

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B4\_1.4MHz\_EIRP

### 1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1710.7	1	0	22.00	0.68	22.68	<=30	Pass		
			2	22.12	0.68	22.80	<=30	Pass		
			5	22.01	0.68	22.69	<=30	Pass		
		3	0	21.97	0.68	22.65	<=30	Pass		
			2	22.01	0.68	22.69	<=30	Pass		
			3	21.98	0.68	22.66	<=30	Pass		
		6	0	20.98	0.68	21.66	<=30	Pass		
		1732.5	1	0	21.34	0.68	22.02	<=30	Pass	
				2	21.43	0.68	22.11	<=30	Pass	
	5			21.34	0.68	22.02	<=30	Pass		
	3		0	21.45	0.68	22.13	<=30	Pass		
			2	21.48	0.68	22.16	<=30	Pass		
			3	21.43	0.68	22.11	<=30	Pass		
	6		0	20.43	0.68	21.11	<=30	Pass		
	1754.3		1	0	21.75	0.68	22.43	<=30	Pass	
				2	21.42	0.68	22.10	<=30	Pass	
		5		21.22	0.68	21.90	<=30	Pass		
		3	0	21.19	0.68	21.87	<=30	Pass		
			2	21.23	0.68	21.91	<=30	Pass		
			3	21.22	0.68	21.90	<=30	Pass		
		6	0	20.26	0.68	20.94	<=30	Pass		
		16QAM	1710.7	1	0	20.66	0.68	21.34	<=30	Pass
					2	20.62	0.68	21.30	<=30	Pass
	5				20.49	0.68	21.17	<=30	Pass	
	3			0	20.53	0.68	21.21	<=30	Pass	
				2	20.53	0.68	21.21	<=30	Pass	
				3	20.50	0.68	21.18	<=30	Pass	
6	0			19.41	0.68	20.09	<=30	Pass		
1732.5	1			0	20.56	0.68	21.24	<=30	Pass	
				2	20.61	0.68	21.29	<=30	Pass	
			5	20.45	0.68	21.13	<=30	Pass		
	3		0	20.41	0.68	21.09	<=30	Pass		
			2	20.43	0.68	21.11	<=30	Pass		
			3	20.42	0.68	21.10	<=30	Pass		
	6		0	19.42	0.68	20.10	<=30	Pass		
	1754.3		1	0	20.12	0.68	20.80	<=30	Pass	
				2	20.23	0.68	20.91	<=30	Pass	
5				20.14	0.68	20.82	<=30	Pass		
3			0	20.27	0.68	20.95	<=30	Pass		
			2	20.25	0.68	20.93	<=30	Pass		
			3	20.22	0.68	20.90	<=30	Pass		
6			0	19.14	0.68	19.82	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 1.2 B4\_3MHz\_EIRP

### 1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1711.5	1	0	22.12	0.68	22.80	<=30	Pass		
			7	22.11	0.68	22.79	<=30	Pass		
			14	21.56	0.68	22.24	<=30	Pass		
		8	0	20.57	0.68	21.25	<=30	Pass		
			4	20.59	0.68	21.27	<=30	Pass		
			7	20.55	0.68	21.23	<=30	Pass		
		15	0	20.51	0.68	21.19	<=30	Pass		
		1732.5	1	0	21.45	0.68	22.13	<=30	Pass	
				7	21.59	0.68	22.27	<=30	Pass	
	14			21.42	0.68	22.10	<=30	Pass		
	8		0	20.49	0.68	21.17	<=30	Pass		
			4	20.48	0.68	21.16	<=30	Pass		
			7	20.45	0.68	21.13	<=30	Pass		
	15		0	20.46	0.68	21.14	<=30	Pass		
	1753.5		1	0	21.26	0.68	21.94	<=30	Pass	
				7	21.42	0.68	22.10	<=30	Pass	
		14		21.25	0.68	21.93	<=30	Pass		
		8	0	20.29	0.68	20.97	<=30	Pass		
			4	20.30	0.68	20.98	<=30	Pass		
			7	20.28	0.68	20.96	<=30	Pass		
		15	0	20.26	0.68	20.94	<=30	Pass		
		16QAM	1711.5	1	0	20.53	0.68	21.21	<=30	Pass
					7	20.65	0.68	21.33	<=30	Pass
	14				20.46	0.68	21.14	<=30	Pass	
	8			0	19.58	0.68	20.26	<=30	Pass	
				4	19.61	0.68	20.29	<=30	Pass	
				7	19.54	0.68	20.22	<=30	Pass	
15	0			19.55	0.68	20.23	<=30	Pass		
1732.5	1			0	20.62	0.68	21.30	<=30	Pass	
				7	20.74	0.68	21.42	<=30	Pass	
			14	20.54	0.68	21.22	<=30	Pass		
	8		0	19.43	0.68	20.11	<=30	Pass		
			4	19.44	0.68	20.12	<=30	Pass		
			7	19.41	0.68	20.09	<=30	Pass		
	15		0	19.41	0.68	20.09	<=30	Pass		
	1753.5		1	0	20.66	0.68	21.34	<=30	Pass	
				7	20.82	0.68	21.50	<=30	Pass	
14				20.65	0.68	21.33	<=30	Pass		
8			0	19.37	0.68	20.05	<=30	Pass		
			4	19.40	0.68	20.08	<=30	Pass		
			7	19.36	0.68	20.04	<=30	Pass		
15			0	19.24	0.68	19.92	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 1.3 B4\_5MHz\_EIRP

### 1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1712.5	1	0	21.88	0.68	22.56	<=30	Pass		
			13	21.46	0.68	22.14	<=30	Pass		
			24	21.37	0.68	22.05	<=30	Pass		
		12	0	20.43	0.68	21.11	<=30	Pass		
			6	20.46	0.68	21.14	<=30	Pass		
			13	20.32	0.68	21.00	<=30	Pass		
		25	0	20.40	0.68	21.08	<=30	Pass		
		1732.5	1	0	21.30	0.68	21.98	<=30	Pass	
				13	21.36	0.68	22.04	<=30	Pass	
	24			21.28	0.68	21.96	<=30	Pass		
	12		0	20.33	0.68	21.01	<=30	Pass		
			6	20.40	0.68	21.08	<=30	Pass		
			13	20.32	0.68	21.00	<=30	Pass		
	25		0	20.38	0.68	21.06	<=30	Pass		
	1752.5		1	0	21.10	0.68	21.78	<=30	Pass	
				13	21.21	0.68	21.89	<=30	Pass	
		24		21.08	0.68	21.76	<=30	Pass		
		12	0	20.12	0.68	20.80	<=30	Pass		
			6	20.21	0.68	20.89	<=30	Pass		
			13	20.10	0.68	20.78	<=30	Pass		
		25	0	20.17	0.68	20.85	<=30	Pass		
		16QAM	1712.5	1	0	20.42	0.68	21.10	<=30	Pass
					13	20.49	0.68	21.17	<=30	Pass
	24				20.39	0.68	21.07	<=30	Pass	
12	0			19.40	0.68	20.08	<=30	Pass		
	6			19.42	0.68	20.10	<=30	Pass		
	13			19.37	0.68	20.05	<=30	Pass		
25	0			19.39	0.68	20.07	<=30	Pass		
1732.5	1			0	20.55	0.68	21.23	<=30	Pass	
				13	20.63	0.68	21.31	<=30	Pass	
			24	20.54	0.68	21.22	<=30	Pass		
	12		0	19.39	0.68	20.07	<=30	Pass		
			6	19.47	0.68	20.15	<=30	Pass		
			13	19.42	0.68	20.10	<=30	Pass		
	25		0	19.34	0.68	20.02	<=30	Pass		
	1752.5		1	0	19.90	0.68	20.58	<=30	Pass	
				13	20.01	0.68	20.69	<=30	Pass	
24				19.90	0.68	20.58	<=30	Pass		
12			0	19.12	0.68	19.80	<=30	Pass		
			6	19.19	0.68	19.87	<=30	Pass		
			13	19.15	0.68	19.83	<=30	Pass		
25			0	19.16	0.68	19.84	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

### 1.4 B4\_10MHz\_EIRP

#### 1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1715	1	0	21.81	0.68	22.49	<=30	Pass		
			25	21.66	0.68	22.34	<=30	Pass		
			49	21.45	0.68	22.13	<=30	Pass		
		25	0	20.51	0.68	21.19	<=30	Pass		
			13	20.49	0.68	21.17	<=30	Pass		
			25	20.48	0.68	21.16	<=30	Pass		
		50	0	20.48	0.68	21.16	<=30	Pass		
		1732.5	1	0	21.38	0.68	22.06	<=30	Pass	
				25	21.52	0.68	22.20	<=30	Pass	
	49			21.30	0.68	21.98	<=30	Pass		
	25		0	20.42	0.68	21.10	<=30	Pass		
			13	20.42	0.68	21.10	<=30	Pass		
			25	20.39	0.68	21.07	<=30	Pass		
	50		0	20.41	0.68	21.09	<=30	Pass		
	1750		1	0	21.22	0.68	21.90	<=30	Pass	
				25	21.41	0.68	22.09	<=30	Pass	
		49		21.13	0.68	21.81	<=30	Pass		
		25	0	20.28	0.68	20.96	<=30	Pass		
			13	20.27	0.68	20.95	<=30	Pass		
			25	20.21	0.68	20.89	<=30	Pass		
		50	0	20.22	0.68	20.90	<=30	Pass		
		16QAM	1715	1	0	20.40	0.68	21.08	<=30	Pass
					25	20.64	0.68	21.32	<=30	Pass
	49				20.43	0.68	21.11	<=30	Pass	
25	0			19.56	0.68	20.24	<=30	Pass		
	13			19.55	0.68	20.23	<=30	Pass		
	25			19.49	0.68	20.17	<=30	Pass		
50	0			19.45	0.68	20.13	<=30	Pass		
1732.5	1			0	20.57	0.68	21.25	<=30	Pass	
				25	20.71	0.68	21.39	<=30	Pass	
			49	20.38	0.68	21.06	<=30	Pass		
	25		0	19.45	0.68	20.13	<=30	Pass		
			13	19.50	0.68	20.18	<=30	Pass		
			25	19.44	0.68	20.12	<=30	Pass		
	50		0	19.44	0.68	20.12	<=30	Pass		
	1750		1	0	20.63	0.68	21.31	<=30	Pass	
				25	20.79	0.68	21.47	<=30	Pass	
49				20.55	0.68	21.23	<=30	Pass		
25			0	19.31	0.68	19.99	<=30	Pass		
			13	19.23	0.68	19.91	<=30	Pass		
			25	19.22	0.68	19.90	<=30	Pass		
50			0	19.20	0.68	19.88	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 1.5 B4\_15MHz\_EIRP

### 1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1717.5	1	0	21.78	0.68	22.46	<=30	Pass		
			38	21.96	0.68	22.64	<=30	Pass		
			74	21.73	0.68	22.41	<=30	Pass		
		36	0	20.98	0.68	21.66	<=30	Pass		
			18	21.02	0.68	21.70	<=30	Pass		
			39	20.94	0.68	21.62	<=30	Pass		
		75	0	20.97	0.68	21.65	<=30	Pass		
		1732.5	1	0	21.73	0.68	22.41	<=30	Pass	
				38	21.83	0.68	22.51	<=30	Pass	
	74			21.61	0.68	22.29	<=30	Pass		
	36		0	20.87	0.68	21.55	<=30	Pass		
			18	20.92	0.68	21.60	<=30	Pass		
			39	20.93	0.68	21.61	<=30	Pass		
	75		0	20.87	0.68	21.55	<=30	Pass		
	1747.5		1	0	21.56	0.68	22.24	<=30	Pass	
				38	21.75	0.68	22.43	<=30	Pass	
		74		21.48	0.68	22.16	<=30	Pass		
		36	0	20.81	0.68	21.49	<=30	Pass		
			18	20.80	0.68	21.48	<=30	Pass		
			39	20.71	0.68	21.39	<=30	Pass		
		75	0	20.80	0.68	21.48	<=30	Pass		
		16QAM	1717.5	1	0	21.08	0.68	21.76	<=30	Pass
					38	21.22	0.68	21.90	<=30	Pass
	74				21.09	0.68	21.77	<=30	Pass	
36	0			19.95	0.68	20.63	<=30	Pass		
	18			19.95	0.68	20.63	<=30	Pass		
	39			19.94	0.68	20.62	<=30	Pass		
75	0			19.91	0.68	20.59	<=30	Pass		
1732.5	1			0	20.86	0.68	21.54	<=30	Pass	
				38	20.98	0.68	21.66	<=30	Pass	
			74	20.73	0.68	21.41	<=30	Pass		
	36		0	19.86	0.68	20.54	<=30	Pass		
			18	19.91	0.68	20.59	<=30	Pass		
			39	19.86	0.68	20.54	<=30	Pass		
	75		0	19.87	0.68	20.55	<=30	Pass		
	1747.5		1	0	21.04	0.68	21.72	<=30	Pass	
				38	21.13	0.68	21.81	<=30	Pass	
74				20.88	0.68	21.56	<=30	Pass		
36			0	19.82	0.68	20.50	<=30	Pass		
			18	19.77	0.68	20.45	<=30	Pass		
			39	19.67	0.68	20.35	<=30	Pass		
75			0	19.71	0.68	20.39	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 1.6 B4\_20MHz\_EIRP

### 1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN							
Modulation	Frequency	RB Allocation	Conducted Power	Gain	EIRP (dBm)	Verdict	

	(MHz)	Size	Offset	(dBm)	(dBi)	Result	Limit			
QPSK	1720	1	0	21.57	0.68	22.25	<=30	Pass		
			50	22.06	0.68	22.74	<=30	Pass		
			99	21.56	0.68	22.24	<=30	Pass		
		50	0	20.94	0.68	21.62	<=30	Pass		
			25	20.96	0.68	21.64	<=30	Pass		
			50	20.89	0.68	21.57	<=30	Pass		
		100	0	20.91	0.68	21.59	<=30	Pass		
		1732.5	1	0	21.59	0.68	22.27	<=30	Pass	
				50	22.01	0.68	22.69	<=30	Pass	
	99			21.47	0.68	22.15	<=30	Pass		
	50		0	20.83	0.68	21.51	<=30	Pass		
			25	20.86	0.68	21.54	<=30	Pass		
			50	20.81	0.68	21.49	<=30	Pass		
	100		0	20.80	0.68	21.48	<=30	Pass		
	1745		1	0	21.47	0.68	22.15	<=30	Pass	
				50	21.91	0.68	22.59	<=30	Pass	
		99		21.35	0.68	22.03	<=30	Pass		
		50	0	20.70	0.68	21.38	<=30	Pass		
			25	20.72	0.68	21.40	<=30	Pass		
			50	20.56	0.68	21.24	<=30	Pass		
		100	0	20.66	0.68	21.34	<=30	Pass		
		16QAM	1720	1	0	21.05	0.68	21.73	<=30	Pass
					50	21.54	0.68	22.22	<=30	Pass
	99				21.07	0.68	21.75	<=30	Pass	
50	0			19.92	0.68	20.60	<=30	Pass		
	25			19.93	0.68	20.61	<=30	Pass		
	50			19.85	0.68	20.53	<=30	Pass		
100	0			19.96	0.68	20.64	<=30	Pass		
1732.5	1			0	20.78	0.68	21.46	<=30	Pass	
				50	21.16	0.68	21.84	<=30	Pass	
			99	20.58	0.68	21.26	<=30	Pass		
	50		0	19.83	0.68	20.51	<=30	Pass		
			25	19.84	0.68	20.52	<=30	Pass		
			50	19.81	0.68	20.49	<=30	Pass		
	100		0	19.79	0.68	20.47	<=30	Pass		
	1745		1	0	20.75	0.68	21.43	<=30	Pass	
				50	21.05	0.68	21.73	<=30	Pass	
99				20.54	0.68	21.22	<=30	Pass		
50			0	19.70	0.68	20.38	<=30	Pass		
			25	19.68	0.68	20.36	<=30	Pass		
			50	19.56	0.68	20.24	<=30	Pass		
100			0	19.65	0.68	20.33	<=30	Pass		
Note1: EIRP=Conducted Power+Antenna Gain										

## 2. Frequency Stability

### 2.1 B4\_1.4MHz

#### 2.1.1 Test Result

Band: 4 / 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	1710.7	6	0	20	3.27	3.490	0.0020	-2.5 to 2.5	Pass
					3.85	-11.716	-0.0068	-2.5 to 2.5	Pass
					4.43	-20.227	-0.0118	-2.5 to 2.5	Pass
				-30	3.85	-10.057	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	-23.904	-0.0140	-2.5 to 2.5	Pass
				-10	3.85	-13.804	-0.0081	-2.5 to 2.5	Pass
				0	3.85	1.945	0.0011	-2.5 to 2.5	Pass
				10	3.85	-14.319	-0.0084	-2.5 to 2.5	Pass
				30	3.85	-12.531	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-16.451	-0.0096	-2.5 to 2.5	Pass
	50	3.85	-15.292	-0.0089	-2.5 to 2.5	Pass			
	1732.5	6	0	20	3.27	-24.848	-0.0143	-2.5 to 2.5	Pass
					3.85	-15.149	-0.0087	-2.5 to 2.5	Pass
					4.43	-10.386	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	18.797	0.0108	-2.5 to 2.5	Pass
				-20	3.85	-13.604	-0.0079	-2.5 to 2.5	Pass
				-10	3.85	-12.817	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-12.674	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-14.677	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-16.694	-0.0096	-2.5 to 2.5	Pass
				40	3.85	70.310	0.0406	-2.5 to 2.5	Pass
	50	3.85	4.506	0.0026	-2.5 to 2.5	Pass			
	1754.3	6	0	20	3.27	-23.103	-0.0132	-2.5 to 2.5	Pass
					3.85	8.082	0.0046	-2.5 to 2.5	Pass
					4.43	-1.802	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-7.181	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-9.913	-0.0057	-2.5 to 2.5	Pass
				0	3.85	-9.470	-0.0054	-2.5 to 2.5	Pass
				10	3.85	-8.626	-0.0049	-2.5 to 2.5	Pass
30				3.85	-3.119	-0.0018	-2.5 to 2.5	Pass	
40				3.85	-8.955	-0.0051	-2.5 to 2.5	Pass	
50	3.85	-10.271	-0.0059	-2.5 to 2.5	Pass				
16QAM	1710.7	6	0	20	3.27	1.802	0.0011	-2.5 to 2.5	Pass
					3.85	-7.353	-0.0043	-2.5 to 2.5	Pass
					4.43	-11.015	-0.0064	-2.5 to 2.5	Pass
				-30	3.85	-11.015	-0.0064	-2.5 to 2.5	Pass
				-20	3.85	-11.673	-0.0068	-2.5 to 2.5	Pass
				-10	3.85	-11.745	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-15.392	-0.0090	-2.5 to 2.5	Pass
				10	3.85	26.836	0.0157	-2.5 to 2.5	Pass
				30	3.85	12.760	0.0075	-2.5 to 2.5	Pass
				40	3.85	-8.955	-0.0052	-2.5 to 2.5	Pass
	50	3.85	-9.856	-0.0058	-2.5 to 2.5	Pass			
	1732.5	6	0	20	3.27	-6.437	-0.0037	-2.5 to 2.5	Pass
					3.85	-5.322	-0.0031	-2.5 to 2.5	Pass
					4.43	-10.157	-0.0059	-2.5 to 2.5	Pass
				-30	3.85	-1.459	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-8.326	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-4.964	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-7.167	-0.0041	-2.5 to 2.5	Pass
10				3.85	-10.328	-0.0060	-2.5 to 2.5	Pass	
30	3.85	-6.866	-0.0040	-2.5 to 2.5	Pass				

	1754.3	6	0	40	3.85	-9.642	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-4.992	-0.0029	-2.5 to 2.5	Pass
				20	3.27	8.197	0.0047	-2.5 to 2.5	Pass
					3.85	-8.426	-0.0048	-2.5 to 2.5	Pass
					4.43	-7.124	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-4.048	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	1.874	0.0011	-2.5 to 2.5	Pass
				-10	3.85	3.891	0.0022	-2.5 to 2.5	Pass
				0	3.85	1.631	0.0009	-2.5 to 2.5	Pass
				10	3.85	-10.457	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-8.998	-0.0051	-2.5 to 2.5	Pass
				40	3.85	2.289	0.0013	-2.5 to 2.5	Pass
				50	3.85	2.604	0.0015	-2.5 to 2.5	Pass

## 2.2 B4\_3MHz

### 2.2.1 Test Result

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.27	-0.072	0.0000	-2.5 to 2.5	Pass
					3.85	12.875	0.0075	-2.5 to 2.5	Pass
					4.43	10.571	0.0062	-2.5 to 2.5	Pass
				-30	3.85	3.004	0.0018	-2.5 to 2.5	Pass
				-20	3.85	-1.416	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-4.249	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-5.050	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-7.710	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-10.042	-0.0059	-2.5 to 2.5	Pass
				40	3.85	-11.830	-0.0069	-2.5 to 2.5	Pass
	50	3.85	-5.264	-0.0031	-2.5 to 2.5	Pass			
	1732.5	15	0	20	3.27	-28.996	-0.0167	-2.5 to 2.5	Pass
					3.85	-10.757	-0.0062	-2.5 to 2.5	Pass
					4.43	2.103	0.0012	-2.5 to 2.5	Pass
				-30	3.85	-7.567	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-10.743	-0.0062	-2.5 to 2.5	Pass
				-10	3.85	-14.176	-0.0082	-2.5 to 2.5	Pass
				0	3.85	-9.813	-0.0057	-2.5 to 2.5	Pass
				10	3.85	55.346	0.0319	-2.5 to 2.5	Pass
				30	3.85	4.935	0.0028	-2.5 to 2.5	Pass
				40	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
	50	3.85	-10.414	-0.0060	-2.5 to 2.5	Pass			
	1753.5	15	0	20	3.27	-17.996	-0.0103	-2.5 to 2.5	Pass
					3.85	-14.820	-0.0085	-2.5 to 2.5	Pass
					4.43	-7.381	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-7.911	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-13.747	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-6.495	-0.0037	-2.5 to 2.5	Pass
				0	3.85	2.217	0.0013	-2.5 to 2.5	Pass
				10	3.85	2.460	0.0014	-2.5 to 2.5	Pass
30				3.85	-10.843	-0.0062	-2.5 to 2.5	Pass	



				40	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-9.456	-0.0054	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-12.903	-0.0075	-2.5 to 2.5	Pass
					3.85	-18.411	-0.0108	-2.5 to 2.5	Pass
					4.43	-5.536	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-5.836	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-12.345	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-9.313	-0.0054	-2.5 to 2.5	Pass
				0	3.85	10.986	0.0064	-2.5 to 2.5	Pass
				10	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-0.916	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-8.440	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-17.910	-0.0105	-2.5 to 2.5	Pass
				1732.5	15	0	20	3.27	-10.915
	3.85	-5.565	-0.0032					-2.5 to 2.5	Pass
	4.43	-11.530	-0.0067					-2.5 to 2.5	Pass
	-30	3.85	-14.935				-0.0086	-2.5 to 2.5	Pass
	-20	3.85	0.186				0.0001	-2.5 to 2.5	Pass
	-10	3.85	-10.943				-0.0063	-2.5 to 2.5	Pass
	0	3.85	-14.877				-0.0086	-2.5 to 2.5	Pass
	10	3.85	-5.336				-0.0031	-2.5 to 2.5	Pass
	30	3.85	-10.386				-0.0060	-2.5 to 2.5	Pass
	40	3.85	-10.643				-0.0061	-2.5 to 2.5	Pass
	50	3.85	-9.484				-0.0055	-2.5 to 2.5	Pass
	1753.5	15	0				20	3.27	-2.246
				3.85	-7.453	-0.0043		-2.5 to 2.5	Pass
				4.43	0.601	0.0003		-2.5 to 2.5	Pass
				-30	3.85	-11.301	-0.0064	-2.5 to 2.5	Pass
				-20	3.85	-5.150	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-7.739	-0.0044	-2.5 to 2.5	Pass
				10	3.85	-6.609	-0.0038	-2.5 to 2.5	Pass
30				3.85	-5.693	-0.0032	-2.5 to 2.5	Pass	
40				3.85	-9.913	-0.0057	-2.5 to 2.5	Pass	
50				3.85	-15.750	-0.0090	-2.5 to 2.5	Pass	

## 2.3 B4\_5MHz

### 2.3.1 Test Result

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.27	-0.558	-0.0003	-2.5 to 2.5	Pass
					3.85	6.509	0.0038	-2.5 to 2.5	Pass
					4.43	6.008	0.0035	-2.5 to 2.5	Pass
				-30	3.85	2.732	0.0016	-2.5 to 2.5	Pass
				-20	3.85	1.431	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-3.948	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-3.633	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-10.471	-0.0061	-2.5 to 2.5	Pass

	1732.5	25	0	40	3.85	-5.836	-0.0034	-2.5 to 2.5	Pass				
				50	3.85	-6.738	-0.0039	-2.5 to 2.5	Pass				
				20	3.27	-18.768	-0.0108	-2.5 to 2.5	Pass				
					3.85	-5.593	-0.0032	-2.5 to 2.5	Pass				
					4.43	-10.071	-0.0058	-2.5 to 2.5	Pass				
				-30	3.85	0.529	0.0003	-2.5 to 2.5	Pass				
				-20	3.85	-5.078	-0.0029	-2.5 to 2.5	Pass				
				-10	3.85	-4.792	-0.0028	-2.5 to 2.5	Pass				
				0	3.85	-4.120	-0.0024	-2.5 to 2.5	Pass				
				10	3.85	-10.371	-0.0060	-2.5 to 2.5	Pass				
				30	3.85	-8.383	-0.0048	-2.5 to 2.5	Pass				
				40	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass				
				50	3.85	-4.320	-0.0025	-2.5 to 2.5	Pass				
	1752.5	25	0	20	3.27	-16.279	-0.0093	-2.5 to 2.5	Pass				
					3.85	-0.672	-0.0004	-2.5 to 2.5	Pass				
					4.43	-9.155	-0.0052	-2.5 to 2.5	Pass				
				-30	3.85	7.181	0.0041	-2.5 to 2.5	Pass				
				-20	3.85	-8.283	-0.0047	-2.5 to 2.5	Pass				
				-10	3.85	-7.267	-0.0041	-2.5 to 2.5	Pass				
				0	3.85	-5.107	-0.0029	-2.5 to 2.5	Pass				
				10	3.85	-11.044	-0.0063	-2.5 to 2.5	Pass				
				30	3.85	-7.353	-0.0042	-2.5 to 2.5	Pass				
				40	3.85	-6.266	-0.0036	-2.5 to 2.5	Pass				
				50	3.85	-6.108	-0.0035	-2.5 to 2.5	Pass				
				16QAM	1712.5	25	0	20	3.27	-8.640	-0.0050	-2.5 to 2.5	Pass
									3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
	4.43	-5.865	-0.0034					-2.5 to 2.5	Pass				
-30	3.85	-2.103	-0.0012					-2.5 to 2.5	Pass				
-20	3.85	-10.700	-0.0062					-2.5 to 2.5	Pass				
-10	3.85	-6.166	-0.0036					-2.5 to 2.5	Pass				
0	3.85	-7.868	-0.0046					-2.5 to 2.5	Pass				
10	3.85	-3.119	-0.0018					-2.5 to 2.5	Pass				
30	3.85	-0.458	-0.0003					-2.5 to 2.5	Pass				
40	3.85	0.100	0.0001					-2.5 to 2.5	Pass				
50	3.85	-4.191	-0.0024					-2.5 to 2.5	Pass				
1732.5	25	0	20					3.27	-10.715	-0.0062	-2.5 to 2.5	Pass	
								3.85	3.805	0.0022	-2.5 to 2.5	Pass	
					4.43	-2.718	-0.0016	-2.5 to 2.5	Pass				
			-30		3.85	-4.692	-0.0027	-2.5 to 2.5	Pass				
			-20		3.85	-0.701	-0.0004	-2.5 to 2.5	Pass				
			-10		3.85	-5.922	-0.0034	-2.5 to 2.5	Pass				
			0		3.85	1.130	0.0007	-2.5 to 2.5	Pass				
			10		3.85	-8.941	-0.0052	-2.5 to 2.5	Pass				
			30		3.85	-2.346	-0.0014	-2.5 to 2.5	Pass				
			40		3.85	-9.842	-0.0057	-2.5 to 2.5	Pass				
			50		3.85	-10.343	-0.0060	-2.5 to 2.5	Pass				
			1752.5		25	0	20	3.27	-11.544	-0.0066	-2.5 to 2.5	Pass	
								3.85	-8.140	-0.0046	-2.5 to 2.5	Pass	
	4.43	-1.388					-0.0008	-2.5 to 2.5	Pass				
-30	3.85	-12.789					-0.0073	-2.5 to 2.5	Pass				
-20	3.85	-10.357		-0.0059			-2.5 to 2.5	Pass					
-10	3.85	-4.277		-0.0024			-2.5 to 2.5	Pass					
0	3.85	-11.659		-0.0067			-2.5 to 2.5	Pass					
10	3.85	3.805		0.0022			-2.5 to 2.5	Pass					
30	3.85	-12.789		-0.0073			-2.5 to 2.5	Pass					

				40	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				50	3.85	-6.065	-0.0035	-2.5 to 2.5	Pass

## 2.4 B4\_10MHz

### 2.4.1 Test Result

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.27	-18.697	-0.0109	-2.5 to 2.5	Pass
					3.85	2.346	0.0014	-2.5 to 2.5	Pass
					4.43	-9.871	-0.0058	-2.5 to 2.5	Pass
				-30	3.85	-13.390	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-6.123	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-5.522	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-2.675	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-5.550	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-10.901	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-8.054	-0.0047	-2.5 to 2.5	Pass
	50	3.85	-2.575	-0.0015	-2.5 to 2.5	Pass			
	1732.5	50	0	20	3.27	-9.527	-0.0055	-2.5 to 2.5	Pass
					3.85	-8.297	-0.0048	-2.5 to 2.5	Pass
					4.43	-4.678	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-7.353	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-11.444	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-3.948	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-4.520	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-7.510	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-1.702	-0.0010	-2.5 to 2.5	Pass
				40	3.85	1.101	0.0006	-2.5 to 2.5	Pass
	50	3.85	-5.593	-0.0032	-2.5 to 2.5	Pass			
	1750	50	0	20	3.27	-10.529	-0.0060	-2.5 to 2.5	Pass
					3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
					4.43	-1.001	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.601	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-8.883	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-7.682	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-13.433	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-7.038	-0.0040	-2.5 to 2.5	Pass
30				3.85	-7.668	-0.0044	-2.5 to 2.5	Pass	
40				3.85	-7.238	-0.0041	-2.5 to 2.5	Pass	
50	3.85	-8.168	-0.0047	-2.5 to 2.5	Pass				
16QAM	1715	50	0	20	3.27	-4.578	-0.0027	-2.5 to 2.5	Pass
					3.85	-10.929	-0.0064	-2.5 to 2.5	Pass
					4.43	-8.898	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-5.865	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-2.489	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-9.885	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-9.542	-0.0056	-2.5 to 2.5	Pass
				10	3.85	-4.005	-0.0023	-2.5 to 2.5	Pass
30	3.85	-6.967	-0.0041	-2.5 to 2.5	Pass				

	1732.5	50	0	40	3.85	-6.294	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-3.619	-0.0021	-2.5 to 2.5	Pass
				20	3.27	-7.381	-0.0043	-2.5 to 2.5	Pass
					3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
					4.43	-8.941	-0.0052	-2.5 to 2.5	Pass
					-30	3.85	-1.144	-0.0007	-2.5 to 2.5
				-20	3.85	0.744	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-4.592	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-8.926	-0.0052	-2.5 to 2.5	Pass
				30	3.85	-4.120	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-2.532	-0.0015	-2.5 to 2.5	Pass
	50	3.85	-8.655	-0.0050	-2.5 to 2.5	Pass			
	1750	50	0	20	3.27	-7.296	-0.0042	-2.5 to 2.5	Pass
					3.85	-8.841	-0.0051	-2.5 to 2.5	Pass
					4.43	-5.150	-0.0029	-2.5 to 2.5	Pass
					-30	3.85	-7.896	-0.0045	-2.5 to 2.5
				-20	3.85	2.246	0.0013	-2.5 to 2.5	Pass
				-10	3.85	-10.514	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-3.061	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-3.705	-0.0021	-2.5 to 2.5	Pass
				30	3.85	1.073	0.0006	-2.5 to 2.5	Pass
				40	3.85	-4.463	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-2.732	-0.0016	-2.5 to 2.5	Pass

## 2.5 B4\_15MHz

### 2.5.1 Test Result

Band: 4 / Bandwidth: 15MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1717.5	75	0	20	3.27	-12.116	-0.0071	-2.5 to 2.5	Pass	
					3.85	-4.449	-0.0026	-2.5 to 2.5	Pass	
					4.43	-4.735	-0.0028	-2.5 to 2.5	Pass	
					-30	3.85	-7.510	-0.0044	-2.5 to 2.5	Pass
					-20	3.85	-10.300	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-6.666	-0.0039	-2.5 to 2.5	Pass	
				0	3.85	-11.230	-0.0065	-2.5 to 2.5	Pass	
				10	3.85	-8.984	-0.0052	-2.5 to 2.5	Pass	
				30	3.85	-9.499	-0.0055	-2.5 to 2.5	Pass	
				40	3.85	-7.052	-0.0041	-2.5 to 2.5	Pass	
				50	3.85	-13.289	-0.0077	-2.5 to 2.5	Pass	
				1732.5	75	0	20	3.27	-12.274	-0.0071
	3.85	1.044	0.0006					-2.5 to 2.5	Pass	
	4.43	-5.093	-0.0029					-2.5 to 2.5	Pass	
		-30	3.85				-8.240	-0.0048	-2.5 to 2.5	Pass
		-20	3.85				-5.236	-0.0030	-2.5 to 2.5	Pass
	-10	3.85	-7.038				-0.0041	-2.5 to 2.5	Pass	
	0	3.85	-5.307				-0.0031	-2.5 to 2.5	Pass	
	10	3.85	-14.462				-0.0083	-2.5 to 2.5	Pass	
	30	3.85	-5.851				-0.0034	-2.5 to 2.5	Pass	

	1747.5	75	0	40	3.85	-6.294	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-11.215	-0.0065	-2.5 to 2.5	Pass
				20	3.27	-12.960	-0.0074	-2.5 to 2.5	Pass
					3.85	-1.273	-0.0007	-2.5 to 2.5	Pass
					4.43	1.645	0.0009	-2.5 to 2.5	Pass
				-30	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-5.922	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-0.672	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-5.493	-0.0031	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-5.021	-0.0029	-2.5 to 2.5	Pass
					3.85	-12.660	-0.0074	-2.5 to 2.5	Pass
					4.43	-6.351	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-5.908	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-4.964	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	-2.031	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-3.161	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-8.855	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-5.779	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-5.951	-0.0035	-2.5 to 2.5	Pass
				1732.5	75	0	20	3.27	-6.480
	3.85	-6.509	-0.0038					-2.5 to 2.5	Pass
		4.43	-7.854				-0.0045	-2.5 to 2.5	Pass
	-30	3.85	-4.849				-0.0028	-2.5 to 2.5	Pass
	-20	3.85	-3.762				-0.0022	-2.5 to 2.5	Pass
	-10	3.85	-5.422				-0.0031	-2.5 to 2.5	Pass
	0	3.85	-4.635				-0.0027	-2.5 to 2.5	Pass
	10	3.85	-8.898				-0.0051	-2.5 to 2.5	Pass
	30	3.85	-5.808				-0.0034	-2.5 to 2.5	Pass
	40	3.85	-4.449				-0.0026	-2.5 to 2.5	Pass
	50	3.85	-3.290				-0.0019	-2.5 to 2.5	Pass
	1747.5	75	0				20	3.27	-1.688
				3.85	-6.309	-0.0036		-2.5 to 2.5	Pass
					4.43	-2.275	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-5.207	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-6.394	-0.0037	-2.5 to 2.5	Pass
-10				3.85	-4.120	-0.0024	-2.5 to 2.5	Pass	
0				3.85	-6.266	-0.0036	-2.5 to 2.5	Pass	
10				3.85	-4.134	-0.0024	-2.5 to 2.5	Pass	
30				3.85	-5.708	-0.0033	-2.5 to 2.5	Pass	
40				3.85	-5.550	-0.0032	-2.5 to 2.5	Pass	
50				3.85	-1.774	-0.0010	-2.5 to 2.5	Pass	

## 2.6 B4\_20MHz

### 2.6.1 Test Result

Band: 4 / Bandwidth: 20MHz

Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.27	-5.851	-0.0034	-2.5 to 2.5	Pass
					3.85	-11.988	-0.0070	-2.5 to 2.5	Pass
					4.43	-8.726	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-8.969	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-6.237	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-15.707	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-8.197	-0.0048	-2.5 to 2.5	Pass
				10	3.85	-11.101	-0.0065	-2.5 to 2.5	Pass
				30	3.85	-3.018	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-7.210	-0.0042	-2.5 to 2.5	Pass
	50	3.85	-6.094	-0.0035	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.27	-11.187	-0.0065	-2.5 to 2.5	Pass
					3.85	-8.068	-0.0047	-2.5 to 2.5	Pass
					4.43	-2.518	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-1.888	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-9.141	-0.0053	-2.5 to 2.5	Pass
				10	3.85	1.674	0.0010	-2.5 to 2.5	Pass
				30	3.85	-1.230	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-0.973	-0.0006	-2.5 to 2.5	Pass
	50	3.85	0.472	0.0003	-2.5 to 2.5	Pass			
	1745	100	0	20	3.27	-15.464	-0.0089	-2.5 to 2.5	Pass
					3.85	-5.751	-0.0033	-2.5 to 2.5	Pass
					4.43	-1.745	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-5.536	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-8.197	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-4.506	-0.0026	-2.5 to 2.5	Pass
				0	3.85	0.615	0.0004	-2.5 to 2.5	Pass
				10	3.85	-2.460	-0.0014	-2.5 to 2.5	Pass
30				3.85	-2.804	-0.0016	-2.5 to 2.5	Pass	
40				3.85	-3.433	-0.0020	-2.5 to 2.5	Pass	
50	3.85	-8.469	-0.0049	-2.5 to 2.5	Pass				
16QAM	1720	100	0	20	3.27	-6.051	-0.0035	-2.5 to 2.5	Pass
					3.85	-5.980	-0.0035	-2.5 to 2.5	Pass
					4.43	-8.783	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-6.123	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-9.484	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-5.307	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-16.437	-0.0096	-2.5 to 2.5	Pass
	40	3.85	-7.596	-0.0044	-2.5 to 2.5	Pass			
	50	3.85	-5.422	-0.0032	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.27	-4.420	-0.0026	-2.5 to 2.5	Pass
					3.85	-5.951	-0.0034	-2.5 to 2.5	Pass
					4.43	1.431	0.0008	-2.5 to 2.5	Pass
				-30	3.85	-1.917	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	1.445	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-5.865	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass
10				3.85	-2.975	-0.0017	-2.5 to 2.5	Pass	
30				3.85	-6.537	-0.0038	-2.5 to 2.5	Pass	

	1745	100	0	40	3.85	-8.512	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-3.834	-0.0022	-2.5 to 2.5	Pass
				20	3.27	-6.094	-0.0035	-2.5 to 2.5	Pass
					3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
					4.43	-4.277	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-6.337	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	1.616	0.0009	-2.5 to 2.5	Pass
				0	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-9.198	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-5.193	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-7.110	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-2.160	-0.0012	-2.5 to 2.5	Pass

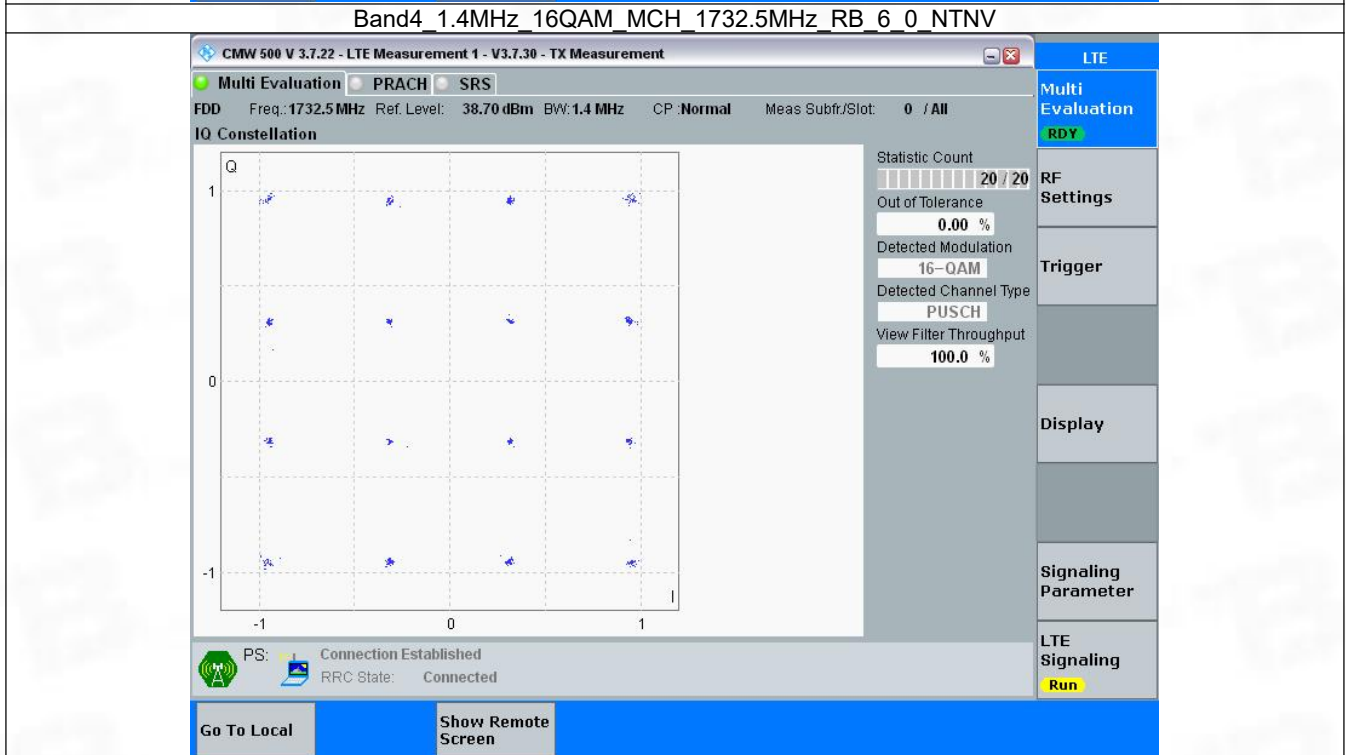
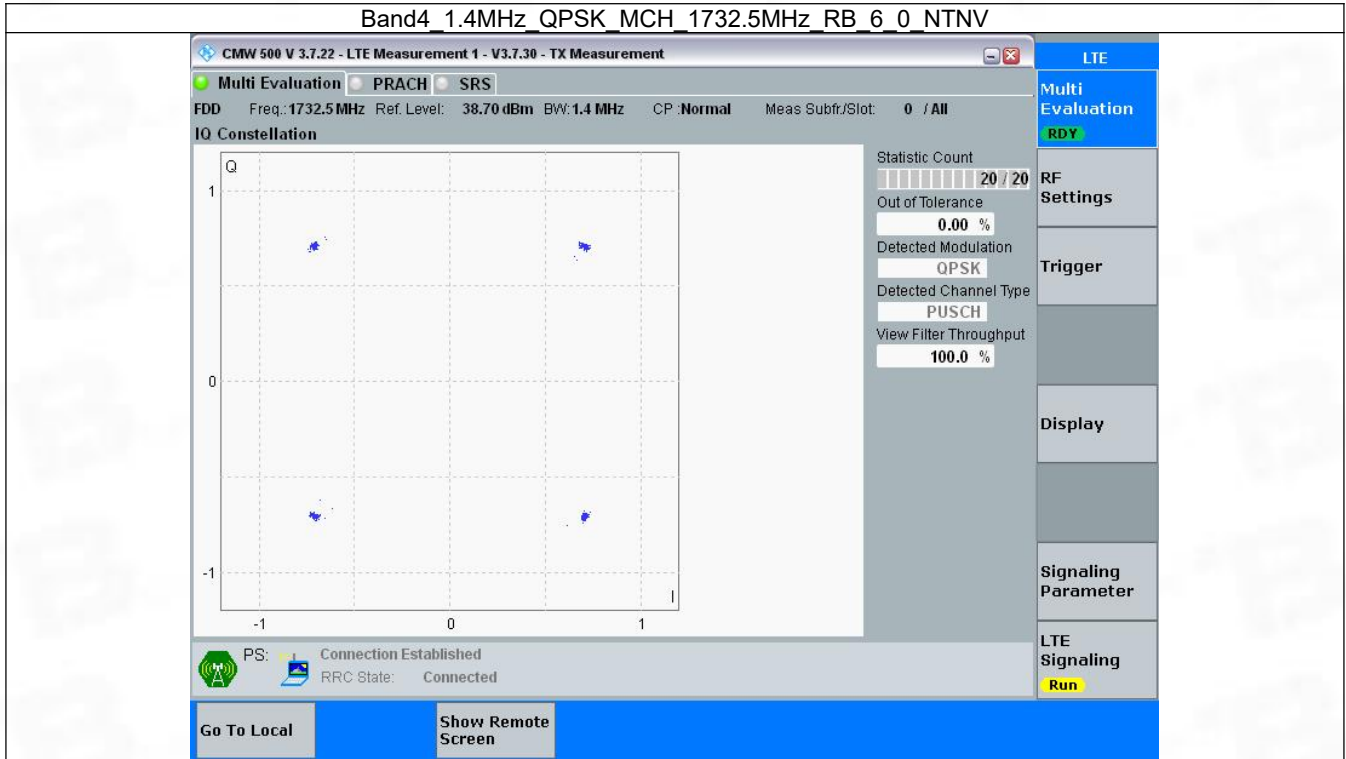
### 3. Modulation Characteristics

#### 3.1 B4\_1.4MHz

##### 3.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

### 3.1.2 Test Graph



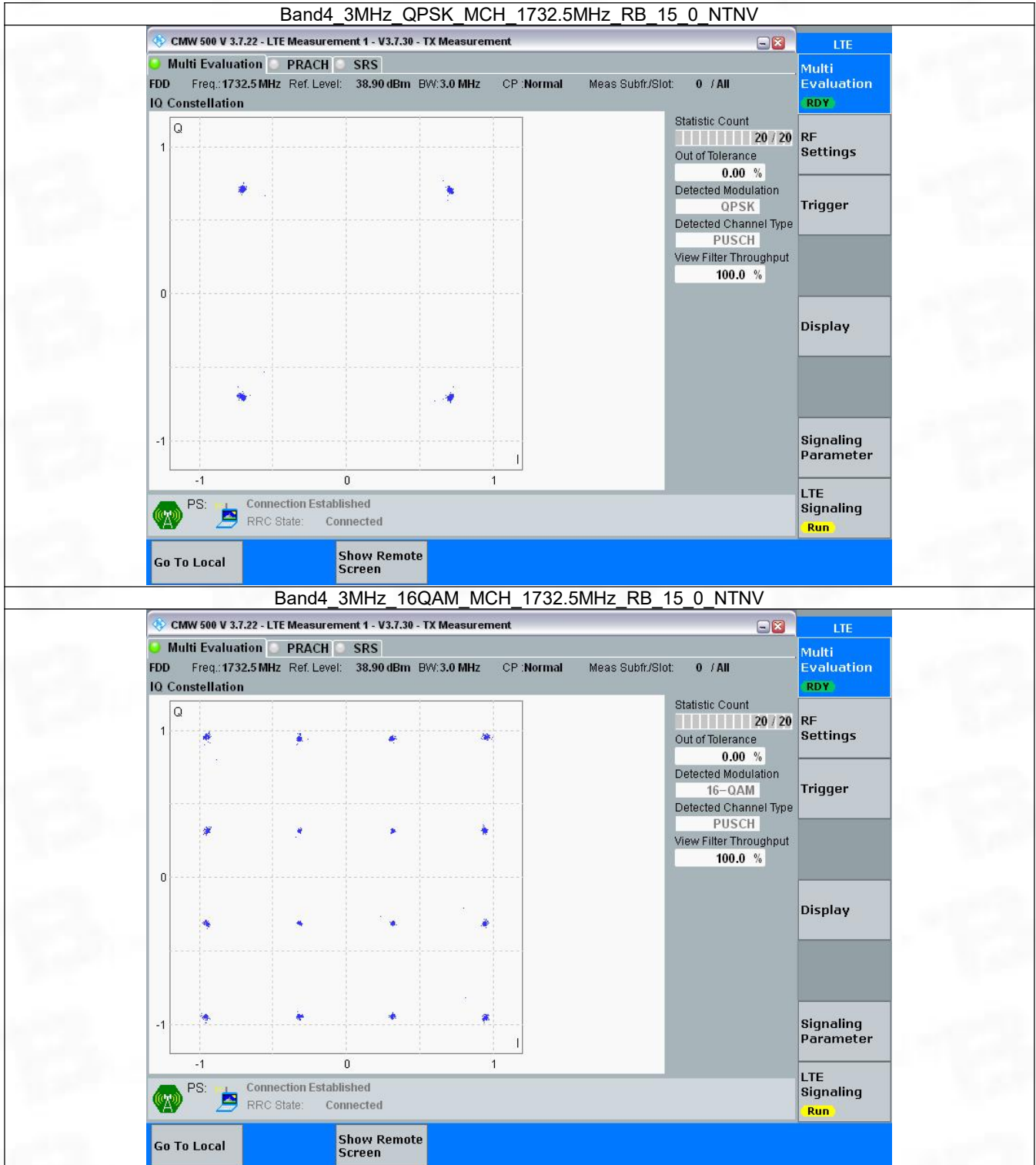


### 3.2 B4\_3MHz

#### 3.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

### 3.2.2 Test Graph

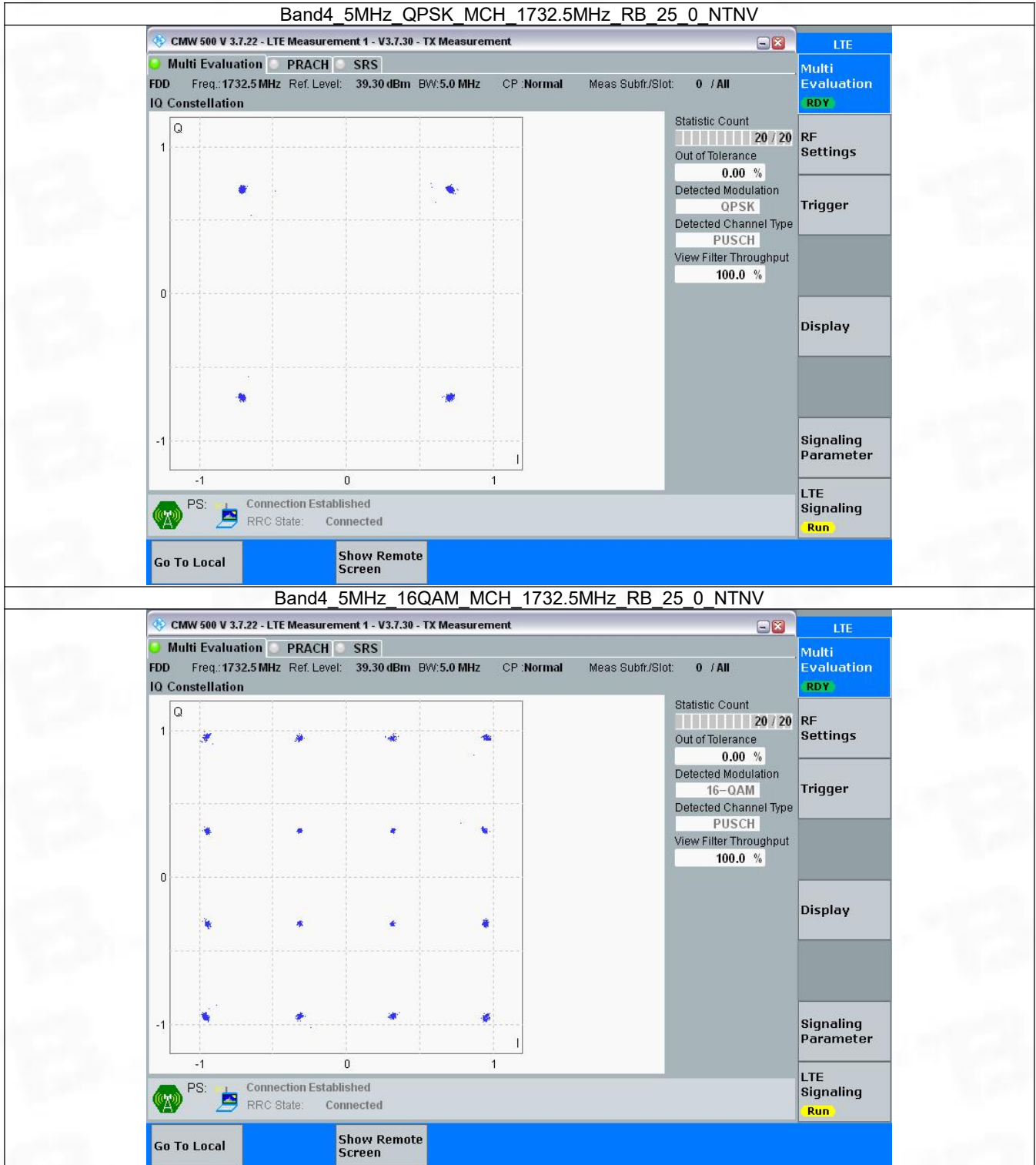


### 3.3 B4\_5MHz

#### 3.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

### 3.3.2 Test Graph

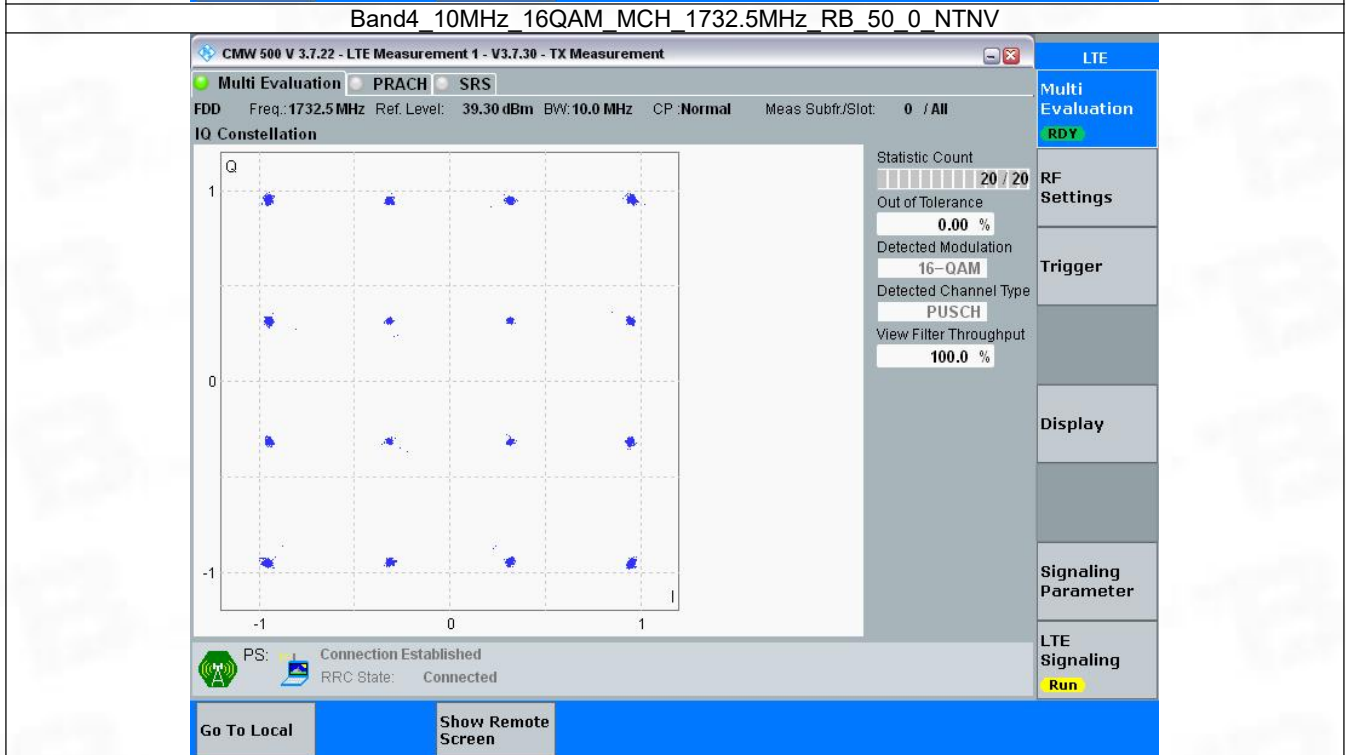
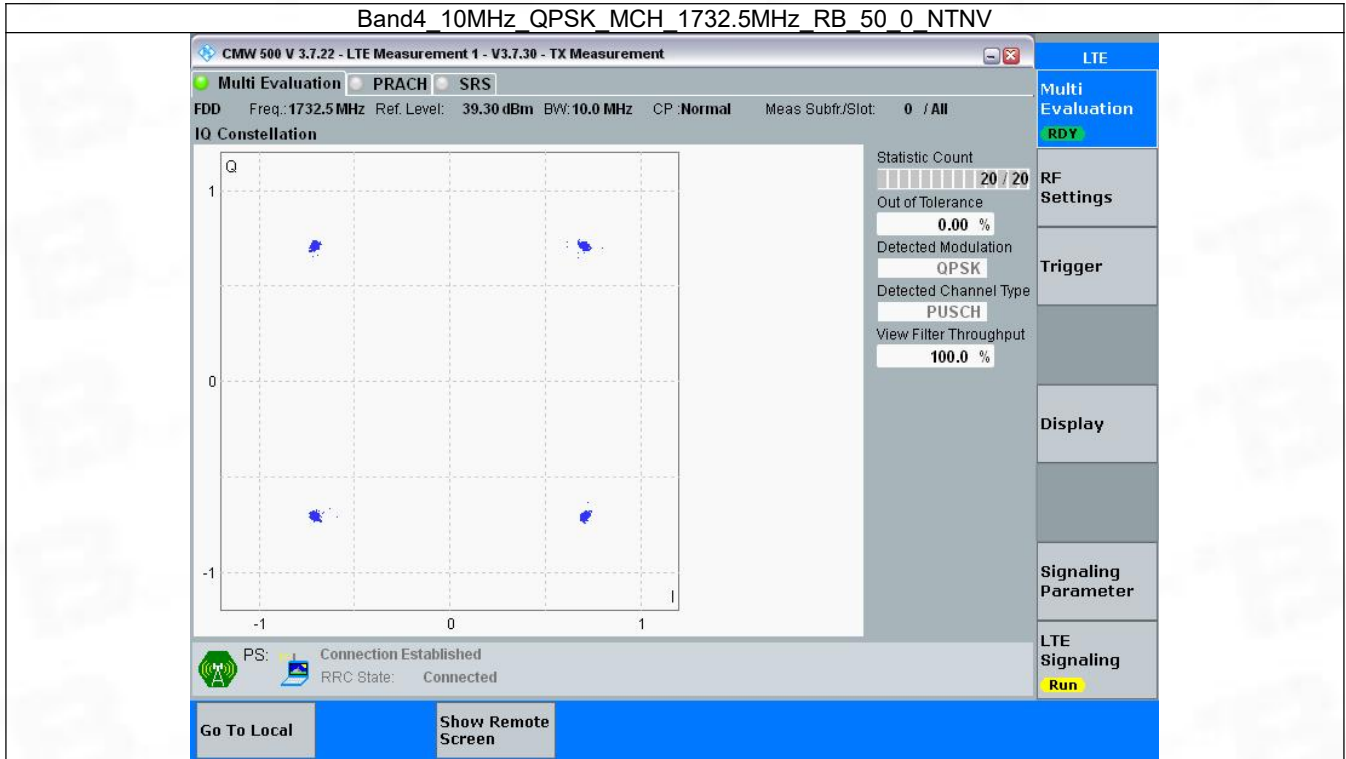


### 3.4 B4\_10MHz

#### 3.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

### 3.4.2 Test Graph

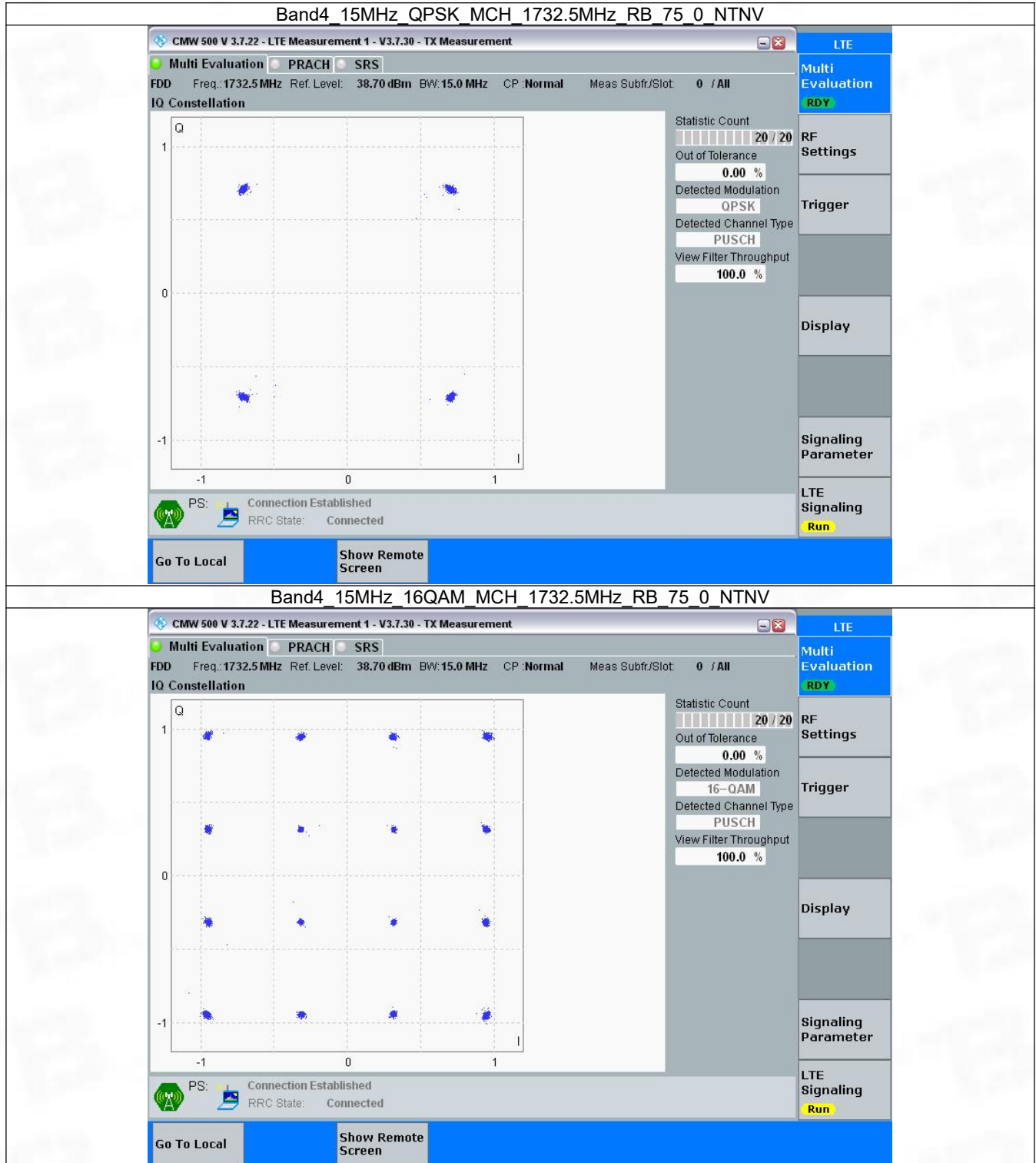


### 3.5 B4\_15MHz

#### 3.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

### 3.5.2 Test Graph



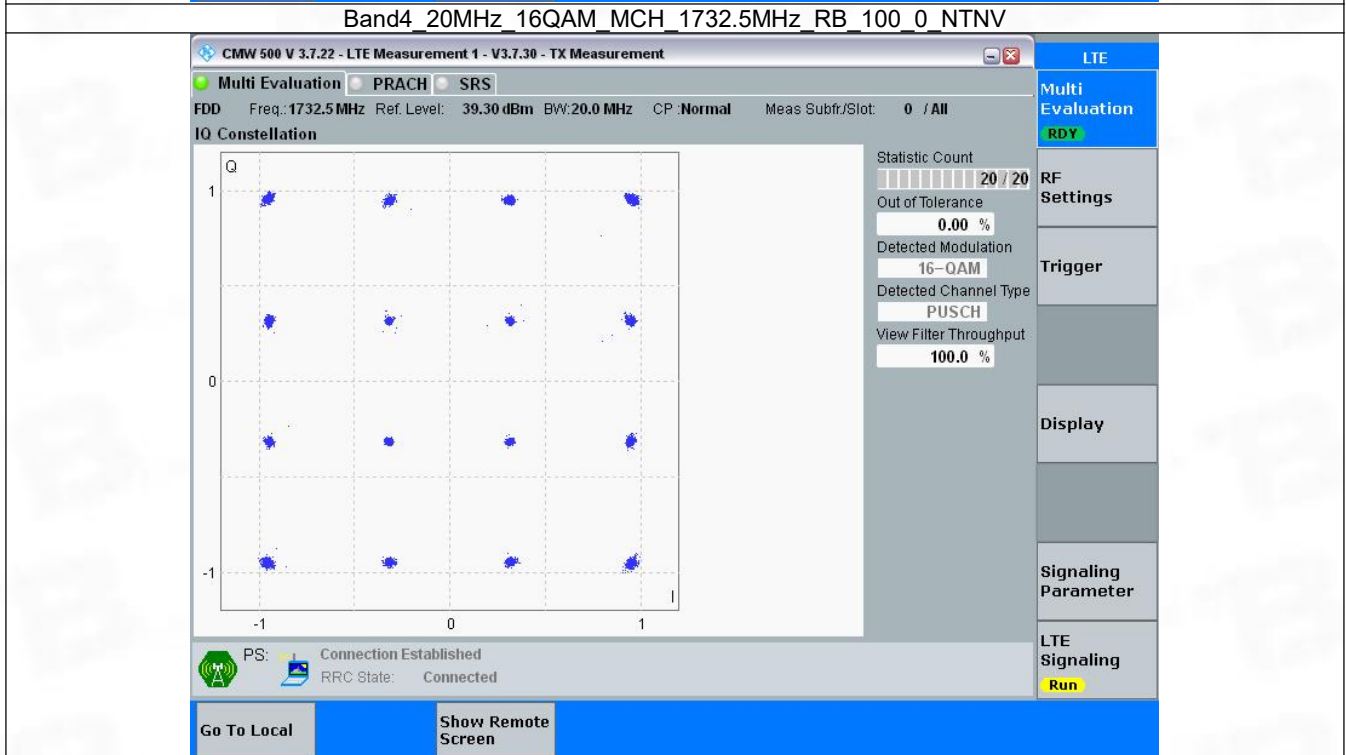
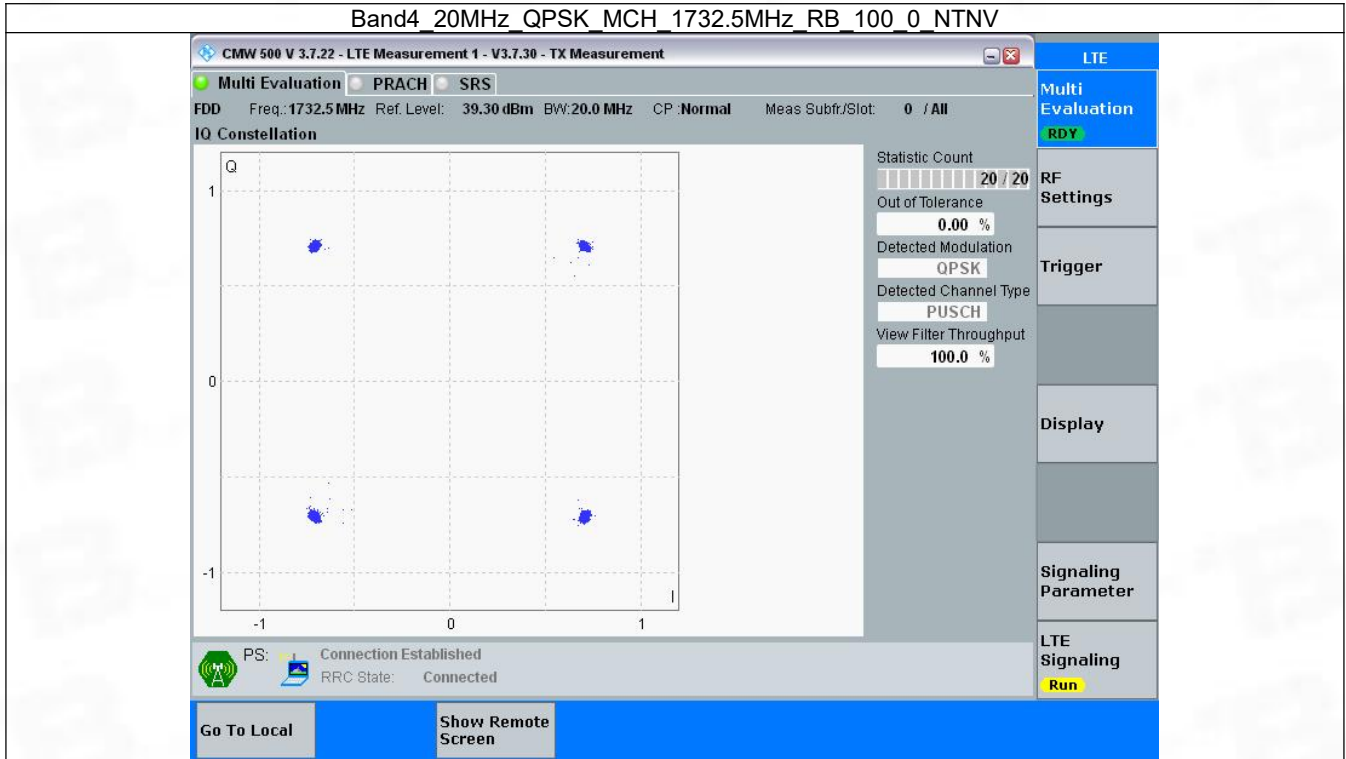


### 3.6 B4\_20MHz

#### 3.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

### 3.6.2 Test Graph



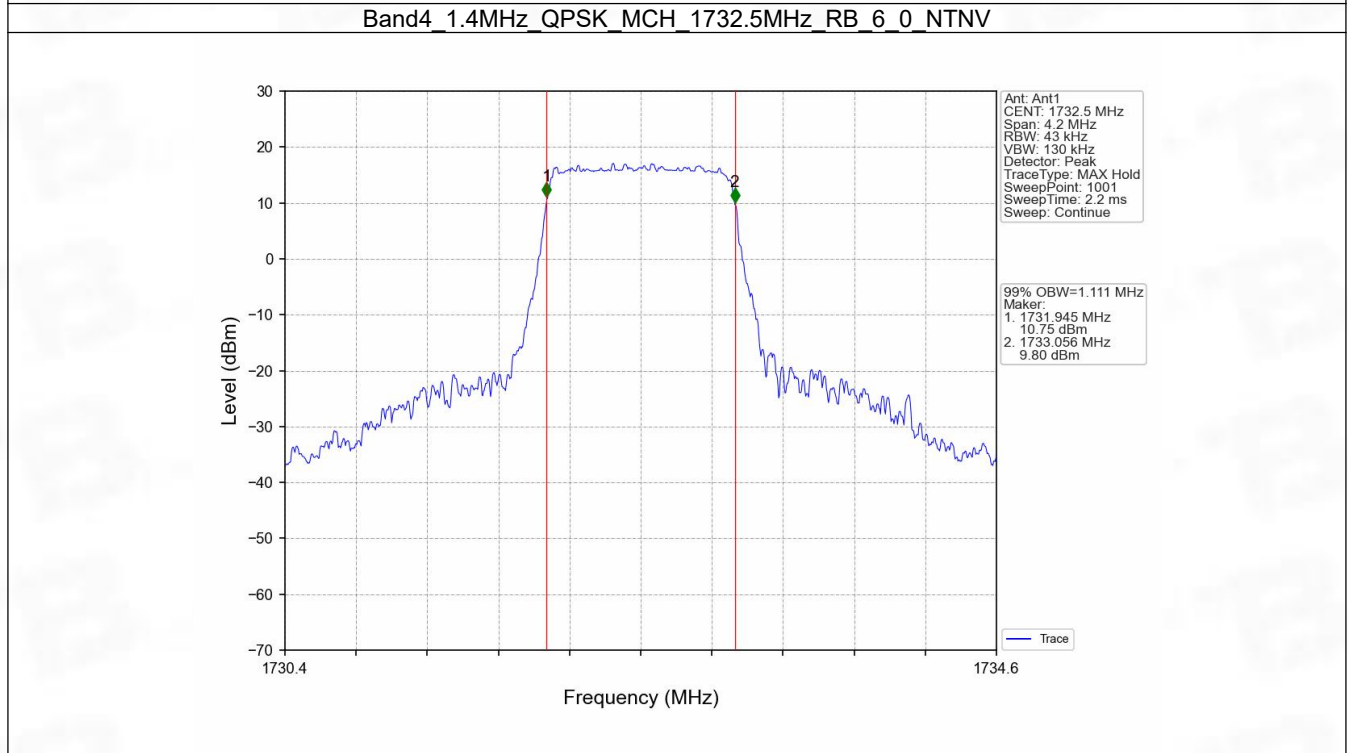
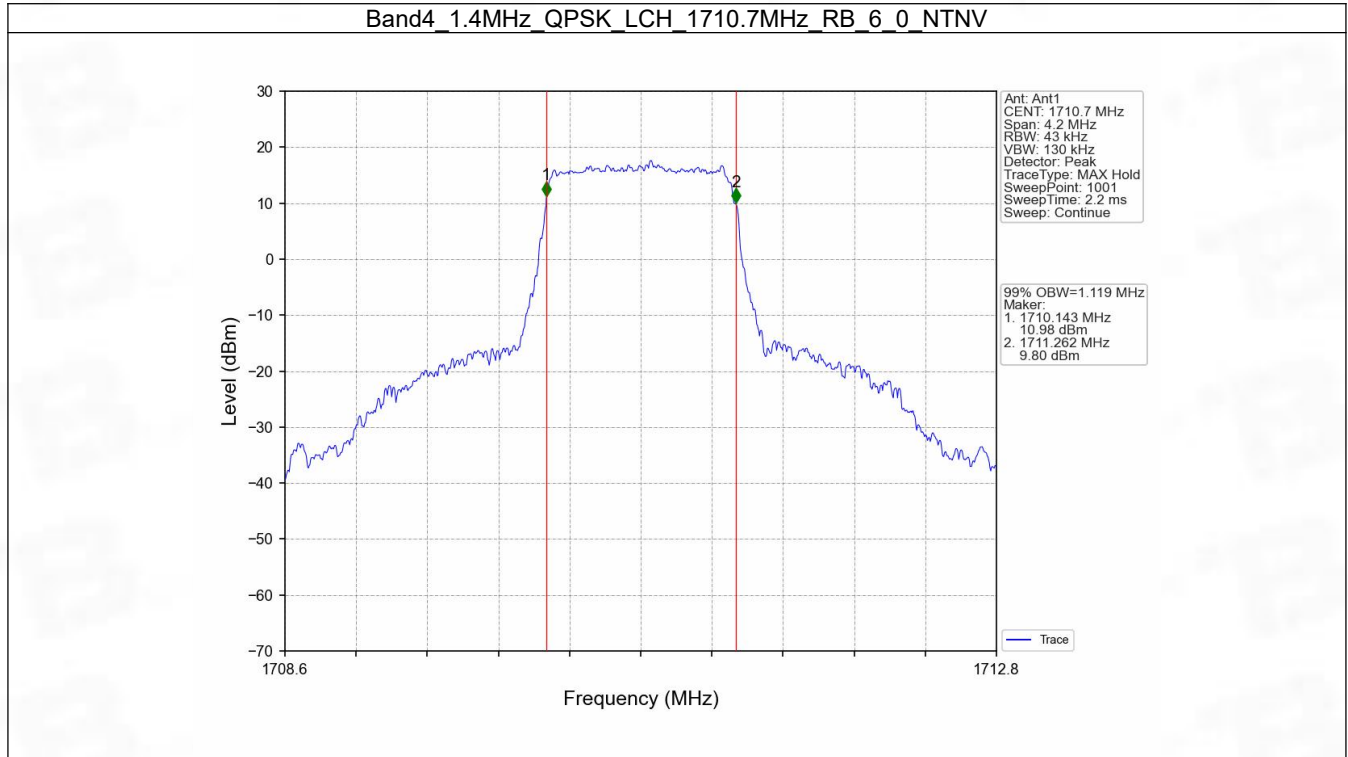
## 4. 99% & 26dB Bandwidth

### 4.1 Band4\_OBW

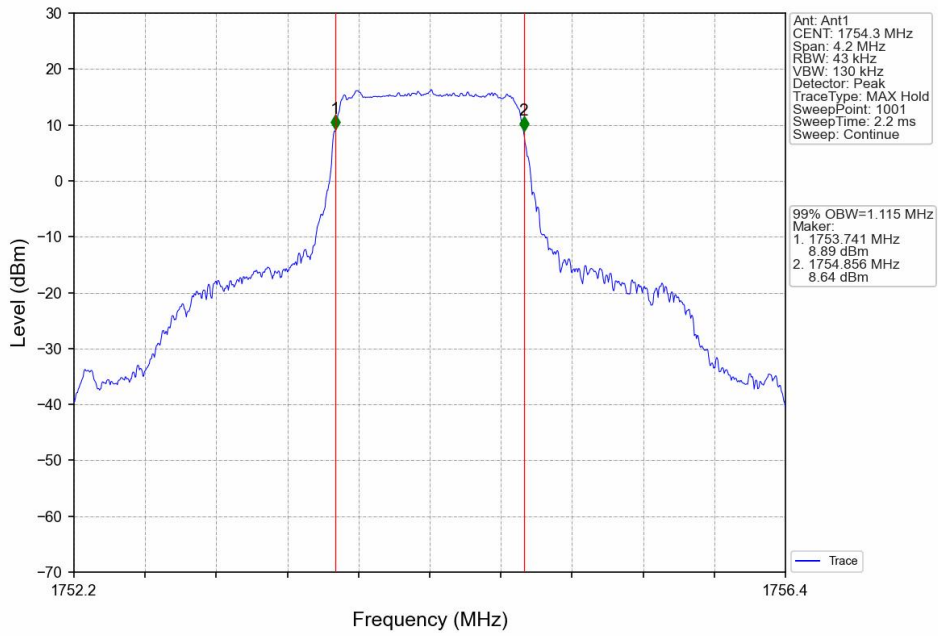
#### 4.1.1 Test Result

Band: 4 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.119	Pass
		1732.5	6	0	1.111	Pass
		1754.3	6	0	1.115	Pass
	16QAM	1710.7	6	0	1.109	Pass
		1732.5	6	0	1.107	Pass
		1754.3	6	0	1.117	Pass
3	QPSK	1711.5	15	0	2.725	Pass
		1732.5	15	0	2.728	Pass
		1753.5	15	0	2.734	Pass
	16QAM	1711.5	15	0	2.716	Pass
		1732.5	15	0	2.728	Pass
		1753.5	15	0	2.723	Pass
5	QPSK	1712.5	25	0	4.567	Pass
		1732.5	25	0	4.576	Pass
		1752.5	25	0	4.587	Pass
	16QAM	1712.5	25	0	4.597	Pass
		1732.5	25	0	4.585	Pass
		1752.5	25	0	4.553	Pass
10	QPSK	1715	50	0	9.106	Pass
		1732.5	50	0	9.057	Pass
		1750	50	0	9.100	Pass
	16QAM	1715	50	0	9.095	Pass
		1732.5	50	0	9.071	Pass
		1750	50	0	9.069	Pass
15	QPSK	1717.5	75	0	13.654	Pass
		1732.5	75	0	13.581	Pass
		1747.5	75	0	13.635	Pass
	16QAM	1717.5	75	0	13.646	Pass
		1732.5	75	0	13.613	Pass
		1747.5	75	0	13.587	Pass
20	QPSK	1720	100	0	18.197	Pass
		1732.5	100	0	18.078	Pass
		1745	100	0	18.122	Pass
	16QAM	1720	100	0	18.154	Pass
		1732.5	100	0	18.091	Pass
		1745	100	0	18.111	Pass

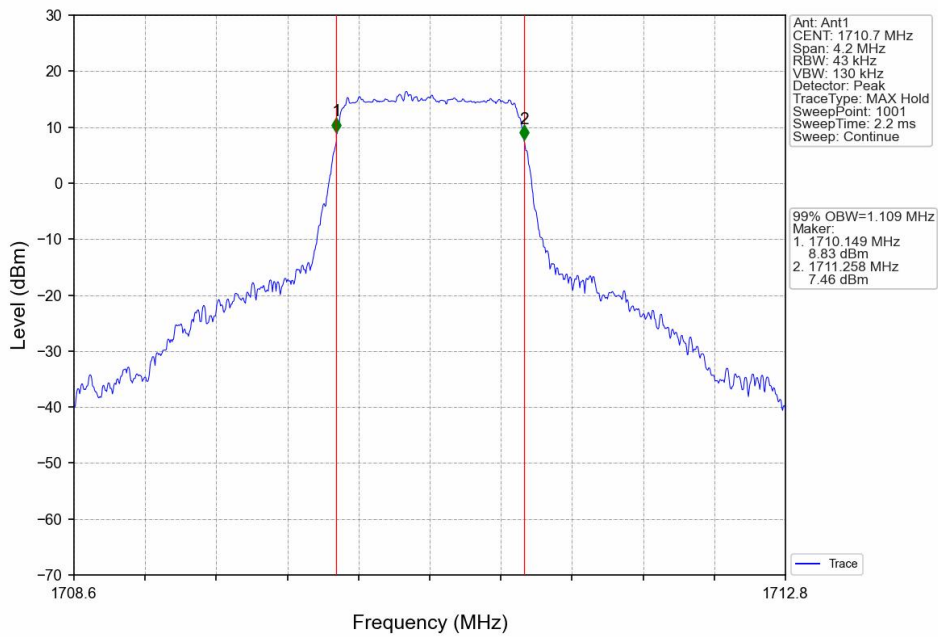
### 4.1.2 Test Graph



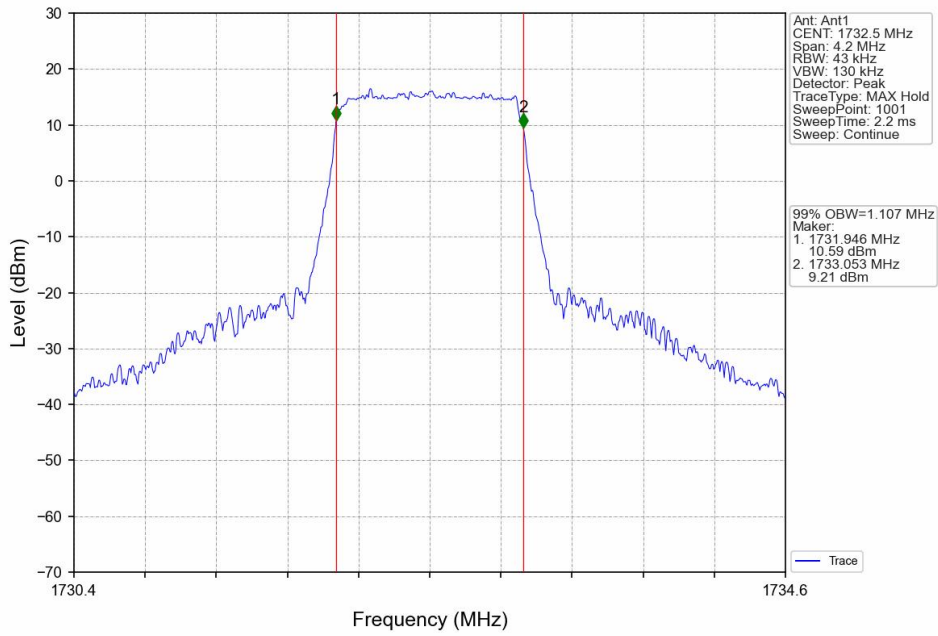
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



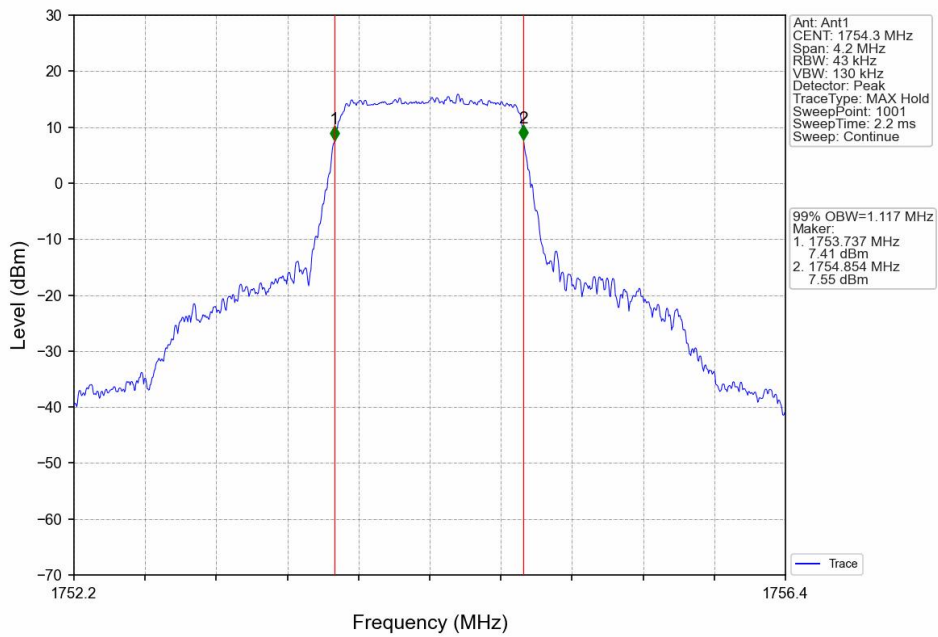
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



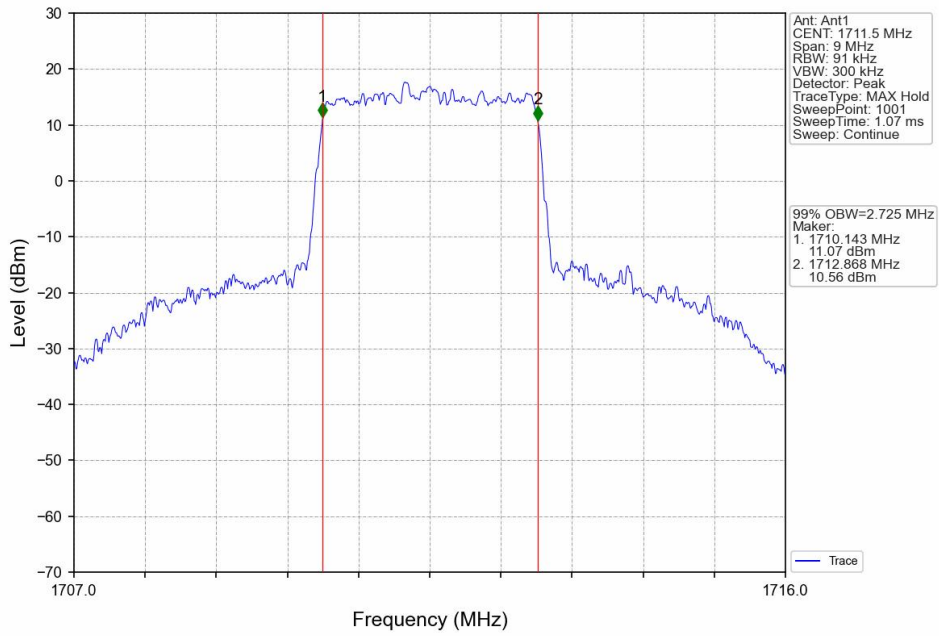
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



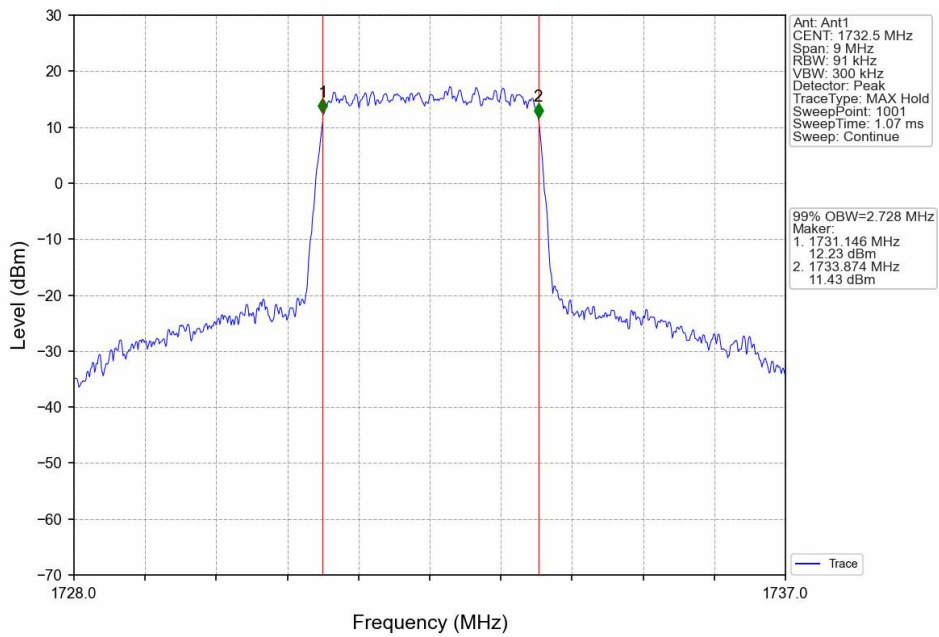
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



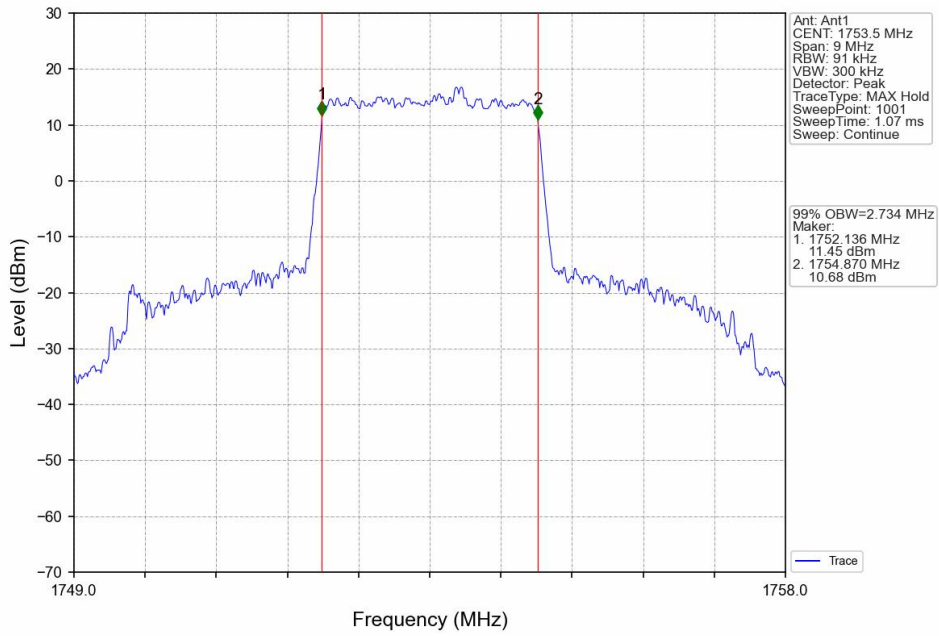
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



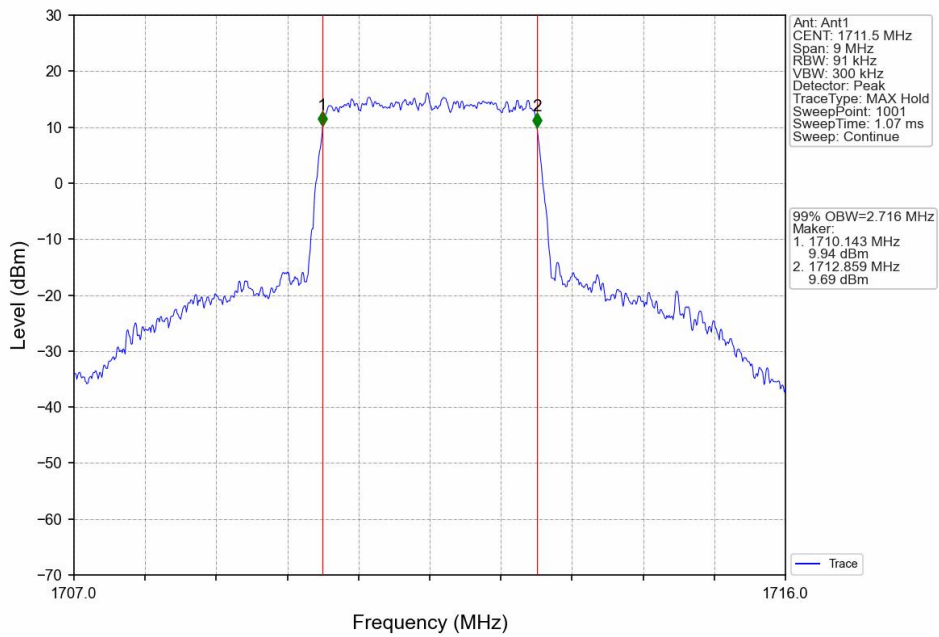
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV

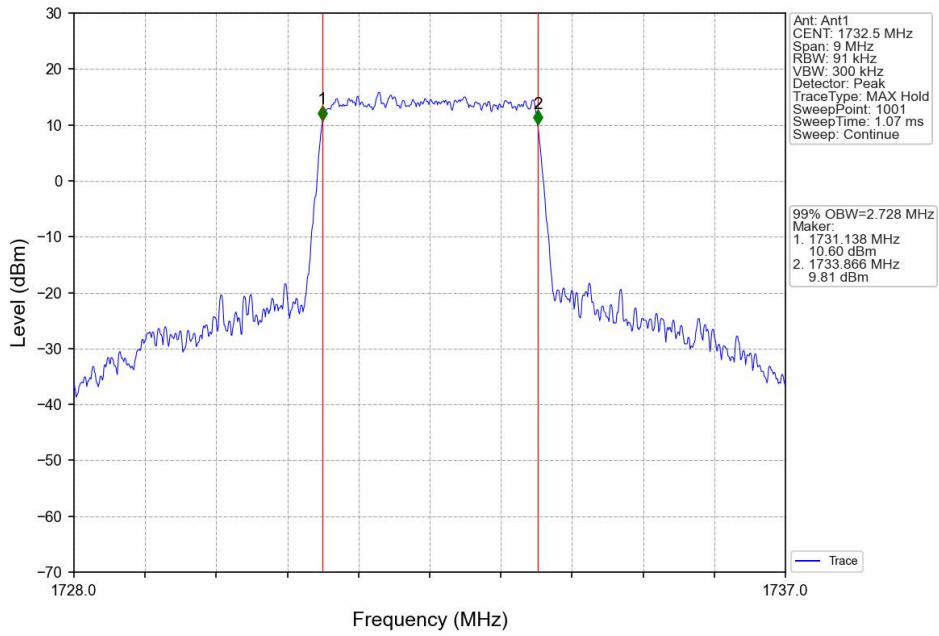


Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV

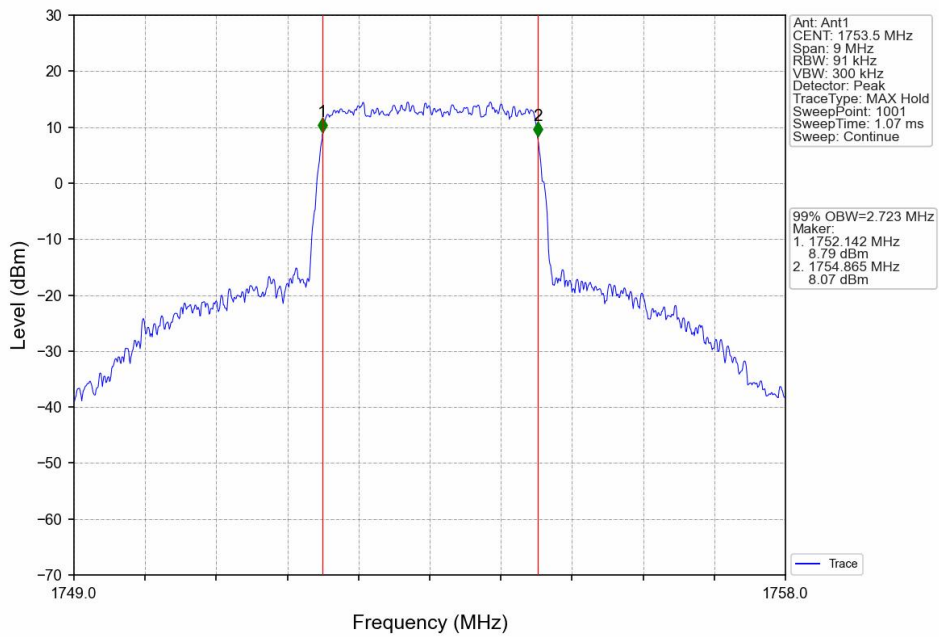




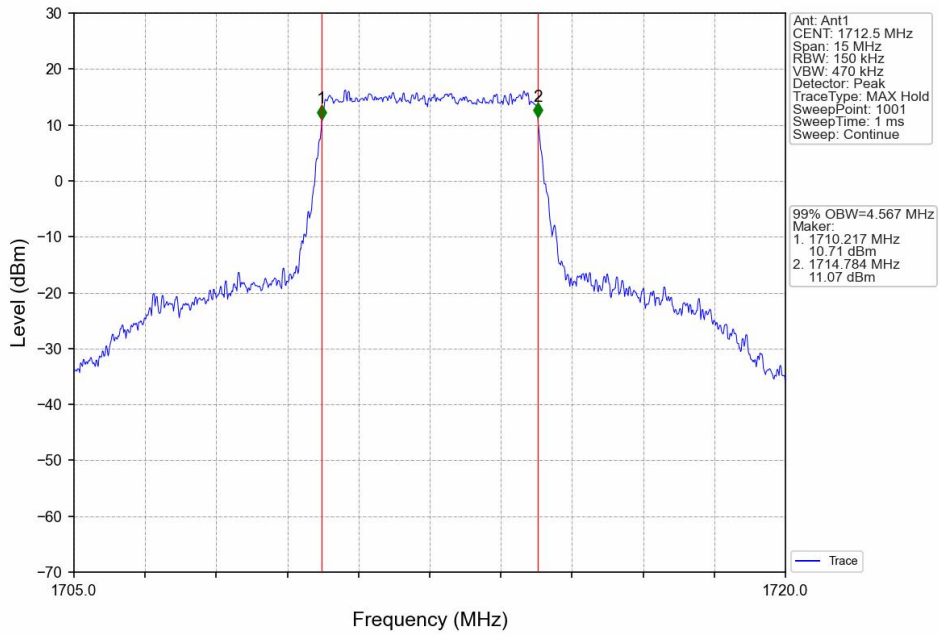
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



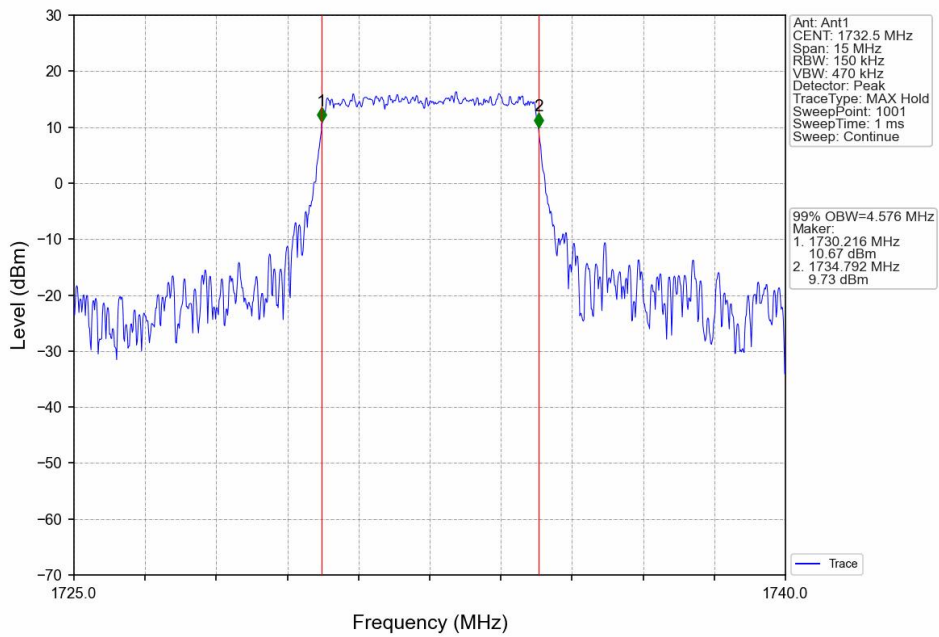
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



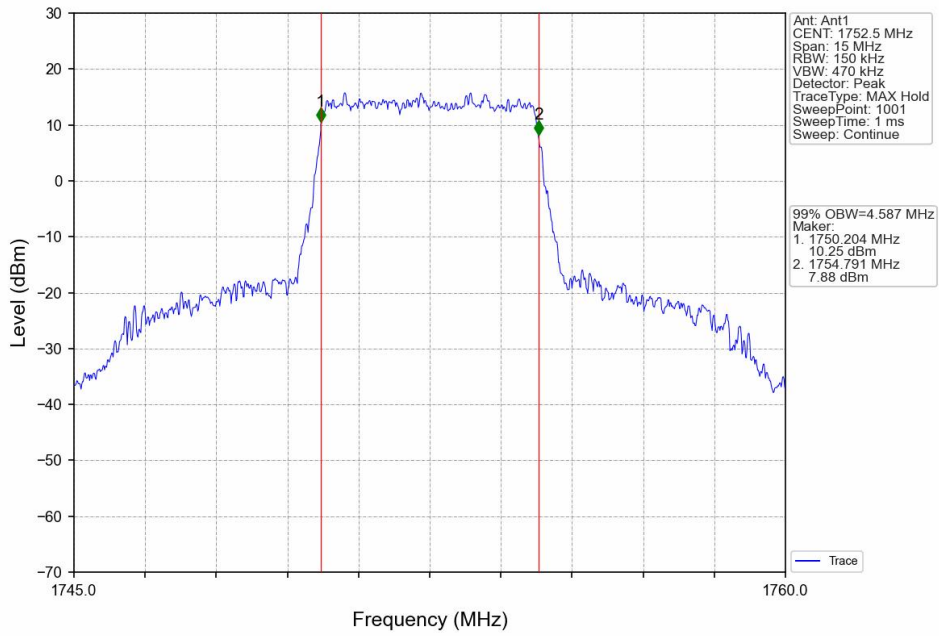
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



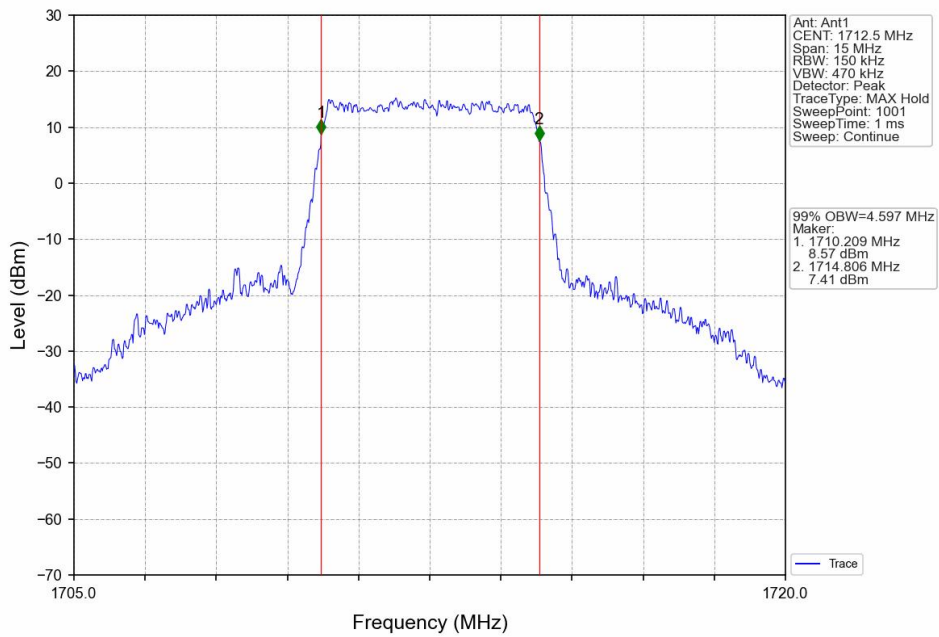
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



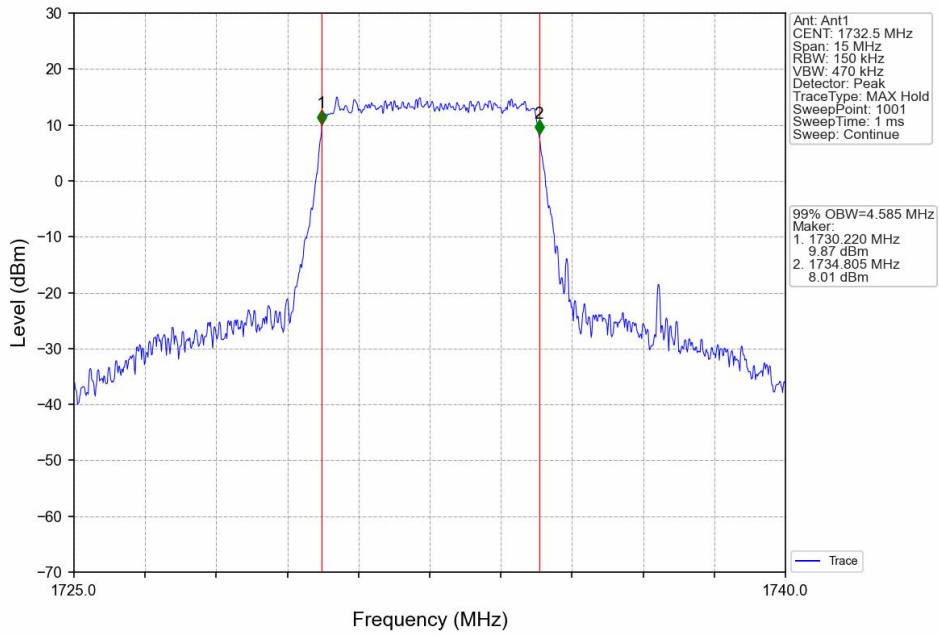
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



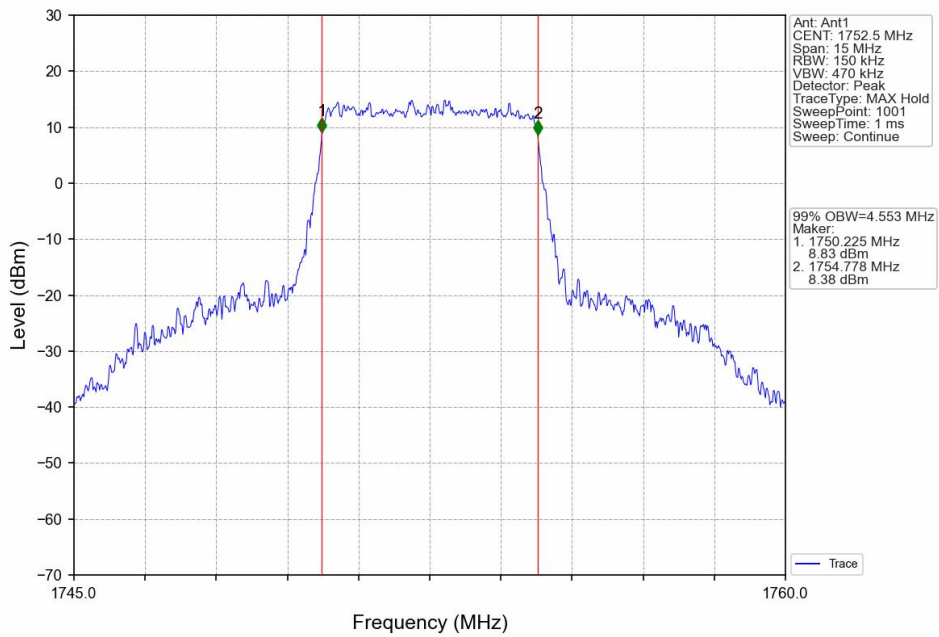
Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



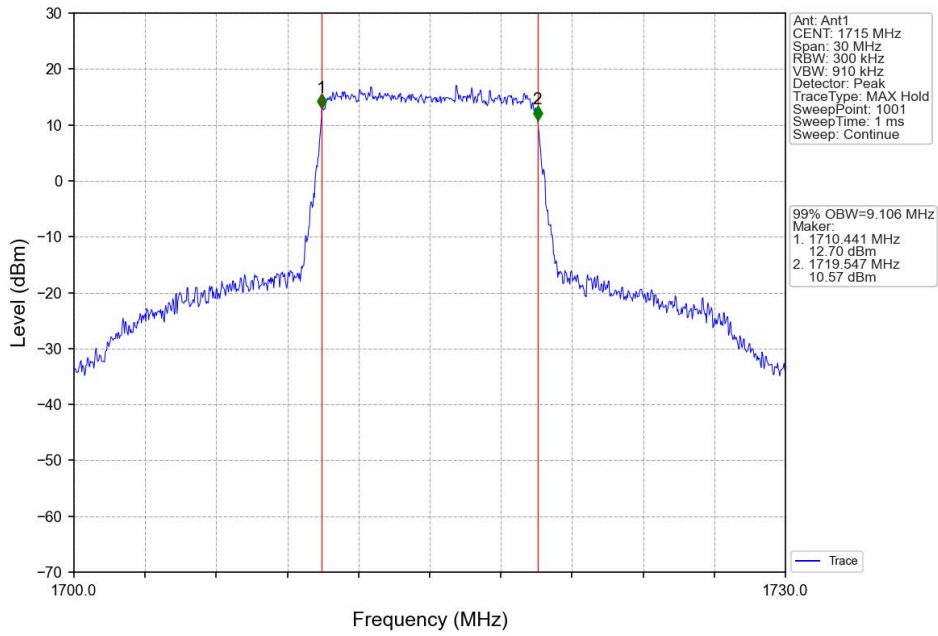
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



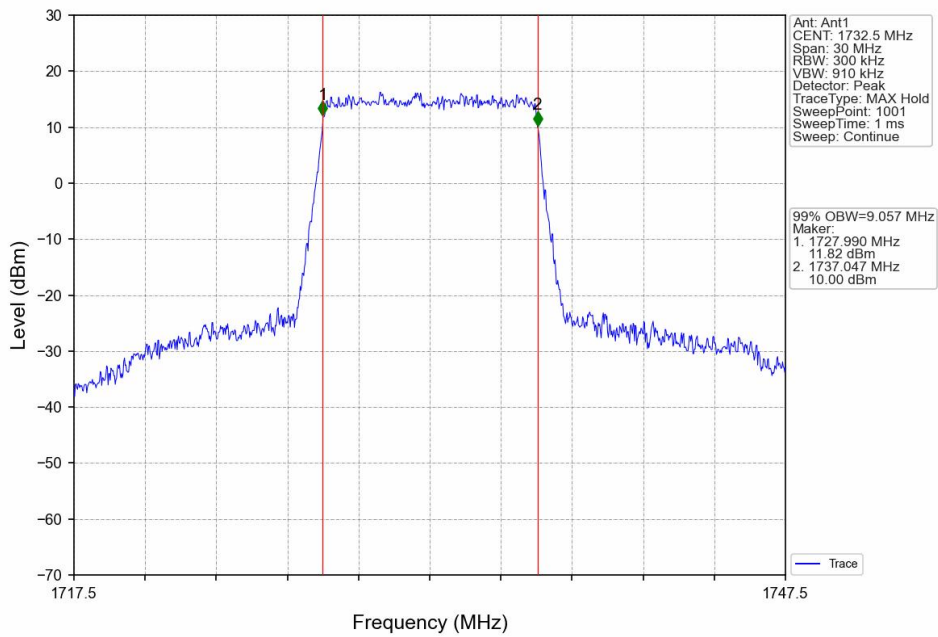
Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



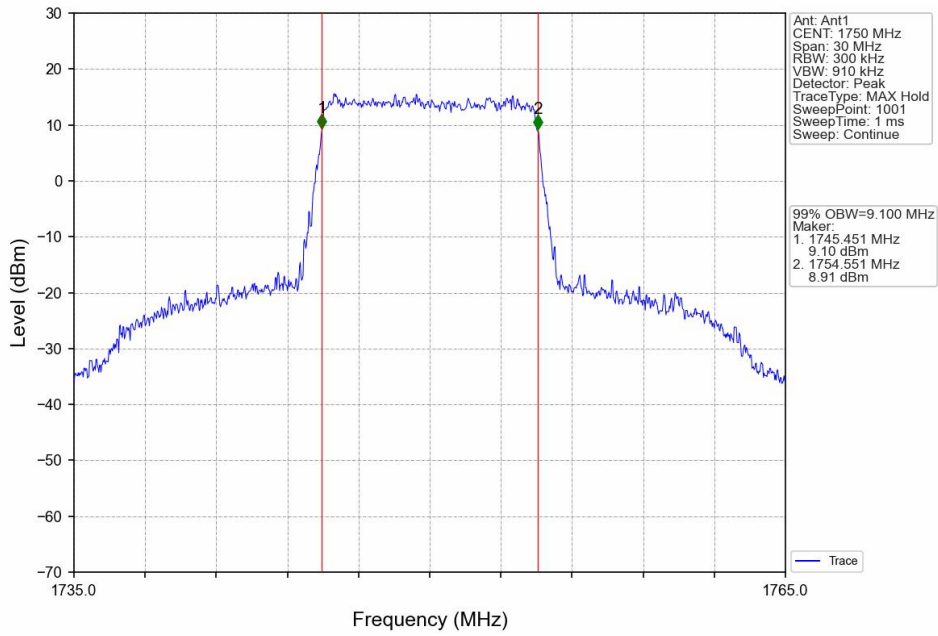
Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



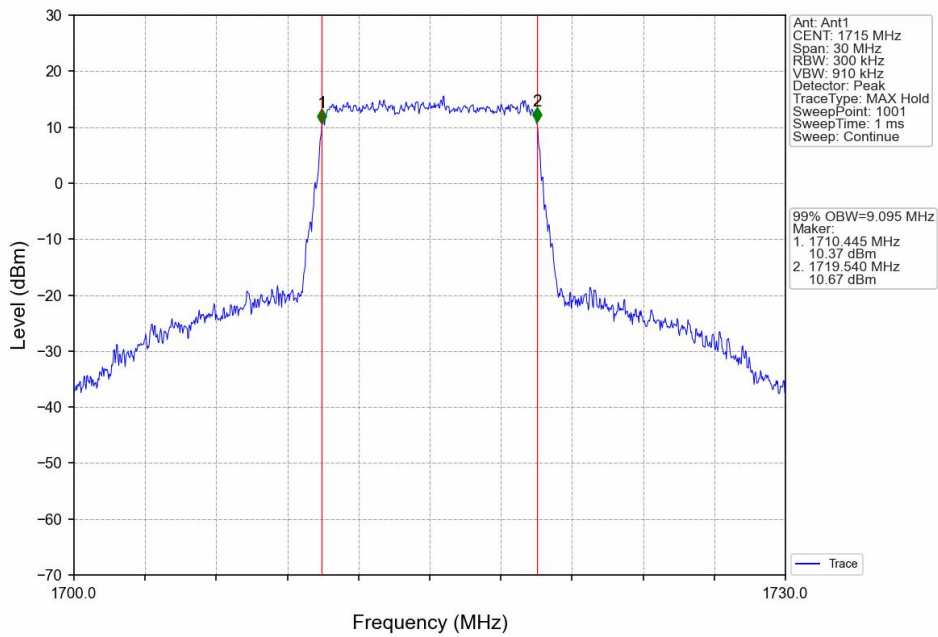
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



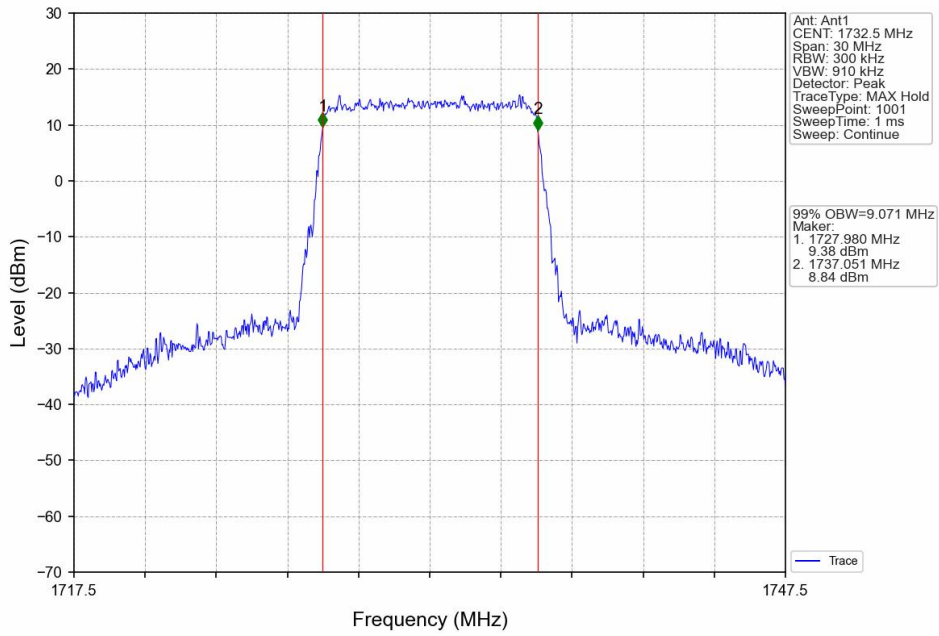
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



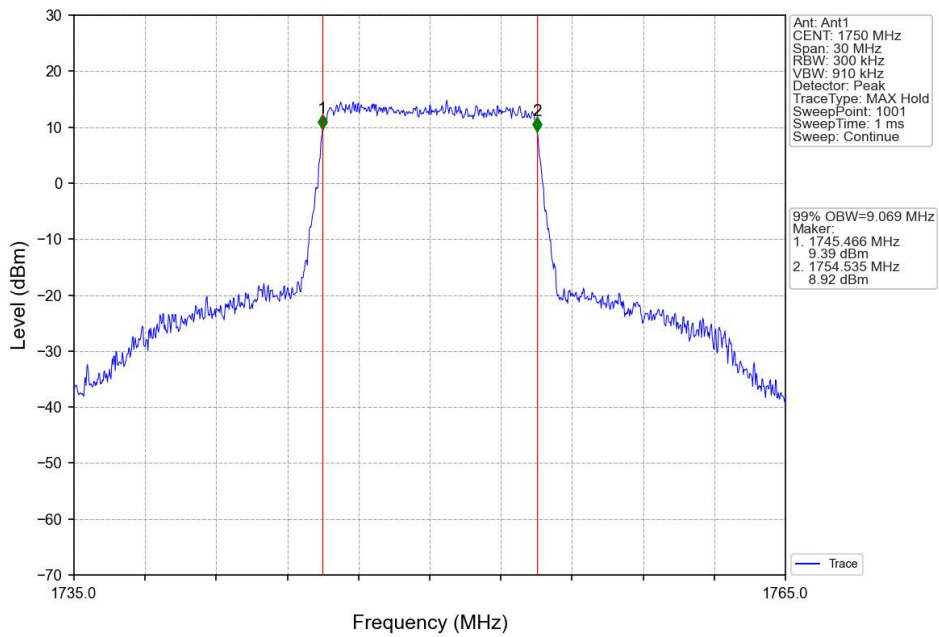
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



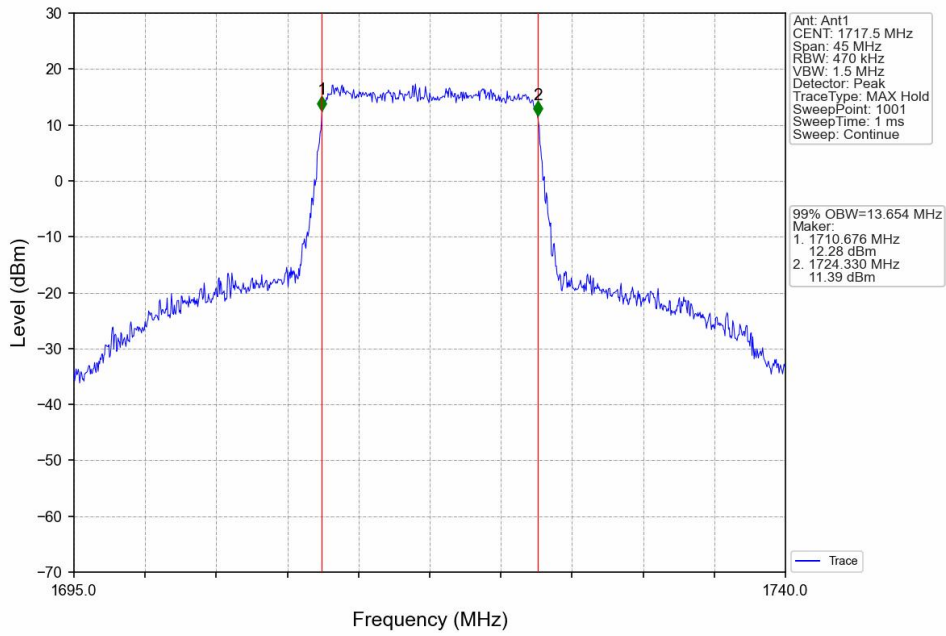
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



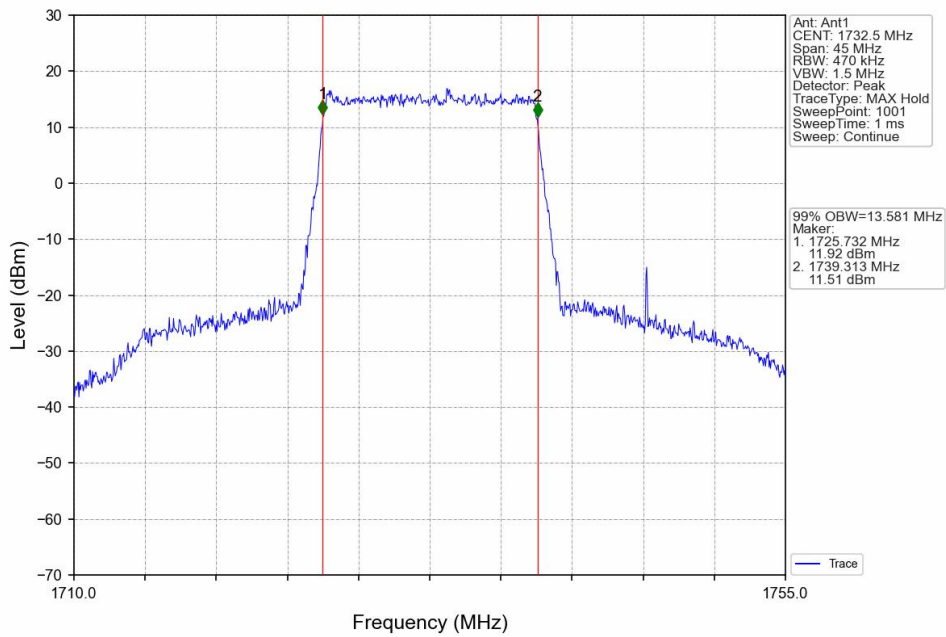
Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

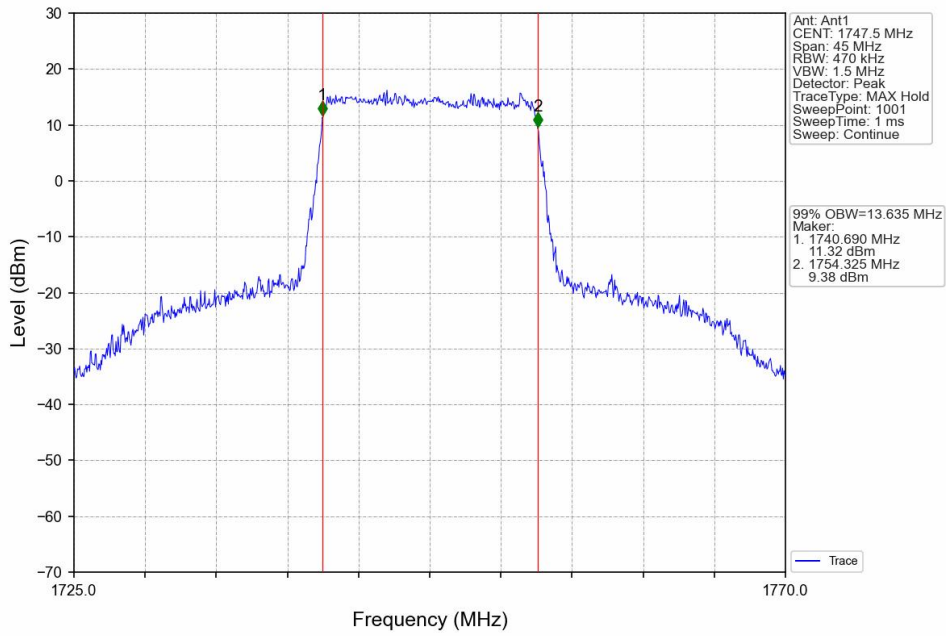


Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV

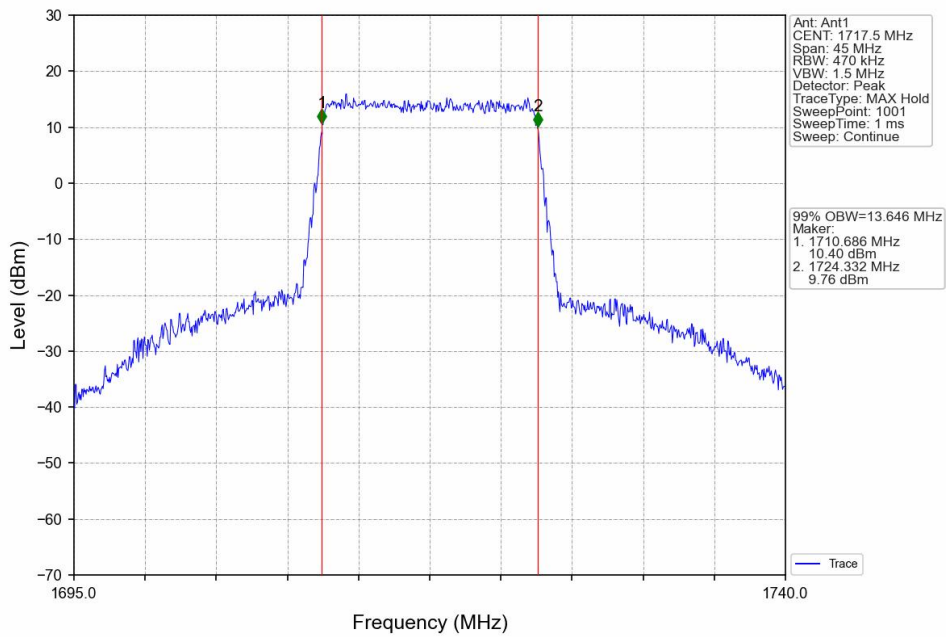




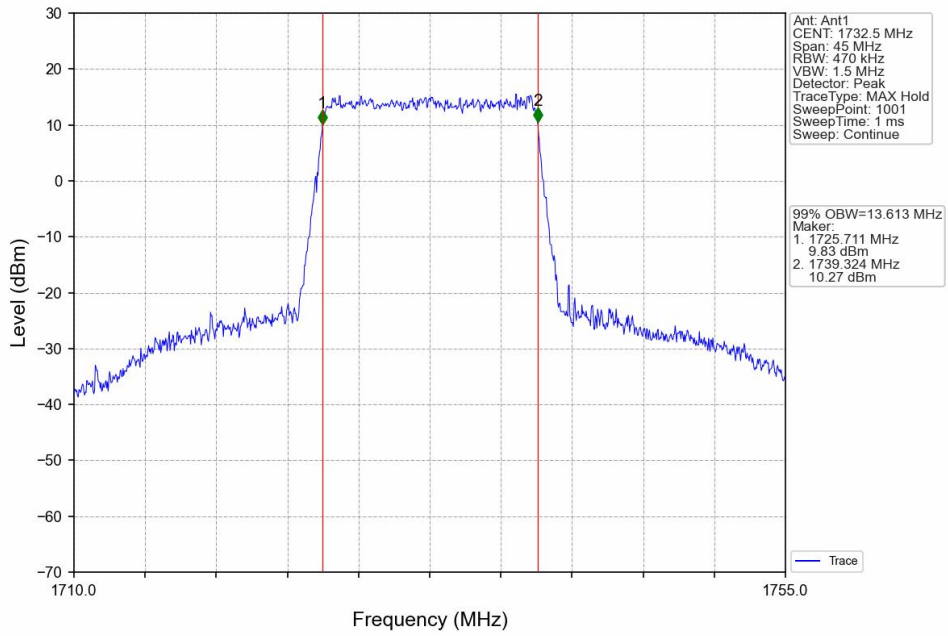
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



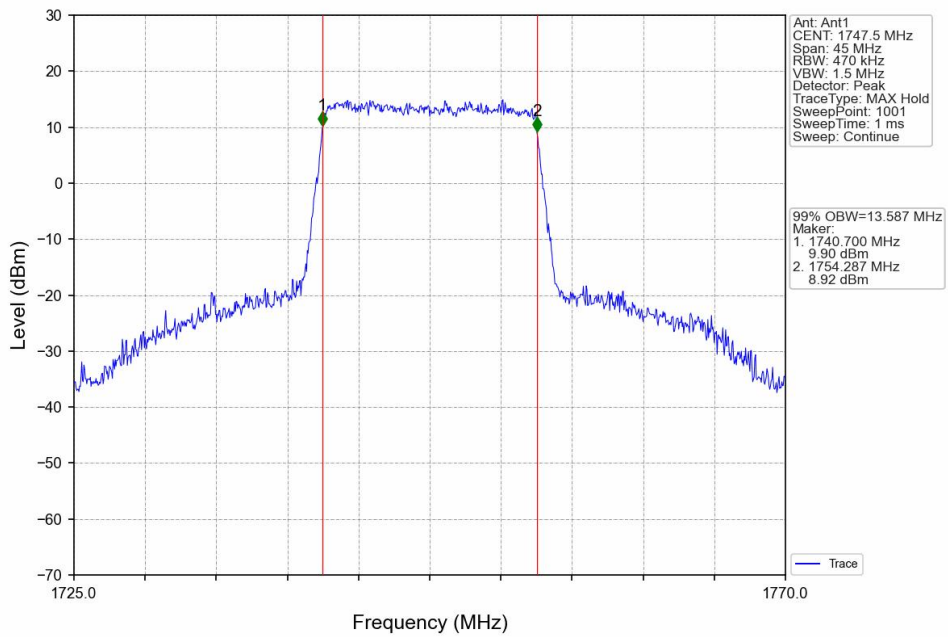
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



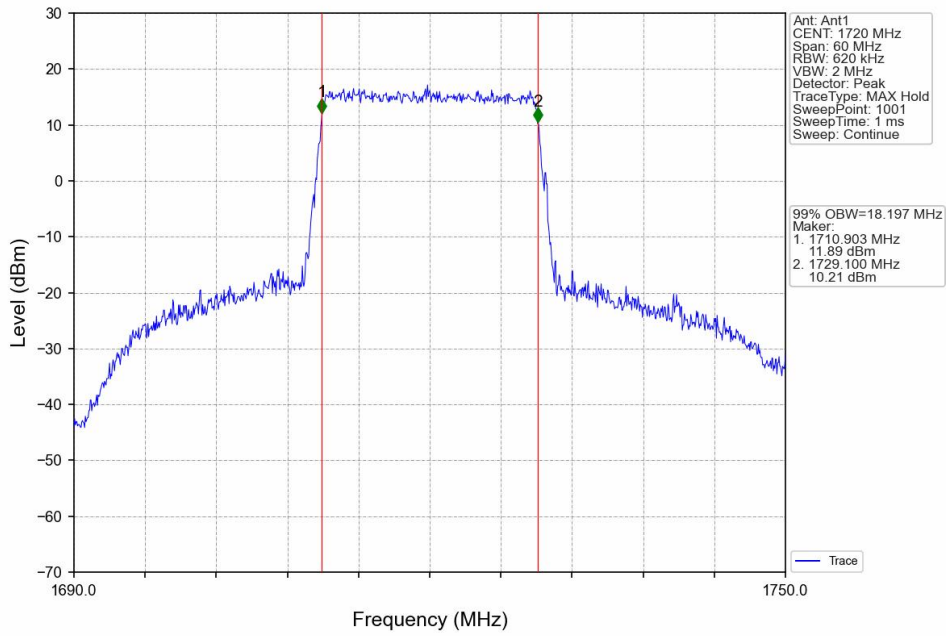
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



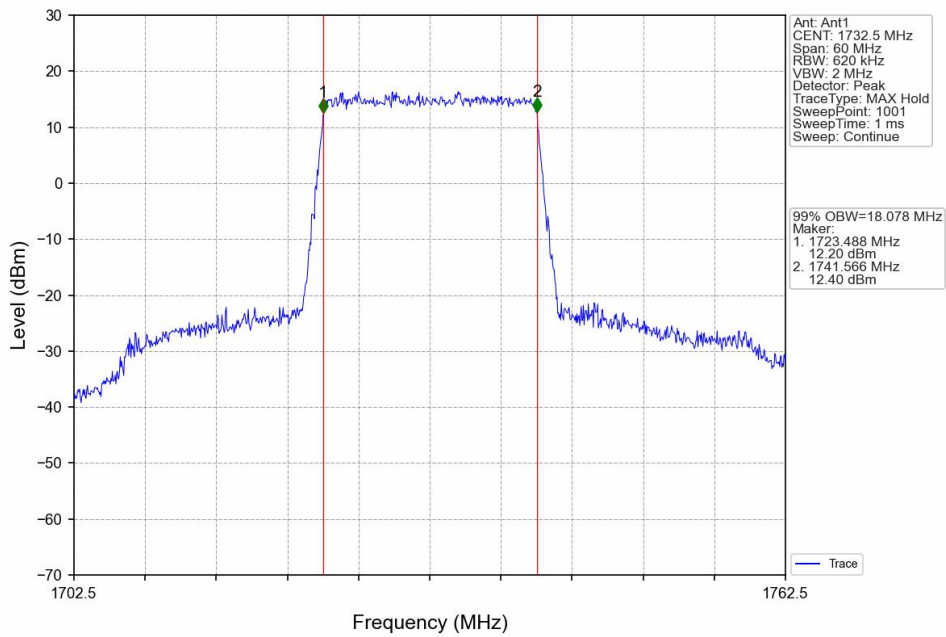
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



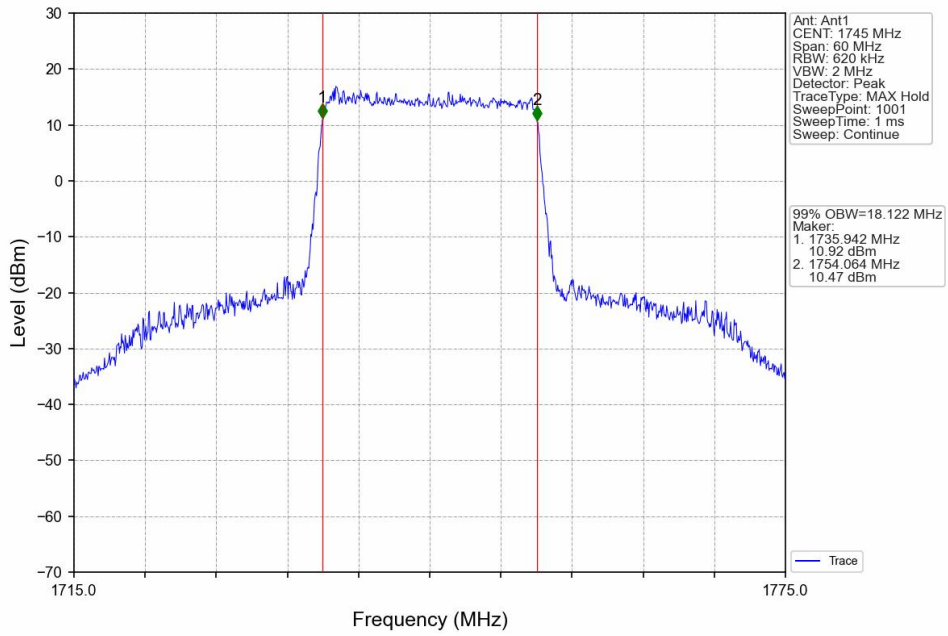
Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



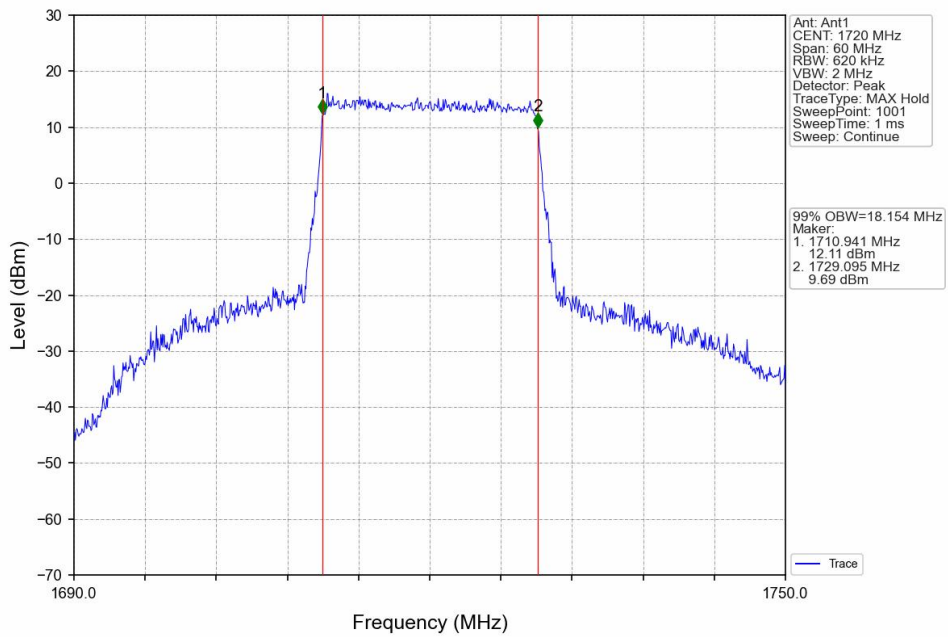
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



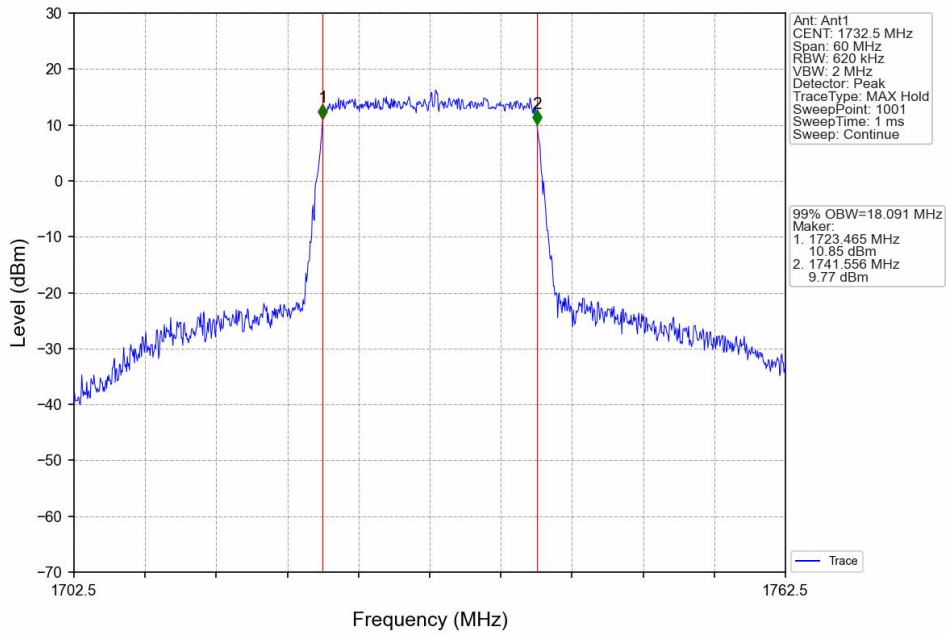
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



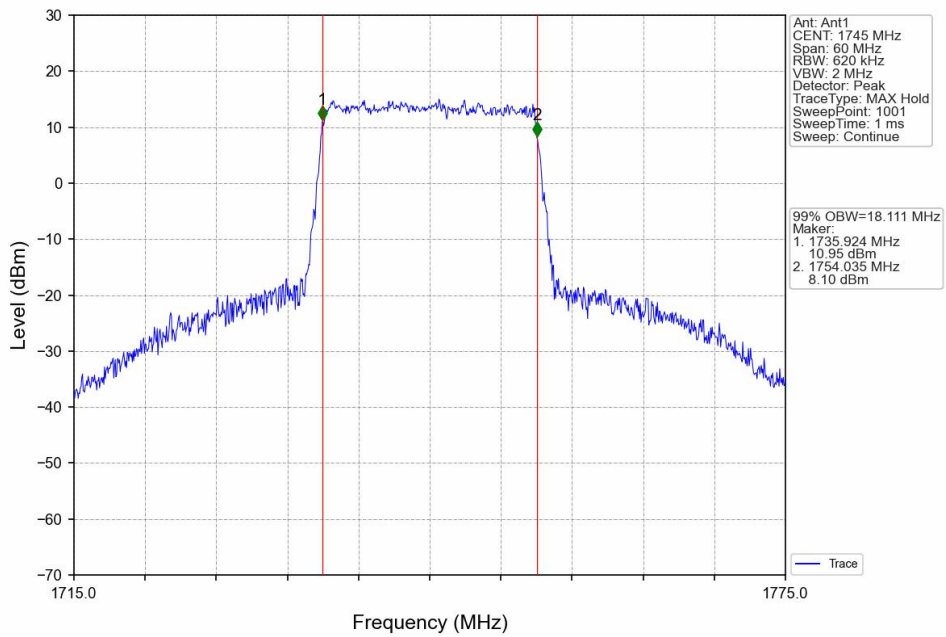
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_100\_0\_NTNV

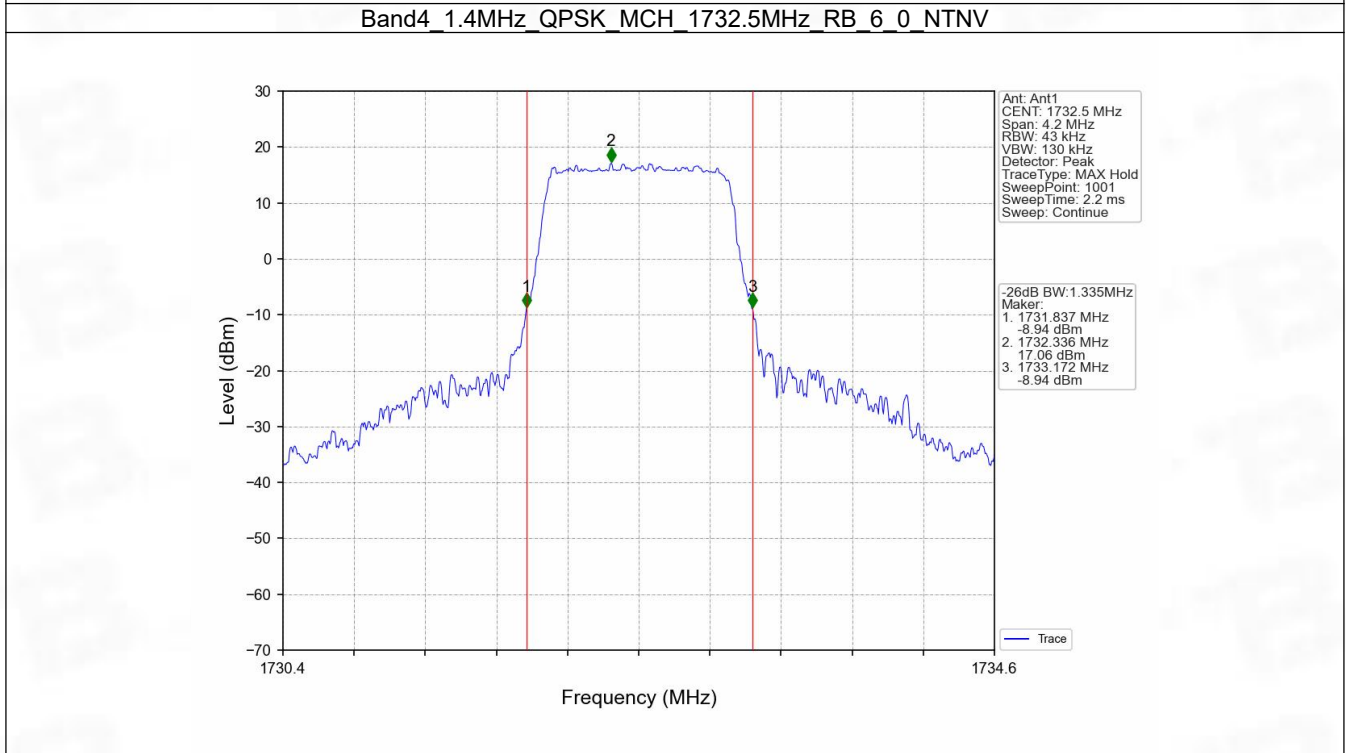
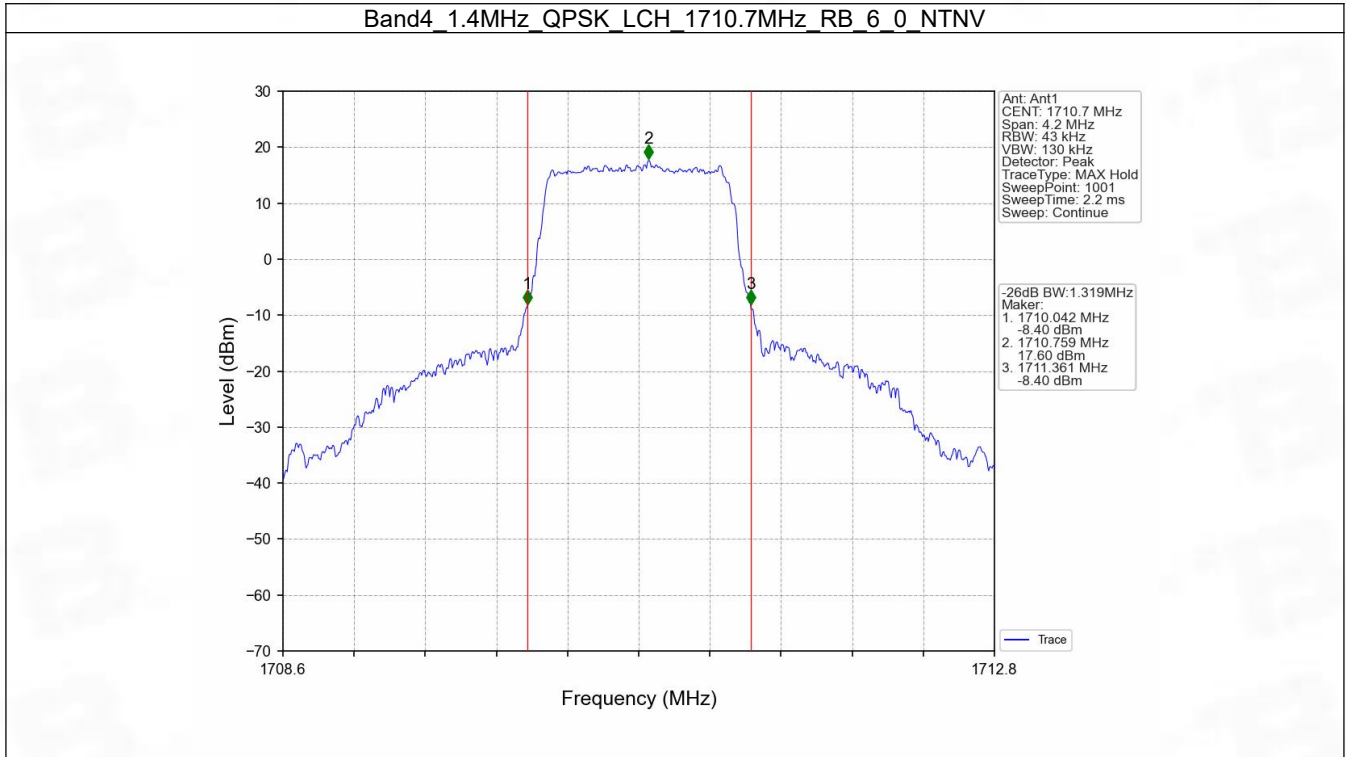


## 4.2 Band4\_XDB

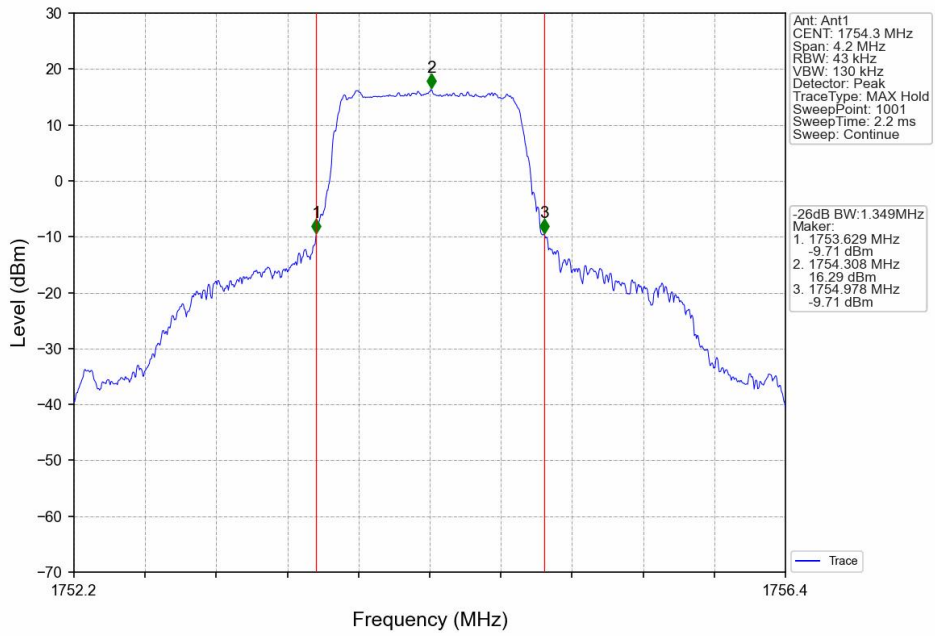
### 4.2.1 Test Result

Band: 4 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.319	Pass
		1732.5	6	0	1.335	Pass
		1754.3	6	0	1.349	Pass
	16QAM	1710.7	6	0	1.317	Pass
		1732.5	6	0	1.302	Pass
		1754.3	6	0	1.333	Pass
3	QPSK	1711.5	15	0	2.989	Pass
		1732.5	15	0	2.991	Pass
		1753.5	15	0	3.004	Pass
	16QAM	1711.5	15	0	3.004	Pass
		1732.5	15	0	3.004	Pass
		1753.5	15	0	3.002	Pass
5	QPSK	1712.5	25	0	5.322	Pass
		1732.5	25	0	5.771	Pass
		1752.5	25	0	5.276	Pass
	16QAM	1712.5	25	0	5.318	Pass
		1732.5	25	0	5.275	Pass
		1752.5	25	0	5.245	Pass
10	QPSK	1715	50	0	10.233	Pass
		1732.5	50	0	10.311	Pass
		1750	50	0	10.293	Pass
	16QAM	1715	50	0	10.290	Pass
		1732.5	50	0	10.271	Pass
		1750	50	0	10.230	Pass
15	QPSK	1717.5	75	0	15.302	Pass
		1732.5	75	0	15.260	Pass
		1747.5	75	0	15.410	Pass
	16QAM	1717.5	75	0	15.317	Pass
		1732.5	75	0	15.289	Pass
		1747.5	75	0	15.344	Pass
20	QPSK	1720	100	0	20.129	Pass
		1732.5	100	0	20.114	Pass
		1745	100	0	19.926	Pass
	16QAM	1720	100	0	20.134	Pass
		1732.5	100	0	19.957	Pass
		1745	100	0	20.174	Pass

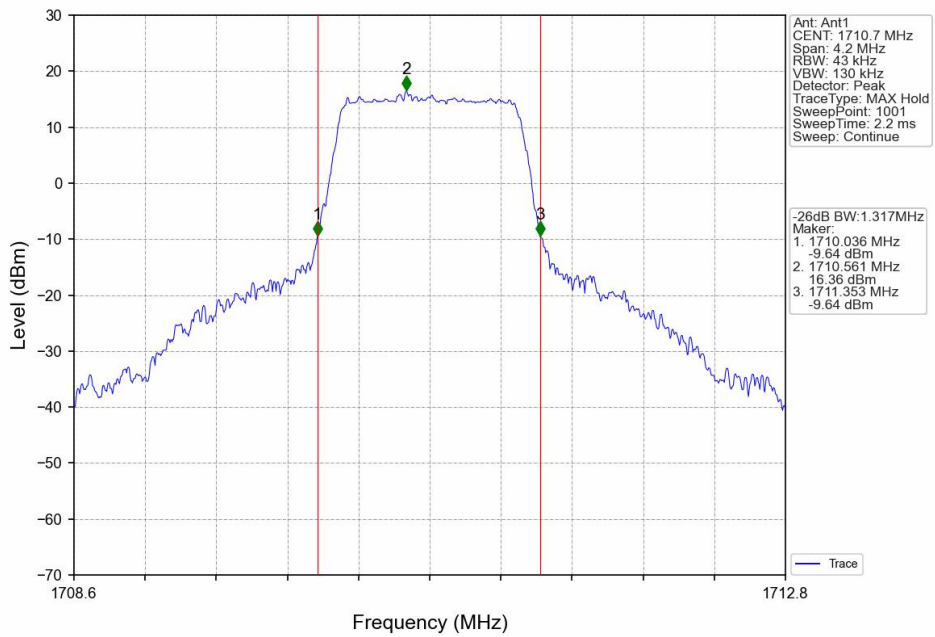
## 4.2.2 Test Graph



Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV

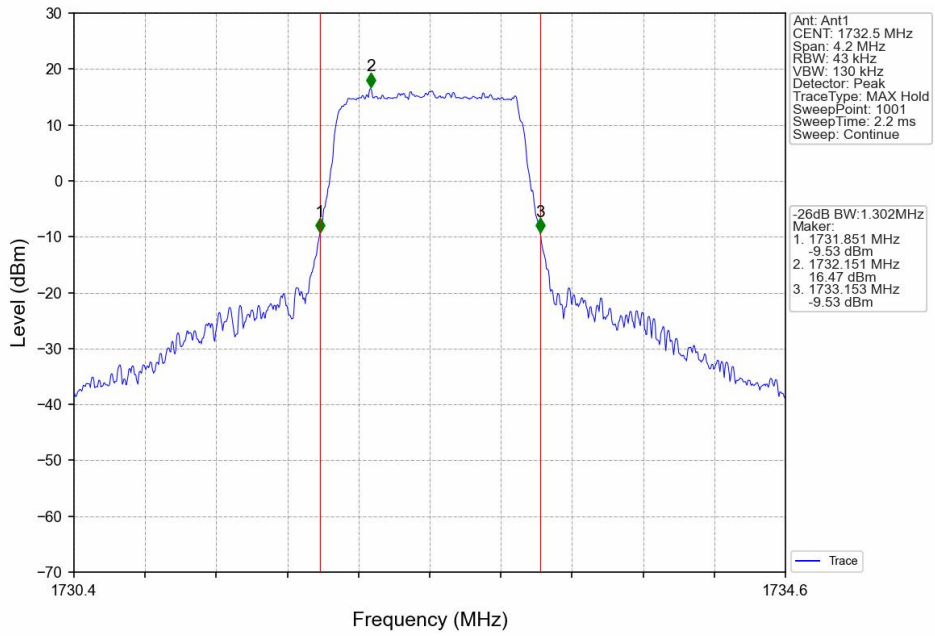


Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV

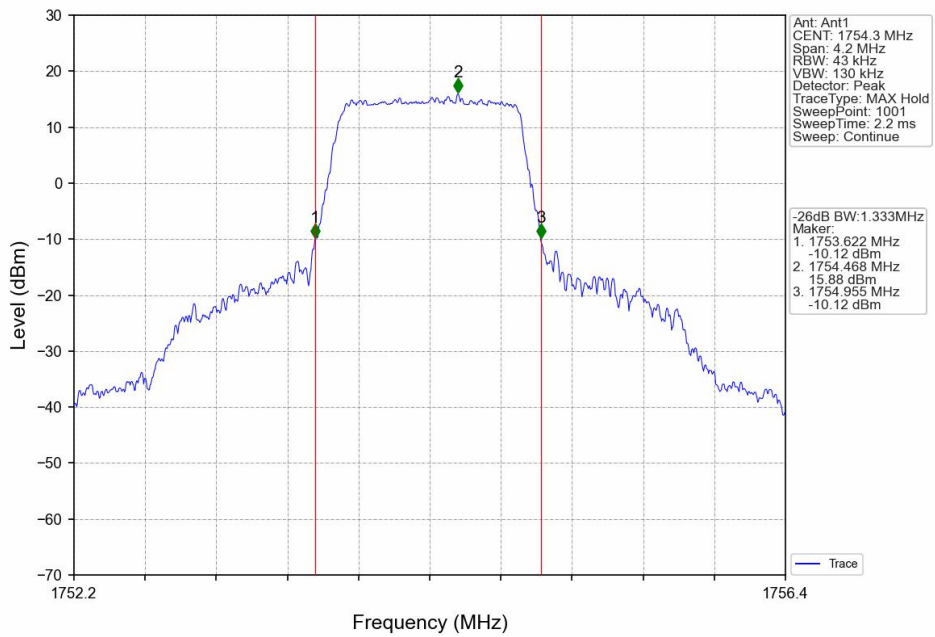




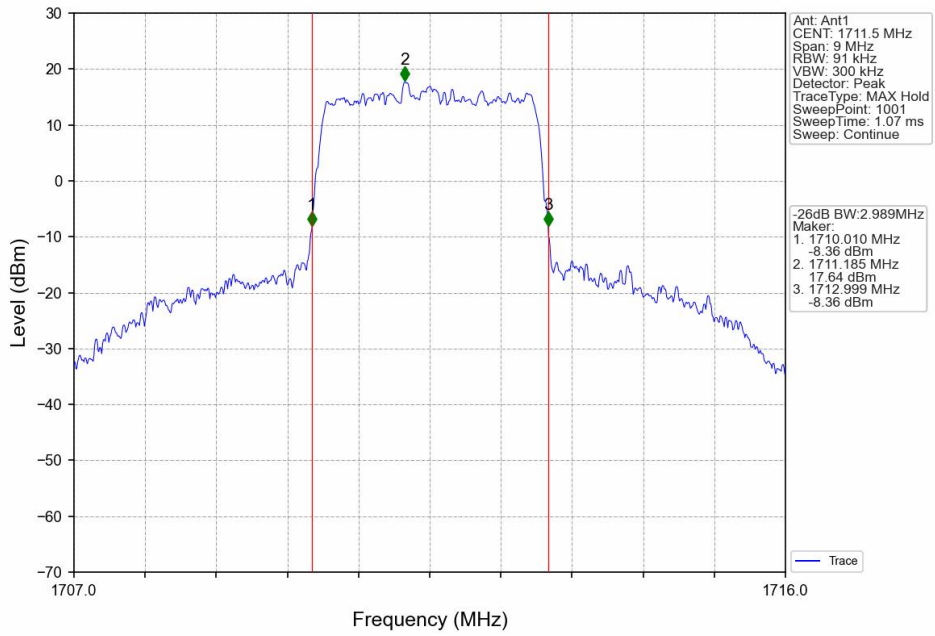
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



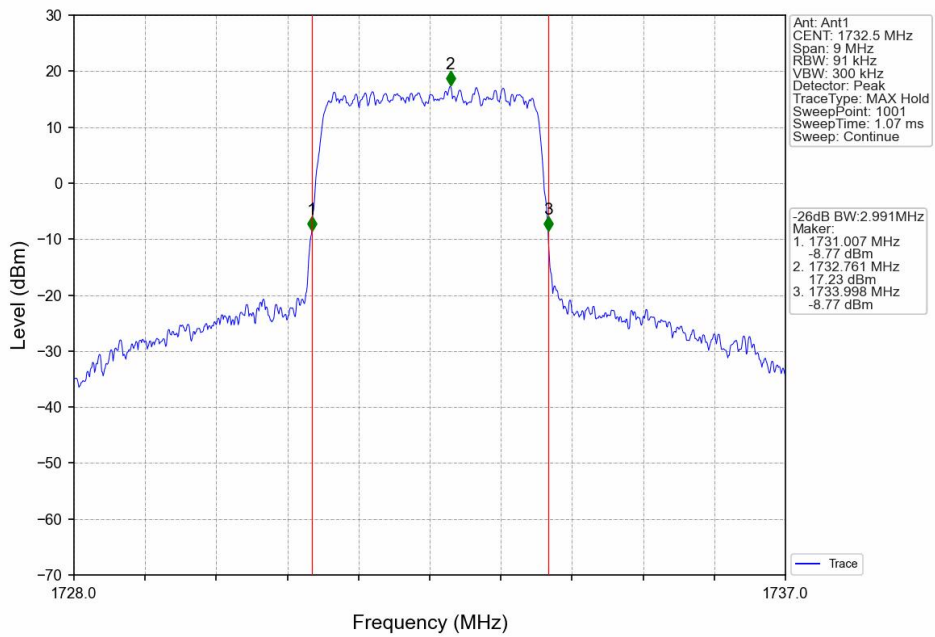
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



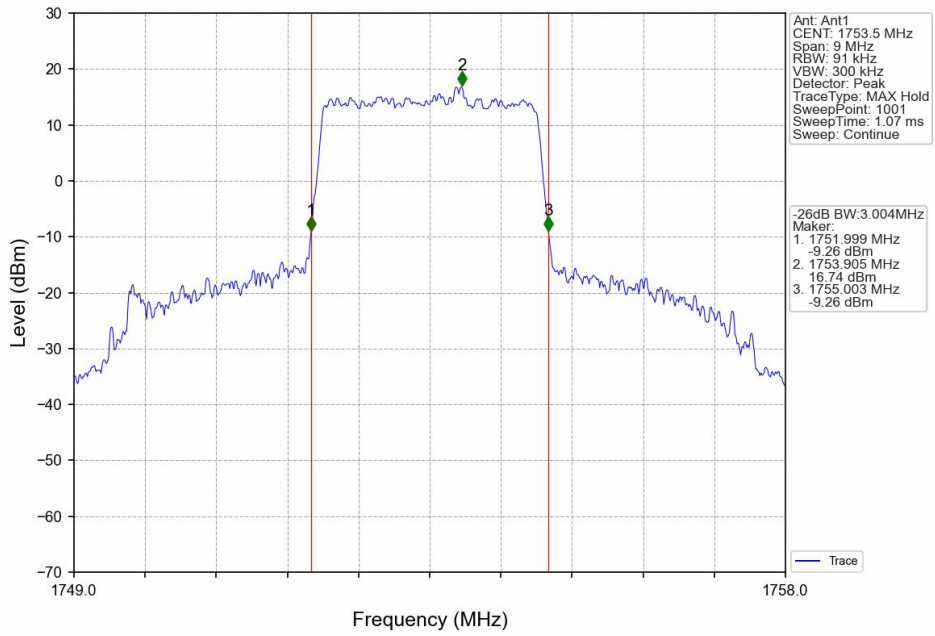
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



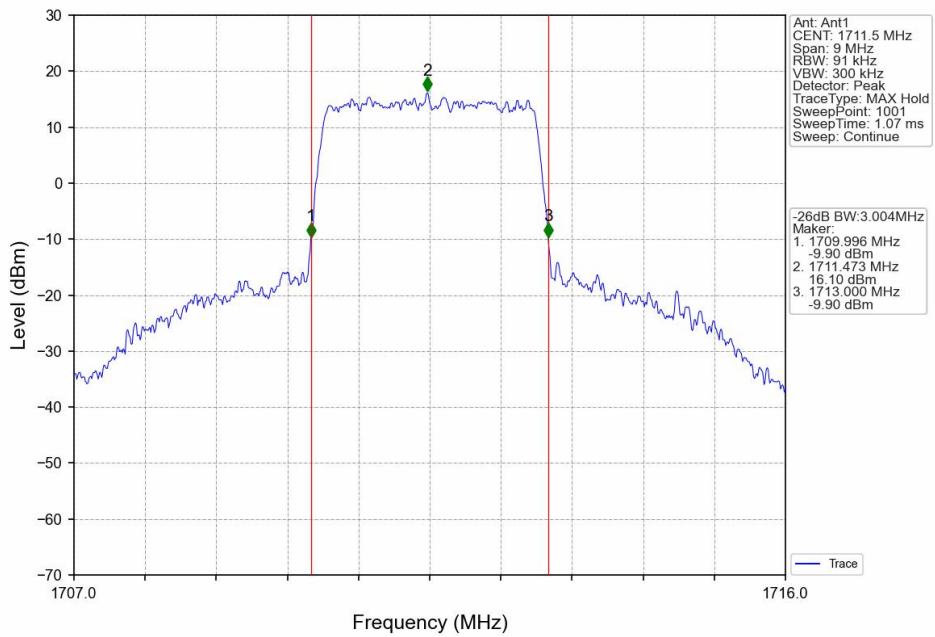
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



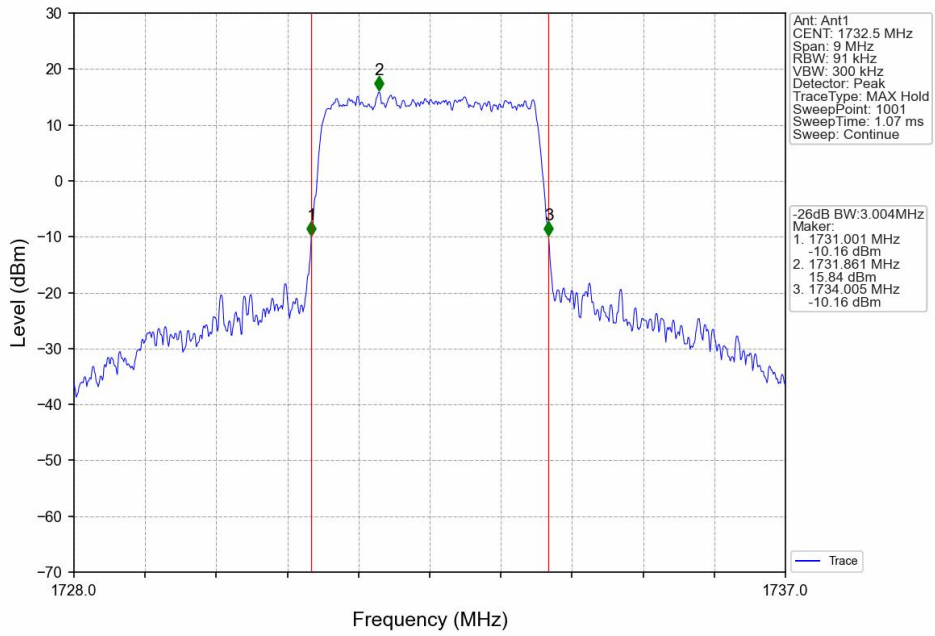
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV

