

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	22.91	3.50	24.26	<=34.77	Pass	
			2	23.11	3.50	24.46	<=34.77	Pass	
			5	22.75	3.50	24.10	<=34.77	Pass	
		3	0	22.81	3.50	24.16	<=34.77	Pass	
			2	22.88	3.50	24.23	<=34.77	Pass	
			3	22.86	3.50	24.21	<=34.77	Pass	
		6	0	22.03	3.50	23.38	<=34.77	Pass	
	707.5	1	0	22.72	3.50	24.07	<=34.77	Pass	
			2	22.99	3.50	24.34	<=34.77	Pass	
			5	22.90	3.50	24.25	<=34.77	Pass	
		3	0	22.70	3.50	24.05	<=34.77	Pass	
			2	22.91	3.50	24.26	<=34.77	Pass	
			3	22.64	3.50	23.99	<=34.77	Pass	
	715.3	6	0	21.78	3.50	23.13	<=34.77	Pass	
			1	0	22.88	3.50	24.23	<=34.77	Pass
				2	22.79	3.50	24.14	<=34.77	Pass
		5		22.98	3.50	24.33	<=34.77	Pass	
		3	0	22.89	3.50	24.24	<=34.77	Pass	
			2	22.88	3.50	24.23	<=34.77	Pass	
			3	22.89	3.50	24.24	<=34.77	Pass	
	16QAM	699.7	6	0	21.85	3.50	23.20	<=34.77	Pass
1				0	22.35	3.50	23.70	<=34.77	Pass
				2	22.54	3.50	23.89	<=34.77	Pass
			5	22.54	3.50	23.89	<=34.77	Pass	
3			0	21.93	3.50	23.28	<=34.77	Pass	
			2	21.96	3.50	23.31	<=34.77	Pass	
			3	21.82	3.50	23.17	<=34.77	Pass	
6		0	20.88	3.50	22.23	<=34.77	Pass		
707.5		1	0	22.00	3.50	23.35	<=34.77	Pass	
			2	21.81	3.50	23.16	<=34.77	Pass	
			5	21.72	3.50	23.07	<=34.77	Pass	
		3	0	21.97	3.50	23.32	<=34.77	Pass	
			2	21.94	3.50	23.29	<=34.77	Pass	
			3	22.01	3.50	23.36	<=34.77	Pass	
6		0	20.69	3.50	22.04	<=34.77	Pass		
715.3		1	0	22.56	3.50	23.91	<=34.77	Pass	
			2	22.33	3.50	23.68	<=34.77	Pass	
			5	22.55	3.50	23.90	<=34.77	Pass	
		3	0	21.85	3.50	23.20	<=34.77	Pass	
			2	21.70	3.50	23.05	<=34.77	Pass	
			3	21.65	3.50	23.00	<=34.77	Pass	
	6	0	20.69	3.50	22.04	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.05	3.50	24.40	<=34.77	Pass
			7	23.13	3.50	24.48	<=34.77	Pass
			14	22.84	3.50	24.19	<=34.77	Pass
		8	0	21.96	3.50	23.31	<=34.77	Pass
			4	21.98	3.50	23.33	<=34.77	Pass
			7	21.99	3.50	23.34	<=34.77	Pass
		15	0	22.05	3.50	23.40	<=34.77	Pass
	707.5	1	0	22.86	3.50	24.21	<=34.77	Pass
			7	22.77	3.50	24.12	<=34.77	Pass
			14	22.85	3.50	24.20	<=34.77	Pass
		8	0	21.97	3.50	23.32	<=34.77	Pass
			4	21.81	3.50	23.16	<=34.77	Pass
			7	21.87	3.50	23.22	<=34.77	Pass
		15	0	21.89	3.50	23.24	<=34.77	Pass
	714.5	1	0	22.62	3.50	23.97	<=34.77	Pass
			7	22.87	3.50	24.22	<=34.77	Pass
			14	22.85	3.50	24.20	<=34.77	Pass
		8	0	21.88	3.50	23.23	<=34.77	Pass
			4	21.92	3.50	23.27	<=34.77	Pass
			7	21.89	3.50	23.24	<=34.77	Pass
		15	0	21.87	3.50	23.22	<=34.77	Pass
16QAM	700.5	1	0	21.97	3.50	23.32	<=34.77	Pass
			7	21.86	3.50	23.21	<=34.77	Pass
			14	21.78	3.50	23.13	<=34.77	Pass
		8	0	20.88	3.50	22.23	<=34.77	Pass
			4	20.92	3.50	22.27	<=34.77	Pass
			7	20.77	3.50	22.12	<=34.77	Pass
		15	0	20.84	3.50	22.19	<=34.77	Pass
	707.5	1	0	21.89	3.50	23.24	<=34.77	Pass
			7	22.14	3.50	23.49	<=34.77	Pass
			14	21.74	3.50	23.09	<=34.77	Pass
		8	0	20.77	3.50	22.12	<=34.77	Pass
			4	20.81	3.50	22.16	<=34.77	Pass
			7	20.79	3.50	22.14	<=34.77	Pass
		15	0	20.81	3.50	22.16	<=34.77	Pass
	714.5	1	0	22.24	3.50	23.59	<=34.77	Pass
			7	22.25	3.50	23.60	<=34.77	Pass
			14	22.23	3.50	23.58	<=34.77	Pass
		8	0	20.88	3.50	22.23	<=34.77	Pass
4			20.88	3.50	22.23	<=34.77	Pass	
7			21.09	3.50	22.44	<=34.77	Pass	
15		0	21.16	3.50	22.51	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	22.74	3.50	24.09	<=34.77	Pass
			13	22.76	3.50	24.11	<=34.77	Pass
			24	22.51	3.50	23.86	<=34.77	Pass
		12	0	21.98	3.50	23.33	<=34.77	Pass
			6	21.90	3.50	23.25	<=34.77	Pass
			13	21.84	3.50	23.19	<=34.77	Pass
		25	0	21.82	3.50	23.17	<=34.77	Pass
	707.5	1	0	22.58	3.50	23.93	<=34.77	Pass
			13	22.51	3.50	23.86	<=34.77	Pass
			24	22.58	3.50	23.93	<=34.77	Pass
		12	0	22.00	3.50	23.35	<=34.77	Pass
			6	21.92	3.50	23.27	<=34.77	Pass
			13	21.97	3.50	23.32	<=34.77	Pass
		25	0	21.88	3.50	23.23	<=34.77	Pass
	713.5	1	0	22.66	3.50	24.01	<=34.77	Pass
			13	22.54	3.50	23.89	<=34.77	Pass
			24	22.83	3.50	24.18	<=34.77	Pass
		12	0	21.86	3.50	23.21	<=34.77	Pass
			6	21.94	3.50	23.29	<=34.77	Pass
			13	21.76	3.50	23.11	<=34.77	Pass
		25	0	21.86	3.50	23.21	<=34.77	Pass
16QAM	701.5	1	0	21.98	3.50	23.33	<=34.77	Pass
			13	21.95	3.50	23.30	<=34.77	Pass
			24	21.41	3.50	22.76	<=34.77	Pass
		12	0	20.76	3.50	22.11	<=34.77	Pass
			6	20.71	3.50	22.06	<=34.77	Pass
			13	20.58	3.50	21.93	<=34.77	Pass
		25	0	20.64	3.50	21.99	<=34.77	Pass
	707.5	1	0	21.63	3.50	22.98	<=34.77	Pass
			13	21.95	3.50	23.30	<=34.77	Pass
			24	21.65	3.50	23.00	<=34.77	Pass
		12	0	20.69	3.50	22.04	<=34.77	Pass
			6	20.65	3.50	22.00	<=34.77	Pass
			13	20.71	3.50	22.06	<=34.77	Pass
		25	0	20.72	3.50	22.07	<=34.77	Pass
	713.5	1	0	22.40	3.50	23.75	<=34.77	Pass
			13	22.34	3.50	23.69	<=34.77	Pass
			24	22.16	3.50	23.51	<=34.77	Pass
		12	0	20.89	3.50	22.24	<=34.77	Pass
			6	20.80	3.50	22.15	<=34.77	Pass
			13	20.73	3.50	22.08	<=34.77	Pass
		25	0	20.82	3.50	22.17	<=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	22.69	3.50	24.04	<=34.77	Pass
			25	22.96	3.50	24.31	<=34.77	Pass
			49	22.61	3.50	23.96	<=34.77	Pass
		25	0	21.90	3.50	23.25	<=34.77	Pass
			13	21.93	3.50	23.28	<=34.77	Pass
			25	21.99	3.50	23.34	<=34.77	Pass
		50	0	21.82	3.50	23.17	<=34.77	Pass
			0	22.92	3.50	24.27	<=34.77	Pass
			25	23.04	3.50	24.39	<=34.77	Pass
	707.5	1	49	22.64	3.50	23.99	<=34.77	Pass
			0	21.96	3.50	23.31	<=34.77	Pass
			13	21.85	3.50	23.20	<=34.77	Pass
		25	25	21.77	3.50	23.12	<=34.77	Pass
			0	21.76	3.50	23.11	<=34.77	Pass
		50	0	22.69	3.50	24.04	<=34.77	Pass
			25	22.80	3.50	24.15	<=34.77	Pass
			49	22.44	3.50	23.79	<=34.77	Pass
	711	1	0	21.79	3.50	23.14	<=34.77	Pass
			13	21.92	3.50	23.27	<=34.77	Pass
			25	21.94	3.50	23.29	<=34.77	Pass
		25	0	21.88	3.50	23.23	<=34.77	Pass
			0					
			0					
		50	0					
			0					
			0					

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	10.2	-1.059	-0.0015	-2.5 to 2.5	Pass
					12	-0.272	-0.0004	-2.5 to 2.5	Pass
					13.8	-0.129	-0.0002	-2.5 to 2.5	Pass
				-30	12	-0.486	-0.0007	-2.5 to 2.5	Pass
				-20	12	-1.087	-0.0016	-2.5 to 2.5	Pass
				-10	12	-1.001	-0.0014	-2.5 to 2.5	Pass
				0	12	-0.515	-0.0007	-2.5 to 2.5	Pass
				10	12	-0.801	-0.0011	-2.5 to 2.5	Pass
				30	12	-1.230	-0.0018	-2.5 to 2.5	Pass
				40	12	-0.873	-0.0012	-2.5 to 2.5	Pass
				50	12	-1.016	-0.0015	-2.5 to 2.5	Pass
	707.5	6	0	20	10.2	-1.173	-0.0017	-2.5 to 2.5	Pass
					12	-0.787	-0.0011	-2.5 to 2.5	Pass
					13.8	-1.345	-0.0019	-2.5 to 2.5	Pass
				-30	12	-0.916	-0.0013	-2.5 to 2.5	Pass
				-20	12	-0.715	-0.0010	-2.5 to 2.5	Pass
				-10	12	-0.257	-0.0004	-2.5 to 2.5	Pass
				0	12	-0.644	-0.0009	-2.5 to 2.5	Pass
				10	12	-0.100	-0.0001	-2.5 to 2.5	Pass
				30	12	-0.715	-0.0010	-2.5 to 2.5	Pass
				40	12	-0.057	-0.0001	-2.5 to 2.5	Pass
				50	12	-0.029	0.0000	-2.5 to 2.5	Pass
	715.3	6	0	20	10.2	-0.873	-0.0012	-2.5 to 2.5	Pass
					12	-1.273	-0.0018	-2.5 to 2.5	Pass
					13.8	-1.445	-0.0020	-2.5 to 2.5	Pass
				-30	12	-1.073	-0.0015	-2.5 to 2.5	Pass
				-20	12	-1.860	-0.0026	-2.5 to 2.5	Pass
				-10	12	-0.973	-0.0014	-2.5 to 2.5	Pass
				0	12	-0.815	-0.0011	-2.5 to 2.5	Pass
				10	12	-0.987	-0.0014	-2.5 to 2.5	Pass
				30	12	-0.715	-0.0010	-2.5 to 2.5	Pass
				40	12	-0.887	-0.0012	-2.5 to 2.5	Pass
				50	12	-0.529	-0.0007	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	10.2	-0.200	-0.0003	-2.5 to 2.5	Pass
					12	-1.502	-0.0021	-2.5 to 2.5	Pass
					13.8	-0.615	-0.0009	-2.5 to 2.5	Pass
				-30	12	-1.802	-0.0026	-2.5 to 2.5	Pass
				-20	12	-0.501	-0.0007	-2.5 to 2.5	Pass
				-10	12	-0.858	-0.0012	-2.5 to 2.5	Pass
				0	12	-0.443	-0.0006	-2.5 to 2.5	Pass
				10	12	-1.731	-0.0025	-2.5 to 2.5	Pass
				30	12	-0.944	-0.0013	-2.5 to 2.5	Pass
				40	12	-0.329	-0.0005	-2.5 to 2.5	Pass
				50	12	0.000	0.0000	-2.5 to 2.5	Pass
	707.5	6	0	20	10.2	0.129	0.0002	-2.5 to 2.5	Pass
					12	0.000	0.0000	-2.5 to 2.5	Pass
					13.8	0.501	0.0007	-2.5 to 2.5	Pass
				-30	12	-0.744	-0.0011	-2.5 to 2.5	Pass
				-20	12	-0.858	-0.0012	-2.5 to 2.5	Pass
				-10	12	-0.086	-0.0001	-2.5 to 2.5	Pass

				0	12	-1.101	-0.0016	-2.5 to 2.5	Pass
				10	12	-0.587	-0.0008	-2.5 to 2.5	Pass
				30	12	-0.386	-0.0005	-2.5 to 2.5	Pass
				40	12	-0.887	-0.0013	-2.5 to 2.5	Pass
				50	12	-0.687	-0.0010	-2.5 to 2.5	Pass
	715.3	6	0	20	10.2	-0.043	-0.0001	-2.5 to 2.5	Pass
					12	0.587	0.0008	-2.5 to 2.5	Pass
					13.8	0.901	0.0013	-2.5 to 2.5	Pass
				-30	12	0.529	0.0007	-2.5 to 2.5	Pass
				-20	12	-0.415	-0.0006	-2.5 to 2.5	Pass
				-10	12	0.129	0.0002	-2.5 to 2.5	Pass
				0	12	-0.601	-0.0008	-2.5 to 2.5	Pass
				10	12	-0.901	-0.0013	-2.5 to 2.5	Pass
				30	12	-0.429	-0.0006	-2.5 to 2.5	Pass
				40	12	-0.772	-0.0011	-2.5 to 2.5	Pass
				50	12	-0.944	-0.0013	-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	10.2	-2.189	-0.0031	-2.5 to 2.5	Pass
					12	-1.845	-0.0026	-2.5 to 2.5	Pass
					13.8	-1.874	-0.0027	-2.5 to 2.5	Pass
				-30	12	-1.316	-0.0019	-2.5 to 2.5	Pass
				-20	12	-1.631	-0.0023	-2.5 to 2.5	Pass
				-10	12	-1.473	-0.0021	-2.5 to 2.5	Pass
				0	12	-2.074	-0.0030	-2.5 to 2.5	Pass
				10	12	-1.574	-0.0022	-2.5 to 2.5	Pass
				30	12	-1.602	-0.0023	-2.5 to 2.5	Pass
				40	12	-2.103	-0.0030	-2.5 to 2.5	Pass
				50	12	-2.675	-0.0038	-2.5 to 2.5	Pass
	707.5	15	0	20	10.2	-0.100	-0.0001	-2.5 to 2.5	Pass
					12	-0.200	-0.0003	-2.5 to 2.5	Pass
					13.8	-0.415	-0.0006	-2.5 to 2.5	Pass
				-30	12	-0.744	-0.0011	-2.5 to 2.5	Pass
				-20	12	-1.073	-0.0015	-2.5 to 2.5	Pass
				-10	12	-0.672	-0.0009	-2.5 to 2.5	Pass
				0	12	-0.658	-0.0009	-2.5 to 2.5	Pass
				10	12	-1.287	-0.0018	-2.5 to 2.5	Pass
				30	12	-0.658	-0.0009	-2.5 to 2.5	Pass
				40	12	-0.758	-0.0011	-2.5 to 2.5	Pass
				50	12	-0.043	-0.0001	-2.5 to 2.5	Pass
	714.5	15	0	20	10.2	0.257	0.0004	-2.5 to 2.5	Pass
					12	-0.644	-0.0009	-2.5 to 2.5	Pass
					13.8	-0.744	-0.0010	-2.5 to 2.5	Pass
				-30	12	0.157	0.0002	-2.5 to 2.5	Pass
				-20	12	0.129	0.0002	-2.5 to 2.5	Pass
				-10	12	-0.572	-0.0008	-2.5 to 2.5	Pass
				0	12	0.443	0.0006	-2.5 to 2.5	Pass
				10	12	-0.772	-0.0011	-2.5 to 2.5	Pass
				30	12	0.286	0.0004	-2.5 to 2.5	Pass
				40	12	-0.029	0.0000	-2.5 to 2.5	Pass
				50	12	-0.472	-0.0007	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	10.2	-1.130	-0.0016	-2.5 to 2.5	Pass
					12	-1.502	-0.0021	-2.5 to 2.5	Pass
					13.8	-0.572	-0.0008	-2.5 to 2.5	Pass

				-30	12	-2.131	-0.0030	-2.5 to 2.5	Pass
				-20	12	-1.702	-0.0024	-2.5 to 2.5	Pass
				-10	12	-1.388	-0.0020	-2.5 to 2.5	Pass
				0	12	-1.545	-0.0022	-2.5 to 2.5	Pass
				10	12	-1.988	-0.0028	-2.5 to 2.5	Pass
				30	12	-2.131	-0.0030	-2.5 to 2.5	Pass
				40	12	-1.774	-0.0025	-2.5 to 2.5	Pass
				50	12	-2.160	-0.0031	-2.5 to 2.5	Pass
	707.5	15	0	20	10.2	-0.544	-0.0008	-2.5 to 2.5	Pass
					12	-0.529	-0.0007	-2.5 to 2.5	Pass
					13.8	-0.858	-0.0012	-2.5 to 2.5	Pass
				-30	12	-0.544	-0.0008	-2.5 to 2.5	Pass
				-20	12	-1.001	-0.0014	-2.5 to 2.5	Pass
				-10	12	-1.259	-0.0018	-2.5 to 2.5	Pass
				0	12	-0.386	-0.0005	-2.5 to 2.5	Pass
				10	12	-0.672	-0.0009	-2.5 to 2.5	Pass
				30	12	-1.001	-0.0014	-2.5 to 2.5	Pass
				40	12	-1.101	-0.0016	-2.5 to 2.5	Pass
				50	12	-0.944	-0.0013	-2.5 to 2.5	Pass
	714.5	15	0	20	10.2	0.529	0.0007	-2.5 to 2.5	Pass
					12	-0.229	-0.0003	-2.5 to 2.5	Pass
					13.8	-0.372	-0.0005	-2.5 to 2.5	Pass
				-30	12	0.043	0.0001	-2.5 to 2.5	Pass
				-20	12	-0.072	-0.0001	-2.5 to 2.5	Pass
				-10	12	-0.415	-0.0006	-2.5 to 2.5	Pass
				0	12	-0.086	-0.0001	-2.5 to 2.5	Pass
				10	12	0.343	0.0005	-2.5 to 2.5	Pass
				30	12	-0.229	-0.0003	-2.5 to 2.5	Pass
				40	12	-0.229	-0.0003	-2.5 to 2.5	Pass
				50	12	-0.114	-0.0002	-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	10.2	-0.615	-0.0009	-2.5 to 2.5	Pass
					12	-0.544	-0.0008	-2.5 to 2.5	Pass
					13.8	-0.701	-0.0010	-2.5 to 2.5	Pass
				-30	12	-0.701	-0.0010	-2.5 to 2.5	Pass
				-20	12	-1.101	-0.0016	-2.5 to 2.5	Pass
				-10	12	-1.030	-0.0015	-2.5 to 2.5	Pass
				0	12	-1.044	-0.0015	-2.5 to 2.5	Pass
				10	12	-1.373	-0.0020	-2.5 to 2.5	Pass
				30	12	-0.300	-0.0004	-2.5 to 2.5	Pass
				40	12	-1.502	-0.0021	-2.5 to 2.5	Pass
				50	12	-0.801	-0.0011	-2.5 to 2.5	Pass
	707.5	25	0	20	10.2	-1.345	-0.0019	-2.5 to 2.5	Pass
					12	-1.144	-0.0016	-2.5 to 2.5	Pass
					13.8	-1.130	-0.0016	-2.5 to 2.5	Pass
				-30	12	-0.930	-0.0013	-2.5 to 2.5	Pass
				-20	12	-0.944	-0.0013	-2.5 to 2.5	Pass
				-10	12	-0.472	-0.0007	-2.5 to 2.5	Pass
				0	12	-1.130	-0.0016	-2.5 to 2.5	Pass
				10	12	-1.216	-0.0017	-2.5 to 2.5	Pass
				30	12	-1.760	-0.0025	-2.5 to 2.5	Pass
				40	12	-1.302	-0.0018	-2.5 to 2.5	Pass
				50	12	-0.930	-0.0013	-2.5 to 2.5	Pass

	713.5	25	0	20	10.2	-0.944	-0.0013	-2.5 to 2.5	Pass
					12	-0.243	-0.0003	-2.5 to 2.5	Pass
					13.8	-0.930	-0.0013	-2.5 to 2.5	Pass
				-30	12	-0.672	-0.0009	-2.5 to 2.5	Pass
				-20	12	-0.815	-0.0011	-2.5 to 2.5	Pass
				-10	12	-0.830	-0.0012	-2.5 to 2.5	Pass
				0	12	-0.787	-0.0011	-2.5 to 2.5	Pass
				10	12	-0.114	-0.0002	-2.5 to 2.5	Pass
				30	12	-0.415	-0.0006	-2.5 to 2.5	Pass
				40	12	-1.245	-0.0017	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	10.2	-0.844	-0.0012	-2.5 to 2.5	Pass
					12	-0.944	-0.0013	-2.5 to 2.5	Pass
					13.8	-0.758	-0.0011	-2.5 to 2.5	Pass
				-30	12	-1.087	-0.0015	-2.5 to 2.5	Pass
				-20	12	-0.772	-0.0011	-2.5 to 2.5	Pass
				-10	12	-0.944	-0.0013	-2.5 to 2.5	Pass
				0	12	-0.429	-0.0006	-2.5 to 2.5	Pass
				10	12	-0.501	-0.0007	-2.5 to 2.5	Pass
				30	12	-0.286	-0.0004	-2.5 to 2.5	Pass
				40	12	-0.958	-0.0014	-2.5 to 2.5	Pass
	707.5	25	0	20	10.2	-0.730	-0.0010	-2.5 to 2.5	Pass
					12	-0.544	-0.0008	-2.5 to 2.5	Pass
					13.8	-0.544	-0.0008	-2.5 to 2.5	Pass
				-30	12	-0.658	-0.0009	-2.5 to 2.5	Pass
				-20	12	-0.429	-0.0006	-2.5 to 2.5	Pass
				-10	12	-1.245	-0.0018	-2.5 to 2.5	Pass
				0	12	-0.544	-0.0008	-2.5 to 2.5	Pass
				10	12	-1.316	-0.0019	-2.5 to 2.5	Pass
				30	12	-0.973	-0.0014	-2.5 to 2.5	Pass
				40	12	-0.472	-0.0007	-2.5 to 2.5	Pass
	713.5	25	0	20	10.2	-0.844	-0.0012	-2.5 to 2.5	Pass
					12	-0.315	-0.0004	-2.5 to 2.5	Pass
					13.8	-0.830	-0.0012	-2.5 to 2.5	Pass
				-30	12	-1.159	-0.0016	-2.5 to 2.5	Pass
				-20	12	-0.830	-0.0012	-2.5 to 2.5	Pass
				-10	12	-0.601	-0.0008	-2.5 to 2.5	Pass
				0	12	-0.830	-0.0012	-2.5 to 2.5	Pass
				10	12	-0.615	-0.0009	-2.5 to 2.5	Pass
				30	12	-0.601	-0.0008	-2.5 to 2.5	Pass
				40	12	-0.758	-0.0011	-2.5 to 2.5	Pass
				50	12	-1.245	-0.0017	-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	10.2	-1.316	-0.0019	-2.5 to 2.5	Pass
					12	-0.687	-0.0010	-2.5 to 2.5	Pass
					13.8	-0.372	-0.0005	-2.5 to 2.5	Pass
				-30	12	-0.544	-0.0008	-2.5 to 2.5	Pass
				-20	12	-0.229	-0.0003	-2.5 to 2.5	Pass
				-10	12	-0.801	-0.0011	-2.5 to 2.5	Pass
				0	12	-0.129	-0.0002	-2.5 to 2.5	Pass
				10	12	-0.944	-0.0013	-2.5 to 2.5	Pass
				30	12	-0.687	-0.0010	-2.5 to 2.5	Pass
				40	12	-0.730	-0.0010	-2.5 to 2.5	Pass
				50	12	-0.215	-0.0003	-2.5 to 2.5	Pass
	707.5	50	0	20	10.2	-0.815	-0.0012	-2.5 to 2.5	Pass
					12	-1.173	-0.0017	-2.5 to 2.5	Pass
					13.8	-1.030	-0.0015	-2.5 to 2.5	Pass
				-30	12	-0.801	-0.0011	-2.5 to 2.5	Pass
				-20	12	-1.073	-0.0015	-2.5 to 2.5	Pass
				-10	12	-0.815	-0.0012	-2.5 to 2.5	Pass
				0	12	-1.373	-0.0019	-2.5 to 2.5	Pass
				10	12	-1.316	-0.0019	-2.5 to 2.5	Pass
				30	12	-0.615	-0.0009	-2.5 to 2.5	Pass
				40	12	-0.601	-0.0008	-2.5 to 2.5	Pass
				50	12	-0.529	-0.0007	-2.5 to 2.5	Pass
	711	50	0	20	10.2	-1.631	-0.0023	-2.5 to 2.5	Pass
					12	-1.488	-0.0021	-2.5 to 2.5	Pass
					13.8	-1.516	-0.0021	-2.5 to 2.5	Pass
				-30	12	-1.745	-0.0025	-2.5 to 2.5	Pass
				-20	12	-1.874	-0.0026	-2.5 to 2.5	Pass
				-10	12	-1.903	-0.0027	-2.5 to 2.5	Pass
				0	12	-1.931	-0.0027	-2.5 to 2.5	Pass
				10	12	-1.802	-0.0025	-2.5 to 2.5	Pass
				30	12	-1.574	-0.0022	-2.5 to 2.5	Pass
				40	12	-1.917	-0.0027	-2.5 to 2.5	Pass
				50	12	-2.031	-0.0029	-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 / NTV						
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

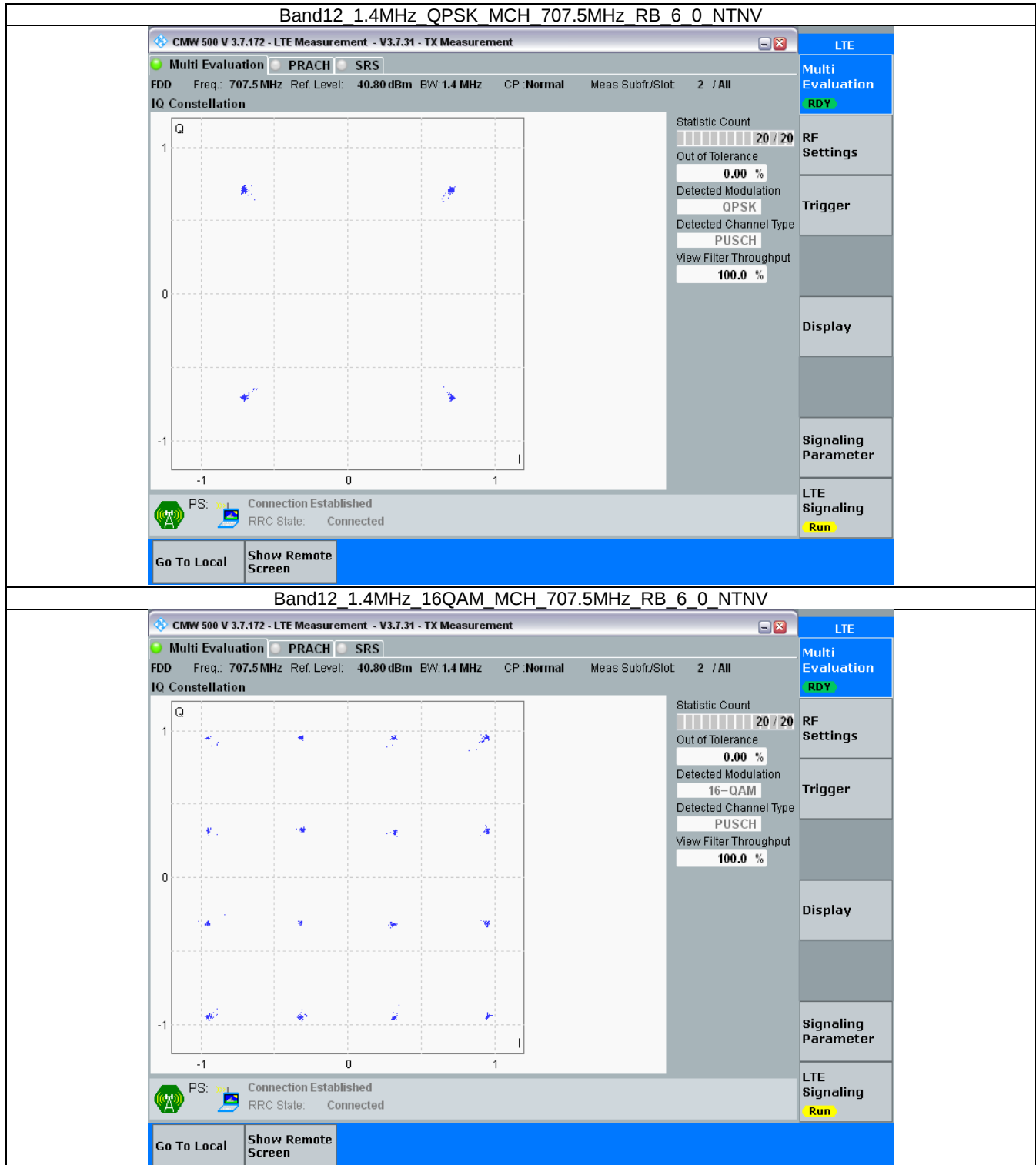
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

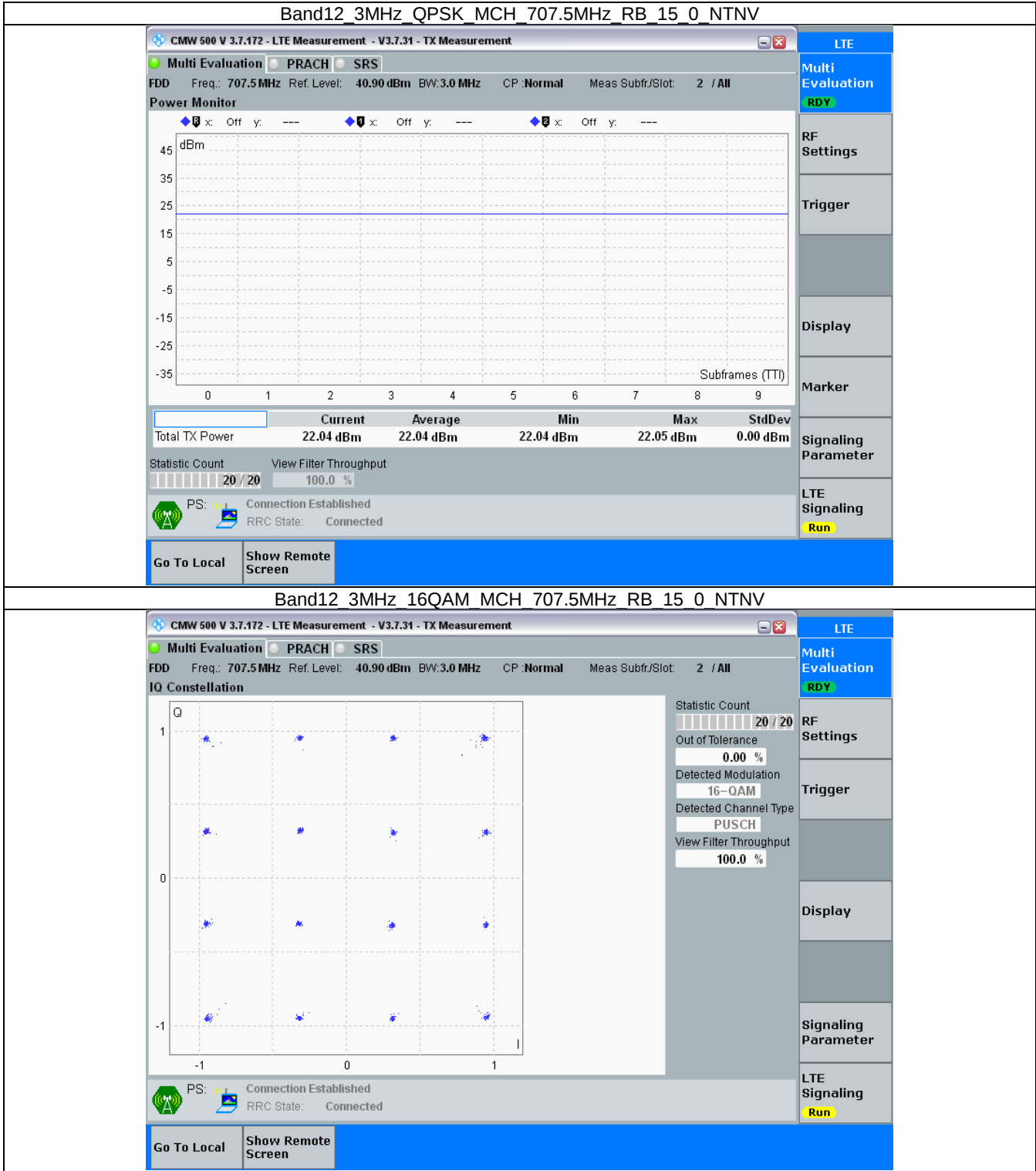
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

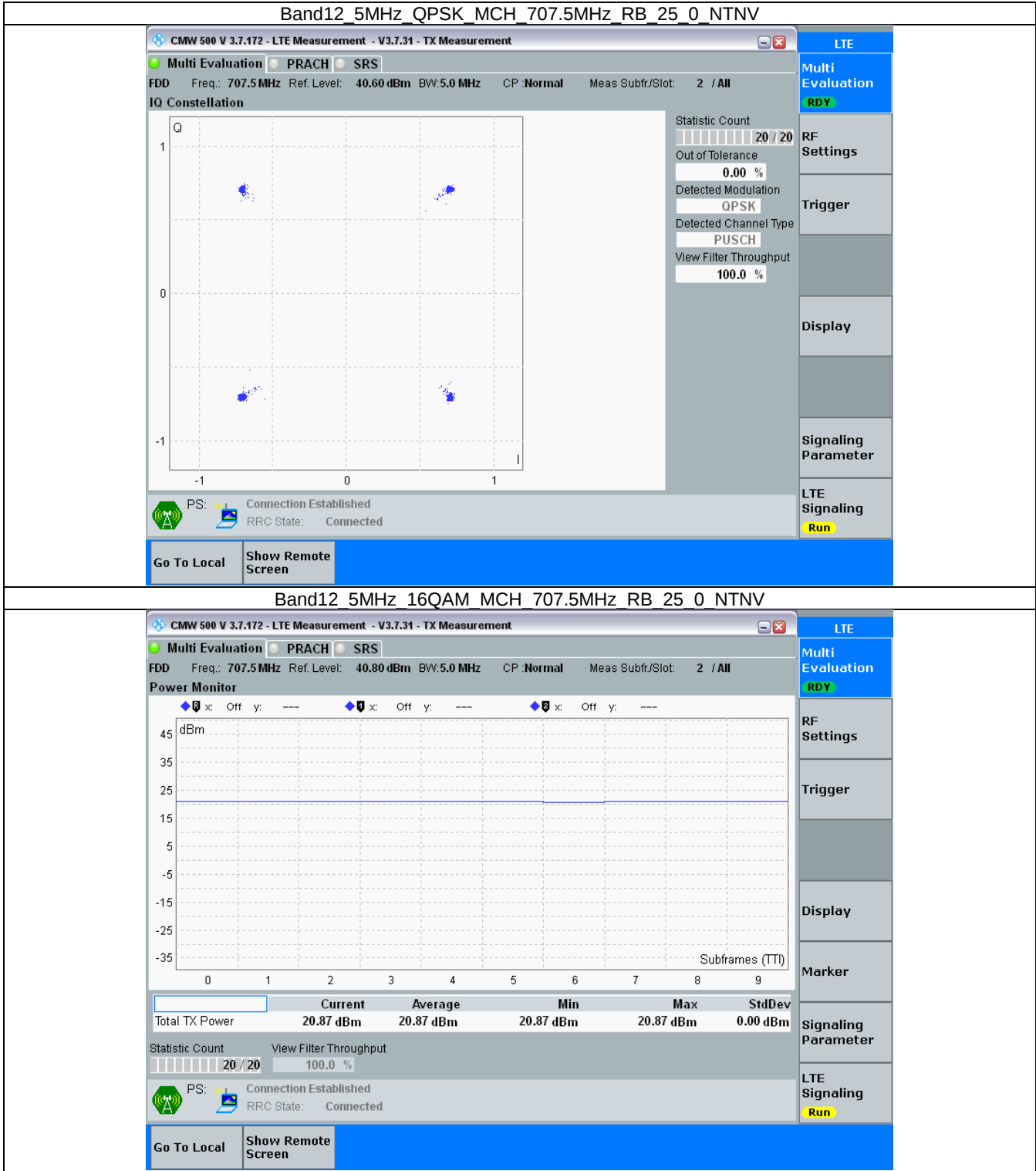
3.2.1 B12_1.4MHz



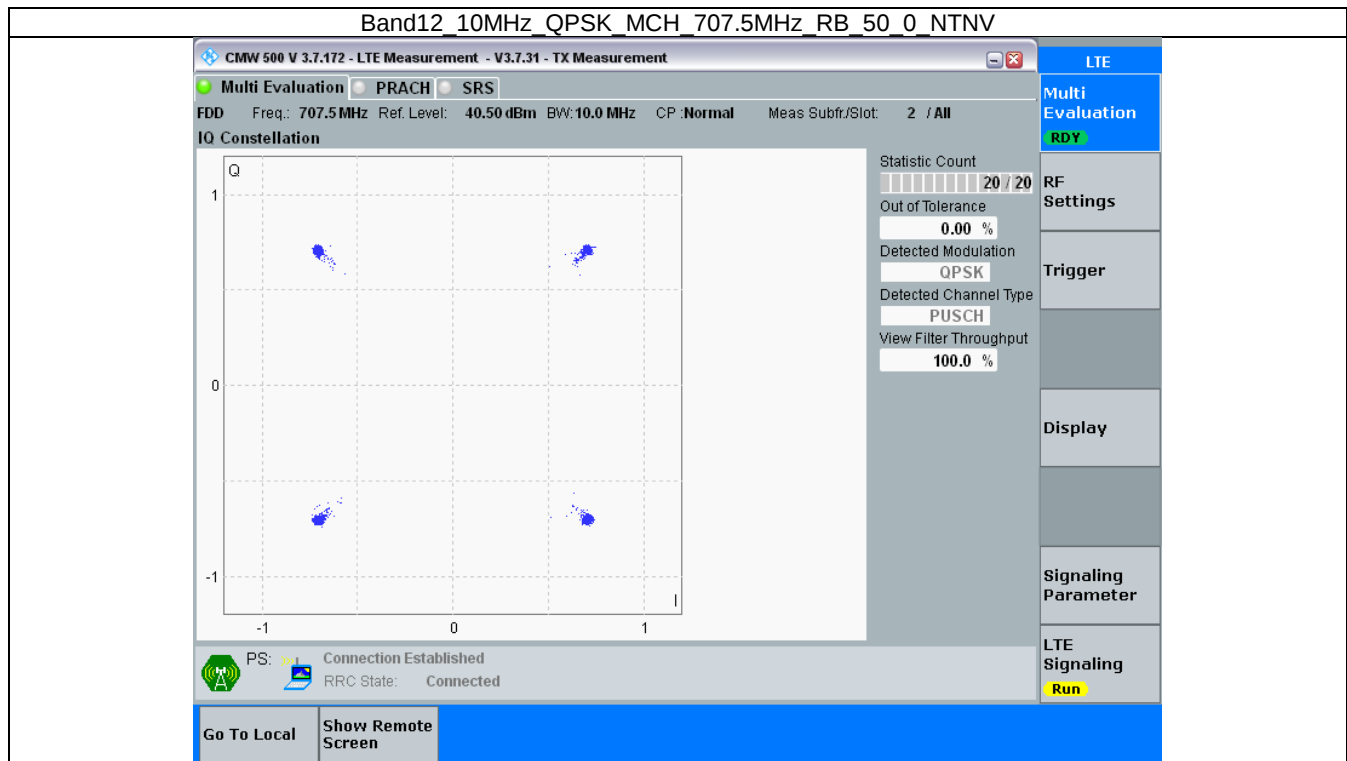
3.2.2 B12_3MHz



3.2.3 B12_5MHz



3.2.4 B12_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

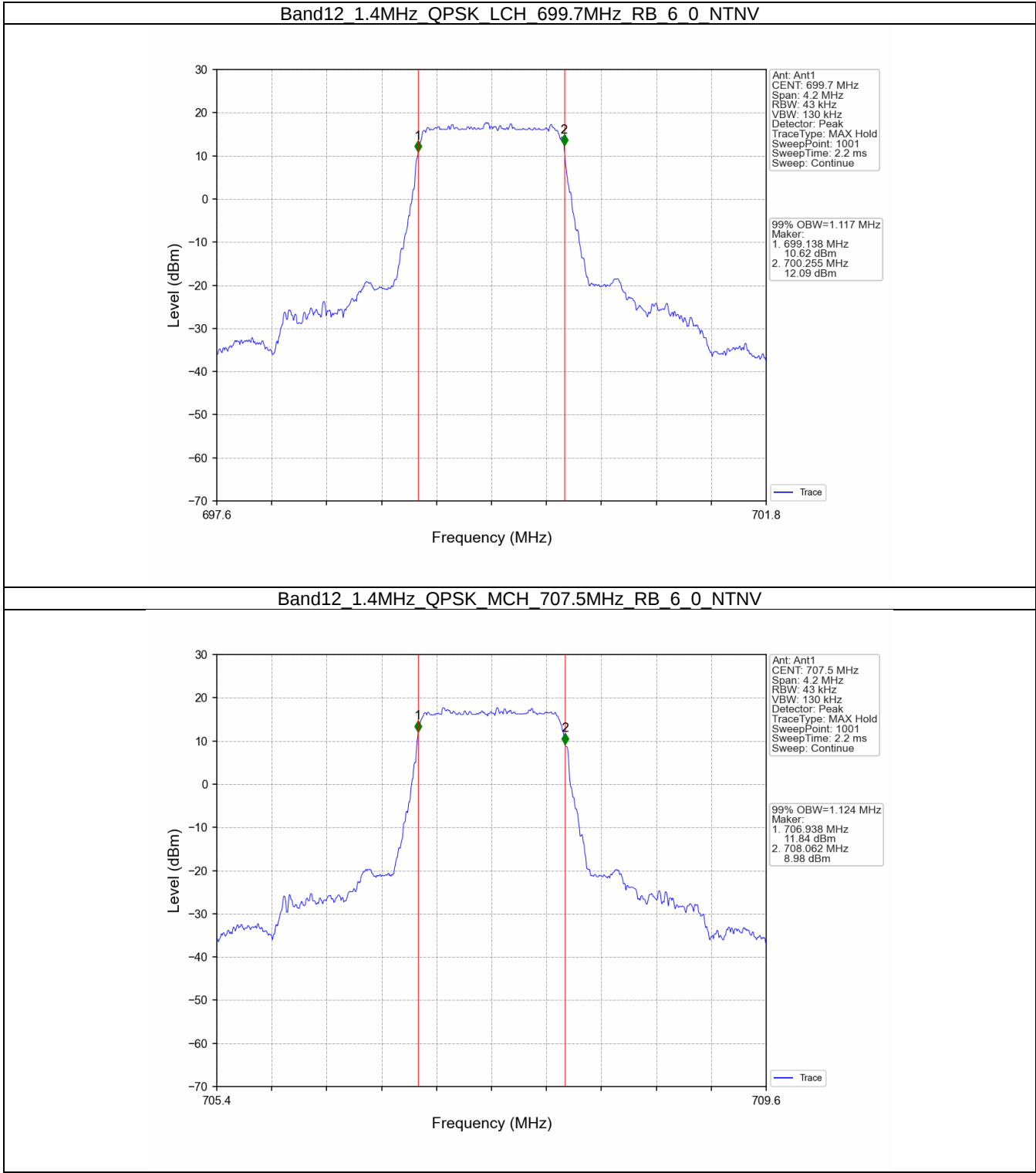
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.117	/	Pass
		707.5	6	0	1.124	/	Pass
		715.3	6	0	1.113	/	Pass
	16QAM	699.7	6	0	1.112	/	Pass
		707.5	6	0	1.106	/	Pass
		715.3	6	0	1.120	/	Pass
3	QPSK	700.5	15	0	2.734	/	Pass
		707.5	15	0	2.749	/	Pass
		714.5	15	0	2.743	/	Pass
	16QAM	700.5	15	0	2.726	/	Pass
		707.5	15	0	2.729	/	Pass
		714.5	15	0	2.730	/	Pass
5	QPSK	701.5	25	0	4.569	/	Pass
		707.5	25	0	4.541	/	Pass
		713.5	25	0	4.546	/	Pass
	16QAM	701.5	25	0	4.541	/	Pass
		707.5	25	0	4.542	/	Pass
		713.5	25	0	4.565	/	Pass
10	QPSK	704	50	0	9.057	/	Pass
		707.5	50	0	9.029	/	Pass
		711	50	0	8.989	/	Pass

4.1.2 Band12_XDB

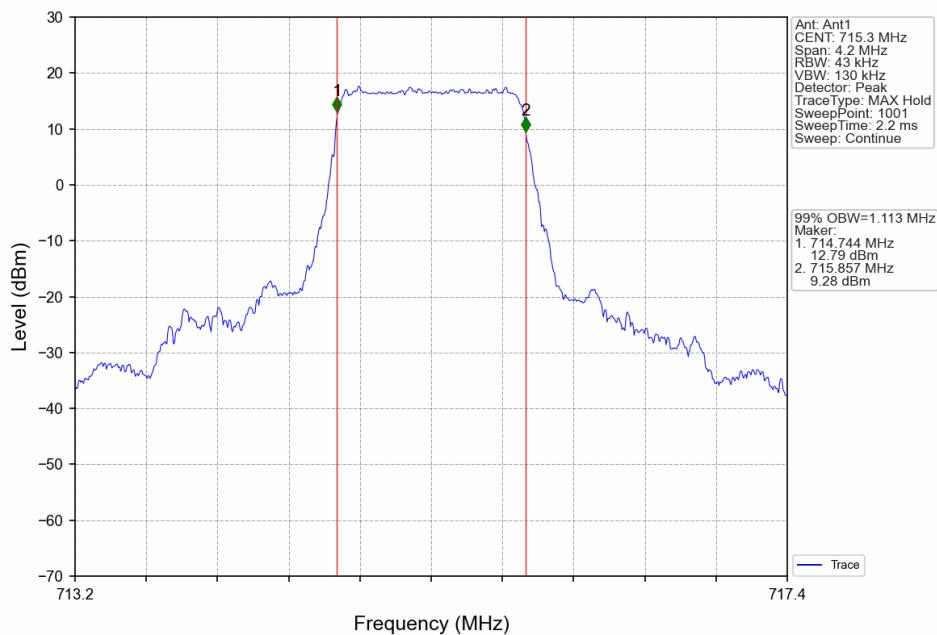
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.327	/	Pass
		707.5	6	0	1.323	/	Pass
		715.3	6	0	1.346	/	Pass
	16QAM	699.7	6	0	1.330	/	Pass
		707.5	6	0	1.322	/	Pass
		715.3	6	0	1.337	/	Pass
3	QPSK	700.5	15	0	3.065	/	Pass
		707.5	15	0	3.053	/	Pass
		714.5	15	0	3.056	/	Pass
	16QAM	700.5	15	0	3.073	/	Pass
		707.5	15	0	3.051	/	Pass
		714.5	15	0	3.042	/	Pass
5	QPSK	701.5	25	0	5.108	/	Pass
		707.5	25	0	4.999	/	Pass
		713.5	25	0	5.089	/	Pass
	16QAM	701.5	25	0	5.090	/	Pass
		707.5	25	0	5.048	/	Pass
		713.5	25	0	5.120	/	Pass
10	QPSK	704	50	0	10.123	/	Pass
		707.5	50	0	10.006	/	Pass
		711	50	0	10.014	/	Pass

4.2 Test Graph

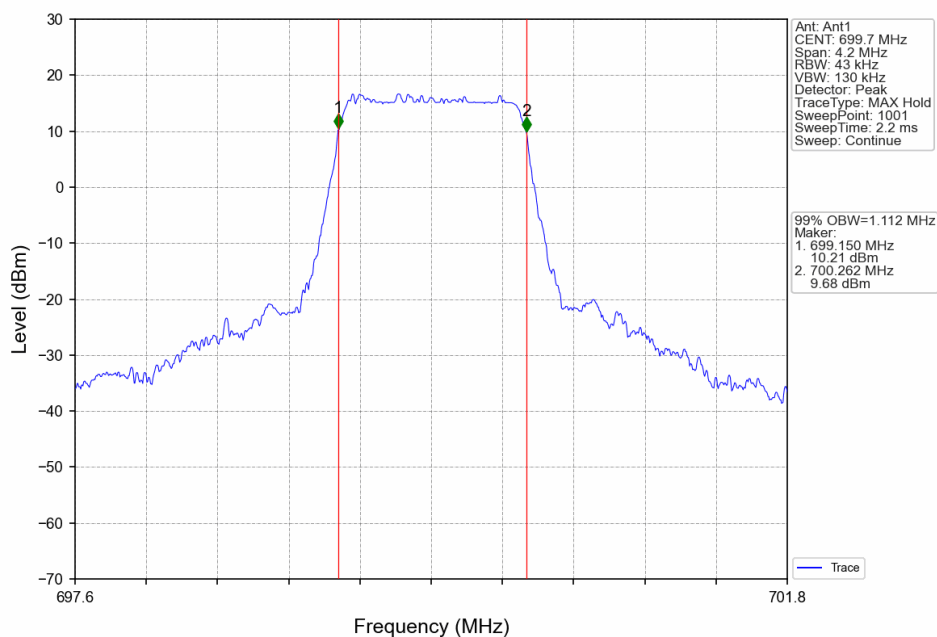
4.2.1 Band12_OBW



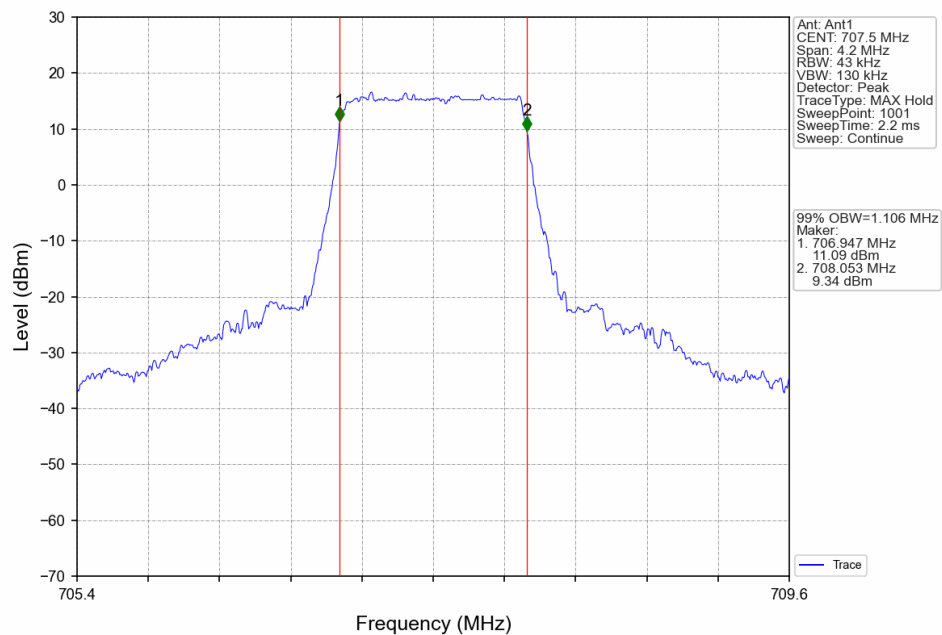
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



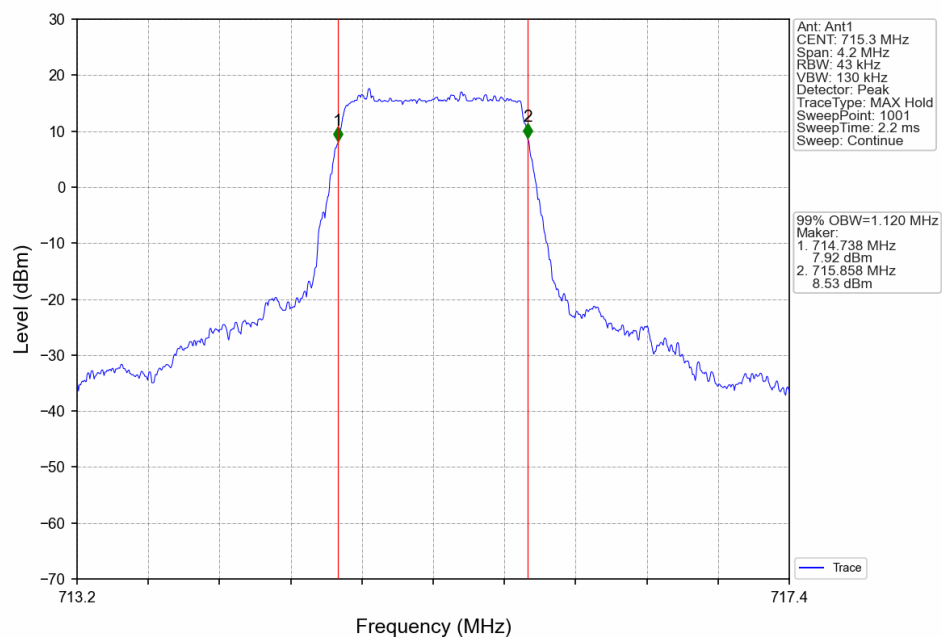
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



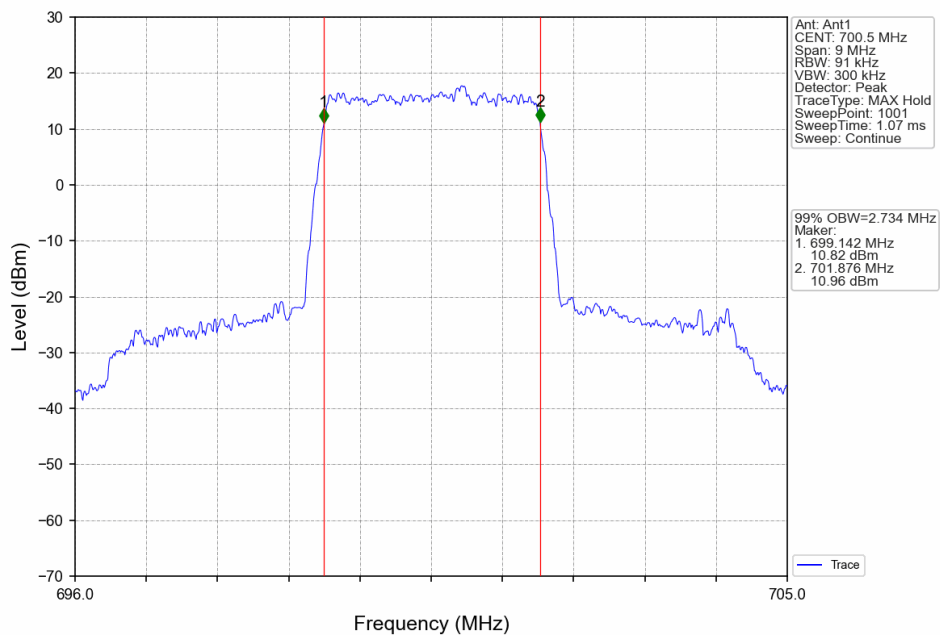
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



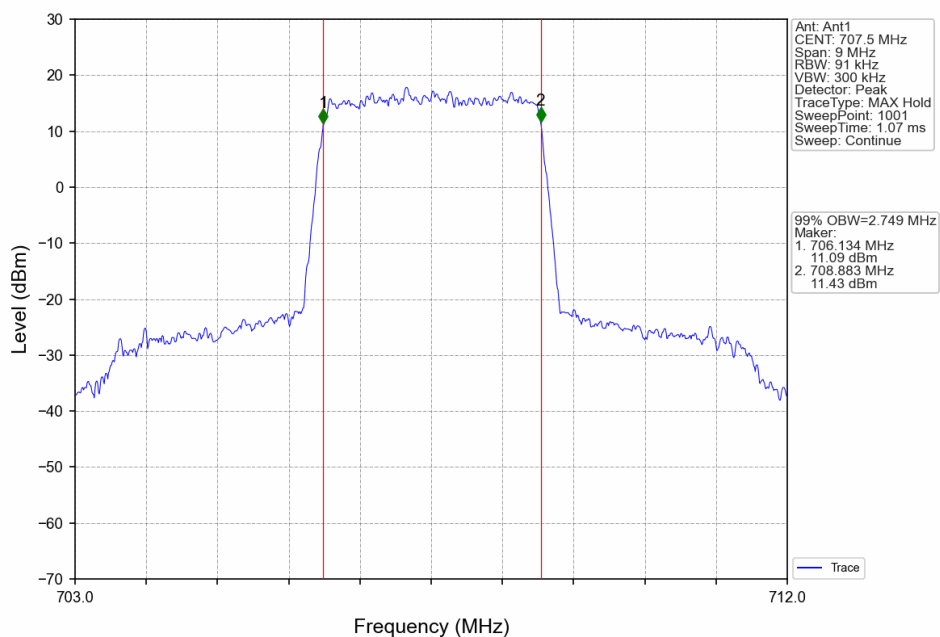
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



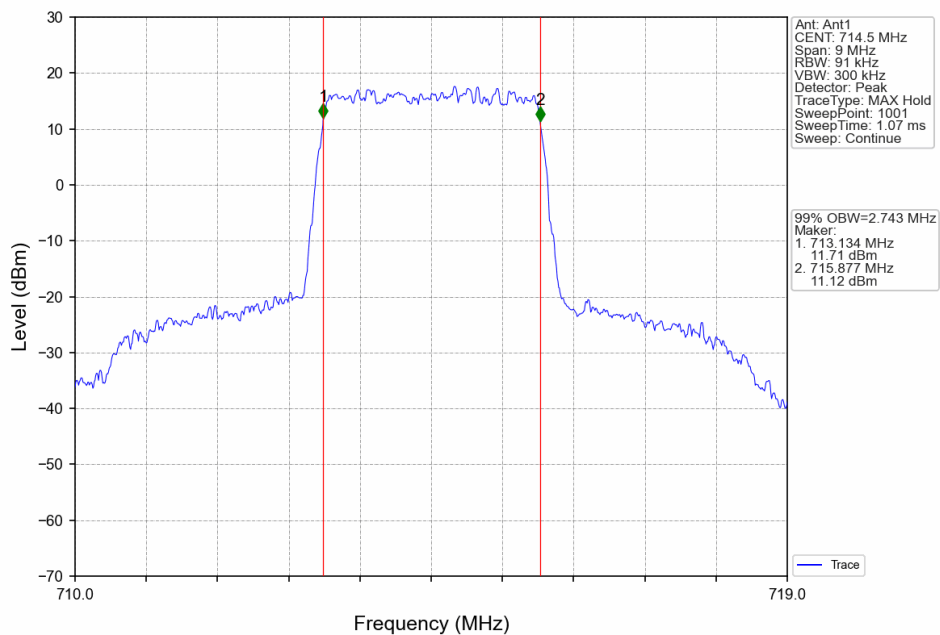
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



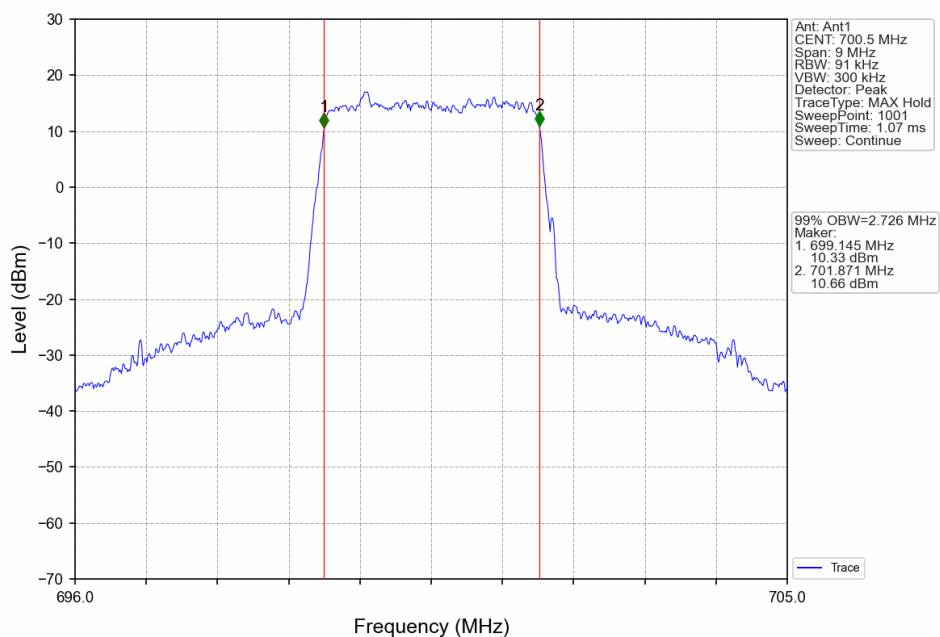
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

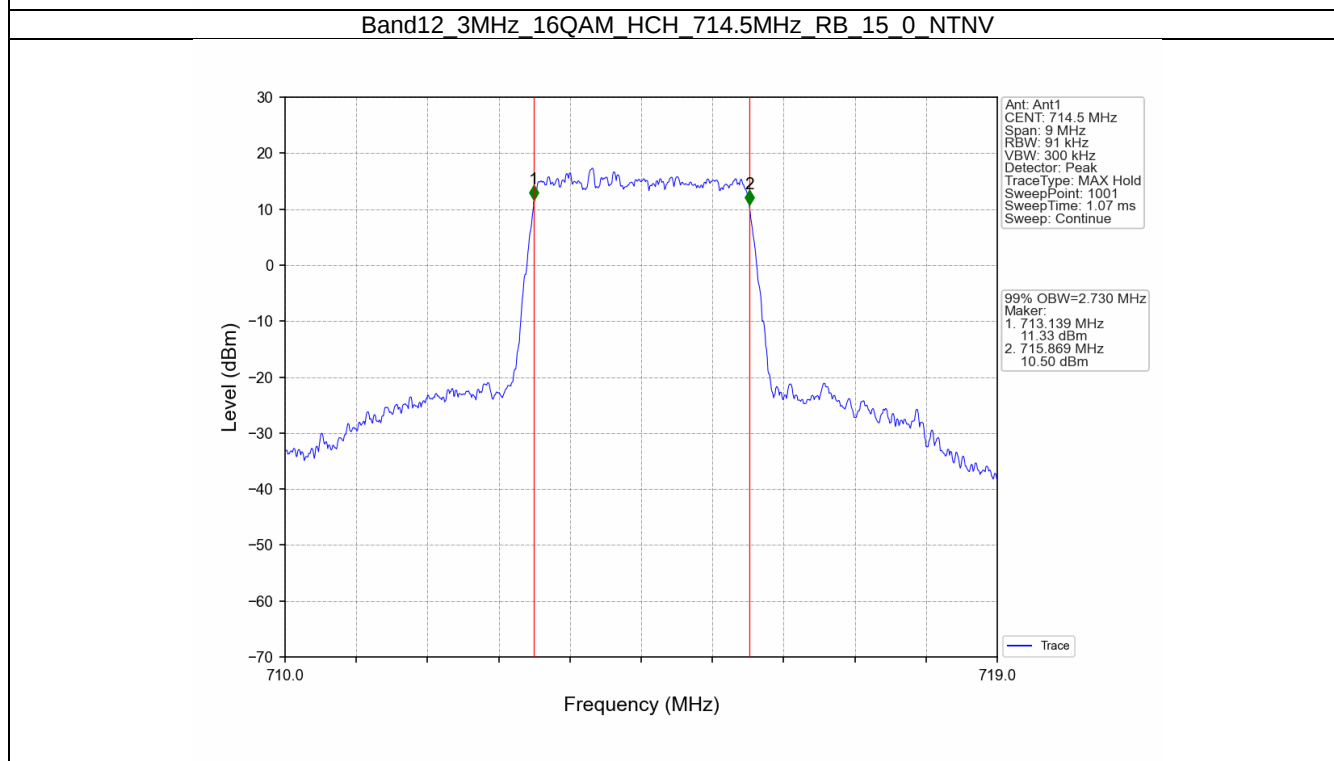
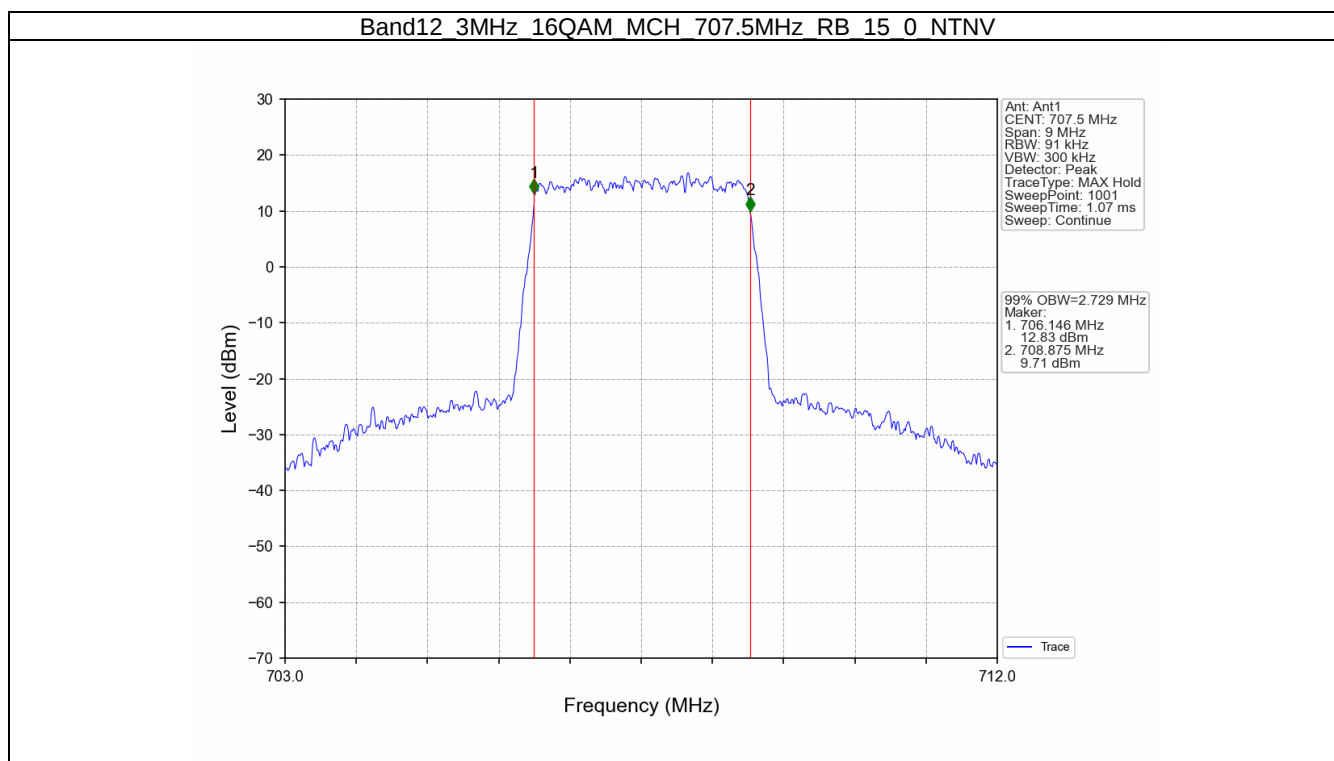


Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTV

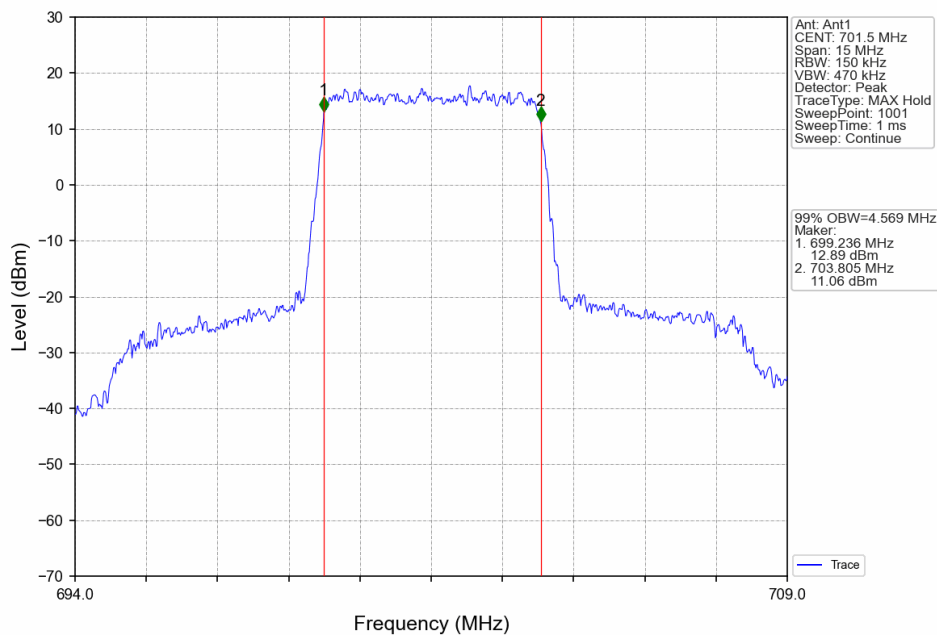


Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTV

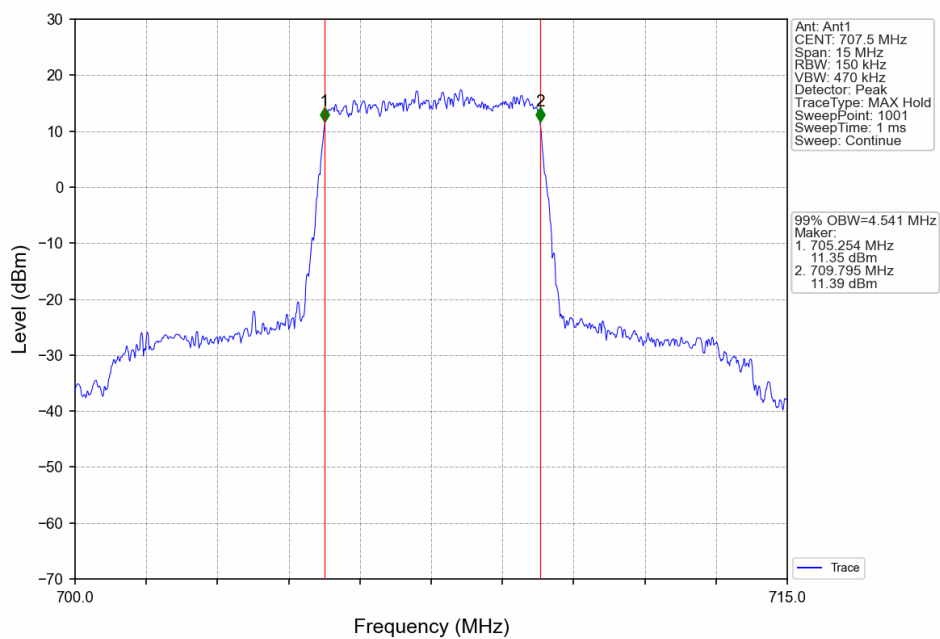




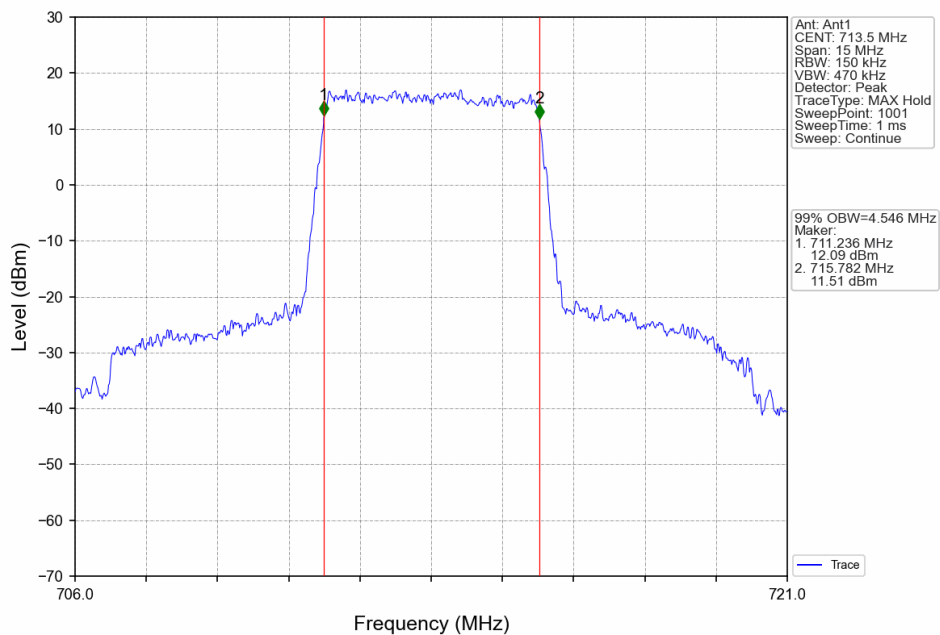
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



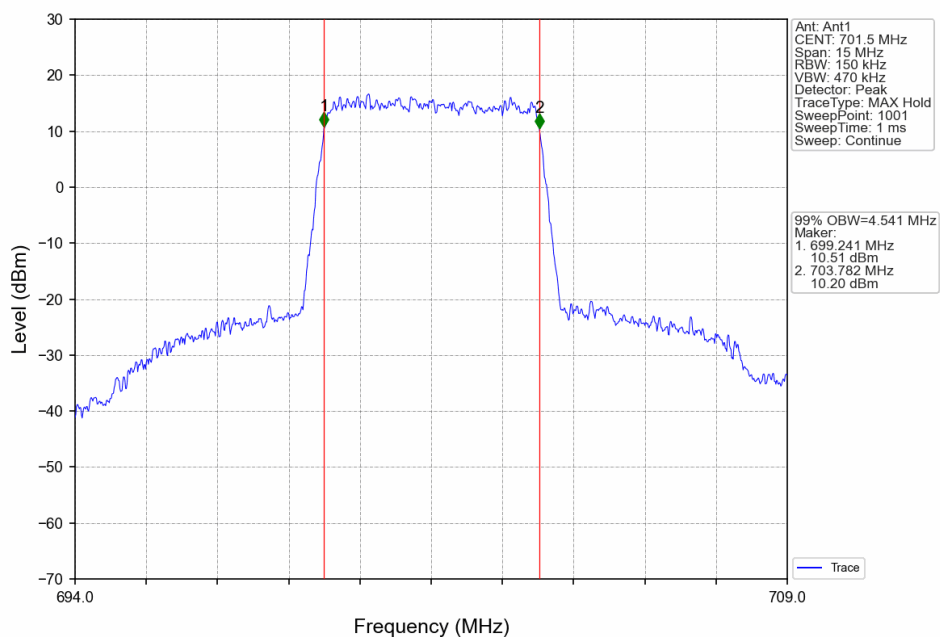
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

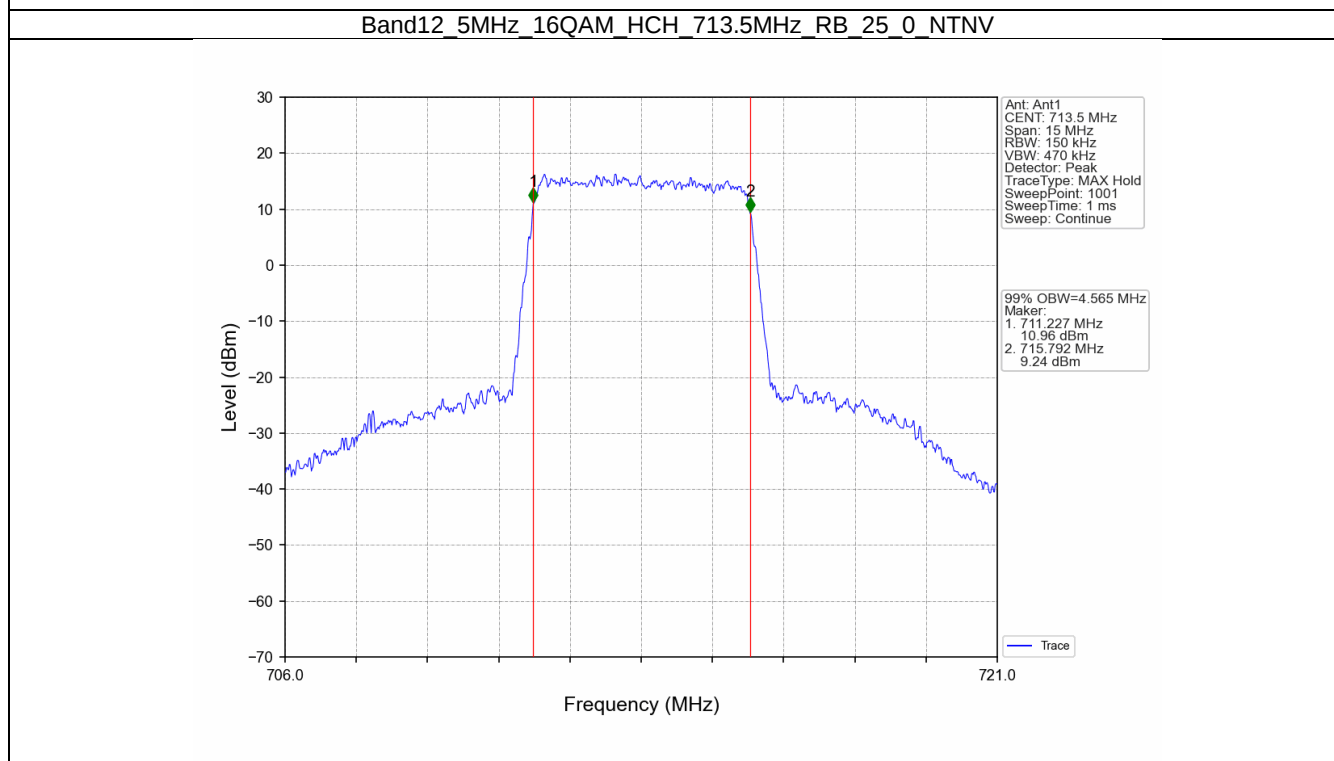
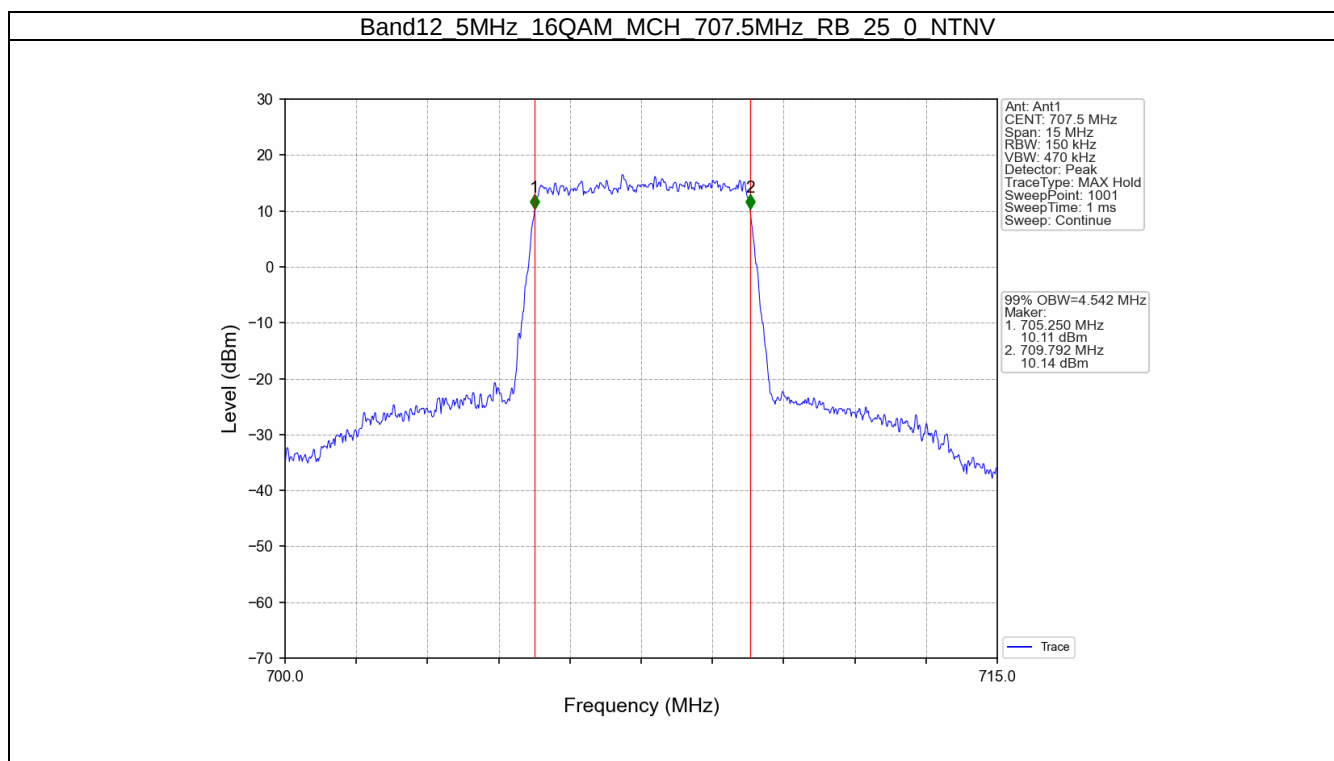


Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTV

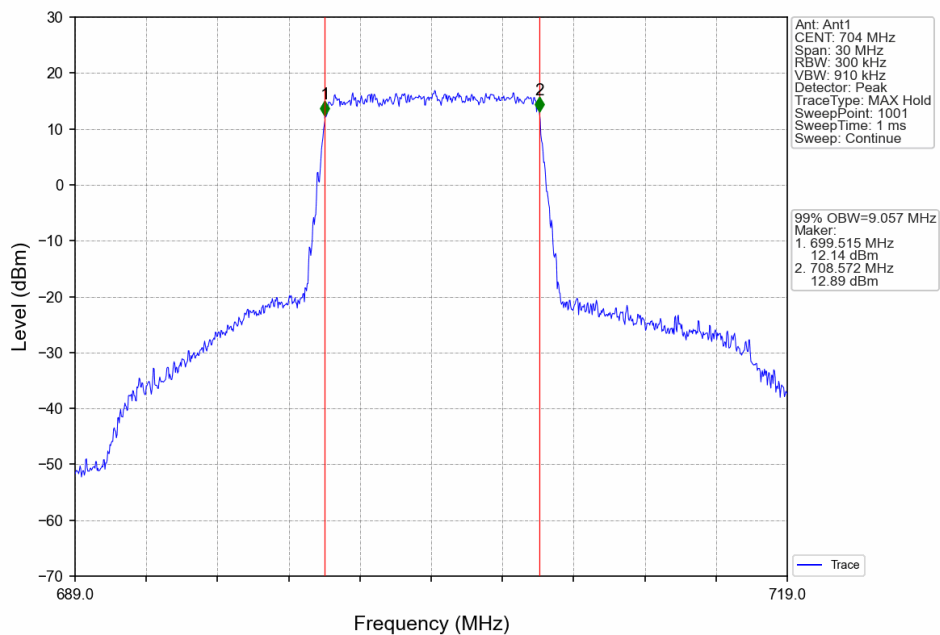


Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTV

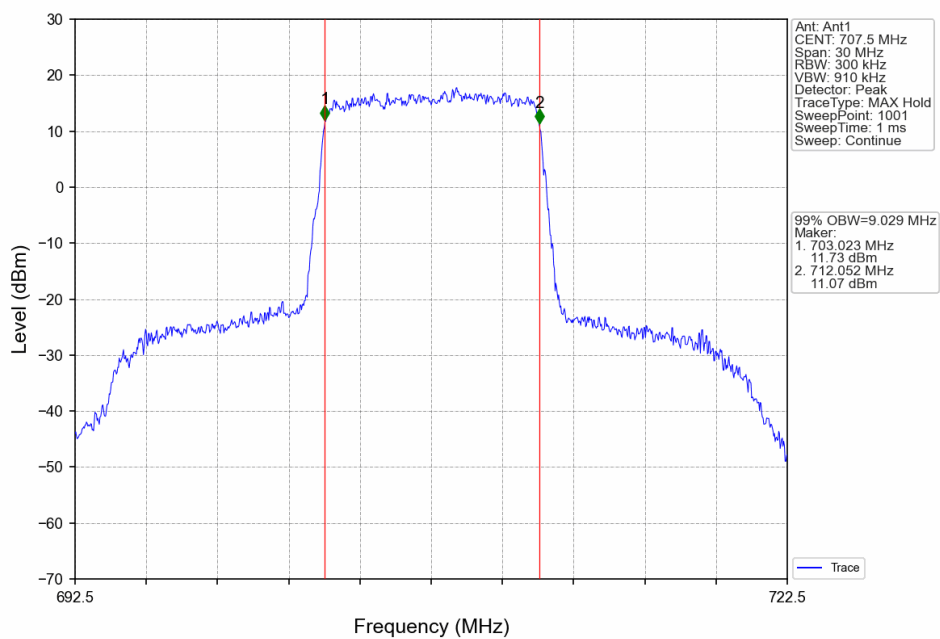


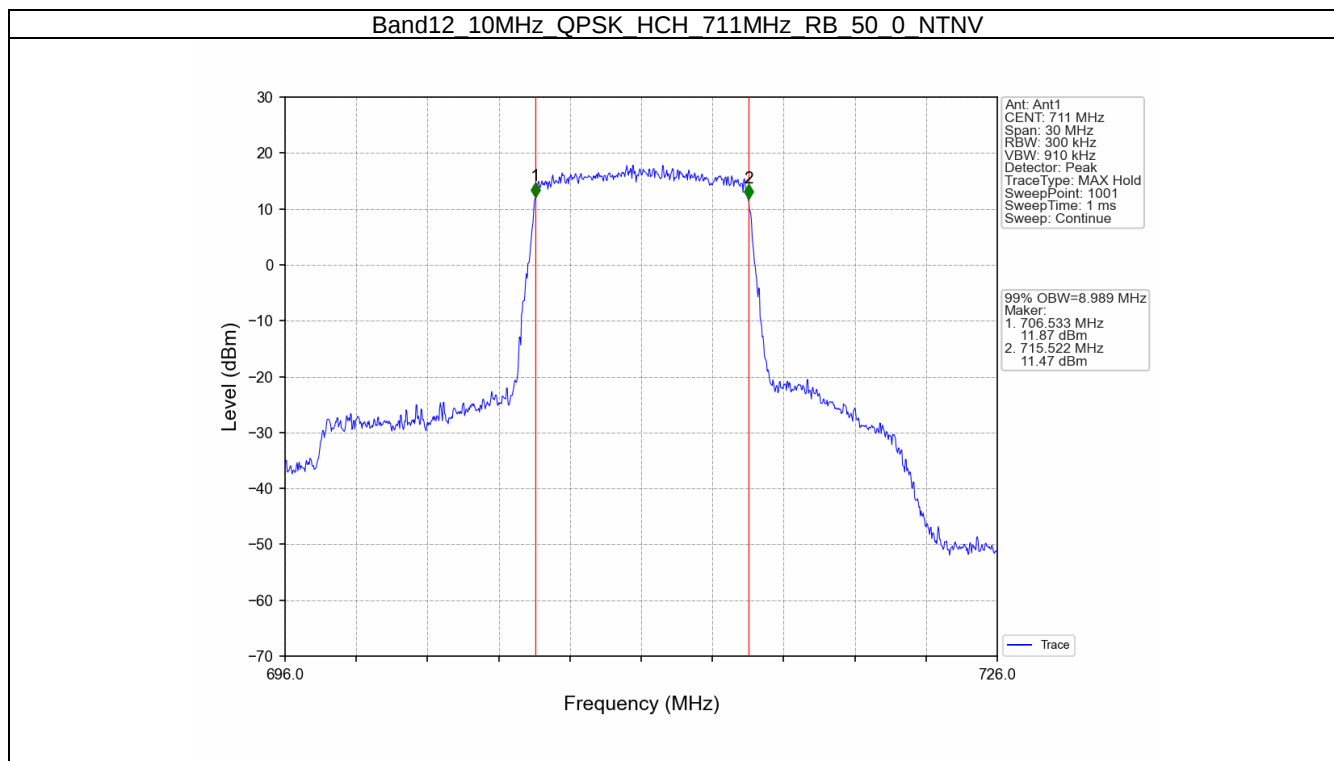


Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN

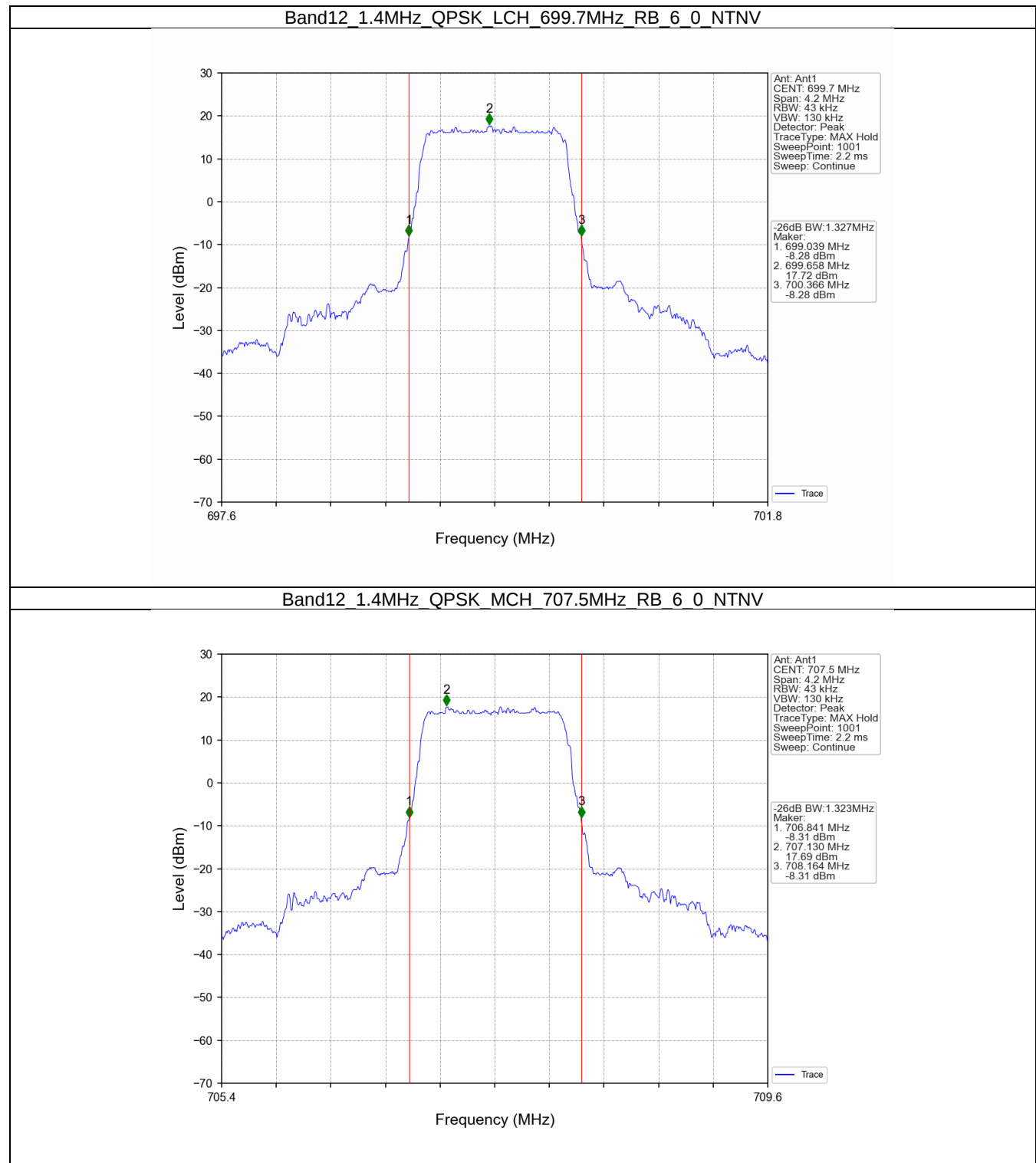


Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN

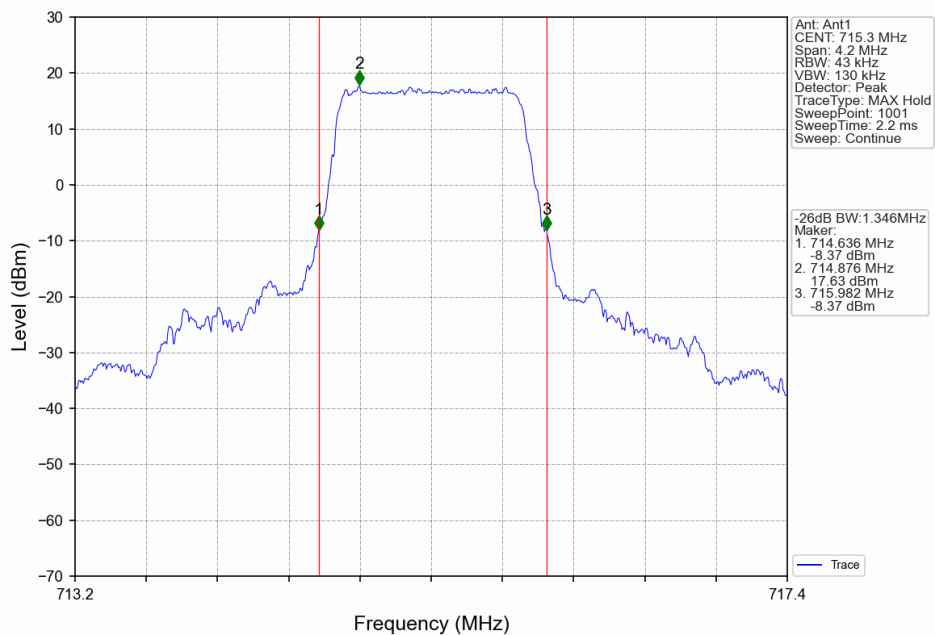




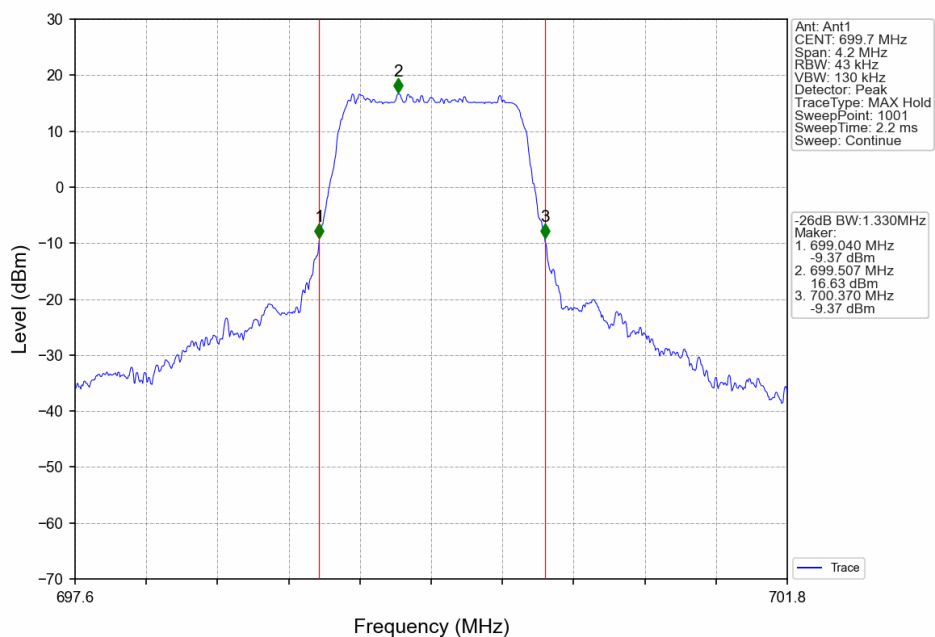
4.2.2 Band12_XDB



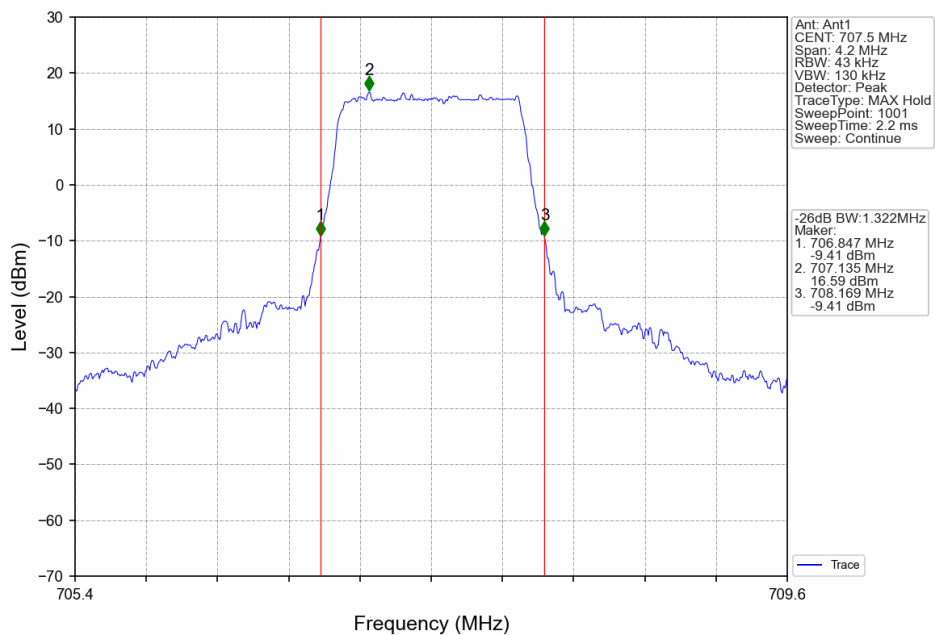
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



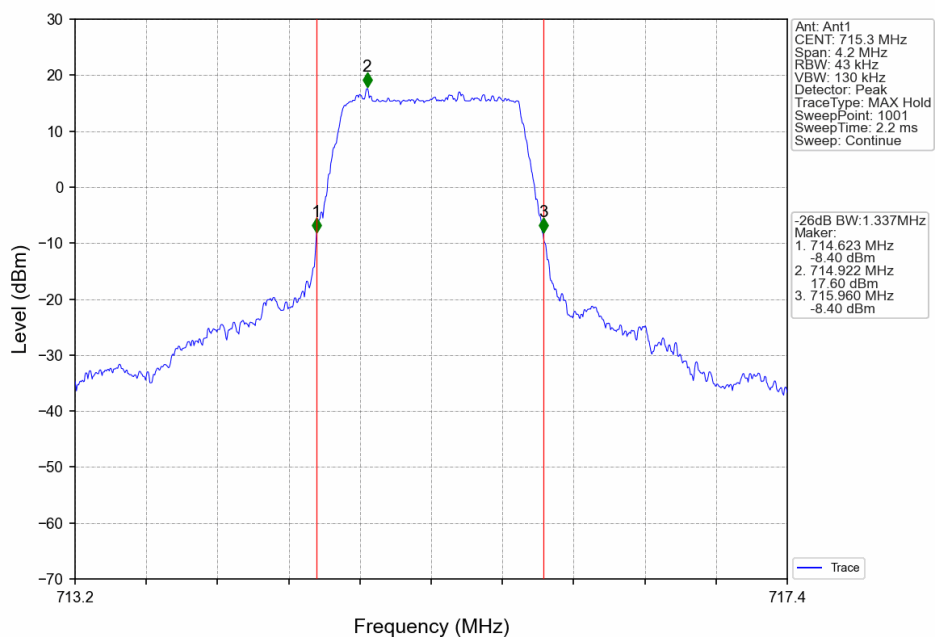
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV

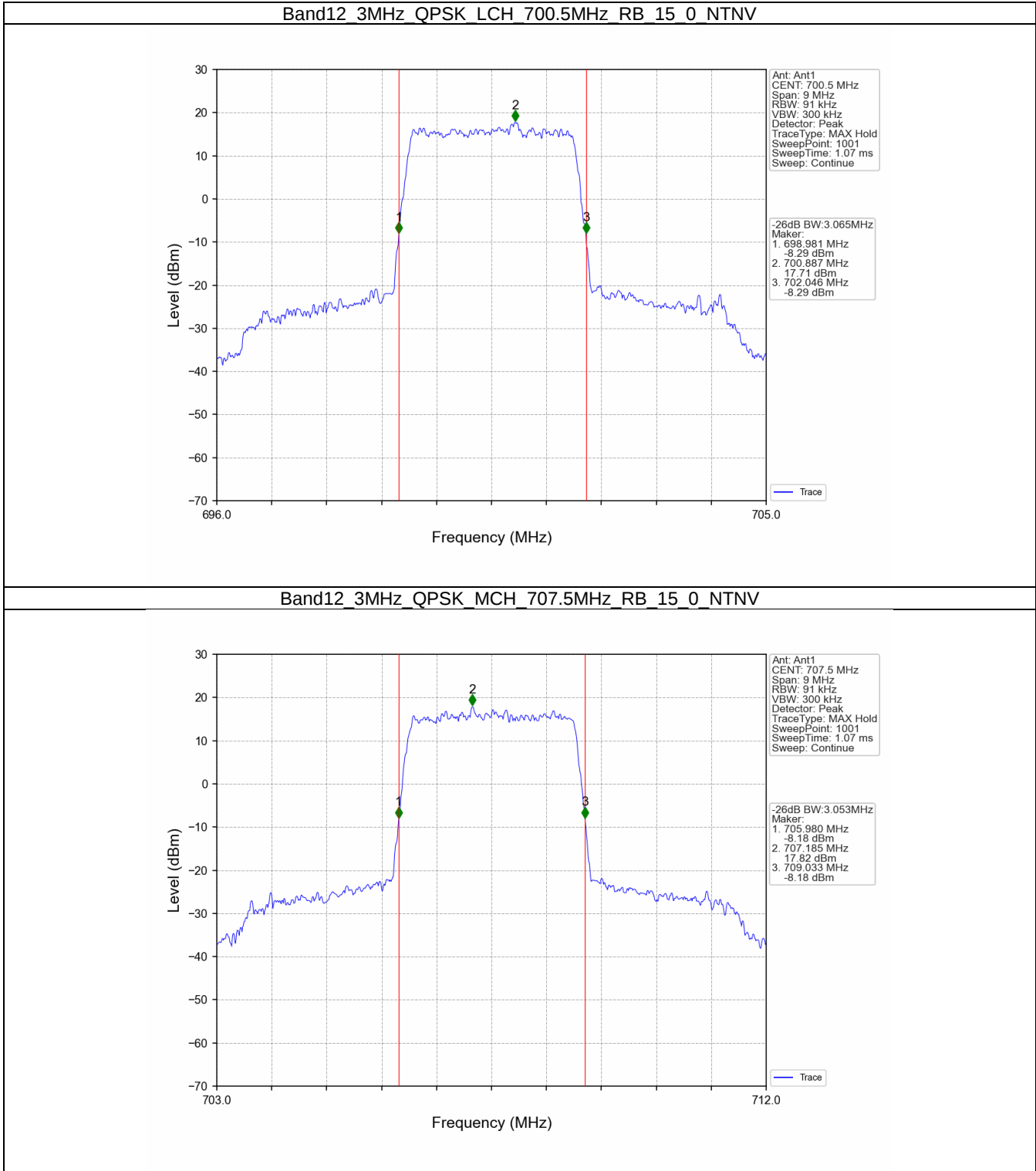


Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV

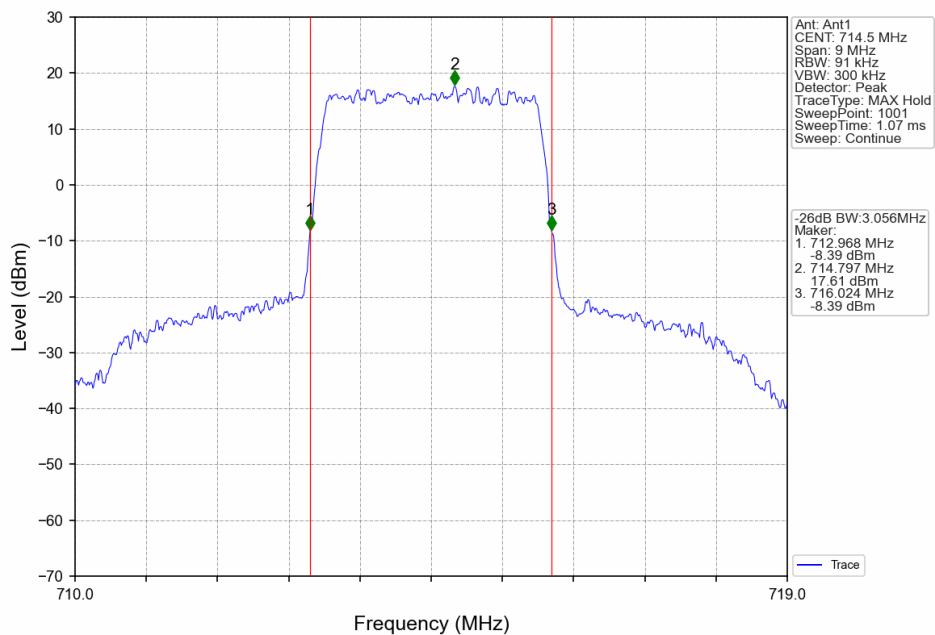


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

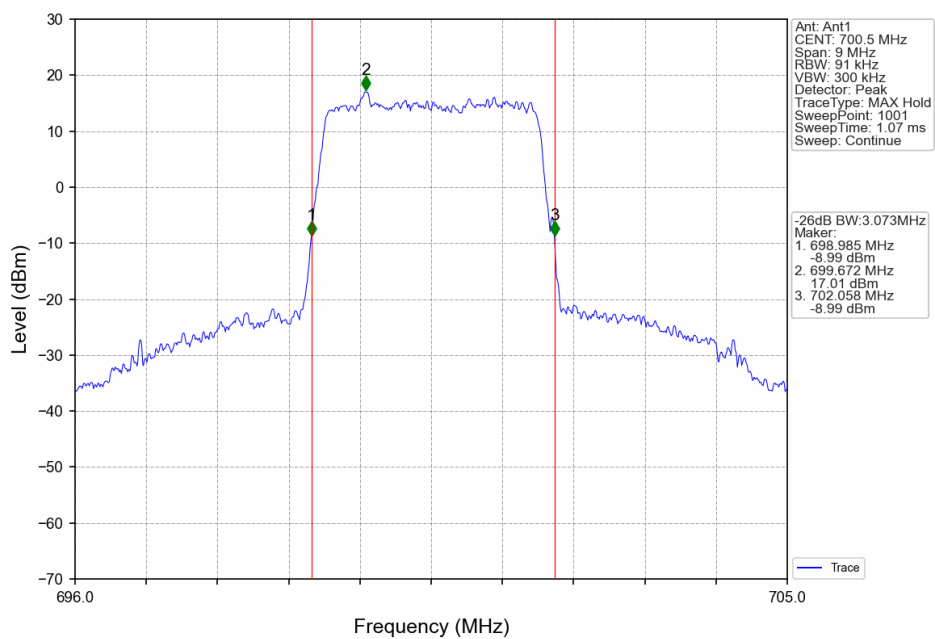




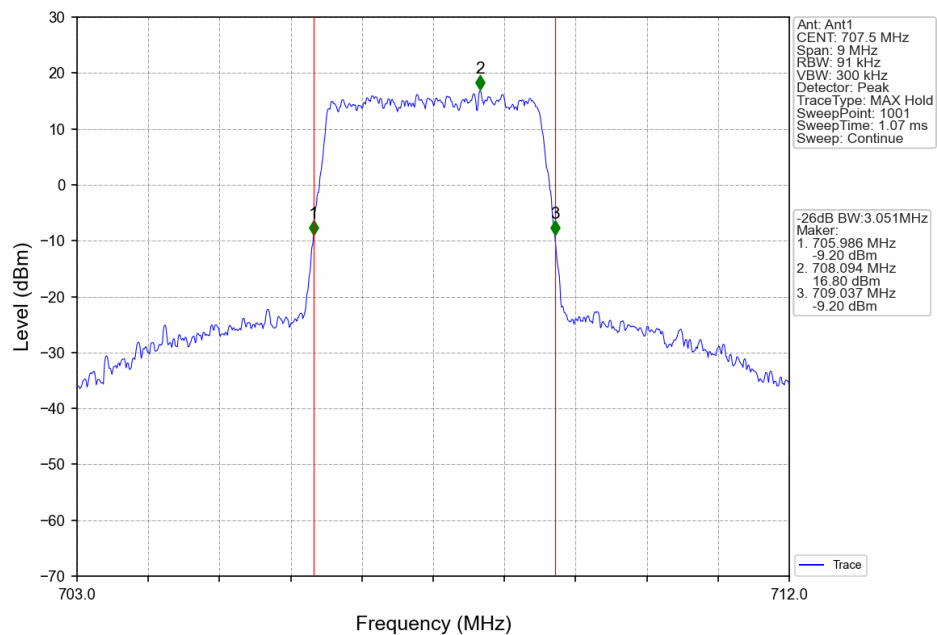
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



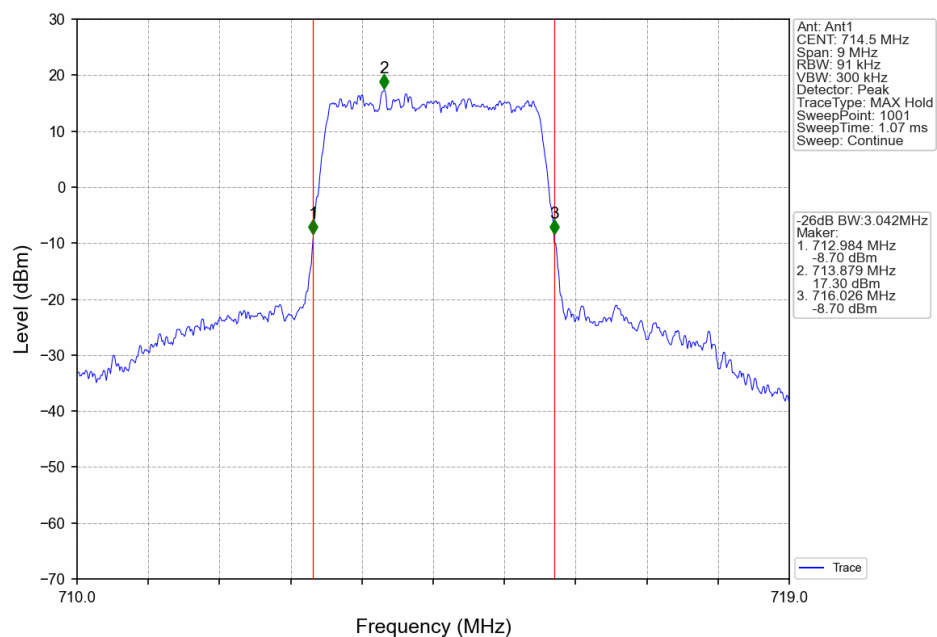
Band12 3MHz 16QAM LCH 700.5MHz RB 15 0 NTNV



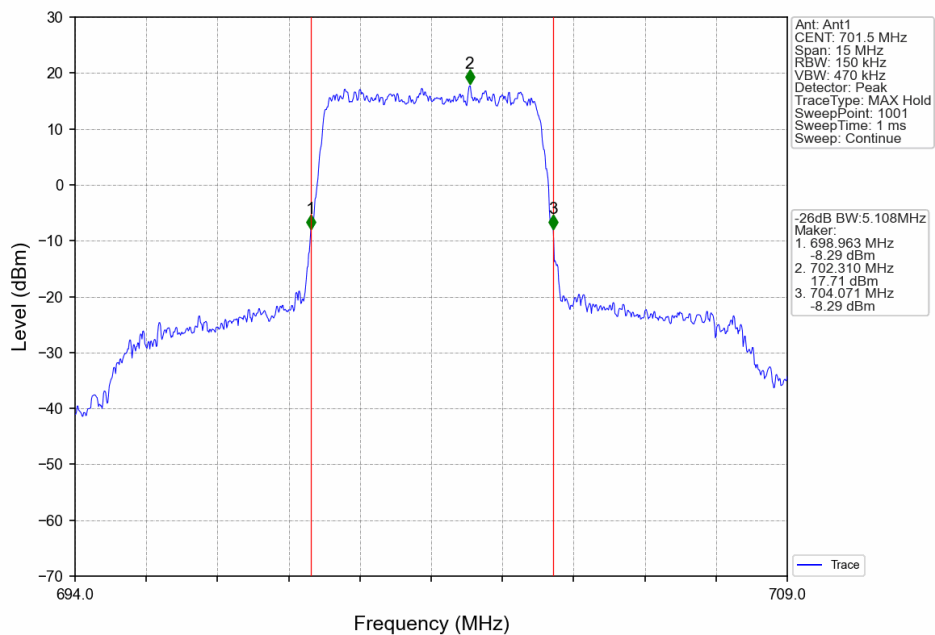
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



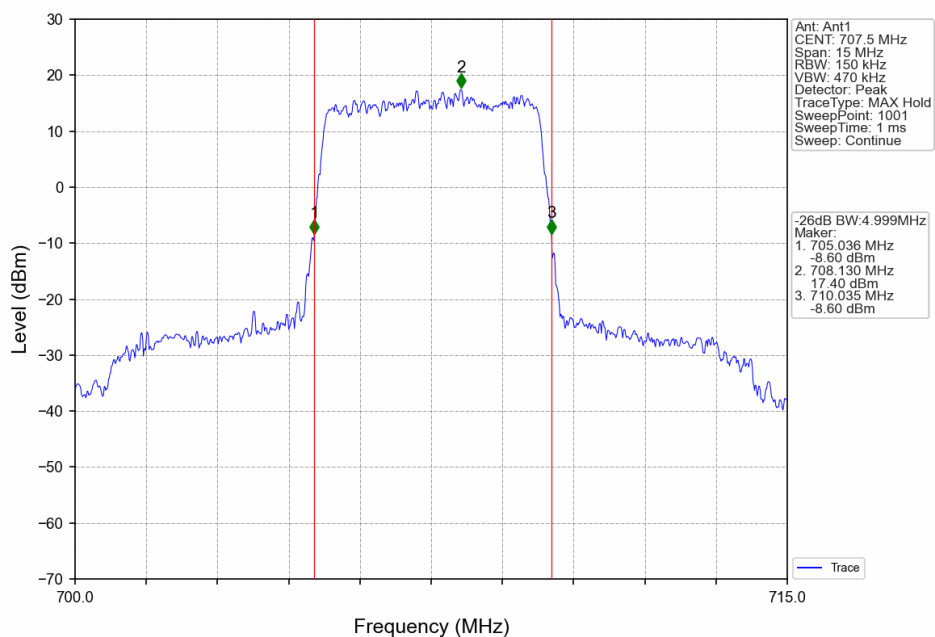
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



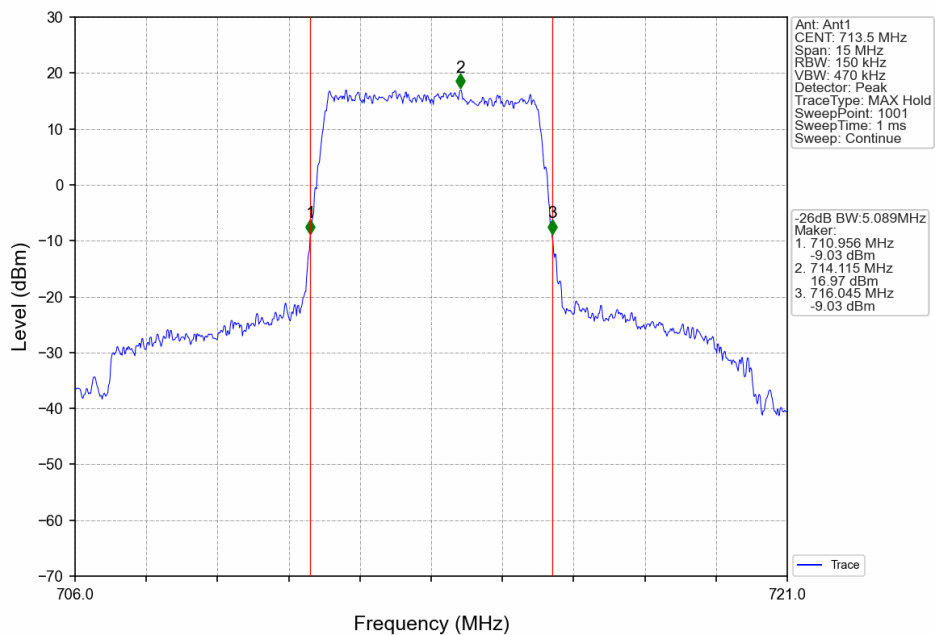
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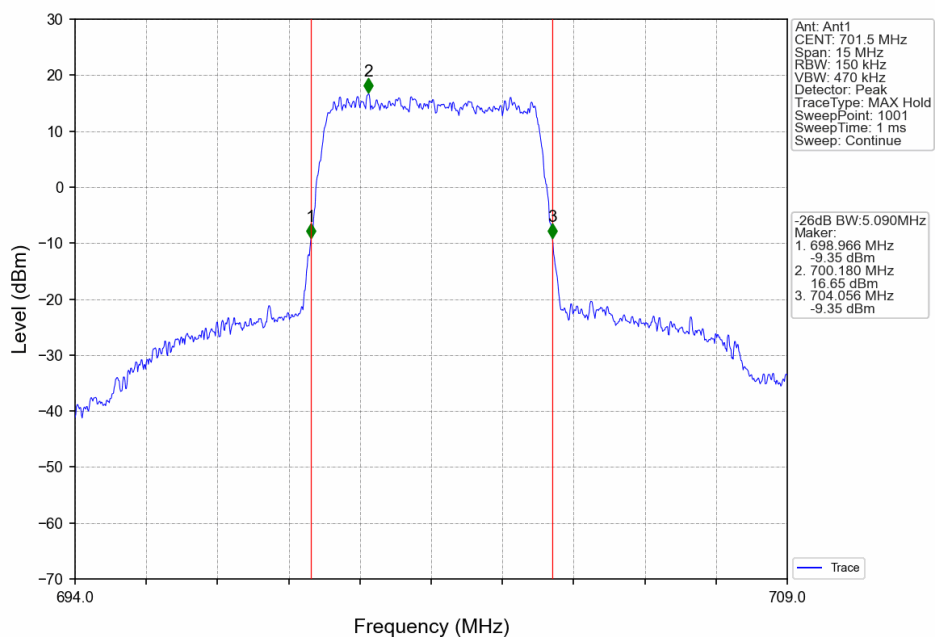
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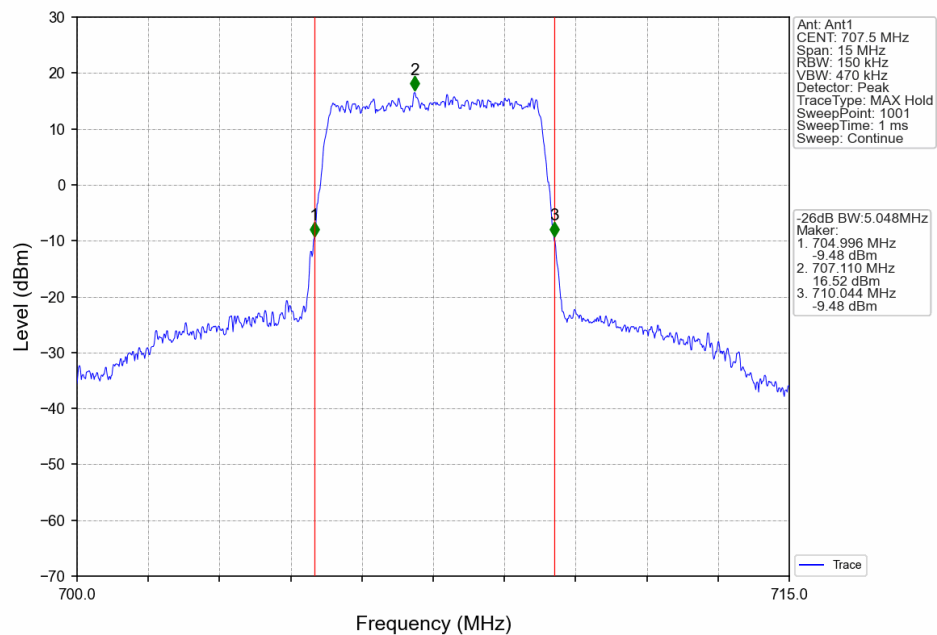
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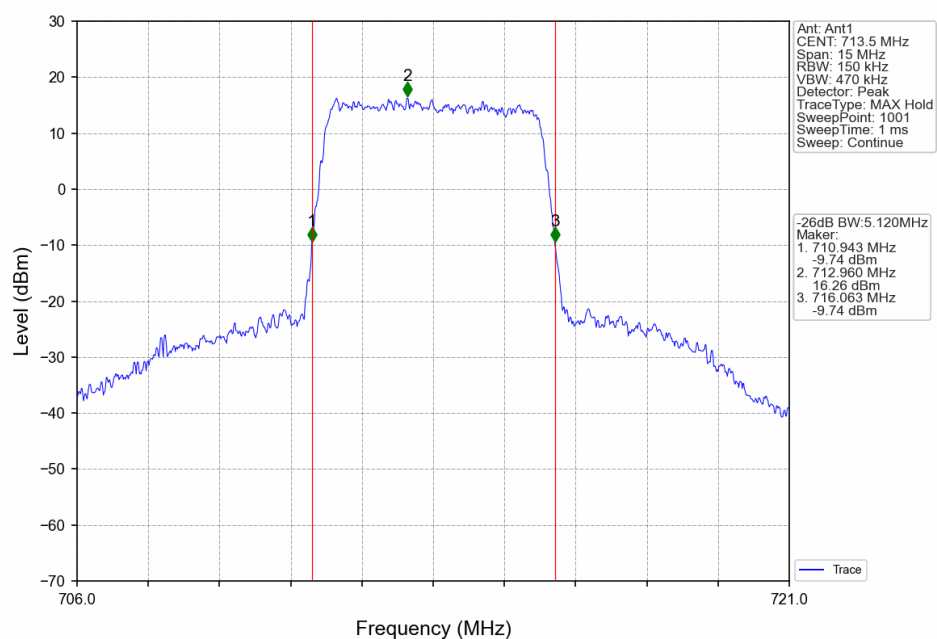
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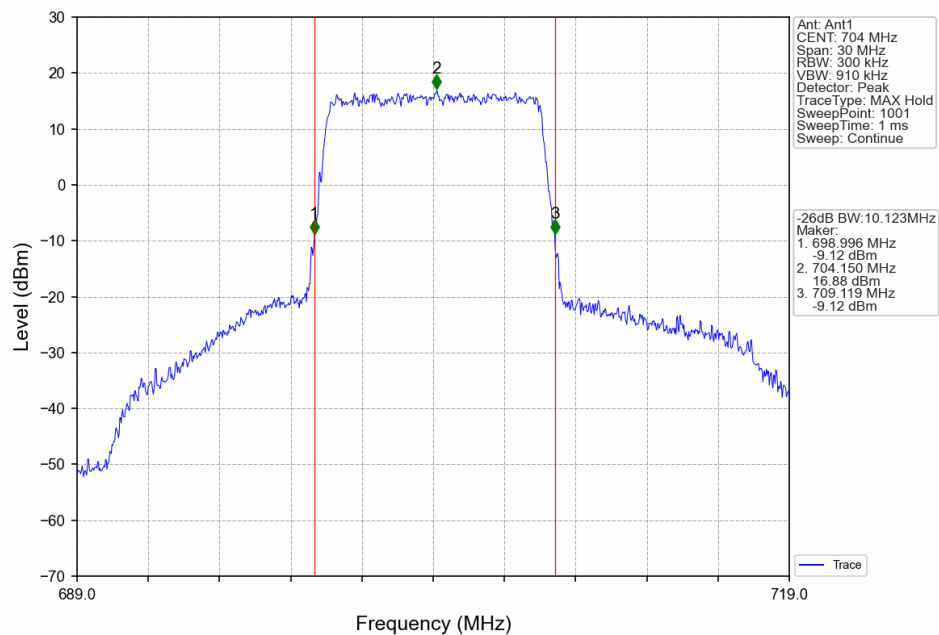
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



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

