

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	21.34	3.00	22.19	<=34.77	Pass
			2	21.36	3.00	22.21	<=34.77	Pass
			5	21.23	3.00	22.08	<=34.77	Pass
		3	0	21.39	3.00	22.24	<=34.77	Pass
			2	21.42	3.00	22.27	<=34.77	Pass
			3	21.39	3.00	22.24	<=34.77	Pass
		6	0	20.33	3.00	21.18	<=34.77	Pass
	707.5	1	0	21.36	3.00	22.21	<=34.77	Pass
			2	21.45	3.00	22.30	<=34.77	Pass
			5	21.34	3.00	22.19	<=34.77	Pass
		3	0	21.48	3.00	22.33	<=34.77	Pass
			2	21.48	3.00	22.33	<=34.77	Pass
			3	21.49	3.00	22.34	<=34.77	Pass
		6	0	20.35	3.00	21.20	<=34.77	Pass
	715.3	1	0	21.26	3.00	22.11	<=34.77	Pass
			2	21.36	3.00	22.21	<=34.77	Pass
			5	21.27	3.00	22.12	<=34.77	Pass
		3	0	21.40	3.00	22.25	<=34.77	Pass
			2	21.41	3.00	22.26	<=34.77	Pass
			3	21.38	3.00	22.23	<=34.77	Pass
		6	0	20.30	3.00	21.15	<=34.77	Pass
16QAM	699.7	1	0	20.50	3.00	21.35	<=34.77	Pass
			2	20.57	3.00	21.42	<=34.77	Pass
			5	20.50	3.00	21.35	<=34.77	Pass
		3	0	20.45	3.00	21.30	<=34.77	Pass
			2	20.46	3.00	21.31	<=34.77	Pass
			3	20.46	3.00	21.31	<=34.77	Pass
		6	0	19.41	3.00	20.26	<=34.77	Pass
	707.5	1	0	20.34	3.00	21.19	<=34.77	Pass
			2	20.45	3.00	21.30	<=34.77	Pass
			5	20.42	3.00	21.27	<=34.77	Pass
		3	0	20.53	3.00	21.38	<=34.77	Pass
			2	20.52	3.00	21.37	<=34.77	Pass
			3	20.53	3.00	21.38	<=34.77	Pass
		6	0	19.32	3.00	20.17	<=34.77	Pass
	715.3	1	0	20.27	3.00	21.12	<=34.77	Pass
			2	20.35	3.00	21.20	<=34.77	Pass
			5	20.26	3.00	21.11	<=34.77	Pass
		3	0	20.52	3.00	21.37	<=34.77	Pass
			2	20.55	3.00	21.40	<=34.77	Pass
			3	20.51	3.00	21.36	<=34.77	Pass
		6	0	19.33	3.00	20.18	<=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 / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	21.42	3.00	22.27	<=34.77	Pass
			7	21.39	3.00	22.24	<=34.77	Pass
			14	21.43	3.00	22.28	<=34.77	Pass
		8	0	20.35	3.00	21.20	<=34.77	Pass
			4	20.43	3.00	21.28	<=34.77	Pass
			7	20.39	3.00	21.24	<=34.77	Pass
		15	0	20.45	3.00	21.30	<=34.77	Pass
	707.5	1	0	21.47	3.00	22.32	<=34.77	Pass
			7	21.58	3.00	22.43	<=34.77	Pass
			14	21.45	3.00	22.30	<=34.77	Pass
		8	0	20.45	3.00	21.30	<=34.77	Pass
			4	20.46	3.00	21.31	<=34.77	Pass
			7	20.38	3.00	21.23	<=34.77	Pass
		15	0	20.44	3.00	21.29	<=34.77	Pass
	714.5	1	0	21.45	3.00	22.30	<=34.77	Pass
			7	21.59	3.00	22.44	<=34.77	Pass
			14	21.41	3.00	22.26	<=34.77	Pass
		8	0	20.35	3.00	21.20	<=34.77	Pass
			4	20.42	3.00	21.27	<=34.77	Pass
			7	20.33	3.00	21.18	<=34.77	Pass
		15	0	20.37	3.00	21.22	<=34.77	Pass
16QAM	700.5	1	0	21.16	3.00	22.01	<=34.77	Pass
			7	21.18	3.00	22.03	<=34.77	Pass
			14	21.07	3.00	21.92	<=34.77	Pass
		8	0	19.59	3.00	20.44	<=34.77	Pass
			4	19.68	3.00	20.53	<=34.77	Pass
			7	19.64	3.00	20.49	<=34.77	Pass
		15	0	19.57	3.00	20.42	<=34.77	Pass
	707.5	1	0	20.64	3.00	21.49	<=34.77	Pass
			7	20.74	3.00	21.59	<=34.77	Pass
			14	20.60	3.00	21.45	<=34.77	Pass
		8	0	19.47	3.00	20.32	<=34.77	Pass
			4	19.50	3.00	20.35	<=34.77	Pass
			7	19.42	3.00	20.27	<=34.77	Pass
		15	0	19.45	3.00	20.30	<=34.77	Pass
	714.5	1	0	20.48	3.00	21.33	<=34.77	Pass
			7	20.59	3.00	21.44	<=34.77	Pass
			14	20.40	3.00	21.25	<=34.77	Pass
		8	0	19.49	3.00	20.34	<=34.77	Pass
			4	19.52	3.00	20.37	<=34.77	Pass
			7	19.44	3.00	20.29	<=34.77	Pass
		15	0	19.46	3.00	20.31	<=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	21.34	3.00	22.19	<=34.77	Pass
			13	21.47	3.00	22.32	<=34.77	Pass
			24	21.34	3.00	22.19	<=34.77	Pass
		12	0	20.24	3.00	21.09	<=34.77	Pass
			6	20.37	3.00	21.22	<=34.77	Pass
			13	20.42	3.00	21.27	<=34.77	Pass
		25	0	20.31	3.00	21.16	<=34.77	Pass
	707.5	1	0	21.35	3.00	22.20	<=34.77	Pass
			13	21.42	3.00	22.27	<=34.77	Pass
			24	21.28	3.00	22.13	<=34.77	Pass
		12	0	20.41	3.00	21.26	<=34.77	Pass
			6	20.41	3.00	21.26	<=34.77	Pass
			13	20.31	3.00	21.16	<=34.77	Pass
		25	0	20.39	3.00	21.24	<=34.77	Pass
	713.5	1	0	21.31	3.00	22.16	<=34.77	Pass
			13	21.42	3.00	22.27	<=34.77	Pass
			24	21.26	3.00	22.11	<=34.77	Pass
		12	0	20.24	3.00	21.09	<=34.77	Pass
			6	20.38	3.00	21.23	<=34.77	Pass
			13	20.25	3.00	21.10	<=34.77	Pass
		25	0	20.31	3.00	21.16	<=34.77	Pass
16QAM	701.5	1	0	20.17	3.00	21.02	<=34.77	Pass
			13	20.32	3.00	21.17	<=34.77	Pass
			24	20.18	3.00	21.03	<=34.77	Pass
		12	0	19.27	3.00	20.12	<=34.77	Pass
			6	19.43	3.00	20.28	<=34.77	Pass
			13	19.47	3.00	20.32	<=34.77	Pass
		25	0	19.41	3.00	20.26	<=34.77	Pass
	707.5	1	0	20.57	3.00	21.42	<=34.77	Pass
			13	20.67	3.00	21.52	<=34.77	Pass
			24	20.57	3.00	21.42	<=34.77	Pass
		12	0	19.53	3.00	20.38	<=34.77	Pass
			6	19.52	3.00	20.37	<=34.77	Pass
			13	19.39	3.00	20.24	<=34.77	Pass
		25	0	19.43	3.00	20.28	<=34.77	Pass
	713.5	1	0	20.41	3.00	21.26	<=34.77	Pass
			13	20.57	3.00	21.42	<=34.77	Pass
			24	20.36	3.00	21.21	<=34.77	Pass
		12	0	19.22	3.00	20.07	<=34.77	Pass
			6	19.41	3.00	20.26	<=34.77	Pass
			13	19.29	3.00	20.14	<=34.77	Pass
		25	0	19.36	3.00	20.21	<=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	21.18	3.00	22.03	<=34.77	Pass	
			25	21.57	3.00	22.42	<=34.77	Pass	
			49	21.35	3.00	22.20	<=34.77	Pass	
		25	0	20.26	3.00	21.11	<=34.77	Pass	
			13	20.49	3.00	21.34	<=34.77	Pass	
			25	20.37	3.00	21.22	<=34.77	Pass	
		50	0	20.35	3.00	21.20	<=34.77	Pass	
		707.5	1	0	21.32	3.00	22.17	<=34.77	Pass
				25	21.59	3.00	22.44	<=34.77	Pass
	49			21.33	3.00	22.18	<=34.77	Pass	
	25		0	20.46	3.00	21.31	<=34.77	Pass	
			13	20.47	3.00	21.32	<=34.77	Pass	
			25	20.45	3.00	21.30	<=34.77	Pass	
	50	0	20.53	3.00	21.38	<=34.77	Pass		
	711	1	0	21.34	3.00	22.19	<=34.77	Pass	
			25	21.56	3.00	22.41	<=34.77	Pass	
			49	21.36	3.00	22.21	<=34.77	Pass	
		25	0	20.51	3.00	21.36	<=34.77	Pass	
			13	20.51	3.00	21.36	<=34.77	Pass	
			25	20.60	3.00	21.45	<=34.77	Pass	
		50	0	20.57	3.00	21.42	<=34.77	Pass	
16QAM		704	1	0	20.93	3.00	21.78	<=34.77	Pass
				25	21.18	3.00	22.03	<=34.77	Pass
	49			20.92	3.00	21.77	<=34.77	Pass	
	25		0	19.39	3.00	20.24	<=34.77	Pass	
			13	19.57	3.00	20.42	<=34.77	Pass	
			25	19.46	3.00	20.31	<=34.77	Pass	
	50		0	19.39	3.00	20.24	<=34.77	Pass	
	707.5		1	0	20.48	3.00	21.33	<=34.77	Pass
				25	20.73	3.00	21.58	<=34.77	Pass
		49		20.49	3.00	21.34	<=34.77	Pass	
		25	0	19.52	3.00	20.37	<=34.77	Pass	
			13	19.53	3.00	20.38	<=34.77	Pass	
			25	19.52	3.00	20.37	<=34.77	Pass	
	50	0	19.53	3.00	20.38	<=34.77	Pass		
	711	1	0	20.37	3.00	21.22	<=34.77	Pass	
			25	20.62	3.00	21.47	<=34.77	Pass	
			49	20.34	3.00	21.19	<=34.77	Pass	
		25	0	19.64	3.00	20.49	<=34.77	Pass	
			13	19.63	3.00	20.48	<=34.77	Pass	
			25	19.76	3.00	20.61	<=34.77	Pass	
		50	0	19.63	3.00	20.48	<=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	3.30	-10.357	-0.0148	-2.5 to 2.5	Pass
					3.70	-3.705	-0.0053	-2.5 to 2.5	Pass
					4.00	-4.764	-0.0068	-2.5 to 2.5	Pass
				-30	3.70	-1.316	-0.0019	-2.5 to 2.5	Pass
				-20	3.70	-1.502	-0.0021	-2.5 to 2.5	Pass
				-10	3.70	-4.363	-0.0062	-2.5 to 2.5	Pass
				0	3.70	-1.402	-0.0020	-2.5 to 2.5	Pass
				10	3.70	-4.363	-0.0062	-2.5 to 2.5	Pass
				30	3.70	-7.095	-0.0101	-2.5 to 2.5	Pass
				40	3.70	-4.377	-0.0063	-2.5 to 2.5	Pass
				50	3.70	-5.665	-0.0081	-2.5 to 2.5	Pass
	707.5	6	0	20	3.30	-3.076	-0.0043	-2.5 to 2.5	Pass
					3.70	-8.068	-0.0114	-2.5 to 2.5	Pass
					4.00	-5.522	-0.0078	-2.5 to 2.5	Pass
				-30	3.70	-5.722	-0.0081	-2.5 to 2.5	Pass
				-20	3.70	-3.233	-0.0046	-2.5 to 2.5	Pass
				-10	3.70	-3.848	-0.0054	-2.5 to 2.5	Pass
				0	3.70	-9.770	-0.0138	-2.5 to 2.5	Pass
				10	3.70	-5.035	-0.0071	-2.5 to 2.5	Pass
				30	3.70	-9.413	-0.0133	-2.5 to 2.5	Pass
				40	3.70	-5.364	-0.0076	-2.5 to 2.5	Pass
				50	3.70	-6.852	-0.0097	-2.5 to 2.5	Pass
	715.3	6	0	20	3.30	-5.622	-0.0079	-2.5 to 2.5	Pass
					3.70	-8.025	-0.0112	-2.5 to 2.5	Pass
					4.00	-3.891	-0.0054	-2.5 to 2.5	Pass
				-30	3.70	1.159	0.0016	-2.5 to 2.5	Pass
				-20	3.70	-2.332	-0.0033	-2.5 to 2.5	Pass
				-10	3.70	-5.794	-0.0081	-2.5 to 2.5	Pass
				0	3.70	-5.593	-0.0078	-2.5 to 2.5	Pass
				10	3.70	-10.128	-0.0142	-2.5 to 2.5	Pass
				30	3.70	-8.755	-0.0122	-2.5 to 2.5	Pass
				40	3.70	-3.862	-0.0054	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.30	-5.879	-0.0084	-2.5 to 2.5	Pass
					3.70	-7.911	-0.0113	-2.5 to 2.5	Pass
					4.00	-10.171	-0.0145	-2.5 to 2.5	Pass
				-30	3.70	-10.471	-0.0150	-2.5 to 2.5	Pass
				-20	3.70	-9.499	-0.0136	-2.5 to 2.5	Pass
				-10	3.70	-9.441	-0.0135	-2.5 to 2.5	Pass
				0	3.70	-8.512	-0.0122	-2.5 to 2.5	Pass
				10	3.70	-6.866	-0.0098	-2.5 to 2.5	Pass
				30	3.70	-6.194	-0.0089	-2.5 to 2.5	Pass
				40	3.70	-5.836	-0.0083	-2.5 to 2.5	Pass
				50	3.70	-7.796	-0.0111	-2.5 to 2.5	Pass
	707.5	6	0	20	3.30	-6.638	-0.0094	-2.5 to 2.5	Pass
					3.70	-2.747	-0.0039	-2.5 to 2.5	Pass
					4.00	-11.616	-0.0164	-2.5 to 2.5	Pass
				-30	3.70	-5.822	-0.0082	-2.5 to 2.5	Pass
				-20	3.70	-5.980	-0.0085	-2.5 to 2.5	Pass
				-10	3.70	-4.749	-0.0067	-2.5 to 2.5	Pass
				0	3.70	-8.283	-0.0117	-2.5 to 2.5	Pass
				10	3.70	-4.807	-0.0068	-2.5 to 2.5	Pass
				30	3.70	-4.778	-0.0068	-2.5 to 2.5	Pass

	715.3	6	0	40	3.70	-3.076	-0.0043	-2.5 to 2.5	Pass
				50	3.70	-4.406	-0.0062	-2.5 to 2.5	Pass
				20	3.30	-2.918	-0.0041	-2.5 to 2.5	Pass
					3.70	-7.067	-0.0099	-2.5 to 2.5	Pass
					4.00	-6.237	-0.0087	-2.5 to 2.5	Pass
				-30	3.70	-9.184	-0.0128	-2.5 to 2.5	Pass
				-20	3.70	-3.405	-0.0048	-2.5 to 2.5	Pass
				-10	3.70	-3.290	-0.0046	-2.5 to 2.5	Pass
				0	3.70	-1.273	-0.0018	-2.5 to 2.5	Pass
				10	3.70	-6.824	-0.0095	-2.5 to 2.5	Pass
				30	3.70	-6.323	-0.0088	-2.5 to 2.5	Pass
				40	3.70	-8.655	-0.0121	-2.5 to 2.5	Pass
				50	3.70	-7.653	-0.0107	-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	3.30	-11.129	-0.0159	-2.5 to 2.5	Pass
					3.70	-4.964	-0.0071	-2.5 to 2.5	Pass
					4.00	-4.091	-0.0058	-2.5 to 2.5	Pass
				-30	3.70	-8.869	-0.0127	-2.5 to 2.5	Pass
				-20	3.70	-3.977	-0.0057	-2.5 to 2.5	Pass
				-10	3.70	-4.392	-0.0063	-2.5 to 2.5	Pass
				0	3.70	-5.465	-0.0078	-2.5 to 2.5	Pass
				10	3.70	-4.163	-0.0059	-2.5 to 2.5	Pass
				30	3.70	-6.781	-0.0097	-2.5 to 2.5	Pass
				40	3.70	-6.466	-0.0092	-2.5 to 2.5	Pass
				50	3.70	-4.263	-0.0061	-2.5 to 2.5	Pass
	707.5	15	0	20	3.30	-7.911	-0.0112	-2.5 to 2.5	Pass
					3.70	-10.743	-0.0152	-2.5 to 2.5	Pass
					4.00	-4.506	-0.0064	-2.5 to 2.5	Pass
				-30	3.70	-4.048	-0.0057	-2.5 to 2.5	Pass
				-20	3.70	-4.864	-0.0069	-2.5 to 2.5	Pass
				-10	3.70	-3.462	-0.0049	-2.5 to 2.5	Pass
				0	3.70	0.215	0.0003	-2.5 to 2.5	Pass
				10	3.70	-5.035	-0.0071	-2.5 to 2.5	Pass
				30	3.70	-3.862	-0.0055	-2.5 to 2.5	Pass
				40	3.70	-4.764	-0.0067	-2.5 to 2.5	Pass
				50	3.70	-5.579	-0.0079	-2.5 to 2.5	Pass
	714.5	15	0	20	3.30	-3.948	-0.0055	-2.5 to 2.5	Pass
					3.70	0.072	0.0001	-2.5 to 2.5	Pass
					4.00	-1.302	-0.0018	-2.5 to 2.5	Pass
				-30	3.70	-5.150	-0.0072	-2.5 to 2.5	Pass
				-20	3.70	-3.262	-0.0046	-2.5 to 2.5	Pass
				-10	3.70	-6.552	-0.0092	-2.5 to 2.5	Pass
				0	3.70	-6.237	-0.0087	-2.5 to 2.5	Pass
				10	3.70	-5.078	-0.0071	-2.5 to 2.5	Pass
				30	3.70	-2.890	-0.0040	-2.5 to 2.5	Pass
				40	3.70	-4.292	-0.0060	-2.5 to 2.5	Pass
				50	3.70	-4.420	-0.0062	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.30	-4.249	-0.0061	-2.5 to 2.5	Pass
					3.70	-5.779	-0.0082	-2.5 to 2.5	Pass
					4.00	-4.420	-0.0063	-2.5 to 2.5	Pass

				-30	3.70	-1.659	-0.0024	-2.5 to 2.5	Pass
				-20	3.70	-7.911	-0.0113	-2.5 to 2.5	Pass
				-10	3.70	-5.636	-0.0080	-2.5 to 2.5	Pass
				0	3.70	-7.725	-0.0110	-2.5 to 2.5	Pass
				10	3.70	-7.267	-0.0104	-2.5 to 2.5	Pass
				30	3.70	-8.354	-0.0119	-2.5 to 2.5	Pass
				40	3.70	-7.639	-0.0109	-2.5 to 2.5	Pass
				50	3.70	-9.470	-0.0135	-2.5 to 2.5	Pass
	707.5	15	0	20	3.30	-4.292	-0.0061	-2.5 to 2.5	Pass
					3.70	-6.452	-0.0091	-2.5 to 2.5	Pass
					4.00	-5.407	-0.0076	-2.5 to 2.5	Pass
				-30	3.70	1.087	0.0015	-2.5 to 2.5	Pass
				-20	3.70	-3.719	-0.0053	-2.5 to 2.5	Pass
				-10	3.70	-4.034	-0.0057	-2.5 to 2.5	Pass
				0	3.70	-5.550	-0.0078	-2.5 to 2.5	Pass
				10	3.70	-6.094	-0.0086	-2.5 to 2.5	Pass
				30	3.70	-3.176	-0.0045	-2.5 to 2.5	Pass
				40	3.70	-2.403	-0.0034	-2.5 to 2.5	Pass
				50	3.70	-3.204	-0.0045	-2.5 to 2.5	Pass
	714.5	15	0	20	3.30	-1.330	-0.0019	-2.5 to 2.5	Pass
					3.70	-4.678	-0.0065	-2.5 to 2.5	Pass
					4.00	-7.696	-0.0108	-2.5 to 2.5	Pass
				-30	3.70	-8.597	-0.0120	-2.5 to 2.5	Pass
				-20	3.70	-3.862	-0.0054	-2.5 to 2.5	Pass
				-10	3.70	-10.486	-0.0147	-2.5 to 2.5	Pass
				0	3.70	-6.752	-0.0094	-2.5 to 2.5	Pass
				10	3.70	-8.569	-0.0120	-2.5 to 2.5	Pass
				30	3.70	-6.294	-0.0088	-2.5 to 2.5	Pass
				40	3.70	-5.264	-0.0074	-2.5 to 2.5	Pass
				50	3.70	-5.064	-0.0071	-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	3.30	-8.111	-0.0116	-2.5 to 2.5	Pass
					3.70	-5.879	-0.0084	-2.5 to 2.5	Pass
					4.00	-3.819	-0.0054	-2.5 to 2.5	Pass
				-30	3.70	-3.347	-0.0048	-2.5 to 2.5	Pass
				-20	3.70	-3.748	-0.0053	-2.5 to 2.5	Pass
				-10	3.70	-6.552	-0.0093	-2.5 to 2.5	Pass
				0	3.70	-5.579	-0.0080	-2.5 to 2.5	Pass
				10	3.70	-8.912	-0.0127	-2.5 to 2.5	Pass
				30	3.70	-2.589	-0.0037	-2.5 to 2.5	Pass
				40	3.70	-4.349	-0.0062	-2.5 to 2.5	Pass
				50	3.70	-3.548	-0.0051	-2.5 to 2.5	Pass
	707.5	25	0	20	3.30	-8.140	-0.0115	-2.5 to 2.5	Pass
					3.70	-6.824	-0.0096	-2.5 to 2.5	Pass
					4.00	-6.394	-0.0090	-2.5 to 2.5	Pass
				-30	3.70	-8.812	-0.0125	-2.5 to 2.5	Pass
				-20	3.70	-5.493	-0.0078	-2.5 to 2.5	Pass
				-10	3.70	-3.147	-0.0044	-2.5 to 2.5	Pass
				0	3.70	-5.908	-0.0084	-2.5 to 2.5	Pass
				10	3.70	-3.891	-0.0055	-2.5 to 2.5	Pass
				30	3.70	-3.819	-0.0054	-2.5 to 2.5	Pass
				40	3.70	-5.980	-0.0085	-2.5 to 2.5	Pass

16QAM	713.5	25	0	50	3.70	-2.418	-0.0034	-2.5 to 2.5	Pass
				20	3.30	-9.198	-0.0129	-2.5 to 2.5	Pass
					3.70	-5.779	-0.0081	-2.5 to 2.5	Pass
					4.00	-10.872	-0.0152	-2.5 to 2.5	Pass
				-30	3.70	-3.347	-0.0047	-2.5 to 2.5	Pass
				-20	3.70	-7.882	-0.0110	-2.5 to 2.5	Pass
				-10	3.70	-5.679	-0.0080	-2.5 to 2.5	Pass
				0	3.70	-7.653	-0.0107	-2.5 to 2.5	Pass
				10	3.70	-4.349	-0.0061	-2.5 to 2.5	Pass
				30	3.70	-3.891	-0.0055	-2.5 to 2.5	Pass
				40	3.70	-0.186	-0.0003	-2.5 to 2.5	Pass
				50	3.70	-4.292	-0.0060	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.30	-6.752	-0.0096	-2.5 to 2.5	Pass
					3.70	-5.479	-0.0078	-2.5 to 2.5	Pass
					4.00	-6.237	-0.0089	-2.5 to 2.5	Pass
				-30	3.70	-6.151	-0.0088	-2.5 to 2.5	Pass
				-20	3.70	-4.234	-0.0060	-2.5 to 2.5	Pass
				-10	3.70	-6.781	-0.0097	-2.5 to 2.5	Pass
				0	3.70	-7.410	-0.0106	-2.5 to 2.5	Pass
				10	3.70	-6.638	-0.0095	-2.5 to 2.5	Pass
				30	3.70	-11.015	-0.0157	-2.5 to 2.5	Pass
				40	3.70	-8.669	-0.0124	-2.5 to 2.5	Pass
				50	3.70	-11.358	-0.0162	-2.5 to 2.5	Pass
	707.5	25	0	20	3.30	-5.980	-0.0085	-2.5 to 2.5	Pass
					3.70	-2.375	-0.0034	-2.5 to 2.5	Pass
					4.00	-2.861	-0.0040	-2.5 to 2.5	Pass
				-30	3.70	-3.891	-0.0055	-2.5 to 2.5	Pass
				-20	3.70	-3.247	-0.0046	-2.5 to 2.5	Pass
				-10	3.70	-4.406	-0.0062	-2.5 to 2.5	Pass
				0	3.70	-7.124	-0.0101	-2.5 to 2.5	Pass
				10	3.70	-4.320	-0.0061	-2.5 to 2.5	Pass
				30	3.70	-5.994	-0.0085	-2.5 to 2.5	Pass
				40	3.70	-7.110	-0.0100	-2.5 to 2.5	Pass
				50	3.70	-8.082	-0.0114	-2.5 to 2.5	Pass
	713.5	25	0	20	3.30	-4.148	-0.0058	-2.5 to 2.5	Pass
					3.70	-3.462	-0.0049	-2.5 to 2.5	Pass
					4.00	-10.343	-0.0145	-2.5 to 2.5	Pass
				-30	3.70	-8.297	-0.0116	-2.5 to 2.5	Pass
				-20	3.70	-8.368	-0.0117	-2.5 to 2.5	Pass
				-10	3.70	-9.127	-0.0128	-2.5 to 2.5	Pass
				0	3.70	-7.381	-0.0103	-2.5 to 2.5	Pass
				10	3.70	-7.467	-0.0105	-2.5 to 2.5	Pass
				30	3.70	-8.154	-0.0114	-2.5 to 2.5	Pass
				40	3.70	-8.554	-0.0120	-2.5 to 2.5	Pass
				50	3.70	-8.240	-0.0115	-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	3.30	-8.726	-0.0124	-2.5 to 2.5	Pass
					3.70	-6.108	-0.0087	-2.5 to 2.5	Pass
					4.00	-3.061	-0.0043	-2.5 to 2.5	Pass
				-30	3.70	-5.622	-0.0080	-2.5 to 2.5	Pass

16QAM	707.5	50	0	-20	3.70	-8.068	-0.0115	-2.5 to 2.5	Pass
				-10	3.70	-4.921	-0.0070	-2.5 to 2.5	Pass
				0	3.70	-8.397	-0.0119	-2.5 to 2.5	Pass
				10	3.70	-3.306	-0.0047	-2.5 to 2.5	Pass
				30	3.70	-1.674	-0.0024	-2.5 to 2.5	Pass
				40	3.70	-5.150	-0.0073	-2.5 to 2.5	Pass
				50	3.70	-6.838	-0.0097	-2.5 to 2.5	Pass
	711	50	0	20	3.30	-2.518	-0.0036	-2.5 to 2.5	Pass
					3.70	-2.017	-0.0029	-2.5 to 2.5	Pass
					4.00	-5.908	-0.0084	-2.5 to 2.5	Pass
				-30	3.70	-5.221	-0.0074	-2.5 to 2.5	Pass
				-20	3.70	-6.623	-0.0094	-2.5 to 2.5	Pass
				-10	3.70	-6.452	-0.0091	-2.5 to 2.5	Pass
				0	3.70	-8.712	-0.0123	-2.5 to 2.5	Pass
				10	3.70	-7.067	-0.0100	-2.5 to 2.5	Pass
				30	3.70	-6.337	-0.0090	-2.5 to 2.5	Pass
				40	3.70	-8.268	-0.0117	-2.5 to 2.5	Pass
				50	3.70	-7.210	-0.0102	-2.5 to 2.5	Pass
				20	3.30	-4.220	-0.0059	-2.5 to 2.5	Pass
					3.70	-5.937	-0.0084	-2.5 to 2.5	Pass
					4.00	-4.220	-0.0059	-2.5 to 2.5	Pass
	704	50	0	-30	3.70	-4.363	-0.0061	-2.5 to 2.5	Pass
				-20	3.70	-5.307	-0.0075	-2.5 to 2.5	Pass
				-10	3.70	-5.851	-0.0082	-2.5 to 2.5	Pass
				0	3.70	-4.835	-0.0068	-2.5 to 2.5	Pass
				10	3.70	-7.539	-0.0106	-2.5 to 2.5	Pass
				30	3.70	-4.735	-0.0067	-2.5 to 2.5	Pass
				40	3.70	-6.123	-0.0086	-2.5 to 2.5	Pass
				50	3.70	-6.237	-0.0088	-2.5 to 2.5	Pass
				20	3.30	-6.695	-0.0095	-2.5 to 2.5	Pass
					3.70	-8.340	-0.0118	-2.5 to 2.5	Pass
					4.00	-6.609	-0.0094	-2.5 to 2.5	Pass
				-30	3.70	-6.609	-0.0094	-2.5 to 2.5	Pass
				-20	3.70	-4.563	-0.0065	-2.5 to 2.5	Pass
				-10	3.70	-4.249	-0.0060	-2.5 to 2.5	Pass
	707.5	50	0	0	3.70	-3.791	-0.0054	-2.5 to 2.5	Pass
				10	3.70	-4.420	-0.0063	-2.5 to 2.5	Pass
				30	3.70	-6.194	-0.0088	-2.5 to 2.5	Pass
				40	3.70	-6.838	-0.0097	-2.5 to 2.5	Pass
				50	3.70	-6.480	-0.0092	-2.5 to 2.5	Pass
				20	3.30	-5.665	-0.0080	-2.5 to 2.5	Pass
					3.70	-7.710	-0.0109	-2.5 to 2.5	Pass
					4.00	-6.237	-0.0088	-2.5 to 2.5	Pass
				-30	3.70	-6.094	-0.0086	-2.5 to 2.5	Pass
				-20	3.70	-7.911	-0.0112	-2.5 to 2.5	Pass
				-10	3.70	-6.137	-0.0087	-2.5 to 2.5	Pass
				0	3.70	-5.436	-0.0077	-2.5 to 2.5	Pass
				10	3.70	-3.548	-0.0050	-2.5 to 2.5	Pass
				30	3.70	-2.661	-0.0038	-2.5 to 2.5	Pass
				40	3.70	-3.490	-0.0049	-2.5 to 2.5	Pass
	711	50	0	50	3.70	-4.163	-0.0059	-2.5 to 2.5	Pass
				20	3.30	-5.293	-0.0074	-2.5 to 2.5	Pass
					3.70	-6.981	-0.0098	-2.5 to 2.5	Pass
					4.00	-4.892	-0.0069	-2.5 to 2.5	Pass
				-30	3.70	-5.794	-0.0081	-2.5 to 2.5	Pass
				-20	3.70	-3.133	-0.0044	-2.5 to 2.5	Pass
				-10	3.70	-2.017	-0.0028	-2.5 to 2.5	Pass
				0	3.70	-5.922	-0.0083	-2.5 to 2.5	Pass
				10	3.70	-2.618	-0.0037	-2.5 to 2.5	Pass

				30	3.70	-5.164	-0.0073	-2.5 to 2.5	Pass
				40	3.70	-4.220	-0.0059	-2.5 to 2.5	Pass
				50	3.70	-4.764	-0.0067	-2.5 to 2.5	Pass

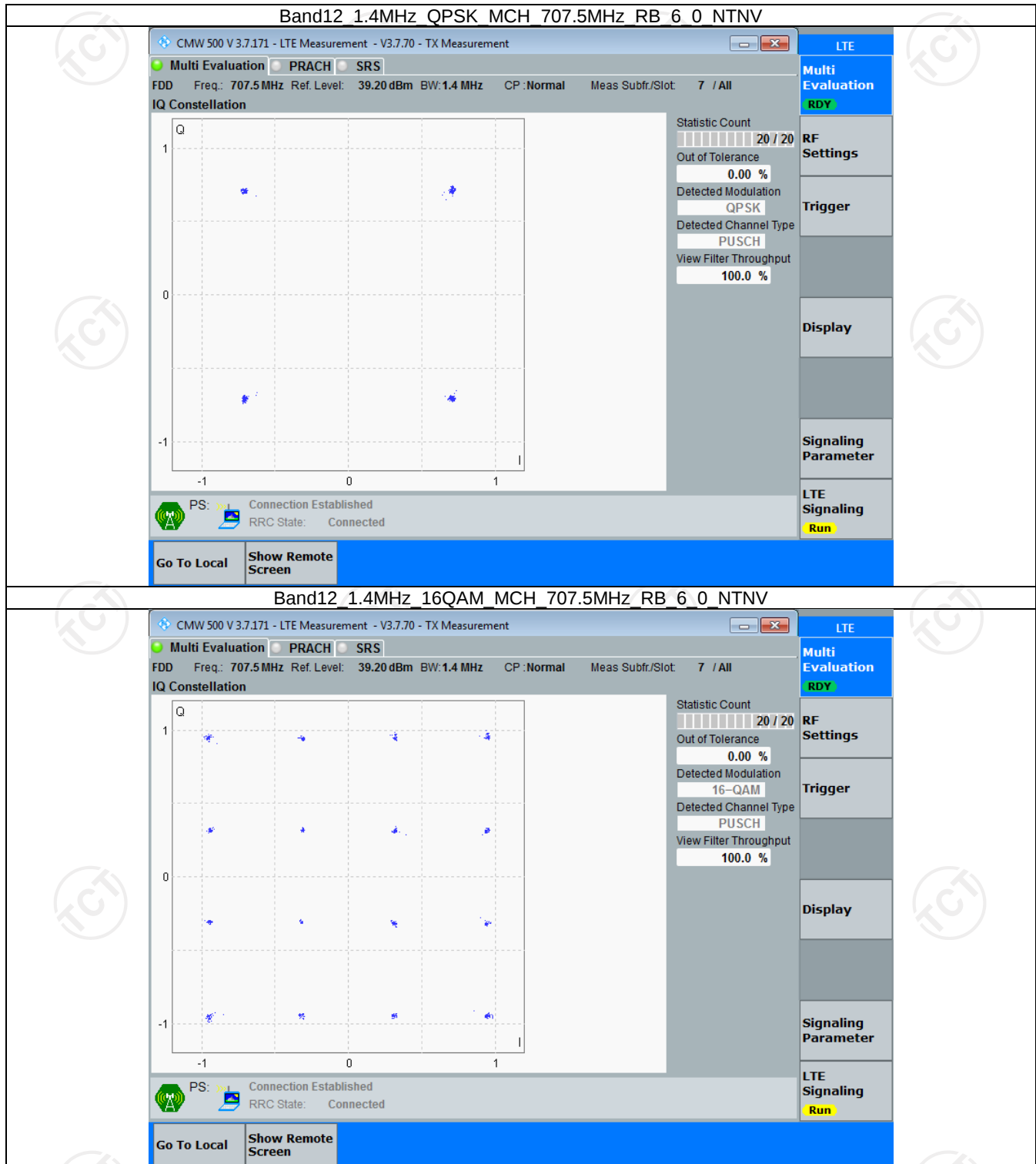
3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
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

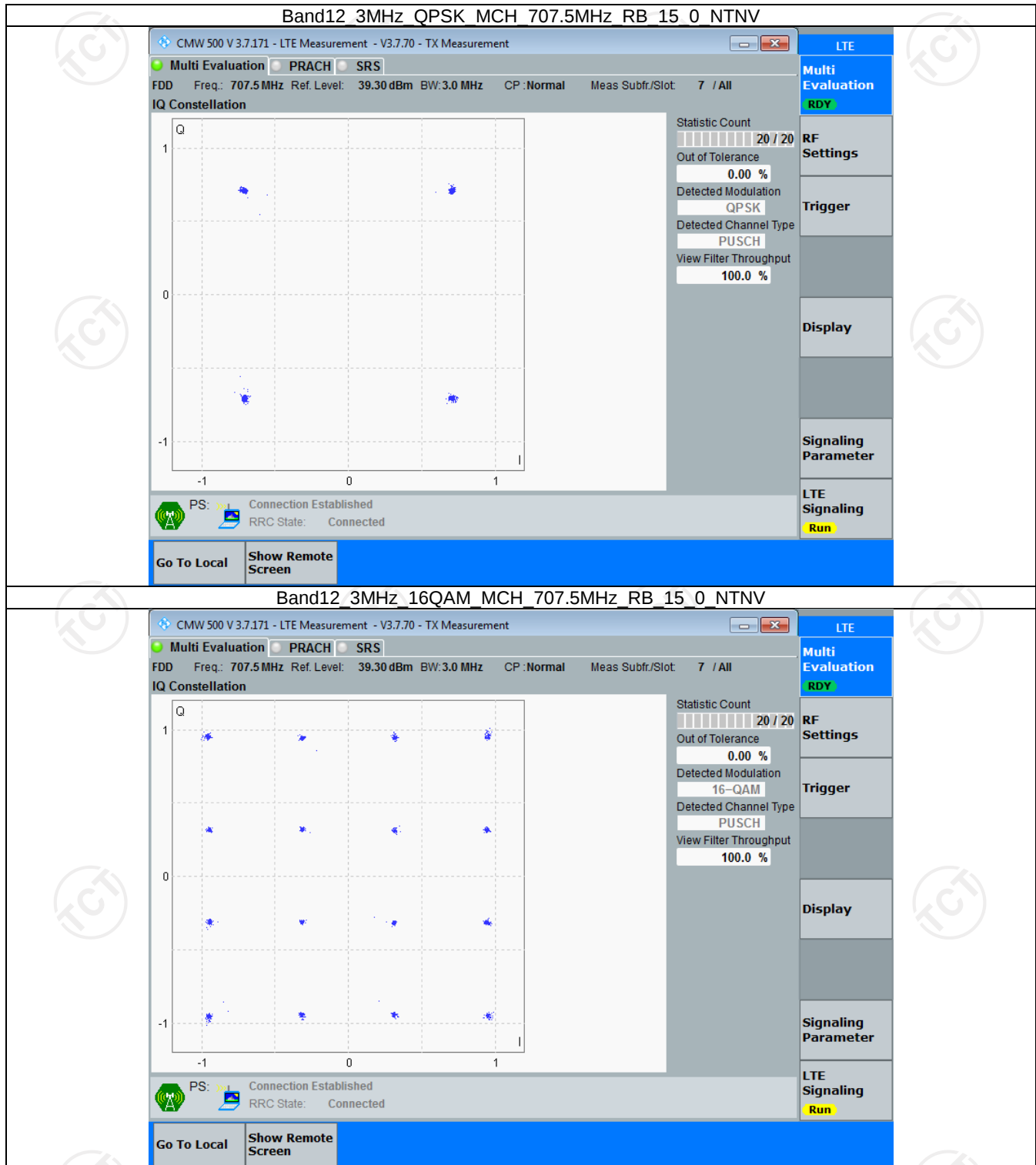


3.2 B12_3MHz

3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / 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

3.2.2 Test Graph

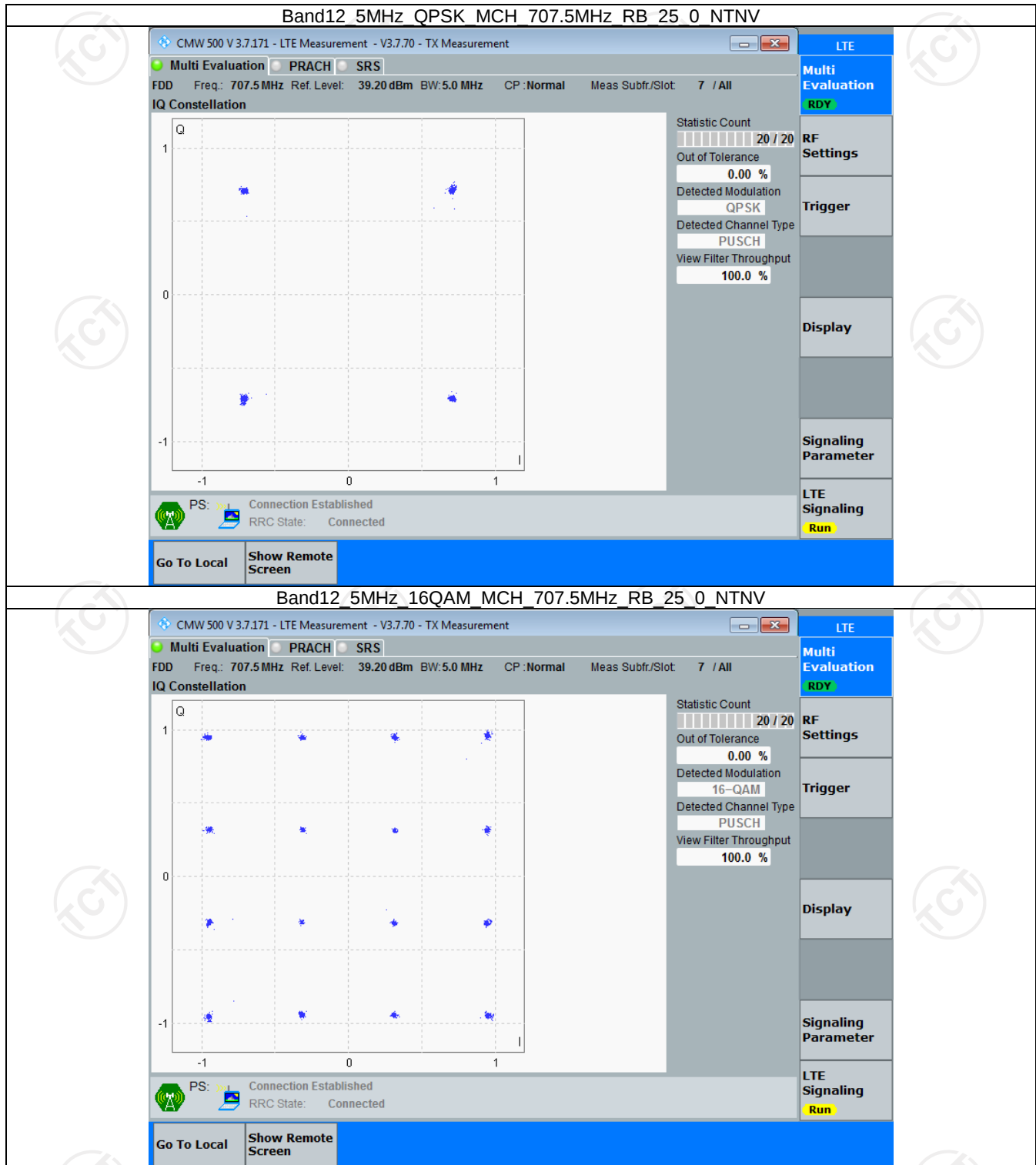


3.3 B12_5MHz

3.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		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

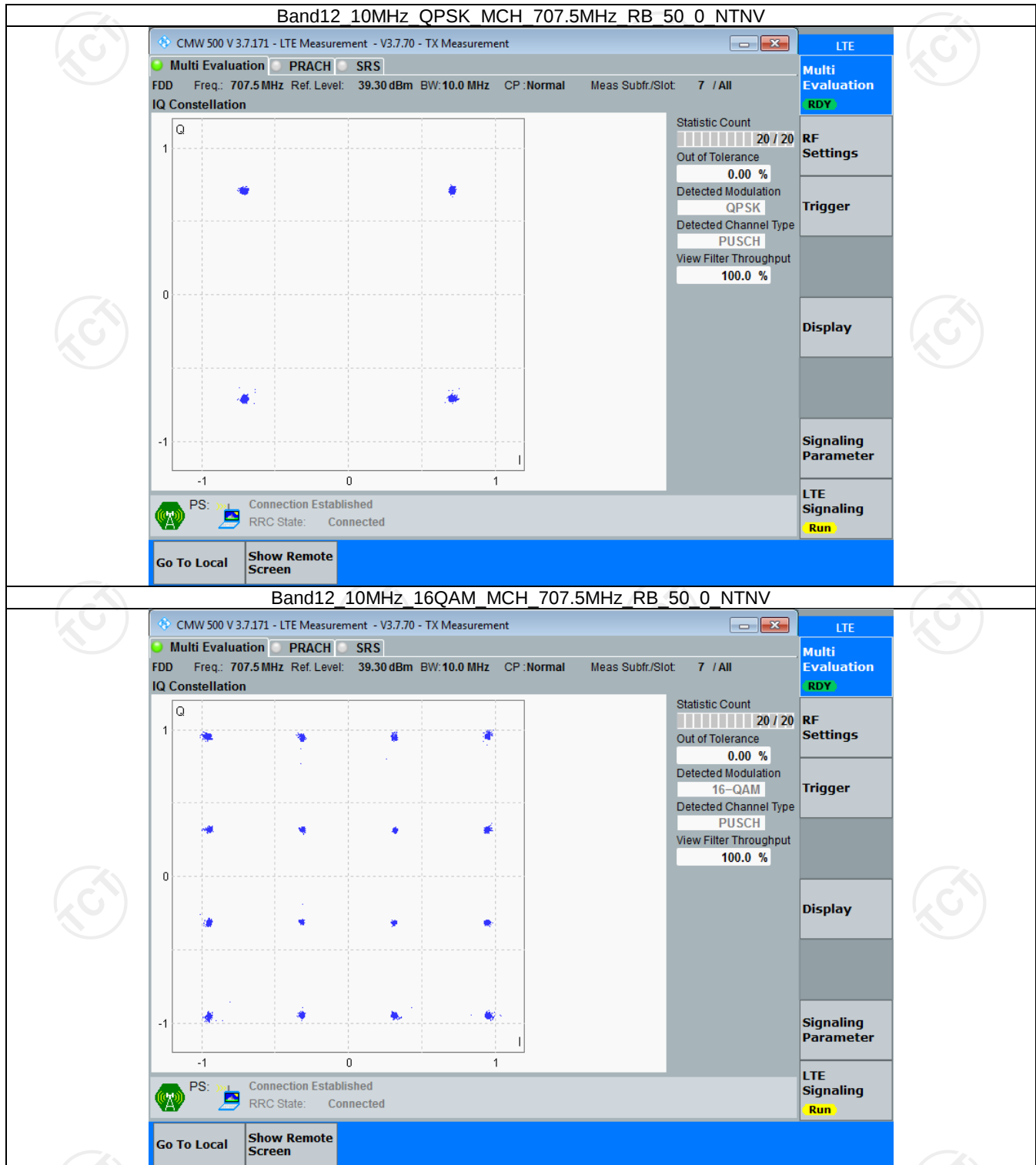


3.4 B12_10MHz

3.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / 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

3.4.2 Test Graph



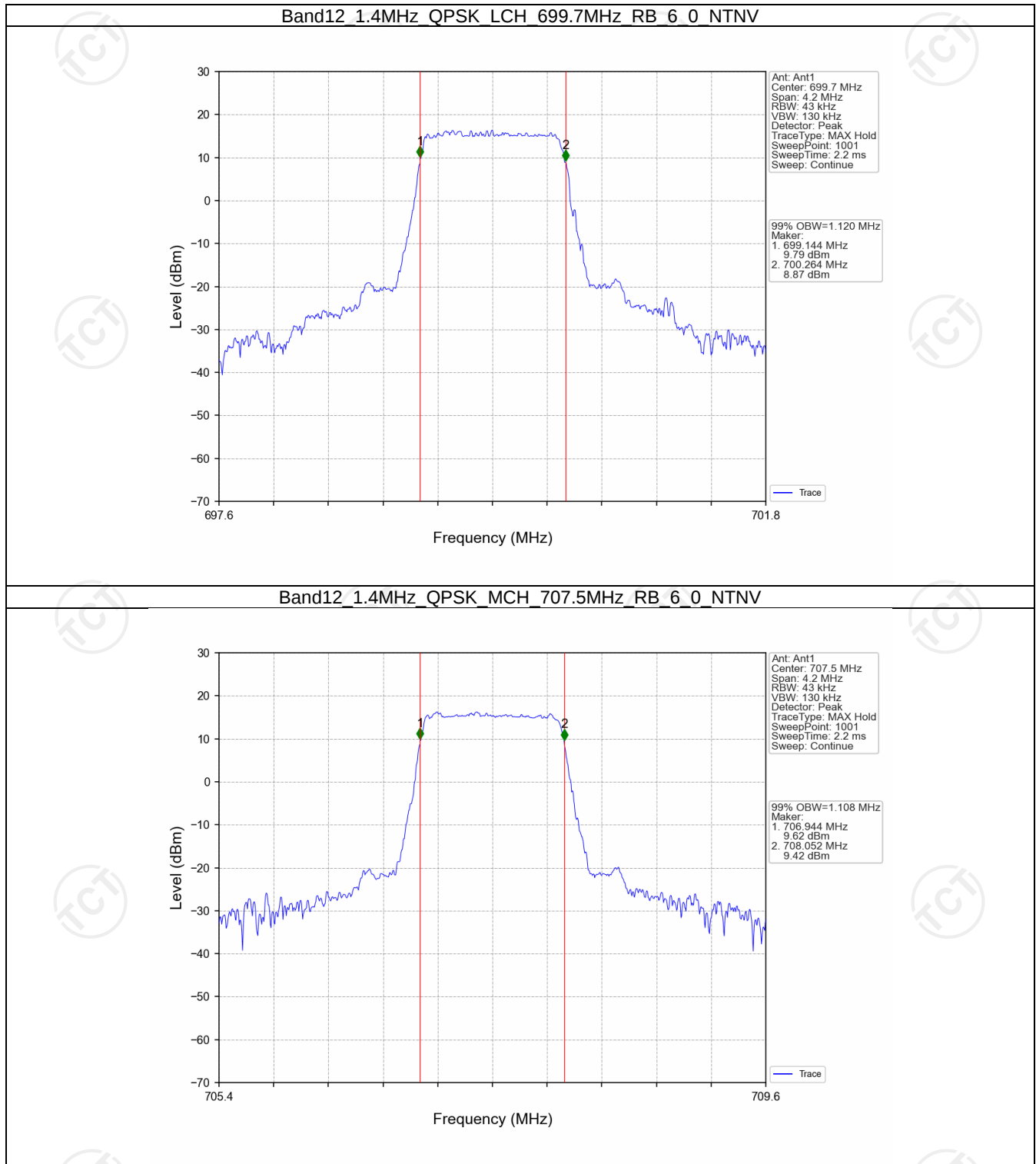
4. 99% & 26dB Bandwidth

4.1 Band12_OBW

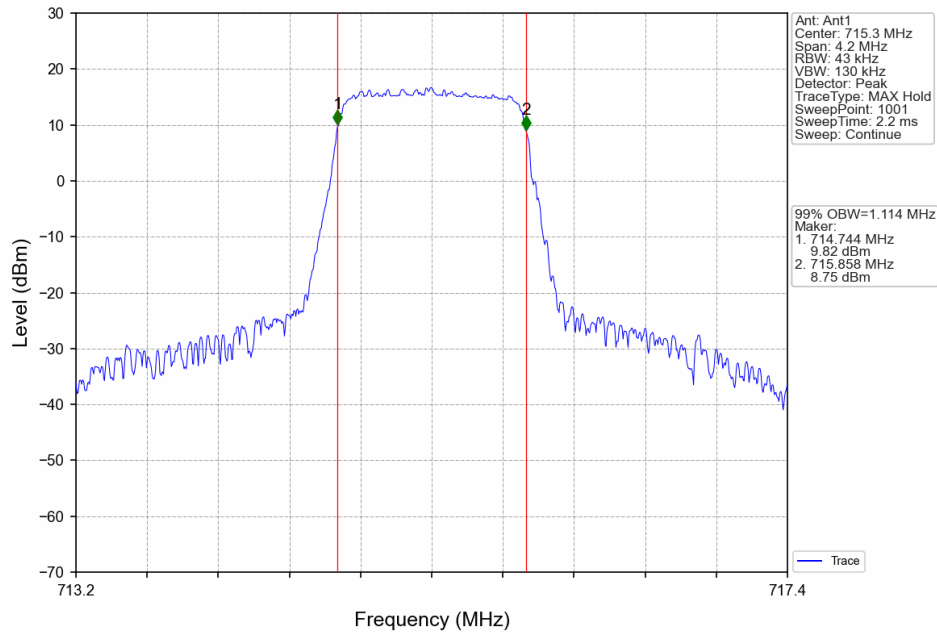
4.1.1 Test Result

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	1.120	Pass
		707.5	6	0	1.108	Pass
		715.3	6	0	1.114	Pass
	16QAM	699.7	6	0	1.102	Pass
		707.5	6	0	1.117	Pass
		715.3	6	0	1.108	Pass
3	QPSK	700.5	15	0	2.728	Pass
		707.5	15	0	2.724	Pass
		714.5	15	0	2.724	Pass
	16QAM	700.5	15	0	2.717	Pass
		707.5	15	0	2.718	Pass
		714.5	15	0	2.706	Pass
5	QPSK	701.5	25	0	4.579	Pass
		707.5	25	0	4.565	Pass
		713.5	25	0	4.542	Pass
	16QAM	701.5	25	0	4.549	Pass
		707.5	25	0	4.577	Pass
		713.5	25	0	4.579	Pass
10	QPSK	704	50	0	9.030	Pass
		707.5	50	0	9.075	Pass
		711	50	0	9.090	Pass
	16QAM	704	50	0	9.015	Pass
		707.5	50	0	9.067	Pass
		711	50	0	9.101	Pass

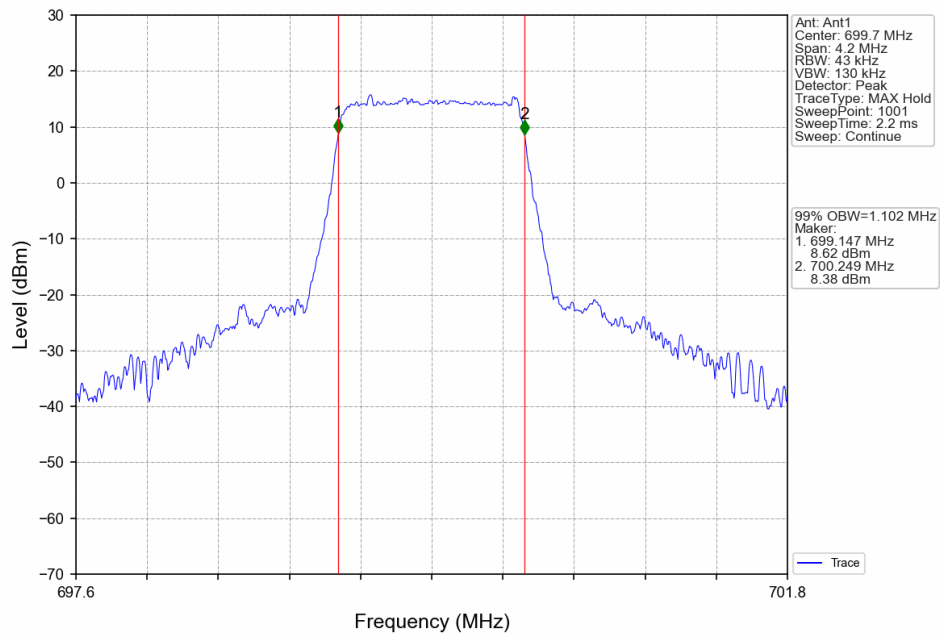
4.1.2 Test Graph



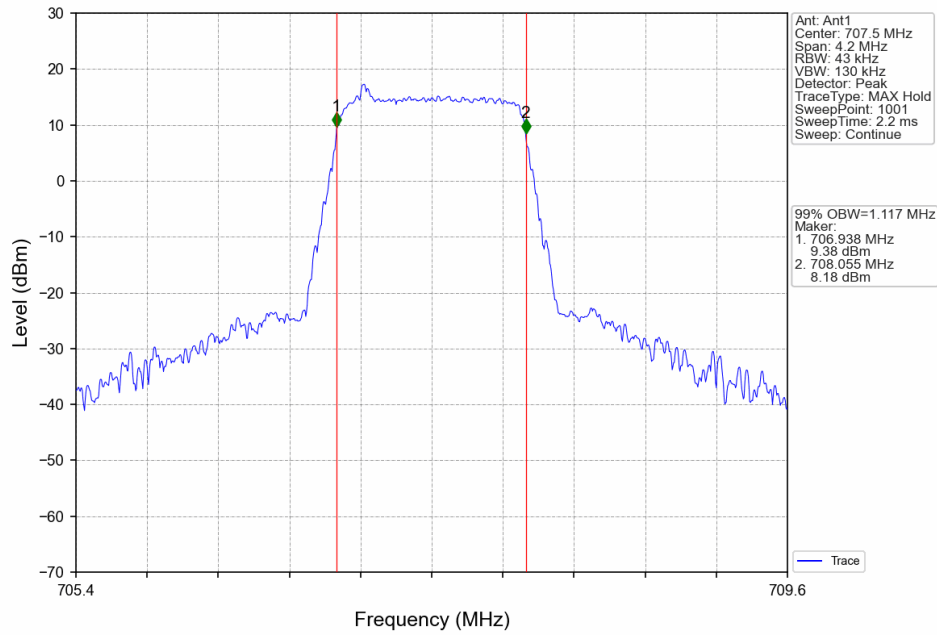
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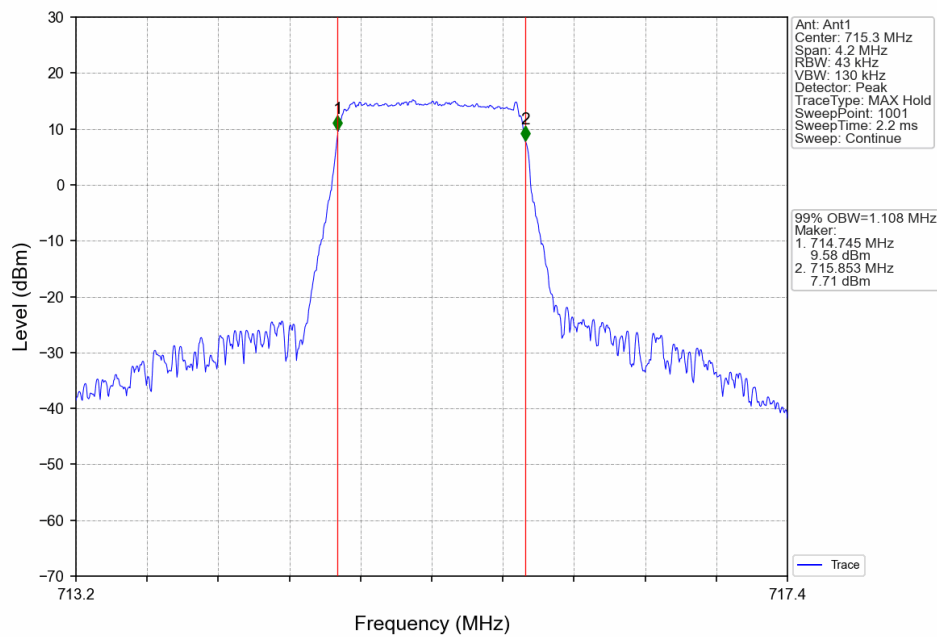
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



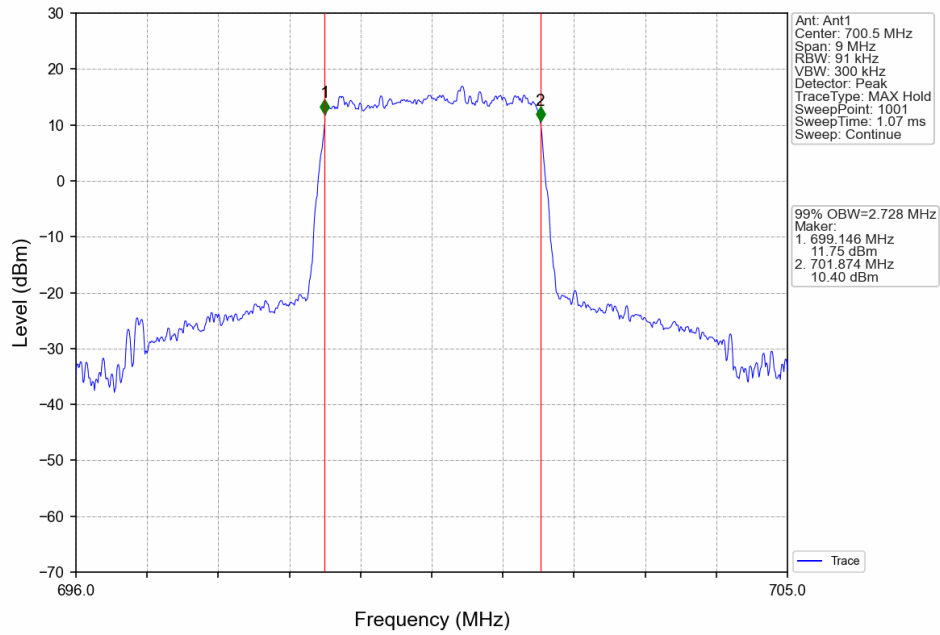
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



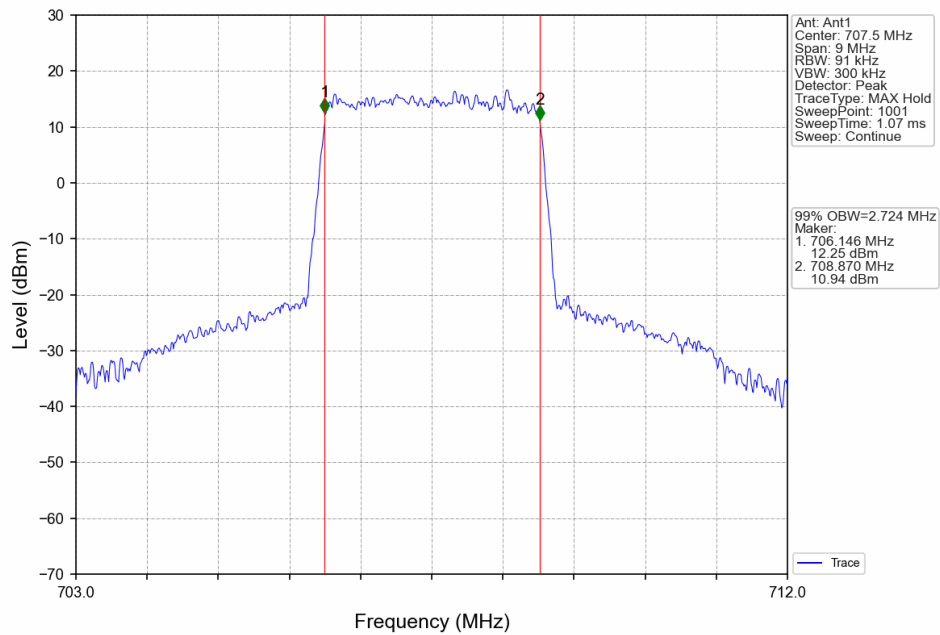
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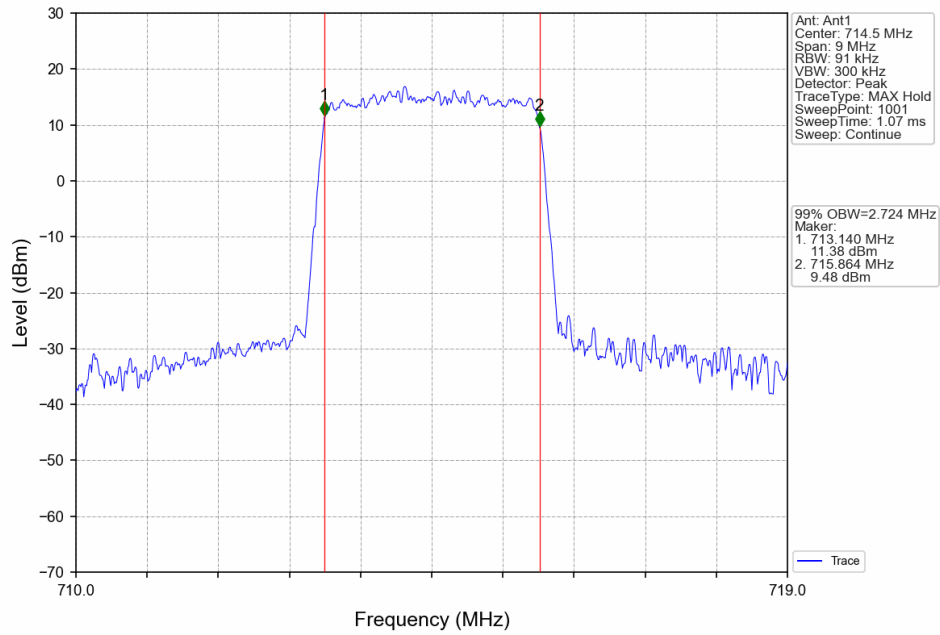
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



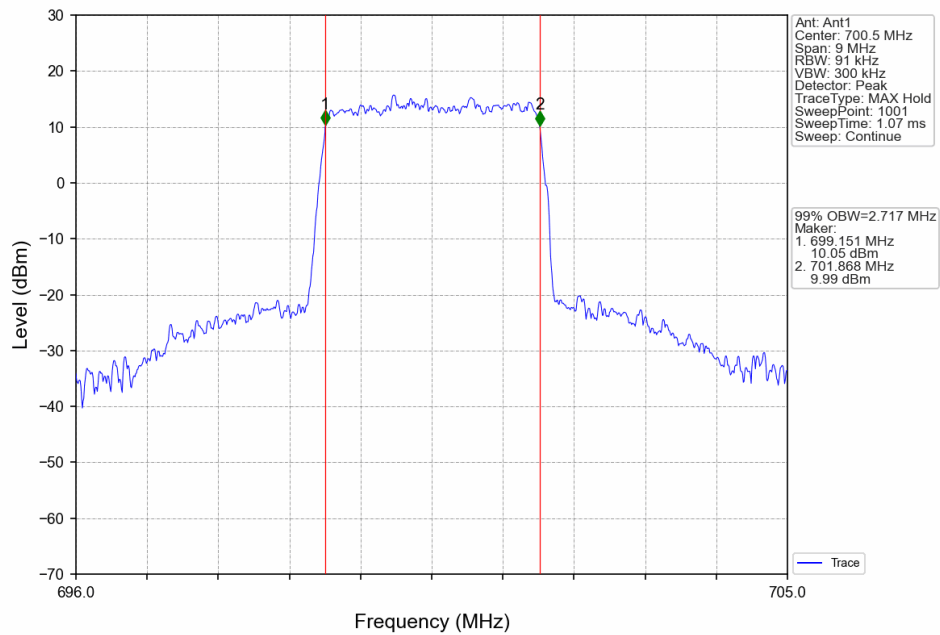
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



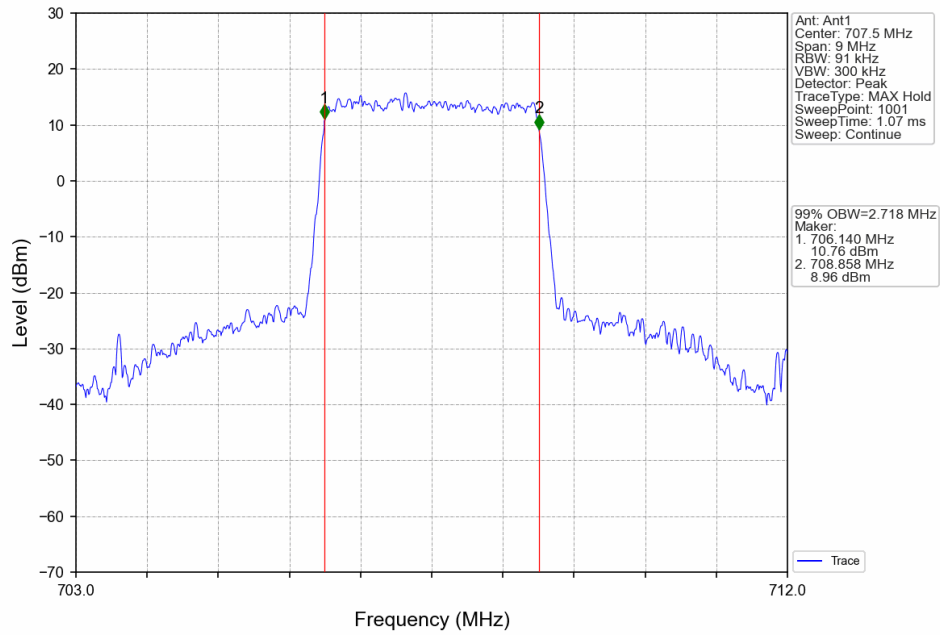
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



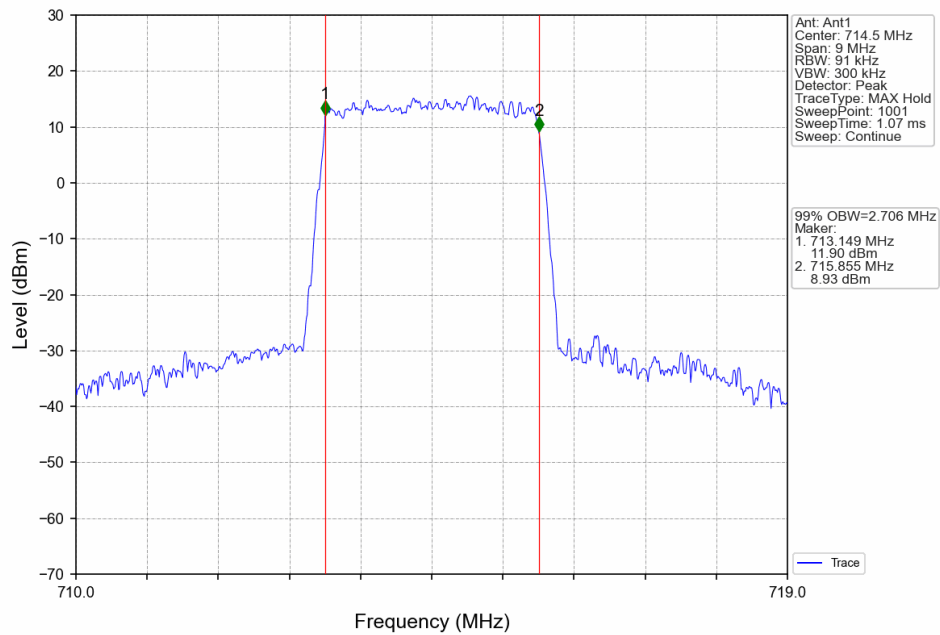
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



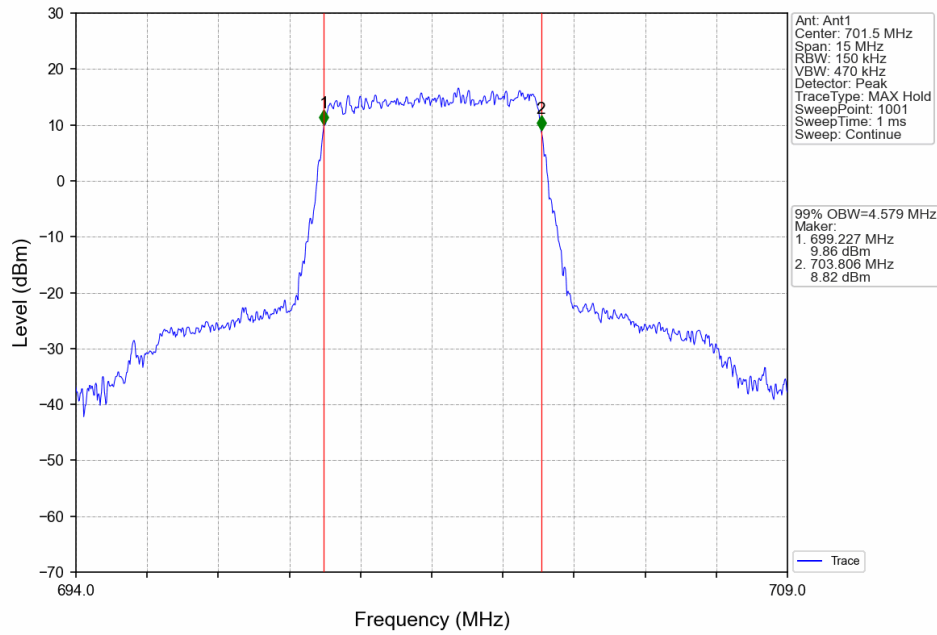
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



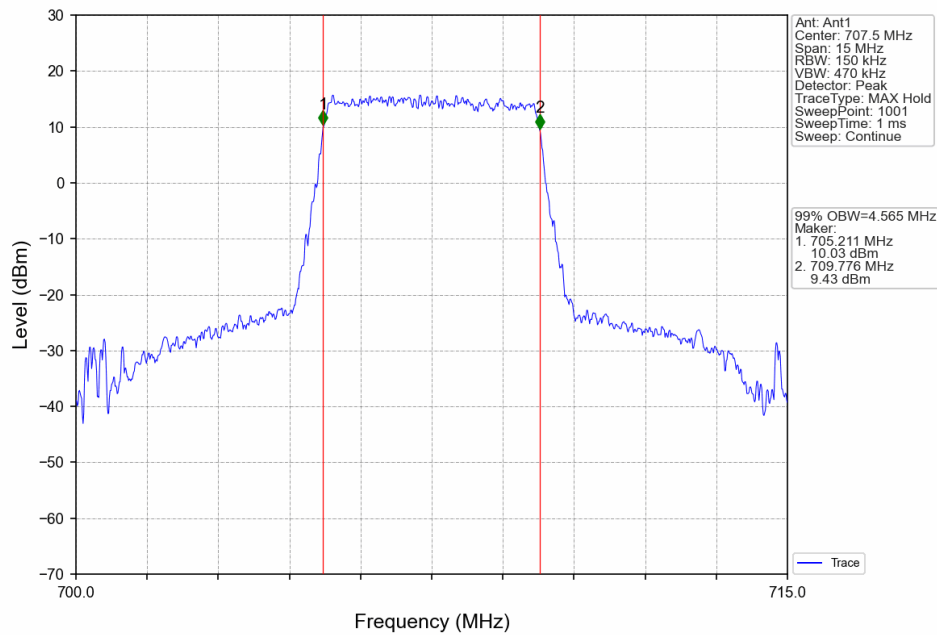
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



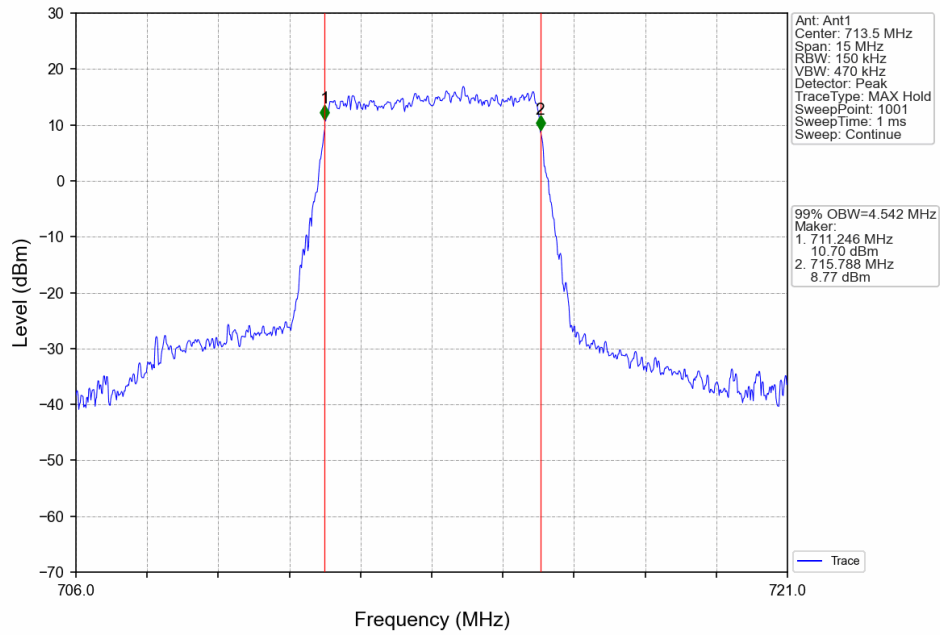
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



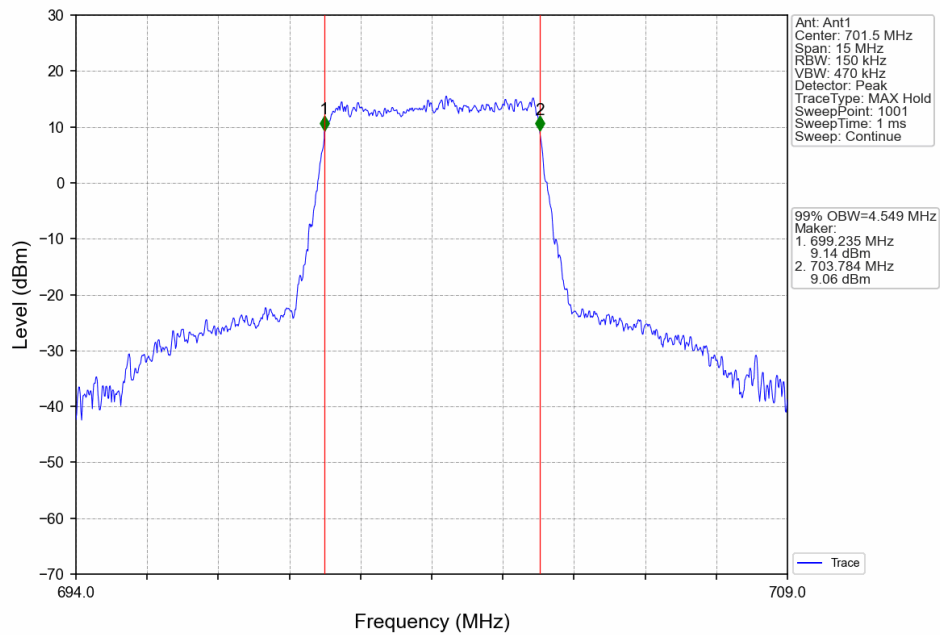
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



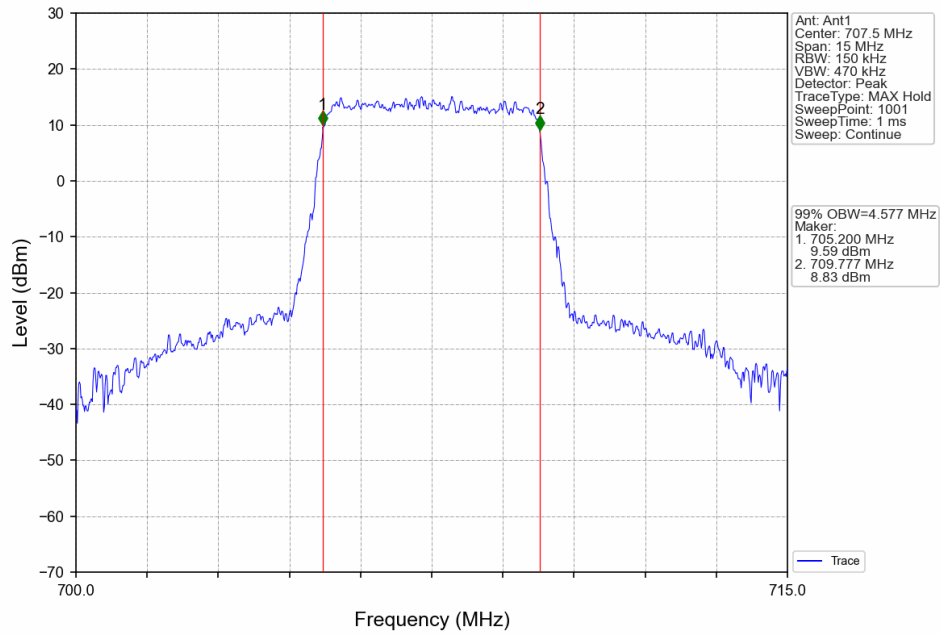
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



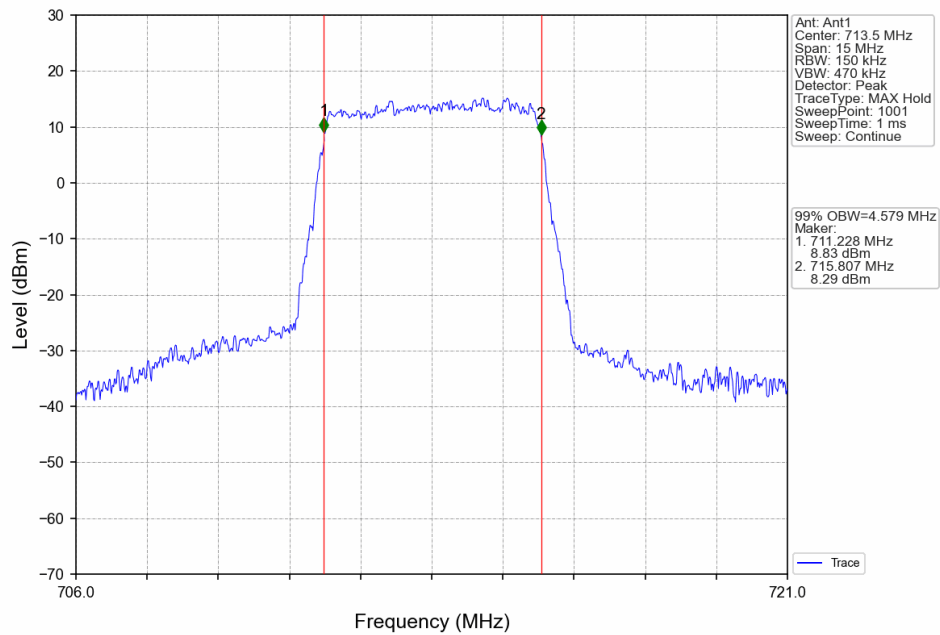
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



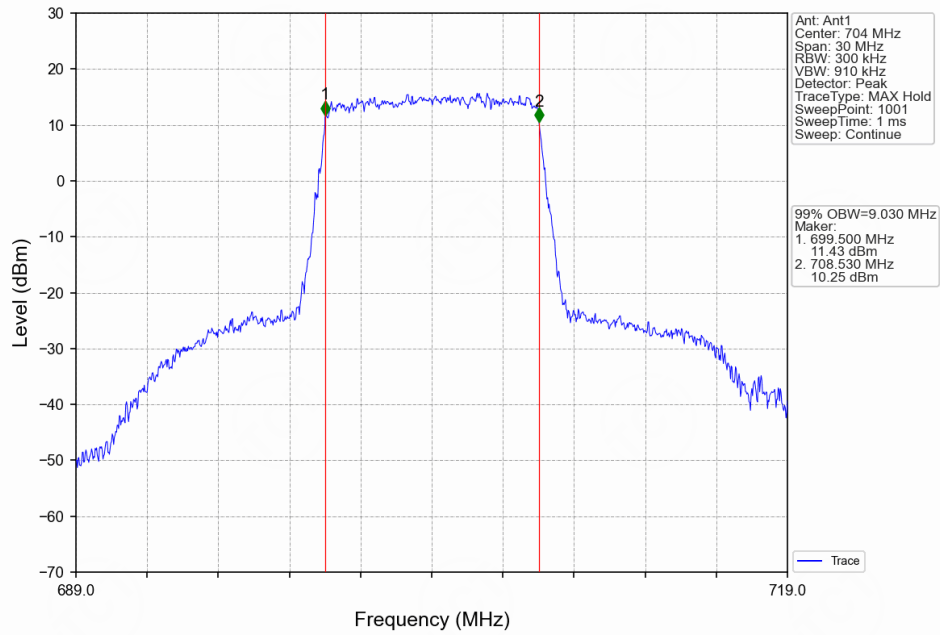
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



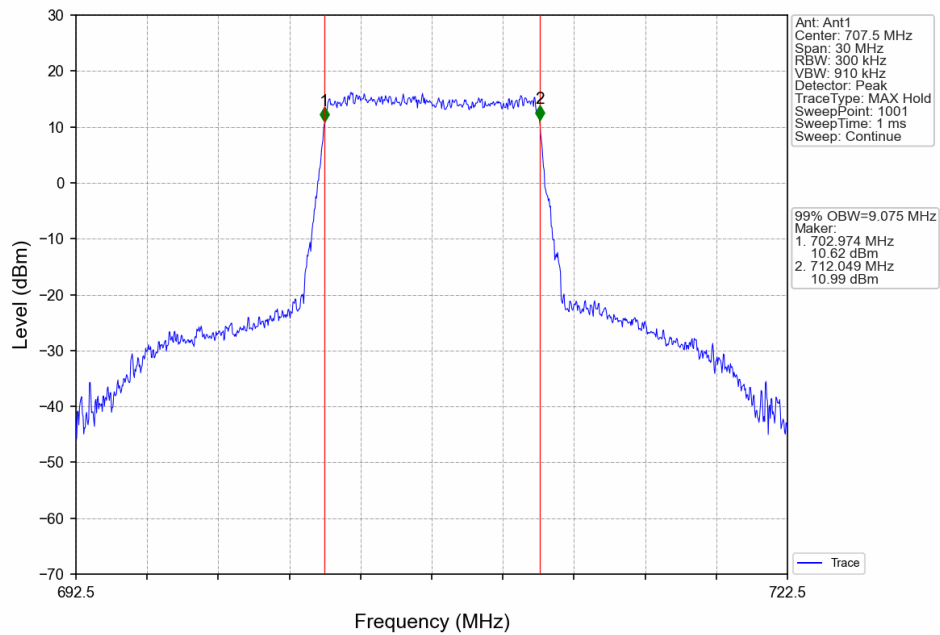
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



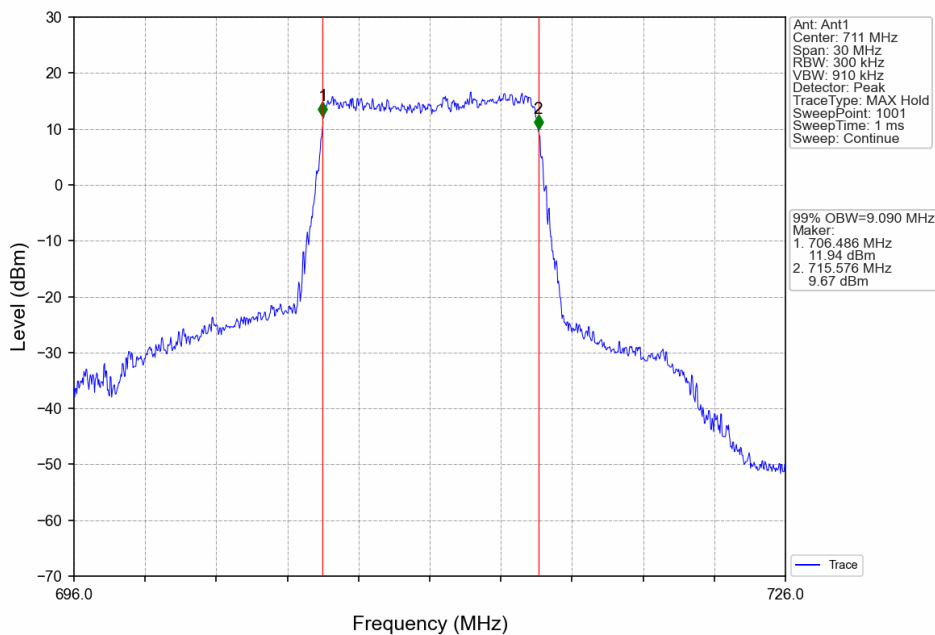
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



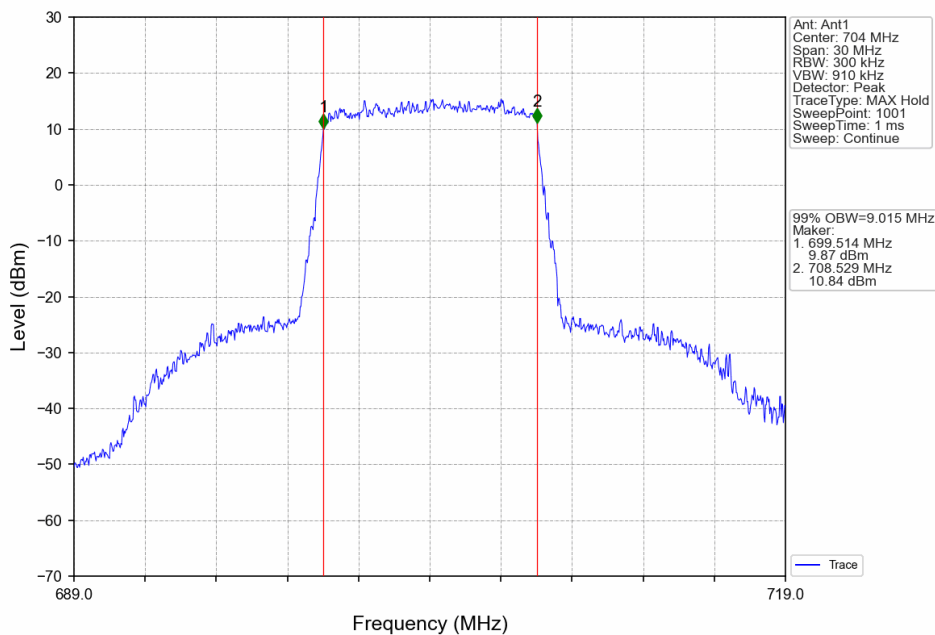
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



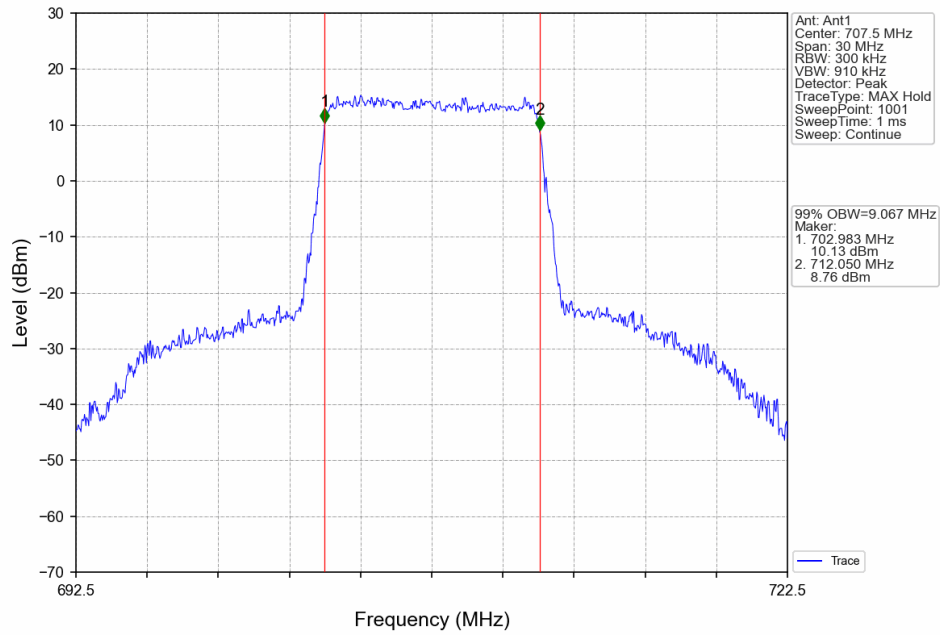
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



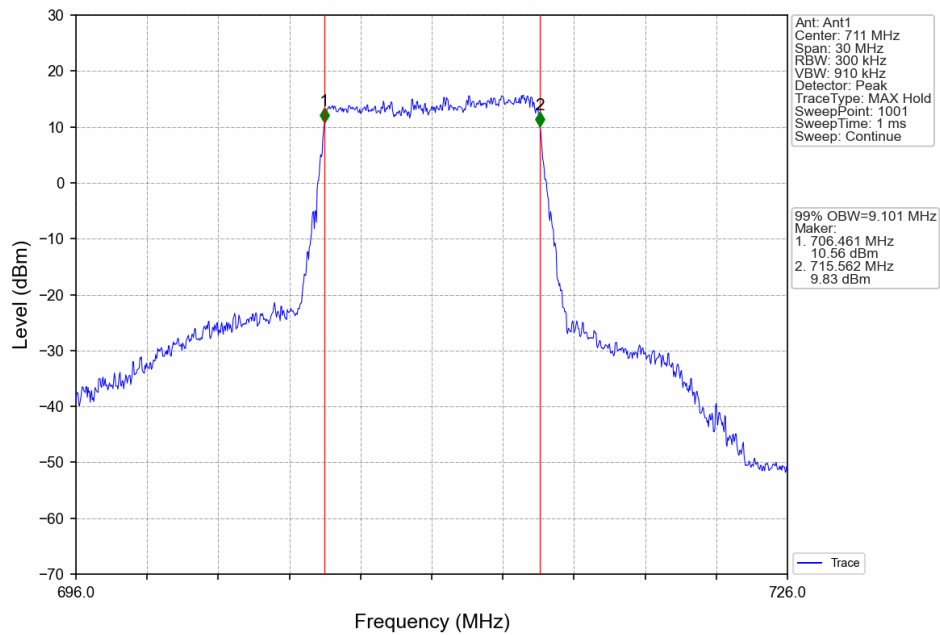
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

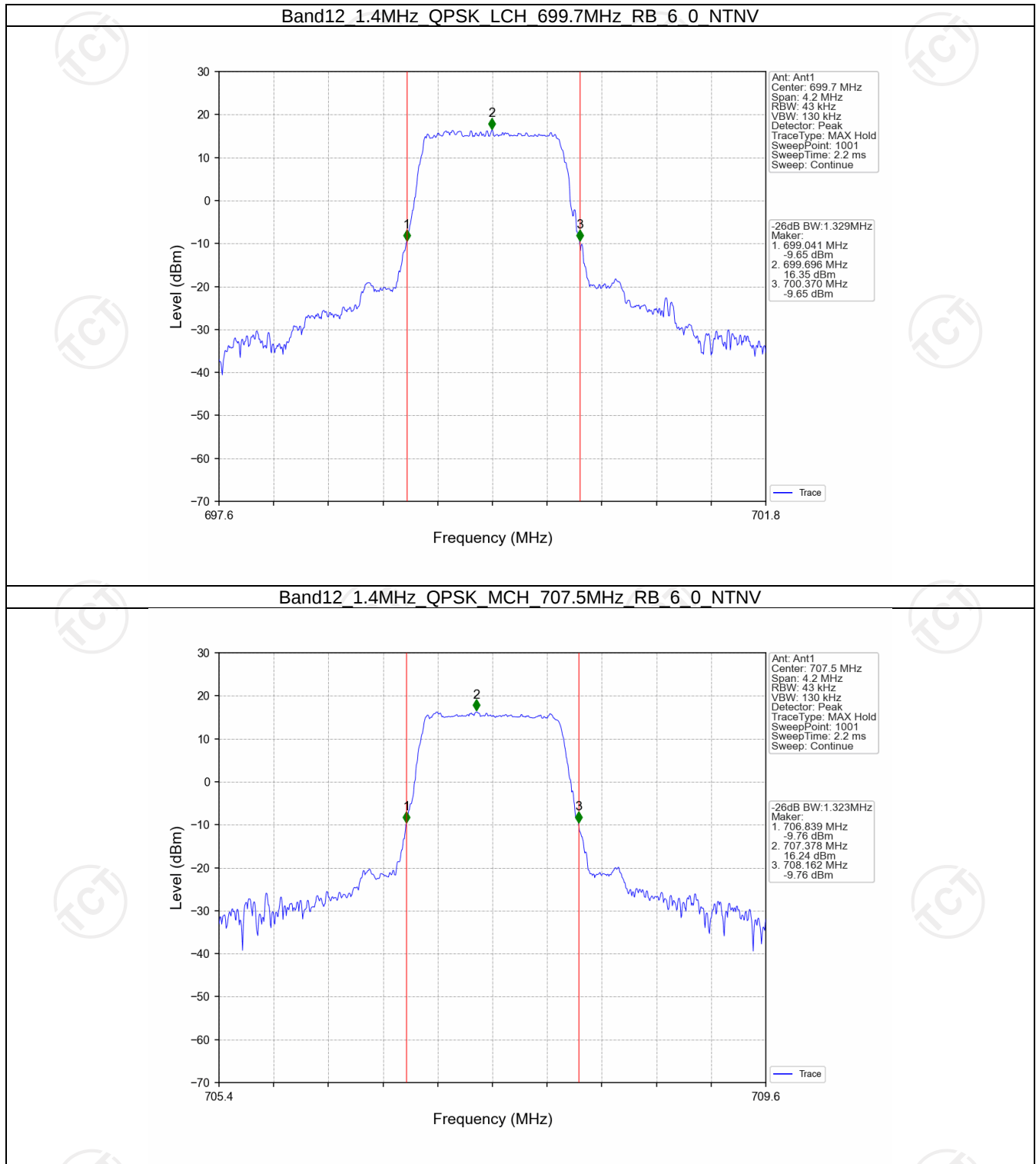


4.2 Band12_XDB

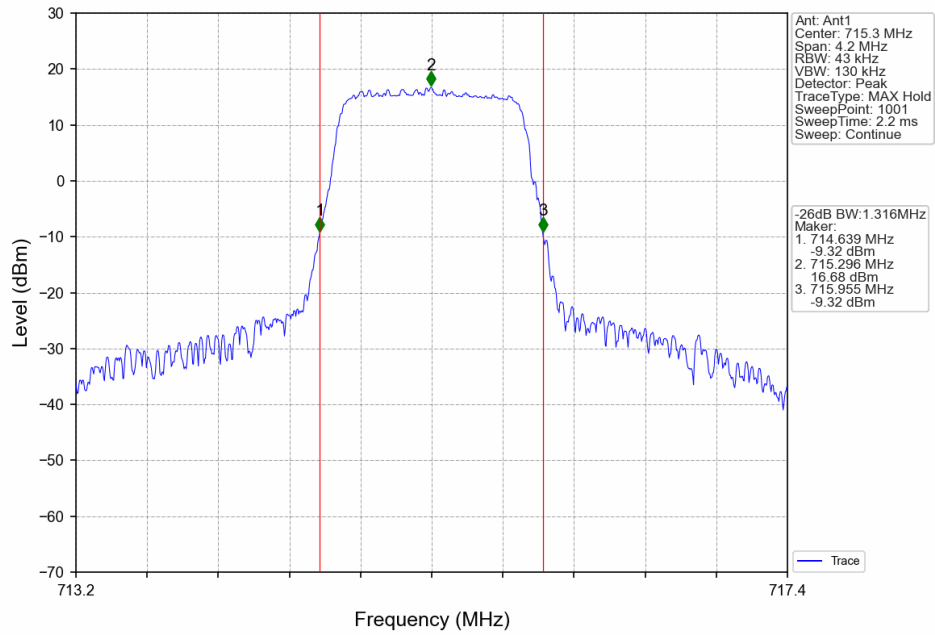
4.2.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.329	Pass
		707.5	6	0	1.323	Pass
		715.3	6	0	1.316	Pass
	16QAM	699.7	6	0	1.306	Pass
		707.5	6	0	1.310	Pass
		715.3	6	0	1.317	Pass
3	QPSK	700.5	15	0	2.992	Pass
		707.5	15	0	2.999	Pass
		714.5	15	0	2.992	Pass
	16QAM	700.5	15	0	2.984	Pass
		707.5	15	0	2.990	Pass
		714.5	15	0	2.985	Pass
5	QPSK	701.5	25	0	5.253	Pass
		707.5	25	0	5.279	Pass
		713.5	25	0	5.189	Pass
	16QAM	701.5	25	0	5.238	Pass
		707.5	25	0	5.279	Pass
		713.5	25	0	5.272	Pass
10	QPSK	704	50	0	10.217	Pass
		707.5	50	0	10.164	Pass
		711	50	0	10.313	Pass
	16QAM	704	50	0	10.291	Pass
		707.5	50	0	10.227	Pass
		711	50	0	10.259	Pass

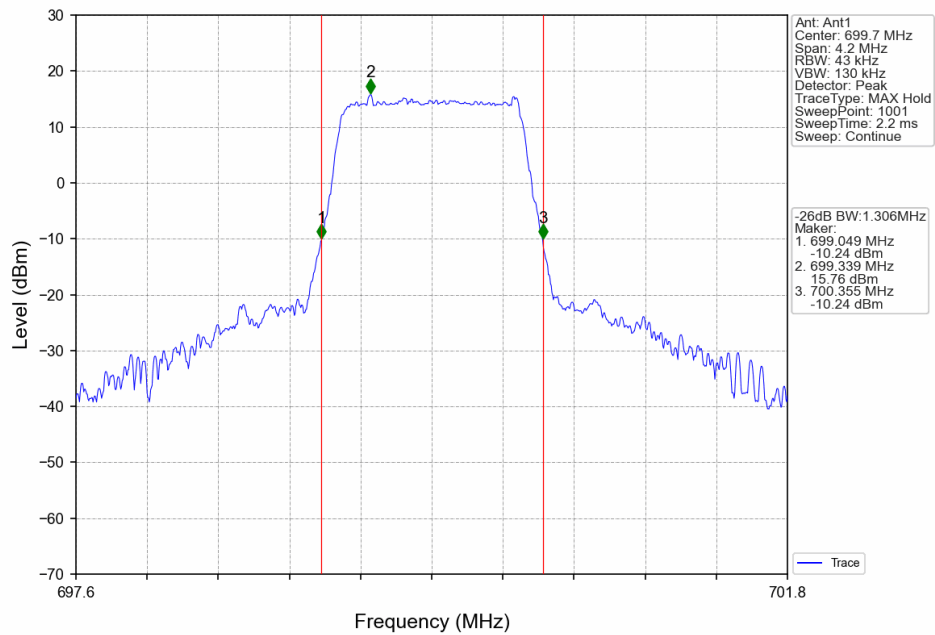
4.2.2 Test Graph



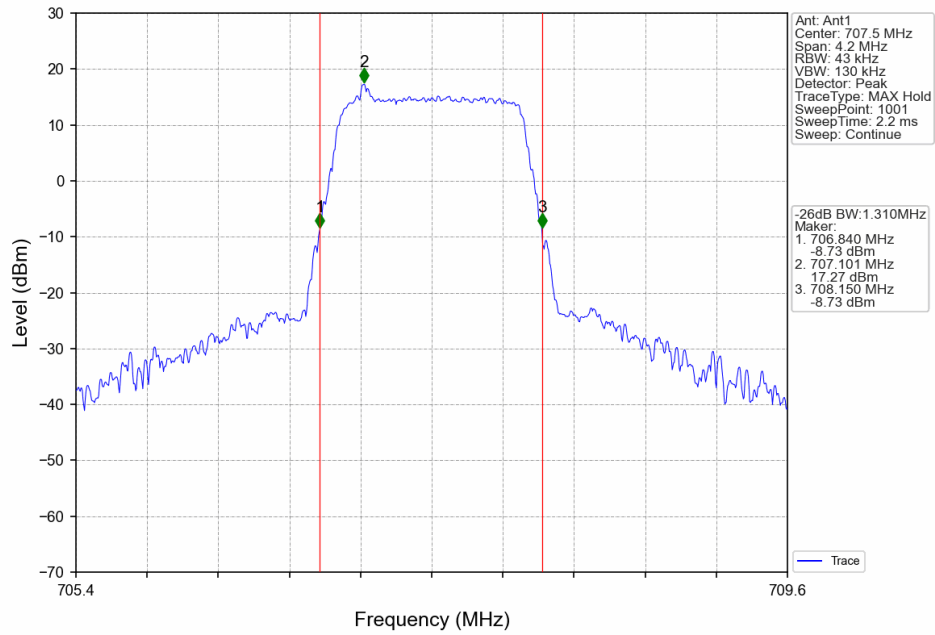
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



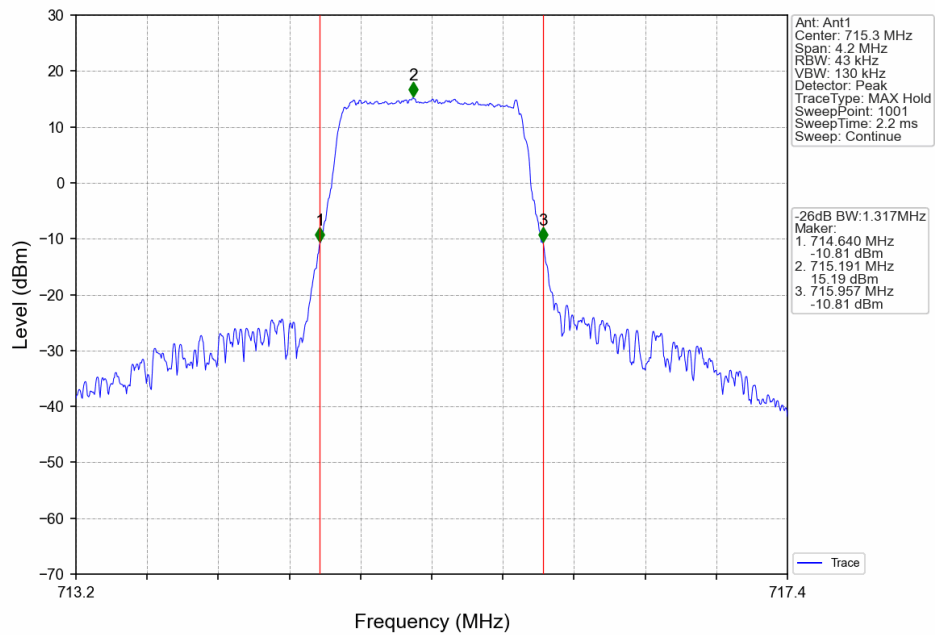
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



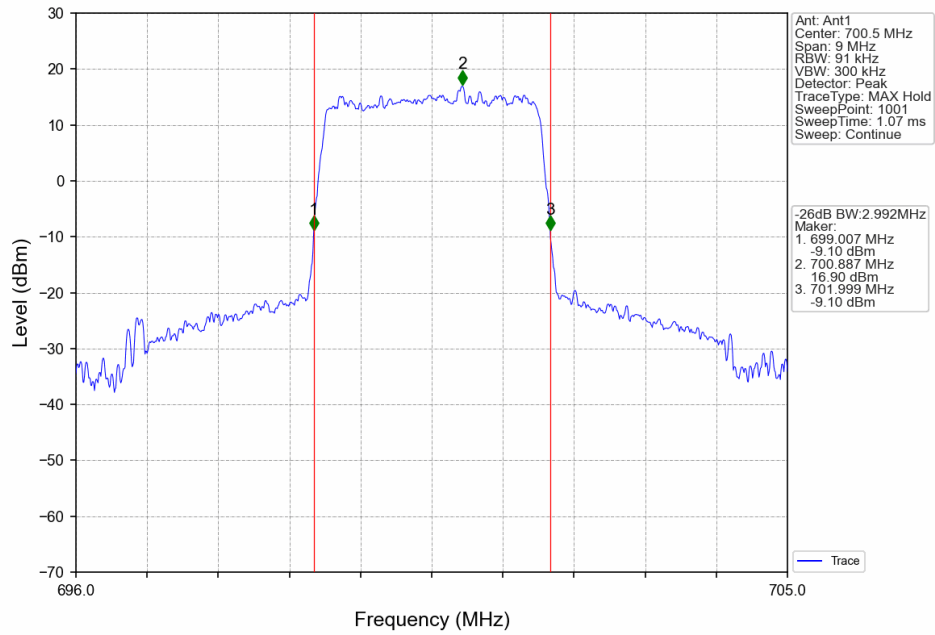
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



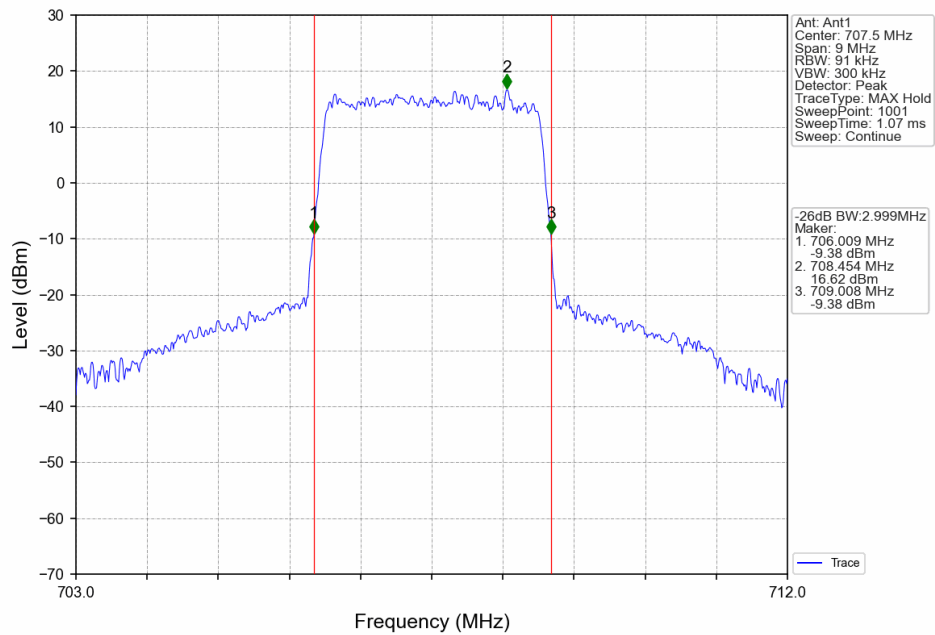
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



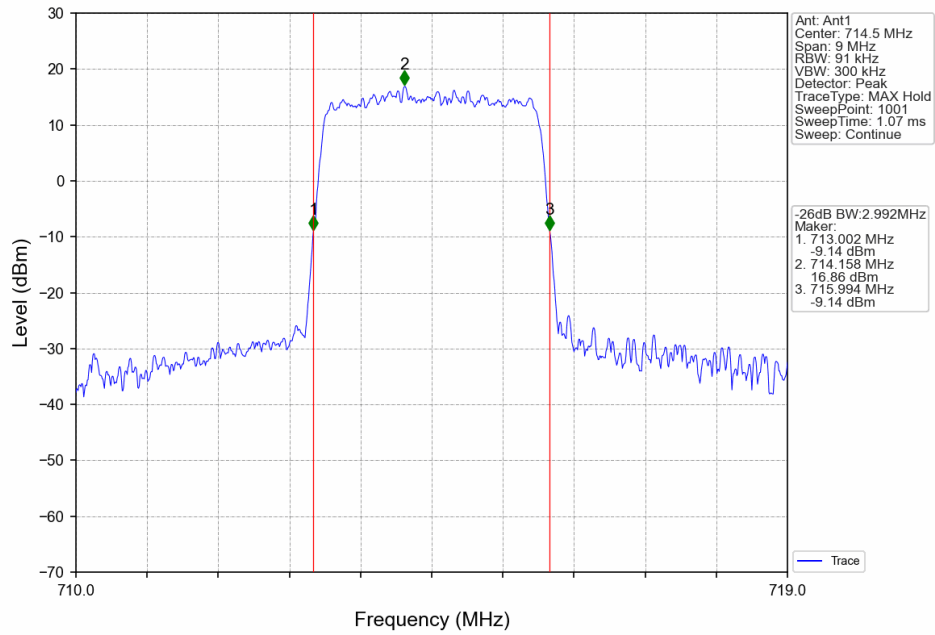
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



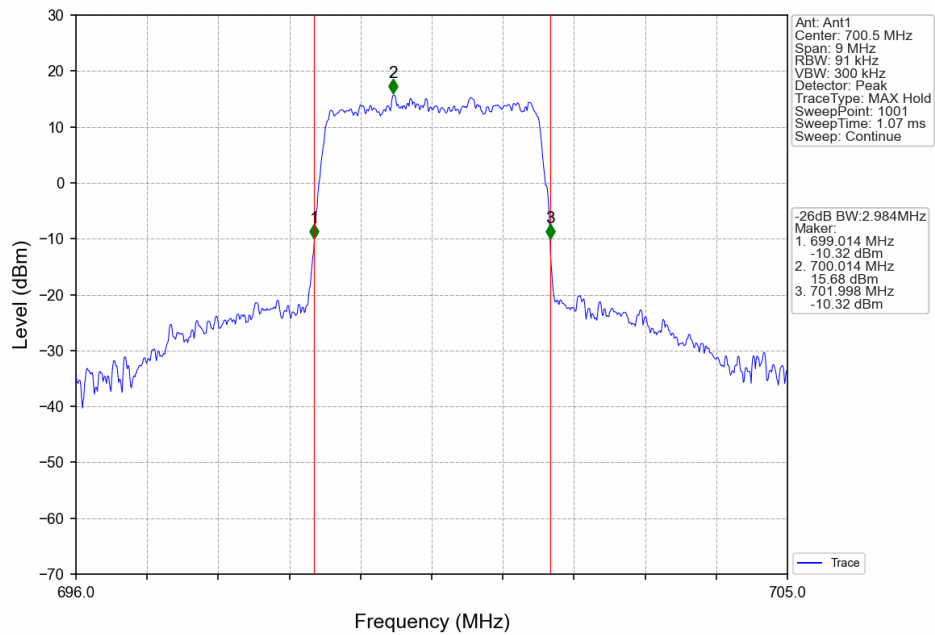
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



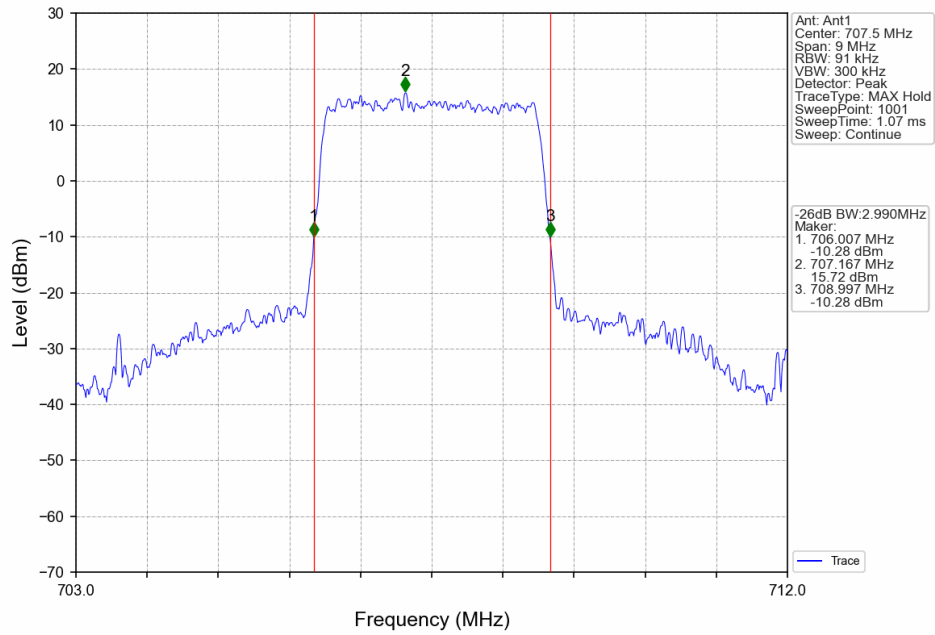
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



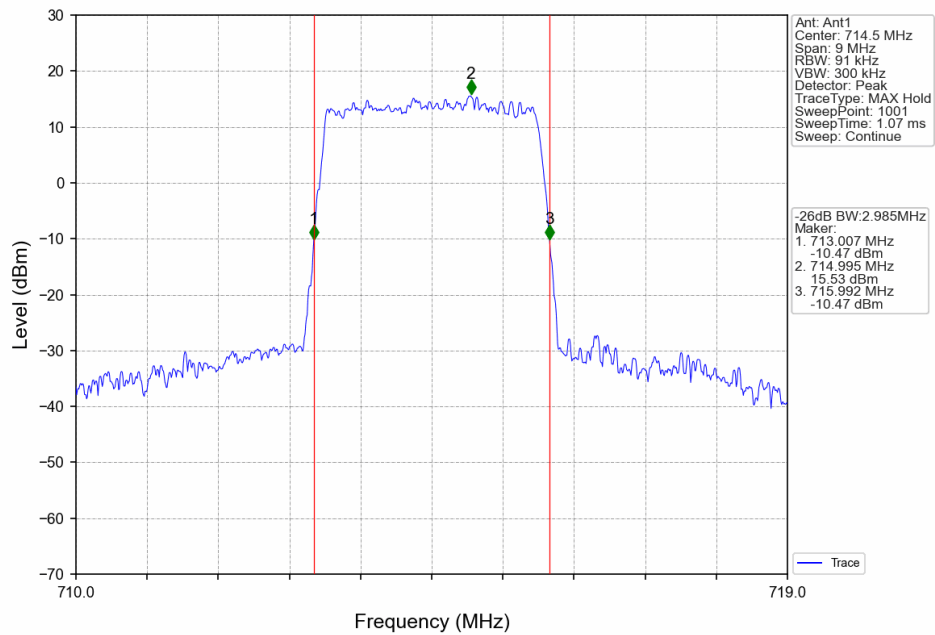
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



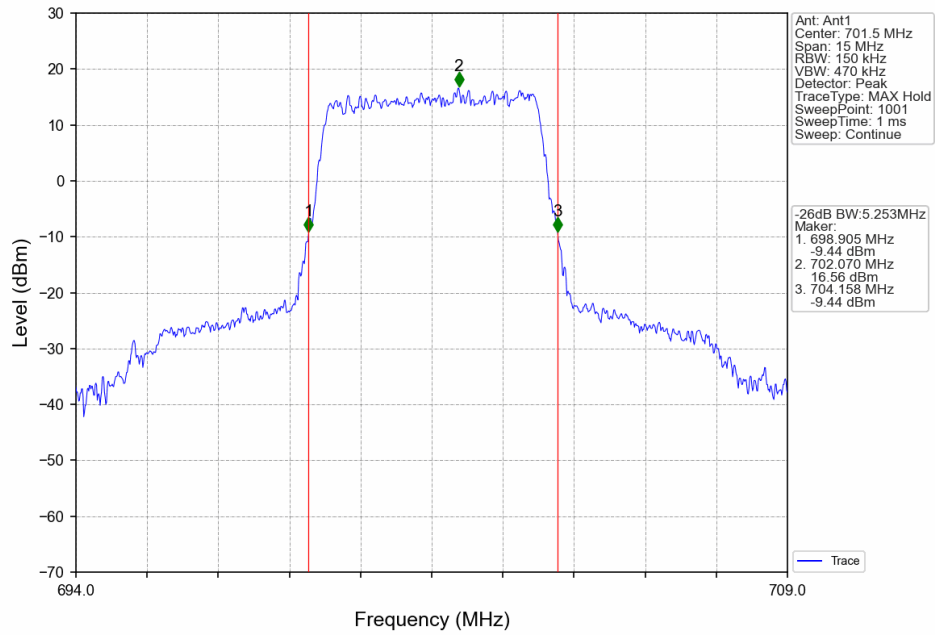
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



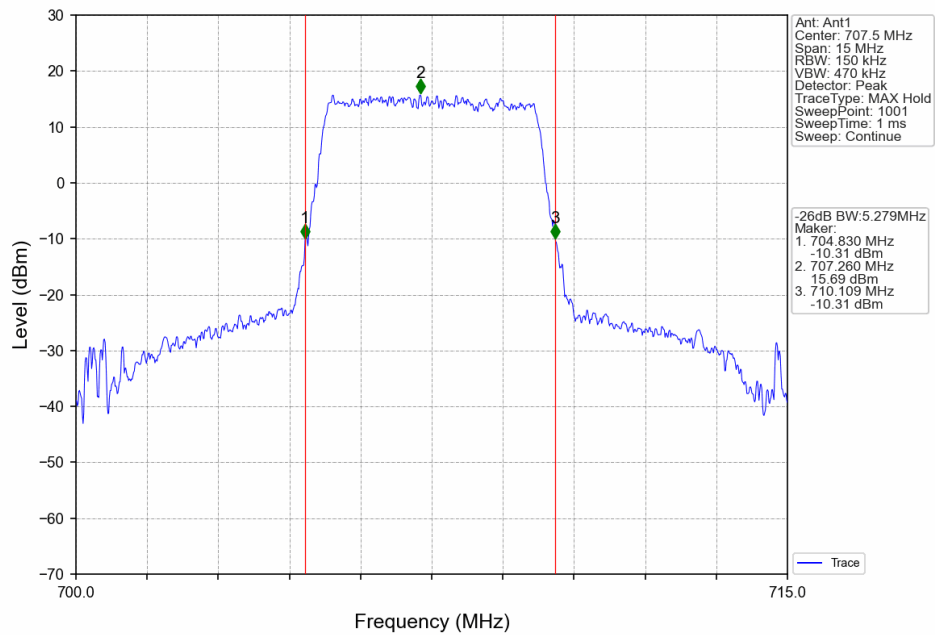
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



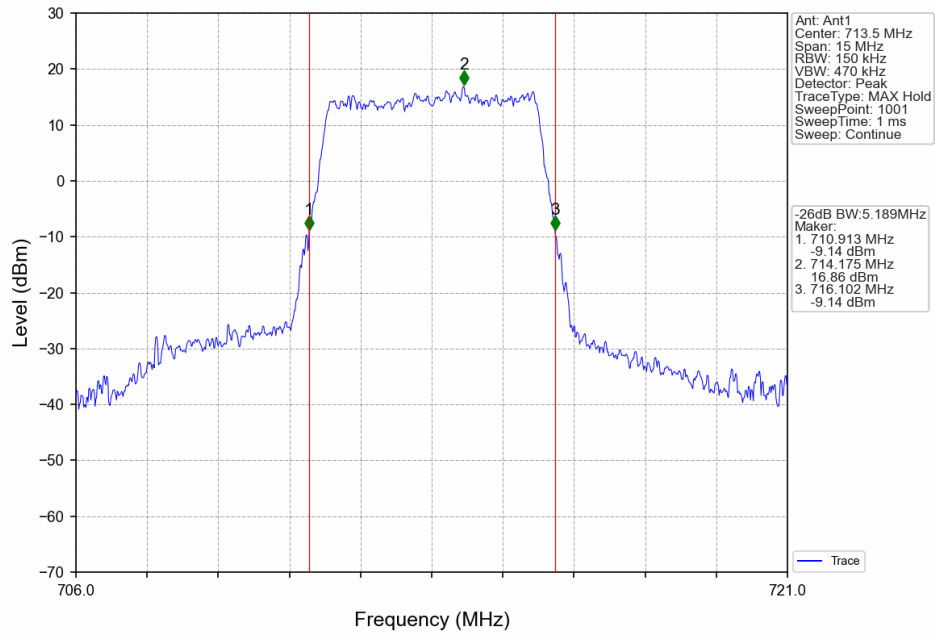
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



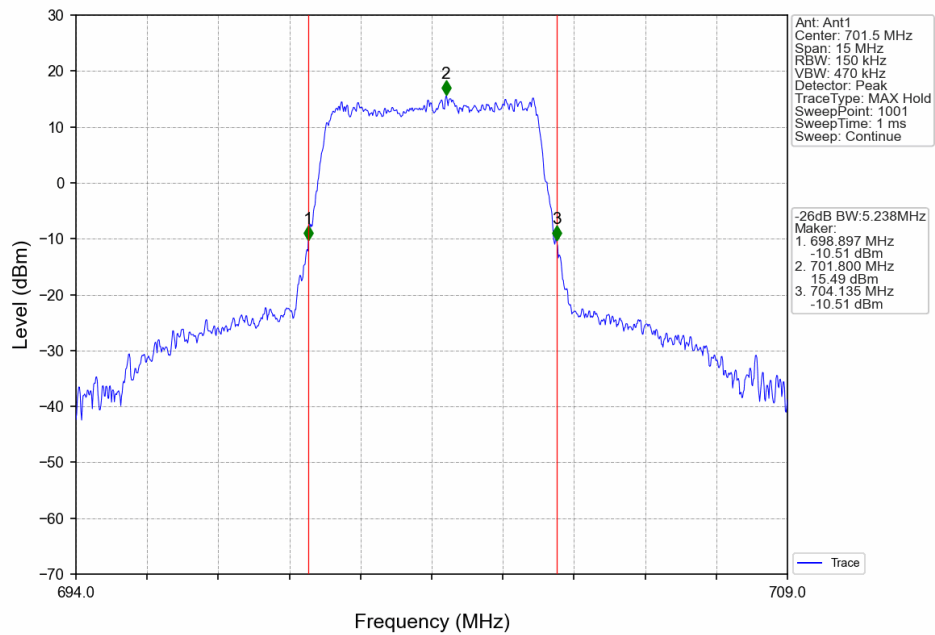
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



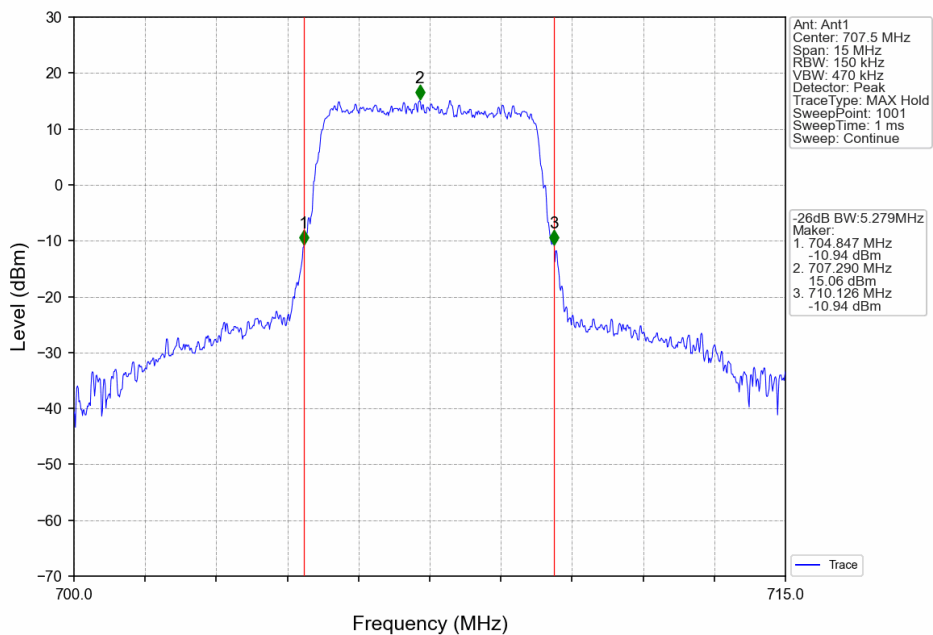
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



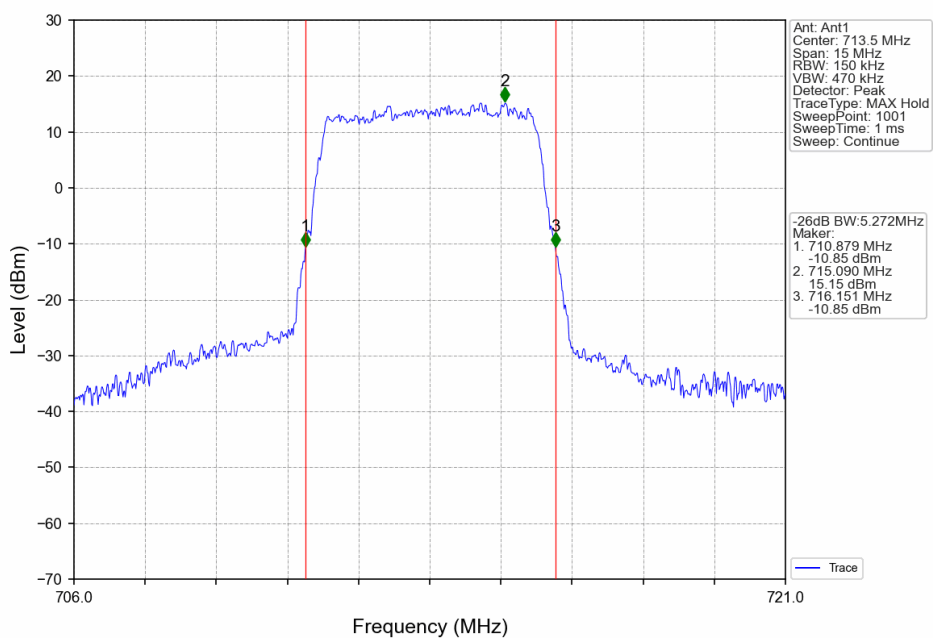
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



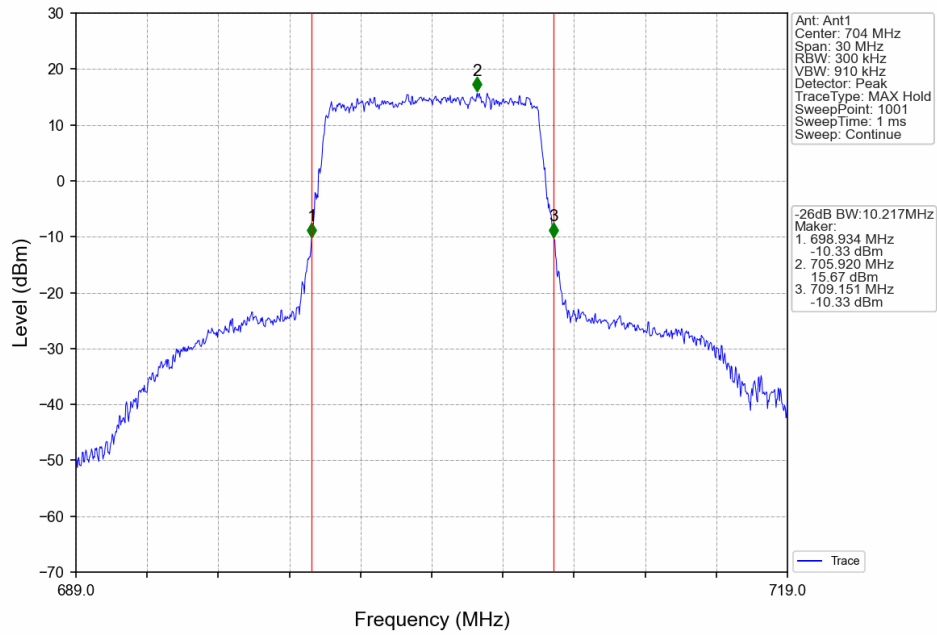
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



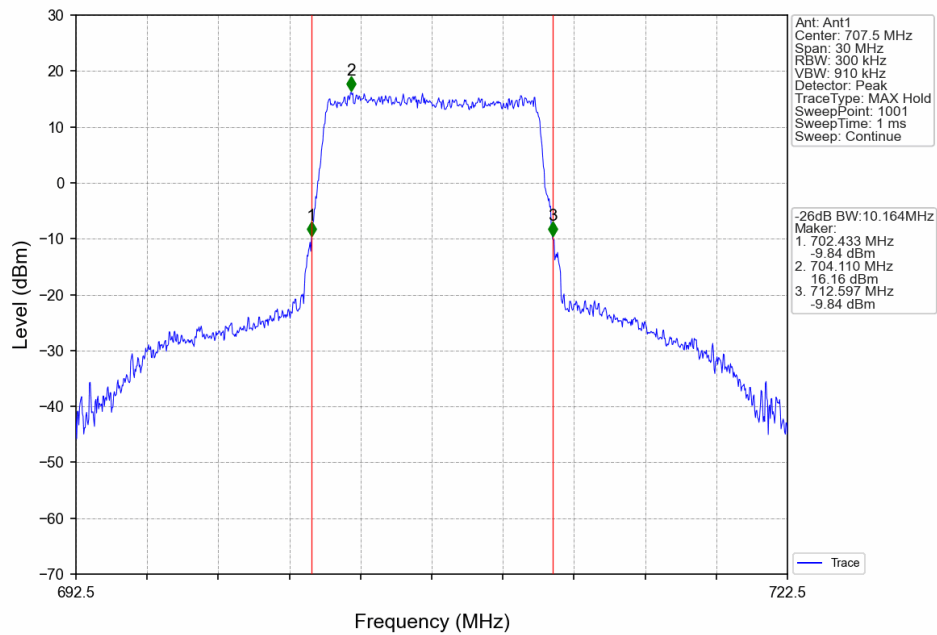
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



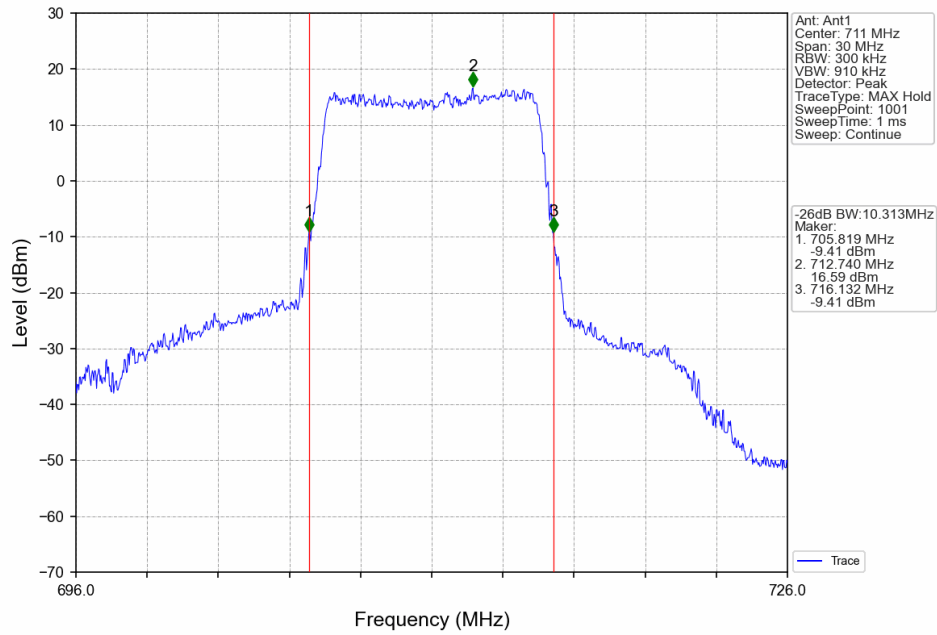
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



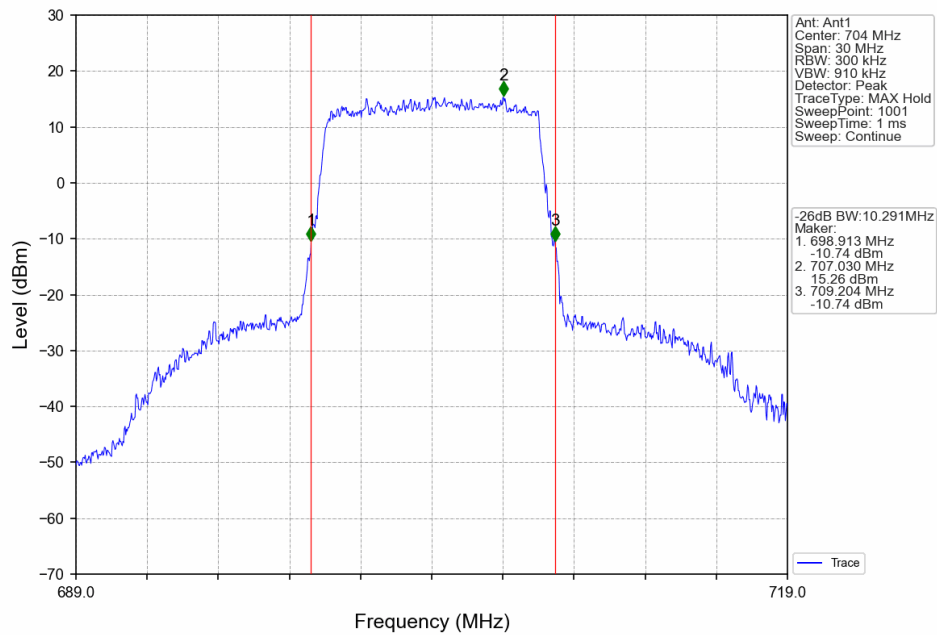
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



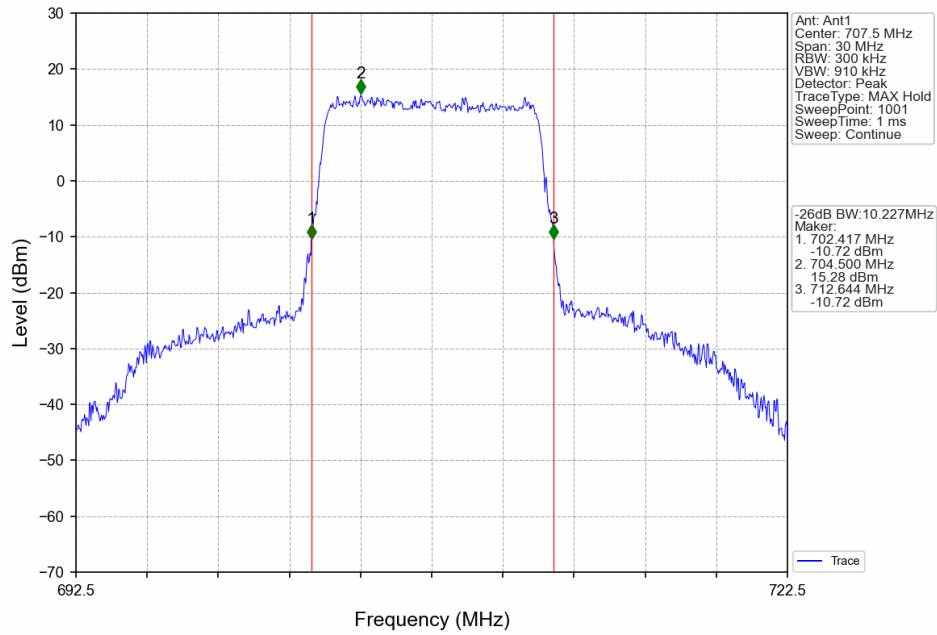
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



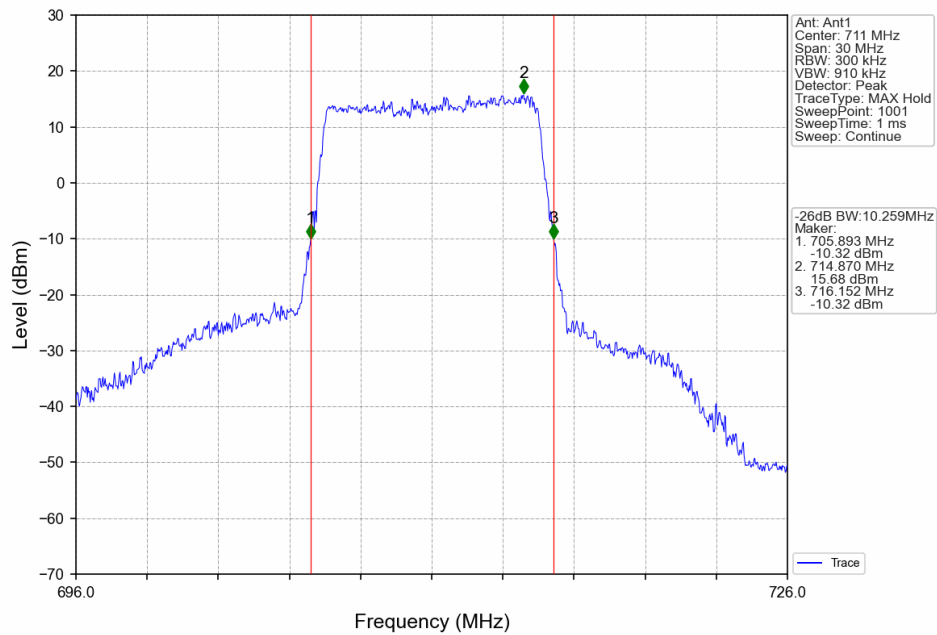
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



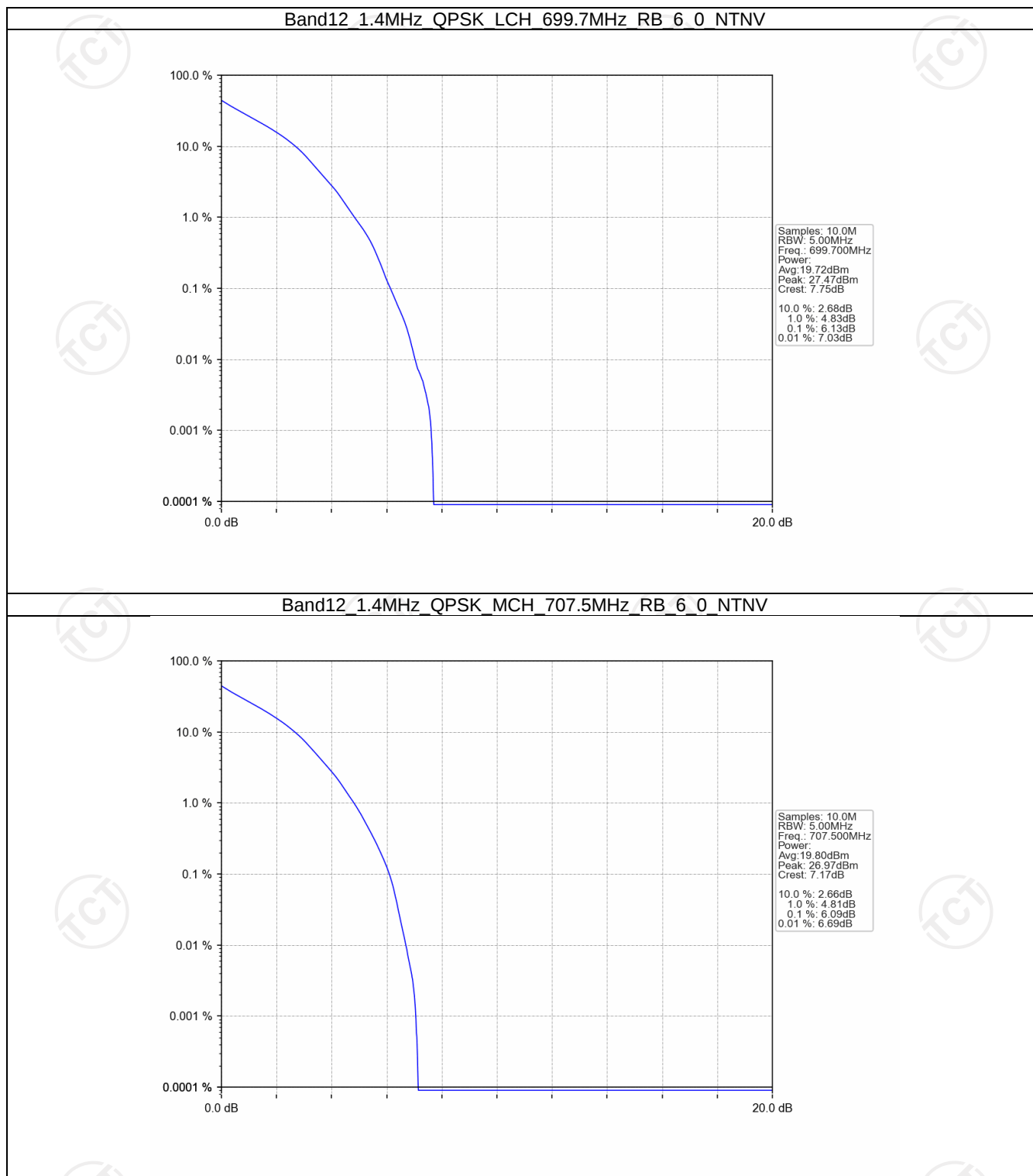
5. Peak-Average Ratio

5.1 B12_1.4MHz

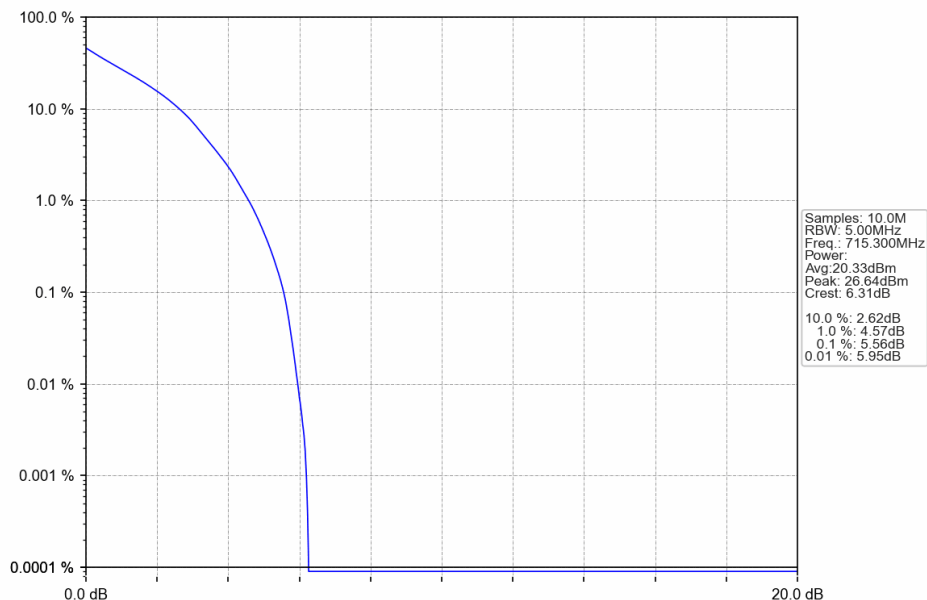
5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	6.13	<=13	Pass
	707.5	6	0	6.09	<=13	Pass
	715.3	6	0	5.56	<=13	Pass
16QAM	699.7	6	0	6.95	<=13	Pass
	707.5	6	0	6.80	<=13	Pass
	715.3	6	0	6.35	<=13	Pass

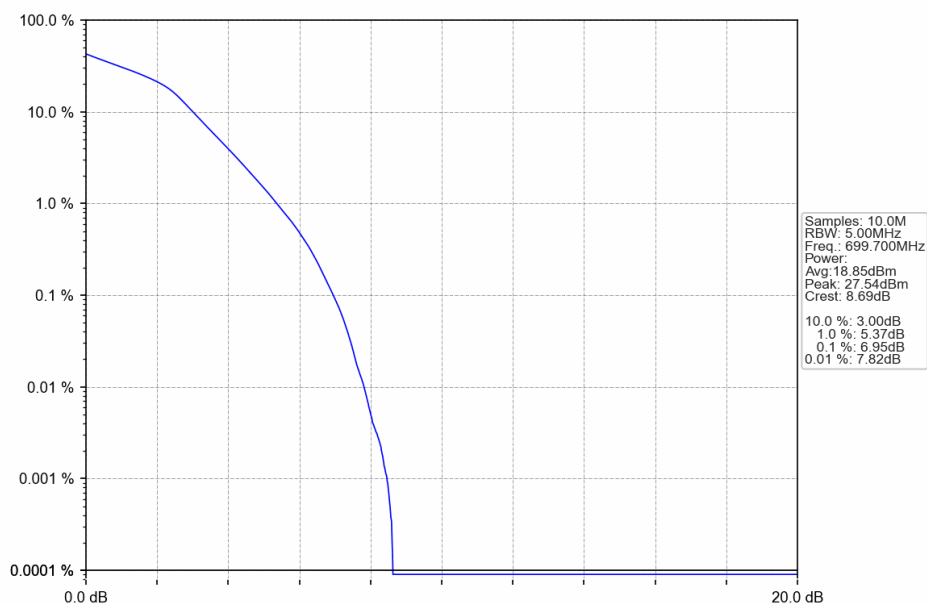
5.1.2 Test Graph



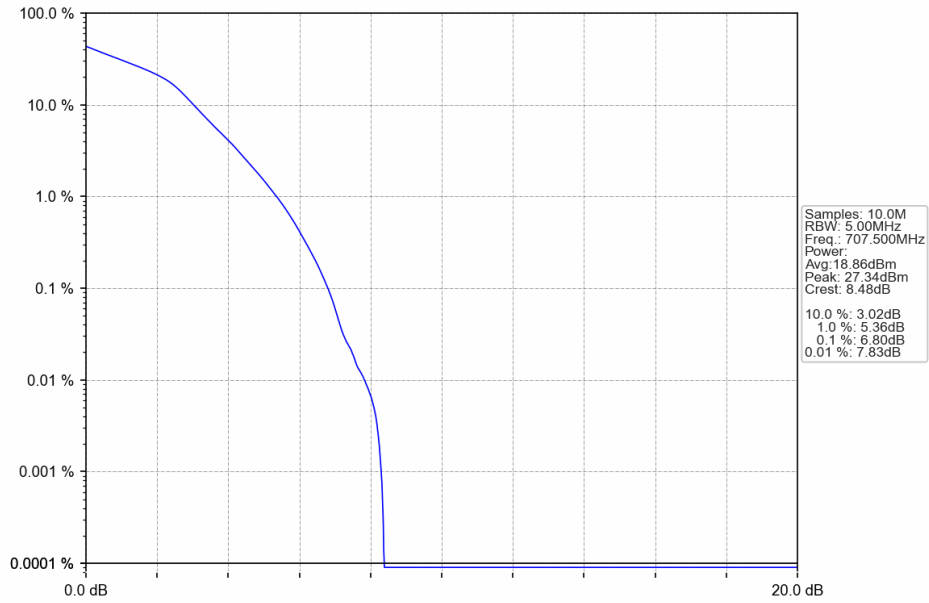
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



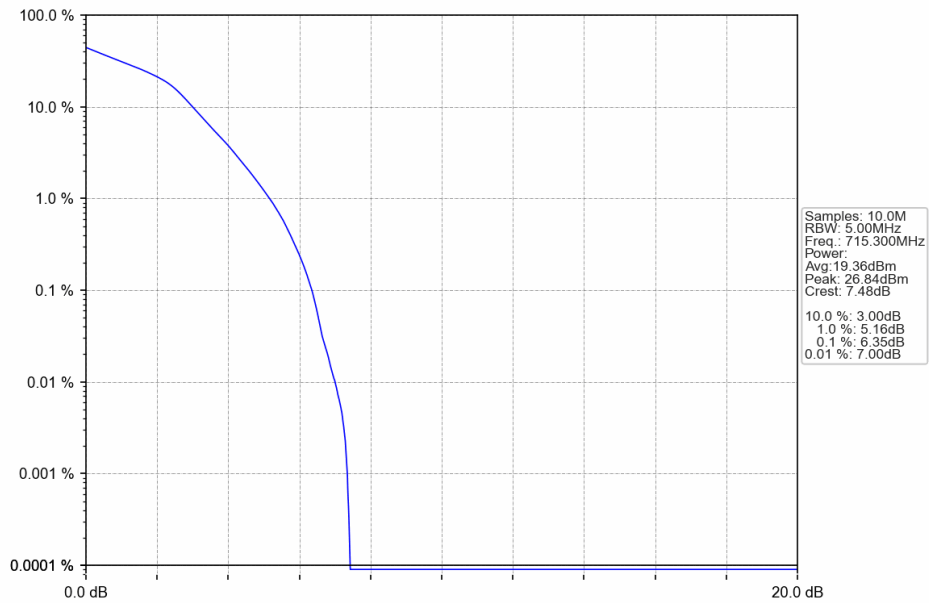
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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



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

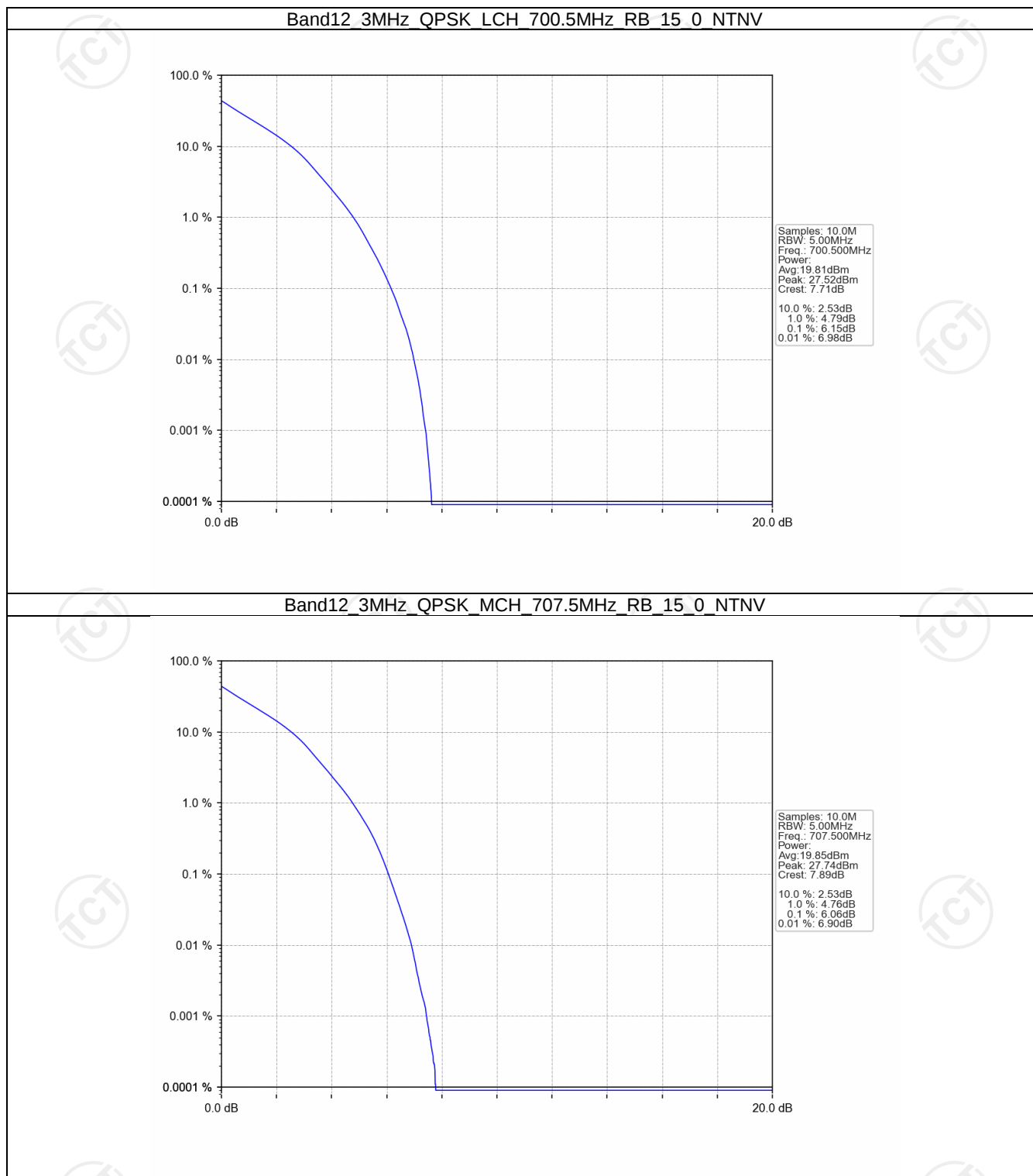


5.2 B12_3MHz

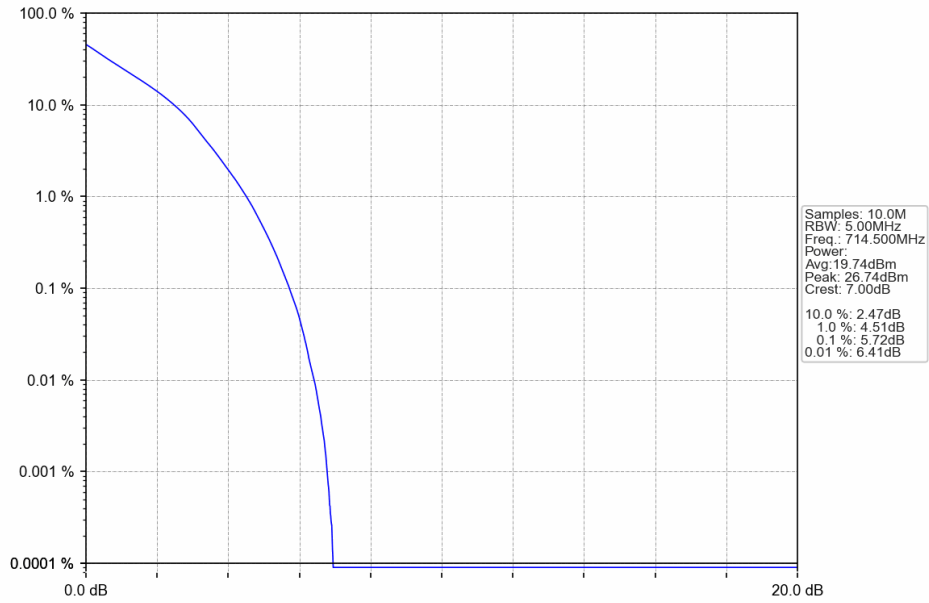
5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	6.15	<=13	Pass
	707.5	15	0	6.06	<=13	Pass
	714.5	15	0	5.72	<=13	Pass
16QAM	700.5	15	0	6.98	<=13	Pass
	707.5	15	0	6.84	<=13	Pass
	714.5	15	0	6.50	<=13	Pass

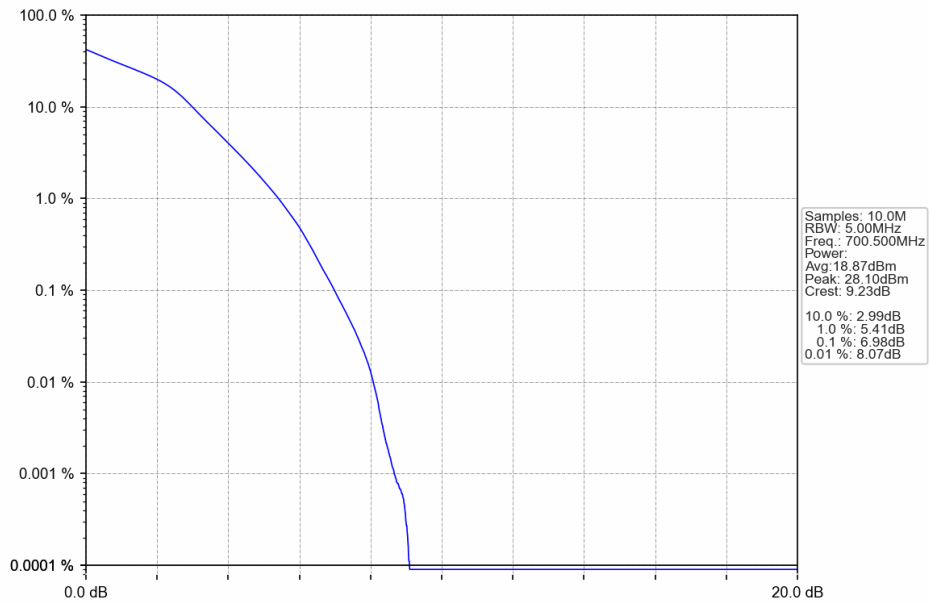
5.2.2 Test Graph



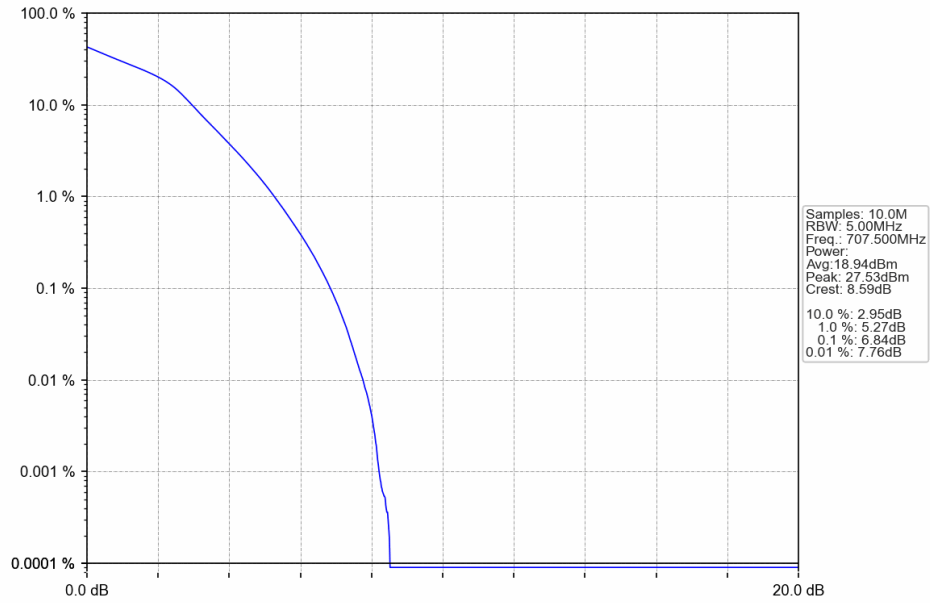
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



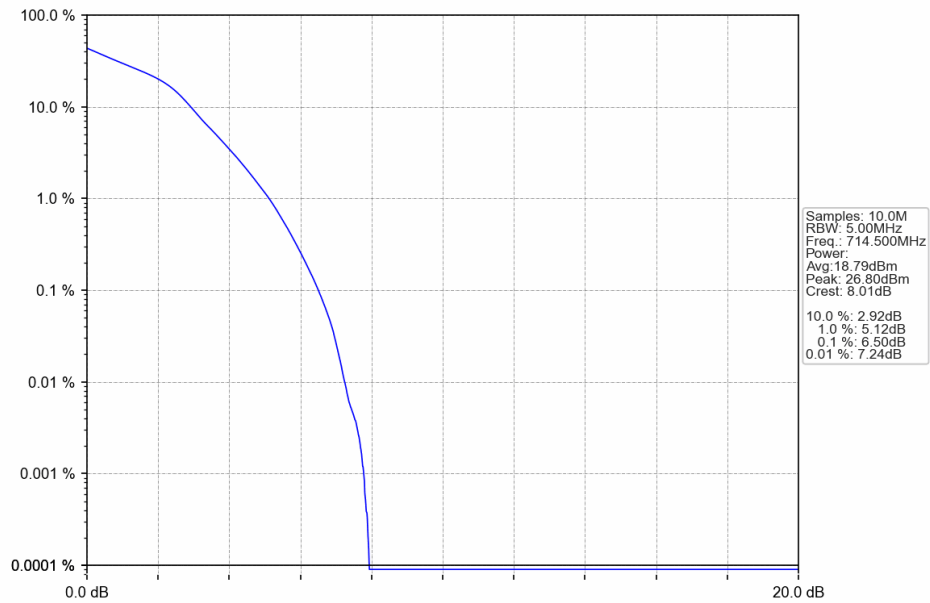
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



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 / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	6.15	<=13	Pass
	707.5	25	0	6.13	<=13	Pass
	713.5	25	0	5.86	<=13	Pass
16QAM	701.5	25	0	6.78	<=13	Pass
	707.5	25	0	6.78	<=13	Pass
	713.5	25	0	6.60	<=13	Pass

5.3.2 Test Graph

