

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	22.87	-6.53	14.19	<=34.77	Pass	
			7	22.87	-6.53	14.19	<=34.77	Pass	
			14	22.85	-6.53	14.17	<=34.77	Pass	
		8	0	21.89	-6.53	13.21	<=34.77	Pass	
			4	21.87	-6.53	13.19	<=34.77	Pass	
			7	21.87	-6.53	13.19	<=34.77	Pass	
		15	0	21.88	-6.53	13.20	<=34.77	Pass	
		707.5	1	0	22.76	-6.53	14.08	<=34.77	Pass
				7	22.78	-6.53	14.10	<=34.77	Pass
	14			22.71	-6.53	14.03	<=34.77	Pass	
	8		0	21.80	-6.53	13.12	<=34.77	Pass	
			4	21.82	-6.53	13.14	<=34.77	Pass	
			7	21.79	-6.53	13.11	<=34.77	Pass	
	714.5	1	0	21.78	-6.53	13.10	<=34.77	Pass	
			7	22.82	-6.53	14.14	<=34.77	Pass	
			14	22.83	-6.53	14.15	<=34.77	Pass	
		8	0	22.77	-6.53	14.09	<=34.77	Pass	
			7	21.75	-6.53	13.07	<=34.77	Pass	
			4	21.73	-6.53	13.05	<=34.77	Pass	
		7	21.74	-6.53	13.06	<=34.77	Pass		
			15	0	21.75	-6.53	13.07	<=34.77	Pass
7				21.75	-6.53	13.07	<=34.77	Pass	
16QAM	700.5	1		0	21.94	-6.53	13.26	<=34.77	Pass
			7	21.95	-6.53	13.27	<=34.77	Pass	
			14	21.89	-6.53	13.21	<=34.77	Pass	
		8	0	20.95	-6.53	12.27	<=34.77	Pass	
			4	20.92	-6.53	12.24	<=34.77	Pass	
			7	20.93	-6.53	12.25	<=34.77	Pass	
		15	0	20.91	-6.53	12.23	<=34.77	Pass	
	707.5	1	0	22.04	-6.53	13.36	<=34.77	Pass	
			7	22.07	-6.53	13.39	<=34.77	Pass	
			14	22.00	-6.53	13.32	<=34.77	Pass	
		8	0	20.76	-6.53	12.08	<=34.77	Pass	
			4	20.80	-6.53	12.12	<=34.77	Pass	
			7	20.74	-6.53	12.06	<=34.77	Pass	
	714.5	1	0	20.73	-6.53	12.05	<=34.77	Pass	
			7	22.29	-6.53	13.61	<=34.77	Pass	
			14	22.26	-6.53	13.58	<=34.77	Pass	
		8	0	22.28	-6.53	13.60	<=34.77	Pass	
			4	20.99	-6.53	12.31	<=34.77	Pass	
			7	20.96	-6.53	12.28	<=34.77	Pass	
		15	0	20.95	-6.53	12.27	<=34.77	Pass	
			7	20.86	-6.53	12.18	<=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	22.94	-6.53	14.26	<=34.77	Pass
			13	22.90	-6.53	14.22	<=34.77	Pass
			24	22.97	-6.53	14.29	<=34.77	Pass
		12	0	21.89	-6.53	13.21	<=34.77	Pass
			6	21.88	-6.53	13.20	<=34.77	Pass
			13	21.90	-6.53	13.22	<=34.77	Pass

		25	0	21.86	-6.53	13.18	<=34.77	Pass
	707.5	1	0	22.77	-6.53	14.09	<=34.77	Pass
			13	22.82	-6.53	14.14	<=34.77	Pass
			24	22.83	-6.53	14.15	<=34.77	Pass
			0	21.81	-6.53	13.13	<=34.77	Pass
		12	6	21.85	-6.53	13.17	<=34.77	Pass
			13	21.81	-6.53	13.13	<=34.77	Pass
			25	0	21.83	-6.53	13.15	<=34.77
	713.5	1	0	22.93	-6.53	14.25	<=34.77	Pass
			13	22.95	-6.53	14.27	<=34.77	Pass
			24	22.96	-6.53	14.28	<=34.77	Pass
		12	0	21.81	-6.53	13.13	<=34.77	Pass
			6	21.78	-6.53	13.10	<=34.77	Pass
			13	21.70	-6.53	13.02	<=34.77	Pass
		25	0	21.77	-6.53	13.09	<=34.77	Pass
	16QAM	701.5	1	0	22.01	-6.53	13.33	<=34.77
13				21.97	-6.53	13.29	<=34.77	Pass
24				22.06	-6.53	13.38	<=34.77	Pass
12			0	20.84	-6.53	12.16	<=34.77	Pass
			6	20.84	-6.53	12.16	<=34.77	Pass
			13	20.86	-6.53	12.18	<=34.77	Pass
25			0	20.90	-6.53	12.22	<=34.77	Pass
707.5		1	0	22.06	-6.53	13.38	<=34.77	Pass
			13	22.10	-6.53	13.42	<=34.77	Pass
			24	22.06	-6.53	13.38	<=34.77	Pass
		12	0	20.85	-6.53	12.17	<=34.77	Pass
			6	20.87	-6.53	12.19	<=34.77	Pass
			13	20.82	-6.53	12.14	<=34.77	Pass
25		0	20.80	-6.53	12.12	<=34.77	Pass	
713.5		1	0	21.61	-6.53	12.93	<=34.77	Pass
			13	21.61	-6.53	12.93	<=34.77	Pass
			24	21.67	-6.53	12.99	<=34.77	Pass
		12	0	20.81	-6.53	12.13	<=34.77	Pass
			6	20.79	-6.53	12.11	<=34.77	Pass
			13	20.68	-6.53	12.00	<=34.77	Pass
	25	0	20.79	-6.53	12.11	<=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	22.86	-6.53	14.18	<=34.77	Pass
			25	22.86	-6.53	14.18	<=34.77	Pass
			49	22.85	-6.53	14.17	<=34.77	Pass
		25	0	21.76	-6.53	13.08	<=34.77	Pass
			13	21.82	-6.53	13.14	<=34.77	Pass
			25	21.87	-6.53	13.19	<=34.77	Pass
		50	0	21.85	-6.53	13.17	<=34.77	Pass
	707.5	1	0	22.79	-6.53	14.11	<=34.77	Pass
			25	22.81	-6.53	14.13	<=34.77	Pass
			49	22.76	-6.53	14.08	<=34.77	Pass
		25	0	21.89	-6.53	13.21	<=34.77	Pass
			13	21.82	-6.53	13.14	<=34.77	Pass
			25	21.86	-6.53	13.18	<=34.77	Pass
		50	0	21.86	-6.53	13.18	<=34.77	Pass

	711	1	0	22.82	-6.53	14.14	<=34.77	Pass		
			25	22.80	-6.53	14.12	<=34.77	Pass		
			49	22.83	-6.53	14.15	<=34.77	Pass		
		25	0	21.85	-6.53	13.17	<=34.77	Pass		
			13	21.82	-6.53	13.14	<=34.77	Pass		
			25	21.74	-6.53	13.06	<=34.77	Pass		
		50	0	21.85	-6.53	13.17	<=34.77	Pass		
		16QAM	704	1	0	21.90	-6.53	13.22	<=34.77	Pass
					25	21.88	-6.53	13.20	<=34.77	Pass
49	21.87				-6.53	13.19	<=34.77	Pass		
25	0			20.86	-6.53	12.18	<=34.77	Pass		
	13			20.92	-6.53	12.24	<=34.77	Pass		
	25			20.97	-6.53	12.29	<=34.77	Pass		
50	0			20.82	-6.53	12.14	<=34.77	Pass		
707.5	1			0	21.99	-6.53	13.31	<=34.77	Pass	
				25	22.01	-6.53	13.33	<=34.77	Pass	
			49	21.96	-6.53	13.28	<=34.77	Pass		
	25		0	20.88	-6.53	12.20	<=34.77	Pass		
			13	20.84	-6.53	12.16	<=34.77	Pass		
			25	20.82	-6.53	12.14	<=34.77	Pass		
	50		0	20.83	-6.53	12.15	<=34.77	Pass		
	711		1	0	22.32	-6.53	13.64	<=34.77	Pass	
				25	22.25	-6.53	13.57	<=34.77	Pass	
49				22.26	-6.53	13.58	<=34.77	Pass		
25			0	20.89	-6.53	12.21	<=34.77	Pass		
		13	20.88	-6.53	12.20	<=34.77	Pass			
		25	20.80	-6.53	12.12	<=34.77	Pass			
50		0	20.84	-6.53	12.16	<=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	3.033	0.0043	-2.5 to 2.5	Pass
					3.85	3.304	0.0047	-2.5 to 2.5	Pass
					4.43	-1.473	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	4.220	0.0060	-2.5 to 2.5	Pass
				-20	3.85	-1.502	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-12.016	-0.0172	-2.5 to 2.5	Pass
				0	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-2.861	-0.0041	-2.5 to 2.5	Pass
				30	3.85	1.874	0.0027	-2.5 to 2.5	Pass
				40	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-3.004	-0.0043	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	1.831	0.0026	-2.5 to 2.5	Pass
					3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
					4.43	0.029	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-2.232	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-1.817	-0.0026	-2.5 to 2.5	Pass

				0	3.85	0.329	0.0005	-2.5 to 2.5	Pass
				10	3.85	-3.448	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
				40	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	5.765	0.0081	-2.5 to 2.5	Pass
					3.85	-3.505	-0.0049	-2.5 to 2.5	Pass
					4.43	1.731	0.0024	-2.5 to 2.5	Pass
				-30	3.85	-3.204	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-4.005	-0.0056	-2.5 to 2.5	Pass
				30	3.85	1.459	0.0020	-2.5 to 2.5	Pass
				40	3.85	2.317	0.0032	-2.5 to 2.5	Pass
				50	3.85	-3.576	-0.0050	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-2.003	-0.0029	-2.5 to 2.5	Pass
					3.85	1.802	0.0026	-2.5 to 2.5	Pass
					4.43	4.978	0.0071	-2.5 to 2.5	Pass
				-30	3.85	-1.502	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	0.887	0.0013	-2.5 to 2.5	Pass
				-10	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-4.177	-0.0060	-2.5 to 2.5	Pass
				10	3.85	-2.632	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-5.093	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-3.419	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-2.804	-0.0040	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-2.389	-0.0034	-2.5 to 2.5	Pass
					3.85	-8.039	-0.0114	-2.5 to 2.5	Pass
					4.43	-2.532	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-3.433	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	4.992	0.0071	-2.5 to 2.5	Pass
				0	3.85	-4.706	-0.0067	-2.5 to 2.5	Pass
				10	3.85	1.774	0.0025	-2.5 to 2.5	Pass
				30	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-6.480	-0.0092	-2.5 to 2.5	Pass
				50	3.85	-5.651	-0.0080	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-0.186	-0.0003	-2.5 to 2.5	Pass
					3.85	4.077	0.0057	-2.5 to 2.5	Pass
					4.43	1.116	0.0016	-2.5 to 2.5	Pass
				-30	3.85	-3.719	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-5.937	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-1.602	-0.0022	-2.5 to 2.5	Pass
				30	3.85	4.764	0.0067	-2.5 to 2.5	Pass
				40	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				50	3.85	2.103	0.0029	-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	1.330	0.0019	-2.5 to 2.5	Pass
					3.85	-3.419	-0.0049	-2.5 to 2.5	Pass

					4.43	-5.794	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-1.602	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				0	3.85	1.574	0.0022	-2.5 to 2.5	Pass
				10	3.85	-3.161	-0.0045	-2.5 to 2.5	Pass
				30	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				40	3.85	-4.478	-0.0064	-2.5 to 2.5	Pass
				50	3.85	-1.159	-0.0017	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	3.862	0.0055	-2.5 to 2.5	Pass
					3.85	-9.298	-0.0131	-2.5 to 2.5	Pass
					4.43	-2.661	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-3.648	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-7.682	-0.0109	-2.5 to 2.5	Pass
				0	3.85	-2.532	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-3.505	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				40	3.85	2.704	0.0038	-2.5 to 2.5	Pass
				50	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	2.489	0.0035	-2.5 to 2.5	Pass
					3.85	-2.861	-0.0040	-2.5 to 2.5	Pass
					4.43	-2.661	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-1.173	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	3.233	0.0045	-2.5 to 2.5	Pass
				-10	3.85	-2.031	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-3.948	-0.0055	-2.5 to 2.5	Pass
				10	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				40	3.85	3.705	0.0052	-2.5 to 2.5	Pass
				50	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-2.918	-0.0042	-2.5 to 2.5	Pass
					3.85	-2.289	-0.0033	-2.5 to 2.5	Pass
					4.43	3.705	0.0053	-2.5 to 2.5	Pass
				-30	3.85	1.216	0.0017	-2.5 to 2.5	Pass
				-20	3.85	-6.251	-0.0089	-2.5 to 2.5	Pass
				-10	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				0	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-1.431	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-3.505	-0.0050	-2.5 to 2.5	Pass
				50	3.85	-6.967	-0.0099	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	1.345	0.0019	-2.5 to 2.5	Pass
					3.85	-2.775	-0.0039	-2.5 to 2.5	Pass
					4.43	-2.561	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass
				0	3.85	2.217	0.0031	-2.5 to 2.5	Pass
				10	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass
				30	3.85	1.016	0.0014	-2.5 to 2.5	Pass
				40	3.85	1.202	0.0017	-2.5 to 2.5	Pass
				50	3.85	-3.161	-0.0045	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.830	-0.0012	-2.5 to 2.5	Pass
					3.85	-3.119	-0.0044	-2.5 to 2.5	Pass
					4.43	3.362	0.0047	-2.5 to 2.5	Pass
				-30	3.85	-2.432	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-4.134	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	1.216	0.0017	-2.5 to 2.5	Pass

				0	3.85	3.662	0.0051	-2.5 to 2.5	Pass
				10	3.85	-2.689	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.658	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.930	-0.0013	-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	3.848	0.0055	-2.5 to 2.5	Pass
					3.85	1.845	0.0026	-2.5 to 2.5	Pass
					4.43	1.473	0.0021	-2.5 to 2.5	Pass
				-30	3.85	0.529	0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.072	0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.044	0.0015	-2.5 to 2.5	Pass
				0	3.85	2.117	0.0030	-2.5 to 2.5	Pass
				10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	3.462	0.0049	-2.5 to 2.5	Pass
					3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.801	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	1.044	0.0015	-2.5 to 2.5	Pass
				-20	3.85	1.974	0.0028	-2.5 to 2.5	Pass
				-10	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-2.375	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				40	3.85	1.416	0.0020	-2.5 to 2.5	Pass
				50	3.85	0.358	0.0005	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	1.788	0.0025	-2.5 to 2.5	Pass
					3.85	-2.604	-0.0036	-2.5 to 2.5	Pass
					4.43	1.373	0.0019	-2.5 to 2.5	Pass
				-30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-5.293	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-2.375	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-5.193	-0.0073	-2.5 to 2.5	Pass
				30	3.85	-2.446	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	1.459	0.0021	-2.5 to 2.5	Pass
					3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
					4.43	2.432	0.0035	-2.5 to 2.5	Pass
				-30	3.85	1.073	0.0015	-2.5 to 2.5	Pass
				-20	3.85	-2.074	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	0.815	0.0012	-2.5 to 2.5	Pass
				0	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-5.193	-0.0074	-2.5 to 2.5	Pass
				30	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
				40	3.85	1.373	0.0020	-2.5 to 2.5	Pass
				50	3.85	-1.302	-0.0019	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-2.975	-0.0042	-2.5 to 2.5	Pass
					3.85	1.402	0.0020	-2.5 to 2.5	Pass

					4.43	-2.189	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	0.186	0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				-10	3.85	-1.931	-0.0027	-2.5 to 2.5	Pass
				0	3.85	0.815	0.0012	-2.5 to 2.5	Pass
				10	3.85	-3.676	-0.0052	-2.5 to 2.5	Pass
				30	3.85	2.131	0.0030	-2.5 to 2.5	Pass
				40	3.85	-1.574	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-2.918	-0.0041	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-4.392	-0.0062	-2.5 to 2.5	Pass
					3.85	-2.747	-0.0039	-2.5 to 2.5	Pass
					4.43	-2.589	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-3.991	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-5.565	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	0.772	0.0011	-2.5 to 2.5	Pass
				0	3.85	-4.535	-0.0064	-2.5 to 2.5	Pass
				10	3.85	1.731	0.0024	-2.5 to 2.5	Pass
				30	3.85	-4.263	-0.0060	-2.5 to 2.5	Pass
				40	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				50	3.85	4.492	0.0063	-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	-2.575	-0.0037	-2.5 to 2.5	Pass
					3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
					4.43	-2.518	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-3.633	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-2.103	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-1.674	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-2.532	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-4.148	-0.0059	-2.5 to 2.5	Pass
				40	3.85	-4.077	-0.0058	-2.5 to 2.5	Pass
	707.5	50	0	50	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass
				20	3.27	-2.189	-0.0031	-2.5 to 2.5	Pass
					3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
					4.43	-1.245	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-2.489	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	-1.760	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-3.119	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-2.761	-0.0039	-2.5 to 2.5	Pass
	711	50	0	40	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-1.345	-0.0019	-2.5 to 2.5	Pass
				20	3.27	-2.933	-0.0041	-2.5 to 2.5	Pass
					3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
					4.43	-0.429	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-2.160	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				30	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass

16QAM	704	50	0	40	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				50	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				20	3.27	-2.933	-0.0042	-2.5 to 2.5	Pass
					3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
					4.43	-3.605	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-4.206	-0.0060	-2.5 to 2.5	Pass
				-20	3.85	-2.217	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-1.388	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-1.516	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-2.890	-0.0041	-2.5 to 2.5	Pass
	707.5	50	0	30	3.85	-2.060	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
				20	3.27	-1.302	-0.0018	-2.5 to 2.5	Pass
					3.85	-2.389	-0.0034	-2.5 to 2.5	Pass
					4.43	-2.160	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				0	3.85	0.443	0.0006	-2.5 to 2.5	Pass
	711	50	0	10	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-2.418	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
				20	3.27	-2.317	-0.0033	-2.5 to 2.5	Pass
					3.85	-3.476	-0.0049	-2.5 to 2.5	Pass
					4.43	-2.103	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	0.930	0.0013	-2.5 to 2.5	Pass
				-20	3.85	0.701	0.0010	-2.5 to 2.5	Pass
				-10	3.85	0.358	0.0005	-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 / NTVN						
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

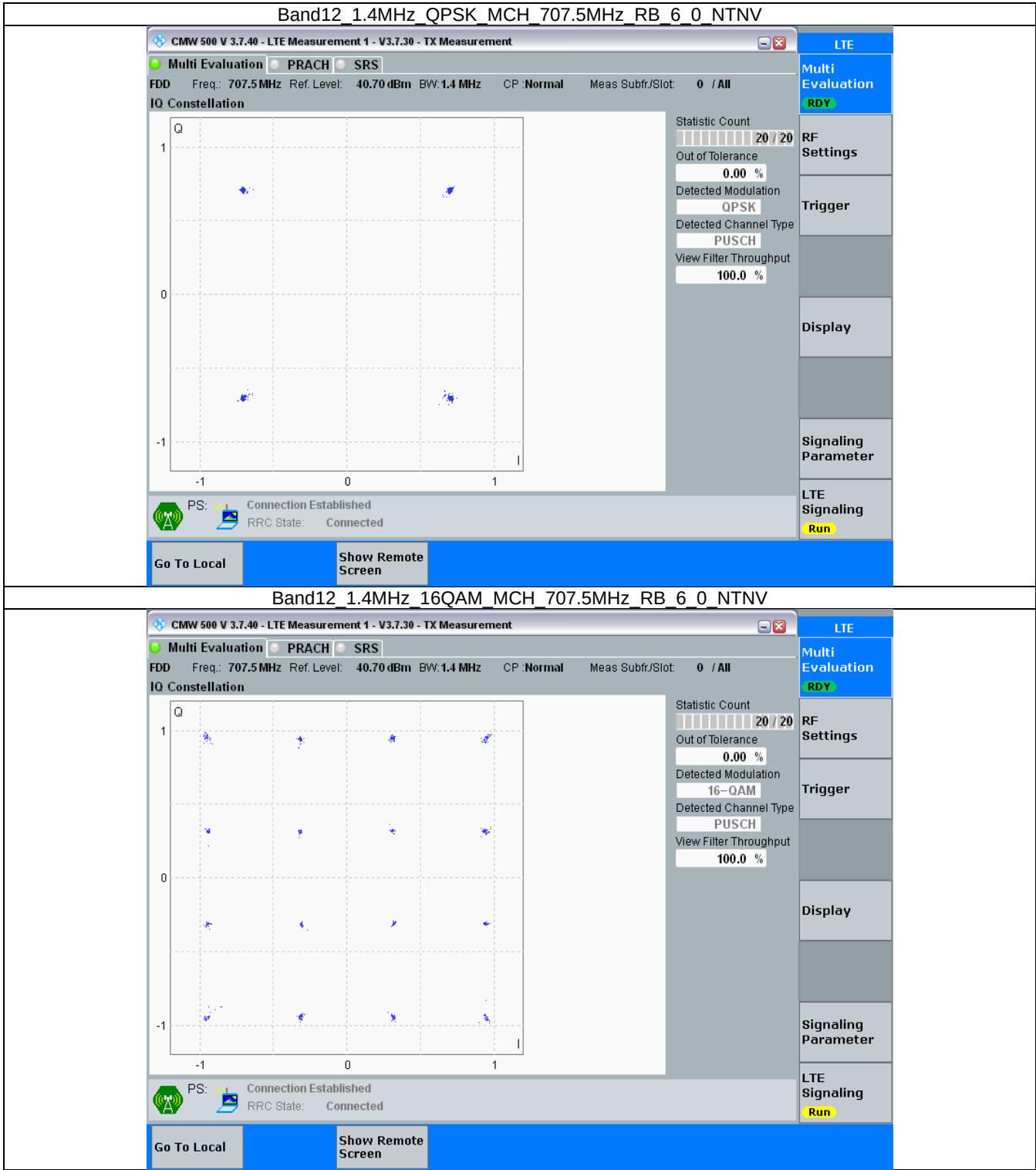
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

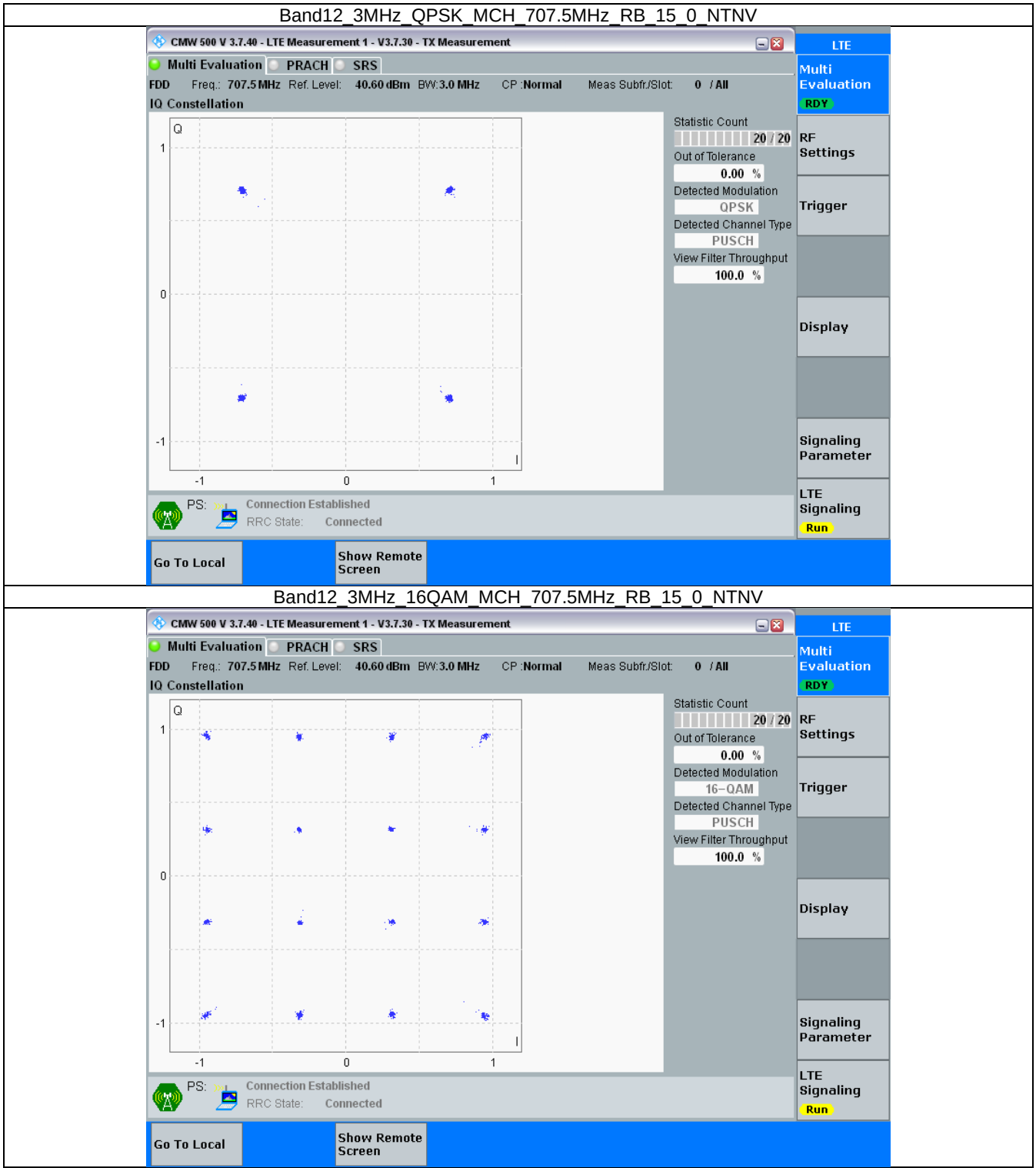
Band: 12 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

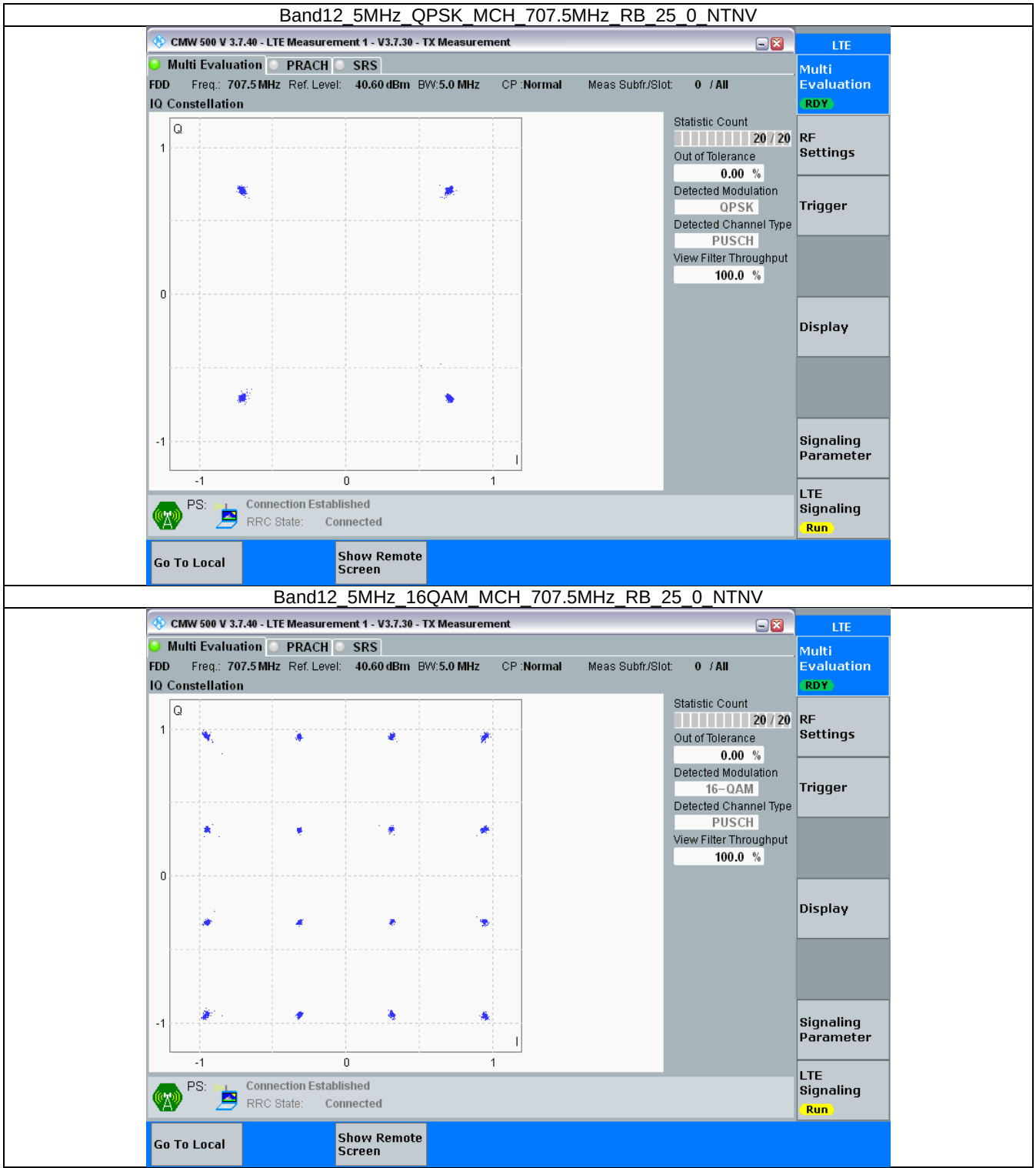
3.2.1 B12_1.4MHz



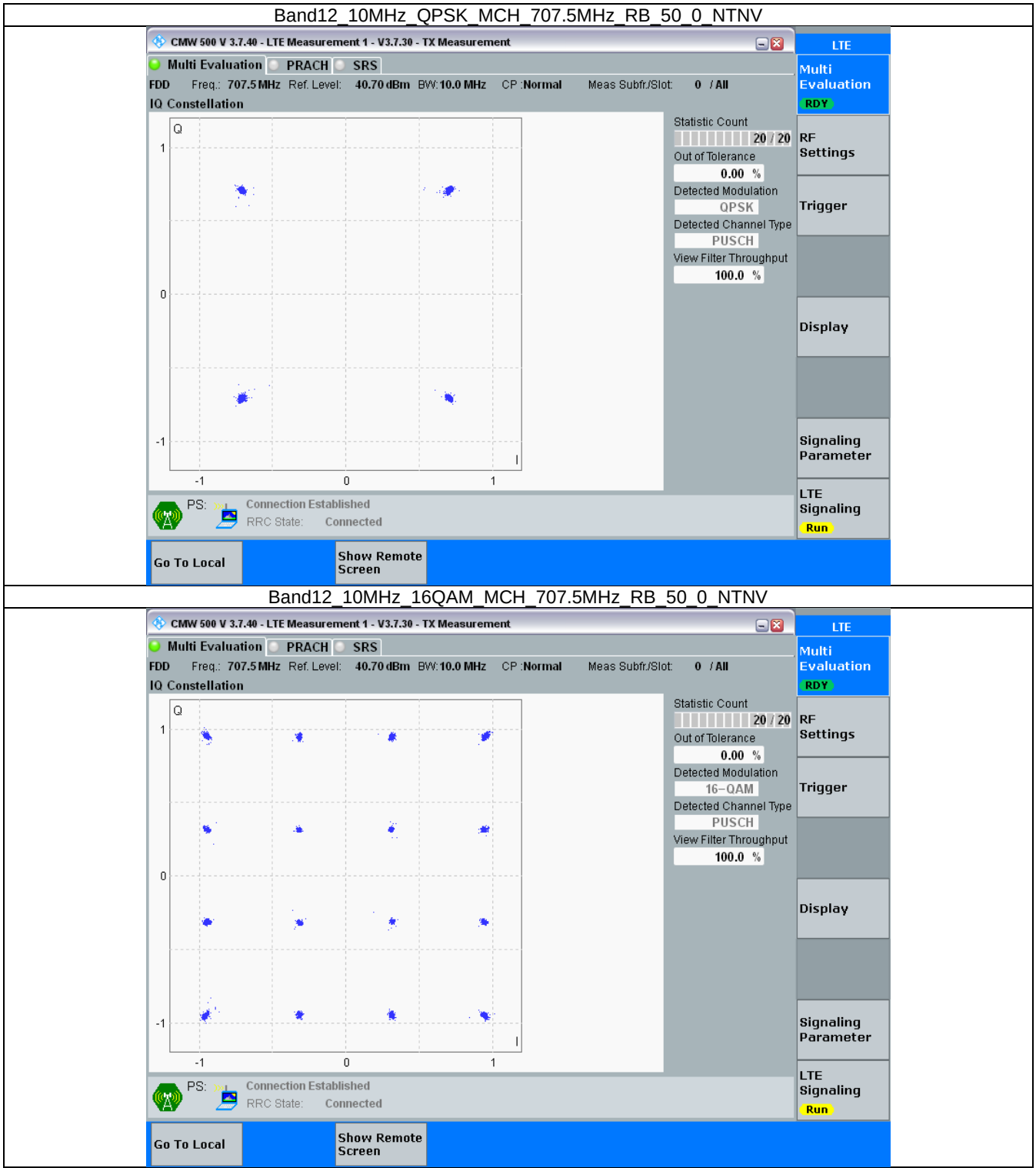
3.2.2 B12_3MHz



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	1.114	/	Pass
		707.5	6	0	1.127	/	Pass
		715.3	6	0	1.112	/	Pass
	16QAM	699.7	6	0	1.116	/	Pass
		707.5	6	0	1.115	/	Pass
		715.3	6	0	1.103	/	Pass
3	QPSK	700.5	15	0	2.732	/	Pass
		707.5	15	0	2.738	/	Pass
		714.5	15	0	2.735	/	Pass
	16QAM	700.5	15	0	2.727	/	Pass
		707.5	15	0	2.726	/	Pass
		714.5	15	0	2.727	/	Pass
5	QPSK	701.5	25	0	4.546	/	Pass
		707.5	25	0	4.544	/	Pass
		713.5	25	0	4.539	/	Pass
	16QAM	701.5	25	0	4.547	/	Pass
		707.5	25	0	4.561	/	Pass
		713.5	25	0	4.530	/	Pass
10	QPSK	704	50	0	9.074	/	Pass
		707.5	50	0	9.036	/	Pass
		711	50	0	9.026	/	Pass
	16QAM	704	50	0	9.047	/	Pass
		707.5	50	0	9.059	/	Pass
		711	50	0	9.050	/	Pass

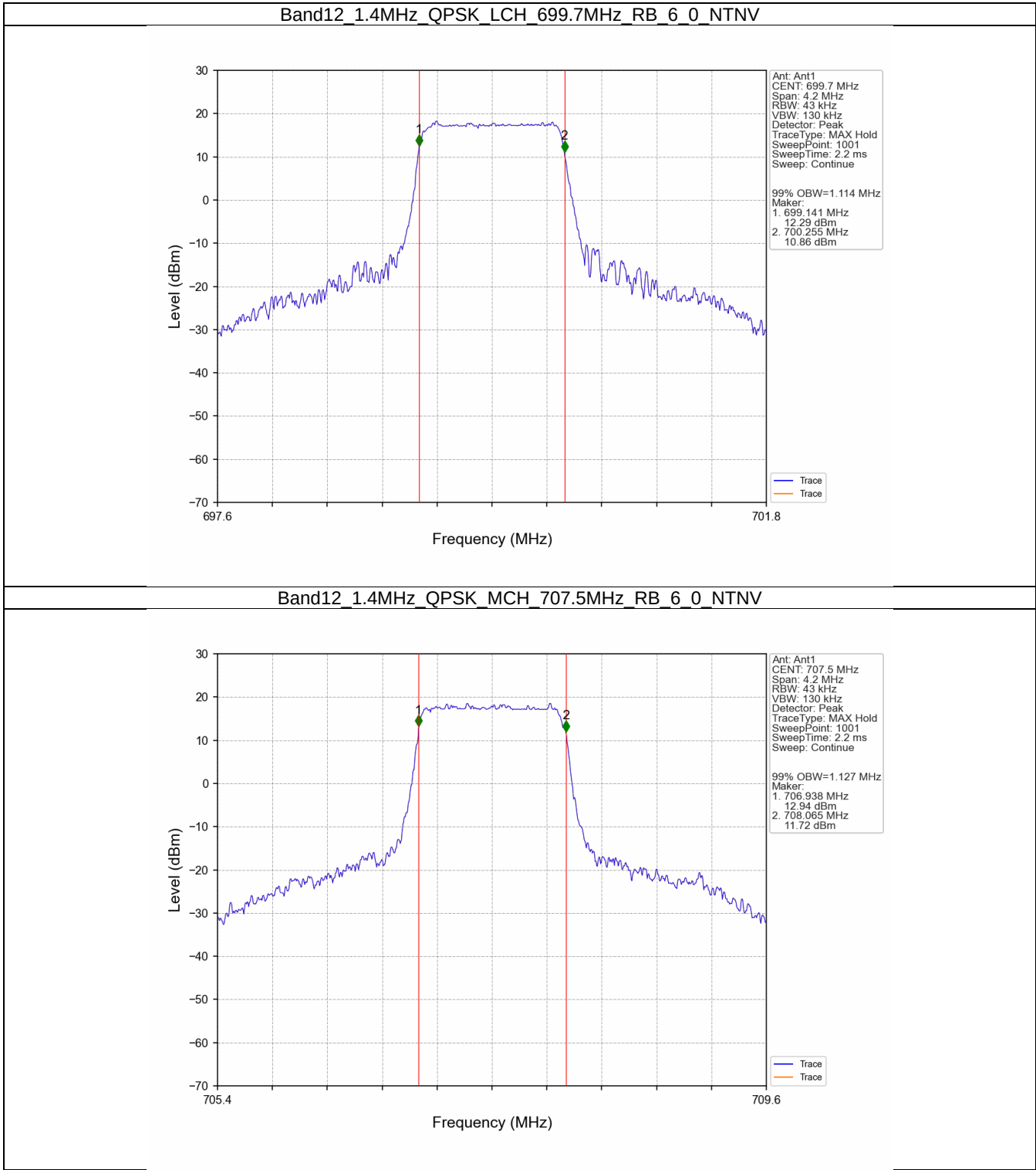
4.1.2 Band12_XDB

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	1.321	/	Pass
		707.5	6	0	1.315	/	Pass
		715.3	6	0	1.350	/	Pass
	16QAM	699.7	6	0	1.332	/	Pass
		707.5	6	0	1.332	/	Pass
		715.3	6	0	1.301	/	Pass
3	QPSK	700.5	15	0	3.010	/	Pass
		707.5	15	0	3.012	/	Pass
		714.5	15	0	3.010	/	Pass
	16QAM	700.5	15	0	3.017	/	Pass
		707.5	15	0	3.001	/	Pass
		714.5	15	0	2.994	/	Pass
5	QPSK	701.5	25	0	5.049	/	Pass
		707.5	25	0	5.028	/	Pass
		713.5	25	0	5.053	/	Pass

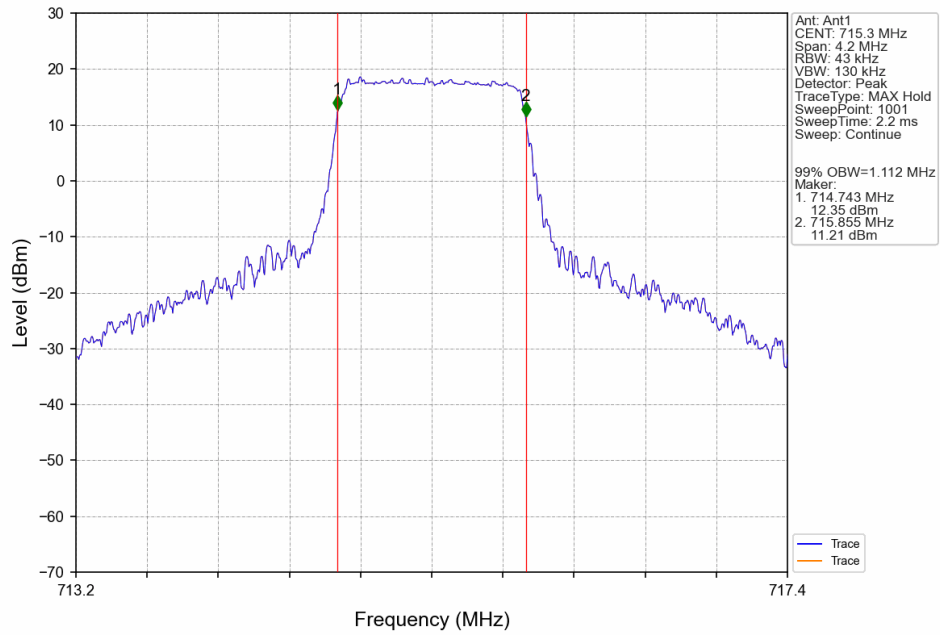
10	16QAM	701.5	25	0	5.084	/	Pass
		707.5	25	0	5.035	/	Pass
		713.5	25	0	5.014	/	Pass
	QPSK	704	50	0	9.916	/	Pass
		707.5	50	0	9.959	/	Pass
		711	50	0	9.985	/	Pass
	16QAM	704	50	0	9.991	/	Pass
		707.5	50	0	9.954	/	Pass
		711	50	0	9.971	/	Pass

4.2 Test Graph

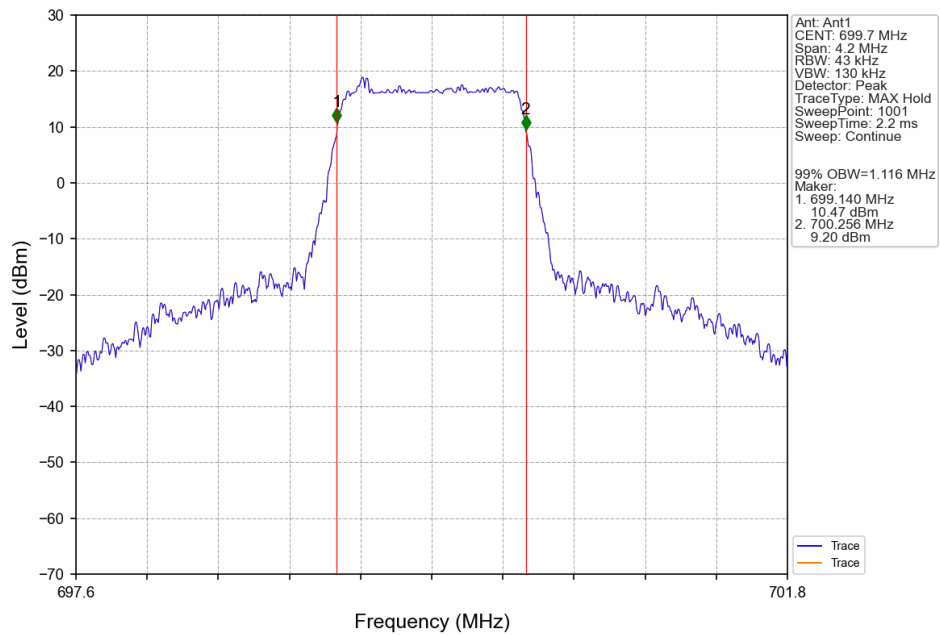
4.2.1 Band12_OBW



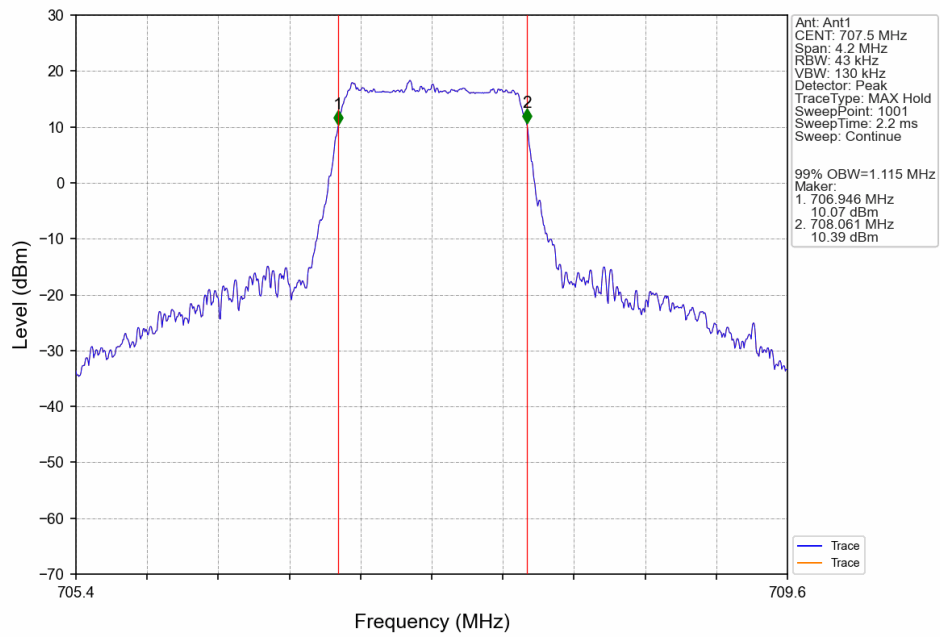
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



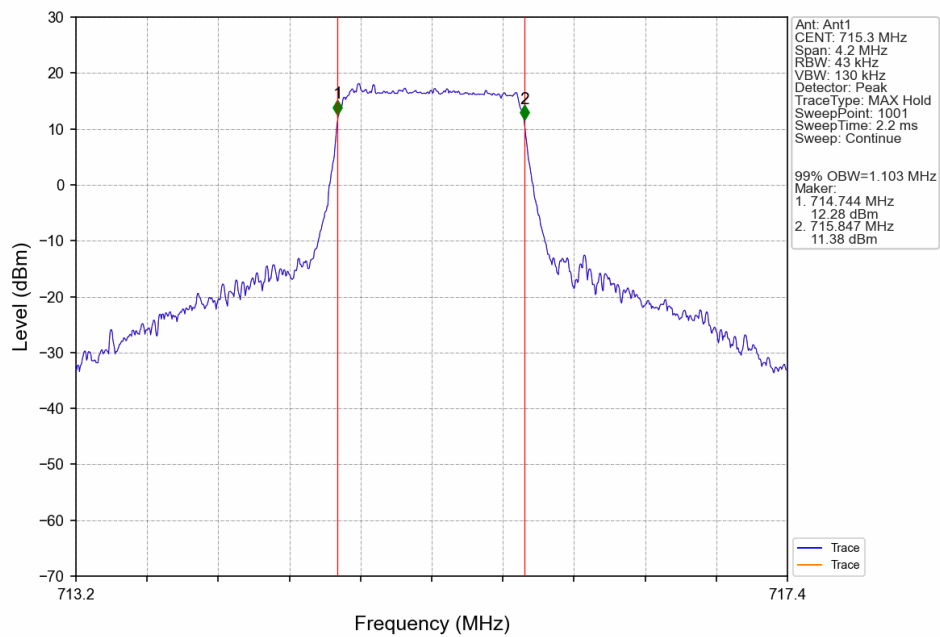
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



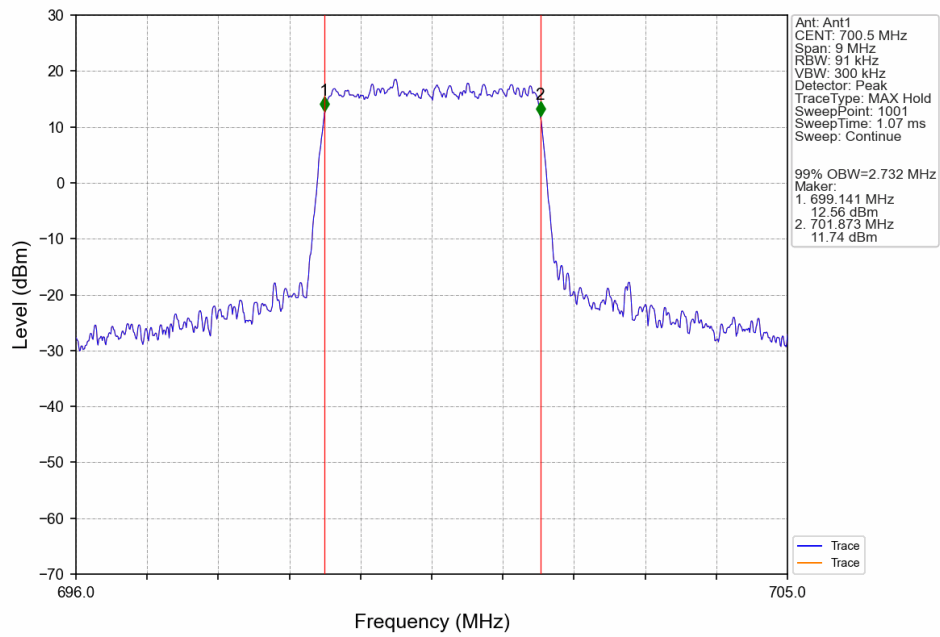
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



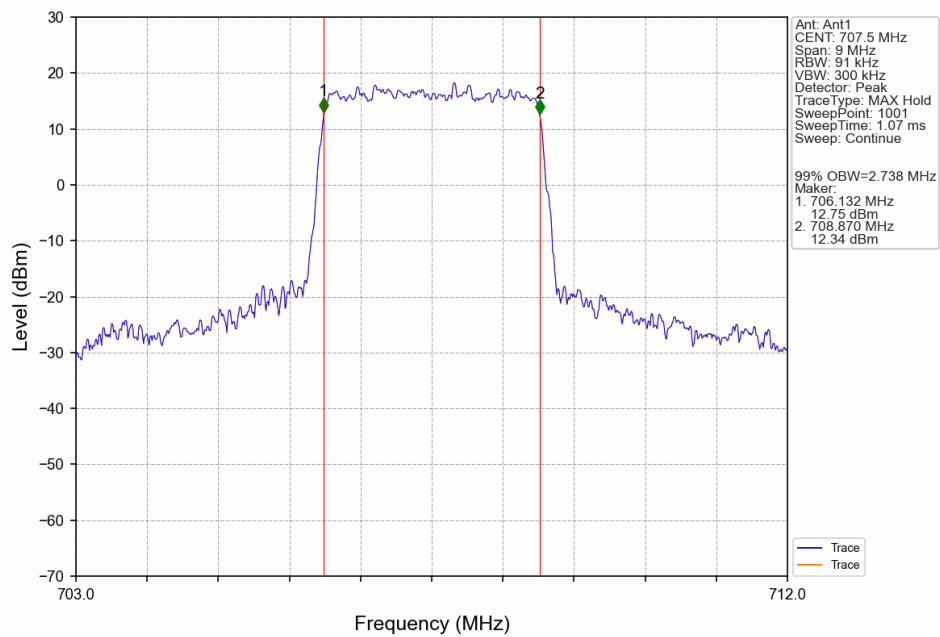
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



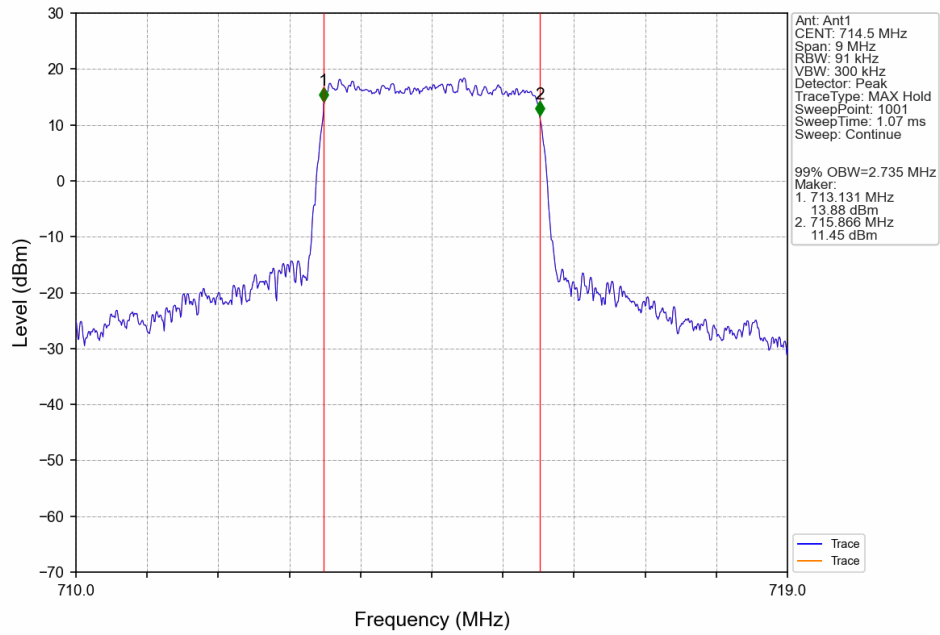
Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV



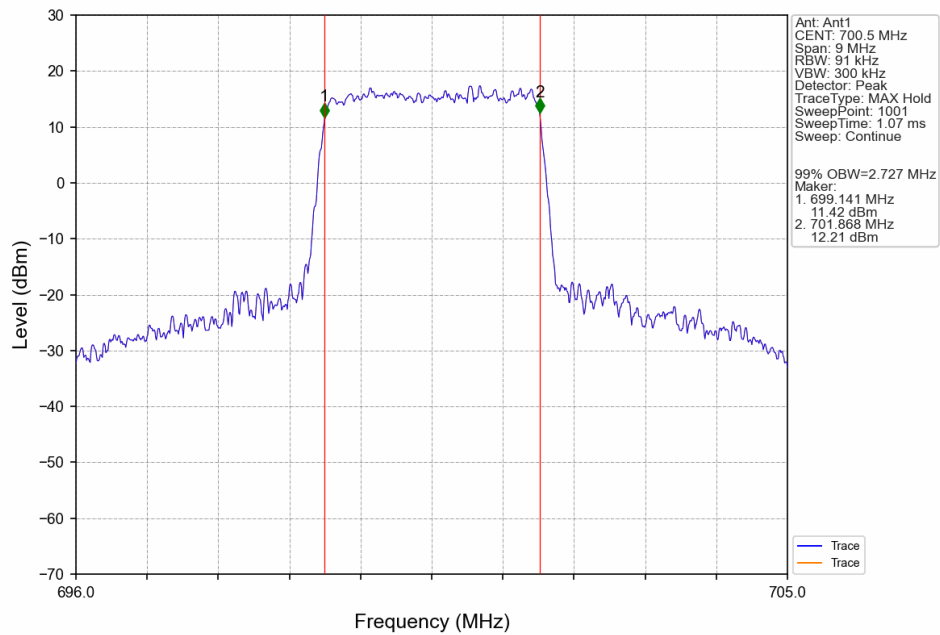
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



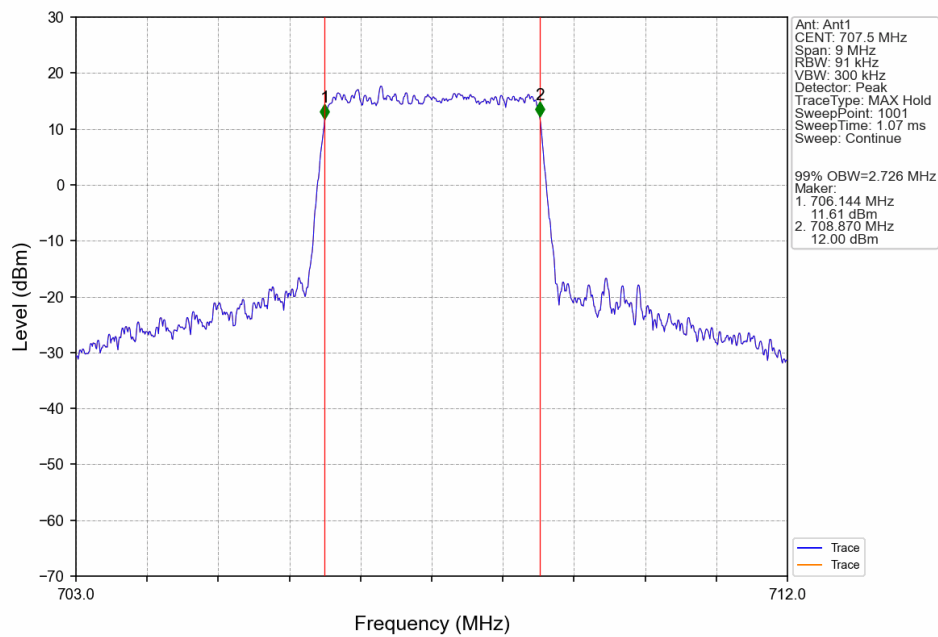
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



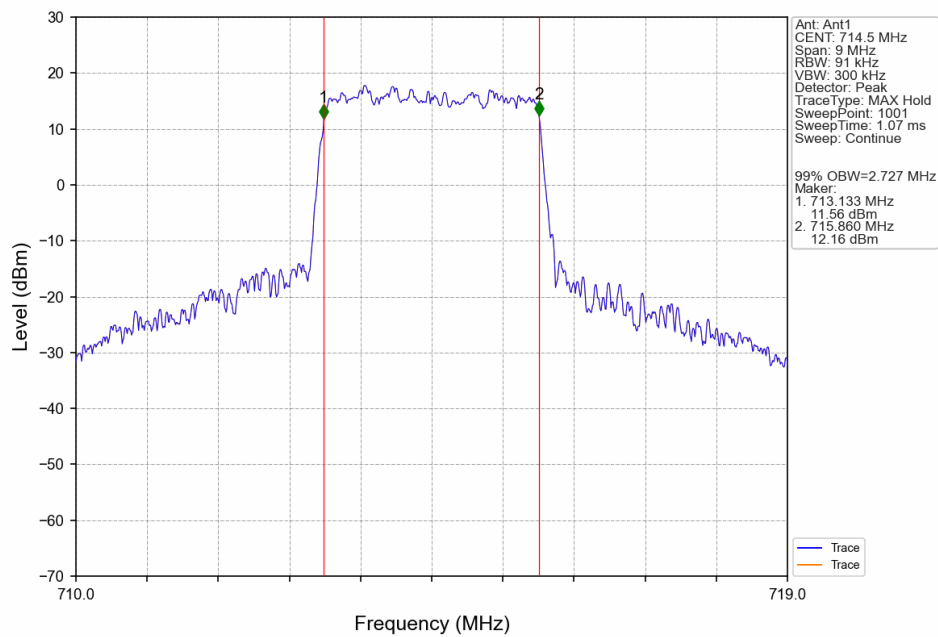
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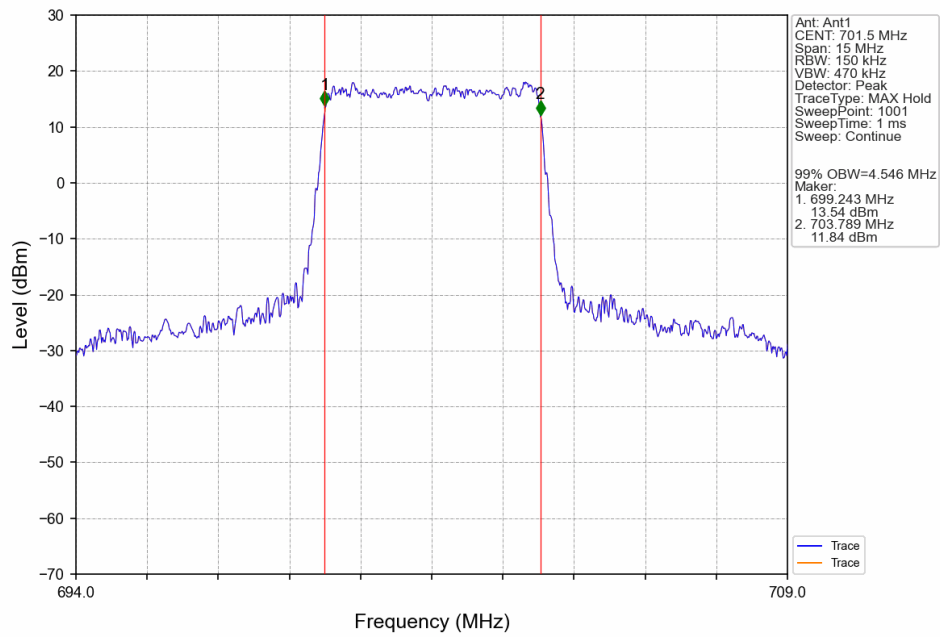
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



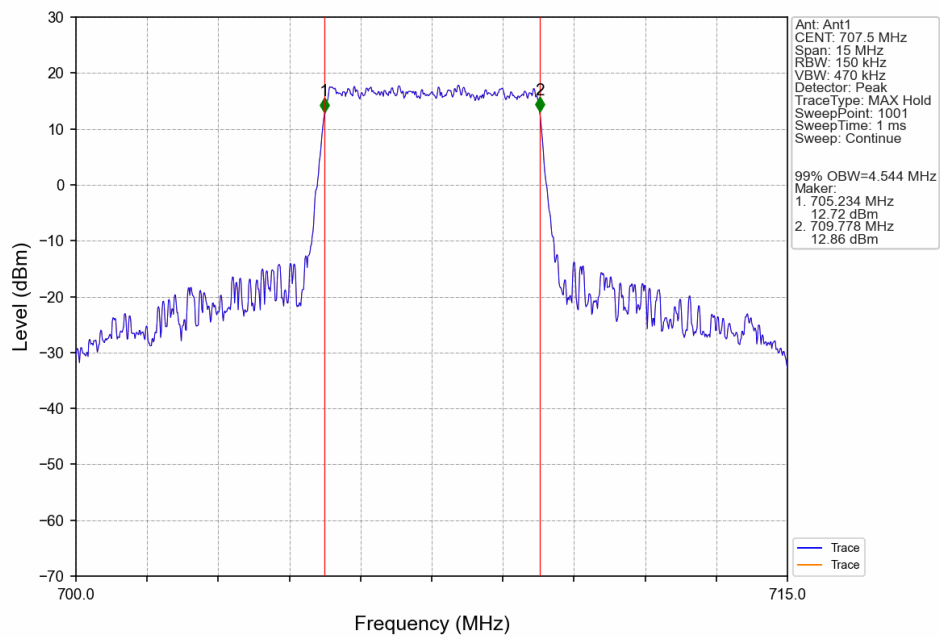
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



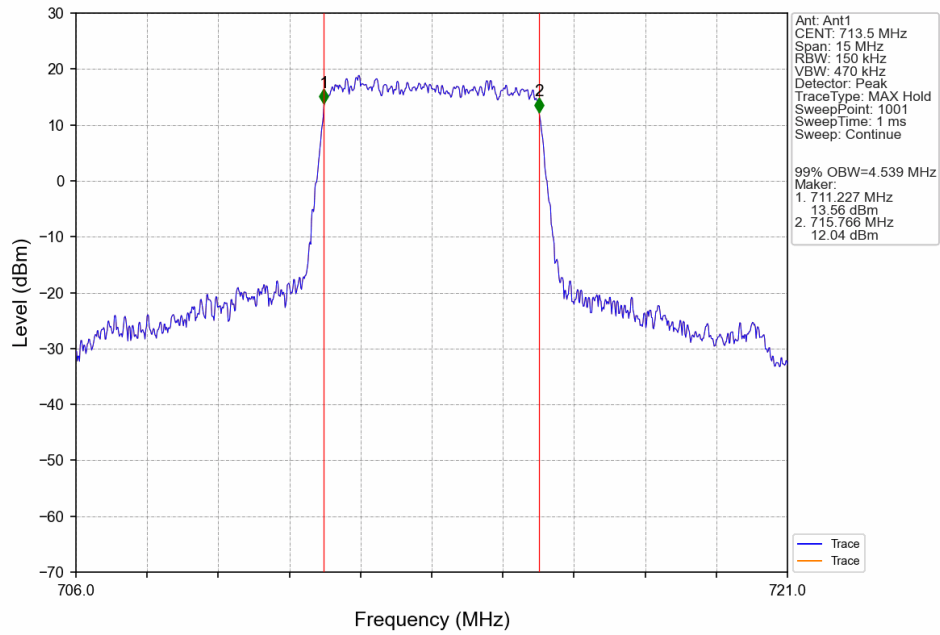
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



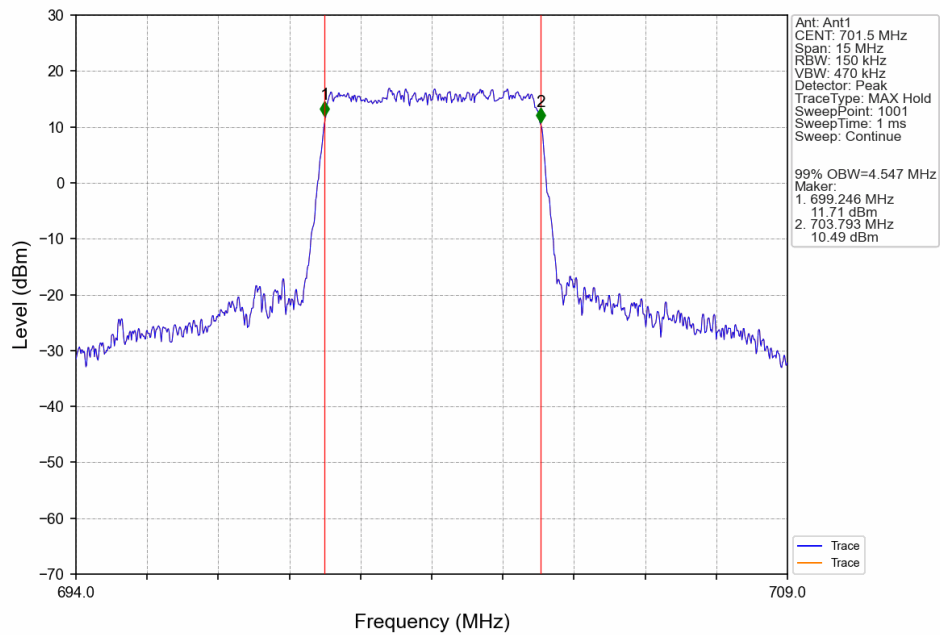
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTNV



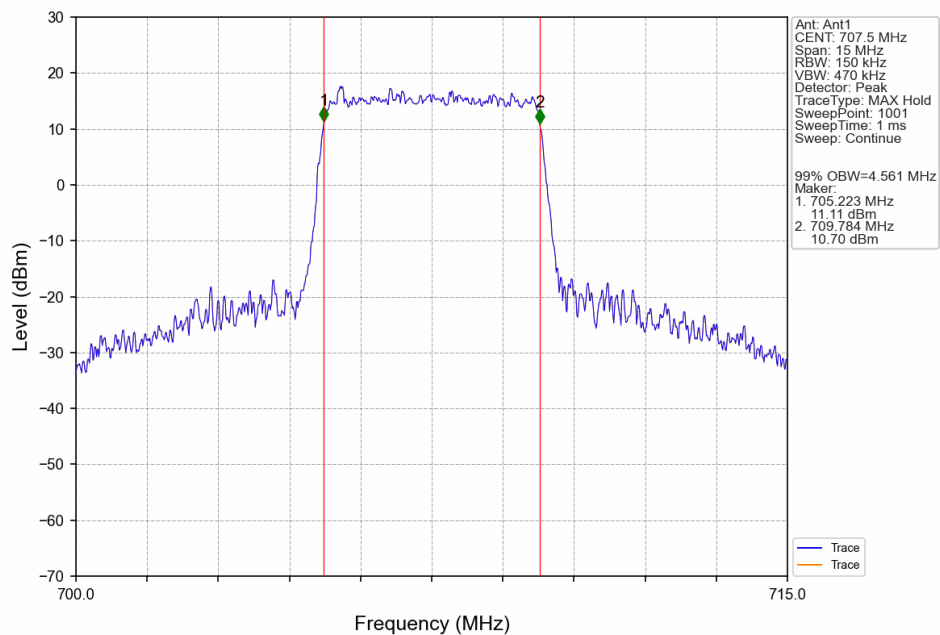
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTN



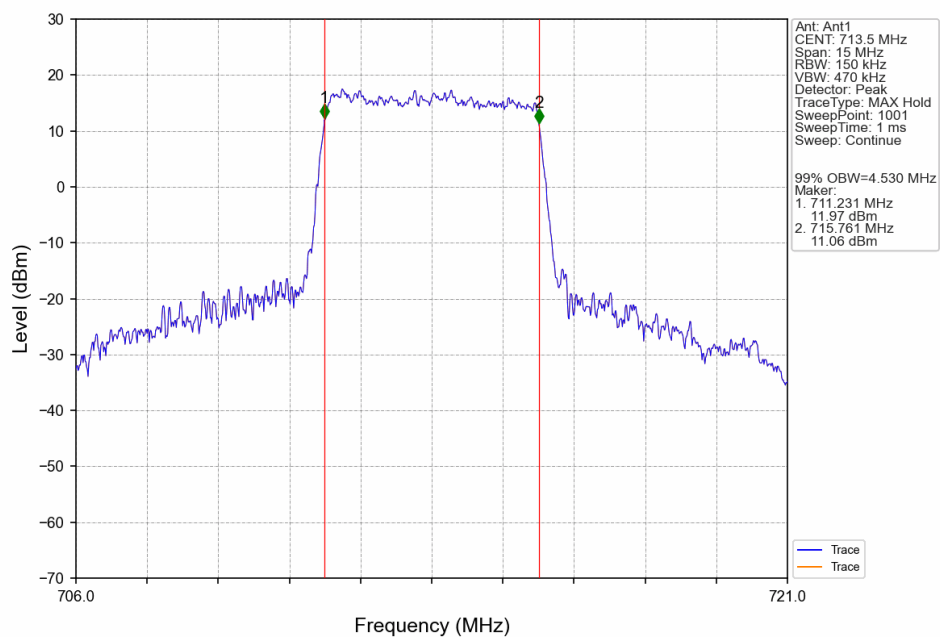
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTN



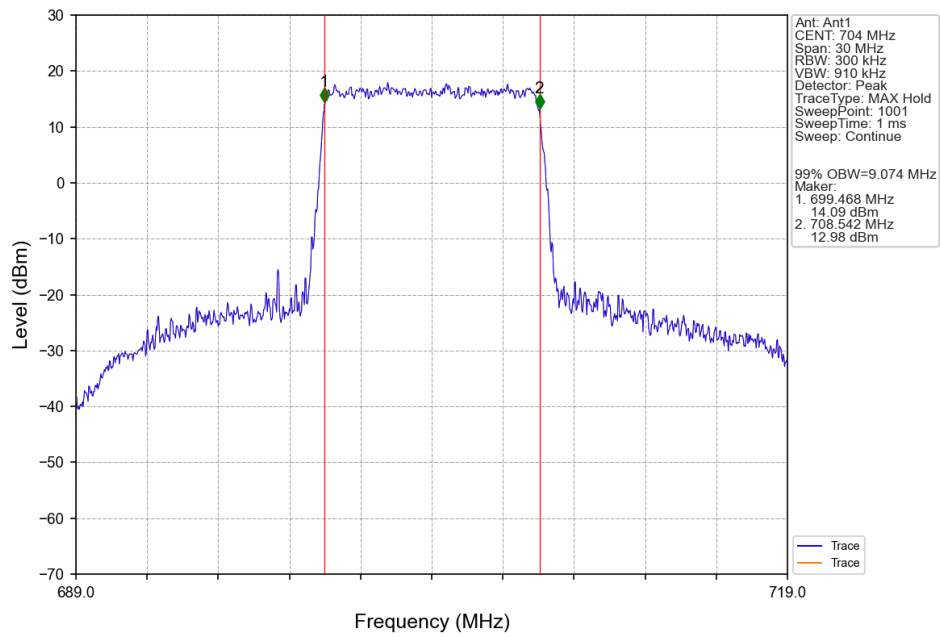
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTV



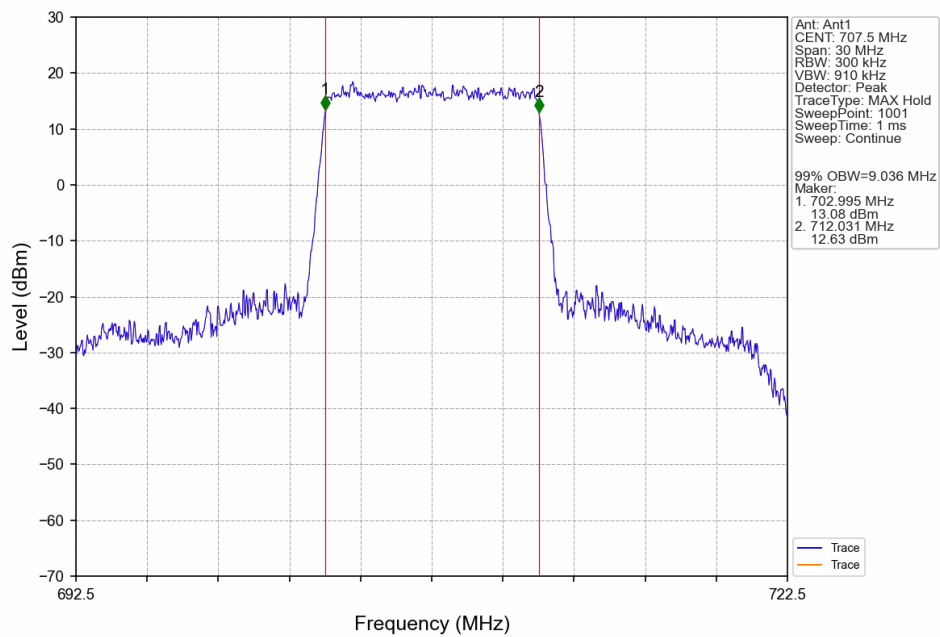
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTV



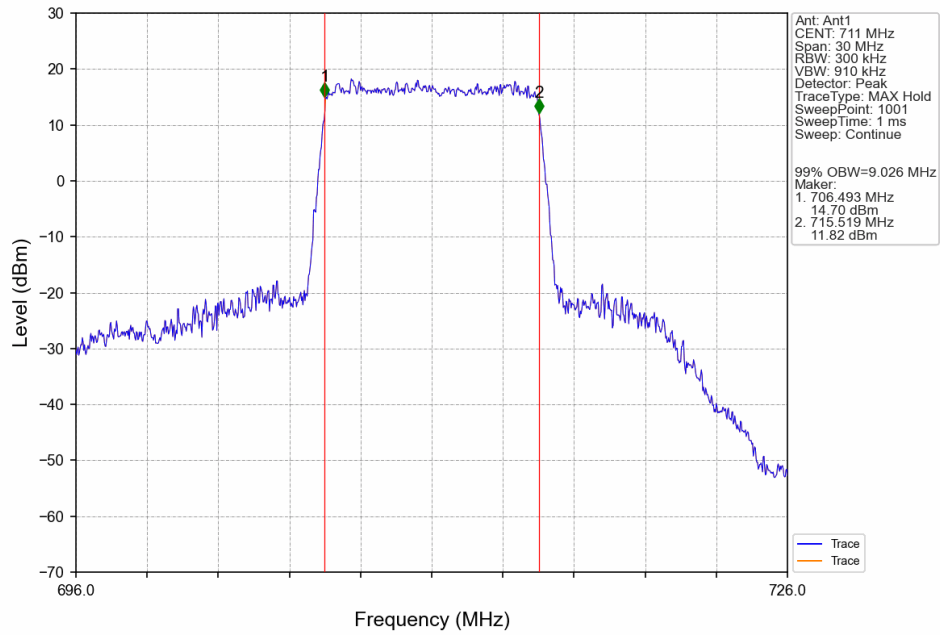
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



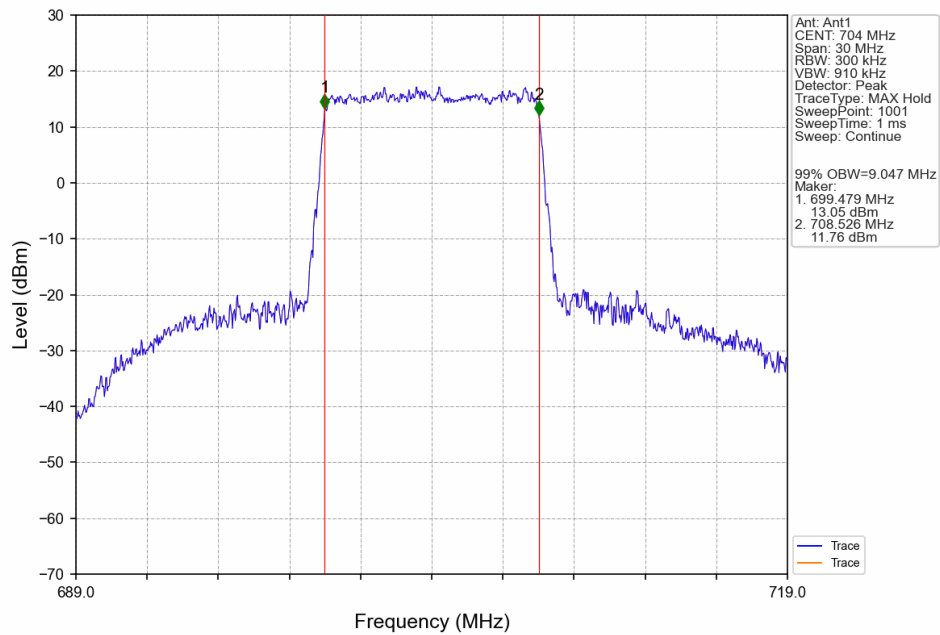
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



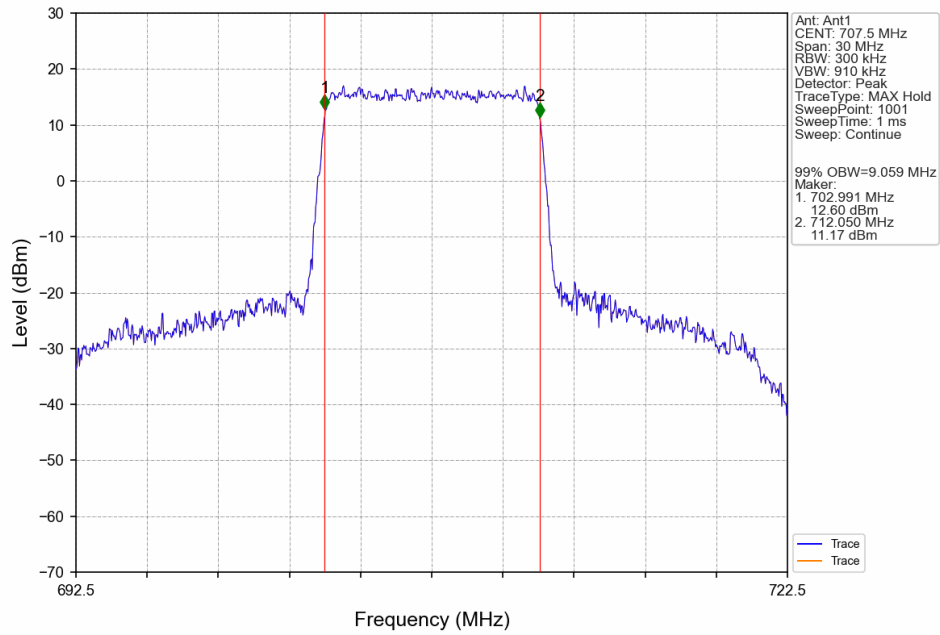
Band12 10MHz QPSK HCH 711MHz RB 50 0 NTNV



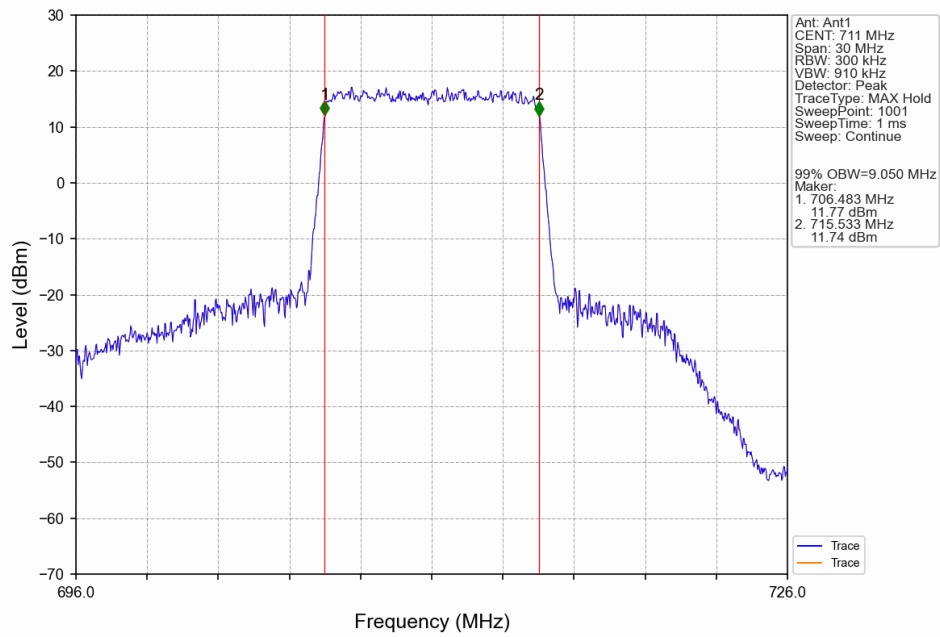
Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTNV



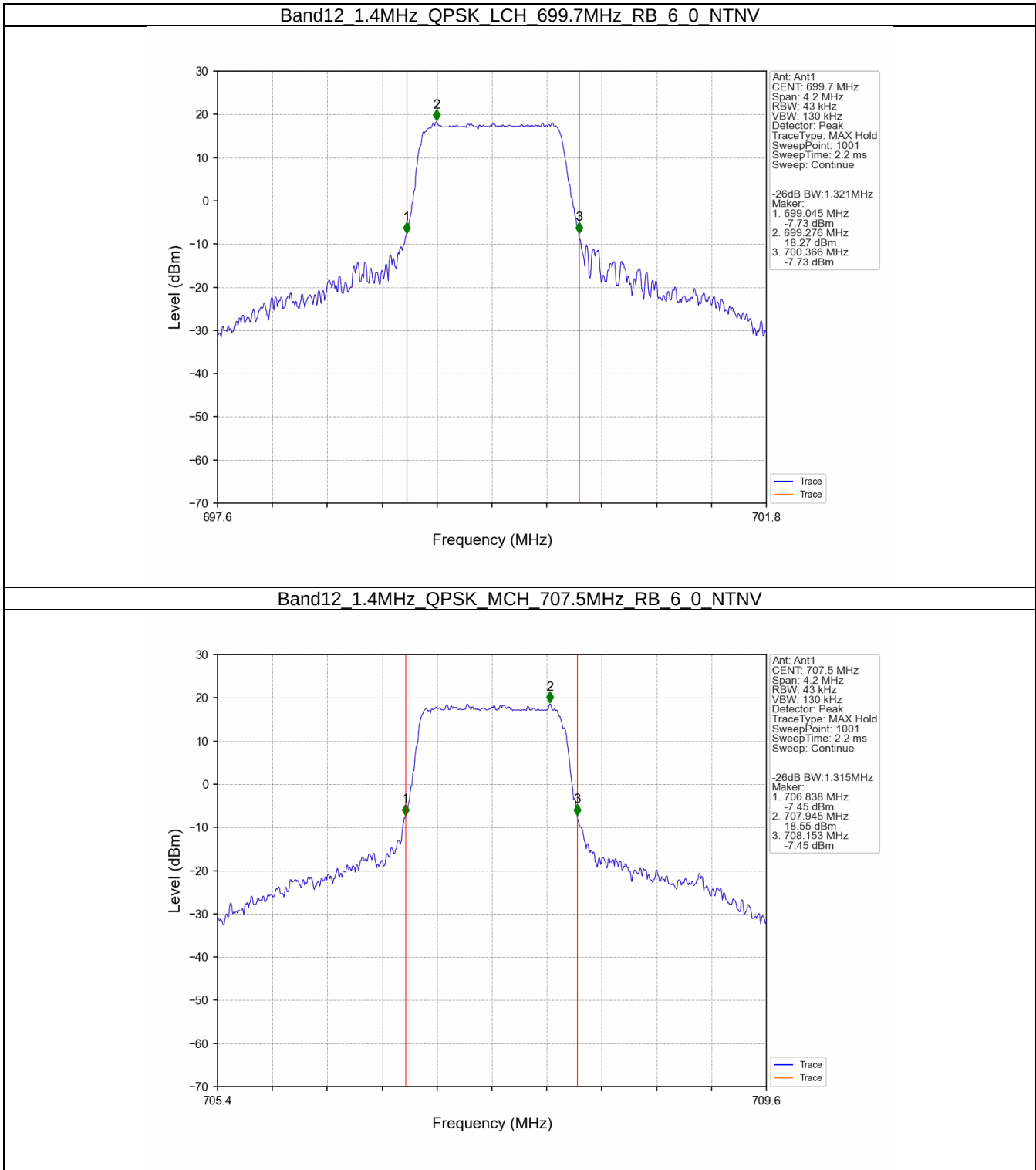
Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTN



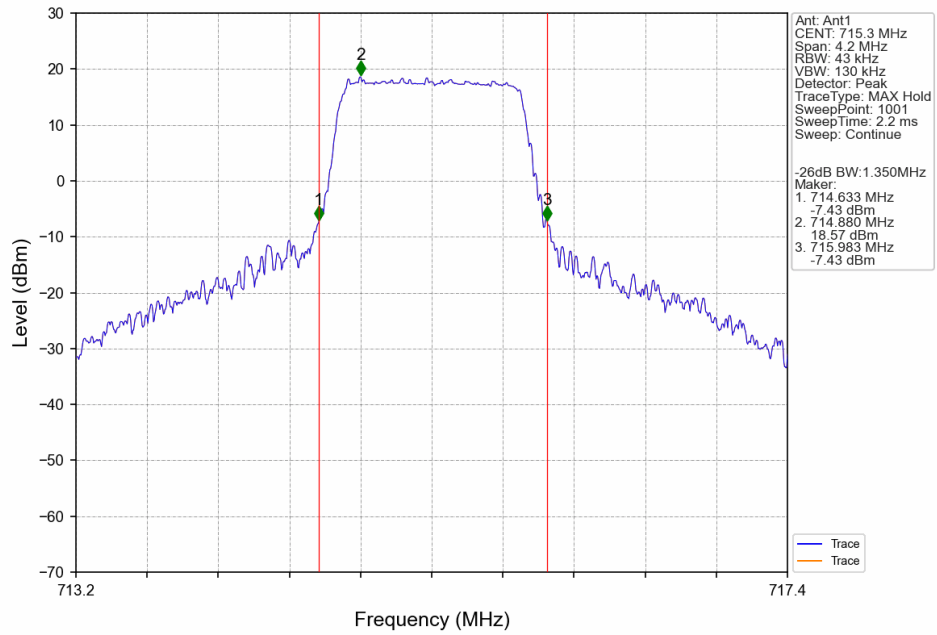
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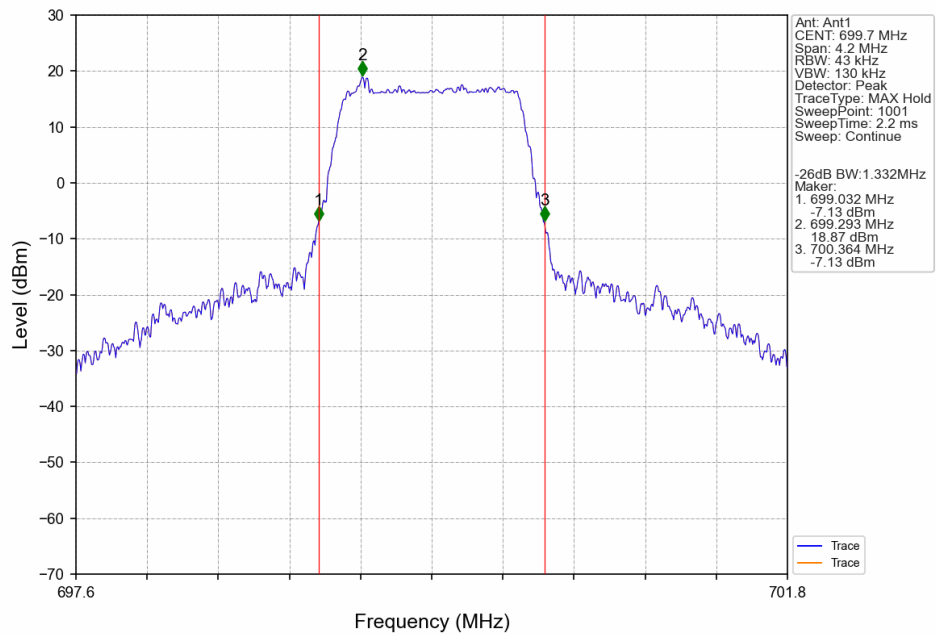
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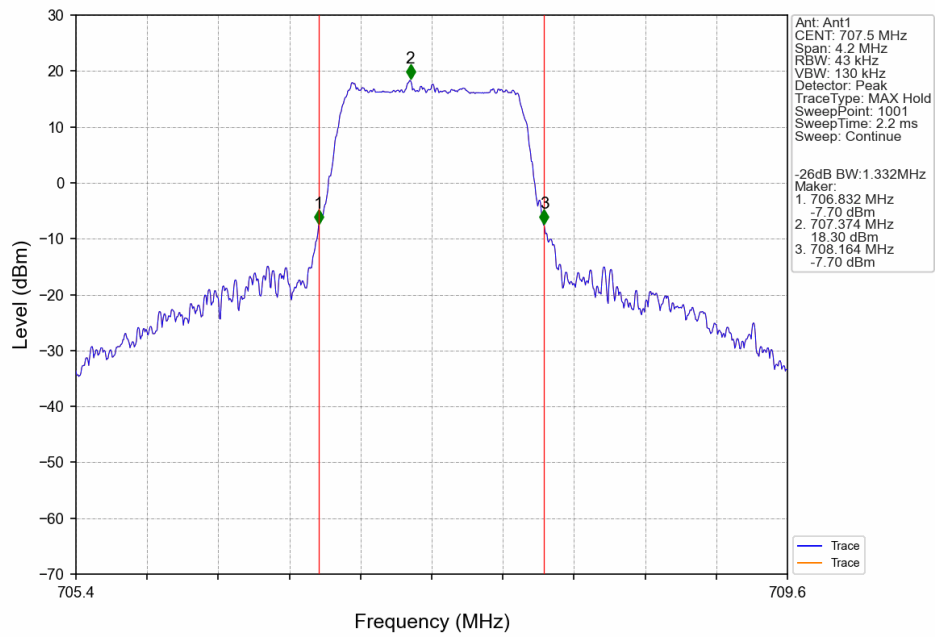
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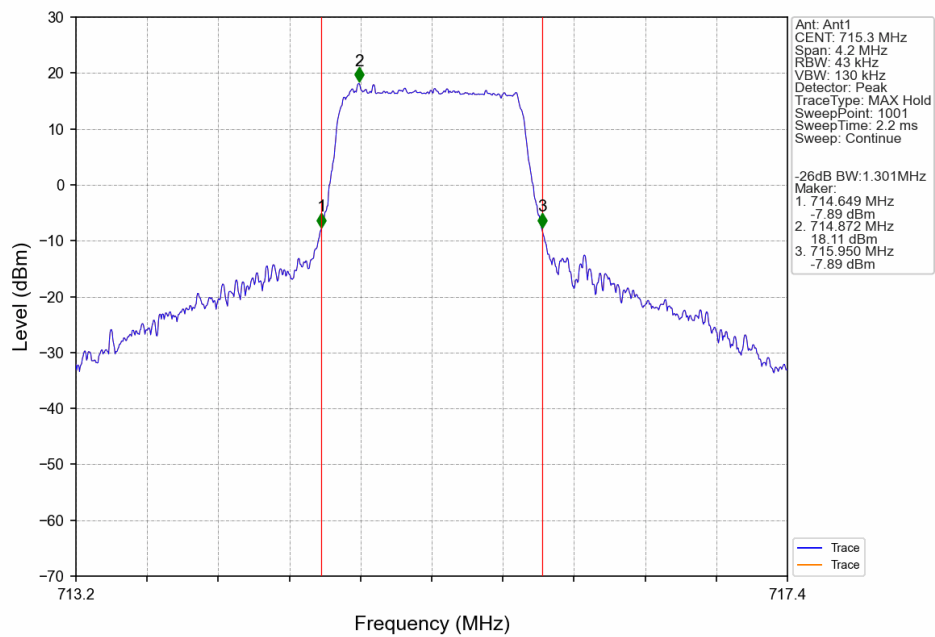
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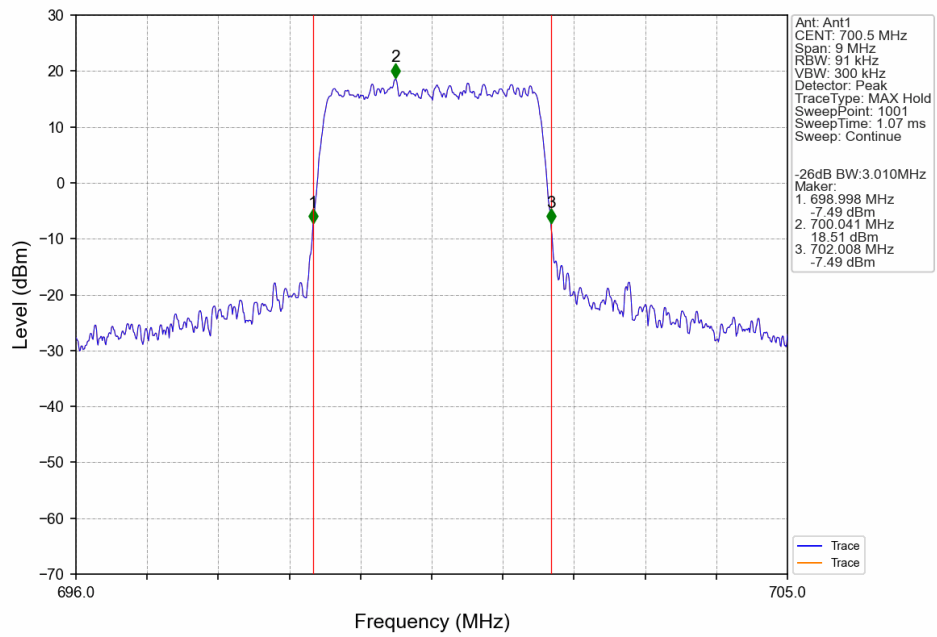
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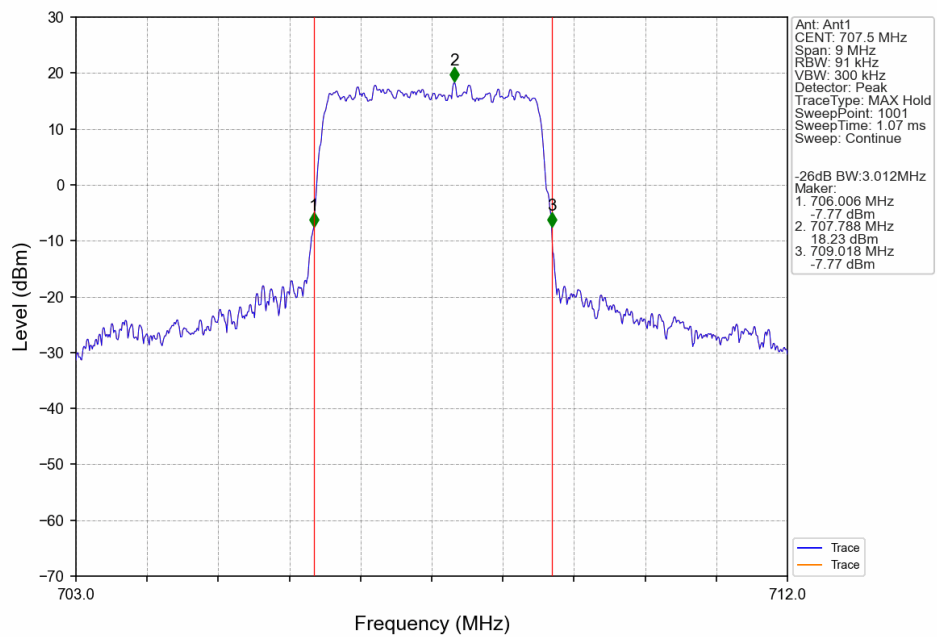
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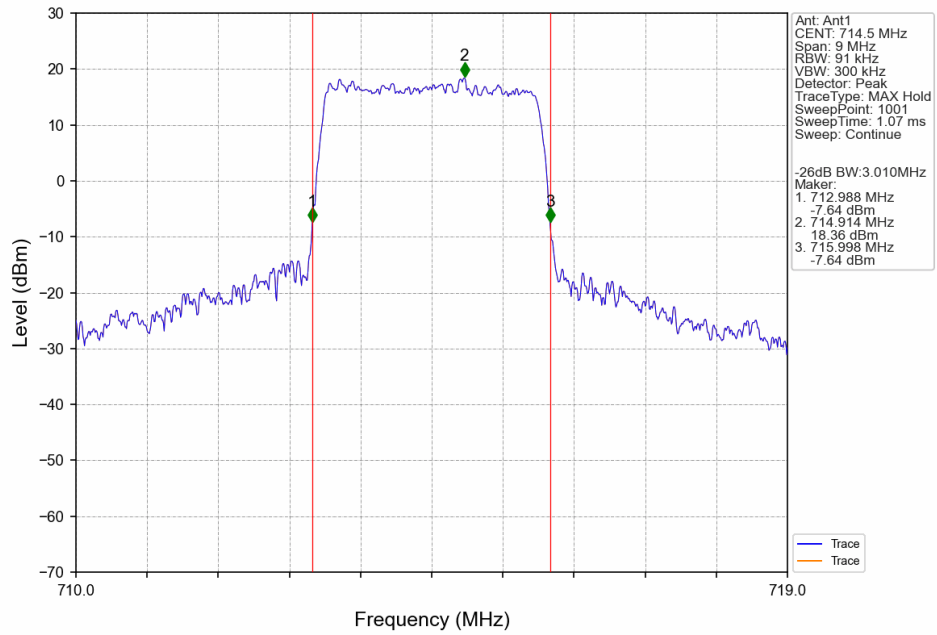
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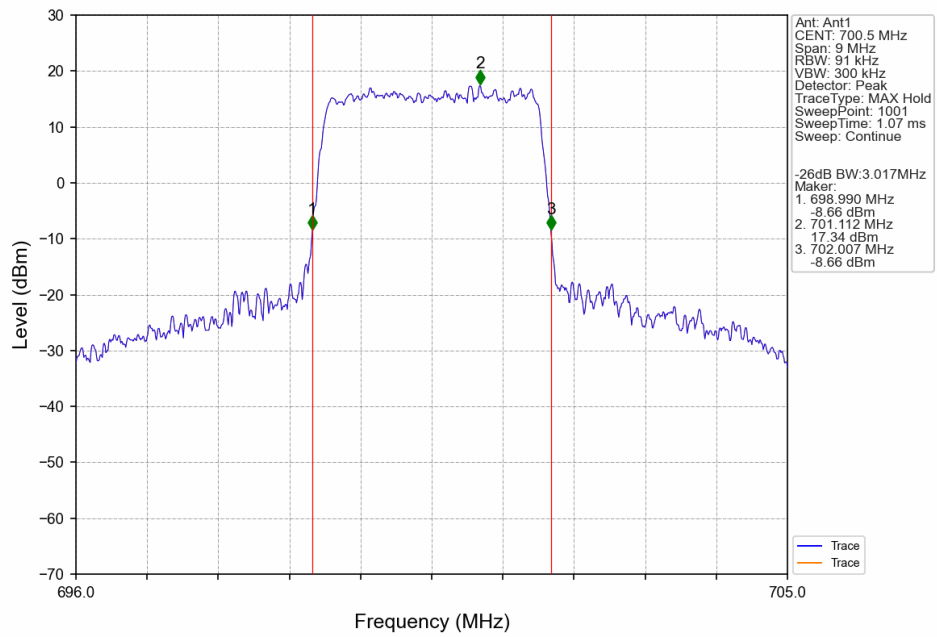
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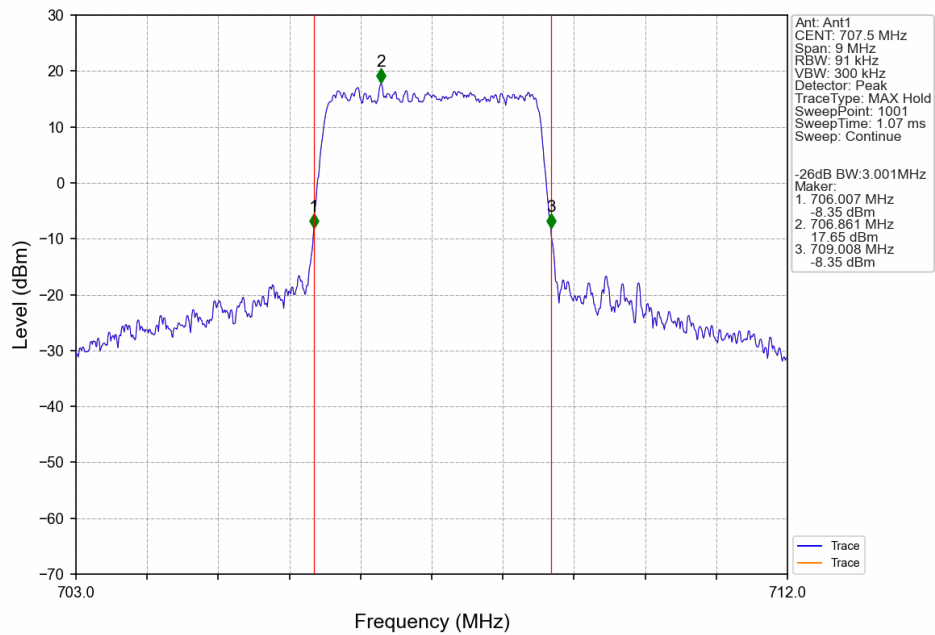
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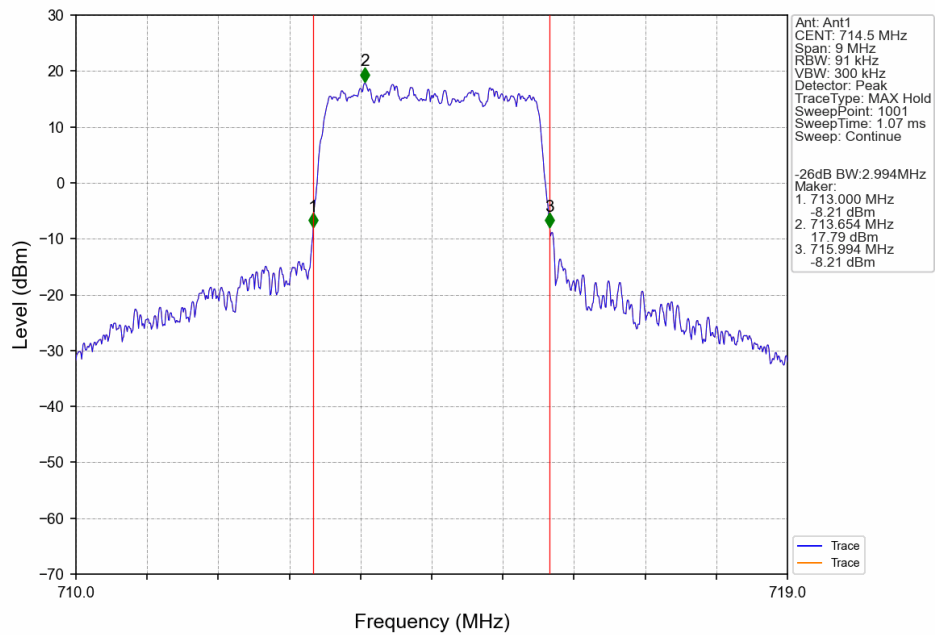
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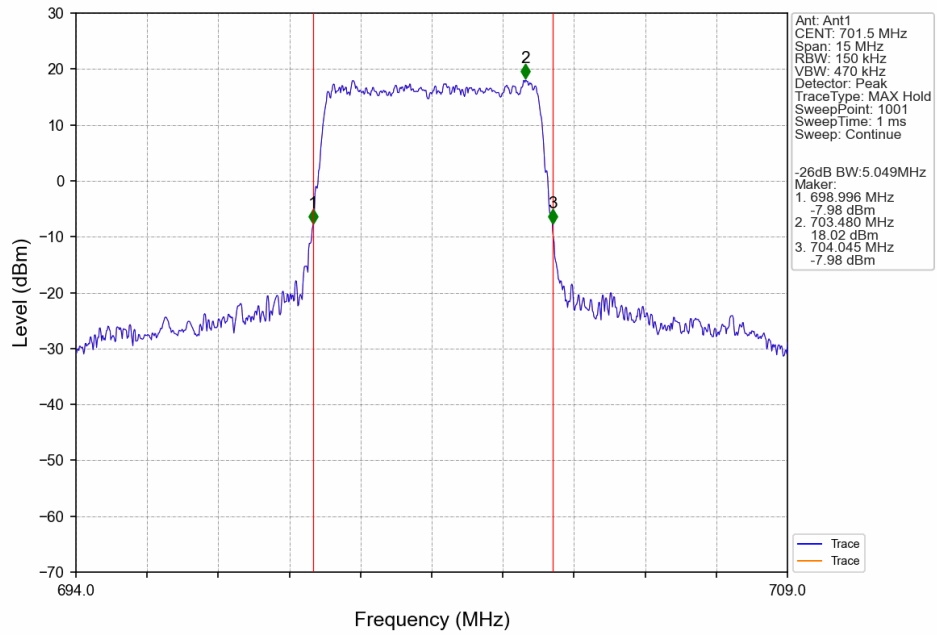
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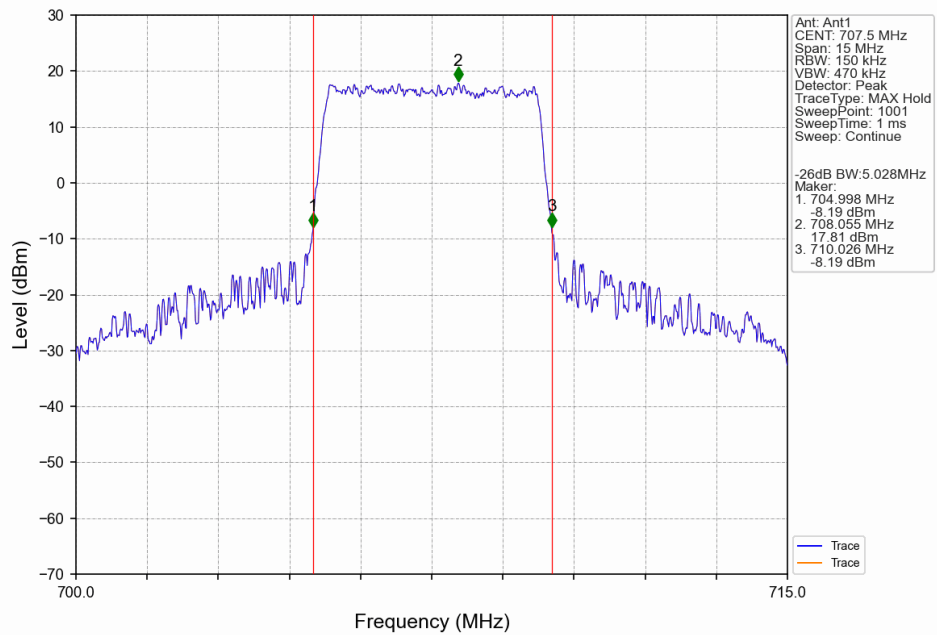
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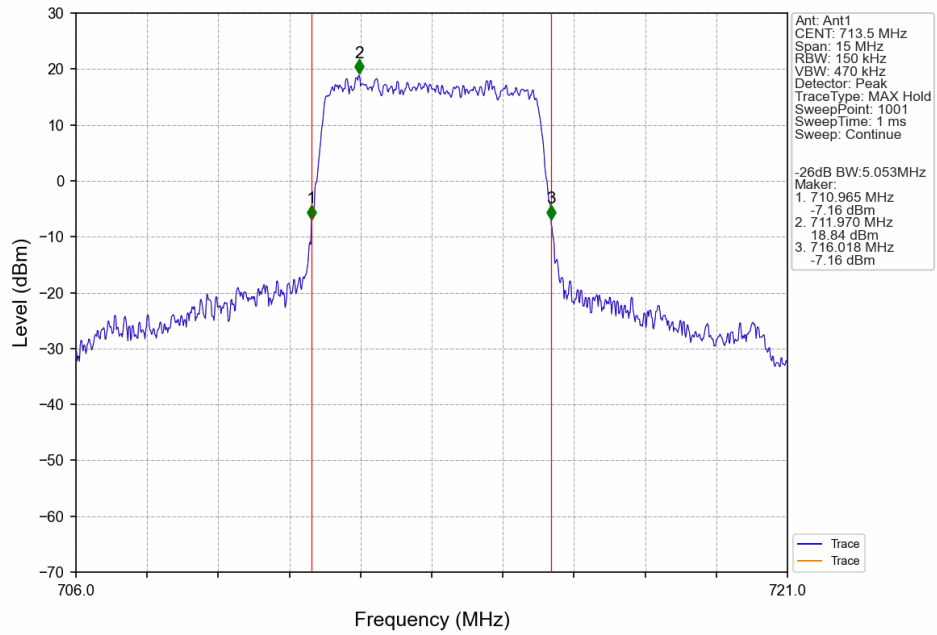
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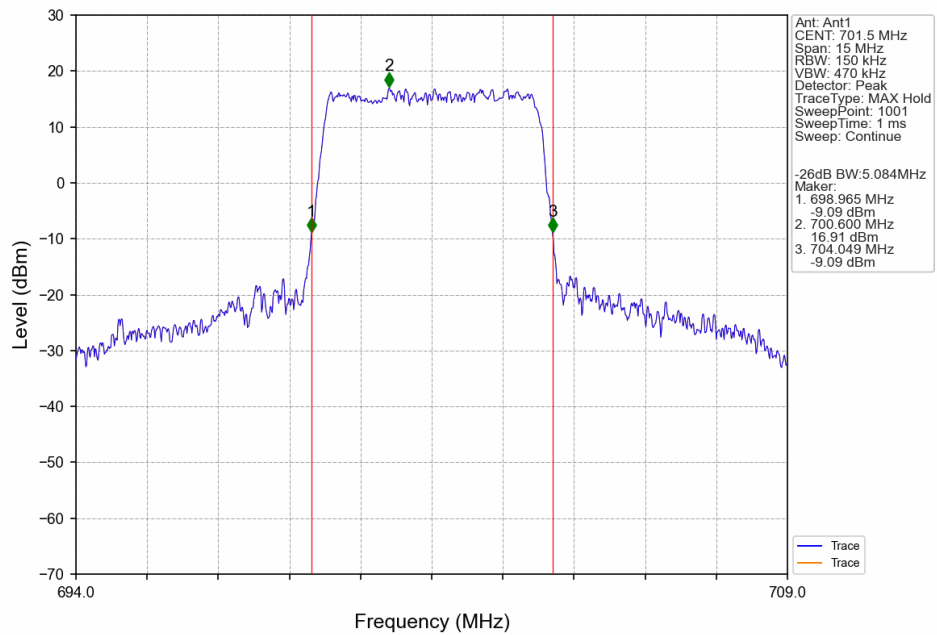
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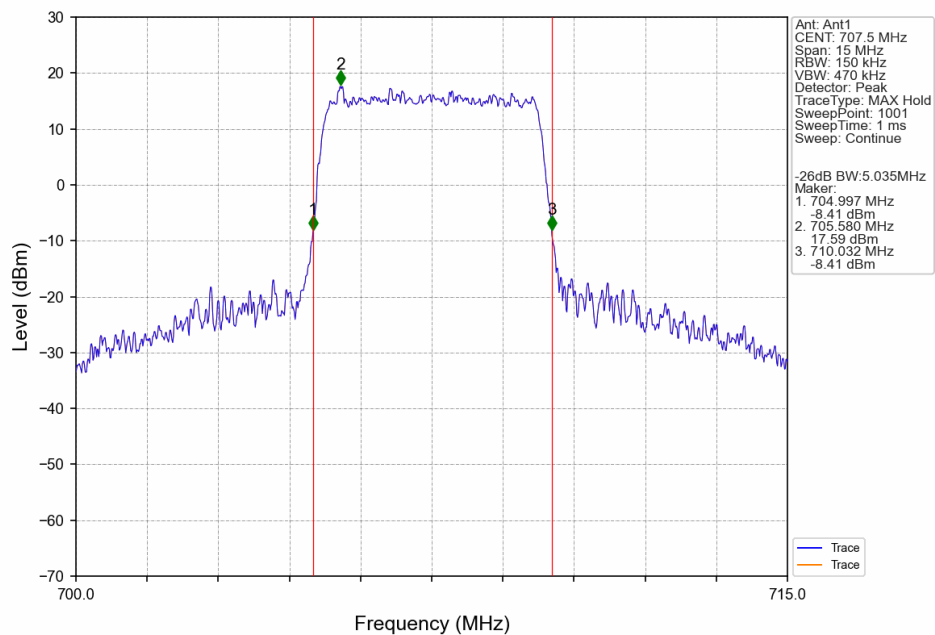
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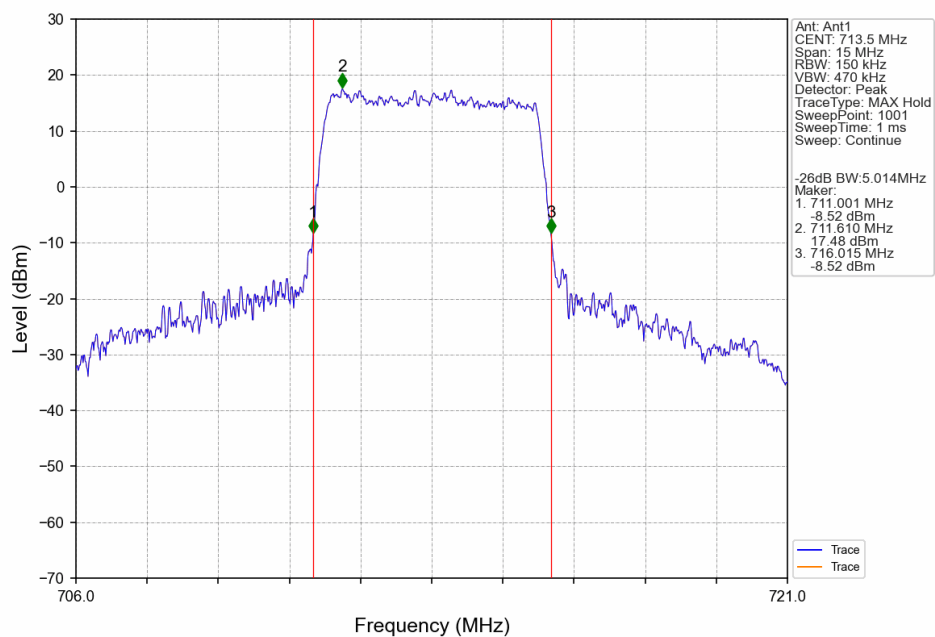
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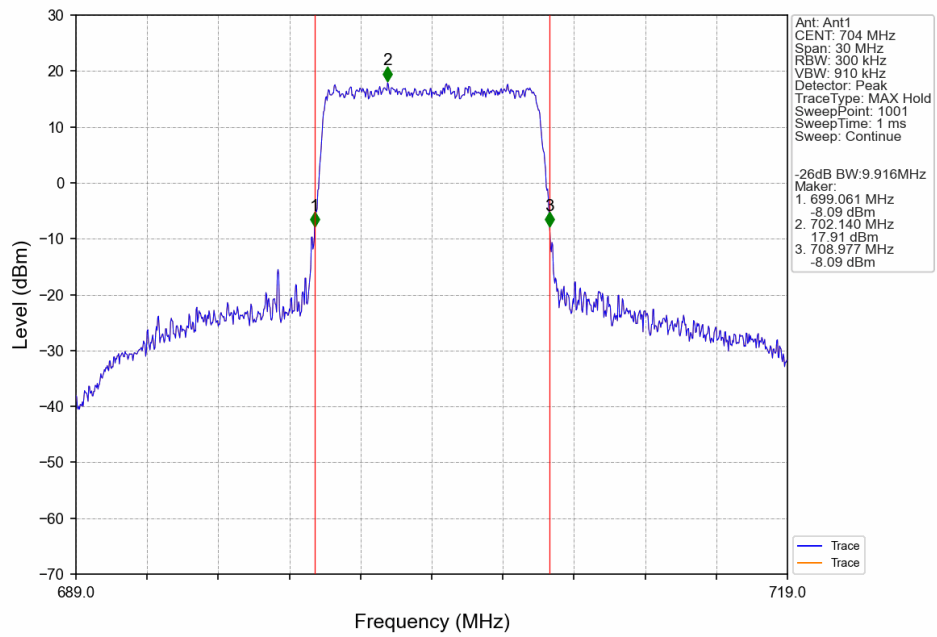
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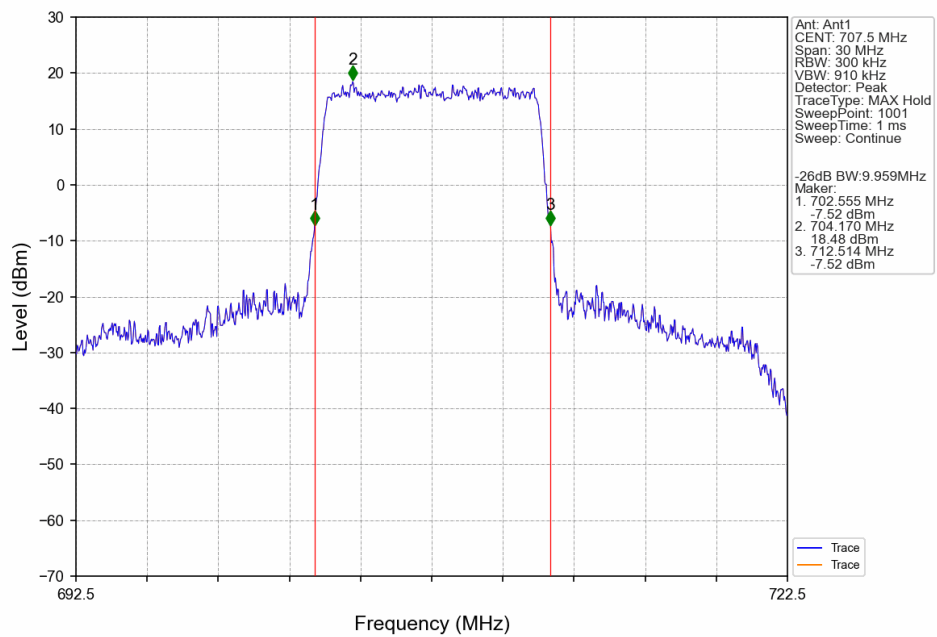
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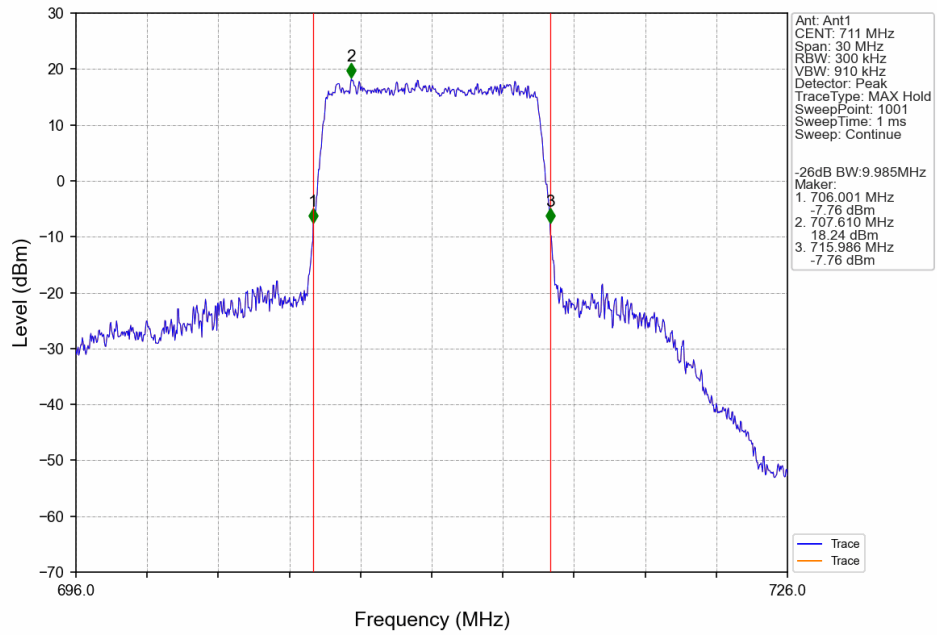
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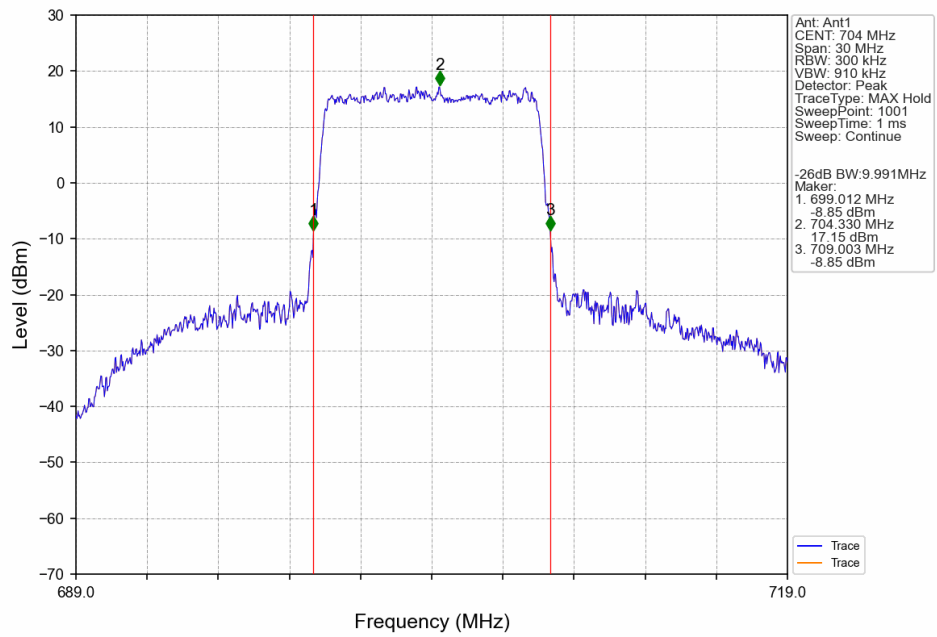
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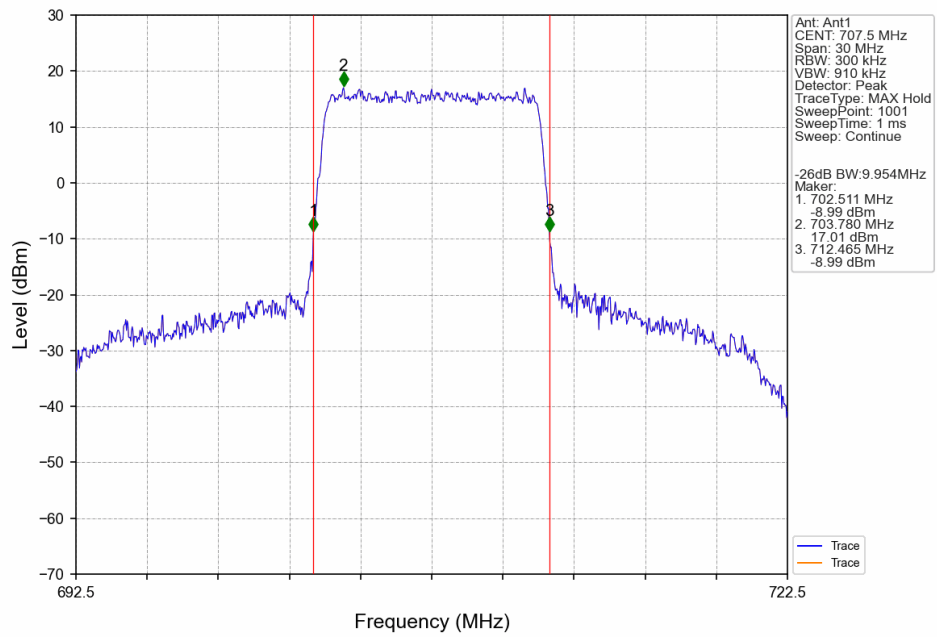
Band12 10MHz QPSK HCH 711MHz RB 50 0 NTNV



Band12 10MHz 16QAM LCH 704MHz RB 50 0 NTNV



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



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

