

# 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	19.74	0.32	20.06	<=30	Pass		
			2	19.86	0.32	20.18	<=30	Pass		
			5	19.76	0.32	20.08	<=30	Pass		
		3	0	19.82	0.32	20.14	<=30	Pass		
			2	19.81	0.32	20.13	<=30	Pass		
			3	19.44	0.32	19.76	<=30	Pass		
		6	0	18.31	0.32	18.63	<=30	Pass		
		1732.5	1	0	19.76	0.32	20.08	<=30	Pass	
				2	19.86	0.32	20.18	<=30	Pass	
	5			19.77	0.32	20.09	<=30	Pass		
	3		0	19.91	0.32	20.23	<=30	Pass		
			2	19.90	0.32	20.22	<=30	Pass		
			3	19.87	0.32	20.19	<=30	Pass		
	6		0	18.85	0.32	19.17	<=30	Pass		
	1754.3		1	0	19.89	0.32	20.21	<=30	Pass	
				2	20.05	0.32	20.37	<=30	Pass	
		5		19.88	0.32	20.2	<=30	Pass		
		3	0	20.03	0.32	20.35	<=30	Pass		
			2	19.94	0.32	20.26	<=30	Pass		
			3	19.84	0.32	20.16	<=30	Pass		
		6	0	18.81	0.32	19.13	<=30	Pass		
		16QAM	1710.7	1	0	18.23	0.32	18.55	<=30	Pass
					2	18.36	0.32	18.68	<=30	Pass
	5				18.29	0.32	18.61	<=30	Pass	
3	0			18.41	0.32	18.73	<=30	Pass		
	2			18.42	0.32	18.74	<=30	Pass		
	3			18.40	0.32	18.72	<=30	Pass		
6	0			17.22	0.32	17.54	<=30	Pass		
1732.5	1			0	18.79	0.32	19.11	<=30	Pass	
				2	18.88	0.32	19.2	<=30	Pass	
			5	18.76	0.32	19.08	<=30	Pass		
	3		0	19.11	0.32	19.43	<=30	Pass		
			2	19.13	0.32	19.45	<=30	Pass		
			3	19.14	0.32	19.46	<=30	Pass		
	6		0	17.88	0.32	18.2	<=30	Pass		
	1754.3		1	0	18.84	0.32	19.16	<=30	Pass	
				2	18.85	0.32	19.17	<=30	Pass	
5				18.65	0.32	18.97	<=30	Pass		
3			0	18.80	0.32	19.12	<=30	Pass		
			2	18.66	0.32	18.98	<=30	Pass		
			3	18.65	0.32	18.97	<=30	Pass		
6			0	17.42	0.32	17.74	<=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	19.86	0.32	20.18	<=30	Pass		
			7	19.98	0.32	20.3	<=30	Pass		
			14	19.86	0.32	20.18	<=30	Pass		
		8	0	18.86	0.32	19.18	<=30	Pass		
			4	18.88	0.32	19.2	<=30	Pass		
			7	18.87	0.32	19.19	<=30	Pass		
		15	0	18.85	0.32	19.17	<=30	Pass		
		1732.5	1	0	19.62	0.32	19.94	<=30	Pass	
				7	19.74	0.32	20.06	<=30	Pass	
	14			19.41	0.32	19.73	<=30	Pass		
	8		0	18.43	0.32	18.75	<=30	Pass		
			4	18.55	0.32	18.87	<=30	Pass		
			7	18.46	0.32	18.78	<=30	Pass		
	15		0	18.44	0.32	18.76	<=30	Pass		
	1753.5		1	0	19.51	0.32	19.83	<=30	Pass	
				7	19.55	0.32	19.87	<=30	Pass	
		14		19.38	0.32	19.7	<=30	Pass		
		8	0	18.45	0.32	18.77	<=30	Pass		
			4	18.53	0.32	18.85	<=30	Pass		
			7	18.48	0.32	18.8	<=30	Pass		
		15	0	18.49	0.32	18.81	<=30	Pass		
		16QAM	1711.5	1	0	18.88	0.32	19.2	<=30	Pass
					7	18.68	0.32	19	<=30	Pass
	14				18.53	0.32	18.85	<=30	Pass	
8	0			17.72	0.32	18.04	<=30	Pass		
	4			17.89	0.32	18.21	<=30	Pass		
	7			17.81	0.32	18.13	<=30	Pass		
15	0			17.74	0.32	18.06	<=30	Pass		
1732.5	1			0	18.60	0.32	18.92	<=30	Pass	
				7	18.73	0.32	19.05	<=30	Pass	
			14	18.60	0.32	18.92	<=30	Pass		
	8		0	17.40	0.32	17.72	<=30	Pass		
			4	17.44	0.32	17.76	<=30	Pass		
			7	17.39	0.32	17.71	<=30	Pass		
	15		0	17.39	0.32	17.71	<=30	Pass		
	1753.5		1	0	19.01	0.32	19.33	<=30	Pass	
				7	19.18	0.32	19.5	<=30	Pass	
14				19.04	0.32	19.36	<=30	Pass		
8			0	17.61	0.32	17.93	<=30	Pass		
			4	17.71	0.32	18.03	<=30	Pass		
			7	17.65	0.32	17.97	<=30	Pass		
15			0	17.56	0.32	17.88	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

### 1.3 B4\_5MHz\_EIRP

#### 1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1712.5	1	0	19.69	0.32	20.01	<=30	Pass		
			13	19.80	0.32	20.12	<=30	Pass		
			24	19.43	0.32	19.75	<=30	Pass		
		12	0	18.34	0.32	18.66	<=30	Pass		
			6	18.51	0.32	18.83	<=30	Pass		
			13	18.32	0.32	18.64	<=30	Pass		
		25	0	18.29	0.32	18.61	<=30	Pass		
		1732.5	1	0	19.22	0.32	19.54	<=30	Pass	
				13	19.33	0.32	19.65	<=30	Pass	
	24			19.20	0.32	19.52	<=30	Pass		
	12		0	18.30	0.32	18.62	<=30	Pass		
			6	18.37	0.32	18.69	<=30	Pass		
			13	18.33	0.32	18.65	<=30	Pass		
	25		0	18.34	0.32	18.66	<=30	Pass		
	1752.5		1	0	19.28	0.32	19.6	<=30	Pass	
				13	19.40	0.32	19.72	<=30	Pass	
		24		19.35	0.32	19.67	<=30	Pass		
		12	0	18.37	0.32	18.69	<=30	Pass		
			6	18.42	0.32	18.74	<=30	Pass		
			13	18.37	0.32	18.69	<=30	Pass		
		25	0	18.43	0.32	18.75	<=30	Pass		
		16QAM	1712.5	1	0	18.28	0.32	18.6	<=30	Pass
					13	18.41	0.32	18.73	<=30	Pass
	24				18.32	0.32	18.64	<=30	Pass	
12	0			17.26	0.32	17.58	<=30	Pass		
	6			17.30	0.32	17.62	<=30	Pass		
	13			17.26	0.32	17.58	<=30	Pass		
25	0			17.26	0.32	17.58	<=30	Pass		
1732.5	1			0	18.53	0.32	18.85	<=30	Pass	
				13	18.70	0.32	19.02	<=30	Pass	
			24	18.54	0.32	18.86	<=30	Pass		
	12		0	17.36	0.32	17.68	<=30	Pass		
			6	17.43	0.32	17.75	<=30	Pass		
			13	17.40	0.32	17.72	<=30	Pass		
	25		0	17.30	0.32	17.62	<=30	Pass		
	1752.5		1	0	18.17	0.32	18.49	<=30	Pass	
				13	18.29	0.32	18.61	<=30	Pass	
24				18.19	0.32	18.51	<=30	Pass		
12			0	17.40	0.32	17.72	<=30	Pass		
			6	17.49	0.32	17.81	<=30	Pass		
			13	17.44	0.32	17.76	<=30	Pass		
25			0	17.44	0.32	17.76	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 1.4 B4\_10MHz\_EIRP

### 1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1715	1	0	19.72	0.32	20.04	<=30	Pass		
			25	19.55	0.32	19.87	<=30	Pass		
			49	19.27	0.32	19.59	<=30	Pass		
		25	0	18.35	0.32	18.67	<=30	Pass		
			13	18.34	0.32	18.66	<=30	Pass		
			25	18.33	0.32	18.65	<=30	Pass		
		50	0	18.36	0.32	18.68	<=30	Pass		
		1732.5	1	0	19.26	0.32	19.58	<=30	Pass	
				25	19.52	0.32	19.84	<=30	Pass	
	49			19.24	0.32	19.56	<=30	Pass		
	25		0	18.43	0.32	18.75	<=30	Pass		
			13	18.42	0.32	18.74	<=30	Pass		
			25	18.44	0.32	18.76	<=30	Pass		
	50		0	18.45	0.32	18.77	<=30	Pass		
	1750		1	0	19.29	0.32	19.61	<=30	Pass	
				25	19.53	0.32	19.85	<=30	Pass	
		49		19.32	0.32	19.64	<=30	Pass		
		25	0	18.52	0.32	18.84	<=30	Pass		
			13	18.47	0.32	18.79	<=30	Pass		
			25	18.45	0.32	18.77	<=30	Pass		
		50	0	18.48	0.32	18.8	<=30	Pass		
		16QAM	1715	1	0	18.25	0.32	18.57	<=30	Pass
					25	18.52	0.32	18.84	<=30	Pass
	49				18.28	0.32	18.6	<=30	Pass	
25	0			17.43	0.32	17.75	<=30	Pass		
	13			17.39	0.32	17.71	<=30	Pass		
	25			17.42	0.32	17.74	<=30	Pass		
50	0			17.36	0.32	17.68	<=30	Pass		
1732.5	1			0	18.47	0.32	18.79	<=30	Pass	
				25	18.73	0.32	19.05	<=30	Pass	
			49	18.47	0.32	18.79	<=30	Pass		
	25		0	17.43	0.32	17.75	<=30	Pass		
			13	17.43	0.32	17.75	<=30	Pass		
			25	17.47	0.32	17.79	<=30	Pass		
	50		0	17.46	0.32	17.78	<=30	Pass		
	1750		1	0	18.91	0.32	19.23	<=30	Pass	
				25	19.11	0.32	19.43	<=30	Pass	
49				19.01	0.32	19.33	<=30	Pass		
25			0	17.56	0.32	17.88	<=30	Pass		
			13	17.50	0.32	17.82	<=30	Pass		
			25	17.49	0.32	17.81	<=30	Pass		
50			0	17.48	0.32	17.8	<=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	19.12	0.32	19.44	<=30	Pass		
			38	19.29	0.32	19.61	<=30	Pass		
			74	19.11	0.32	19.43	<=30	Pass		
		36	0	18.31	0.32	18.63	<=30	Pass		
			18	18.31	0.32	18.63	<=30	Pass		
			39	18.26	0.32	18.58	<=30	Pass		
		75	0	18.36	0.32	18.68	<=30	Pass		
		1732.5	1	0	19.11	0.32	19.43	<=30	Pass	
				38	19.33	0.32	19.65	<=30	Pass	
	74			19.13	0.32	19.45	<=30	Pass		
	36		0	18.32	0.32	18.64	<=30	Pass		
			18	18.37	0.32	18.69	<=30	Pass		
			39	18.41	0.32	18.73	<=30	Pass		
	75		0	18.38	0.32	18.7	<=30	Pass		
	1747.5		1	0	19.15	0.32	19.47	<=30	Pass	
				38	19.38	0.32	19.7	<=30	Pass	
		74		19.16	0.32	19.48	<=30	Pass		
		36	0	18.44	0.32	18.76	<=30	Pass		
			18	18.45	0.32	18.77	<=30	Pass		
			39	18.35	0.32	18.67	<=30	Pass		
		75	0	18.41	0.32	18.73	<=30	Pass		
		16QAM	1717.5	1	0	18.51	0.32	18.83	<=30	Pass
					38	18.77	0.32	19.09	<=30	Pass
	74				18.57	0.32	18.89	<=30	Pass	
36	0			17.36	0.32	17.68	<=30	Pass		
	18			17.34	0.32	17.66	<=30	Pass		
	39			17.30	0.32	17.62	<=30	Pass		
75	0			17.30	0.32	17.62	<=30	Pass		
1732.5	1			0	18.36	0.32	18.68	<=30	Pass	
				38	18.54	0.32	18.86	<=30	Pass	
			74	18.34	0.32	18.66	<=30	Pass		
	36		0	17.30	0.32	17.62	<=30	Pass		
			18	17.38	0.32	17.7	<=30	Pass		
			39	17.41	0.32	17.73	<=30	Pass		
	75		0	17.37	0.32	17.69	<=30	Pass		
	1747.5		1	0	18.71	0.32	19.03	<=30	Pass	
				38	19.01	0.32	19.33	<=30	Pass	
74				18.81	0.32	19.13	<=30	Pass		
36			0	17.43	0.32	17.75	<=30	Pass		
			18	17.46	0.32	17.78	<=30	Pass		
			39	17.36	0.32	17.68	<=30	Pass		
75			0	17.40	0.32	17.72	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 1.6 B4\_20MHz\_EIRP

### 1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1720	1	0	18.91	0.32	19.23	<=30	Pass		
			50	19.45	0.32	19.77	<=30	Pass		
			99	18.96	0.32	19.28	<=30	Pass		
		50	0	18.34	0.32	18.66	<=30	Pass		
			25	18.40	0.32	18.72	<=30	Pass		
			50	18.37	0.32	18.69	<=30	Pass		
		100	0	18.37	0.32	18.69	<=30	Pass		
		1732.5	1	0	19.00	0.32	19.32	<=30	Pass	
				50	19.46	0.32	19.78	<=30	Pass	
	99			19.05	0.32	19.37	<=30	Pass		
	50		0	18.34	0.32	18.66	<=30	Pass		
			25	18.36	0.32	18.68	<=30	Pass		
			50	18.45	0.32	18.77	<=30	Pass		
	100		0	18.37	0.32	18.69	<=30	Pass		
	1745		1	0	18.95	0.32	19.27	<=30	Pass	
				50	19.52	0.32	19.84	<=30	Pass	
		99		19.04	0.32	19.36	<=30	Pass		
		50	0	18.39	0.32	18.71	<=30	Pass		
			25	18.45	0.32	18.77	<=30	Pass		
			50	18.37	0.32	18.69	<=30	Pass		
		100	0	18.39	0.32	18.71	<=30	Pass		
		16QAM	1720	1	0	18.48	0.32	18.8	<=30	Pass
					50	19.03	0.32	19.35	<=30	Pass
	99				18.58	0.32	18.9	<=30	Pass	
50	0			17.36	0.32	17.68	<=30	Pass		
	25			17.31	0.32	17.63	<=30	Pass		
	50			17.38	0.32	17.7	<=30	Pass		
100	0			17.39	0.32	17.71	<=30	Pass		
1732.5	1			0	18.21	0.32	18.53	<=30	Pass	
				50	18.71	0.32	19.03	<=30	Pass	
			99	18.28	0.32	18.6	<=30	Pass		
	50		0	17.34	0.32	17.66	<=30	Pass		
			25	17.37	0.32	17.69	<=30	Pass		
			50	17.44	0.32	17.76	<=30	Pass		
	100		0	17.40	0.32	17.72	<=30	Pass		
	1745		1	0	18.28	0.32	18.6	<=30	Pass	
				50	18.83	0.32	19.15	<=30	Pass	
99				18.38	0.32	18.7	<=30	Pass		
50			0	17.39	0.32	17.71	<=30	Pass		
			25	17.44	0.32	17.76	<=30	Pass		
			50	17.35	0.32	17.67	<=30	Pass		
100			0	17.37	0.32	17.69	<=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	-19.441	-0.0114	-2.5 to 2.5	Pass
					3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
					4.43	-3.147	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-3.219	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-1.645	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-2.046	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-7.367	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-3.862	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-7.238	-0.0042	-2.5 to 2.5	Pass
	50	3.85	-7.753	-0.0045	-2.5 to 2.5	Pass			
	1732.5	6	0	20	3.27	-13.003	-0.0075	-2.5 to 2.5	Pass
					3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
					4.43	-0.558	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.544	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-2.732	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-3.591	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-2.303	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-4.907	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-0.057	0.0000	-2.5 to 2.5	Pass
	50	3.85	-4.163	-0.0024	-2.5 to 2.5	Pass			
	1754.3	6	0	20	3.27	-10.629	-0.0061	-2.5 to 2.5	Pass
					3.85	-5.808	-0.0033	-2.5 to 2.5	Pass
					4.43	3.877	0.0022	-2.5 to 2.5	Pass
				-30	3.85	-9.327	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-7.138	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-3.376	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-2.546	-0.0015	-2.5 to 2.5	Pass
30				3.85	-3.934	-0.0022	-2.5 to 2.5	Pass	
40				3.85	-8.597	-0.0049	-2.5 to 2.5	Pass	
50	3.85	-5.794	-0.0033	-2.5 to 2.5	Pass				
16QAM	1710.7	6	0	20	3.27	0.100	0.0001	-2.5 to 2.5	Pass
					3.85	-7.725	-0.0045	-2.5 to 2.5	Pass
					4.43	-7.882	-0.0046	-2.5 to 2.5	Pass
				-30	3.85	-9.012	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-8.197	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-8.698	-0.0051	-2.5 to 2.5	Pass
				0	3.85	-10.514	-0.0061	-2.5 to 2.5	Pass
				10	3.85	11.973	0.0070	-2.5 to 2.5	Pass
				30	3.85	-6.137	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-5.779	-0.0034	-2.5 to 2.5	Pass
	50	3.85	-4.048	-0.0024	-2.5 to 2.5	Pass			
	1732.5	6	0	20	3.27	-1.545	-0.0009	-2.5 to 2.5	Pass
					3.85	-6.166	-0.0036	-2.5 to 2.5	Pass

					4.43	-3.662	-0.0021	-2.5 to 2.5	Pass			
				-30	3.85	-7.281	-0.0042	-2.5 to 2.5	Pass			
				-20	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass			
				-10	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass			
				0	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass			
				10	3.85	-8.855	-0.0051	-2.5 to 2.5	Pass			
				30	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass			
				40	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass			
				50	3.85	0.057	0.0000	-2.5 to 2.5	Pass			
	1754.3	6	0	20	3.27	-4.835	-0.0028	-2.5 to 2.5	Pass			
								3.85	9.112	0.0052	-2.5 to 2.5	Pass
								4.43	1.230	0.0007	-2.5 to 2.5	Pass
							-30	3.85	-6.437	-0.0037	-2.5 to 2.5	Pass
							-20	3.85	-2.918	-0.0017	-2.5 to 2.5	Pass
							-10	3.85	-11.387	-0.0065	-2.5 to 2.5	Pass
							0	3.85	-4.034	-0.0023	-2.5 to 2.5	Pass
							10	3.85	2.632	0.0015	-2.5 to 2.5	Pass
							30	3.85	-6.080	-0.0035	-2.5 to 2.5	Pass
							40	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
							50	3.85	-6.480	-0.0037	-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	-5.250	-0.0031	-2.5 to 2.5	Pass				
						3.85	-3.963	-0.0023	-2.5 to 2.5	Pass			
						4.43	-8.082	-0.0047	-2.5 to 2.5	Pass			
							-30	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass	
							-20	3.85	1.087	0.0006	-2.5 to 2.5	Pass	
							-10	3.85	-3.076	-0.0018	-2.5 to 2.5	Pass	
							0	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass	
							10	3.85	-8.039	-0.0047	-2.5 to 2.5	Pass	
							30	3.85	-9.027	-0.0053	-2.5 to 2.5	Pass	
							40	3.85	-7.138	-0.0042	-2.5 to 2.5	Pass	
							50	3.85	-4.592	-0.0027	-2.5 to 2.5	Pass	
					1732.5	15	0	20	3.27	-4.020	-0.0023	-2.5 to 2.5	Pass
									3.85	-7.639	-0.0044	-2.5 to 2.5	Pass
									4.43	-5.250	-0.0030	-2.5 to 2.5	Pass
								-30	3.85	-13.690	-0.0079	-2.5 to 2.5	Pass
								-20	3.85	-10.929	-0.0063	-2.5 to 2.5	Pass
								-10	3.85	-4.706	-0.0027	-2.5 to 2.5	Pass
								0	3.85	-2.704	-0.0016	-2.5 to 2.5	Pass
								10	3.85	-9.871	-0.0057	-2.5 to 2.5	Pass
								30	3.85	-2.303	-0.0013	-2.5 to 2.5	Pass
								40	3.85	-11.916	-0.0069	-2.5 to 2.5	Pass
								50	3.85	-8.068	-0.0047	-2.5 to 2.5	Pass
		1753.5	15	0				20	3.27	-10.471	-0.0060	-2.5 to 2.5	Pass
									3.85	-11.945	-0.0068	-2.5 to 2.5	Pass
									4.43	0.000	0.0000	-2.5 to 2.5	Pass
								-30	3.85	-5.994	-0.0034	-2.5 to 2.5	Pass
								-20	3.85	-7.725	-0.0044	-2.5 to 2.5	Pass



				-10	3.85	-8.154	-0.0047	-2.5 to 2.5	Pass
				0	3.85	-7.796	-0.0044	-2.5 to 2.5	Pass
				10	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				30	3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-5.279	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-4.292	-0.0024	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-8.183	-0.0048	-2.5 to 2.5	Pass
					3.85	-7.081	-0.0041	-2.5 to 2.5	Pass
					4.43	-7.467	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-8.311	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-5.379	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-3.448	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-8.883	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-8.082	-0.0047	-2.5 to 2.5	Pass
				30	3.85	-1.817	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-5.307	-0.0031	-2.5 to 2.5	Pass
	50	3.85	0.486	0.0003	-2.5 to 2.5	Pass			
	1732.5	15	0	20	3.27	5.951	0.0034	-2.5 to 2.5	Pass
					3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
					4.43	-2.232	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-11.401	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-4.821	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				0	3.85	1.402	0.0008	-2.5 to 2.5	Pass
				10	3.85	-2.303	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-12.617	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-0.572	-0.0003	-2.5 to 2.5	Pass
	50	3.85	-1.531	-0.0009	-2.5 to 2.5	Pass			
	1753.5	15	0	20	3.27	-8.283	-0.0047	-2.5 to 2.5	Pass
					3.85	-6.394	-0.0036	-2.5 to 2.5	Pass
					4.43	-7.839	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-7.539	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-10.114	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				0	3.85	-6.781	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-4.749	-0.0027	-2.5 to 2.5	Pass
30				3.85	-9.742	-0.0056	-2.5 to 2.5	Pass	
40				3.85	1.874	0.0011	-2.5 to 2.5	Pass	
50	3.85	-7.339	-0.0042	-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	-6.480	-0.0038	-2.5 to 2.5	Pass
					3.85	-5.693	-0.0033	-2.5 to 2.5	Pass
					4.43	-2.589	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-4.263	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-5.751	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-3.219	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-6.995	-0.0041	-2.5 to 2.5	Pass

	1732.5	25	0	30	3.85	-25.663	-0.0150	-2.5 to 2.5	Pass	
				40	3.85	-9.384	-0.0055	-2.5 to 2.5	Pass	
				50	3.85	-11.144	-0.0065	-2.5 to 2.5	Pass	
				20	3.27	-8.855	-0.0051	-2.5 to 2.5	Pass	
					3.85	-6.437	-0.0037	-2.5 to 2.5	Pass	
					4.43	-10.500	-0.0061	-2.5 to 2.5	Pass	
				-30	3.85	-7.467	-0.0043	-2.5 to 2.5	Pass	
				-20	3.85	1.402	0.0008	-2.5 to 2.5	Pass	
				-10	3.85	-1.388	-0.0008	-2.5 to 2.5	Pass	
				0	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass	
				10	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass	
				30	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass	
	40	3.85	-8.111	-0.0047	-2.5 to 2.5	Pass				
	50	3.85	-7.353	-0.0042	-2.5 to 2.5	Pass				
	1752.5	25	0	20	3.27	-10.214	-0.0058	-2.5 to 2.5	Pass	
					3.85	-17.009	-0.0097	-2.5 to 2.5	Pass	
					4.43	-13.976	-0.0080	-2.5 to 2.5	Pass	
				-30	3.85	-2.990	-0.0017	-2.5 to 2.5	Pass	
				-20	3.85	-9.356	-0.0053	-2.5 to 2.5	Pass	
				-10	3.85	-12.989	-0.0074	-2.5 to 2.5	Pass	
				0	3.85	-0.958	-0.0005	-2.5 to 2.5	Pass	
				10	3.85	-12.760	-0.0073	-2.5 to 2.5	Pass	
				30	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass	
				40	3.85	-6.924	-0.0040	-2.5 to 2.5	Pass	
				50	3.85	-6.909	-0.0039	-2.5 to 2.5	Pass	
				16QAM	1712.5	25	0	20	3.27	-3.505
	3.85	-2.761	-0.0016						-2.5 to 2.5	Pass
	4.43	-6.380	-0.0037						-2.5 to 2.5	Pass
	-30	3.85	-6.294					-0.0037	-2.5 to 2.5	Pass
	-20	3.85	-5.722					-0.0033	-2.5 to 2.5	Pass
-10	3.85	-9.241	-0.0054					-2.5 to 2.5	Pass	
0	3.85	-9.327	-0.0054					-2.5 to 2.5	Pass	
10	3.85	-1.874	-0.0011					-2.5 to 2.5	Pass	
30	3.85	-10.014	-0.0058					-2.5 to 2.5	Pass	
40	3.85	-3.576	-0.0021					-2.5 to 2.5	Pass	
50	3.85	-15.750	-0.0092					-2.5 to 2.5	Pass	
1732.5	25	0	20					3.27	-10.071	-0.0058
					3.85	-6.323	-0.0036	-2.5 to 2.5	Pass	
					4.43	-9.699	-0.0056	-2.5 to 2.5	Pass	
			-30		3.85	-8.698	-0.0050	-2.5 to 2.5	Pass	
			-20		3.85	-9.027	-0.0052	-2.5 to 2.5	Pass	
			-10		3.85	-7.882	-0.0045	-2.5 to 2.5	Pass	
			0		3.85	-2.389	-0.0014	-2.5 to 2.5	Pass	
			10		3.85	-5.951	-0.0034	-2.5 to 2.5	Pass	
			30		3.85	-4.878	-0.0028	-2.5 to 2.5	Pass	
			40		3.85	-4.864	-0.0028	-2.5 to 2.5	Pass	
			50		3.85	-8.869	-0.0051	-2.5 to 2.5	Pass	
			1752.5		25	0	20	3.27	-5.808	-0.0033
3.85	-8.397	-0.0048						-2.5 to 2.5	Pass	
4.43	-9.255	-0.0053						-2.5 to 2.5	Pass	
-30	3.85	0.172					0.0001	-2.5 to 2.5	Pass	
-20	3.85	-8.712					-0.0050	-2.5 to 2.5	Pass	
-10	3.85	-5.364					-0.0031	-2.5 to 2.5	Pass	
0	3.85	-11.287					-0.0064	-2.5 to 2.5	Pass	
10	3.85	-1.159					-0.0007	-2.5 to 2.5	Pass	
30	3.85	-5.250		-0.0030			-2.5 to 2.5	Pass		
40	3.85	-8.297		-0.0047			-2.5 to 2.5	Pass		

				50	3.85	-4.935	-0.0028	-2.5 to 2.5	Pass
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## 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	-5.865	-0.0034	-2.5 to 2.5	Pass
					3.85	-8.426	-0.0049	-2.5 to 2.5	Pass
					4.43	-7.424	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-8.411	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-17.266	-0.0101	-2.5 to 2.5	Pass
				0	3.85	-5.422	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-4.091	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-9.098	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-9.699	-0.0057	-2.5 to 2.5	Pass
	50	3.85	-10.057	-0.0059	-2.5 to 2.5	Pass			
	1732.5	50	0	20	3.27	-6.695	-0.0039	-2.5 to 2.5	Pass
					3.85	-2.031	-0.0012	-2.5 to 2.5	Pass
					4.43	-4.849	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-8.311	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-7.854	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-8.225	-0.0047	-2.5 to 2.5	Pass
				10	3.85	-8.068	-0.0047	-2.5 to 2.5	Pass
				30	3.85	-6.652	-0.0038	-2.5 to 2.5	Pass
				40	3.85	1.903	0.0011	-2.5 to 2.5	Pass
	50	3.85	-4.821	-0.0028	-2.5 to 2.5	Pass			
	1750	50	0	20	3.27	-8.283	-0.0047	-2.5 to 2.5	Pass
					3.85	-8.712	-0.0050	-2.5 to 2.5	Pass
					4.43	-8.841	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-9.813	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-14.319	-0.0082	-2.5 to 2.5	Pass
				-10	3.85	-8.054	-0.0046	-2.5 to 2.5	Pass
				0	3.85	-10.715	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-11.101	-0.0063	-2.5 to 2.5	Pass
30				3.85	-8.941	-0.0051	-2.5 to 2.5	Pass	
40				3.85	-6.294	-0.0036	-2.5 to 2.5	Pass	
50	3.85	-6.981	-0.0040	-2.5 to 2.5	Pass				
16QAM	1715	50	0	20	3.27	-6.595	-0.0038	-2.5 to 2.5	Pass
					3.85	-3.819	-0.0022	-2.5 to 2.5	Pass
					4.43	-8.597	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-6.166	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-13.361	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-8.268	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-8.712	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-10.486	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-6.580	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-10.386	-0.0061	-2.5 to 2.5	Pass
	50	3.85	-8.469	-0.0049	-2.5 to 2.5	Pass			
	1732.5	50	0	20	3.27	-6.337	-0.0037	-2.5 to 2.5	Pass
					3.85	-7.954	-0.0046	-2.5 to 2.5	Pass

					4.43	-6.595	-0.0038	-2.5 to 2.5	Pass			
				-30	3.85	-6.537	-0.0038	-2.5 to 2.5	Pass			
				-20	3.85	-7.739	-0.0045	-2.5 to 2.5	Pass			
				-10	3.85	-1.631	-0.0009	-2.5 to 2.5	Pass			
				0	3.85	-8.898	-0.0051	-2.5 to 2.5	Pass			
				10	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass			
				30	3.85	-9.298	-0.0054	-2.5 to 2.5	Pass			
				40	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass			
				50	3.85	-3.462	-0.0020	-2.5 to 2.5	Pass			
	1750	50	0	20	3.27	-3.862	-0.0022	-2.5 to 2.5	Pass			
								3.85	-4.978	-0.0028	-2.5 to 2.5	Pass
								4.43	-2.961	-0.0017	-2.5 to 2.5	Pass
							-30	3.85	-3.347	-0.0019	-2.5 to 2.5	Pass
							-20	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
							-10	3.85	-6.037	-0.0034	-2.5 to 2.5	Pass
							0	3.85	-8.583	-0.0049	-2.5 to 2.5	Pass
							10	3.85	-11.172	-0.0064	-2.5 to 2.5	Pass
							30	3.85	-7.024	-0.0040	-2.5 to 2.5	Pass
							40	3.85	-9.384	-0.0054	-2.5 to 2.5	Pass
							50	3.85	-6.595	-0.0038	-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	-4.849	-0.0028	-2.5 to 2.5	Pass					
						3.85	-4.821	-0.0028	-2.5 to 2.5	Pass				
						4.43	-5.250	-0.0031	-2.5 to 2.5	Pass				
					-30	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass				
					-20	3.85	-5.322	-0.0031	-2.5 to 2.5	Pass				
					-10	3.85	-7.925	-0.0046	-2.5 to 2.5	Pass				
					0	3.85	-7.782	-0.0045	-2.5 to 2.5	Pass				
					10	3.85	-8.125	-0.0047	-2.5 to 2.5	Pass				
					30	3.85	-6.809	-0.0040	-2.5 to 2.5	Pass				
					40	3.85	-3.047	-0.0018	-2.5 to 2.5	Pass				
					50	3.85	-6.251	-0.0036	-2.5 to 2.5	Pass				
					1732.5	75	0	20	3.27	-3.362	-0.0019	-2.5 to 2.5	Pass	
										3.85	-5.751	-0.0033	-2.5 to 2.5	Pass
										4.43	-3.819	-0.0022	-2.5 to 2.5	Pass
									-30	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
			-20	3.85				-8.440	-0.0049	-2.5 to 2.5	Pass			
			-10	3.85				-5.350	-0.0031	-2.5 to 2.5	Pass			
			0	3.85				-4.220	-0.0024	-2.5 to 2.5	Pass			
			10	3.85				-5.879	-0.0034	-2.5 to 2.5	Pass			
			30	3.85				-6.938	-0.0040	-2.5 to 2.5	Pass			
			40	3.85				-8.554	-0.0049	-2.5 to 2.5	Pass			
			50	3.85				-4.320	-0.0025	-2.5 to 2.5	Pass			
		1747.5	75	0				20	3.27	-6.022	-0.0034	-2.5 to 2.5	Pass	
										3.85	-6.895	-0.0039	-2.5 to 2.5	Pass
										4.43	-12.560	-0.0072	-2.5 to 2.5	Pass
									-30	3.85	-8.826	-0.0051	-2.5 to 2.5	Pass
						-20	3.85	-3.219	-0.0018	-2.5 to 2.5	Pass			

				-10	3.85	-11.516	-0.0066	-2.5 to 2.5	Pass
				0	3.85	-6.909	-0.0040	-2.5 to 2.5	Pass
				10	3.85	-9.928	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-6.652	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-6.466	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-4.492	-0.0026	-2.5 to 2.5	Pass
					3.85	-6.151	-0.0036	-2.5 to 2.5	Pass
					4.43	-8.354	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-3.490	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-8.612	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-4.148	-0.0024	-2.5 to 2.5	Pass
				0	3.85	-7.024	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-10.099	-0.0059	-2.5 to 2.5	Pass
				30	3.85	-2.947	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-7.582	-0.0044	-2.5 to 2.5	Pass
	50	3.85	-3.133	-0.0018	-2.5 to 2.5	Pass			
	1732.5	75	0	20	3.27	-2.518	-0.0015	-2.5 to 2.5	Pass
					3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
					4.43	-2.875	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-8.097	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-4.921	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-3.762	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-6.051	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-2.503	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-3.161	-0.0018	-2.5 to 2.5	Pass
	50	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass			
	1747.5	75	0	20	3.27	-7.882	-0.0045	-2.5 to 2.5	Pass
					3.85	-6.394	-0.0037	-2.5 to 2.5	Pass
					4.43	-5.636	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-7.396	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-4.621	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-5.980	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-4.935	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-10.715	-0.0061	-2.5 to 2.5	Pass
30				3.85	-8.039	-0.0046	-2.5 to 2.5	Pass	
40				3.85	-11.816	-0.0068	-2.5 to 2.5	Pass	
50	3.85	-8.097	-0.0046	-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	-5.836	-0.0034	-2.5 to 2.5	Pass
					3.85	-8.726	-0.0051	-2.5 to 2.5	Pass
					4.43	-8.326	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-3.376	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-9.384	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-11.001	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-3.548	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-3.219	-0.0019	-2.5 to 2.5	Pass

	1732.5	100	0	30	3.85	-5.250	-0.0031	-2.5 to 2.5	Pass	
				40	3.85	-9.084	-0.0053	-2.5 to 2.5	Pass	
				50	3.85	-5.322	-0.0031	-2.5 to 2.5	Pass	
				20	3.27	-2.189	-0.0013	-2.5 to 2.5	Pass	
					3.85	-3.791	-0.0022	-2.5 to 2.5	Pass	
					4.43	-7.796	-0.0045	-2.5 to 2.5	Pass	
				-30	3.85	-8.254	-0.0048	-2.5 to 2.5	Pass	
				-20	3.85	-3.405	-0.0020	-2.5 to 2.5	Pass	
				-10	3.85	-6.194	-0.0036	-2.5 to 2.5	Pass	
	0	3.85	-6.881	-0.0040	-2.5 to 2.5	Pass				
	10	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass				
	30	3.85	-2.789	-0.0016	-2.5 to 2.5	Pass				
	40	3.85	-1.945	-0.0011	-2.5 to 2.5	Pass				
	50	3.85	-2.275	-0.0013	-2.5 to 2.5	Pass				
	1745	100	0	20	3.27	-3.333	-0.0019	-2.5 to 2.5	Pass	
					3.85	-5.751	-0.0033	-2.5 to 2.5	Pass	
					4.43	-2.046	-0.0012	-2.5 to 2.5	Pass	
				-30	3.85	-3.247	-0.0019	-2.5 to 2.5	Pass	
				-20	3.85	-5.736	-0.0033	-2.5 to 2.5	Pass	
				-10	3.85	-7.339	-0.0042	-2.5 to 2.5	Pass	
				0	3.85	-6.895	-0.0040	-2.5 to 2.5	Pass	
				10	3.85	-6.008	-0.0034	-2.5 to 2.5	Pass	
				30	3.85	-4.234	-0.0024	-2.5 to 2.5	Pass	
				40	3.85	-7.925	-0.0045	-2.5 to 2.5	Pass	
				50	3.85	-4.249	-0.0024	-2.5 to 2.5	Pass	
				16QAM	1720	100	0	20	3.27	-5.751
	3.85	-5.064	-0.0029						-2.5 to 2.5	Pass
	4.43	-8.154	-0.0047						-2.5 to 2.5	Pass
	-30	3.85	-9.370					-0.0054	-2.5 to 2.5	Pass
	-20	3.85	-12.302					-0.0072	-2.5 to 2.5	Pass
-10	3.85	-10.457	-0.0061					-2.5 to 2.5	Pass	
0	3.85	-7.725	-0.0045					-2.5 to 2.5	Pass	
10	3.85	-12.817	-0.0075					-2.5 to 2.5	Pass	
30	3.85	-4.835	-0.0028					-2.5 to 2.5	Pass	
40	3.85	-8.340	-0.0048		-2.5 to 2.5	Pass				
50	3.85	-4.406	-0.0026		-2.5 to 2.5	Pass				
1732.5	100	0	20		3.27	-3.848	-0.0022	-2.5 to 2.5	Pass	
					3.85	-4.578	-0.0026	-2.5 to 2.5	Pass	
					4.43	-7.210	-0.0042	-2.5 to 2.5	Pass	
			-30		3.85	-5.393	-0.0031	-2.5 to 2.5	Pass	
			-20		3.85	-5.450	-0.0031	-2.5 to 2.5	Pass	
			-10		3.85	-5.050	-0.0029	-2.5 to 2.5	Pass	
			0		3.85	-5.836	-0.0034	-2.5 to 2.5	Pass	
			10		3.85	-6.394	-0.0037	-2.5 to 2.5	Pass	
			30		3.85	-6.909	-0.0040	-2.5 to 2.5	Pass	
40	3.85	-4.735	-0.0027		-2.5 to 2.5	Pass				
50	3.85	-6.166	-0.0036		-2.5 to 2.5	Pass				
1745	100	0	20		3.27	-6.108	-0.0035	-2.5 to 2.5	Pass	
					3.85	-8.054	-0.0046	-2.5 to 2.5	Pass	
					4.43	-7.610	-0.0044	-2.5 to 2.5	Pass	
			-30		3.85	-4.277	-0.0025	-2.5 to 2.5	Pass	
			-20		3.85	-7.181	-0.0041	-2.5 to 2.5	Pass	
			-10		3.85	-8.197	-0.0047	-2.5 to 2.5	Pass	
			0		3.85	-3.505	-0.0020	-2.5 to 2.5	Pass	
			10		3.85	-7.324	-0.0042	-2.5 to 2.5	Pass	
			30	3.85	-4.263	-0.0024	-2.5 to 2.5	Pass		
40	3.85	-5.093	-0.0029	-2.5 to 2.5	Pass					

				50	3.85	-0.615	-0.0004	-2.5 to 2.5	Pass
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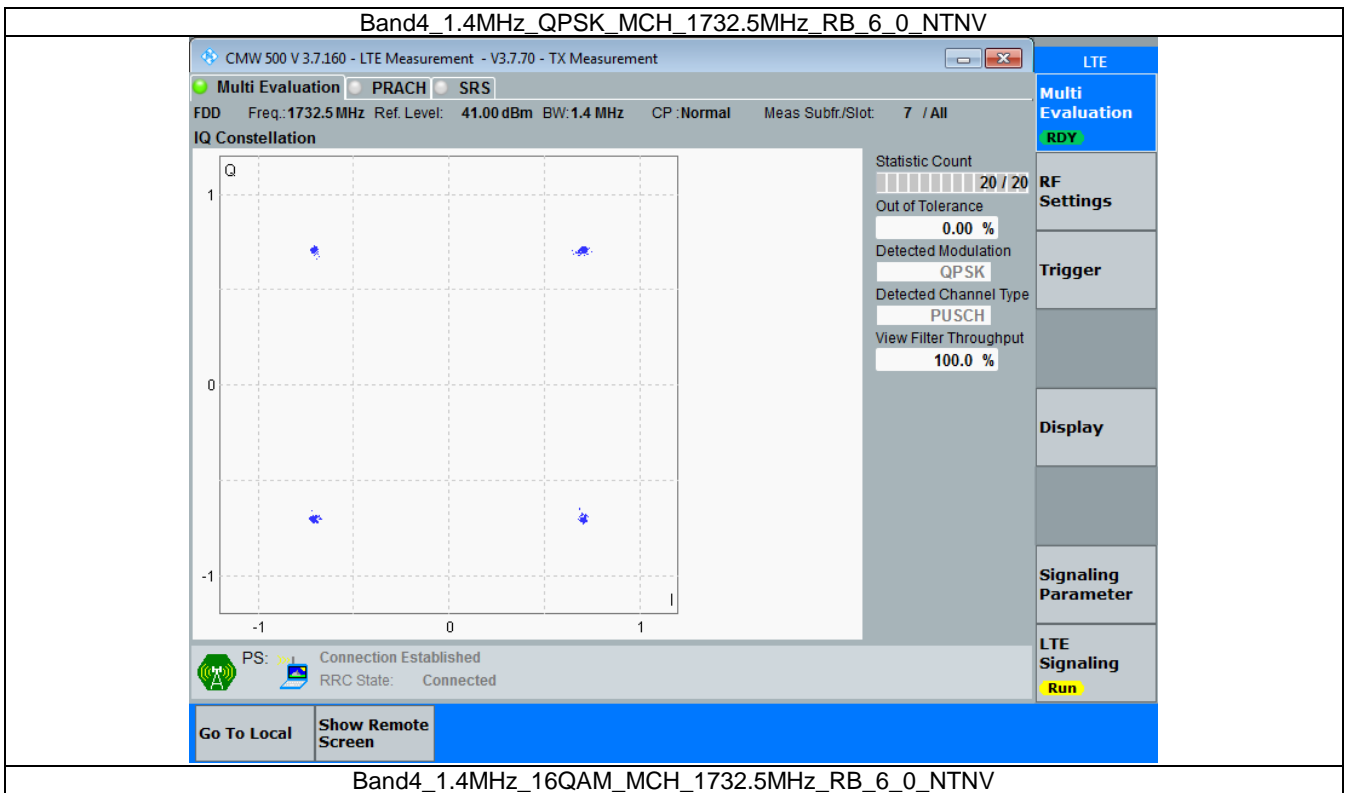
### 3. Modulation Characteristics

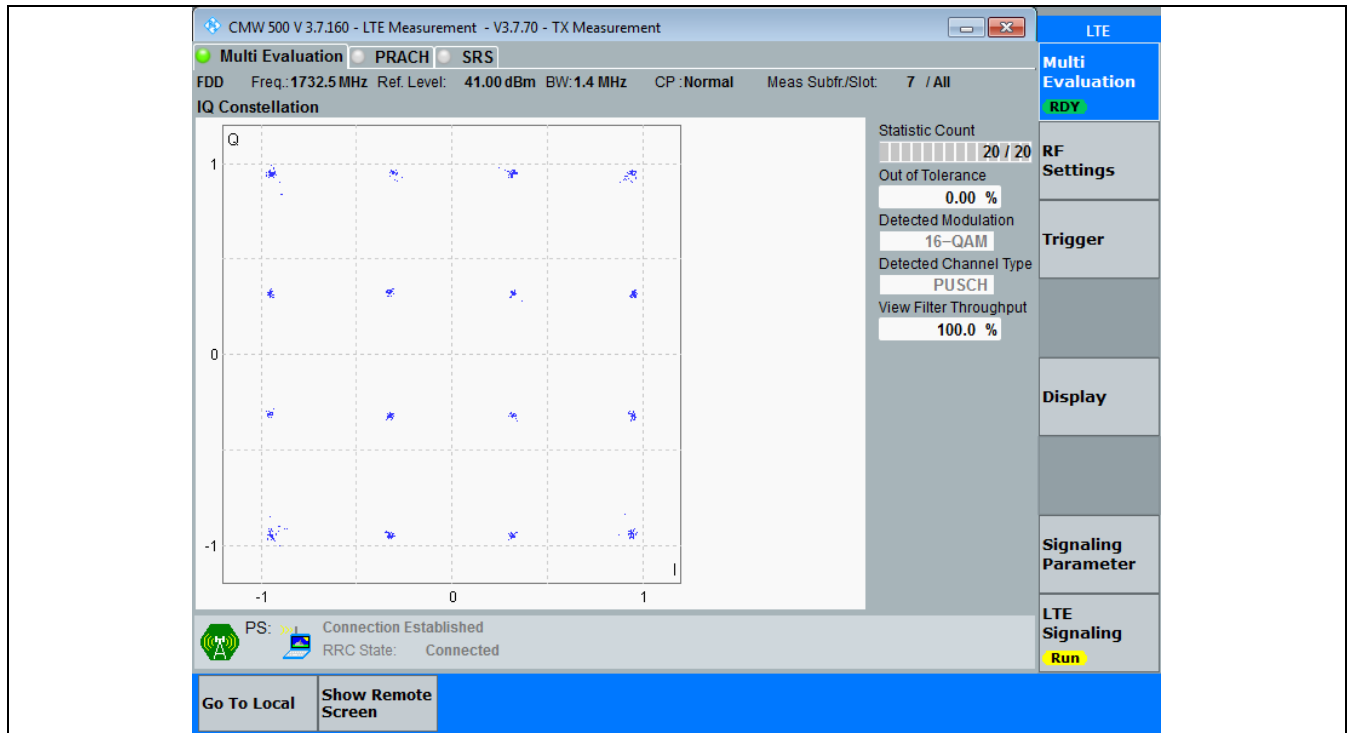
#### 3.1 B4\_1.4MHz

##### 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

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

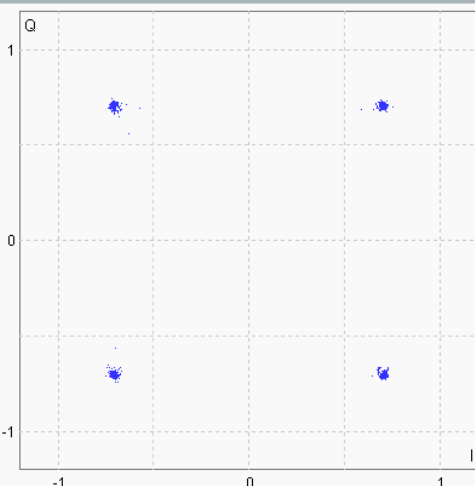


CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 1732.5 MHz Ref. Level: 41.00 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 7 / All

IQ Constellation



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

PS: Connection Established RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling Run

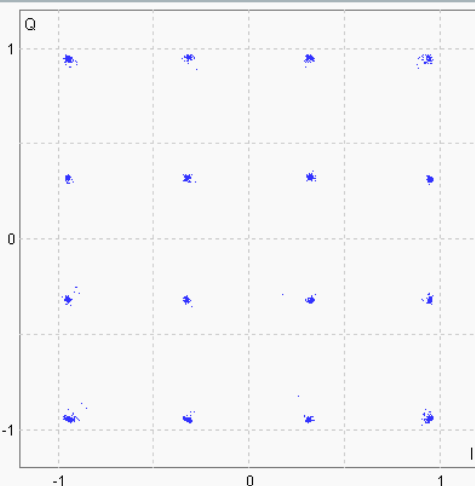
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV

CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 1732.5 MHz Ref. Level: 41.00 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 7 / All

IQ Constellation



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

PS: Connection Established RRC State: Connected

Go To Local Show Remote Screen

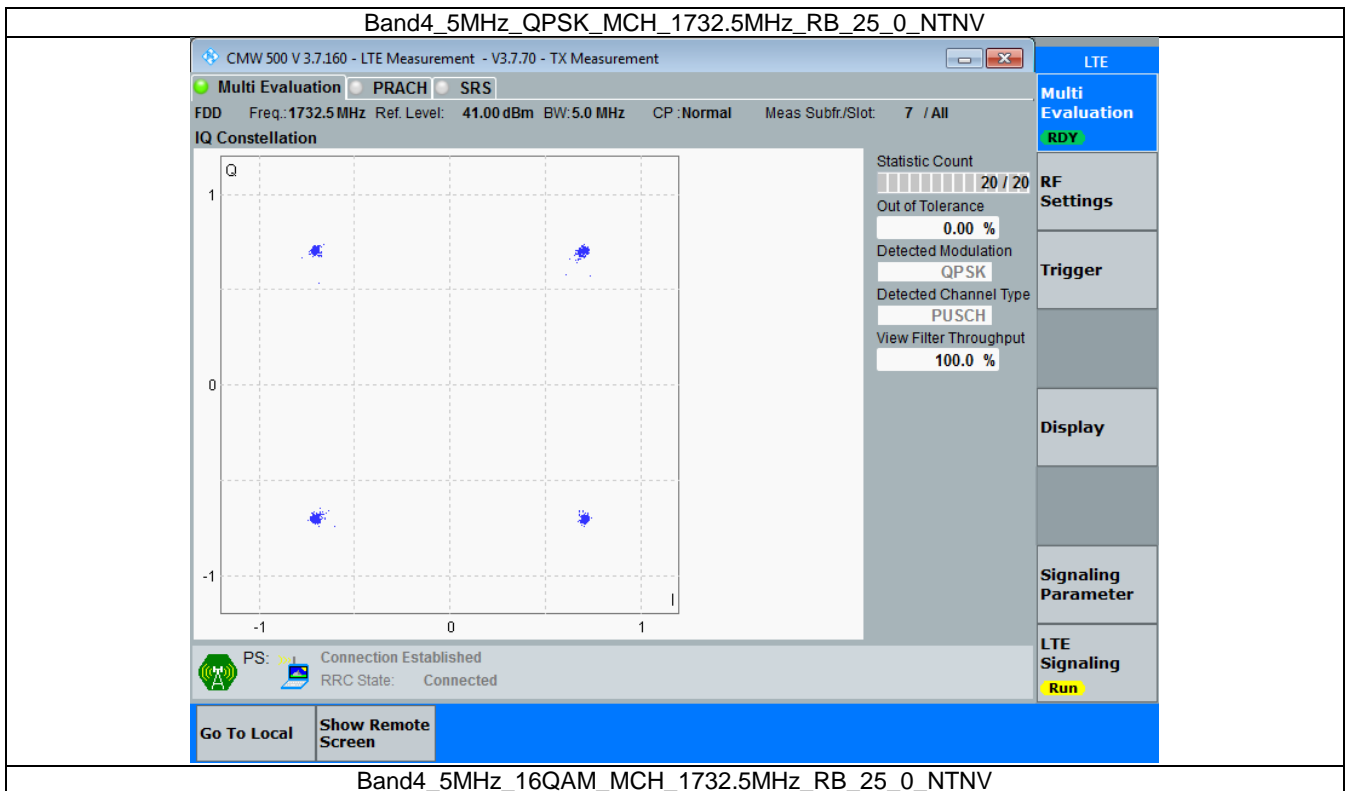
LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling Run

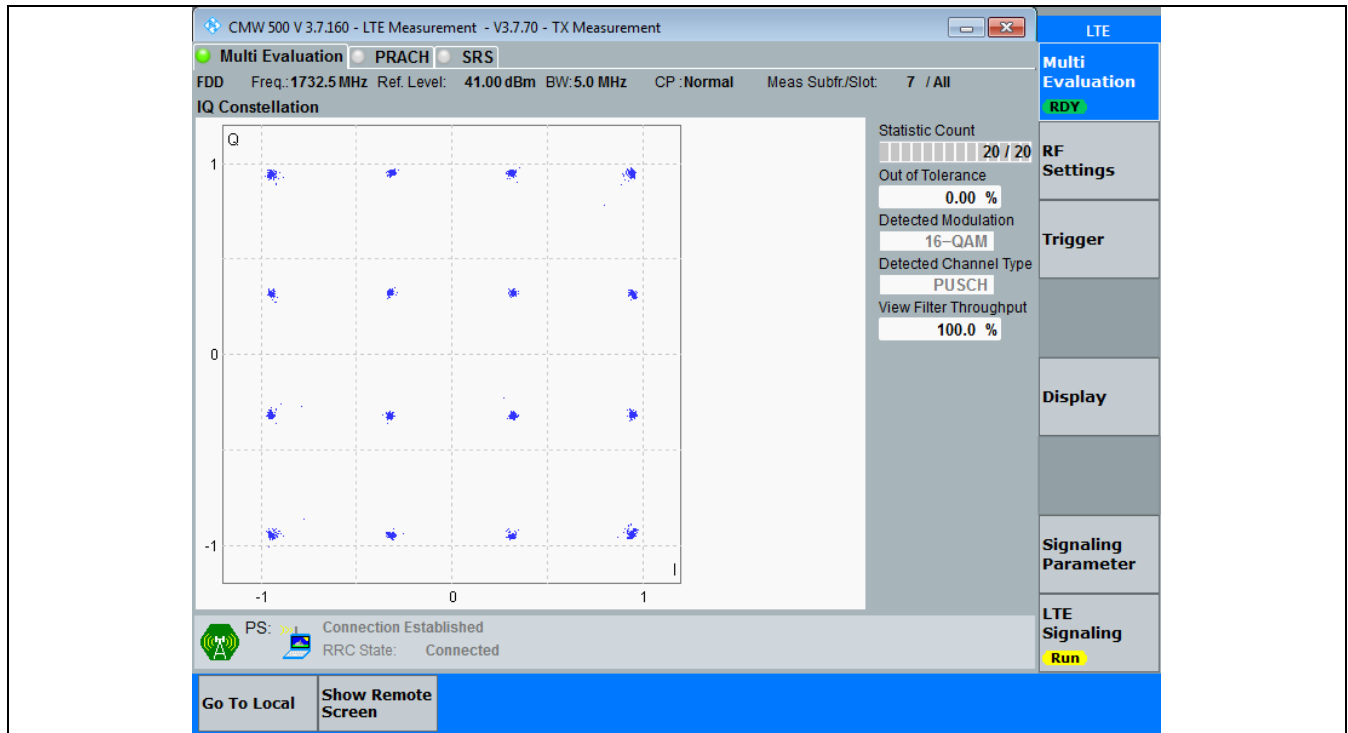
3.3 B4\_5MHz

### 3.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTN						
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





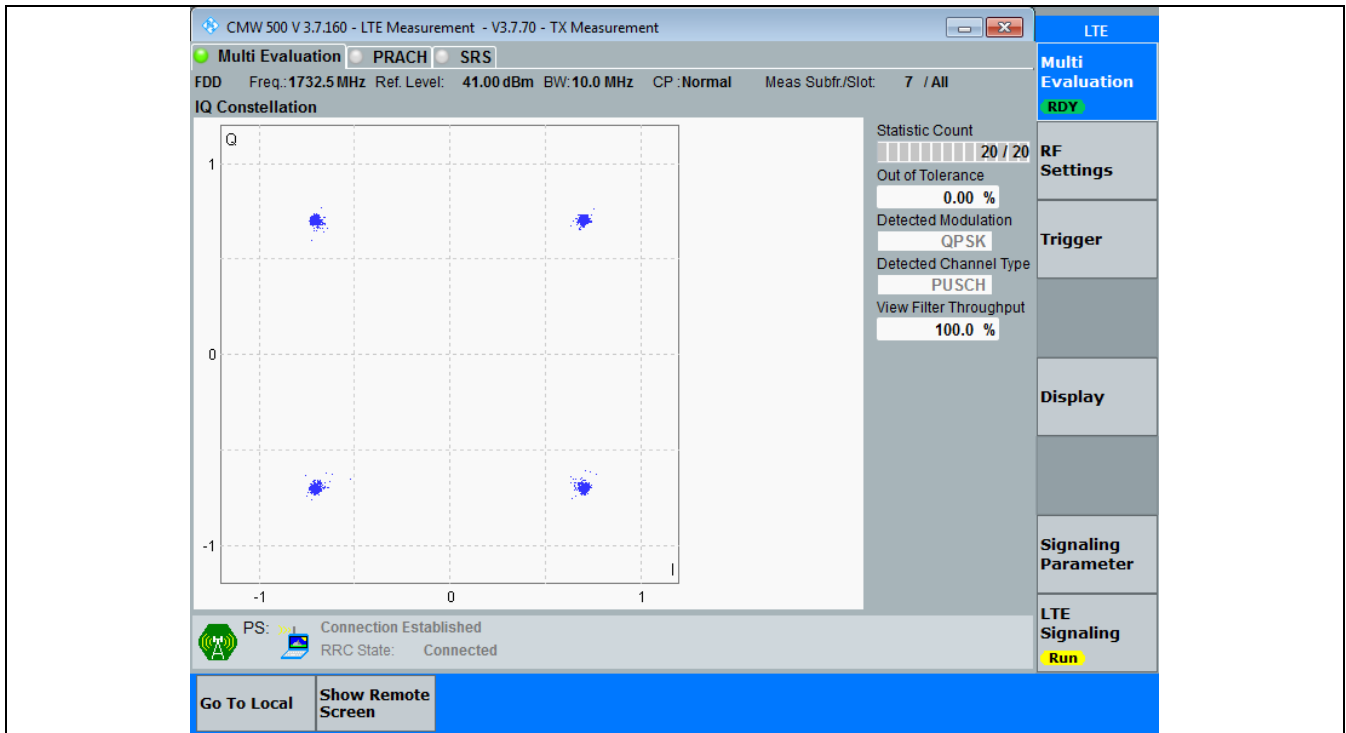
### 3.4 B4\_10MHz

#### 3.4.1 Test Result

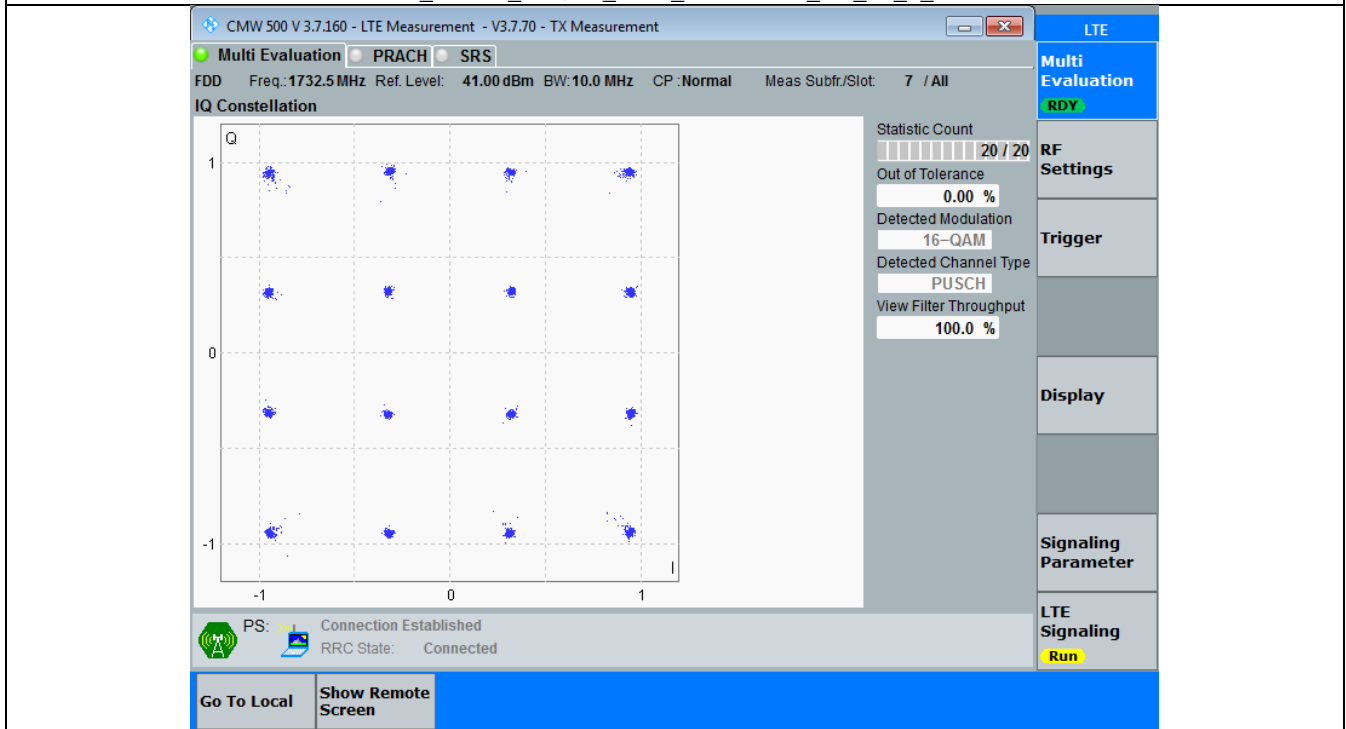
Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

#### 3.4.2 Test Graph

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



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

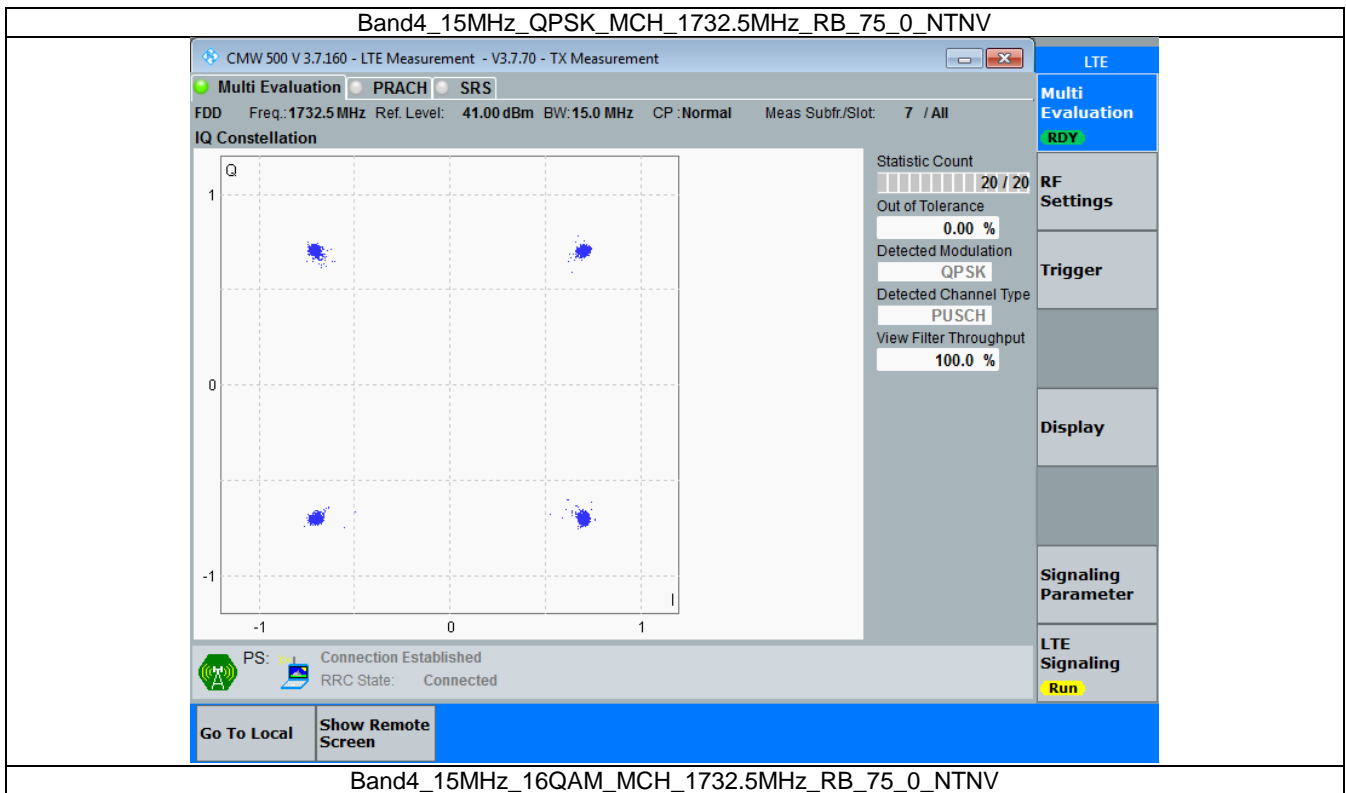


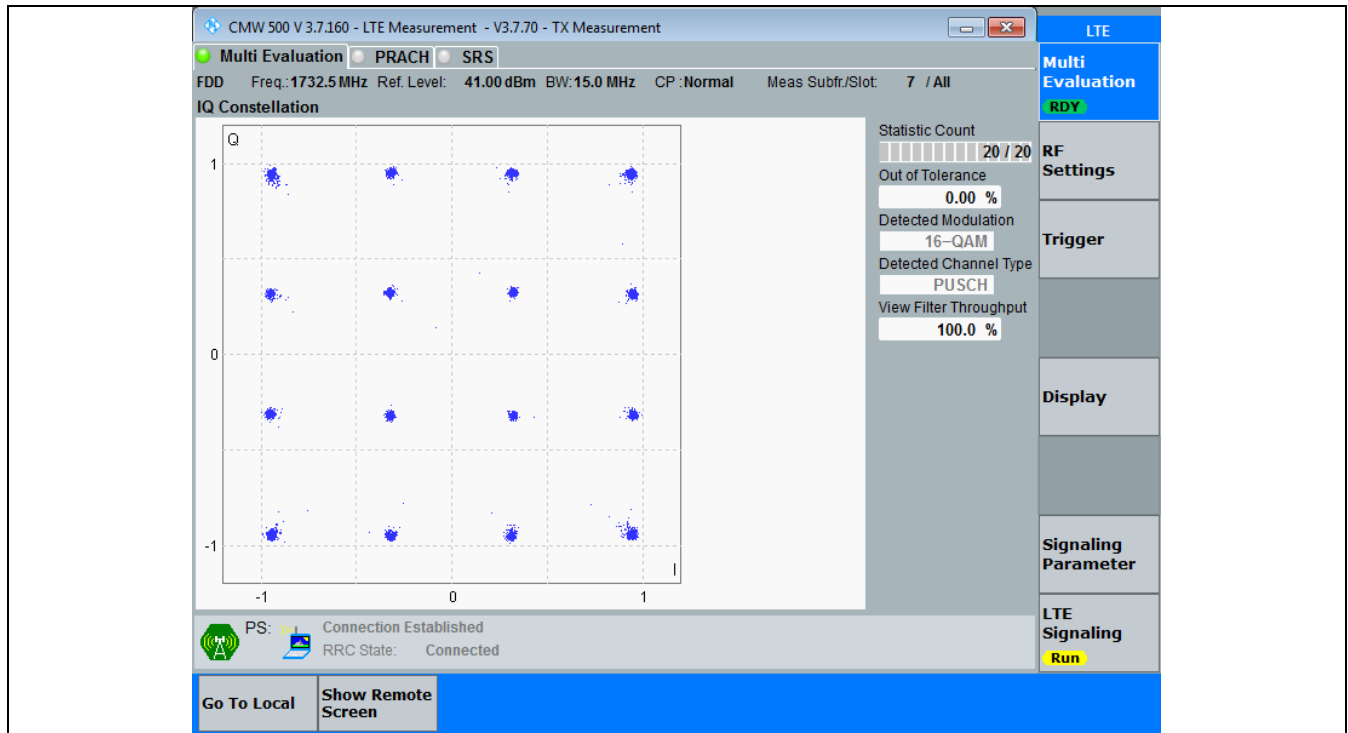
3.5 B4\_15MHz

### 3.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTN						
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 / NTN						
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

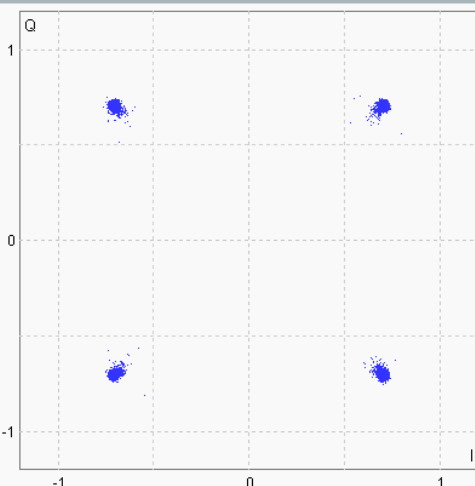
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV

CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 1732.5 MHz Ref. Level: 41.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr./Slot: 7 / All

IQ Constellation



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

PS: Connection Established  
 RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling Run

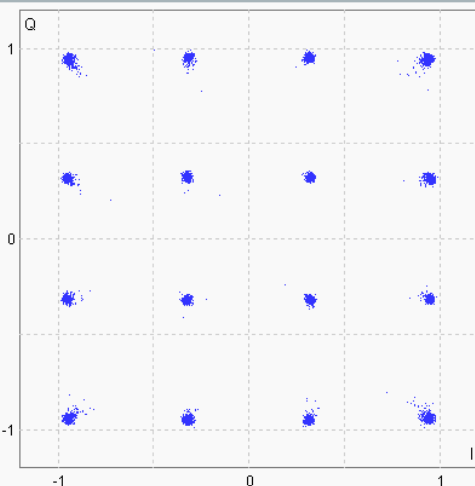
Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV

CMW 500 V 3.7.160 - LTE Measurement - V3.7.70 - TX Measurement

Multi Evaluation PRACH SRS

FDD Freq.: 1732.5 MHz Ref. Level: 41.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr./Slot: 7 / All

IQ Constellation



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

PS: Connection Established  
 RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling Run

## 4. 99% & 26dB Bandwidth

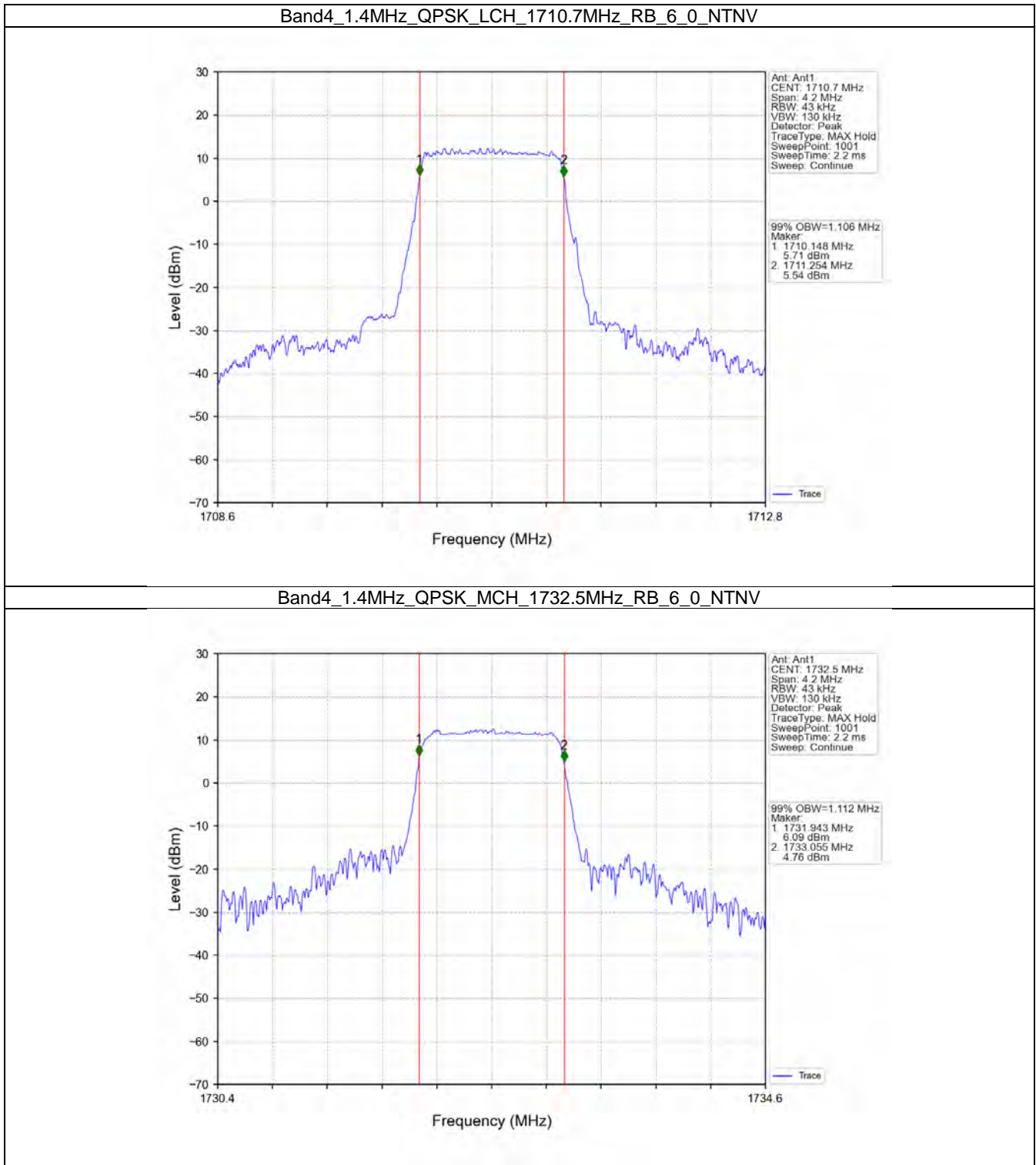
### 4.1 Band4\_OBW

#### 4.1.1 Test Result

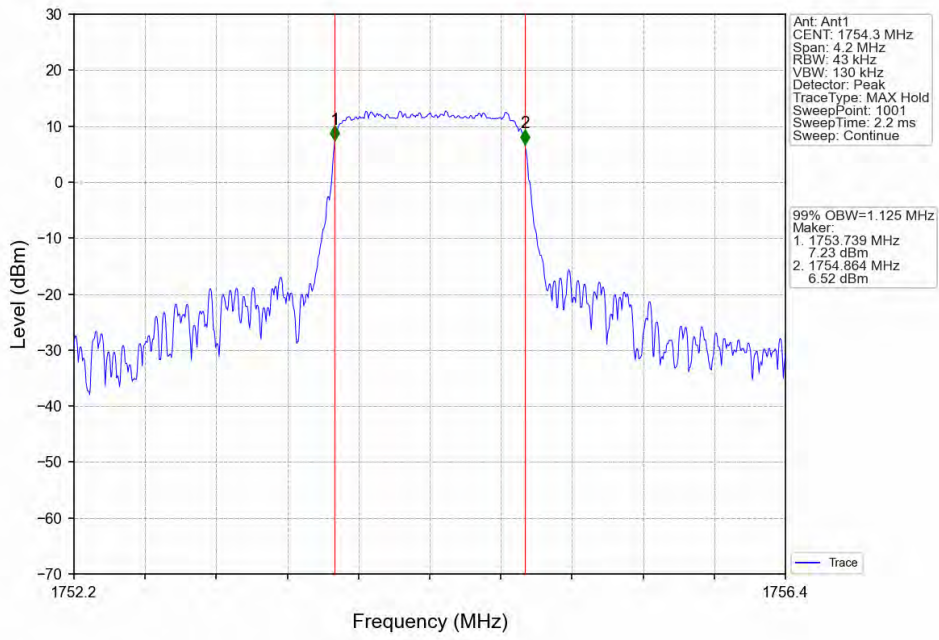
Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.106	/	Pass
		1732.5	6	0	1.112	/	Pass
		1754.3	6	0	1.125	/	Pass
	16QAM	1710.7	6	0	1.107	/	Pass
		1732.5	6	0	1.123	/	Pass
		1754.3	6	0	1.112	/	Pass
3	QPSK	1711.5	15	0	2.731	/	Pass
		1732.5	15	0	2.730	/	Pass
		1753.5	15	0	2.729	/	Pass
	16QAM	1711.5	15	0	2.713	/	Pass
		1732.5	15	0	2.724	/	Pass
		1753.5	15	0	2.715	/	Pass
5	QPSK	1712.5	25	0	4.568	/	Pass
		1732.5	25	0	4.553	/	Pass
		1752.5	25	0	4.567	/	Pass
	16QAM	1712.5	25	0	4.588	/	Pass
		1732.5	25	0	4.597	/	Pass
		1752.5	25	0	4.559	/	Pass
10	QPSK	1715	50	0	9.102	/	Pass
		1732.5	50	0	9.055	/	Pass
		1750	50	0	9.093	/	Pass
	16QAM	1715	50	0	9.070	/	Pass
		1732.5	50	0	9.081	/	Pass
		1750	50	0	9.103	/	Pass
15	QPSK	1717.5	75	0	13.614	/	Pass
		1732.5	75	0	13.593	/	Pass
		1747.5	75	0	13.658	/	Pass
	16QAM	1717.5	75	0	13.652	/	Pass
		1732.5	75	0	13.641	/	Pass
		1747.5	75	0	13.643	/	Pass
20	QPSK	1720	100	0	18.169	/	Pass
		1732.5	100	0	18.147	/	Pass
		1745	100	0	18.219	/	Pass
	16QAM	1720	100	0	18.149	/	Pass
		1732.5	100	0	18.140	/	Pass
		1745	100	0	18.238	/	Pass



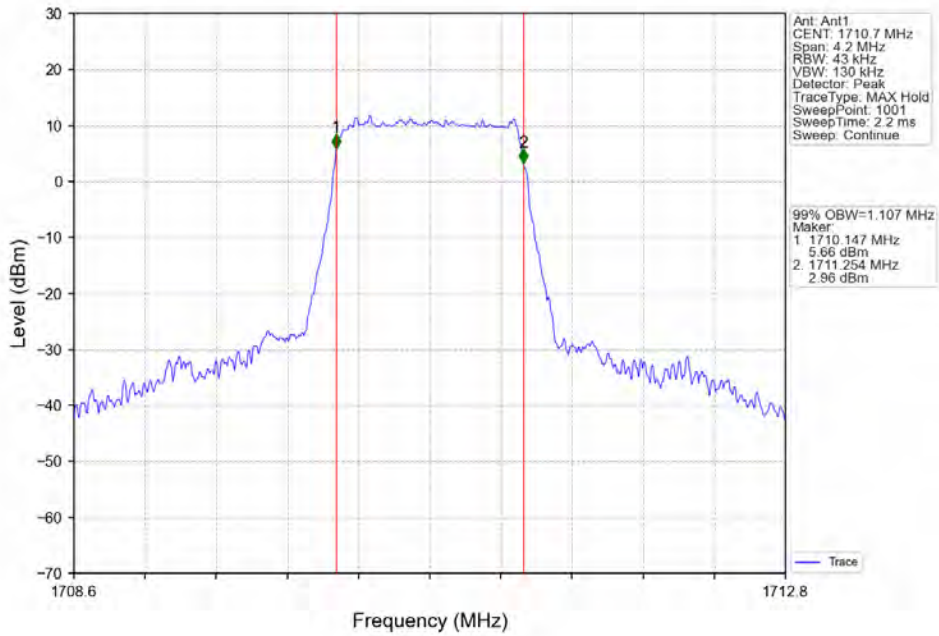
### 4.1.2 Test Graph



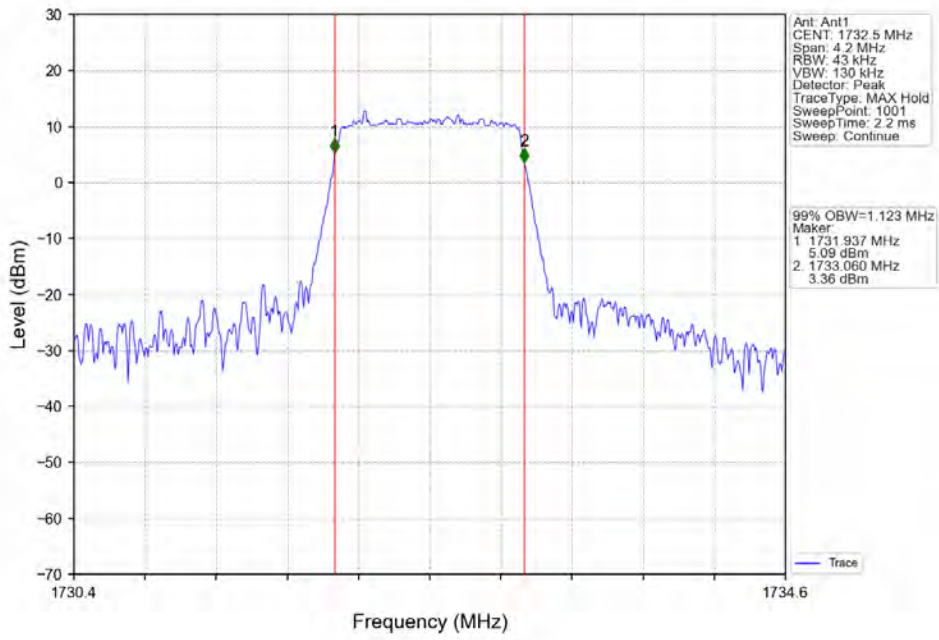
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



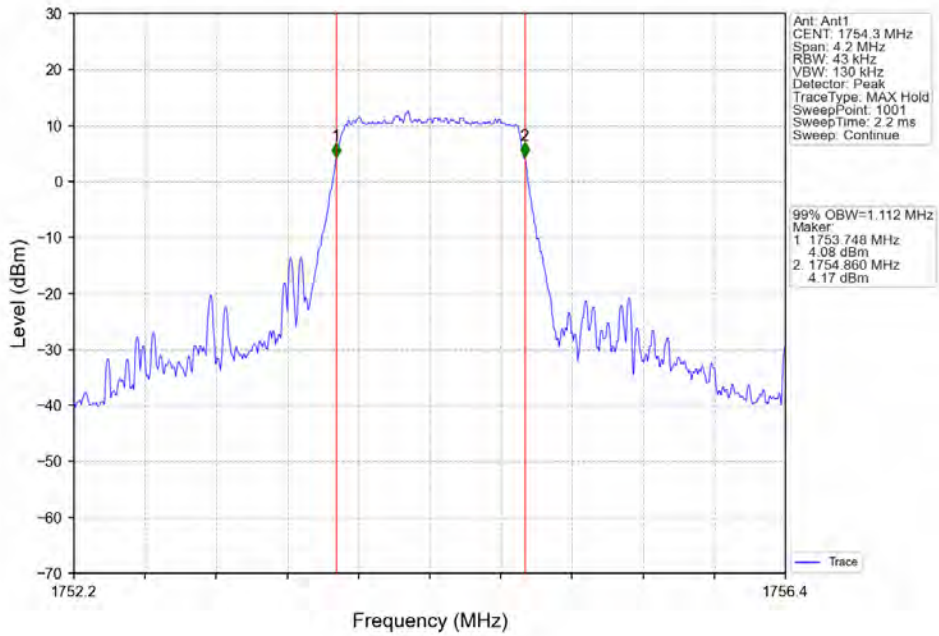
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



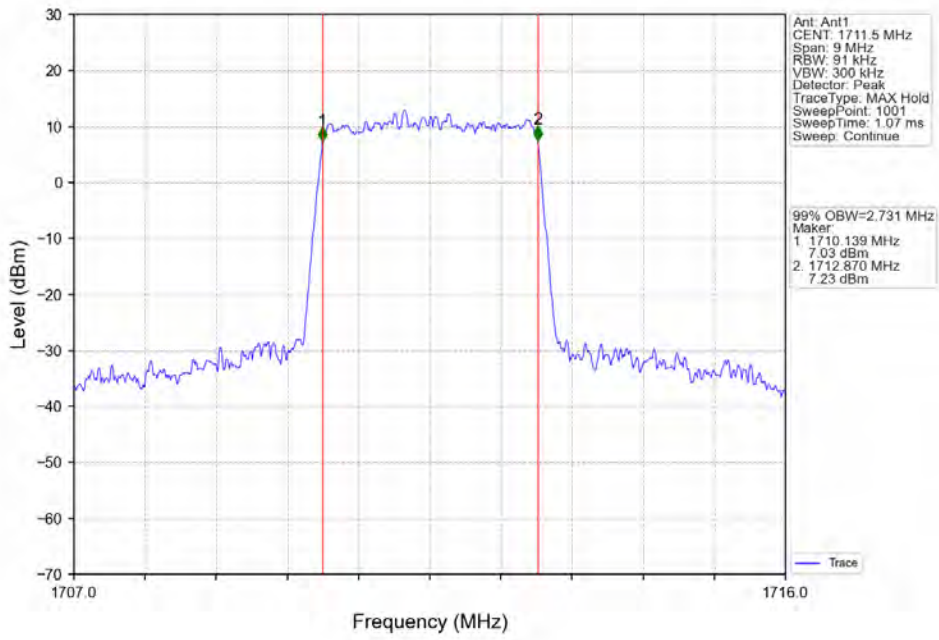
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



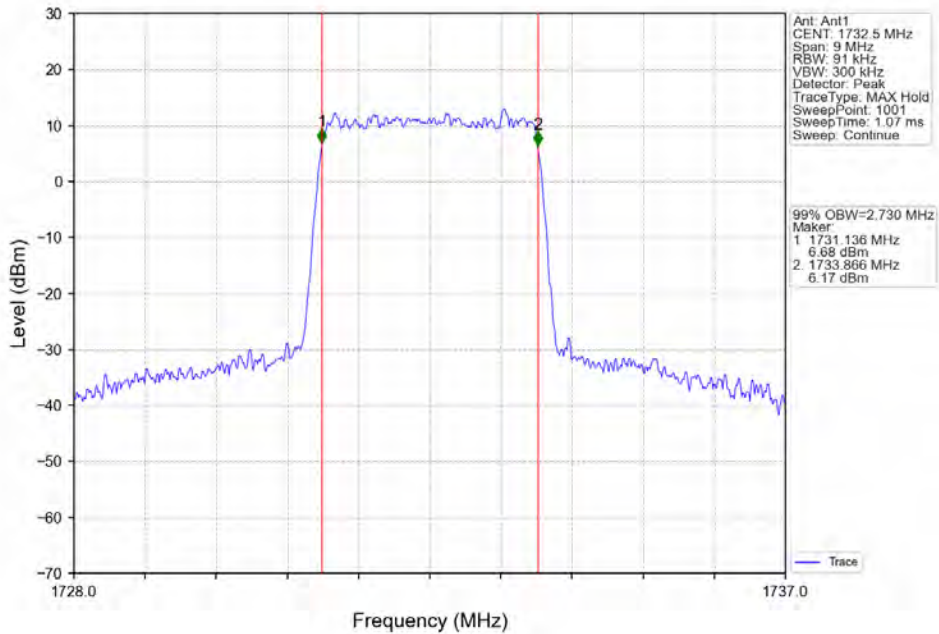
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



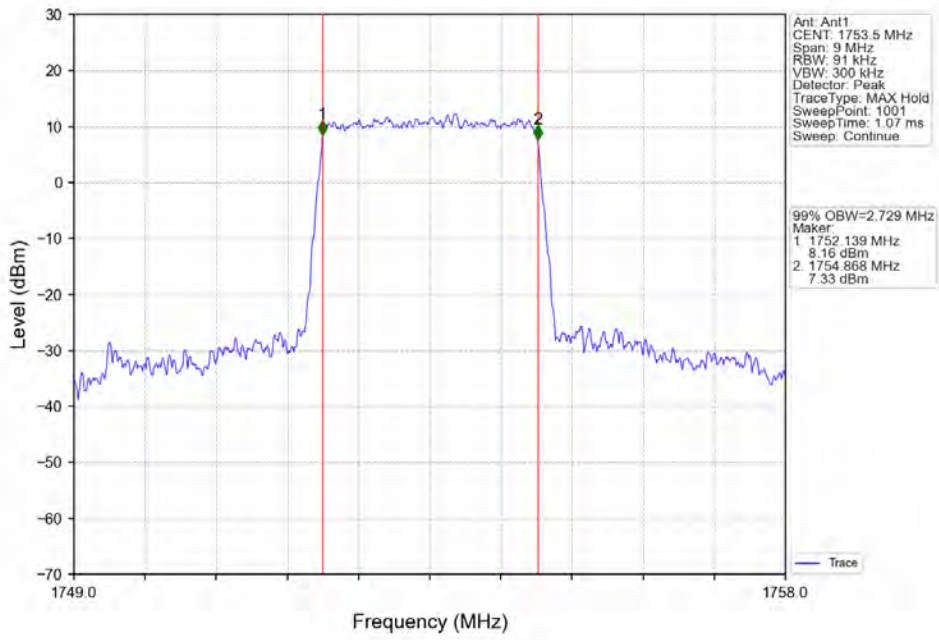
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



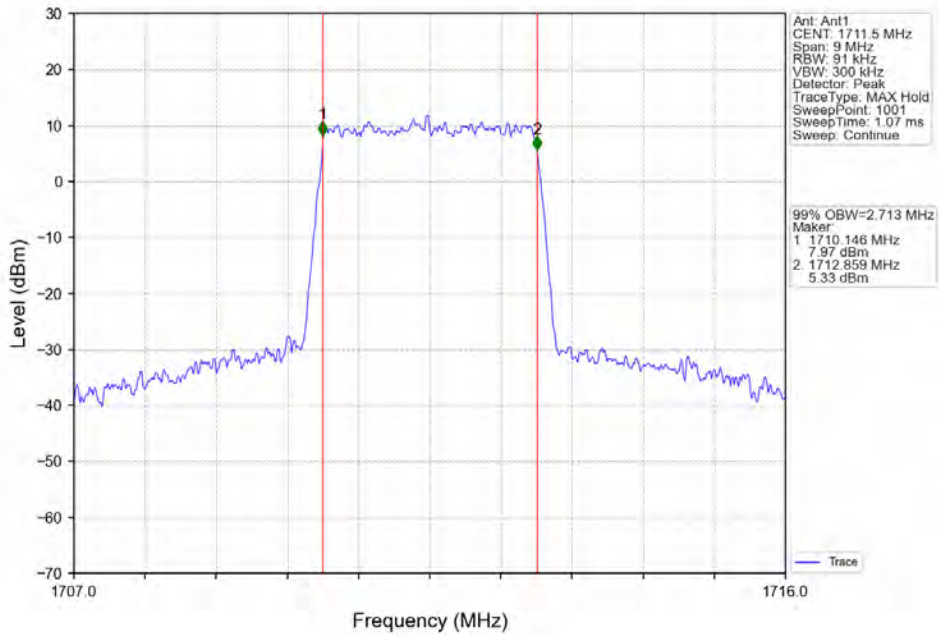
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



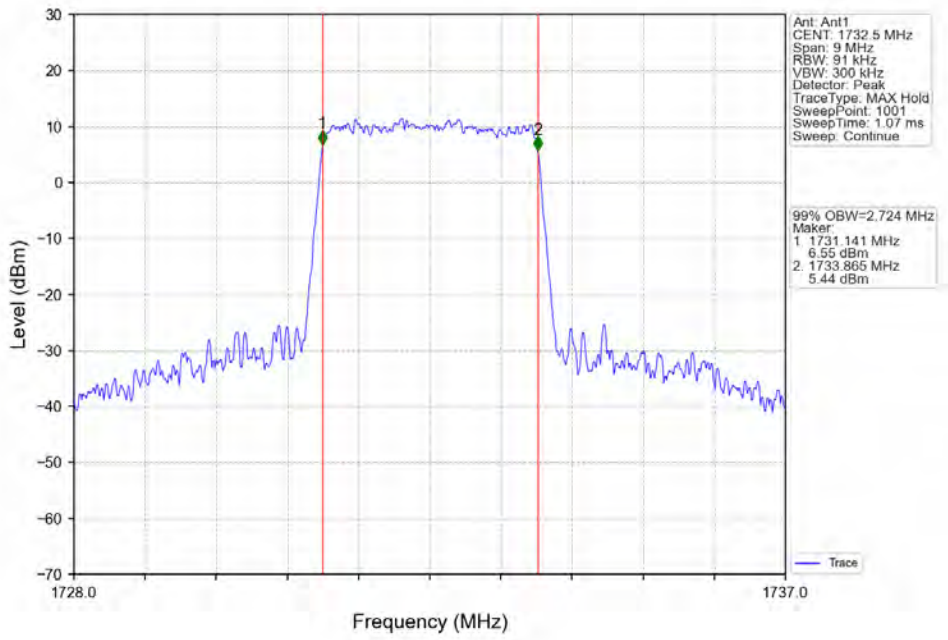
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



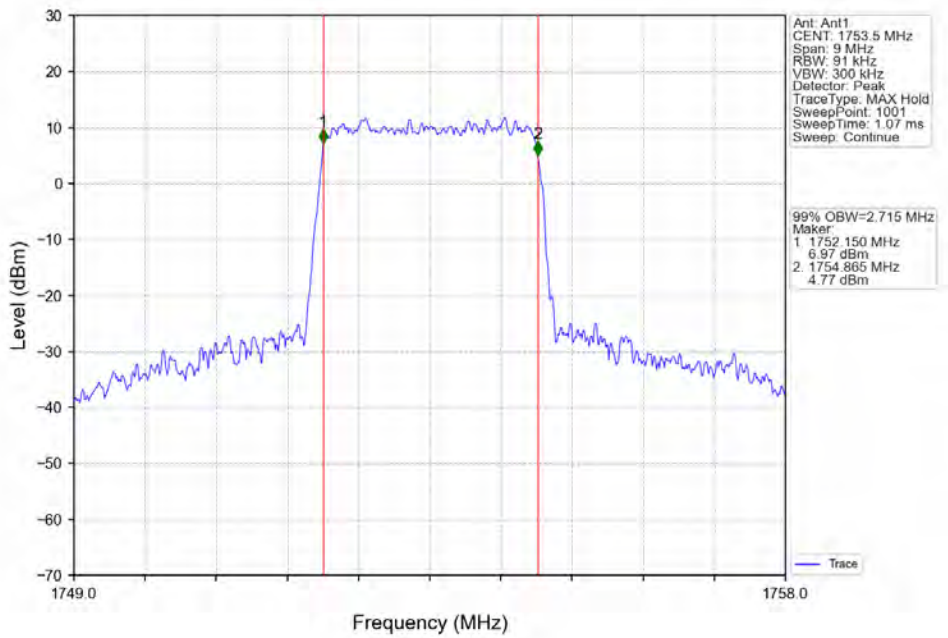
Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



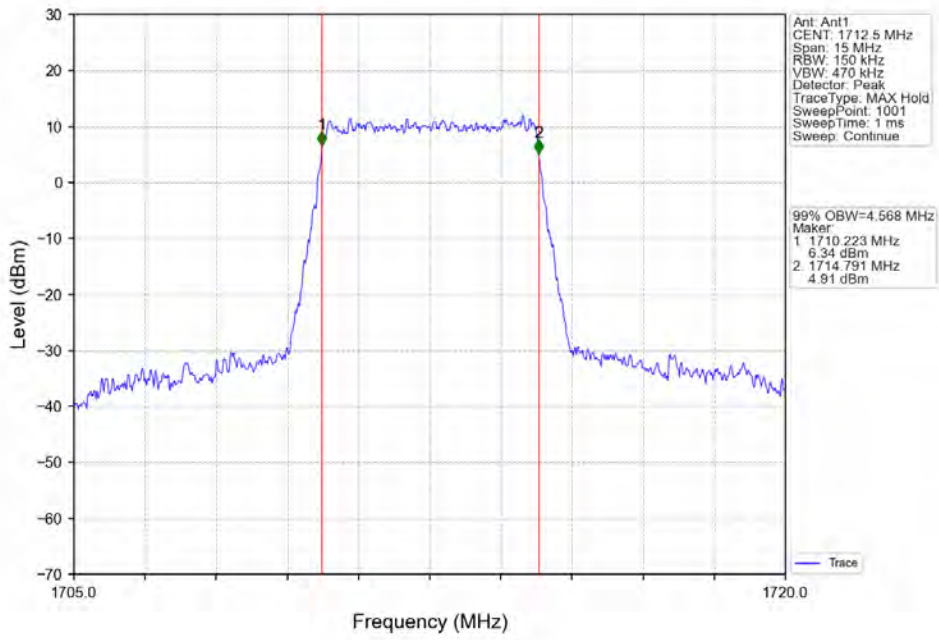
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



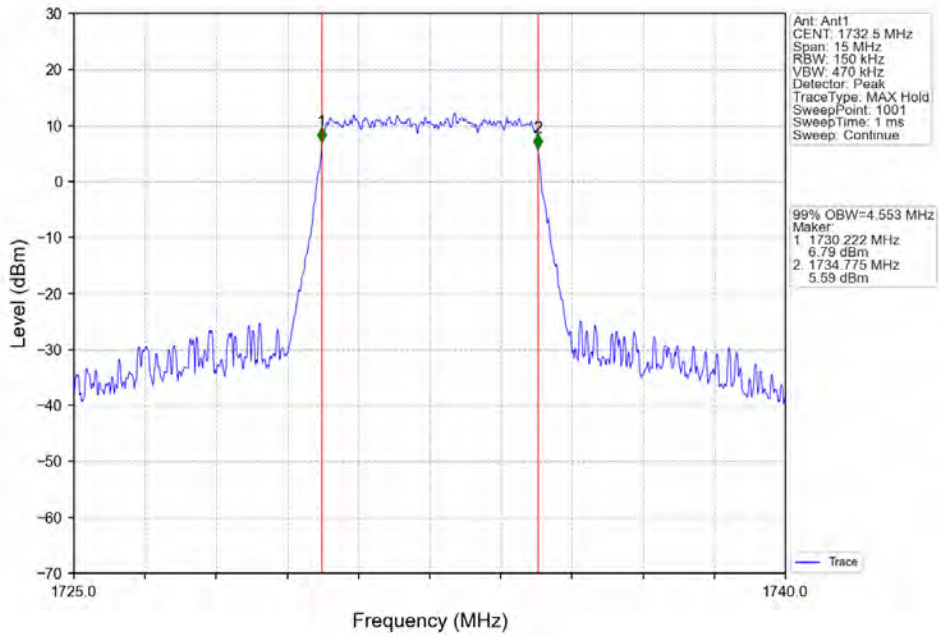
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



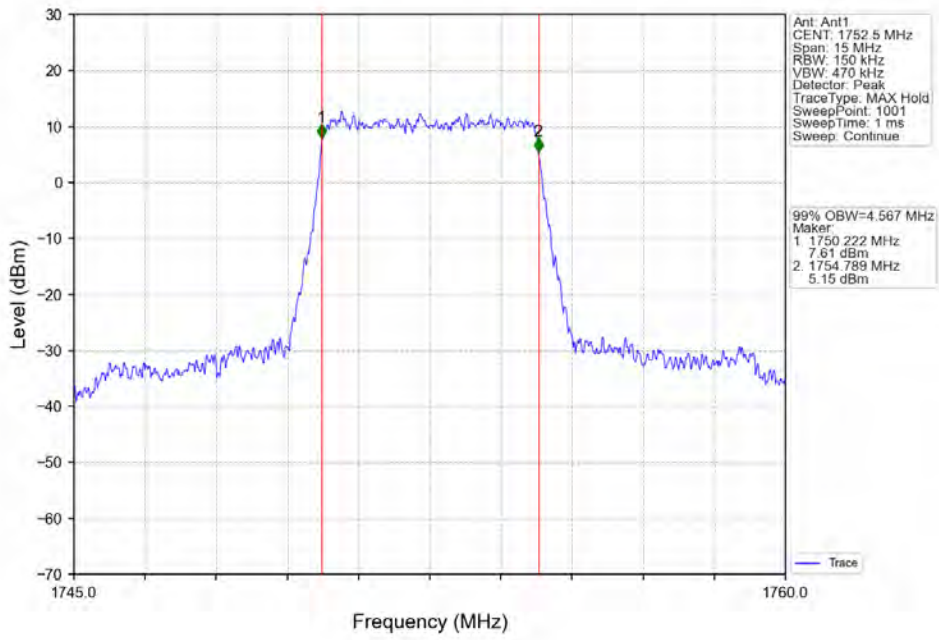
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



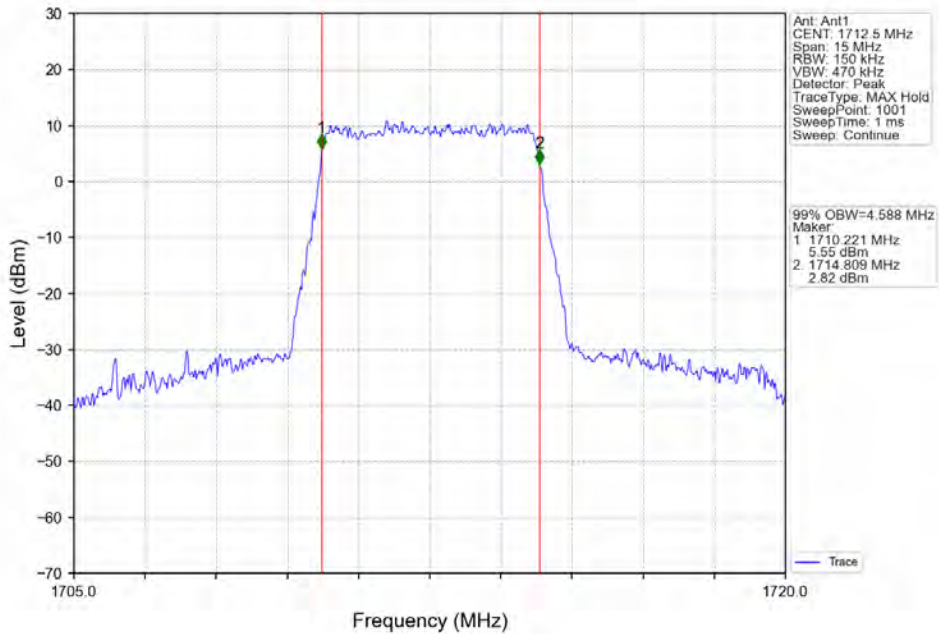
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Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV

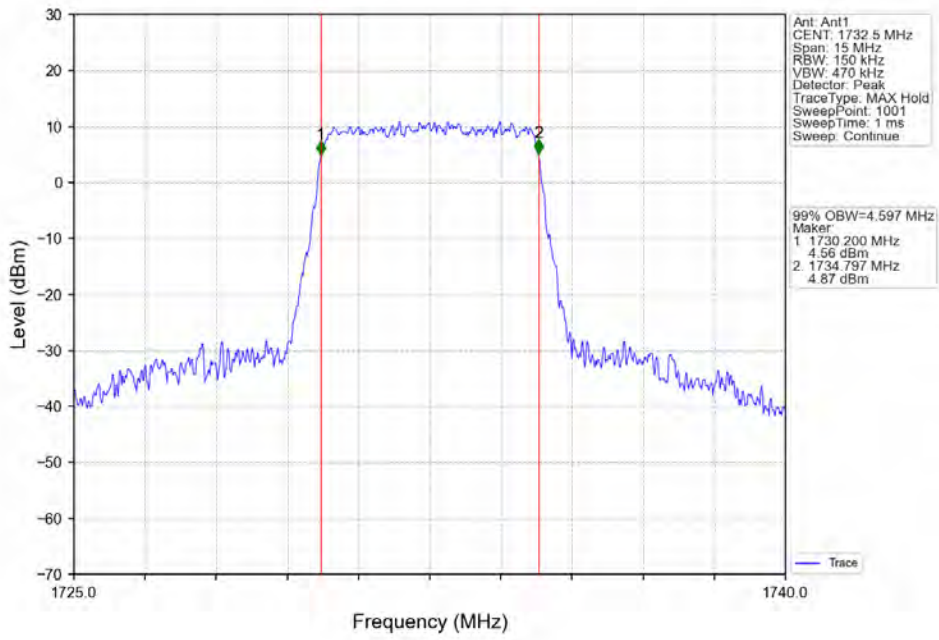


Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

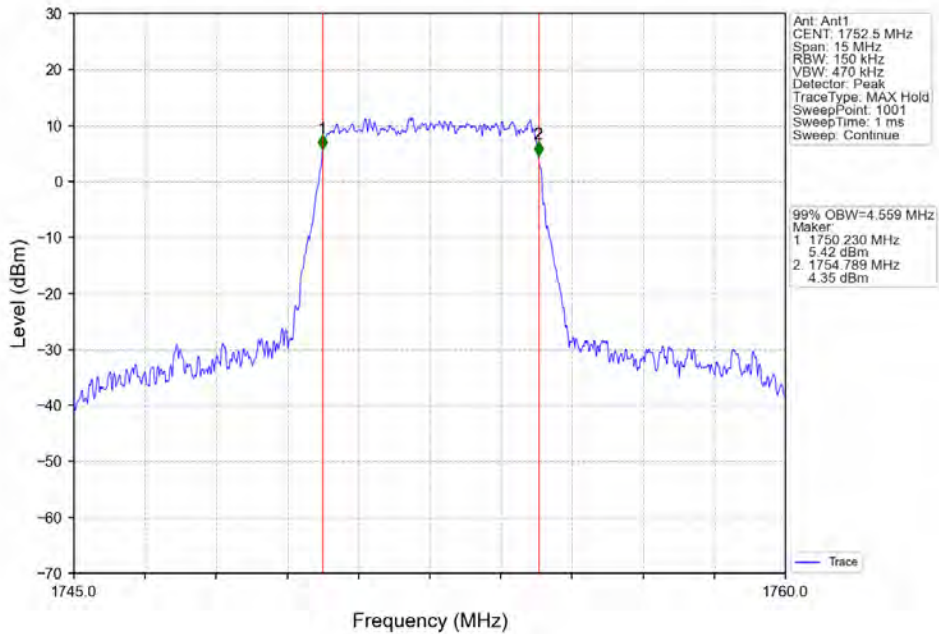




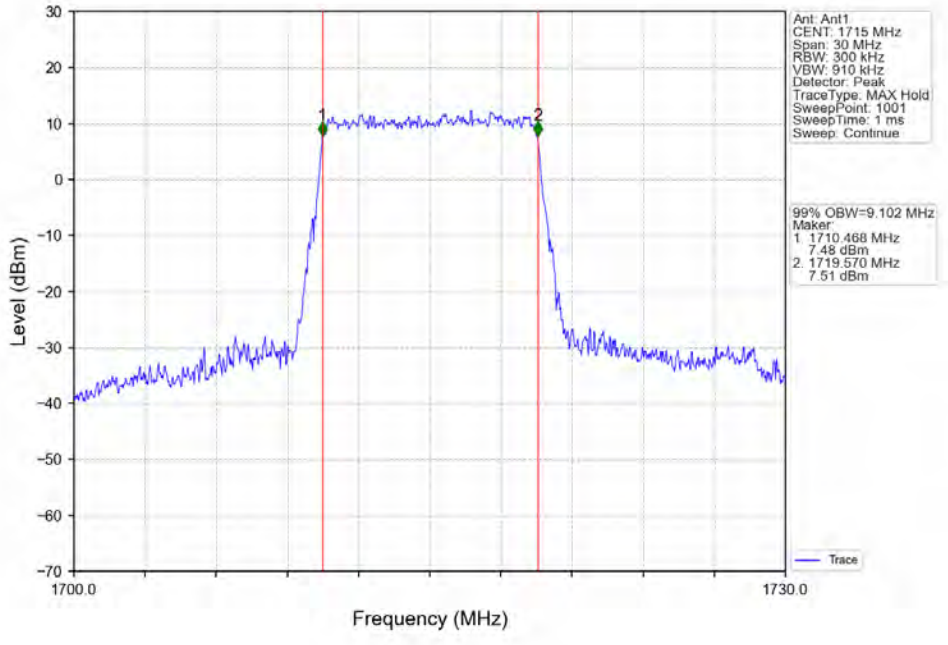
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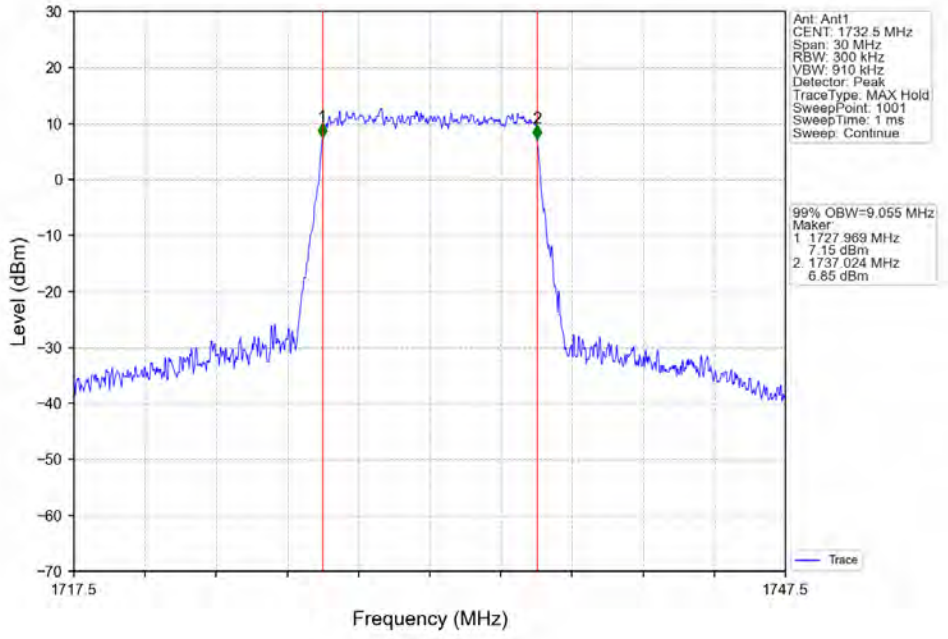
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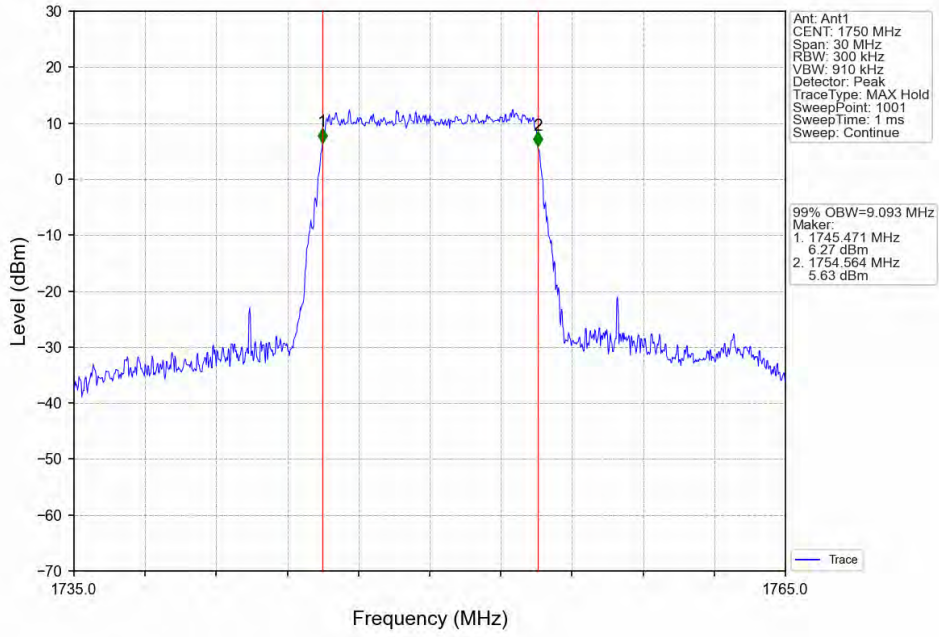
Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



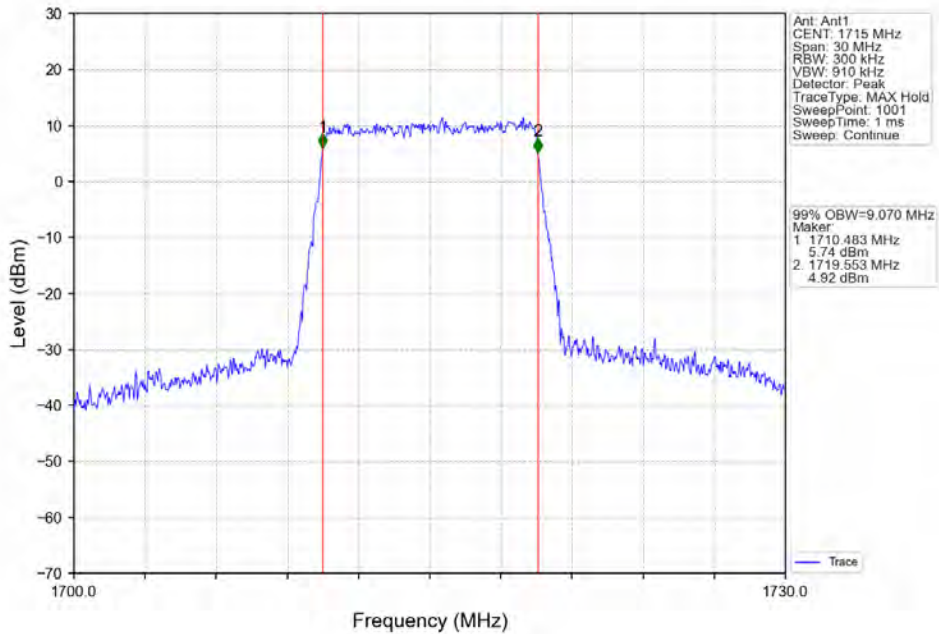
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



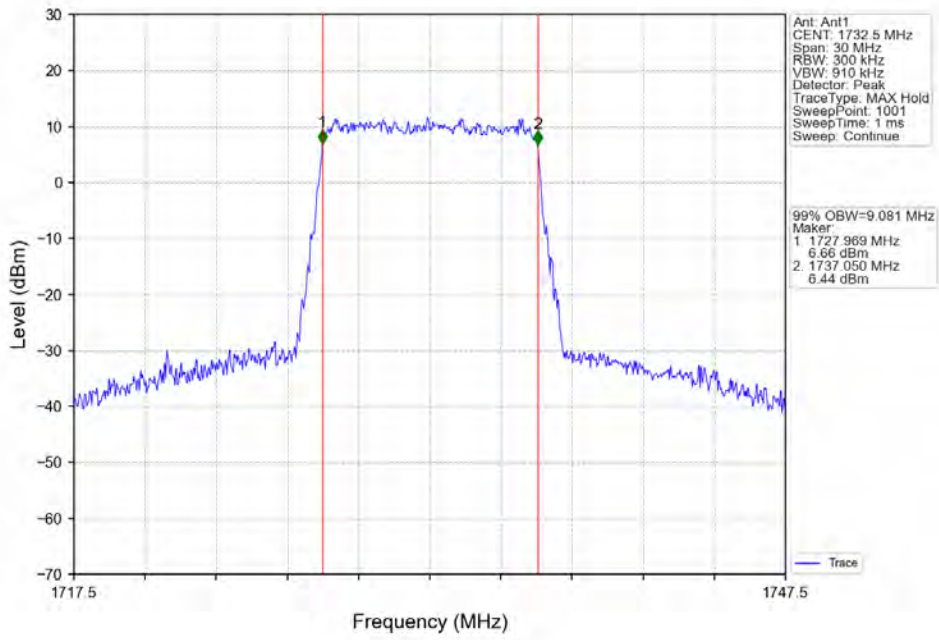
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



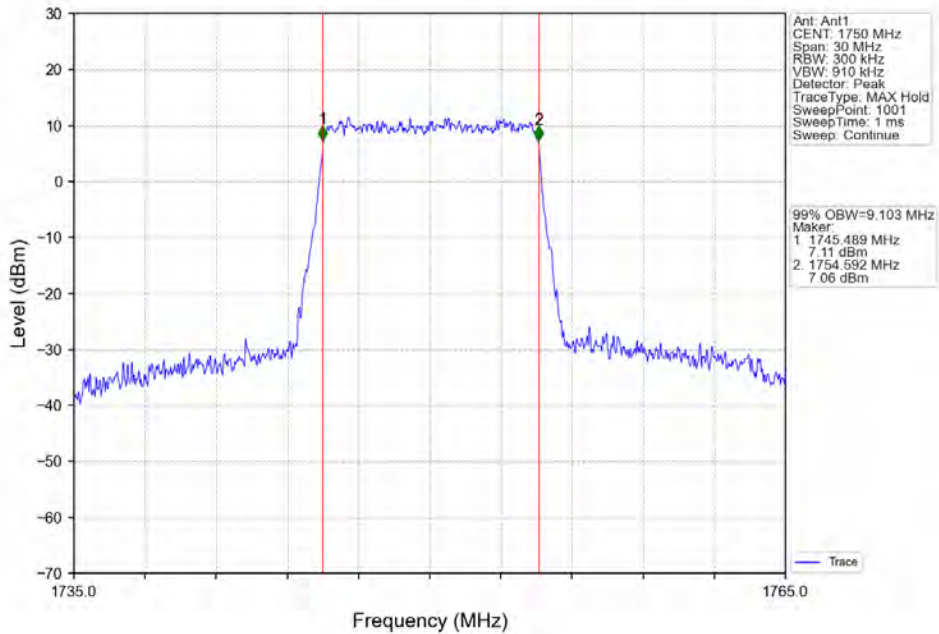
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



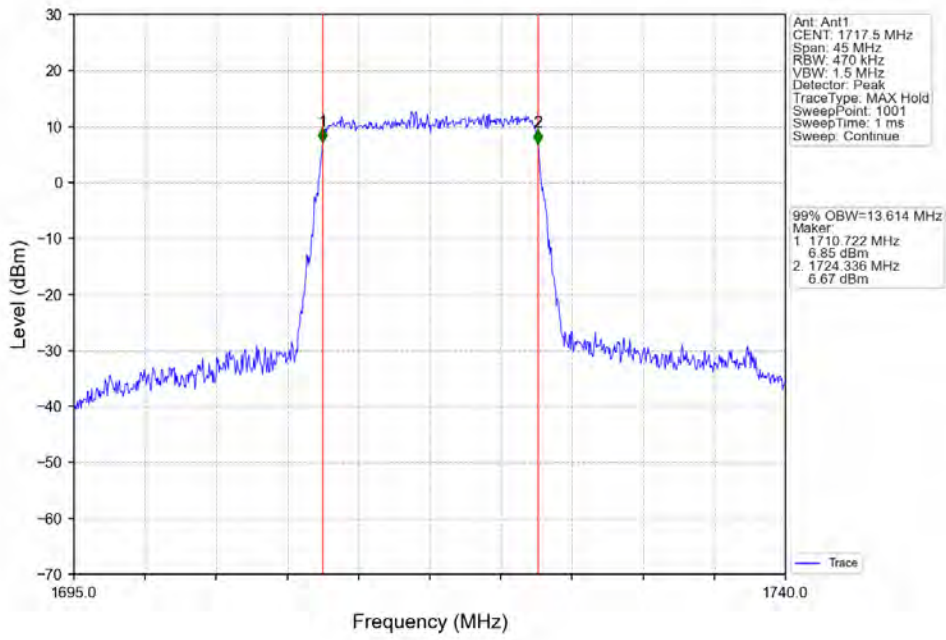
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



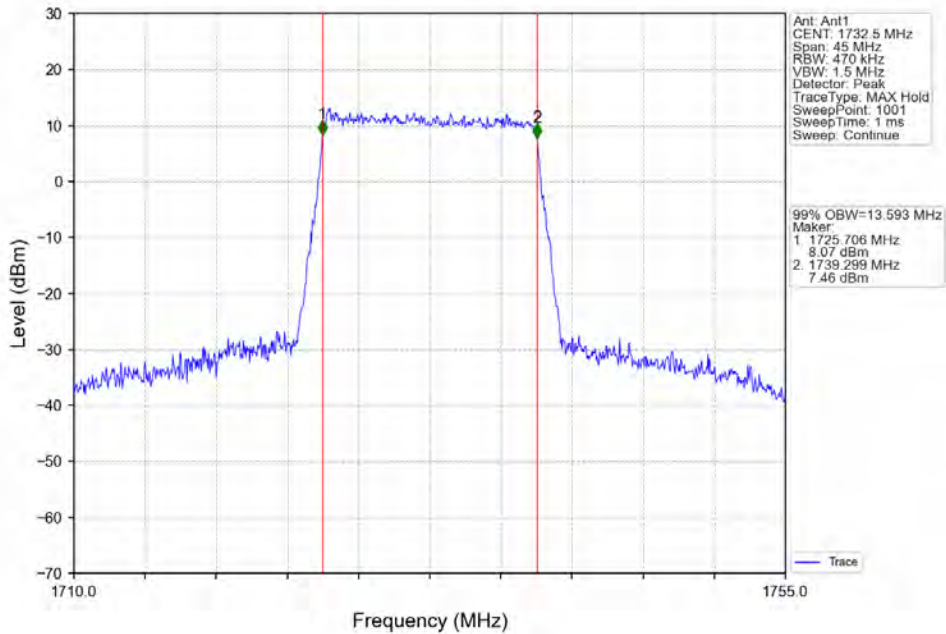
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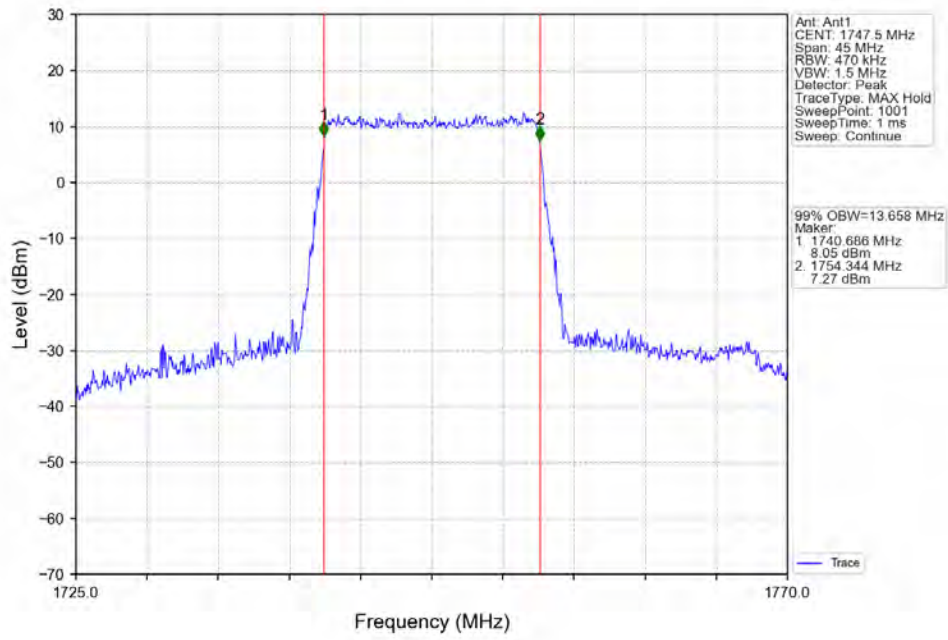
Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



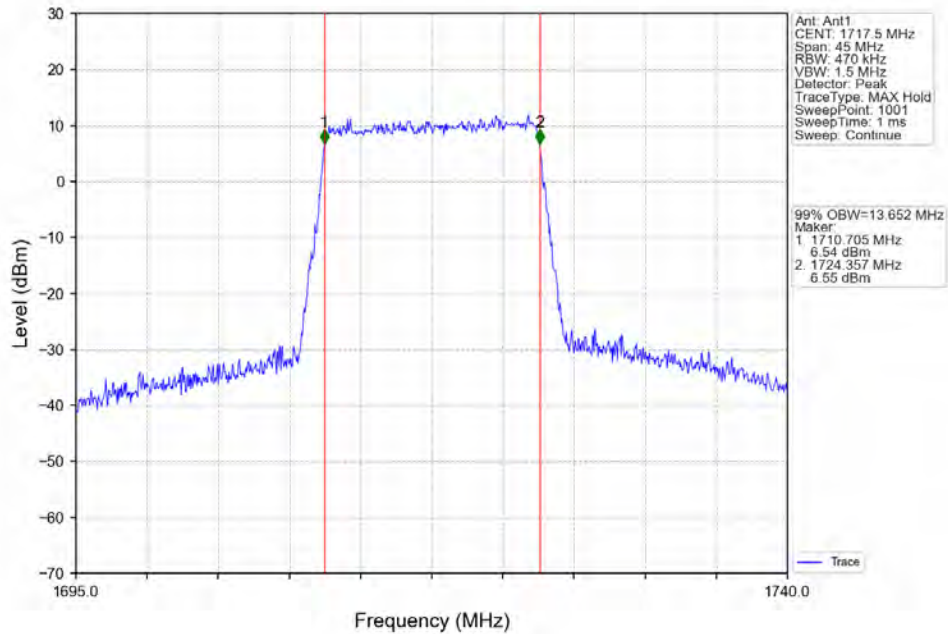
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



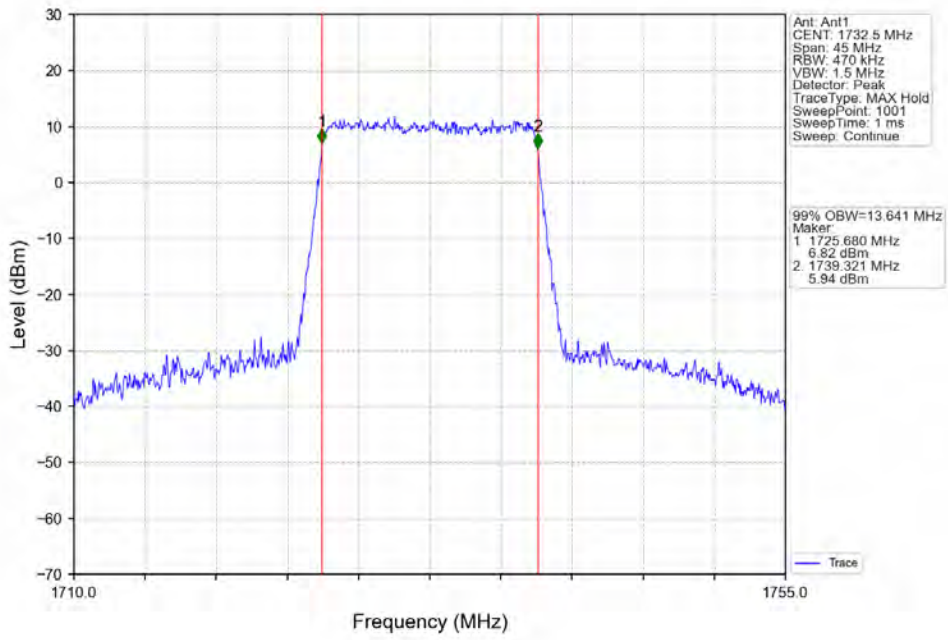
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



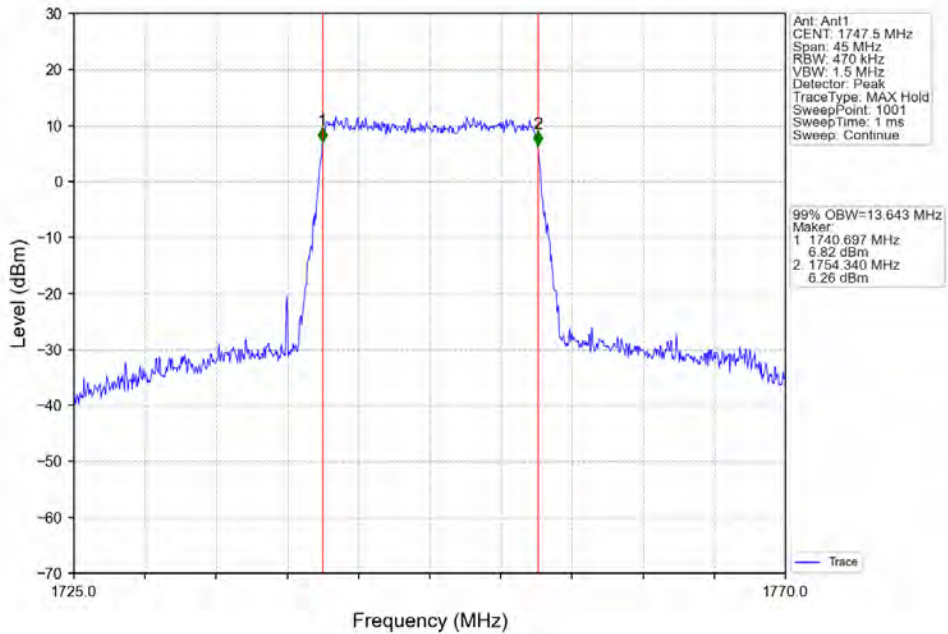
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



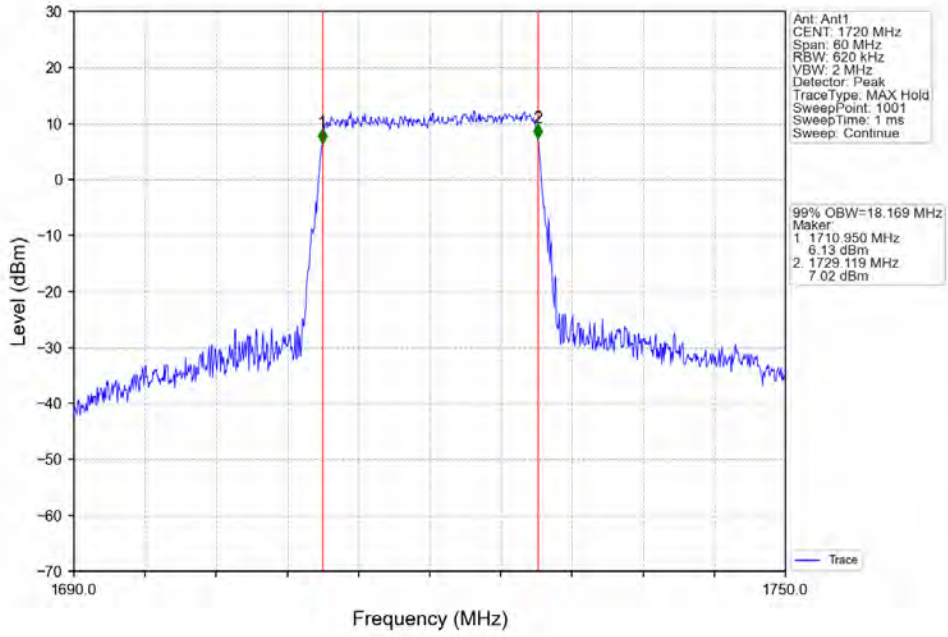
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



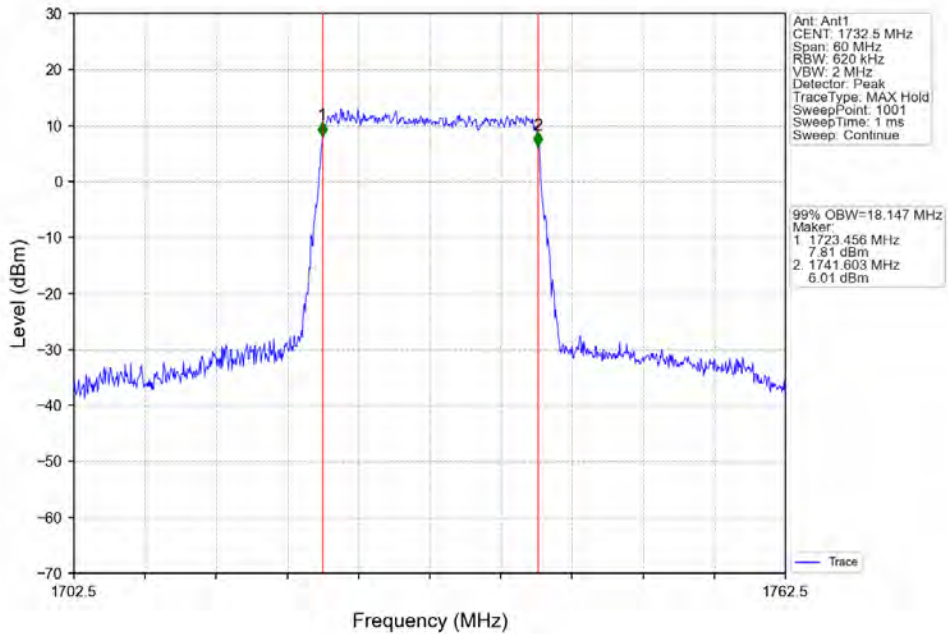
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



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

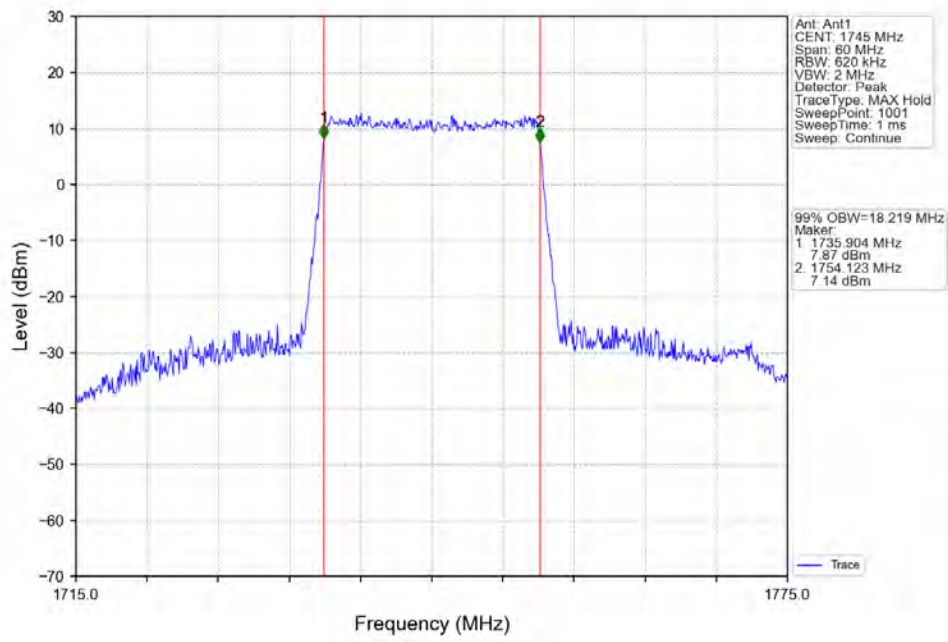


Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV

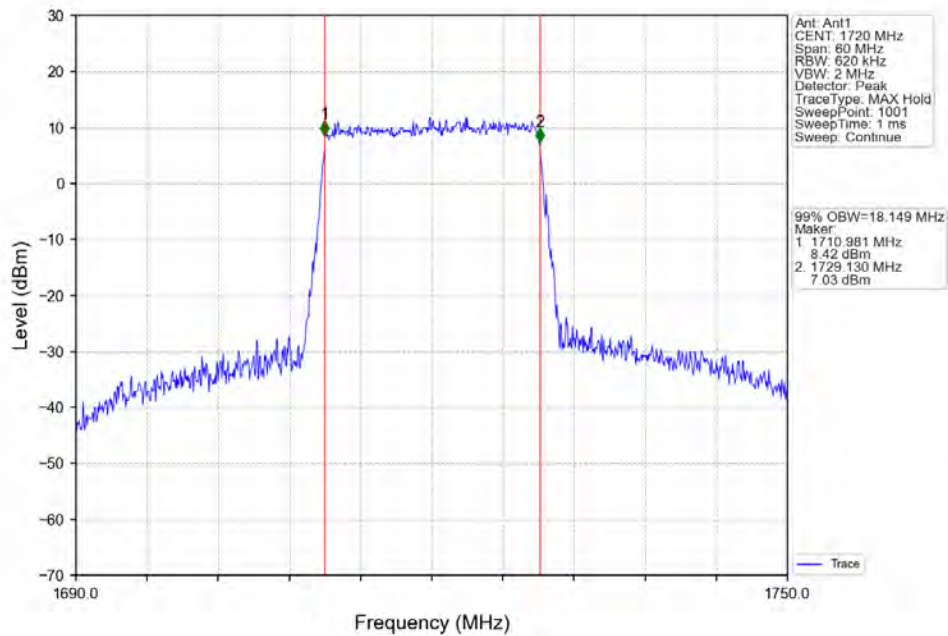




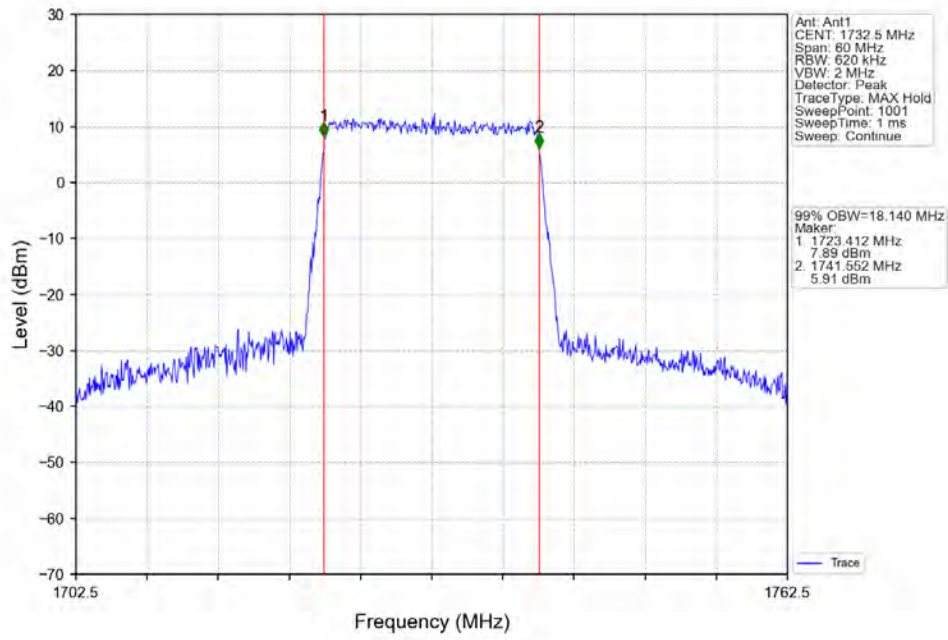
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



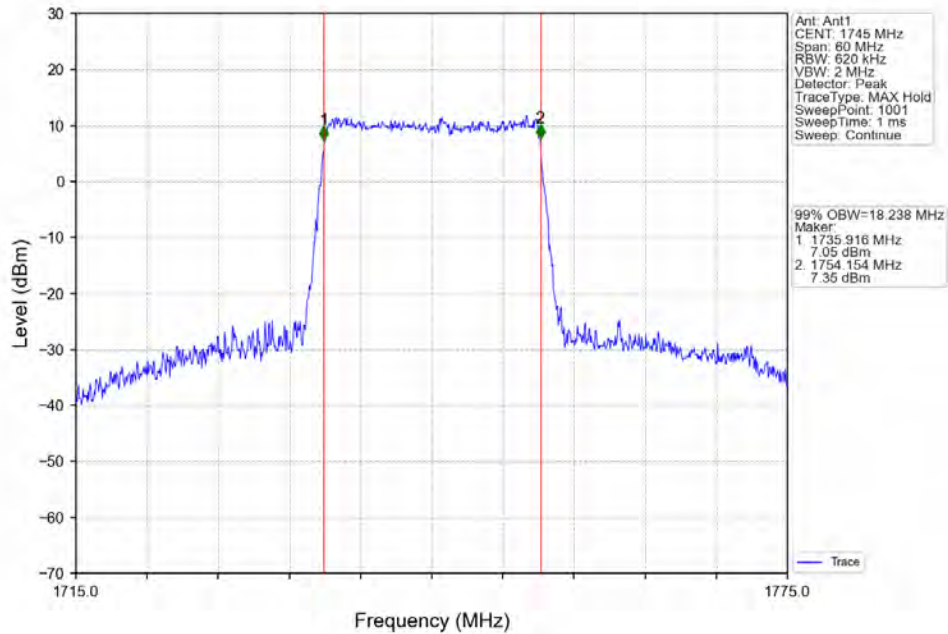
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



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



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

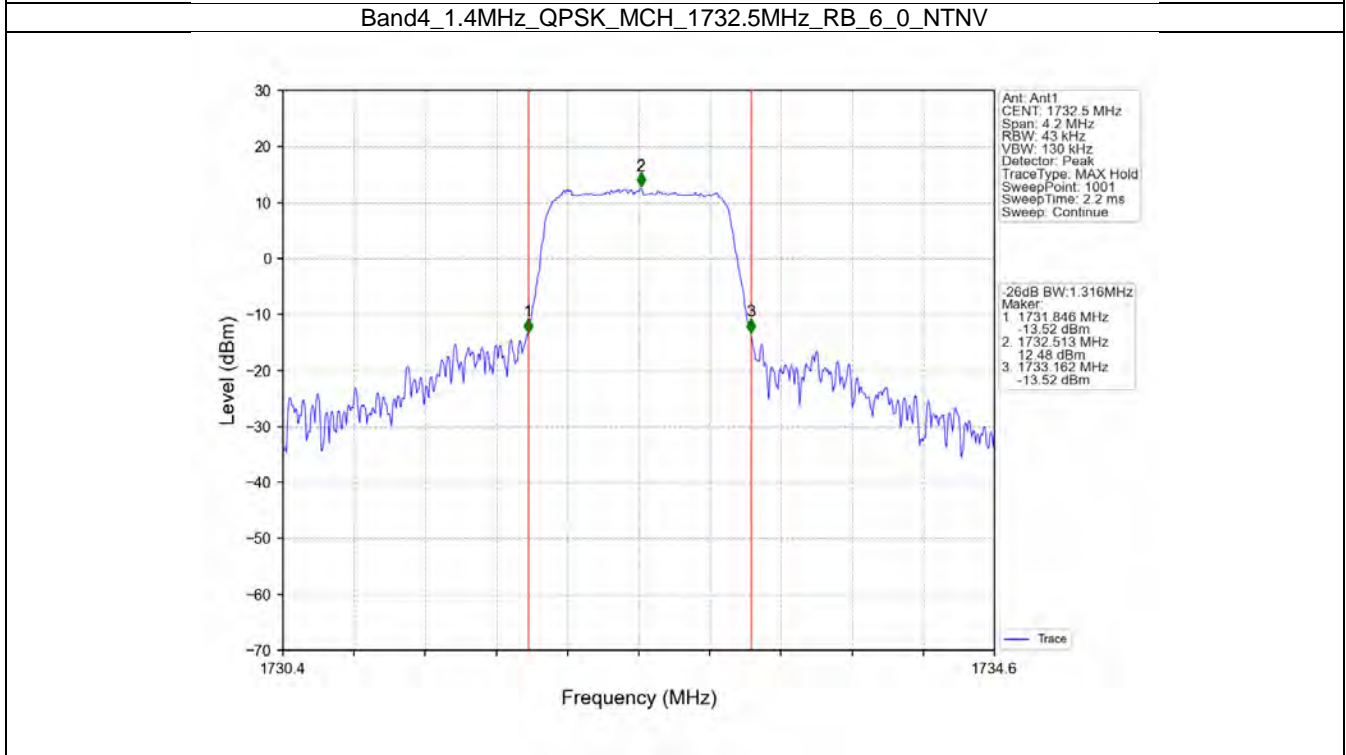
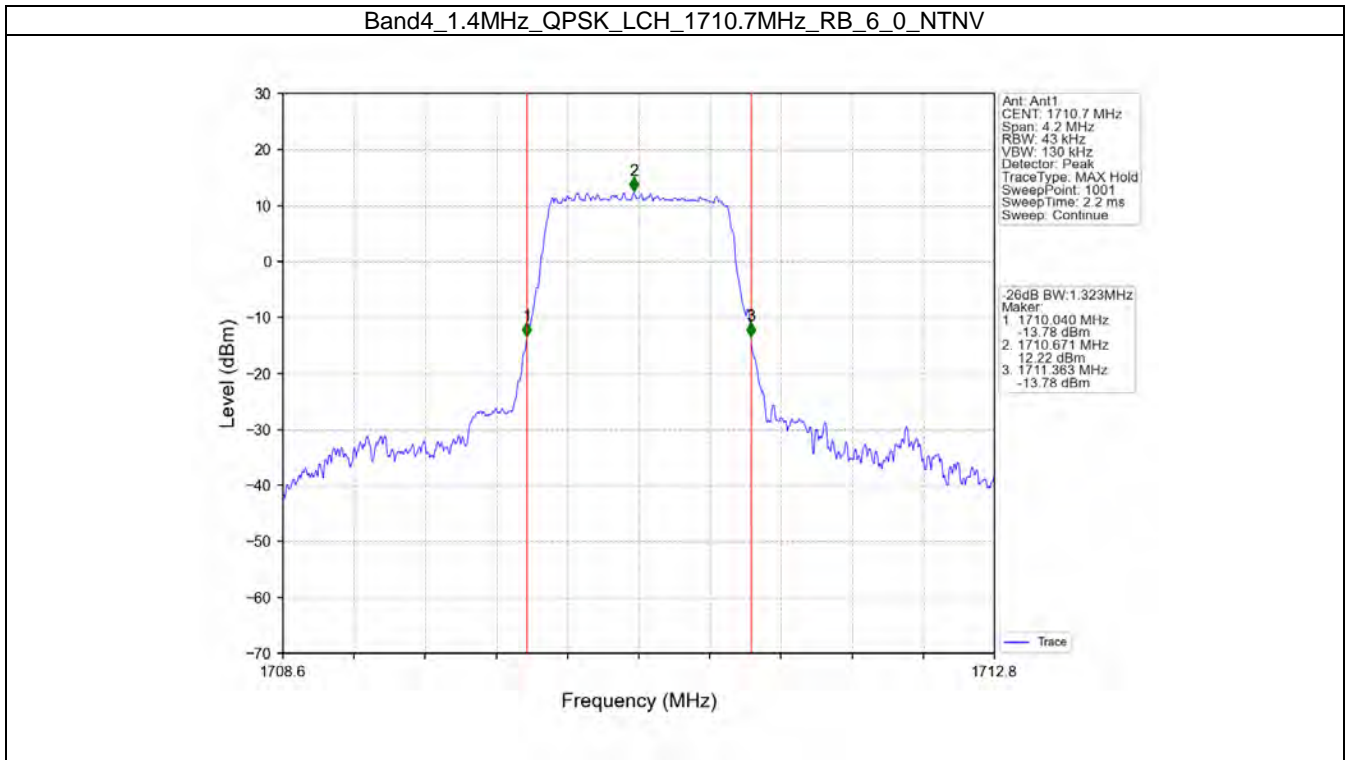


## 4.2 Band4\_XDB

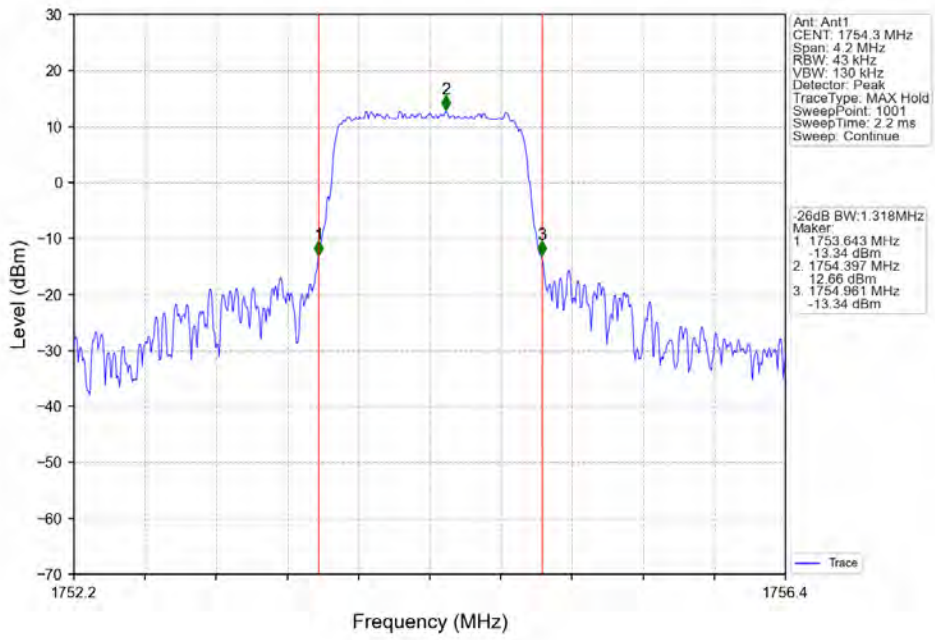
### 4.2.1 Test Result

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.323	/	Pass
		1732.5	6	0	1.316	/	Pass
		1754.3	6	0	1.318	/	Pass
	16QAM	1710.7	6	0	1.296	/	Pass
		1732.5	6	0	1.327	/	Pass
		1754.3	6	0	1.327	/	Pass
3	QPSK	1711.5	15	0	2.999	/	Pass
		1732.5	15	0	2.991	/	Pass
		1753.5	15	0	3.013	/	Pass
	16QAM	1711.5	15	0	2.987	/	Pass
		1732.5	15	0	2.984	/	Pass
		1753.5	15	0	2.980	/	Pass
5	QPSK	1712.5	25	0	5.291	/	Pass
		1732.5	25	0	5.243	/	Pass
		1752.5	25	0	5.239	/	Pass
	16QAM	1712.5	25	0	5.274	/	Pass
		1732.5	25	0	5.329	/	Pass
		1752.5	25	0	5.279	/	Pass
10	QPSK	1715	50	0	10.358	/	Pass
		1732.5	50	0	10.296	/	Pass
		1750	50	0	10.381	/	Pass
	16QAM	1715	50	0	10.291	/	Pass
		1732.5	50	0	10.240	/	Pass
		1750	50	0	10.279	/	Pass
15	QPSK	1717.5	75	0	15.510	/	Pass
		1732.5	75	0	15.337	/	Pass
		1747.5	75	0	15.489	/	Pass
	16QAM	1717.5	75	0	15.275	/	Pass
		1732.5	75	0	15.376	/	Pass
		1747.5	75	0	15.442	/	Pass
20	QPSK	1720	100	0	20.418	/	Pass
		1732.5	100	0	20.179	/	Pass
		1745	100	0	20.254	/	Pass
	16QAM	1720	100	0	20.260	/	Pass
		1732.5	100	0	20.222	/	Pass
		1745	100	0	20.126	/	Pass

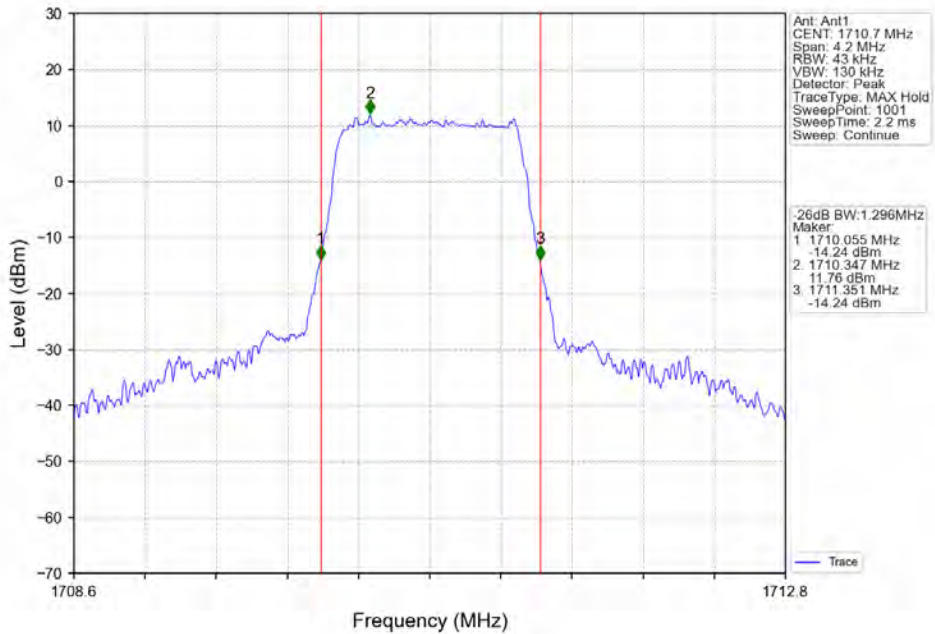
### 4.2.2 Test Graph



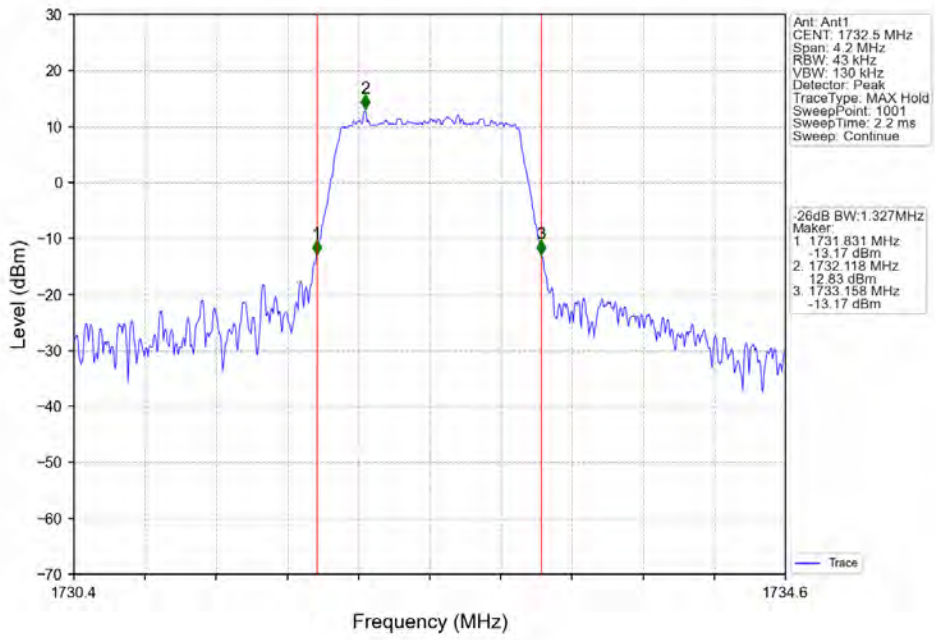
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



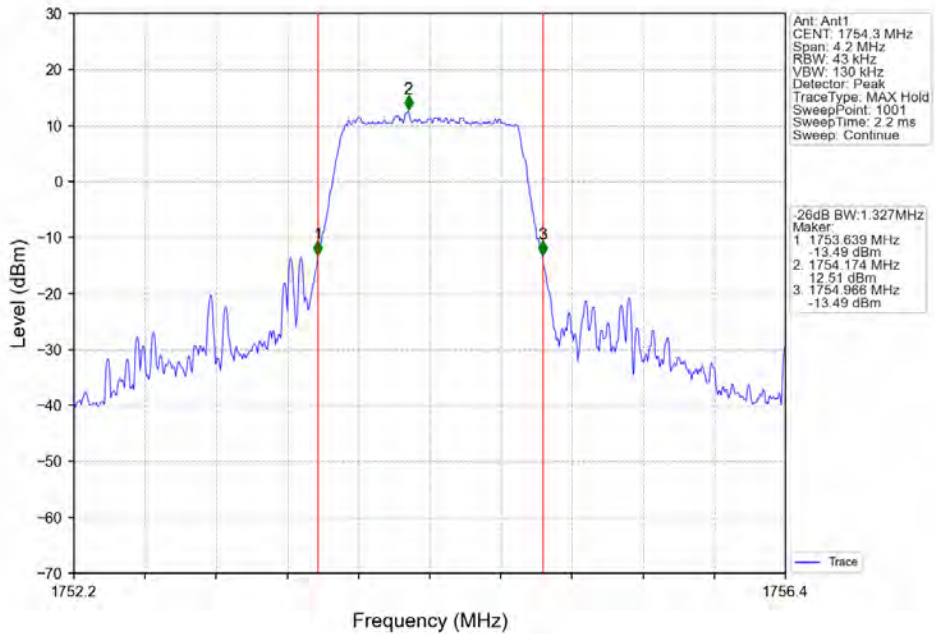
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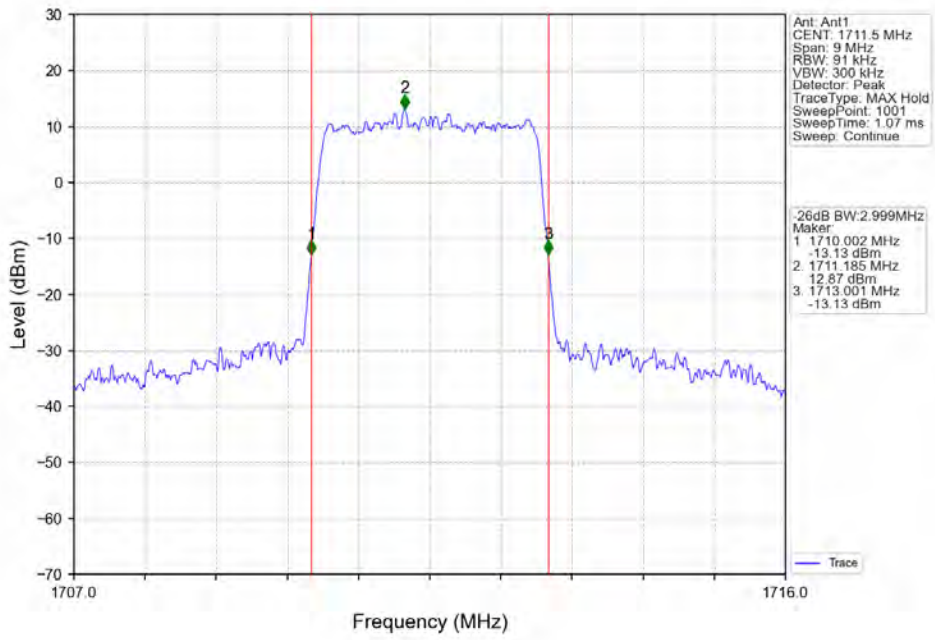
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



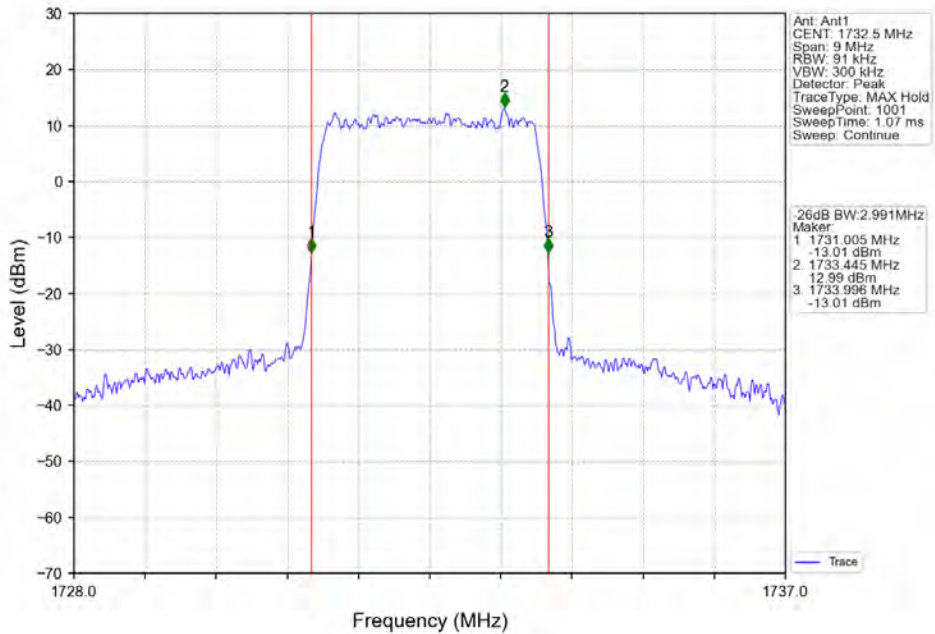
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



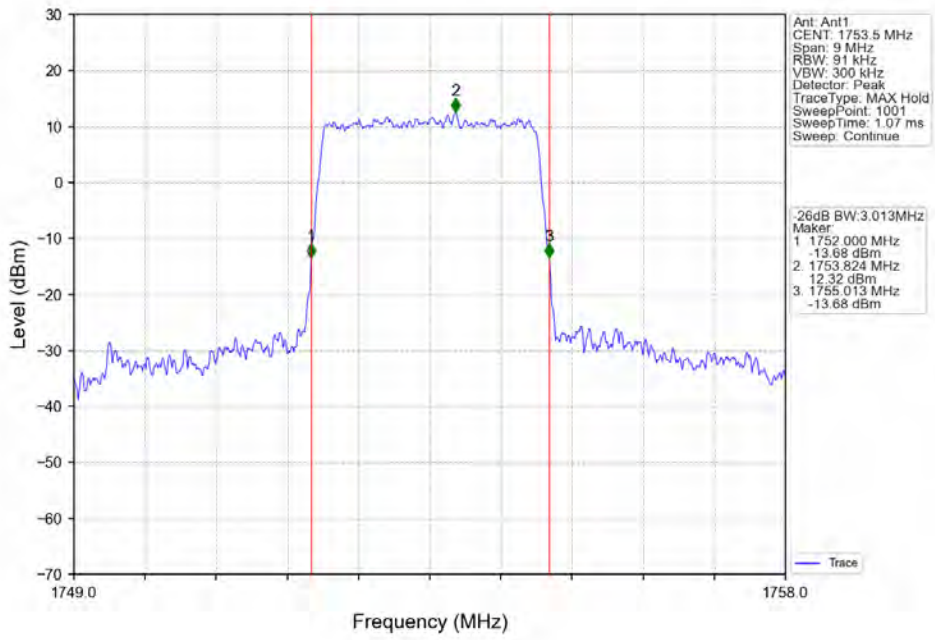
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



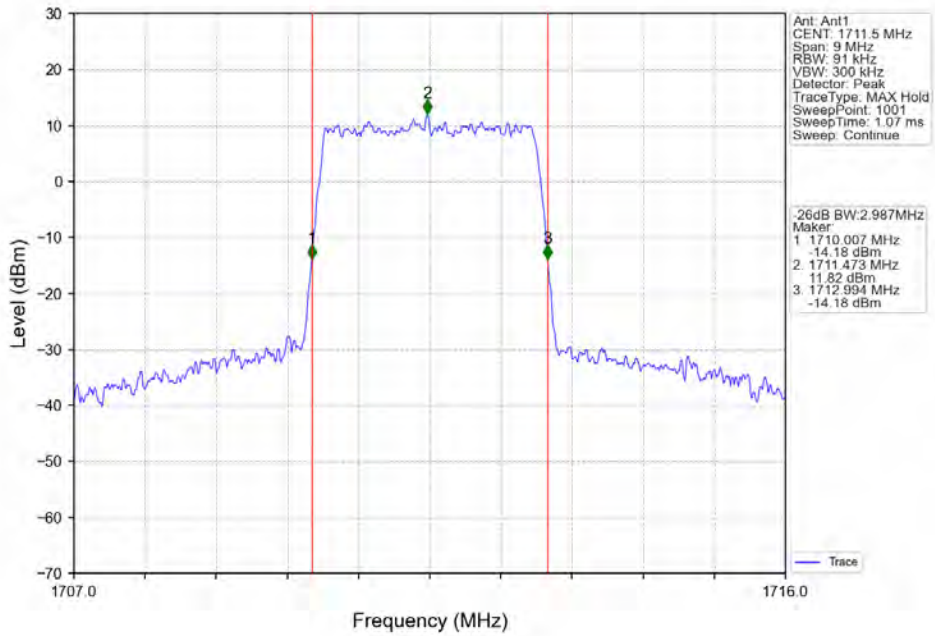
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



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

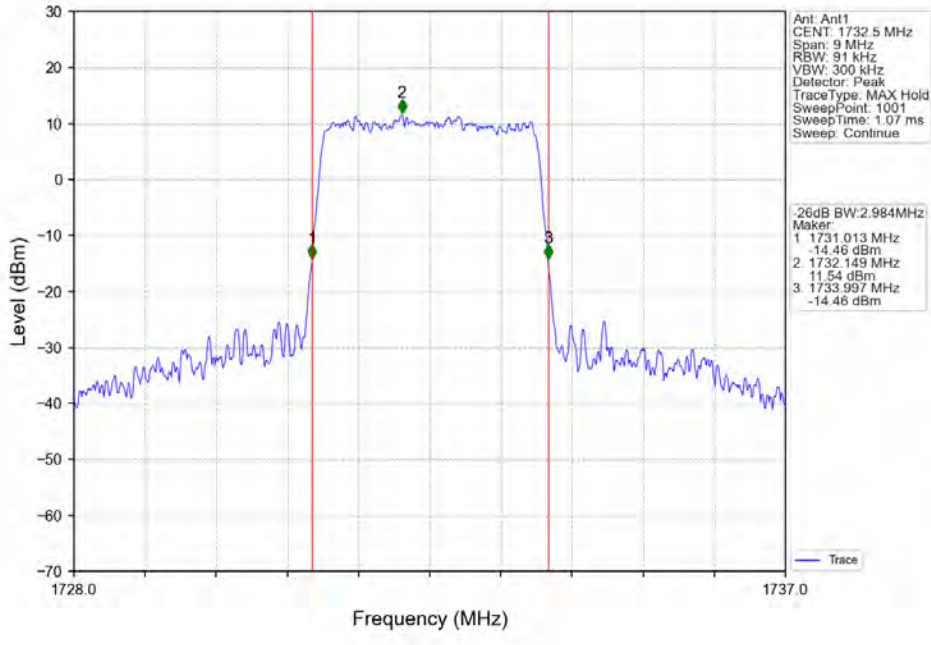


Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV

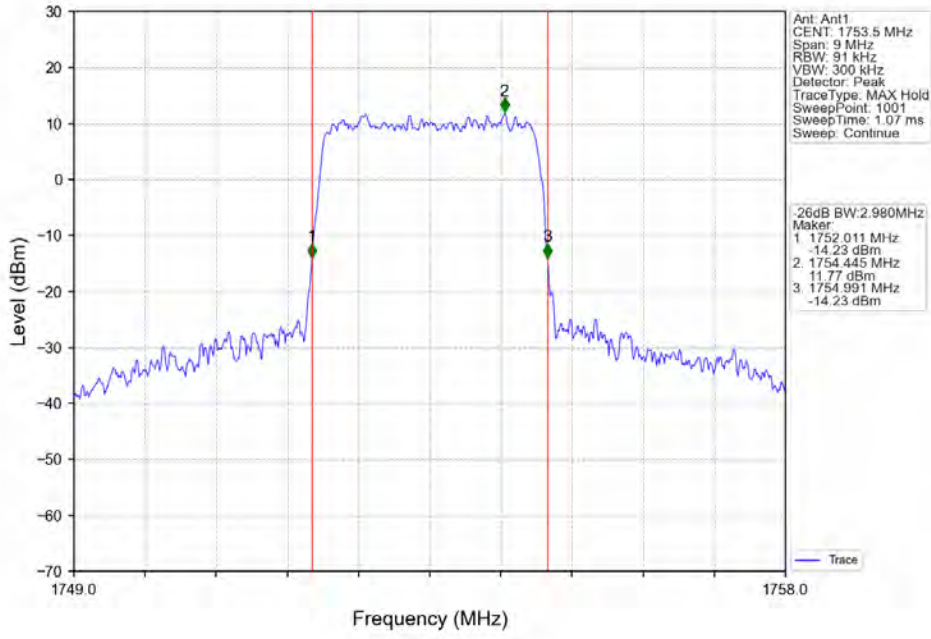




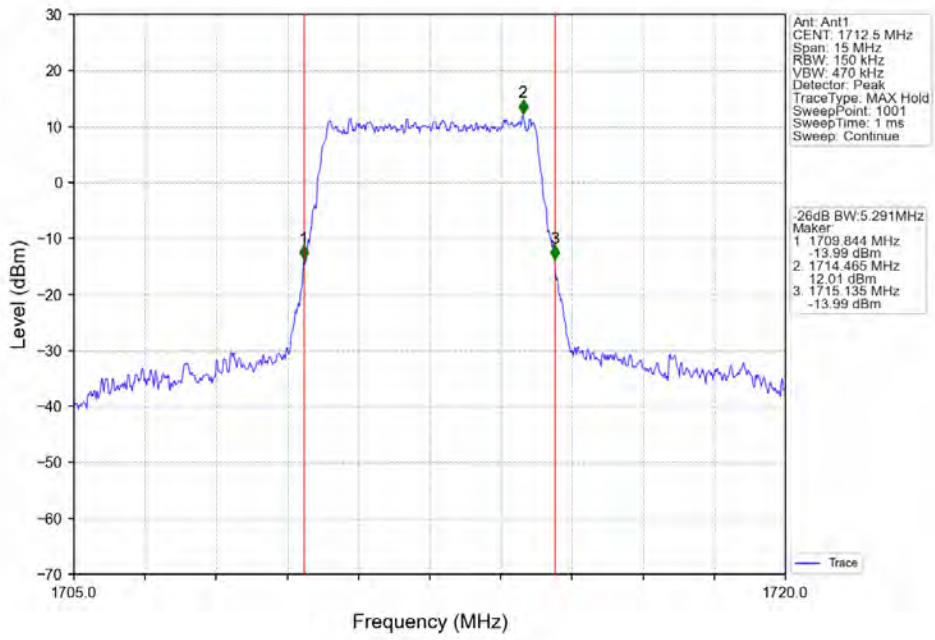
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



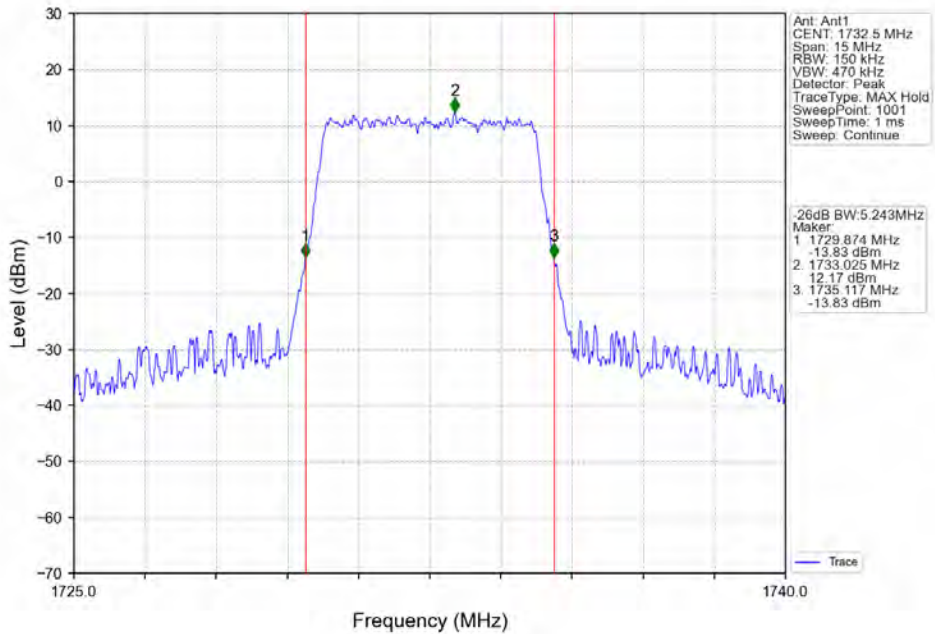
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



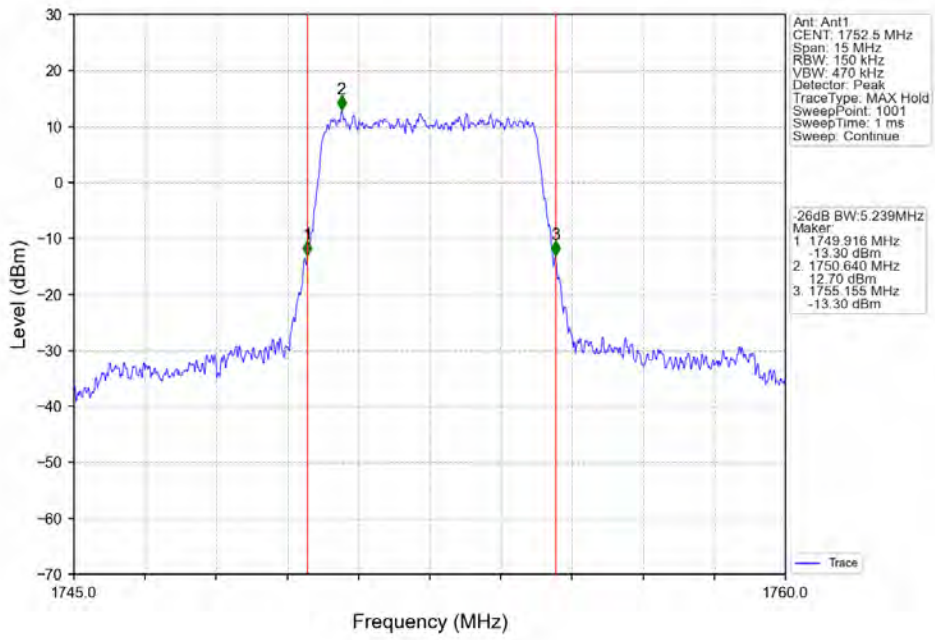
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



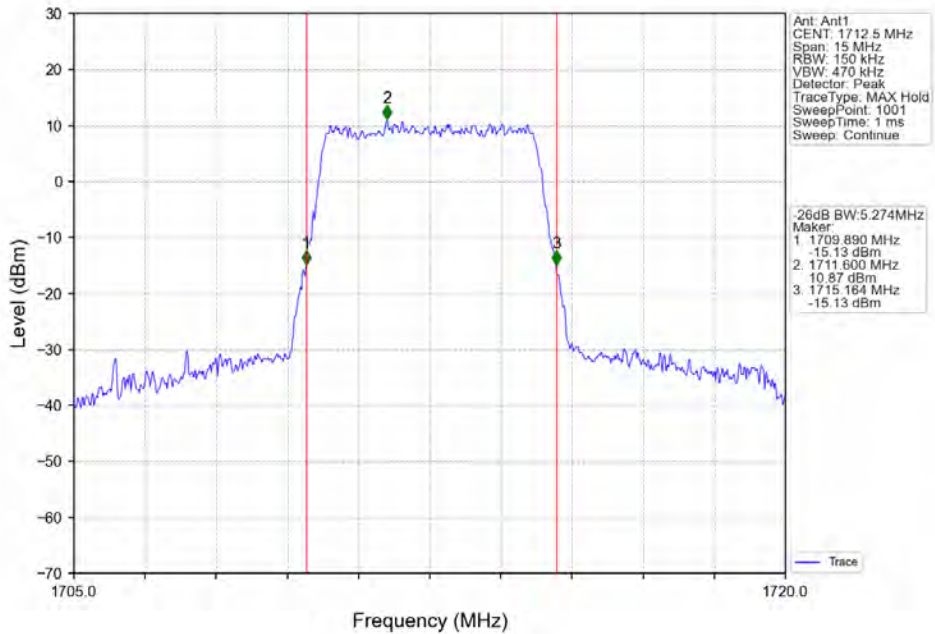
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



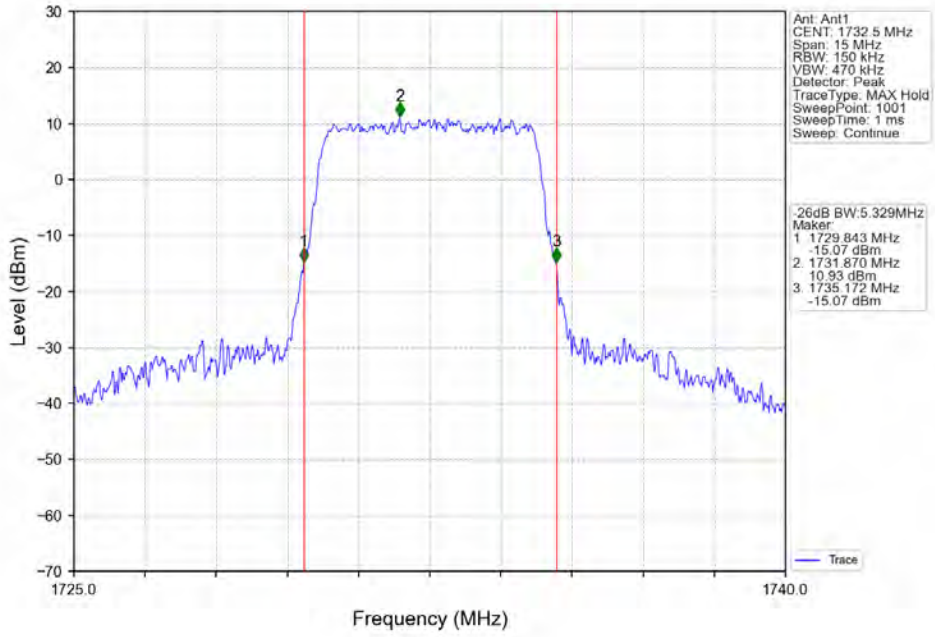
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



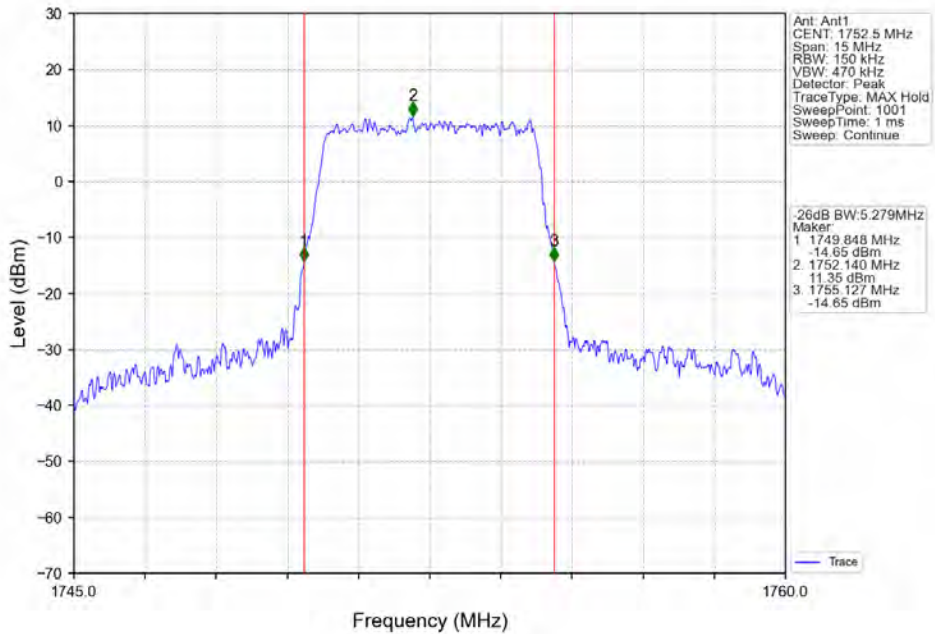
Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



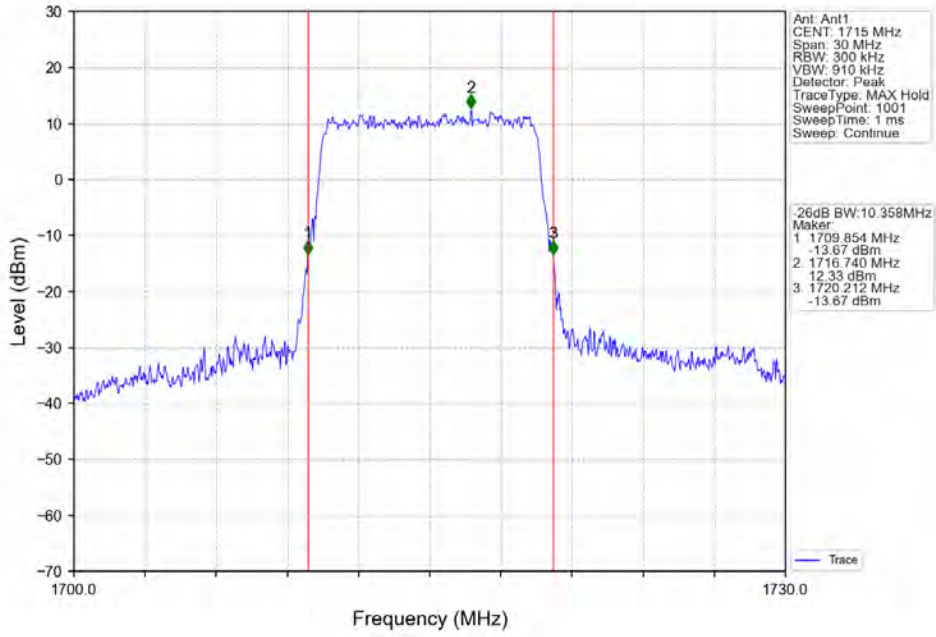
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



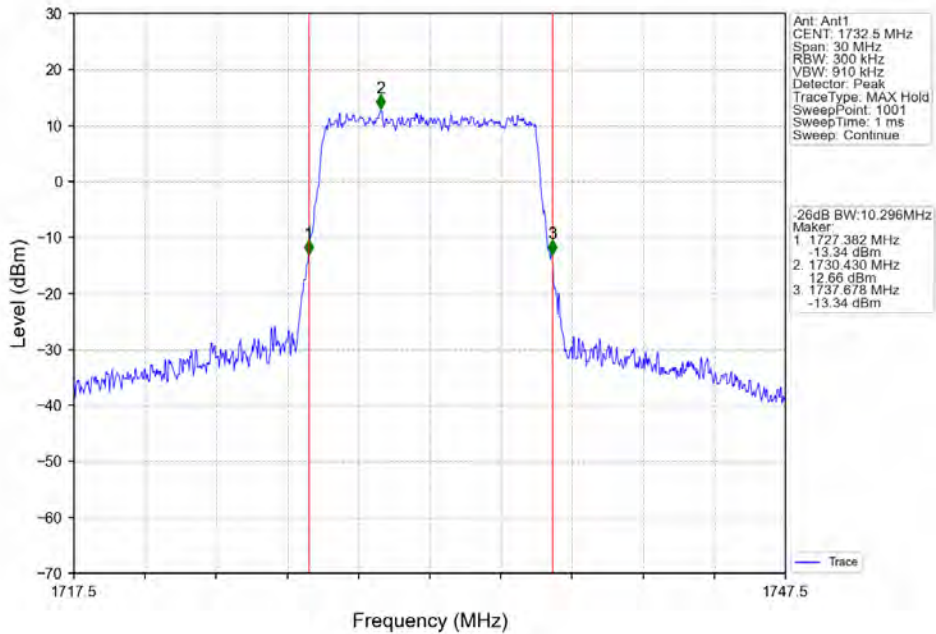
Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



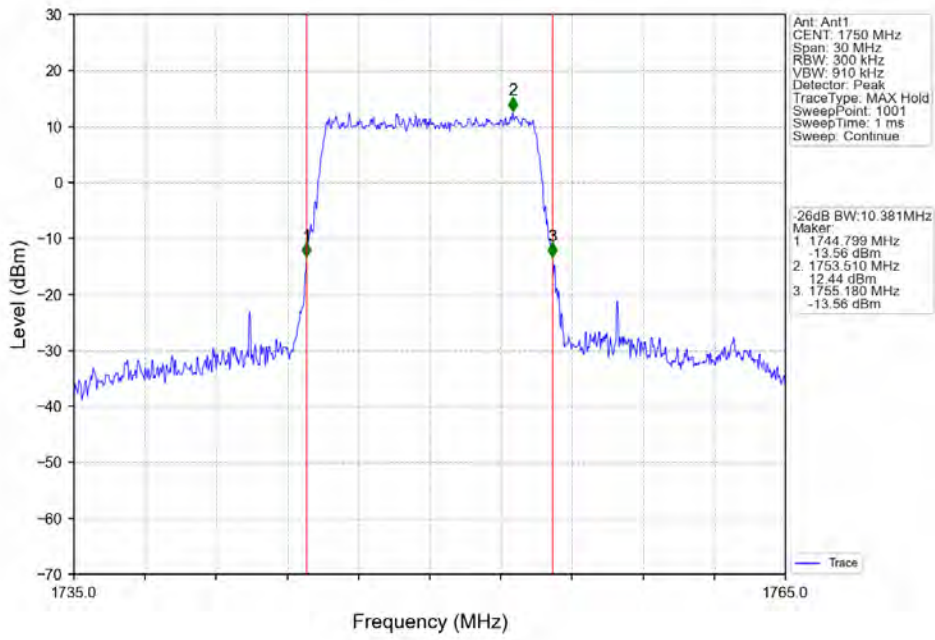
Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV



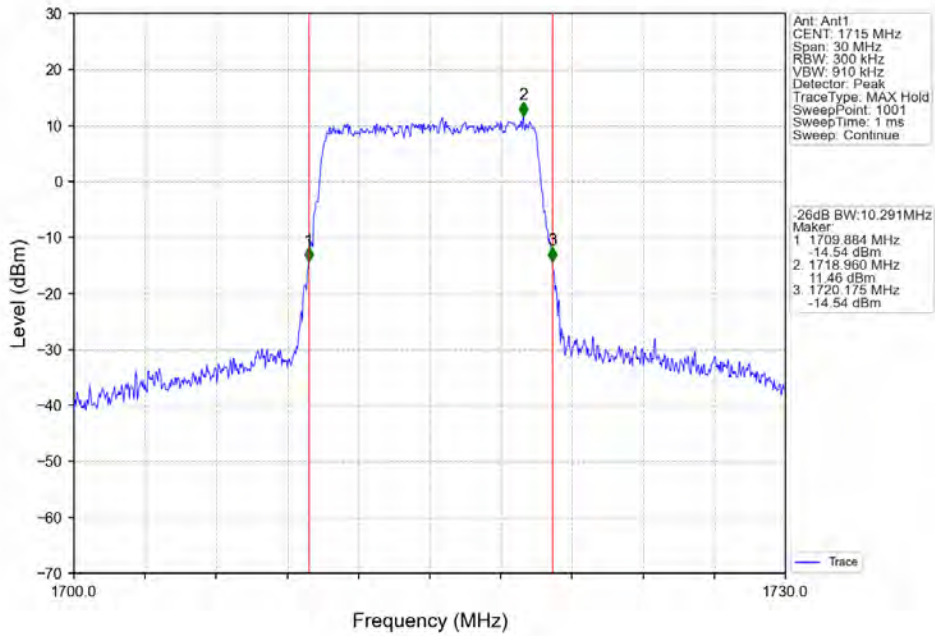
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



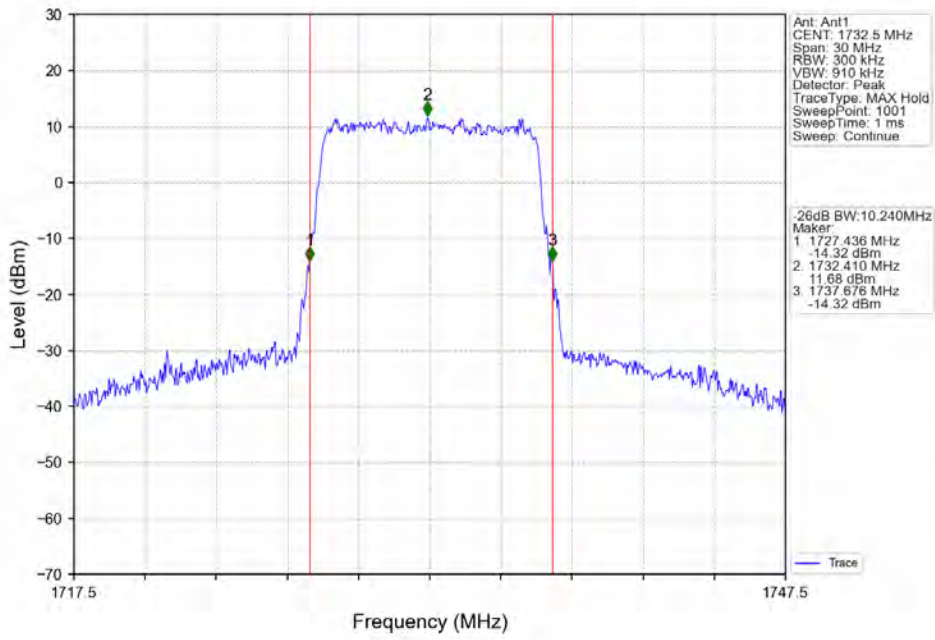
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



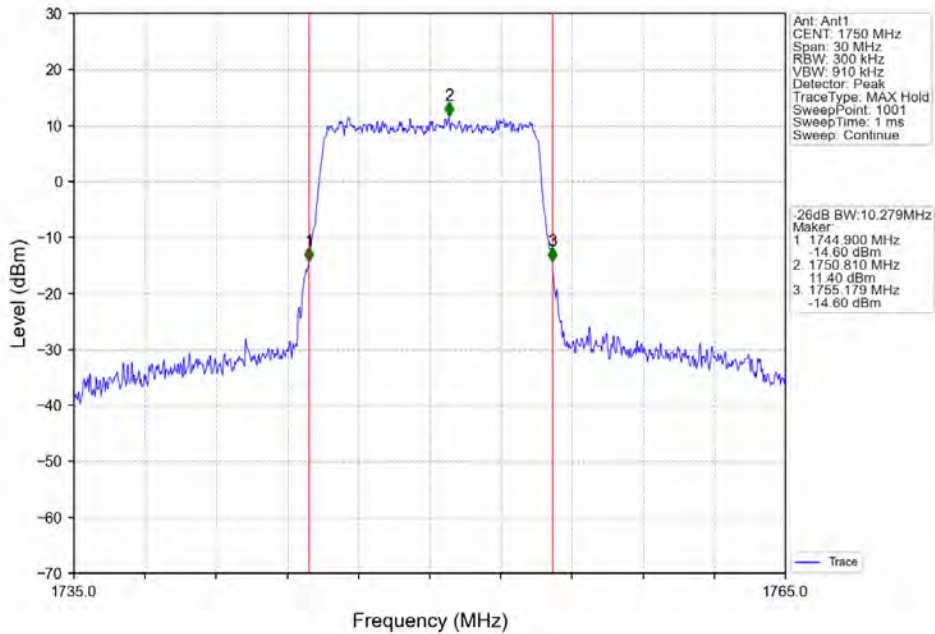
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



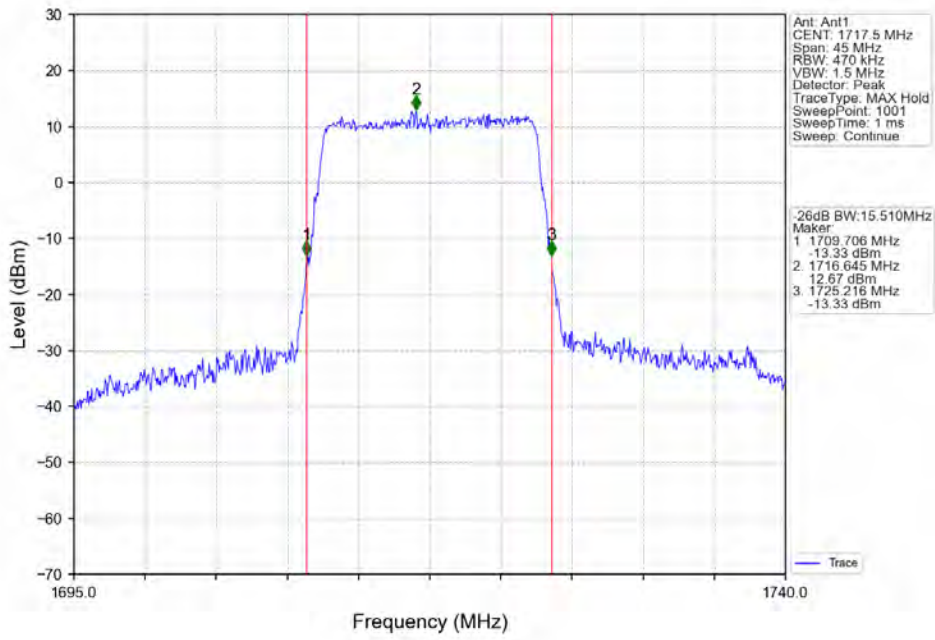
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



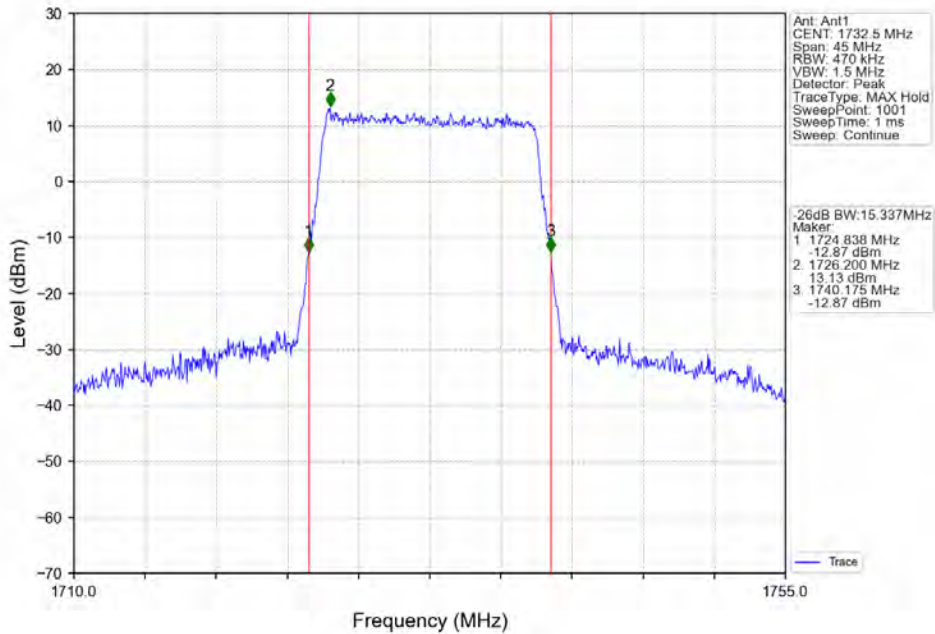
Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



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

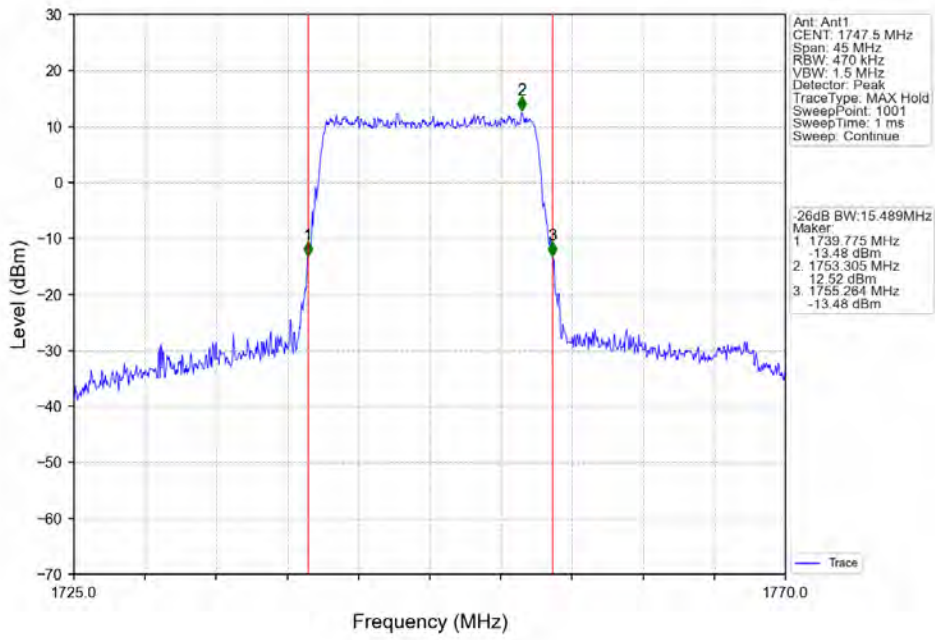


Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV

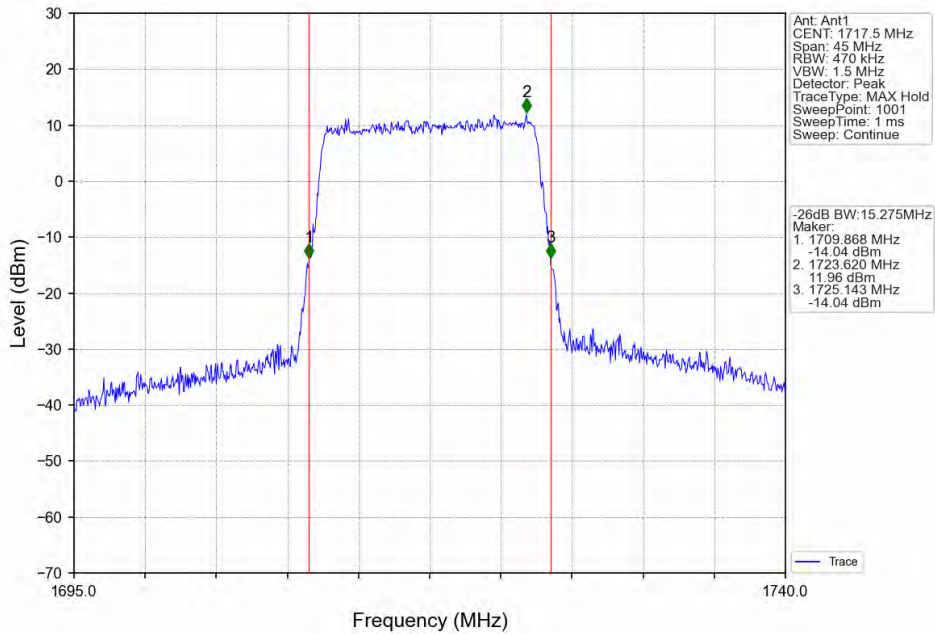




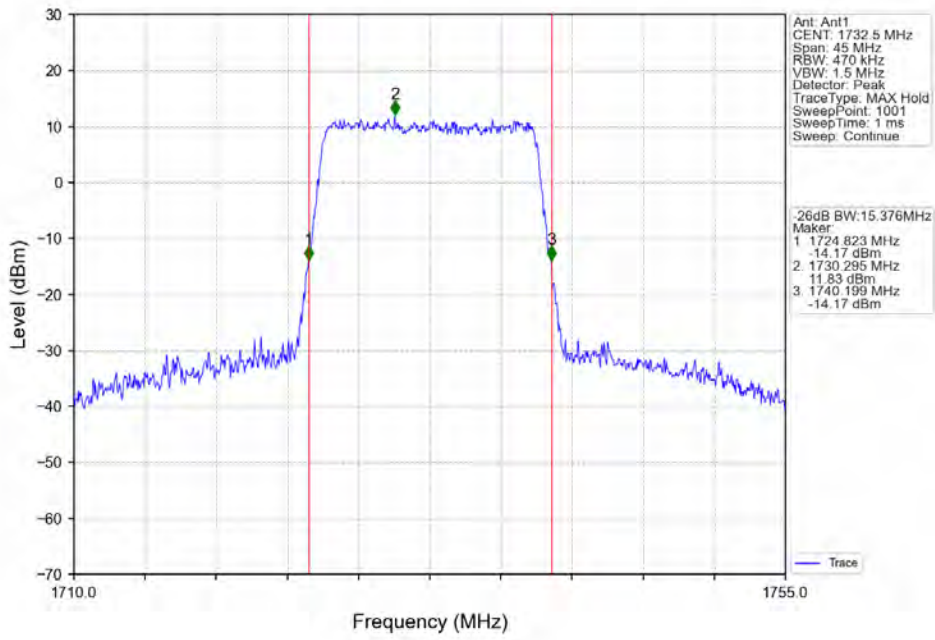
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



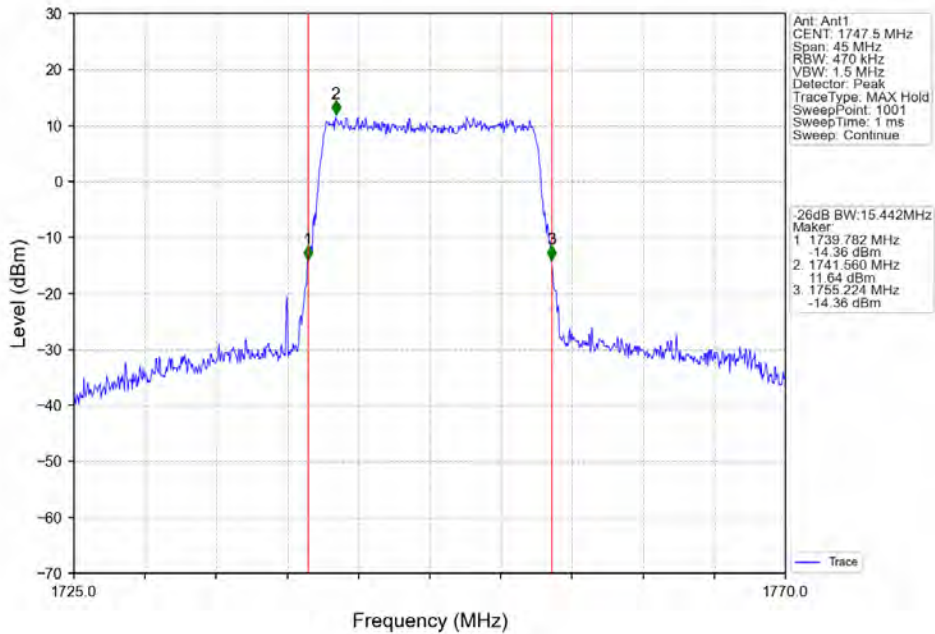
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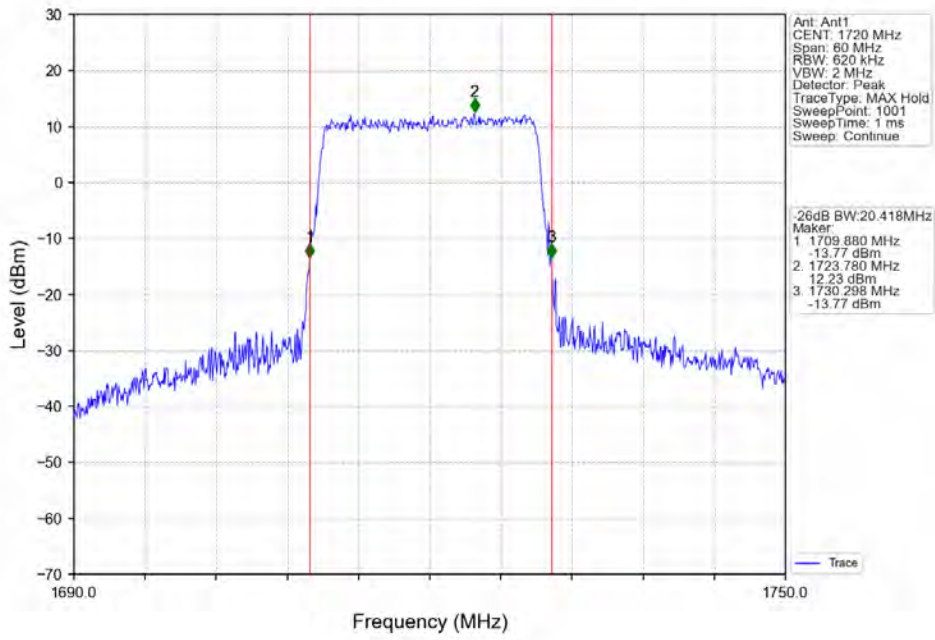
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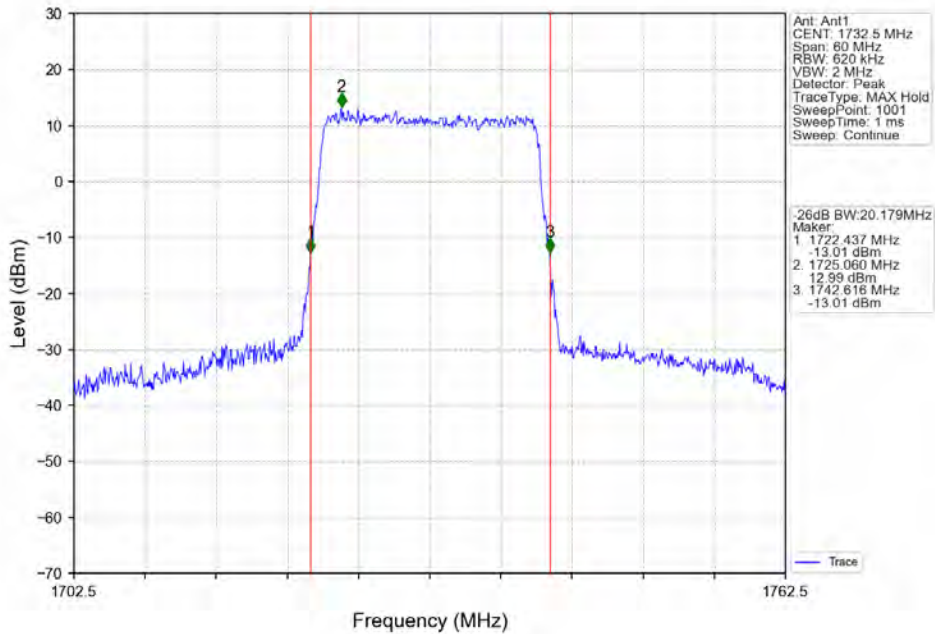
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_75\_0\_NTNV



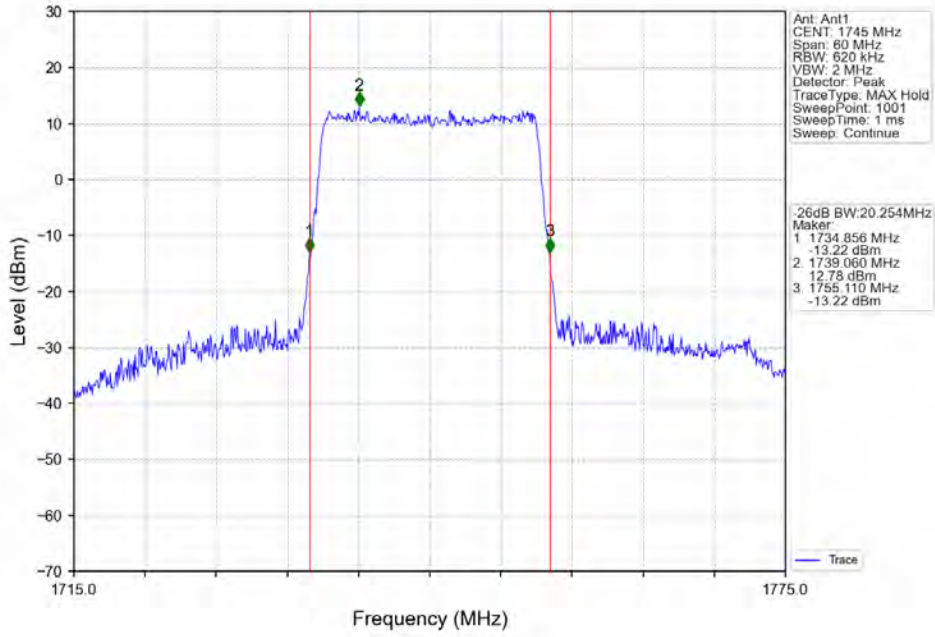
Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV



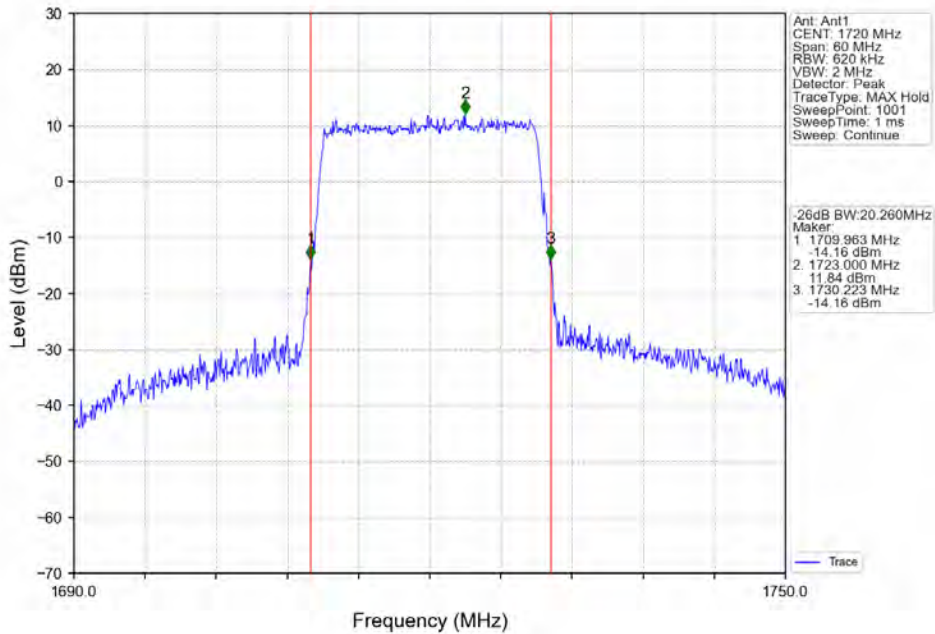
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



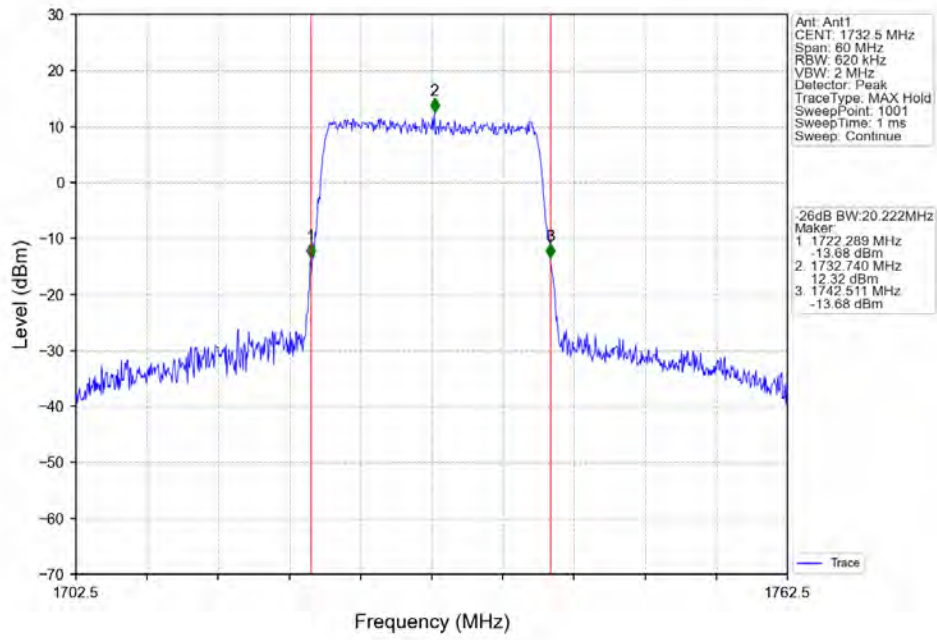
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



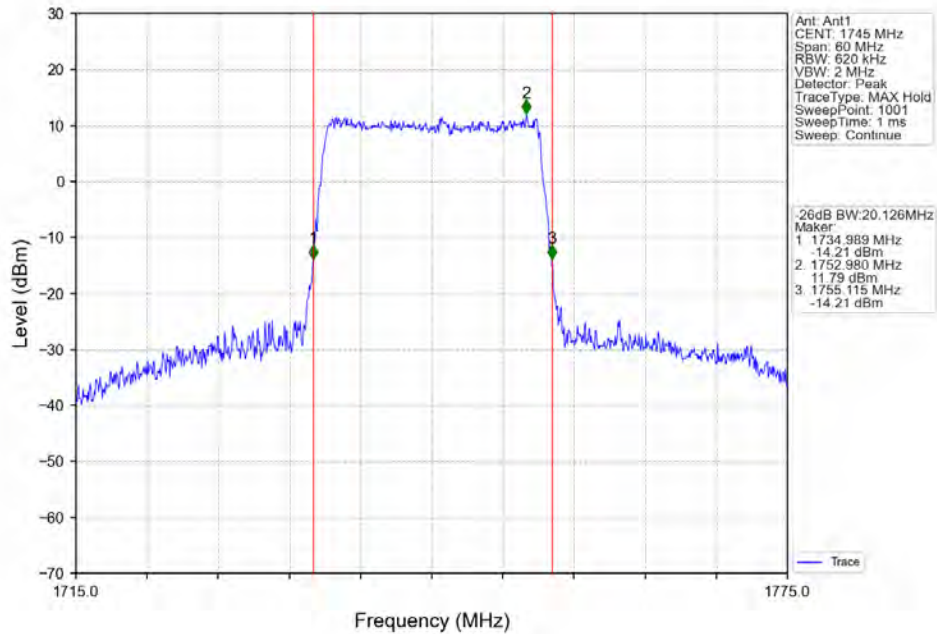
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



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



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



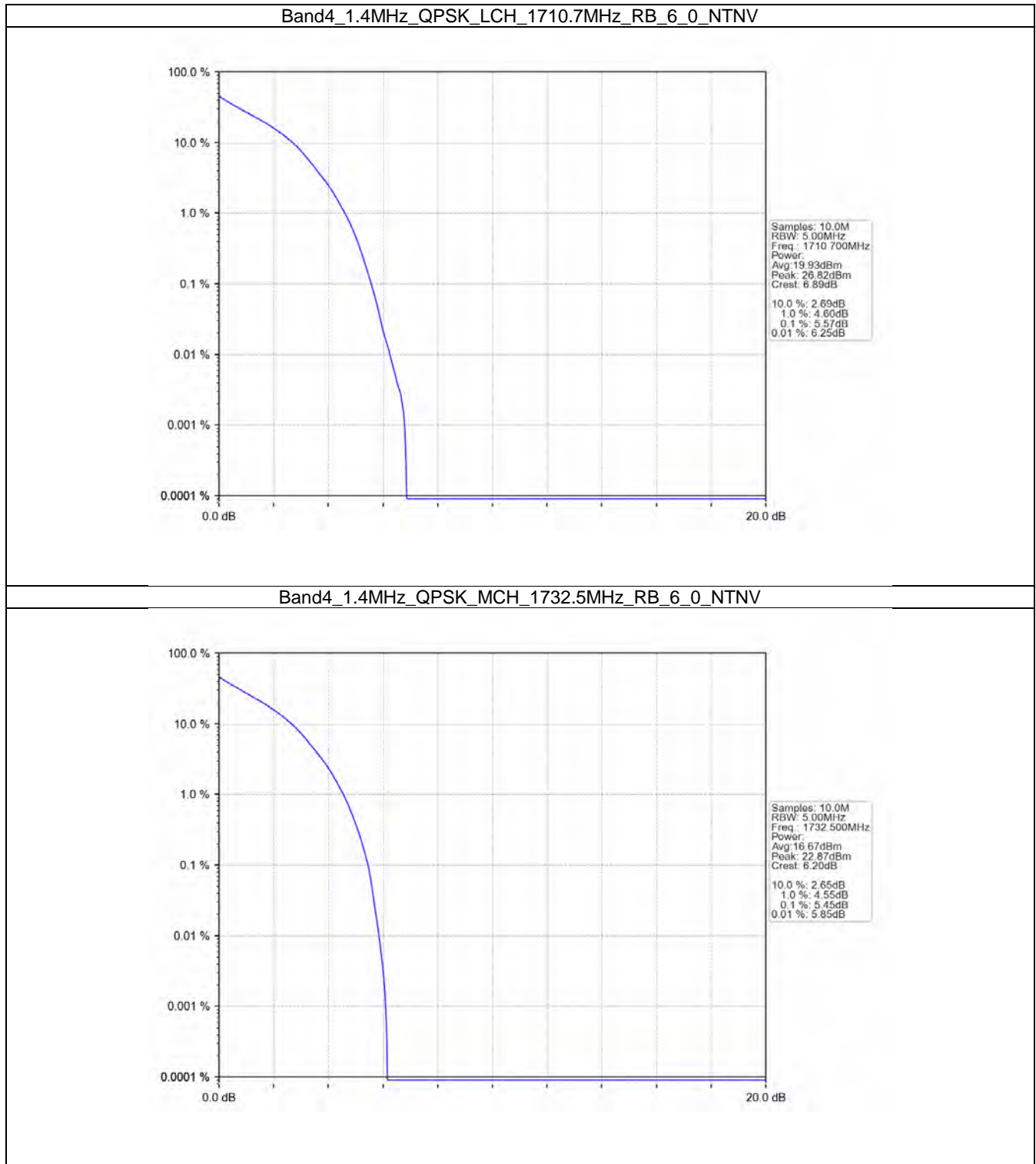
## 5. Peak-Average Ratio

### 5.1 B4\_1.4MHz

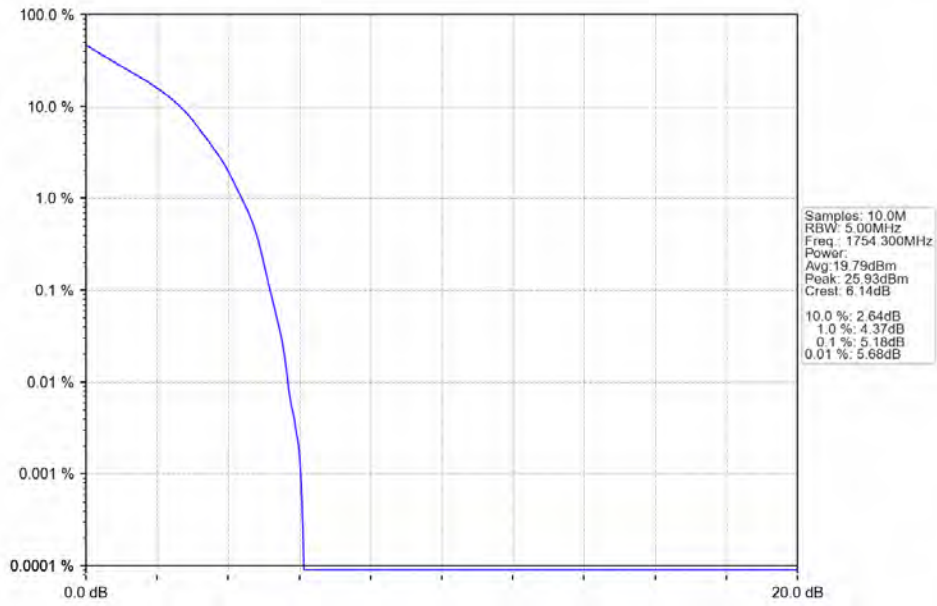
#### 5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.57	<=13	Pass
	1732.5	6	0	5.45	<=13	Pass
	1754.3	6	0	5.18	<=13	Pass
16QAM	1710.7	6	0	6.34	<=13	Pass
	1732.5	6	0	6.26	<=13	Pass
	1754.3	6	0	6.08	<=13	Pass

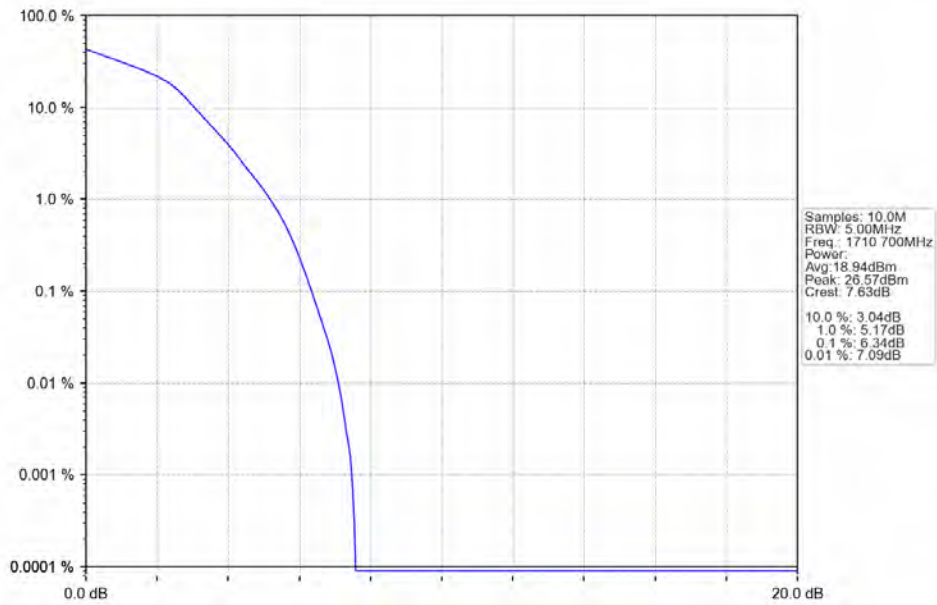
### 5.1.2 Test Graph



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

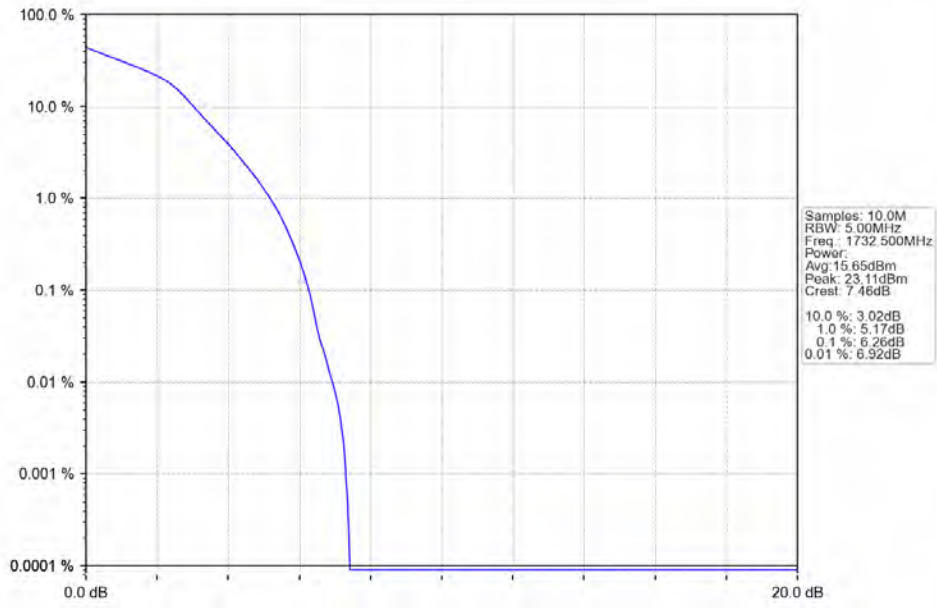


Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV

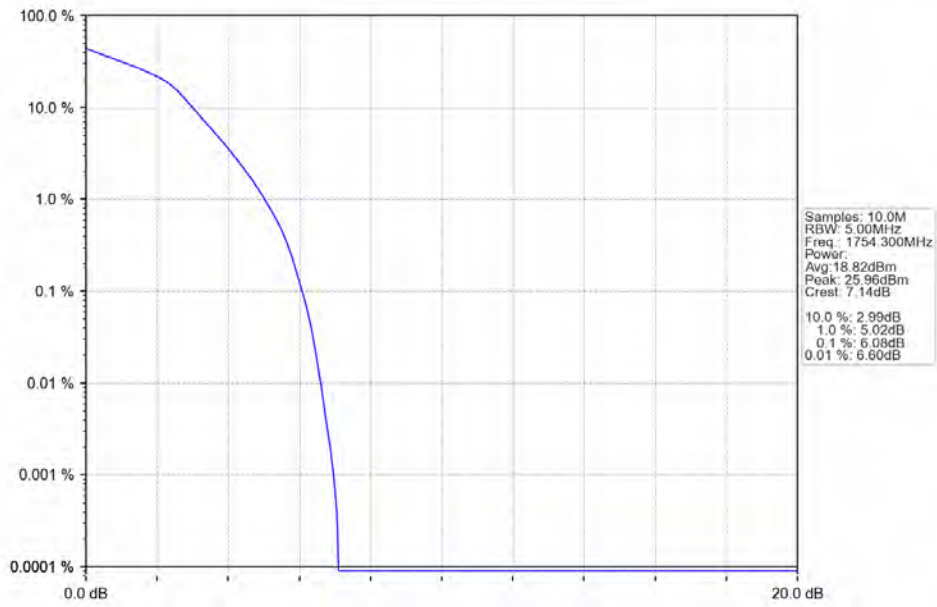




Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



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

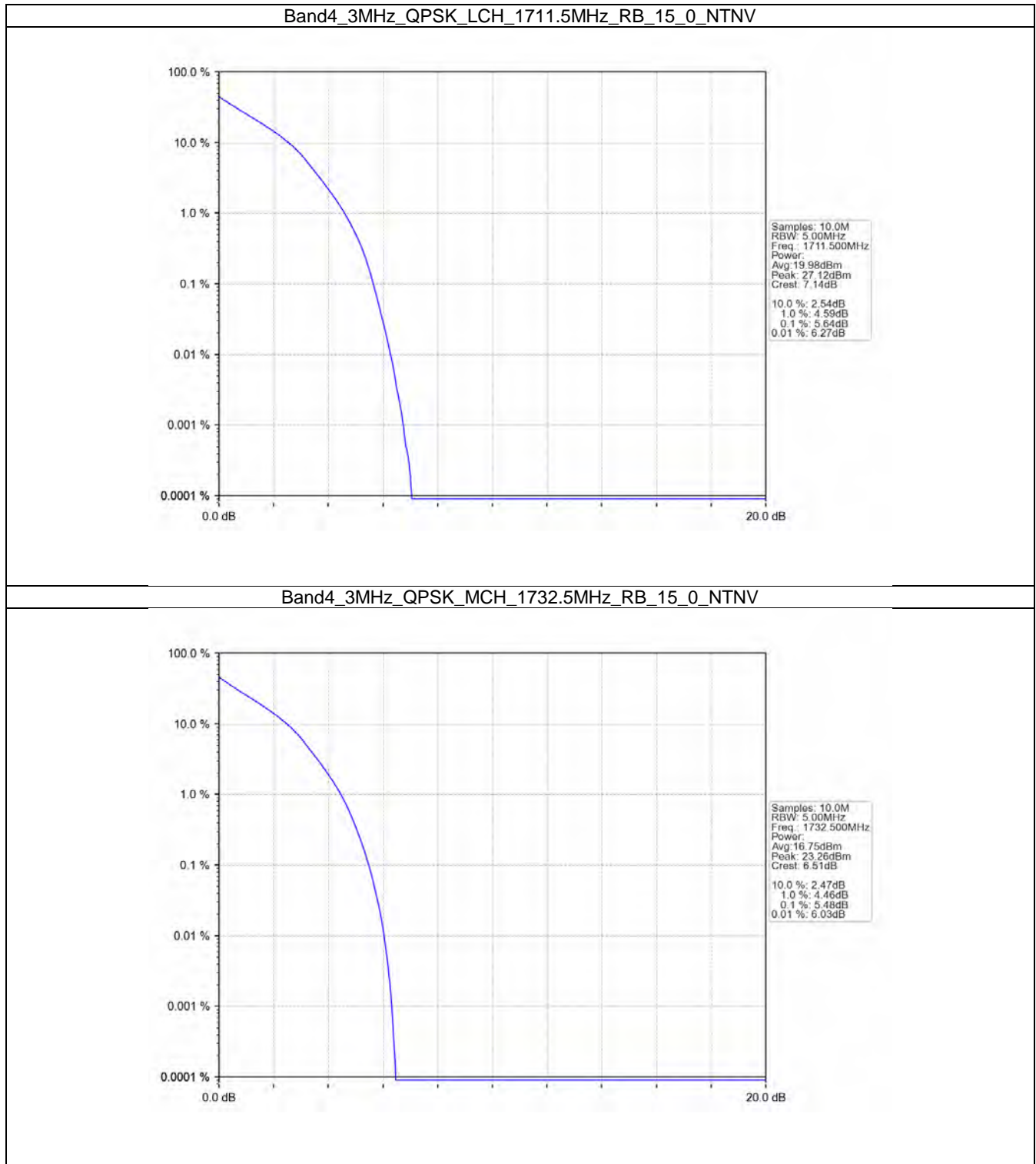


## 5.2 B4\_3MHz

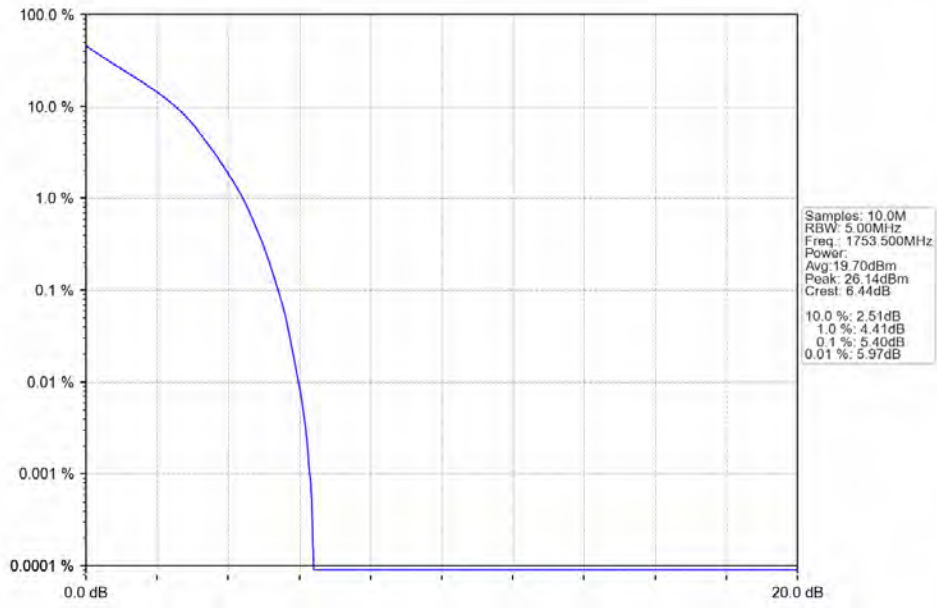
### 5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.64	<=13	Pass
	1732.5	15	0	5.48	<=13	Pass
	1753.5	15	0	5.40	<=13	Pass
16QAM	1711.5	15	0	6.46	<=13	Pass
	1732.5	15	0	6.33	<=13	Pass
	1753.5	15	0	6.24	<=13	Pass

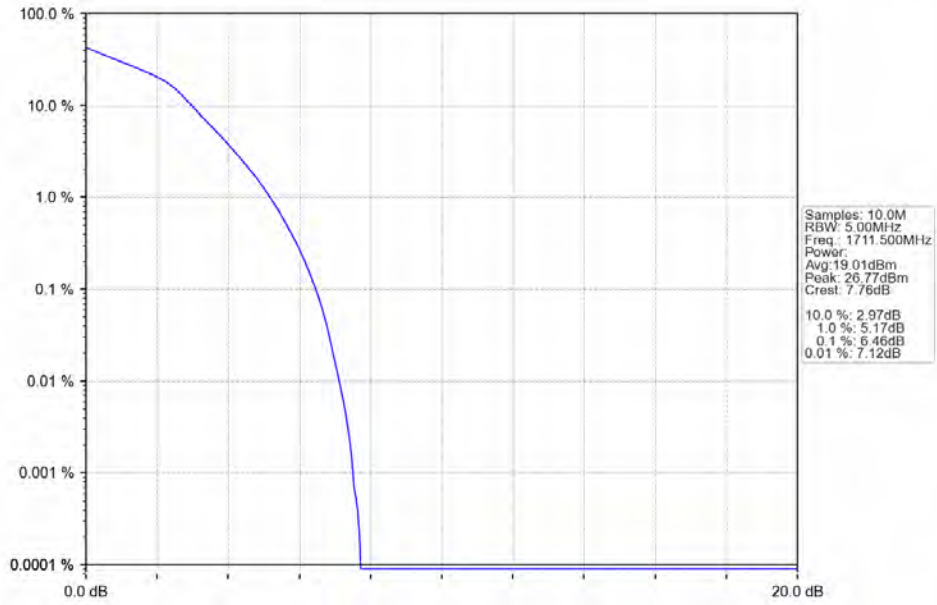
## 5.2.2 Test Graph



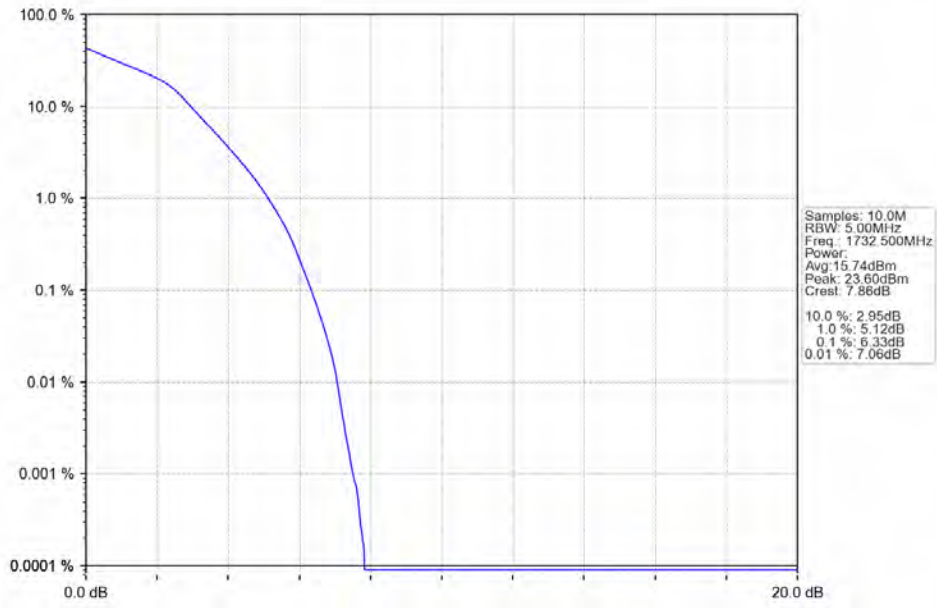
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



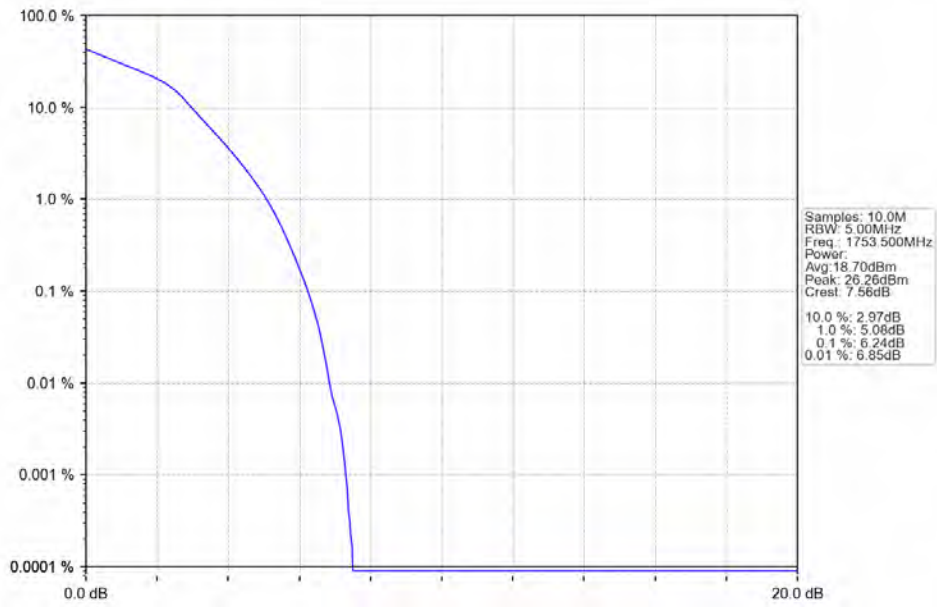
Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



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



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

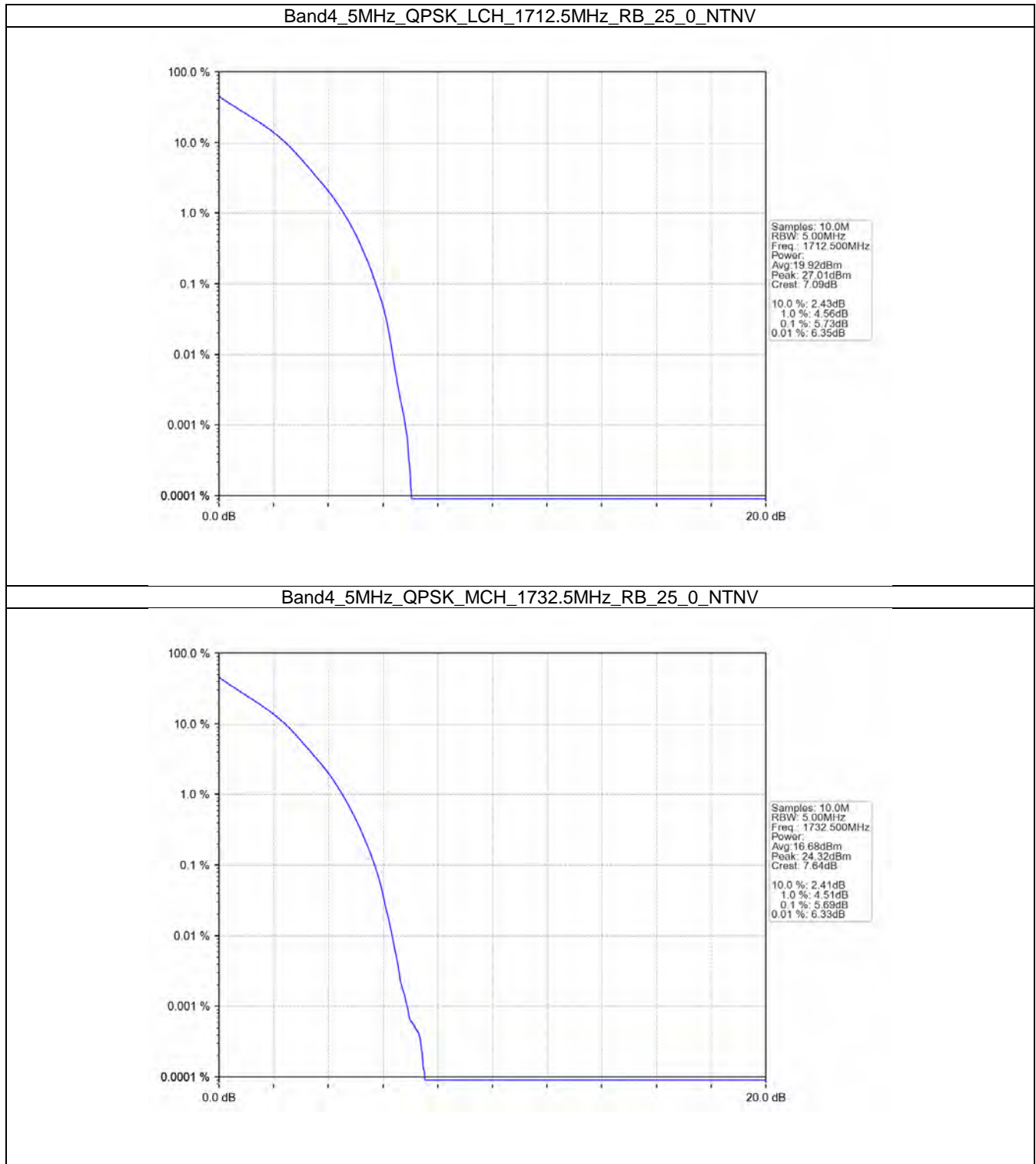


## 5.3 B4\_5MHz

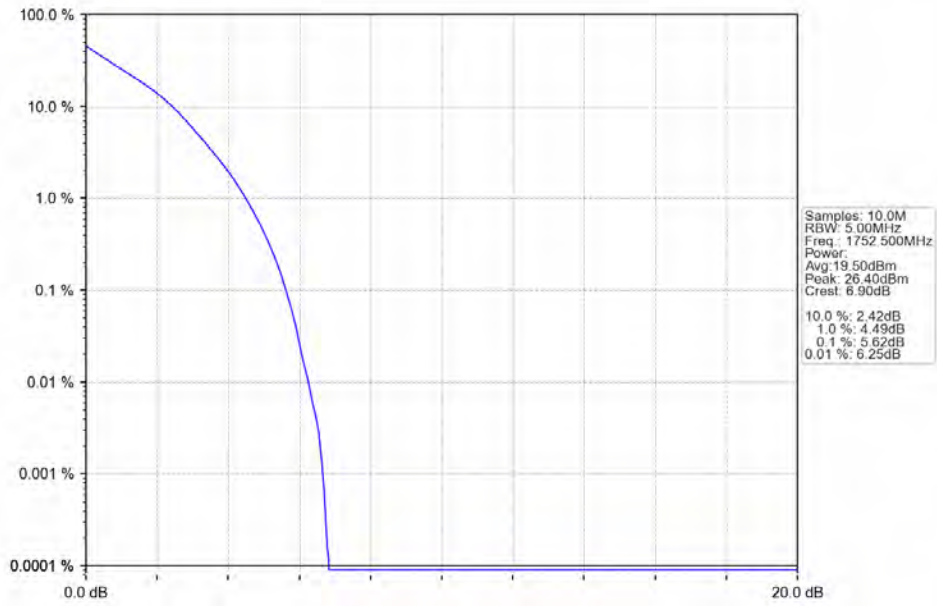
### 5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.73	<=13	Pass
	1732.5	25	0	5.69	<=13	Pass
	1752.5	25	0	5.62	<=13	Pass
16QAM	1712.5	25	0	6.49	<=13	Pass
	1732.5	25	0	6.39	<=13	Pass
	1752.5	25	0	6.33	<=13	Pass

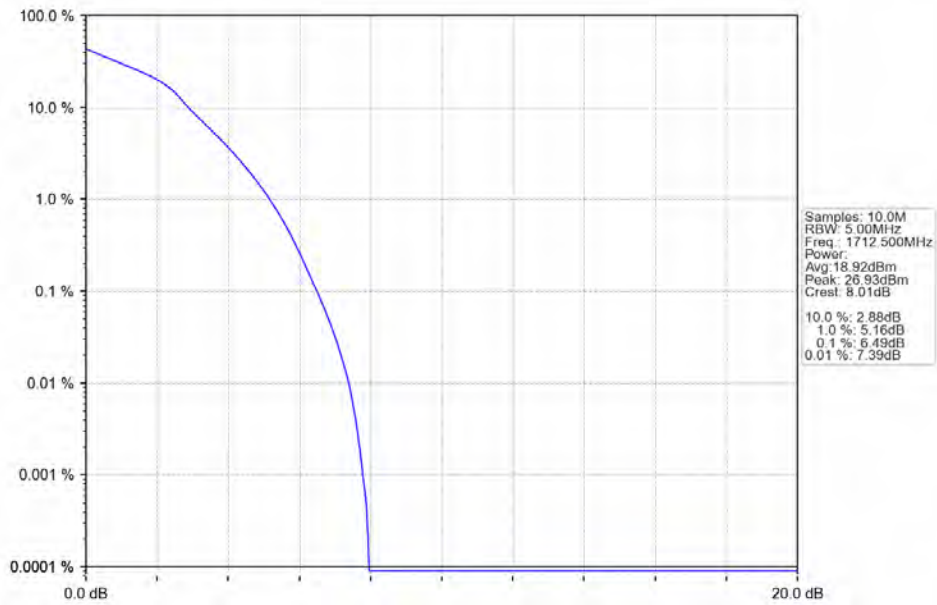
### 5.3.2 Test Graph



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

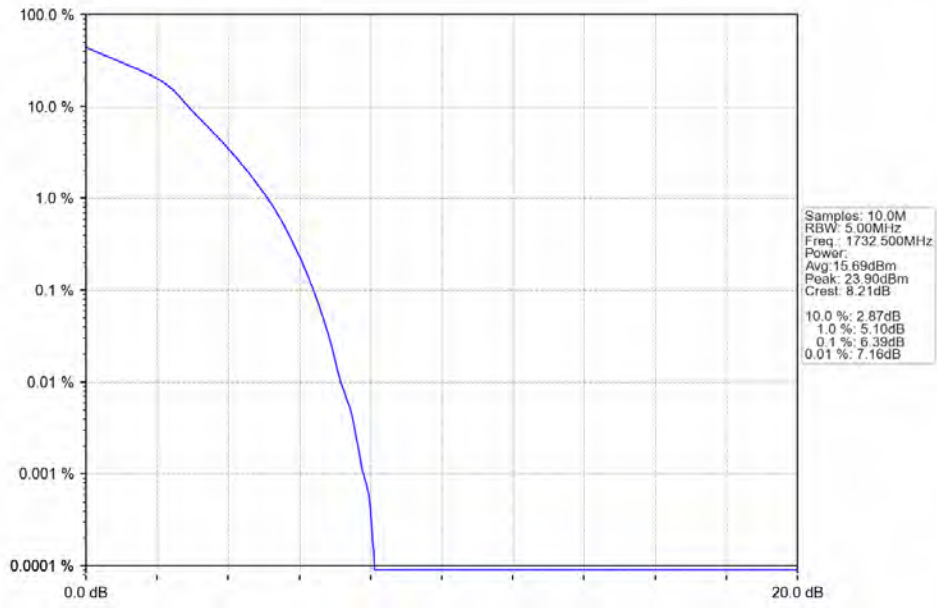


Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

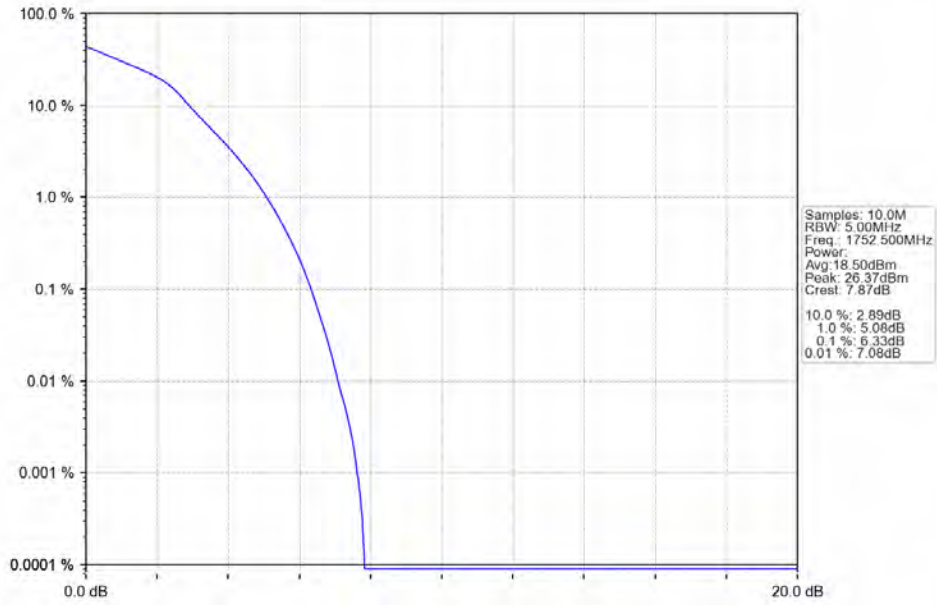




Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



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

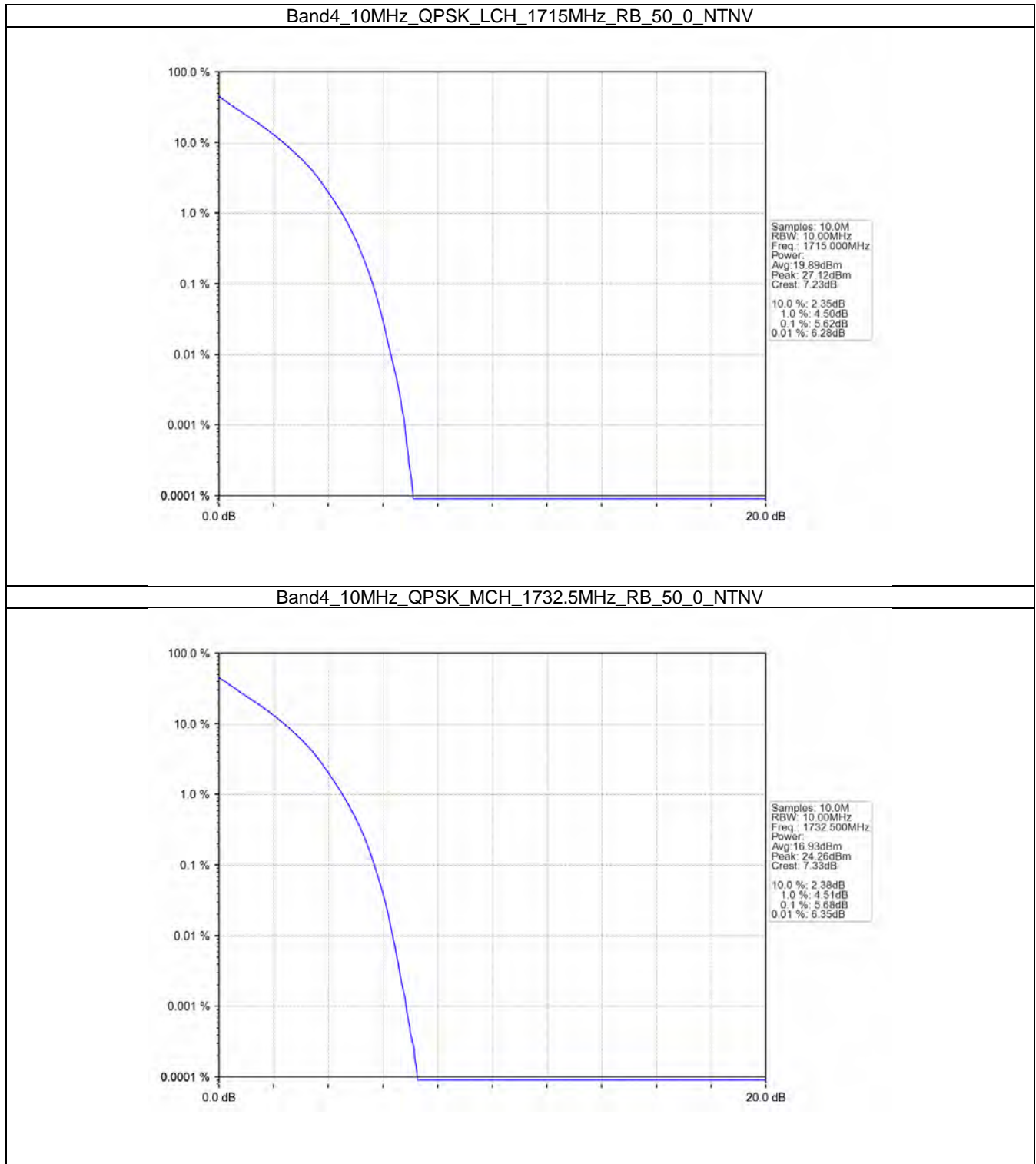


## 5.4 B4\_10MHz

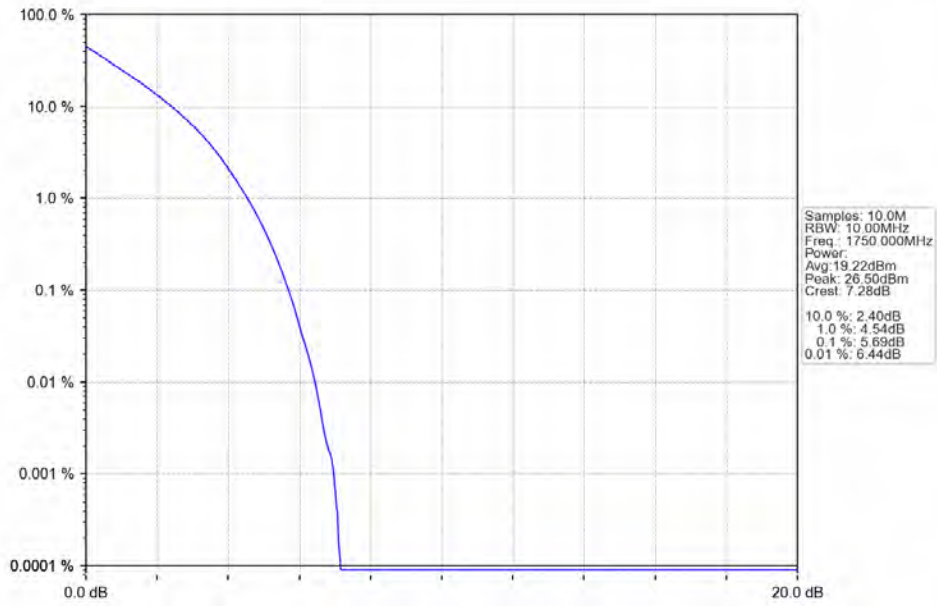
### 5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.62	<=13	Pass
	1732.5	50	0	5.68	<=13	Pass
	1750	50	0	5.69	<=13	Pass
16QAM	1715	50	0	6.42	<=13	Pass
	1732.5	50	0	6.45	<=13	Pass
	1750	50	0	6.43	<=13	Pass

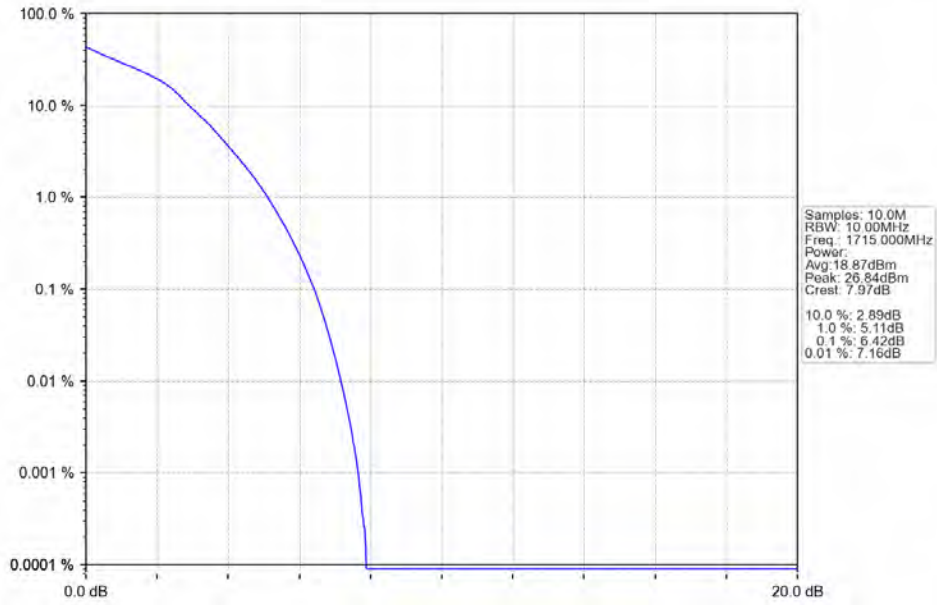
### 5.4.2 Test Graph



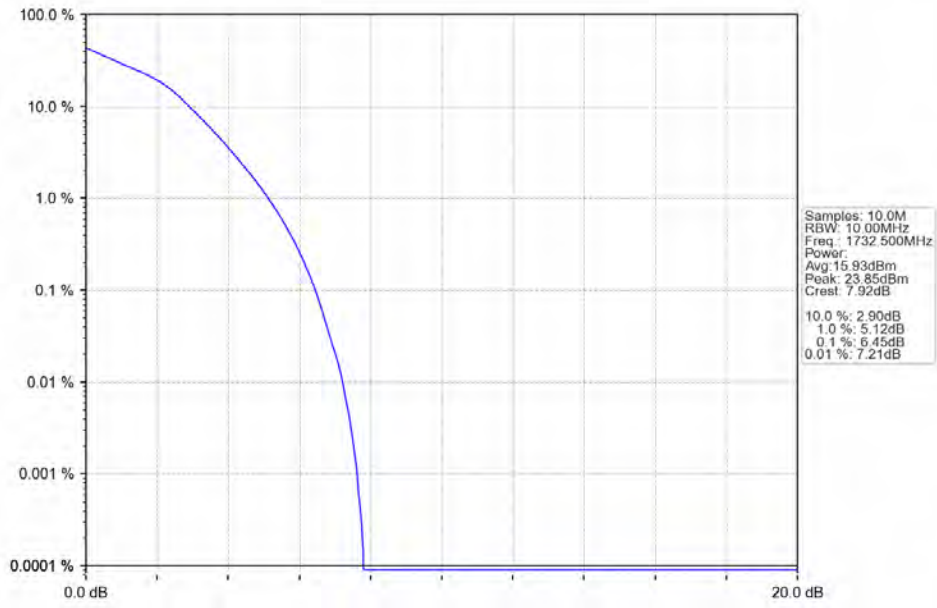
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



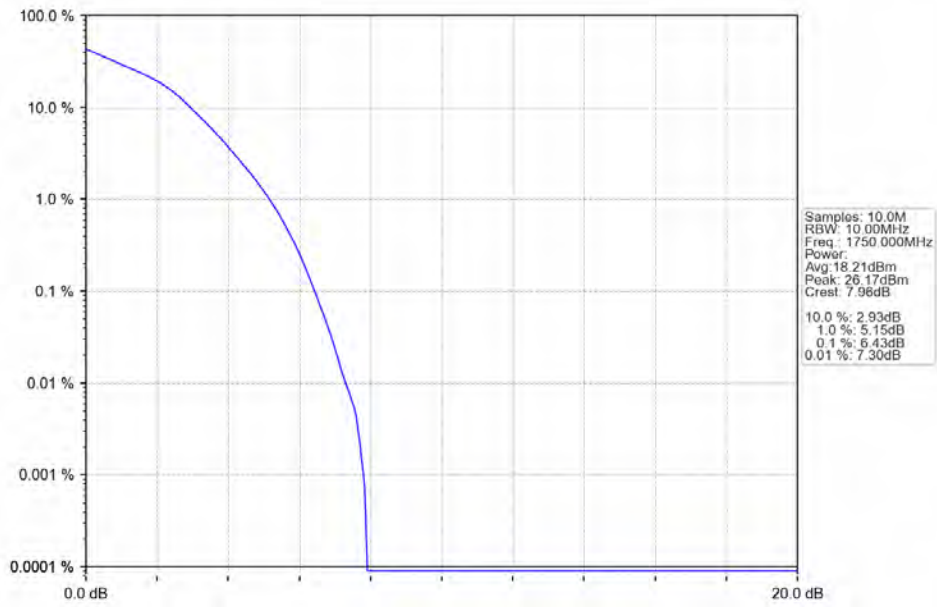
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



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



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

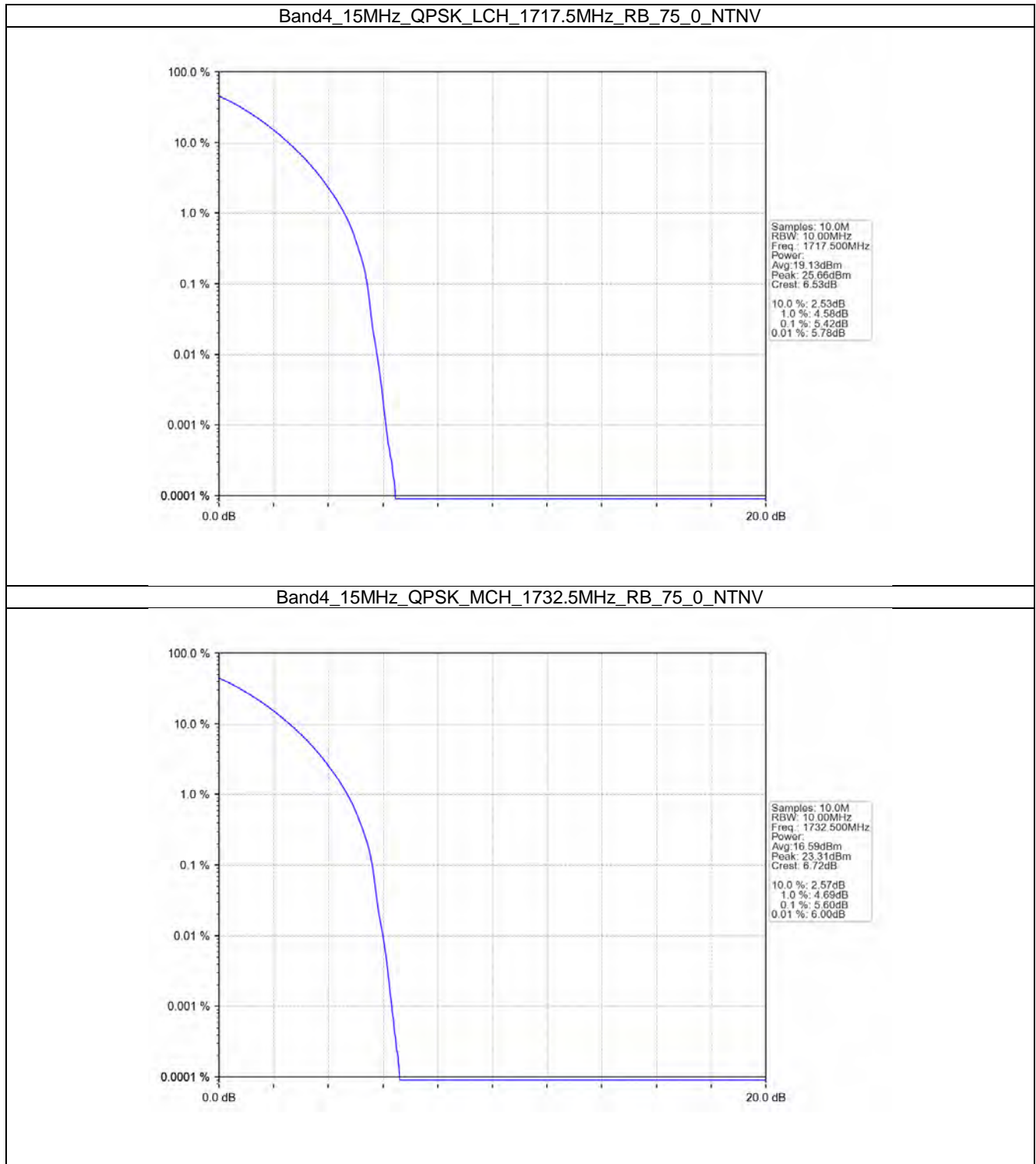


## 5.5 B4\_15MHz

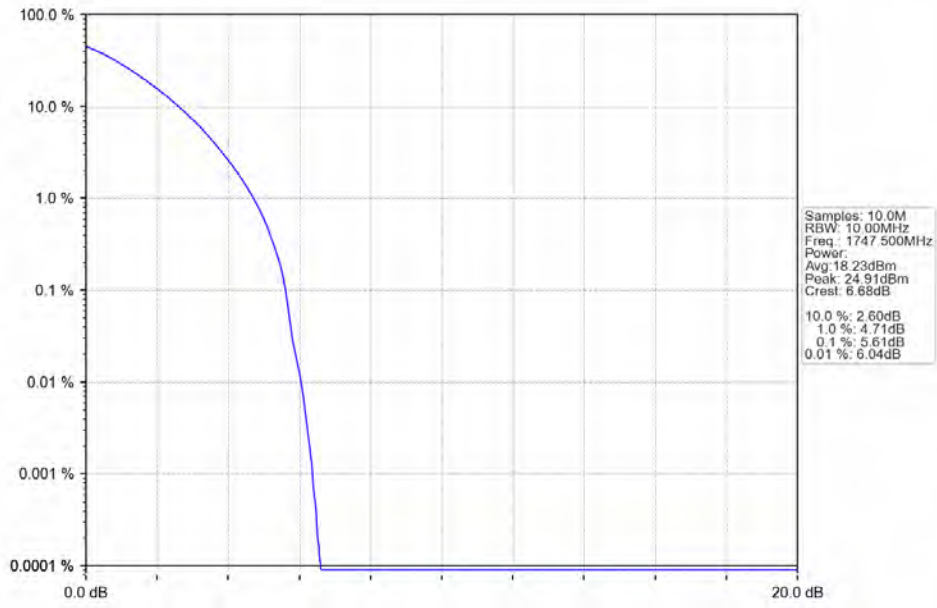
### 5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.42	<=13	Pass
	1732.5	75	0	5.60	<=13	Pass
	1747.5	75	0	5.61	<=13	Pass
16QAM	1717.5	75	0	6.21	<=13	Pass
	1732.5	75	0	6.30	<=13	Pass
	1747.5	75	0	6.35	<=13	Pass

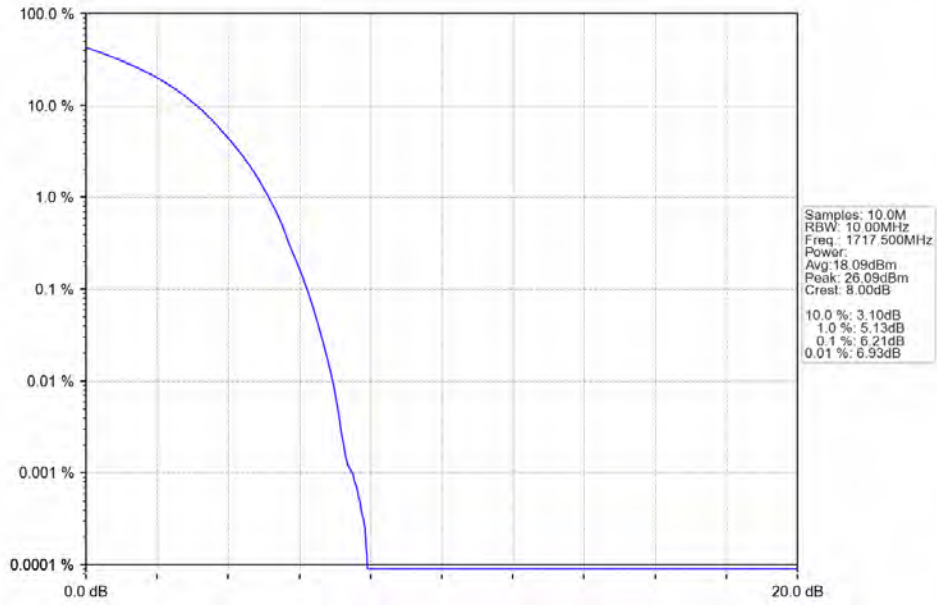
### 5.5.2 Test Graph



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

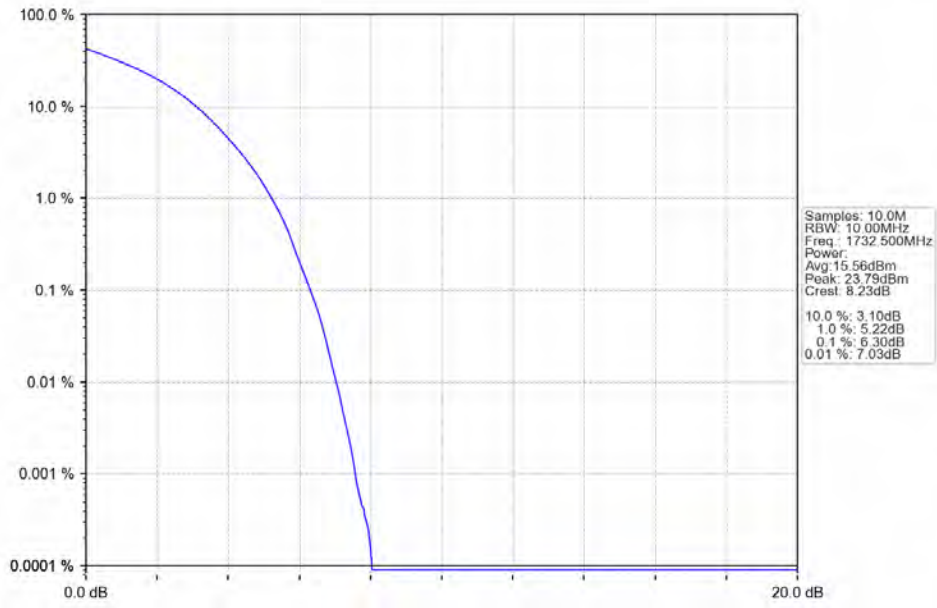


Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

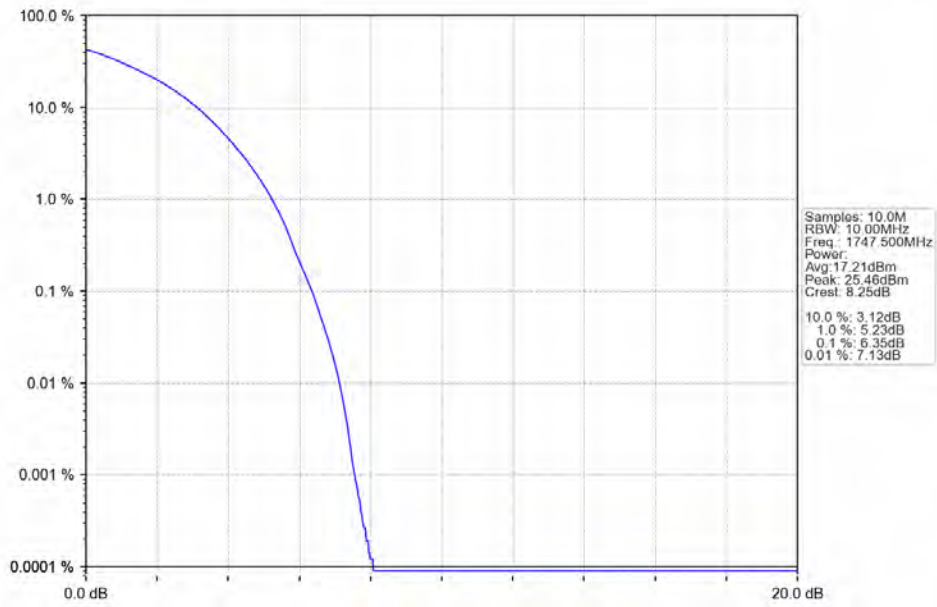




Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



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

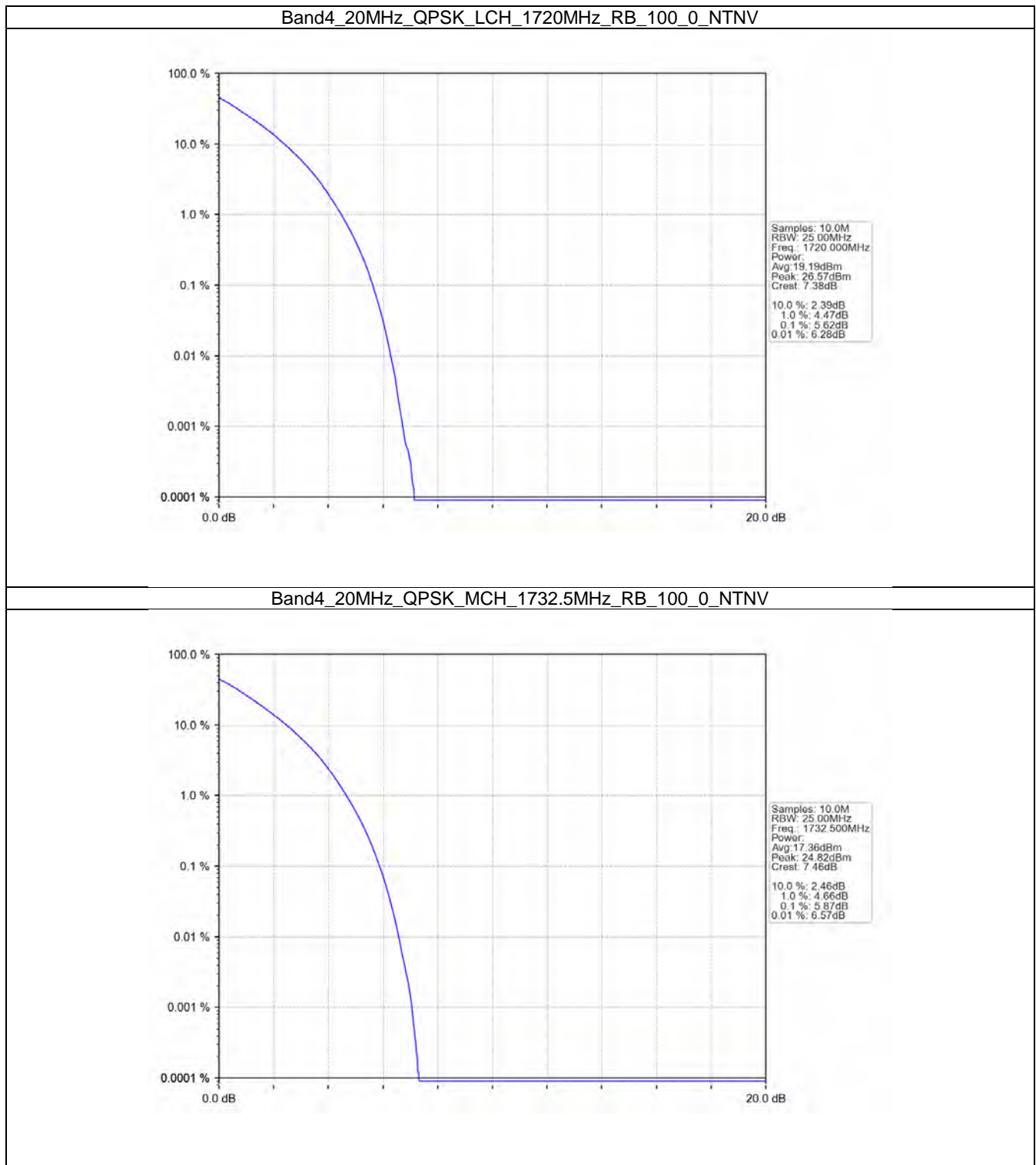


## 5.6 B4\_20MHz

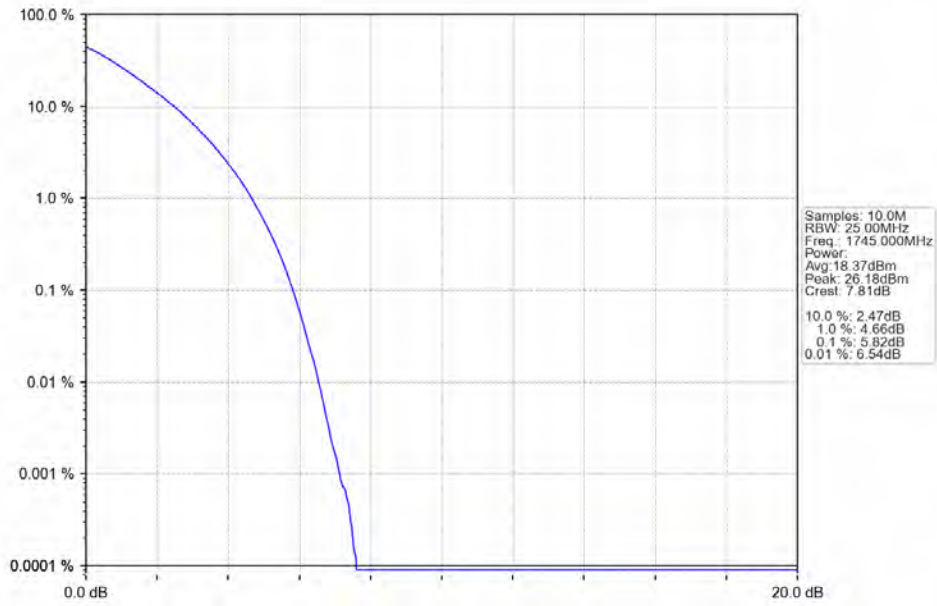
### 5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.62	<=13	Pass
	1732.5	100	0	5.87	<=13	Pass
	1745	100	0	5.82	<=13	Pass
16QAM	1720	100	0	6.36	<=13	Pass
	1732.5	100	0	6.56	<=13	Pass
	1745	100	0	6.59	<=13	Pass

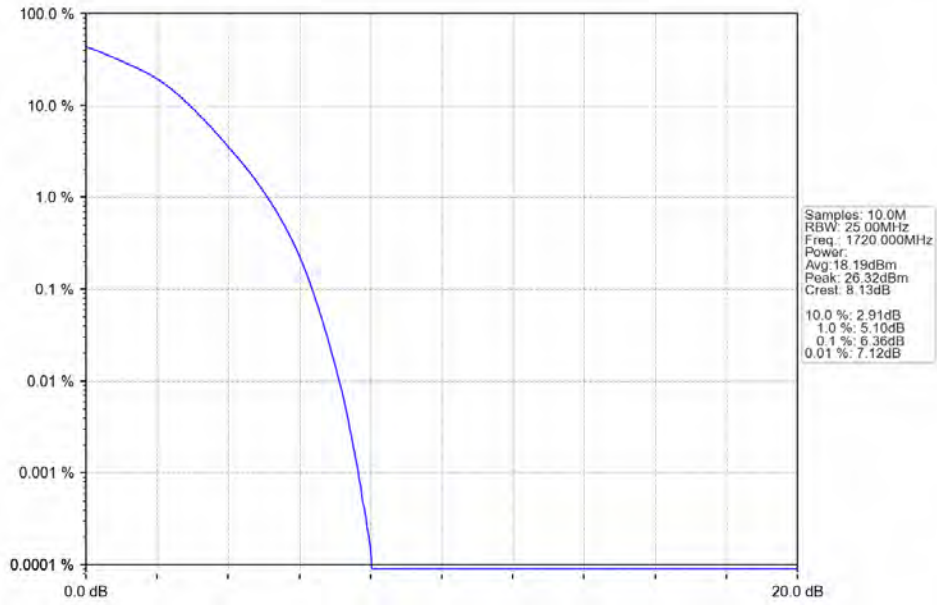
### 5.6.2 Test Graph



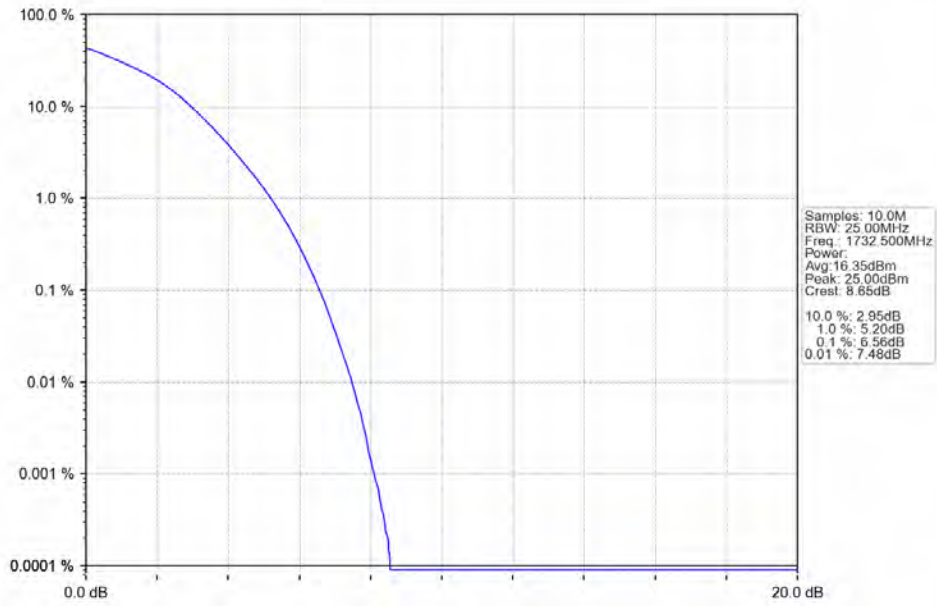
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



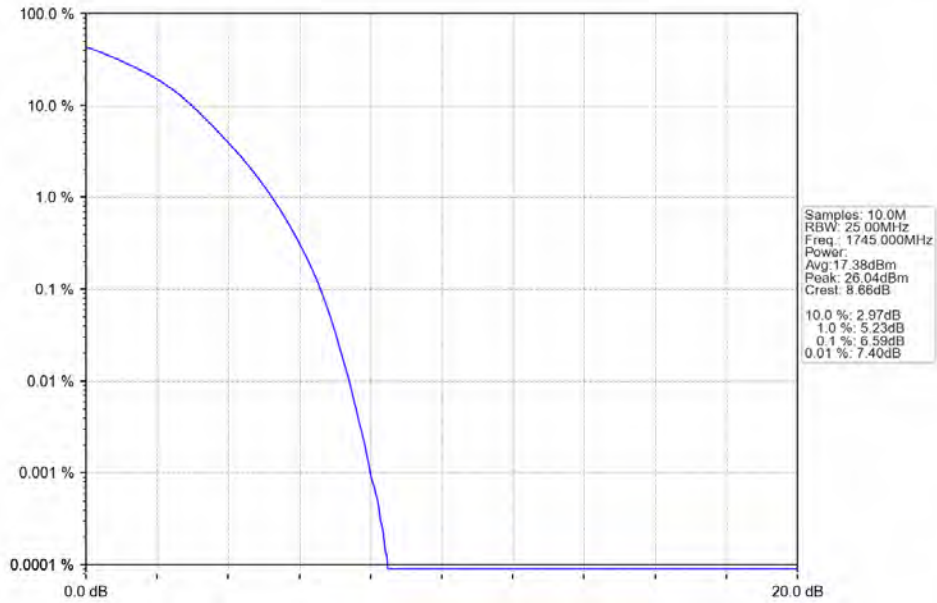
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



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



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



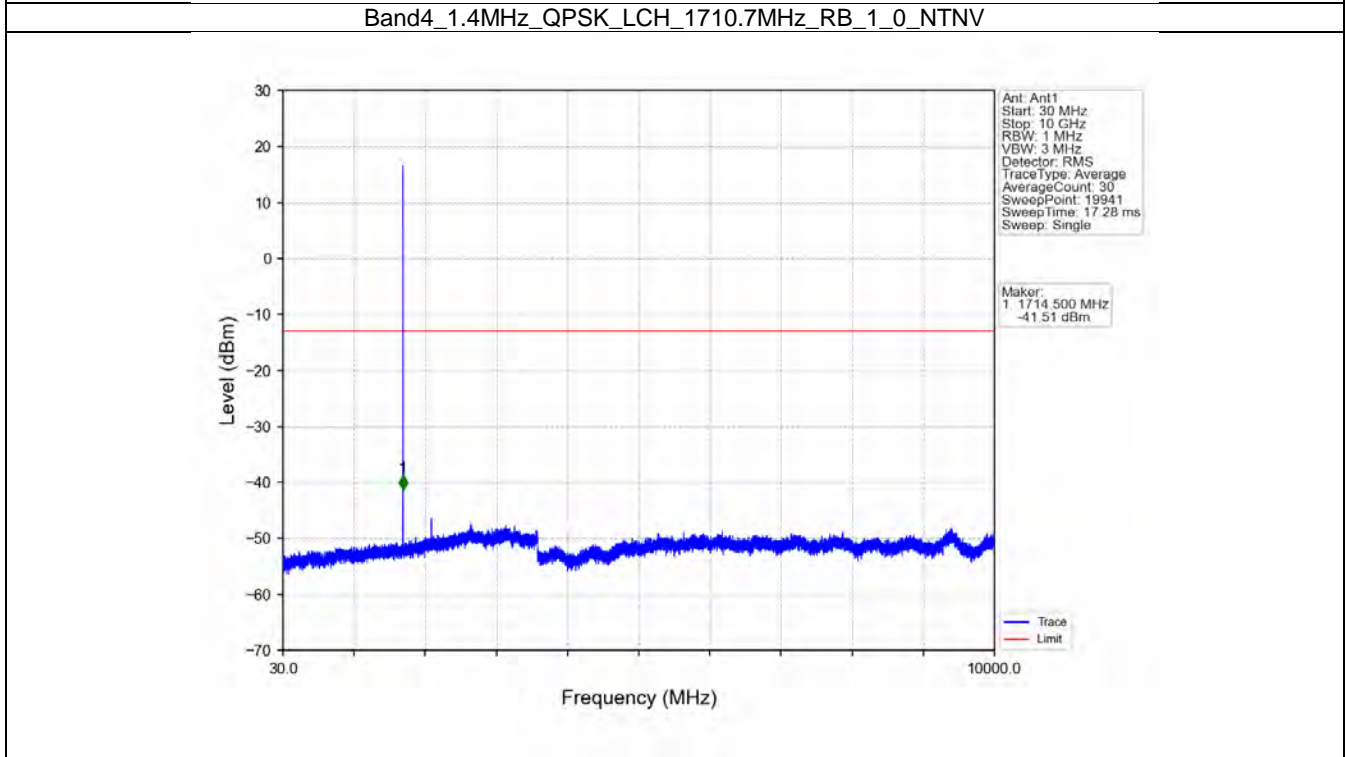
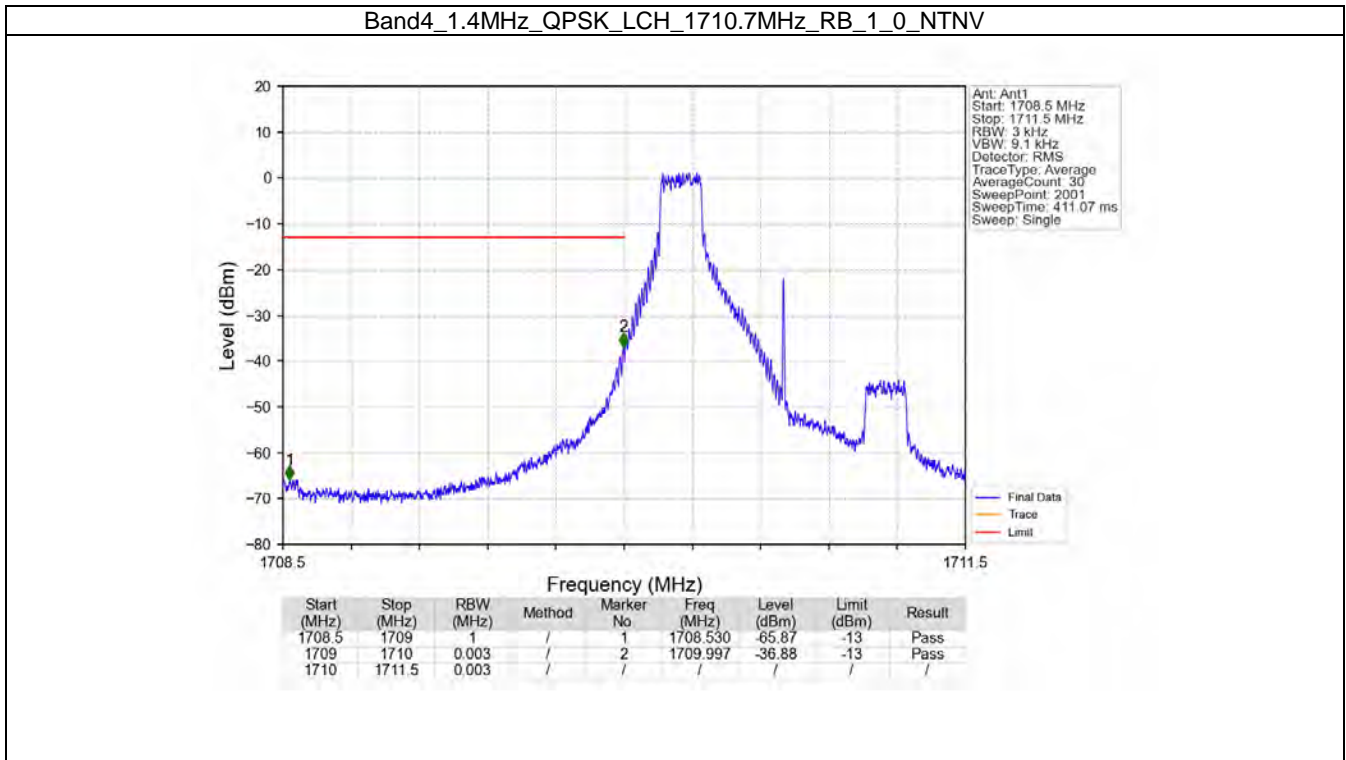
## 6. Spurious Emission

### 6.1 B4\_1.4MHz

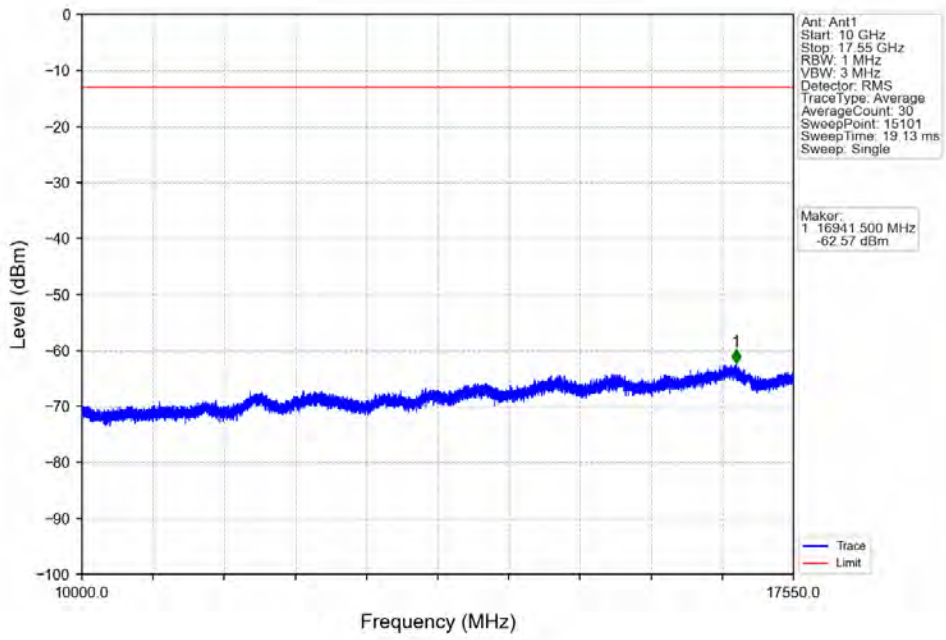
#### 6.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1710.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	1754.3	1732.5	1	0	Refer To Test Graph		Pass
			1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass	
			0	Refer To Test Graph		Pass	
16QAM	1710.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	1754.3	1732.5	1	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass	
			0	Refer To Test Graph		Pass	

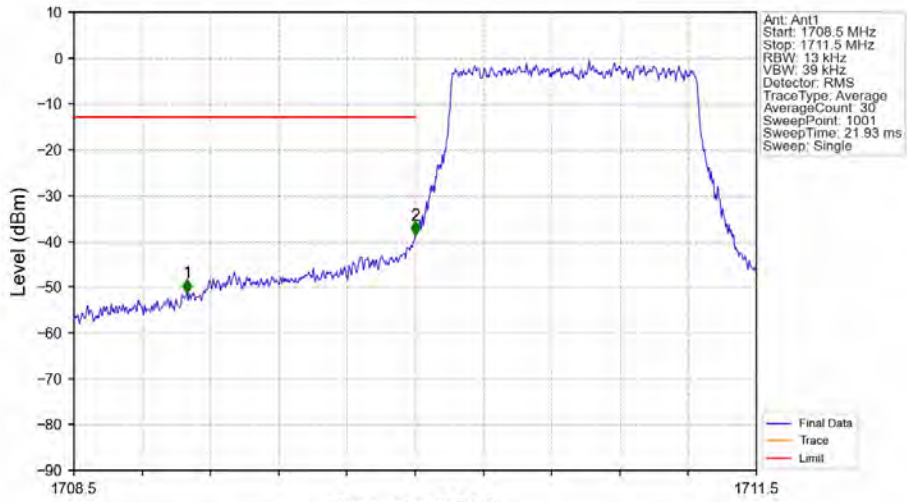
### 6.1.2 Test Graph



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



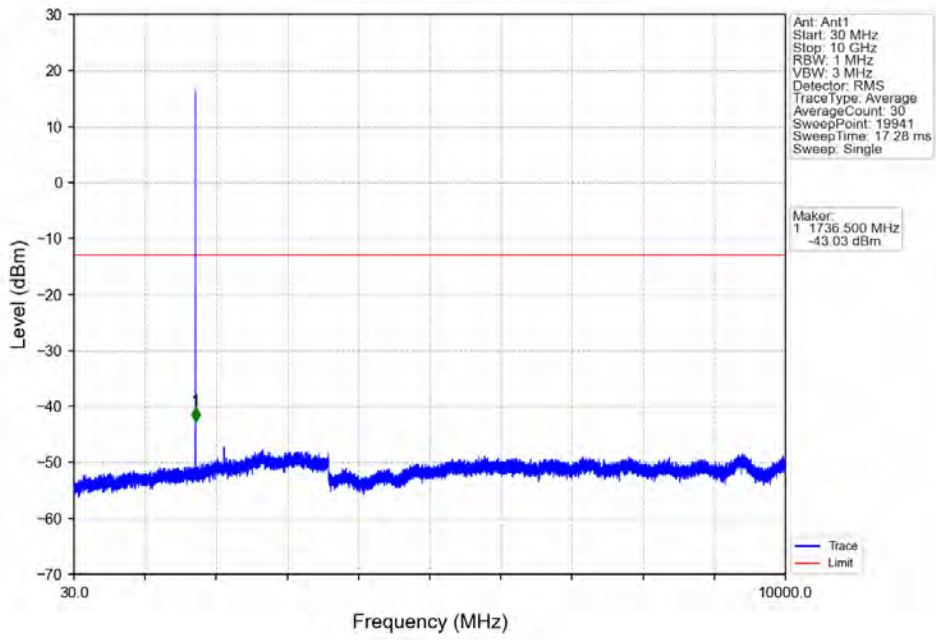
Band4\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



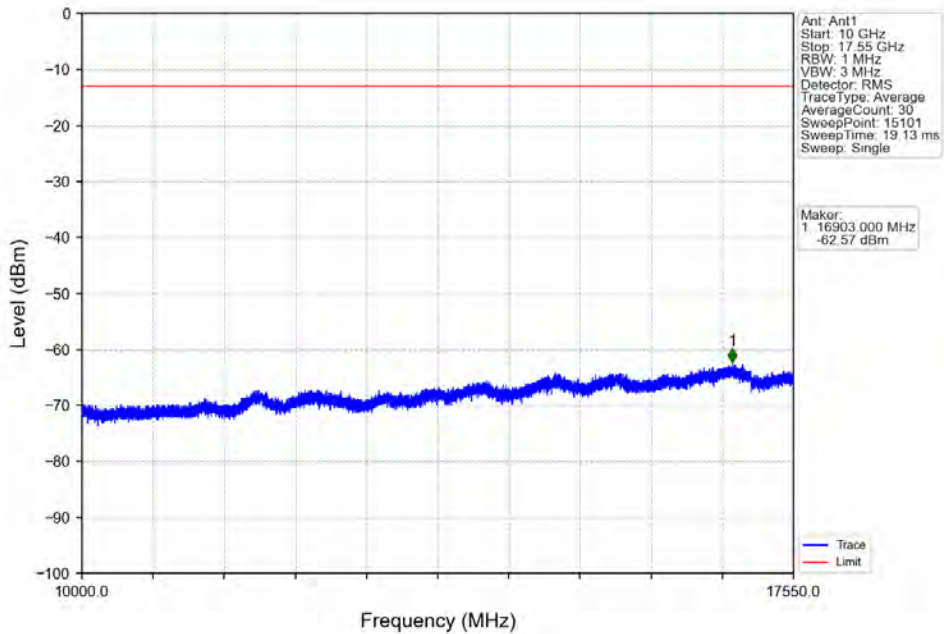
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.998	-51.30	-13	Pass
1709	1710	0.013	/	2	1710.000	-38.70	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



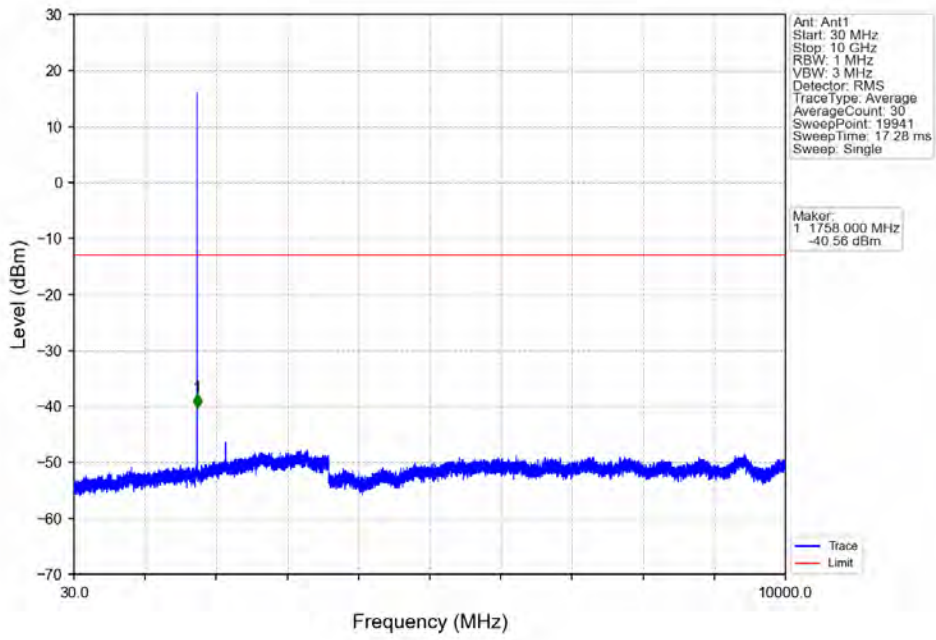
Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



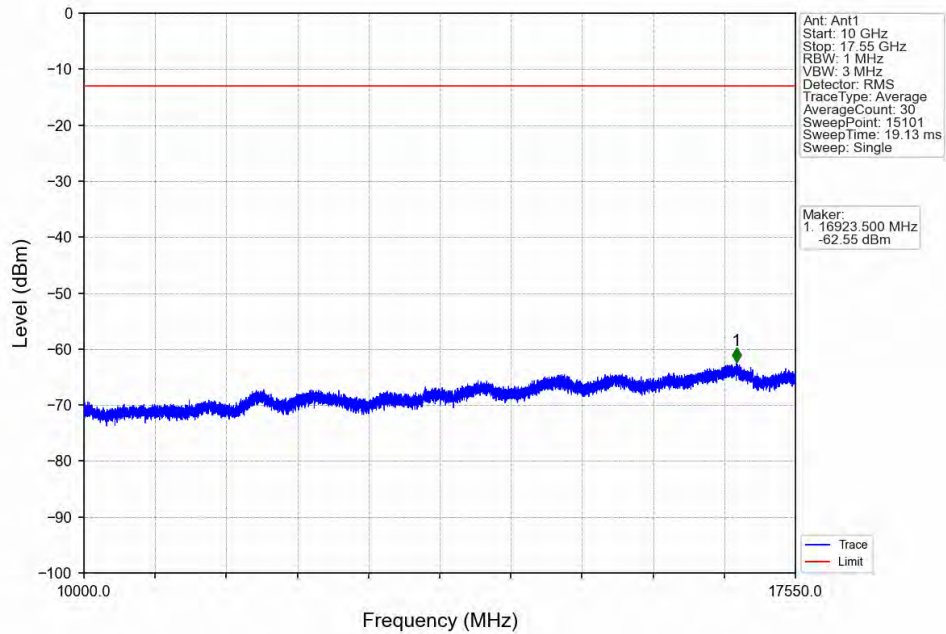
Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



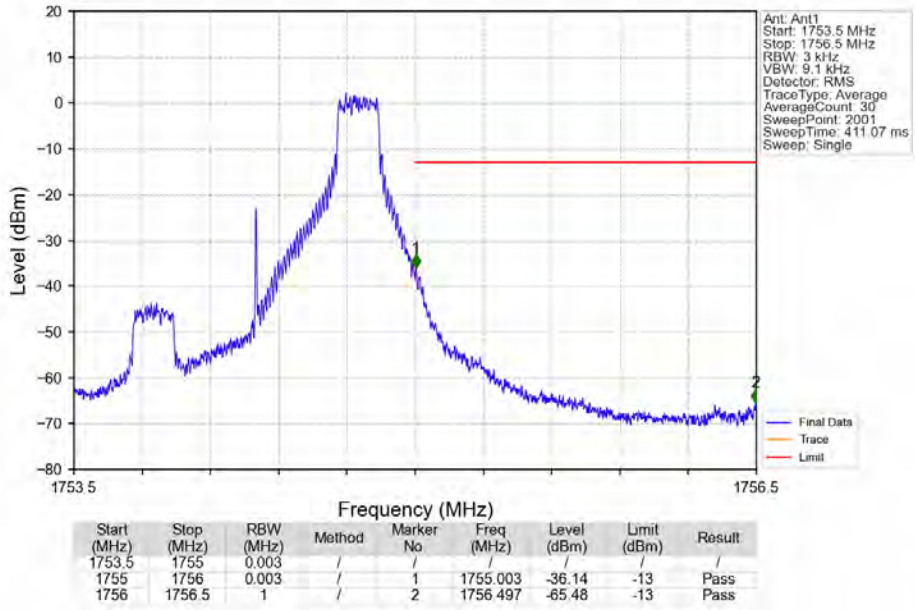
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_0\_NTNV



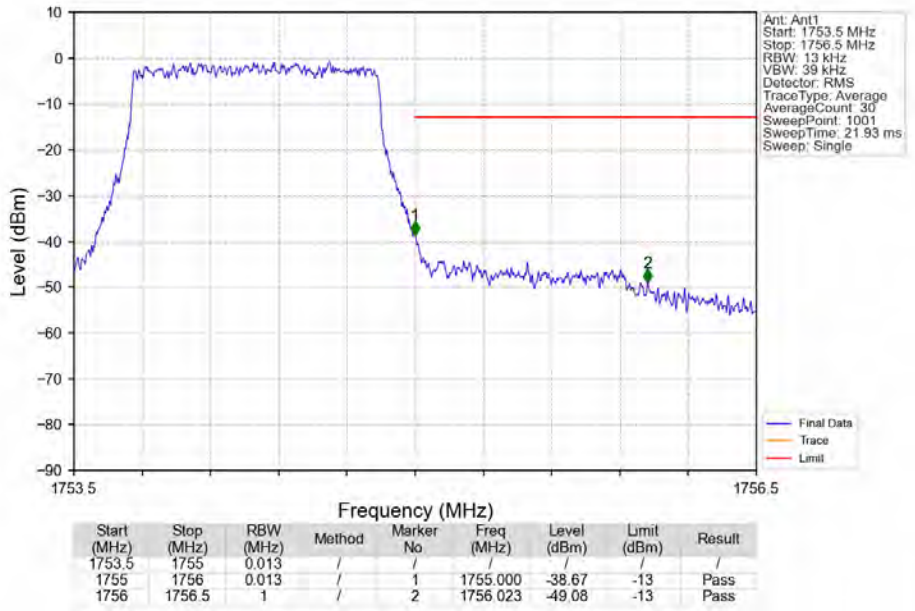
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_0\_NTNV



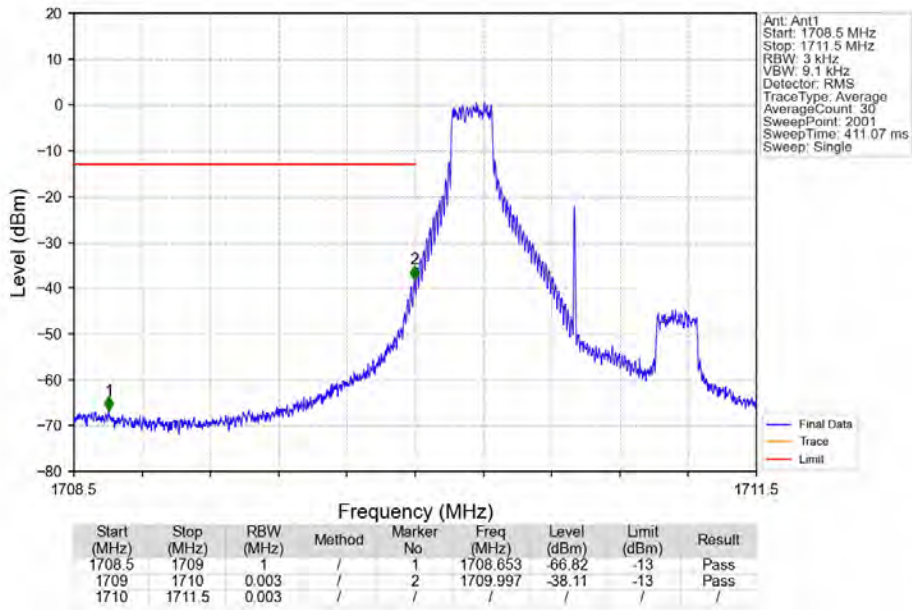
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_5\_NTNV



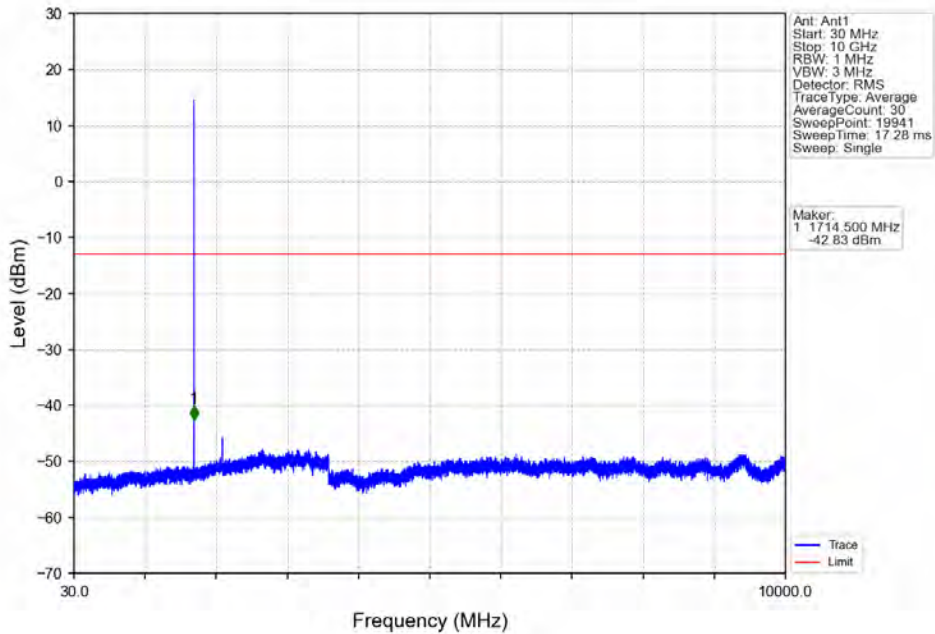
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



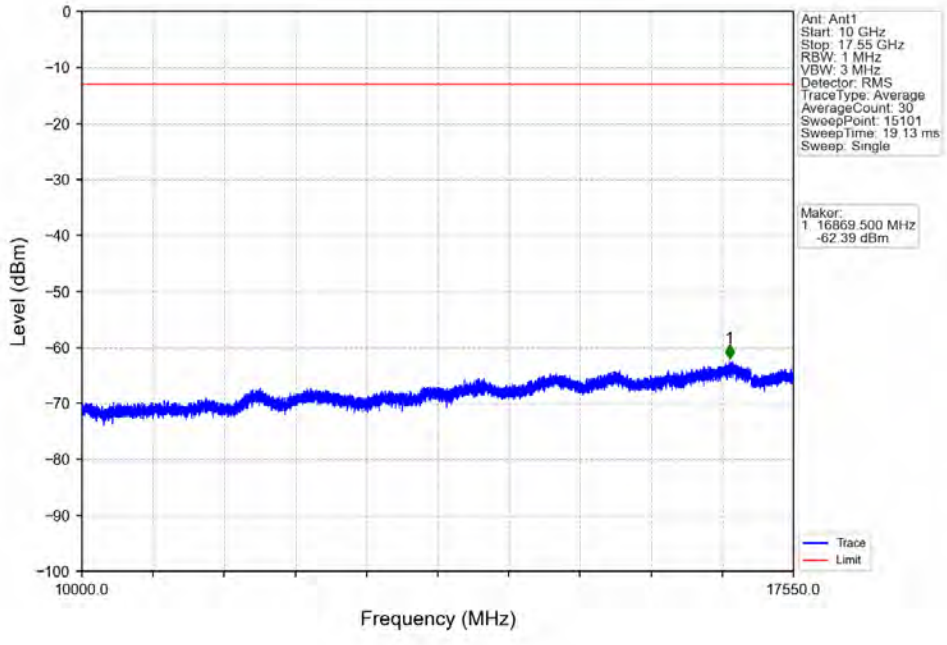
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV



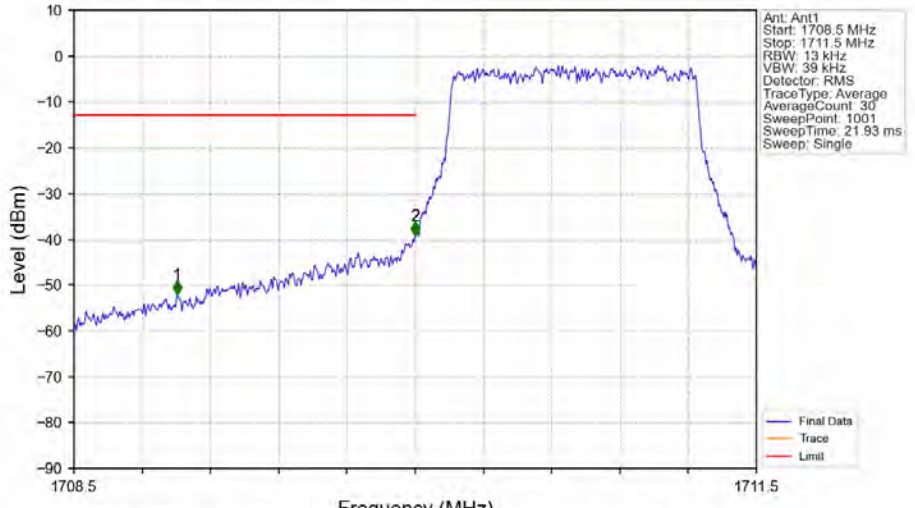
Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV



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

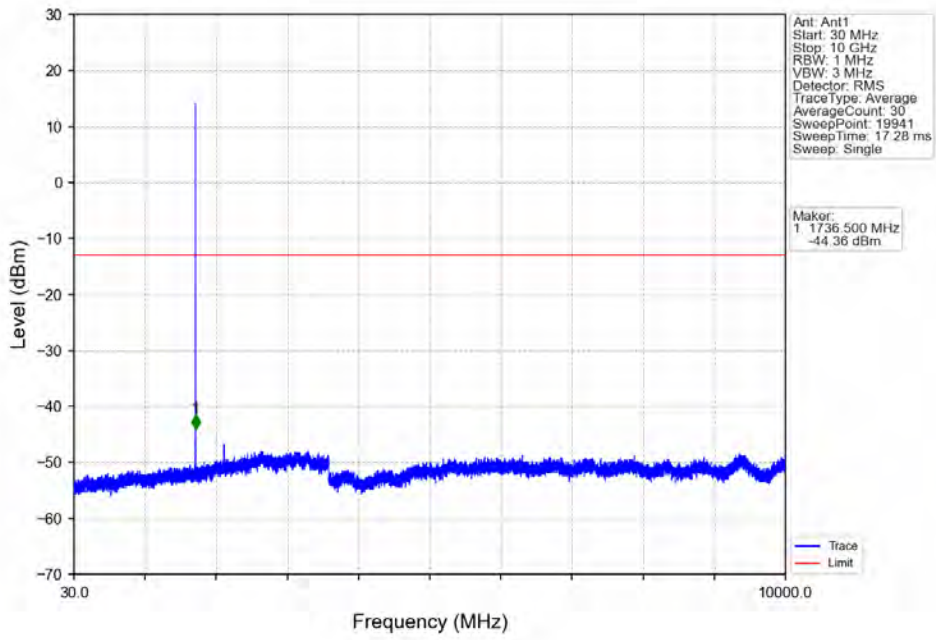


Band4\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV

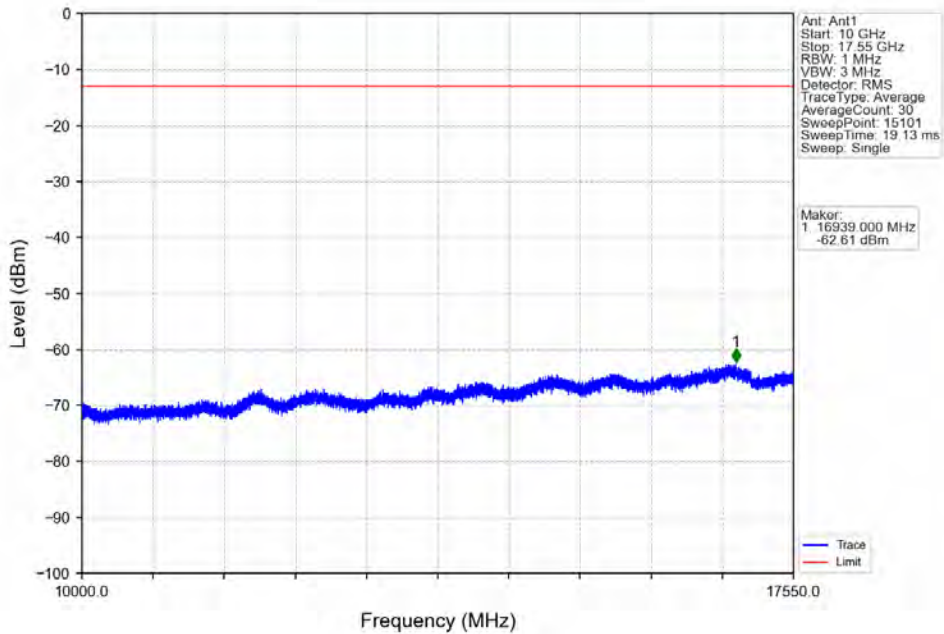


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.953	-52.12	-13	Pass
1709	1710	0.013	/	2	1710.000	-39.20	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

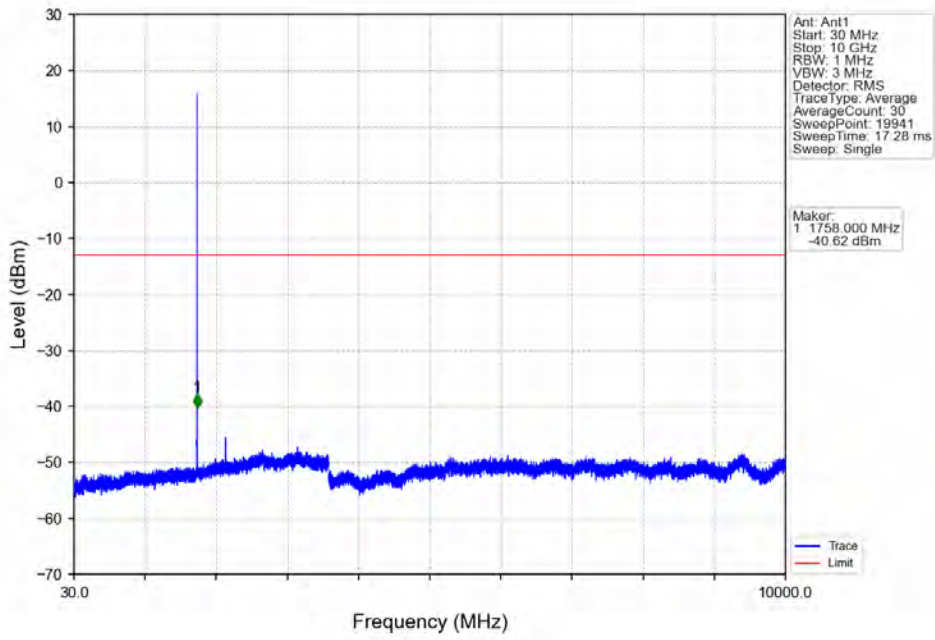
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



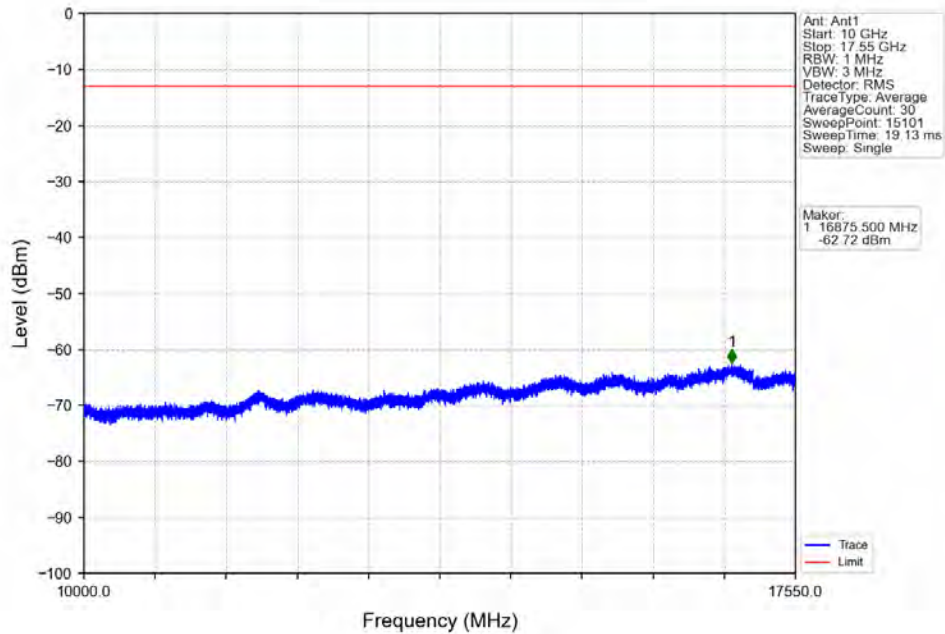
Band4\_1.4MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



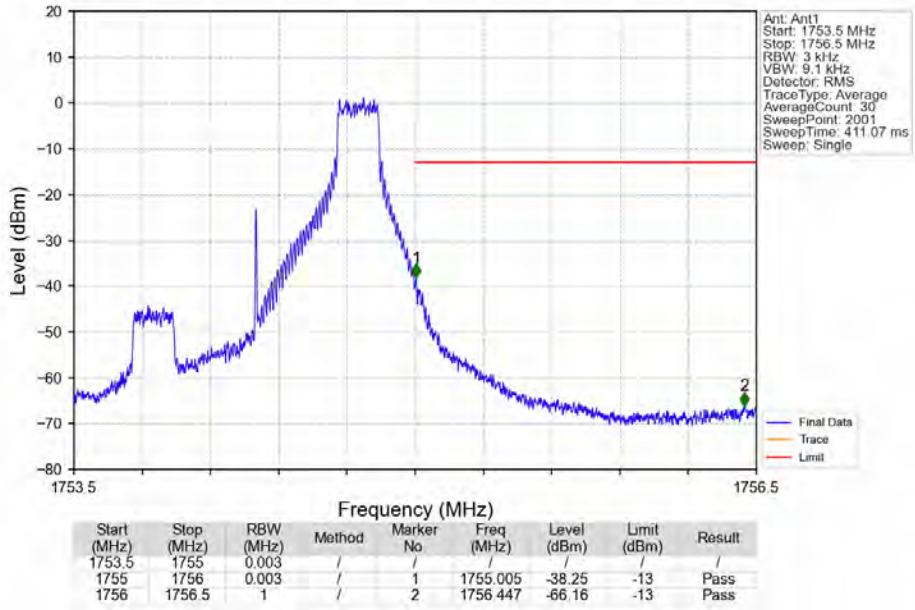
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_1\_0\_NTNV



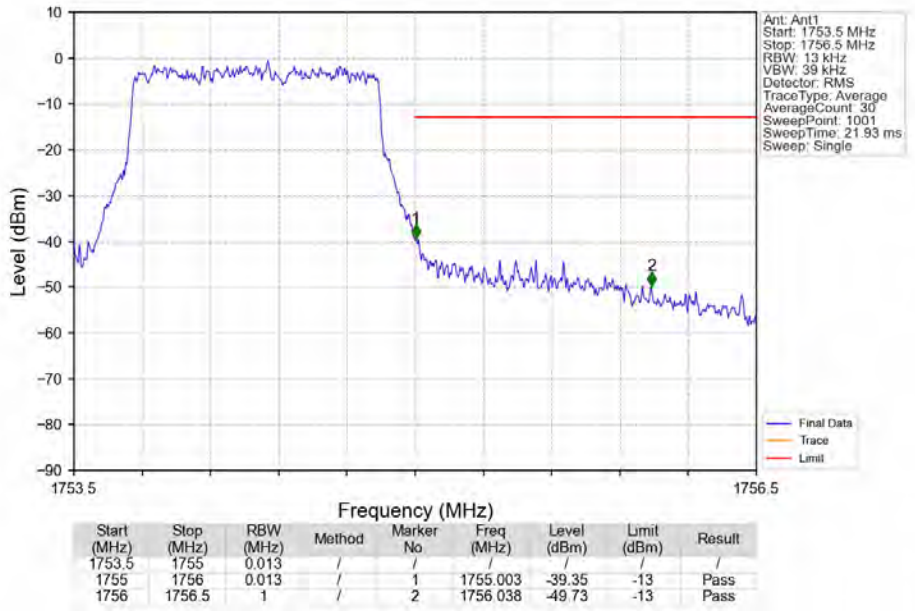
Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_1\_0\_NTNV



Band4\_1.4MHz\_16QAM\_HCH\_1754.3MHz\_RB\_1\_5\_NTNV



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



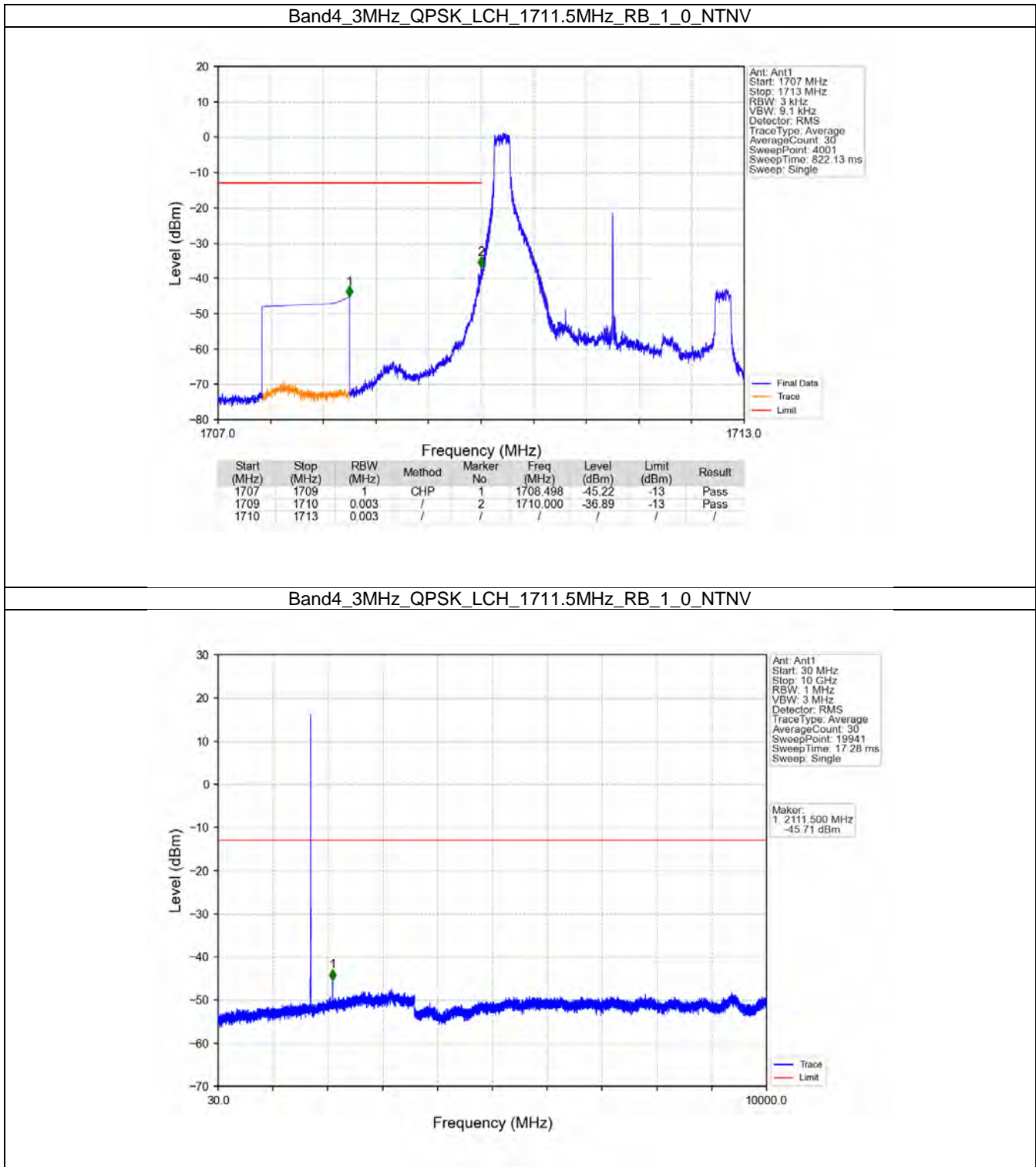


## 6.2 B4\_3MHz

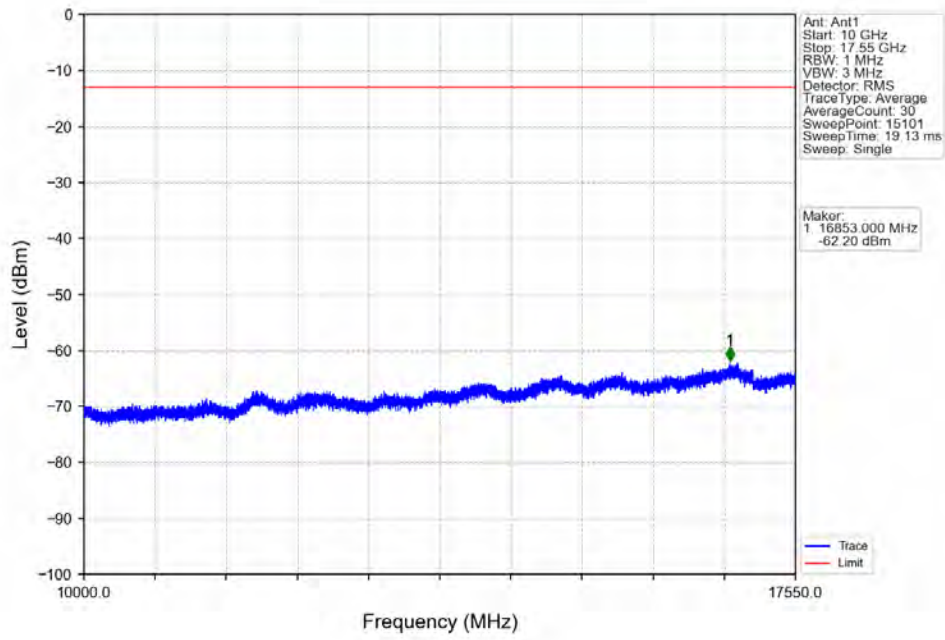
### 6.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		14	Refer To Test Graph		Pass	
		15	0	Refer To Test Graph		Pass
16QAM	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		14	Refer To Test Graph		Pass	
		15	0	Refer To Test Graph		Pass

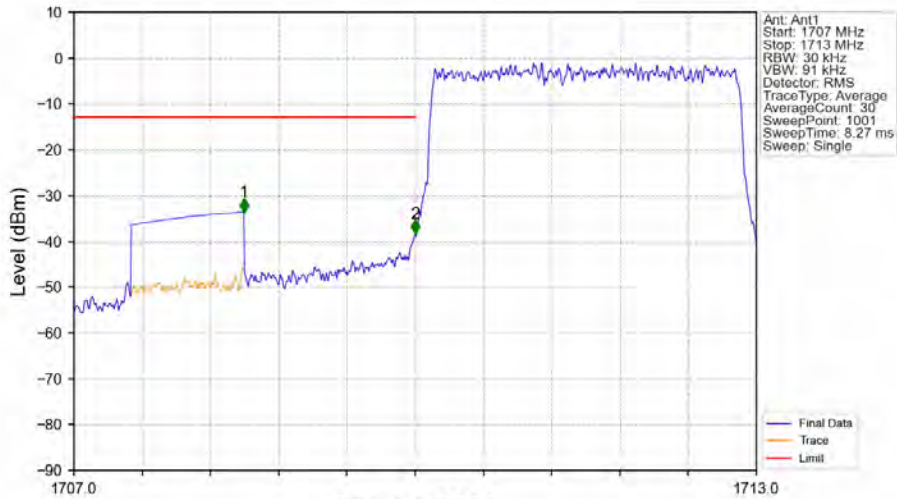
### 6.2.2 Test Graph



Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_1\_0\_NTNV

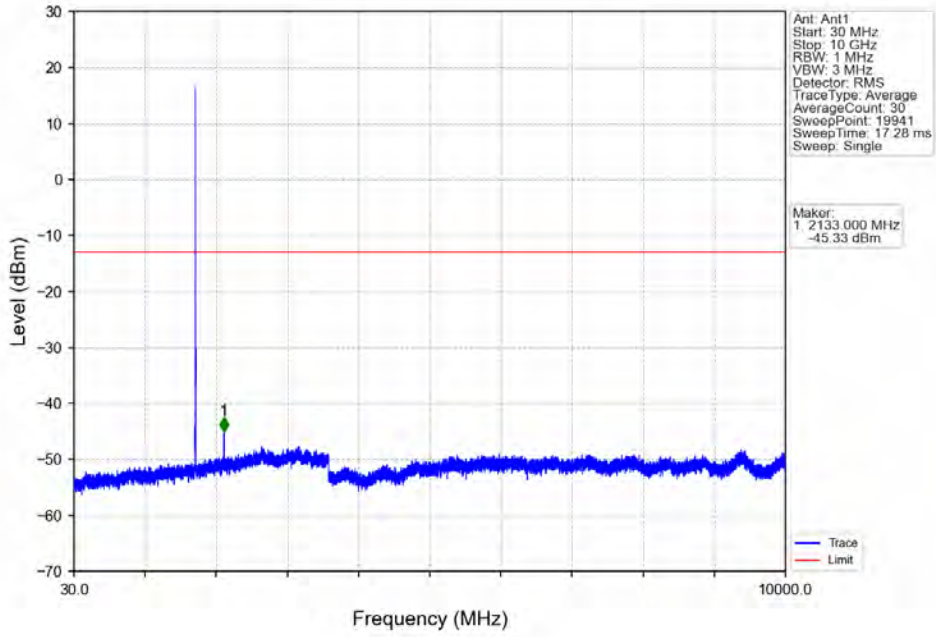


Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV

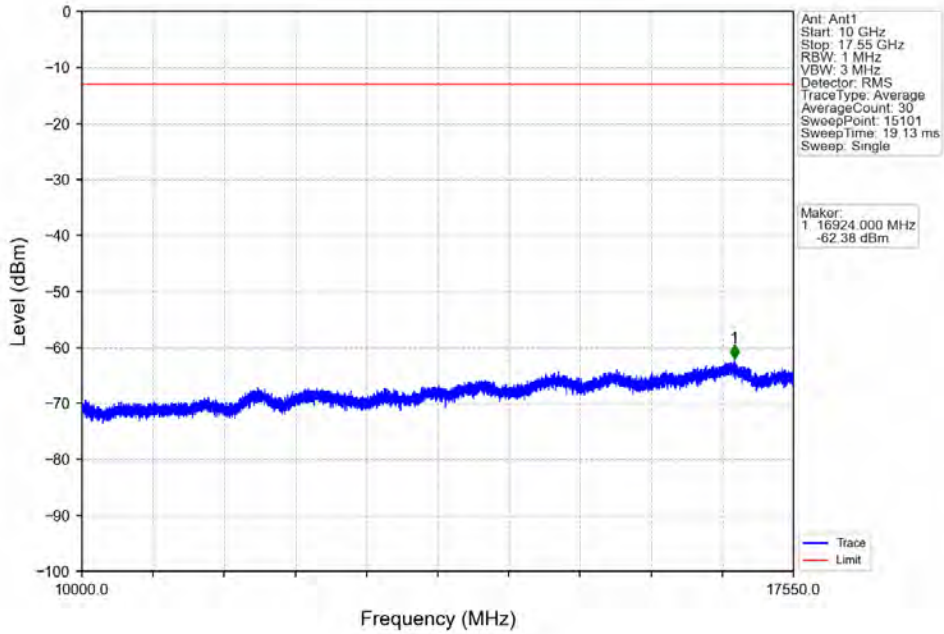


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-33.65	-13	Pass
1709	1710	0.03	/	2	1710.000	-38.28	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

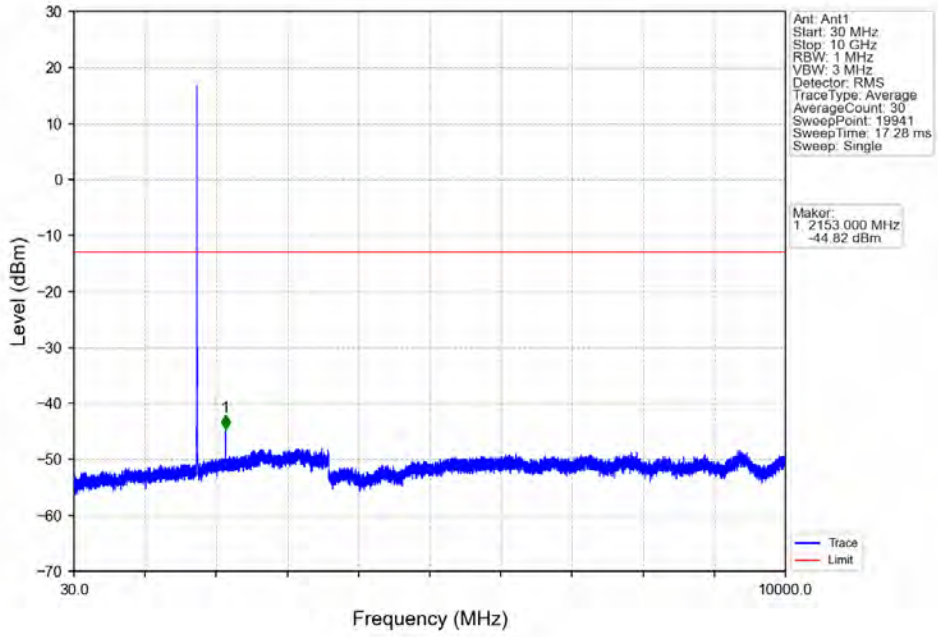
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



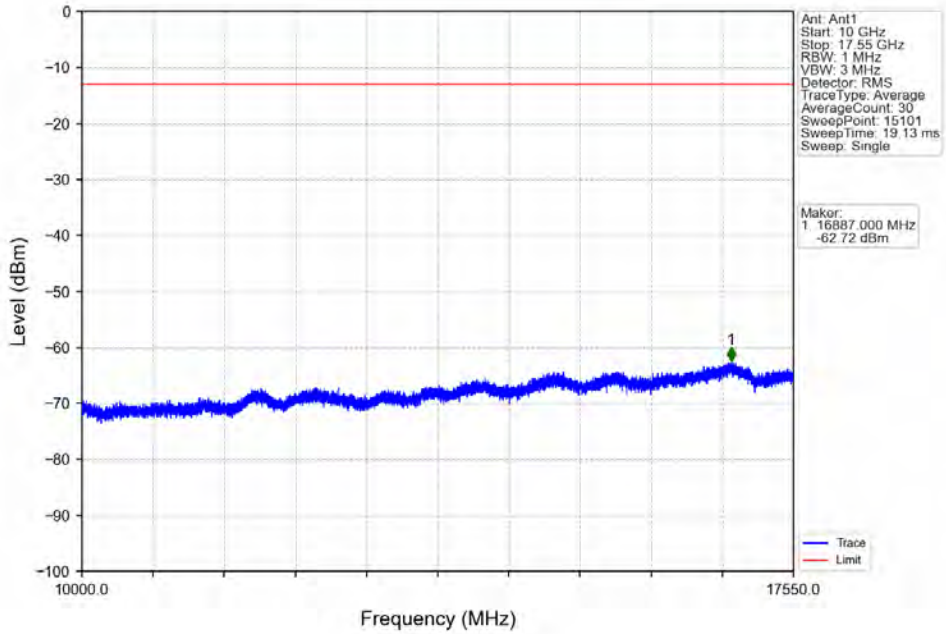
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



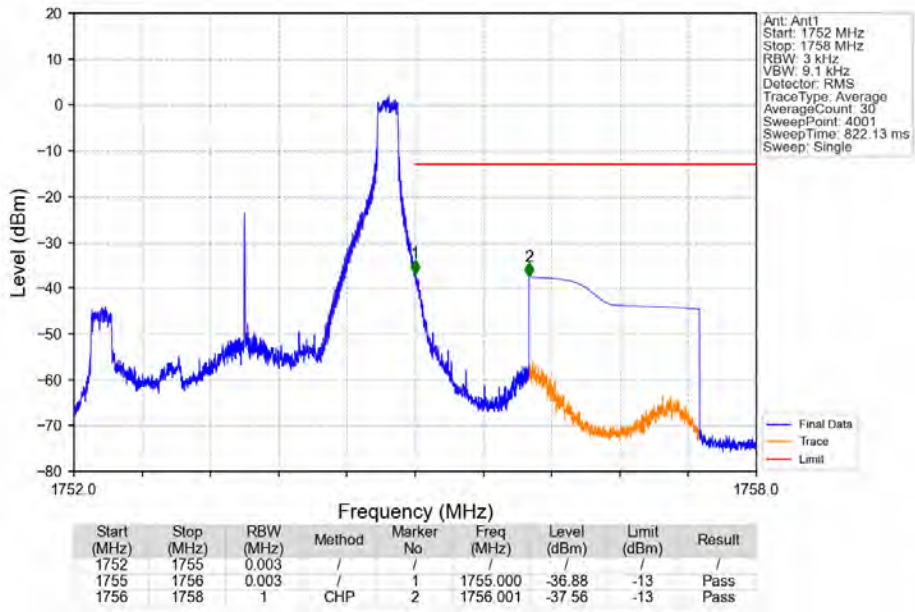
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_1\_0\_NTNV



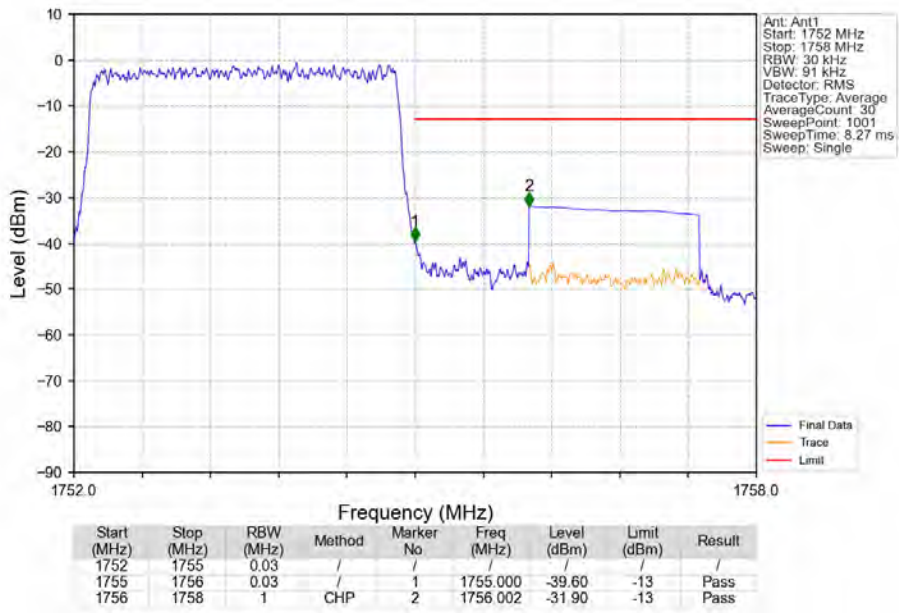
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_1\_0\_NTNV



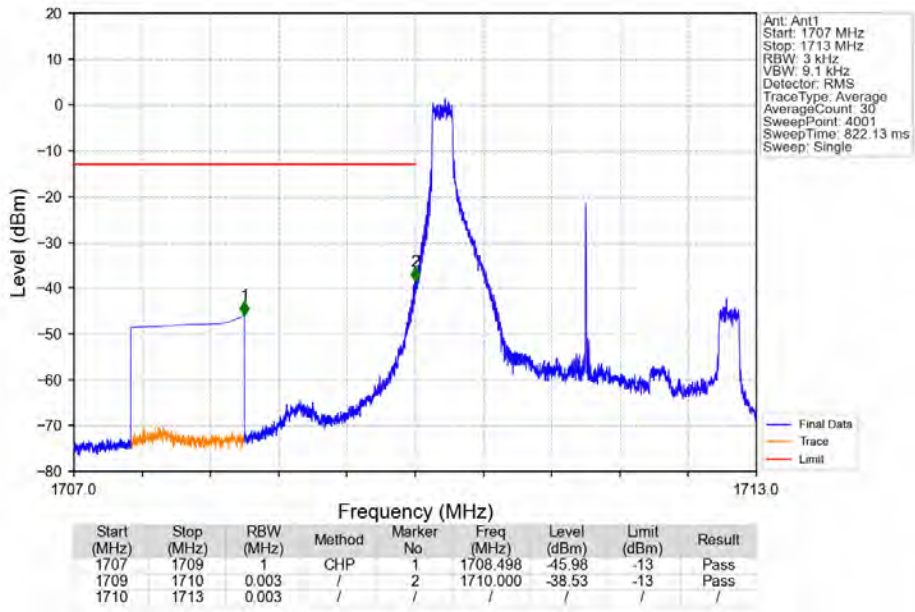
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_1\_14\_NTNV



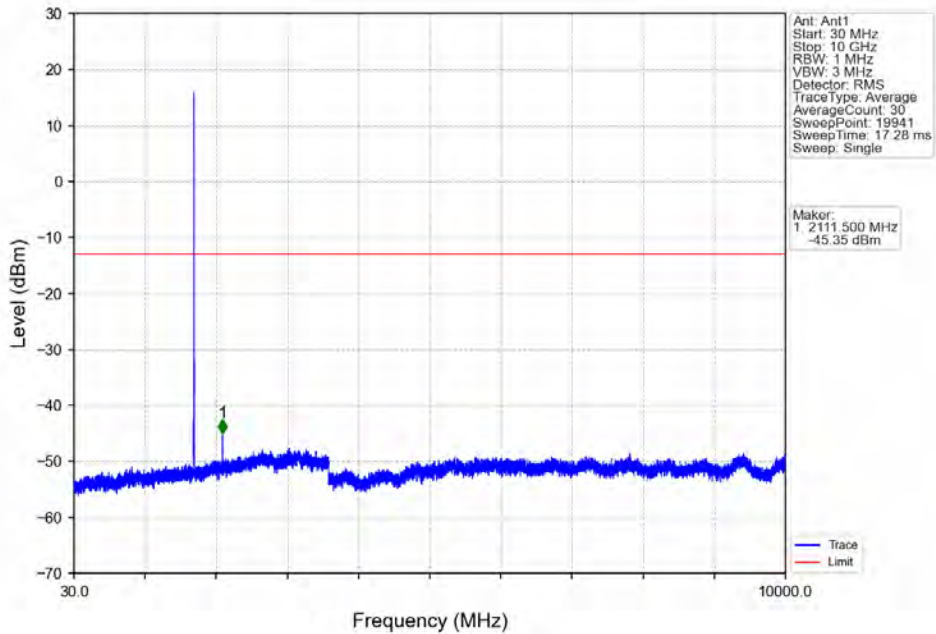
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



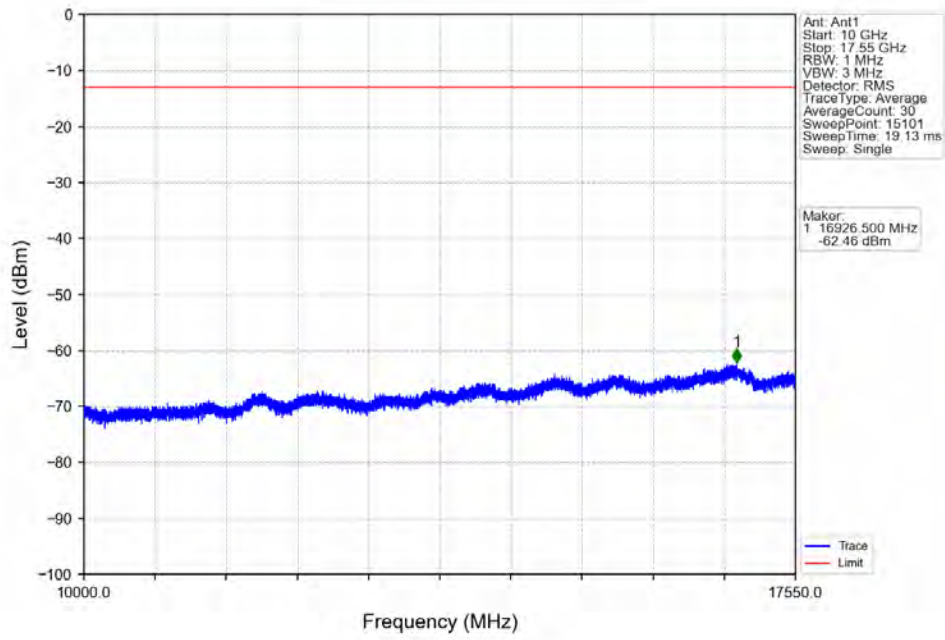
Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_1\_0\_NTNV



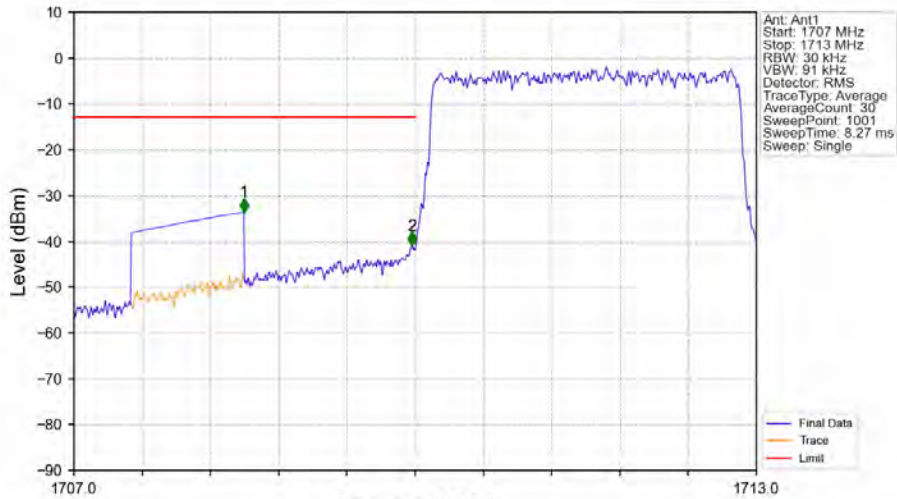
Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_1\_0\_NTNV



Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_1\_0\_NTNV



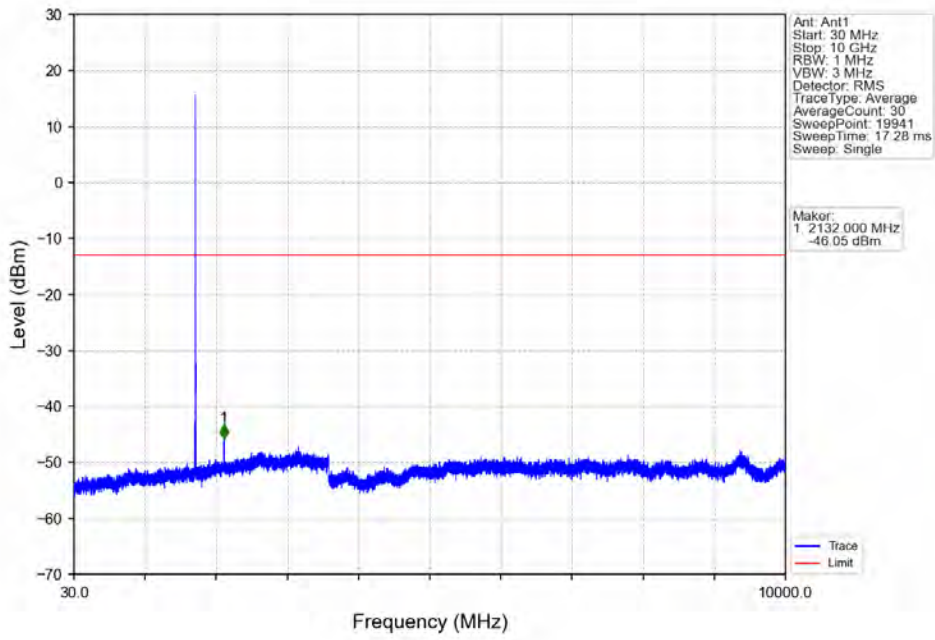
Band4\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



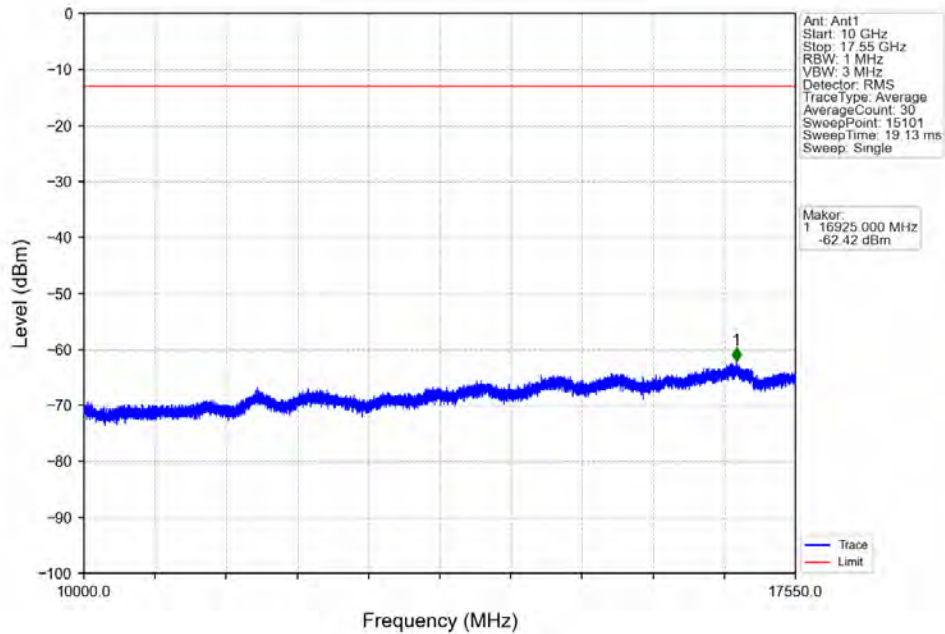
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-33.68	-13	Pass
1709	1710	0.03	/	2	1709.970	-41.00	-13	Pass
1710	1713	0.03	/	/	/	/	/	/



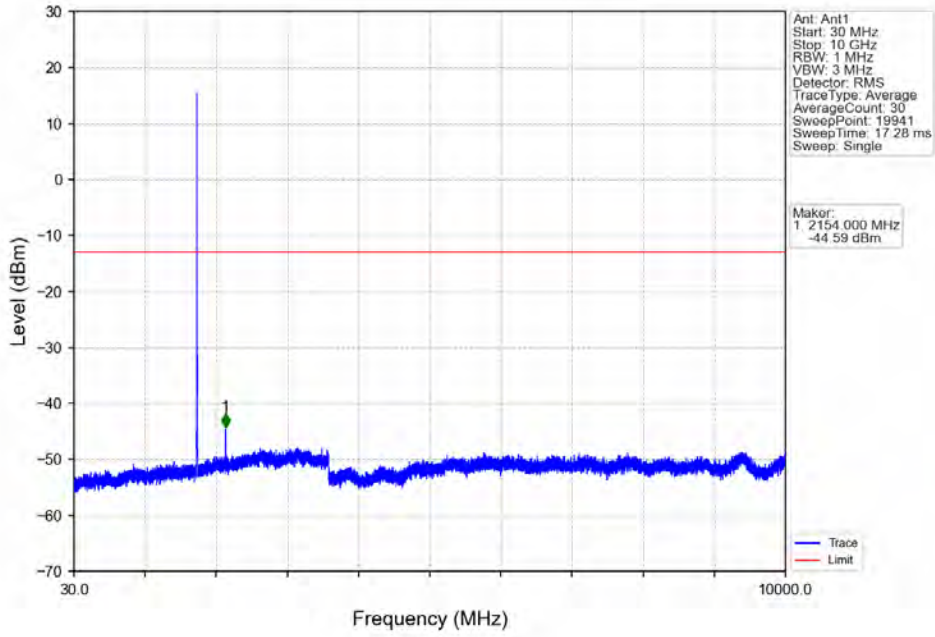
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



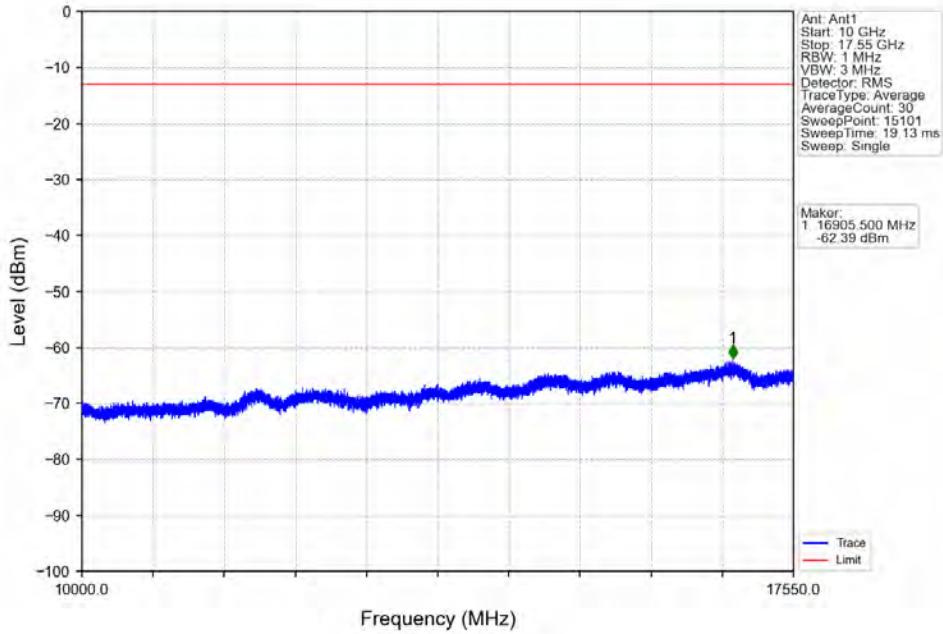
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



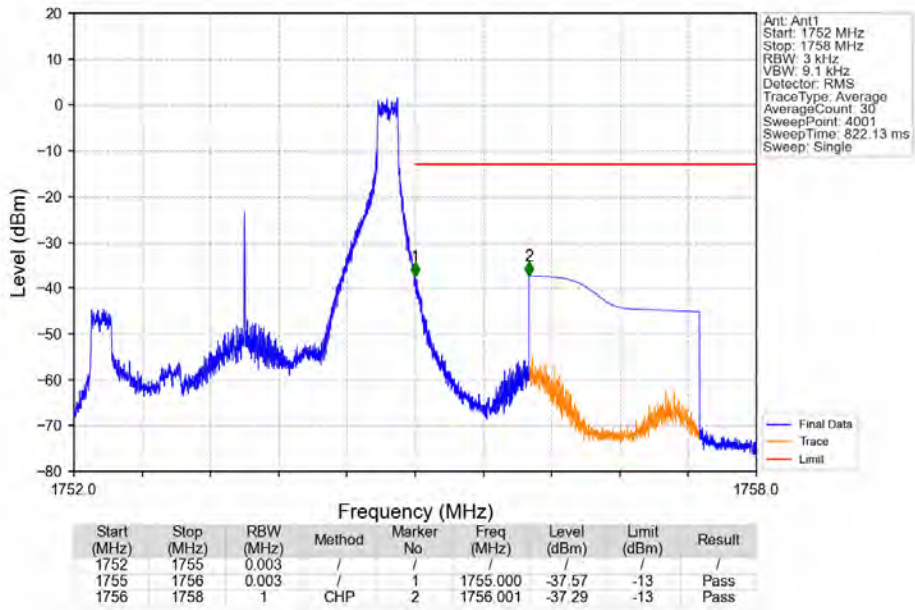
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_1\_0\_NTNV



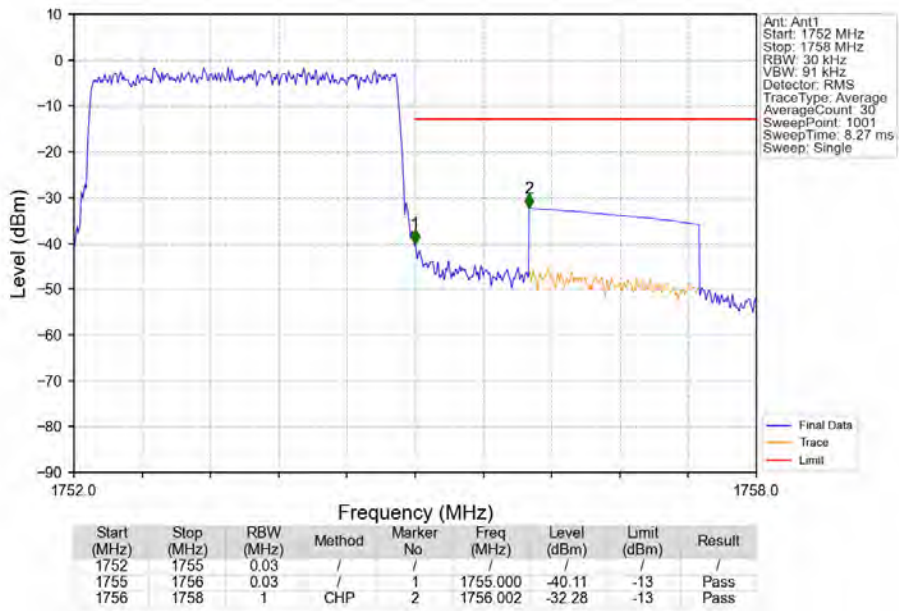
Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_1\_0\_NTNV



Band4\_3MHz\_16QAM\_HCH\_1753.5MHz\_RB\_1\_14\_NTV



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

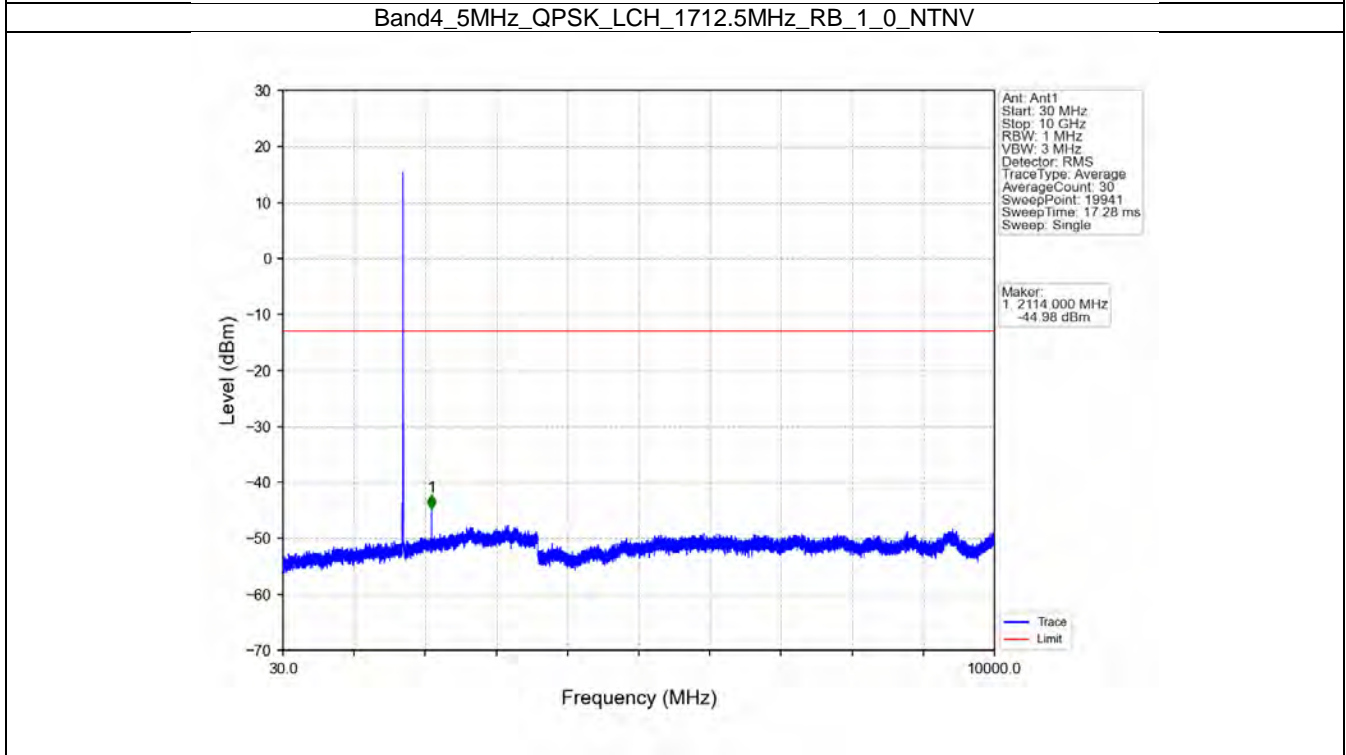
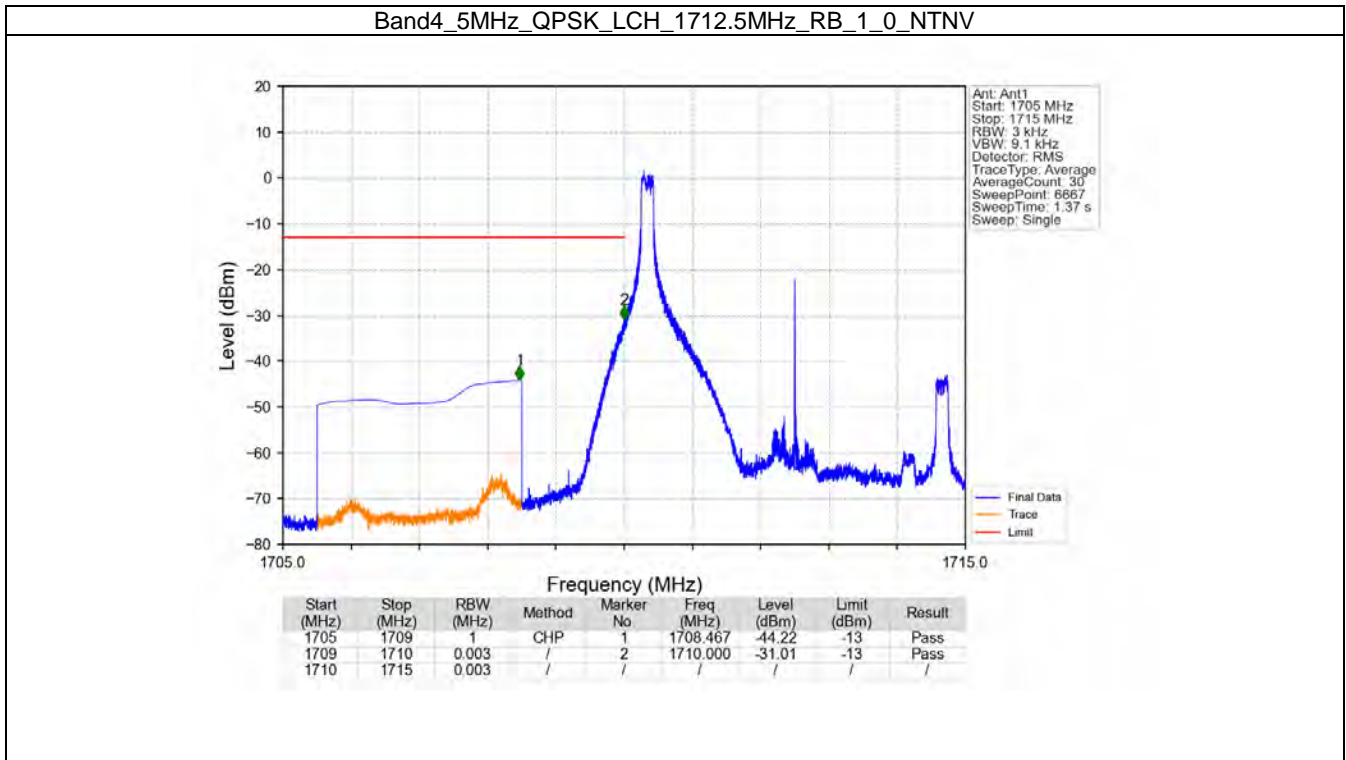


## 6.3 B4\_5MHz

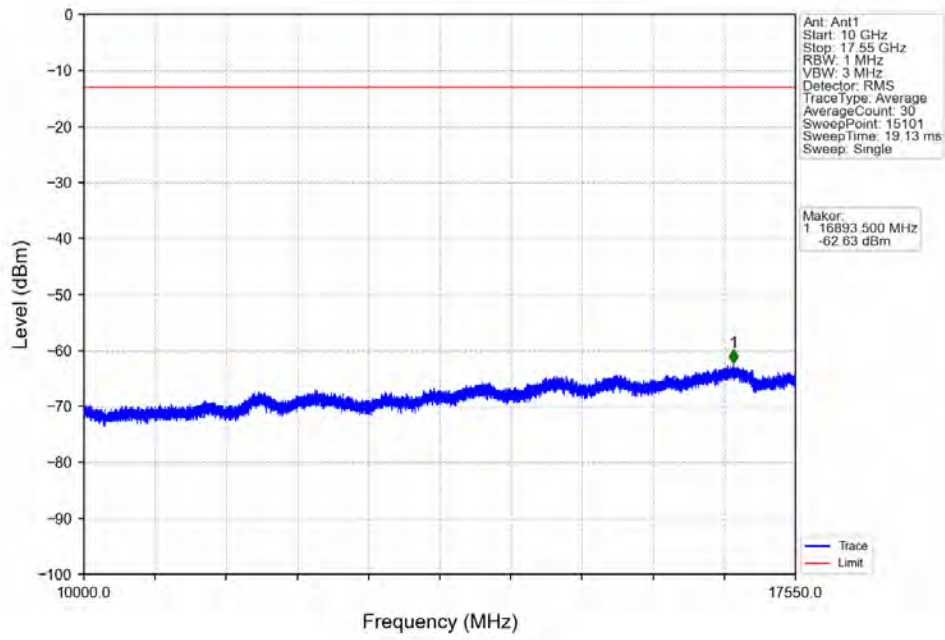
### 6.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass

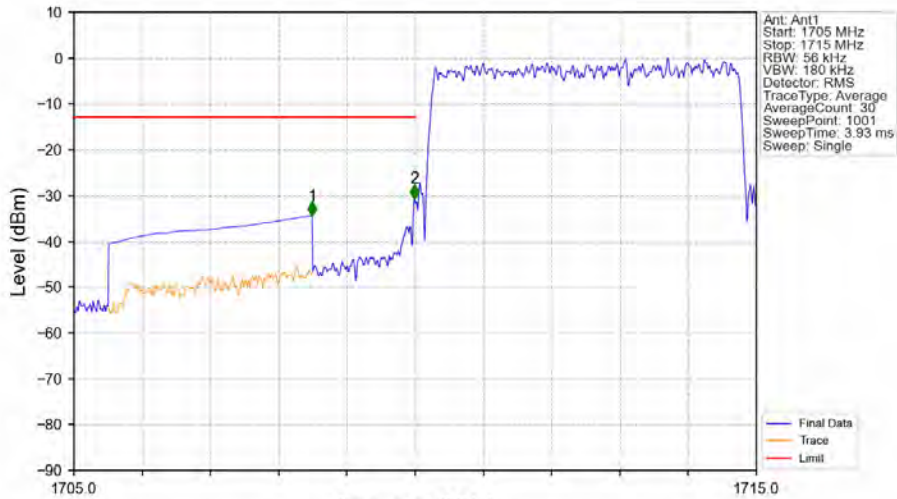
### 6.3.2 Test Graph



Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_1\_0\_NTNV

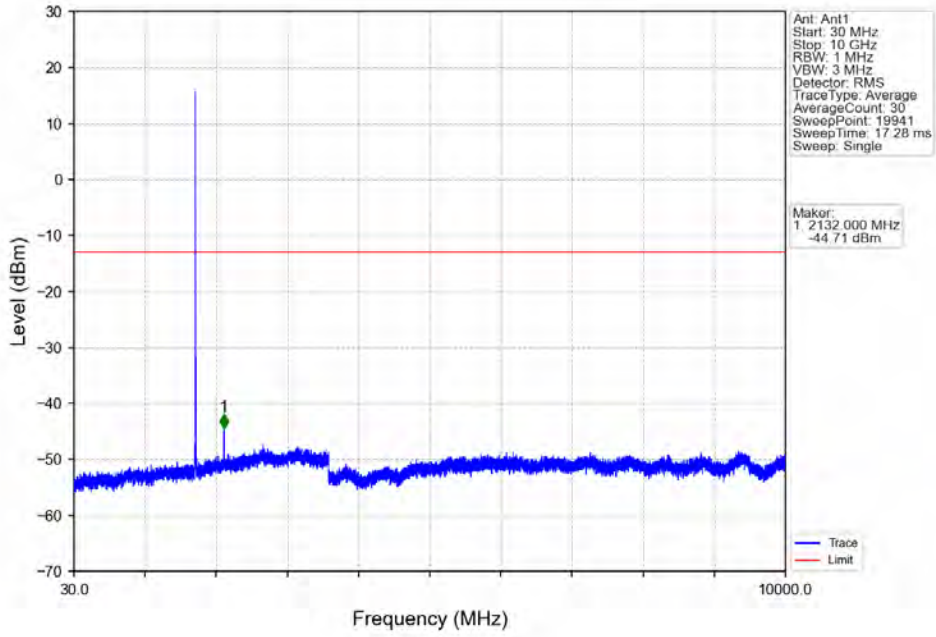


Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

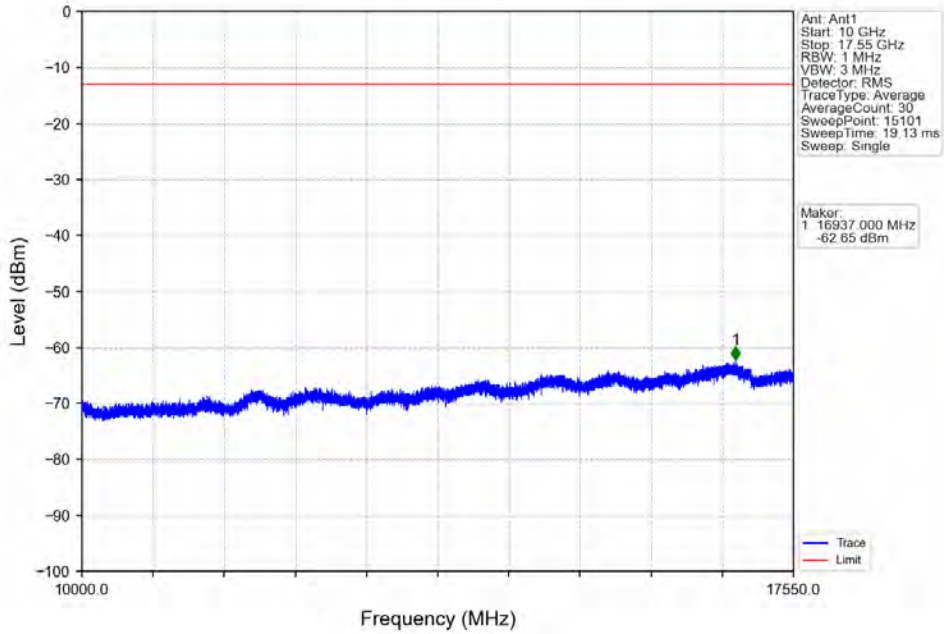


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.490	-34.44	-13	Pass
1709	1710	0.056	/	2	1709.990	-30.65	-13	Pass
1710	1715	0.056	/	/	/	/	/	/

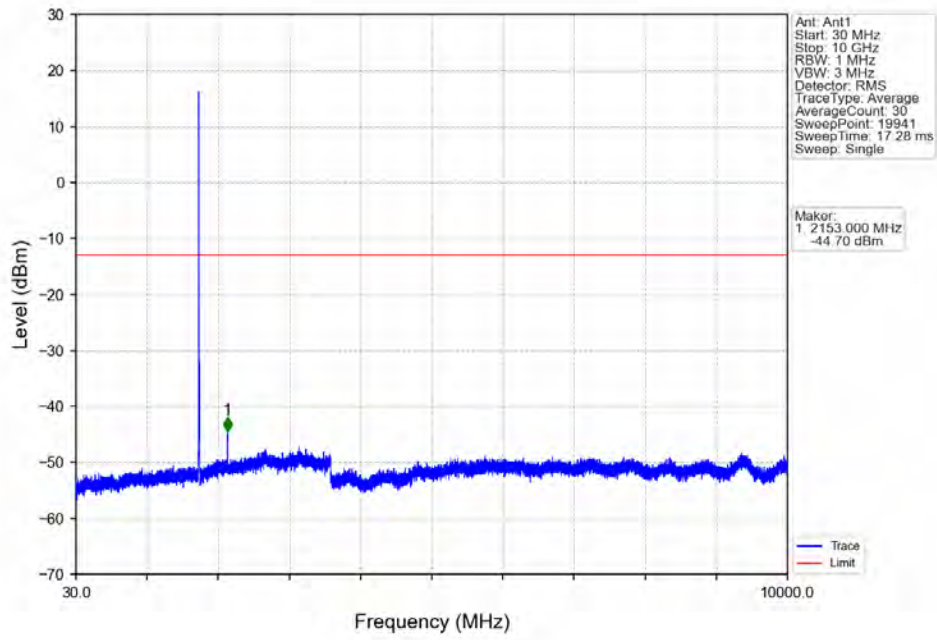
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



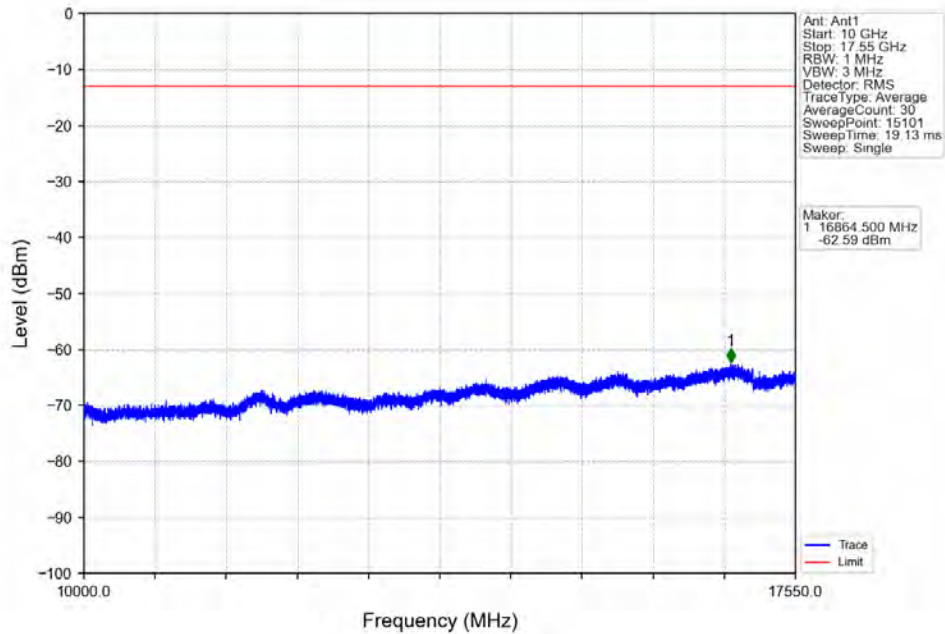
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_1\_0\_NTNV

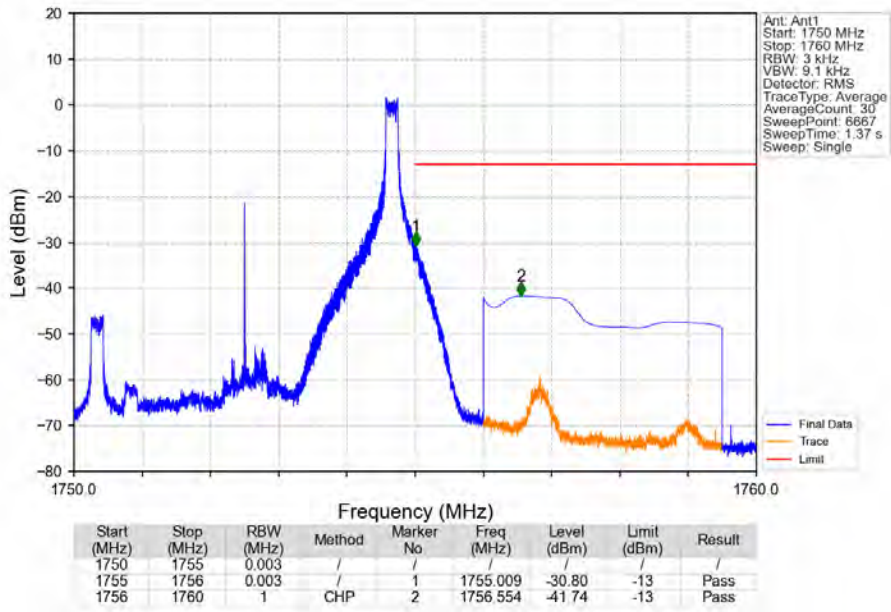


Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_1\_0\_NTNV

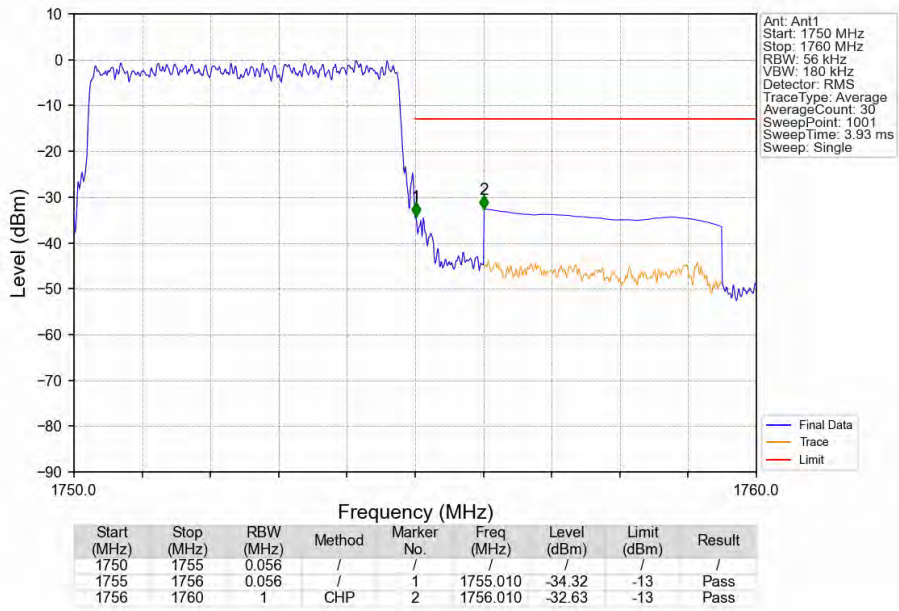




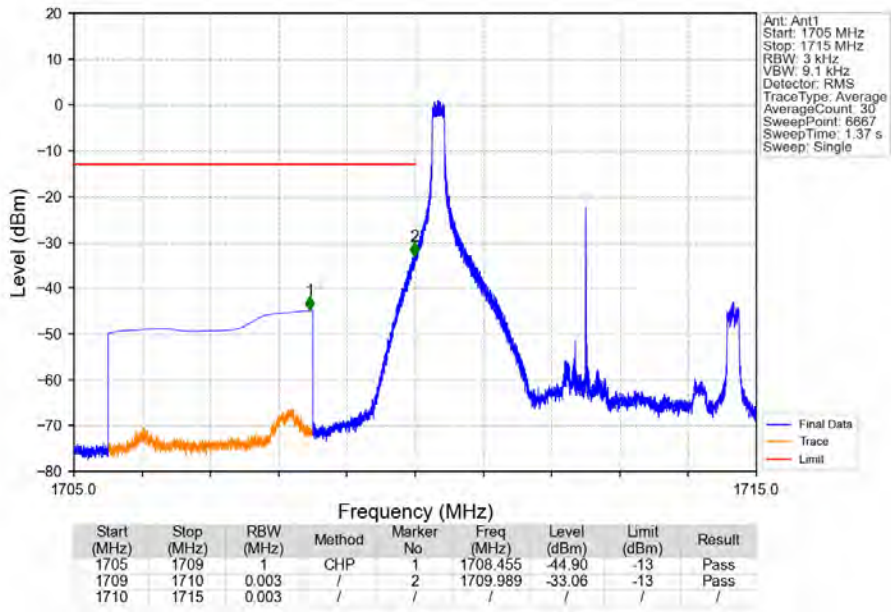
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_1\_24\_NTNV



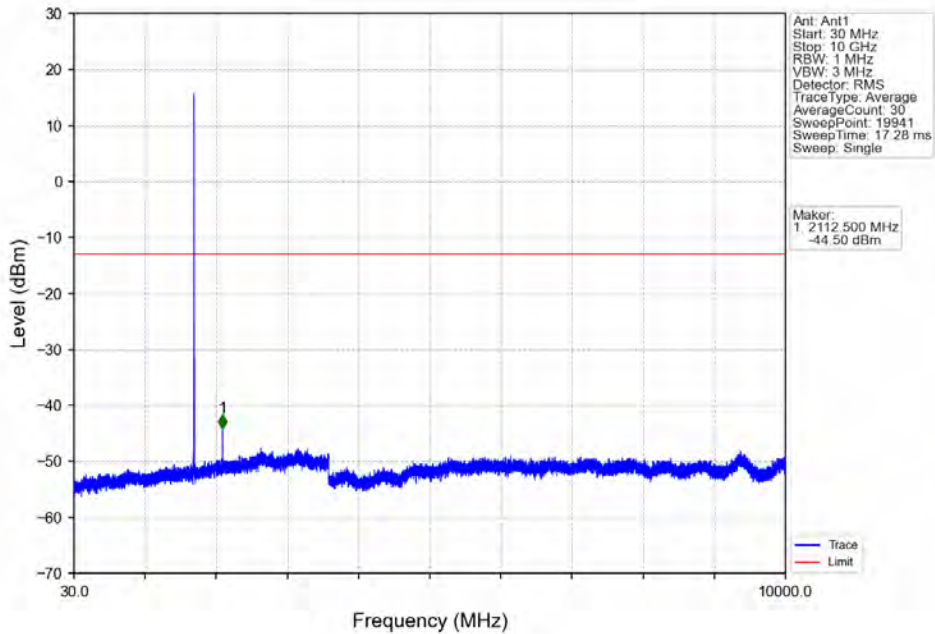
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



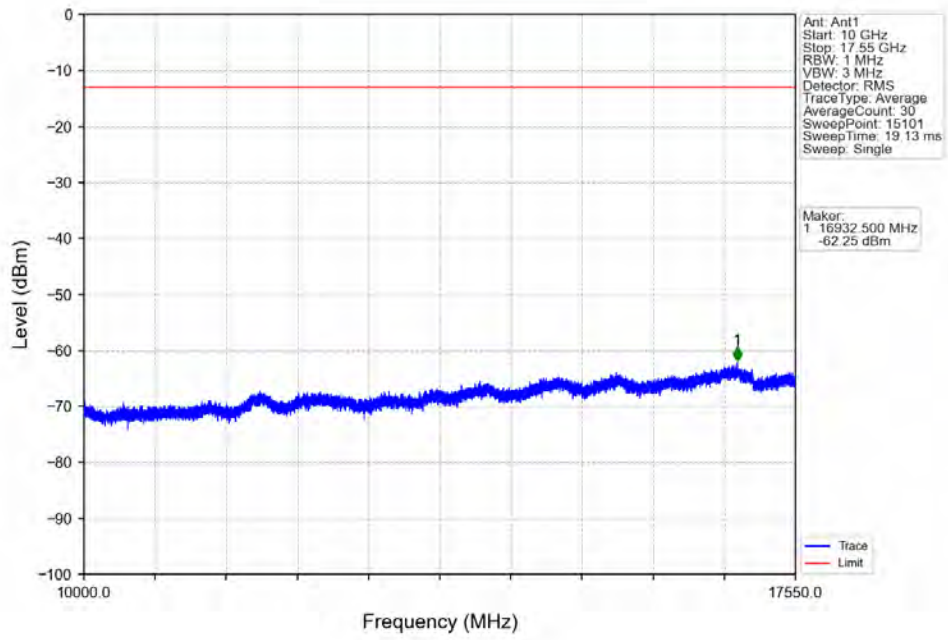
Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_1\_0\_NTNV



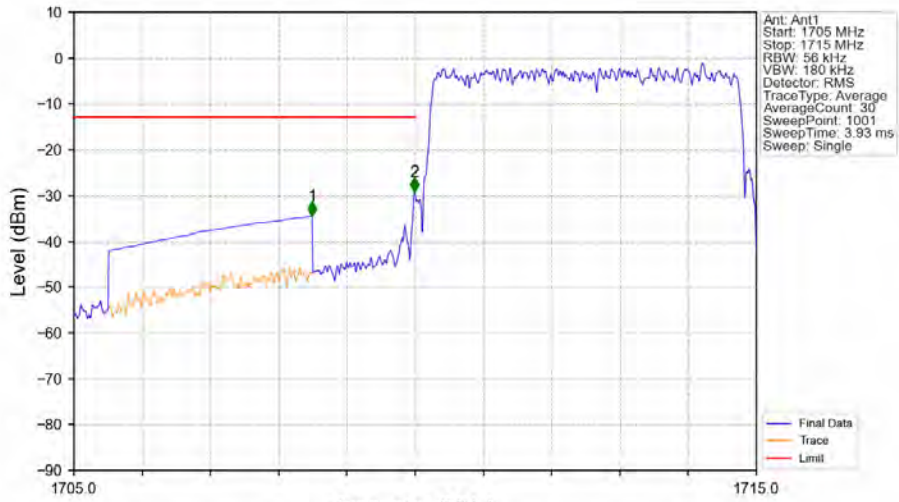
Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_1\_0\_NTNV



Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_1\_0\_NTNV

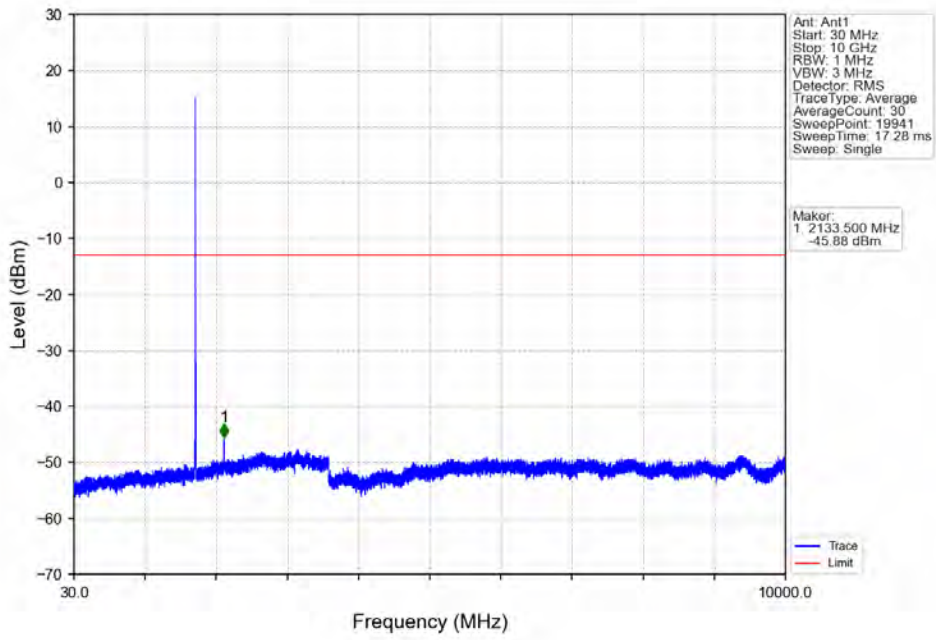


Band4\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

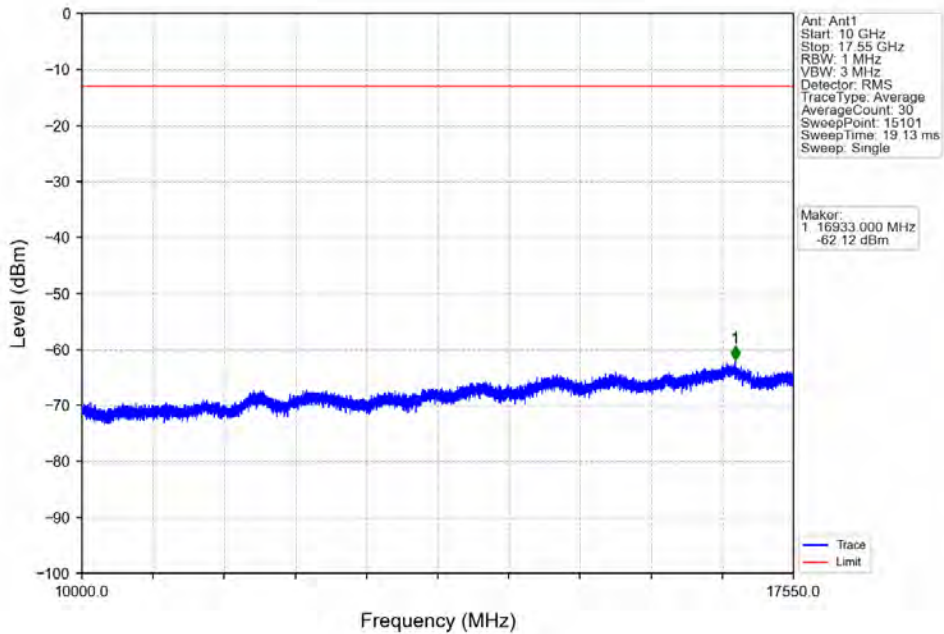


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.490	-34.51	-13	Pass
1709	1710	0.056	/	2	1709.990	-29.21	-13	Pass
1710	1715	0.056	/	/	/	/	/	/

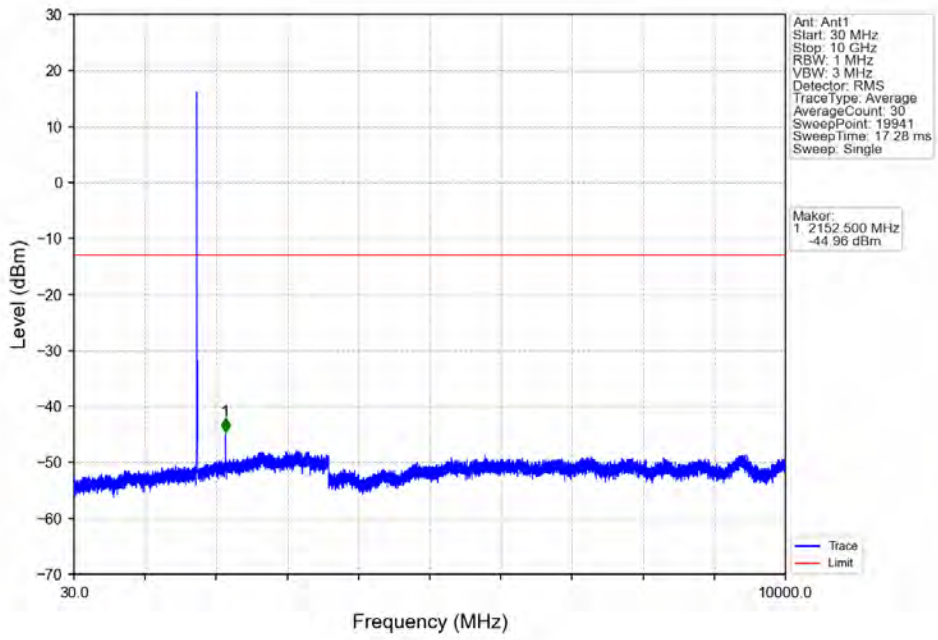
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



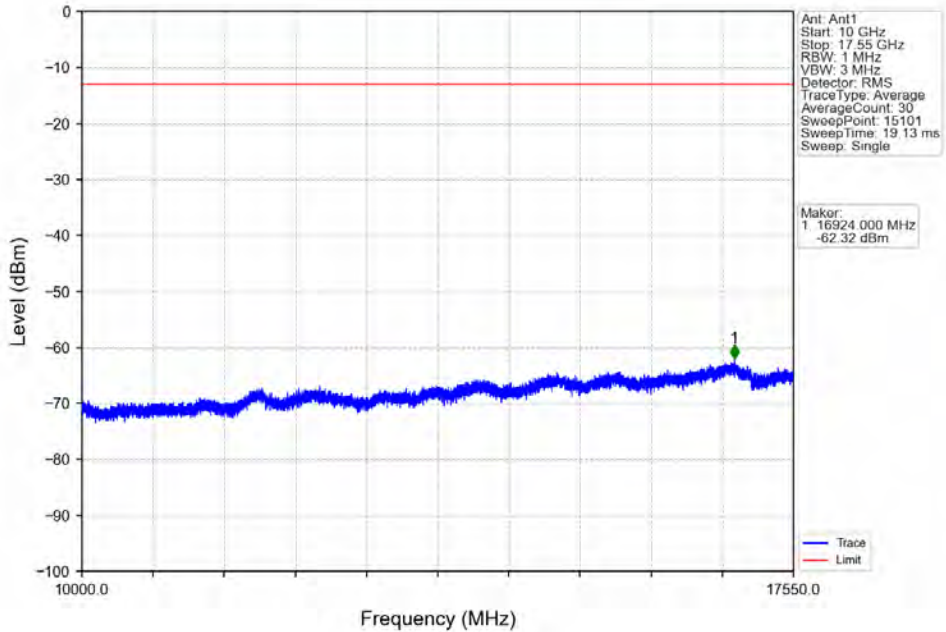
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



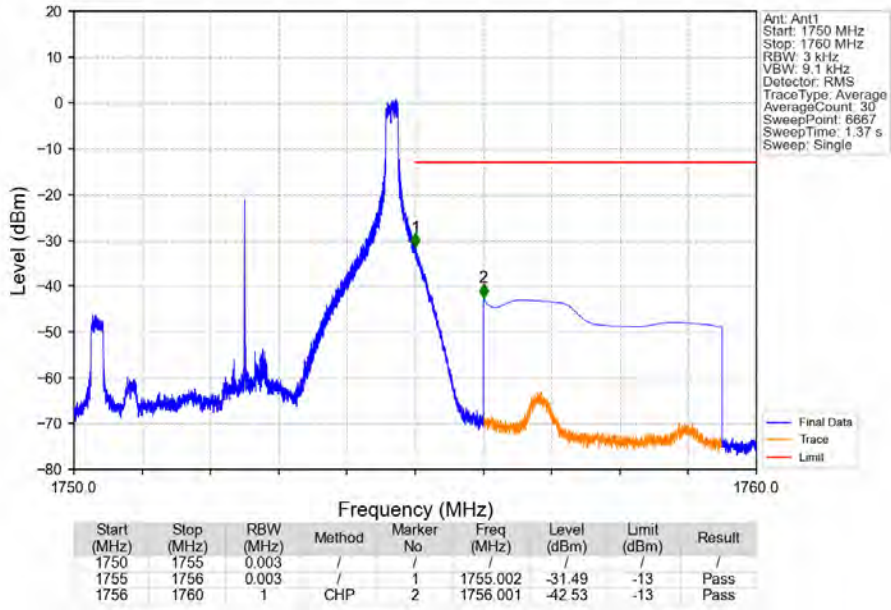
Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_1\_0\_NTNV



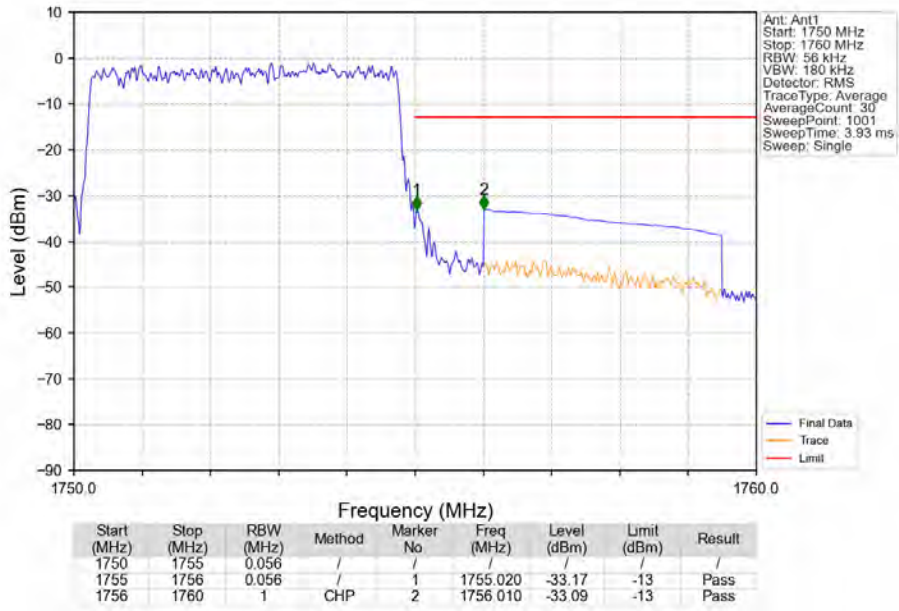
Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_1\_0\_NTNV



Band4\_5MHz\_16QAM\_HCH\_1752.5MHz\_RB\_1\_24\_NTNV



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

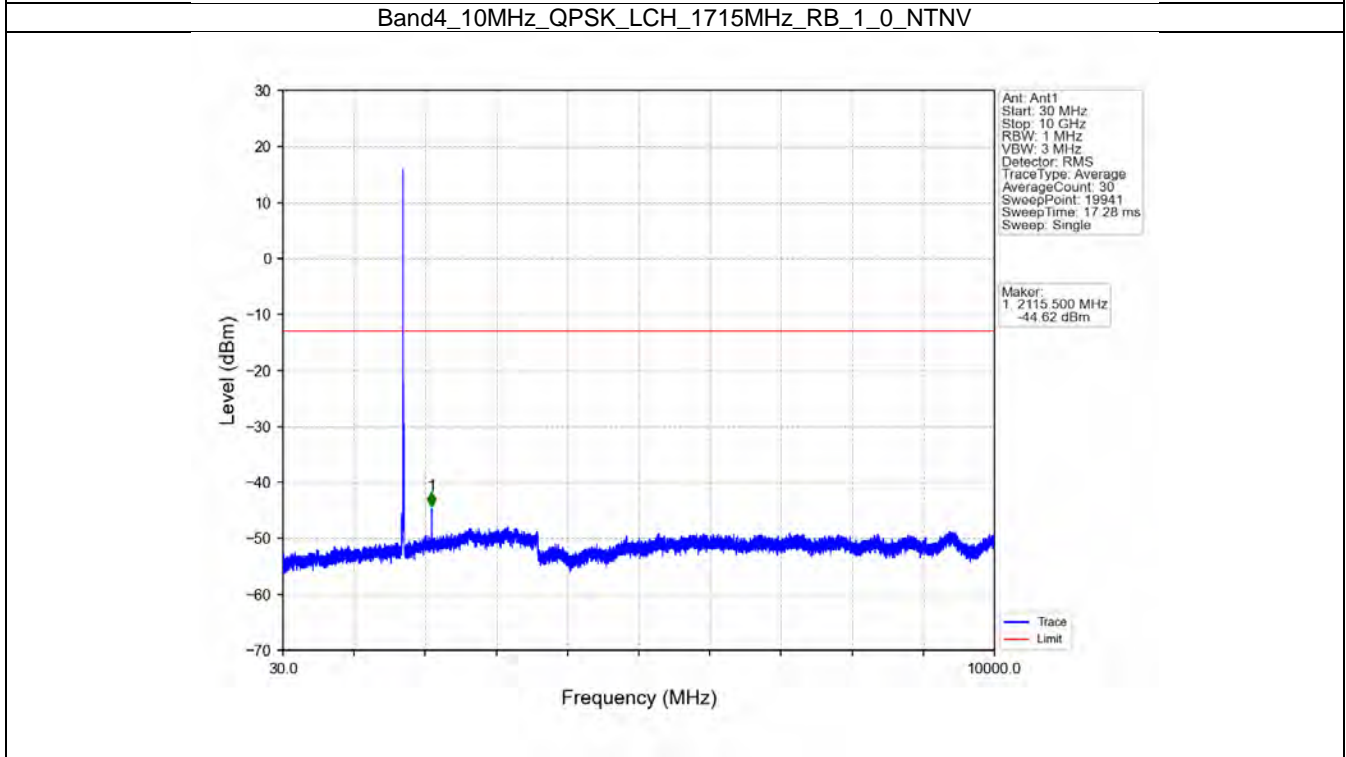
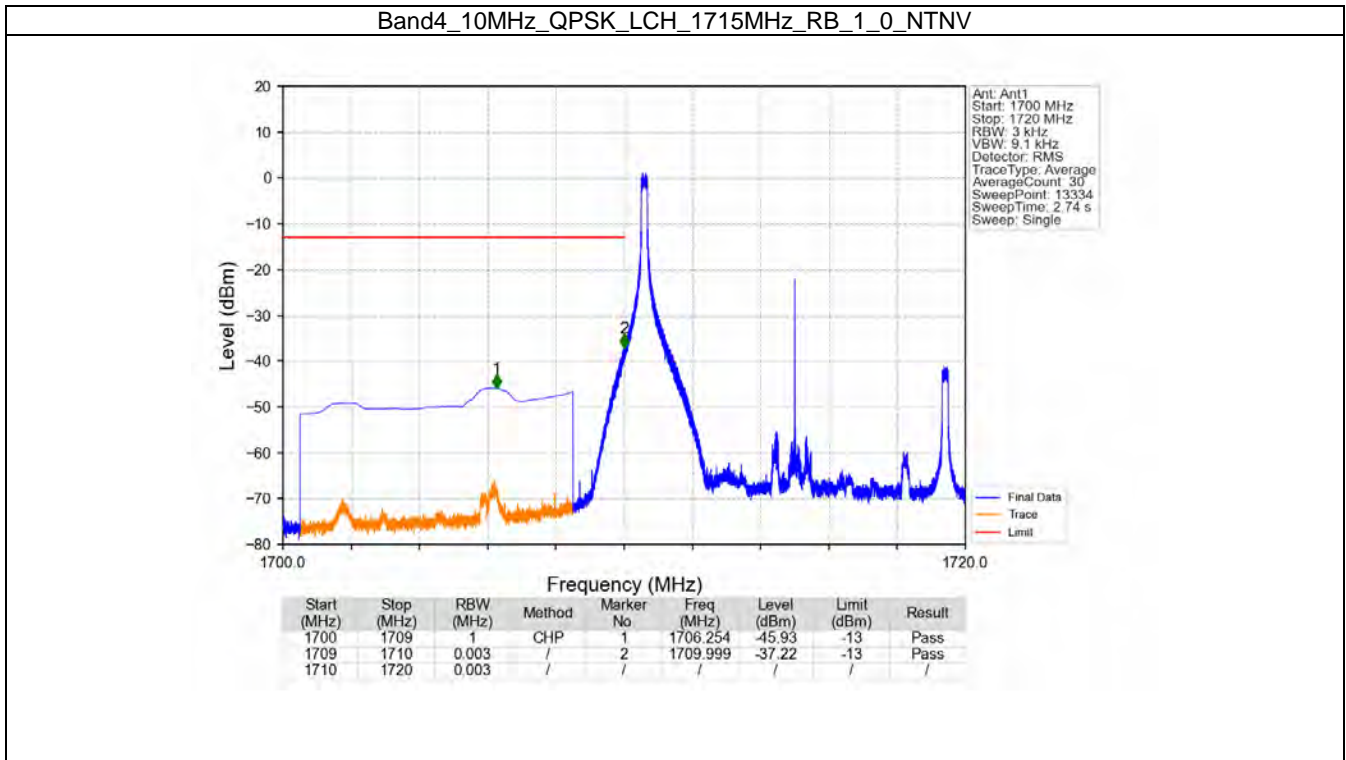


## 6.4 B4\_10MHz

### 6.4.1 Test Result

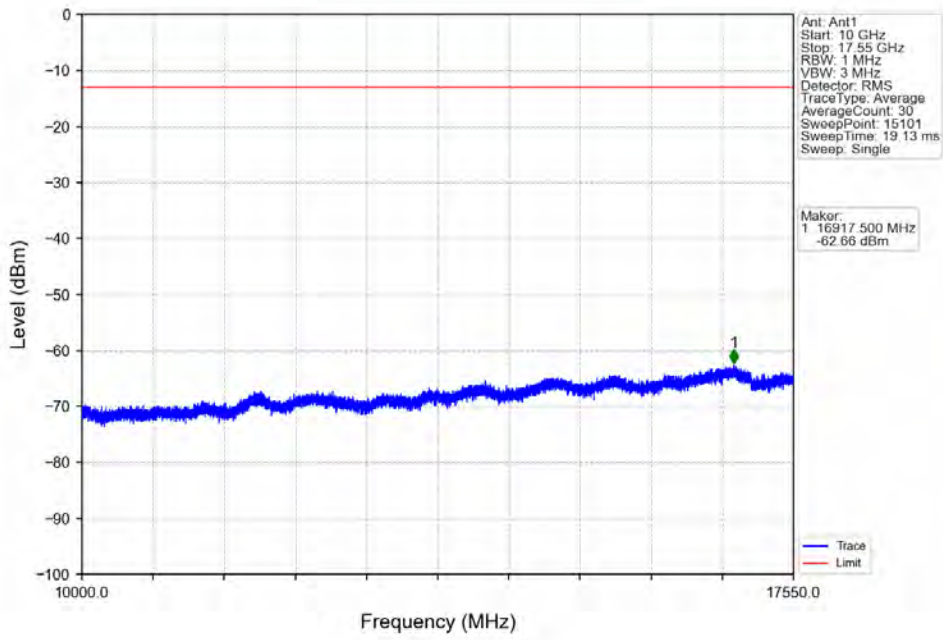
Band: 4 / Bandwidth: 10MHz / NTV							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1715	1	0	Refer To Test Graph		Pass	
		50	0	Refer To Test Graph		Pass	
	1750	1732.5	1	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
		50	49	Refer To Test Graph		Pass	
			0	Refer To Test Graph		Pass	
16QAM	1715	1	0	Refer To Test Graph		Pass	
		50	0	Refer To Test Graph		Pass	
	1750	1732.5	1	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
		50	49	Refer To Test Graph		Pass	
			0	Refer To Test Graph		Pass	

### 6.4.2 Test Graph

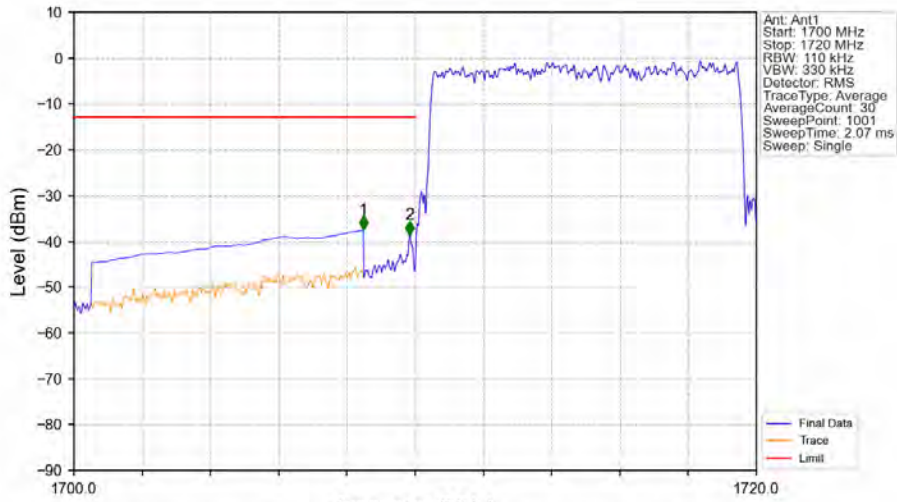




Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_1\_0\_NTNV

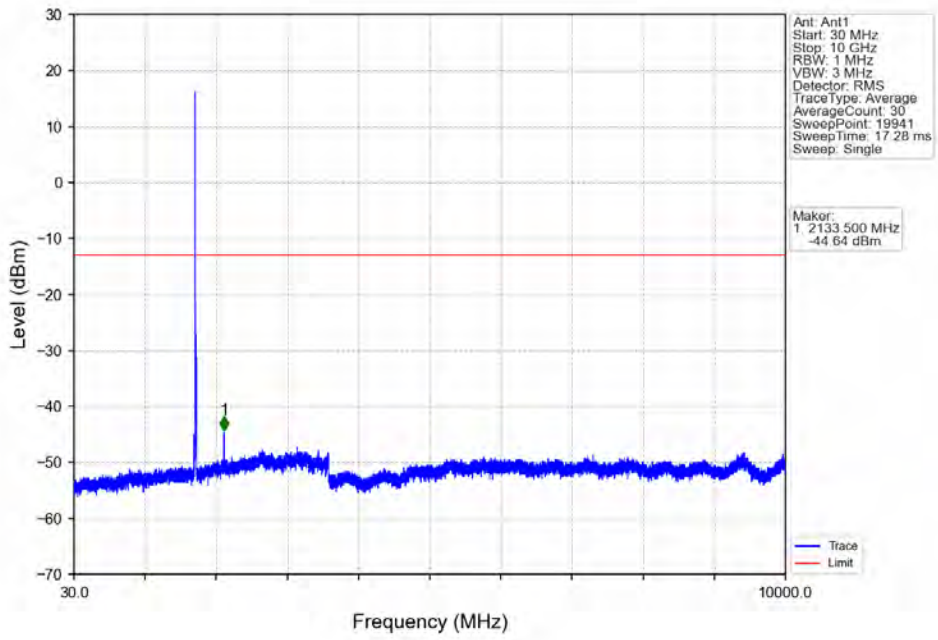


Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV

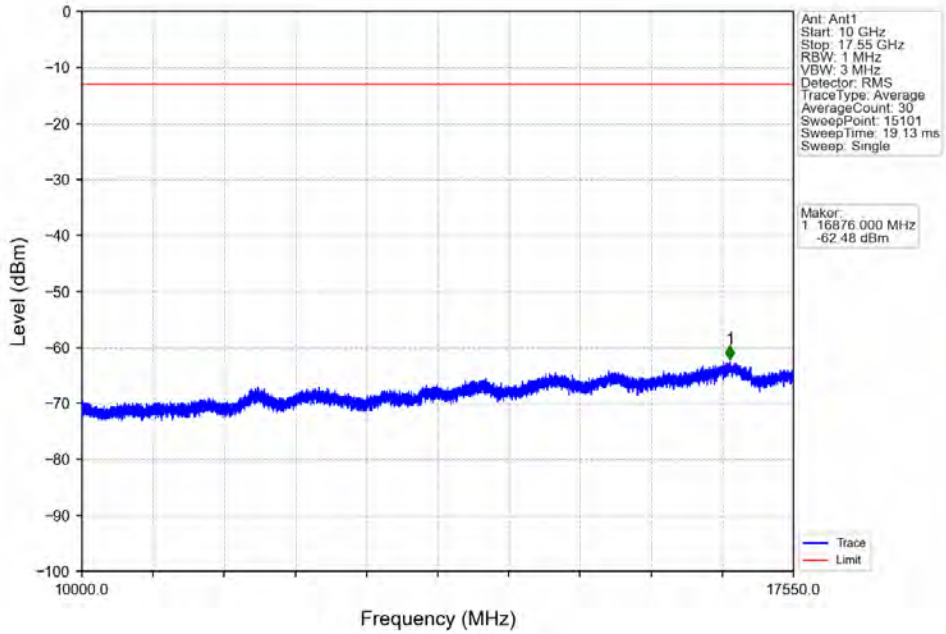


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.480	-37.51	-13	Pass
1709	1710	0.11	/	2	1709.840	-38.60	-13	Pass
1710	1720	0.11	/	/	/	/	/	/

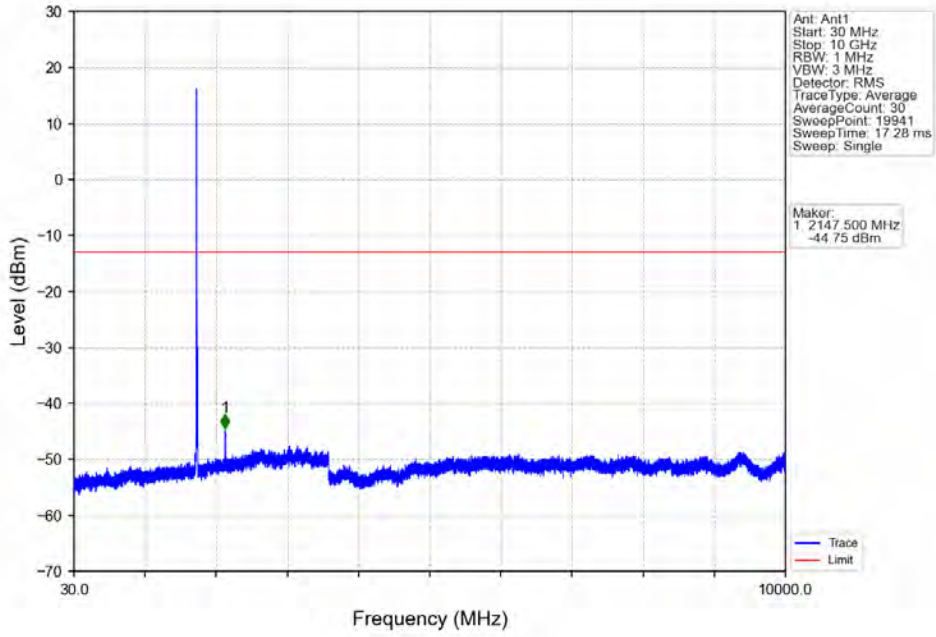
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



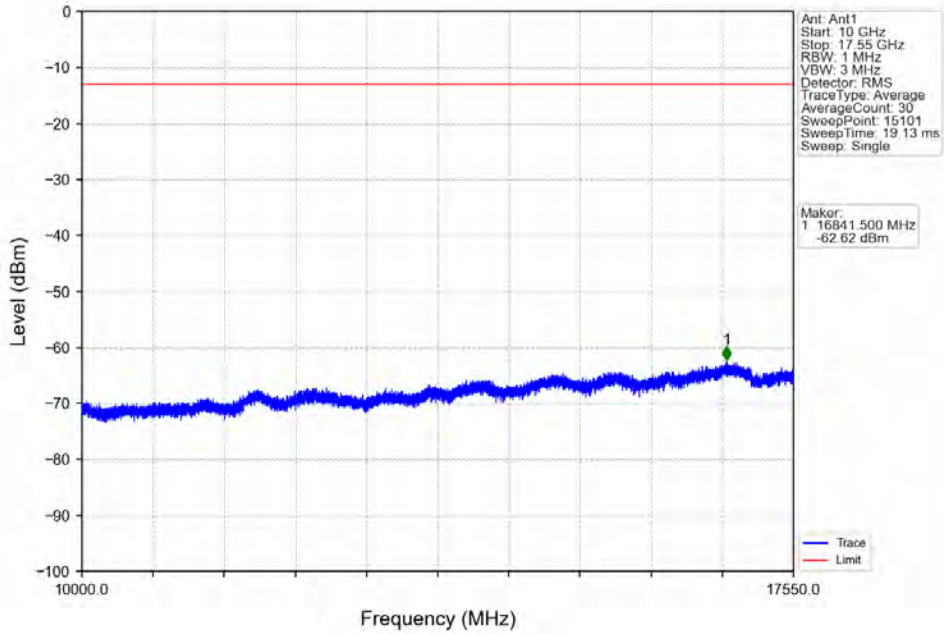
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



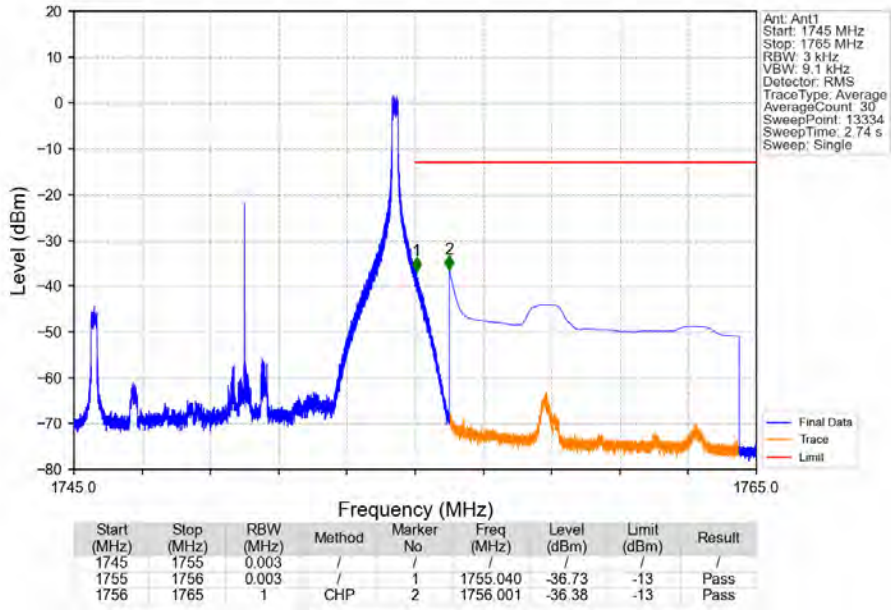
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_1\_0\_NTNV



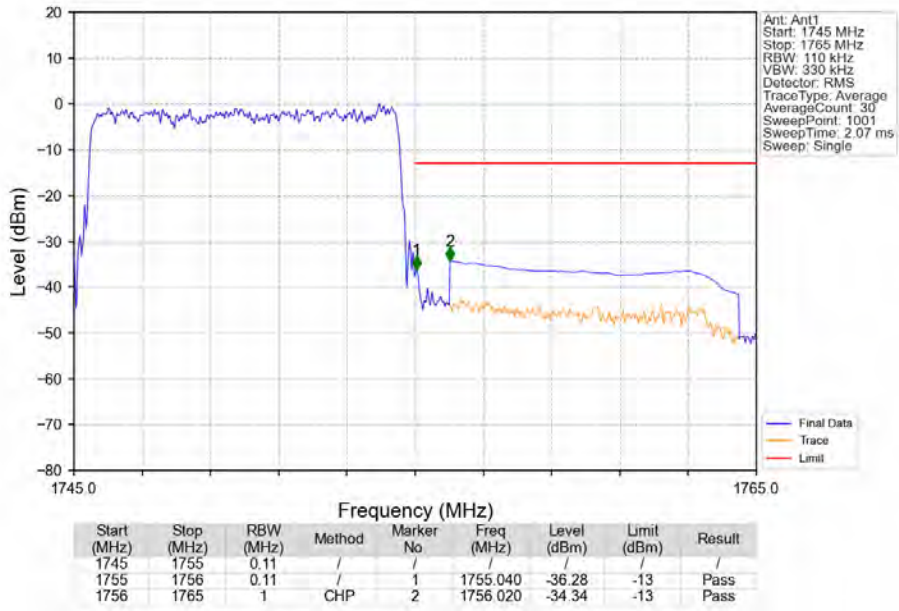
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_1\_0\_NTNV



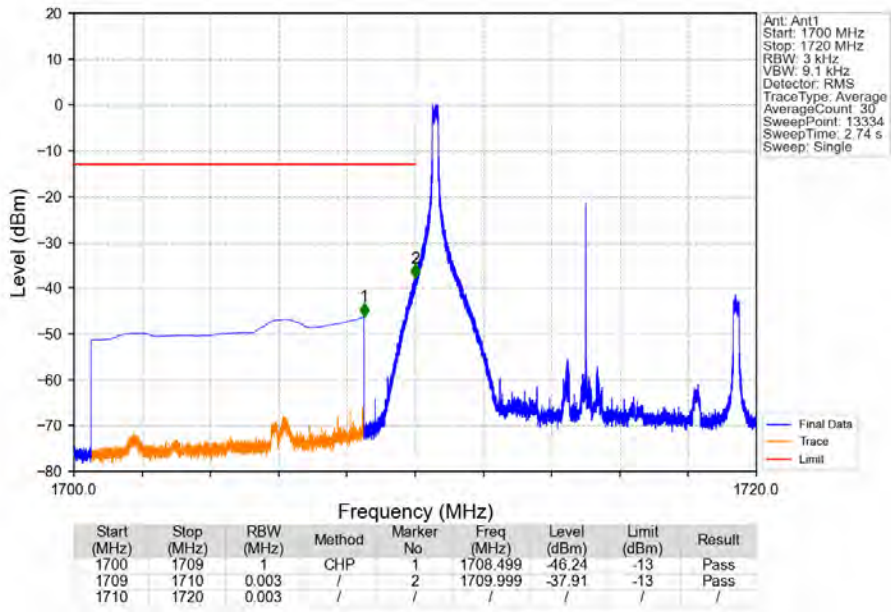
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_1\_49\_NTNV



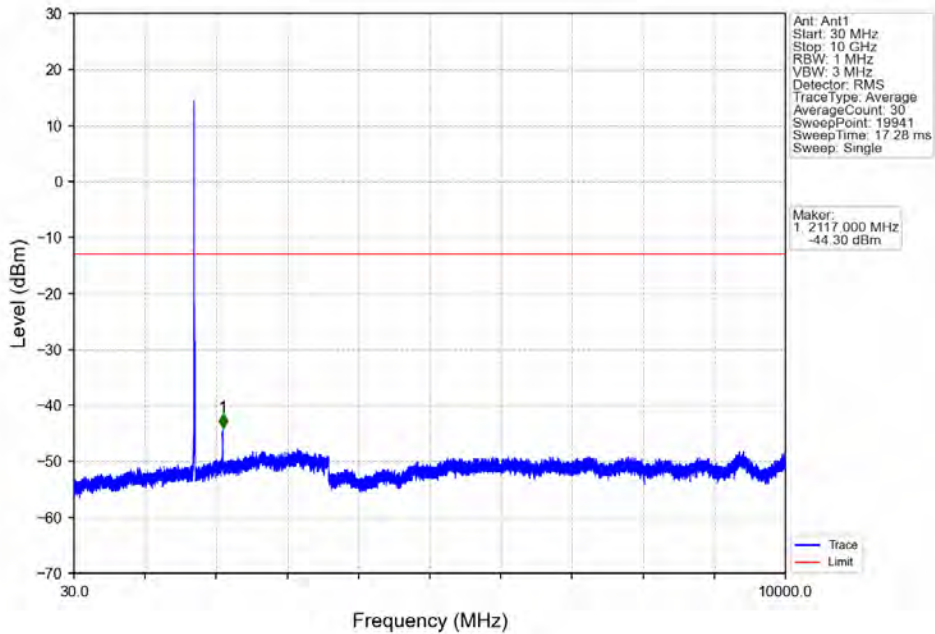
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



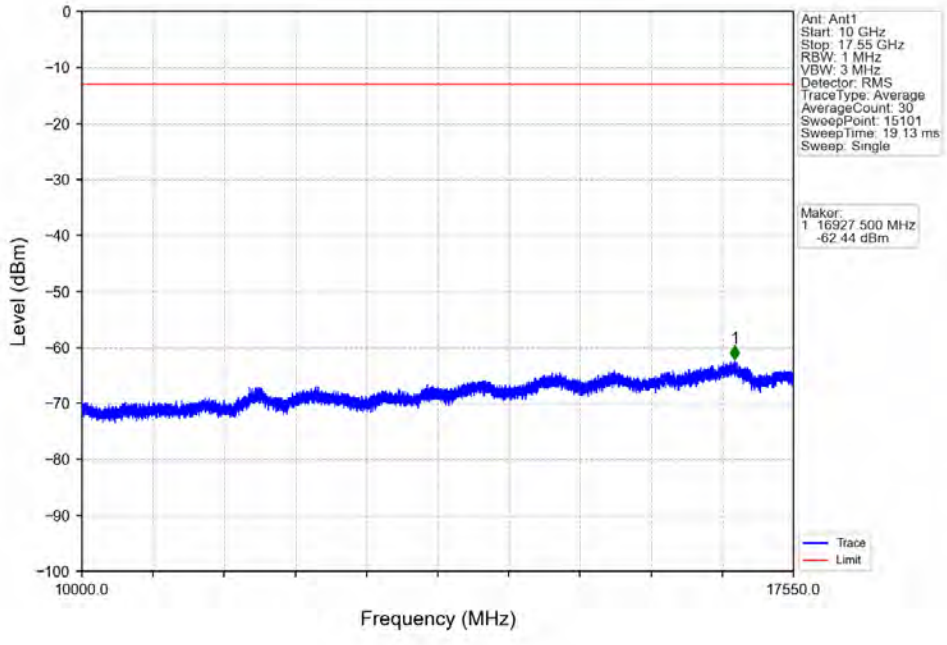
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_1\_0\_NTNV



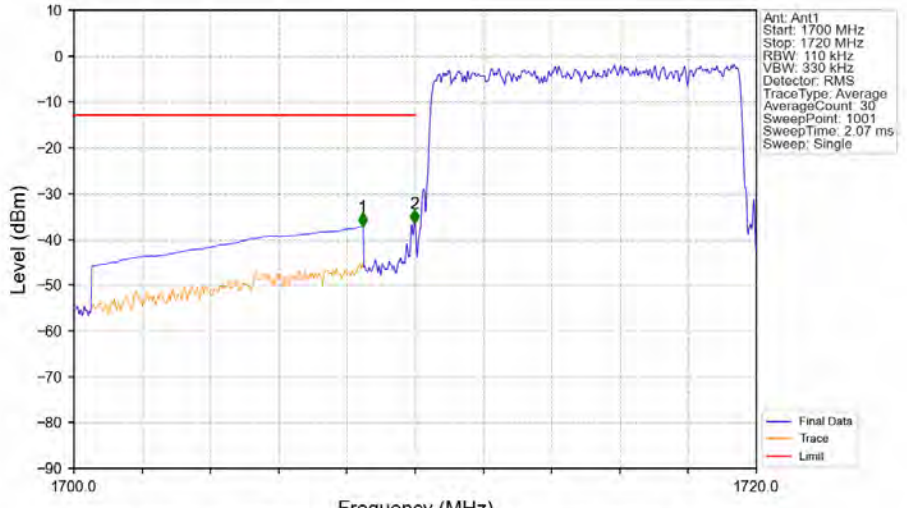
Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_1\_0\_NTNV



Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_1\_0\_NTNV

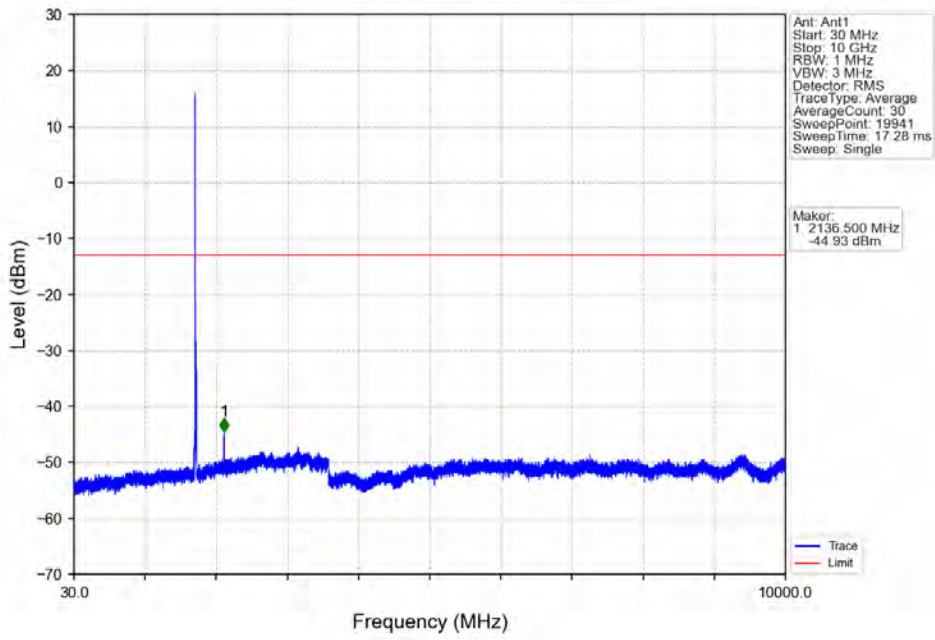


Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV

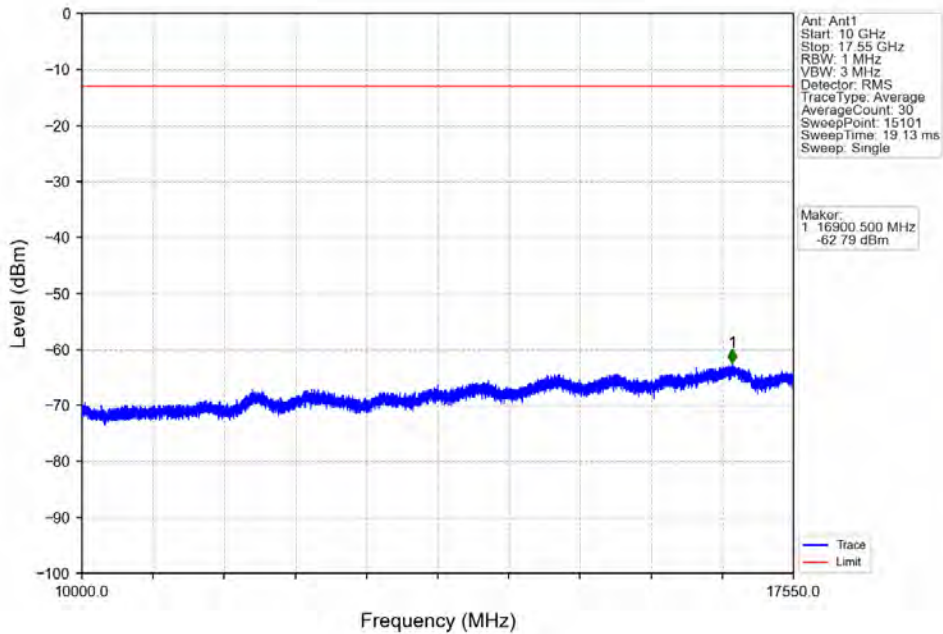


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.460	-37.22	-13	Pass
1709	1710	0.11	/	2	1709.980	-36.58	-13	Pass
1710	1720	0.11	/	/	/	/	/	/

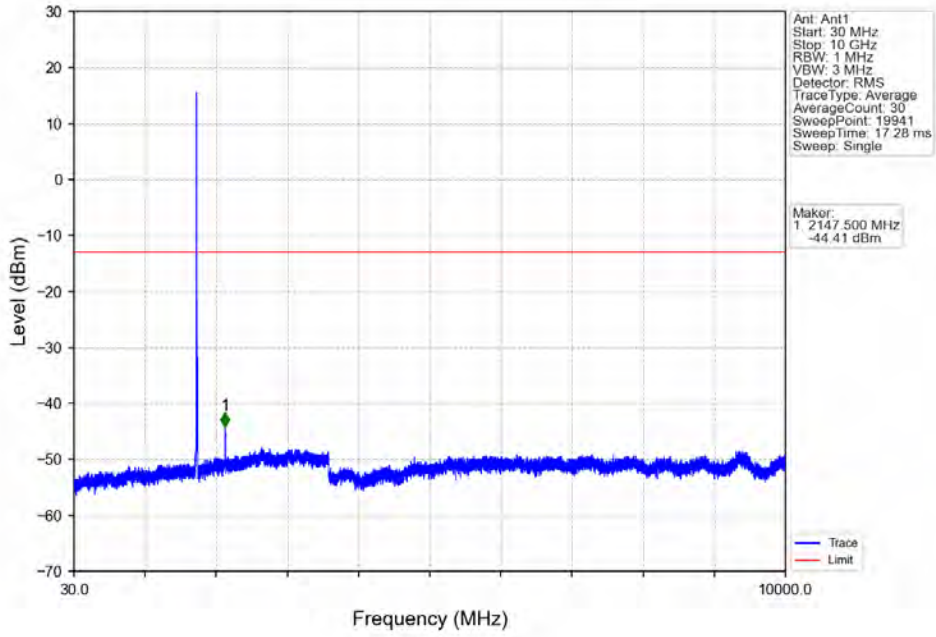
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



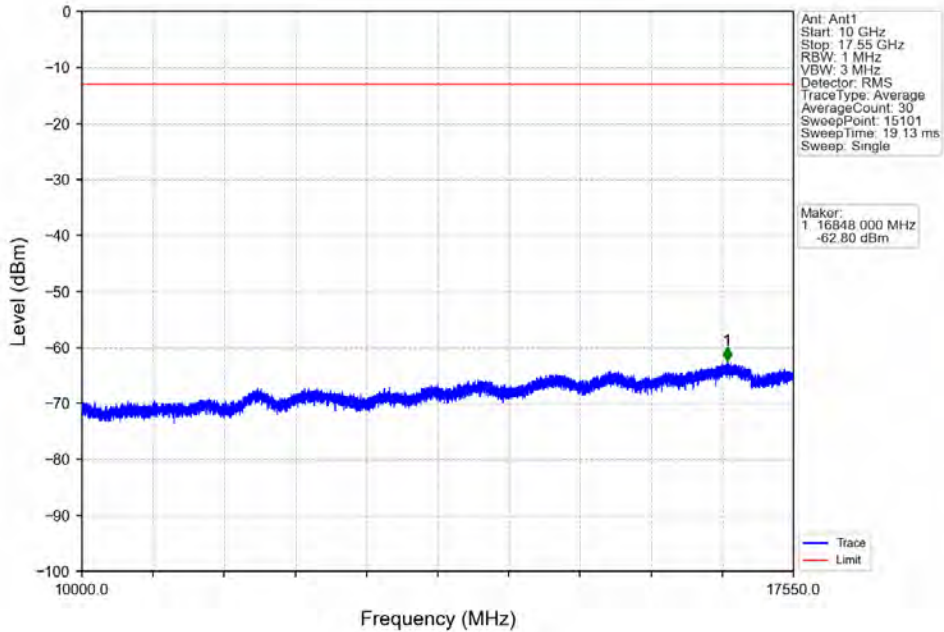
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_1\_0\_NTNV

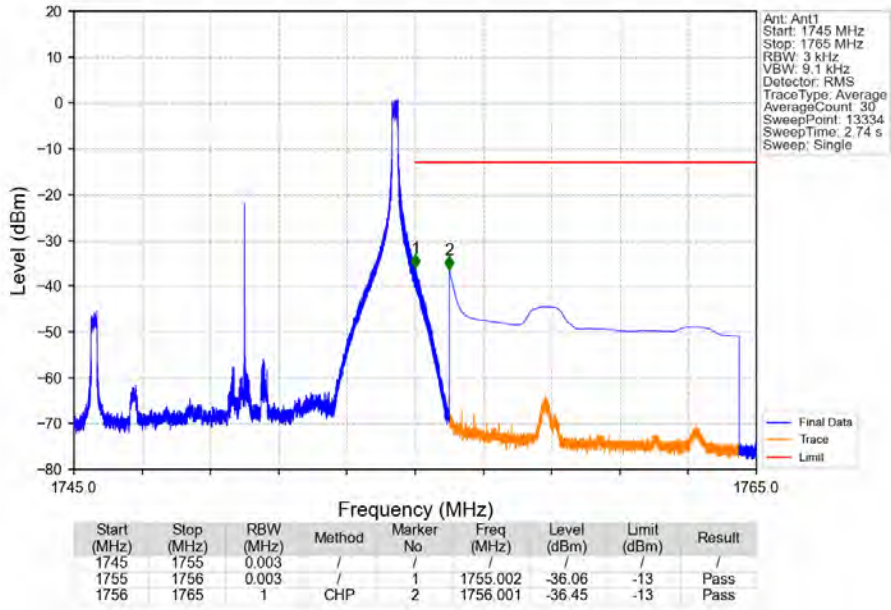


Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_1\_0\_NTNV

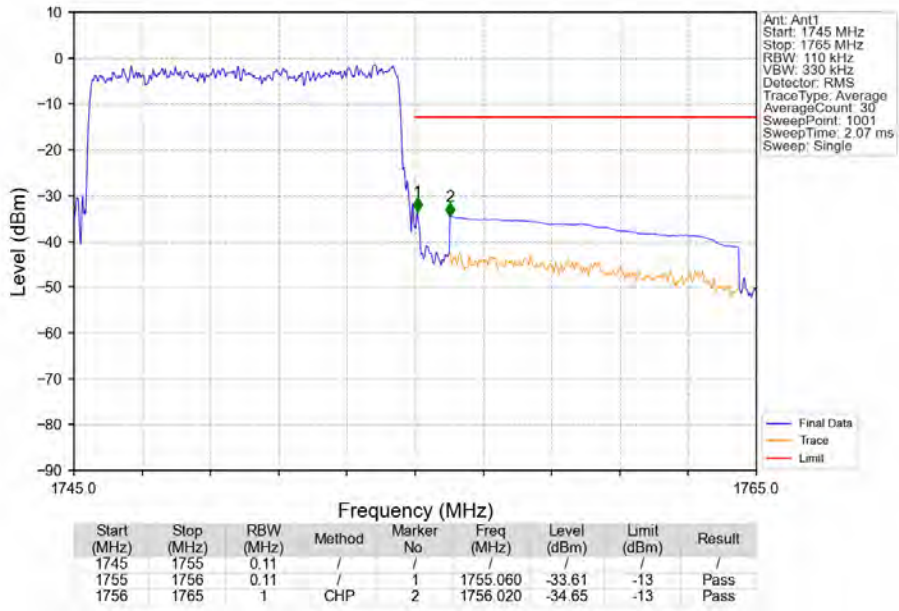




Band4\_10MHz\_16QAM\_HCH\_1750MHz\_RB\_1\_49\_NTNV



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

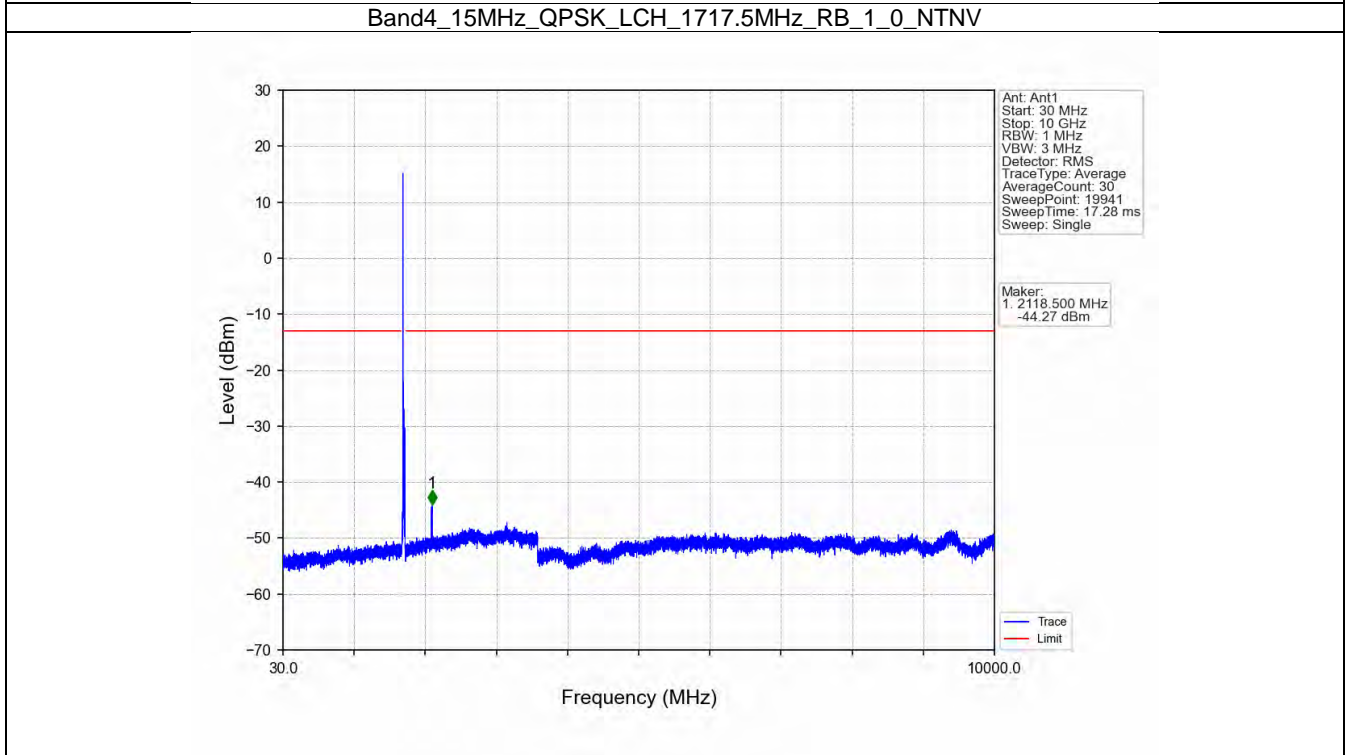
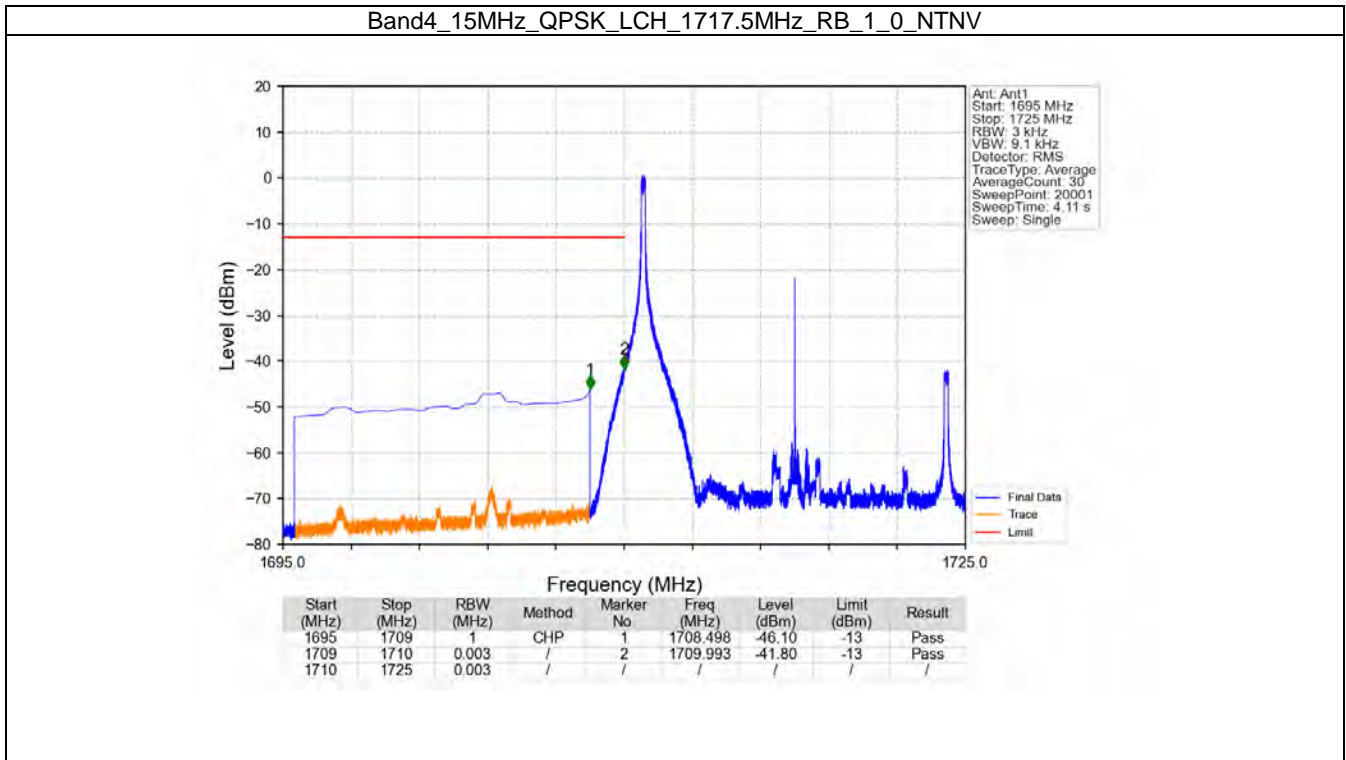


## 6.5 B4\_15MHz

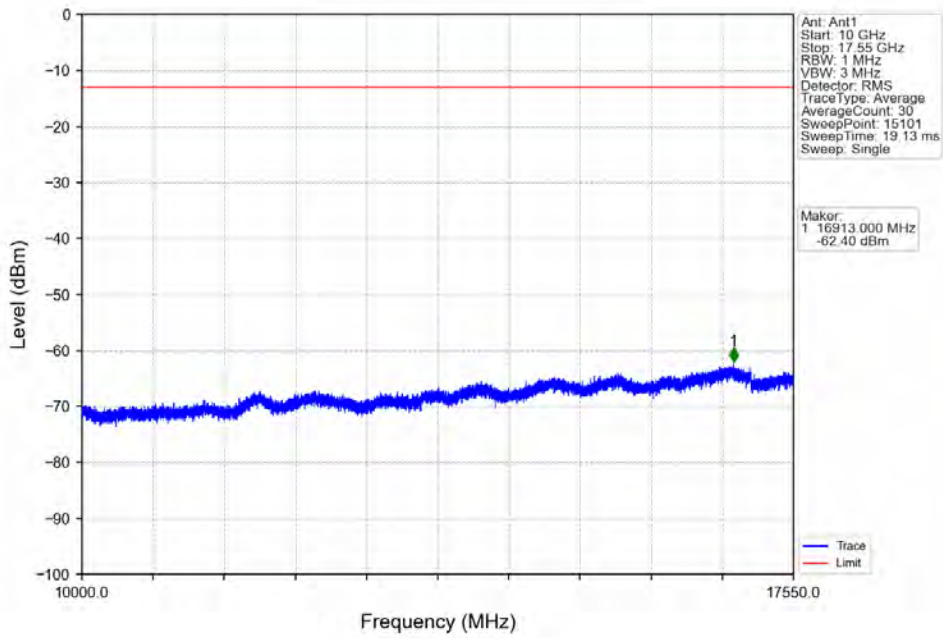
### 6.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
		1	74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
		1	74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

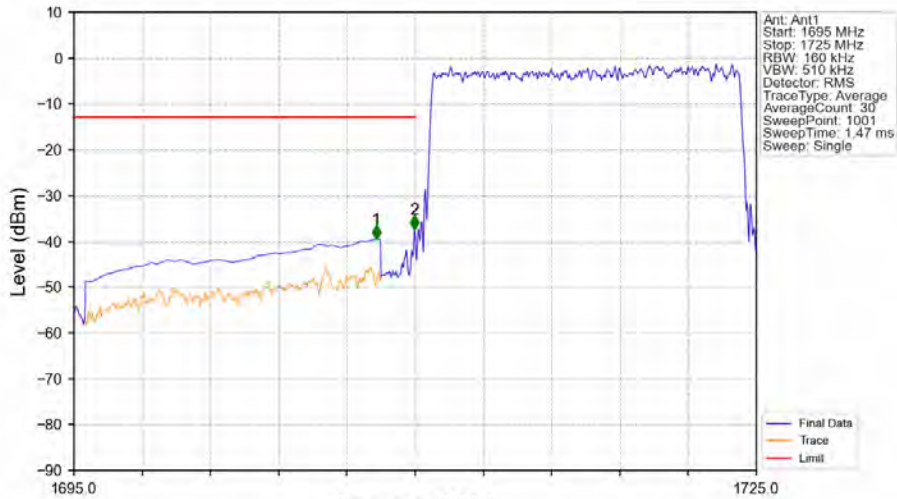
### 6.5.2 Test Graph



Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_1\_0\_NTNV

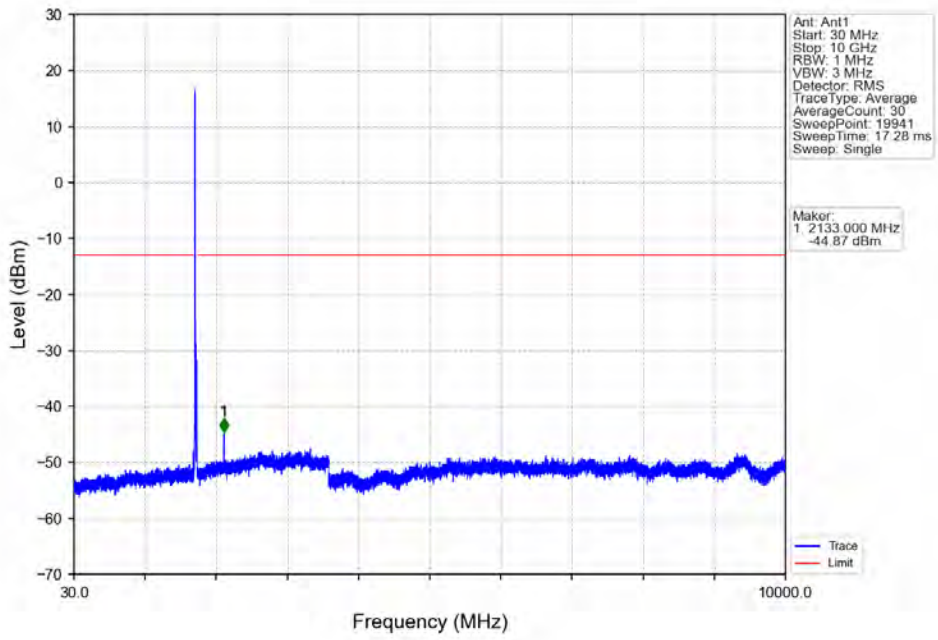


Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

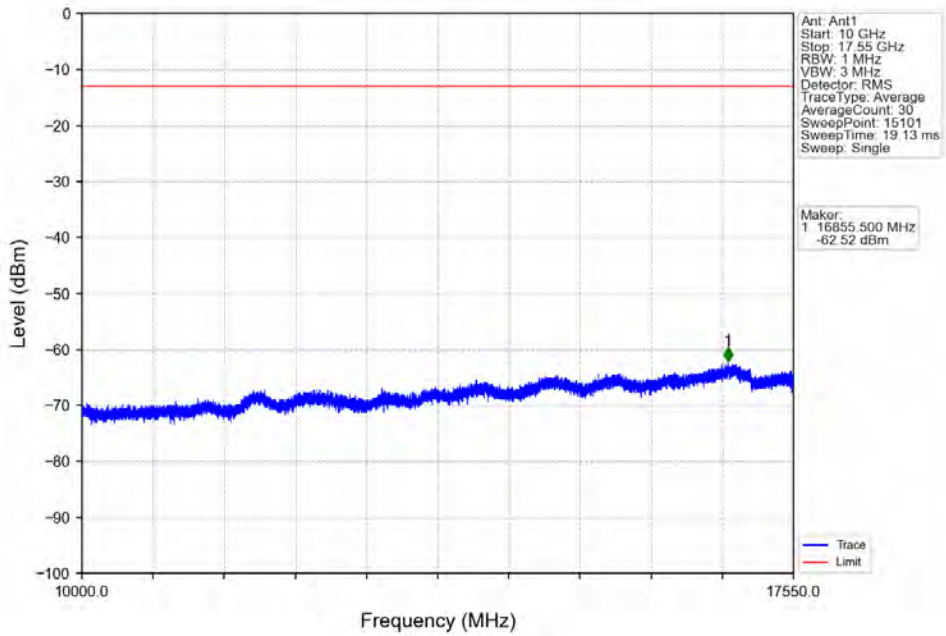


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.290	-39.57	-13	Pass
1709	1710	0.16	/	2	1709.970	-37.48	-13	Pass
1710	1725	0.16	/	/	/	/	/	/

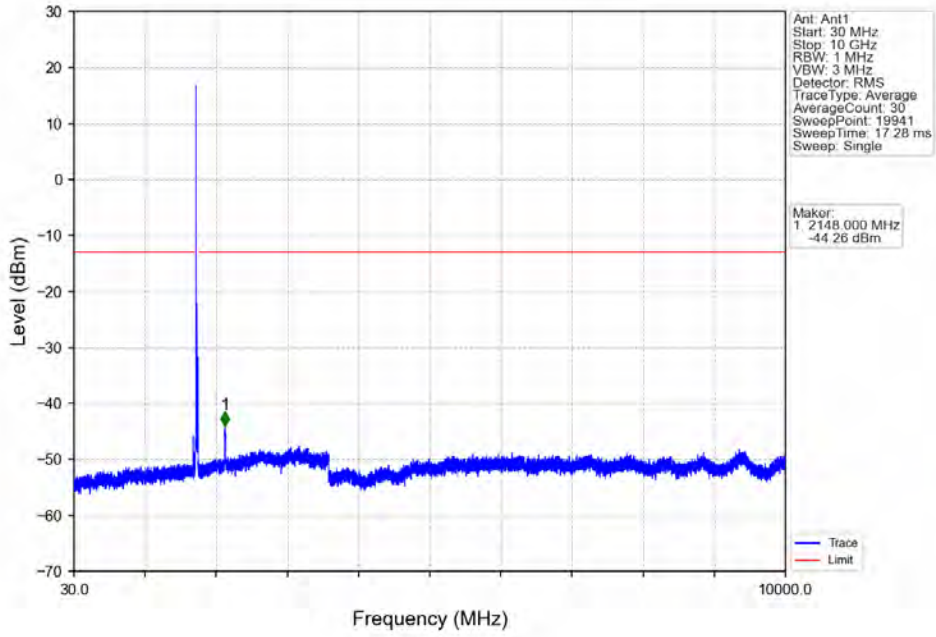
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



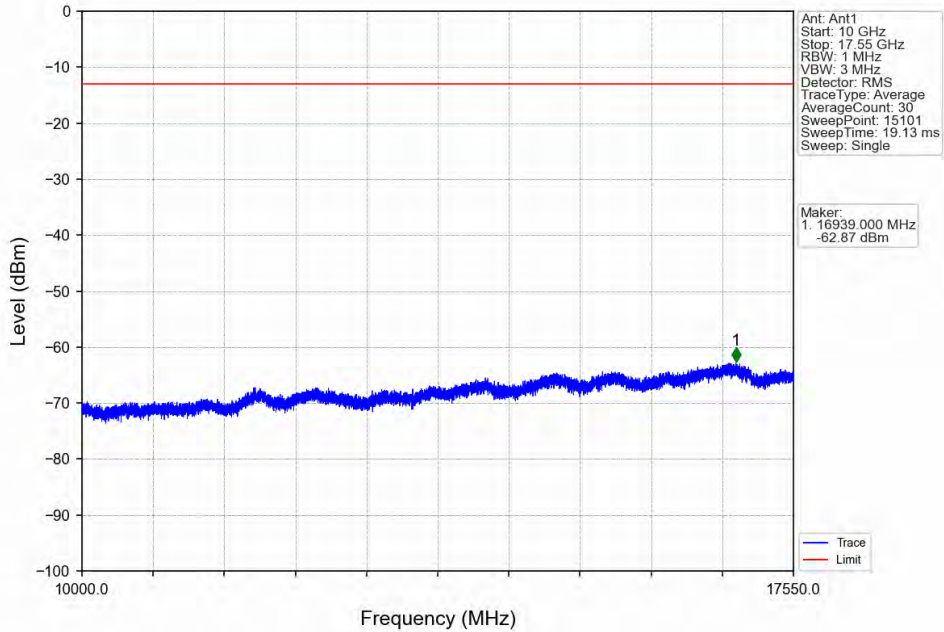
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



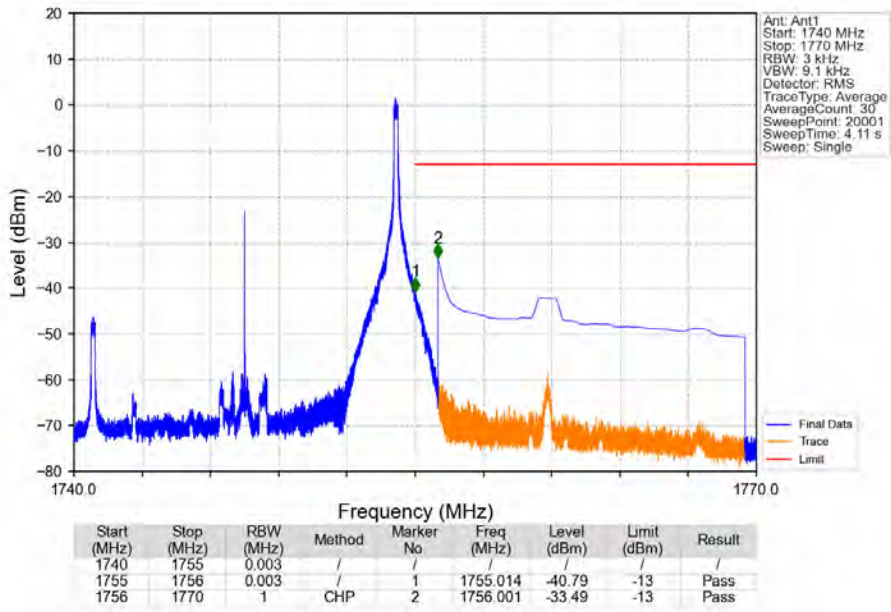
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_1\_0\_NTNV



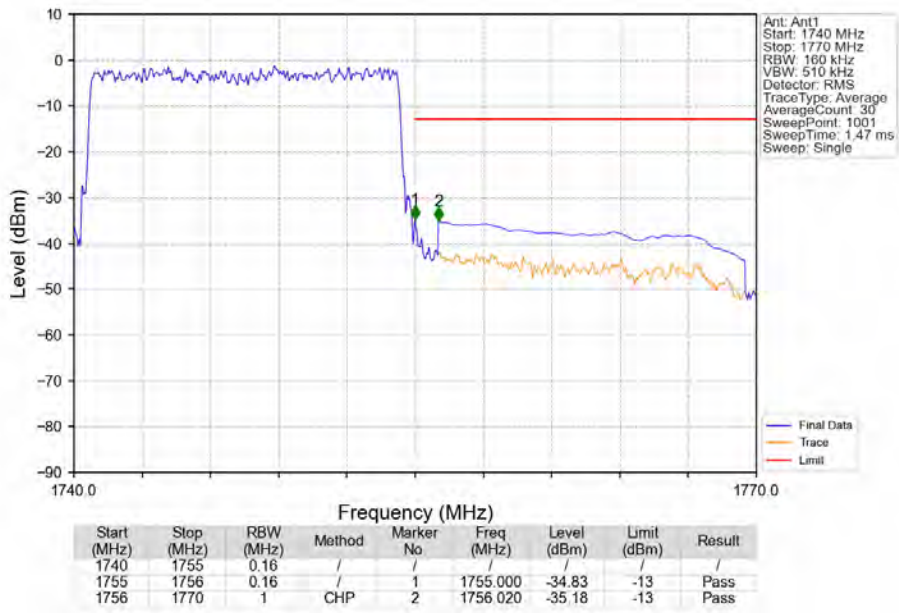
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_1\_0\_NTNV



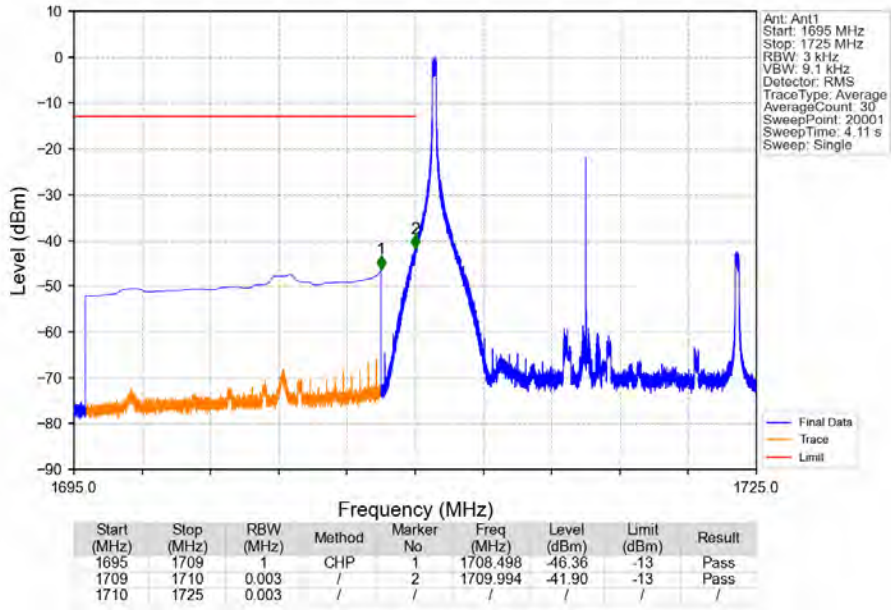
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_1\_74\_NTV



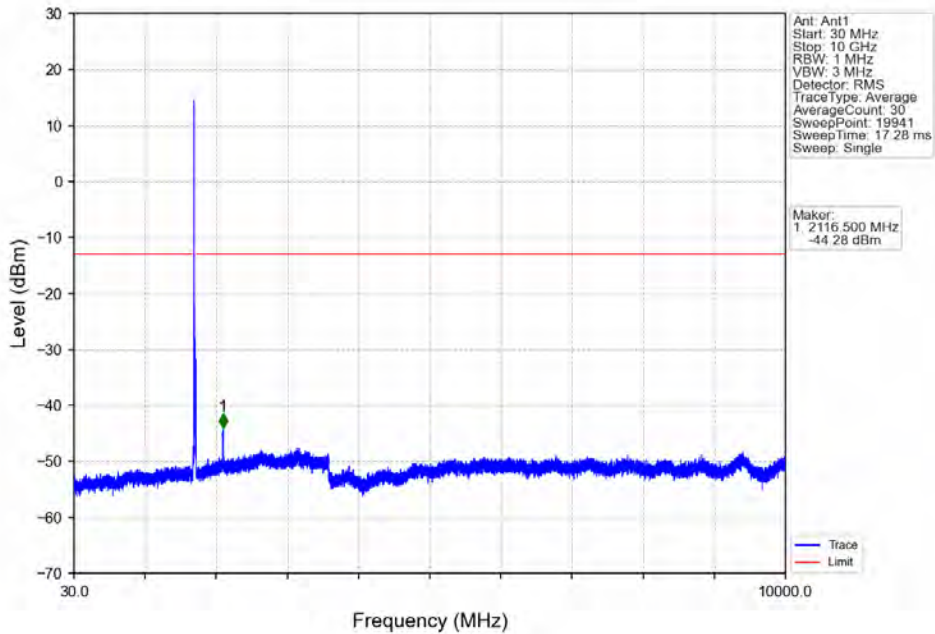
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTV



Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_1\_0\_NTV

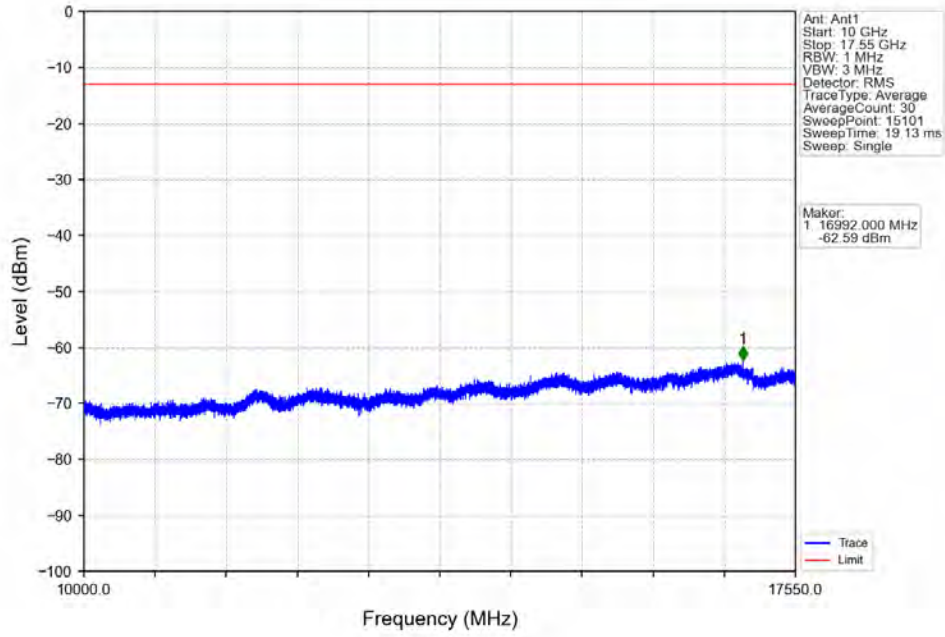


Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_1\_0\_NTV

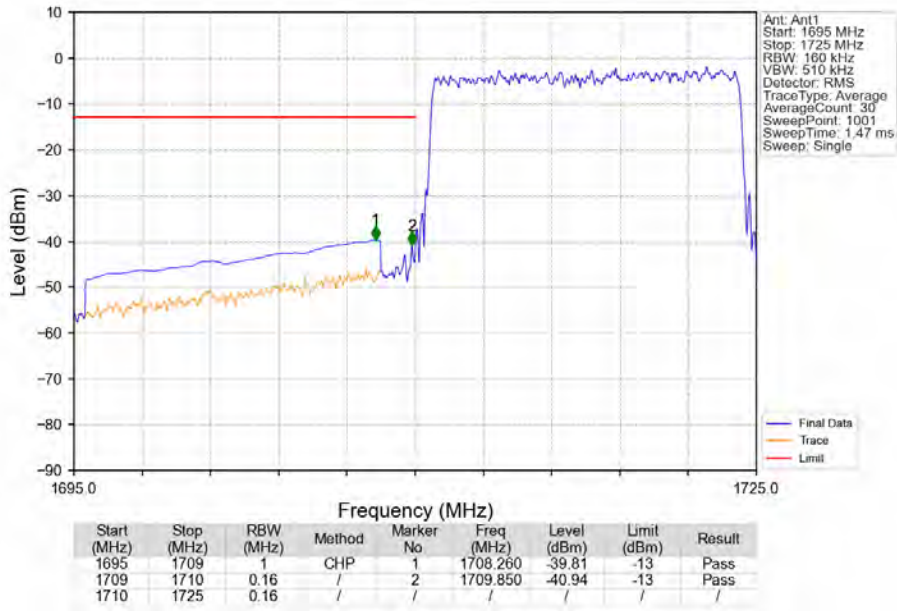




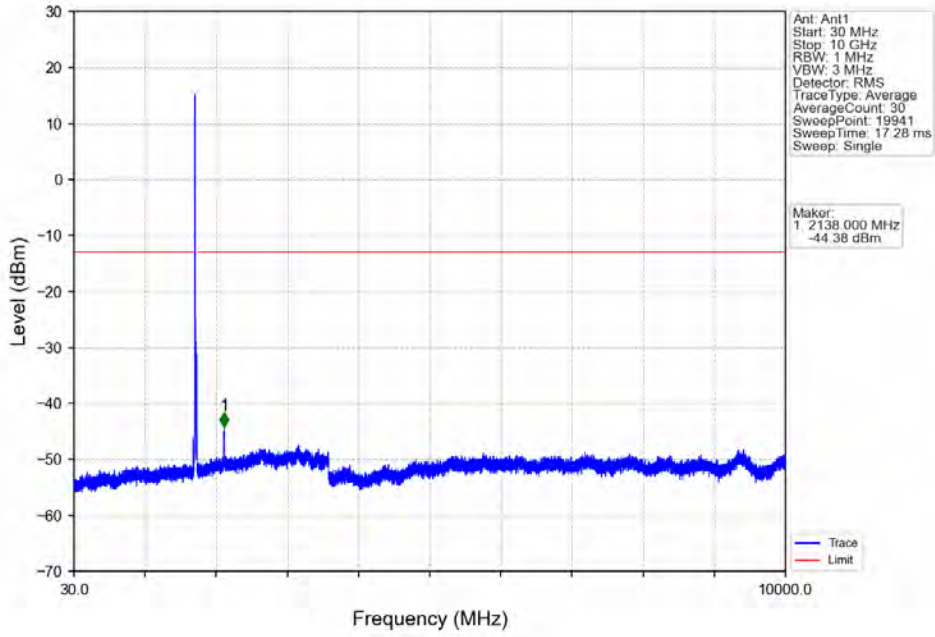
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_1\_0\_NTNV



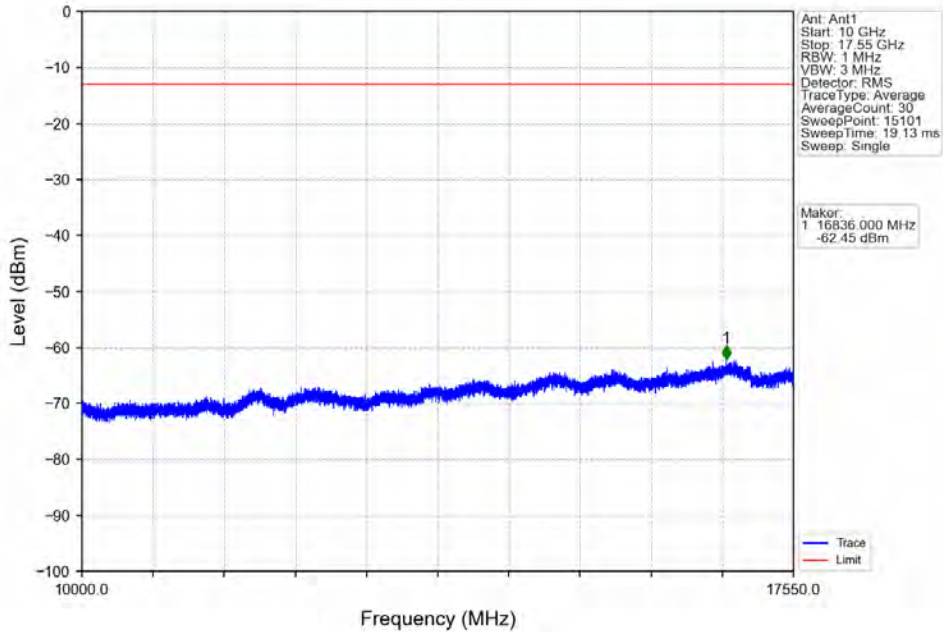
Band4\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



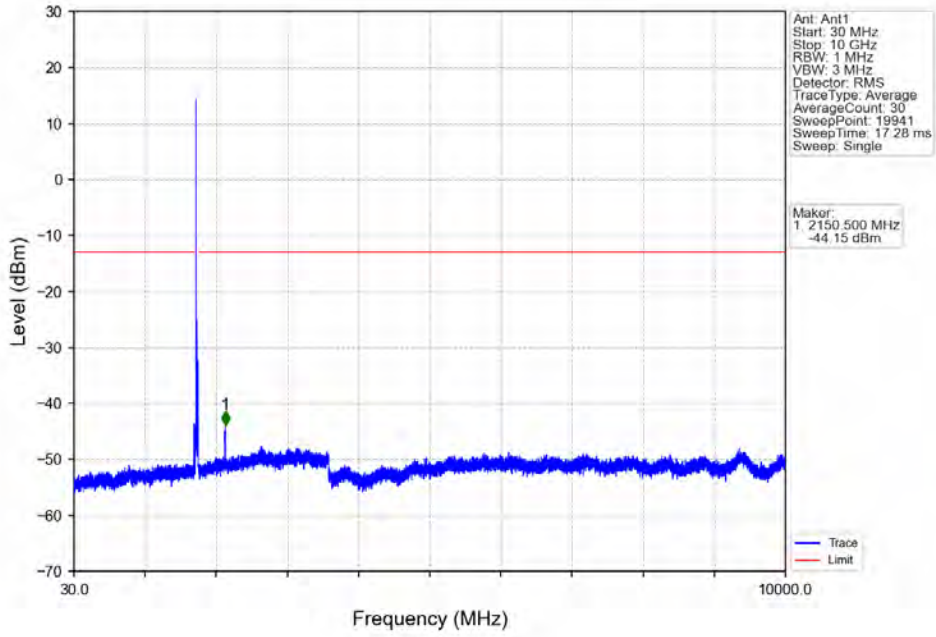
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



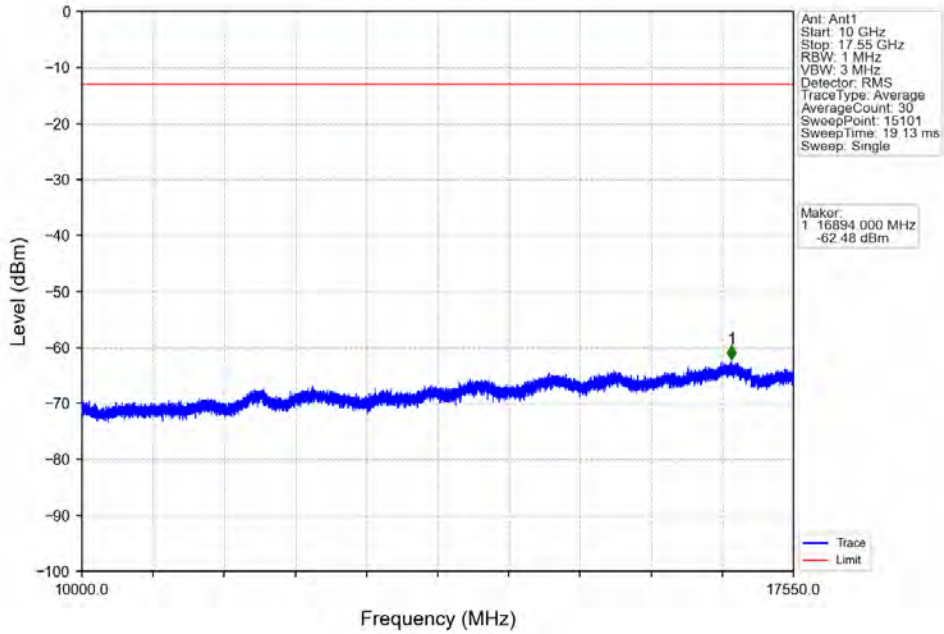
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



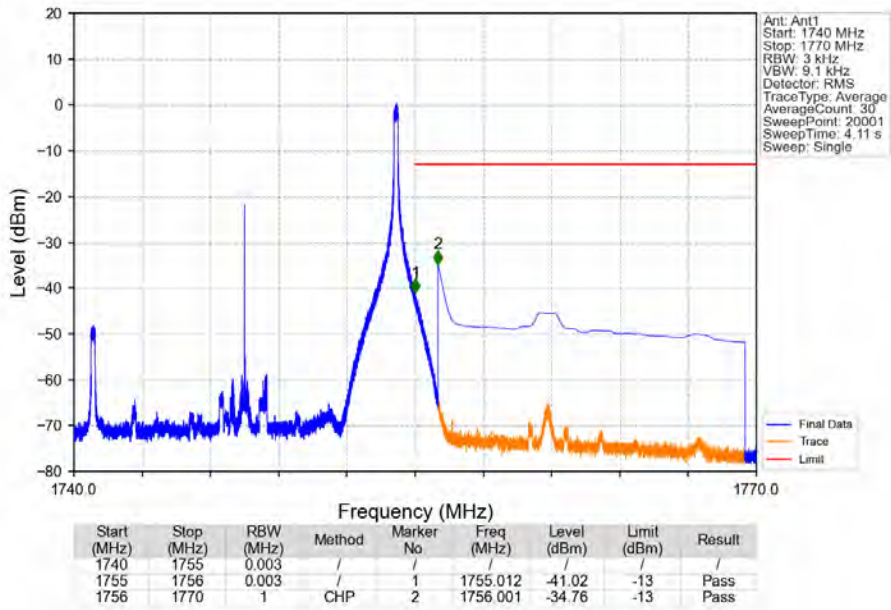
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_1\_0\_NTNV



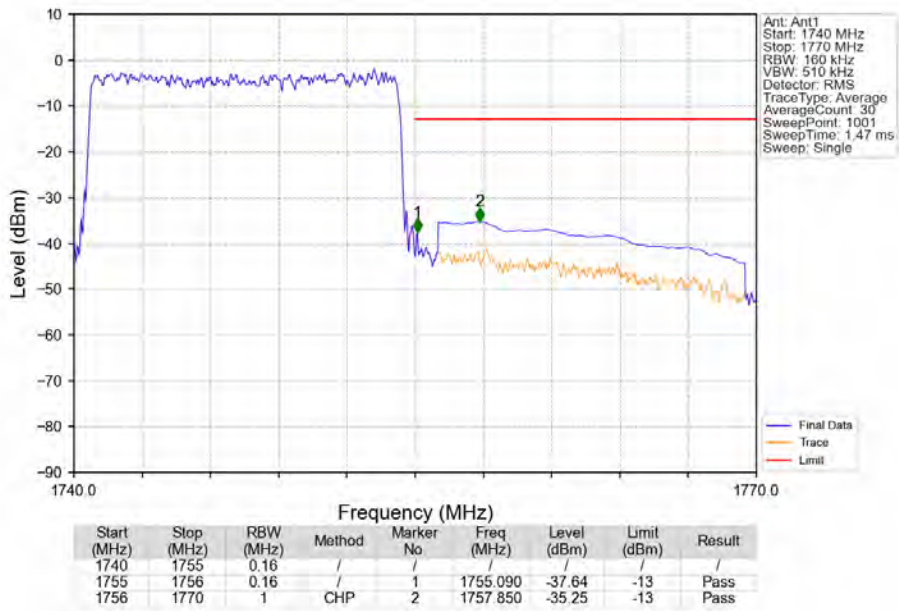
Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_1\_0\_NTNV



Band4\_15MHz\_16QAM\_HCH\_1747.5MHz\_RB\_1\_74\_NTNV



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

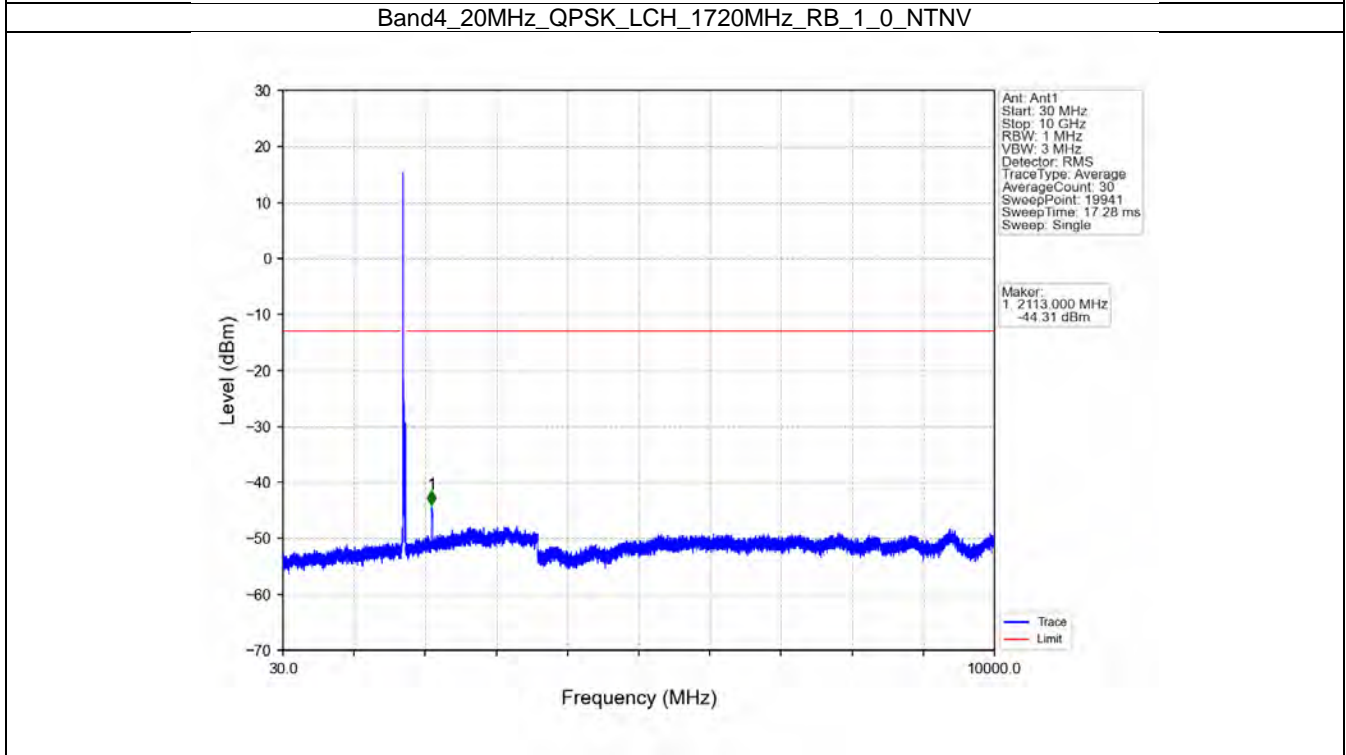
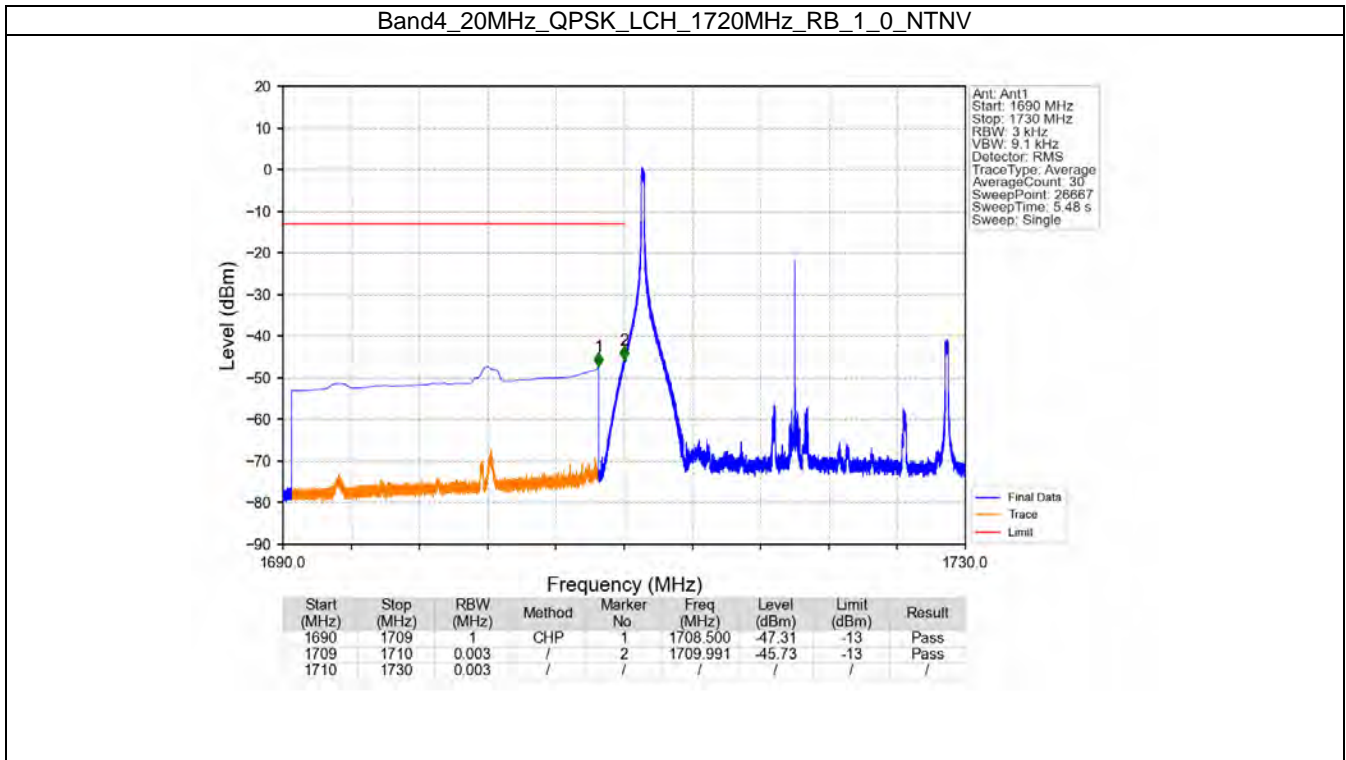


## 6.6 B4\_20MHz

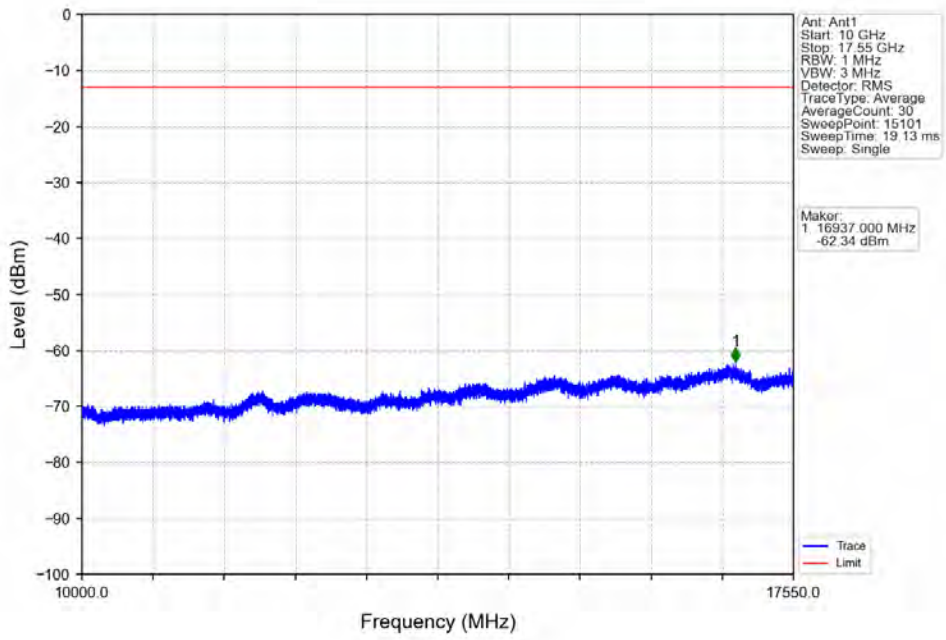
### 6.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass

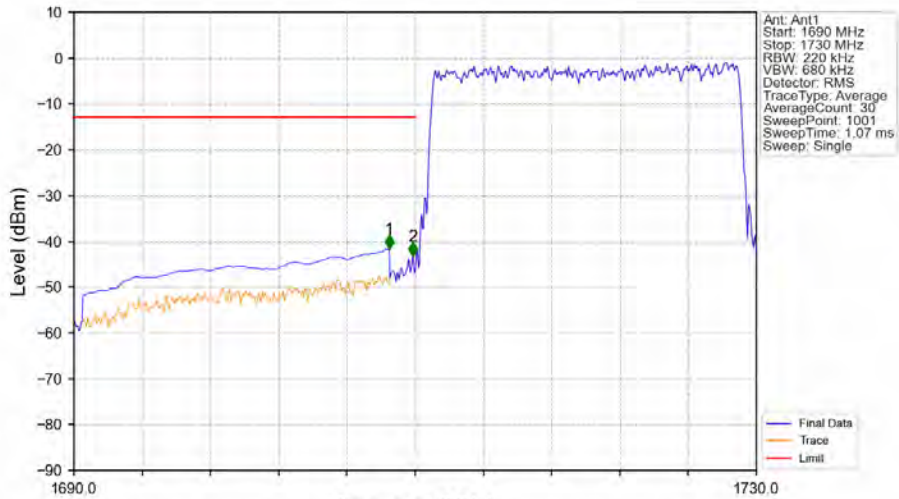
### 6.6.2 Test Graph



Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_1\_0\_NTNV

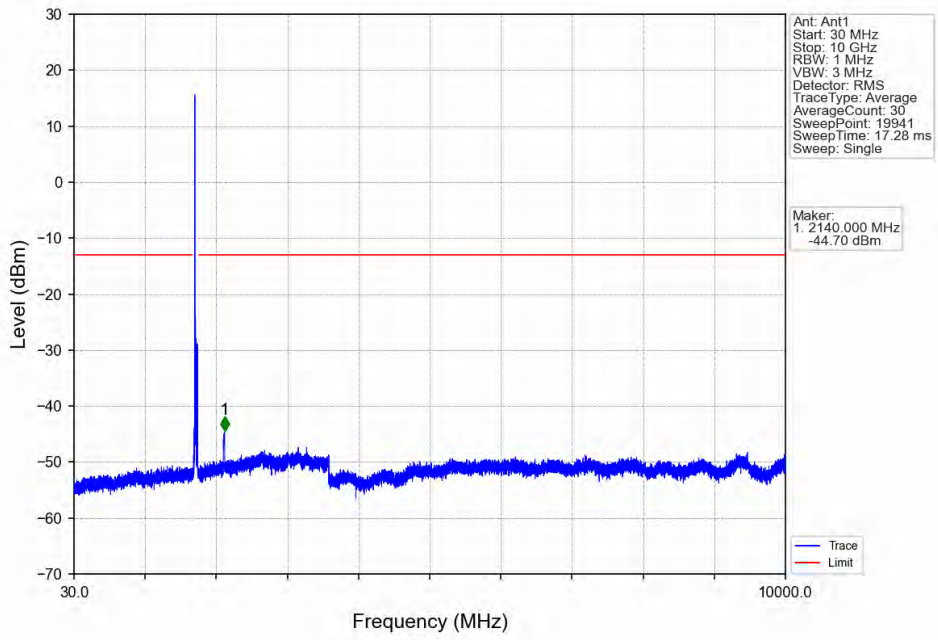


Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV

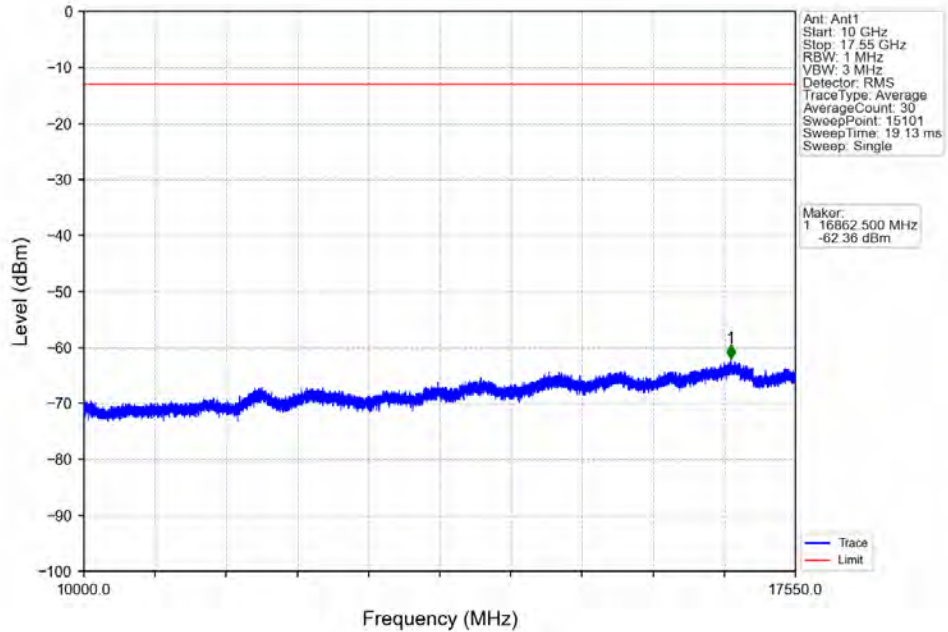


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.480	-41.67	-13	Pass
1709	1710	0.22	/	2	1709.880	-43.22	-13	Pass
1710	1730	0.22	/	/	/	/	/	/

Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV

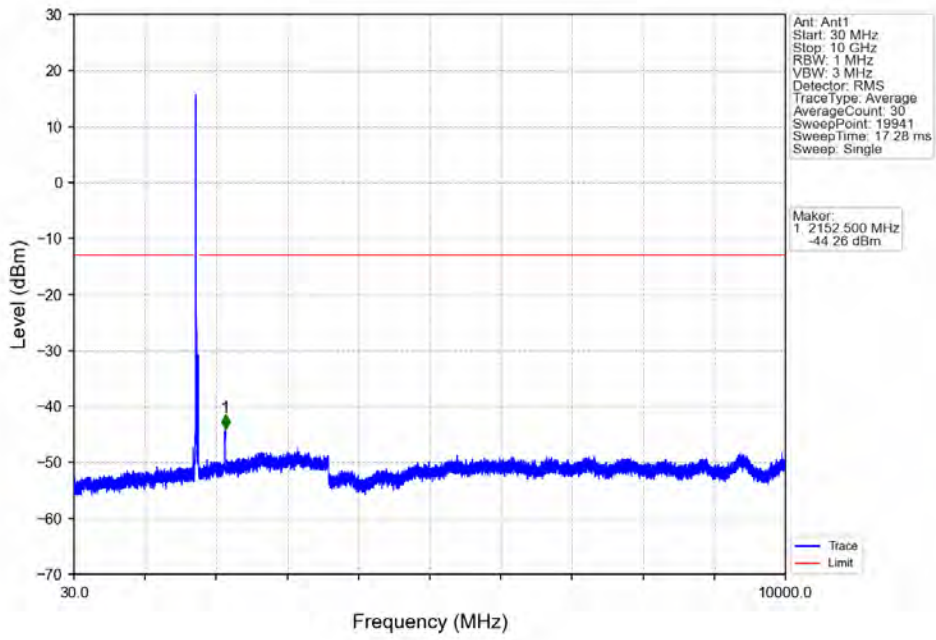


Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV

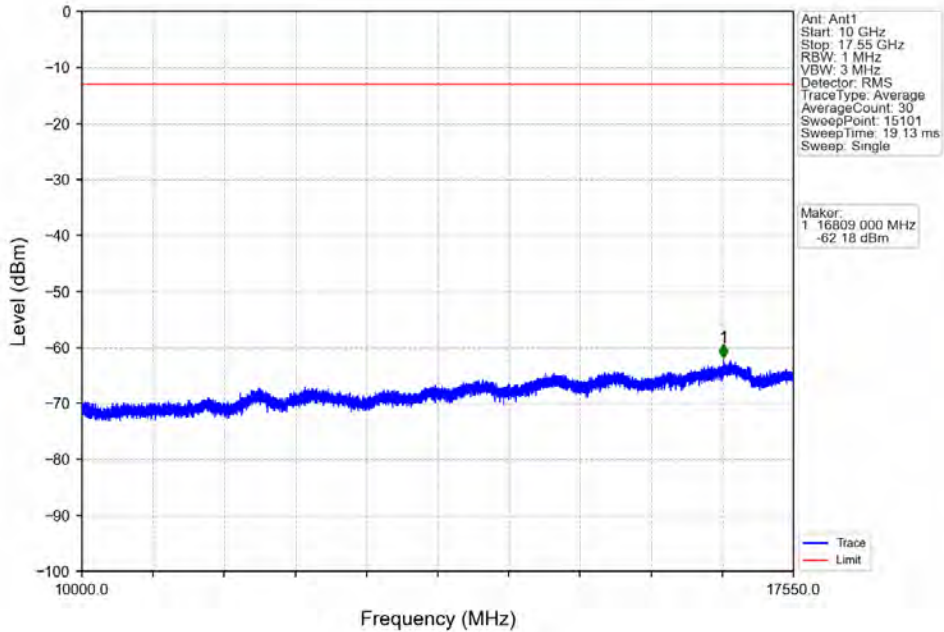




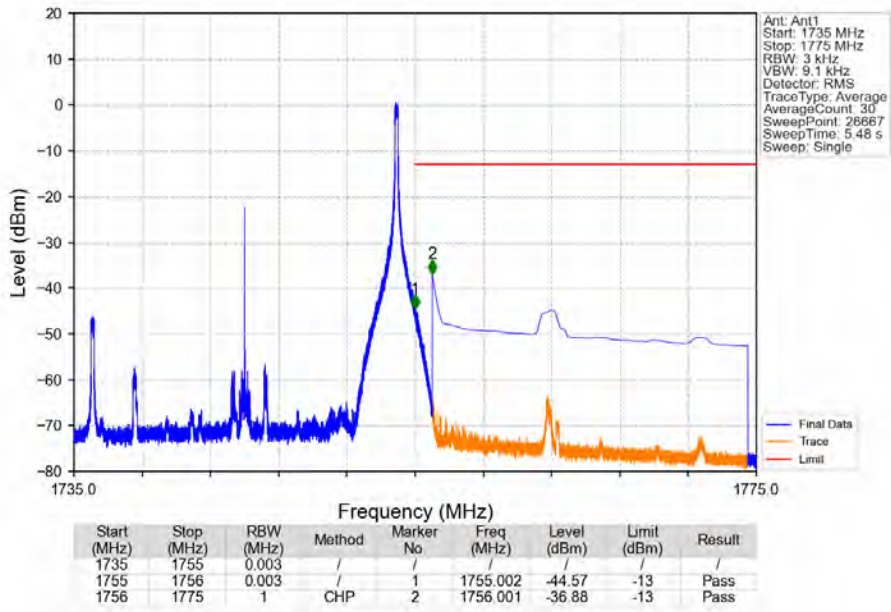
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_1\_0\_NTNV



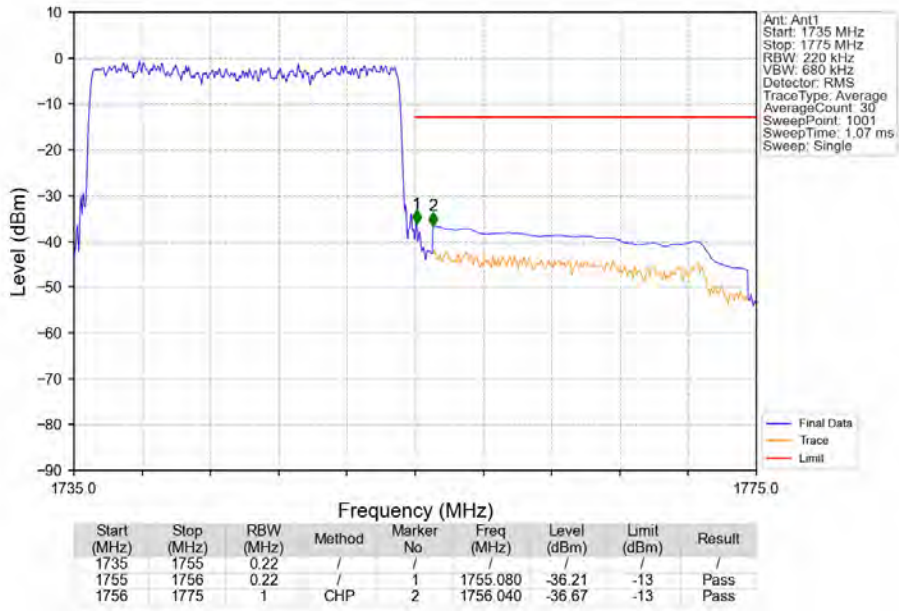
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_1\_0\_NTNV



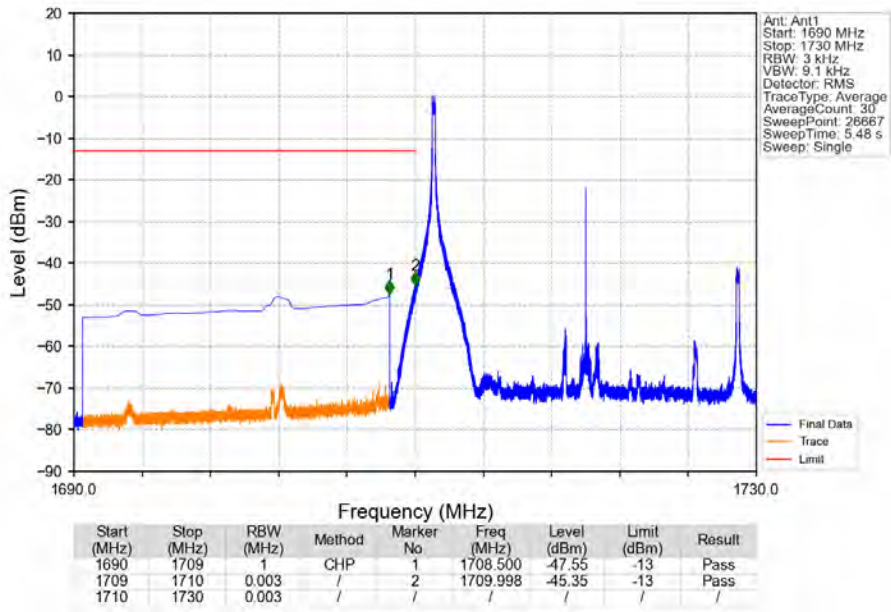
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_1\_99\_NTNV



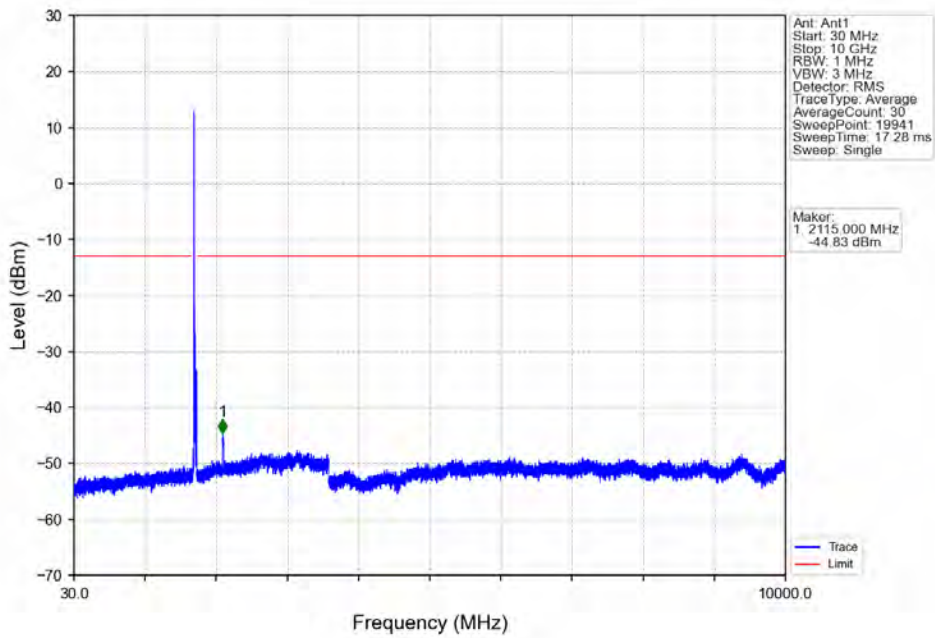
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



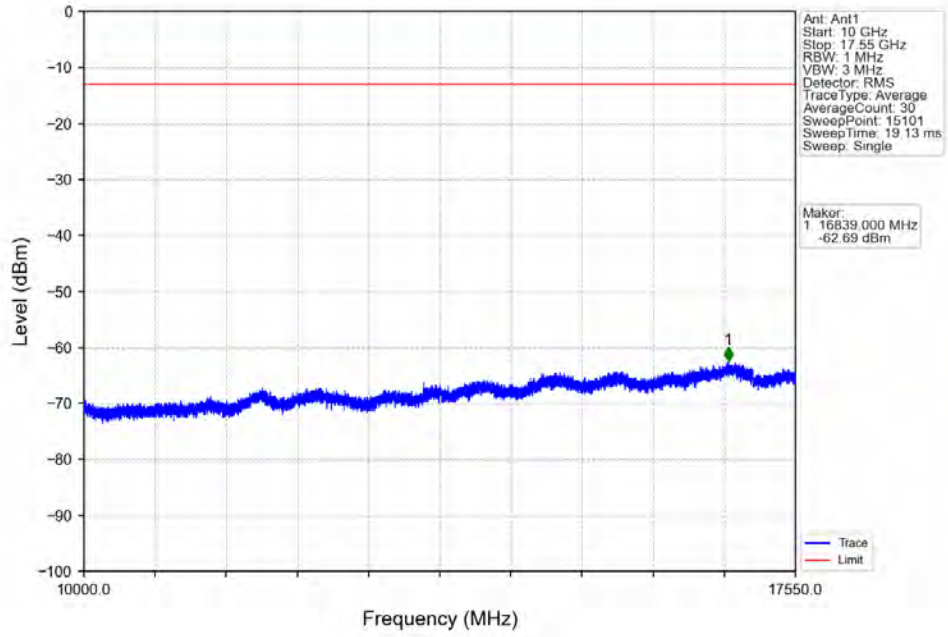
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_1\_0\_NTNV



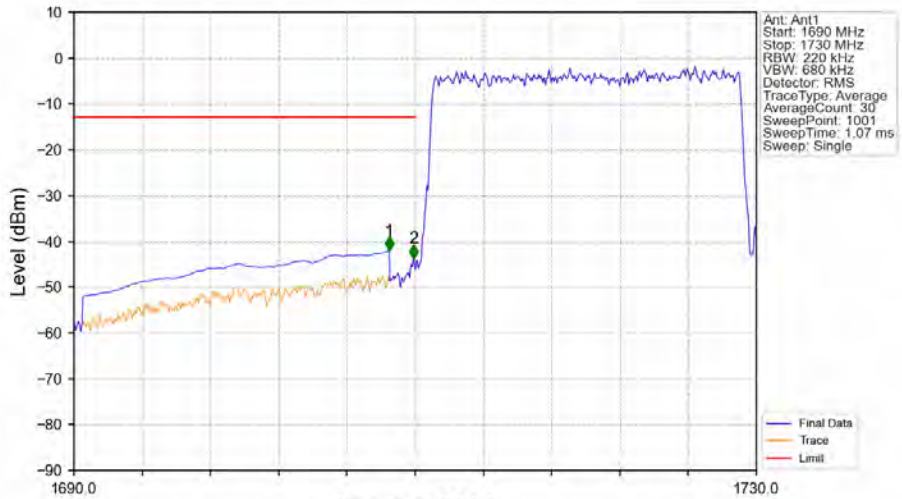
Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_1\_0\_NTNV



Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_1\_0\_NTNV

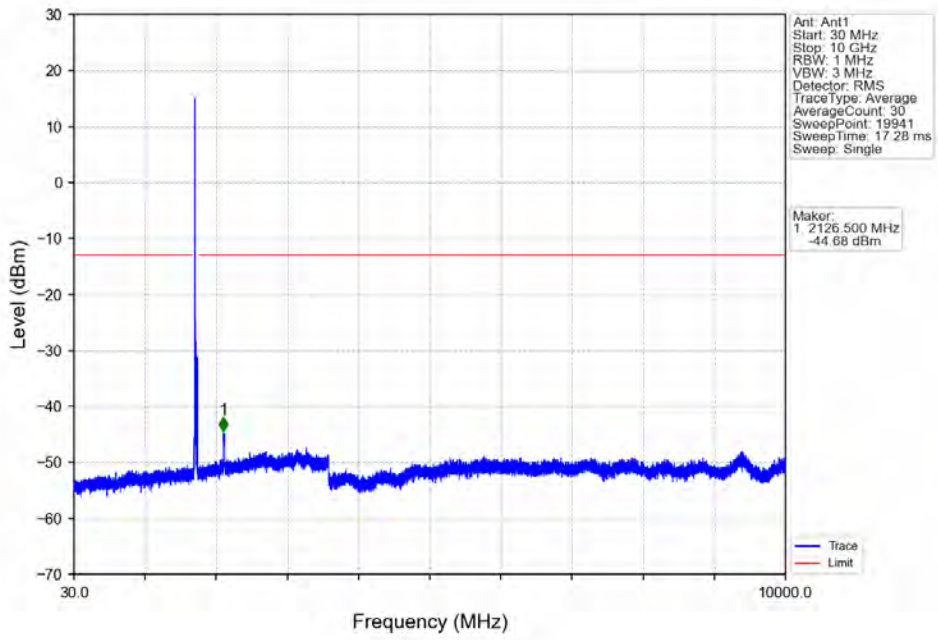


Band4\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV

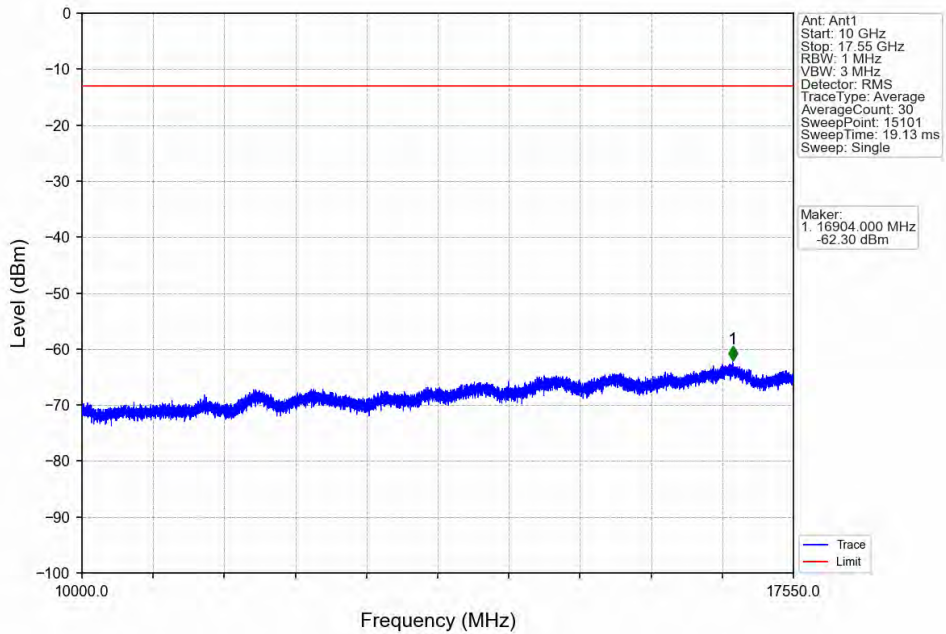


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.480	-42.03	-13	Pass
1709	1710	0.22	/	2	1709.920	-43.72	-13	Pass
1710	1730	0.22	/	/	/	/	/	/

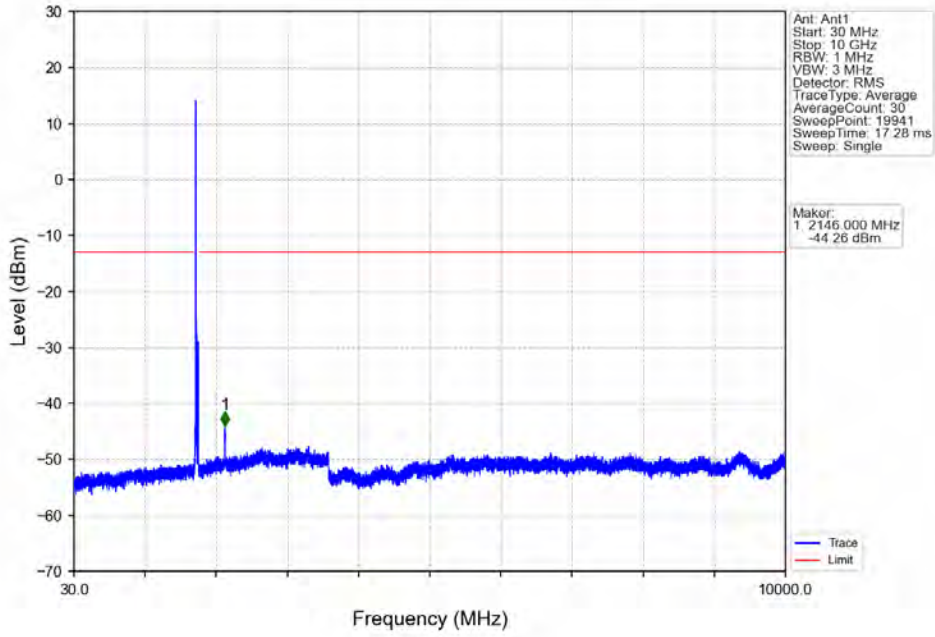
Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



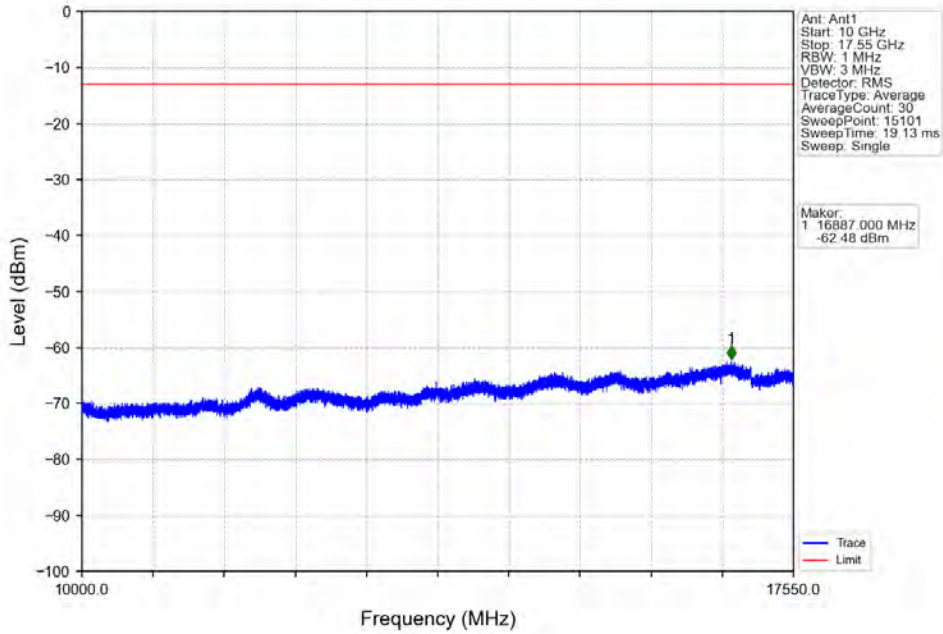
Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



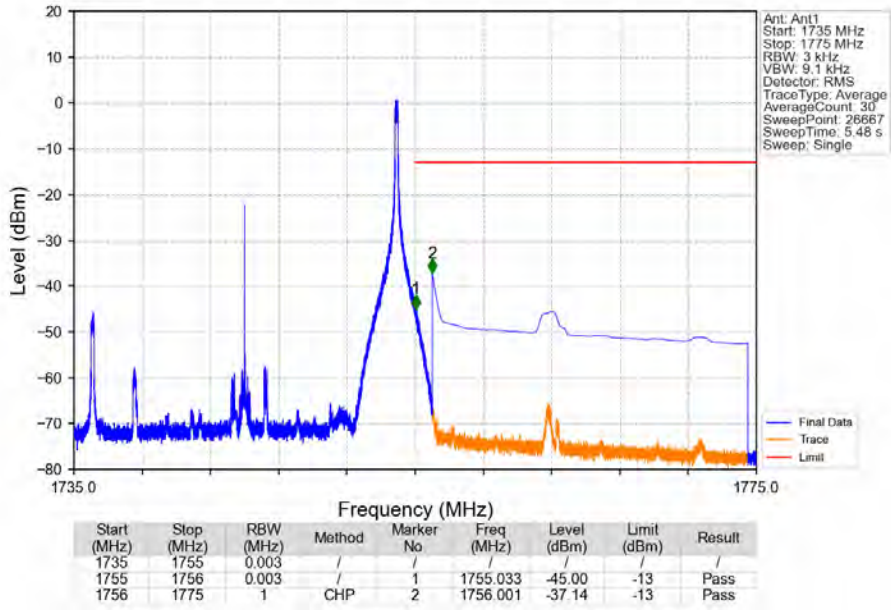
Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_1\_0\_NTNV



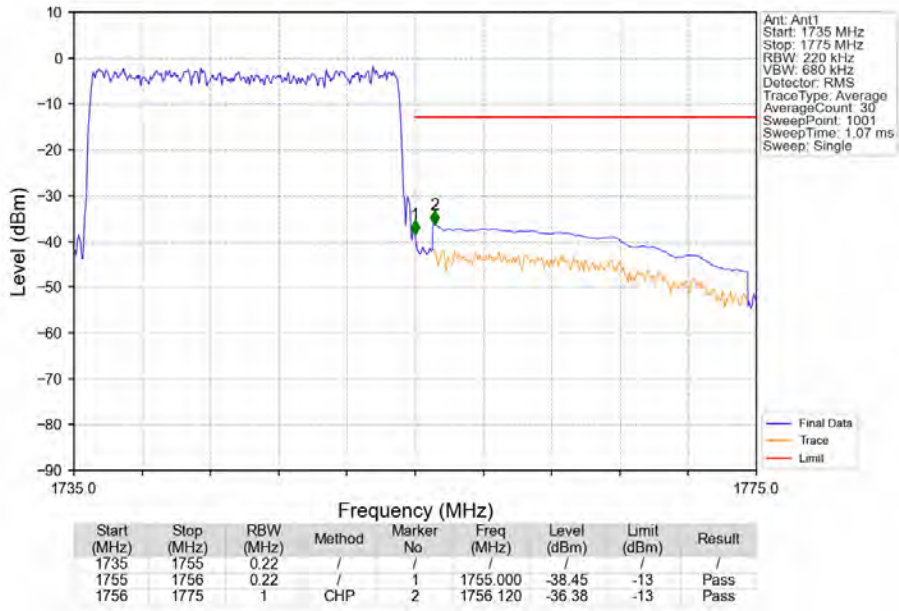
Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_1\_0\_NTNV



Band4\_20MHz\_16QAM\_HCH\_1745MHz\_RB\_1\_99\_NTNV



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



## 7. Form731

### 7.1 Form731\_Power

#### 7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	1.4	1710.7	1754.3	0.1012	0.0114	ppm	1M12G7D	27L	20.05
4	1.4	1710.7	1754.3	0.0820	0.0070	ppm	1M12W7D	27L	19.14
4	3	1711.5	1753.5	0.0995	0.0079	ppm	2M73G7D	27L	19.98
4	3	1711.5	1753.5	0.0828	0.0073	ppm	2M72W7D	27L	19.18
4	5	1712.5	1752.5	0.0955	0.0150	ppm	4M57G7D	27L	19.80
4	5	1712.5	1752.5	0.0741	0.0092	ppm	4M60W7D	27L	18.70
4	10	1715	1750	0.0938	0.0101	ppm	9M10G7D	27L	19.72
4	10	1715	1750	0.0815	0.0078	ppm	9M10W7D	27L	19.11
4	15	1717.5	1747.5	0.0867	0.0072	ppm	13M7G7D	27L	19.38
4	15	1717.5	1747.5	0.0796	0.0068	ppm	13M7W7D	27L	19.01
4	20	1720	1745	0.0895	0.0064	ppm	18M2G7D	27L	19.52
4	20	1720	1745	0.0800	0.0075	ppm	18M2W7D	27L	19.03

## 7.2 Form731\_EIRP

### 7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	1.4	1710.7	1754.3	0.1088	0.0114	ppm	1M12G7D	27L	20.37
4	1.4	1710.7	1754.3	0.0883	0.0070	ppm	1M12W7D	27L	19.46
4	3	1711.5	1753.5	0.1071	0.0079	ppm	2M73G7D	27L	20.3
4	3	1711.5	1753.5	0.0891	0.0073	ppm	2M72W7D	27L	19.5
4	5	1712.5	1752.5	0.1028	0.0150	ppm	4M57G7D	27L	20.12
4	5	1712.5	1752.5	0.0797	0.0092	ppm	4M60W7D	27L	19.02
4	10	1715	1750	0.1009	0.0101	ppm	9M10G7D	27L	20.04
4	10	1715	1750	0.0877	0.0078	ppm	9M10W7D	27L	19.43
4	15	1717.5	1747.5	0.0933	0.0072	ppm	13M7G7D	27L	19.7
4	15	1717.5	1747.5	0.0857	0.0068	ppm	13M7W7D	27L	19.33
4	20	1720	1745	0.0963	0.0064	ppm	18M2G7D	27L	19.84
4	20	1720	1745	0.086	0.0075	ppm	18M2W7D	27L	19.35