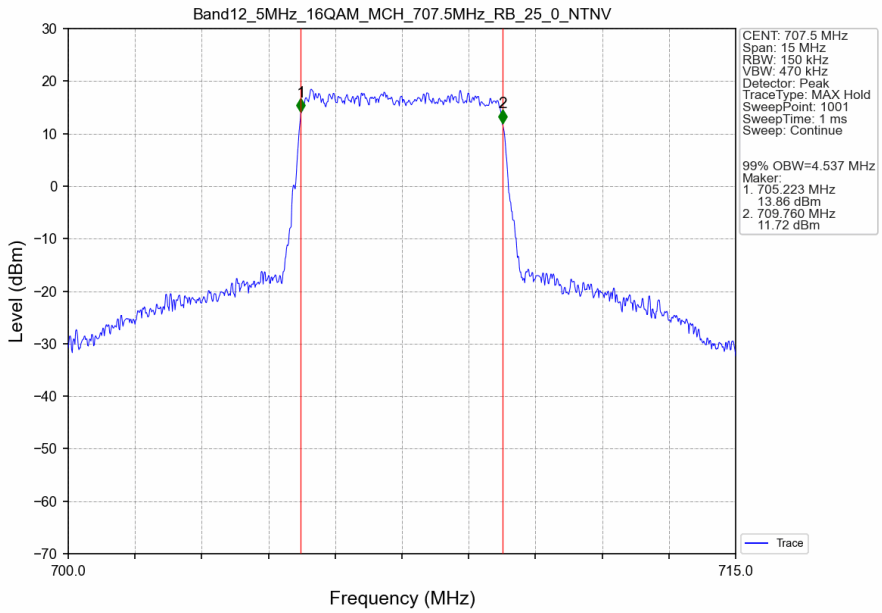
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



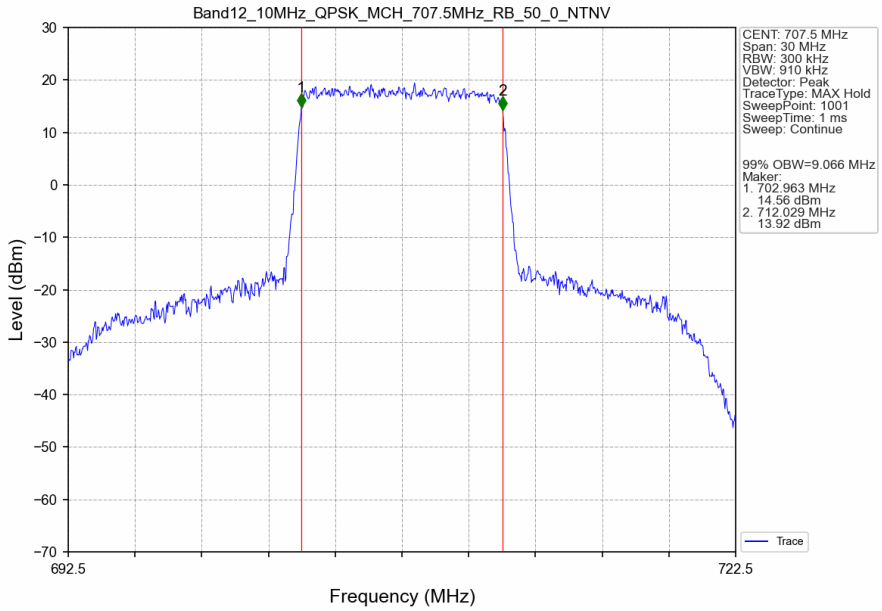
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



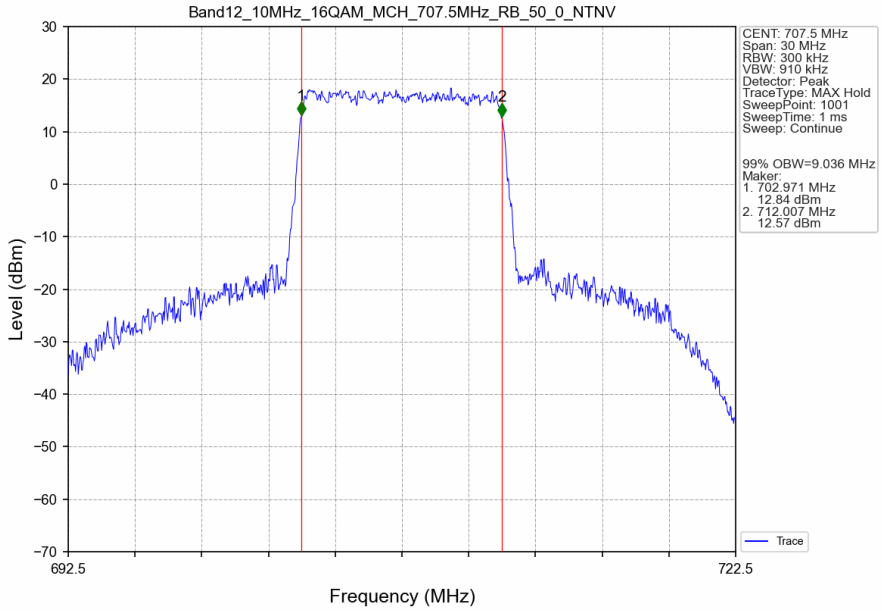
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



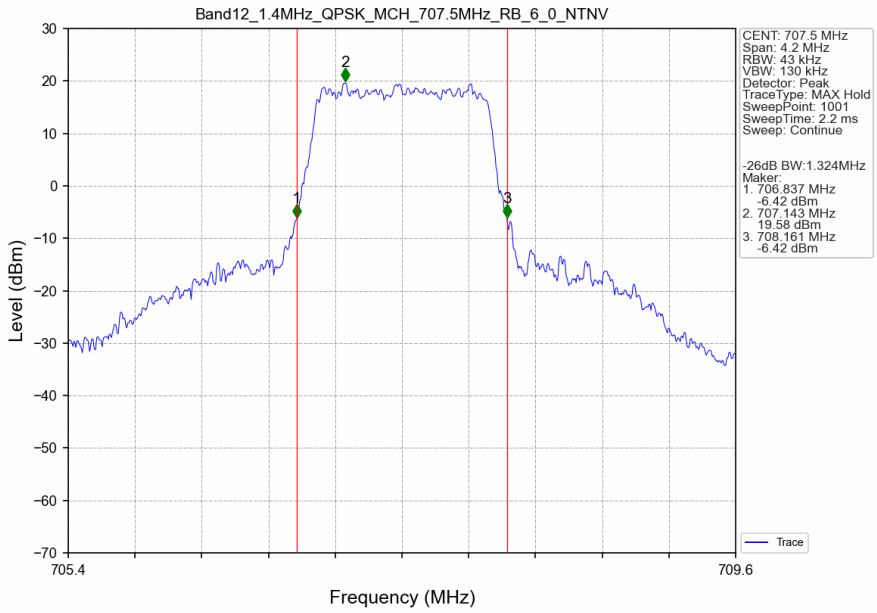
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

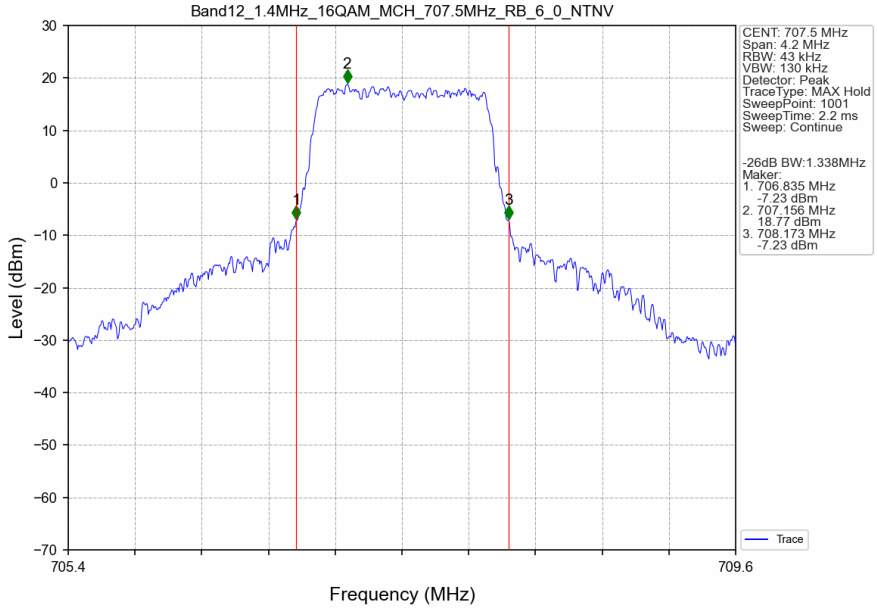


Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

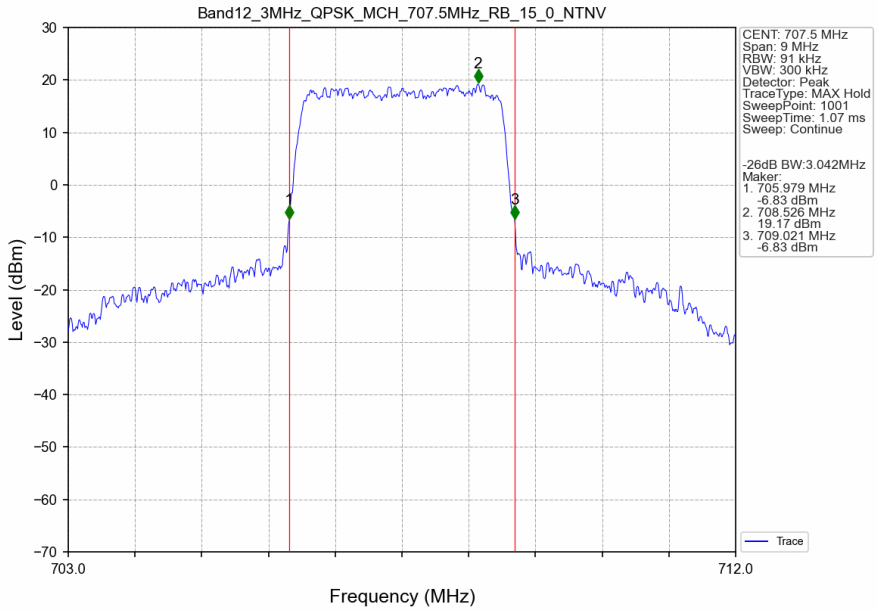


3.2.2 Band12_XDB

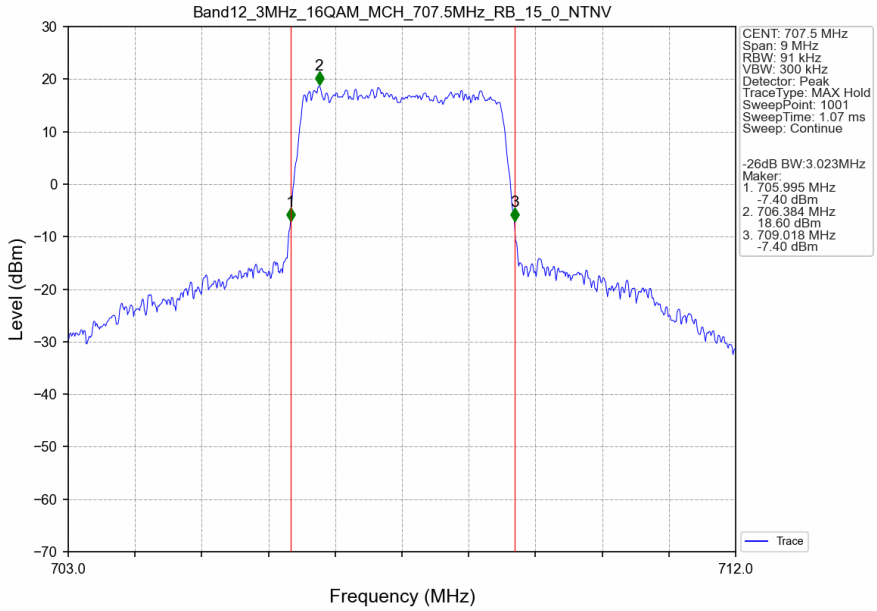
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV


Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV


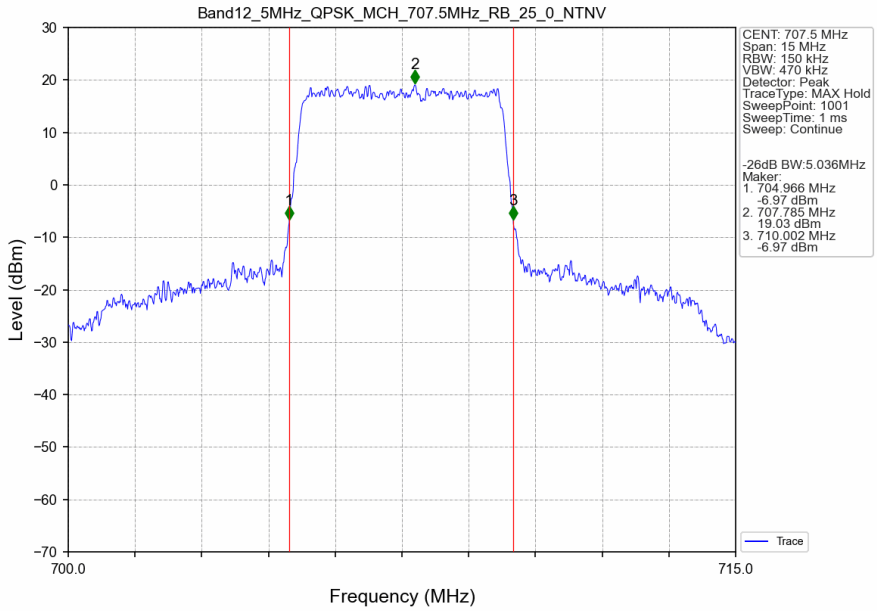
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



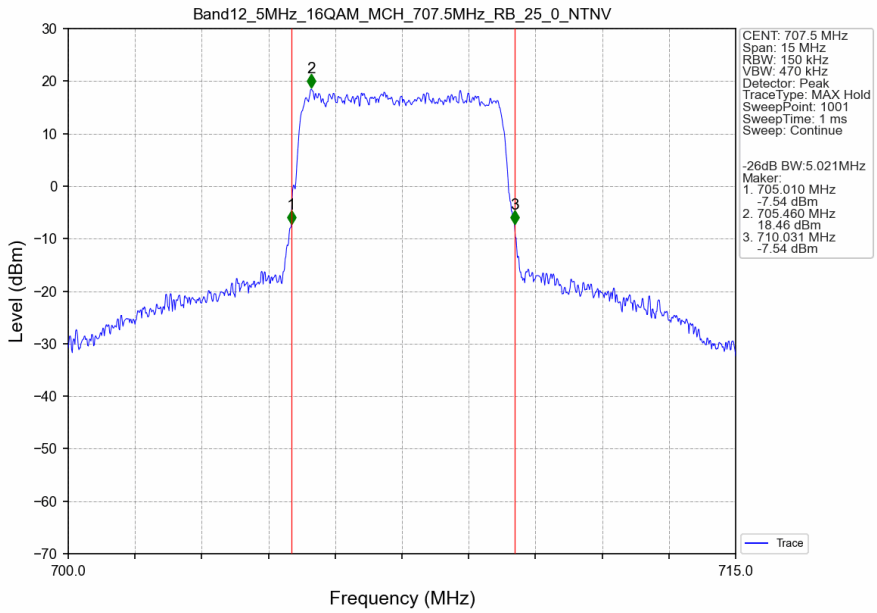
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



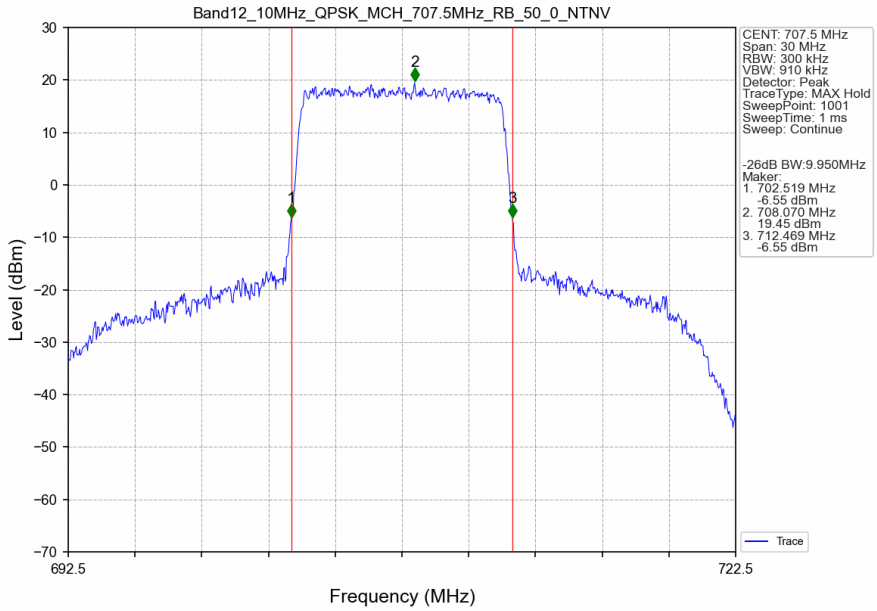
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



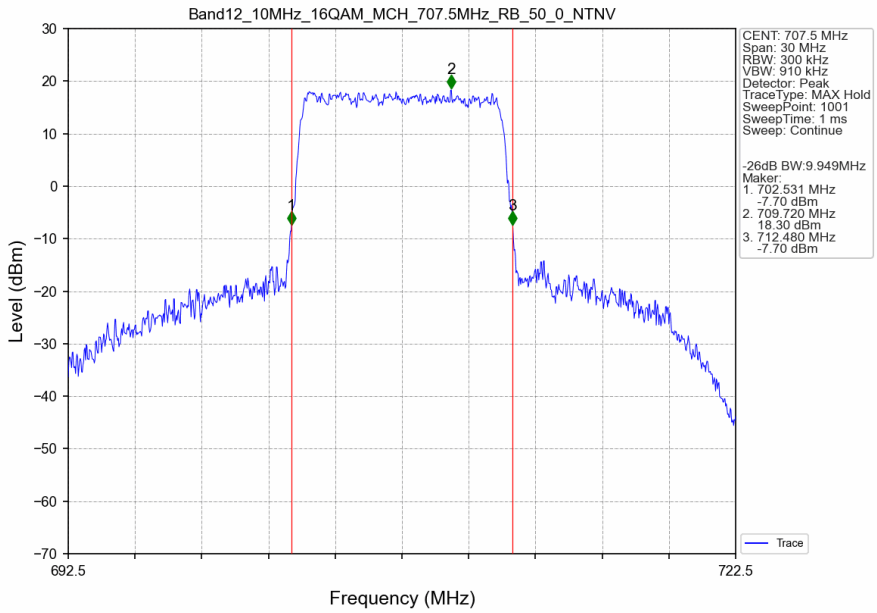
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

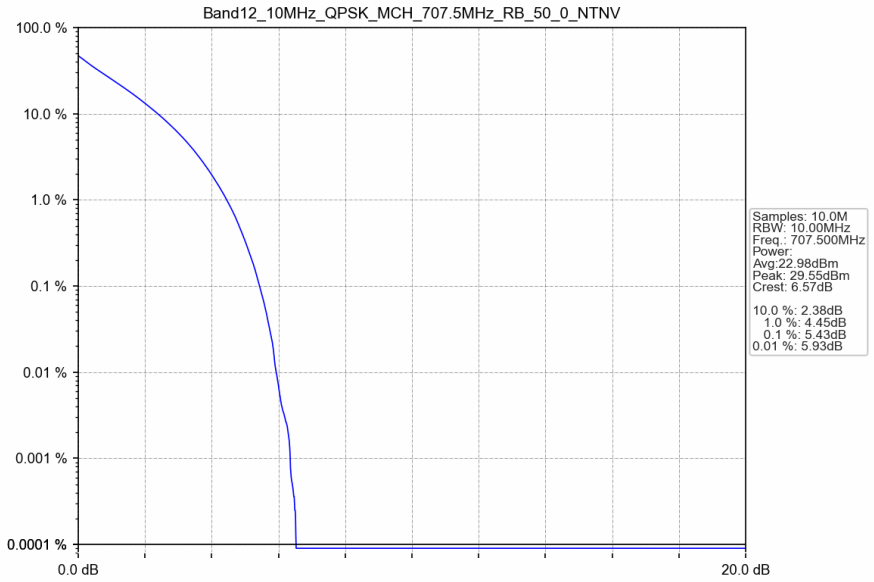
4.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	5.43	<=13	Pass
16QAM	707.5	50	0	6.08	<=13	Pass
64QAM	707.5	50	0	6.37	<=13	Pass
256QAM	707.5	50	0	6.52	<=13	Pass

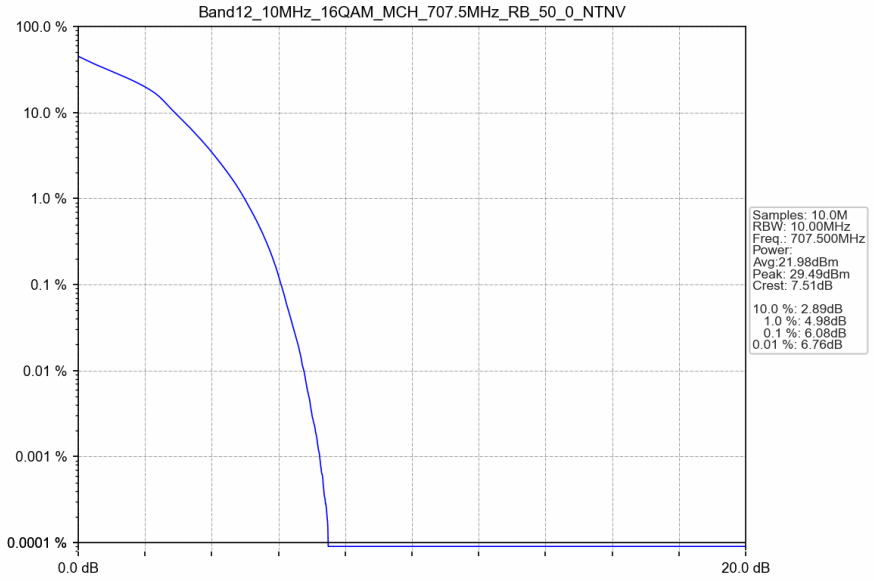
4.2 Test Graph

4.2.1 B12_10MHz

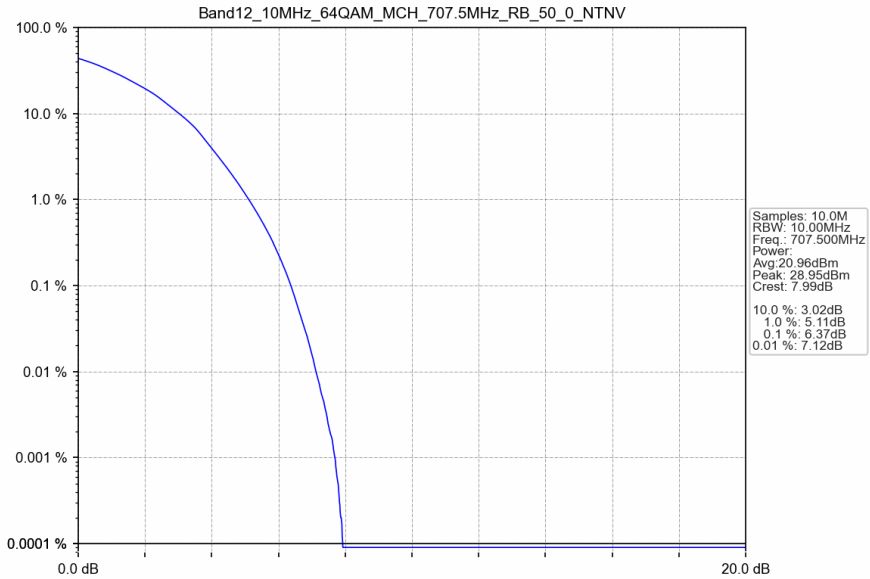
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



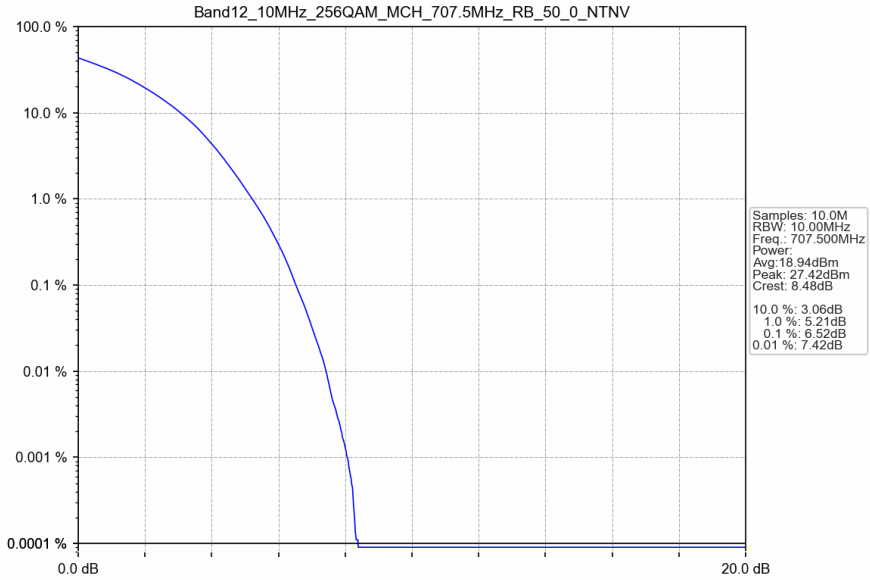
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B12_1.4MHz

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 B12_3MHz

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

5.1.3 B12_5MHz

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

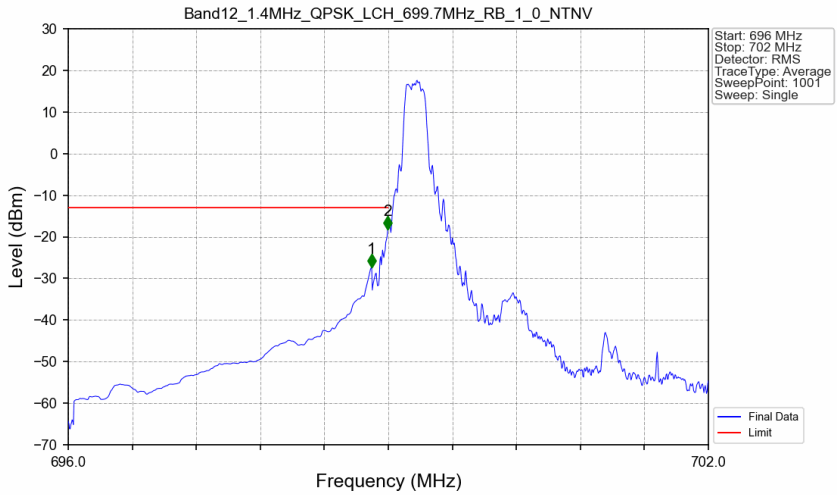
5.1.4 B12_10MHz

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

5.2 Test Graph

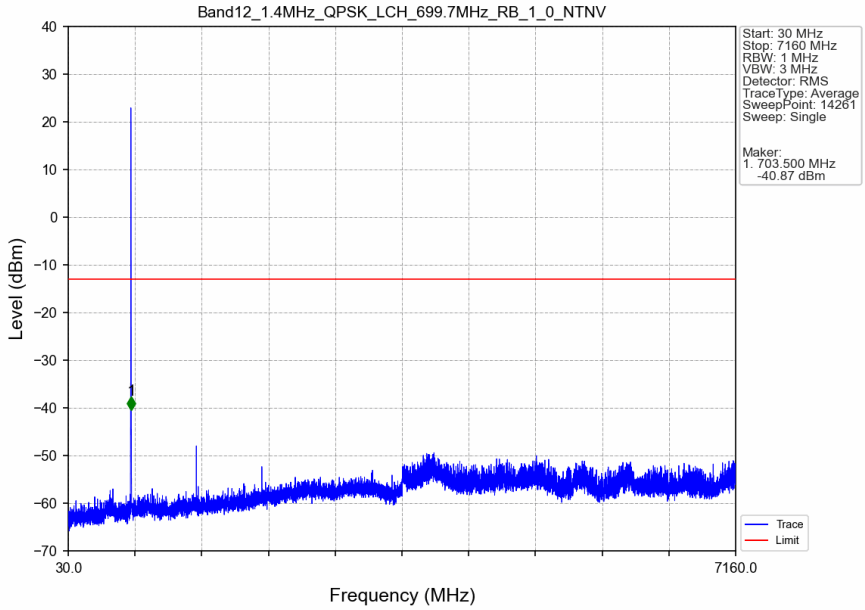
5.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

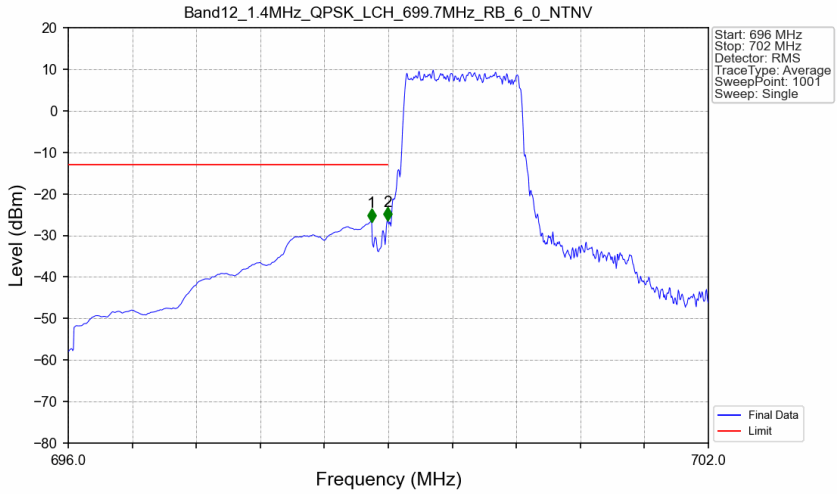


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-27.27	-13	Pass
698.9	699	0.03	/	2	698.994	-18.20	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

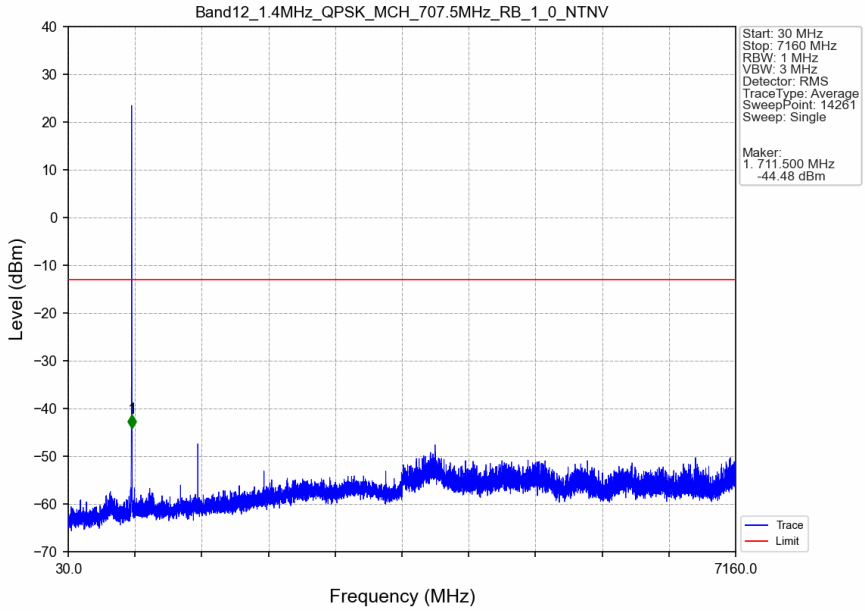


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

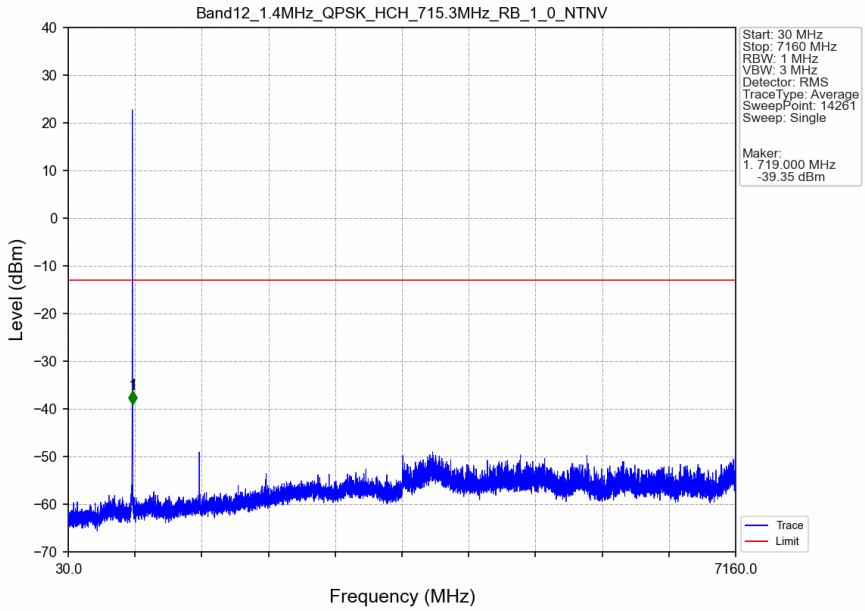


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-26.67	-13	Pass
698.9	699	0.03	/	2	698.994	-26.46	-13	Pass
699	702	0.03	/	/	/	/	/	/

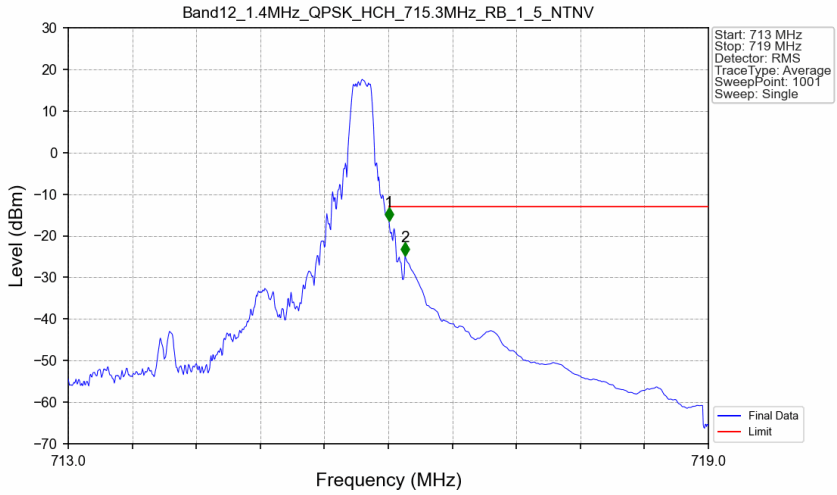
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

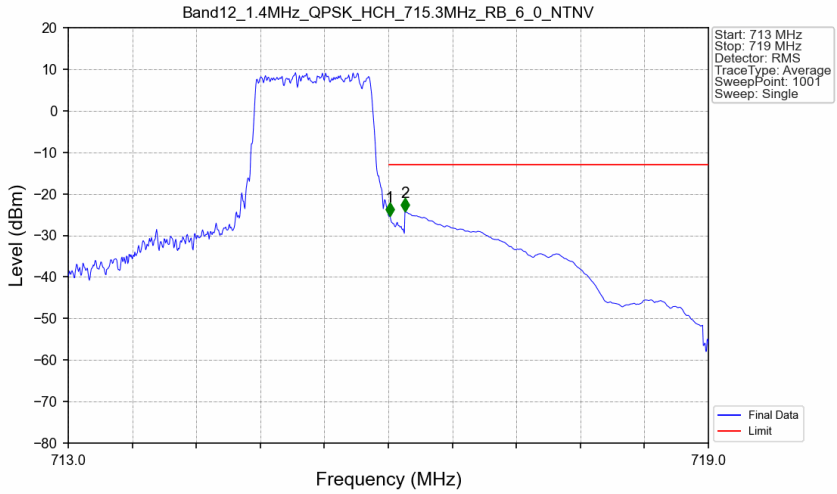


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-16.36	-13	Pass
716.1	719	0.1	CHP	2	716.156	-24.85	-13	Pass

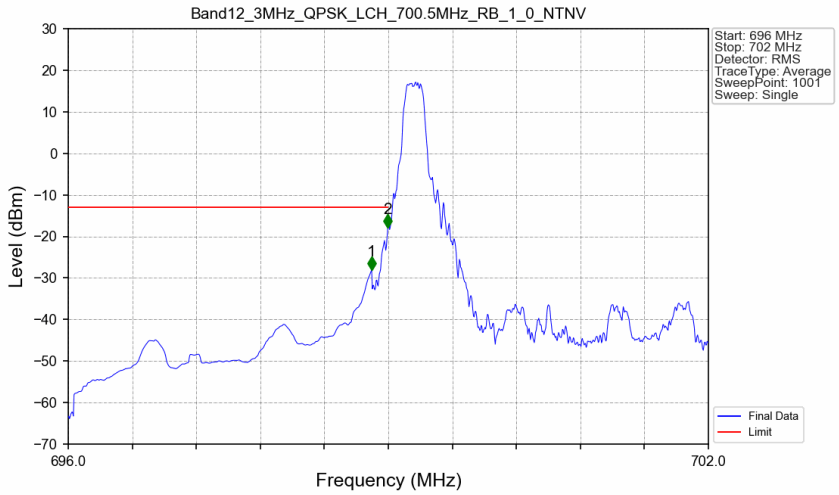
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-25.34	-13	Pass
716.1	719	0.1	CHP	2	716.156	-24.28	-13	Pass

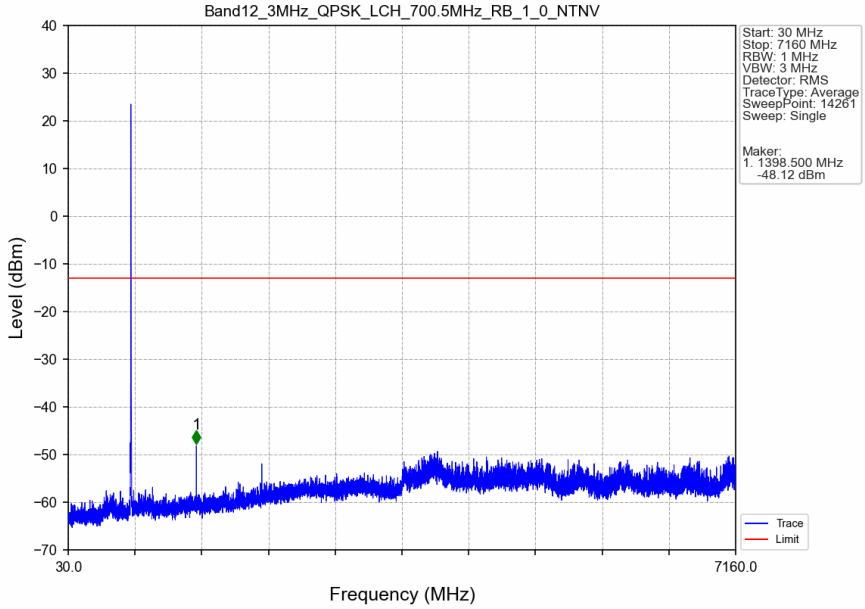
5.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

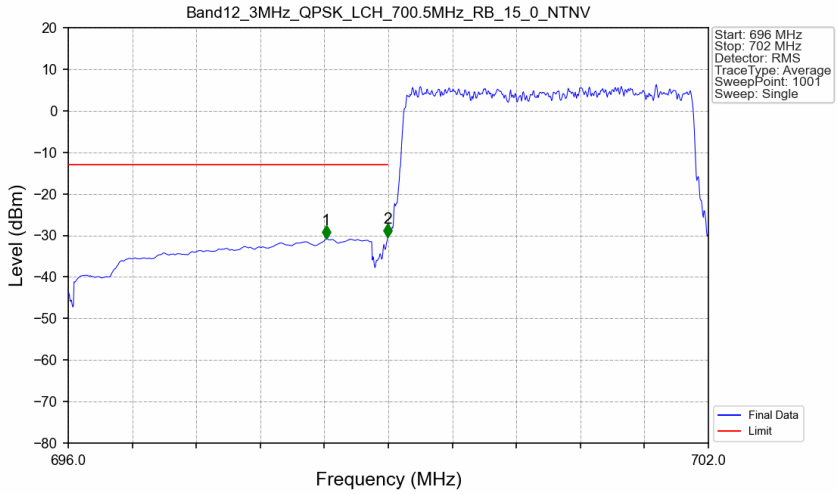


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-28.11	-13	Pass
698.9	699	0.03	/	2	698.994	-17.88	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

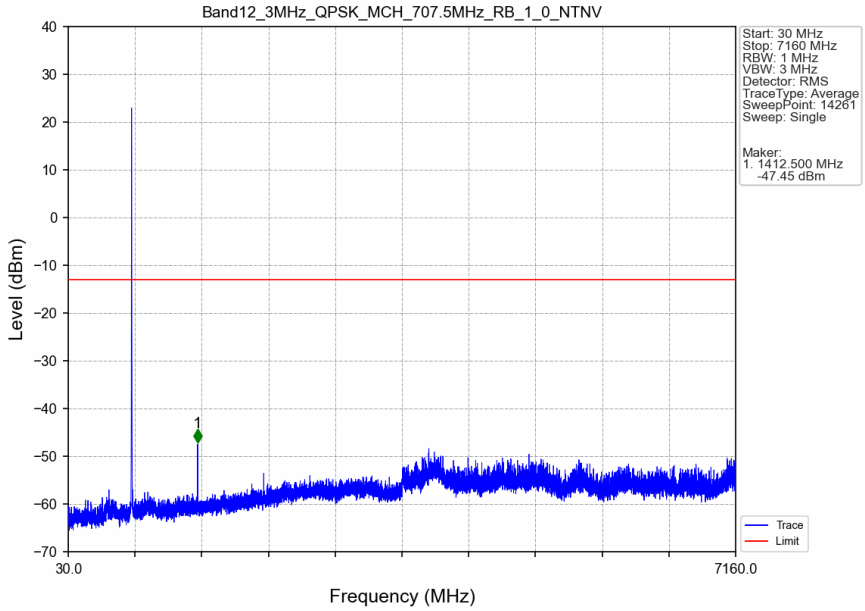


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

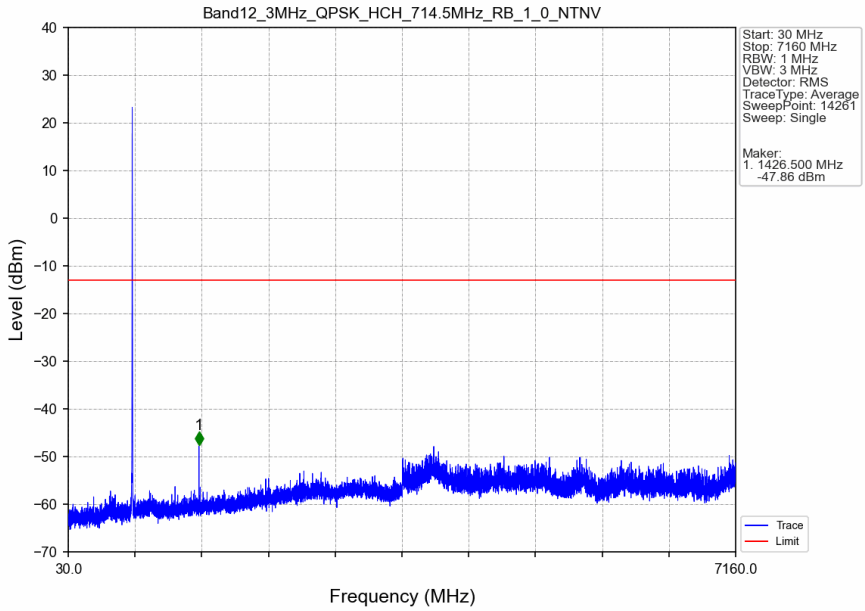


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.418	-30.85	-13	Pass
698.9	699	0.03	/	2	698.994	-30.43	-13	Pass
699	702	0.03	/	/	/	/	/	/

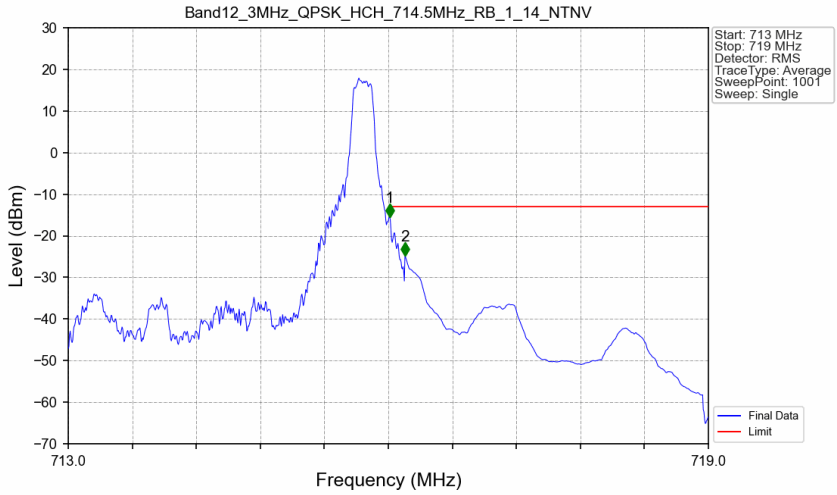
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

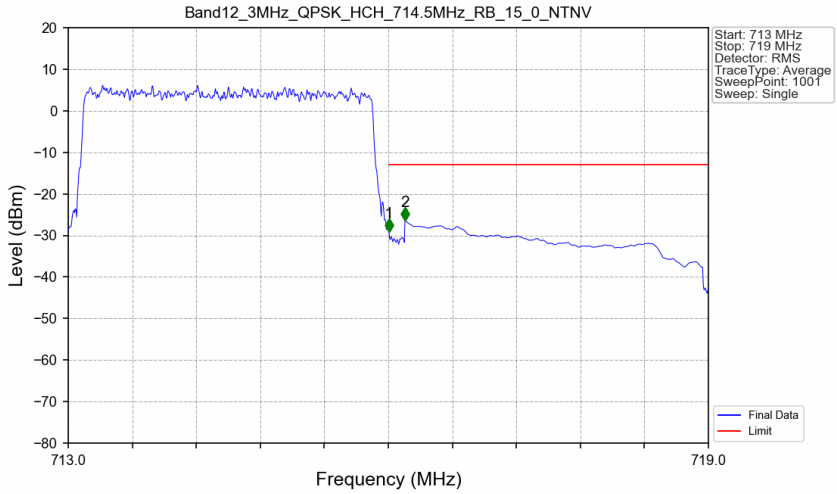


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



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	-15.39	-13	Pass
716.1	719	0.1	CHP	2	716.156	-24.68	-13	Pass

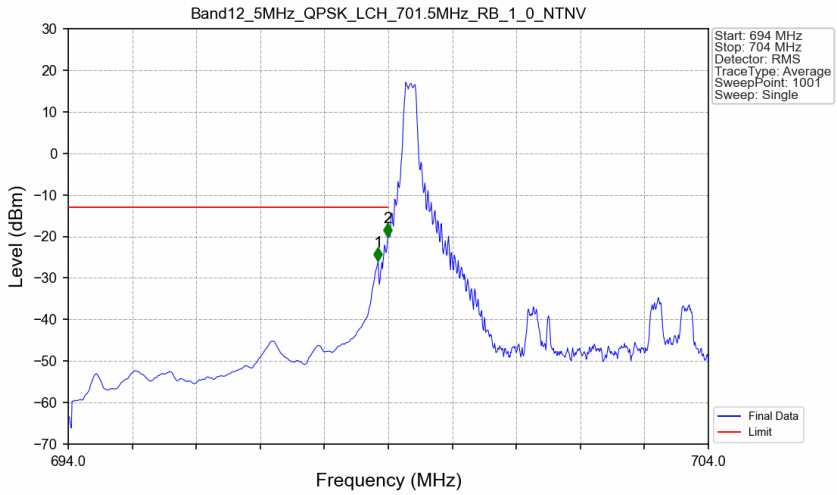
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



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	716.006	-29.19	-13	Pass
716.1	719	0.1	CHP	2	716.156	-26.43	-13	Pass

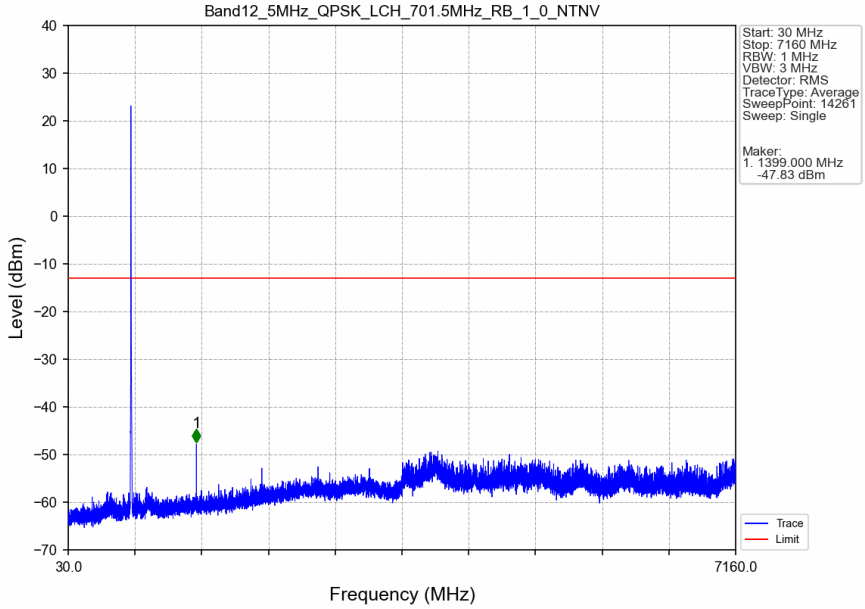
5.2.3 B12_5MHz

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

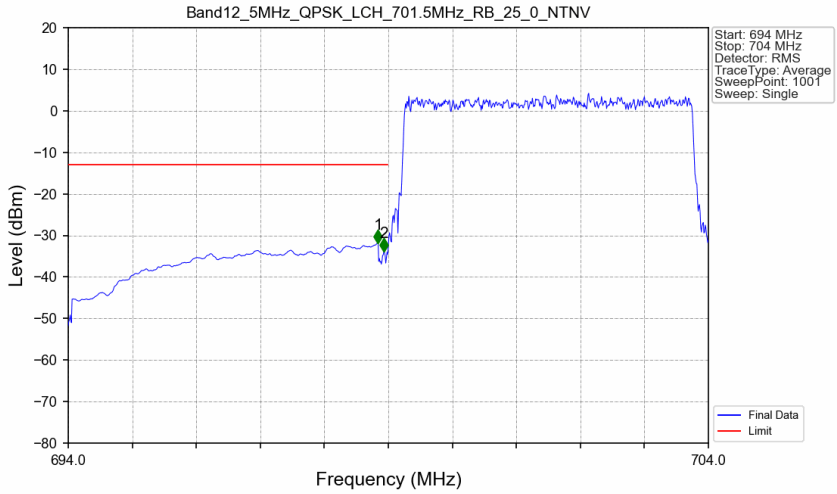


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-25.94	-13	Pass
698.9	699	0.03	/	2	698.990	-19.96	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

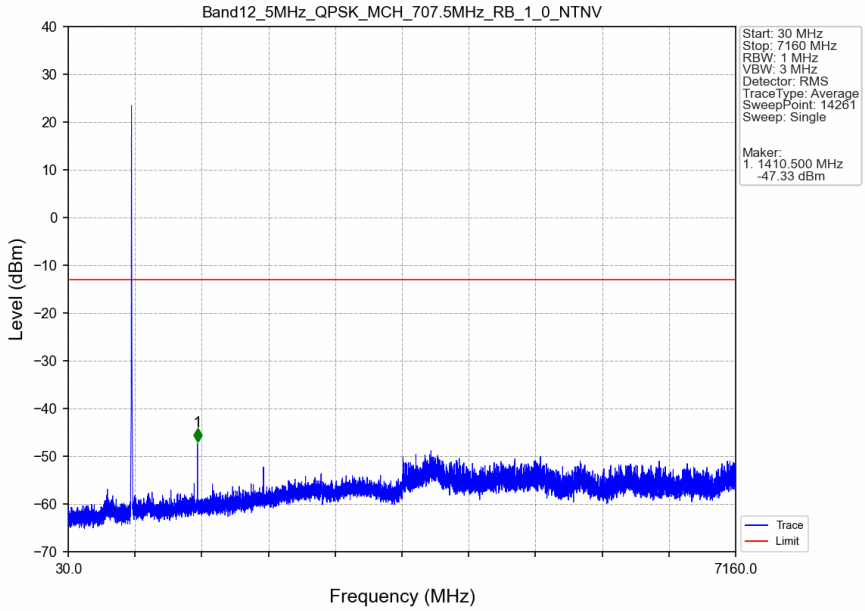


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

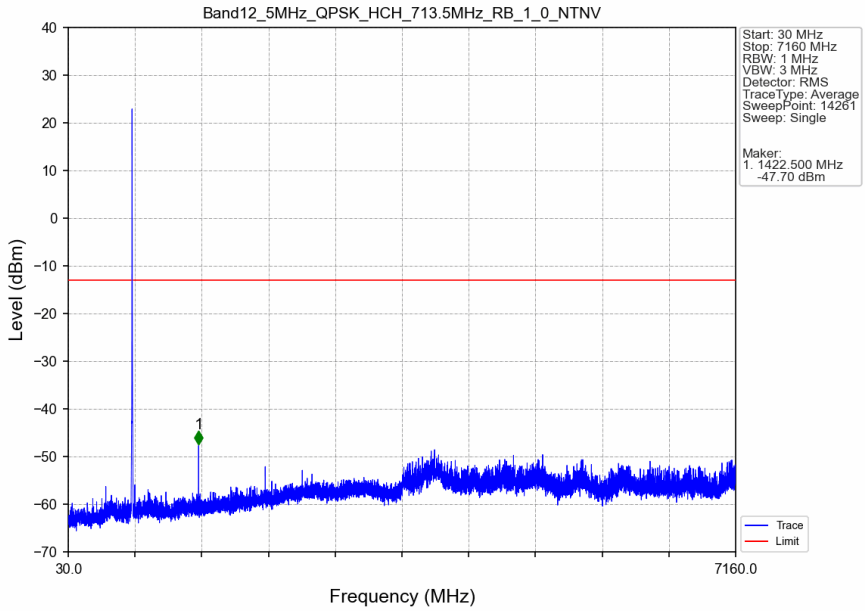


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-31.78	-13	Pass
698.9	699	0.03	/	2	698.930	-33.87	-13	Pass
699	704	0.03	/	/	/	/	/	/

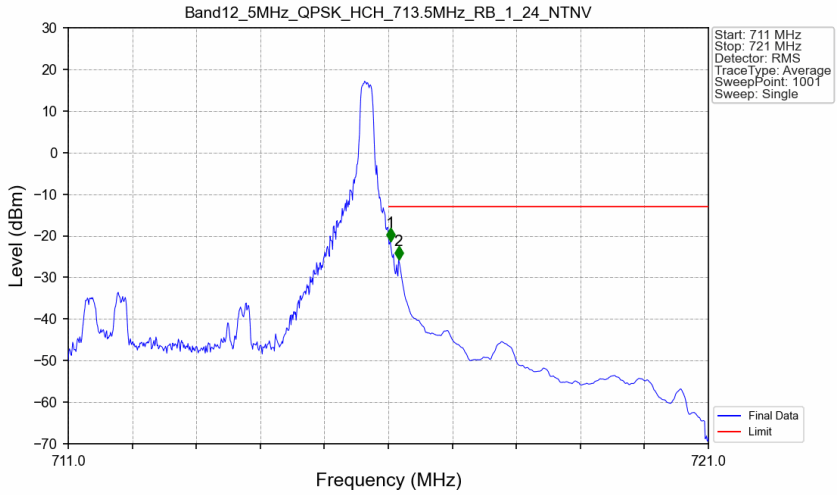
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

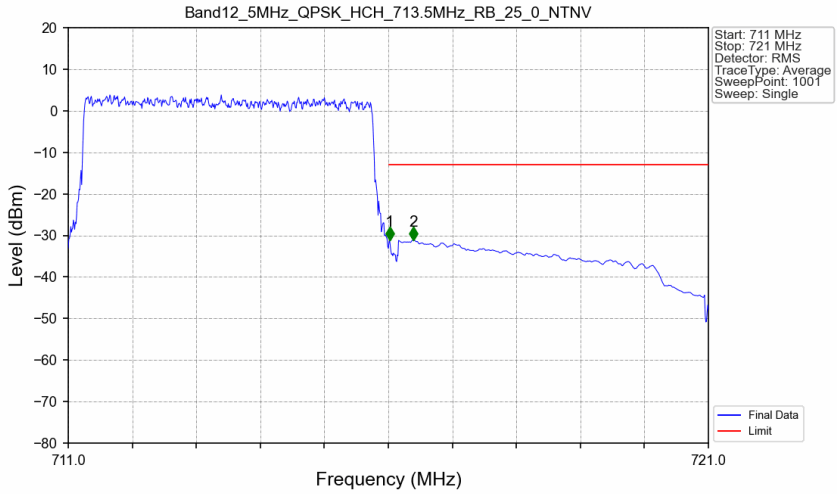


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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	-21.23	-13	Pass
716.1	721	0.1	CHP	2	716.160	-25.67	-13	Pass

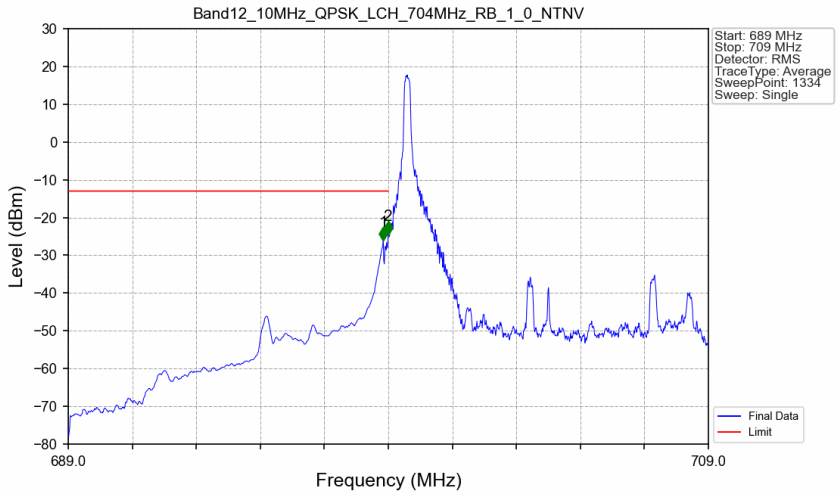
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	716.020	-31.13	-13	Pass
716.1	721	0.1	CHP	2	716.390	-31.12	-13	Pass

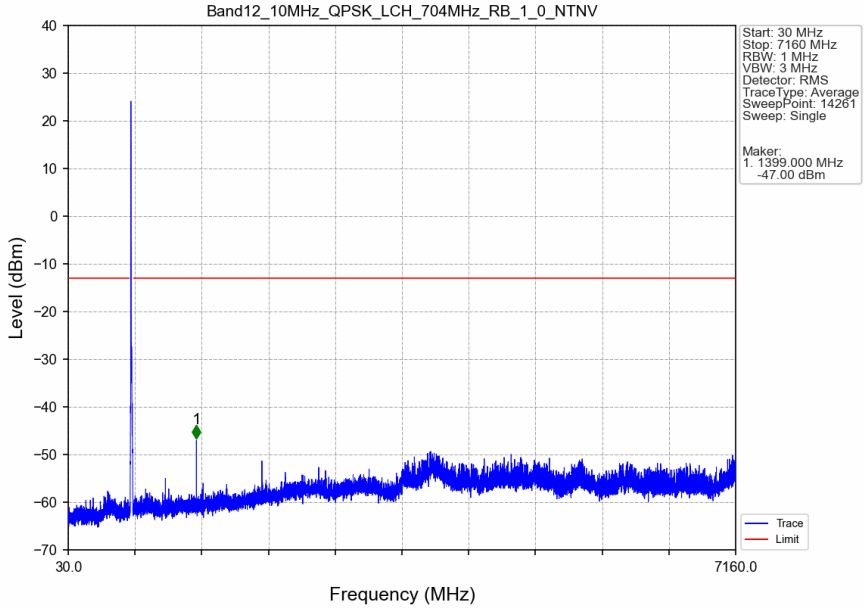
5.2.4 B12_10MHz

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

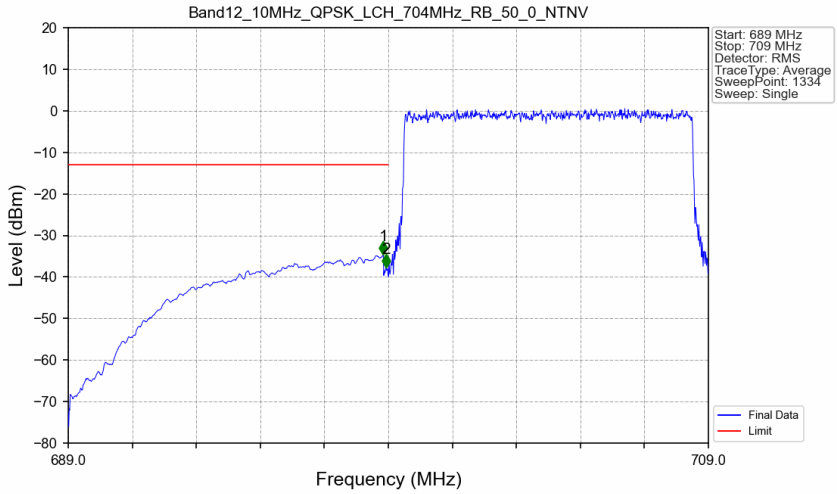


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-26.13	-13	Pass
698.9	699	0.03	/	2	698.992	-24.37	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

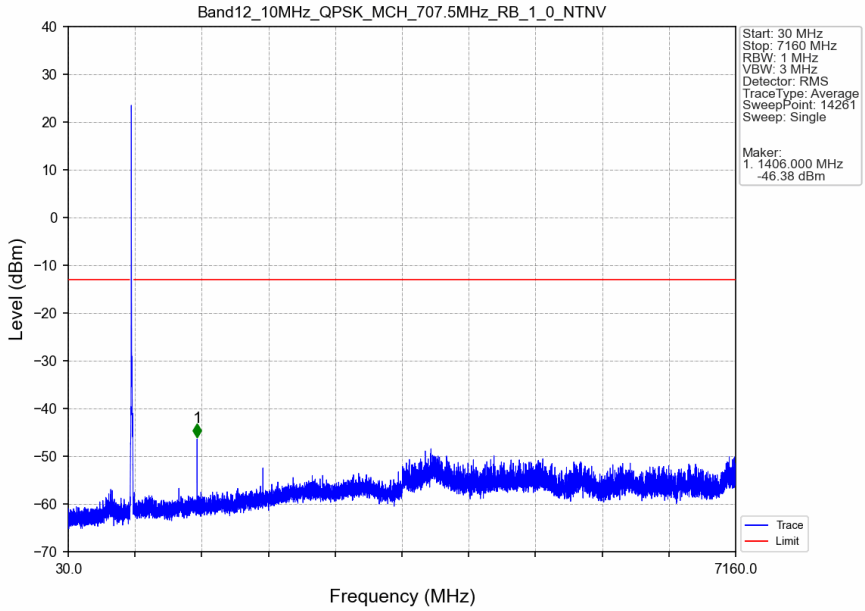


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

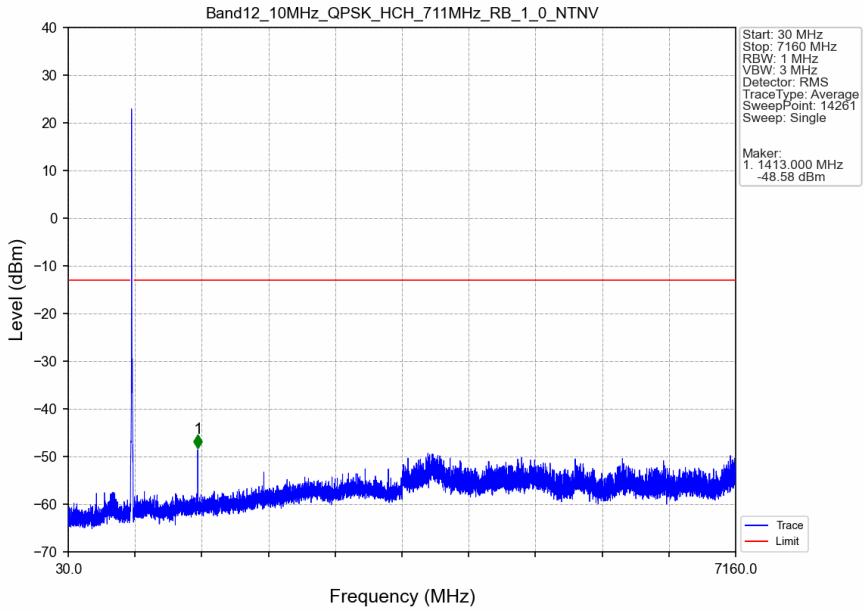


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-34.67	-13	Pass
698.9	699	0.03	/	2	698.932	-37.76	-13	Pass
699	709	0.03	/	/	/	/	/	/

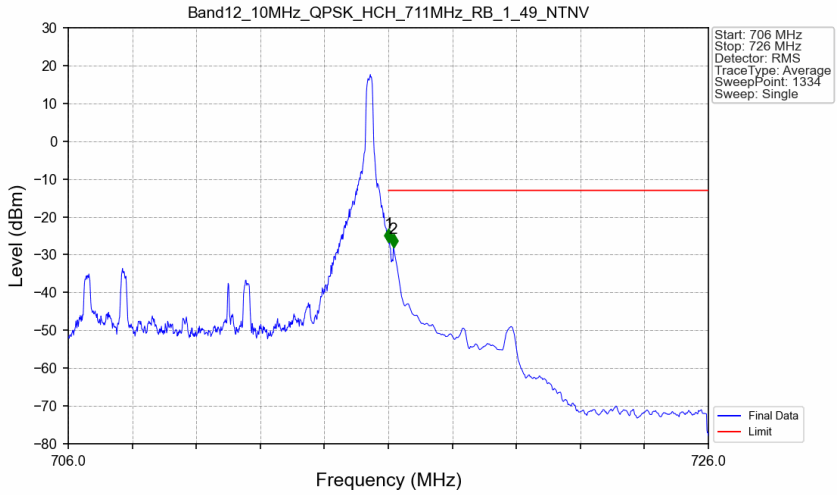
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

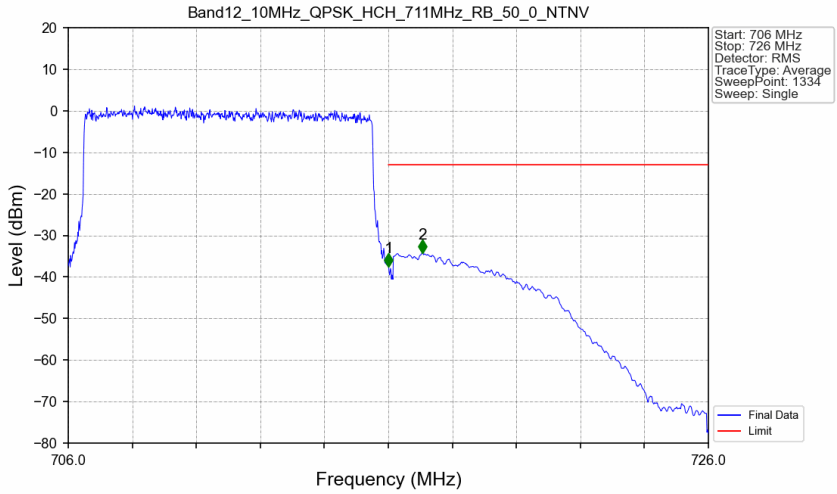


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-26.61	-13	Pass
716.1	726	0.1	CHP	2	716.158	-28.14	-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	-37.44	-13	Pass
716.1	726	0.1	CHP	2	717.073	-34.17	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	**EIRP (dBm)**	**Limit (dBm)**	**Over Limit (dB)**	**S.G. Power (dBm)**	**Cable Loss (dB)**	**Antenna Gain (dBi)**	**Polarization (H/V)**	**Result**
1399.0	-63.84	-13	-50.84	-66.61	2.47	5.24	Horizontal	Pass
2098.5	-69.5	-13	-56.5	-71.57	2.79	4.86	Horizontal	Pass
2798.0	-67.88	-13	-54.88	-71.24	3.12	6.48	Horizontal	Pass
1399.0	-68.89	-13	-55.89	-71.66	2.47	5.24	Vertical	Pass
2098.5	-69.82	-13	-56.82	-71.89	2.79	4.86	Vertical	Pass
2798.0	-68.09	-13	-55.09	-71.45	3.12	6.48	Vertical	Pass

LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	**EIRP (dBm)**	**Limit (dBm)**	**Over Limit (dB)**	**S.G. Power (dBm)**	**Cable Loss (dB)**	**Antenna Gain (dBi)**	**Polarization (H/V)**	**Result**
1406.0	-67.08	-13	-54.08	-69.88	2.48	5.28	Horizontal	Pass
2109.0	-68.63	-13	-55.63	-70.71	2.8	4.88	Horizontal	Pass
2812.0	-68.62	-13	-55.62	-72.01	3.12	6.51	Horizontal	Pass
1406.0	-70.18	-13	-57.18	-72.98	2.48	5.28	Vertical	Pass
2109.0	-70.14	-13	-57.14	-72.22	2.8	4.88	Vertical	Pass
2812.0	-68.15	-13	-55.15	-71.54	3.12	6.51	Vertical	Pass

LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	**EIRP (dBm)**	**Limit (dBm)**	**Over Limit (dB)**	**S.G. Power (dBm)**	**Cable Loss (dB)**	**Antenna Gain (dBi)**	**Polarization (H/V)**	**Result**
1413.0	-67.35	-13	-54.35	-70.19	2.49	5.33	Horizontal	Pass
2119.5	-69.04	-13	-56.04	-71.14	2.81	4.91	Horizontal	Pass
2826.0	-68.56	-13	-55.56	-71.97	3.13	6.54	Horizontal	Pass
1413.0	-66.5	-13	-53.5	-69.34	2.49	5.33	Vertical	Pass
2119.5	-69.66	-13	-56.66	-71.76	2.81	4.91	Vertical	Pass
2826.0	-68.52	-13	-55.52	-71.93	3.13	6.54	Vertical	Pass