

# 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	22.81	0.48	21.14	<=34.77	Pass		
			2	22.93	0.48	21.26	<=34.77	Pass		
			5	22.83	0.48	21.16	<=34.77	Pass		
		3	0	22.95	0.48	21.28	<=34.77	Pass		
			2	22.99	0.48	21.32	<=34.77	Pass		
			3	22.94	0.48	21.27	<=34.77	Pass		
		6	0	21.94	0.48	20.27	<=34.77	Pass		
		707.5	1	0	23.02	0.48	21.35	<=34.77	Pass	
				2	23.11	0.48	21.44	<=34.77	Pass	
	5			23.01	0.48	21.34	<=34.77	Pass		
	3		0	23.03	0.48	21.36	<=34.77	Pass		
			2	23.06	0.48	21.39	<=34.77	Pass		
			3	23.04	0.48	21.37	<=34.77	Pass		
	6	0	22.07	0.48	20.40	<=34.77	Pass			
	715.3	1	0	23.06	0.48	21.39	<=34.77	Pass		
			2	23.22	0.48	21.55	<=34.77	Pass		
			5	23.15	0.48	21.48	<=34.77	Pass		
		3	0	23.00	0.48	21.33	<=34.77	Pass		
			2	23.05	0.48	21.38	<=34.77	Pass		
			3	22.98	0.48	21.31	<=34.77	Pass		
		6	0	22.24	0.48	20.57	<=34.77	Pass		
		16QAM	699.7	1	0	21.88	0.48	20.21	<=34.77	Pass
					2	21.94	0.48	20.27	<=34.77	Pass
	5				21.88	0.48	20.21	<=34.77	Pass	
3	0			22.10	0.48	20.43	<=34.77	Pass		
	2			22.15	0.48	20.48	<=34.77	Pass		
	3			22.11	0.48	20.44	<=34.77	Pass		
6	0			20.94	0.48	19.27	<=34.77	Pass		
707.5	1			0	21.95	0.48	20.28	<=34.77	Pass	
				2	22.05	0.48	20.38	<=34.77	Pass	
			5	22.03	0.48	20.36	<=34.77	Pass		
	3		0	22.03	0.48	20.36	<=34.77	Pass		
			2	22.05	0.48	20.38	<=34.77	Pass		
			3	22.02	0.48	20.35	<=34.77	Pass		
6	0		20.98	0.48	19.31	<=34.77	Pass			
715.3	1		0	22.07	0.48	20.40	<=34.77	Pass		
			2	22.21	0.48	20.54	<=34.77	Pass		
			5	22.09	0.48	20.42	<=34.77	Pass		
	3		0	21.89	0.48	20.22	<=34.77	Pass		
			2	21.91	0.48	20.24	<=34.77	Pass		
			3	21.87	0.48	20.20	<=34.77	Pass		
	6		0	21.07	0.48	19.40	<=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	22.99	0.48	21.32	<=34.77	Pass		
			7	23.17	0.48	21.50	<=34.77	Pass		
			14	23.06	0.48	21.39	<=34.77	Pass		
		8	0	22.06	0.48	20.39	<=34.77	Pass		
			4	22.07	0.48	20.40	<=34.77	Pass		
			7	22.04	0.48	20.37	<=34.77	Pass		
		15	0	22.00	0.48	20.33	<=34.77	Pass		
		707.5	1	0	23.10	0.48	21.43	<=34.77	Pass	
				7	23.23	0.48	21.56	<=34.77	Pass	
	14			23.10	0.48	21.43	<=34.77	Pass		
	8		0	22.15	0.48	20.48	<=34.77	Pass		
			4	22.17	0.48	20.50	<=34.77	Pass		
			7	22.11	0.48	20.44	<=34.77	Pass		
	15		0	22.09	0.48	20.42	<=34.77	Pass		
	714.5		1	0	23.08	0.48	21.41	<=34.77	Pass	
				7	23.32	0.48	21.65	<=34.77	Pass	
		14		23.31	0.48	21.64	<=34.77	Pass		
		8	0	22.11	0.48	20.44	<=34.77	Pass		
			4	22.22	0.48	20.55	<=34.77	Pass		
			7	22.24	0.48	20.57	<=34.77	Pass		
		15	0	22.12	0.48	20.45	<=34.77	Pass		
		16QAM	700.5	1	0	22.02	0.48	20.35	<=34.77	Pass
					7	22.16	0.48	20.49	<=34.77	Pass
	14				22.04	0.48	20.37	<=34.77	Pass	
8	0			21.09	0.48	19.42	<=34.77	Pass		
	4			21.13	0.48	19.46	<=34.77	Pass		
	7			21.09	0.48	19.42	<=34.77	Pass		
15	0			21.04	0.48	19.37	<=34.77	Pass		
707.5	1			0	22.21	0.48	20.54	<=34.77	Pass	
				7	22.37	0.48	20.70	<=34.77	Pass	
			14	22.27	0.48	20.60	<=34.77	Pass		
	8		0	21.09	0.48	19.42	<=34.77	Pass		
			4	21.14	0.48	19.47	<=34.77	Pass		
			7	21.08	0.48	19.41	<=34.77	Pass		
	15		0	21.04	0.48	19.37	<=34.77	Pass		
	714.5		1	0	22.52	0.48	20.85	<=34.77	Pass	
				7	22.52	0.48	20.85	<=34.77	Pass	
14				22.38	0.48	20.71	<=34.77	Pass		
8			0	21.19	0.48	19.52	<=34.77	Pass		
			4	21.26	0.48	19.59	<=34.77	Pass		
			7	21.27	0.48	19.60	<=34.77	Pass		
15			0	21.12	0.48	19.45	<=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
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	701.5	1	0	22.85	0.48	21.18	<=34.77	Pass		
			13	23.02	0.48	21.35	<=34.77	Pass		
			24	22.94	0.48	21.27	<=34.77	Pass		
		12	0	21.92	0.48	20.25	<=34.77	Pass		
			6	22.00	0.48	20.33	<=34.77	Pass		
			13	22.04	0.48	20.37	<=34.77	Pass		
		25	0	21.97	0.48	20.30	<=34.77	Pass		
		707.5	1	0	22.90	0.48	21.23	<=34.77	Pass	
				13	23.01	0.48	21.34	<=34.77	Pass	
	24			22.92	0.48	21.25	<=34.77	Pass		
	12		0	22.00	0.48	20.33	<=34.77	Pass		
			6	22.07	0.48	20.40	<=34.77	Pass		
			13	21.91	0.48	20.24	<=34.77	Pass		
	25		0	21.93	0.48	20.26	<=34.77	Pass		
	713.5		1	0	22.94	0.48	21.27	<=34.77	Pass	
				13	23.04	0.48	21.37	<=34.77	Pass	
		24		22.89	0.48	21.22	<=34.77	Pass		
		12	0	21.75	0.48	20.08	<=34.77	Pass		
			6	21.81	0.48	20.14	<=34.77	Pass		
			13	21.89	0.48	20.22	<=34.77	Pass		
		25	0	21.88	0.48	20.21	<=34.77	Pass		
		16QAM	701.5	1	0	21.91	0.48	20.24	<=34.77	Pass
					13	22.06	0.48	20.39	<=34.77	Pass
	24				21.99	0.48	20.32	<=34.77	Pass	
12	0			20.90	0.48	19.23	<=34.77	Pass		
	6			20.97	0.48	19.30	<=34.77	Pass		
	13			20.97	0.48	19.30	<=34.77	Pass		
25	0			20.99	0.48	19.32	<=34.77	Pass		
707.5	1			0	22.06	0.48	20.39	<=34.77	Pass	
				13	22.25	0.48	20.58	<=34.77	Pass	
			24	22.19	0.48	20.52	<=34.77	Pass		
	12		0	21.04	0.48	19.37	<=34.77	Pass		
			6	21.05	0.48	19.38	<=34.77	Pass		
			13	20.91	0.48	19.24	<=34.77	Pass		
	25		0	20.93	0.48	19.26	<=34.77	Pass		
	713.5		1	0	21.44	0.48	19.77	<=34.77	Pass	
				13	21.53	0.48	19.86	<=34.77	Pass	
24				21.36	0.48	19.69	<=34.77	Pass		
12			0	20.65	0.48	18.98	<=34.77	Pass		
			6	20.81	0.48	19.14	<=34.77	Pass		
			13	20.89	0.48	19.22	<=34.77	Pass		
25			0	21.02	0.48	19.35	<=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	22.86	0.48	21.19	<=34.77	Pass
			25	23.24	0.48	21.57	<=34.77	Pass

16QAM	707.5	25	49	23.05	0.48	21.38	<=34.77	Pass	
			0	21.93	0.48	20.26	<=34.77	Pass	
			13	22.06	0.48	20.39	<=34.77	Pass	
			25	22.01	0.48	20.34	<=34.77	Pass	
		50	0	22.01	0.48	20.34	<=34.77	Pass	
		1	0	22.85	0.48	21.18	<=34.77	Pass	
			25	23.18	0.48	21.51	<=34.77	Pass	
			49	23.00	0.48	21.33	<=34.77	Pass	
			25	0	21.90	0.48	20.23	<=34.77	Pass
	13			22.07	0.48	20.40	<=34.77	Pass	
	25			21.83	0.48	20.16	<=34.77	Pass	
	50	0	21.89	0.48	20.22	<=34.77	Pass		
	711	1	0	22.96	0.48	21.29	<=34.77	Pass	
			25	23.22	0.48	21.55	<=34.77	Pass	
			49	23.20	0.48	21.53	<=34.77	Pass	
		25	0	22.21	0.48	20.54	<=34.77	Pass	
			13	22.13	0.48	20.46	<=34.77	Pass	
			25	22.20	0.48	20.53	<=34.77	Pass	
		50	0	22.18	0.48	20.51	<=34.77	Pass	
		704	1	0	21.88	0.48	20.21	<=34.77	Pass
				25	22.18	0.48	20.51	<=34.77	Pass
	49			22.02	0.48	20.35	<=34.77	Pass	
	25			0	20.96	0.48	19.29	<=34.77	Pass
				13	21.13	0.48	19.46	<=34.77	Pass
			25	21.05	0.48	19.38	<=34.77	Pass	
	50		0	21.04	0.48	19.37	<=34.77	Pass	
	707.5		1	0	22.02	0.48	20.35	<=34.77	Pass
25				22.33	0.48	20.66	<=34.77	Pass	
49				22.19	0.48	20.52	<=34.77	Pass	
25			0	20.92	0.48	19.25	<=34.77	Pass	
			13	21.07	0.48	19.40	<=34.77	Pass	
			25	20.83	0.48	19.16	<=34.77	Pass	
50	0		20.89	0.48	19.22	<=34.77	Pass		
711	1		0	22.28	0.48	20.61	<=34.77	Pass	
		25	22.70	0.48	21.03	<=34.77	Pass		
		49	22.35	0.48	20.68	<=34.77	Pass		
	25	0	21.28	0.48	19.61	<=34.77	Pass		
		13	21.22	0.48	19.55	<=34.77	Pass		
		25	21.25	0.48	19.58	<=34.77	Pass		
	50	0	21.27	0.48	19.60	<=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	-2.804	-0.0040	-2.5 to 2.5	Pass				
									3.85	-6.824	-0.0098	-2.5 to 2.5	Pass
									4.43	-6.037	-0.0086	-2.5 to 2.5	Pass

				-30	3.85	-4.449	-0.0064	-2.5 to 2.5	Pass			
				-20	3.85	-5.121	-0.0073	-2.5 to 2.5	Pass			
				-10	3.85	-5.193	-0.0074	-2.5 to 2.5	Pass			
				0	3.85	-8.039	-0.0115	-2.5 to 2.5	Pass			
				10	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass			
				30	3.85	-4.206	-0.0060	-2.5 to 2.5	Pass			
				40	3.85	-5.894	-0.0084	-2.5 to 2.5	Pass			
	50	3.85	-9.112	-0.0130	-2.5 to 2.5	Pass						
	707.5	6	0	20	3.27	-1.345	-0.0019	-2.5 to 2.5	Pass			
					3.85	-3.505	-0.0050	-2.5 to 2.5	Pass			
					4.43	-6.180	-0.0087	-2.5 to 2.5	Pass			
				-30	3.85	-7.567	-0.0107	-2.5 to 2.5	Pass			
				-20	3.85	-5.193	-0.0073	-2.5 to 2.5	Pass			
				-10	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass			
				0	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass			
				10	3.85	-5.207	-0.0074	-2.5 to 2.5	Pass			
				30	3.85	-5.922	-0.0084	-2.5 to 2.5	Pass			
				40	3.85	-8.941	-0.0126	-2.5 to 2.5	Pass			
				50	3.85	-6.537	-0.0092	-2.5 to 2.5	Pass			
				715.3	6	0	20	3.27	-7.081	-0.0099	-2.5 to 2.5	Pass
								3.85	-9.012	-0.0126	-2.5 to 2.5	Pass
								4.43	-6.123	-0.0086	-2.5 to 2.5	Pass
	-30	3.85	-4.449				-0.0062	-2.5 to 2.5	Pass			
	-20	3.85	-5.879				-0.0082	-2.5 to 2.5	Pass			
	-10	3.85	-8.740				-0.0122	-2.5 to 2.5	Pass			
	0	3.85	-4.048				-0.0057	-2.5 to 2.5	Pass			
	10	3.85	-3.934				-0.0055	-2.5 to 2.5	Pass			
30	3.85	-4.363	-0.0061				-2.5 to 2.5	Pass				
40	3.85	-5.836	-0.0082				-2.5 to 2.5	Pass				
50	3.85	-3.576	-0.0050				-2.5 to 2.5	Pass				
16QAM	699.7	6	0	20	3.27	-5.236	-0.0075	-2.5 to 2.5	Pass			
					3.85	-5.679	-0.0081	-2.5 to 2.5	Pass			
					4.43	-9.499	-0.0136	-2.5 to 2.5	Pass			
				-30	3.85	-5.708	-0.0082	-2.5 to 2.5	Pass			
				-20	3.85	-6.738	-0.0096	-2.5 to 2.5	Pass			
				-10	3.85	-4.005	-0.0057	-2.5 to 2.5	Pass			
				0	3.85	-5.422	-0.0077	-2.5 to 2.5	Pass			
				10	3.85	-7.181	-0.0103	-2.5 to 2.5	Pass			
				30	3.85	-5.307	-0.0076	-2.5 to 2.5	Pass			
				40	3.85	-6.223	-0.0089	-2.5 to 2.5	Pass			
				50	3.85	-7.524	-0.0108	-2.5 to 2.5	Pass			
				707.5	6	0	20	3.27	-2.060	-0.0029	-2.5 to 2.5	Pass
								3.85	-6.051	-0.0086	-2.5 to 2.5	Pass
								4.43	-7.110	-0.0100	-2.5 to 2.5	Pass
	-30	3.85	-6.766				-0.0096	-2.5 to 2.5	Pass			
	-20	3.85	-6.752				-0.0095	-2.5 to 2.5	Pass			
	-10	3.85	-10.142				-0.0143	-2.5 to 2.5	Pass			
	0	3.85	-7.381				-0.0104	-2.5 to 2.5	Pass			
	10	3.85	-4.549				-0.0064	-2.5 to 2.5	Pass			
	30	3.85	-5.178				-0.0073	-2.5 to 2.5	Pass			
	40	3.85	-8.941				-0.0126	-2.5 to 2.5	Pass			
	50	3.85	-3.719				-0.0053	-2.5 to 2.5	Pass			
	715.3	6	0				20	3.27	-2.961	-0.0041	-2.5 to 2.5	Pass
								3.85	-2.303	-0.0032	-2.5 to 2.5	Pass
				4.43	-0.744	-0.0010		-2.5 to 2.5	Pass			
				-30	3.85	-3.176	-0.0044	-2.5 to 2.5	Pass			
	-20	3.85	-4.506	-0.0063	-2.5 to 2.5	Pass						

				-10	3.85	-7.353	-0.0103	-2.5 to 2.5	Pass
				0	3.85	-6.008	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-7.424	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-8.812	-0.0123	-2.5 to 2.5	Pass
				40	3.85	-9.842	-0.0138	-2.5 to 2.5	Pass
				50	3.85	-9.542	-0.0133	-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	-3.905	-0.0056	-2.5 to 2.5	Pass	
					3.85	-5.350	-0.0076	-2.5 to 2.5	Pass	
					4.43	-4.792	-0.0068	-2.5 to 2.5	Pass	
				-30	3.85	-7.496	-0.0107	-2.5 to 2.5	Pass	
					-20	3.85	-7.381	-0.0105	-2.5 to 2.5	Pass
						3.85	-2.446	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-4.678	-0.0067	-2.5 to 2.5	Pass	
					10	3.85	-8.497	-0.0121	-2.5 to 2.5	Pass
				30	3.85	-7.596	-0.0108	-2.5 to 2.5	Pass	
	40	3.85	-7.124		-0.0102	-2.5 to 2.5	Pass			
	50	3.85	-4.807	-0.0069	-2.5 to 2.5	Pass				
	707.5	15	0	20	3.27	-7.424	-0.0105	-2.5 to 2.5	Pass	
					3.85	-3.762	-0.0053	-2.5 to 2.5	Pass	
					4.43	-8.554	-0.0121	-2.5 to 2.5	Pass	
				-30	3.85	-6.738	-0.0095	-2.5 to 2.5	Pass	
					-20	3.85	-1.774	-0.0025	-2.5 to 2.5	Pass
						3.85	-2.418	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-6.537	-0.0092	-2.5 to 2.5	Pass	
					10	3.85	-2.818	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-9.499	-0.0134	-2.5 to 2.5	Pass	
	40	3.85	-7.067		-0.0100	-2.5 to 2.5	Pass			
	50	3.85	-7.210	-0.0102	-2.5 to 2.5	Pass				
	714.5	15	0	20	3.27	-7.868	-0.0110	-2.5 to 2.5	Pass	
					3.85	-8.125	-0.0114	-2.5 to 2.5	Pass	
					4.43	-7.095	-0.0099	-2.5 to 2.5	Pass	
				-30	3.85	-9.055	-0.0127	-2.5 to 2.5	Pass	
					-20	3.85	-6.523	-0.0091	-2.5 to 2.5	Pass
3.85						-4.249	-0.0059	-2.5 to 2.5	Pass	
0				3.85	-3.862	-0.0054	-2.5 to 2.5	Pass		
				10	3.85	-6.723	-0.0094	-2.5 to 2.5	Pass	
30				3.85	-0.615	-0.0009	-2.5 to 2.5	Pass		
	40	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass				
50	3.85	-6.537	-0.0091	-2.5 to 2.5	Pass					
16QAM	700.5	15	0	20	3.27	-6.852	-0.0098	-2.5 to 2.5	Pass	
					3.85	-6.237	-0.0089	-2.5 to 2.5	Pass	
					4.43	-4.892	-0.0070	-2.5 to 2.5	Pass	
				-30	3.85	-8.068	-0.0115	-2.5 to 2.5	Pass	
					-20	3.85	-7.911	-0.0113	-2.5 to 2.5	Pass
				-10	3.85	-7.524	-0.0107	-2.5 to 2.5	Pass	
					0	3.85	-4.263	-0.0061	-2.5 to 2.5	Pass
10	3.85	-3.819	-0.0055	-2.5 to 2.5	Pass					

	707.5	15	0	30	3.85	-3.519	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-6.995	-0.0100	-2.5 to 2.5	Pass
				50	3.85	-4.463	-0.0064	-2.5 to 2.5	Pass
				20	3.27	-5.293	-0.0075	-2.5 to 2.5	Pass
					3.85	-7.167	-0.0101	-2.5 to 2.5	Pass
					4.43	-5.636	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-5.822	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-7.839	-0.0111	-2.5 to 2.5	Pass
				-10	3.85	-7.095	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-4.449	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-5.865	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-8.469	-0.0120	-2.5 to 2.5	Pass
	40	3.85	-6.852	-0.0097	-2.5 to 2.5	Pass			
	50	3.85	-6.423	-0.0091	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-8.340	-0.0117	-2.5 to 2.5	Pass
					3.85	-6.423	-0.0090	-2.5 to 2.5	Pass
					4.43	-5.164	-0.0072	-2.5 to 2.5	Pass
				-30	3.85	-5.565	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-8.998	-0.0126	-2.5 to 2.5	Pass
				-10	3.85	-8.440	-0.0118	-2.5 to 2.5	Pass
				0	3.85	-4.349	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-2.904	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-5.708	-0.0080	-2.5 to 2.5	Pass
				40	3.85	-2.160	-0.0030	-2.5 to 2.5	Pass
50				3.85	-4.864	-0.0068	-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	-5.507	-0.0079	-2.5 to 2.5	Pass
					3.85	-4.563	-0.0065	-2.5 to 2.5	Pass
					4.43	-6.266	-0.0089	-2.5 to 2.5	Pass
				-30	3.85	-5.422	-0.0077	-2.5 to 2.5	Pass
				-20	3.85	-4.506	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-6.366	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-4.592	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-5.751	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-5.121	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-8.211	-0.0117	-2.5 to 2.5	Pass
				50	3.85	-7.639	-0.0109	-2.5 to 2.5	Pass
				707.5	25	0	20	3.27	-7.224
	3.85	-8.211	-0.0116					-2.5 to 2.5	Pass
	4.43	-8.841	-0.0125					-2.5 to 2.5	Pass
	-30	3.85	-7.052				-0.0100	-2.5 to 2.5	Pass
	-20	3.85	-1.688				-0.0024	-2.5 to 2.5	Pass
	-10	3.85	-7.653				-0.0108	-2.5 to 2.5	Pass
	0	3.85	-6.194				-0.0088	-2.5 to 2.5	Pass
	10	3.85	-7.253				-0.0103	-2.5 to 2.5	Pass
	30	3.85	-3.605				-0.0051	-2.5 to 2.5	Pass
	40	3.85	-8.698				-0.0123	-2.5 to 2.5	Pass
	50	3.85	-3.448				-0.0049	-2.5 to 2.5	Pass

	713.5	25	0	20	3.27	-6.952	-0.0097	-2.5 to 2.5	Pass				
					3.85	-7.381	-0.0103	-2.5 to 2.5	Pass				
					4.43	-6.638	-0.0093	-2.5 to 2.5	Pass				
								-30	3.85	-2.232	-0.0031	-2.5 to 2.5	Pass
								-20	3.85	-6.351	-0.0089	-2.5 to 2.5	Pass
								-10	3.85	-6.723	-0.0094	-2.5 to 2.5	Pass
								0	3.85	-5.479	-0.0077	-2.5 to 2.5	Pass
								10	3.85	-6.723	-0.0094	-2.5 to 2.5	Pass
								30	3.85	-7.653	-0.0107	-2.5 to 2.5	Pass
								40	3.85	-6.852	-0.0096	-2.5 to 2.5	Pass
50	3.85	-10.057	-0.0141	-2.5 to 2.5	Pass								
16QAM	701.5	25	0	20	3.27	-4.892	-0.0070	-2.5 to 2.5	Pass				
					3.85	-4.792	-0.0068	-2.5 to 2.5	Pass				
					4.43	-4.892	-0.0070	-2.5 to 2.5	Pass				
								-30	3.85	-4.821	-0.0069	-2.5 to 2.5	Pass
								-20	3.85	-5.021	-0.0072	-2.5 to 2.5	Pass
								-10	3.85	-9.241	-0.0132	-2.5 to 2.5	Pass
								0	3.85	-7.410	-0.0106	-2.5 to 2.5	Pass
								10	3.85	-9.356	-0.0133	-2.5 to 2.5	Pass
								30	3.85	-3.963	-0.0056	-2.5 to 2.5	Pass
								40	3.85	-7.682	-0.0110	-2.5 to 2.5	Pass
	50	3.85	-8.097	-0.0115	-2.5 to 2.5	Pass							
	707.5	25	0	20	3.27	-4.520	-0.0064	-2.5 to 2.5	Pass				
					3.85	-4.392	-0.0062	-2.5 to 2.5	Pass				
					4.43	-5.436	-0.0077	-2.5 to 2.5	Pass				
								-30	3.85	-4.864	-0.0069	-2.5 to 2.5	Pass
								-20	3.85	-2.990	-0.0042	-2.5 to 2.5	Pass
								-10	3.85	-6.294	-0.0089	-2.5 to 2.5	Pass
								0	3.85	-8.340	-0.0118	-2.5 to 2.5	Pass
								10	3.85	-8.340	-0.0118	-2.5 to 2.5	Pass
								30	3.85	-9.813	-0.0139	-2.5 to 2.5	Pass
								40	3.85	-3.576	-0.0051	-2.5 to 2.5	Pass
	50	3.85	-6.166	-0.0087	-2.5 to 2.5	Pass							
	713.5	25	0	20	3.27	-5.593	-0.0078	-2.5 to 2.5	Pass				
					3.85	-7.195	-0.0101	-2.5 to 2.5	Pass				
					4.43	-8.097	-0.0113	-2.5 to 2.5	Pass				
								-30	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
								-20	3.85	-5.450	-0.0076	-2.5 to 2.5	Pass
								-10	3.85	-5.379	-0.0075	-2.5 to 2.5	Pass
								0	3.85	-8.869	-0.0124	-2.5 to 2.5	Pass
								10	3.85	-6.437	-0.0090	-2.5 to 2.5	Pass
30								3.85	-4.320	-0.0061	-2.5 to 2.5	Pass	
40								3.85	-7.553	-0.0106	-2.5 to 2.5	Pass	
50	3.85	-7.725	-0.0108	-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	-3.862	-0.0055	-2.5 to 2.5	Pass
							3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
							4.43	-4.177	-0.0059	-2.5 to 2.5	Pass



				-30	3.85	-2.918	-0.0041	-2.5 to 2.5	Pass			
				-20	3.85	-5.765	-0.0082	-2.5 to 2.5	Pass			
				-10	3.85	-6.080	-0.0086	-2.5 to 2.5	Pass			
				0	3.85	-6.065	-0.0086	-2.5 to 2.5	Pass			
				10	3.85	-8.726	-0.0124	-2.5 to 2.5	Pass			
				30	3.85	-4.377	-0.0062	-2.5 to 2.5	Pass			
				40	3.85	-5.293	-0.0075	-2.5 to 2.5	Pass			
				50	3.85	-8.211	-0.0117	-2.5 to 2.5	Pass			
				20	3.27	-4.964	-0.0070	-2.5 to 2.5	Pass			
					3.85	-7.296	-0.0103	-2.5 to 2.5	Pass			
	4.43	-8.783	-0.0124		-2.5 to 2.5	Pass						
	707.5	50	0	-30	3.85	-6.094	-0.0086	-2.5 to 2.5	Pass			
				-20	3.85	-3.448	-0.0049	-2.5 to 2.5	Pass			
				-10	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass			
				0	3.85	-8.826	-0.0125	-2.5 to 2.5	Pass			
				10	3.85	-4.106	-0.0058	-2.5 to 2.5	Pass			
				30	3.85	-4.592	-0.0065	-2.5 to 2.5	Pass			
				40	3.85	-9.012	-0.0127	-2.5 to 2.5	Pass			
				50	3.85	-11.215	-0.0159	-2.5 to 2.5	Pass			
				20	3.27	-3.033	-0.0043	-2.5 to 2.5	Pass			
					3.85	-3.977	-0.0056	-2.5 to 2.5	Pass			
	4.43	-5.736	-0.0081		-2.5 to 2.5	Pass						
	711	50	0	-30	3.85	-4.706	-0.0066	-2.5 to 2.5	Pass			
				-20	3.85	-4.821	-0.0068	-2.5 to 2.5	Pass			
				-10	3.85	-5.207	-0.0073	-2.5 to 2.5	Pass			
				0	3.85	-2.661	-0.0037	-2.5 to 2.5	Pass			
				10	3.85	-8.354	-0.0117	-2.5 to 2.5	Pass			
				30	3.85	-4.134	-0.0058	-2.5 to 2.5	Pass			
				40	3.85	-5.507	-0.0077	-2.5 to 2.5	Pass			
				50	3.85	-8.168	-0.0115	-2.5 to 2.5	Pass			
16QAM				704	50	0	20	3.27	-5.093	-0.0072	-2.5 to 2.5	Pass
								3.85	-5.751	-0.0082	-2.5 to 2.5	Pass
	4.43	-6.151	-0.0087					-2.5 to 2.5	Pass			
	-30	3.85	-7.467				-0.0106	-2.5 to 2.5	Pass			
	-20	3.85	-8.011				-0.0114	-2.5 to 2.5	Pass			
	-10	3.85	-3.762				-0.0053	-2.5 to 2.5	Pass			
	0	3.85	-6.065				-0.0086	-2.5 to 2.5	Pass			
	10	3.85	-7.453				-0.0106	-2.5 to 2.5	Pass			
	30	3.85	-9.956				-0.0141	-2.5 to 2.5	Pass			
	40	3.85	-2.418				-0.0034	-2.5 to 2.5	Pass			
	50	3.85	-4.921	-0.0070	-2.5 to 2.5	Pass						
	707.5	50	0	20	3.27	-1.674	-0.0024	-2.5 to 2.5	Pass			
					3.85	-4.706	-0.0067	-2.5 to 2.5	Pass			
					4.43	-3.719	-0.0053	-2.5 to 2.5	Pass			
				-30	3.85	-5.236	-0.0074	-2.5 to 2.5	Pass			
				-20	3.85	-6.223	-0.0088	-2.5 to 2.5	Pass			
				-10	3.85	-7.868	-0.0111	-2.5 to 2.5	Pass			
				0	3.85	-4.735	-0.0067	-2.5 to 2.5	Pass			
				10	3.85	-9.069	-0.0128	-2.5 to 2.5	Pass			
				30	3.85	-7.381	-0.0104	-2.5 to 2.5	Pass			
				40	3.85	-8.469	-0.0120	-2.5 to 2.5	Pass			
	50	3.85	-7.997	-0.0113	-2.5 to 2.5	Pass						
	711	50	0	20	3.27	-5.336	-0.0075	-2.5 to 2.5	Pass			
					3.85	-7.224	-0.0102	-2.5 to 2.5	Pass			
					4.43	-6.280	-0.0088	-2.5 to 2.5	Pass			
				-30	3.85	-3.533	-0.0050	-2.5 to 2.5	Pass			
				-20	3.85	-5.536	-0.0078	-2.5 to 2.5	Pass			

				-10	3.85	-6.237	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-7.668	-0.0108	-2.5 to 2.5	Pass
				10	3.85	-8.283	-0.0116	-2.5 to 2.5	Pass
				30	3.85	-8.311	-0.0117	-2.5 to 2.5	Pass
				40	3.85	-8.225	-0.0116	-2.5 to 2.5	Pass
				50	3.85	-6.223	-0.0088	-2.5 to 2.5	Pass

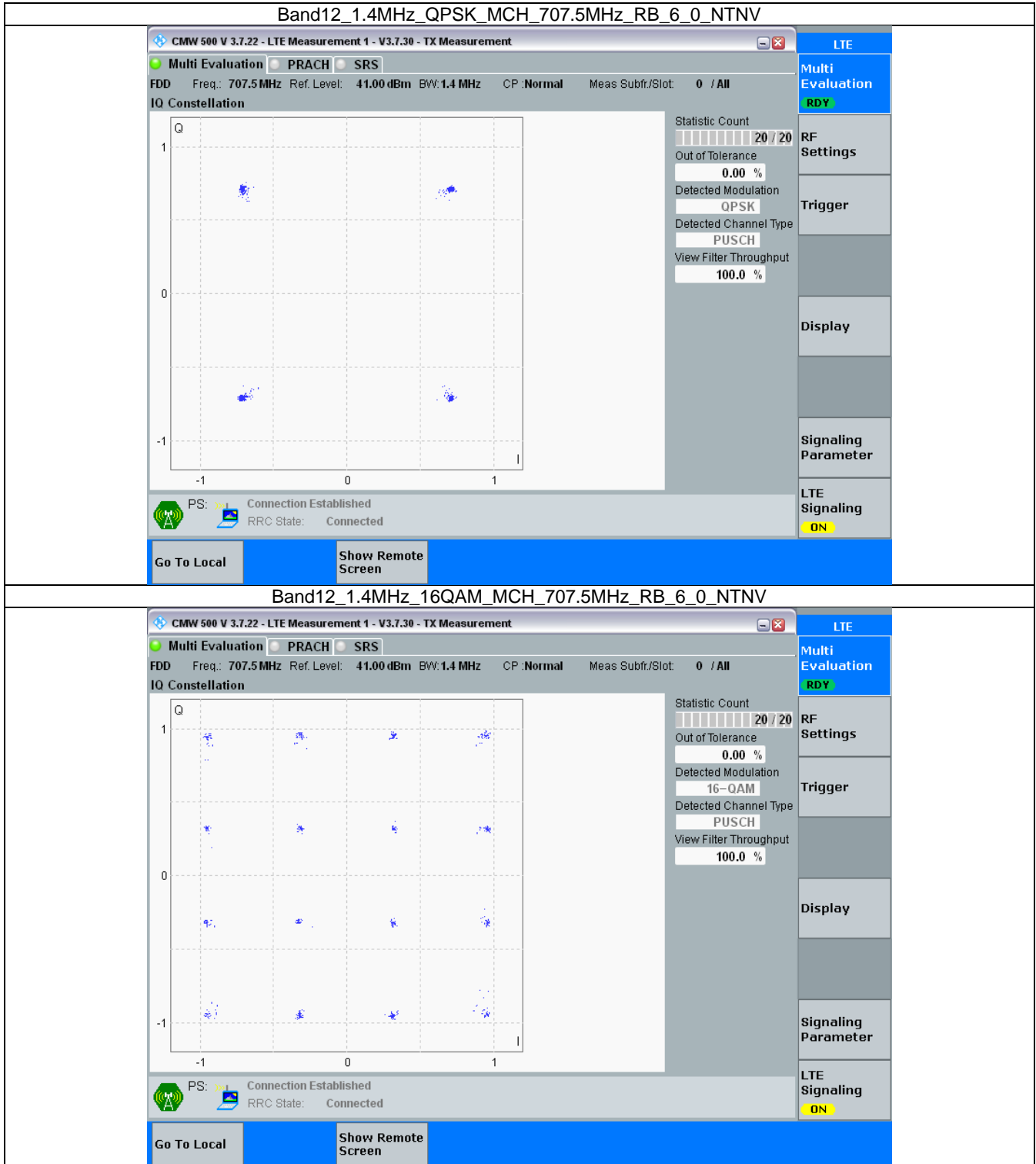
### 3. Modulation Characteristics

#### 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

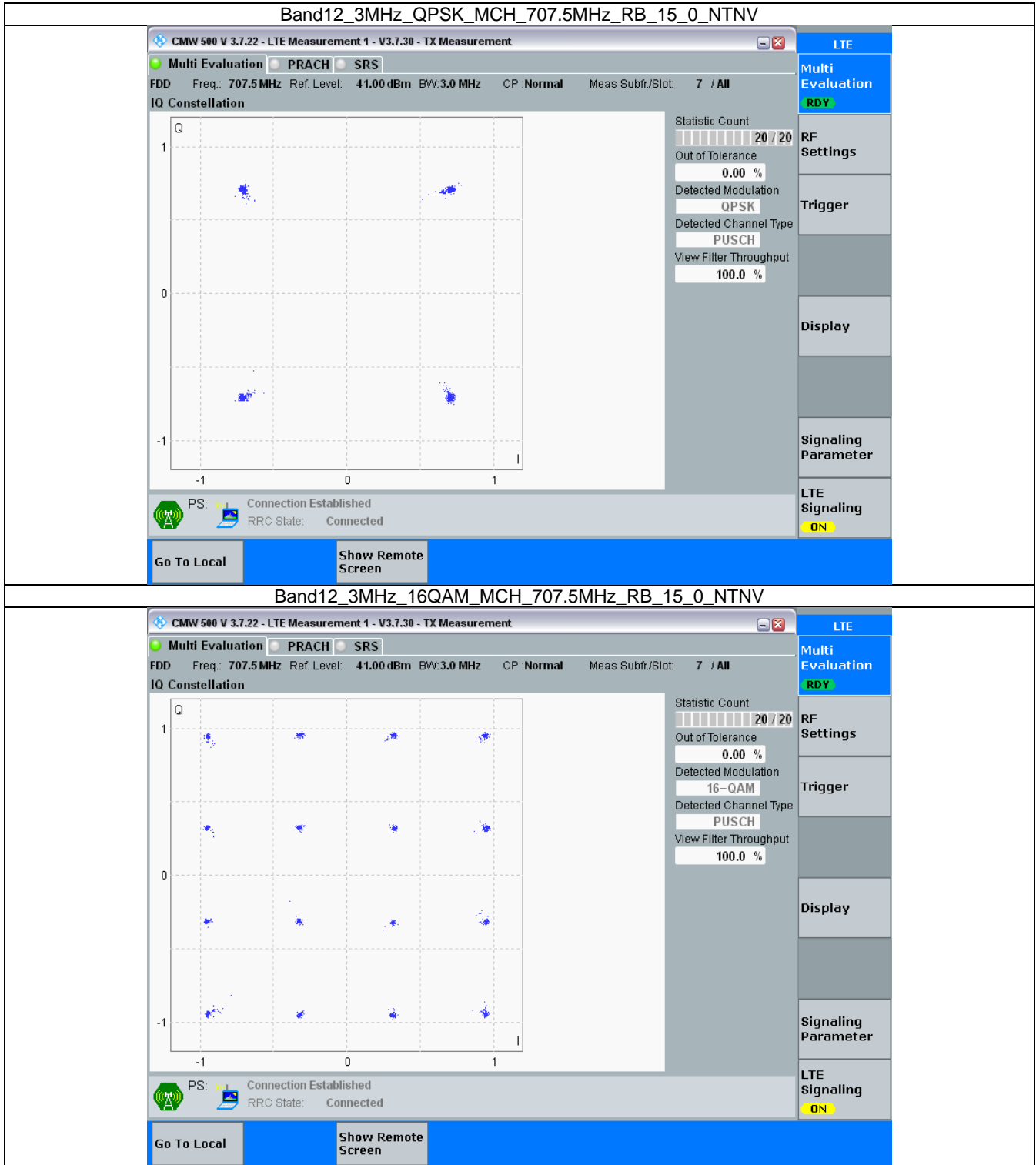


### 3.2 B12\_3MHz

#### 3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / 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

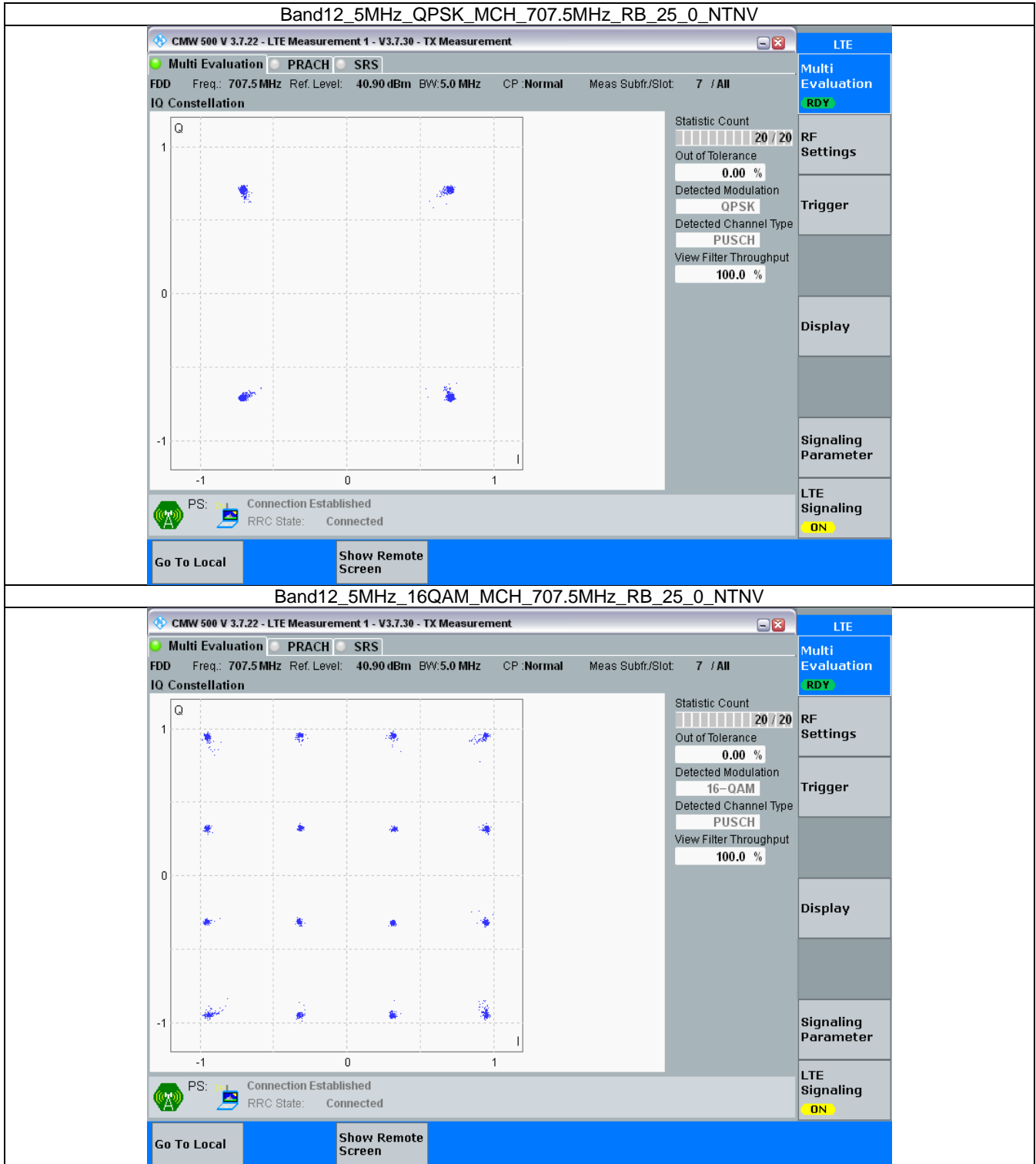


### 3.3 B12\_5MHz

#### 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



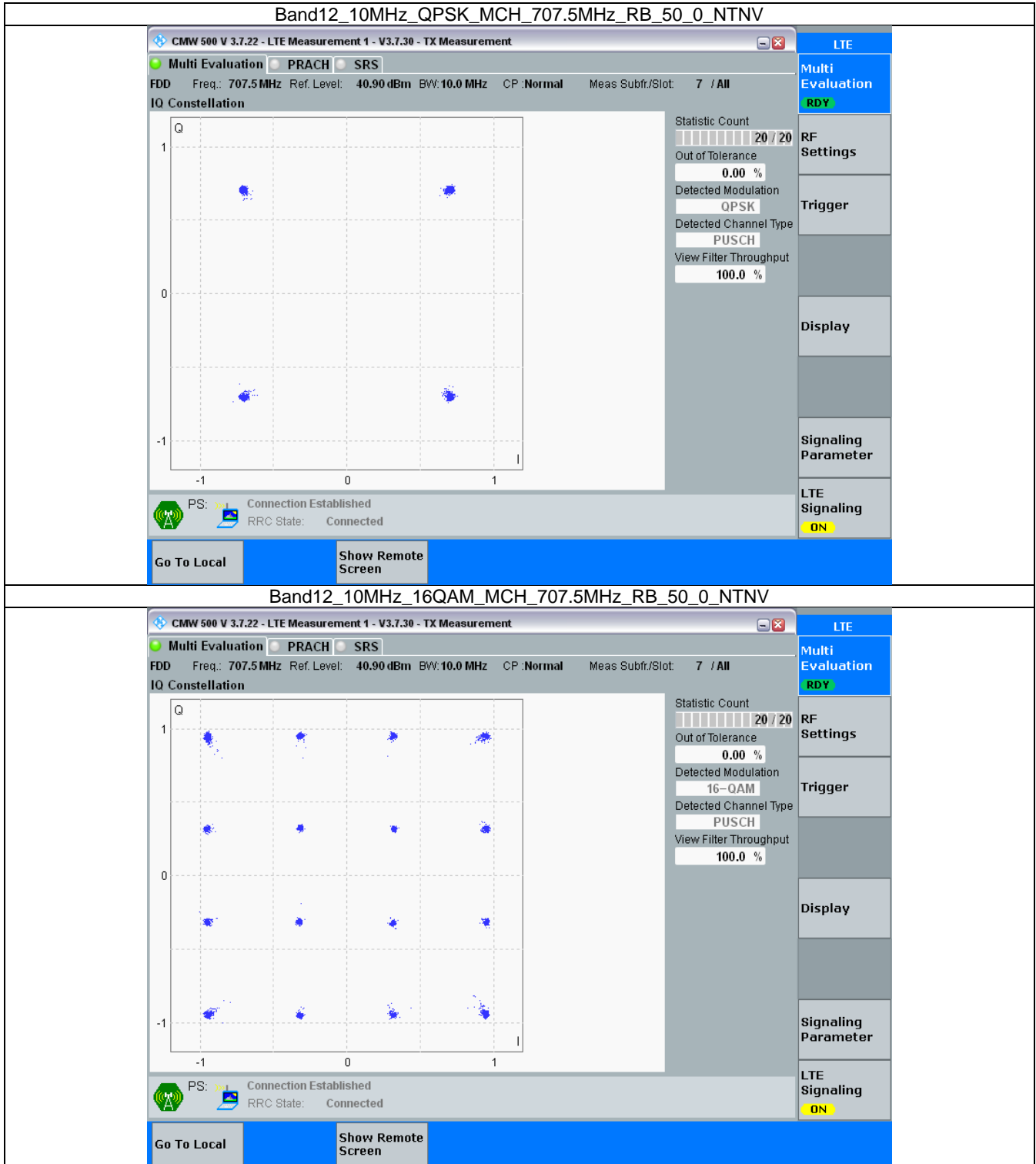
### 3.4 B12\_10MHz

#### 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



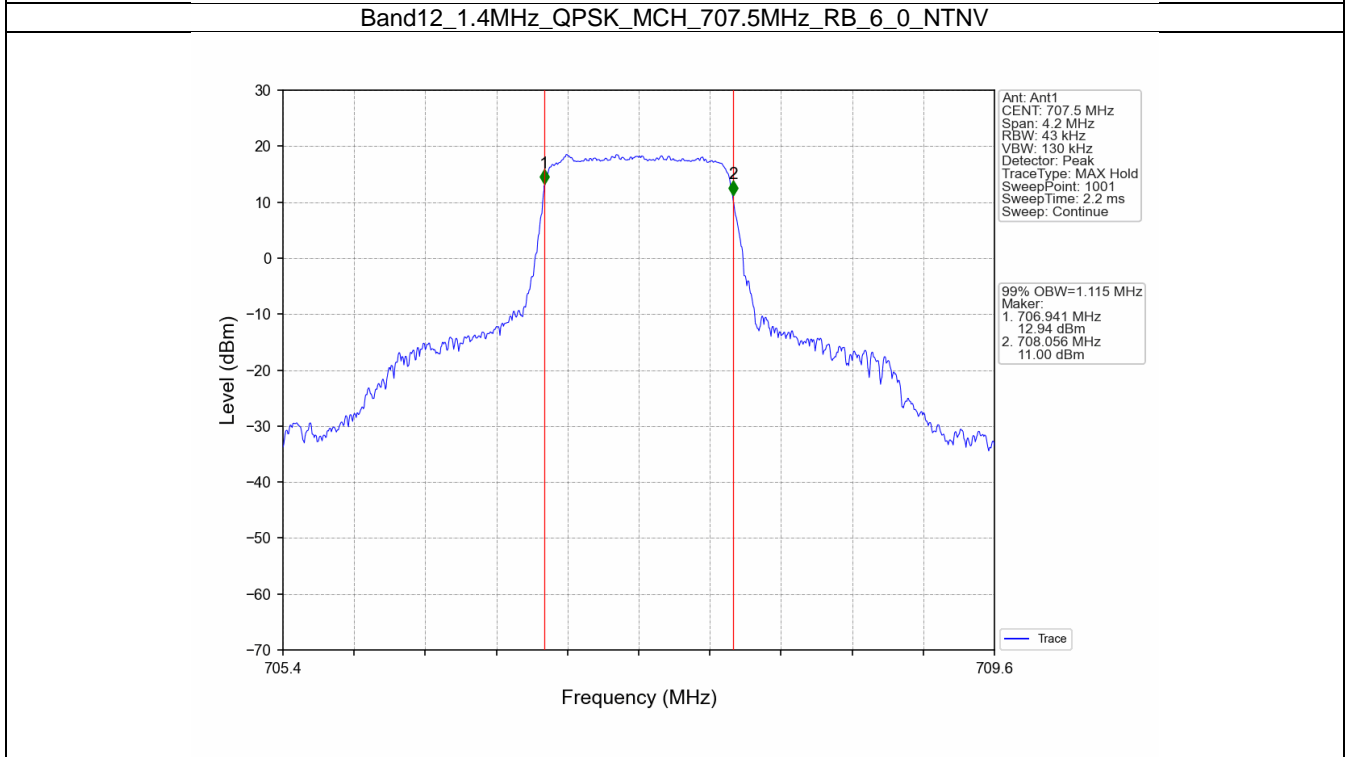
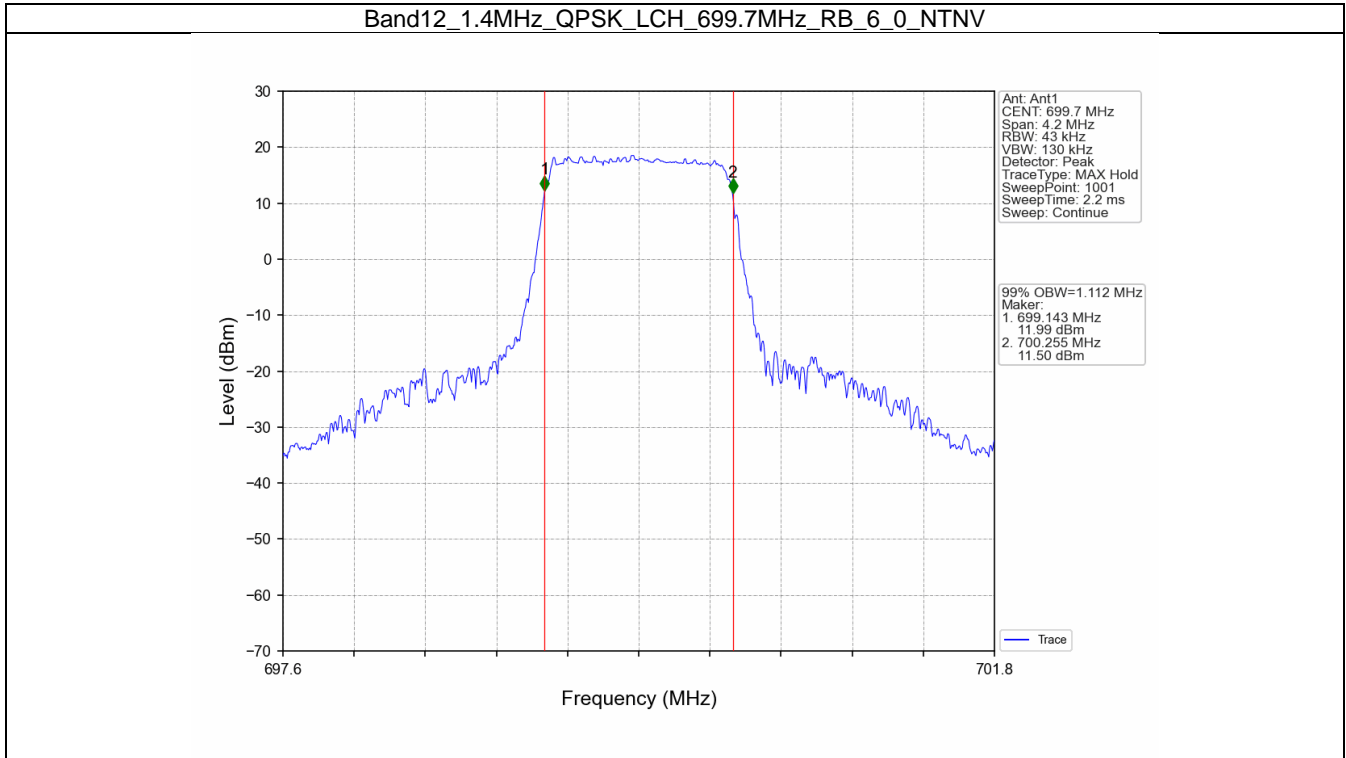
## 4. 99% & 26dB Bandwidth

### 4.1 Band12\_OBW

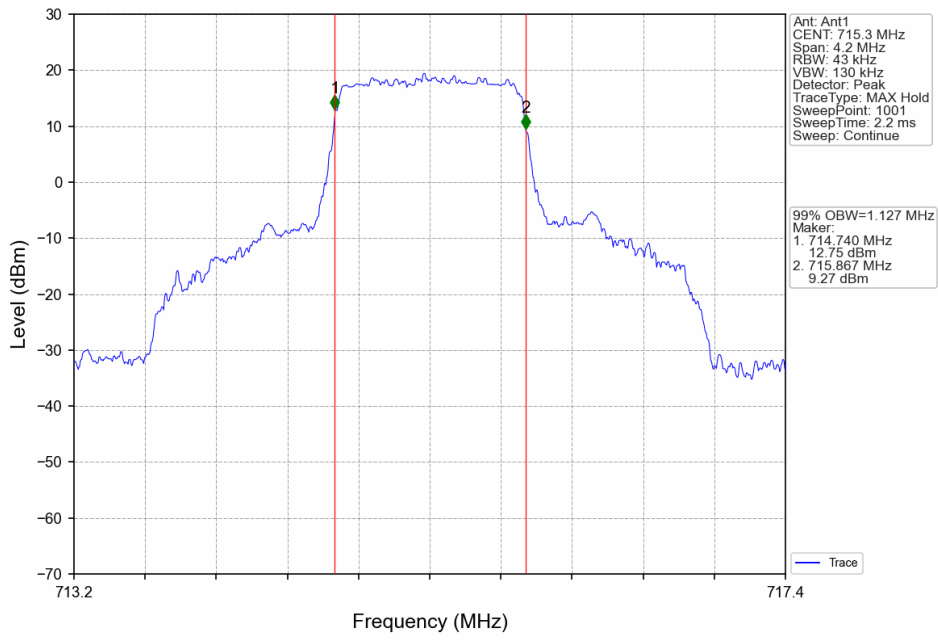
#### 4.1.1 Test Result

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	1.112	Pass
		707.5	6	0	1.115	Pass
		715.3	6	0	1.127	Pass
	16QAM	699.7	6	0	1.104	Pass
		707.5	6	0	1.112	Pass
		715.3	6	0	1.116	Pass
3	QPSK	700.5	15	0	2.727	Pass
		707.5	15	0	2.737	Pass
		714.5	15	0	2.731	Pass
	16QAM	700.5	15	0	2.721	Pass
		707.5	15	0	2.728	Pass
		714.5	15	0	2.723	Pass
5	QPSK	701.5	25	0	4.577	Pass
		707.5	25	0	4.557	Pass
		713.5	25	0	4.580	Pass
	16QAM	701.5	25	0	4.616	Pass
		707.5	25	0	4.592	Pass
		713.5	25	0	4.574	Pass
10	QPSK	704	50	0	9.096	Pass
		707.5	50	0	9.005	Pass
		711	50	0	9.150	Pass
	16QAM	704	50	0	9.083	Pass
		707.5	50	0	9.011	Pass
		711	50	0	9.120	Pass

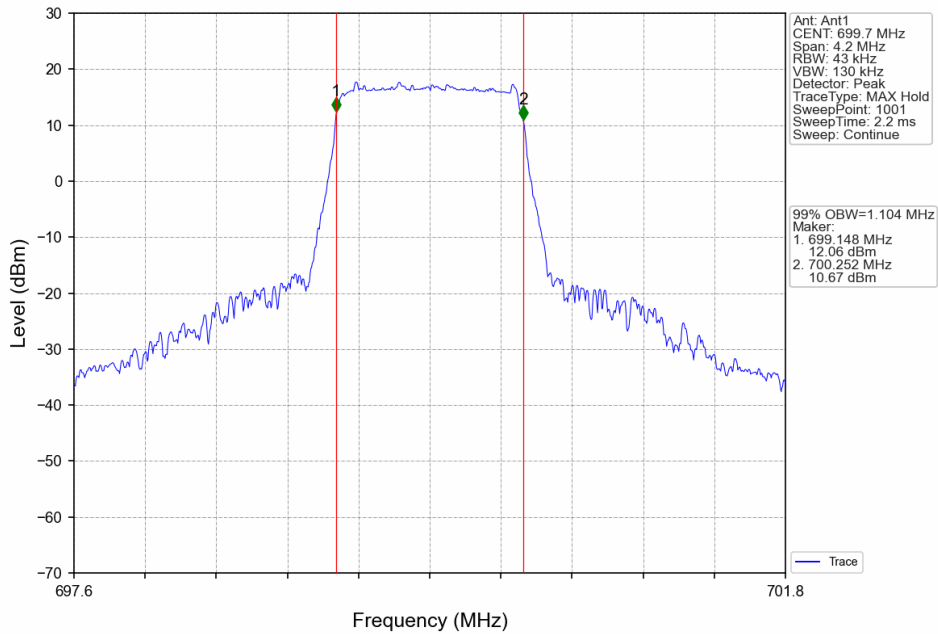
### 4.1.2 Test Graph



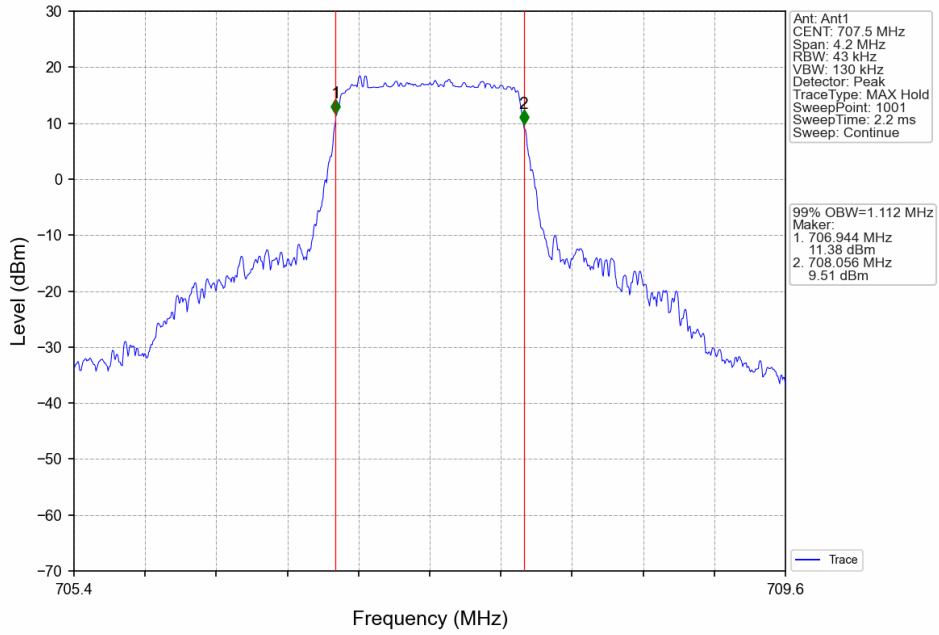
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



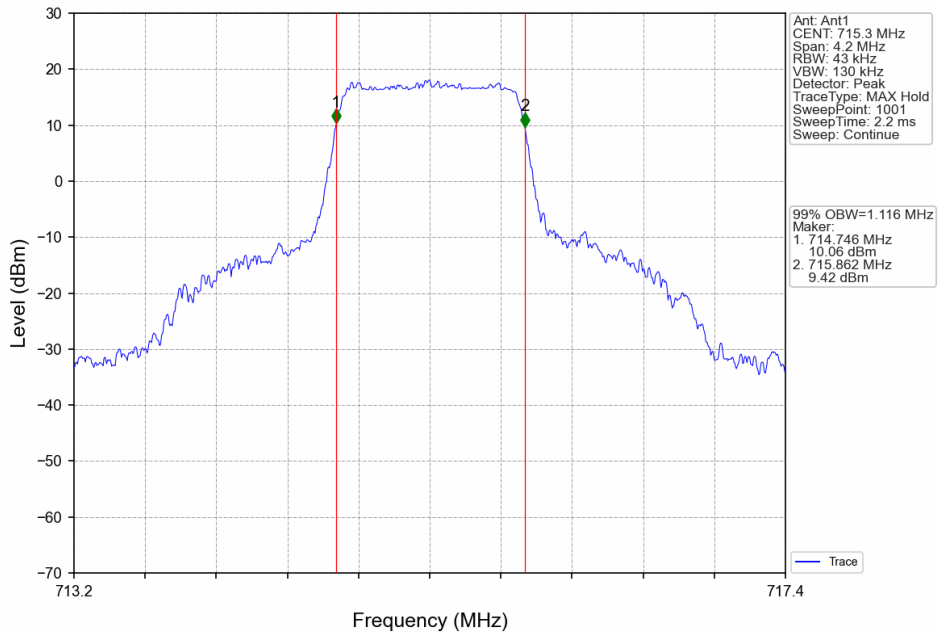
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



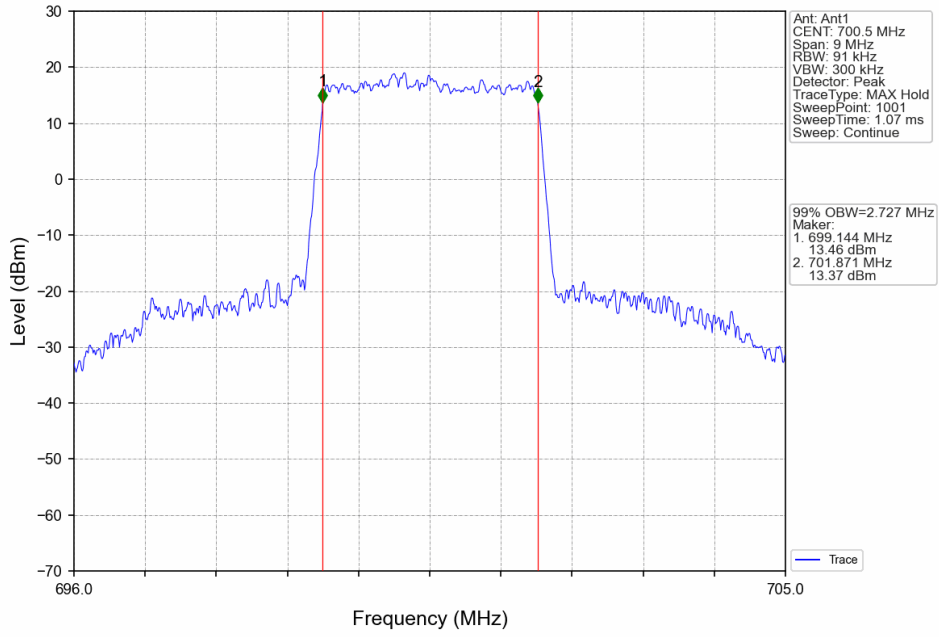
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



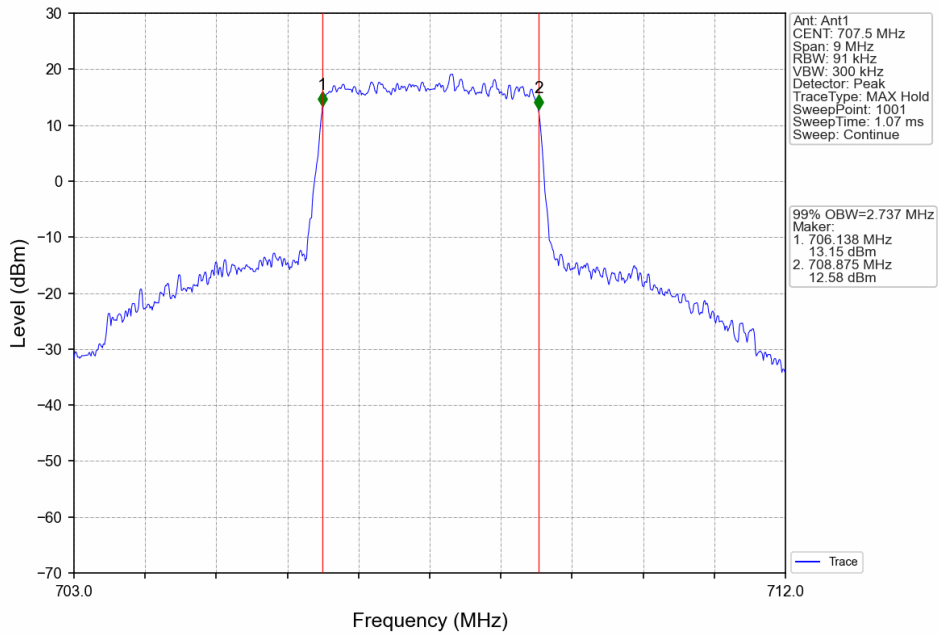
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



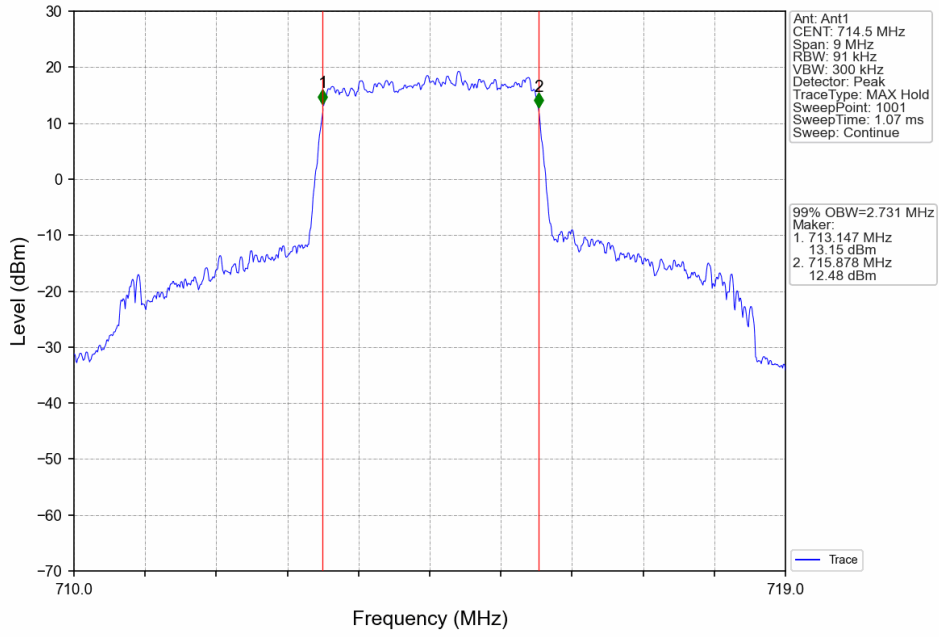
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



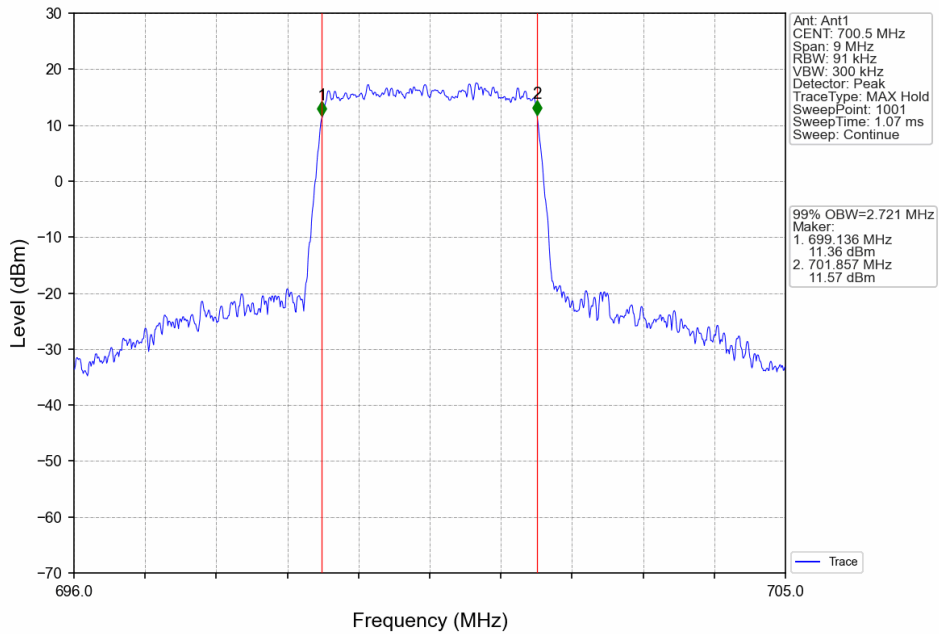
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



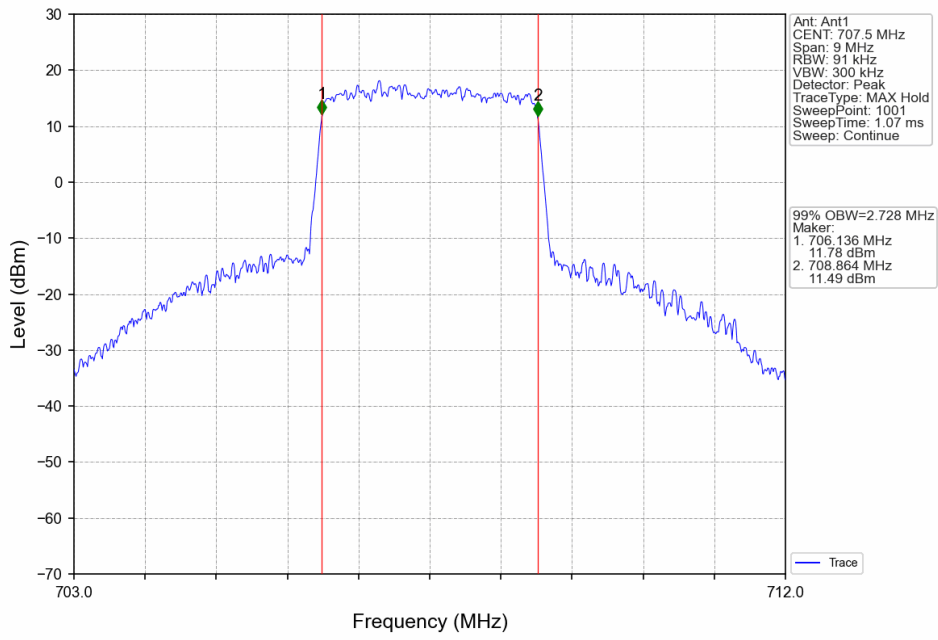
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



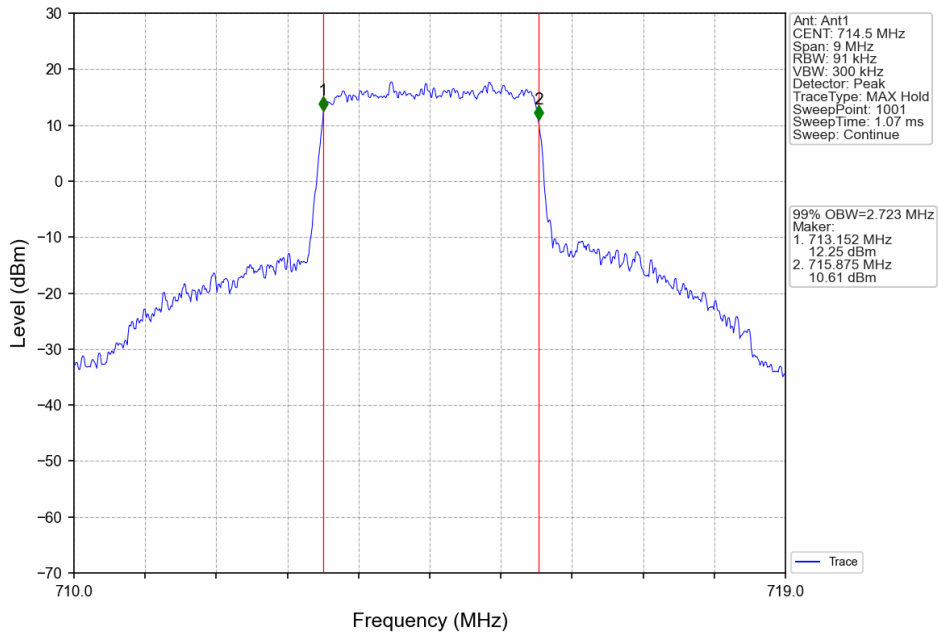
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV

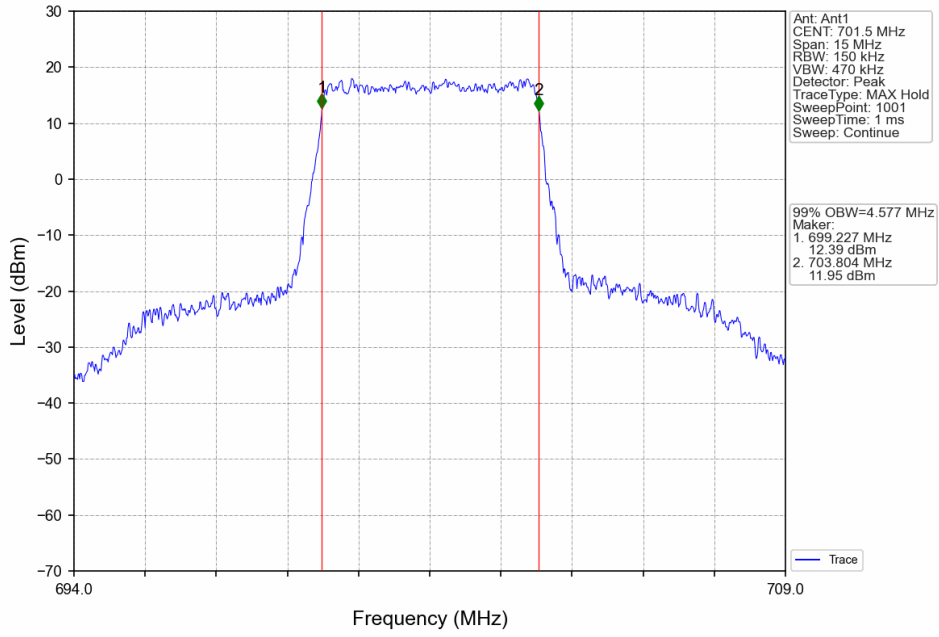


Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

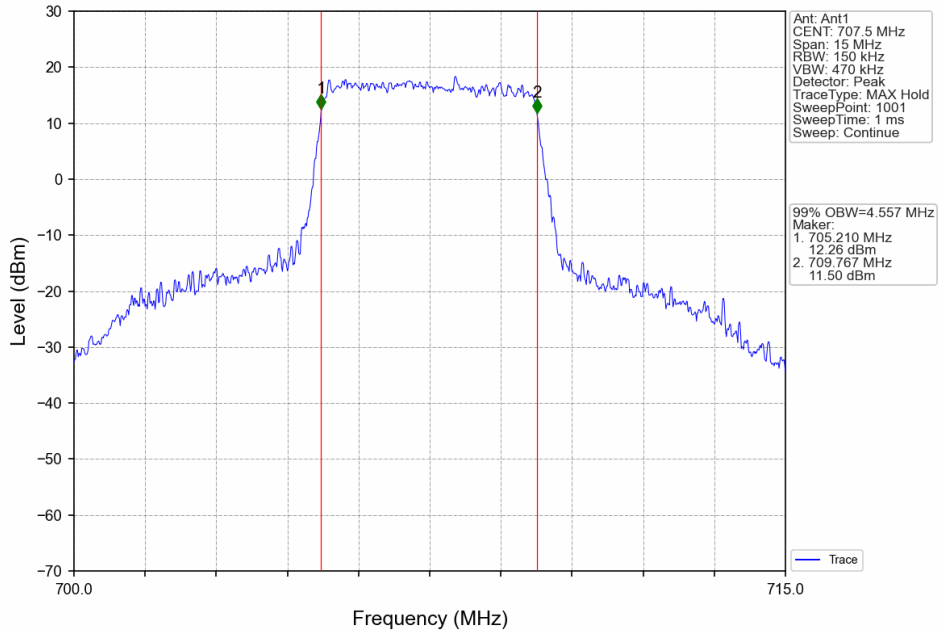




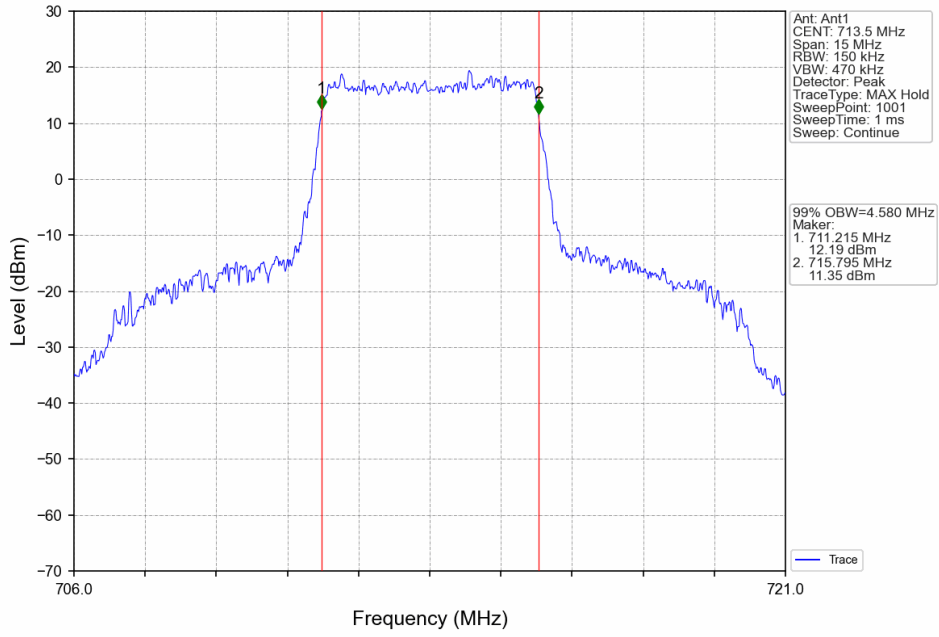
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



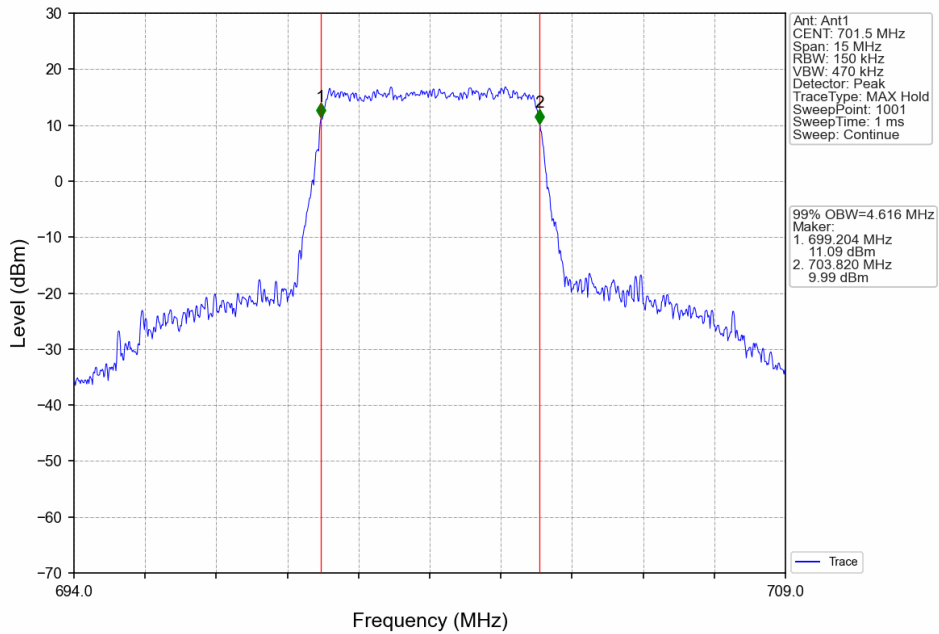
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



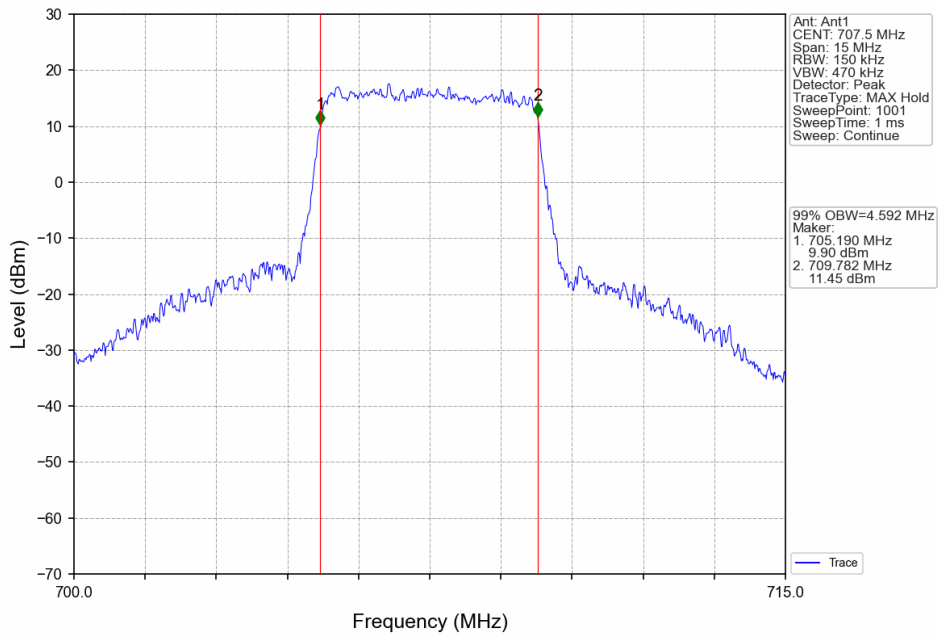
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



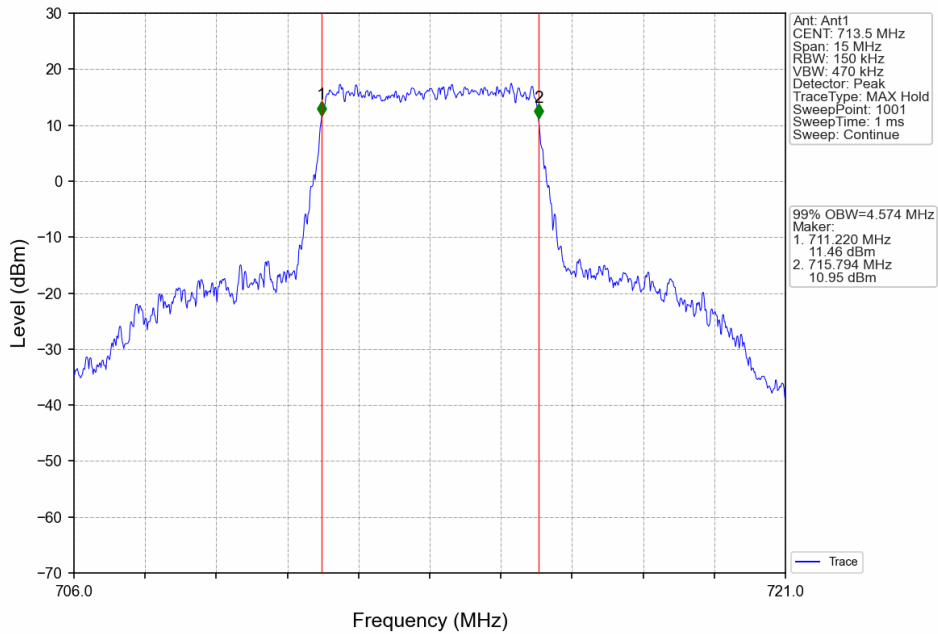
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



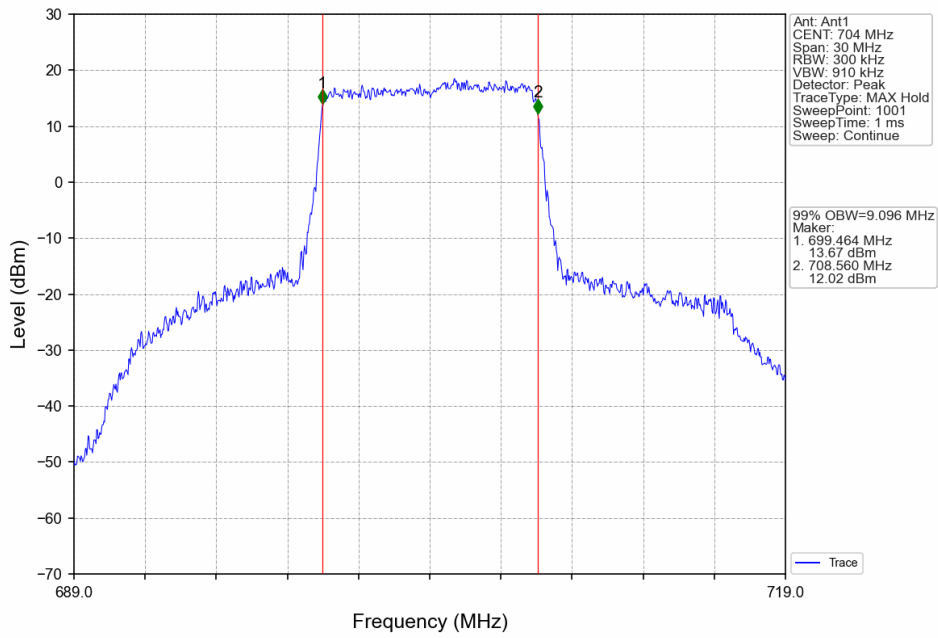
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



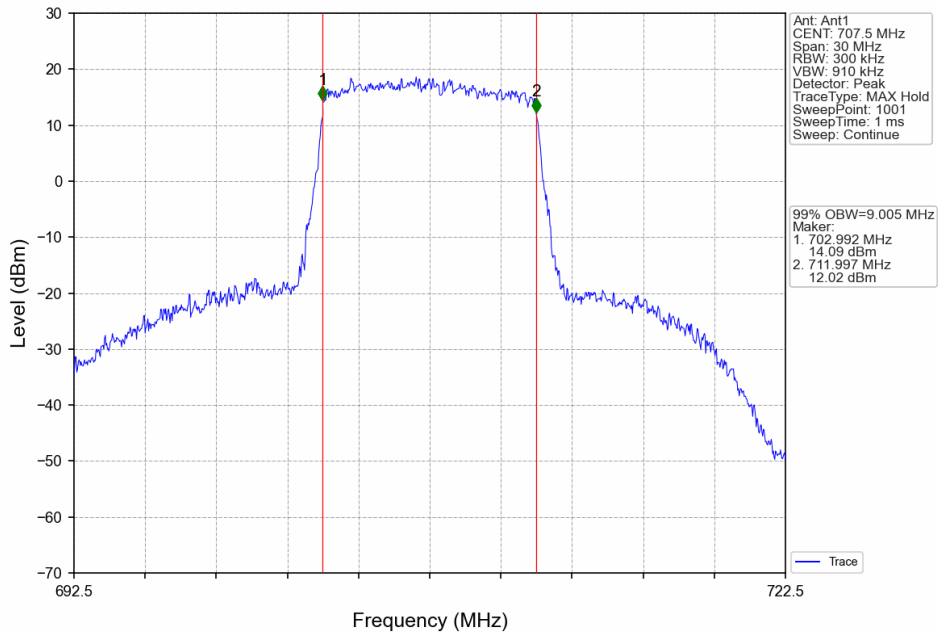
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



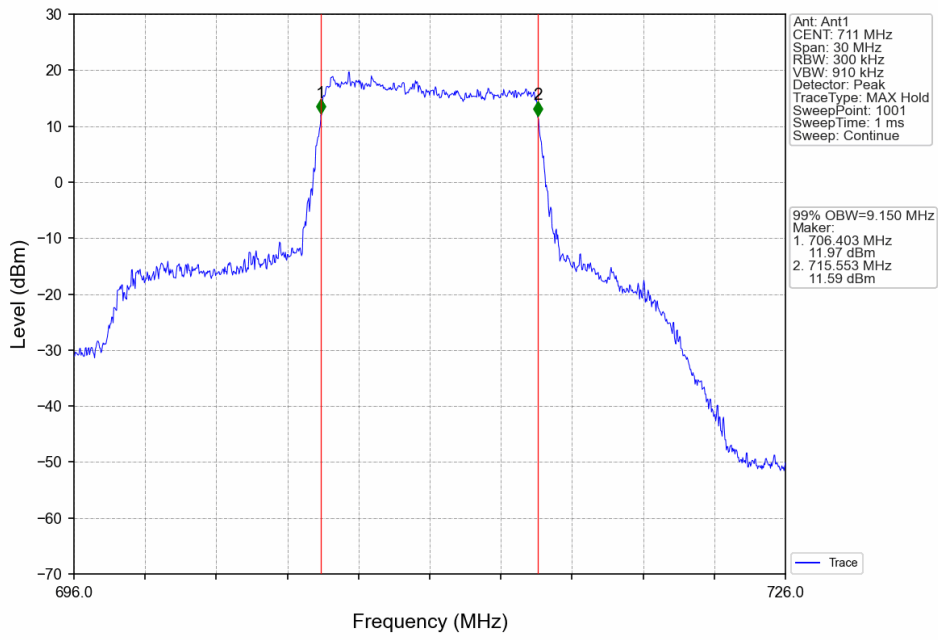
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



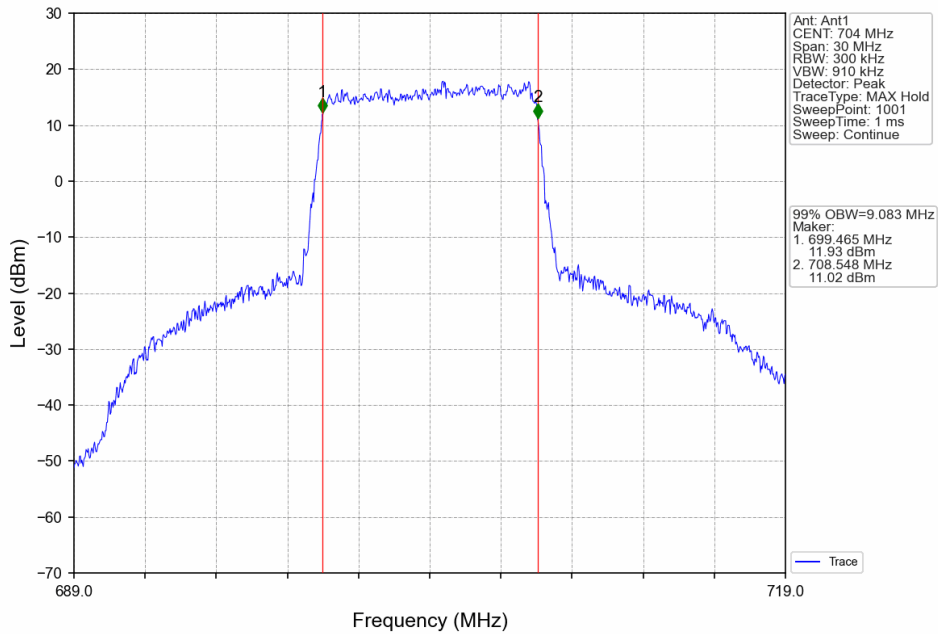
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



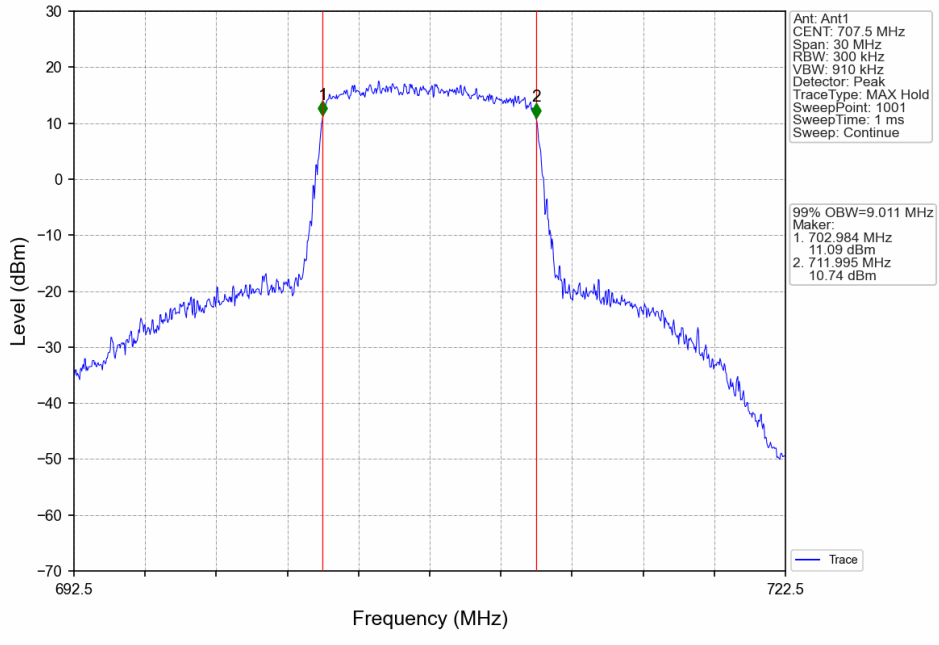
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



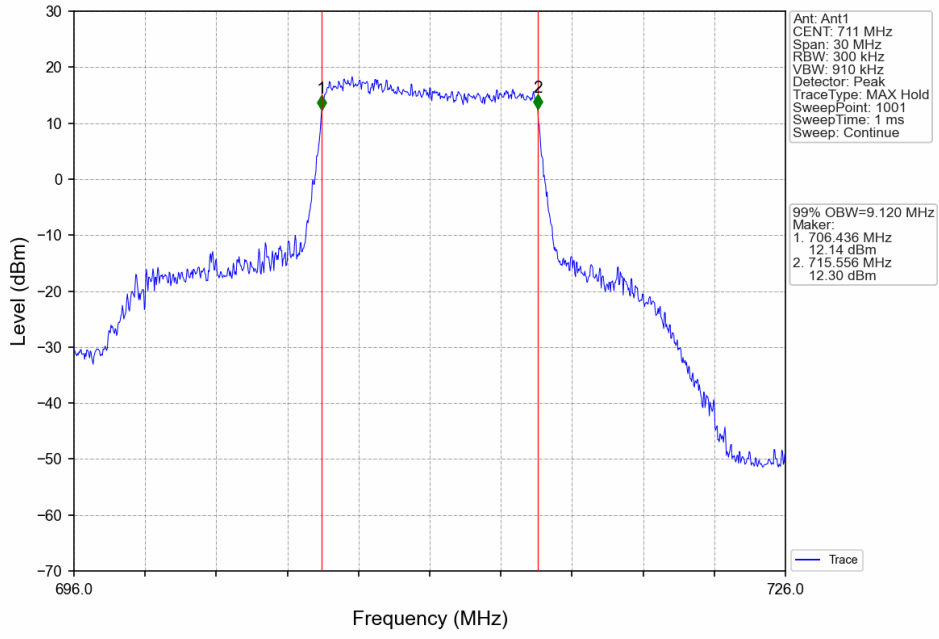
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV

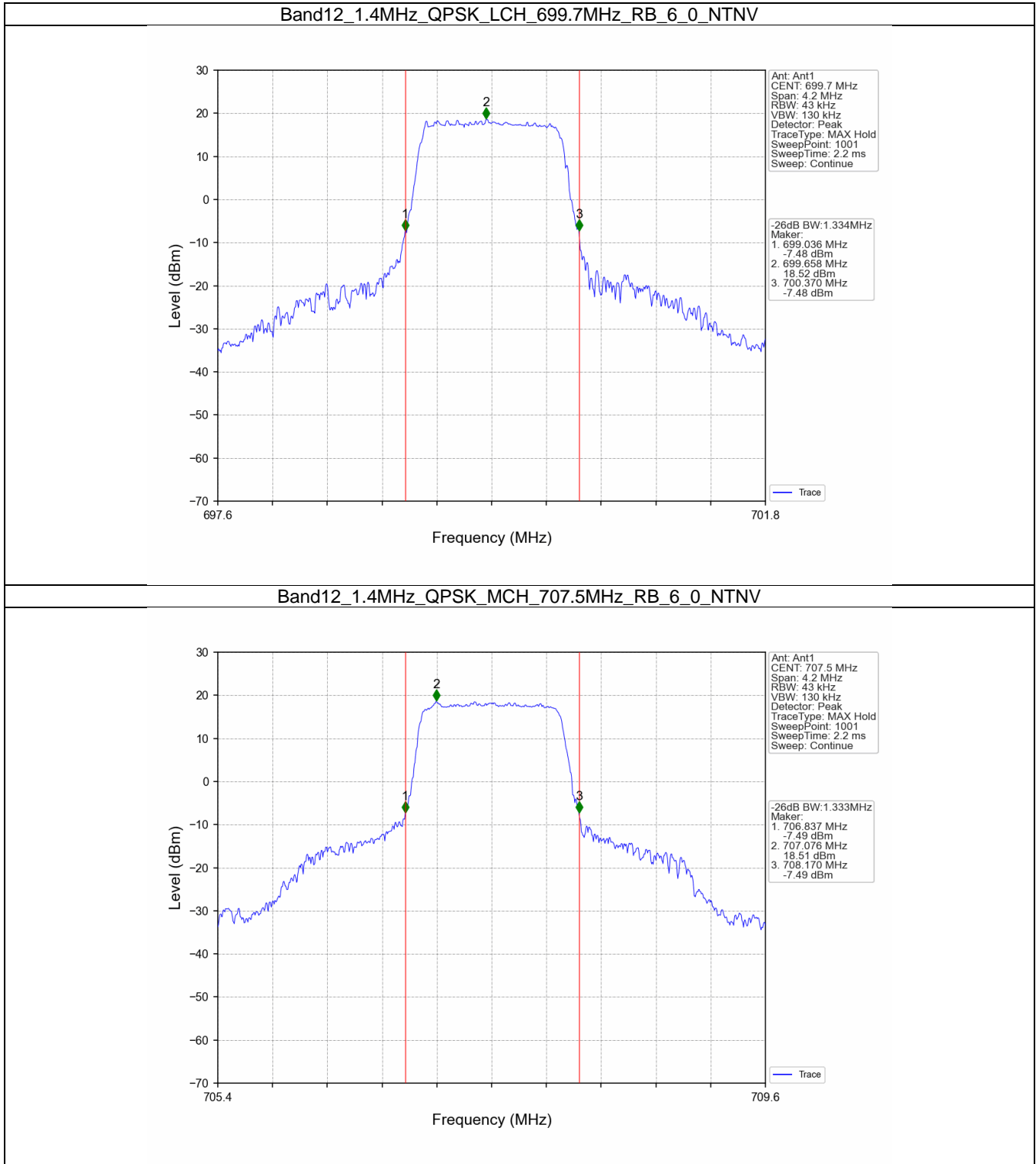


## 4.2 Band12\_XDB

### 4.2.1 Test Result

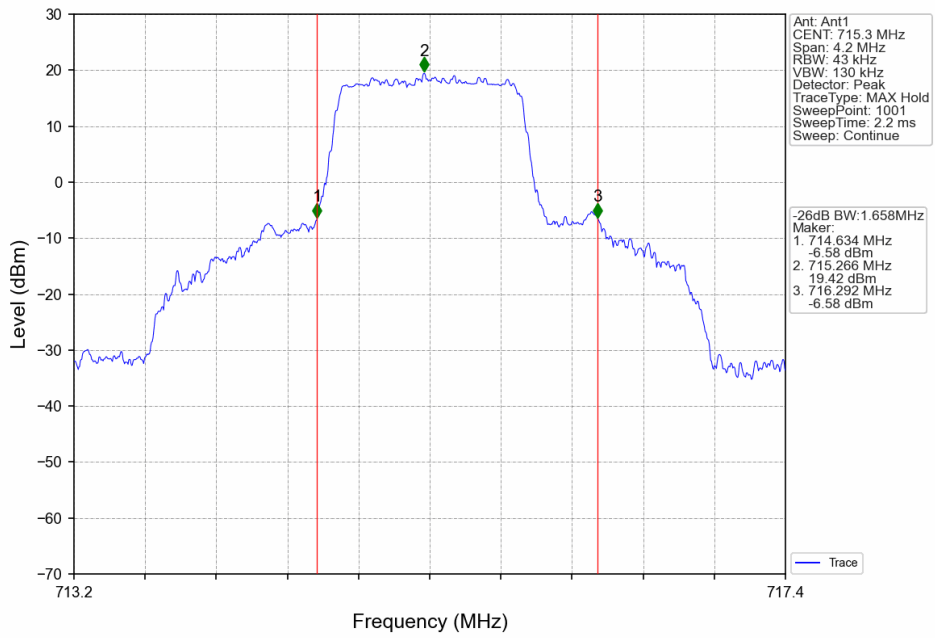
Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.334	Pass
		707.5	6	0	1.333	Pass
		715.3	6	0	1.658	Pass
	16QAM	699.7	6	0	1.303	Pass
		707.5	6	0	1.319	Pass
		715.3	6	0	1.353	Pass
3	QPSK	700.5	15	0	3.004	Pass
		707.5	15	0	3.010	Pass
		714.5	15	0	3.003	Pass
	16QAM	700.5	15	0	3.001	Pass
		707.5	15	0	2.996	Pass
		714.5	15	0	3.023	Pass
5	QPSK	701.5	25	0	5.310	Pass
		707.5	25	0	5.219	Pass
		713.5	25	0	5.253	Pass
	16QAM	701.5	25	0	5.354	Pass
		707.5	25	0	5.233	Pass
		713.5	25	0	5.323	Pass
10	QPSK	704	50	0	10.175	Pass
		707.5	50	0	10.153	Pass
		711	50	0	10.344	Pass
	16QAM	704	50	0	10.164	Pass
		707.5	50	0	10.088	Pass
		711	50	0	10.266	Pass

### 4.2.2 Test Graph

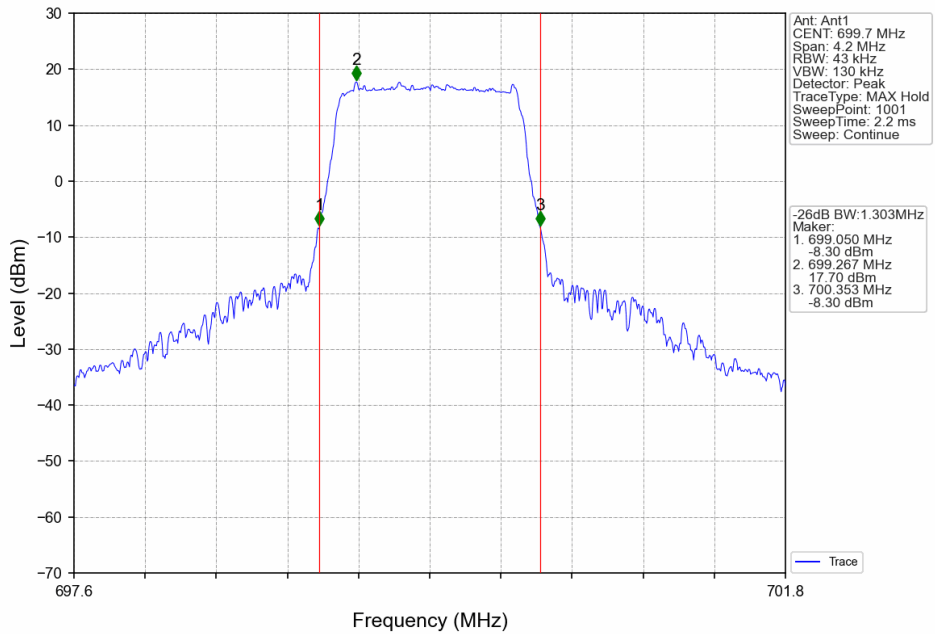




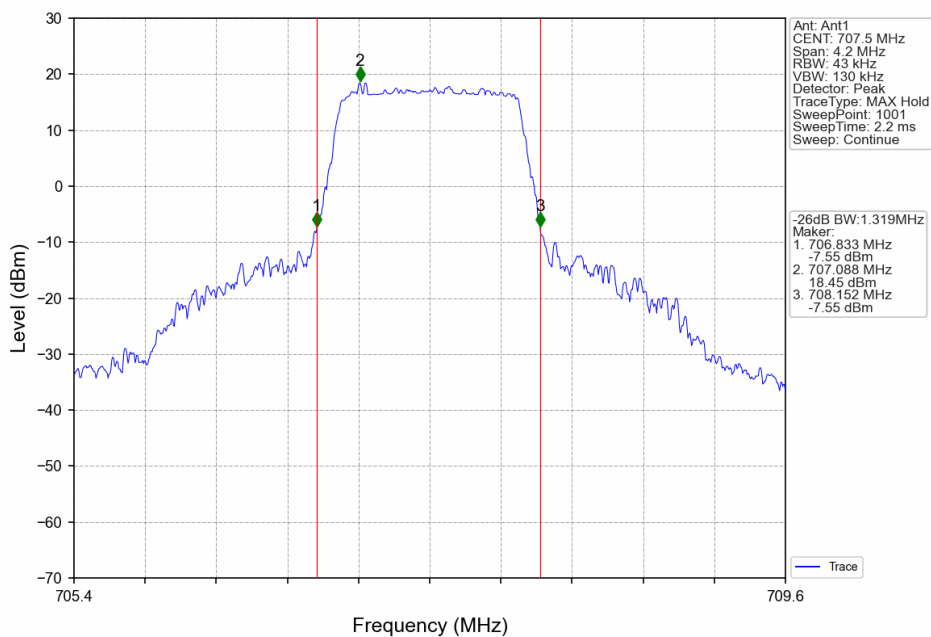
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



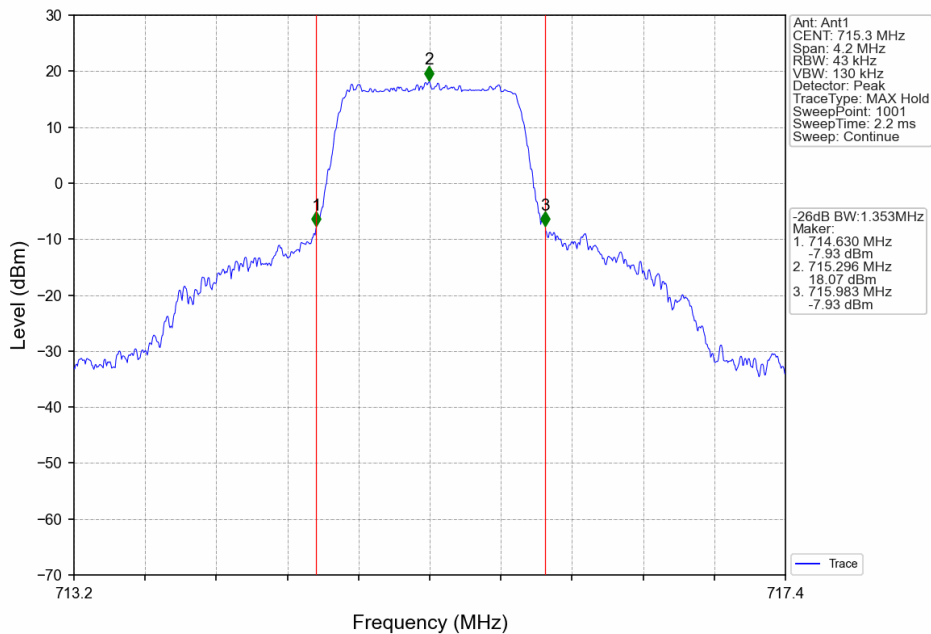
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



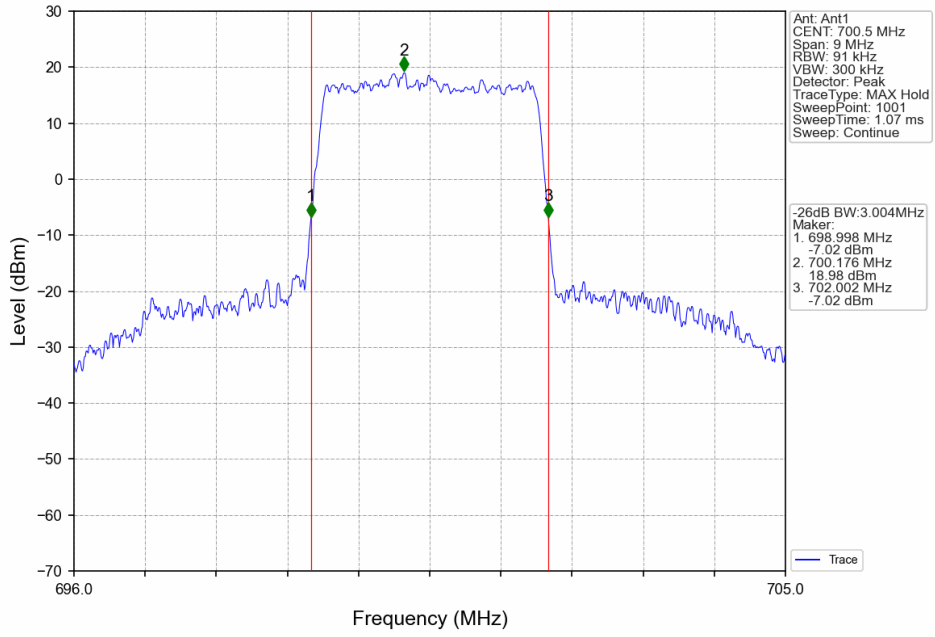
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



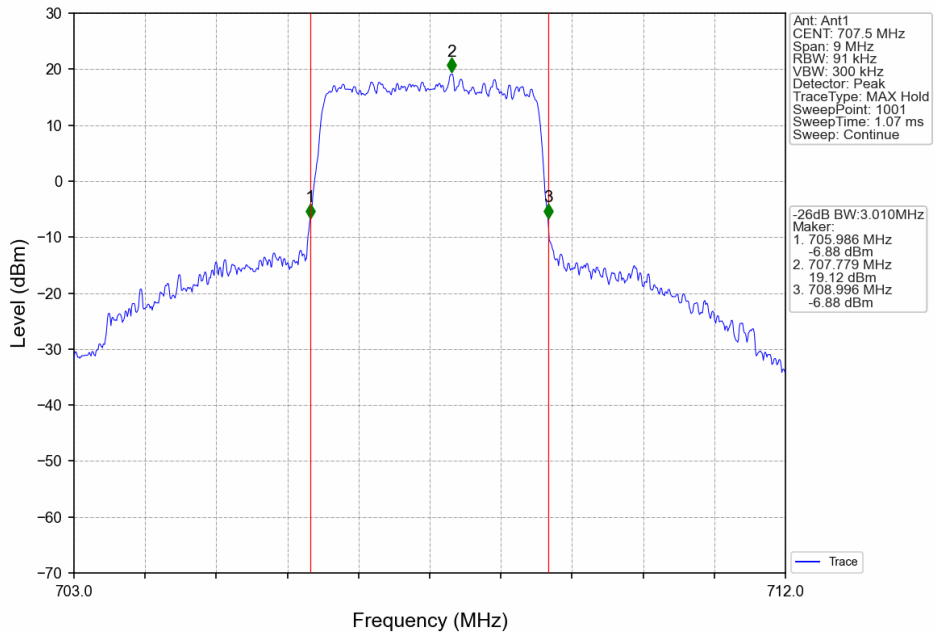
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



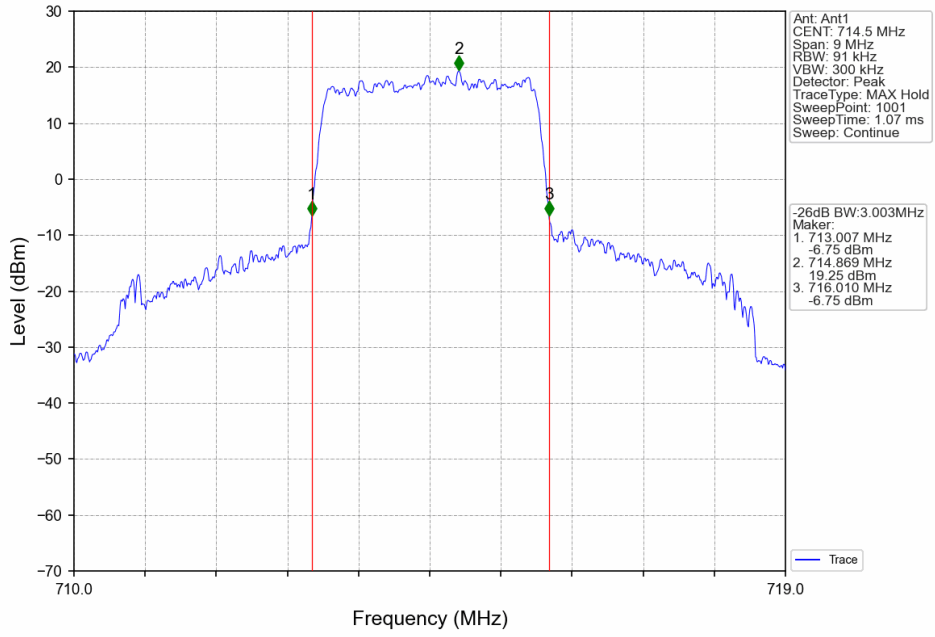
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



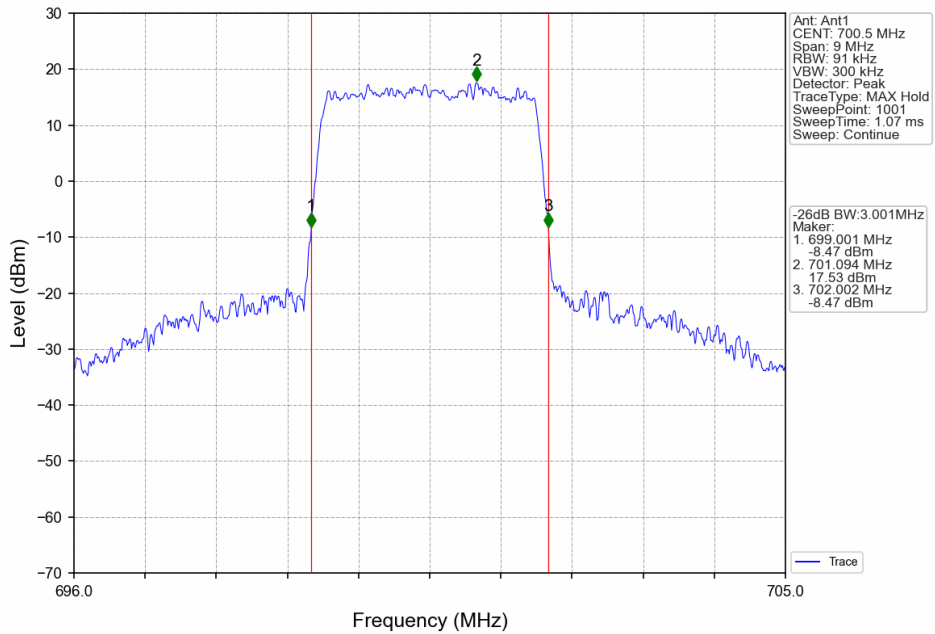
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



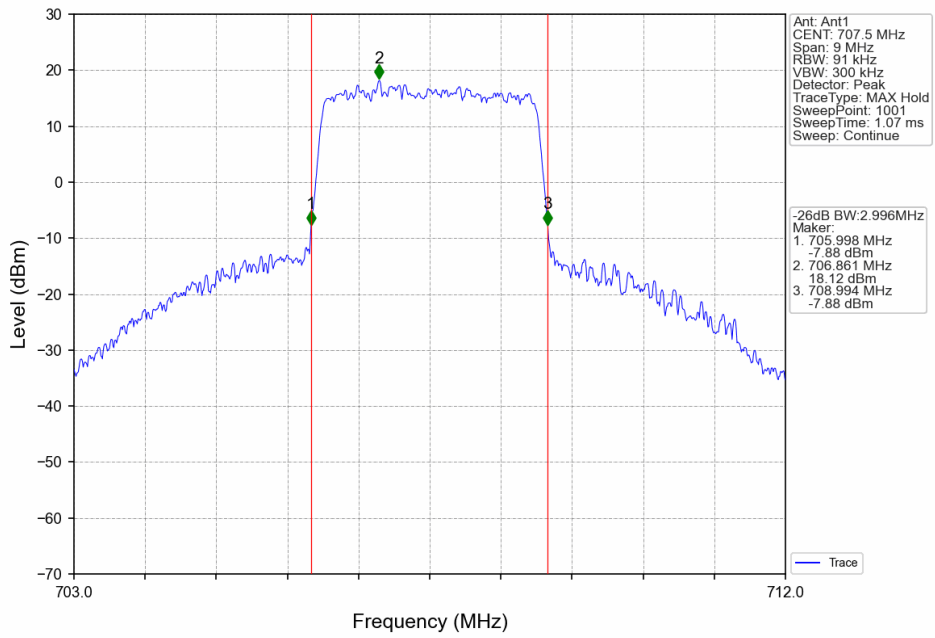
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



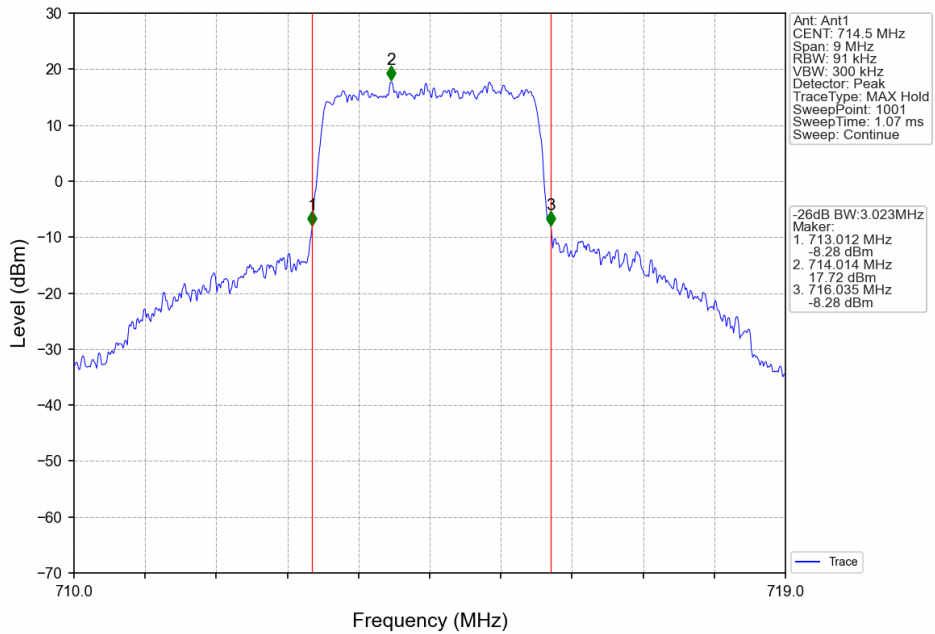
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



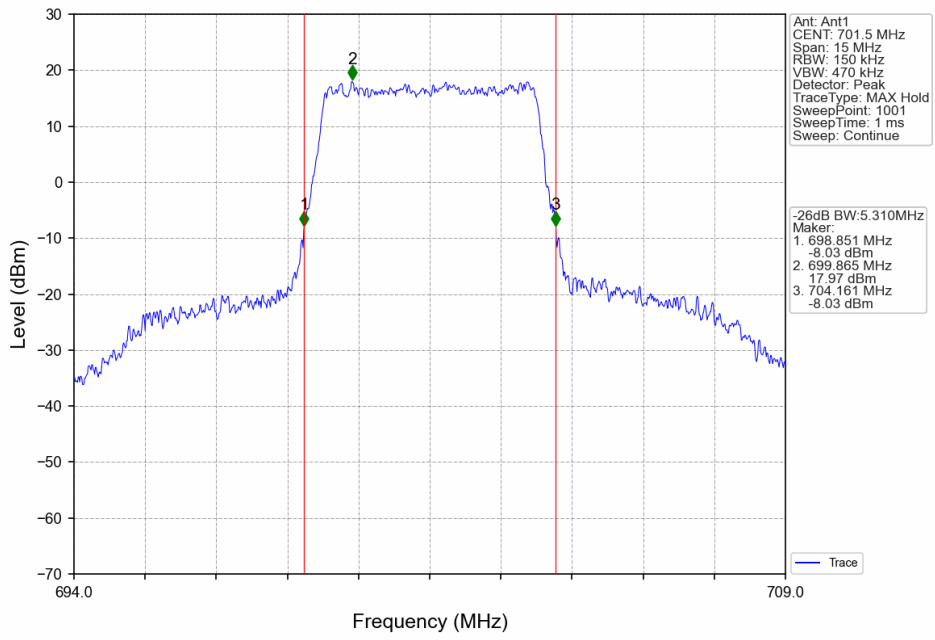
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



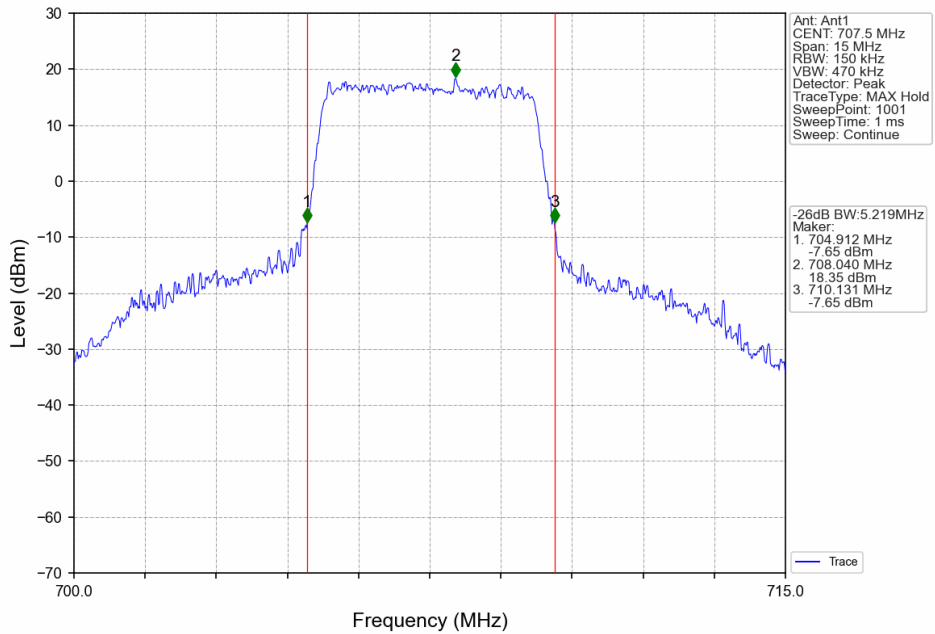
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



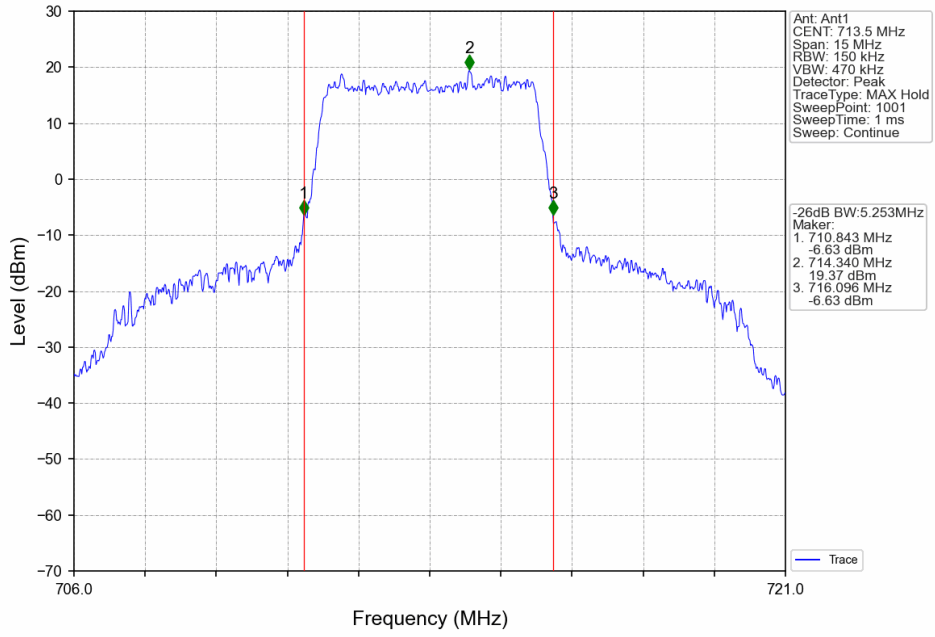
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



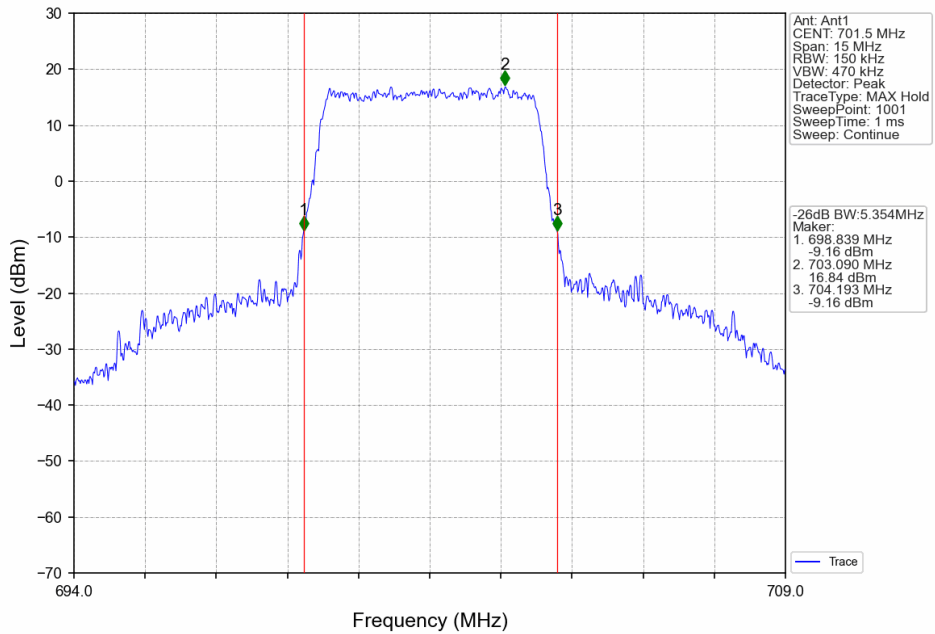
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



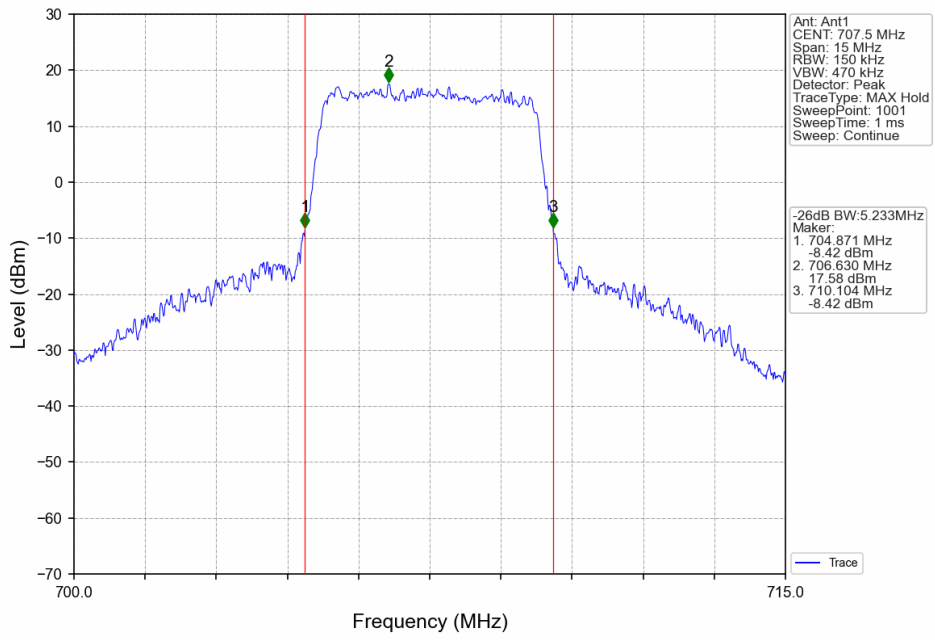
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



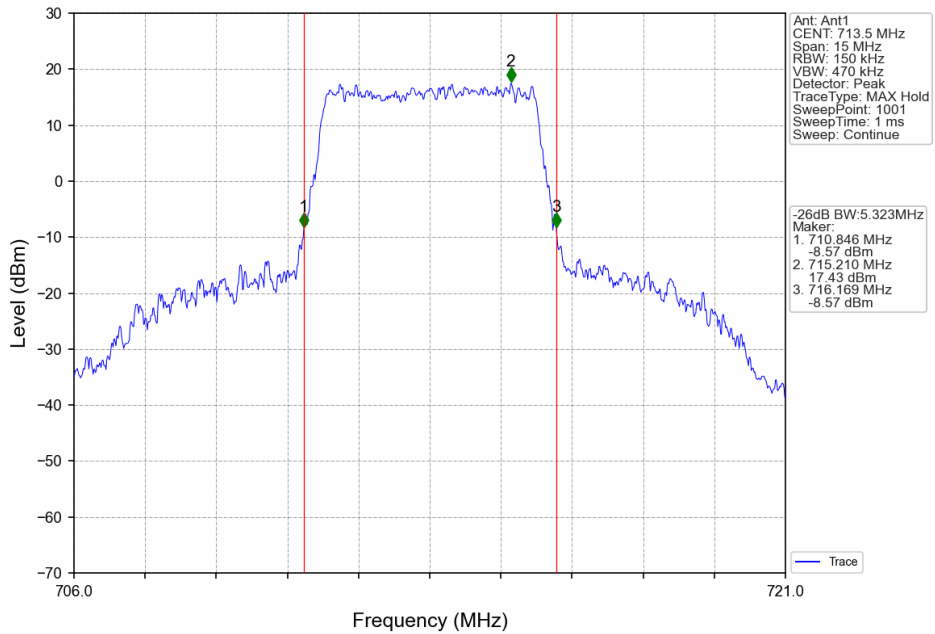
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV

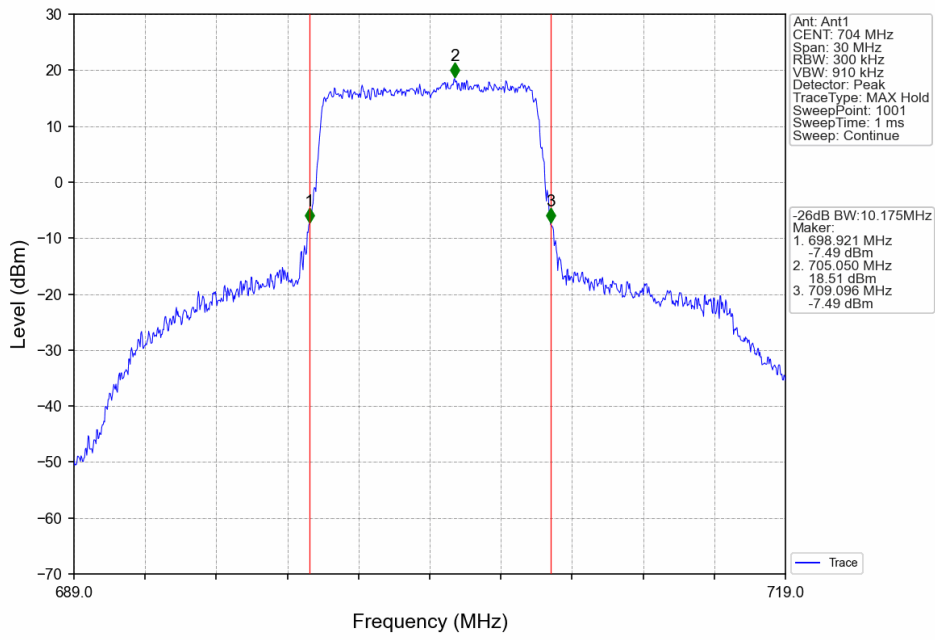


Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

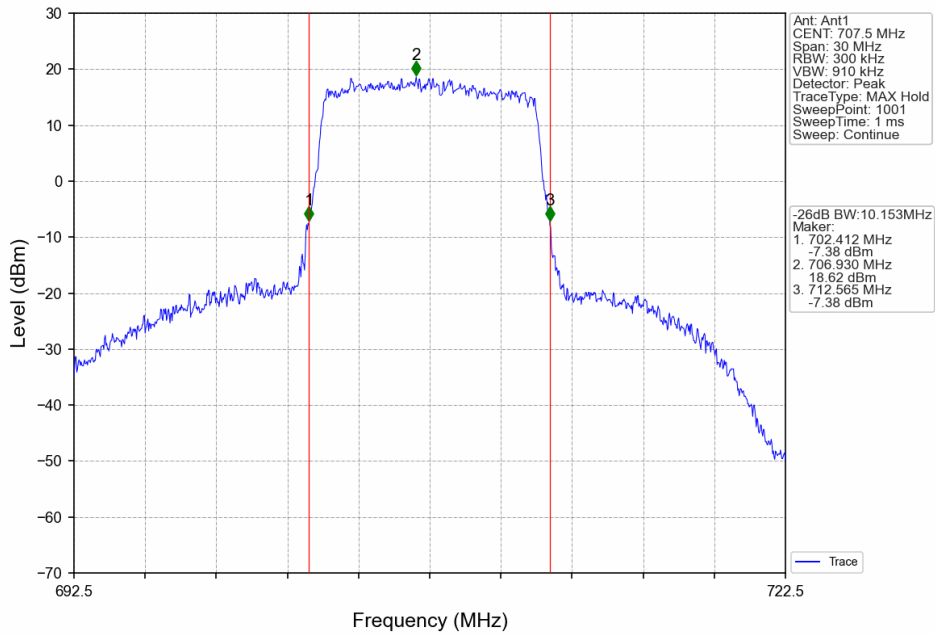




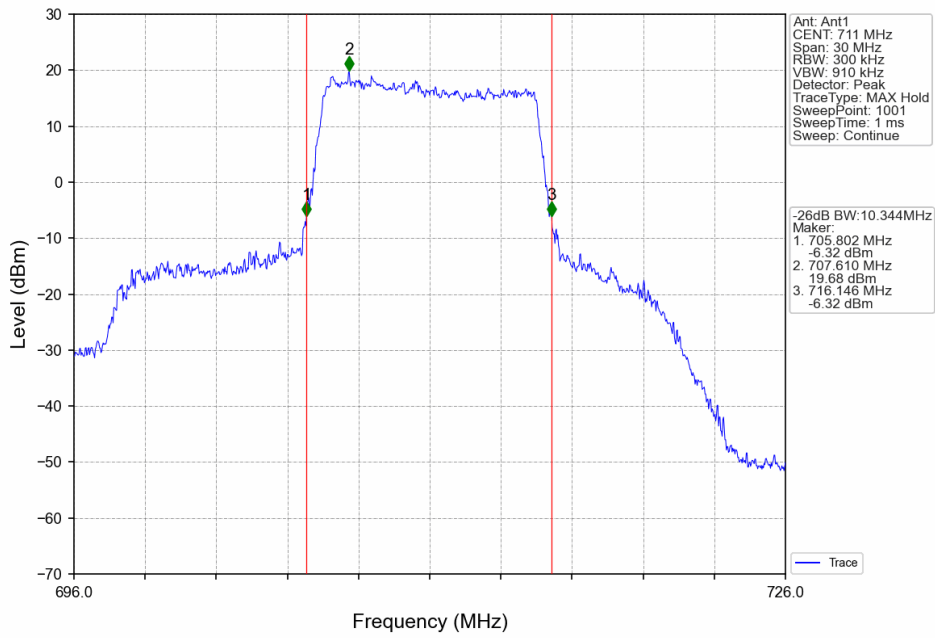
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



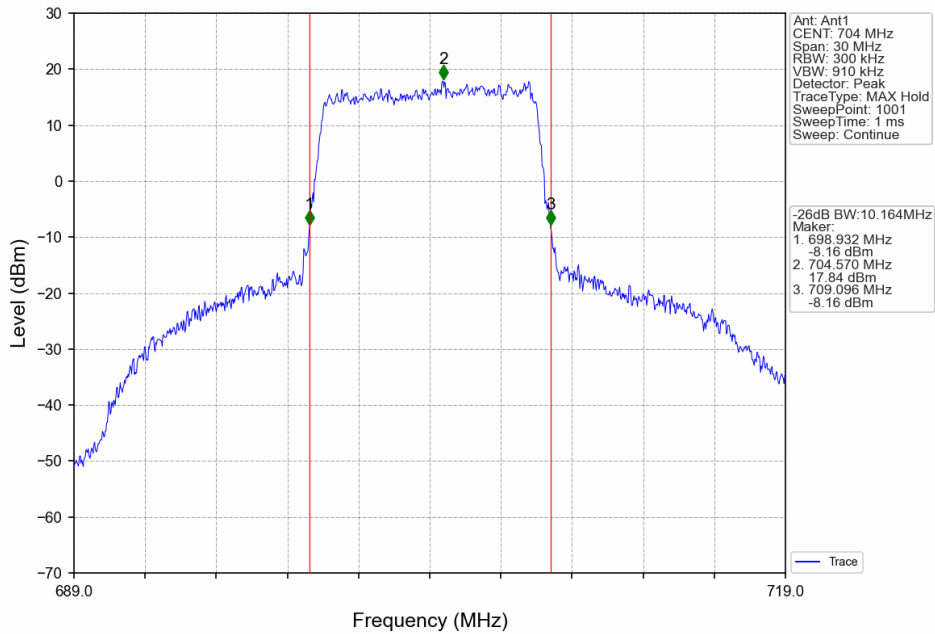
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



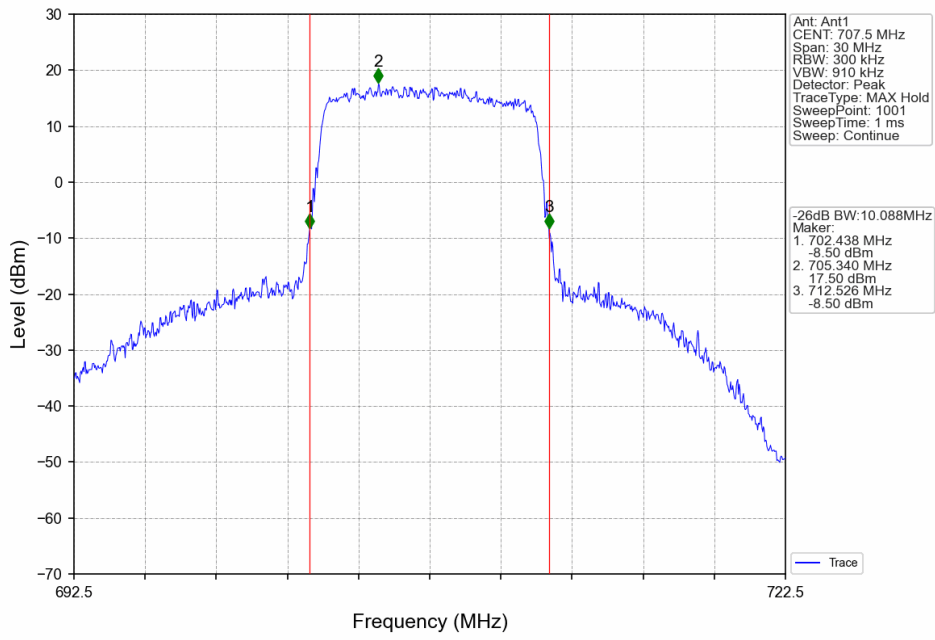
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



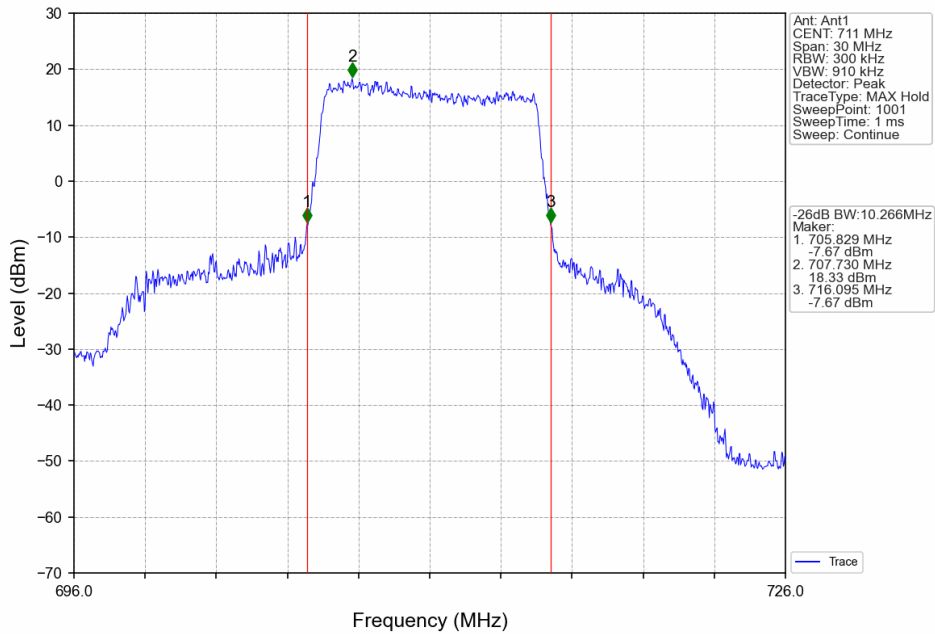
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



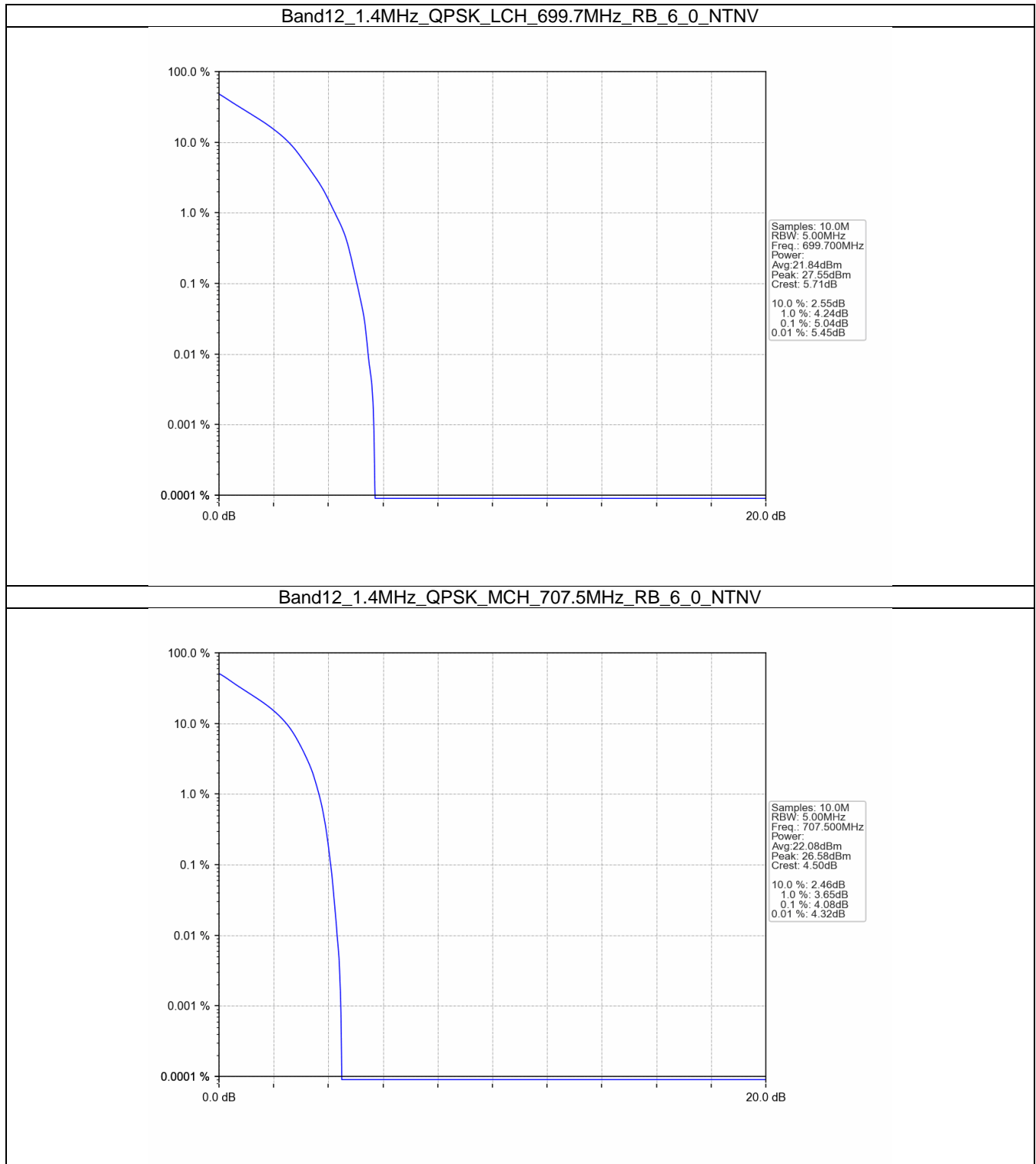
## 5. Peak-Average Ratio

### 5.1 B12\_1.4MHz

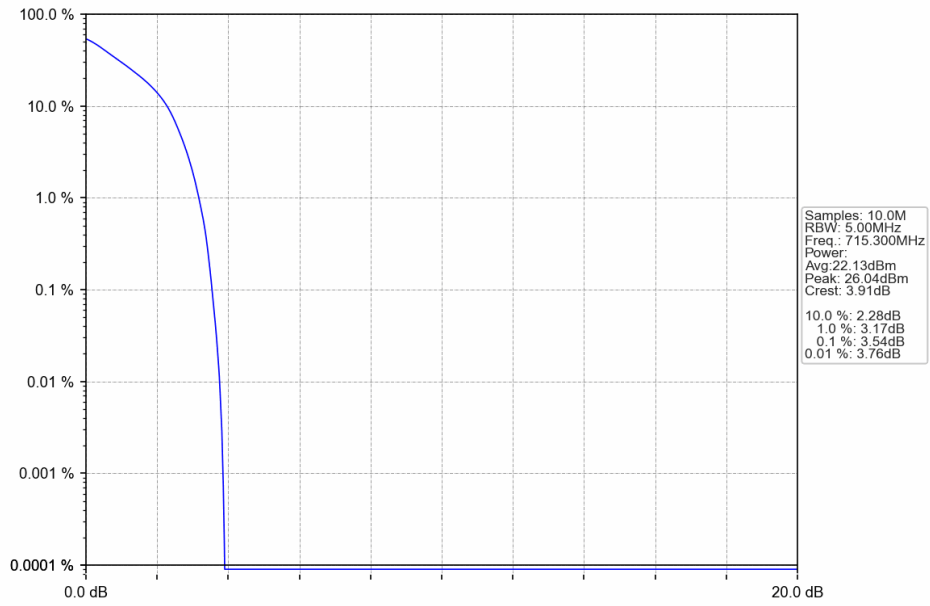
#### 5.1.1 Test Result

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	5.04	<=13	Pass
	707.5	6	0	4.08	<=13	Pass
	715.3	6	0	3.54	<=13	Pass
16QAM	699.7	6	0	5.92	<=13	Pass
	707.5	6	0	4.94	<=13	Pass
	715.3	6	0	4.53	<=13	Pass

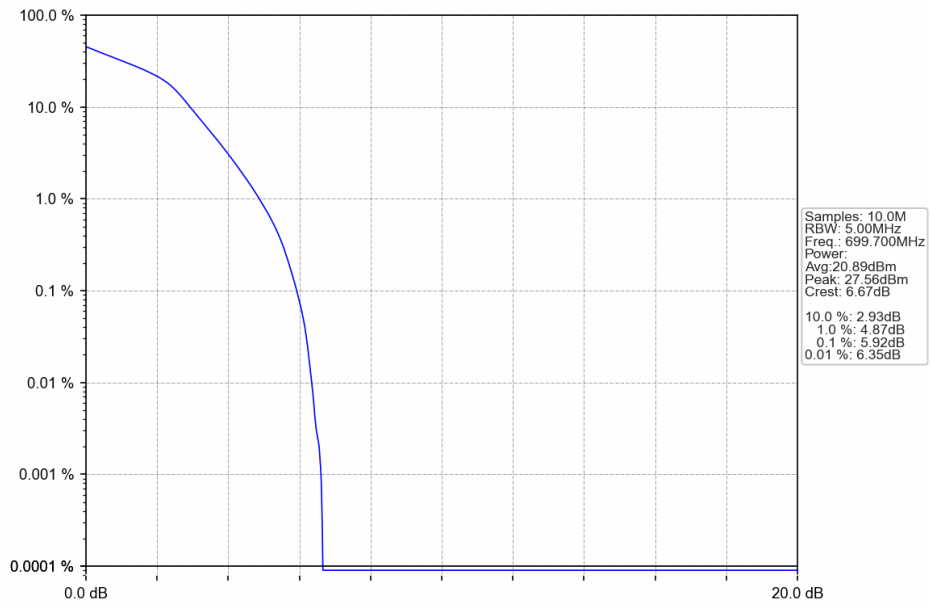
### 5.1.2 Test Graph



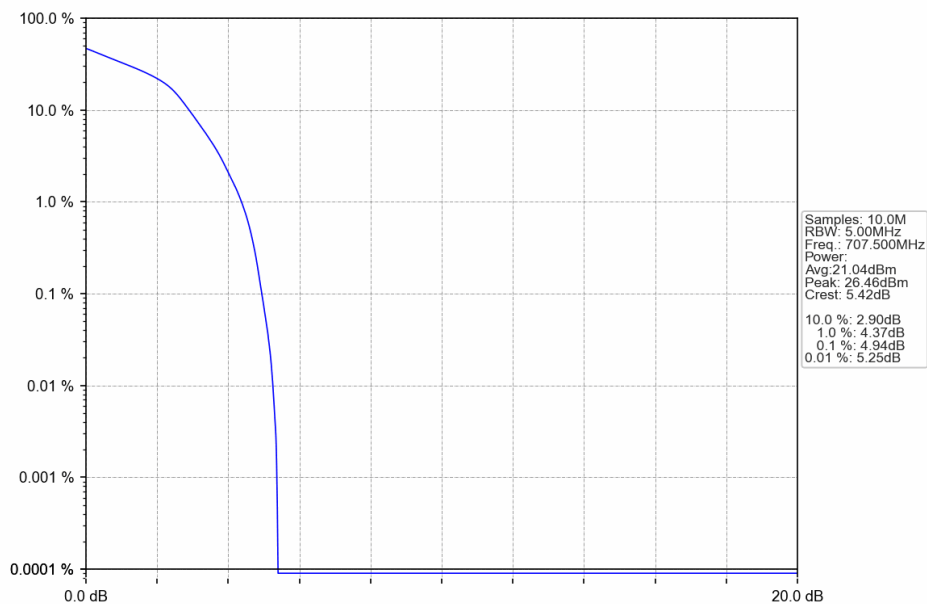
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



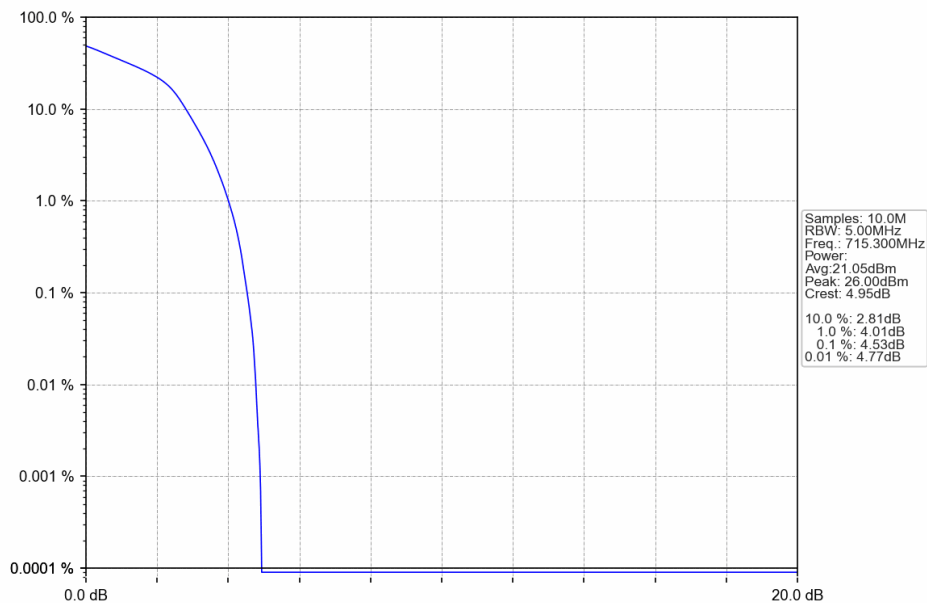
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



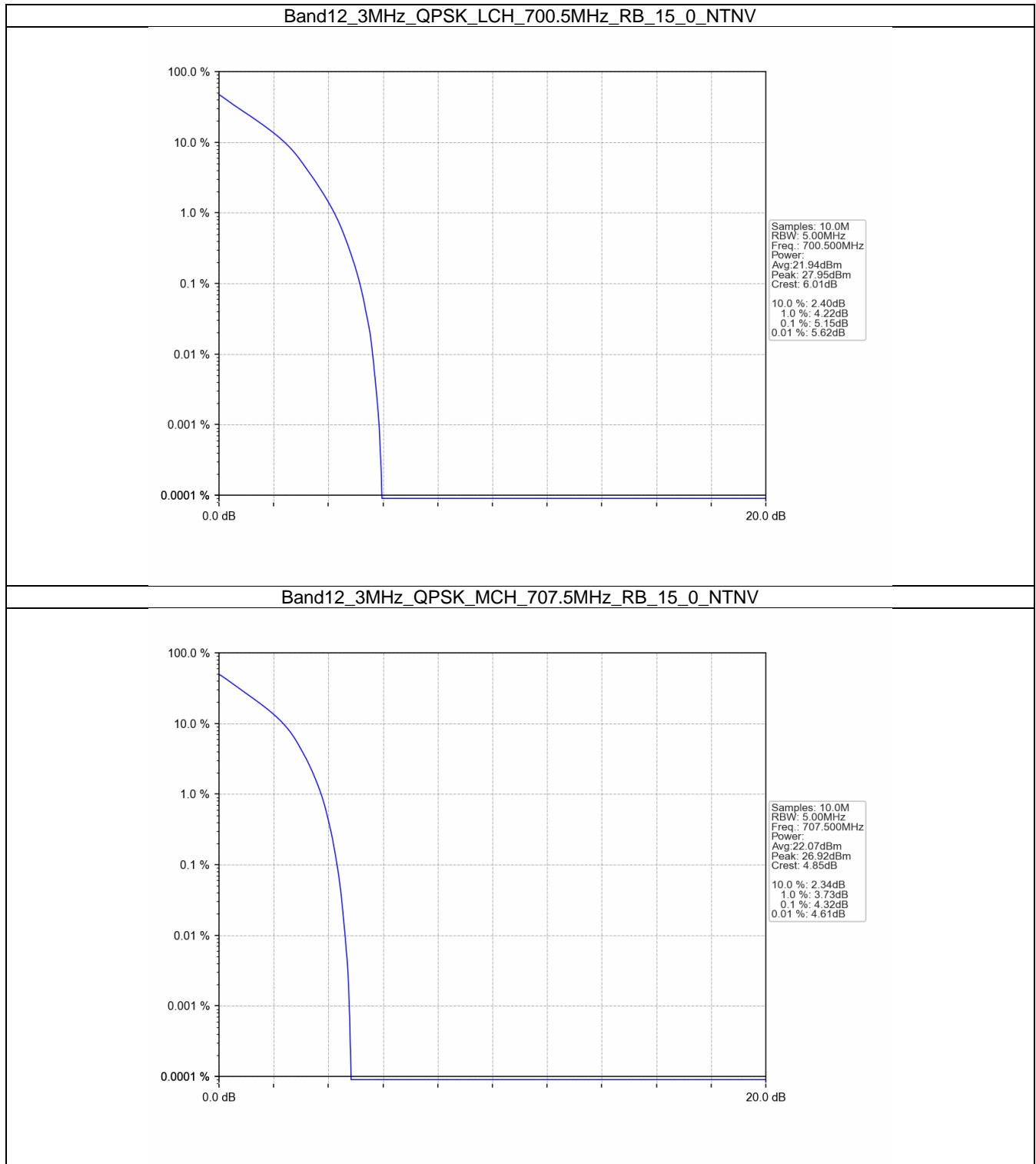
## 5.2 B12\_3MHz

### 5.2.1 Test Result

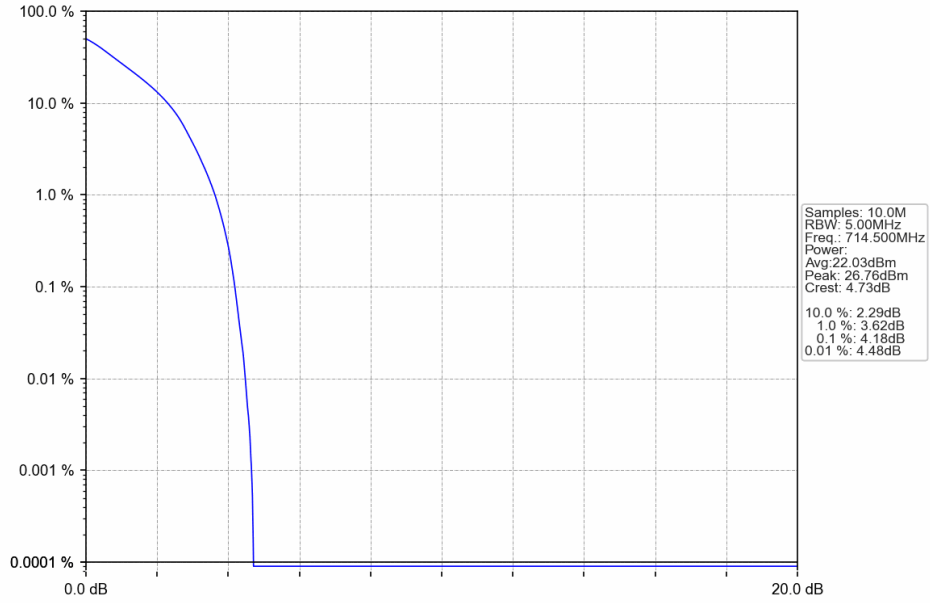
Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.15	<=13	Pass
	707.5	15	0	4.32	<=13	Pass
	714.5	15	0	4.18	<=13	Pass
16QAM	700.5	15	0	5.98	<=13	Pass
	707.5	15	0	5.15	<=13	Pass
	714.5	15	0	5.09	<=13	Pass



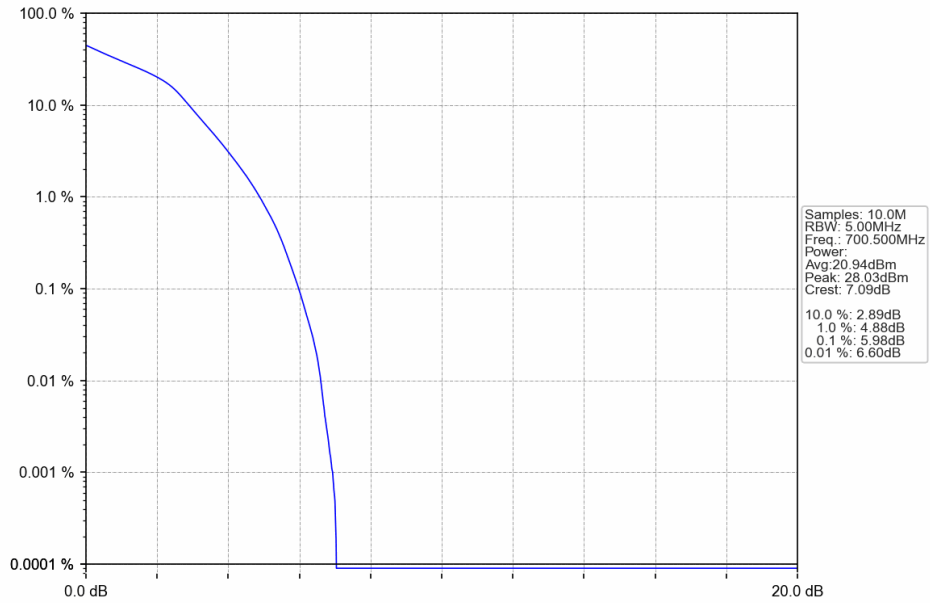
### 5.2.2 Test Graph



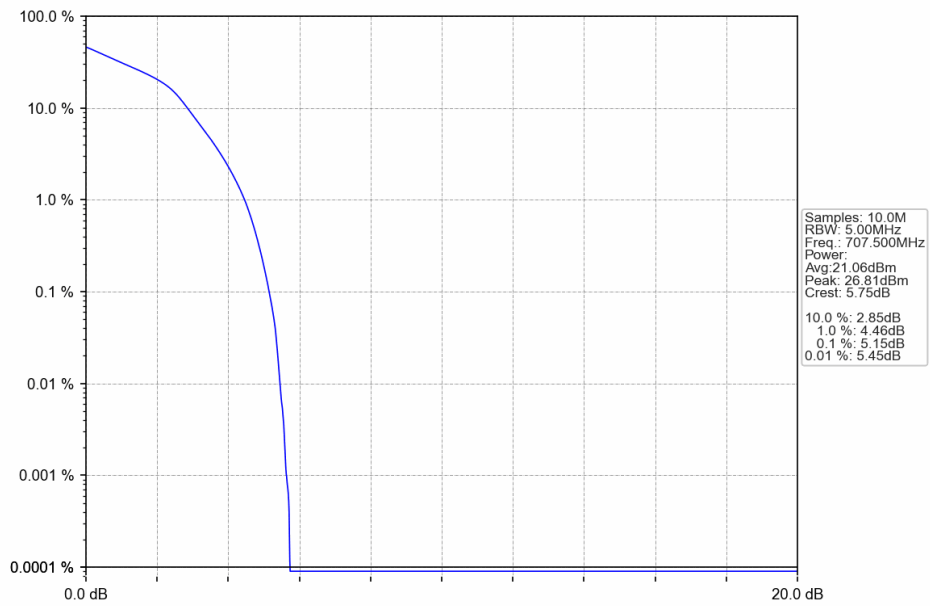
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



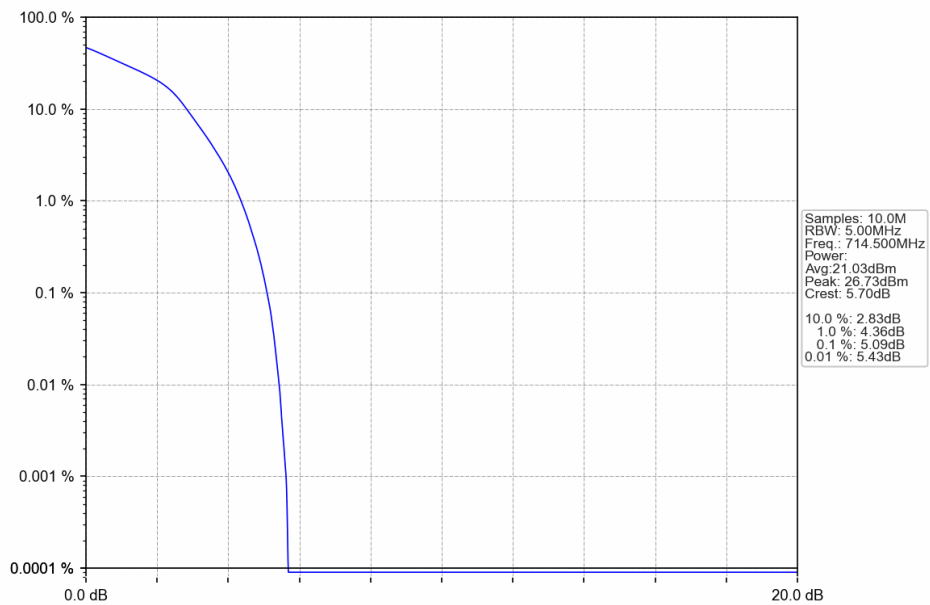
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

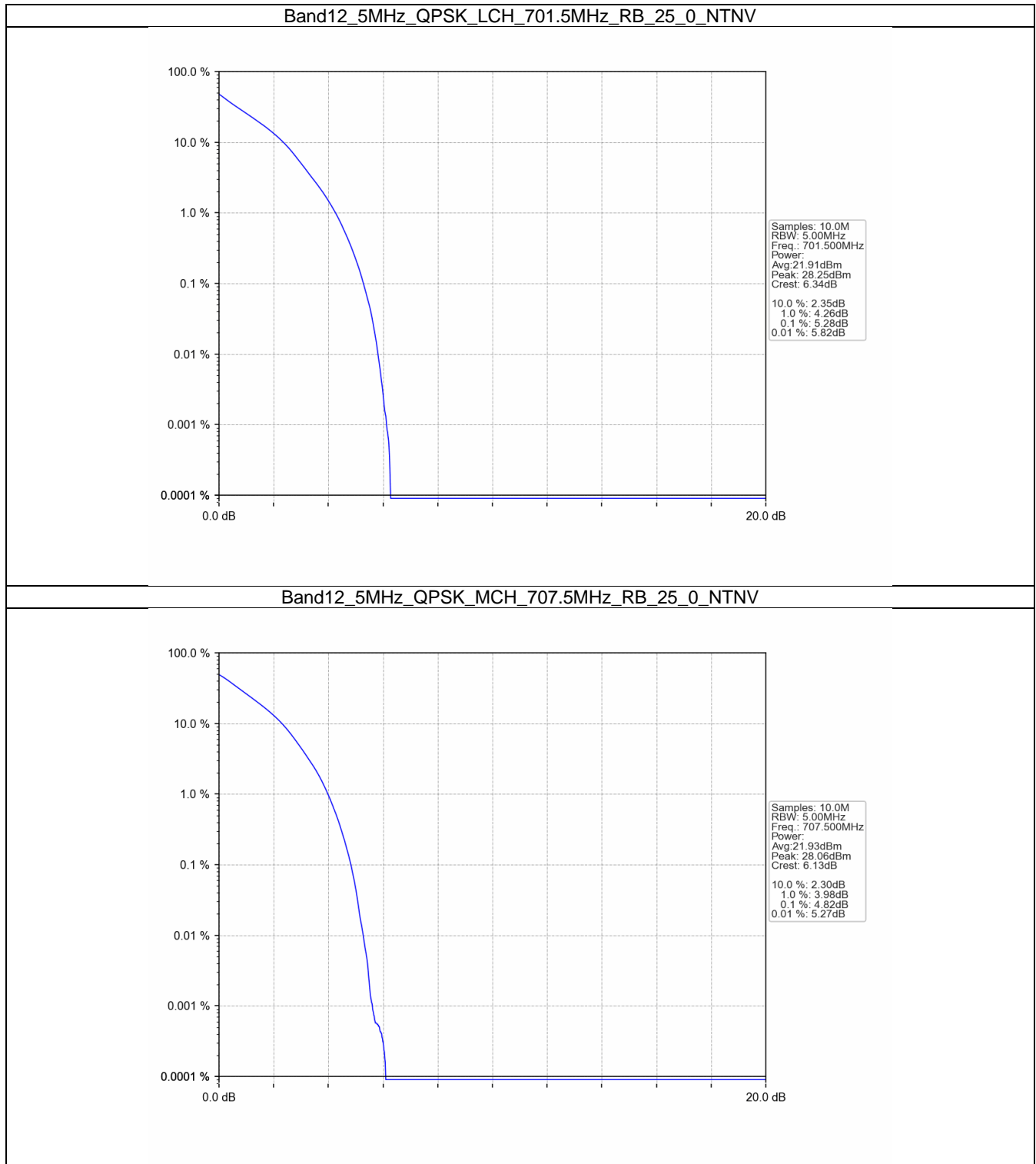


## 5.3 B12\_5MHz

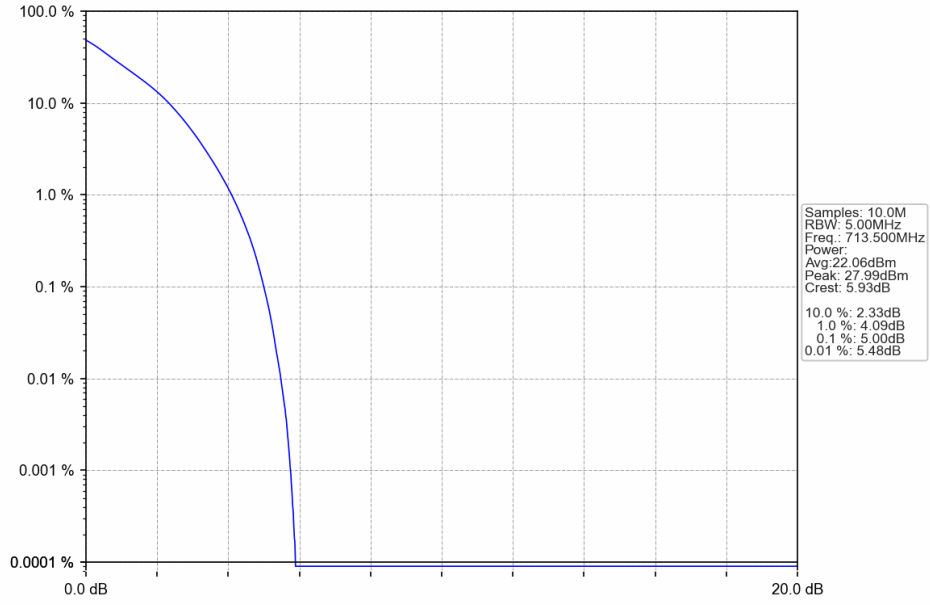
### 5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.28	<=13	Pass
	707.5	25	0	4.82	<=13	Pass
	713.5	25	0	5.00	<=13	Pass
16QAM	701.5	25	0	6.01	<=13	Pass
	707.5	25	0	5.54	<=13	Pass
	713.5	25	0	5.72	<=13	Pass

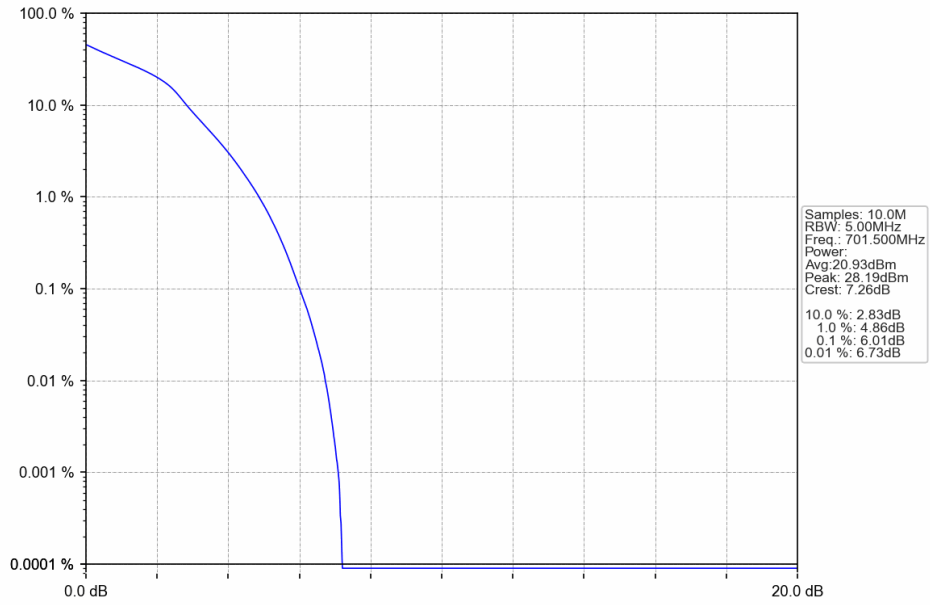
### 5.3.2 Test Graph



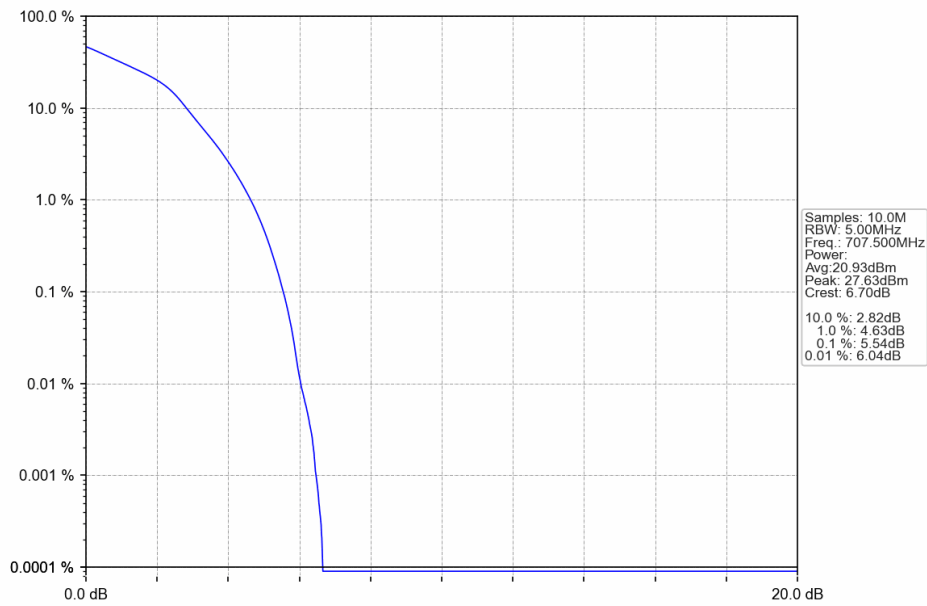
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



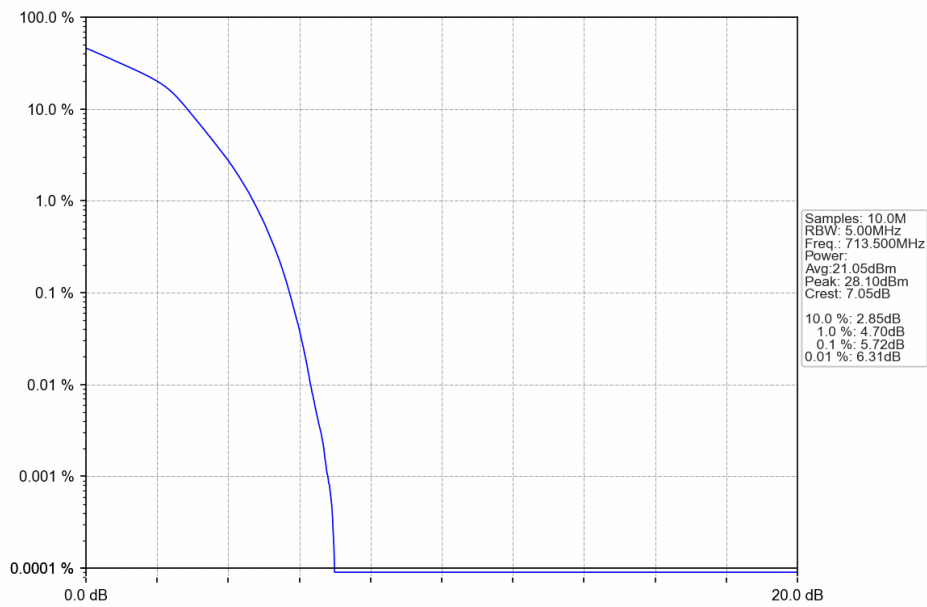
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



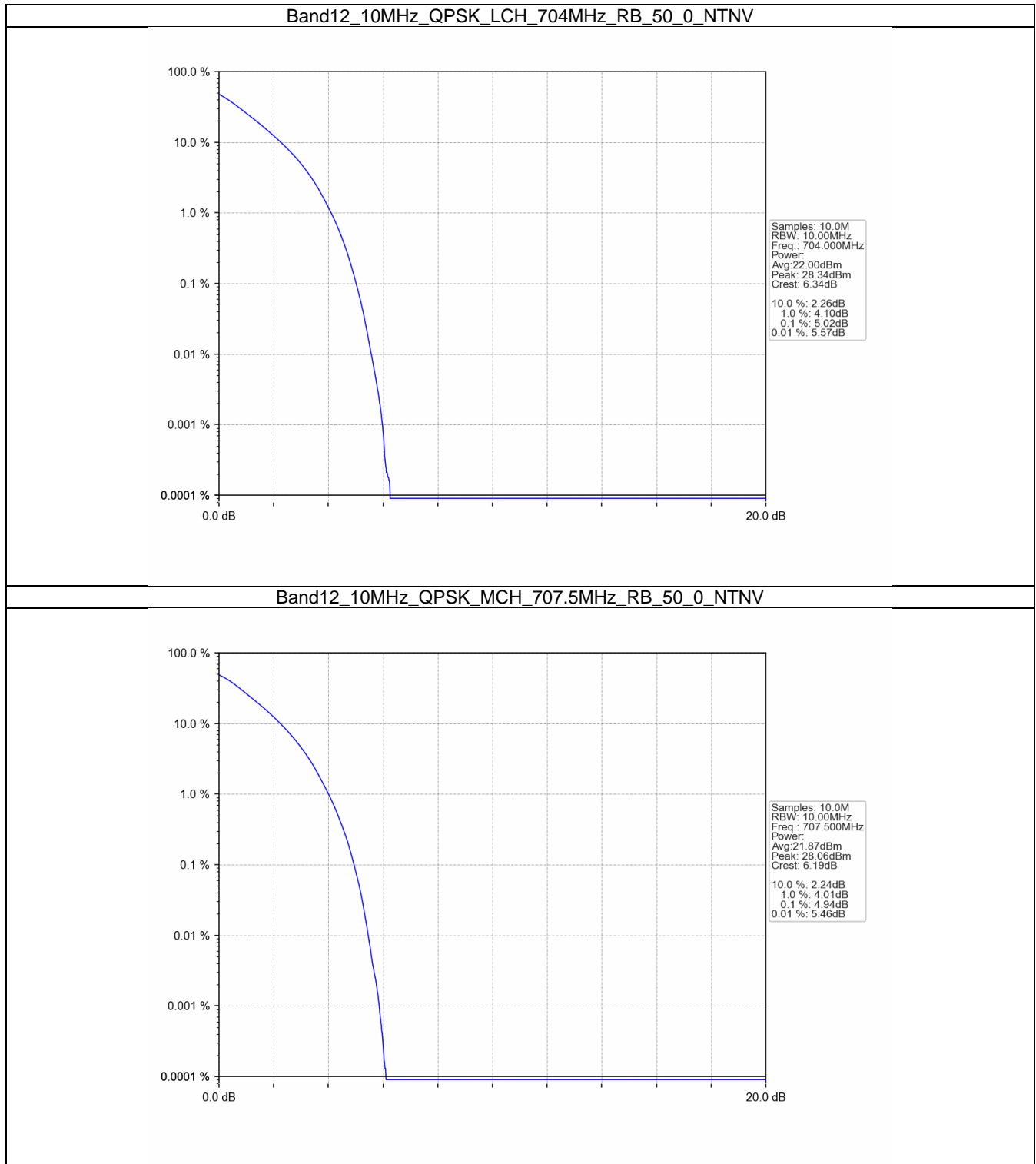
## 5.4 B12\_10MHz

### 5.4.1 Test Result

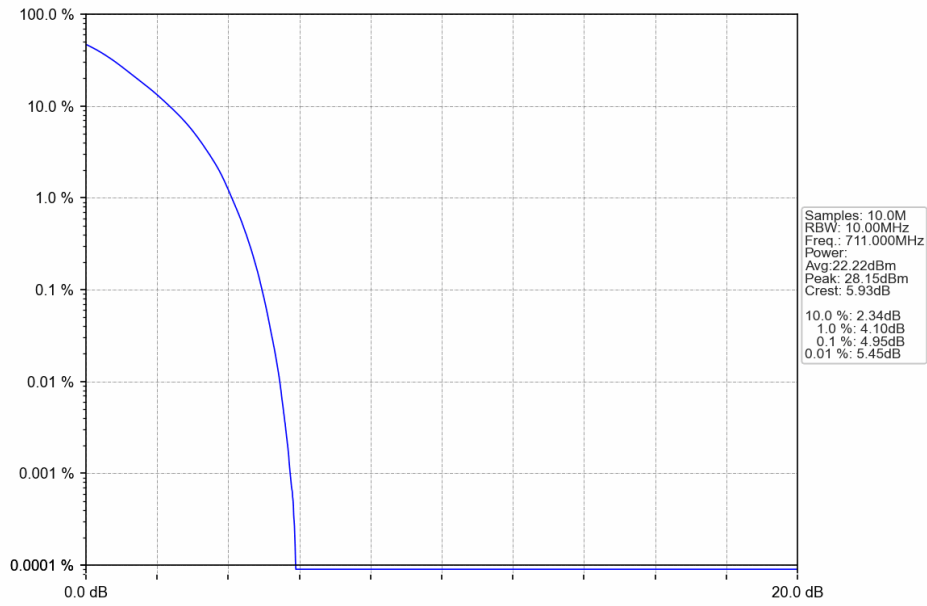
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.02	<=13	Pass
	707.5	50	0	4.94	<=13	Pass
	711	50	0	4.95	<=13	Pass
16QAM	704	50	0	5.78	<=13	Pass
	707.5	50	0	5.74	<=13	Pass
	711	50	0	5.72	<=13	Pass



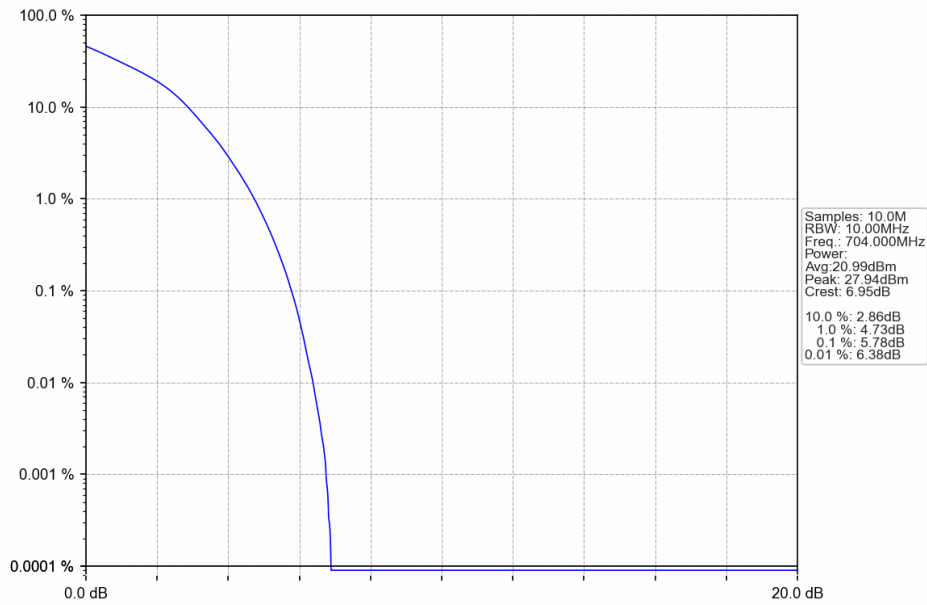
### 5.4.2 Test Graph



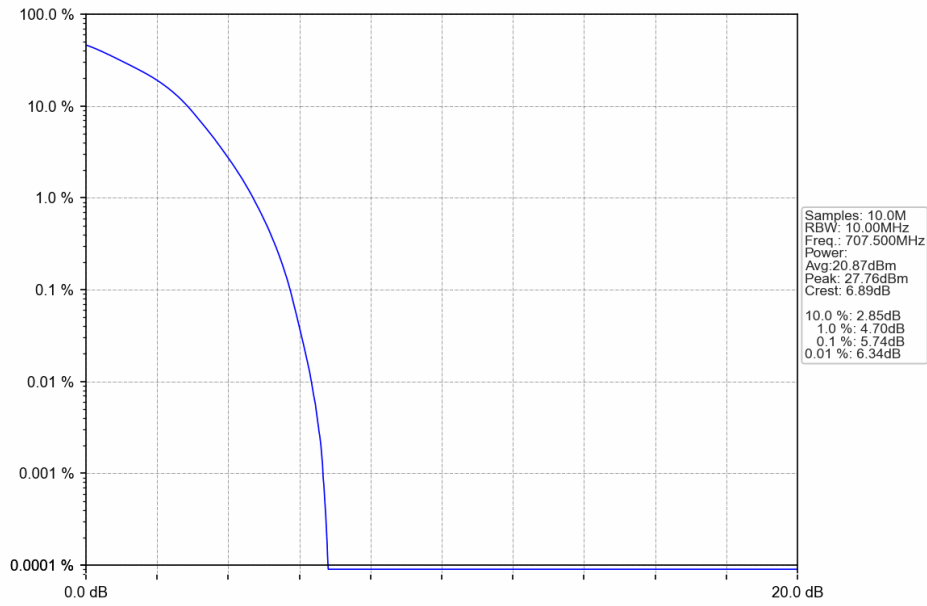
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



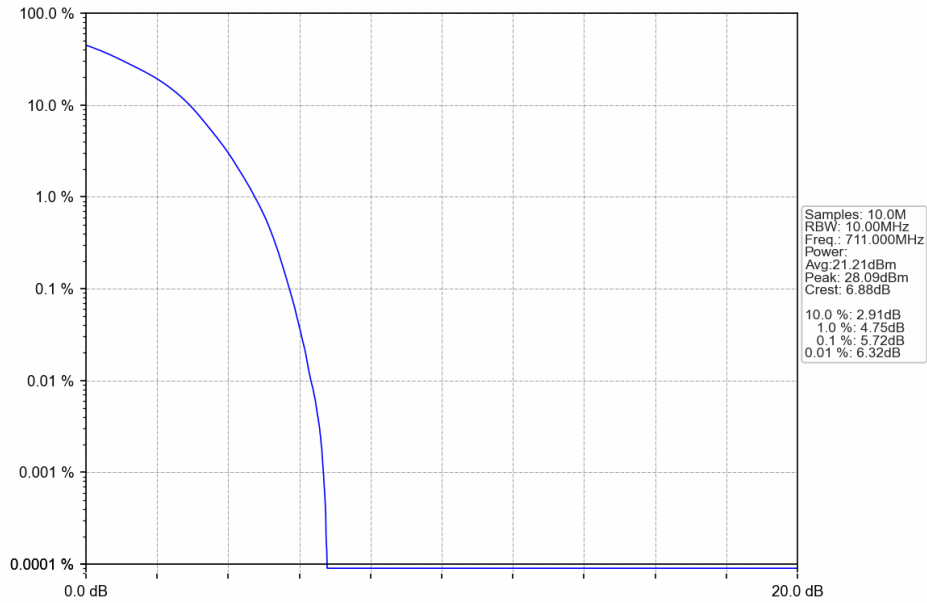
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



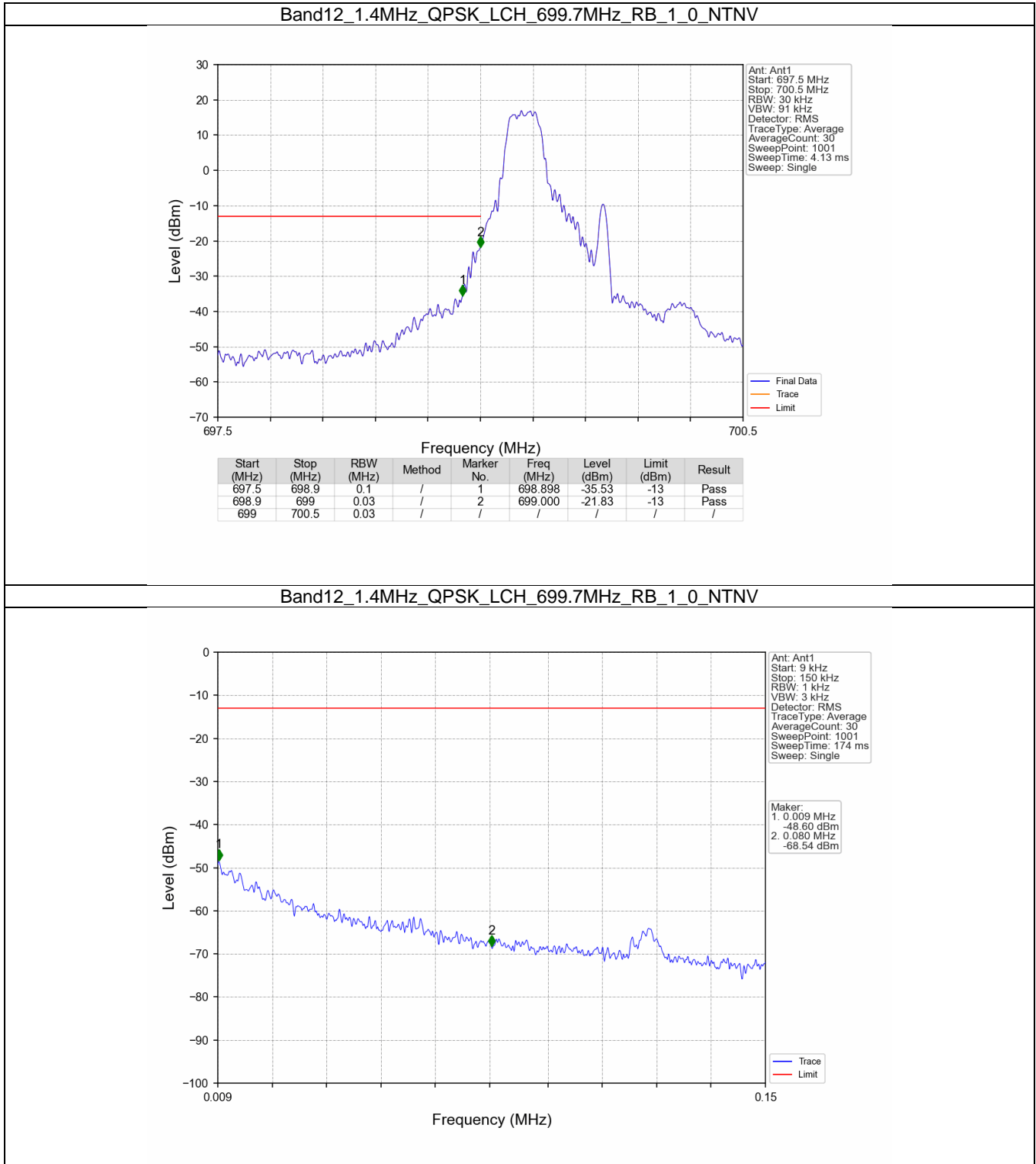
## 6. Spurious Emission

### 6.1 B12\_1.4MHz

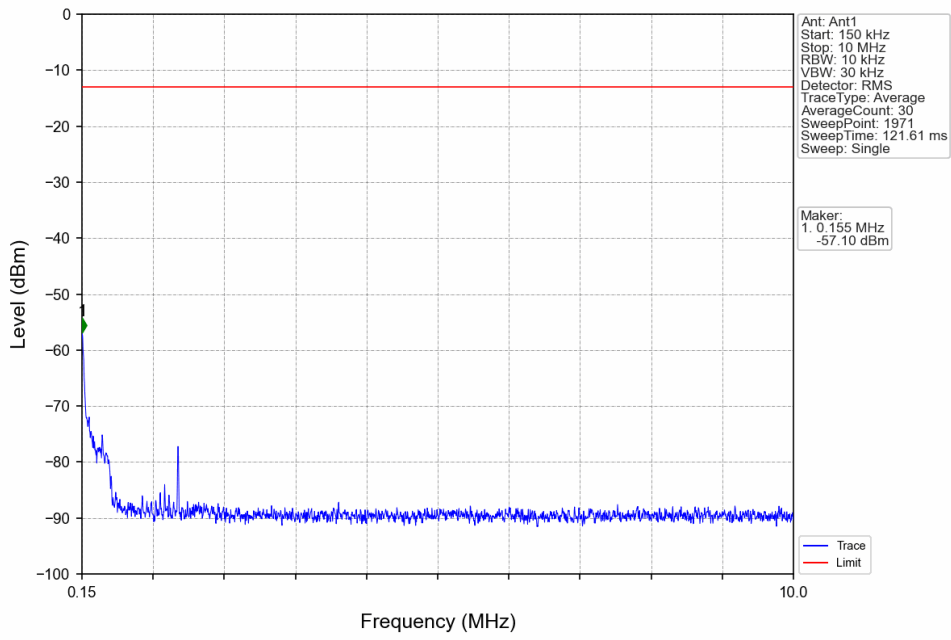
#### 6.1.1 Test Result

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

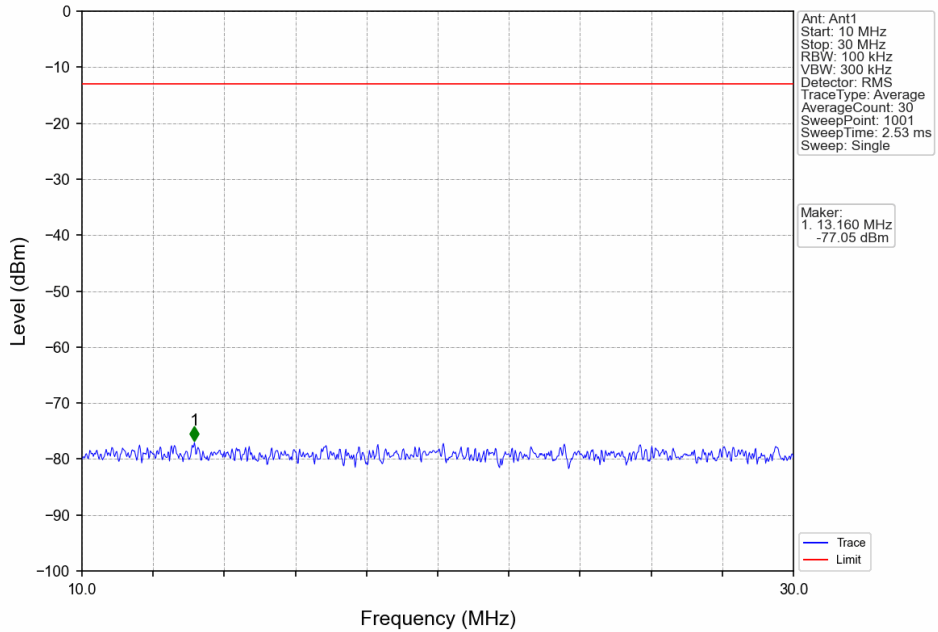
### 6.1.2 Test Graph



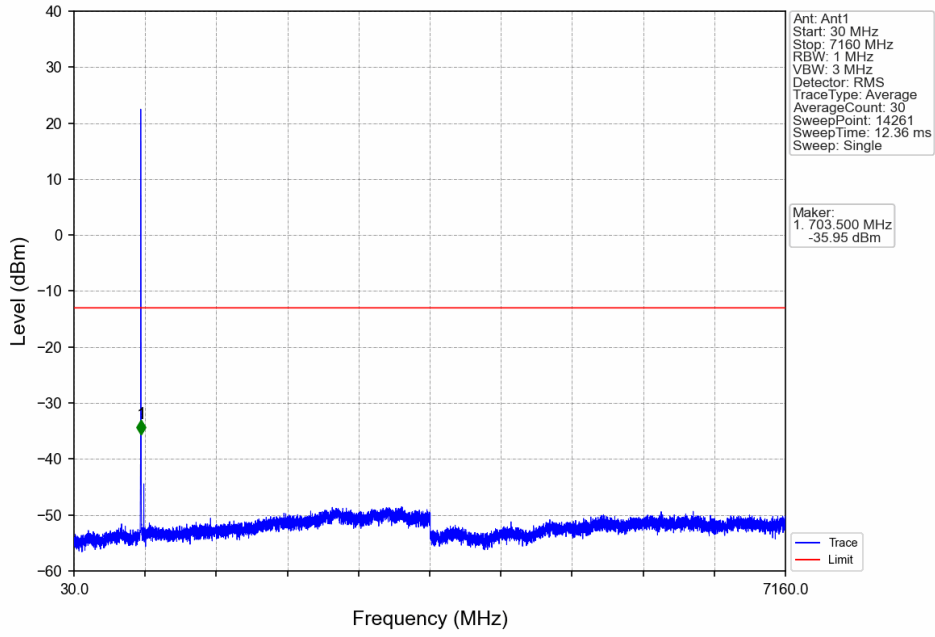
Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



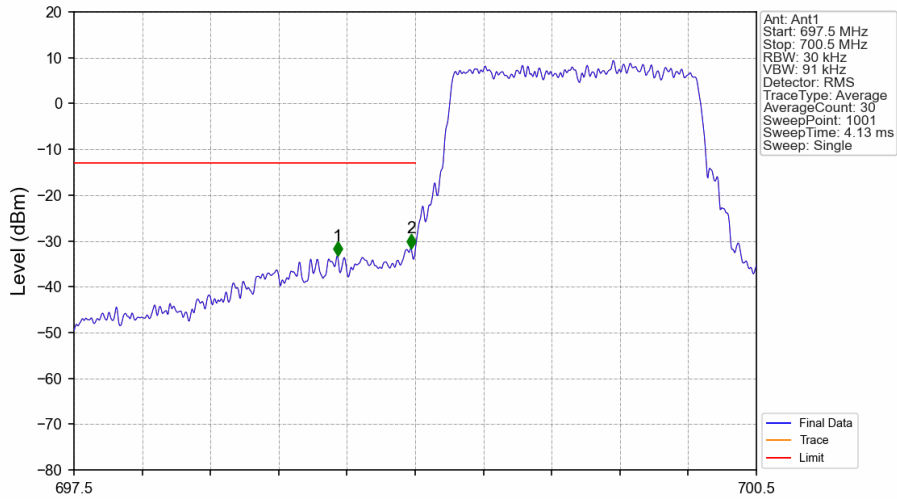
Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

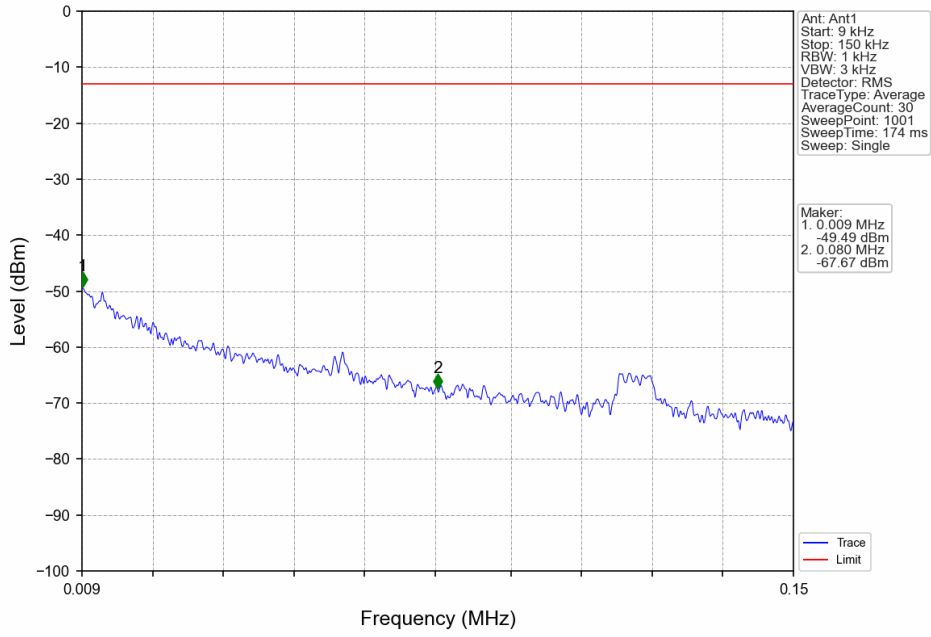


Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	/	1	698.658	-33.21	-13	Pass
698.9	699	0.03	/	2	698.982	-31.62	-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

