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	21.59	-2.43	17.01	<=34.77	Pass
			2	21.47	-2.43	16.89	<=34.77	Pass
			5	21.64	-2.43	17.06	<=34.77	Pass
		3	0	21.63	-2.43	17.05	<=34.77	Pass
			2	21.56	-2.43	16.98	<=34.77	Pass
			3	21.58	-2.43	17.00	<=34.77	Pass
		6	0	20.58	-2.43	16.00	<=34.77	Pass
	707.5	1	0	21.59	-2.43	17.01	<=34.77	Pass
			2	21.65	-2.43	17.07	<=34.77	Pass
			5	21.65	-2.43	17.07	<=34.77	Pass
		3	0	21.51	-2.43	16.93	<=34.77	Pass
			2	21.54	-2.43	16.96	<=34.77	Pass
			3	21.53	-2.43	16.95	<=34.77	Pass
		6	0	20.62	-2.43	16.04	<=34.77	Pass
	715.3	1	0	21.52	-2.43	16.94	<=34.77	Pass
			2	21.54	-2.43	16.96	<=34.77	Pass
			5	21.64	-2.43	17.06	<=34.77	Pass
		3	0	21.34	-2.43	16.76	<=34.77	Pass
			2	21.53	-2.43	16.95	<=34.77	Pass
			3	21.45	-2.43	16.87	<=34.77	Pass
		6	0	20.59	-2.43	16.01	<=34.77	Pass
16QAM	699.7	1	0	20.86	-2.43	16.28	<=34.77	Pass
			2	20.82	-2.43	16.24	<=34.77	Pass
			5	20.80	-2.43	16.22	<=34.77	Pass
		3	0	20.50	-2.43	15.92	<=34.77	Pass
			2	20.56	-2.43	15.98	<=34.77	Pass
			3	20.41	-2.43	15.83	<=34.77	Pass
		6	0	19.62	-2.43	15.04	<=34.77	Pass
	707.5	1	0	20.76	-2.43	16.18	<=34.77	Pass
			2	20.81	-2.43	16.23	<=34.77	Pass
			5	20.87	-2.43	16.29	<=34.77	Pass
		3	0	20.41	-2.43	15.83	<=34.77	Pass
			2	20.37	-2.43	15.79	<=34.77	Pass
			3	20.55	-2.43	15.97	<=34.77	Pass
		6	0	19.73	-2.43	15.15	<=34.77	Pass
	715.3	1	0	20.54	-2.43	15.96	<=34.77	Pass
			2	20.64	-2.43	16.06	<=34.77	Pass
			5	20.72	-2.43	16.14	<=34.77	Pass
		3	0	20.34	-2.43	15.76	<=34.77	Pass
			2	20.34	-2.43	15.76	<=34.77	Pass
			3	20.58	-2.43	16.00	<=34.77	Pass
		6	0	19.68	-2.43	15.10	<=34.77	Pass
64QAM	699.7	1	0	19.77	-2.43	15.19	<=34.77	Pass
			2	19.78	-2.43	15.20	<=34.77	Pass
			5	19.46	-2.43	14.88	<=34.77	Pass
		3	0	19.65	-2.43	15.07	<=34.77	Pass
			2	19.73	-2.43	15.15	<=34.77	Pass
			3	19.70	-2.43	15.12	<=34.77	Pass
		6	0	18.51	-2.43	13.93	<=34.77	Pass

	707.5	1	0	19.62	-2.43	15.04	<=34.77	Pass
			2	19.66	-2.43	15.08	<=34.77	Pass
			5	19.59	-2.43	15.01	<=34.77	Pass
		3	0	19.69	-2.43	15.11	<=34.77	Pass
			2	19.66	-2.43	15.08	<=34.77	Pass
			3	19.69	-2.43	15.11	<=34.77	Pass
		6	0	18.48	-2.43	13.90	<=34.77	Pass
	715.3	1	0	19.61	-2.43	15.03	<=34.77	Pass
			2	19.76	-2.43	15.18	<=34.77	Pass
			5	19.73	-2.43	15.15	<=34.77	Pass
		3	0	19.74	-2.43	15.16	<=34.77	Pass
			2	19.74	-2.43	15.16	<=34.77	Pass
			3	19.77	-2.43	15.19	<=34.77	Pass
		6	0	18.43	-2.43	13.85	<=34.77	Pass
256QAM	699.7	1	0	16.57	-2.43	11.99	<=34.77	Pass
			2	16.63	-2.43	12.05	<=34.77	Pass
			5	16.66	-2.43	12.08	<=34.77	Pass
		3	0	16.64	-2.43	12.06	<=34.77	Pass
			2	16.54	-2.43	11.96	<=34.77	Pass
			3	16.70	-2.43	12.12	<=34.77	Pass
		6	0	16.57	-2.43	11.99	<=34.77	Pass
	707.5	1	0	16.63	-2.43	12.05	<=34.77	Pass
			2	16.74	-2.43	12.16	<=34.77	Pass
			5	16.65	-2.43	12.07	<=34.77	Pass
		3	0	16.63	-2.43	12.05	<=34.77	Pass
			2	16.72	-2.43	12.14	<=34.77	Pass
			3	16.56	-2.43	11.98	<=34.77	Pass
		6	0	16.51	-2.43	11.93	<=34.77	Pass
	715.3	1	0	16.68	-2.43	12.10	<=34.77	Pass
			2	16.66	-2.43	12.08	<=34.77	Pass
			5	16.65	-2.43	12.07	<=34.77	Pass
		3	0	16.65	-2.43	12.07	<=34.77	Pass
			2	16.67	-2.43	12.09	<=34.77	Pass
			3	16.63	-2.43	12.05	<=34.77	Pass
		6	0	16.45	-2.43	11.87	<=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	21.61	-2.43	17.03	<=34.77	Pass
			7	21.63	-2.43	17.05	<=34.77	Pass
			14	21.48	-2.43	16.90	<=34.77	Pass
		8	0	20.67	-2.43	16.09	<=34.77	Pass
			4	20.60	-2.43	16.02	<=34.77	Pass
			7	20.58	-2.43	16.00	<=34.77	Pass
		15	0	20.61	-2.43	16.03	<=34.77	Pass
	707.5	1	0	21.61	-2.43	17.03	<=34.77	Pass
			7	21.64	-2.43	17.06	<=34.77	Pass
			14	21.56	-2.43	16.98	<=34.77	Pass
		8	0	20.64	-2.43	16.06	<=34.77	Pass
			4	20.65	-2.43	16.07	<=34.77	Pass
			7	20.63	-2.43	16.05	<=34.77	Pass
		15	0	20.62	-2.43	16.04	<=34.77	Pass
	714.5	1	0	21.61	-2.43	17.03	<=34.77	Pass

			7	21.54	-2.43	16.96	<=34.77	Pass
			14	21.60	-2.43	17.02	<=34.77	Pass
		8	0	20.63	-2.43	16.05	<=34.77	Pass
			4	20.60	-2.43	16.02	<=34.77	Pass
			7	20.44	-2.43	15.86	<=34.77	Pass
		15	0	20.58	-2.43	16.00	<=34.77	Pass
16QAM	700.5	1	0	20.72	-2.43	16.14	<=34.77	Pass
			7	20.84	-2.43	16.26	<=34.77	Pass
			14	20.74	-2.43	16.16	<=34.77	Pass
		8	0	19.70	-2.43	15.12	<=34.77	Pass
			4	19.62	-2.43	15.04	<=34.77	Pass
			7	19.63	-2.43	15.05	<=34.77	Pass
		15	0	19.53	-2.43	14.95	<=34.77	Pass
	707.5	1	0	20.83	-2.43	16.25	<=34.77	Pass
			7	20.89	-2.43	16.31	<=34.77	Pass
			14	20.88	-2.43	16.30	<=34.77	Pass
		8	0	19.69	-2.43	15.11	<=34.77	Pass
			4	19.67	-2.43	15.09	<=34.77	Pass
			7	19.62	-2.43	15.04	<=34.77	Pass
		15	0	19.61	-2.43	15.03	<=34.77	Pass
	714.5	1	0	20.64	-2.43	16.06	<=34.77	Pass
			7	20.74	-2.43	16.16	<=34.77	Pass
			14	20.74	-2.43	16.16	<=34.77	Pass
		8	0	19.66	-2.43	15.08	<=34.77	Pass
			4	19.62	-2.43	15.04	<=34.77	Pass
			7	19.70	-2.43	15.12	<=34.77	Pass
		15	0	19.48	-2.43	14.90	<=34.77	Pass
64QAM	700.5	1	0	19.80	-2.43	15.22	<=34.77	Pass
			7	19.63	-2.43	15.05	<=34.77	Pass
			14	19.68	-2.43	15.10	<=34.77	Pass
		8	0	18.69	-2.43	14.11	<=34.77	Pass
			4	18.68	-2.43	14.10	<=34.77	Pass
			7	18.61	-2.43	14.03	<=34.77	Pass
		15	0	18.59	-2.43	14.01	<=34.77	Pass
	707.5	1	0	19.68	-2.43	15.10	<=34.77	Pass
			7	19.82	-2.43	15.24	<=34.77	Pass
			14	19.74	-2.43	15.16	<=34.77	Pass
		8	0	18.74	-2.43	14.16	<=34.77	Pass
			4	18.69	-2.43	14.11	<=34.77	Pass
			7	18.67	-2.43	14.09	<=34.77	Pass
		15	0	18.62	-2.43	14.04	<=34.77	Pass
	714.5	1	0	19.78	-2.43	15.20	<=34.77	Pass
			7	19.74	-2.43	15.16	<=34.77	Pass
			14	19.72	-2.43	15.14	<=34.77	Pass
		8	0	18.66	-2.43	14.08	<=34.77	Pass
			4	18.55	-2.43	13.97	<=34.77	Pass
			7	18.63	-2.43	14.05	<=34.77	Pass
		15	0	18.56	-2.43	13.98	<=34.77	Pass
256QAM	700.5	1	0	16.71	-2.43	12.13	<=34.77	Pass
			7	16.64	-2.43	12.06	<=34.77	Pass
			14	16.58	-2.43	12.00	<=34.77	Pass
		8	0	16.55	-2.43	11.97	<=34.77	Pass
			4	16.57	-2.43	11.99	<=34.77	Pass
			7	16.41	-2.43	11.83	<=34.77	Pass
		15	0	16.56	-2.43	11.98	<=34.77	Pass
	707.5	1	0	16.72	-2.43	12.14	<=34.77	Pass
			7	16.63	-2.43	12.05	<=34.77	Pass
			14	16.59	-2.43	12.01	<=34.77	Pass
		8	0	16.63	-2.43	12.05	<=34.77	Pass

			4	16.56	-2.43	11.98	<=34.77	Pass
			7	16.63	-2.43	12.05	<=34.77	Pass
		15	0	16.60	-2.43	12.02	<=34.77	Pass
	714.5	1	0	16.71	-2.43	12.13	<=34.77	Pass
			7	16.55	-2.43	11.97	<=34.77	Pass
			14	16.67	-2.43	12.09	<=34.77	Pass
		8	0	16.55	-2.43	11.97	<=34.77	Pass
			4	16.52	-2.43	11.94	<=34.77	Pass
			7	16.61	-2.43	12.03	<=34.77	Pass
		15	0	16.47	-2.43	11.89	<=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	21.70	-2.43	17.12	<=34.77	Pass
			13	21.62	-2.43	17.04	<=34.77	Pass
			24	21.67	-2.43	17.09	<=34.77	Pass
		12	0	20.64	-2.43	16.06	<=34.77	Pass
			6	20.64	-2.43	16.06	<=34.77	Pass
			13	20.66	-2.43	16.08	<=34.77	Pass
		25	0	20.65	-2.43	16.07	<=34.77	Pass
	707.5	1	0	21.68	-2.43	17.10	<=34.77	Pass
			13	21.65	-2.43	17.07	<=34.77	Pass
			24	21.66	-2.43	17.08	<=34.77	Pass
		12	0	20.71	-2.43	16.13	<=34.77	Pass
			6	20.70	-2.43	16.12	<=34.77	Pass
			13	20.67	-2.43	16.09	<=34.77	Pass
		25	0	20.72	-2.43	16.14	<=34.77	Pass
	713.5	1	0	21.71	-2.43	17.13	<=34.77	Pass
			13	21.33	-2.43	16.75	<=34.77	Pass
			24	21.66	-2.43	17.08	<=34.77	Pass
		12	0	20.67	-2.43	16.09	<=34.77	Pass
			6	20.66	-2.43	16.08	<=34.77	Pass
			13	20.65	-2.43	16.07	<=34.77	Pass
		25	0	20.66	-2.43	16.08	<=34.77	Pass
16QAM	701.5	1	0	21.00	-2.43	16.42	<=34.77	Pass
			13	20.84	-2.43	16.26	<=34.77	Pass
			24	20.72	-2.43	16.14	<=34.77	Pass
		12	0	19.66	-2.43	15.08	<=34.77	Pass
			6	19.64	-2.43	15.06	<=34.77	Pass
			13	19.70	-2.43	15.12	<=34.77	Pass
		25	0	19.56	-2.43	14.98	<=34.77	Pass
	707.5	1	0	20.93	-2.43	16.35	<=34.77	Pass
			13	20.81	-2.43	16.23	<=34.77	Pass
			24	20.78	-2.43	16.20	<=34.77	Pass
		12	0	19.71	-2.43	15.13	<=34.77	Pass
			6	19.70	-2.43	15.12	<=34.77	Pass
			13	19.59	-2.43	15.01	<=34.77	Pass
		25	0	19.73	-2.43	15.15	<=34.77	Pass
	713.5	1	0	20.92	-2.43	16.34	<=34.77	Pass
			13	20.80	-2.43	16.22	<=34.77	Pass
			24	20.57	-2.43	15.99	<=34.77	Pass
		12	0	19.67	-2.43	15.09	<=34.77	Pass
			6	19.63	-2.43	15.05	<=34.77	Pass

			13	19.67	-2.43	15.09	<=34.77	Pass
		25	0	19.56	-2.43	14.98	<=34.77	Pass
64QAM	701.5	1	0	19.67	-2.43	15.09	<=34.77	Pass
			13	19.49	-2.43	14.91	<=34.77	Pass
			24	19.75	-2.43	15.17	<=34.77	Pass
		12	0	18.67	-2.43	14.09	<=34.77	Pass
			6	18.59	-2.43	14.01	<=34.77	Pass
			13	18.60	-2.43	14.02	<=34.77	Pass
		25	0	18.62	-2.43	14.04	<=34.77	Pass
	707.5	1	0	19.77	-2.43	15.19	<=34.77	Pass
			13	19.60	-2.43	15.02	<=34.77	Pass
			24	19.65	-2.43	15.07	<=34.77	Pass
		12	0	18.78	-2.43	14.20	<=34.77	Pass
			6	18.73	-2.43	14.15	<=34.77	Pass
			13	18.62	-2.43	14.04	<=34.77	Pass
		25	0	18.70	-2.43	14.12	<=34.77	Pass
	713.5	1	0	19.43	-2.43	14.85	<=34.77	Pass
			13	19.65	-2.43	15.07	<=34.77	Pass
			24	19.81	-2.43	15.23	<=34.77	Pass
		12	0	18.69	-2.43	14.11	<=34.77	Pass
			6	18.71	-2.43	14.13	<=34.77	Pass
			13	18.57	-2.43	13.99	<=34.77	Pass
		25	0	18.60	-2.43	14.02	<=34.77	Pass
256QAM	701.5	1	0	16.74	-2.43	12.16	<=34.77	Pass
			13	16.63	-2.43	12.05	<=34.77	Pass
			24	16.68	-2.43	12.10	<=34.77	Pass
		12	0	16.63	-2.43	12.05	<=34.77	Pass
			6	16.63	-2.43	12.05	<=34.77	Pass
			13	16.62	-2.43	12.04	<=34.77	Pass
		25	0	16.63	-2.43	12.05	<=34.77	Pass
	707.5	1	0	16.63	-2.43	12.05	<=34.77	Pass
			13	16.54	-2.43	11.96	<=34.77	Pass
			24	16.63	-2.43	12.05	<=34.77	Pass
		12	0	16.66	-2.43	12.08	<=34.77	Pass
			6	16.67	-2.43	12.09	<=34.77	Pass
			13	16.59	-2.43	12.01	<=34.77	Pass
		25	0	16.65	-2.43	12.07	<=34.77	Pass
	713.5	1	0	16.64	-2.43	12.06	<=34.77	Pass
			13	16.73	-2.43	12.15	<=34.77	Pass
			24	16.66	-2.43	12.08	<=34.77	Pass
		12	0	16.64	-2.43	12.06	<=34.77	Pass
			6	16.66	-2.43	12.08	<=34.77	Pass
			13	16.58	-2.43	12.00	<=34.77	Pass
		25	0	16.61	-2.43	12.03	<=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	21.53	-2.43	16.95	<=34.77	Pass
			25	21.63	-2.43	17.05	<=34.77	Pass
			49	21.64	-2.43	17.06	<=34.77	Pass
		25	0	20.62	-2.43	16.04	<=34.77	Pass
			13	20.69	-2.43	16.11	<=34.77	Pass
			25	20.64	-2.43	16.06	<=34.77	Pass

		50	0	20.64	-2.43	16.06	<=34.77	Pass
	707.5	1	0	21.44	-2.43	16.86	<=34.77	Pass
			25	21.77	-2.43	17.19	<=34.77	Pass
			49	21.64	-2.43	17.06	<=34.77	Pass
		25	0	20.72	-2.43	16.14	<=34.77	Pass
			13	20.71	-2.43	16.13	<=34.77	Pass
			25	20.67	-2.43	16.09	<=34.77	Pass
		50	0	20.67	-2.43	16.09	<=34.77	Pass
	711	1	0	21.64	-2.43	17.06	<=34.77	Pass
			25	21.73	-2.43	17.15	<=34.77	Pass
			49	21.62	-2.43	17.04	<=34.77	Pass
		25	0	20.68	-2.43	16.10	<=34.77	Pass
			13	20.63	-2.43	16.05	<=34.77	Pass
			25	20.60	-2.43	16.02	<=34.77	Pass
		50	0	20.64	-2.43	16.06	<=34.77	Pass
16QAM	704	1	0	20.73	-2.43	16.15	<=34.77	Pass
			25	21.00	-2.43	16.42	<=34.77	Pass
			49	20.98	-2.43	16.40	<=34.77	Pass
		25	0	19.58	-2.43	15.00	<=34.77	Pass
			13	19.46	-2.43	14.88	<=34.77	Pass
			25	19.65	-2.43	15.07	<=34.77	Pass
		50	0	19.62	-2.43	15.04	<=34.77	Pass
	707.5	1	0	20.65	-2.43	16.07	<=34.77	Pass
			25	20.90	-2.43	16.32	<=34.77	Pass
			49	20.71	-2.43	16.13	<=34.77	Pass
		25	0	19.69	-2.43	15.11	<=34.77	Pass
			13	19.42	-2.43	14.84	<=34.77	Pass
			25	19.66	-2.43	15.08	<=34.77	Pass
		50	0	19.63	-2.43	15.05	<=34.77	Pass
	711	1	0	20.99	-2.43	16.41	<=34.77	Pass
			25	21.01	-2.43	16.43	<=34.77	Pass
			49	20.83	-2.43	16.25	<=34.77	Pass
		25	0	19.59	-2.43	15.01	<=34.77	Pass
			13	19.61	-2.43	15.03	<=34.77	Pass
			25	19.58	-2.43	15.00	<=34.77	Pass
		50	0	19.58	-2.43	15.00	<=34.77	Pass
64QAM	704	1	0	19.83	-2.43	15.25	<=34.77	Pass
			25	19.86	-2.43	15.28	<=34.77	Pass
			49	19.80	-2.43	15.22	<=34.77	Pass
		25	0	18.59	-2.43	14.01	<=34.77	Pass
			13	18.66	-2.43	14.08	<=34.77	Pass
			25	18.64	-2.43	14.06	<=34.77	Pass
		50	0	18.63	-2.43	14.05	<=34.77	Pass
	707.5	1	0	19.47	-2.43	14.89	<=34.77	Pass
			25	19.62	-2.43	15.04	<=34.77	Pass
			49	19.70	-2.43	15.12	<=34.77	Pass
		25	0	18.70	-2.43	14.12	<=34.77	Pass
			13	18.68	-2.43	14.10	<=34.77	Pass
			25	18.66	-2.43	14.08	<=34.77	Pass
		50	0	18.64	-2.43	14.06	<=34.77	Pass
	711	1	0	19.57	-2.43	14.99	<=34.77	Pass
			25	19.83	-2.43	15.25	<=34.77	Pass
			49	19.74	-2.43	15.16	<=34.77	Pass
		25	0	18.61	-2.43	14.03	<=34.77	Pass
			13	18.63	-2.43	14.05	<=34.77	Pass
			25	18.60	-2.43	14.02	<=34.77	Pass
		50	0	18.60	-2.43	14.02	<=34.77	Pass
256QAM	704	1	0	16.73	-2.43	12.15	<=34.77	Pass
			25	16.68	-2.43	12.10	<=34.77	Pass

			49	16.63	-2.43	12.05	<=34.77	Pass
		25	0	16.59	-2.43	12.01	<=34.77	Pass
			13	16.66	-2.43	12.08	<=34.77	Pass
			25	16.60	-2.43	12.02	<=34.77	Pass
		50	0	16.62	-2.43	12.04	<=34.77	Pass
	707.5	1	0	16.62	-2.43	12.04	<=34.77	Pass
			25	16.79	-2.43	12.21	<=34.77	Pass
			49	16.69	-2.43	12.11	<=34.77	Pass
		25	0	16.69	-2.43	12.11	<=34.77	Pass
			13	16.65	-2.43	12.07	<=34.77	Pass
			25	16.63	-2.43	12.05	<=34.77	Pass
		50	0	16.63	-2.43	12.05	<=34.77	Pass
	711	1	0	16.67	-2.43	12.09	<=34.77	Pass
			25	16.70	-2.43	12.12	<=34.77	Pass
			49	16.72	-2.43	12.14	<=34.77	Pass
		25	0	16.58	-2.43	12.00	<=34.77	Pass
			13	16.61	-2.43	12.03	<=34.77	Pass
			25	16.55	-2.43	11.97	<=34.77	Pass
		50	0	16.58	-2.43	12.00	<=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	3.4	0.100	0.0001	-2.5 to 2.5	Pass
					3.8	-2.700	-0.0038	-2.5 to 2.5	Pass
					4.45	-3.200	-0.0045	-2.5 to 2.5	Pass
				-30	3.8	-3.600	-0.0051	-2.5 to 2.5	Pass
				-20	3.8	-0.400	-0.0006	-2.5 to 2.5	Pass
				-10	3.8	-4.300	-0.0061	-2.5 to 2.5	Pass
				0	3.8	-4.000	-0.0057	-2.5 to 2.5	Pass
				10	3.8	-2.200	-0.0031	-2.5 to 2.5	Pass
				30	3.8	0.100	0.0001	-2.5 to 2.5	Pass
				40	3.8	-1.200	-0.0017	-2.5 to 2.5	Pass
				50	3.8	-2.200	-0.0031	-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	1.109	/	Pass
	16QAM	707.5	6	0	1.113	/	Pass
3	QPSK	707.5	15	0	2.718	/	Pass
	16QAM	707.5	15	0	2.722	/	Pass
5	QPSK	707.5	25	0	4.522	/	Pass
	16QAM	707.5	25	0	4.542	/	Pass
10	QPSK	707.5	50	0	9.081	/	Pass
	16QAM	707.5	50	0	9.053	/	Pass

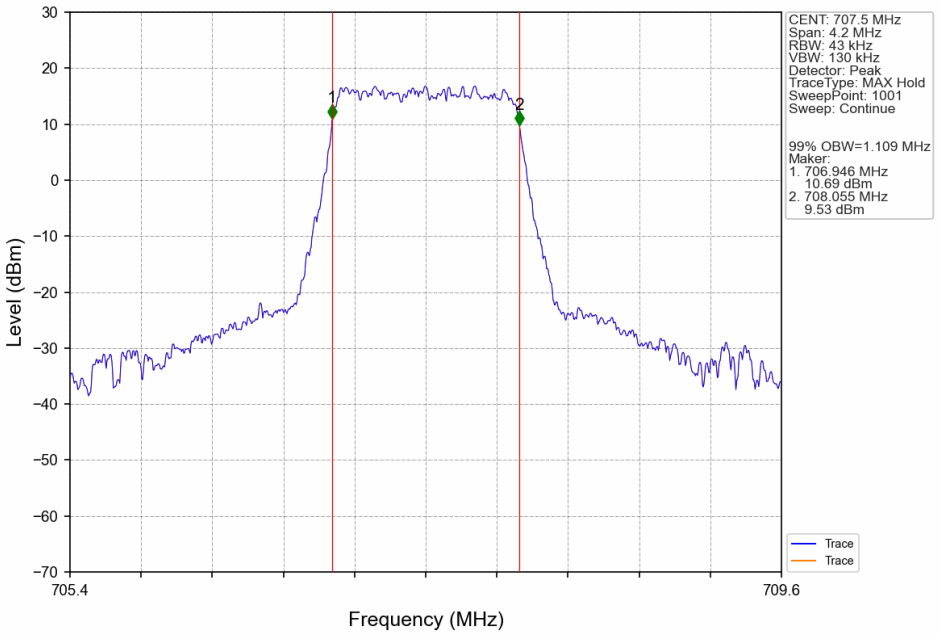
3.1.2 Band12_XDB

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	1.327	/	Pass
	16QAM	707.5	6	0	1.321	/	Pass
3	QPSK	707.5	15	0	3.010	/	Pass
	16QAM	707.5	15	0	3.022	/	Pass
5	QPSK	707.5	25	0	5.064	/	Pass
	16QAM	707.5	25	0	5.013	/	Pass
10	QPSK	707.5	50	0	9.992	/	Pass
	16QAM	707.5	50	0	9.873	/	Pass

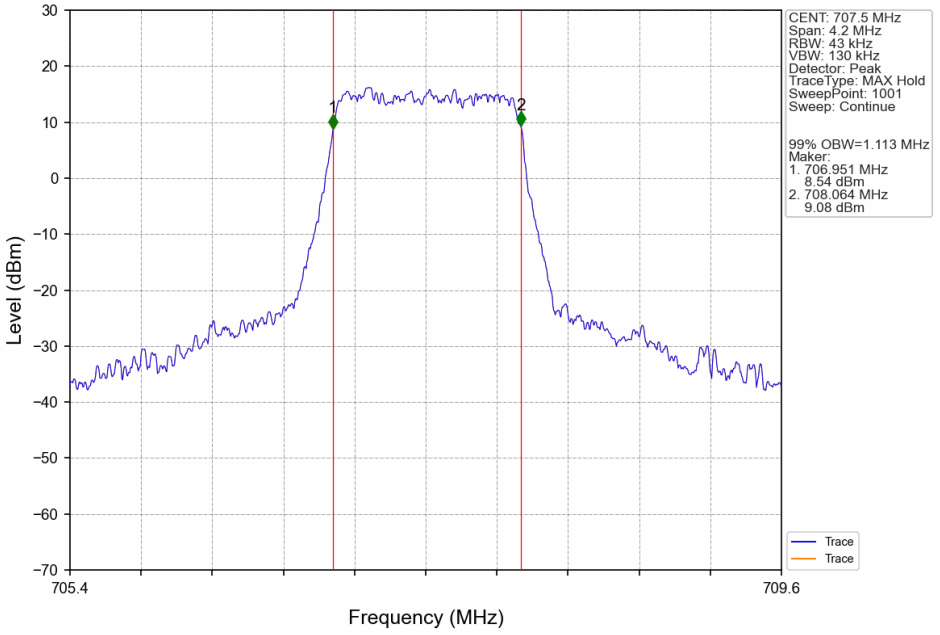
3.2 Test Graph

3.2.1 Band12_OBW

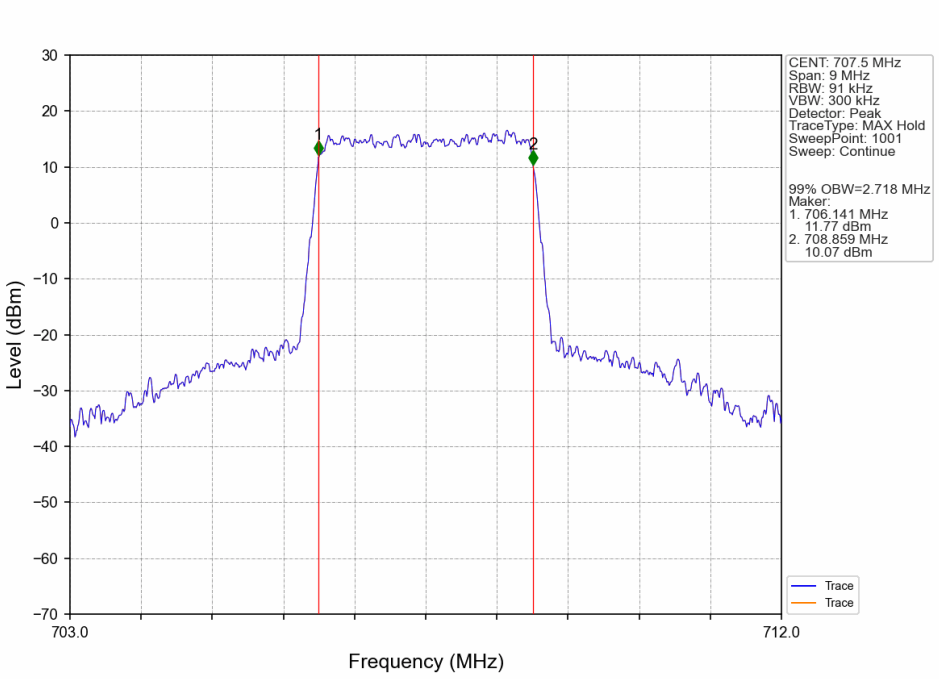
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



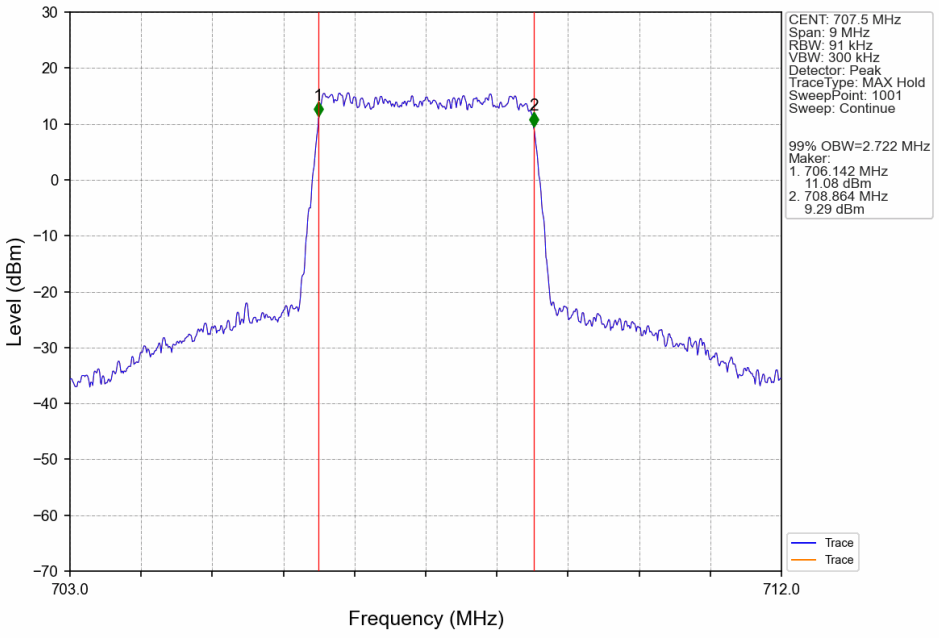
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



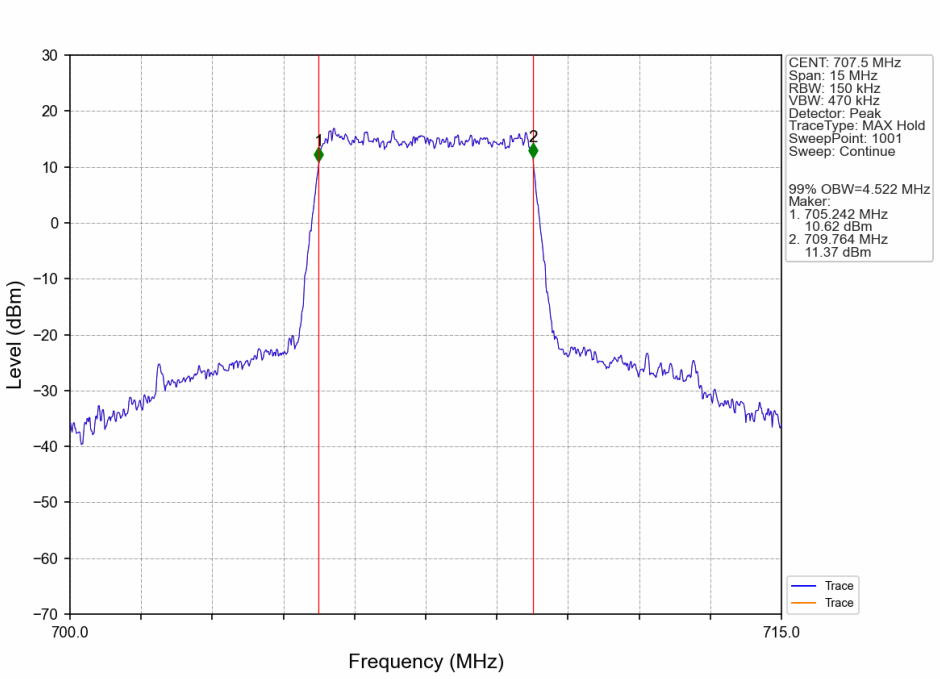
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



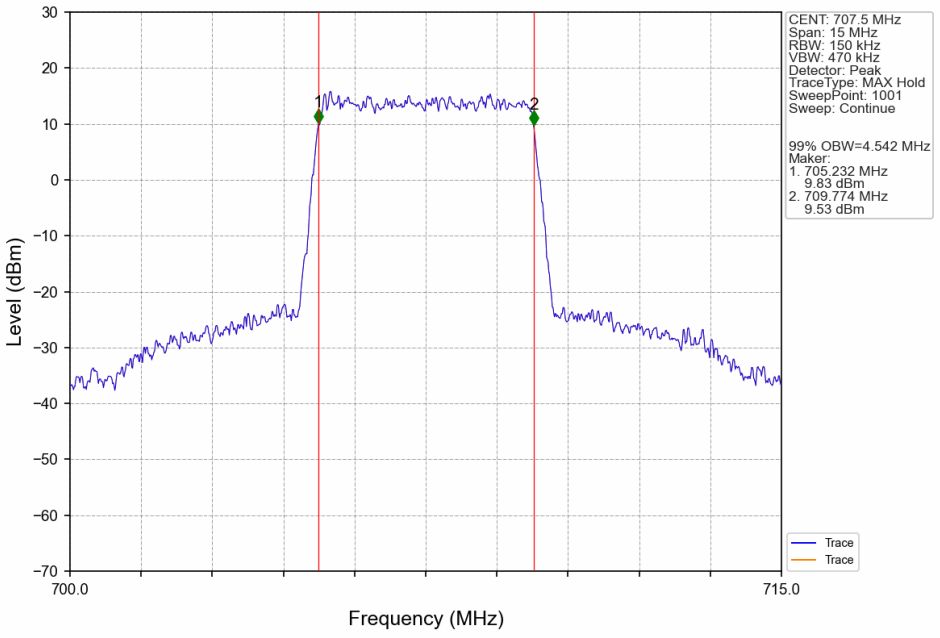
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



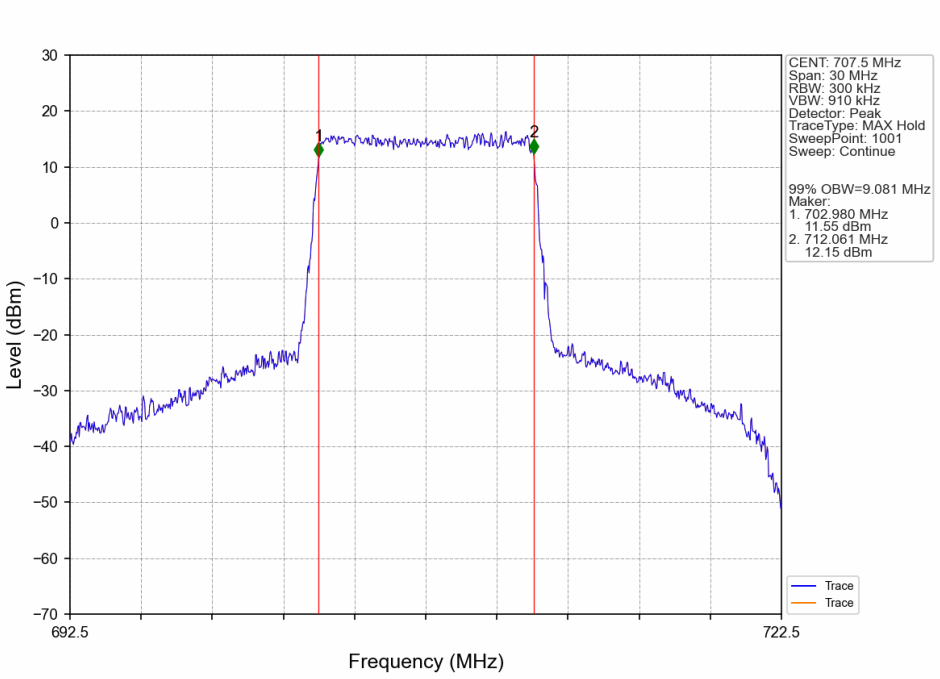
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



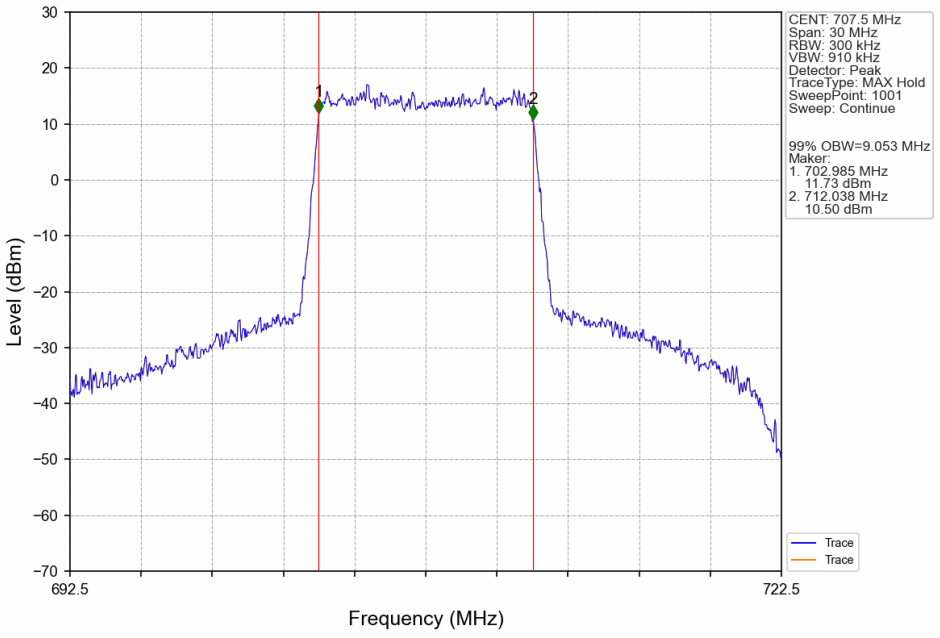
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



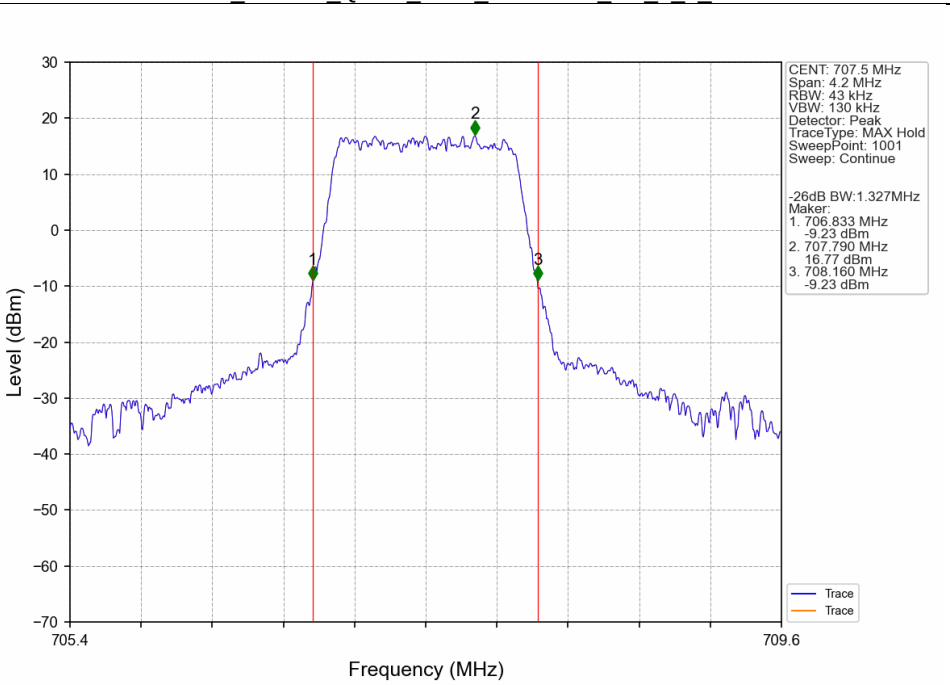
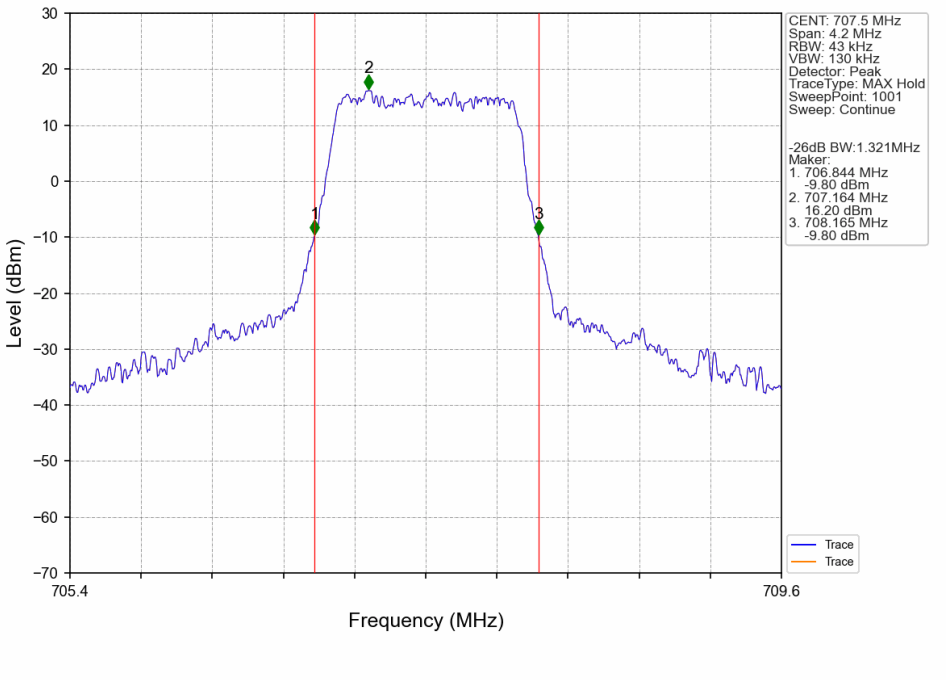
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



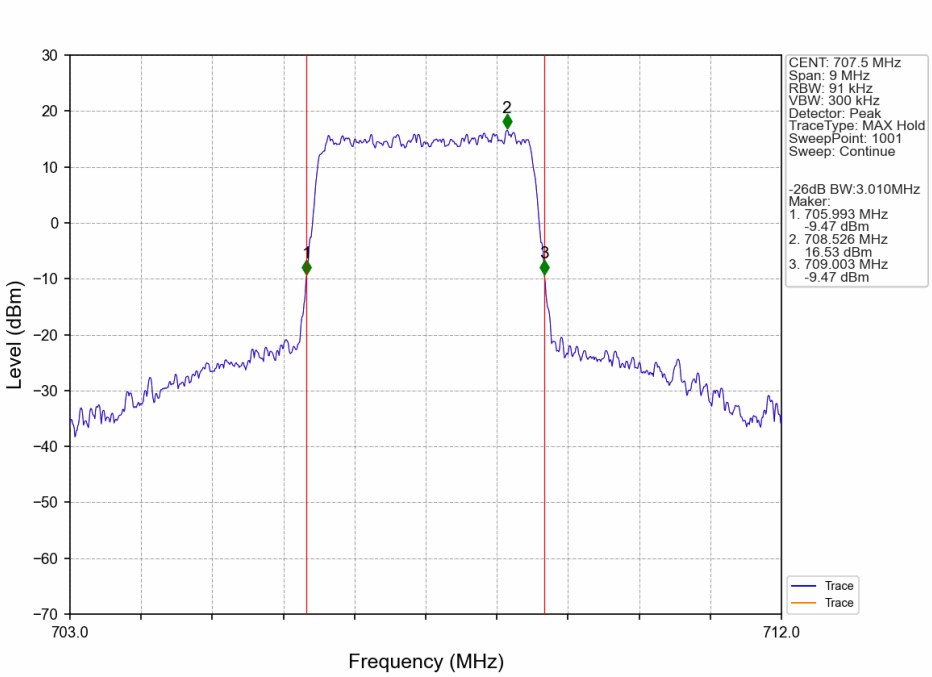
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



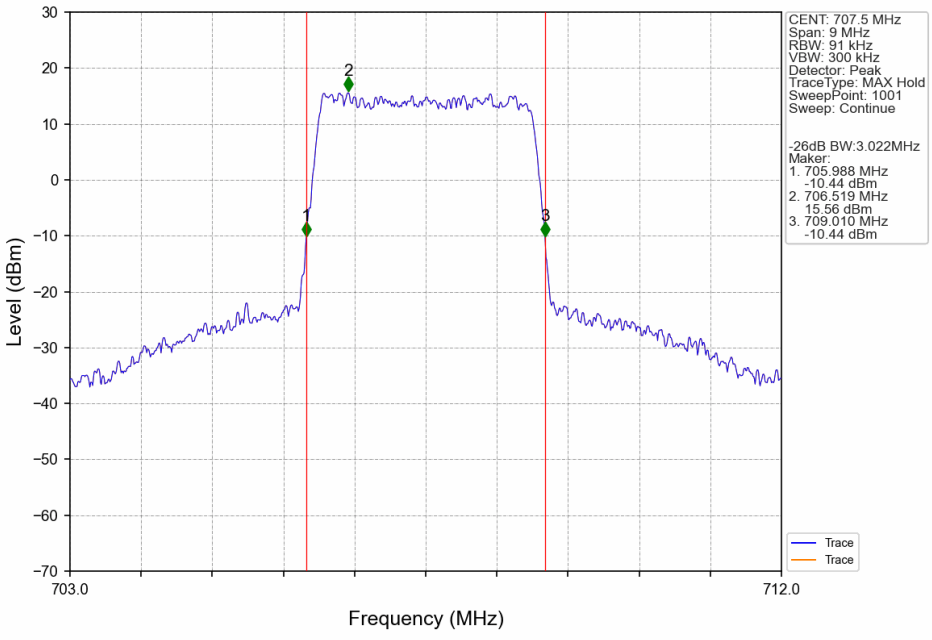
3.2.2 Band12_XDB

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV


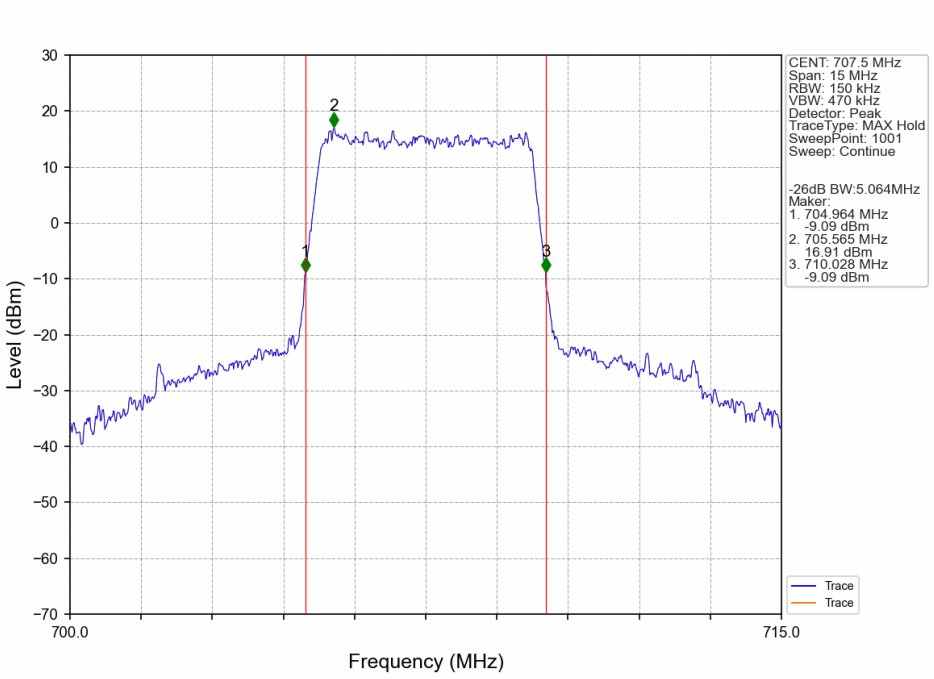
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



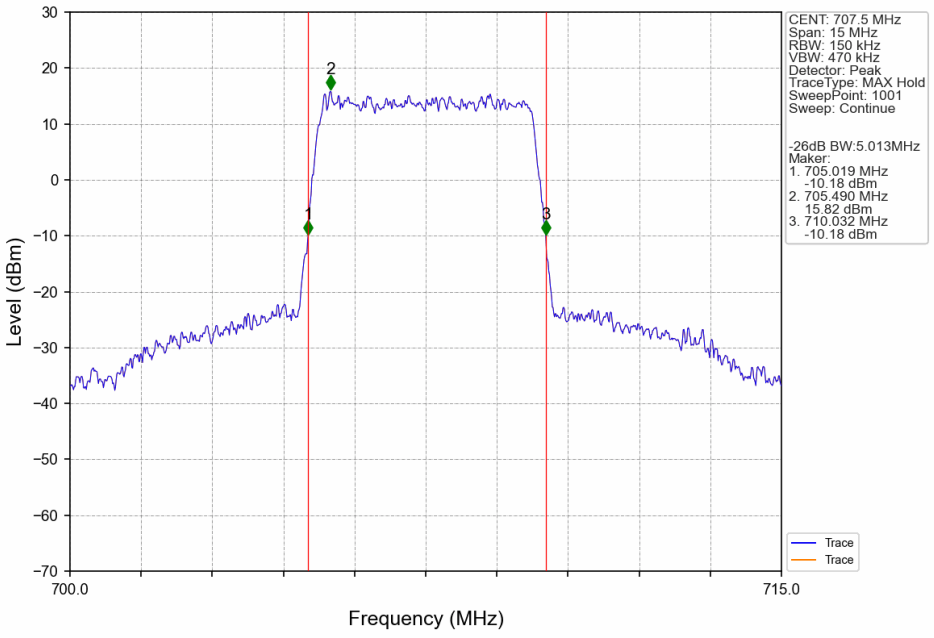
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



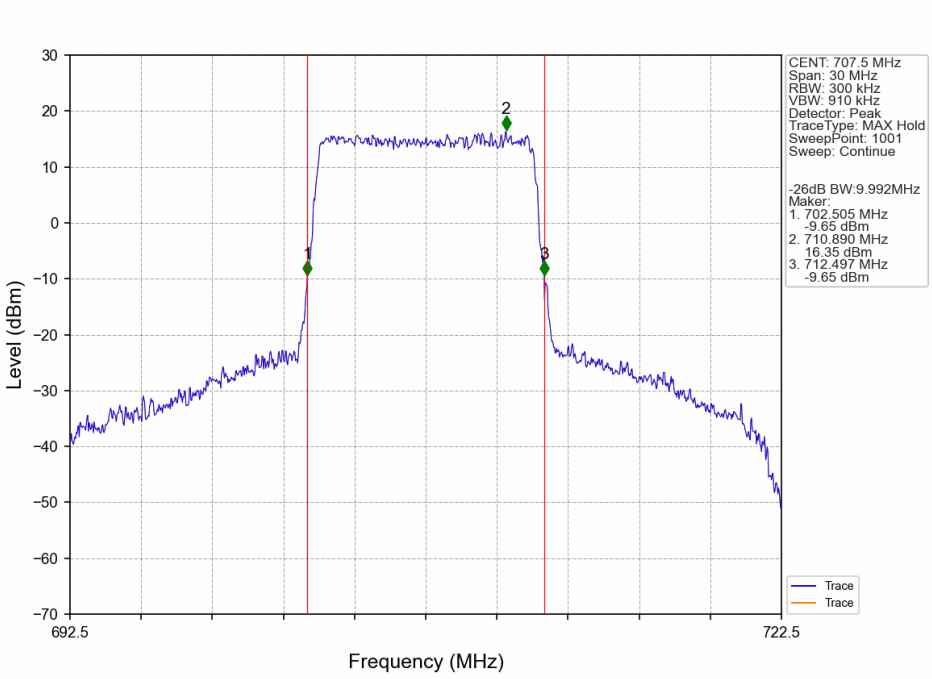
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



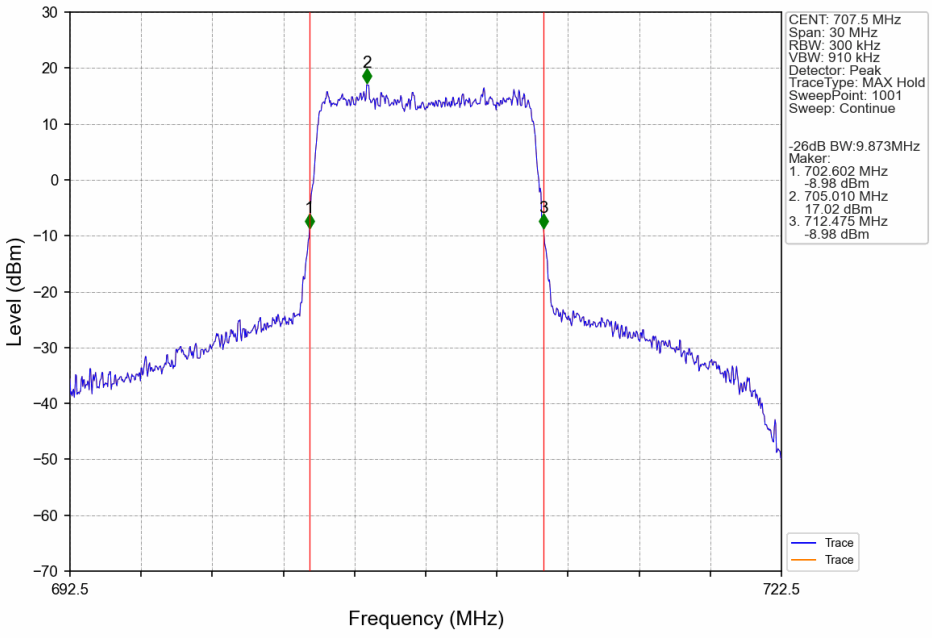
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



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

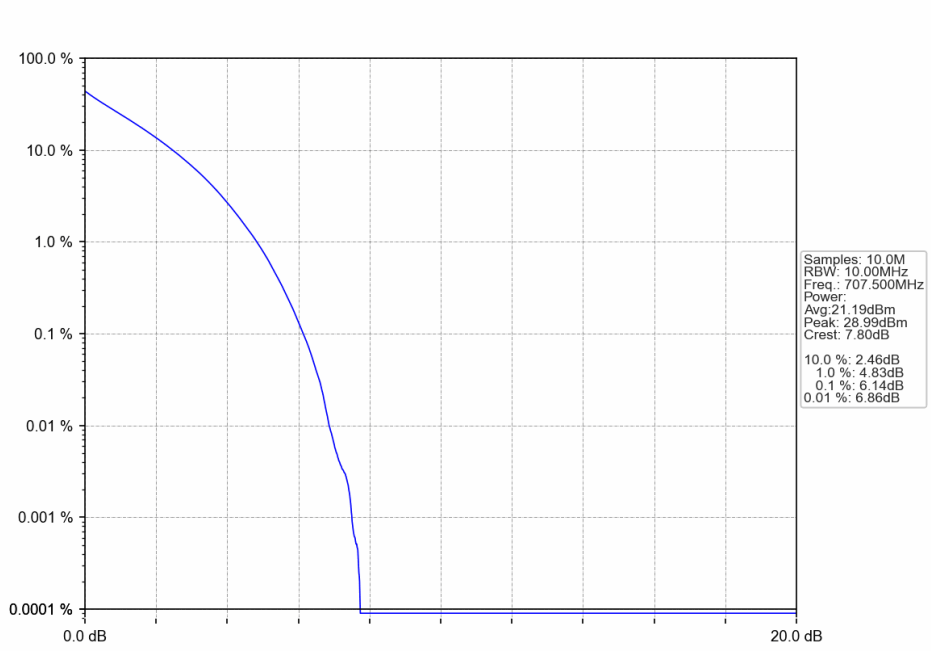
4.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	6.14	<=13	Pass
16QAM	707.5	50	0	6.71	<=13	Pass
64QAM	707.5	50	0	6.80	<=13	Pass
256QAM	707.5	50	0	6.73	<=13	Pass

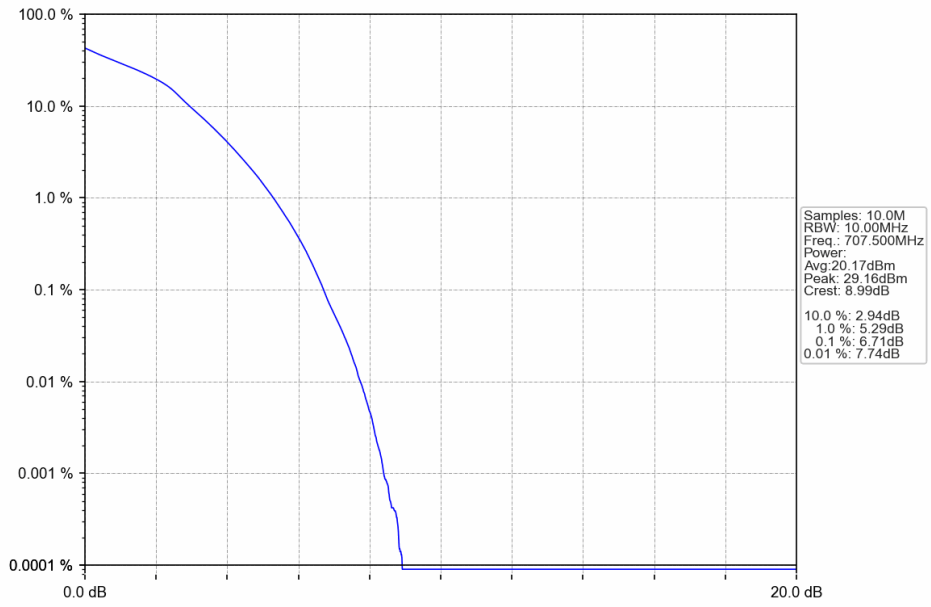
4.2 Test Graph

4.2.1 B12_10MHz

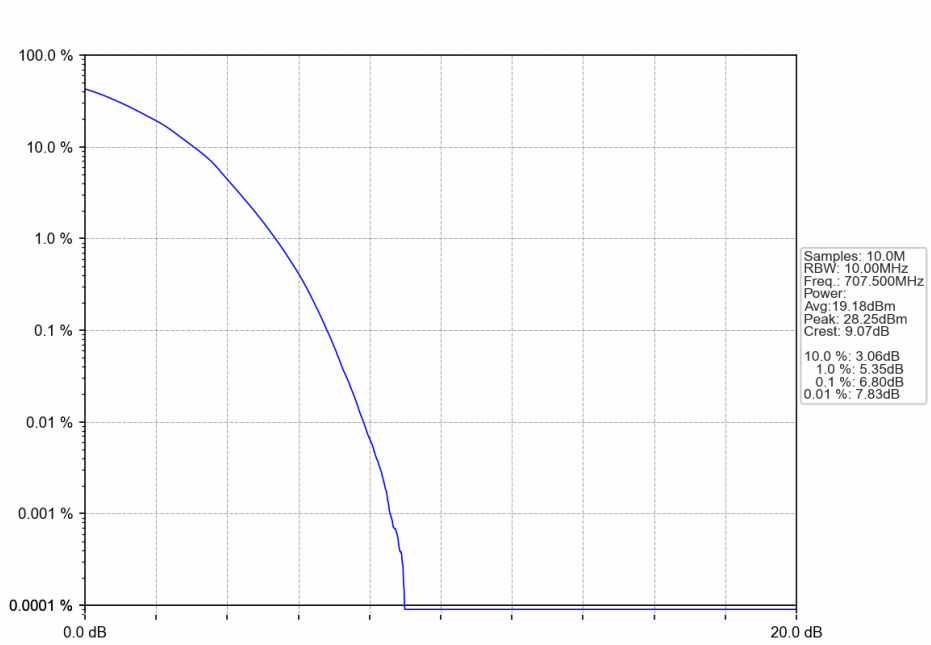
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



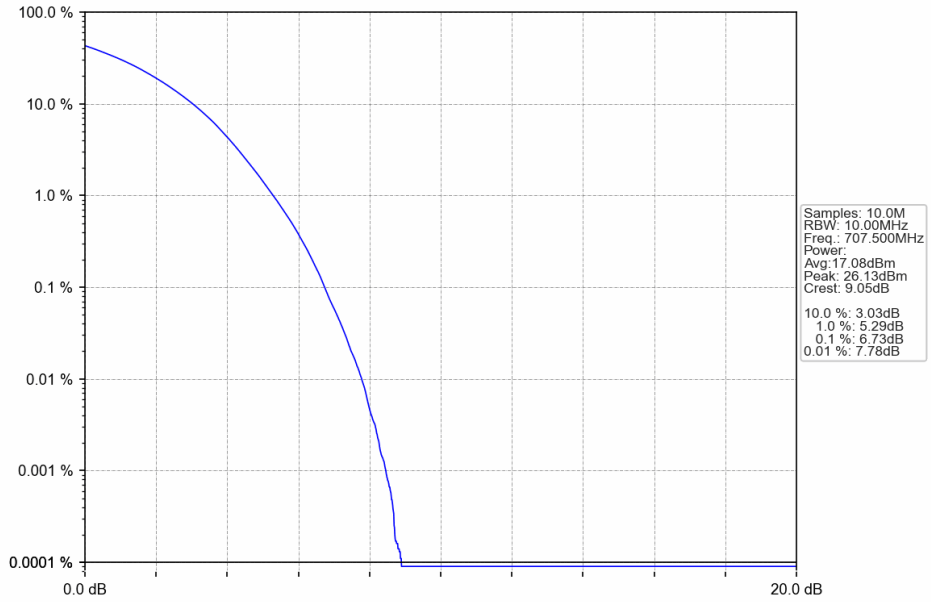
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



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

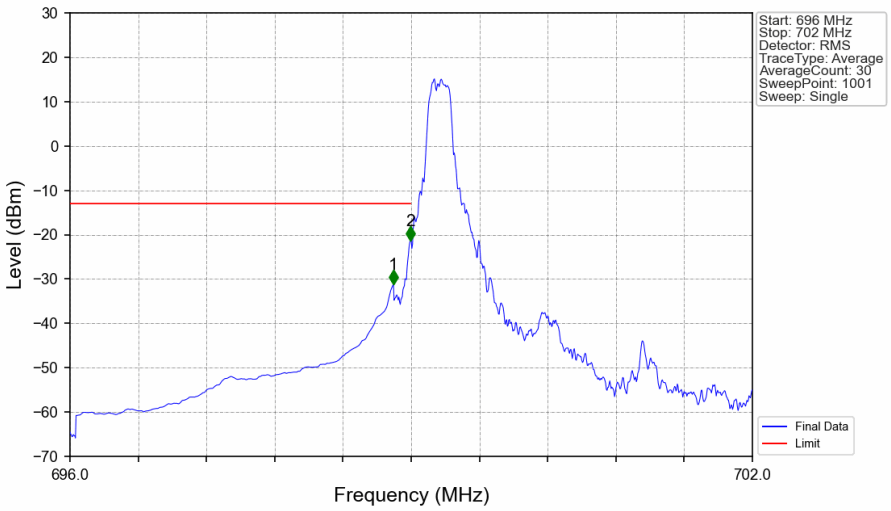
5.1.4 B12_10MHz

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

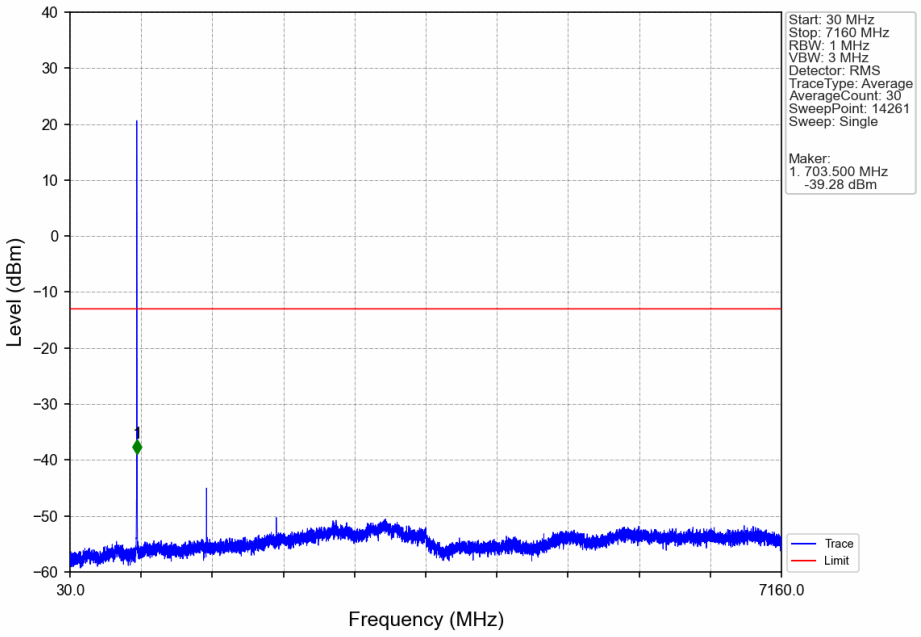
5.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

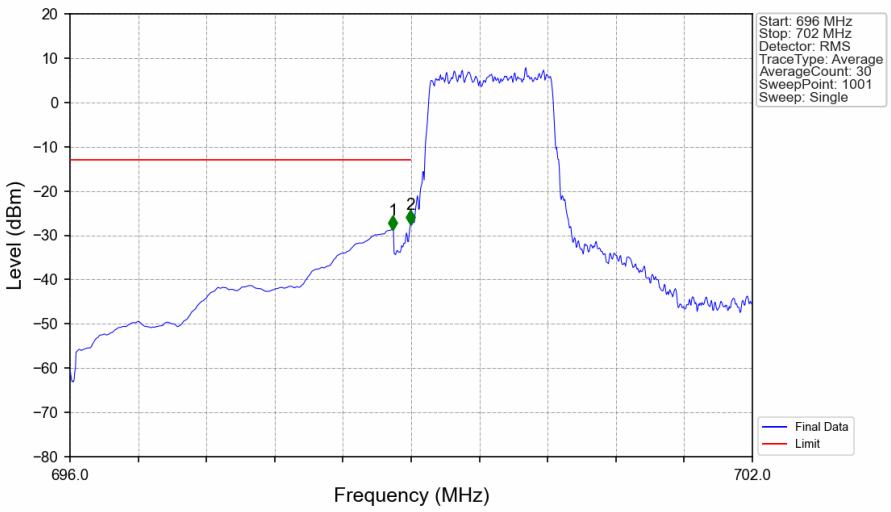


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-31.23	-13	Pass
698.9	699	0.03	/	2	698.994	-21.34	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

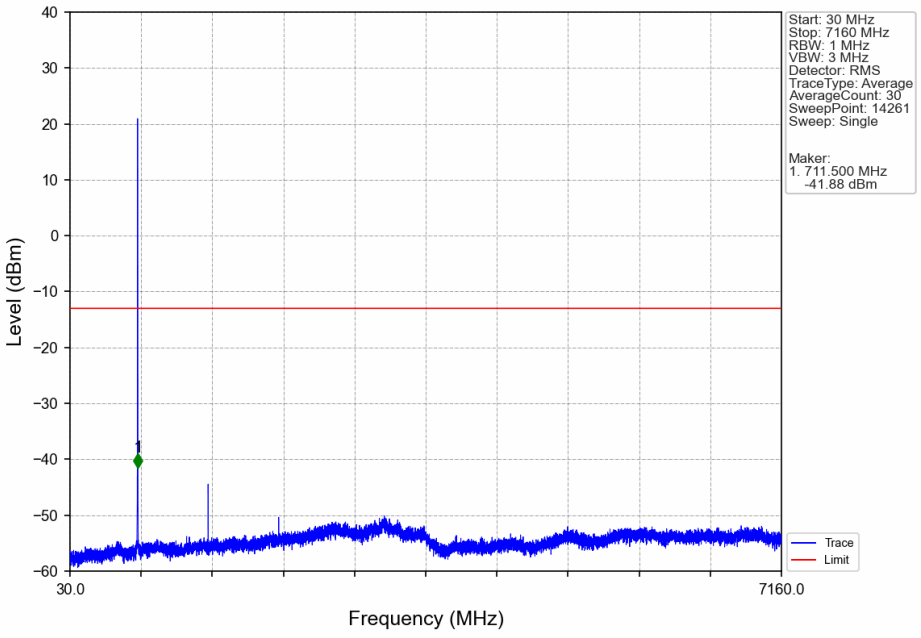


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

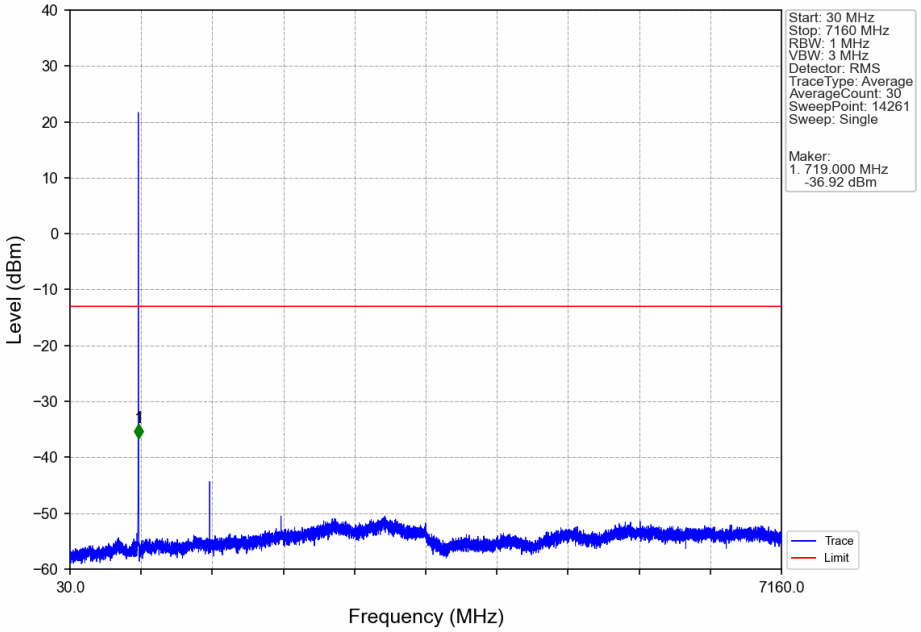


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.838	-28.73	-13	Pass
698.9	699	0.03	/	2	698.994	-27.57	-13	Pass
699	702	0.03	/	/	/	/	/	/

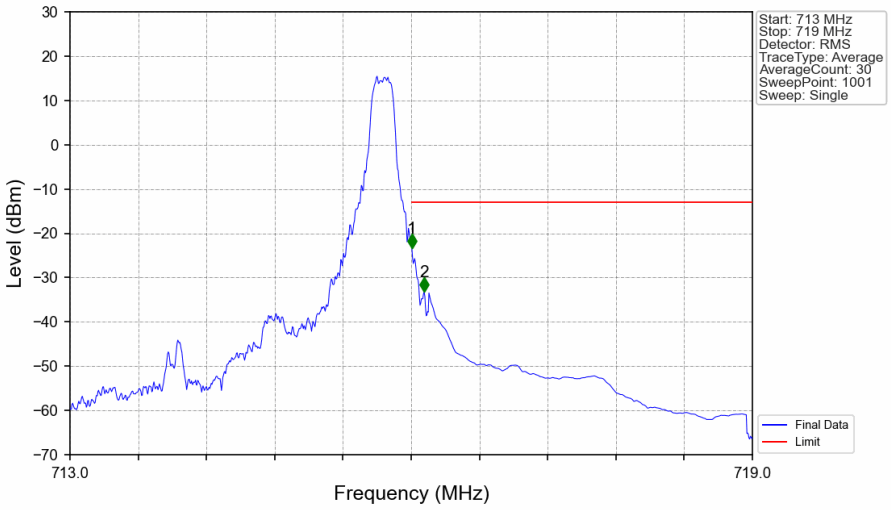
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

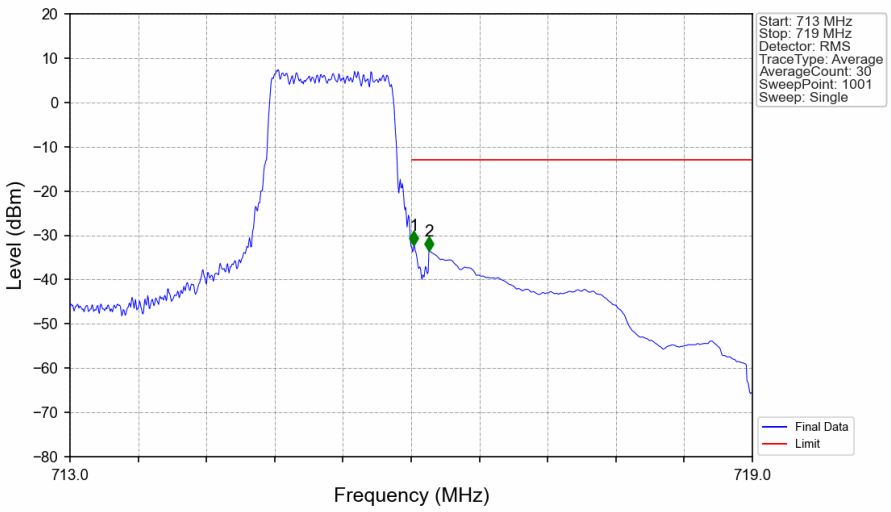


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



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	-23.27	-13	Pass
716.1	719	0.1	CHP	2	716.114	-33.17	-13	Pass

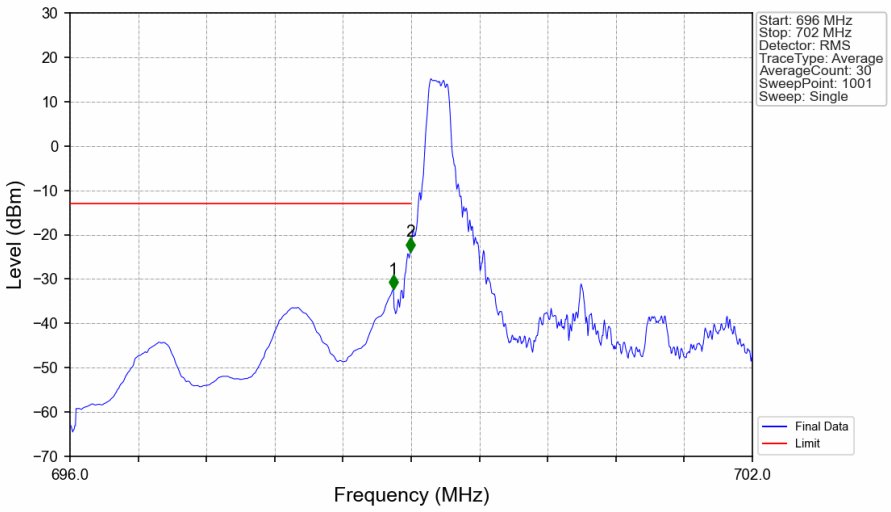
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



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	716.024	-32.14	-13	Pass
716.1	719	0.1	CHP	2	716.156	-33.58	-13	Pass

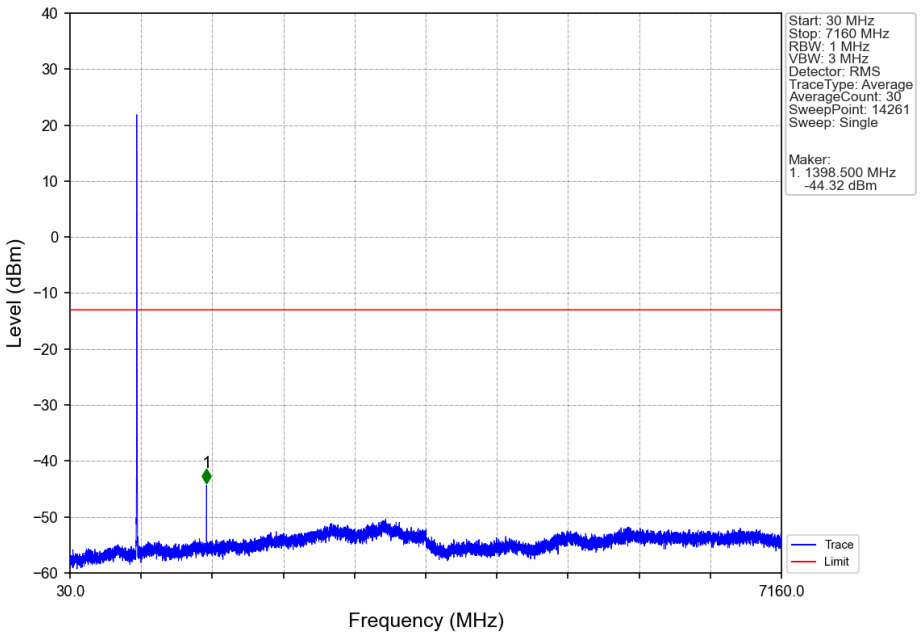
5.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

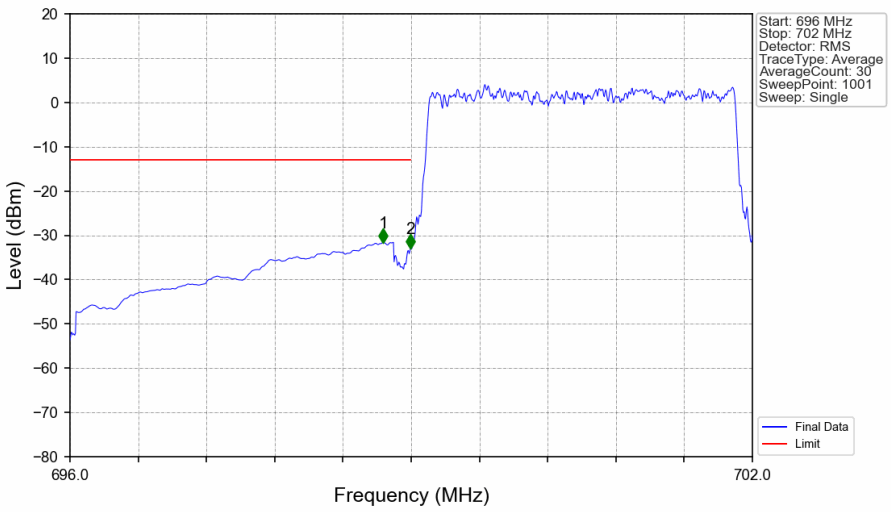


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-32.25	-13	Pass
698.9	699	0.03	/	2	698.994	-23.77	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

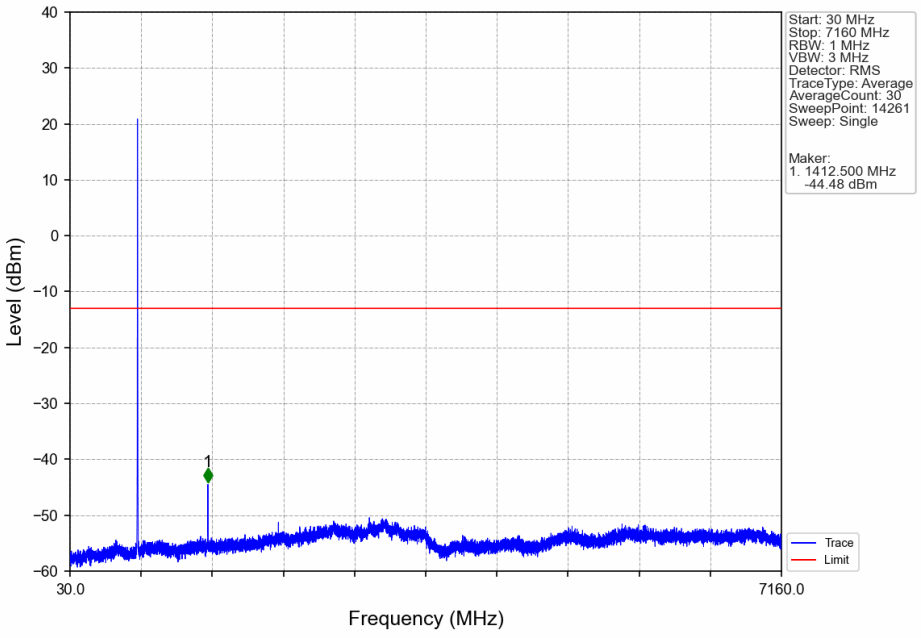


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

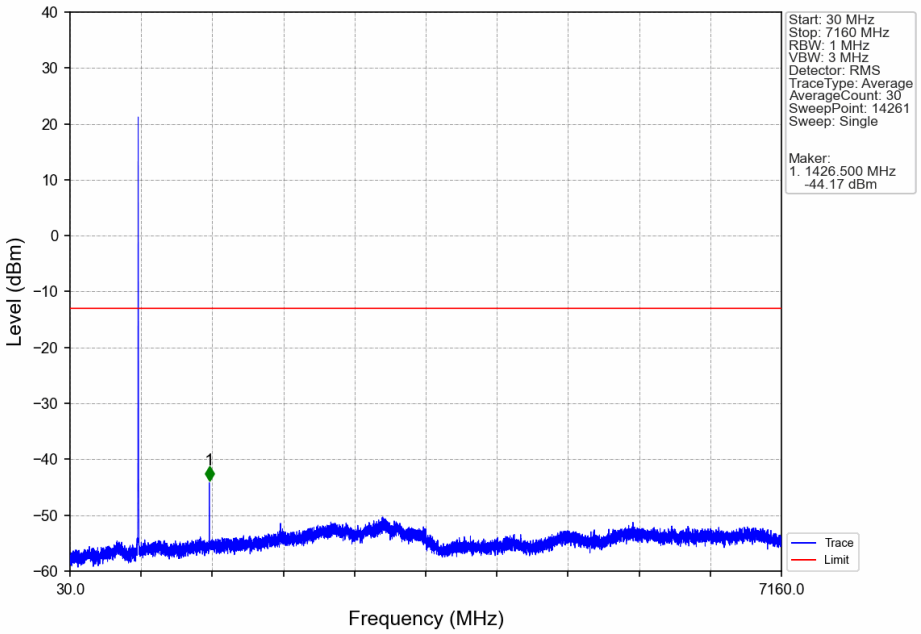


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.754	-31.59	-13	Pass
698.9	699	0.03	/	2	698.994	-32.90	-13	Pass
699	702	0.03	/	/	/	/	/	/

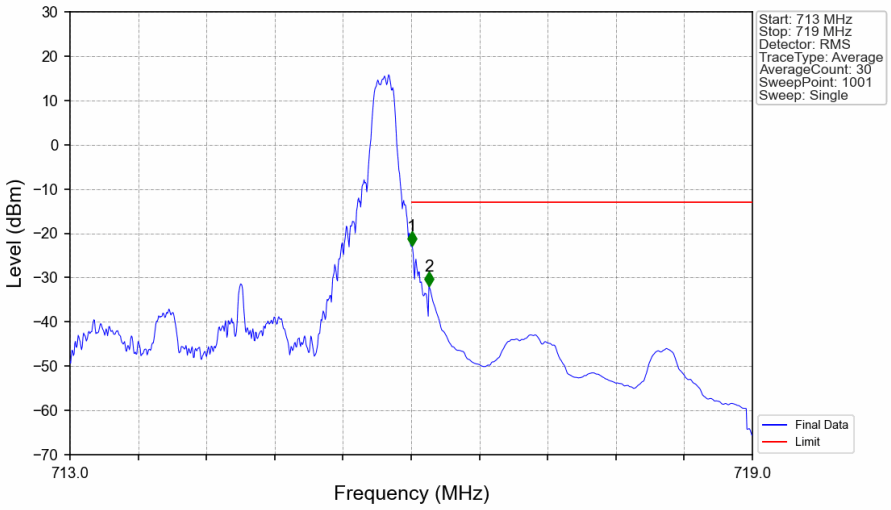
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

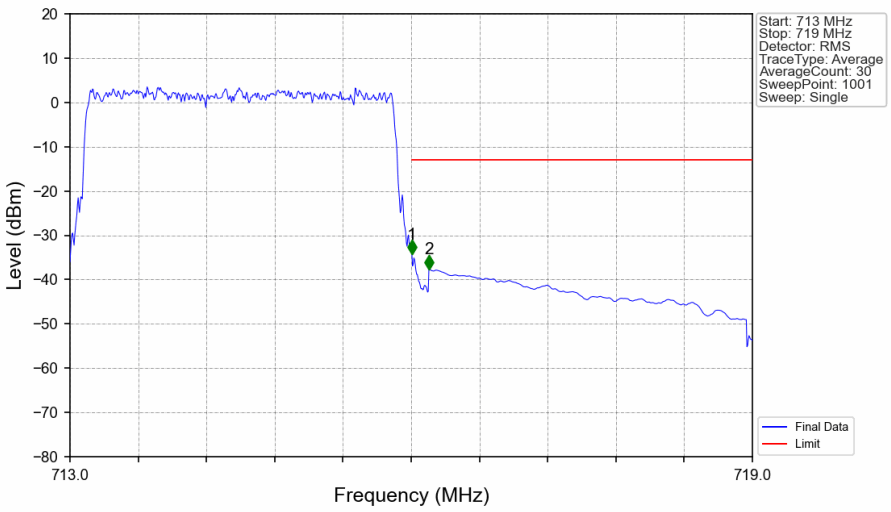


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



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	716.006	-22.85	-13	Pass
716.1	719	0.1	CHP	2	716.156	-31.89	-13	Pass

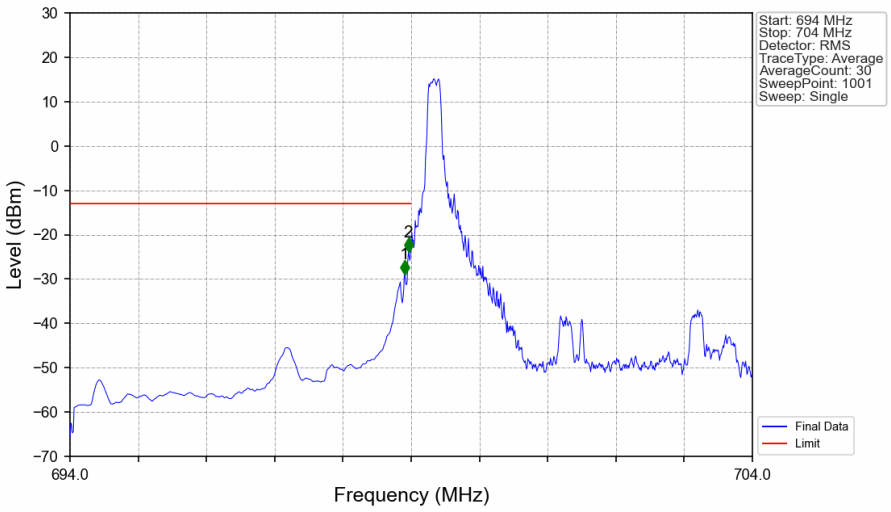
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



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	-34.25	-13	Pass
716.1	719	0.1	CHP	2	716.156	-37.60	-13	Pass

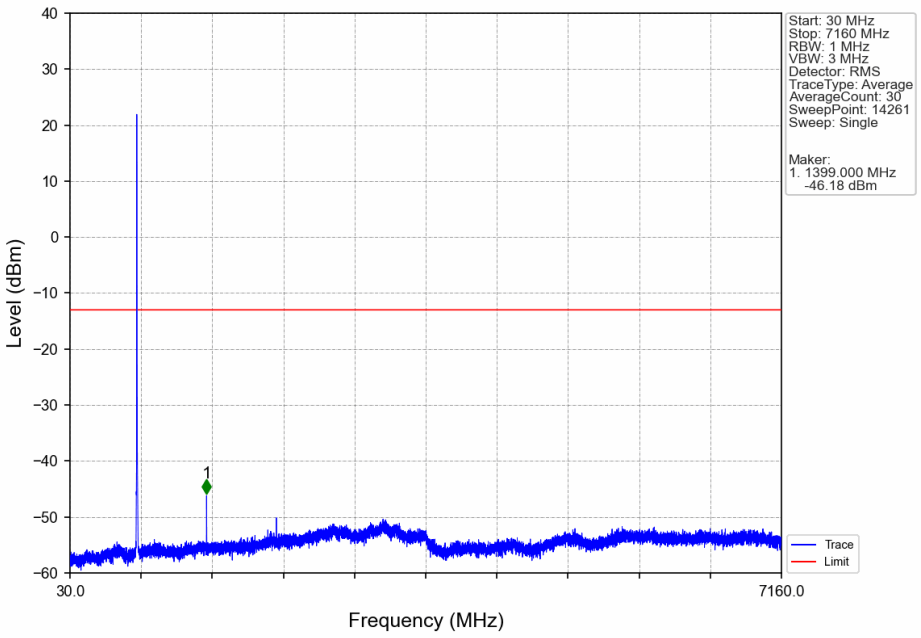
5.2.3 B12_5MHz

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

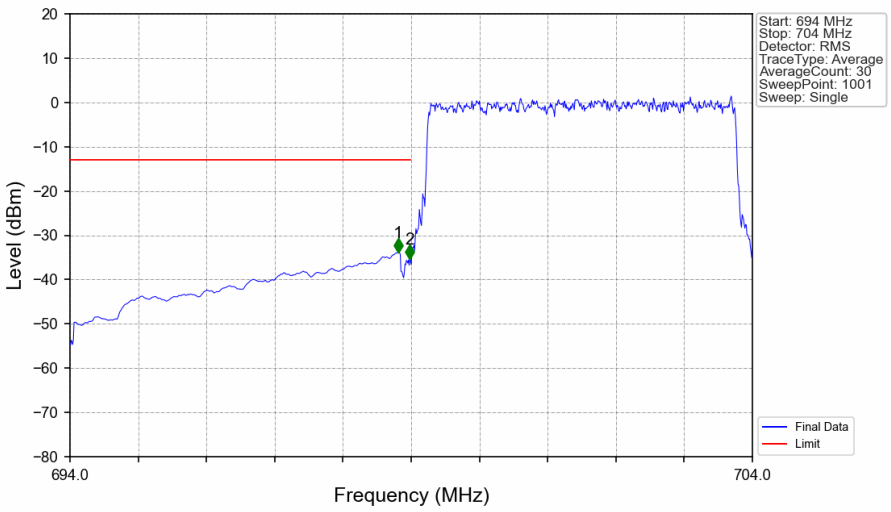


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.900	-28.87	-13	Pass
698.9	699	0.03	/	2	698.960	-23.85	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

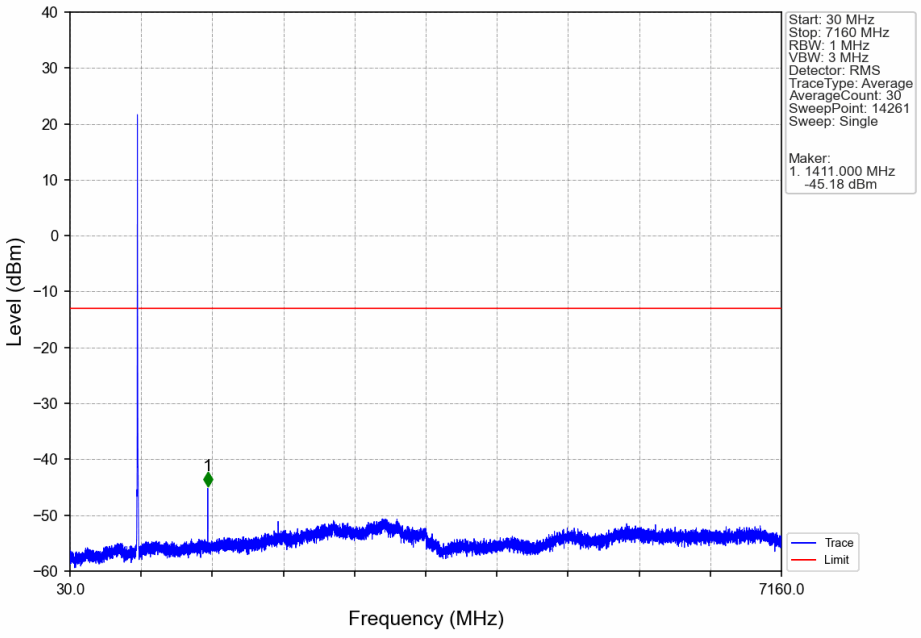


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

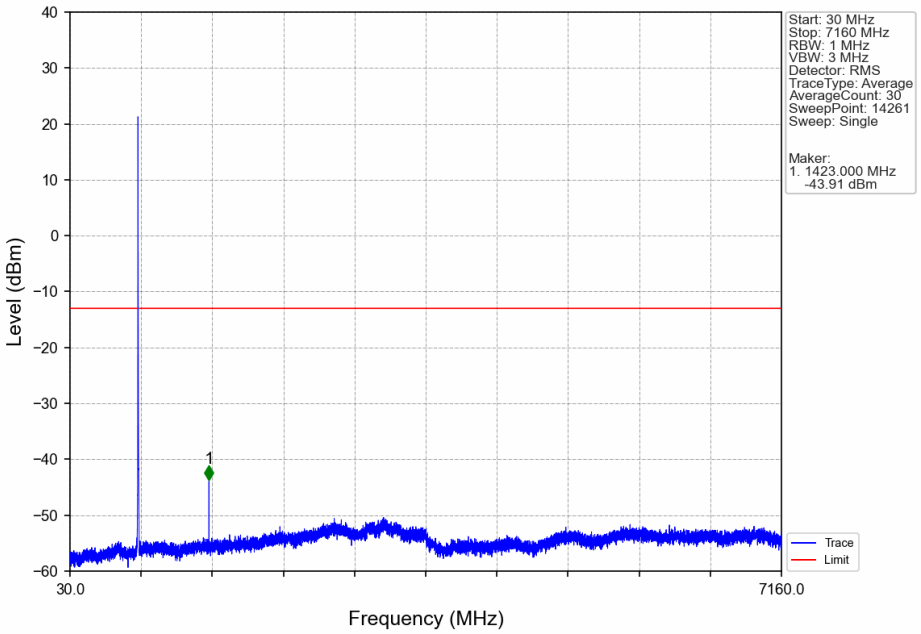


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.810	-33.90	-13	Pass
698.9	699	0.03	/	2	698.980	-35.28	-13	Pass
699	704	0.03	/	/	/	/	/	/

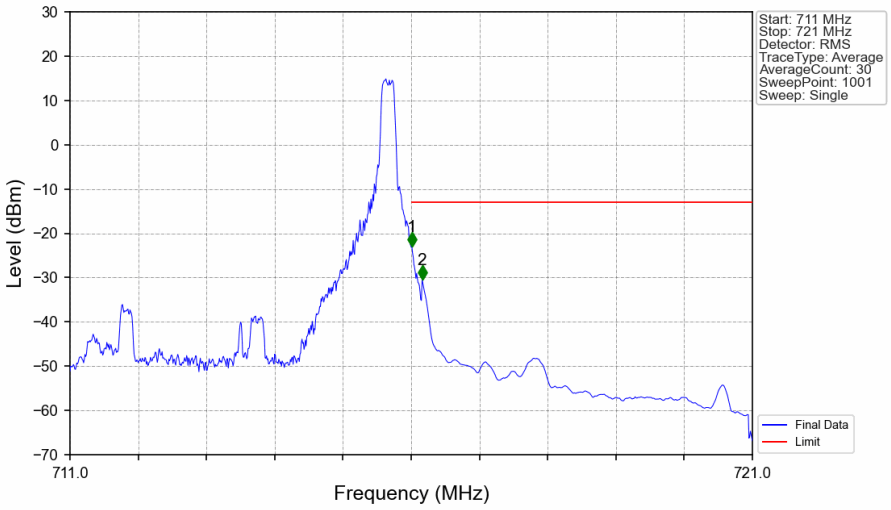
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

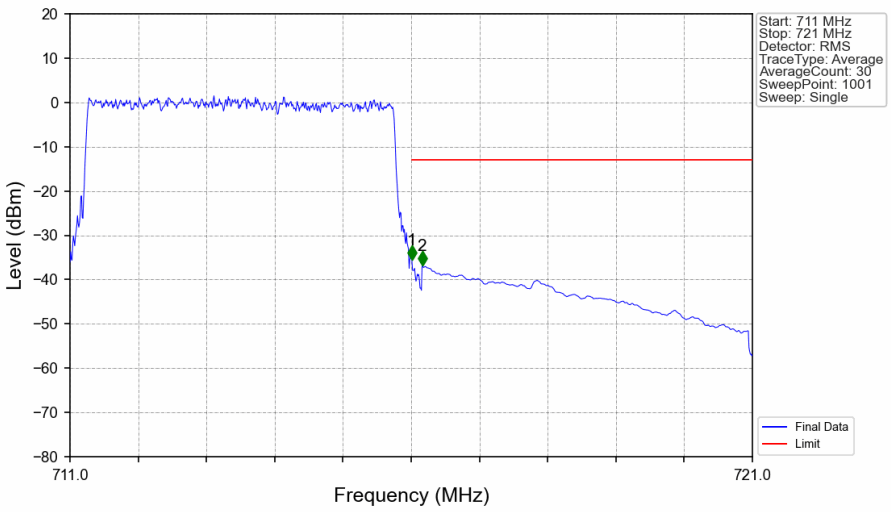


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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	716.010	-22.93	-13	Pass
716.1	721	0.1	CHP	2	716.160	-30.37	-13	Pass

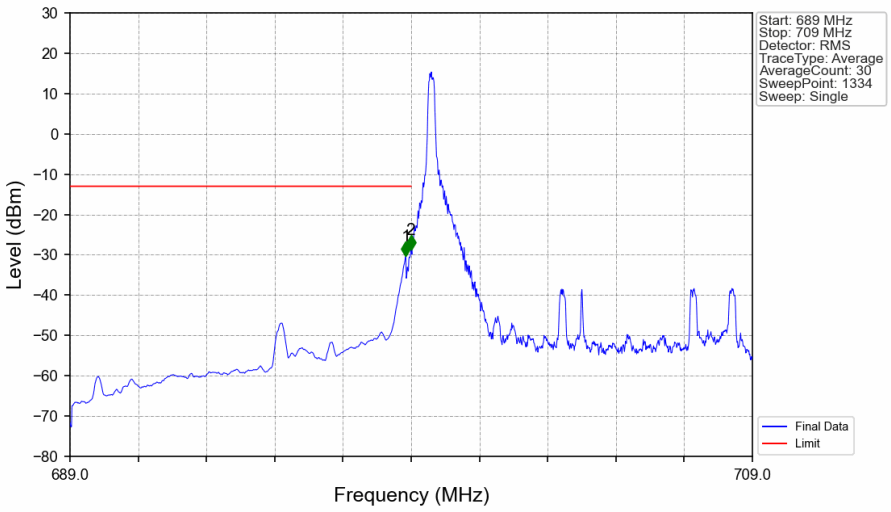
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	-35.47	-13	Pass
716.1	721	0.1	CHP	2	716.160	-36.69	-13	Pass

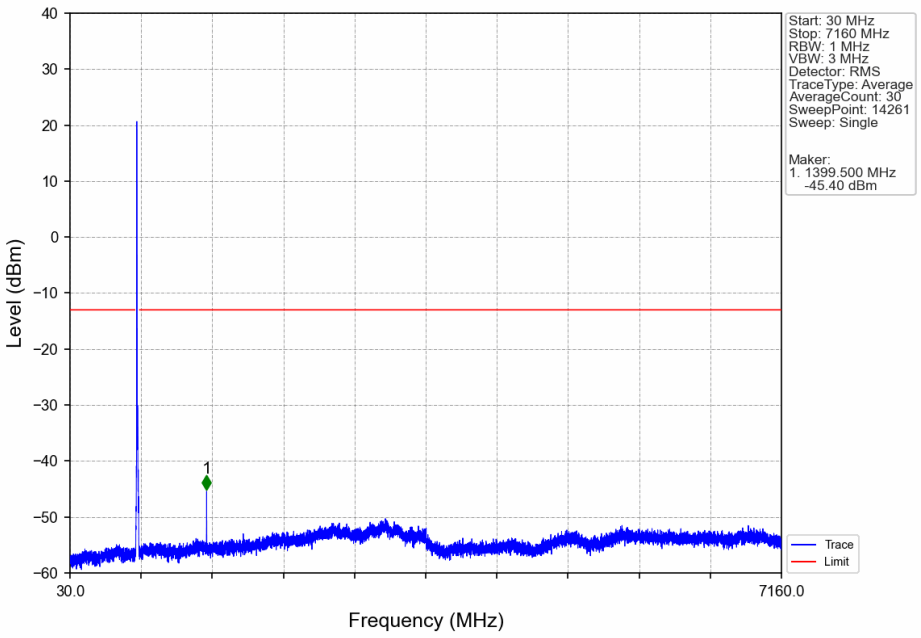
5.2.4 B12_10MHz

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

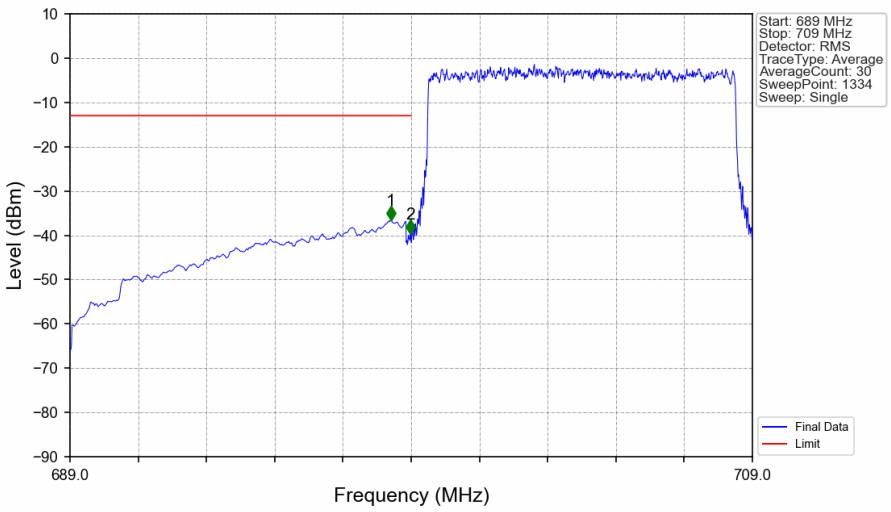


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-30.27	-13	Pass
698.9	699	0.03	/	2	698.992	-28.56	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

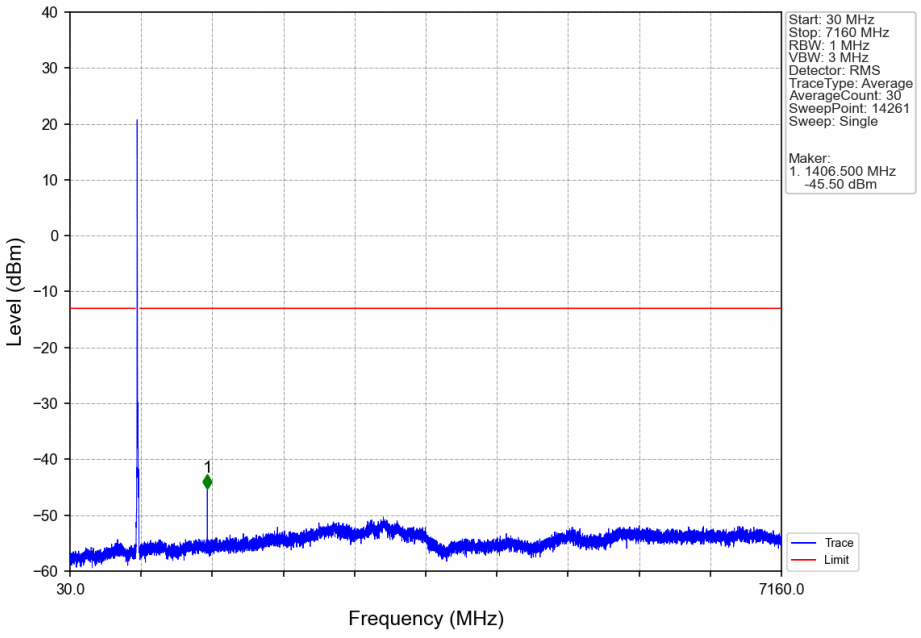


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

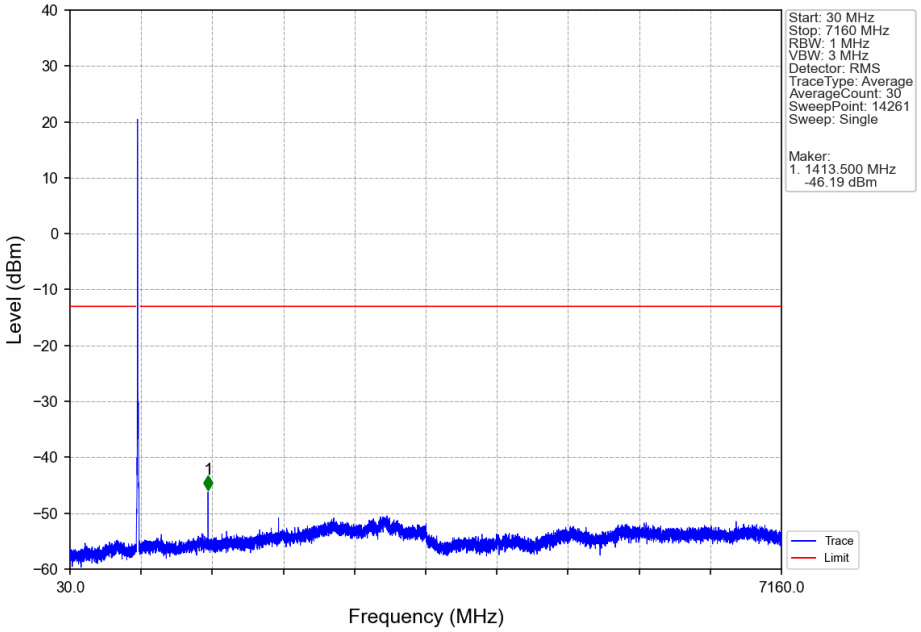


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.407	-36.51	-13	Pass
698.9	699	0.03	/	2	698.977	-39.74	-13	Pass
699	709	0.03	/	/	/	/	/	/

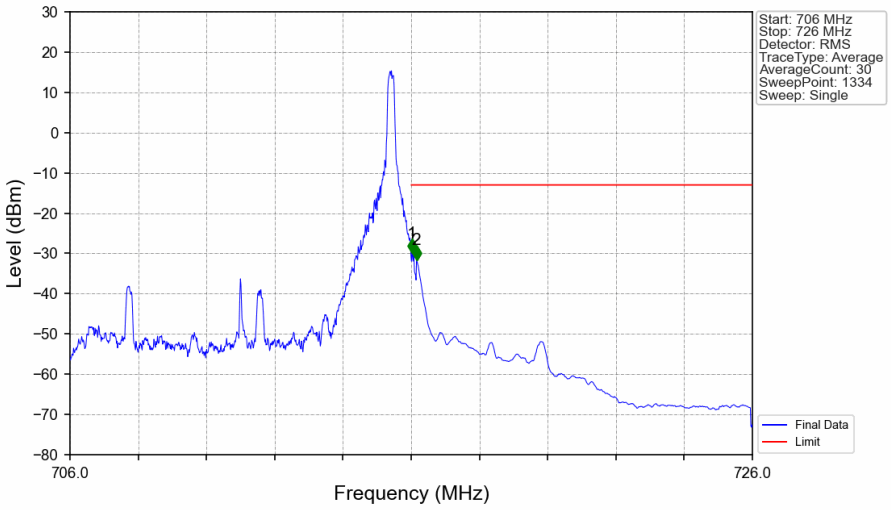
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

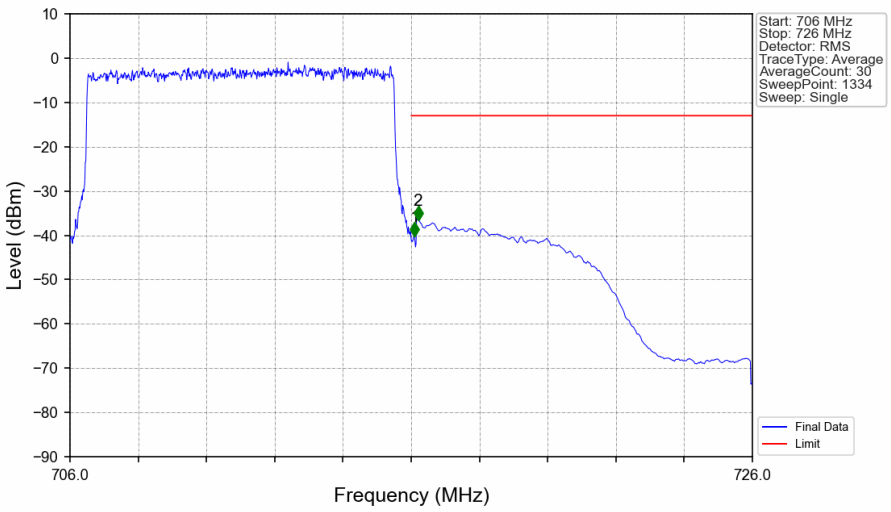


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	716.023	-29.90	-13	Pass
716.1	726	0.1	CHP	2	716.158	-31.55	-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	716.098	-40.29	-13	Pass
716.1	726	0.1	CHP	2	716.203	-36.50	-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	-70.32	-13	-57.32	-73.09	2.47	5.24	Horizontal	Pass
2098.5	-63.96	-13	-50.96	-66.03	2.79	4.86	Horizontal	Pass
2798.0	-68.71	-13	-55.71	-72.07	3.12	6.48	Horizontal	Pass
1399.0	-69.48	-13	-56.48	-72.25	2.47	5.24	Vertical	Pass
2098.5	-66.84	-13	-53.84	-68.91	2.79	4.86	Vertical	Pass
2798.0	-68.25	-13	-55.25	-71.61	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	-69.73	-13	-56.73	-72.53	2.48	5.28	Horizontal	Pass
2109.0	-65.86	-13	-52.86	-67.94	2.8	4.88	Horizontal	Pass
2812.0	-68.73	-13	-55.73	-72.12	3.12	6.51	Horizontal	Pass
1406.0	-70.08	-13	-57.08	-72.88	2.48	5.28	Vertical	Pass
2109.0	-65.65	-13	-52.65	-67.73	2.8	4.88	Vertical	Pass
2812.0	-68.73	-13	-55.73	-72.12	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	-70.45	-13	-57.45	-73.29	2.49	5.33	Horizontal	Pass
2119.5	-64.37	-13	-51.37	-66.47	2.81	4.91	Horizontal	Pass
2826.0	-68.85	-13	-55.85	-72.26	3.13	6.54	Horizontal	Pass
1413.0	-70.4	-13	-57.4	-73.24	2.49	5.33	Vertical	Pass
2119.5	-65.72	-13	-52.72	-67.82	2.81	4.91	Vertical	Pass
2826.0	-68.59	-13	-55.59	-72.0	3.13	6.54	Vertical	Pass