

Appendix - LTE_band_12

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	22.07	-1.91	18.01	<=34.77	Pass
			2	22.02	-1.91	17.96	<=34.77	Pass
			5	22.08	-1.91	18.02	<=34.77	Pass
		3	0	22.00	-1.91	17.94	<=34.77	Pass
			2	21.99	-1.91	17.93	<=34.77	Pass
			3	21.93	-1.91	17.87	<=34.77	Pass
		6	0	20.94	-1.91	16.88	<=34.77	Pass
	707.5	1	0	21.93	-1.91	17.87	<=34.77	Pass
			2	22.01	-1.91	17.95	<=34.77	Pass
			5	21.94	-1.91	17.88	<=34.77	Pass
		3	0	21.90	-1.91	17.84	<=34.77	Pass
			2	21.93	-1.91	17.87	<=34.77	Pass
			3	21.91	-1.91	17.85	<=34.77	Pass
		6	0	20.92	-1.91	16.86	<=34.77	Pass
	715.3	1	0	21.81	-1.91	17.75	<=34.77	Pass
			2	21.96	-1.91	17.90	<=34.77	Pass
			5	22.01	-1.91	17.95	<=34.77	Pass
		3	0	21.95	-1.91	17.89	<=34.77	Pass
			2	22.07	-1.91	18.01	<=34.77	Pass
			3	22.04	-1.91	17.98	<=34.77	Pass
		6	0	20.91	-1.91	16.85	<=34.77	Pass
16QAM	699.7	1	0	20.99	-1.91	16.93	<=34.77	Pass
			2	20.98	-1.91	16.92	<=34.77	Pass
			5	21.00	-1.91	16.94	<=34.77	Pass
		3	0	20.70	-1.91	16.64	<=34.77	Pass
			2	20.75	-1.91	16.69	<=34.77	Pass
			3	20.68	-1.91	16.62	<=34.77	Pass
		6	0	19.99	-1.91	15.93	<=34.77	Pass
	707.5	1	0	21.49	-1.91	17.43	<=34.77	Pass
			2	21.54	-1.91	17.48	<=34.77	Pass
			5	21.59	-1.91	17.53	<=34.77	Pass
		3	0	20.82	-1.91	16.76	<=34.77	Pass
			2	20.90	-1.91	16.84	<=34.77	Pass
			3	20.95	-1.91	16.89	<=34.77	Pass
		6	0	20.50	-1.91	16.44	<=34.77	Pass
	715.3	1	0	21.57	-1.91	17.51	<=34.77	Pass
			2	21.46	-1.91	17.40	<=34.77	Pass
			5	21.49	-1.91	17.43	<=34.77	Pass
		3	0	20.93	-1.91	16.87	<=34.77	Pass
			2	20.85	-1.91	16.79	<=34.77	Pass
			3	20.78	-1.91	16.72	<=34.77	Pass
		6	0	20.19	-1.91	16.13	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	700.5	1	0	22.13	-1.91	18.07	<=34.77	Pass	
			7	22.05	-1.91	17.99	<=34.77	Pass	
			14	22.09	-1.91	18.03	<=34.77	Pass	
		8	0	20.92	-1.91	16.86	<=34.77	Pass	
			4	20.98	-1.91	16.92	<=34.77	Pass	
			7	21.33	-1.91	17.27	<=34.77	Pass	
		15	0	20.93	-1.91	16.87	<=34.77	Pass	
		707.5	1	0	21.83	-1.91	17.77	<=34.77	Pass
				7	21.86	-1.91	17.80	<=34.77	Pass
	14			21.87	-1.91	17.81	<=34.77	Pass	
	8		0	20.85	-1.91	16.79	<=34.77	Pass	
			4	20.92	-1.91	16.86	<=34.77	Pass	
			7	20.86	-1.91	16.80	<=34.77	Pass	
	15		0	20.97	-1.91	16.91	<=34.77	Pass	
	714.5		1	0	21.94	-1.91	17.88	<=34.77	Pass
				7	21.98	-1.91	17.92	<=34.77	Pass
		14		22.07	-1.91	18.01	<=34.77	Pass	
		8	0	21.00	-1.91	16.94	<=34.77	Pass	
			4	21.02	-1.91	16.96	<=34.77	Pass	
			7	20.91	-1.91	16.85	<=34.77	Pass	
		15	0	21.04	-1.91	16.98	<=34.77	Pass	
16QAM		700.5	1	0	20.98	-1.91	16.92	<=34.77	Pass
				7	20.99	-1.91	16.93	<=34.77	Pass
	14			21.39	-1.91	17.33	<=34.77	Pass	
	8		0	20.07	-1.91	16.01	<=34.77	Pass	
			4	20.06	-1.91	16.00	<=34.77	Pass	
			7	20.42	-1.91	16.36	<=34.77	Pass	
	15		0	20.03	-1.91	15.97	<=34.77	Pass	
	707.5		1	0	22.10	-1.91	18.04	<=34.77	Pass
				7	22.16	-1.91	18.10	<=34.77	Pass
		14		22.11	-1.91	18.05	<=34.77	Pass	
		8	0	20.32	-1.91	16.26	<=34.77	Pass	
			4	20.38	-1.91	16.32	<=34.77	Pass	
			7	20.29	-1.91	16.23	<=34.77	Pass	
		15	0	20.31	-1.91	16.25	<=34.77	Pass	
		714.5	1	0	21.68	-1.91	17.62	<=34.77	Pass
				7	21.65	-1.91	17.59	<=34.77	Pass
	14			21.62	-1.91	17.56	<=34.77	Pass	
	8		0	20.20	-1.91	16.14	<=34.77	Pass	
			4	20.21	-1.91	16.15	<=34.77	Pass	
			7	20.49	-1.91	16.43	<=34.77	Pass	
	15		0	20.06	-1.91	16.00	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	21.28	-1.91	17.22	<=34.77	Pass
			13	21.20	-1.91	17.14	<=34.77	Pass
			24	21.33	-1.91	17.27	<=34.77	Pass
		12	0	21.31	-1.91	17.25	<=34.77	Pass
			6	21.29	-1.91	17.23	<=34.77	Pass
			13	21.27	-1.91	17.21	<=34.77	Pass

16QAM	707.5	25	0	21.26	-1.91	17.20	<=34.77	Pass
			0	20.85	-1.91	16.79	<=34.77	Pass
		1	13	20.95	-1.91	16.89	<=34.77	Pass
			24	20.97	-1.91	16.91	<=34.77	Pass
		12	0	20.95	-1.91	16.89	<=34.77	Pass
			6	20.91	-1.91	16.85	<=34.77	Pass
			13	20.95	-1.91	16.89	<=34.77	Pass
		25	0	20.96	-1.91	16.90	<=34.77	Pass
	713.5	1	0	20.92	-1.91	16.86	<=34.77	Pass
			13	20.86	-1.91	16.80	<=34.77	Pass
			24	20.87	-1.91	16.81	<=34.77	Pass
		12	0	20.91	-1.91	16.85	<=34.77	Pass
			6	20.91	-1.91	16.85	<=34.77	Pass
			13	20.92	-1.91	16.86	<=34.77	Pass
		25	0	20.91	-1.91	16.85	<=34.77	Pass
	701.5	1	0	21.25	-1.91	17.19	<=34.77	Pass
			13	21.25	-1.91	17.19	<=34.77	Pass
			24	21.24	-1.91	17.18	<=34.77	Pass
		12	0	21.24	-1.91	17.18	<=34.77	Pass
			6	21.23	-1.91	17.17	<=34.77	Pass
			13	21.23	-1.91	17.17	<=34.77	Pass
		25	0	21.23	-1.91	17.17	<=34.77	Pass
		1	0	20.95	-1.91	16.89	<=34.77	Pass
			13	20.93	-1.91	16.87	<=34.77	Pass
			24	20.92	-1.91	16.86	<=34.77	Pass
		12	0	20.91	-1.91	16.85	<=34.77	Pass
			6	20.91	-1.91	16.85	<=34.77	Pass
			13	20.93	-1.91	16.87	<=34.77	Pass
		25	0	20.91	-1.91	16.85	<=34.77	Pass
		1	0	20.90	-1.91	16.84	<=34.77	Pass
			13	20.92	-1.91	16.86	<=34.77	Pass
			24	20.91	-1.91	16.85	<=34.77	Pass
		12	0	20.93	-1.91	16.87	<=34.77	Pass
			6	20.92	-1.91	16.86	<=34.77	Pass
			13	20.89	-1.91	16.83	<=34.77	Pass
		25	0	20.93	-1.91	16.87	<=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	21.75	-1.91	17.69	<=34.77	Pass
			25	21.83	-1.91	17.77	<=34.77	Pass
			49	21.86	-1.91	17.80	<=34.77	Pass
		25	0	21.33	-1.91	17.27	<=34.77	Pass
			13	20.95	-1.91	16.89	<=34.77	Pass
			25	20.90	-1.91	16.84	<=34.77	Pass
		50	0	20.90	-1.91	16.84	<=34.77	Pass
	707.5	1	0	21.86	-1.91	17.80	<=34.77	Pass
			25	21.96	-1.91	17.90	<=34.77	Pass
			49	21.96	-1.91	17.90	<=34.77	Pass
		25	0	20.94	-1.91	16.88	<=34.77	Pass
			13	20.98	-1.91	16.92	<=34.77	Pass
			25	20.88	-1.91	16.82	<=34.77	Pass
		50	0	20.93	-1.91	16.87	<=34.77	Pass
	711	1	0	21.97	-1.91	17.91	<=34.77	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 3 of 121

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

<http://www.btf-lab.com>

Version: 1/00

16QAM		25	25	21.97	-1.91	17.91	<=34.77	Pass
			49	22.05	-1.91	17.99	<=34.77	Pass
			0	20.87	-1.91	16.81	<=34.77	Pass
			13	20.92	-1.91	16.86	<=34.77	Pass
			25	20.98	-1.91	16.92	<=34.77	Pass
	50	0	20.99	-1.91	16.93	<=34.77	Pass	
			21.69	-1.91	17.63	<=34.77	Pass	
			21.71	-1.91	17.65	<=34.77	Pass	
			21.67	-1.91	17.61	<=34.77	Pass	
			20.26	-1.91	16.20	<=34.77	Pass	
	704	1	20.31	-1.91	16.25	<=34.77	Pass	
			20.30	-1.91	16.24	<=34.77	Pass	
			20.32	-1.91	16.26	<=34.77	Pass	
			21.28	-1.91	17.22	<=34.77	Pass	
			21.08	-1.91	17.02	<=34.77	Pass	
	707.5	1	21.21	-1.91	17.15	<=34.77	Pass	
			20.45	-1.91	16.39	<=34.77	Pass	
			20.39	-1.91	16.33	<=34.77	Pass	
			20.01	-1.91	15.95	<=34.77	Pass	
			20.29	-1.91	16.23	<=34.77	Pass	
	711	1	22.01	-1.91	17.95	<=34.77	Pass	
			22.09	-1.91	18.03	<=34.77	Pass	
			22.13	-1.91	18.07	<=34.77	Pass	
			20.27	-1.91	16.21	<=34.77	Pass	
			19.91	-1.91	15.85	<=34.77	Pass	
		25	19.97	-1.91	15.91	<=34.77	Pass	
			19.92	-1.91	15.86	<=34.77	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	-0.486	-0.0007	-2.5 to 2.5	Pass
					3.85	-13.418	-0.0192	-2.5 to 2.5	Pass
					4.43	-20.399	-0.0292	-2.5 to 2.5	Pass
				-30	3.85	-27.151	-0.0388	-2.5 to 2.5	Pass
				-20	3.85	-30.313	-0.0433	-2.5 to 2.5	Pass
				-10	3.85	-34.575	-0.0494	-2.5 to 2.5	Pass
				0	3.85	-38.595	-0.0552	-2.5 to 2.5	Pass
				10	3.85	-43.058	-0.0615	-2.5 to 2.5	Pass
				30	3.85	-44.603	-0.0637	-2.5 to 2.5	Pass
				40	3.85	8.655	0.0124	-2.5 to 2.5	Pass
				50	3.85	5.779	0.0083	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	1.230	0.0017	-2.5 to 2.5	Pass
					3.85	-6.309	-0.0089	-2.5 to 2.5	Pass
					4.43	-11.001	-0.0155	-2.5 to 2.5	Pass
				-30	3.85	-12.674	-0.0179	-2.5 to 2.5	Pass
				-20	3.85	-15.063	-0.0213	-2.5 to 2.5	Pass
				-10	3.85	-15.764	-0.0223	-2.5 to 2.5	Pass
				0	3.85	-18.725	-0.0265	-2.5 to 2.5	Pass

	715.3	6	0	10	3.85	-20.156	-0.0285	-2.5 to 2.5	Pass
				30	3.85	-19.670	-0.0278	-2.5 to 2.5	Pass
				40	3.85	-21.415	-0.0303	-2.5 to 2.5	Pass
				50	3.85	-22.573	-0.0319	-2.5 to 2.5	Pass
				20	3.27	1.674	0.0023	-2.5 to 2.5	Pass
					3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
					4.43	-1.359	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	0.601	0.0008	-2.5 to 2.5	Pass
				-20	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-2.489	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-4.106	-0.0057	-2.5 to 2.5	Pass
				30	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.359	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	4.406	0.0063	-2.5 to 2.5	Pass
					3.85	5.765	0.0082	-2.5 to 2.5	Pass
					4.43	4.435	0.0063	-2.5 to 2.5	Pass
				-30	3.85	6.566	0.0094	-2.5 to 2.5	Pass
				-20	3.85	5.550	0.0079	-2.5 to 2.5	Pass
				-10	3.85	5.422	0.0077	-2.5 to 2.5	Pass
				0	3.85	5.937	0.0085	-2.5 to 2.5	Pass
				10	3.85	5.894	0.0084	-2.5 to 2.5	Pass
				30	3.85	6.480	0.0093	-2.5 to 2.5	Pass
				40	3.85	5.136	0.0073	-2.5 to 2.5	Pass
				50	3.85	4.334	0.0062	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-19.712	-0.0279	-2.5 to 2.5	Pass
					3.85	-21.243	-0.0300	-2.5 to 2.5	Pass
					4.43	-22.516	-0.0318	-2.5 to 2.5	Pass
				-30	3.85	-24.805	-0.0351	-2.5 to 2.5	Pass
				-20	3.85	-21.858	-0.0309	-2.5 to 2.5	Pass
				-10	3.85	-25.878	-0.0366	-2.5 to 2.5	Pass
				0	3.85	-25.034	-0.0354	-2.5 to 2.5	Pass
				10	3.85	-25.635	-0.0362	-2.5 to 2.5	Pass
				30	3.85	-25.864	-0.0366	-2.5 to 2.5	Pass
				40	3.85	-24.590	-0.0348	-2.5 to 2.5	Pass
				50	3.85	-25.649	-0.0363	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-1.273	-0.0018	-2.5 to 2.5	Pass
					3.85	-3.119	-0.0044	-2.5 to 2.5	Pass
					4.43	-1.888	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-3.047	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-3.262	-0.0046	-2.5 to 2.5	Pass
				-10	3.85	-2.704	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-3.276	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-2.575	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-2.389	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-2.031	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-2.990	-0.0042	-2.5 to 2.5	Pass

2.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	0.186	0.0003	-2.5 to 2.5	Pass
					3.85	-15.364	-0.0219	-2.5 to 2.5	Pass
					4.43	-27.909	-0.0398	-2.5 to 2.5	Pass
				-30	3.85	-36.964	-0.0528	-2.5 to 2.5	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 5 of 121

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

<http://www.btf-lab.com>

Version: 1/00

16QAM	707.5	15	0	-20	3.85	-43.001	-0.0614	-2.5 to 2.5	Pass
				-10	3.85	-47.965	-0.0685	-2.5 to 2.5	Pass
				0	3.85	-3.161	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-3.448	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-4.191	-0.0060	-2.5 to 2.5	Pass
				40	3.85	-6.208	-0.0089	-2.5 to 2.5	Pass
				50	3.85	-4.807	-0.0069	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.701	-0.0010	-2.5 to 2.5	Pass
					3.85	-5.364	-0.0076	-2.5 to 2.5	Pass
					4.43	-6.509	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-5.937	-0.0084	-2.5 to 2.5	Pass
				-20	3.85	-7.882	-0.0111	-2.5 to 2.5	Pass
				-10	3.85	-7.696	-0.0109	-2.5 to 2.5	Pass
				0	3.85	-7.668	-0.0108	-2.5 to 2.5	Pass
				10	3.85	-8.283	-0.0117	-2.5 to 2.5	Pass
				30	3.85	-7.353	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-5.493	-0.0078	-2.5 to 2.5	Pass
				50	3.85	-6.294	-0.0089	-2.5 to 2.5	Pass
				20	3.27	4.063	0.0057	-2.5 to 2.5	Pass
					3.85	-1.817	-0.0025	-2.5 to 2.5	Pass
					4.43	-0.386	-0.0005	-2.5 to 2.5	Pass
	700.5	15	0	-30	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-1.931	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-2.246	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-2.003	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				20	3.27	-7.067	-0.0101	-2.5 to 2.5	Pass
					3.85	-5.507	-0.0079	-2.5 to 2.5	Pass
					4.43	-5.937	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-7.439	-0.0106	-2.5 to 2.5	Pass
				-20	3.85	-5.994	-0.0086	-2.5 to 2.5	Pass
				-10	3.85	-6.237	-0.0089	-2.5 to 2.5	Pass
16QAM	707.5	15	0	0	3.85	-6.366	-0.0091	-2.5 to 2.5	Pass
				10	3.85	-7.925	-0.0113	-2.5 to 2.5	Pass
				30	3.85	-7.710	-0.0110	-2.5 to 2.5	Pass
				40	3.85	-6.967	-0.0099	-2.5 to 2.5	Pass
				50	3.85	-6.738	-0.0096	-2.5 to 2.5	Pass
				20	3.27	-4.506	-0.0064	-2.5 to 2.5	Pass
					3.85	-5.922	-0.0084	-2.5 to 2.5	Pass
					4.43	-5.822	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-5.093	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-6.351	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-8.655	-0.0122	-2.5 to 2.5	Pass
				0	3.85	-7.911	-0.0112	-2.5 to 2.5	Pass
				10	3.85	-7.267	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-7.339	-0.0104	-2.5 to 2.5	Pass
	714.5	15	0	40	3.85	-6.366	-0.0090	-2.5 to 2.5	Pass
				50	3.85	-7.024	-0.0099	-2.5 to 2.5	Pass
				20	3.27	-0.072	-0.0001	-2.5 to 2.5	Pass
					3.85	0.186	0.0003	-2.5 to 2.5	Pass
					4.43	1.860	0.0026	-2.5 to 2.5	Pass
				-30	3.85	1.388	0.0019	-2.5 to 2.5	Pass
				-20	3.85	4.721	0.0066	-2.5 to 2.5	Pass
				-10	3.85	4.735	0.0066	-2.5 to 2.5	Pass
				0	3.85	4.692	0.0066	-2.5 to 2.5	Pass
				10	3.85	5.937	0.0083	-2.5 to 2.5	Pass

				30	3.85	6.738	0.0094	-2.5 to 2.5	Pass
				40	3.85	7.339	0.0103	-2.5 to 2.5	Pass
				50	3.85	5.794	0.0081	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	-16.422	-0.0234	-2.5 to 2.5	Pass
					3.85	-23.990	-0.0342	-2.5 to 2.5	Pass
					4.43	-17.495	-0.0249	-2.5 to 2.5	Pass
				-30	3.85	-49.124	-0.0700	-2.5 to 2.5	Pass
				-20	3.85	-18.897	-0.0269	-2.5 to 2.5	Pass
				-10	3.85	-32.258	-0.0460	-2.5 to 2.5	Pass
				0	3.85	-45.905	-0.0654	-2.5 to 2.5	Pass
				10	3.85	-9.212	-0.0131	-2.5 to 2.5	Pass
				30	3.85	-16.322	-0.0233	-2.5 to 2.5	Pass
				40	3.85	-23.332	-0.0333	-2.5 to 2.5	Pass
				50	3.85	-26.736	-0.0381	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	0.801	0.0011	-2.5 to 2.5	Pass
					3.85	0.844	0.0012	-2.5 to 2.5	Pass
					4.43	-2.418	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-4.349	-0.0061	-2.5 to 2.5	Pass
				-20	3.85	-3.548	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-5.922	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-4.964	-0.0070	-2.5 to 2.5	Pass
				10	3.85	-9.084	-0.0128	-2.5 to 2.5	Pass
				30	3.85	-6.166	-0.0087	-2.5 to 2.5	Pass
				40	3.85	-6.638	-0.0094	-2.5 to 2.5	Pass
				50	3.85	-5.035	-0.0071	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	4.678	0.0066	-2.5 to 2.5	Pass
					3.85	0.858	0.0012	-2.5 to 2.5	Pass
					4.43	2.775	0.0039	-2.5 to 2.5	Pass
				-30	3.85	3.877	0.0054	-2.5 to 2.5	Pass
				-20	3.85	3.476	0.0049	-2.5 to 2.5	Pass
				-10	3.85	4.764	0.0067	-2.5 to 2.5	Pass
				0	3.85	4.921	0.0069	-2.5 to 2.5	Pass
				10	3.85	5.622	0.0079	-2.5 to 2.5	Pass
				30	3.85	7.639	0.0107	-2.5 to 2.5	Pass
				40	3.85	7.524	0.0105	-2.5 to 2.5	Pass
				50	3.85	8.411	0.0118	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-31.800	-0.0453	-2.5 to 2.5	Pass
					3.85	-33.445	-0.0477	-2.5 to 2.5	Pass
					4.43	-37.322	-0.0532	-2.5 to 2.5	Pass
				-30	3.85	-40.197	-0.0573	-2.5 to 2.5	Pass
				-20	3.85	-45.490	-0.0648	-2.5 to 2.5	Pass
				-10	3.85	-47.164	-0.0672	-2.5 to 2.5	Pass
				0	3.85	-47.193	-0.0673	-2.5 to 2.5	Pass
				10	3.85	-47.364	-0.0675	-2.5 to 2.5	Pass
				30	3.85	-47.593	-0.0678	-2.5 to 2.5	Pass
				40	3.85	-49.224	-0.0702	-2.5 to 2.5	Pass
				50	3.85	3.362	0.0048	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-6.909	-0.0098	-2.5 to 2.5	Pass
					3.85	-7.024	-0.0099	-2.5 to 2.5	Pass
					4.43	-5.465	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-4.077	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-4.864	-0.0069	-2.5 to 2.5	Pass

				-10	3.85	-4.706	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-6.752	-0.0095	-2.5 to 2.5	Pass
				10	3.85	-7.124	-0.0101	-2.5 to 2.5	Pass
				30	3.85	-7.653	-0.0108	-2.5 to 2.5	Pass
				40	3.85	-8.497	-0.0120	-2.5 to 2.5	Pass
				50	3.85	-6.123	-0.0087	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	9.255	0.0130	-2.5 to 2.5	Pass
					3.85	10.114	0.0142	-2.5 to 2.5	Pass
					4.43	8.683	0.0122	-2.5 to 2.5	Pass
				-30	3.85	9.699	0.0136	-2.5 to 2.5	Pass
				-20	3.85	8.440	0.0118	-2.5 to 2.5	Pass
				-10	3.85	11.373	0.0159	-2.5 to 2.5	Pass
				0	3.85	10.214	0.0143	-2.5 to 2.5	Pass
				10	3.85	10.071	0.0141	-2.5 to 2.5	Pass
				30	3.85	11.001	0.0154	-2.5 to 2.5	Pass
				40	3.85	10.428	0.0146	-2.5 to 2.5	Pass
				50	3.85	11.315	0.0159	-2.5 to 2.5	Pass

2.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.27	6.852	0.0097	-2.5 to 2.5	Pass
					3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
					4.43	-3.977	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-6.938	-0.0099	-2.5 to 2.5	Pass
				-20	3.85	-10.171	-0.0144	-2.5 to 2.5	Pass
				-10	3.85	-11.616	-0.0165	-2.5 to 2.5	Pass
				0	3.85	-11.902	-0.0169	-2.5 to 2.5	Pass
				10	3.85	-12.231	-0.0174	-2.5 to 2.5	Pass
				30	3.85	-11.444	-0.0163	-2.5 to 2.5	Pass
				40	3.85	-15.521	-0.0220	-2.5 to 2.5	Pass
				50	3.85	-14.577	-0.0207	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	2.675	0.0038	-2.5 to 2.5	Pass
					3.85	4.821	0.0068	-2.5 to 2.5	Pass
					4.43	5.851	0.0083	-2.5 to 2.5	Pass
				-30	3.85	7.439	0.0105	-2.5 to 2.5	Pass
				-20	3.85	9.742	0.0138	-2.5 to 2.5	Pass
				-10	3.85	12.231	0.0173	-2.5 to 2.5	Pass
				0	3.85	13.890	0.0196	-2.5 to 2.5	Pass
				10	3.85	15.578	0.0220	-2.5 to 2.5	Pass
				30	3.85	15.821	0.0224	-2.5 to 2.5	Pass
				40	3.85	15.192	0.0215	-2.5 to 2.5	Pass
				50	3.85	16.809	0.0238	-2.5 to 2.5	Pass
	711	50	0	20	3.27	6.967	0.0098	-2.5 to 2.5	Pass
					3.85	8.111	0.0114	-2.5 to 2.5	Pass
					4.43	7.696	0.0108	-2.5 to 2.5	Pass
				-30	3.85	8.869	0.0125	-2.5 to 2.5	Pass
				-20	3.85	7.210	0.0101	-2.5 to 2.5	Pass
				-10	3.85	7.067	0.0099	-2.5 to 2.5	Pass
				0	3.85	7.281	0.0102	-2.5 to 2.5	Pass
				10	3.85	5.894	0.0083	-2.5 to 2.5	Pass
				30	3.85	6.809	0.0096	-2.5 to 2.5	Pass
				40	3.85	7.610	0.0107	-2.5 to 2.5	Pass
				50	3.85	7.353	0.0103	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-14.105	-0.0200	-2.5 to 2.5	Pass
					3.85	-12.002	-0.0170	-2.5 to 2.5	Pass

					4.43	-12.245	-0.0174	-2.5 to 2.5	Pass
				-30	3.85	-12.088	-0.0172	-2.5 to 2.5	Pass
				-20	3.85	-11.644	-0.0165	-2.5 to 2.5	Pass
				-10	3.85	-10.800	-0.0153	-2.5 to 2.5	Pass
				0	3.85	-11.716	-0.0166	-2.5 to 2.5	Pass
				10	3.85	-9.856	-0.0140	-2.5 to 2.5	Pass
				30	3.85	-10.886	-0.0155	-2.5 to 2.5	Pass
				40	3.85	-10.028	-0.0142	-2.5 to 2.5	Pass
				50	3.85	-4.778	-0.0068	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	16.980	0.0240	-2.5 to 2.5	Pass
					3.85	19.140	0.0271	-2.5 to 2.5	Pass
					4.43	22.917	0.0324	-2.5 to 2.5	Pass
				-30	3.85	25.206	0.0356	-2.5 to 2.5	Pass
				-20	3.85	28.868	0.0408	-2.5 to 2.5	Pass
				-10	3.85	32.558	0.0460	-2.5 to 2.5	Pass
				0	3.85	32.773	0.0463	-2.5 to 2.5	Pass
				10	3.85	35.362	0.0500	-2.5 to 2.5	Pass
				30	3.85	37.308	0.0527	-2.5 to 2.5	Pass
				40	3.85	37.308	0.0527	-2.5 to 2.5	Pass
				50	3.85	39.268	0.0555	-2.5 to 2.5	Pass
	711	50	0	20	3.27	8.140	0.0114	-2.5 to 2.5	Pass
					3.85	12.889	0.0181	-2.5 to 2.5	Pass
					4.43	14.734	0.0207	-2.5 to 2.5	Pass
				-30	3.85	15.378	0.0216	-2.5 to 2.5	Pass
				-20	3.85	19.398	0.0273	-2.5 to 2.5	Pass
				-10	3.85	22.588	0.0318	-2.5 to 2.5	Pass
				0	3.85	27.037	0.0380	-2.5 to 2.5	Pass
				10	3.85	28.610	0.0402	-2.5 to 2.5	Pass
				30	3.85	27.938	0.0393	-2.5 to 2.5	Pass
				40	3.85	28.267	0.0398	-2.5 to 2.5	Pass
				50	3.85	31.714	0.0446	-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 / NTNV						
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

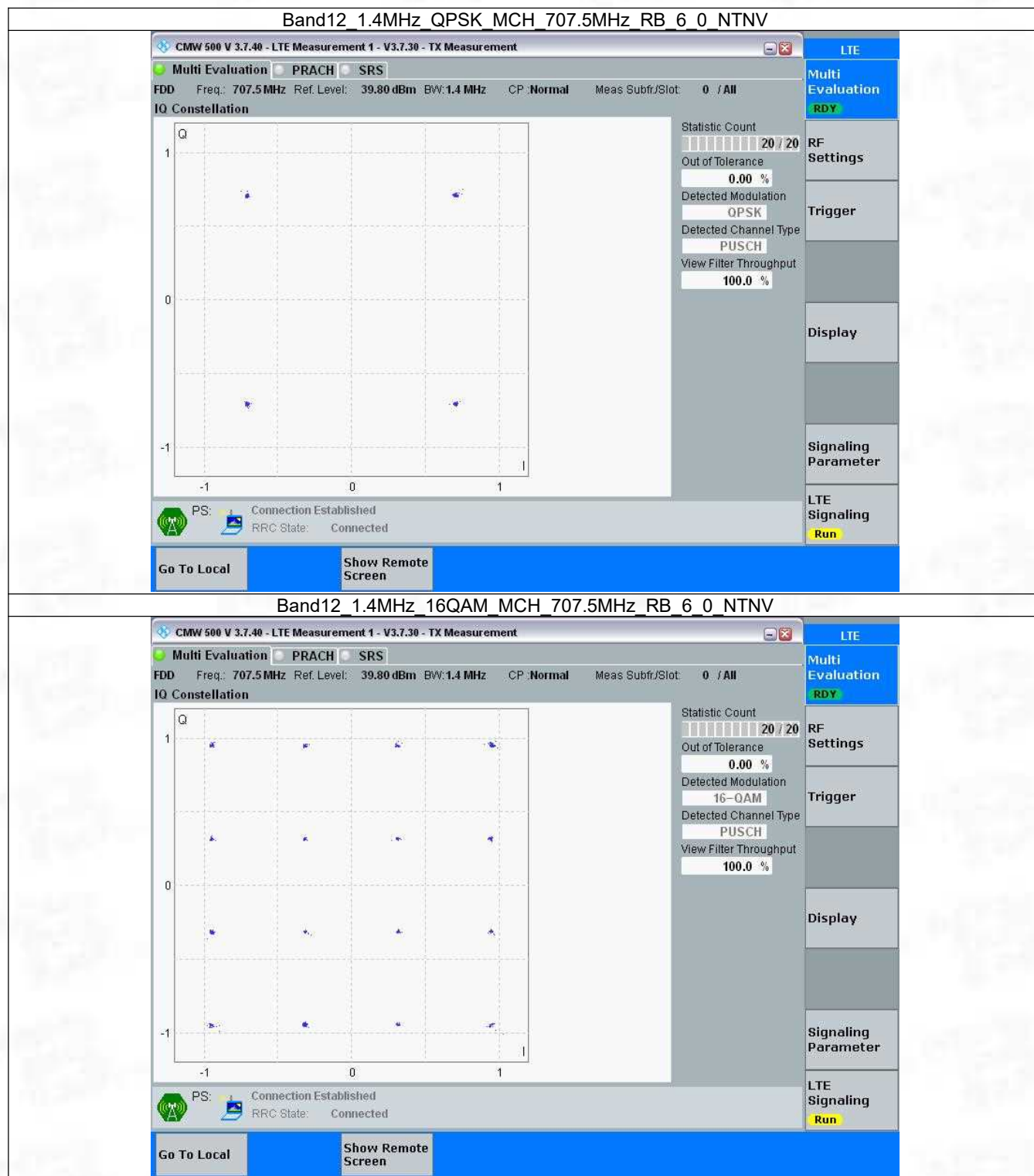
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

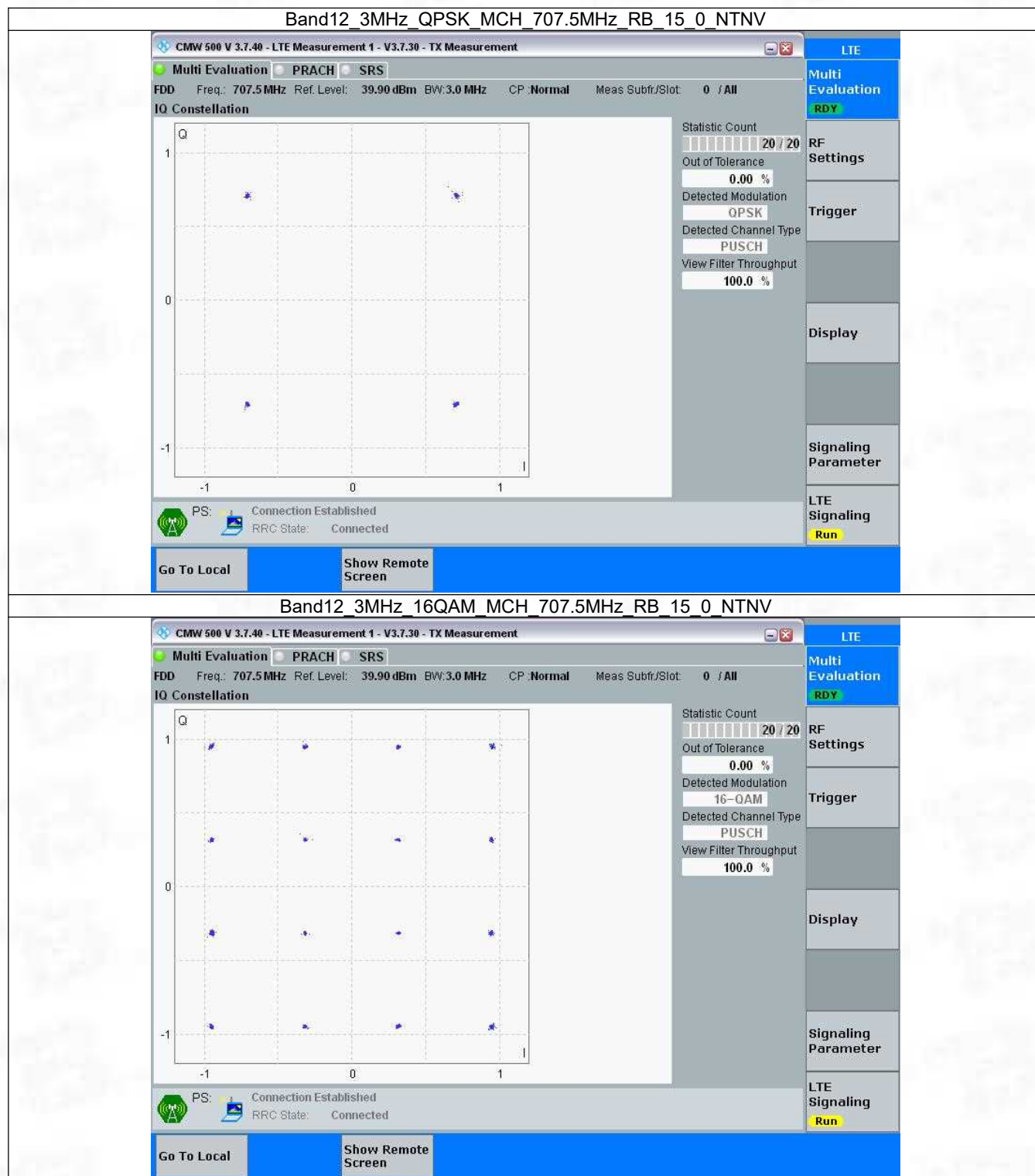
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

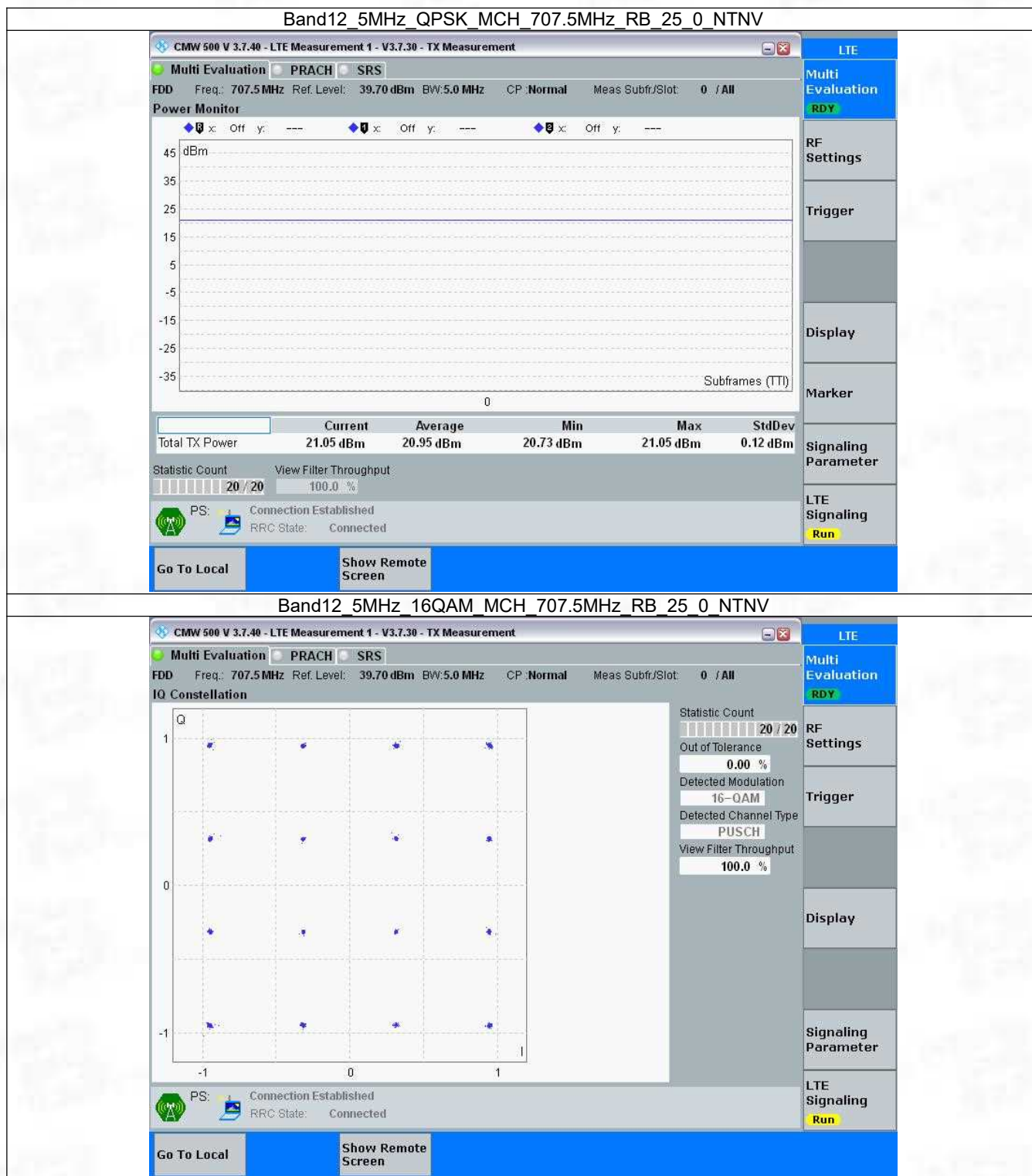
3.2.1 B12_1.4MHz



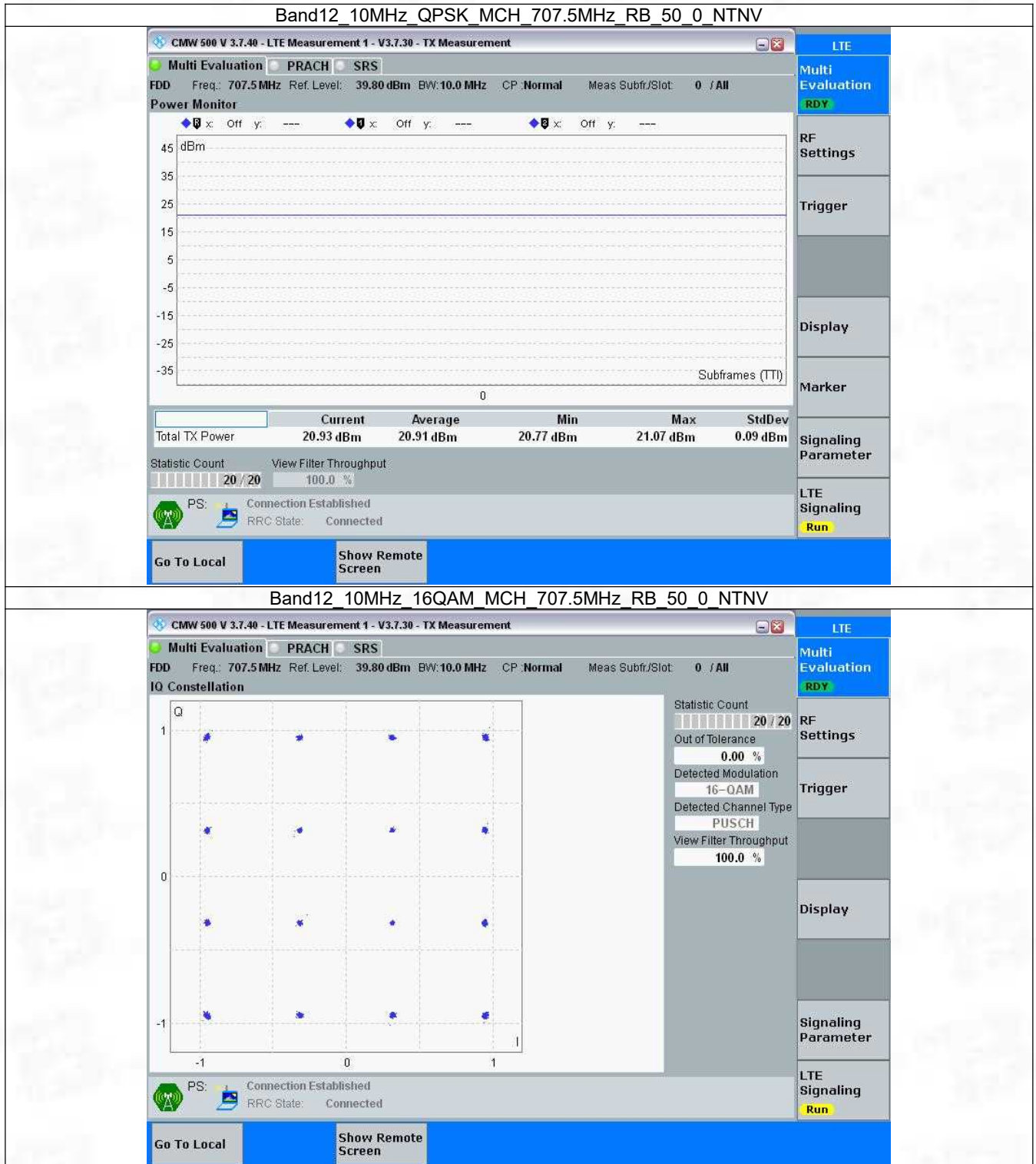
3.2.2 B12_3MHz



3.2.3 B12_5MHz



3.2.4 B12_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.115	/	Pass
		707.5	6	0	1.101	/	Pass
		715.3	6	0	1.109	/	Pass
	16QAM	699.7	6	0	1.111	/	Pass
		707.5	6	0	1.103	/	Pass
		715.3	6	0	1.112	/	Pass
3	QPSK	700.5	15	0	2.748	/	Pass
		707.5	15	0	2.745	/	Pass
		714.5	15	0	2.749	/	Pass
	16QAM	700.5	15	0	2.765	/	Pass
		707.5	15	0	2.758	/	Pass
		714.5	15	0	2.753	/	Pass
5	QPSK	701.5	25	0	4.530	/	Pass
		707.5	25	0	4.552	/	Pass
		713.5	25	0	4.576	/	Pass
	16QAM	701.5	25	0	4.536	/	Pass
		707.5	25	0	4.541	/	Pass
		713.5	25	0	4.550	/	Pass
10	QPSK	704	50	0	9.053	/	Pass
		707.5	50	0	9.118	/	Pass
		711	50	0	9.012	/	Pass
	16QAM	704	50	0	9.032	/	Pass
		707.5	50	0	9.089	/	Pass
		711	50	0	9.047	/	Pass

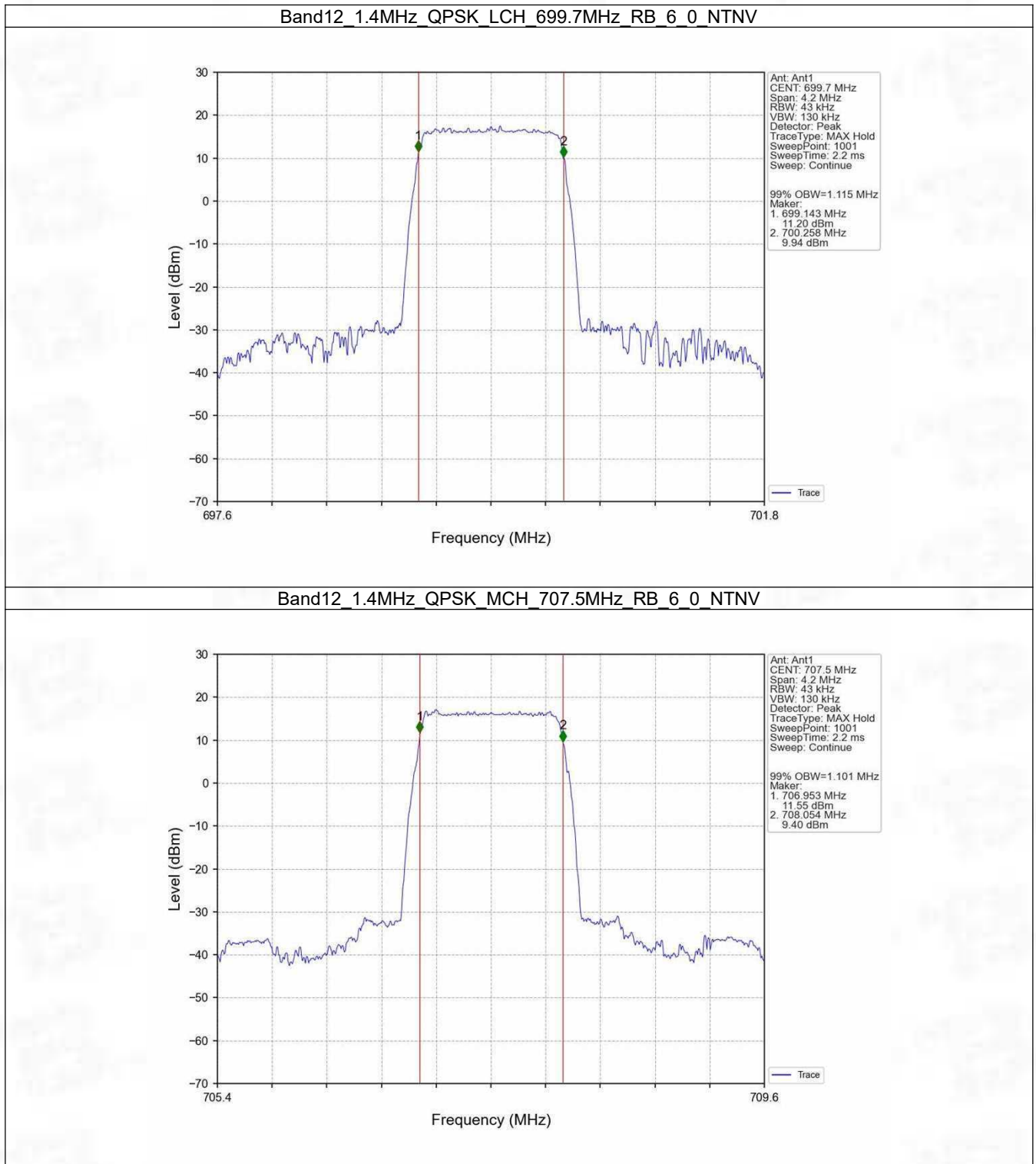
4.1.2 Band12_XDB

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.273	/	Pass
		707.5	6	0	1.272	/	Pass
		715.3	6	0	1.277	/	Pass
	16QAM	699.7	6	0	1.276	/	Pass
		707.5	6	0	1.272	/	Pass
		715.3	6	0	1.275	/	Pass
3	QPSK	700.5	15	0	3.093	/	Pass
		707.5	15	0	3.015	/	Pass
		714.5	15	0	3.076	/	Pass
	16QAM	700.5	15	0	3.083	/	Pass
		707.5	15	0	3.097	/	Pass
		714.5	15	0	3.080	/	Pass
5	QPSK	701.5	25	0	5.046	/	Pass
		707.5	25	0	5.046	/	Pass
		713.5	25	0	5.032	/	Pass

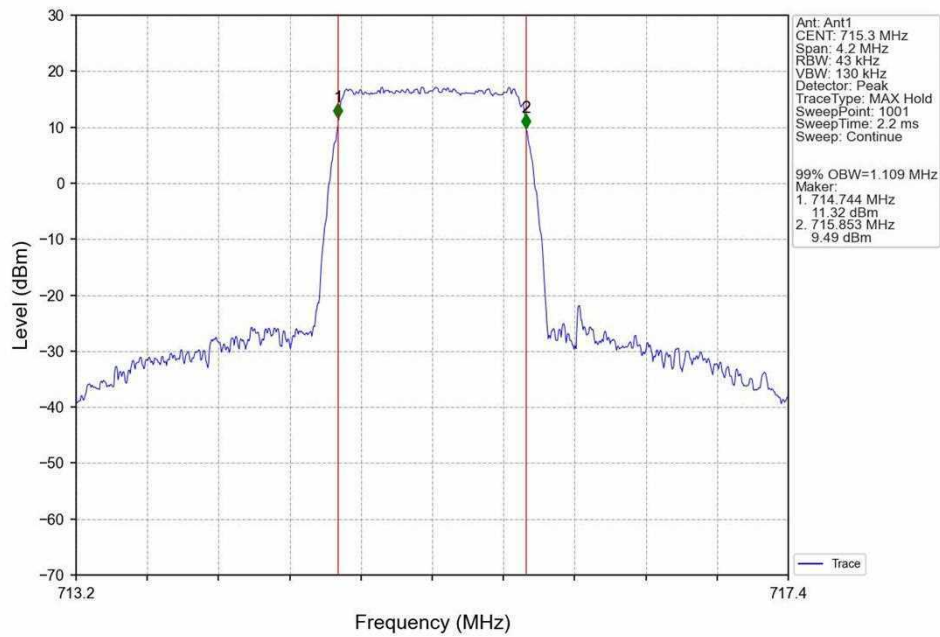
10	16QAM	701.5	25	0	5.040	/	Pass
		707.5	25	0	5.064	/	Pass
		713.5	25	0	5.068	/	Pass
	QPSK	704	50	0	9.955	/	Pass
		707.5	50	0	10.072	/	Pass
		711	50	0	9.773	/	Pass
	16QAM	704	50	0	10.049	/	Pass
		707.5	50	0	10.077	/	Pass
		711	50	0	9.987	/	Pass

4.2 Test Graph

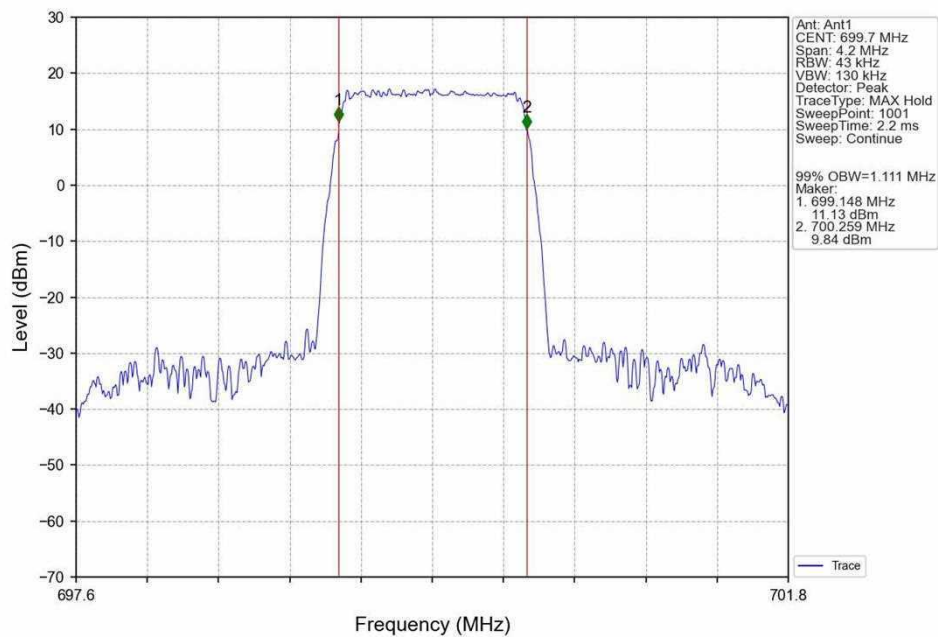
4.2.1 Band12_OBW



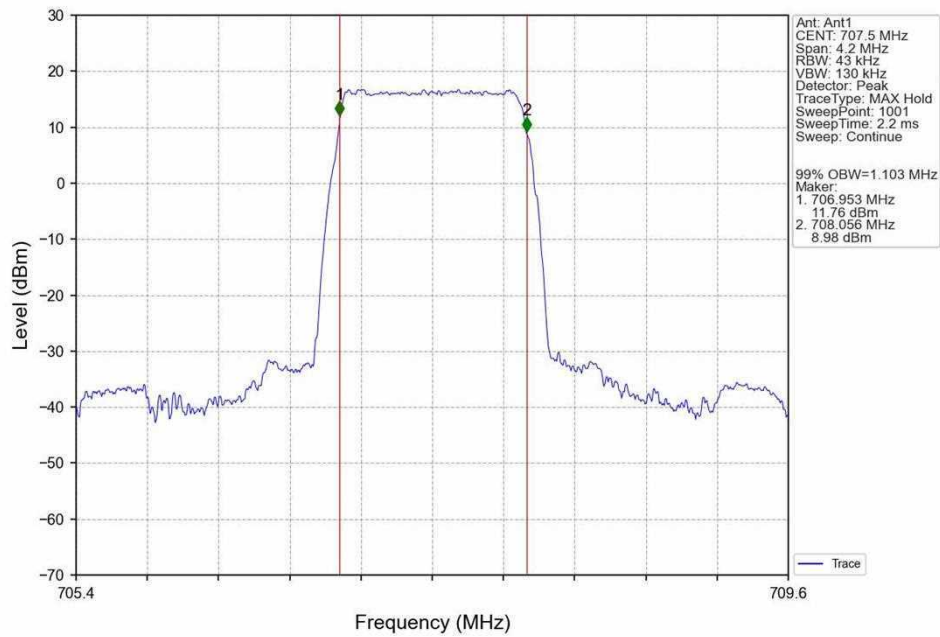
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



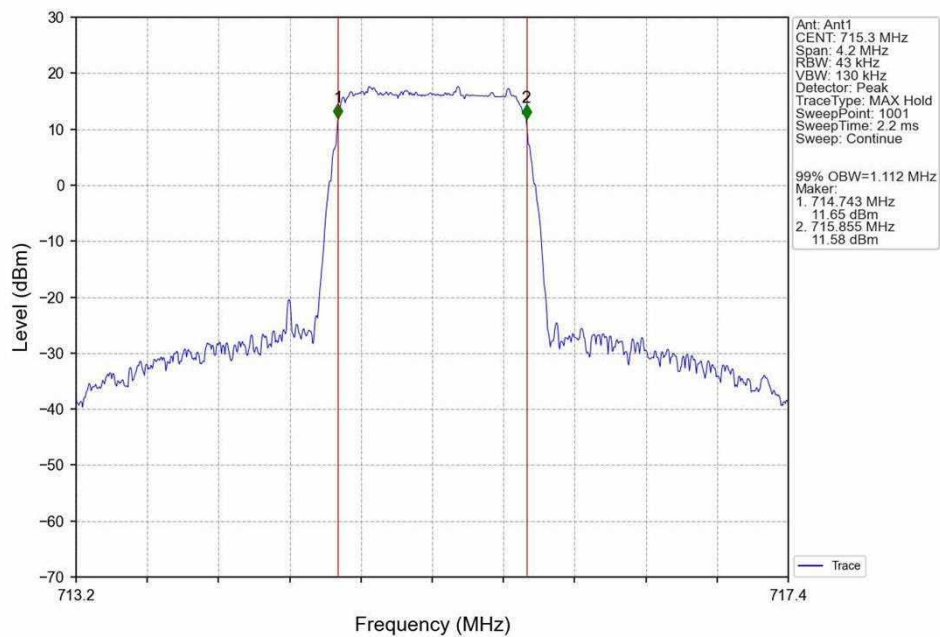
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



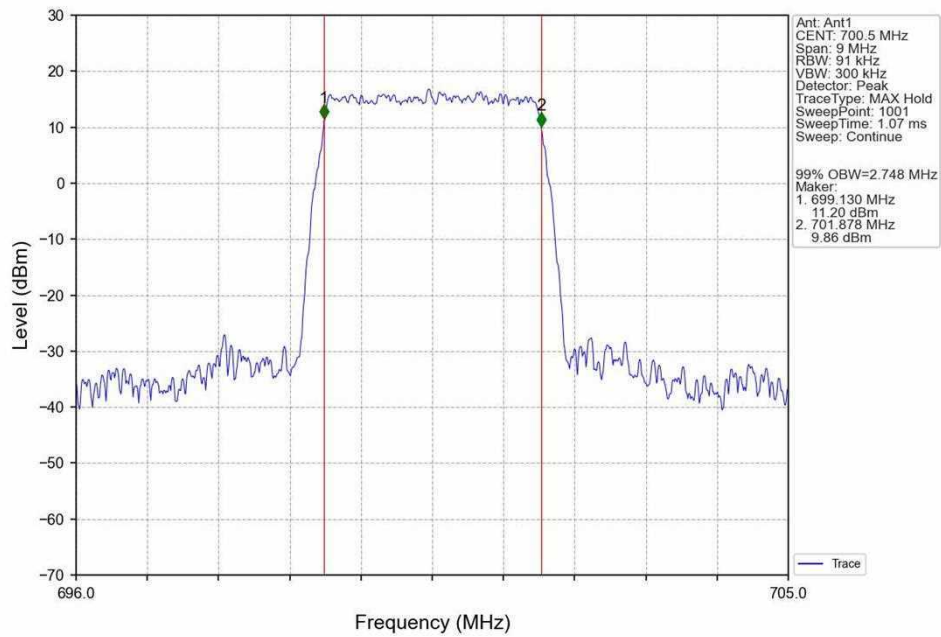
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



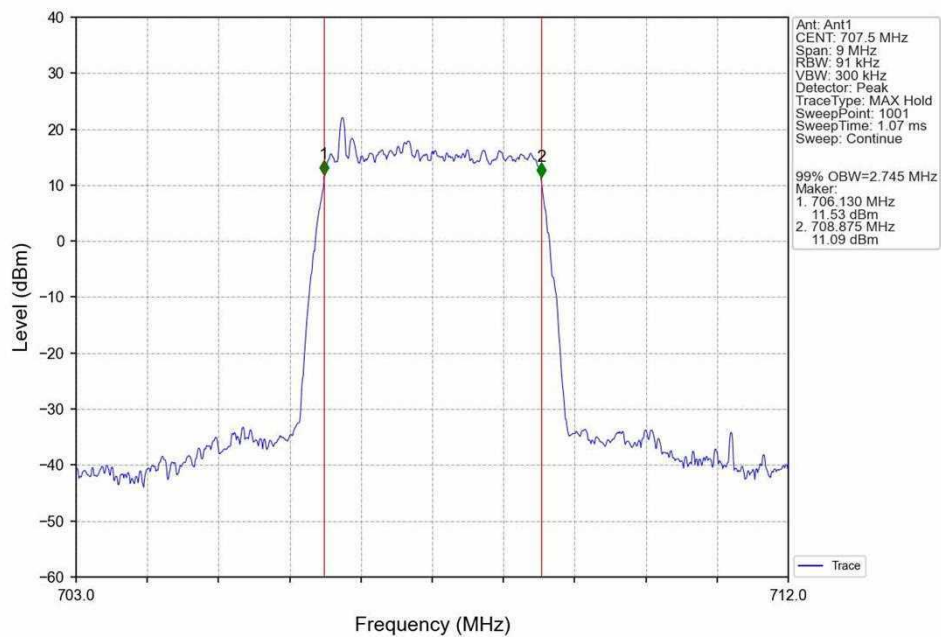
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



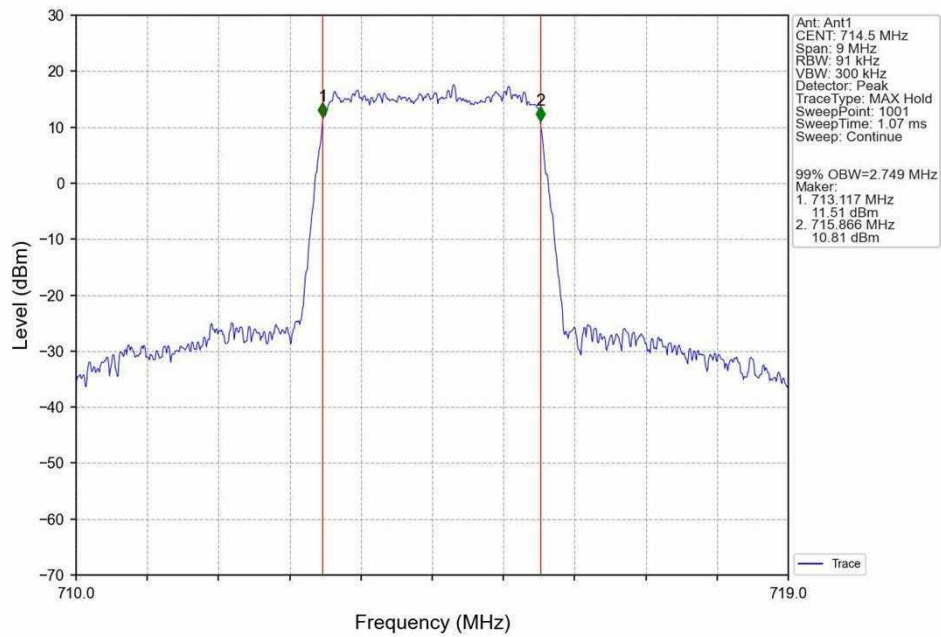
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



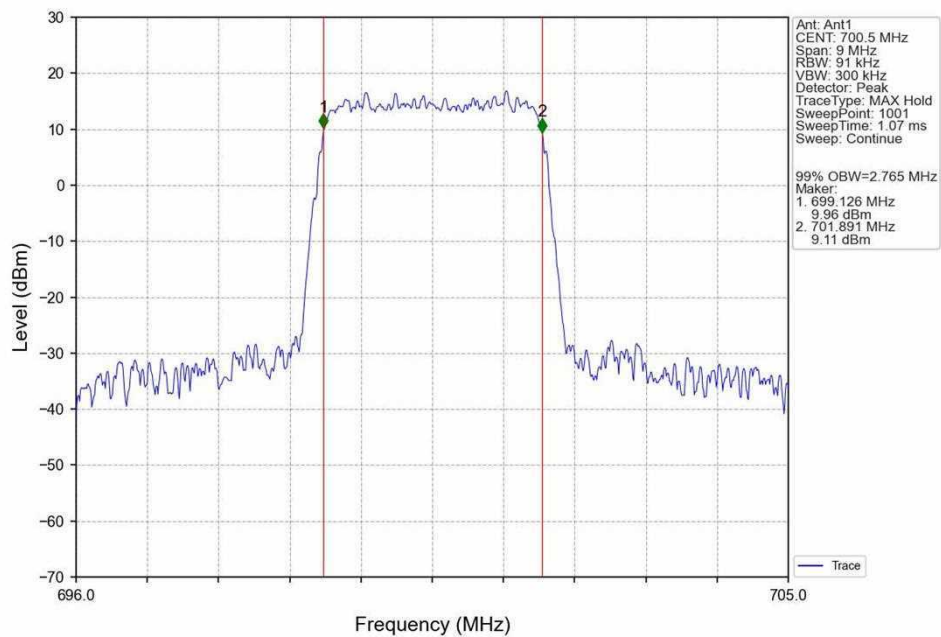
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



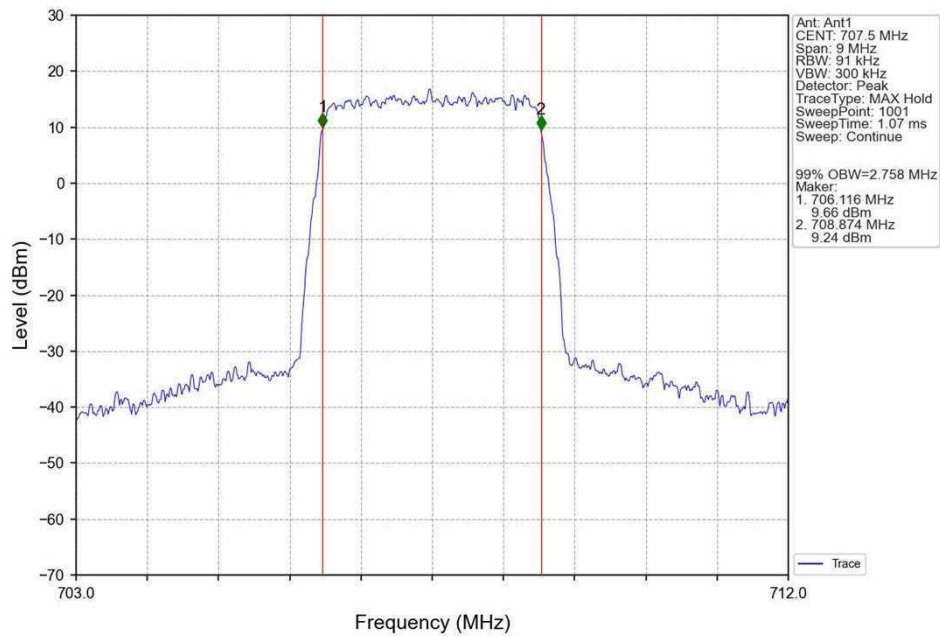
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



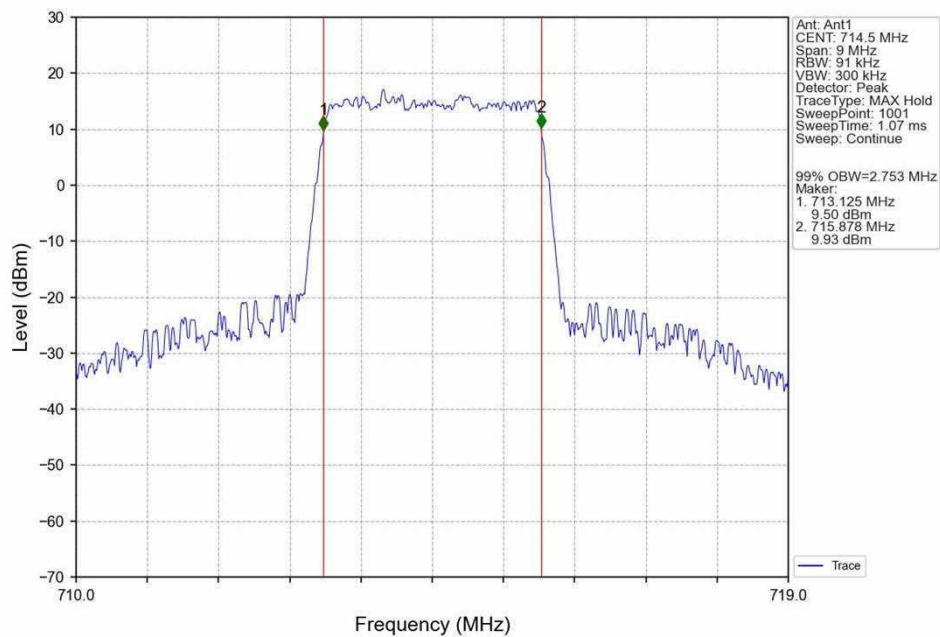
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



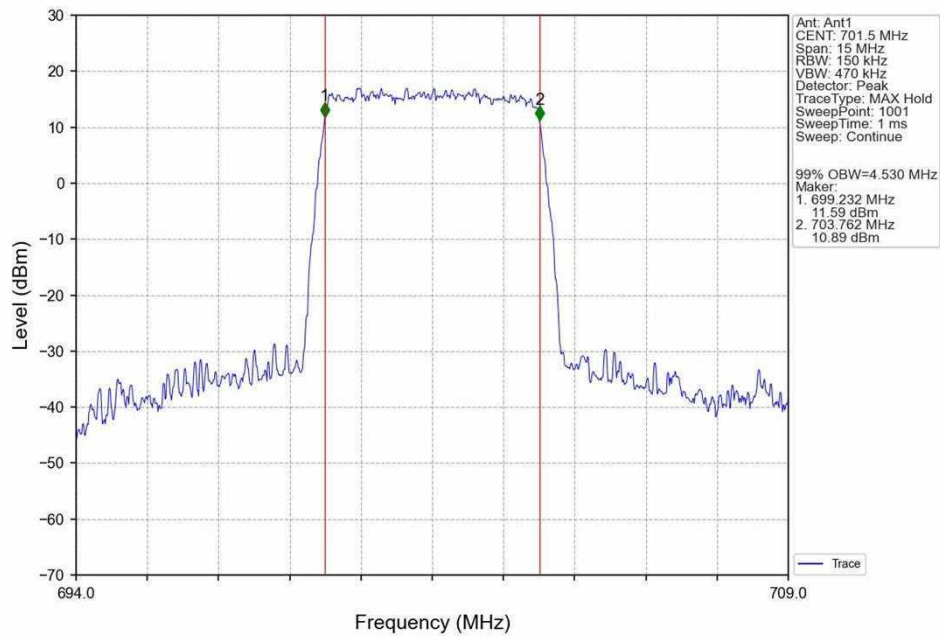
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



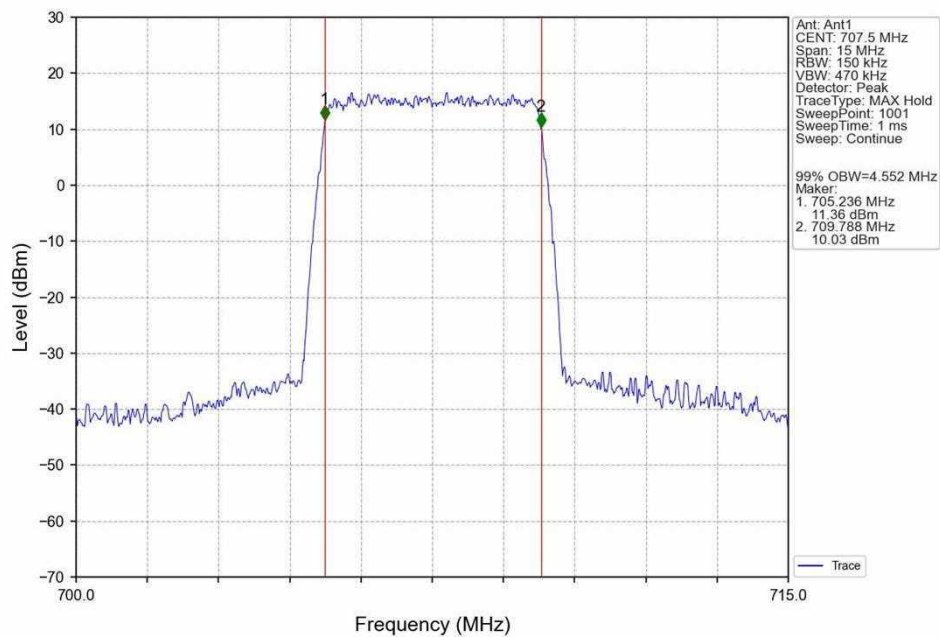
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



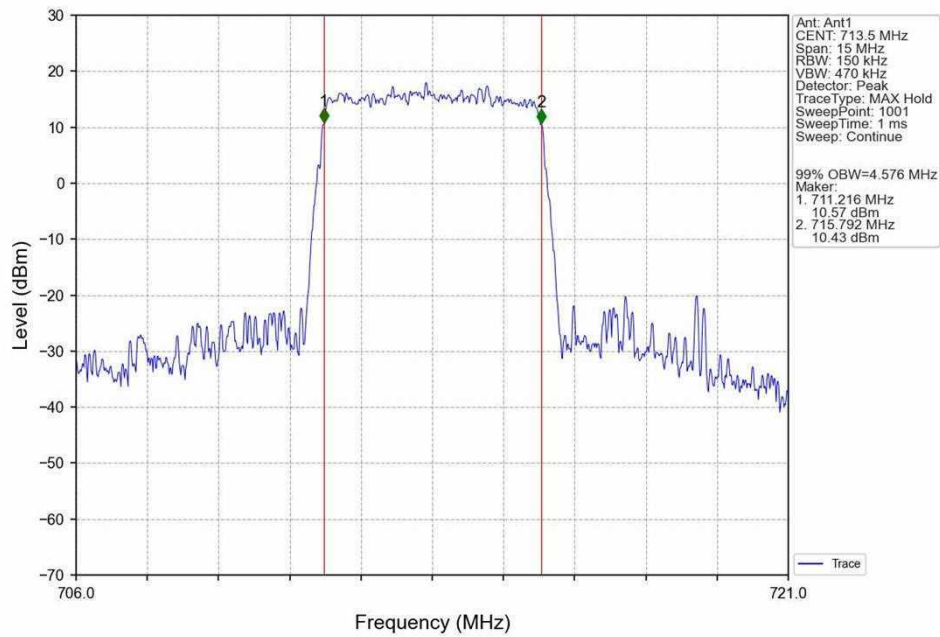
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



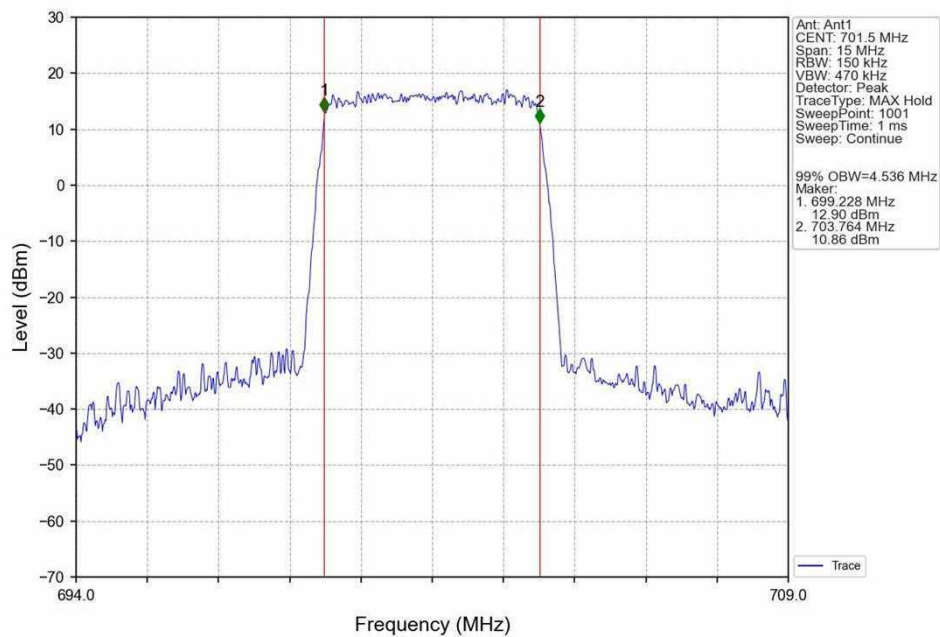
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



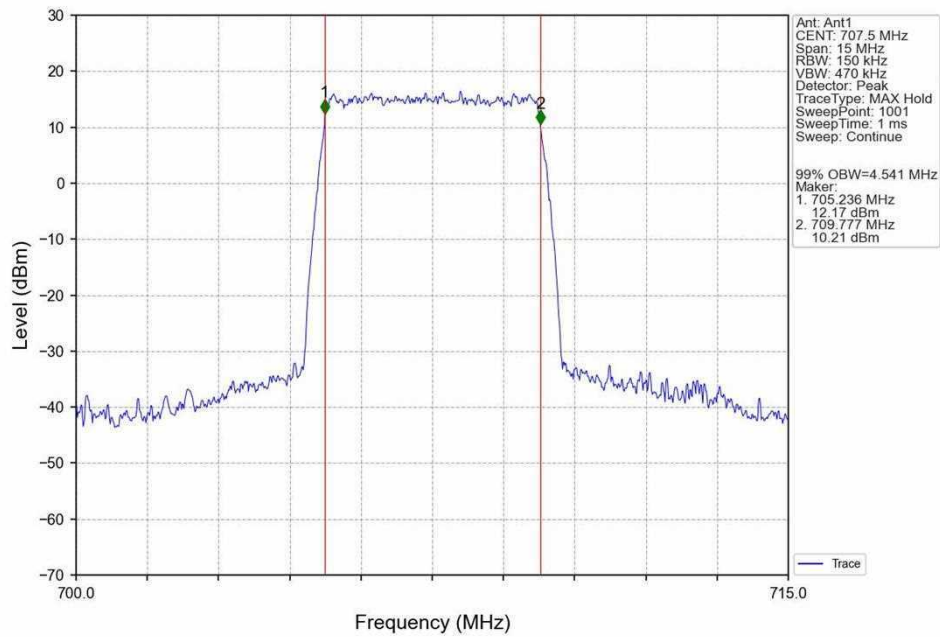
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



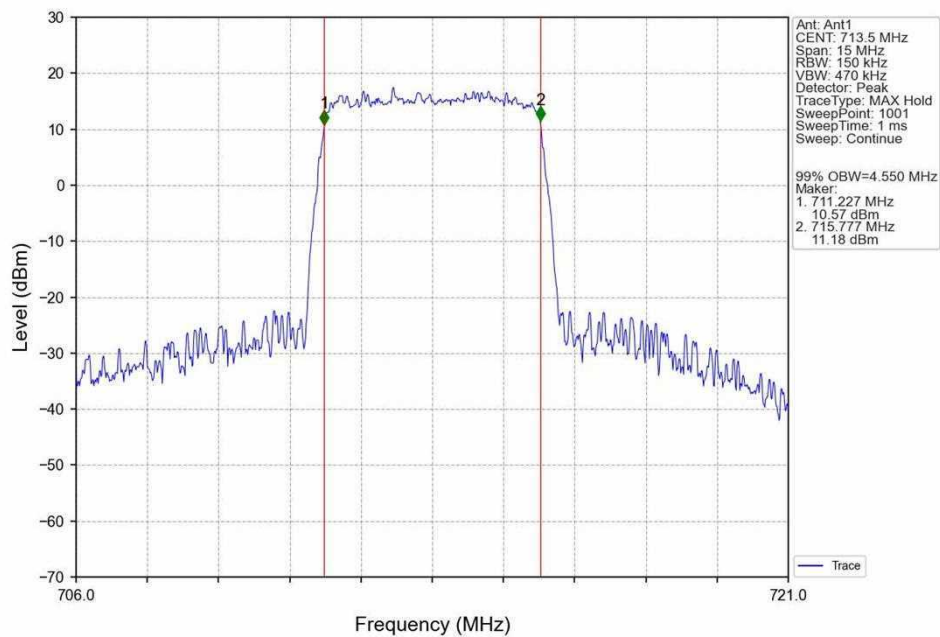
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



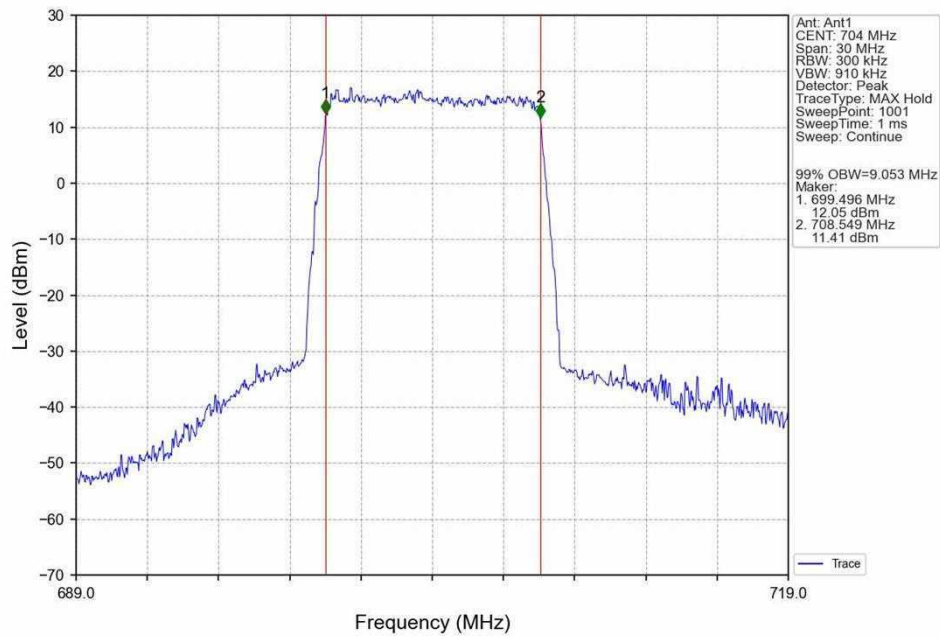
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



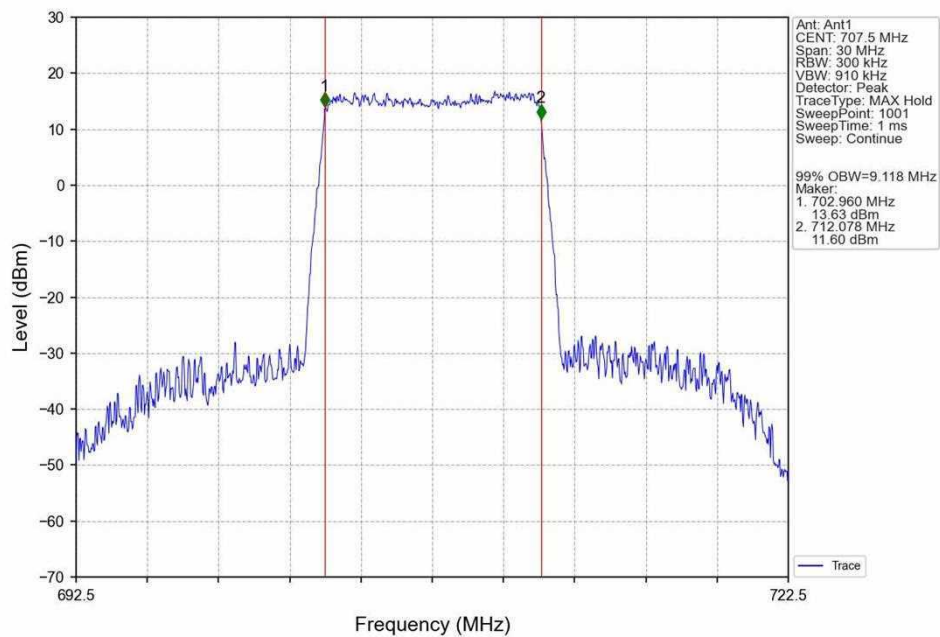
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



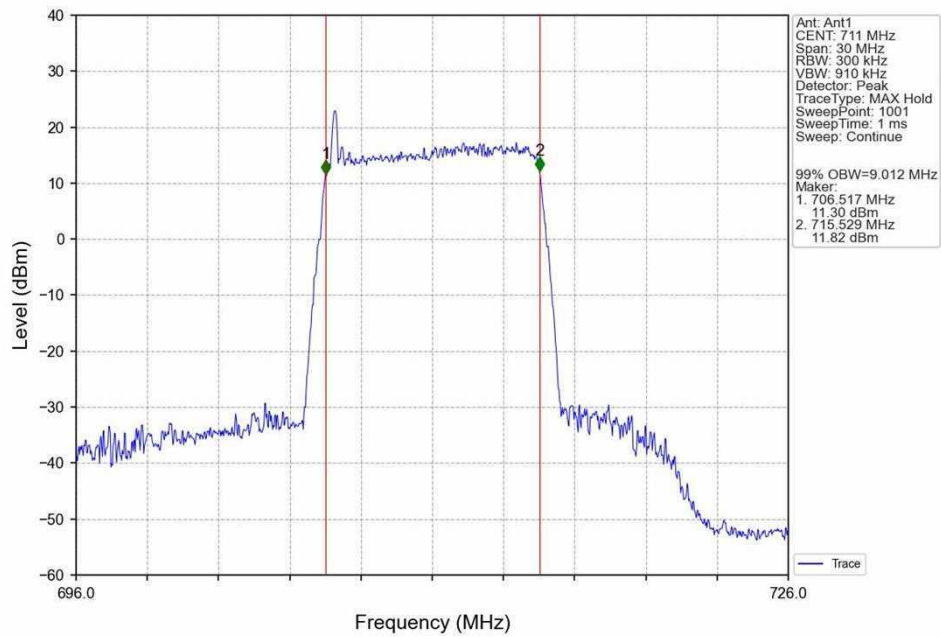
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



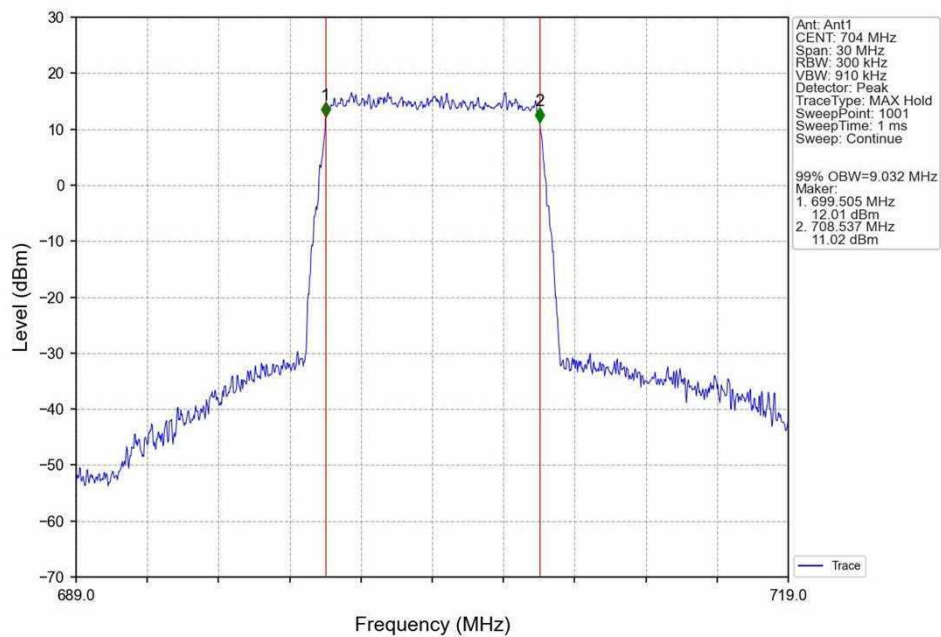
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



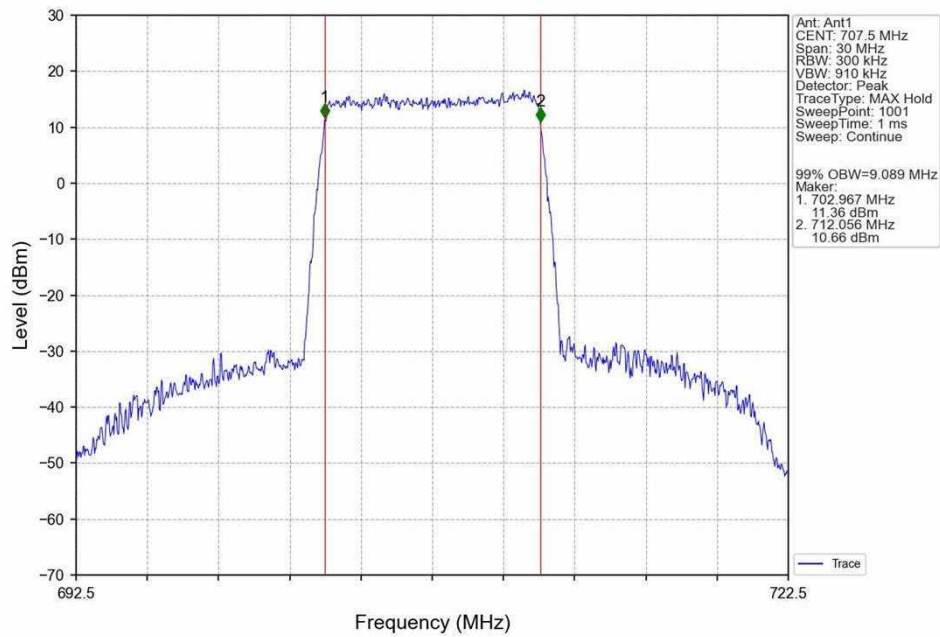
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



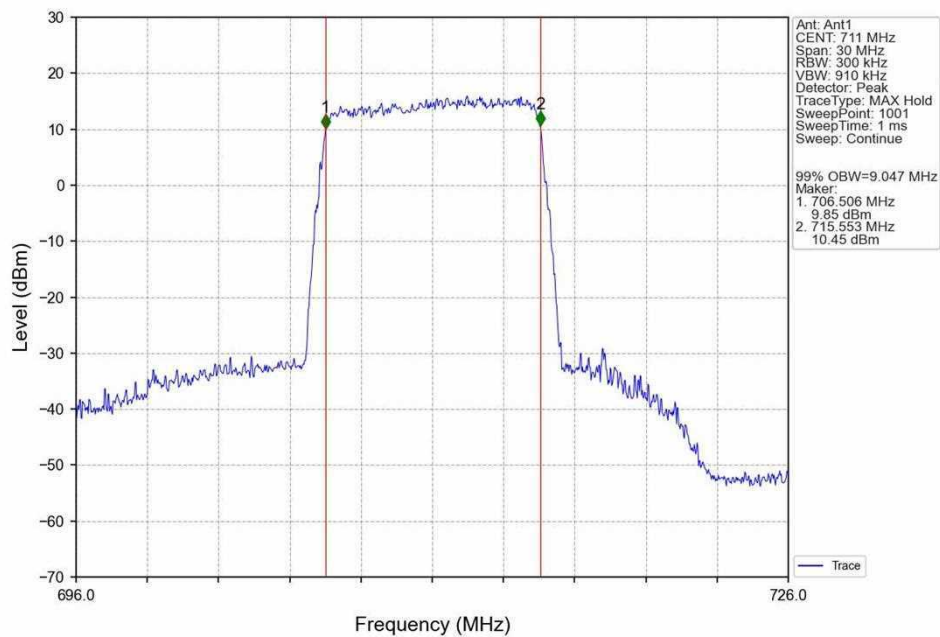
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



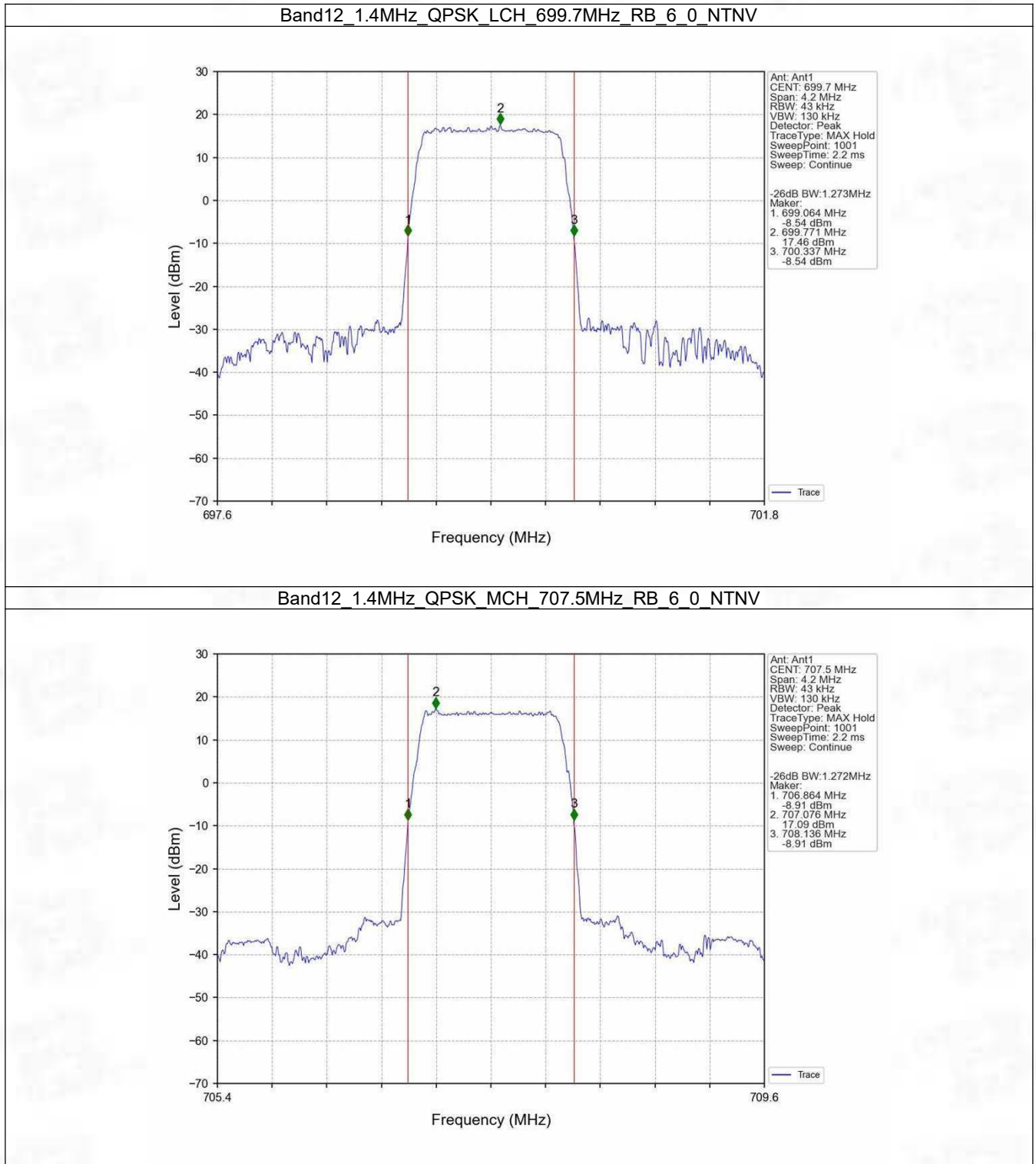
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



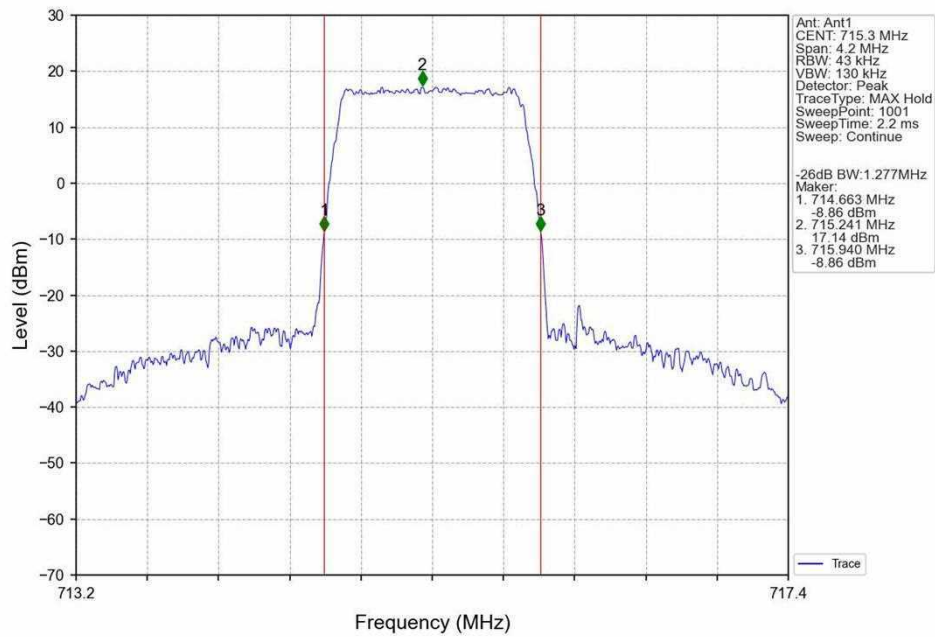
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



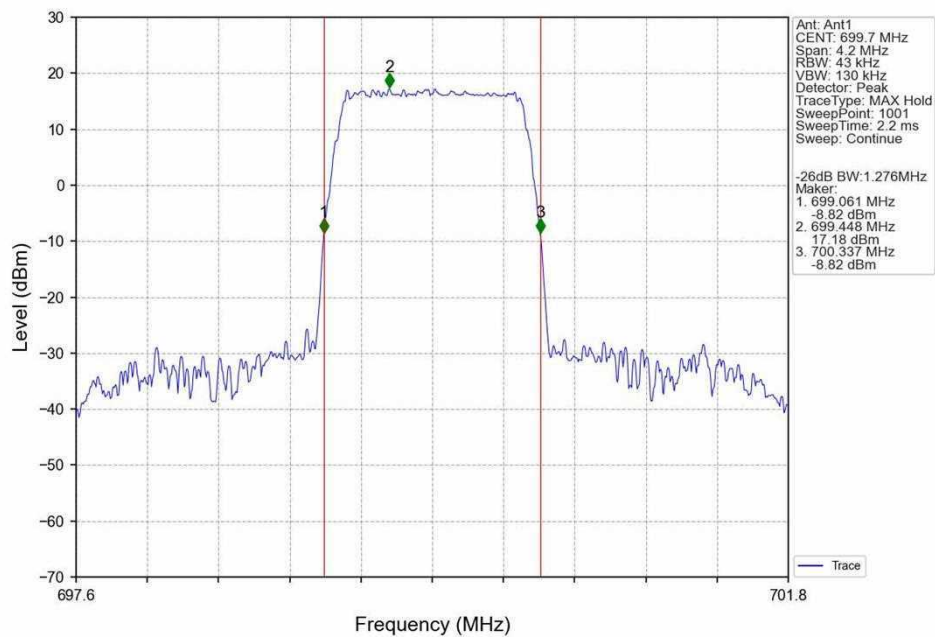
4.2.2 Band12_XDB



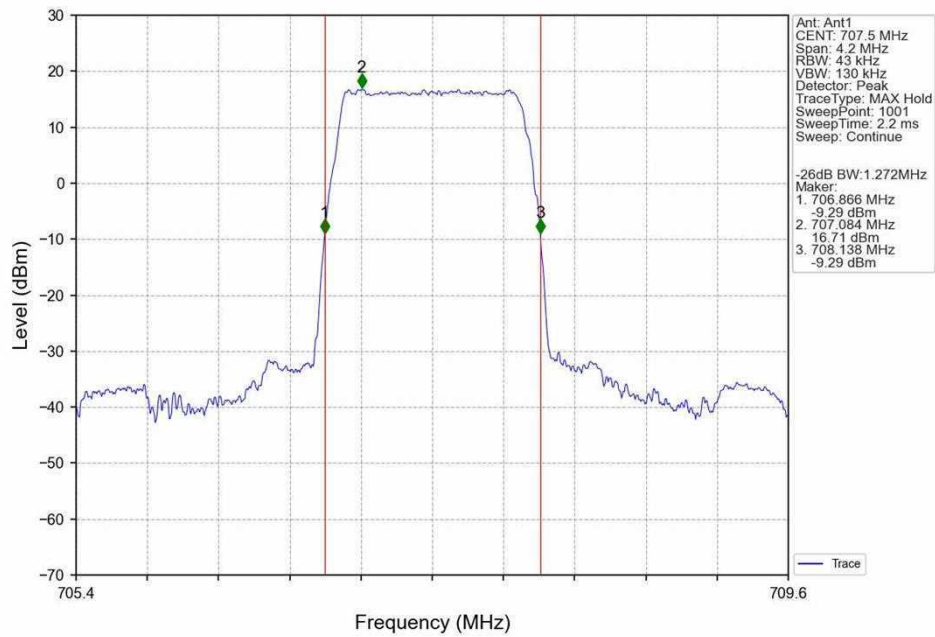
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



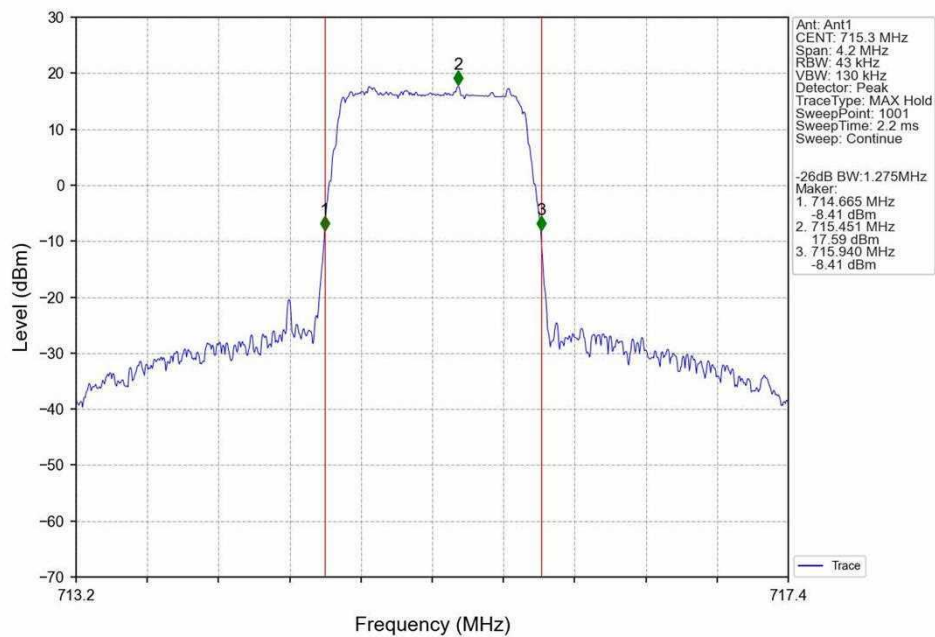
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



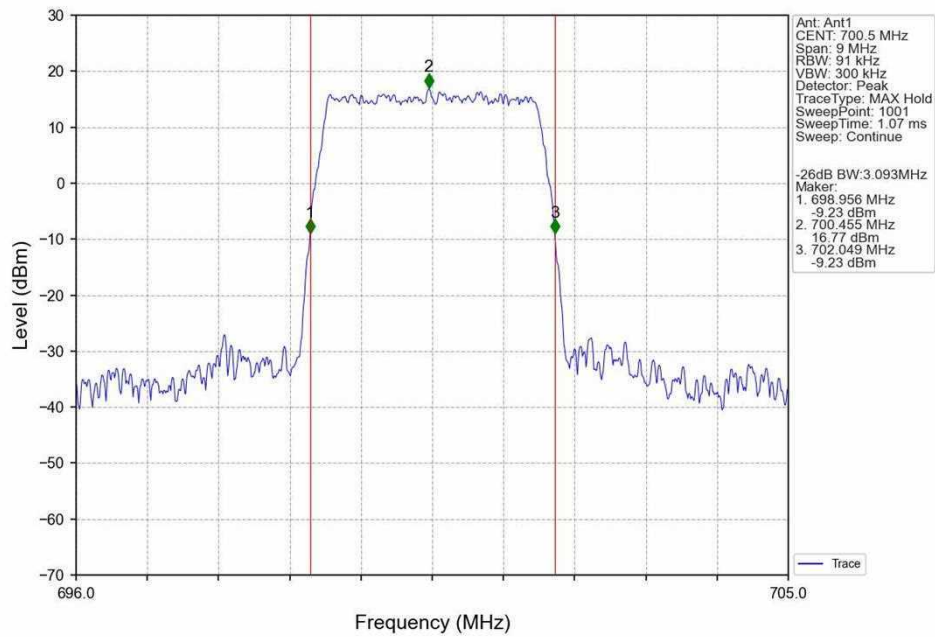
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



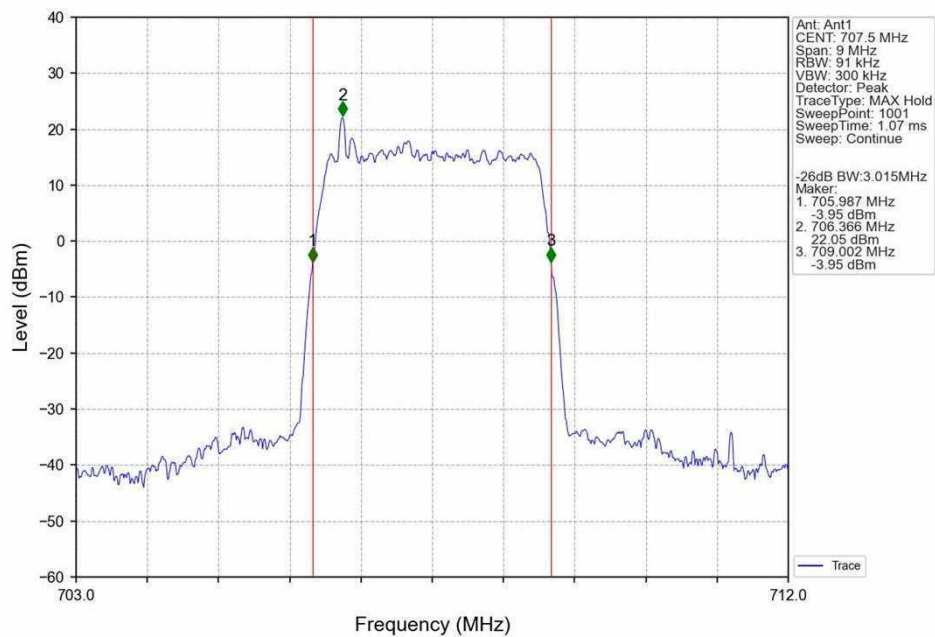
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



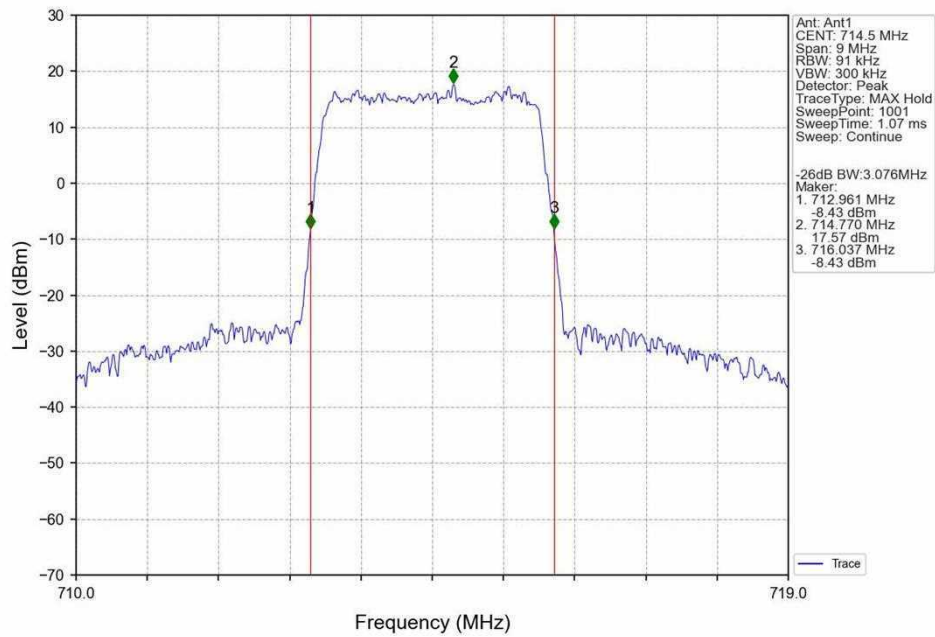
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



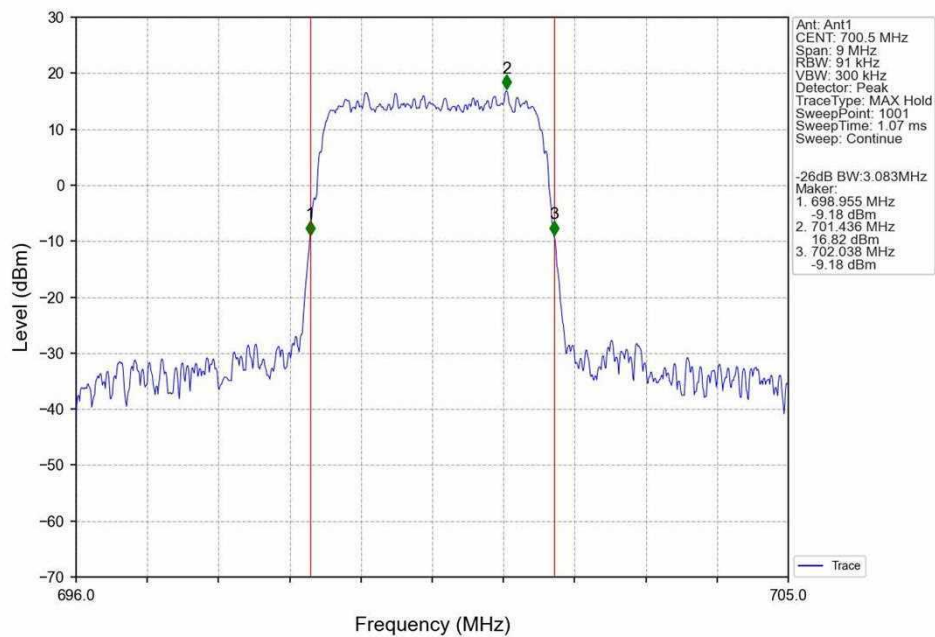
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



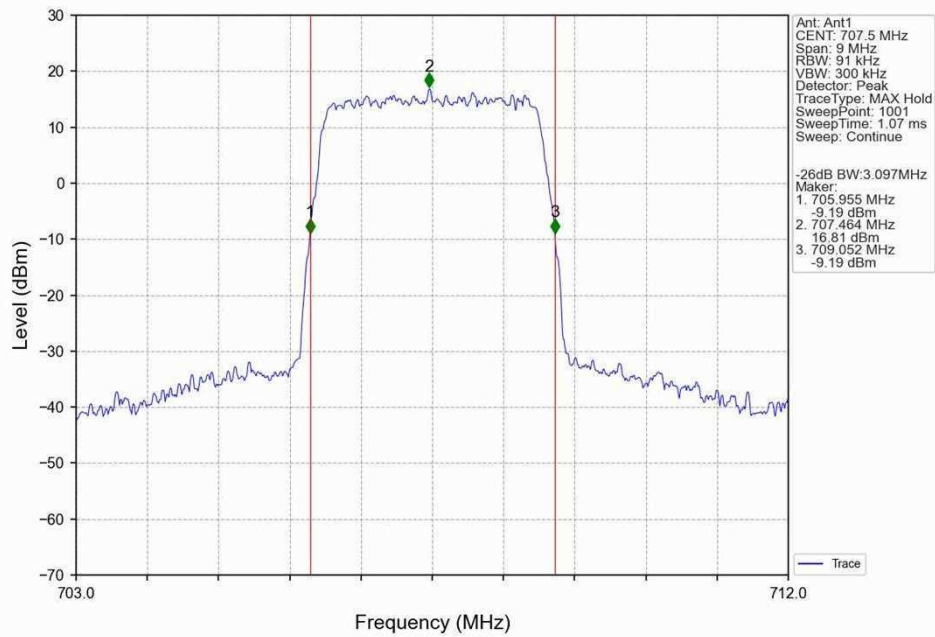
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



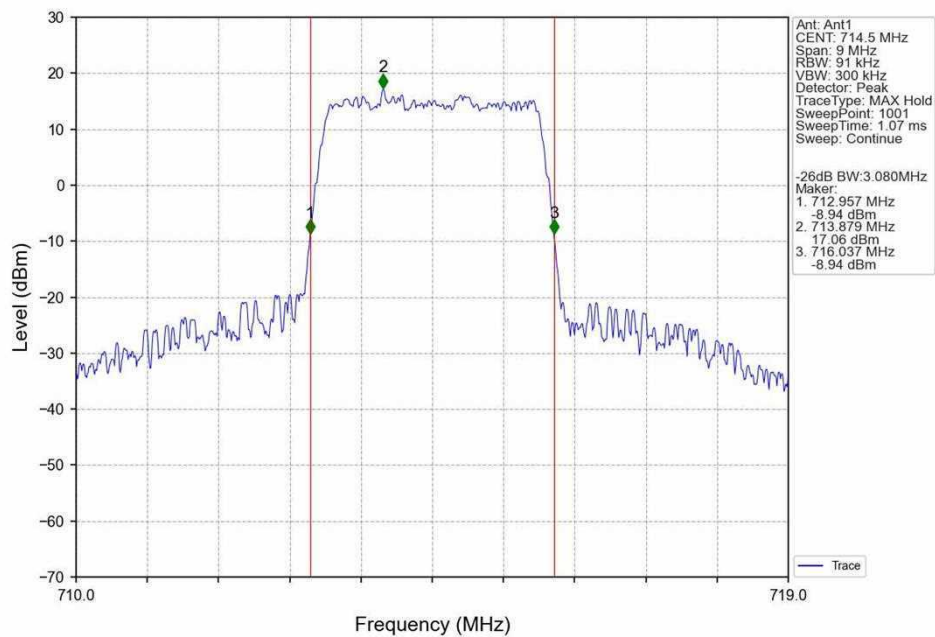
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



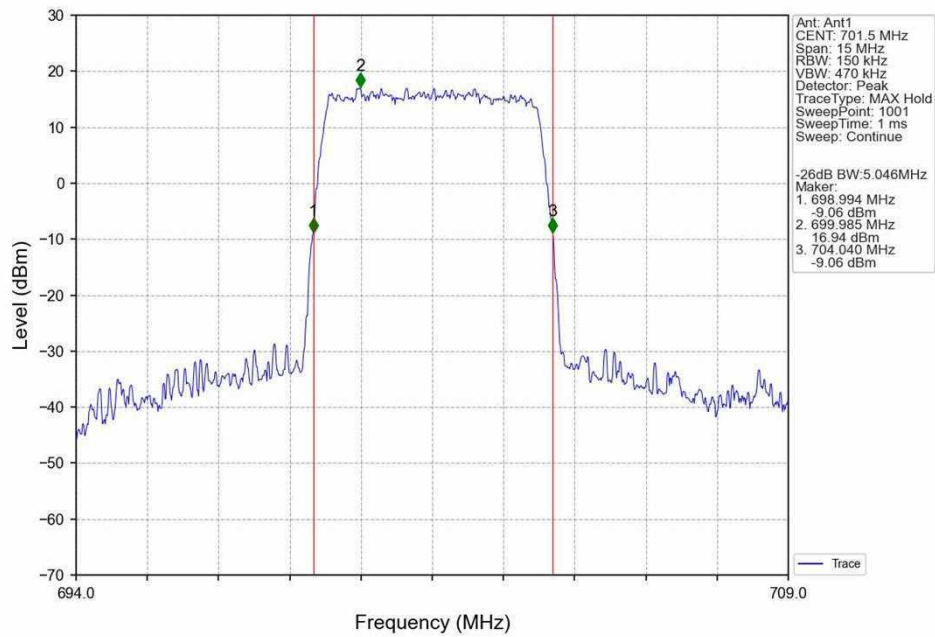
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



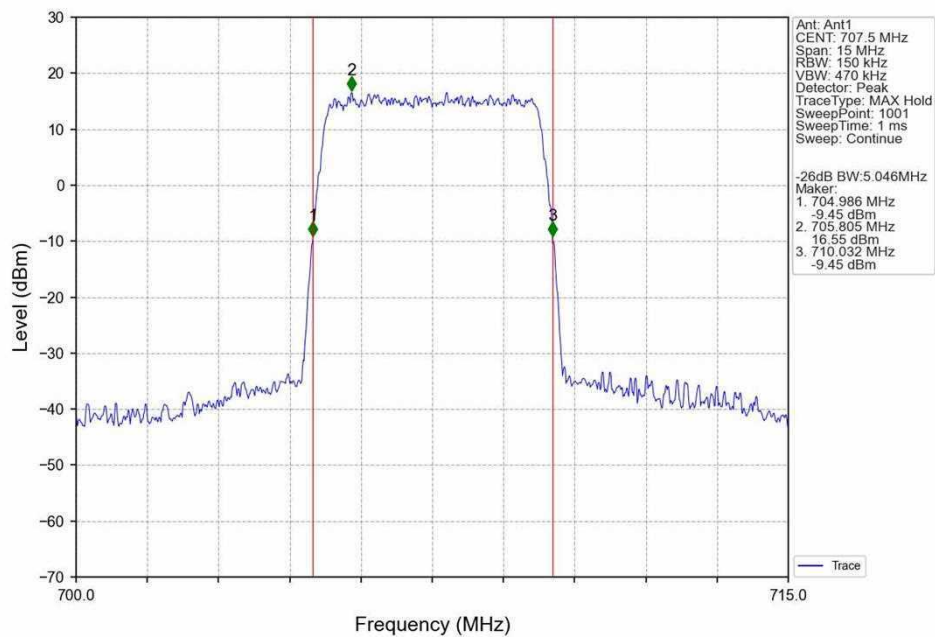
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



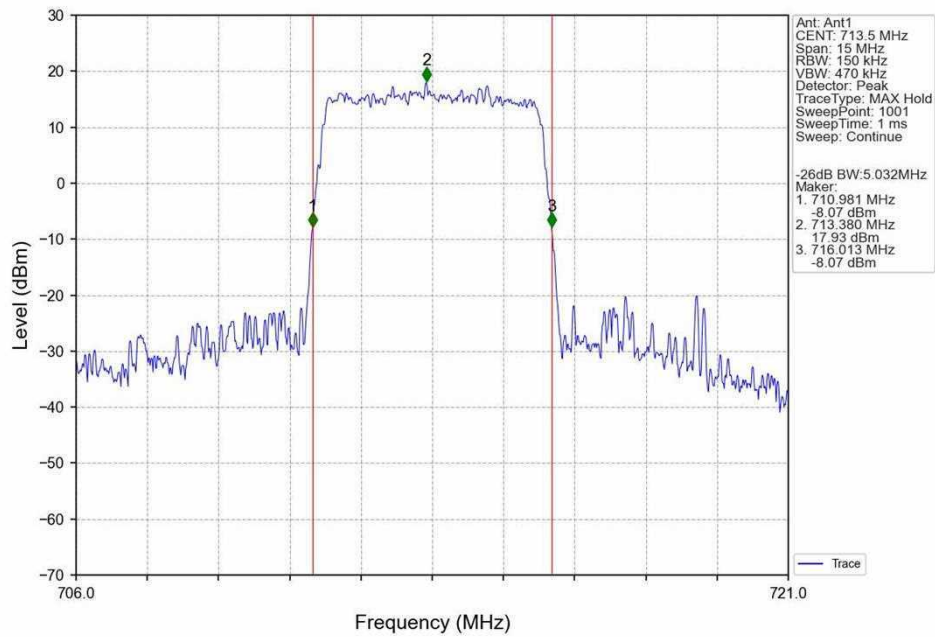
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



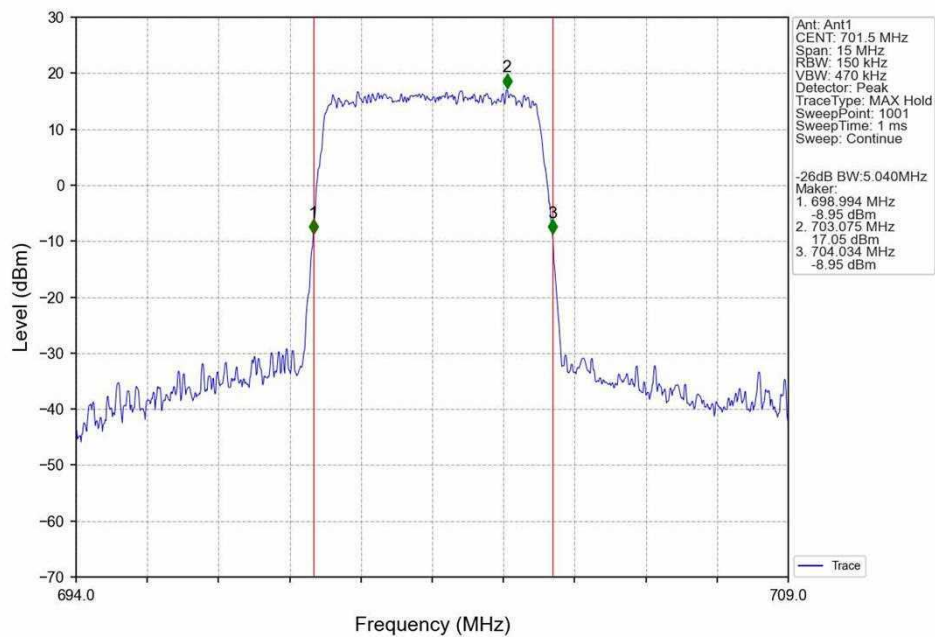
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



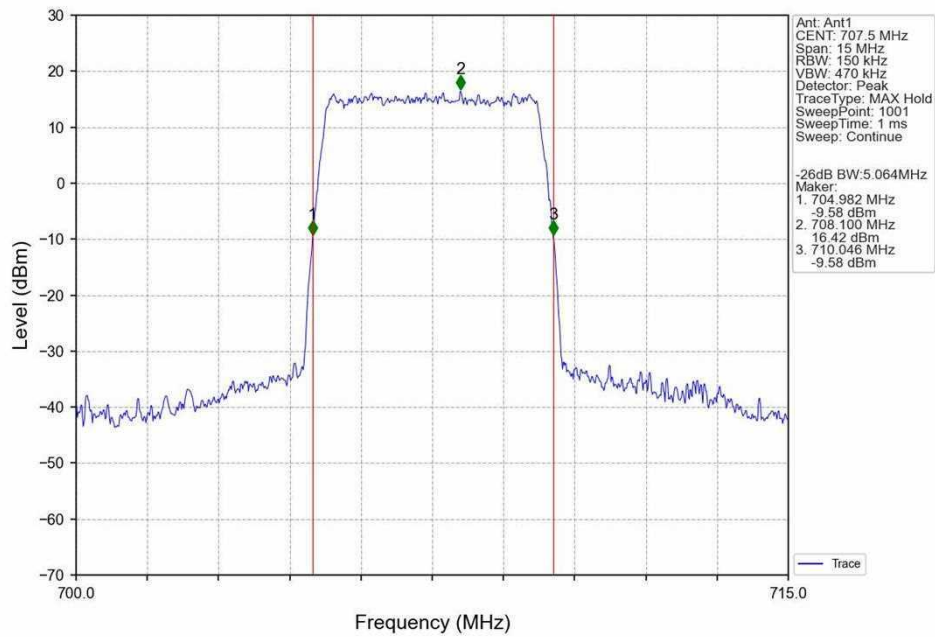
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



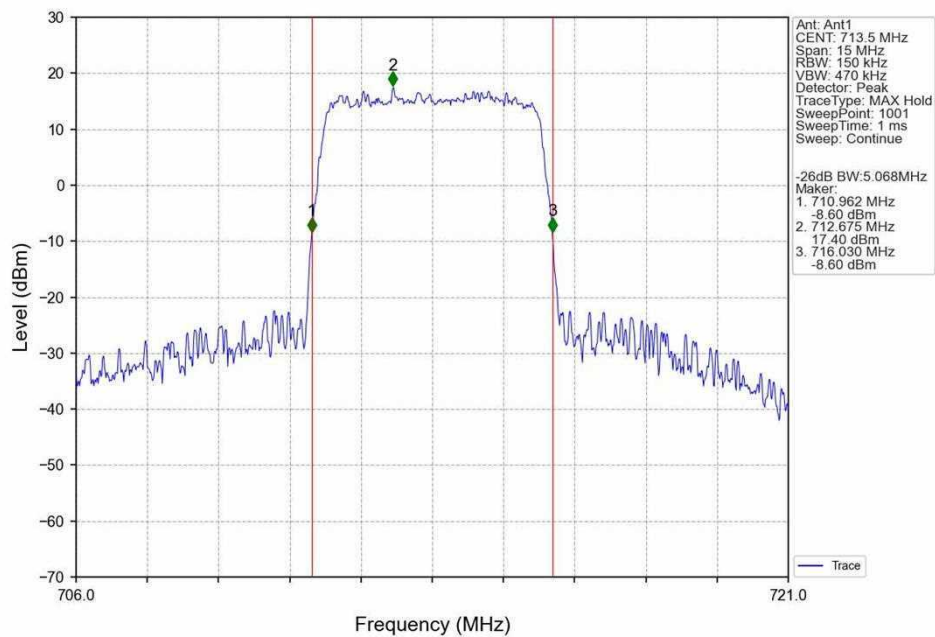
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



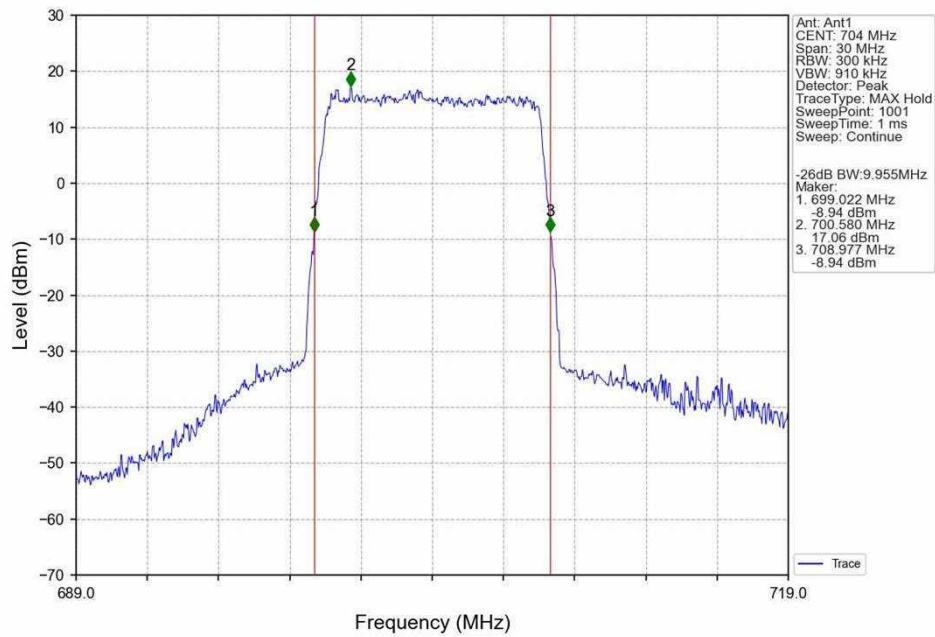
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



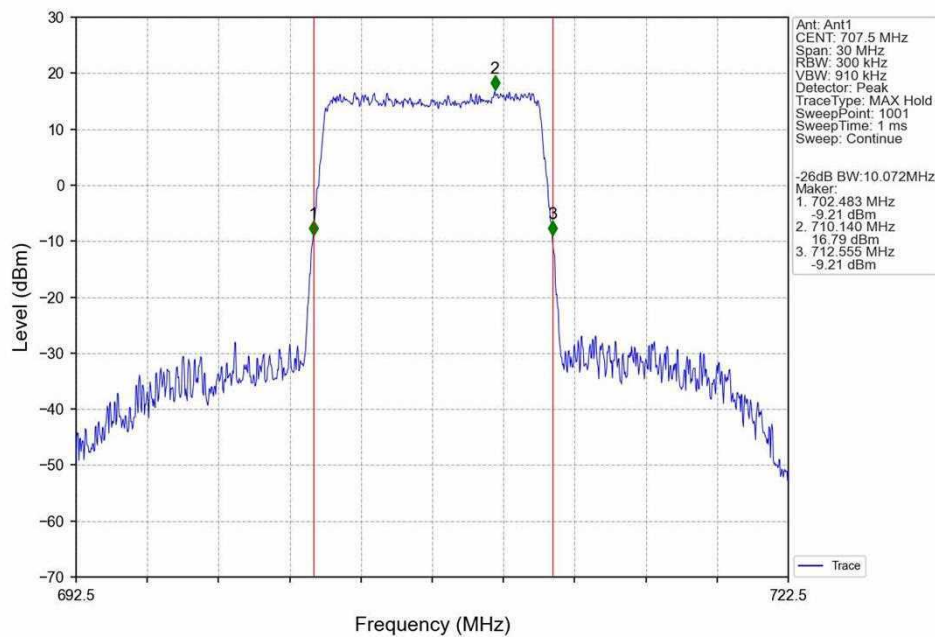
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



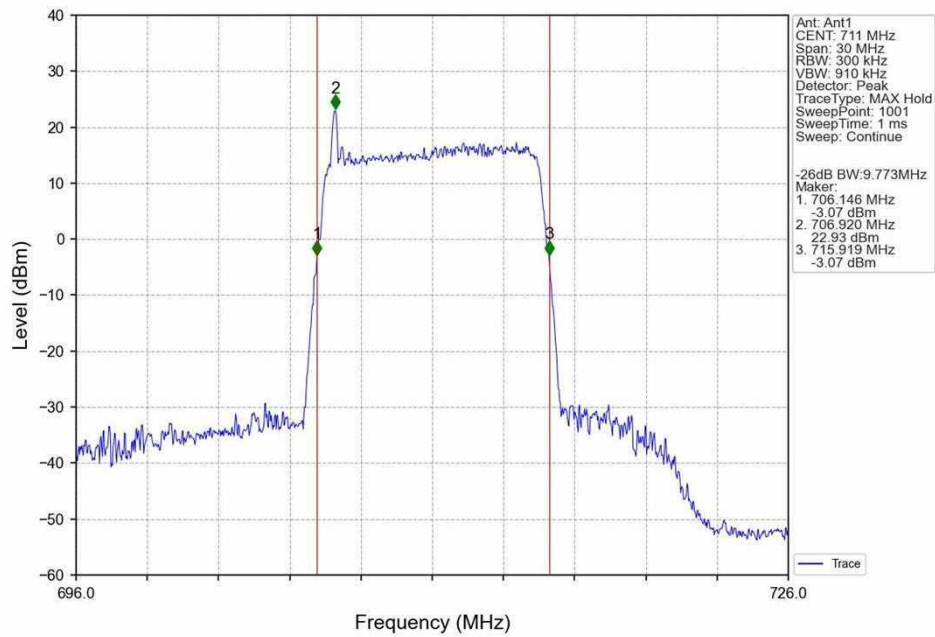
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



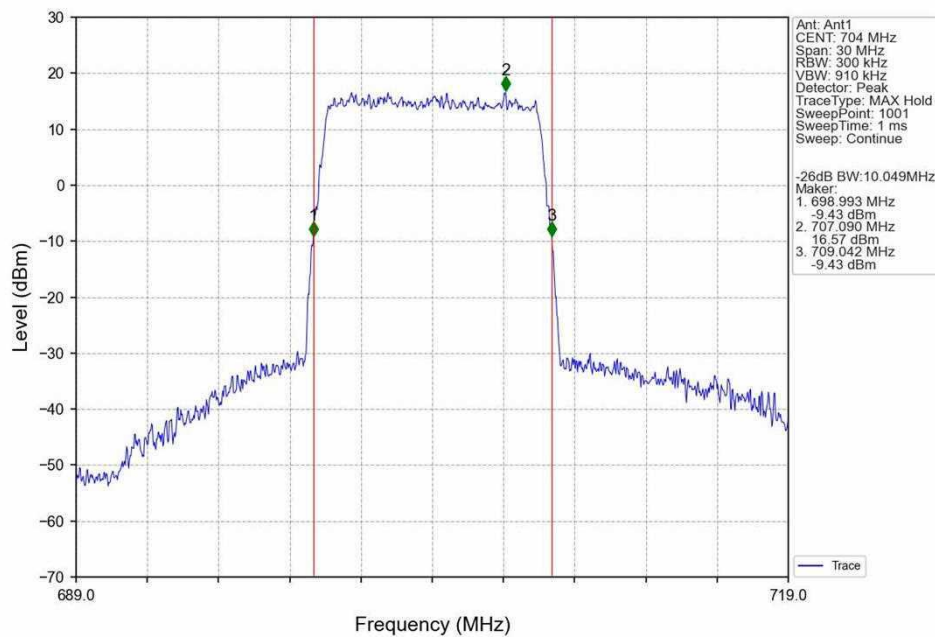
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



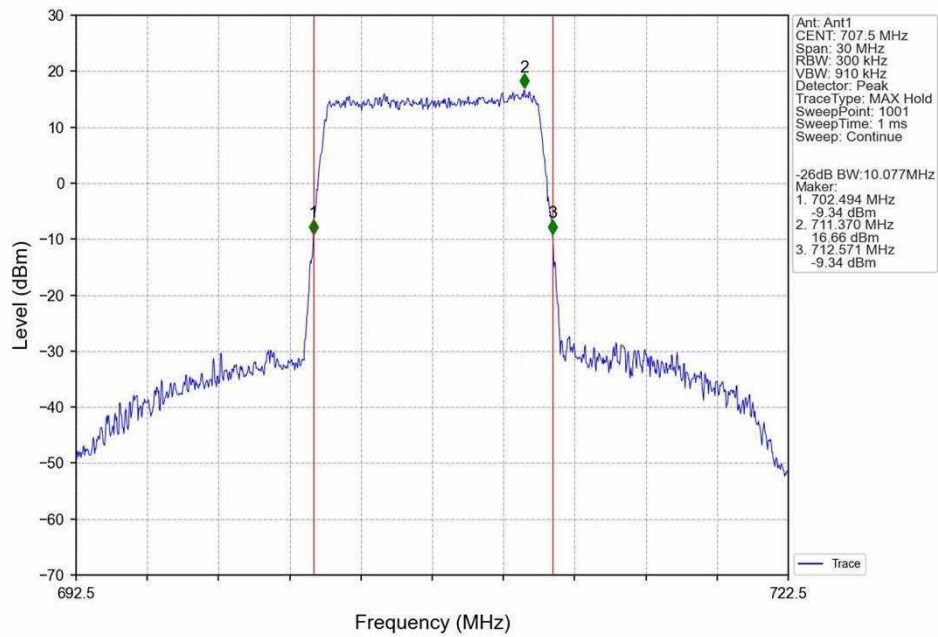
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



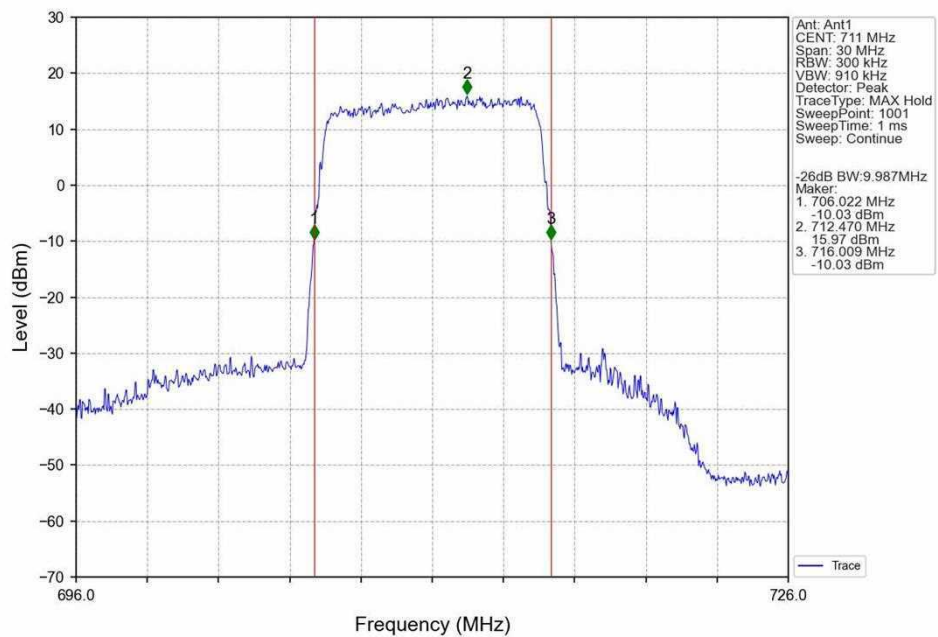
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.70	≤ 13	Pass
	707.5	6	0	5.72	≤ 13	Pass
	715.3	6	0	5.36	≤ 13	Pass
16QAM	699.7	6	0	6.40	≤ 13	Pass
	707.5	6	0	6.55	≤ 13	Pass
	715.3	6	0	6.02	≤ 13	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.69	≤ 13	Pass
	707.5	15	0	5.73	≤ 13	Pass
	714.5	15	0	5.47	≤ 13	Pass
16QAM	700.5	15	0	5.69	≤ 13	Pass
	707.5	15	0	5.73	≤ 13	Pass
	714.5	15	0	5.43	≤ 13	Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.68	≤ 13	Pass
	707.5	25	0	5.77	≤ 13	Pass
	713.5	25	0	5.55	≤ 13	Pass
16QAM	701.5	25	0	6.38	≤ 13	Pass
	707.5	25	0	6.51	≤ 13	Pass
	713.5	25	0	6.31	≤ 13	Pass

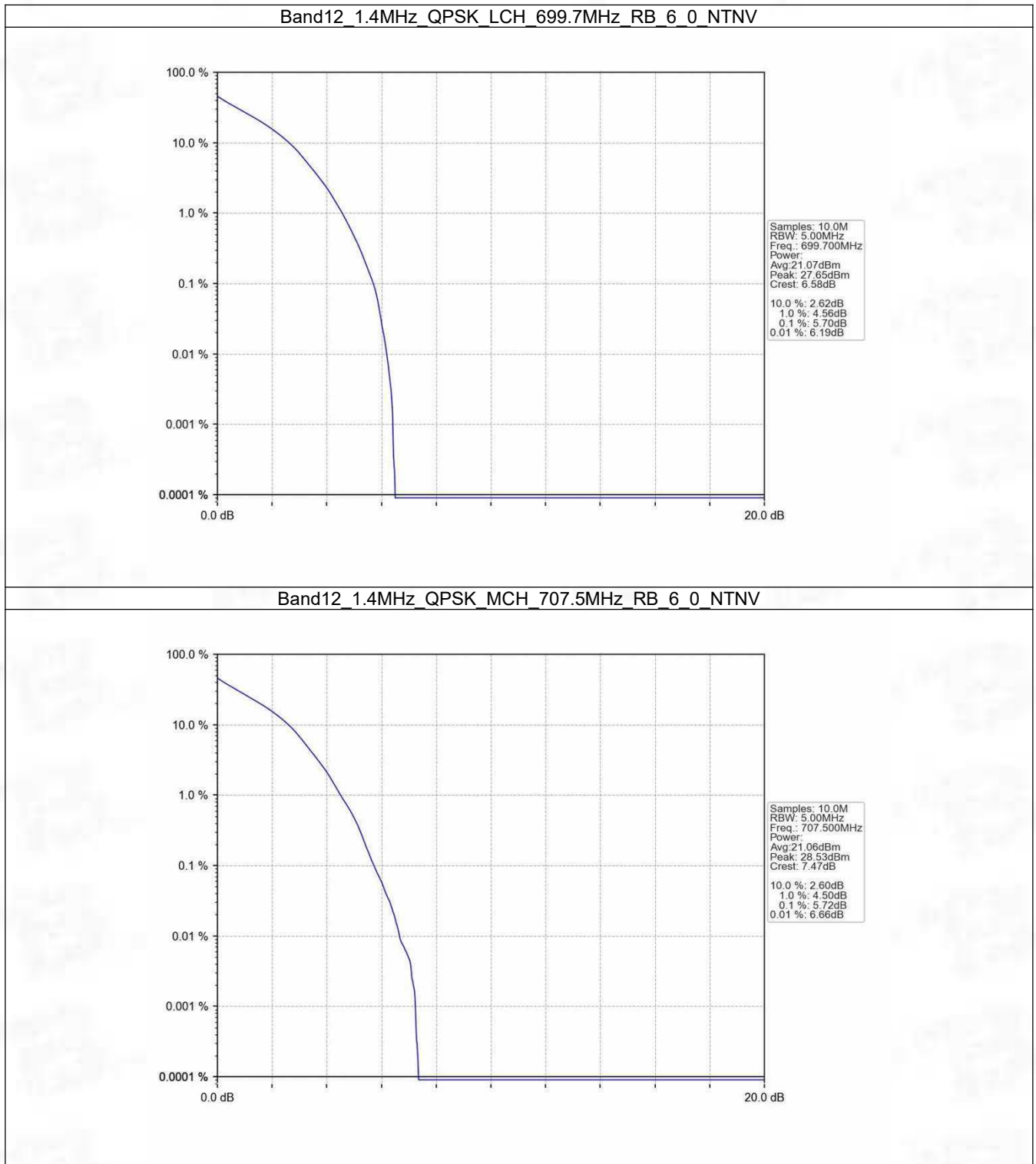
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.71	≤ 13	Pass
	707.5	50	0	5.84	≤ 13	Pass
	711	50	0	5.67	≤ 13	Pass
16QAM	704	50	0	5.72	≤ 13	Pass
	707.5	50	0	5.83	≤ 13	Pass

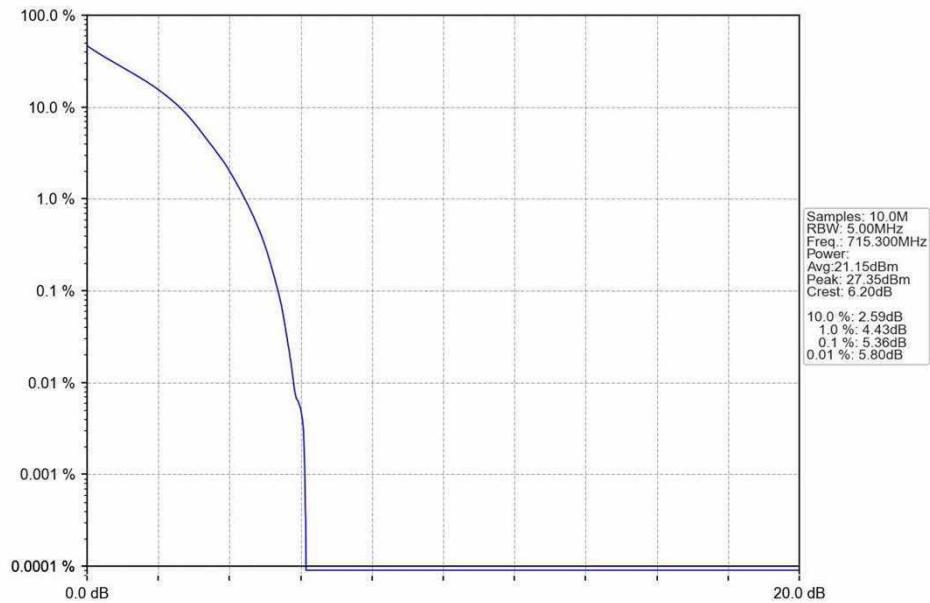
	711	50	0	5.67	<=13	Pass
--	-----	----	---	------	------	------

5.2 Test Graph

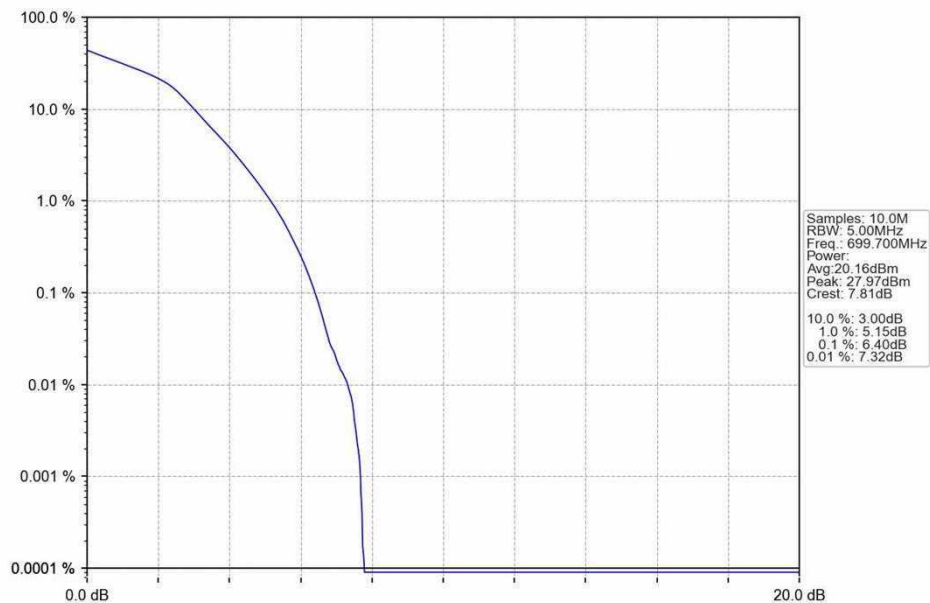
5.2.1 B12_1.4MHz



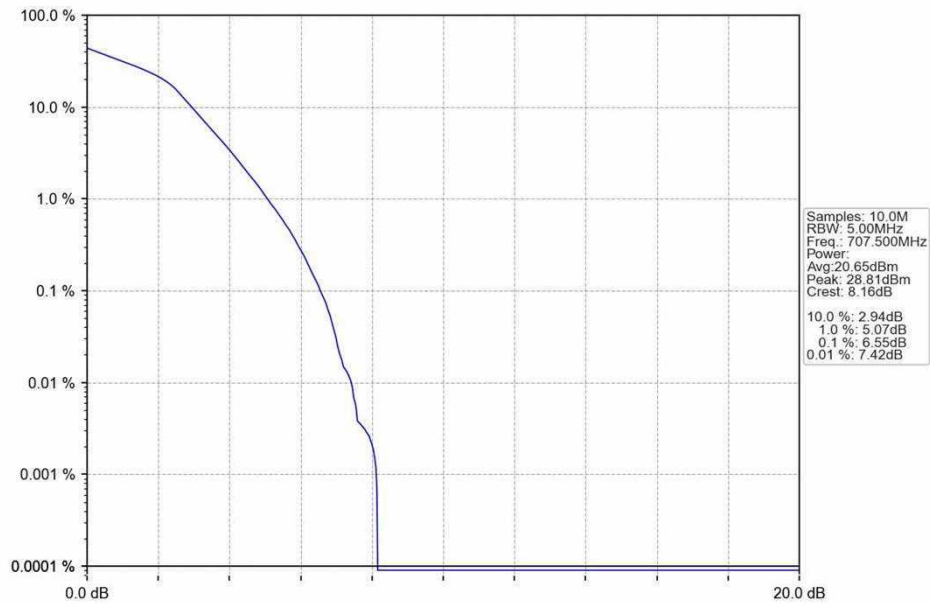
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



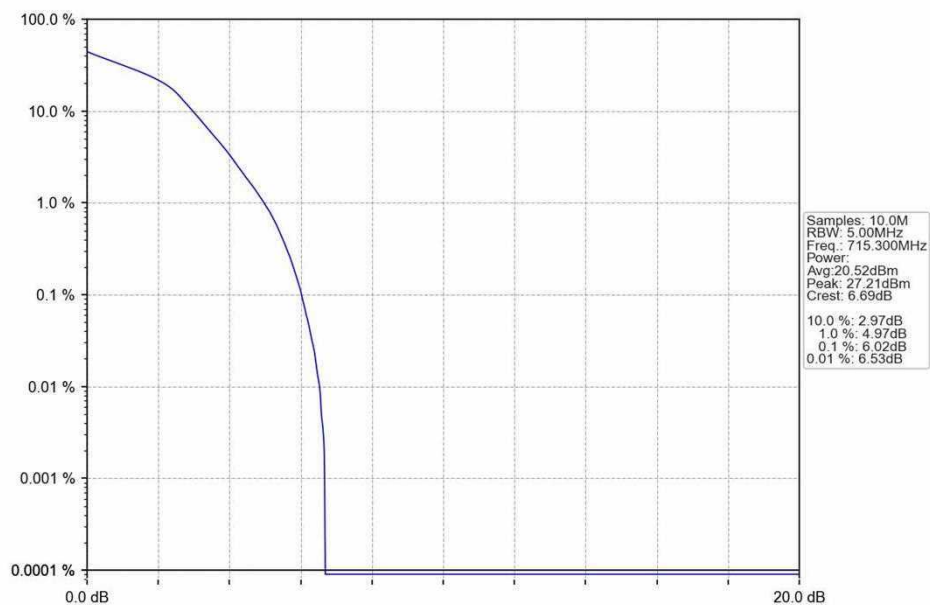
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



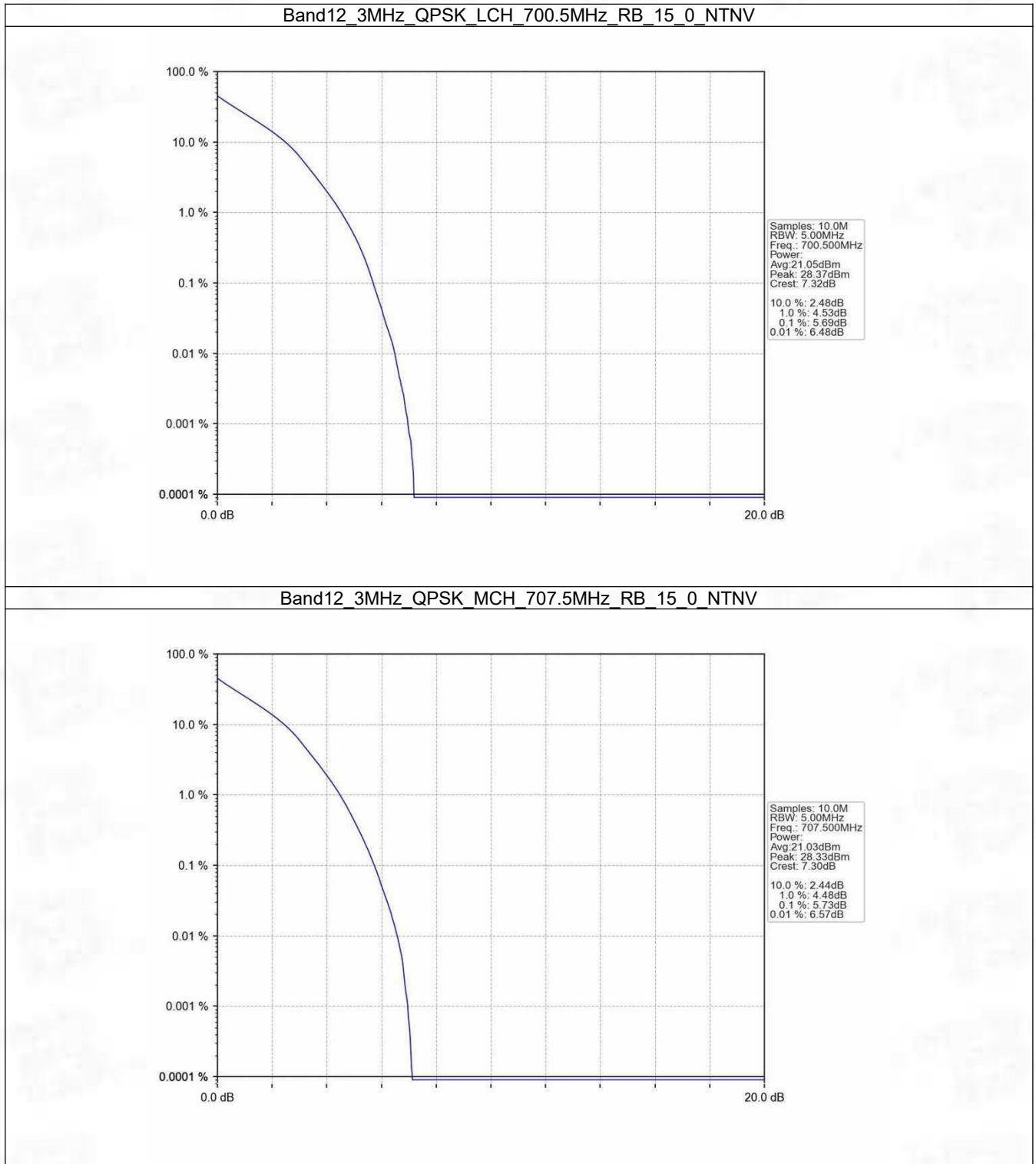
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



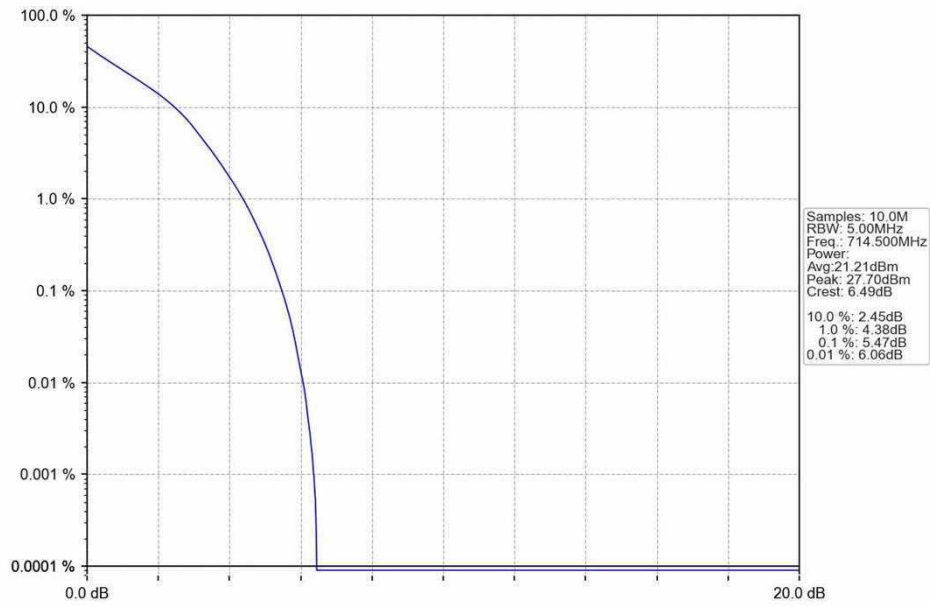
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



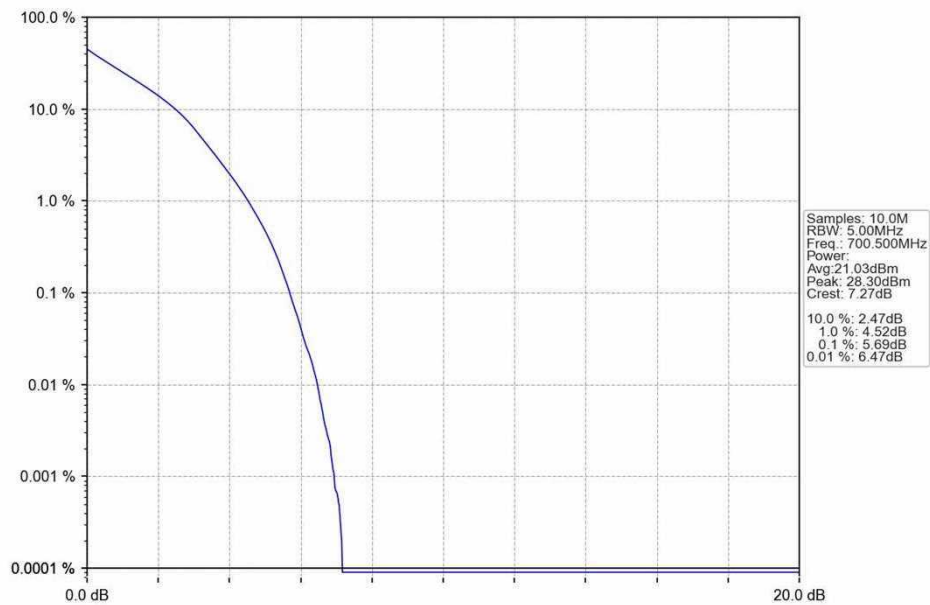
5.2.2 B12_3MHz



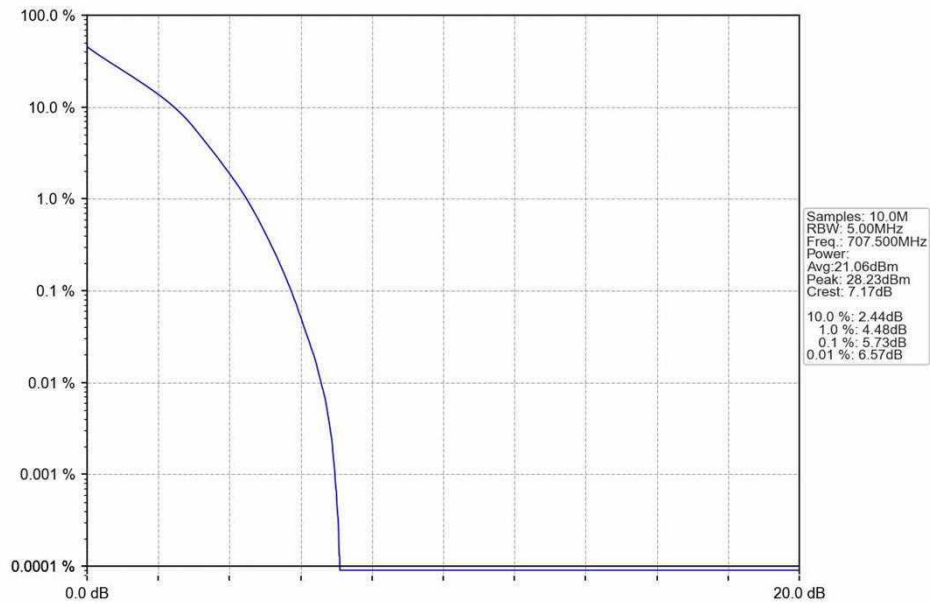
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



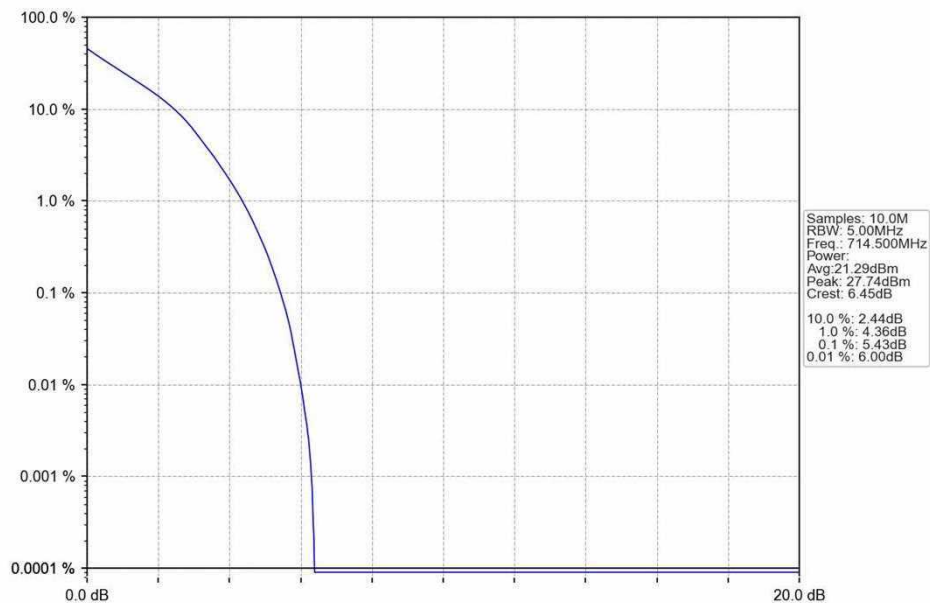
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



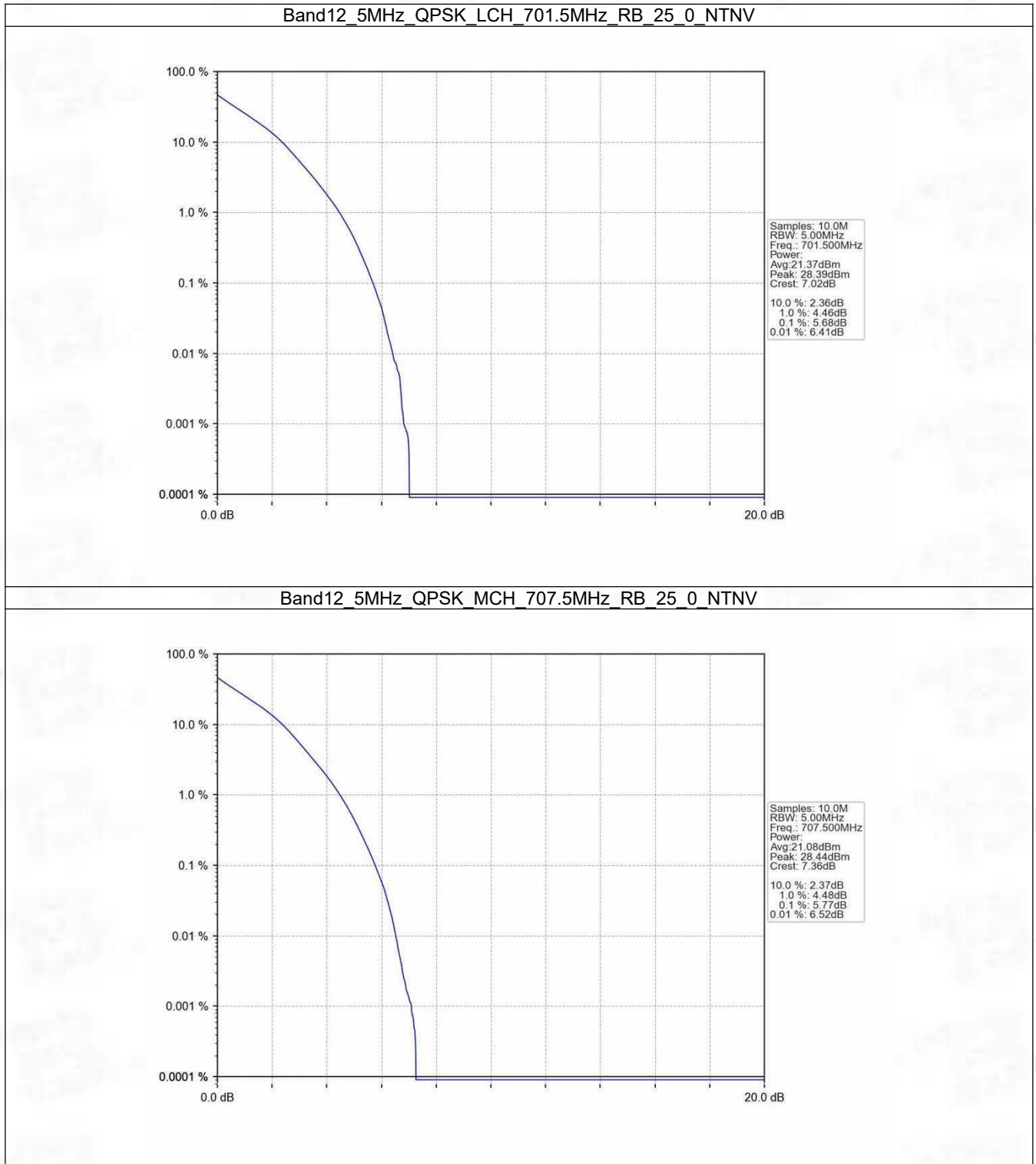
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



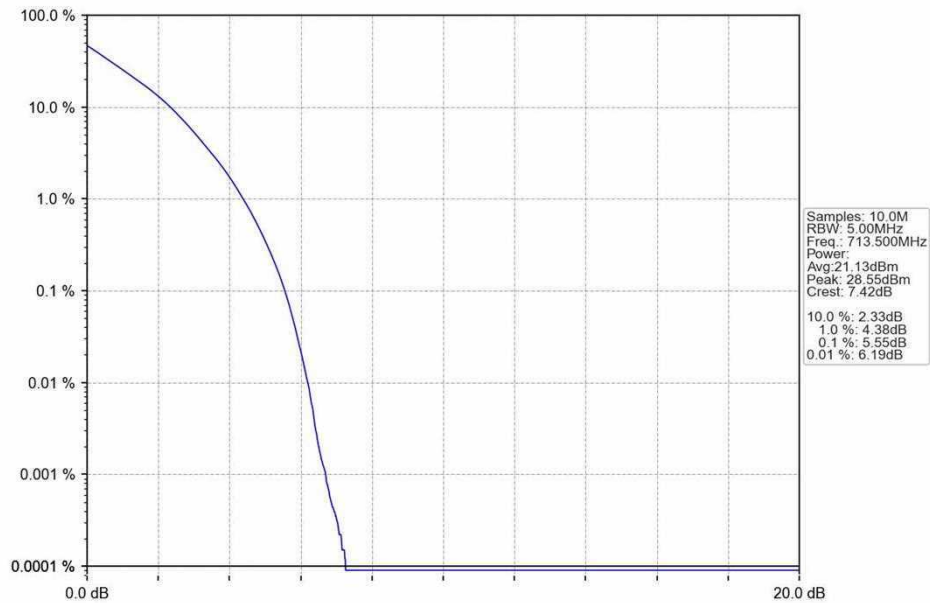
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



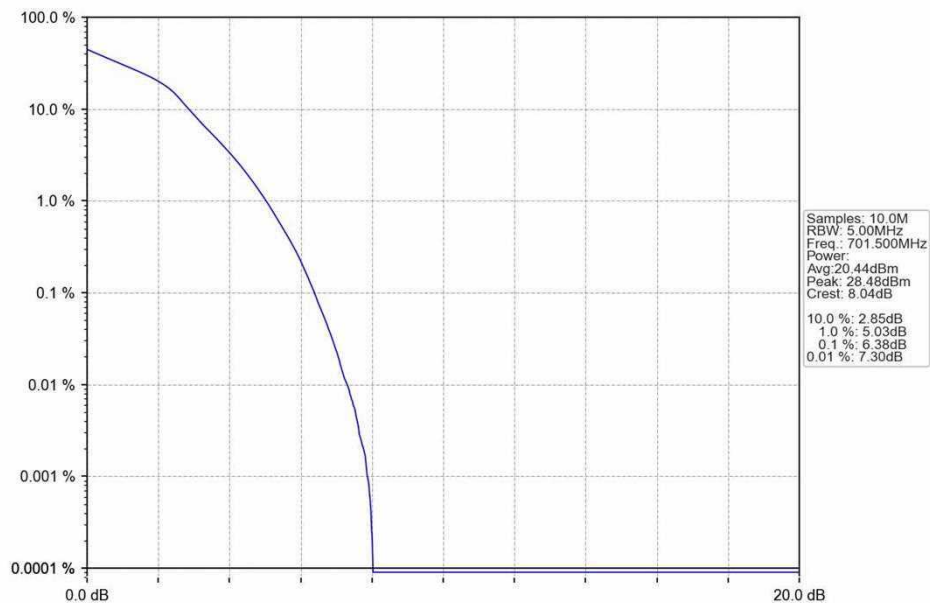
5.2.3 B12_5MHz



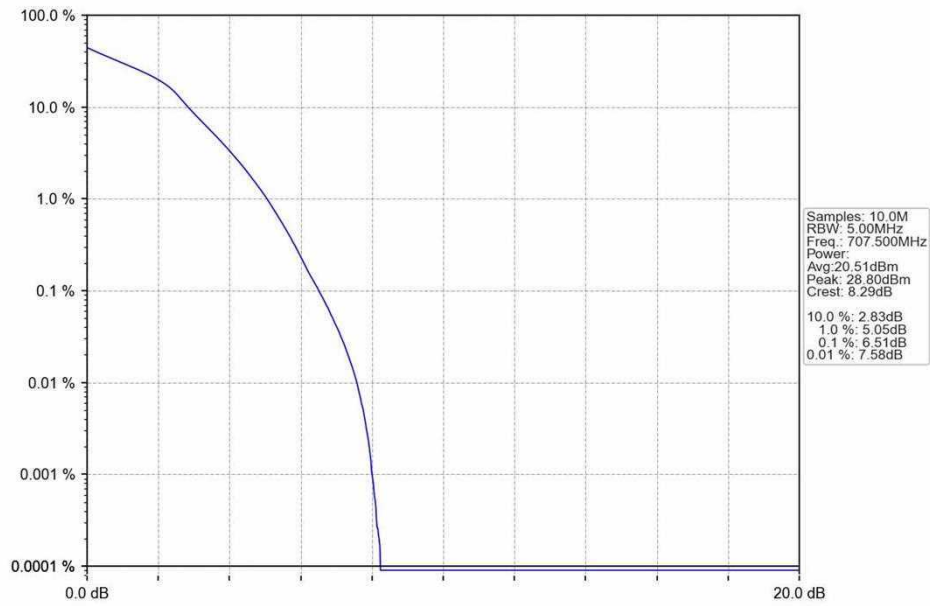
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



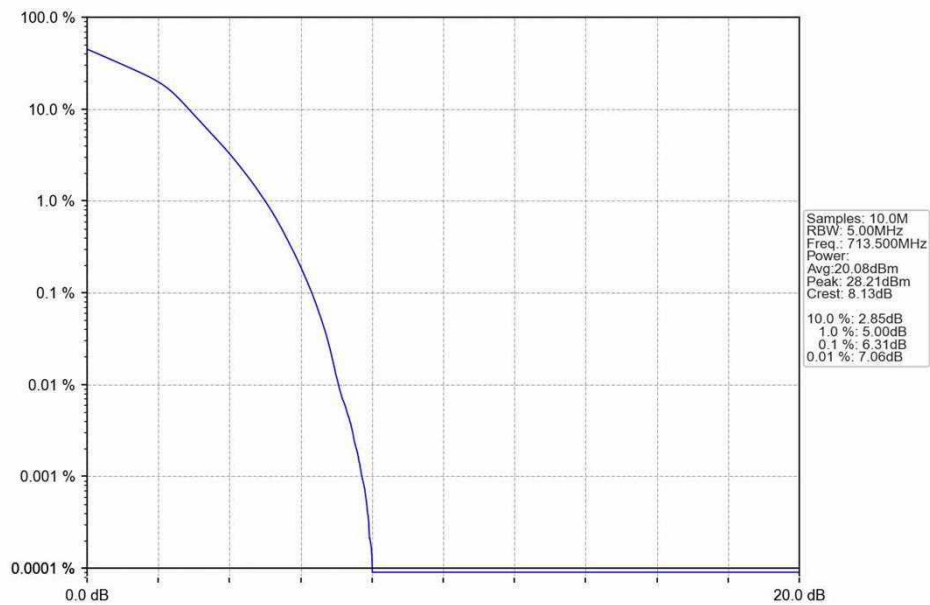
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



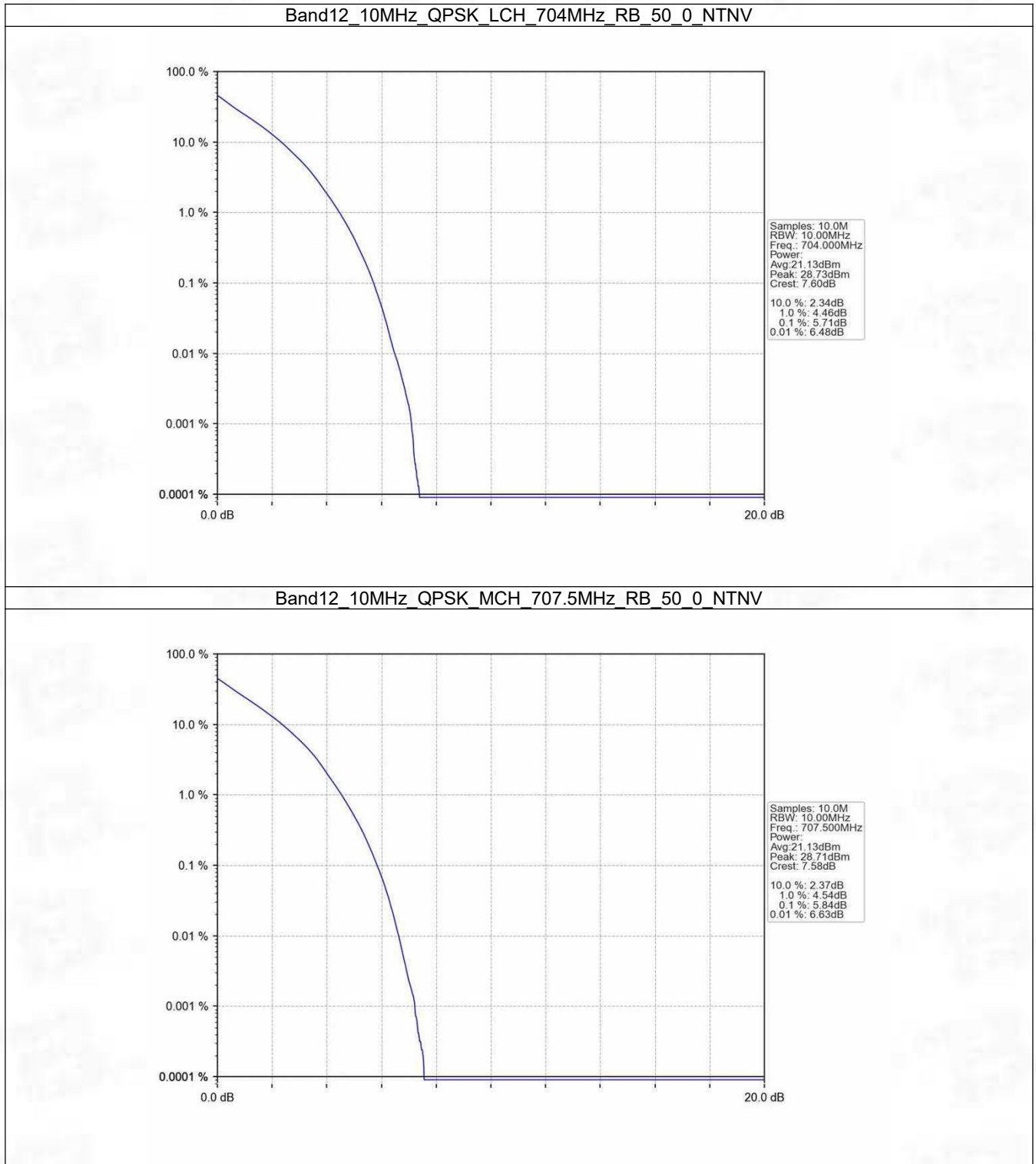
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



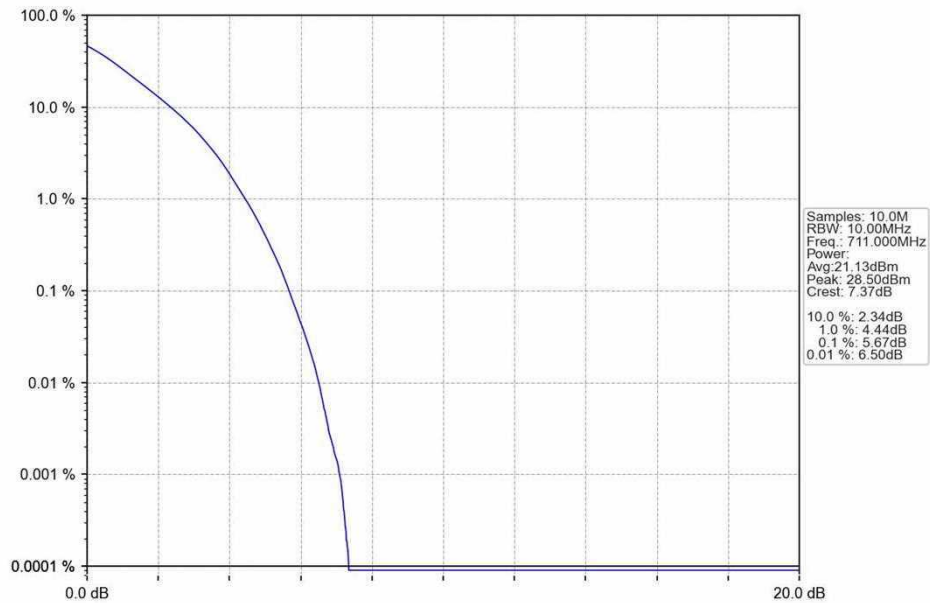
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



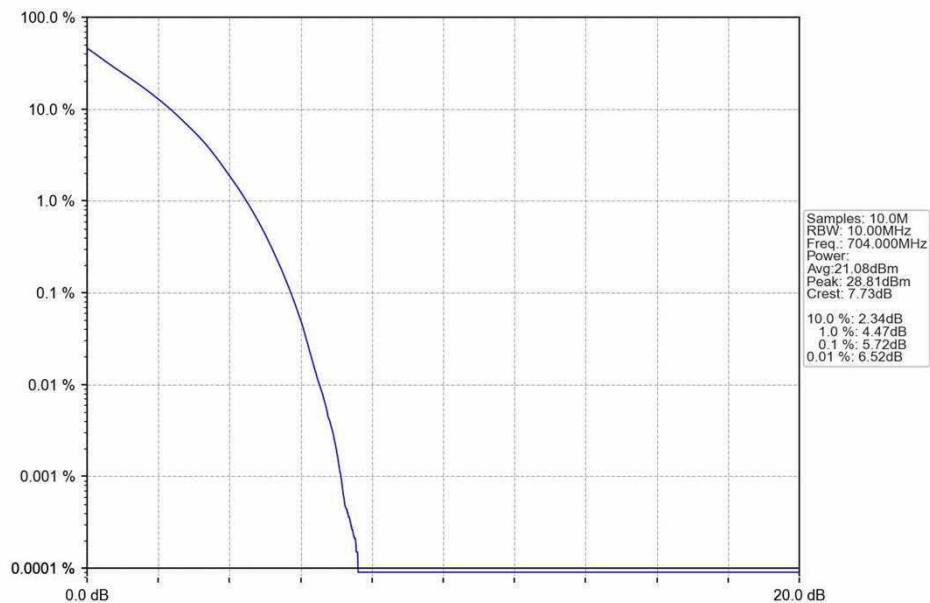
5.2.4 B12_10MHz



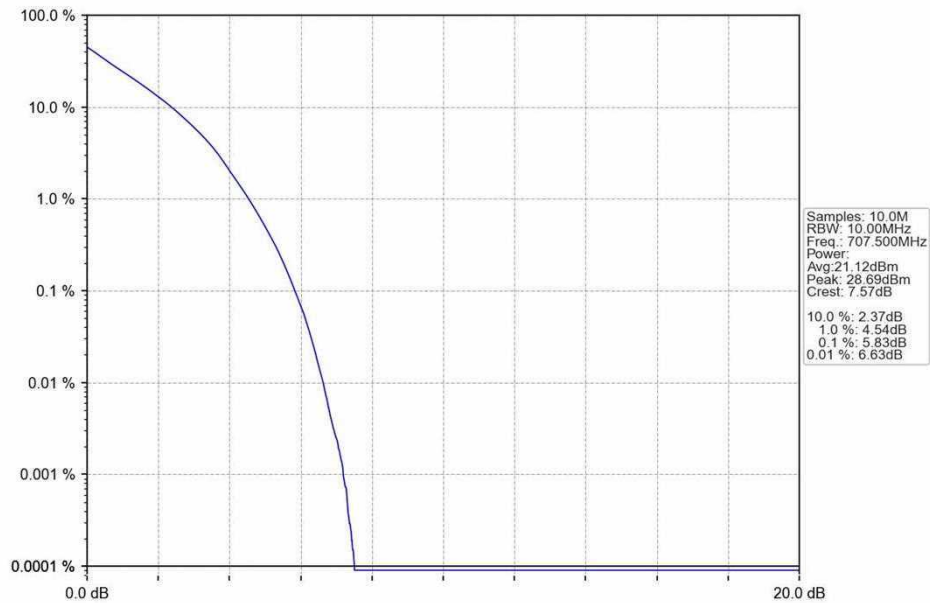
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



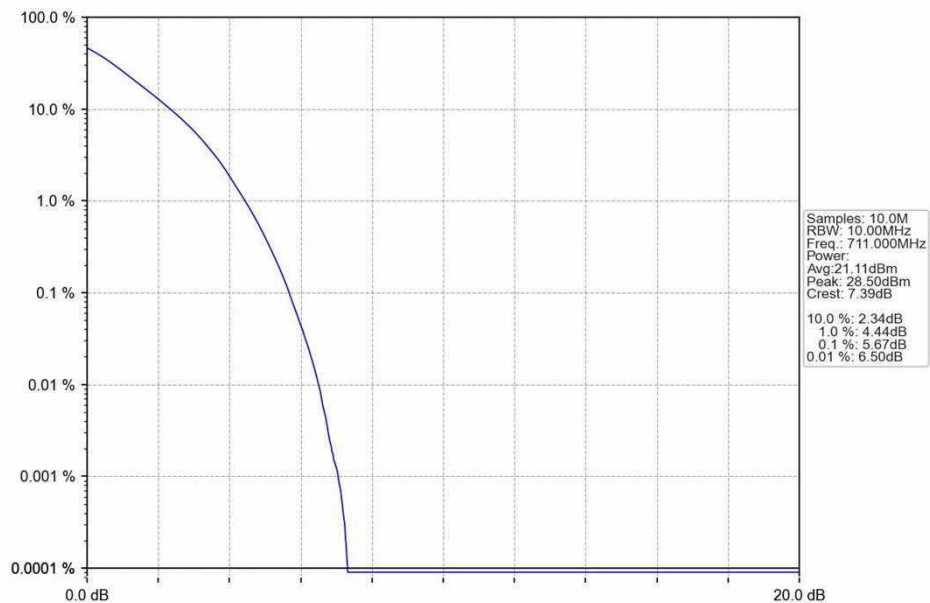
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	699.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	715.3	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
16QAM	699.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	715.3	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass

6.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	700.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	714.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
16QAM	700.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	714.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass

6.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	701.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
16QAM	701.5	1	0	Refer To Test Graph	Pass

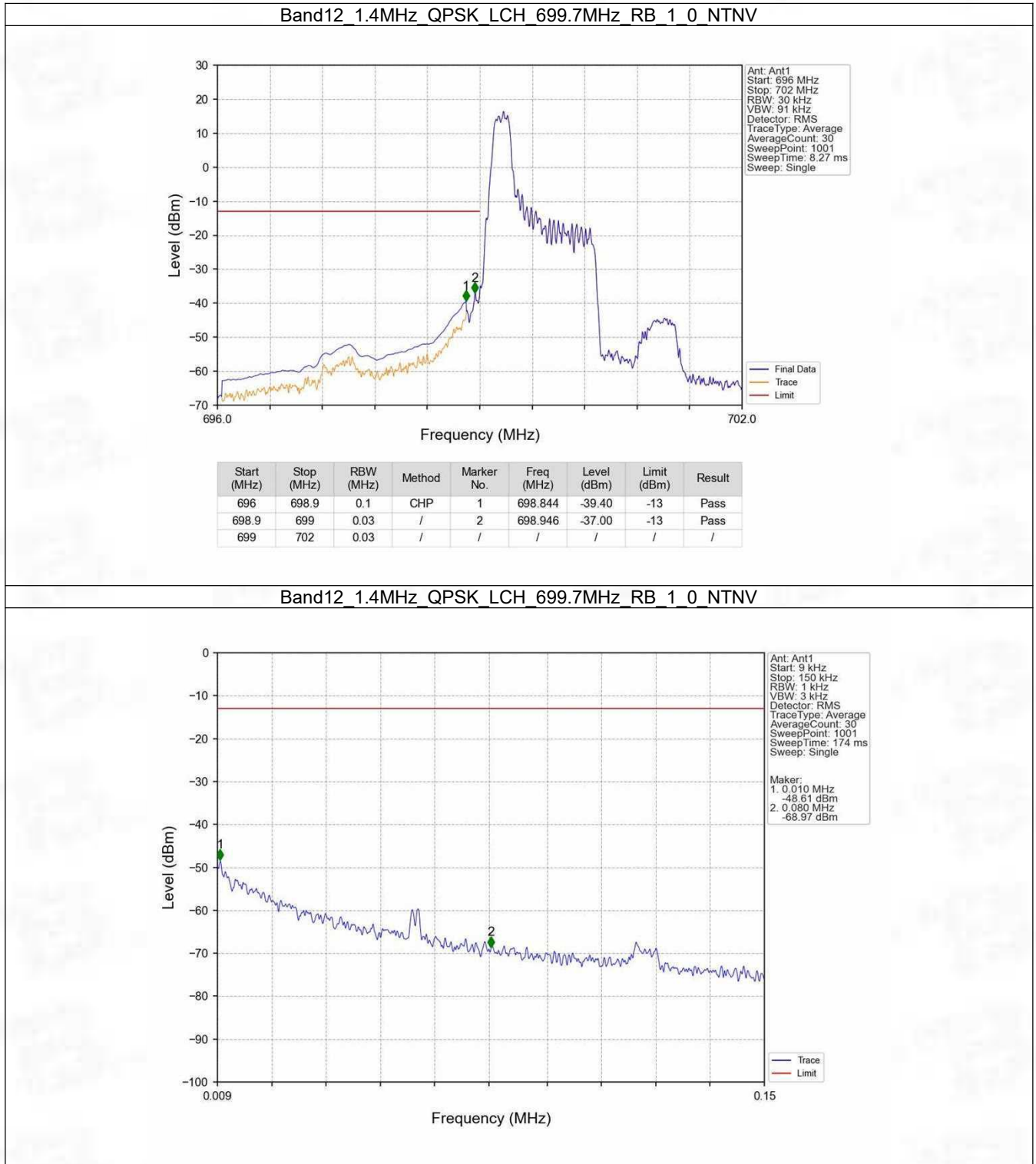
	707.5	25	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B12_10MHz

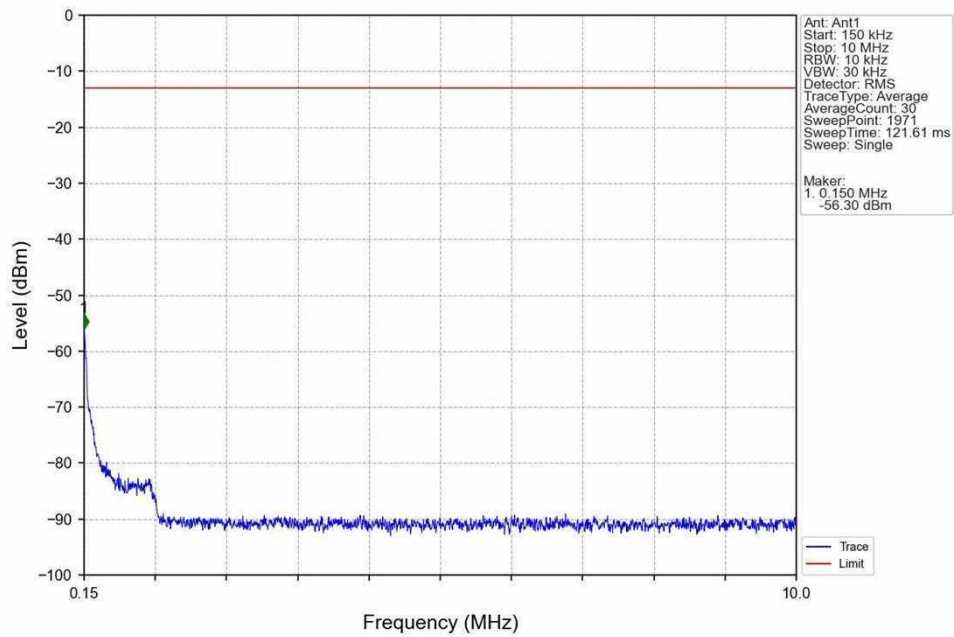
Band: 12 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	704	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	704	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

6.2 Test Graph

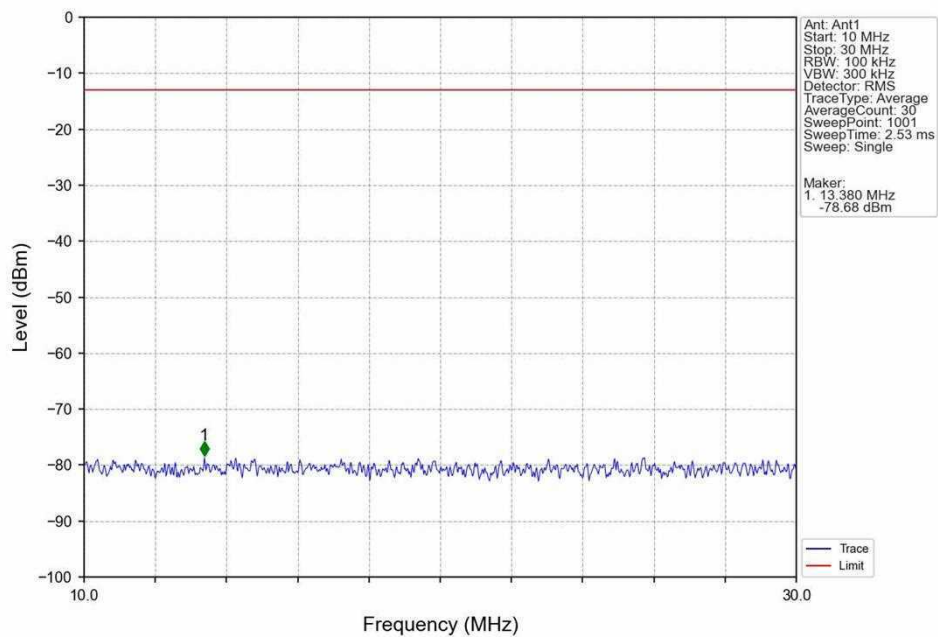
6.2.1 B12_1.4MHz



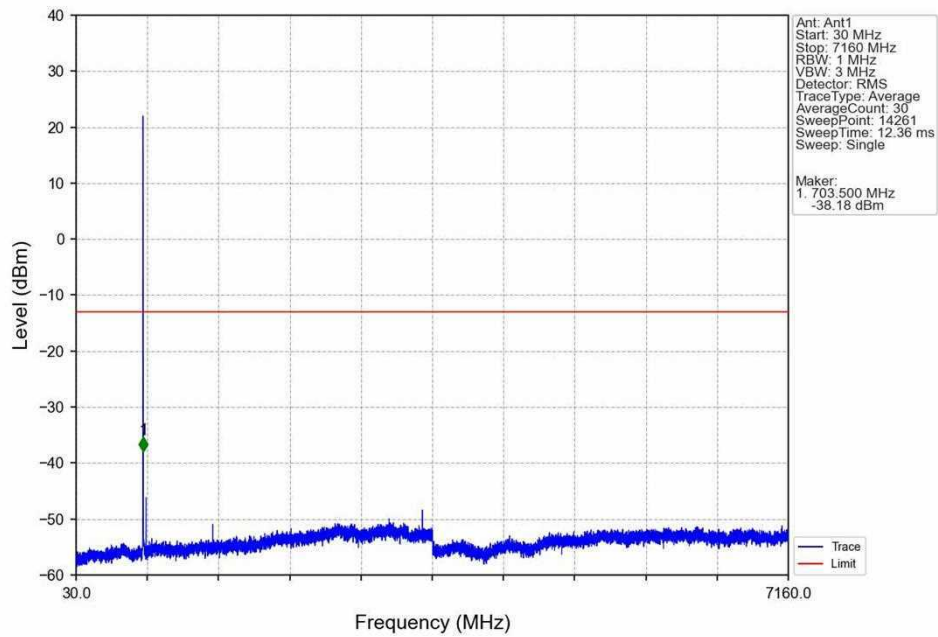
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



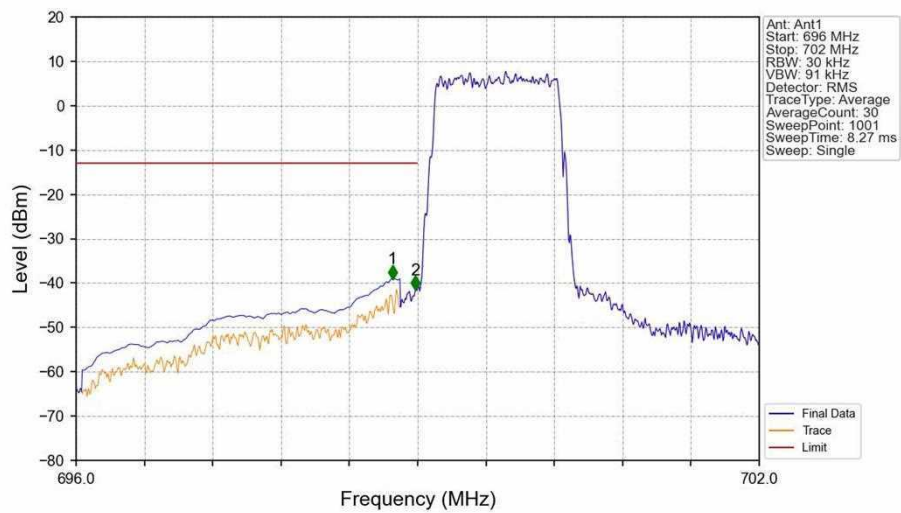
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

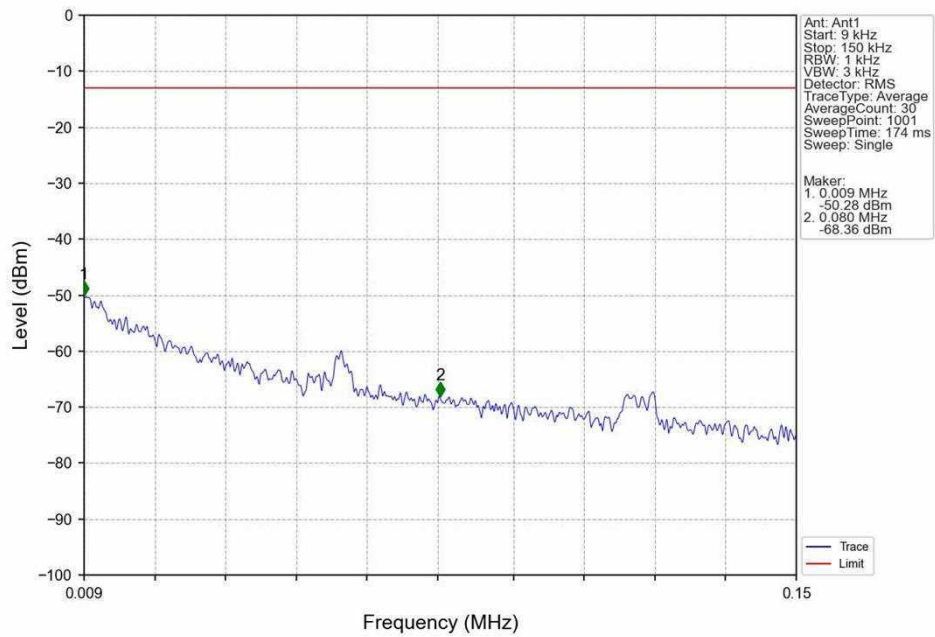


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.778	-39.05	-13	Pass
698.9	699	0.03	/	2	698.982	-41.43	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

