

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	23.33	-4.96	16.22	<=34.77	Pass
			2	23.36	-4.96	16.25	<=34.77	Pass
			5	23.37	-4.96	16.26	<=34.77	Pass
		3	0	23.32	-4.96	16.21	<=34.77	Pass
			2	23.35	-4.96	16.24	<=34.77	Pass
			3	23.36	-4.96	16.25	<=34.77	Pass
		6	0	22.38	-4.96	15.27	<=34.77	Pass
	707.5	1	0	23.39	-4.96	16.28	<=34.77	Pass
			2	23.42	-4.96	16.31	<=34.77	Pass
			5	23.45	-4.96	16.34	<=34.77	Pass
		3	0	23.42	-4.96	16.31	<=34.77	Pass
			2	23.44	-4.96	16.33	<=34.77	Pass
			3	23.45	-4.96	16.34	<=34.77	Pass
		6	0	22.41	-4.96	15.30	<=34.77	Pass
	715.3	1	0	23.54	-4.96	16.43	<=34.77	Pass
			2	23.48	-4.96	16.37	<=34.77	Pass
			5	23.53	-4.96	16.42	<=34.77	Pass
		3	0	23.60	-4.96	16.49	<=34.77	Pass
			2	23.59	-4.96	16.48	<=34.77	Pass
			3	23.60	-4.96	16.49	<=34.77	Pass
		6	0	22.65	-4.96	15.54	<=34.77	Pass
16QAM	699.7	1	0	22.50	-4.96	15.39	<=34.77	Pass
			2	22.54	-4.96	15.43	<=34.77	Pass
			5	22.52	-4.96	15.41	<=34.77	Pass
		3	0	22.31	-4.96	15.20	<=34.77	Pass
			2	22.31	-4.96	15.20	<=34.77	Pass
			3	22.30	-4.96	15.19	<=34.77	Pass
		6	0	21.43	-4.96	14.32	<=34.77	Pass
	707.5	1	0	22.44	-4.96	15.33	<=34.77	Pass
			2	22.43	-4.96	15.32	<=34.77	Pass
			5	22.47	-4.96	15.36	<=34.77	Pass
		3	0	22.46	-4.96	15.35	<=34.77	Pass
			2	22.44	-4.96	15.33	<=34.77	Pass
			3	22.48	-4.96	15.37	<=34.77	Pass
		6	0	21.40	-4.96	14.29	<=34.77	Pass
	715.3	1	0	22.68	-4.96	15.57	<=34.77	Pass
			2	22.68	-4.96	15.57	<=34.77	Pass
			5	22.70	-4.96	15.59	<=34.77	Pass
		3	0	22.82	-4.96	15.71	<=34.77	Pass
			2	22.82	-4.96	15.71	<=34.77	Pass
			3	22.87	-4.96	15.76	<=34.77	Pass
		6	0	21.76	-4.96	14.65	<=34.77	Pass
64QAM	699.7	1	0	21.64	-4.96	14.53	<=34.77	Pass
			2	21.62	-4.96	14.51	<=34.77	Pass
			5	21.58	-4.96	14.47	<=34.77	Pass
		3	0	21.53	-4.96	14.42	<=34.77	Pass
			2	21.49	-4.96	14.38	<=34.77	Pass
			3	21.49	-4.96	14.38	<=34.77	Pass
		6	0	20.73	-4.96	13.62	<=34.77	Pass

	707.5	1	0	21.73	-4.96	14.62	<=34.77	Pass
			2	21.71	-4.96	14.60	<=34.77	Pass
			5	21.78	-4.96	14.67	<=34.77	Pass
		3	0	21.37	-4.96	14.26	<=34.77	Pass
			2	21.37	-4.96	14.26	<=34.77	Pass
			3	21.38	-4.96	14.27	<=34.77	Pass
		6	0	20.53	-4.96	13.42	<=34.77	Pass
	715.3	1	0	22.16	-4.96	15.05	<=34.77	Pass
			2	22.18	-4.96	15.07	<=34.77	Pass
			5	22.18	-4.96	15.07	<=34.77	Pass
		3	0	21.96	-4.96	14.85	<=34.77	Pass
			2	21.96	-4.96	14.85	<=34.77	Pass
			3	21.97	-4.96	14.86	<=34.77	Pass
		6	0	20.69	-4.96	13.58	<=34.77	Pass
256QAM	699.7	1	0	18.25	-4.96	11.14	<=34.77	Pass
			2	18.21	-4.96	11.10	<=34.77	Pass
			5	18.23	-4.96	11.12	<=34.77	Pass
		3	0	18.24	-4.96	11.13	<=34.77	Pass
			2	18.25	-4.96	11.14	<=34.77	Pass
			3	18.24	-4.96	11.13	<=34.77	Pass
		6	0	18.46	-4.96	11.35	<=34.77	Pass
	707.5	1	0	18.52	-4.96	11.41	<=34.77	Pass
			2	18.57	-4.96	11.46	<=34.77	Pass
			5	18.56	-4.96	11.45	<=34.77	Pass
		3	0	18.50	-4.96	11.39	<=34.77	Pass
			2	18.50	-4.96	11.39	<=34.77	Pass
			3	18.46	-4.96	11.35	<=34.77	Pass
		6	0	18.48	-4.96	11.37	<=34.77	Pass
	715.3	1	0	18.96	-4.96	11.85	<=34.77	Pass
			2	18.99	-4.96	11.88	<=34.77	Pass
			5	18.98	-4.96	11.87	<=34.77	Pass
		3	0	18.64	-4.96	11.53	<=34.77	Pass
			2	18.65	-4.96	11.54	<=34.77	Pass
			3	18.66	-4.96	11.55	<=34.77	Pass
		6	0	18.64	-4.96	11.53	<=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	23.36	-4.96	16.25	<=34.77	Pass
			7	23.38	-4.96	16.27	<=34.77	Pass
			14	23.32	-4.96	16.21	<=34.77	Pass
		8	0	22.36	-4.96	15.25	<=34.77	Pass
			4	22.35	-4.96	15.24	<=34.77	Pass
			7	22.35	-4.96	15.24	<=34.77	Pass
		15	0	22.38	-4.96	15.27	<=34.77	Pass
	707.5	1	0	23.38	-4.96	16.27	<=34.77	Pass
			7	23.41	-4.96	16.30	<=34.77	Pass
			14	23.40	-4.96	16.29	<=34.77	Pass
		8	0	22.40	-4.96	15.29	<=34.77	Pass
			4	22.37	-4.96	15.26	<=34.77	Pass
			7	22.38	-4.96	15.27	<=34.77	Pass
		15	0	22.38	-4.96	15.27	<=34.77	Pass
	714.5	1	0	23.60	-4.96	16.49	<=34.77	Pass

		8	7	23.64	-4.96	16.53	<=34.77	Pass
			14	23.61	-4.96	16.50	<=34.77	Pass
			0	22.66	-4.96	15.55	<=34.77	Pass
			4	22.62	-4.96	15.51	<=34.77	Pass
			7	22.65	-4.96	15.54	<=34.77	Pass
		15	0	22.66	-4.96	15.55	<=34.77	Pass
16QAM	700.5	1	0	22.92	-4.96	15.81	<=34.77	Pass
			7	22.97	-4.96	15.86	<=34.77	Pass
			14	22.84	-4.96	15.73	<=34.77	Pass
		8	0	21.60	-4.96	14.49	<=34.77	Pass
			4	21.60	-4.96	14.49	<=34.77	Pass
			7	21.57	-4.96	14.46	<=34.77	Pass
		15	0	21.51	-4.96	14.40	<=34.77	Pass
	707.5	1	0	22.58	-4.96	15.47	<=34.77	Pass
			7	22.64	-4.96	15.53	<=34.77	Pass
			14	22.59	-4.96	15.48	<=34.77	Pass
		8	0	21.47	-4.96	14.36	<=34.77	Pass
			4	21.47	-4.96	14.36	<=34.77	Pass
			7	21.46	-4.96	14.35	<=34.77	Pass
		15	0	21.42	-4.96	14.31	<=34.77	Pass
	714.5	1	0	22.62	-4.96	15.51	<=34.77	Pass
			7	22.69	-4.96	15.58	<=34.77	Pass
			14	22.73	-4.96	15.62	<=34.77	Pass
		8	0	21.80	-4.96	14.69	<=34.77	Pass
			4	21.79	-4.96	14.68	<=34.77	Pass
			7	21.82	-4.96	14.71	<=34.77	Pass
		15	0	21.76	-4.96	14.65	<=34.77	Pass
64QAM	700.5	1	0	21.69	-4.96	14.58	<=34.77	Pass
			7	21.66	-4.96	14.55	<=34.77	Pass
			14	21.67	-4.96	14.56	<=34.77	Pass
		8	0	20.53	-4.96	13.42	<=34.77	Pass
			4	20.53	-4.96	13.42	<=34.77	Pass
			7	20.51	-4.96	13.40	<=34.77	Pass
		15	0	20.40	-4.96	13.29	<=34.77	Pass
	707.5	1	0	21.61	-4.96	14.50	<=34.77	Pass
			7	21.65	-4.96	14.54	<=34.77	Pass
			14	21.67	-4.96	14.56	<=34.77	Pass
		8	0	20.53	-4.96	13.42	<=34.77	Pass
			4	20.52	-4.96	13.41	<=34.77	Pass
			7	20.50	-4.96	13.39	<=34.77	Pass
		15	0	20.46	-4.96	13.35	<=34.77	Pass
	714.5	1	0	21.90	-4.96	14.79	<=34.77	Pass
			7	21.91	-4.96	14.80	<=34.77	Pass
			14	21.85	-4.96	14.74	<=34.77	Pass
		8	0	20.64	-4.96	13.53	<=34.77	Pass
			4	20.60	-4.96	13.49	<=34.77	Pass
			7	20.65	-4.96	13.54	<=34.77	Pass
		15	0	20.75	-4.96	13.64	<=34.77	Pass
256QAM	700.5	1	0	18.81	-4.96	11.70	<=34.77	Pass
			7	18.82	-4.96	11.71	<=34.77	Pass
			14	18.83	-4.96	11.72	<=34.77	Pass
		8	0	18.50	-4.96	11.39	<=34.77	Pass
			4	18.52	-4.96	11.41	<=34.77	Pass
			7	18.52	-4.96	11.41	<=34.77	Pass
		15	0	18.45	-4.96	11.34	<=34.77	Pass
	707.5	1	0	18.28	-4.96	11.17	<=34.77	Pass
			7	18.29	-4.96	11.18	<=34.77	Pass
			14	18.28	-4.96	11.17	<=34.77	Pass
		8	0	18.38	-4.96	11.27	<=34.77	Pass
			0	18.38	-4.96	11.27	<=34.77	Pass

			4	18.40	-4.96	11.29	<=34.77	Pass
			7	18.40	-4.96	11.29	<=34.77	Pass
		15	0	18.56	-4.96	11.45	<=34.77	Pass
	714.5	1	0	18.72	-4.96	11.61	<=34.77	Pass
			7	18.75	-4.96	11.64	<=34.77	Pass
			14	18.77	-4.96	11.66	<=34.77	Pass
		8	0	18.80	-4.96	11.69	<=34.77	Pass
			4	18.79	-4.96	11.68	<=34.77	Pass
			7	18.81	-4.96	11.70	<=34.77	Pass
		15	0	18.72	-4.96	11.61	<=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	23.59	-4.96	16.48	<=34.77	Pass
			13	23.52	-4.96	16.41	<=34.77	Pass
			24	23.58	-4.96	16.47	<=34.77	Pass
		12	0	22.50	-4.96	15.39	<=34.77	Pass
			6	22.45	-4.96	15.34	<=34.77	Pass
			13	22.45	-4.96	15.34	<=34.77	Pass
		25	0	22.49	-4.96	15.38	<=34.77	Pass
	707.5	1	0	23.53	-4.96	16.42	<=34.77	Pass
			13	23.51	-4.96	16.40	<=34.77	Pass
			24	23.59	-4.96	16.48	<=34.77	Pass
		12	0	22.51	-4.96	15.40	<=34.77	Pass
			6	22.48	-4.96	15.37	<=34.77	Pass
			13	22.51	-4.96	15.40	<=34.77	Pass
		25	0	22.53	-4.96	15.42	<=34.77	Pass
	713.5	1	0	23.70	-4.96	16.59	<=34.77	Pass
			13	23.74	-4.96	16.63	<=34.77	Pass
			24	23.82	-4.96	16.71	<=34.77	Pass
		12	0	22.68	-4.96	15.57	<=34.77	Pass
			6	22.68	-4.96	15.57	<=34.77	Pass
			13	22.73	-4.96	15.62	<=34.77	Pass
		25	0	22.73	-4.96	15.62	<=34.77	Pass
16QAM	701.5	1	0	22.37	-4.96	15.26	<=34.77	Pass
			13	22.30	-4.96	15.19	<=34.77	Pass
			24	22.35	-4.96	15.24	<=34.77	Pass
		12	0	21.56	-4.96	14.45	<=34.77	Pass
			6	21.56	-4.96	14.45	<=34.77	Pass
			13	21.56	-4.96	14.45	<=34.77	Pass
		25	0	21.57	-4.96	14.46	<=34.77	Pass
	707.5	1	0	22.78	-4.96	15.67	<=34.77	Pass
			13	22.77	-4.96	15.66	<=34.77	Pass
			24	22.83	-4.96	15.72	<=34.77	Pass
		12	0	21.60	-4.96	14.49	<=34.77	Pass
			6	21.61	-4.96	14.50	<=34.77	Pass
			13	21.61	-4.96	14.50	<=34.77	Pass
		25	0	21.58	-4.96	14.47	<=34.77	Pass
	713.5	1	0	22.74	-4.96	15.63	<=34.77	Pass
			13	22.79	-4.96	15.68	<=34.77	Pass
			24	22.85	-4.96	15.74	<=34.77	Pass
		12	0	21.76	-4.96	14.65	<=34.77	Pass
			6	21.76	-4.96	14.65	<=34.77	Pass

			13	21.79	-4.96	14.68	<=34.77	Pass	
		25	0	21.79	-4.96	14.68	<=34.77	Pass	
64QAM	701.5	1	0	21.47	-4.96	14.36	<=34.77	Pass	
			13	21.43	-4.96	14.32	<=34.77	Pass	
			24	21.49	-4.96	14.38	<=34.77	Pass	
			0	20.54	-4.96	13.43	<=34.77	Pass	
		12	6	20.54	-4.96	13.43	<=34.77	Pass	
			13	20.54	-4.96	13.43	<=34.77	Pass	
			25	0	20.50	-4.96	13.39	<=34.77	Pass
		707.5	1	0	21.91	-4.96	14.80	<=34.77	Pass
				13	21.96	-4.96	14.85	<=34.77	Pass
				24	22.00	-4.96	14.89	<=34.77	Pass
	0			20.52	-4.96	13.41	<=34.77	Pass	
	12		6	20.51	-4.96	13.40	<=34.77	Pass	
			13	20.51	-4.96	13.40	<=34.77	Pass	
			25	0	20.52	-4.96	13.41	<=34.77	Pass
	713.5		1	0	21.94	-4.96	14.83	<=34.77	Pass
		13		21.99	-4.96	14.88	<=34.77	Pass	
		24		22.00	-4.96	14.89	<=34.77	Pass	
		0		20.82	-4.96	13.71	<=34.77	Pass	
		12	6	20.85	-4.96	13.74	<=34.77	Pass	
			13	20.85	-4.96	13.74	<=34.77	Pass	
			25	0	20.80	-4.96	13.69	<=34.77	Pass
		256QAM	701.5	1	0	18.27	-4.96	11.16	<=34.77
	13				18.26	-4.96	11.15	<=34.77	Pass
24	18.31				-4.96	11.20	<=34.77	Pass	
12	0			18.55	-4.96	11.44	<=34.77	Pass	
	6			18.53	-4.96	11.42	<=34.77	Pass	
	13			18.54	-4.96	11.43	<=34.77	Pass	
	25			0	18.59	-4.96	11.48	<=34.77	Pass
707.5	1		0	18.74	-4.96	11.63	<=34.77	Pass	
			13	18.76	-4.96	11.65	<=34.77	Pass	
			24	18.81	-4.96	11.70	<=34.77	Pass	
	12		0	18.59	-4.96	11.48	<=34.77	Pass	
			6	18.58	-4.96	11.47	<=34.77	Pass	
			13	18.58	-4.96	11.47	<=34.77	Pass	
			25	0	18.58	-4.96	11.47	<=34.77	Pass
713.5	1		0	18.80	-4.96	11.69	<=34.77	Pass	
			13	18.83	-4.96	11.72	<=34.77	Pass	
			24	18.87	-4.96	11.76	<=34.77	Pass	
	12		0	18.79	-4.96	11.68	<=34.77	Pass	
			6	18.78	-4.96	11.67	<=34.77	Pass	
			13	18.81	-4.96	11.70	<=34.77	Pass	
			25	0	18.79	-4.96	11.68	<=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	23.50	-4.96	16.39	<=34.77	Pass
			25	23.47	-4.96	16.36	<=34.77	Pass
			49	23.50	-4.96	16.39	<=34.77	Pass
		25	0	22.44	-4.96	15.33	<=34.77	Pass
			13	22.42	-4.96	15.31	<=34.77	Pass
			25	22.46	-4.96	15.35	<=34.77	Pass

	707.5	50	0	22.43	-4.96	15.32	<=34.77	Pass	
		1	0	23.46	-4.96	16.35	<=34.77	Pass	
			25	23.48	-4.96	16.37	<=34.77	Pass	
			49	23.64	-4.96	16.53	<=34.77	Pass	
			25	0	22.49	-4.96	15.38	<=34.77	Pass
				13	22.48	-4.96	15.37	<=34.77	Pass
				25	22.56	-4.96	15.45	<=34.77	Pass
		50	0	22.54	-4.96	15.43	<=34.77	Pass	
		711	1	0	23.55	-4.96	16.44	<=34.77	Pass
				25	23.63	-4.96	16.52	<=34.77	Pass
	49			23.76	-4.96	16.65	<=34.77	Pass	
	25		0	22.57	-4.96	15.46	<=34.77	Pass	
			13	22.63	-4.96	15.52	<=34.77	Pass	
			25	22.74	-4.96	15.63	<=34.77	Pass	
	50		0	22.66	-4.96	15.55	<=34.77	Pass	
	16QAM		704	1	0	23.06	-4.96	15.95	<=34.77
		25			23.03	-4.96	15.92	<=34.77	Pass
		49			23.04	-4.96	15.93	<=34.77	Pass
25		0		21.52	-4.96	14.41	<=34.77	Pass	
		13		21.53	-4.96	14.42	<=34.77	Pass	
		25		21.54	-4.96	14.43	<=34.77	Pass	
50		0		21.50	-4.96	14.39	<=34.77	Pass	
707.5		1		0	22.64	-4.96	15.53	<=34.77	Pass
			25	22.66	-4.96	15.55	<=34.77	Pass	
			49	22.82	-4.96	15.71	<=34.77	Pass	
		25	0	21.57	-4.96	14.46	<=34.77	Pass	
			13	21.58	-4.96	14.47	<=34.77	Pass	
			25	21.65	-4.96	14.54	<=34.77	Pass	
		50	0	21.57	-4.96	14.46	<=34.77	Pass	
		711	1	0	22.54	-4.96	15.43	<=34.77	Pass
25				22.59	-4.96	15.48	<=34.77	Pass	
49				22.77	-4.96	15.66	<=34.77	Pass	
25			0	21.69	-4.96	14.58	<=34.77	Pass	
			13	21.73	-4.96	14.62	<=34.77	Pass	
			25	21.83	-4.96	14.72	<=34.77	Pass	
50			0	21.70	-4.96	14.59	<=34.77	Pass	
64QAM			704	1	0	21.77	-4.96	14.66	<=34.77
		25			21.76	-4.96	14.65	<=34.77	Pass
		49			21.80	-4.96	14.69	<=34.77	Pass
		25		0	20.52	-4.96	13.41	<=34.77	Pass
				13	20.50	-4.96	13.39	<=34.77	Pass
				25	20.52	-4.96	13.41	<=34.77	Pass
		50		0	20.49	-4.96	13.38	<=34.77	Pass
	707.5	1		0	21.72	-4.96	14.61	<=34.77	Pass
			25	21.74	-4.96	14.63	<=34.77	Pass	
			49	21.90	-4.96	14.79	<=34.77	Pass	
		25	0	20.59	-4.96	13.48	<=34.77	Pass	
			13	20.61	-4.96	13.50	<=34.77	Pass	
			25	20.68	-4.96	13.57	<=34.77	Pass	
		50	0	20.59	-4.96	13.48	<=34.77	Pass	
		711	1	0	21.81	-4.96	14.70	<=34.77	Pass
	25			21.90	-4.96	14.79	<=34.77	Pass	
	49			21.94	-4.96	14.83	<=34.77	Pass	
	25		0	20.68	-4.96	13.57	<=34.77	Pass	
			13	20.72	-4.96	13.61	<=34.77	Pass	
			25	20.80	-4.96	13.69	<=34.77	Pass	
	50		0	20.65	-4.96	13.54	<=34.77	Pass	
	256QAM		704	1	0	18.93	-4.96	11.82	<=34.77
		25			18.93	-4.96	11.82	<=34.77	Pass

			49	18.99	-4.96	11.88	<=34.77	Pass
		25	0	18.53	-4.96	11.42	<=34.77	Pass
			13	18.53	-4.96	11.42	<=34.77	Pass
			25	18.55	-4.96	11.44	<=34.77	Pass
		50	0	18.52	-4.96	11.41	<=34.77	Pass
	707.5	1	0	18.32	-4.96	11.21	<=34.77	Pass
			25	18.36	-4.96	11.25	<=34.77	Pass
			49	18.49	-4.96	11.38	<=34.77	Pass
		25	0	18.57	-4.96	11.46	<=34.77	Pass
			13	18.59	-4.96	11.48	<=34.77	Pass
			25	18.66	-4.96	11.55	<=34.77	Pass
		50	0	18.54	-4.96	11.43	<=34.77	Pass
		711	1	0	18.68	-4.96	11.57	<=34.77
	25			18.74	-4.96	11.63	<=34.77	Pass
	49			18.85	-4.96	11.74	<=34.77	Pass
	25		0	18.66	-4.96	11.55	<=34.77	Pass
			13	18.71	-4.96	11.60	<=34.77	Pass
			25	18.80	-4.96	11.69	<=34.77	Pass
	50		0	18.69	-4.96	11.58	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	707.5	50	0	20	LV	-0.049	-0.0001	-2.5 to 2.5	Pass
					NV	0.173	0.0002	-2.5 to 2.5	Pass
					HV	-1.781	-0.0025	-2.5 to 2.5	Pass
				-30	NV	-1.430	-0.0020	-2.5 to 2.5	Pass
				-20	NV	-1.120	-0.0016	-2.5 to 2.5	Pass
				-10	NV	-1.140	-0.0016	-2.5 to 2.5	Pass
				0	NV	0.193	0.0003	-2.5 to 2.5	Pass
				10	NV	-0.764	-0.0011	-2.5 to 2.5	Pass
				30	NV	-3.356	-0.0047	-2.5 to 2.5	Pass
				40	NV	-3.437	-0.0049	-2.5 to 2.5	Pass
				50	NV	-0.175	-0.0002	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

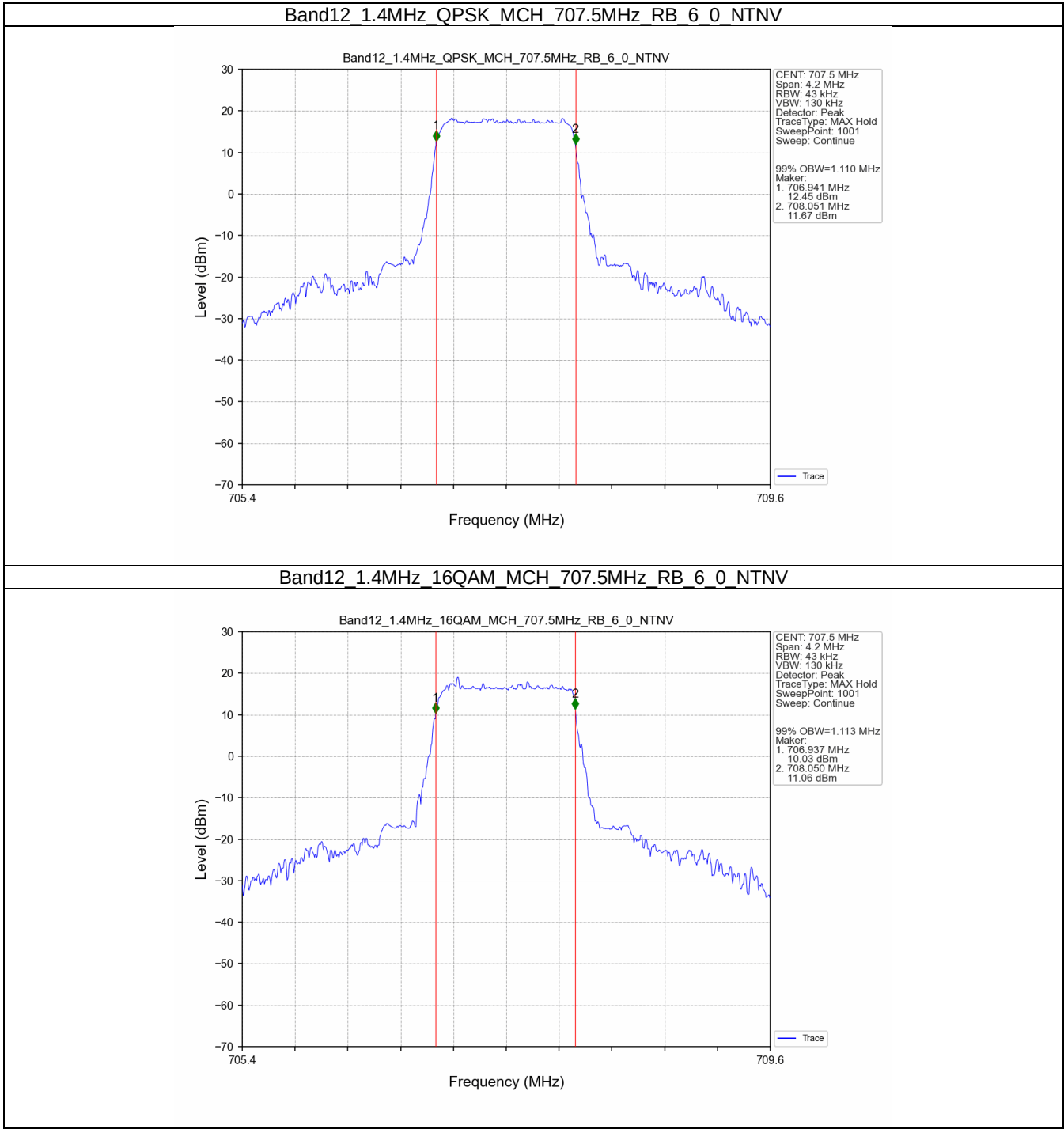
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.110	/	Pass
	16QAM	707.5	6	0	1.113	/	Pass
	64QAM	707.5	6	0	1.104	/	Pass
	256QAM	707.5	6	0	1.104	/	Pass
3	QPSK	707.5	15	0	2.738	/	Pass
	16QAM	707.5	15	0	2.753	/	Pass
	64QAM	707.5	15	0	2.725	/	Pass
	256QAM	707.5	15	0	2.742	/	Pass
5	QPSK	707.5	25	0	4.562	/	Pass
	16QAM	707.5	25	0	4.533	/	Pass
	64QAM	707.5	25	0	4.556	/	Pass
	256QAM	707.5	25	0	4.538	/	Pass
10	QPSK	707.5	50	0	9.055	/	Pass
	16QAM	707.5	50	0	9.022	/	Pass
	64QAM	707.5	50	0	9.068	/	Pass
	256QAM	707.5	50	0	9.061	/	Pass

3.1.2 Band12_XDB

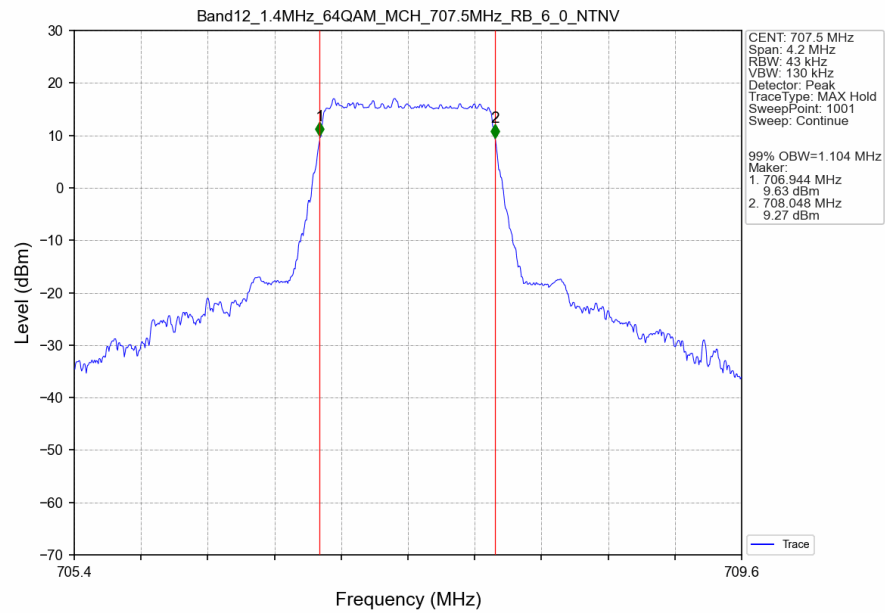
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.322	/	Pass
	16QAM	707.5	6	0	1.308	/	Pass
	64QAM	707.5	6	0	1.325	/	Pass
	256QAM	707.5	6	0	1.317	/	Pass
3	QPSK	707.5	15	0	3.037	/	Pass
	16QAM	707.5	15	0	3.025	/	Pass
	64QAM	707.5	15	0	3.016	/	Pass
	256QAM	707.5	15	0	3.031	/	Pass
5	QPSK	707.5	25	0	5.033	/	Pass
	16QAM	707.5	25	0	5.045	/	Pass
	64QAM	707.5	25	0	5.013	/	Pass
	256QAM	707.5	25	0	5.070	/	Pass
10	QPSK	707.5	50	0	10.014	/	Pass
	16QAM	707.5	50	0	9.985	/	Pass
	64QAM	707.5	50	0	9.891	/	Pass
	256QAM	707.5	50	0	9.962	/	Pass

3.2 Test Graph

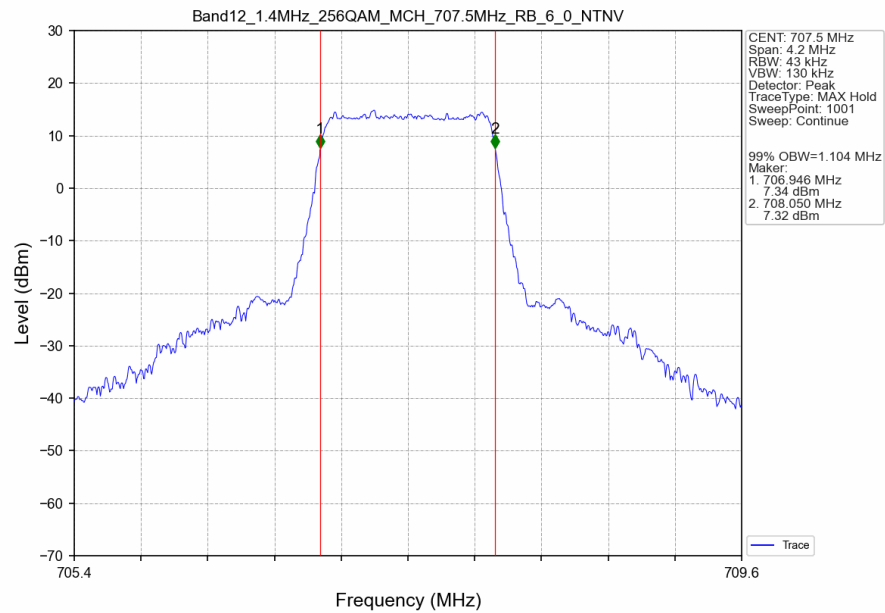
3.2.1 Band12_OBW



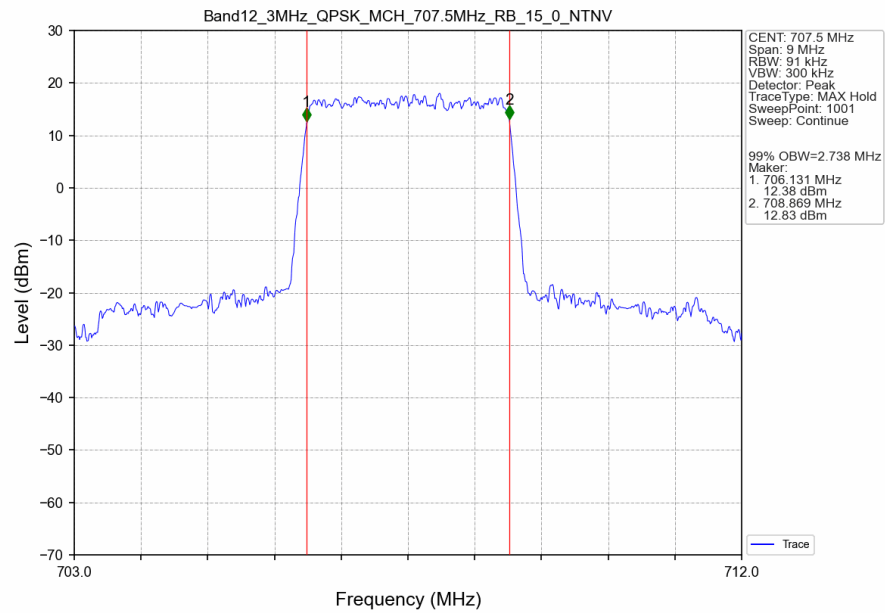
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTV



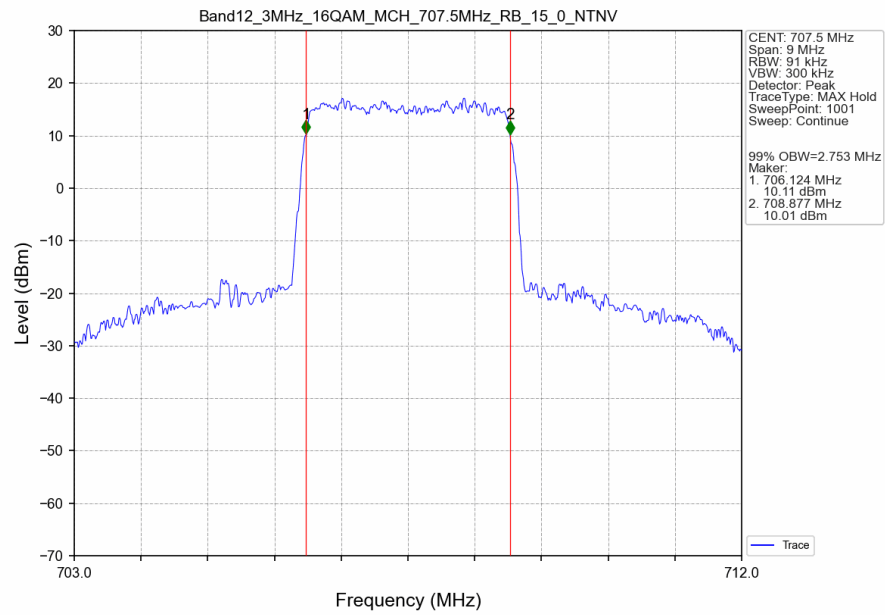
Band12 1.4MHz 256QAM MCH 707.5MHz RB 6 0 NTV



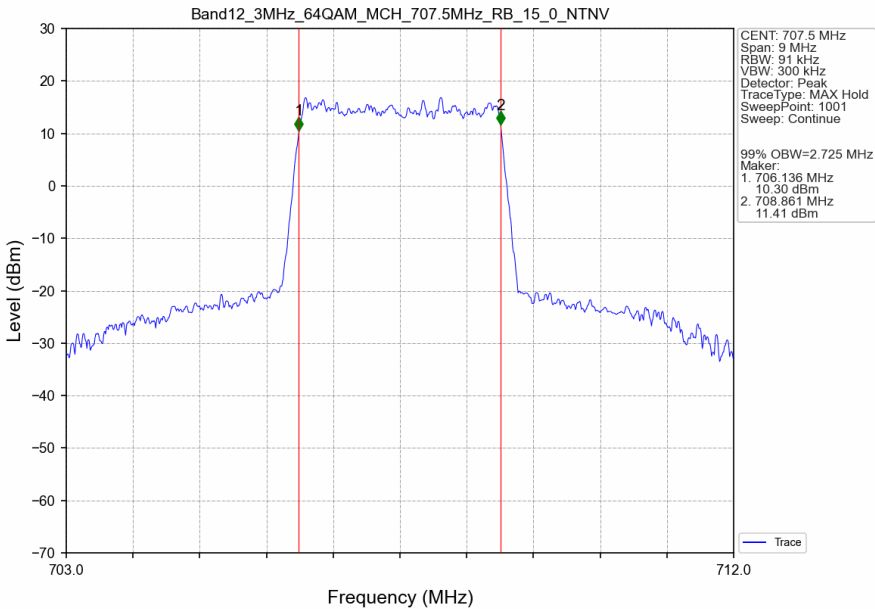
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTV



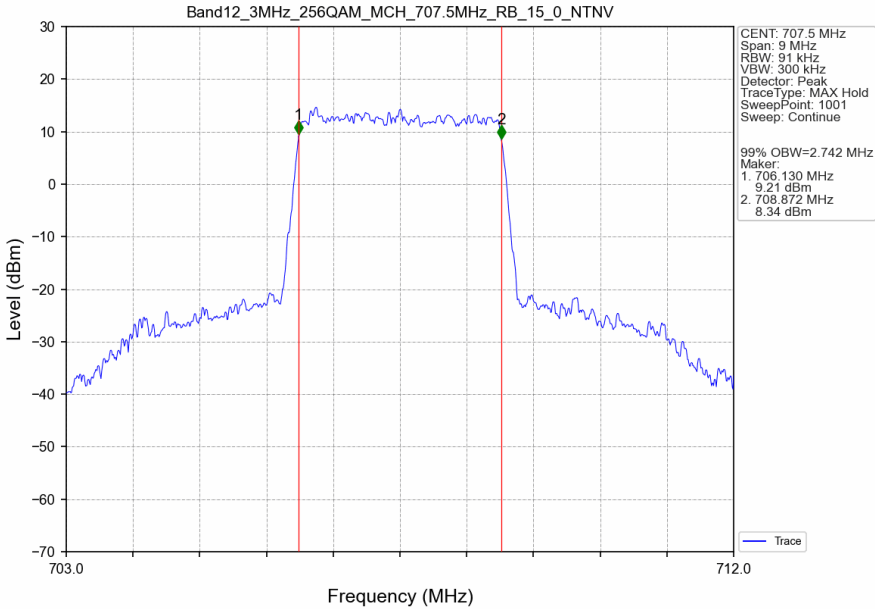
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTV



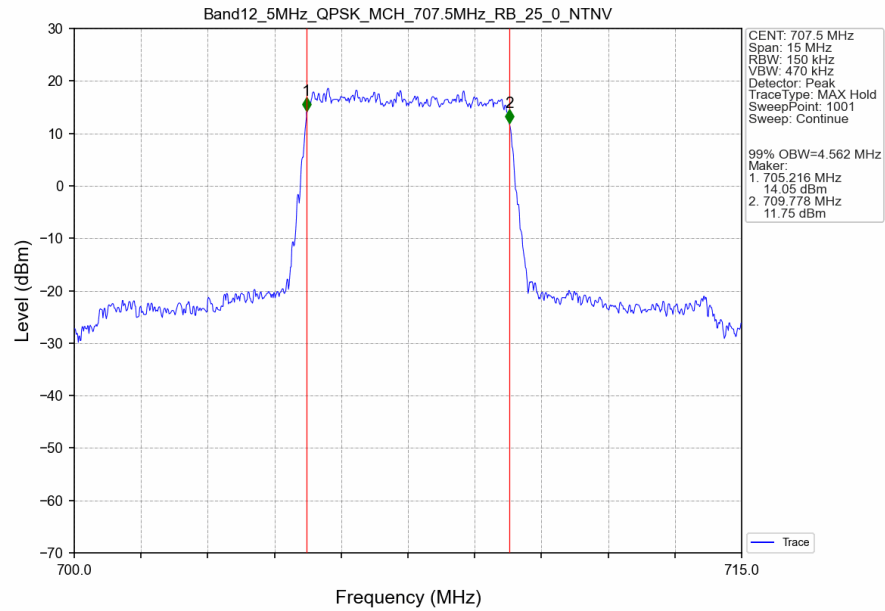
Band12 3MHz 64QAM MCH 707.5MHz RB 15 0 NTV



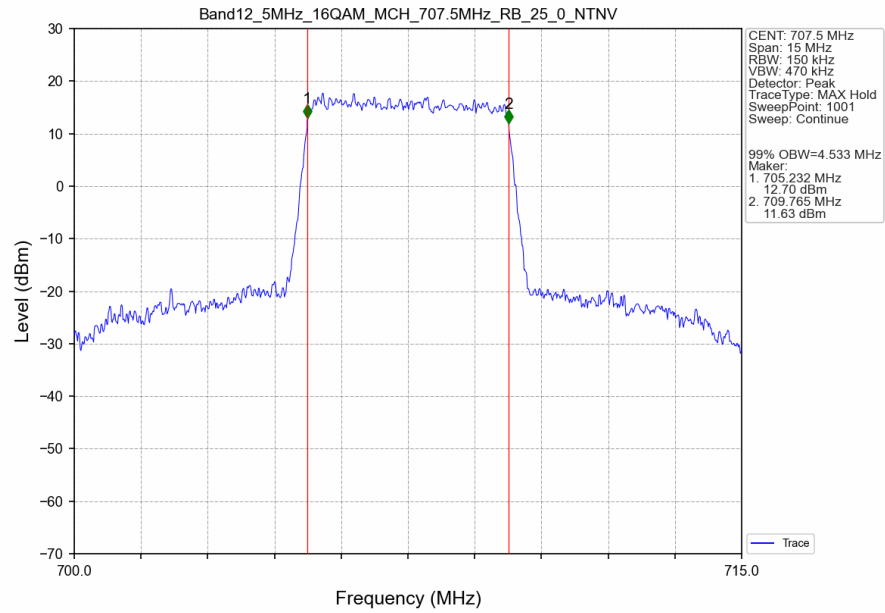
Band12 3MHz 256QAM MCH 707.5MHz RB 15 0 NTV



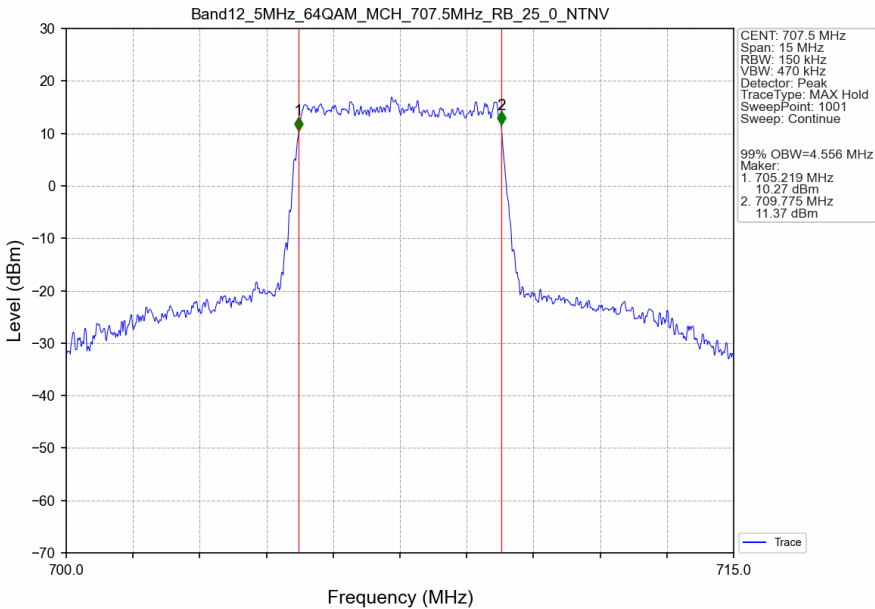
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTNV



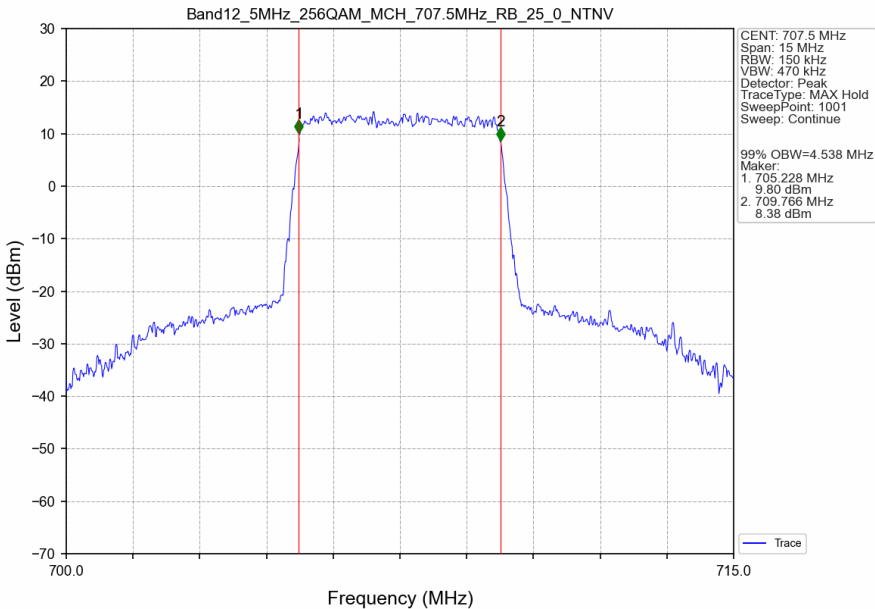
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



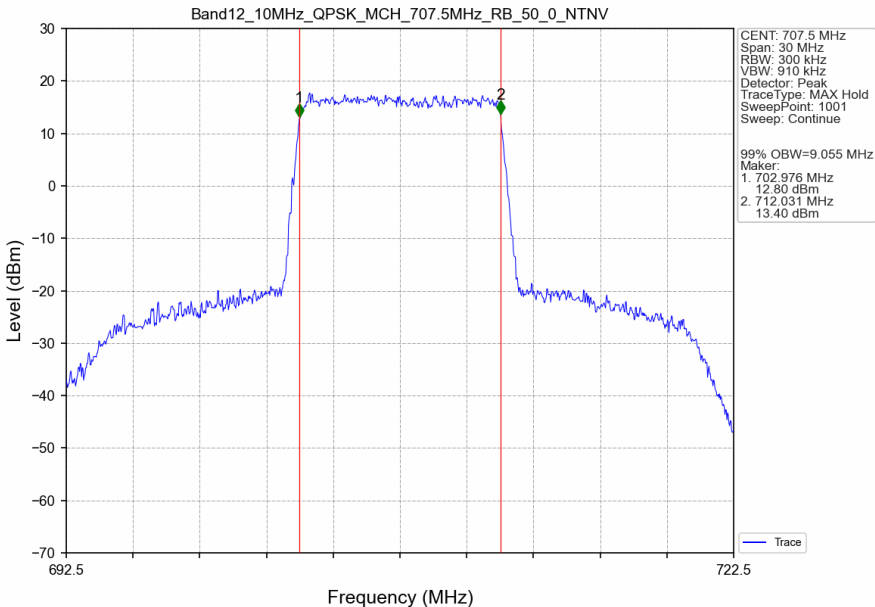
Band12 5MHz 64QAM MCH 707.5MHz RB 25 0 NTV



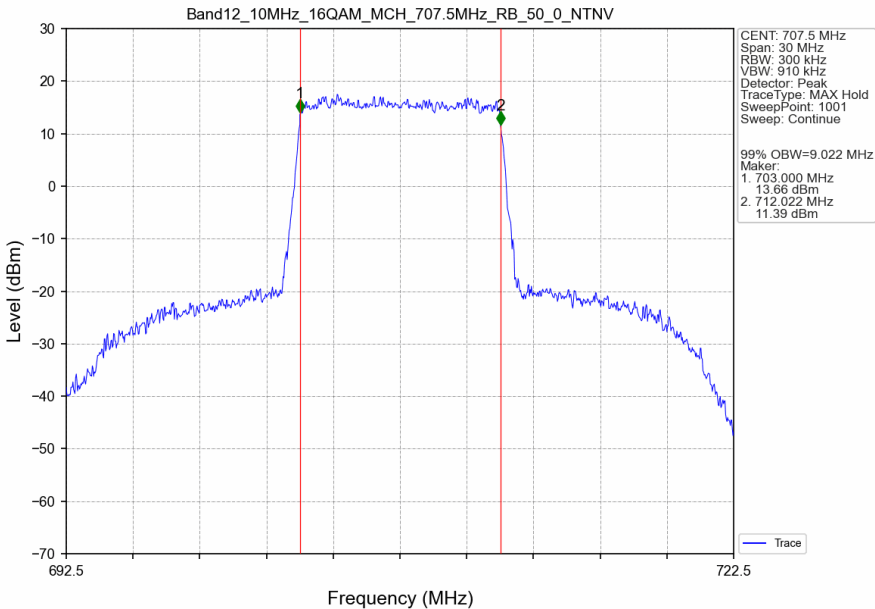
Band12 5MHz 256QAM MCH 707.5MHz RB 25 0 NTV



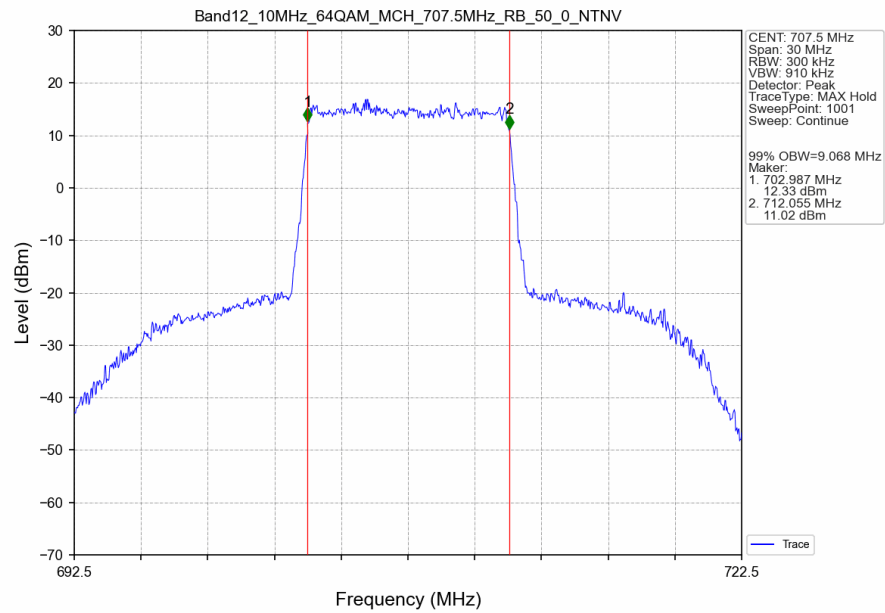
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



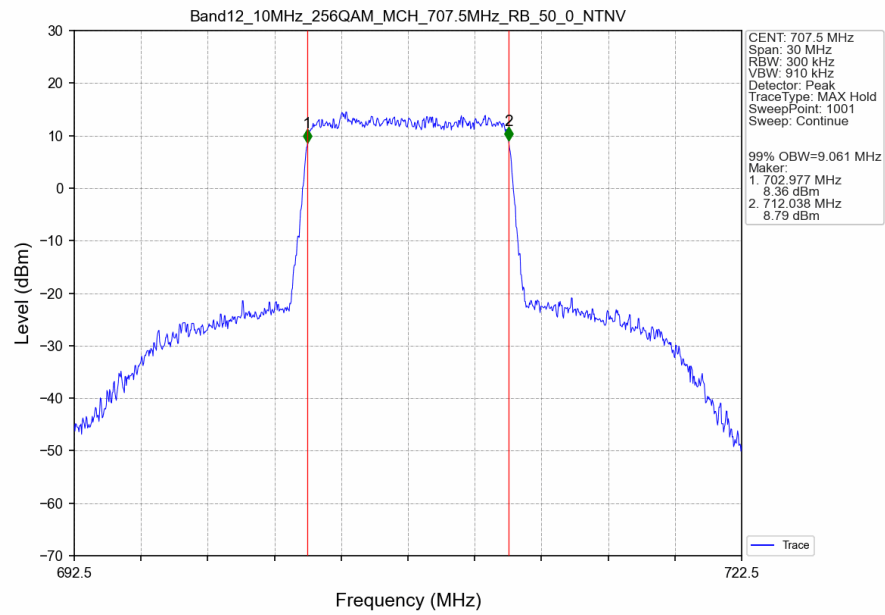
Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTN



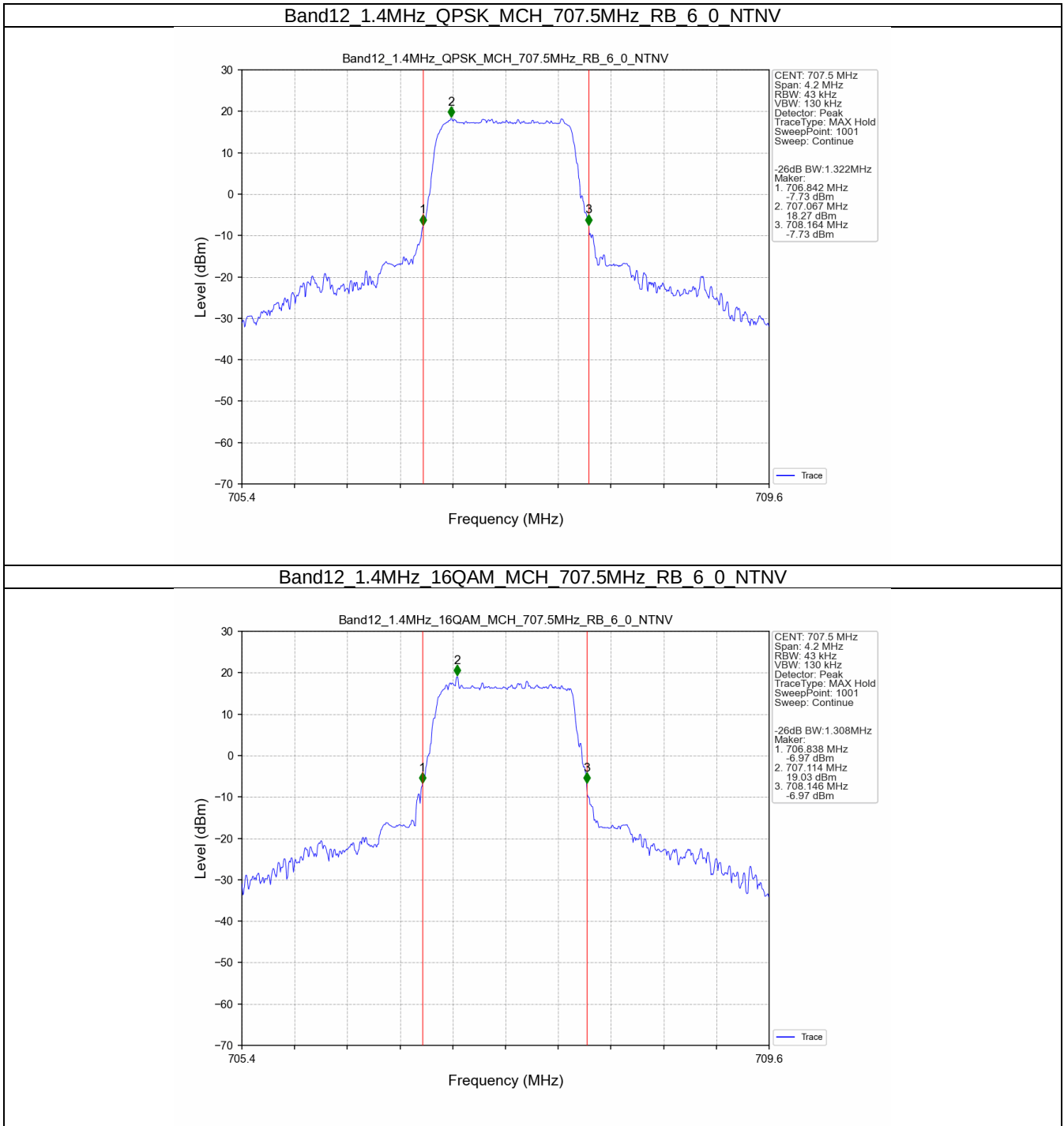
Band12 10MHz 64QAM MCH 707.5MHz RB 50 0 NTNV



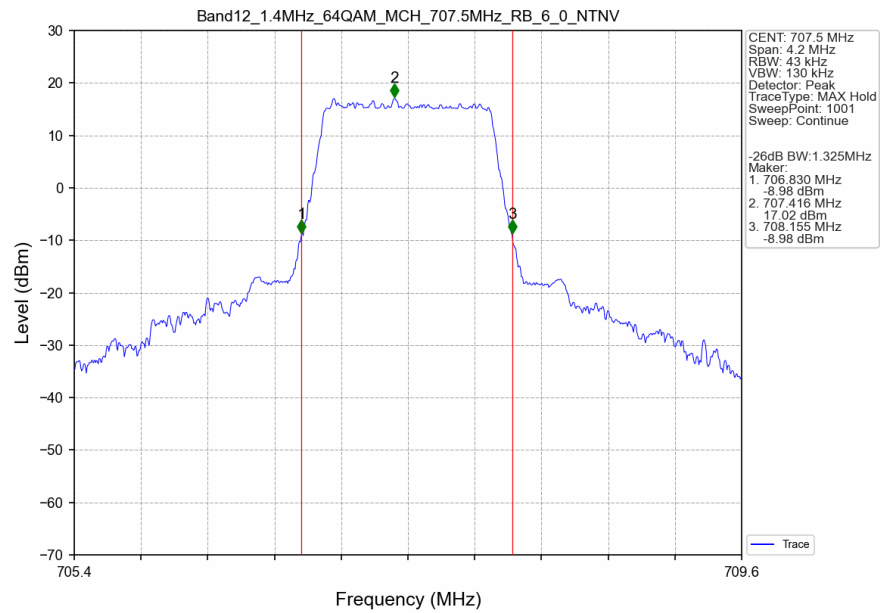
Band12 10MHz 256QAM MCH 707.5MHz RB 50 0 NTNV



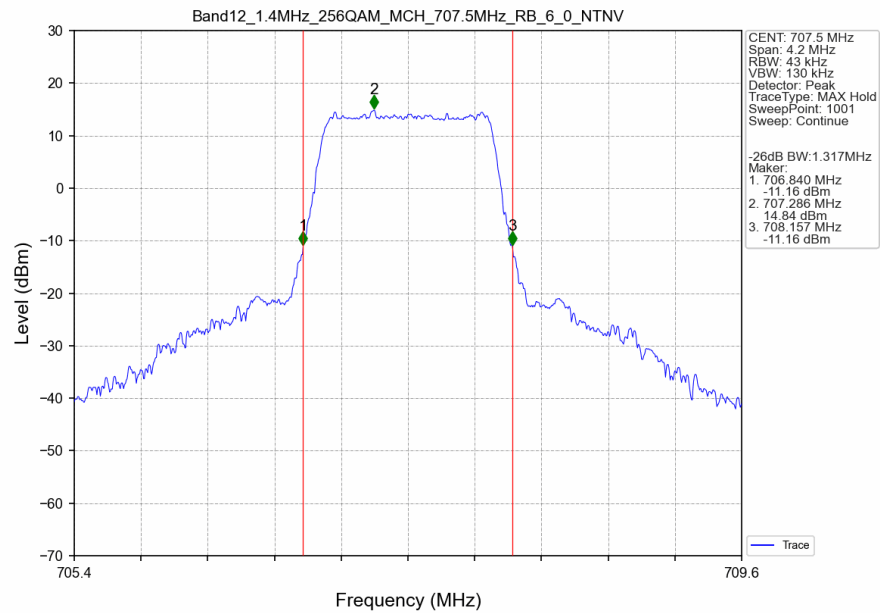
3.2.2 Band12_XDB



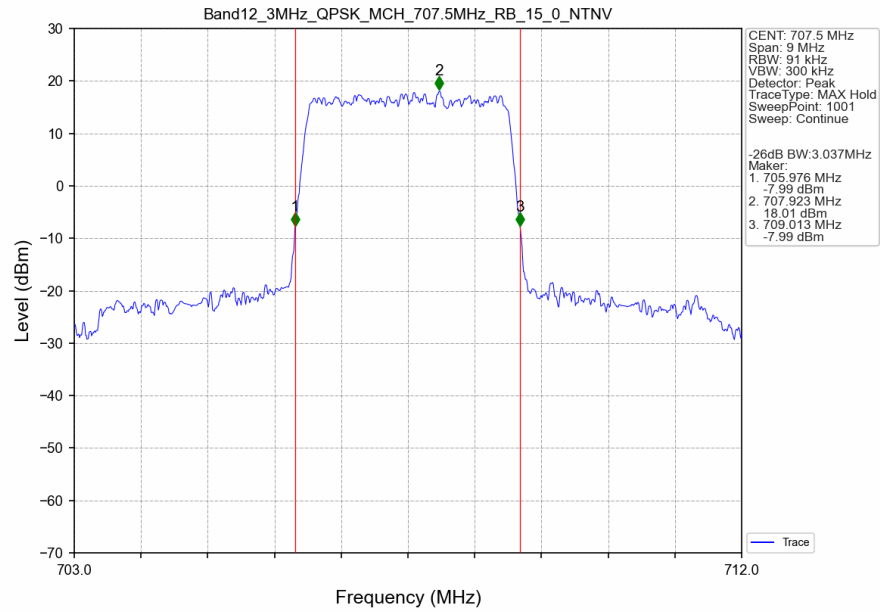
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTV



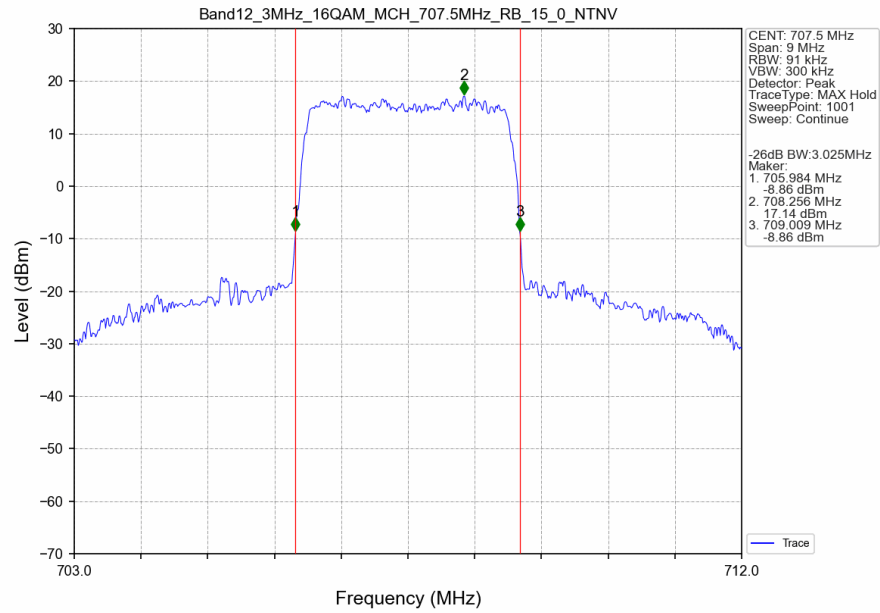
Band12 1.4MHz 256QAM MCH 707.5MHz RB 6 0 NTV



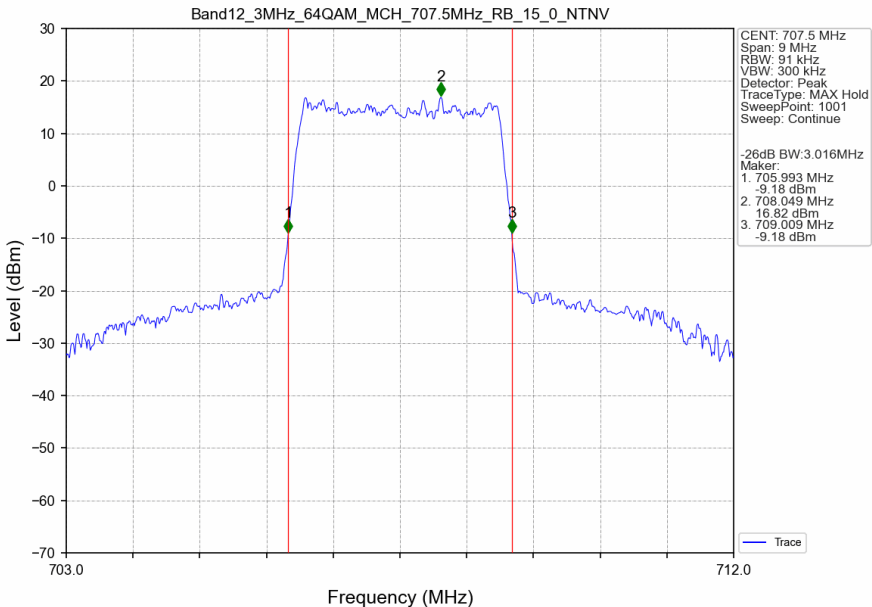
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



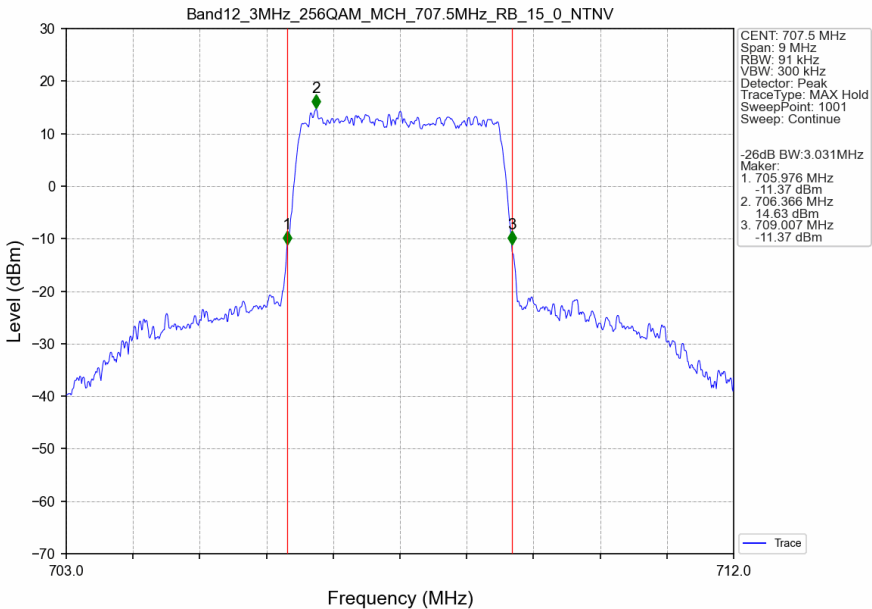
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



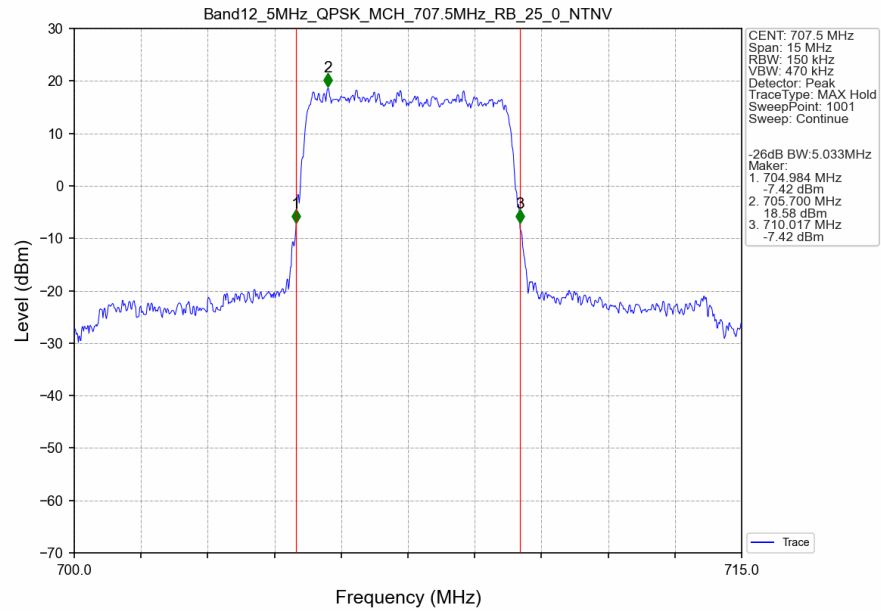
Band12 3MHz 64QAM MCH 707.5MHz RB 15 0 NTV



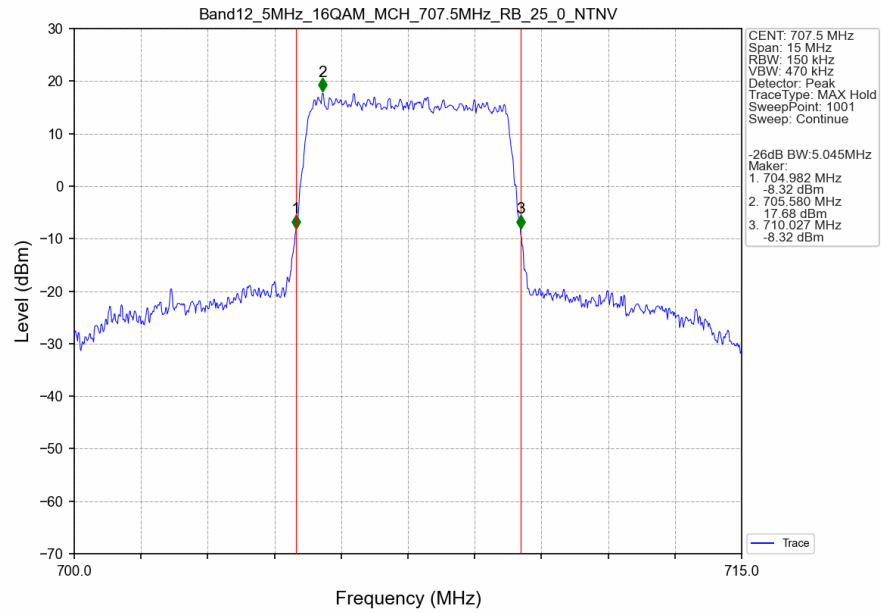
Band12 3MHz 256QAM MCH 707.5MHz RB 15 0 NTV



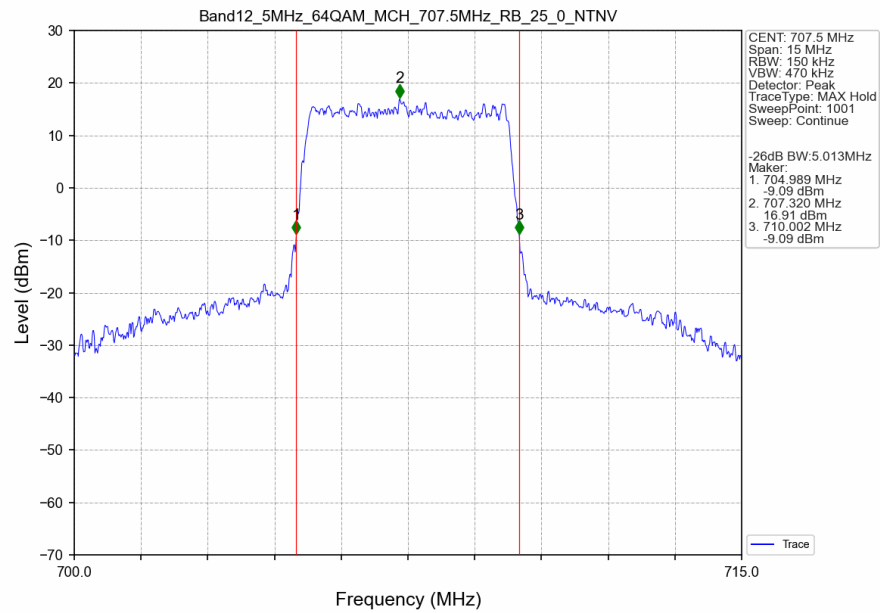
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTNV



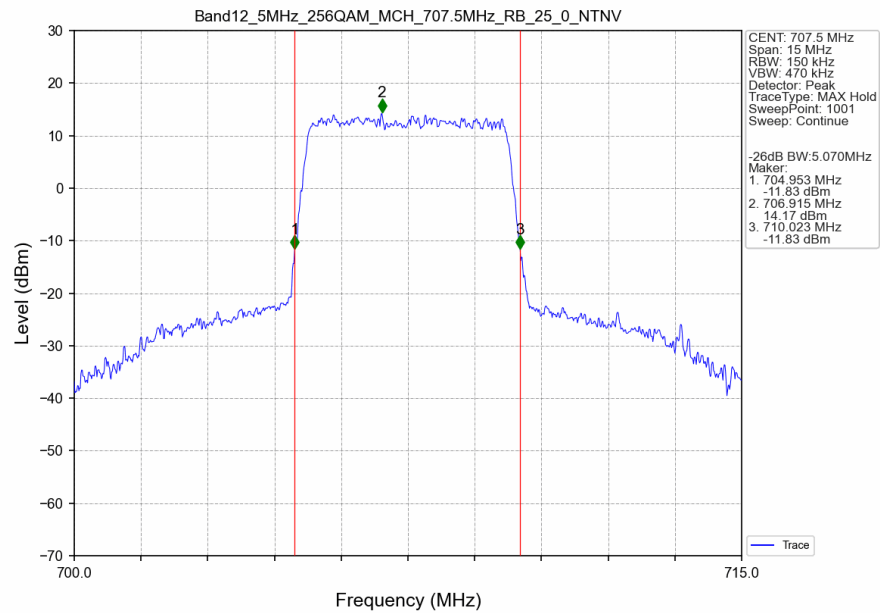
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



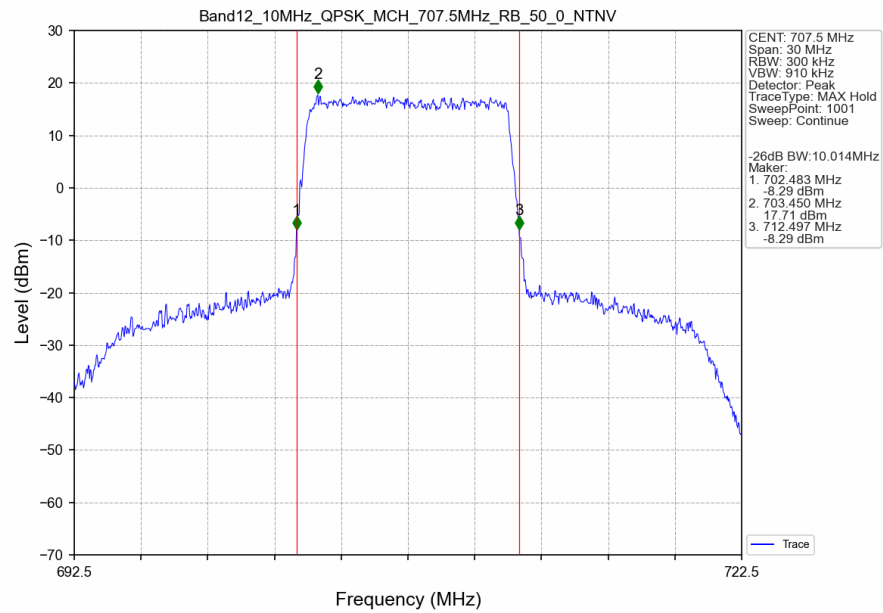
Band12 5MHz 64QAM MCH 707.5MHz RB 25 0 NTV



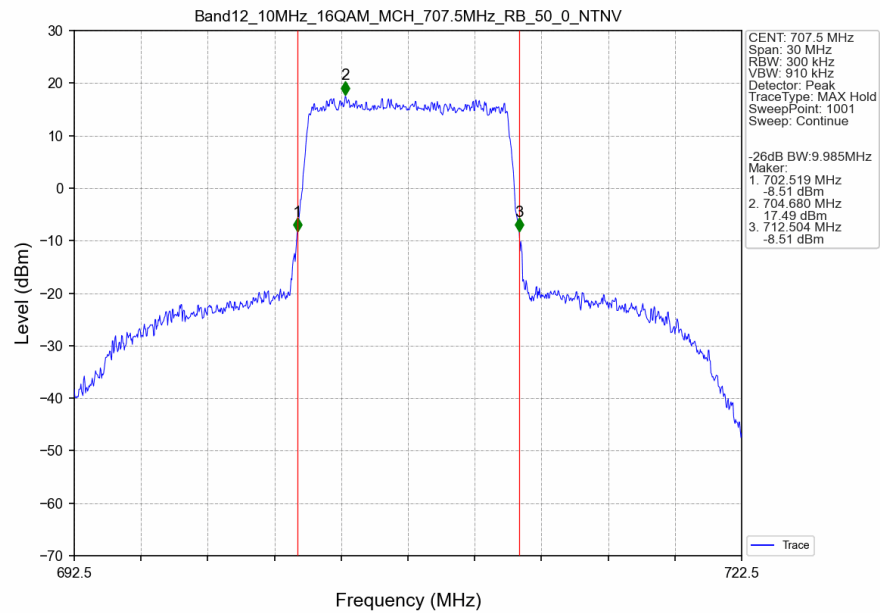
Band12 5MHz 256QAM MCH 707.5MHz RB 25 0 NTV



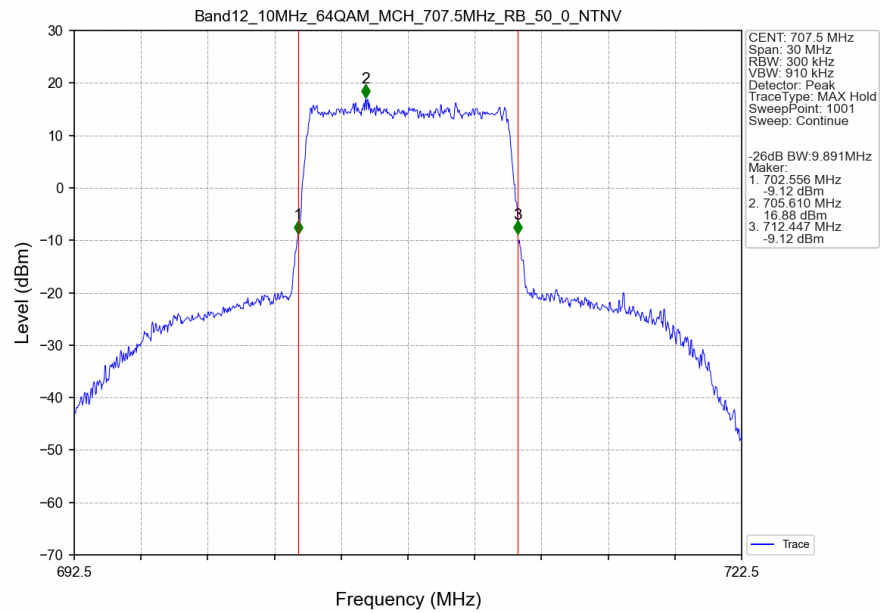
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



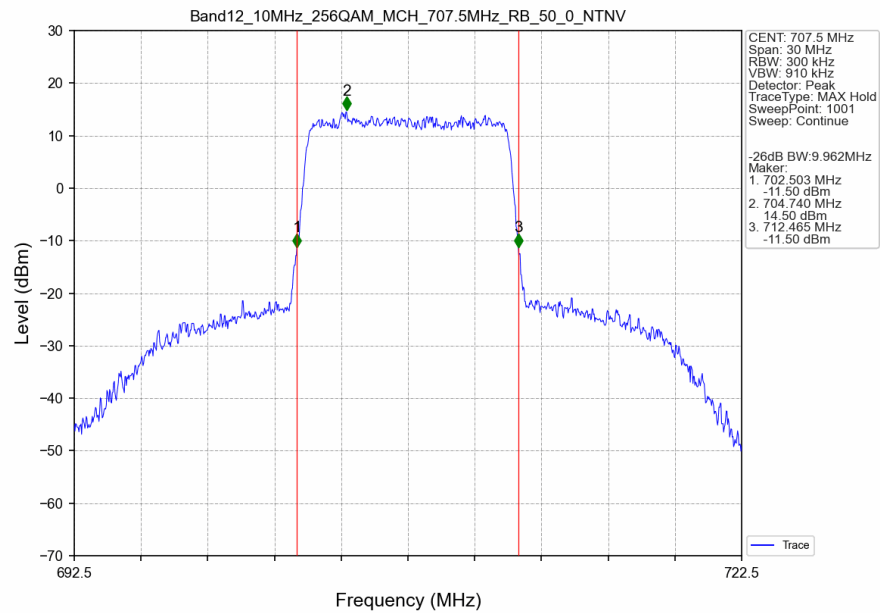
Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTN



Band12 10MHz 64QAM MCH 707.5MHz RB 50 0 NTN



Band12 10MHz 256QAM MCH 707.5MHz RB 50 0 NTN



4. Peak-Average Ratio

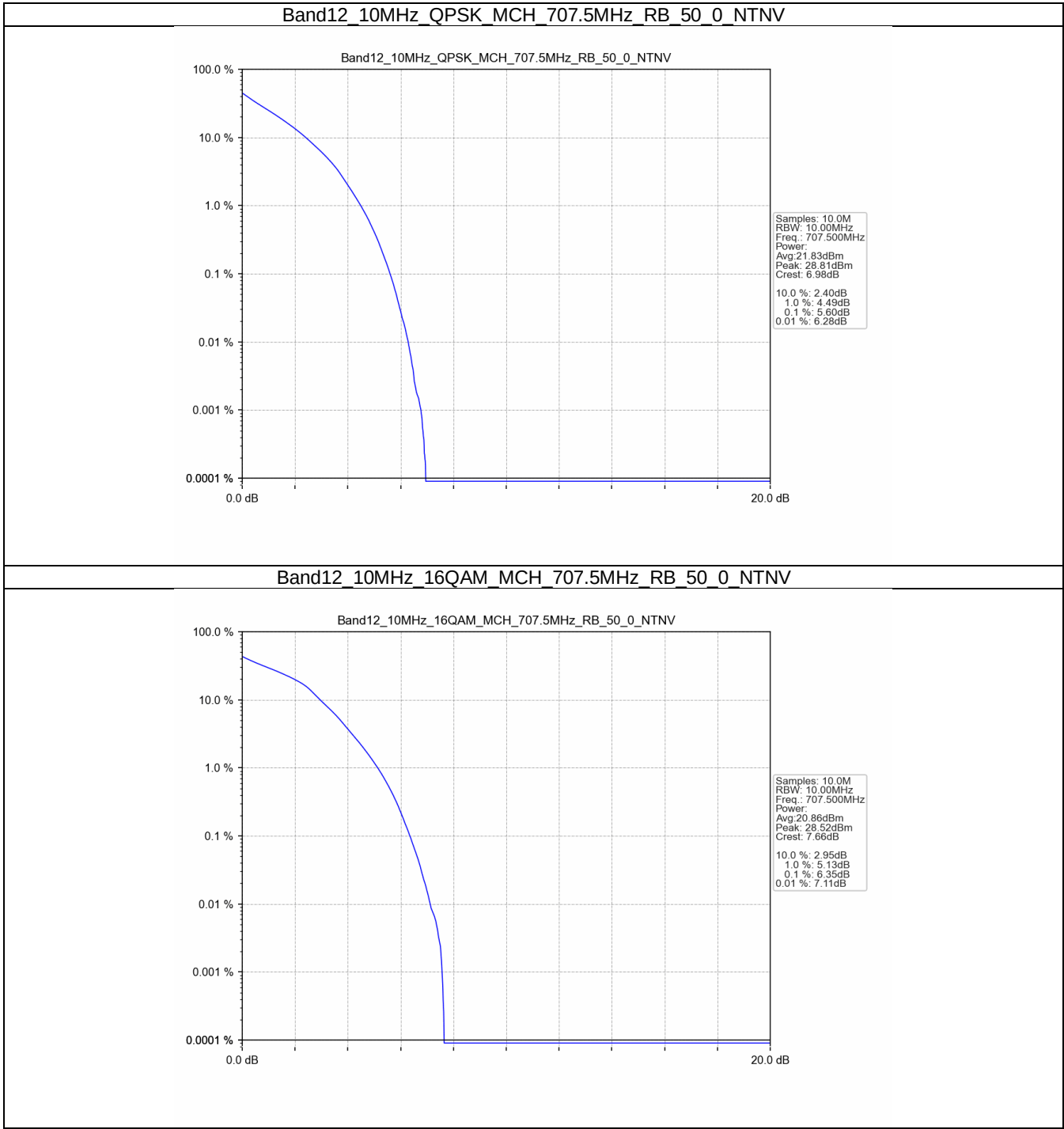
4.1 Test Result

4.1.1 B12_10MHz

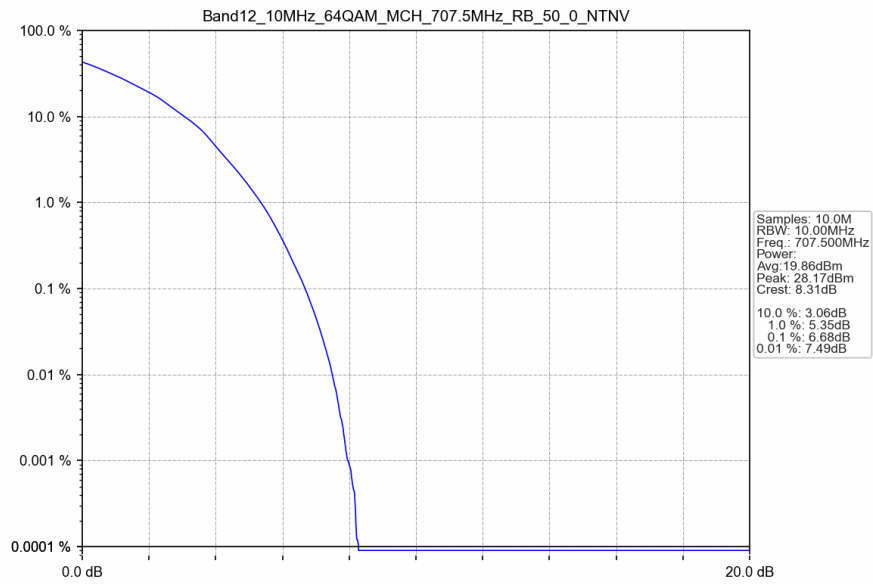
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	5.60	<=13	Pass
16QAM	707.5	50	0	6.35	<=13	Pass
64QAM	707.5	50	0	6.68	<=13	Pass
256QAM	707.5	50	0	6.92	<=13	Pass

4.2 Test Graph

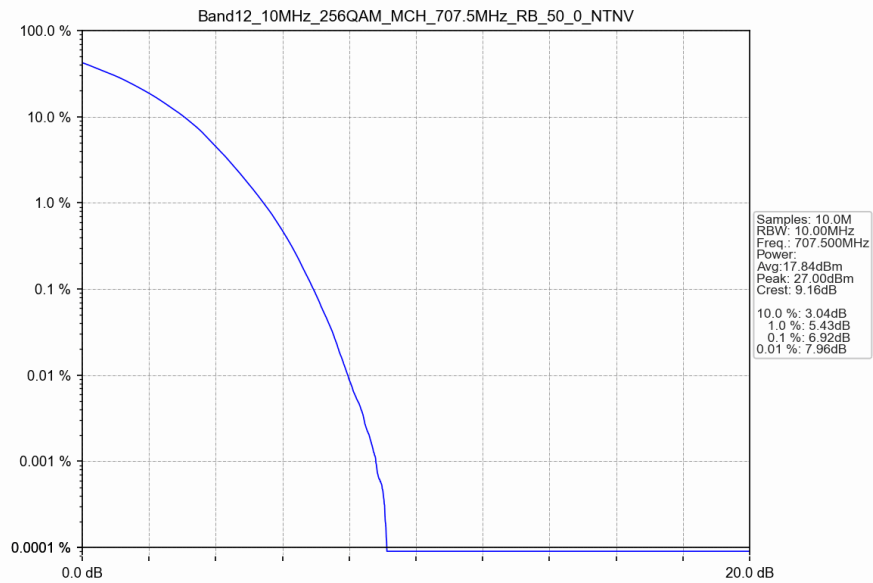
4.2.1 B12_10MHz



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / 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

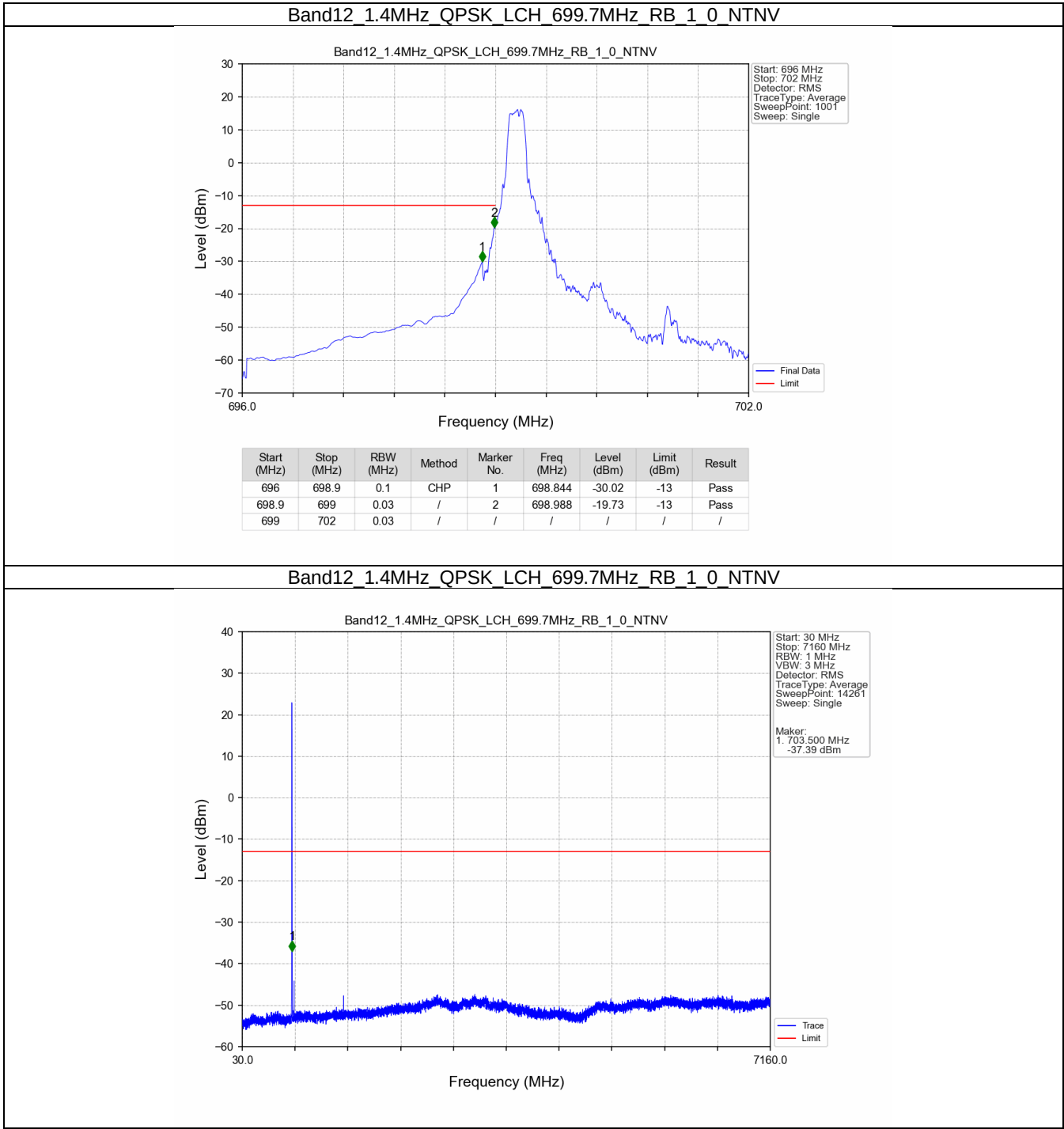
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.4 B12_10MHz

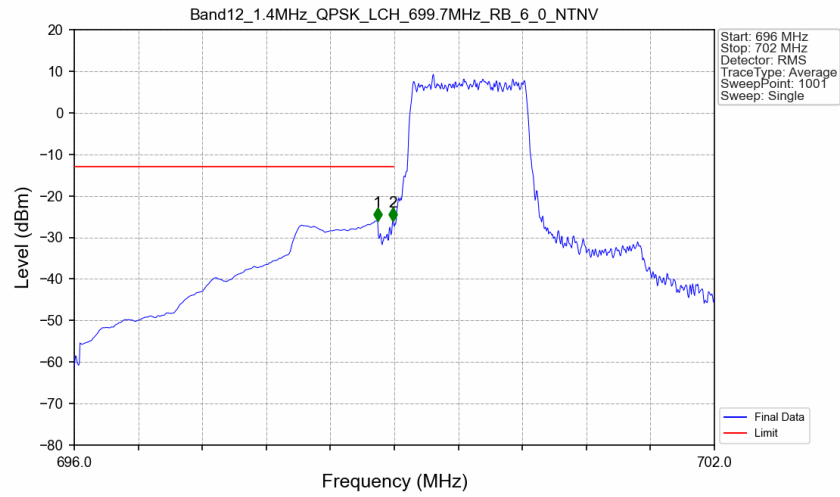
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test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

5.2 Test Graph

5.2.1 B12_1.4MHz

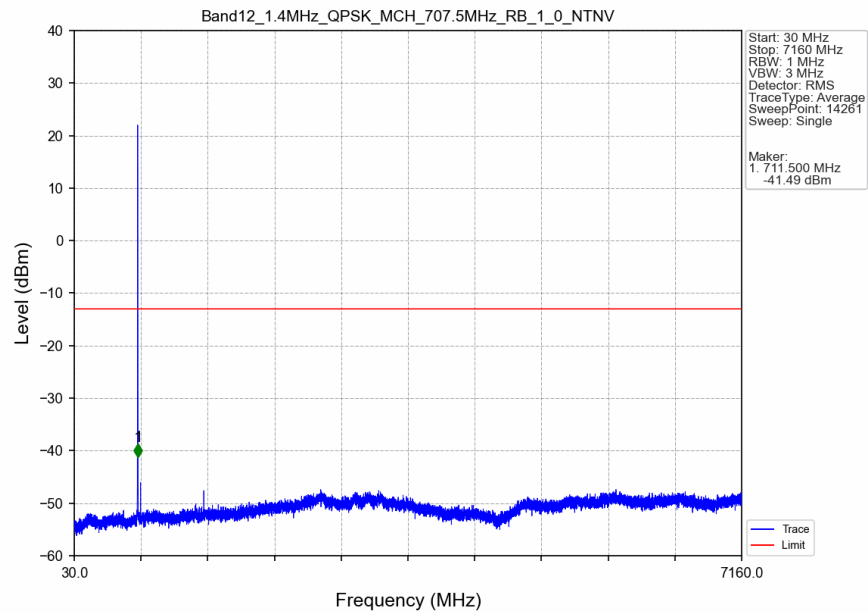


Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTNV

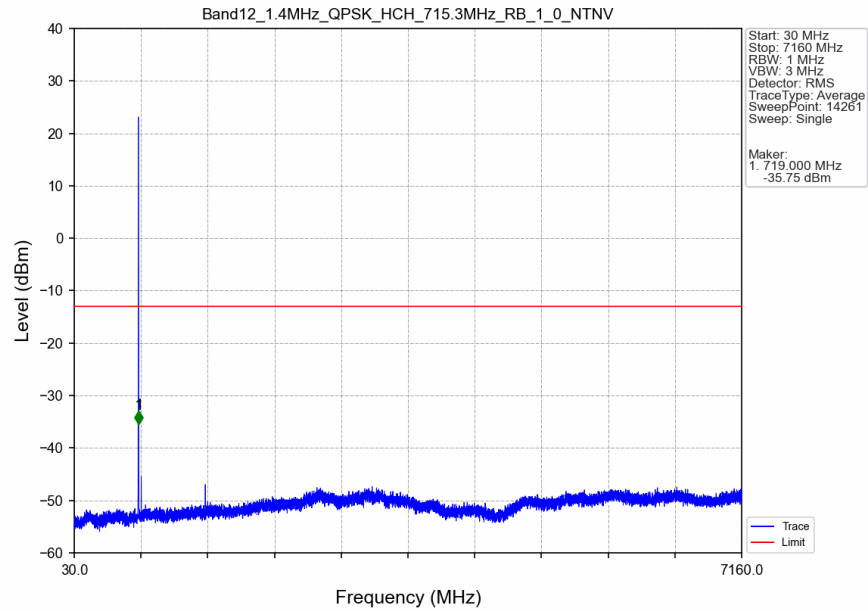


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-26.02	-13	Pass
698.9	699	0.03	/	2	698.988	-26.09	-13	Pass
699	702	0.03	/	/	/	/	/	/

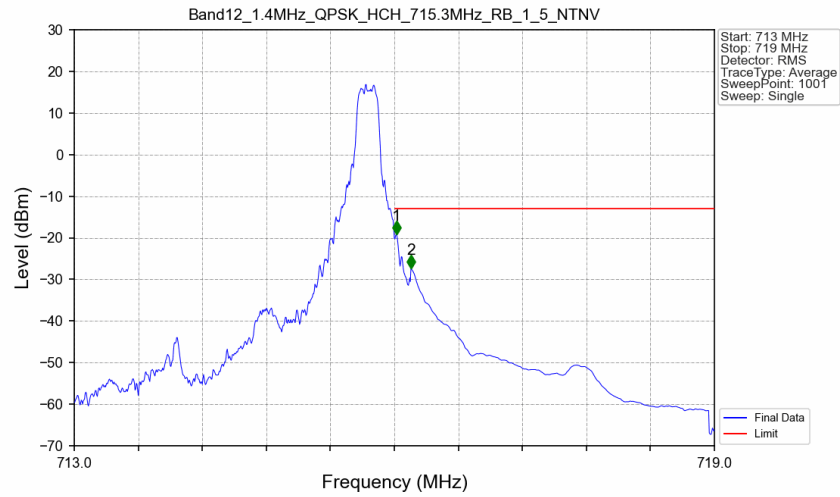
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTNV

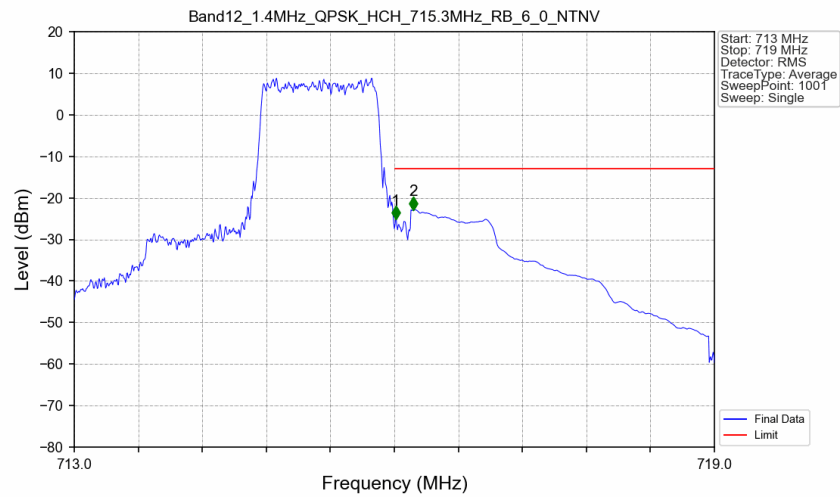


Band12 1.4MHz QPSK HCH 715.3MHz RB 1 5 NTNV



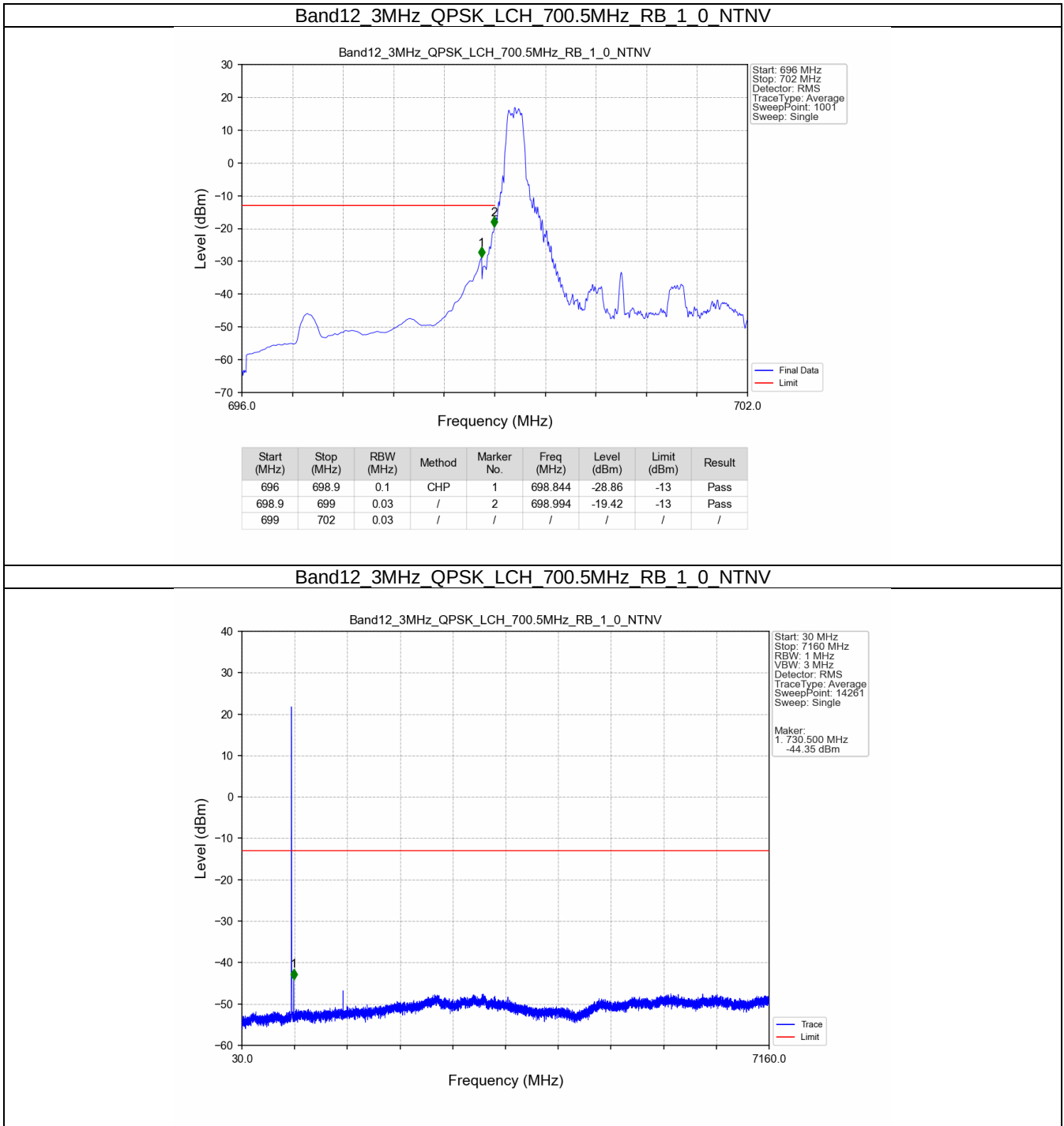
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.018	-19.17	-13	Pass
716.1	719	0.1	CHP	2	716.156	-27.24	-13	Pass

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV

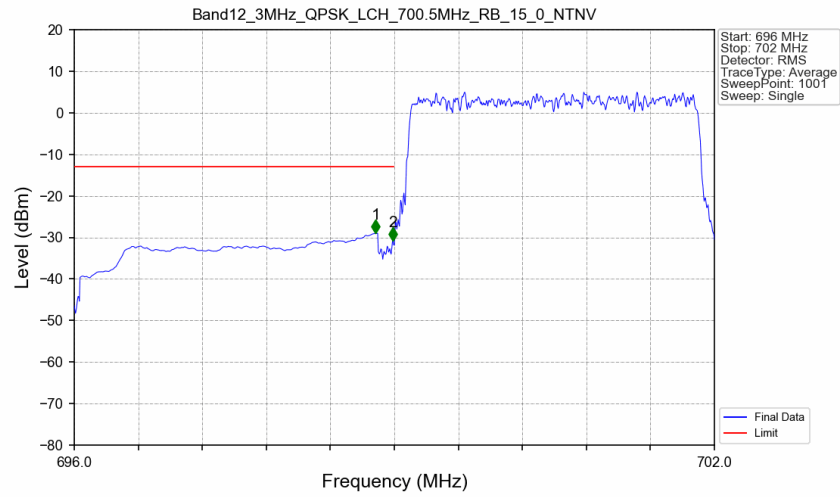


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-25.11	-13	Pass
716.1	719	0.1	CHP	2	716.180	-22.84	-13	Pass

5.2.2 B12_3MHz

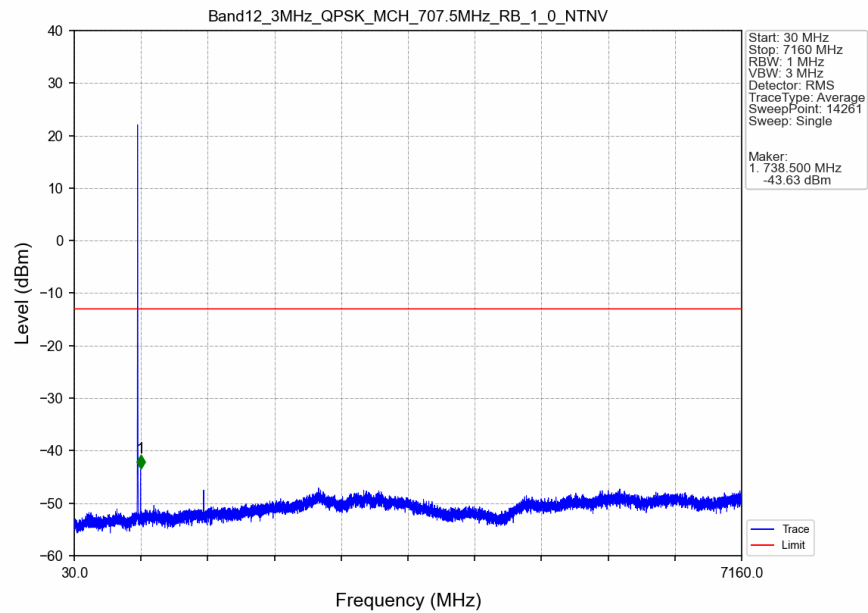


Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV

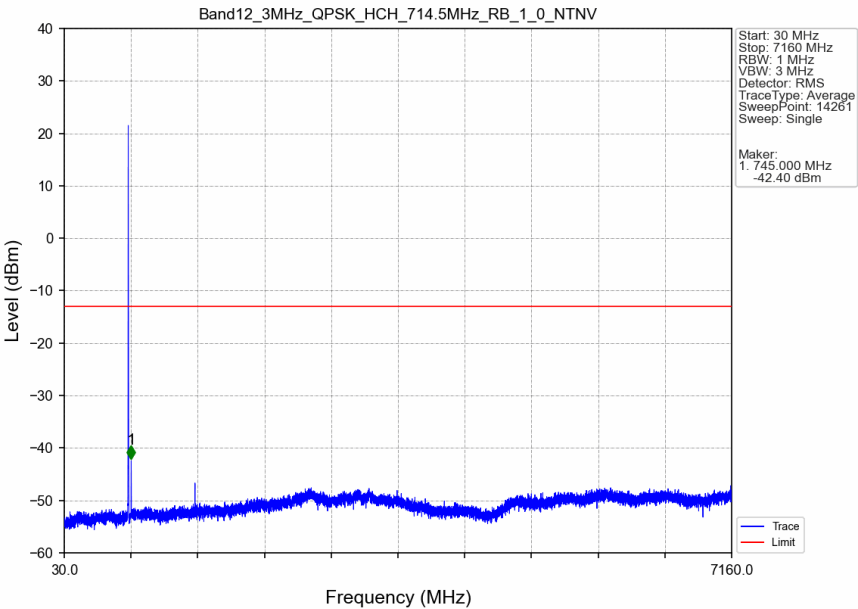


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.826	-29.00	-13	Pass
698.9	699	0.03	/	2	698.988	-30.79	-13	Pass
699	702	0.03	/	/	/	/	/	/

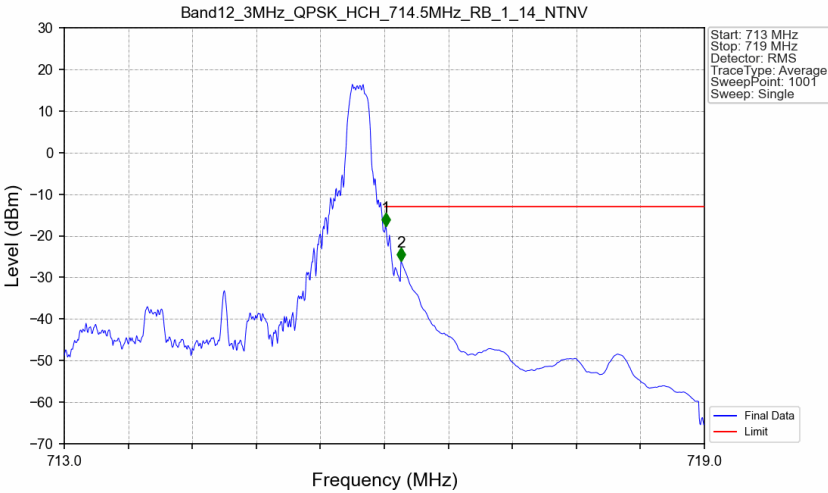
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN

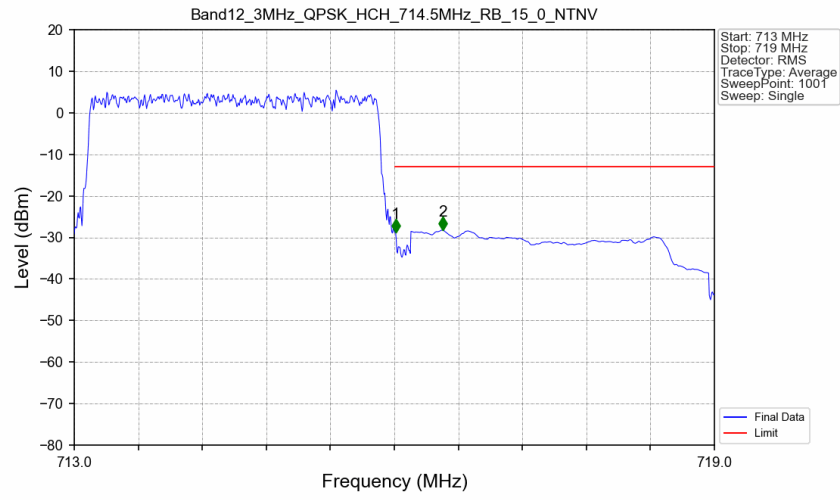


Band12 3MHz QPSK HCH 714.5MHz RB 1 14 NTN



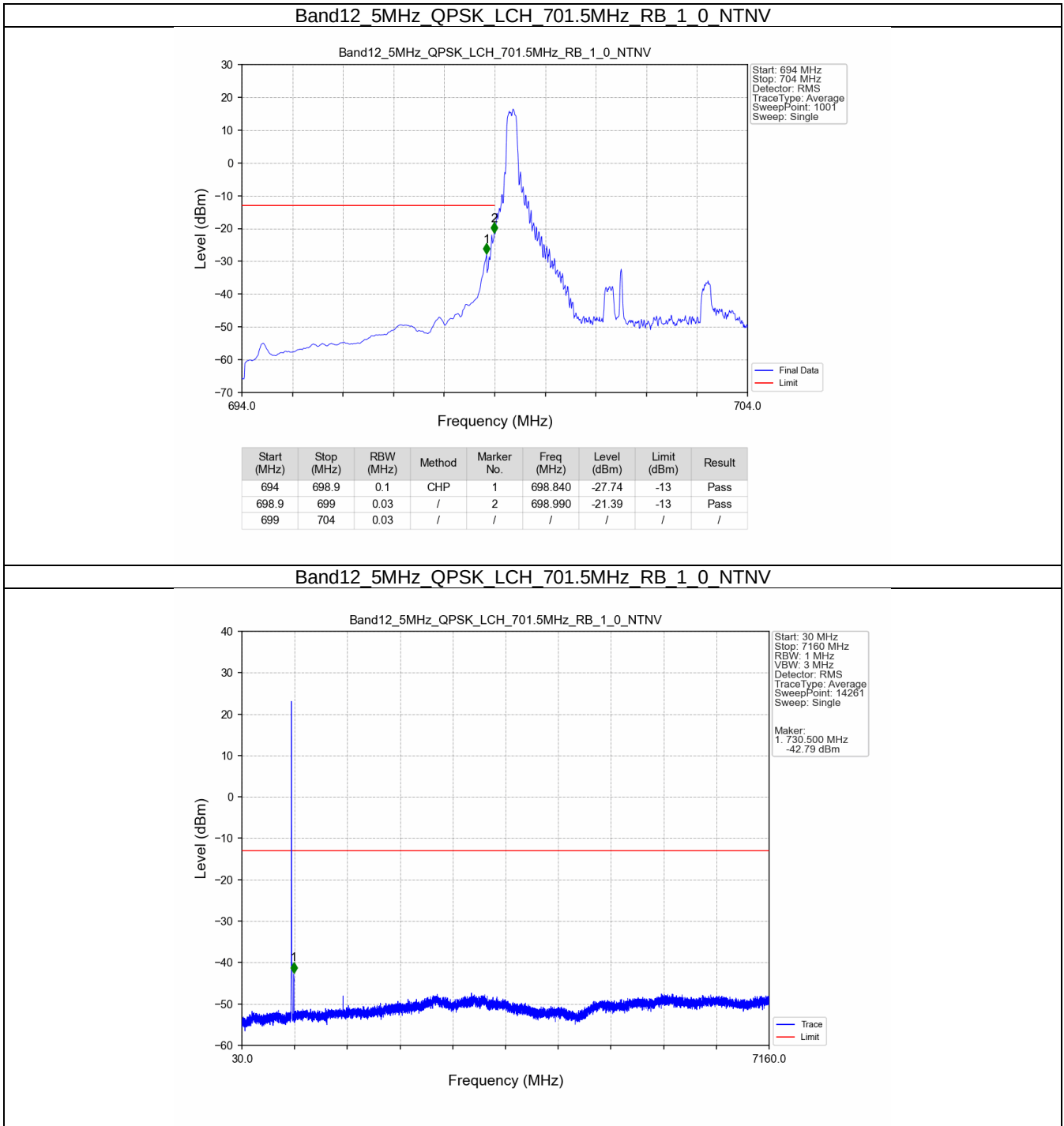
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-17.72	-13	Pass
716.1	719	0.1	CHP	2	716.156	-26.03	-13	Pass

Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTN

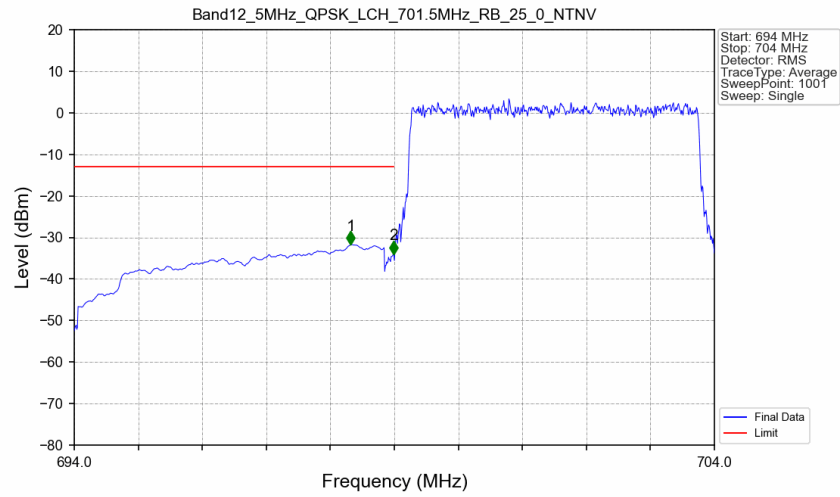


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-28.75	-13	Pass
716.1	719	0.1	CHP	2	716.456	-28.22	-13	Pass

5.2.3 B12_5MHz

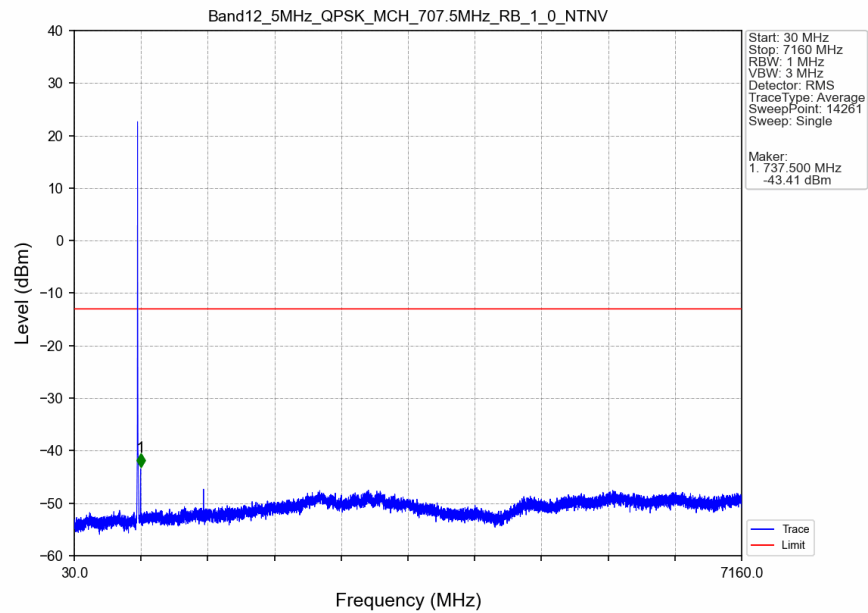


Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV

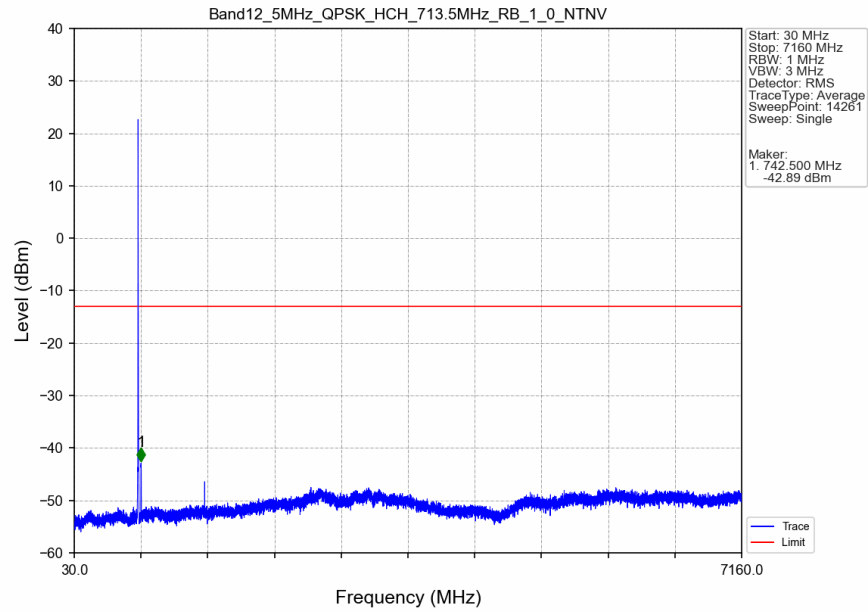


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.320	-31.74	-13	Pass
698.9	699	0.03	/	2	698.990	-33.95	-13	Pass
699	704	0.03	/	/	/	/	/	/

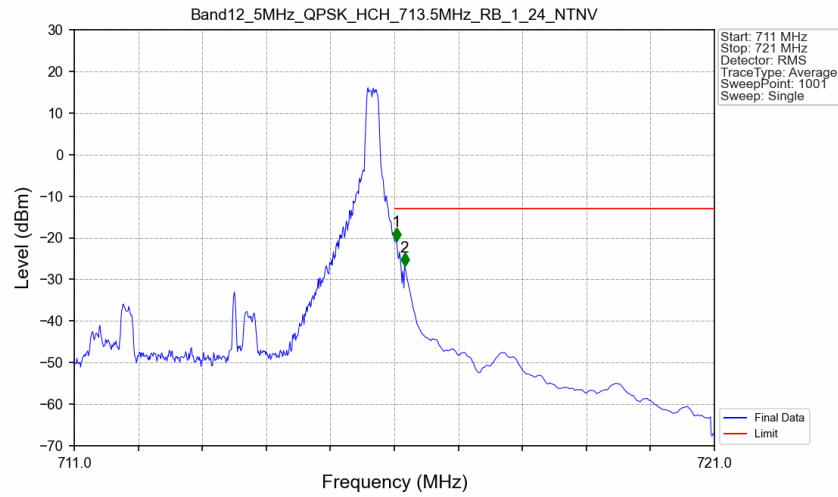
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN

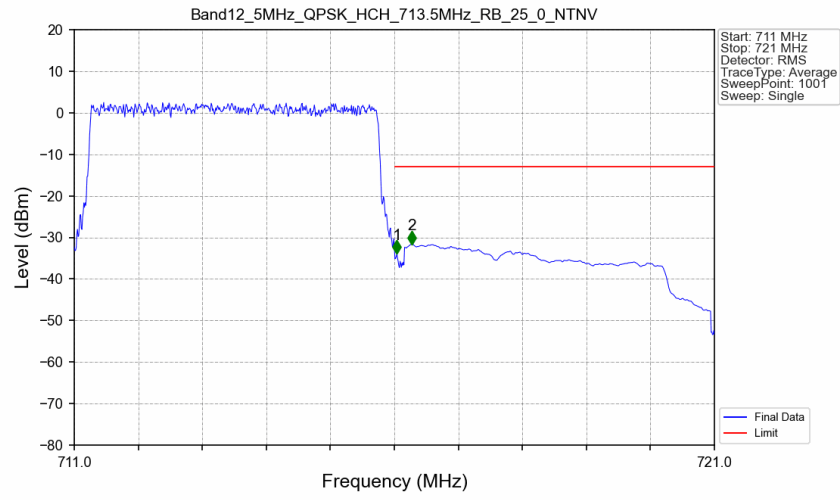


Band12 5MHz QPSK HCH 713.5MHz RB 1 24 NTN



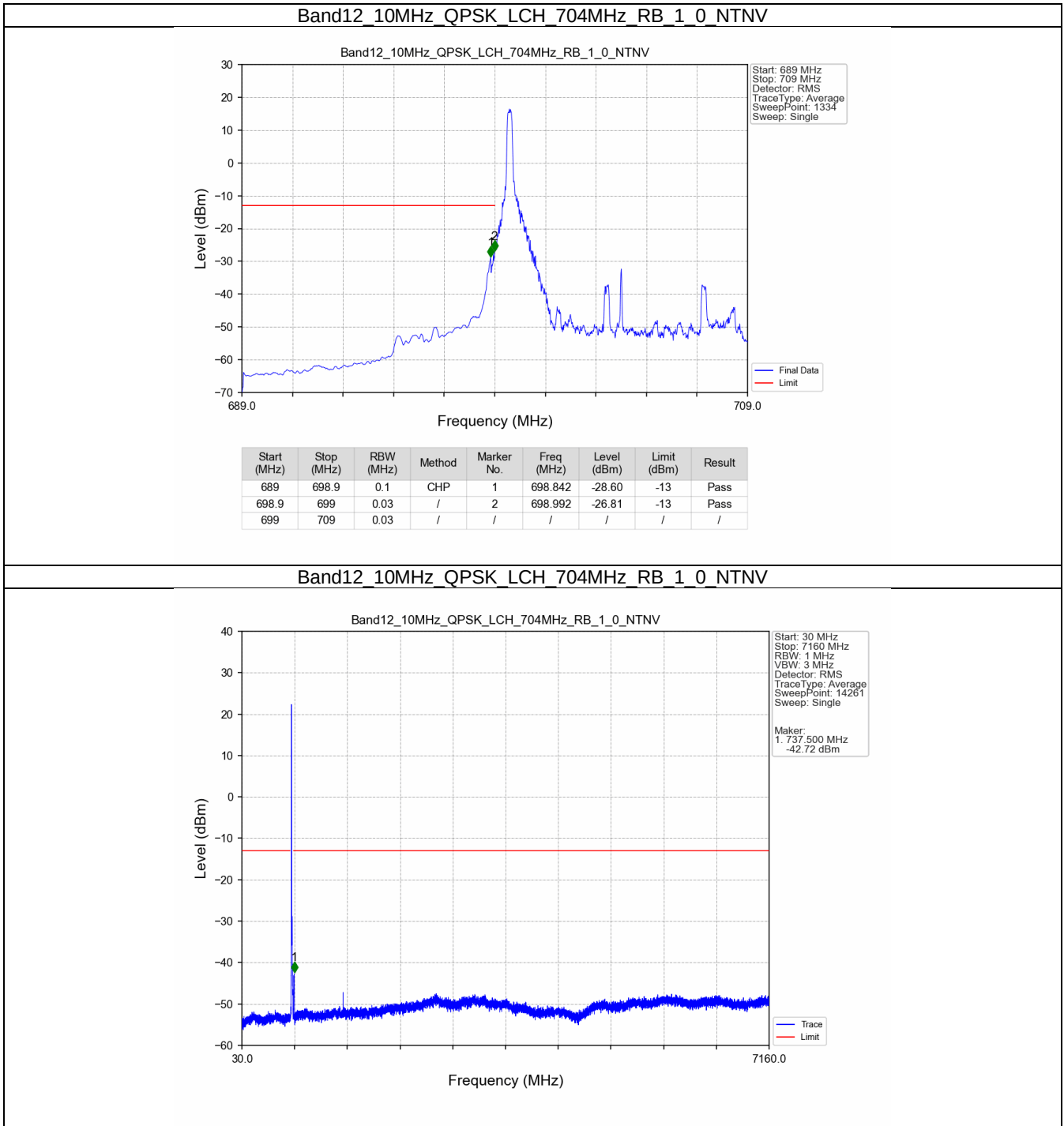
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-20.67	-13	Pass
716.1	721	0.1	CHP	2	716.160	-26.71	-13	Pass

Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTN

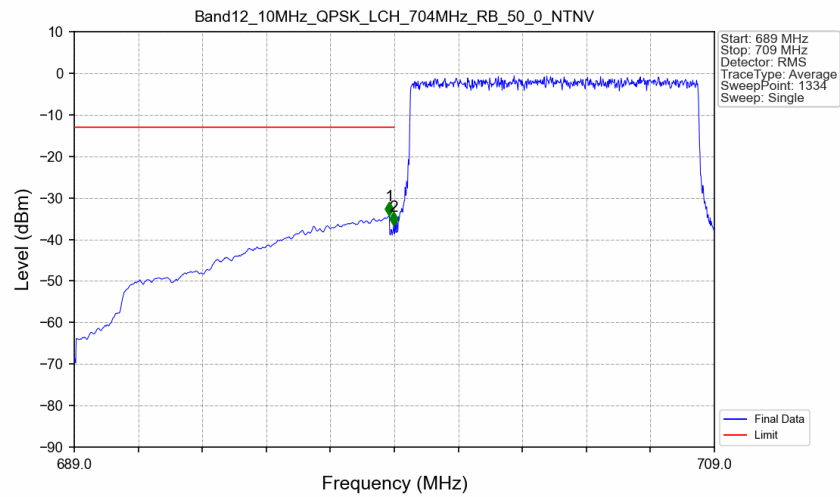


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-33.85	-13	Pass
716.1	721	0.1	CHP	2	716.270	-31.58	-13	Pass

5.2.4 B12_10MHz

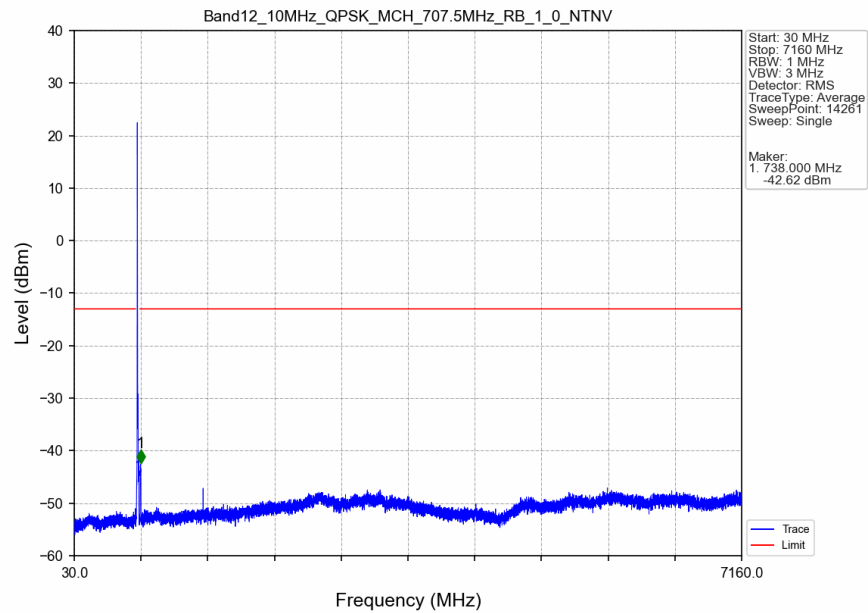


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

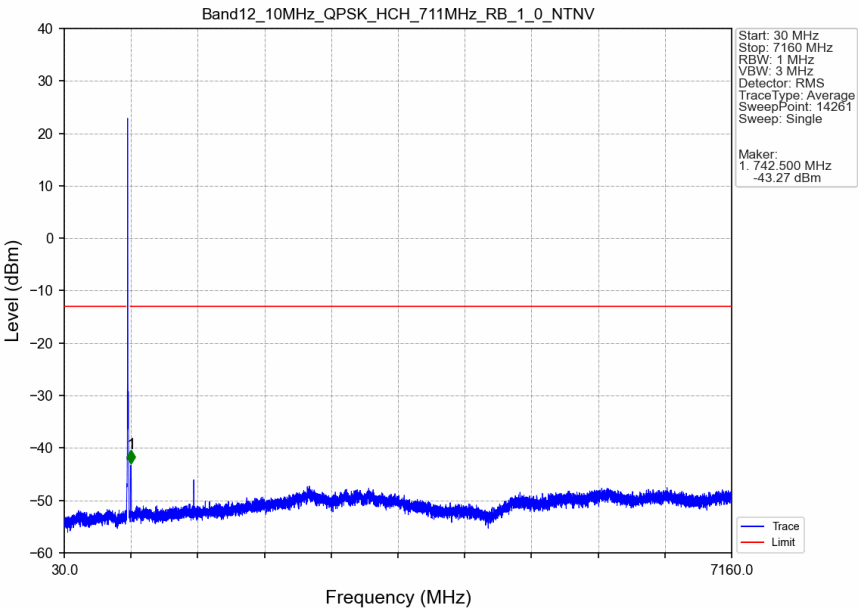


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-34.12	-13	Pass
698.9	699	0.03	/	2	698.977	-36.52	-13	Pass
699	709	0.03	/	/	/	/	/	/

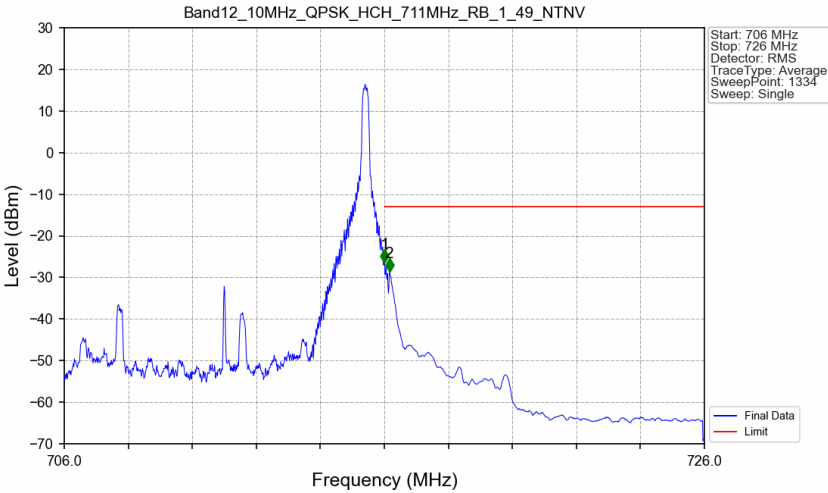
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12 10MHz QPSK HCH 711MHz RB 1 0 NTN

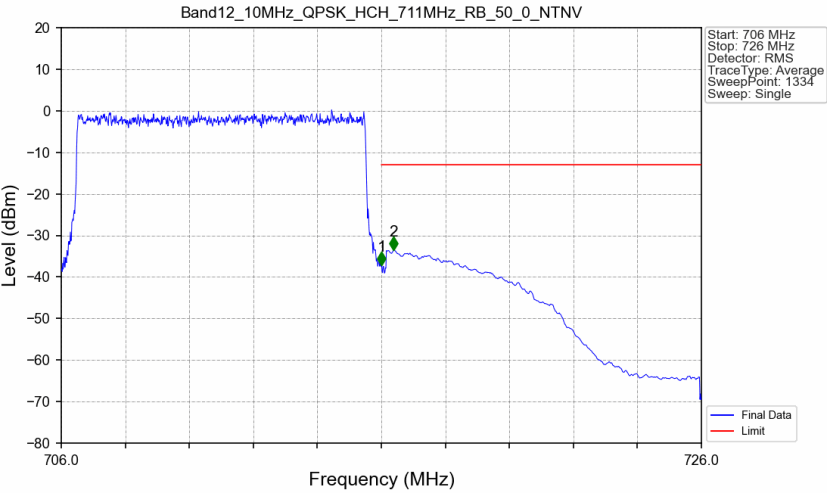


Band12 10MHz QPSK HCH 711MHz RB 1 49 NTN



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	-26.38	-13	Pass
716.1	726	0.1	CHP	2	716.158	-28.53	-13	Pass

Band12 10MHz QPSK HCH 711MHz RB 50 0 NTV



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	-37.21	-13	Pass
716.1	726	0.1	CHP	2	716.383	-33.49	-13	Pass