

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	22.01	-1.22	18.64	<=34.77	Pass
			2	22.06	-1.22	18.69	<=34.77	Pass
			5	22.04	-1.22	18.67	<=34.77	Pass
		3	0	22.05	-1.22	18.68	<=34.77	Pass
			2	22.09	-1.22	18.72	<=34.77	Pass
			3	22.09	-1.22	18.72	<=34.77	Pass
		6	0	21.08	-1.22	17.71	<=34.77	Pass
	707.5	1	0	21.96	-1.22	18.59	<=34.77	Pass
			2	22.04	-1.22	18.67	<=34.77	Pass
			5	21.95	-1.22	18.58	<=34.77	Pass
		3	0	21.70	-1.22	18.33	<=34.77	Pass
			2	21.59	-1.22	18.22	<=34.77	Pass
			3	21.51	-1.22	18.14	<=34.77	Pass
		6	0	20.52	-1.22	17.15	<=34.77	Pass
	715.3	1	0	21.51	-1.22	18.14	<=34.77	Pass
			2	21.61	-1.22	18.24	<=34.77	Pass
			5	21.50	-1.22	18.13	<=34.77	Pass
		3	0	21.51	-1.22	18.14	<=34.77	Pass
			2	21.56	-1.22	18.19	<=34.77	Pass
			3	21.51	-1.22	18.14	<=34.77	Pass
		6	0	20.52	-1.22	17.15	<=34.77	Pass
16QAM	699.7	1	0	20.97	-1.22	17.60	<=34.77	Pass
			2	21.09	-1.22	17.72	<=34.77	Pass
			5	21.05	-1.22	17.68	<=34.77	Pass
		3	0	21.09	-1.22	17.72	<=34.77	Pass
			2	21.11	-1.22	17.74	<=34.77	Pass
			3	20.64	-1.22	17.27	<=34.77	Pass
		6	0	19.74	-1.22	16.37	<=34.77	Pass
	707.5	1	0	20.45	-1.22	17.08	<=34.77	Pass
			2	20.51	-1.22	17.14	<=34.77	Pass
			5	20.45	-1.22	17.08	<=34.77	Pass
		3	0	20.72	-1.22	17.35	<=34.77	Pass
			2	20.75	-1.22	17.38	<=34.77	Pass
			3	20.73	-1.22	17.36	<=34.77	Pass
		6	0	19.55	-1.22	16.18	<=34.77	Pass
	715.3	1	0	20.49	-1.22	17.12	<=34.77	Pass
			2	20.53	-1.22	17.16	<=34.77	Pass
			5	20.45	-1.22	17.08	<=34.77	Pass
		3	0	20.59	-1.22	17.22	<=34.77	Pass
			2	20.56	-1.22	17.19	<=34.77	Pass
			3	20.49	-1.22	17.12	<=34.77	Pass
		6	0	19.48	-1.22	16.11	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV								
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	21.59	-1.22	18.22	<=34.77	Pass
			7	21.74	-1.22	18.37	<=34.77	Pass
			14	21.57	-1.22	18.20	<=34.77	Pass
		8	0	20.54	-1.22	17.17	<=34.77	Pass
			4	20.60	-1.22	17.23	<=34.77	Pass
			7	20.54	-1.22	17.17	<=34.77	Pass
		15	0	20.53	-1.22	17.16	<=34.77	Pass
	707.5	1	0	21.50	-1.22	18.13	<=34.77	Pass
			7	21.68	-1.22	18.31	<=34.77	Pass
			14	21.48	-1.22	18.11	<=34.77	Pass
		8	0	20.52	-1.22	17.15	<=34.77	Pass
			4	20.54	-1.22	17.17	<=34.77	Pass
			7	20.49	-1.22	17.12	<=34.77	Pass
		15	0	20.50	-1.22	17.13	<=34.77	Pass
	714.5	1	0	21.52	-1.22	18.15	<=34.77	Pass
			7	21.67	-1.22	18.30	<=34.77	Pass
			14	21.49	-1.22	18.12	<=34.77	Pass
		8	0	20.53	-1.22	17.16	<=34.77	Pass
			4	20.56	-1.22	17.19	<=34.77	Pass
			7	20.53	-1.22	17.16	<=34.77	Pass
		15	0	20.52	-1.22	17.15	<=34.77	Pass
16QAM	700.5	1	0	20.56	-1.22	17.19	<=34.77	Pass
			7	20.70	-1.22	17.33	<=34.77	Pass
			14	20.54	-1.22	17.17	<=34.77	Pass
		8	0	19.60	-1.22	16.23	<=34.77	Pass
			4	19.67	-1.22	16.30	<=34.77	Pass
			7	19.62	-1.22	16.25	<=34.77	Pass
		15	0	19.61	-1.22	16.24	<=34.77	Pass
	707.5	1	0	20.70	-1.22	17.33	<=34.77	Pass
			7	20.78	-1.22	17.41	<=34.77	Pass
			14	20.65	-1.22	17.28	<=34.77	Pass
		8	0	19.51	-1.22	16.14	<=34.77	Pass
			4	19.55	-1.22	16.18	<=34.77	Pass
			7	19.49	-1.22	16.12	<=34.77	Pass
		15	0	19.49	-1.22	16.12	<=34.77	Pass
	714.5	1	0	21.03	-1.22	17.66	<=34.77	Pass
			7	21.16	-1.22	17.79	<=34.77	Pass
			14	20.92	-1.22	17.55	<=34.77	Pass
		8	0	19.71	-1.22	16.34	<=34.77	Pass
			4	19.73	-1.22	16.36	<=34.77	Pass
			7	19.69	-1.22	16.32	<=34.77	Pass
		15	0	19.61	-1.22	16.24	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	21.49	-1.22	18.12	<=34.77	Pass
			13	21.59	-1.22	18.22	<=34.77	Pass
			24	21.48	-1.22	18.11	<=34.77	Pass
		12	0	20.46	-1.22	17.09	<=34.77	Pass
			6	20.55	-1.22	17.18	<=34.77	Pass
			13	20.53	-1.22	17.16	<=34.77	Pass

16QAM	707.5	25	0	20.50	-1.22	17.13	<=34.77	Pass	
			1	0	21.44	-1.22	18.07	<=34.77	Pass
				13	21.55	-1.22	18.18	<=34.77	Pass
				24	21.44	-1.22	18.07	<=34.77	Pass
		12		0	20.49	-1.22	17.12	<=34.77	Pass
			6	20.53	-1.22	17.16	<=34.77	Pass	
			13	20.49	-1.22	17.12	<=34.77	Pass	
			25	0	20.50	-1.22	17.13	<=34.77	Pass
		713.5	1	0	21.45	-1.22	18.08	<=34.77	Pass
				13	21.56	-1.22	18.19	<=34.77	Pass
				24	21.44	-1.22	18.07	<=34.77	Pass
				12	0	20.47	-1.22	17.10	<=34.77
	6		20.54		-1.22	17.17	<=34.77	Pass	
	13		20.44		-1.22	17.07	<=34.77	Pass	
	25		0		20.48	-1.22	17.11	<=34.77	Pass
	701.5		1	0	20.58	-1.22	17.21	<=34.77	Pass
13		20.66		-1.22	17.29	<=34.77	Pass		
24		20.57		-1.22	17.20	<=34.77	Pass		
12		0		19.52	-1.22	16.15	<=34.77	Pass	
		6		19.63	-1.22	16.26	<=34.77	Pass	
		13		19.56	-1.22	16.19	<=34.77	Pass	
		25		0	19.55	-1.22	16.18	<=34.77	Pass
707.5		1		0	20.66	-1.22	17.29	<=34.77	Pass
			13	20.78	-1.22	17.41	<=34.77	Pass	
			24	20.63	-1.22	17.26	<=34.77	Pass	
			12	0	19.59	-1.22	16.22	<=34.77	Pass
		6		19.62	-1.22	16.25	<=34.77	Pass	
		13		19.58	-1.22	16.21	<=34.77	Pass	
		25		0	19.52	-1.22	16.15	<=34.77	Pass
		713.5	1	0	20.27	-1.22	16.90	<=34.77	Pass
13				20.38	-1.22	17.01	<=34.77	Pass	
24				20.26	-1.22	16.89	<=34.77	Pass	
12				0	19.52	-1.22	16.15	<=34.77	Pass
			6	19.59	-1.22	16.22	<=34.77	Pass	
			13	19.48	-1.22	16.11	<=34.77	Pass	
			25	0	19.55	-1.22	16.18	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	21.53	-1.22	18.16	<=34.77	Pass
			25	21.60	-1.22	18.23	<=34.77	Pass
			49	21.51	-1.22	18.14	<=34.77	Pass
		25	0	20.50	-1.22	17.13	<=34.77	Pass
			13	20.53	-1.22	17.16	<=34.77	Pass
			25	20.49	-1.22	17.12	<=34.77	Pass
		50	0	20.51	-1.22	17.14	<=34.77	Pass
			0	21.48	-1.22	18.11	<=34.77	Pass
	707.5	1	25	21.62	-1.22	18.25	<=34.77	Pass
			49	21.50	-1.22	18.13	<=34.77	Pass
			0	20.53	-1.22	17.16	<=34.77	Pass
		25	13	20.54	-1.22	17.17	<=34.77	Pass
			25	20.50	-1.22	17.13	<=34.77	Pass
			0	20.53	-1.22	17.16	<=34.77	Pass
		50	0	20.53	-1.22	17.16	<=34.77	Pass

16QAM	711	1	0	21.47	-1.22	18.10	<=34.77	Pass
			25	21.62	-1.22	18.25	<=34.77	Pass
			49	21.50	-1.22	18.13	<=34.77	Pass
		25	0	20.53	-1.22	17.16	<=34.77	Pass
			13	20.54	-1.22	17.17	<=34.77	Pass
			25	20.42	-1.22	17.05	<=34.77	Pass
		50	0	20.48	-1.22	17.11	<=34.77	Pass
	704	1	0	20.49	-1.22	17.12	<=34.77	Pass
			25	20.65	-1.22	17.28	<=34.77	Pass
			49	20.46	-1.22	17.09	<=34.77	Pass
		25	0	19.60	-1.22	16.23	<=34.77	Pass
			13	19.63	-1.22	16.26	<=34.77	Pass
			25	19.62	-1.22	16.25	<=34.77	Pass
		50	0	19.54	-1.22	16.17	<=34.77	Pass
	707.5	1	0	20.60	-1.22	17.23	<=34.77	Pass
			25	20.76	-1.22	17.39	<=34.77	Pass
			49	20.63	-1.22	17.26	<=34.77	Pass
		25	0	19.58	-1.22	16.21	<=34.77	Pass
			13	19.58	-1.22	16.21	<=34.77	Pass
			25	19.55	-1.22	16.18	<=34.77	Pass
		50	0	19.54	-1.22	16.17	<=34.77	Pass
	711	1	0	20.97	-1.22	17.60	<=34.77	Pass
			25	21.18	-1.22	17.81	<=34.77	Pass
			49	20.95	-1.22	17.58	<=34.77	Pass
		25	0	19.60	-1.22	16.23	<=34.77	Pass
			13	19.61	-1.22	16.24	<=34.77	Pass
			25	19.51	-1.22	16.14	<=34.77	Pass
		50	0	19.53	-1.22	16.16	<=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	-9.441	-0.0135	-2.5 to 2.5	Pass
					3.85	-5.221	-0.0075	-2.5 to 2.5	Pass
					4.43	-6.137	-0.0088	-2.5 to 2.5	Pass
				-30	3.85	-9.041	-0.0129	-2.5 to 2.5	Pass
					3.85	-3.963	-0.0057	-2.5 to 2.5	Pass
					3.85	-4.520	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-9.370	-0.0134	-2.5 to 2.5	Pass
					3.85	-6.852	-0.0098	-2.5 to 2.5	Pass
					3.85	-9.656	-0.0138	-2.5 to 2.5	Pass
				40	3.85	-5.908	-0.0084	-2.5 to 2.5	Pass
					3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
					3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-12.918	-0.0183	-2.5 to 2.5	Pass
					3.85	-11.230	-0.0159	-2.5 to 2.5	Pass
					4.43	-5.193	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass
					3.85	-6.638	-0.0094	-2.5 to 2.5	Pass
					3.85	-9.756	-0.0138	-2.5 to 2.5	Pass

16QAM	715.3	6	0	0	3.85	-7.610	-0.0108	-2.5 to 2.5	Pass
				10	3.85	-2.460	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-3.934	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-3.333	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-9.012	-0.0127	-2.5 to 2.5	Pass
	699.7	6	0	20	3.27	-2.017	-0.0028	-2.5 to 2.5	Pass
					3.85	1.330	0.0019	-2.5 to 2.5	Pass
					4.43	-7.195	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-6.781	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-8.411	-0.0118	-2.5 to 2.5	Pass
				-10	3.85	-6.251	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-12.317	-0.0172	-2.5 to 2.5	Pass
				10	3.85	-9.556	-0.0134	-2.5 to 2.5	Pass
				30	3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-4.034	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-7.696	-0.0108	-2.5 to 2.5	Pass
				20	3.27	-10.886	-0.0156	-2.5 to 2.5	Pass
					3.85	-5.107	-0.0073	-2.5 to 2.5	Pass
					4.43	-8.626	-0.0123	-2.5 to 2.5	Pass
				-30	3.85	-7.739	-0.0111	-2.5 to 2.5	Pass
				-20	3.85	-10.958	-0.0157	-2.5 to 2.5	Pass
				-10	3.85	-3.433	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-3.262	-0.0047	-2.5 to 2.5	Pass
				10	3.85	-11.058	-0.0158	-2.5 to 2.5	Pass
				30	3.85	-8.240	-0.0118	-2.5 to 2.5	Pass
				40	3.85	-11.330	-0.0162	-2.5 to 2.5	Pass
				50	3.85	-10.529	-0.0150	-2.5 to 2.5	Pass
16QAM	707.5	6	0	20	3.27	-1.030	-0.0015	-2.5 to 2.5	Pass
					3.85	-12.474	-0.0176	-2.5 to 2.5	Pass
					4.43	-7.753	-0.0110	-2.5 to 2.5	Pass
				-30	3.85	-8.826	-0.0125	-2.5 to 2.5	Pass
				-20	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-1.688	-0.0024	-2.5 to 2.5	Pass
				0	3.85	-2.232	-0.0032	-2.5 to 2.5	Pass
				10	3.85	1.159	0.0016	-2.5 to 2.5	Pass
				30	3.85	-2.818	-0.0040	-2.5 to 2.5	Pass
				40	3.85	-4.807	-0.0068	-2.5 to 2.5	Pass
				50	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				20	3.27	-1.659	-0.0023	-2.5 to 2.5	Pass
					3.85	-8.883	-0.0124	-2.5 to 2.5	Pass
					4.43	-8.955	-0.0125	-2.5 to 2.5	Pass
				-30	3.85	-3.376	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-2.418	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-3.161	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-9.027	-0.0126	-2.5 to 2.5	Pass
				10	3.85	-4.935	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-9.155	-0.0128	-2.5 to 2.5	Pass
				50	3.85	-1.488	-0.0021	-2.5 to 2.5	Pass
16QAM	715.3	6	0	20	3.27	-1.659	-0.0023	-2.5 to 2.5	Pass
					3.85	-8.883	-0.0124	-2.5 to 2.5	Pass
					4.43	-8.955	-0.0125	-2.5 to 2.5	Pass
				-30	3.85	-3.376	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-2.418	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-3.161	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-9.027	-0.0126	-2.5 to 2.5	Pass
				10	3.85	-4.935	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-9.155	-0.0128	-2.5 to 2.5	Pass
				50	3.85	-1.488	-0.0021	-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	-7.124	-0.0102	-2.5 to 2.5	Pass
					3.85	-6.824	-0.0097	-2.5 to 2.5	Pass

16QAM	707.5	15	0		4.43	-5.965	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-5.250	-0.0075	-2.5 to 2.5	Pass
				-20	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	-6.051	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-11.115	-0.0159	-2.5 to 2.5	Pass
				10	3.85	-7.253	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-9.398	-0.0134	-2.5 to 2.5	Pass
				40	3.85	-6.022	-0.0086	-2.5 to 2.5	Pass
				50	3.85	-8.411	-0.0120	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-6.123	-0.0087	-2.5 to 2.5	Pass
				20	3.85	-7.124	-0.0101	-2.5 to 2.5	Pass
					4.43	-9.170	-0.0130	-2.5 to 2.5	Pass
				-30	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-2.303	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-9.499	-0.0134	-2.5 to 2.5	Pass
				0	3.85	-6.995	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
				30	3.85	-8.898	-0.0126	-2.5 to 2.5	Pass
				40	3.85	-10.300	-0.0146	-2.5 to 2.5	Pass
				50	3.85	-7.181	-0.0101	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.186	-0.0003	-2.5 to 2.5	Pass
				20	3.85	-9.198	-0.0129	-2.5 to 2.5	Pass
					4.43	-4.363	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	-6.180	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-9.727	-0.0136	-2.5 to 2.5	Pass
				-10	3.85	-10.443	-0.0146	-2.5 to 2.5	Pass
				0	3.85	-9.685	-0.0136	-2.5 to 2.5	Pass
				10	3.85	-8.469	-0.0119	-2.5 to 2.5	Pass
				30	3.85	-5.164	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-8.025	-0.0112	-2.5 to 2.5	Pass
				50	3.85	-3.862	-0.0054	-2.5 to 2.5	Pass
	700.5	15	0	20	3.27	-4.492	-0.0064	-2.5 to 2.5	Pass
				20	3.85	-5.693	-0.0081	-2.5 to 2.5	Pass
					4.43	-8.240	-0.0118	-2.5 to 2.5	Pass
				-30	3.85	-11.086	-0.0158	-2.5 to 2.5	Pass
				-20	3.85	-7.911	-0.0113	-2.5 to 2.5	Pass
				-10	3.85	-4.764	-0.0068	-2.5 to 2.5	Pass
				0	3.85	-10.500	-0.0150	-2.5 to 2.5	Pass
				10	3.85	-12.159	-0.0174	-2.5 to 2.5	Pass
				30	3.85	-10.929	-0.0156	-2.5 to 2.5	Pass
				40	3.85	-8.712	-0.0124	-2.5 to 2.5	Pass
				50	3.85	-8.454	-0.0121	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-9.227	-0.0130	-2.5 to 2.5	Pass
				20	3.85	-4.063	-0.0057	-2.5 to 2.5	Pass
					4.43	-8.368	-0.0118	-2.5 to 2.5	Pass
				-30	3.85	-10.300	-0.0146	-2.5 to 2.5	Pass
				-20	3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
				-10	3.85	-8.140	-0.0115	-2.5 to 2.5	Pass
				0	3.85	-6.881	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-3.605	-0.0051	-2.5 to 2.5	Pass
				30	3.85	-1.860	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-8.512	-0.0120	-2.5 to 2.5	Pass
				50	3.85	-3.319	-0.0047	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-4.635	-0.0065	-2.5 to 2.5	Pass
				20	3.85	-9.456	-0.0132	-2.5 to 2.5	Pass
					4.43	-3.805	-0.0053	-2.5 to 2.5	Pass
				-30	3.85	-3.662	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-1.388	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-3.691	-0.0052	-2.5 to 2.5	Pass

				0	3.85	-6.566	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-5.608	-0.0078	-2.5 to 2.5	Pass
				30	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-6.237	-0.0087	-2.5 to 2.5	Pass
				50	3.85	-7.067	-0.0099	-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	-3.319	-0.0047	-2.5 to 2.5	Pass
					3.85	-3.576	-0.0051	-2.5 to 2.5	Pass
					4.43	-7.138	-0.0102	-2.5 to 2.5	Pass
				-30	3.85	-10.958	-0.0156	-2.5 to 2.5	Pass
				-20	3.85	-11.187	-0.0159	-2.5 to 2.5	Pass
				-10	3.85	-6.752	-0.0096	-2.5 to 2.5	Pass
				0	3.85	-7.482	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-5.994	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-6.866	-0.0098	-2.5 to 2.5	Pass
				40	3.85	-6.967	-0.0099	-2.5 to 2.5	Pass
				50	3.85	-7.439	-0.0106	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-4.520	-0.0064	-2.5 to 2.5	Pass
					3.85	-2.604	-0.0037	-2.5 to 2.5	Pass
					4.43	-0.901	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-8.612	-0.0122	-2.5 to 2.5	Pass
				-20	3.85	-1.502	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	1.044	0.0015	-2.5 to 2.5	Pass
				0	3.85	-1.702	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-3.548	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-5.393	-0.0076	-2.5 to 2.5	Pass
				40	3.85	2.346	0.0033	-2.5 to 2.5	Pass
				50	3.85	1.216	0.0017	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-6.652	-0.0093	-2.5 to 2.5	Pass
					3.85	-4.964	-0.0070	-2.5 to 2.5	Pass
					4.43	-1.574	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-3.061	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	3.304	0.0046	-2.5 to 2.5	Pass
				-10	3.85	-13.604	-0.0191	-2.5 to 2.5	Pass
				0	3.85	-5.422	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-6.838	-0.0096	-2.5 to 2.5	Pass
				30	3.85	-8.154	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-11.144	-0.0156	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-4.249	-0.0061	-2.5 to 2.5	Pass
					3.85	-9.642	-0.0137	-2.5 to 2.5	Pass
					4.43	-8.483	-0.0121	-2.5 to 2.5	Pass
				-30	3.85	-6.094	-0.0087	-2.5 to 2.5	Pass
				-20	3.85	-5.307	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-5.422	-0.0077	-2.5 to 2.5	Pass
				0	3.85	-11.573	-0.0165	-2.5 to 2.5	Pass
				10	3.85	-3.133	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-8.039	-0.0115	-2.5 to 2.5	Pass
				40	3.85	-10.171	-0.0145	-2.5 to 2.5	Pass
				50	3.85	-9.098	-0.0130	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-1.030	-0.0015	-2.5 to 2.5	Pass
					3.85	-7.596	-0.0107	-2.5 to 2.5	Pass

					4.43	-5.422	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-7.281	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-1.831	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-3.462	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-2.003	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-2.704	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-5.679	-0.0080	-2.5 to 2.5	Pass
					3.85	-6.652	-0.0093	-2.5 to 2.5	Pass
					4.43	-7.925	-0.0111	-2.5 to 2.5	Pass
				-30	3.85	-7.696	-0.0108	-2.5 to 2.5	Pass
				-20	3.85	-7.024	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-7.353	-0.0103	-2.5 to 2.5	Pass
				0	3.85	-10.529	-0.0148	-2.5 to 2.5	Pass
				10	3.85	-5.879	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-7.596	-0.0106	-2.5 to 2.5	Pass
				40	3.85	-2.604	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-7.124	-0.0100	-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	-7.181	-0.0102	-2.5 to 2.5	Pass
					3.85	-7.281	-0.0103	-2.5 to 2.5	Pass
					4.43	-6.108	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-6.895	-0.0098	-2.5 to 2.5	Pass
				-20	3.85	-7.510	-0.0107	-2.5 to 2.5	Pass
				-10	3.85	-8.154	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-5.021	-0.0071	-2.5 to 2.5	Pass
				10	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-7.710	-0.0110	-2.5 to 2.5	Pass
				40	3.85	-4.907	-0.0070	-2.5 to 2.5	Pass
				50	3.85	-4.592	-0.0065	-2.5 to 2.5	Pass
				20	3.27	-2.403	-0.0034	-2.5 to 2.5	Pass
					3.85	-4.792	-0.0068	-2.5 to 2.5	Pass
					4.43	-6.580	-0.0093	-2.5 to 2.5	Pass
	707.5	50	0	-30	3.85	-6.709	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-6.695	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-6.795	-0.0096	-2.5 to 2.5	Pass
				0	3.85	-4.435	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-6.781	-0.0096	-2.5 to 2.5	Pass
				30	3.85	-6.552	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-10.071	-0.0142	-2.5 to 2.5	Pass
				50	3.85	-7.854	-0.0111	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-4.992	-0.0070	-2.5 to 2.5	Pass
					3.85	-5.693	-0.0080	-2.5 to 2.5	Pass
					4.43	-7.954	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-2.232	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-9.327	-0.0131	-2.5 to 2.5	Pass
				-10	3.85	-7.753	-0.0109	-2.5 to 2.5	Pass
				0	3.85	-9.284	-0.0131	-2.5 to 2.5	Pass
				10	3.85	-8.712	-0.0123	-2.5 to 2.5	Pass
				30	3.85	-7.739	-0.0109	-2.5 to 2.5	Pass

16QAM	704	50	0	40	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
				50	3.85	-6.280	-0.0088	-2.5 to 2.5	Pass
				20	3.27	-4.449	-0.0063	-2.5 to 2.5	Pass
					3.85	-7.224	-0.0103	-2.5 to 2.5	Pass
					4.43	-4.706	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-5.708	-0.0081	-2.5 to 2.5	Pass
				-20	3.85	-6.695	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-6.166	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-6.251	-0.0089	-2.5 to 2.5	Pass
				10	3.85	-8.812	-0.0125	-2.5 to 2.5	Pass
	707.5	50	0	30	3.85	-10.400	-0.0148	-2.5 to 2.5	Pass
				40	3.85	-7.339	-0.0104	-2.5 to 2.5	Pass
				50	3.85	-6.952	-0.0099	-2.5 to 2.5	Pass
				20	3.27	-3.347	-0.0047	-2.5 to 2.5	Pass
					3.85	-7.825	-0.0111	-2.5 to 2.5	Pass
					4.43	-2.389	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-10.228	-0.0145	-2.5 to 2.5	Pass
				-20	3.85	-10.700	-0.0151	-2.5 to 2.5	Pass
				-10	3.85	-8.812	-0.0125	-2.5 to 2.5	Pass
				0	3.85	-6.065	-0.0086	-2.5 to 2.5	Pass
	711	50	0	10	3.85	-7.024	-0.0099	-2.5 to 2.5	Pass
				30	3.85	-8.898	-0.0126	-2.5 to 2.5	Pass
				40	3.85	-8.311	-0.0117	-2.5 to 2.5	Pass
				50	3.85	-6.952	-0.0098	-2.5 to 2.5	Pass
				20	3.27	-8.068	-0.0113	-2.5 to 2.5	Pass
					3.85	-4.535	-0.0064	-2.5 to 2.5	Pass
					4.43	-7.982	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-6.466	-0.0091	-2.5 to 2.5	Pass
				-20	3.85	-5.207	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-5.794	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-6.037	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-7.467	-0.0105	-2.5 to 2.5	Pass
				40	3.85	-6.051	-0.0085	-2.5 to 2.5	Pass
				50	3.85	-8.397	-0.0118	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

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

3.1.2 B12_3MHz

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

3.1.3 B12_5MHz

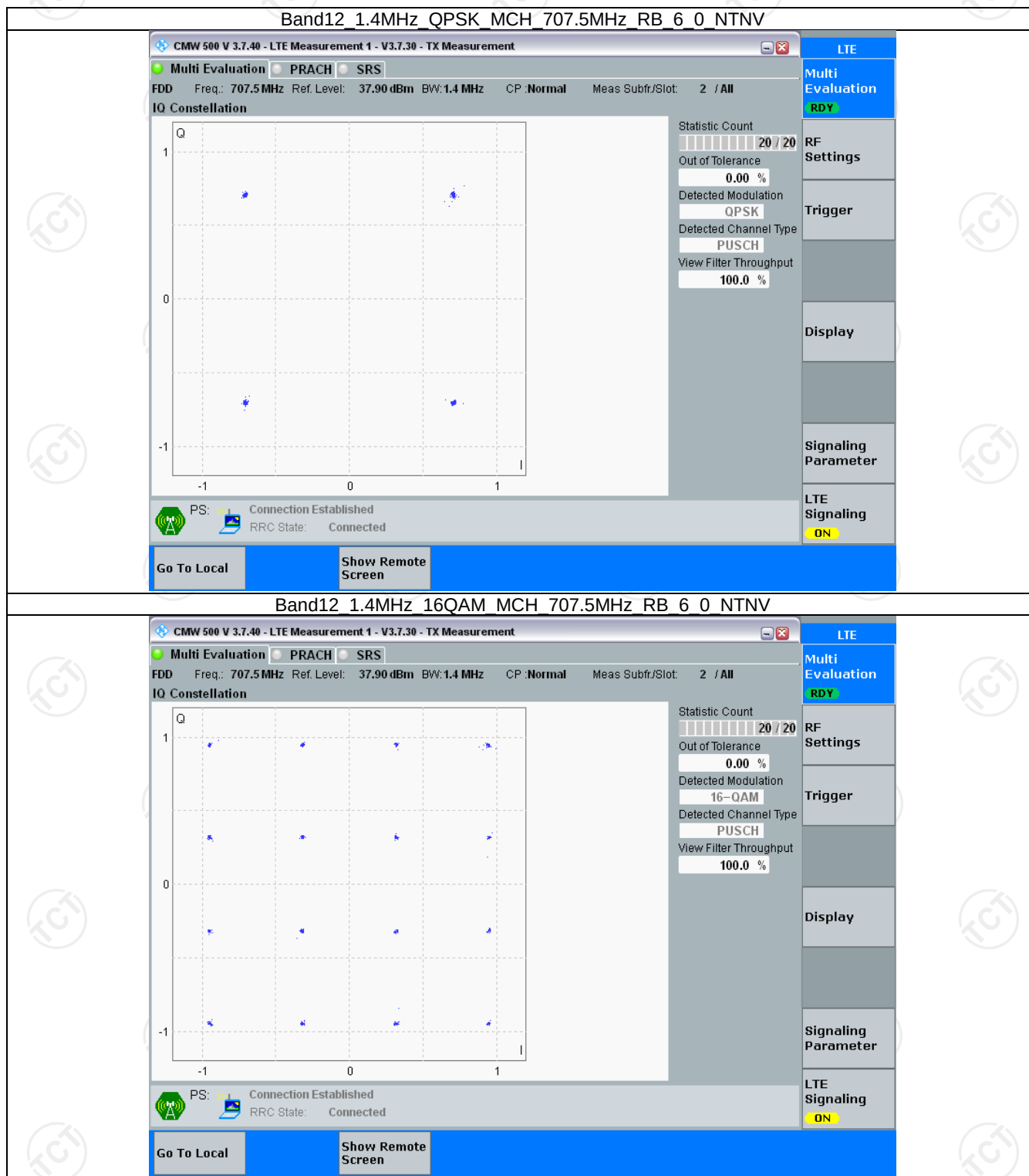
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

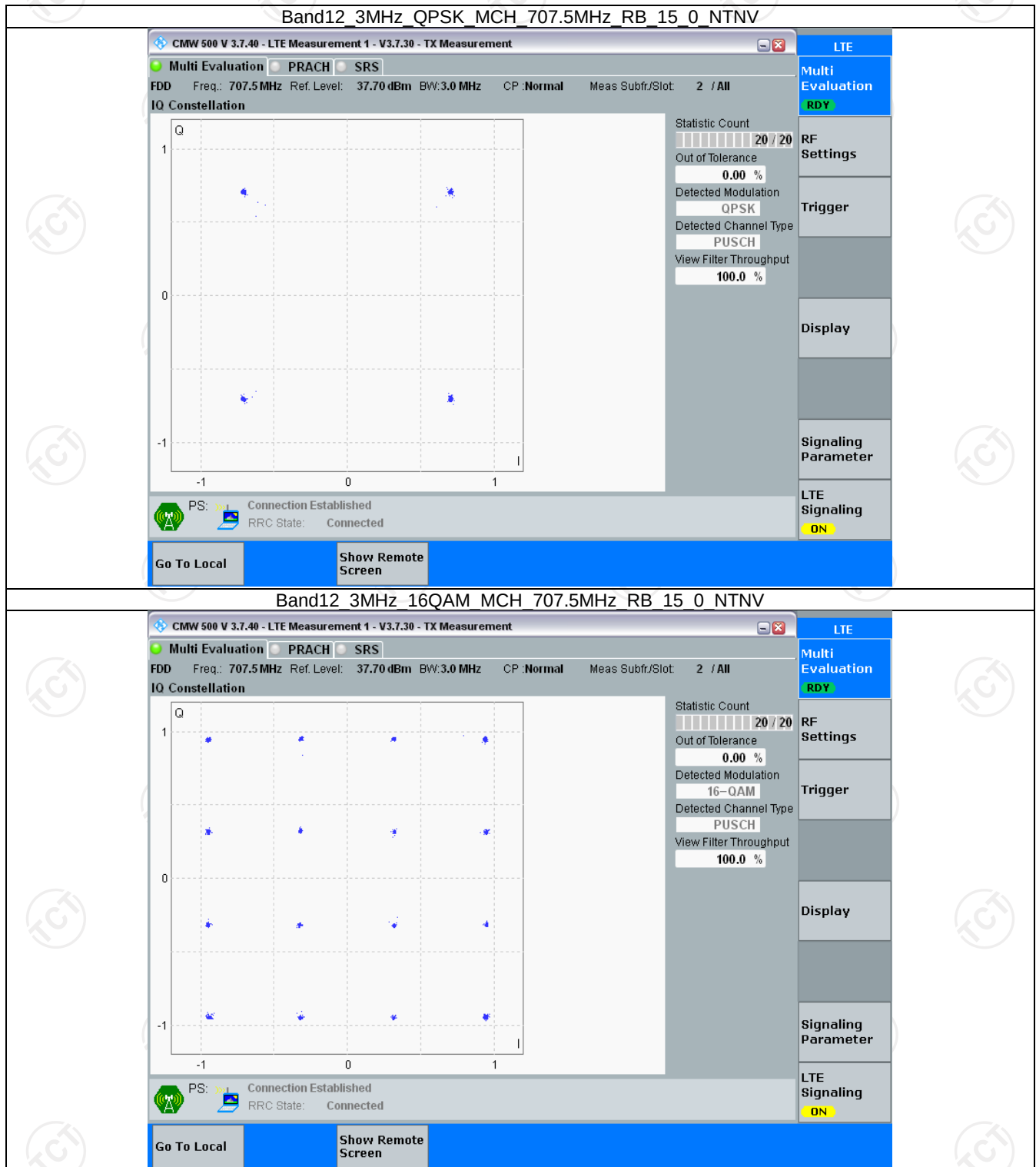
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

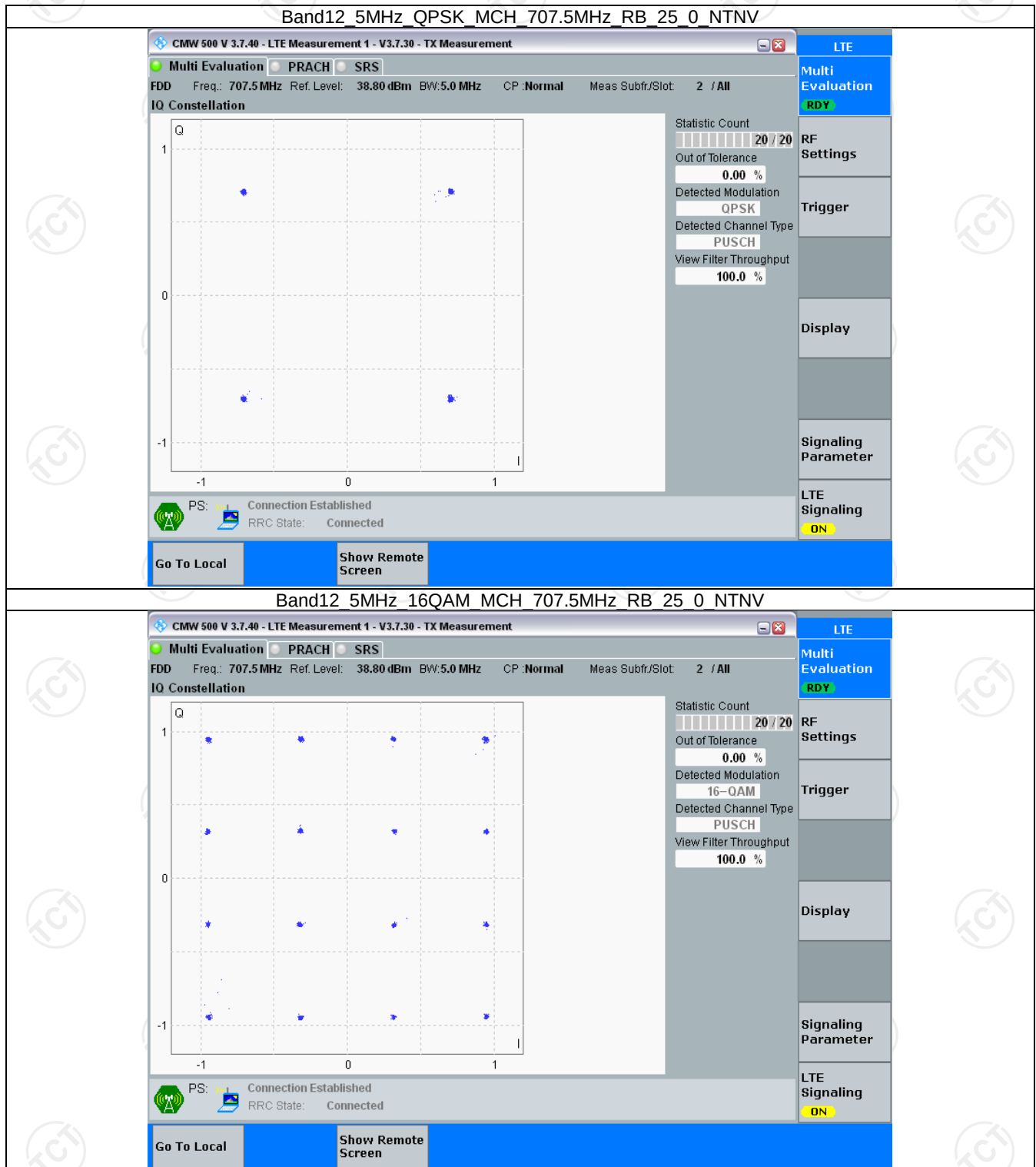
3.2.1 B12_1.4MHz



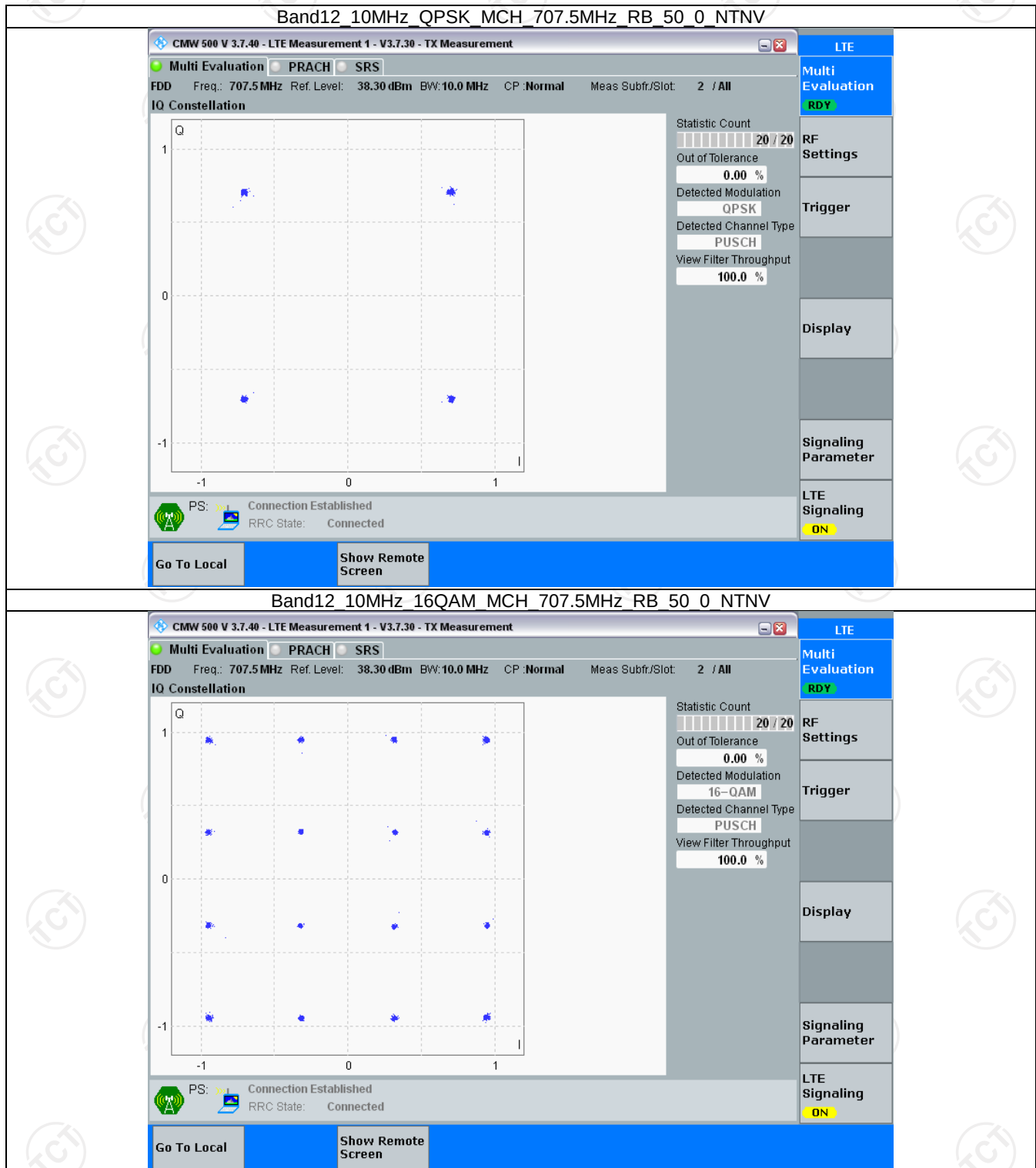
3.2.2 B12_3MHz



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	1.113	/	Pass
		707.5	6	0	1.108	/	Pass
		715.3	6	0	1.112	/	Pass
	16QAM	699.7	6	0	1.110	/	Pass
		707.5	6	0	1.105	/	Pass
		715.3	6	0	1.108	/	Pass
3	QPSK	700.5	15	0	2.727	/	Pass
		707.5	15	0	2.722	/	Pass
		714.5	15	0	2.723	/	Pass
	16QAM	700.5	15	0	2.727	/	Pass
		707.5	15	0	2.717	/	Pass
		714.5	15	0	2.720	/	Pass
5	QPSK	701.5	25	0	4.559	/	Pass
		707.5	25	0	4.568	/	Pass
		713.5	25	0	4.580	/	Pass
	16QAM	701.5	25	0	4.578	/	Pass
		707.5	25	0	4.597	/	Pass
		713.5	25	0	4.560	/	Pass
10	QPSK	704	50	0	9.072	/	Pass
		707.5	50	0	9.071	/	Pass
		711	50	0	9.082	/	Pass
	16QAM	704	50	0	9.073	/	Pass
		707.5	50	0	9.073	/	Pass
		711	50	0	9.047	/	Pass

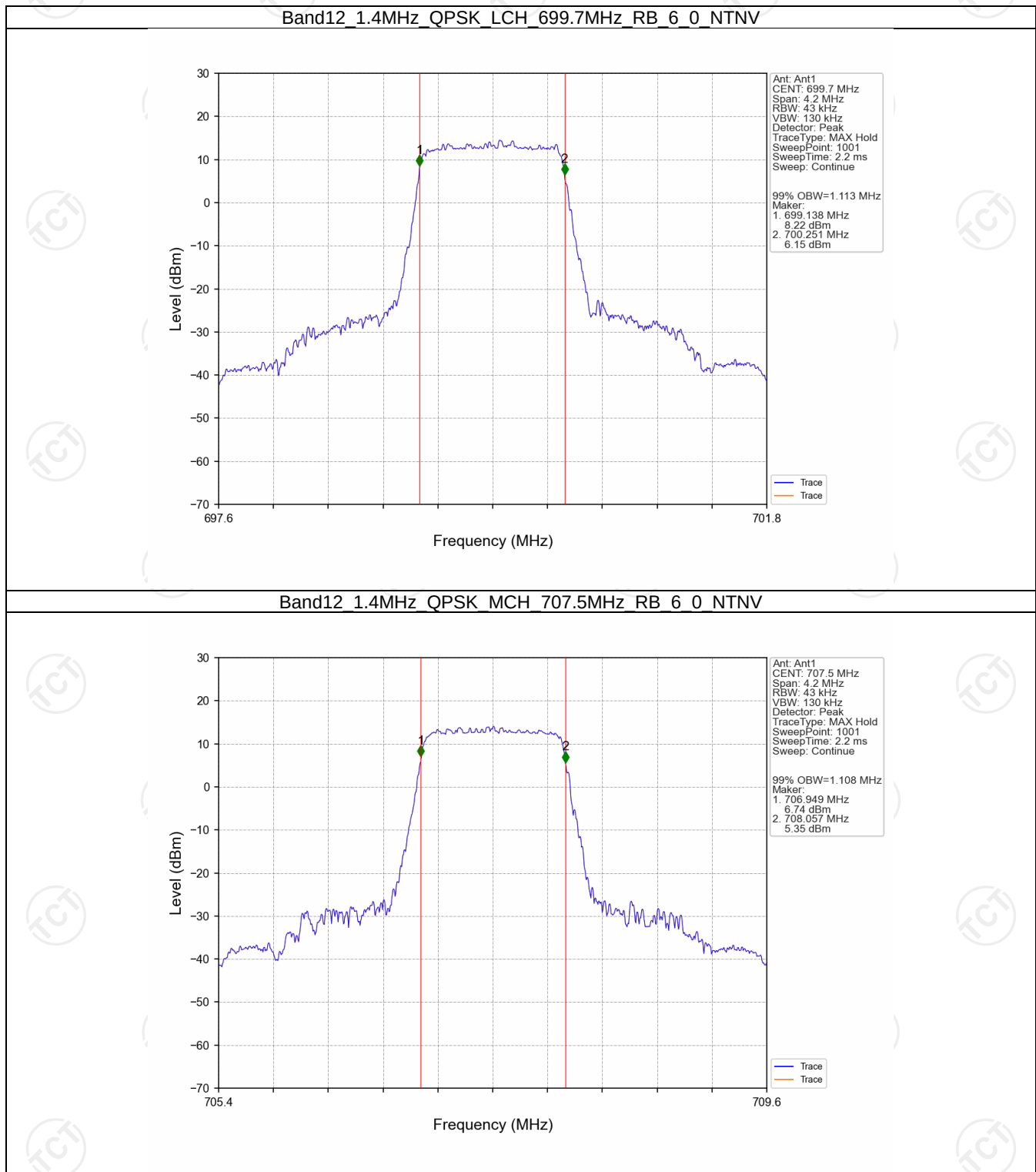
4.1.2 Band12_XDB

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	1.309	/	Pass
		707.5	6	0	1.330	/	Pass
		715.3	6	0	1.327	/	Pass
	16QAM	699.7	6	0	1.328	/	Pass
		707.5	6	0	1.298	/	Pass
		715.3	6	0	1.328	/	Pass
3	QPSK	700.5	15	0	2.995	/	Pass
		707.5	15	0	3.052	/	Pass
		714.5	15	0	3.004	/	Pass
	16QAM	700.5	15	0	2.997	/	Pass
		707.5	15	0	2.980	/	Pass
		714.5	15	0	3.008	/	Pass
5	QPSK	701.5	25	0	5.262	/	Pass
		707.5	25	0	5.207	/	Pass
		713.5	25	0	5.205	/	Pass

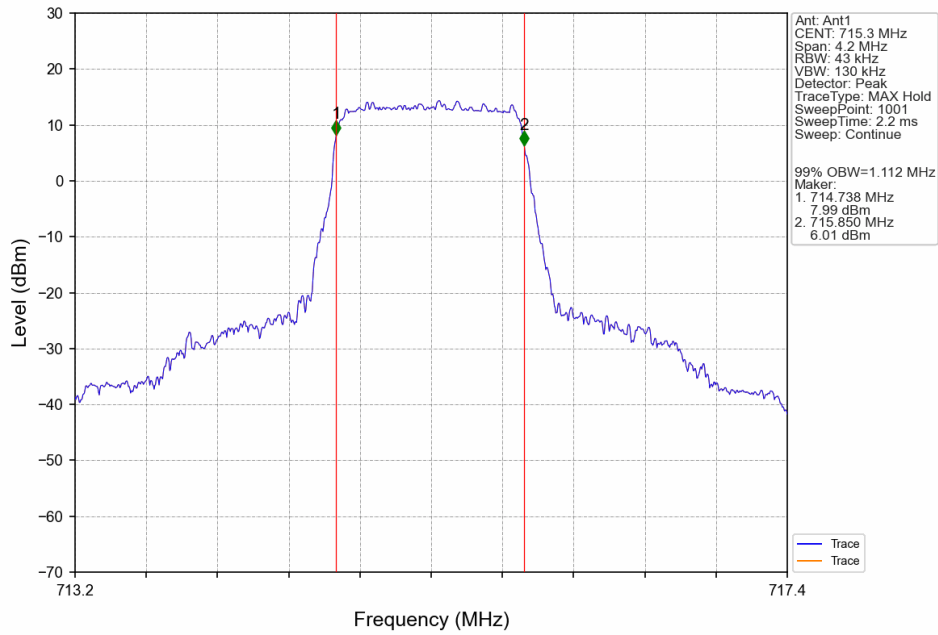
10	16QAM	701.5	25	0	5.214	/	Pass
		707.5	25	0	5.255	/	Pass
		713.5	25	0	5.194	/	Pass
	QPSK	704	50	0	10.299	/	Pass
		707.5	50	0	10.319	/	Pass
		711	50	0	10.364	/	Pass
	16QAM	704	50	0	10.330	/	Pass
		707.5	50	0	10.229	/	Pass
		711	50	0	10.180	/	Pass

4.2 Test Graph

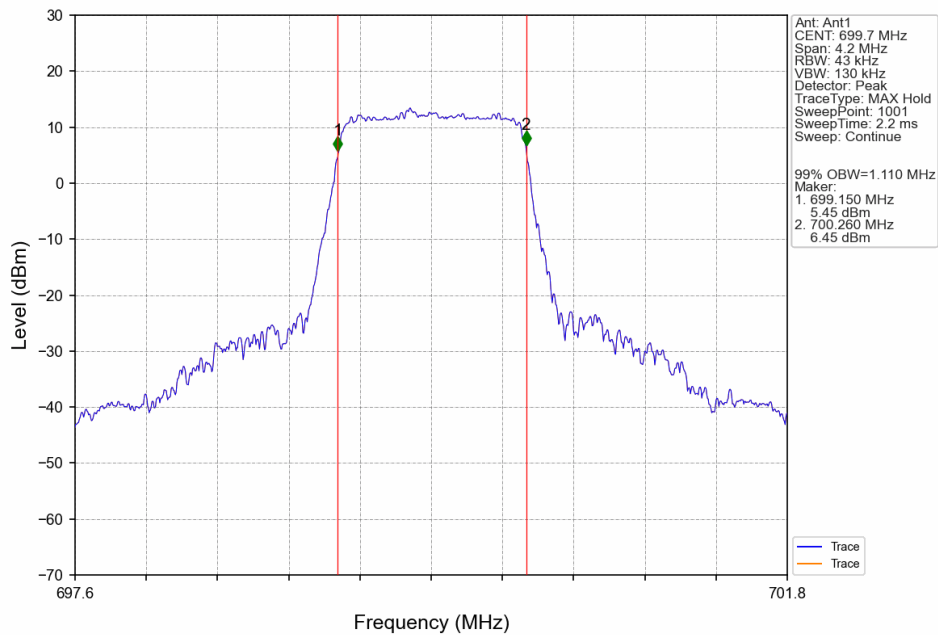
4.2.1 Band12_OBW



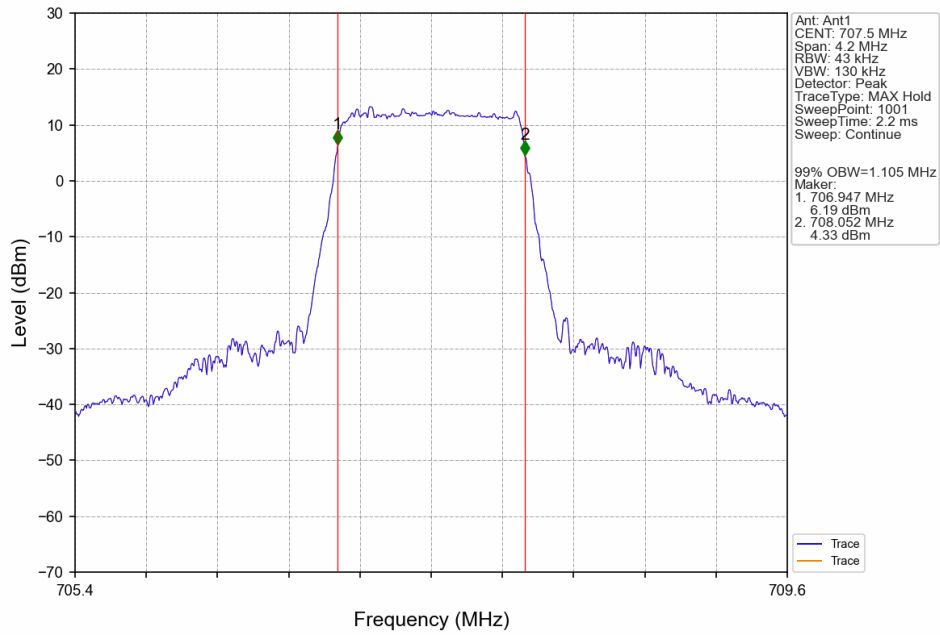
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



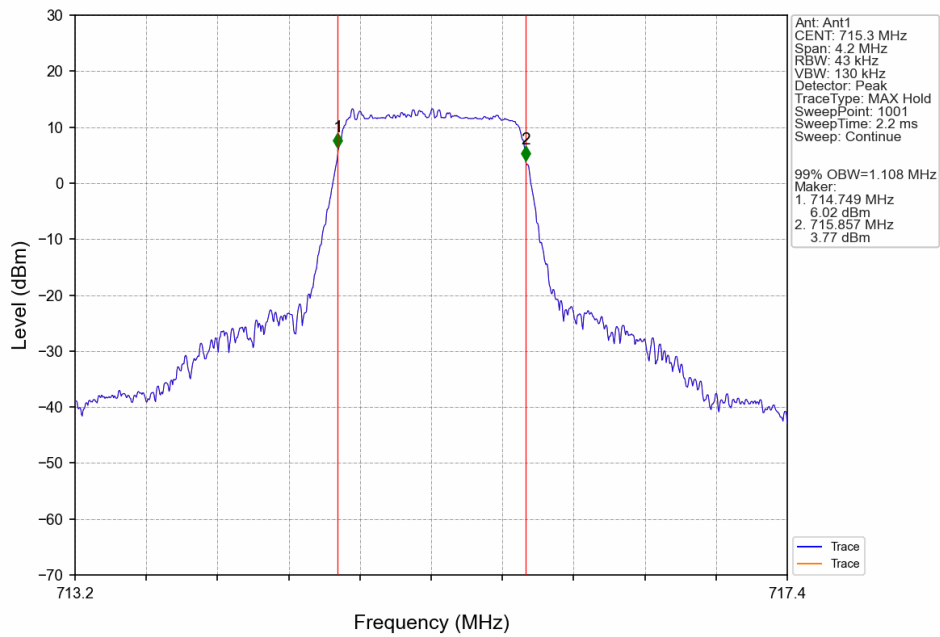
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



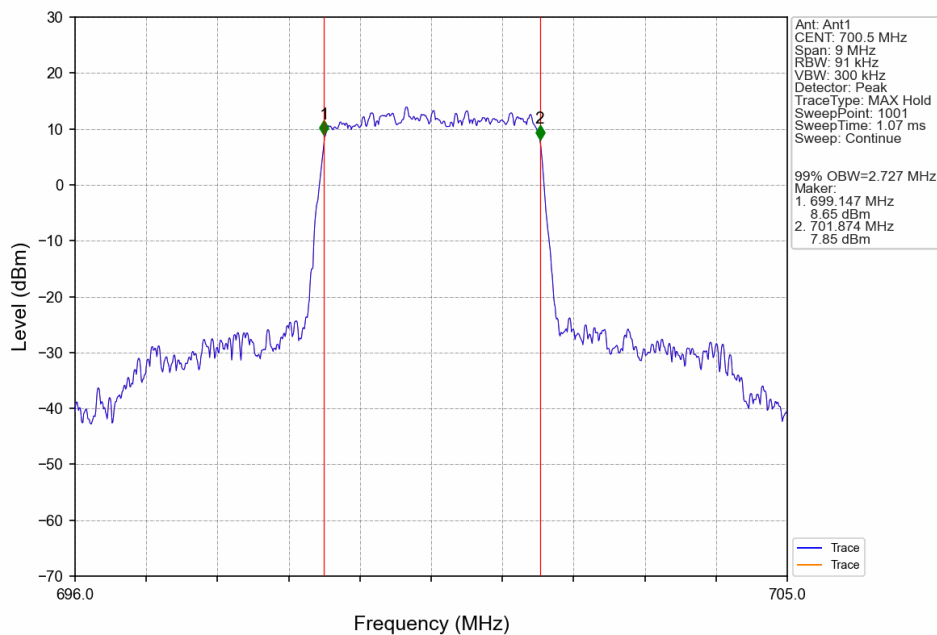
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



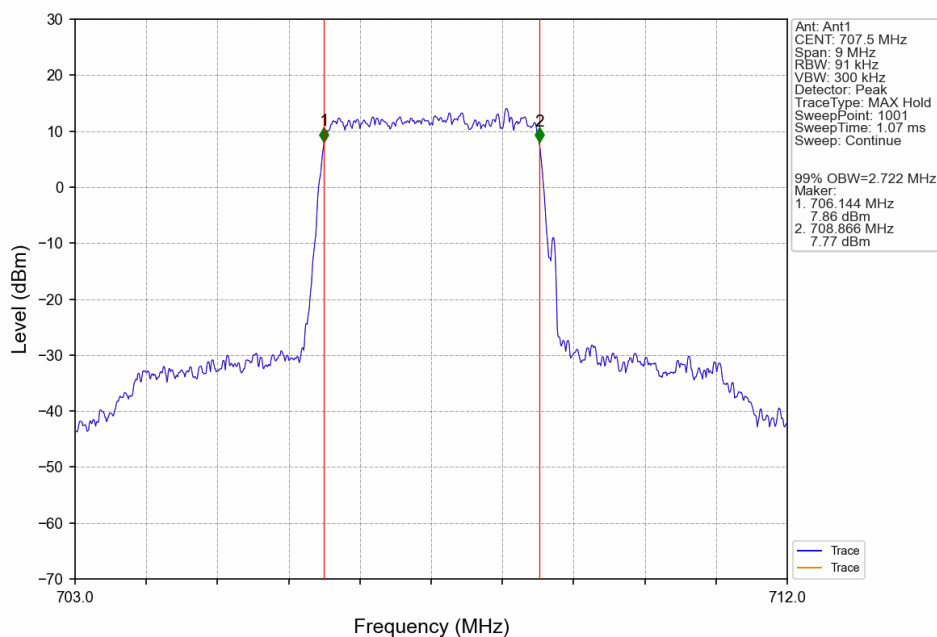
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



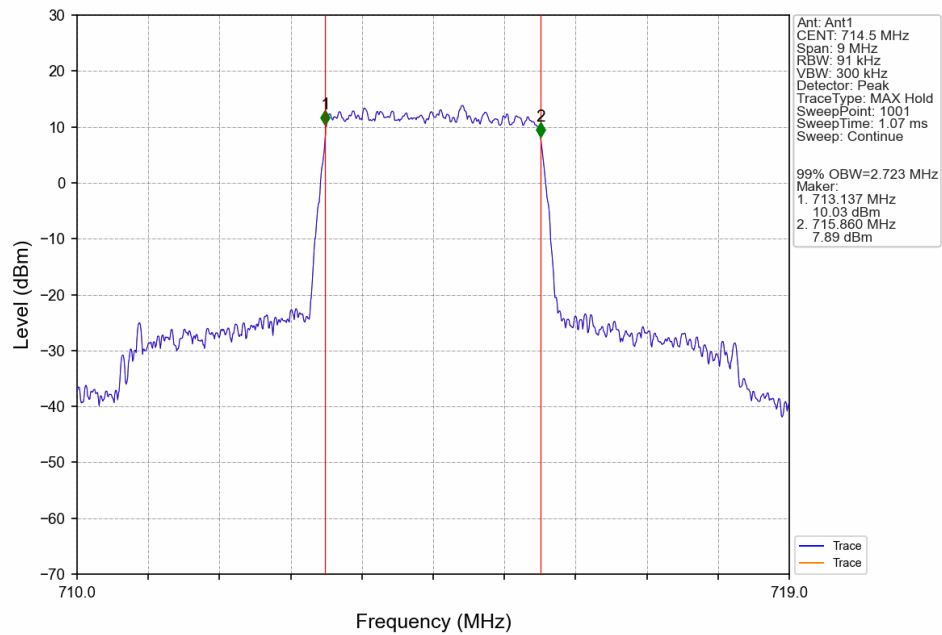
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



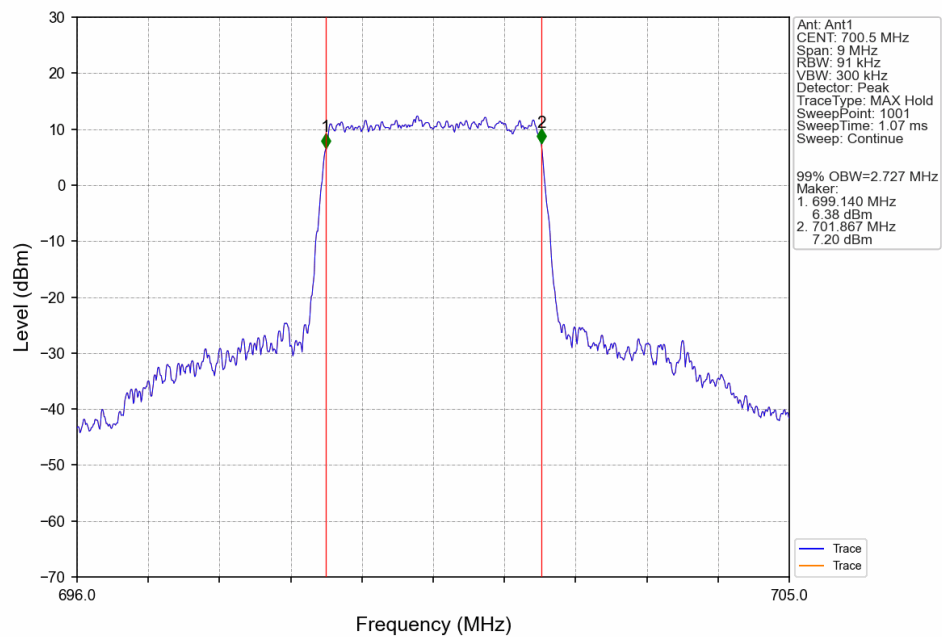
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



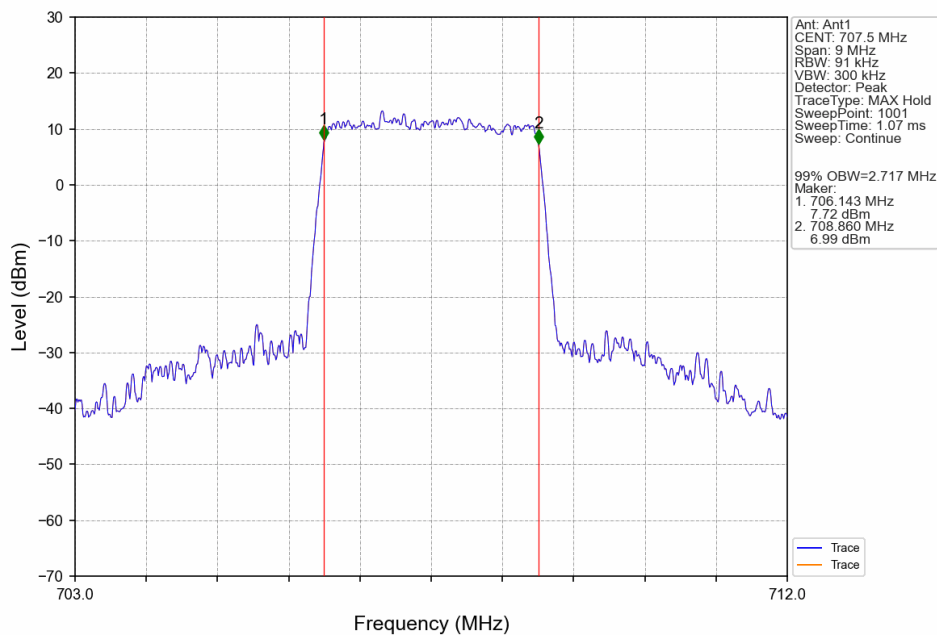
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



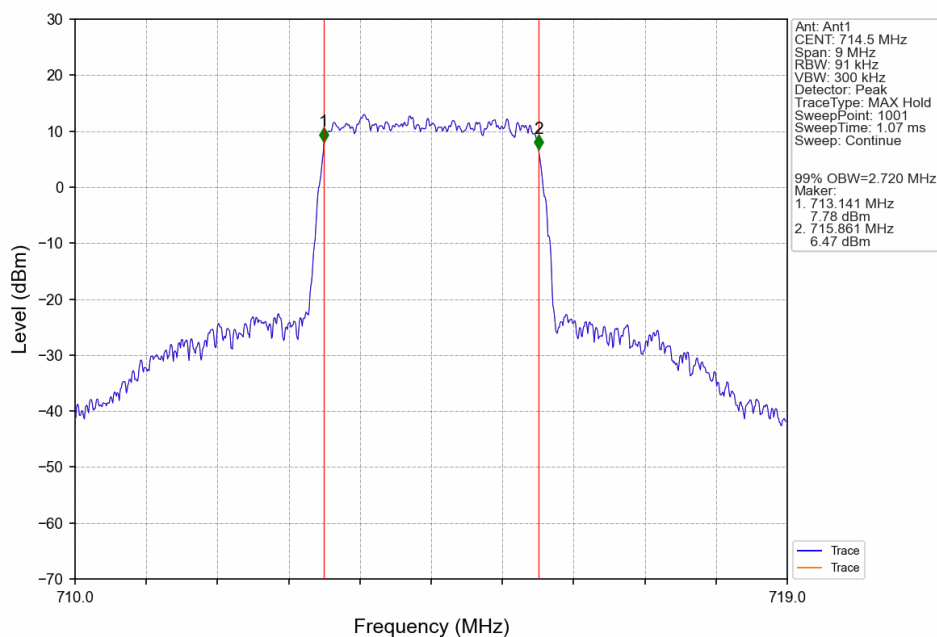
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



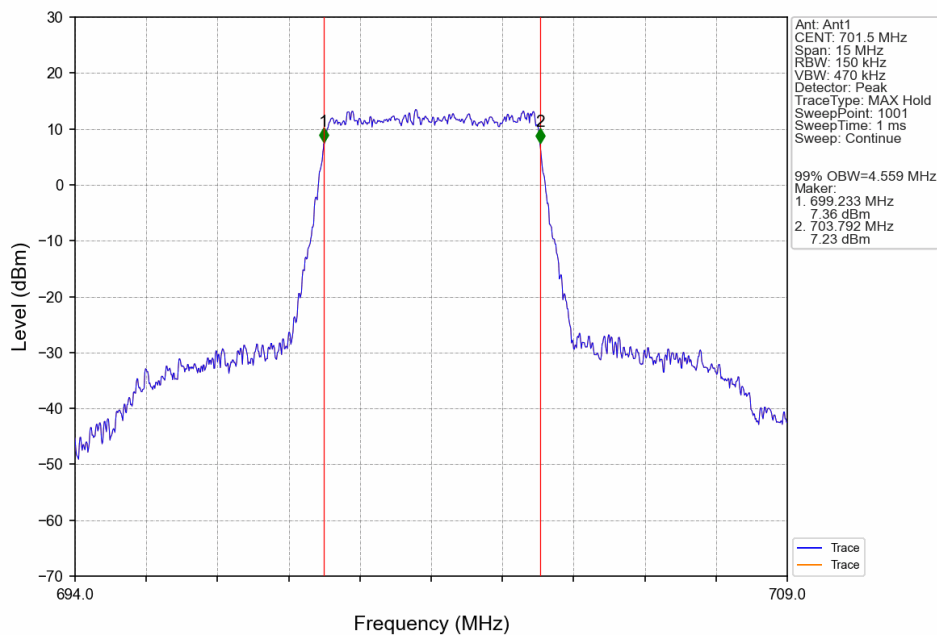
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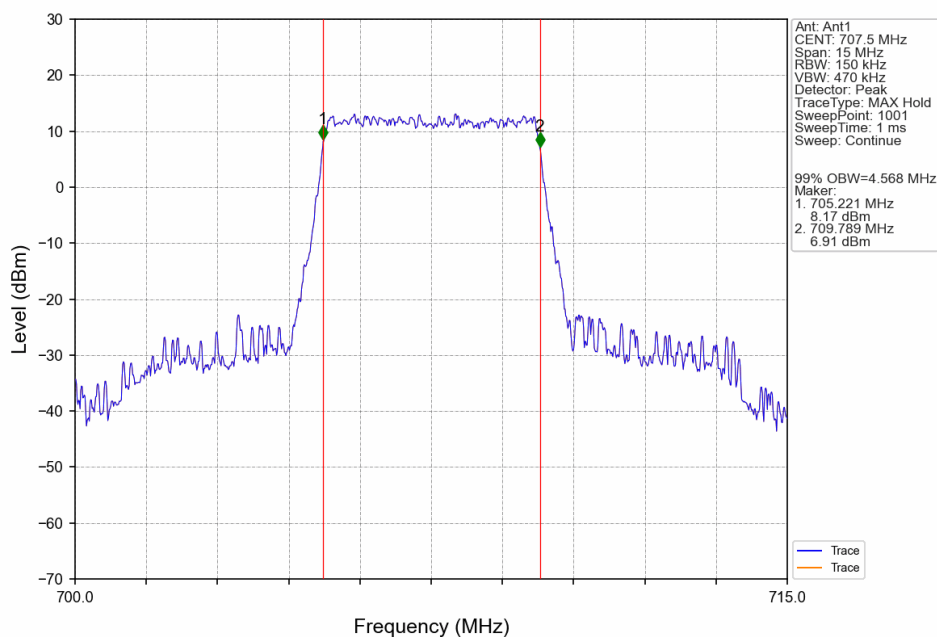
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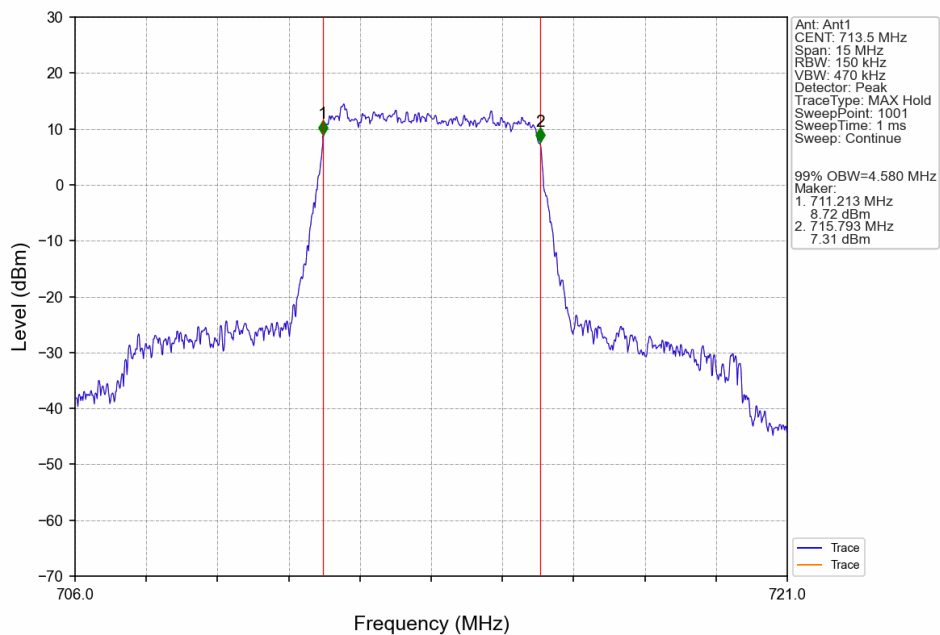
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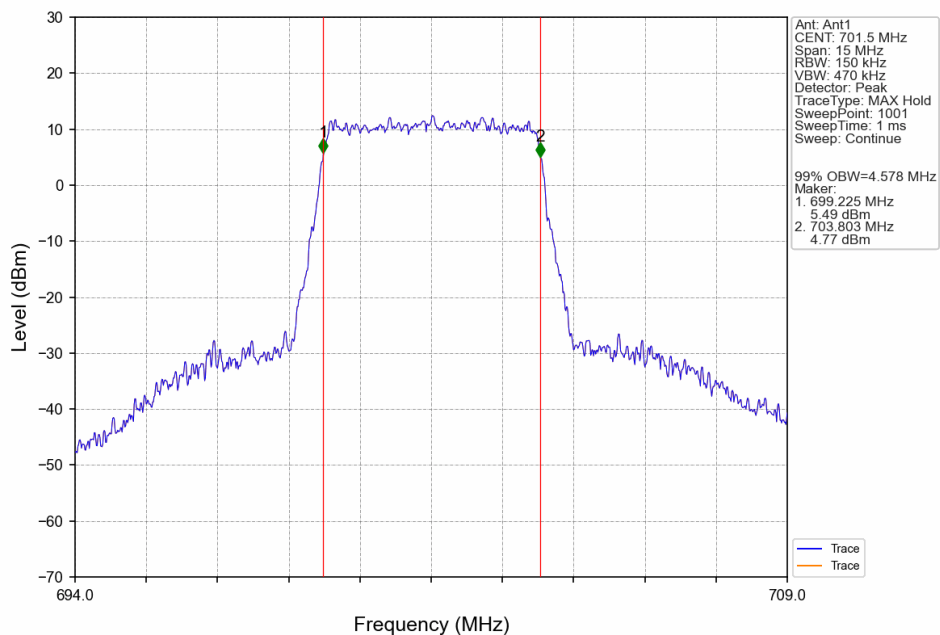
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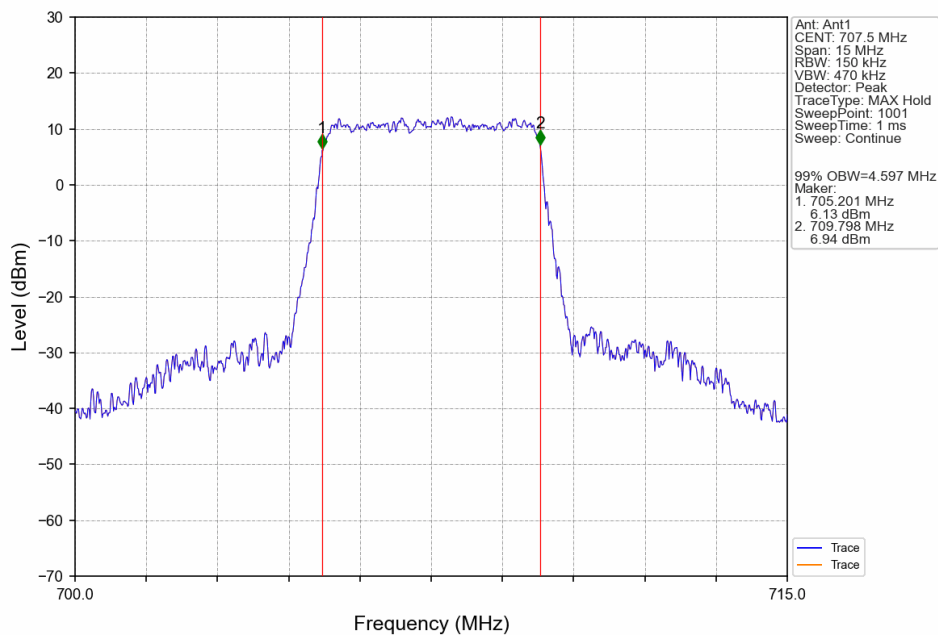
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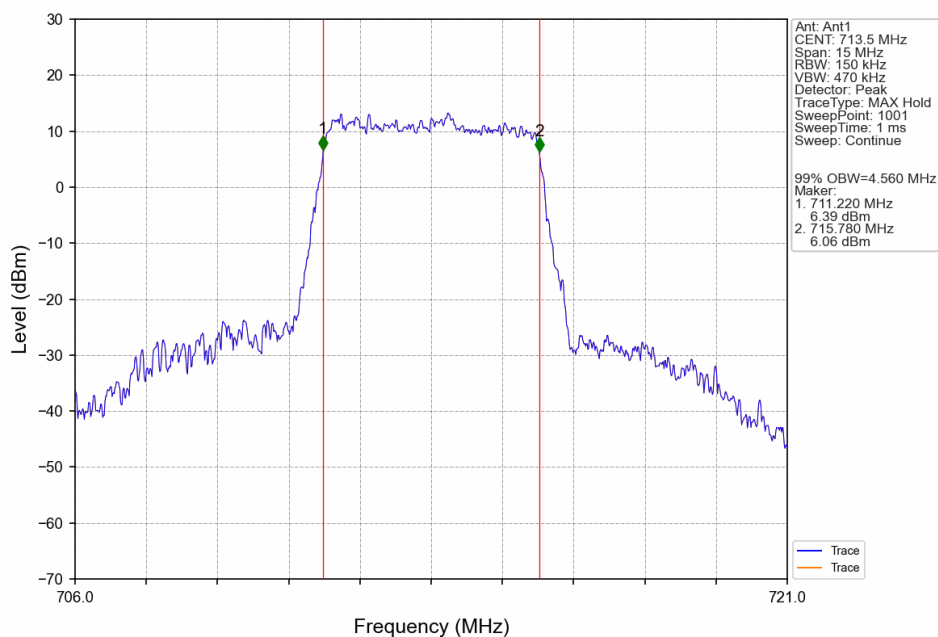
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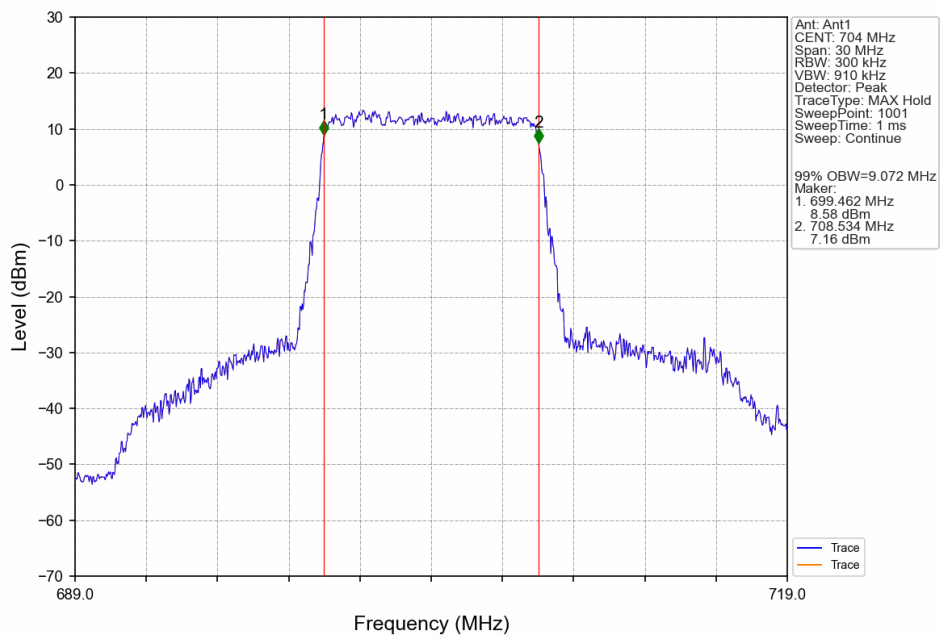
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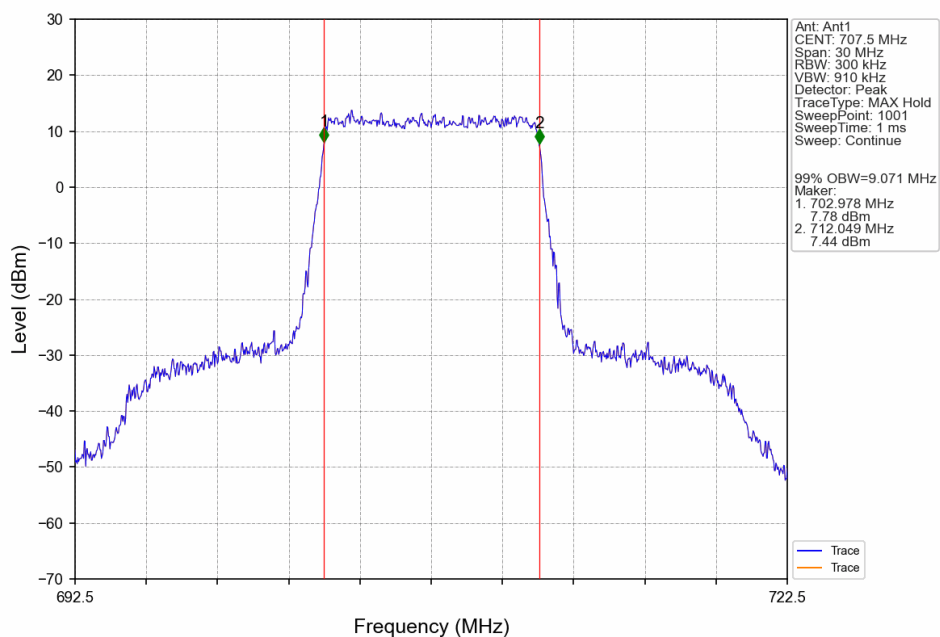
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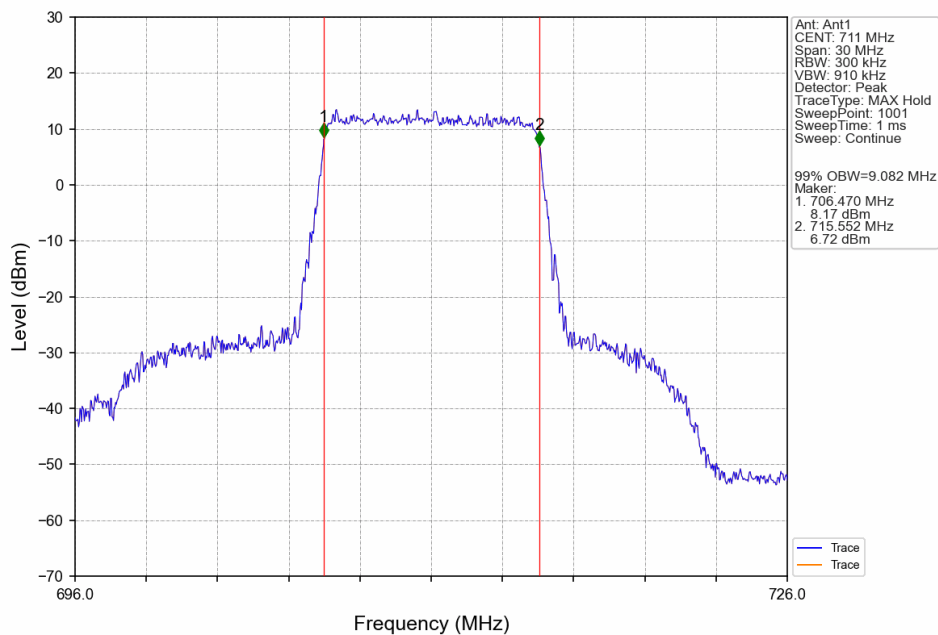
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTNV



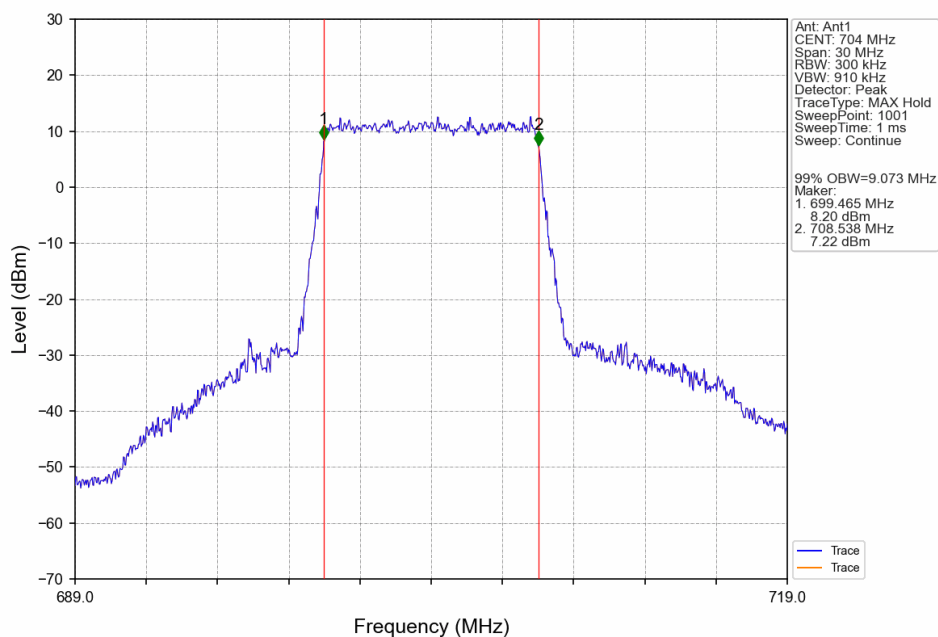
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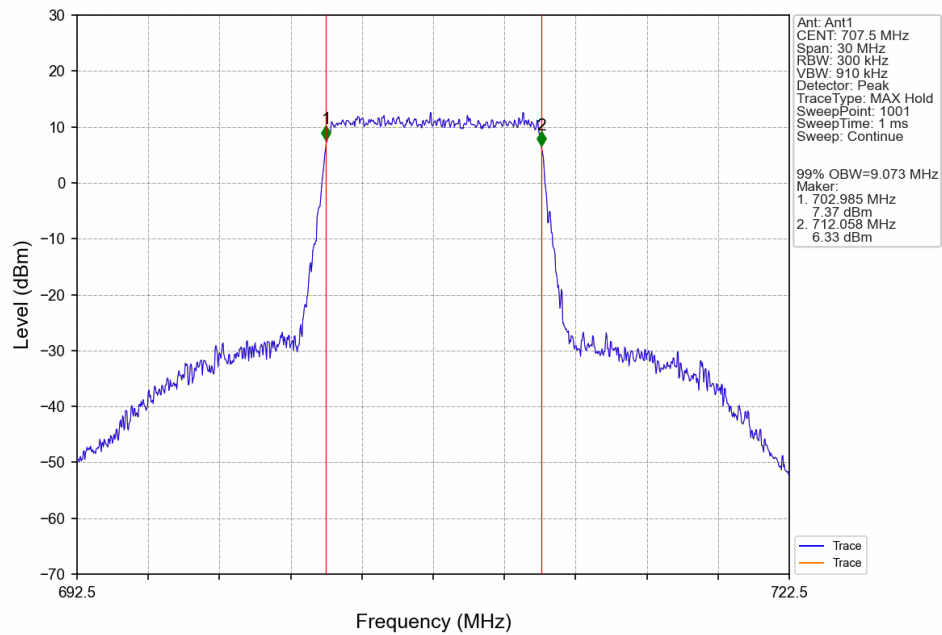
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



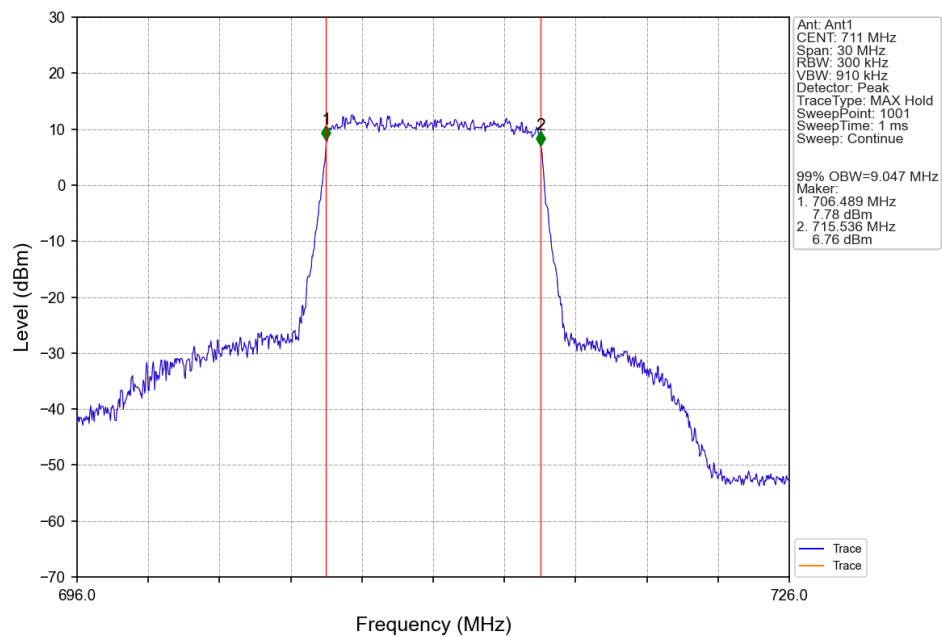
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



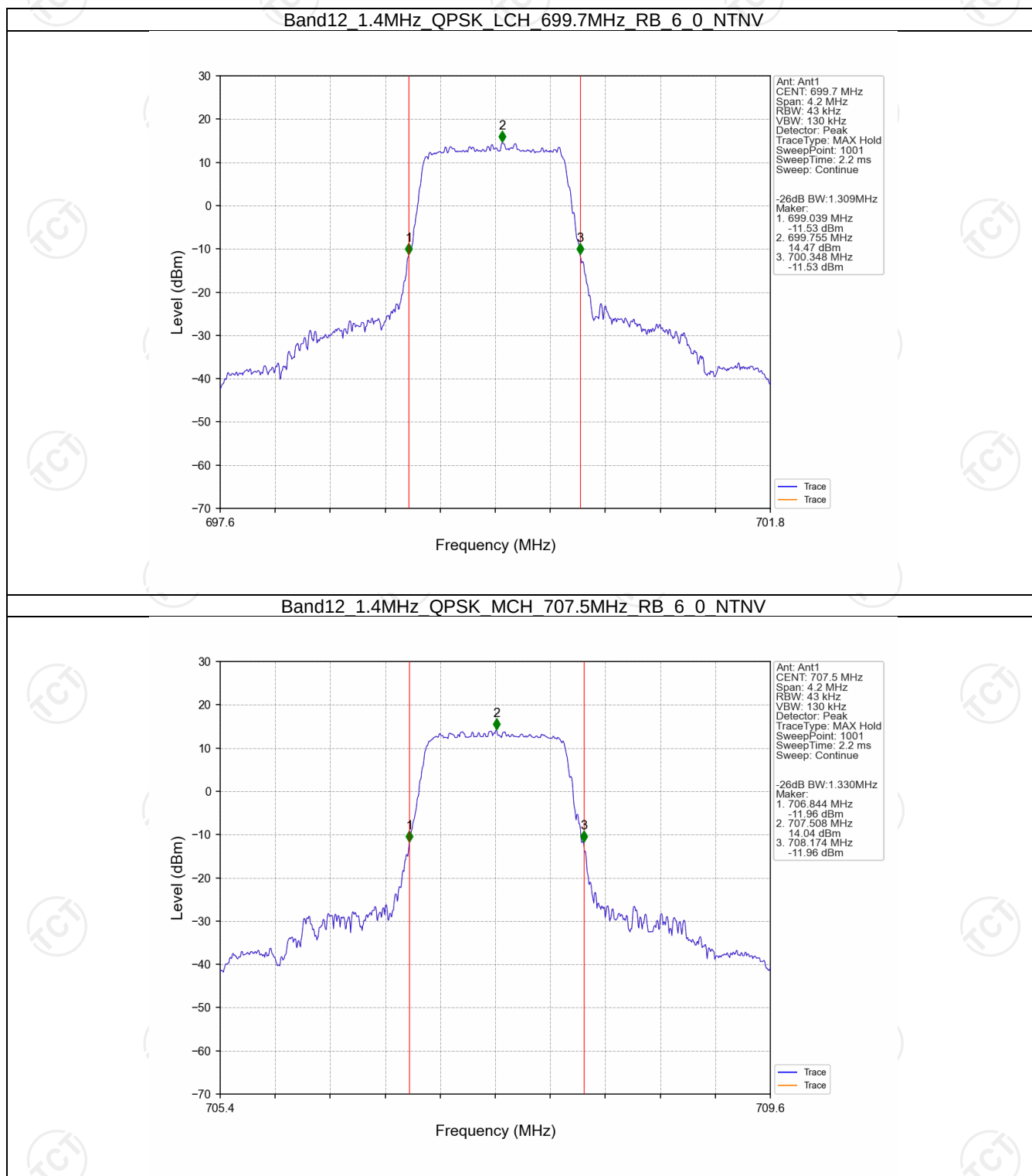
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



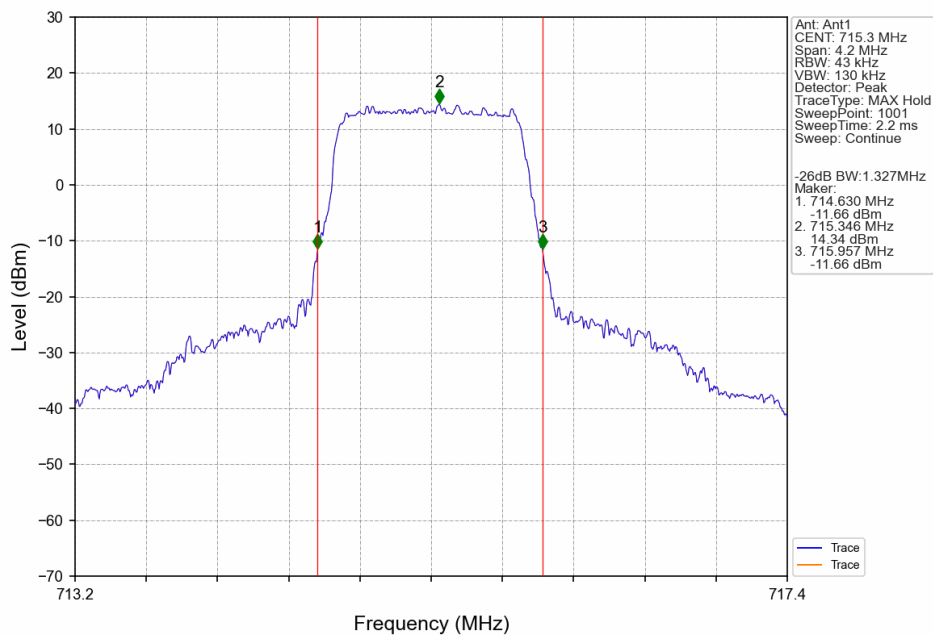
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



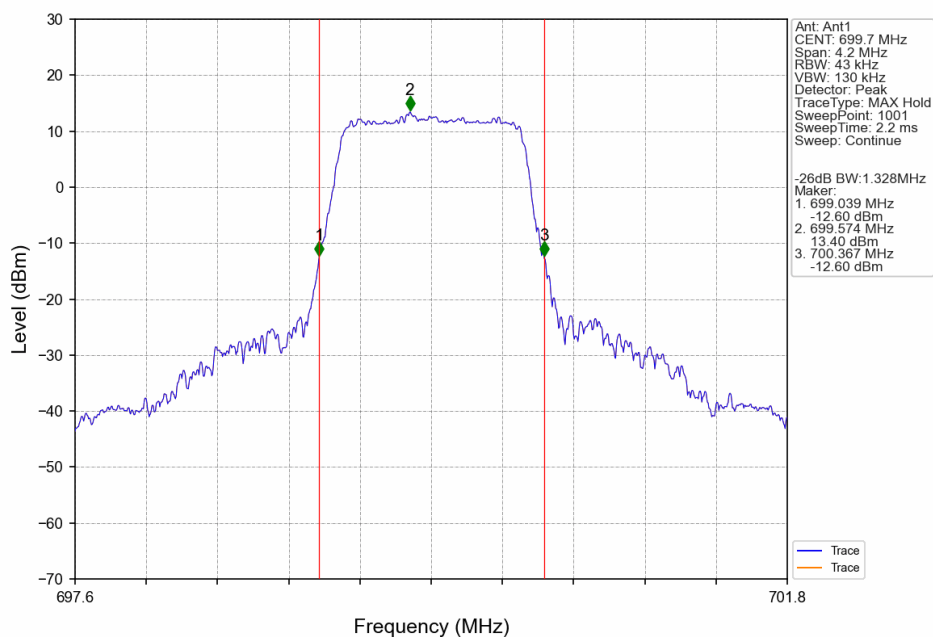
4.2.2 Band12_XDB



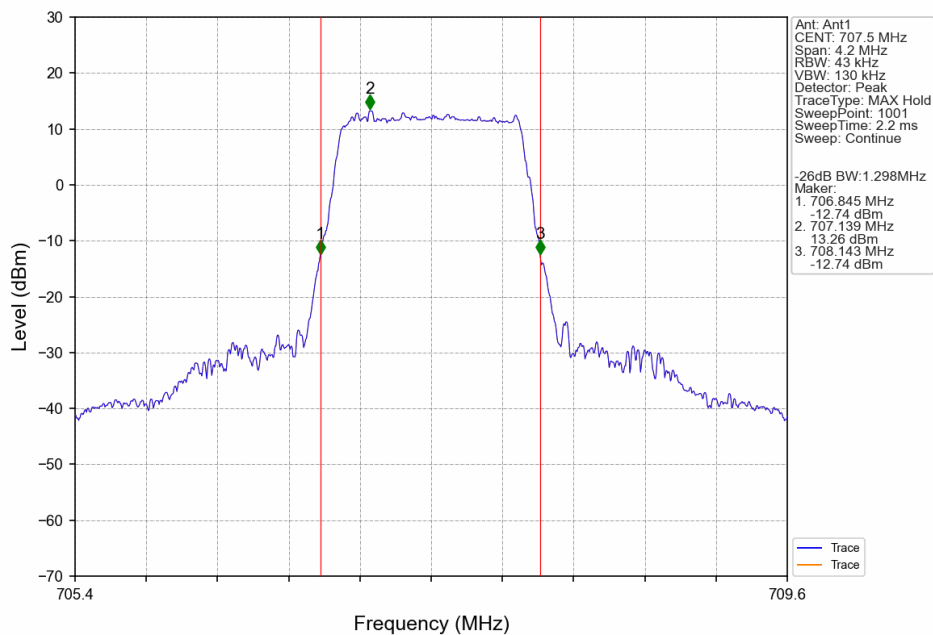
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



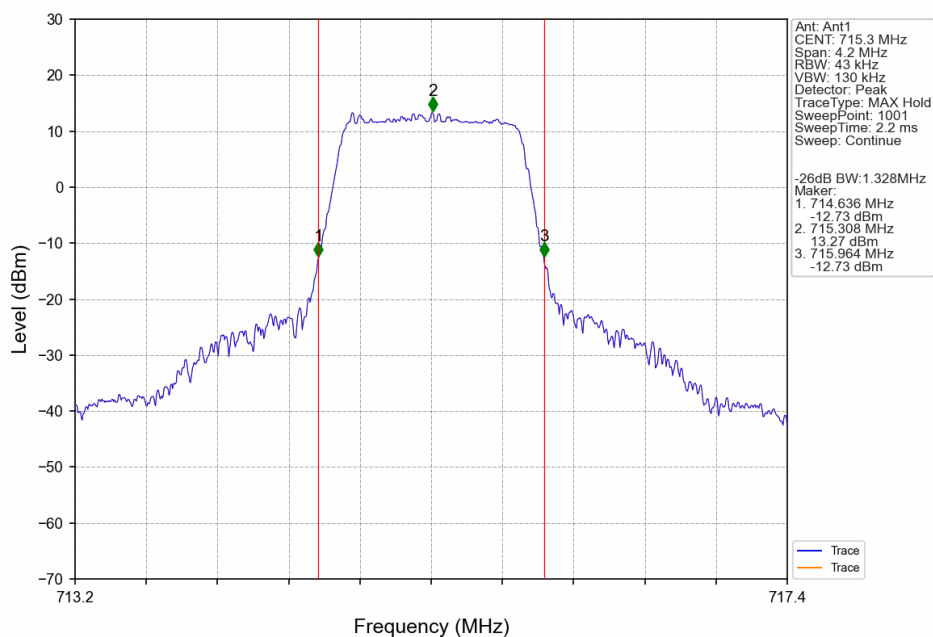
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



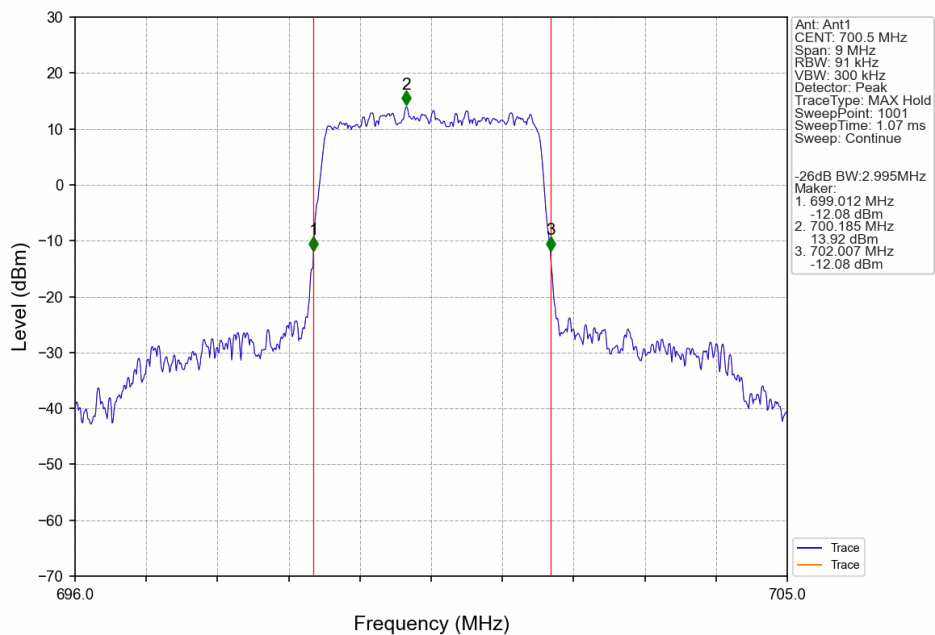
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



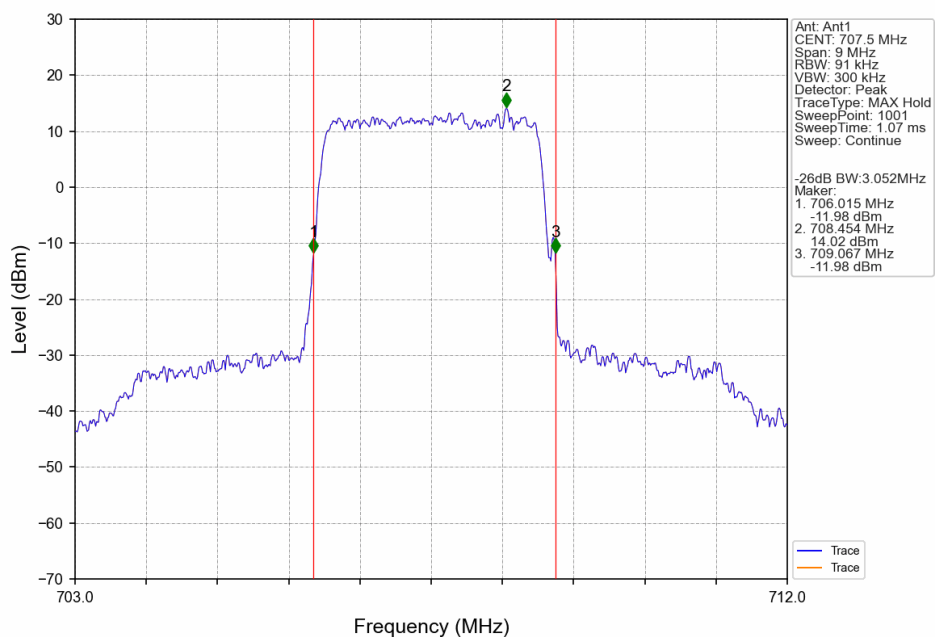
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



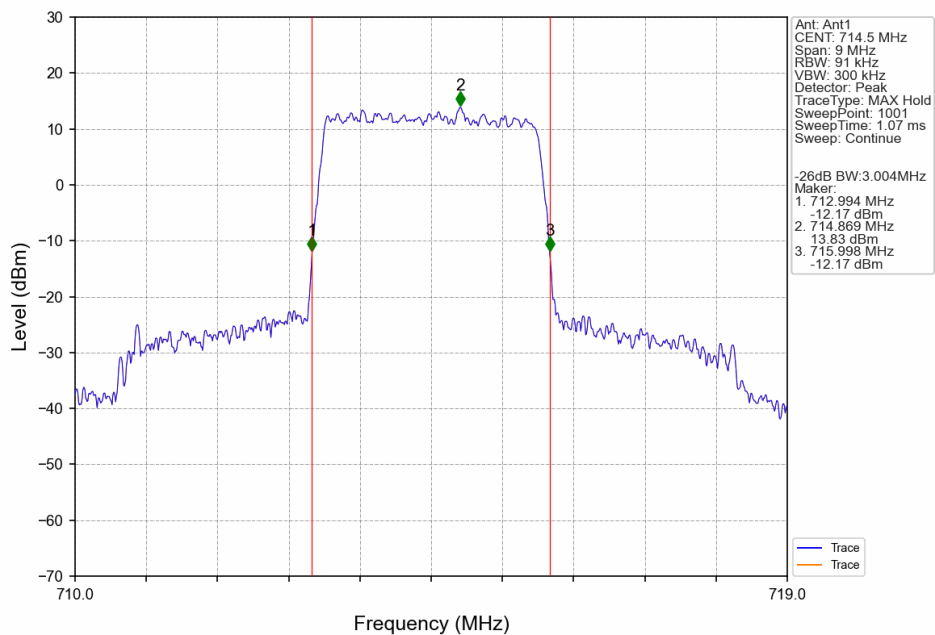
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



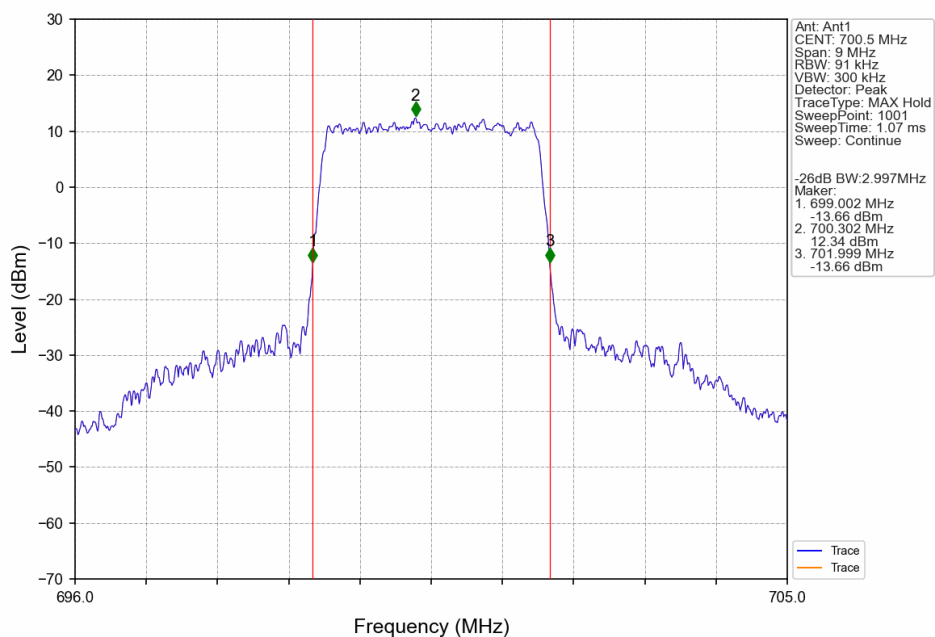
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



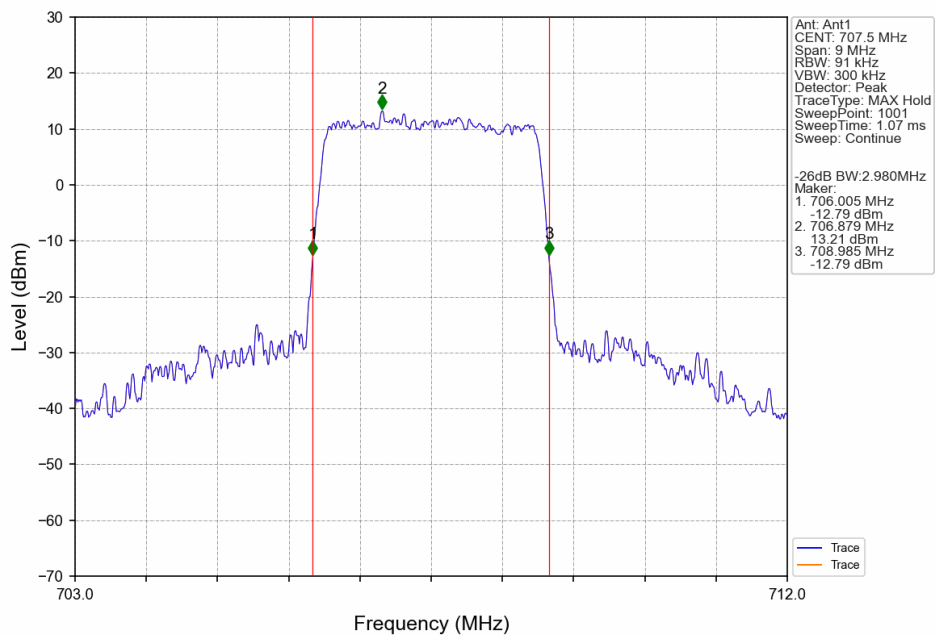
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



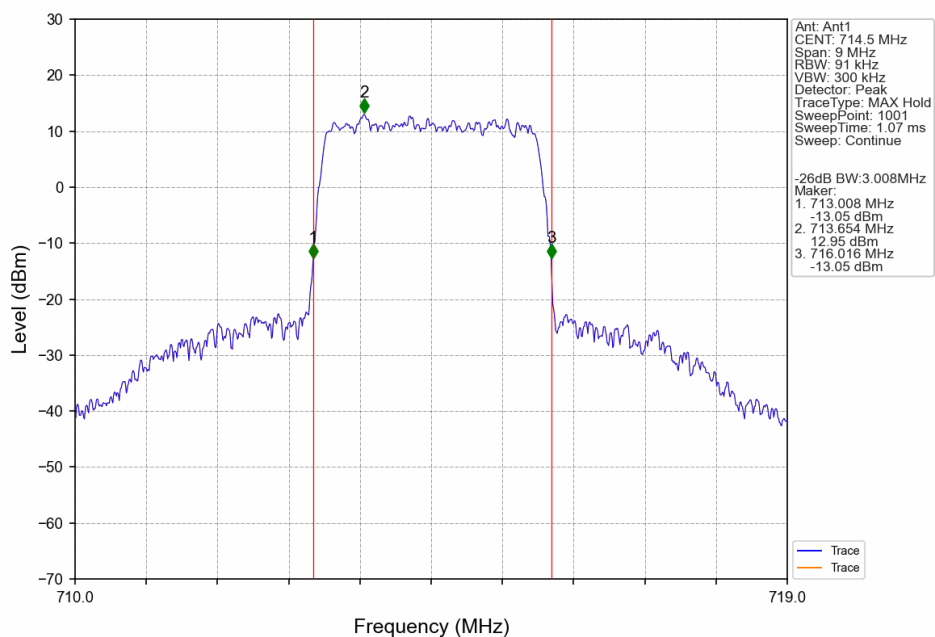
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



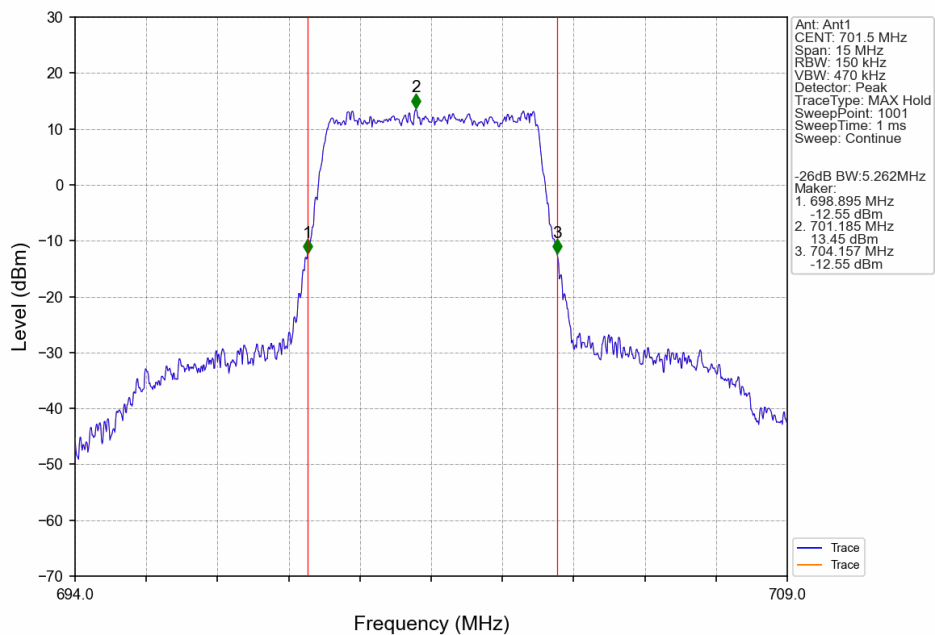
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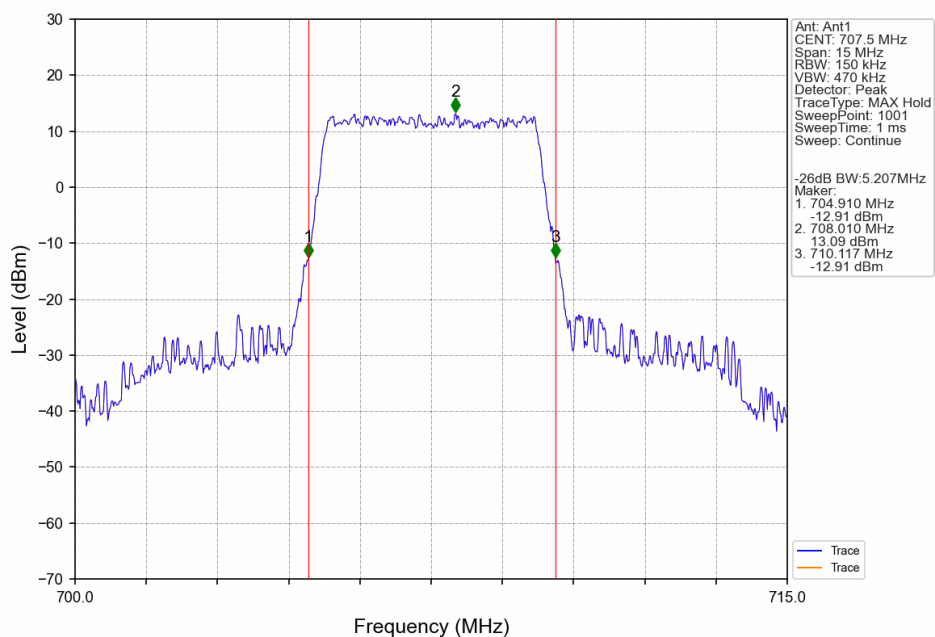
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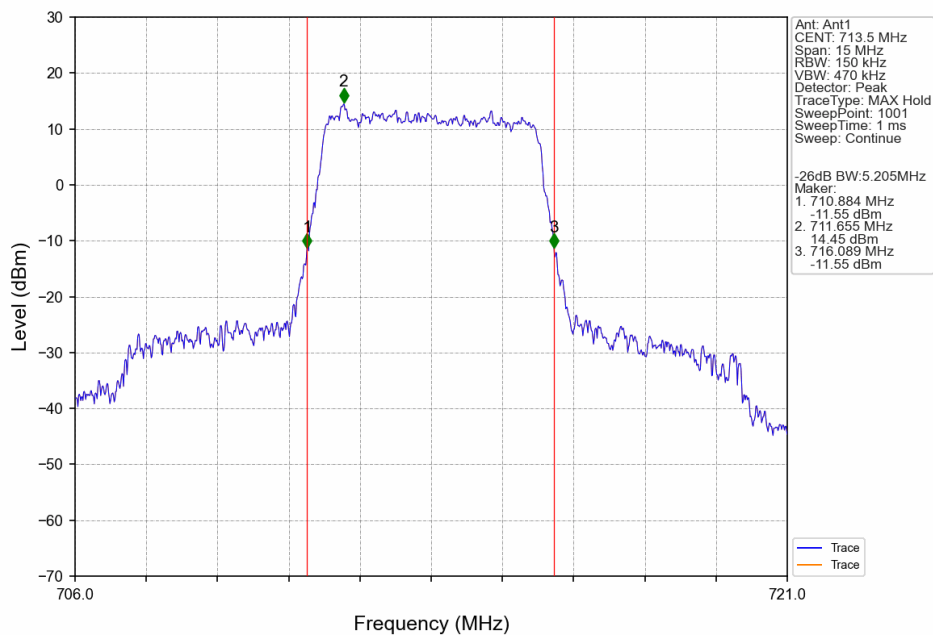
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



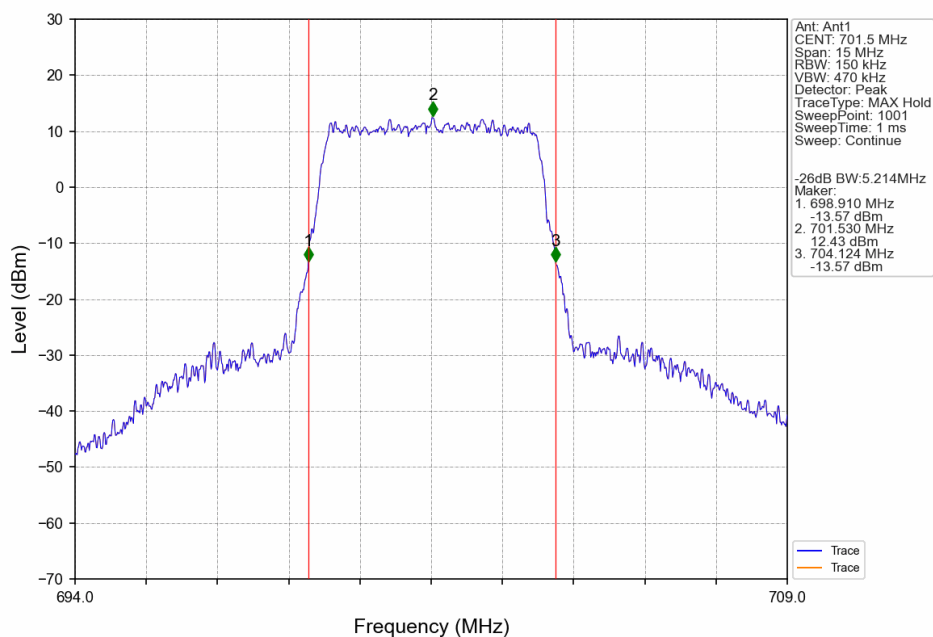
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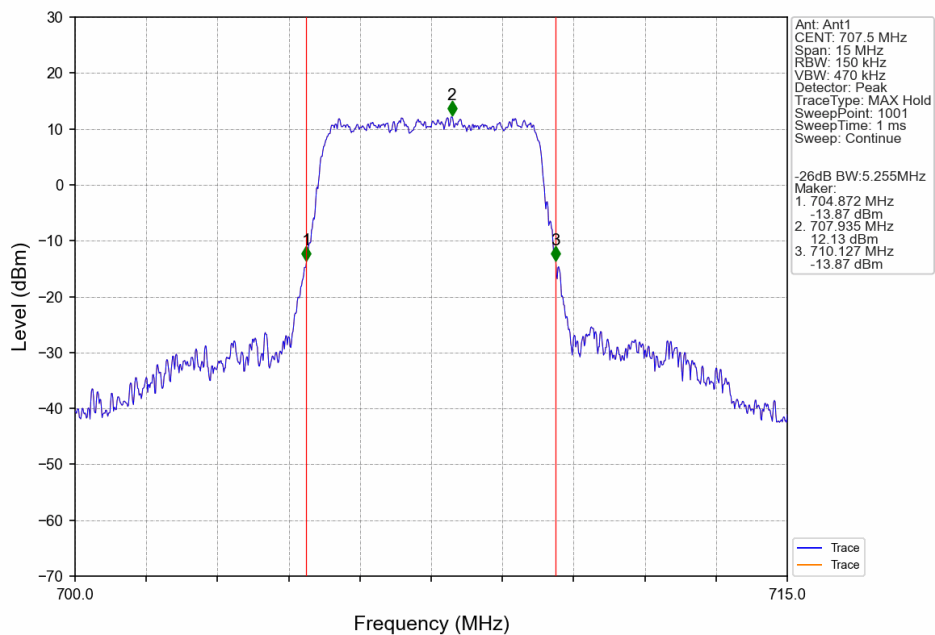
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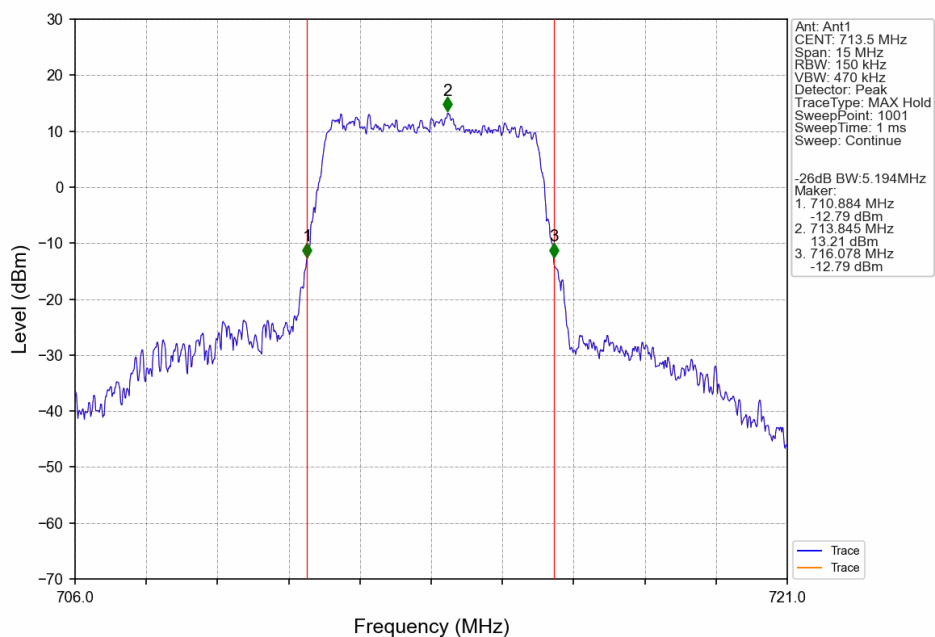
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTV



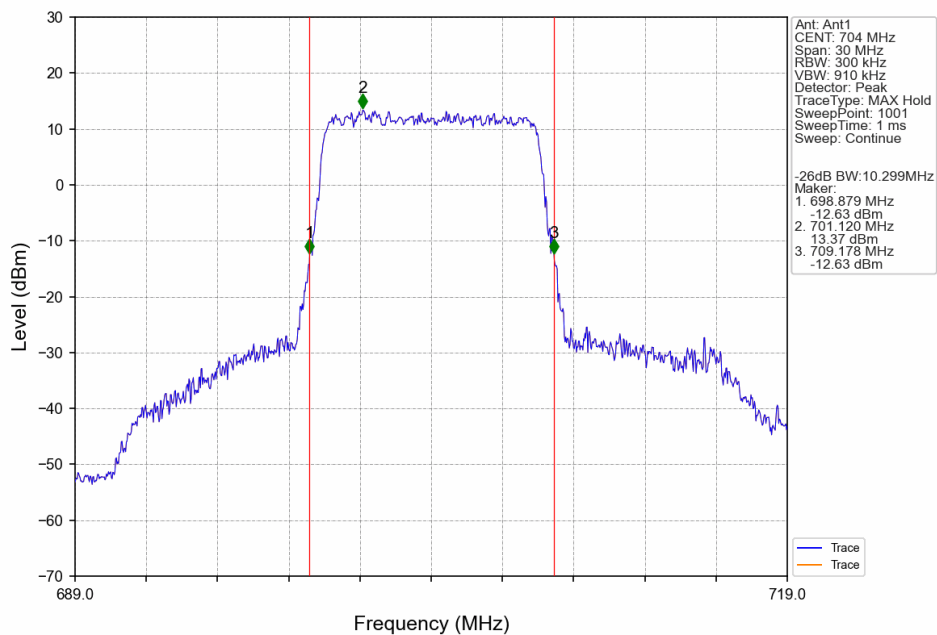
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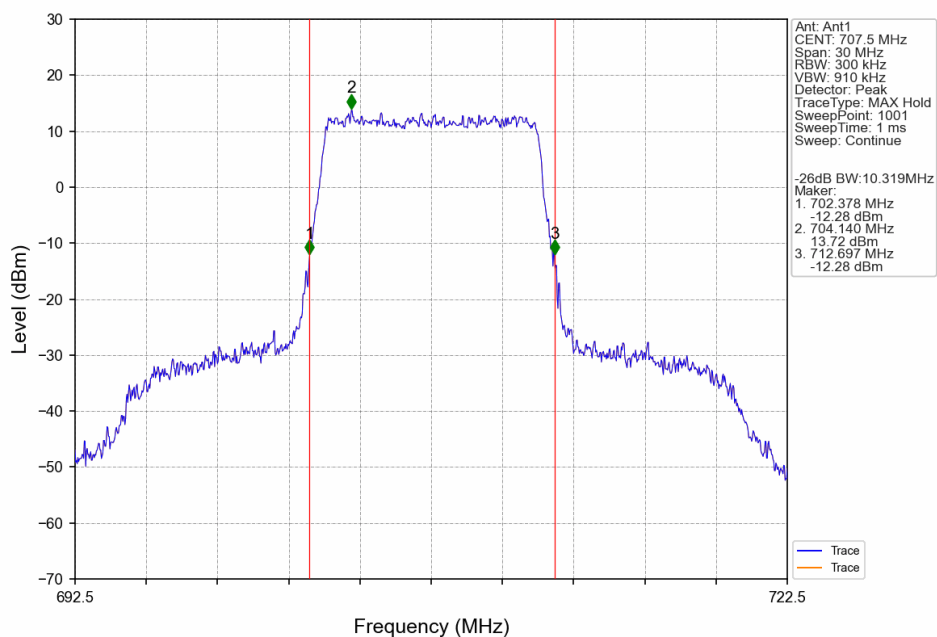
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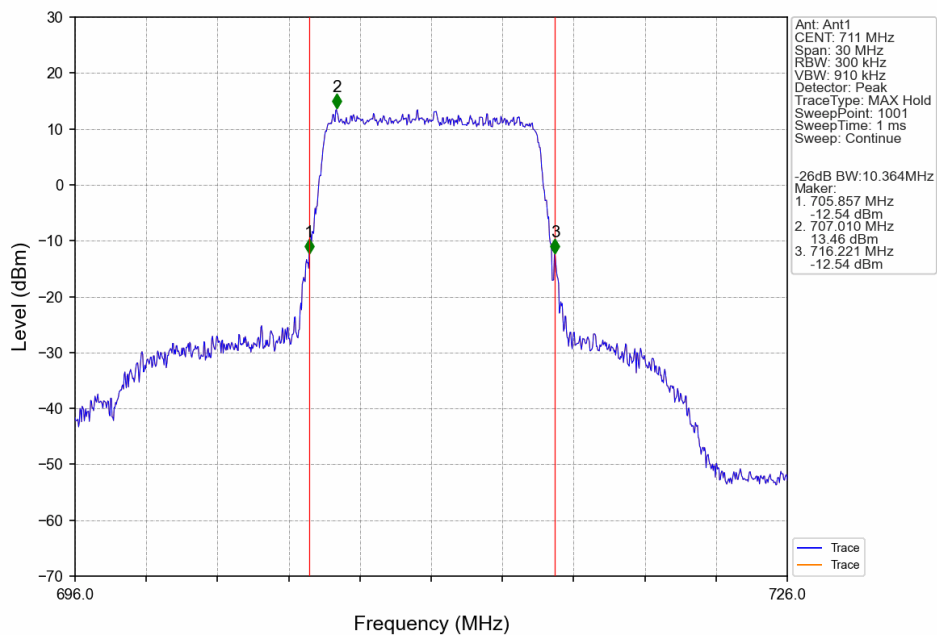
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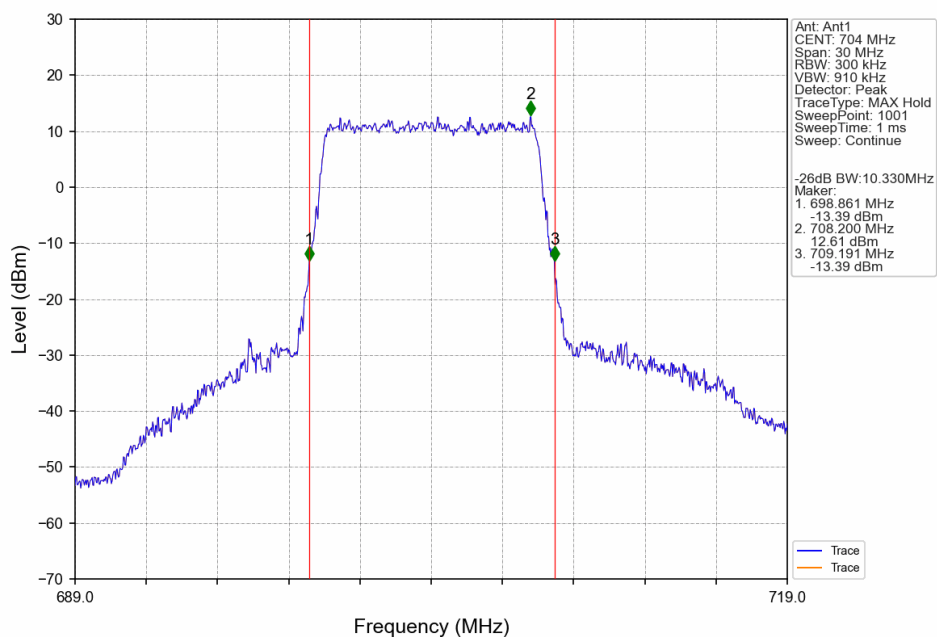
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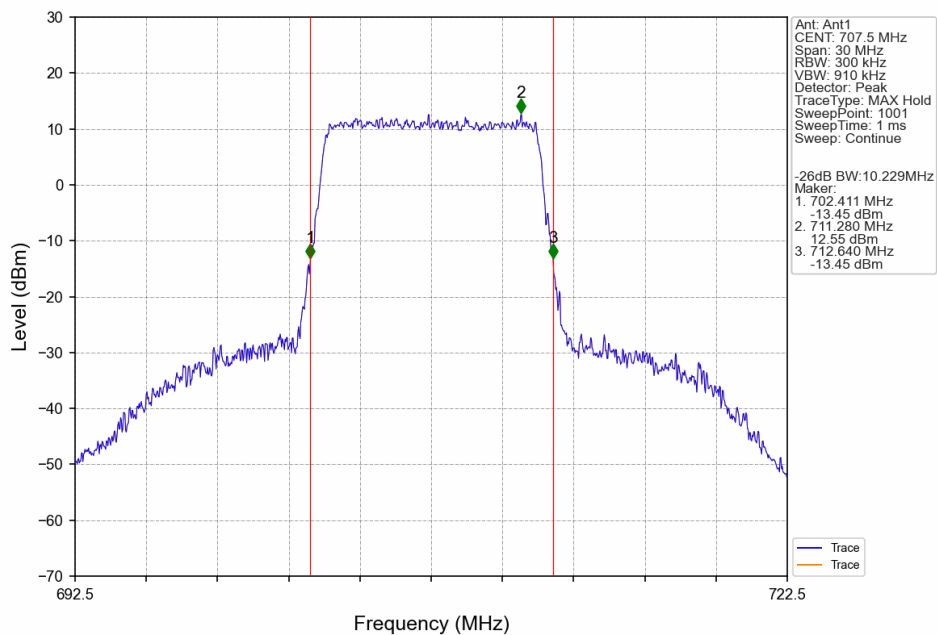
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



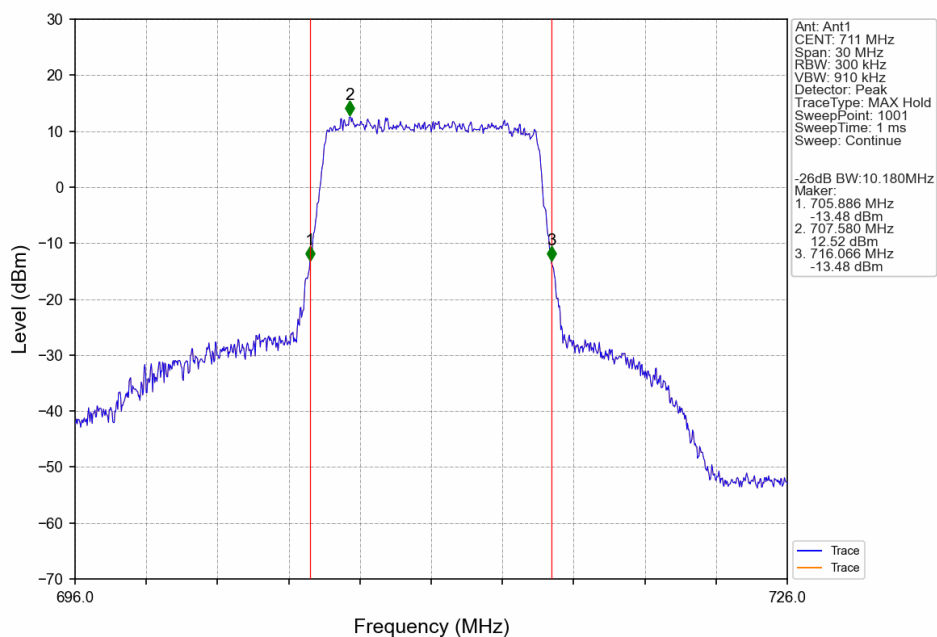
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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



Band12 10MHz 16QAM HCH 711MHz RB 50 0 NTN



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	5.24	<=13	Pass
	707.5	6	0	5.32	<=13	Pass
	715.3	6	0	4.77	<=13	Pass
16QAM	699.7	6	0	6.00	<=13	Pass
	707.5	6	0	6.15	<=13	Pass
	715.3	6	0	5.61	<=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	5.31	<=13	Pass
	707.5	15	0	5.36	<=13	Pass
	714.5	15	0	5.18	<=13	Pass
16QAM	700.5	15	0	6.08	<=13	Pass
	707.5	15	0	6.17	<=13	Pass
	714.5	15	0	6.00	<=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	5.51	<=13	Pass
	707.5	25	0	5.59	<=13	Pass
	713.5	25	0	5.45	<=13	Pass
16QAM	701.5	25	0	6.21	<=13	Pass
	707.5	25	0	6.24	<=13	Pass
	713.5	25	0	6.12	<=13	Pass

5.1.4 B12_10MHz

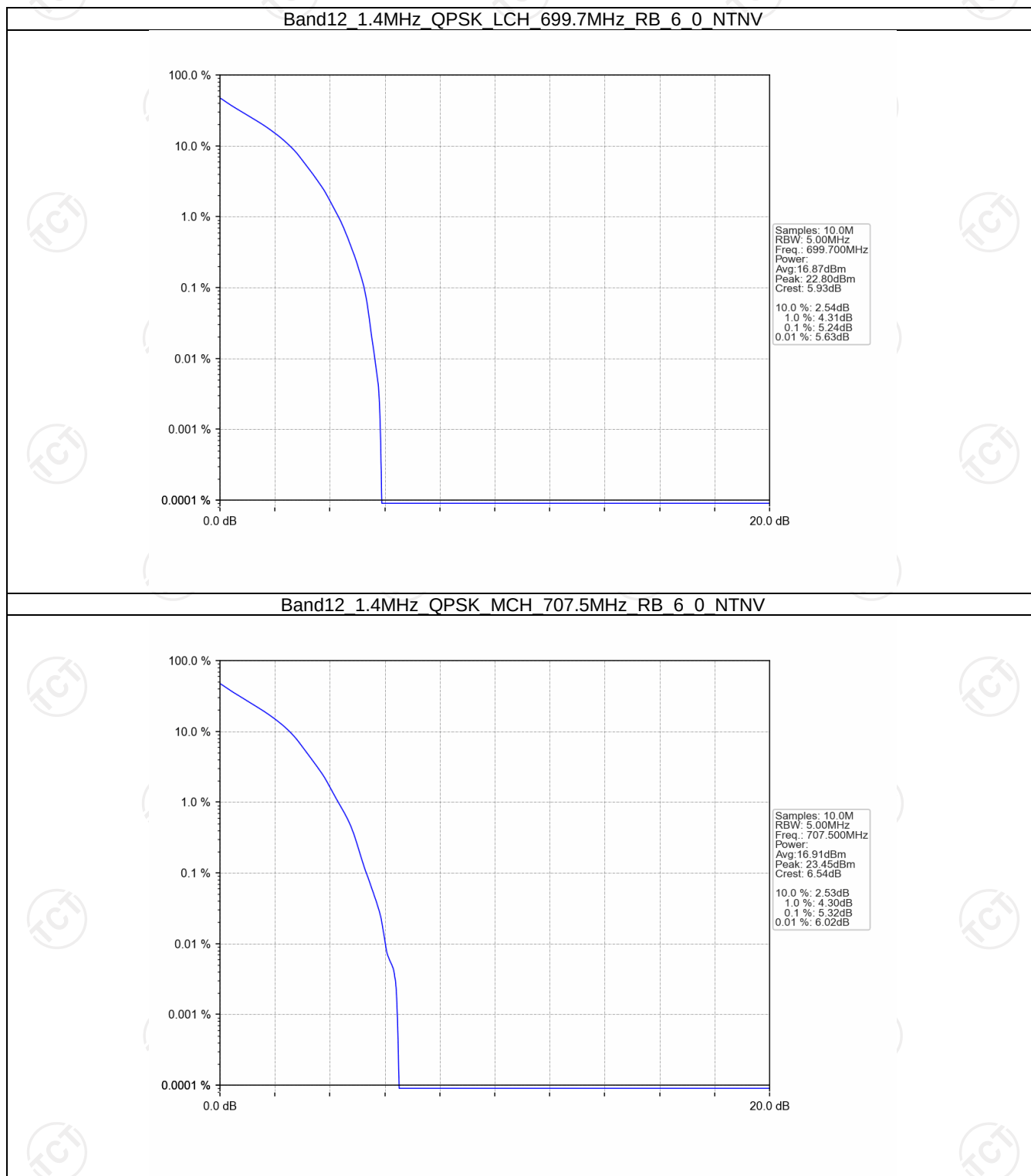
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.52	<=13	Pass
	707.5	50	0	5.59	<=13	Pass
	711	50	0	5.47	<=13	Pass
16QAM	704	50	0	6.25	<=13	Pass
	707.5	50	0	6.32	<=13	Pass

	711	50	0	6.19	<=13	Pass
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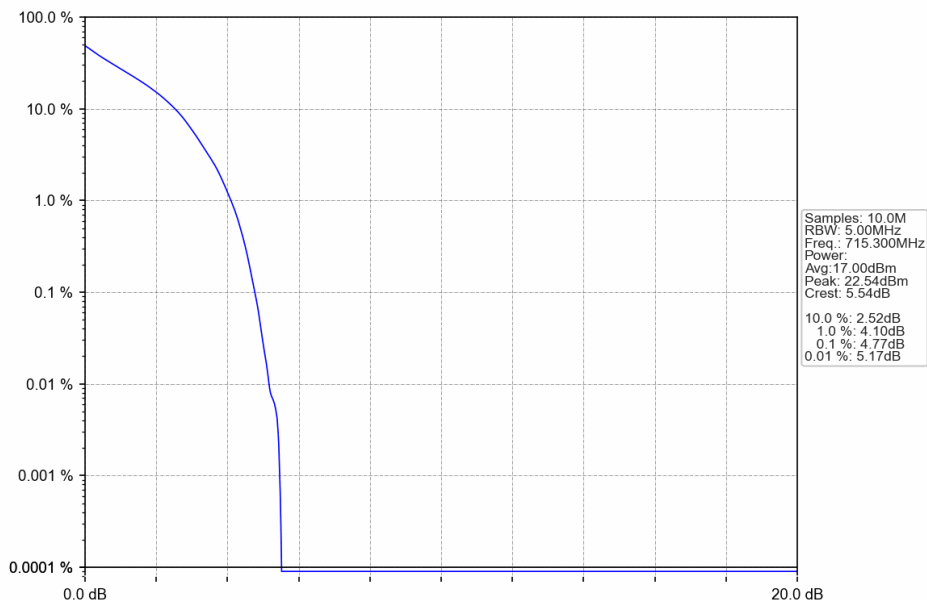


5.2 Test Graph

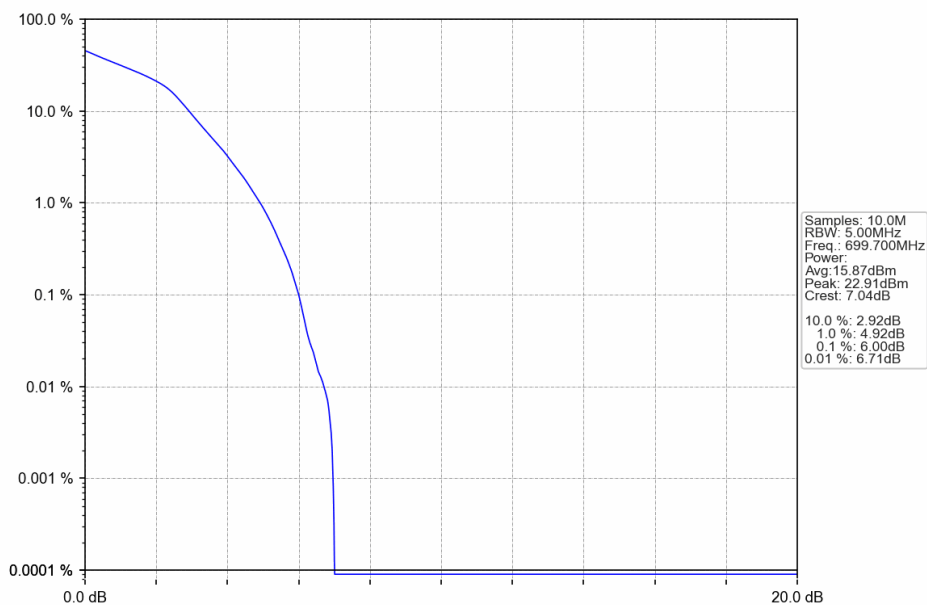
5.2.1 B12_1.4MHz



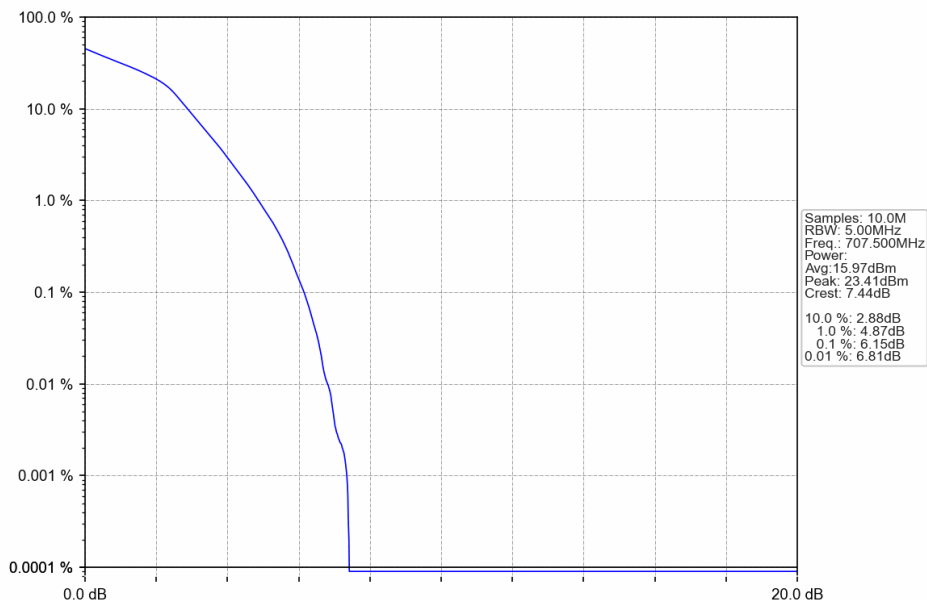
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



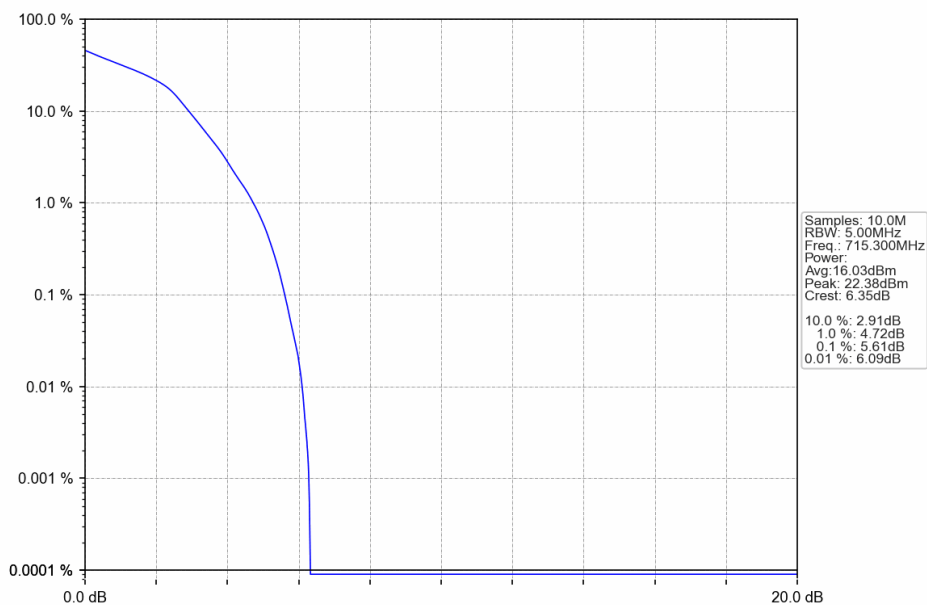
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



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



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



5.2.2 B12_3MHz

