

# 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	23.71	0.61	22.17	<=34.77	Pass		
			2	23.78	0.61	22.24	<=34.77	Pass		
			5	23.73	0.61	22.19	<=34.77	Pass		
		3	0	23.70	0.61	22.16	<=34.77	Pass		
			2	23.74	0.61	22.20	<=34.77	Pass		
			3	23.75	0.61	22.21	<=34.77	Pass		
		6	0	22.77	0.61	21.23	<=34.77	Pass		
		707.5	1	0	23.86	0.61	22.32	<=34.77	Pass	
				2	23.96	0.61	22.42	<=34.77	Pass	
	5			23.84	0.61	22.30	<=34.77	Pass		
	3		0	23.87	0.61	22.33	<=34.77	Pass		
			2	23.90	0.61	22.36	<=34.77	Pass		
			3	23.85	0.61	22.31	<=34.77	Pass		
	6		0	22.91	0.61	21.37	<=34.77	Pass		
	715.3		1	0	24.02	0.61	22.48	<=34.77	Pass	
				2	24.23	0.61	22.69	<=34.77	Pass	
		5		24.16	0.61	22.62	<=34.77	Pass		
		3	0	23.92	0.61	22.38	<=34.77	Pass		
			2	23.93	0.61	22.39	<=34.77	Pass		
			3	23.89	0.61	22.35	<=34.77	Pass		
		6	0	23.08	0.61	21.54	<=34.77	Pass		
		16QAM	699.7	1	0	22.75	0.61	21.21	<=34.77	Pass
					2	22.85	0.61	21.31	<=34.77	Pass
	5				22.78	0.61	21.24	<=34.77	Pass	
3	0			22.60	0.61	21.06	<=34.77	Pass		
	2			22.68	0.61	21.14	<=34.77	Pass		
	3			22.68	0.61	21.14	<=34.77	Pass		
6	0			21.68	0.61	20.14	<=34.77	Pass		
707.5	1			0	22.72	0.61	21.18	<=34.77	Pass	
				2	22.89	0.61	21.35	<=34.77	Pass	
			5	22.72	0.61	21.18	<=34.77	Pass		
	3		0	22.97	0.61	21.43	<=34.77	Pass		
			2	23.01	0.61	21.47	<=34.77	Pass		
			3	22.98	0.61	21.44	<=34.77	Pass		
	6		0	21.83	0.61	20.29	<=34.77	Pass		
	715.3		1	0	22.86	0.61	21.32	<=34.77	Pass	
				2	22.96	0.61	21.42	<=34.77	Pass	
5				22.86	0.61	21.32	<=34.77	Pass		
3			0	22.85	0.61	21.31	<=34.77	Pass		
			2	22.81	0.61	21.27	<=34.77	Pass		
			3	22.81	0.61	21.27	<=34.77	Pass		
6			0	21.80	0.61	20.26	<=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 / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	700.5	1	0	23.89	0.61	22.35	<=34.77	Pass		
			7	24.03	0.61	22.49	<=34.77	Pass		
			14	23.93	0.61	22.39	<=34.77	Pass		
		8	0	22.83	0.61	21.29	<=34.77	Pass		
			4	22.87	0.61	21.33	<=34.77	Pass		
			7	22.83	0.61	21.29	<=34.77	Pass		
		15	0	22.78	0.61	21.24	<=34.77	Pass		
		707.5	1	0	23.97	0.61	22.43	<=34.77	Pass	
				7	24.11	0.61	22.57	<=34.77	Pass	
	14			24.01	0.61	22.47	<=34.77	Pass		
	8		0	22.94	0.61	21.40	<=34.77	Pass		
			4	23.01	0.61	21.47	<=34.77	Pass		
			7	23.02	0.61	21.48	<=34.77	Pass		
	15		0	22.93	0.61	21.39	<=34.77	Pass		
	714.5		1	0	24.06	0.61	22.52	<=34.77	Pass	
				7	24.25	0.61	22.71	<=34.77	Pass	
		14		24.22	0.61	22.68	<=34.77	Pass		
		8	0	23.07	0.61	21.53	<=34.77	Pass		
			4	23.12	0.61	21.58	<=34.77	Pass		
			7	23.12	0.61	21.58	<=34.77	Pass		
		15	0	23.02	0.61	21.48	<=34.77	Pass		
		16QAM	700.5	1	0	22.73	0.61	21.19	<=34.77	Pass
					7	22.94	0.61	21.40	<=34.77	Pass
	14				22.86	0.61	21.32	<=34.77	Pass	
8	0			21.79	0.61	20.25	<=34.77	Pass		
	4			21.86	0.61	20.32	<=34.77	Pass		
	7			21.81	0.61	20.27	<=34.77	Pass		
15	0			21.78	0.61	20.24	<=34.77	Pass		
707.5	1			0	23.03	0.61	21.49	<=34.77	Pass	
				7	23.19	0.61	21.65	<=34.77	Pass	
			14	23.04	0.61	21.50	<=34.77	Pass		
	8		0	21.83	0.61	20.29	<=34.77	Pass		
			4	21.87	0.61	20.33	<=34.77	Pass		
			7	21.88	0.61	20.34	<=34.77	Pass		
	15		0	21.84	0.61	20.30	<=34.77	Pass		
	714.5		1	0	23.46	0.61	21.92	<=34.77	Pass	
				7	23.53	0.61	21.99	<=34.77	Pass	
14				23.32	0.61	21.78	<=34.77	Pass		
8			0	22.13	0.61	20.59	<=34.77	Pass		
			4	22.19	0.61	20.65	<=34.77	Pass		
			7	22.11	0.61	20.57	<=34.77	Pass		
15			0	22.01	0.61	20.47	<=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 / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	701.5	1	0	23.64	0.61	22.10	<=34.77	Pass		
			13	23.84	0.61	22.30	<=34.77	Pass		
			24	23.79	0.61	22.25	<=34.77	Pass		
		12	0	22.78	0.61	21.24	<=34.77	Pass		
			6	22.79	0.61	21.25	<=34.77	Pass		
			13	22.62	0.61	21.08	<=34.77	Pass		
		25	0	22.68	0.61	21.14	<=34.77	Pass		
		707.5	1	0	23.76	0.61	22.22	<=34.77	Pass	
				13	23.92	0.61	22.38	<=34.77	Pass	
	24			23.82	0.61	22.28	<=34.77	Pass		
	12		0	22.70	0.61	21.16	<=34.77	Pass		
			6	22.84	0.61	21.30	<=34.77	Pass		
			13	22.92	0.61	21.38	<=34.77	Pass		
	25		0	22.84	0.61	21.30	<=34.77	Pass		
	713.5		1	0	23.78	0.61	22.24	<=34.77	Pass	
				13	24.00	0.61	22.46	<=34.77	Pass	
		24		23.98	0.61	22.44	<=34.77	Pass		
		12	0	23.06	0.61	21.52	<=34.77	Pass		
			6	22.96	0.61	21.42	<=34.77	Pass		
			13	22.81	0.61	21.27	<=34.77	Pass		
		25	0	22.99	0.61	21.45	<=34.77	Pass		
		16QAM	701.5	1	0	22.61	0.61	21.07	<=34.77	Pass
					13	22.86	0.61	21.32	<=34.77	Pass
	24				22.81	0.61	21.27	<=34.77	Pass	
12	0			21.73	0.61	20.19	<=34.77	Pass		
	6			21.74	0.61	20.20	<=34.77	Pass		
	13			21.60	0.61	20.06	<=34.77	Pass		
25	0			21.65	0.61	20.11	<=34.77	Pass		
707.5	1			0	22.91	0.61	21.37	<=34.77	Pass	
				13	23.00	0.61	21.46	<=34.77	Pass	
			24	22.93	0.61	21.39	<=34.77	Pass		
	12		0	21.71	0.61	20.17	<=34.77	Pass		
			6	21.83	0.61	20.29	<=34.77	Pass		
			13	21.92	0.61	20.38	<=34.77	Pass		
	25		0	21.76	0.61	20.22	<=34.77	Pass		
	713.5		1	0	22.57	0.61	21.03	<=34.77	Pass	
				13	22.78	0.61	21.24	<=34.77	Pass	
24				22.64	0.61	21.10	<=34.77	Pass		
12			0	22.01	0.61	20.47	<=34.77	Pass		
			6	21.93	0.61	20.39	<=34.77	Pass		
			13	21.79	0.61	20.25	<=34.77	Pass		
25			0	21.96	0.61	20.42	<=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	23.71	0.61	22.17	<=34.77	Pass		
			25	24.11	0.61	22.57	<=34.77	Pass		
			49	23.97	0.61	22.43	<=34.77	Pass		
		25	0	23.03	0.61	21.49	<=34.77	Pass		
			13	22.88	0.61	21.34	<=34.77	Pass		
			25	23.12	0.61	21.58	<=34.77	Pass		
		50	0	23.07	0.61	21.53	<=34.77	Pass		
		707.5	1	0	23.72	0.61	22.18	<=34.77	Pass	
				25	24.08	0.61	22.54	<=34.77	Pass	
	49			23.92	0.61	22.38	<=34.77	Pass		
	25		0	22.75	0.61	21.21	<=34.77	Pass		
			13	22.88	0.61	21.34	<=34.77	Pass		
			25	22.96	0.61	21.42	<=34.77	Pass		
	50		0	22.89	0.61	21.35	<=34.77	Pass		
	711		1	0	23.84	0.61	22.30	<=34.77	Pass	
				25	24.12	0.61	22.58	<=34.77	Pass	
		49		24.09	0.61	22.55	<=34.77	Pass		
		25	0	22.68	0.61	21.14	<=34.77	Pass		
			13	22.90	0.61	21.36	<=34.77	Pass		
			25	22.68	0.61	21.14	<=34.77	Pass		
		50	0	22.73	0.61	21.19	<=34.77	Pass		
		16QAM	704	1	0	22.58	0.61	21.04	<=34.77	Pass
					25	22.99	0.61	21.45	<=34.77	Pass
	49				22.78	0.61	21.24	<=34.77	Pass	
25	0			22.07	0.61	20.53	<=34.77	Pass		
	13			21.92	0.61	20.38	<=34.77	Pass		
	25			22.10	0.61	20.56	<=34.77	Pass		
50	0			22.02	0.61	20.48	<=34.77	Pass		
707.5	1			0	22.78	0.61	21.24	<=34.77	Pass	
				25	23.13	0.61	21.59	<=34.77	Pass	
			49	23.04	0.61	21.50	<=34.77	Pass		
	25		0	21.74	0.61	20.20	<=34.77	Pass		
			13	21.89	0.61	20.35	<=34.77	Pass		
			25	21.91	0.61	20.37	<=34.77	Pass		
	50		0	21.85	0.61	20.31	<=34.77	Pass		
	711		1	0	23.19	0.61	21.65	<=34.77	Pass	
				25	23.50	0.61	21.96	<=34.77	Pass	
49				23.28	0.61	21.74	<=34.77	Pass		
25			0	21.67	0.61	20.13	<=34.77	Pass		
			13	21.91	0.61	20.37	<=34.77	Pass		
			25	21.69	0.61	20.15	<=34.77	Pass		
50			0	21.67	0.61	20.13	<=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	-9.384	-0.0134	-2.5 to 2.5	Pass
					3.85	-1.516	-0.0022	-2.5 to 2.5	Pass
					4.43	-5.894	-0.0084	-2.5 to 2.5	Pass
				-30	3.85	-5.236	-0.0075	-2.5 to 2.5	Pass
				-20	3.85	-7.367	-0.0105	-2.5 to 2.5	Pass
				-10	3.85	-5.908	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-5.693	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-6.266	-0.0090	-2.5 to 2.5	Pass
				30	3.85	-5.636	-0.0081	-2.5 to 2.5	Pass
	40	3.85	-4.649	-0.0066	-2.5 to 2.5	Pass			
	50	3.85	-6.037	-0.0086	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.27	-6.537	-0.0092	-2.5 to 2.5	Pass
					3.85	-7.968	-0.0113	-2.5 to 2.5	Pass
					4.43	-6.266	-0.0089	-2.5 to 2.5	Pass
				-30	3.85	-5.193	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-7.710	-0.0109	-2.5 to 2.5	Pass
				-10	3.85	-3.533	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-6.938	-0.0098	-2.5 to 2.5	Pass
				10	3.85	-10.772	-0.0152	-2.5 to 2.5	Pass
				30	3.85	-9.856	-0.0139	-2.5 to 2.5	Pass
	40	3.85	-6.952	-0.0098	-2.5 to 2.5	Pass			
	50	3.85	-6.223	-0.0088	-2.5 to 2.5	Pass			
	715.3	6	0	20	3.27	-3.347	-0.0047	-2.5 to 2.5	Pass
					3.85	-7.467	-0.0104	-2.5 to 2.5	Pass
					4.43	-9.828	-0.0137	-2.5 to 2.5	Pass
				-30	3.85	-1.760	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-6.366	-0.0089	-2.5 to 2.5	Pass
-10				3.85	-3.648	-0.0051	-2.5 to 2.5	Pass	
0				3.85	-5.007	-0.0070	-2.5 to 2.5	Pass	
10				3.85	-7.954	-0.0111	-2.5 to 2.5	Pass	
30				3.85	-6.437	-0.0090	-2.5 to 2.5	Pass	
40	3.85	-6.537	-0.0091	-2.5 to 2.5	Pass				
50	3.85	-1.802	-0.0025	-2.5 to 2.5	Pass				
16QAM	699.7	6	0	20	3.27	-3.562	-0.0051	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
					4.43	-7.310	-0.0104	-2.5 to 2.5	Pass
				-30	3.85	-4.950	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-4.478	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-6.909	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-5.751	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-6.623	-0.0095	-2.5 to 2.5	Pass
	40	3.85	-2.961	-0.0042	-2.5 to 2.5	Pass			
	50	3.85	-6.166	-0.0088	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.27	-8.512	-0.0120	-2.5 to 2.5	Pass
					3.85	-10.085	-0.0143	-2.5 to 2.5	Pass
					4.43	-9.170	-0.0130	-2.5 to 2.5	Pass
				-30	3.85	-5.507	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-6.394	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-7.410	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-6.623	-0.0094	-2.5 to 2.5	Pass
10				3.85	-3.262	-0.0046	-2.5 to 2.5	Pass	

				30	3.85	-8.211	-0.0116	-2.5 to 2.5	Pass
				40	3.85	-6.723	-0.0095	-2.5 to 2.5	Pass
				50	3.85	-5.593	-0.0079	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-9.627	-0.0135	-2.5 to 2.5	Pass
					3.85	-2.918	-0.0041	-2.5 to 2.5	Pass
					4.43	-5.965	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-3.390	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-6.809	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-8.225	-0.0115	-2.5 to 2.5	Pass
				0	3.85	-5.279	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-7.038	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-7.224	-0.0101	-2.5 to 2.5	Pass
				40	3.85	-8.011	-0.0112	-2.5 to 2.5	Pass
				50	3.85	-6.895	-0.0096	-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	-5.035	-0.0072	-2.5 to 2.5	Pass
					3.85	-5.078	-0.0072	-2.5 to 2.5	Pass
					4.43	-9.813	-0.0140	-2.5 to 2.5	Pass
				-30	3.85	-6.981	-0.0100	-2.5 to 2.5	Pass
				-20	3.85	-5.150	-0.0074	-2.5 to 2.5	Pass
				-10	3.85	-8.483	-0.0121	-2.5 to 2.5	Pass
				0	3.85	-3.448	-0.0049	-2.5 to 2.5	Pass
				10	3.85	-5.937	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-4.506	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-6.809	-0.0097	-2.5 to 2.5	Pass
				50	3.85	-7.296	-0.0104	-2.5 to 2.5	Pass
				707.5	15	0	20	3.27	-5.350
	3.85	-6.967	-0.0098					-2.5 to 2.5	Pass
	4.43	-7.224	-0.0102					-2.5 to 2.5	Pass
	-30	3.85	-7.668				-0.0108	-2.5 to 2.5	Pass
	-20	3.85	-3.877				-0.0055	-2.5 to 2.5	Pass
	-10	3.85	-5.450				-0.0077	-2.5 to 2.5	Pass
	0	3.85	-2.961				-0.0042	-2.5 to 2.5	Pass
	10	3.85	-2.546				-0.0036	-2.5 to 2.5	Pass
	30	3.85	-6.008				-0.0085	-2.5 to 2.5	Pass
	40	3.85	-9.170				-0.0130	-2.5 to 2.5	Pass
	50	3.85	-7.510				-0.0106	-2.5 to 2.5	Pass
	714.5	15	0				20	3.27	-4.764
				3.85	-9.212	-0.0129		-2.5 to 2.5	Pass
				4.43	-8.440	-0.0118		-2.5 to 2.5	Pass
				-30	3.85	-4.406	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-10.672	-0.0149	-2.5 to 2.5	Pass
				-10	3.85	-4.935	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-6.180	-0.0086	-2.5 to 2.5	Pass
				10	3.85	-6.809	-0.0095	-2.5 to 2.5	Pass

				30	3.85	-7.281	-0.0102	-2.5 to 2.5	Pass
				40	3.85	-8.440	-0.0118	-2.5 to 2.5	Pass
				50	3.85	-5.894	-0.0082	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-5.121	-0.0073	-2.5 to 2.5	Pass
					3.85	-5.794	-0.0083	-2.5 to 2.5	Pass
					4.43	-6.909	-0.0099	-2.5 to 2.5	Pass
				-30	3.85	-7.725	-0.0110	-2.5 to 2.5	Pass
				-20	3.85	-9.298	-0.0133	-2.5 to 2.5	Pass
				-10	3.85	-3.619	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-8.454	-0.0121	-2.5 to 2.5	Pass
				10	3.85	-9.642	-0.0138	-2.5 to 2.5	Pass
				30	3.85	-6.194	-0.0088	-2.5 to 2.5	Pass
				40	3.85	-6.180	-0.0088	-2.5 to 2.5	Pass
	50	3.85	-8.984	-0.0128	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	-5.035	-0.0071	-2.5 to 2.5	Pass
					3.85	-6.166	-0.0087	-2.5 to 2.5	Pass
					4.43	-3.619	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-7.596	-0.0107	-2.5 to 2.5	Pass
				-20	3.85	-6.580	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-4.592	-0.0065	-2.5 to 2.5	Pass
				30	3.85	-7.367	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-5.565	-0.0079	-2.5 to 2.5	Pass
	50	3.85	-6.394	-0.0090	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-4.807	-0.0067	-2.5 to 2.5	Pass
					3.85	-6.280	-0.0088	-2.5 to 2.5	Pass
					4.43	-11.129	-0.0156	-2.5 to 2.5	Pass
				-30	3.85	-4.063	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-11.401	-0.0160	-2.5 to 2.5	Pass
				-10	3.85	-9.699	-0.0136	-2.5 to 2.5	Pass
				0	3.85	-9.041	-0.0127	-2.5 to 2.5	Pass
				10	3.85	-6.566	-0.0092	-2.5 to 2.5	Pass
30				3.85	-4.077	-0.0057	-2.5 to 2.5	Pass	
40				3.85	-5.579	-0.0078	-2.5 to 2.5	Pass	
50	3.85	-3.061	-0.0043	-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	-3.748	-0.0053	-2.5 to 2.5	Pass
					3.85	-5.593	-0.0080	-2.5 to 2.5	Pass
					4.43	-7.682	-0.0110	-2.5 to 2.5	Pass
				-30	3.85	-7.682	-0.0110	-2.5 to 2.5	Pass
				-20	3.85	-6.995	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-7.553	-0.0108	-2.5 to 2.5	Pass
				10	3.85	-7.796	-0.0111	-2.5 to 2.5	Pass

	707.5	25	0	30	3.85	-6.866	-0.0098	-2.5 to 2.5	Pass			
				40	3.85	-5.865	-0.0084	-2.5 to 2.5	Pass			
				50	3.85	-4.005	-0.0057	-2.5 to 2.5	Pass			
				20	3.27	-6.566	-0.0093	-2.5 to 2.5	Pass			
					3.85	-8.011	-0.0113	-2.5 to 2.5	Pass			
					4.43	-7.024	-0.0099	-2.5 to 2.5	Pass			
				-30	3.85	-5.651	-0.0080	-2.5 to 2.5	Pass			
				-20	3.85	-9.356	-0.0132	-2.5 to 2.5	Pass			
				-10	3.85	-12.345	-0.0174	-2.5 to 2.5	Pass			
				0	3.85	-7.939	-0.0112	-2.5 to 2.5	Pass			
				10	3.85	-4.377	-0.0062	-2.5 to 2.5	Pass			
				30	3.85	-4.134	-0.0058	-2.5 to 2.5	Pass			
				40	3.85	-5.350	-0.0076	-2.5 to 2.5	Pass			
				50	3.85	-3.891	-0.0055	-2.5 to 2.5	Pass			
				713.5	25	0	20	3.27	-5.436	-0.0076	-2.5 to 2.5	Pass
	3.85	-4.964	-0.0070					-2.5 to 2.5	Pass			
	4.43	-7.153	-0.0100					-2.5 to 2.5	Pass			
	-30	3.85	-5.336				-0.0075	-2.5 to 2.5	Pass			
	-20	3.85	-7.367				-0.0103	-2.5 to 2.5	Pass			
	-10	3.85	-3.304				-0.0046	-2.5 to 2.5	Pass			
	0	3.85	-7.710				-0.0108	-2.5 to 2.5	Pass			
	10	3.85	-6.151				-0.0086	-2.5 to 2.5	Pass			
	30	3.85	-9.427				-0.0132	-2.5 to 2.5	Pass			
	40	3.85	-5.107				-0.0072	-2.5 to 2.5	Pass			
	50	3.85	-8.097				-0.0113	-2.5 to 2.5	Pass			
16QAM	701.5	25	0				20	3.27	-5.264	-0.0075	-2.5 to 2.5	Pass
								3.85	-5.679	-0.0081	-2.5 to 2.5	Pass
								4.43	-4.992	-0.0071	-2.5 to 2.5	Pass
							-30	3.85	-7.424	-0.0106	-2.5 to 2.5	Pass
				-20	3.85	-6.123	-0.0087	-2.5 to 2.5	Pass			
				-10	3.85	-10.214	-0.0146	-2.5 to 2.5	Pass			
				0	3.85	-7.124	-0.0102	-2.5 to 2.5	Pass			
				10	3.85	-7.467	-0.0106	-2.5 to 2.5	Pass			
				30	3.85	-5.493	-0.0078	-2.5 to 2.5	Pass			
				40	3.85	-3.605	-0.0051	-2.5 to 2.5	Pass			
				50	3.85	-9.942	-0.0142	-2.5 to 2.5	Pass			
				707.5	25	0	20	3.27	-5.722	-0.0081	-2.5 to 2.5	Pass
								3.85	-7.596	-0.0107	-2.5 to 2.5	Pass
								4.43	-7.882	-0.0111	-2.5 to 2.5	Pass
							-30	3.85	-8.783	-0.0124	-2.5 to 2.5	Pass
	-20	3.85	-4.277				-0.0060	-2.5 to 2.5	Pass			
	-10	3.85	-3.333				-0.0047	-2.5 to 2.5	Pass			
	0	3.85	-3.462				-0.0049	-2.5 to 2.5	Pass			
	10	3.85	-5.679				-0.0080	-2.5 to 2.5	Pass			
	30	3.85	-4.206				-0.0059	-2.5 to 2.5	Pass			
	40	3.85	-4.005				-0.0057	-2.5 to 2.5	Pass			
	50	3.85	-6.695				-0.0095	-2.5 to 2.5	Pass			
	713.5	25	0				20	3.27	-5.207	-0.0073	-2.5 to 2.5	Pass
								3.85	-6.623	-0.0093	-2.5 to 2.5	Pass
								4.43	-8.440	-0.0118	-2.5 to 2.5	Pass
-30							3.85	-6.266	-0.0088	-2.5 to 2.5	Pass	
-20				3.85	-7.725	-0.0108	-2.5 to 2.5	Pass				
-10				3.85	-7.911	-0.0111	-2.5 to 2.5	Pass				
0				3.85	-3.147	-0.0044	-2.5 to 2.5	Pass				
10				3.85	-7.753	-0.0109	-2.5 to 2.5	Pass				



				30	3.85	-11.158	-0.0156	-2.5 to 2.5	Pass
				40	3.85	-8.469	-0.0119	-2.5 to 2.5	Pass
				50	3.85	-6.166	-0.0086	-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	-8.755	-0.0124	-2.5 to 2.5	Pass
					3.85	-6.366	-0.0090	-2.5 to 2.5	Pass
					4.43	-8.168	-0.0116	-2.5 to 2.5	Pass
				-30	3.85	-6.080	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-5.279	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-5.808	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-5.693	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-5.350	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-4.077	-0.0058	-2.5 to 2.5	Pass
				40	3.85	-8.798	-0.0125	-2.5 to 2.5	Pass
	50	3.85	-5.765	-0.0082	-2.5 to 2.5	Pass			
	707.5	50	0	20	3.27	-8.712	-0.0123	-2.5 to 2.5	Pass
					3.85	-7.439	-0.0105	-2.5 to 2.5	Pass
					4.43	-4.091	-0.0058	-2.5 to 2.5	Pass
				-30	3.85	-5.150	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-7.052	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-7.167	-0.0101	-2.5 to 2.5	Pass
				0	3.85	-6.738	-0.0095	-2.5 to 2.5	Pass
				10	3.85	-7.482	-0.0106	-2.5 to 2.5	Pass
				30	3.85	-7.739	-0.0109	-2.5 to 2.5	Pass
				40	3.85	-5.221	-0.0074	-2.5 to 2.5	Pass
	50	3.85	-7.968	-0.0113	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	-5.922	-0.0083	-2.5 to 2.5	Pass
					3.85	-6.166	-0.0087	-2.5 to 2.5	Pass
					4.43	-5.493	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-5.121	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-5.379	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-6.924	-0.0097	-2.5 to 2.5	Pass
				0	3.85	-4.306	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-7.081	-0.0100	-2.5 to 2.5	Pass
30				3.85	-3.605	-0.0051	-2.5 to 2.5	Pass	
40				3.85	-8.225	-0.0116	-2.5 to 2.5	Pass	
50	3.85	-4.420	-0.0062	-2.5 to 2.5	Pass				
16QAM	704	50	0	20	3.27	-4.048	-0.0058	-2.5 to 2.5	Pass
					3.85	-6.337	-0.0090	-2.5 to 2.5	Pass
					4.43	-5.393	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-8.898	-0.0126	-2.5 to 2.5	Pass
				-20	3.85	-3.948	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-5.822	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-4.778	-0.0068	-2.5 to 2.5	Pass
10	3.85	-5.836	-0.0083	-2.5 to 2.5	Pass				

	707.5	50	0	30	3.85	-7.882	-0.0112	-2.5 to 2.5	Pass
				40	3.85	-6.251	-0.0089	-2.5 to 2.5	Pass
				50	3.85	-9.670	-0.0137	-2.5 to 2.5	Pass
				20	3.27	-7.496	-0.0106	-2.5 to 2.5	Pass
					3.85	-3.161	-0.0045	-2.5 to 2.5	Pass
					4.43	-2.718	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-4.120	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-2.489	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-3.376	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-1.960	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-4.649	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-4.206	-0.0059	-2.5 to 2.5	Pass
				50	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass
				711	50	0	20	3.27	-7.496
	3.85	-7.281	-0.0102					-2.5 to 2.5	Pass
	4.43	-3.476	-0.0049					-2.5 to 2.5	Pass
	-30	3.85	-4.363				-0.0061	-2.5 to 2.5	Pass
	-20	3.85	-4.206				-0.0059	-2.5 to 2.5	Pass
	-10	3.85	-5.665				-0.0080	-2.5 to 2.5	Pass
	0	3.85	-5.536				-0.0078	-2.5 to 2.5	Pass
	10	3.85	-7.253				-0.0102	-2.5 to 2.5	Pass
	30	3.85	-5.808				-0.0082	-2.5 to 2.5	Pass
	40	3.85	-6.266				-0.0088	-2.5 to 2.5	Pass
50	3.85	-7.725	-0.0109				-2.5 to 2.5	Pass	

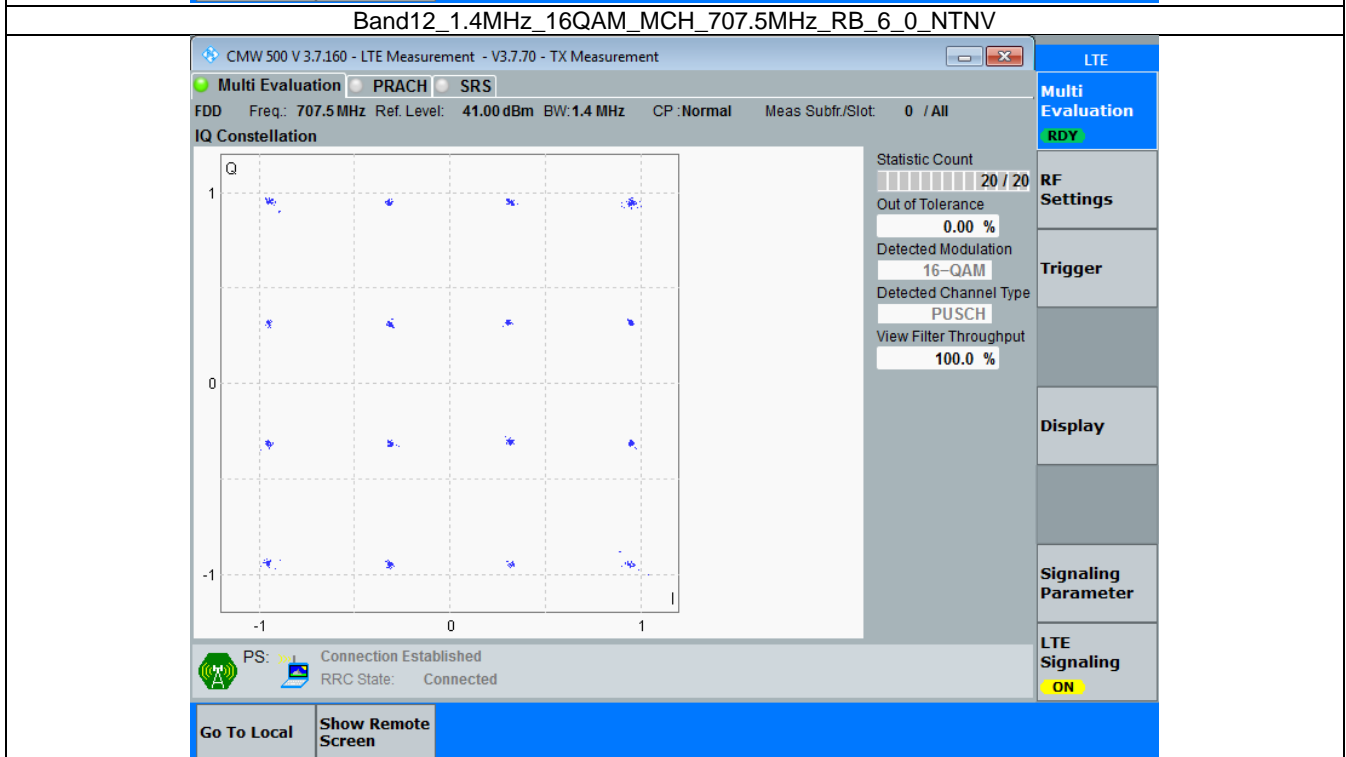
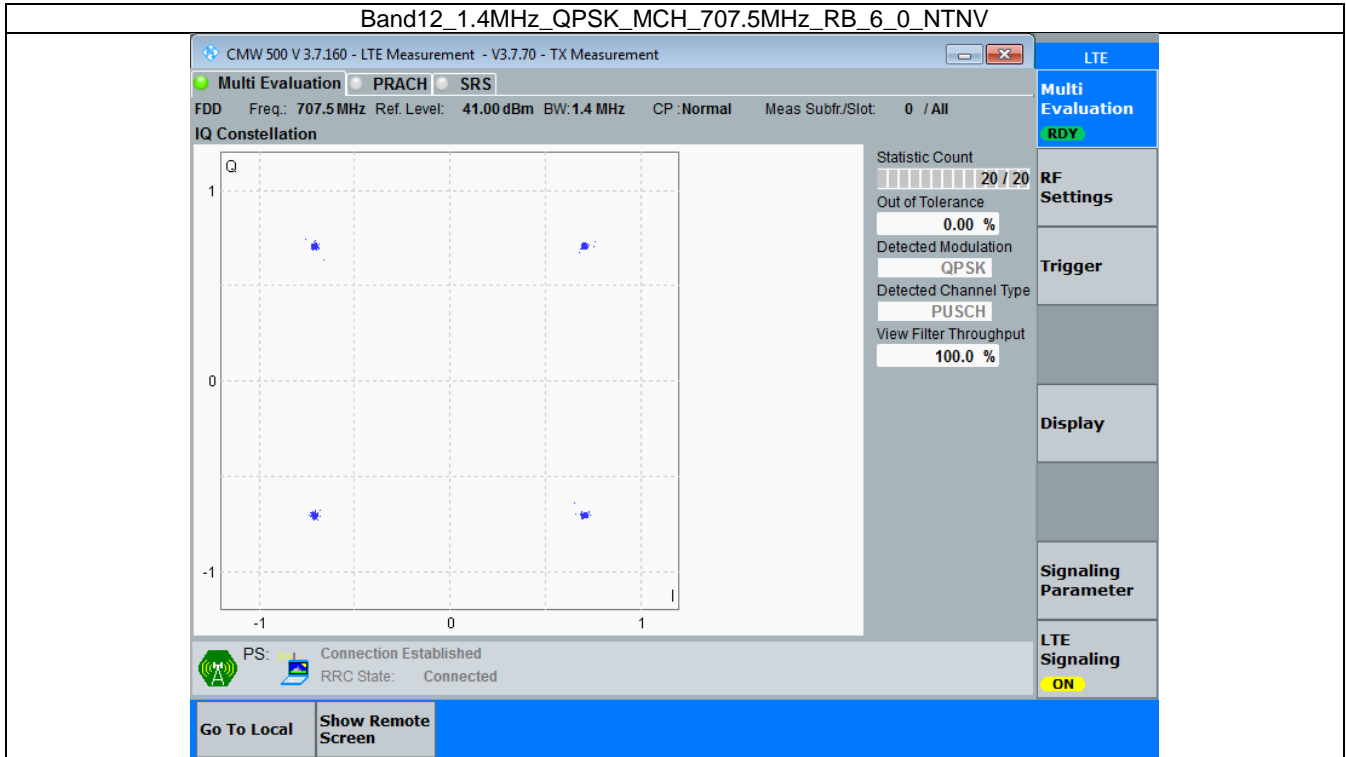
### 3. Modulation Characteristics

#### 3.1 B12\_1.4MHz

##### 3.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTV						
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

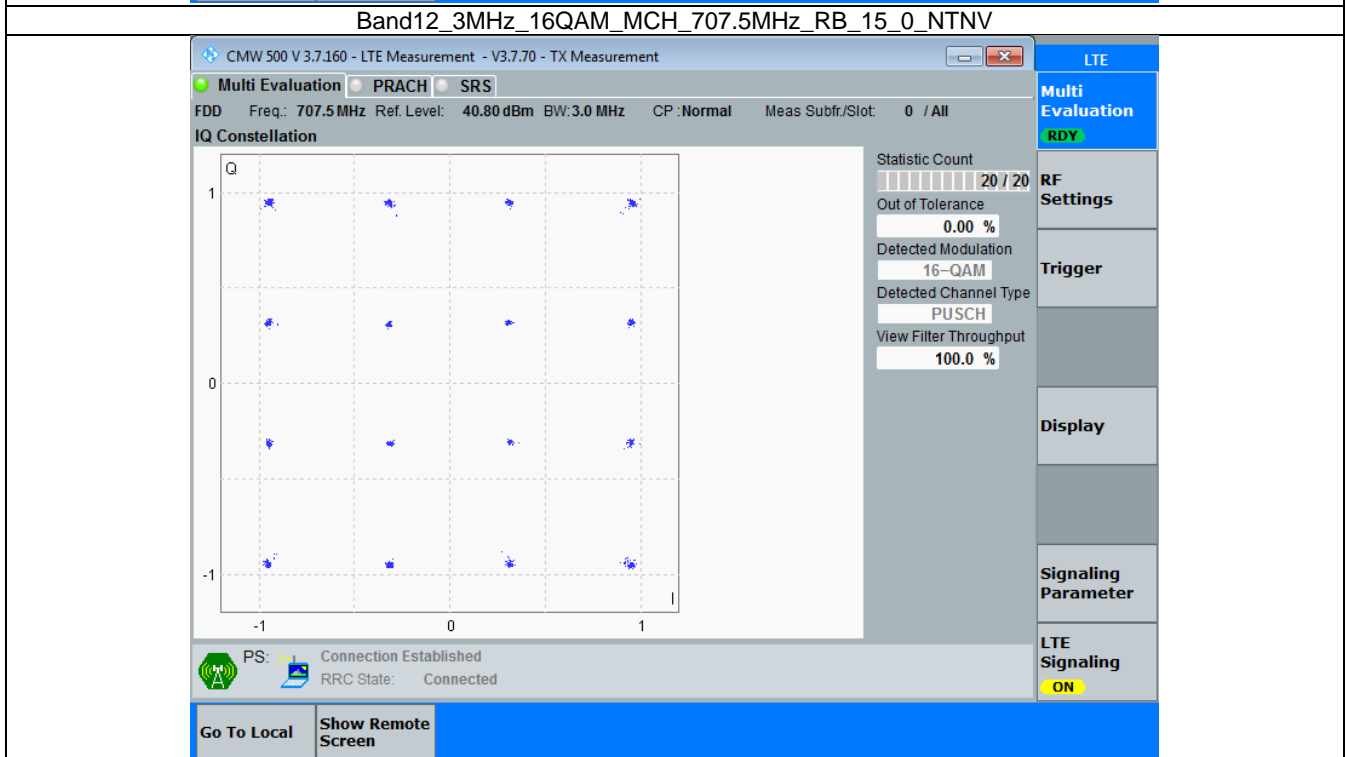
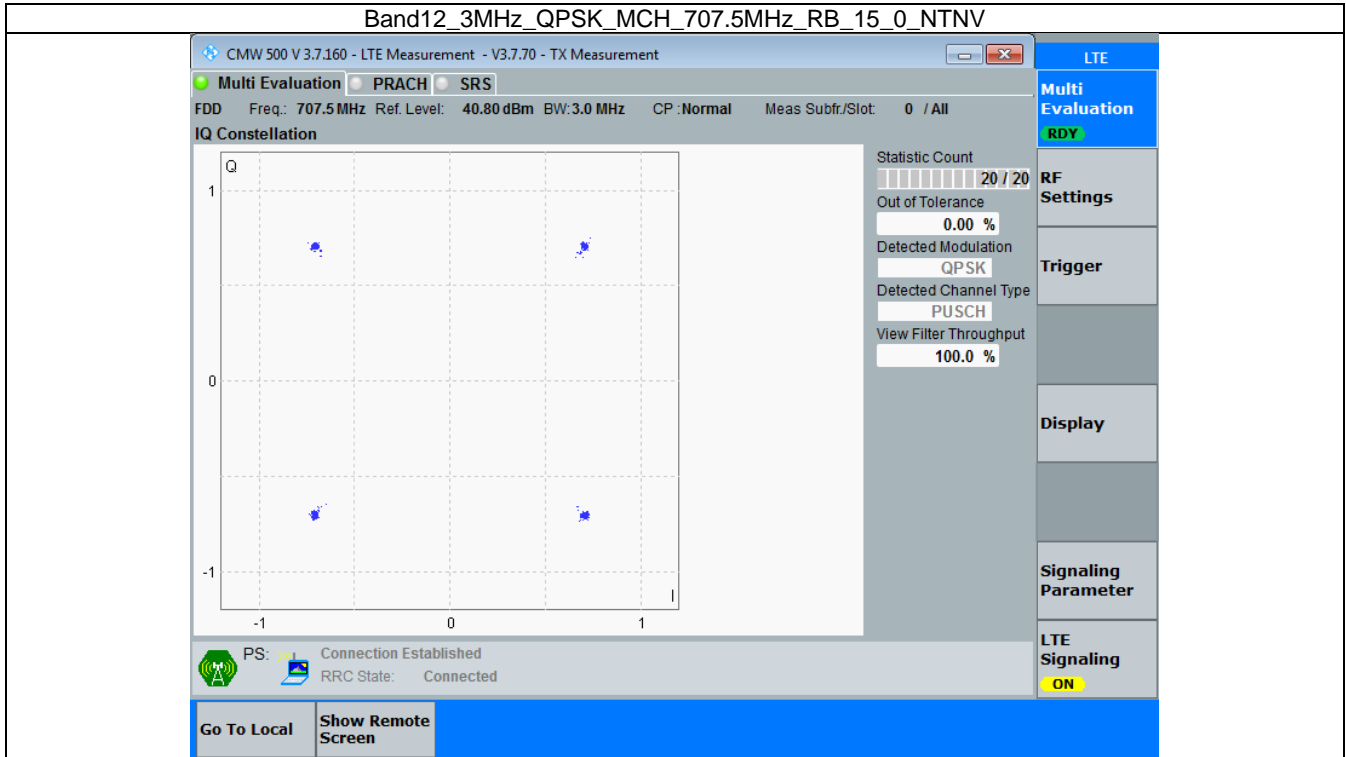


### 3.2 B12\_3MHz

#### 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

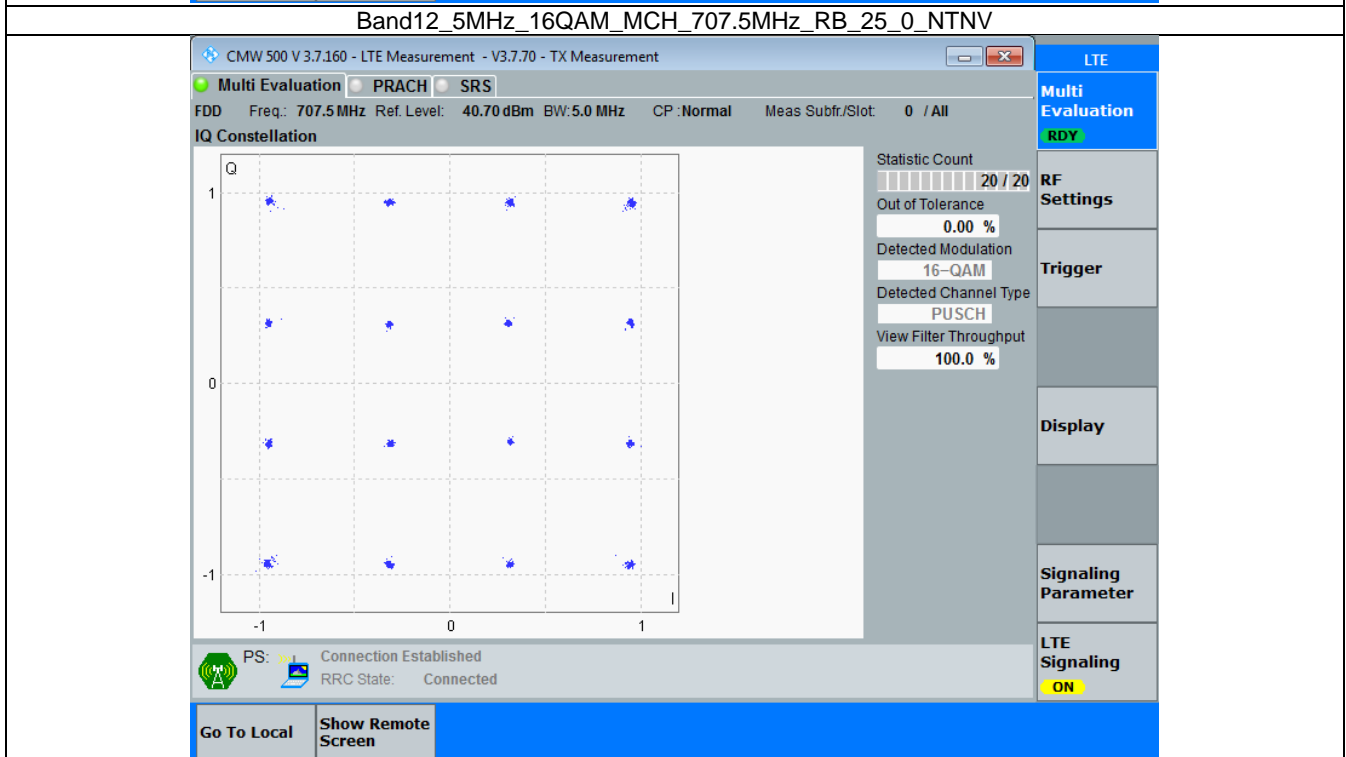
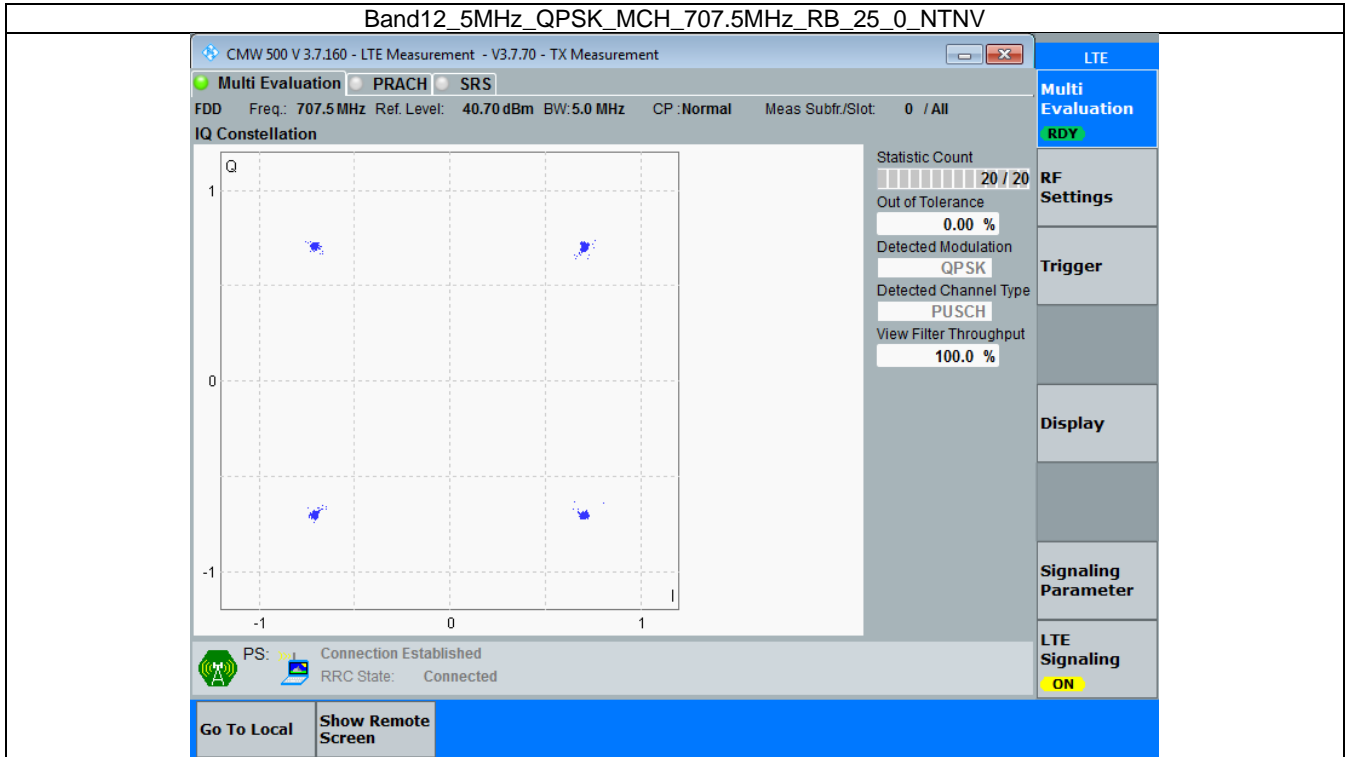


### 3.3 B12\_5MHz

#### 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



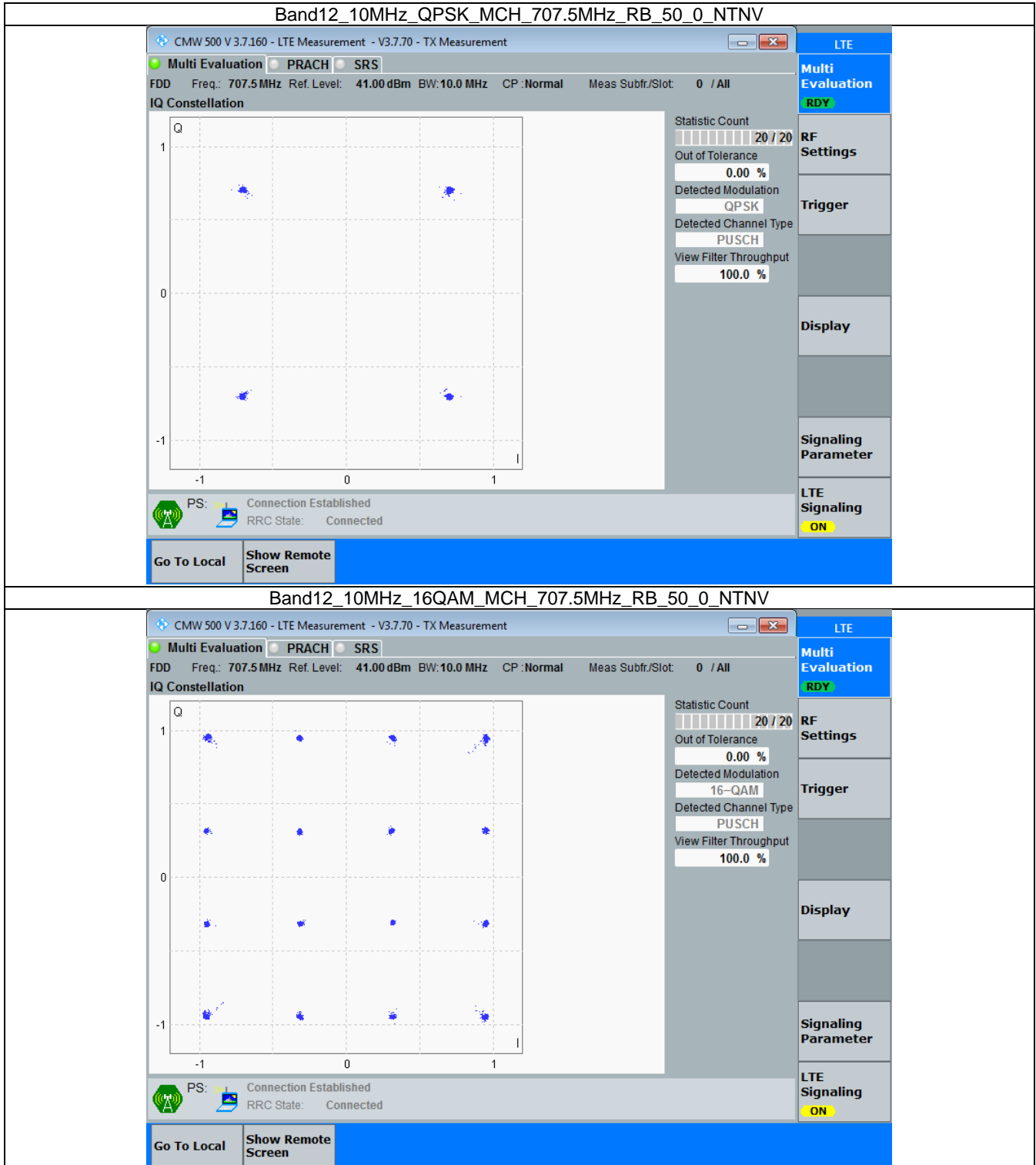
### 3.4 B12\_10MHz

#### 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



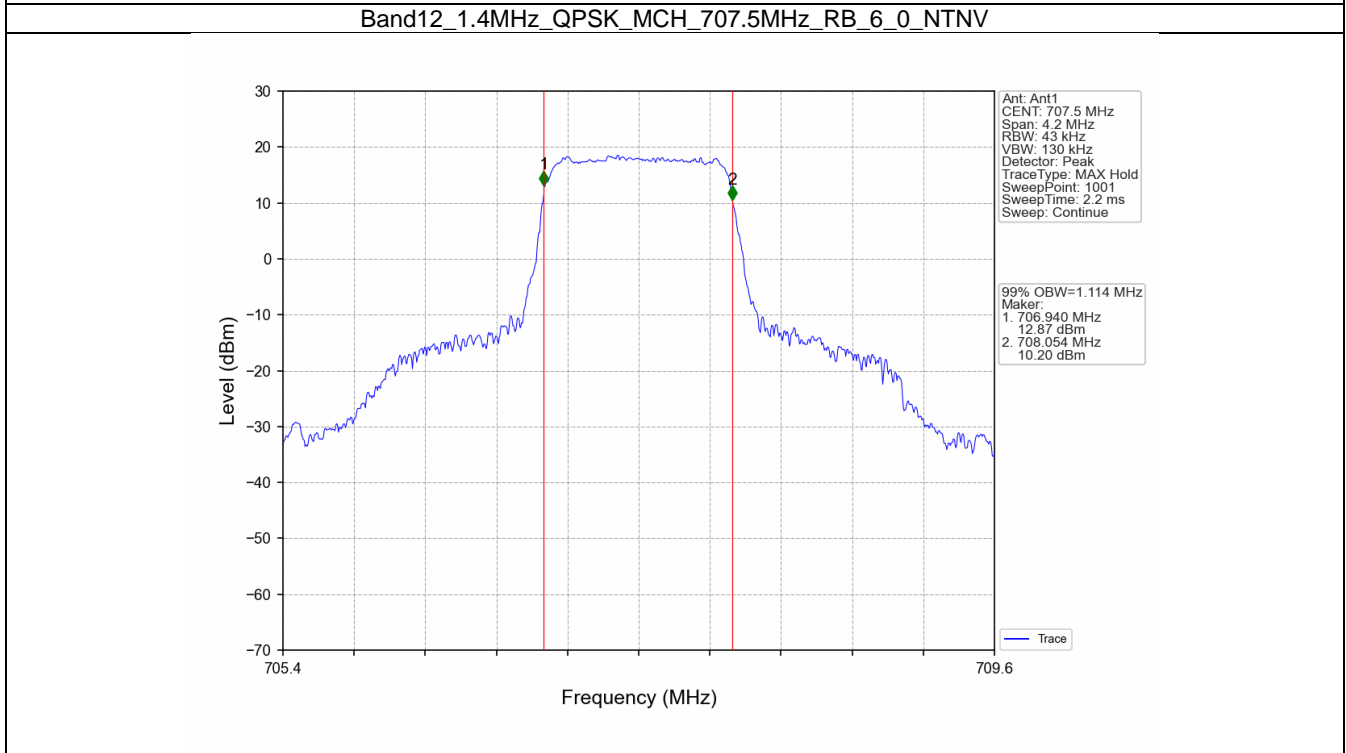
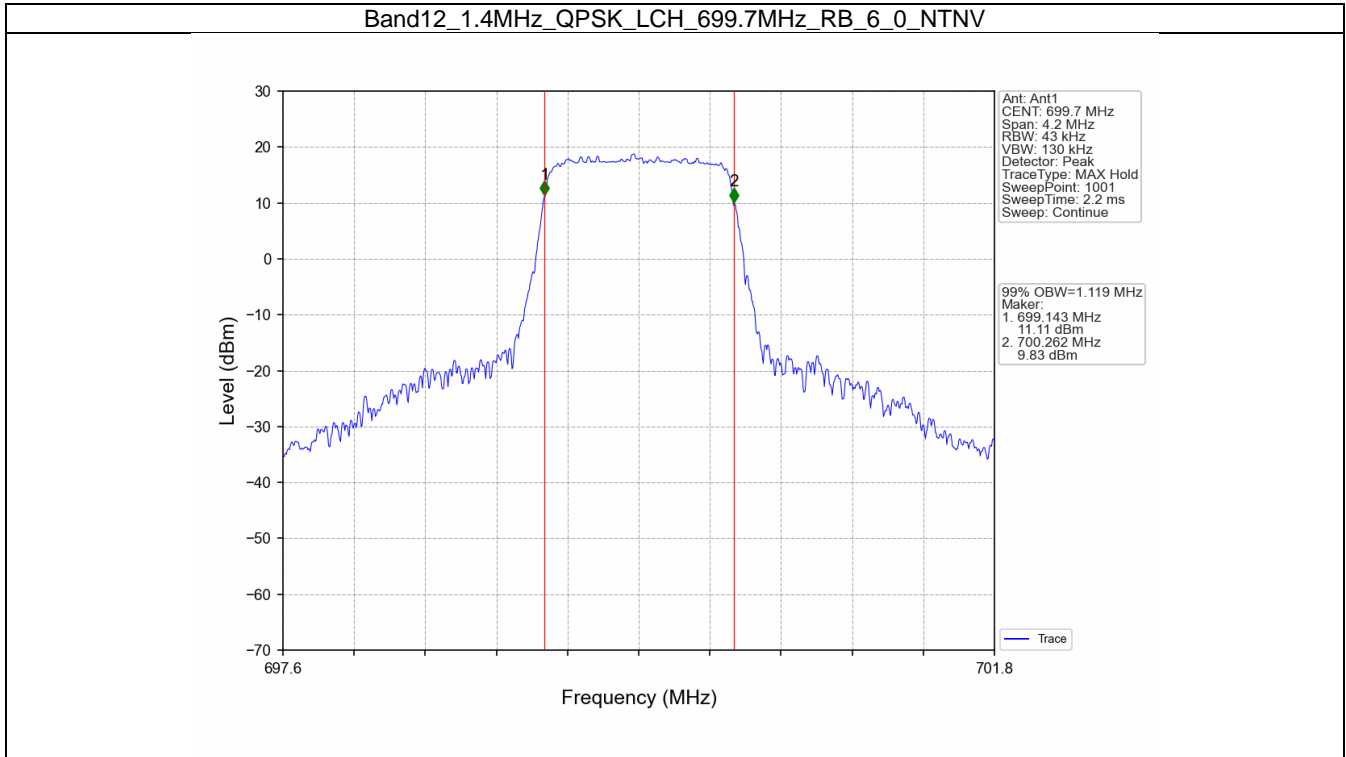
## 4. 99% & 26dB Bandwidth

### 4.1 Band12\_OBW

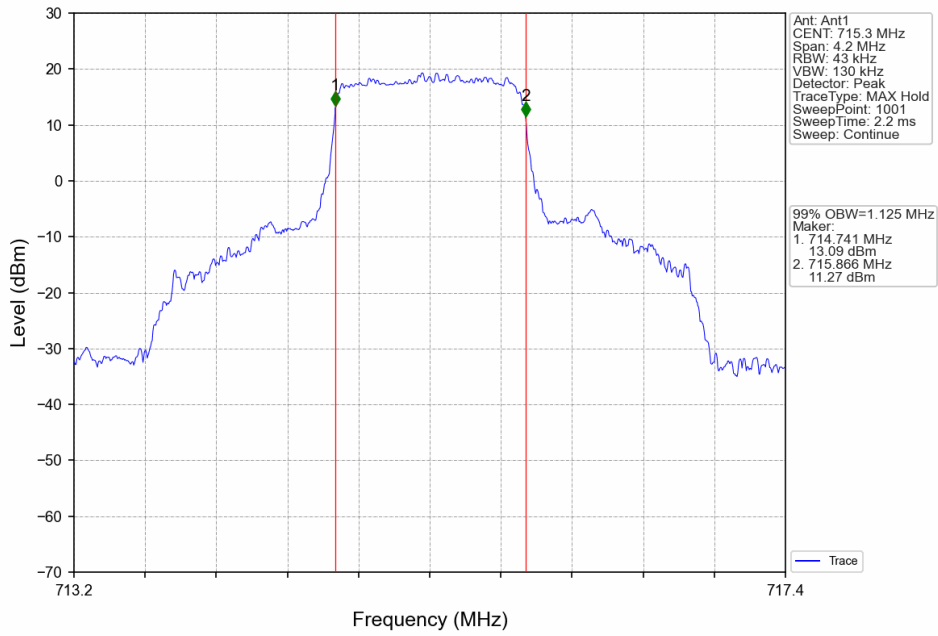
#### 4.1.1 Test Result

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	1.119	Pass
		707.5	6	0	1.114	Pass
		715.3	6	0	1.125	Pass
	16QAM	699.7	6	0	1.102	Pass
		707.5	6	0	1.116	Pass
		715.3	6	0	1.114	Pass
3	QPSK	700.5	15	0	2.722	Pass
		707.5	15	0	2.732	Pass
		714.5	15	0	2.732	Pass
	16QAM	700.5	15	0	2.722	Pass
		707.5	15	0	2.727	Pass
		714.5	15	0	2.731	Pass
5	QPSK	701.5	25	0	4.570	Pass
		707.5	25	0	4.551	Pass
		713.5	25	0	4.594	Pass
	16QAM	701.5	25	0	4.592	Pass
		707.5	25	0	4.571	Pass
		713.5	25	0	4.576	Pass
10	QPSK	704	50	0	9.101	Pass
		707.5	50	0	9.004	Pass
		711	50	0	9.152	Pass
	16QAM	704	50	0	9.064	Pass
		707.5	50	0	8.992	Pass
		711	50	0	9.148	Pass

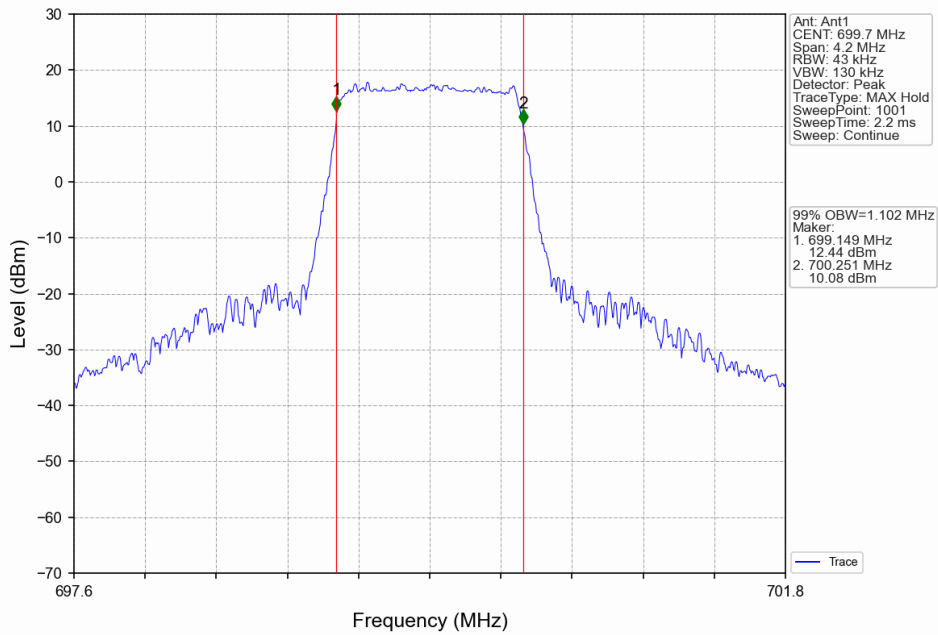
### 4.1.2 Test Graph



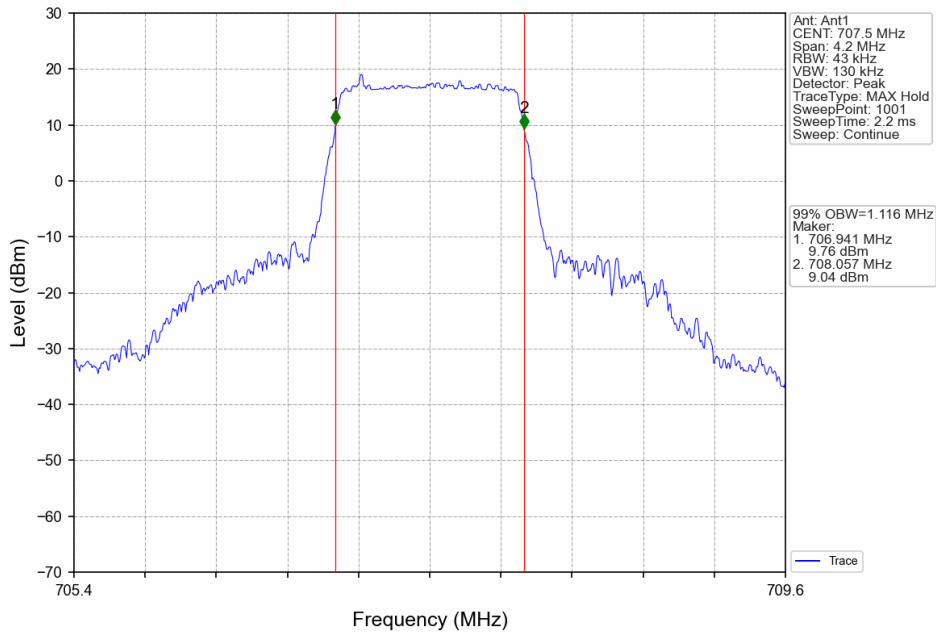
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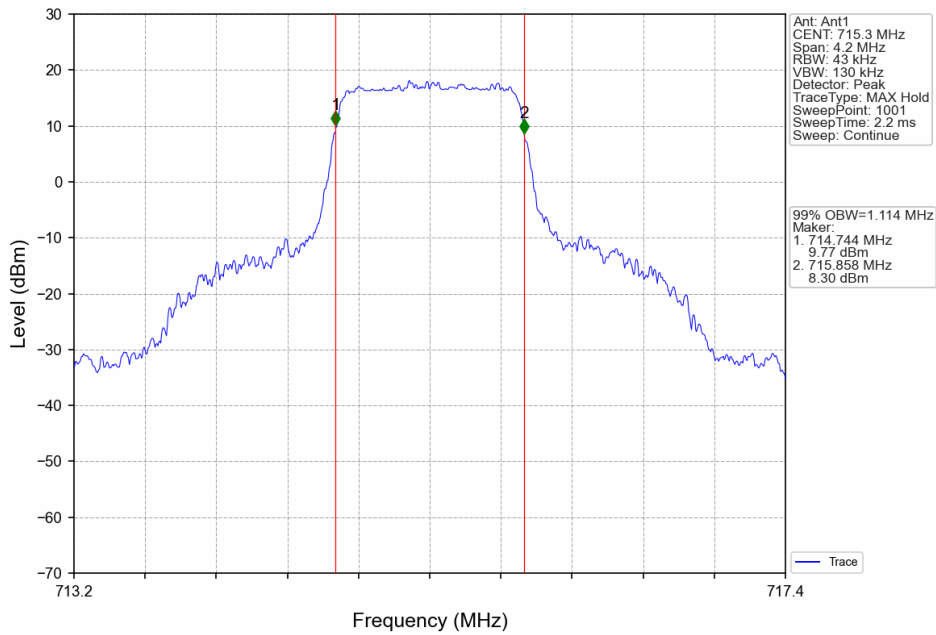
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



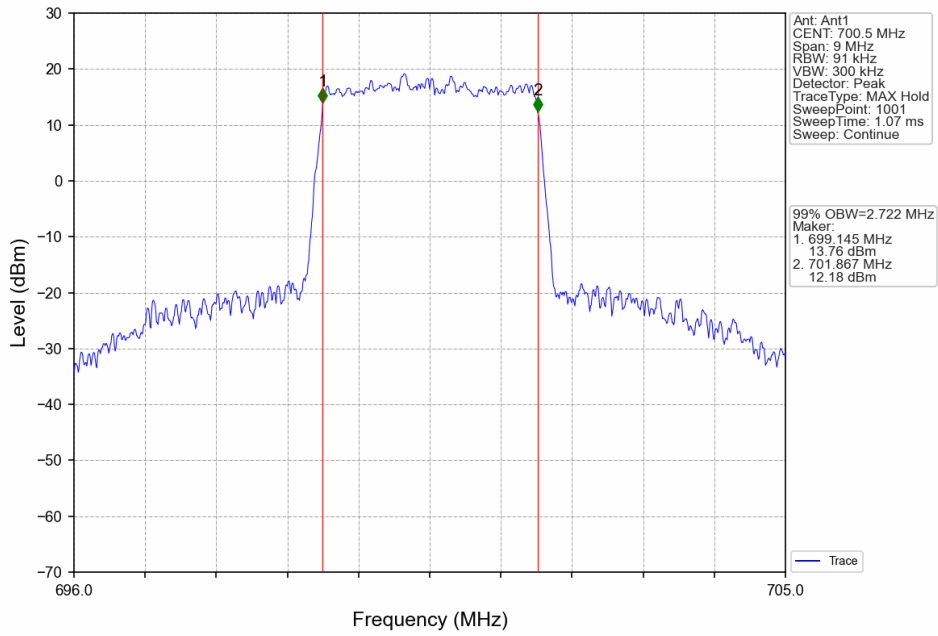
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



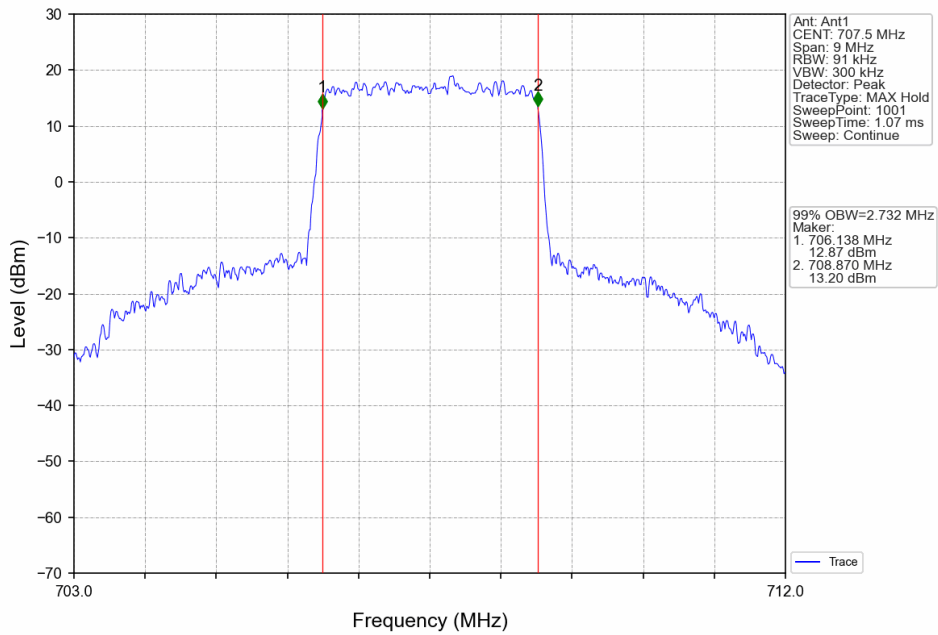
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



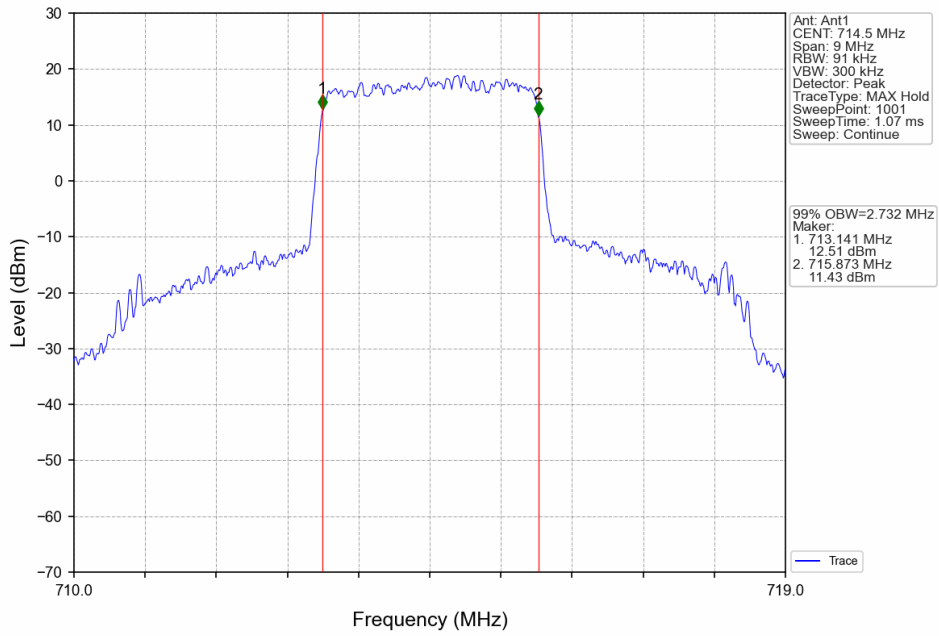
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



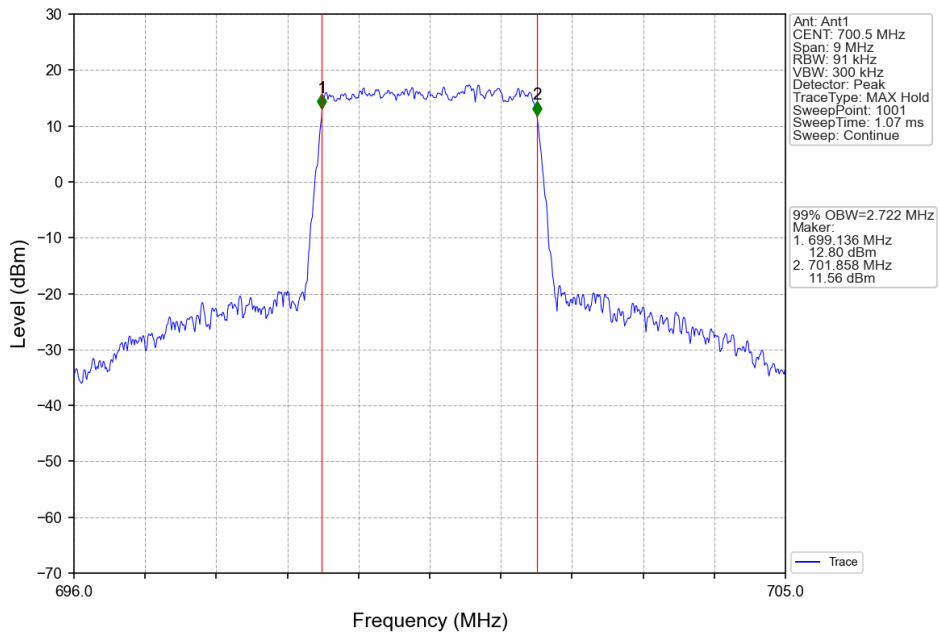
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



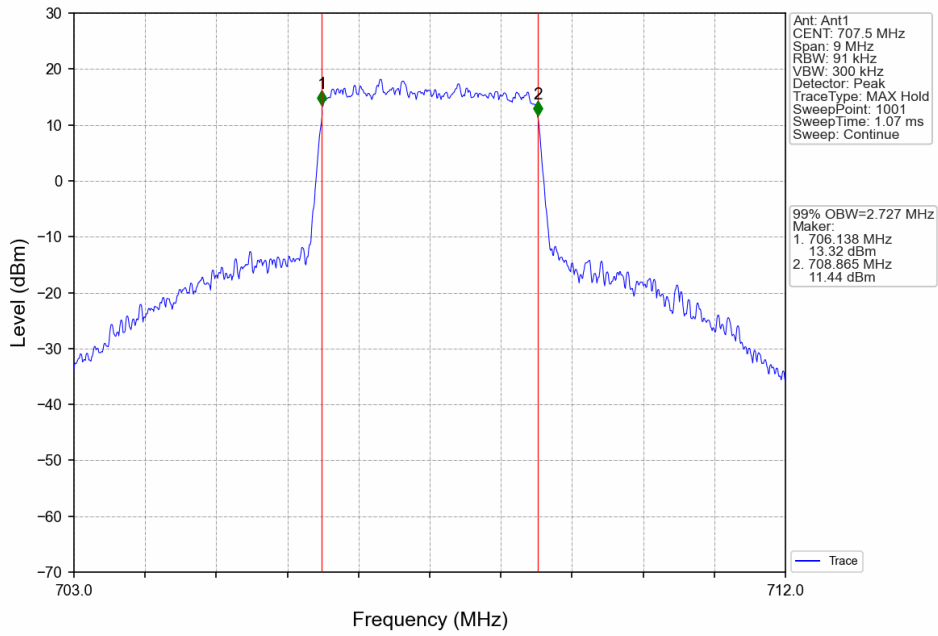
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



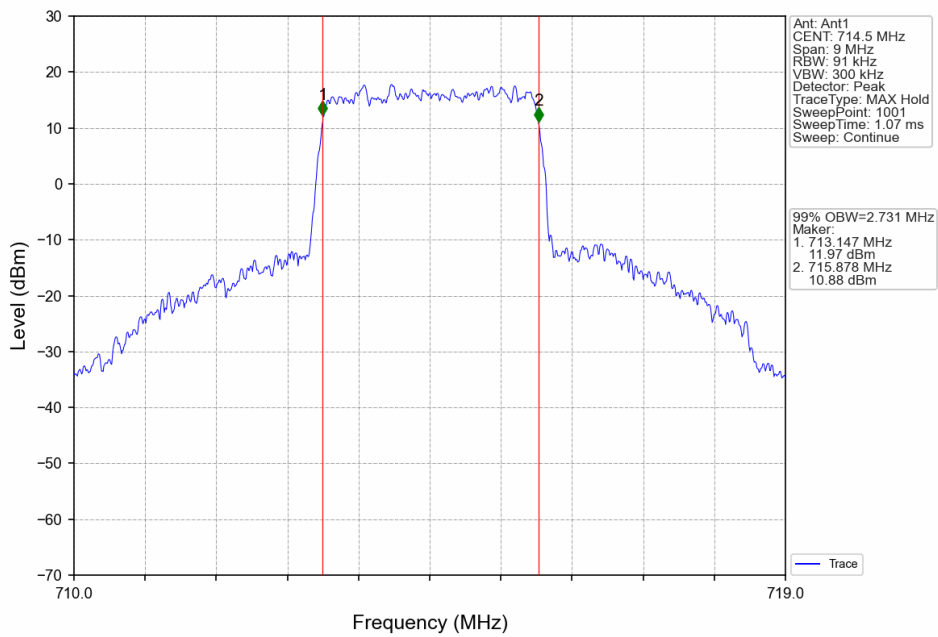
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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

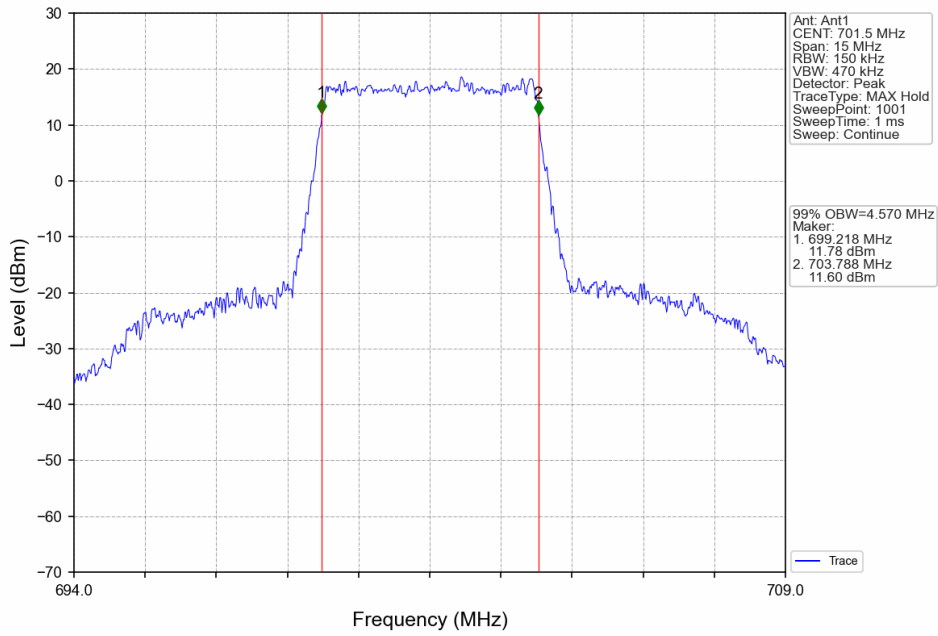


Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

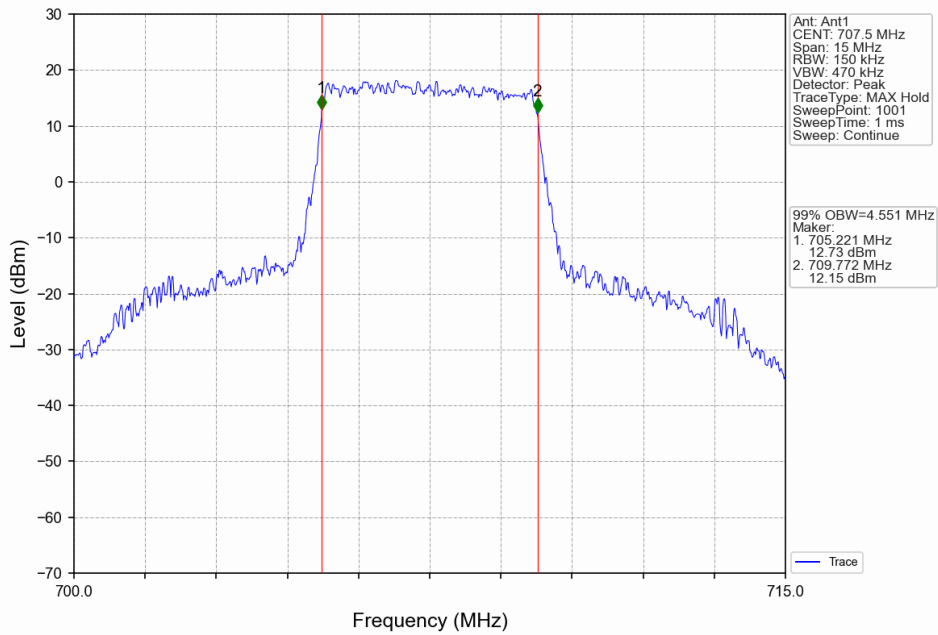




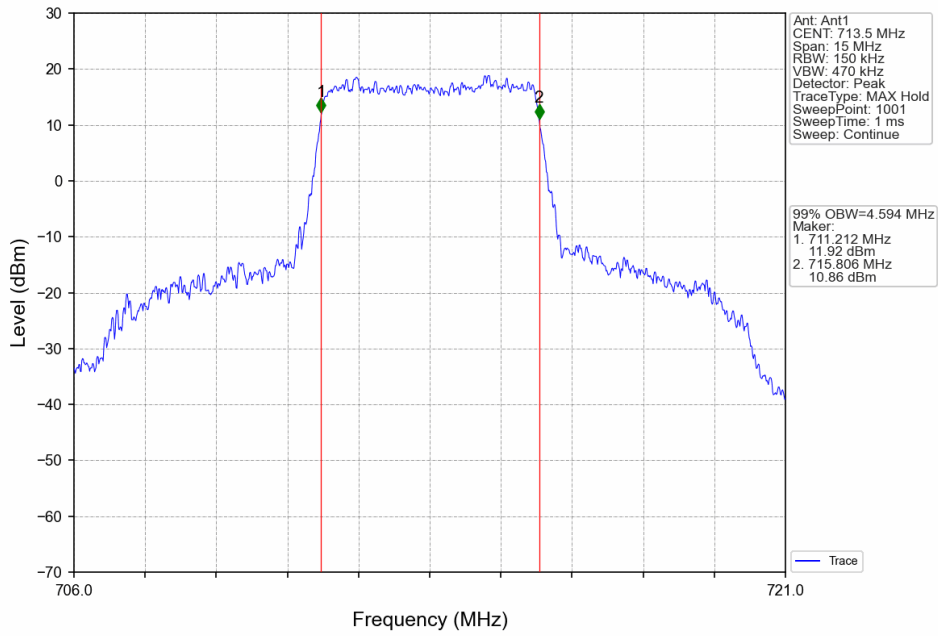
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



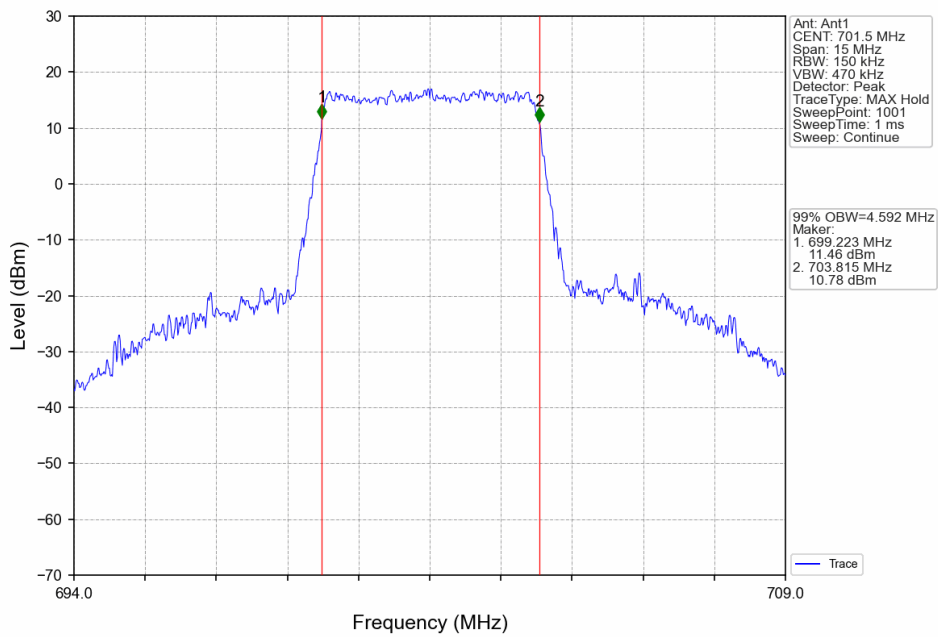
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



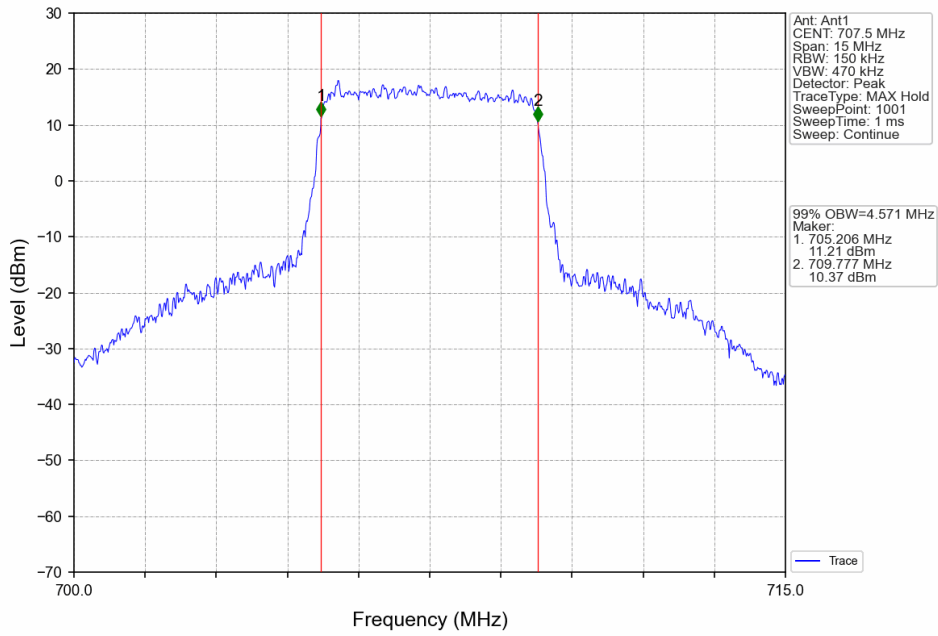
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



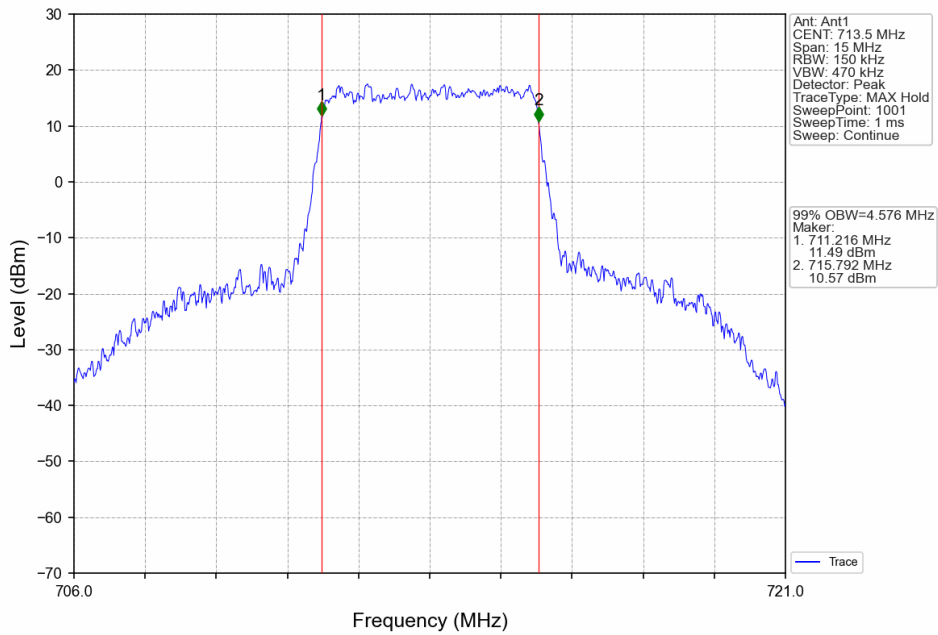
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



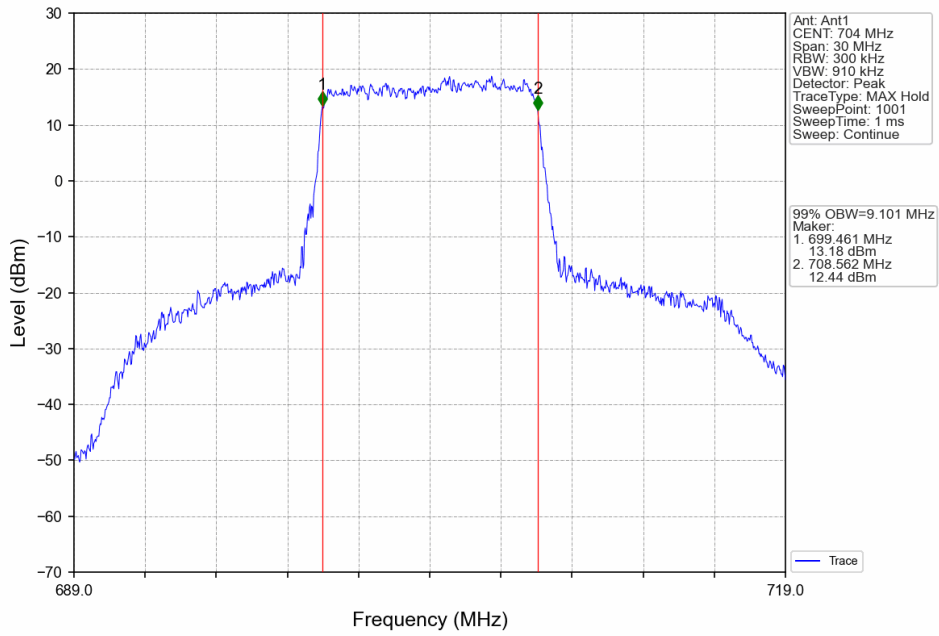
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



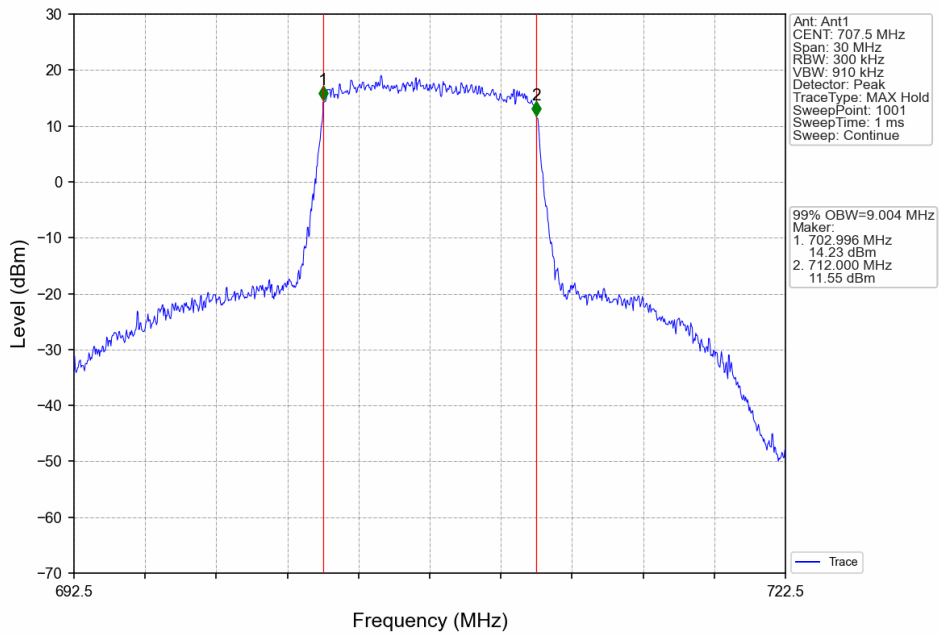
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



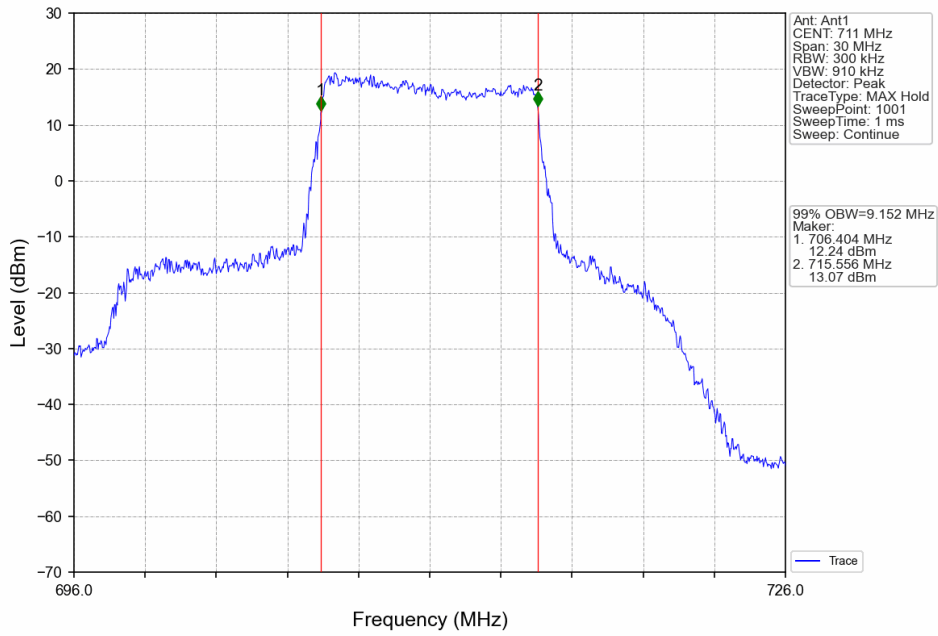
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



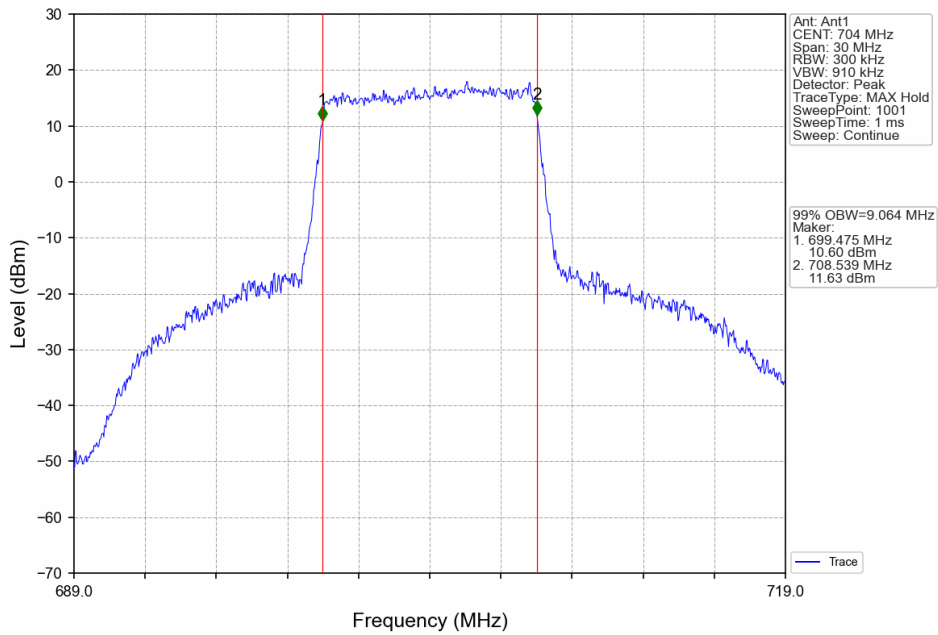
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



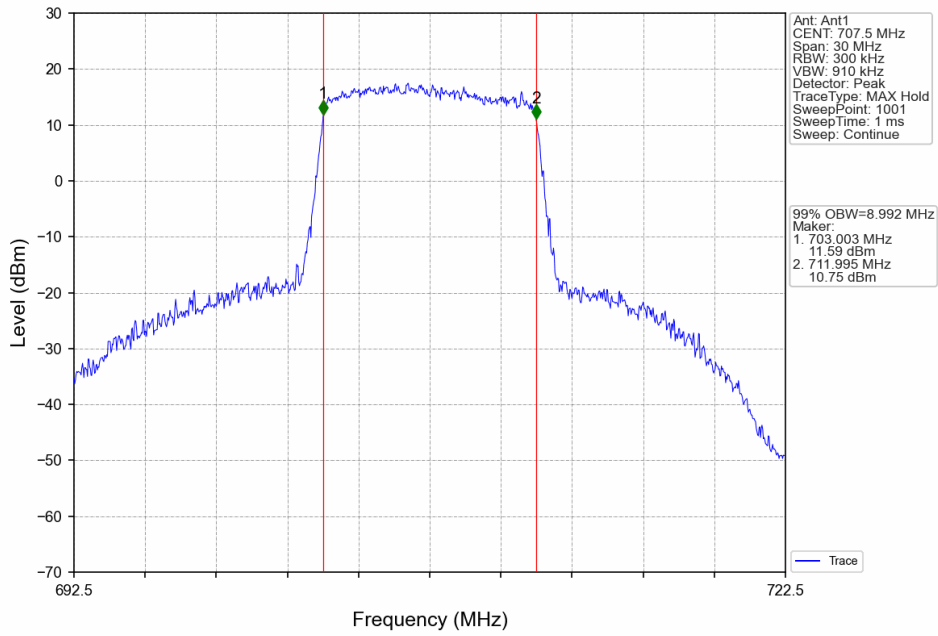
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



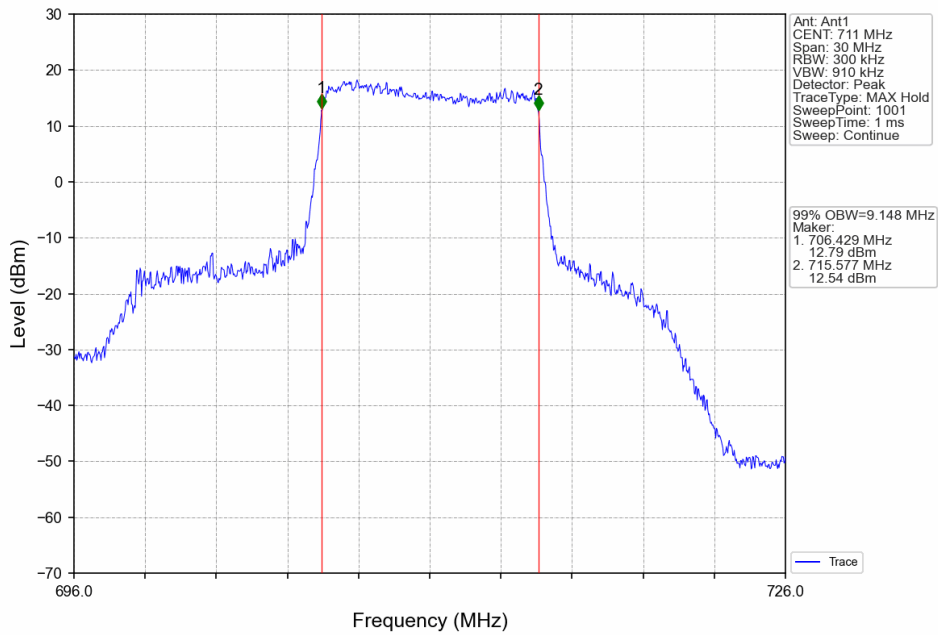
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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

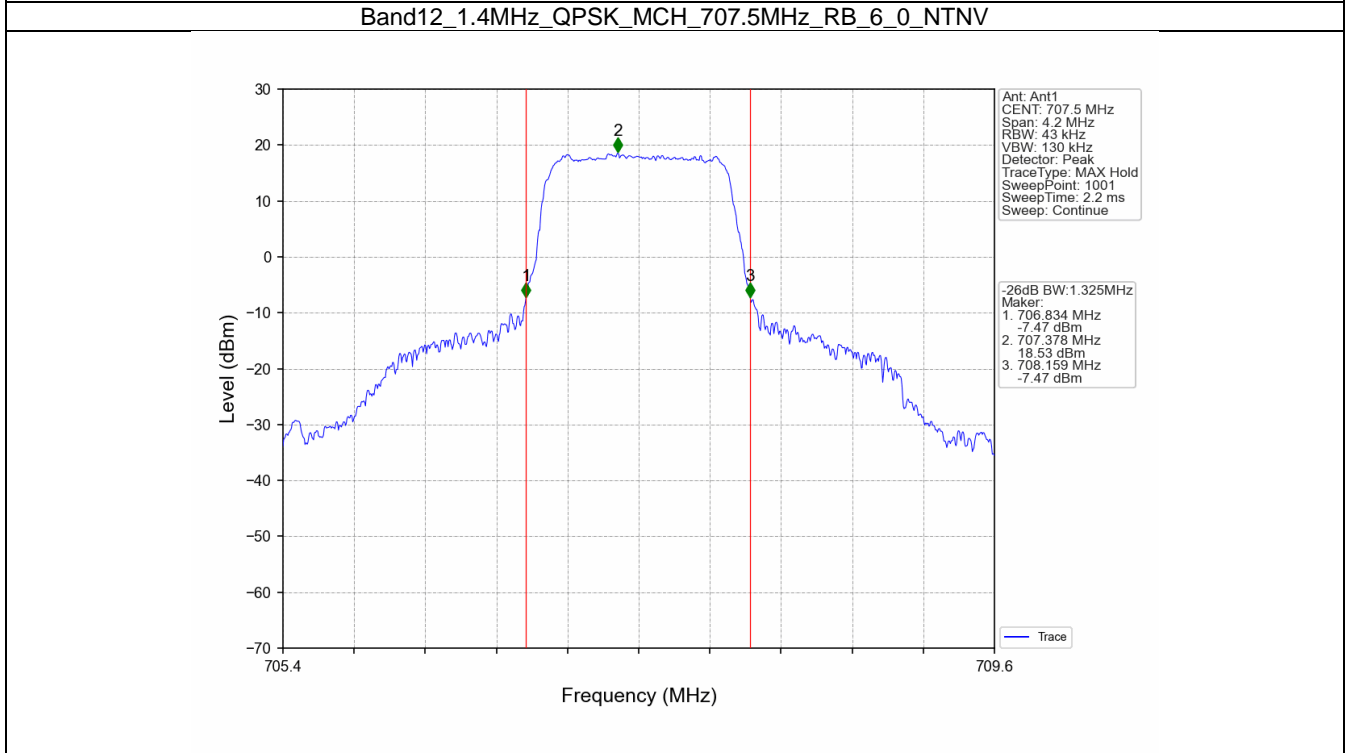
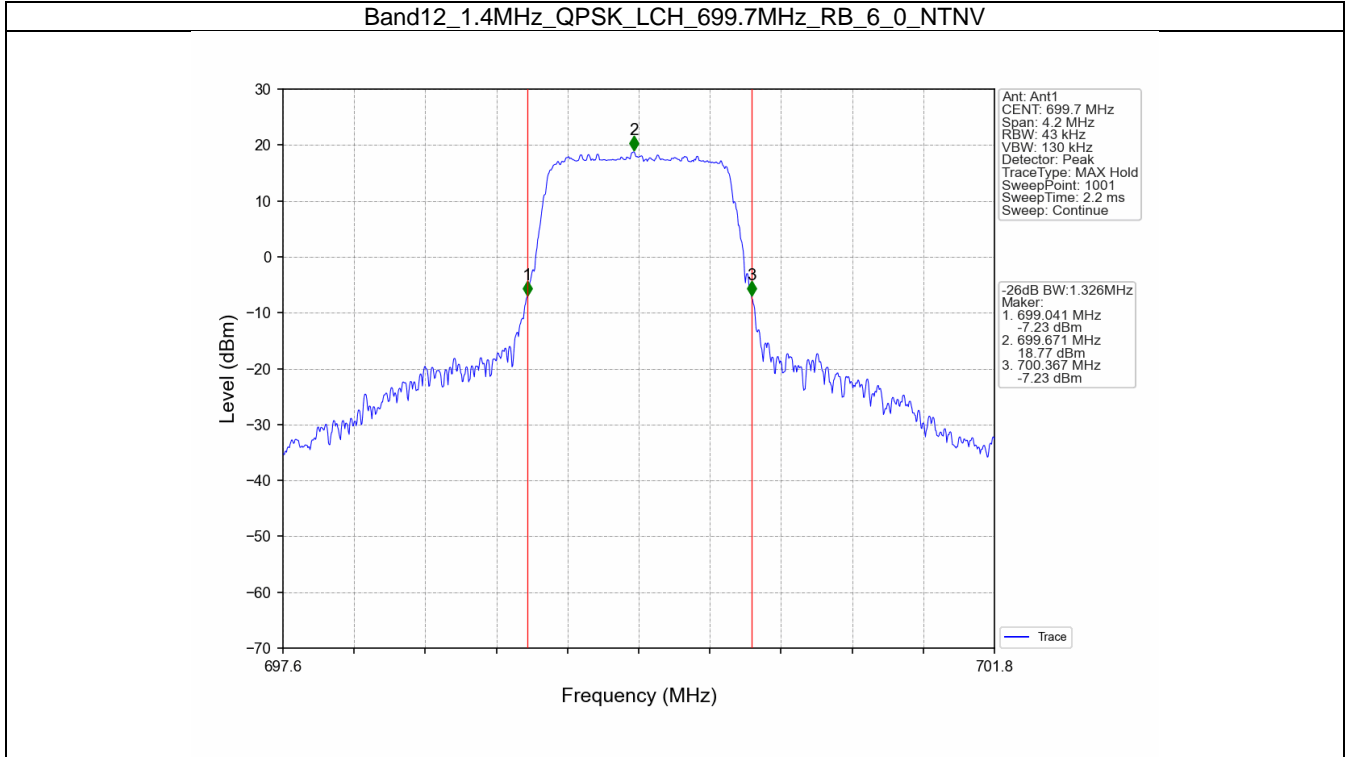


## 4.2 Band12\_XDB

### 4.2.1 Test Result

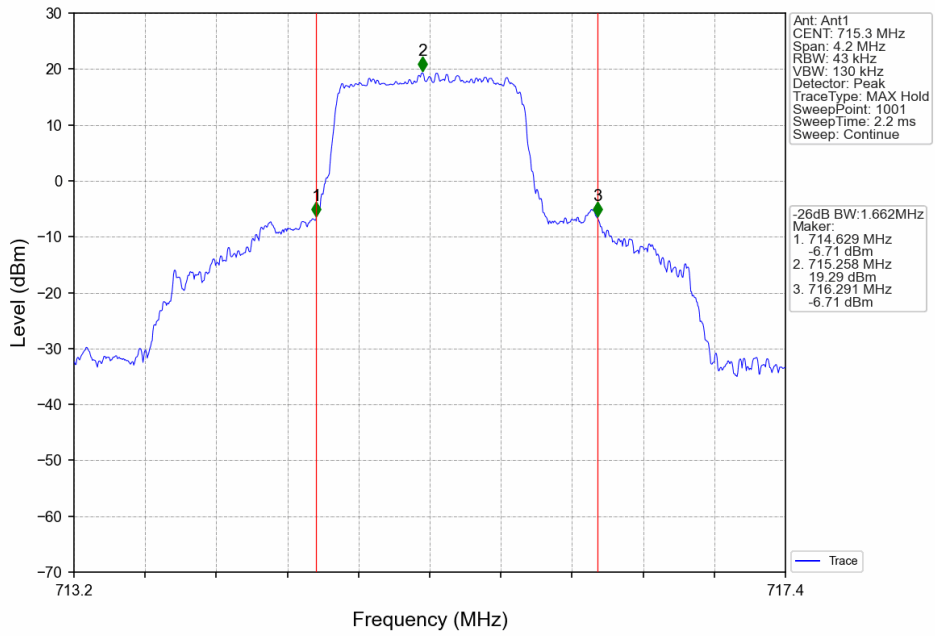
Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.326	Pass
		707.5	6	0	1.325	Pass
		715.3	6	0	1.662	Pass
	16QAM	699.7	6	0	1.296	Pass
		707.5	6	0	1.303	Pass
		715.3	6	0	1.370	Pass
3	QPSK	700.5	15	0	2.986	Pass
		707.5	15	0	2.988	Pass
		714.5	15	0	3.009	Pass
	16QAM	700.5	15	0	3.008	Pass
		707.5	15	0	2.984	Pass
		714.5	15	0	2.995	Pass
5	QPSK	701.5	25	0	5.252	Pass
		707.5	25	0	5.231	Pass
		713.5	25	0	5.257	Pass
	16QAM	701.5	25	0	5.298	Pass
		707.5	25	0	5.243	Pass
		713.5	25	0	5.318	Pass
10	QPSK	704	50	0	10.306	Pass
		707.5	50	0	10.034	Pass
		711	50	0	10.383	Pass
	16QAM	704	50	0	10.152	Pass
		707.5	50	0	10.167	Pass
		711	50	0	10.294	Pass

### 4.2.2 Test Graph

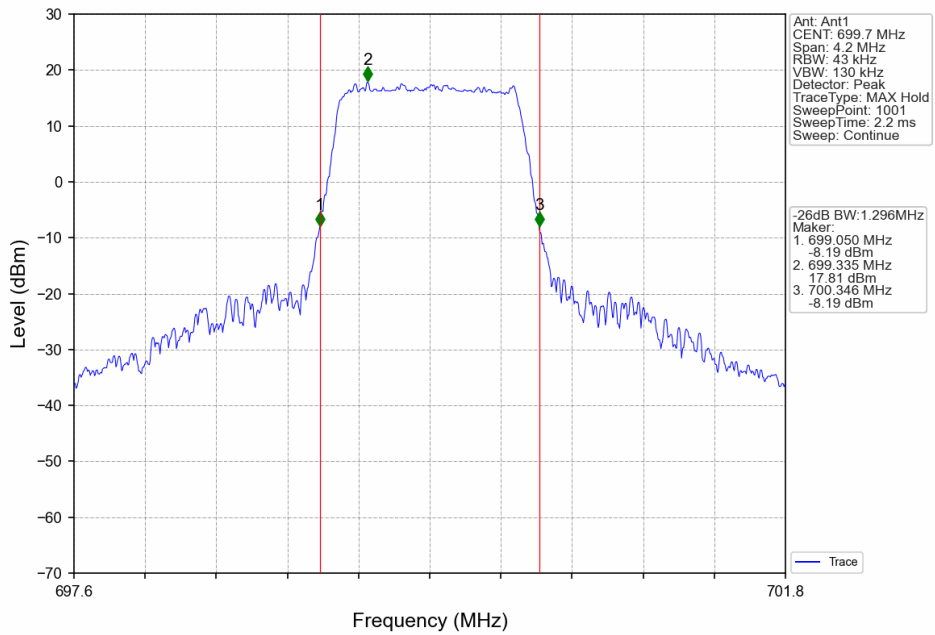




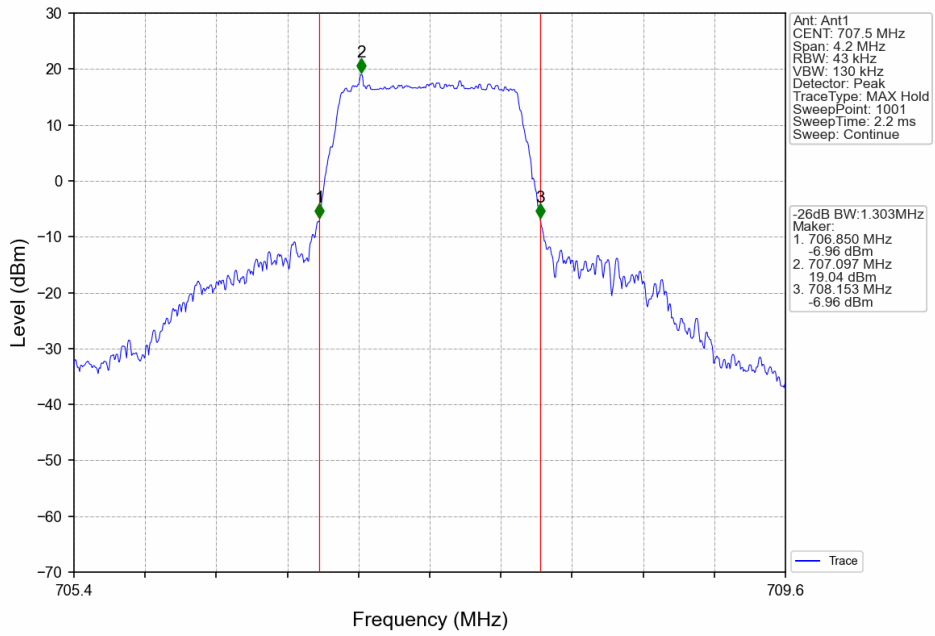
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



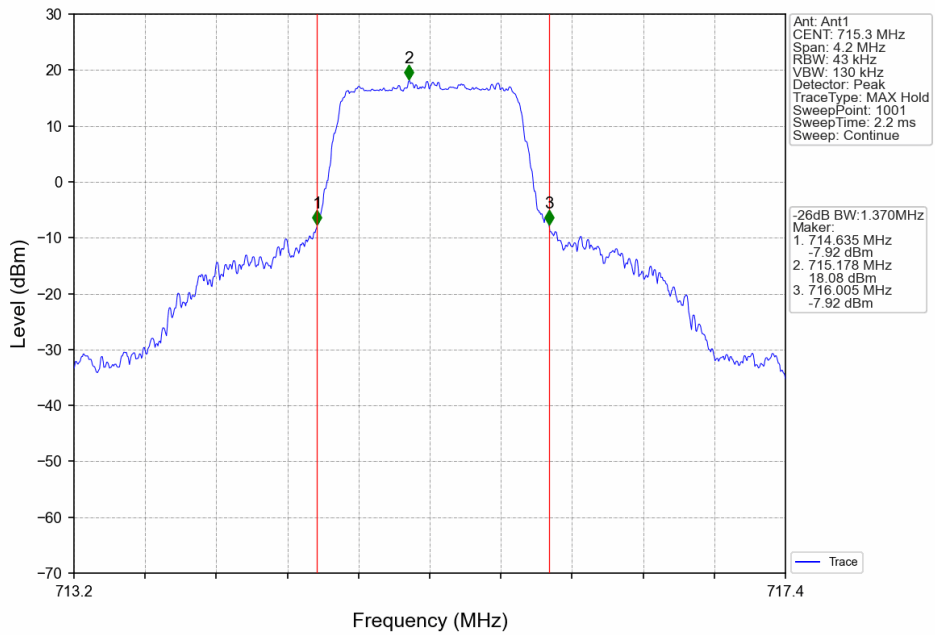
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



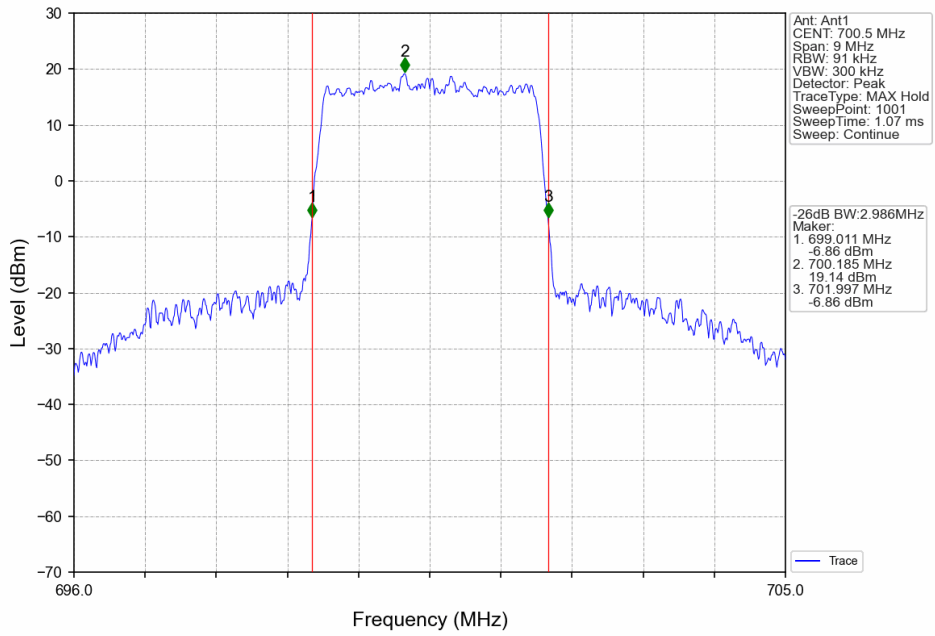
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



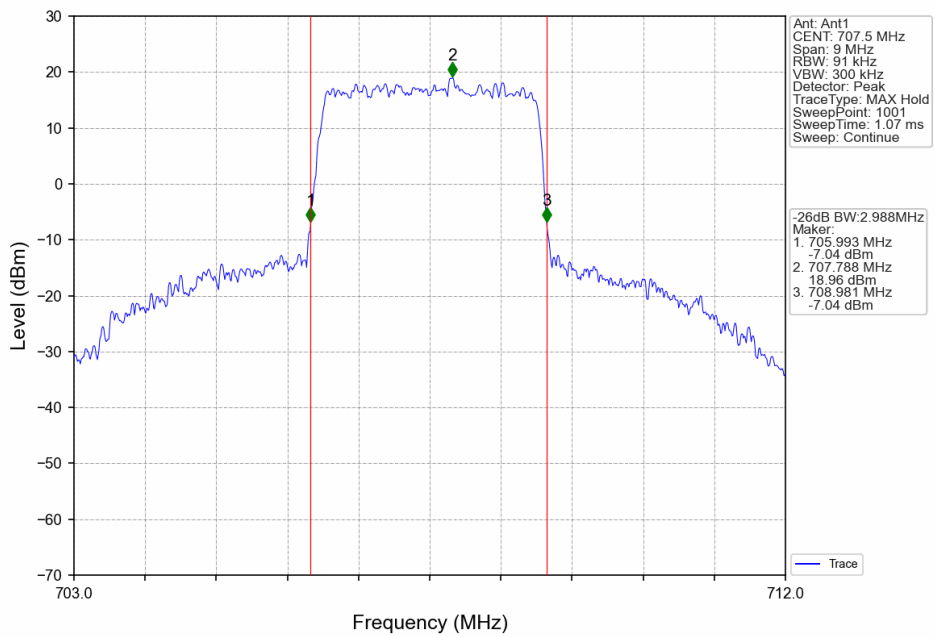
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



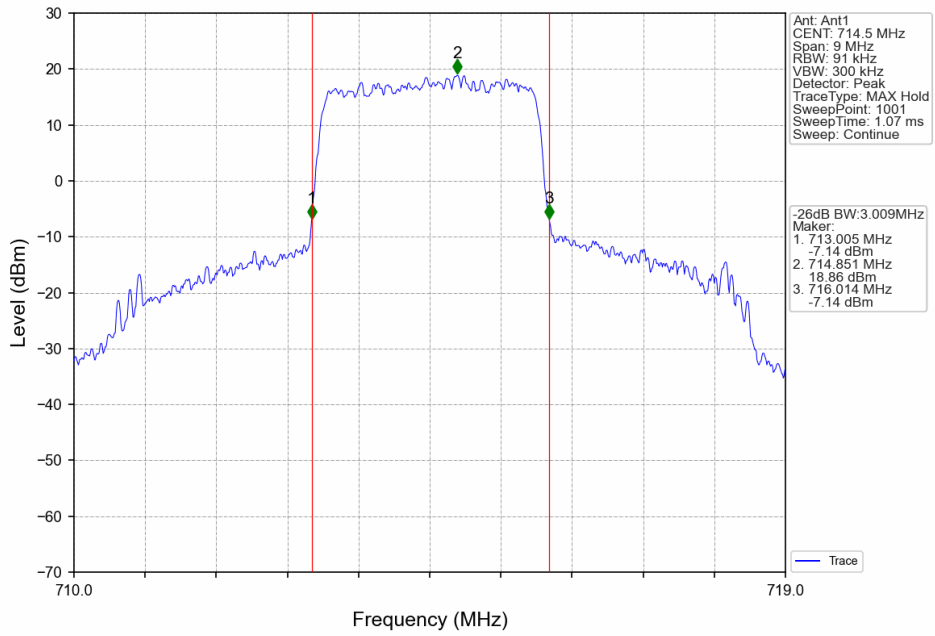
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



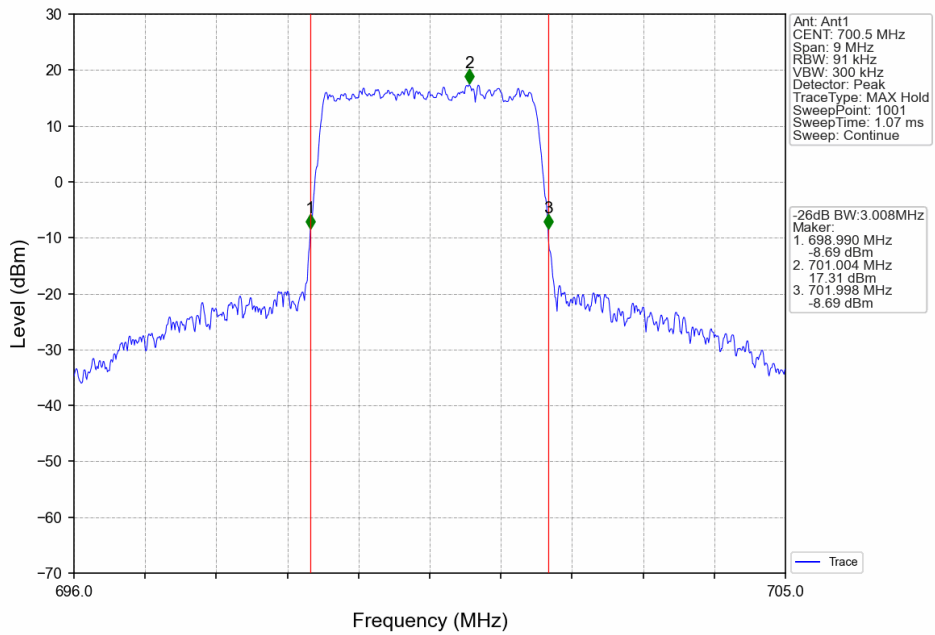
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



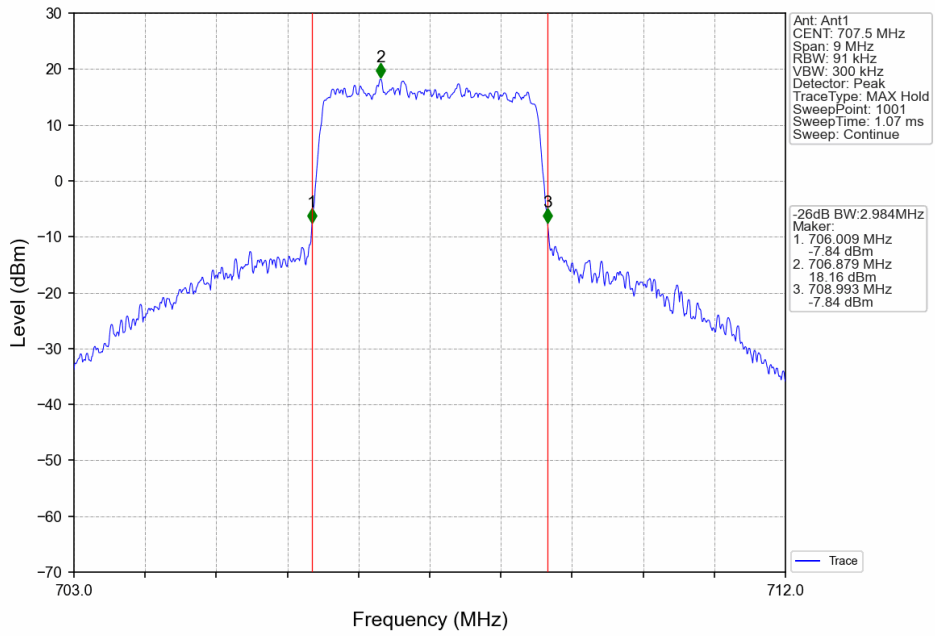
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



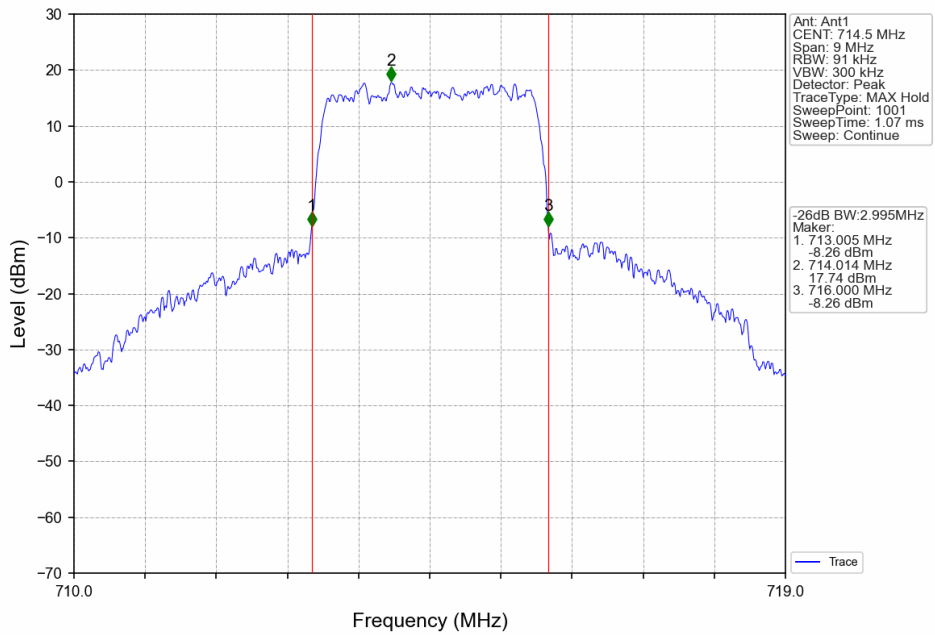
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



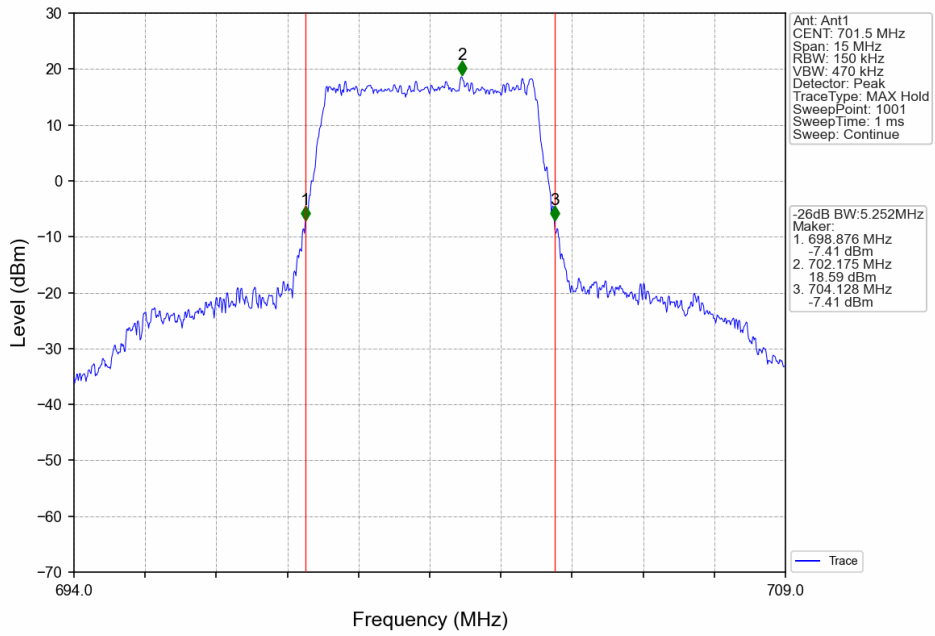
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



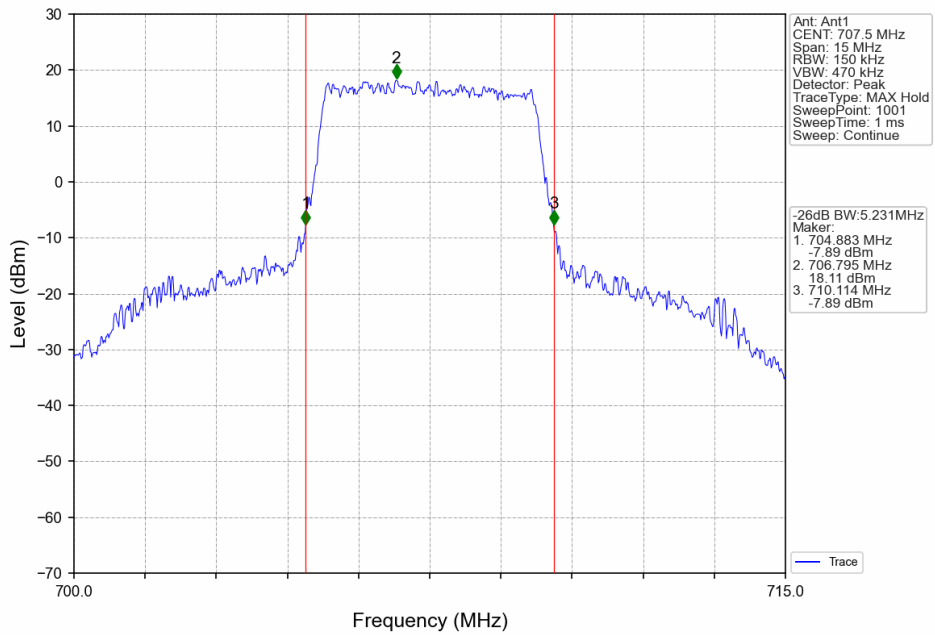
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



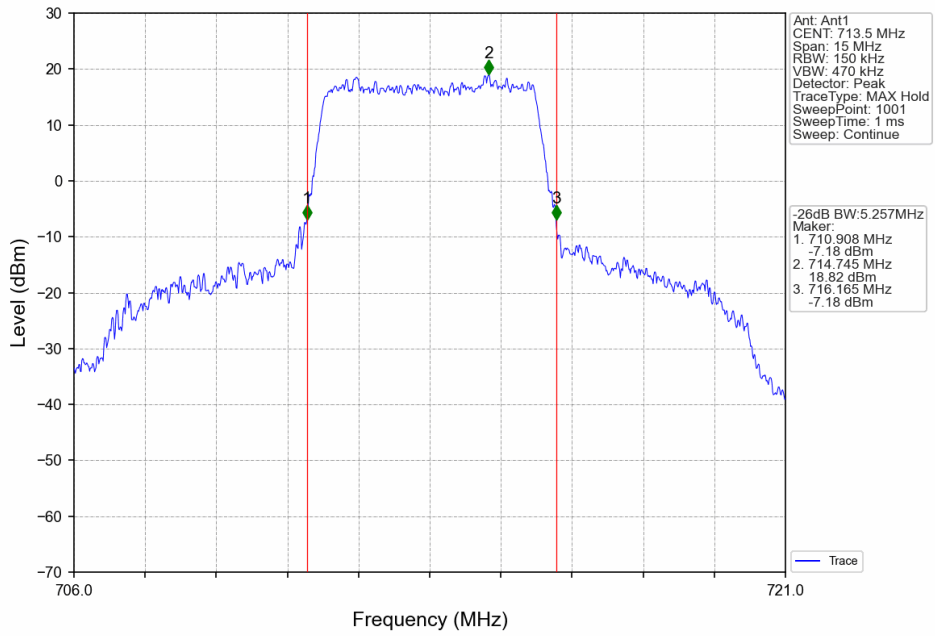
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



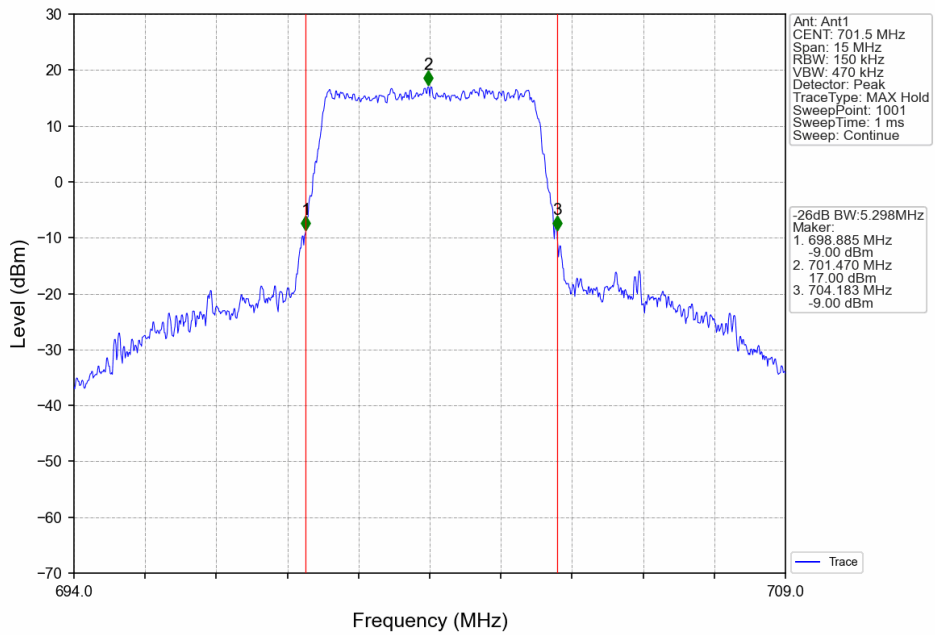
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



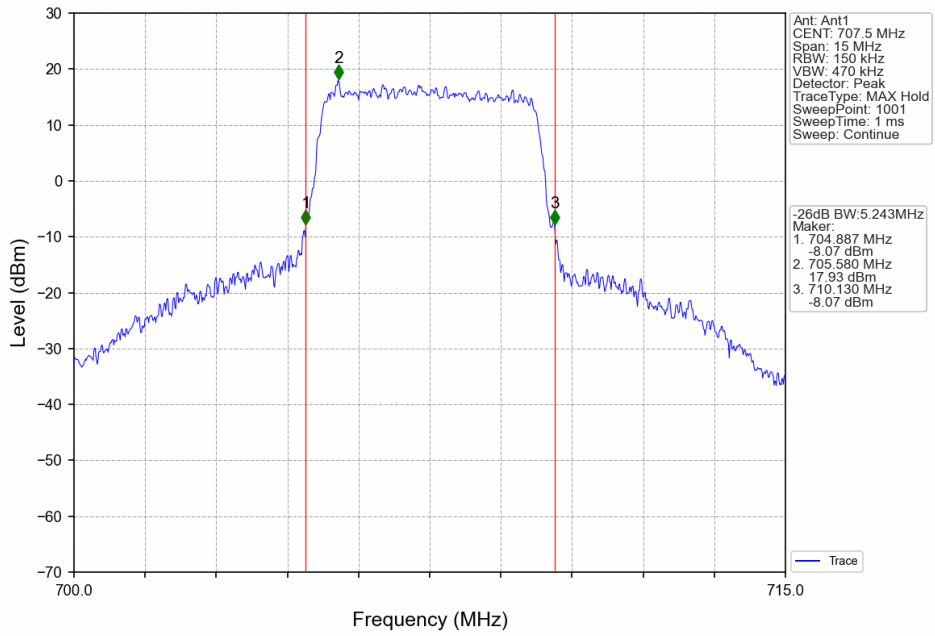
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



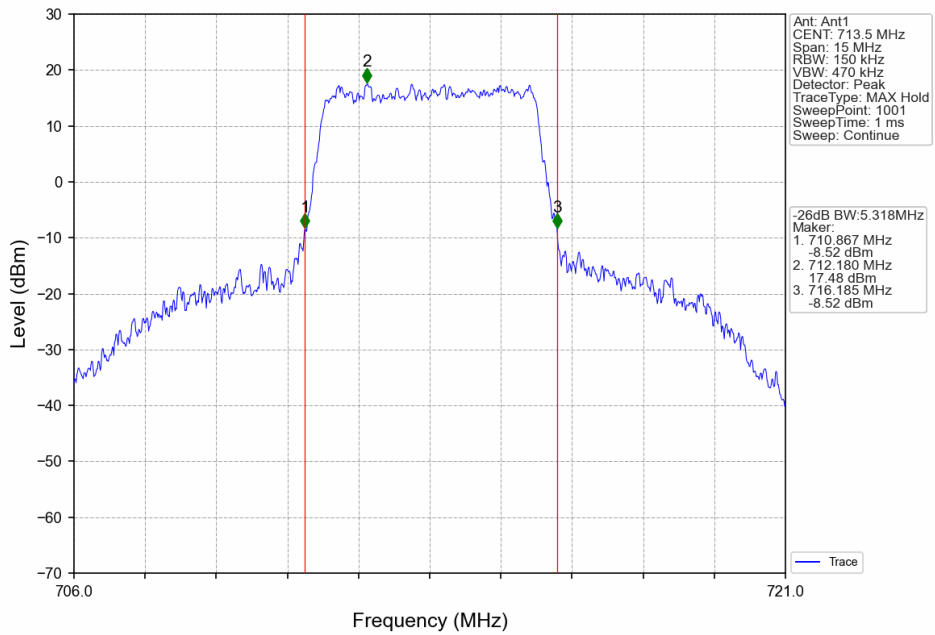
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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

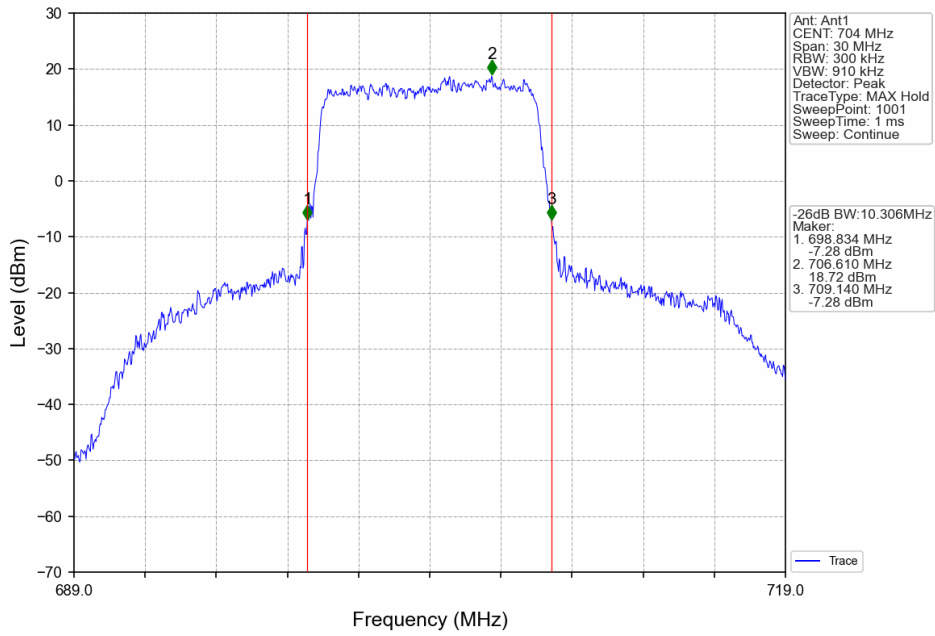


Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

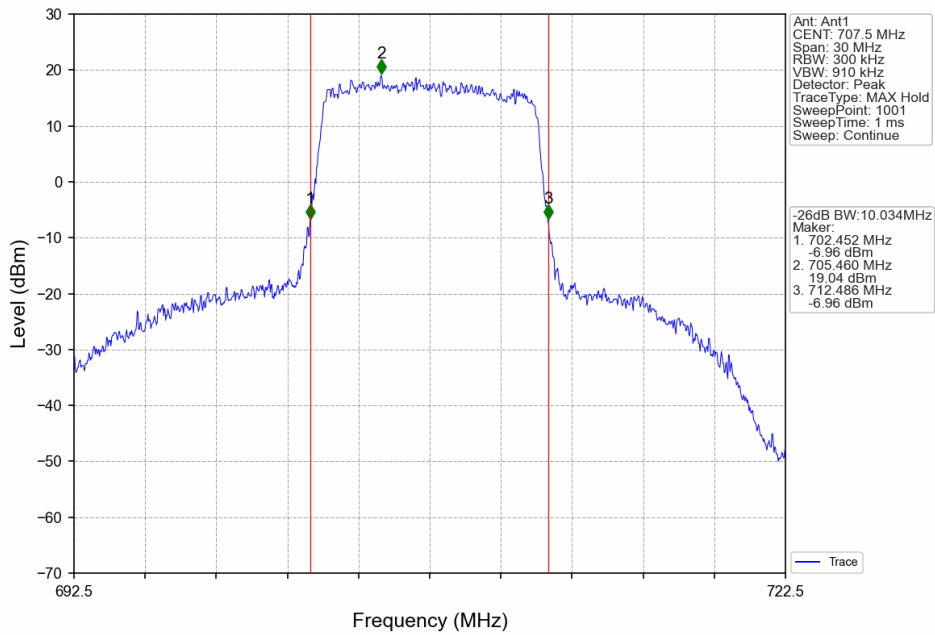




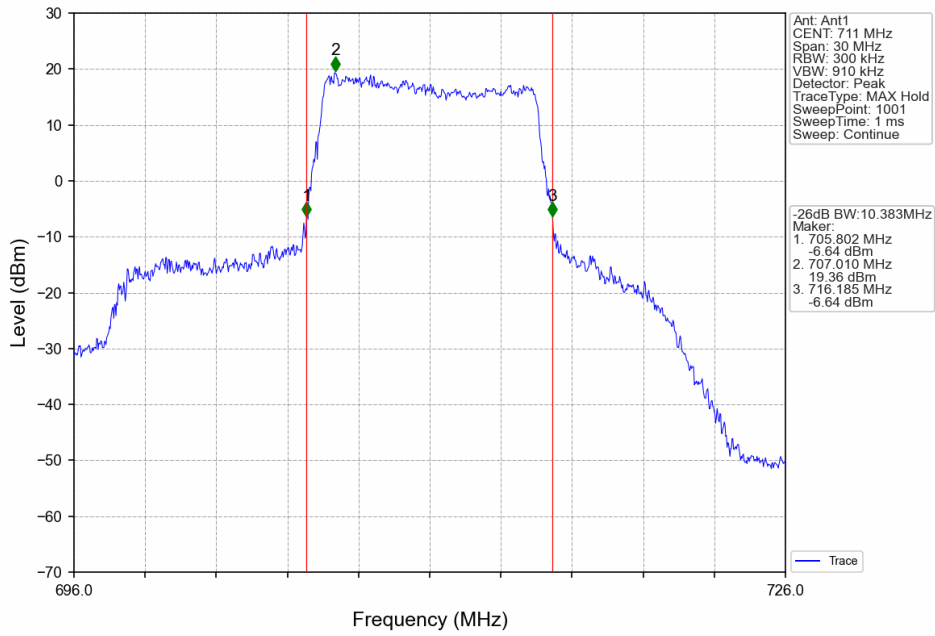
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



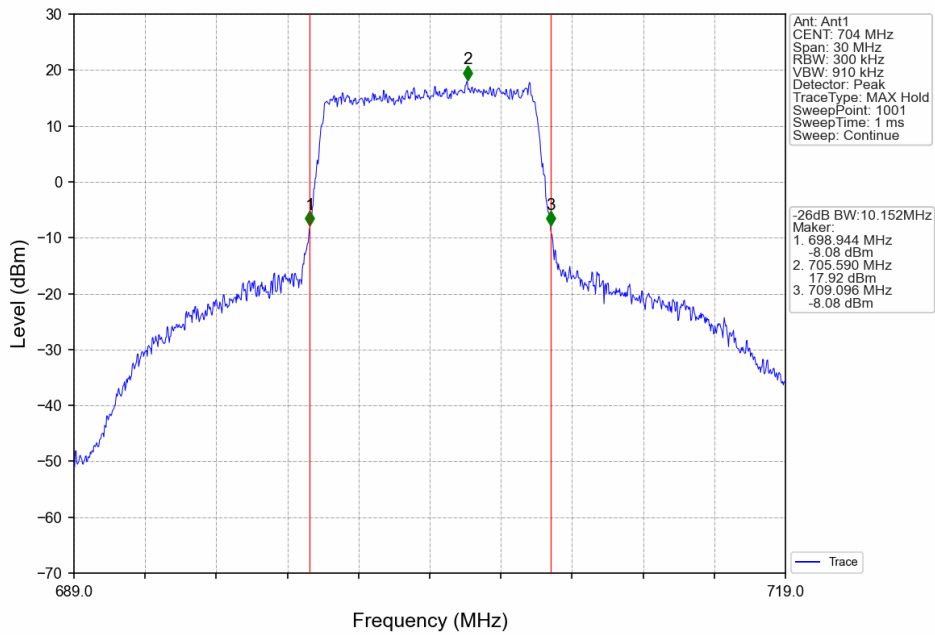
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



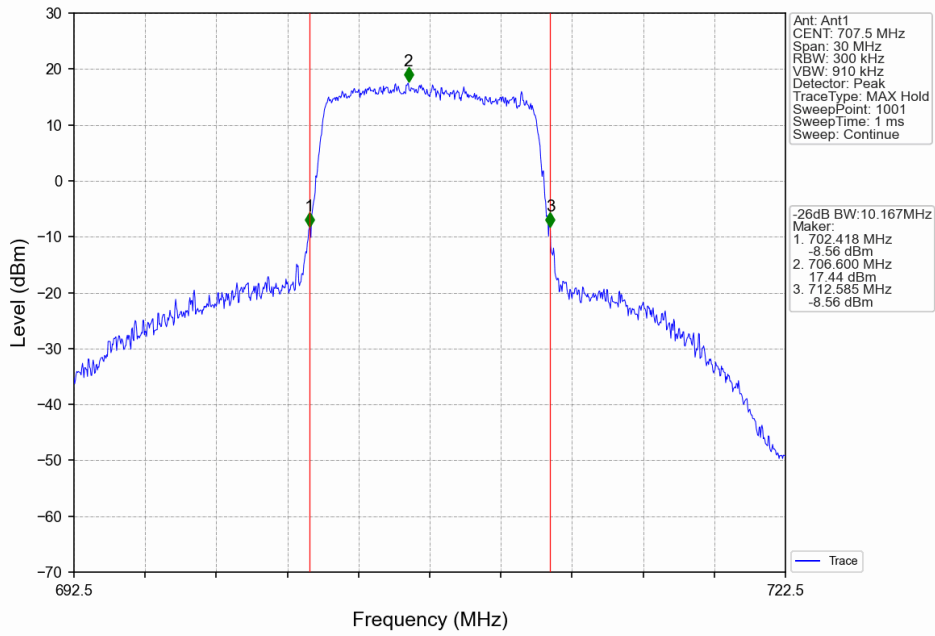
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



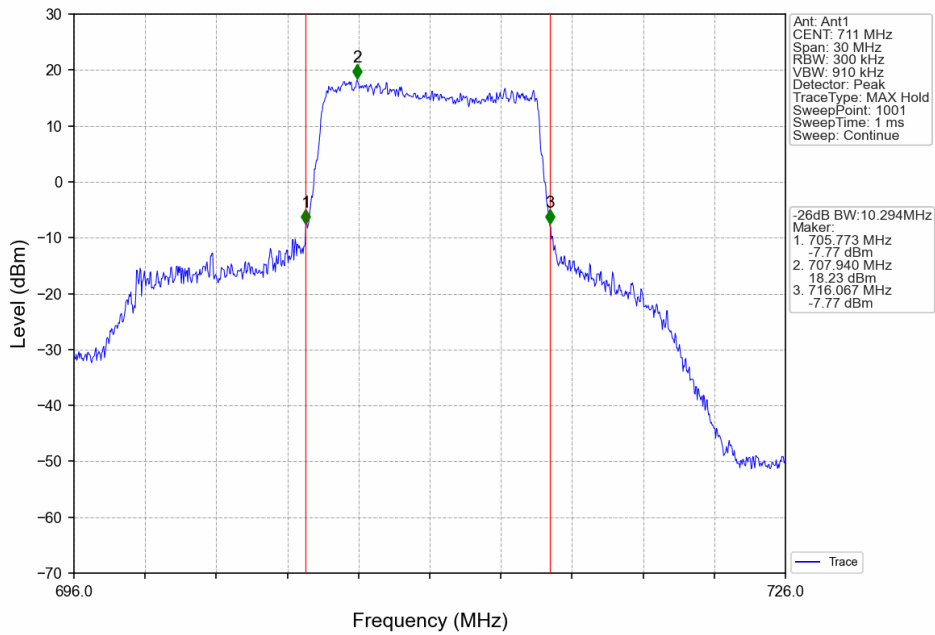
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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



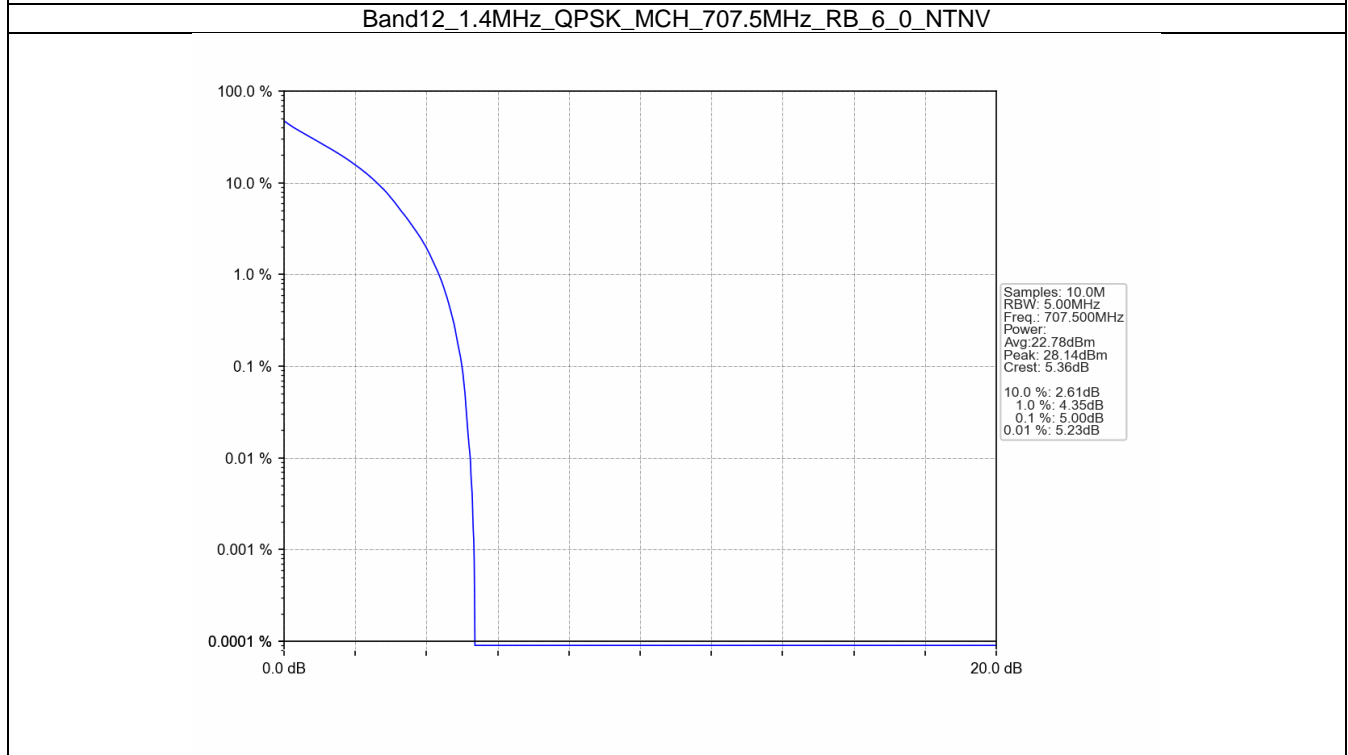
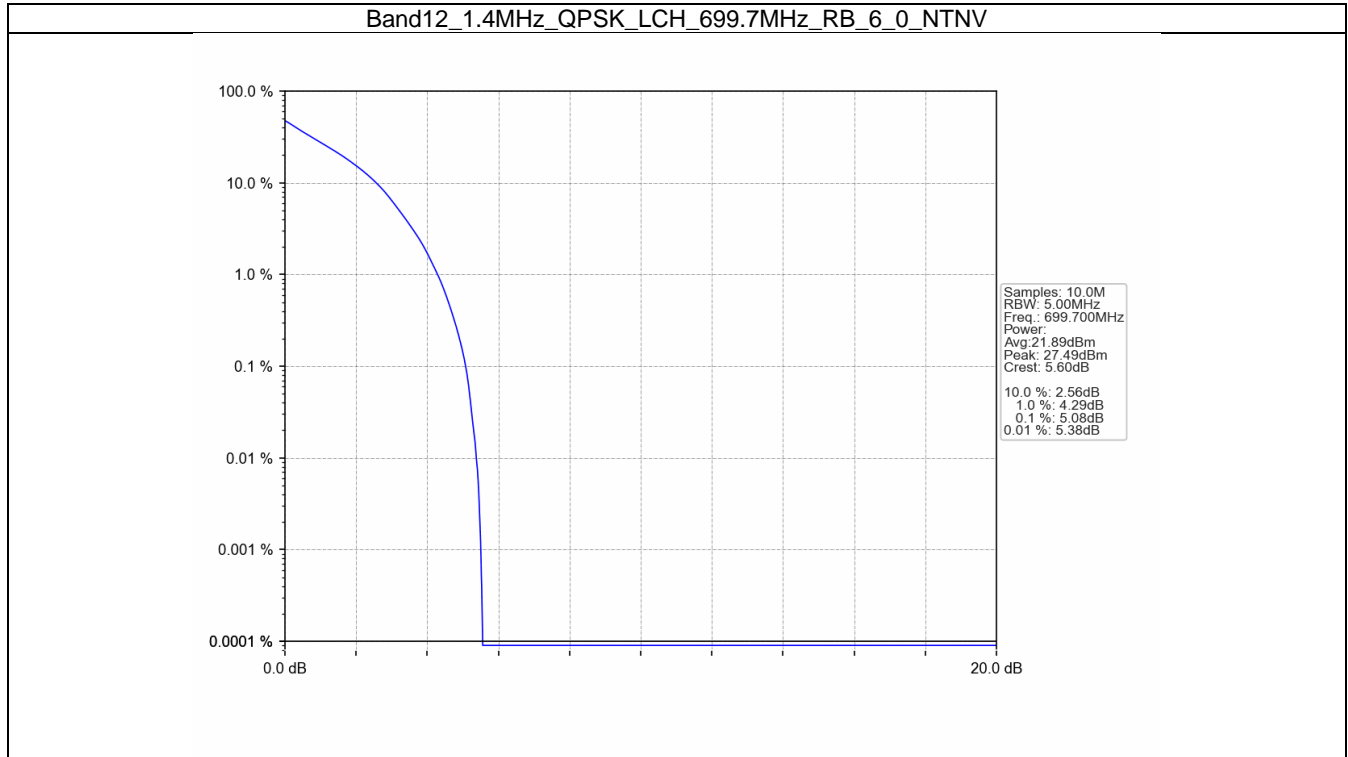
## 5. Peak-Average Ratio

### 5.1 B12\_1.4MHz

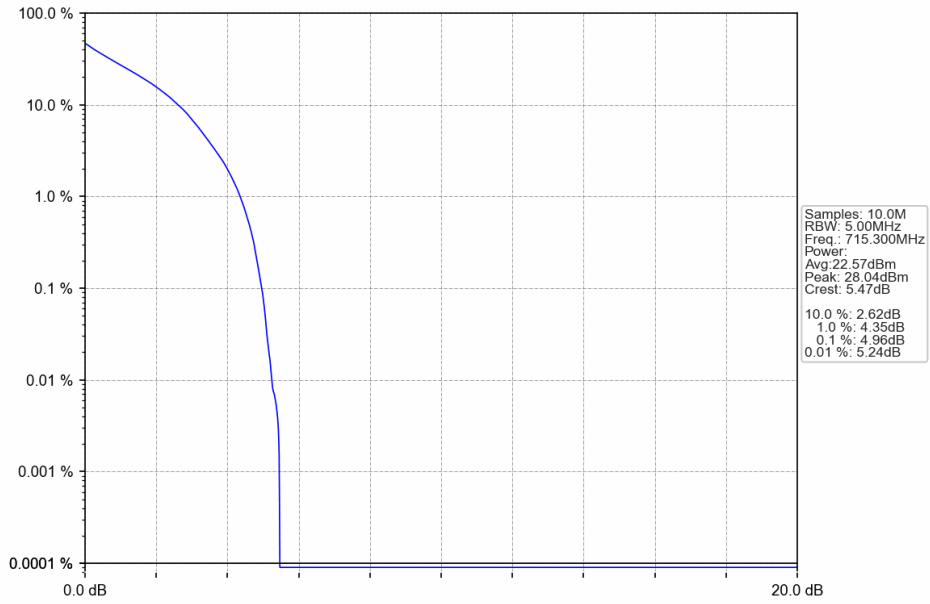
#### 5.1.1 Test Result

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	5.08	<=13	Pass
	707.5	6	0	5.00	<=13	Pass
	715.3	6	0	4.96	<=13	Pass
16QAM	699.7	6	0	5.91	<=13	Pass
	707.5	6	0	5.60	<=13	Pass
	715.3	6	0	5.75	<=13	Pass

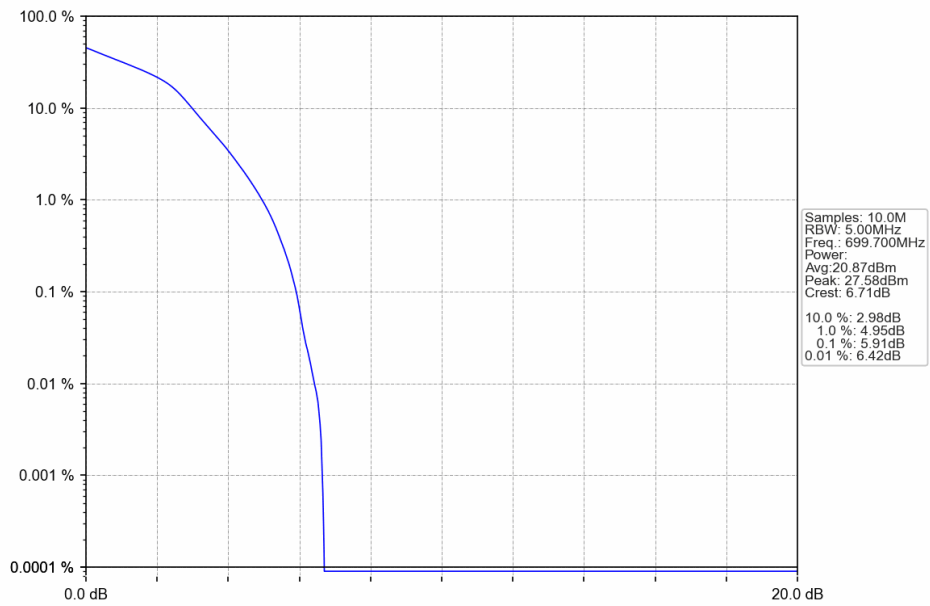
### 5.1.2 Test Graph



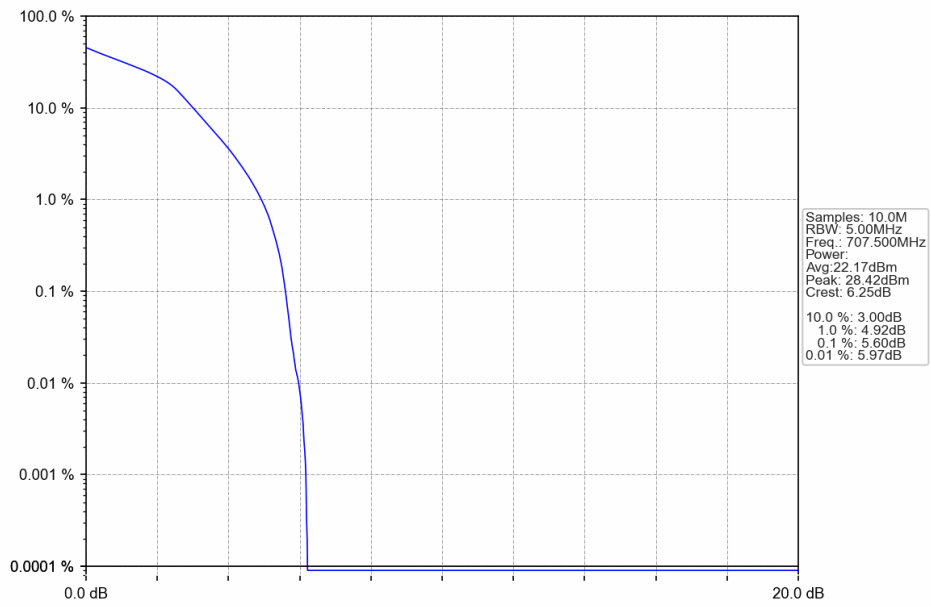
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



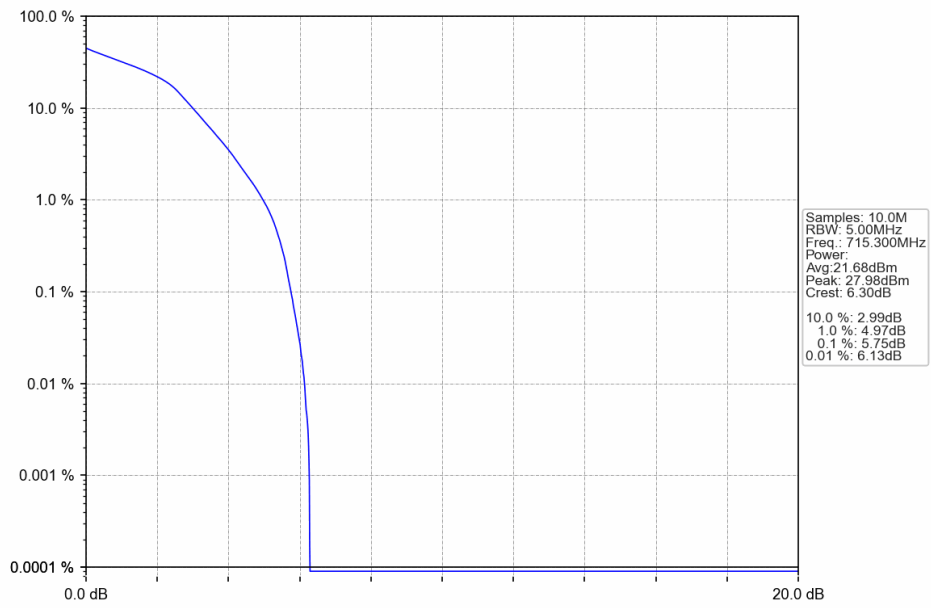
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



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



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



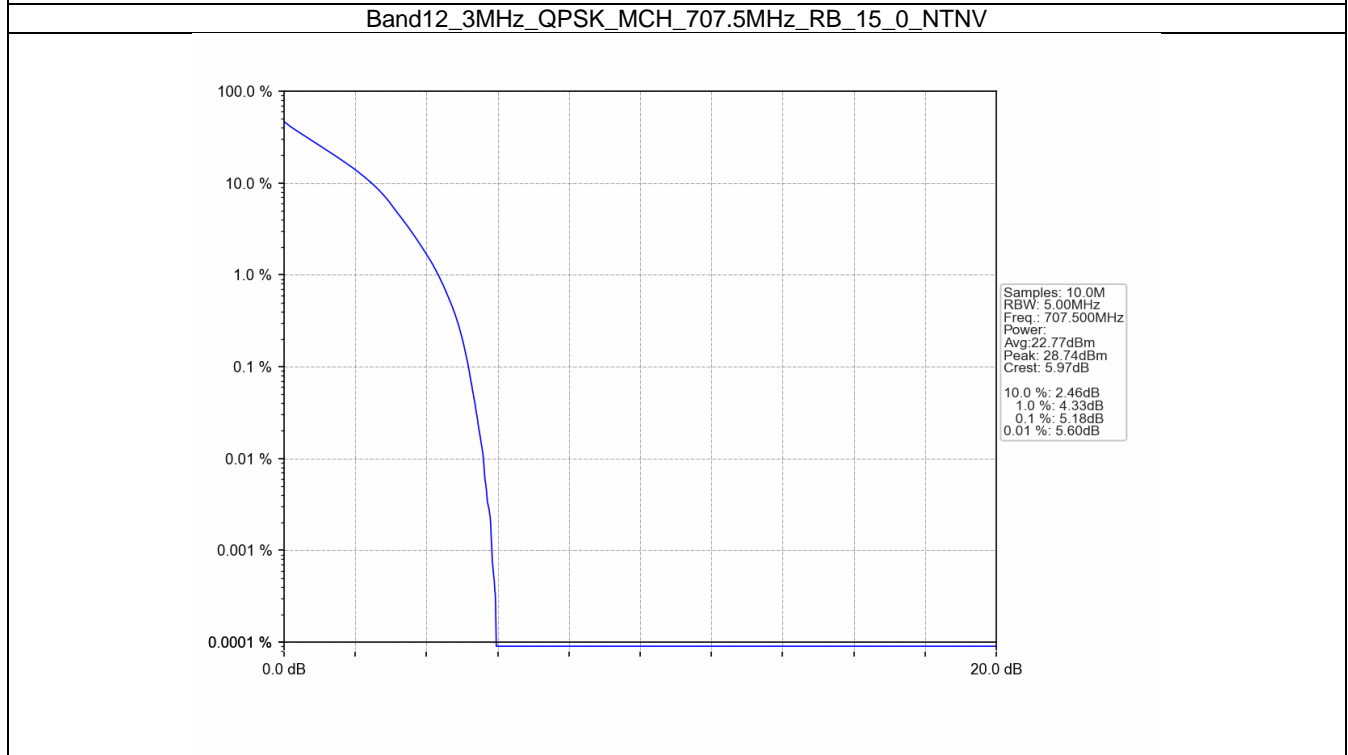
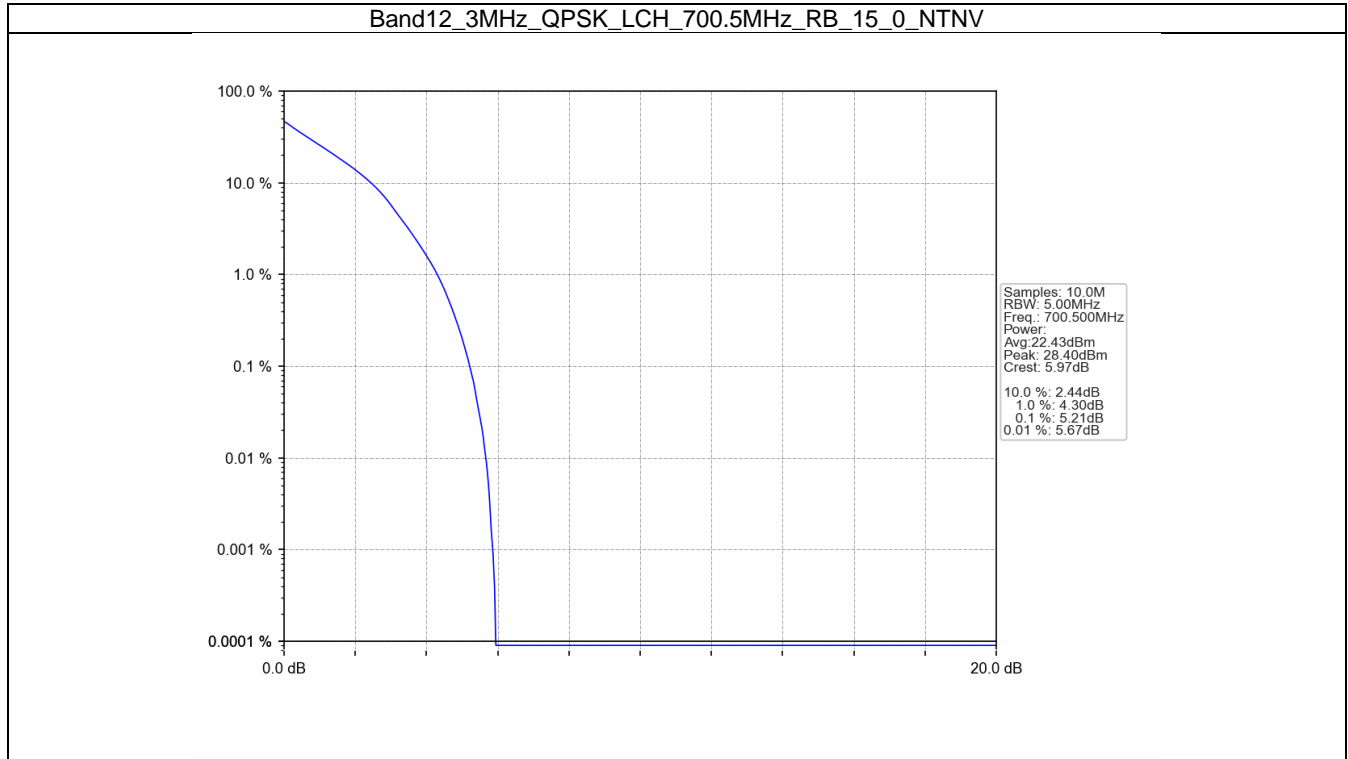
## 5.2 B12\_3MHz

### 5.2.1 Test Result

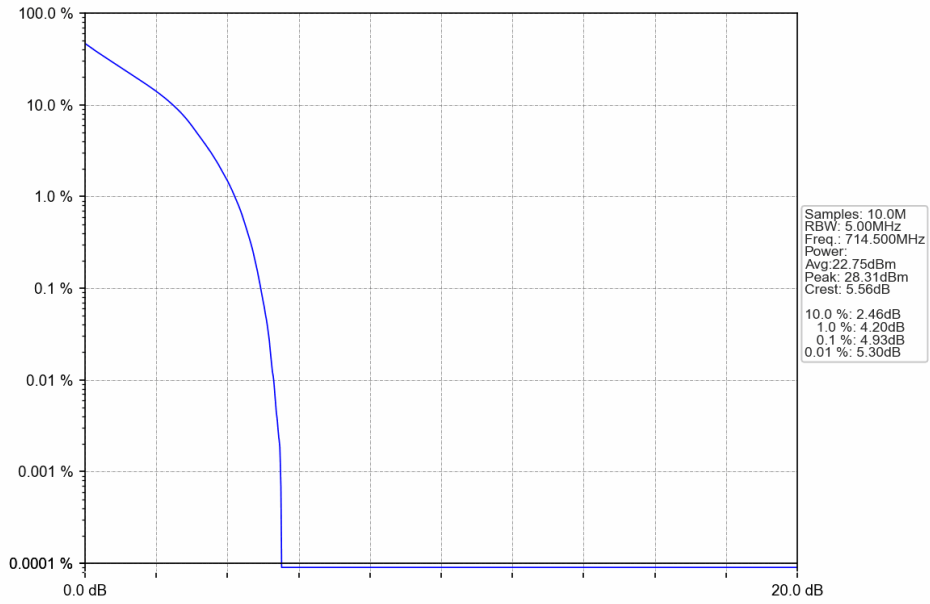
Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.21	<=13	Pass
	707.5	15	0	5.18	<=13	Pass
	714.5	15	0	4.93	<=13	Pass
16QAM	700.5	15	0	5.81	<=13	Pass
	707.5	15	0	5.89	<=13	Pass
	714.5	15	0	5.78	<=13	Pass



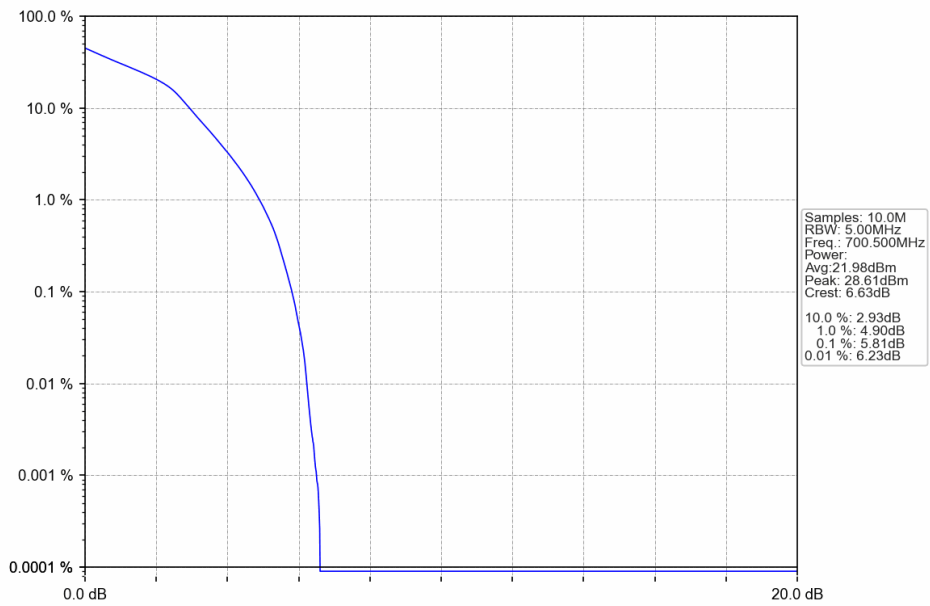
## 5.2.2 Test Graph



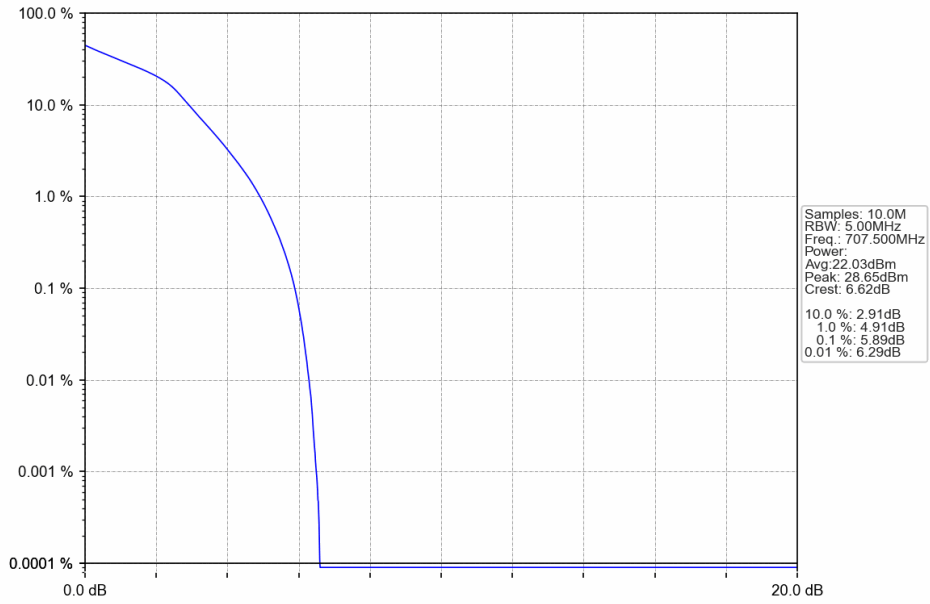
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



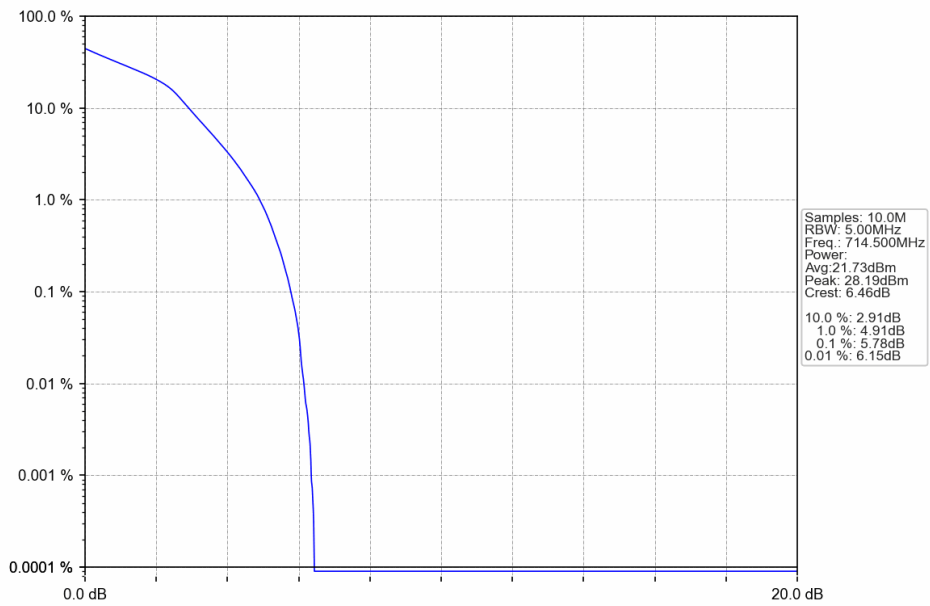
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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



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

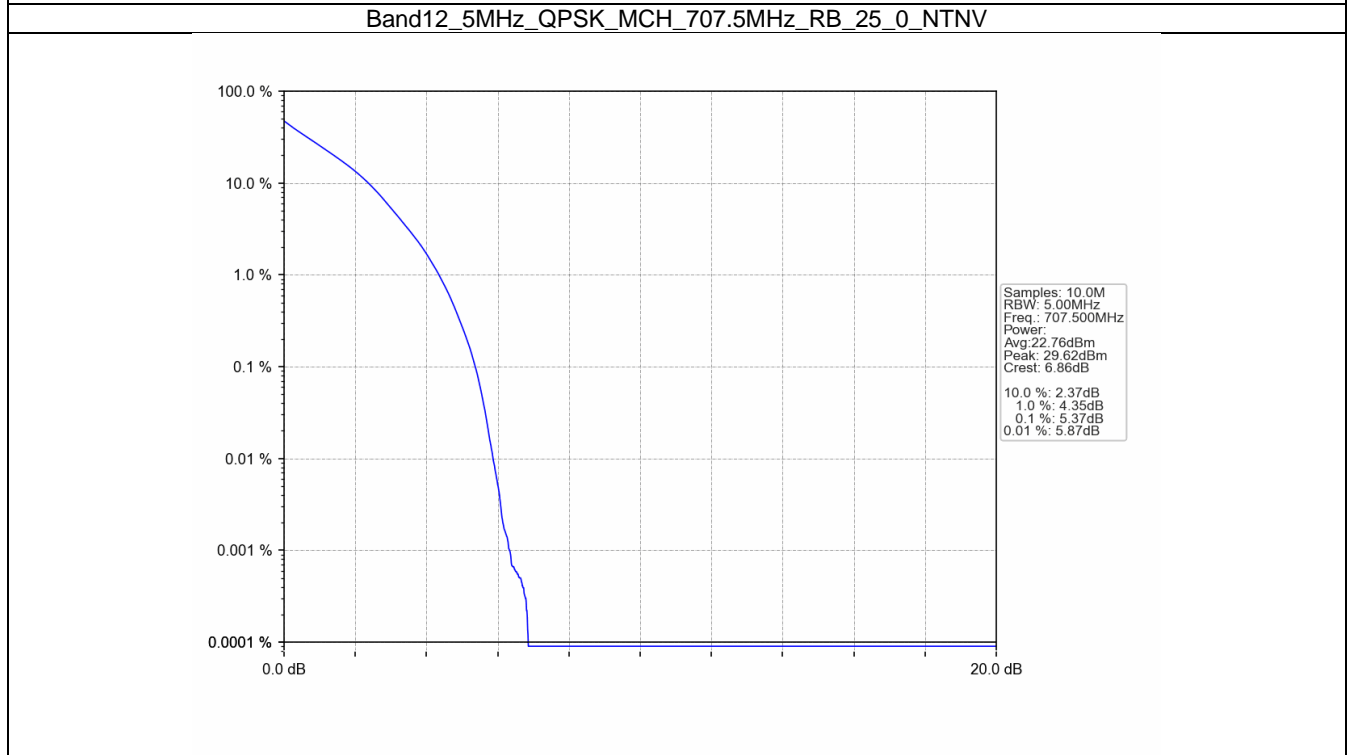
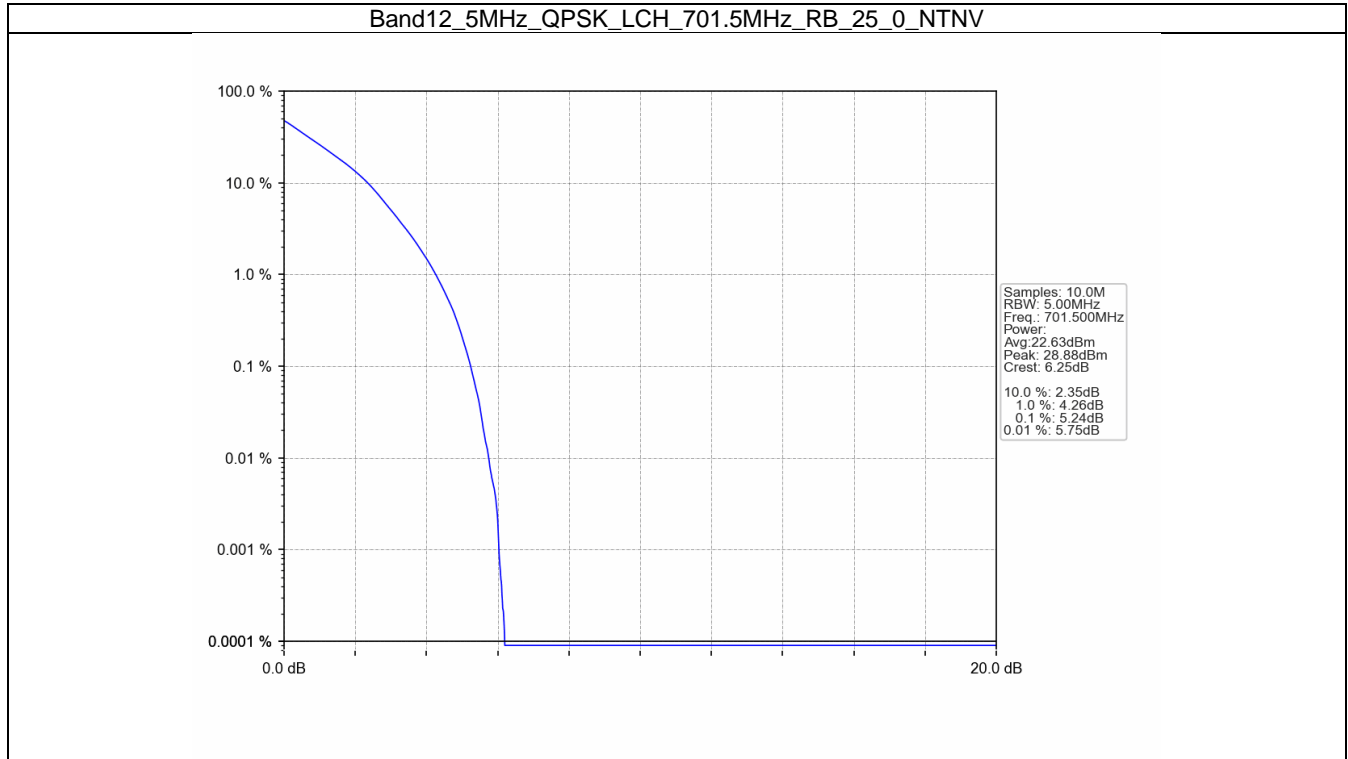


## 5.3 B12\_5MHz

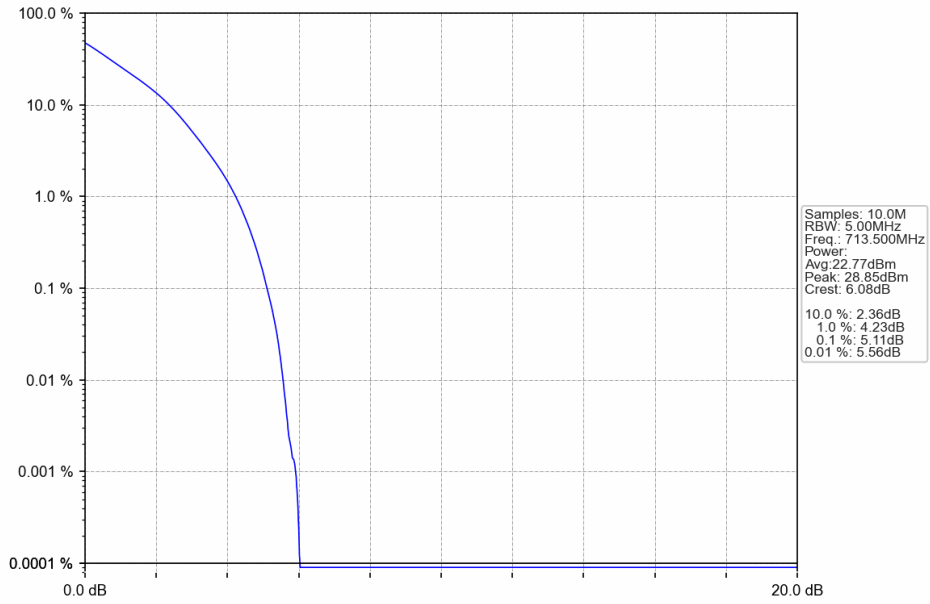
### 5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.24	<=13	Pass
	707.5	25	0	5.37	<=13	Pass
	713.5	25	0	5.11	<=13	Pass
16QAM	701.5	25	0	6.01	<=13	Pass
	707.5	25	0	6.00	<=13	Pass
	713.5	25	0	5.87	<=13	Pass

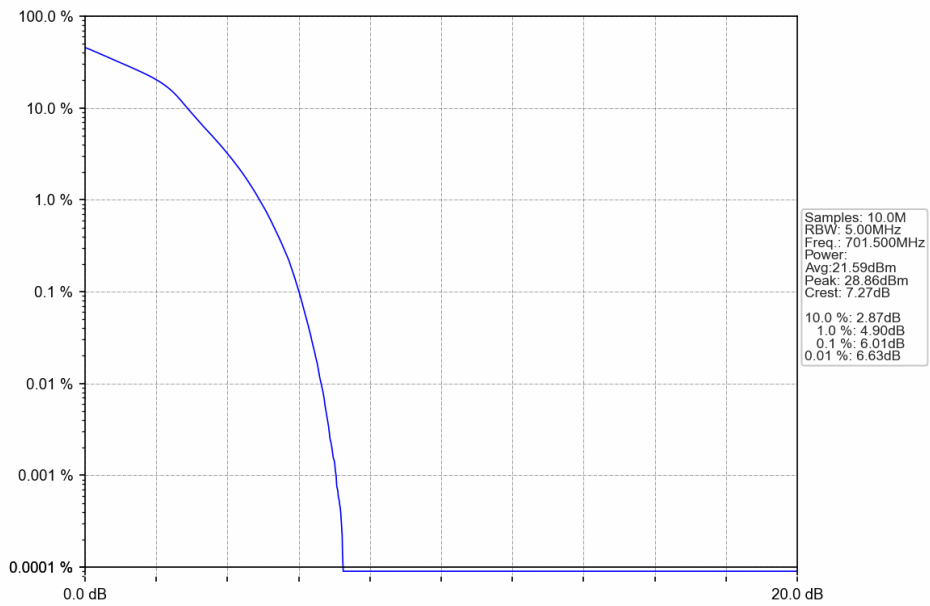
### 5.3.2 Test Graph



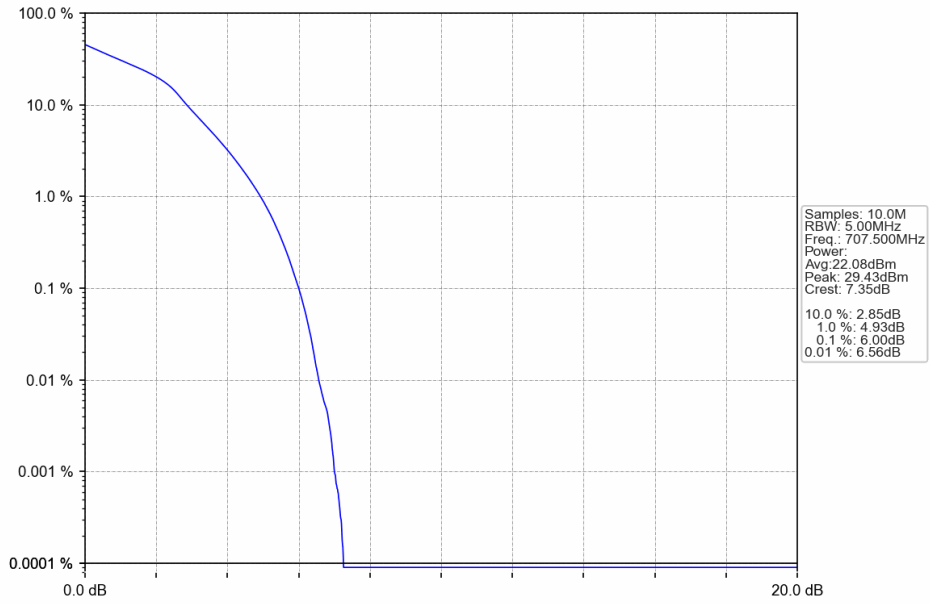
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



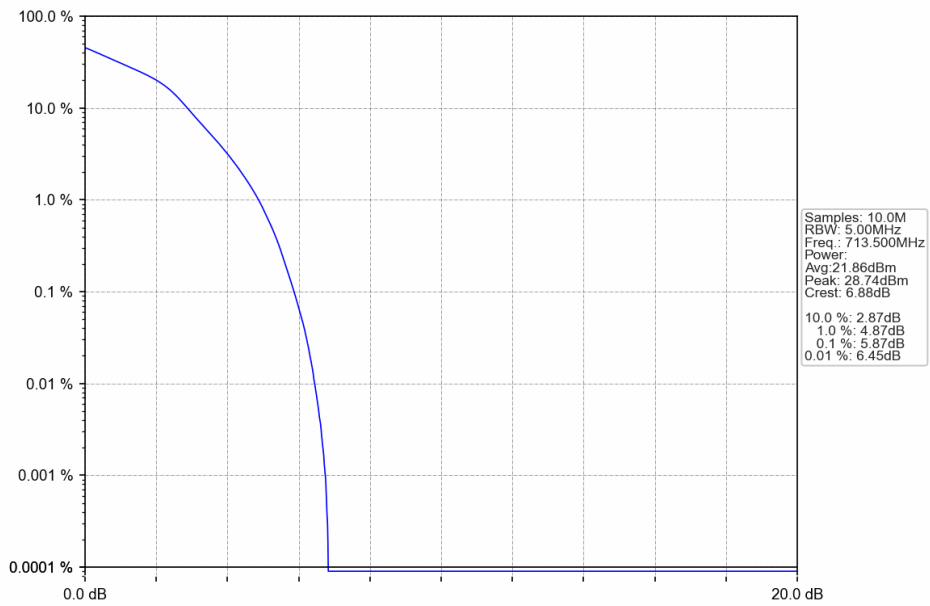
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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



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



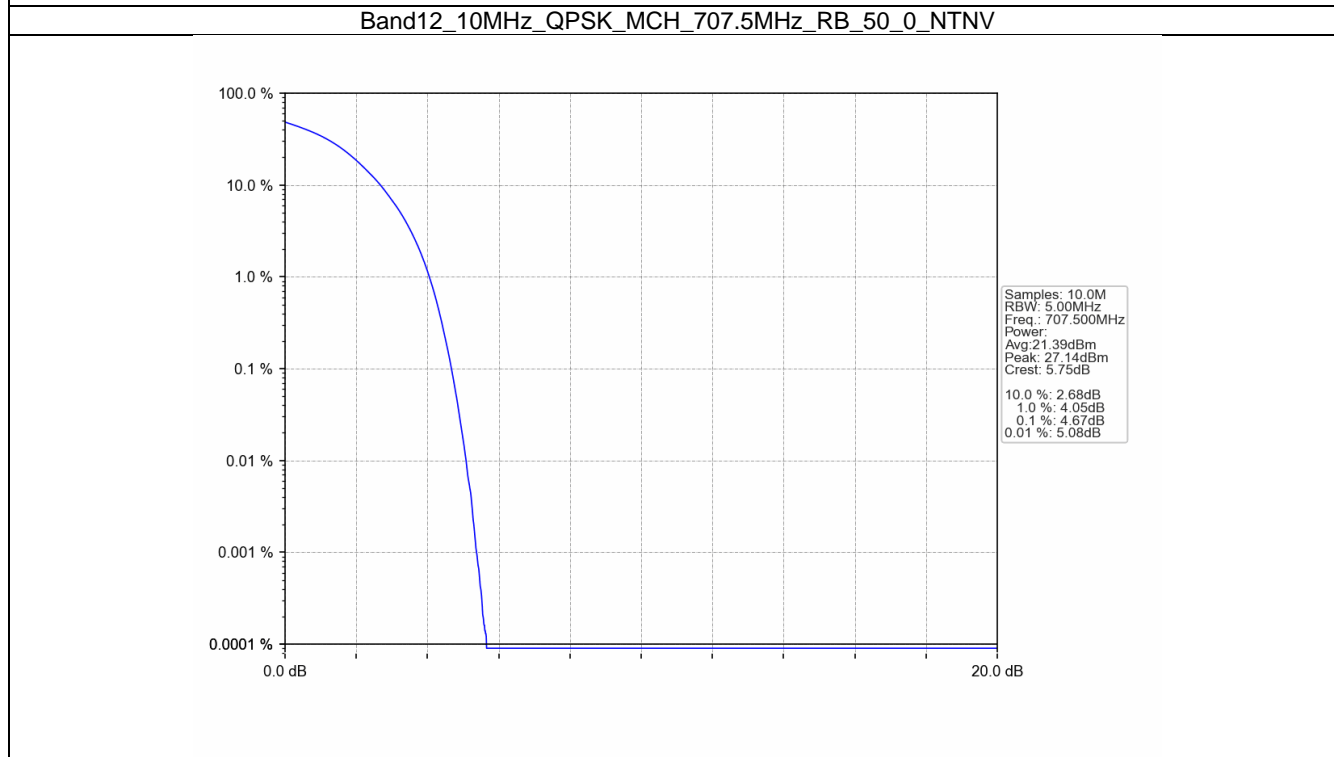
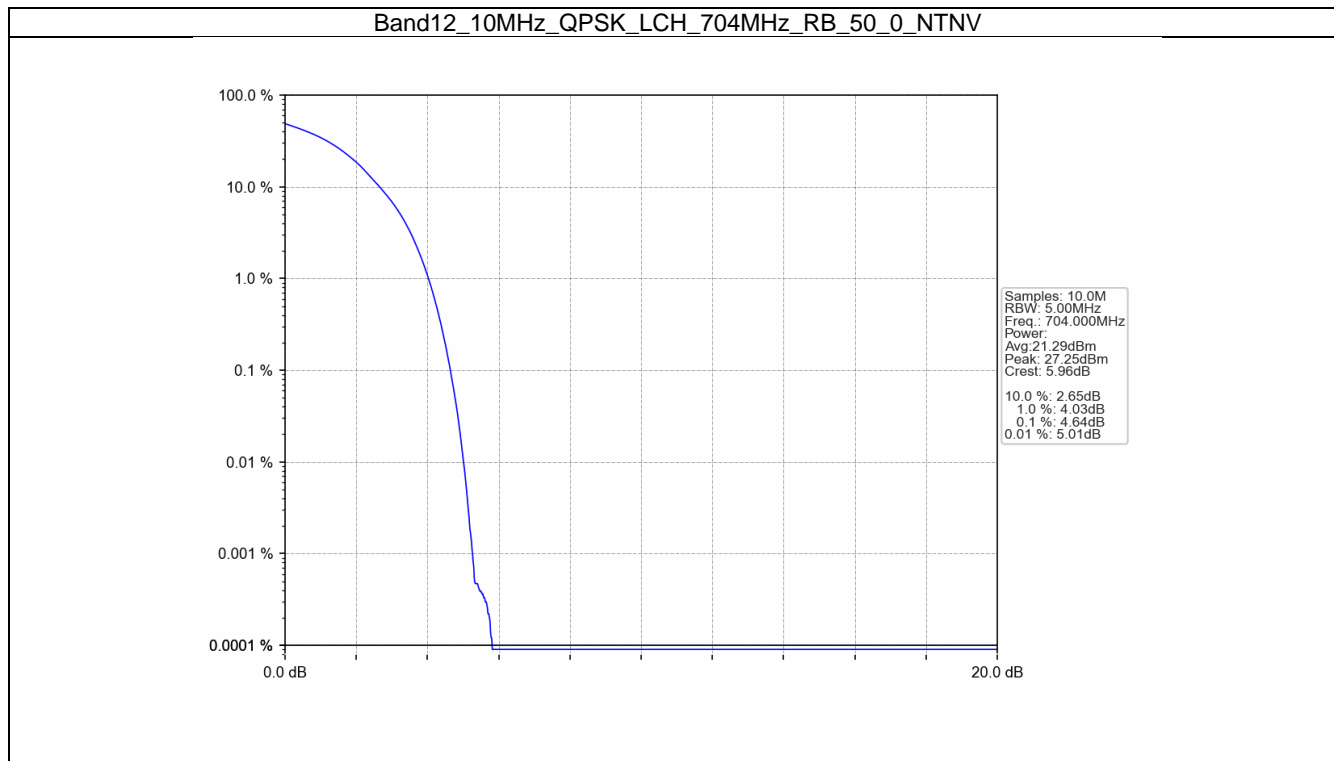
## 5.4 B12\_10MHz

### 5.4.1 Test Result

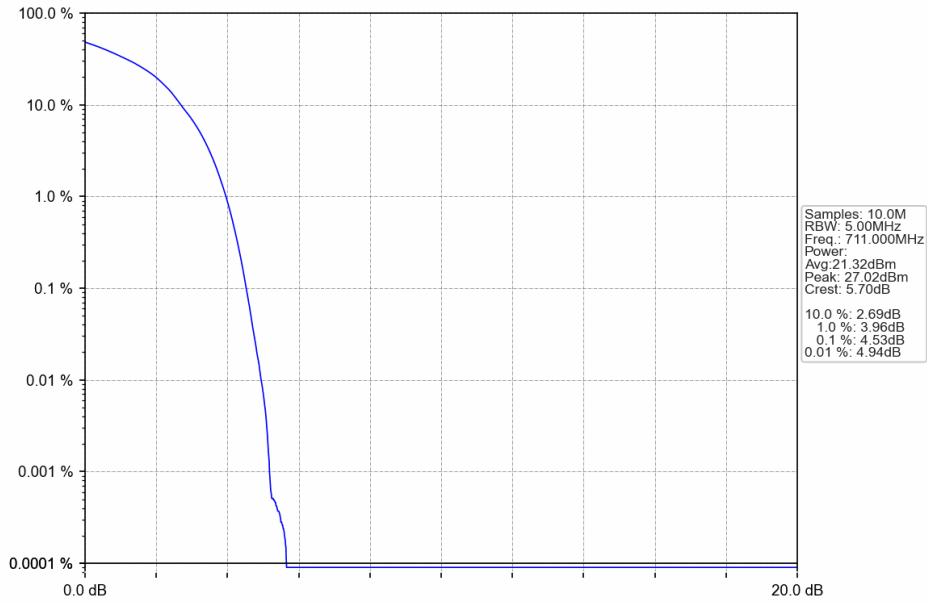
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.64	<=13	Pass
	707.5	50	0	4.67	<=13	Pass
	711	50	0	4.53	<=13	Pass
16QAM	704	50	0	6.03	<=13	Pass
	707.5	50	0	6.01	<=13	Pass
	711	50	0	6.03	<=13	Pass



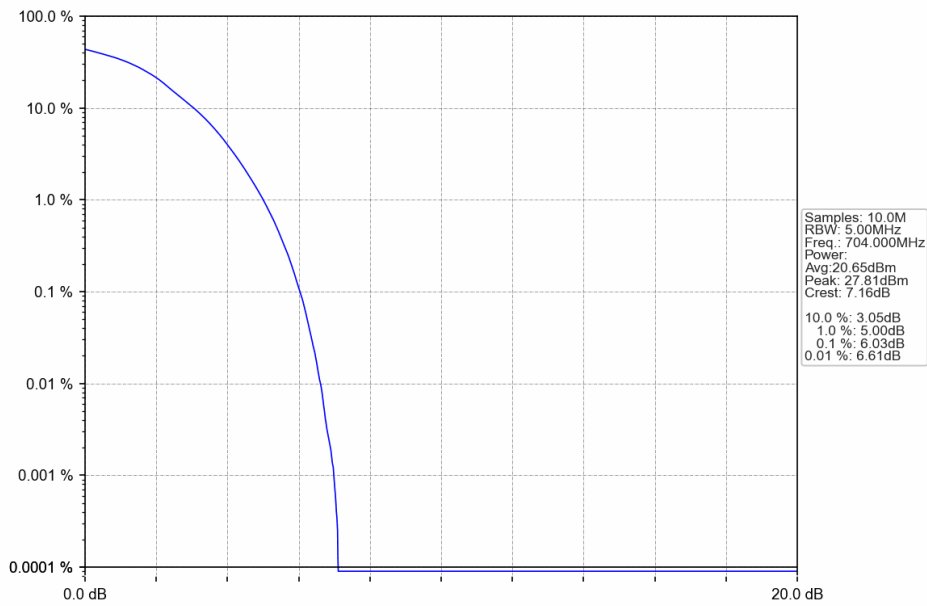
## 5.4.2 Test Graph



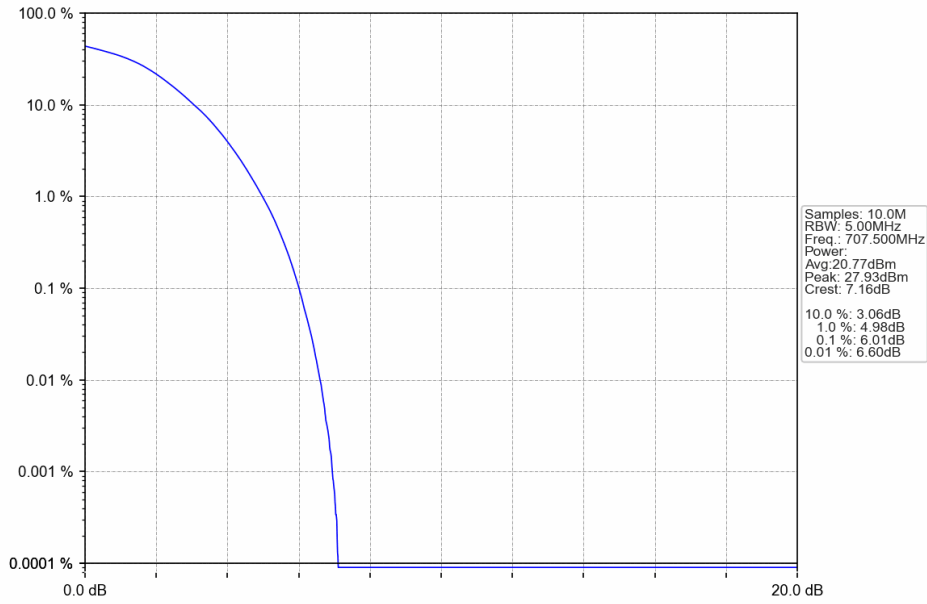
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



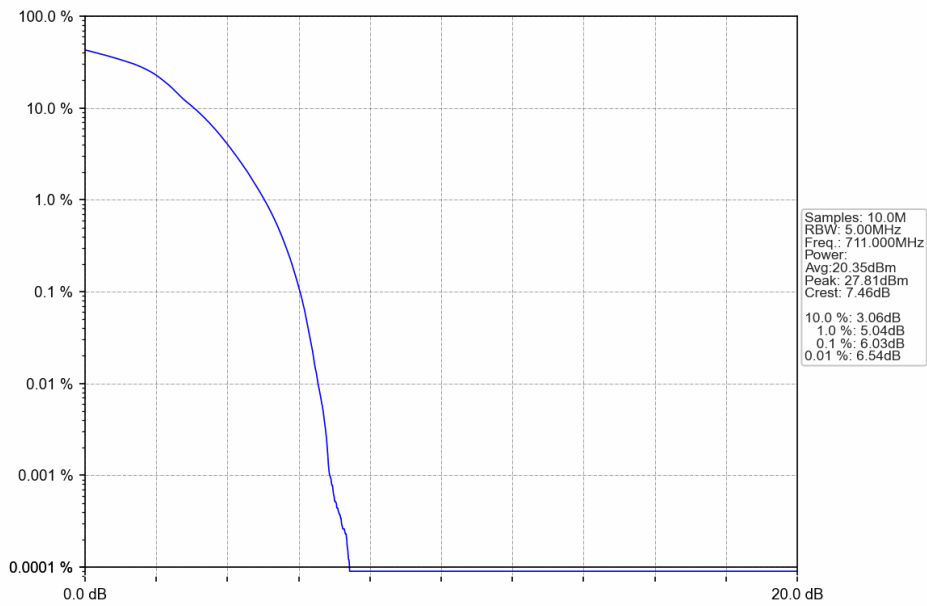
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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



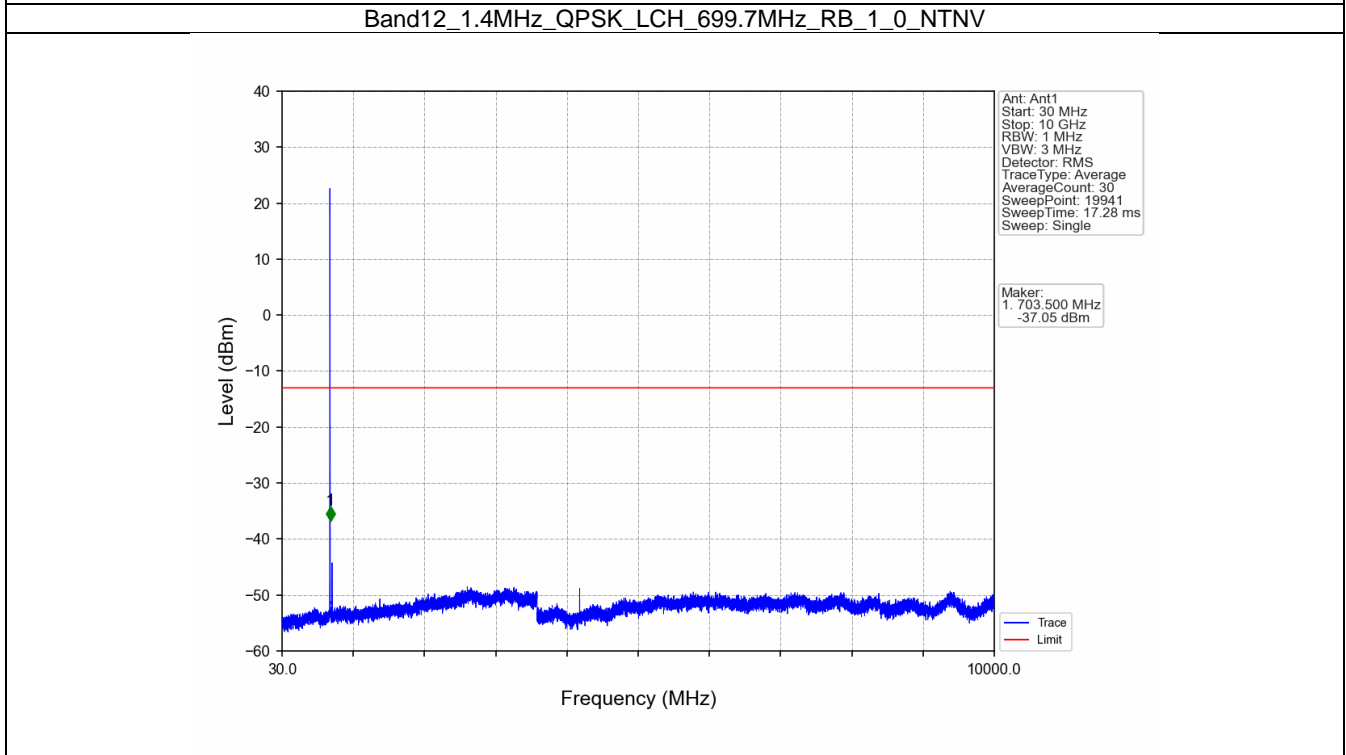
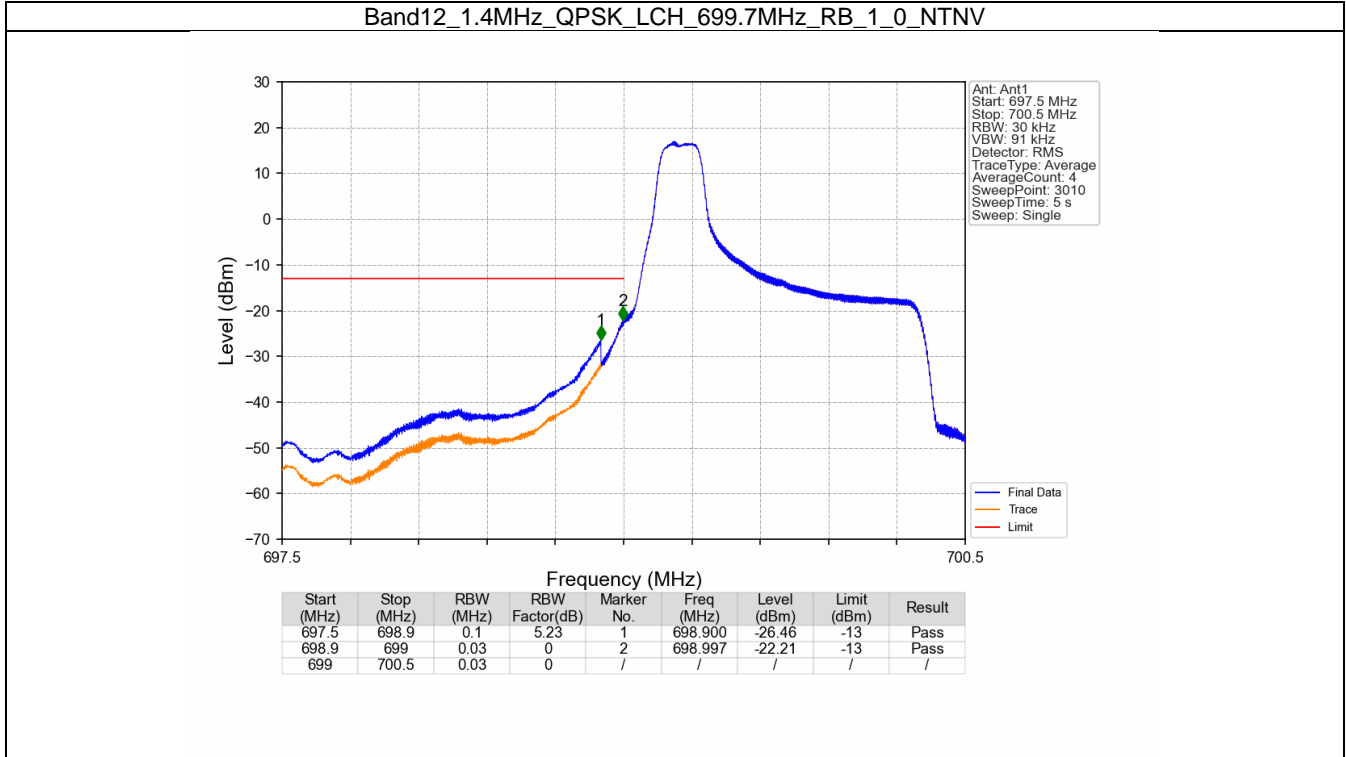
## 6. Spurious Emission

### 6.1 B12\_1.4MHz

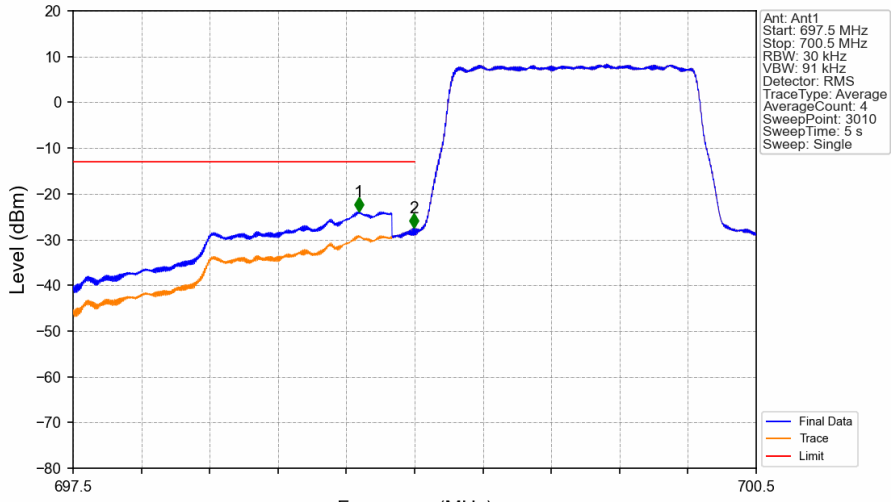
#### 6.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
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
	707.5	1	0	Refer To Test Graph		Pass
		715.3	1	0	Refer To Test Graph	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		715.3	1	0	Refer To Test Graph	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	

### 6.1.2 Test Graph

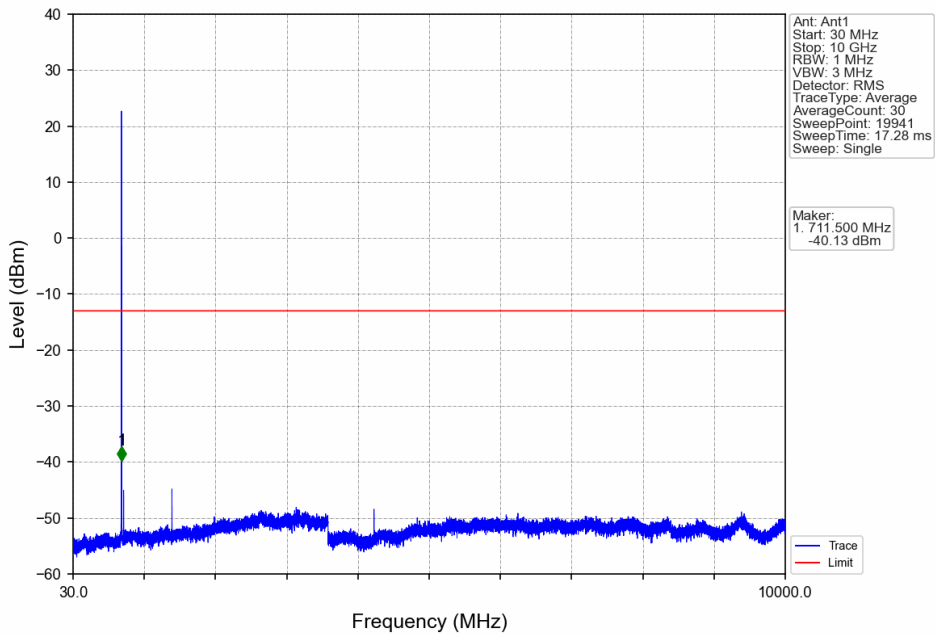


Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.754	-23.88	-13	Pass
698.9	699	0.03	0	2	698.997	-27.42	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

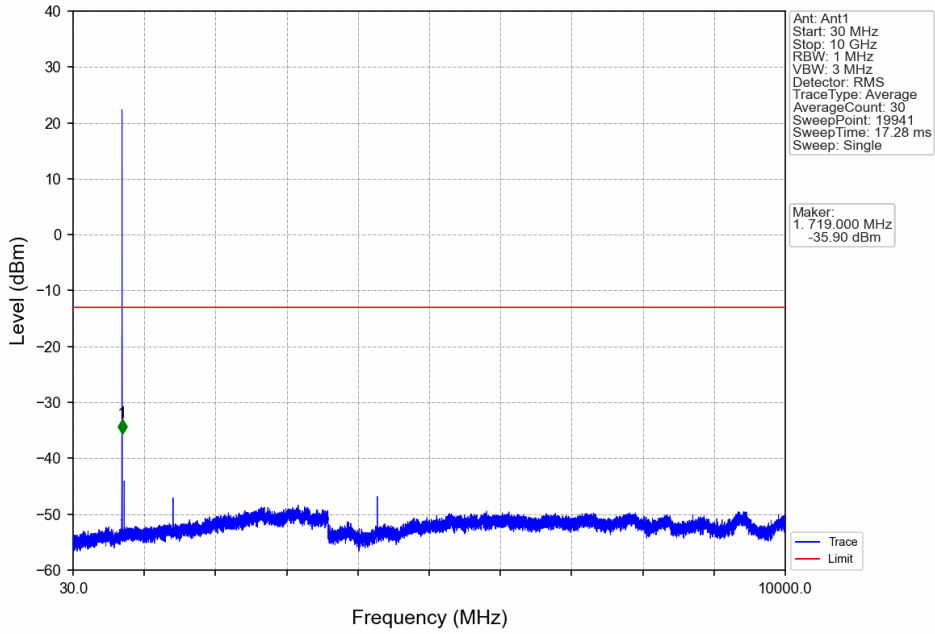
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



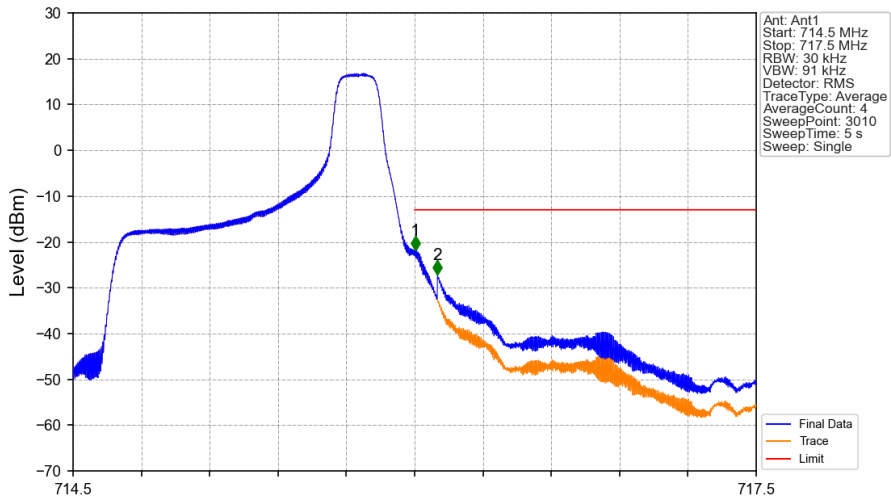
Ant: Ant1  
 Start: 30 MHz  
 Stop: 10 GHz  
 RBW: 1 MHz  
 VBW: 3 MHz  
 Detector: RMS  
 TraceType: Average  
 AverageCount: 30  
 SweepPoint: 19941  
 SweepTime: 17.28 ms  
 Sweep: Single

Marker:  
 1. 7.11500 MHz  
 -40.13 dBm

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)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.003	-21.88	-13	Pass
716.1	717.5	0.1	5.23	2	716.100	-27.09	-13	Pass