

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	22.84	0.46	21.15	<=34.77	Pass		
			2	23.04	0.46	21.35	<=34.77	Pass		
			5	22.82	0.46	21.13	<=34.77	Pass		
		3	0	22.98	0.46	21.29	<=34.77	Pass		
			2	22.99	0.46	21.30	<=34.77	Pass		
			3	22.96	0.46	21.27	<=34.77	Pass		
		6	0	21.95	0.46	20.26	<=34.77	Pass		
		707.5	1	0	23.03	0.46	21.34	<=34.77	Pass	
				2	23.14	0.46	21.45	<=34.77	Pass	
	5			23.03	0.46	21.34	<=34.77	Pass		
	3		0	23.02	0.46	21.33	<=34.77	Pass		
			2	23.06	0.46	21.37	<=34.77	Pass		
			3	22.99	0.46	21.30	<=34.77	Pass		
	6		0	22.07	0.46	20.38	<=34.77	Pass		
	715.3		1	0	23.07	0.46	21.38	<=34.77	Pass	
				2	23.26	0.46	21.57	<=34.77	Pass	
		5		23.17	0.46	21.48	<=34.77	Pass		
		3	0	23.02	0.46	21.33	<=34.77	Pass		
			2	23.03	0.46	21.34	<=34.77	Pass		
			3	22.99	0.46	21.30	<=34.77	Pass		
		6	0	22.16	0.46	20.47	<=34.77	Pass		
		16QAM	699.7	1	0	21.88	0.46	20.19	<=34.77	Pass
					2	21.97	0.46	20.28	<=34.77	Pass
	5				21.92	0.46	20.23	<=34.77	Pass	
3	0			22.13	0.46	20.44	<=34.77	Pass		
	2			22.17	0.46	20.48	<=34.77	Pass		
	3			22.17	0.46	20.48	<=34.77	Pass		
6	0			20.94	0.46	19.25	<=34.77	Pass		
707.5	1			0	21.94	0.46	20.25	<=34.77	Pass	
				2	22.06	0.46	20.37	<=34.77	Pass	
			5	22.02	0.46	20.33	<=34.77	Pass		
	3		0	22.05	0.46	20.36	<=34.77	Pass		
			2	22.07	0.46	20.38	<=34.77	Pass		
			3	22.07	0.46	20.38	<=34.77	Pass		
	6		0	20.97	0.46	19.28	<=34.77	Pass		
	715.3		1	0	21.93	0.46	20.24	<=34.77	Pass	
				2	22.07	0.46	20.38	<=34.77	Pass	
5				21.99	0.46	20.30	<=34.77	Pass		
3			0	21.98	0.46	20.29	<=34.77	Pass		
			2	21.99	0.46	20.30	<=34.77	Pass		
			3	21.95	0.46	20.26	<=34.77	Pass		
6			0	20.98	0.46	19.29	<=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 / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	700.5	1	0	23.09	0.46	21.40	<=34.77	Pass		
			7	23.20	0.46	21.51	<=34.77	Pass		
			14	23.08	0.46	21.39	<=34.77	Pass		
		8	0	22.08	0.46	20.39	<=34.77	Pass		
			4	22.09	0.46	20.40	<=34.77	Pass		
			7	22.05	0.46	20.36	<=34.77	Pass		
		15	0	22.07	0.46	20.38	<=34.77	Pass		
		707.5	1	0	23.12	0.46	21.43	<=34.77	Pass	
				7	23.26	0.46	21.57	<=34.77	Pass	
	14			23.10	0.46	21.41	<=34.77	Pass		
	8		0	22.18	0.46	20.49	<=34.77	Pass		
			4	22.19	0.46	20.50	<=34.77	Pass		
			7	22.13	0.46	20.44	<=34.77	Pass		
	15		0	22.12	0.46	20.43	<=34.77	Pass		
	714.5		1	0	23.08	0.46	21.39	<=34.77	Pass	
				7	23.26	0.46	21.57	<=34.77	Pass	
		14		23.25	0.46	21.56	<=34.77	Pass		
		8	0	22.12	0.46	20.43	<=34.77	Pass		
			4	22.23	0.46	20.54	<=34.77	Pass		
			7	22.26	0.46	20.57	<=34.77	Pass		
		15	0	22.11	0.46	20.42	<=34.77	Pass		
		16QAM	700.5	1	0	22.07	0.46	20.38	<=34.77	Pass
					7	22.22	0.46	20.53	<=34.77	Pass
	14				22.07	0.46	20.38	<=34.77	Pass	
8	0			21.11	0.46	19.42	<=34.77	Pass		
	4			21.13	0.46	19.44	<=34.77	Pass		
	7			21.07	0.46	19.38	<=34.77	Pass		
15	0			21.10	0.46	19.41	<=34.77	Pass		
707.5	1			0	22.26	0.46	20.57	<=34.77	Pass	
				7	22.39	0.46	20.70	<=34.77	Pass	
			14	22.29	0.46	20.60	<=34.77	Pass		
	8		0	21.10	0.46	19.41	<=34.77	Pass		
			4	21.13	0.46	19.44	<=34.77	Pass		
			7	21.07	0.46	19.38	<=34.77	Pass		
	15		0	21.05	0.46	19.36	<=34.77	Pass		
	714.5		1	0	22.56	0.46	20.87	<=34.77	Pass	
				7	22.63	0.46	20.94	<=34.77	Pass	
14				22.44	0.46	20.75	<=34.77	Pass		
8			0	21.21	0.46	19.52	<=34.77	Pass		
			4	21.28	0.46	19.59	<=34.77	Pass		
			7	21.27	0.46	19.58	<=34.77	Pass		
15			0	21.11	0.46	19.42	<=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 / NTN

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	701.5	1	0	22.86	0.46	21.17	<=34.77	Pass		
			13	23.01	0.46	21.32	<=34.77	Pass		
			24	22.92	0.46	21.23	<=34.77	Pass		
		12	0	22.00	0.46	20.31	<=34.77	Pass		
			6	22.05	0.46	20.36	<=34.77	Pass		
			13	22.03	0.46	20.34	<=34.77	Pass		
		25	0	21.98	0.46	20.29	<=34.77	Pass		
		707.5	1	0	22.89	0.46	21.20	<=34.77	Pass	
				13	23.04	0.46	21.35	<=34.77	Pass	
	24			22.94	0.46	21.25	<=34.77	Pass		
	12		0	22.00	0.46	20.31	<=34.77	Pass		
			6	22.07	0.46	20.38	<=34.77	Pass		
			13	21.94	0.46	20.25	<=34.77	Pass		
	25		0	21.95	0.46	20.26	<=34.77	Pass		
	713.5		1	0	22.90	0.46	21.21	<=34.77	Pass	
				13	23.01	0.46	21.32	<=34.77	Pass	
		24		23.04	0.46	21.35	<=34.77	Pass		
		12	0	22.05	0.46	20.36	<=34.77	Pass		
			6	22.07	0.46	20.38	<=34.77	Pass		
			13	22.17	0.46	20.48	<=34.77	Pass		
		25	0	22.12	0.46	20.43	<=34.77	Pass		
		16QAM	701.5	1	0	21.95	0.46	20.26	<=34.77	Pass
					13	22.09	0.46	20.40	<=34.77	Pass
	24				22.00	0.46	20.31	<=34.77	Pass	
12	0			20.95	0.46	19.26	<=34.77	Pass		
	6			20.98	0.46	19.29	<=34.77	Pass		
	13			20.96	0.46	19.27	<=34.77	Pass		
25	0			20.97	0.46	19.28	<=34.77	Pass		
707.5	1			0	22.08	0.46	20.39	<=34.77	Pass	
				13	22.24	0.46	20.55	<=34.77	Pass	
			24	22.20	0.46	20.51	<=34.77	Pass		
	12		0	20.98	0.46	19.29	<=34.77	Pass		
			6	21.06	0.46	19.37	<=34.77	Pass		
			13	20.92	0.46	19.23	<=34.77	Pass		
	25		0	20.92	0.46	19.23	<=34.77	Pass		
	713.5		1	0	21.78	0.46	20.09	<=34.77	Pass	
				13	21.84	0.46	20.15	<=34.77	Pass	
24				21.77	0.46	20.08	<=34.77	Pass		
12			0	21.02	0.46	19.33	<=34.77	Pass		
			6	21.03	0.46	19.34	<=34.77	Pass		
			13	21.10	0.46	19.41	<=34.77	Pass		
25			0	21.14	0.46	19.45	<=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	22.88	0.46	21.19	<=34.77	Pass
			25	23.25	0.46	21.56	<=34.77	Pass

		25	49	23.07	0.46	21.38	<=34.77	Pass		
			0	21.97	0.46	20.28	<=34.77	Pass		
			13	22.05	0.46	20.36	<=34.77	Pass		
			25	22.07	0.46	20.38	<=34.77	Pass		
			50	22.02	0.46	20.33	<=34.77	Pass		
	707.5	1	0	22.89	0.46	21.20	<=34.77	Pass		
				25	23.22	0.46	21.53	<=34.77	Pass	
				49	23.00	0.46	21.31	<=34.77	Pass	
		25	0	21.87	0.46	20.18	<=34.77	Pass		
				13	22.08	0.46	20.39	<=34.77	Pass	
				25	21.83	0.46	20.14	<=34.77	Pass	
		50	21.87	0.46	20.18	<=34.77	Pass			
		711	1	0	22.98	0.46	21.29	<=34.77	Pass	
					25	23.21	0.46	21.52	<=34.77	Pass
	49				23.15	0.46	21.46	<=34.77	Pass	
	25		0	22.25	0.46	20.56	<=34.77	Pass		
				13	22.09	0.46	20.40	<=34.77	Pass	
				25	22.17	0.46	20.48	<=34.77	Pass	
	50		22.24	0.46	20.55	<=34.77	Pass			
	16QAM		704	1	0	21.91	0.46	20.22	<=34.77	Pass
					25	22.21	0.46	20.52	<=34.77	Pass
		49			22.05	0.46	20.36	<=34.77	Pass	
		25		0	21.03	0.46	19.34	<=34.77	Pass	
					13	21.12	0.46	19.43	<=34.77	Pass
					25	21.12	0.46	19.43	<=34.77	Pass
		50		21.06	0.46	19.37	<=34.77	Pass		
		707.5		1	0	22.05	0.46	20.36	<=34.77	Pass
25						22.34	0.46	20.65	<=34.77	Pass
49			22.21			0.46	20.52	<=34.77	Pass	
25			0	20.87	0.46	19.18	<=34.77	Pass		
				13	21.06	0.46	19.37	<=34.77	Pass	
				25	20.82	0.46	19.13	<=34.77	Pass	
50			20.83	0.46	19.14	<=34.77	Pass			
711			1	0	22.41	0.46	20.72	<=34.77	Pass	
					25	22.74	0.46	21.05	<=34.77	Pass
		49			22.42	0.46	20.73	<=34.77	Pass	
		25	0	21.30	0.46	19.61	<=34.77	Pass		
				13	21.16	0.46	19.47	<=34.77	Pass	
				25	21.17	0.46	19.48	<=34.77	Pass	
		50	21.20	0.46	19.51	<=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	-5.608	-0.0080	-2.5 to 2.5	Pass
							-0.0062	-2.5 to 2.5	Pass
							-0.0043	-2.5 to 2.5	Pass

				-30	3.85	-6.766	-0.0097	-2.5 to 2.5	Pass			
				-20	3.85	-3.633	-0.0052	-2.5 to 2.5	Pass			
				-10	3.85	-7.510	-0.0107	-2.5 to 2.5	Pass			
				0	3.85	-5.908	-0.0084	-2.5 to 2.5	Pass			
				10	3.85	-4.649	-0.0066	-2.5 to 2.5	Pass			
				30	3.85	-5.479	-0.0078	-2.5 to 2.5	Pass			
				40	3.85	-6.366	-0.0091	-2.5 to 2.5	Pass			
				50	3.85	-8.268	-0.0118	-2.5 to 2.5	Pass			
				20	3.27	-1.674	-0.0024	-2.5 to 2.5	Pass			
					3.85	-5.407	-0.0076	-2.5 to 2.5	Pass			
	4.43	-7.367	-0.0104		-2.5 to 2.5	Pass						
	707.5	6	0	-30	3.85	-3.519	-0.0050	-2.5 to 2.5	Pass			
				-20	3.85	-5.622	-0.0079	-2.5 to 2.5	Pass			
				-10	3.85	-8.941	-0.0126	-2.5 to 2.5	Pass			
				0	3.85	-5.021	-0.0071	-2.5 to 2.5	Pass			
				10	3.85	-5.722	-0.0081	-2.5 to 2.5	Pass			
				30	3.85	-4.120	-0.0058	-2.5 to 2.5	Pass			
				40	3.85	-3.190	-0.0045	-2.5 to 2.5	Pass			
				50	3.85	-4.992	-0.0071	-2.5 to 2.5	Pass			
				715.3	6	0	20	3.27	-4.292	-0.0060	-2.5 to 2.5	Pass
								3.85	-9.828	-0.0137	-2.5 to 2.5	Pass
	4.43	-4.749	-0.0066					-2.5 to 2.5	Pass			
	-30	3.85	-8.783				-0.0123	-2.5 to 2.5	Pass			
	-20	3.85	-3.476				-0.0049	-2.5 to 2.5	Pass			
	-10	3.85	-4.621				-0.0065	-2.5 to 2.5	Pass			
	0	3.85	-4.263				-0.0060	-2.5 to 2.5	Pass			
	10	3.85	-8.926				-0.0125	-2.5 to 2.5	Pass			
	30	3.85	-8.140				-0.0114	-2.5 to 2.5	Pass			
	40	3.85	-6.566				-0.0092	-2.5 to 2.5	Pass			
	50	3.85	-4.706	-0.0066	-2.5 to 2.5	Pass						
16QAM	699.7	6	0	20	3.27	-4.249	-0.0061	-2.5 to 2.5	Pass			
					3.85	-7.310	-0.0104	-2.5 to 2.5	Pass			
					4.43	-6.280	-0.0090	-2.5 to 2.5	Pass			
				-30	3.85	-7.038	-0.0101	-2.5 to 2.5	Pass			
				-20	3.85	-4.849	-0.0069	-2.5 to 2.5	Pass			
				-10	3.85	-8.755	-0.0125	-2.5 to 2.5	Pass			
				0	3.85	-6.981	-0.0100	-2.5 to 2.5	Pass			
				10	3.85	-7.052	-0.0101	-2.5 to 2.5	Pass			
				30	3.85	-6.981	-0.0100	-2.5 to 2.5	Pass			
				40	3.85	-8.097	-0.0116	-2.5 to 2.5	Pass			
	50	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass						
	707.5	6	0	20	3.27	-10.414	-0.0147	-2.5 to 2.5	Pass			
					3.85	-4.964	-0.0070	-2.5 to 2.5	Pass			
					4.43	-3.176	-0.0045	-2.5 to 2.5	Pass			
				-30	3.85	-6.609	-0.0093	-2.5 to 2.5	Pass			
				-20	3.85	-9.027	-0.0128	-2.5 to 2.5	Pass			
				-10	3.85	-2.146	-0.0030	-2.5 to 2.5	Pass			
				0	3.85	-8.225	-0.0116	-2.5 to 2.5	Pass			
				10	3.85	-6.137	-0.0087	-2.5 to 2.5	Pass			
				30	3.85	-7.896	-0.0112	-2.5 to 2.5	Pass			
				40	3.85	-4.663	-0.0066	-2.5 to 2.5	Pass			
	50	3.85	-5.178	-0.0073	-2.5 to 2.5	Pass						
	715.3	6	0	20	3.27	-4.849	-0.0068	-2.5 to 2.5	Pass			
					3.85	-1.373	-0.0019	-2.5 to 2.5	Pass			
					4.43	-6.108	-0.0085	-2.5 to 2.5	Pass			
				-30	3.85	-6.008	-0.0084	-2.5 to 2.5	Pass			
				-20	3.85	-9.227	-0.0129	-2.5 to 2.5	Pass			

				-10	3.85	-4.506	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-5.808	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-6.509	-0.0091	-2.5 to 2.5	Pass
				30	3.85	-5.121	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-5.121	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-10.529	-0.0147	-2.5 to 2.5	Pass

2.2 B12_3MHz

2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	-2.604	-0.0037	-2.5 to 2.5	Pass
					3.85	-8.826	-0.0126	-2.5 to 2.5	Pass
					4.43	-7.868	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-6.981	-0.0100	-2.5 to 2.5	Pass
				-20	3.85	-7.510	-0.0107	-2.5 to 2.5	Pass
				-10	3.85	-9.885	-0.0141	-2.5 to 2.5	Pass
				0	3.85	-6.967	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-6.967	-0.0099	-2.5 to 2.5	Pass
				30	3.85	-3.262	-0.0047	-2.5 to 2.5	Pass
				40	3.85	-7.367	-0.0105	-2.5 to 2.5	Pass
	50	3.85	-8.197	-0.0117	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	-3.119	-0.0044	-2.5 to 2.5	Pass
					3.85	-5.922	-0.0084	-2.5 to 2.5	Pass
					4.43	-7.052	-0.0100	-2.5 to 2.5	Pass
				-30	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-2.618	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-12.989	-0.0184	-2.5 to 2.5	Pass
				0	3.85	-3.462	-0.0049	-2.5 to 2.5	Pass
				10	3.85	-1.702	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-8.841	-0.0125	-2.5 to 2.5	Pass
				40	3.85	-4.663	-0.0066	-2.5 to 2.5	Pass
	50	3.85	-7.582	-0.0107	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-6.280	-0.0088	-2.5 to 2.5	Pass
					3.85	-5.922	-0.0083	-2.5 to 2.5	Pass
					4.43	-4.306	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-6.280	-0.0088	-2.5 to 2.5	Pass
				-10	3.85	-6.652	-0.0093	-2.5 to 2.5	Pass
				0	3.85	-7.968	-0.0112	-2.5 to 2.5	Pass
				10	3.85	-5.465	-0.0076	-2.5 to 2.5	Pass
30				3.85	-7.768	-0.0109	-2.5 to 2.5	Pass	
40				3.85	-8.354	-0.0117	-2.5 to 2.5	Pass	
50	3.85	-6.781	-0.0095	-2.5 to 2.5	Pass				
16QAM	700.5	15	0	20	3.27	-4.148	-0.0059	-2.5 to 2.5	Pass
					3.85	-8.955	-0.0128	-2.5 to 2.5	Pass
					4.43	-7.067	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-4.921	-0.0070	-2.5 to 2.5	Pass
				-20	3.85	-9.942	-0.0142	-2.5 to 2.5	Pass
				-10	3.85	-6.881	-0.0098	-2.5 to 2.5	Pass
				0	3.85	-7.668	-0.0109	-2.5 to 2.5	Pass
10	3.85	-10.386	-0.0148	-2.5 to 2.5	Pass				

	707.5	15	0	30	3.85	-7.997	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-3.834	-0.0055	-2.5 to 2.5	Pass
				50	3.85	-3.777	-0.0054	-2.5 to 2.5	Pass
				20	3.27	-5.622	-0.0079	-2.5 to 2.5	Pass
					3.85	-8.254	-0.0117	-2.5 to 2.5	Pass
					4.43	-5.150	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-11.702	-0.0165	-2.5 to 2.5	Pass
				-10	3.85	-7.324	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
	10	3.85	-9.713	-0.0137	-2.5 to 2.5	Pass			
	30	3.85	-4.706	-0.0067	-2.5 to 2.5	Pass			
	40	3.85	-3.748	-0.0053	-2.5 to 2.5	Pass			
	50	3.85	-2.017	-0.0029	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-6.108	-0.0085	-2.5 to 2.5	Pass
					3.85	-8.140	-0.0114	-2.5 to 2.5	Pass
					4.43	-4.277	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-7.911	-0.0111	-2.5 to 2.5	Pass
				-20	3.85	-5.922	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-7.453	-0.0104	-2.5 to 2.5	Pass
0				3.85	-5.336	-0.0075	-2.5 to 2.5	Pass	
10				3.85	-6.523	-0.0091	-2.5 to 2.5	Pass	
30				3.85	-7.124	-0.0100	-2.5 to 2.5	Pass	
40				3.85	-7.482	-0.0105	-2.5 to 2.5	Pass	
50	3.85	-3.548	-0.0050	-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	-0.587	-0.0008	-2.5 to 2.5	Pass
					3.85	-6.752	-0.0096	-2.5 to 2.5	Pass
					4.43	-7.710	-0.0110	-2.5 to 2.5	Pass
				-30	3.85	-9.584	-0.0137	-2.5 to 2.5	Pass
				-20	3.85	-6.781	-0.0097	-2.5 to 2.5	Pass
				-10	3.85	-5.751	-0.0082	-2.5 to 2.5	Pass
				0	3.85	-6.180	-0.0088	-2.5 to 2.5	Pass
				10	3.85	-4.277	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-6.680	-0.0095	-2.5 to 2.5	Pass
				40	3.85	-4.649	-0.0066	-2.5 to 2.5	Pass
	50	3.85	-4.234	-0.0060	-2.5 to 2.5	Pass			
	707.5	25	0	20	3.27	-6.237	-0.0088	-2.5 to 2.5	Pass
					3.85	-4.978	-0.0070	-2.5 to 2.5	Pass
					4.43	-6.266	-0.0089	-2.5 to 2.5	Pass
				-30	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-3.791	-0.0054	-2.5 to 2.5	Pass
				0	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
				10	3.85	-6.895	-0.0097	-2.5 to 2.5	Pass
				30	3.85	-8.941	-0.0126	-2.5 to 2.5	Pass
40				3.85	-5.078	-0.0072	-2.5 to 2.5	Pass	
50	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass				

	713.5	25	0	20	3.27	-7.310	-0.0102	-2.5 to 2.5	Pass				
					3.85	-6.580	-0.0092	-2.5 to 2.5	Pass				
					4.43	-5.479	-0.0077	-2.5 to 2.5	Pass				
								-30	3.85	-8.311	-0.0116	-2.5 to 2.5	Pass
								-20	3.85	-9.813	-0.0138	-2.5 to 2.5	Pass
								-10	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
								0	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass
								10	3.85	-6.680	-0.0094	-2.5 to 2.5	Pass
								30	3.85	-6.309	-0.0088	-2.5 to 2.5	Pass
								40	3.85	-6.151	-0.0086	-2.5 to 2.5	Pass
50	3.85	-7.124	-0.0100	-2.5 to 2.5	Pass								
16QAM	701.5	25	0	20	3.27	-6.795	-0.0097	-2.5 to 2.5	Pass				
					3.85	-7.796	-0.0111	-2.5 to 2.5	Pass				
					4.43	-3.934	-0.0056	-2.5 to 2.5	Pass				
								-30	3.85	-3.548	-0.0051	-2.5 to 2.5	Pass
								-20	3.85	-4.120	-0.0059	-2.5 to 2.5	Pass
								-10	3.85	-6.351	-0.0091	-2.5 to 2.5	Pass
								0	3.85	-9.928	-0.0142	-2.5 to 2.5	Pass
								10	3.85	-4.935	-0.0070	-2.5 to 2.5	Pass
								30	3.85	-4.778	-0.0068	-2.5 to 2.5	Pass
								40	3.85	-8.426	-0.0120	-2.5 to 2.5	Pass
	50	3.85	-9.613	-0.0137	-2.5 to 2.5	Pass							
	707.5	25	0	20	3.27	-5.808	-0.0082	-2.5 to 2.5	Pass				
					3.85	-7.238	-0.0102	-2.5 to 2.5	Pass				
					4.43	-4.134	-0.0058	-2.5 to 2.5	Pass				
								-30	3.85	-7.310	-0.0103	-2.5 to 2.5	Pass
								-20	3.85	-6.008	-0.0085	-2.5 to 2.5	Pass
								-10	3.85	-2.704	-0.0038	-2.5 to 2.5	Pass
								0	3.85	-3.977	-0.0056	-2.5 to 2.5	Pass
								10	3.85	-5.808	-0.0082	-2.5 to 2.5	Pass
								30	3.85	-3.076	-0.0043	-2.5 to 2.5	Pass
								40	3.85	-6.924	-0.0098	-2.5 to 2.5	Pass
	50	3.85	-4.821	-0.0068	-2.5 to 2.5	Pass							
	713.5	25	0	20	3.27	-6.237	-0.0087	-2.5 to 2.5	Pass				
					3.85	-7.424	-0.0104	-2.5 to 2.5	Pass				
					4.43	-3.819	-0.0054	-2.5 to 2.5	Pass				
								-30	3.85	-7.024	-0.0098	-2.5 to 2.5	Pass
								-20	3.85	-6.194	-0.0087	-2.5 to 2.5	Pass
								-10	3.85	-7.467	-0.0105	-2.5 to 2.5	Pass
								0	3.85	-6.981	-0.0098	-2.5 to 2.5	Pass
								10	3.85	-6.452	-0.0090	-2.5 to 2.5	Pass
30								3.85	-5.136	-0.0072	-2.5 to 2.5	Pass	
40								3.85	-7.424	-0.0104	-2.5 to 2.5	Pass	
50	3.85	-8.869	-0.0124	-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	-9.456	-0.0134	-2.5 to 2.5	Pass
					3.85	-7.453	-0.0106	-2.5 to 2.5	Pass
					4.43	-5.336	-0.0076	-2.5 to 2.5	Pass

				-30	3.85	-4.506	-0.0064	-2.5 to 2.5	Pass			
				-20	3.85	-6.509	-0.0092	-2.5 to 2.5	Pass			
				-10	3.85	-8.597	-0.0122	-2.5 to 2.5	Pass			
				0	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass			
				10	3.85	-7.882	-0.0112	-2.5 to 2.5	Pass			
				30	3.85	-8.311	-0.0118	-2.5 to 2.5	Pass			
				40	3.85	-9.069	-0.0129	-2.5 to 2.5	Pass			
				50	3.85	-6.609	-0.0094	-2.5 to 2.5	Pass			
				707.5	50	0	20	3.27	-3.991	-0.0056	-2.5 to 2.5	Pass
								3.85	-7.896	-0.0112	-2.5 to 2.5	Pass
	4.43	-5.379	-0.0076					-2.5 to 2.5	Pass			
	-30	3.85	-8.154				-0.0115	-2.5 to 2.5	Pass			
	-20	3.85	-2.260				-0.0032	-2.5 to 2.5	Pass			
	-10	3.85	-8.168				-0.0115	-2.5 to 2.5	Pass			
	0	3.85	-5.436				-0.0077	-2.5 to 2.5	Pass			
	10	3.85	-6.323				-0.0089	-2.5 to 2.5	Pass			
	30	3.85	-7.725				-0.0109	-2.5 to 2.5	Pass			
	40	3.85	-4.964				-0.0070	-2.5 to 2.5	Pass			
	50	3.85	-6.709	-0.0095	-2.5 to 2.5	Pass						
	711	50	0	20	3.27	-6.022	-0.0085	-2.5 to 2.5	Pass			
					3.85	-9.713	-0.0137	-2.5 to 2.5	Pass			
					4.43	-6.952	-0.0098	-2.5 to 2.5	Pass			
				-30	3.85	-7.668	-0.0108	-2.5 to 2.5	Pass			
				-20	3.85	-6.623	-0.0093	-2.5 to 2.5	Pass			
				-10	3.85	-3.705	-0.0052	-2.5 to 2.5	Pass			
				0	3.85	-7.110	-0.0100	-2.5 to 2.5	Pass			
				10	3.85	-6.409	-0.0090	-2.5 to 2.5	Pass			
				30	3.85	-7.482	-0.0105	-2.5 to 2.5	Pass			
				40	3.85	-6.409	-0.0090	-2.5 to 2.5	Pass			
	50	3.85	-2.718	-0.0038	-2.5 to 2.5	Pass						
16QAM	704	50	0	20	3.27	-9.942	-0.0141	-2.5 to 2.5	Pass			
					3.85	-8.669	-0.0123	-2.5 to 2.5	Pass			
					4.43	-7.825	-0.0111	-2.5 to 2.5	Pass			
				-30	3.85	-10.128	-0.0144	-2.5 to 2.5	Pass			
				-20	3.85	-5.922	-0.0084	-2.5 to 2.5	Pass			
				-10	3.85	-6.266	-0.0089	-2.5 to 2.5	Pass			
				0	3.85	-6.094	-0.0087	-2.5 to 2.5	Pass			
				10	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass			
				30	3.85	-7.310	-0.0104	-2.5 to 2.5	Pass			
				40	3.85	-4.206	-0.0060	-2.5 to 2.5	Pass			
	50	3.85	-6.394	-0.0091	-2.5 to 2.5	Pass						
	707.5	50	0	20	3.27	-3.548	-0.0050	-2.5 to 2.5	Pass			
					3.85	-6.623	-0.0094	-2.5 to 2.5	Pass			
					4.43	-6.108	-0.0086	-2.5 to 2.5	Pass			
				-30	3.85	-5.622	-0.0079	-2.5 to 2.5	Pass			
				-20	3.85	-5.922	-0.0084	-2.5 to 2.5	Pass			
				-10	3.85	-7.524	-0.0106	-2.5 to 2.5	Pass			
				0	3.85	-6.094	-0.0086	-2.5 to 2.5	Pass			
				10	3.85	-6.809	-0.0096	-2.5 to 2.5	Pass			
				30	3.85	-8.254	-0.0117	-2.5 to 2.5	Pass			
				40	3.85	-8.183	-0.0116	-2.5 to 2.5	Pass			
	50	3.85	-7.939	-0.0112	-2.5 to 2.5	Pass						
	711	50	0	20	3.27	-4.721	-0.0066	-2.5 to 2.5	Pass			
					3.85	-5.980	-0.0084	-2.5 to 2.5	Pass			
					4.43	-8.955	-0.0126	-2.5 to 2.5	Pass			
				-30	3.85	-7.081	-0.0100	-2.5 to 2.5	Pass			
				-20	3.85	-4.106	-0.0058	-2.5 to 2.5	Pass			

				-10	3.85	-5.536	-0.0078	-2.5 to 2.5	Pass
				0	3.85	-5.608	-0.0079	-2.5 to 2.5	Pass
				10	3.85	-7.753	-0.0109	-2.5 to 2.5	Pass
				30	3.85	-7.052	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-7.553	-0.0106	-2.5 to 2.5	Pass
				50	3.85	-5.937	-0.0084	-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

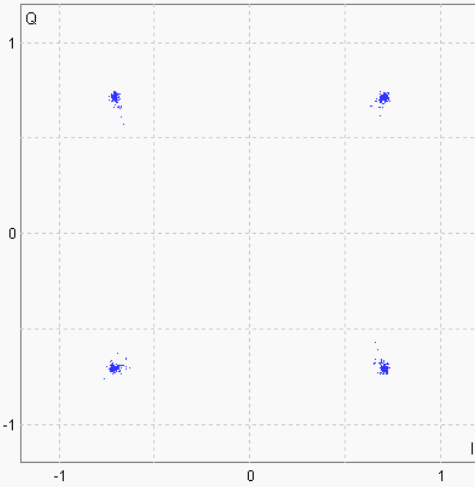
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

CMW 500 V 3.7.22 - LTE Measurement 1 - V3.7.30 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 707.5 MHz Ref. Level: 41.00 dBm BW: 1.4 MHz CP: Normal Meas Subfr./Slot: 0 / All

IQ Constellation



Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE

Multi Evaluation **RDY**

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling **Run**

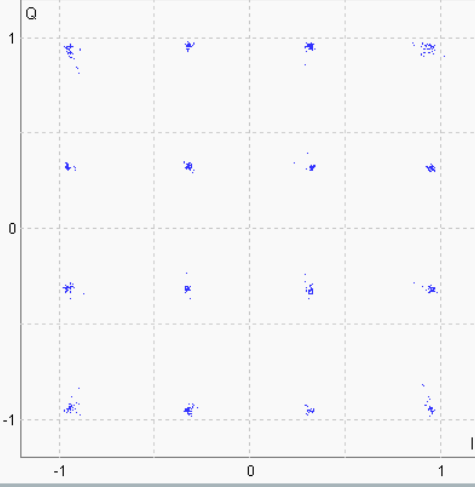
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV

CMW 500 V 3.7.22 - LTE Measurement 1 - V3.7.30 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 707.5 MHz Ref. Level: 41.00 dBm BW: 1.4 MHz CP: Normal Meas Subfr./Slot: 0 / All

IQ Constellation



Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 16-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE

Multi Evaluation **RDY**

RF Settings

Trigger

Display

Signaling Parameter

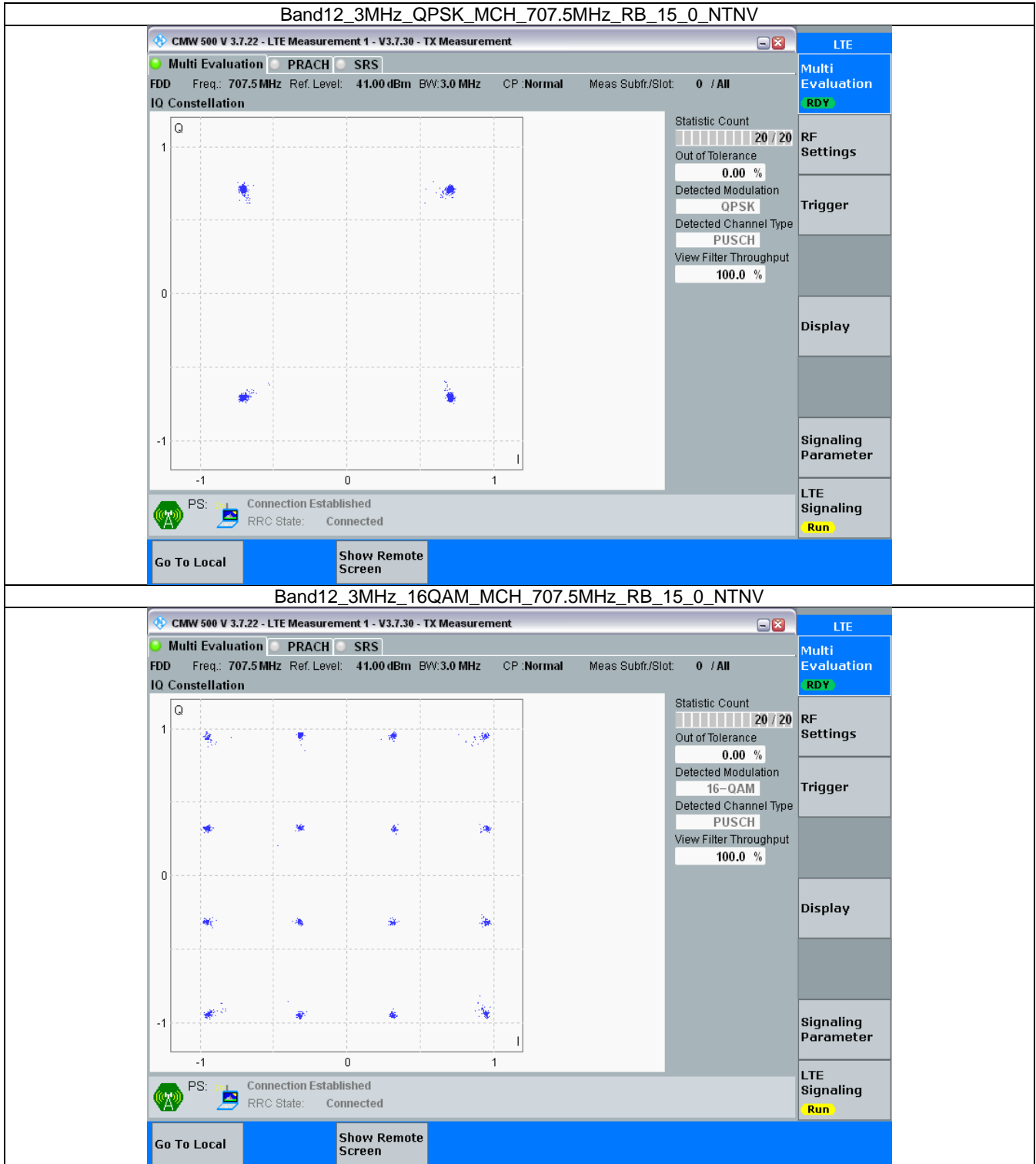
LTE Signaling **Run**

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

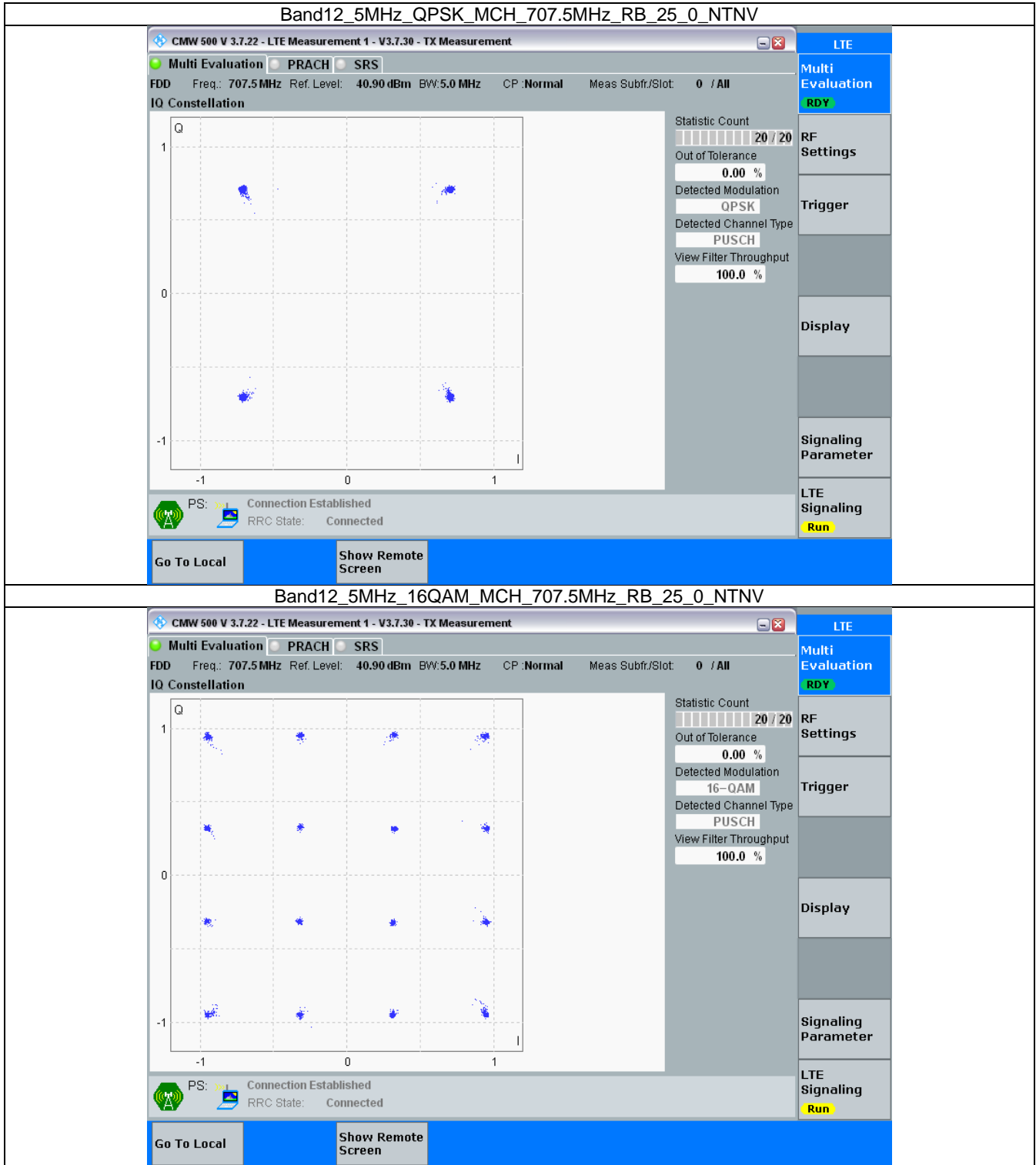


3.3 B12_5MHz

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

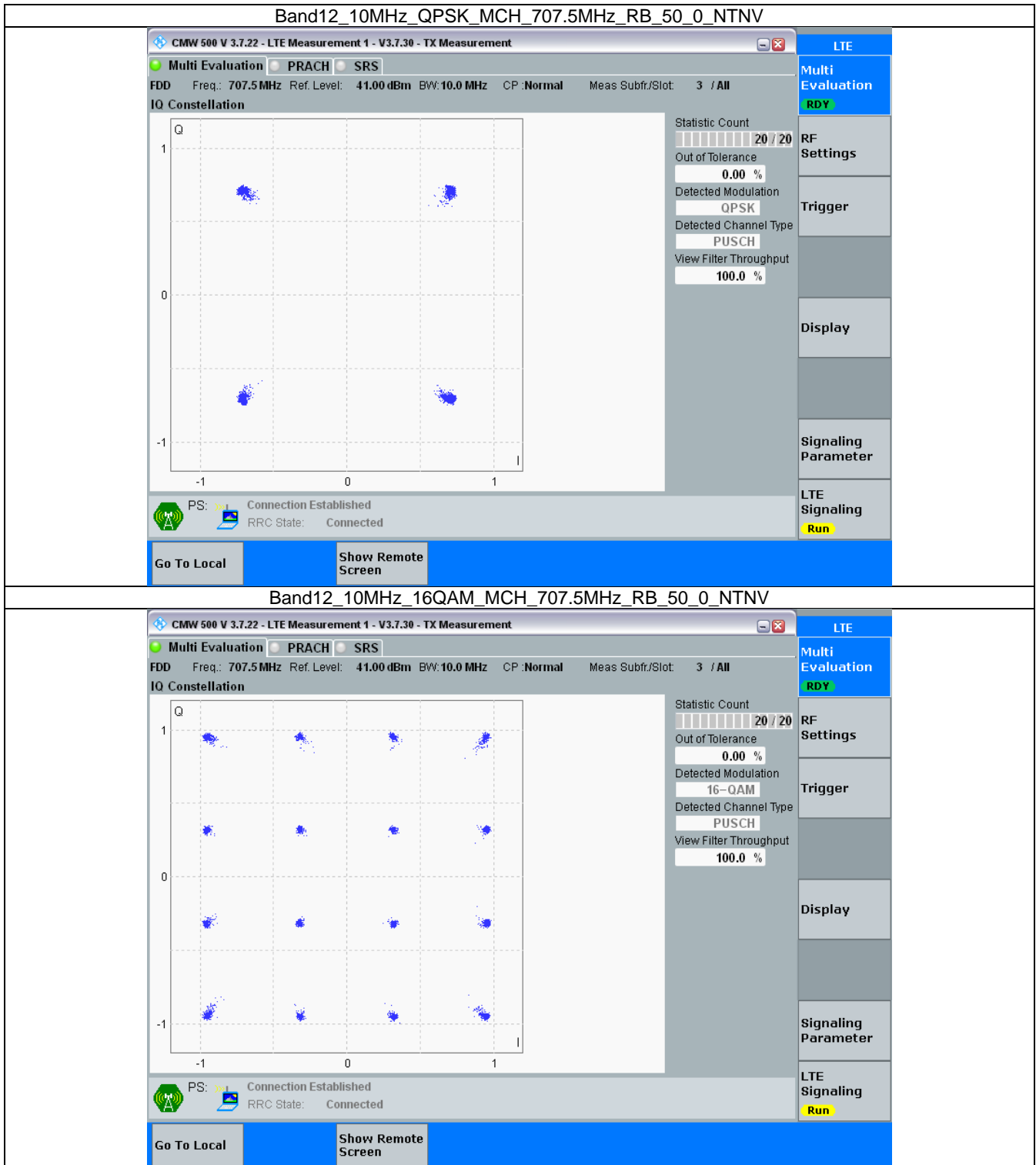


3.4 B12_10MHz

3.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / 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



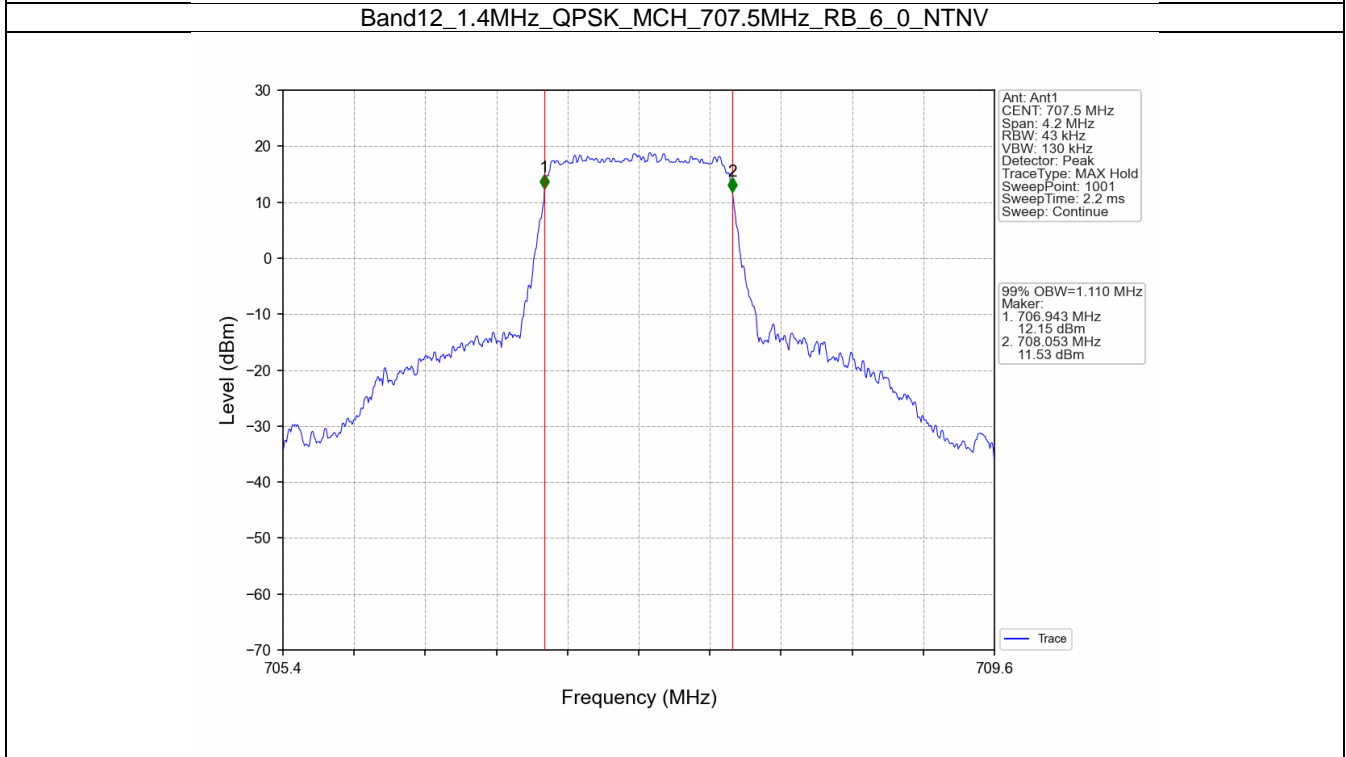
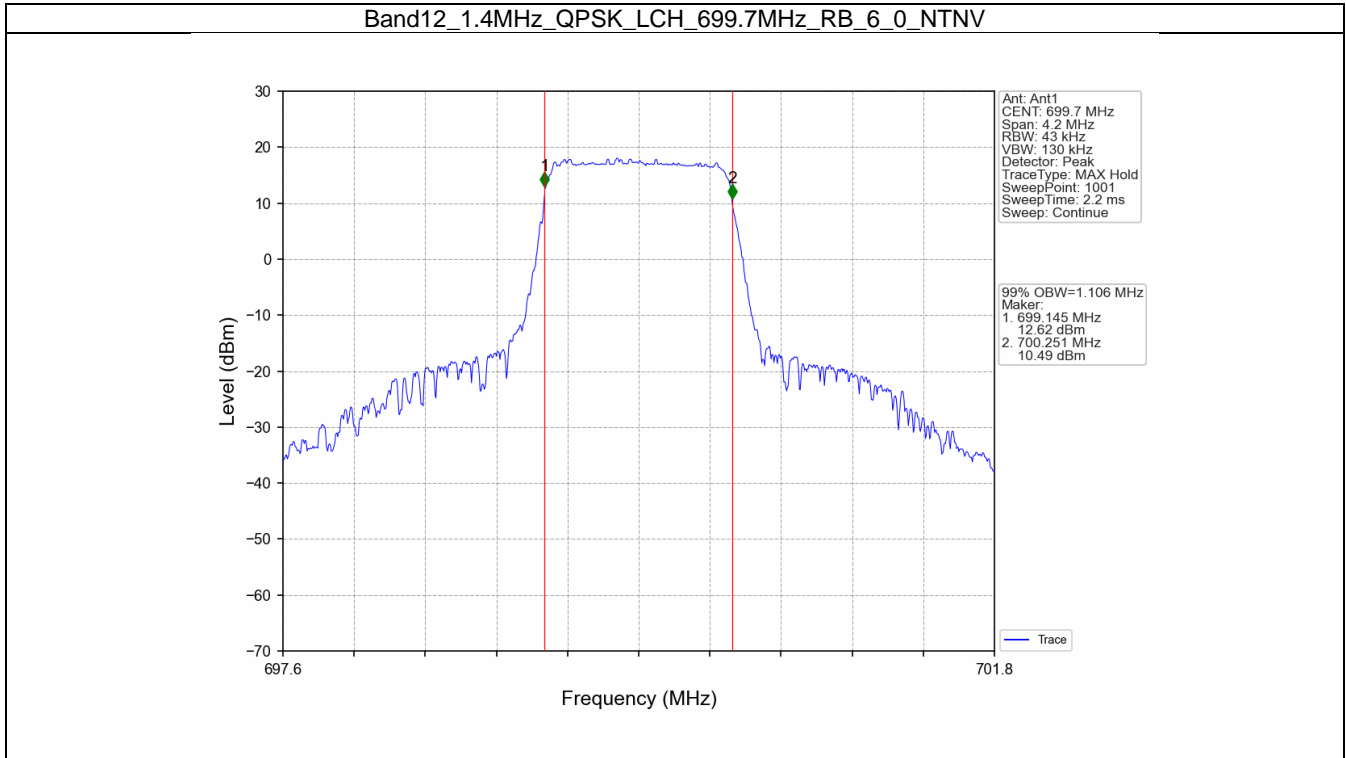
4. 99% & 26dB Bandwidth

4.1 Band12_OBW

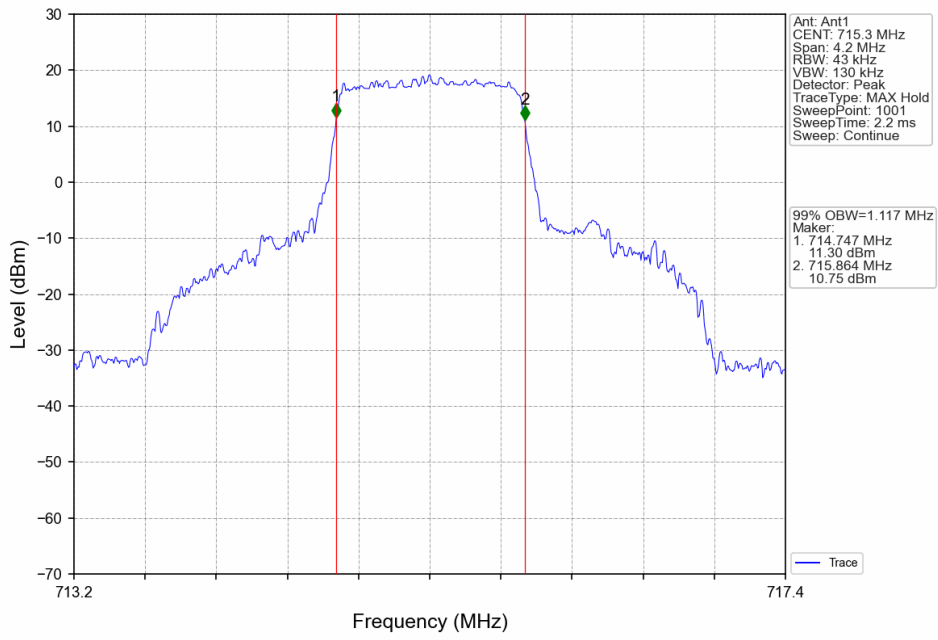
4.1.1 Test Result

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	1.106	Pass
		707.5	6	0	1.110	Pass
		715.3	6	0	1.117	Pass
	16QAM	699.7	6	0	1.114	Pass
		707.5	6	0	1.112	Pass
		715.3	6	0	1.109	Pass
3	QPSK	700.5	15	0	2.731	Pass
		707.5	15	0	2.731	Pass
		714.5	15	0	2.736	Pass
	16QAM	700.5	15	0	2.721	Pass
		707.5	15	0	2.730	Pass
		714.5	15	0	2.731	Pass
5	QPSK	701.5	25	0	4.575	Pass
		707.5	25	0	4.550	Pass
		713.5	25	0	4.595	Pass
	16QAM	701.5	25	0	4.592	Pass
		707.5	25	0	4.573	Pass
		713.5	25	0	4.598	Pass
10	QPSK	704	50	0	9.075	Pass
		707.5	50	0	9.002	Pass
		711	50	0	9.137	Pass
	16QAM	704	50	0	9.080	Pass
		707.5	50	0	9.005	Pass
		711	50	0	9.127	Pass

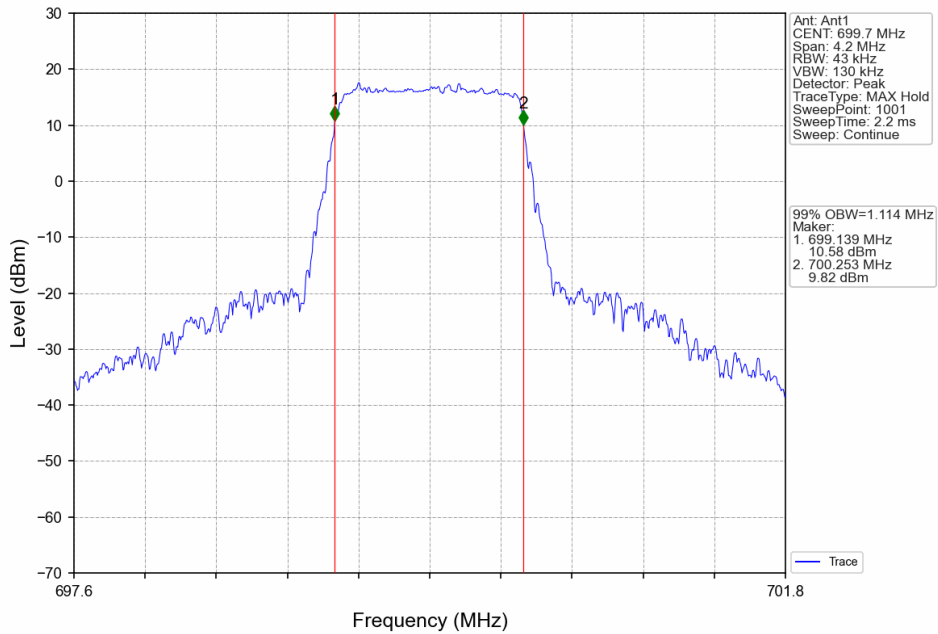
4.1.2 Test Graph



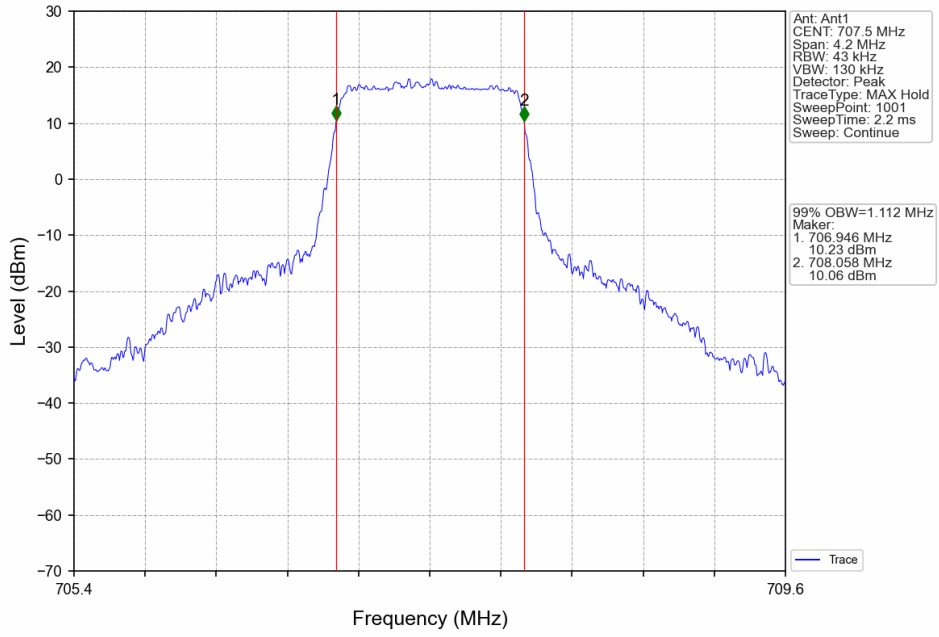
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



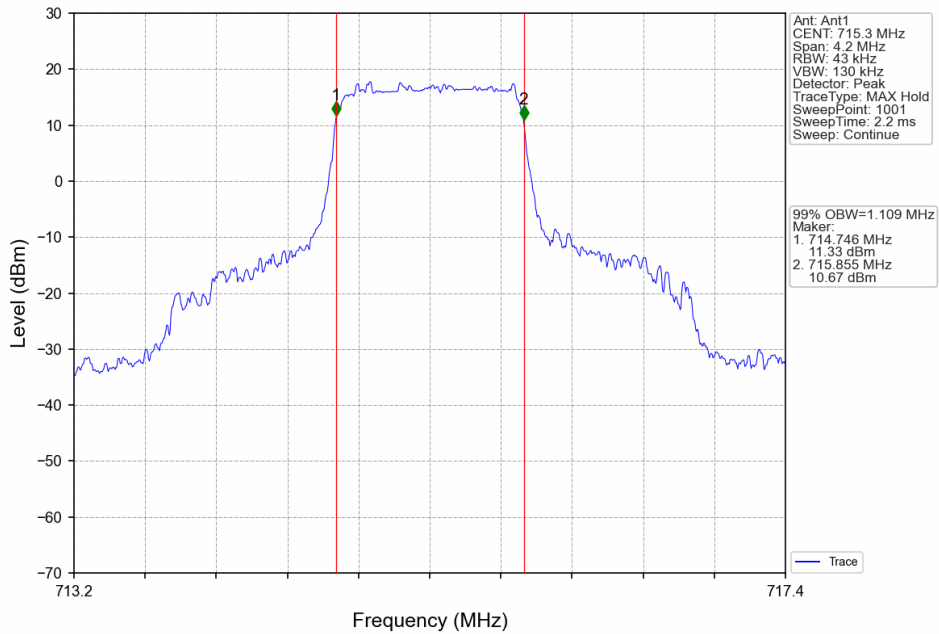
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



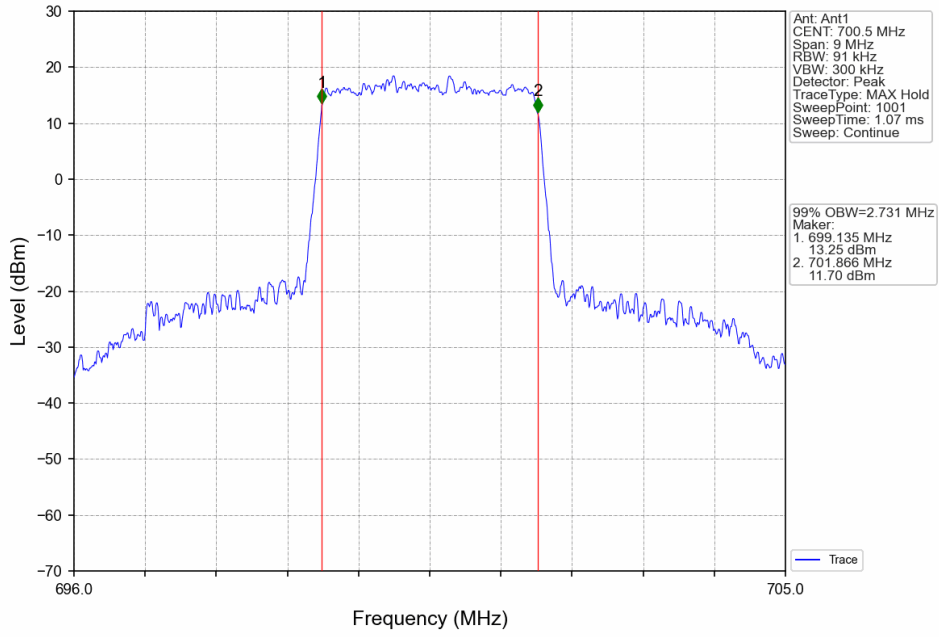
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



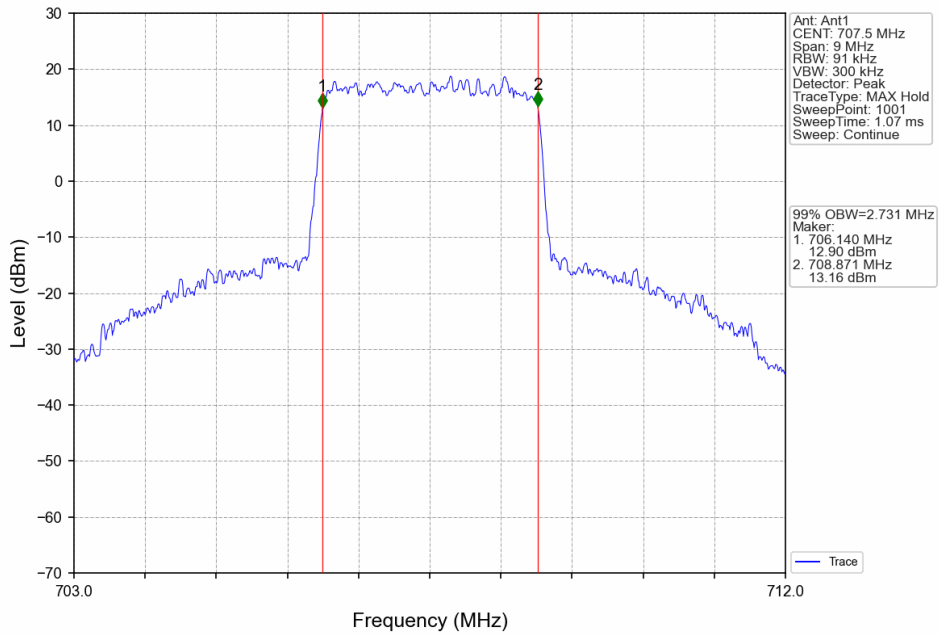
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



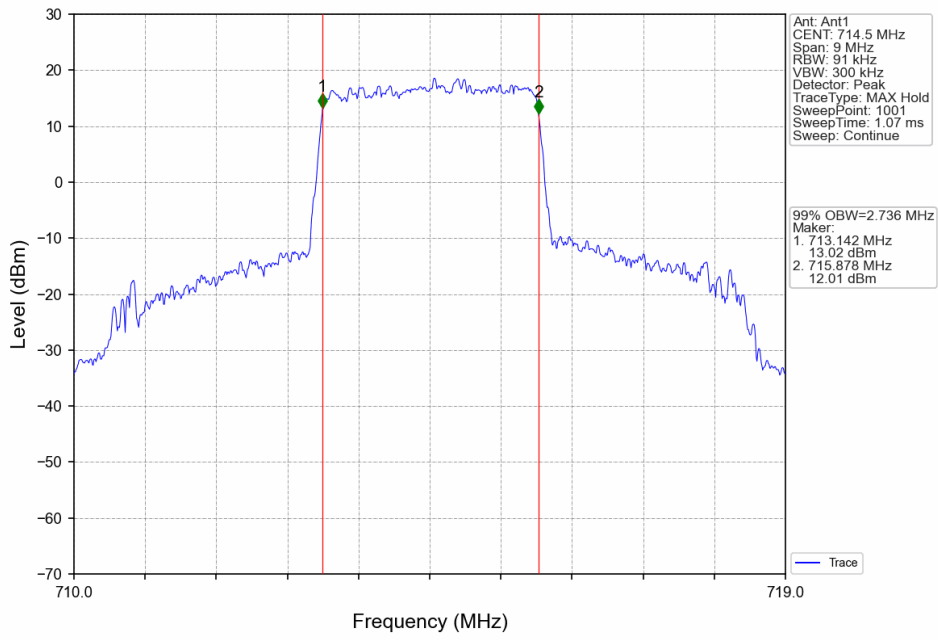
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



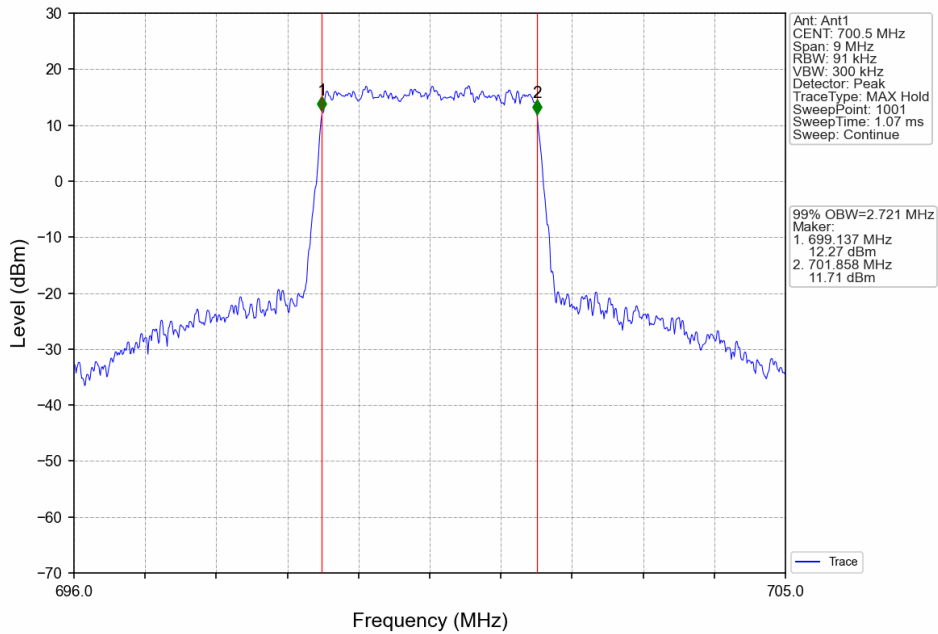
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



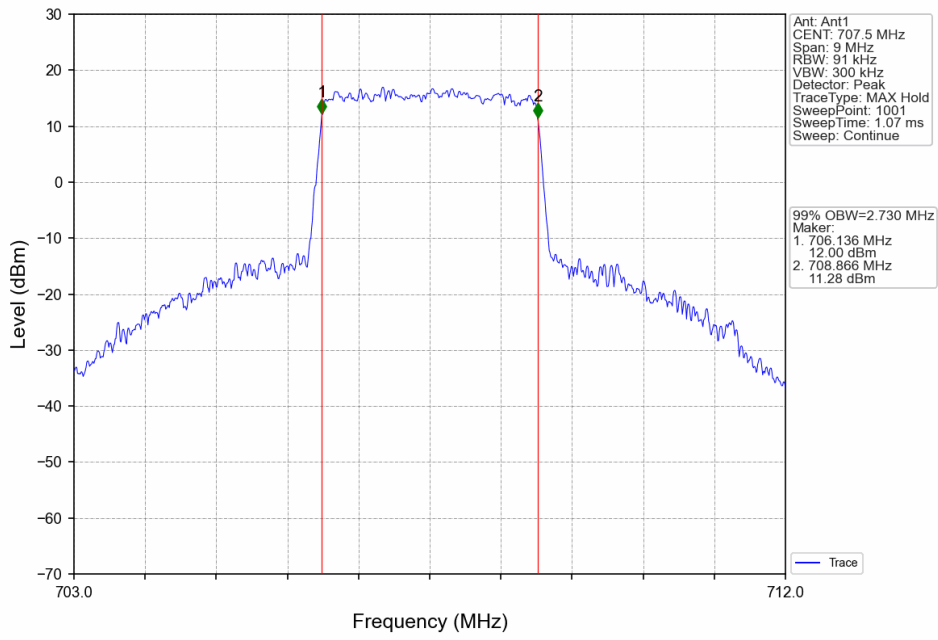
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



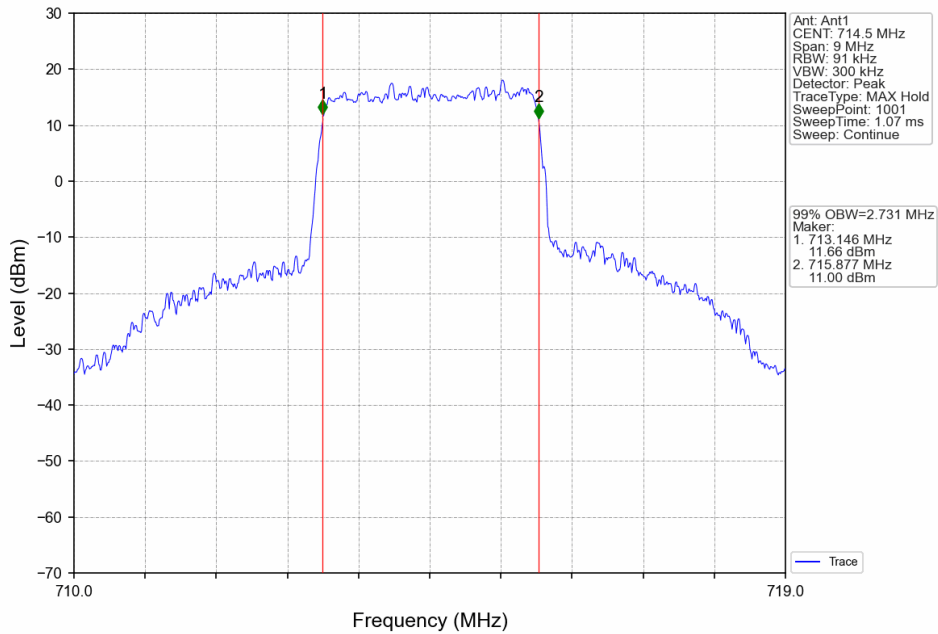
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



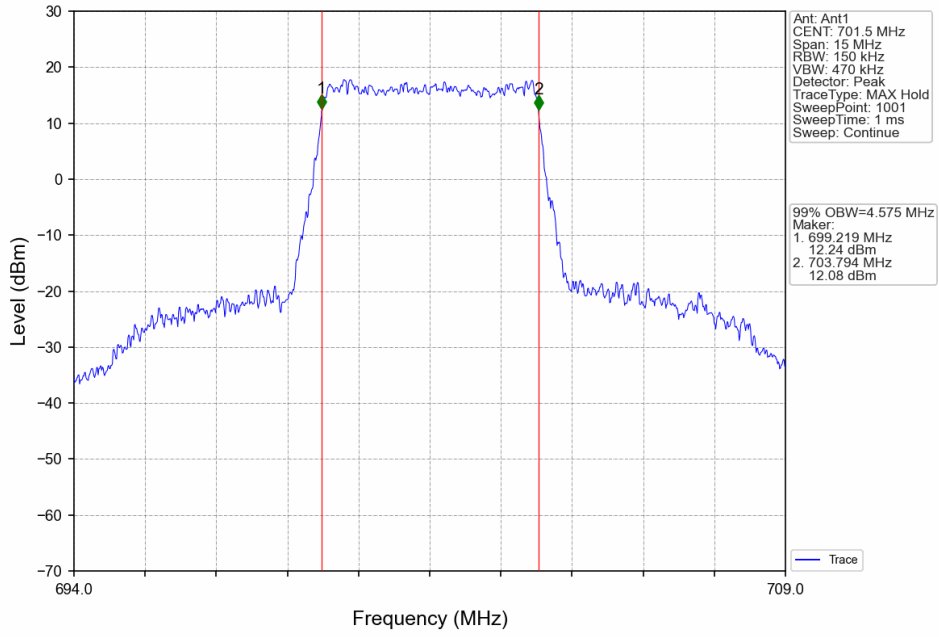
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



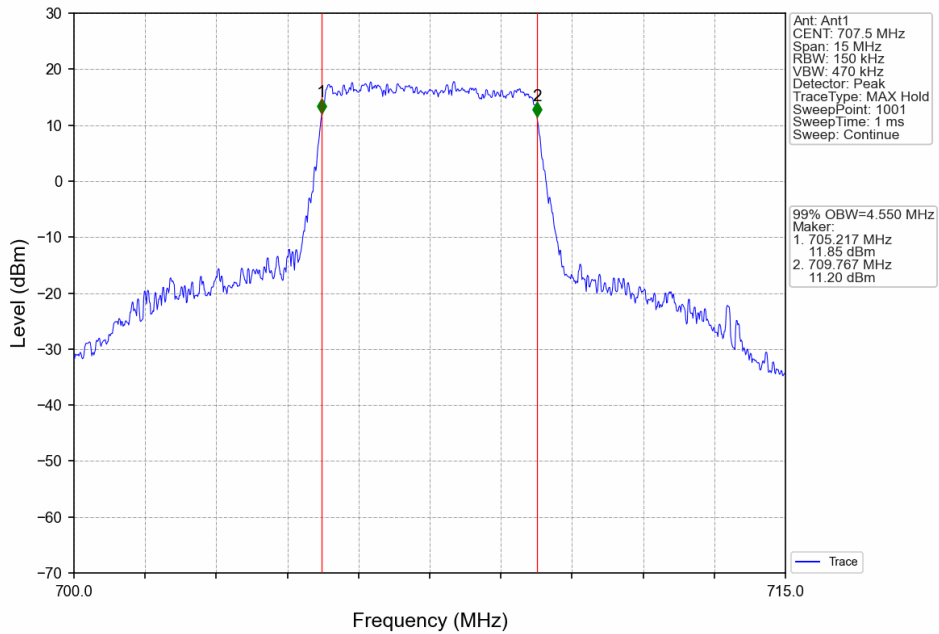
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



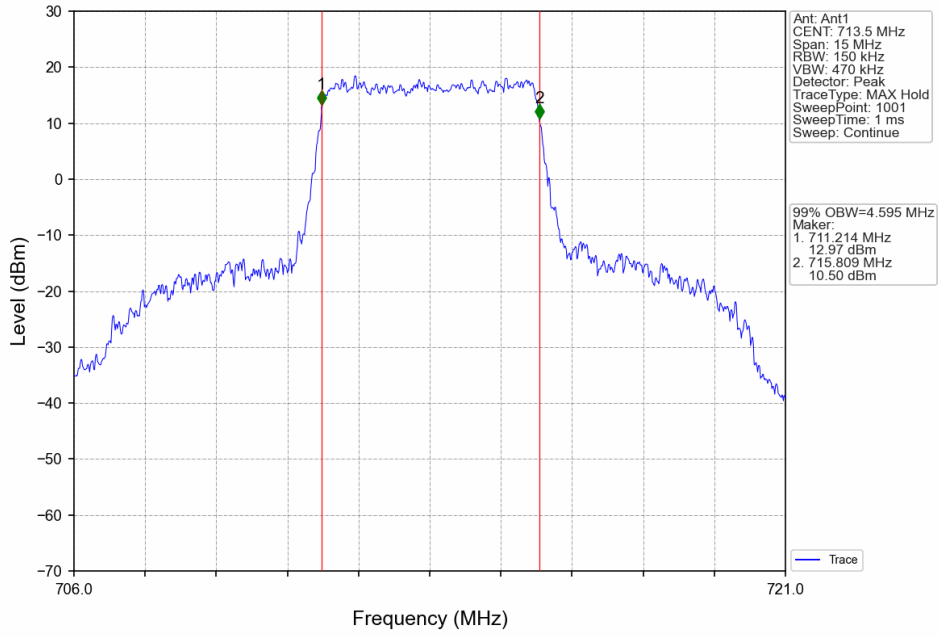
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



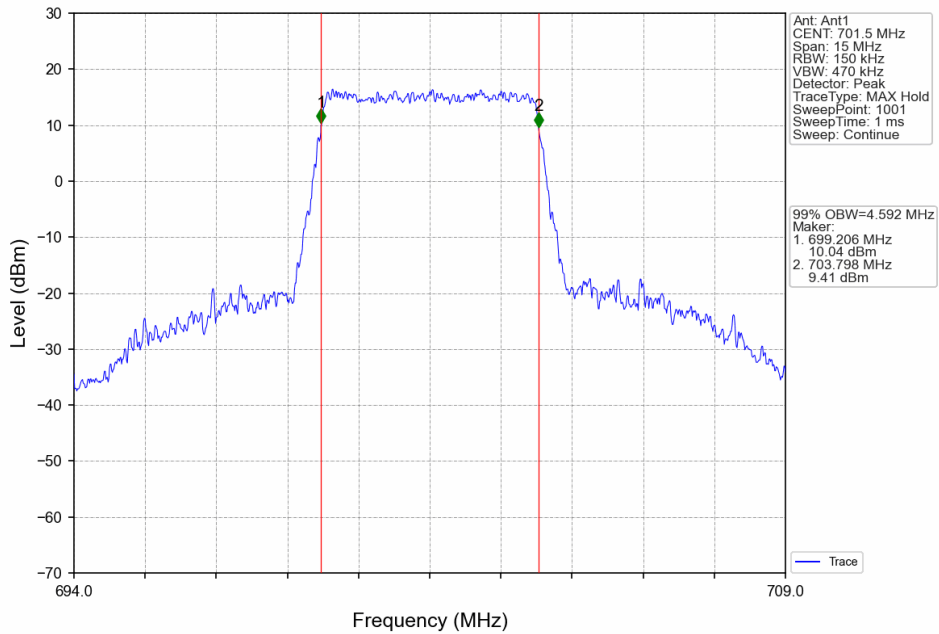
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



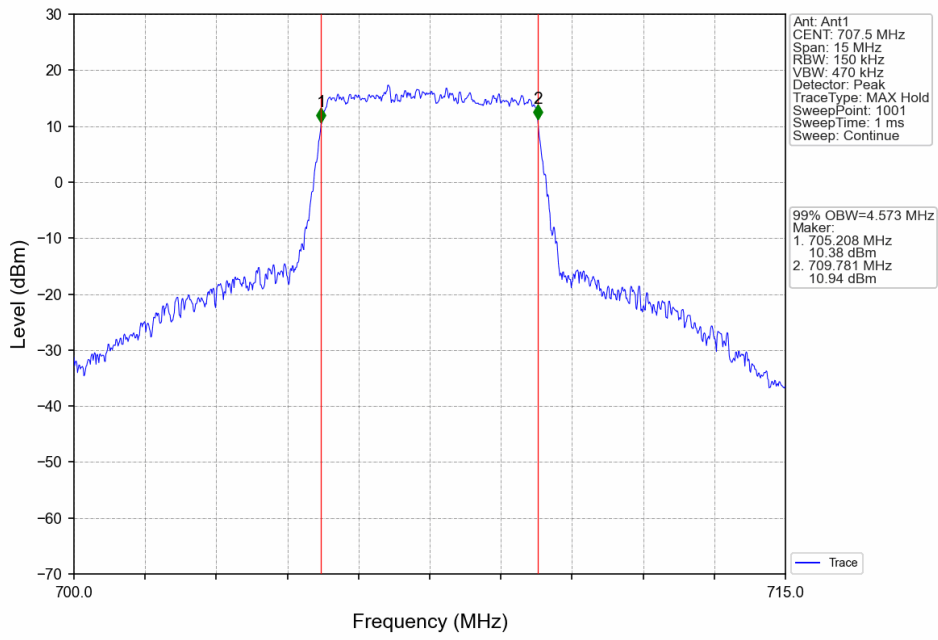
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



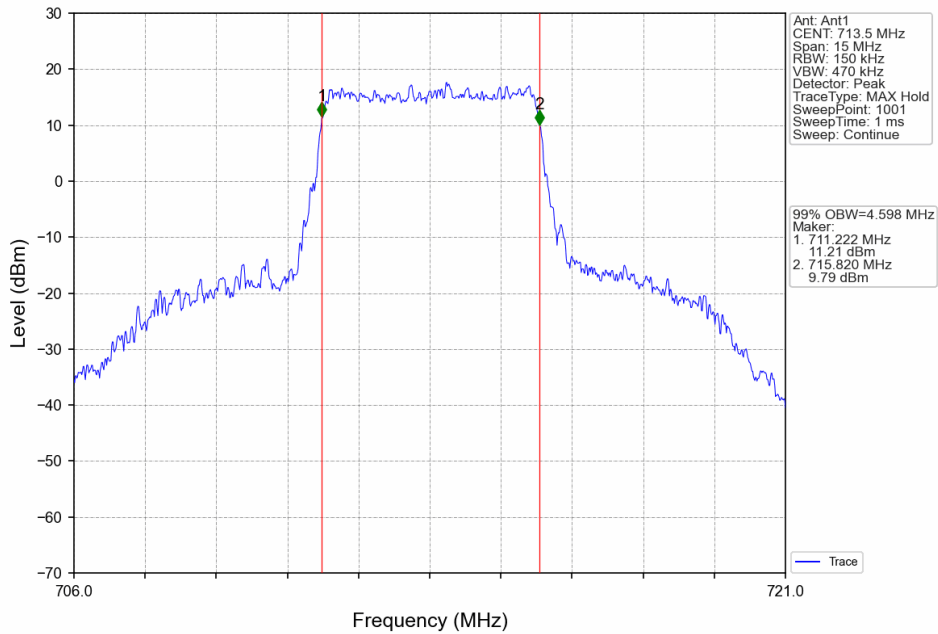
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



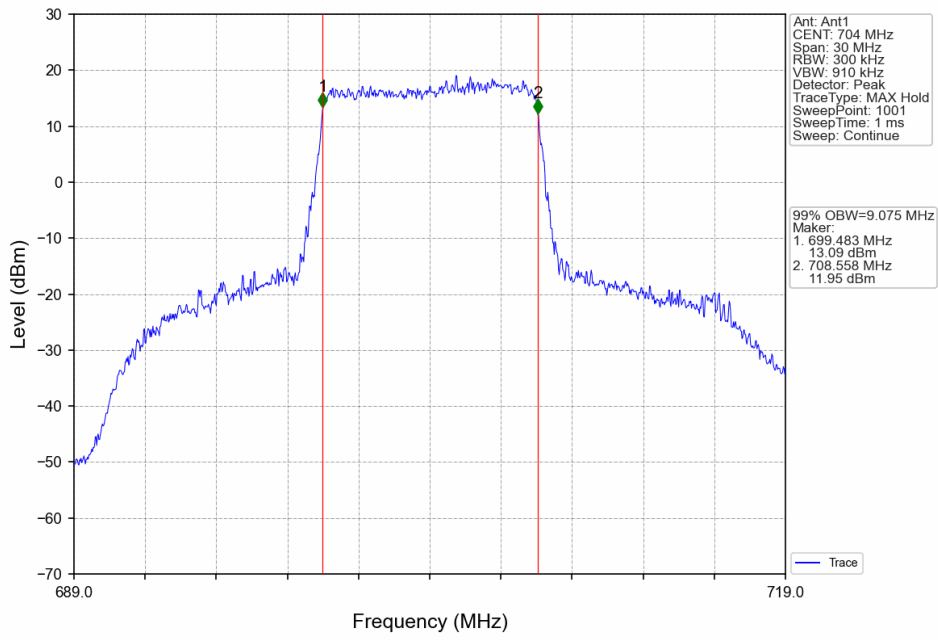
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



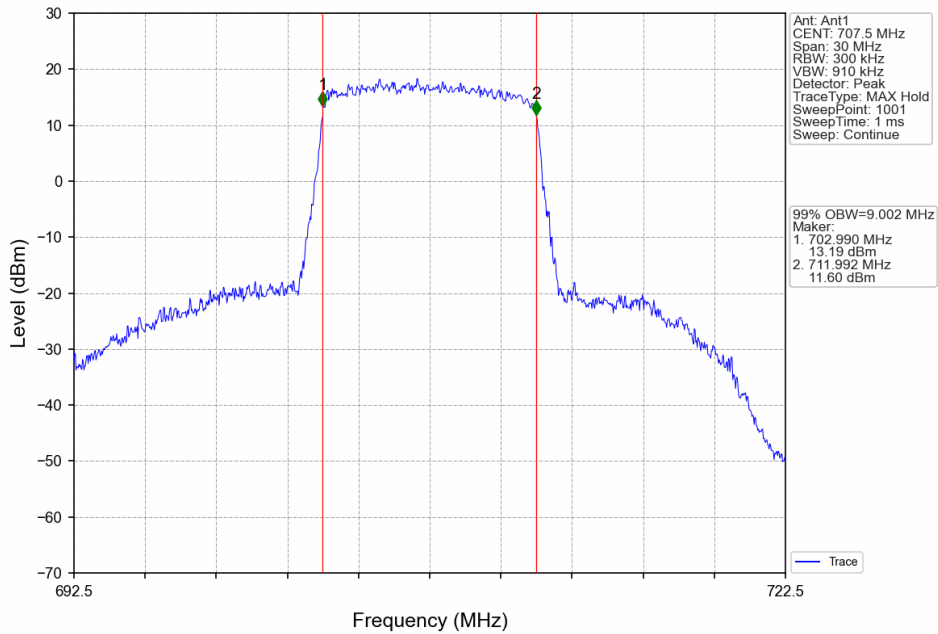
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



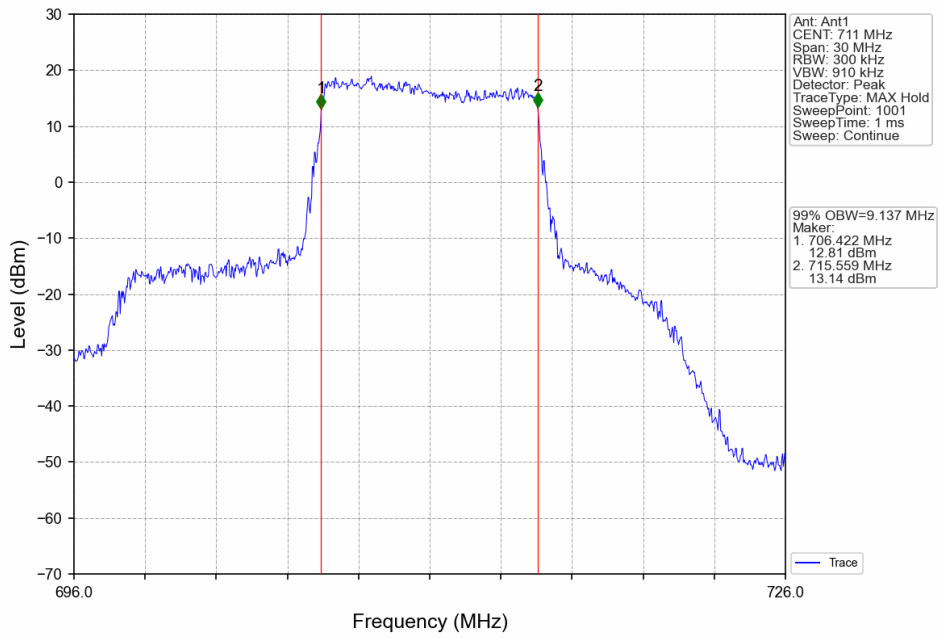
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



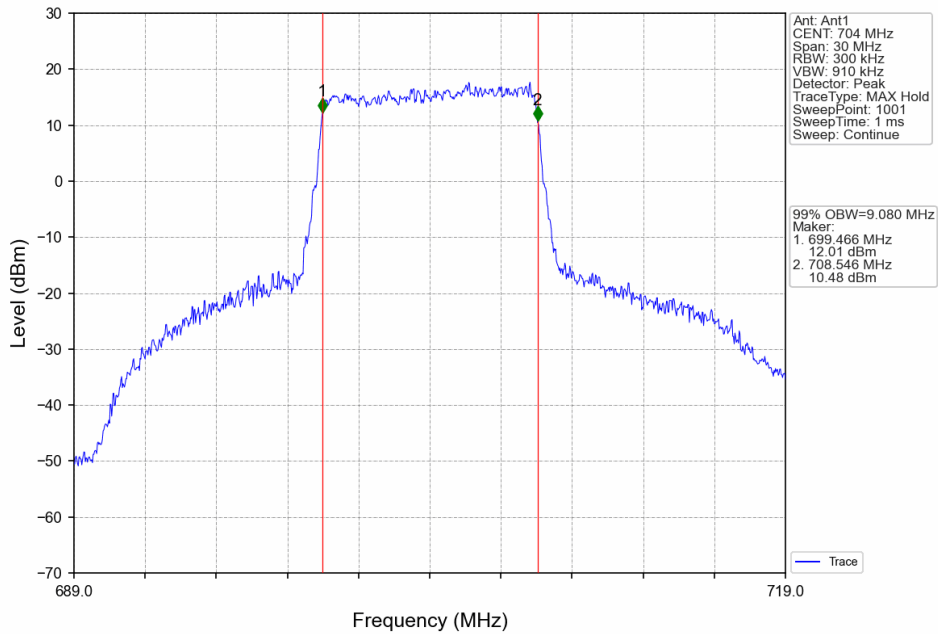
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



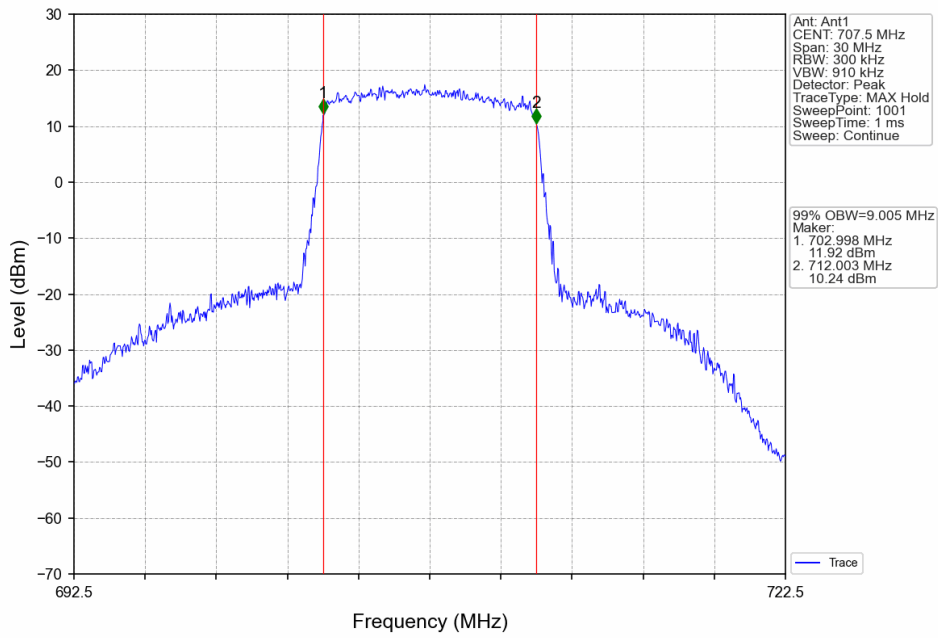
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



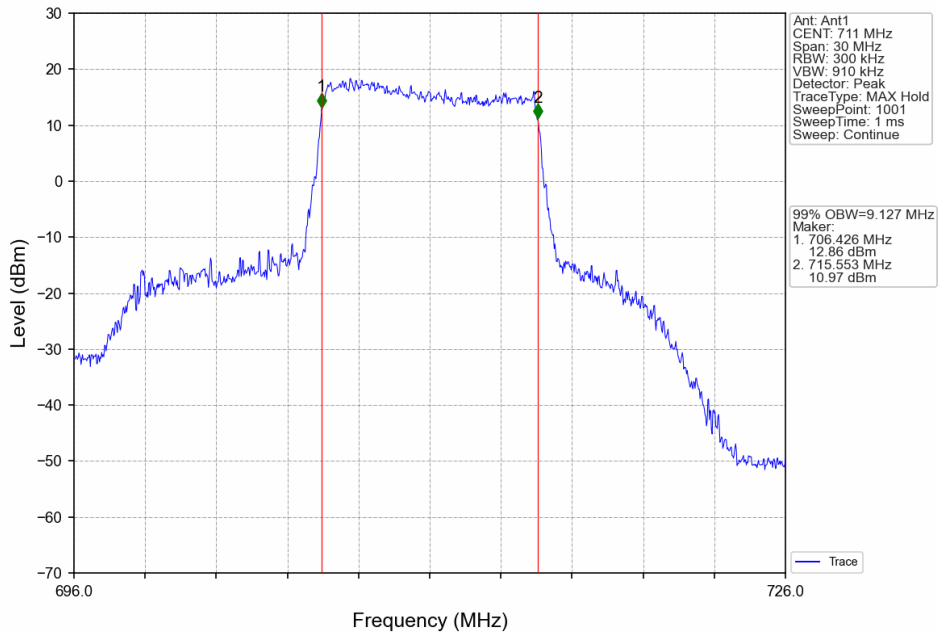
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

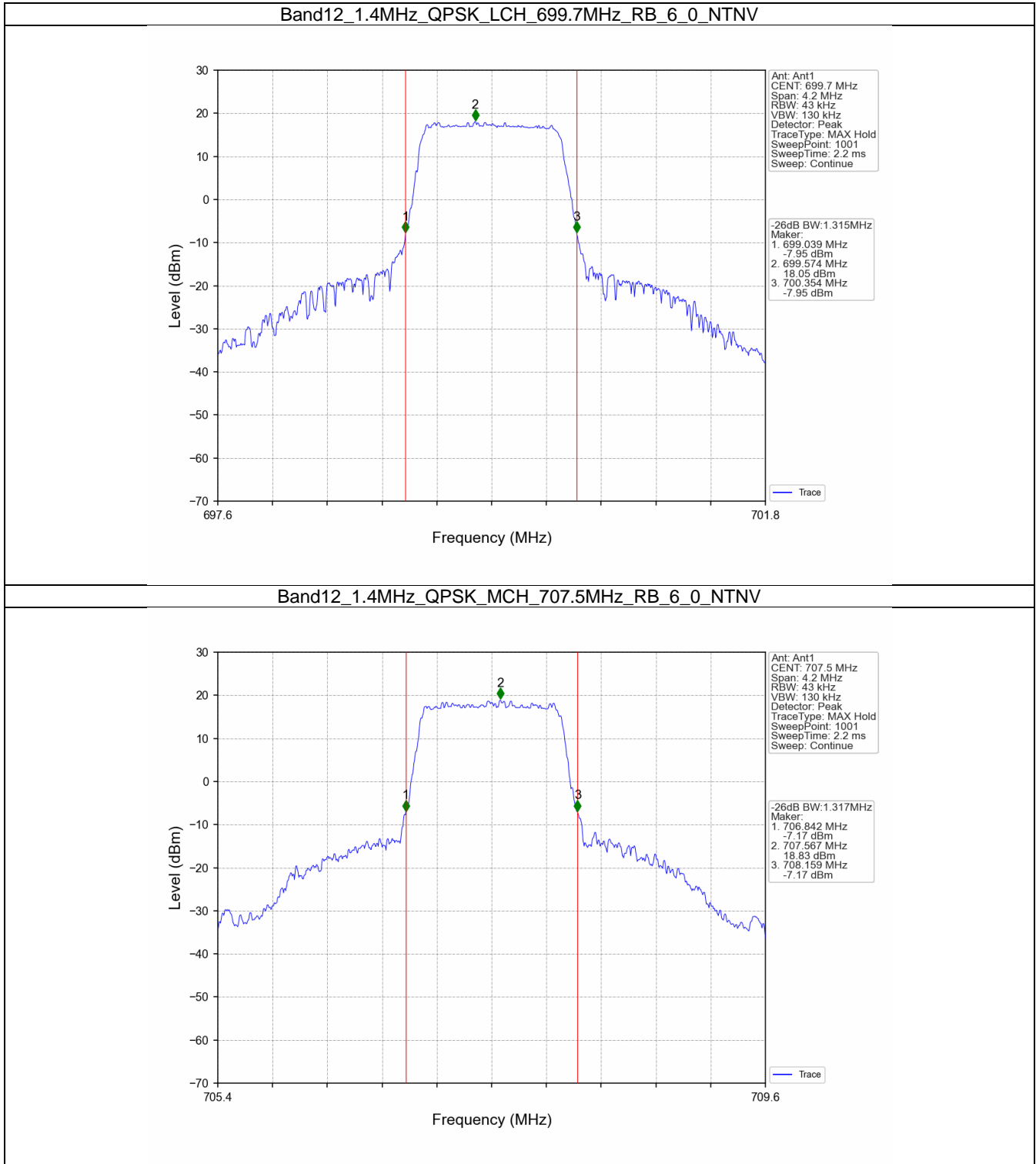


4.2 Band12_XDB

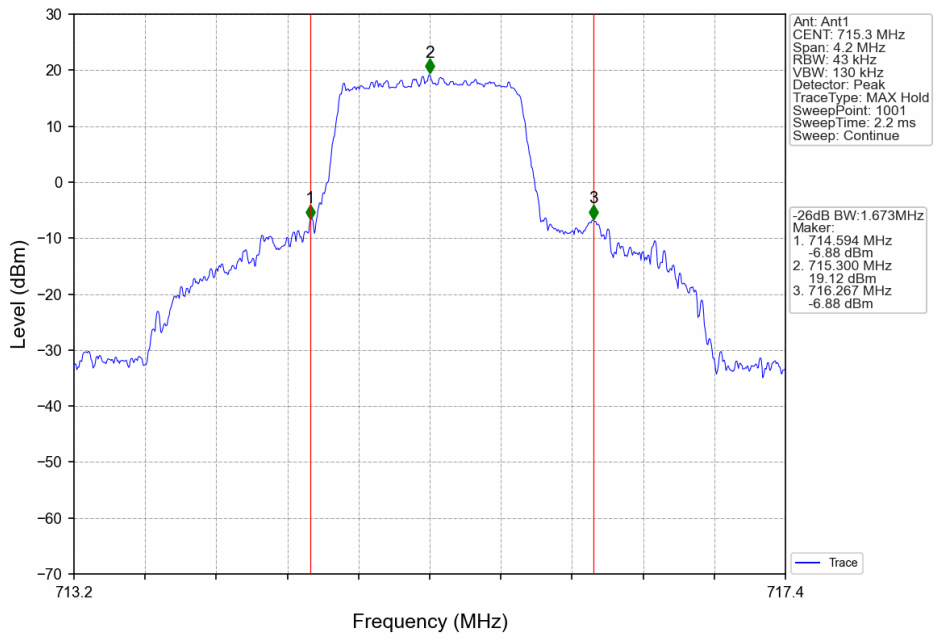
4.2.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.315	Pass
		707.5	6	0	1.317	Pass
		715.3	6	0	1.673	Pass
	16QAM	699.7	6	0	1.334	Pass
		707.5	6	0	1.318	Pass
		715.3	6	0	1.319	Pass
3	QPSK	700.5	15	0	3.002	Pass
		707.5	15	0	2.989	Pass
		714.5	15	0	3.017	Pass
	16QAM	700.5	15	0	3.011	Pass
		707.5	15	0	2.994	Pass
		714.5	15	0	2.984	Pass
5	QPSK	701.5	25	0	5.311	Pass
		707.5	25	0	5.260	Pass
		713.5	25	0	5.305	Pass
	16QAM	701.5	25	0	5.359	Pass
		707.5	25	0	5.264	Pass
		713.5	25	0	5.463	Pass
10	QPSK	704	50	0	10.191	Pass
		707.5	50	0	10.174	Pass
		711	50	0	10.456	Pass
	16QAM	704	50	0	10.194	Pass
		707.5	50	0	10.161	Pass
		711	50	0	10.244	Pass

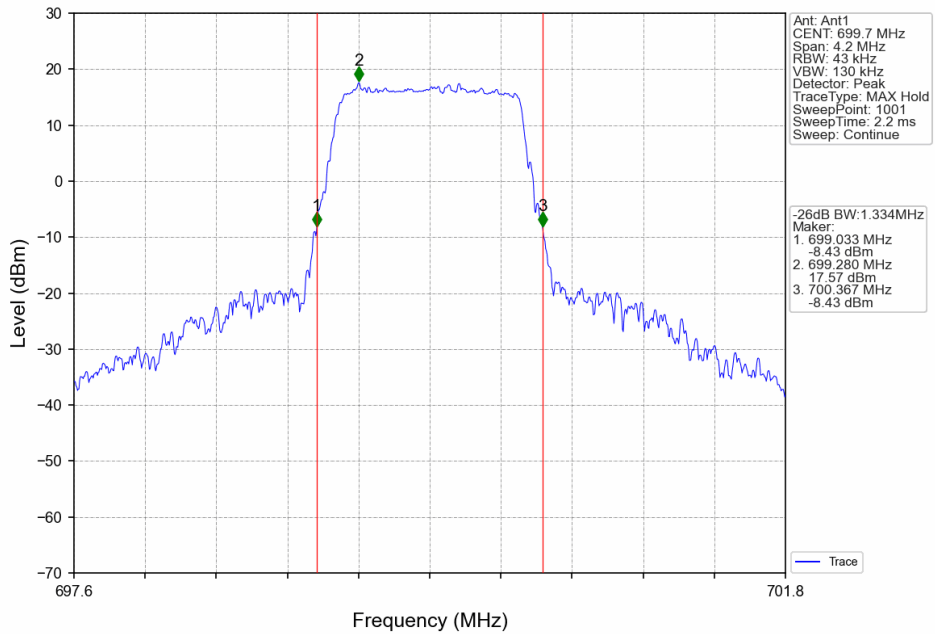
4.2.2 Test Graph



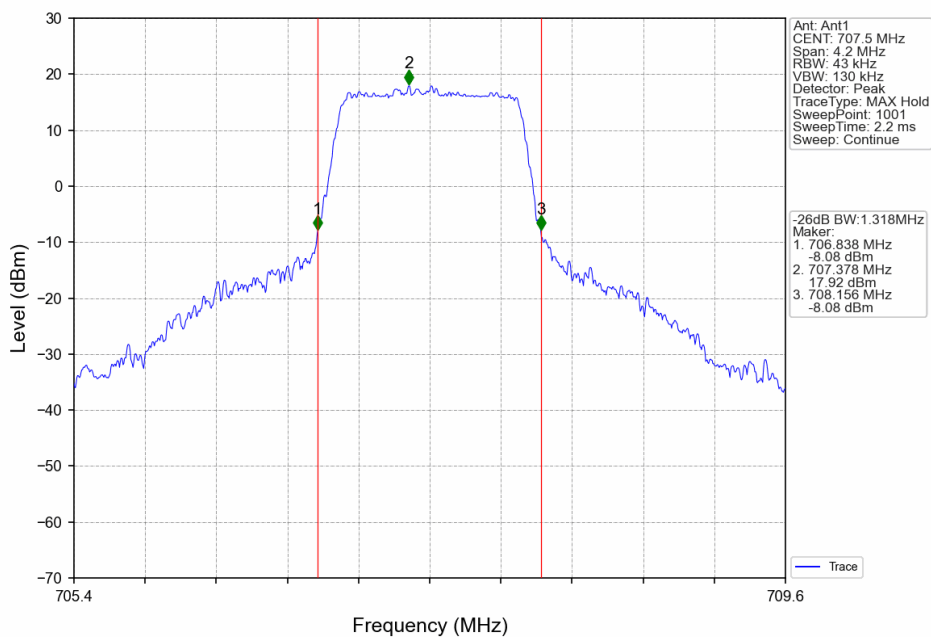
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



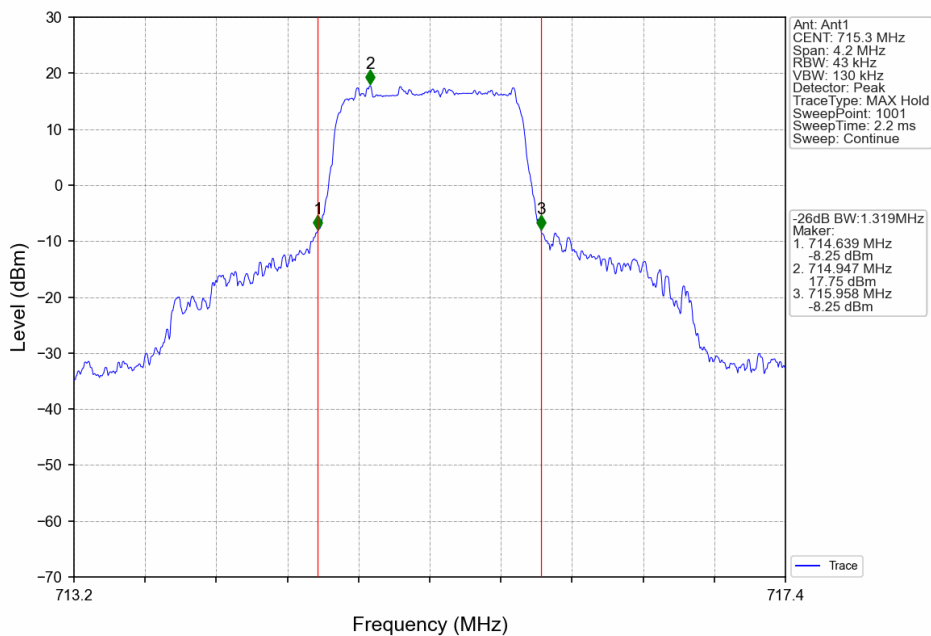
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



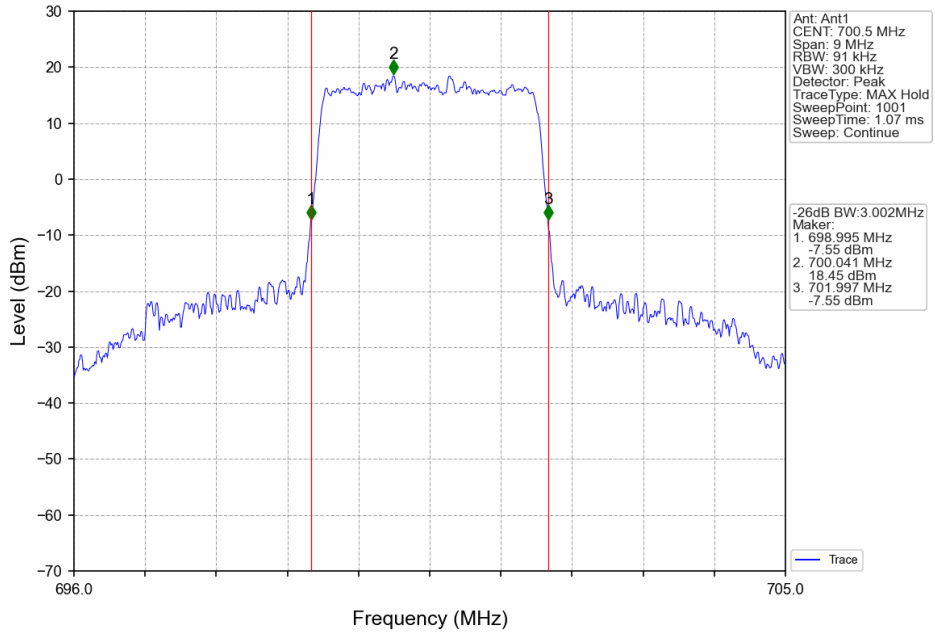
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



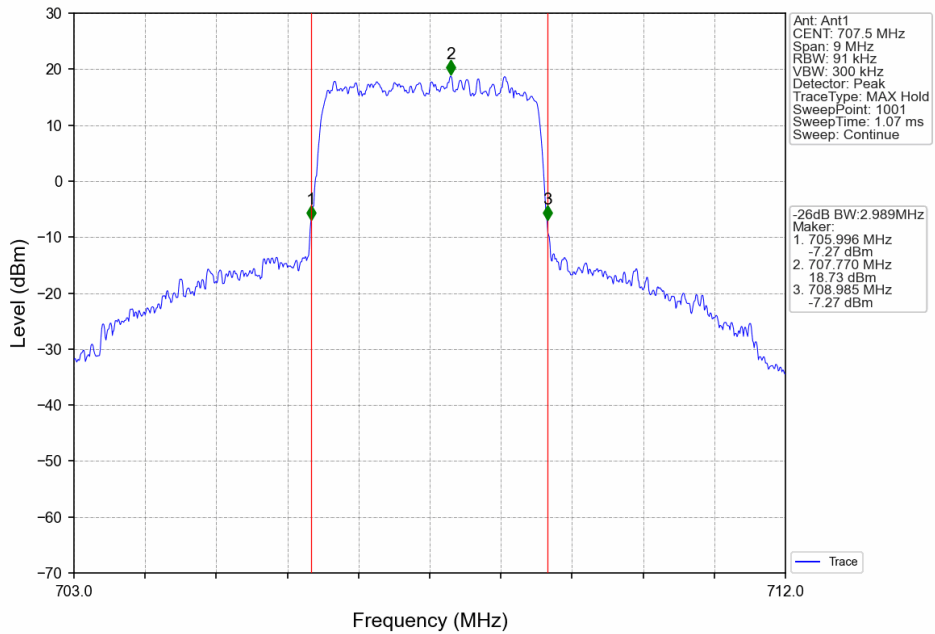
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



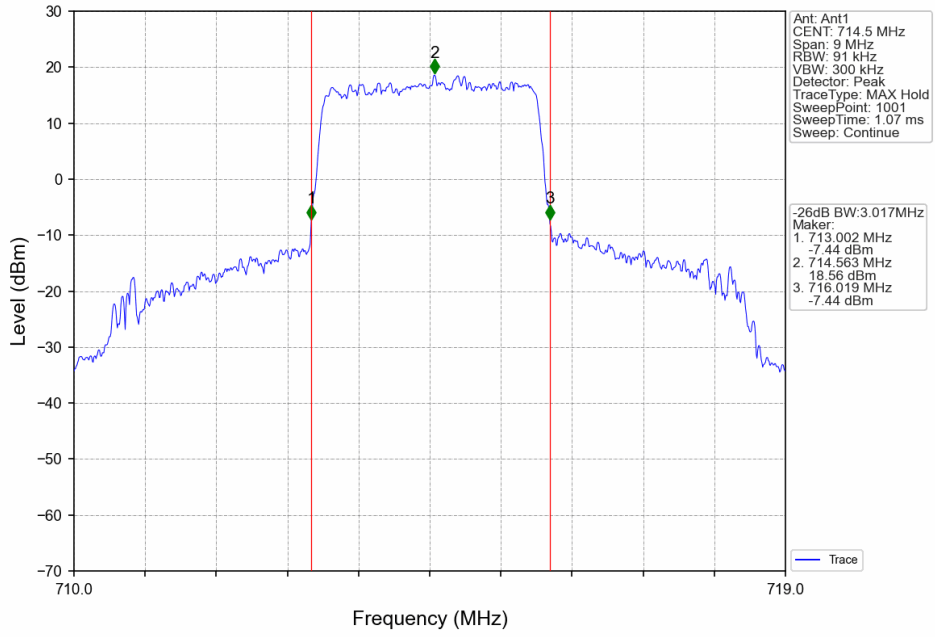
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



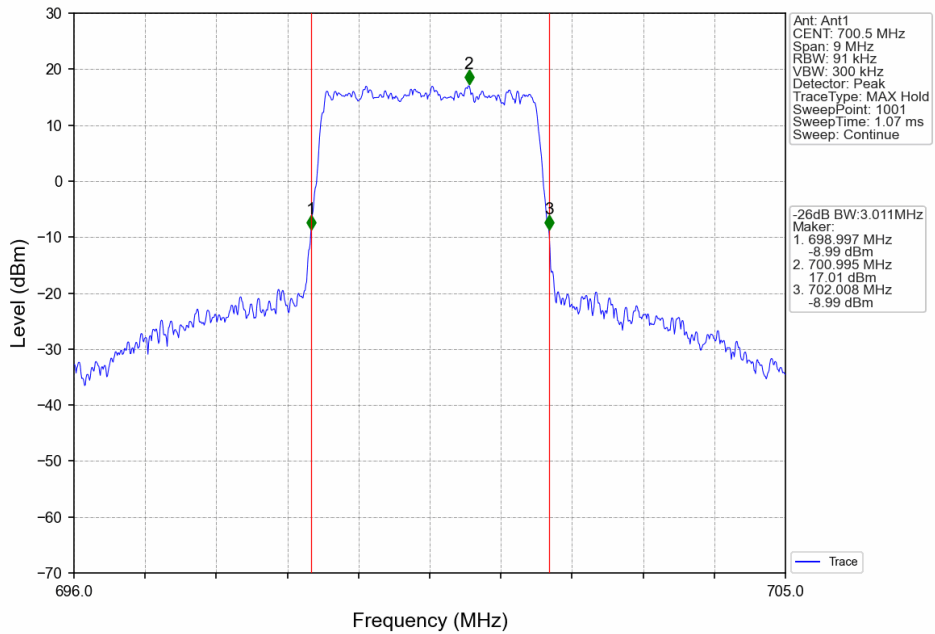
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



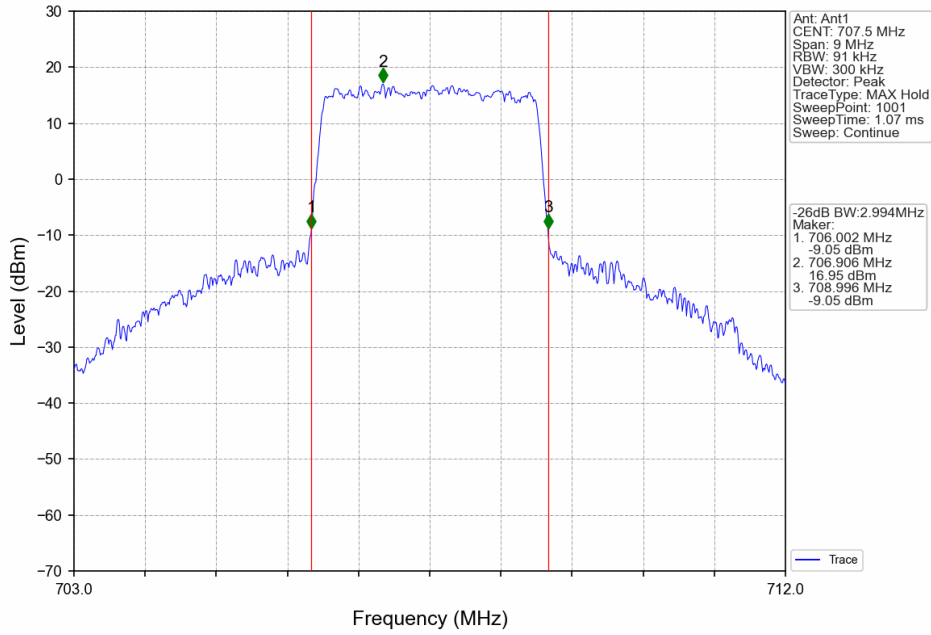
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



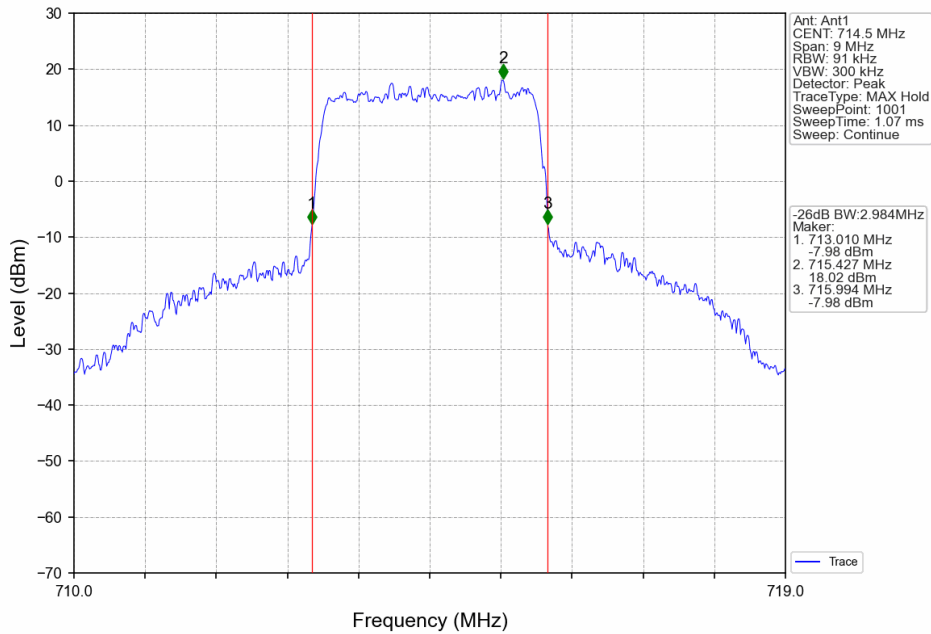
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



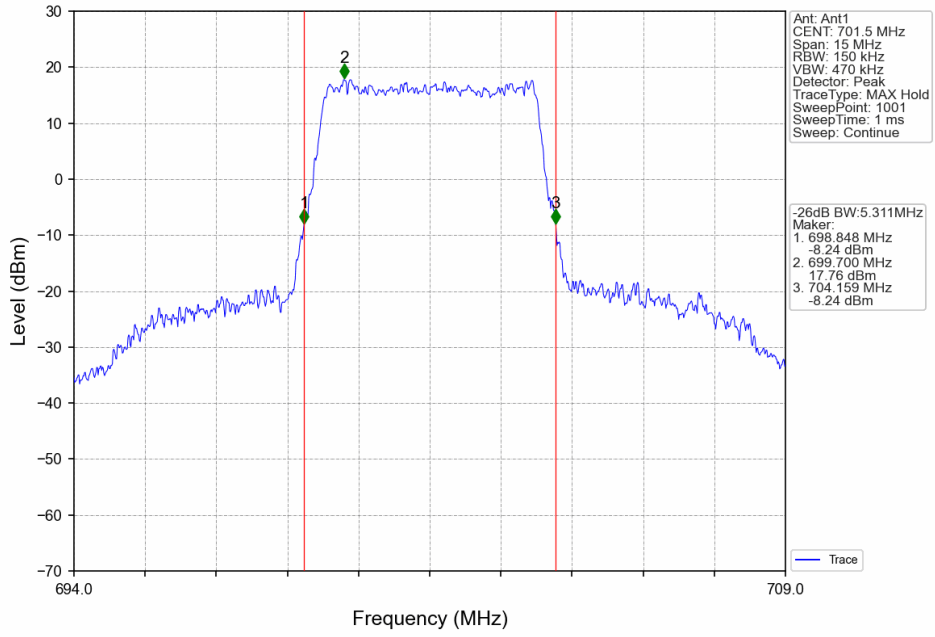
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



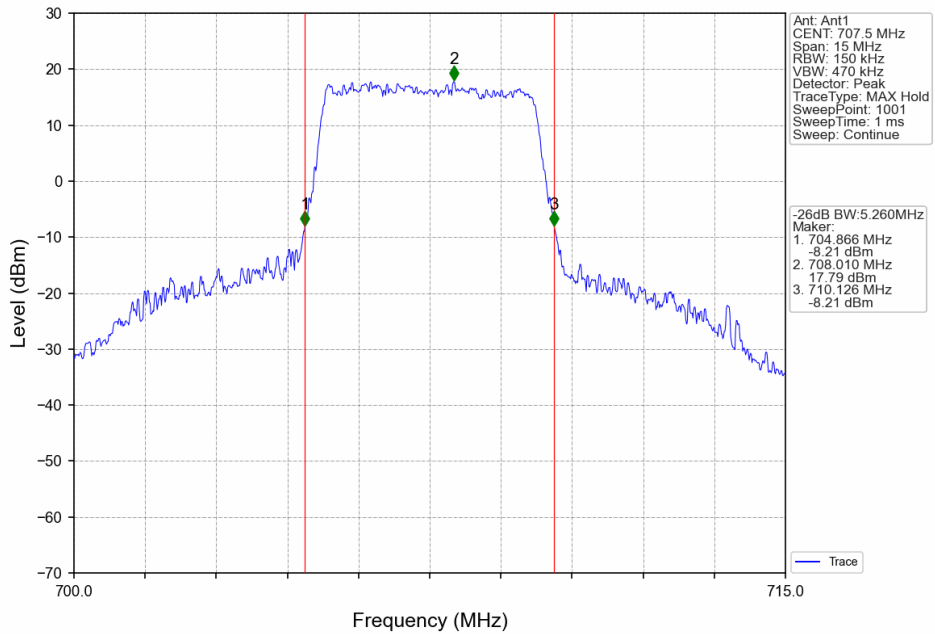
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



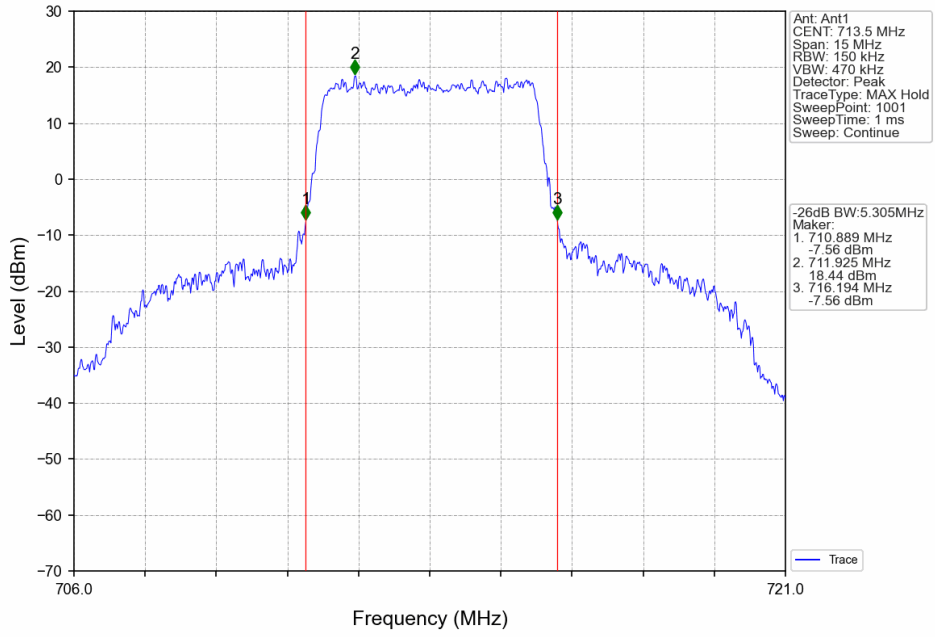
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



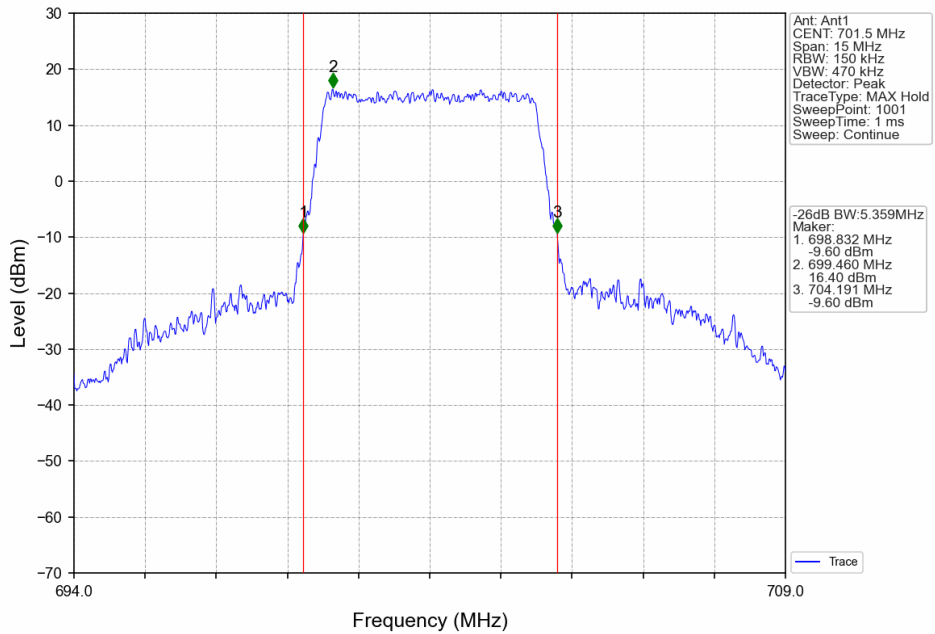
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



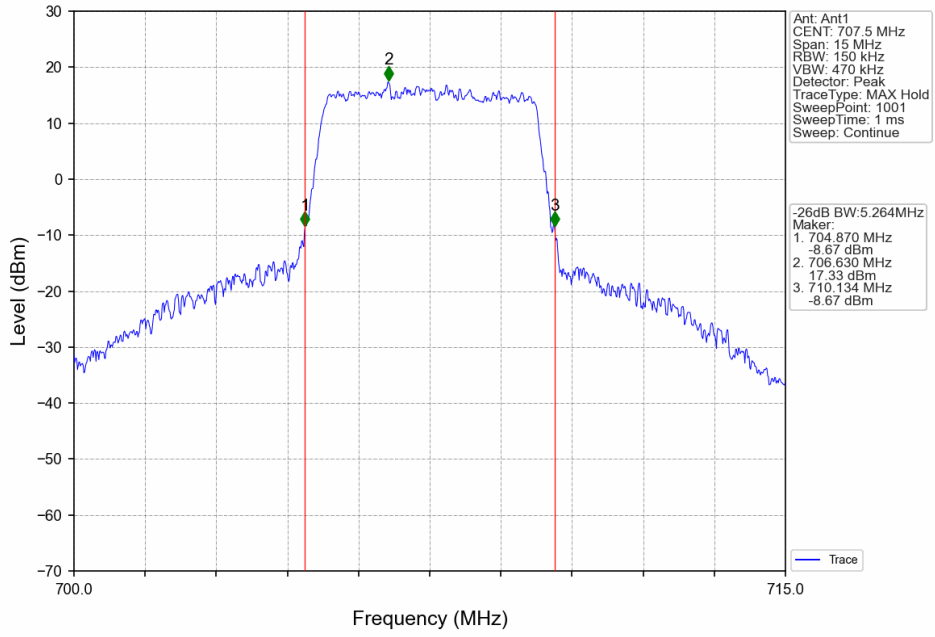
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



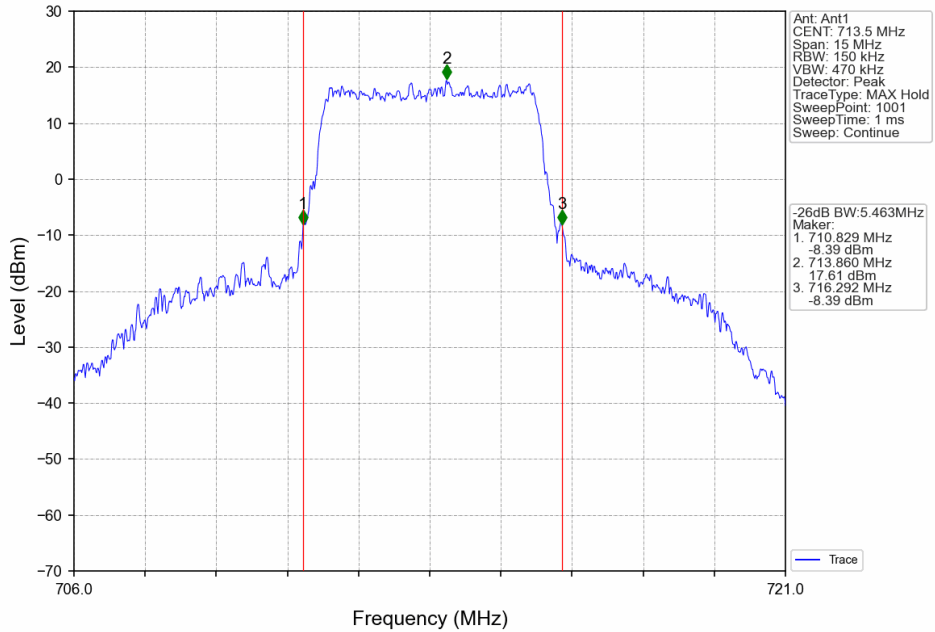
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



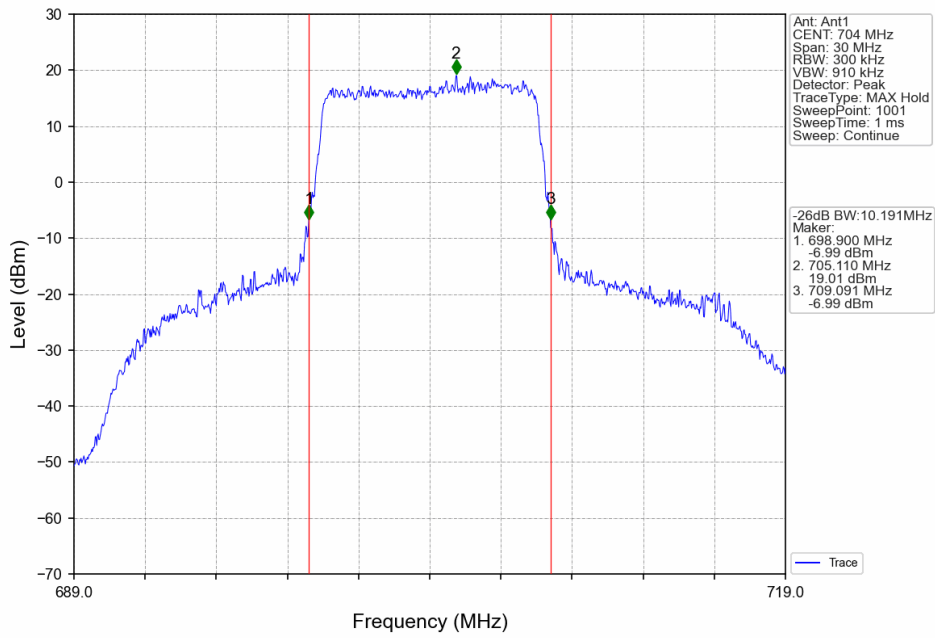
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



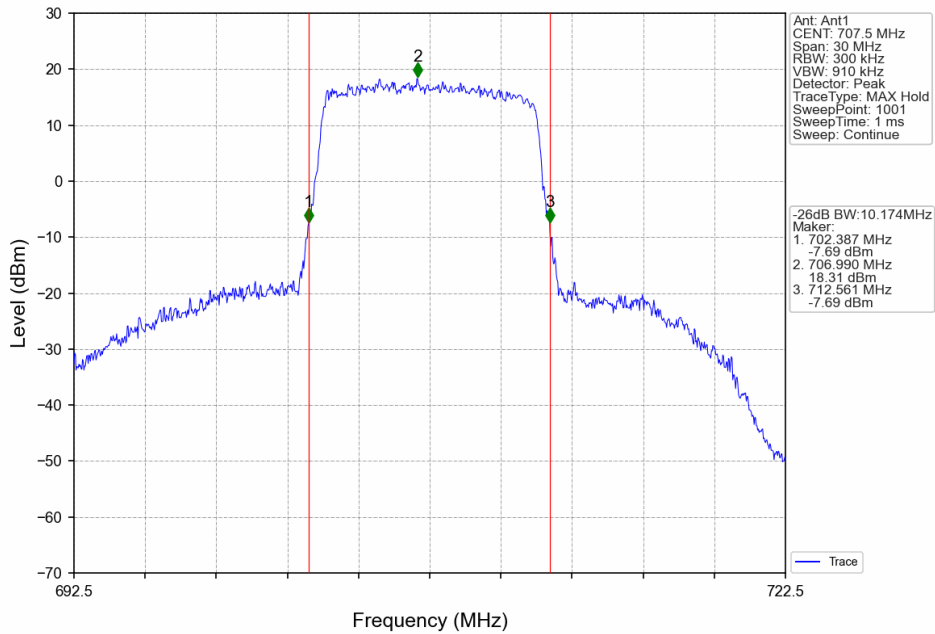
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



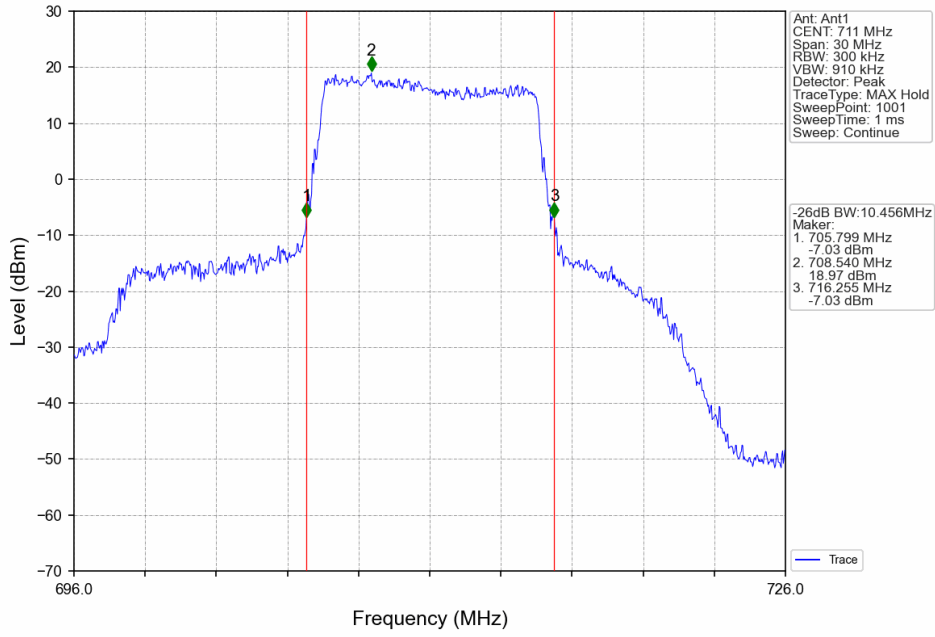
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



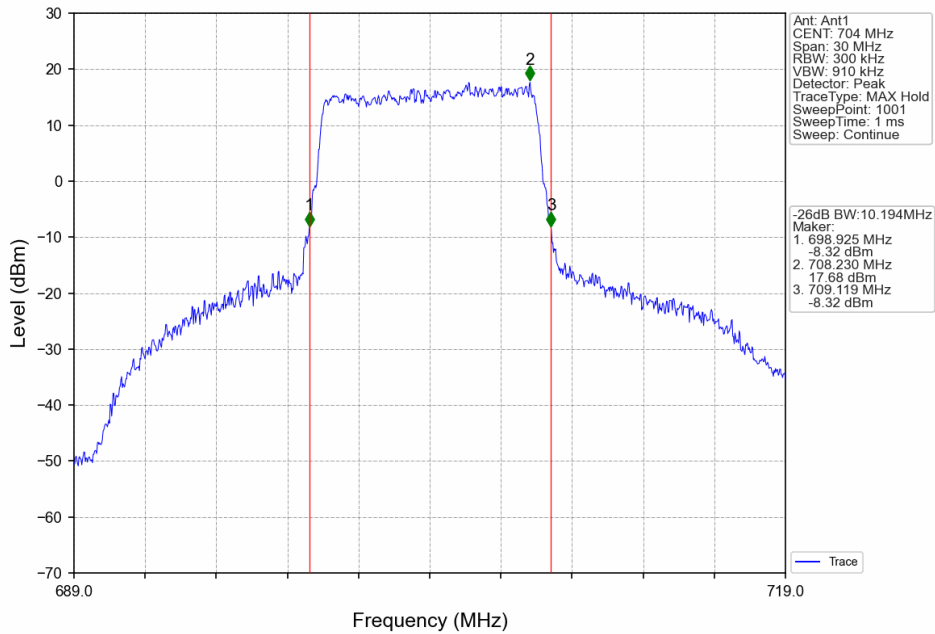
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



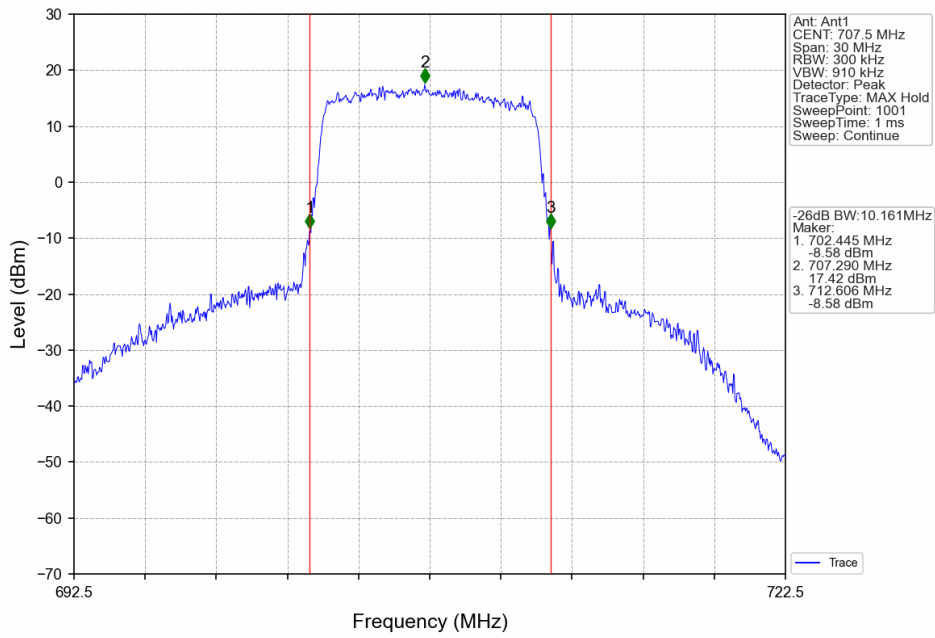
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



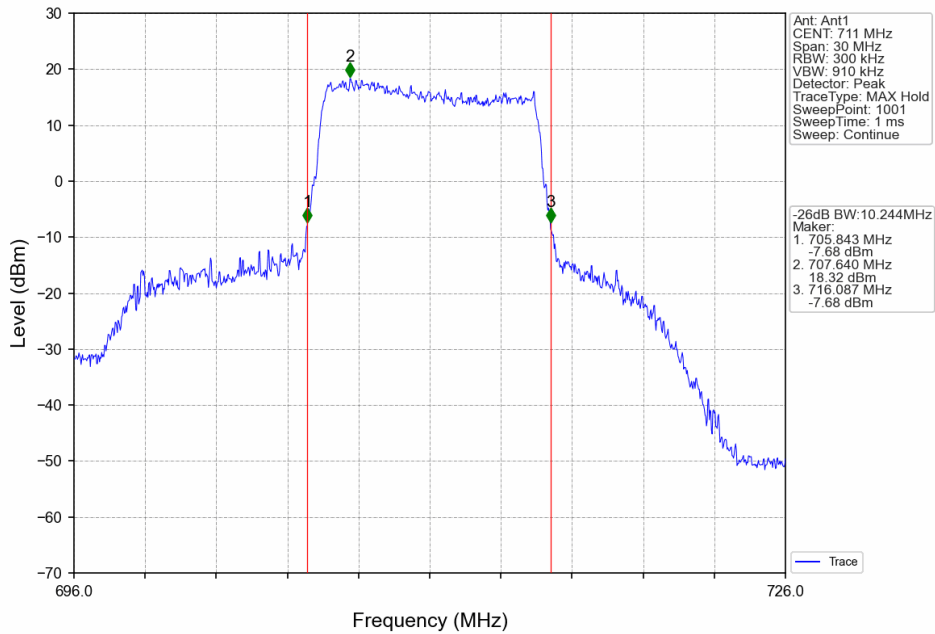
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



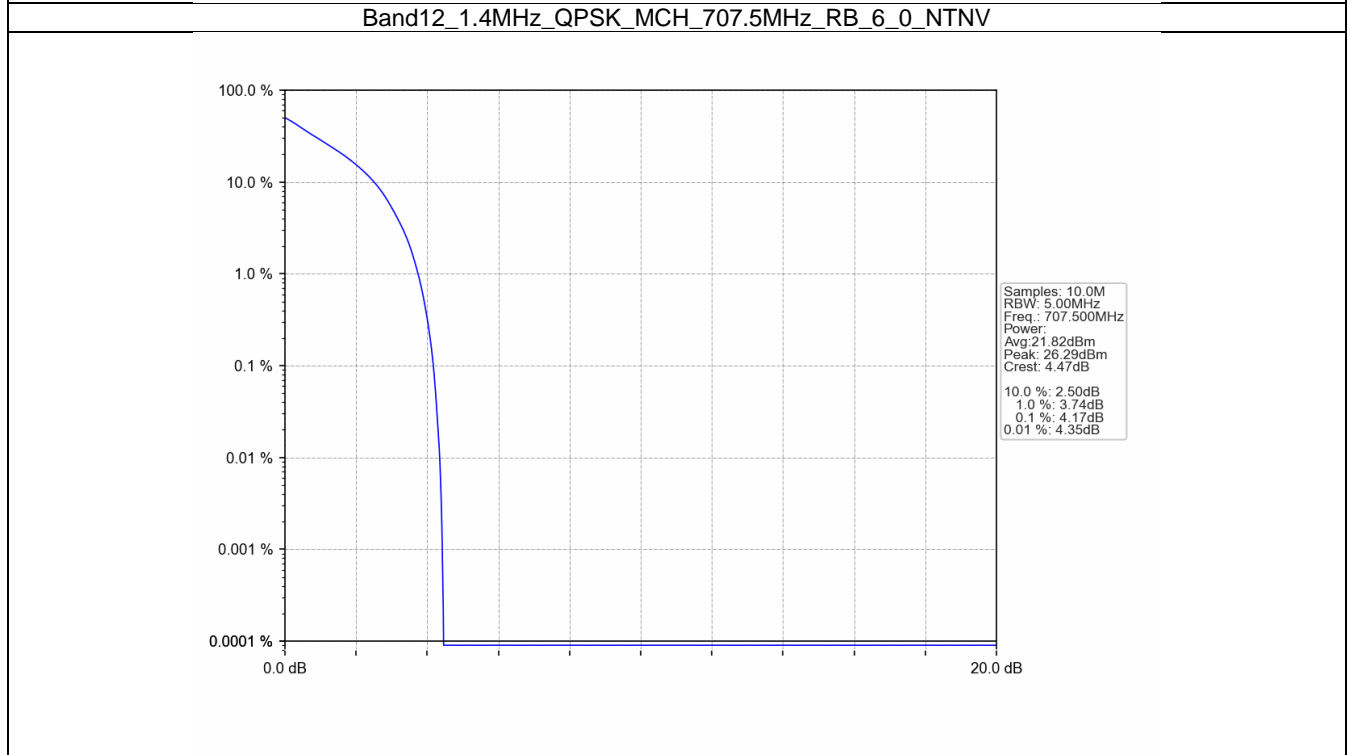
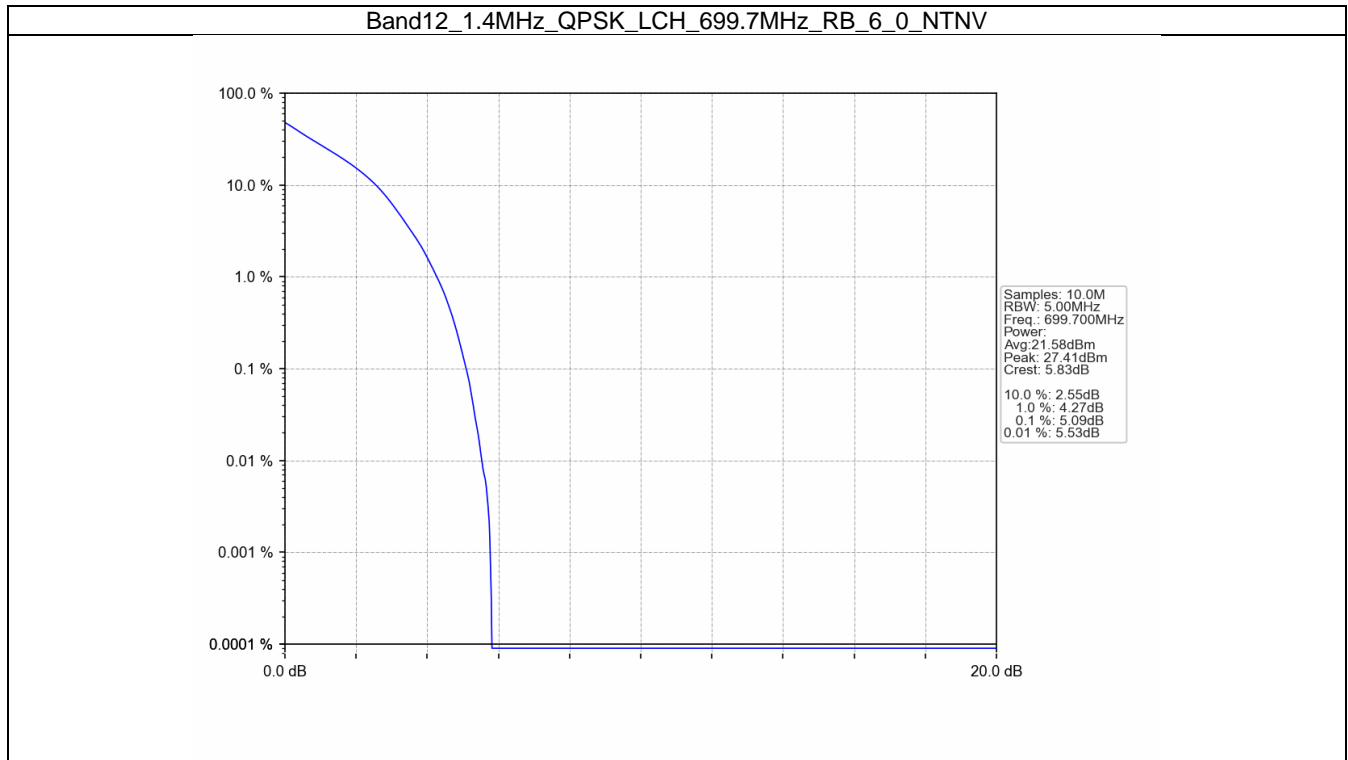
5. Peak-Average Ratio

5.1 B12_1.4MHz

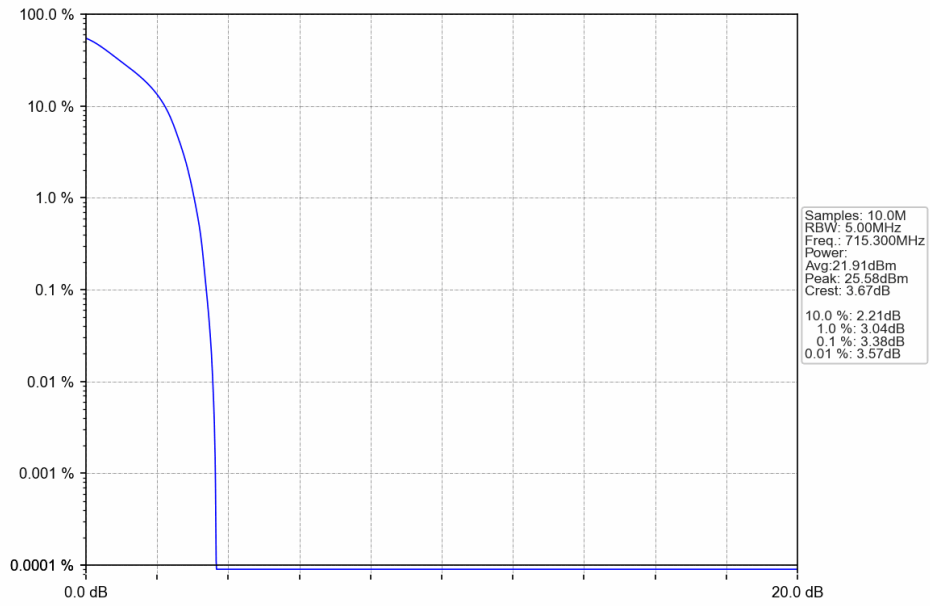
5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.09	<=13	Pass
	707.5	6	0	4.17	<=13	Pass
	715.3	6	0	3.38	<=13	Pass
16QAM	699.7	6	0	5.89	<=13	Pass
	707.5	6	0	5.06	<=13	Pass
	715.3	6	0	4.43	<=13	Pass

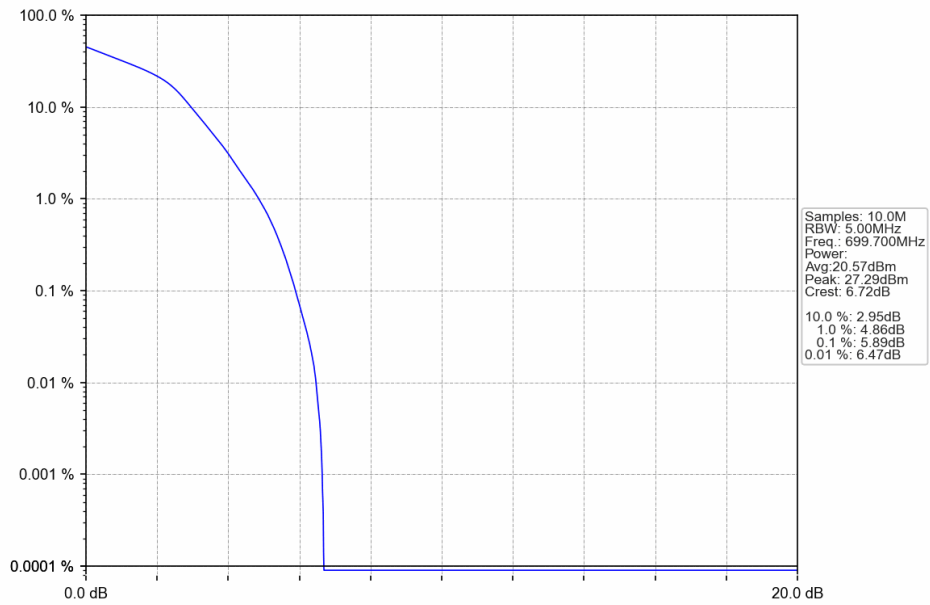
5.1.2 Test Graph



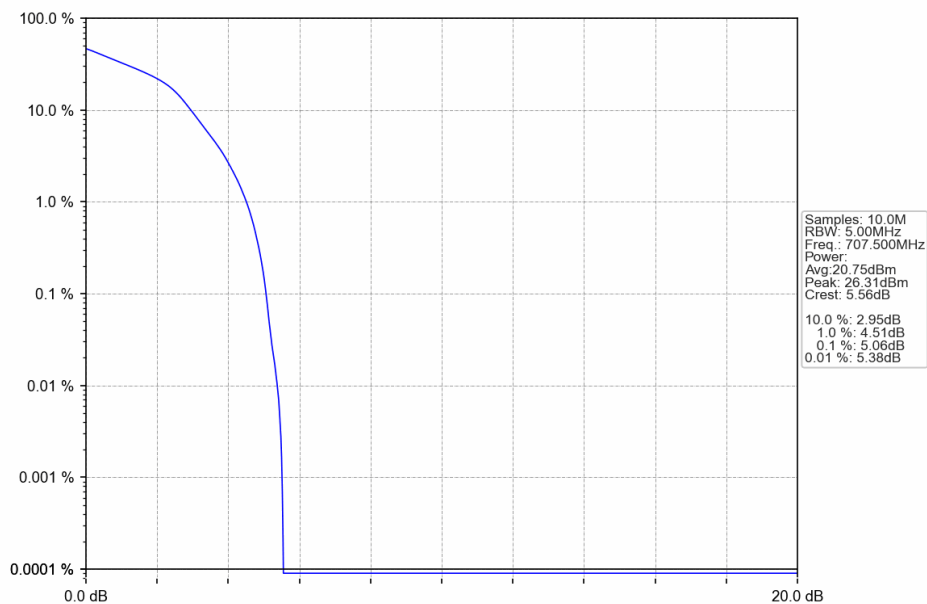
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



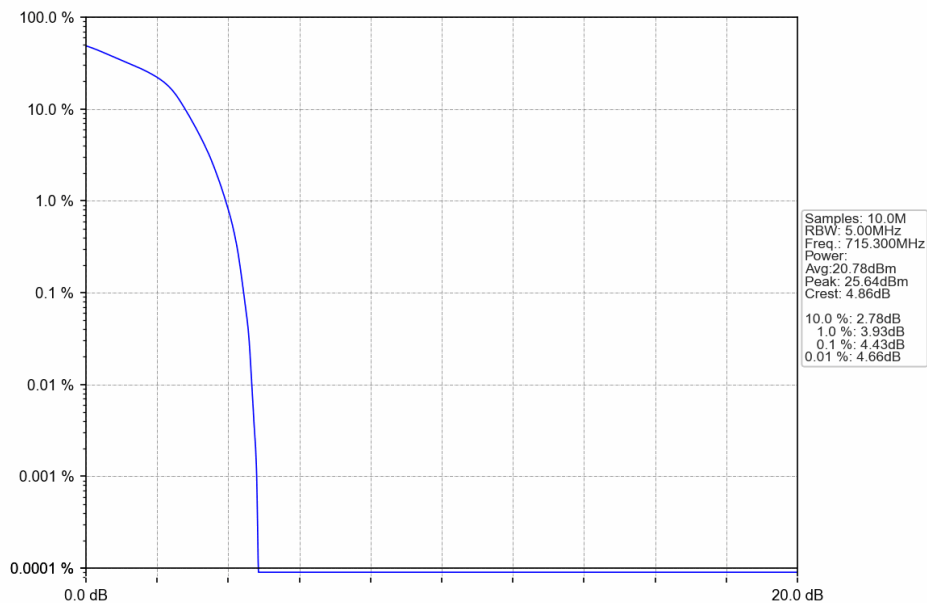
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

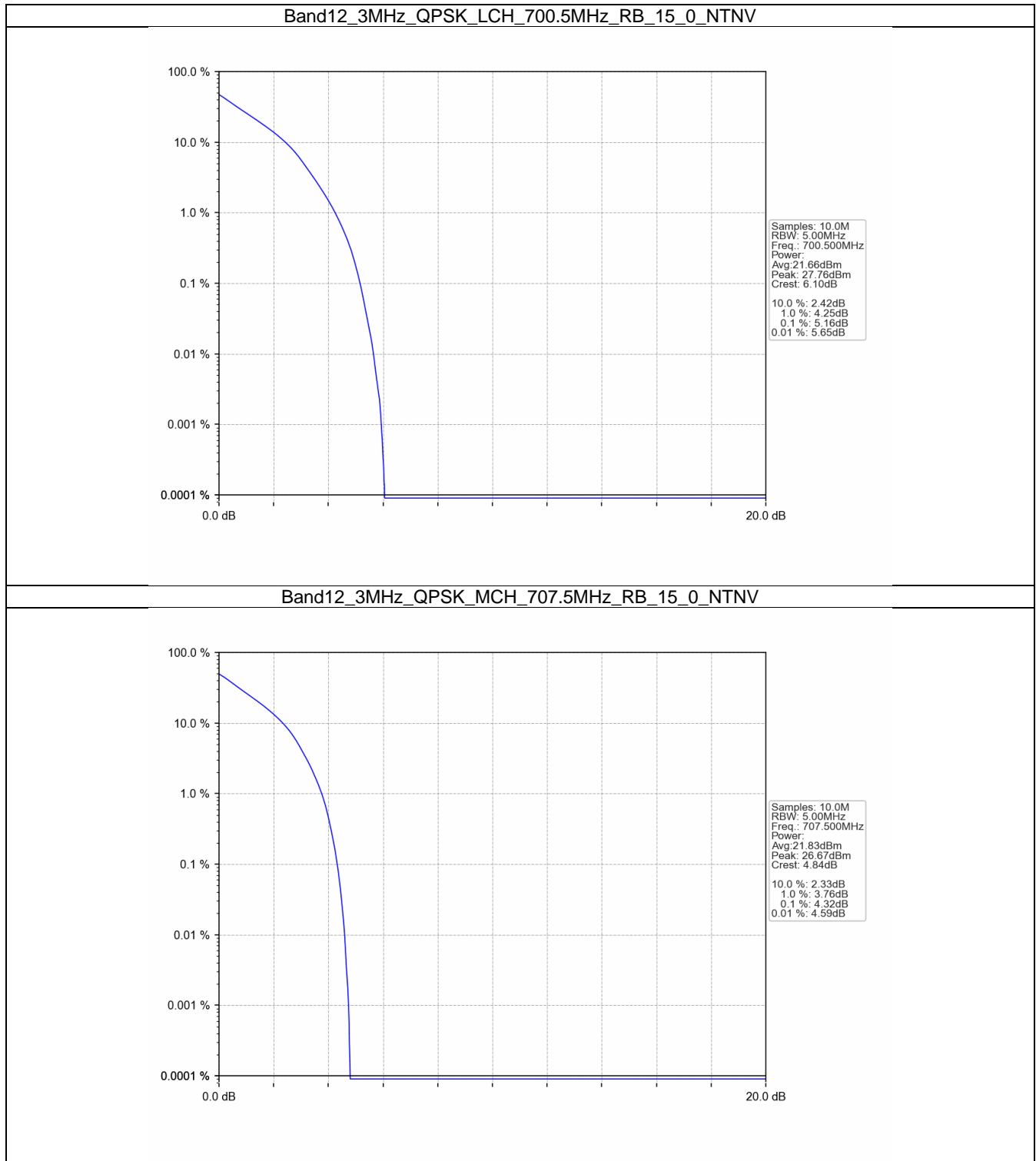


5.2 B12_3MHz

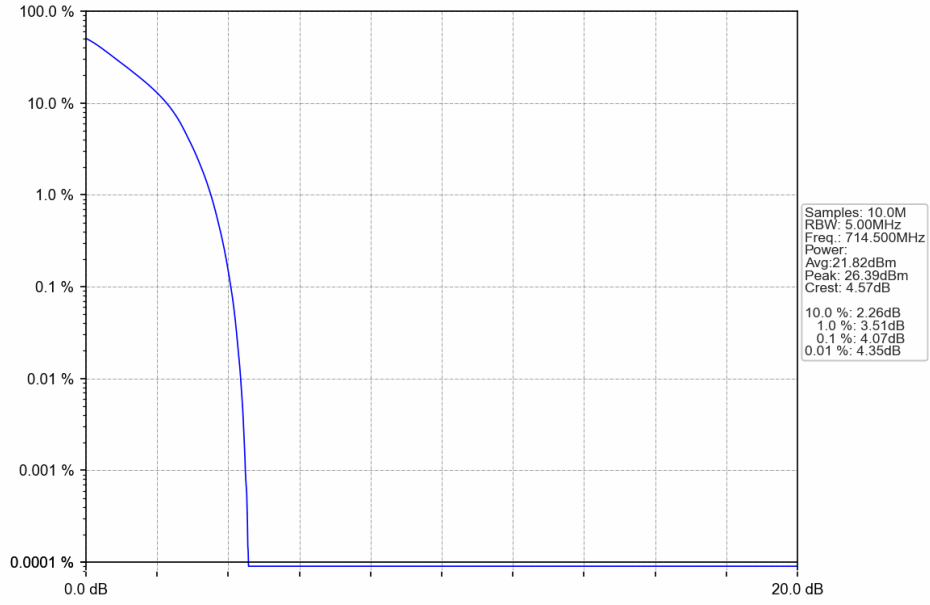
5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
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	4.32	<=13	Pass
	714.5	15	0	4.07	<=13	Pass
16QAM	700.5	15	0	5.97	<=13	Pass
	707.5	15	0	5.22	<=13	Pass
	714.5	15	0	5.01	<=13	Pass

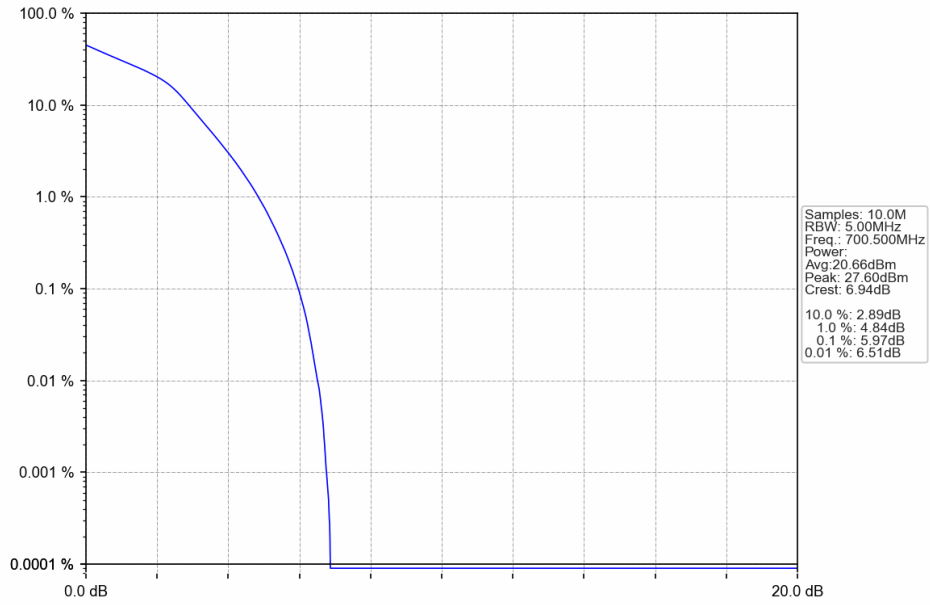
5.2.2 Test Graph



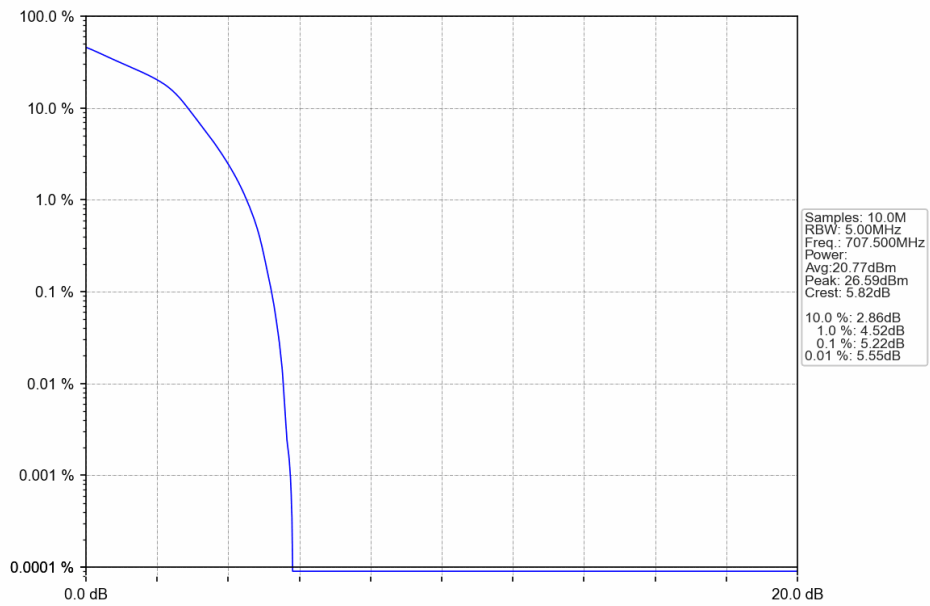
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



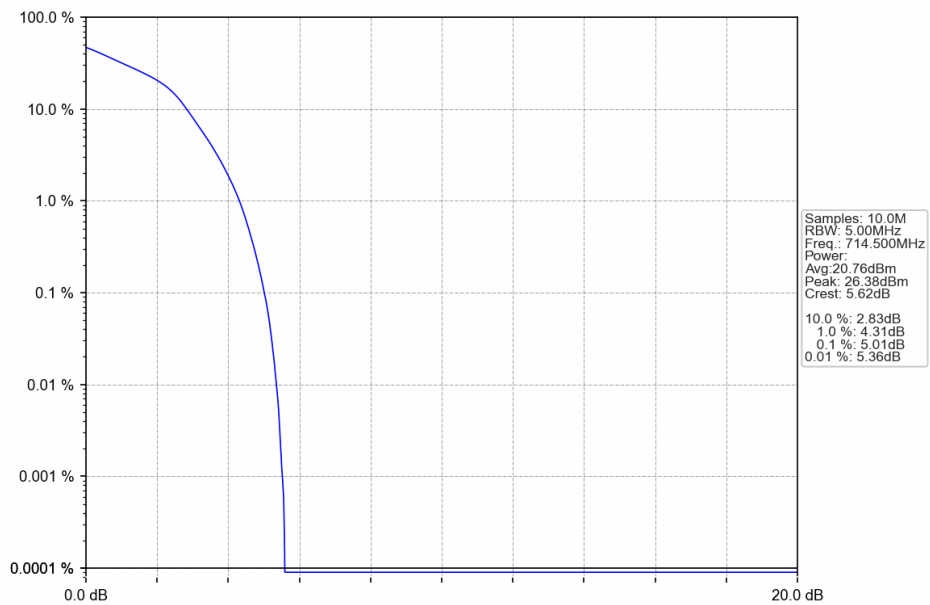
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

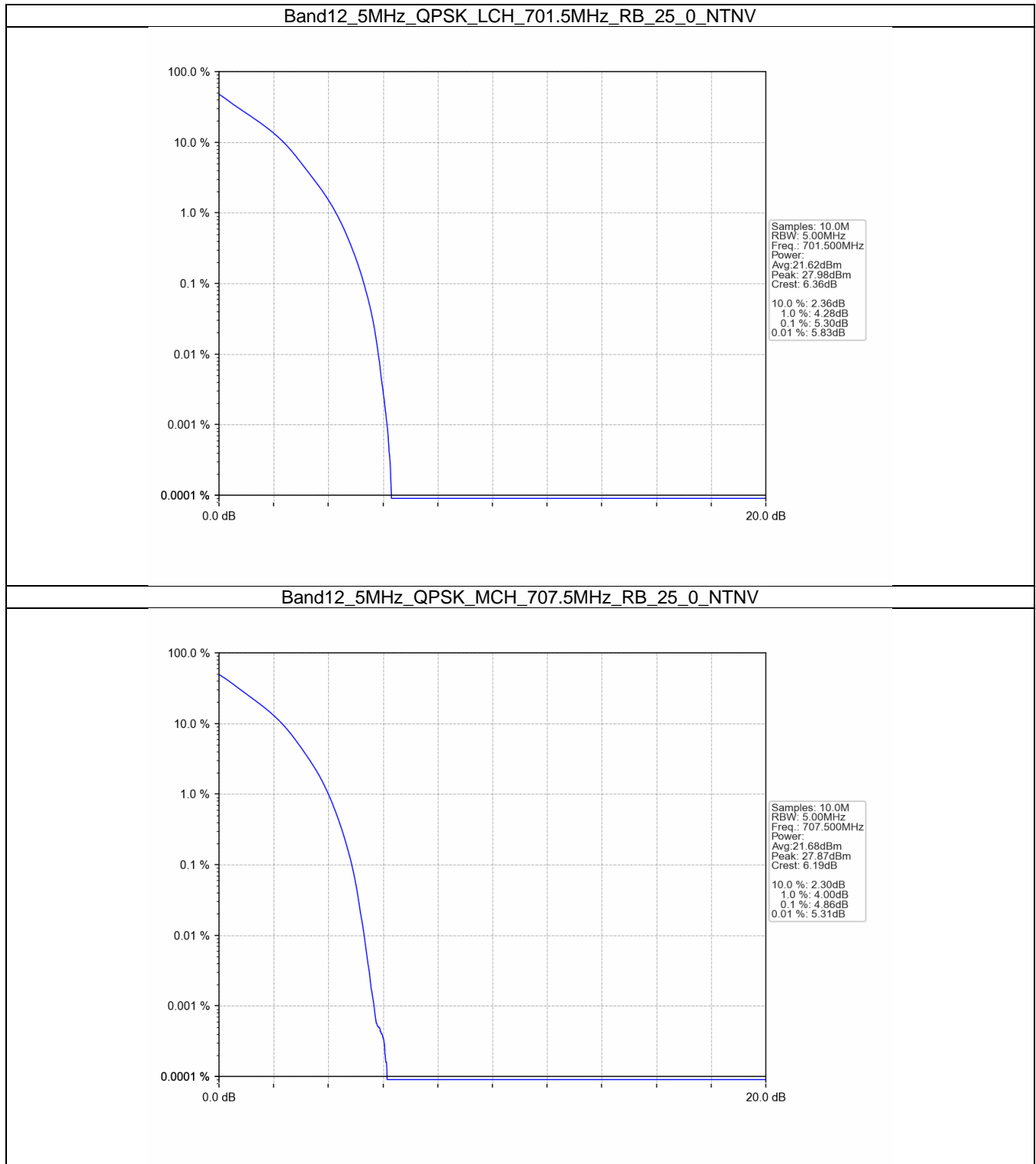


5.3 B12_5MHz

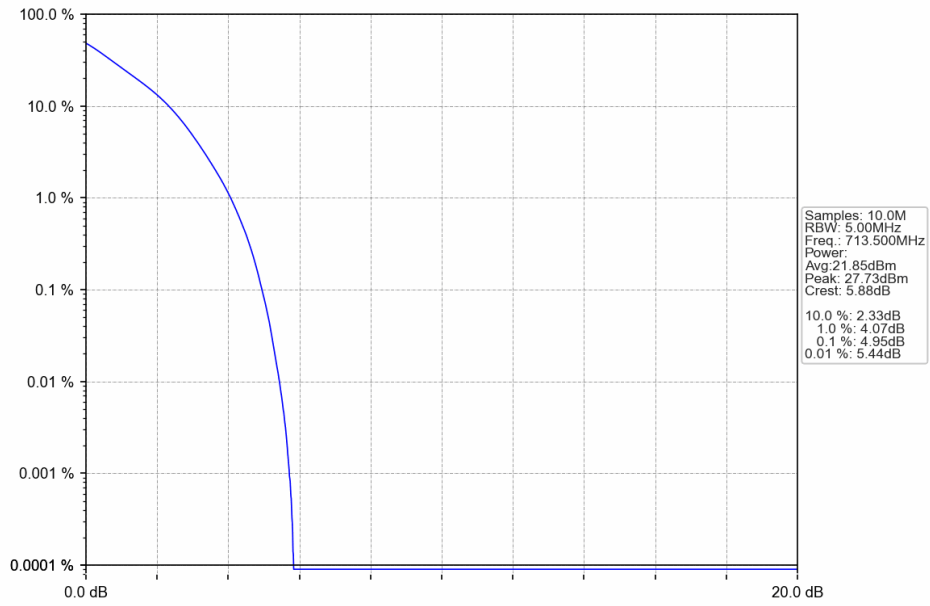
5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.30	<=13	Pass
	707.5	25	0	4.86	<=13	Pass
	713.5	25	0	4.95	<=13	Pass
16QAM	701.5	25	0	6.02	<=13	Pass
	707.5	25	0	5.57	<=13	Pass
	713.5	25	0	5.69	<=13	Pass

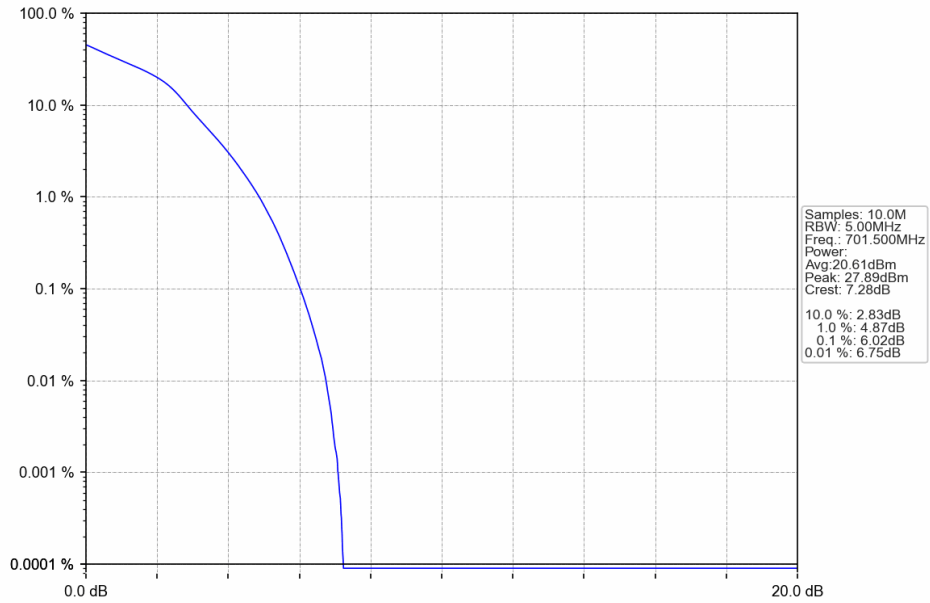
5.3.2 Test Graph



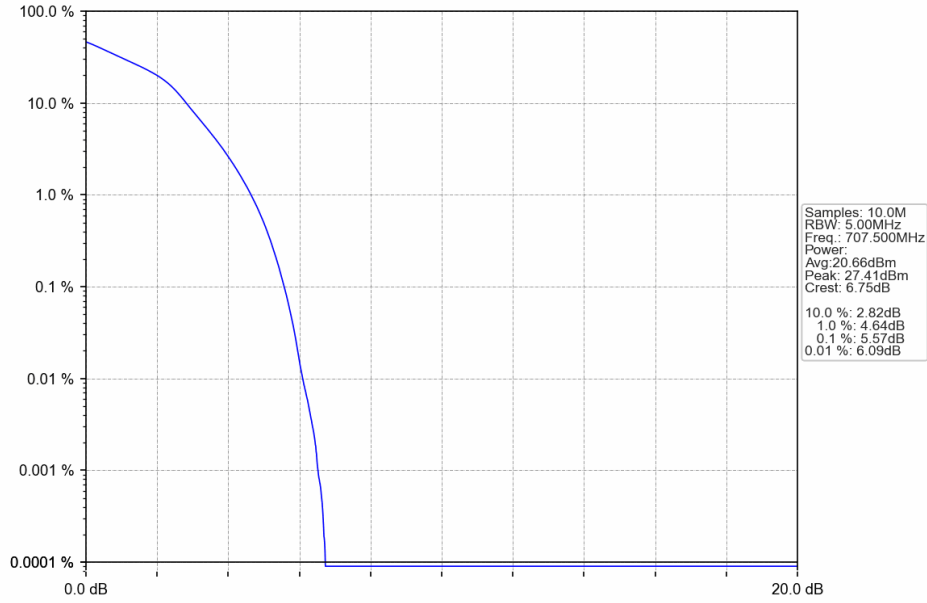
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



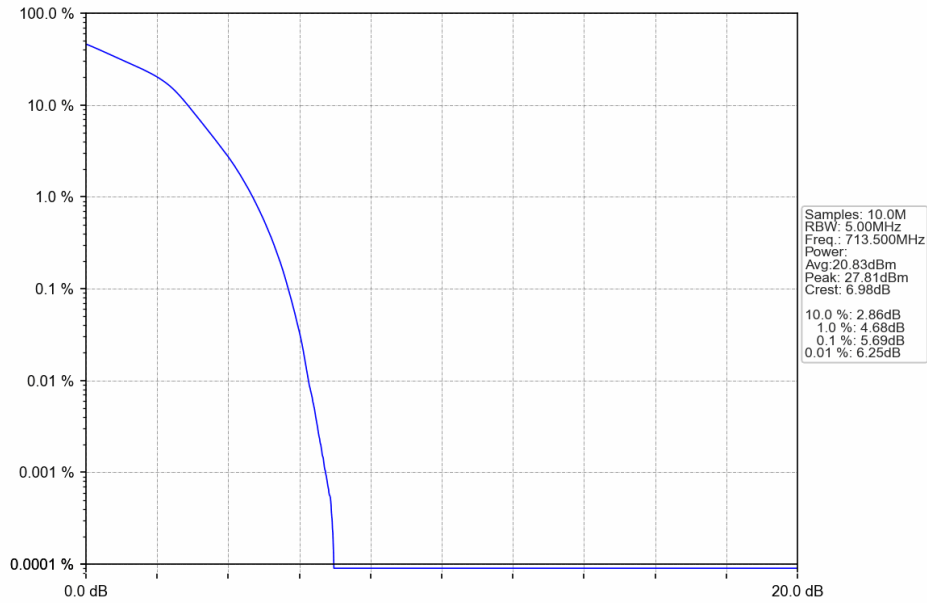
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

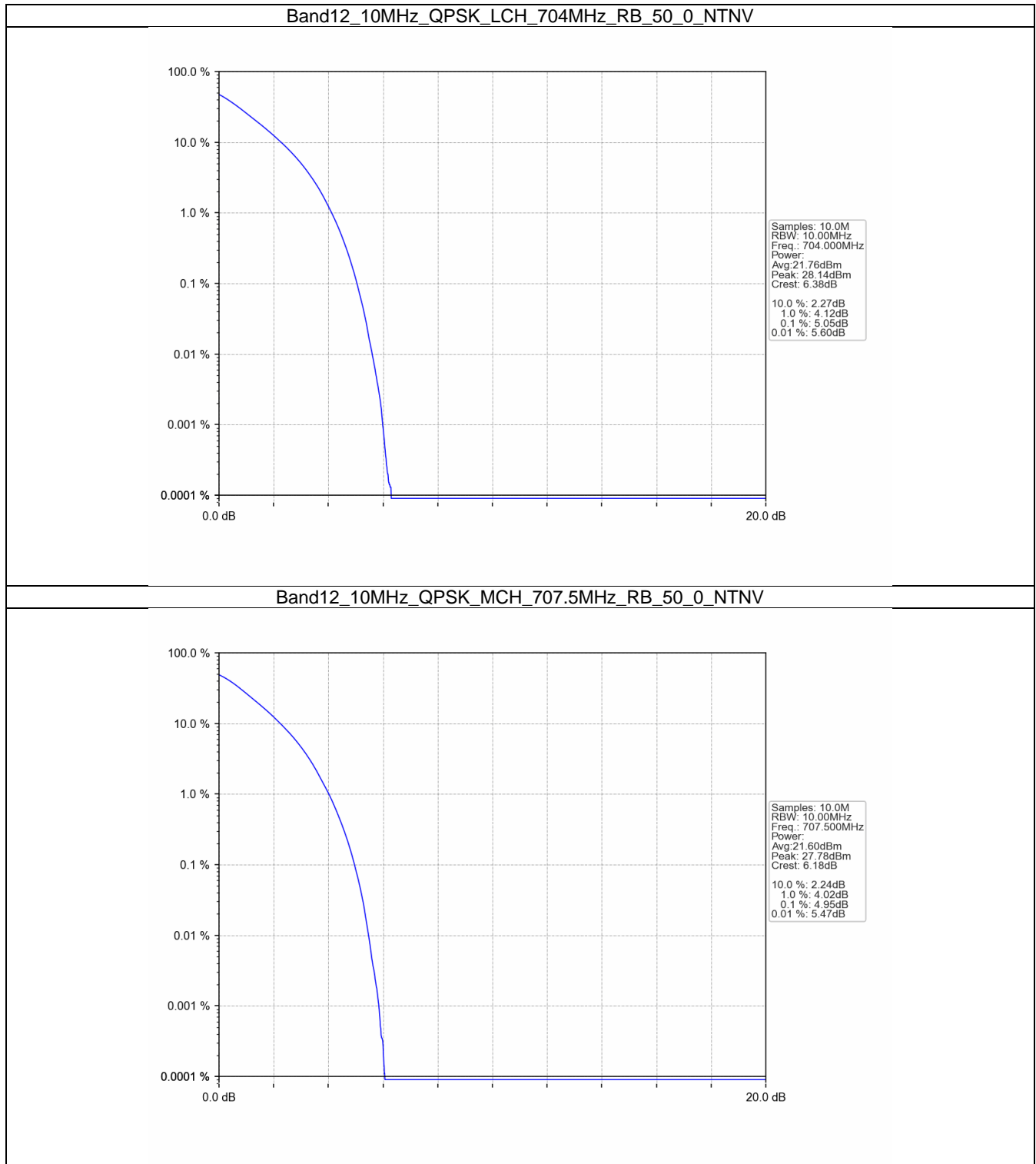


5.4 B12_10MHz

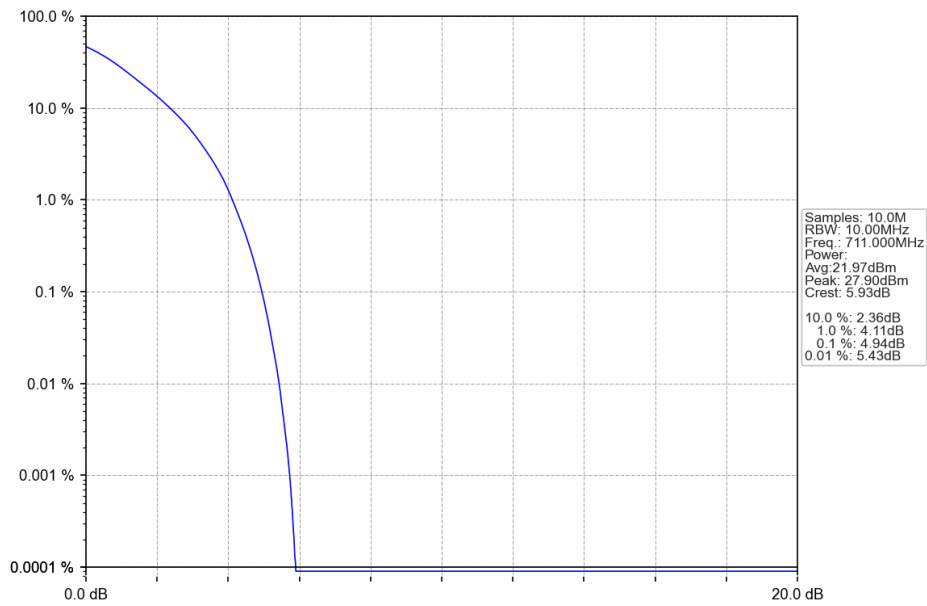
5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.05	<=13	Pass
	707.5	50	0	4.95	<=13	Pass
	711	50	0	4.94	<=13	Pass
16QAM	704	50	0	5.78	<=13	Pass
	707.5	50	0	5.75	<=13	Pass
	711	50	0	5.74	<=13	Pass

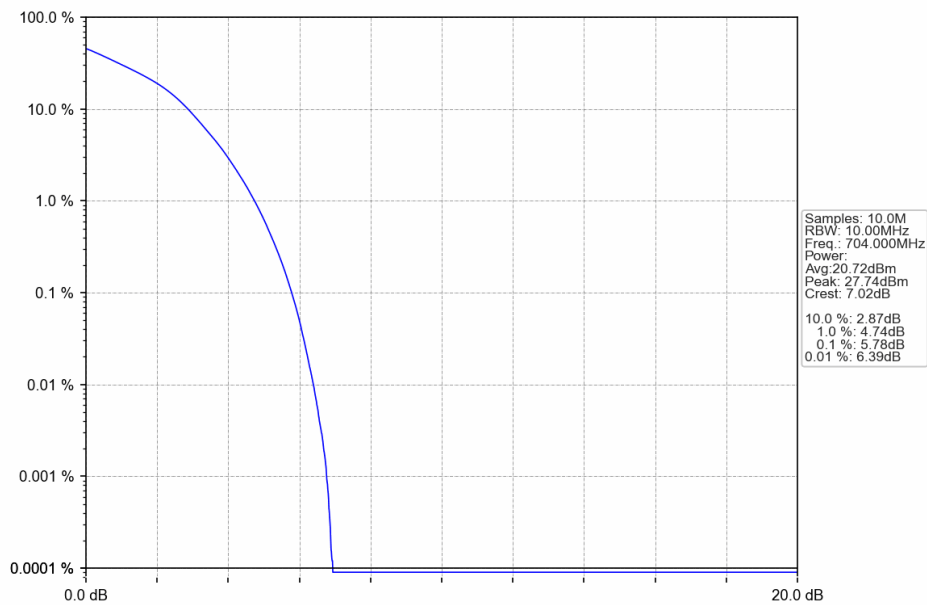
5.4.2 Test Graph



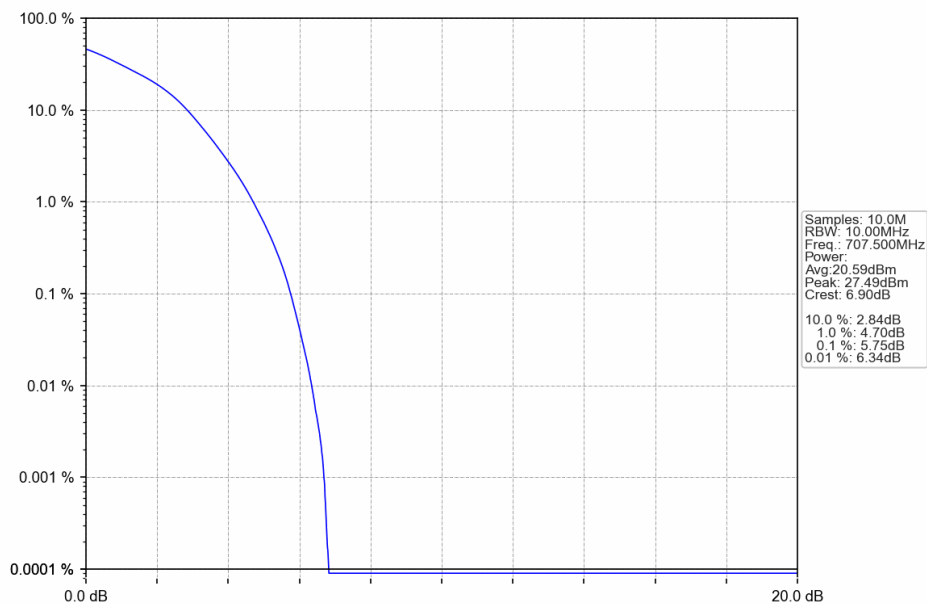
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



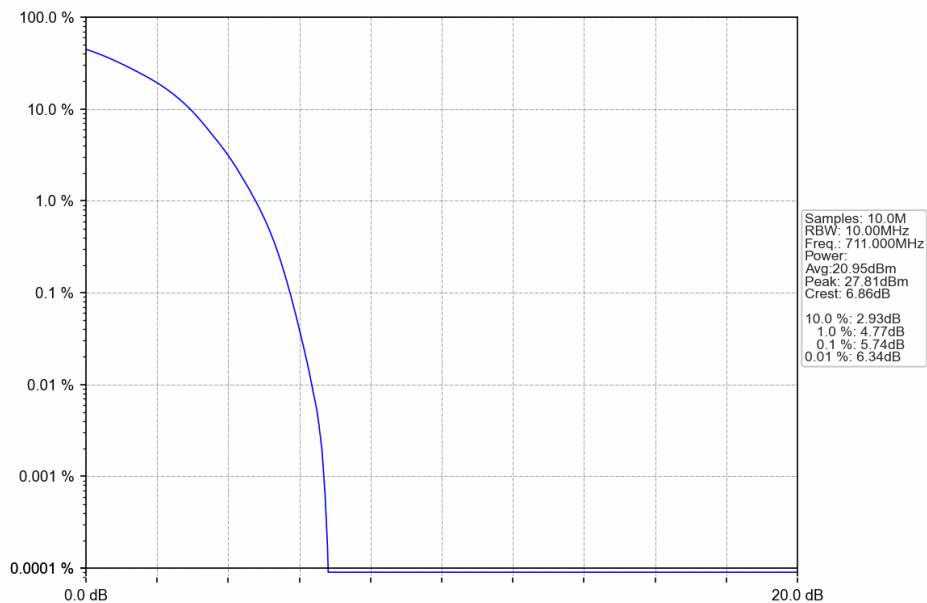
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



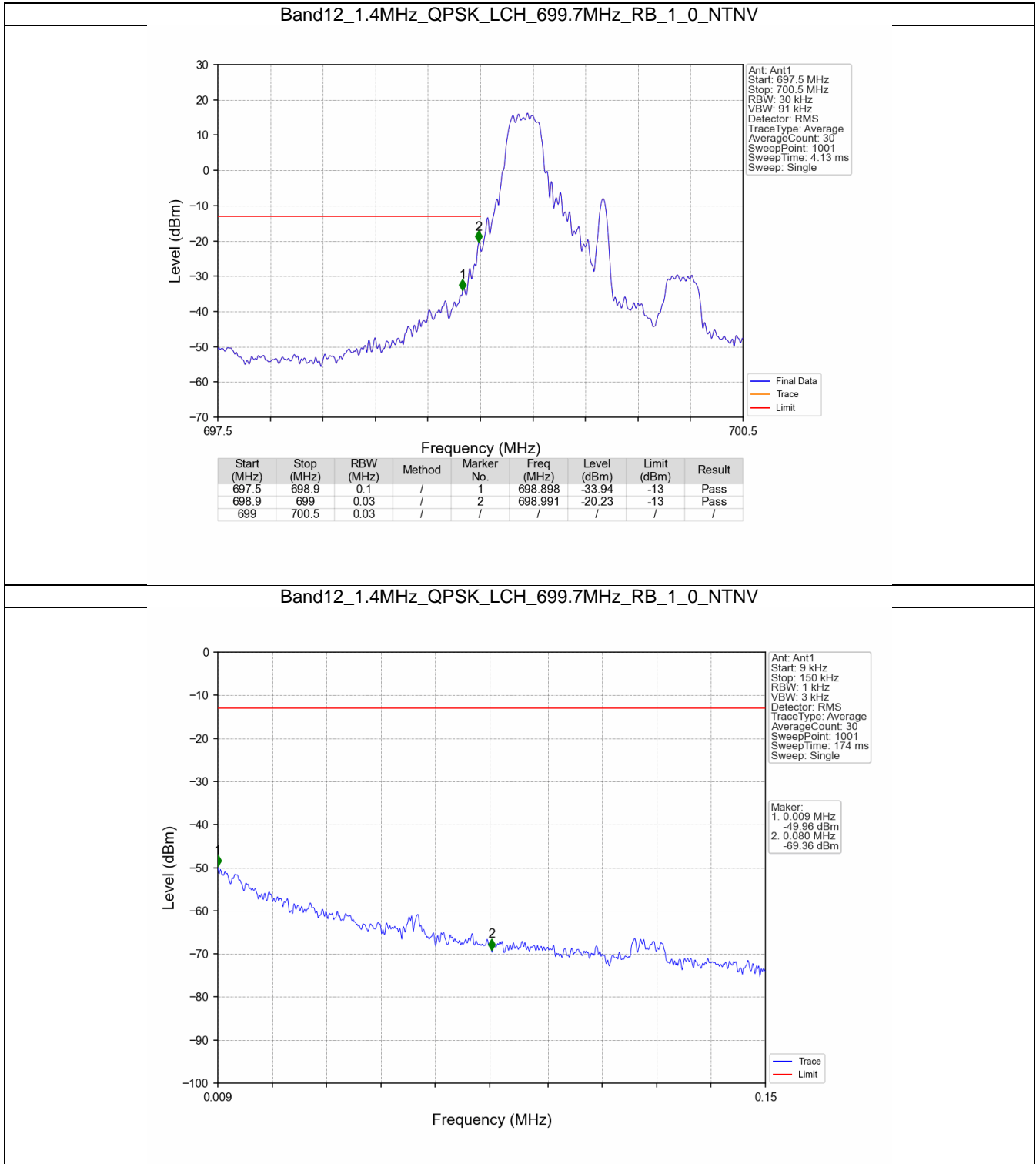
6. Spurious Emission

6.1 B12_1.4MHz

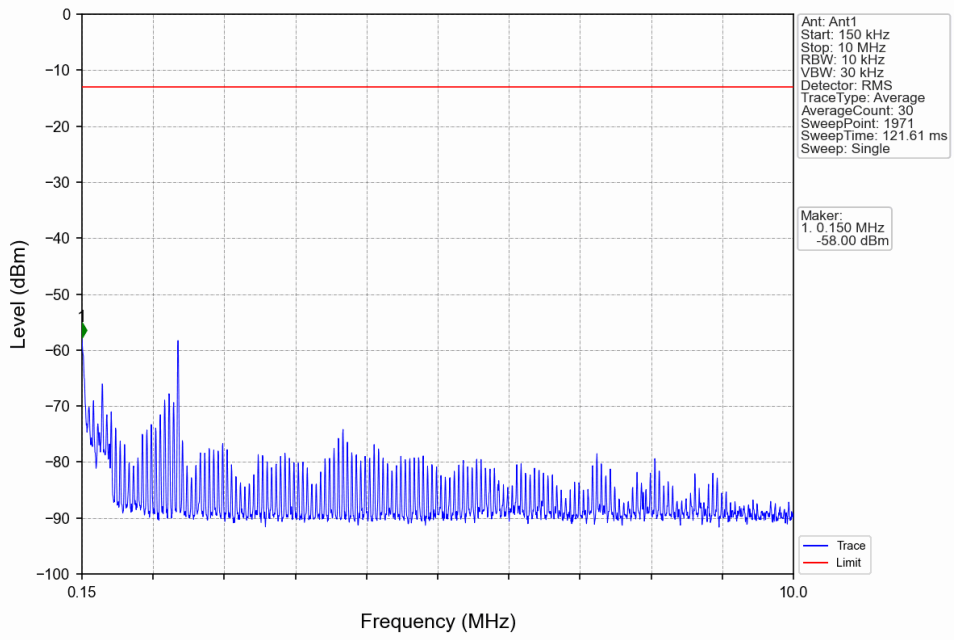
6.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		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	5	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	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

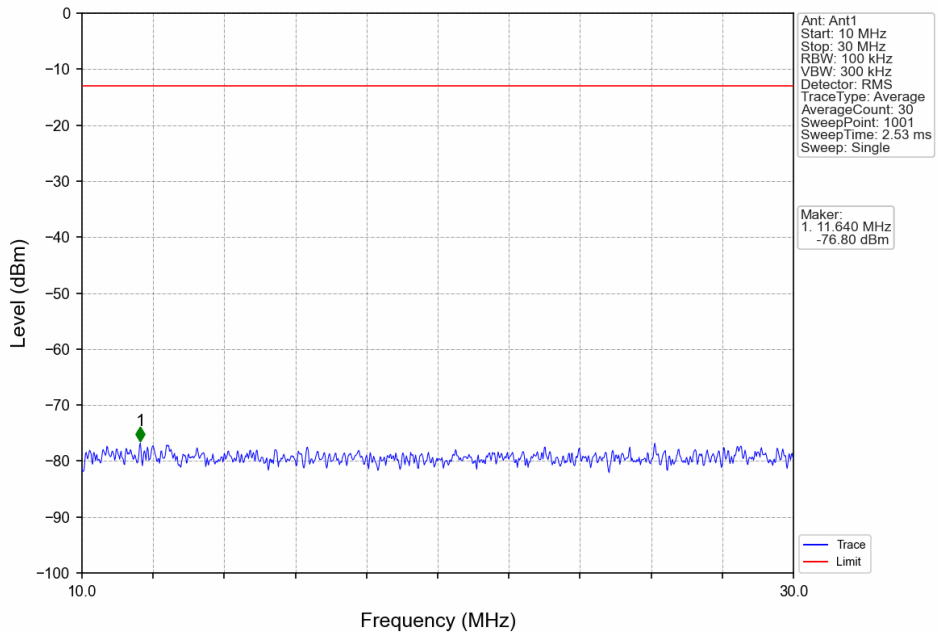
6.1.2 Test Graph



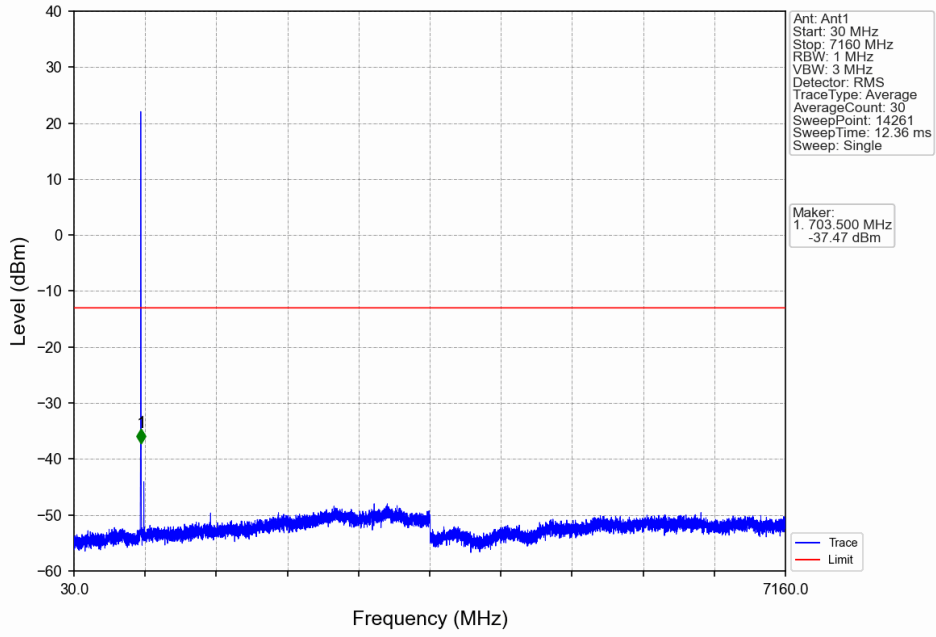
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



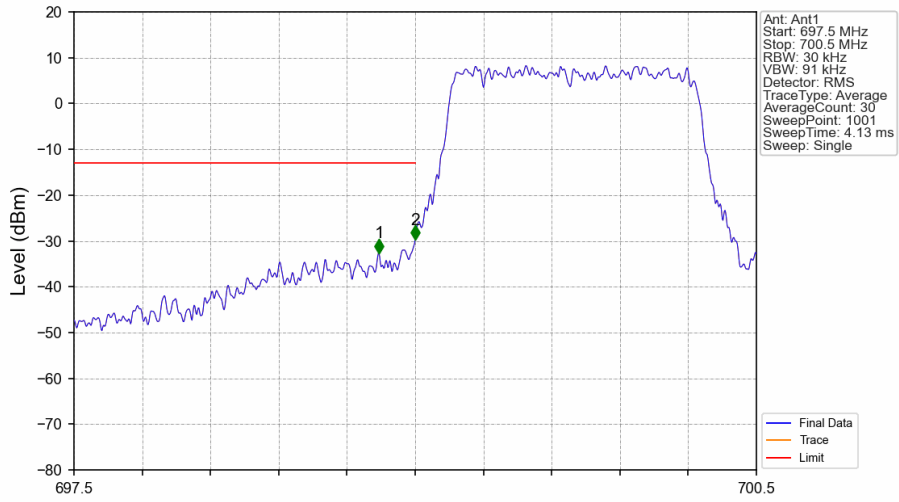
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

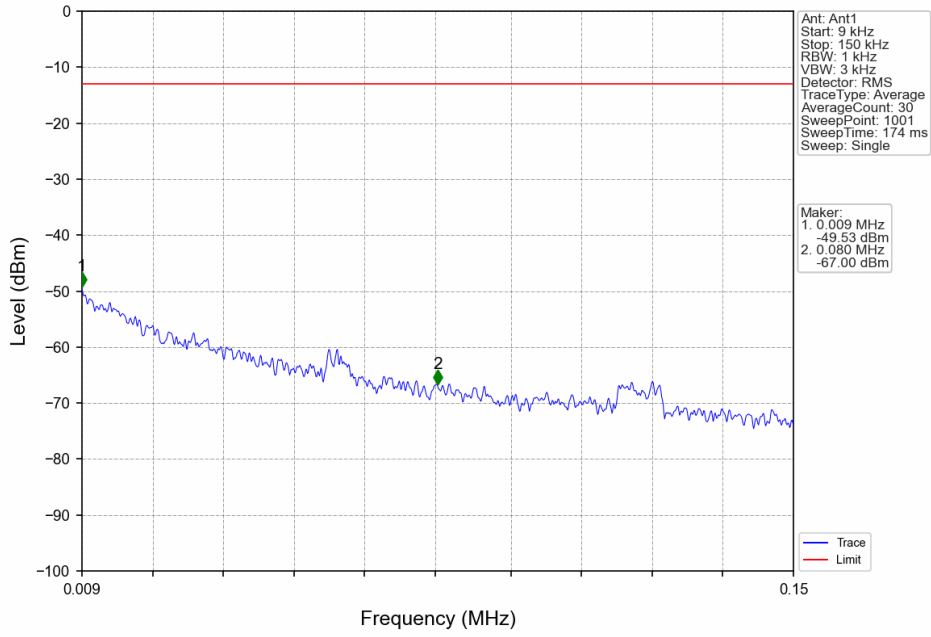


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

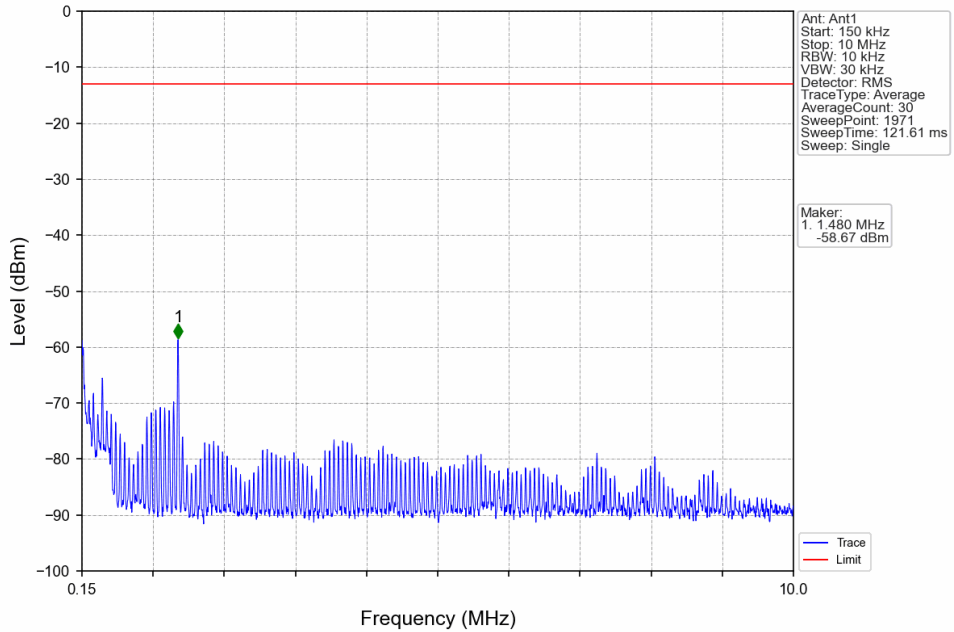


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	/	1	698.841	-32.66	-13	Pass
698.9	699	0.03	/	2	699.000	-29.79	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

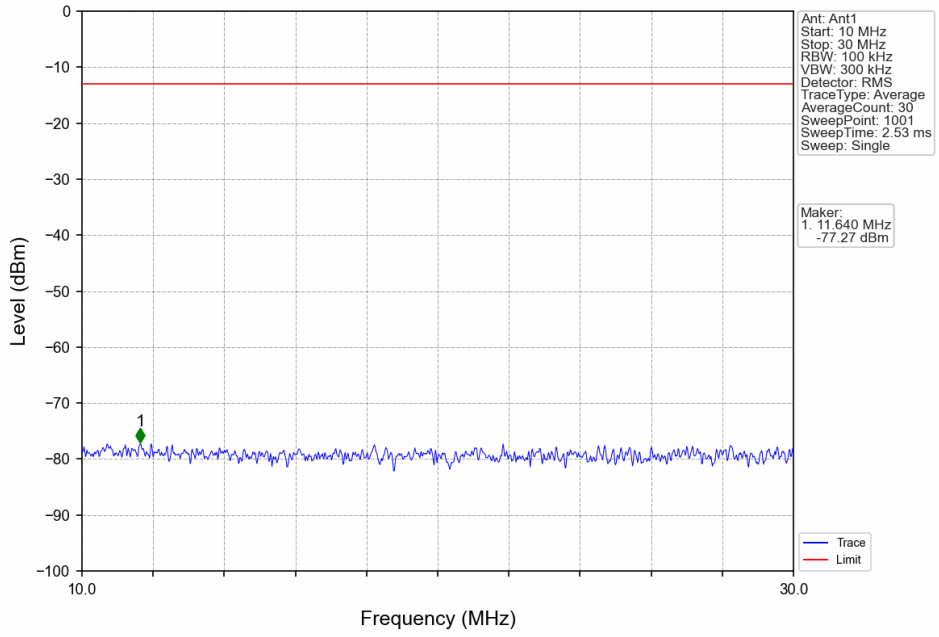
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



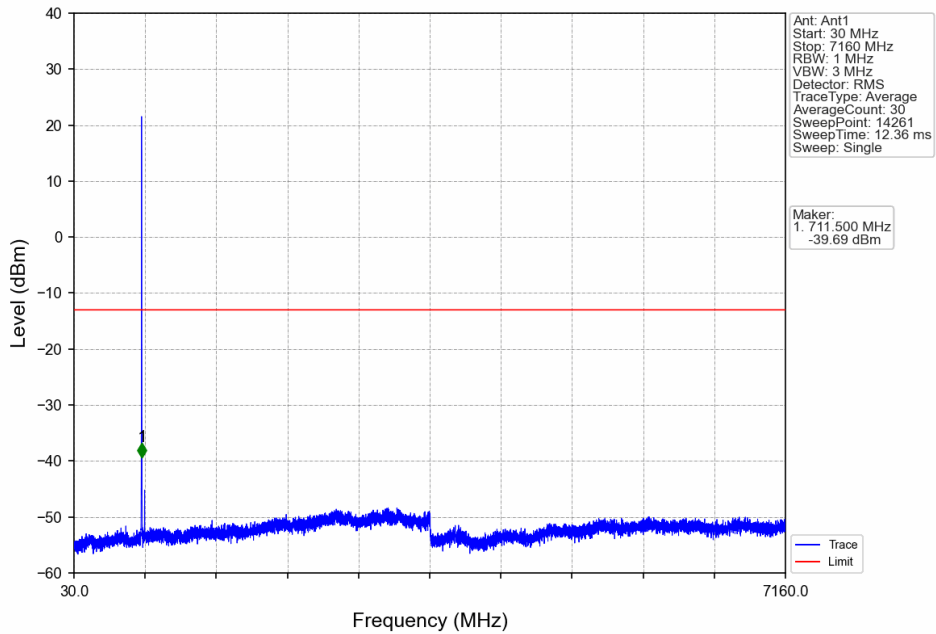
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



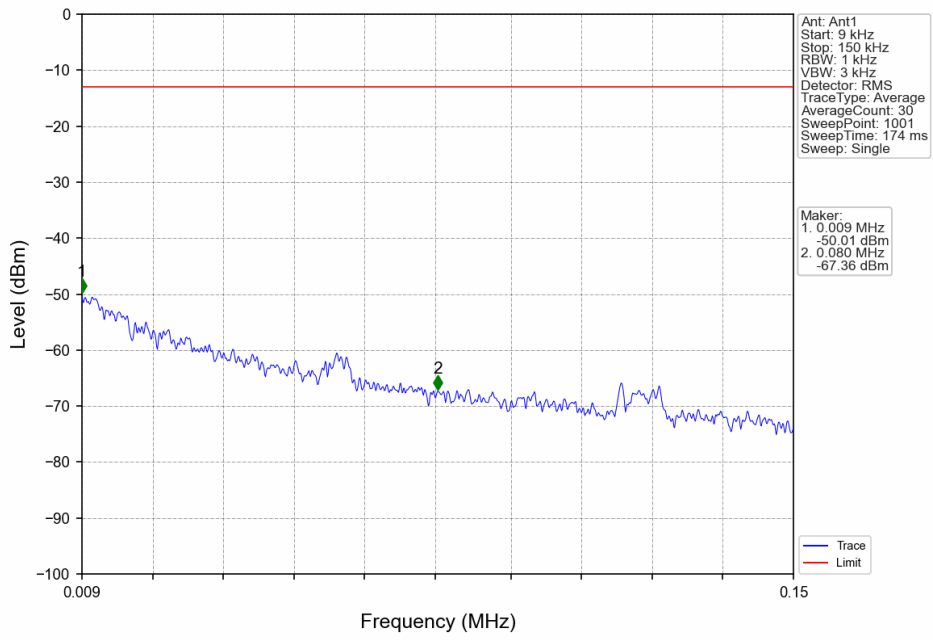
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



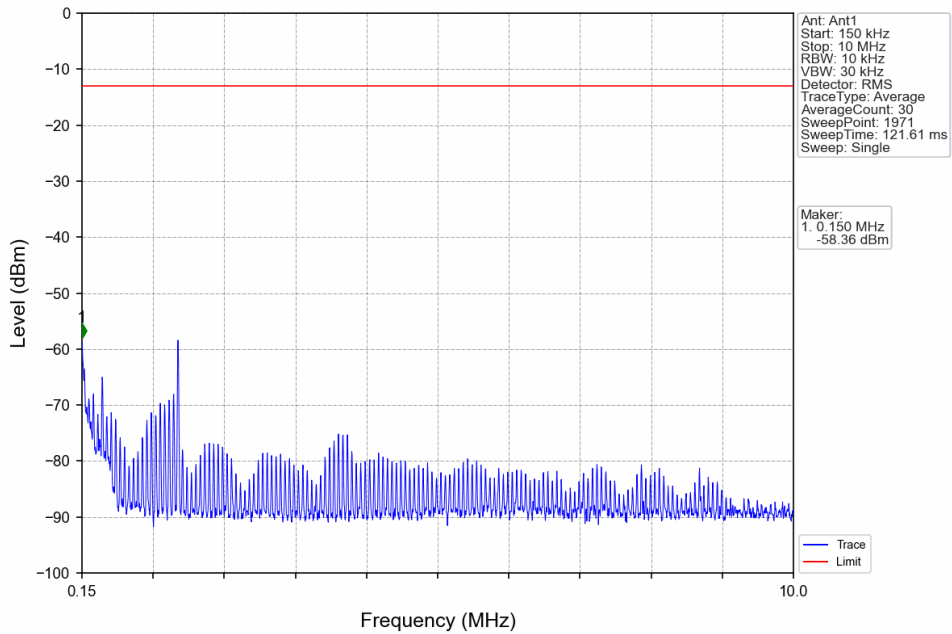
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



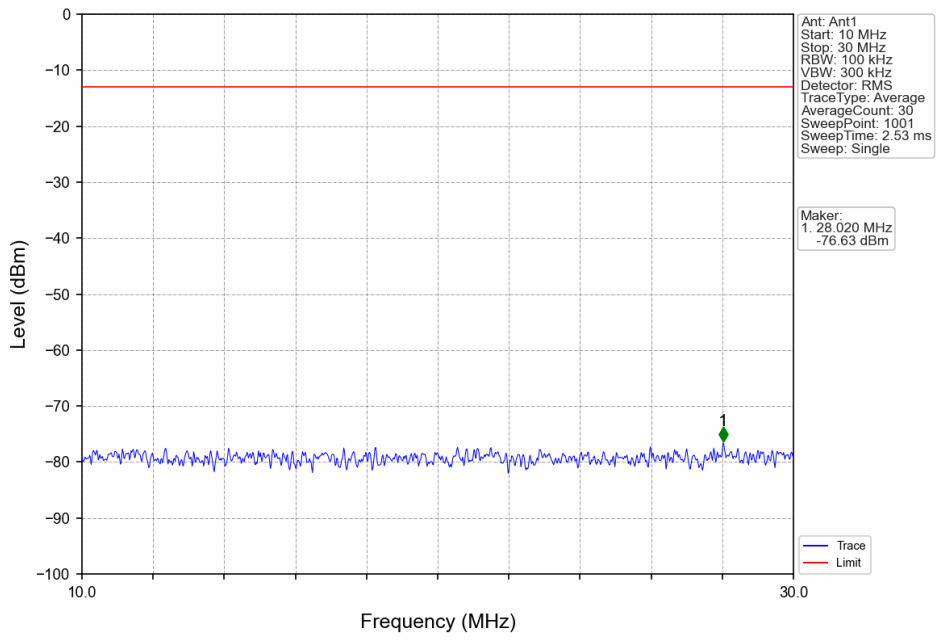
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



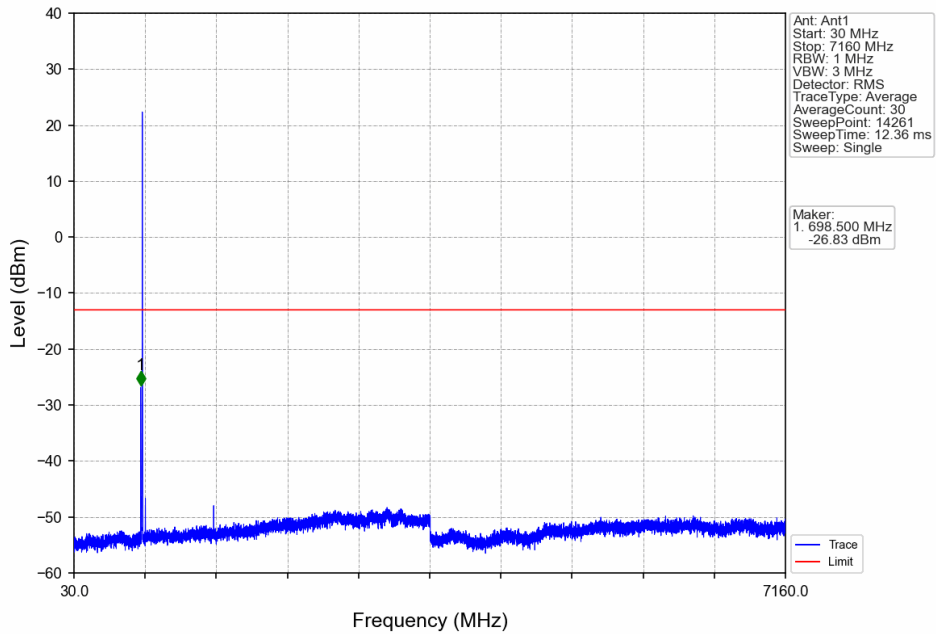
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



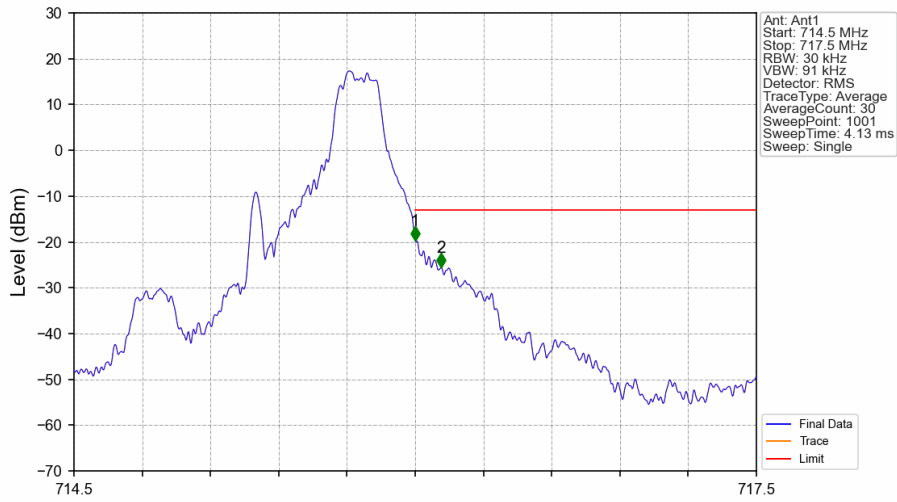
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

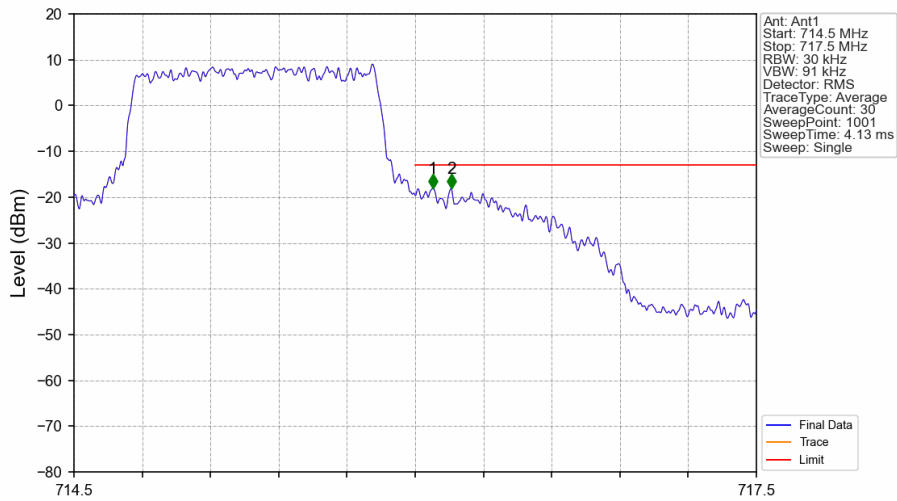


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-19.70	-13	Pass
716.1	717.5	0.1	/	2	716.114	-25.56	-13	Pass

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.078	-18.09	-13	Pass
716.1	717.5	0.1	/	2	716.159	-18.16	-13	Pass