

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	21.35	1.28	20.48	<=34.77	Pass	
			2	21.76	1.28	20.89	<=34.77	Pass	
			5	21.76	1.28	20.89	<=34.77	Pass	
		3	0	21.51	1.28	20.64	<=34.77	Pass	
			2	21.65	1.28	20.78	<=34.77	Pass	
			3	21.58	1.28	20.71	<=34.77	Pass	
		6	0	20.62	1.28	19.75	<=34.77	Pass	
		707.5	1	0	21.52	1.28	20.65	<=34.77	Pass
				2	21.62	1.28	20.75	<=34.77	Pass
	5			21.72	1.28	20.85	<=34.77	Pass	
	3		0	21.40	1.28	20.53	<=34.77	Pass	
			2	21.42	1.28	20.55	<=34.77	Pass	
			3	21.40	1.28	20.53	<=34.77	Pass	
	715.3	6	0	20.62	1.28	19.75	<=34.77	Pass	
			1	0	21.44	1.28	20.57	<=34.77	Pass
				2	21.49	1.28	20.62	<=34.77	Pass
		5		21.58	1.28	20.71	<=34.77	Pass	
		3	0	21.47	1.28	20.60	<=34.77	Pass	
			2	21.41	1.28	20.54	<=34.77	Pass	
			3	21.36	1.28	20.49	<=34.77	Pass	
		6	0	20.59	1.28	19.72	<=34.77	Pass	
16QAM		699.7	1	0	20.30	1.28	19.43	<=34.77	Pass
	2			20.45	1.28	19.58	<=34.77	Pass	
	5			20.39	1.28	19.52	<=34.77	Pass	
	3		0	20.64	1.28	19.77	<=34.77	Pass	
			2	20.89	1.28	20.02	<=34.77	Pass	
			3	20.75	1.28	19.88	<=34.77	Pass	
	6		0	19.71	1.28	18.84	<=34.77	Pass	
	707.5		1	0	20.55	1.28	19.68	<=34.77	Pass
				2	20.77	1.28	19.90	<=34.77	Pass
		5		20.63	1.28	19.76	<=34.77	Pass	
		3	0	20.53	1.28	19.66	<=34.77	Pass	
			2	20.54	1.28	19.67	<=34.77	Pass	
			3	20.50	1.28	19.63	<=34.77	Pass	
	6	0	19.53	1.28	18.66	<=34.77	Pass		
	715.3	1	0	20.21	1.28	19.34	<=34.77	Pass	
			2	20.78	1.28	19.91	<=34.77	Pass	
			5	20.80	1.28	19.93	<=34.77	Pass	
		3	0	20.32	1.28	19.45	<=34.77	Pass	
			2	20.45	1.28	19.58	<=34.77	Pass	
			3	20.46	1.28	19.59	<=34.77	Pass	
		6	0	19.32	1.28	18.45	<=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 / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	21.41	1.28	20.54	<=34.77	Pass
			7	21.60	1.28	20.73	<=34.77	Pass
			14	21.44	1.28	20.57	<=34.77	Pass
		8	0	20.69	1.28	19.82	<=34.77	Pass
			4	20.68	1.28	19.81	<=34.77	Pass
			7	20.72	1.28	19.85	<=34.77	Pass
		15	0	20.65	1.28	19.78	<=34.77	Pass
	707.5	1	0	21.42	1.28	20.55	<=34.77	Pass
			7	21.51	1.28	20.64	<=34.77	Pass
			14	21.26	1.28	20.39	<=34.77	Pass
		8	0	20.48	1.28	19.61	<=34.77	Pass
			4	20.50	1.28	19.63	<=34.77	Pass
			7	20.53	1.28	19.66	<=34.77	Pass
		15	0	20.44	1.28	19.57	<=34.77	Pass
	714.5	1	0	21.56	1.28	20.69	<=34.77	Pass
			7	21.45	1.28	20.58	<=34.77	Pass
			14	21.41	1.28	20.54	<=34.77	Pass
		8	0	20.66	1.28	19.79	<=34.77	Pass
			4	20.58	1.28	19.71	<=34.77	Pass
			7	20.40	1.28	19.53	<=34.77	Pass
		15	0	20.44	1.28	19.57	<=34.77	Pass
16QAM	700.5	1	0	20.48	1.28	19.61	<=34.77	Pass
			7	20.74	1.28	19.87	<=34.77	Pass
			14	20.57	1.28	19.70	<=34.77	Pass
		8	0	19.95	1.28	19.08	<=34.77	Pass
			4	20.01	1.28	19.14	<=34.77	Pass
			7	20.04	1.28	19.17	<=34.77	Pass
		15	0	19.68	1.28	18.81	<=34.77	Pass
	707.5	1	0	20.86	1.28	19.99	<=34.77	Pass
			7	21.00	1.28	20.13	<=34.77	Pass
			14	20.59	1.28	19.72	<=34.77	Pass
		8	0	19.63	1.28	18.76	<=34.77	Pass
			4	19.68	1.28	18.81	<=34.77	Pass
			7	19.60	1.28	18.73	<=34.77	Pass
		15	0	19.64	1.28	18.77	<=34.77	Pass
	714.5	1	0	20.72	1.28	19.85	<=34.77	Pass
			7	20.62	1.28	19.75	<=34.77	Pass
			14	20.70	1.28	19.83	<=34.77	Pass
		8	0	19.67	1.28	18.80	<=34.77	Pass
			4	20.04	1.28	19.17	<=34.77	Pass
			7	19.74	1.28	18.87	<=34.77	Pass
		15	0	19.53	1.28	18.66	<=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	RB Allocation	Conducted Power	Gain	ERP (dBm)	Verdict

	(MHz)	Size	Offset	(dBm)	(dBi)	Result	Limit		
QPSK	701.5	1	0	21.37	1.28	20.50	<=34.77	Pass	
			13	21.50	1.28	20.63	<=34.77	Pass	
			24	21.32	1.28	20.45	<=34.77	Pass	
		12	0	20.56	1.28	19.69	<=34.77	Pass	
			6	20.67	1.28	19.80	<=34.77	Pass	
			13	20.43	1.28	19.56	<=34.77	Pass	
		25	0	20.51	1.28	19.64	<=34.77	Pass	
		707.5	1	0	21.32	1.28	20.45	<=34.77	Pass
				13	21.30	1.28	20.43	<=34.77	Pass
	24			21.40	1.28	20.53	<=34.77	Pass	
	12		0	20.34	1.28	19.47	<=34.77	Pass	
			6	20.42	1.28	19.55	<=34.77	Pass	
			13	20.41	1.28	19.54	<=34.77	Pass	
	25		0	20.37	1.28	19.50	<=34.77	Pass	
	713.5		1	0	21.10	1.28	20.23	<=34.77	Pass
				13	21.49	1.28	20.62	<=34.77	Pass
		24		21.30	1.28	20.43	<=34.77	Pass	
		12	0	20.45	1.28	19.58	<=34.77	Pass	
			6	20.35	1.28	19.48	<=34.77	Pass	
			13	20.38	1.28	19.51	<=34.77	Pass	
		25	0	20.44	1.28	19.57	<=34.77	Pass	
16QAM		701.5	1	0	19.87	1.28	19.00	<=34.77	Pass
				13	20.48	1.28	19.61	<=34.77	Pass
	24			20.40	1.28	19.53	<=34.77	Pass	
	12		0	19.55	1.28	18.68	<=34.77	Pass	
			6	19.69	1.28	18.82	<=34.77	Pass	
			13	19.44	1.28	18.57	<=34.77	Pass	
	25		0	19.55	1.28	18.68	<=34.77	Pass	
	707.5		1	0	20.54	1.28	19.67	<=34.77	Pass
				13	20.17	1.28	19.30	<=34.77	Pass
		24		20.24	1.28	19.37	<=34.77	Pass	
		12	0	19.39	1.28	18.52	<=34.77	Pass	
			6	19.41	1.28	18.54	<=34.77	Pass	
			13	19.47	1.28	18.60	<=34.77	Pass	
		25	0	19.46	1.28	18.59	<=34.77	Pass	
		713.5	1	0	20.32	1.28	19.45	<=34.77	Pass
				13	20.96	1.28	20.09	<=34.77	Pass
	24			20.78	1.28	19.91	<=34.77	Pass	
	12		0	19.29	1.28	18.42	<=34.77	Pass	
			6	19.56	1.28	18.69	<=34.77	Pass	
			13	19.51	1.28	18.64	<=34.77	Pass	
	25		0	19.43	1.28	18.56	<=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 / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	21.33	1.28	20.46	<=34.77	Pass
			25	21.47	1.28	20.60	<=34.77	Pass
			49	21.35	1.28	20.48	<=34.77	Pass
		25	0	20.46	1.28	19.59	<=34.77	Pass
			13	20.31	1.28	19.44	<=34.77	Pass
			25	20.35	1.28	19.48	<=34.77	Pass
		50	0	20.38	1.28	19.51	<=34.77	Pass
	707.5	1	0	21.13	1.28	20.26	<=34.77	Pass
			0	21.13	1.28	20.26	<=34.77	Pass

		25	25	21.28	1.28	20.41	<=34.77	Pass
			49	21.27	1.28	20.40	<=34.77	Pass
			0	20.27	1.28	19.40	<=34.77	Pass
			13	20.35	1.28	19.48	<=34.77	Pass
			25	20.36	1.28	19.49	<=34.77	Pass
		50	0	20.30	1.28	19.43	<=34.77	Pass
	711	1	0	21.19	1.28	20.32	<=34.77	Pass
			25	21.33	1.28	20.46	<=34.77	Pass
			49	21.18	1.28	20.31	<=34.77	Pass
		25	0	20.36	1.28	19.49	<=34.77	Pass
			13	20.43	1.28	19.56	<=34.77	Pass
			25	20.39	1.28	19.52	<=34.77	Pass
			0	20.35	1.28	19.48	<=34.77	Pass
		50	0	20.35	1.28	19.48	<=34.77	Pass
16QAM	704	1	0	20.34	1.28	19.47	<=34.77	Pass
			25	20.42	1.28	19.55	<=34.77	Pass
			49	20.24	1.28	19.37	<=34.77	Pass
		25	0	19.50	1.28	18.63	<=34.77	Pass
			13	19.62	1.28	18.75	<=34.77	Pass
	707.5	1	25	19.60	1.28	18.73	<=34.77	Pass
			0	20.77	1.28	19.90	<=34.77	Pass
			25	20.96	1.28	20.09	<=34.77	Pass
		25	49	20.76	1.28	19.89	<=34.77	Pass
			0	19.40	1.28	18.53	<=34.77	Pass
			13	19.41	1.28	18.54	<=34.77	Pass
	711	1	25	19.50	1.28	18.63	<=34.77	Pass
			0	20.59	1.28	19.72	<=34.77	Pass
			25	21.19	1.28	20.32	<=34.77	Pass
		25	49	21.19	1.28	20.32	<=34.77	Pass
			0	19.42	1.28	18.55	<=34.77	Pass
			13	19.57	1.28	18.70	<=34.77	Pass
			25	19.55	1.28	18.68	<=34.77	Pass
		25	0	19.55	1.28	18.68	<=34.77	Pass
			13	19.57	1.28	18.70	<=34.77	Pass
			25	19.55	1.28	18.68	<=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	-0.744	-0.0011	-2.5 to 2.5	Pass
					3.85	-1.559	-0.0022	-2.5 to 2.5	Pass
					4.43	-1.059	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-0.458	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.873	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-1.187	-0.0017	-2.5 to 2.5	Pass
					3.85	-1.717	-0.0024	-2.5 to 2.5	Pass
					4.43	-0.429	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass

	715.3	6	0	-10	3.85	-0.744	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-1.245	-0.0018	-2.5 to 2.5	Pass
				20	3.27	-0.801	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
					4.43	-0.129	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-1.388	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				40	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-0.458	-0.0007	-2.5 to 2.5	Pass
					3.85	0.243	0.0003	-2.5 to 2.5	Pass
					4.43	-0.958	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.672	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-1.016	-0.0015	-2.5 to 2.5	Pass
				40	3.85	0.386	0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-1.316	-0.0019	-2.5 to 2.5	Pass
					3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
					4.43	-0.114	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-0.801	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
					4.43	-0.744	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	0.072	0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.458	-0.0006	-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	-0.887	-0.0013	-2.5 to 2.5	Pass
					3.85	-0.415	-0.0006	-2.5 to 2.5	Pass

					4.43	-0.100	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	0.572	0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				10	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				30	3.85	0.887	0.0013	-2.5 to 2.5	Pass
				40	3.85	0.901	0.0013	-2.5 to 2.5	Pass
				50	3.85	1.030	0.0015	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-0.200	-0.0003	-2.5 to 2.5	Pass
					3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
					4.43	-0.887	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.873	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.715	-0.0010	-2.5 to 2.5	Pass
					3.85	0.057	0.0001	-2.5 to 2.5	Pass
					4.43	-0.587	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.958	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	0.129	0.0002	-2.5 to 2.5	Pass
					3.85	0.672	0.0010	-2.5 to 2.5	Pass
					4.43	0.429	0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.744	0.0011	-2.5 to 2.5	Pass
				-20	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				0	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				10	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
				40	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				50	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-0.672	-0.0009	-2.5 to 2.5	Pass
					3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
					4.43	-0.901	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.958	-0.0013	-2.5 to 2.5	Pass
					3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
					4.43	-0.401	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-1.345	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass

				30	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.329	-0.0005	-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	-0.501	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.386	-0.0006	-2.5 to 2.5	Pass
					4.43	-0.644	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
				50	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-1.860	-0.0026	-2.5 to 2.5	Pass
					3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
					4.43	-0.157	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				0	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				40	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				50	3.85	-1.316	-0.0019	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.014	0.0000	-2.5 to 2.5	Pass
					3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
					4.43	-1.802	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-2.232	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-1.502	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-1.931	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-0.758	-0.0011	-2.5 to 2.5	Pass
					3.85	-2.146	-0.0031	-2.5 to 2.5	Pass
					4.43	-1.073	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-2.632	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-1.745	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-1.016	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-0.172	-0.0002	-2.5 to 2.5	Pass
					3.85	0.143	0.0002	-2.5 to 2.5	Pass
					4.43	-0.386	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-1.502	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass

				-10	3.85	-2.317	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass
				10	3.85	0.329	0.0005	-2.5 to 2.5	Pass
				30	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				50	3.85	0.672	0.0009	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-1.101	-0.0015	-2.5 to 2.5	Pass
					3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
					4.43	-1.073	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-1.373	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				40	3.85	0.658	0.0009	-2.5 to 2.5	Pass
				50	3.85	0.300	0.0004	-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	0.672	0.0010	-2.5 to 2.5	Pass
					3.85	0.715	0.0010	-2.5 to 2.5	Pass
					4.43	0.257	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.343	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.472	0.0007	-2.5 to 2.5	Pass
				0	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.601	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.772	0.0011	-2.5 to 2.5	Pass
				40	3.85	0.257	0.0004	-2.5 to 2.5	Pass
				50	3.85	0.143	0.0002	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-1.144	-0.0016	-2.5 to 2.5	Pass
					3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.315	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-1.287	-0.0018	-2.5 to 2.5	Pass
					3.85	-1.702	-0.0024	-2.5 to 2.5	Pass
					4.43	-0.601	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-1.659	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-1.516	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-0.958	-0.0013	-2.5 to 2.5	Pass

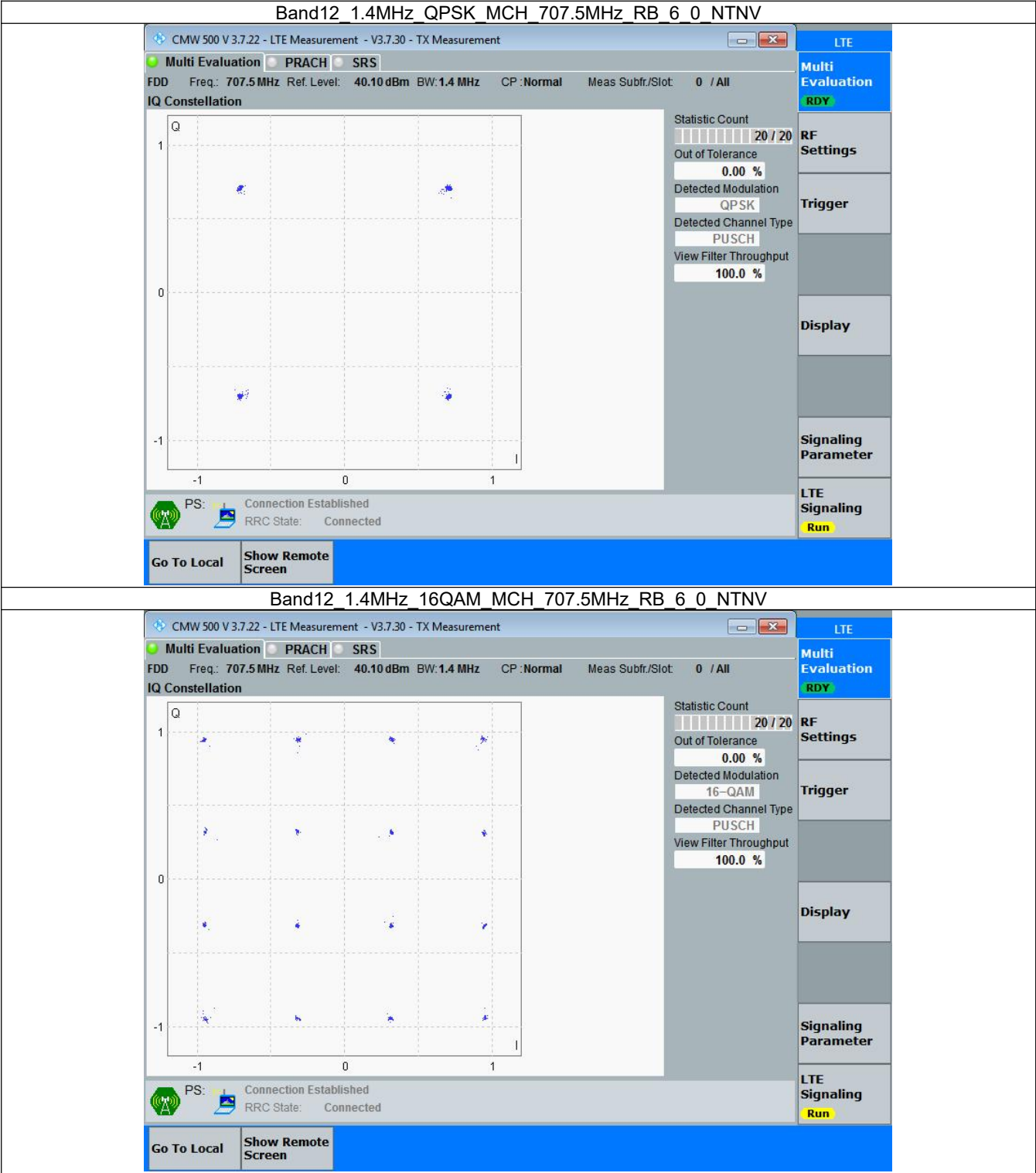
3. Modulation Characteristics

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

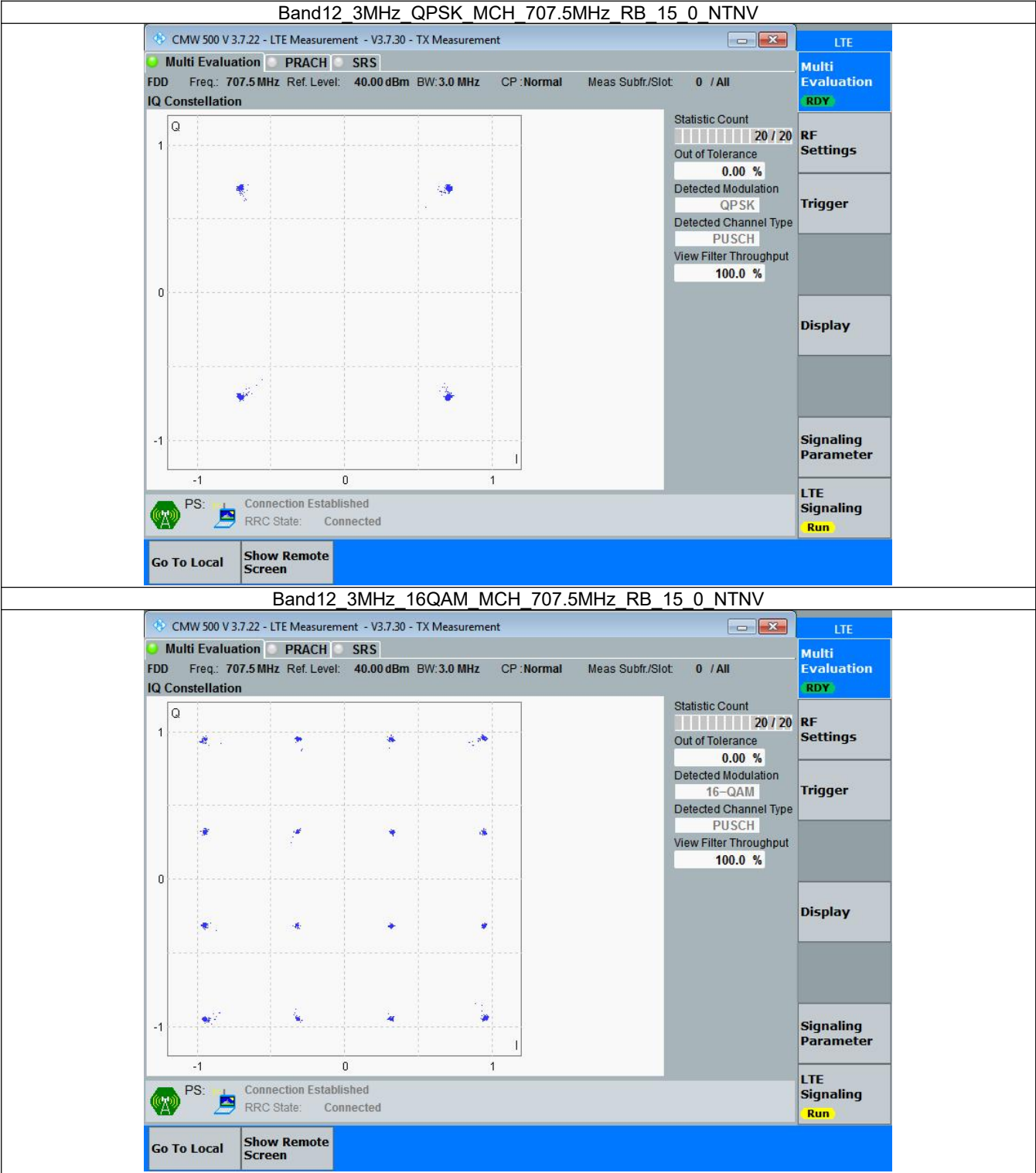


3.2 B12_3MHz

3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / 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

3.2.2 Test Graph

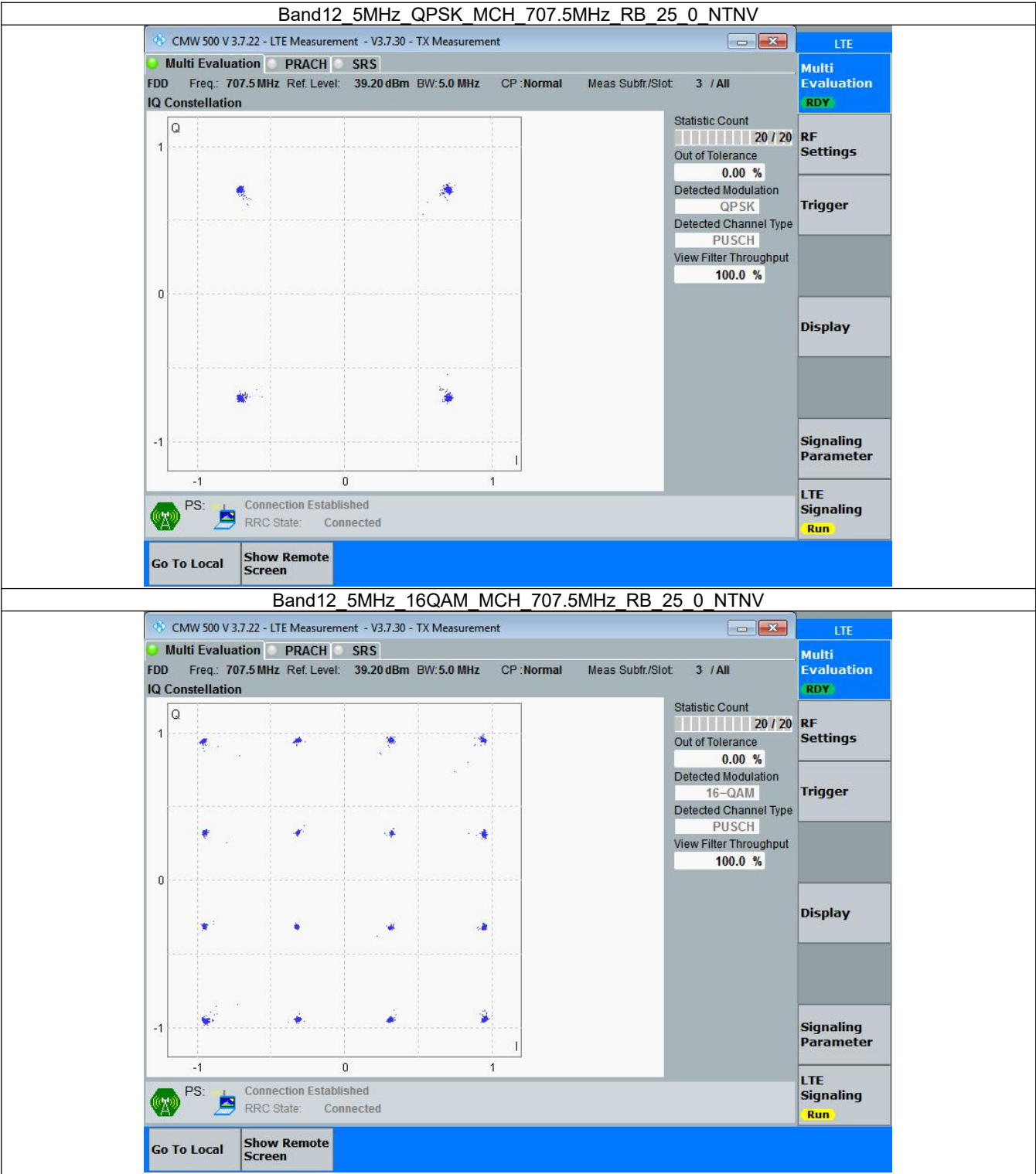


3.3 B12_5MHz

3.3.1 Test Result

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

3.3.2 Test Graph

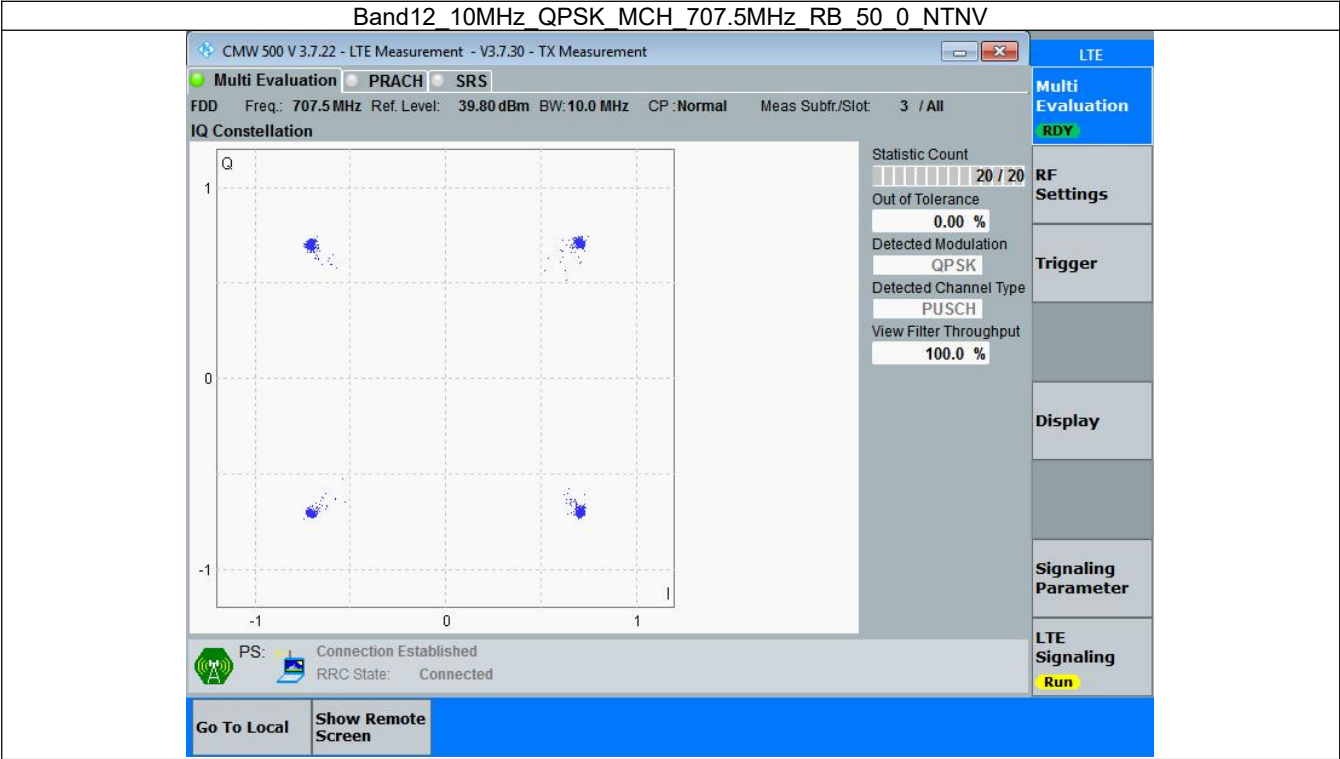


3.4 B12_10MHz

3.4.1 Test Result

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

3.4.2 Test Graph



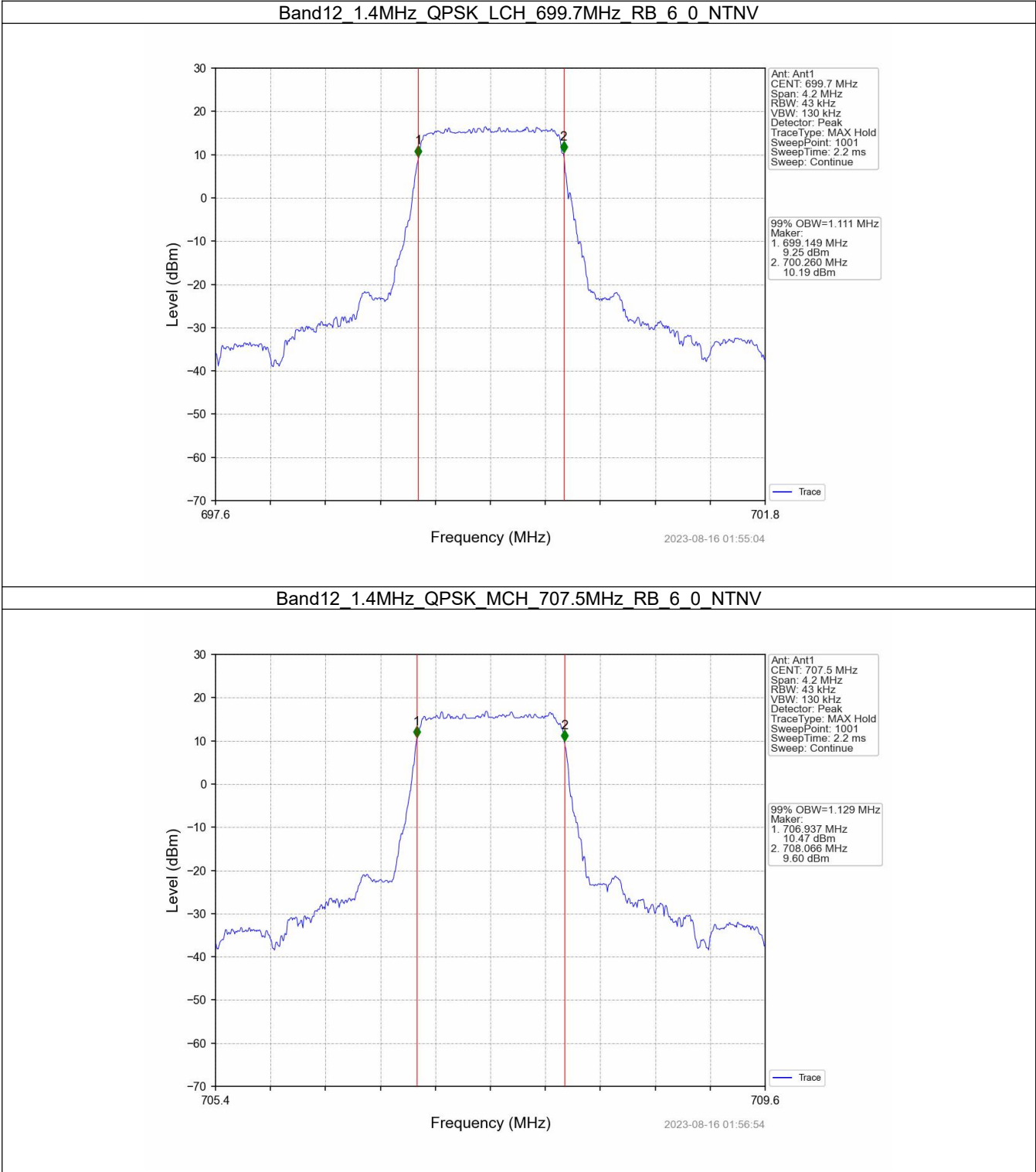
4. 99% & 26dB Bandwidth

4.1 Band12_OBW

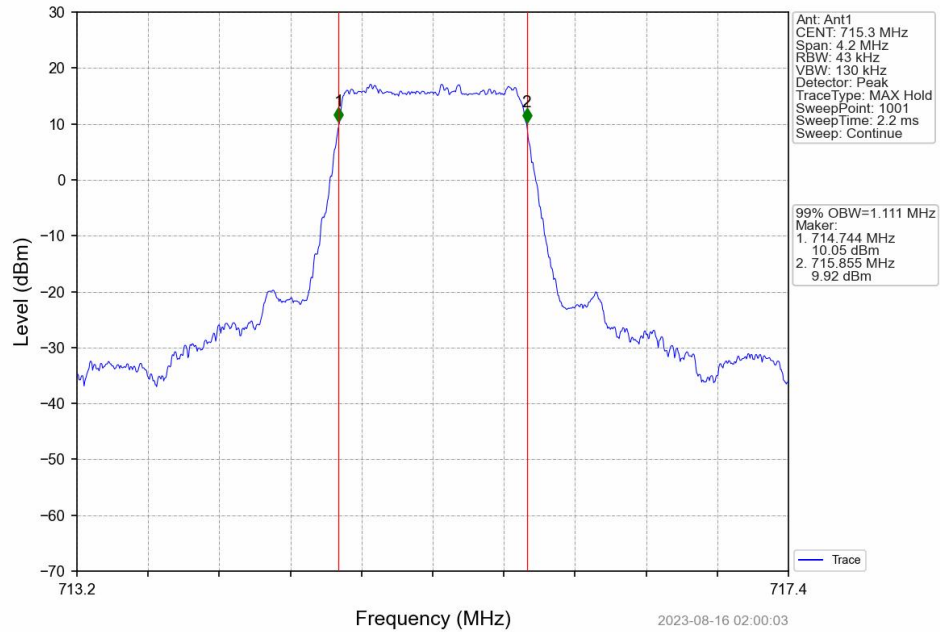
4.1.1 Test Result

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	1.111	Pass
		707.5	6	0	1.129	Pass
		715.3	6	0	1.111	Pass
	16QAM	699.7	6	0	1.105	Pass
		707.5	6	0	1.110	Pass
		715.3	6	0	1.106	Pass
3	QPSK	700.5	15	0	2.737	Pass
		707.5	15	0	2.750	Pass
		714.5	15	0	2.747	Pass
	16QAM	700.5	15	0	2.730	Pass
		707.5	15	0	2.737	Pass
		714.5	15	0	2.717	Pass
5	QPSK	701.5	25	0	4.533	Pass
		707.5	25	0	4.548	Pass
		713.5	25	0	4.556	Pass
	16QAM	701.5	25	0	4.544	Pass
		707.5	25	0	4.540	Pass
		713.5	25	0	4.557	Pass
10	QPSK	704	50	0	9.064	Pass
		707.5	50	0	9.032	Pass
		711	50	0	9.027	Pass

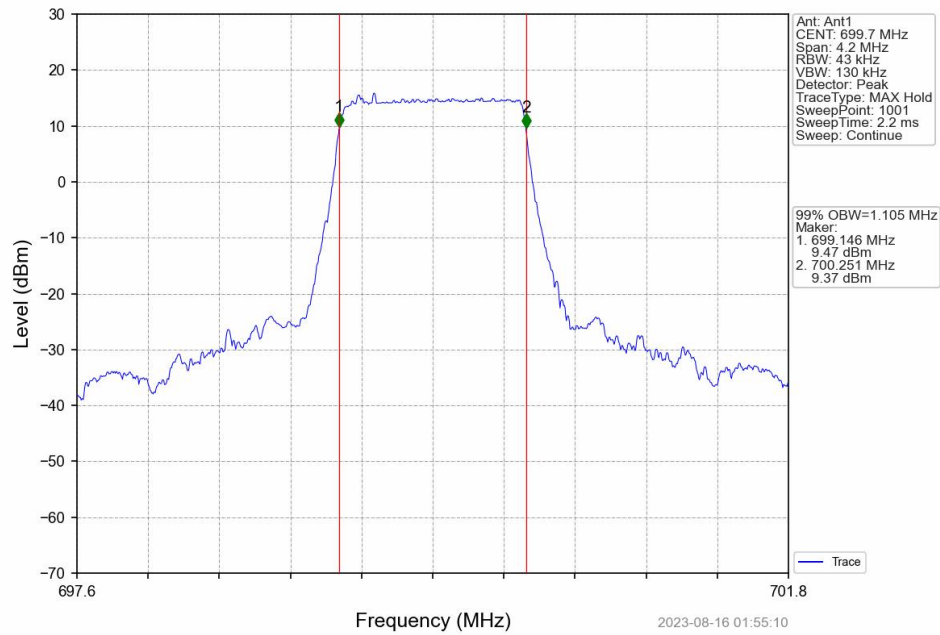
4.1.2 Test Graph



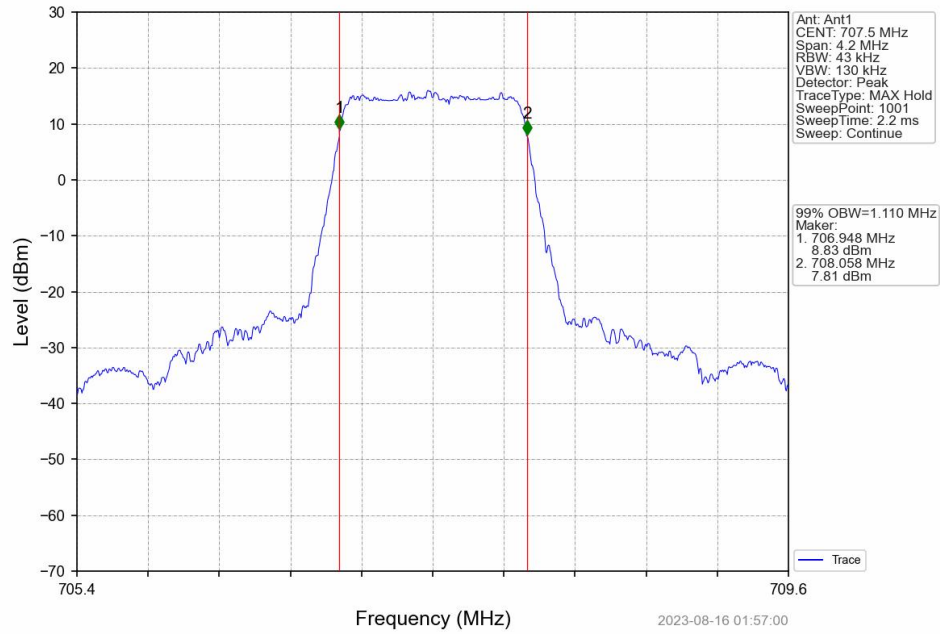
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



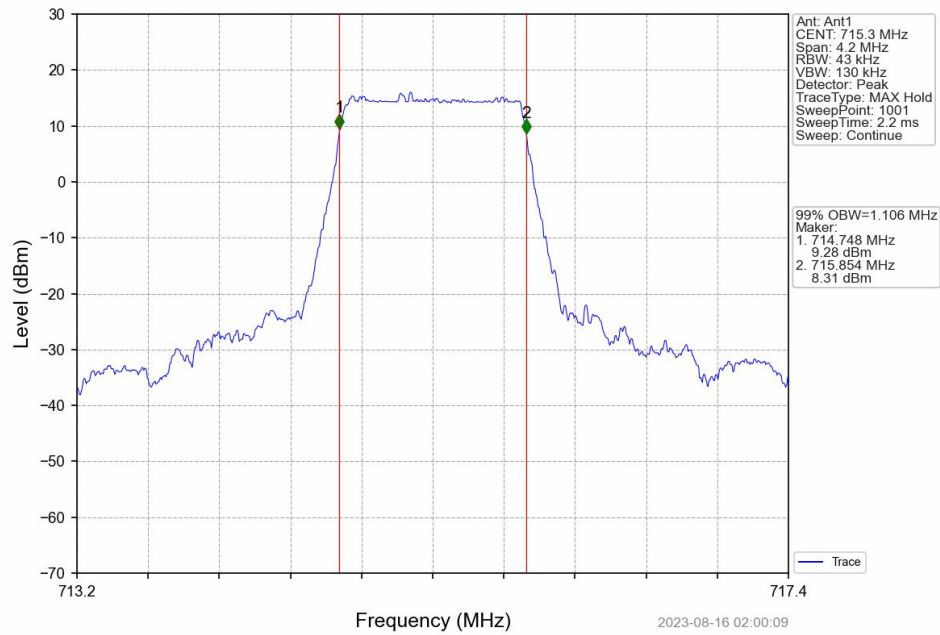
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



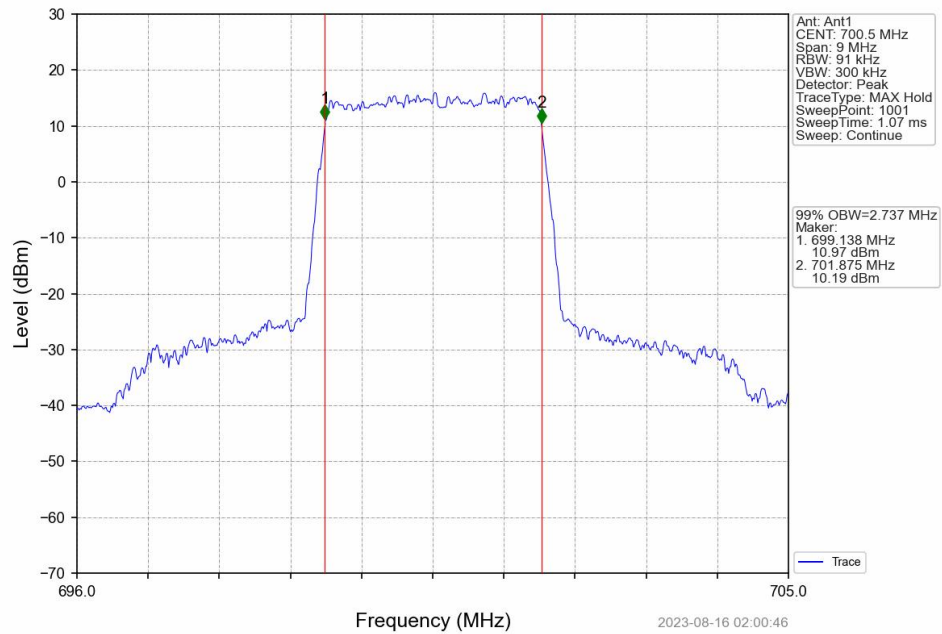
Band12 1.4MHz 16QAM MCH 707.5MHz RB_6 0 NTNV



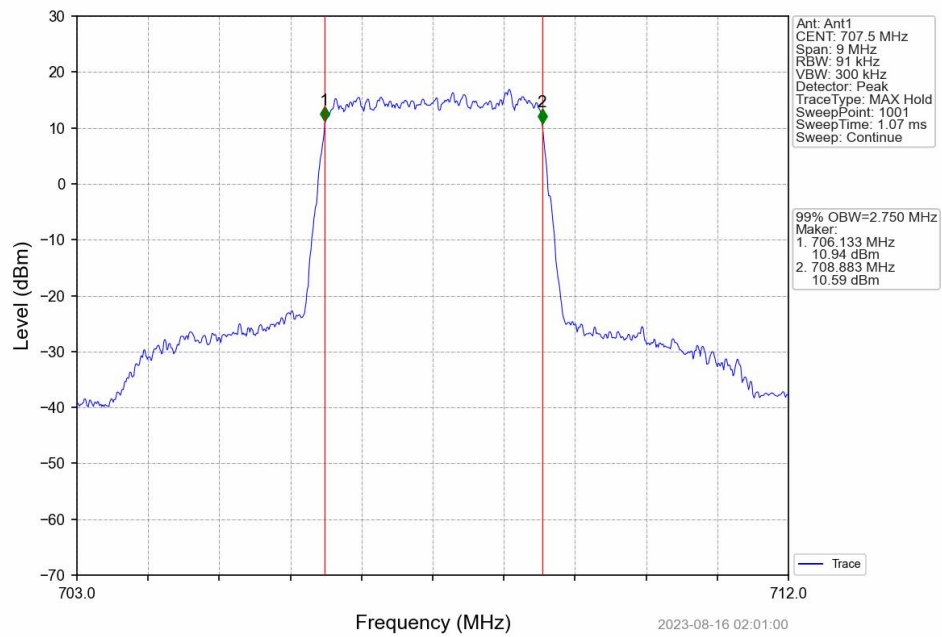
Band12 1.4MHz 16QAM HCH 715.3MHz RB_6 0 NTNV



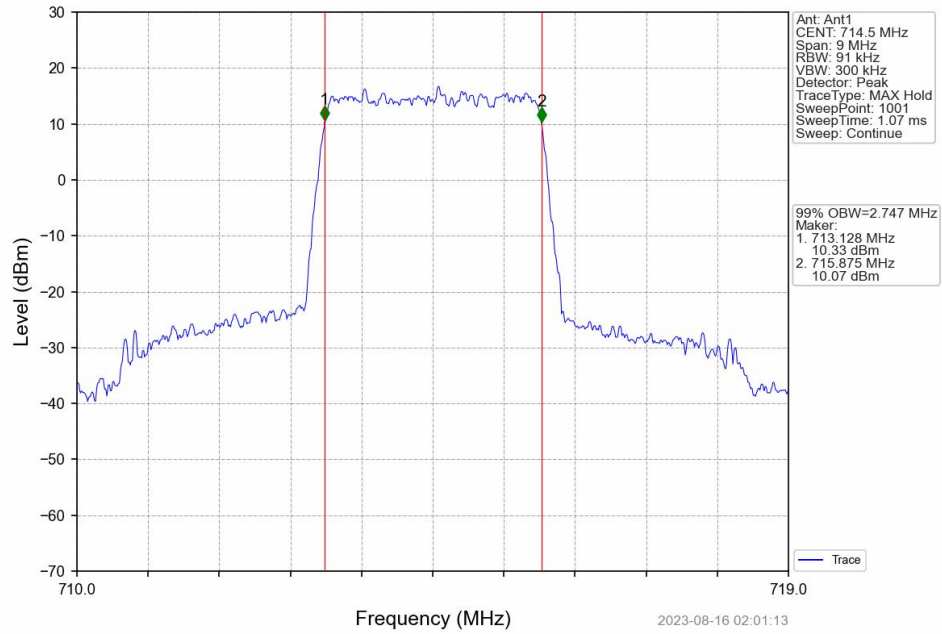
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



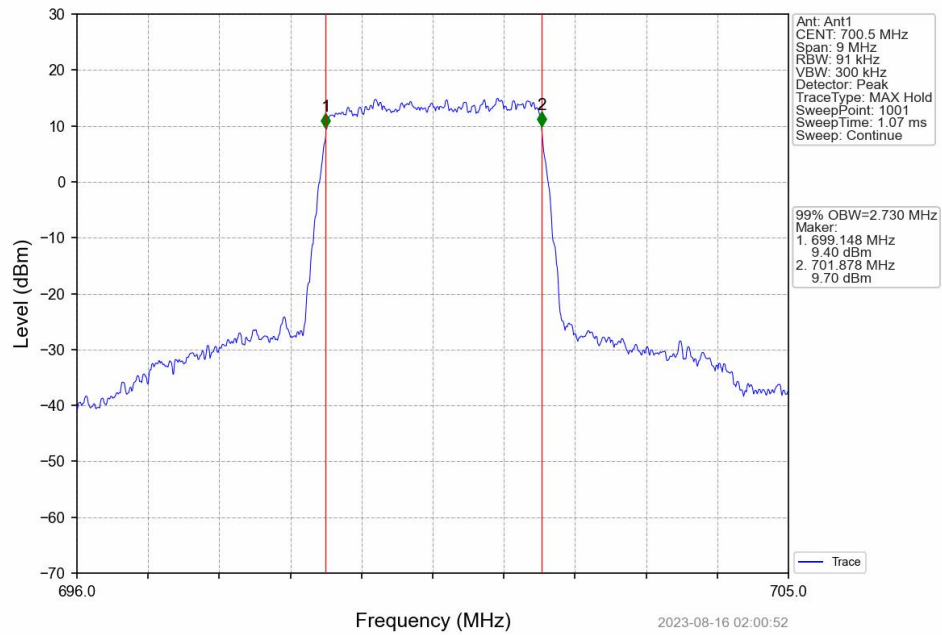
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



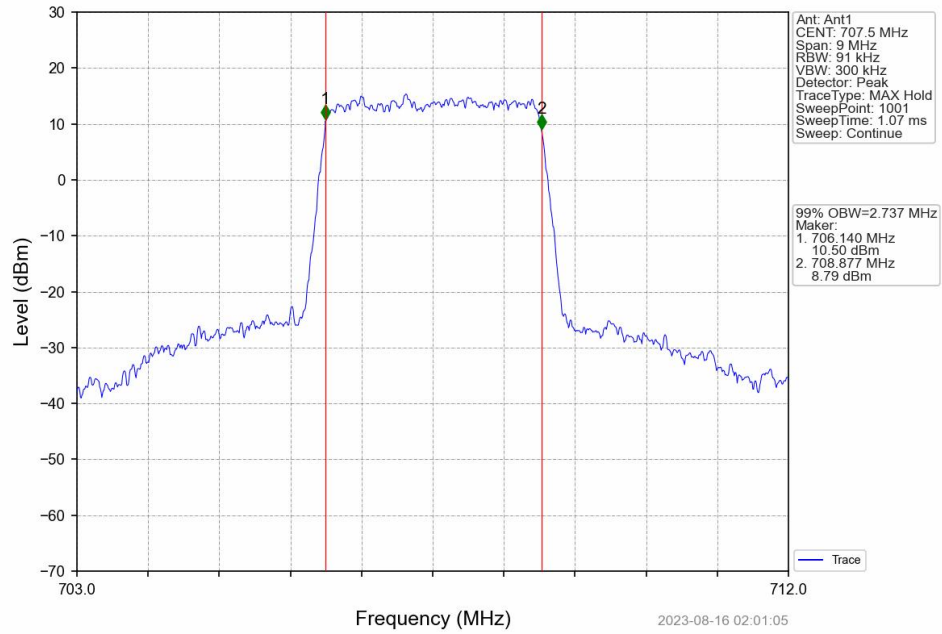
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



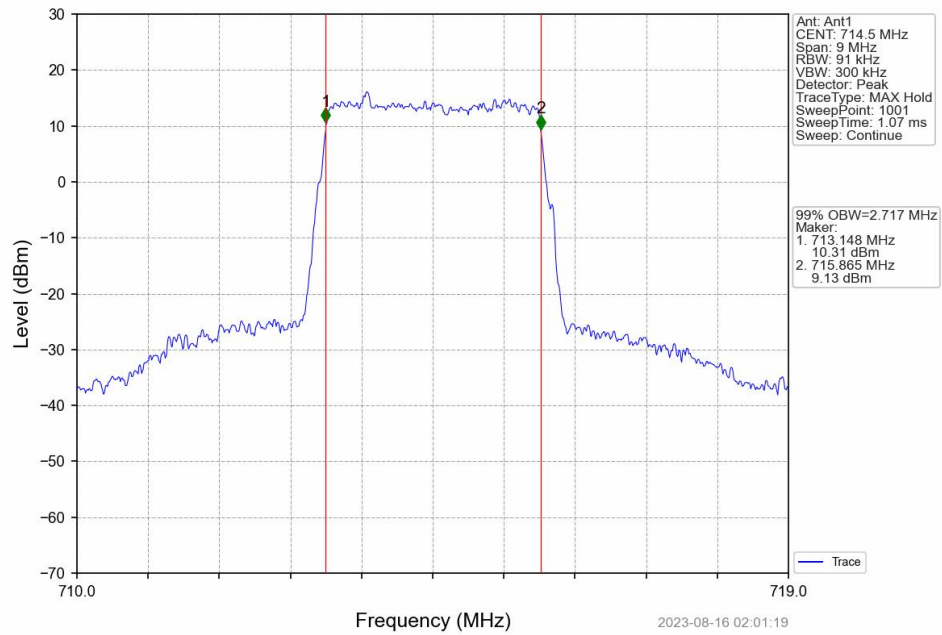
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



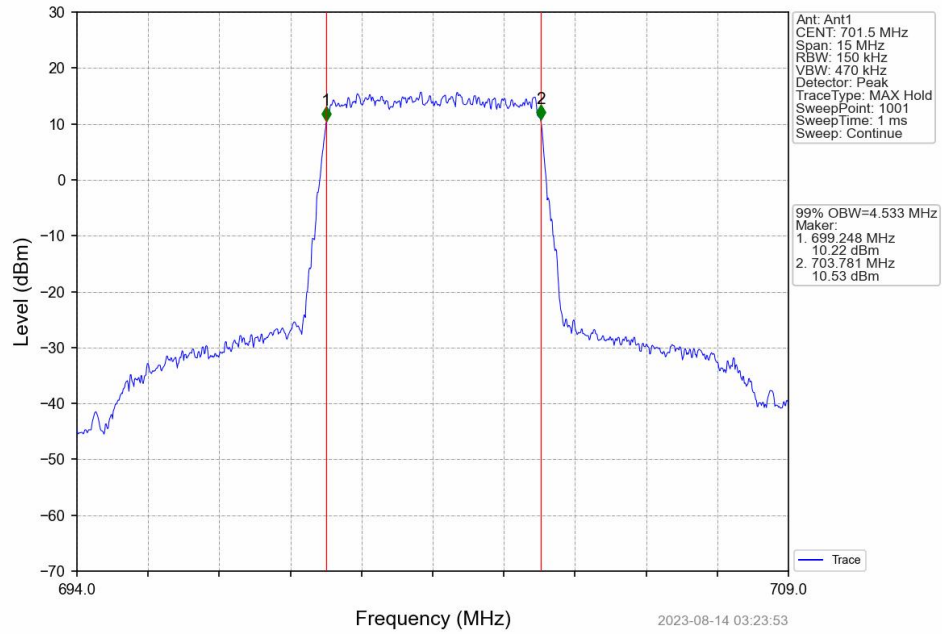
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



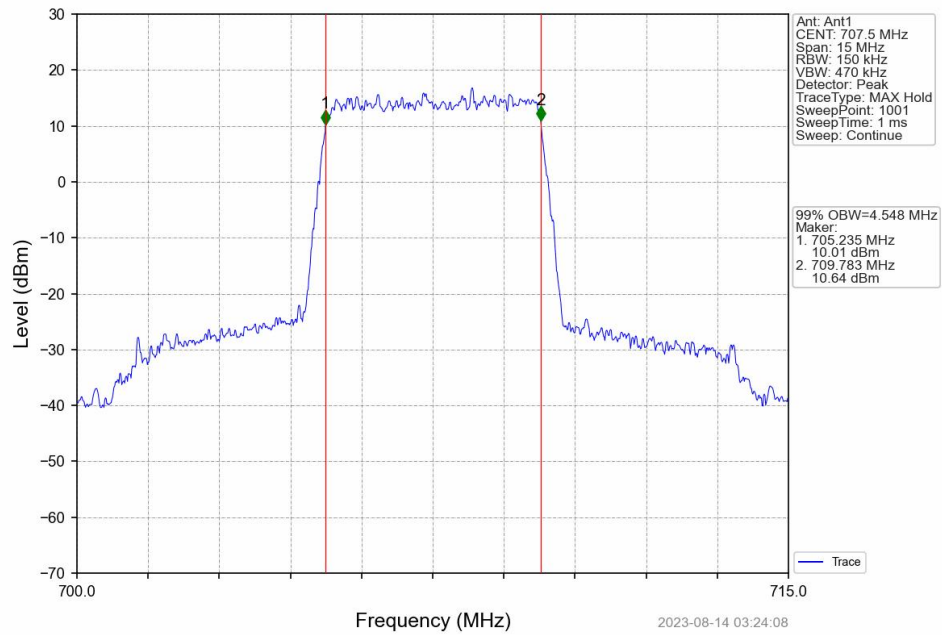
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



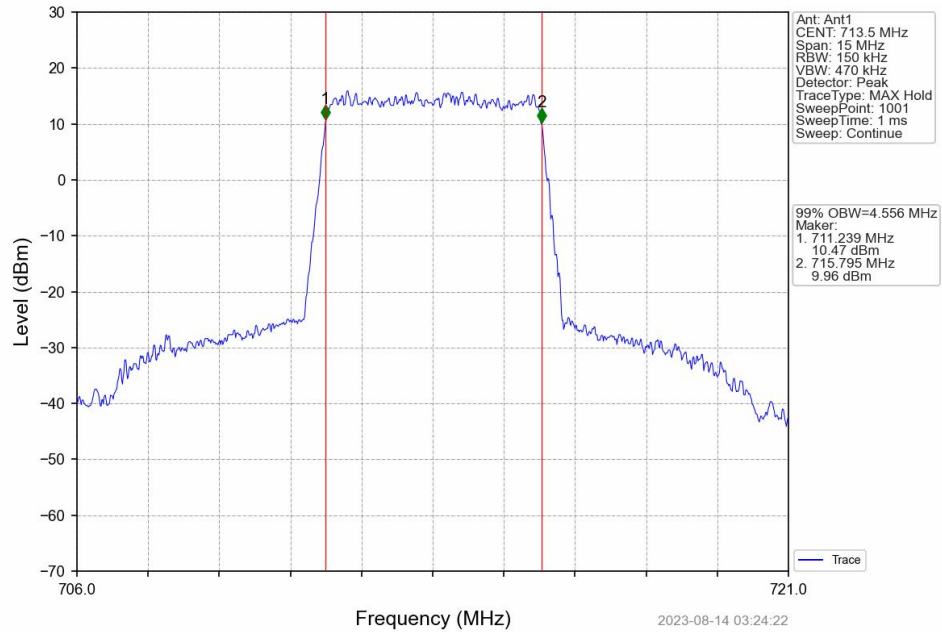
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



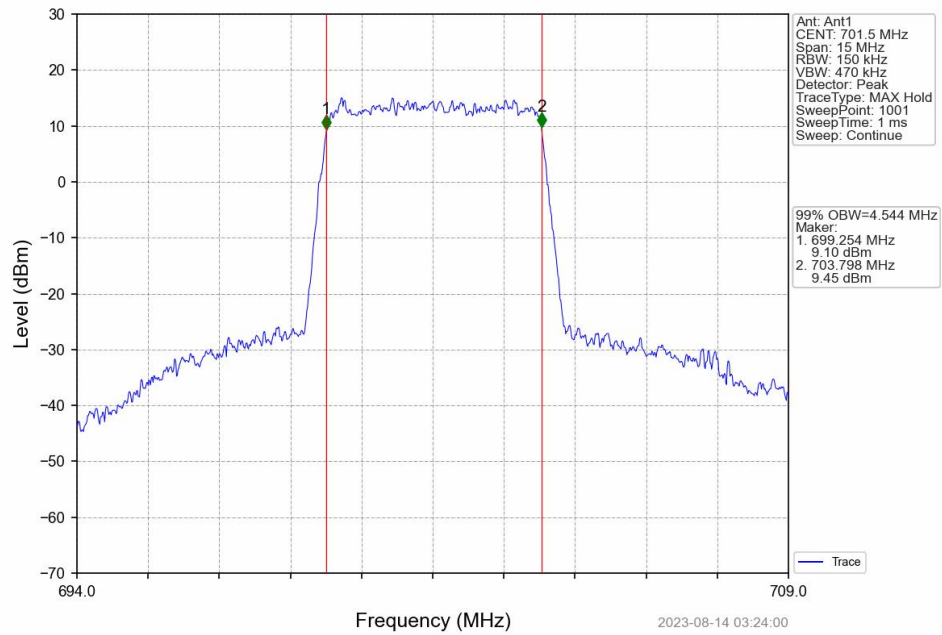
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



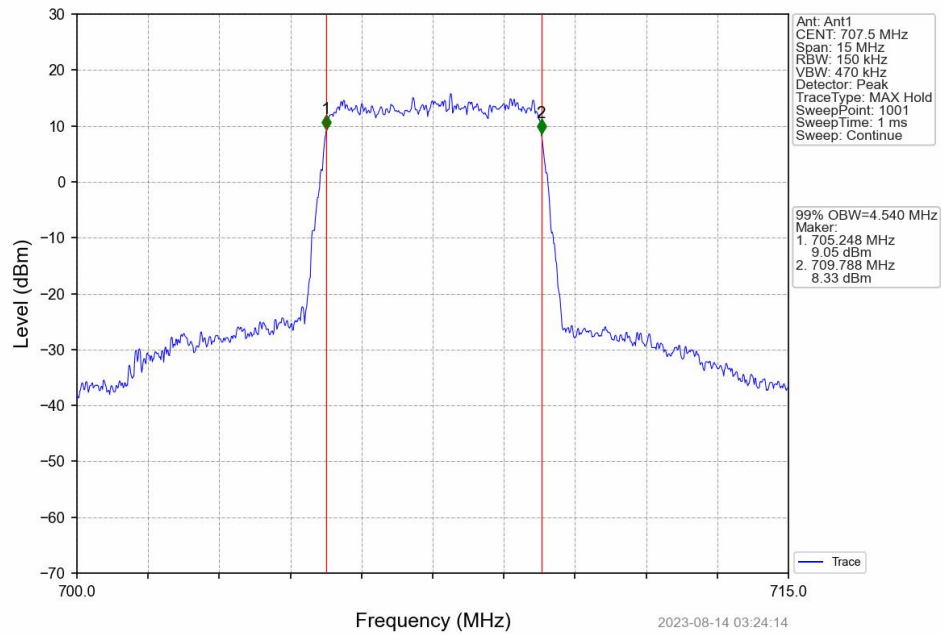
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



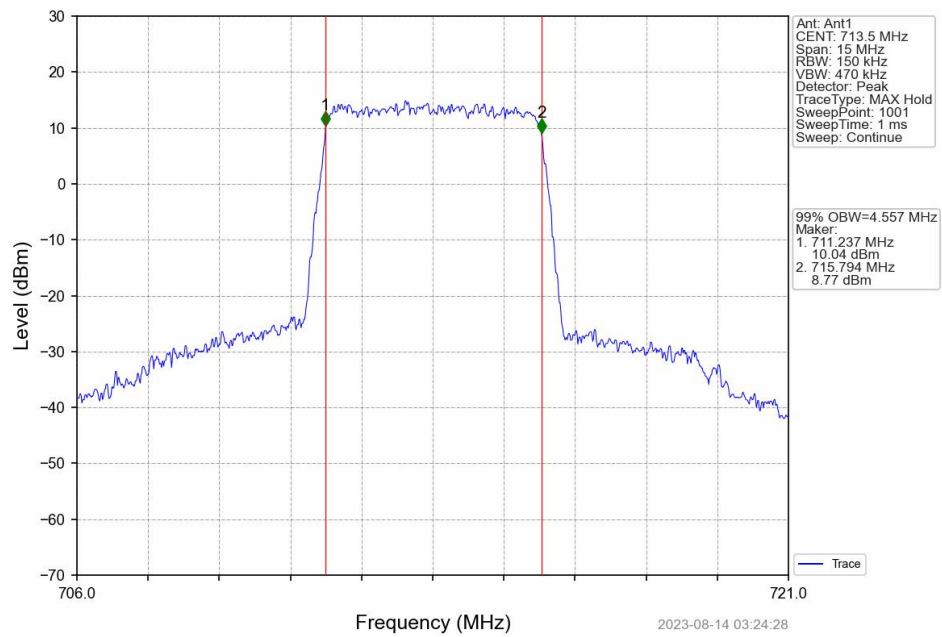
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



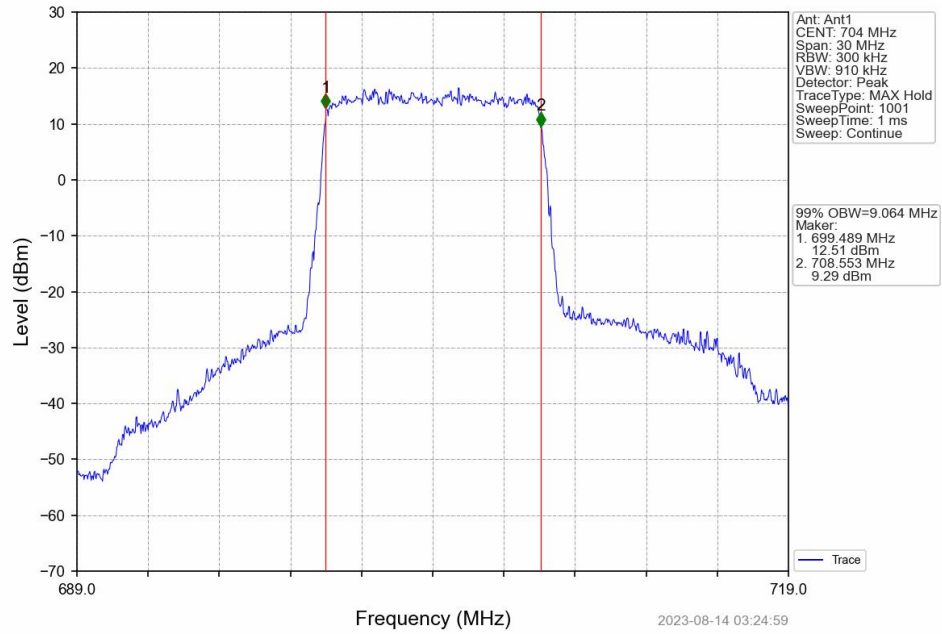
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



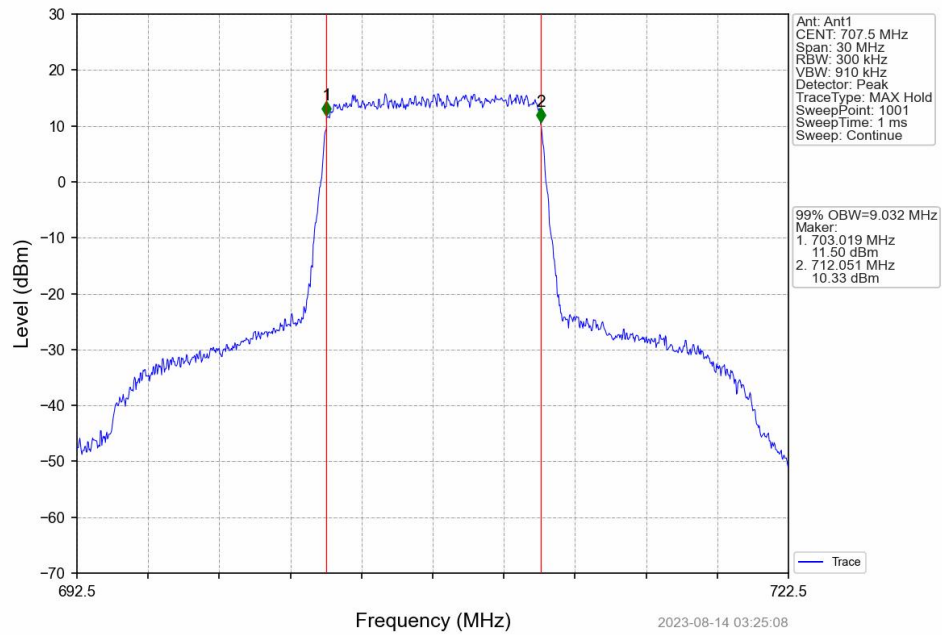
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

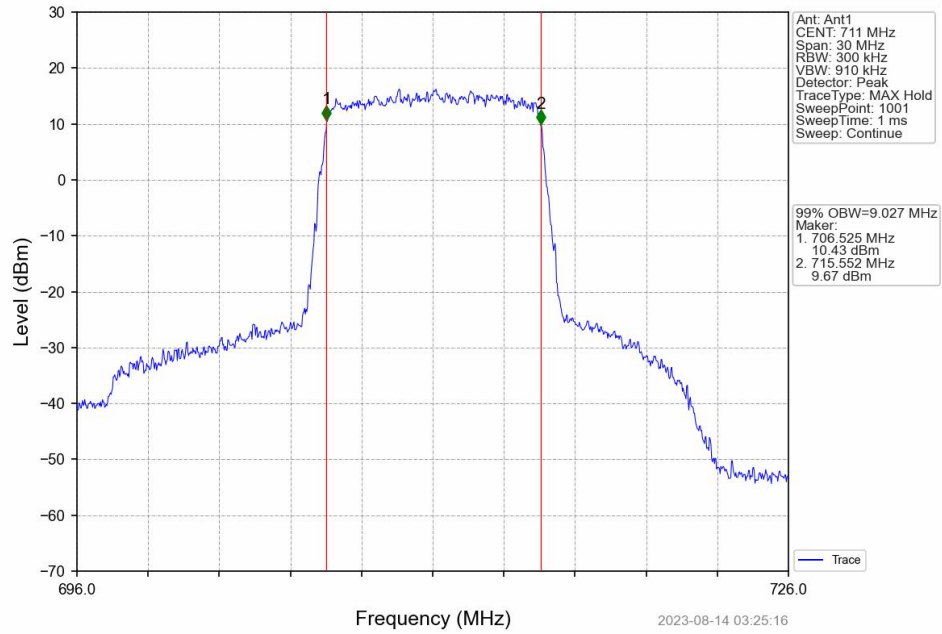


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



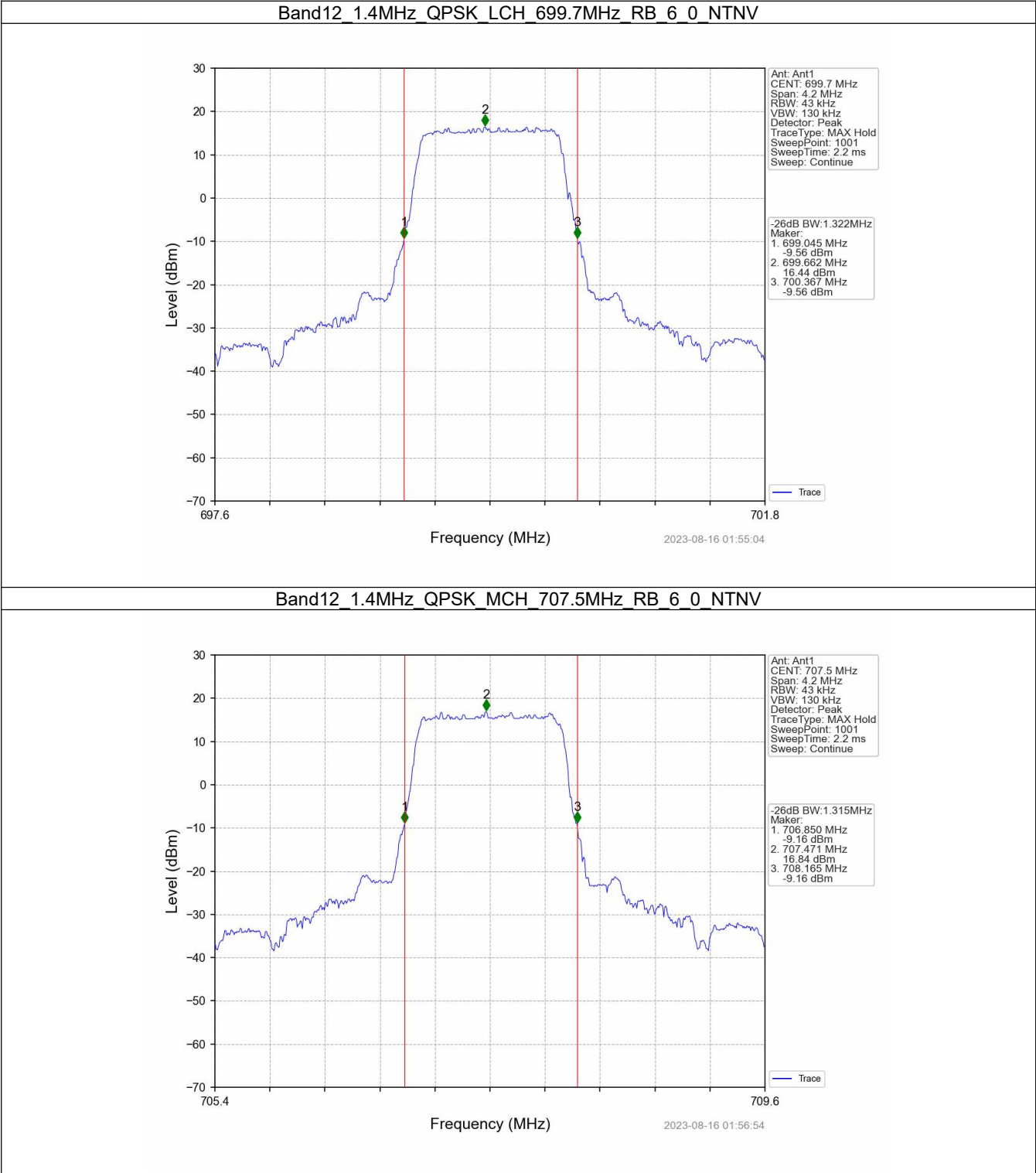


4.2 Band12_XDB

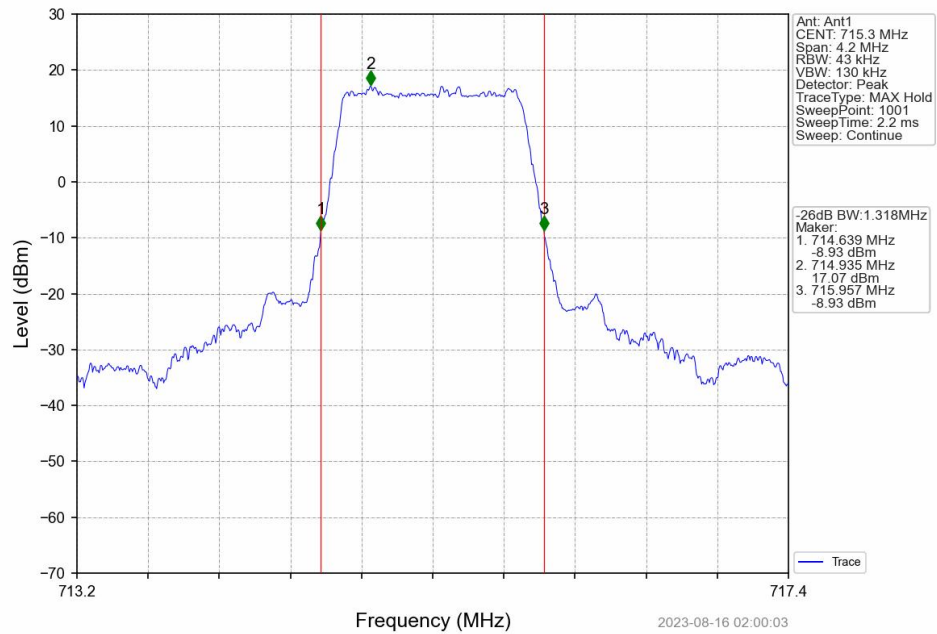
4.2.1 Test Result

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	1.315	Pass
		715.3	6	0	1.318	Pass
	16QAM	699.7	6	0	1.304	Pass
		707.5	6	0	1.320	Pass
		715.3	6	0	1.331	Pass
3	QPSK	700.5	15	0	3.062	Pass
		707.5	15	0	3.063	Pass
		714.5	15	0	3.057	Pass
	16QAM	700.5	15	0	3.047	Pass
		707.5	15	0	3.054	Pass
		714.5	15	0	3.062	Pass
5	QPSK	701.5	25	0	5.038	Pass
		707.5	25	0	5.101	Pass
		713.5	25	0	5.067	Pass
	16QAM	701.5	25	0	5.076	Pass
		707.5	25	0	5.097	Pass
		713.5	25	0	5.094	Pass
10	QPSK	704	50	0	9.963	Pass
		707.5	50	0	10.030	Pass
		711	50	0	10.032	Pass

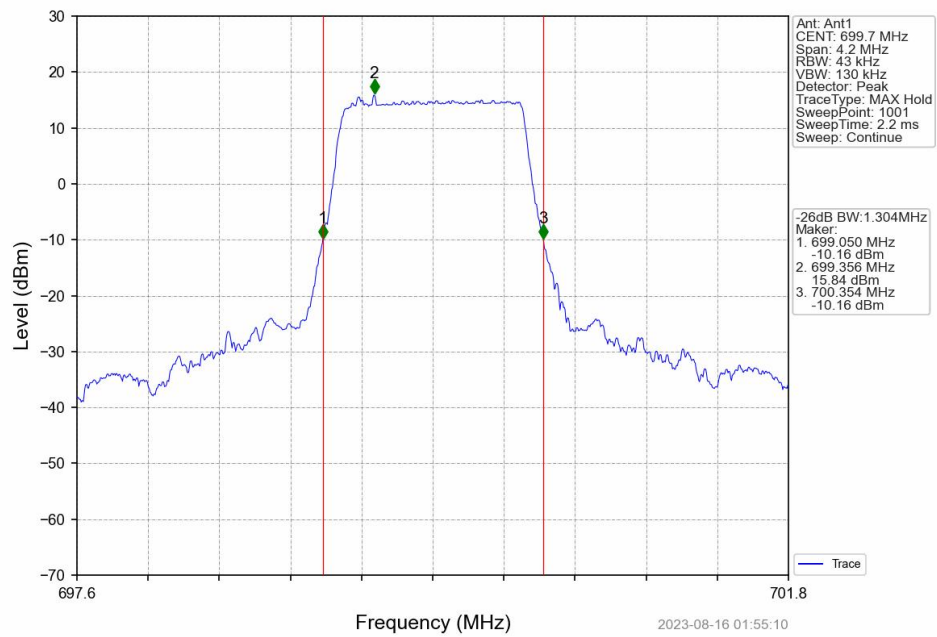
4.2.2 Test Graph



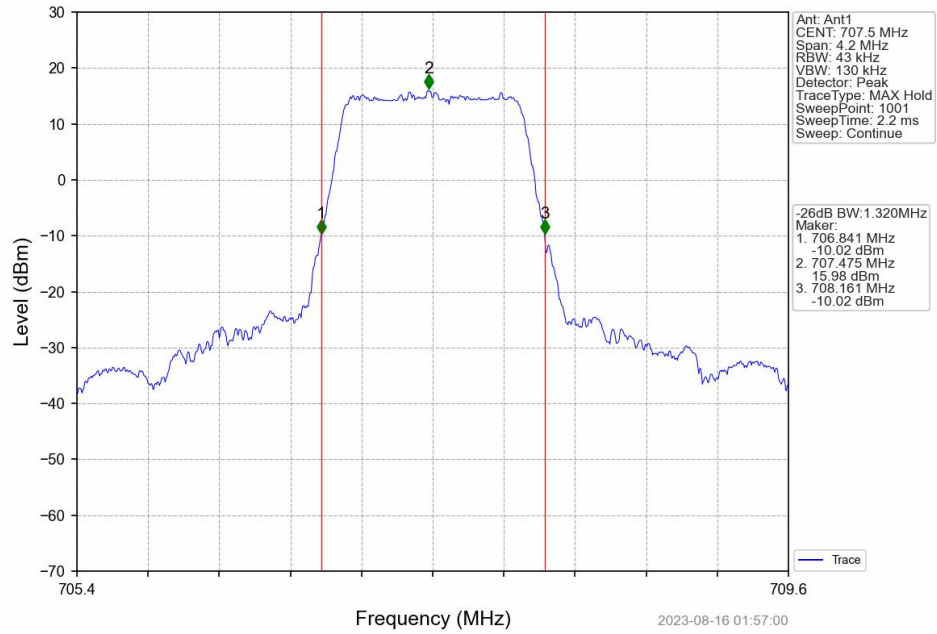
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



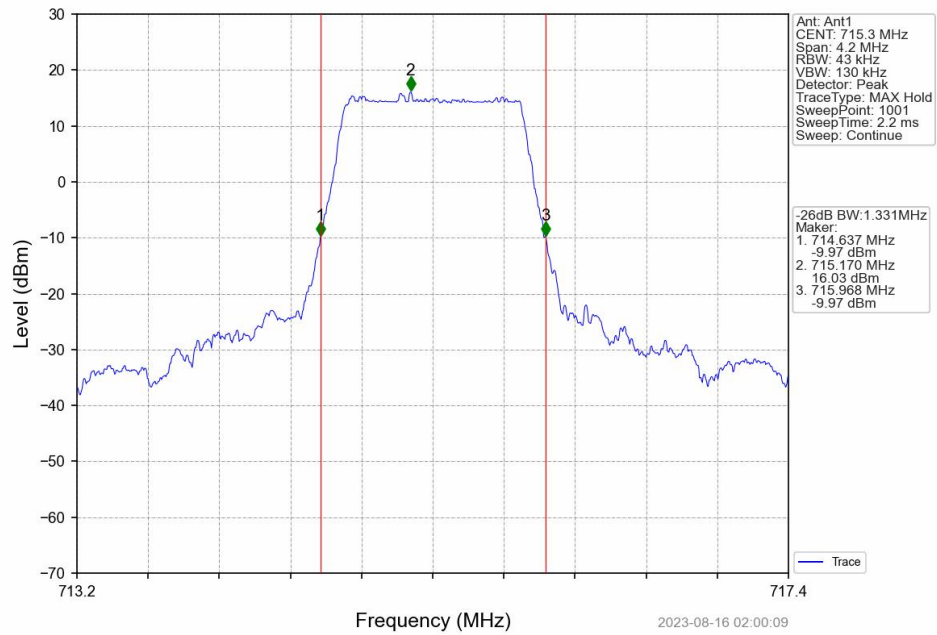
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



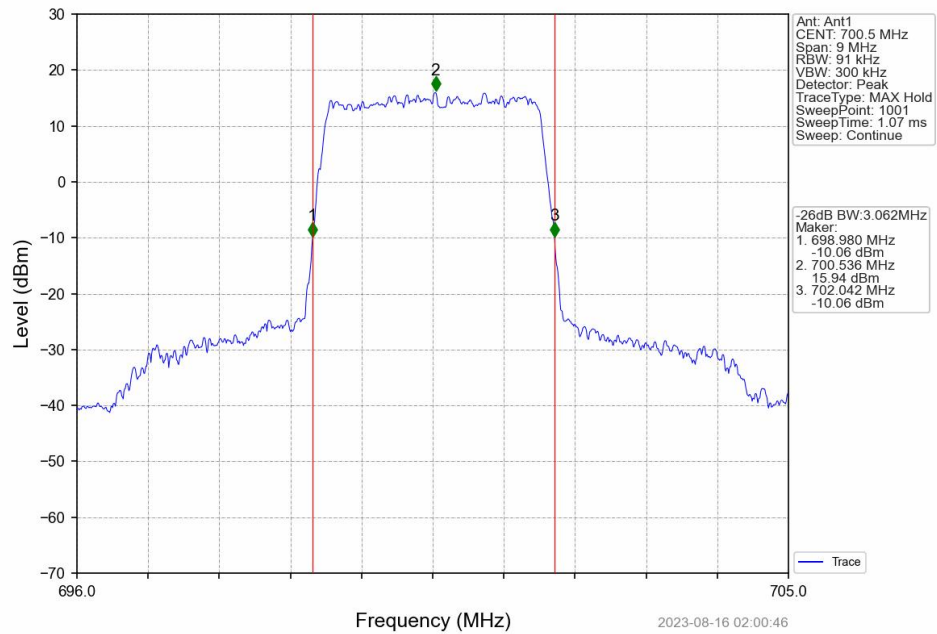
Band12 1.4MHz 16QAM MCH 707.5MHz RB_6 0 NTNV



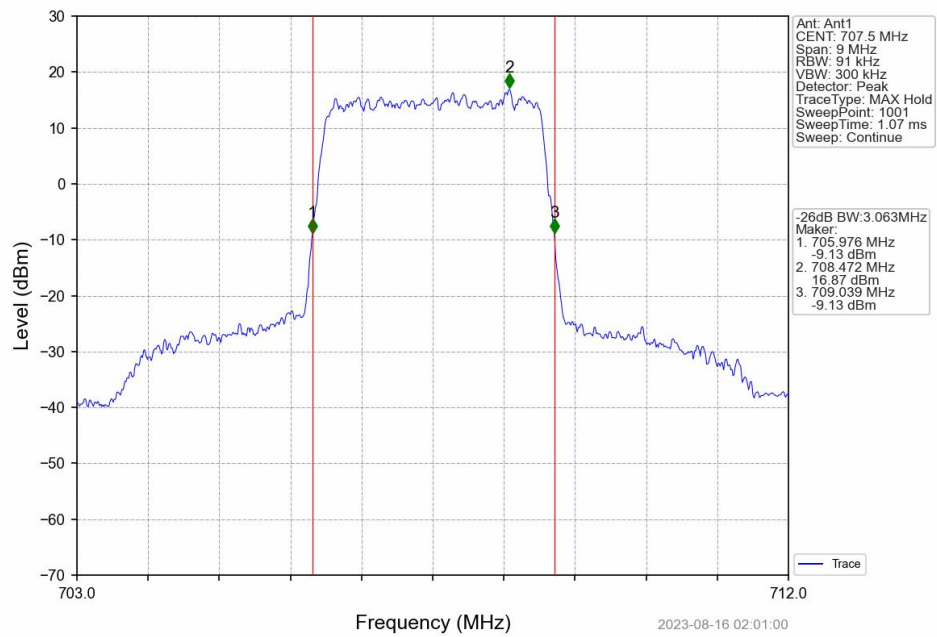
Band12 1.4MHz 16QAM HCH 715.3MHz RB_6 0 NTNV



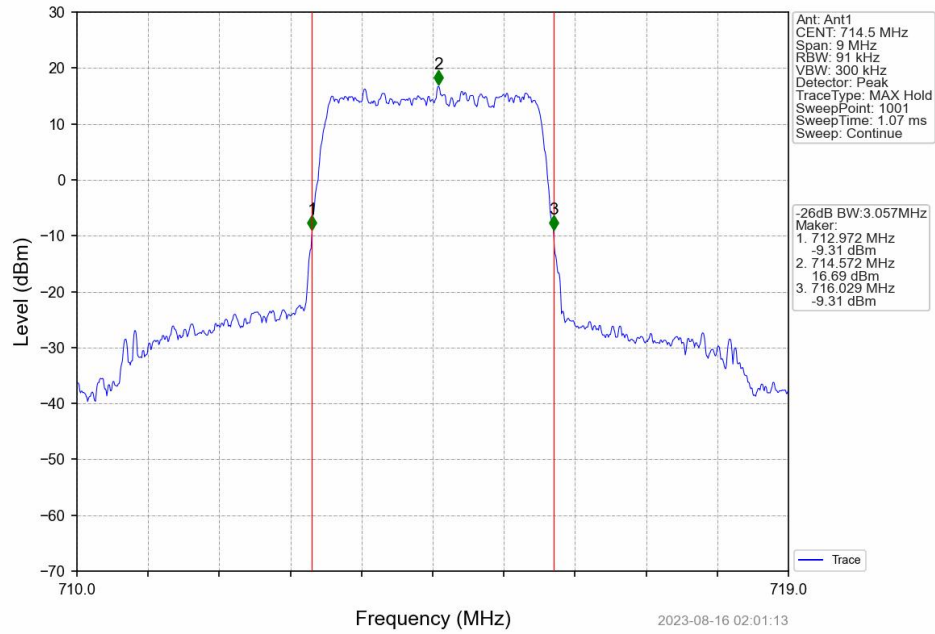
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



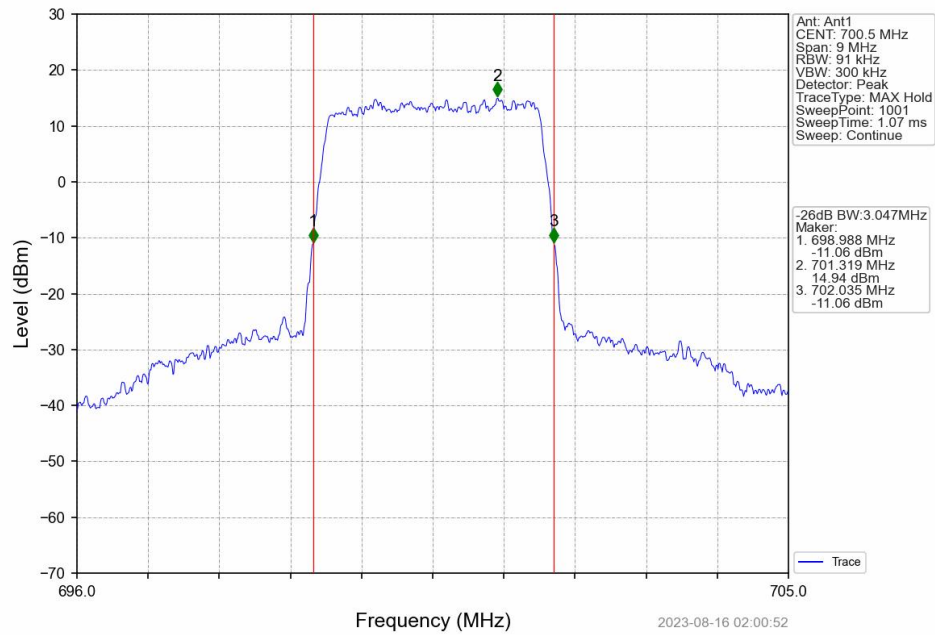
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



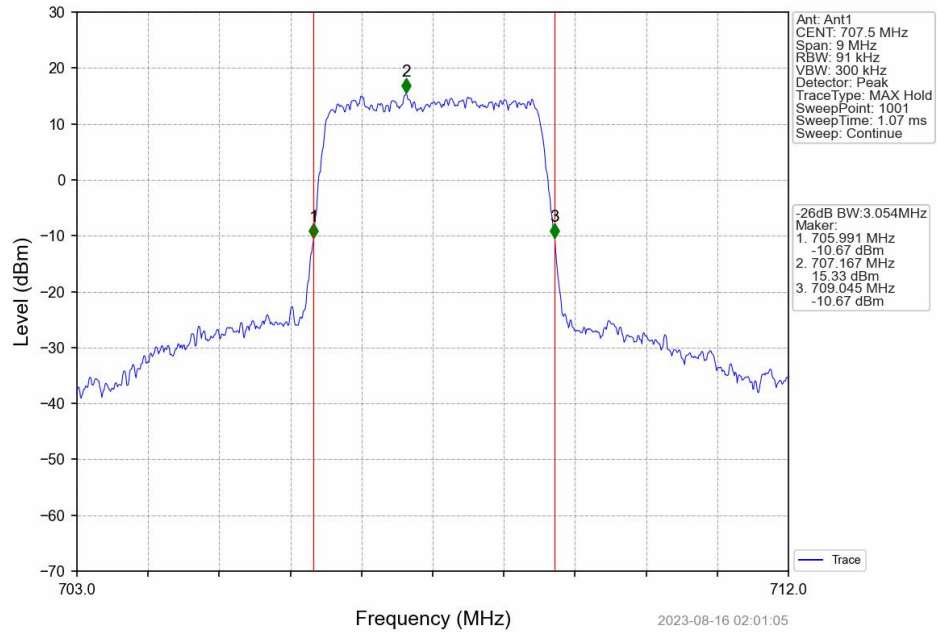
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



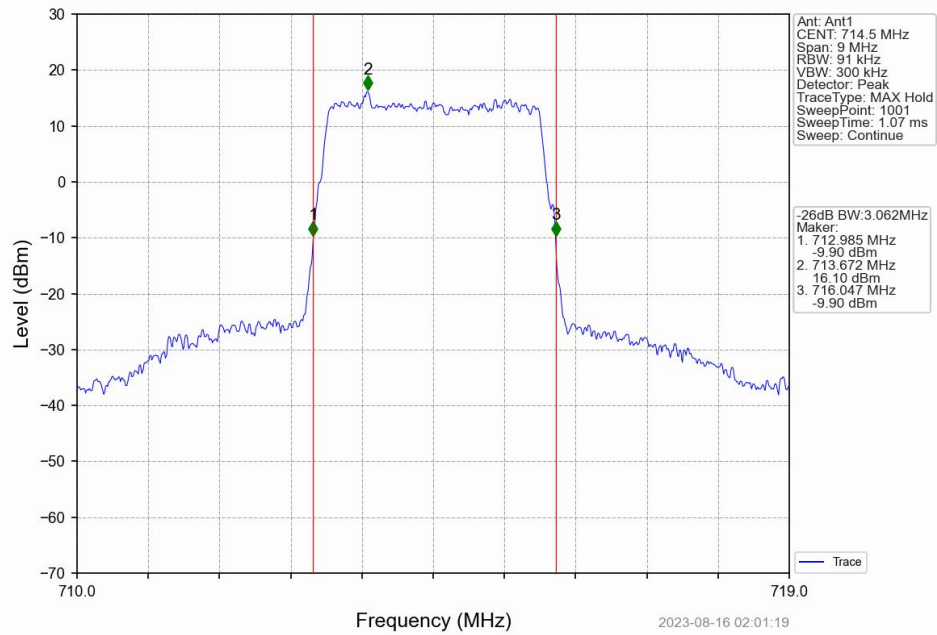
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



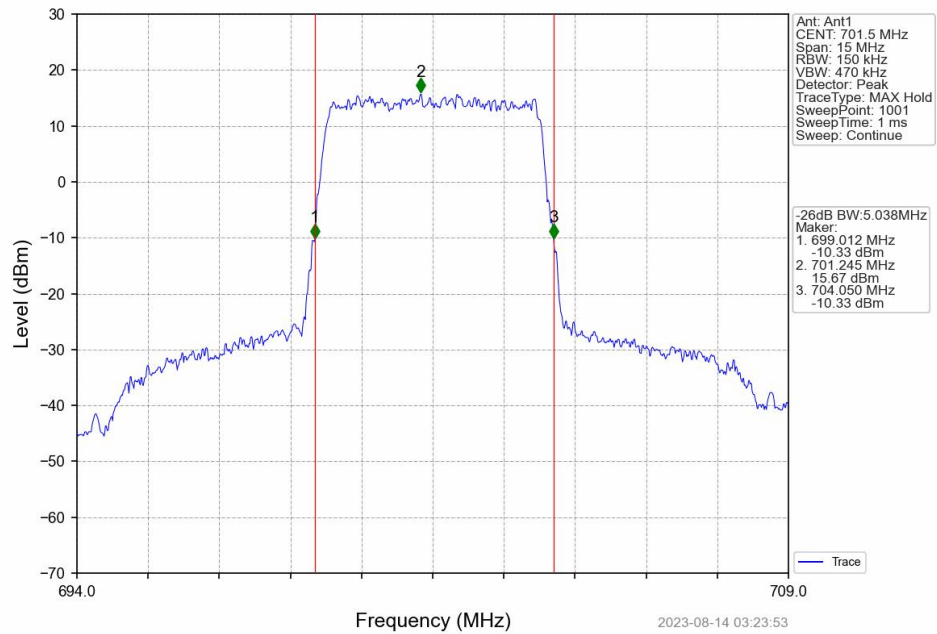
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



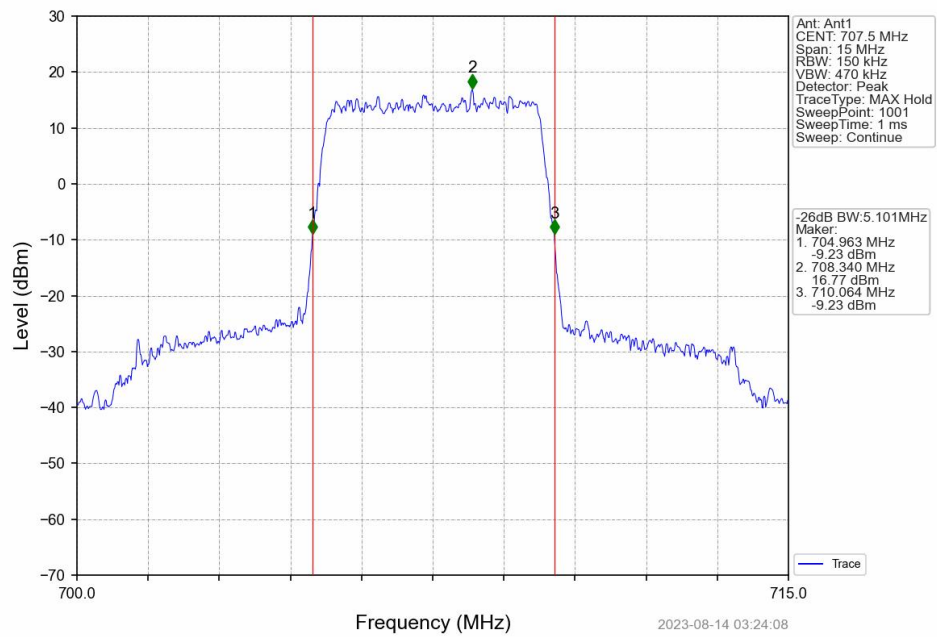
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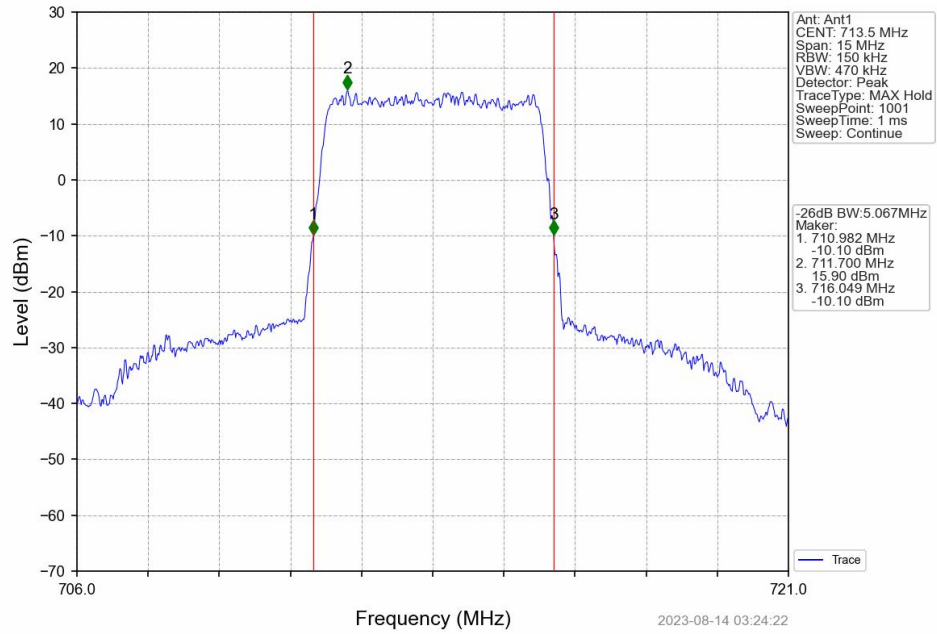
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



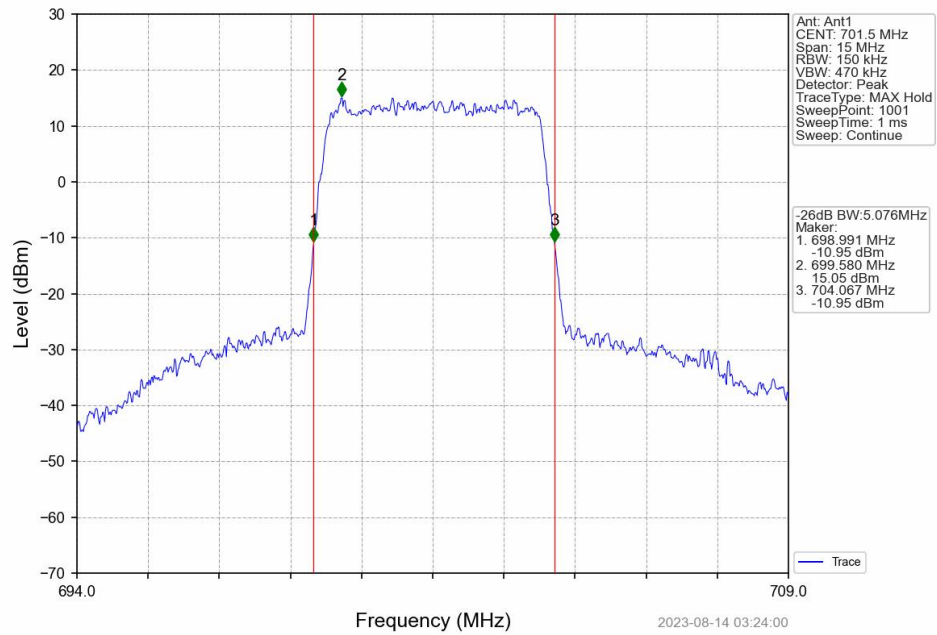
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



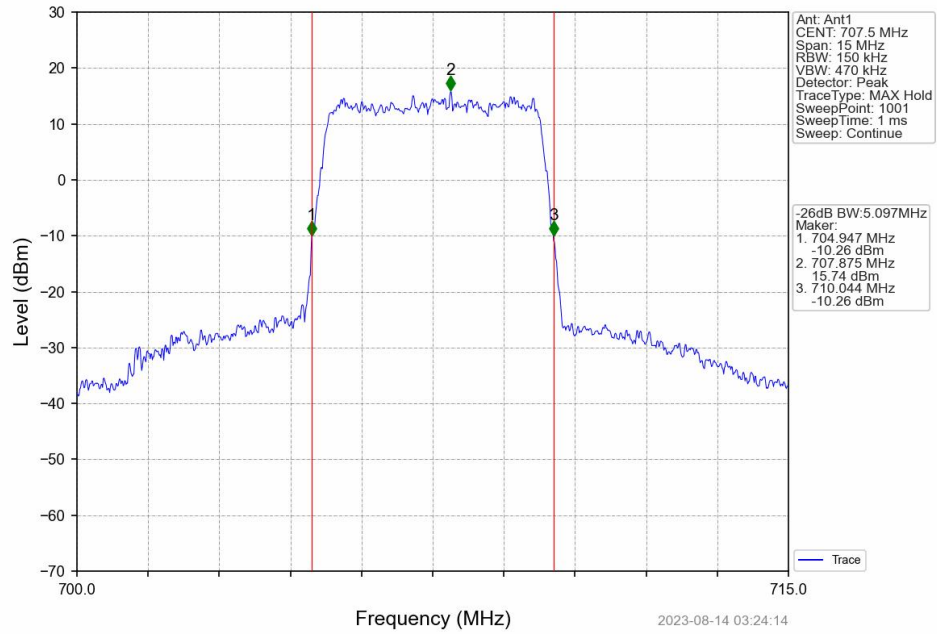
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



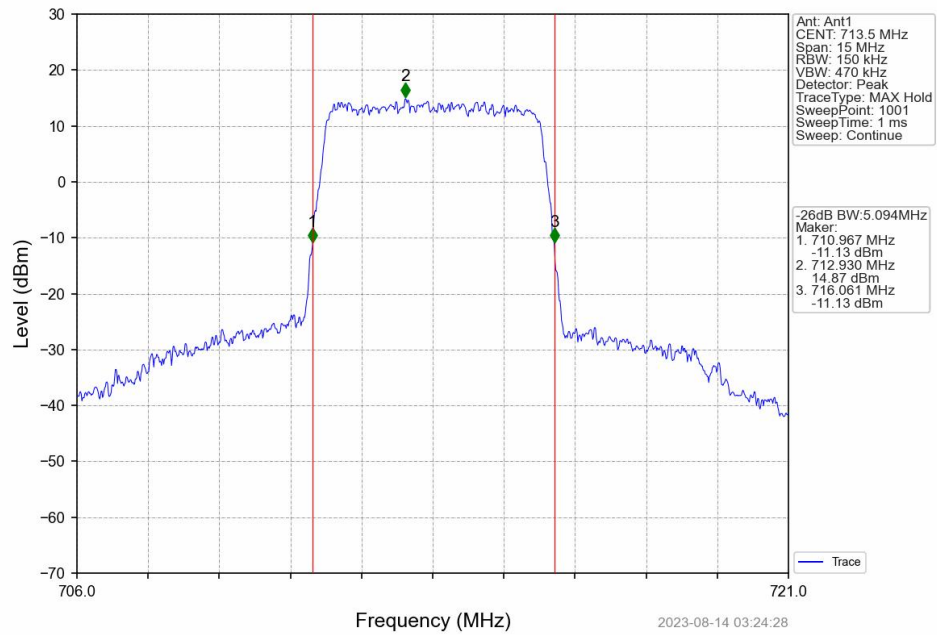
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



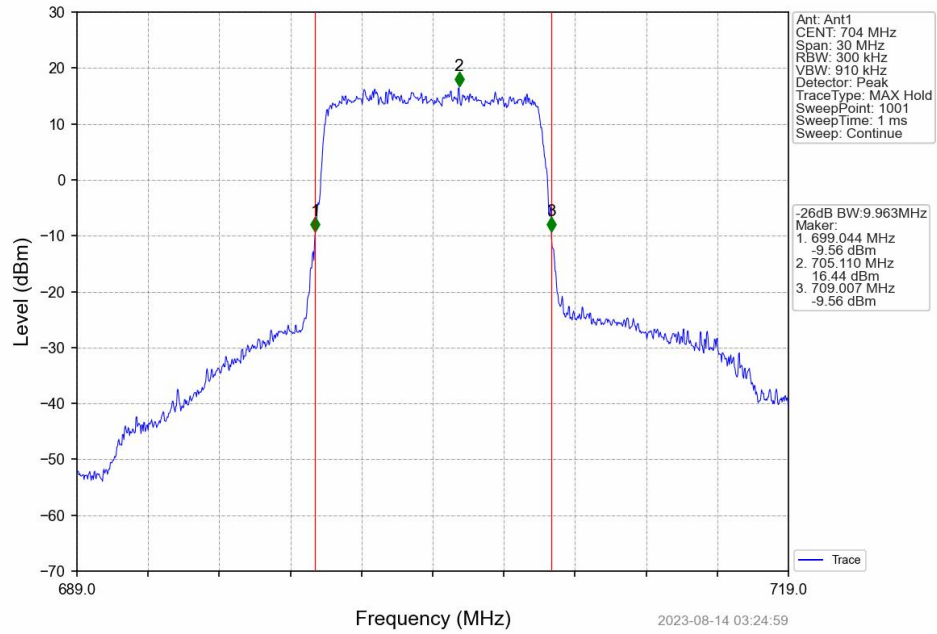
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



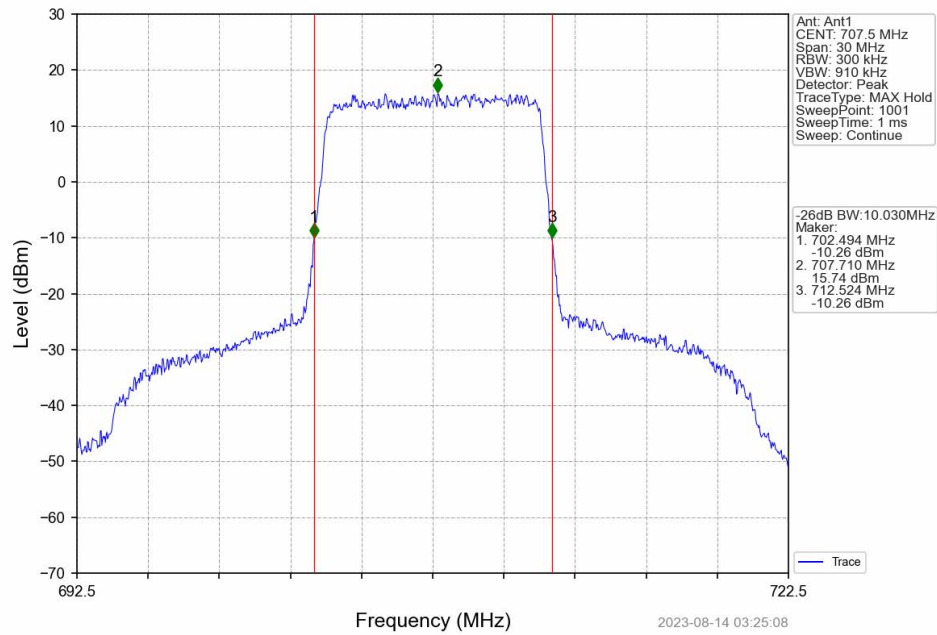
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

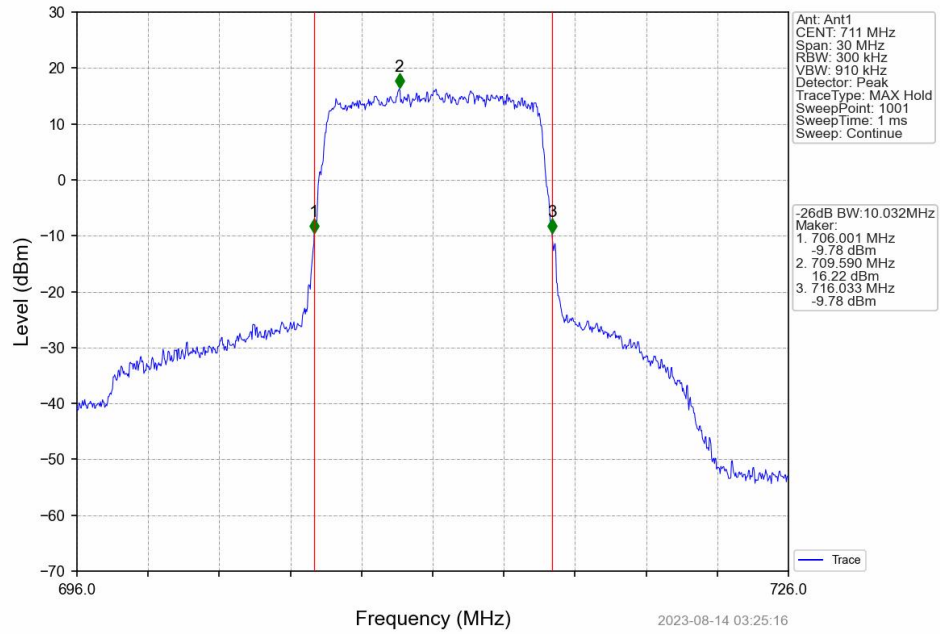


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV





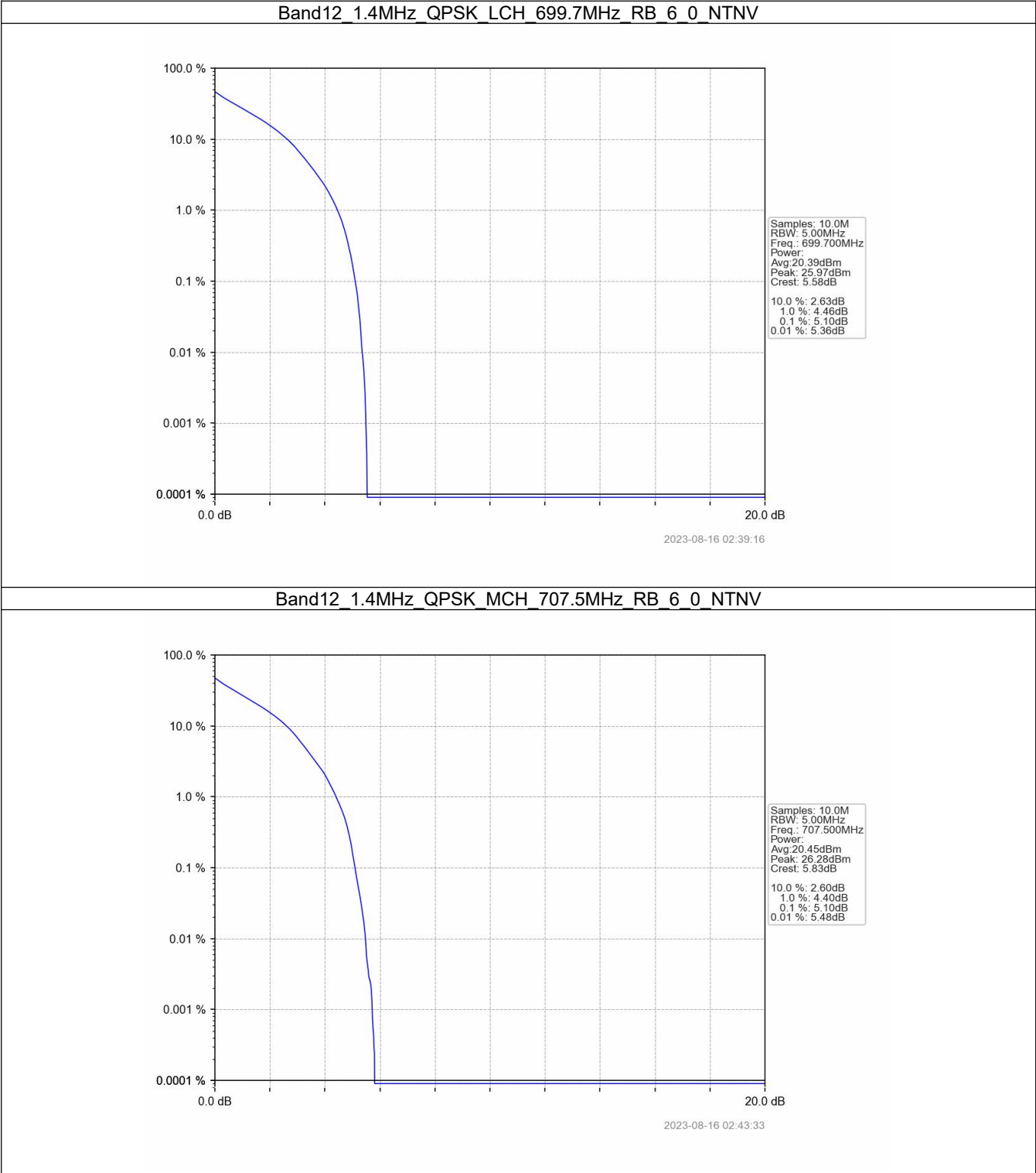
5. Peak-Average Ratio

5.1 B12_1.4MHz

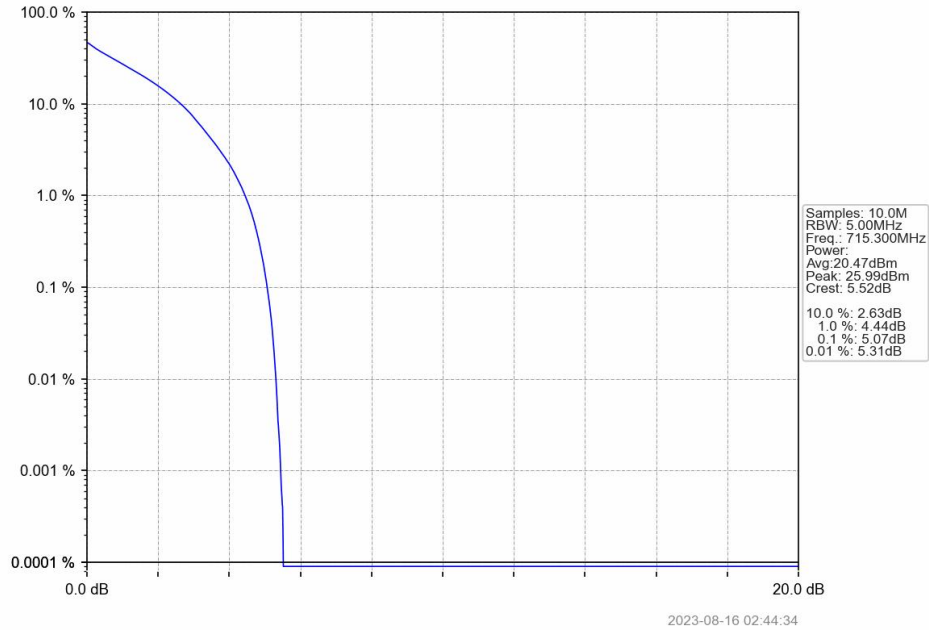
5.1.1 Test Result

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	5.10	<=13	Pass
	707.5	6	0	5.10	<=13	Pass
	715.3	6	0	5.07	<=13	Pass
16QAM	699.7	6	0	5.94	<=13	Pass
	707.5	6	0	5.96	<=13	Pass
	715.3	6	0	5.87	<=13	Pass

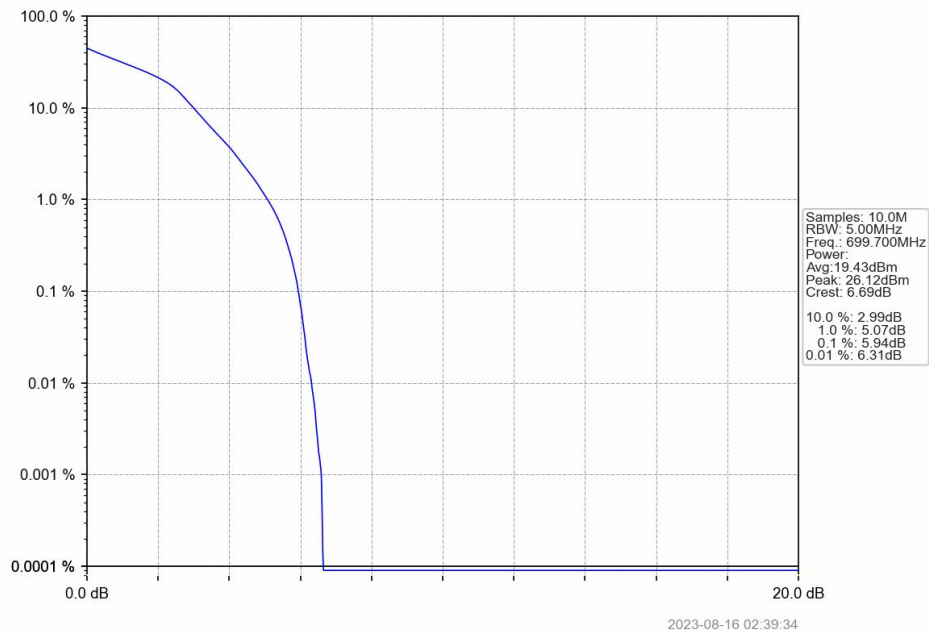
5.1.2 Test Graph



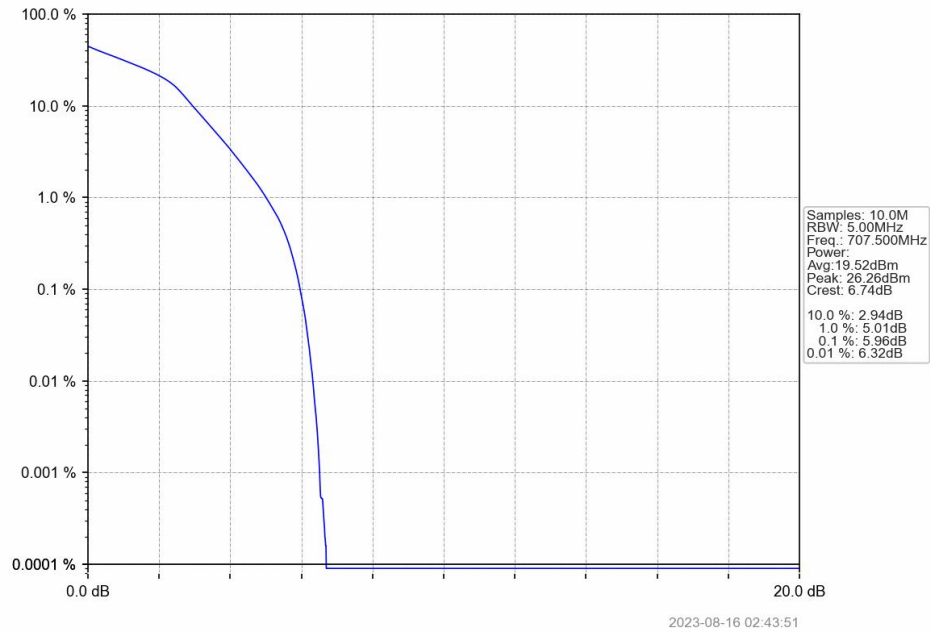
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



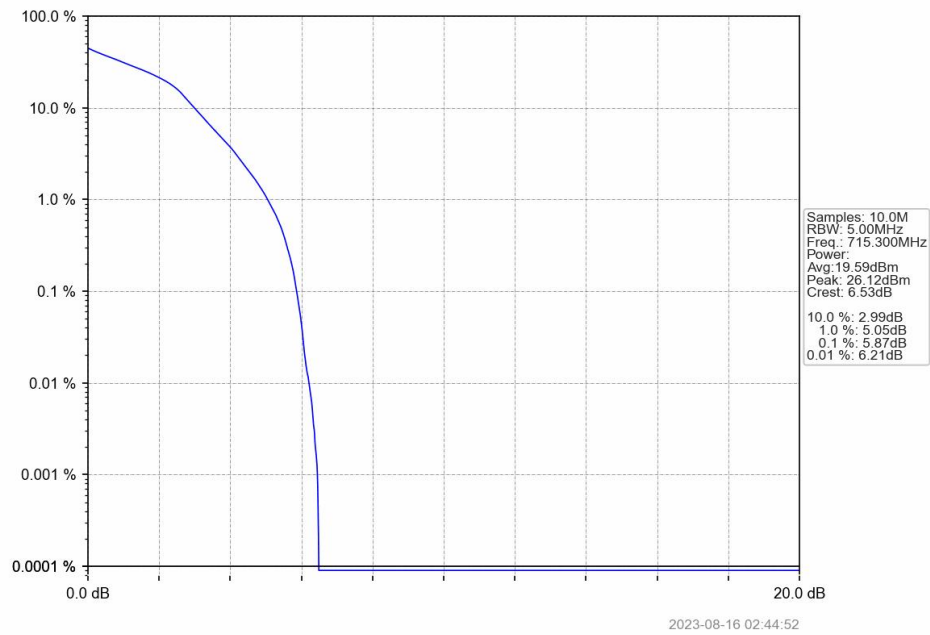
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12 1.4MHz 16QAM MCH 707.5MHz RB_6 0 NTNV



Band12 1.4MHz 16QAM HCH 715.3MHz RB_6 0 NTNV

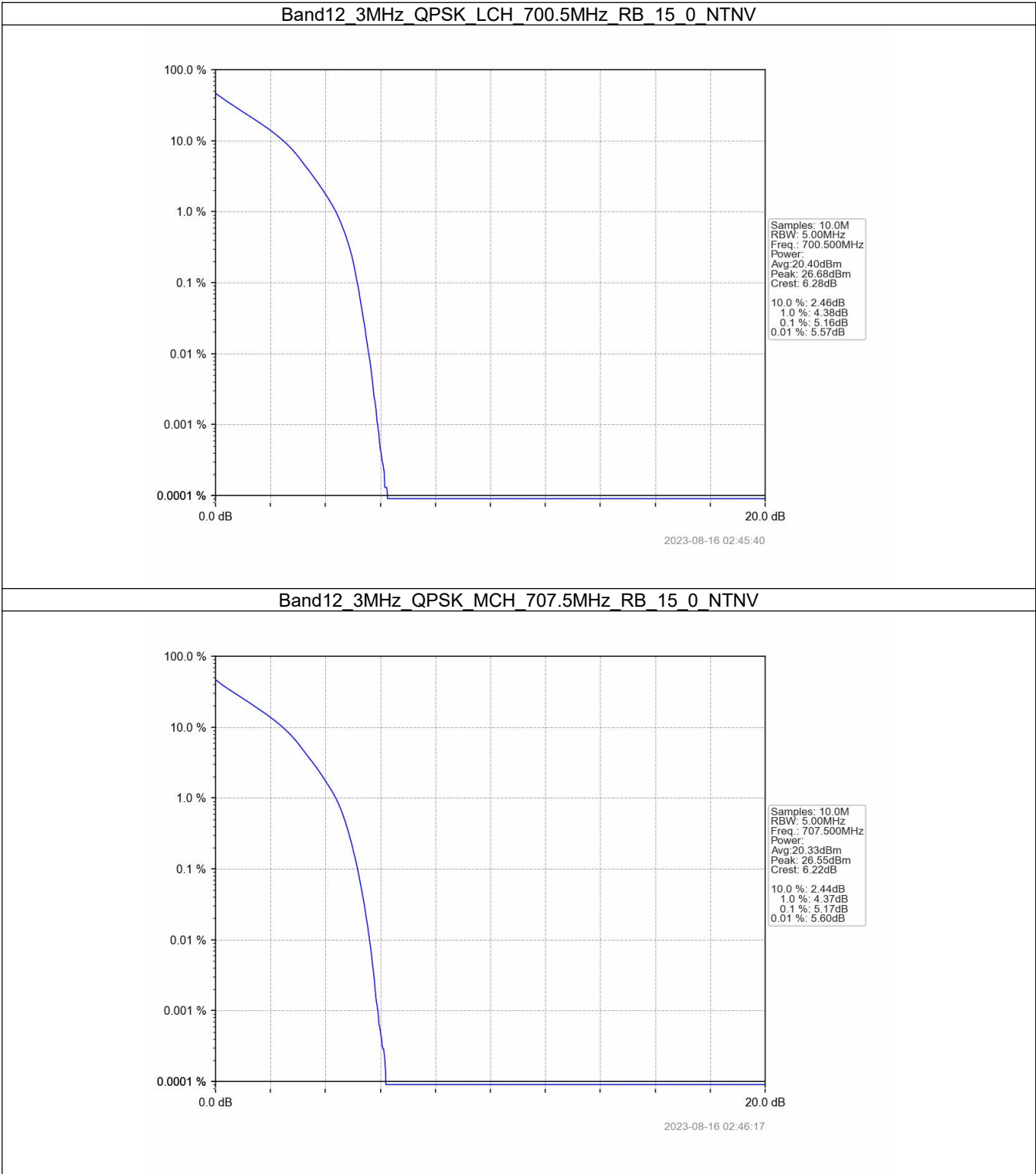


5.2 B12_3MHz

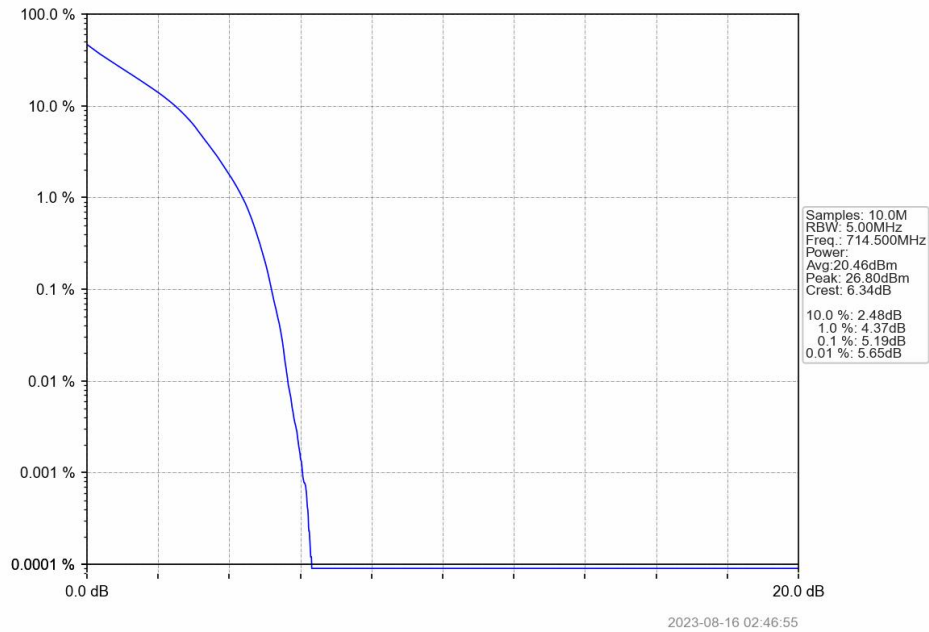
5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.16	<=13	Pass
	707.5	15	0	5.17	<=13	Pass
	714.5	15	0	5.19	<=13	Pass
16QAM	700.5	15	0	5.98	<=13	Pass
	707.5	15	0	6.00	<=13	Pass
	714.5	15	0	6.00	<=13	Pass

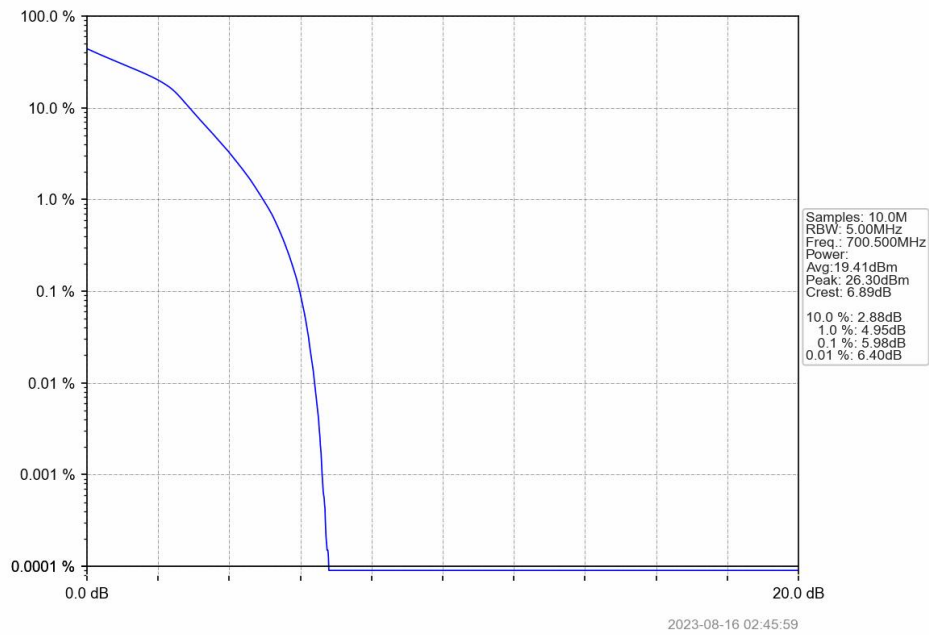
5.2.2 Test Graph



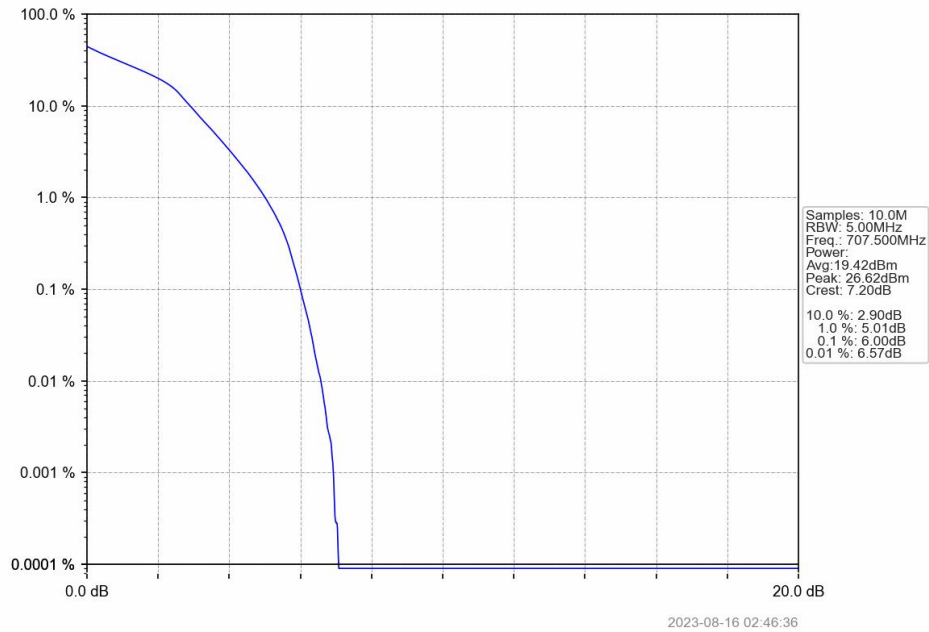
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



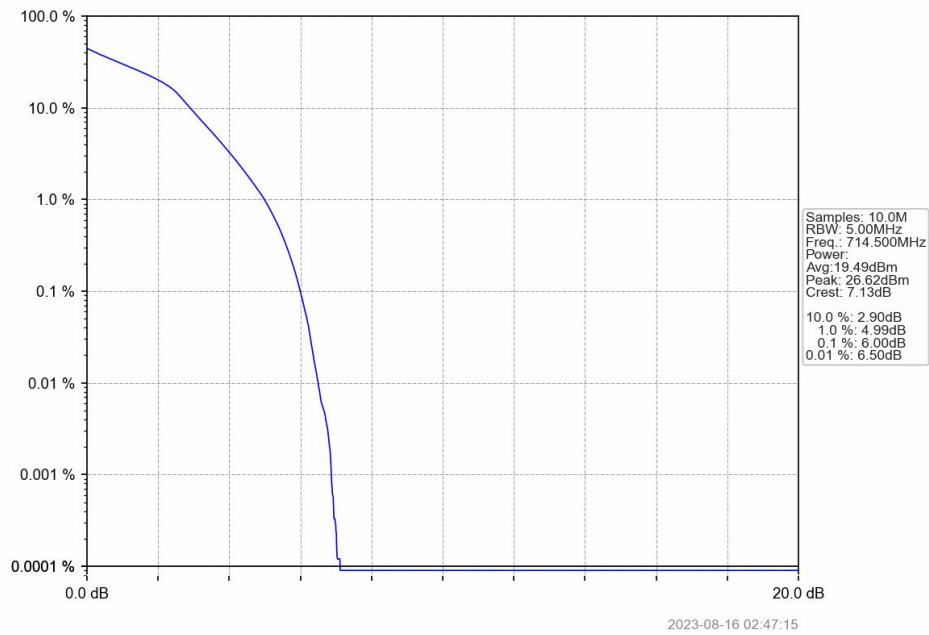
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



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



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



5.3 B12_5MHz

5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.15	<=13	Pass
	707.5	25	0	5.24	<=13	Pass
	713.5	25	0	5.18	<=13	Pass
16QAM	701.5	25	0	5.94	<=13	Pass
	707.5	25	0	5.98	<=13	Pass
	713.5	25	0	5.95	<=13	Pass

5.3.2 Test Graph

