

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	23.71	-1.47	20.09	<=34.77	Pass
			7	23.84	-1.47	20.22	<=34.77	Pass
			14	23.71	-1.47	20.09	<=34.77	Pass
		8	0	22.68	-1.47	19.06	<=34.77	Pass
			4	22.72	-1.47	19.10	<=34.77	Pass
			7	22.68	-1.47	19.06	<=34.77	Pass
		15	0	22.66	-1.47	19.04	<=34.77	Pass
	707.5	1	0	23.65	-1.47	20.03	<=34.77	Pass
			7	23.75	-1.47	20.13	<=34.77	Pass
			14	23.64	-1.47	20.02	<=34.77	Pass
		8	0	22.70	-1.47	19.08	<=34.77	Pass
			4	22.72	-1.47	19.10	<=34.77	Pass
			7	22.70	-1.47	19.08	<=34.77	Pass
		15	0	22.68	-1.47	19.06	<=34.77	Pass
	714.5	1	0	23.67	-1.47	20.05	<=34.77	Pass
			7	23.84	-1.47	20.22	<=34.77	Pass
			14	23.70	-1.47	20.08	<=34.77	Pass
		8	0	22.70	-1.47	19.08	<=34.77	Pass
			4	22.74	-1.47	19.12	<=34.77	Pass
			7	22.70	-1.47	19.08	<=34.77	Pass
		15	0	22.67	-1.47	19.05	<=34.77	Pass
16QAM	700.5	1	0	22.67	-1.47	19.05	<=34.77	Pass
			7	22.84	-1.47	19.22	<=34.77	Pass
			14	22.72	-1.47	19.10	<=34.77	Pass
		8	0	21.71	-1.47	18.09	<=34.77	Pass
			4	21.78	-1.47	18.16	<=34.77	Pass
			7	21.73	-1.47	18.11	<=34.77	Pass
		15	0	21.73	-1.47	18.11	<=34.77	Pass
	707.5	1	0	22.89	-1.47	19.27	<=34.77	Pass
			7	22.98	-1.47	19.36	<=34.77	Pass
			14	22.83	-1.47	19.21	<=34.77	Pass
		8	0	21.68	-1.47	18.06	<=34.77	Pass
			4	21.71	-1.47	18.09	<=34.77	Pass
			7	21.67	-1.47	18.05	<=34.77	Pass
		15	0	21.67	-1.47	18.05	<=34.77	Pass
	714.5	1	0	23.21	-1.47	19.59	<=34.77	Pass
			7	23.32	-1.47	19.70	<=34.77	Pass
			14	23.14	-1.47	19.52	<=34.77	Pass
		8	0	21.89	-1.47	18.27	<=34.77	Pass
			4	21.96	-1.47	18.34	<=34.77	Pass
			7	21.90	-1.47	18.28	<=34.77	Pass
		15	0	21.80	-1.47	18.18	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.53	-1.47	19.91	<=34.77	Pass
			13	23.65	-1.47	20.03	<=34.77	Pass
			24	23.60	-1.47	19.98	<=34.77	Pass
		12	0	22.65	-1.47	19.03	<=34.77	Pass
			6	22.72	-1.47	19.10	<=34.77	Pass
			13	22.64	-1.47	19.02	<=34.77	Pass
		25	0	22.64	-1.47	19.02	<=34.77	Pass

16QAM	707.5	1	0	23.56	-1.47	19.94	<=34.77	Pass
			13	23.66	-1.47	20.04	<=34.77	Pass
			24	23.59	-1.47	19.97	<=34.77	Pass
		12	0	22.65	-1.47	19.03	<=34.77	Pass
			6	22.72	-1.47	19.10	<=34.77	Pass
			13	22.75	-1.47	19.13	<=34.77	Pass
		25	0	22.68	-1.47	19.06	<=34.77	Pass
	713.5	1	0	23.60	-1.47	19.98	<=34.77	Pass
			13	23.71	-1.47	20.09	<=34.77	Pass
			24	23.64	-1.47	20.02	<=34.77	Pass
		12	0	22.79	-1.47	19.17	<=34.77	Pass
			6	22.75	-1.47	19.13	<=34.77	Pass
			13	22.62	-1.47	19.00	<=34.77	Pass
		25	0	22.69	-1.47	19.07	<=34.77	Pass
	701.5	1	0	22.74	-1.47	19.12	<=34.77	Pass
			13	22.92	-1.47	19.30	<=34.77	Pass
			24	22.93	-1.47	19.31	<=34.77	Pass
		12	0	21.68	-1.47	18.06	<=34.77	Pass
			6	21.73	-1.47	18.11	<=34.77	Pass
			13	21.70	-1.47	18.08	<=34.77	Pass
		25	0	21.66	-1.47	18.04	<=34.77	Pass
	707.5	1	0	22.47	-1.47	18.85	<=34.77	Pass
			13	22.55	-1.47	18.93	<=34.77	Pass
			24	22.48	-1.47	18.86	<=34.77	Pass
		12	0	21.63	-1.47	18.01	<=34.77	Pass
			6	21.71	-1.47	18.09	<=34.77	Pass
			13	21.74	-1.47	18.12	<=34.77	Pass
		25	0	21.74	-1.47	18.12	<=34.77	Pass
	713.5	1	0	22.69	-1.47	19.07	<=34.77	Pass
			13	22.80	-1.47	19.18	<=34.77	Pass
			24	22.70	-1.47	19.08	<=34.77	Pass
		12	0	21.73	-1.47	18.11	<=34.77	Pass
			6	21.72	-1.47	18.10	<=34.77	Pass
			13	21.64	-1.47	18.02	<=34.77	Pass
		25	0	21.78	-1.47	18.16	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	23.58	-1.47	19.96	<=34.77	Pass
			25	23.81	-1.47	20.19	<=34.77	Pass
			49	23.68	-1.47	20.06	<=34.77	Pass
		25	0	22.82	-1.47	19.20	<=34.77	Pass
			13	22.77	-1.47	19.15	<=34.77	Pass
			25	22.84	-1.47	19.22	<=34.77	Pass
	707.5	50	0	22.83	-1.47	19.21	<=34.77	Pass
		1	0	23.59	-1.47	19.97	<=34.77	Pass
			25	23.75	-1.47	20.13	<=34.77	Pass
			49	23.69	-1.47	20.07	<=34.77	Pass
		25	0	22.75	-1.47	19.13	<=34.77	Pass
			13	22.76	-1.47	19.14	<=34.77	Pass
			25	22.75	-1.47	19.13	<=34.77	Pass
		50	0	22.81	-1.47	19.19	<=34.77	Pass
	711	1	0	23.64	-1.47	20.02	<=34.77	Pass
			25	23.88	-1.47	20.26	<=34.77	Pass



16QAM		25	49	23.75	-1.47	20.13	<=34.77	Pass
			0	22.65	-1.47	19.03	<=34.77	Pass
			13	22.73	-1.47	19.11	<=34.77	Pass
			25	22.59	-1.47	18.97	<=34.77	Pass
		50	0	22.68	-1.47	19.06	<=34.77	Pass
	704	1	0	22.76	-1.47	19.14	<=34.77	Pass
			25	23.04	-1.47	19.42	<=34.77	Pass
			49	22.86	-1.47	19.24	<=34.77	Pass
		25	0	21.85	-1.47	18.23	<=34.77	Pass
			13	21.83	-1.47	18.21	<=34.77	Pass
			25	21.87	-1.47	18.25	<=34.77	Pass
		50	0	21.87	-1.47	18.25	<=34.77	Pass
		1	0	23.20	-1.47	19.58	<=34.77	Pass
			25	23.31	-1.47	19.69	<=34.77	Pass
			49	23.24	-1.47	19.62	<=34.77	Pass
	707.5	25	0	21.83	-1.47	18.21	<=34.77	Pass
			13	21.83	-1.47	18.21	<=34.77	Pass
			25	21.82	-1.47	18.20	<=34.77	Pass
		50	0	21.84	-1.47	18.22	<=34.77	Pass
		1	0	22.69	-1.47	19.07	<=34.77	Pass
			25	22.88	-1.47	19.26	<=34.77	Pass
			49	22.72	-1.47	19.10	<=34.77	Pass
		25	0	21.74	-1.47	18.12	<=34.77	Pass
			13	21.82	-1.47	18.20	<=34.77	Pass
			25	21.74	-1.47	18.12	<=34.77	Pass
	711	50	0	21.73	-1.47	18.11	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	-7.238	-0.0103	-2.5 to 2.5	Pass
					3.85	-8.140	-0.0116	-2.5 to 2.5	Pass
					4.43	-7.882	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-8.984	-0.0128	-2.5 to 2.5	Pass
				-10	3.85	-7.896	-0.0113	-2.5 to 2.5	Pass
				0	3.85	-2.861	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-8.855	-0.0127	-2.5 to 2.5	Pass
				30	3.85	-6.166	-0.0088	-2.5 to 2.5	Pass
				40	3.85	-6.652	-0.0095	-2.5 to 2.5	Pass
				50	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-8.883	-0.0126	-2.5 to 2.5	Pass
					3.85	-3.605	-0.0051	-2.5 to 2.5	Pass
					4.43	-6.638	-0.0094	-2.5 to 2.5	Pass
				-30	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-5.236	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-9.341	-0.0132	-2.5 to 2.5	Pass
				10	3.85	-7.768	-0.0110	-2.5 to 2.5	Pass
				30	3.85	-6.738	-0.0095	-2.5 to 2.5	Pass
				40	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass
				50	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-3.362	-0.0047	-2.5 to 2.5	Pass
					3.85	-4.520	-0.0063	-2.5 to 2.5	Pass
					4.43	-5.865	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-5.593	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-6.423	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-2.260	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-5.221	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-2.618	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-5.565	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-4.277	-0.0060	-2.5 to 2.5	Pass
				50	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-7.524	-0.0108	-2.5 to 2.5	Pass
					3.85	-6.938	-0.0099	-2.5 to 2.5	Pass
					4.43	-5.078	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-5.851	-0.0084	-2.5 to 2.5	Pass
				-20	3.85	-5.093	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-9.685	-0.0138	-2.5 to 2.5	Pass
				0	3.85	-6.981	-0.0100	-2.5 to 2.5	Pass
				10	3.85	-7.024	-0.0100	-2.5 to 2.5	Pass
				30	3.85	-7.854	-0.0112	-2.5 to 2.5	Pass
				40	3.85	-11.415	-0.0163	-2.5 to 2.5	Pass
				50	3.85	-5.465	-0.0078	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-4.721	-0.0067	-2.5 to 2.5	Pass
					3.85	-5.465	-0.0077	-2.5 to 2.5	Pass
					4.43	-4.249	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				-20	3.85	-8.726	-0.0123	-2.5 to 2.5	Pass
				-10	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass

				0	3.85	-5.450	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-3.204	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-3.047	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-4.749	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-6.223	-0.0088	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-2.832	-0.0040	-2.5 to 2.5	Pass
					3.85	-5.221	-0.0073	-2.5 to 2.5	Pass
					4.43	-6.251	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-7.854	-0.0110	-2.5 to 2.5	Pass
				-20	3.85	-4.706	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass
				0	3.85	-3.662	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-2.747	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-3.920	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-8.368	-0.0117	-2.5 to 2.5	Pass
				50	3.85	-4.821	-0.0067	-2.5 to 2.5	Pass

2.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	-6.022	-0.0086	-2.5 to 2.5	Pass
					3.85	-9.499	-0.0136	-2.5 to 2.5	Pass
					4.43	-6.723	-0.0096	-2.5 to 2.5	Pass
				-30	3.85	-8.612	-0.0123	-2.5 to 2.5	Pass
				-20	3.85	-2.303	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-10.128	-0.0145	-2.5 to 2.5	Pass
				0	3.85	-7.496	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-9.184	-0.0131	-2.5 to 2.5	Pass
				30	3.85	-10.500	-0.0150	-2.5 to 2.5	Pass
				40	3.85	-6.638	-0.0095	-2.5 to 2.5	Pass
				50	3.85	-6.394	-0.0091	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-5.064	-0.0072	-2.5 to 2.5	Pass
					3.85	-5.064	-0.0072	-2.5 to 2.5	Pass
					4.43	-5.751	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-2.646	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-4.063	-0.0057	-2.5 to 2.5	Pass
				-10	3.85	-5.236	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-5.250	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-3.734	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-5.751	-0.0081	-2.5 to 2.5	Pass
				40	3.85	-1.674	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-4.020	-0.0057	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-5.436	-0.0076	-2.5 to 2.5	Pass
					3.85	-4.263	-0.0060	-2.5 to 2.5	Pass
					4.43	-4.878	-0.0068	-2.5 to 2.5	Pass
				-30	3.85	-7.439	-0.0104	-2.5 to 2.5	Pass
				-20	3.85	-4.606	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-8.054	-0.0113	-2.5 to 2.5	Pass
				10	3.85	-8.039	-0.0113	-2.5 to 2.5	Pass
				30	3.85	-4.721	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-7.596	-0.0106	-2.5 to 2.5	Pass
				50	3.85	-5.679	-0.0079	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-3.104	-0.0044	-2.5 to 2.5	Pass
					3.85	-3.633	-0.0052	-2.5 to 2.5	Pass
					4.43	-10.142	-0.0145	-2.5 to 2.5	Pass

				-30	3.85	-6.709	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-5.565	-0.0079	-2.5 to 2.5	Pass
				-10	3.85	-4.191	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-7.496	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-7.567	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-6.938	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-3.920	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-9.627	-0.0136	-2.5 to 2.5	Pass
					3.85	-5.851	-0.0083	-2.5 to 2.5	Pass
					4.43	-6.380	-0.0090	-2.5 to 2.5	Pass
				-30	3.85	-5.736	-0.0081	-2.5 to 2.5	Pass
				-20	3.85	-4.592	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	-5.608	-0.0079	-2.5 to 2.5	Pass
				0	3.85	-4.406	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-8.769	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-5.808	-0.0082	-2.5 to 2.5	Pass
				50	3.85	-4.992	-0.0071	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-5.736	-0.0080	-2.5 to 2.5	Pass
					3.85	-5.293	-0.0074	-2.5 to 2.5	Pass
					4.43	-4.506	-0.0063	-2.5 to 2.5	Pass
				-30	3.85	-7.825	-0.0110	-2.5 to 2.5	Pass
				-20	3.85	-9.241	-0.0129	-2.5 to 2.5	Pass
				-10	3.85	-5.064	-0.0071	-2.5 to 2.5	Pass
				0	3.85	-7.553	-0.0106	-2.5 to 2.5	Pass
				10	3.85	-3.619	-0.0051	-2.5 to 2.5	Pass
				30	3.85	-0.744	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-6.251	-0.0087	-2.5 to 2.5	Pass
				50	3.85	-9.427	-0.0132	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	-5.808	-0.0083	-2.5 to 2.5	Pass
					3.85	-8.612	-0.0123	-2.5 to 2.5	Pass
					4.43	-8.540	-0.0122	-2.5 to 2.5	Pass
				-30	3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-5.593	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-6.766	-0.0096	-2.5 to 2.5	Pass
				10	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-6.409	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-6.008	-0.0085	-2.5 to 2.5	Pass
					3.85	-7.324	-0.0104	-2.5 to 2.5	Pass
					4.43	-5.636	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-3.591	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-4.234	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-9.556	-0.0135	-2.5 to 2.5	Pass
				0	3.85	-4.978	-0.0070	-2.5 to 2.5	Pass
				10	3.85	-4.592	-0.0065	-2.5 to 2.5	Pass
				30	3.85	-5.078	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-6.924	-0.0098	-2.5 to 2.5	Pass
				50	3.85	-2.117	-0.0030	-2.5 to 2.5	Pass

	713.5	25	0	20	3.27	-7.210	-0.0101	-2.5 to 2.5	Pass
					3.85	-9.656	-0.0135	-2.5 to 2.5	Pass
					4.43	-9.642	-0.0135	-2.5 to 2.5	Pass
				-30	3.85	-9.513	-0.0133	-2.5 to 2.5	Pass
				-20	3.85	-10.443	-0.0146	-2.5 to 2.5	Pass
				-10	3.85	-7.854	-0.0110	-2.5 to 2.5	Pass
				0	3.85	-4.363	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-8.612	-0.0121	-2.5 to 2.5	Pass
				30	3.85	-3.734	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-9.971	-0.0140	-2.5 to 2.5	Pass
				50	3.85	-6.351	-0.0089	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-8.669	-0.0124	-2.5 to 2.5	Pass
					3.85	-7.095	-0.0101	-2.5 to 2.5	Pass
					4.43	-4.191	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-9.141	-0.0130	-2.5 to 2.5	Pass
				-20	3.85	-7.997	-0.0114	-2.5 to 2.5	Pass
				-10	3.85	-6.022	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-6.137	-0.0087	-2.5 to 2.5	Pass
				30	3.85	-9.828	-0.0140	-2.5 to 2.5	Pass
				40	3.85	-5.507	-0.0079	-2.5 to 2.5	Pass
				50	3.85	-7.124	-0.0102	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-4.950	-0.0070	-2.5 to 2.5	Pass
					3.85	-9.613	-0.0136	-2.5 to 2.5	Pass
					4.43	-7.482	-0.0106	-2.5 to 2.5	Pass
				-30	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-4.463	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-7.267	-0.0103	-2.5 to 2.5	Pass
				0	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-6.881	-0.0097	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-9.685	-0.0137	-2.5 to 2.5	Pass
				50	3.85	-4.420	-0.0062	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-8.183	-0.0115	-2.5 to 2.5	Pass
					3.85	-3.433	-0.0048	-2.5 to 2.5	Pass
					4.43	-5.608	-0.0079	-2.5 to 2.5	Pass
				-30	3.85	-10.257	-0.0144	-2.5 to 2.5	Pass
				-20	3.85	-7.639	-0.0107	-2.5 to 2.5	Pass
				-10	3.85	-1.488	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-10.672	-0.0150	-2.5 to 2.5	Pass
				30	3.85	-3.533	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-6.166	-0.0086	-2.5 to 2.5	Pass
				50	3.85	-6.638	-0.0093	-2.5 to 2.5	Pass

2.1.4 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	704	50	0	20	3.27	-4.663	-0.0066	-2.5 to 2.5	Pass
					3.85	-3.490	-0.0050	-2.5 to 2.5	Pass
					4.43	-2.131	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-7.954	-0.0113	-2.5 to 2.5	Pass
				-20	3.85	-4.635	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-5.808	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-5.293	-0.0075	-2.5 to 2.5	Pass

				30	3.85	-5.422	-0.0077	-2.5 to 2.5	Pass
				40	3.85	-2.217	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-2.360	-0.0034	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-4.578	-0.0065	-2.5 to 2.5	Pass
					3.85	-5.865	-0.0083	-2.5 to 2.5	Pass
					4.43	-6.866	-0.0097	-2.5 to 2.5	Pass
				-30	3.85	-9.255	-0.0131	-2.5 to 2.5	Pass
				-20	3.85	-6.037	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-4.420	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-4.892	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass
				40	3.85	-3.805	-0.0054	-2.5 to 2.5	Pass
				50	3.85	-3.734	-0.0053	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-8.526	-0.0120	-2.5 to 2.5	Pass
					3.85	-9.499	-0.0134	-2.5 to 2.5	Pass
					4.43	-3.576	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-4.778	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-4.535	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-4.263	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-9.456	-0.0133	-2.5 to 2.5	Pass
				10	3.85	-3.448	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-5.050	-0.0071	-2.5 to 2.5	Pass
				40	3.85	-3.734	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-7.653	-0.0108	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-4.721	-0.0067	-2.5 to 2.5	Pass
					3.85	-5.922	-0.0084	-2.5 to 2.5	Pass
					4.43	-5.608	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-7.567	-0.0107	-2.5 to 2.5	Pass
				-20	3.85	-5.722	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-6.680	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-4.792	-0.0068	-2.5 to 2.5	Pass
				10	3.85	-6.537	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-6.495	-0.0092	-2.5 to 2.5	Pass
				50	3.85	-2.646	-0.0038	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-7.124	-0.0101	-2.5 to 2.5	Pass
					3.85	-9.799	-0.0139	-2.5 to 2.5	Pass
					4.43	-9.499	-0.0134	-2.5 to 2.5	Pass
				-30	3.85	-5.164	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-7.911	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-4.749	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-6.266	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-5.794	-0.0082	-2.5 to 2.5	Pass
				50	3.85	-5.908	-0.0084	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-6.909	-0.0097	-2.5 to 2.5	Pass
					3.85	-6.795	-0.0096	-2.5 to 2.5	Pass
					4.43	-8.669	-0.0122	-2.5 to 2.5	Pass
				-30	3.85	-9.098	-0.0128	-2.5 to 2.5	Pass
				-20	3.85	-6.323	-0.0089	-2.5 to 2.5	Pass
				-10	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-6.051	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-13.132	-0.0185	-2.5 to 2.5	Pass
				30	3.85	-10.371	-0.0146	-2.5 to 2.5	Pass
				40	3.85	-10.729	-0.0151	-2.5 to 2.5	Pass
				50	3.85	-6.781	-0.0095	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

3.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.1.3 B12_5MHz

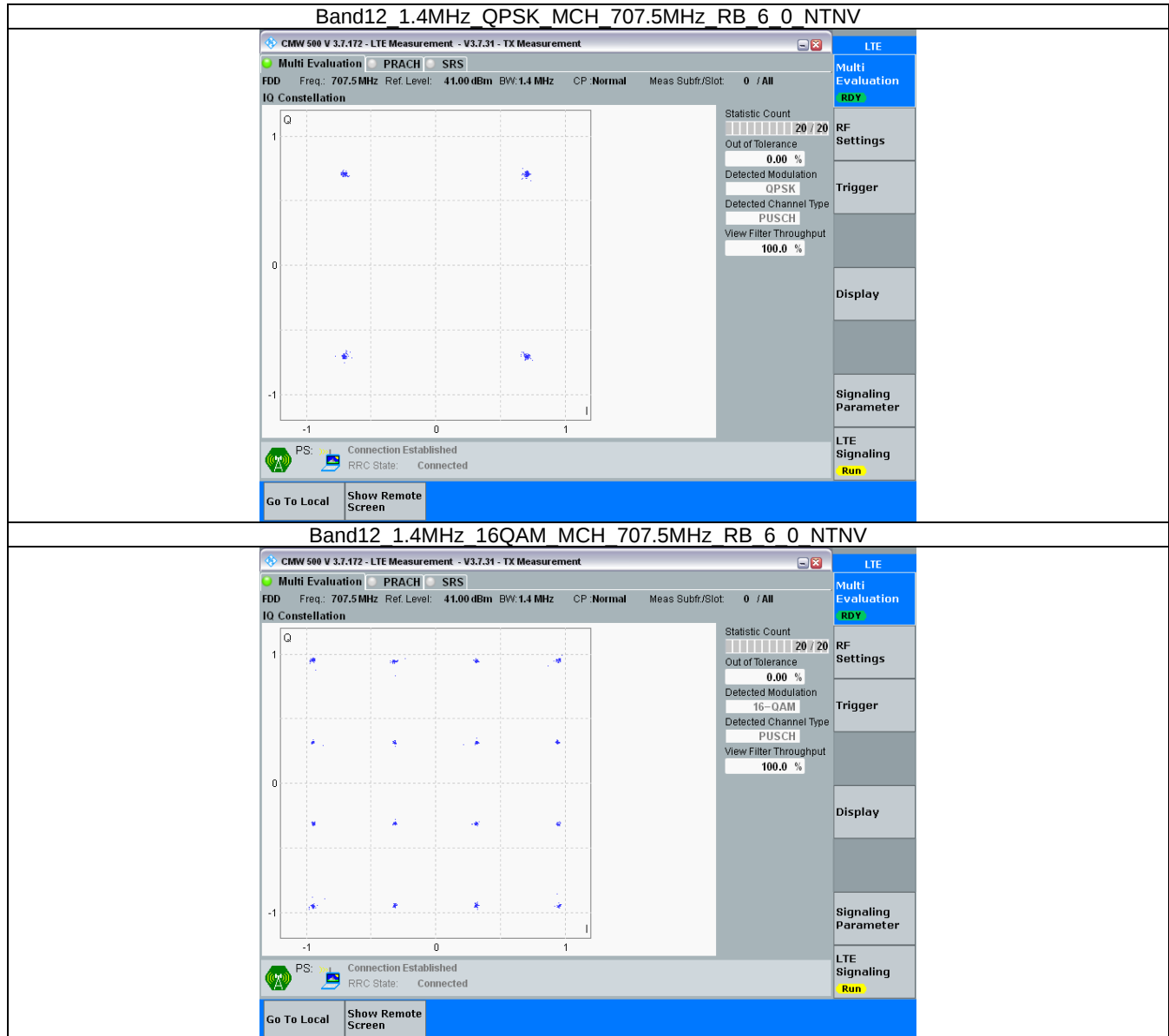
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

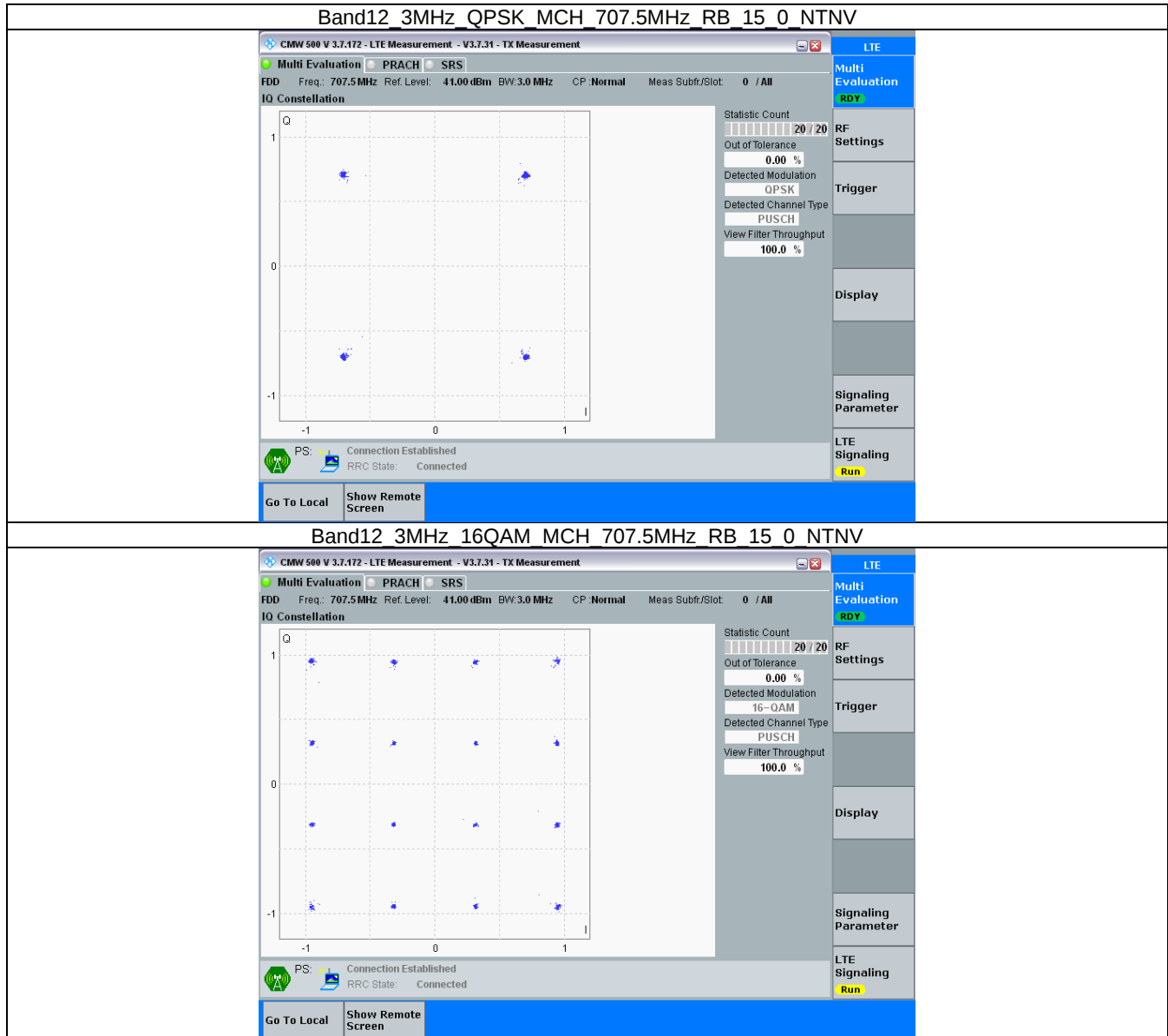
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

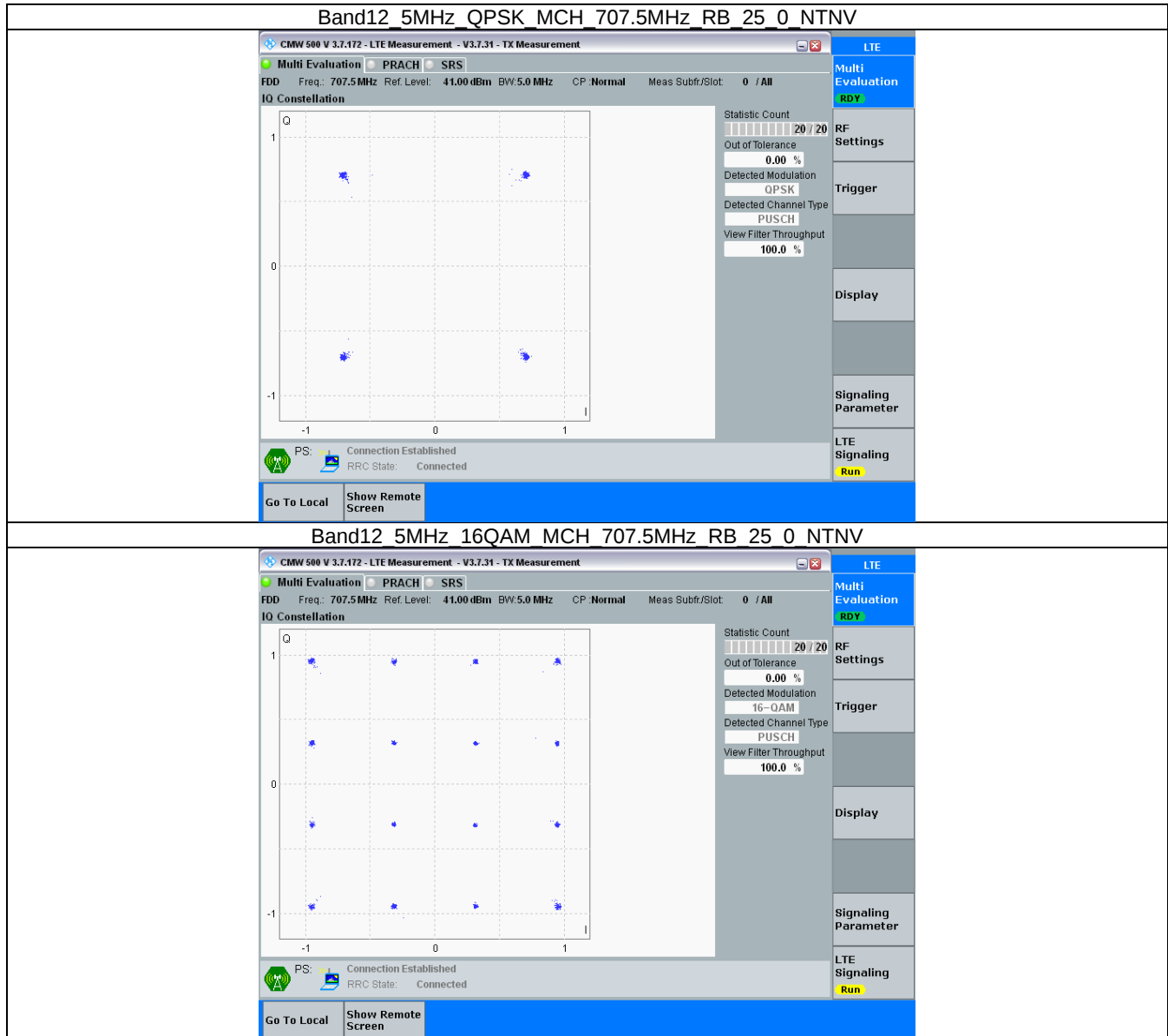
3.2.1 B12_1.4MHz



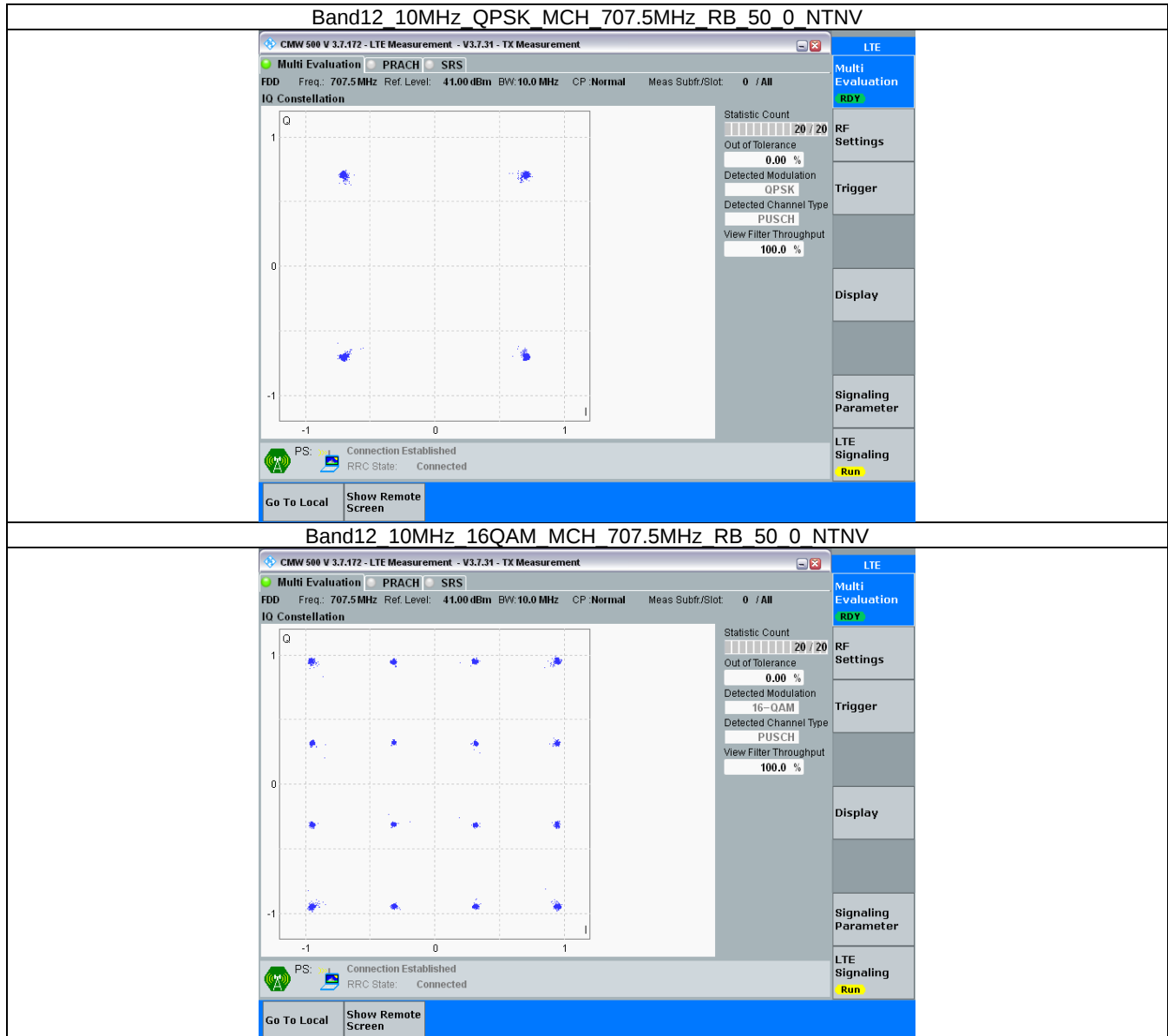
3.2.2 B12_3MHz



3.2.3 B12_5MHz



3.2.4 B12_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.110	/	Pass
		707.5	6	0	1.107	/	Pass
		715.3	6	0	1.123	/	Pass
	16QAM	699.7	6	0	1.113	/	Pass
		707.5	6	0	1.109	/	Pass
		715.3	6	0	1.107	/	Pass
3	QPSK	700.5	15	0	2.722	/	Pass
		707.5	15	0	2.725	/	Pass
		714.5	15	0	2.724	/	Pass
	16QAM	700.5	15	0	2.727	/	Pass
		707.5	15	0	2.721	/	Pass
		714.5	15	0	2.725	/	Pass
5	QPSK	701.5	25	0	4.570	/	Pass
		707.5	25	0	4.569	/	Pass
		713.5	25	0	4.557	/	Pass
	16QAM	701.5	25	0	4.565	/	Pass
		707.5	25	0	4.591	/	Pass
		713.5	25	0	4.585	/	Pass
10	QPSK	704	50	0	9.108	/	Pass
		707.5	50	0	9.090	/	Pass
		711	50	0	9.041	/	Pass
	16QAM	704	50	0	9.082	/	Pass
		707.5	50	0	9.065	/	Pass
		711	50	0	9.047	/	Pass

4.1.2 Band12_XDB

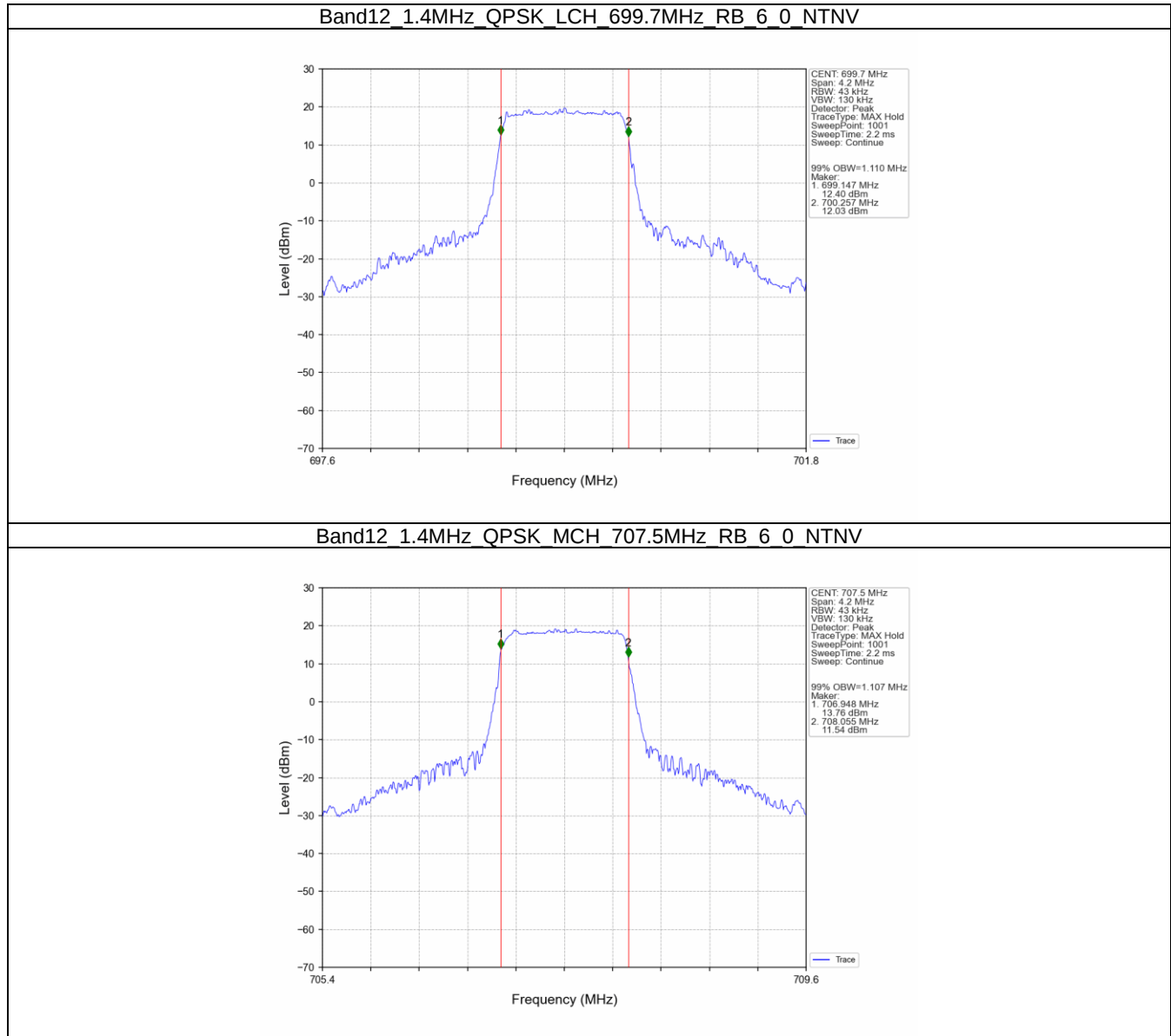
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.316	/	Pass
		707.5	6	0	1.318	/	Pass
		715.3	6	0	1.304	/	Pass
	16QAM	699.7	6	0	1.306	/	Pass
		707.5	6	0	1.335	/	Pass
		715.3	6	0	1.318	/	Pass
3	QPSK	700.5	15	0	2.989	/	Pass
		707.5	15	0	3.004	/	Pass
		714.5	15	0	2.983	/	Pass
	16QAM	700.5	15	0	3.003	/	Pass
		707.5	15	0	2.982	/	Pass
		714.5	15	0	3.007	/	Pass
5	QPSK	701.5	25	0	5.227	/	Pass
		707.5	25	0	5.265	/	Pass
		713.5	25	0	5.268	/	Pass
	16QAM	701.5	25	0	5.241	/	Pass
		707.5	25	0	5.286	/	Pass
		713.5	25	0	5.287	/	Pass
10	QPSK	704	50	0	10.391	/	Pass



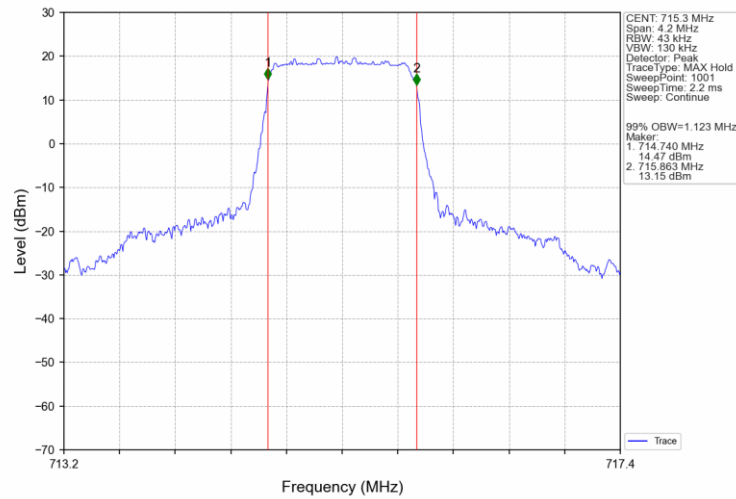
		707.5	50	0	10.338	/	Pass
		711	50	0	10.252	/	Pass
	16QAM	704	50	0	10.282	/	Pass
		707.5	50	0	10.298	/	Pass
		711	50	0	10.126	/	Pass

4.2 Test Graph

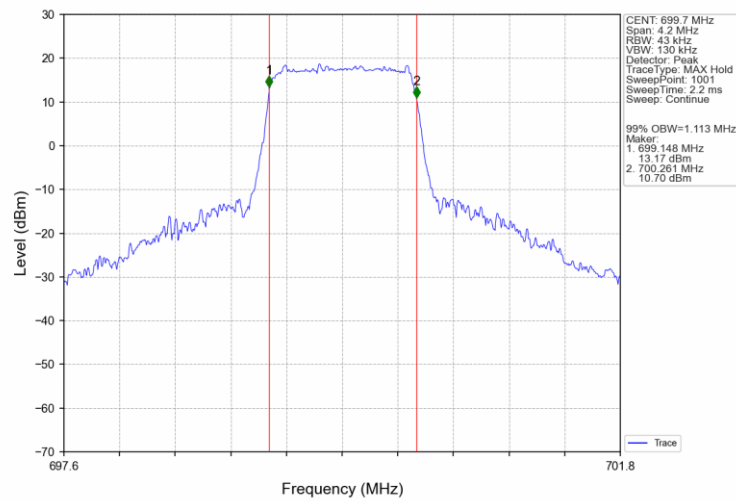
4.2.1 Band12_OBW



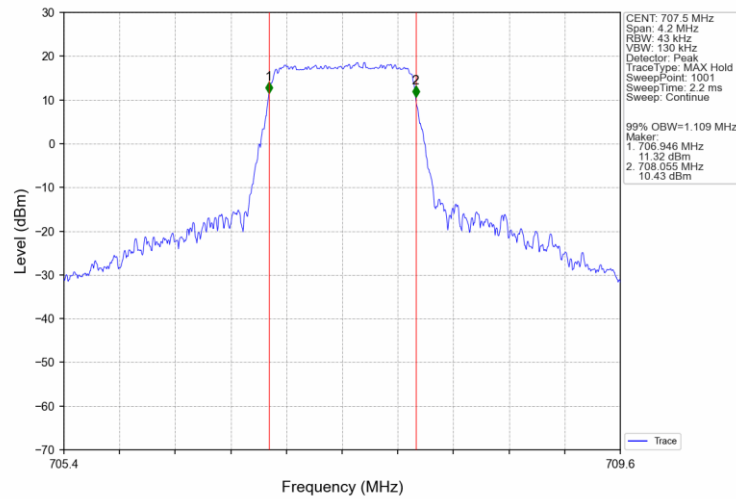
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



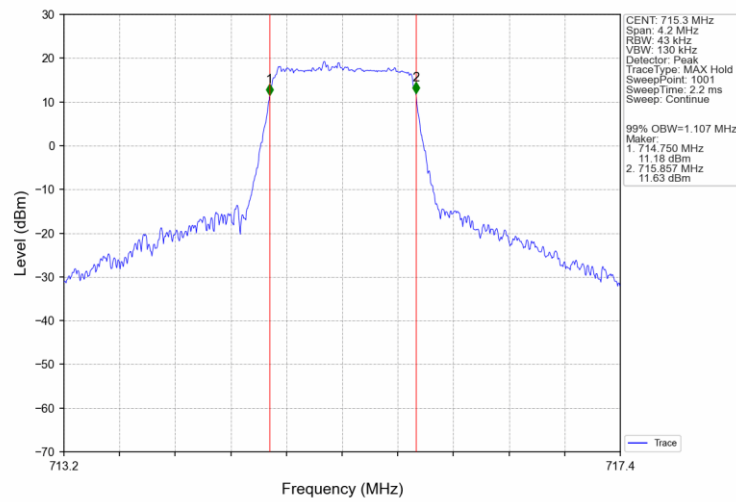
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



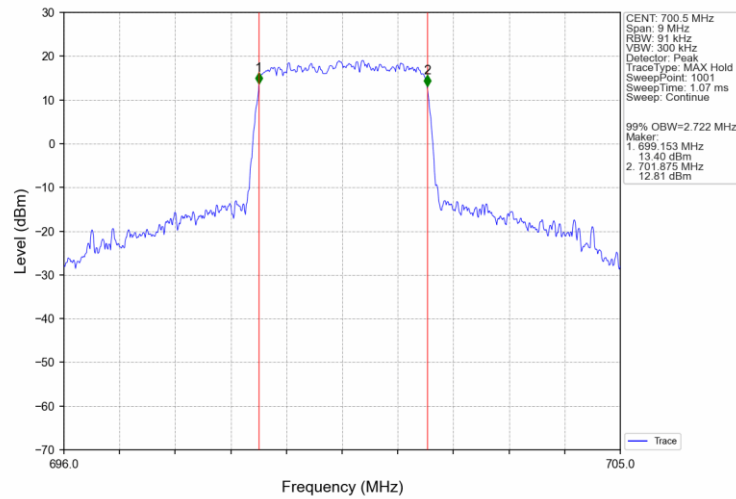
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



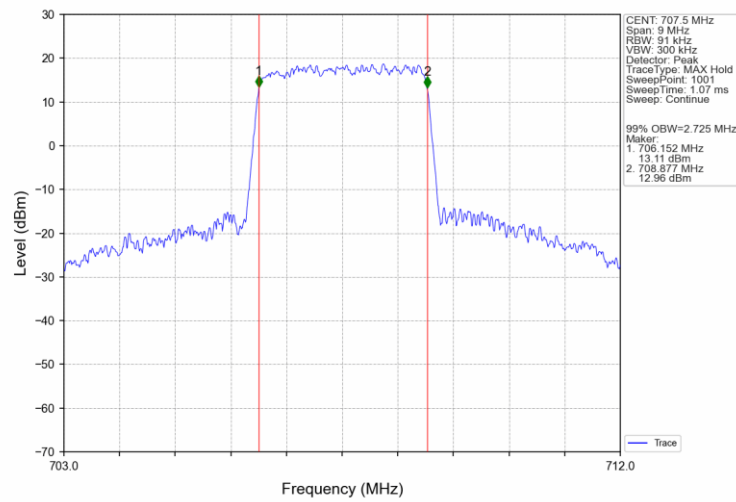
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



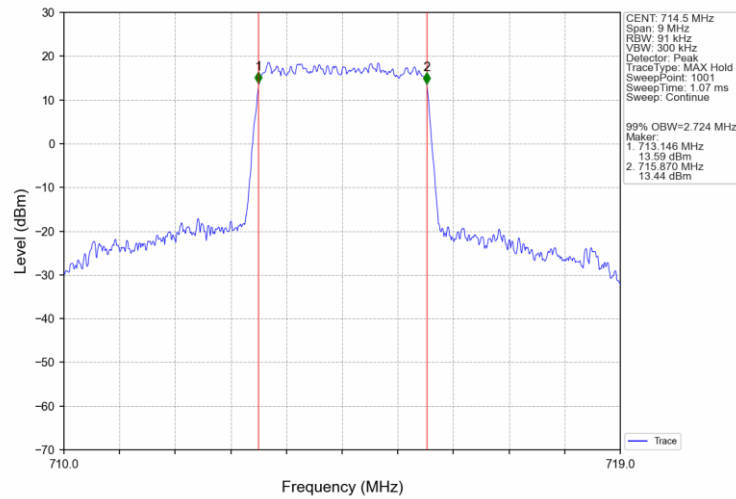
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



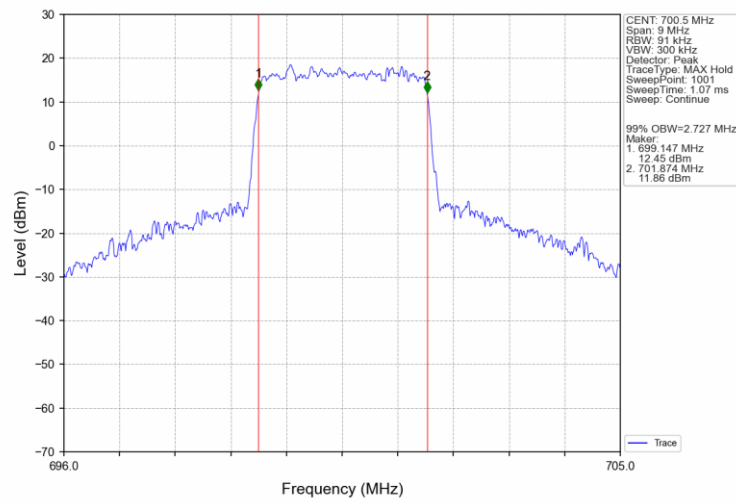
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



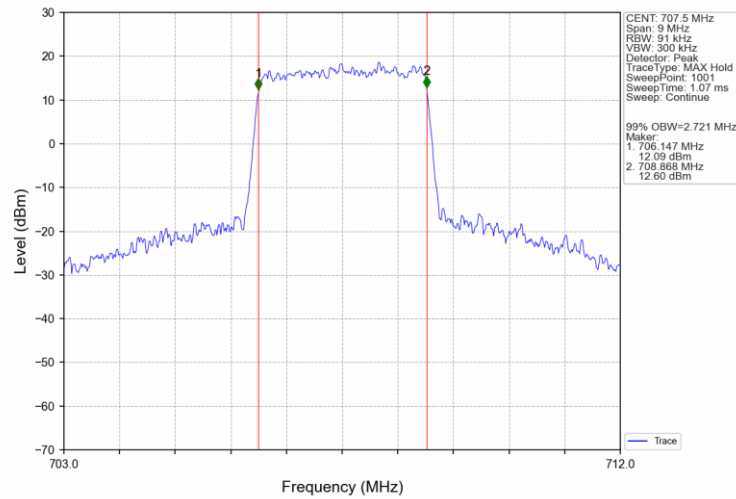
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



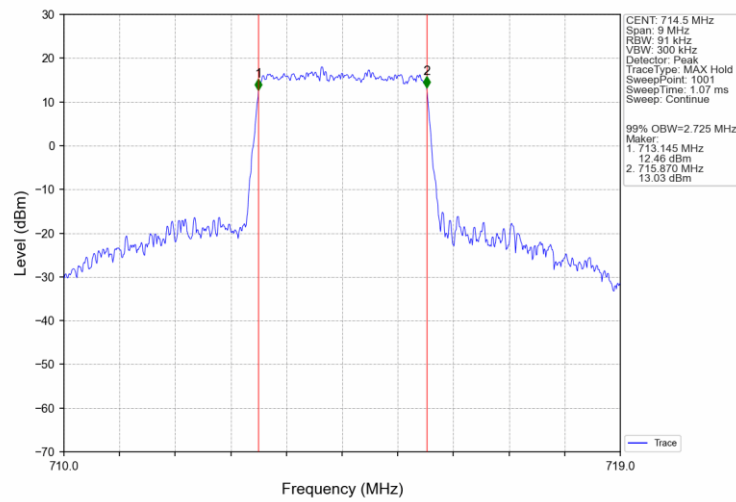
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



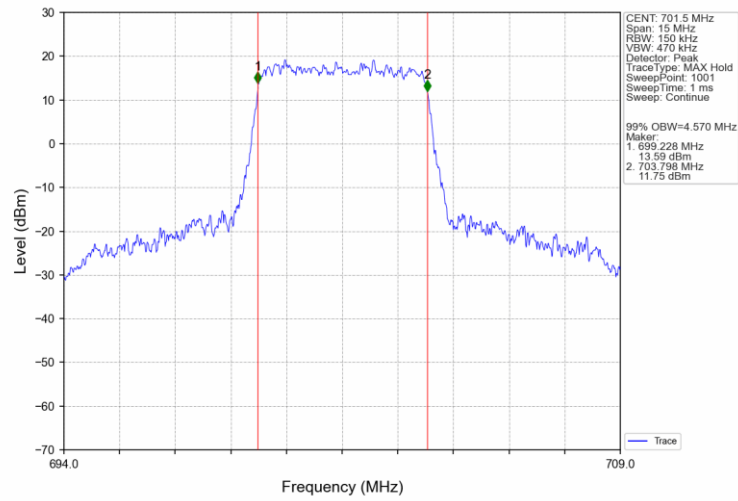
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



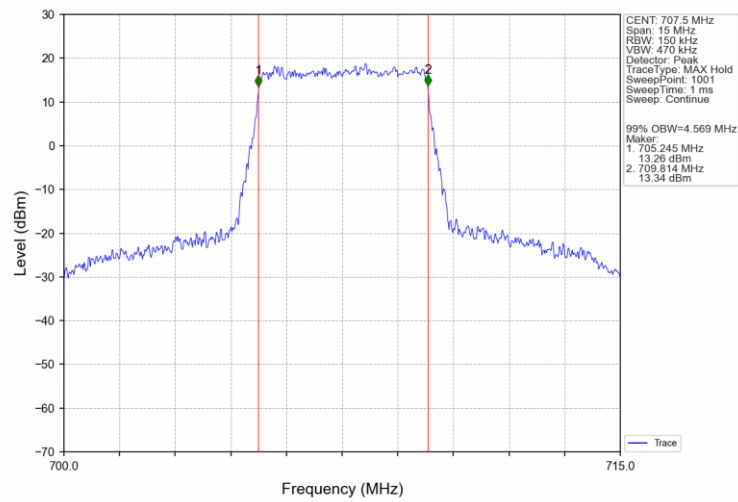
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



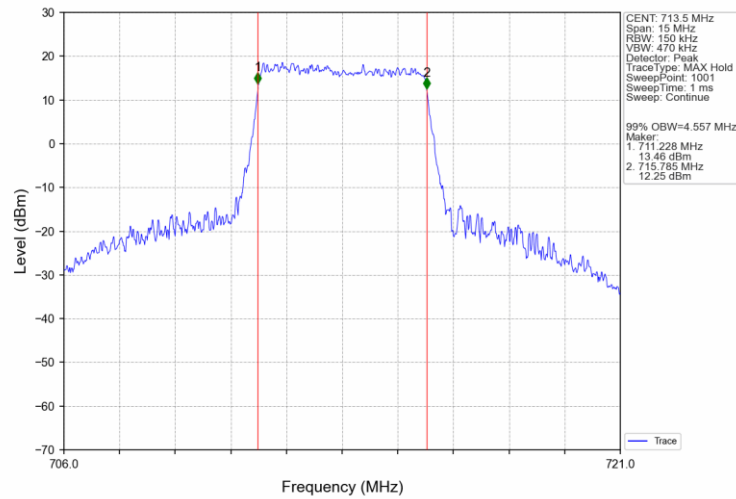
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



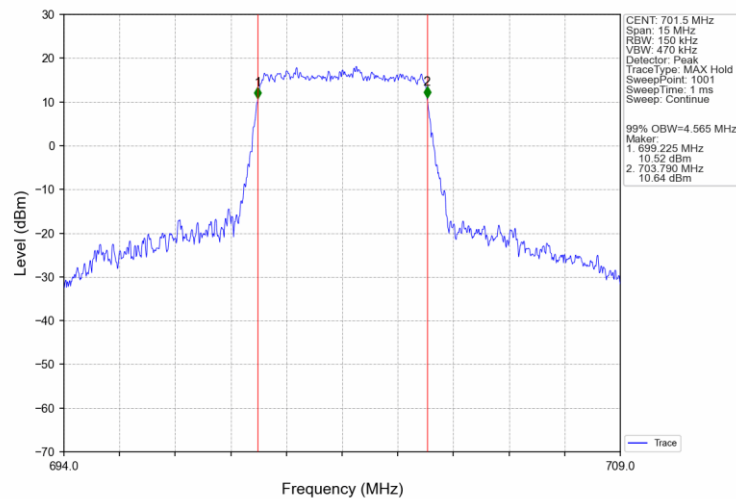
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



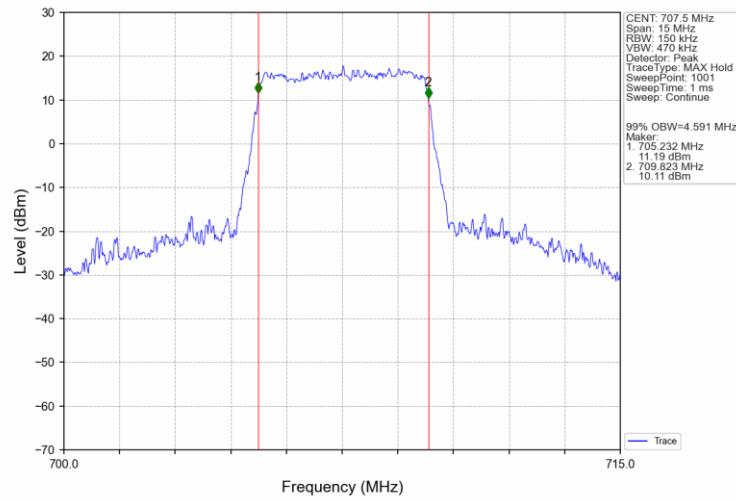
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



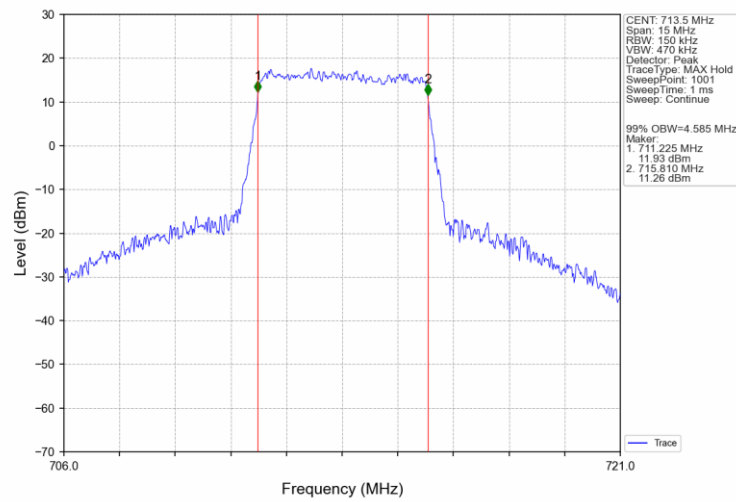
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



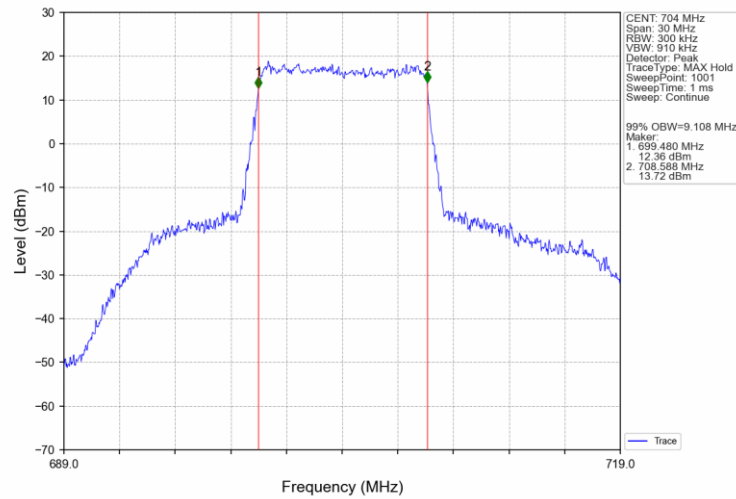
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



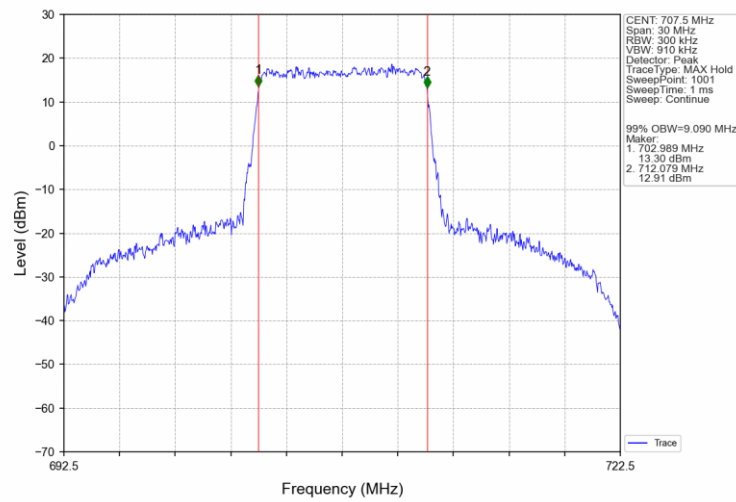
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



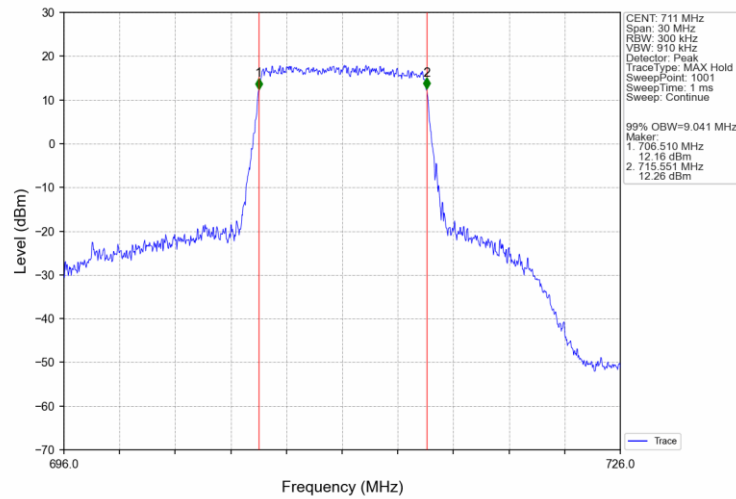
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



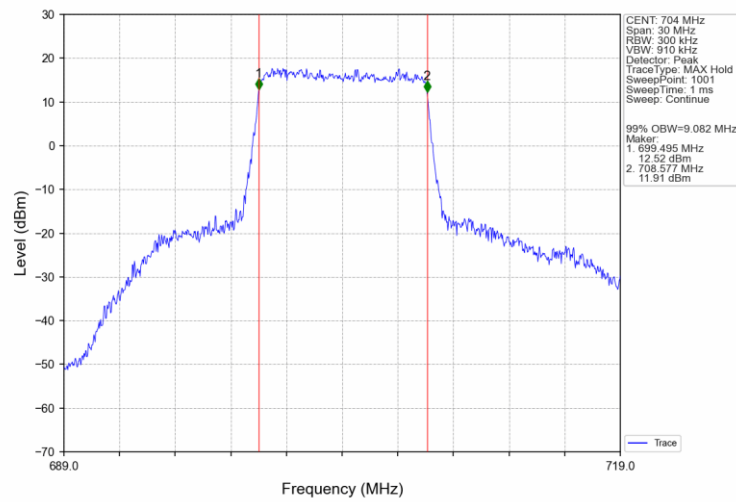
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



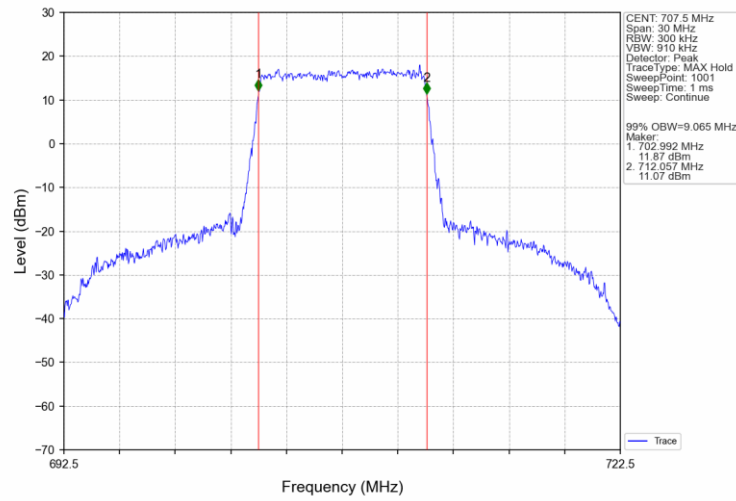
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



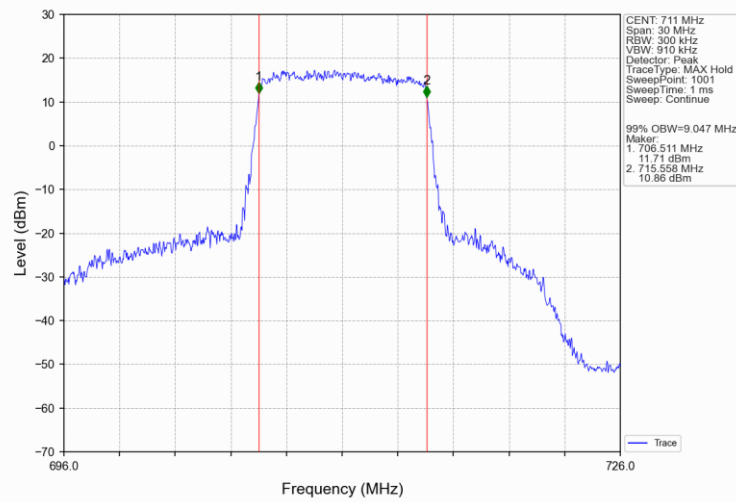
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

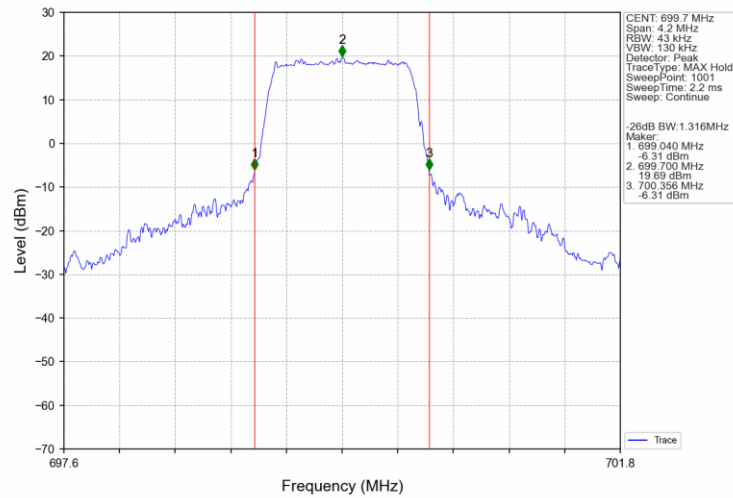


Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

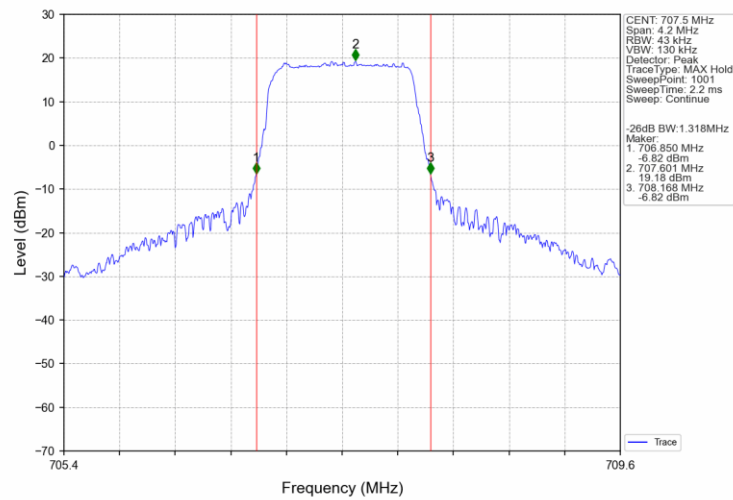


4.2.2 Band12_XDB

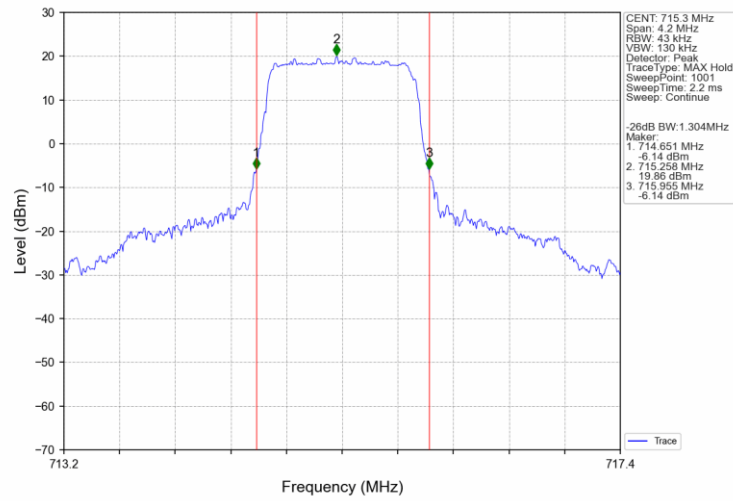
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



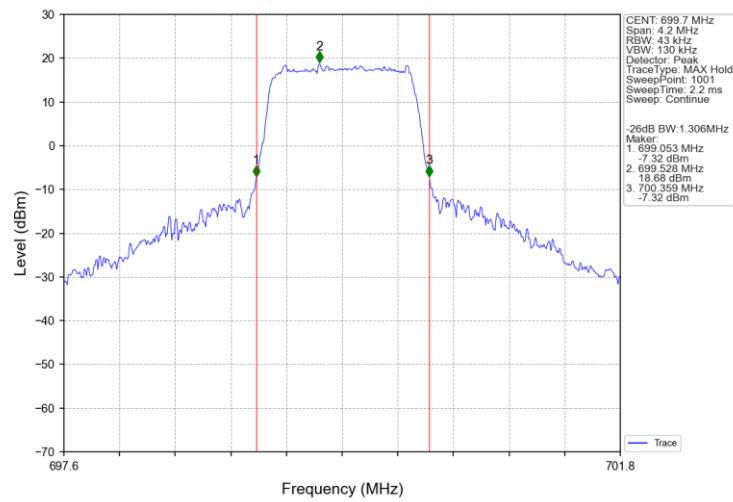
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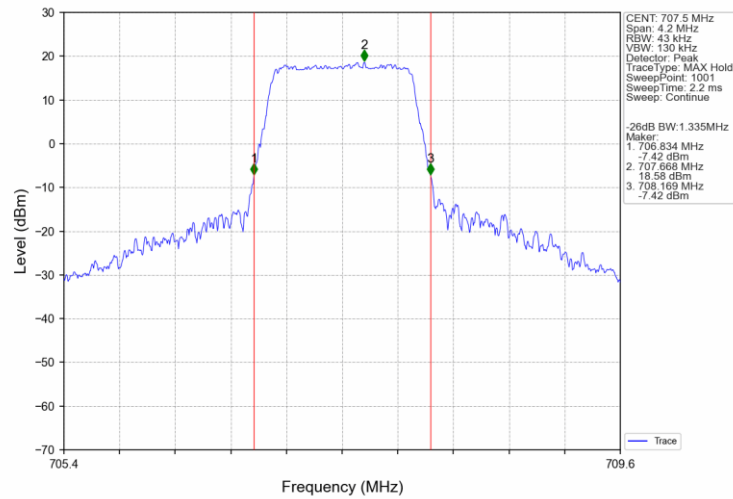
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



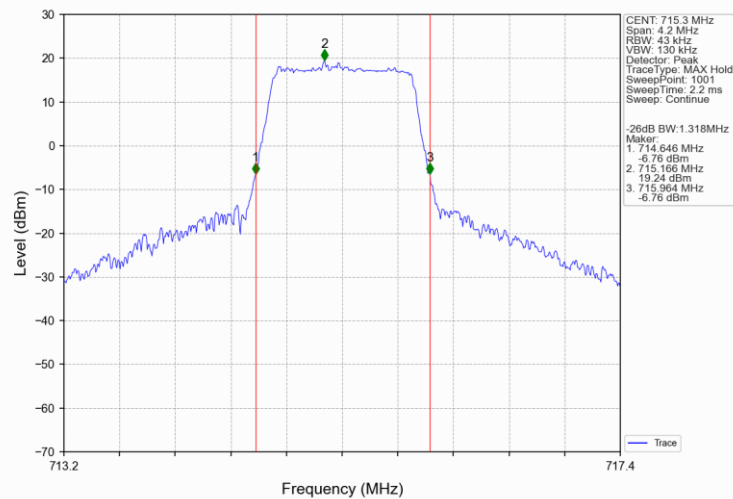
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



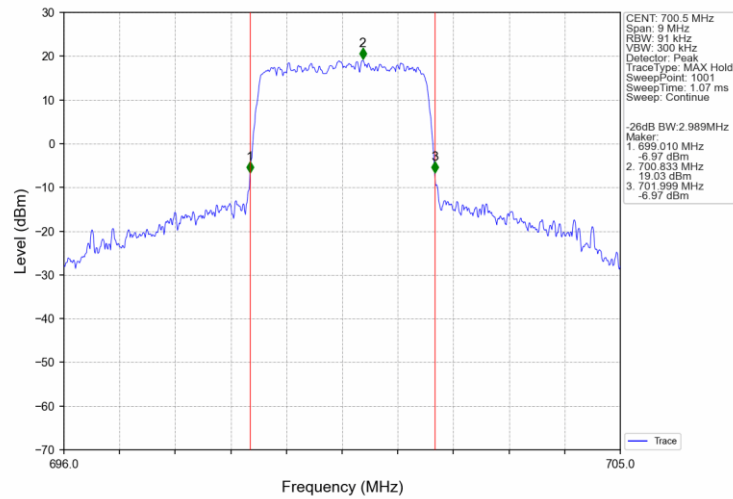
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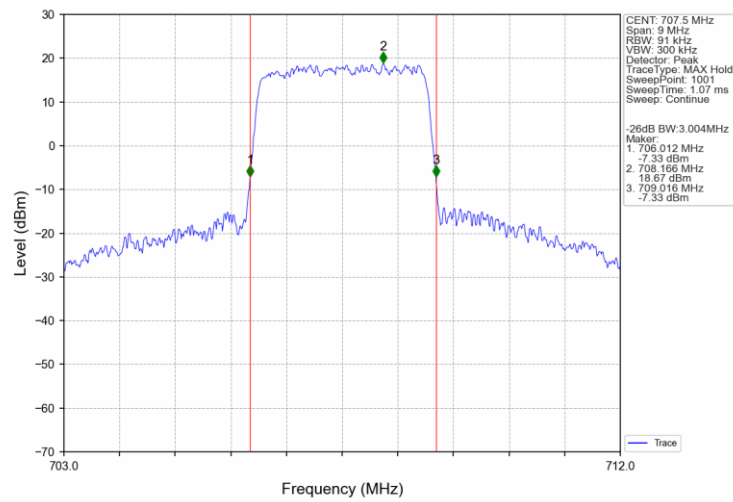
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



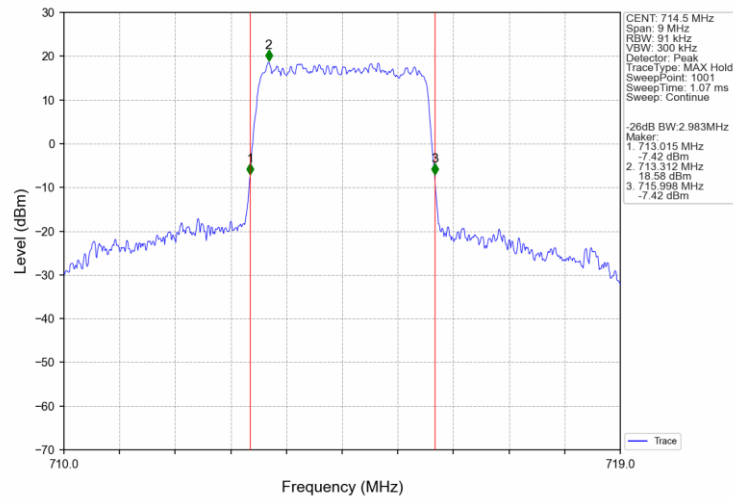
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



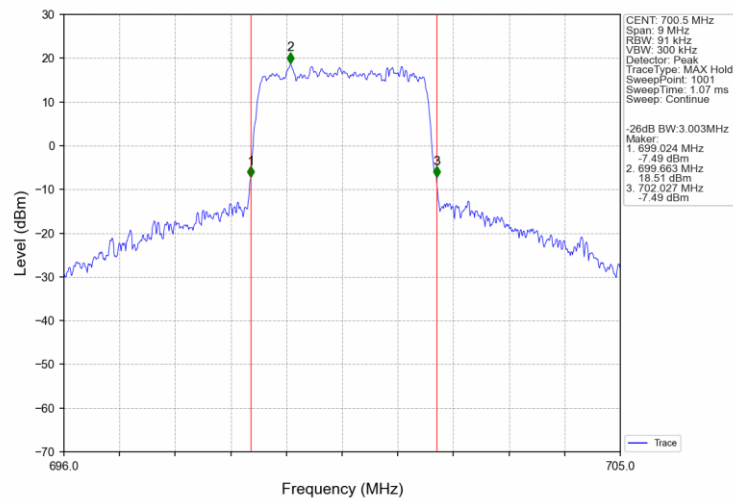
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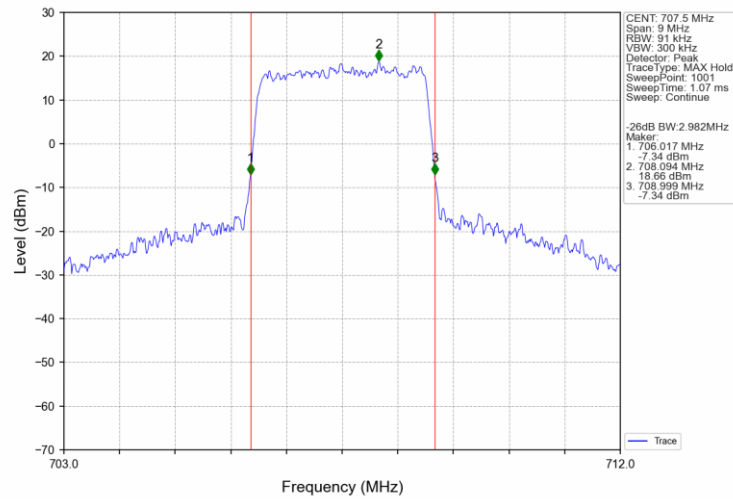
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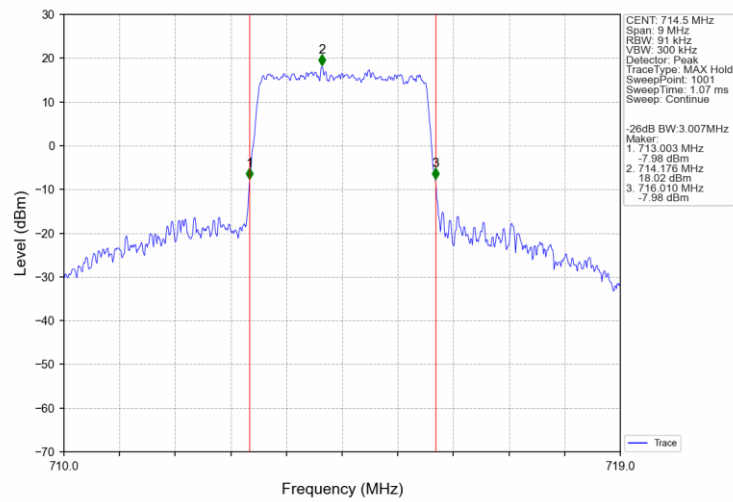
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



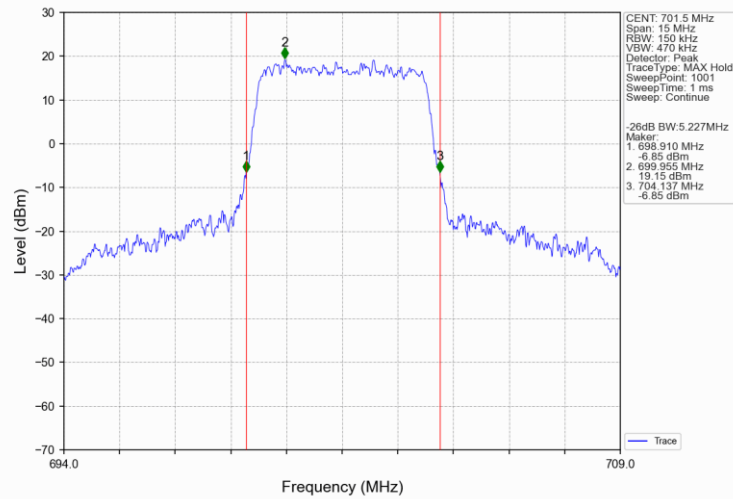
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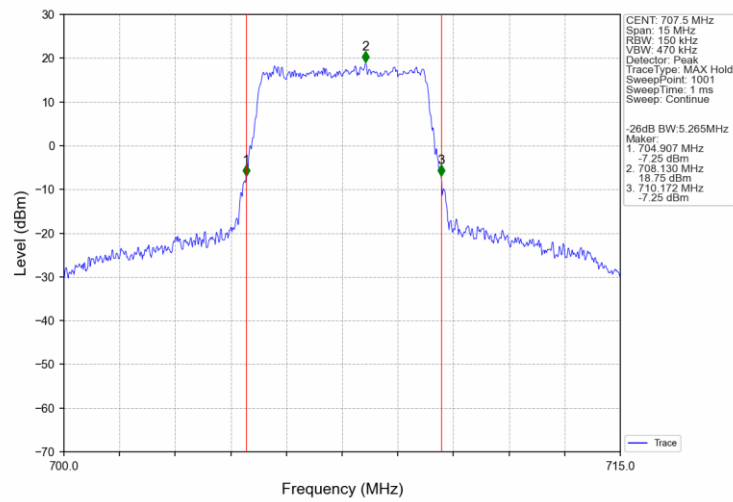
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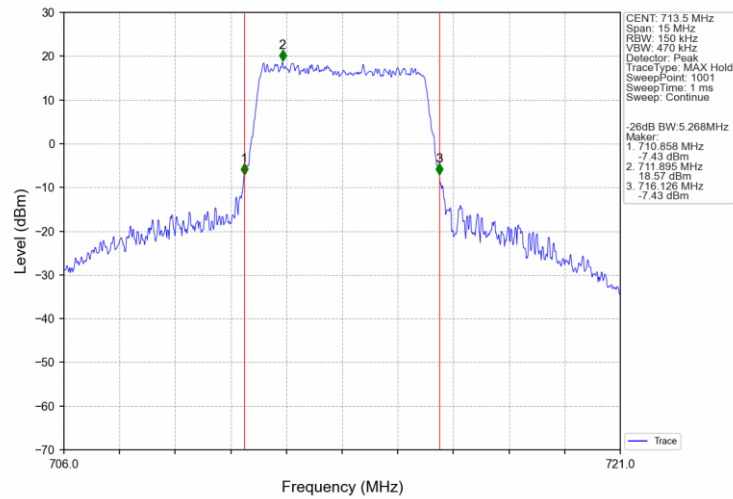
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



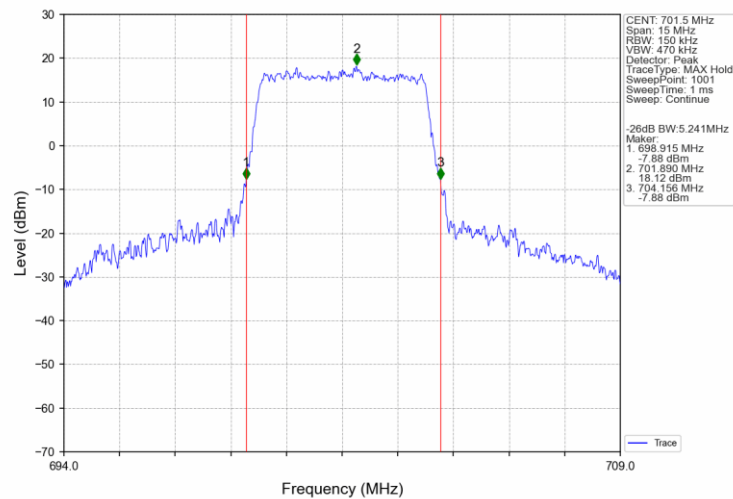
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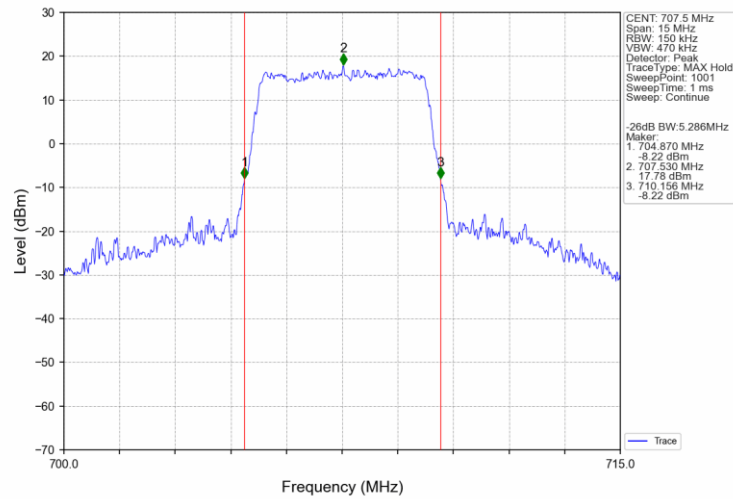
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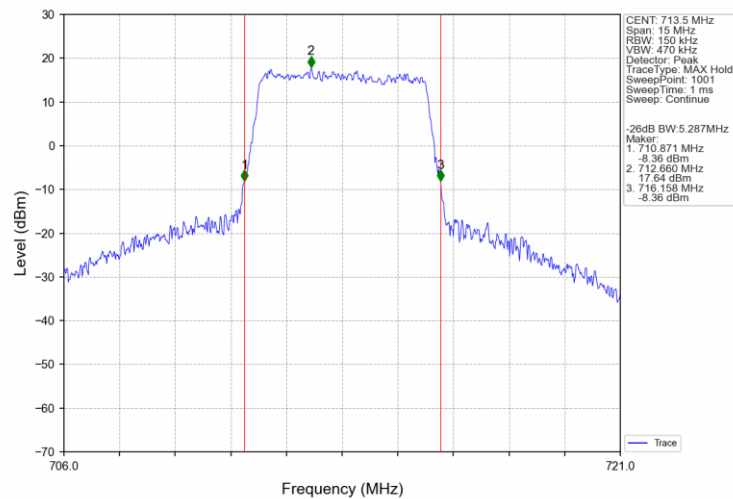
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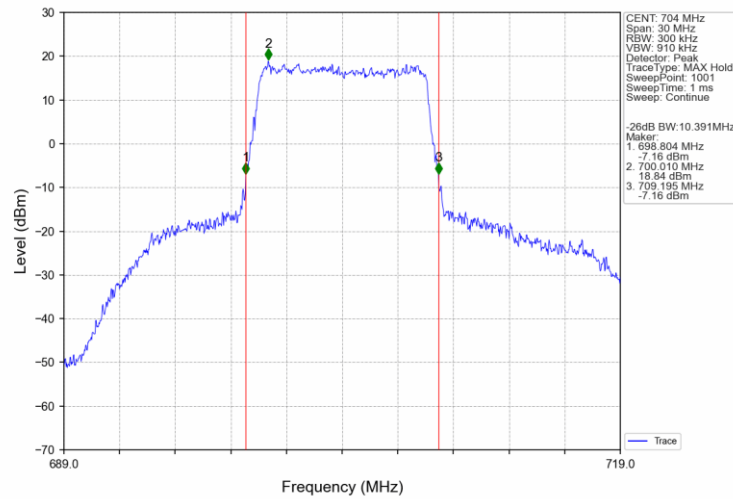
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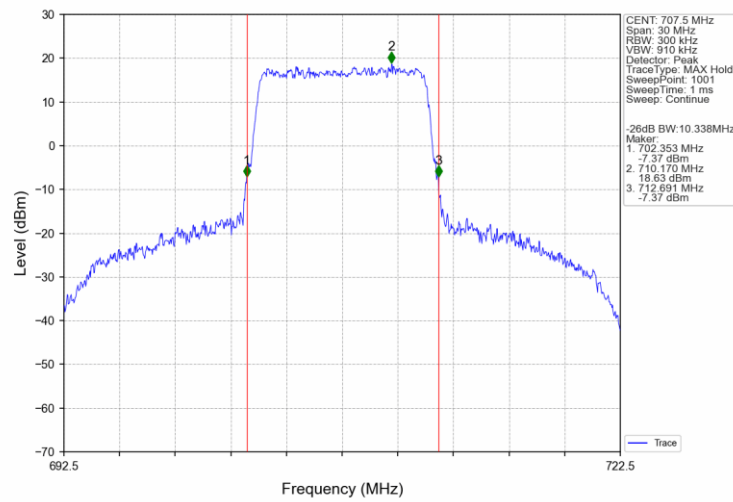
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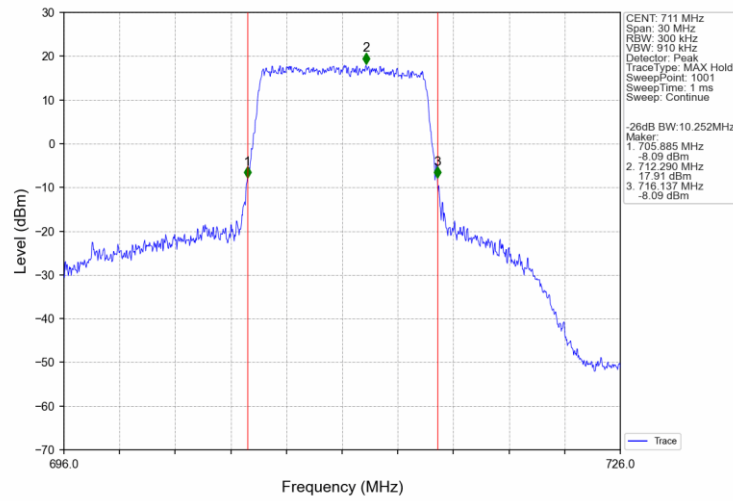
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



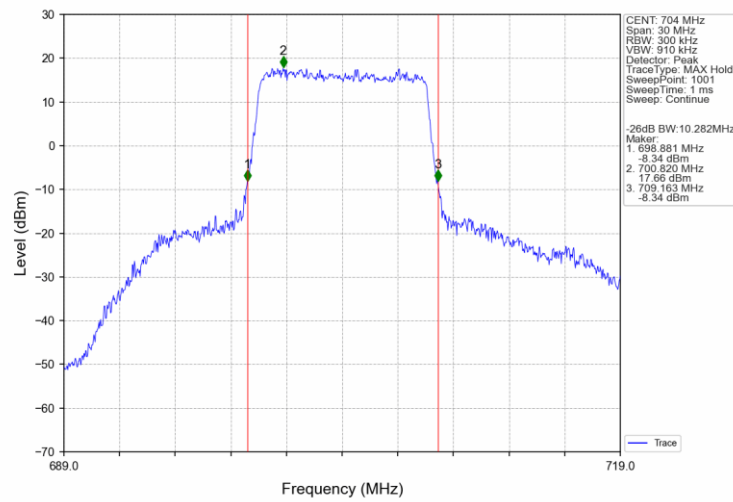
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



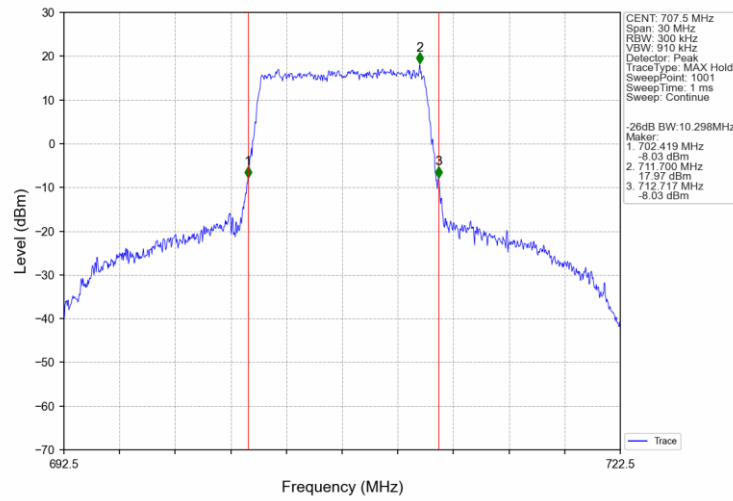
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



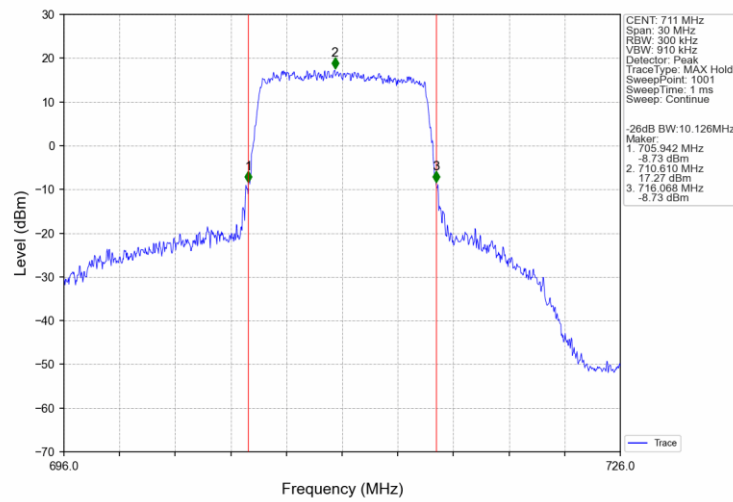
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.23	<=13	Pass
	707.5	6	0	4.72	<=13	Pass
	715.3	6	0	4.58	<=13	Pass
16QAM	699.7	6	0	5.05	<=13	Pass
	707.5	6	0	5.56	<=13	Pass
	715.3	6	0	5.39	<=13	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	4.56	<=13	Pass
	707.5	15	0	4.91	<=13	Pass
	714.5	15	0	5.11	<=13	Pass
16QAM	700.5	15	0	5.35	<=13	Pass
	707.5	15	0	5.95	<=13	Pass
	714.5	15	0	5.95	<=13	Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.26	<=13	Pass
	707.5	25	0	5.40	<=13	Pass
	713.5	25	0	5.31	<=13	Pass
16QAM	701.5	25	0	5.97	<=13	Pass
	707.5	25	0	6.07	<=13	Pass
	713.5	25	0	6.04	<=13	Pass

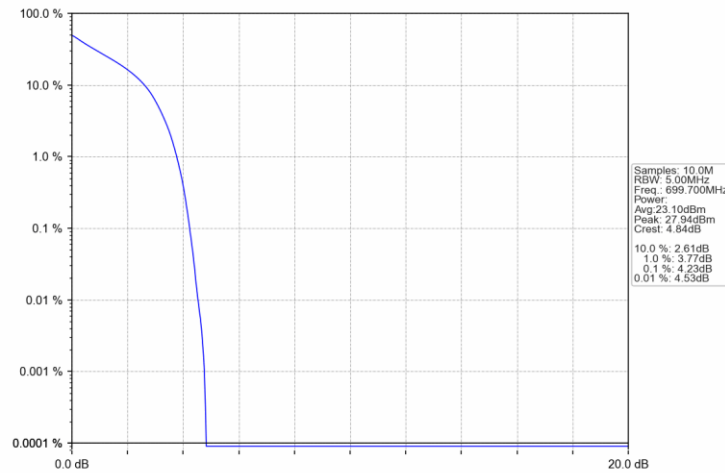
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.32	<=13	Pass
	707.5	50	0	5.34	<=13	Pass
	711	50	0	5.25	<=13	Pass
16QAM	704	50	0	6.10	<=13	Pass
	707.5	50	0	6.08	<=13	Pass
	711	50	0	6.05	<=13	Pass

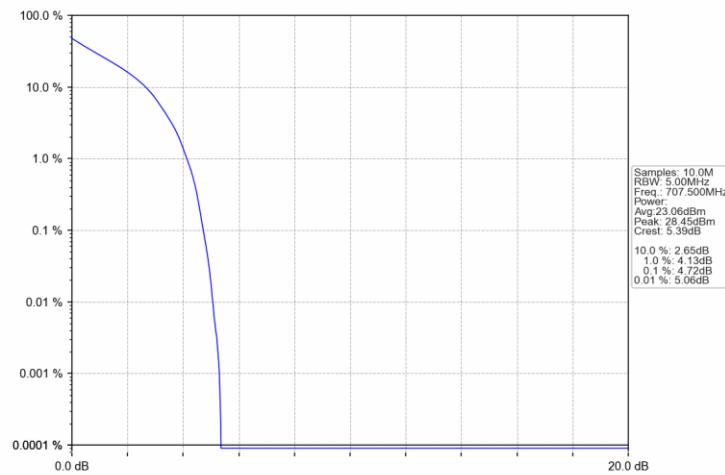
5.2 Test Graph

5.2.1 B12_1.4MHz

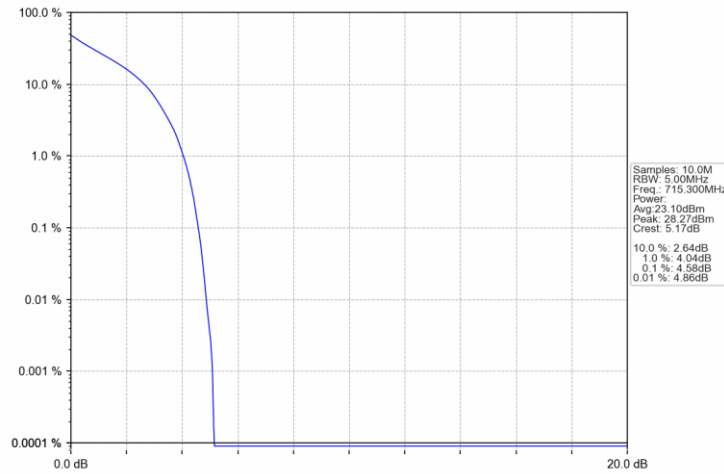
Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV



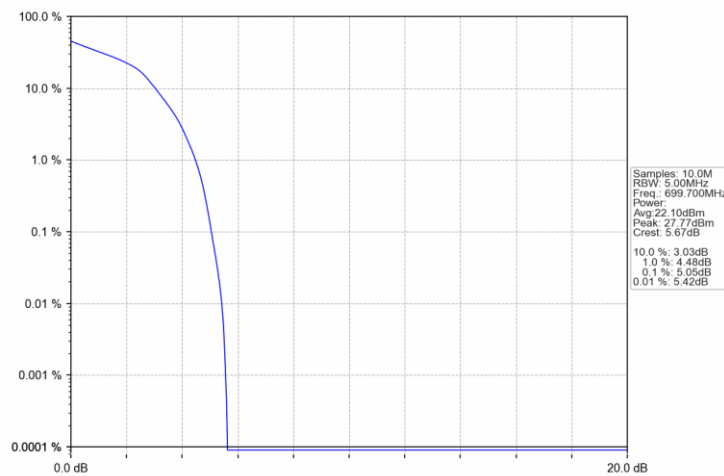
Band12 1.4MHz QPSK MCH 707.5MHz RB 6 0 NTV



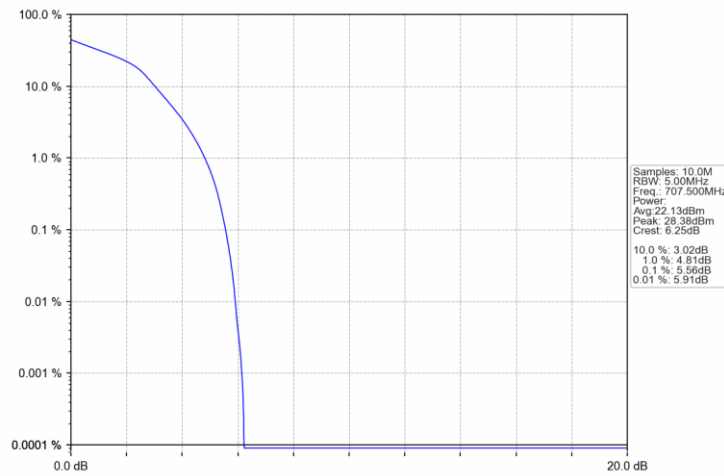
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



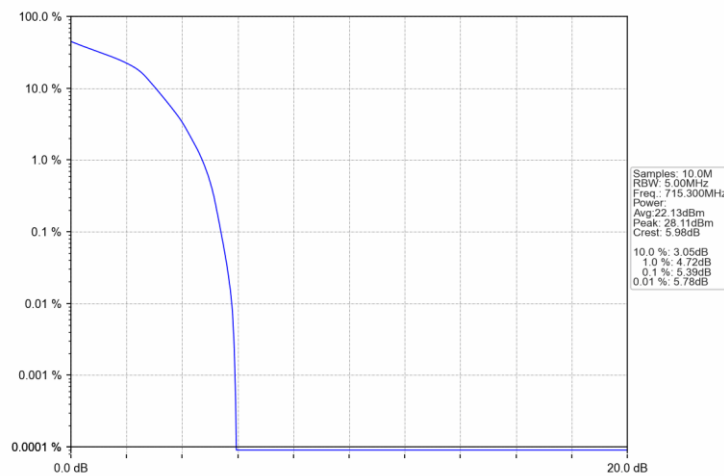
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Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV

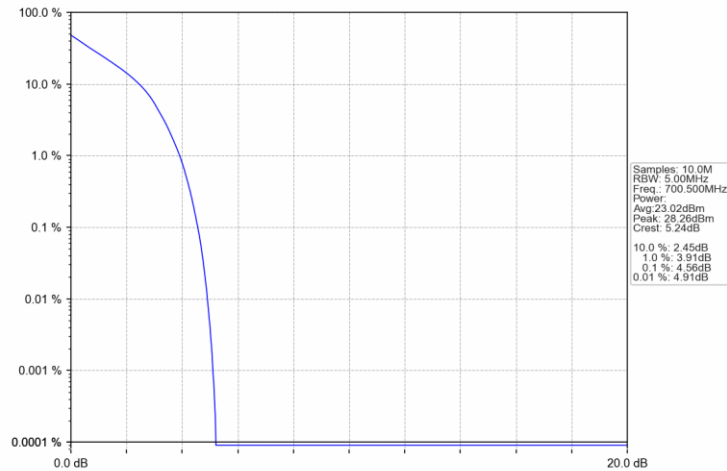


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



5.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

