

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

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	21.57	1.28	20.70	<=34.77	Pass
			2	21.92	1.28	21.05	<=34.77	Pass
			5	21.67	1.28	20.80	<=34.77	Pass
		3	0	21.84	1.28	20.97	<=34.77	Pass
			2	21.67	1.28	20.80	<=34.77	Pass
			3	21.70	1.28	20.83	<=34.77	Pass
		6	0	20.73	1.28	19.86	<=34.77	Pass
	707.5	1	0	21.76	1.28	20.89	<=34.77	Pass
			2	21.56	1.28	20.69	<=34.77	Pass
			5	21.72	1.28	20.85	<=34.77	Pass
		3	0	21.68	1.28	20.81	<=34.77	Pass
			2	21.75	1.28	20.88	<=34.77	Pass
			3	21.81	1.28	20.94	<=34.77	Pass
		6	0	20.76	1.28	19.89	<=34.77	Pass
	715.3	1	0	21.72	1.28	20.85	<=34.77	Pass
			2	21.65	1.28	20.78	<=34.77	Pass
			5	21.61	1.28	20.74	<=34.77	Pass
		3	0	21.64	1.28	20.77	<=34.77	Pass
			2	21.71	1.28	20.84	<=34.77	Pass
			3	21.73	1.28	20.86	<=34.77	Pass
		6	0	20.74	1.28	19.87	<=34.77	Pass
16QAM	699.7	1	0	20.38	1.28	19.51	<=34.77	Pass
			2	20.63	1.28	19.76	<=34.77	Pass
			5	20.59	1.28	19.72	<=34.77	Pass
		3	0	20.78	1.28	19.91	<=34.77	Pass
			2	20.87	1.28	20.00	<=34.77	Pass
			3	20.74	1.28	19.87	<=34.77	Pass
		6	0	19.46	1.28	18.59	<=34.77	Pass
	707.5	1	0	20.33	1.28	19.46	<=34.77	Pass
			2	21.42	1.28	20.55	<=34.77	Pass
			5	21.35	1.28	20.48	<=34.77	Pass
		3	0	20.53	1.28	19.66	<=34.77	Pass
			2	20.47	1.28	19.60	<=34.77	Pass
			3	20.54	1.28	19.67	<=34.77	Pass
		6	0	19.66	1.28	18.79	<=34.77	Pass
	715.3	1	0	20.39	1.28	19.52	<=34.77	Pass
			2	20.48	1.28	19.61	<=34.77	Pass
			5	20.82	1.28	19.95	<=34.77	Pass
		3	0	20.59	1.28	19.72	<=34.77	Pass
			2	20.80	1.28	19.93	<=34.77	Pass
			3	20.73	1.28	19.86	<=34.77	Pass
		6	0	19.73	1.28	18.86	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	21.59	1.28	20.72	<=34.77	Pass
			7	21.95	1.28	21.08	<=34.77	Pass
			14	21.76	1.28	20.89	<=34.77	Pass
		8	0	20.76	1.28	19.89	<=34.77	Pass
			4	20.81	1.28	19.94	<=34.77	Pass
			7	20.85	1.28	19.98	<=34.77	Pass
		15	0	20.68	1.28	19.81	<=34.77	Pass
	707.5	1	0	21.67	1.28	20.80	<=34.77	Pass
			7	21.94	1.28	21.07	<=34.77	Pass
			14	21.92	1.28	21.05	<=34.77	Pass
		8	0	20.68	1.28	19.81	<=34.77	Pass
			4	20.70	1.28	19.83	<=34.77	Pass
			7	20.73	1.28	19.86	<=34.77	Pass
		15	0	20.76	1.28	19.89	<=34.77	Pass
	714.5	1	0	21.67	1.28	20.80	<=34.77	Pass
			7	21.69	1.28	20.82	<=34.77	Pass
			14	21.68	1.28	20.81	<=34.77	Pass
		8	0	20.78	1.28	19.91	<=34.77	Pass
			4	20.74	1.28	19.87	<=34.77	Pass
			7	20.66	1.28	19.79	<=34.77	Pass
		15	0	20.78	1.28	19.91	<=34.77	Pass
16QAM	700.5	1	0	20.39	1.28	19.52	<=34.77	Pass
			7	20.80	1.28	19.93	<=34.77	Pass
			14	21.01	1.28	20.14	<=34.77	Pass
		8	0	19.99	1.28	19.12	<=34.77	Pass
			4	20.04	1.28	19.17	<=34.77	Pass
			7	20.17	1.28	19.30	<=34.77	Pass
		15	0	19.81	1.28	18.94	<=34.77	Pass
	707.5	1	0	21.11	1.28	20.24	<=34.77	Pass
			7	21.59	1.28	20.72	<=34.77	Pass
			14	20.85	1.28	19.98	<=34.77	Pass
		8	0	19.63	1.28	18.76	<=34.77	Pass
			4	19.70	1.28	18.83	<=34.77	Pass
			7	19.64	1.28	18.77	<=34.77	Pass
		15	0	19.64	1.28	18.77	<=34.77	Pass
	714.5	1	0	21.03	1.28	20.16	<=34.77	Pass
			7	20.95	1.28	20.08	<=34.77	Pass
			14	21.49	1.28	20.62	<=34.77	Pass
		8	0	20.03	1.28	19.16	<=34.77	Pass
			4	20.00	1.28	19.13	<=34.77	Pass
			7	19.92	1.28	19.05	<=34.77	Pass
		15	0	19.84	1.28	18.97	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.3 B12_5MHz_ERP

1.3.1 Test Result

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	21.40	1.28	20.53	<=34.77	Pass
			13	21.60	1.28	20.73	<=34.77	Pass

		12	24	21.34	1.28	20.47	<=34.77	Pass	
			0	20.57	1.28	19.70	<=34.77	Pass	
			6	20.54	1.28	19.67	<=34.77	Pass	
			13	20.46	1.28	19.59	<=34.77	Pass	
		25	0	20.56	1.28	19.69	<=34.77	Pass	
	707.5	1	0	21.26	1.28	20.39	<=34.77	Pass	
			13	21.44	1.28	20.57	<=34.77	Pass	
			24	21.32	1.28	20.45	<=34.77	Pass	
		12	0	20.44	1.28	19.57	<=34.77	Pass	
			6	20.51	1.28	19.64	<=34.77	Pass	
			13	20.52	1.28	19.65	<=34.77	Pass	
		25	0	20.51	1.28	19.64	<=34.77	Pass	
	713.5	1	0	21.29	1.28	20.42	<=34.77	Pass	
			13	21.50	1.28	20.63	<=34.77	Pass	
			24	21.57	1.28	20.70	<=34.77	Pass	
		12	0	20.46	1.28	19.59	<=34.77	Pass	
			6	20.51	1.28	19.64	<=34.77	Pass	
			13	20.52	1.28	19.65	<=34.77	Pass	
		25	0	20.51	1.28	19.64	<=34.77	Pass	
	16QAM	701.5	1	0	20.50	1.28	19.63	<=34.77	Pass
				13	21.16	1.28	20.29	<=34.77	Pass
24				20.73	1.28	19.86	<=34.77	Pass	
12			0	19.43	1.28	18.56	<=34.77	Pass	
			6	19.57	1.28	18.70	<=34.77	Pass	
			13	19.51	1.28	18.64	<=34.77	Pass	
25			0	19.53	1.28	18.66	<=34.77	Pass	
707.5		1	0	19.77	1.28	18.90	<=34.77	Pass	
			13	20.05	1.28	19.18	<=34.77	Pass	
			24	19.99	1.28	19.12	<=34.77	Pass	
		12	0	19.31	1.28	18.44	<=34.77	Pass	
			6	19.53	1.28	18.66	<=34.77	Pass	
			13	19.44	1.28	18.57	<=34.77	Pass	
		25	0	19.66	1.28	18.79	<=34.77	Pass	
713.5		1	0	20.20	1.28	19.33	<=34.77	Pass	
			13	20.16	1.28	19.29	<=34.77	Pass	
			24	20.40	1.28	19.53	<=34.77	Pass	
		12	0	19.61	1.28	18.74	<=34.77	Pass	
			6	19.62	1.28	18.75	<=34.77	Pass	
			13	19.63	1.28	18.76	<=34.77	Pass	
		25	0	19.65	1.28	18.78	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.4 B12_10MHz_ERP

1.4.1 Test Result

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	21.43	1.28	20.56	<=34.77	Pass
			25	21.37	1.28	20.50	<=34.77	Pass
			49	21.45	1.28	20.58	<=34.77	Pass
		25	0	20.52	1.28	19.65	<=34.77	Pass
			13	20.37	1.28	19.50	<=34.77	Pass
			25	20.37	1.28	19.50	<=34.77	Pass
	707.5	50	0	20.54	1.28	19.67	<=34.77	Pass
		1	0	21.49	1.28	20.62	<=34.77	Pass
			25	21.50	1.28	20.63	<=34.77	Pass
			49	21.70	1.28	20.83	<=34.77	Pass
		25	0	20.30	1.28	19.43	<=34.77	Pass
			13	20.51	1.28	19.64	<=34.77	Pass

16QAM			25	20.59	1.28	19.72	<=34.77	Pass	
		50	0	20.42	1.28	19.55	<=34.77	Pass	
	711	1	0	21.39	1.28	20.52	<=34.77	Pass	
			25	21.84	1.28	20.97	<=34.77	Pass	
			49	21.39	1.28	20.52	<=34.77	Pass	
			0	20.63	1.28	19.76	<=34.77	Pass	
		25	13	20.63	1.28	19.76	<=34.77	Pass	
			25	20.54	1.28	19.67	<=34.77	Pass	
			50	0	20.62	1.28	19.75	<=34.77	Pass
		704	1	0	20.26	1.28	19.39	<=34.77	Pass
	25			20.12	1.28	19.25	<=34.77	Pass	
	49			20.70	1.28	19.83	<=34.77	Pass	
	0			19.57	1.28	18.70	<=34.77	Pass	
	13			19.53	1.28	18.66	<=34.77	Pass	
	25			19.65	1.28	18.78	<=34.77	Pass	
	50		0	19.56	1.28	18.69	<=34.77	Pass	
	707.5		1	0	20.94	1.28	20.07	<=34.77	Pass
				25	20.90	1.28	20.03	<=34.77	Pass
				49	21.36	1.28	20.49	<=34.77	Pass
			25	0	19.33	1.28	18.46	<=34.77	Pass
				13	19.55	1.28	18.68	<=34.77	Pass
				25	19.76	1.28	18.89	<=34.77	Pass
			50	0	19.48	1.28	18.61	<=34.77	Pass
			711	1	0	20.64	1.28	19.77	<=34.77
	25				21.38	1.28	20.51	<=34.77	Pass
	49				21.30	1.28	20.43	<=34.77	Pass
	25			0	19.71	1.28	18.84	<=34.77	Pass
		13		19.66	1.28	18.79	<=34.77	Pass	
		25		19.70	1.28	18.83	<=34.77	Pass	
	50	0		19.52	1.28	18.65	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

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	-0.801	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
					4.43	0.043	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-0.415	-0.0006	-2.5 to 2.5	Pass
					3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
					4.43	-1.345	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.658	-0.0009	-2.5 to 2.5	Pass

	715.3	6	0	10	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				30	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-1.173	-0.0017	-2.5 to 2.5	Pass
				20	3.27	-0.730	-0.0010	-2.5 to 2.5	Pass
					3.85	0.000	0.0000	-2.5 to 2.5	Pass
					4.43	-1.473	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-0.958	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
				0	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-0.544	-0.0008	-2.5 to 2.5	Pass
					3.85	-0.458	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.386	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				50	3.85	0.229	0.0003	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-0.830	-0.0012	-2.5 to 2.5	Pass
					3.85	0.029	0.0000	-2.5 to 2.5	Pass
					4.43	-0.100	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
				0	3.85	0.644	0.0009	-2.5 to 2.5	Pass
				10	3.85	0.458	0.0006	-2.5 to 2.5	Pass
				30	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-0.443	-0.0006	-2.5 to 2.5	Pass
					3.85	-1.431	-0.0020	-2.5 to 2.5	Pass
					4.43	-0.644	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.744	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				10	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.732	-0.0038	-2.5 to 2.5	Pass
				40	3.85	0.672	0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass

2.2 B12_3MHz

2.2.1 Test Result

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	-2.089	-0.0030	-2.5 to 2.5	Pass
					3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
					4.43	-1.774	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass

				-10	3.85	-2.089	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-2.146	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-2.575	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-1.516	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-0.443	-0.0006	-2.5 to 2.5	Pass
					3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
					4.43	-1.774	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-0.744	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-1.659	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				10	3.85	0.401	0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				20	3.27	0.157	0.0002	-2.5 to 2.5	Pass
					3.85	0.157	0.0002	-2.5 to 2.5	Pass
					4.43	0.286	0.0004	-2.5 to 2.5	Pass
	714.5	15	0	-30	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				50	3.85	0.215	0.0003	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-2.675	-0.0038	-2.5 to 2.5	Pass
					3.85	-2.060	-0.0029	-2.5 to 2.5	Pass
					4.43	-1.445	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-1.159	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-1.602	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-1.802	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-2.060	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-1.688	-0.0024	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-0.401	-0.0006	-2.5 to 2.5	Pass
					3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
					4.43	0.157	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-1.745	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-0.658	-0.0009	-2.5 to 2.5	Pass
				10	3.85	0.529	0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				40	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				50	3.85	0.000	0.0000	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.343	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.601	-0.0008	-2.5 to 2.5	Pass
					4.43	-0.987	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				10	3.85	0.215	0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-1.388	-0.0019	-2.5 to 2.5	Pass

2.3 B12_5MHz

2.3.1 Test Result

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	-0.300	-0.0004	-2.5 to 2.5	Pass
					3.85	-0.873	-0.0012	-2.5 to 2.5	Pass
					4.43	-0.272	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.173	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-0.873	-0.0012	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	0.243	0.0003	-2.5 to 2.5	Pass
					3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.114	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.730	-0.0010	-2.5 to 2.5	Pass
					3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
					4.43	-0.601	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-0.887	-0.0013	-2.5 to 2.5	Pass
					3.85	0.072	0.0001	-2.5 to 2.5	Pass
					4.43	-0.672	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
				30	3.85	1.059	0.0015	-2.5 to 2.5	Pass
				40	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-0.129	-0.0002	-2.5 to 2.5	Pass
					3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
					4.43	-0.772	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-1.831	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-2.074	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-1.588	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass

	713.5	25	0	20	3.27	-0.687	-0.0010	-2.5 to 2.5	Pass
					3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
					4.43	-0.458	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-1.245	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				0	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-1.760	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass

2.4 B12_10MHz

2.4.1 Test Result

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	-0.501	-0.0007	-2.5 to 2.5	Pass
					3.85	-1.230	-0.0017	-2.5 to 2.5	Pass
					4.43	-0.558	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-0.744	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.529	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
	707.5	50	0	20	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
					3.27	-0.215	-0.0003	-2.5 to 2.5	Pass
					3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				-30	4.43	-0.658	-0.0009	-2.5 to 2.5	Pass
					3.85	-1.230	-0.0017	-2.5 to 2.5	Pass
					3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				0	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				10	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
	711	50	0	30	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
					3.85	0.100	0.0001	-2.5 to 2.5	Pass
					3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				20	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
					3.27	-1.974	-0.0028	-2.5 to 2.5	Pass
					3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
				-30	4.43	-0.587	-0.0008	-2.5 to 2.5	Pass
					3.85	-1.488	-0.0021	-2.5 to 2.5	Pass
					3.85	-1.030	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-1.030	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-1.802	-0.0025	-2.5 to 2.5	Pass
16QAM	704	50	0	0	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
					3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
					3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
					3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
					3.85	-1.388	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
					3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
					3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				20	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
					3.27	-0.873	-0.0012	-2.5 to 2.5	Pass
					3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
				-30	4.43	-0.443	-0.0006	-2.5 to 2.5	Pass
					3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
					3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				10	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass

	707.5	50	0	40	3.85	-0.458	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				20	3.27	-0.758	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.343	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-1.230	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.658	-0.0009	-2.5 to 2.5	Pass
				0	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-1.245	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.730	-0.0010	-2.5 to 2.5	Pass
					3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
					4.43	-1.330	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-0.958	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-1.316	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass

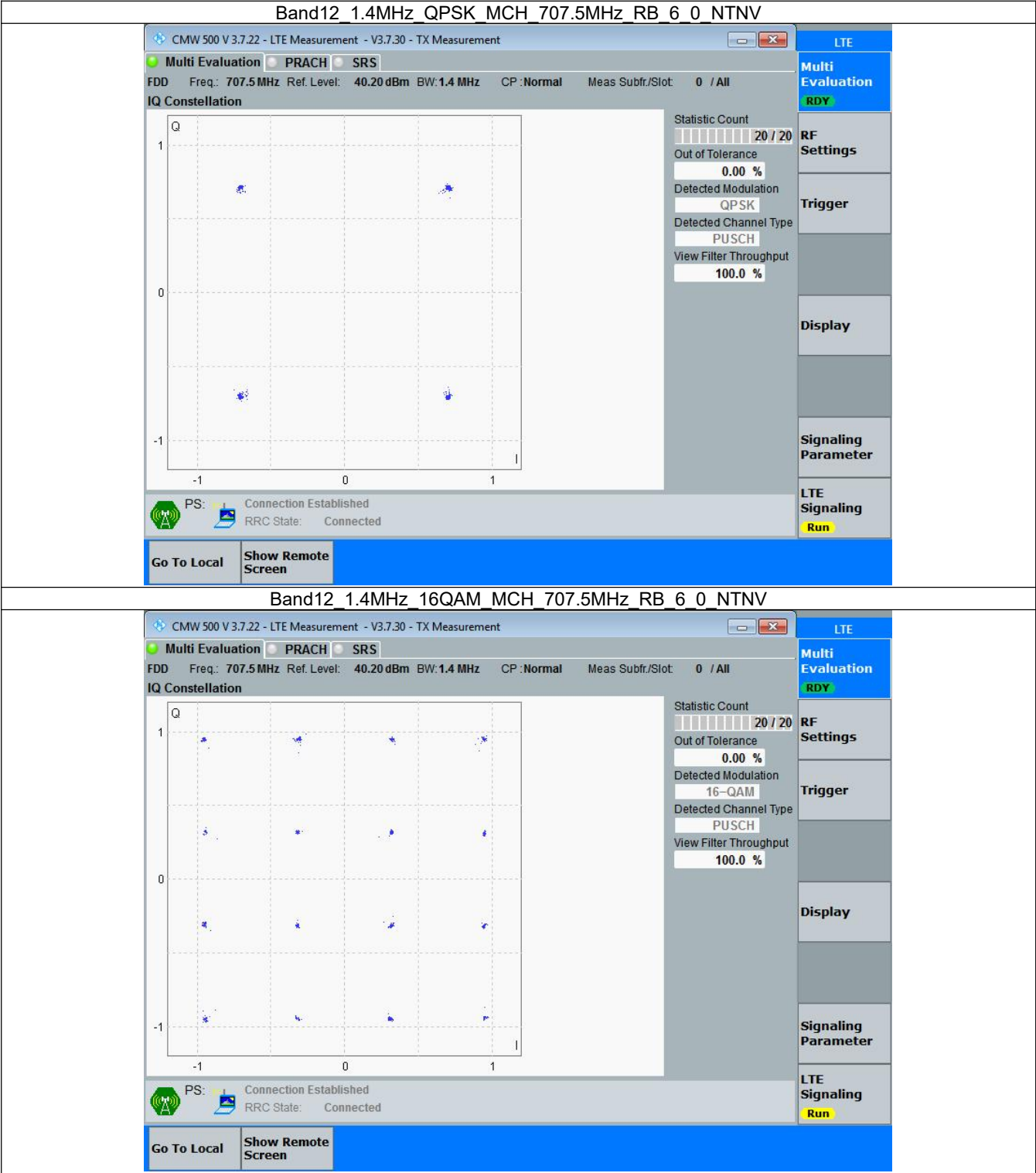
3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

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 Test Graph

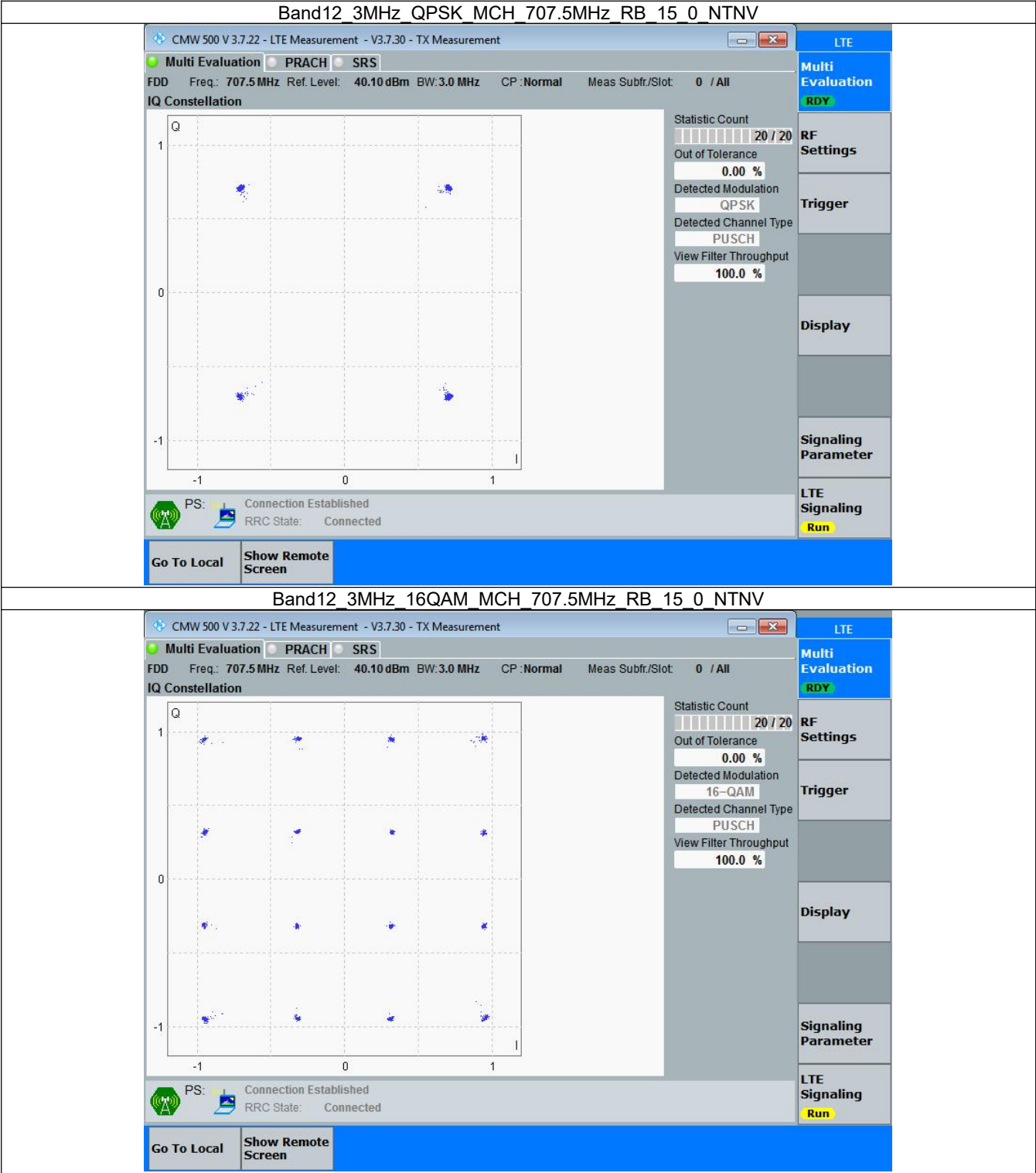


3.2 B12_3MHz

3.2.1 Test Result

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		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

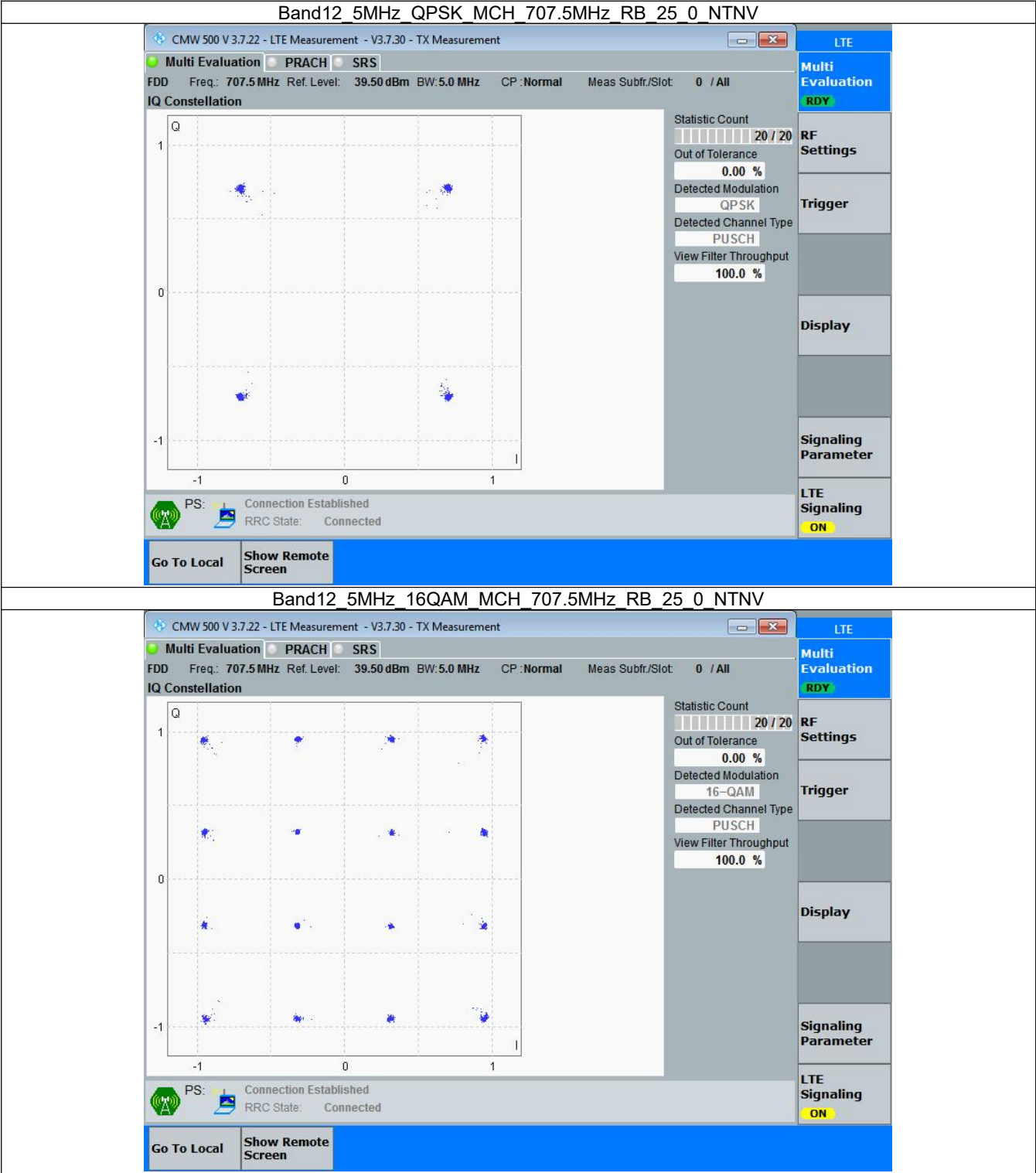


3.3 B12_5MHz

3.3.1 Test Result

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

3.3.2 Test Graph

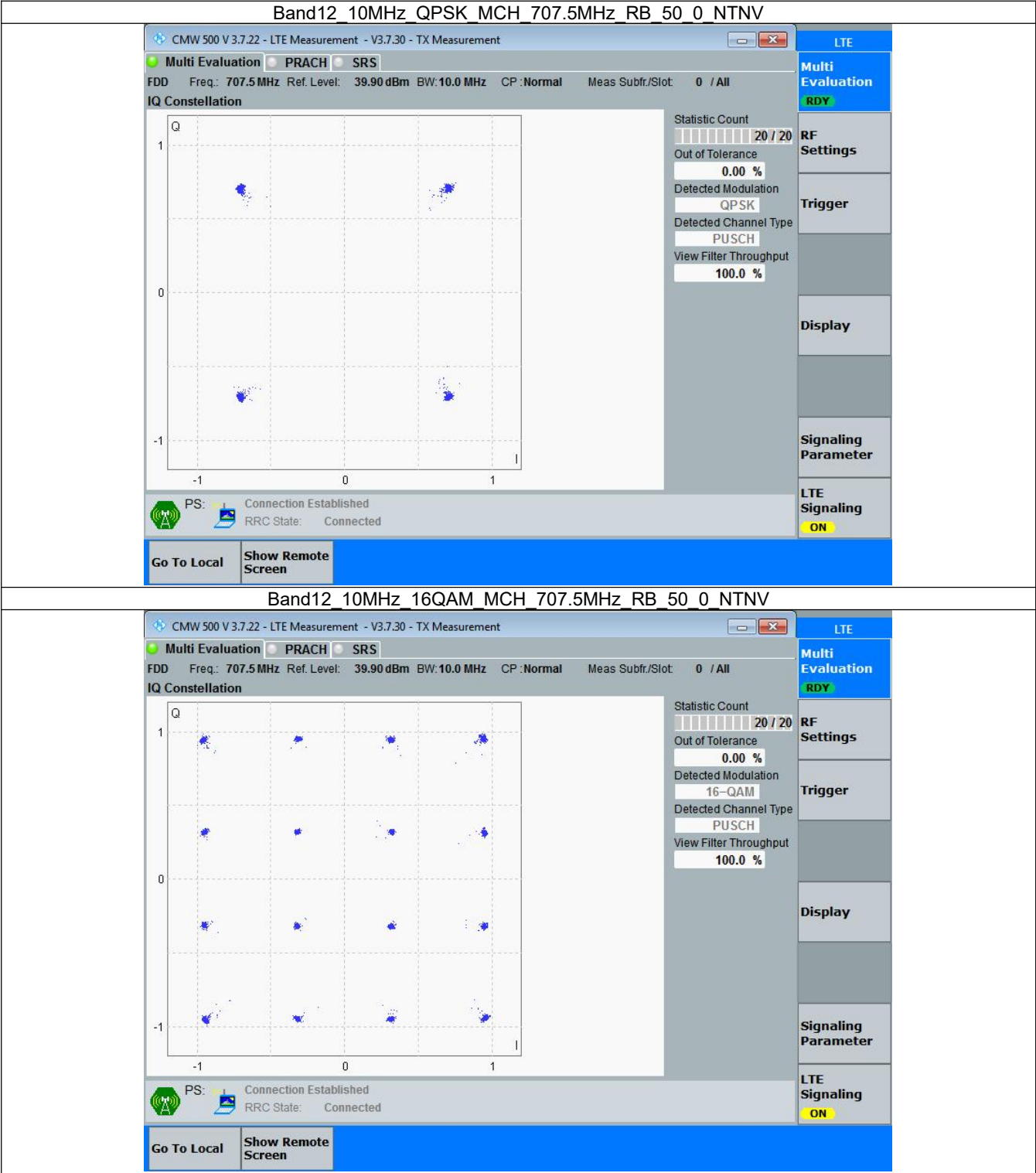


3.4 B12_10MHz

3.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTVV						
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

3.4.2 Test Graph



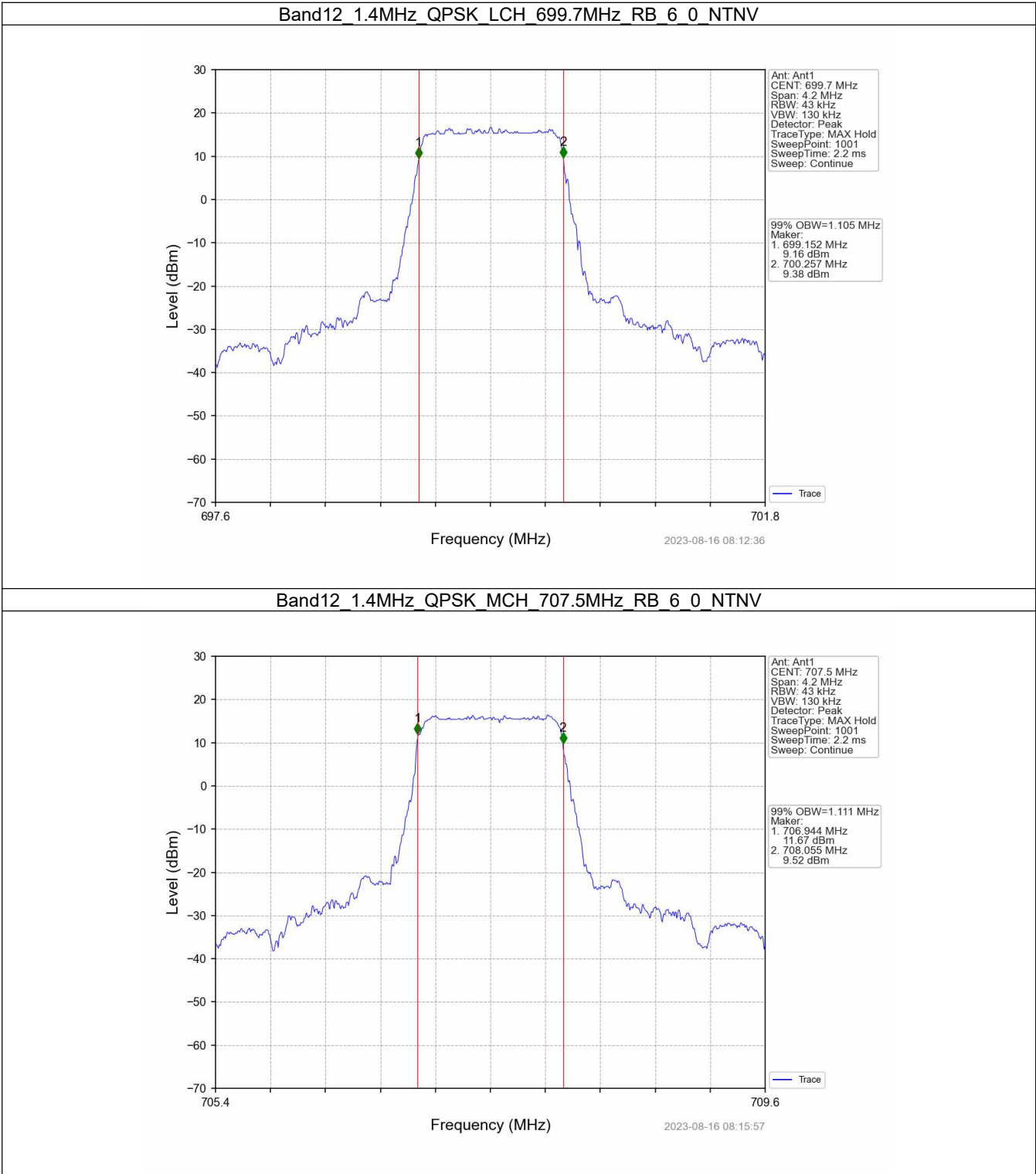
4. 99% & 26dB Bandwidth

4.1 Band12_OBW

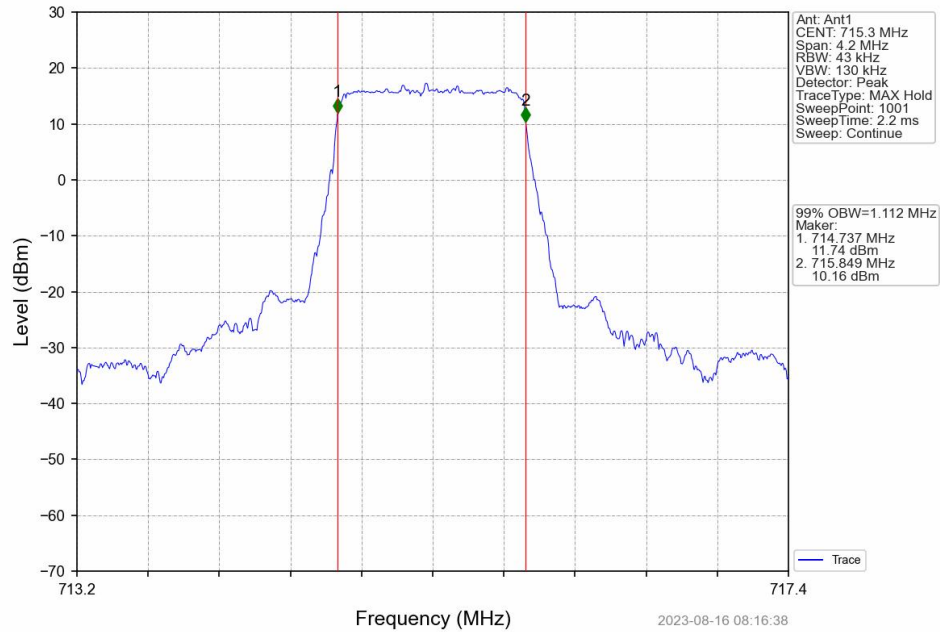
4.1.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.105	Pass
		707.5	6	0	1.111	Pass
		715.3	6	0	1.112	Pass
	16QAM	699.7	6	0	1.101	Pass
		707.5	6	0	1.109	Pass
		715.3	6	0	1.112	Pass
3	QPSK	700.5	15	0	2.743	Pass
		707.5	15	0	2.739	Pass
		714.5	15	0	2.746	Pass
	16QAM	700.5	15	0	2.726	Pass
		707.5	15	0	2.734	Pass
		714.5	15	0	2.751	Pass
5	QPSK	701.5	25	0	4.527	Pass
		707.5	25	0	4.572	Pass
		713.5	25	0	4.540	Pass
	16QAM	701.5	25	0	4.550	Pass
		707.5	25	0	4.535	Pass
		713.5	25	0	4.580	Pass
10	QPSK	704	50	0	9.032	Pass
		707.5	50	0	9.029	Pass
		711	50	0	9.027	Pass
	16QAM	704	50	0	9.052	Pass
		707.5	50	0	9.039	Pass
		711	50	0	9.049	Pass

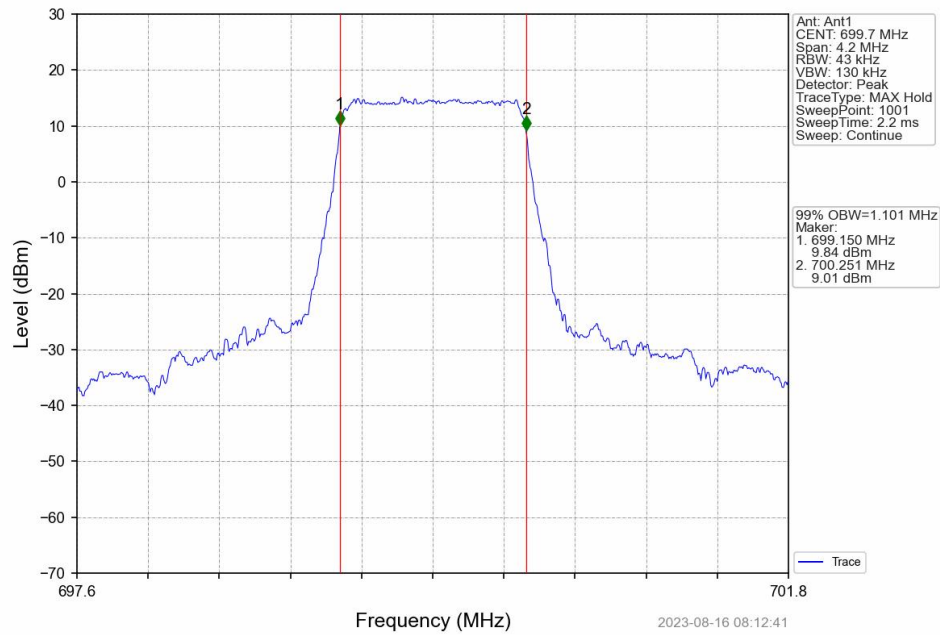
4.1.2 Test Graph



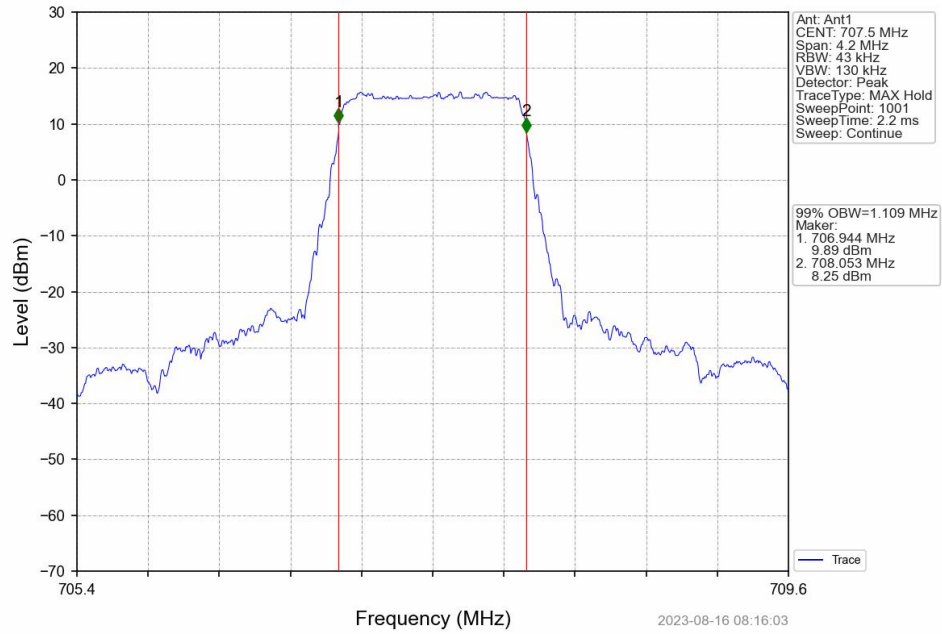
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



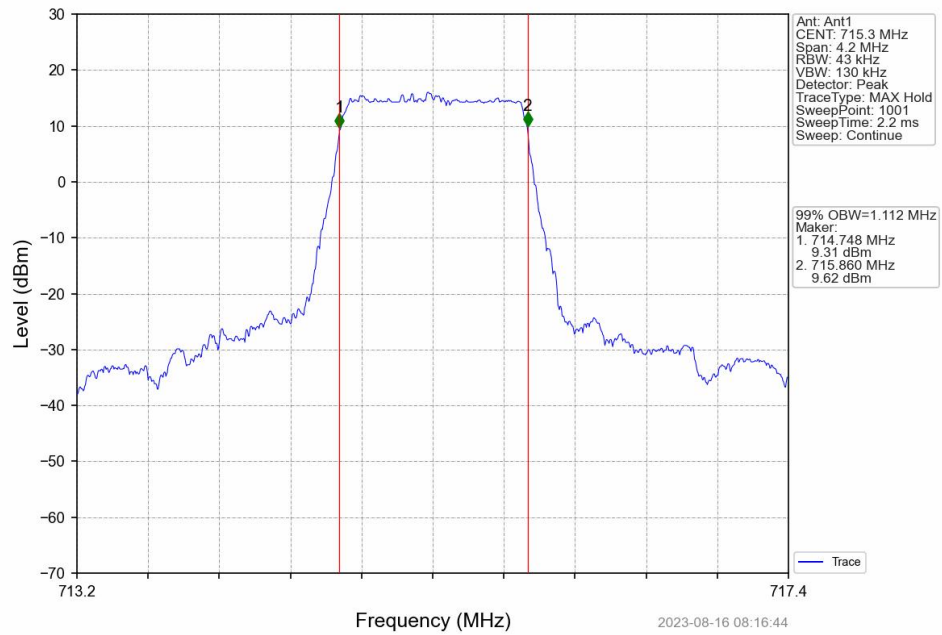
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



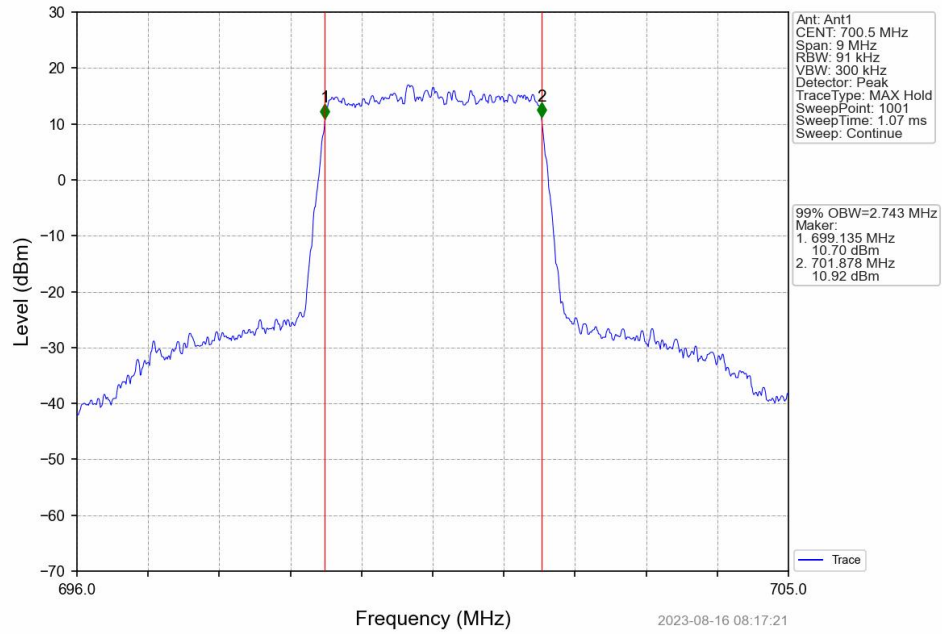
Band12 1.4MHz 16QAM MCH 707.5MHz RB_6 0 NTNV



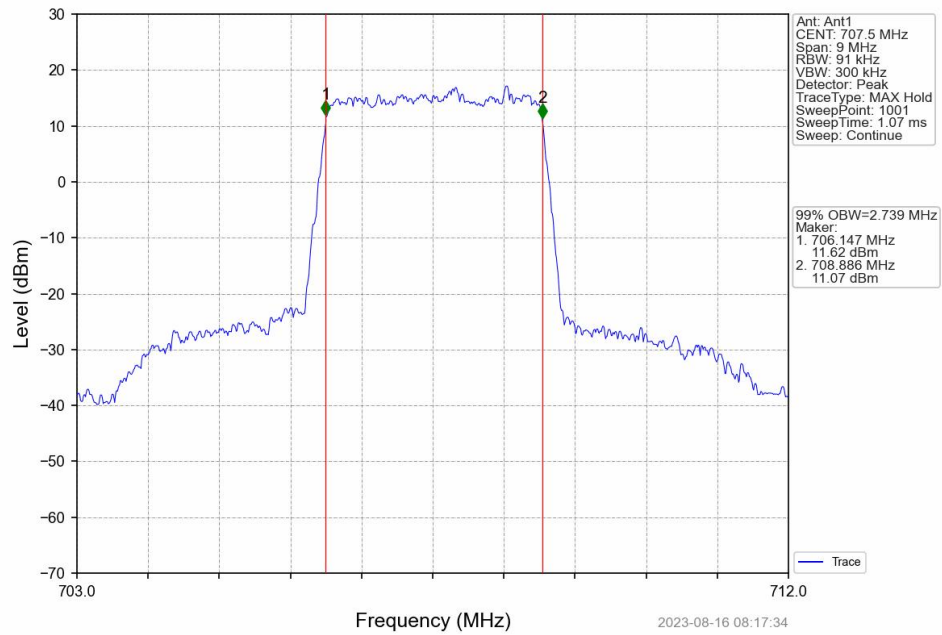
Band12 1.4MHz 16QAM HCH 715.3MHz RB_6 0 NTNV



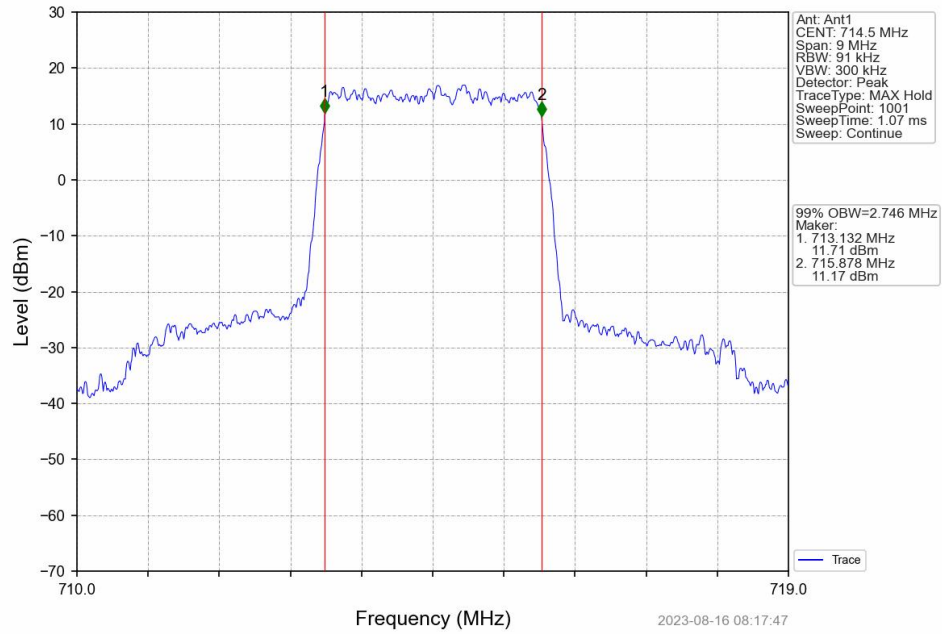
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



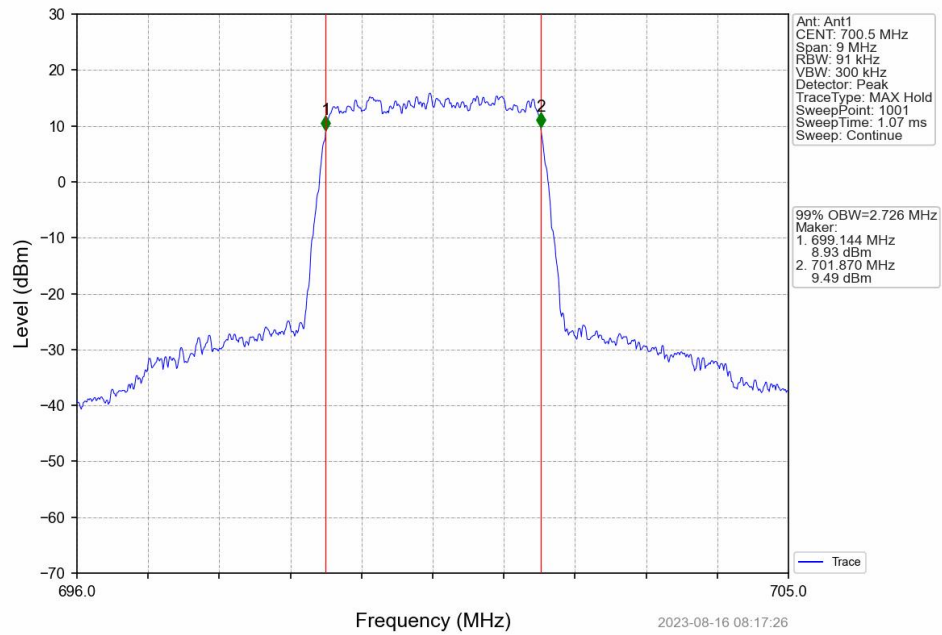
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



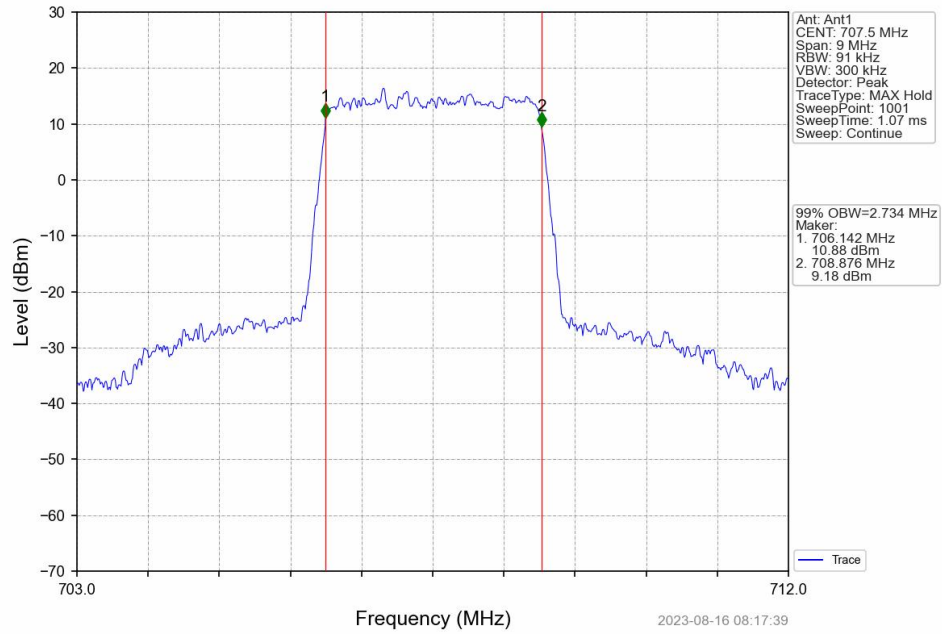
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



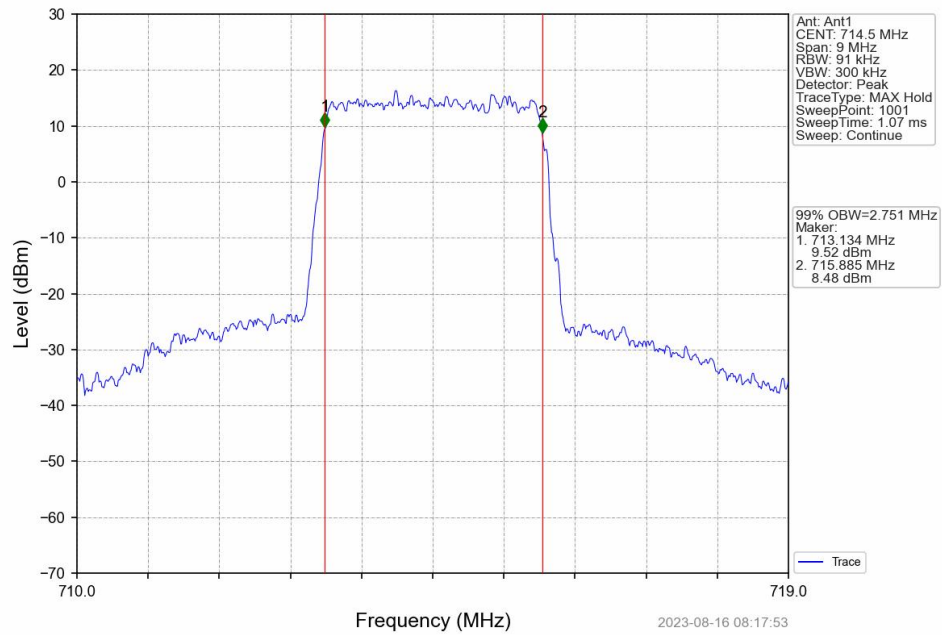
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



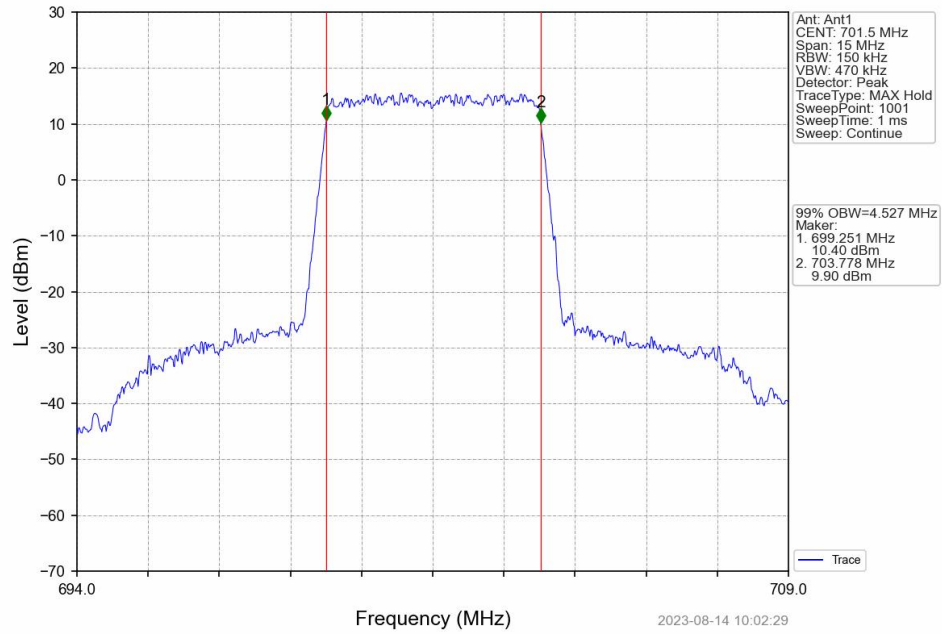
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



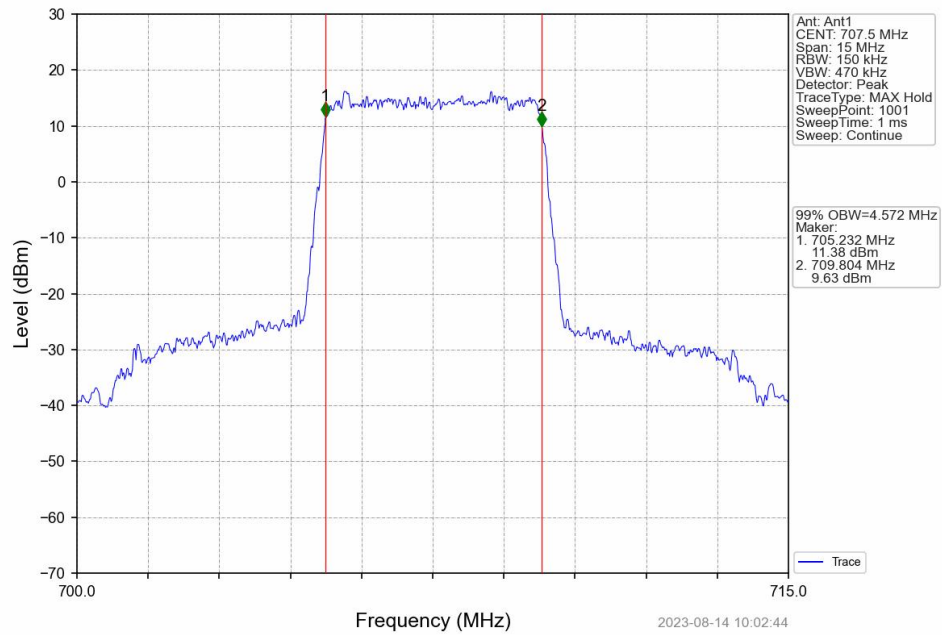
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



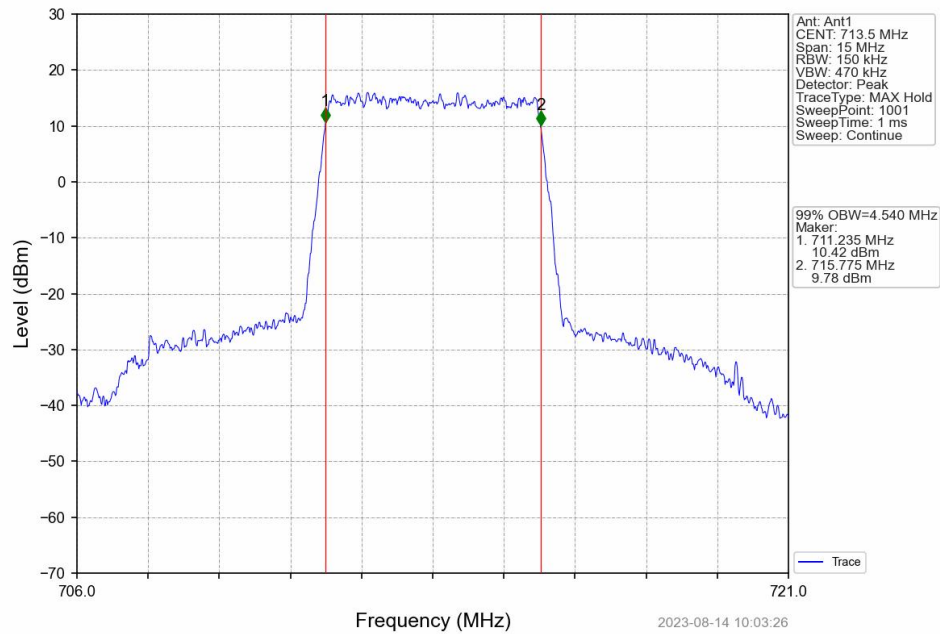
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



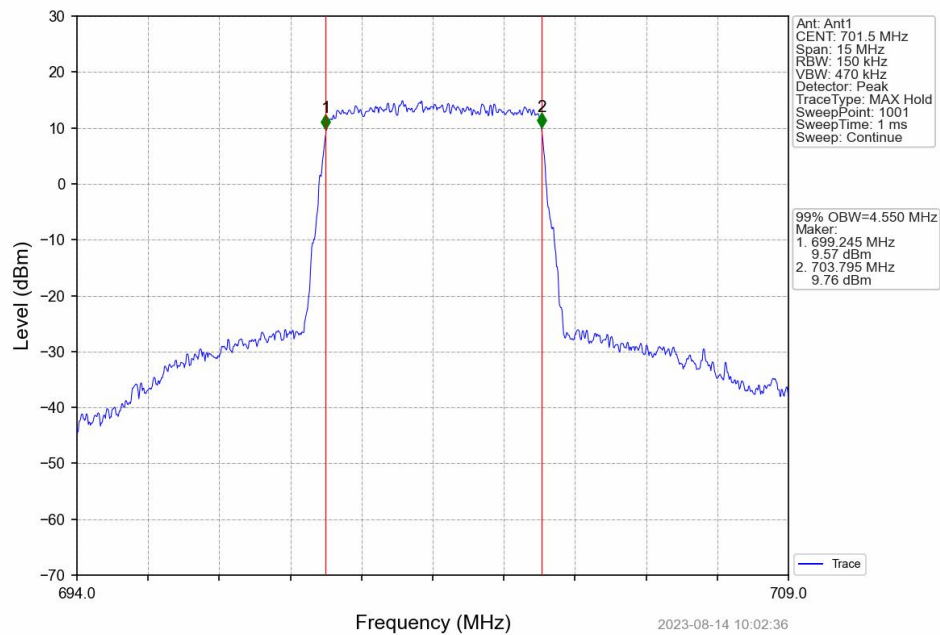
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



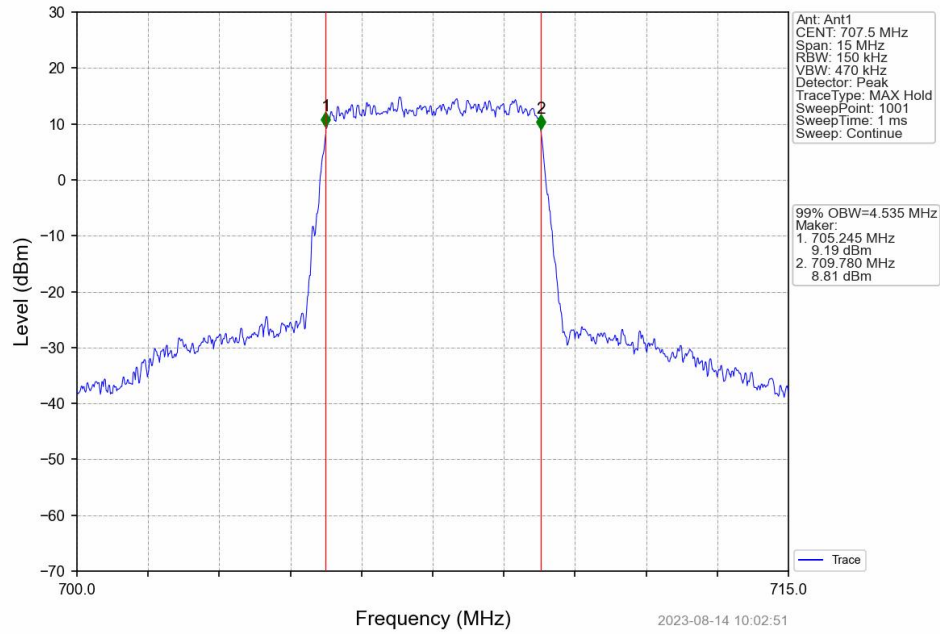
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



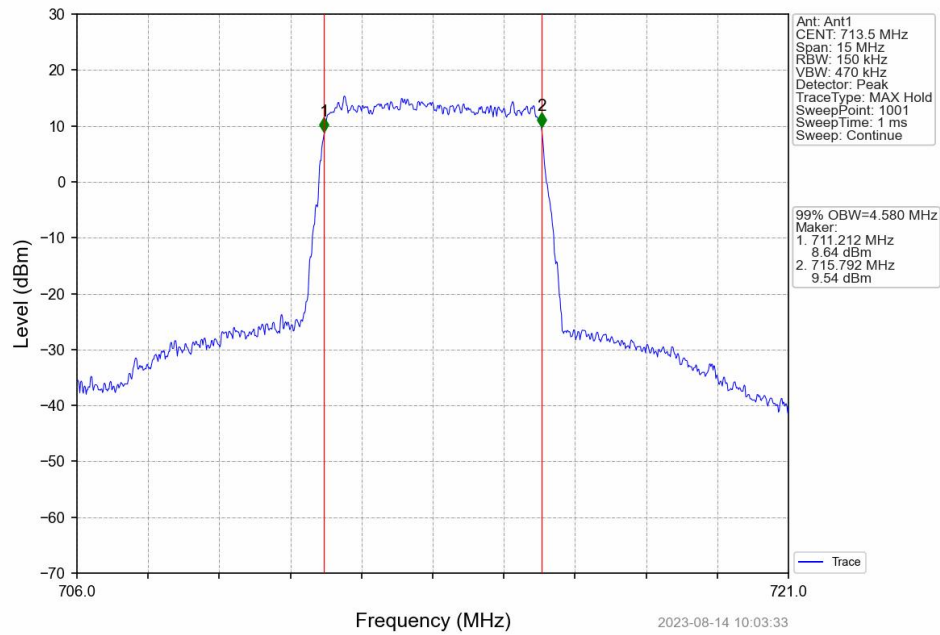
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



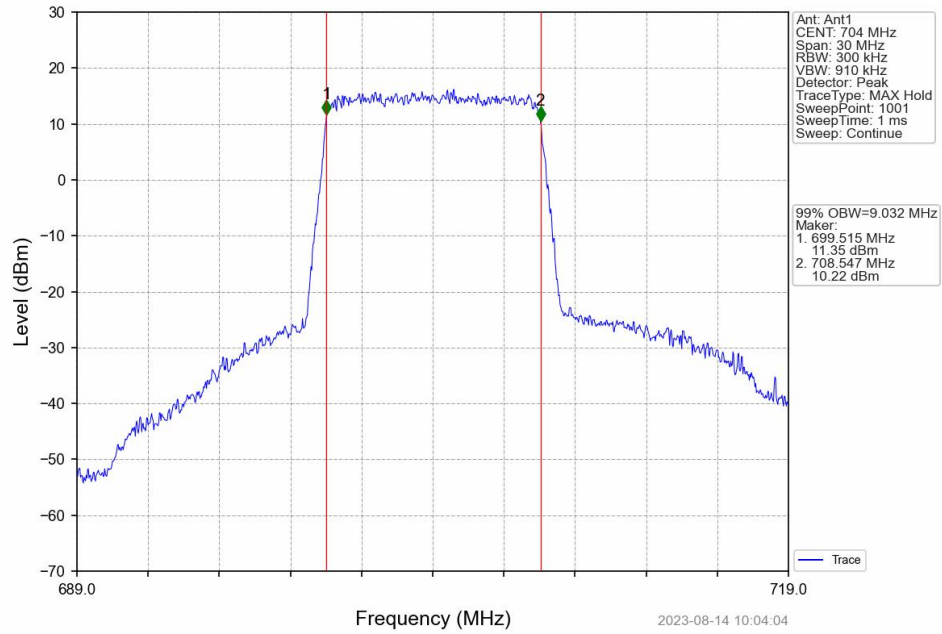
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



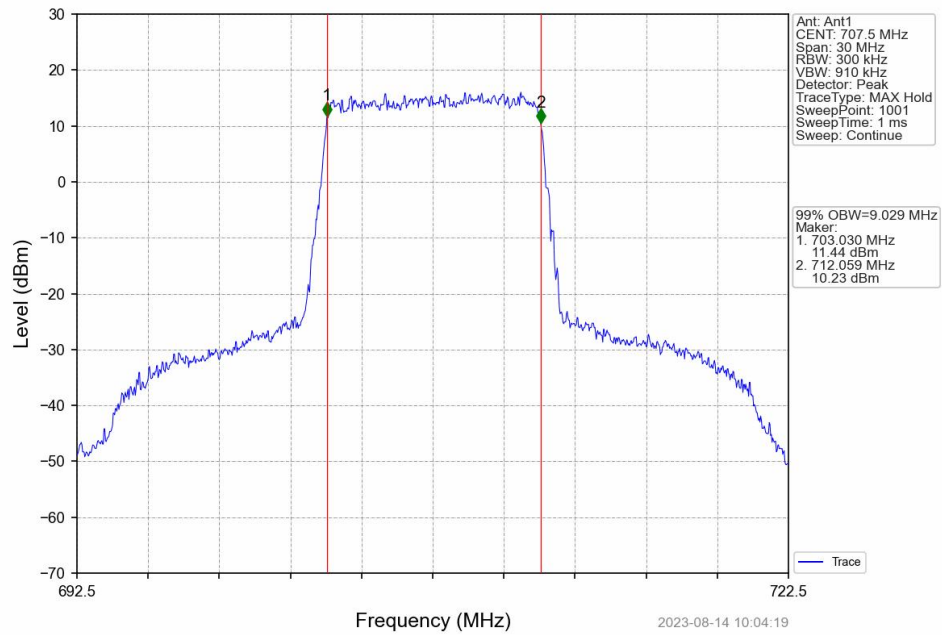
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



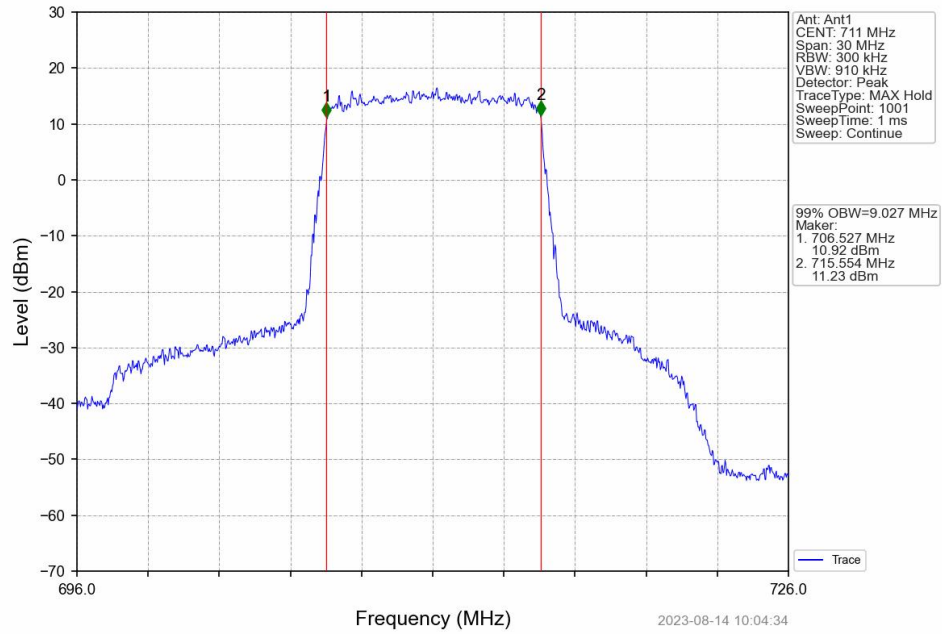
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



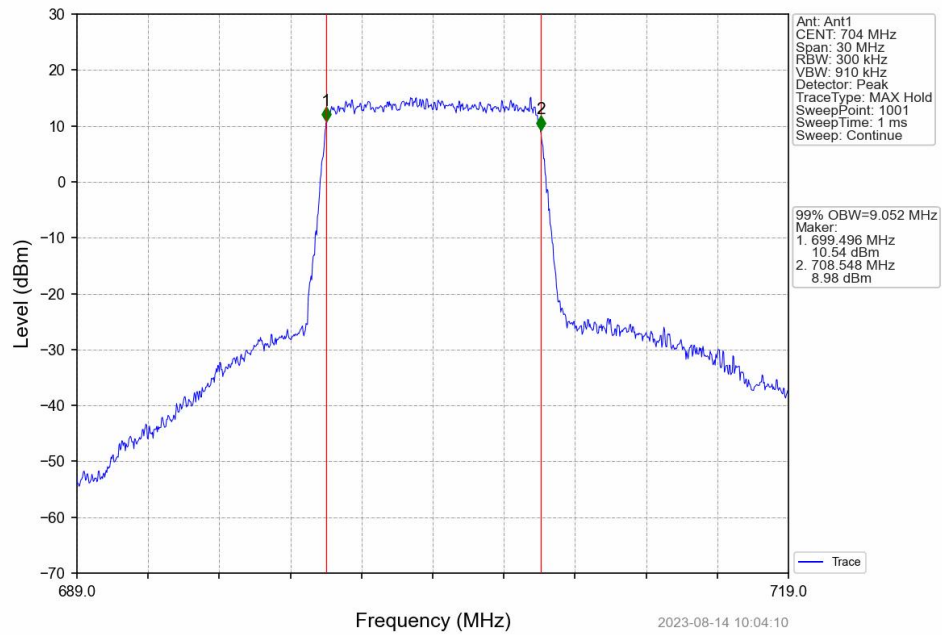
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



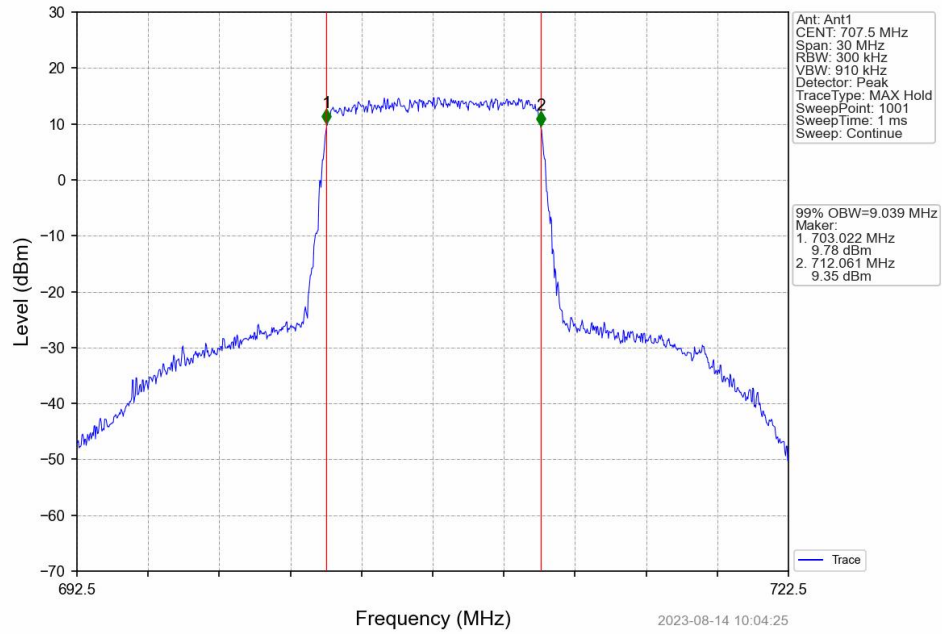
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



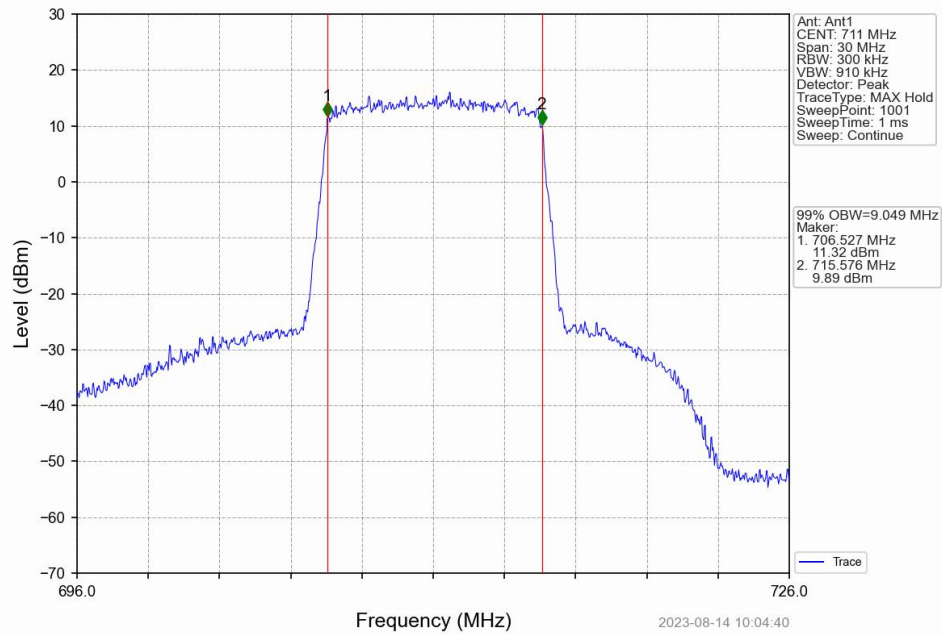
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

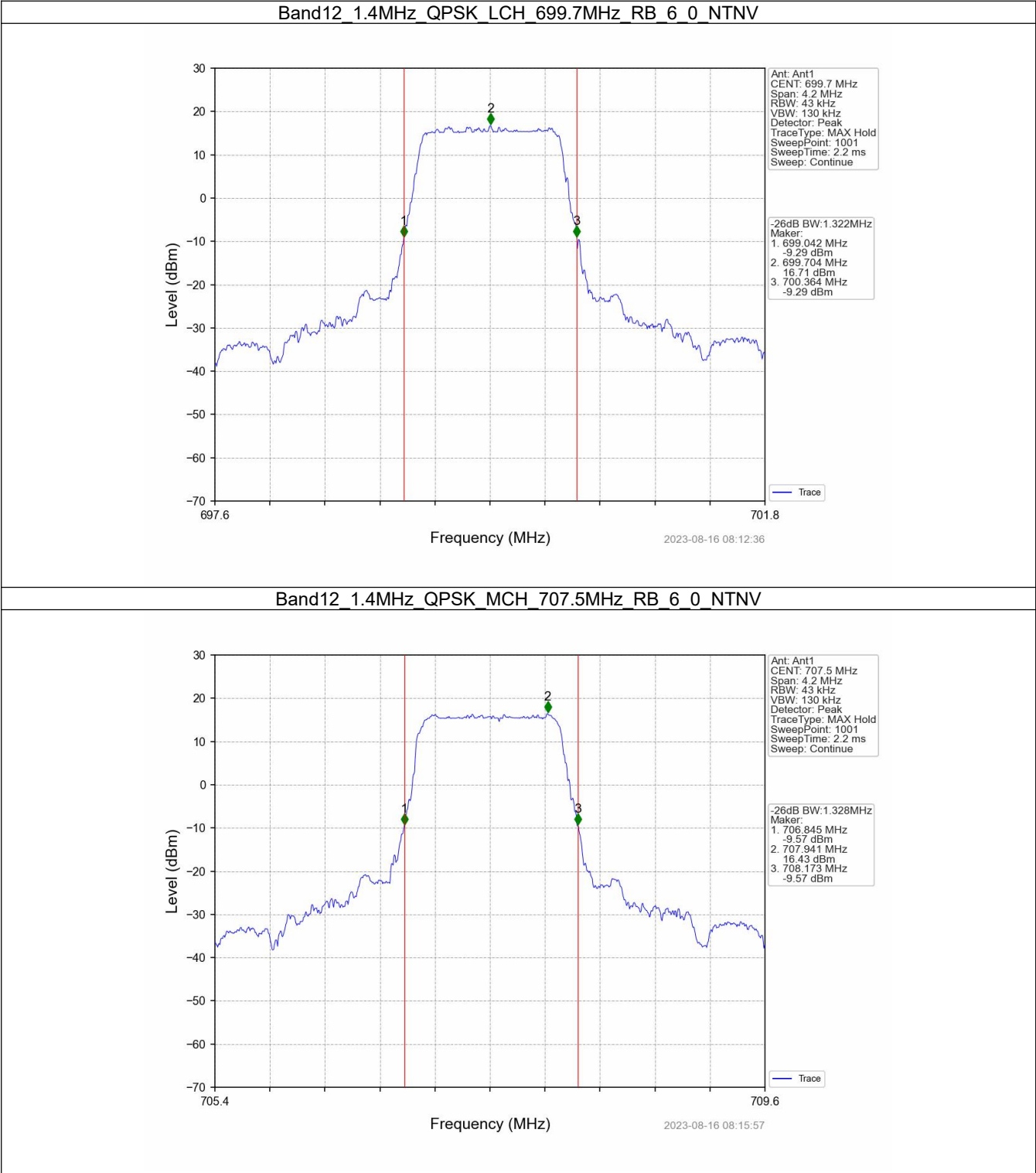


4.2 Band12_XDB

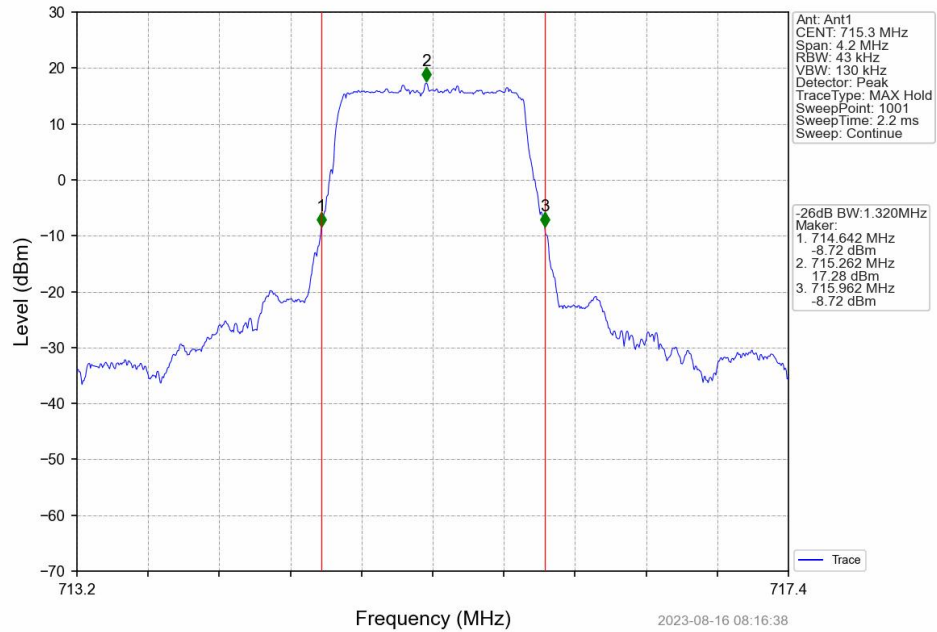
4.2.1 Test Result

Band: 12 / NTN						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.322	Pass
		707.5	6	0	1.328	Pass
		715.3	6	0	1.320	Pass
	16QAM	699.7	6	0	1.326	Pass
		707.5	6	0	1.340	Pass
		715.3	6	0	1.327	Pass
3	QPSK	700.5	15	0	3.044	Pass
		707.5	15	0	3.059	Pass
		714.5	15	0	3.049	Pass
	16QAM	700.5	15	0	3.059	Pass
		707.5	15	0	3.037	Pass
		714.5	15	0	3.035	Pass
5	QPSK	701.5	25	0	5.097	Pass
		707.5	25	0	5.052	Pass
		713.5	25	0	5.089	Pass
	16QAM	701.5	25	0	5.122	Pass
		707.5	25	0	5.089	Pass
		713.5	25	0	5.098	Pass
10	QPSK	704	50	0	10.038	Pass
		707.5	50	0	10.082	Pass
		711	50	0	10.073	Pass
	16QAM	704	50	0	10.005	Pass
		707.5	50	0	10.024	Pass
		711	50	0	9.963	Pass

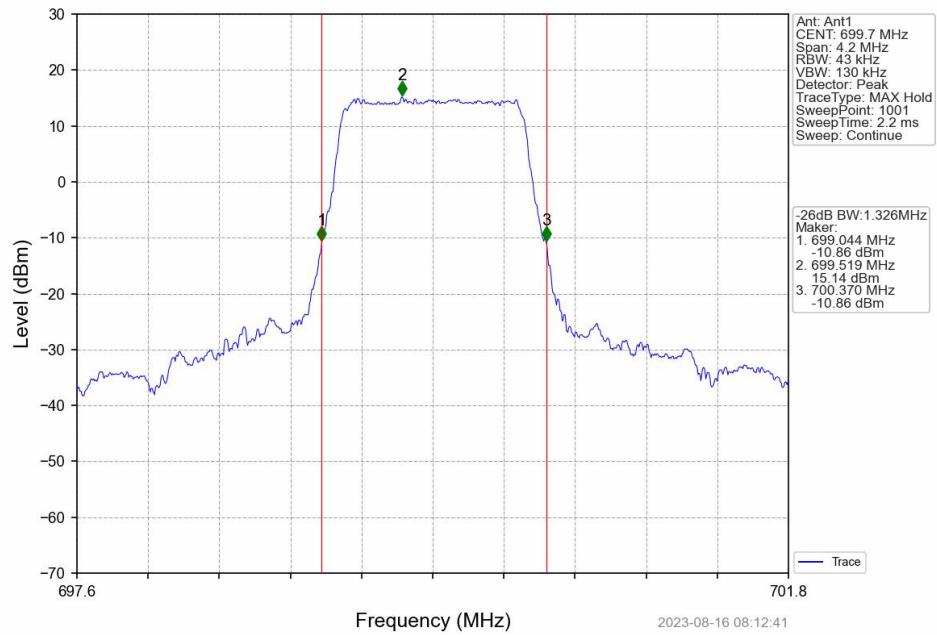
4.2.2 Test Graph



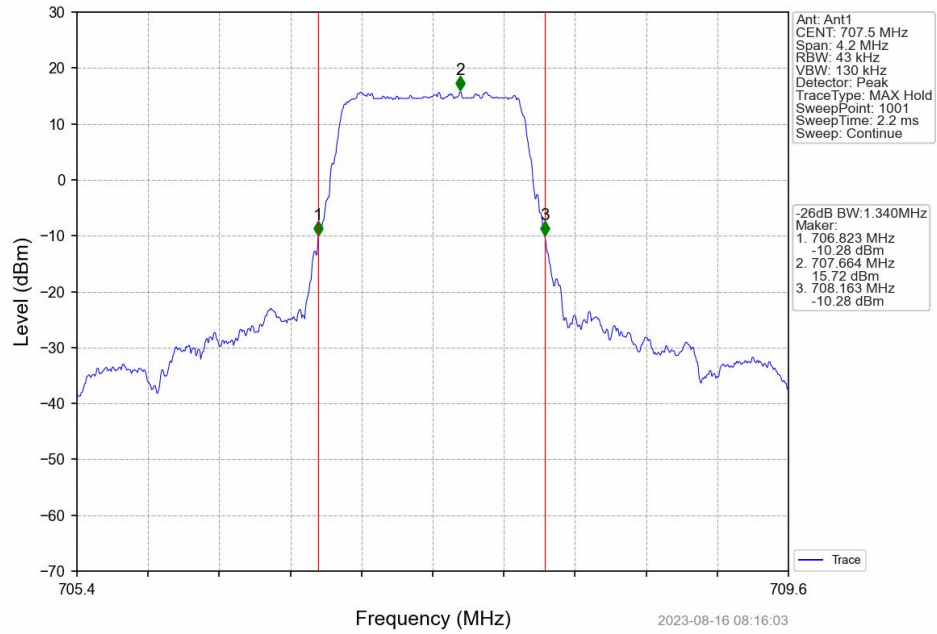
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



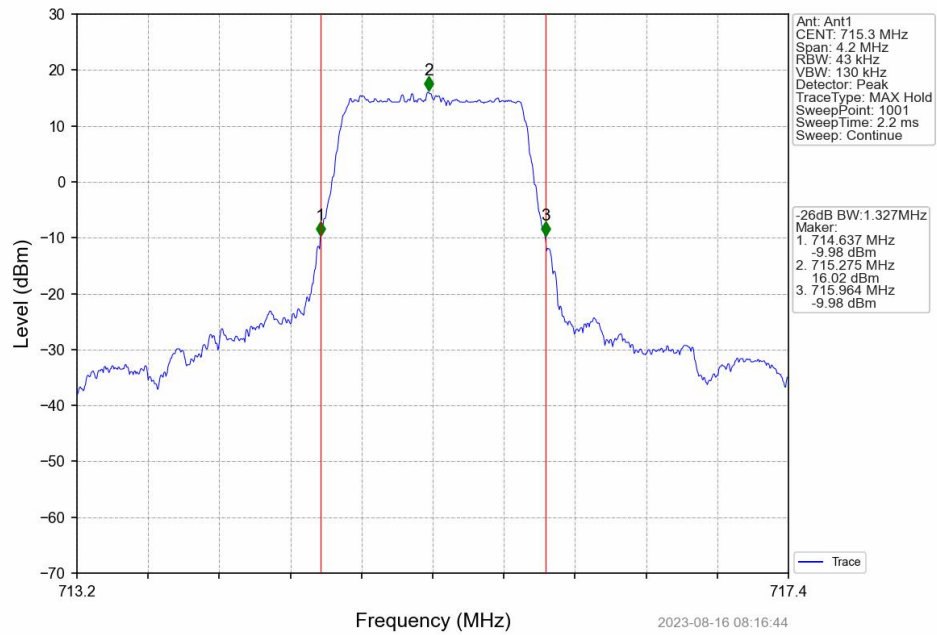
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



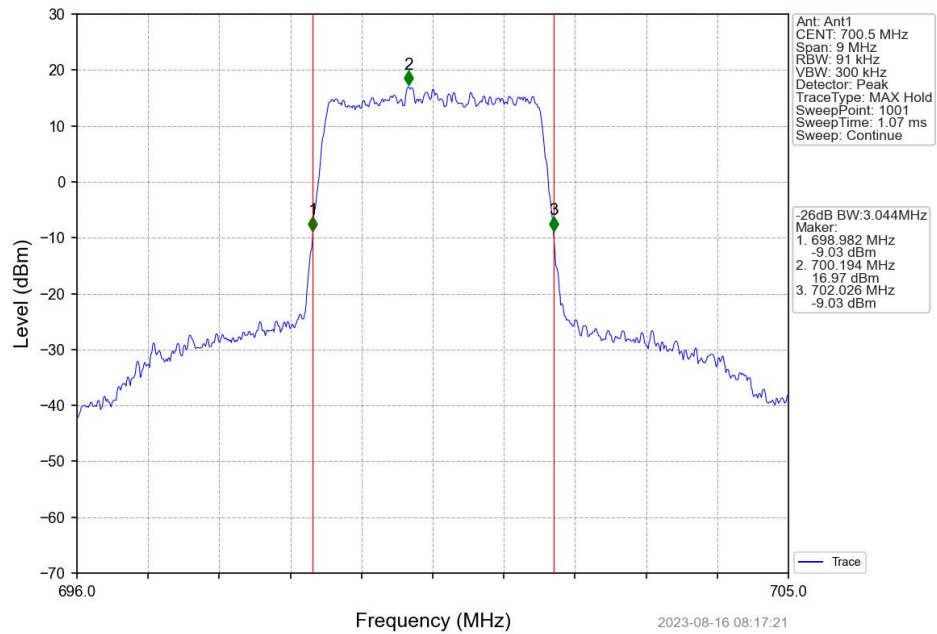
Band12 1.4MHz 16QAM MCH 707.5MHz RB_6 0 NTNV



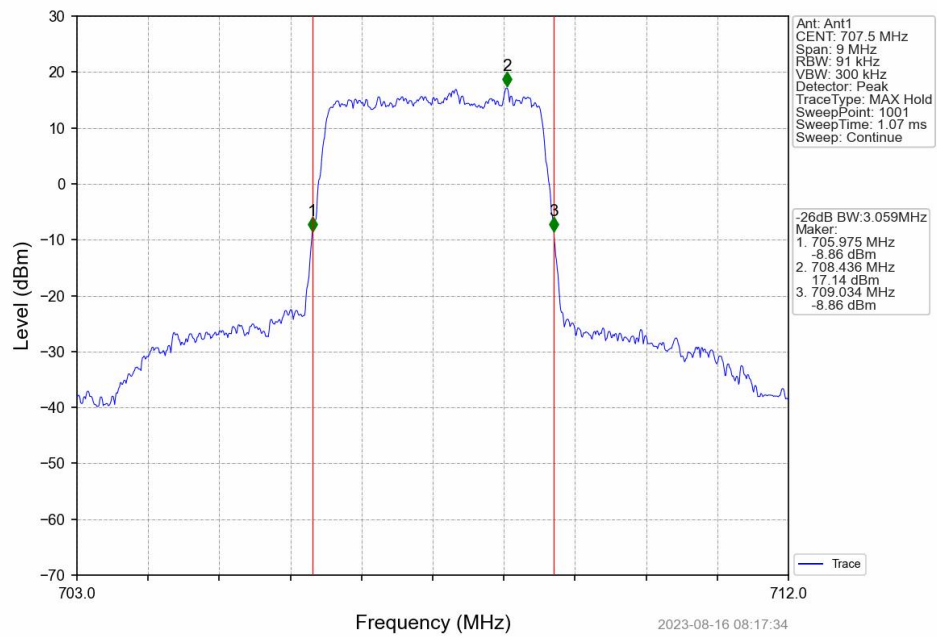
Band12 1.4MHz 16QAM HCH 715.3MHz RB_6 0 NTNV



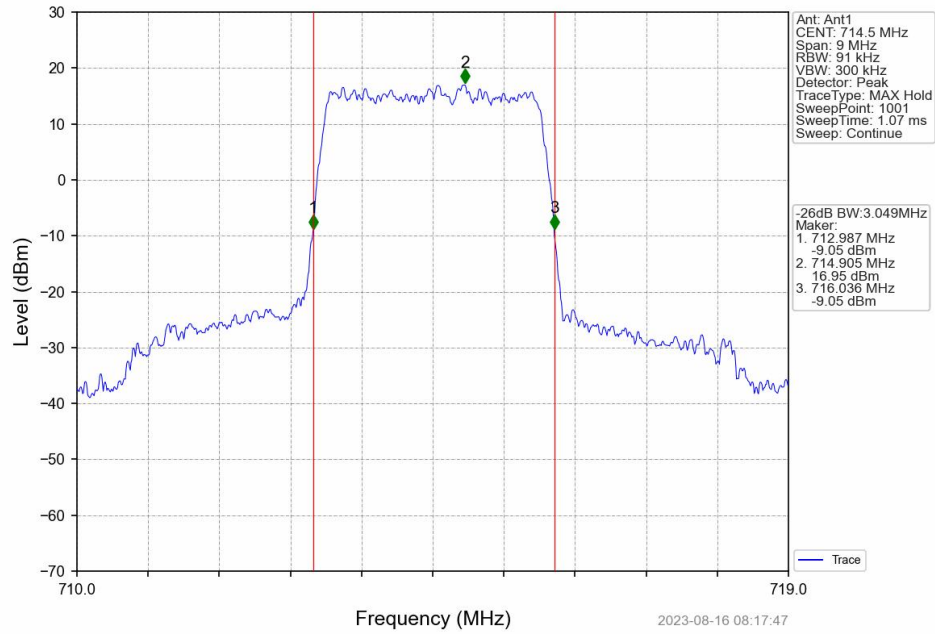
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



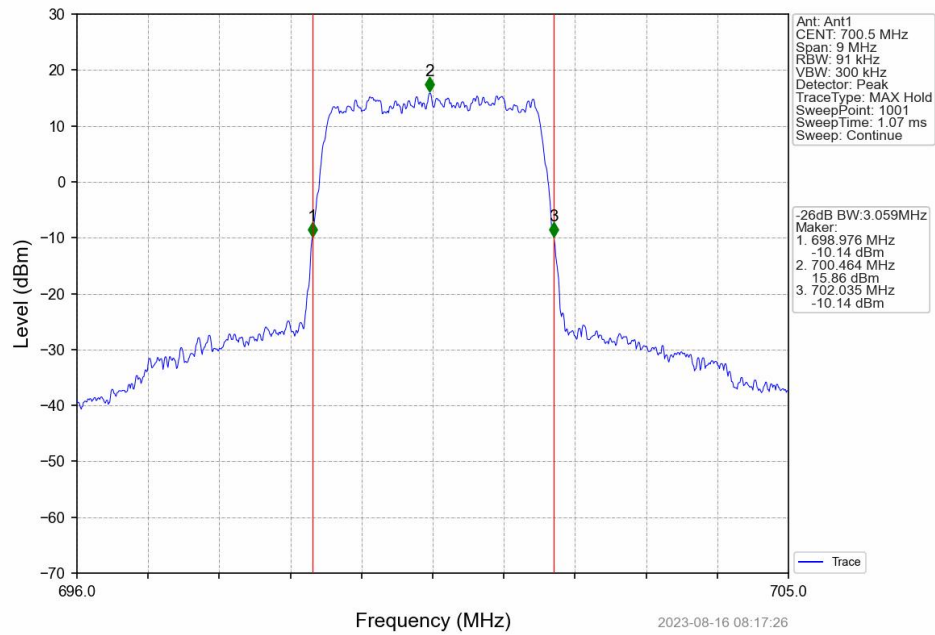
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



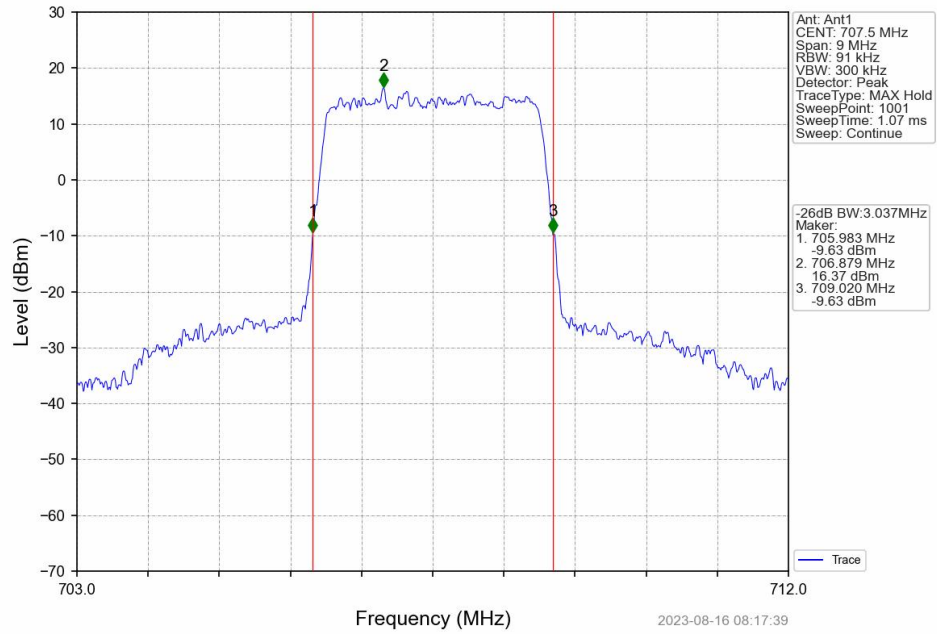
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



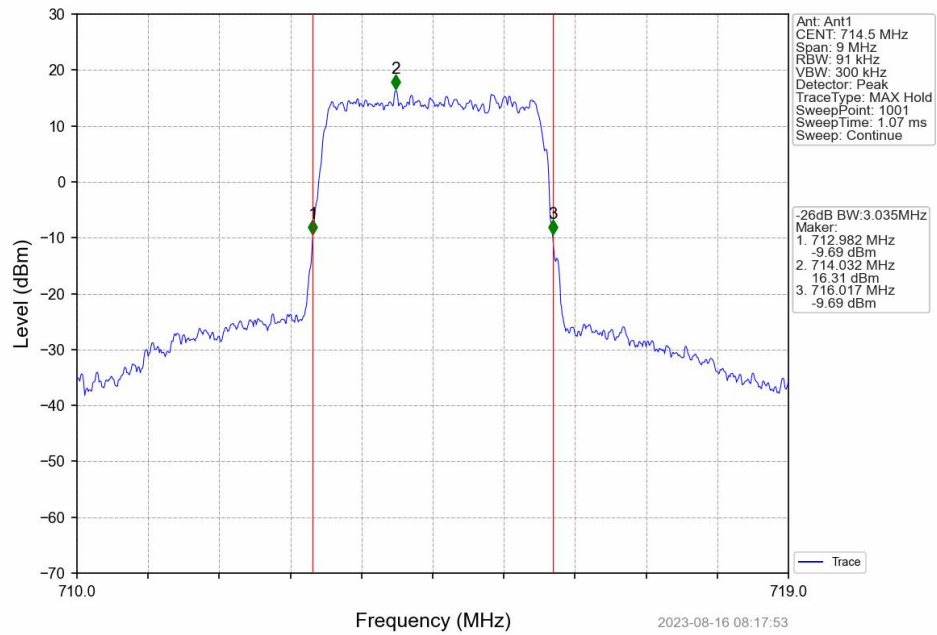
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



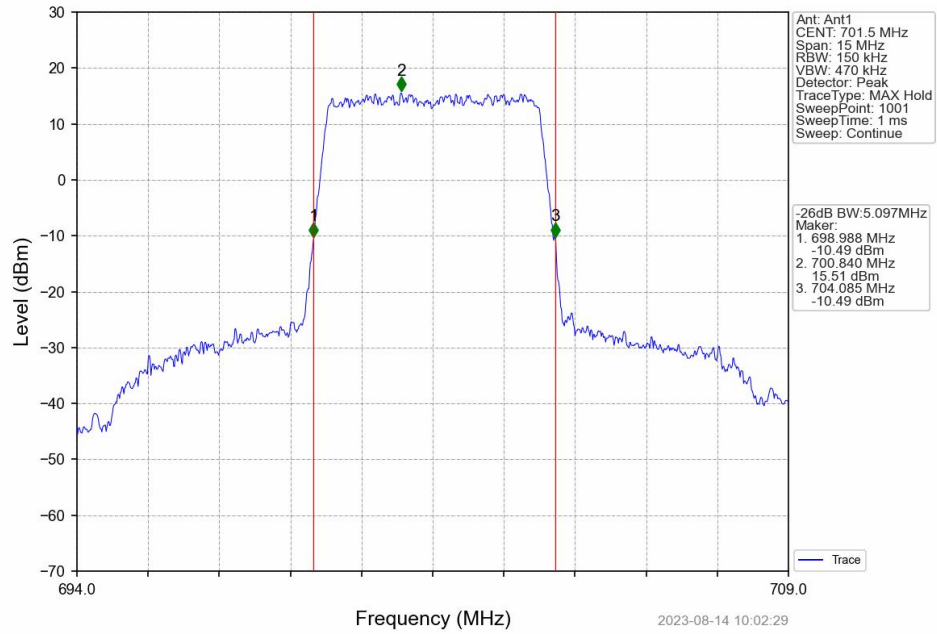
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



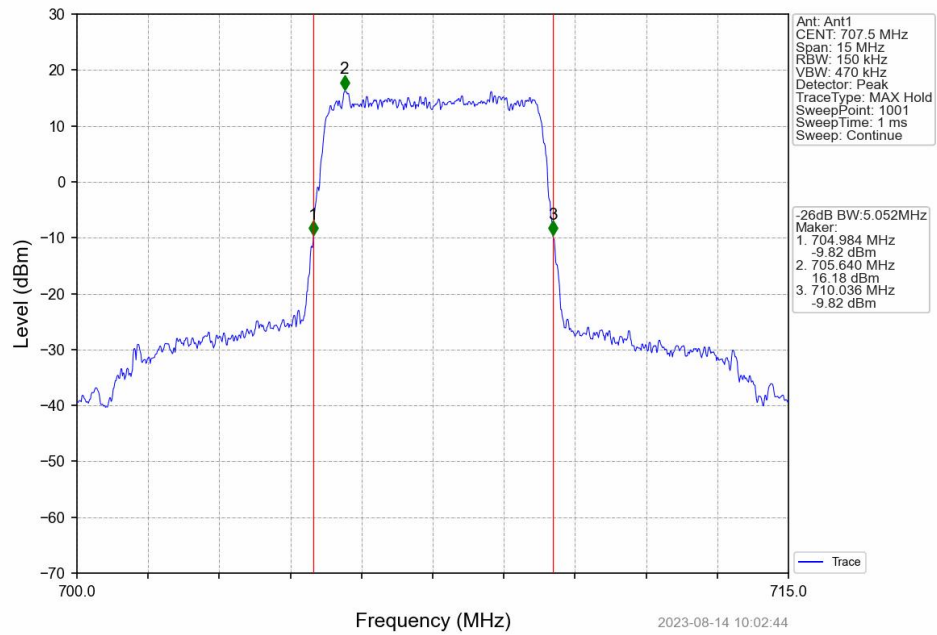
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



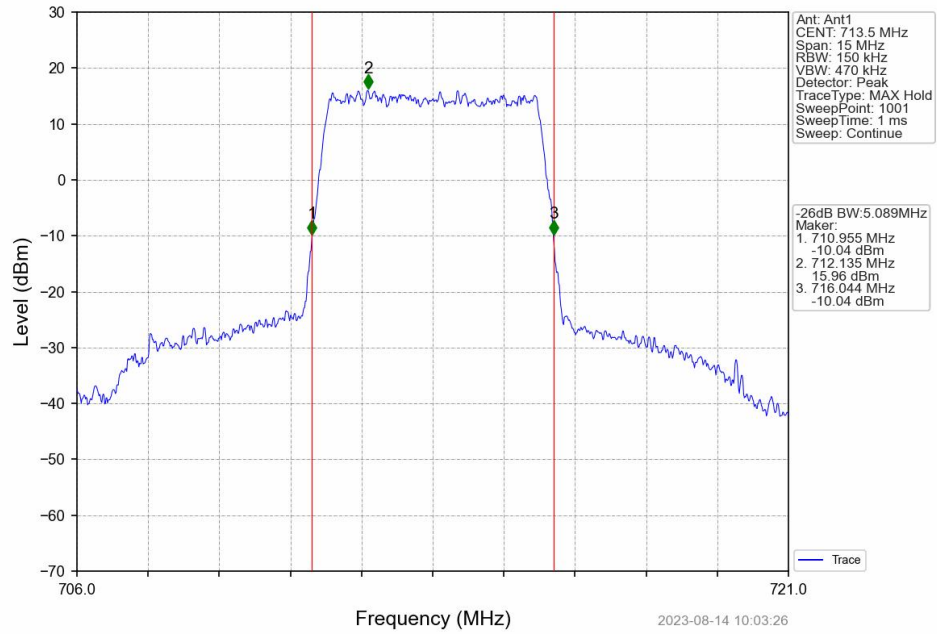
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



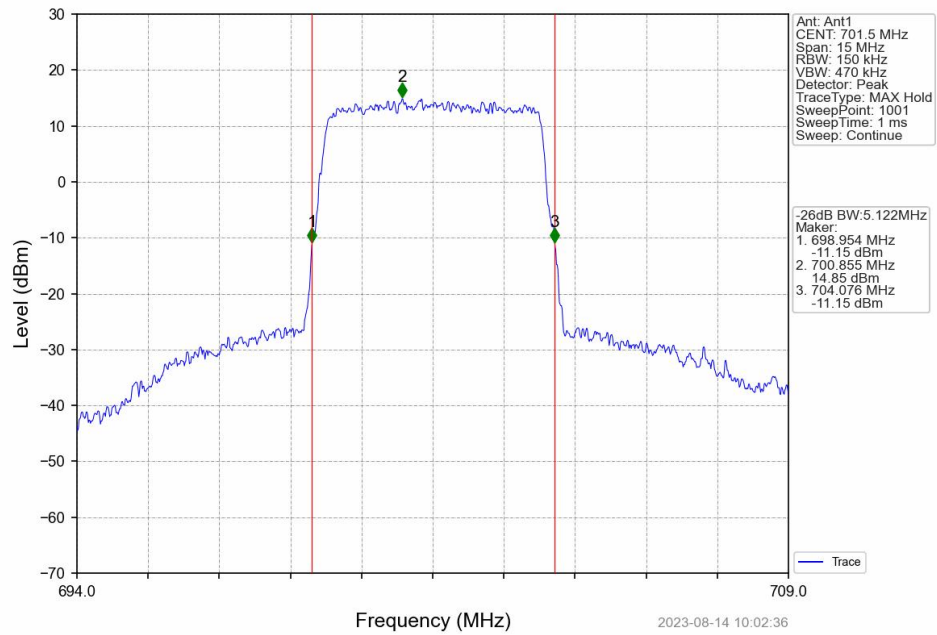
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



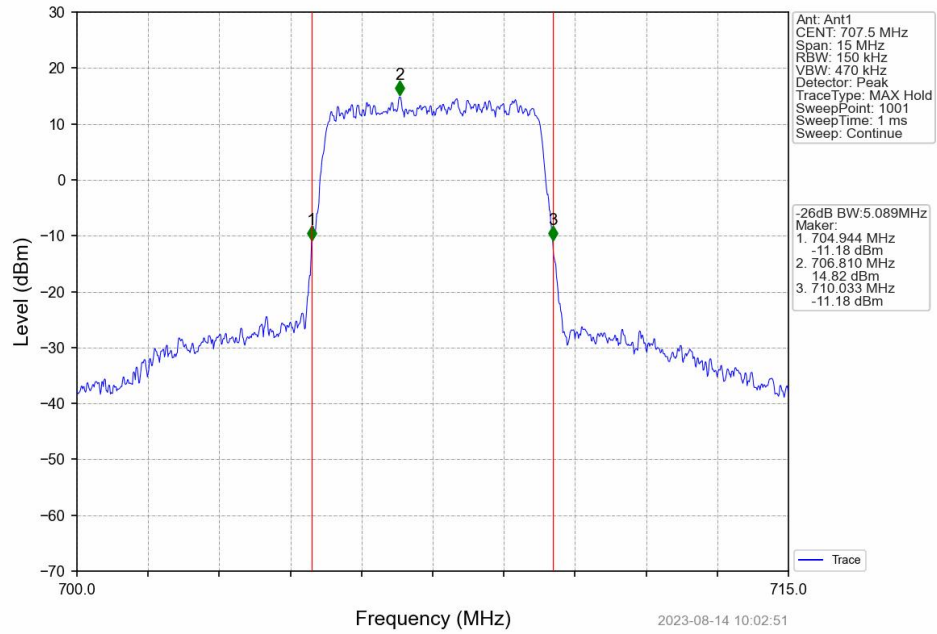
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



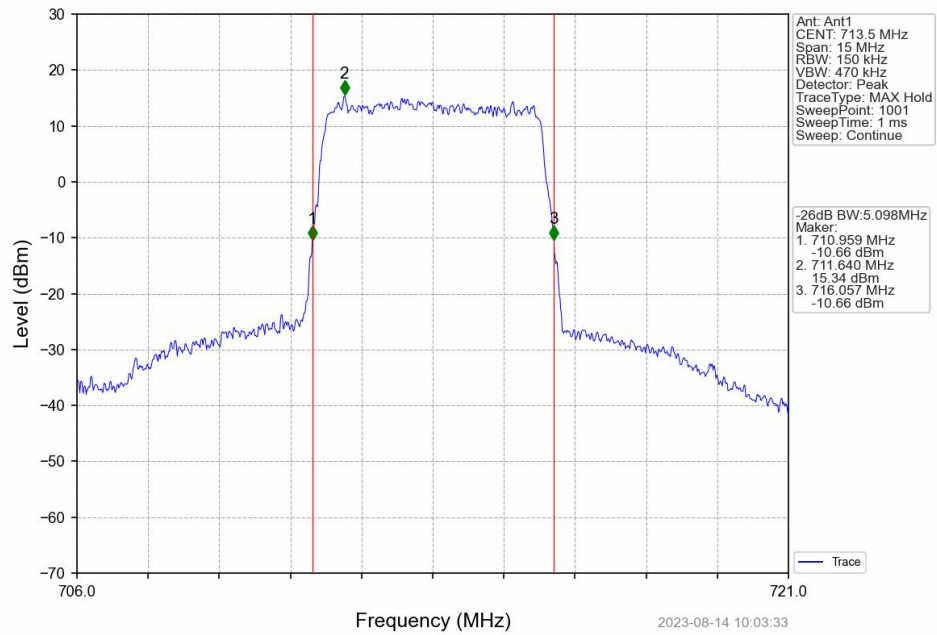
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



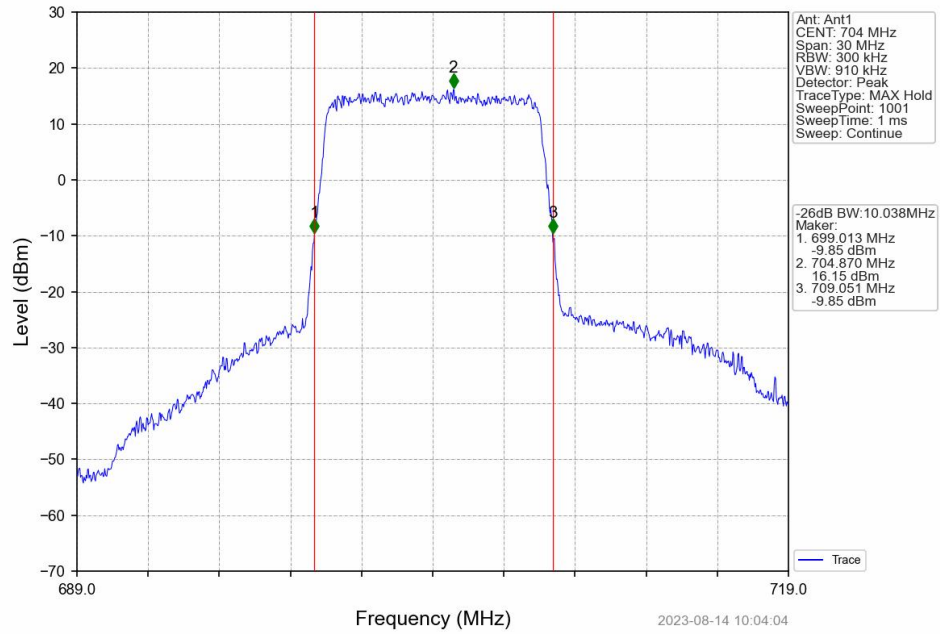
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



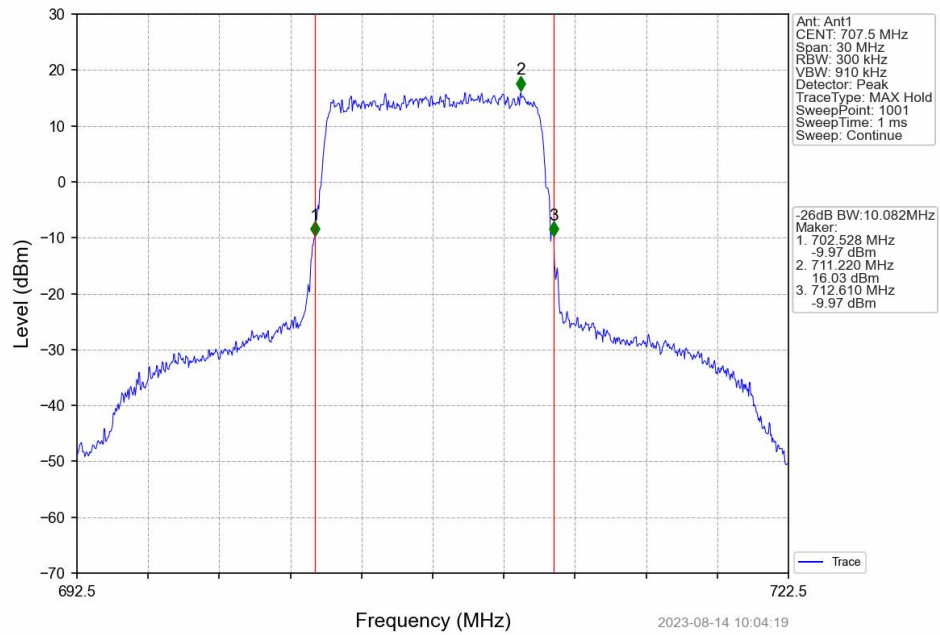
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



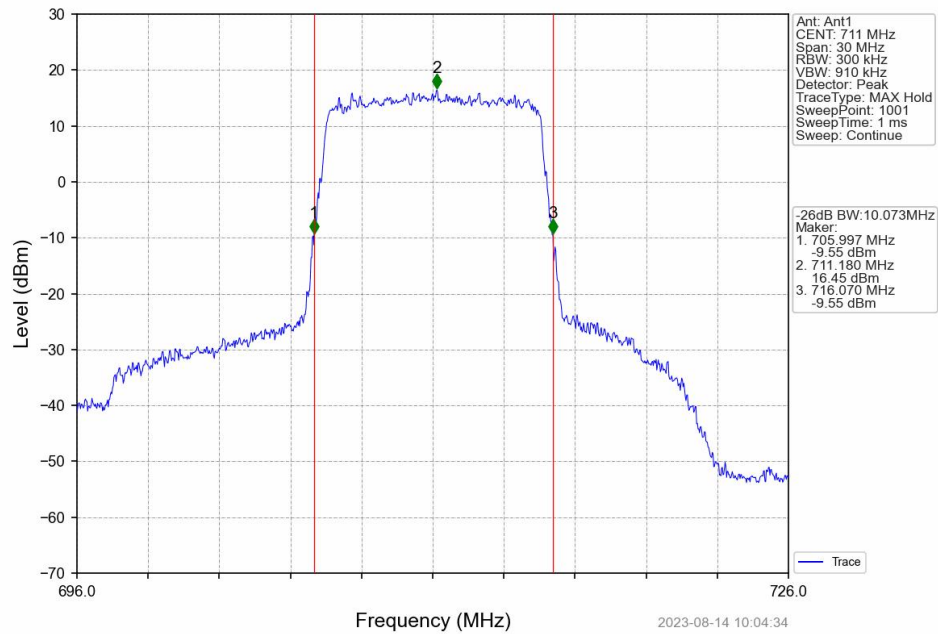
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



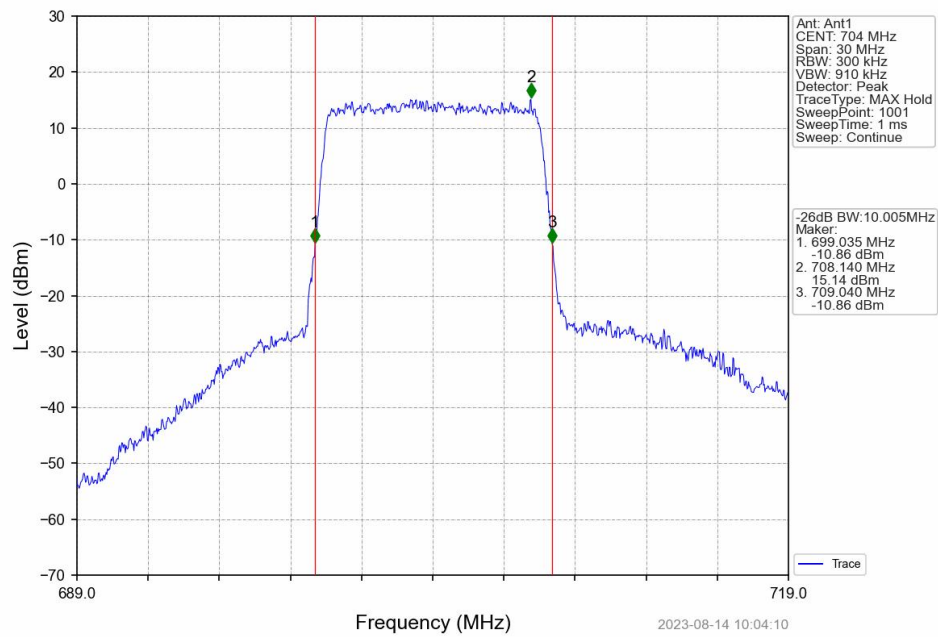
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



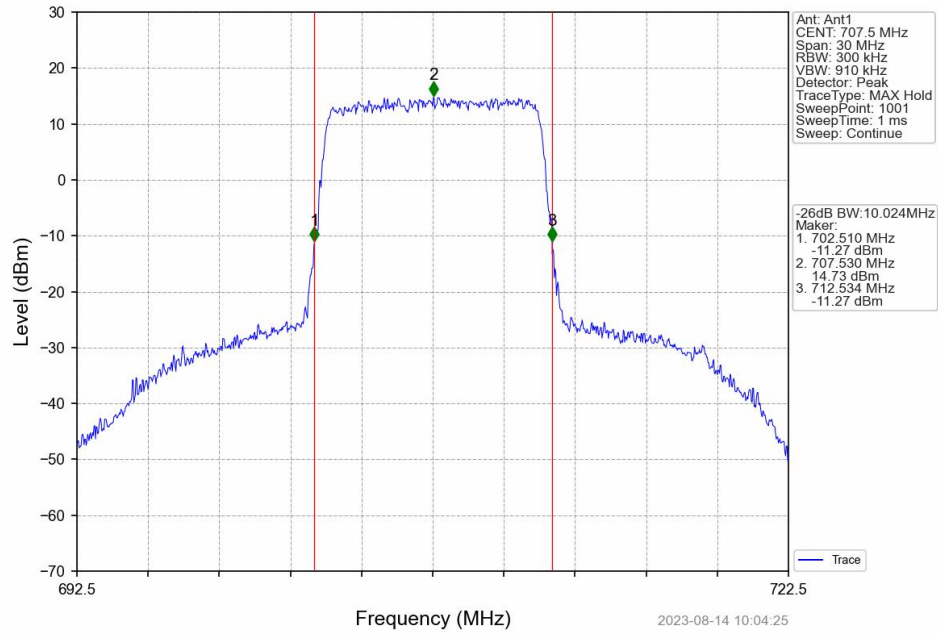
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



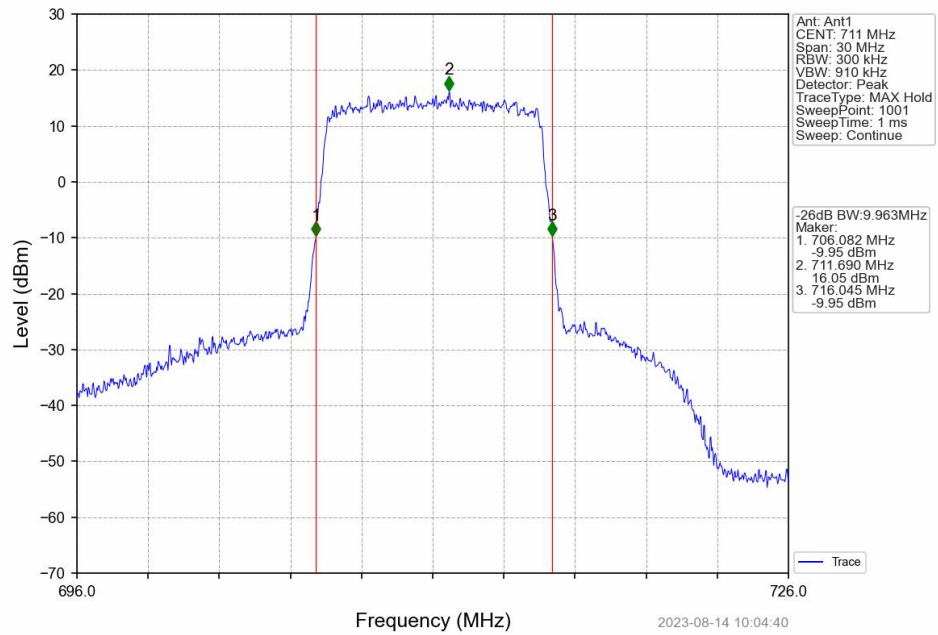
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



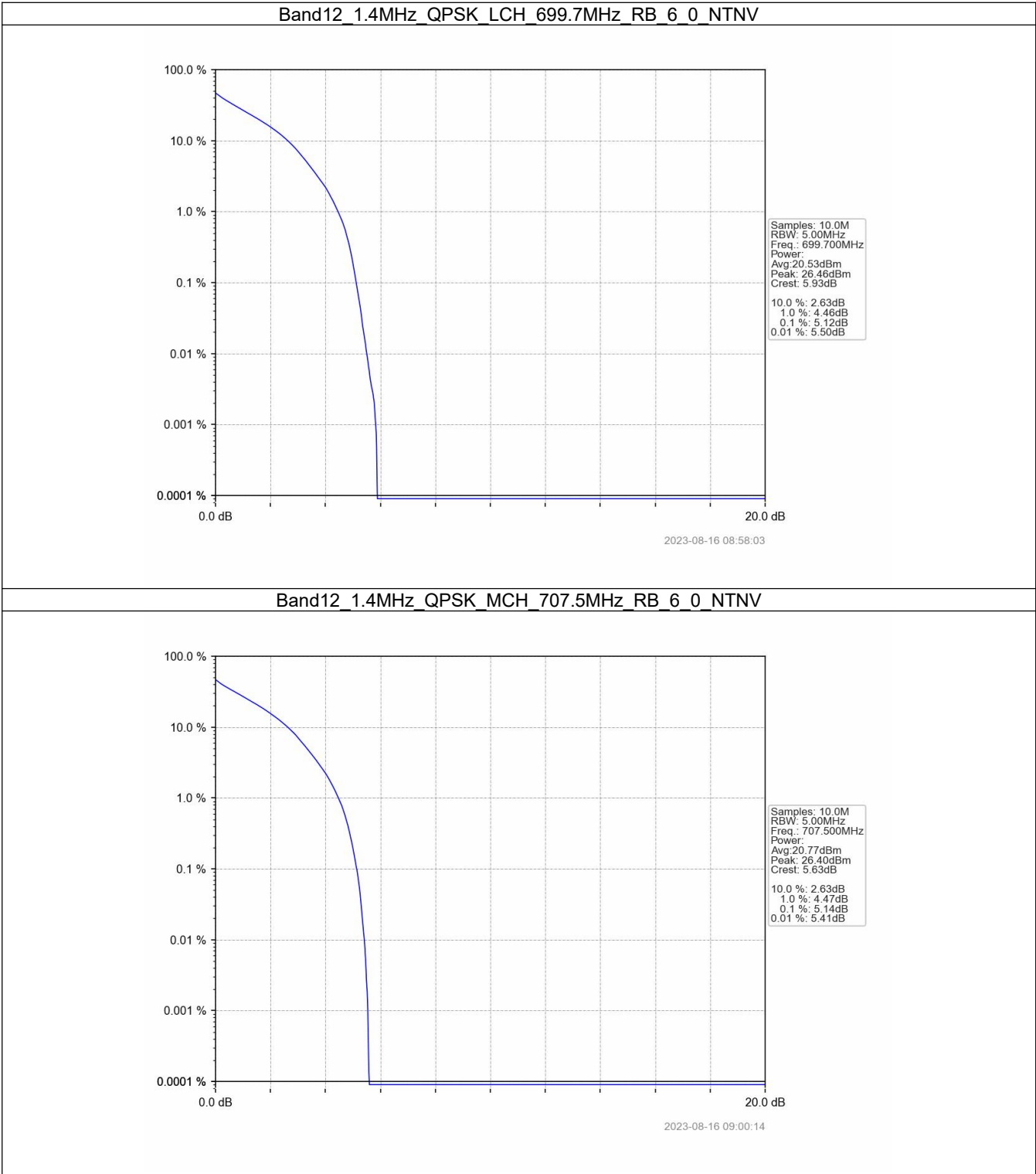
5. Peak-Average Ratio

5.1 B12_1.4MHz

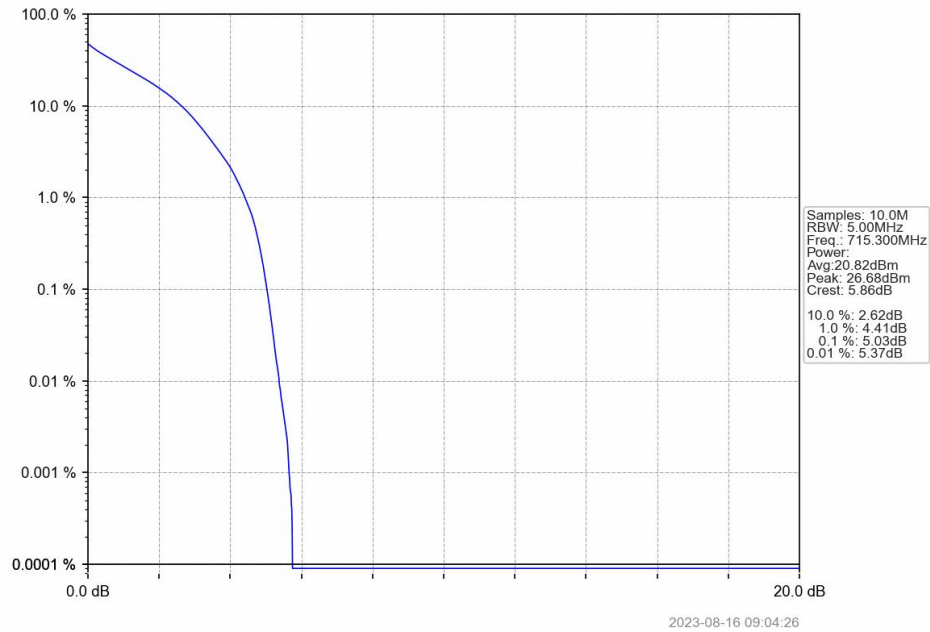
5.1.1 Test Result

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	5.12	<=13	Pass
	707.5	6	0	5.14	<=13	Pass
	715.3	6	0	5.03	<=13	Pass
16QAM	699.7	6	0	5.89	<=13	Pass
	707.5	6	0	6.00	<=13	Pass
	715.3	6	0	5.87	<=13	Pass

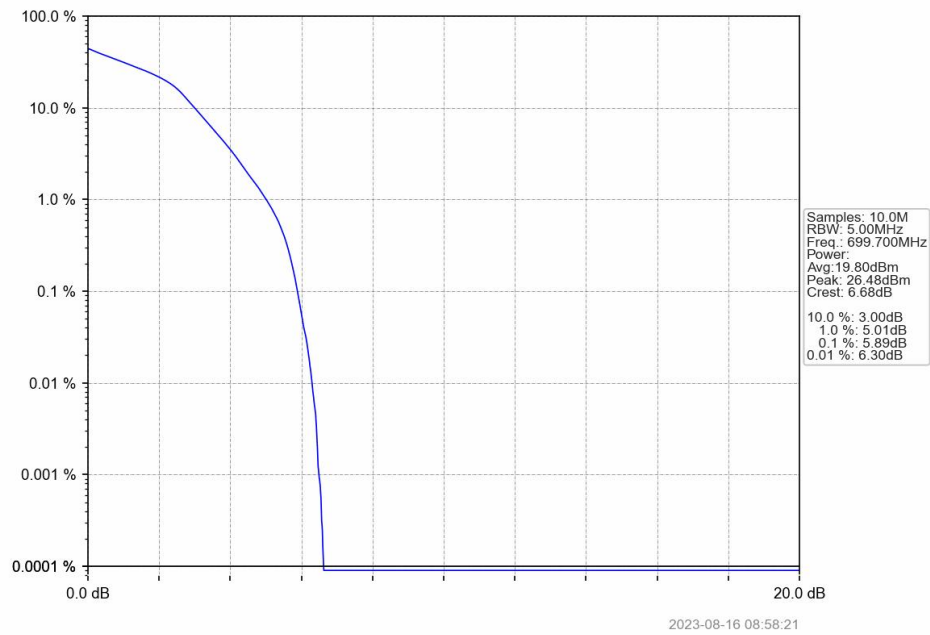
5.1.2 Test Graph



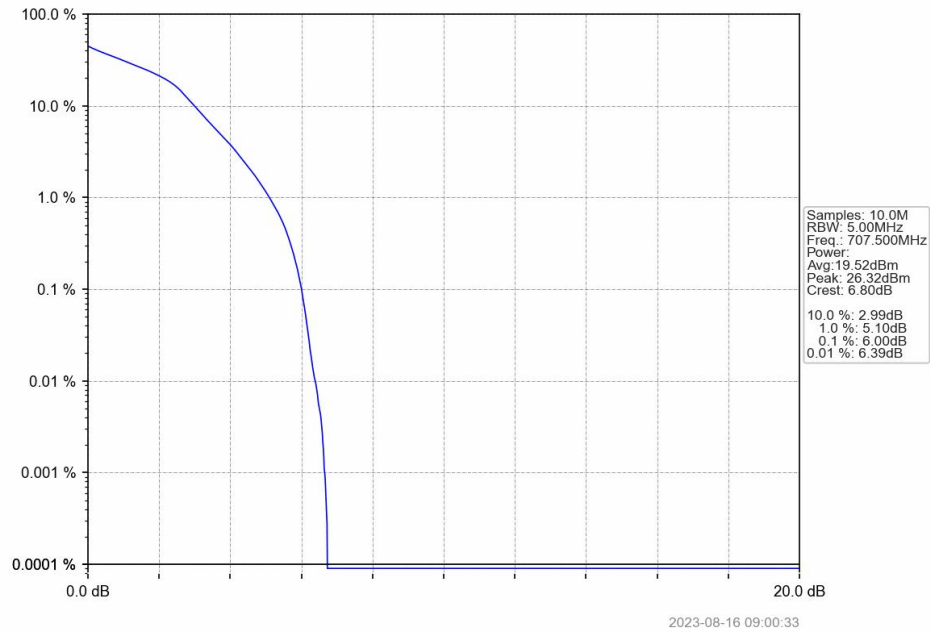
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



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

