

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B5\_1.4MHz\_ERP

### 1.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	824.7	1	0	21.90	-3.44	16.31	<=38.45	Pass		
			2	22.01	-3.44	16.42	<=38.45	Pass		
			5	21.90	-3.44	16.31	<=38.45	Pass		
		3	0	21.94	-3.44	16.35	<=38.45	Pass		
			2	21.94	-3.44	16.35	<=38.45	Pass		
			3	21.93	-3.44	16.34	<=38.45	Pass		
		6	0	20.97	-3.44	15.38	<=38.45	Pass		
		836.5	1	0	21.85	-3.44	16.26	<=38.45	Pass	
				2	21.97	-3.44	16.38	<=38.45	Pass	
	5			21.88	-3.44	16.29	<=38.45	Pass		
	3		0	21.95	-3.44	16.36	<=38.45	Pass		
			2	21.97	-3.44	16.38	<=38.45	Pass		
			3	21.95	-3.44	16.36	<=38.45	Pass		
	6		0	20.93	-3.44	15.34	<=38.45	Pass		
	848.3		1	0	21.76	-3.44	16.17	<=38.45	Pass	
				2	21.87	-3.44	16.28	<=38.45	Pass	
		5		21.80	-3.44	16.21	<=38.45	Pass		
		3	0	21.85	-3.44	16.26	<=38.45	Pass		
			2	21.88	-3.44	16.29	<=38.45	Pass		
			3	21.80	-3.44	16.21	<=38.45	Pass		
		6	0	20.90	-3.44	15.31	<=38.45	Pass		
		16QAM	824.7	1	0	20.85	-3.44	15.26	<=38.45	Pass
					2	20.93	-3.44	15.34	<=38.45	Pass
	5				20.86	-3.44	15.27	<=38.45	Pass	
3	0			21.14	-3.44	15.55	<=38.45	Pass		
	2			21.16	-3.44	15.57	<=38.45	Pass		
	3			21.14	-3.44	15.55	<=38.45	Pass		
6	0			19.93	-3.44	14.34	<=38.45	Pass		
836.5	1			0	20.89	-3.44	15.30	<=38.45	Pass	
				2	20.98	-3.44	15.39	<=38.45	Pass	
			5	20.90	-3.44	15.31	<=38.45	Pass		
	3		0	21.05	-3.44	15.46	<=38.45	Pass		
			2	21.04	-3.44	15.45	<=38.45	Pass		
			3	21.02	-3.44	15.43	<=38.45	Pass		
	6		0	19.84	-3.44	14.25	<=38.45	Pass		
	848.3		1	0	20.91	-3.44	15.32	<=38.45	Pass	
				2	21.01	-3.44	15.42	<=38.45	Pass	
5				20.89	-3.44	15.30	<=38.45	Pass		
3			0	20.87	-3.44	15.28	<=38.45	Pass		
			2	20.83	-3.44	15.24	<=38.45	Pass		
			3	20.74	-3.44	15.15	<=38.45	Pass		
6			0	19.86	-3.44	14.27	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B5\_3MHz\_ERP

### 1.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	825.5	1	0	22.11	-3.44	16.52	<=38.45	Pass		
			7	22.22	-3.44	16.63	<=38.45	Pass		
			14	22.09	-3.44	16.50	<=38.45	Pass		
		8	0	21.04	-3.44	15.45	<=38.45	Pass		
			4	21.10	-3.44	15.51	<=38.45	Pass		
			7	21.08	-3.44	15.49	<=38.45	Pass		
		15	0	21.02	-3.44	15.43	<=38.45	Pass		
		836.5	1	0	21.97	-3.44	16.38	<=38.45	Pass	
				7	22.11	-3.44	16.52	<=38.45	Pass	
	14			21.96	-3.44	16.37	<=38.45	Pass		
	8		0	20.99	-3.44	15.40	<=38.45	Pass		
			4	21.03	-3.44	15.44	<=38.45	Pass		
			7	20.97	-3.44	15.38	<=38.45	Pass		
	15		0	21.01	-3.44	15.42	<=38.45	Pass		
	847.5		1	0	21.88	-3.44	16.29	<=38.45	Pass	
				7	22.03	-3.44	16.44	<=38.45	Pass	
		14		21.95	-3.44	16.36	<=38.45	Pass		
		8	0	20.97	-3.44	15.38	<=38.45	Pass		
			4	21.00	-3.44	15.41	<=38.45	Pass		
			7	20.92	-3.44	15.33	<=38.45	Pass		
		15	0	20.94	-3.44	15.35	<=38.45	Pass		
		16QAM	825.5	1	0	21.05	-3.44	15.46	<=38.45	Pass
					7	21.21	-3.44	15.62	<=38.45	Pass
	14				21.04	-3.44	15.45	<=38.45	Pass	
8	0			20.05	-3.44	14.46	<=38.45	Pass		
	4			20.12	-3.44	14.53	<=38.45	Pass		
	7			20.07	-3.44	14.48	<=38.45	Pass		
15	0			20.00	-3.44	14.41	<=38.45	Pass		
836.5	1			0	21.13	-3.44	15.54	<=38.45	Pass	
				7	21.31	-3.44	15.72	<=38.45	Pass	
			14	21.17	-3.44	15.58	<=38.45	Pass		
	8		0	19.96	-3.44	14.37	<=38.45	Pass		
			4	20.01	-3.44	14.42	<=38.45	Pass		
			7	19.95	-3.44	14.36	<=38.45	Pass		
	15		0	19.96	-3.44	14.37	<=38.45	Pass		
	847.5		1	0	21.50	-3.44	15.91	<=38.45	Pass	
				7	21.59	-3.44	16.00	<=38.45	Pass	
14				21.30	-3.44	15.71	<=38.45	Pass		
8			0	20.13	-3.44	14.54	<=38.45	Pass		
			4	20.17	-3.44	14.58	<=38.45	Pass		
			7	20.07	-3.44	14.48	<=38.45	Pass		
15			0	20.03	-3.44	14.44	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.3 B5\_5MHz\_ERP

#### 1.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	826.5	1	0	21.84	-3.44	16.25	<=38.45	Pass		
			13	21.98	-3.44	16.39	<=38.45	Pass		
			24	21.84	-3.44	16.25	<=38.45	Pass		
		12	0	20.88	-3.44	15.29	<=38.45	Pass		
			6	20.95	-3.44	15.36	<=38.45	Pass		
			13	21.00	-3.44	15.41	<=38.45	Pass		
		25	0	20.92	-3.44	15.33	<=38.45	Pass		
		836.5	1	0	21.78	-3.44	16.19	<=38.45	Pass	
				13	21.89	-3.44	16.30	<=38.45	Pass	
	24			21.76	-3.44	16.17	<=38.45	Pass		
	12		0	20.90	-3.44	15.31	<=38.45	Pass		
			6	20.89	-3.44	15.30	<=38.45	Pass		
			13	20.77	-3.44	15.18	<=38.45	Pass		
	25		0	20.89	-3.44	15.30	<=38.45	Pass		
	846.5		1	0	21.71	-3.44	16.12	<=38.45	Pass	
				13	21.87	-3.44	16.28	<=38.45	Pass	
		24		21.73	-3.44	16.14	<=38.45	Pass		
		12	0	20.87	-3.44	15.28	<=38.45	Pass		
			6	20.89	-3.44	15.30	<=38.45	Pass		
			13	20.69	-3.44	15.10	<=38.45	Pass		
		25	0	20.77	-3.44	15.18	<=38.45	Pass		
		16QAM	826.5	1	0	20.94	-3.44	15.35	<=38.45	Pass
					13	21.04	-3.44	15.45	<=38.45	Pass
	24				20.91	-3.44	15.32	<=38.45	Pass	
12	0			19.86	-3.44	14.27	<=38.45	Pass		
	6			19.93	-3.44	14.34	<=38.45	Pass		
	13			19.97	-3.44	14.38	<=38.45	Pass		
25	0			19.90	-3.44	14.31	<=38.45	Pass		
836.5	1			0	21.04	-3.44	15.45	<=38.45	Pass	
				13	21.17	-3.44	15.58	<=38.45	Pass	
			24	21.03	-3.44	15.44	<=38.45	Pass		
	12		0	19.99	-3.44	14.40	<=38.45	Pass		
			6	19.98	-3.44	14.39	<=38.45	Pass		
			13	19.84	-3.44	14.25	<=38.45	Pass		
	25		0	19.90	-3.44	14.31	<=38.45	Pass		
	846.5		1	0	20.53	-3.44	14.94	<=38.45	Pass	
				13	20.73	-3.44	15.14	<=38.45	Pass	
24				20.55	-3.44	14.96	<=38.45	Pass		
12			0	19.86	-3.44	14.27	<=38.45	Pass		
			6	19.90	-3.44	14.31	<=38.45	Pass		
			13	19.64	-3.44	14.05	<=38.45	Pass		
25			0	19.81	-3.44	14.22	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.4 B5\_10MHz\_ERP

### 1.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	21.90	-3.44	16.31	<=38.45	Pass
			25	22.17	-3.44	16.58	<=38.45	Pass

		25	49	21.87	-3.44	16.28	<=38.45	Pass	
			0	20.93	-3.44	15.34	<=38.45	Pass	
			13	20.99	-3.44	15.40	<=38.45	Pass	
			25	20.93	-3.44	15.34	<=38.45	Pass	
		50	0	20.94	-3.44	15.35	<=38.45	Pass	
			1	0	21.79	-3.44	16.20	<=38.45	Pass
				25	22.04	-3.44	16.45	<=38.45	Pass
		836.5	25	49	21.78	-3.44	16.19	<=38.45	Pass
				0	21.08	-3.44	15.49	<=38.45	Pass
				13	20.96	-3.44	15.37	<=38.45	Pass
	844	1	25	20.83	-3.44	15.24	<=38.45	Pass	
			50	0	20.94	-3.44	15.35	<=38.45	Pass
			0	21.74	-3.44	16.15	<=38.45	Pass	
		25	25	21.97	-3.44	16.38	<=38.45	Pass	
			49	21.77	-3.44	16.18	<=38.45	Pass	
			0	20.77	-3.44	15.18	<=38.45	Pass	
		50	13	20.86	-3.44	15.27	<=38.45	Pass	
			25	20.65	-3.44	15.06	<=38.45	Pass	
			0	20.73	-3.44	15.14	<=38.45	Pass	
	16QAM	829	1	0	20.87	-3.44	15.28	<=38.45	Pass
				25	21.11	-3.44	15.52	<=38.45	Pass
				49	20.93	-3.44	15.34	<=38.45	Pass
			25	0	19.97	-3.44	14.38	<=38.45	Pass
				13	20.06	-3.44	14.47	<=38.45	Pass
				25	20.00	-3.44	14.41	<=38.45	Pass
			50	0	19.97	-3.44	14.38	<=38.45	Pass
				1	0	20.99	-3.44	15.40	<=38.45
25					21.16	-3.44	15.57	<=38.45	Pass
836.5			49		20.90	-3.44	15.31	<=38.45	Pass
844		25	0	20.05	-3.44	14.46	<=38.45	Pass	
			13	19.96	-3.44	14.37	<=38.45	Pass	
			25	19.81	-3.44	14.22	<=38.45	Pass	
		50	0	19.91	-3.44	14.32	<=38.45	Pass	
			1	0	21.26	-3.44	15.67	<=38.45	Pass
				25	21.40	-3.44	15.81	<=38.45	Pass
		49		21.22	-3.44	15.63	<=38.45	Pass	
		25	0	19.80	-3.44	14.21	<=38.45	Pass	
			13	19.90	-3.44	14.31	<=38.45	Pass	
25			19.72	-3.44	14.13	<=38.45	Pass		
50		0	19.72	-3.44	14.13	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 B5\_1.4MHz

#### 2.1.1 Test Result

Band: 5 / 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	824.7	6	0	20	3.27	14.849	0.0180	-2.5 to 2.5	Pass				
									3.85	6.151	0.0075	-2.5 to 2.5	Pass
									4.43	3.705	0.0045	-2.5 to 2.5	Pass

				-30	3.85	1.616	0.0020	-2.5 to 2.5	Pass			
				-20	3.85	-1.402	-0.0017	-2.5 to 2.5	Pass			
				-10	3.85	-4.234	-0.0051	-2.5 to 2.5	Pass			
				0	3.85	-6.952	-0.0084	-2.5 to 2.5	Pass			
				10	3.85	-7.367	-0.0089	-2.5 to 2.5	Pass			
				30	3.85	-6.766	-0.0082	-2.5 to 2.5	Pass			
				40	3.85	-5.336	-0.0065	-2.5 to 2.5	Pass			
	50	3.85	-4.292	-0.0052	-2.5 to 2.5	Pass						
	836.5	6	0	20	3.27	-9.356	-0.0112	-2.5 to 2.5	Pass			
					3.85	-4.735	-0.0057	-2.5 to 2.5	Pass			
					4.43	-0.658	-0.0008	-2.5 to 2.5	Pass			
				-30	3.85	2.575	0.0031	-2.5 to 2.5	Pass			
		-20	3.85	-4.992	-0.0060	-2.5 to 2.5	Pass					
		-10	3.85	-2.961	-0.0035	-2.5 to 2.5	Pass					
		0	3.85	-1.345	-0.0016	-2.5 to 2.5	Pass					
		10	3.85	-4.563	-0.0055	-2.5 to 2.5	Pass					
		30	3.85	-2.947	-0.0035	-2.5 to 2.5	Pass					
		40	3.85	-6.366	-0.0076	-2.5 to 2.5	Pass					
		50	3.85	1.016	0.0012	-2.5 to 2.5	Pass					
		848.3	6	0	20	3.27	-7.639	-0.0090	-2.5 to 2.5	Pass		
						3.85	-9.212	-0.0109	-2.5 to 2.5	Pass		
						4.43	-5.307	-0.0063	-2.5 to 2.5	Pass		
	-30				3.85	-9.685	-0.0114	-2.5 to 2.5	Pass			
	-20		3.85	-7.410	-0.0087	-2.5 to 2.5	Pass					
	-10		3.85	-11.415	-0.0135	-2.5 to 2.5	Pass					
	0		3.85	-7.038	-0.0083	-2.5 to 2.5	Pass					
	10		3.85	-6.866	-0.0081	-2.5 to 2.5	Pass					
30	3.85		-7.467	-0.0088	-2.5 to 2.5	Pass						
40	3.85		-6.280	-0.0074	-2.5 to 2.5	Pass						
50	3.85	-4.106	-0.0048	-2.5 to 2.5	Pass							
16QAM	824.7	6	0	20	3.27	-5.622	-0.0068	-2.5 to 2.5	Pass			
					3.85	-5.937	-0.0072	-2.5 to 2.5	Pass			
					4.43	-6.924	-0.0084	-2.5 to 2.5	Pass			
				-30	3.85	-9.041	-0.0110	-2.5 to 2.5	Pass			
				-20	3.85	-1.531	-0.0019	-2.5 to 2.5	Pass			
				-10	3.85	-10.214	-0.0124	-2.5 to 2.5	Pass			
				0	3.85	-6.952	-0.0084	-2.5 to 2.5	Pass			
				10	3.85	-1.588	-0.0019	-2.5 to 2.5	Pass			
				30	3.85	-6.223	-0.0075	-2.5 to 2.5	Pass			
				40	3.85	-6.595	-0.0080	-2.5 to 2.5	Pass			
				50	3.85	-5.579	-0.0068	-2.5 to 2.5	Pass			
				836.5	6	0	20	3.27	0.057	0.0001	-2.5 to 2.5	Pass
								3.85	0.501	0.0006	-2.5 to 2.5	Pass
								4.43	-3.433	-0.0041	-2.5 to 2.5	Pass
	-30	3.85	-8.612				-0.0103	-2.5 to 2.5	Pass			
	-20	3.85	-8.841		-0.0106	-2.5 to 2.5	Pass					
	-10	3.85	-2.561		-0.0031	-2.5 to 2.5	Pass					
	0	3.85	-1.130		-0.0014	-2.5 to 2.5	Pass					
	10	3.85	-5.965		-0.0071	-2.5 to 2.5	Pass					
	30	3.85	-5.007		-0.0060	-2.5 to 2.5	Pass					
	40	3.85	-2.704		-0.0032	-2.5 to 2.5	Pass					
	50	3.85	-3.633	-0.0043	-2.5 to 2.5	Pass						
	848.3	6	0	20	3.27	-7.753	-0.0091	-2.5 to 2.5	Pass			
					3.85	-5.751	-0.0068	-2.5 to 2.5	Pass			
					4.43	-9.184	-0.0108	-2.5 to 2.5	Pass			
	-30	3.85	-6.423	-0.0076	-2.5 to 2.5	Pass						
	-20	3.85	-3.133	-0.0037	-2.5 to 2.5	Pass						

				-10	3.85	-3.448	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-10.500	-0.0124	-2.5 to 2.5	Pass
				10	3.85	-9.427	-0.0111	-2.5 to 2.5	Pass
				30	3.85	-7.553	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-2.961	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-6.552	-0.0077	-2.5 to 2.5	Pass

## 2.2 B5\_3MHz

### 2.2.1 Test Result

Band: 5 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	825.5	15	0	20	3.27	-0.930	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.844	-0.0010	-2.5 to 2.5	Pass
					4.43	-2.217	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	0.601	0.0007	-2.5 to 2.5	Pass
				-20	3.85	-5.422	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-1.945	-0.0024	-2.5 to 2.5	Pass
				0	3.85	-0.858	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-4.463	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-5.436	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-3.562	-0.0043	-2.5 to 2.5	Pass
	50	3.85	-7.424	-0.0090	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-9.656	-0.0115	-2.5 to 2.5	Pass
					3.85	-3.033	-0.0036	-2.5 to 2.5	Pass
					4.43	-0.057	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-4.263	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-7.839	-0.0094	-2.5 to 2.5	Pass
				-10	3.85	-5.035	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-11.702	-0.0140	-2.5 to 2.5	Pass
				10	3.85	-10.629	-0.0127	-2.5 to 2.5	Pass
				30	3.85	-7.854	-0.0094	-2.5 to 2.5	Pass
				40	3.85	-5.693	-0.0068	-2.5 to 2.5	Pass
	50	3.85	-3.719	-0.0044	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-8.011	-0.0095	-2.5 to 2.5	Pass
					3.85	1.545	0.0018	-2.5 to 2.5	Pass
					4.43	-3.505	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-3.433	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-7.610	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-9.971	-0.0118	-2.5 to 2.5	Pass
				0	3.85	-7.439	-0.0088	-2.5 to 2.5	Pass
				10	3.85	-7.668	-0.0090	-2.5 to 2.5	Pass
30				3.85	-9.241	-0.0109	-2.5 to 2.5	Pass	
40				3.85	-6.380	-0.0075	-2.5 to 2.5	Pass	
50	3.85	-1.202	-0.0014	-2.5 to 2.5	Pass				
16QAM	825.5	15	0	20	3.27	-1.702	-0.0021	-2.5 to 2.5	Pass
					3.85	-13.018	-0.0158	-2.5 to 2.5	Pass
					4.43	-7.710	-0.0093	-2.5 to 2.5	Pass
				-30	3.85	-1.831	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-4.935	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-7.968	-0.0097	-2.5 to 2.5	Pass
				0	3.85	-5.150	-0.0062	-2.5 to 2.5	Pass
10	3.85	-10.085	-0.0122	-2.5 to 2.5	Pass				

	836.5	15	0	30	3.85	-1.273	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-8.597	-0.0104	-2.5 to 2.5	Pass
				50	3.85	-9.727	-0.0118	-2.5 to 2.5	Pass
				20	3.27	-6.309	-0.0075	-2.5 to 2.5	Pass
					3.85	-7.596	-0.0091	-2.5 to 2.5	Pass
					4.43	-6.537	-0.0078	-2.5 to 2.5	Pass
				-30	3.85	-2.060	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-7.238	-0.0087	-2.5 to 2.5	Pass
				-10	3.85	-6.738	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-6.323	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-11.230	-0.0134	-2.5 to 2.5	Pass
				30	3.85	-12.102	-0.0145	-2.5 to 2.5	Pass
	40	3.85	-5.836	-0.0070	-2.5 to 2.5	Pass			
	50	3.85	-7.324	-0.0088	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-6.509	-0.0077	-2.5 to 2.5	Pass
					3.85	-3.591	-0.0042	-2.5 to 2.5	Pass
					4.43	-11.287	-0.0133	-2.5 to 2.5	Pass
				-30	3.85	-9.727	-0.0115	-2.5 to 2.5	Pass
				-20	3.85	-12.102	-0.0143	-2.5 to 2.5	Pass
				-10	3.85	-3.262	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-6.022	-0.0071	-2.5 to 2.5	Pass
				10	3.85	-7.038	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-7.882	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-7.510	-0.0089	-2.5 to 2.5	Pass
50				3.85	-3.548	-0.0042	-2.5 to 2.5	Pass	

## 2.3 B5\_5MHz

### 2.3.1 Test Result

Band: 5 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	826.5	25	0	20	3.27	-5.336	-0.0065	-2.5 to 2.5	Pass
					3.85	-6.037	-0.0073	-2.5 to 2.5	Pass
					4.43	-3.362	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-3.791	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-2.131	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-6.509	-0.0079	-2.5 to 2.5	Pass
				0	3.85	-0.873	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-4.177	-0.0051	-2.5 to 2.5	Pass
				30	3.85	-6.237	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-5.965	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-5.922	-0.0072	-2.5 to 2.5	Pass
				836.5	25	0	20	3.27	-8.597
	3.85	-4.907	-0.0059					-2.5 to 2.5	Pass
	4.43	-2.918	-0.0035					-2.5 to 2.5	Pass
	-30	3.85	-4.735				-0.0057	-2.5 to 2.5	Pass
	-20	3.85	-3.161				-0.0038	-2.5 to 2.5	Pass
	-10	3.85	-4.978				-0.0060	-2.5 to 2.5	Pass
	0	3.85	-2.532				-0.0030	-2.5 to 2.5	Pass
	10	3.85	-6.208				-0.0074	-2.5 to 2.5	Pass
	30	3.85	-1.760				-0.0021	-2.5 to 2.5	Pass
	40	3.85	-3.505				-0.0042	-2.5 to 2.5	Pass
	50	3.85	-6.037				-0.0072	-2.5 to 2.5	Pass

	846.5	25	0	20	3.27	-11.301	-0.0134	-2.5 to 2.5	Pass						
					3.85	-9.828	-0.0116	-2.5 to 2.5	Pass						
					4.43	-0.772	-0.0009	-2.5 to 2.5	Pass						
				-30	3.85	0.701	0.0008	-2.5 to 2.5	Pass						
										-20	3.85	-6.108	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-4.206	-0.0050	-2.5 to 2.5	Pass						
										10	3.85	-1.874	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-5.536	-0.0065	-2.5 to 2.5	Pass						
40	3.85	-1.888	-0.0022	-2.5 to 2.5	Pass										
50	3.85	-9.670	-0.0114	-2.5 to 2.5	Pass										
16QAM	826.5	25	0	20	3.27	-0.601	-0.0007	-2.5 to 2.5	Pass						
					3.85	-3.462	-0.0042	-2.5 to 2.5	Pass						
					4.43	-8.769	-0.0106	-2.5 to 2.5	Pass						
				-30	3.85	-5.436	-0.0066	-2.5 to 2.5	Pass						
										-20	3.85	-7.095	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-5.493	-0.0066	-2.5 to 2.5	Pass						
										10	3.85	-8.841	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-6.695	-0.0081	-2.5 to 2.5	Pass						
	40	3.85	-8.698	-0.0105	-2.5 to 2.5	Pass									
	50	3.85	-3.448	-0.0042	-2.5 to 2.5	Pass									
	836.5	25	0	20	3.27	-6.022	-0.0072	-2.5 to 2.5	Pass						
					3.85	-0.672	-0.0008	-2.5 to 2.5	Pass						
					4.43	-3.161	-0.0038	-2.5 to 2.5	Pass						
				-30	3.85	-1.230	-0.0015	-2.5 to 2.5	Pass						
										-20	3.85	-3.104	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-5.765	-0.0069	-2.5 to 2.5	Pass						
10										3.85	-8.712	-0.0104	-2.5 to 2.5	Pass	
30				3.85	-0.529	-0.0006	-2.5 to 2.5	Pass							
40	3.85	-5.550	-0.0066	-2.5 to 2.5	Pass										
50	3.85	-4.463	-0.0053	-2.5 to 2.5	Pass										
846.5	25	0	20	3.27	-5.937	-0.0070	-2.5 to 2.5	Pass							
				3.85	-4.663	-0.0055	-2.5 to 2.5	Pass							
				4.43	-10.114	-0.0119	-2.5 to 2.5	Pass							
			-30	3.85	-5.064	-0.0060	-2.5 to 2.5	Pass							
									-20	3.85	-11.144	-0.0132	-2.5 to 2.5	Pass	
															-10
			0	3.85	-7.911	-0.0093	-2.5 to 2.5	Pass							
									10	3.85	-3.433	-0.0041	-2.5 to 2.5	Pass	
			30	3.85	-6.394	-0.0076	-2.5 to 2.5	Pass							
40	3.85	-6.037	-0.0071	-2.5 to 2.5	Pass										
50	3.85	-1.416	-0.0017	-2.5 to 2.5	Pass										

## 2.4 B5\_10MHz

### 2.4.1 Test Result

Band: 5 / Bandwidth: 10MHz														
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict					
		Size	Offset				Result	Limit						
QPSK	829	50	0	20	3.27	-2.961	-0.0036	-2.5 to 2.5	Pass					
										3.85	-3.548	-0.0043	-2.5 to 2.5	Pass
										4.43	-4.649	-0.0056	-2.5 to 2.5	Pass



				-30	3.85	-5.894	-0.0071	-2.5 to 2.5	Pass			
				-20	3.85	-4.935	-0.0060	-2.5 to 2.5	Pass			
				-10	3.85	-5.579	-0.0067	-2.5 to 2.5	Pass			
				0	3.85	-9.599	-0.0116	-2.5 to 2.5	Pass			
				10	3.85	-5.479	-0.0066	-2.5 to 2.5	Pass			
				30	3.85	-7.753	-0.0094	-2.5 to 2.5	Pass			
				40	3.85	-5.751	-0.0069	-2.5 to 2.5	Pass			
				50	3.85	-10.700	-0.0129	-2.5 to 2.5	Pass			
				20	3.27	-5.822	-0.0070	-2.5 to 2.5	Pass			
					3.85	-6.537	-0.0078	-2.5 to 2.5	Pass			
	4.43	-4.849	-0.0058		-2.5 to 2.5	Pass						
	-30	3.85	-4.749	-0.0057	-2.5 to 2.5	Pass						
	-20	3.85	-3.119	-0.0037	-2.5 to 2.5	Pass						
	-10	3.85	-5.865	-0.0070	-2.5 to 2.5	Pass						
	0	3.85	-7.052	-0.0084	-2.5 to 2.5	Pass						
	10	3.85	-5.608	-0.0067	-2.5 to 2.5	Pass						
	30	3.85	-1.588	-0.0019	-2.5 to 2.5	Pass						
	40	3.85	-7.138	-0.0085	-2.5 to 2.5	Pass						
	50	3.85	-7.796	-0.0093	-2.5 to 2.5	Pass						
	836.5	50	0	20	3.27	-6.752	-0.0080	-2.5 to 2.5	Pass			
					3.85	-6.552	-0.0078	-2.5 to 2.5	Pass			
					4.43	-5.479	-0.0065	-2.5 to 2.5	Pass			
				-30	3.85	-6.323	-0.0075	-2.5 to 2.5	Pass			
				-20	3.85	-5.407	-0.0064	-2.5 to 2.5	Pass			
				-10	3.85	-2.060	-0.0024	-2.5 to 2.5	Pass			
				0	3.85	-4.635	-0.0055	-2.5 to 2.5	Pass			
				10	3.85	-7.138	-0.0085	-2.5 to 2.5	Pass			
				30	3.85	-3.376	-0.0040	-2.5 to 2.5	Pass			
				40	3.85	-4.134	-0.0049	-2.5 to 2.5	Pass			
	50	3.85	-3.991	-0.0047	-2.5 to 2.5	Pass						
844	50	0	20	3.27	-8.411	-0.0101	-2.5 to 2.5	Pass				
				3.85	-4.764	-0.0057	-2.5 to 2.5	Pass				
				4.43	-2.718	-0.0033	-2.5 to 2.5	Pass				
			-30	3.85	-6.208	-0.0075	-2.5 to 2.5	Pass				
			-20	3.85	-4.978	-0.0060	-2.5 to 2.5	Pass				
			-10	3.85	-7.410	-0.0089	-2.5 to 2.5	Pass				
			0	3.85	-7.181	-0.0087	-2.5 to 2.5	Pass				
			10	3.85	-3.490	-0.0042	-2.5 to 2.5	Pass				
			30	3.85	-5.322	-0.0064	-2.5 to 2.5	Pass				
			40	3.85	-7.110	-0.0086	-2.5 to 2.5	Pass				
50	3.85	-5.393	-0.0065	-2.5 to 2.5	Pass							
16QAM	829	50	0	20	3.27	-4.506	-0.0054	-2.5 to 2.5	Pass			
					3.85	-2.904	-0.0035	-2.5 to 2.5	Pass			
					4.43	-2.146	-0.0026	-2.5 to 2.5	Pass			
				-30	3.85	-6.251	-0.0075	-2.5 to 2.5	Pass			
				-20	3.85	-7.081	-0.0085	-2.5 to 2.5	Pass			
				-10	3.85	-6.623	-0.0079	-2.5 to 2.5	Pass			
				0	3.85	-3.548	-0.0042	-2.5 to 2.5	Pass			
				10	3.85	-9.871	-0.0118	-2.5 to 2.5	Pass			
				30	3.85	-8.154	-0.0097	-2.5 to 2.5	Pass			
				40	3.85	-5.493	-0.0066	-2.5 to 2.5	Pass			
	50	3.85	-6.638	-0.0079	-2.5 to 2.5	Pass						
	836.5	50	0	20	3.27	-7.095	-0.0084	-2.5 to 2.5	Pass			
					3.85	-7.982	-0.0095	-2.5 to 2.5	Pass			
					4.43	-9.270	-0.0110	-2.5 to 2.5	Pass			
				-30	3.85	-5.622	-0.0067	-2.5 to 2.5	Pass			
				-20	3.85	-3.090	-0.0037	-2.5 to 2.5	Pass			
				844	50	0	20	3.27	-7.095	-0.0084	-2.5 to 2.5	Pass
								3.85	-7.982	-0.0095	-2.5 to 2.5	Pass
								4.43	-9.270	-0.0110	-2.5 to 2.5	Pass
							-30	3.85	-5.622	-0.0067	-2.5 to 2.5	Pass
							-20	3.85	-3.090	-0.0037	-2.5 to 2.5	Pass

				-10	3.85	-5.479	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-5.307	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-4.992	-0.0059	-2.5 to 2.5	Pass
				30	3.85	-6.208	-0.0074	-2.5 to 2.5	Pass
				40	3.85	-5.507	-0.0065	-2.5 to 2.5	Pass
				50	3.85	-2.303	-0.0027	-2.5 to 2.5	Pass

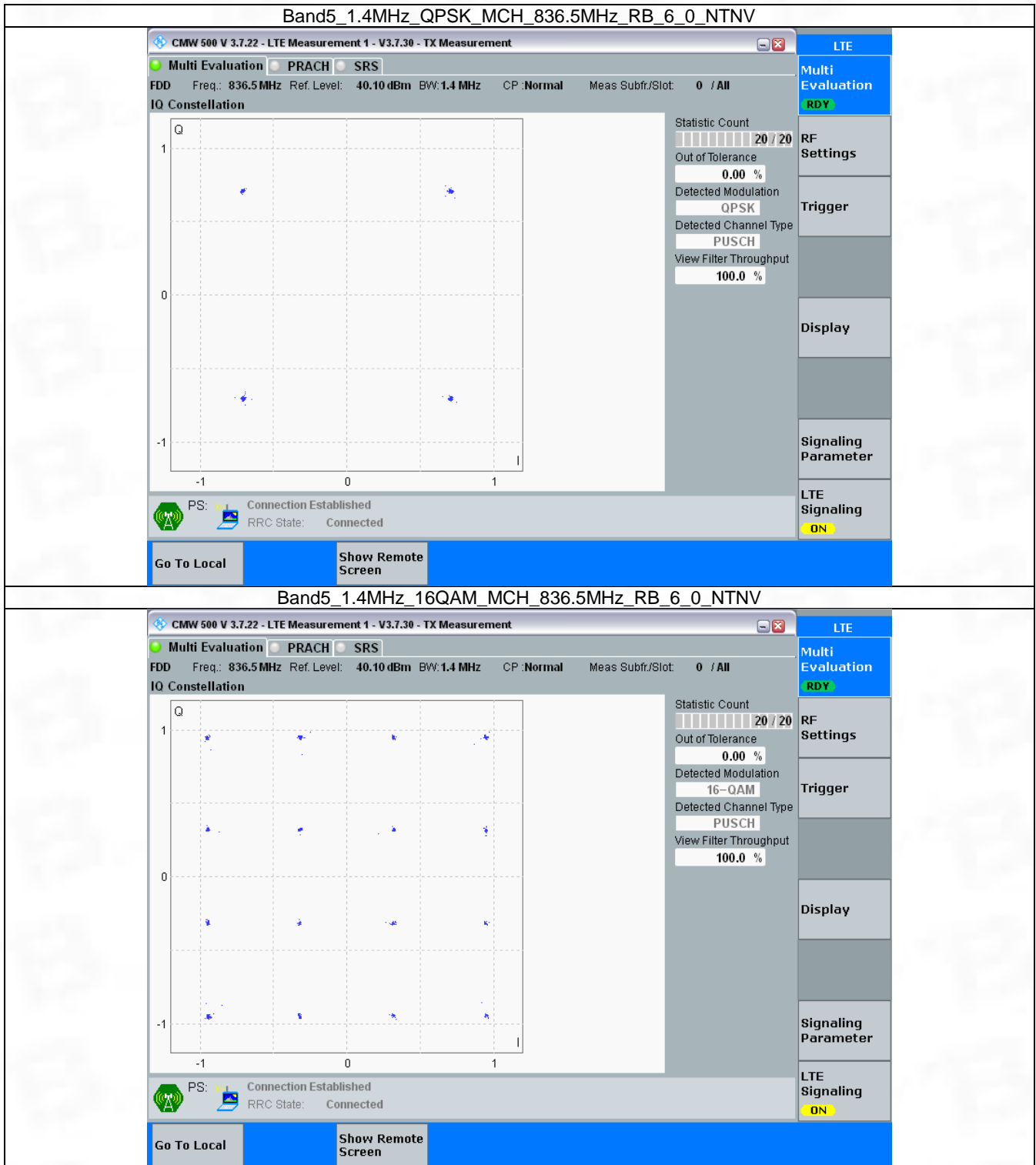
### 3. Modulation Characteristics

#### 3.1 B5\_1.4MHz

##### 3.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	6	0	Refer To Test Graph		Pass
16QAM	836.5	6	0	Refer To Test Graph		Pass

### 3.1.2 Test Graph

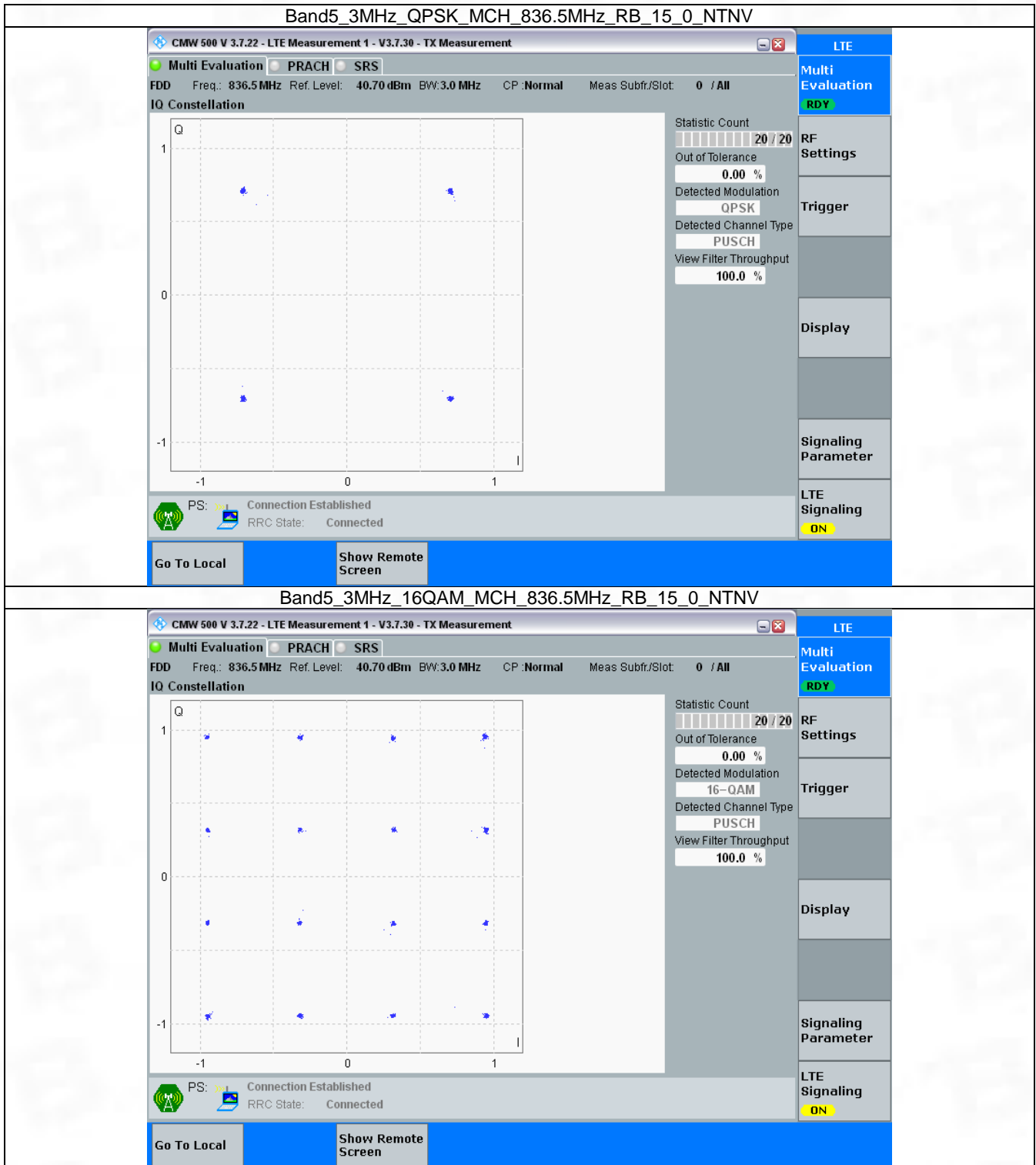


## 3.2 B5\_3MHz

### 3.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	15	0	Refer To Test Graph		Pass
16QAM	836.5	15	0	Refer To Test Graph		Pass

### 3.2.2 Test Graph

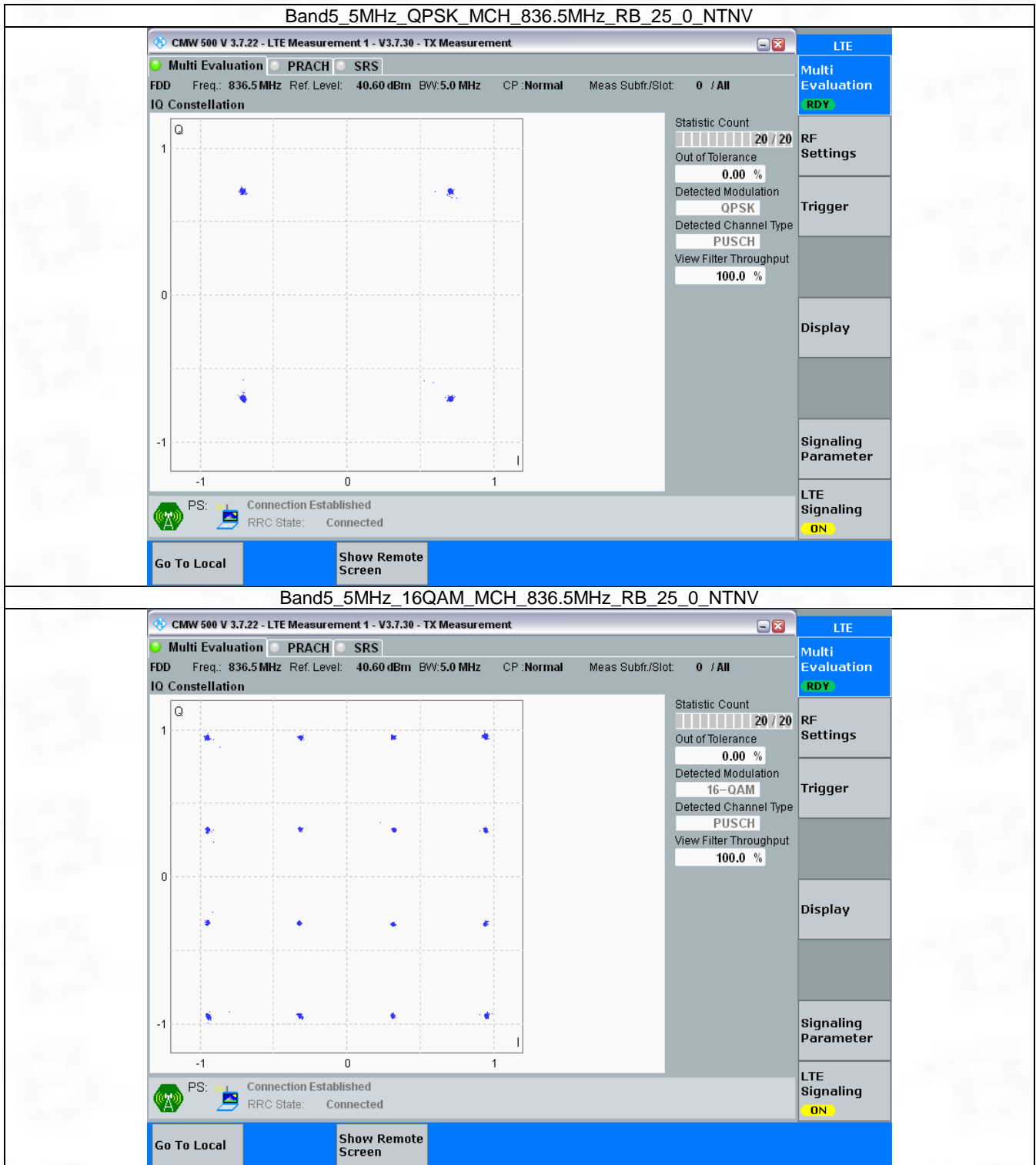


### 3.3 B5\_5MHz

#### 3.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

### 3.3.2 Test Graph



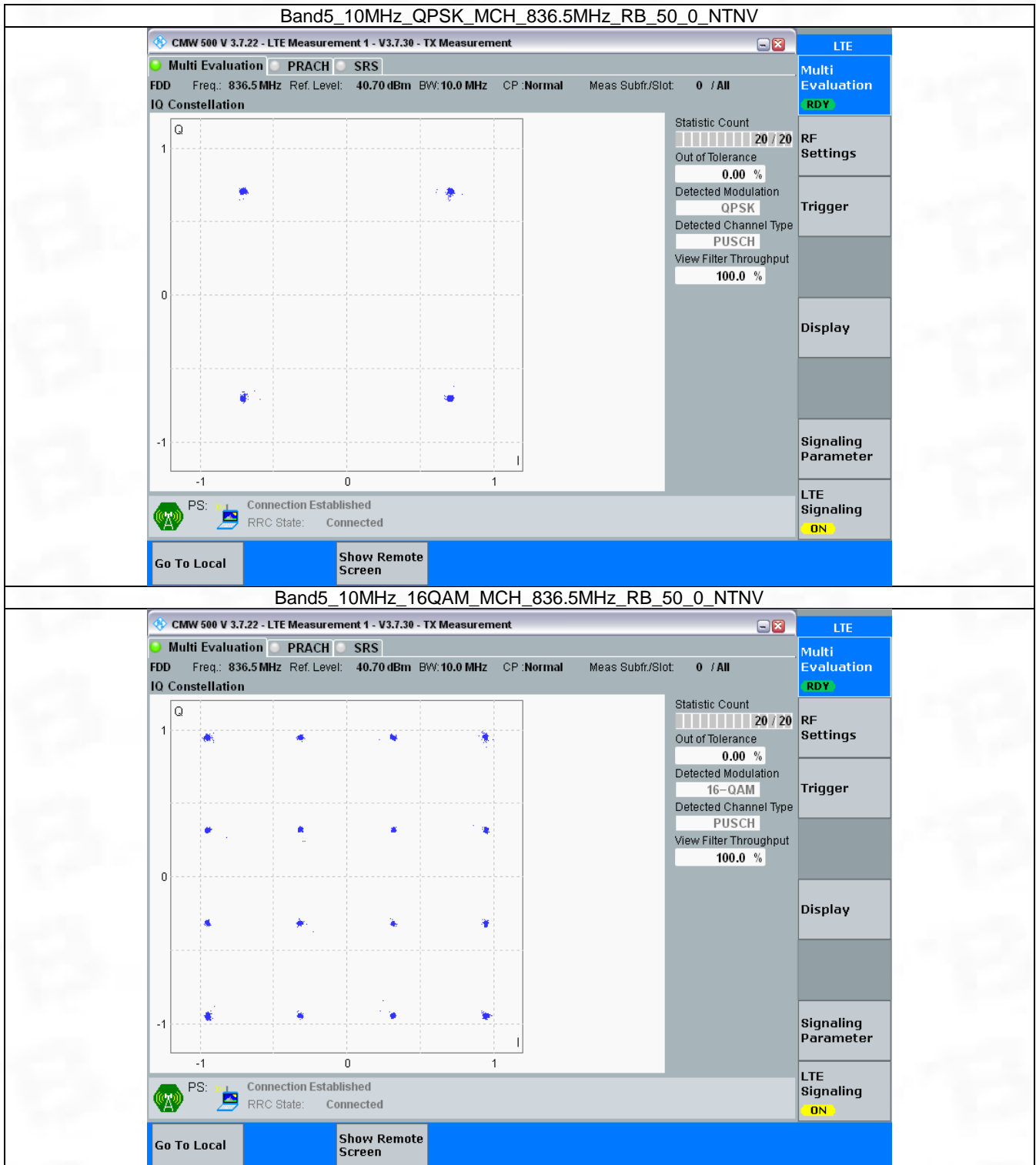
### 3.4 B5\_10MHz

#### 3.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass



### 3.4.2 Test Graph



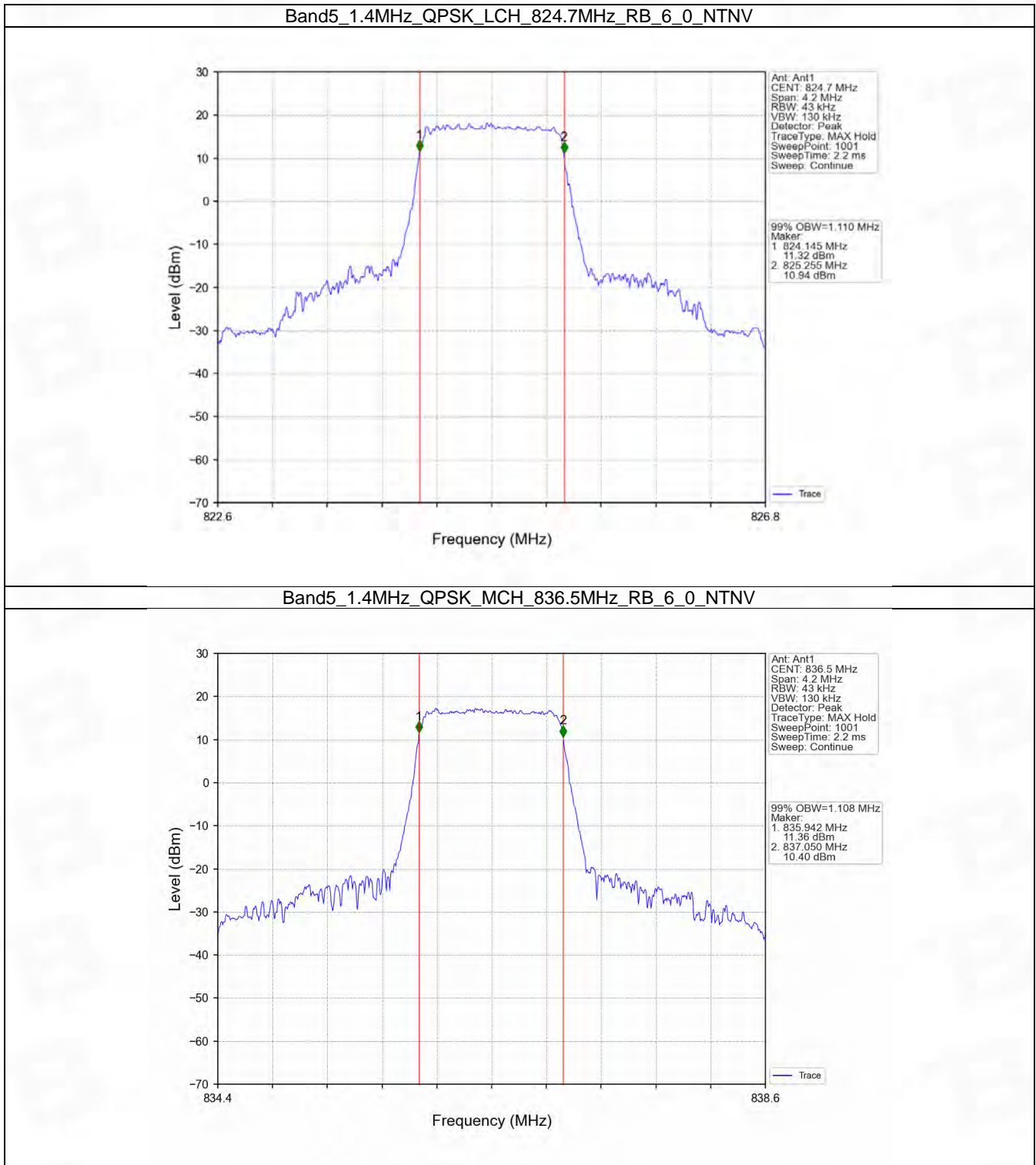
## 4. 99% & 26dB Bandwidth

### 4.1 Band5\_OBW

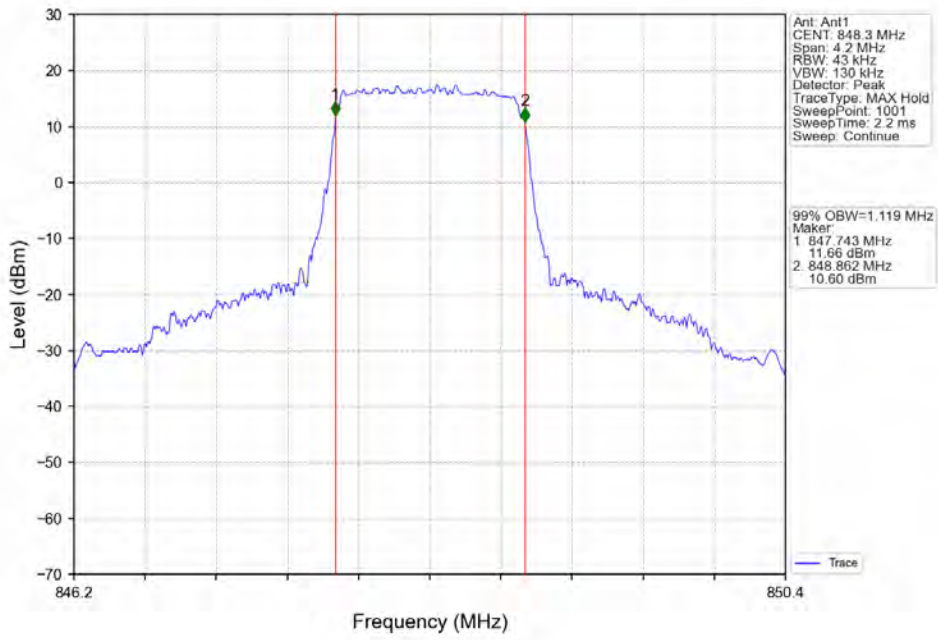
#### 4.1.1 Test Result

Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.110	/	Pass
		836.5	6	0	1.108	/	Pass
		848.3	6	0	1.119	/	Pass
	16QAM	824.7	6	0	1.105	/	Pass
		836.5	6	0	1.110	/	Pass
		848.3	6	0	1.106	/	Pass
3	QPSK	825.5	15	0	2.718	/	Pass
		836.5	15	0	2.726	/	Pass
		847.5	15	0	2.727	/	Pass
	16QAM	825.5	15	0	2.726	/	Pass
		836.5	15	0	2.724	/	Pass
		847.5	15	0	2.722	/	Pass
5	QPSK	826.5	25	0	4.556	/	Pass
		836.5	25	0	4.556	/	Pass
		846.5	25	0	4.567	/	Pass
	16QAM	826.5	25	0	4.577	/	Pass
		836.5	25	0	4.592	/	Pass
		846.5	25	0	4.547	/	Pass
10	QPSK	829	50	0	9.059	/	Pass
		836.5	50	0	9.077	/	Pass
		844	50	0	9.058	/	Pass
	16QAM	829	50	0	9.082	/	Pass
		836.5	50	0	9.052	/	Pass
		844	50	0	9.045	/	Pass

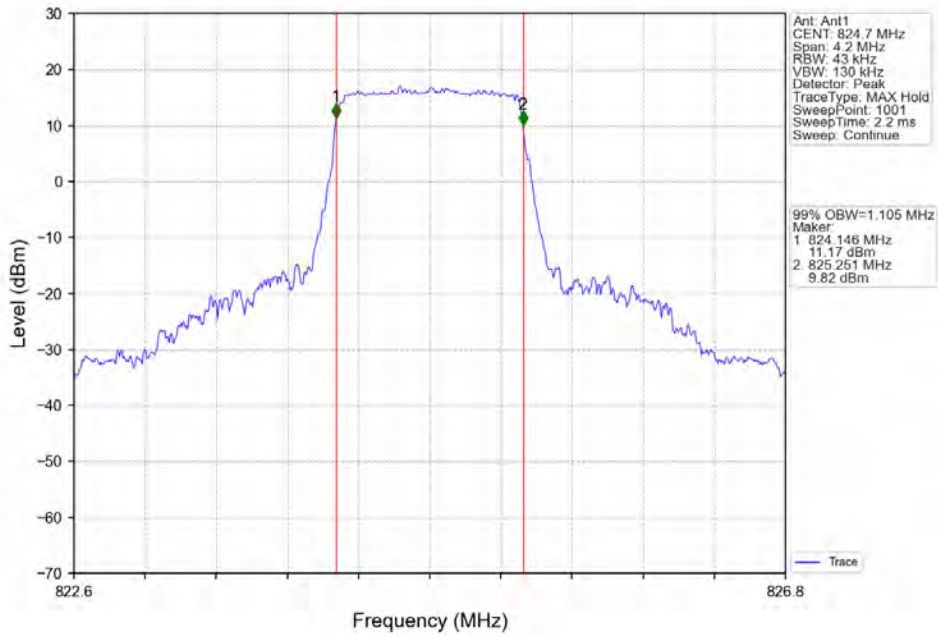
### 4.1.2 Test Graph



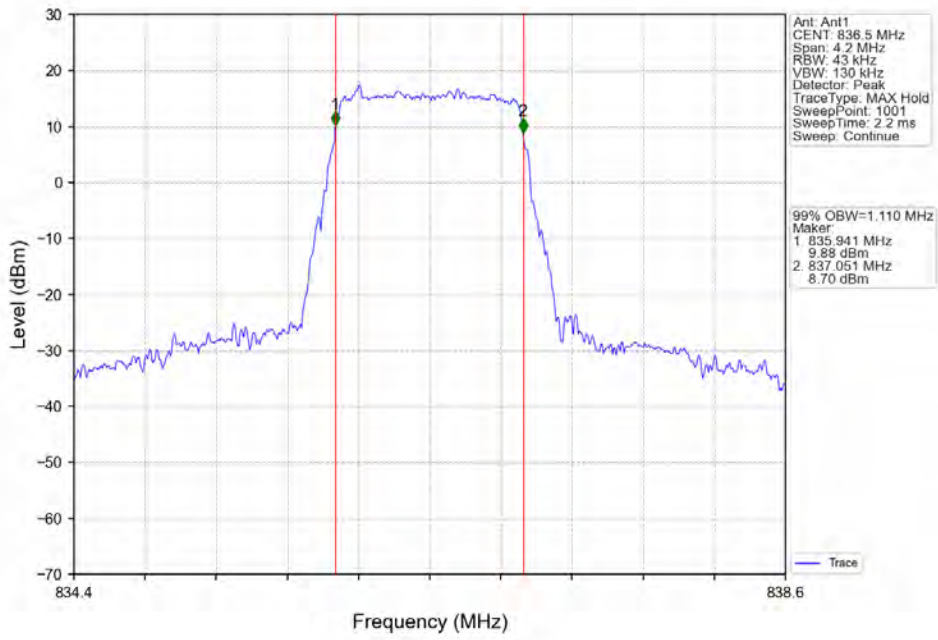
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



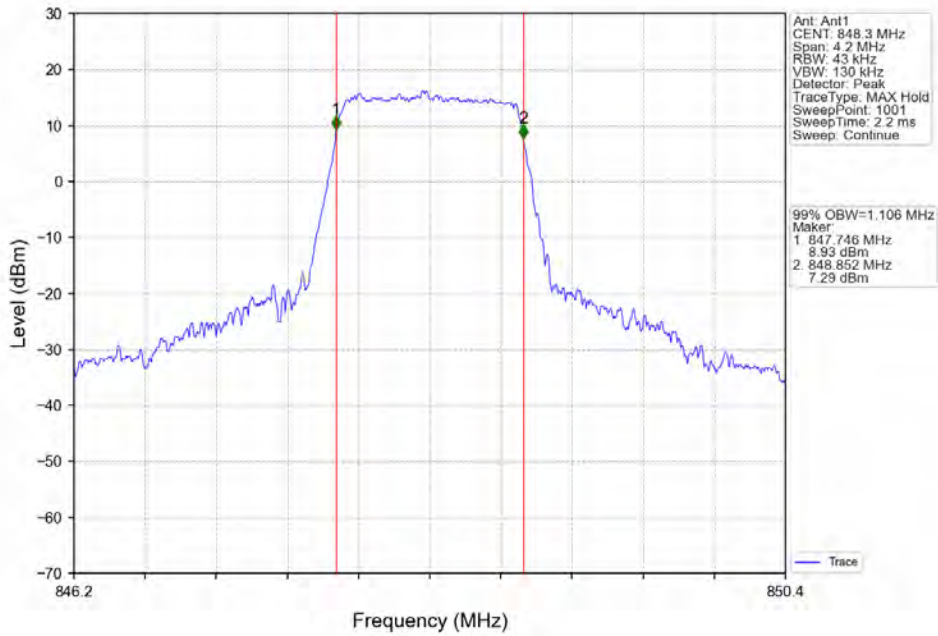
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



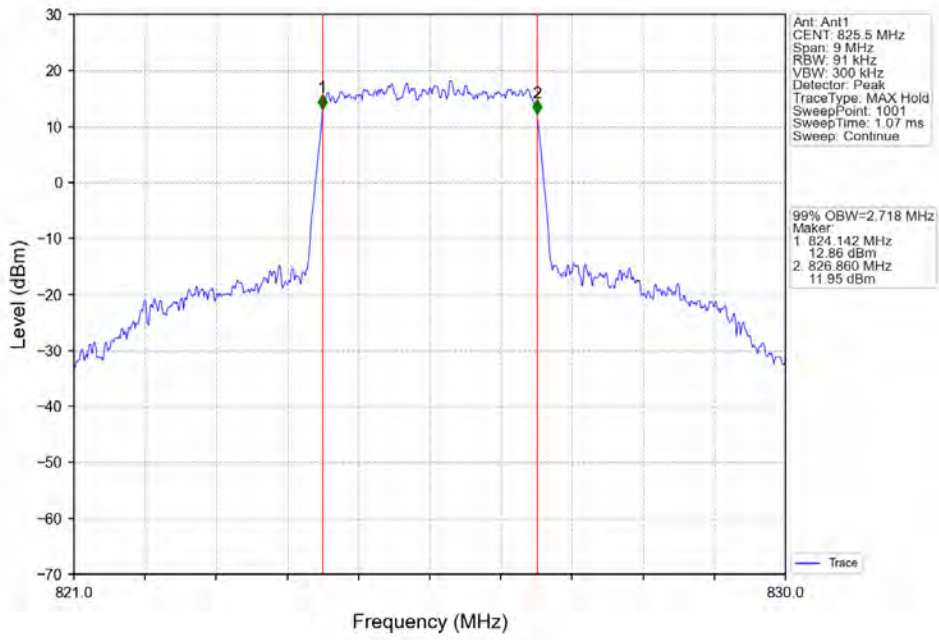
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



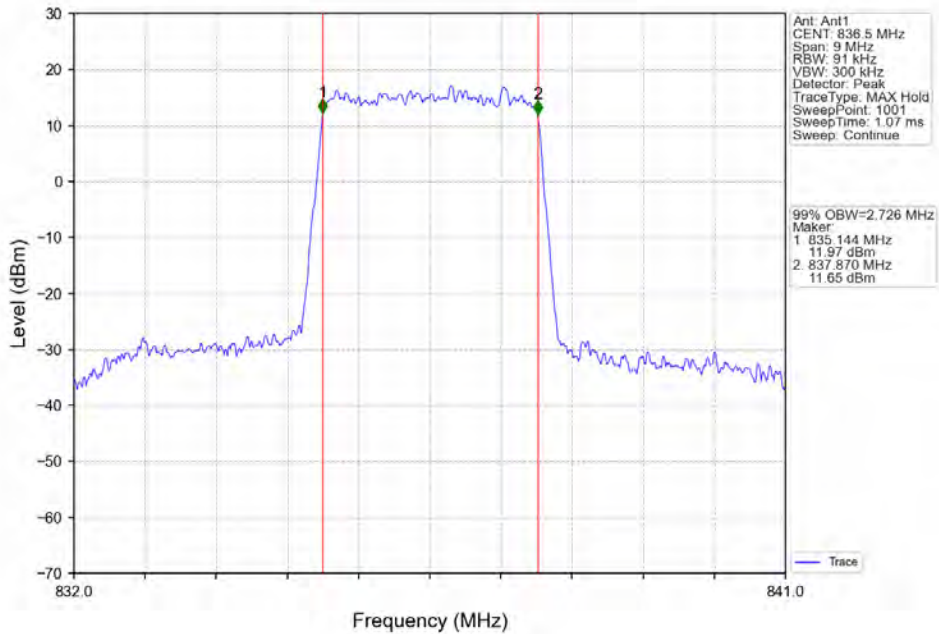
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



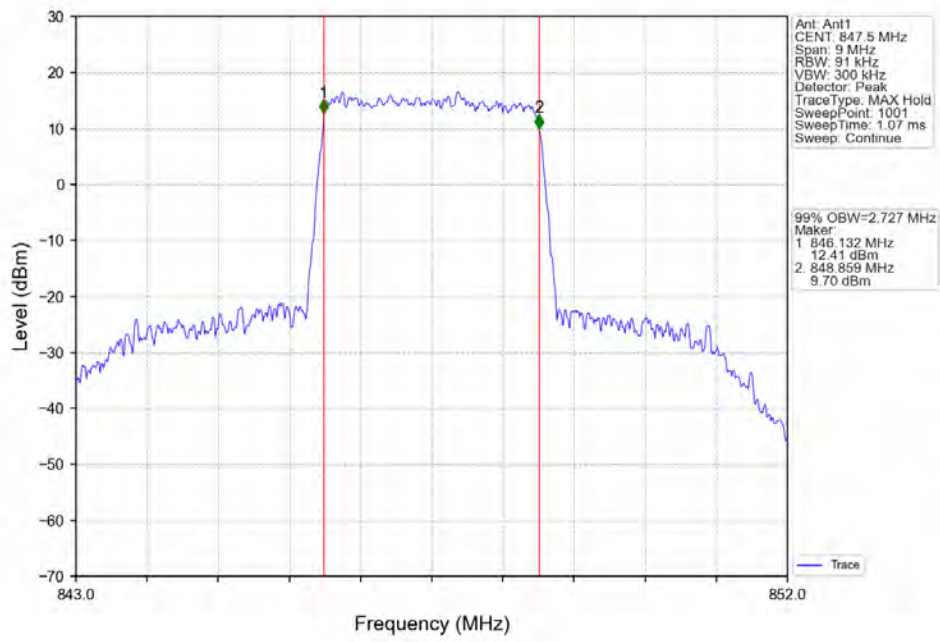
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



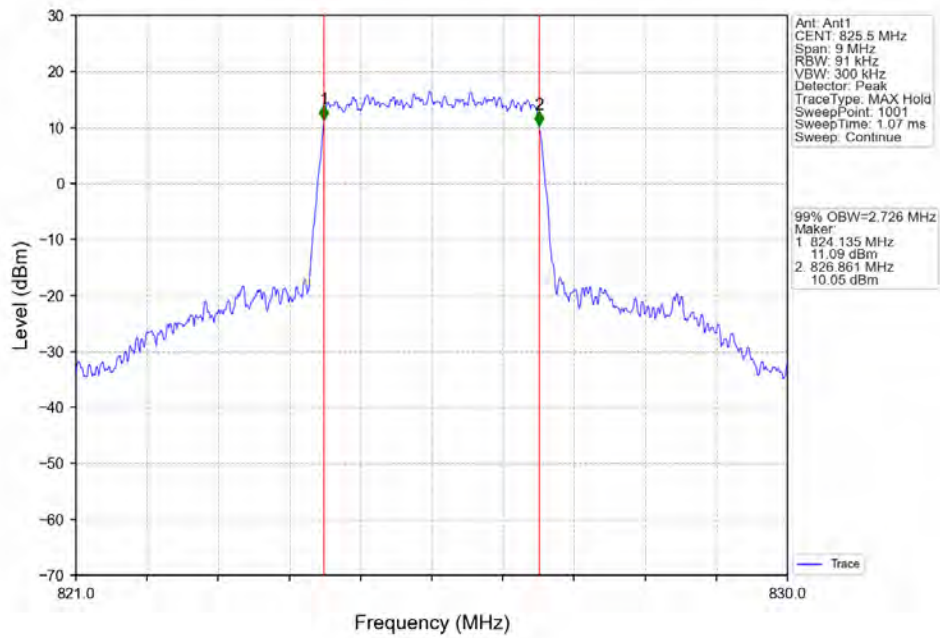
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



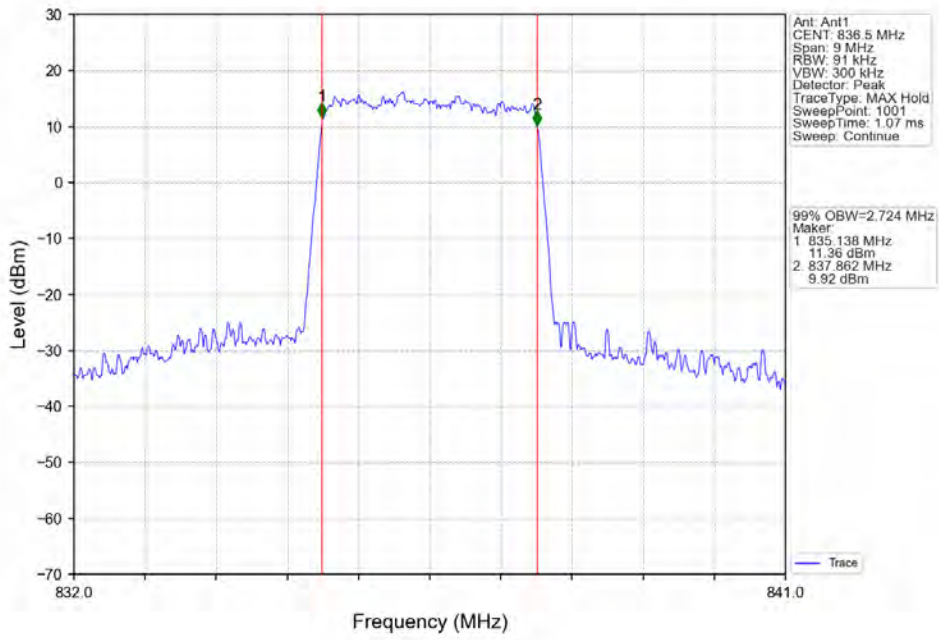
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



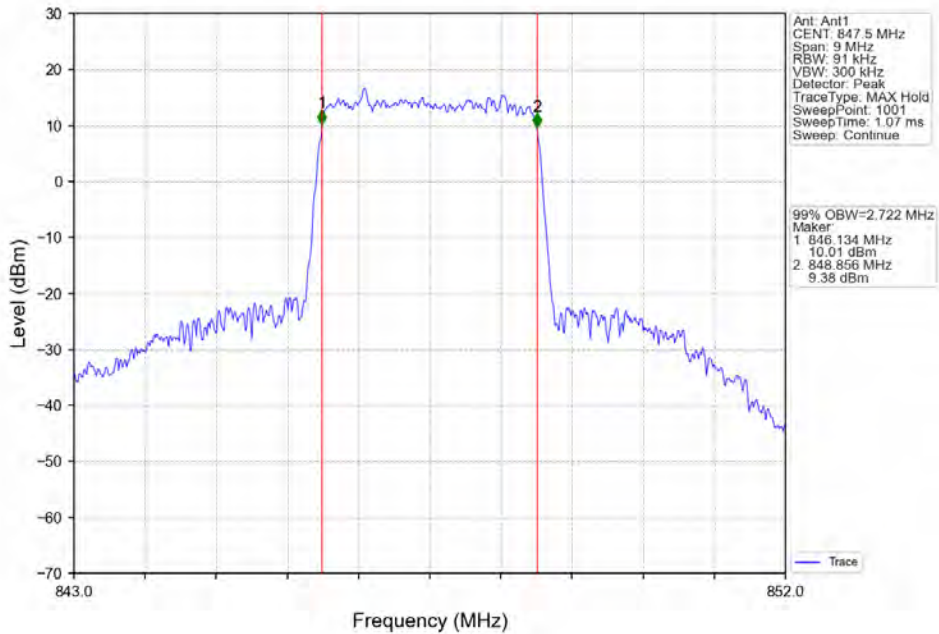
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

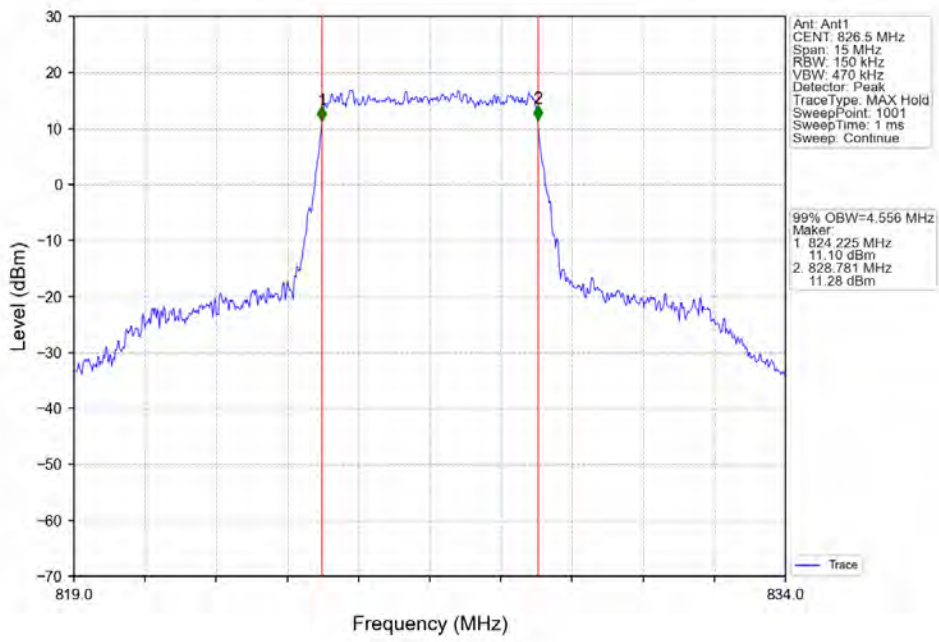


Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

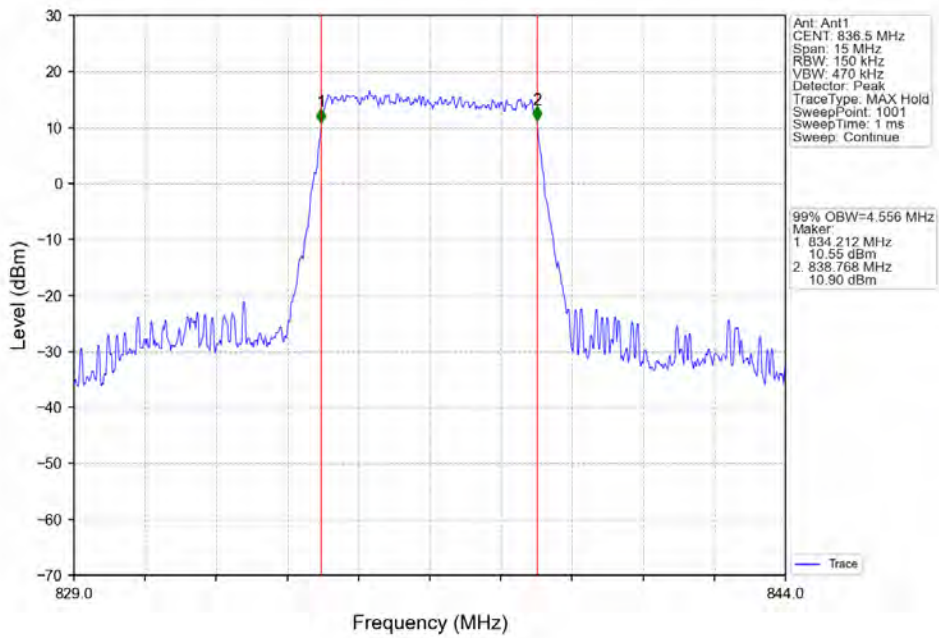




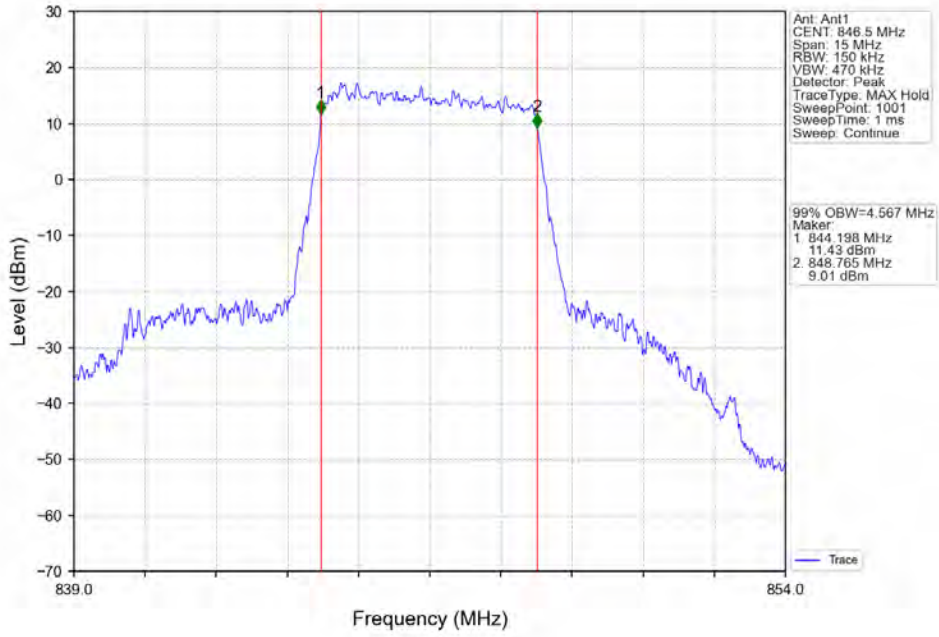
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



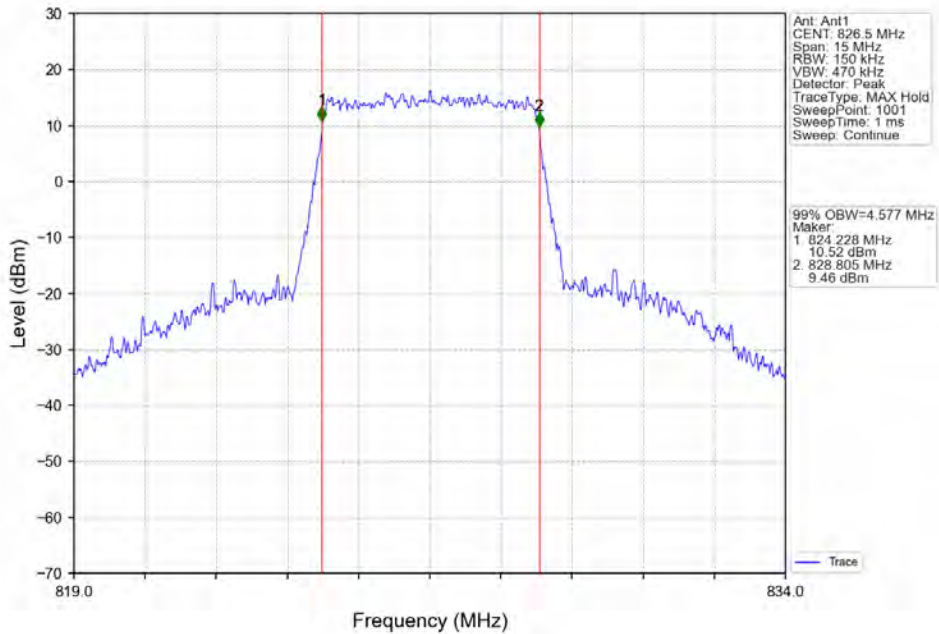
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



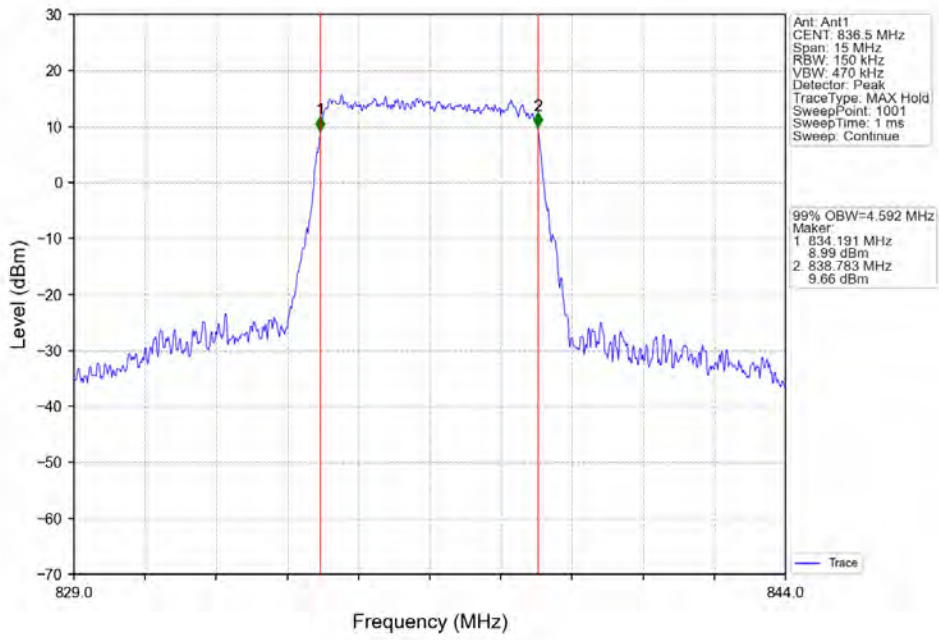
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



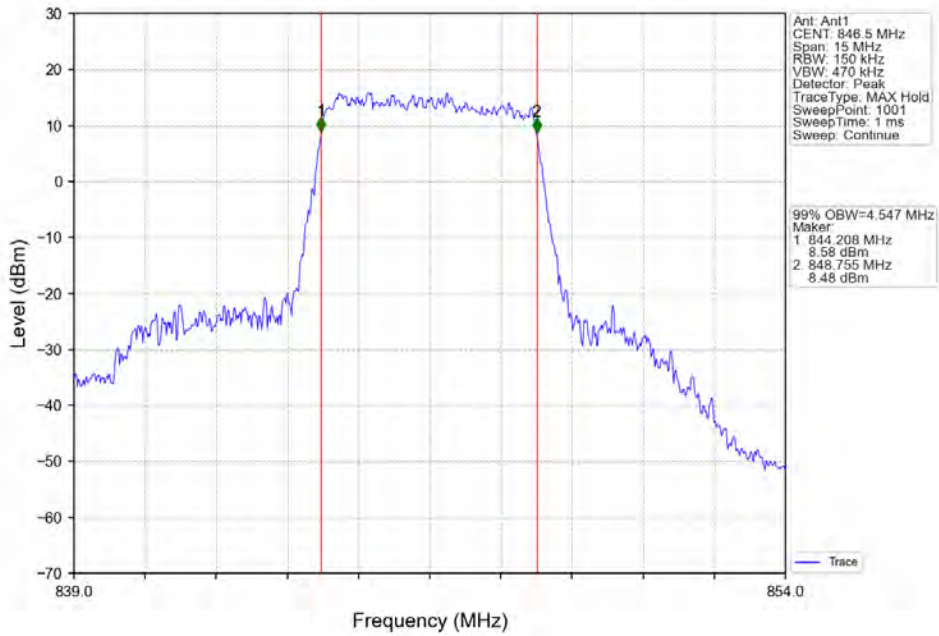
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



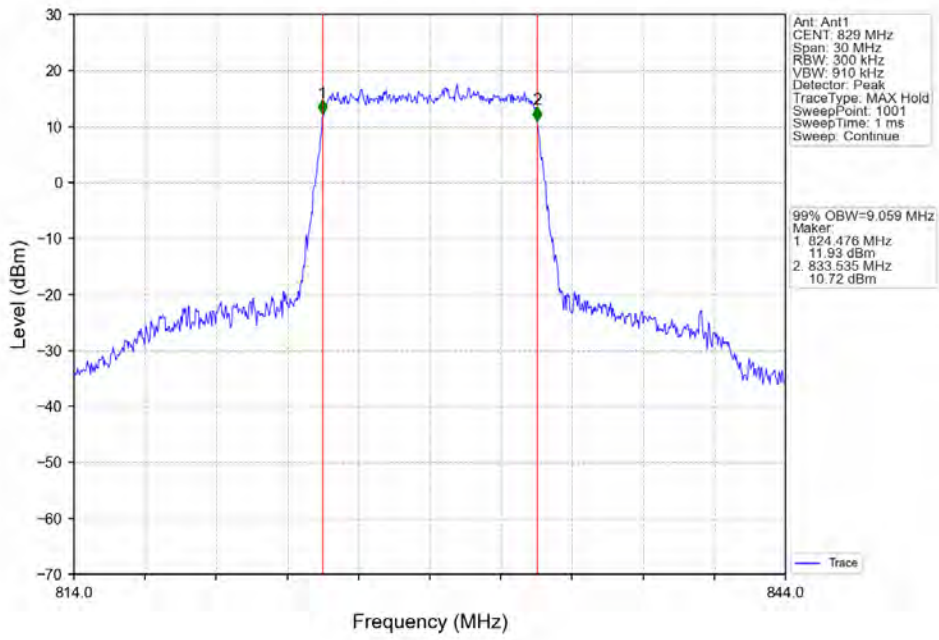
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



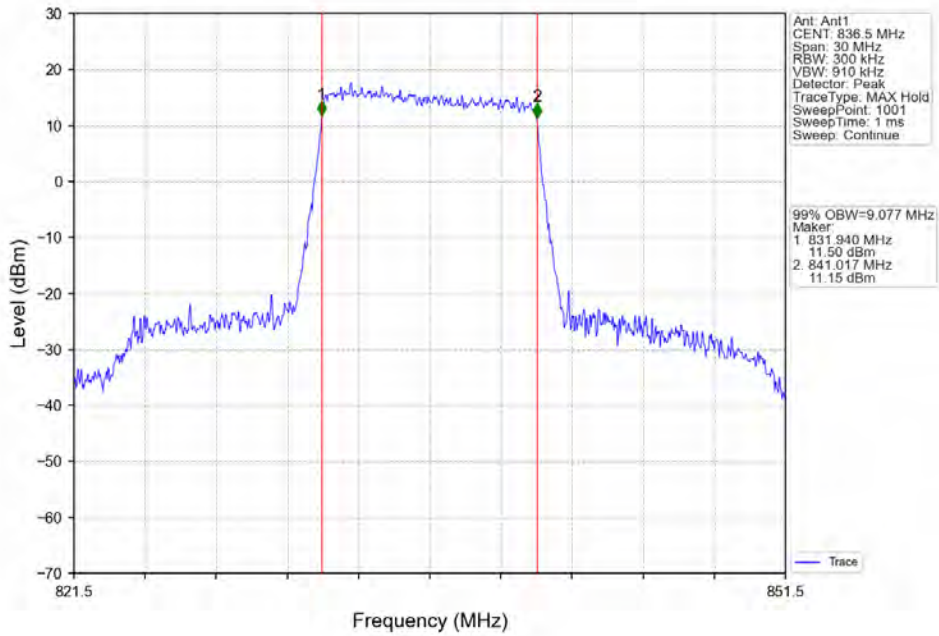
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



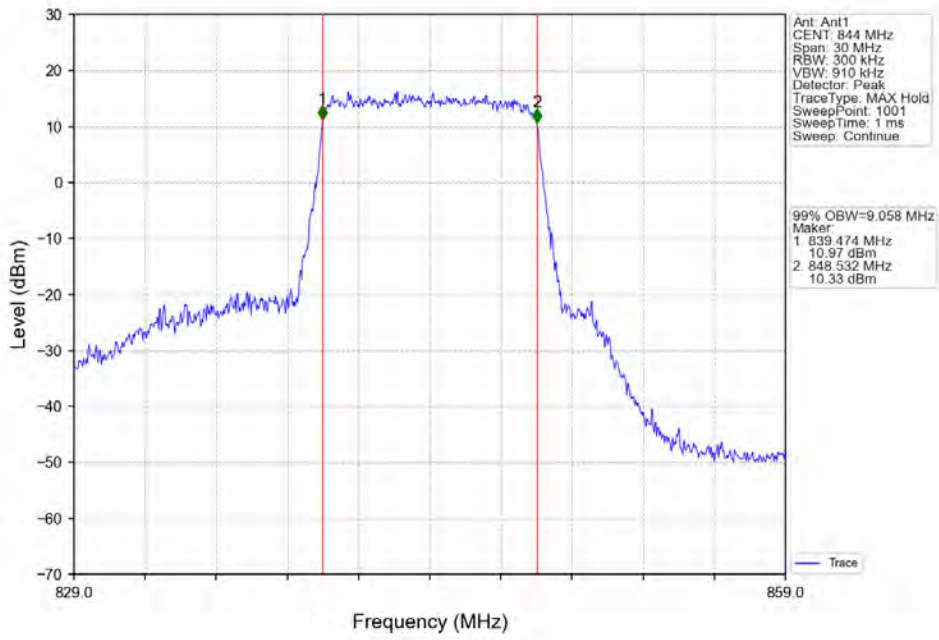
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



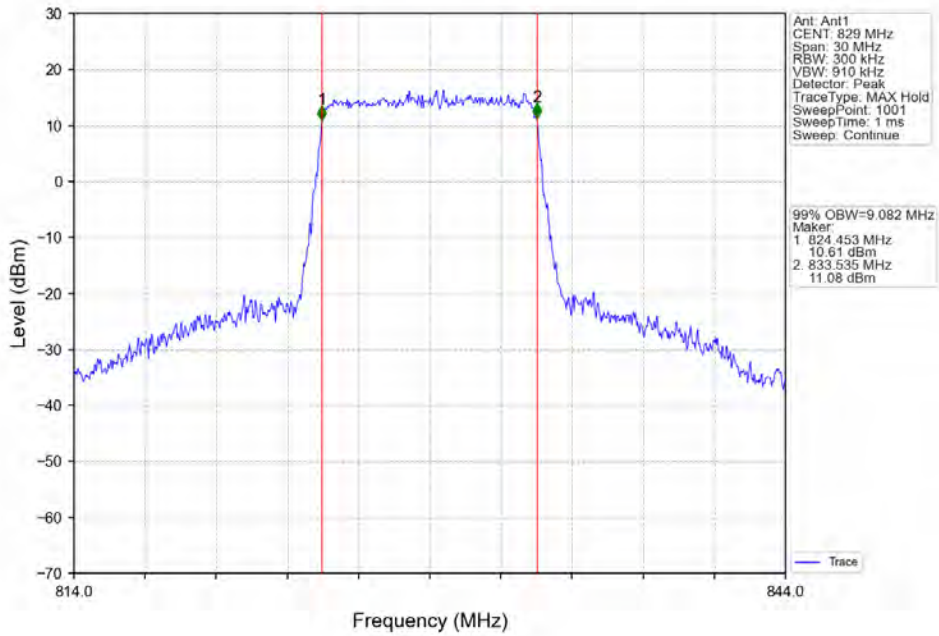
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



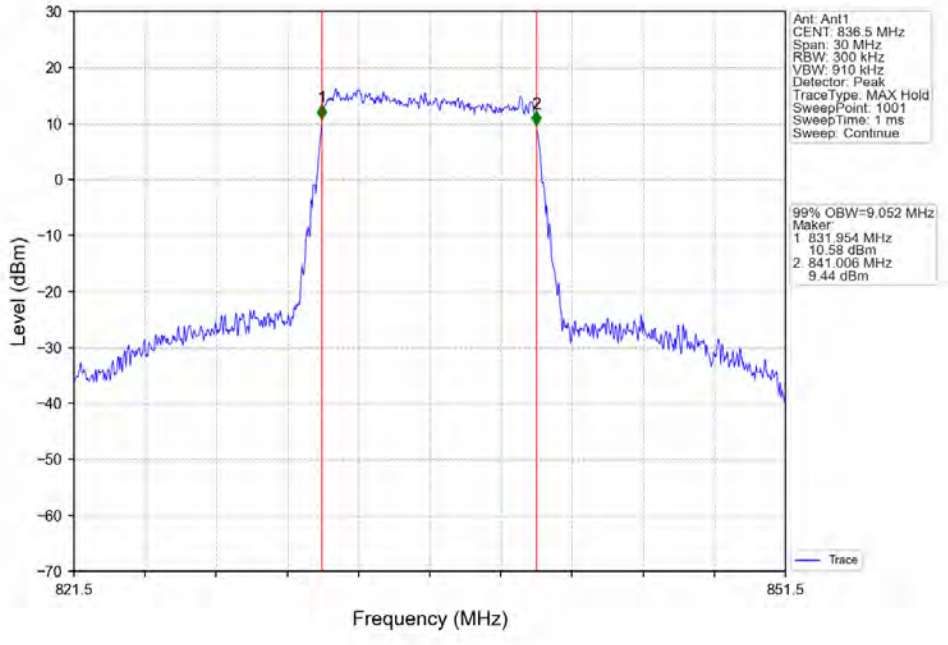
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



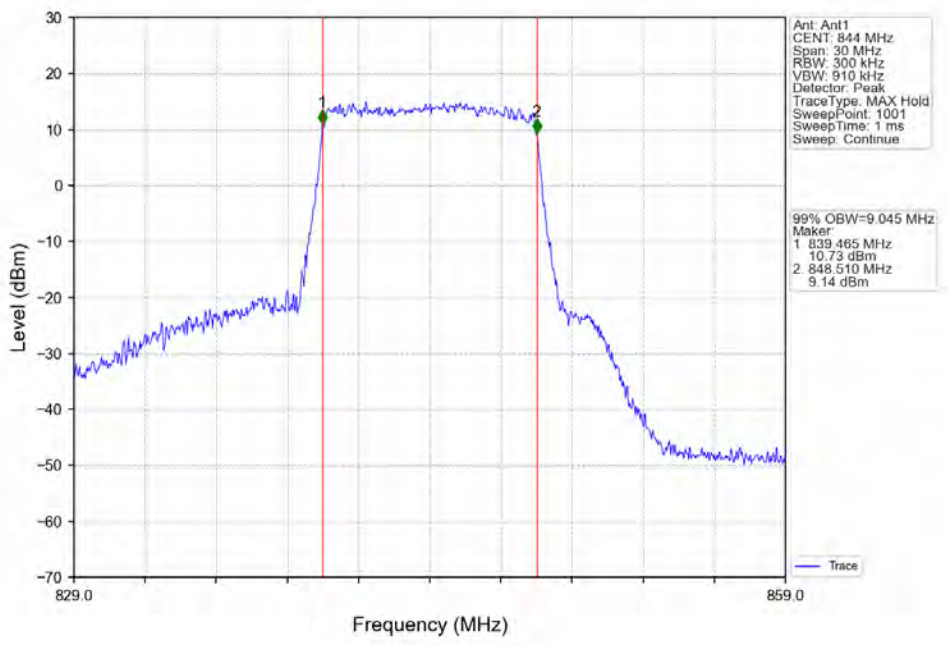
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV

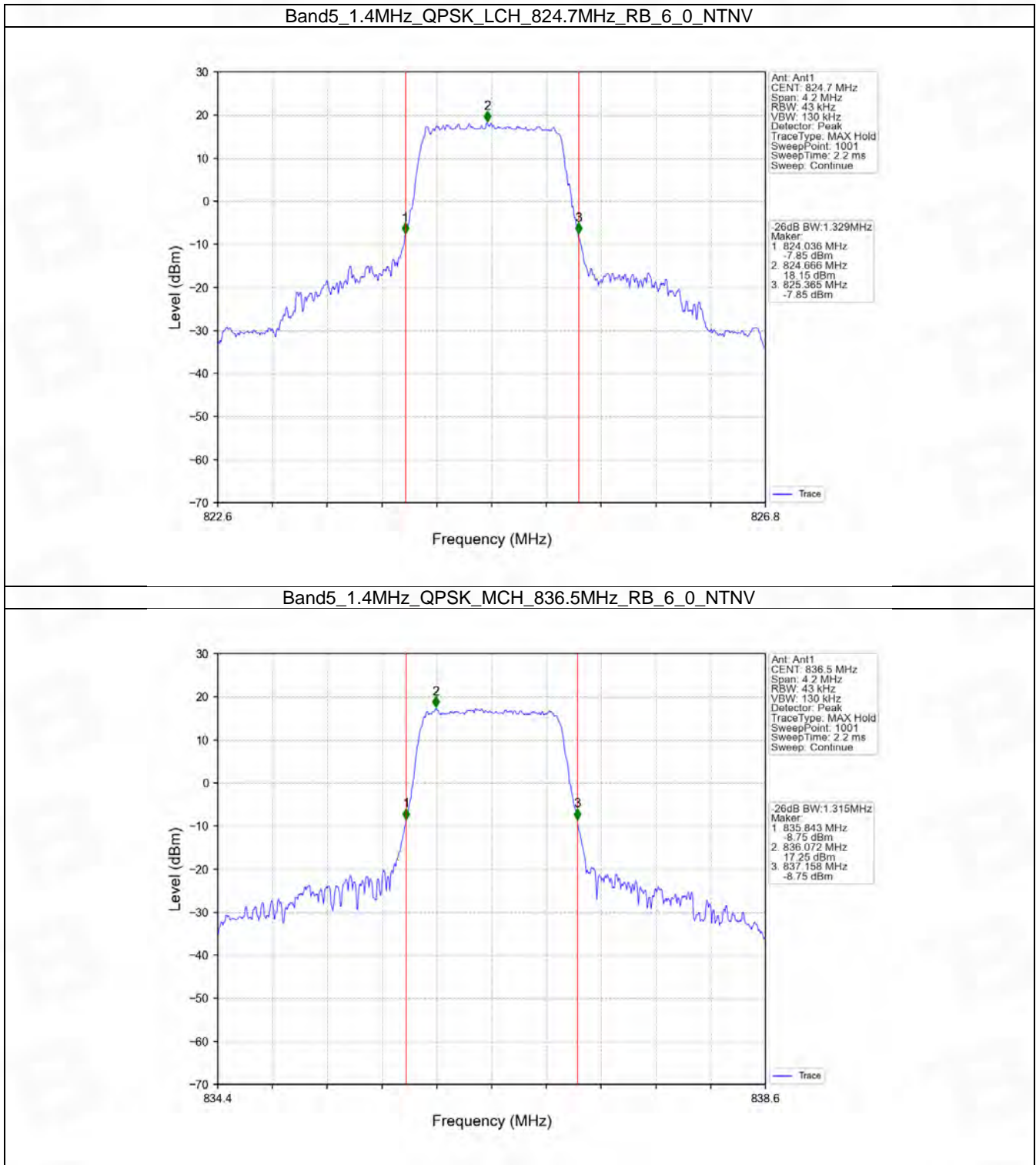


## 4.2 Band5\_XDB

### 4.2.1 Test Result

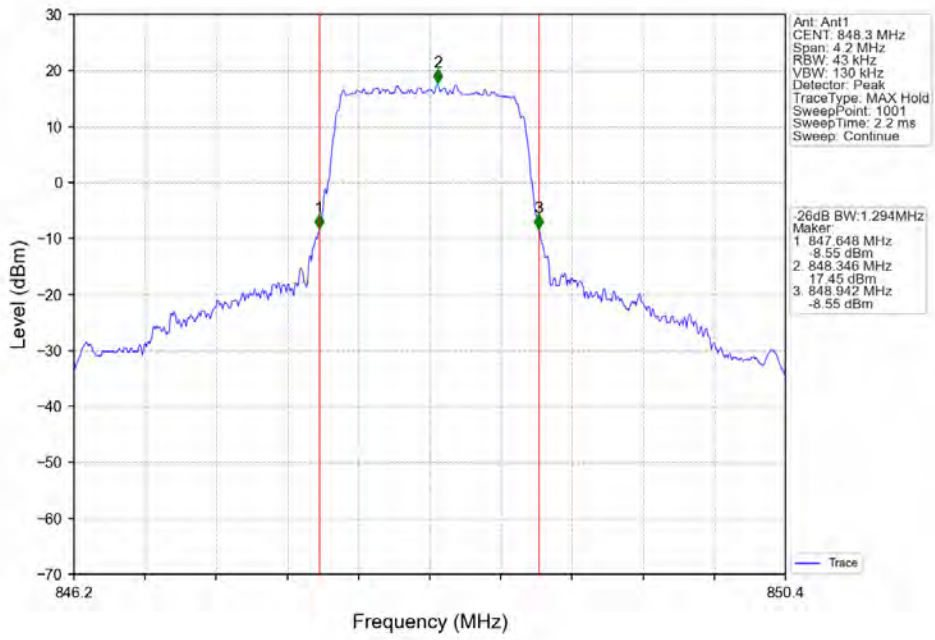
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.329	/	Pass
		836.5	6	0	1.315	/	Pass
		848.3	6	0	1.294	/	Pass
	16QAM	824.7	6	0	1.296	/	Pass
		836.5	6	0	1.317	/	Pass
		848.3	6	0	1.322	/	Pass
3	QPSK	825.5	15	0	2.999	/	Pass
		836.5	15	0	3.004	/	Pass
		847.5	15	0	2.987	/	Pass
	16QAM	825.5	15	0	2.999	/	Pass
		836.5	15	0	2.984	/	Pass
		847.5	15	0	2.967	/	Pass
5	QPSK	826.5	25	0	5.254	/	Pass
		836.5	25	0	5.227	/	Pass
		846.5	25	0	5.249	/	Pass
	16QAM	826.5	25	0	5.298	/	Pass
		836.5	25	0	5.266	/	Pass
		846.5	25	0	5.220	/	Pass
10	QPSK	829	50	0	10.148	/	Pass
		836.5	50	0	10.188	/	Pass
		844	50	0	10.277	/	Pass
	16QAM	829	50	0	10.195	/	Pass
		836.5	50	0	10.300	/	Pass
		844	50	0	10.276	/	Pass

## 4.2.2 Test Graph

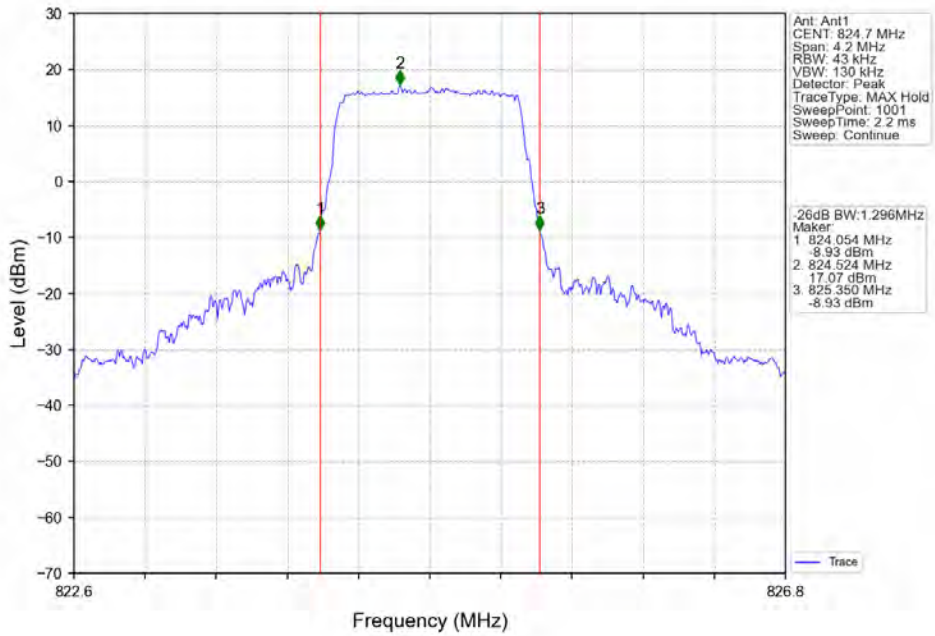




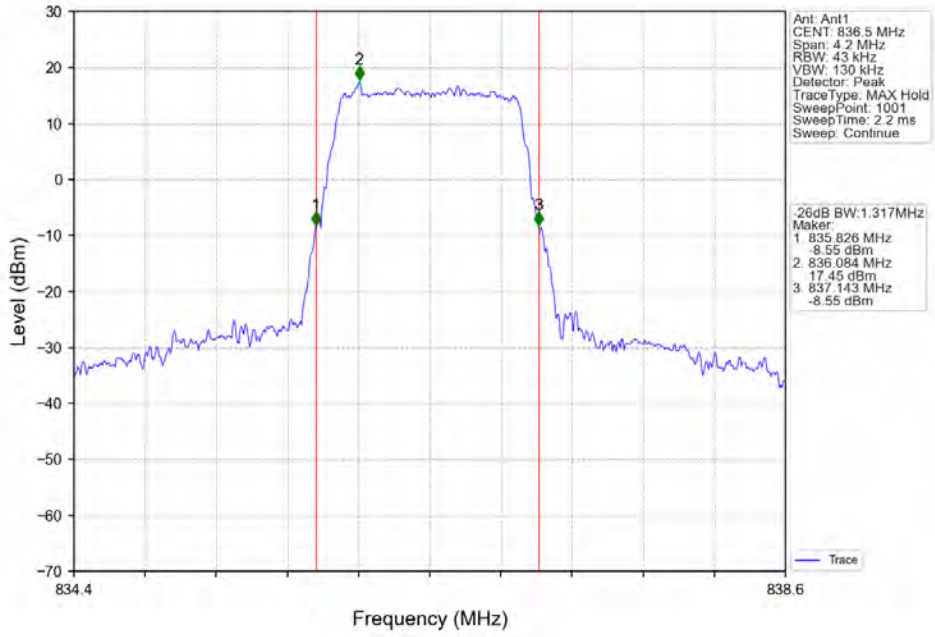
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



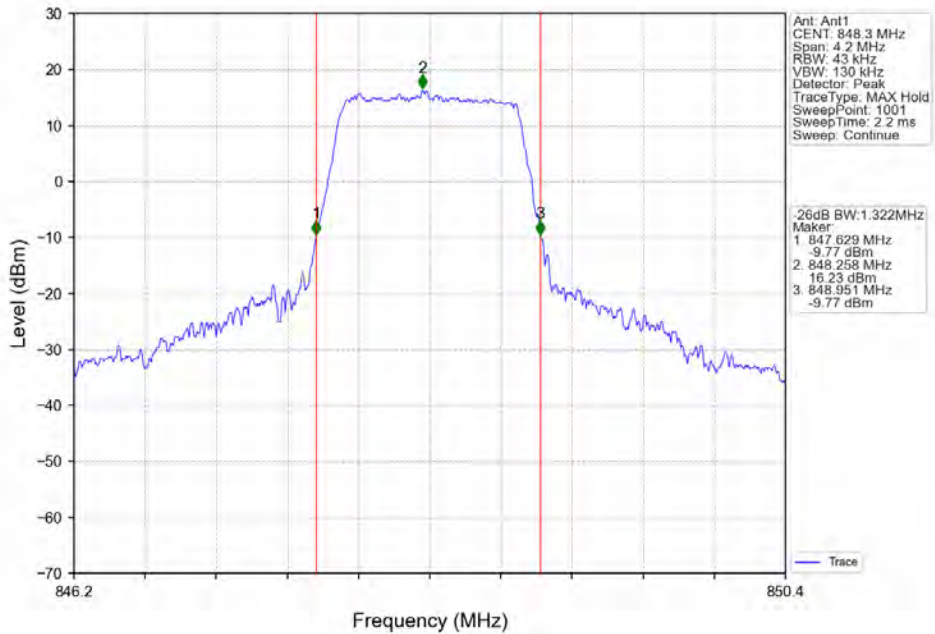
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



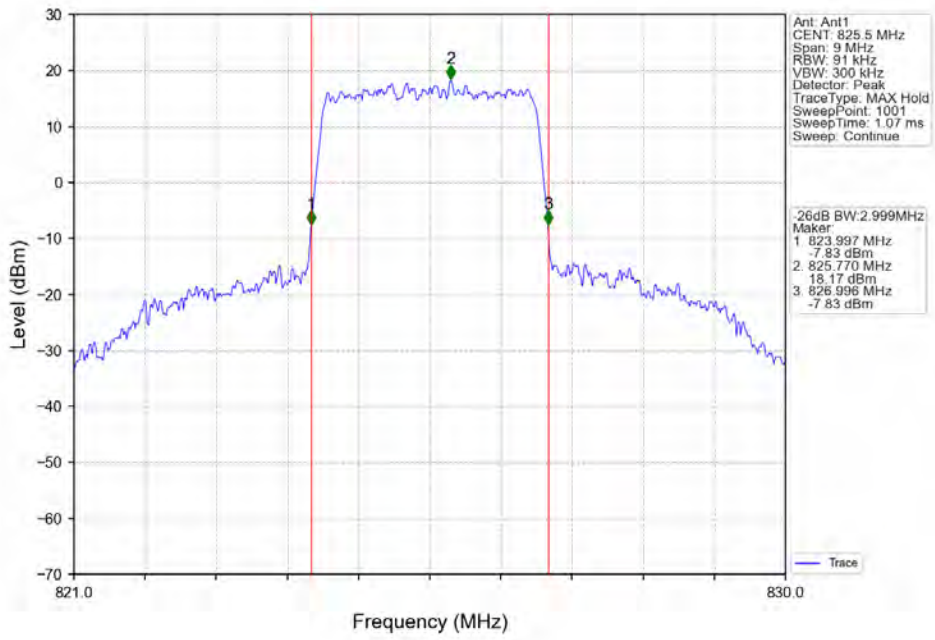
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



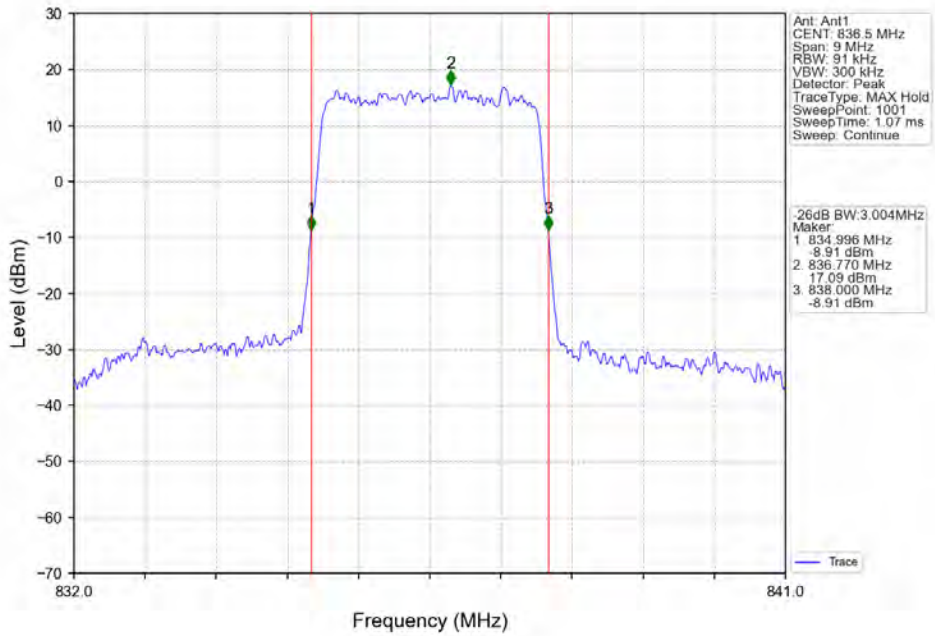
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



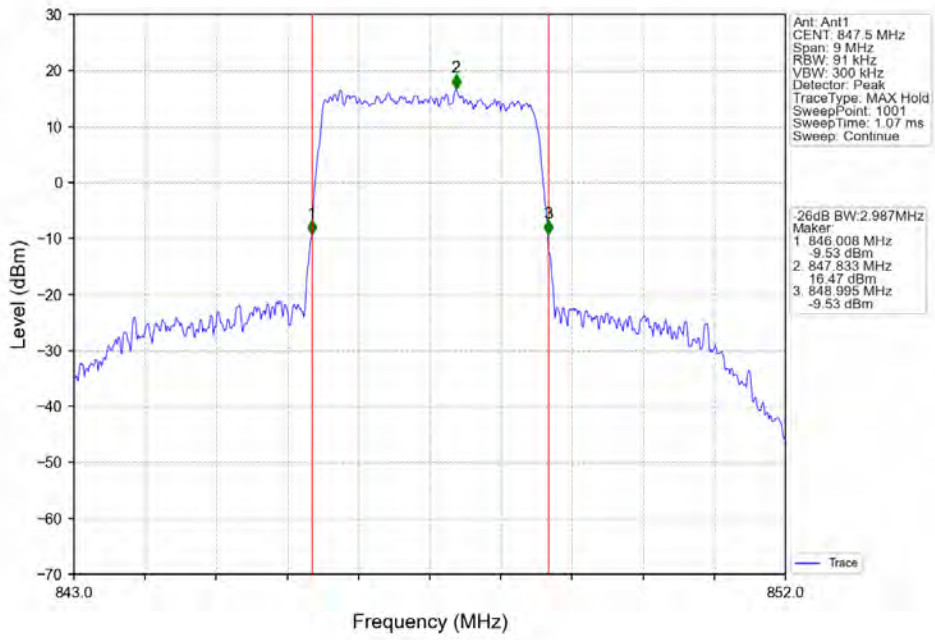
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



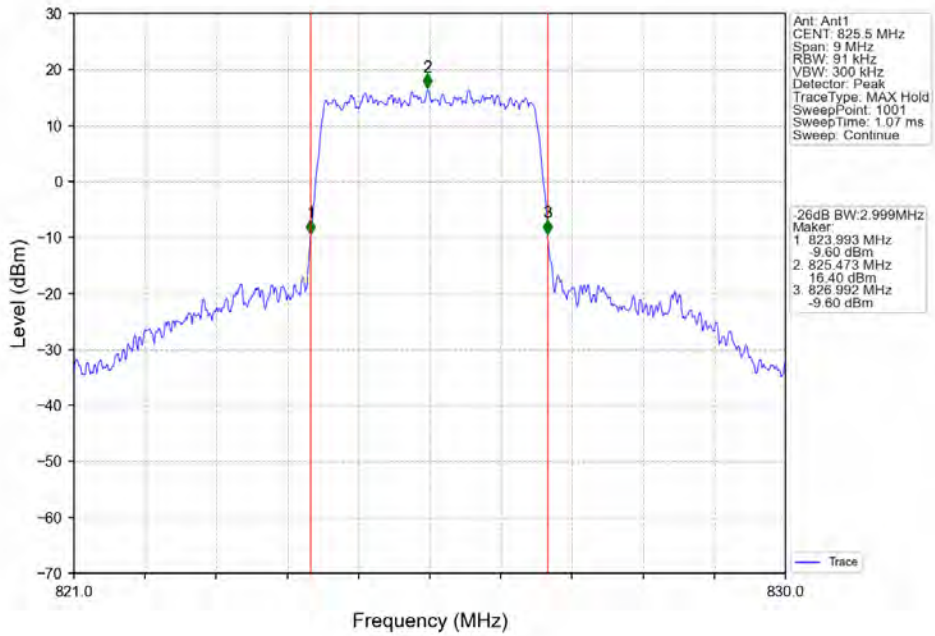
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



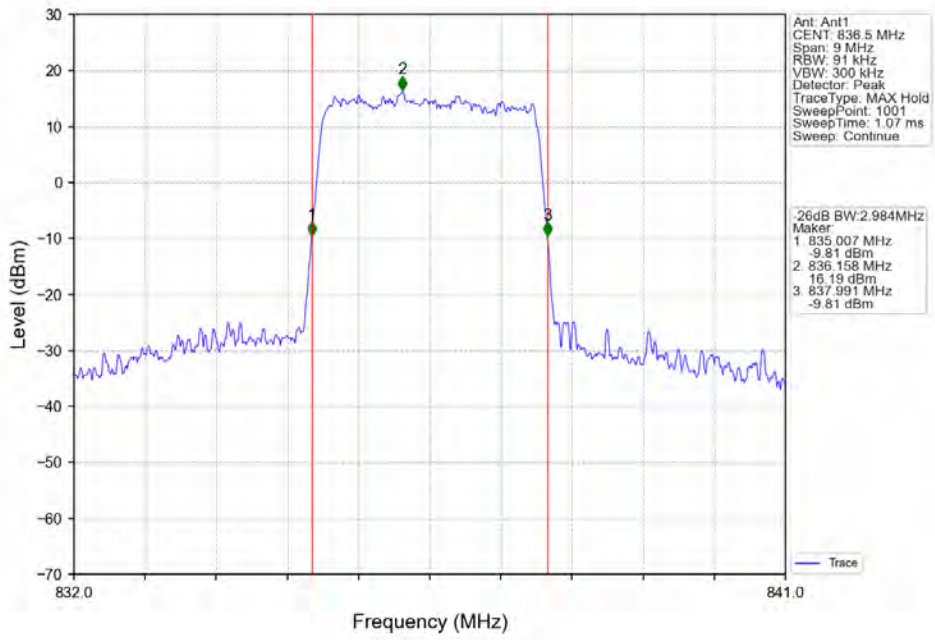
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



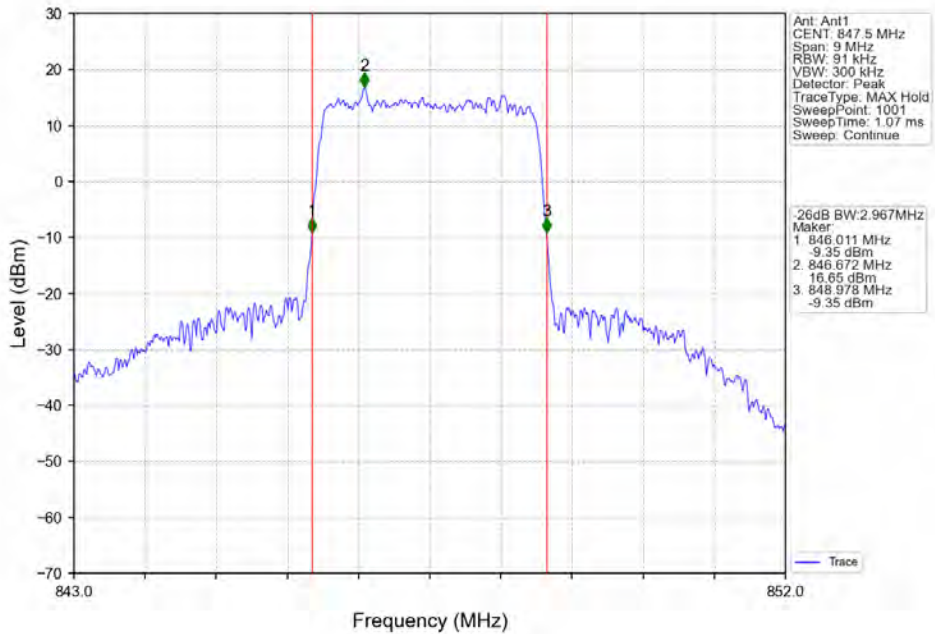
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



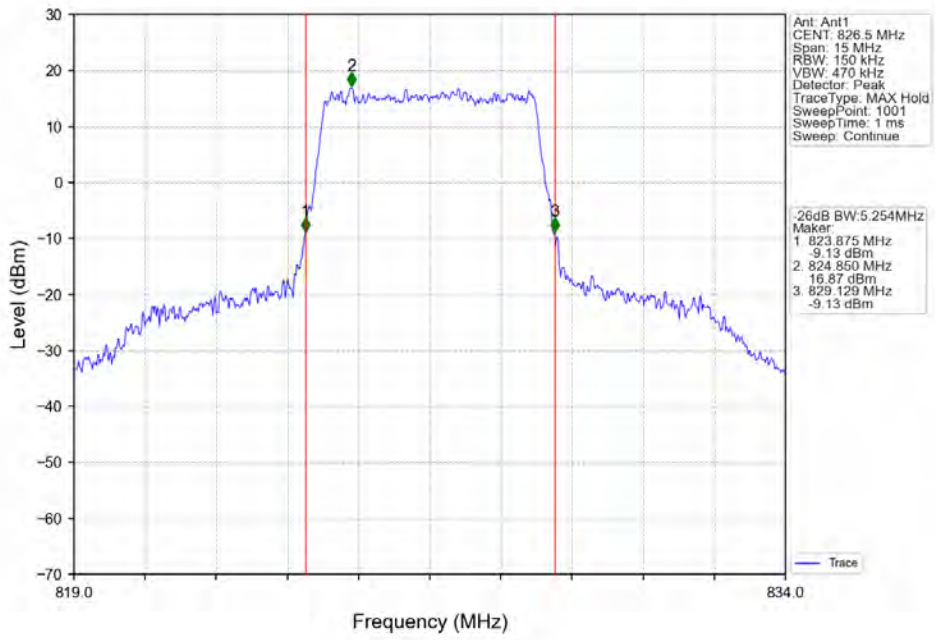
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



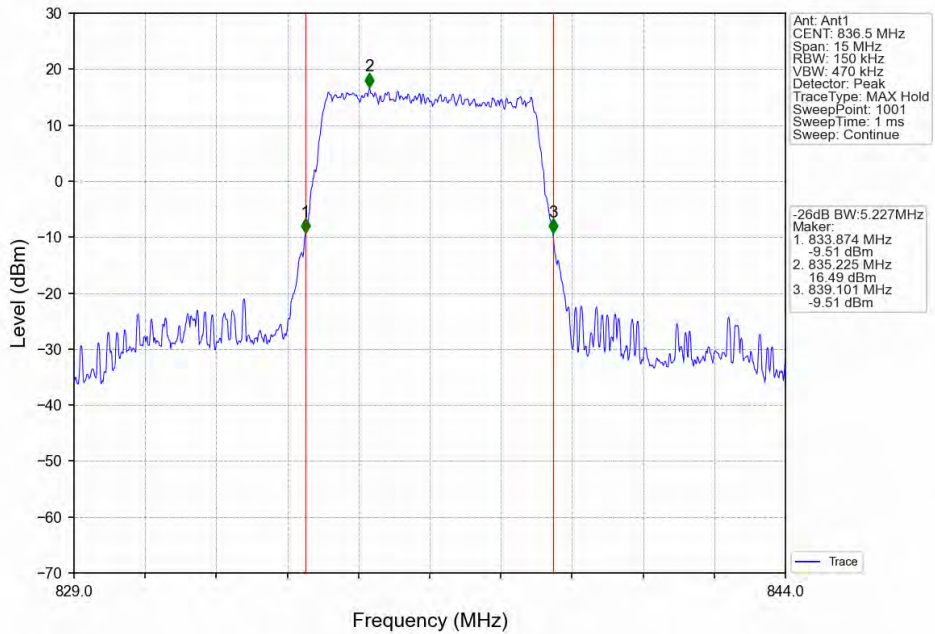
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



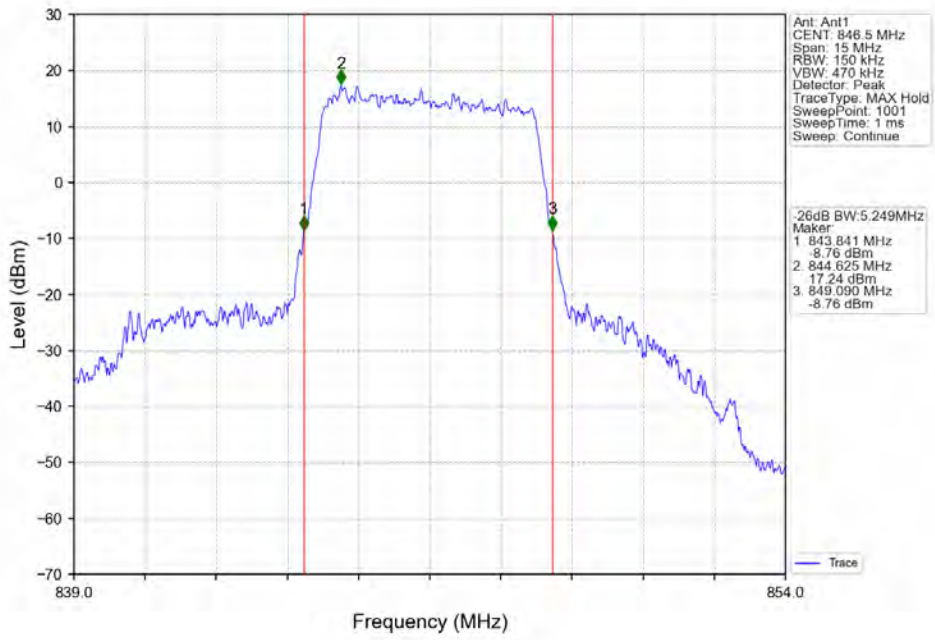
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



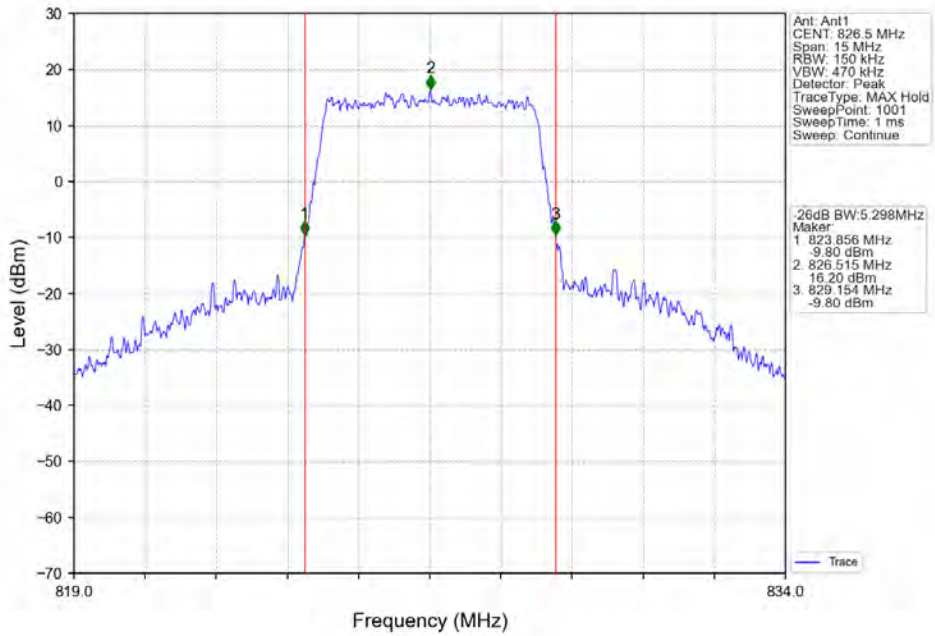
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



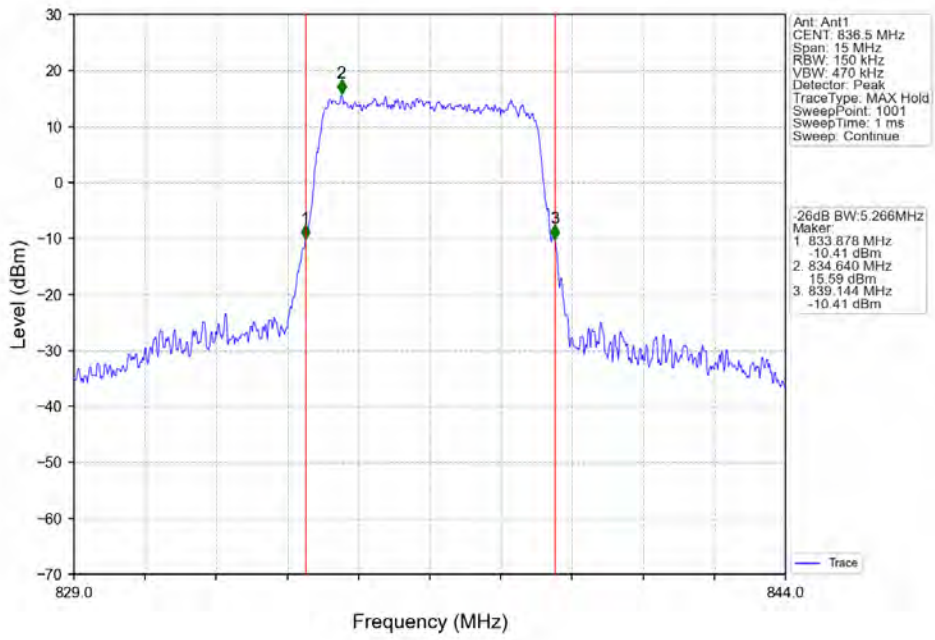
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



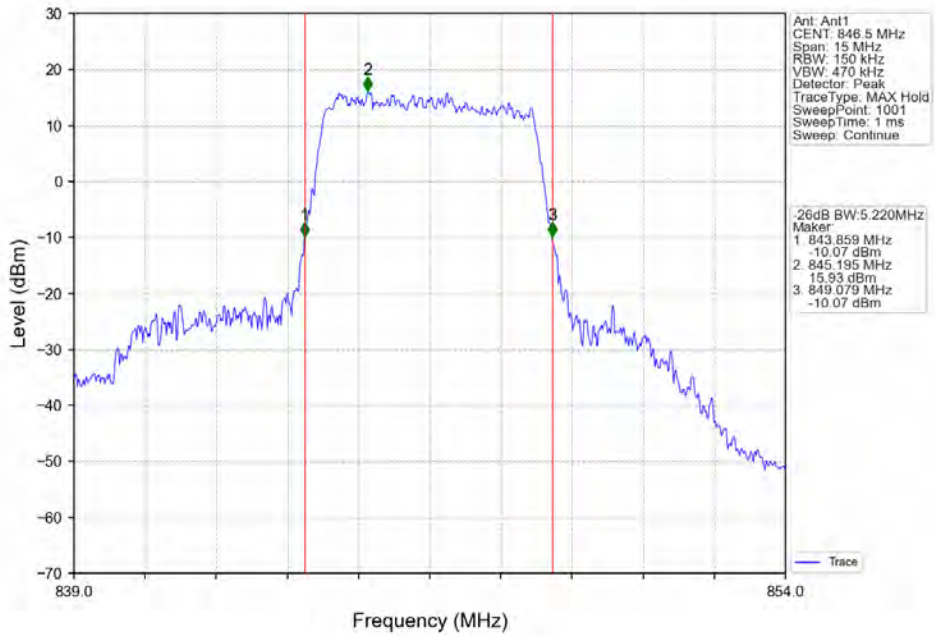
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

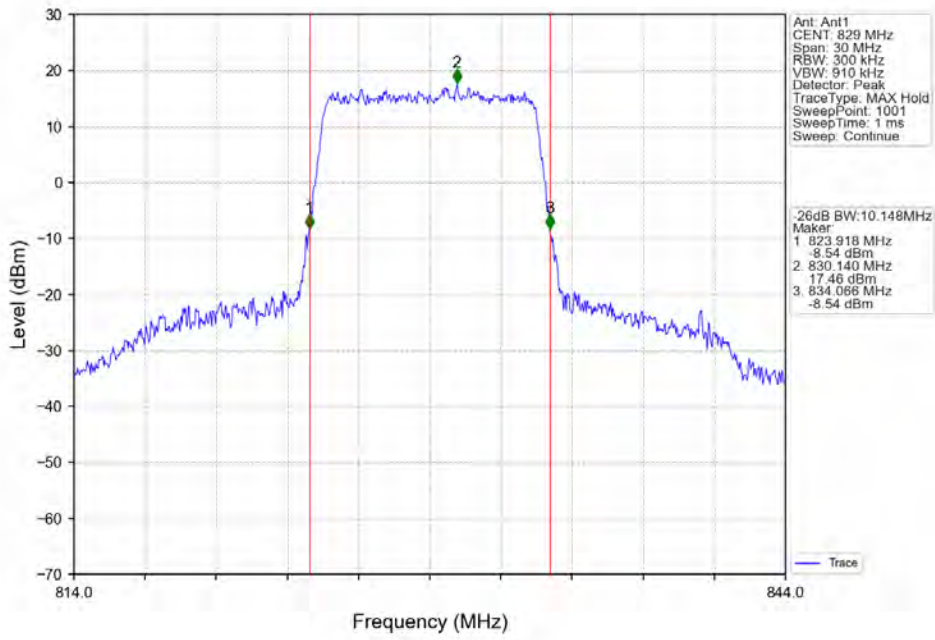


Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

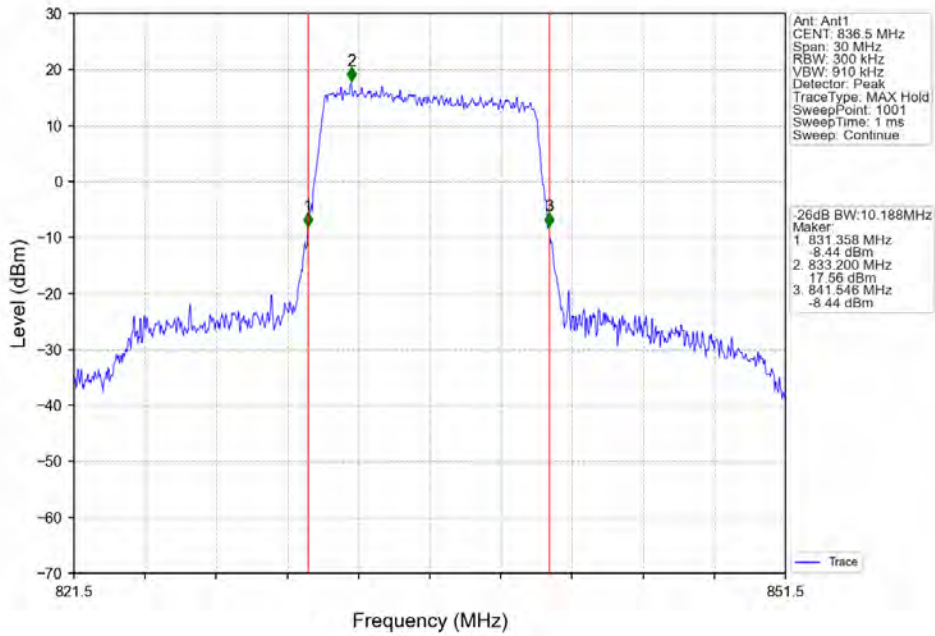




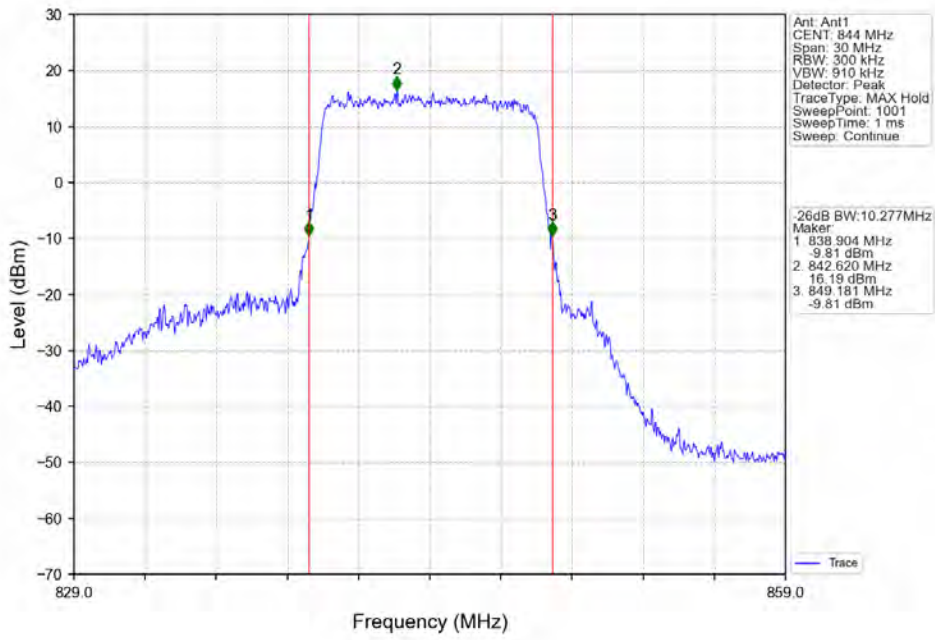
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



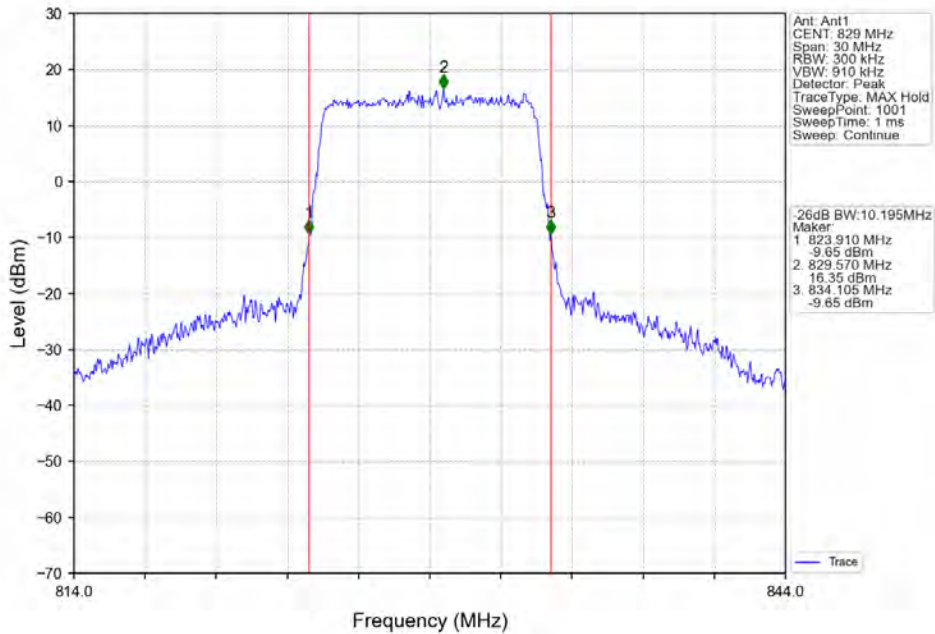
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



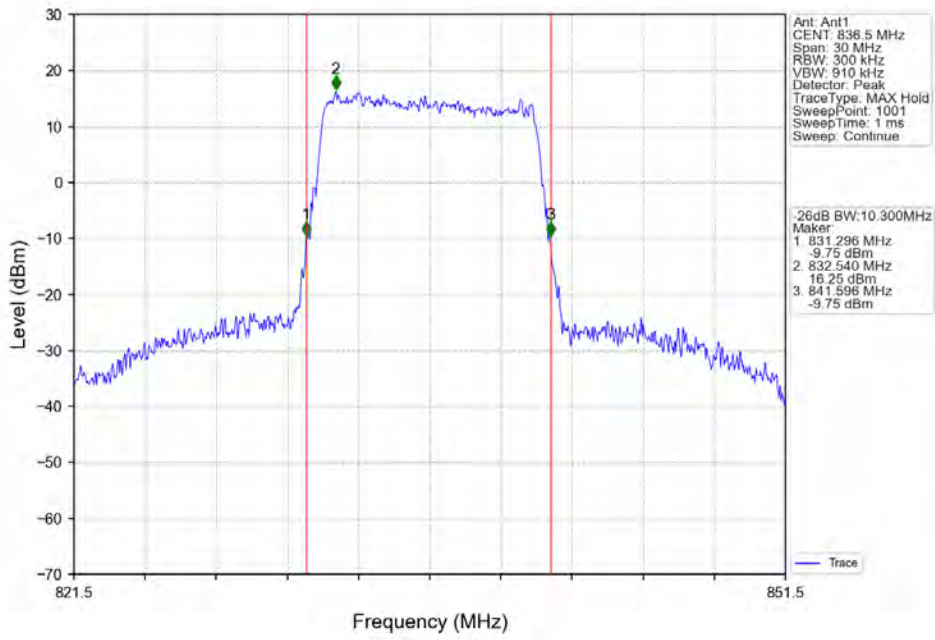
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



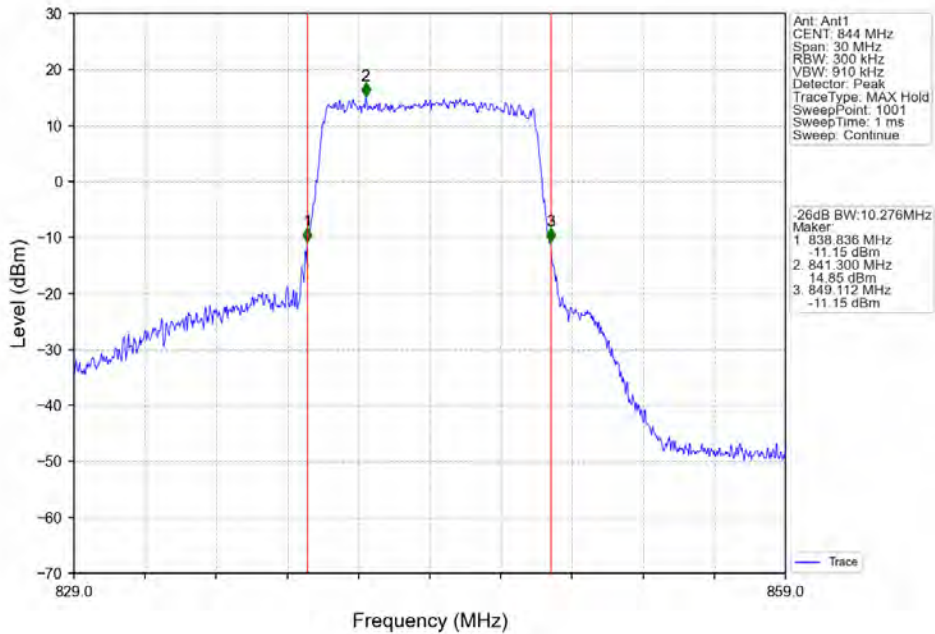
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



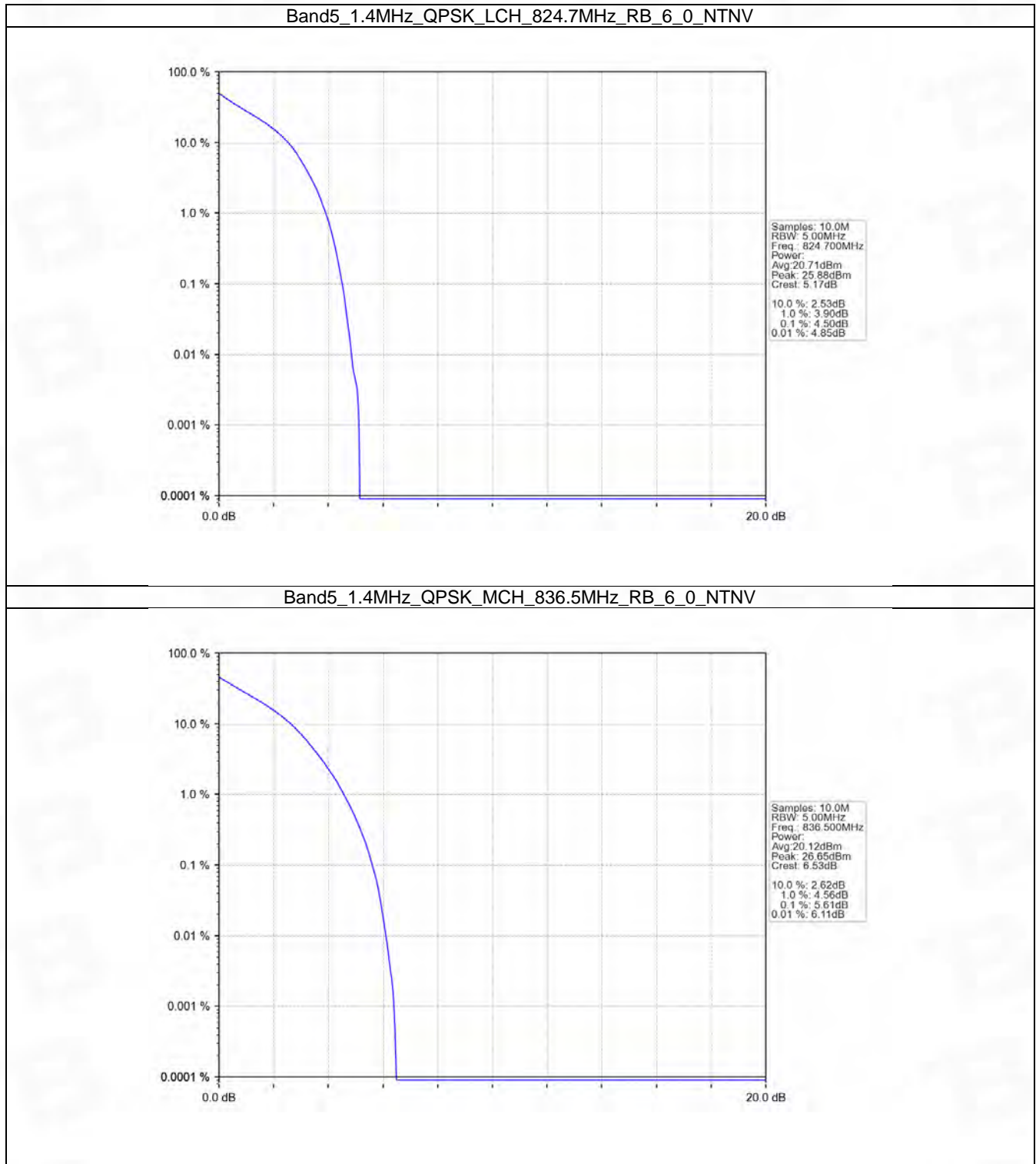
## 5. Peak-Average Ratio

### 5.1 B5\_1.4MHz

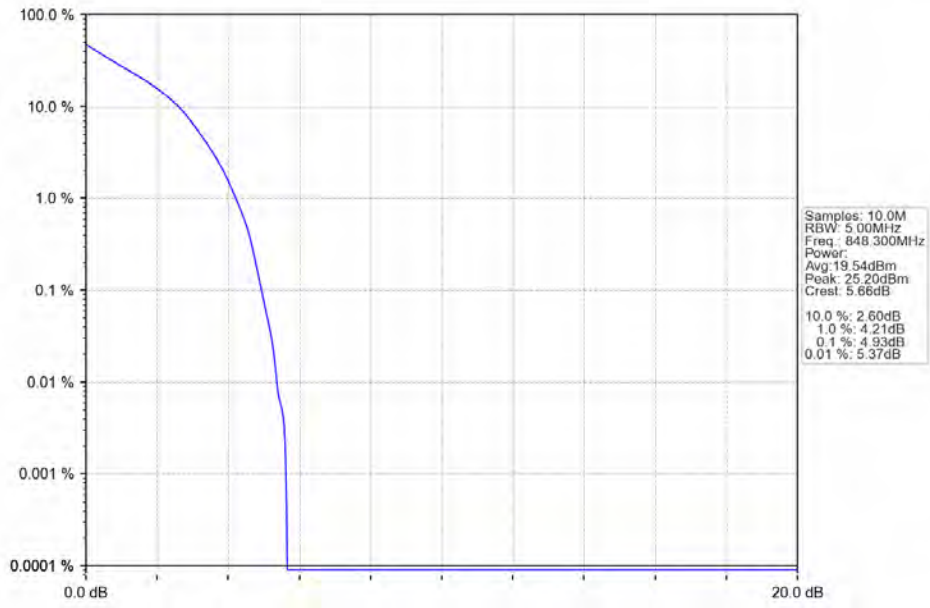
#### 5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	4.50	<=13	Pass
	836.5	6	0	5.61	<=13	Pass
	848.3	6	0	4.93	<=13	Pass
16QAM	824.7	6	0	5.36	<=13	Pass
	836.5	6	0	6.41	<=13	Pass
	848.3	6	0	5.86	<=13	Pass

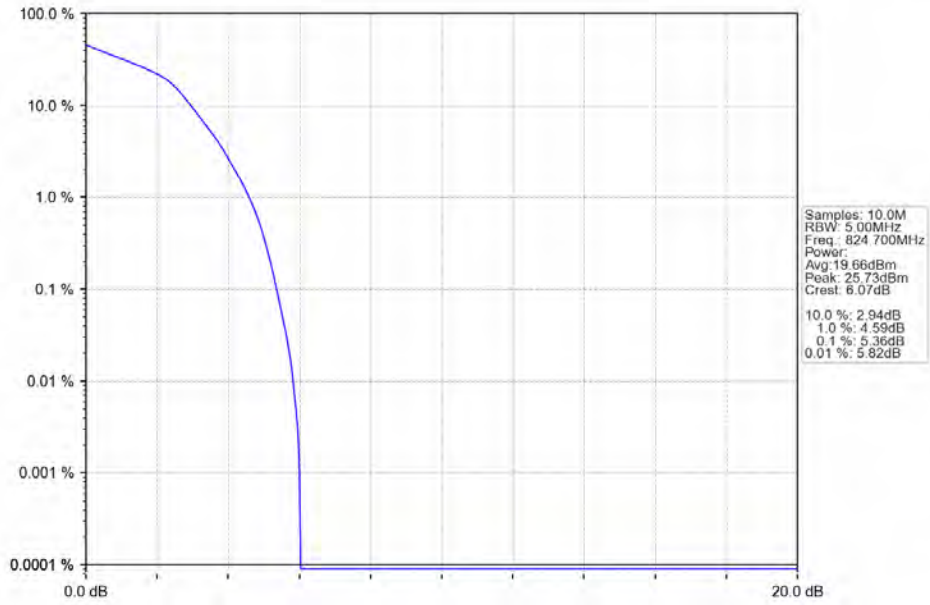
### 5.1.2 Test Graph



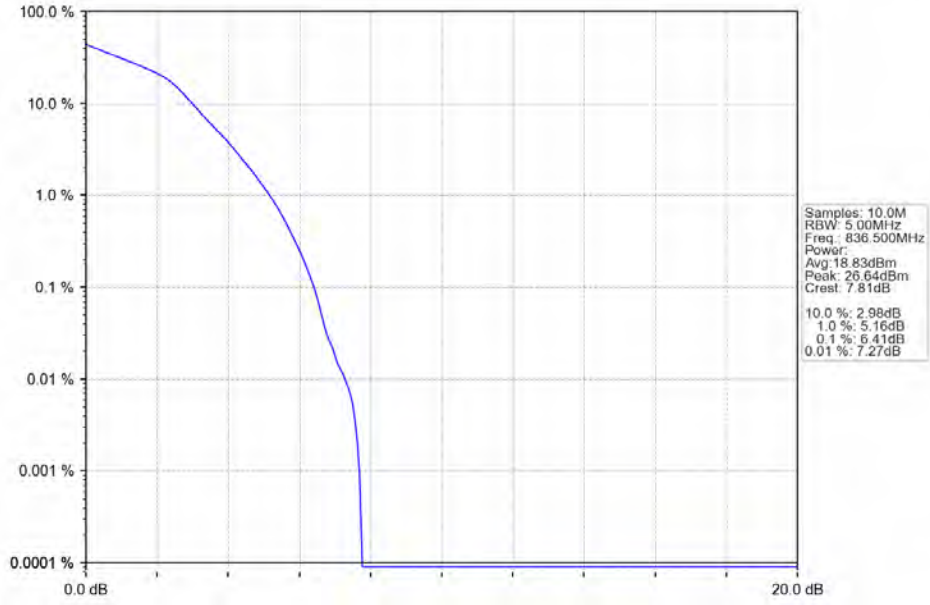
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



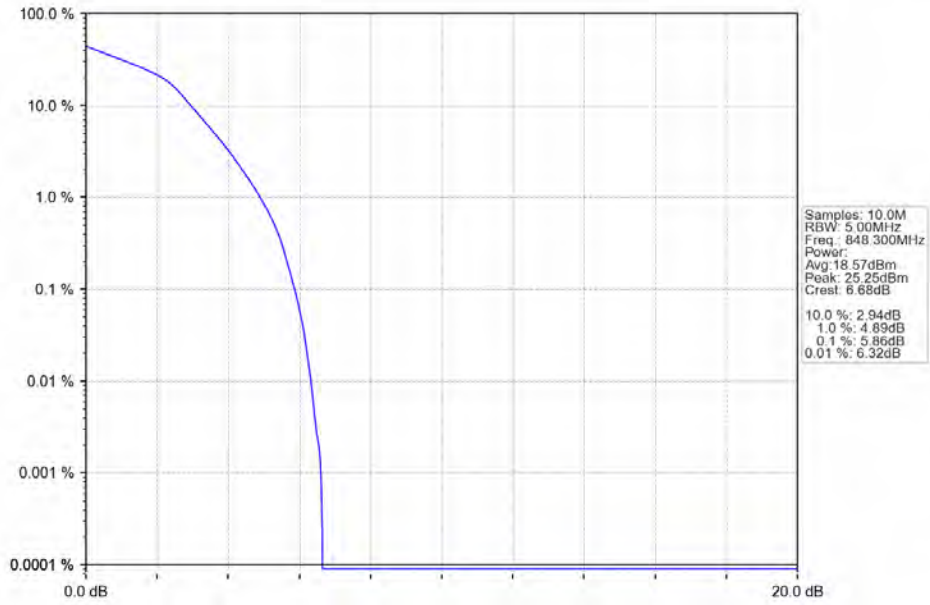
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



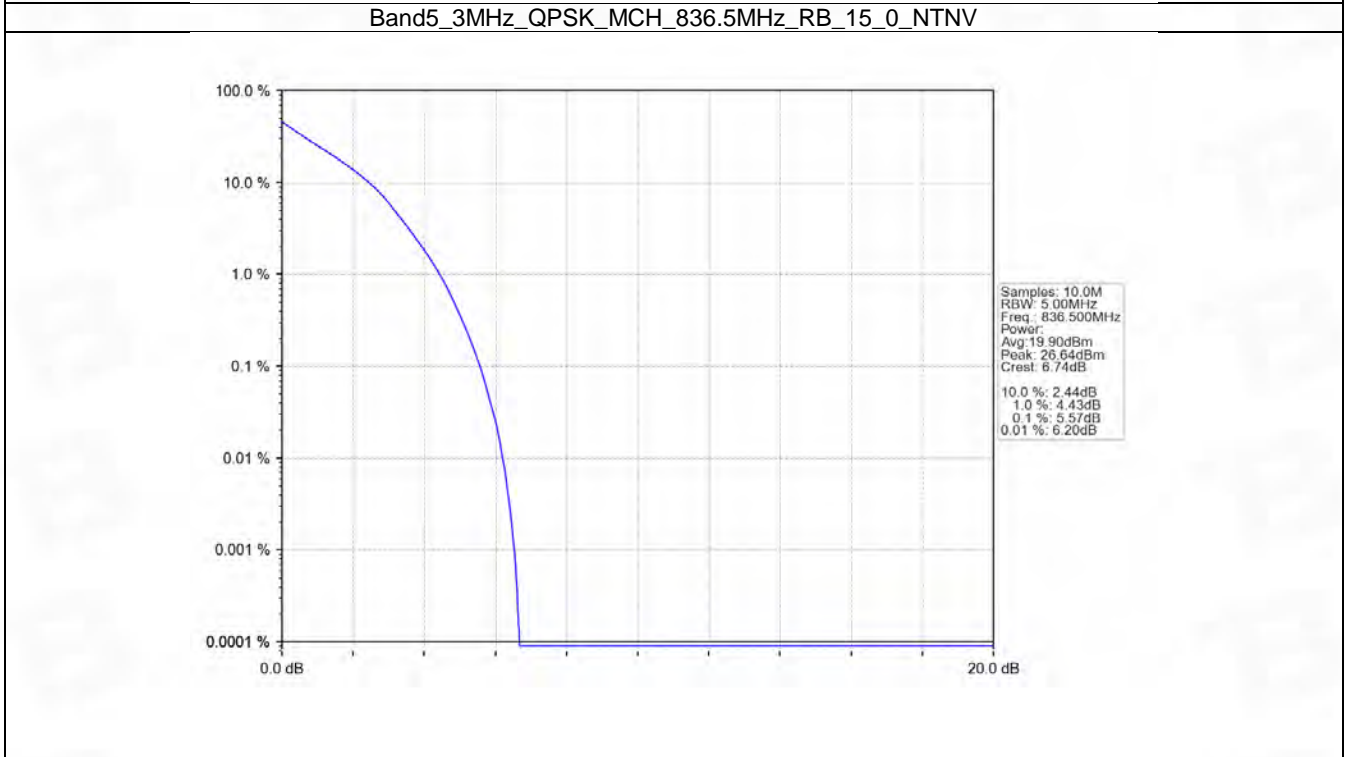
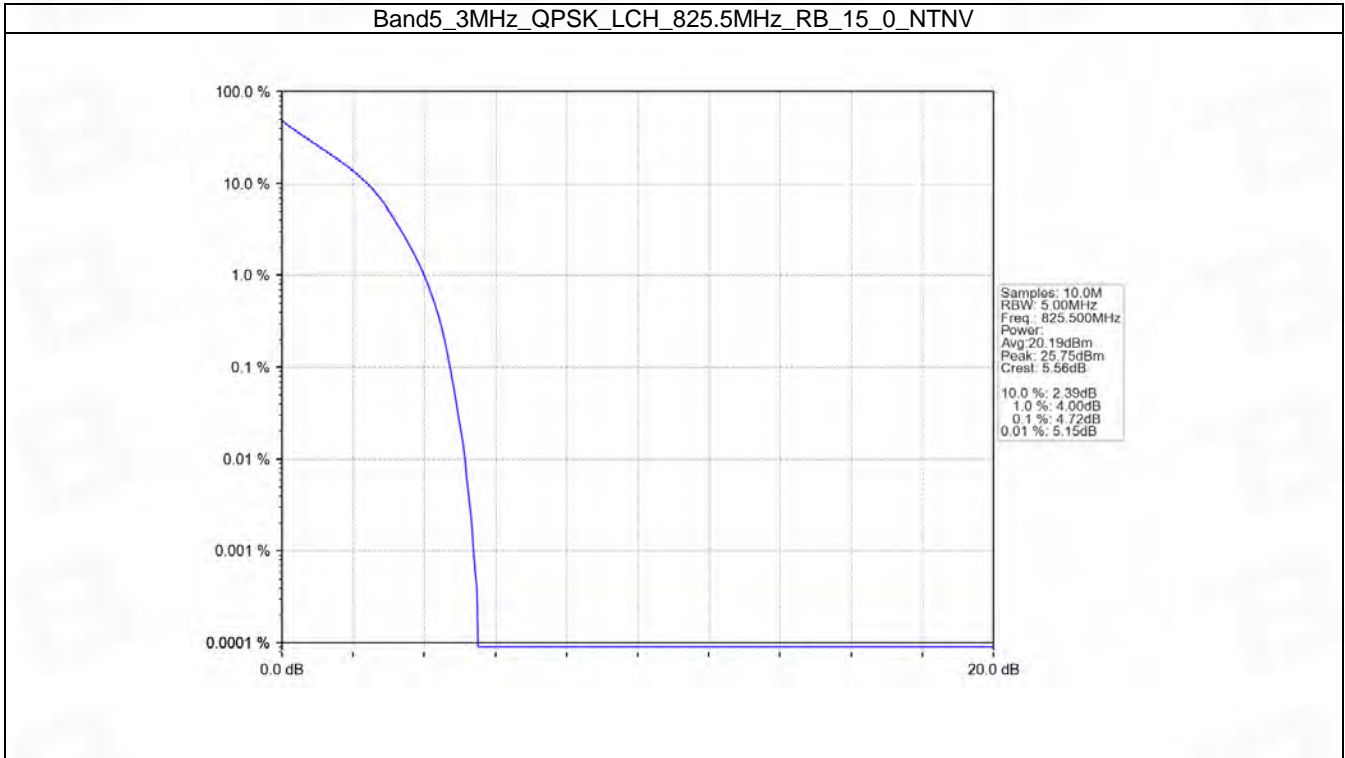
## 5.2 B5\_3MHz

### 5.2.1 Test Result

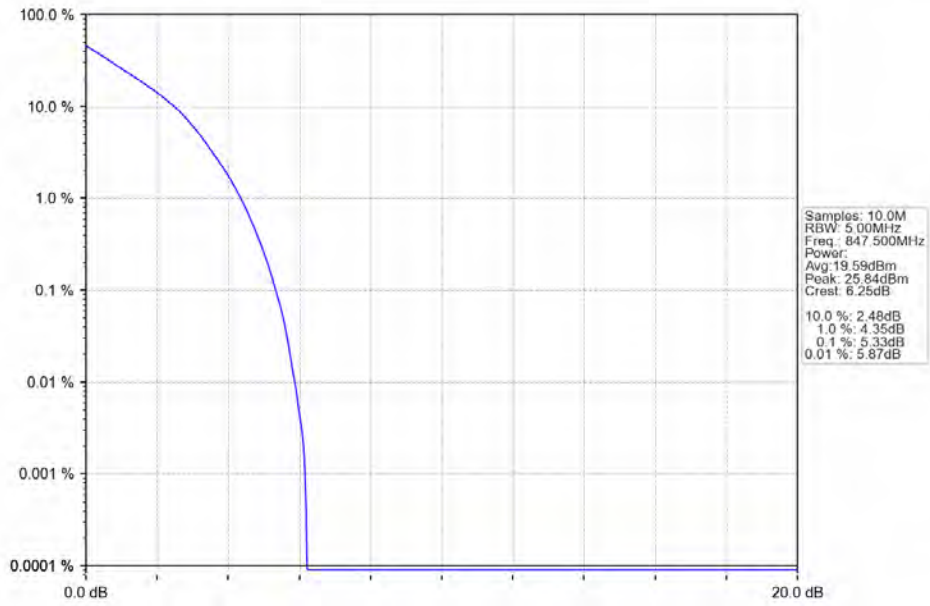
Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	4.72	<=13	Pass
	836.5	15	0	5.57	<=13	Pass
	847.5	15	0	5.33	<=13	Pass
16QAM	825.5	15	0	5.57	<=13	Pass
	836.5	15	0	6.41	<=13	Pass
	847.5	15	0	6.21	<=13	Pass



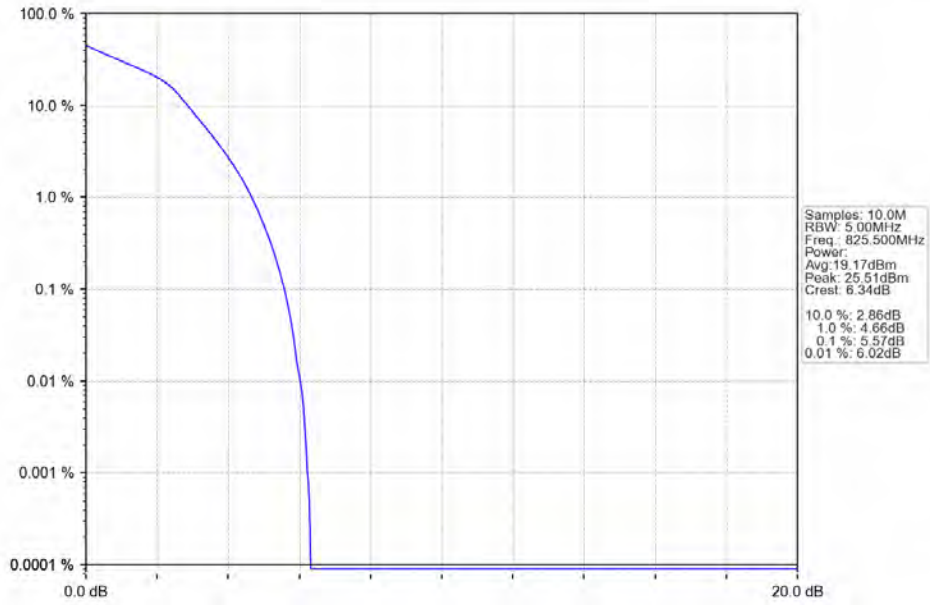
### 5.2.2 Test Graph



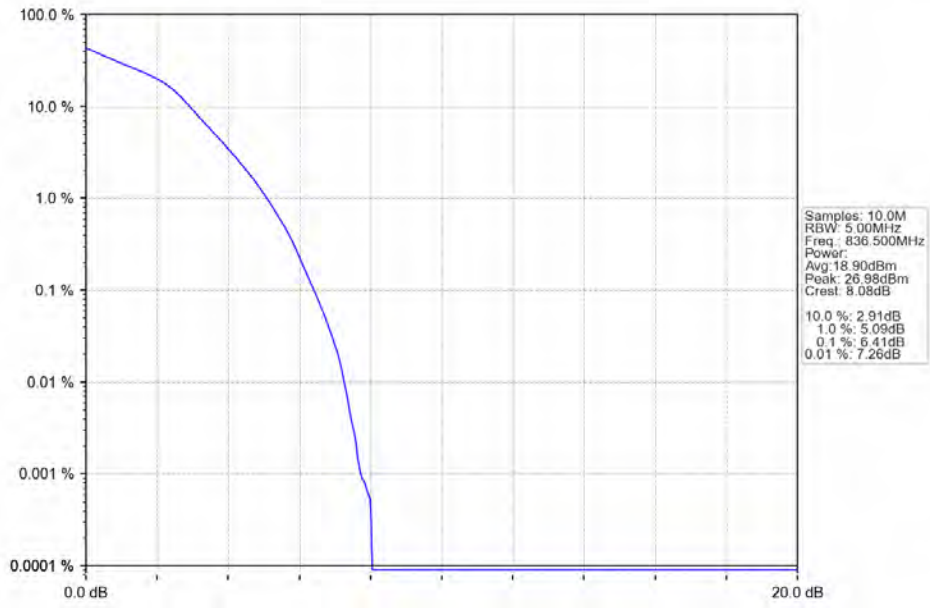
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



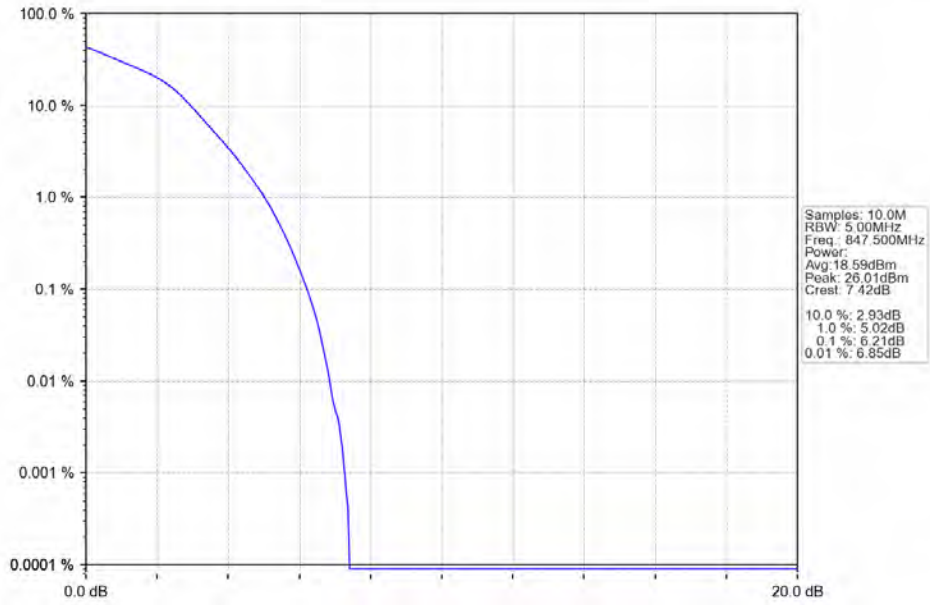
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

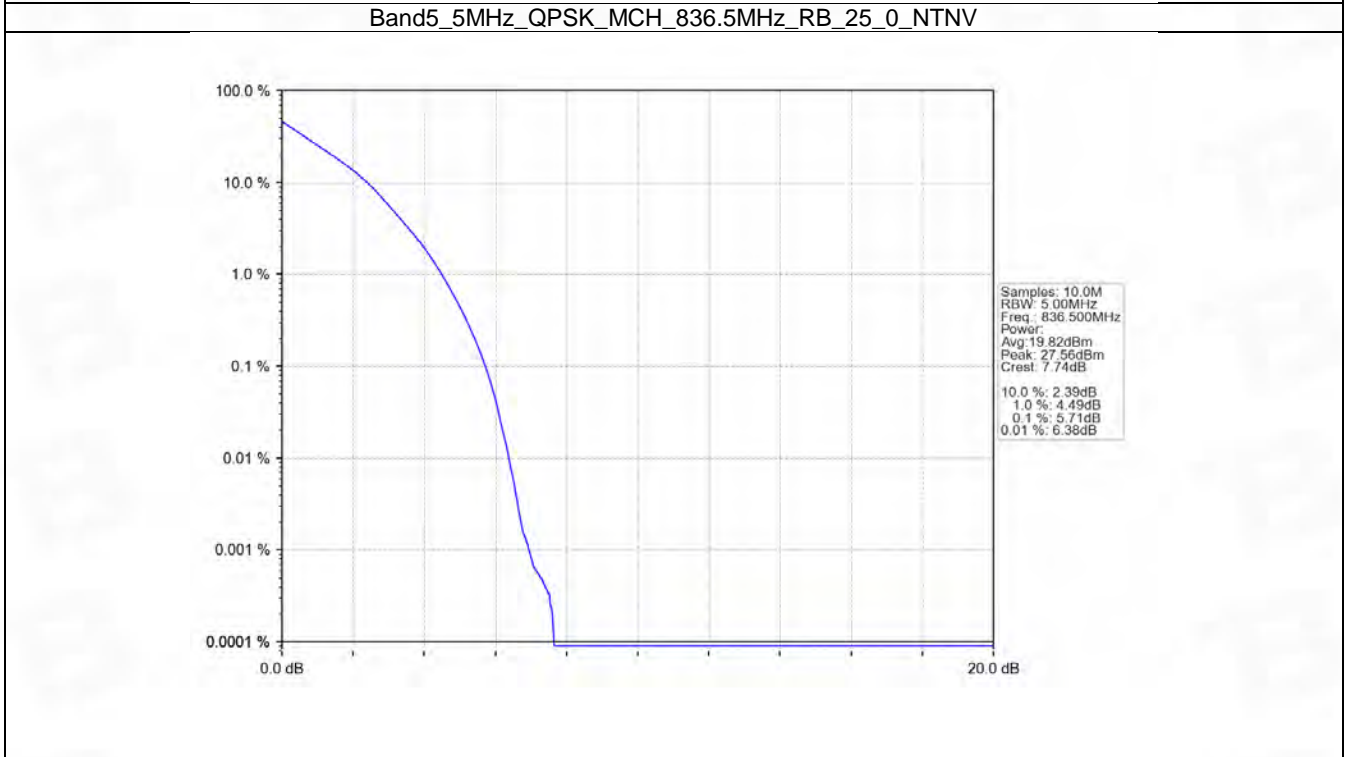
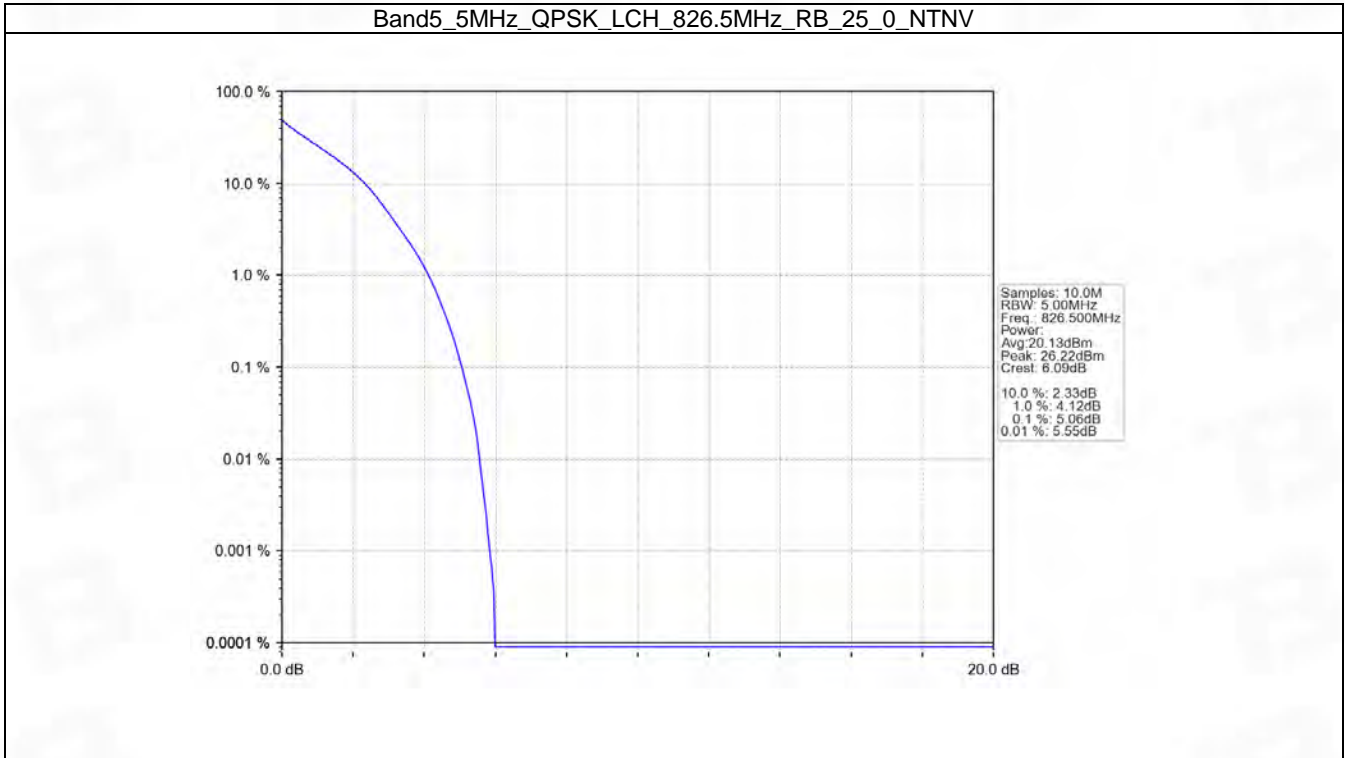


## 5.3 B5\_5MHz

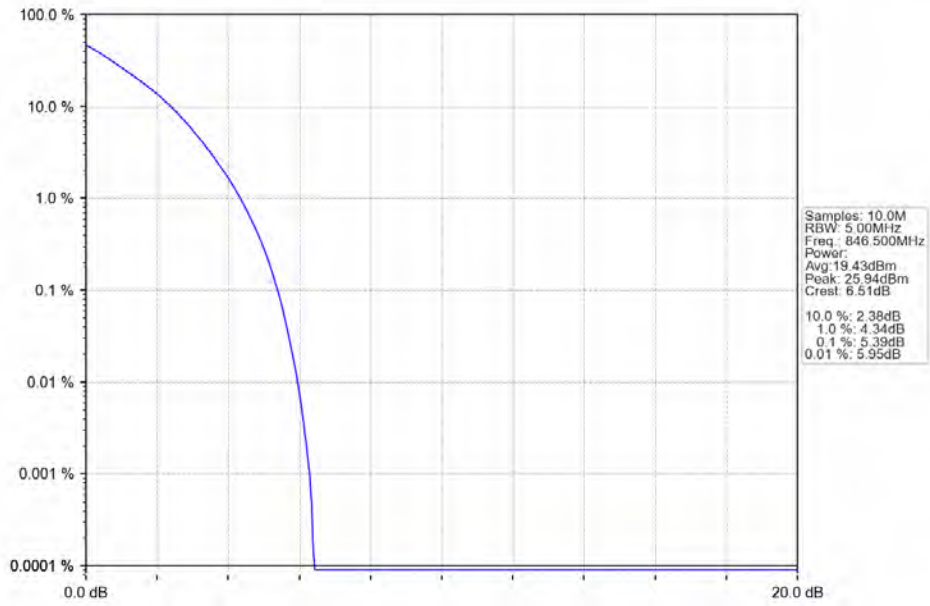
### 5.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.06	<=13	Pass
	836.5	25	0	5.71	<=13	Pass
	846.5	25	0	5.39	<=13	Pass
16QAM	826.5	25	0	5.79	<=13	Pass
	836.5	25	0	6.41	<=13	Pass
	846.5	25	0	6.14	<=13	Pass

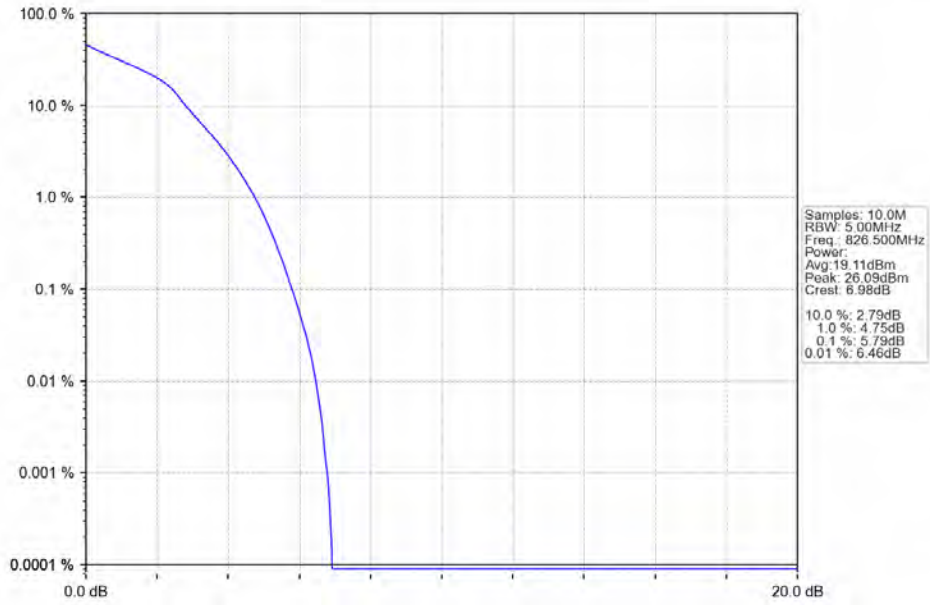
### 5.3.2 Test Graph



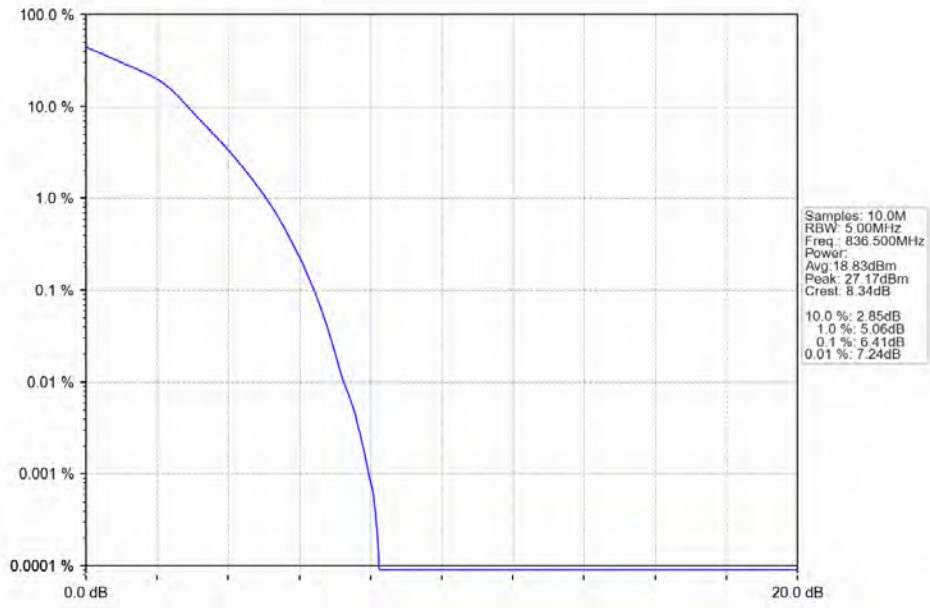
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



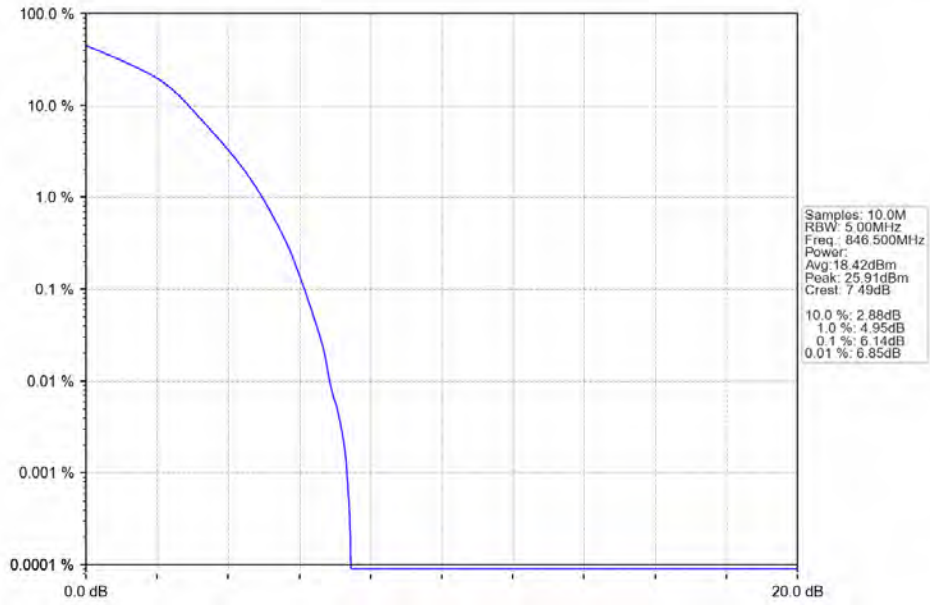
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



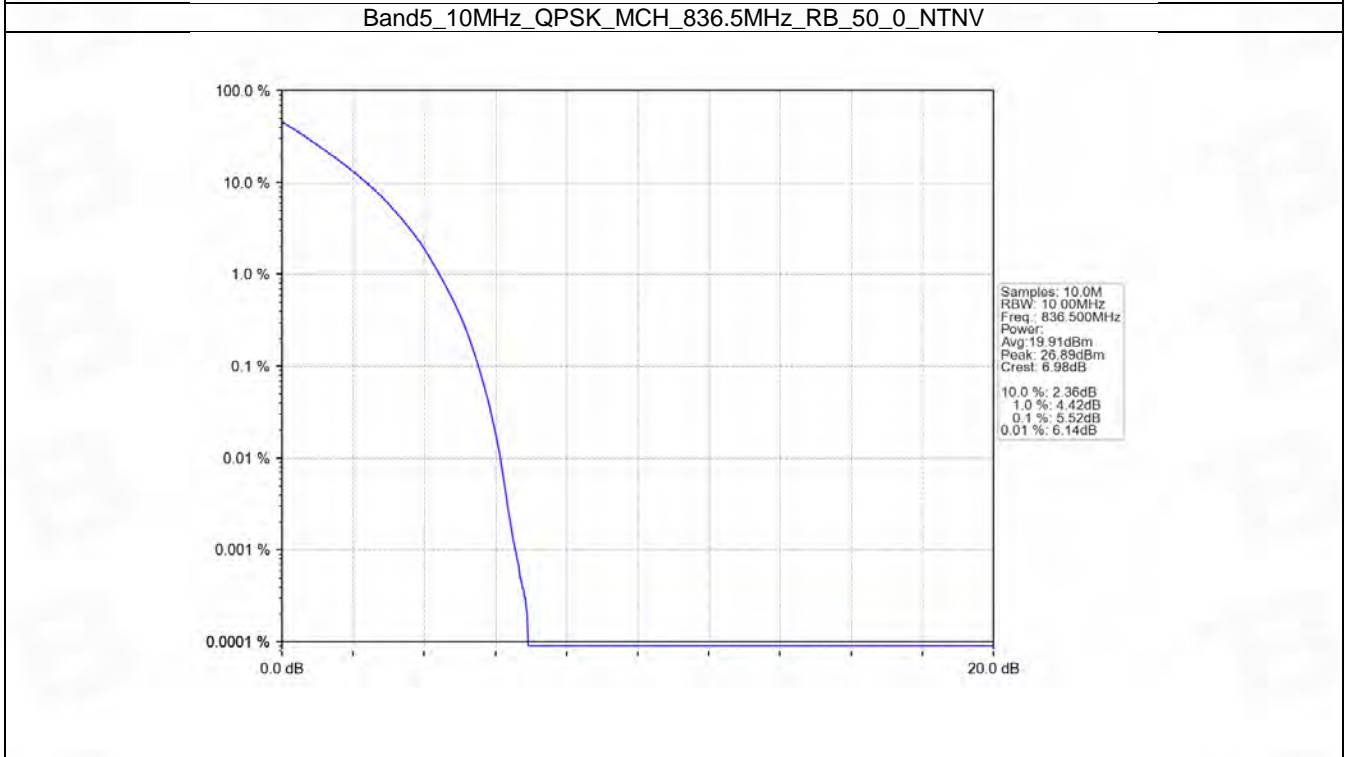
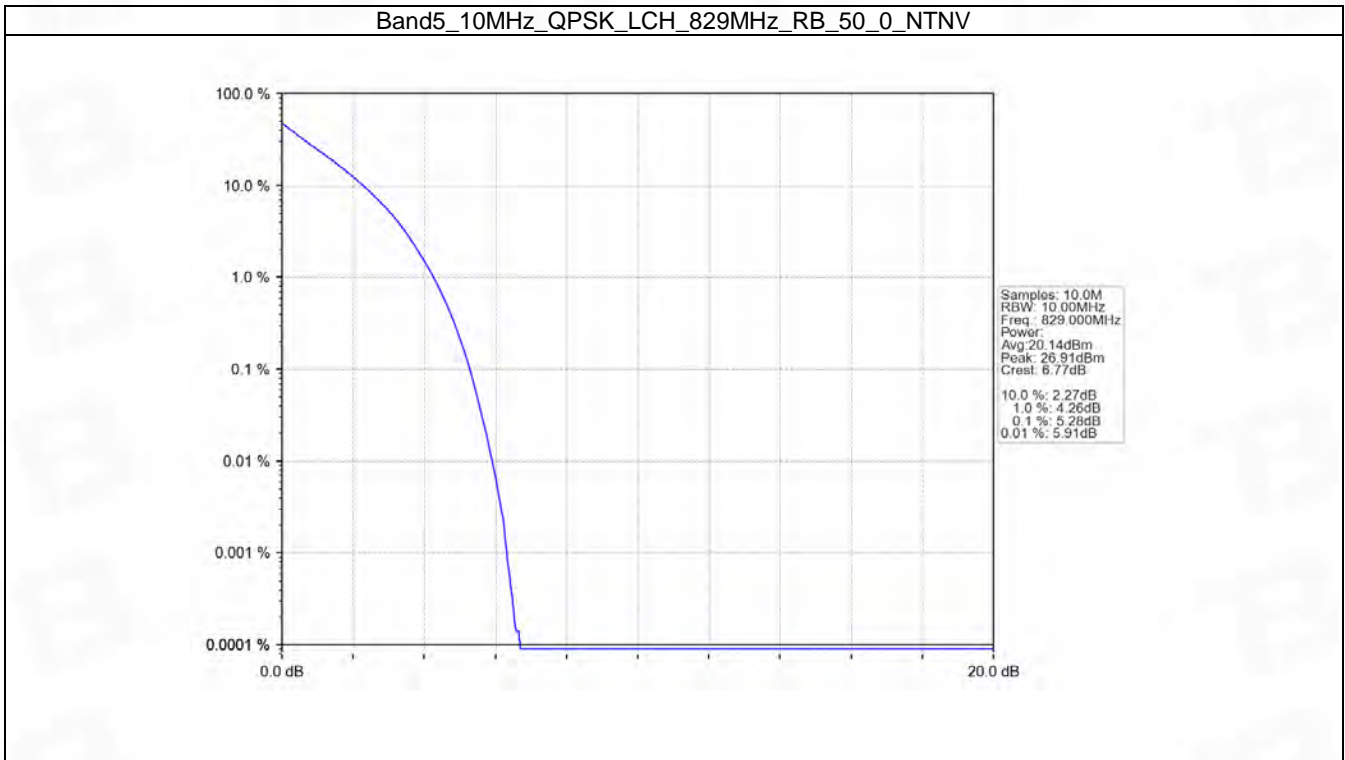
## 5.4 B5\_10MHz

### 5.4.1 Test Result

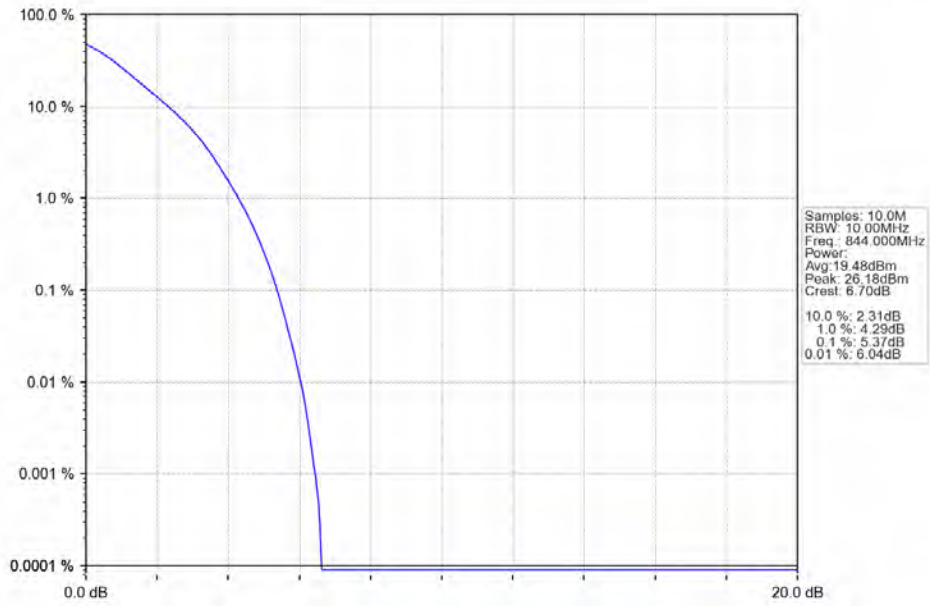
Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.28	<=13	Pass
	836.5	50	0	5.52	<=13	Pass
	844	50	0	5.37	<=13	Pass
16QAM	829	50	0	6.04	<=13	Pass
	836.5	50	0	6.33	<=13	Pass
	844	50	0	6.09	<=13	Pass



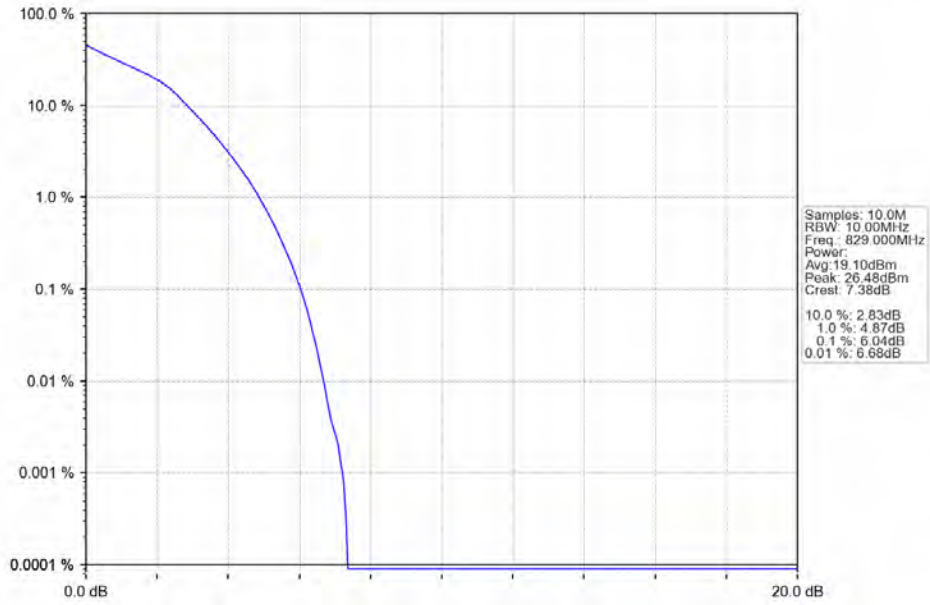
### 5.4.2 Test Graph



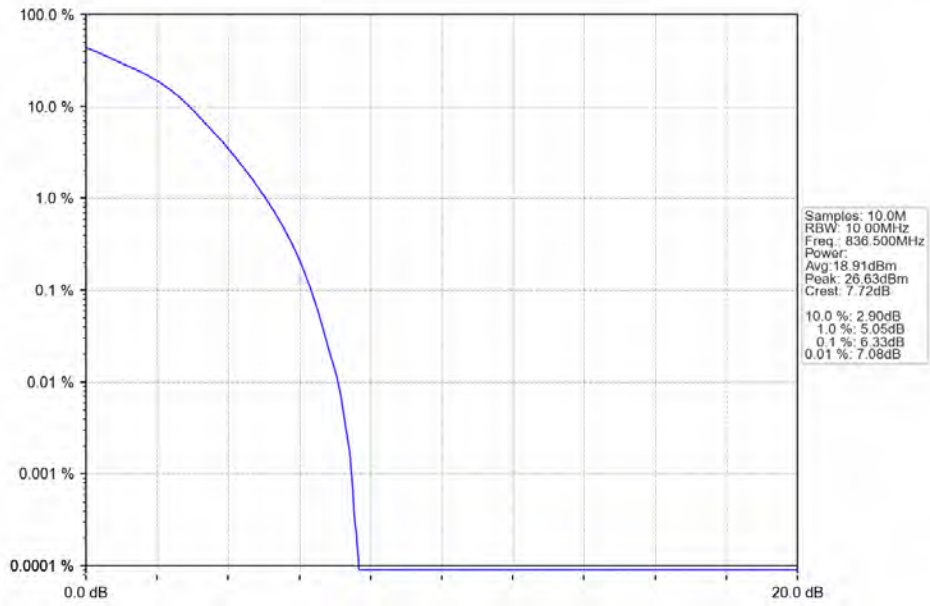
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



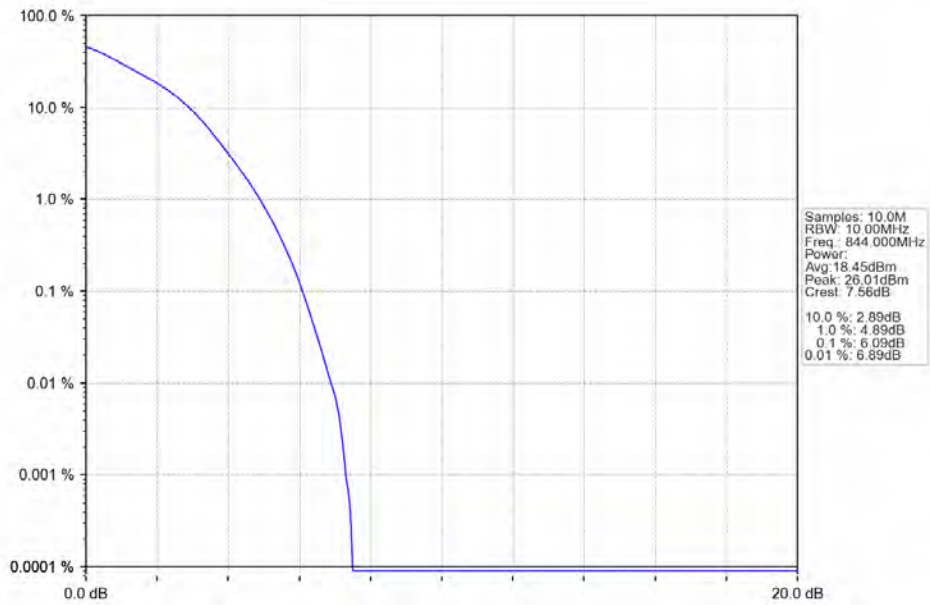
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



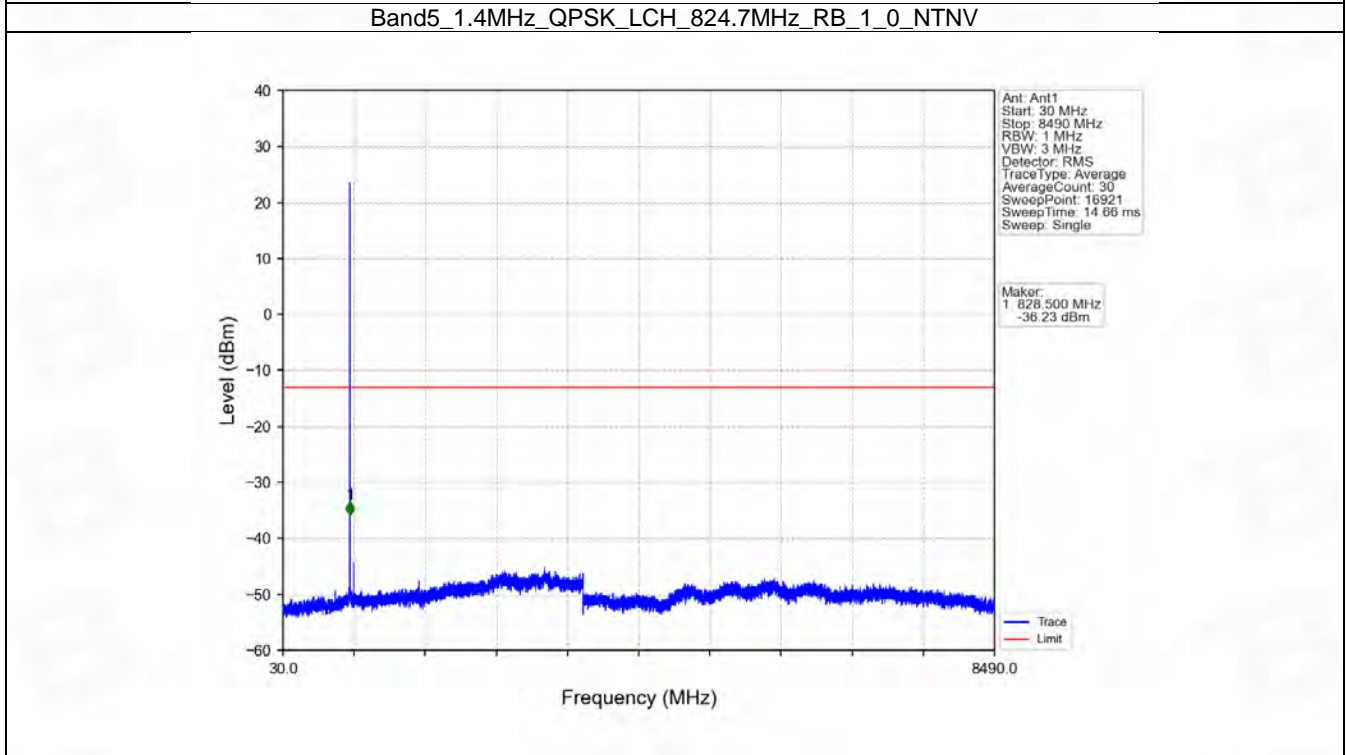
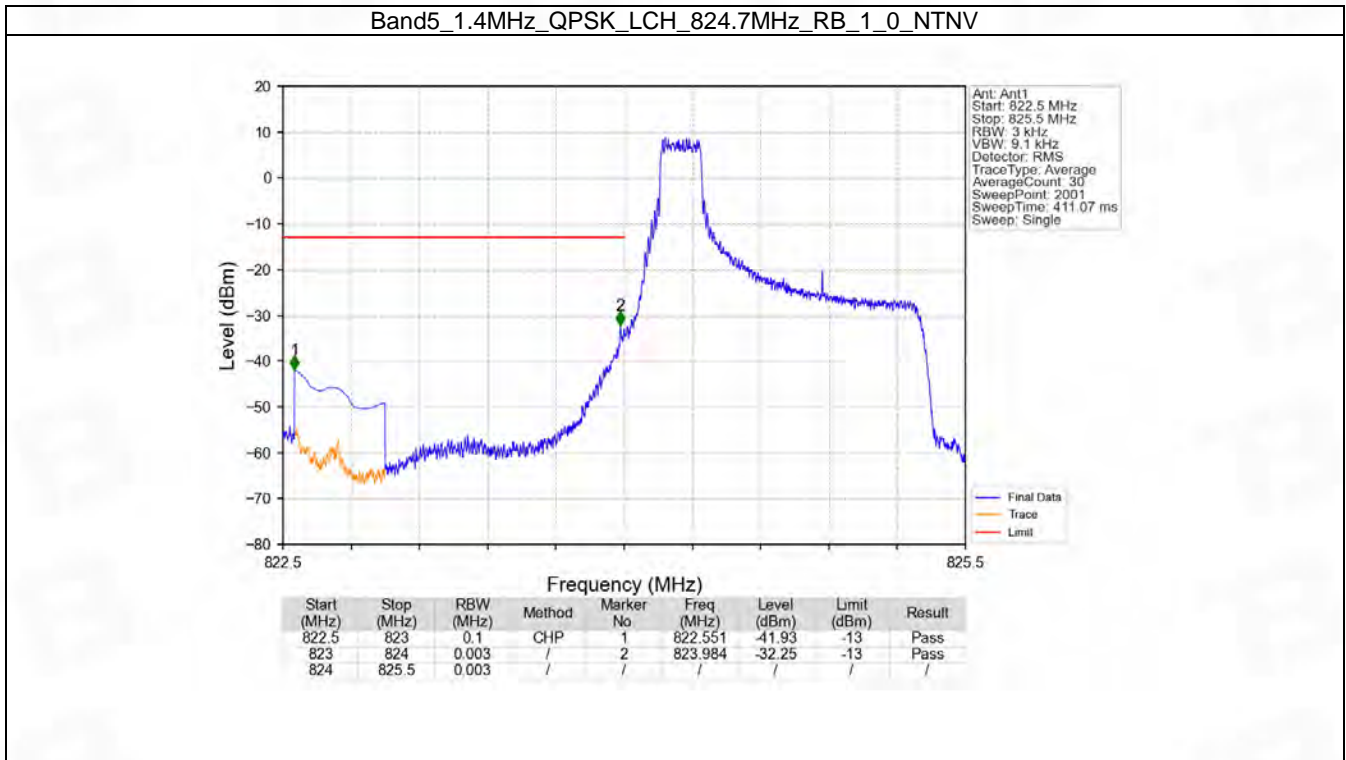
## 6. Spurious Emission

### 6.1 B5\_1.4MHz

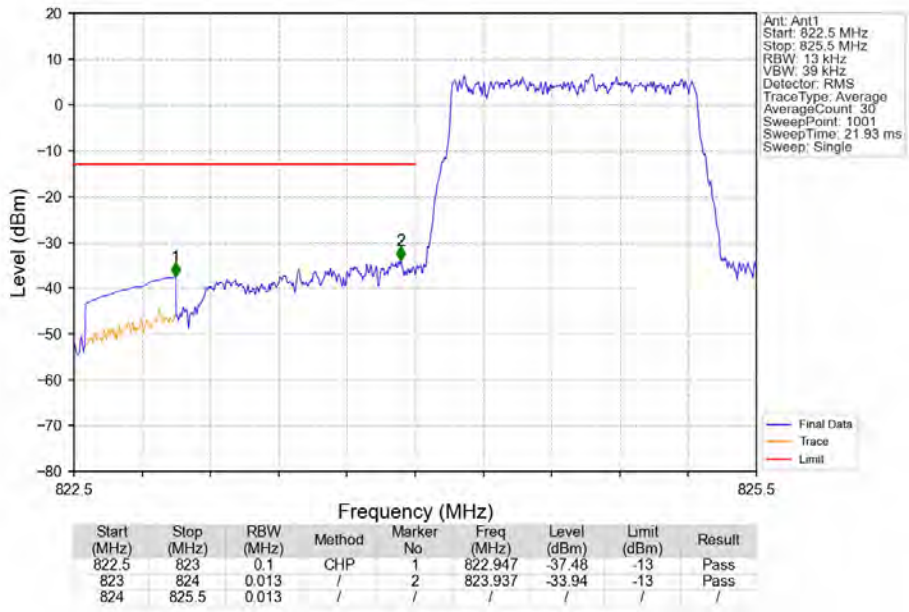
#### 6.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

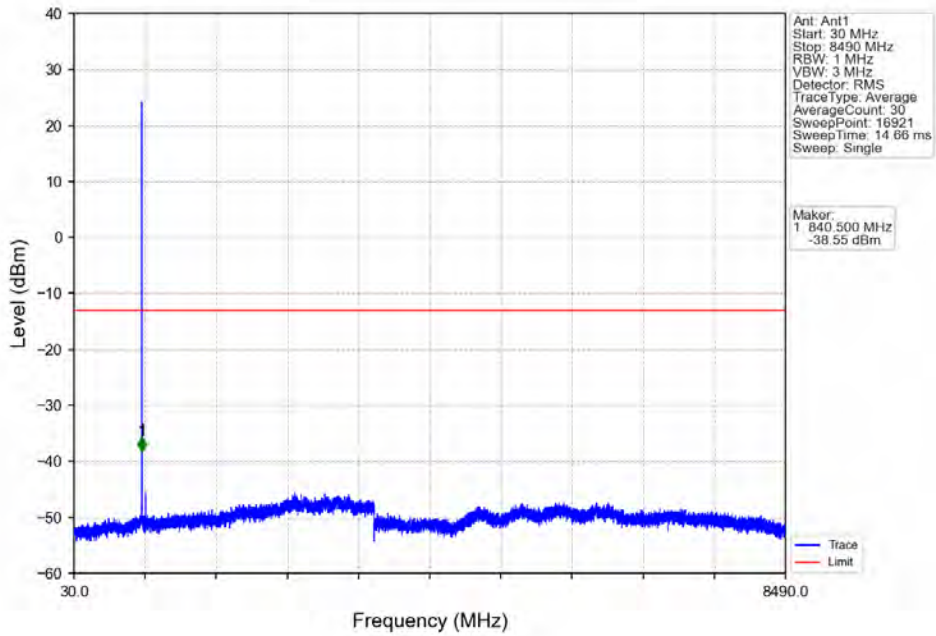
### 6.1.2 Test Graph



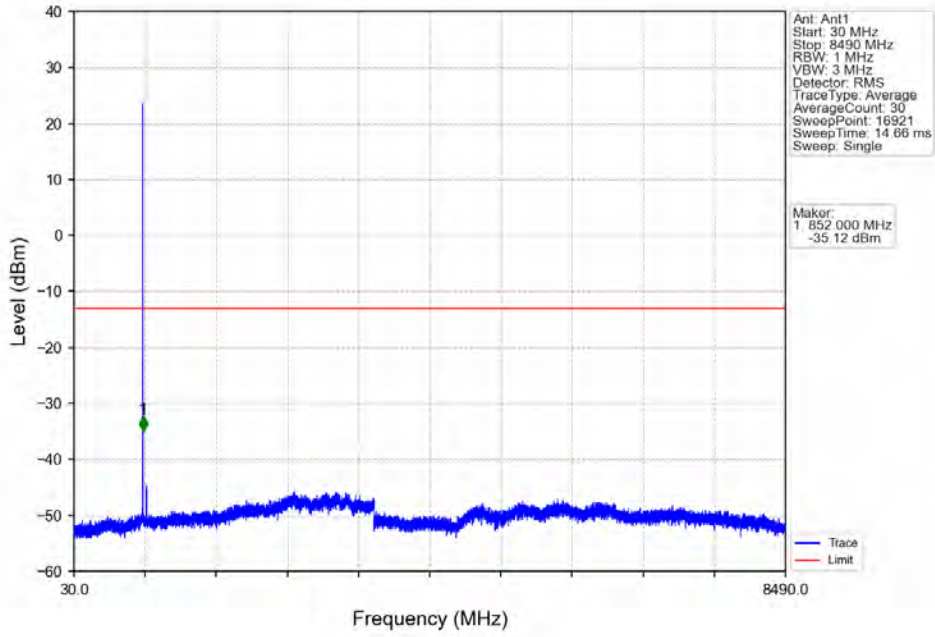
Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



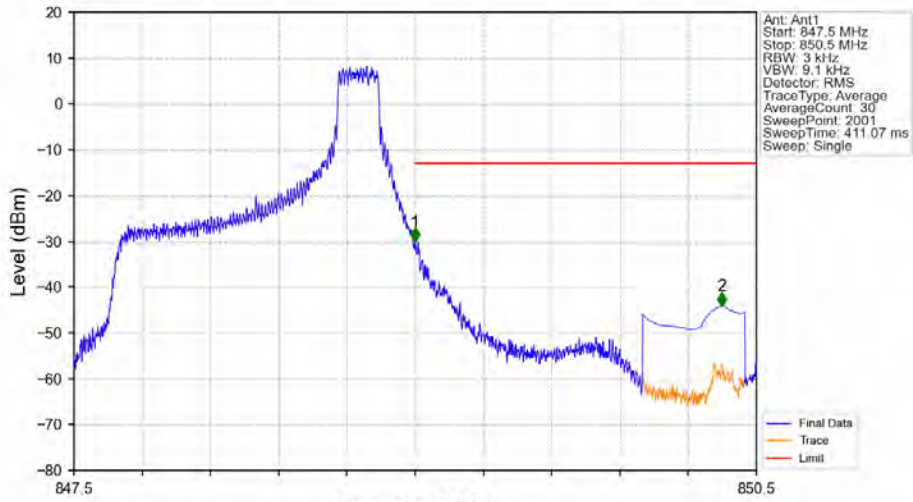
Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_0\_NTNV

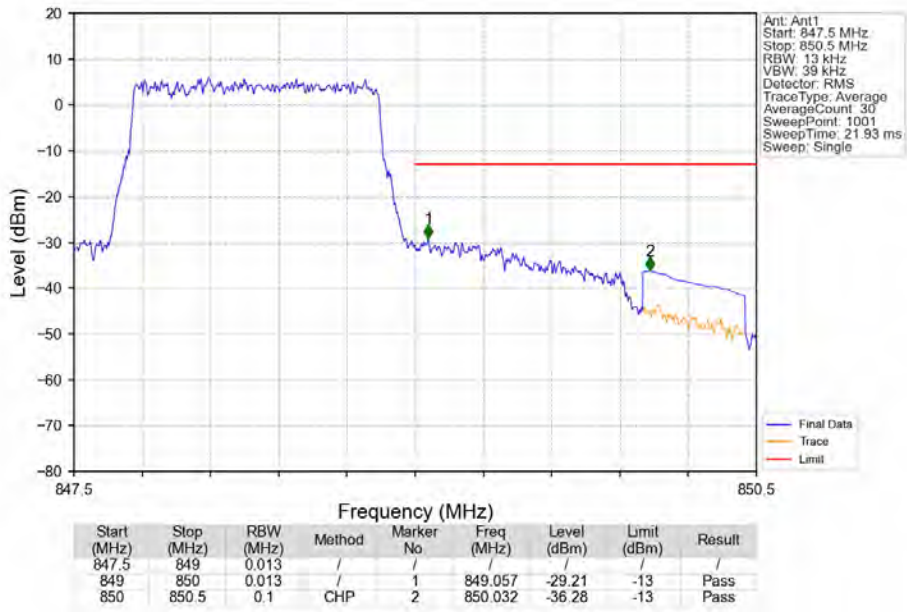


Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_5\_NTNV

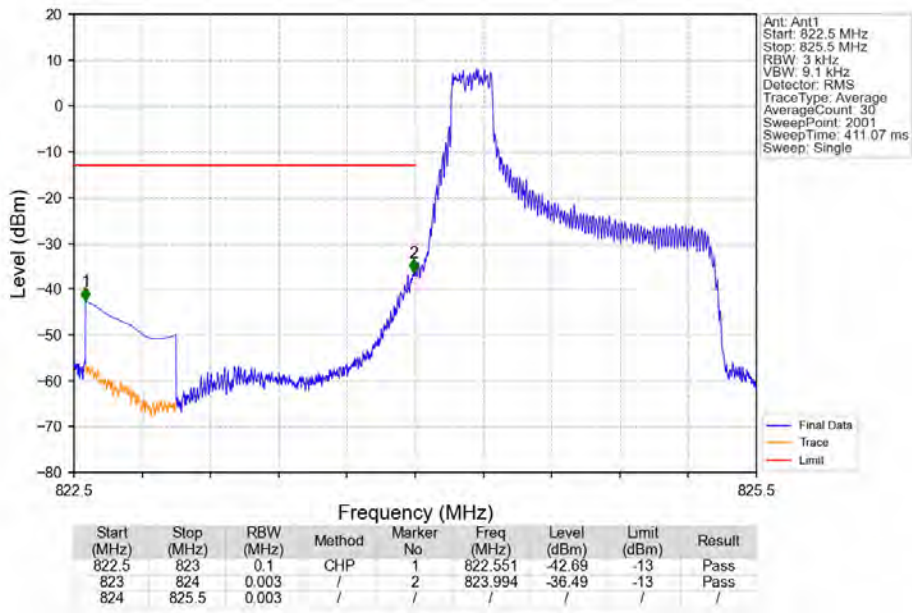


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	1	849.000	-30.10	-13	/
849	850	0.003	/	2	850.347	-44.11	-13	Pass

Band5 1.4MHz QPSK HCH 848.3MHz RB 6.0 NTNV

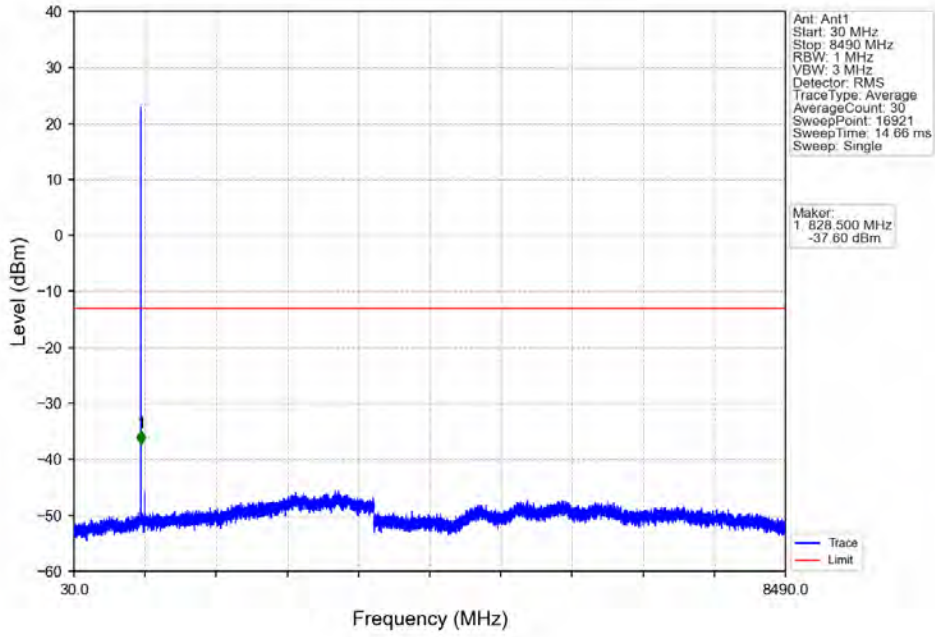


Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV

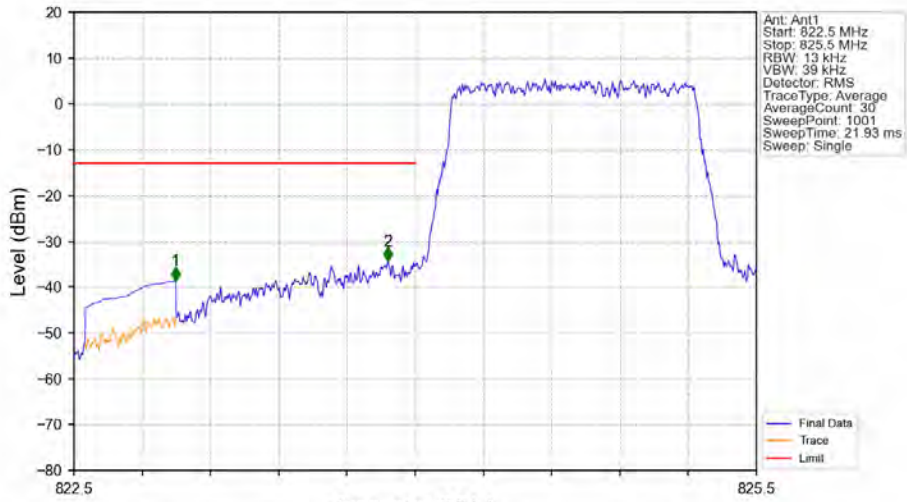




Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV

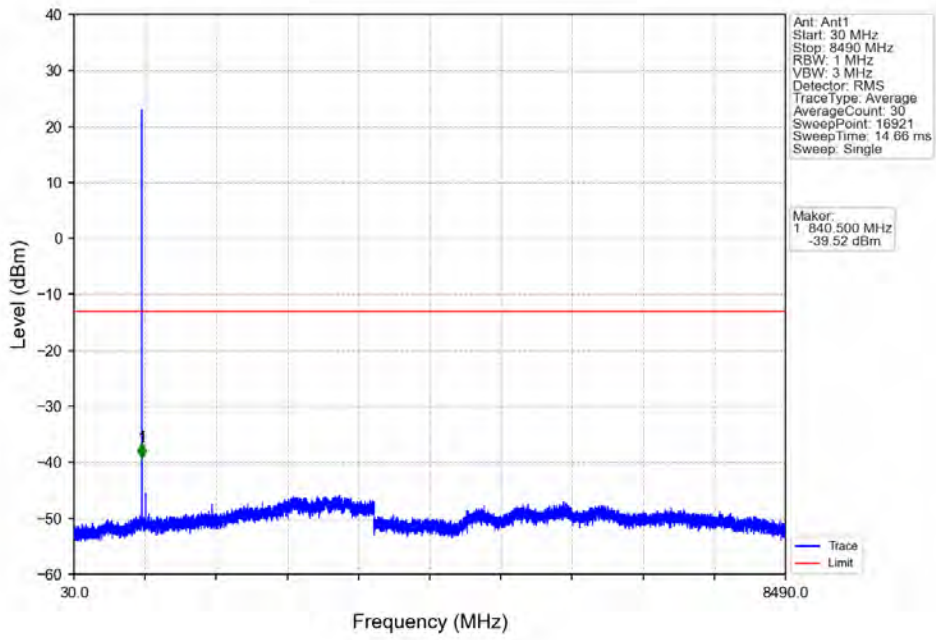


Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

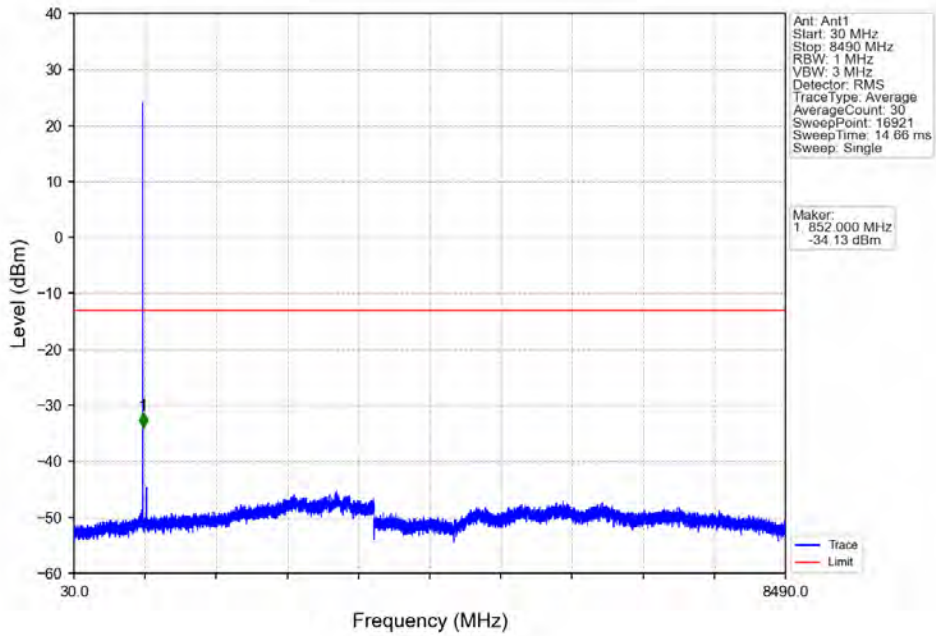


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-38.65	-13	Pass
823	824	0.013	/	2	823.880	-34.31	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

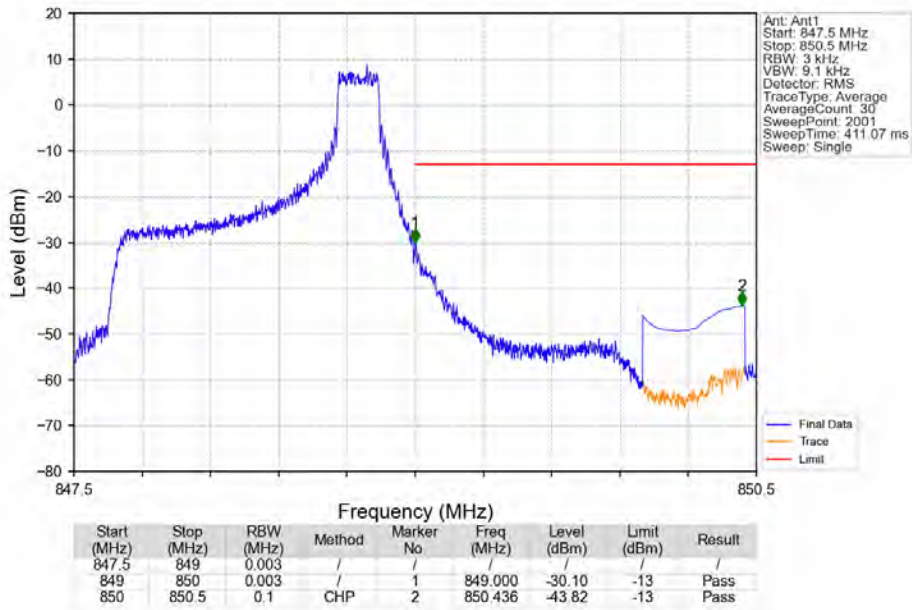
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



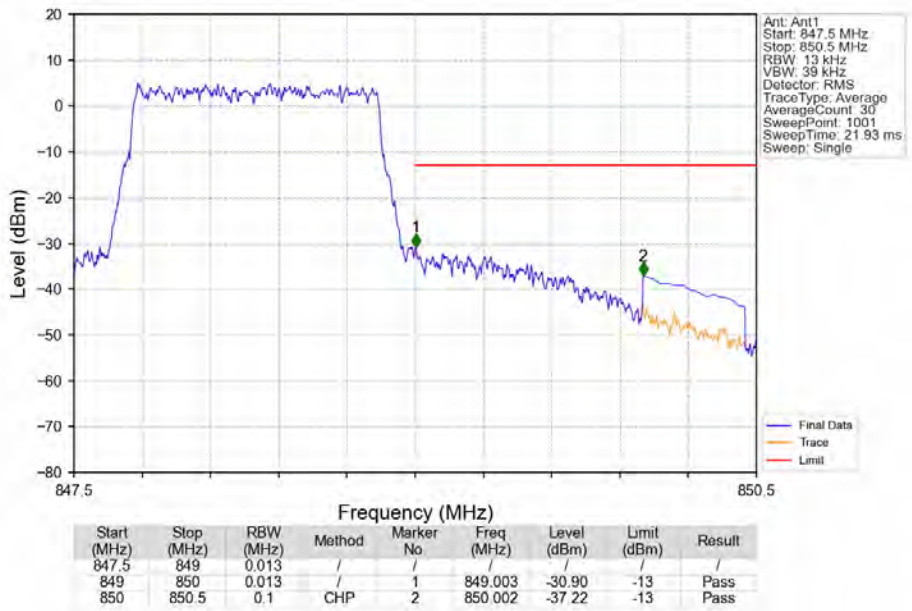
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV

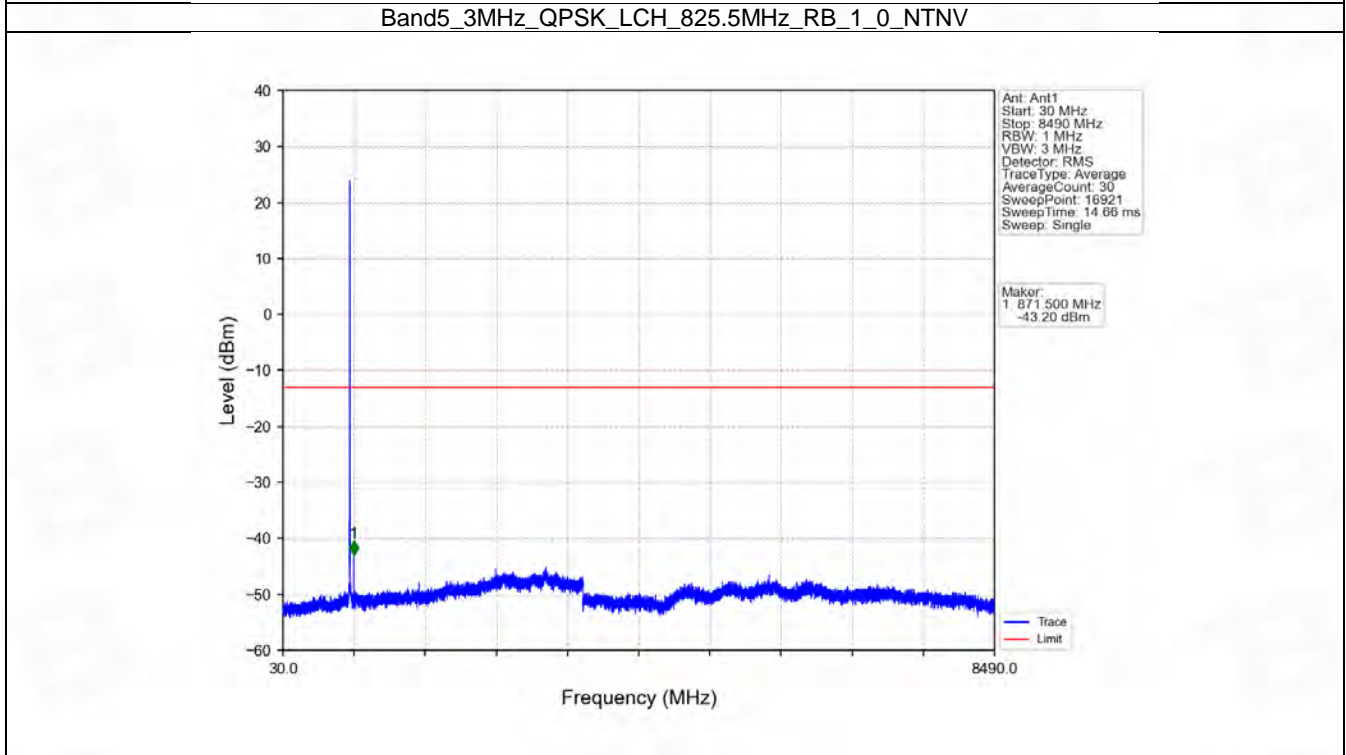
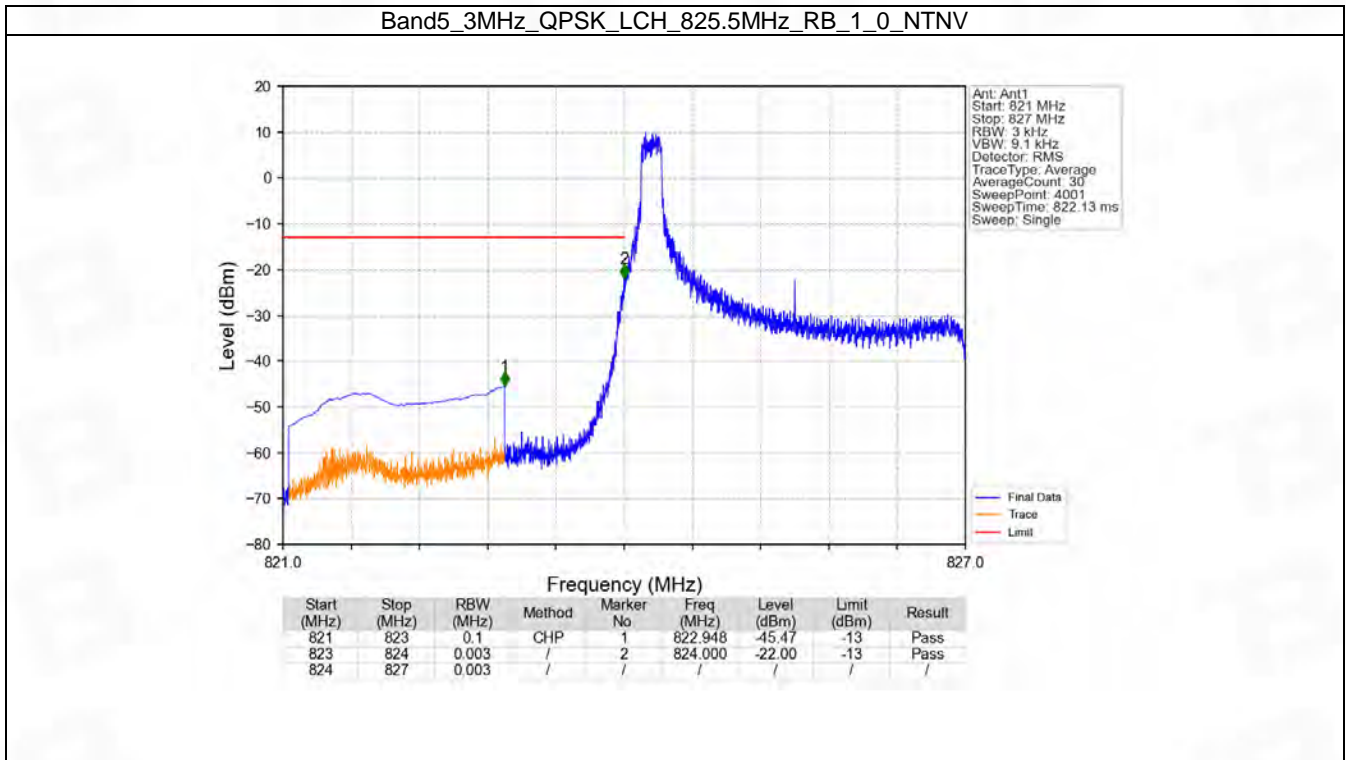


## 6.2 B5\_3MHz

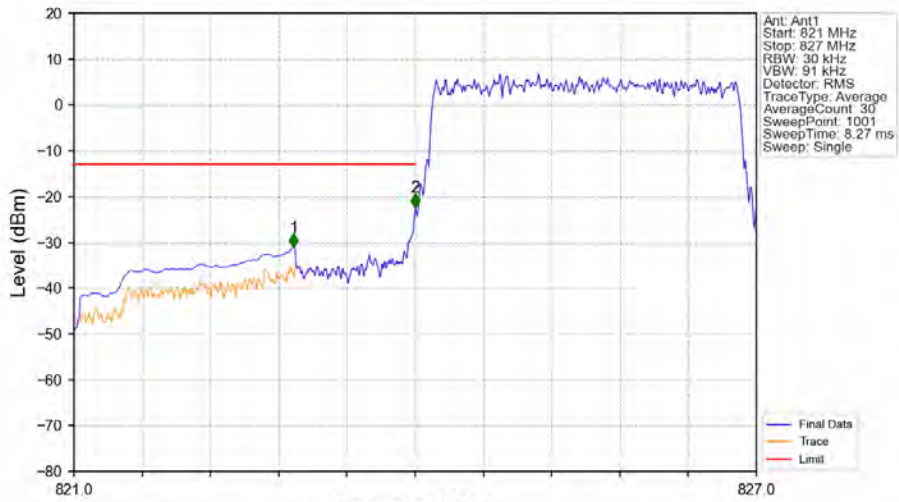
### 6.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

### 6.2.2 Test Graph

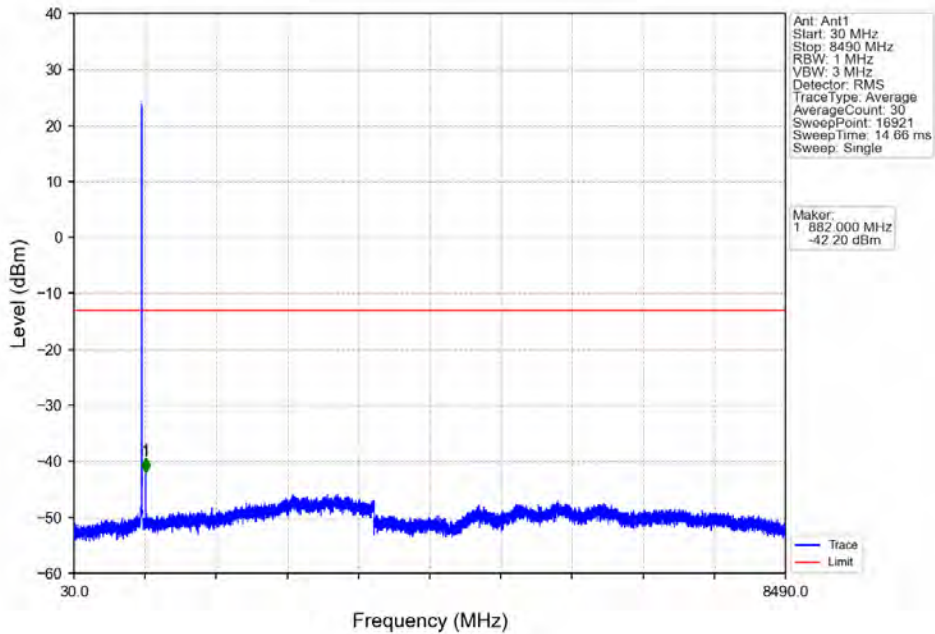


Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.932	-31.12	-13	Pass
823	824	0.03	/	2	824.000	-22.41	-13	Pass
824	827	0.03	/	/	/	/	/	/

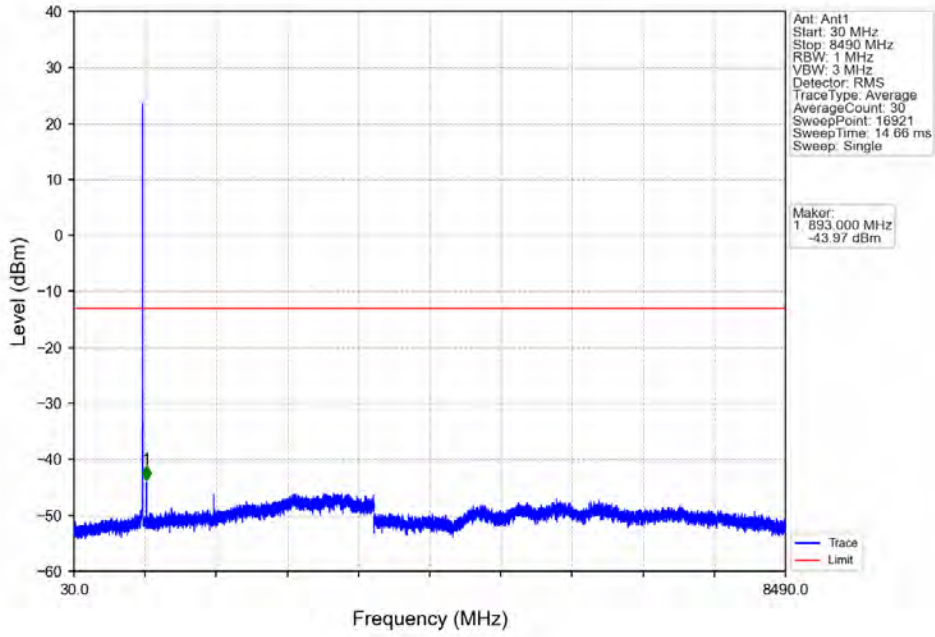
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



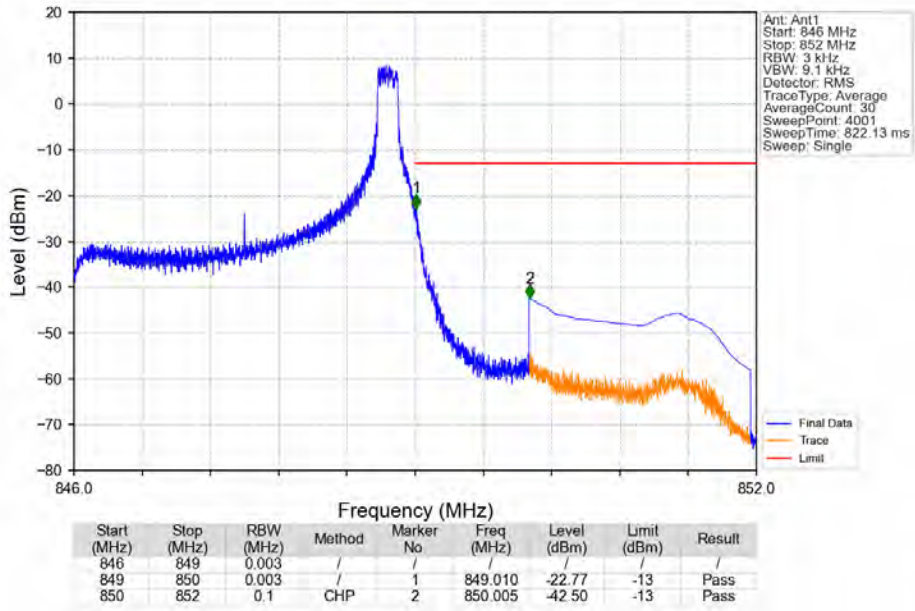
Ant: Ant1  
 Start: 30 MHz  
 Stop: 8490 MHz  
 RBW: 1 MHz  
 VBW: 3 MHz  
 Detector: RMS  
 Trace Type: Average  
 Average Count: 30  
 Sweep Point: 16921  
 Sweep Time: 14.66 ms  
 Sweep: Single

Marker:  
 1 836.500 MHz  
 -42.20 dBm

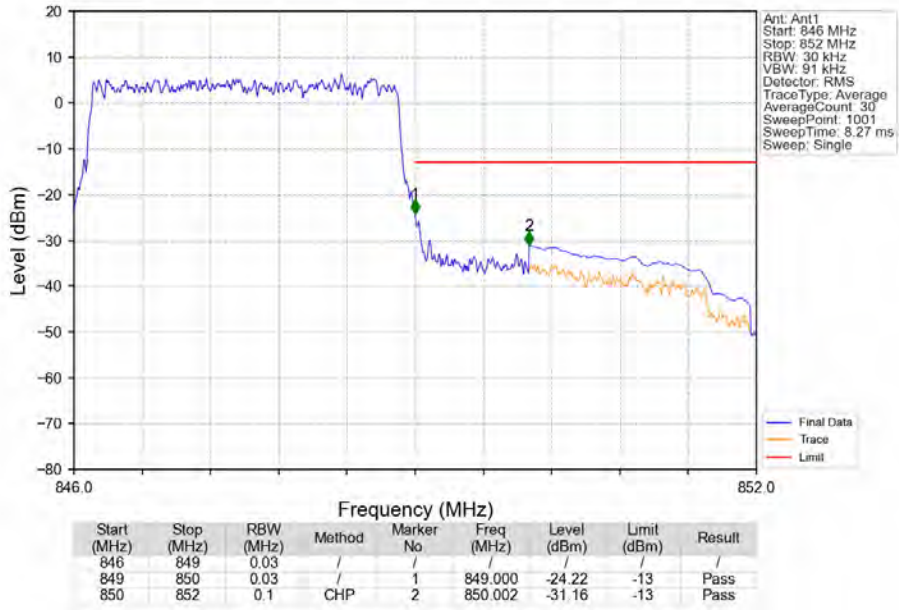
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



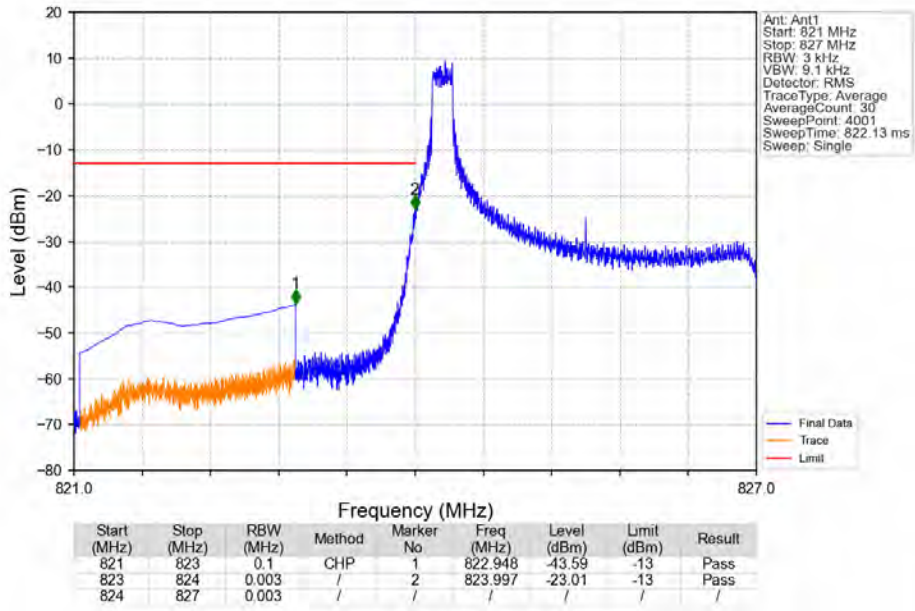
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

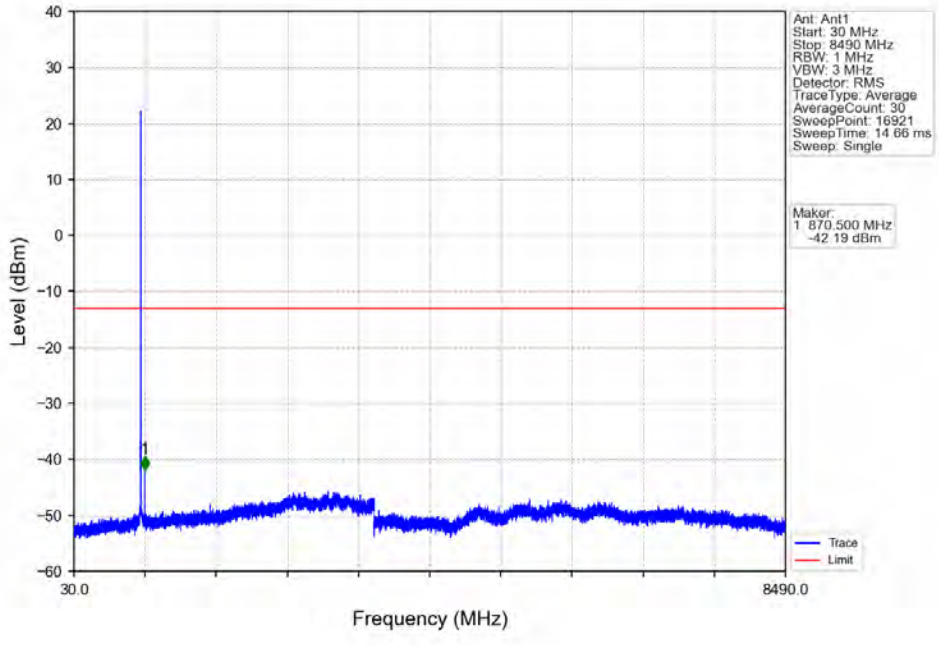


Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV

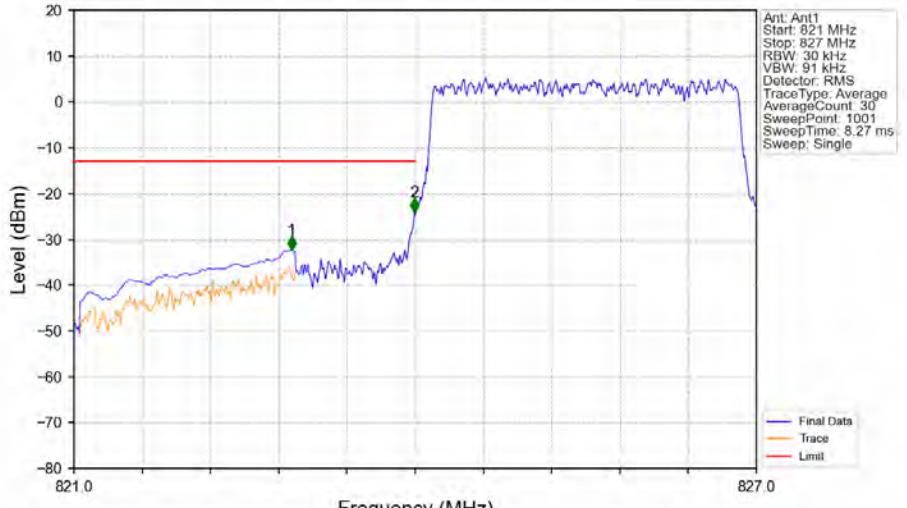




Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV

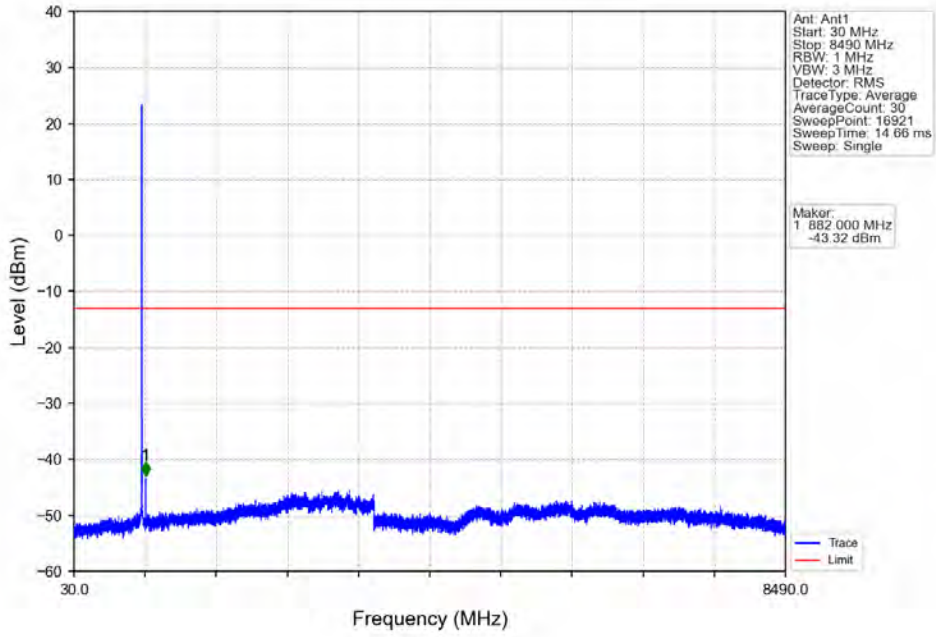


Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

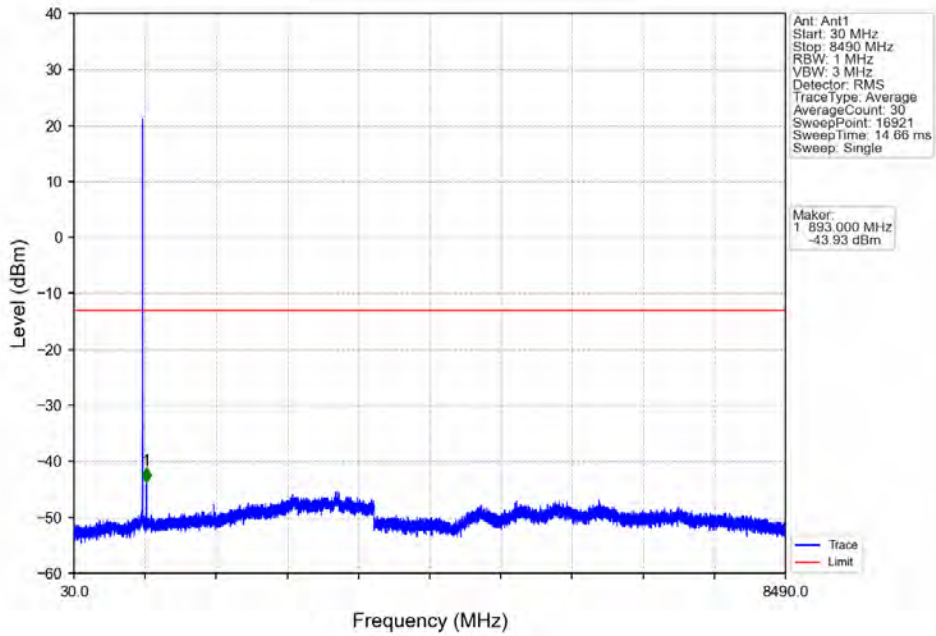


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.914	-32.36	-13	Pass
823	824	0.03	/	2	823.994	-24.15	-13	Pass
824	827	0.03	/	/	/	/	/	/

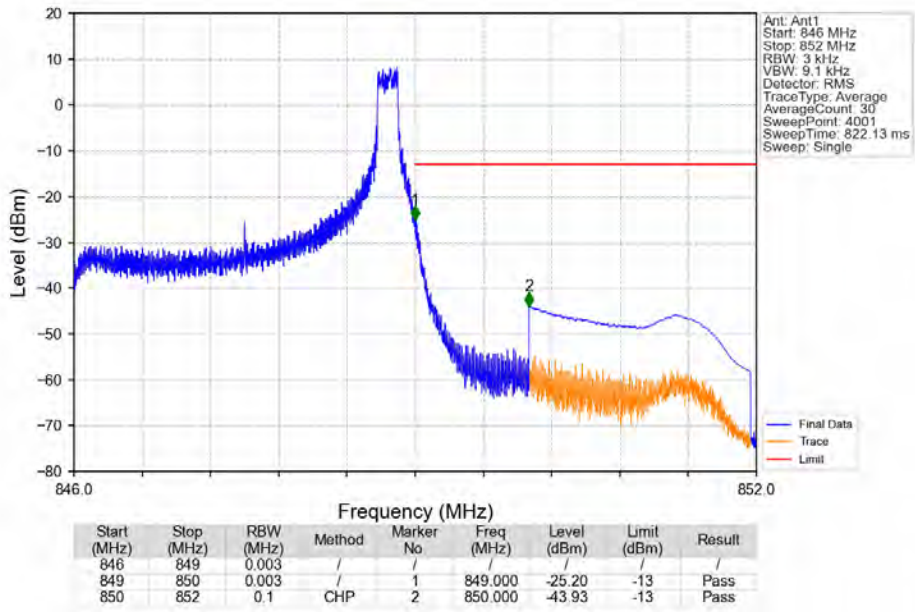
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



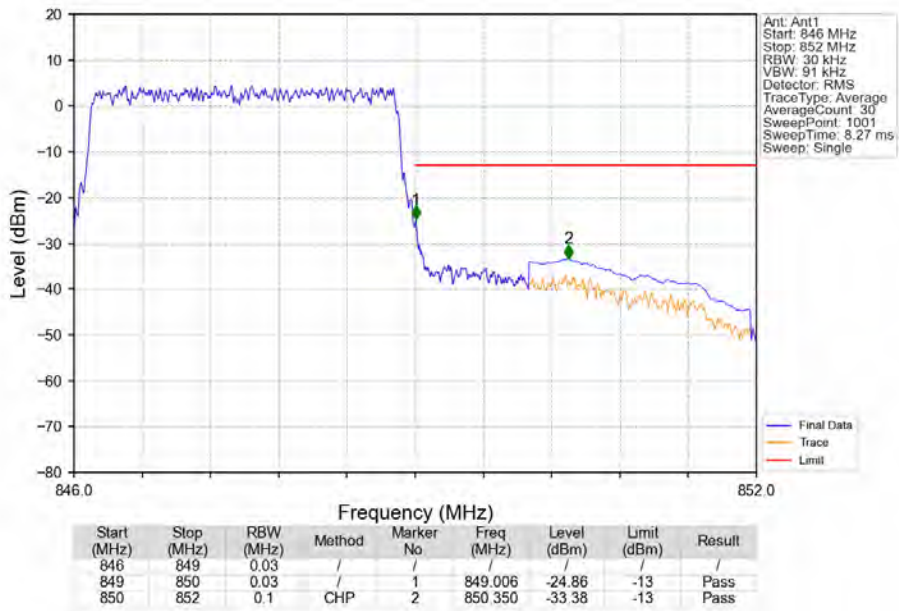
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

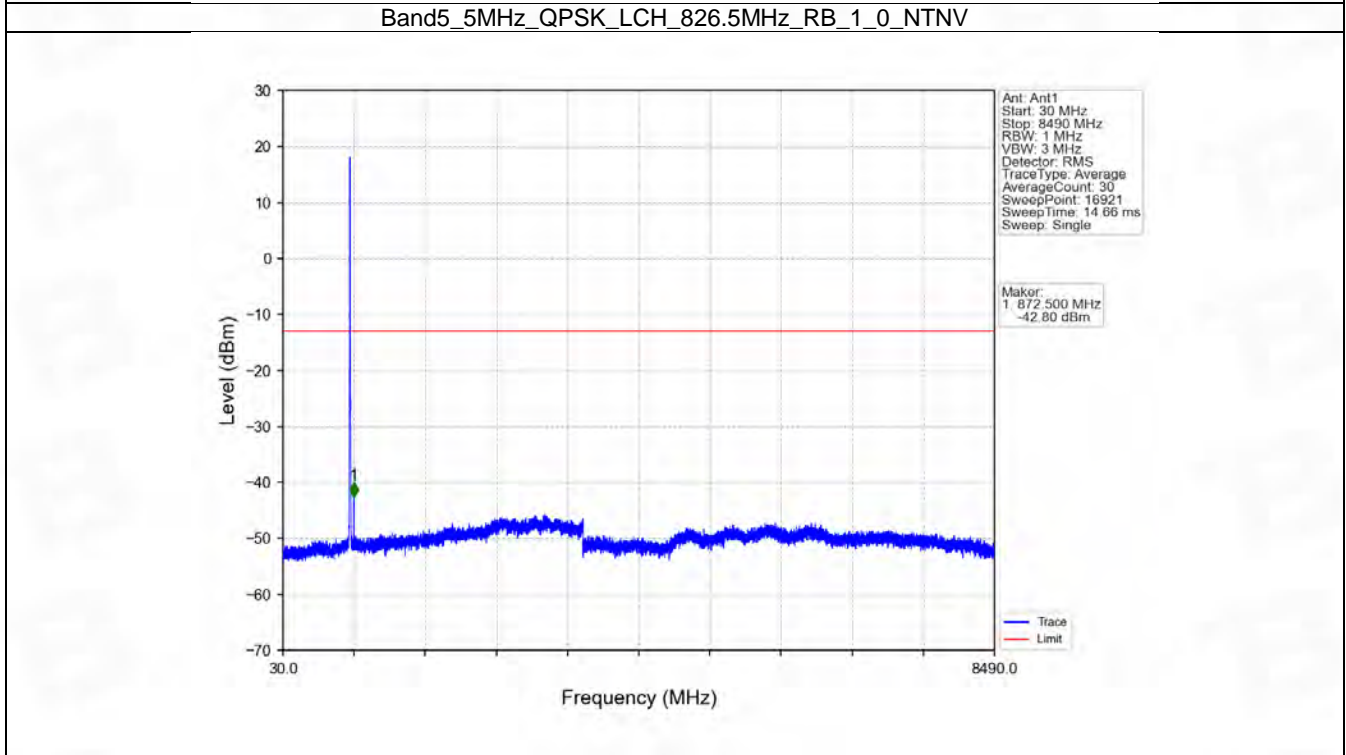
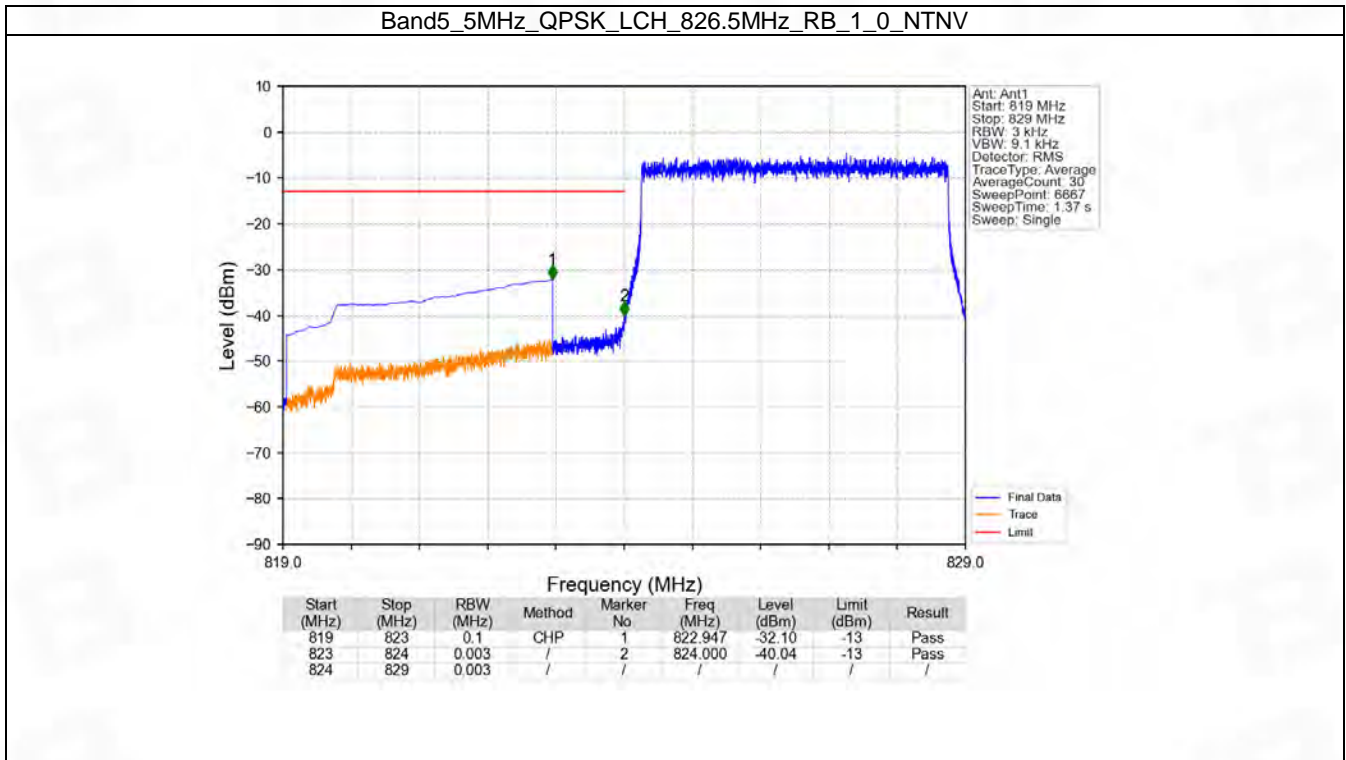


## 6.3 B5\_5MHz

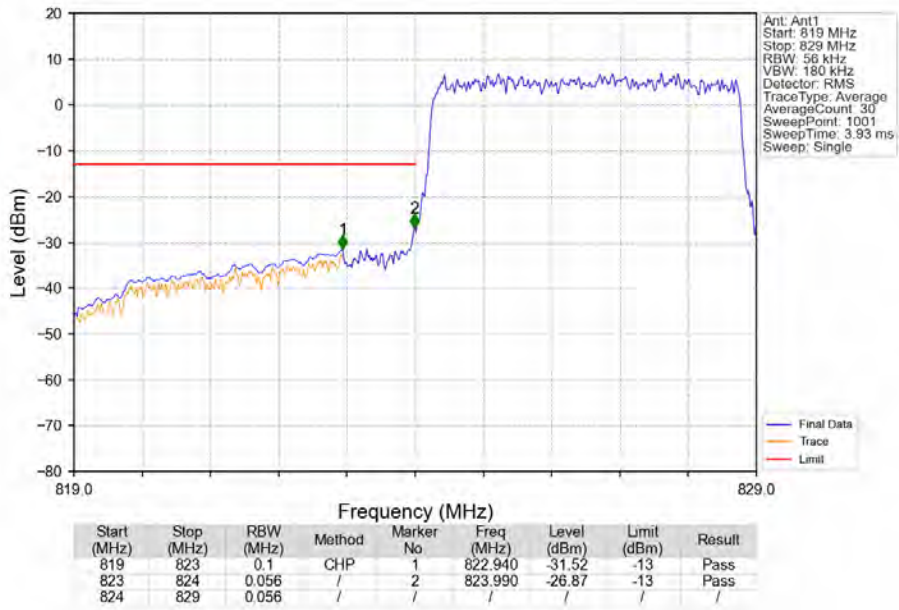
### 6.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

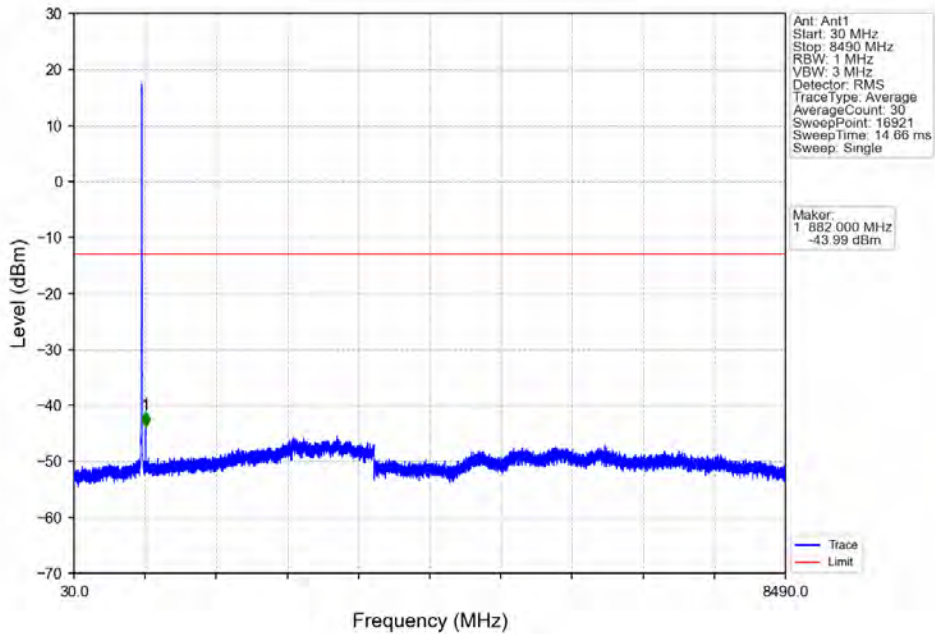
### 6.3.2 Test Graph



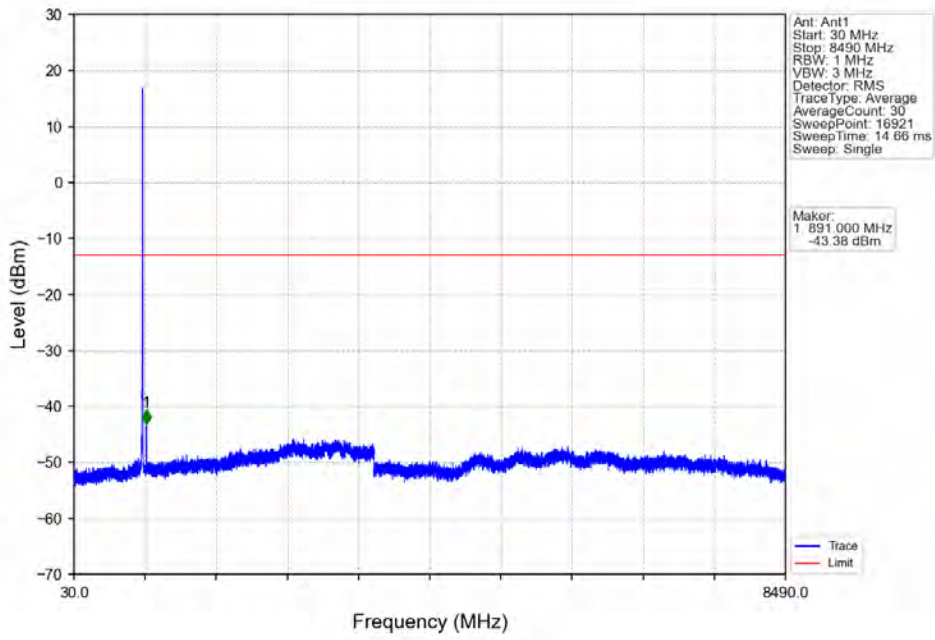
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



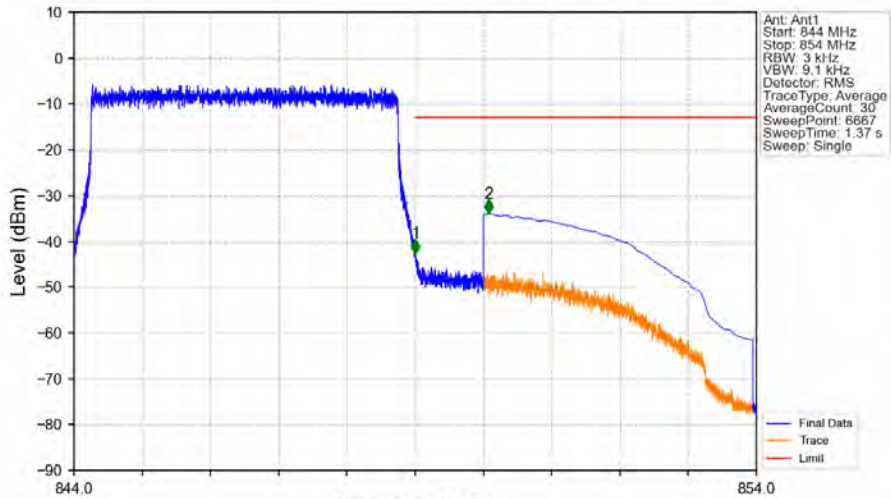
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_0\_NTNV

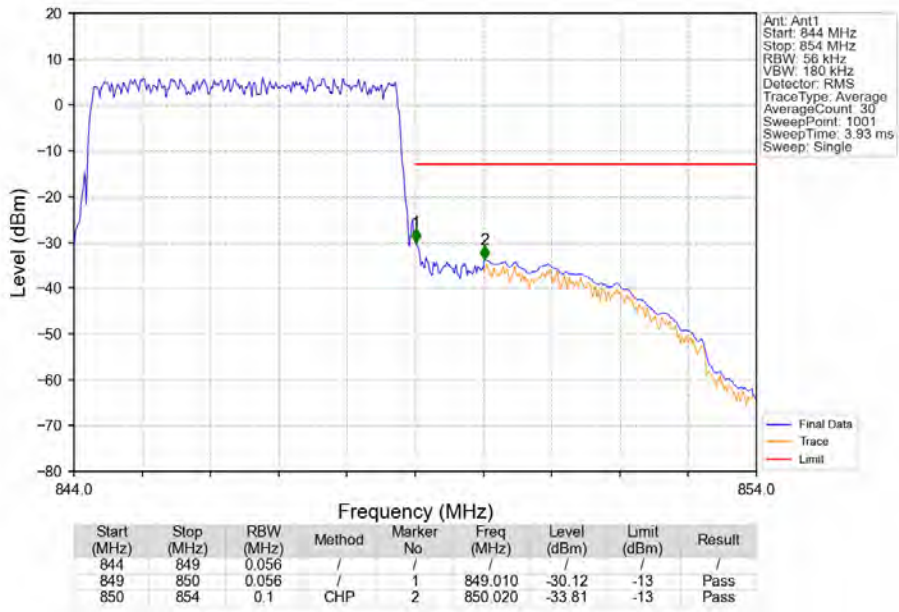


Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_24\_NTNV

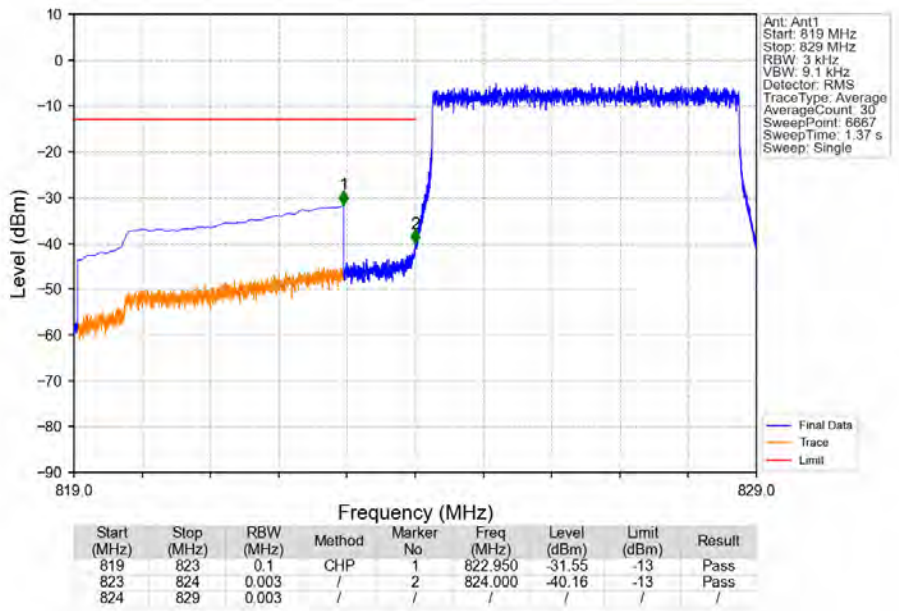


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	1	849.001	-42.64	-13	Pass
849	850	0.003	/	1	849.001	-42.64	-13	Pass
850	854	0.1	CHP	2	850.077	-33.93	-13	Pass

Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

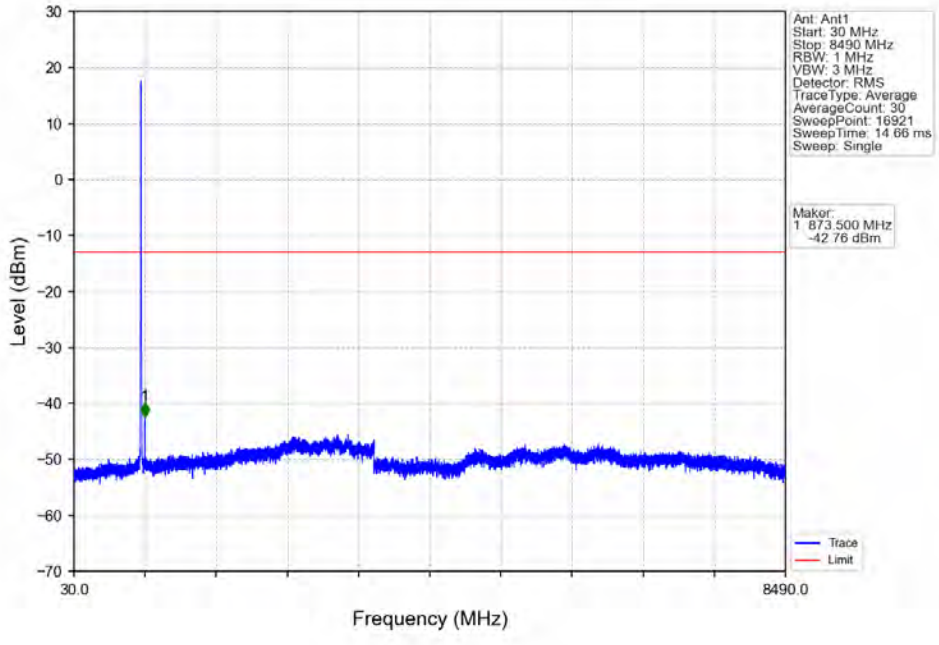


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

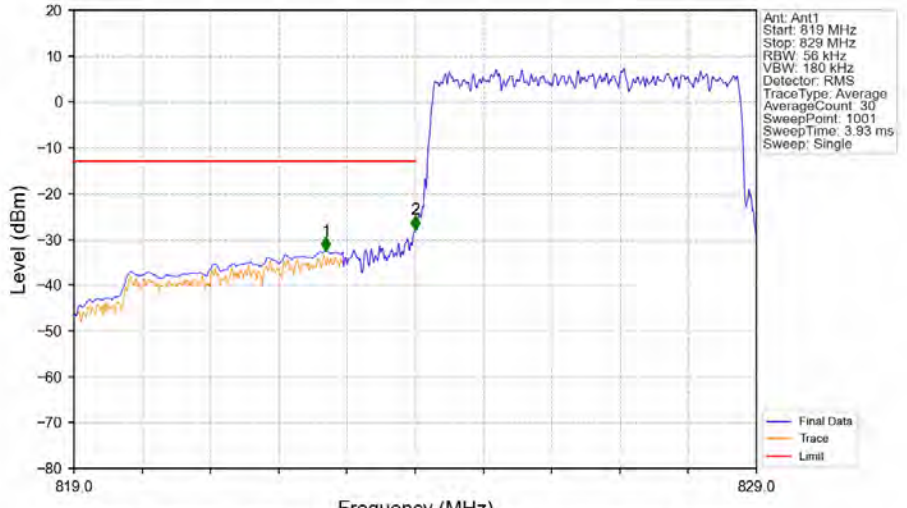




Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

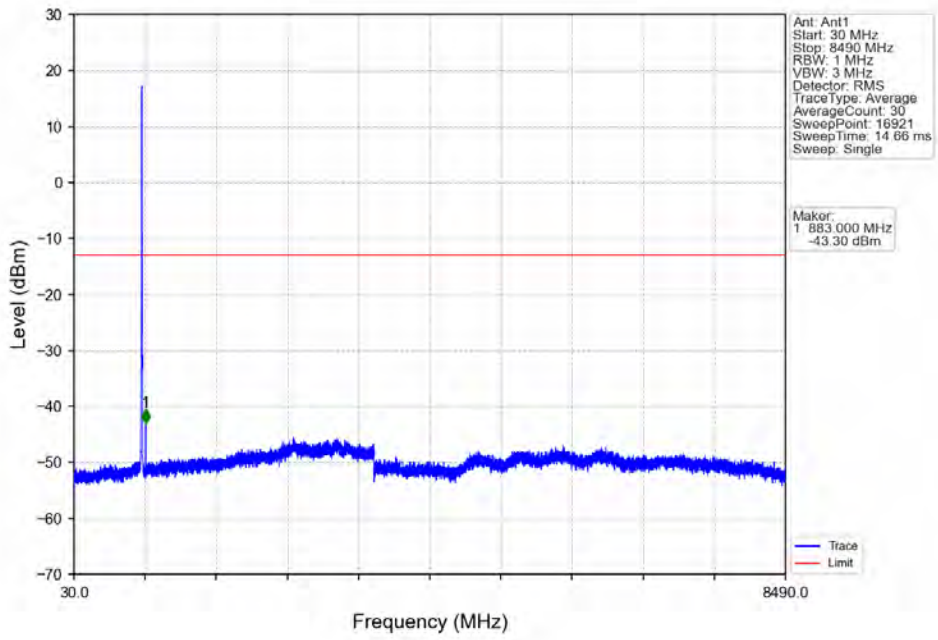


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

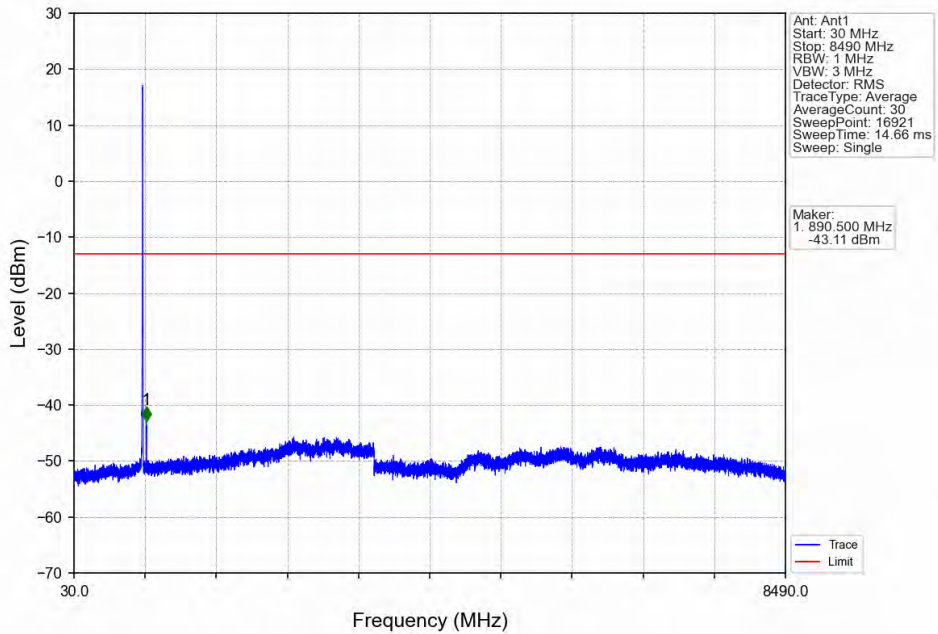


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.690	-32.50	-13	Pass
823	824	0.056	/	2	824.000	-27.89	-13	Pass
824	829	0.056	/	/	/	/	/	/

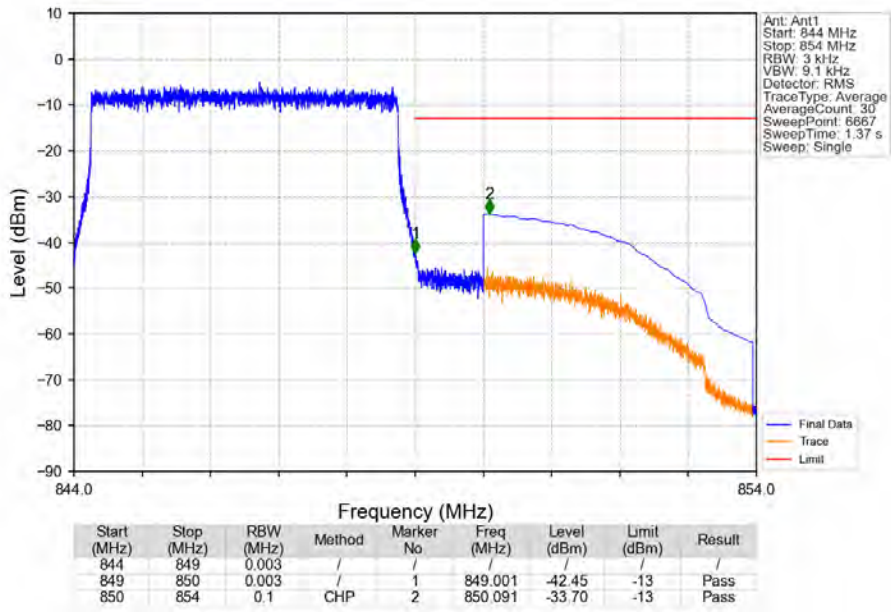
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



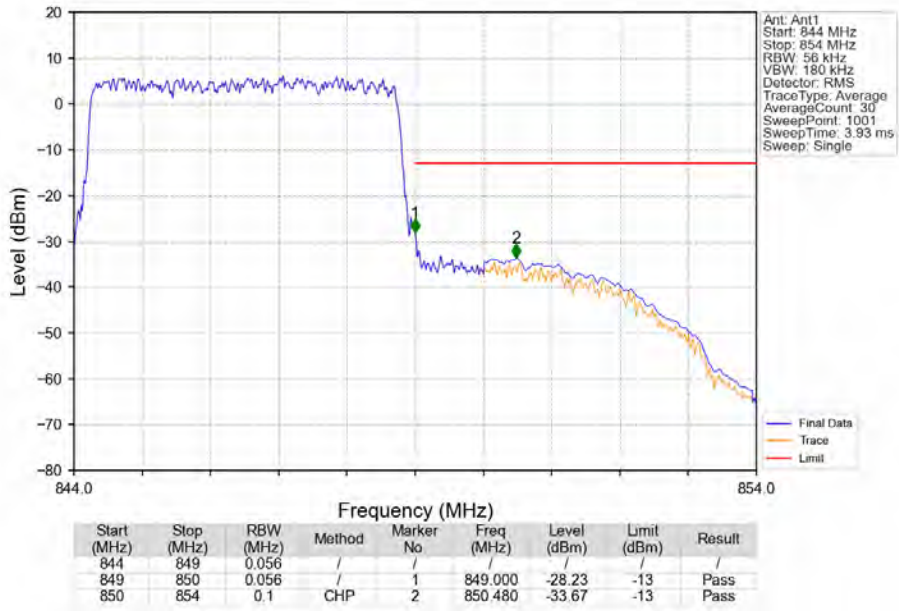
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

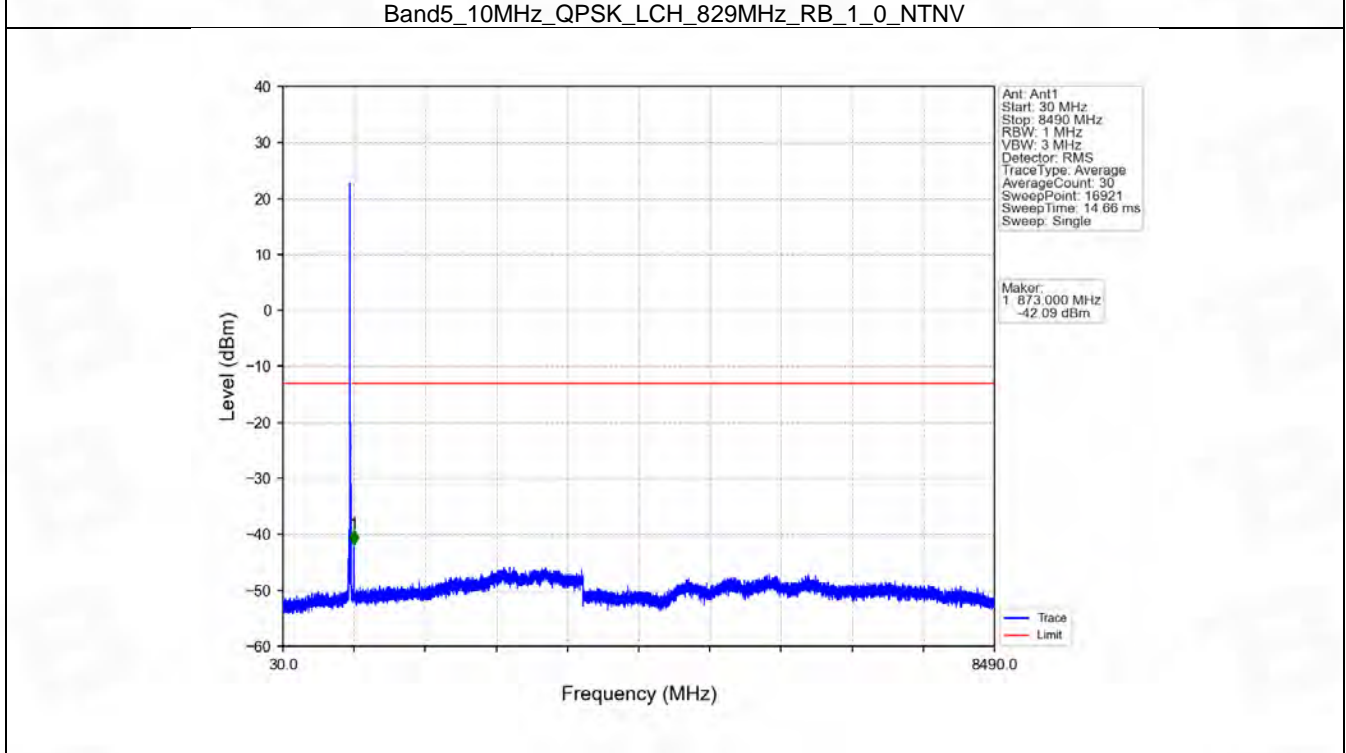
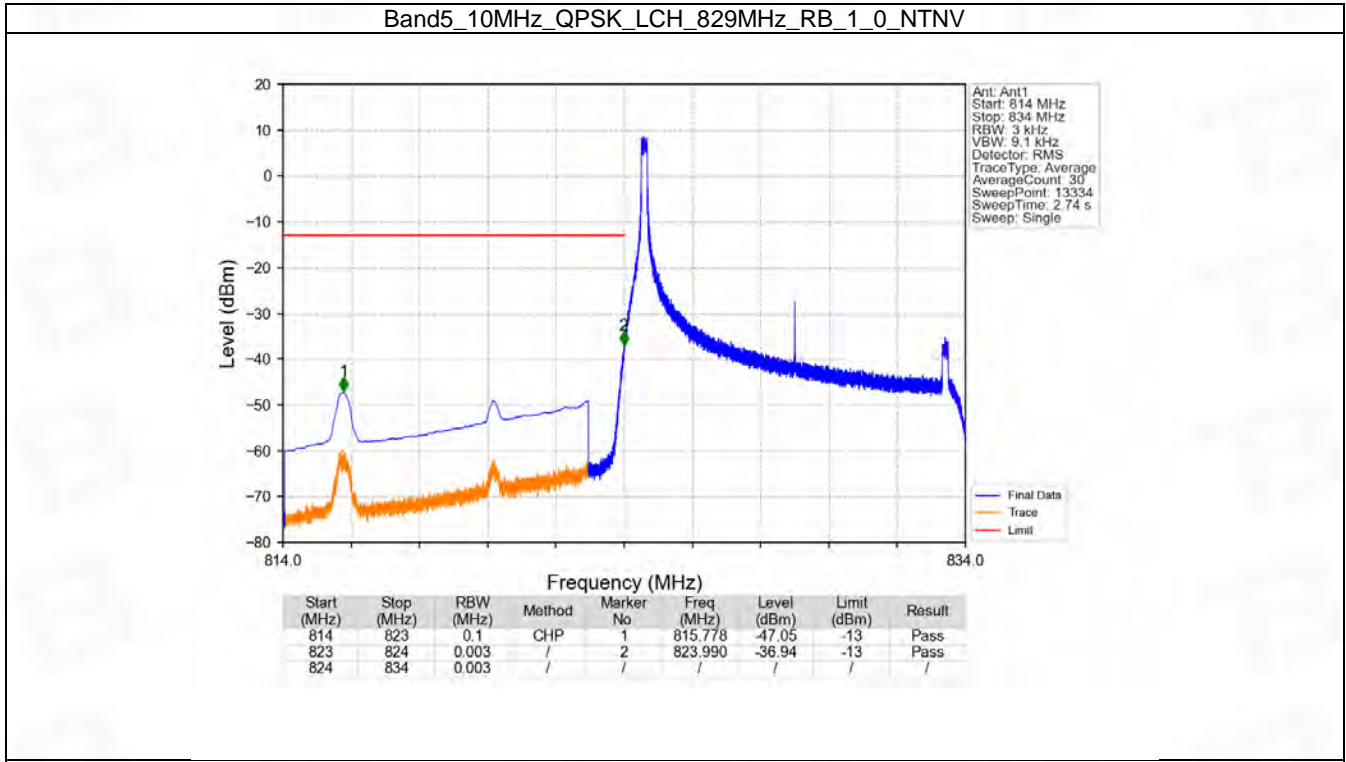


## 6.4 B5\_10MHz

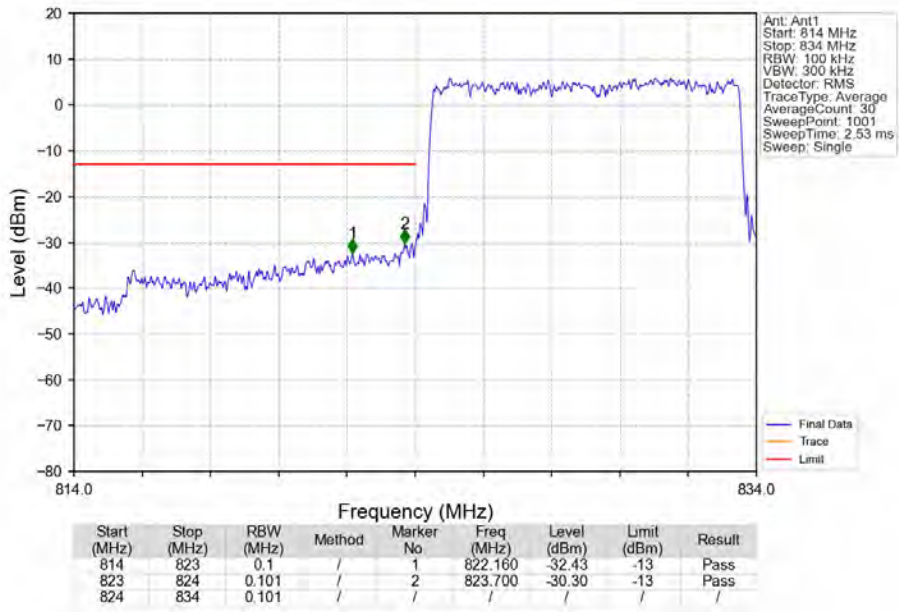
### 6.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

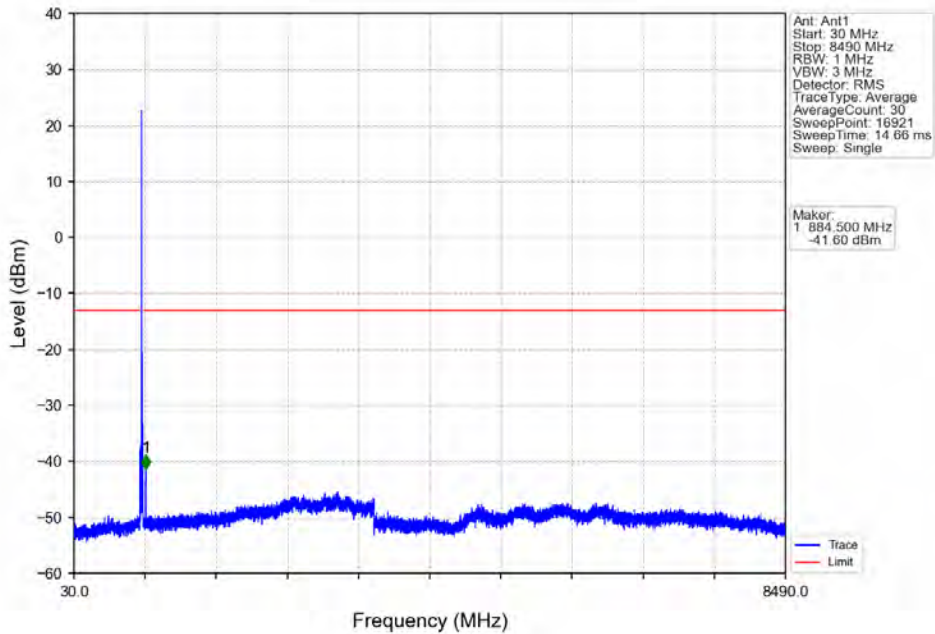
### 6.4.2 Test Graph



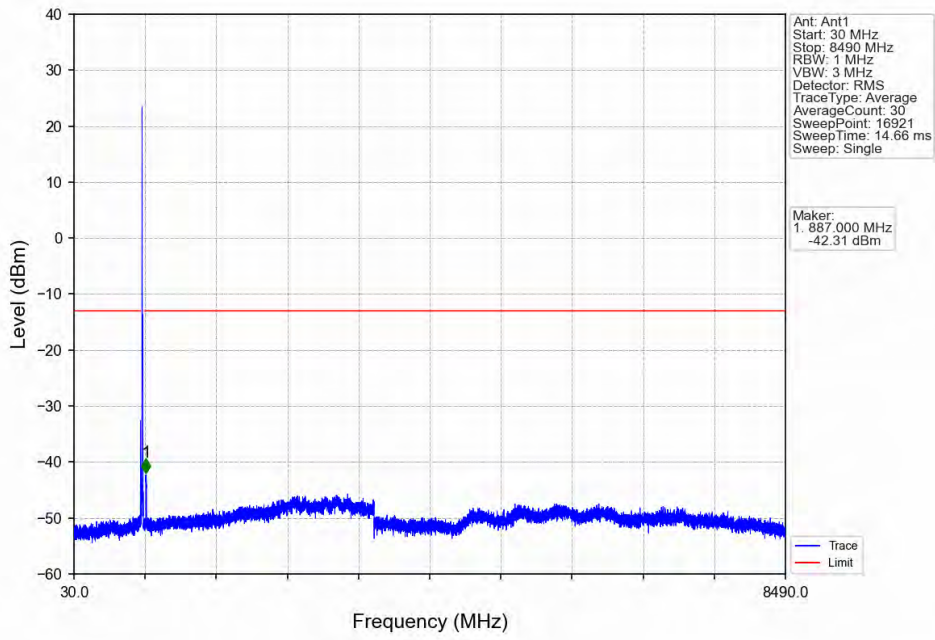
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



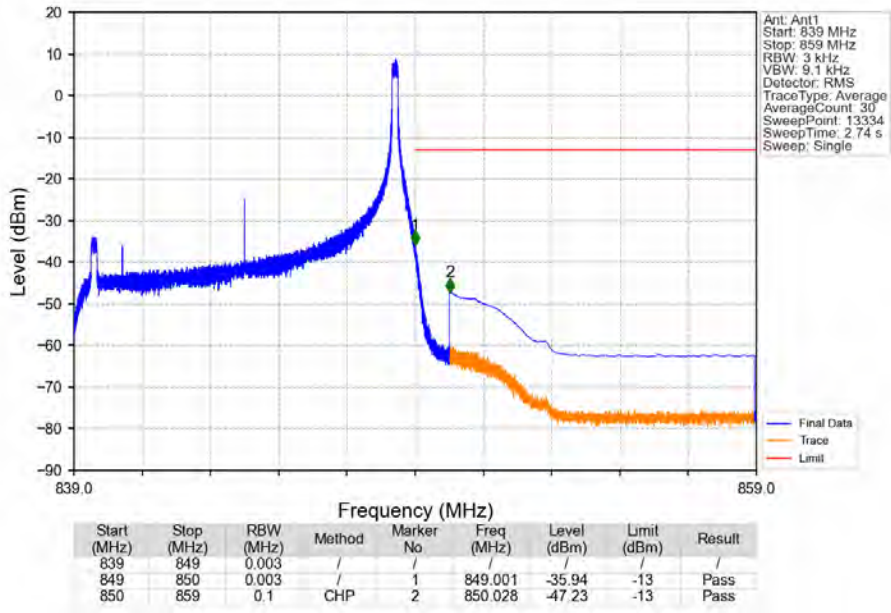
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



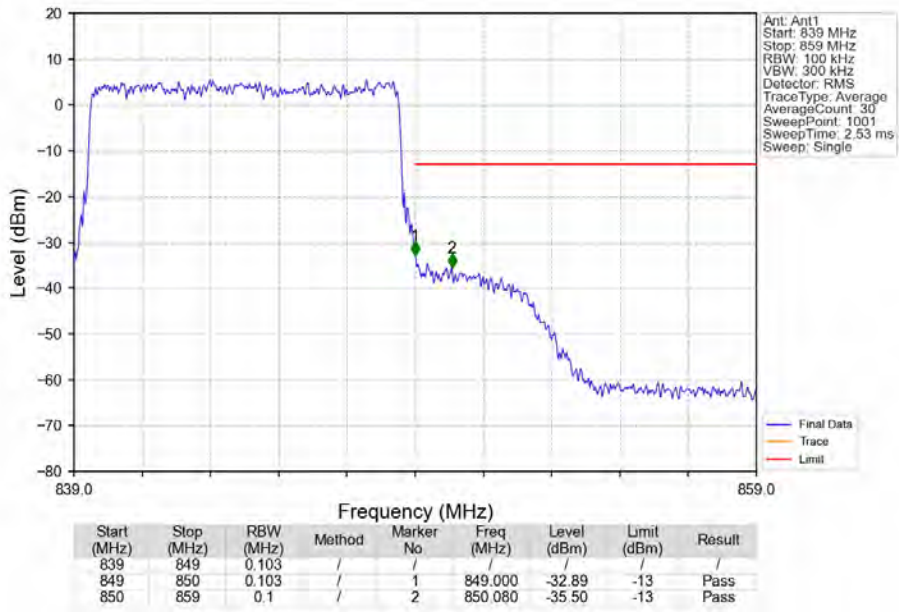
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV



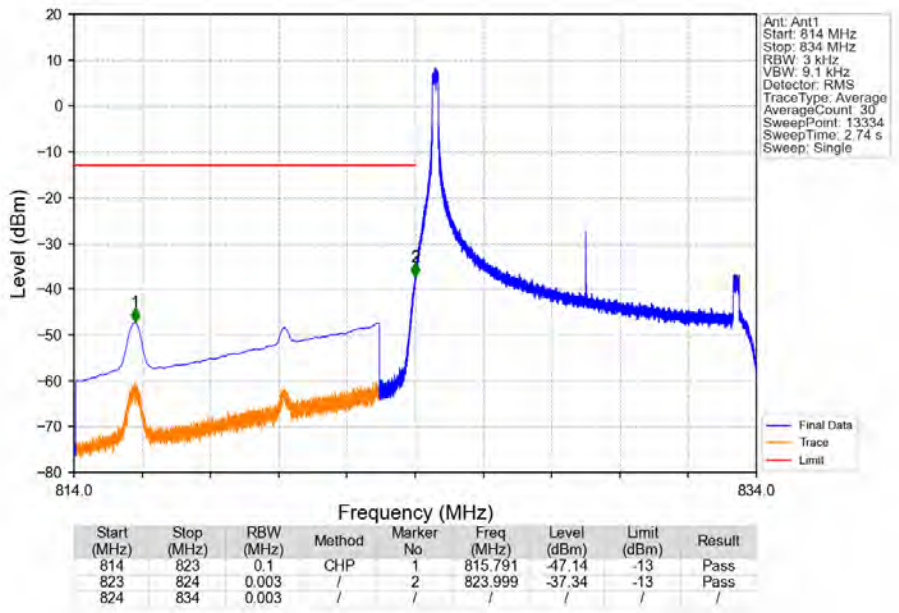
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV



Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV

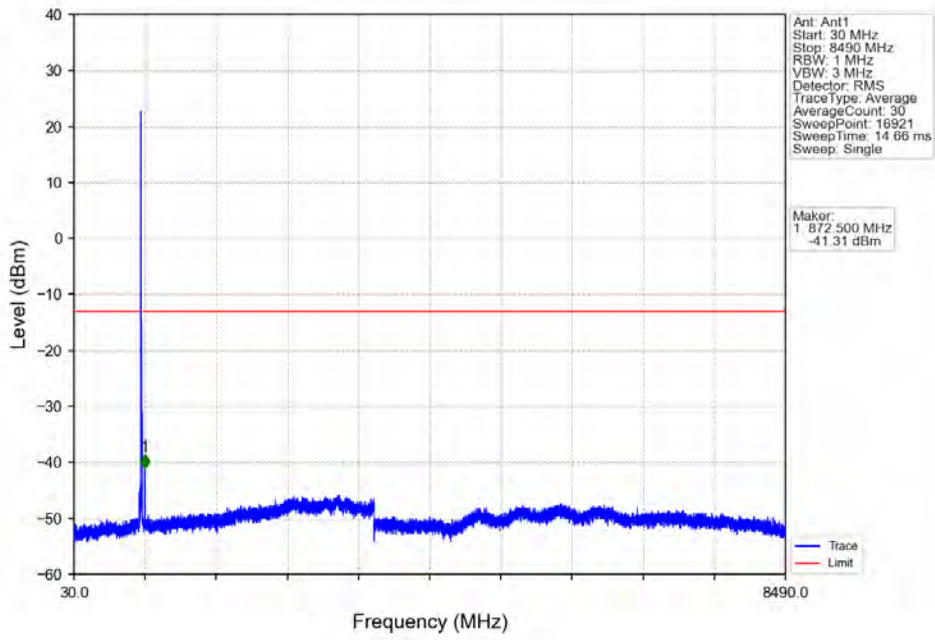


Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV

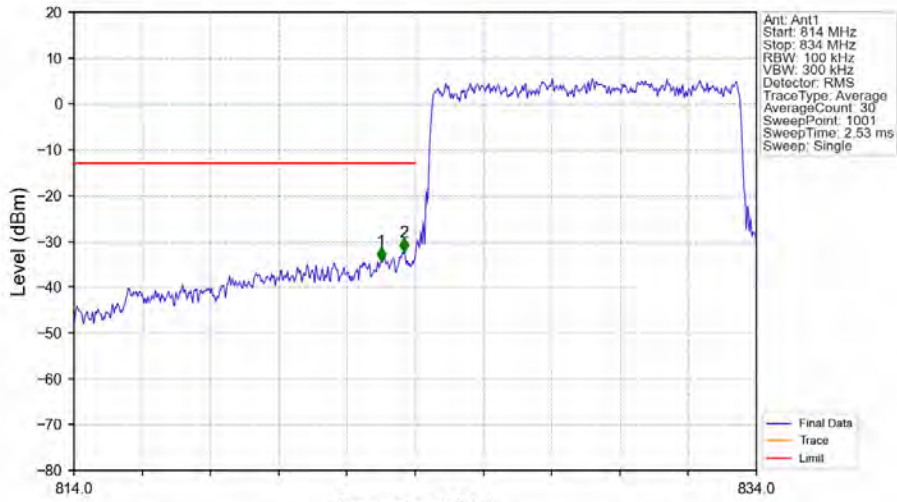




Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV

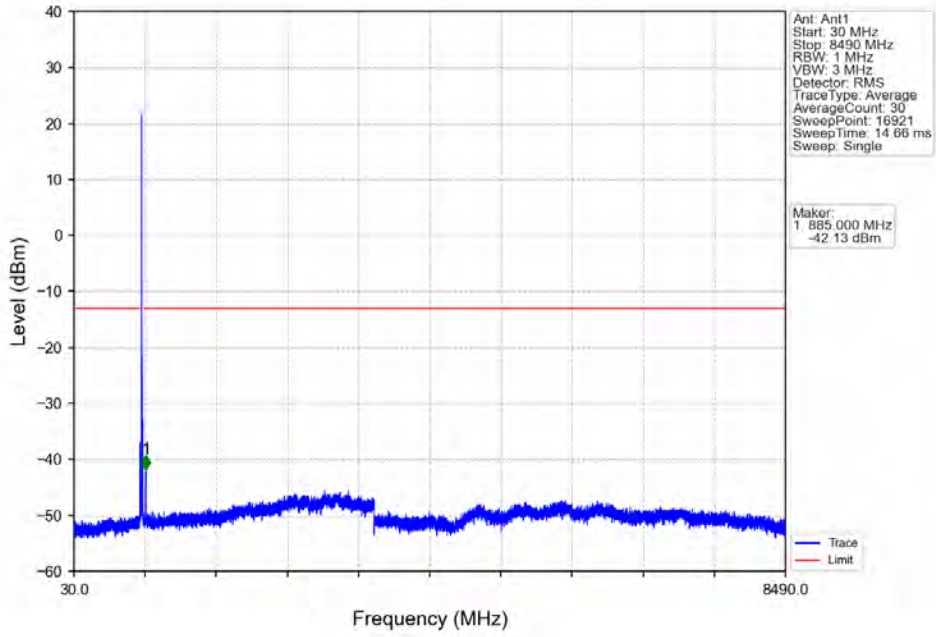


Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV

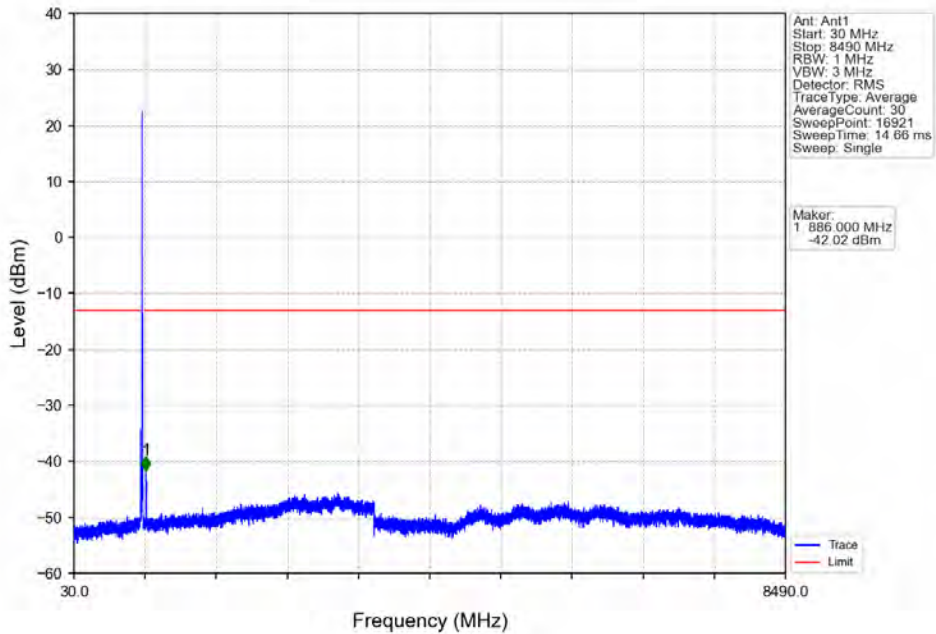


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	823.000	-34.31	-13	Pass
823	824	0.102	/	2	823.680	-32.36	-13	Pass
824	834	0.102	/	/	/	/	/	/

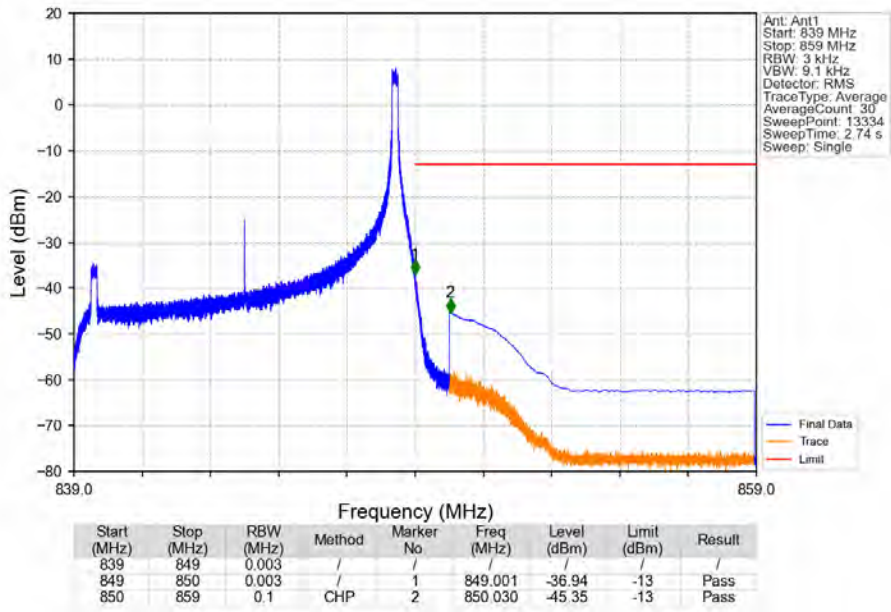
Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



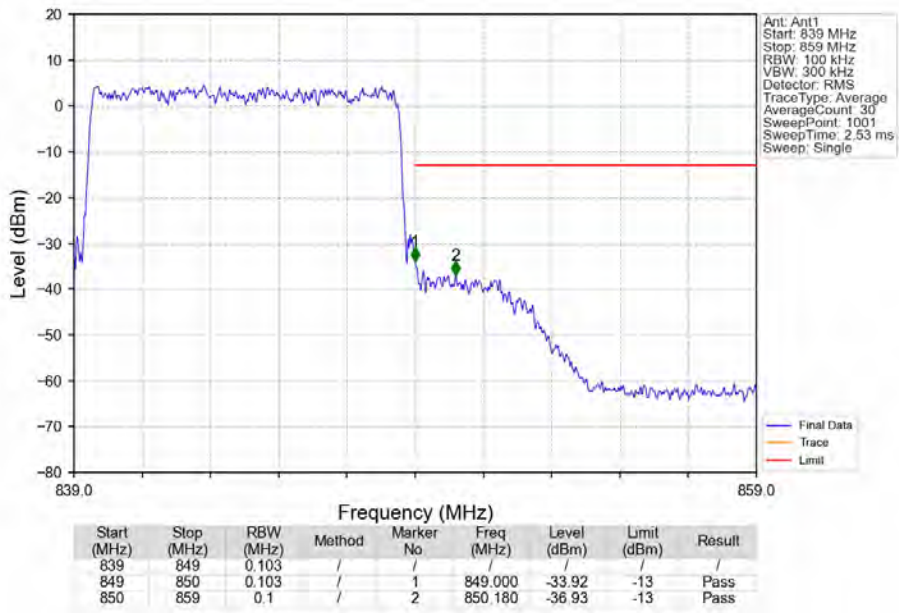
Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_49\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_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)
5	1.4	824.7	848.3	0.1589	0.0180	ppm	1M12G7D	22H	22.01
5	1.4	824.7	848.3	0.1306	0.0124	ppm	1M11W7D	22H	21.16
5	3	825.5	847.5	0.1667	0.0140	ppm	2M73G7D	22H	22.22
5	3	825.5	847.5	0.1442	0.0158	ppm	2M73W7D	22H	21.59
5	5	826.5	846.5	0.1578	0.0134	ppm	4M57G7D	22H	21.98
5	5	826.5	846.5	0.1309	0.0132	ppm	4M59W7D	22H	21.17
5	10	829	844	0.1648	0.0129	ppm	9M08G7D	22H	22.17
5	10	829	844	0.1380	0.0118	ppm	9M08W7D	22H	21.40

## 7.2 Form731\_ERP

### 7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	1.4	824.7	848.3	0.0439	0.0180	ppm	1M12G7D	22H	16.42
5	1.4	824.7	848.3	0.0361	0.0124	ppm	1M11W7D	22H	15.57
5	3	825.5	847.5	0.0460	0.0140	ppm	2M73G7D	22H	16.63
5	3	825.5	847.5	0.0398	0.0158	ppm	2M73W7D	22H	16.00
5	5	826.5	846.5	0.0436	0.0134	ppm	4M57G7D	22H	16.39
5	5	826.5	846.5	0.0361	0.0132	ppm	4M59W7D	22H	15.58
5	10	829	844	0.0455	0.0129	ppm	9M08G7D	22H	16.58
5	10	829	844	0.0381	0.0118	ppm	9M08W7D	22H	15.81