

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	23.55	-4.96	16.44	<=34.77	Pass
			2	23.57	-4.96	16.46	<=34.77	Pass
			5	23.62	-4.96	16.51	<=34.77	Pass
		3	0	23.59	-4.96	16.48	<=34.77	Pass
			2	23.63	-4.96	16.52	<=34.77	Pass
			3	23.59	-4.96	16.48	<=34.77	Pass
		6	0	22.61	-4.96	15.50	<=34.77	Pass
	707.5	1	0	23.65	-4.96	16.54	<=34.77	Pass
			2	23.67	-4.96	16.56	<=34.77	Pass
			5	23.70	-4.96	16.59	<=34.77	Pass
		3	0	23.70	-4.96	16.59	<=34.77	Pass
			2	23.72	-4.96	16.61	<=34.77	Pass
			3	23.71	-4.96	16.60	<=34.77	Pass
		6	0	22.67	-4.96	15.56	<=34.77	Pass
	715.3	1	0	23.67	-4.96	16.56	<=34.77	Pass
			2	23.63	-4.96	16.52	<=34.77	Pass
			5	23.66	-4.96	16.55	<=34.77	Pass
		3	0	23.83	-4.96	16.72	<=34.77	Pass
			2	23.81	-4.96	16.70	<=34.77	Pass
			3	23.71	-4.96	16.60	<=34.77	Pass
		6	0	22.78	-4.96	15.67	<=34.77	Pass
16QAM	699.7	1	0	22.75	-4.96	15.64	<=34.77	Pass
			2	22.73	-4.96	15.62	<=34.77	Pass
			5	22.76	-4.96	15.65	<=34.77	Pass
		3	0	22.72	-4.96	15.61	<=34.77	Pass
			2	22.71	-4.96	15.60	<=34.77	Pass
			3	22.73	-4.96	15.62	<=34.77	Pass
		6	0	21.72	-4.96	14.61	<=34.77	Pass
	707.5	1	0	22.69	-4.96	15.58	<=34.77	Pass
			2	22.71	-4.96	15.60	<=34.77	Pass
			5	22.77	-4.96	15.66	<=34.77	Pass
		3	0	22.67	-4.96	15.56	<=34.77	Pass
			2	22.69	-4.96	15.58	<=34.77	Pass
			3	22.69	-4.96	15.58	<=34.77	Pass
		6	0	21.71	-4.96	14.60	<=34.77	Pass
	715.3	1	0	22.78	-4.96	15.67	<=34.77	Pass
			2	22.76	-4.96	15.65	<=34.77	Pass
			5	22.75	-4.96	15.64	<=34.77	Pass
		3	0	22.94	-4.96	15.83	<=34.77	Pass
			2	22.98	-4.96	15.87	<=34.77	Pass
			3	22.98	-4.96	15.87	<=34.77	Pass
		6	0	22.00	-4.96	14.89	<=34.77	Pass
64QAM	699.7	1	0	21.87	-4.96	14.76	<=34.77	Pass
			2	21.90	-4.96	14.79	<=34.77	Pass
			5	21.89	-4.96	14.78	<=34.77	Pass
		3	0	21.80	-4.96	14.69	<=34.77	Pass
			2	21.80	-4.96	14.69	<=34.77	Pass
			3	21.81	-4.96	14.70	<=34.77	Pass
		6	0	21.00	-4.96	13.89	<=34.77	Pass

	707.5	1	0	22.01	-4.96	14.90	<=34.77	Pass
			2	21.98	-4.96	14.87	<=34.77	Pass
			5	22.05	-4.96	14.94	<=34.77	Pass
		3	0	21.67	-4.96	14.56	<=34.77	Pass
			2	21.69	-4.96	14.58	<=34.77	Pass
			3	21.70	-4.96	14.59	<=34.77	Pass
		6	0	20.88	-4.96	13.77	<=34.77	Pass
	715.3	1	0	22.28	-4.96	15.17	<=34.77	Pass
			2	22.30	-4.96	15.19	<=34.77	Pass
			5	22.46	-4.96	15.35	<=34.77	Pass
		3	0	22.20	-4.96	15.09	<=34.77	Pass
			2	22.21	-4.96	15.10	<=34.77	Pass
			3	22.18	-4.96	15.07	<=34.77	Pass
		6	0	20.89	-4.96	13.78	<=34.77	Pass
256QAM	699.7	1	0	18.48	-4.96	11.37	<=34.77	Pass
			2	18.45	-4.96	11.34	<=34.77	Pass
			5	18.55	-4.96	11.44	<=34.77	Pass
		3	0	18.52	-4.96	11.41	<=34.77	Pass
			2	18.53	-4.96	11.42	<=34.77	Pass
			3	18.55	-4.96	11.44	<=34.77	Pass
		6	0	18.74	-4.96	11.63	<=34.77	Pass
	707.5	1	0	18.82	-4.96	11.71	<=34.77	Pass
			2	18.85	-4.96	11.74	<=34.77	Pass
			5	18.85	-4.96	11.74	<=34.77	Pass
		3	0	18.79	-4.96	11.68	<=34.77	Pass
			2	18.78	-4.96	11.67	<=34.77	Pass
			3	18.76	-4.96	11.65	<=34.77	Pass
		6	0	18.79	-4.96	11.68	<=34.77	Pass
	715.3	1	0	19.18	-4.96	12.07	<=34.77	Pass
			2	19.20	-4.96	12.09	<=34.77	Pass
			5	19.13	-4.96	12.02	<=34.77	Pass
		3	0	18.85	-4.96	11.74	<=34.77	Pass
			2	18.88	-4.96	11.77	<=34.77	Pass
			3	18.87	-4.96	11.76	<=34.77	Pass
		6	0	18.87	-4.96	11.76	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.60	-4.96	16.49	<=34.77	Pass
			7	23.66	-4.96	16.55	<=34.77	Pass
			14	23.61	-4.96	16.50	<=34.77	Pass
		8	0	22.64	-4.96	15.53	<=34.77	Pass
			4	22.65	-4.96	15.54	<=34.77	Pass
			7	22.64	-4.96	15.53	<=34.77	Pass
		15	0	22.61	-4.96	15.50	<=34.77	Pass
	707.5	1	0	23.67	-4.96	16.56	<=34.77	Pass
			7	23.69	-4.96	16.58	<=34.77	Pass
			14	23.66	-4.96	16.55	<=34.77	Pass
		8	0	22.68	-4.96	15.57	<=34.77	Pass
			4	22.66	-4.96	15.55	<=34.77	Pass
			7	22.69	-4.96	15.58	<=34.77	Pass
		15	0	22.68	-4.96	15.57	<=34.77	Pass
	714.5	1	0	23.79	-4.96	16.68	<=34.77	Pass

		8	7	23.78	-4.96	16.67	<=34.77	Pass
			14	23.76	-4.96	16.65	<=34.77	Pass
			0	22.78	-4.96	15.67	<=34.77	Pass
			4	22.76	-4.96	15.65	<=34.77	Pass
			7	22.80	-4.96	15.69	<=34.77	Pass
		15	0	22.79	-4.96	15.68	<=34.77	Pass
16QAM	700.5	1	0	23.15	-4.96	16.04	<=34.77	Pass
			7	23.22	-4.96	16.11	<=34.77	Pass
			14	23.14	-4.96	16.03	<=34.77	Pass
		8	0	21.91	-4.96	14.80	<=34.77	Pass
			4	21.94	-4.96	14.83	<=34.77	Pass
			7	21.92	-4.96	14.81	<=34.77	Pass
		15	0	21.82	-4.96	14.71	<=34.77	Pass
	707.5	1	0	22.88	-4.96	15.77	<=34.77	Pass
			7	22.88	-4.96	15.77	<=34.77	Pass
			14	22.88	-4.96	15.77	<=34.77	Pass
		8	0	21.79	-4.96	14.68	<=34.77	Pass
			4	21.80	-4.96	14.69	<=34.77	Pass
			7	21.77	-4.96	14.66	<=34.77	Pass
		15	0	21.74	-4.96	14.63	<=34.77	Pass
	714.5	1	0	22.86	-4.96	15.75	<=34.77	Pass
			7	22.90	-4.96	15.79	<=34.77	Pass
			14	22.93	-4.96	15.82	<=34.77	Pass
		8	0	22.02	-4.96	14.91	<=34.77	Pass
			4	22.02	-4.96	14.91	<=34.77	Pass
			7	22.00	-4.96	14.89	<=34.77	Pass
		15	0	22.00	-4.96	14.89	<=34.77	Pass
64QAM	700.5	1	0	21.94	-4.96	14.83	<=34.77	Pass
			7	22.02	-4.96	14.91	<=34.77	Pass
			14	21.98	-4.96	14.87	<=34.77	Pass
		8	0	20.85	-4.96	13.74	<=34.77	Pass
			4	20.85	-4.96	13.74	<=34.77	Pass
			7	20.84	-4.96	13.73	<=34.77	Pass
		15	0	20.70	-4.96	13.59	<=34.77	Pass
	707.5	1	0	21.93	-4.96	14.82	<=34.77	Pass
			7	21.97	-4.96	14.86	<=34.77	Pass
			14	21.99	-4.96	14.88	<=34.77	Pass
		8	0	20.85	-4.96	13.74	<=34.77	Pass
			4	20.83	-4.96	13.72	<=34.77	Pass
			7	20.82	-4.96	13.71	<=34.77	Pass
		15	0	20.81	-4.96	13.70	<=34.77	Pass
	714.5	1	0	22.12	-4.96	15.01	<=34.77	Pass
			7	22.11	-4.96	15.00	<=34.77	Pass
			14	22.05	-4.96	14.94	<=34.77	Pass
		8	0	20.83	-4.96	13.72	<=34.77	Pass
			4	20.82	-4.96	13.71	<=34.77	Pass
			7	20.87	-4.96	13.76	<=34.77	Pass
		15	0	20.96	-4.96	13.85	<=34.77	Pass
256QAM	700.5	1	0	19.08	-4.96	11.97	<=34.77	Pass
			7	19.15	-4.96	12.04	<=34.77	Pass
			14	19.11	-4.96	12.00	<=34.77	Pass
		8	0	18.83	-4.96	11.72	<=34.77	Pass
			4	18.82	-4.96	11.71	<=34.77	Pass
			7	18.80	-4.96	11.69	<=34.77	Pass
		15	0	18.73	-4.96	11.62	<=34.77	Pass
	707.5	1	0	18.61	-4.96	11.50	<=34.77	Pass
			7	18.60	-4.96	11.49	<=34.77	Pass
			14	18.57	-4.96	11.46	<=34.77	Pass
		8	0	18.74	-4.96	11.63	<=34.77	Pass
			0	18.74	-4.96	11.63	<=34.77	Pass

			4	18.71	-4.96	11.60	<=34.77	Pass
			7	18.71	-4.96	11.60	<=34.77	Pass
		15	0	18.85	-4.96	11.74	<=34.77	Pass
	714.5	1	0	18.92	-4.96	11.81	<=34.77	Pass
			7	18.94	-4.96	11.83	<=34.77	Pass
			14	18.96	-4.96	11.85	<=34.77	Pass
		8	0	19.02	-4.96	11.91	<=34.77	Pass
			4	19.03	-4.96	11.92	<=34.77	Pass
			7	19.00	-4.96	11.89	<=34.77	Pass
		15	0	18.93	-4.96	11.82	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.78	-4.96	16.67	<=34.77	Pass
			13	23.80	-4.96	16.69	<=34.77	Pass
			24	23.86	-4.96	16.75	<=34.77	Pass
		12	0	22.75	-4.96	15.64	<=34.77	Pass
			6	22.75	-4.96	15.64	<=34.77	Pass
			13	22.77	-4.96	15.66	<=34.77	Pass
		25	0	22.79	-4.96	15.68	<=34.77	Pass
	707.5	1	0	23.84	-4.96	16.73	<=34.77	Pass
			13	23.82	-4.96	16.71	<=34.77	Pass
			24	23.87	-4.96	16.76	<=34.77	Pass
		12	0	22.78	-4.96	15.67	<=34.77	Pass
			6	22.78	-4.96	15.67	<=34.77	Pass
			13	22.76	-4.96	15.65	<=34.77	Pass
		25	0	22.84	-4.96	15.73	<=34.77	Pass
	713.5	1	0	23.88	-4.96	16.77	<=34.77	Pass
			13	23.93	-4.96	16.82	<=34.77	Pass
			24	23.97	-4.96	16.86	<=34.77	Pass
		12	0	22.83	-4.96	15.72	<=34.77	Pass
			6	22.83	-4.96	15.72	<=34.77	Pass
			13	22.85	-4.96	15.74	<=34.77	Pass
		25	0	22.88	-4.96	15.77	<=34.77	Pass
16QAM	701.5	1	0	22.59	-4.96	15.48	<=34.77	Pass
			13	22.58	-4.96	15.47	<=34.77	Pass
			24	22.68	-4.96	15.57	<=34.77	Pass
		12	0	21.88	-4.96	14.77	<=34.77	Pass
			6	21.88	-4.96	14.77	<=34.77	Pass
			13	21.88	-4.96	14.77	<=34.77	Pass
		25	0	21.90	-4.96	14.79	<=34.77	Pass
	707.5	1	0	23.09	-4.96	15.98	<=34.77	Pass
			13	23.04	-4.96	15.93	<=34.77	Pass
			24	23.08	-4.96	15.97	<=34.77	Pass
		12	0	21.95	-4.96	14.84	<=34.77	Pass
			6	21.93	-4.96	14.82	<=34.77	Pass
			13	21.96	-4.96	14.85	<=34.77	Pass
		25	0	21.91	-4.96	14.80	<=34.77	Pass
	713.5	1	0	22.93	-4.96	15.82	<=34.77	Pass
			13	22.96	-4.96	15.85	<=34.77	Pass
			24	22.98	-4.96	15.87	<=34.77	Pass
		12	0	21.99	-4.96	14.88	<=34.77	Pass
			6	22.00	-4.96	14.89	<=34.77	Pass

			13	22.03	-4.96	14.92	<=34.77	Pass		
		25	0	21.99	-4.96	14.88	<=34.77	Pass		
64QAM	701.5	1	0	21.82	-4.96	14.71	<=34.77	Pass		
			13	21.76	-4.96	14.65	<=34.77	Pass		
			24	21.83	-4.96	14.72	<=34.77	Pass		
			0	20.87	-4.96	13.76	<=34.77	Pass		
		12	6	20.88	-4.96	13.77	<=34.77	Pass		
			13	20.90	-4.96	13.79	<=34.77	Pass		
			25	0	20.84	-4.96	13.73	<=34.77	Pass	
		707.5	1	0	22.25	-4.96	15.14	<=34.77	Pass	
				13	22.30	-4.96	15.19	<=34.77	Pass	
	24			22.31	-4.96	15.20	<=34.77	Pass		
	0			20.82	-4.96	13.71	<=34.77	Pass		
	12		6	20.80	-4.96	13.69	<=34.77	Pass		
			13	20.85	-4.96	13.74	<=34.77	Pass		
			25	0	20.84	-4.96	13.73	<=34.77	Pass	
	713.5		1	0	22.13	-4.96	15.02	<=34.77	Pass	
				13	22.19	-4.96	15.08	<=34.77	Pass	
		24		22.19	-4.96	15.08	<=34.77	Pass		
		0		21.03	-4.96	13.92	<=34.77	Pass		
		12	6	21.05	-4.96	13.94	<=34.77	Pass		
			13	21.06	-4.96	13.95	<=34.77	Pass		
			25	0	21.01	-4.96	13.90	<=34.77	Pass	
		256QAM	701.5	1	0	18.55	-4.96	11.44	<=34.77	Pass
					13	18.61	-4.96	11.50	<=34.77	Pass
24	18.65				-4.96	11.54	<=34.77	Pass		
12	0			18.87	-4.96	11.76	<=34.77	Pass		
	6			18.87	-4.96	11.76	<=34.77	Pass		
	13			18.88	-4.96	11.77	<=34.77	Pass		
25	0			18.90	-4.96	11.79	<=34.77	Pass		
707.5	1		0	19.10	-4.96	11.99	<=34.77	Pass		
			13	19.08	-4.96	11.97	<=34.77	Pass		
			24	19.12	-4.96	12.01	<=34.77	Pass		
	12		0	18.94	-4.96	11.83	<=34.77	Pass		
			6	18.91	-4.96	11.80	<=34.77	Pass		
			13	18.94	-4.96	11.83	<=34.77	Pass		
	25		0	18.89	-4.96	11.78	<=34.77	Pass		
713.5	1		0	18.96	-4.96	11.85	<=34.77	Pass		
			13	18.98	-4.96	11.87	<=34.77	Pass		
			24	19.06	-4.96	11.95	<=34.77	Pass		
	12		0	18.99	-4.96	11.88	<=34.77	Pass		
			6	18.99	-4.96	11.88	<=34.77	Pass		
			13	19.02	-4.96	11.91	<=34.77	Pass		
	25		0	18.98	-4.96	11.87	<=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	23.76	-4.96	16.65	<=34.77	Pass
			25	23.77	-4.96	16.66	<=34.77	Pass
			49	23.79	-4.96	16.68	<=34.77	Pass
		25	0	22.75	-4.96	15.64	<=34.77	Pass
			13	22.73	-4.96	15.62	<=34.77	Pass
			25	22.77	-4.96	15.66	<=34.77	Pass

		50	0	22.74	-4.96	15.63	<=34.77	Pass	
	707.5	1	0	23.76	-4.96	16.65	<=34.77	Pass	
			25	23.75	-4.96	16.64	<=34.77	Pass	
			49	23.82	-4.96	16.71	<=34.77	Pass	
			0	22.76	-4.96	15.65	<=34.77	Pass	
		25	13	22.76	-4.96	15.65	<=34.77	Pass	
			25	22.81	-4.96	15.70	<=34.77	Pass	
			50	0	22.79	-4.96	15.68	<=34.77	Pass
	711	1	0	23.85	-4.96	16.74	<=34.77	Pass	
			25	23.86	-4.96	16.75	<=34.77	Pass	
			49	23.93	-4.96	16.82	<=34.77	Pass	
		25	0	22.82	-4.96	15.71	<=34.77	Pass	
			13	22.83	-4.96	15.72	<=34.77	Pass	
			25	22.90	-4.96	15.79	<=34.77	Pass	
		50	0	22.86	-4.96	15.75	<=34.77	Pass	
		16QAM	704	1	0	23.33	-4.96	16.22	<=34.77
	25				23.33	-4.96	16.22	<=34.77	Pass
49	23.36				-4.96	16.25	<=34.77	Pass	
25	0			21.87	-4.96	14.76	<=34.77	Pass	
	13			21.87	-4.96	14.76	<=34.77	Pass	
	25			21.89	-4.96	14.78	<=34.77	Pass	
50	0			21.84	-4.96	14.73	<=34.77	Pass	
707.5	1		0	22.94	-4.96	15.83	<=34.77	Pass	
			25	22.94	-4.96	15.83	<=34.77	Pass	
			49	23.03	-4.96	15.92	<=34.77	Pass	
	25		0	21.86	-4.96	14.75	<=34.77	Pass	
			13	21.84	-4.96	14.73	<=34.77	Pass	
			25	21.91	-4.96	14.80	<=34.77	Pass	
	50		0	21.85	-4.96	14.74	<=34.77	Pass	
711	1		0	22.86	-4.96	15.75	<=34.77	Pass	
			25	22.87	-4.96	15.76	<=34.77	Pass	
			49	23.02	-4.96	15.91	<=34.77	Pass	
	25		0	22.01	-4.96	14.90	<=34.77	Pass	
			13	21.98	-4.96	14.87	<=34.77	Pass	
			25	22.06	-4.96	14.95	<=34.77	Pass	
	50		0	21.96	-4.96	14.85	<=34.77	Pass	
64QAM	704	1	0	22.09	-4.96	14.98	<=34.77	Pass	
			25	22.11	-4.96	15.00	<=34.77	Pass	
			49	22.13	-4.96	15.02	<=34.77	Pass	
		25	0	20.83	-4.96	13.72	<=34.77	Pass	
			13	20.83	-4.96	13.72	<=34.77	Pass	
			25	20.85	-4.96	13.74	<=34.77	Pass	
		50	0	20.82	-4.96	13.71	<=34.77	Pass	
	707.5	1	0	22.03	-4.96	14.92	<=34.77	Pass	
			25	22.04	-4.96	14.93	<=34.77	Pass	
			49	22.11	-4.96	15.00	<=34.77	Pass	
		25	0	20.91	-4.96	13.80	<=34.77	Pass	
			13	20.88	-4.96	13.77	<=34.77	Pass	
			25	20.95	-4.96	13.84	<=34.77	Pass	
		50	0	20.88	-4.96	13.77	<=34.77	Pass	
	711	1	0	22.13	-4.96	15.02	<=34.77	Pass	
			25	22.12	-4.96	15.01	<=34.77	Pass	
			49	22.14	-4.96	15.03	<=34.77	Pass	
		25	0	20.96	-4.96	13.85	<=34.77	Pass	
			13	20.96	-4.96	13.85	<=34.77	Pass	
			25	21.00	-4.96	13.89	<=34.77	Pass	
		50	0	20.91	-4.96	13.80	<=34.77	Pass	
256QAM	704	1	0	19.26	-4.96	12.15	<=34.77	Pass	
			25	19.25	-4.96	12.14	<=34.77	Pass	

			49	19.27	-4.96	12.16	<=34.77	Pass
		25	0	18.84	-4.96	11.73	<=34.77	Pass
			13	18.84	-4.96	11.73	<=34.77	Pass
			25	18.85	-4.96	11.74	<=34.77	Pass
		50	0	18.82	-4.96	11.71	<=34.77	Pass
	707.5	1	0	18.62	-4.96	11.51	<=34.77	Pass
			25	18.62	-4.96	11.51	<=34.77	Pass
			49	18.69	-4.96	11.58	<=34.77	Pass
		25	0	18.88	-4.96	11.77	<=34.77	Pass
			13	18.88	-4.96	11.77	<=34.77	Pass
			25	18.92	-4.96	11.81	<=34.77	Pass
		50	0	18.83	-4.96	11.72	<=34.77	Pass
		711	1	0	18.97	-4.96	11.86	<=34.77
	25			18.99	-4.96	11.88	<=34.77	Pass
	49			19.06	-4.96	11.95	<=34.77	Pass
	25		0	18.97	-4.96	11.86	<=34.77	Pass
			13	18.97	-4.96	11.86	<=34.77	Pass
			25	19.00	-4.96	11.89	<=34.77	Pass
	50	0	18.93	-4.96	11.82	<=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	1.000	0.0014	-2.5 to 2.5	Pass
					NV	-0.894	-0.0013	-2.5 to 2.5	Pass
					HV	-0.827	-0.0012	-2.5 to 2.5	Pass
				-30	NV	0.864	0.0012	-2.5 to 2.5	Pass
				-20	NV	0.573	0.0008	-2.5 to 2.5	Pass
				-10	NV	-1.064	-0.0015	-2.5 to 2.5	Pass
				0	NV	2.348	0.0033	-2.5 to 2.5	Pass
				10	NV	-0.319	-0.0005	-2.5 to 2.5	Pass
				30	NV	-2.412	-0.0034	-2.5 to 2.5	Pass
				40	NV	0.612	0.0009	-2.5 to 2.5	Pass
				50	NV	-0.857	-0.0012	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

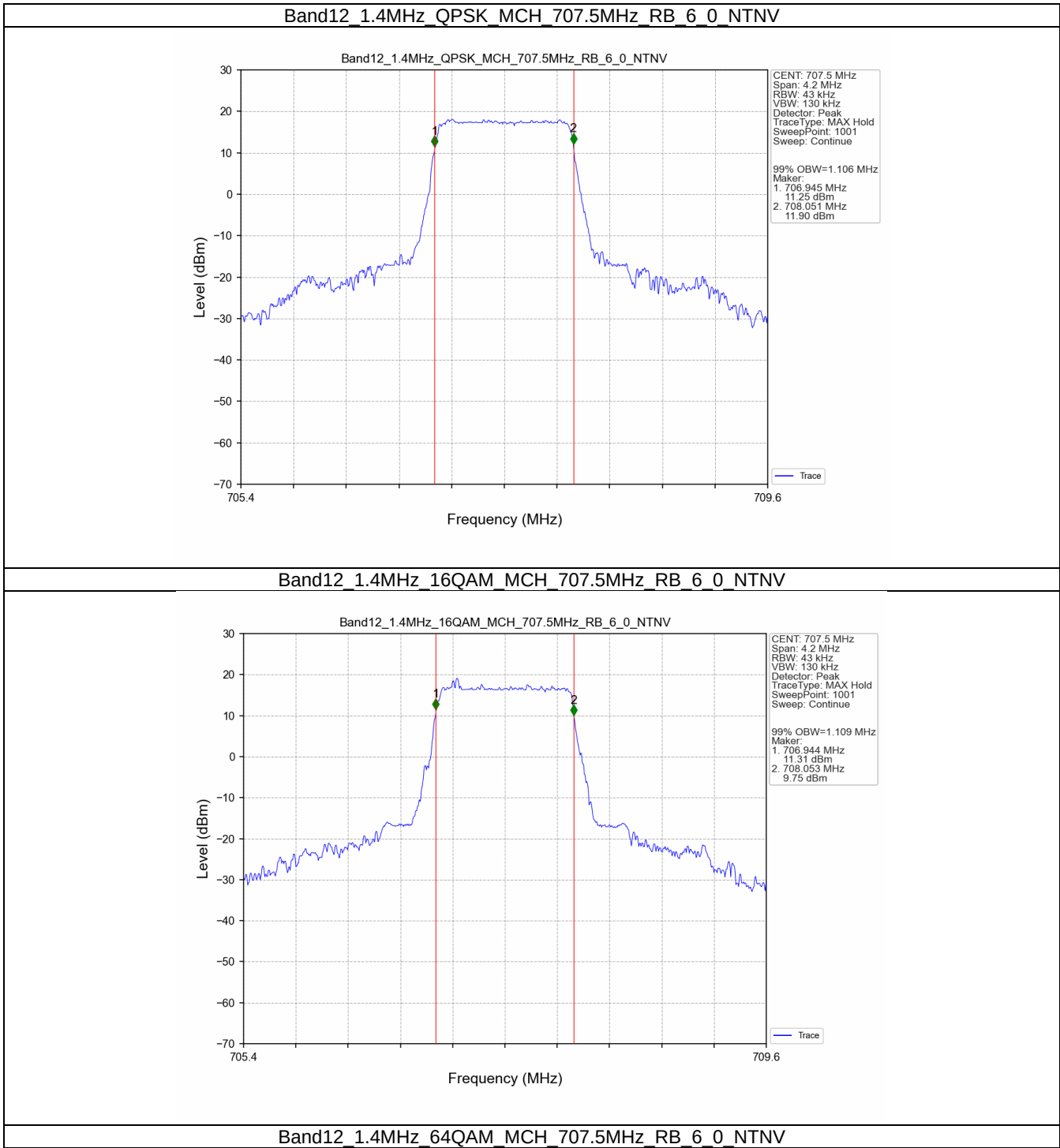
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.106	/	Pass
	16QAM	707.5	6	0	1.109	/	Pass
	64QAM	707.5	6	0	1.105	/	Pass
	256QAM	707.5	6	0	1.101	/	Pass
3	QPSK	707.5	15	0	2.749	/	Pass
	16QAM	707.5	15	0	2.732	/	Pass
	64QAM	707.5	15	0	2.738	/	Pass
	256QAM	707.5	15	0	2.735	/	Pass
5	QPSK	707.5	25	0	4.565	/	Pass
	16QAM	707.5	25	0	4.538	/	Pass
	64QAM	707.5	25	0	4.562	/	Pass
	256QAM	707.5	25	0	4.553	/	Pass
10	QPSK	707.5	50	0	9.050	/	Pass
	16QAM	707.5	50	0	9.051	/	Pass
	64QAM	707.5	50	0	9.069	/	Pass
	256QAM	707.5	50	0	9.053	/	Pass

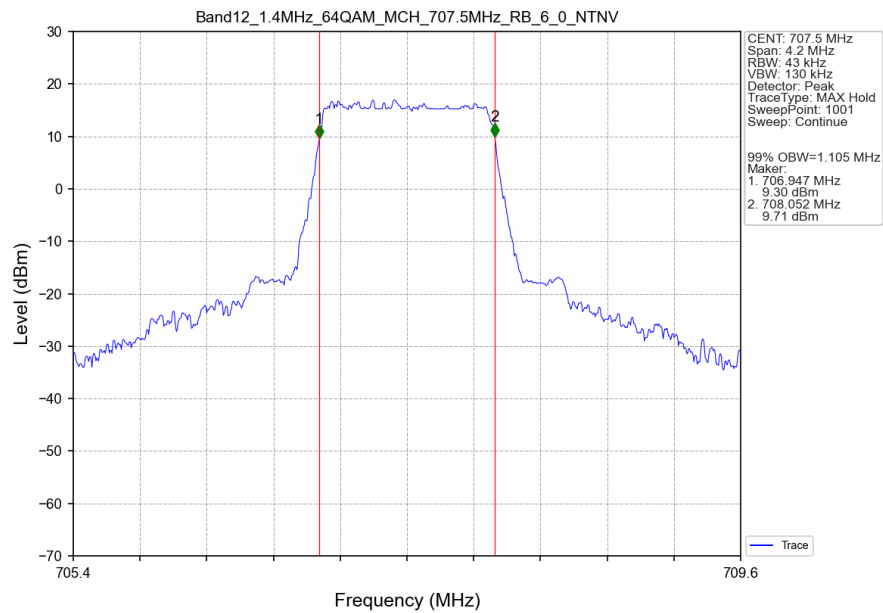
3.1.2 Band12_XDB

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	1.326	/	Pass
	16QAM	707.5	6	0	1.327	/	Pass
	64QAM	707.5	6	0	1.324	/	Pass
	256QAM	707.5	6	0	1.314	/	Pass
3	QPSK	707.5	15	0	3.000	/	Pass
	16QAM	707.5	15	0	3.036	/	Pass
	64QAM	707.5	15	0	3.032	/	Pass
	256QAM	707.5	15	0	3.017	/	Pass
5	QPSK	707.5	25	0	5.073	/	Pass
	16QAM	707.5	25	0	5.070	/	Pass
	64QAM	707.5	25	0	5.049	/	Pass
	256QAM	707.5	25	0	5.046	/	Pass
10	QPSK	707.5	50	0	10.032	/	Pass
	16QAM	707.5	50	0	9.971	/	Pass
	64QAM	707.5	50	0	9.901	/	Pass
	256QAM	707.5	50	0	9.968	/	Pass

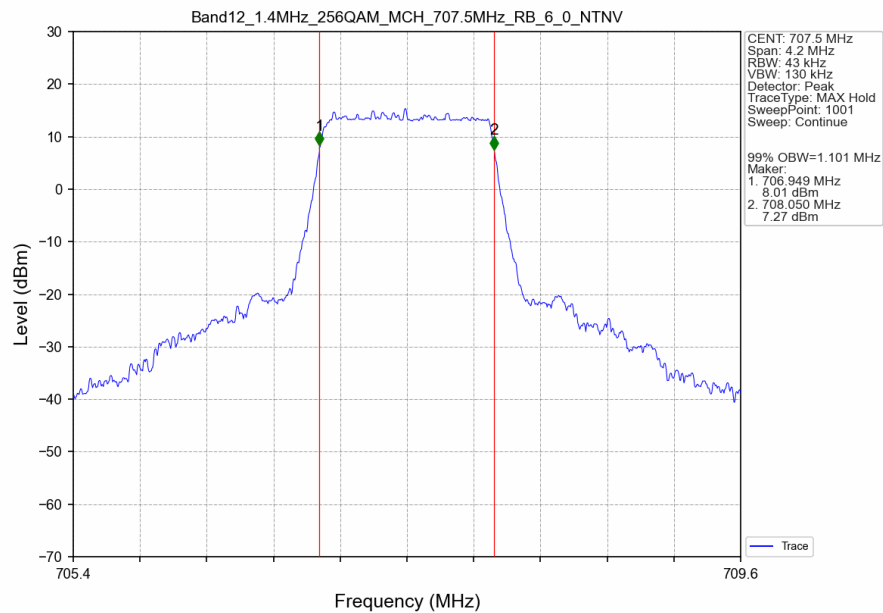
3.2 Test Graph

3.2.1 Band12_OBW

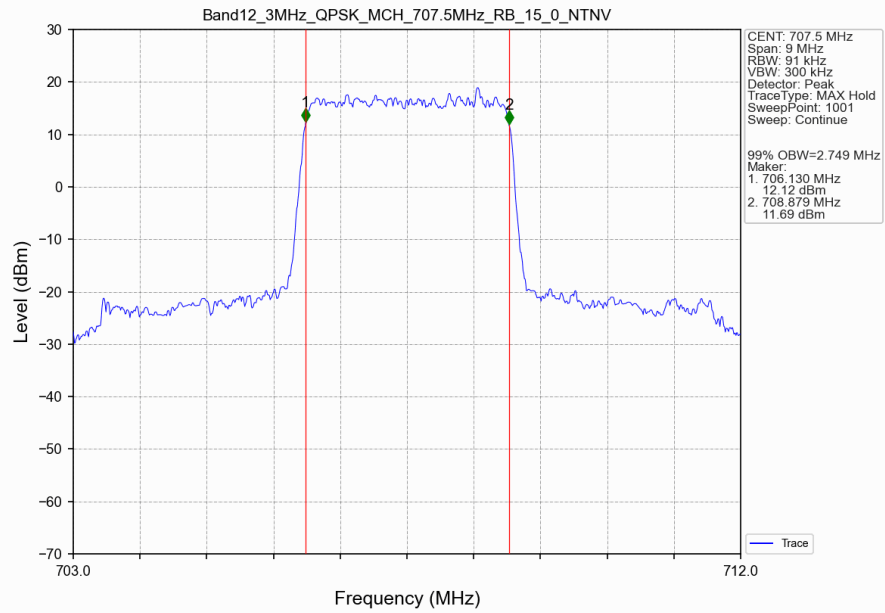




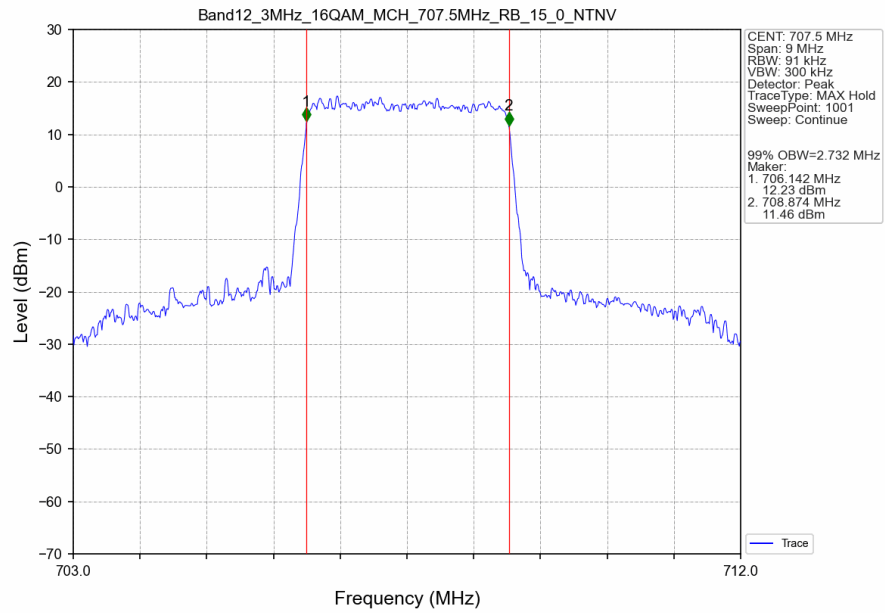
Band12_1.4MHz_256QAM_MCH_707.5MHz_RB_6_0_NTNV



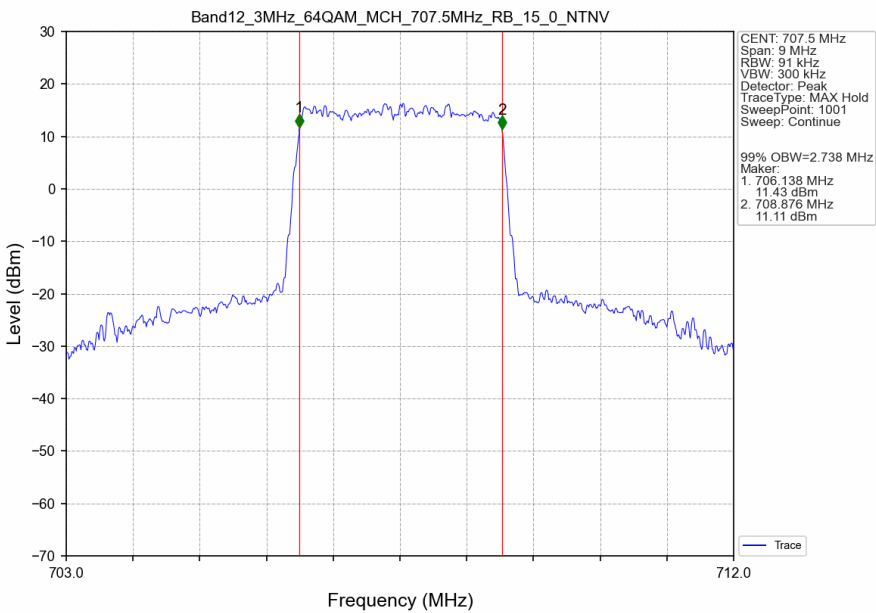
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



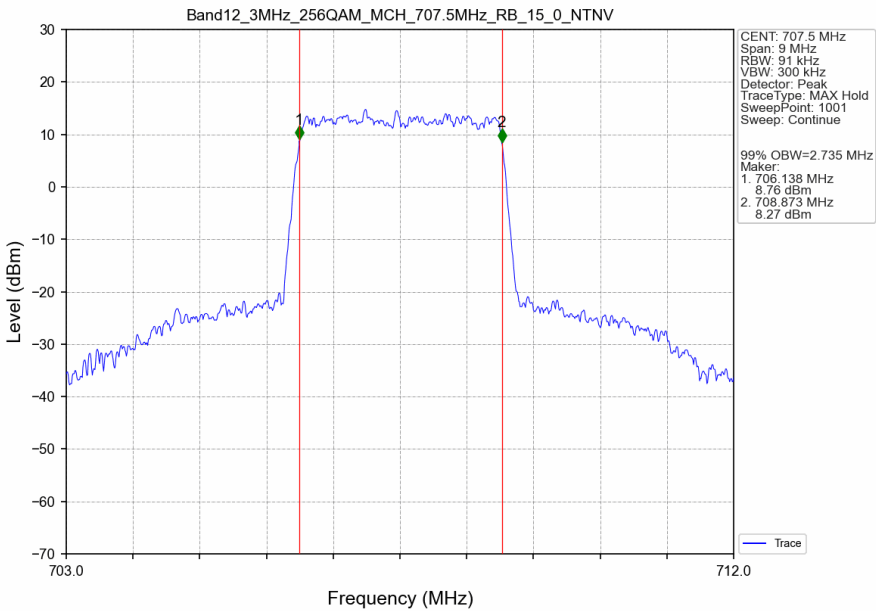
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



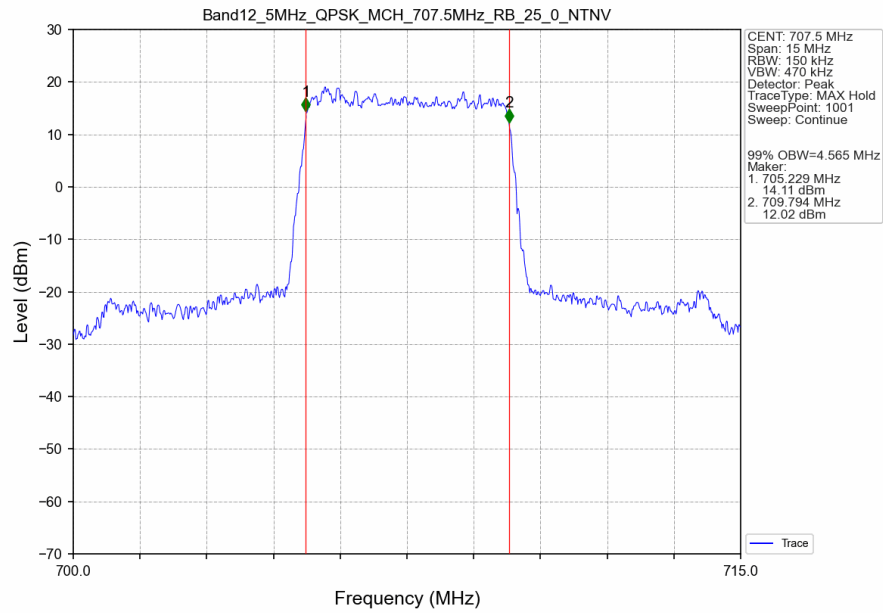
Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



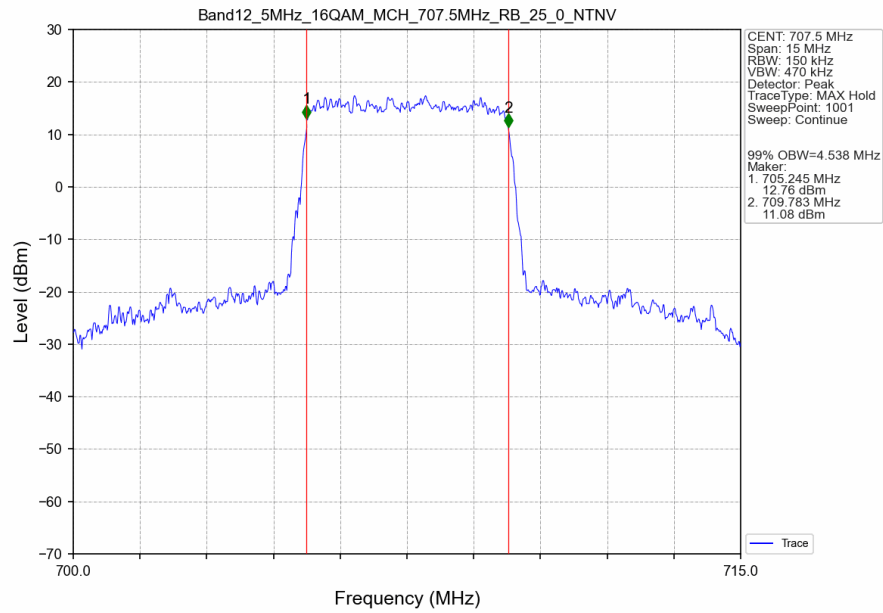
Band12_3MHz_256QAM_MCH_707.5MHz_RB_15_0_NTNV



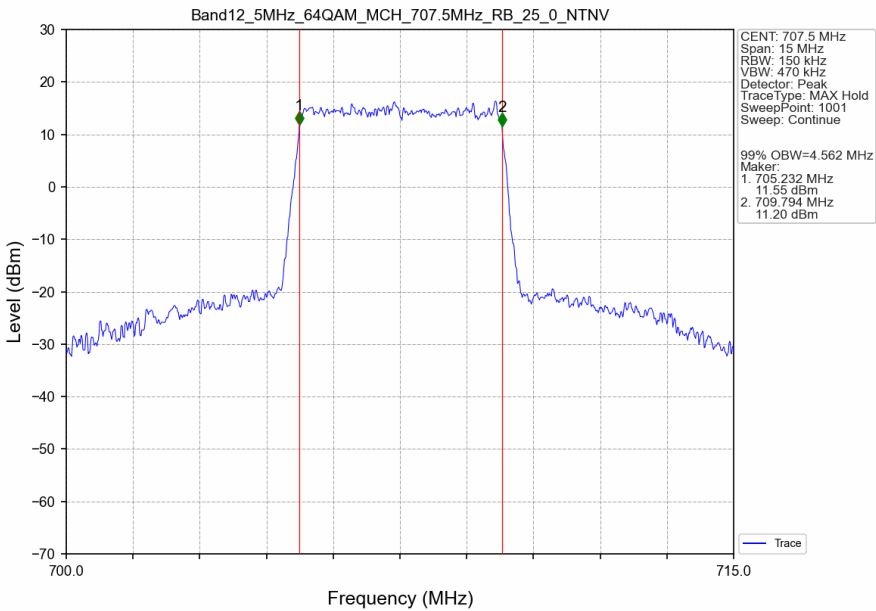
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



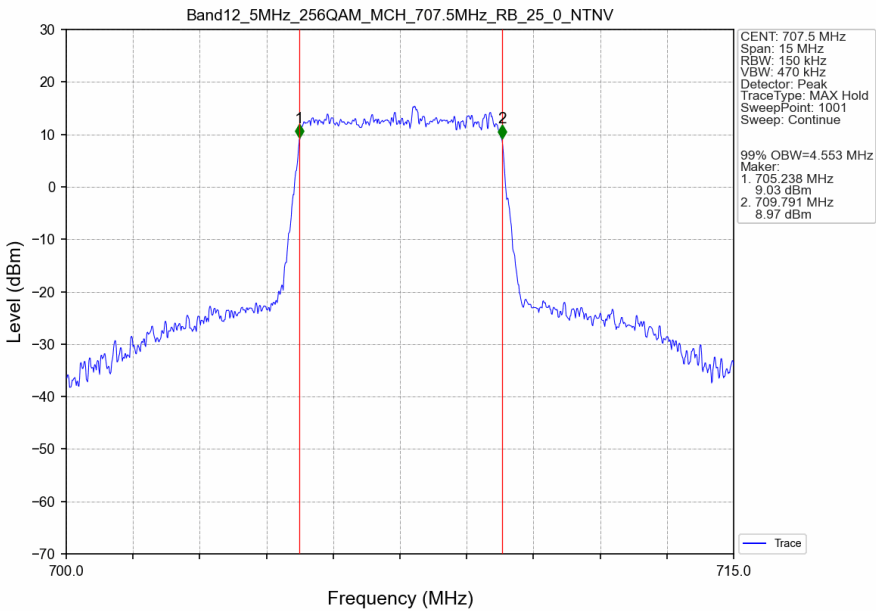
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



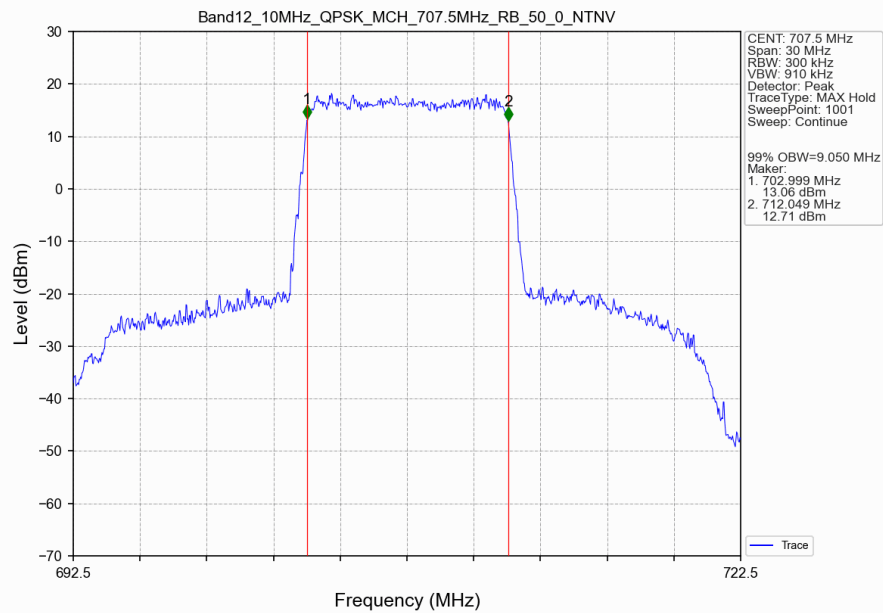
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



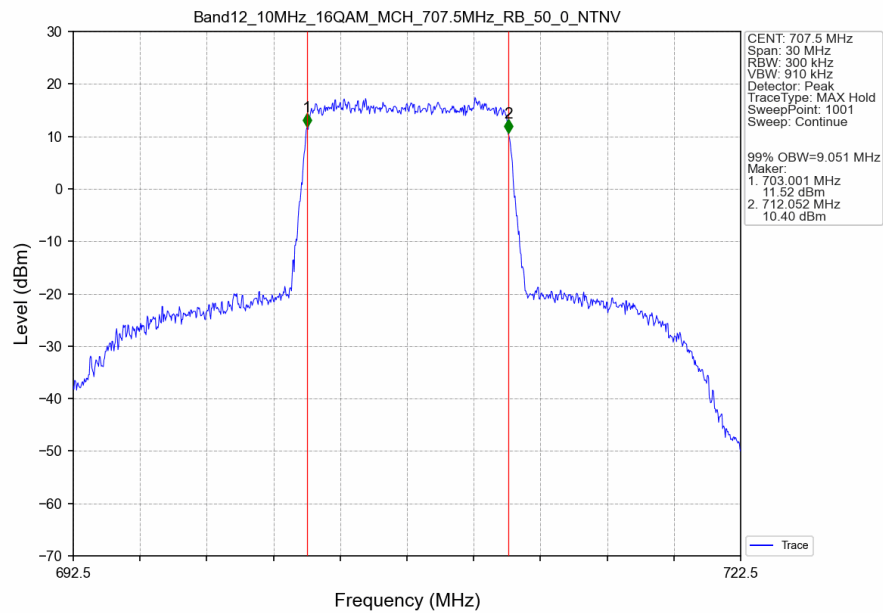
Band12_5MHz_256QAM_MCH_707.5MHz_RB_25_0_NTNV



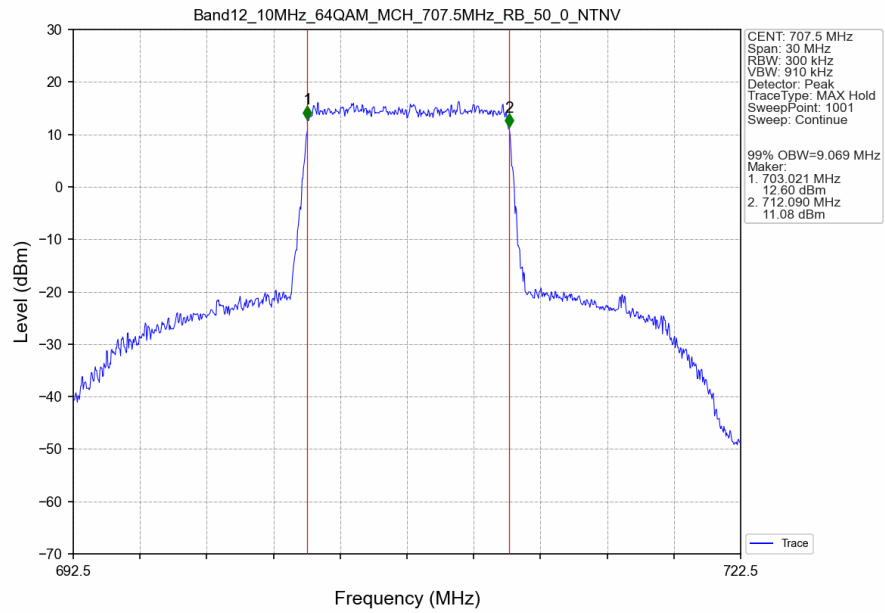
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



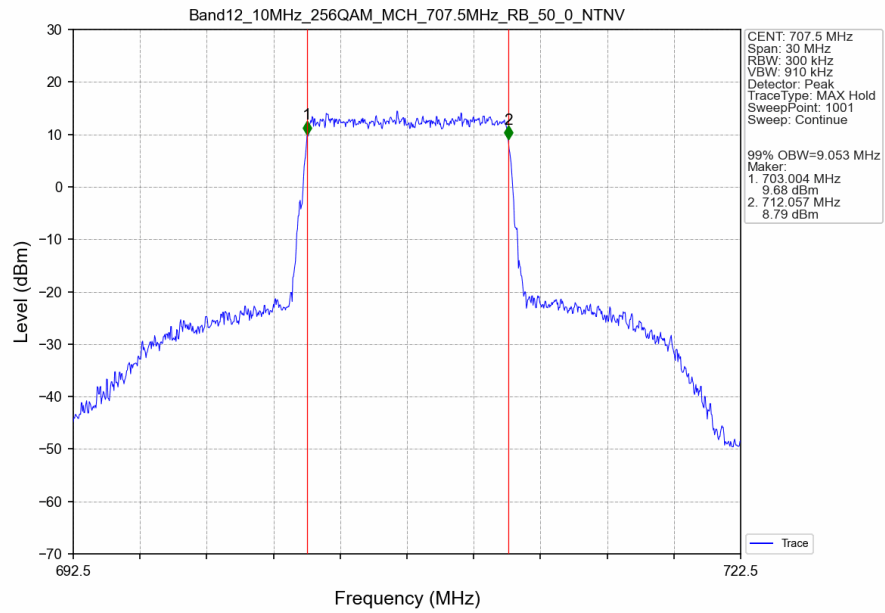
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



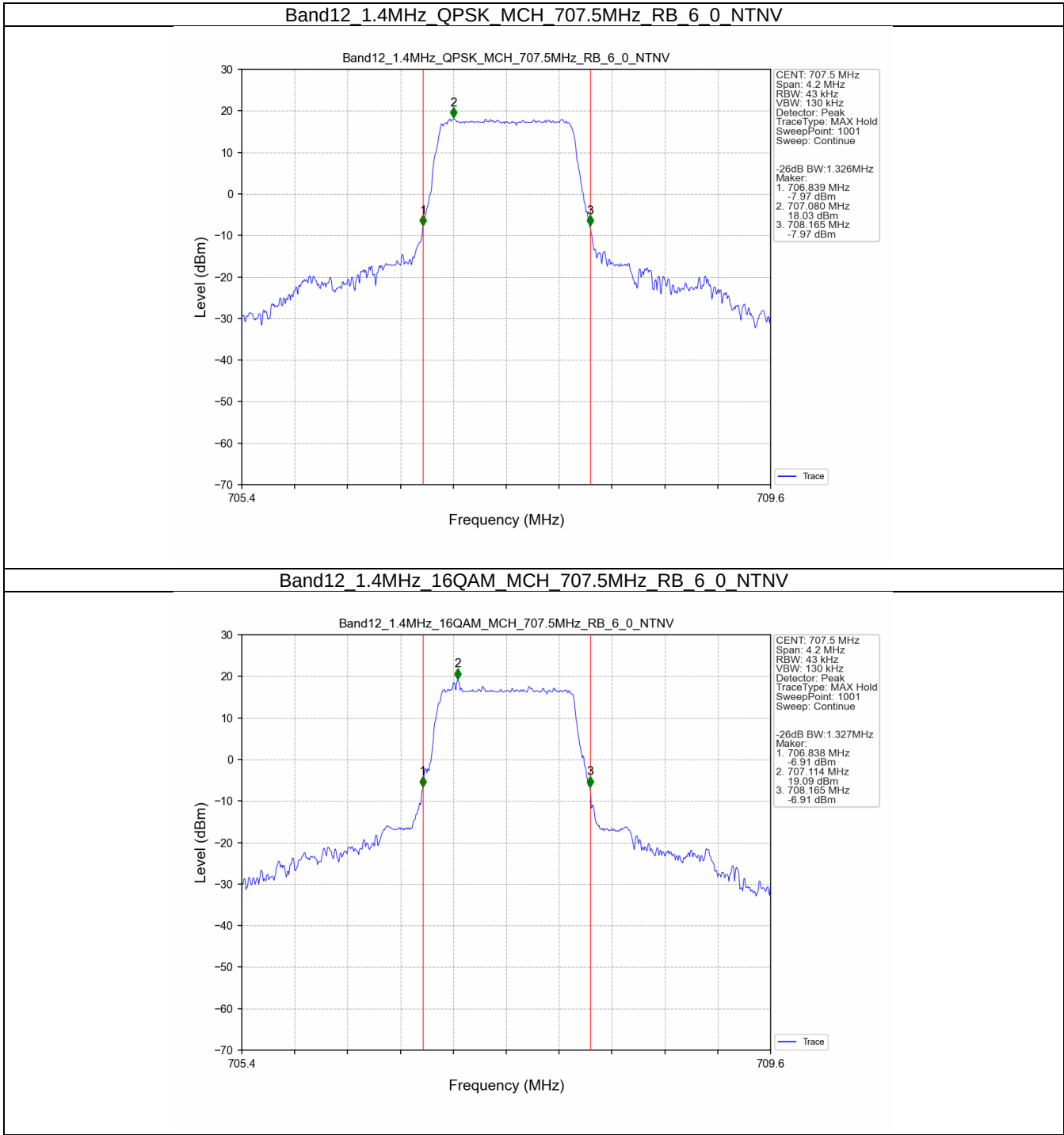
Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



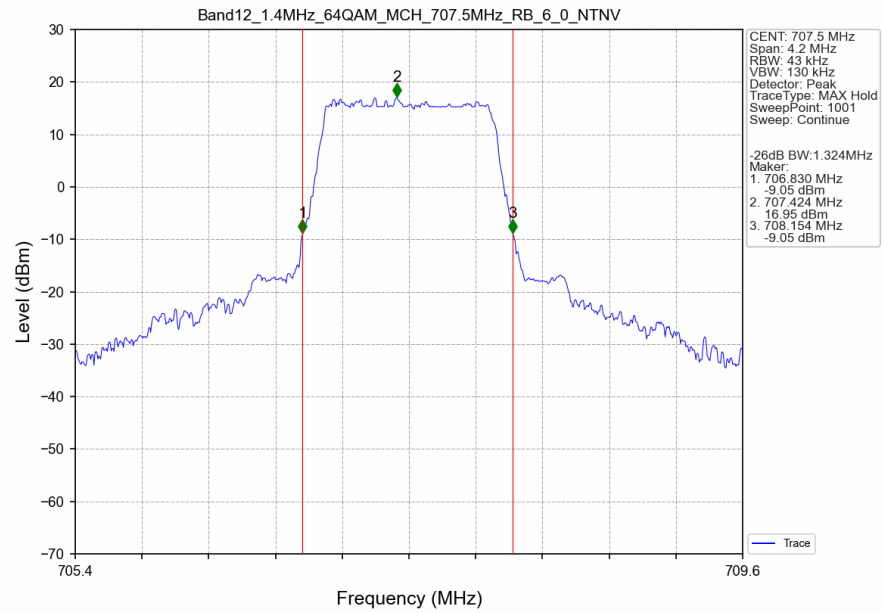
Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV



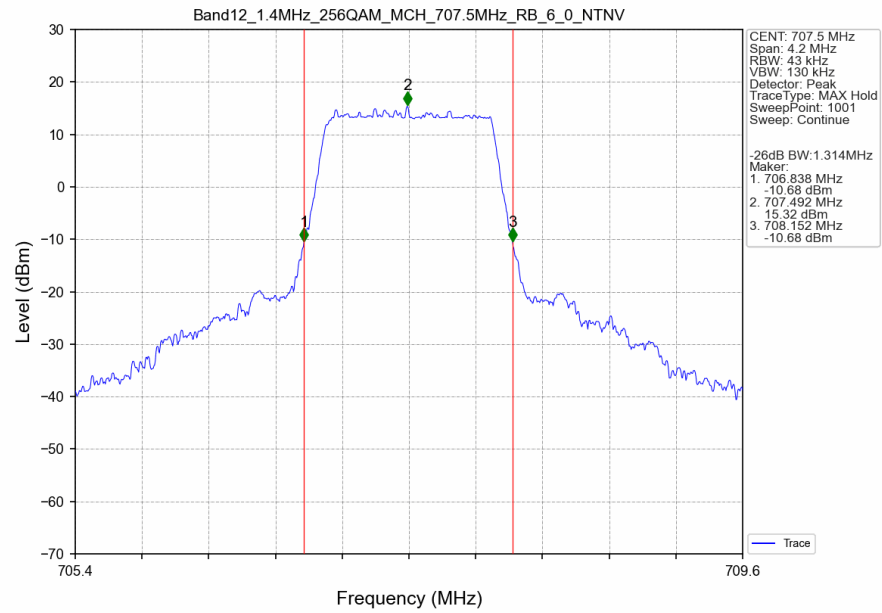
3.2.2 Band12_XDB



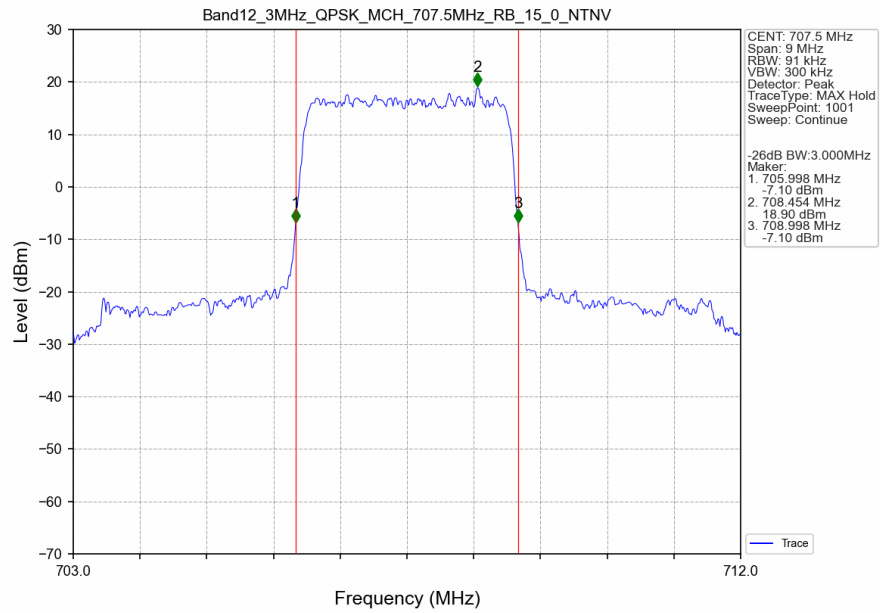
Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV



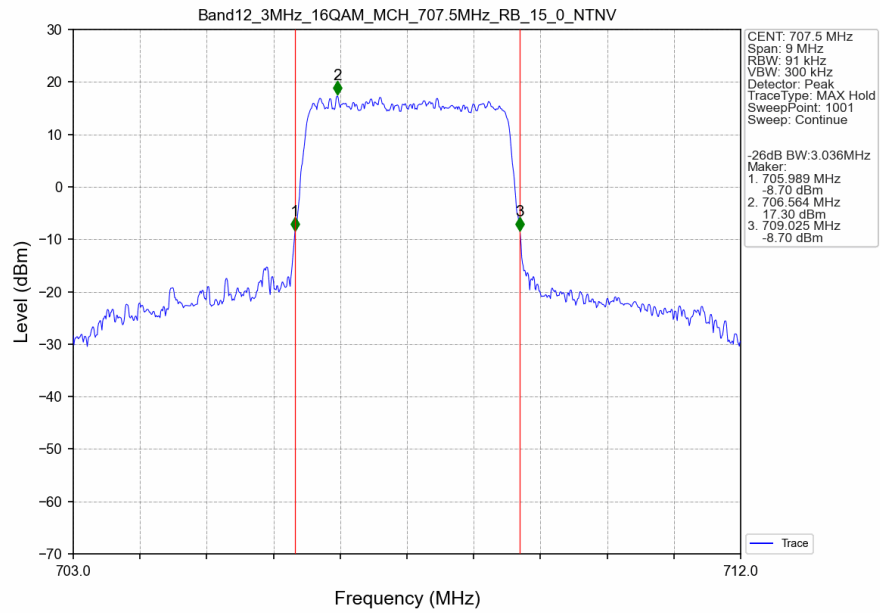
Band12_1.4MHz_256QAM_MCH_707.5MHz_RB_6_0_NTNV



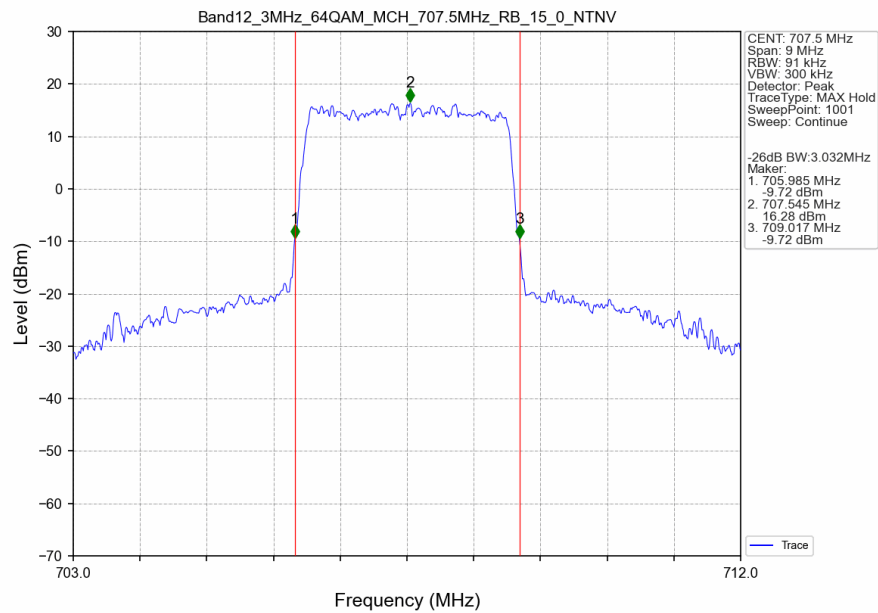
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



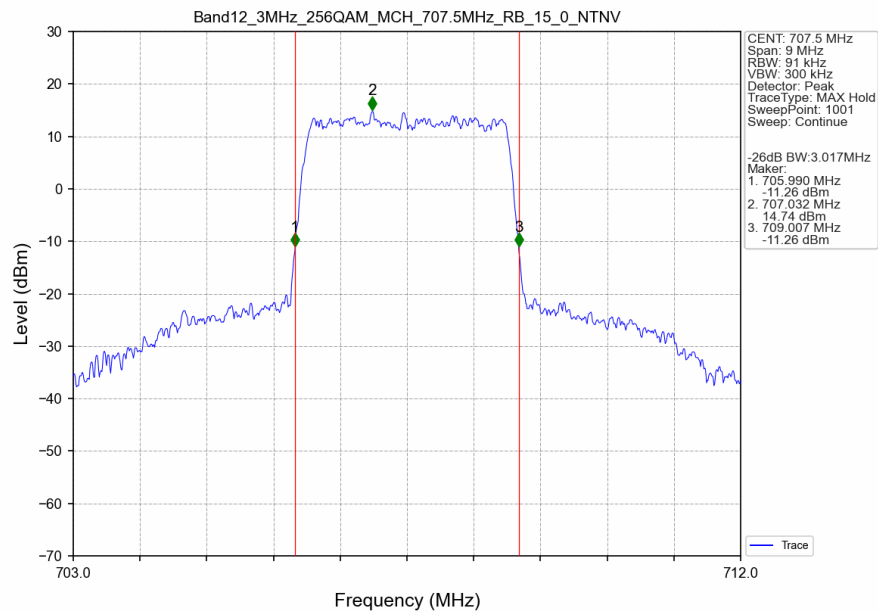
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



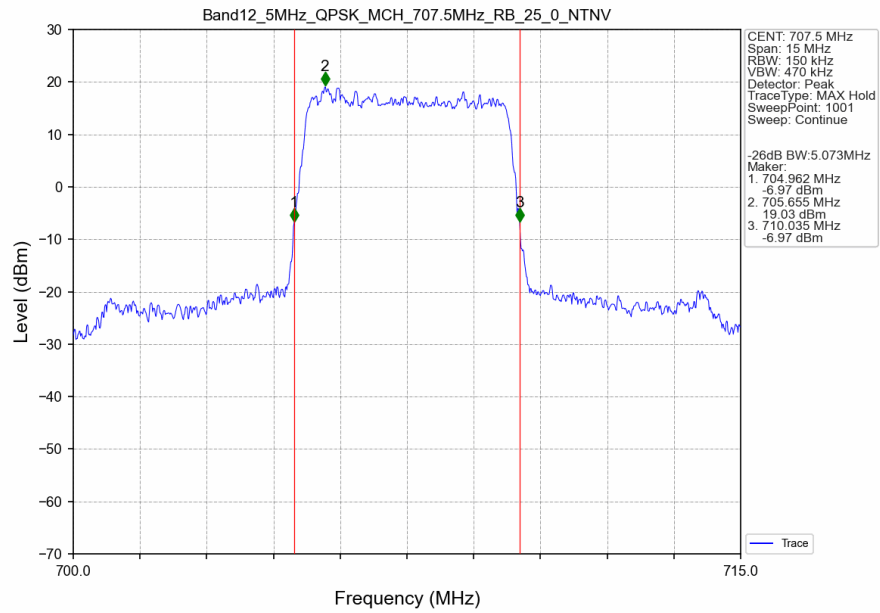
Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



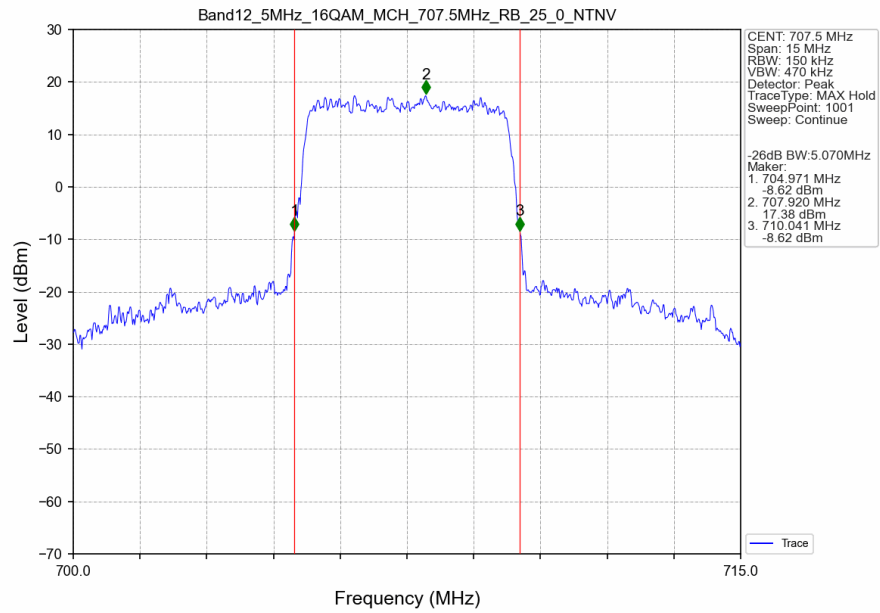
Band12_3MHz_256QAM_MCH_707.5MHz_RB_15_0_NTNV



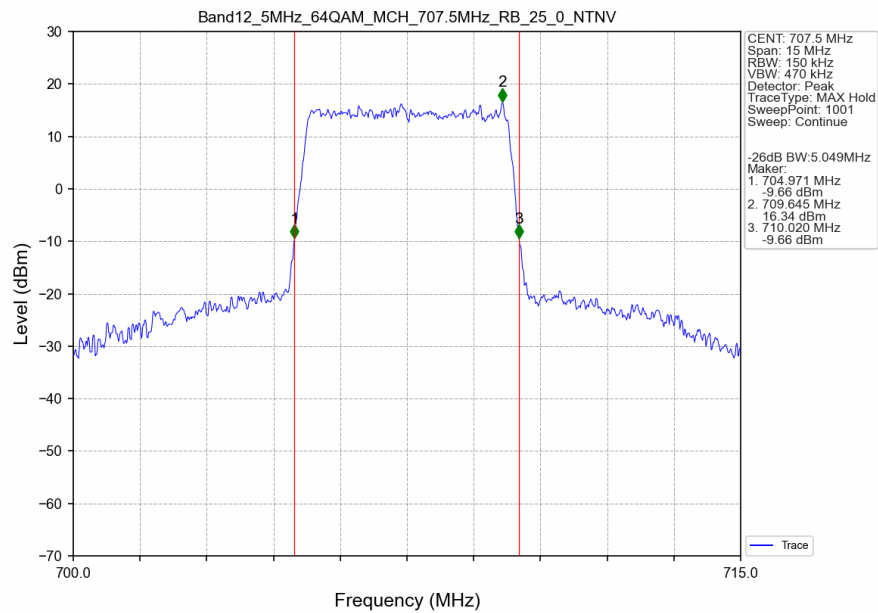
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



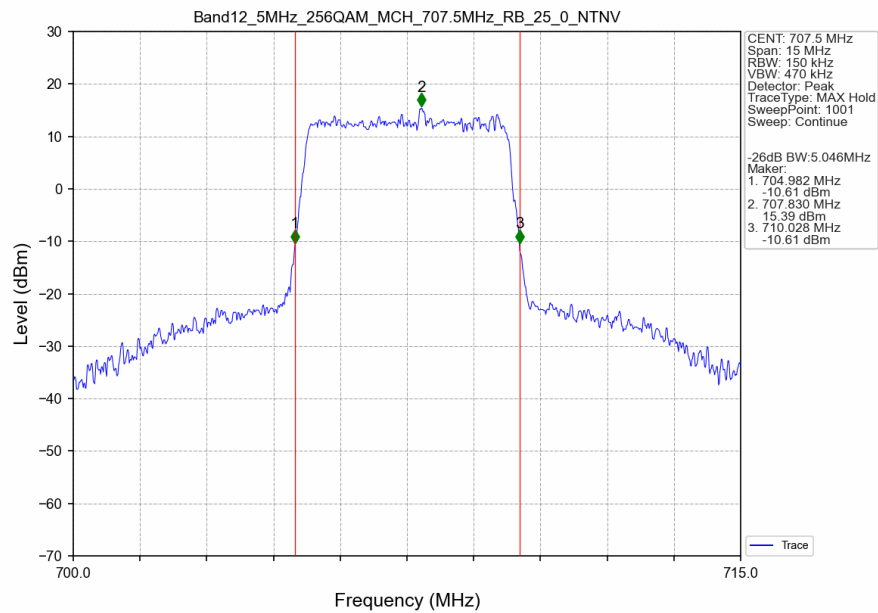
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



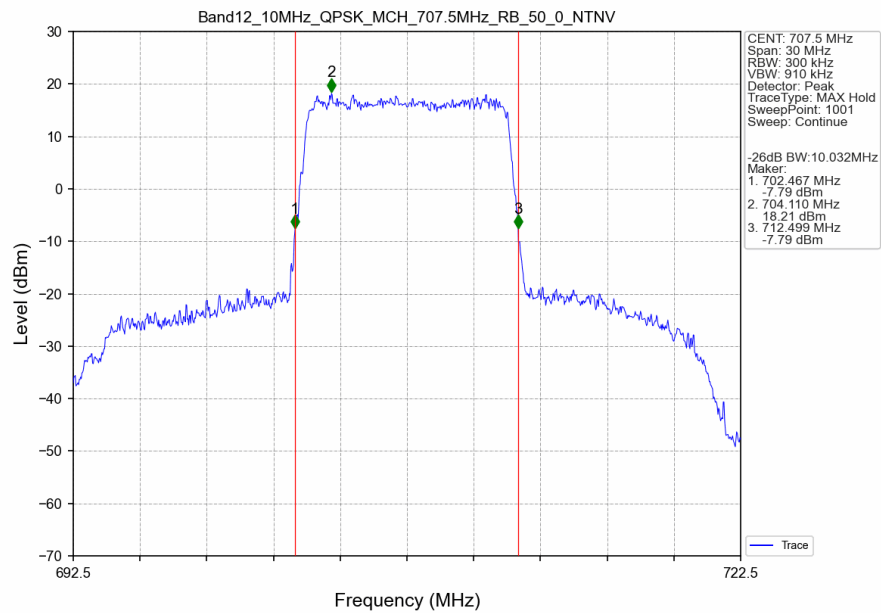
Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



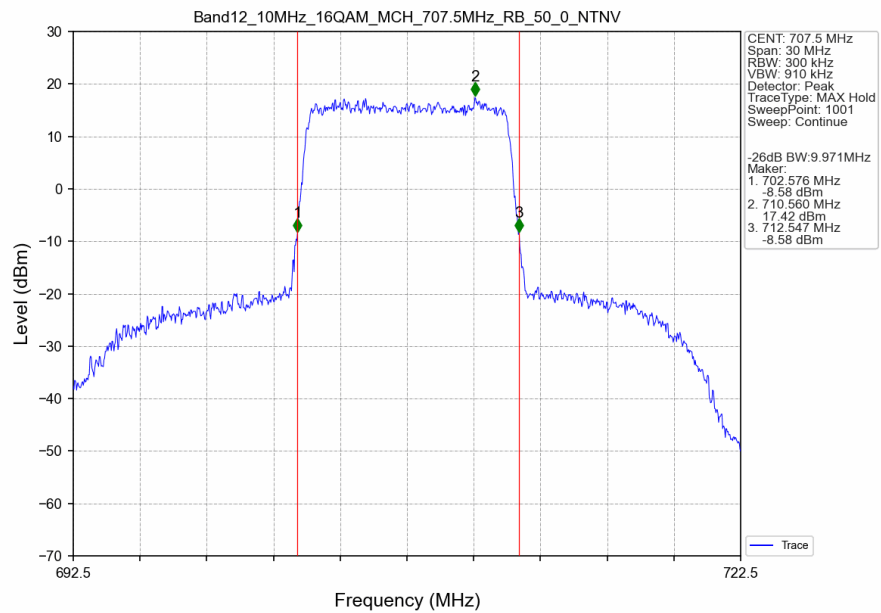
Band12_5MHz_256QAM_MCH_707.5MHz_RB_25_0_NTNV



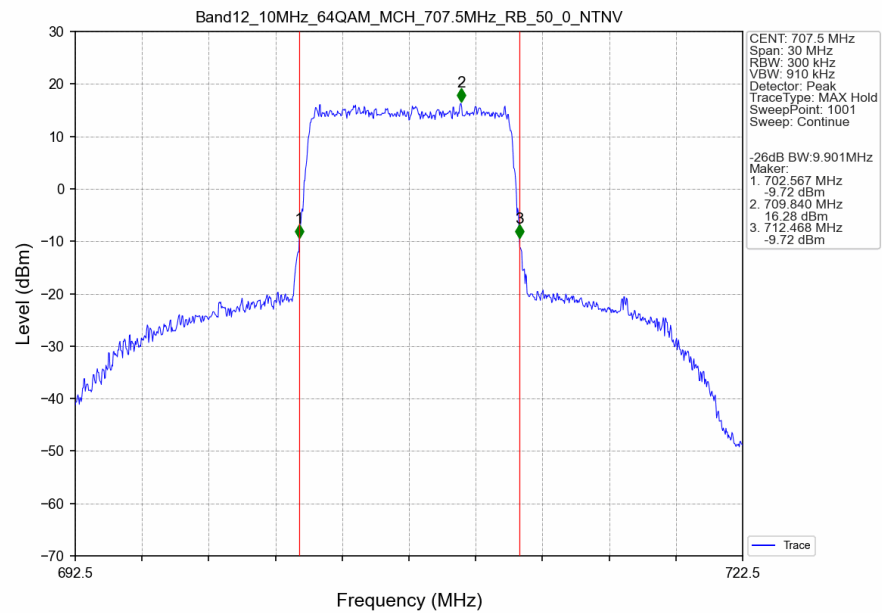
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



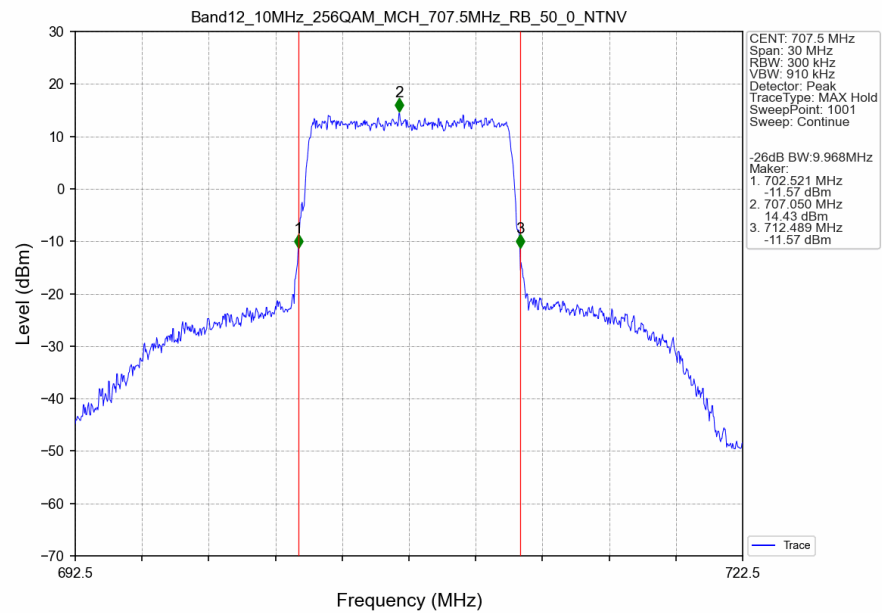
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV



4. Peak-Average Ratio

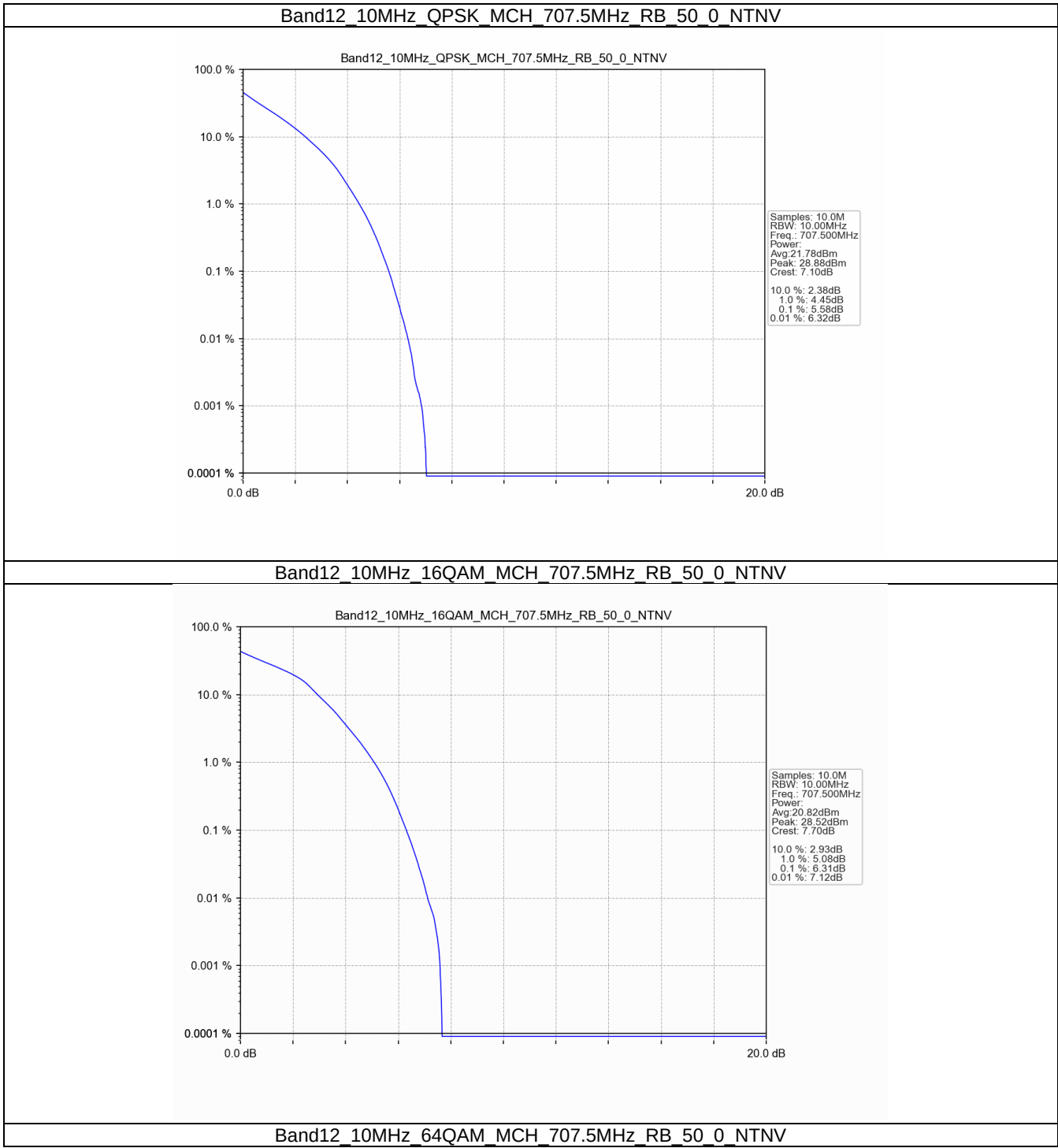
4.1 Test Result

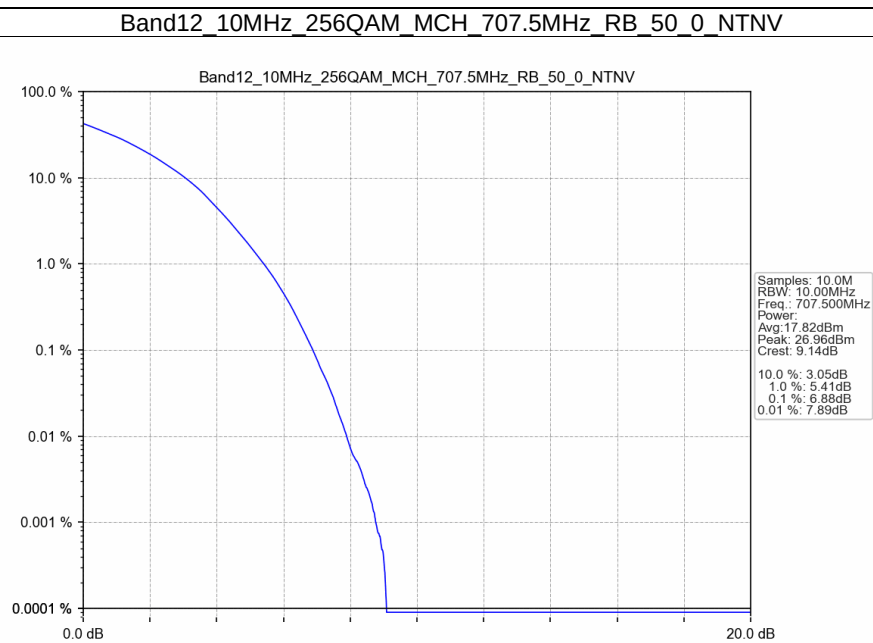
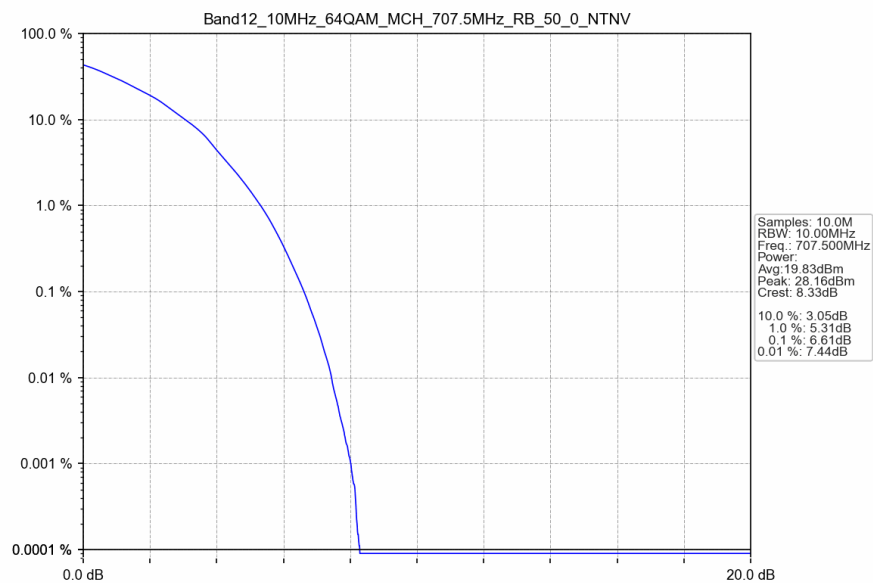
4.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	5.58	<=13	Pass
16QAM	707.5	50	0	6.31	<=13	Pass
64QAM	707.5	50	0	6.61	<=13	Pass
256QAM	707.5	50	0	6.88	<=13	Pass

4.2 Test Graph

4.2.1 B12_10MHz





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	
	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

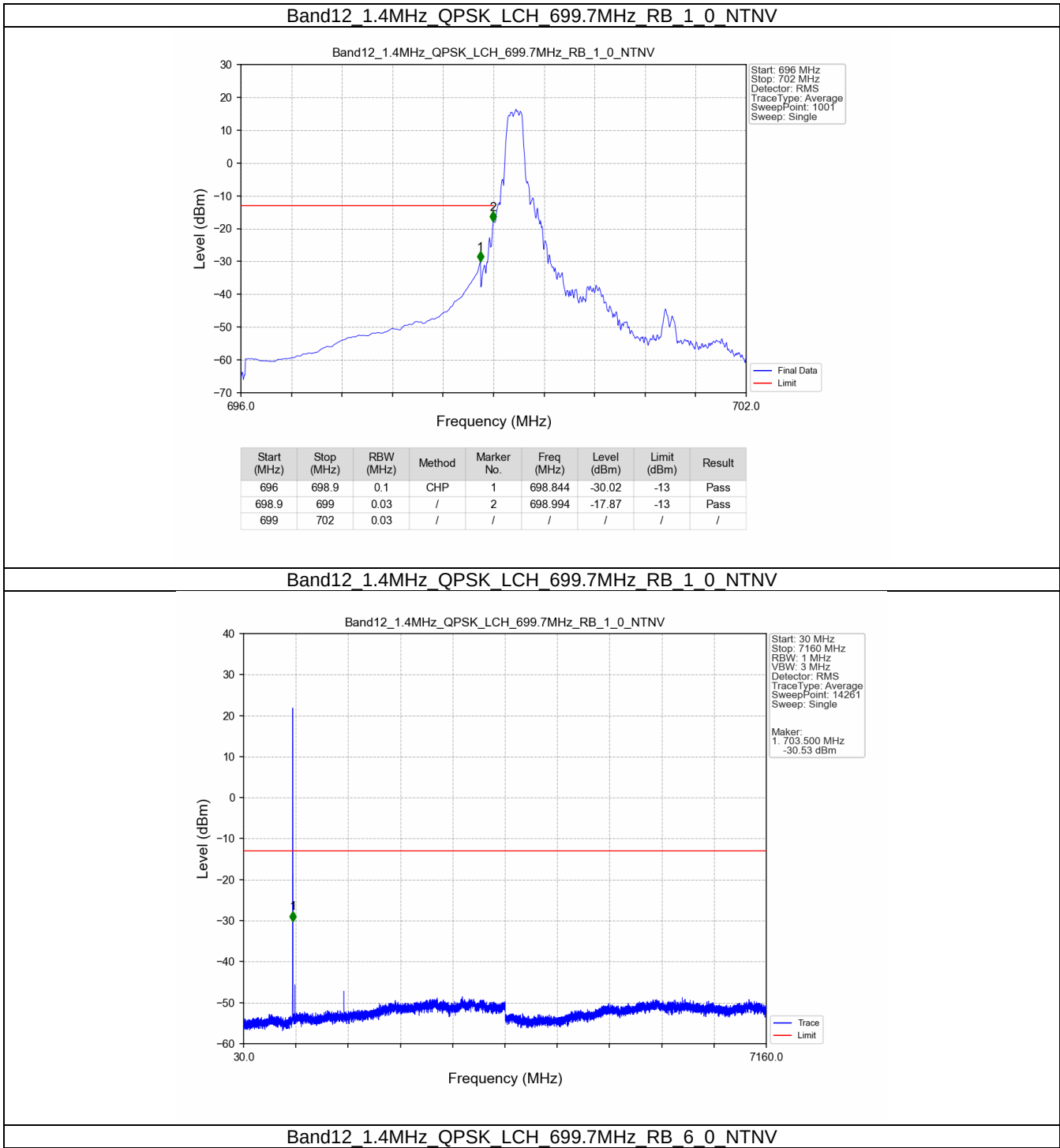
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

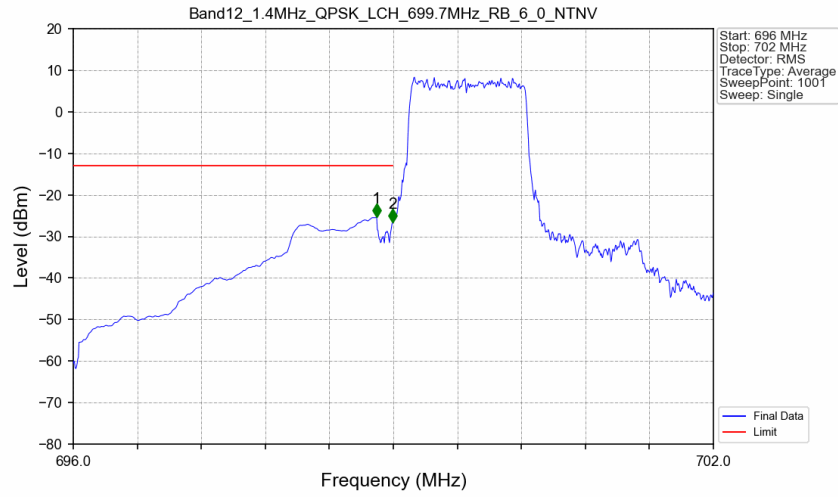
5.1.4 B12_10MHz

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

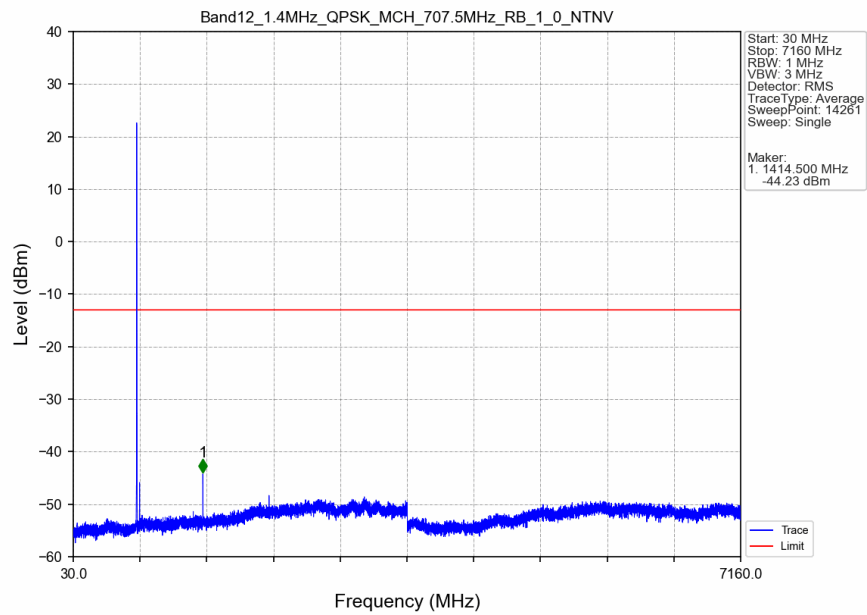
5.2.1 B12_1.4MHz



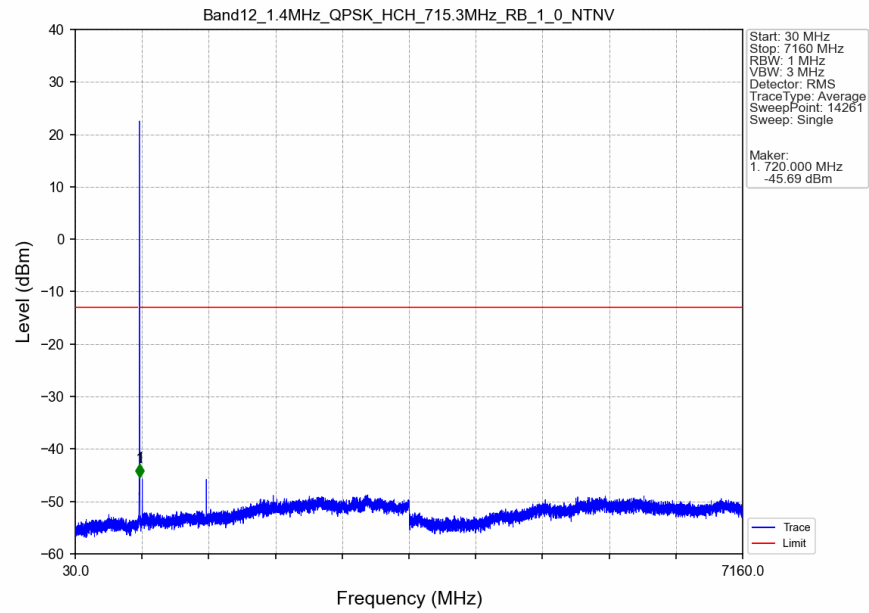


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-25.35	-13	Pass
698.9	699	0.03	/	2	698.994	-26.63	-13	Pass
699	702	0.03	/	/	/	/	/	/

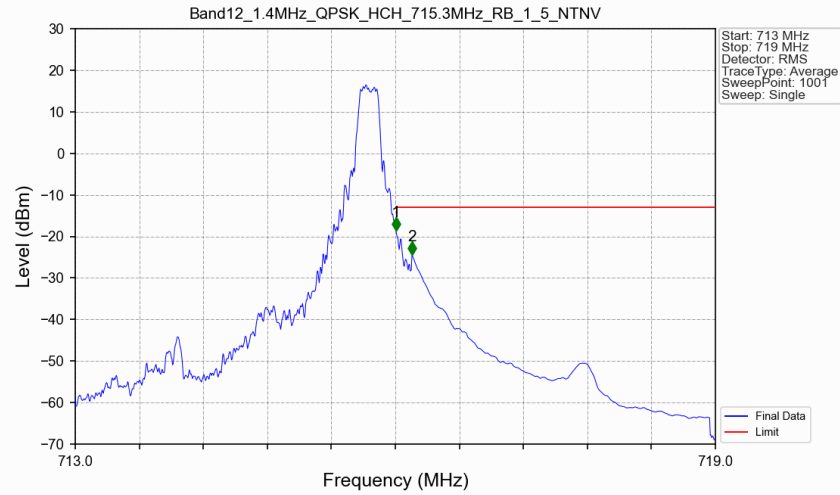
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

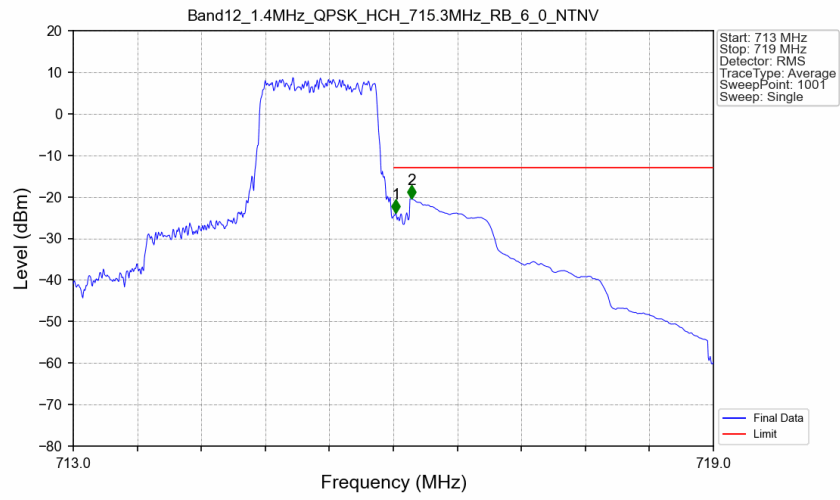


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



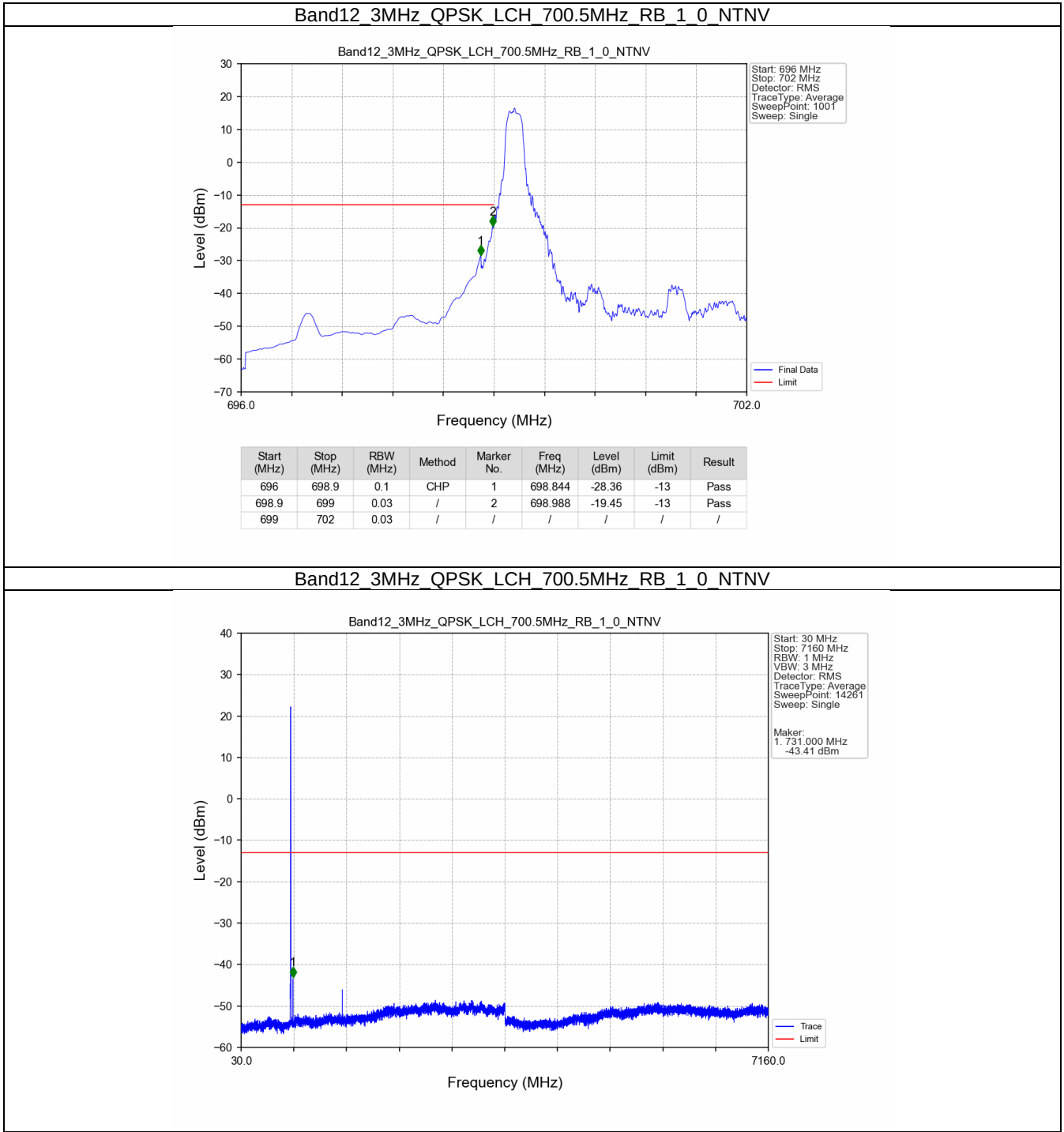
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-18.56	-13	Pass
716.1	719	0.1	CHP	2	716.156	-24.40	-13	Pass

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

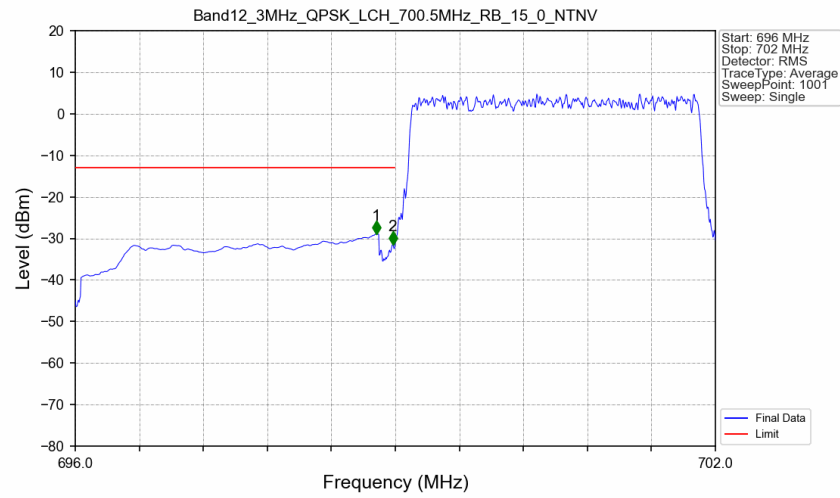


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-23.86	-13	Pass
716.1	719	0.1	CHP	2	716.168	-20.44	-13	Pass

5.2.2 B12_3MHz

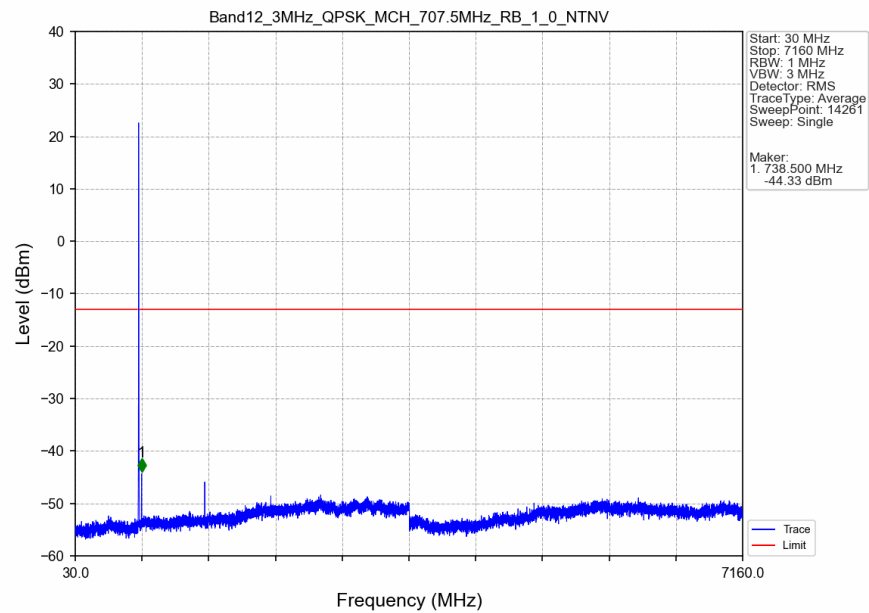


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

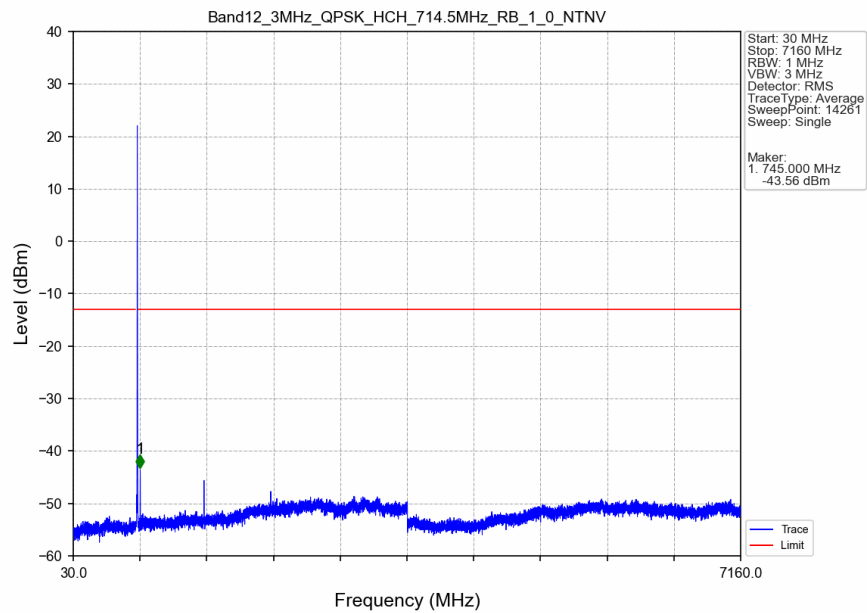


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.820	-28.93	-13	Pass
698.9	699	0.03	/	2	698.976	-31.44	-13	Pass
699	702	0.03	/	/	/	/	/	/

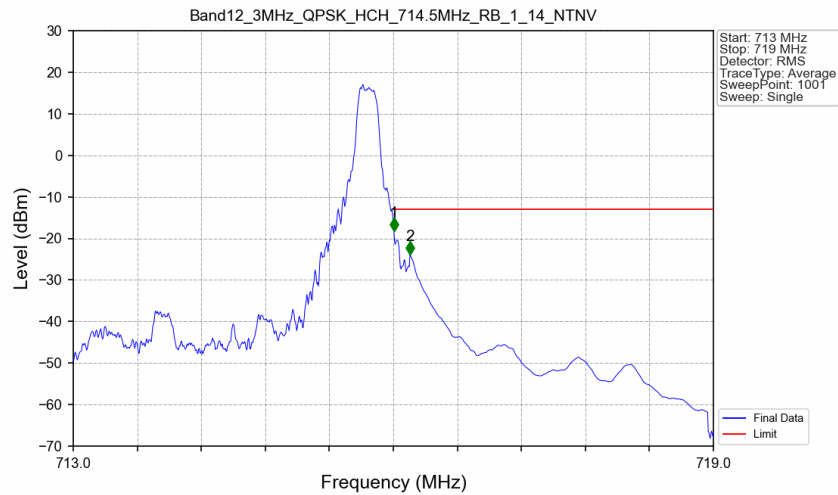
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

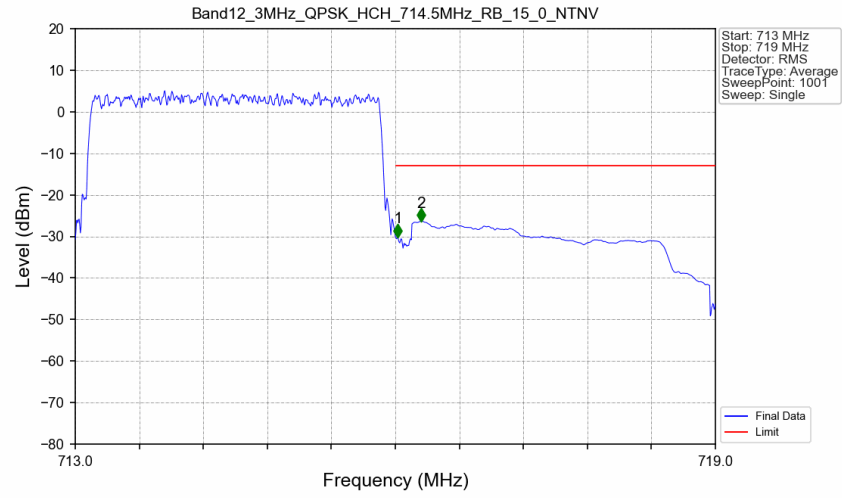


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



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	-18.19	-13	Pass
716.1	719	0.1	CHP	2	716.156	-23.84	-13	Pass

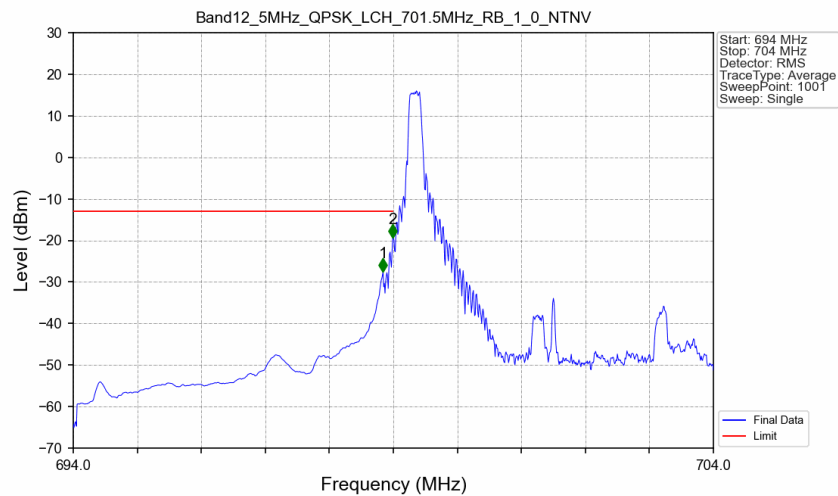
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-30.13	-13	Pass
716.1	719	0.1	CHP	2	716.240	-26.34	-13	Pass

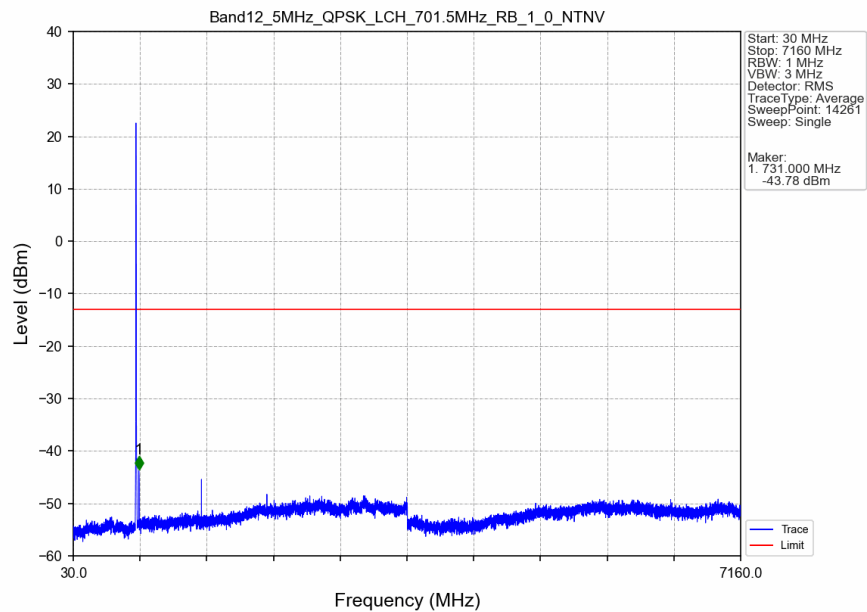
5.2.3 B12_5MHz

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

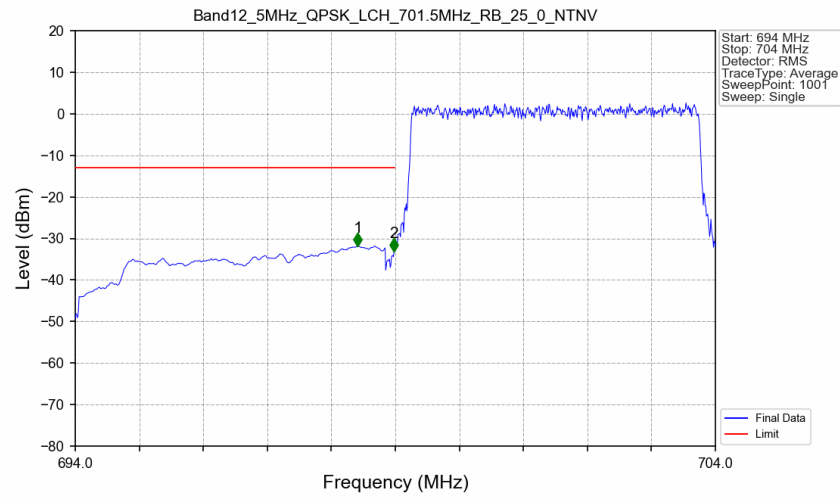


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-27.50	-13	Pass
698.9	699	0.03	/	2	698.990	-19.24	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

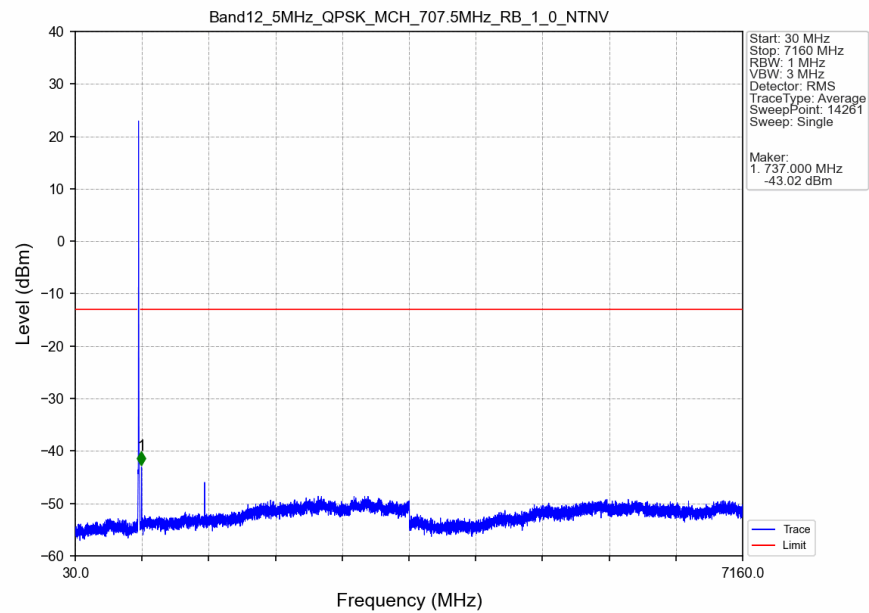


Band12 5MHz QPSK LCH 701.5MHz RB 25_0 NTNV

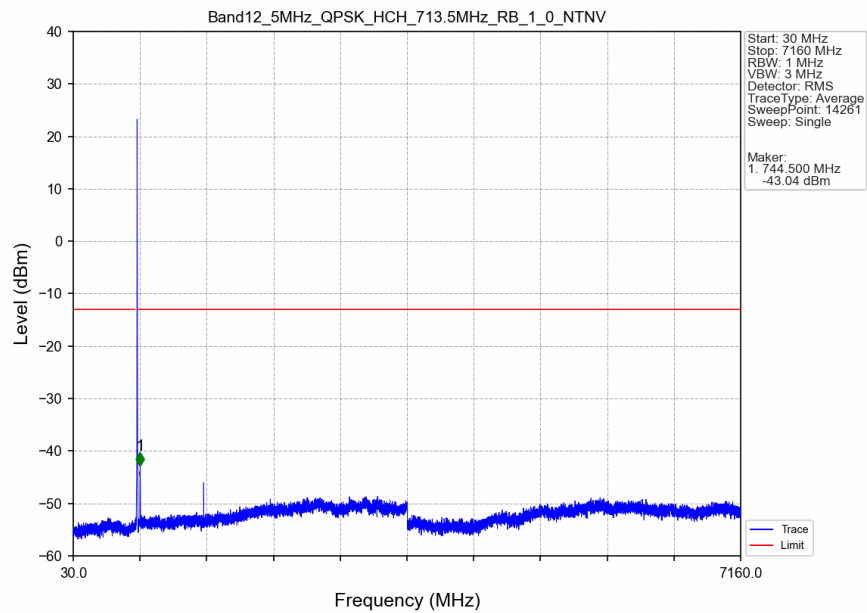


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.410	-31.91	-13	Pass
698.9	699	0.03	/	2	698.980	-33.05	-13	Pass
699	704	0.03	/	/	/	/	/	/

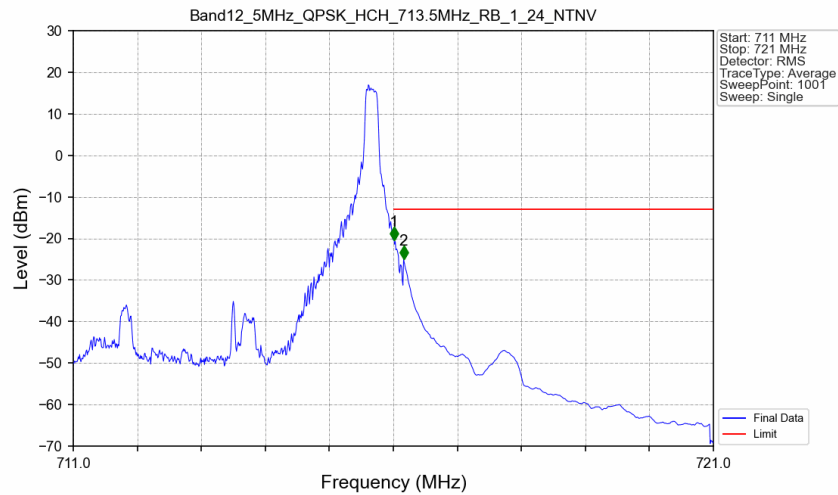
Band12 5MHz QPSK MCH 707.5MHz RB 1_0 NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

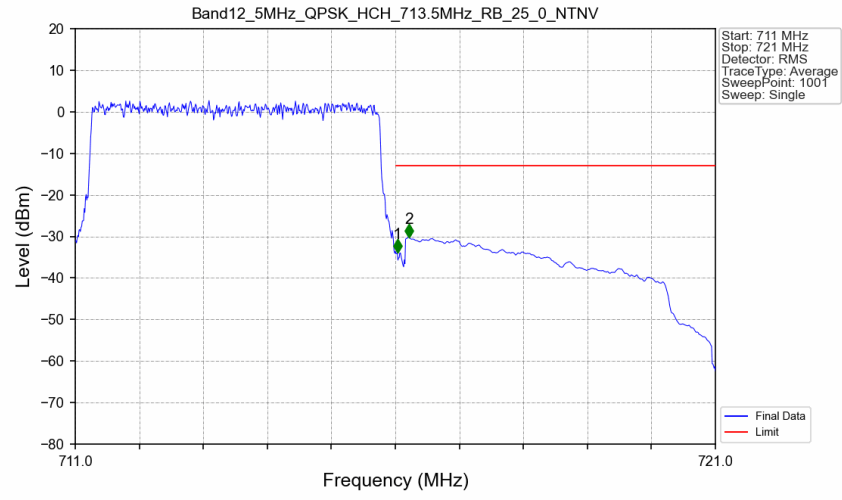


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



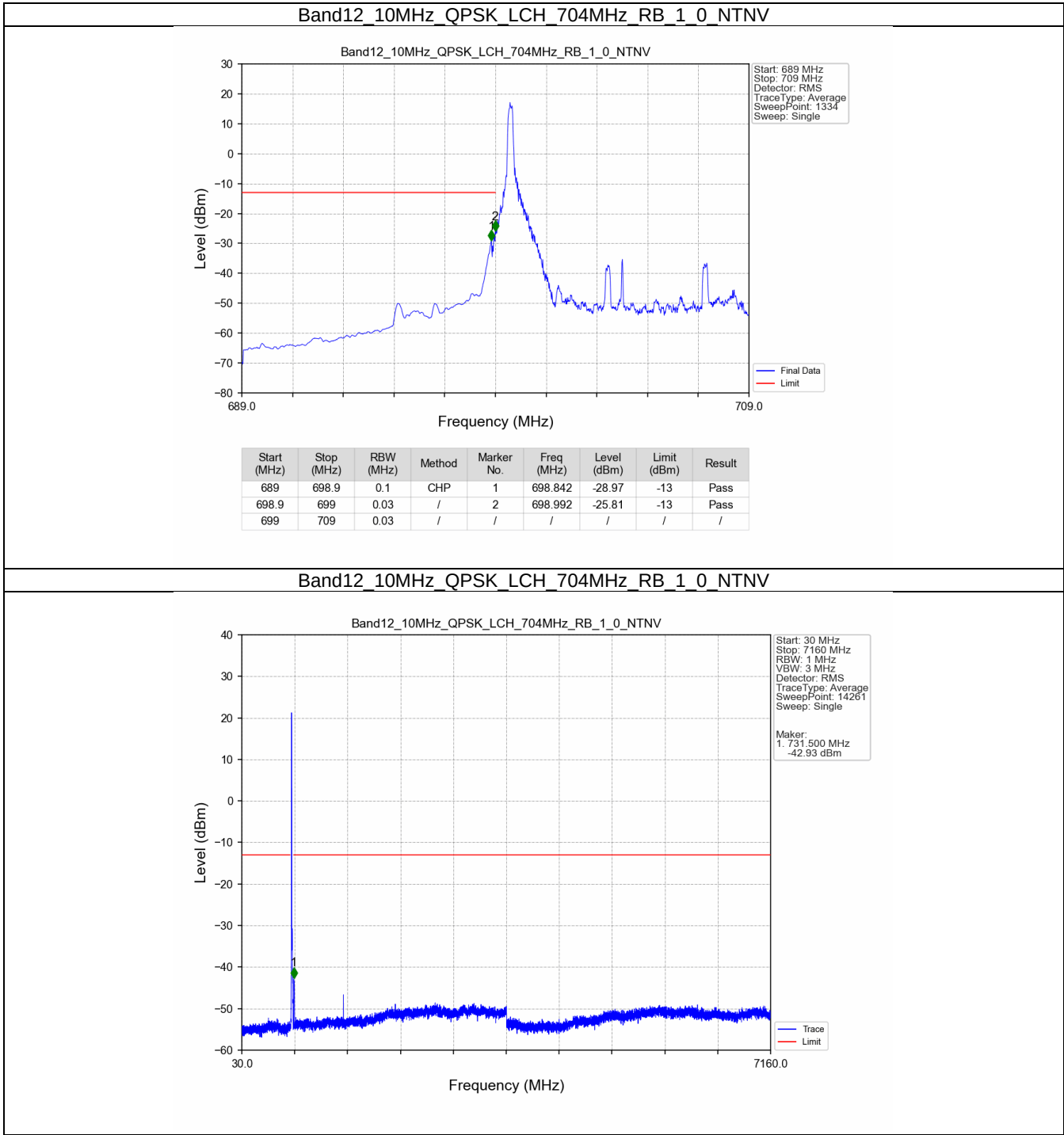
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-20.32	-13	Pass
716.1	721	0.1	CHP	2	716.160	-25.00	-13	Pass

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

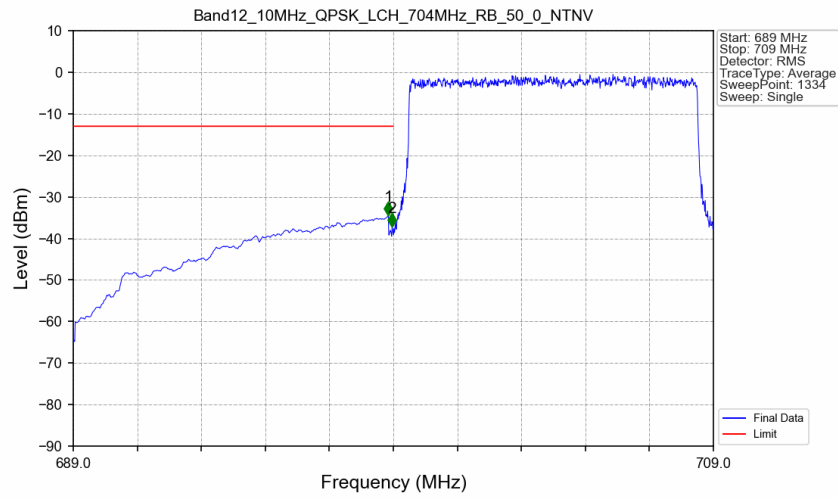


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-33.87	-13	Pass
716.1	721	0.1	CHP	2	716.210	-30.16	-13	Pass

5.2.4 B12_10MHz

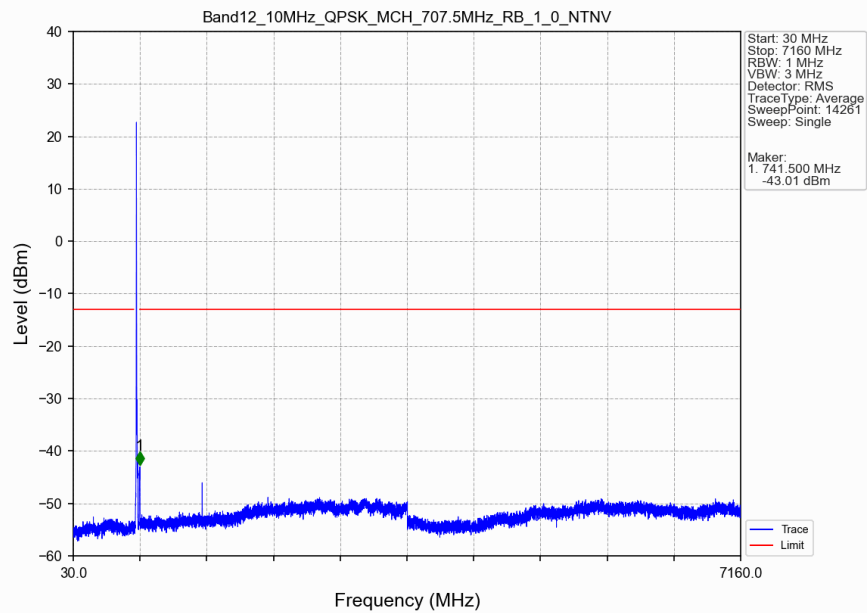


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

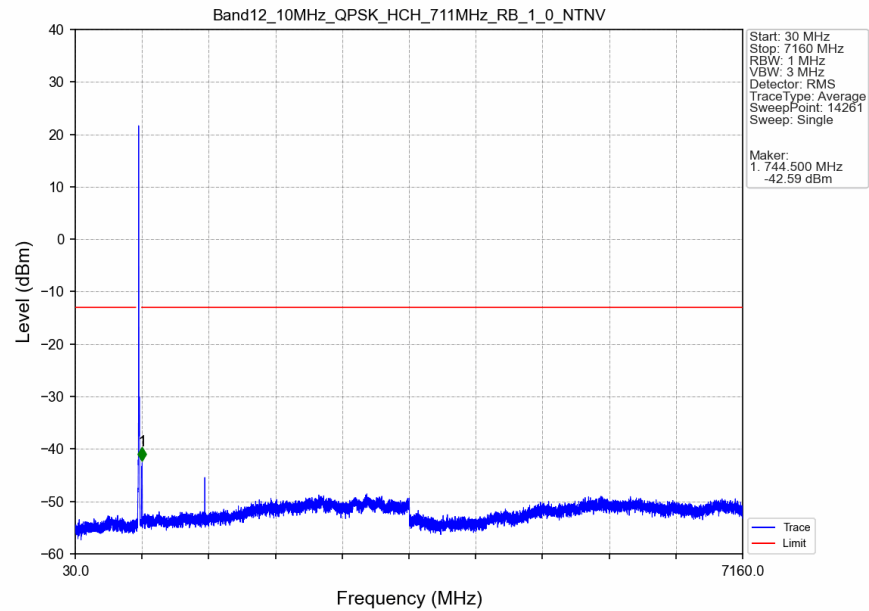


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-34.36	-13	Pass
698.9	699	0.03	/	2	698.962	-37.12	-13	Pass
699	709	0.03	/	/	/	/	/	/

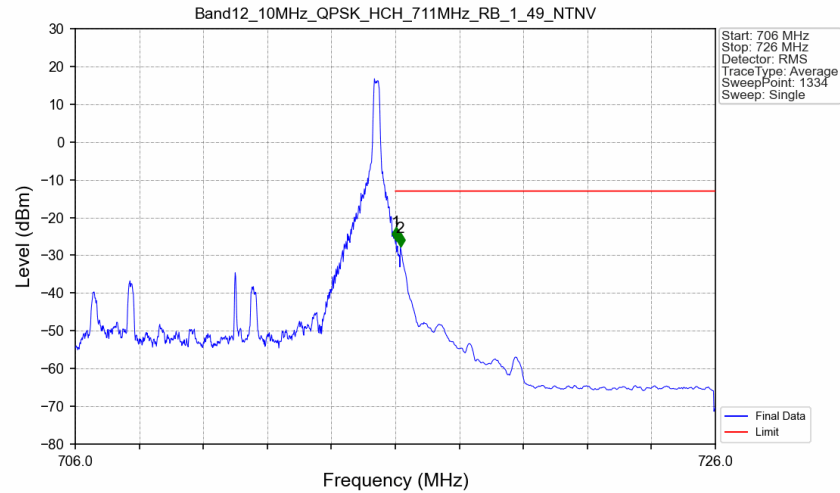
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

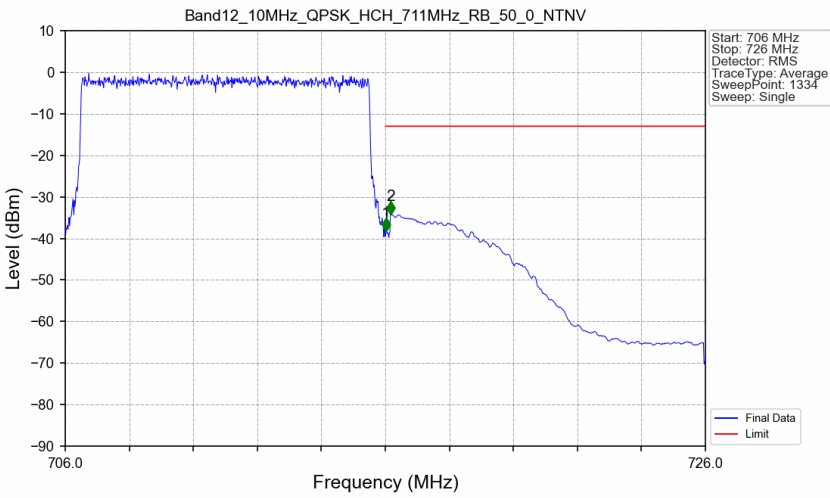


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-26.01	-13	Pass
716.1	726	0.1	CHP	2	716.158	-27.72	-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	716.023	-38.16	-13	Pass
716.1	726	0.1	CHP	2	716.173	-34.14	-13	Pass