

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B5\_1.4MHz\_ERP

### 1.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	824.7	1	0	22.98	-2.58	18.25	<=38.45	Pass		
			2	23.08	-2.58	18.35	<=38.45	Pass		
			5	22.94	-2.58	18.21	<=38.45	Pass		
		3	0	23.03	-2.58	18.30	<=38.45	Pass		
			2	23.08	-2.58	18.35	<=38.45	Pass		
			3	23.06	-2.58	18.33	<=38.45	Pass		
		6	0	22.01	-2.58	17.28	<=38.45	Pass		
		836.5	1	0	22.67	-2.58	17.94	<=38.45	Pass	
				2	22.47	-2.58	17.74	<=38.45	Pass	
	5			22.37	-2.58	17.64	<=38.45	Pass		
	3		0	22.50	-2.58	17.77	<=38.45	Pass		
			2	22.50	-2.58	17.77	<=38.45	Pass		
			3	22.48	-2.58	17.75	<=38.45	Pass		
	6		0	21.43	-2.58	16.70	<=38.45	Pass		
	848.3		1	0	22.65	-2.58	17.92	<=38.45	Pass	
				2	22.81	-2.58	18.08	<=38.45	Pass	
		5		22.65	-2.58	17.92	<=38.45	Pass		
		3	0	22.62	-2.58	17.89	<=38.45	Pass		
			2	22.30	-2.58	17.57	<=38.45	Pass		
			3	22.31	-2.58	17.58	<=38.45	Pass		
		6	0	21.21	-2.58	16.48	<=38.45	Pass		
		16QAM	824.7	1	0	21.97	-2.58	17.24	<=38.45	Pass
					2	22.06	-2.58	17.33	<=38.45	Pass
	5				21.99	-2.58	17.26	<=38.45	Pass	
3	0			22.12	-2.58	17.39	<=38.45	Pass		
	2			22.12	-2.58	17.39	<=38.45	Pass		
	3			22.11	-2.58	17.38	<=38.45	Pass		
6	0			20.97	-2.58	16.24	<=38.45	Pass		
836.5	1			0	21.55	-2.58	16.82	<=38.45	Pass	
				2	21.67	-2.58	16.94	<=38.45	Pass	
			5	21.53	-2.58	16.80	<=38.45	Pass		
	3		0	21.49	-2.58	16.76	<=38.45	Pass		
			2	21.50	-2.58	16.77	<=38.45	Pass		
			3	21.51	-2.58	16.78	<=38.45	Pass		
	6		0	20.46	-2.58	15.73	<=38.45	Pass		
	848.3		1	0	21.17	-2.58	16.44	<=38.45	Pass	
				2	21.29	-2.58	16.56	<=38.45	Pass	
5				21.27	-2.58	16.54	<=38.45	Pass		
3			0	21.39	-2.58	16.66	<=38.45	Pass		
			2	21.37	-2.58	16.64	<=38.45	Pass		
			3	21.37	-2.58	16.64	<=38.45	Pass		
6			0	20.18	-2.58	15.45	<=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	23.01	-2.58	18.28	<=38.45	Pass		
			7	23.13	-2.58	18.40	<=38.45	Pass		
			14	22.74	-2.58	18.01	<=38.45	Pass		
		8	0	21.73	-2.58	17.00	<=38.45	Pass		
			4	21.61	-2.58	16.88	<=38.45	Pass		
			7	21.46	-2.58	16.73	<=38.45	Pass		
		15	0	21.55	-2.58	16.82	<=38.45	Pass		
		836.5	1	0	22.34	-2.58	17.61	<=38.45	Pass	
				7	22.53	-2.58	17.80	<=38.45	Pass	
	14			22.33	-2.58	17.60	<=38.45	Pass		
	8		0	21.38	-2.58	16.65	<=38.45	Pass		
			4	21.44	-2.58	16.71	<=38.45	Pass		
			7	21.37	-2.58	16.64	<=38.45	Pass		
	15		0	21.42	-2.58	16.69	<=38.45	Pass		
	847.5		1	0	22.15	-2.58	17.42	<=38.45	Pass	
				7	22.28	-2.58	17.55	<=38.45	Pass	
		14		22.13	-2.58	17.40	<=38.45	Pass		
		8	0	21.18	-2.58	16.45	<=38.45	Pass		
			4	21.24	-2.58	16.51	<=38.45	Pass		
			7	21.18	-2.58	16.45	<=38.45	Pass		
		15	0	21.23	-2.58	16.50	<=38.45	Pass		
		16QAM	825.5	1	0	21.56	-2.58	16.83	<=38.45	Pass
					7	21.67	-2.58	16.94	<=38.45	Pass
	14				21.48	-2.58	16.75	<=38.45	Pass	
8	0			20.55	-2.58	15.82	<=38.45	Pass		
	4			20.56	-2.58	15.83	<=38.45	Pass		
	7			20.51	-2.58	15.78	<=38.45	Pass		
15	0			20.51	-2.58	15.78	<=38.45	Pass		
836.5	1			0	21.56	-2.58	16.83	<=38.45	Pass	
				7	21.72	-2.58	16.99	<=38.45	Pass	
			14	21.54	-2.58	16.81	<=38.45	Pass		
	8		0	20.40	-2.58	15.67	<=38.45	Pass		
			4	20.45	-2.58	15.72	<=38.45	Pass		
			7	20.36	-2.58	15.63	<=38.45	Pass		
	15		0	20.40	-2.58	15.67	<=38.45	Pass		
	847.5		1	0	21.76	-2.58	17.03	<=38.45	Pass	
				7	21.91	-2.58	17.18	<=38.45	Pass	
14				21.77	-2.58	17.04	<=38.45	Pass		
8			0	20.38	-2.58	15.65	<=38.45	Pass		
			4	20.45	-2.58	15.72	<=38.45	Pass		
			7	20.40	-2.58	15.67	<=38.45	Pass		
15			0	20.32	-2.58	15.59	<=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								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	22.33	-2.58	17.60	<=38.45	Pass
			13	22.52	-2.58	17.79	<=38.45	Pass
			24	22.38	-2.58	17.65	<=38.45	Pass

	836.5	12	0	21.43	-2.58	16.70	<=38.45	Pass		
			6	21.49	-2.58	16.76	<=38.45	Pass		
			13	21.49	-2.58	16.76	<=38.45	Pass		
		25	0	21.45	-2.58	16.72	<=38.45	Pass		
			1	0	22.28	-2.58	17.55	<=38.45	Pass	
				13	22.41	-2.58	17.68	<=38.45	Pass	
		24		22.25	-2.58	17.52	<=38.45	Pass		
		12	0	21.35	-2.58	16.62	<=38.45	Pass		
			6	21.37	-2.58	16.64	<=38.45	Pass		
			13	21.38	-2.58	16.65	<=38.45	Pass		
		25	0	21.42	-2.58	16.69	<=38.45	Pass		
			846.5	1	0	22.08	-2.58	17.35	<=38.45	Pass
	13				22.23	-2.58	17.50	<=38.45	Pass	
	24	22.11			-2.58	17.38	<=38.45	Pass		
	12	0	21.22	-2.58	16.49	<=38.45	Pass			
		6	21.23	-2.58	16.50	<=38.45	Pass			
		13	21.14	-2.58	16.41	<=38.45	Pass			
	25	0	21.14	-2.58	16.41	<=38.45	Pass			
		16QAM	826.5	1	0	21.43	-2.58	16.70	<=38.45	Pass
					13	21.64	-2.58	16.91	<=38.45	Pass
	24				21.50	-2.58	16.77	<=38.45	Pass	
	12			0	20.35	-2.58	15.62	<=38.45	Pass	
				6	20.47	-2.58	15.74	<=38.45	Pass	
				13	20.44	-2.58	15.71	<=38.45	Pass	
25	0		20.48	-2.58	15.75	<=38.45	Pass			
	836.5		1	0	21.62	-2.58	16.89	<=38.45	Pass	
				13	21.75	-2.58	17.02	<=38.45	Pass	
24				21.52	-2.58	16.79	<=38.45	Pass		
12	0		20.42	-2.58	15.69	<=38.45	Pass			
	6		20.42	-2.58	15.69	<=38.45	Pass			
	13	20.42	-2.58	15.69	<=38.45	Pass				
25	0	20.41	-2.58	15.68	<=38.45	Pass				
	846.5	1	0	20.99	-2.58	16.26	<=38.45	Pass		
			13	21.10	-2.58	16.37	<=38.45	Pass		
24			20.97	-2.58	16.24	<=38.45	Pass			
12	0	20.27	-2.58	15.54	<=38.45	Pass				
	6	20.28	-2.58	15.55	<=38.45	Pass				
	13	20.13	-2.58	15.40	<=38.45	Pass				
25	0	20.23	-2.58	15.50	<=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	22.42	-2.58	17.69	<=38.45	Pass	
			25	22.58	-2.58	17.85	<=38.45	Pass	
			49	22.40	-2.58	17.67	<=38.45	Pass	
		25	0	21.45	-2.58	16.72	<=38.45	Pass	
			13	21.46	-2.58	16.73	<=38.45	Pass	
			25	21.43	-2.58	16.70	<=38.45	Pass	
	50	0	21.45	-2.58	16.72	<=38.45	Pass		
		836.5	1	0	22.32	-2.58	17.59	<=38.45	Pass
				25	22.46	-2.58	17.73	<=38.45	Pass

		25	49	22.22	-2.58	17.49	<=38.45	Pass	
			0	21.45	-2.58	16.72	<=38.45	Pass	
			13	21.39	-2.58	16.66	<=38.45	Pass	
			25	21.36	-2.58	16.63	<=38.45	Pass	
			50	21.41	-2.58	16.68	<=38.45	Pass	
	844	1	0	22.25	-2.58	17.52	<=38.45	Pass	
			25	22.23	-2.58	17.50	<=38.45	Pass	
			49	22.14	-2.58	17.41	<=38.45	Pass	
			0	21.28	-2.58	16.55	<=38.45	Pass	
			13	21.20	-2.58	16.47	<=38.45	Pass	
	25	25	21.10	-2.58	16.37	<=38.45	Pass		
		50	21.20	-2.58	16.47	<=38.45	Pass		
		0	21.47	-2.58	16.74	<=38.45	Pass		
	16QAM	829	1	25	21.60	-2.58	16.87	<=38.45	Pass
				49	21.45	-2.58	16.72	<=38.45	Pass
0				20.57	-2.58	15.84	<=38.45	Pass	
25			13	20.57	-2.58	15.84	<=38.45	Pass	
			25	20.54	-2.58	15.81	<=38.45	Pass	
		50	20.50	-2.58	15.77	<=38.45	Pass		
836.5		1	0	21.57	-2.58	16.84	<=38.45	Pass	
			25	21.68	-2.58	16.95	<=38.45	Pass	
			49	21.47	-2.58	16.74	<=38.45	Pass	
		25	0	20.50	-2.58	15.77	<=38.45	Pass	
			13	20.46	-2.58	15.73	<=38.45	Pass	
25			20.41	-2.58	15.68	<=38.45	Pass		
50		20.42	-2.58	15.69	<=38.45	Pass			
844		1	0	21.91	-2.58	17.18	<=38.45	Pass	
			25	21.90	-2.58	17.17	<=38.45	Pass	
	49		21.78	-2.58	17.05	<=38.45	Pass		
	25	0	20.36	-2.58	15.63	<=38.45	Pass		
		13	20.30	-2.58	15.57	<=38.45	Pass		
25		20.13	-2.58	15.40	<=38.45	Pass			
50	20.25	-2.58	15.52	<=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	-6.351	-0.0077	-2.5 to 2.5	Pass
					3.85	-3.004	-0.0036	-2.5 to 2.5	Pass
					4.43	-11.172	-0.0135	-2.5 to 2.5	Pass
				-30	3.85	-8.197	-0.0099	-2.5 to 2.5	Pass
				-20	3.85	-2.060	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-5.336	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-7.954	-0.0096	-2.5 to 2.5	Pass
				10	3.85	-3.648	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-10.371	-0.0126	-2.5 to 2.5	Pass
				40	3.85	-8.426	-0.0102	-2.5 to 2.5	Pass
	50	3.85	-4.177	-0.0051	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.27	0.973	0.0012	-2.5 to 2.5	Pass

					3.85	-3.490	-0.0042	-2.5 to 2.5	Pass
					4.43	-4.263	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-7.324	-0.0088	-2.5 to 2.5	Pass
				-20	3.85	-1.216	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-0.372	-0.0004	-2.5 to 2.5	Pass
				0	3.85	1.473	0.0018	-2.5 to 2.5	Pass
				10	3.85	-0.615	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-7.253	-0.0087	-2.5 to 2.5	Pass
				40	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
	50	3.85	-11.845	-0.0142	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.27	-0.272	-0.0003	-2.5 to 2.5	Pass
					3.85	1.602	0.0019	-2.5 to 2.5	Pass
					4.43	-3.033	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-2.632	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-6.266	-0.0074	-2.5 to 2.5	Pass
				-10	3.85	-1.516	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-1.202	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-7.567	-0.0089	-2.5 to 2.5	Pass
30				3.85	-5.779	-0.0068	-2.5 to 2.5	Pass	
40	3.85	-9.484	-0.0112	-2.5 to 2.5	Pass				
50	3.85	-2.103	-0.0025	-2.5 to 2.5	Pass				
16QAM	824.7	6	0	20	3.27	-3.862	-0.0047	-2.5 to 2.5	Pass
					3.85	-2.918	-0.0035	-2.5 to 2.5	Pass
					4.43	-8.941	-0.0108	-2.5 to 2.5	Pass
				-30	3.85	-5.994	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-5.436	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-5.164	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-6.781	-0.0082	-2.5 to 2.5	Pass
				10	3.85	-7.710	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-7.038	-0.0085	-2.5 to 2.5	Pass
	40	3.85	-6.351	-0.0077	-2.5 to 2.5	Pass			
	50	3.85	-3.948	-0.0048	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.27	-4.864	-0.0058	-2.5 to 2.5	Pass
					3.85	-9.742	-0.0116	-2.5 to 2.5	Pass
					4.43	-7.610	-0.0091	-2.5 to 2.5	Pass
				-30	3.85	-8.640	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-11.802	-0.0141	-2.5 to 2.5	Pass
				-10	3.85	-10.800	-0.0129	-2.5 to 2.5	Pass
				0	3.85	-5.908	-0.0071	-2.5 to 2.5	Pass
10				3.85	-8.855	-0.0106	-2.5 to 2.5	Pass	
30				3.85	-8.354	-0.0100	-2.5 to 2.5	Pass	
40	3.85	-9.484	-0.0113	-2.5 to 2.5	Pass				
50	3.85	-10.285	-0.0123	-2.5 to 2.5	Pass				
848.3	6	0	20	3.27	-4.935	-0.0058	-2.5 to 2.5	Pass	
				3.85	-11.430	-0.0135	-2.5 to 2.5	Pass	
				4.43	-9.327	-0.0110	-2.5 to 2.5	Pass	
			-30	3.85	-1.087	-0.0013	-2.5 to 2.5	Pass	
			-20	3.85	-3.433	-0.0040	-2.5 to 2.5	Pass	
			-10	3.85	-6.008	-0.0071	-2.5 to 2.5	Pass	
			0	3.85	-10.300	-0.0121	-2.5 to 2.5	Pass	
			10	3.85	-4.191	-0.0049	-2.5 to 2.5	Pass	
			30	3.85	-5.779	-0.0068	-2.5 to 2.5	Pass	
40	3.85	-6.666	-0.0079	-2.5 to 2.5	Pass				
50	3.85	-1.245	-0.0015	-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	-5.021	-0.0061	-2.5 to 2.5	Pass
					3.85	-0.186	-0.0002	-2.5 to 2.5	Pass
					4.43	-7.839	-0.0095	-2.5 to 2.5	Pass
				-30	3.85	-4.792	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-5.193	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-5.765	-0.0070	-2.5 to 2.5	Pass
				0	3.85	-9.069	-0.0110	-2.5 to 2.5	Pass
				10	3.85	-2.389	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-10.657	-0.0129	-2.5 to 2.5	Pass
	40	3.85	-3.047	-0.0037	-2.5 to 2.5	Pass			
	50	3.85	-4.792	-0.0058	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-6.495	-0.0078	-2.5 to 2.5	Pass
					3.85	-6.466	-0.0077	-2.5 to 2.5	Pass
					4.43	-2.675	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-5.693	-0.0068	-2.5 to 2.5	Pass
				-20	3.85	-7.896	-0.0094	-2.5 to 2.5	Pass
				-10	3.85	-4.392	-0.0053	-2.5 to 2.5	Pass
				0	3.85	-7.467	-0.0089	-2.5 to 2.5	Pass
				10	3.85	0.329	0.0004	-2.5 to 2.5	Pass
				30	3.85	-1.831	-0.0022	-2.5 to 2.5	Pass
	40	3.85	-1.245	-0.0015	-2.5 to 2.5	Pass			
	50	3.85	-4.091	-0.0049	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-9.756	-0.0115	-2.5 to 2.5	Pass
					3.85	-9.670	-0.0114	-2.5 to 2.5	Pass
					4.43	-14.162	-0.0167	-2.5 to 2.5	Pass
				-30	3.85	-10.057	-0.0119	-2.5 to 2.5	Pass
				-20	3.85	-10.972	-0.0129	-2.5 to 2.5	Pass
-10				3.85	-7.181	-0.0085	-2.5 to 2.5	Pass	
0				3.85	-14.234	-0.0168	-2.5 to 2.5	Pass	
10				3.85	-8.283	-0.0098	-2.5 to 2.5	Pass	
30				3.85	-7.567	-0.0089	-2.5 to 2.5	Pass	
40	3.85	-10.772	-0.0127	-2.5 to 2.5	Pass				
50	3.85	-3.476	-0.0041	-2.5 to 2.5	Pass				
16QAM	825.5	15	0	20	3.27	-6.123	-0.0074	-2.5 to 2.5	Pass
					3.85	-2.933	-0.0036	-2.5 to 2.5	Pass
					4.43	-3.676	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-3.819	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-12.946	-0.0157	-2.5 to 2.5	Pass
				-10	3.85	-6.609	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-2.317	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-2.975	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-1.230	-0.0015	-2.5 to 2.5	Pass
	40	3.85	-2.375	-0.0029	-2.5 to 2.5	Pass			
	50	3.85	-3.777	-0.0046	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-5.908	-0.0071	-2.5 to 2.5	Pass
					3.85	-5.393	-0.0064	-2.5 to 2.5	Pass
					4.43	-7.324	-0.0088	-2.5 to 2.5	Pass
				-30	3.85	-7.696	-0.0092	-2.5 to 2.5	Pass
				-20	3.85	-9.685	-0.0116	-2.5 to 2.5	Pass
				-10	3.85	-11.272	-0.0135	-2.5 to 2.5	Pass
				0	3.85	-10.500	-0.0126	-2.5 to 2.5	Pass
10				3.85	-6.924	-0.0083	-2.5 to 2.5	Pass	
30				3.85	-12.159	-0.0145	-2.5 to 2.5	Pass	
40	3.85	-7.782	-0.0093	-2.5 to 2.5	Pass				

	847.5	15	0	50	3.85	-12.789	-0.0153	-2.5 to 2.5	Pass
				20	3.27	-7.854	-0.0093	-2.5 to 2.5	Pass
					3.85	-9.770	-0.0115	-2.5 to 2.5	Pass
					4.43	-6.251	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	-7.653	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-1.359	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	0.916	0.0011	-2.5 to 2.5	Pass
				0	3.85	1.516	0.0018	-2.5 to 2.5	Pass
				10	3.85	0.558	0.0007	-2.5 to 2.5	Pass
				30	3.85	4.950	0.0058	-2.5 to 2.5	Pass
				40	3.85	2.575	0.0030	-2.5 to 2.5	Pass
				50	3.85	1.545	0.0018	-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	-11.172	-0.0135	-2.5 to 2.5	Pass
					3.85	-3.262	-0.0039	-2.5 to 2.5	Pass
					4.43	-12.417	-0.0150	-2.5 to 2.5	Pass
				-30	3.85	-3.576	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-6.065	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-7.653	-0.0093	-2.5 to 2.5	Pass
				0	3.85	-7.596	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-7.410	-0.0090	-2.5 to 2.5	Pass
				30	3.85	-3.319	-0.0040	-2.5 to 2.5	Pass
				40	3.85	-7.896	-0.0096	-2.5 to 2.5	Pass
				50	3.85	-5.393	-0.0065	-2.5 to 2.5	Pass
				836.5	25	0	20	3.27	-0.558
	3.85	-7.696	-0.0092					-2.5 to 2.5	Pass
	4.43	-9.155	-0.0109					-2.5 to 2.5	Pass
	-30	3.85	-6.094				-0.0073	-2.5 to 2.5	Pass
	-20	3.85	-0.300				-0.0004	-2.5 to 2.5	Pass
	-10	3.85	-7.081				-0.0085	-2.5 to 2.5	Pass
	0	3.85	-5.808				-0.0069	-2.5 to 2.5	Pass
	10	3.85	-6.123				-0.0073	-2.5 to 2.5	Pass
	30	3.85	-7.982				-0.0095	-2.5 to 2.5	Pass
	40	3.85	-6.824				-0.0082	-2.5 to 2.5	Pass
	50	3.85	-6.738				-0.0081	-2.5 to 2.5	Pass
	846.5	25	0				20	3.27	-3.033
				3.85	-7.982	-0.0094		-2.5 to 2.5	Pass
				4.43	-8.554	-0.0101		-2.5 to 2.5	Pass
				-30	3.85	-4.091	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-4.220	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-6.895	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-5.207	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-7.124	-0.0084	-2.5 to 2.5	Pass
30				3.85	-4.134	-0.0049	-2.5 to 2.5	Pass	
40				3.85	-4.005	-0.0047	-2.5 to 2.5	Pass	
50				3.85	-8.612	-0.0102	-2.5 to 2.5	Pass	
16QAM				826.5	25	0	20	3.27	-6.409
	3.85	-2.990	-0.0036					-2.5 to 2.5	Pass
	4.43	-9.756	-0.0118					-2.5 to 2.5	Pass
	-30	3.85	-7.567				-0.0092	-2.5 to 2.5	Pass

				-20	3.85	-6.123	-0.0074	-2.5 to 2.5	Pass			
				-10	3.85	-10.142	-0.0123	-2.5 to 2.5	Pass			
				0	3.85	-3.862	-0.0047	-2.5 to 2.5	Pass			
				10	3.85	-4.263	-0.0052	-2.5 to 2.5	Pass			
				30	3.85	-5.951	-0.0072	-2.5 to 2.5	Pass			
				40	3.85	-9.985	-0.0121	-2.5 to 2.5	Pass			
				50	3.85	-0.772	-0.0009	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.27	-7.639	-0.0091	-2.5 to 2.5	Pass			
					3.85	-4.020	-0.0048	-2.5 to 2.5	Pass			
					4.43	-3.591	-0.0043	-2.5 to 2.5	Pass			
				-30	3.85	-9.356	-0.0112	-2.5 to 2.5	Pass			
				-20	3.85	-3.347	-0.0040	-2.5 to 2.5	Pass			
				-10	3.85	-6.180	-0.0074	-2.5 to 2.5	Pass			
				0	3.85	-4.764	-0.0057	-2.5 to 2.5	Pass			
				10	3.85	-5.922	-0.0071	-2.5 to 2.5	Pass			
				30	3.85	-7.696	-0.0092	-2.5 to 2.5	Pass			
				40	3.85	-3.304	-0.0039	-2.5 to 2.5	Pass			
				50	3.85	-2.761	-0.0033	-2.5 to 2.5	Pass			
				846.5	25	0	20	3.27	-5.593	-0.0066	-2.5 to 2.5	Pass
								3.85	-10.829	-0.0128	-2.5 to 2.5	Pass
	4.43	-8.368	-0.0099					-2.5 to 2.5	Pass			
	-30	3.85	-5.336				-0.0063	-2.5 to 2.5	Pass			
	-20	3.85	-6.609				-0.0078	-2.5 to 2.5	Pass			
	-10	3.85	-5.579				-0.0066	-2.5 to 2.5	Pass			
	0	3.85	-7.968				-0.0094	-2.5 to 2.5	Pass			
	10	3.85	-7.668				-0.0091	-2.5 to 2.5	Pass			
	30	3.85	-5.150				-0.0061	-2.5 to 2.5	Pass			
	40	3.85	-7.553				-0.0089	-2.5 to 2.5	Pass			
	50	3.85	-4.992	-0.0059	-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	-9.756	-0.0118	-2.5 to 2.5	Pass
					3.85	-7.939	-0.0096	-2.5 to 2.5	Pass
					4.43	-6.981	-0.0084	-2.5 to 2.5	Pass
				-30	3.85	-9.742	-0.0118	-2.5 to 2.5	Pass
				-20	3.85	-3.805	-0.0046	-2.5 to 2.5	Pass
				-10	3.85	-5.879	-0.0071	-2.5 to 2.5	Pass
				0	3.85	-5.937	-0.0072	-2.5 to 2.5	Pass
				10	3.85	-2.918	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-7.238	-0.0087	-2.5 to 2.5	Pass
				40	3.85	-3.805	-0.0046	-2.5 to 2.5	Pass
	50	3.85	-7.968	-0.0096	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.27	-2.174	-0.0026	-2.5 to 2.5	Pass
					3.85	-4.277	-0.0051	-2.5 to 2.5	Pass
					4.43	-6.709	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-3.233	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-4.420	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-3.748	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-2.575	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-1.359	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-1.059	-0.0013	-2.5 to 2.5	Pass



	844	50	0	40	3.85	-3.619	-0.0043	-2.5 to 2.5	Pass				
				50	3.85	-7.310	-0.0087	-2.5 to 2.5	Pass				
				20	3.27	-10.872	-0.0129	-2.5 to 2.5	Pass				
					3.85	-7.439	-0.0088	-2.5 to 2.5	Pass				
					4.43	-4.821	-0.0057	-2.5 to 2.5	Pass				
				-30	3.85	-10.929	-0.0129	-2.5 to 2.5	Pass				
				-20	3.85	-6.938	-0.0082	-2.5 to 2.5	Pass				
				-10	3.85	-6.509	-0.0077	-2.5 to 2.5	Pass				
				0	3.85	-11.673	-0.0138	-2.5 to 2.5	Pass				
				10	3.85	-7.896	-0.0094	-2.5 to 2.5	Pass				
				30	3.85	-7.911	-0.0094	-2.5 to 2.5	Pass				
				40	3.85	-7.439	-0.0088	-2.5 to 2.5	Pass				
				50	3.85	-8.698	-0.0103	-2.5 to 2.5	Pass				
				16QAM	829	50	0	20	3.27	-7.911	-0.0095	-2.5 to 2.5	Pass
									3.85	-4.334	-0.0052	-2.5 to 2.5	Pass
									4.43	-8.125	-0.0098	-2.5 to 2.5	Pass
								-30	3.85	-4.334	-0.0052	-2.5 to 2.5	Pass
								-20	3.85	-3.648	-0.0044	-2.5 to 2.5	Pass
								-10	3.85	-7.868	-0.0095	-2.5 to 2.5	Pass
								0	3.85	-8.554	-0.0103	-2.5 to 2.5	Pass
10	3.85	-9.527	-0.0115					-2.5 to 2.5	Pass				
30	3.85	-10.428	-0.0126					-2.5 to 2.5	Pass				
40	3.85	-10.057	-0.0121					-2.5 to 2.5	Pass				
50	3.85	-9.198	-0.0111					-2.5 to 2.5	Pass				
836.5	50	0	20					3.27	-4.592	-0.0055	-2.5 to 2.5	Pass	
								3.85	-7.524	-0.0090	-2.5 to 2.5	Pass	
				4.43	-5.035	-0.0060	-2.5 to 2.5	Pass					
			-30	3.85	-5.665	-0.0068	-2.5 to 2.5	Pass					
			-20	3.85	-5.894	-0.0070	-2.5 to 2.5	Pass					
			-10	3.85	-6.452	-0.0077	-2.5 to 2.5	Pass					
			0	3.85	-8.211	-0.0098	-2.5 to 2.5	Pass					
			10	3.85	-5.279	-0.0063	-2.5 to 2.5	Pass					
			30	3.85	-5.980	-0.0071	-2.5 to 2.5	Pass					
			40	3.85	-6.065	-0.0073	-2.5 to 2.5	Pass					
			50	3.85	-2.632	-0.0031	-2.5 to 2.5	Pass					
			844	50	0	20	3.27	-10.242	-0.0121	-2.5 to 2.5	Pass		
							3.85	-9.913	-0.0117	-2.5 to 2.5	Pass		
4.43	-6.537	-0.0077					-2.5 to 2.5	Pass					
-30	3.85	-6.166				-0.0073	-2.5 to 2.5	Pass					
-20	3.85	-8.626				-0.0102	-2.5 to 2.5	Pass					
-10	3.85	-7.925				-0.0094	-2.5 to 2.5	Pass					
0	3.85	-7.639				-0.0091	-2.5 to 2.5	Pass					
10	3.85	-5.293				-0.0063	-2.5 to 2.5	Pass					
30	3.85	-8.740				-0.0104	-2.5 to 2.5	Pass					
40	3.85	-6.337				-0.0075	-2.5 to 2.5	Pass					
50	3.85	-8.712	-0.0103	-2.5 to 2.5	Pass								

### 3. Modulation Characteristics

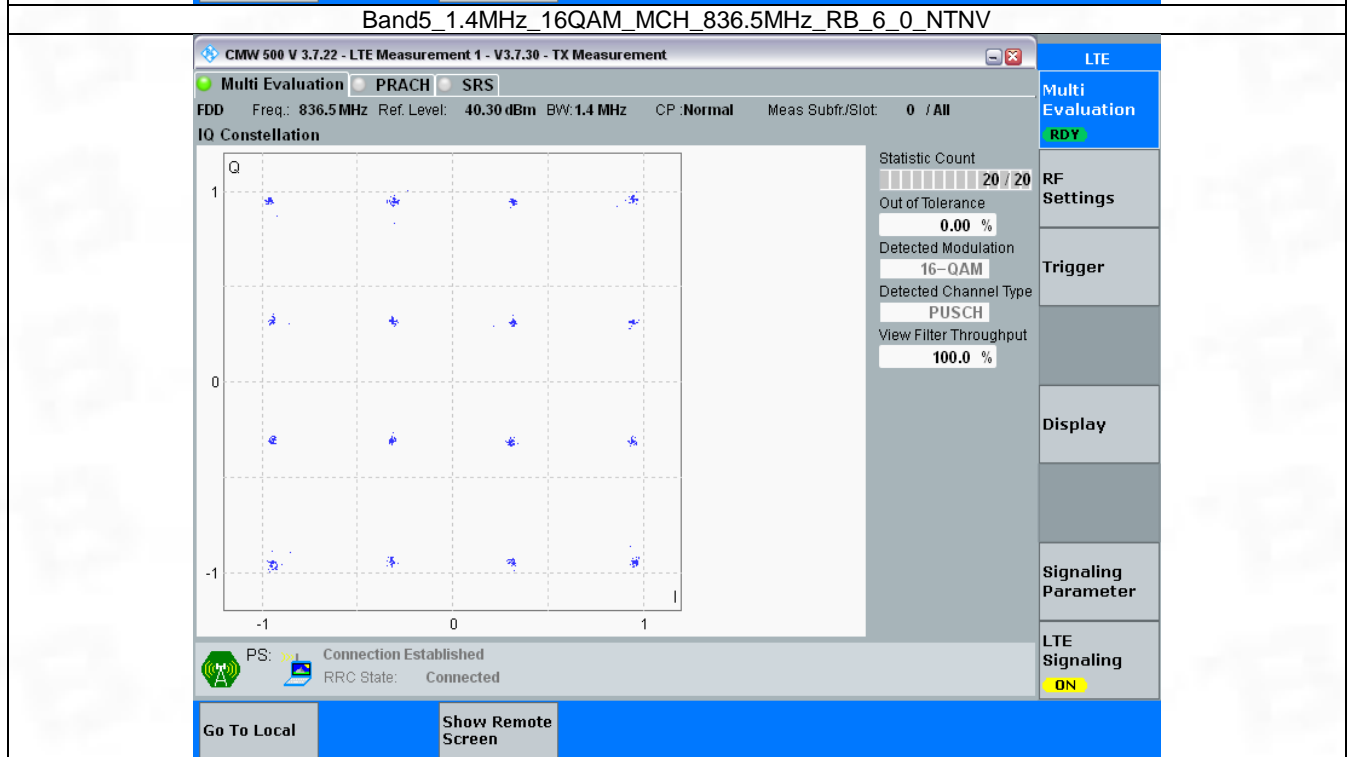
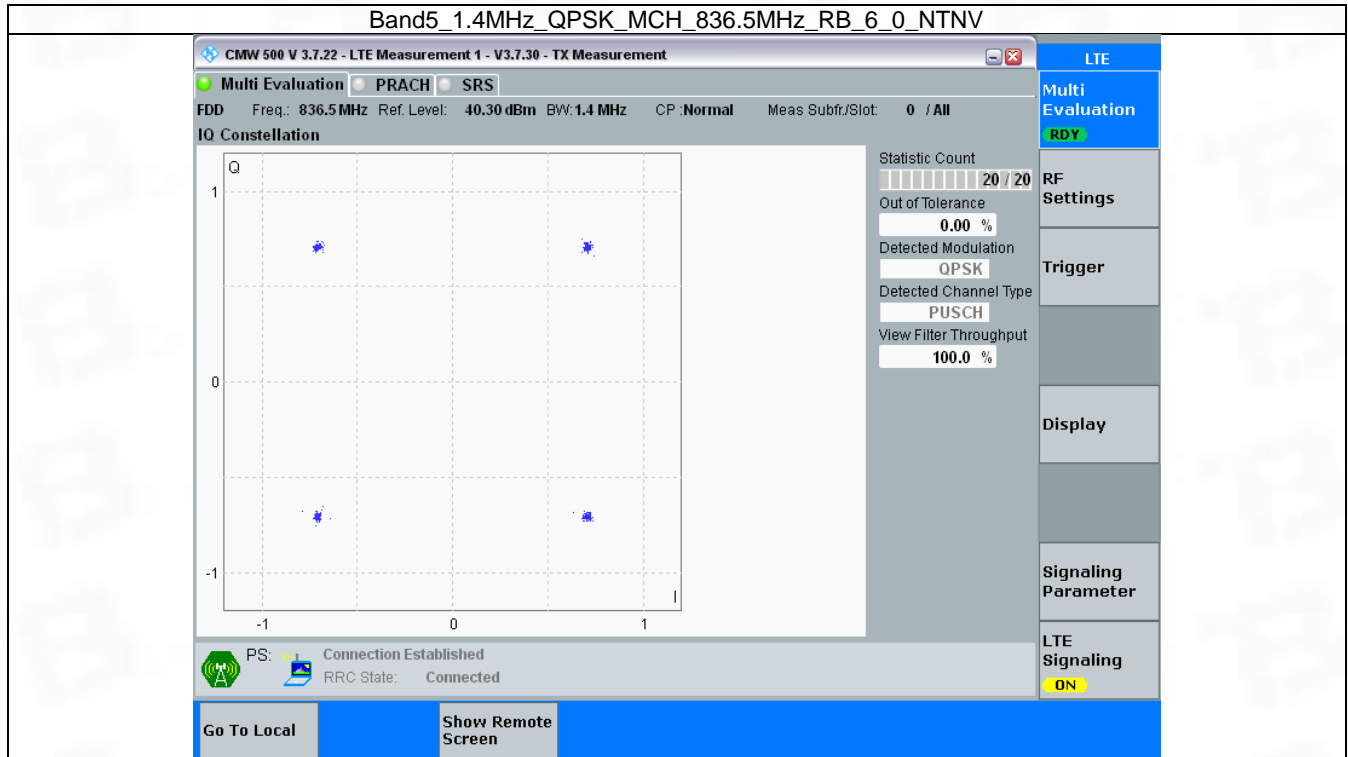
#### 3.1 B5\_1.4MHz

##### 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

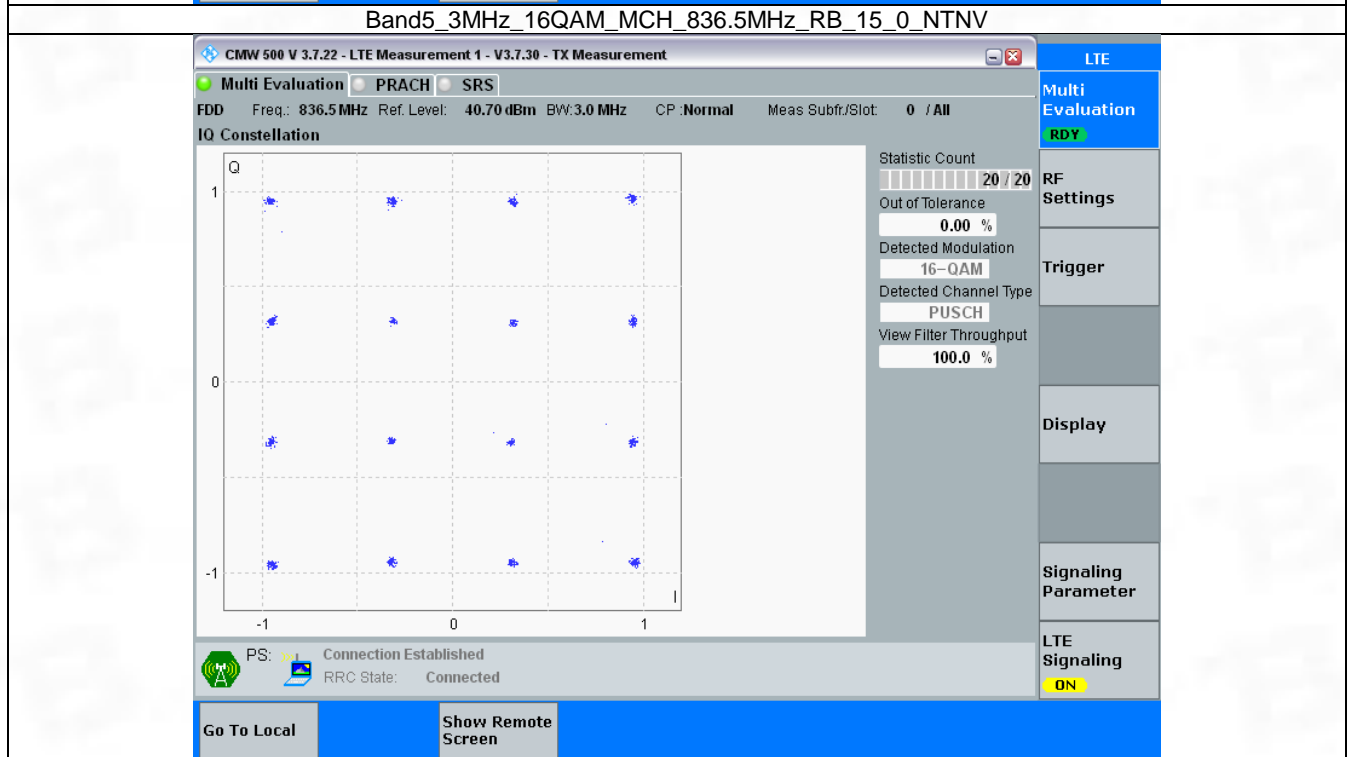
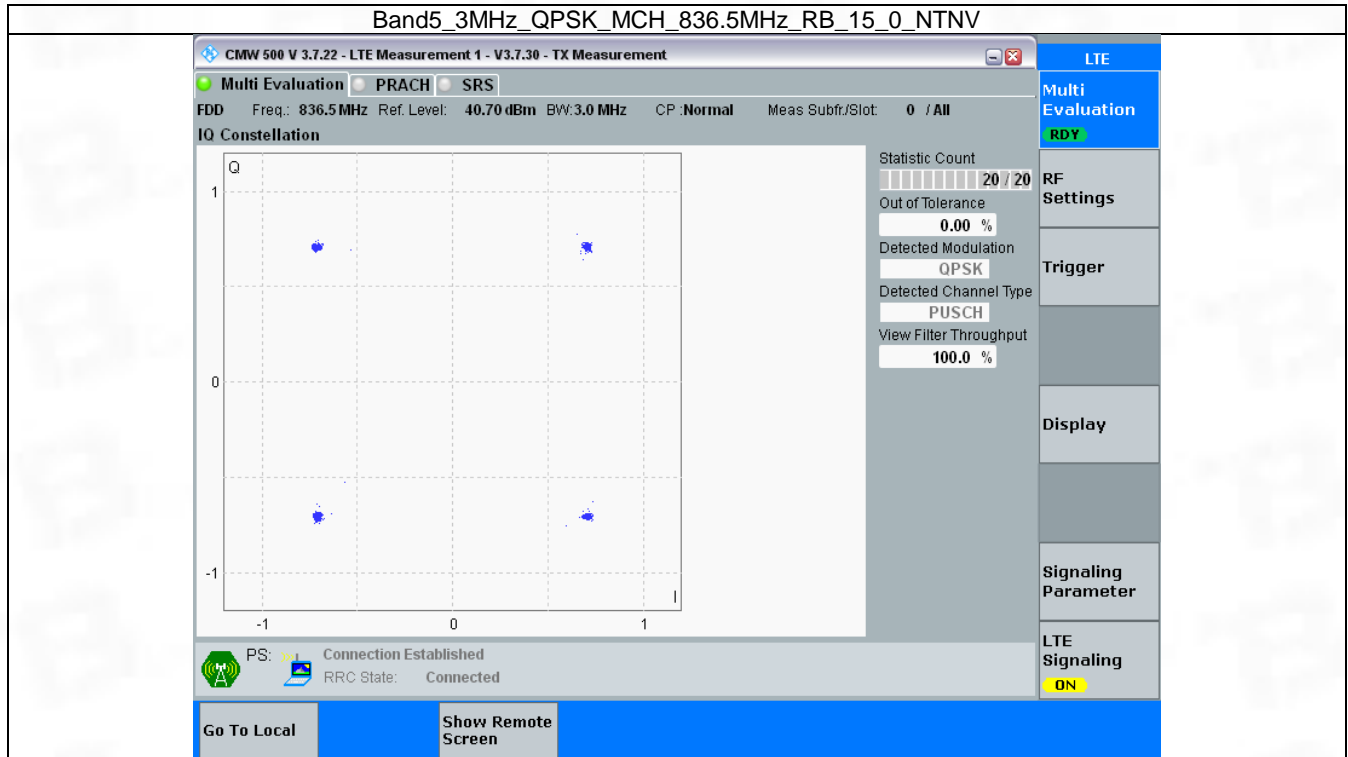


### 3.2 B5\_3MHz

#### 3.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTN						
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

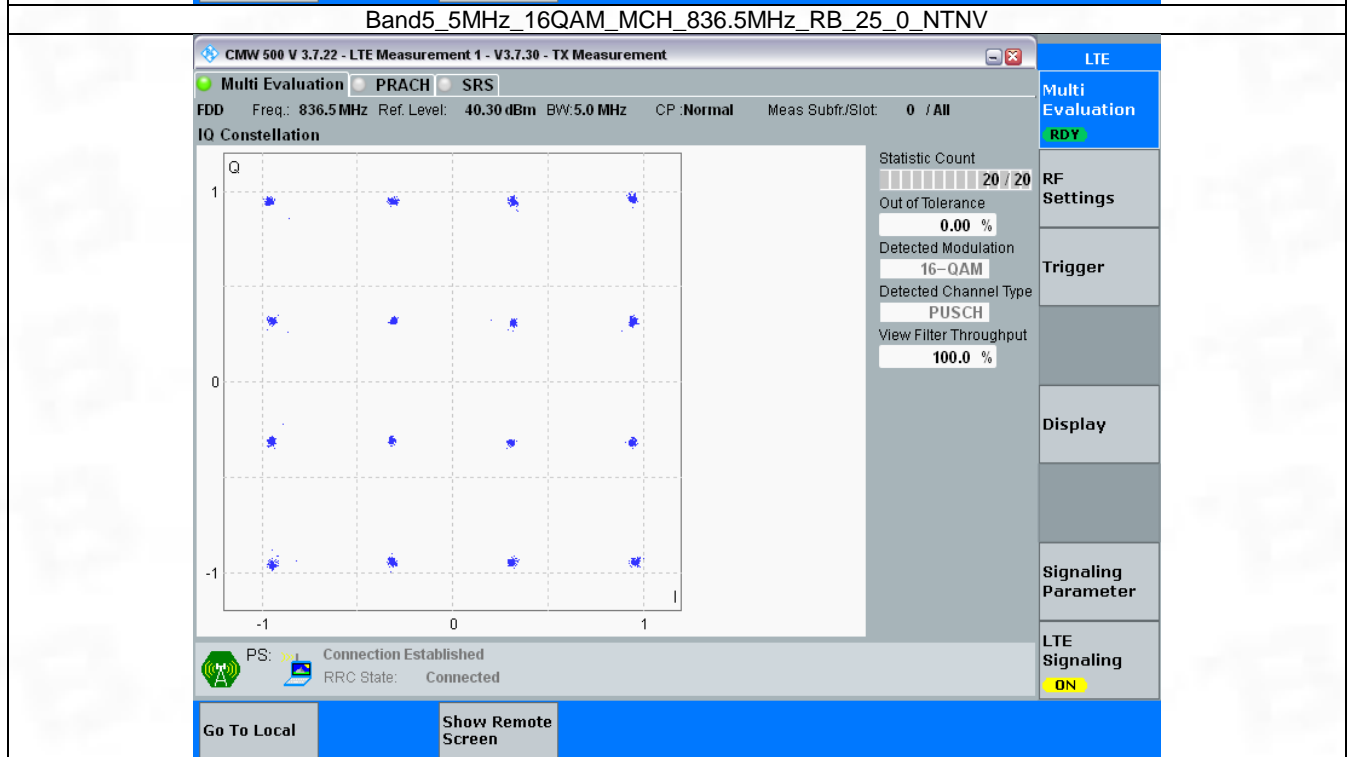
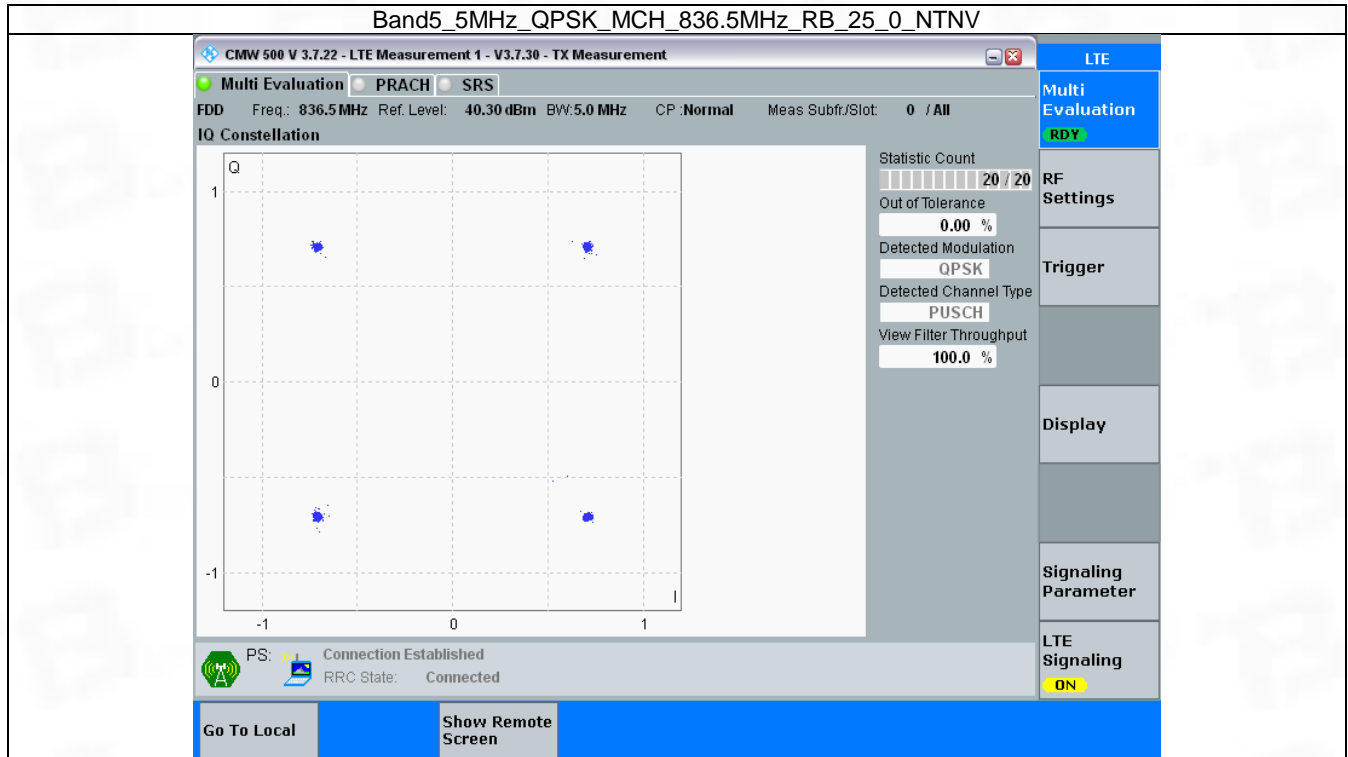


### 3.3 B5\_5MHz

#### 3.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN						
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



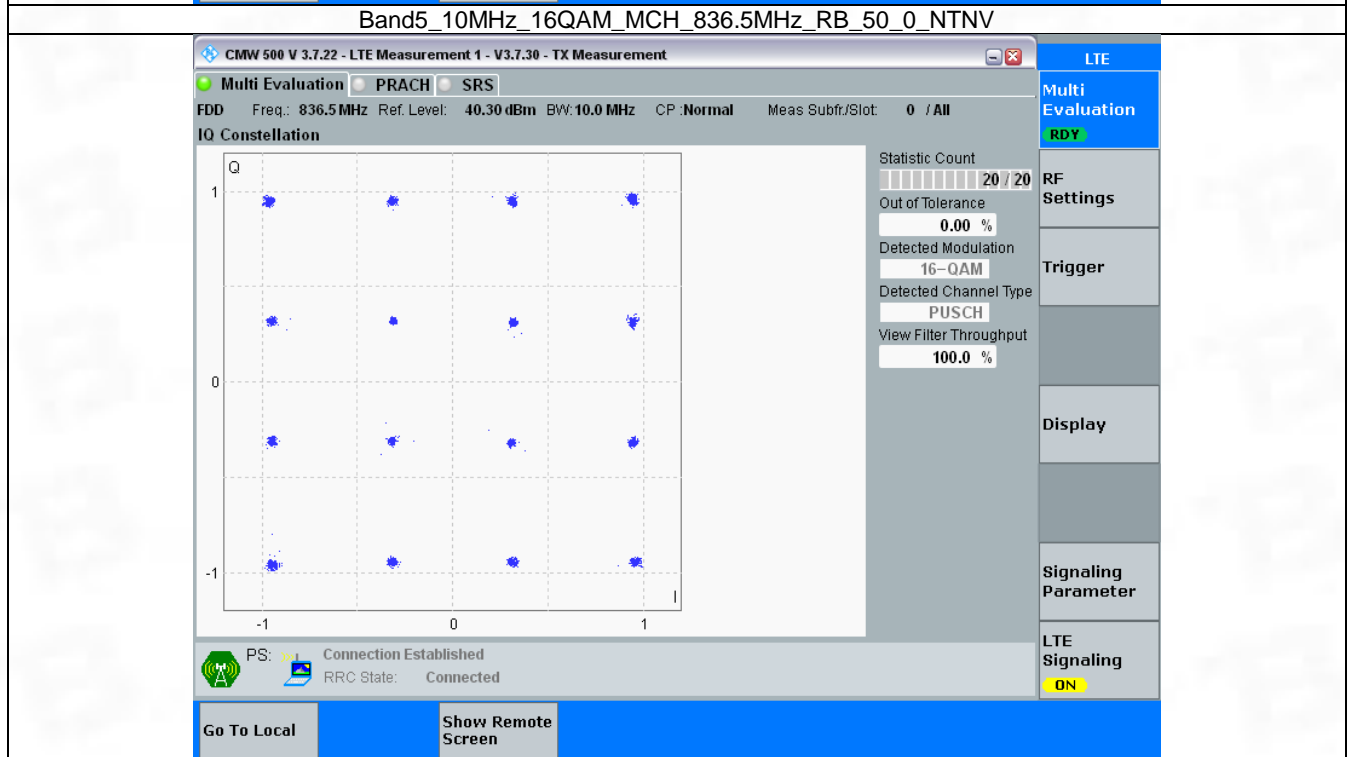
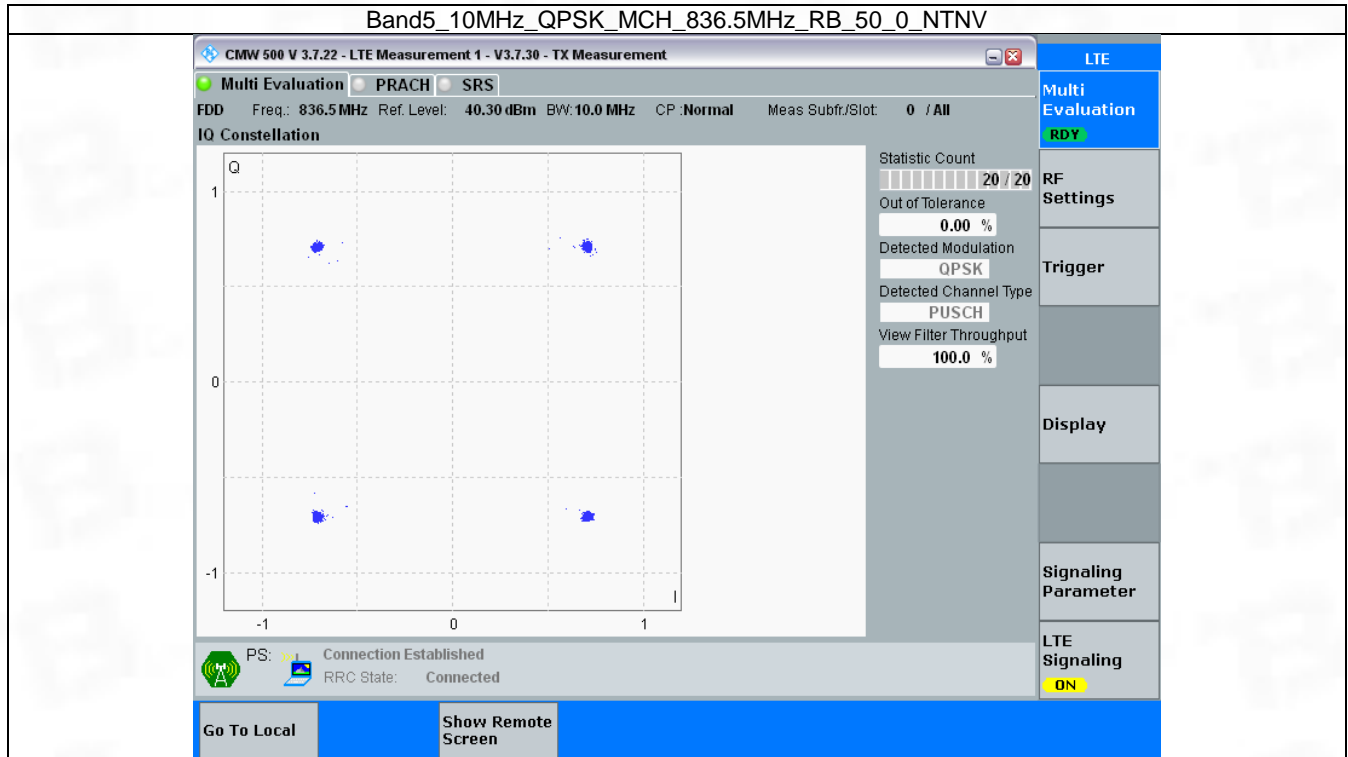
### 3.4 B5\_10MHz

#### 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



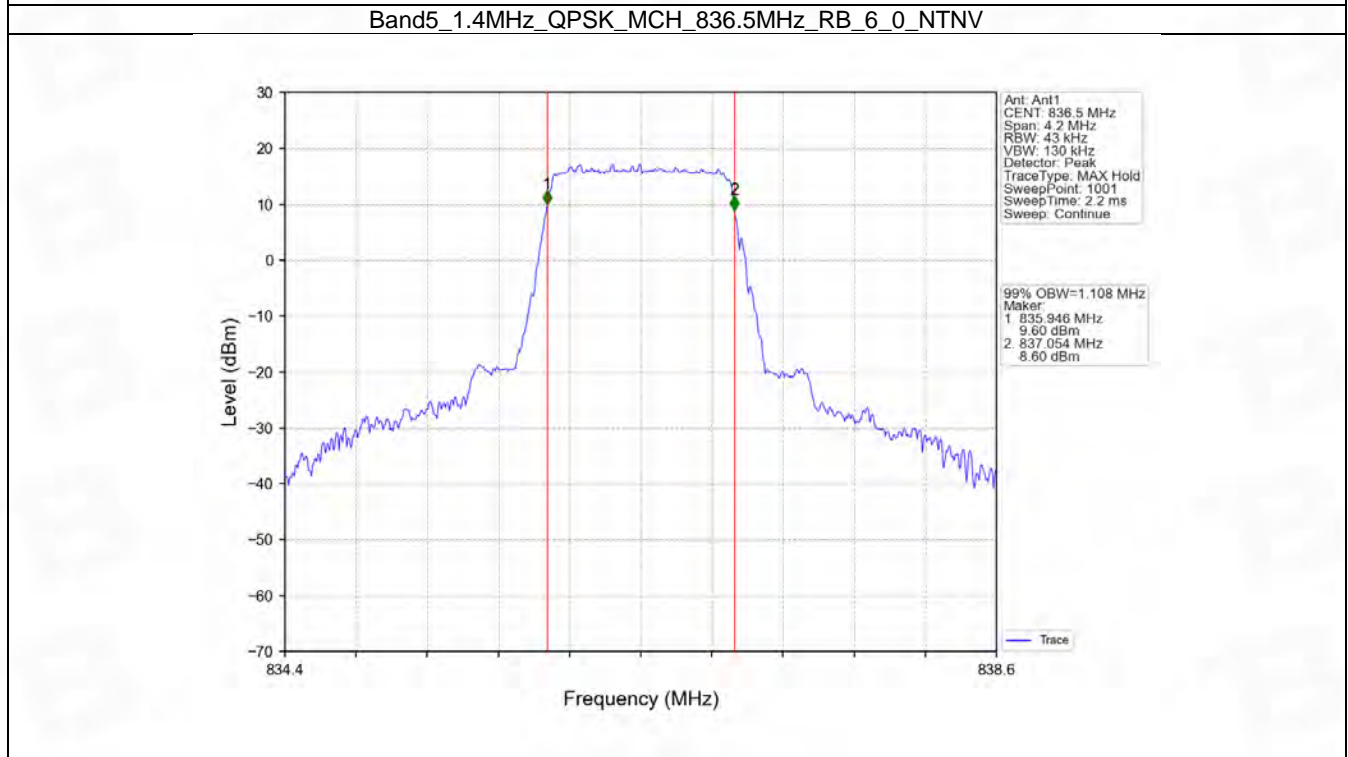
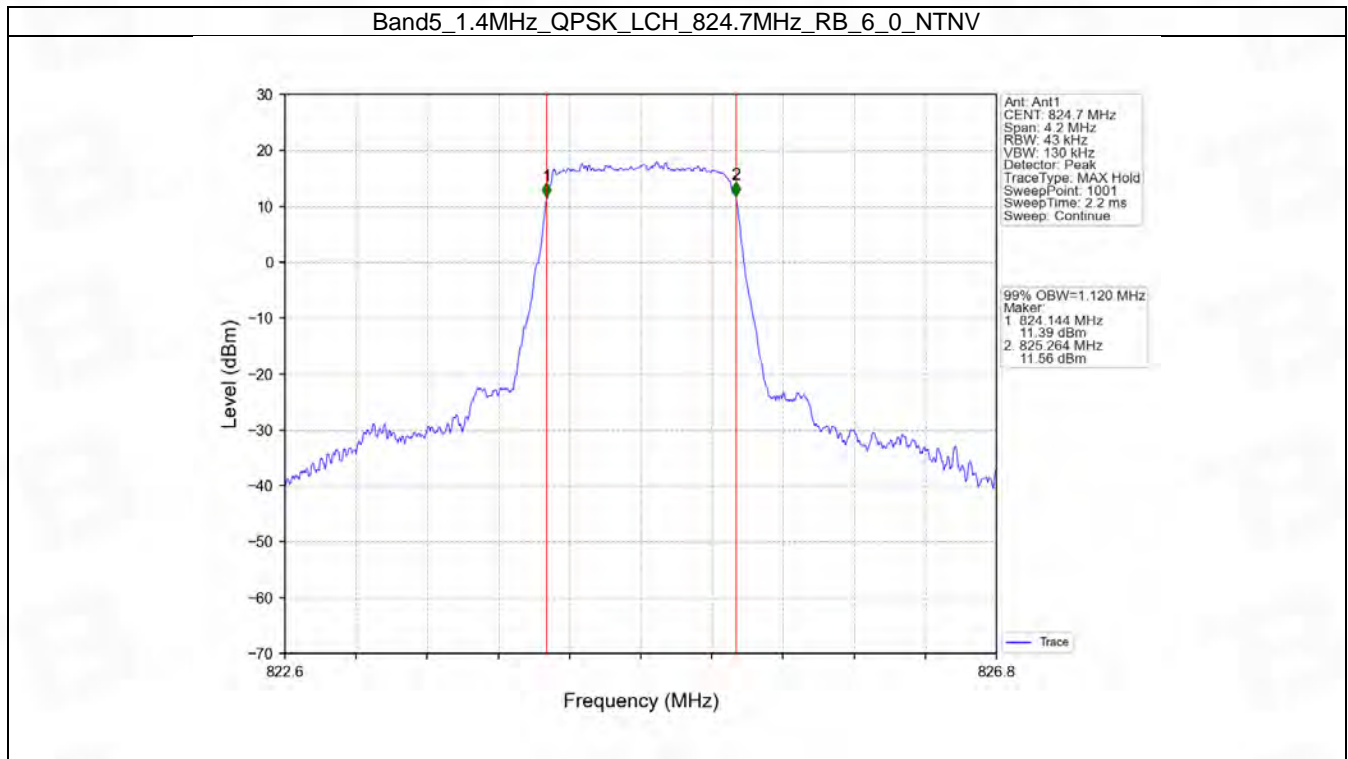
## 4. 99% & 26dB Bandwidth

### 4.1 Band5\_OBW

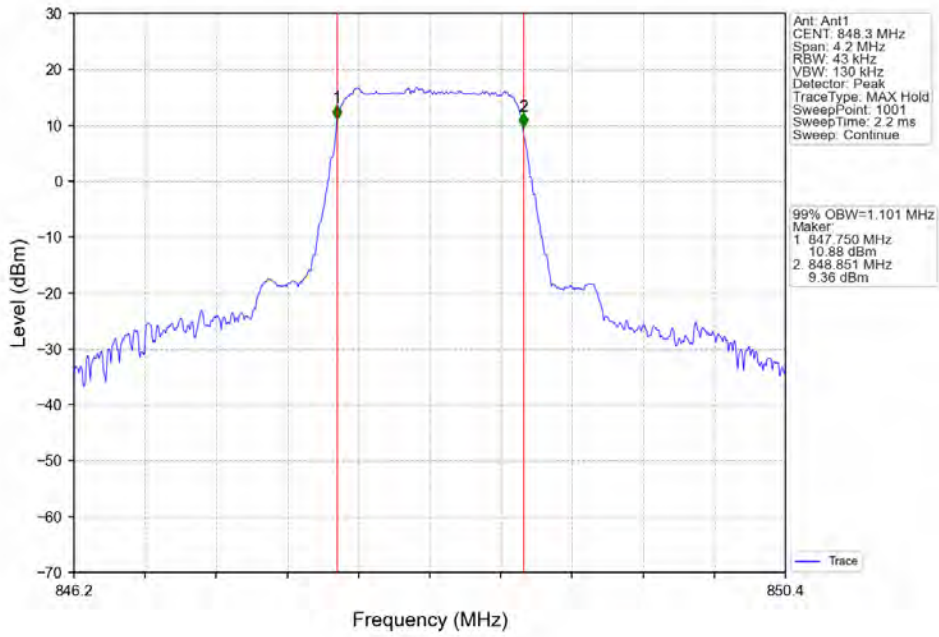
#### 4.1.1 Test Result

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	1.120	/	Pass
		836.5	6	0	1.108	/	Pass
		848.3	6	0	1.101	/	Pass
	16QAM	824.7	6	0	1.123	/	Pass
		836.5	6	0	1.111	/	Pass
		848.3	6	0	1.114	/	Pass
3	QPSK	825.5	15	0	2.732	/	Pass
		836.5	15	0	2.727	/	Pass
		847.5	15	0	2.719	/	Pass
	16QAM	825.5	15	0	2.710	/	Pass
		836.5	15	0	2.729	/	Pass
		847.5	15	0	2.719	/	Pass
5	QPSK	826.5	25	0	4.537	/	Pass
		836.5	25	0	4.532	/	Pass
		846.5	25	0	4.556	/	Pass
	16QAM	826.5	25	0	4.541	/	Pass
		836.5	25	0	4.555	/	Pass
		846.5	25	0	4.525	/	Pass
10	QPSK	829	50	0	9.068	/	Pass
		836.5	50	0	9.044	/	Pass
		844	50	0	9.024	/	Pass
	16QAM	829	50	0	9.053	/	Pass
		836.5	50	0	9.041	/	Pass
		844	50	0	9.026	/	Pass

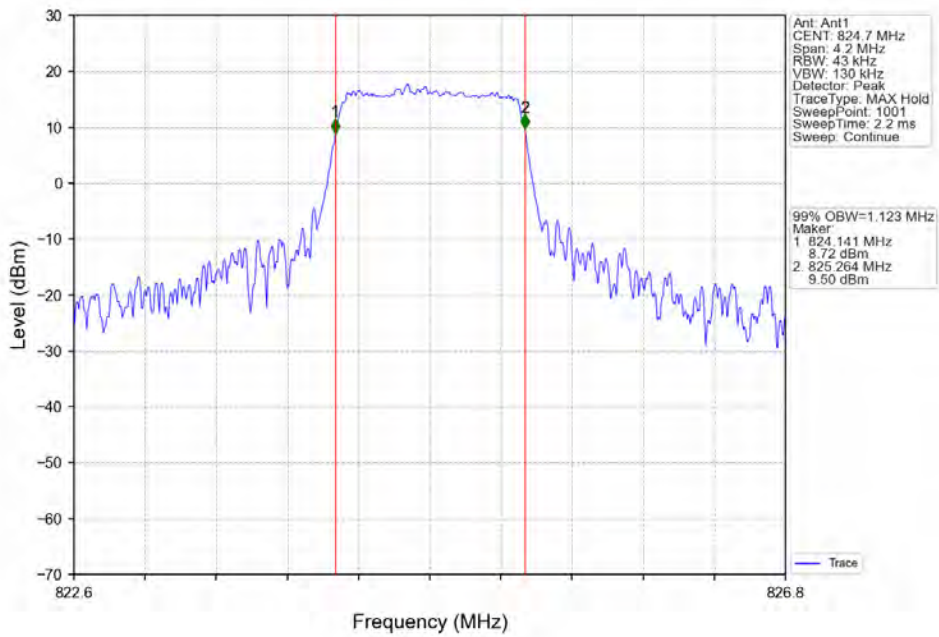
### 4.1.2 Test Graph



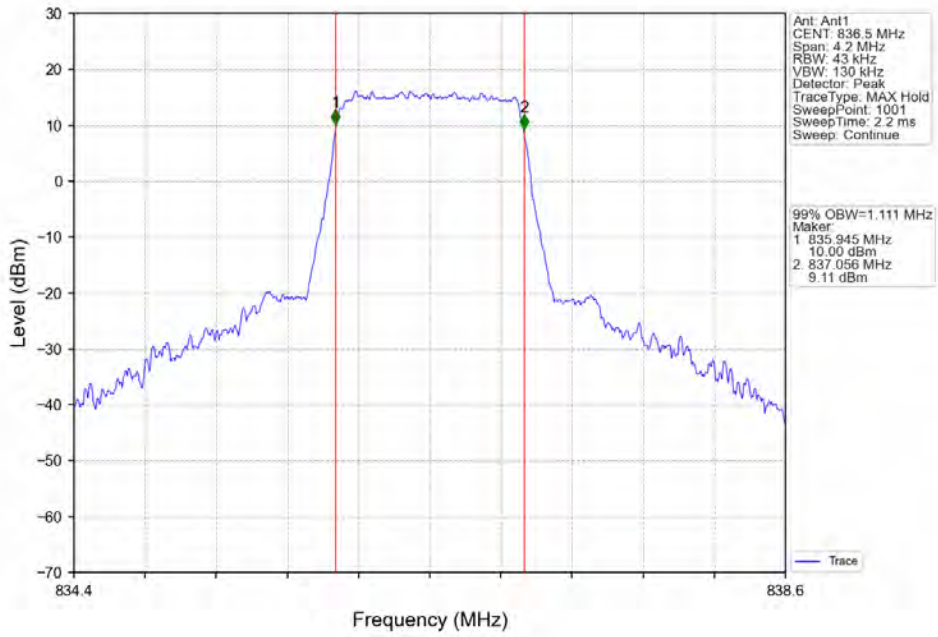
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



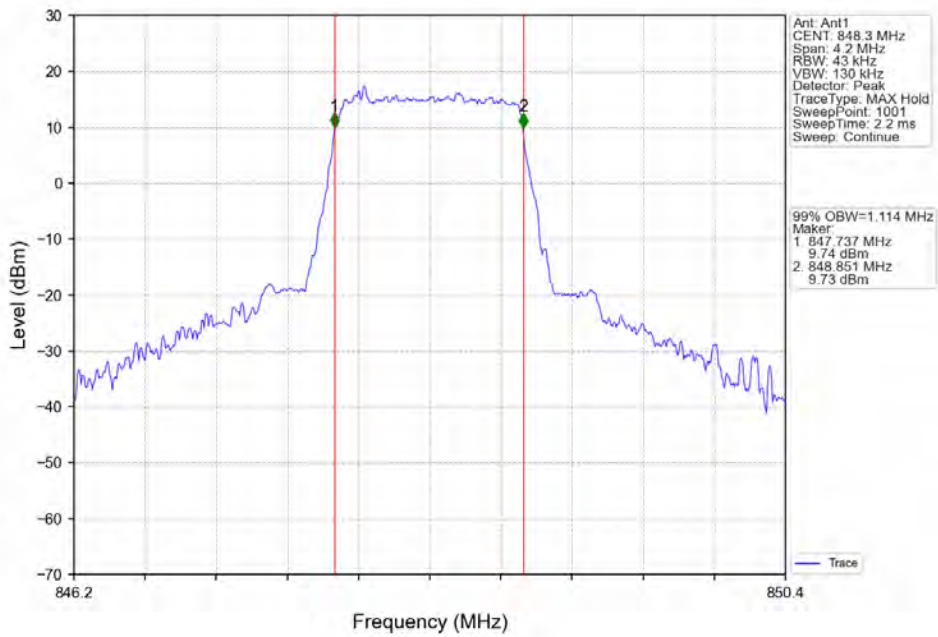
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



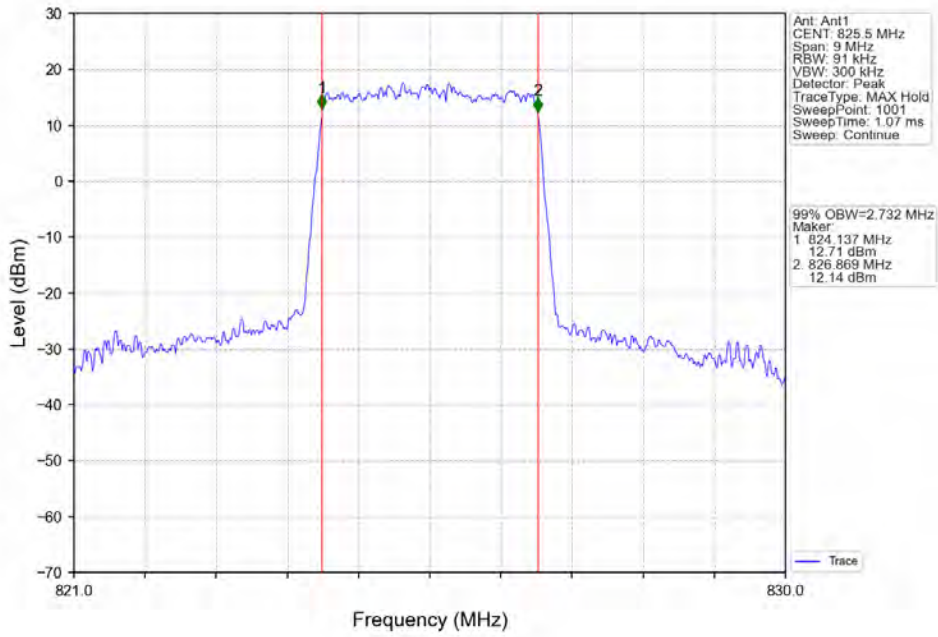
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



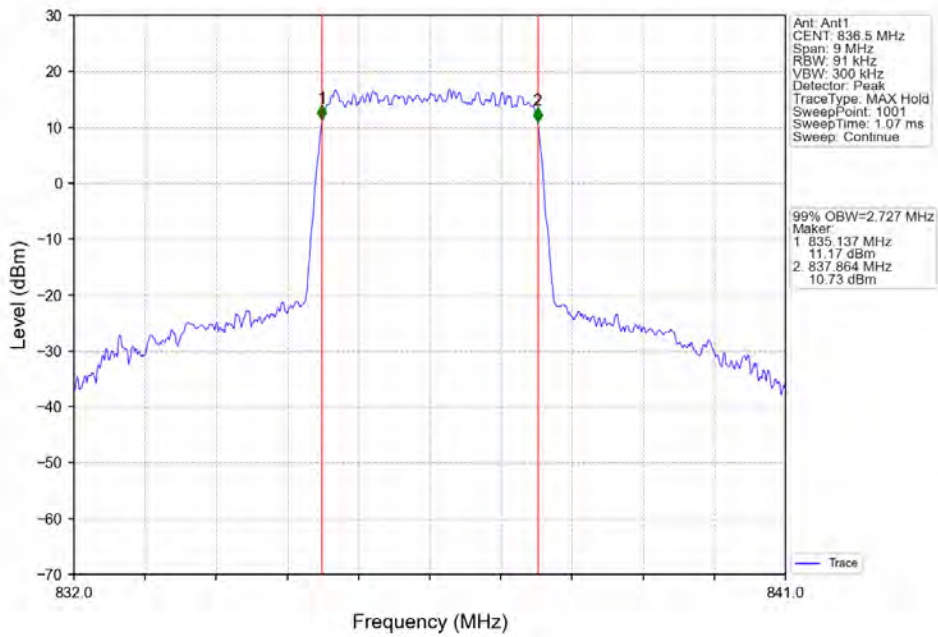
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



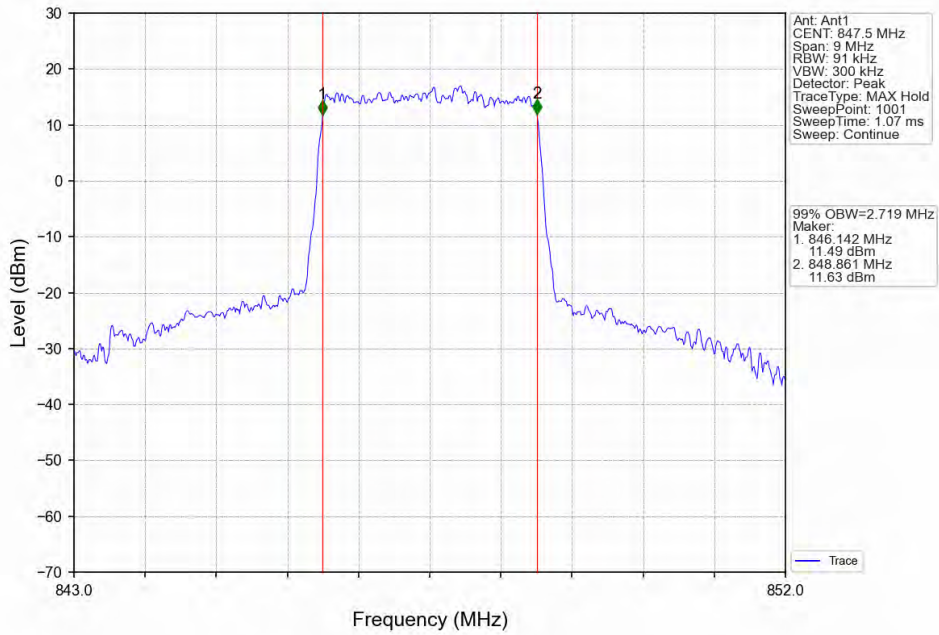
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



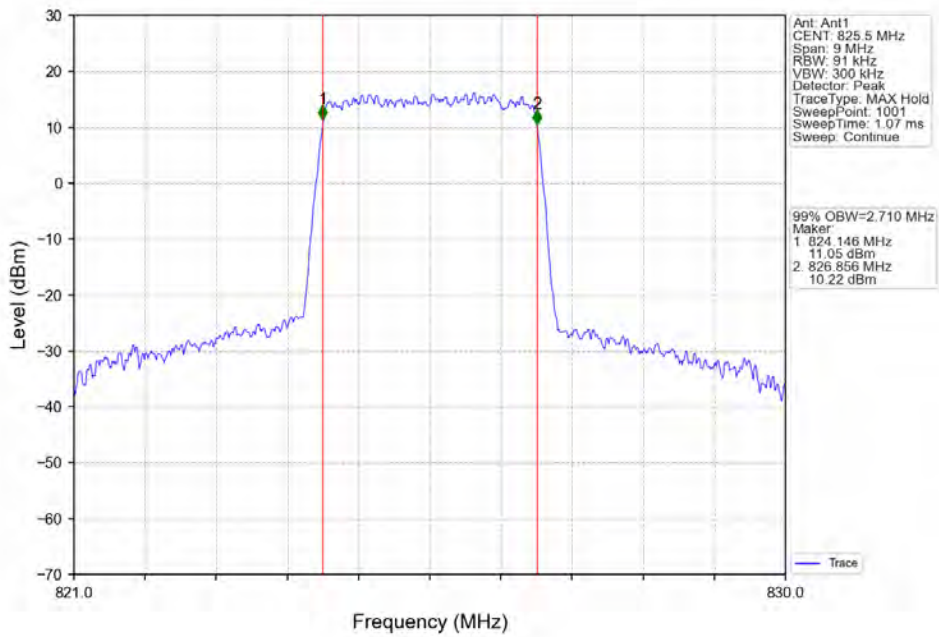
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



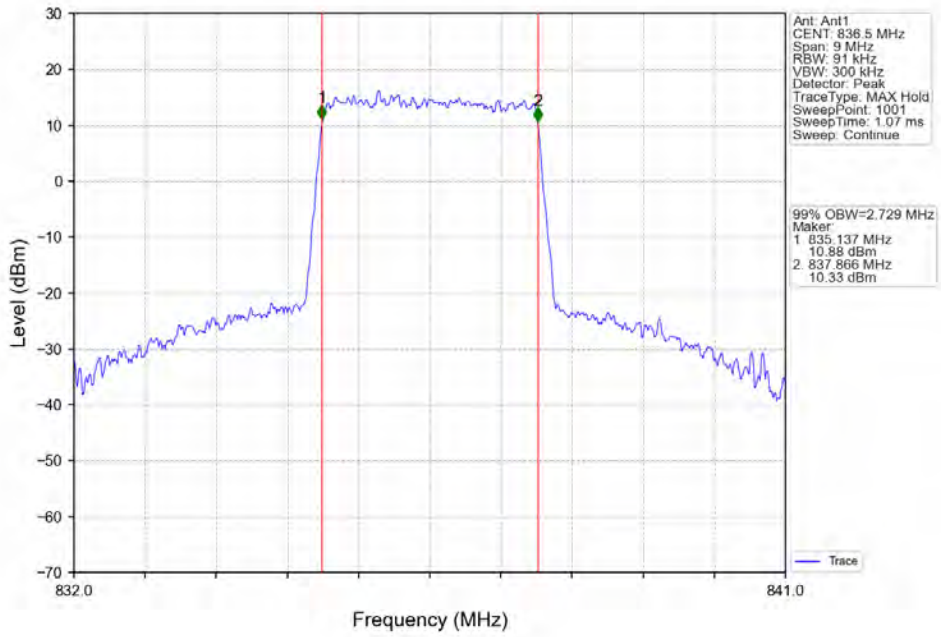
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



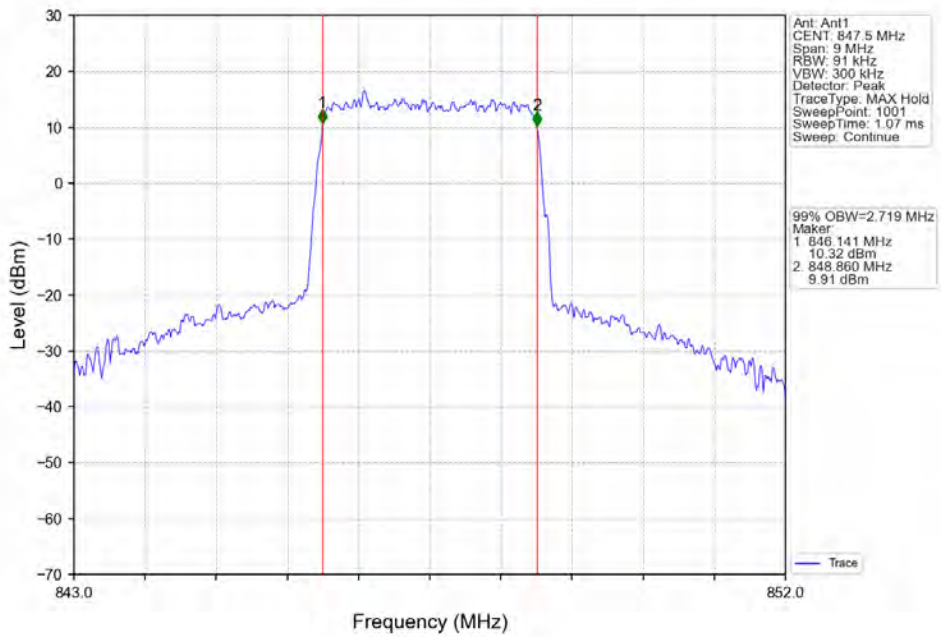
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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

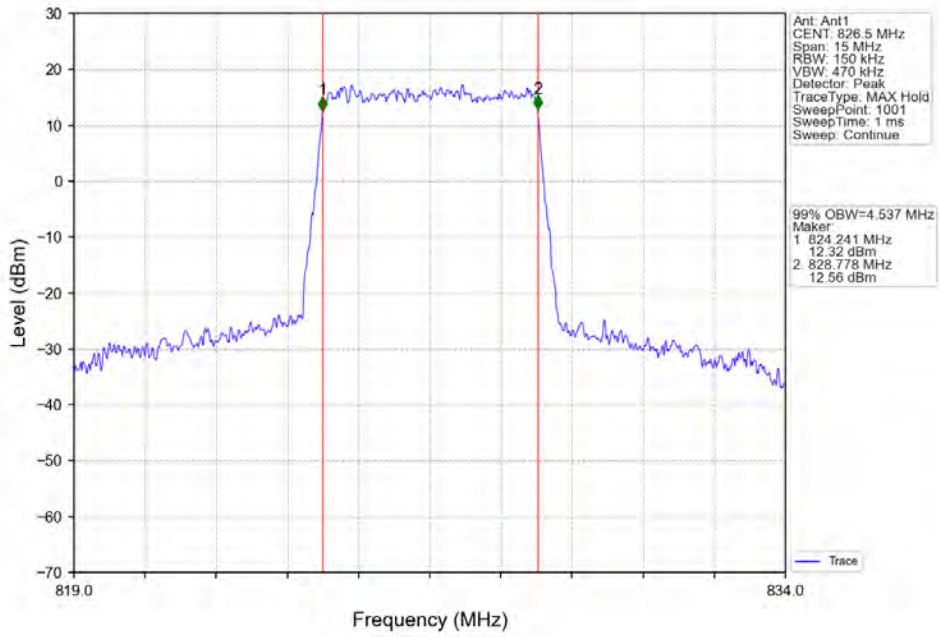


Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

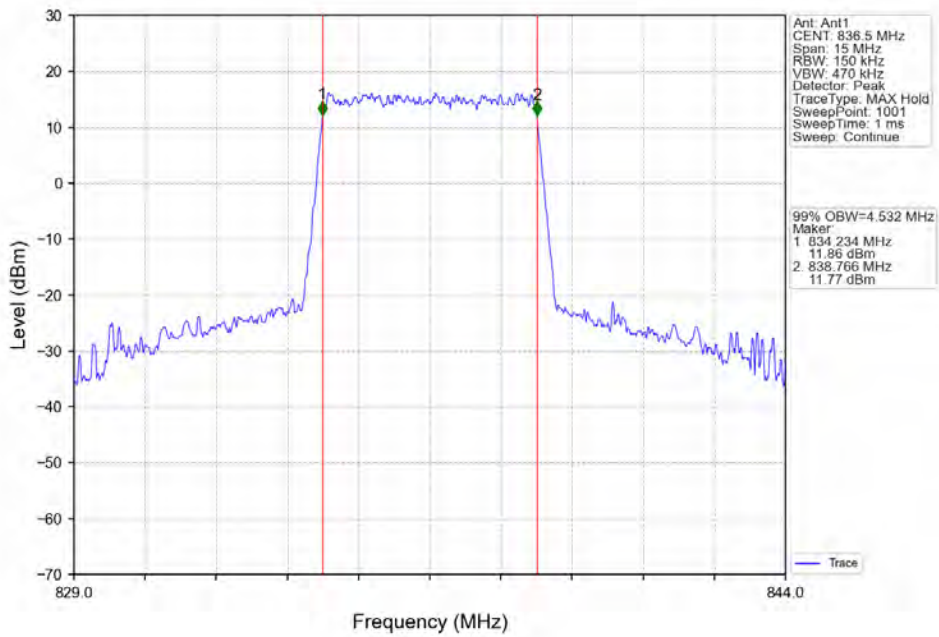




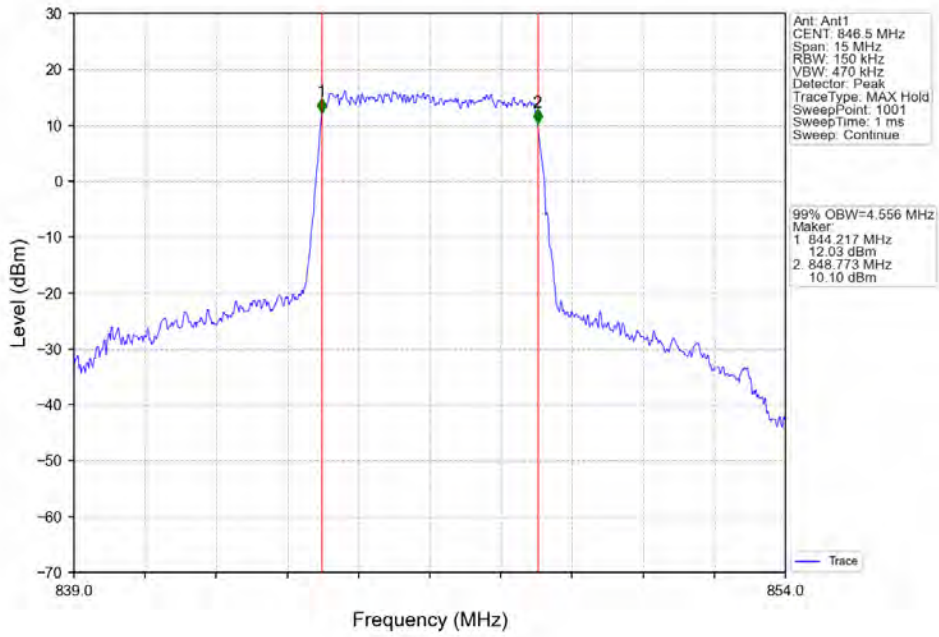
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



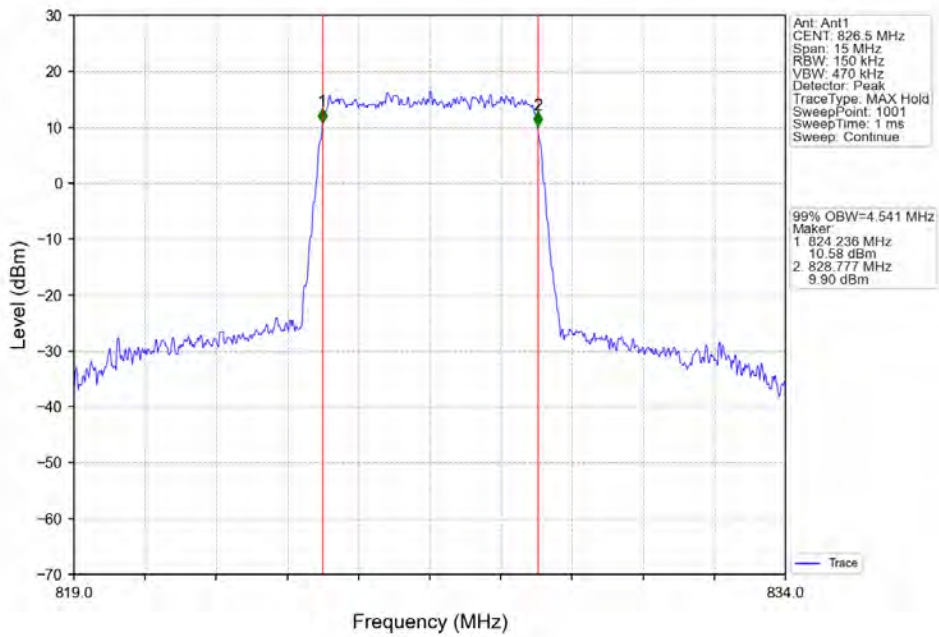
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



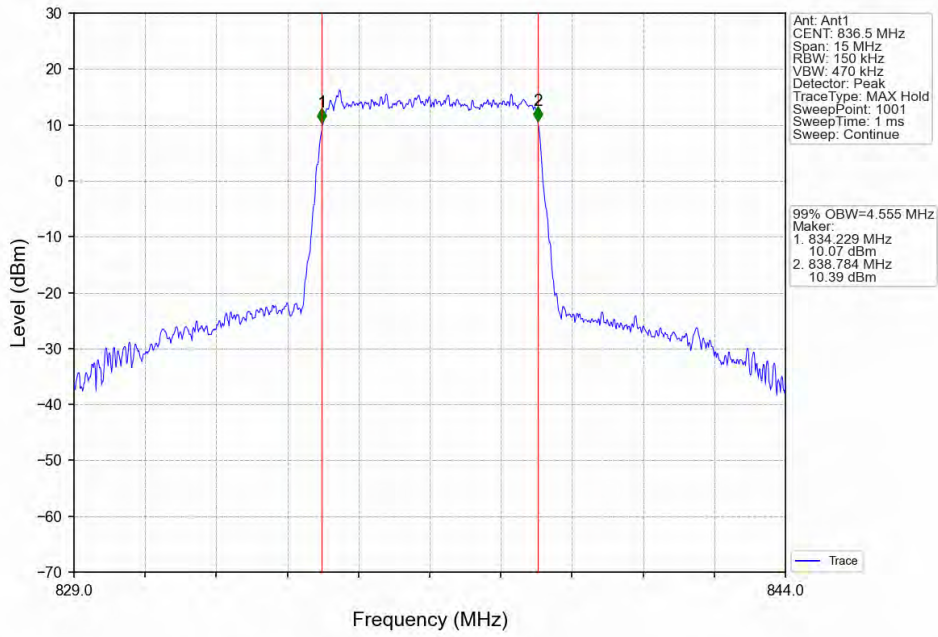
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



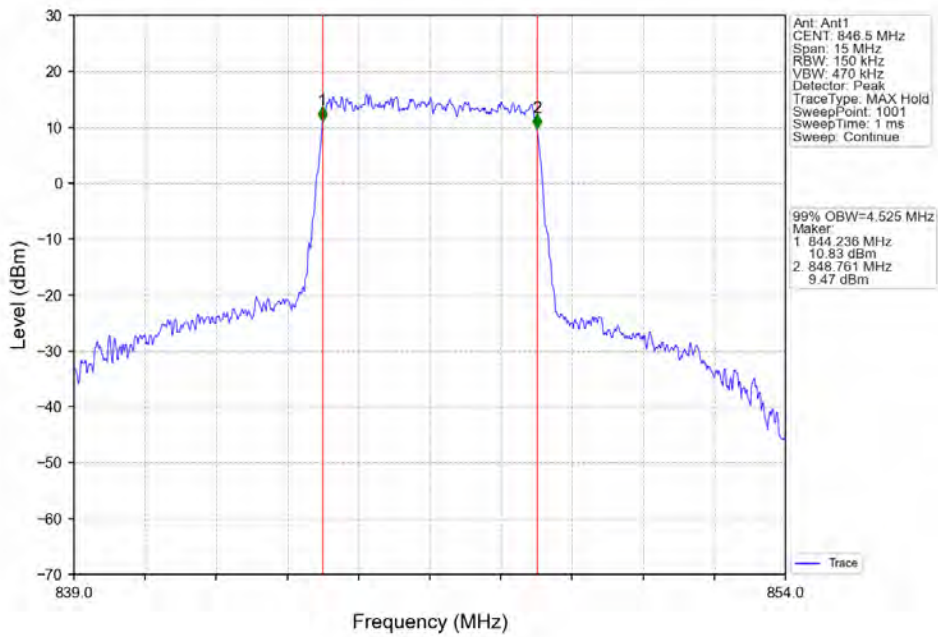
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



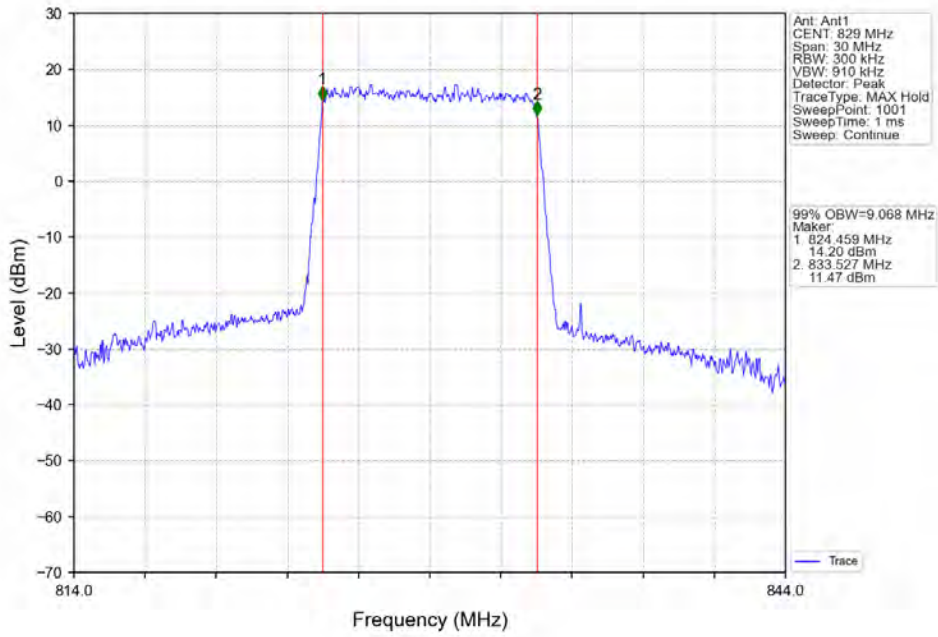
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



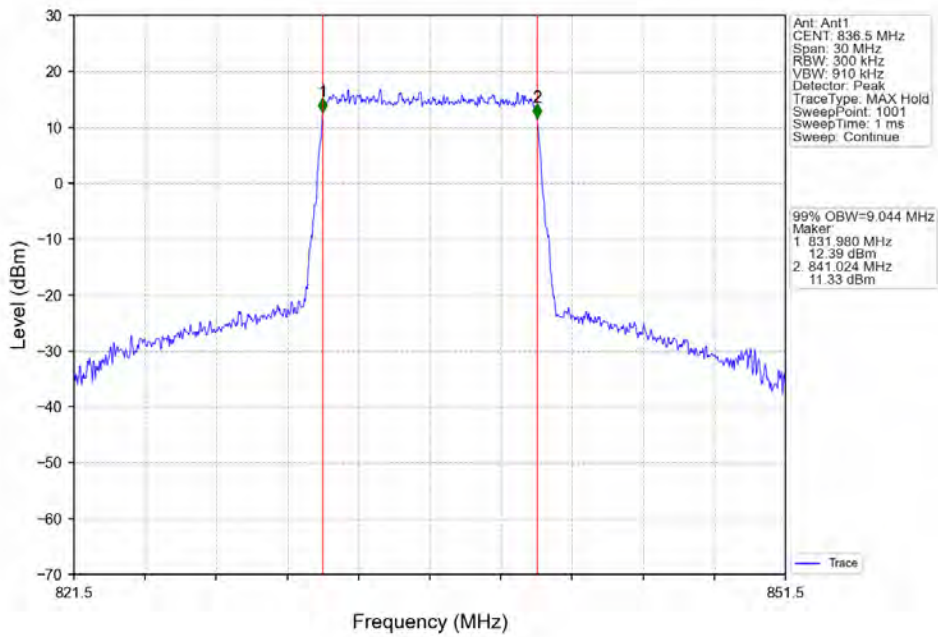
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



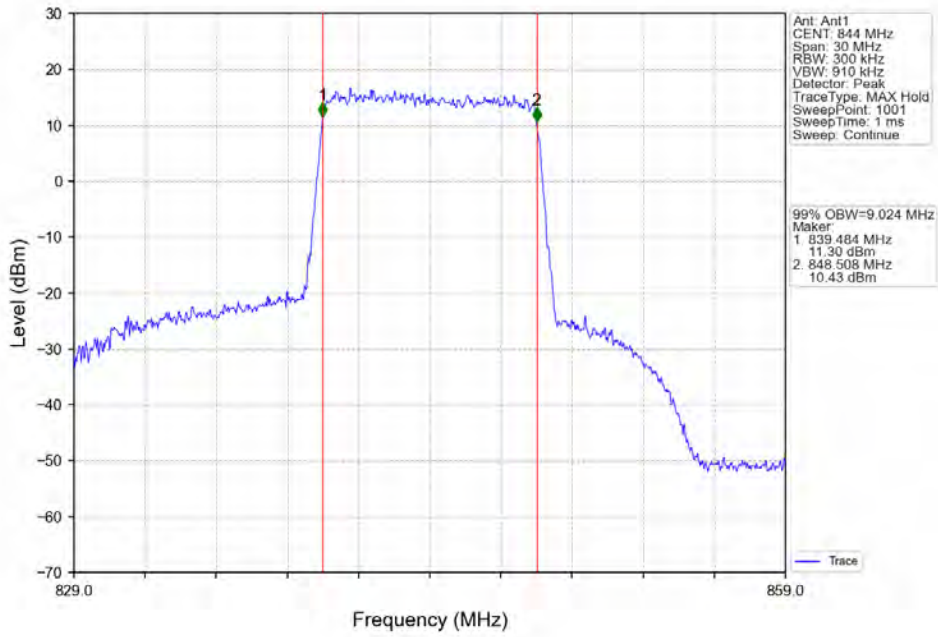
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



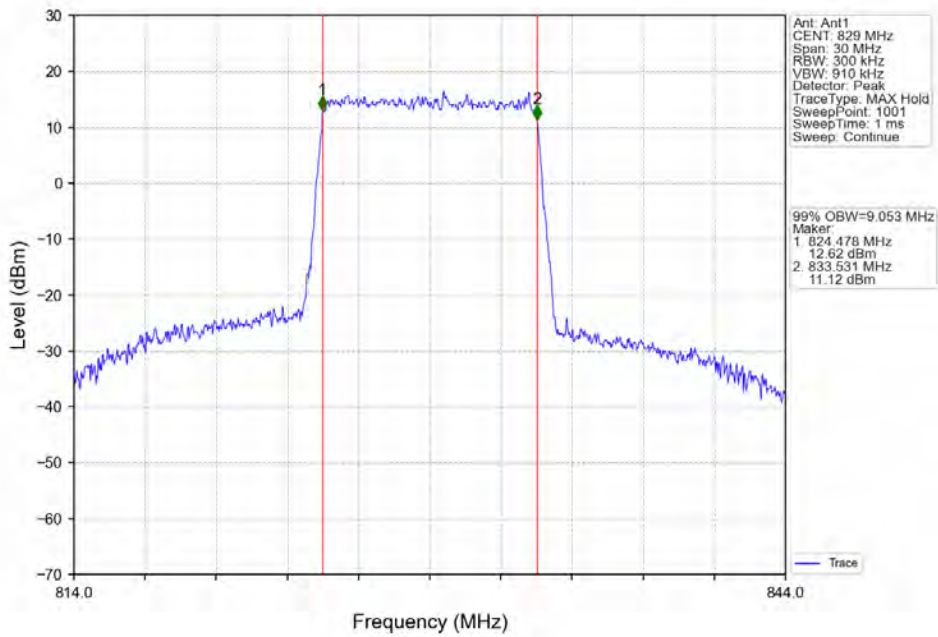
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



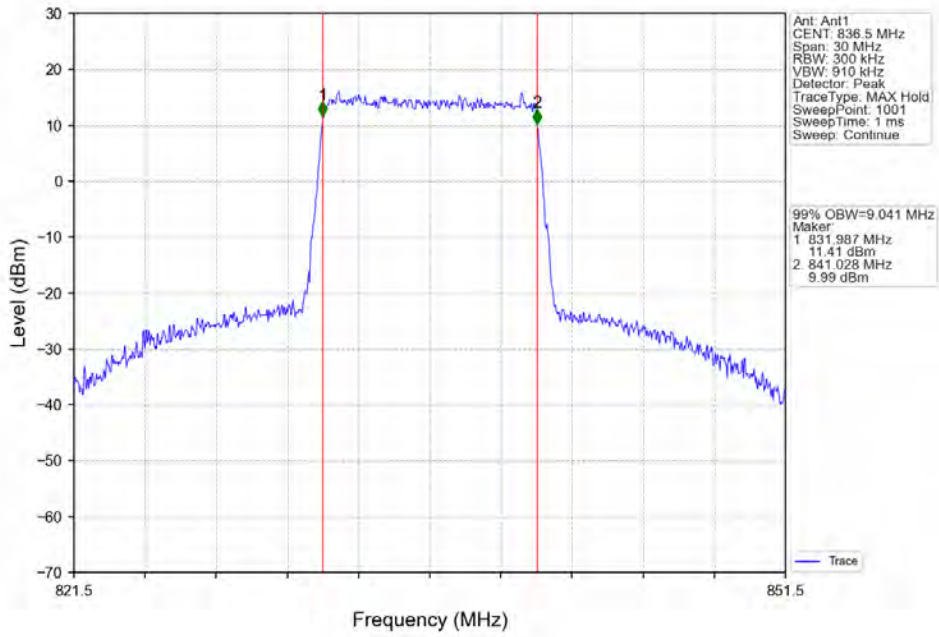
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



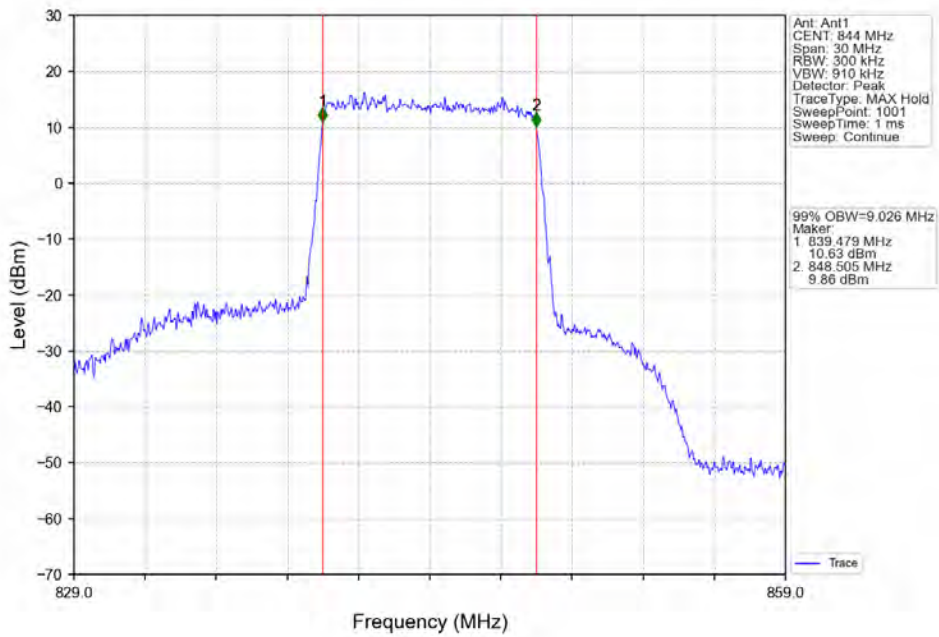
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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

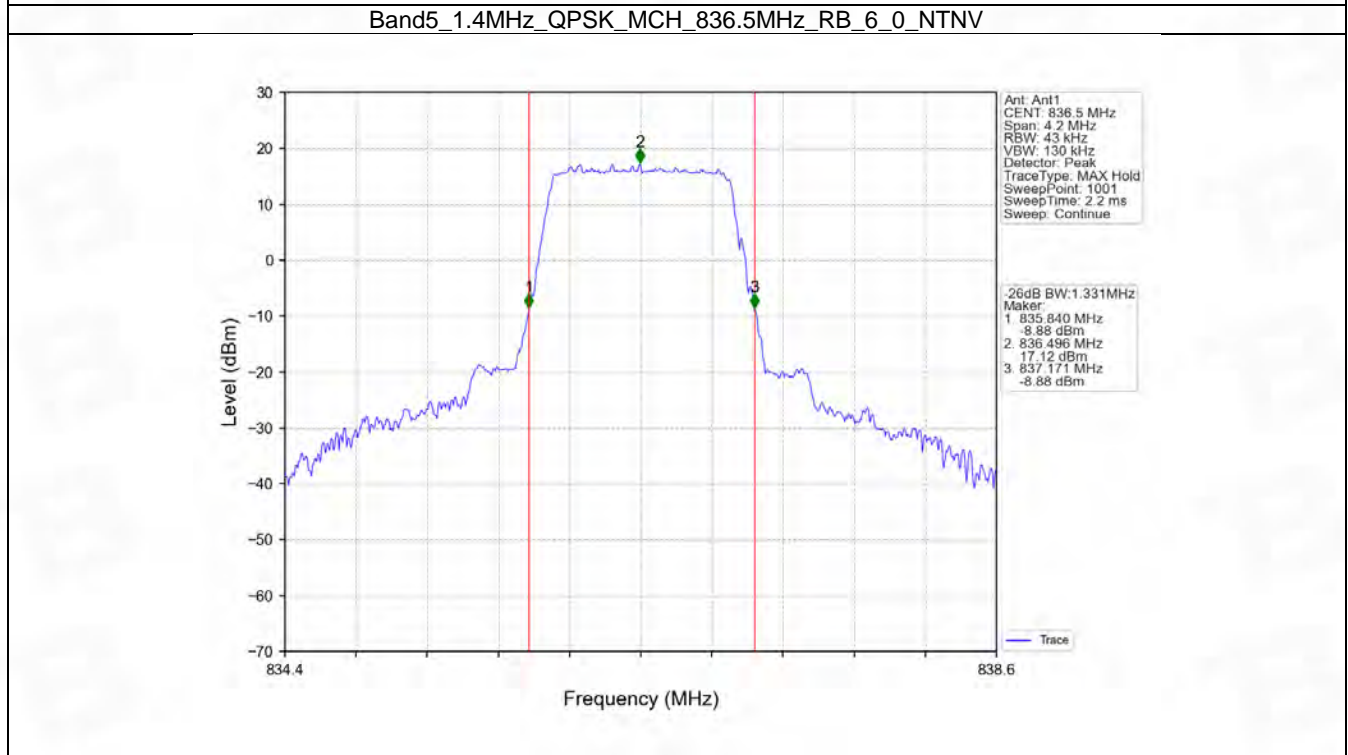
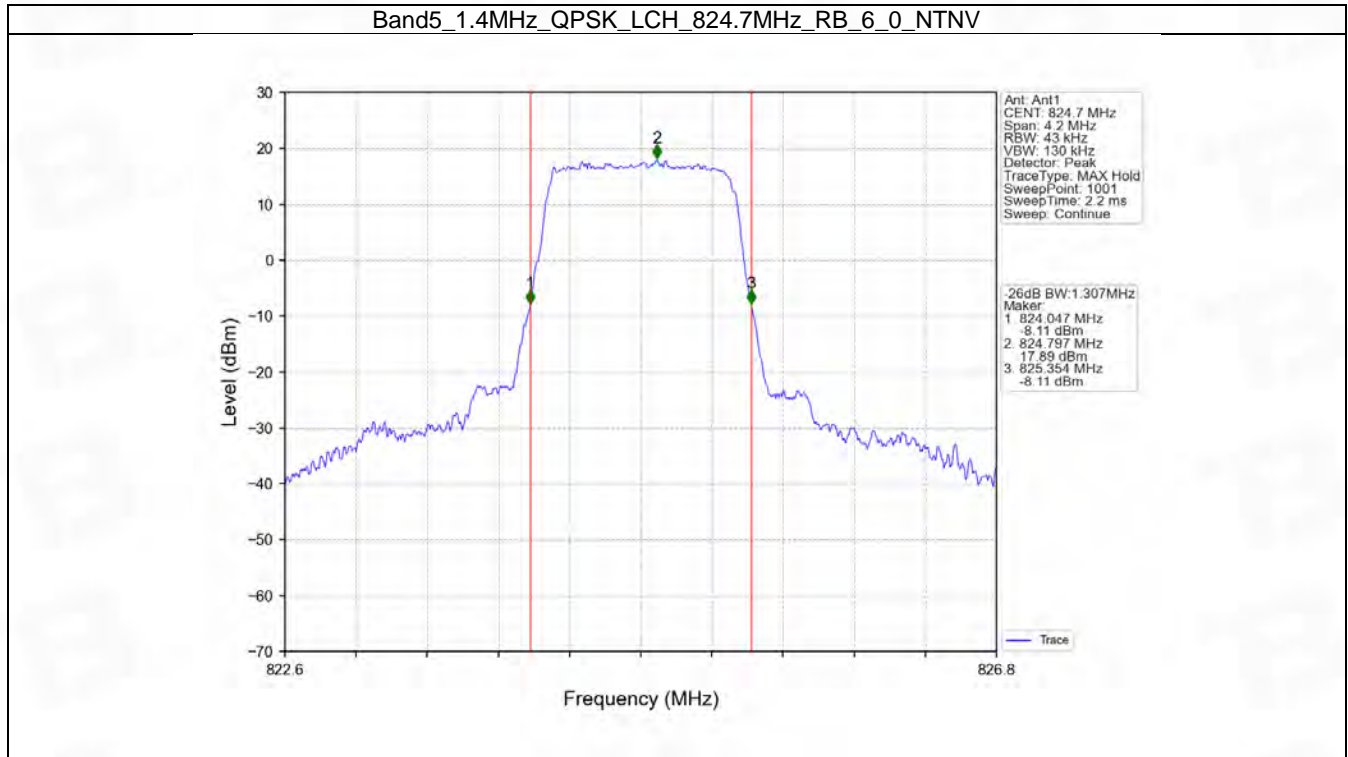


## 4.2 Band5\_XDB

### 4.2.1 Test Result

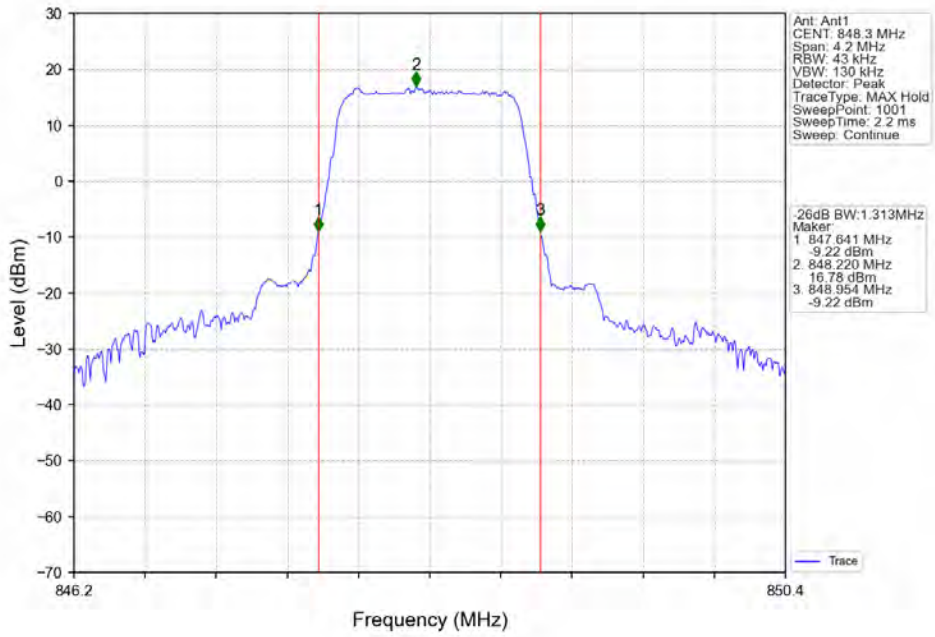
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.307	/	Pass
		836.5	6	0	1.331	/	Pass
		848.3	6	0	1.313	/	Pass
	16QAM	824.7	6	0	1.583	/	Pass
		836.5	6	0	1.310	/	Pass
		848.3	6	0	1.306	/	Pass
3	QPSK	825.5	15	0	3.003	/	Pass
		836.5	15	0	3.003	/	Pass
		847.5	15	0	2.971	/	Pass
	16QAM	825.5	15	0	3.000	/	Pass
		836.5	15	0	2.993	/	Pass
		847.5	15	0	3.004	/	Pass
5	QPSK	826.5	25	0	5.043	/	Pass
		836.5	25	0	5.008	/	Pass
		846.5	25	0	5.020	/	Pass
	16QAM	826.5	25	0	5.036	/	Pass
		836.5	25	0	5.007	/	Pass
		846.5	25	0	5.000	/	Pass
10	QPSK	829	50	0	9.940	/	Pass
		836.5	50	0	9.920	/	Pass
		844	50	0	9.887	/	Pass
	16QAM	829	50	0	9.885	/	Pass
		836.5	50	0	9.995	/	Pass
		844	50	0	9.873	/	Pass

## 4.2.2 Test Graph

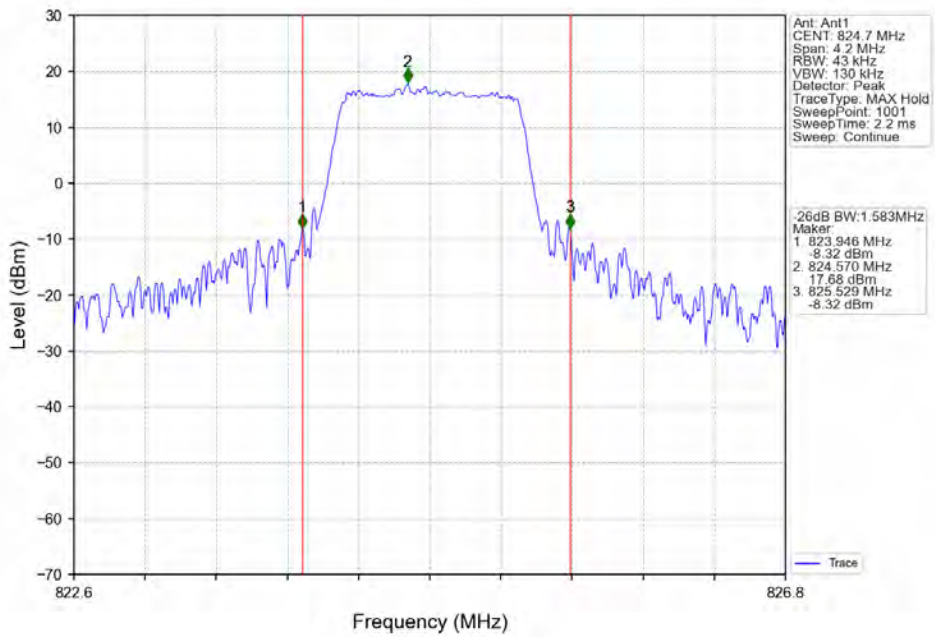




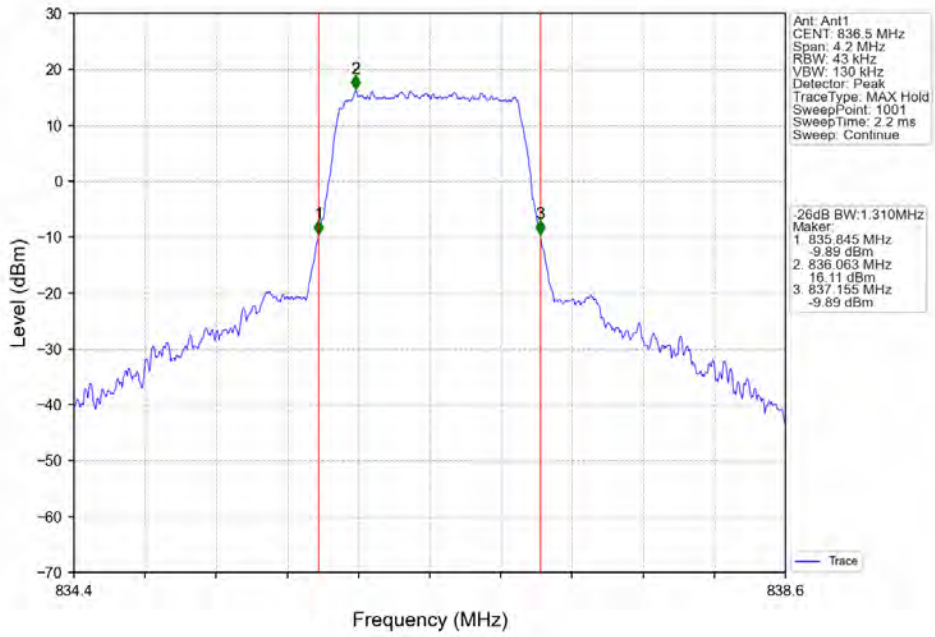
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



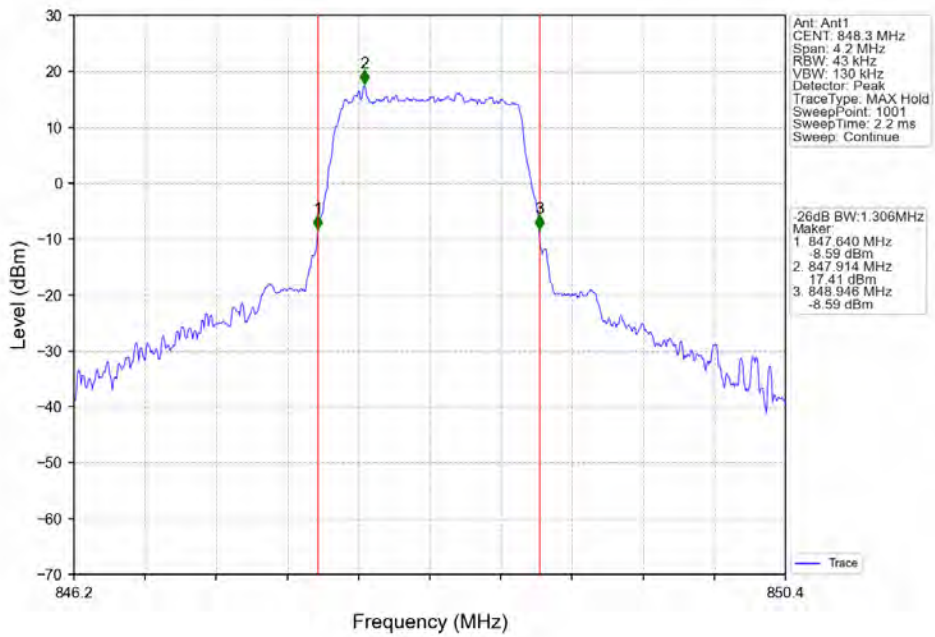
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



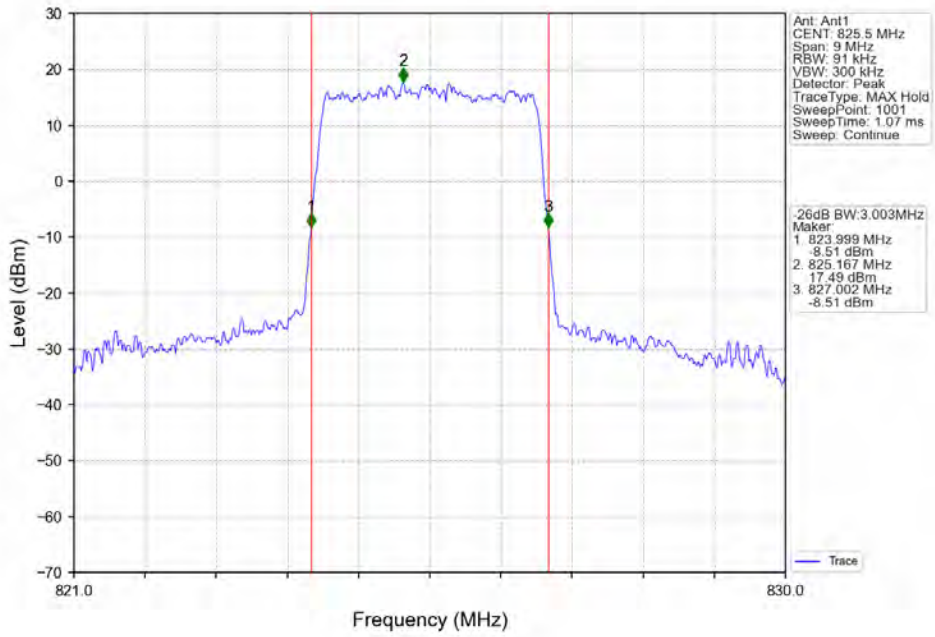
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



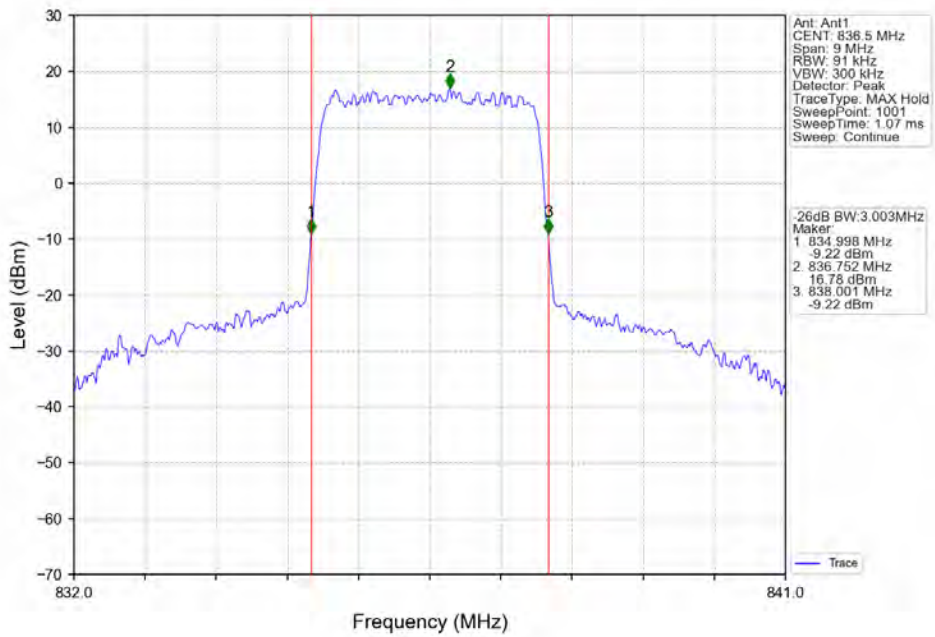
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



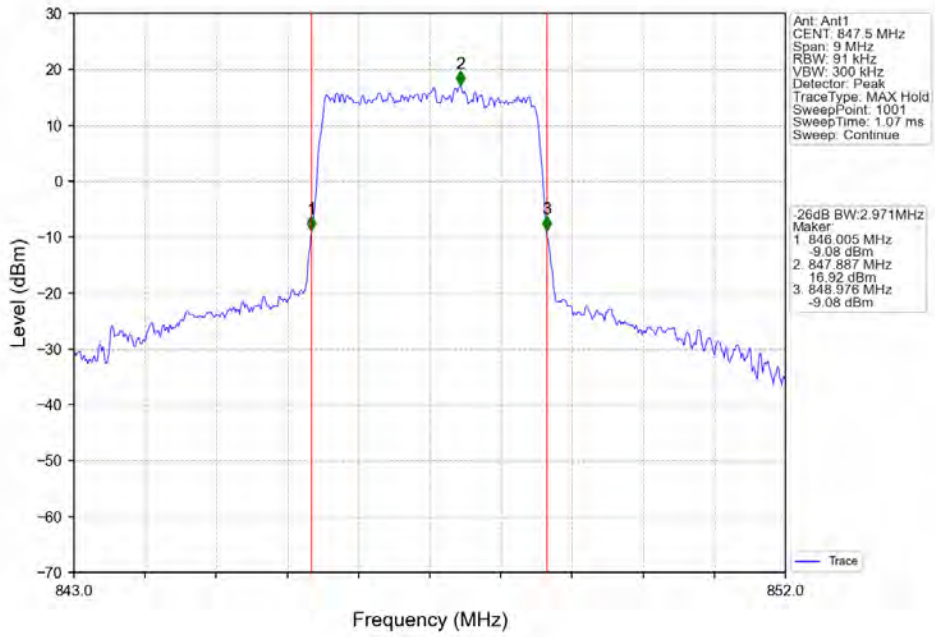
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



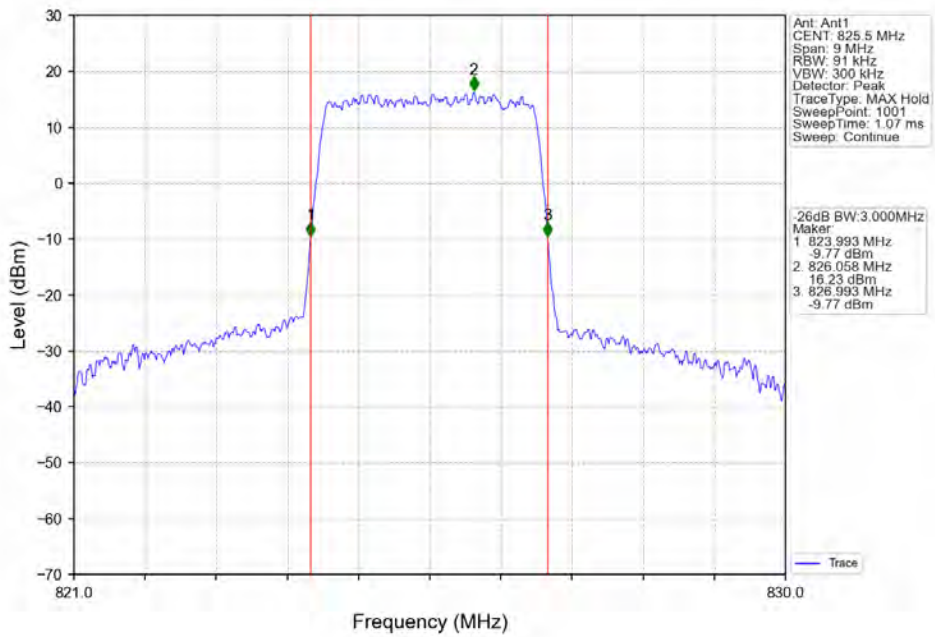
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



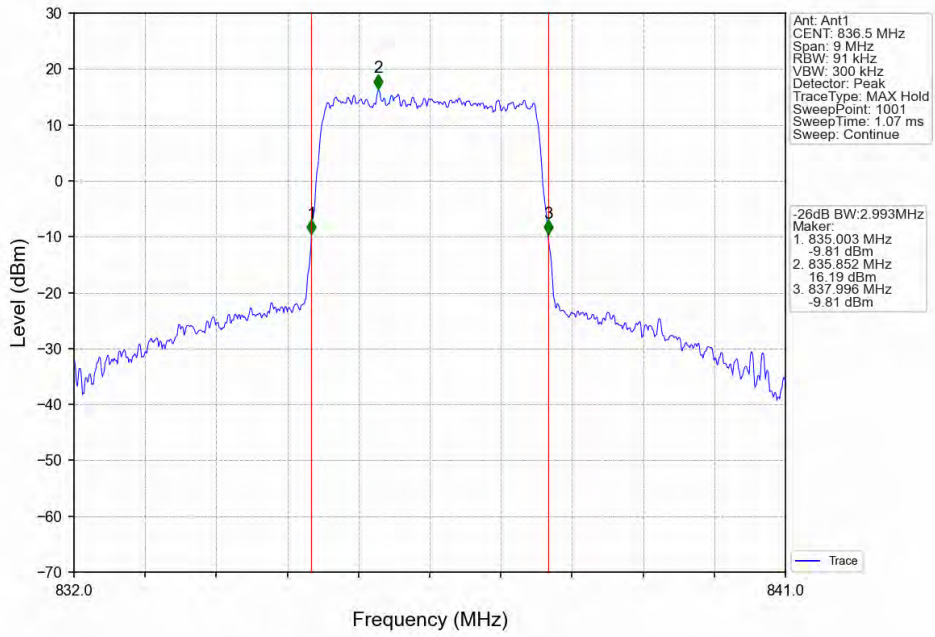
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



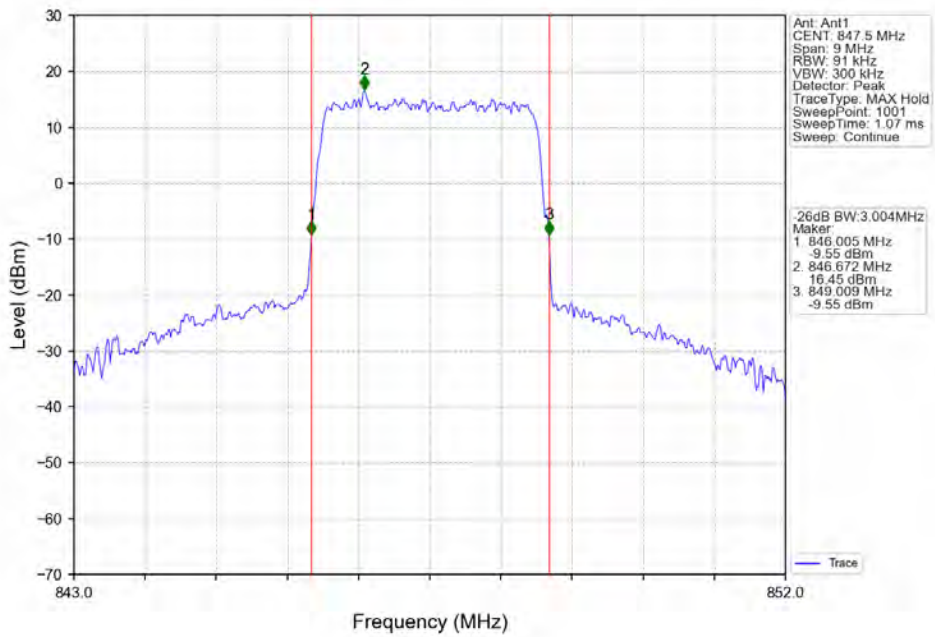
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



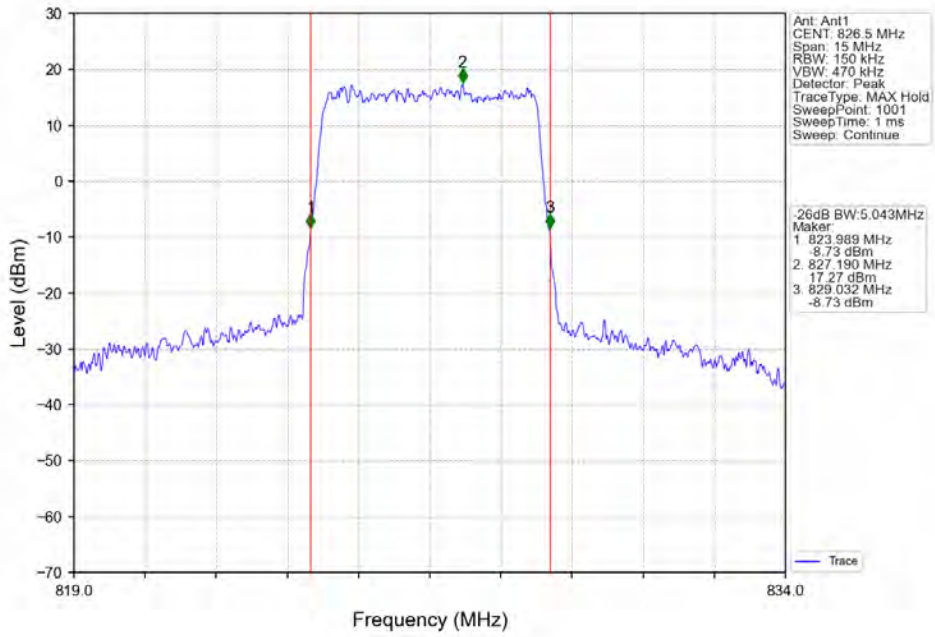
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



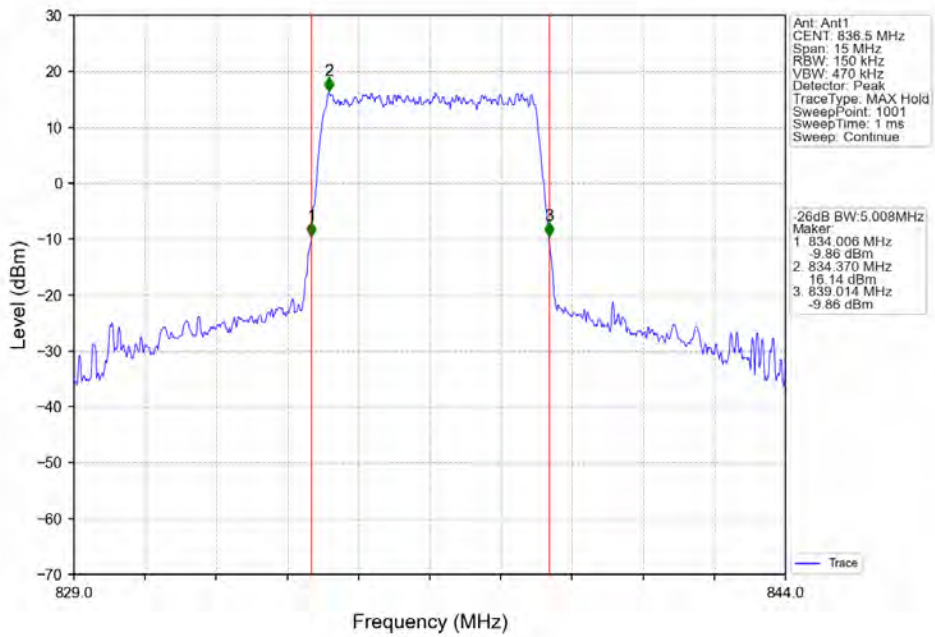
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



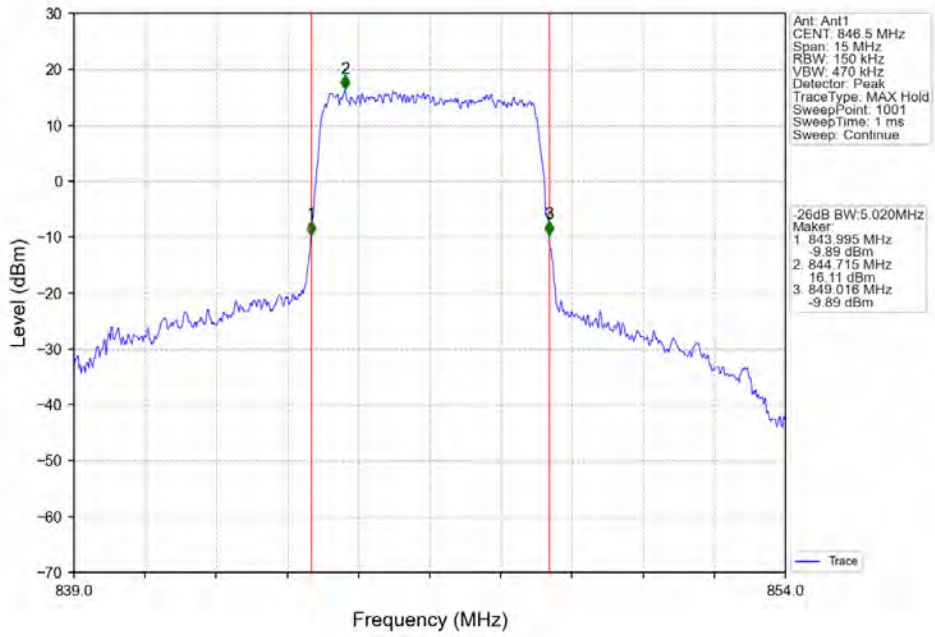
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



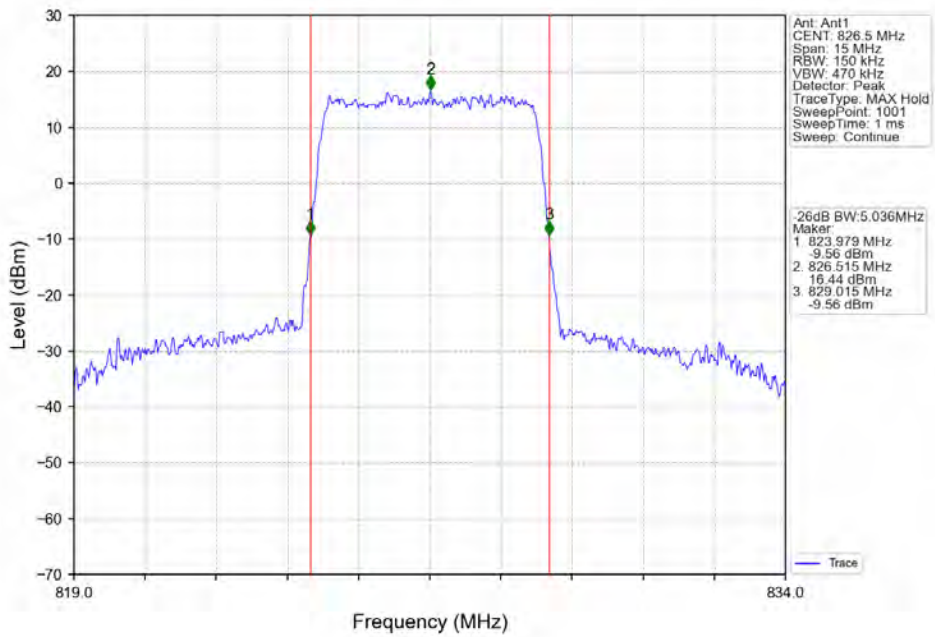
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



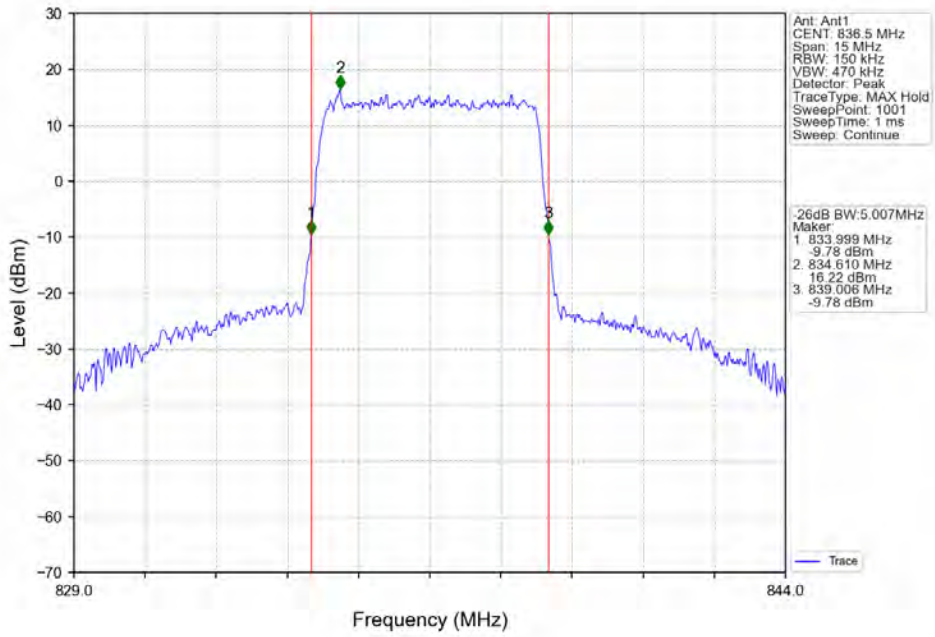
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



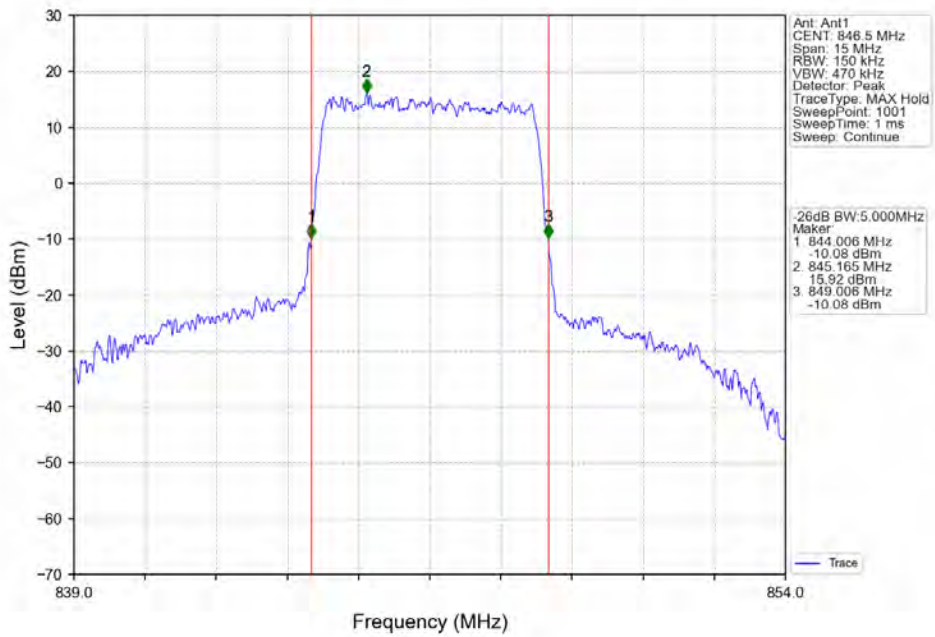
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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

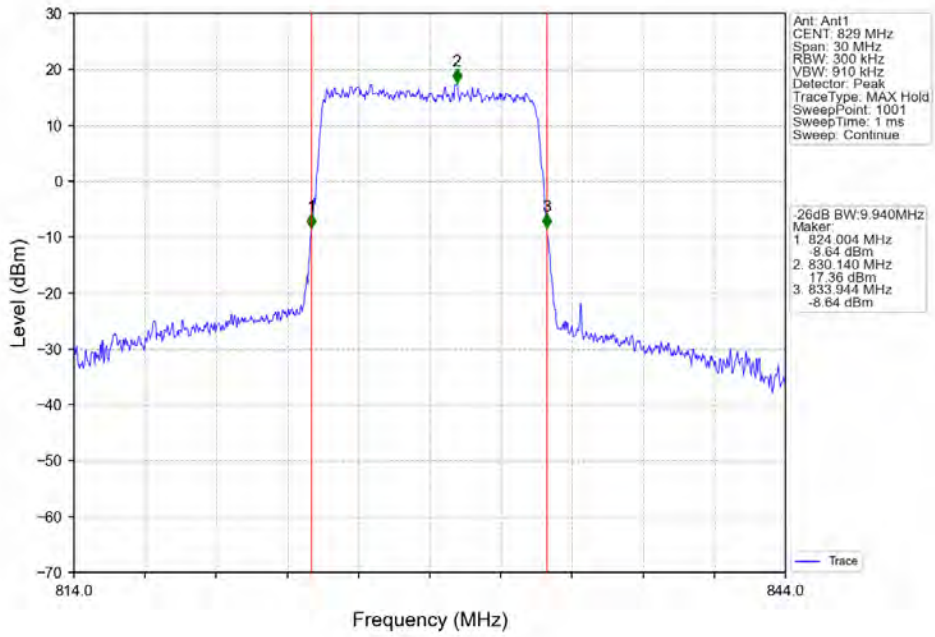


Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

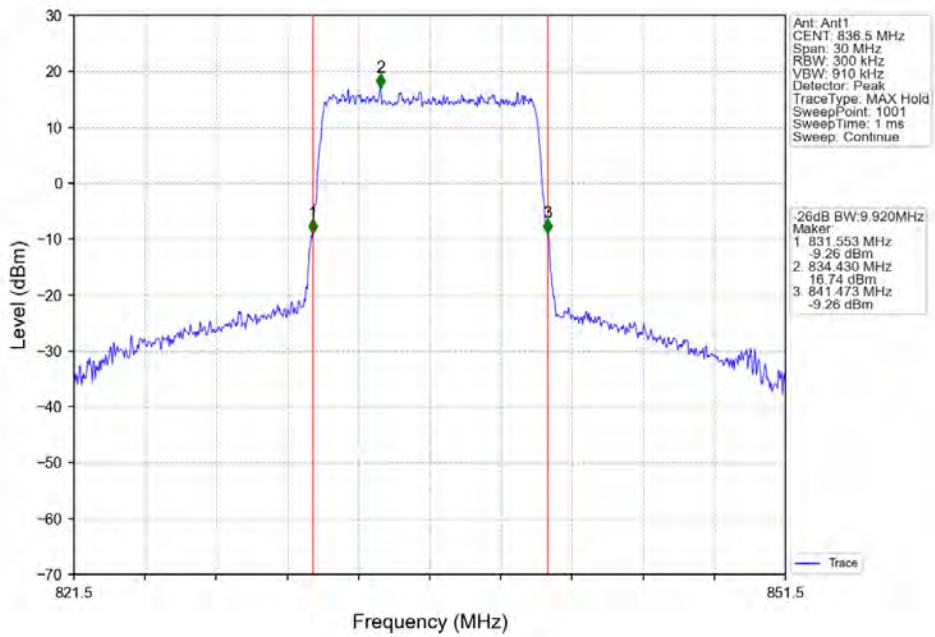




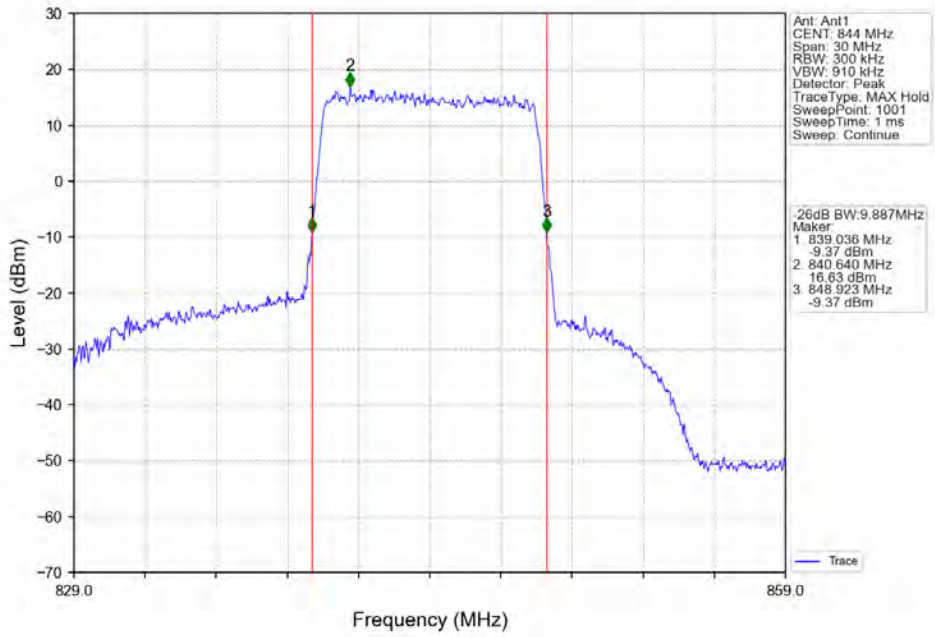
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



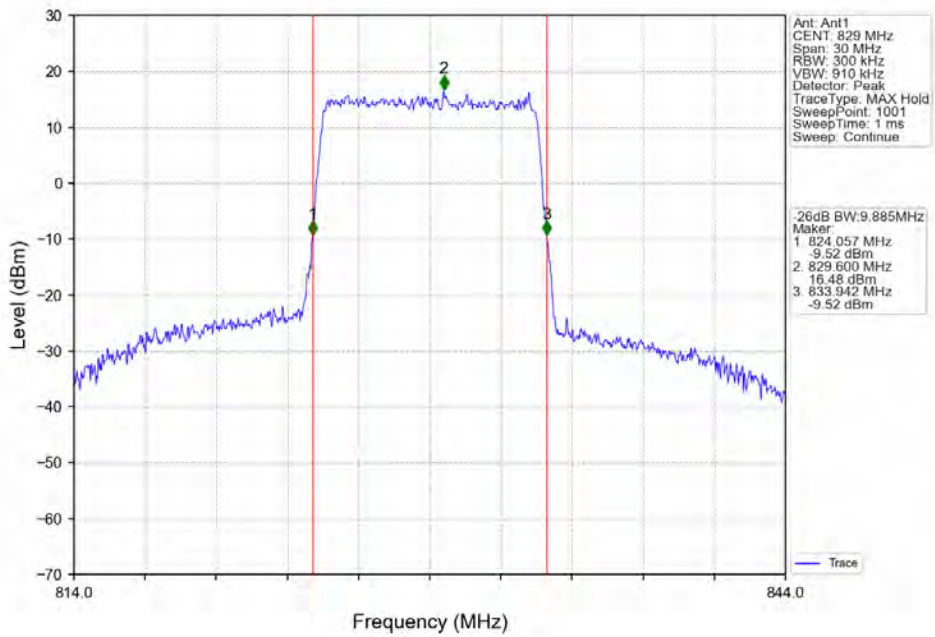
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



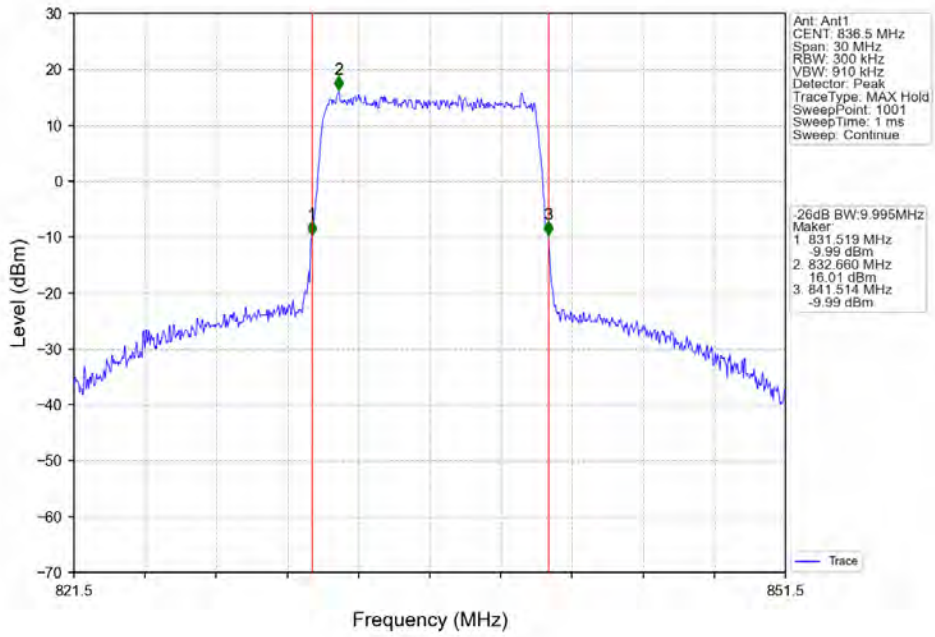
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



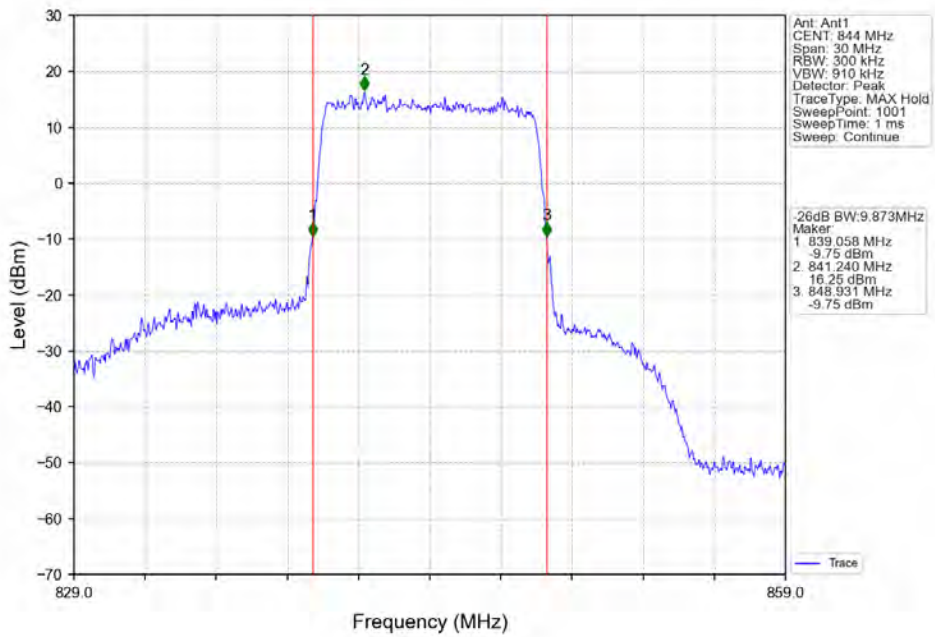
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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



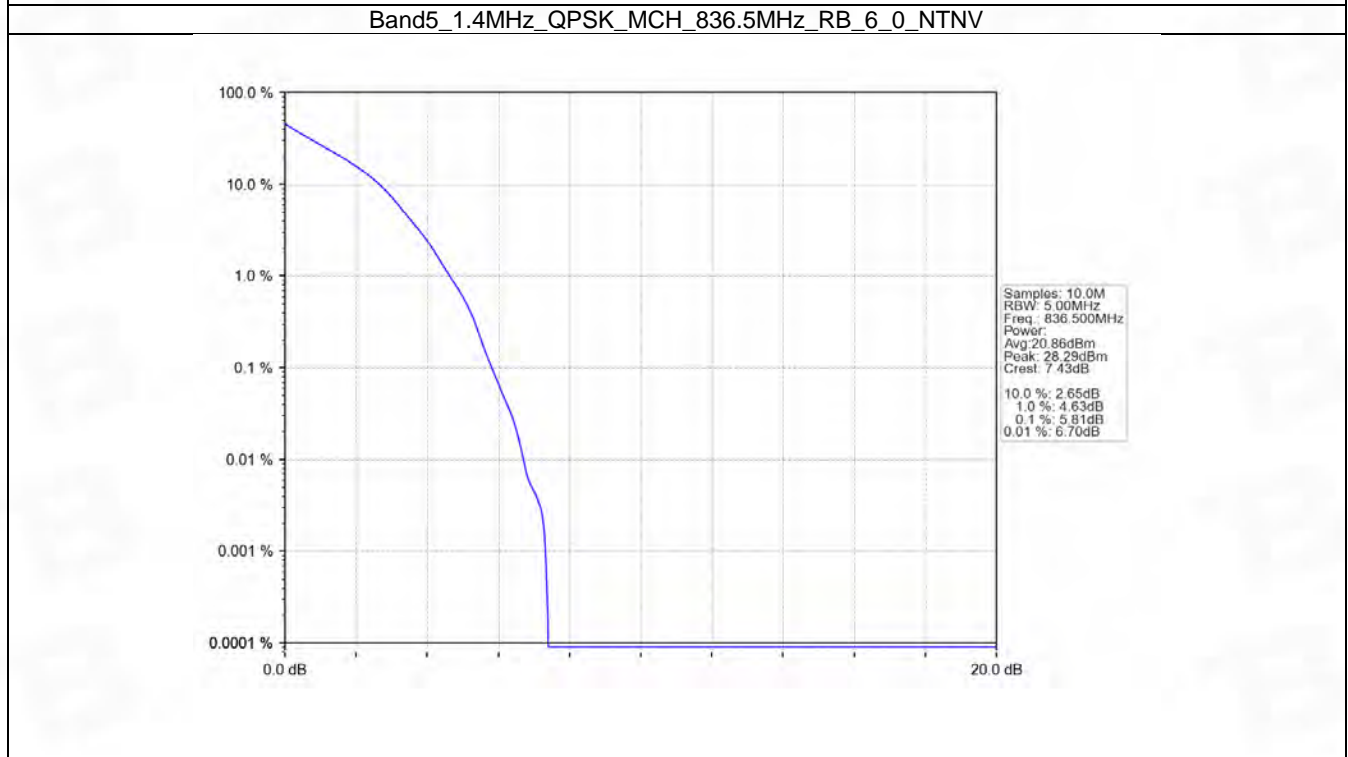
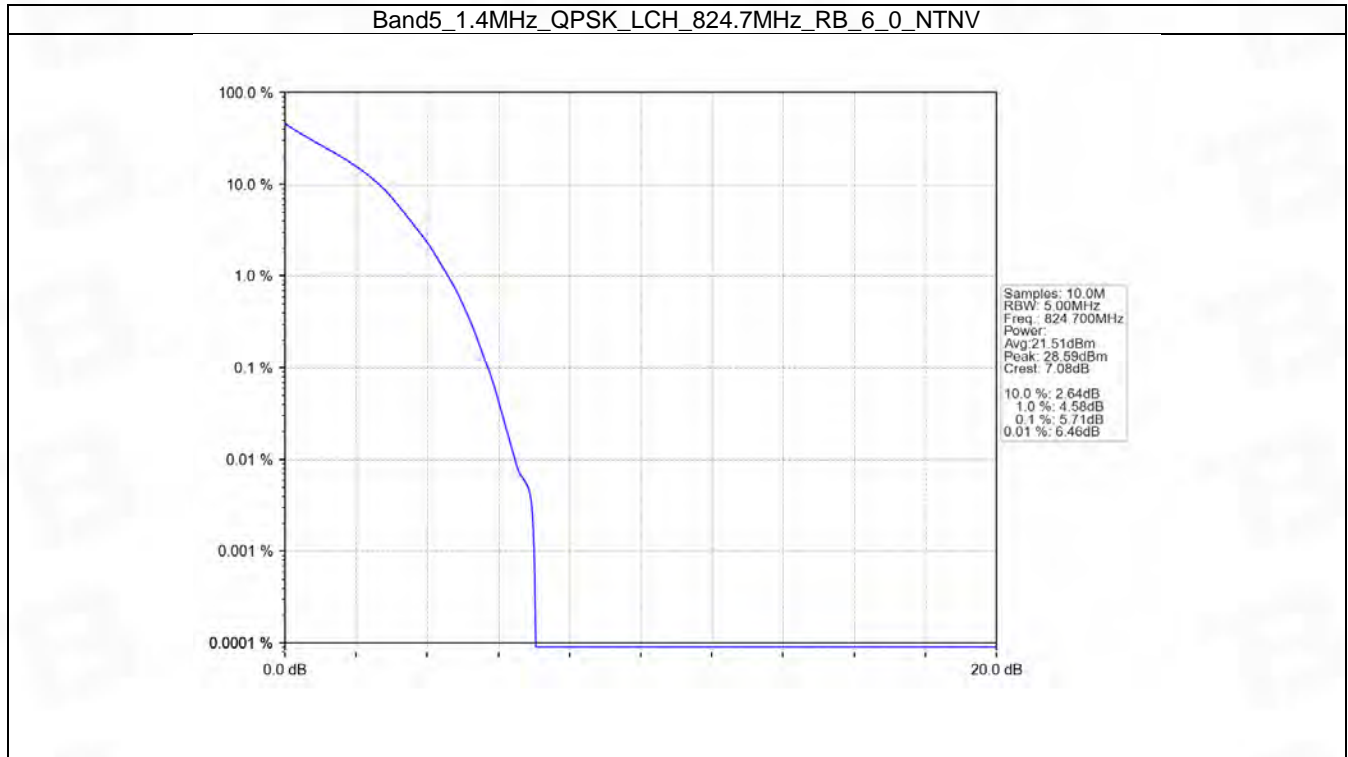
## 5. Peak-Average Ratio

### 5.1 B5\_1.4MHz

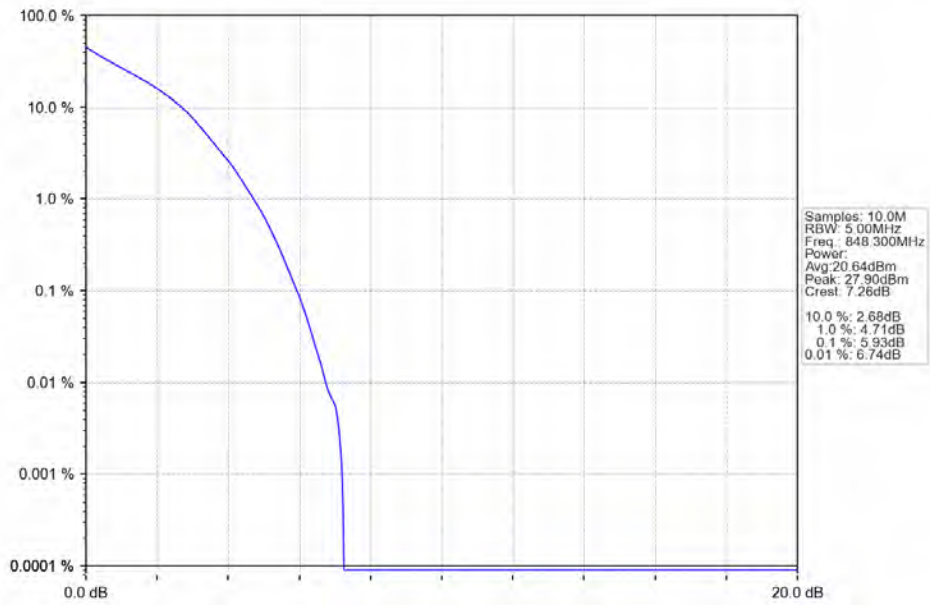
#### 5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	5.71	<=13	Pass
	836.5	6	0	5.81	<=13	Pass
	848.3	6	0	5.93	<=13	Pass
16QAM	824.7	6	0	6.43	<=13	Pass
	836.5	6	0	6.69	<=13	Pass
	848.3	6	0	6.66	<=13	Pass

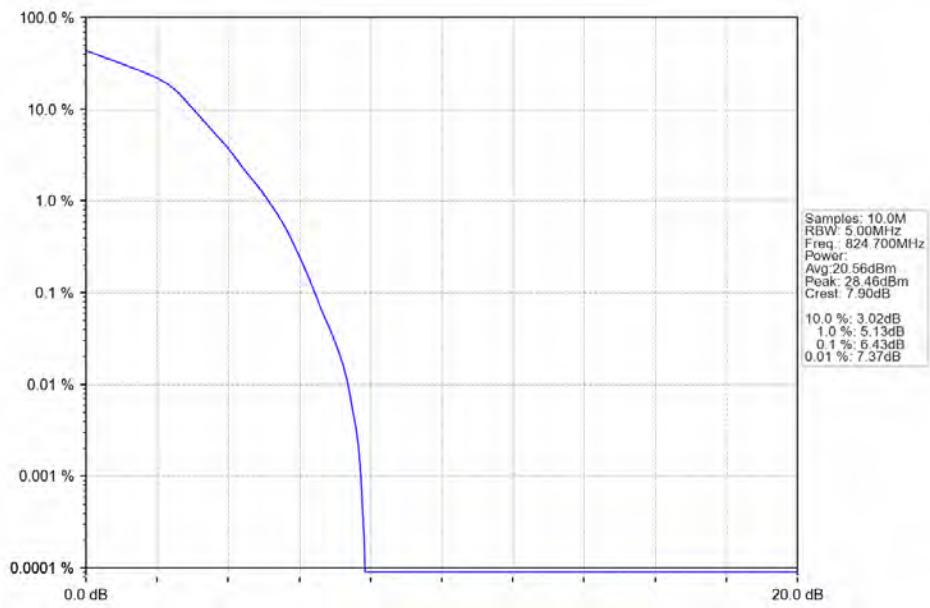
## 5.1.2 Test Graph



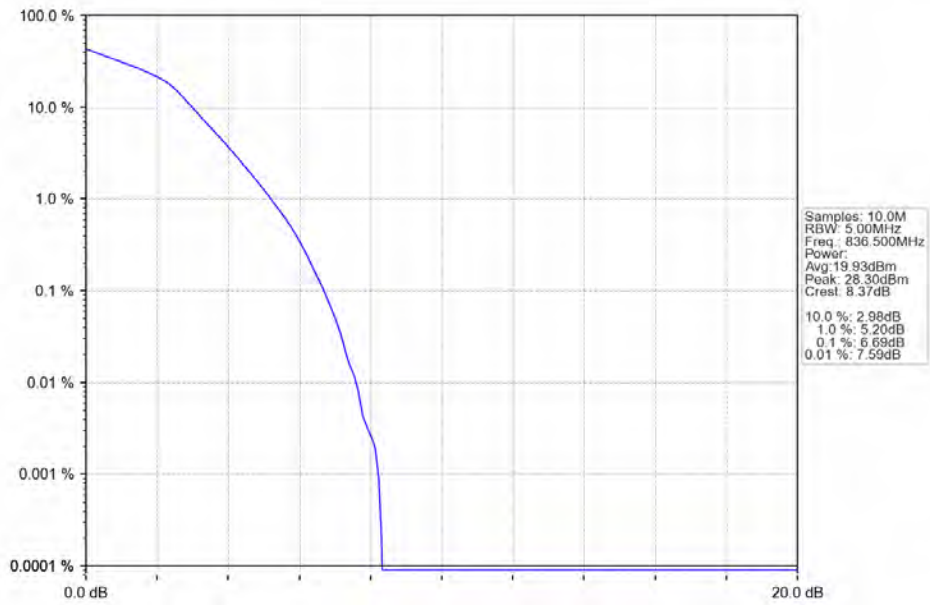
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



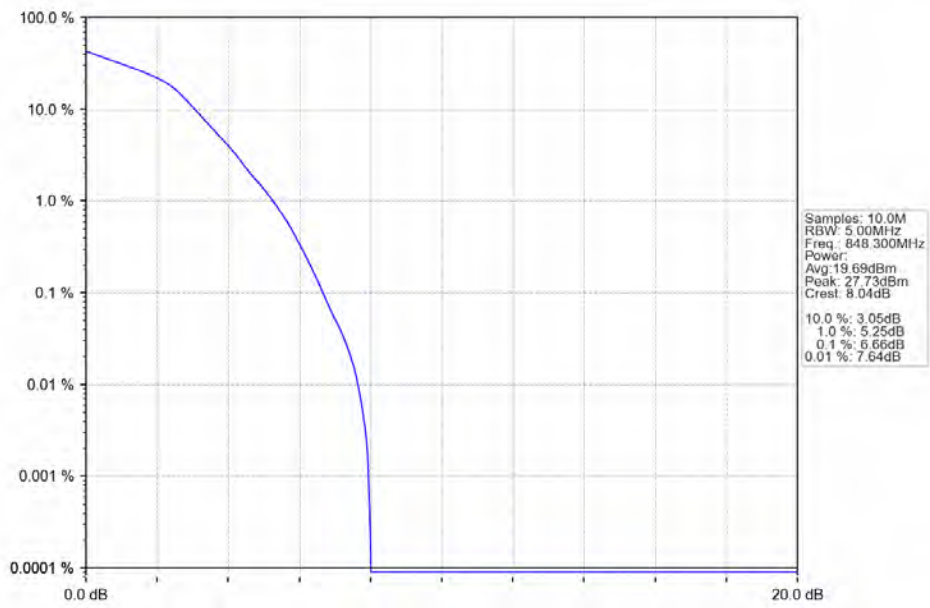
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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



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



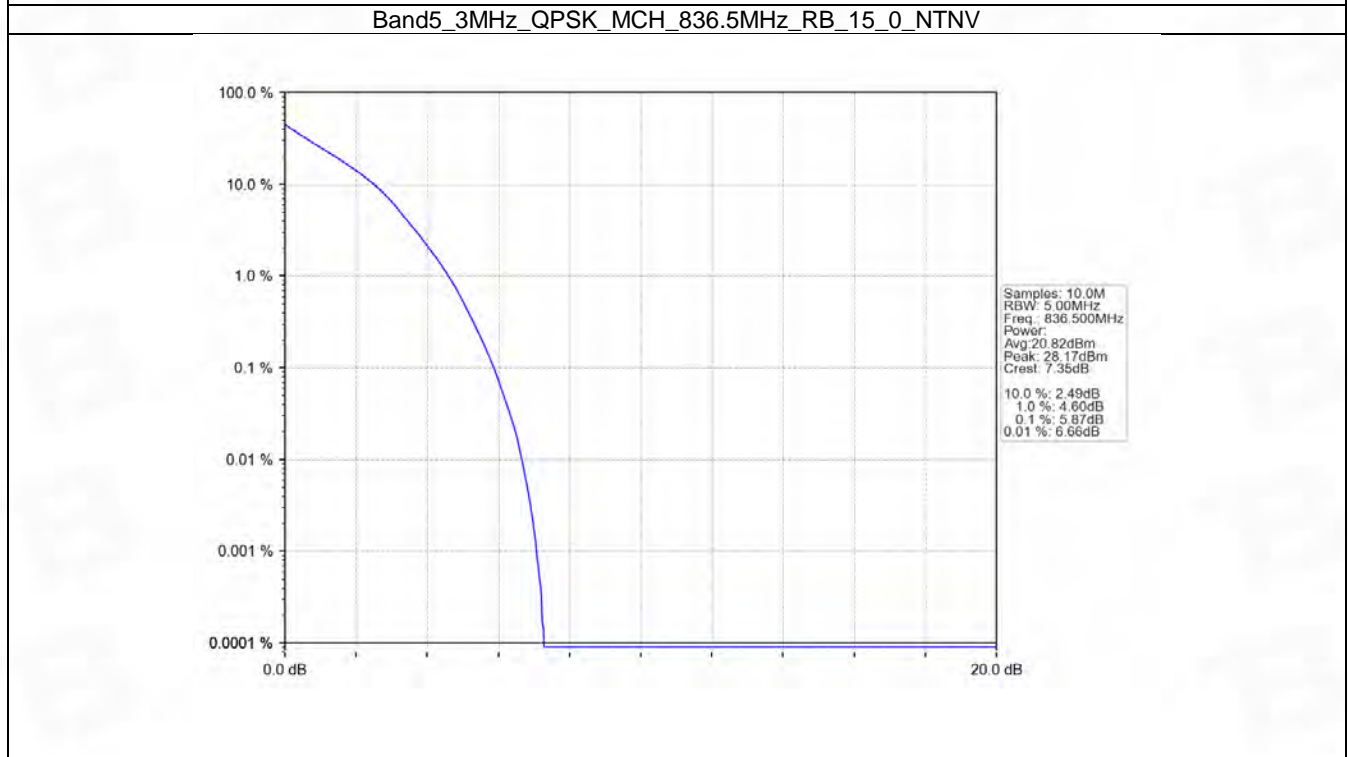
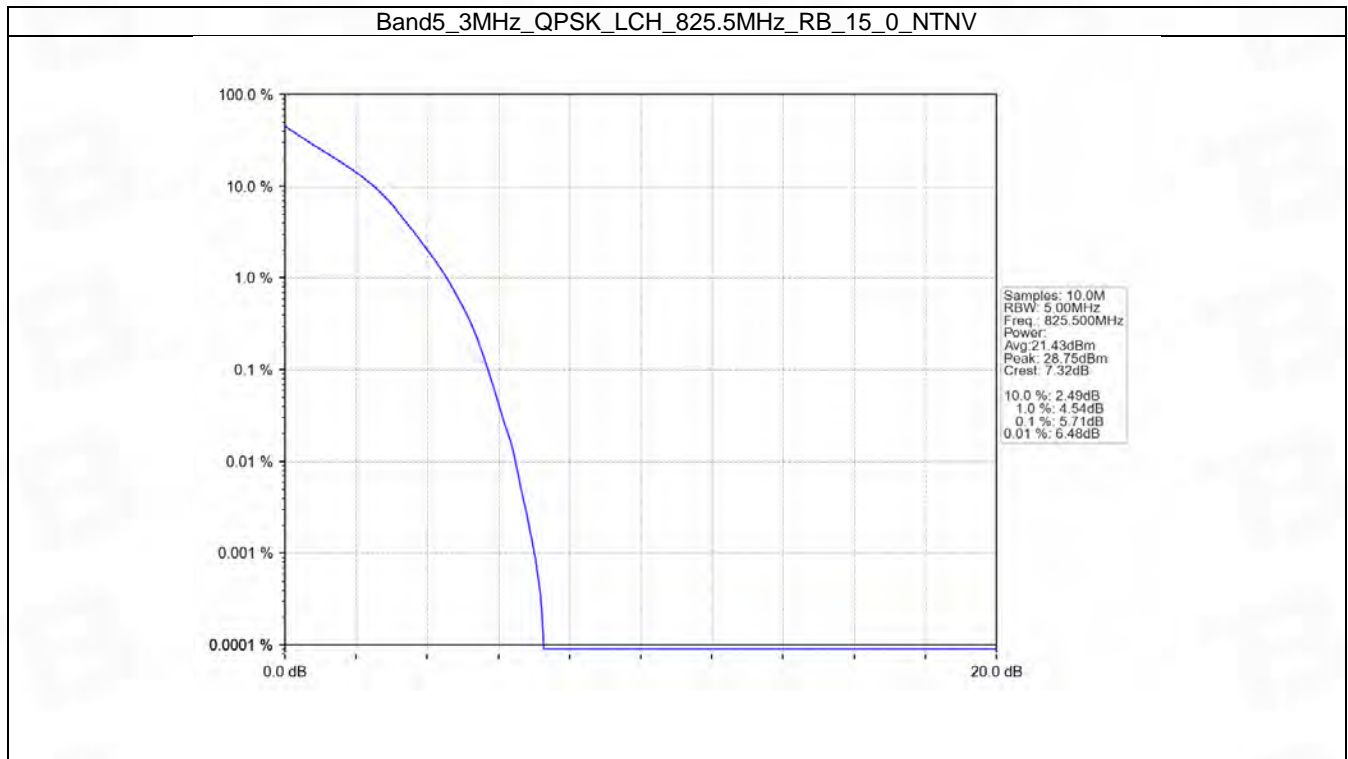
## 5.2 B5\_3MHz

### 5.2.1 Test Result

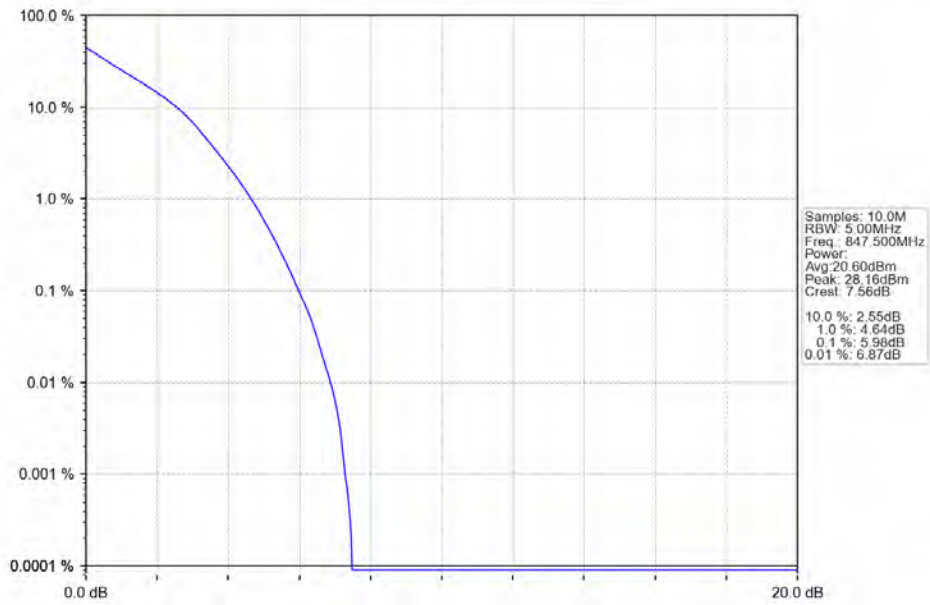
Band: 5 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.71	<=13	Pass
	836.5	15	0	5.87	<=13	Pass
	847.5	15	0	5.98	<=13	Pass
16QAM	825.5	15	0	6.51	<=13	Pass
	836.5	15	0	6.69	<=13	Pass
	847.5	15	0	6.75	<=13	Pass



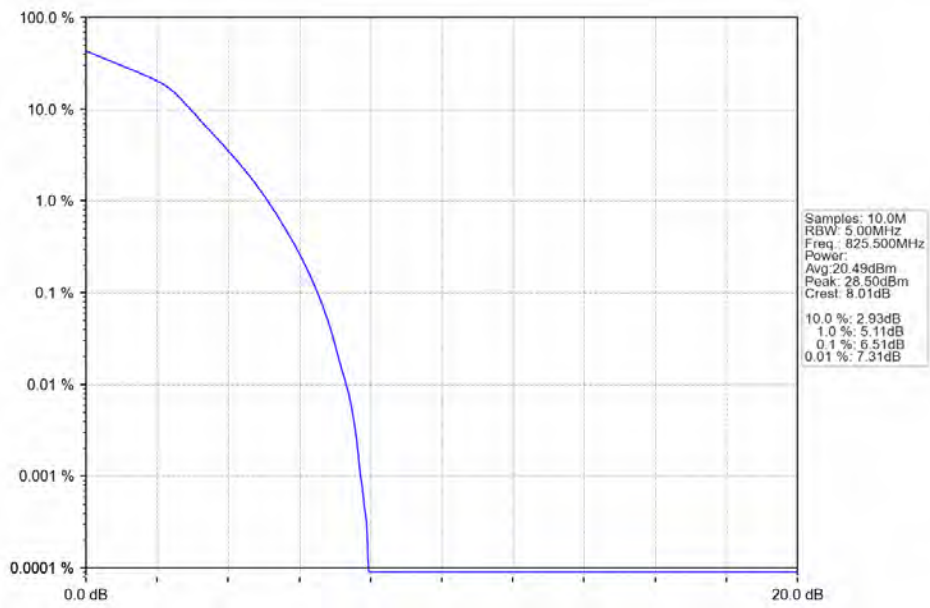
## 5.2.2 Test Graph



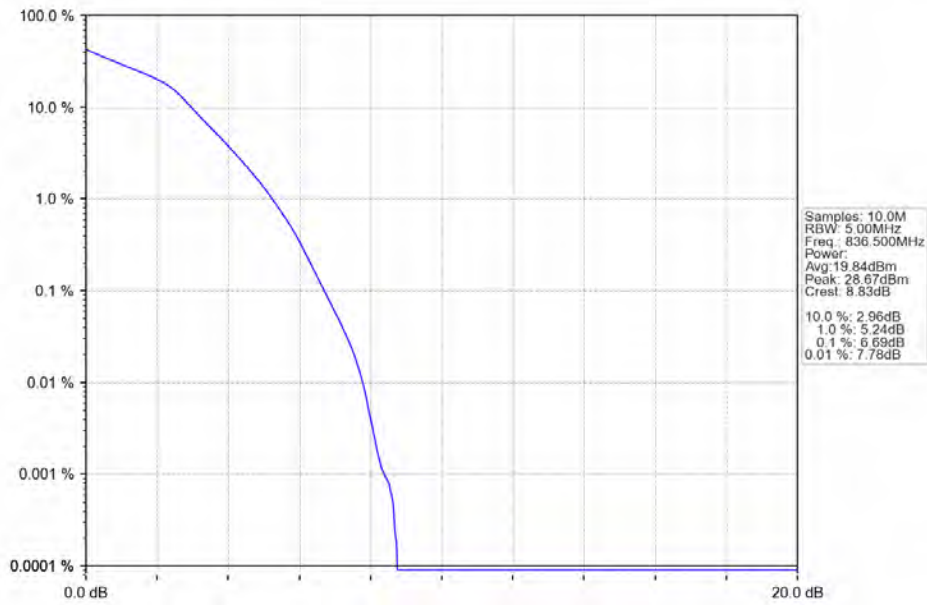
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



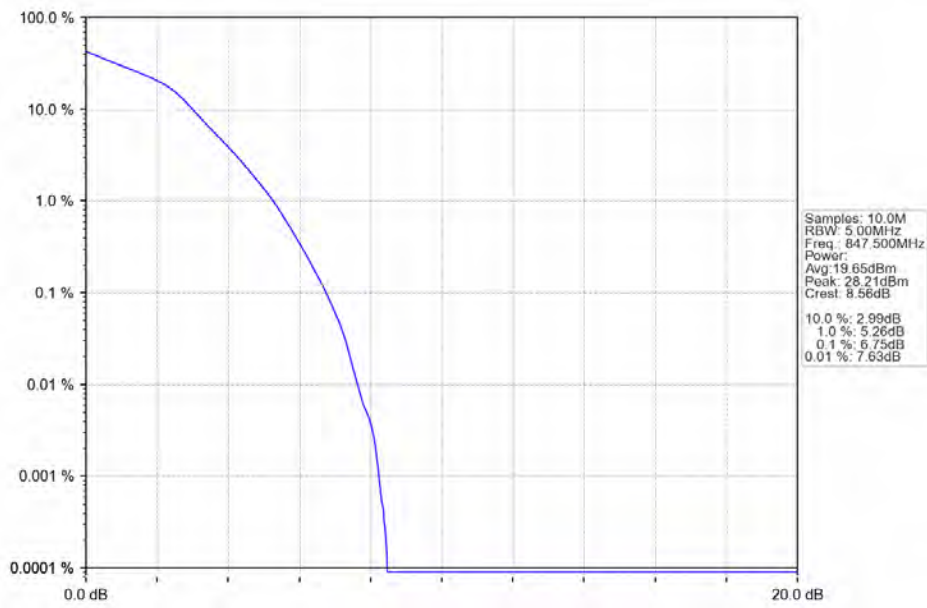
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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



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

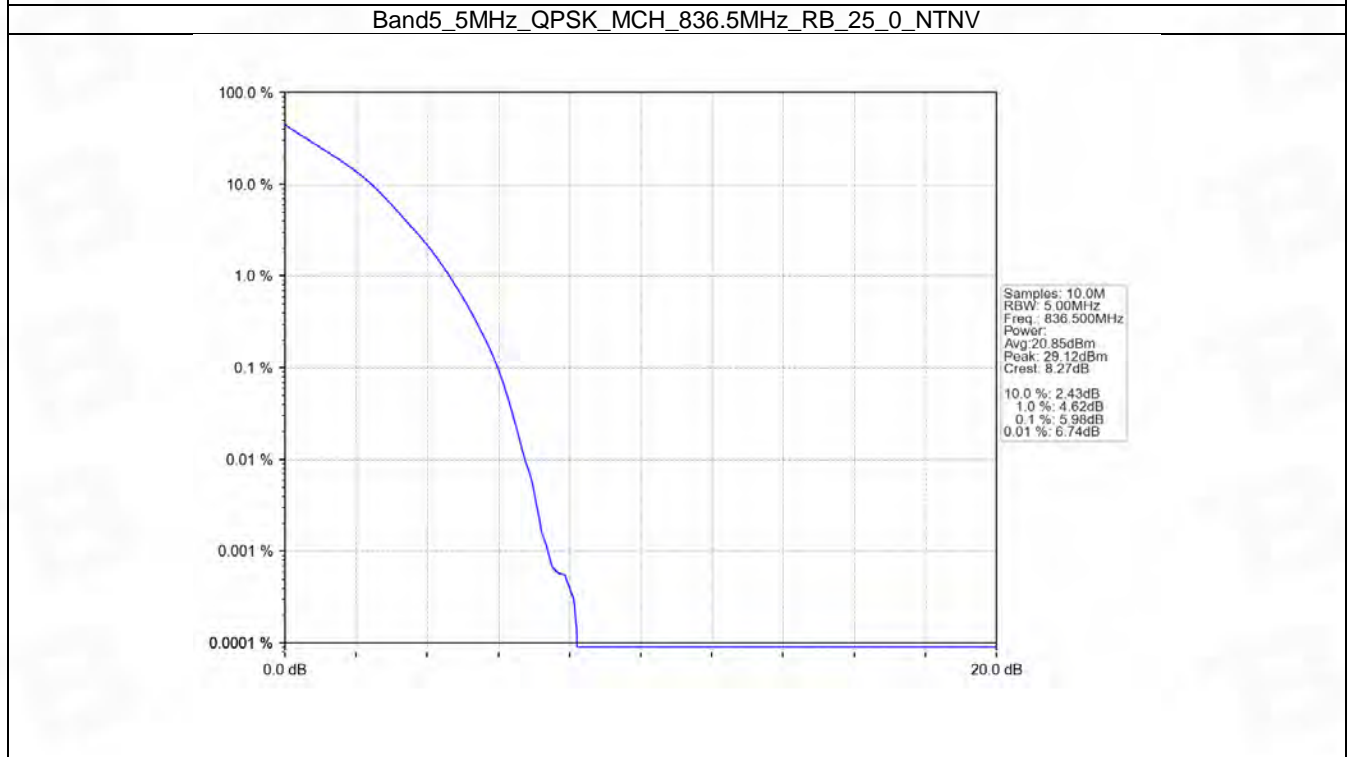
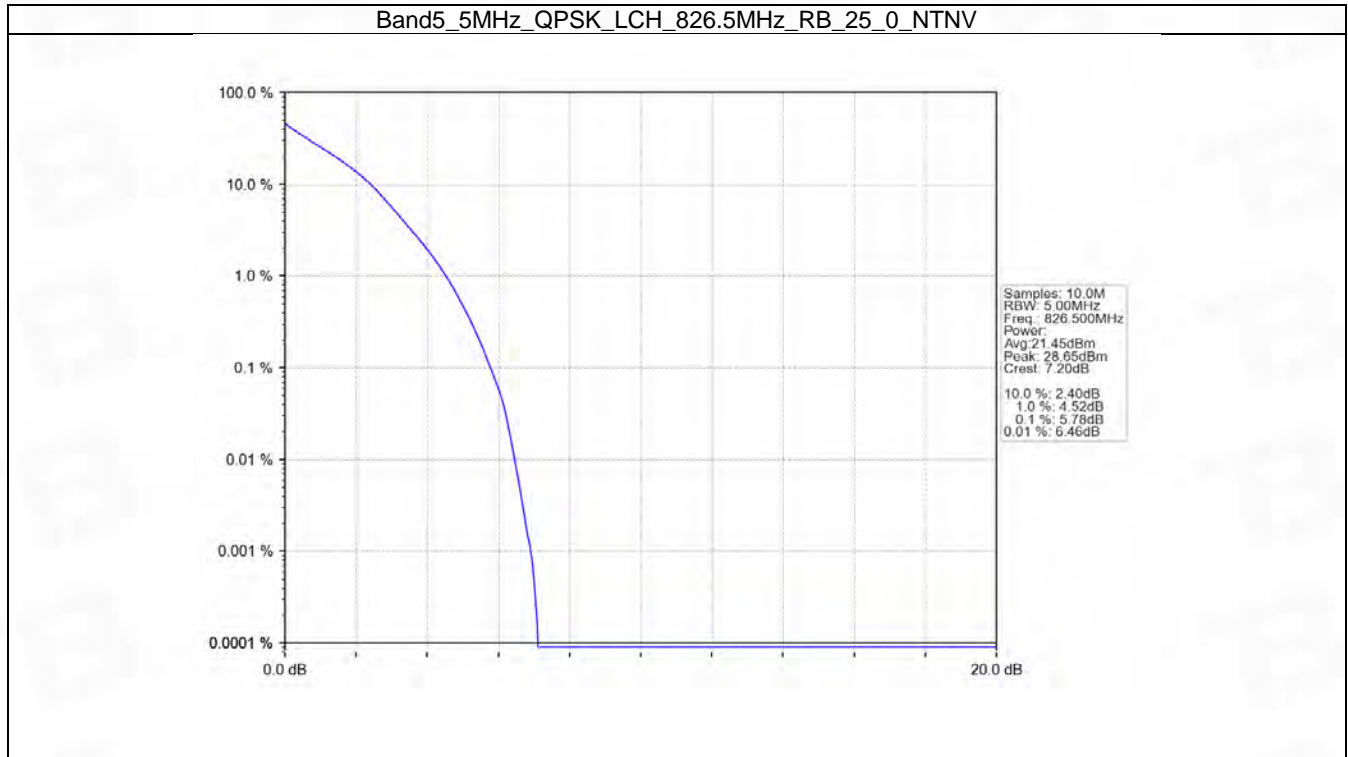


## 5.3 B5\_5MHz

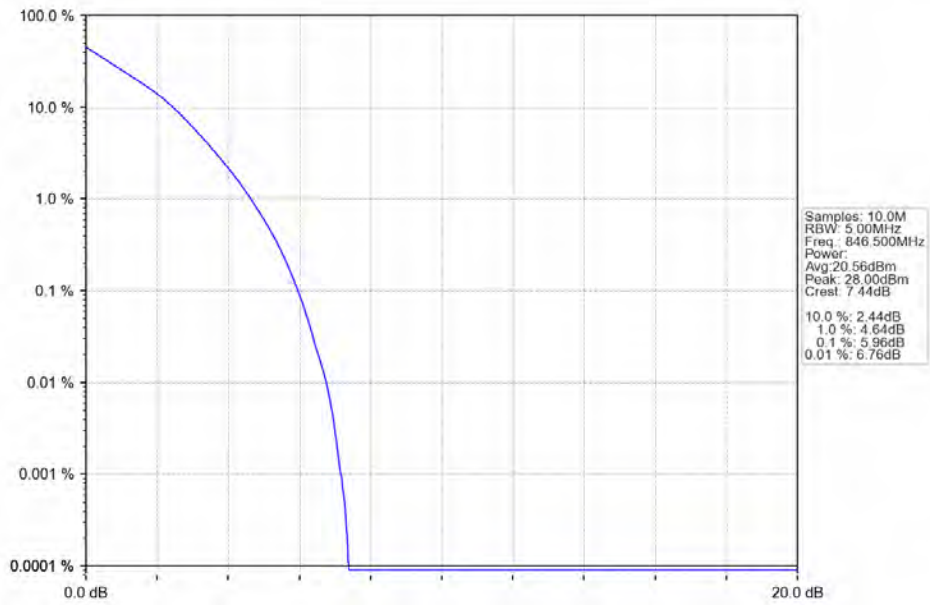
### 5.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.78	<=13	Pass
	836.5	25	0	5.98	<=13	Pass
	846.5	25	0	5.96	<=13	Pass
16QAM	826.5	25	0	6.49	<=13	Pass
	836.5	25	0	6.65	<=13	Pass
	846.5	25	0	6.61	<=13	Pass

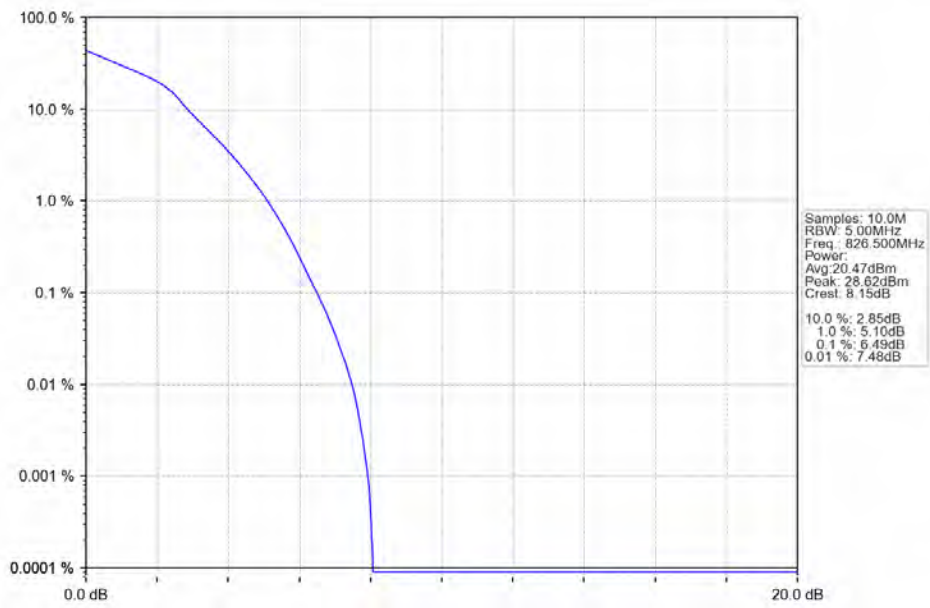
### 5.3.2 Test Graph



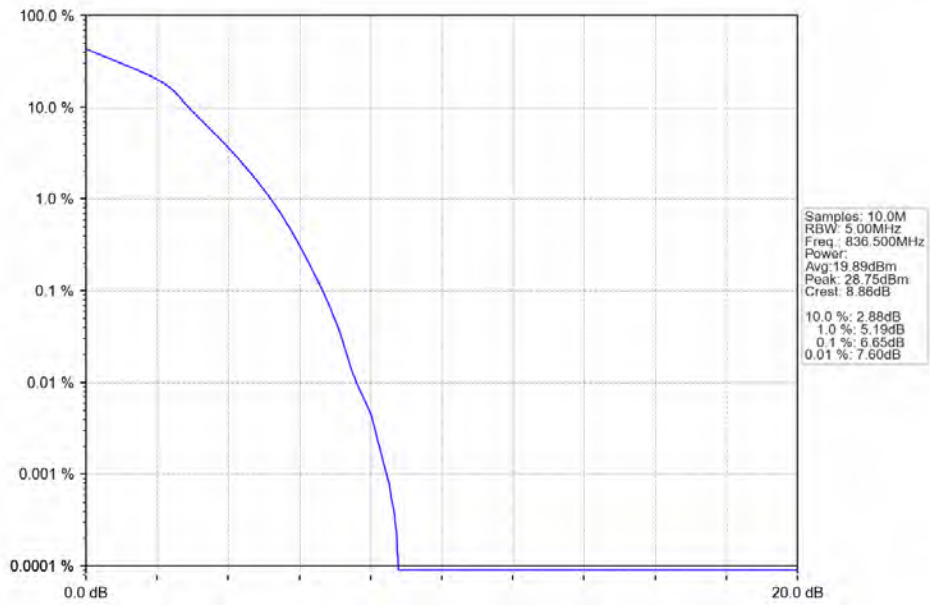
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



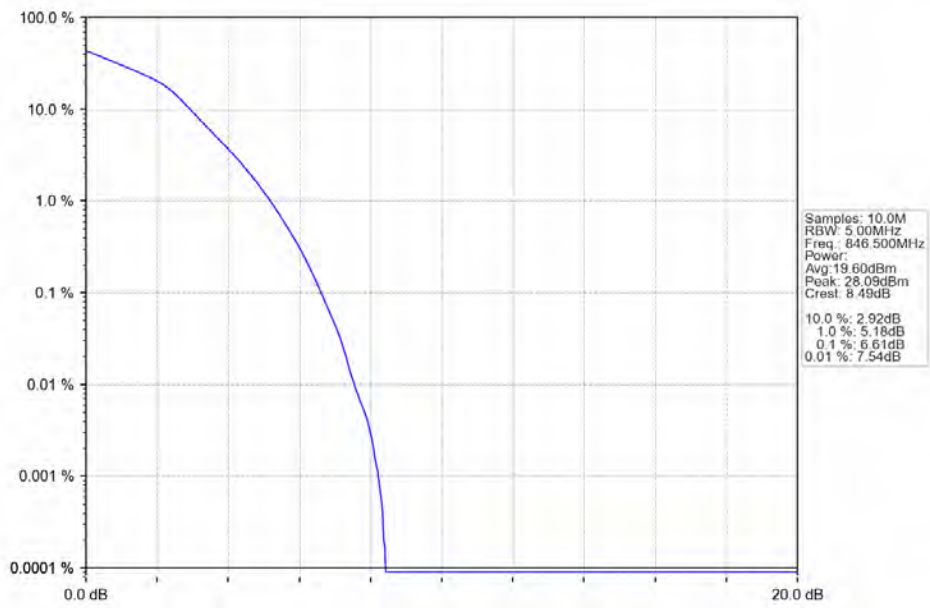
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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



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



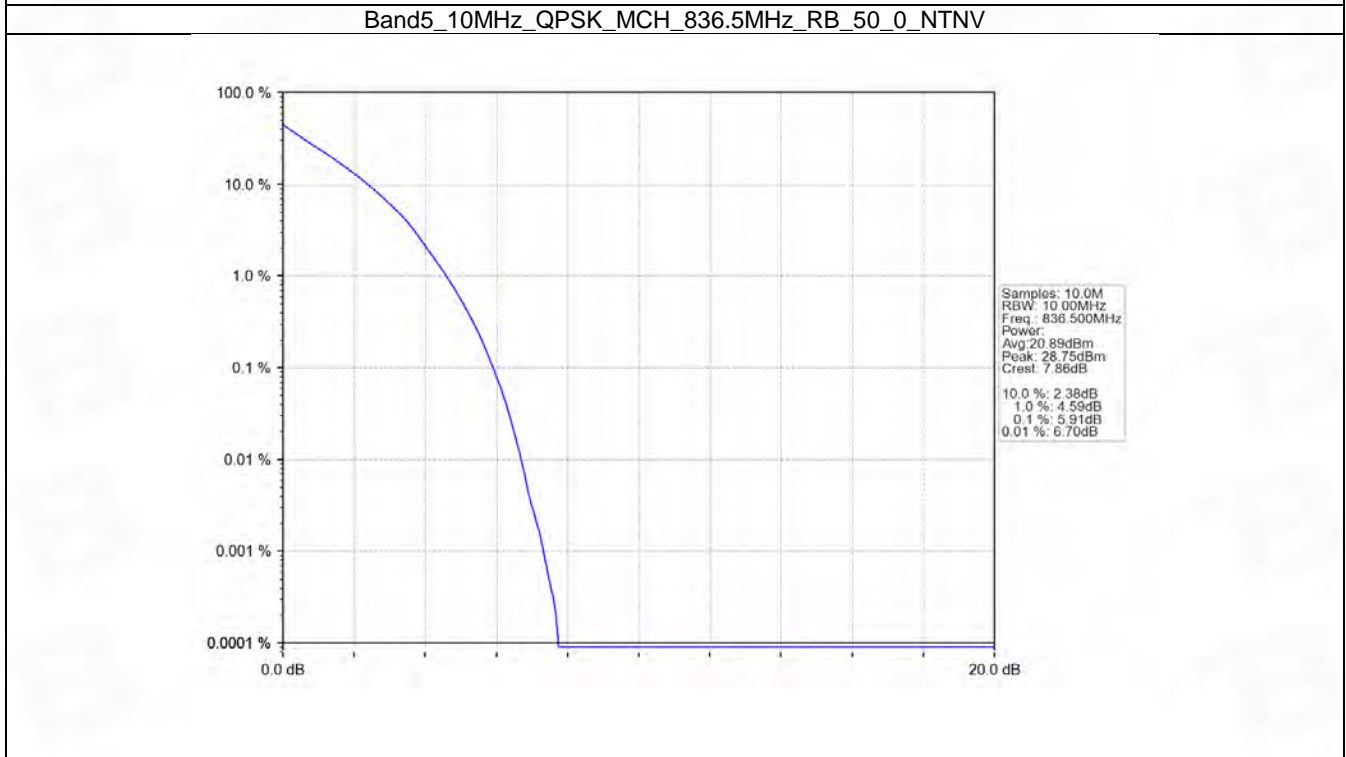
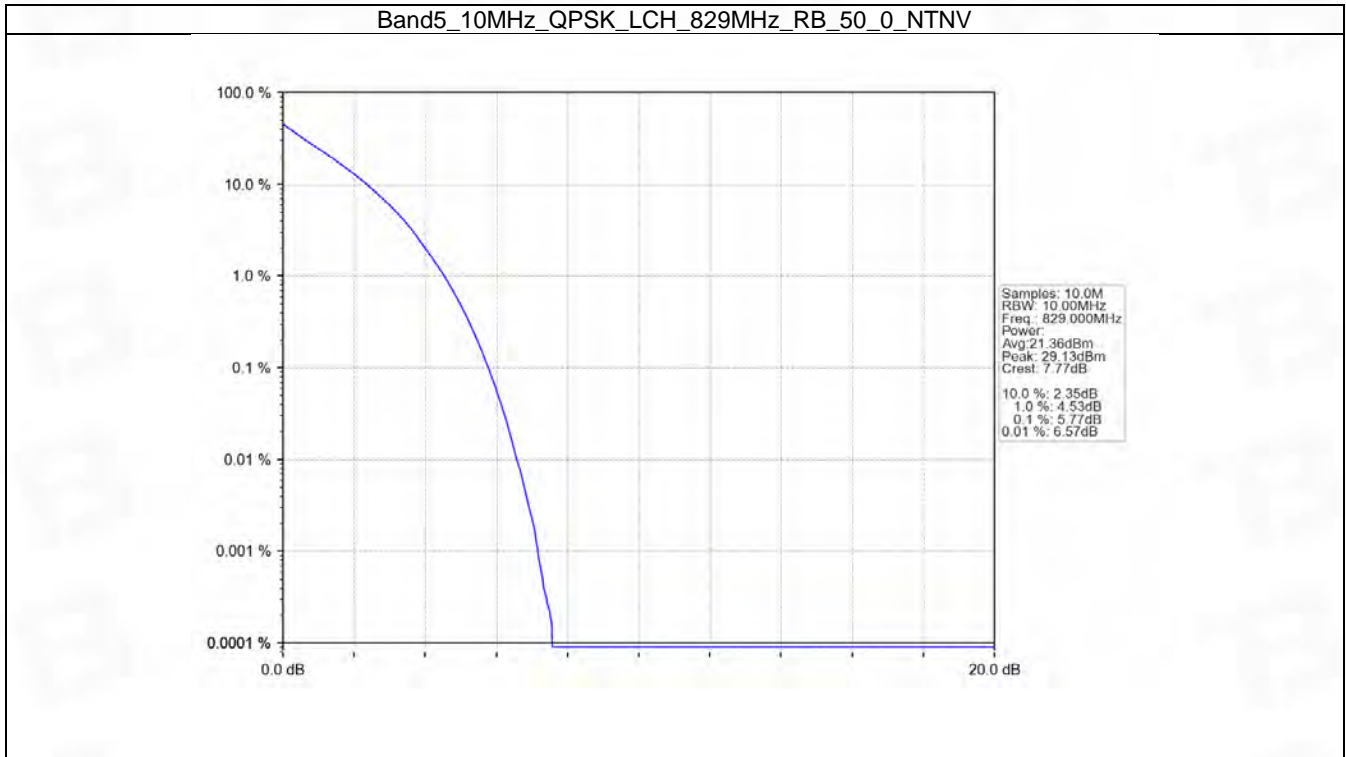
## 5.4 B5\_10MHz

### 5.4.1 Test Result

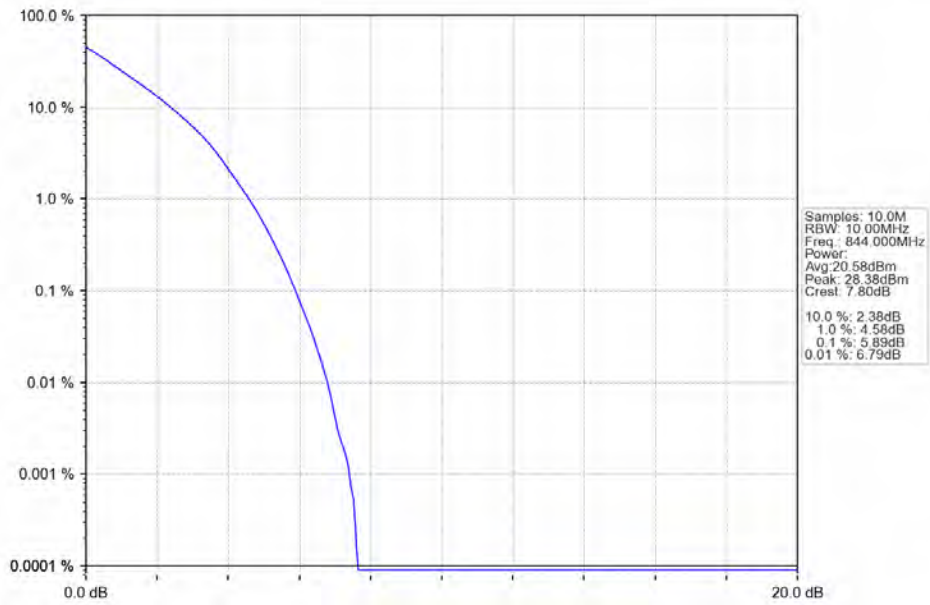
Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.77	<=13	Pass
	836.5	50	0	5.91	<=13	Pass
	844	50	0	5.89	<=13	Pass
16QAM	829	50	0	6.54	<=13	Pass
	836.5	50	0	6.67	<=13	Pass
	844	50	0	6.59	<=13	Pass



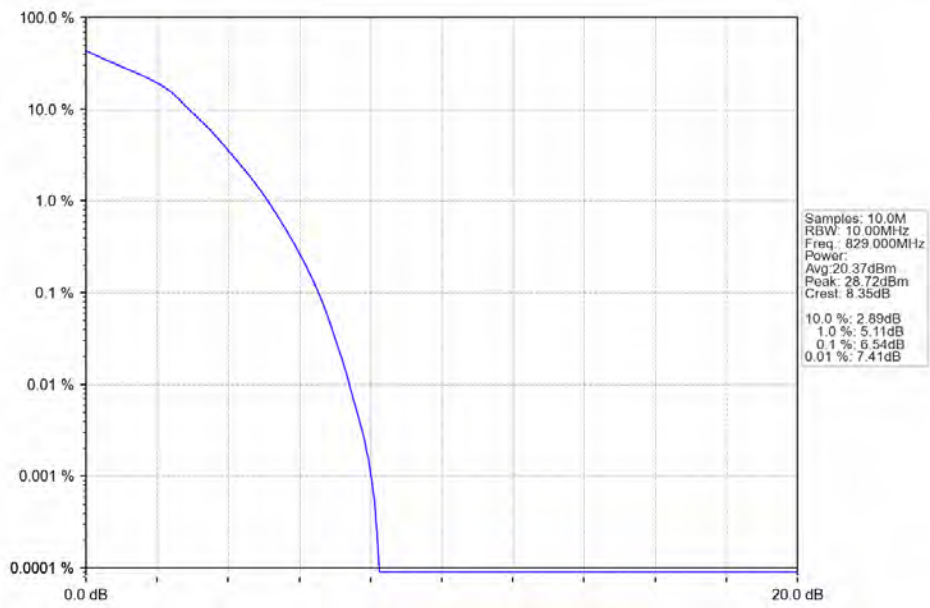
### 5.4.2 Test Graph



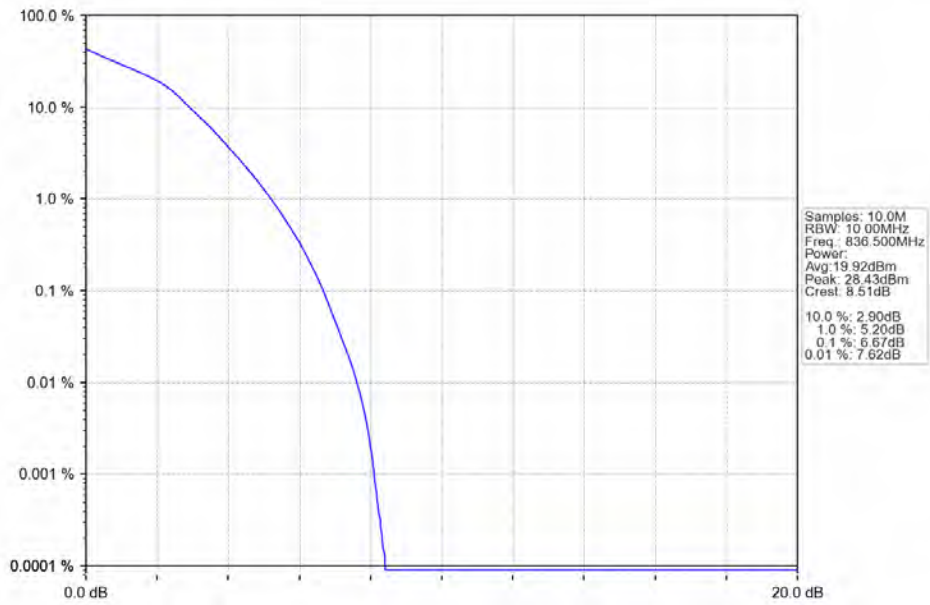
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



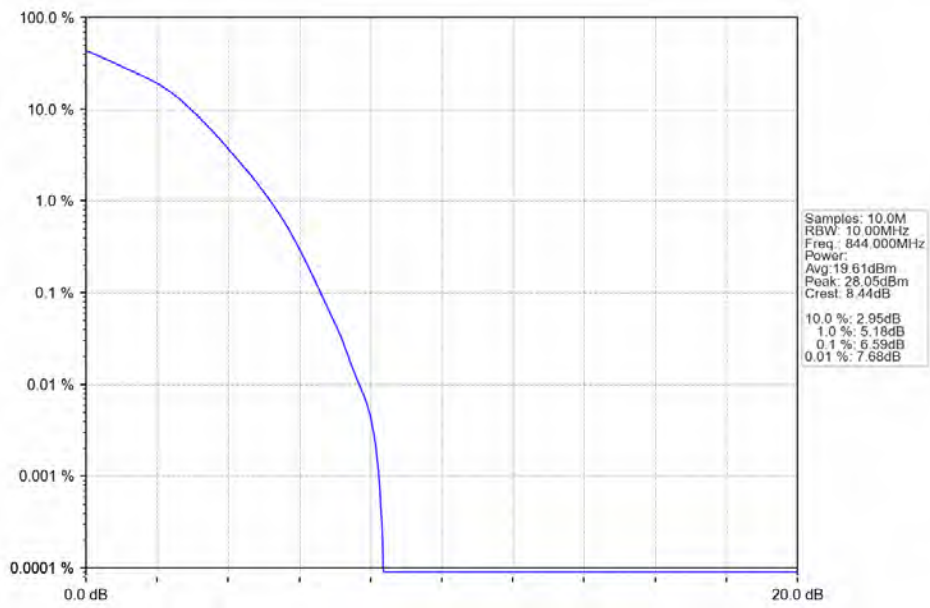
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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



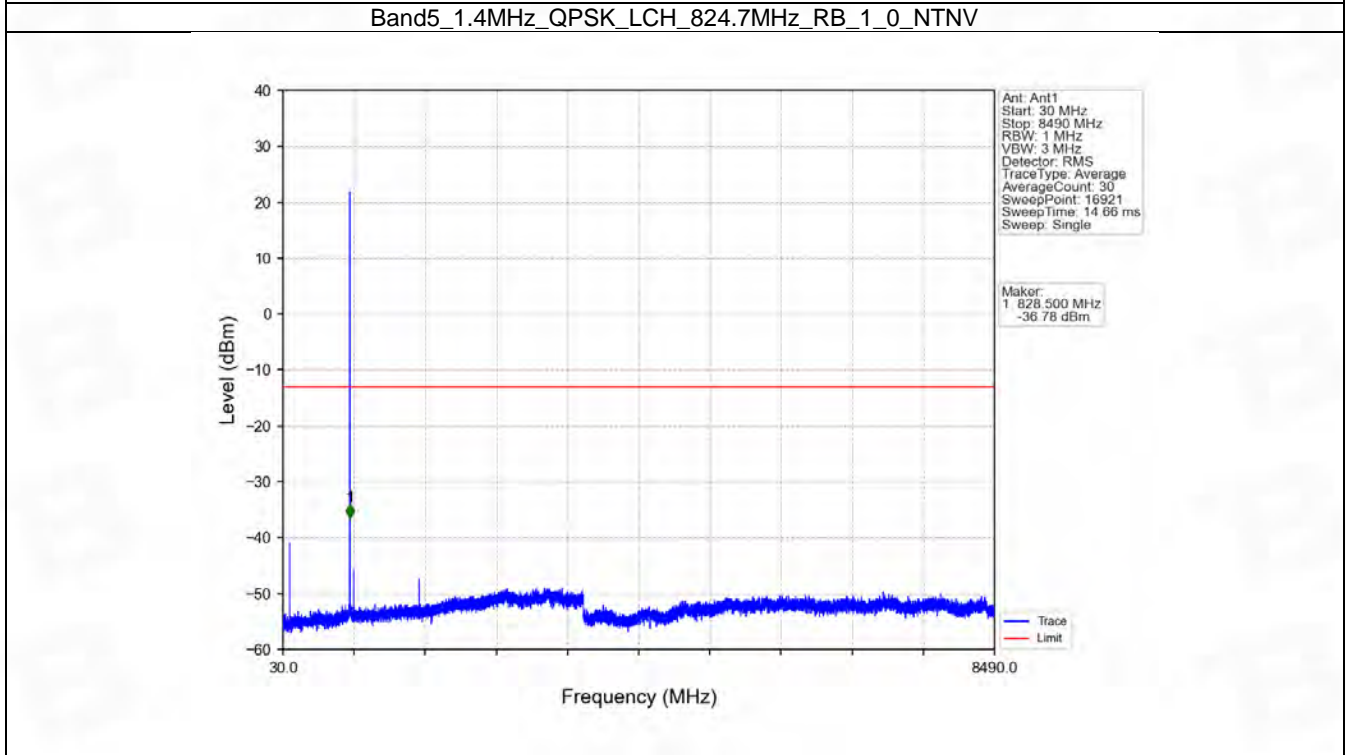
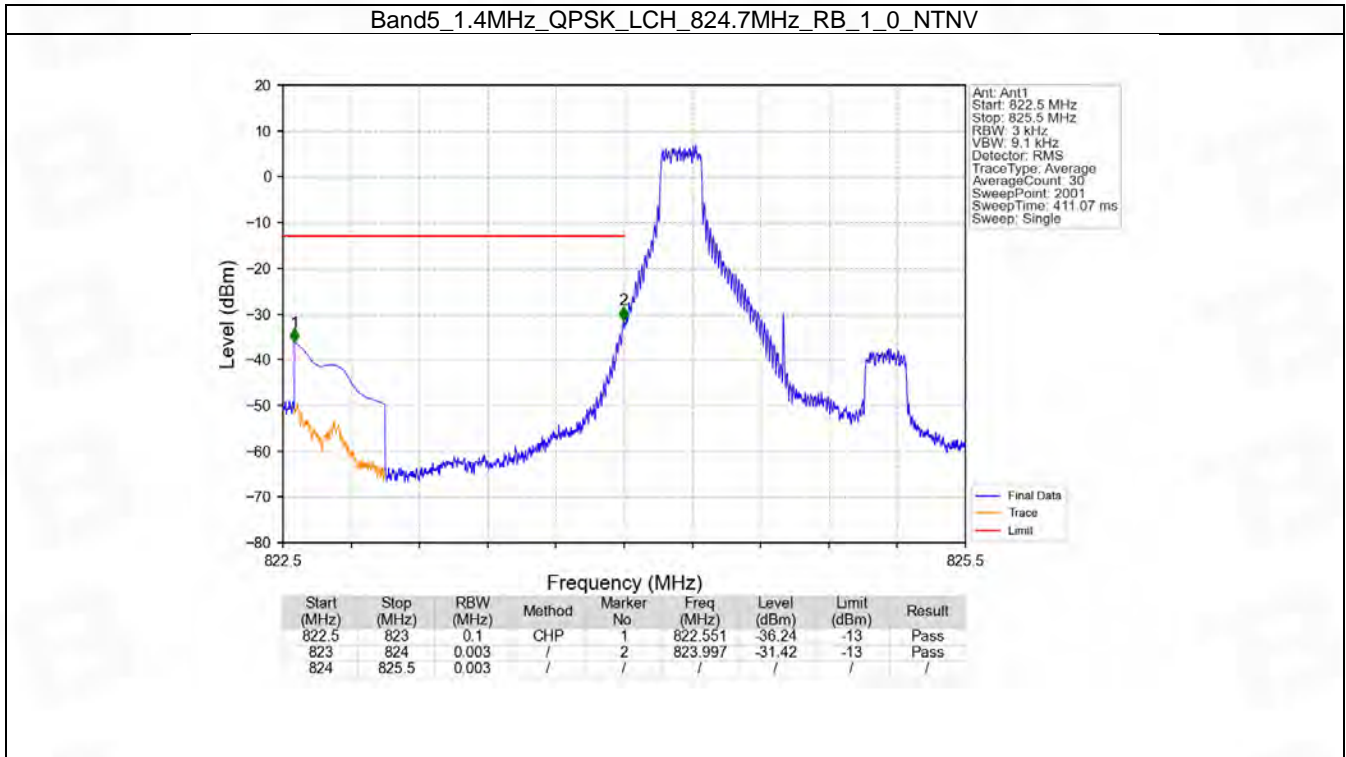
## 6. Spurious Emission

### 6.1 B5\_1.4MHz

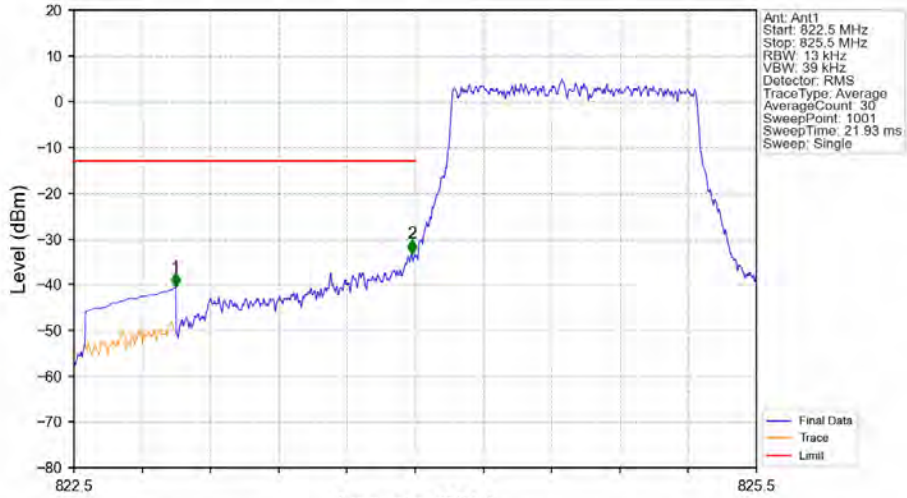
#### 6.1.1 Test Result

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	
		848.3	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	
		848.3	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

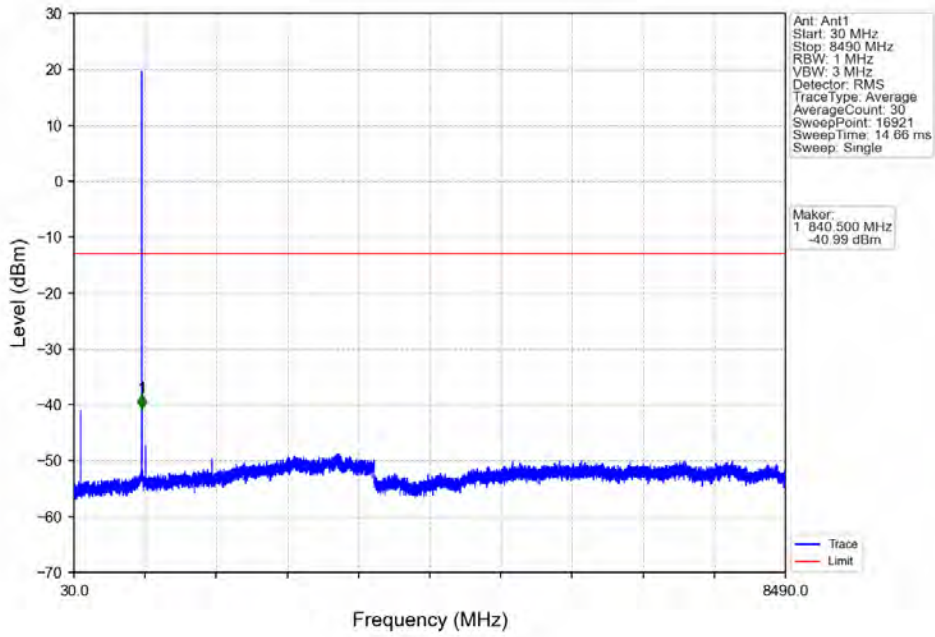


Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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	-40.57	-13	Pass
823	824	0.013	/	2	823.985	-33.20	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

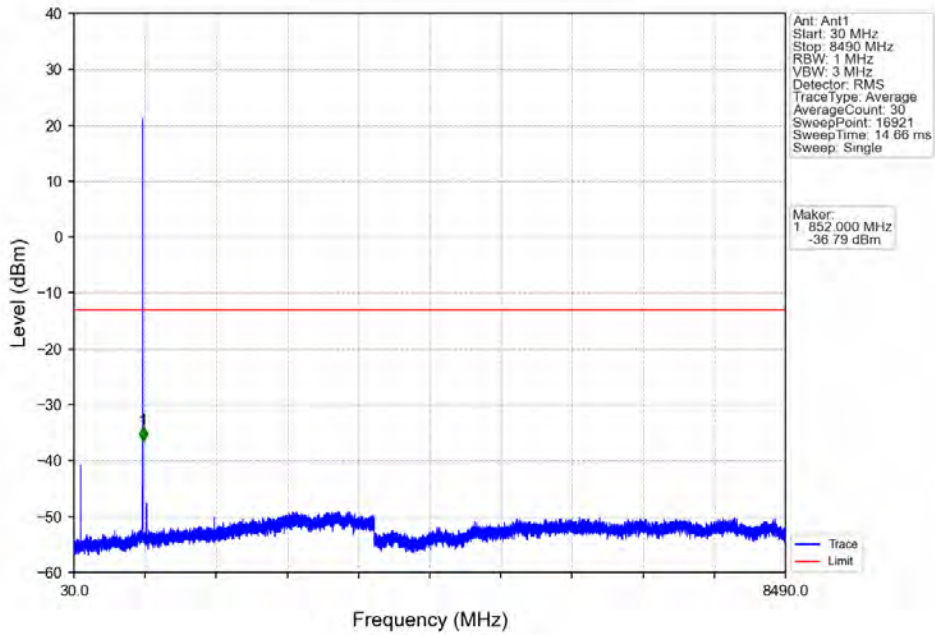
Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



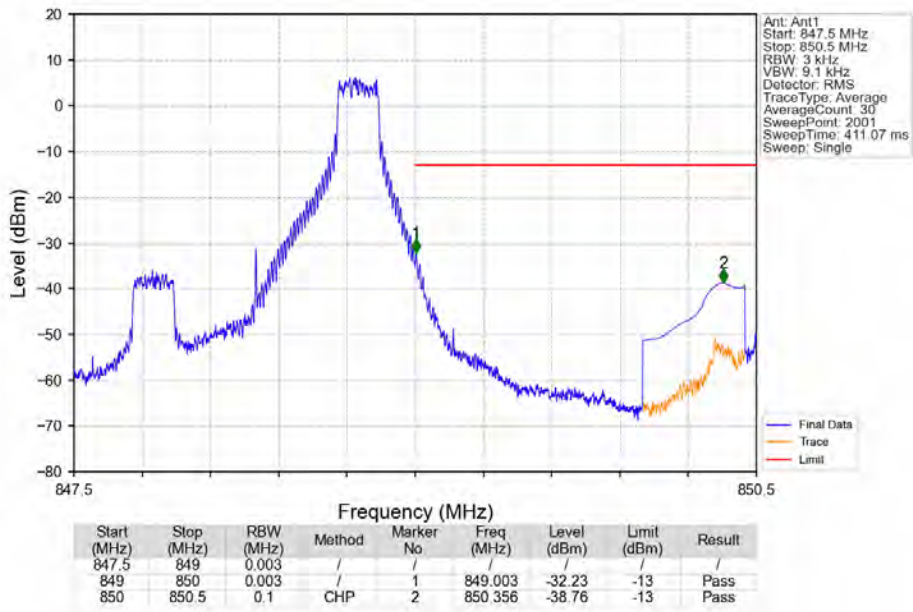
Ant: Ant1  
 Start: 840.0 MHz  
 Stop: 8490.0 MHz  
 RBW: 1 MHz  
 VBW: 3 MHz  
 Detector: RMS  
 TraceType: Average  
 AverageCount: 30  
 SweepPoint: 16921  
 SweepTime: 14.66 ms  
 Sweep: Single

Marker:  
 1 840.500 MHz  
 -40.99 dBm

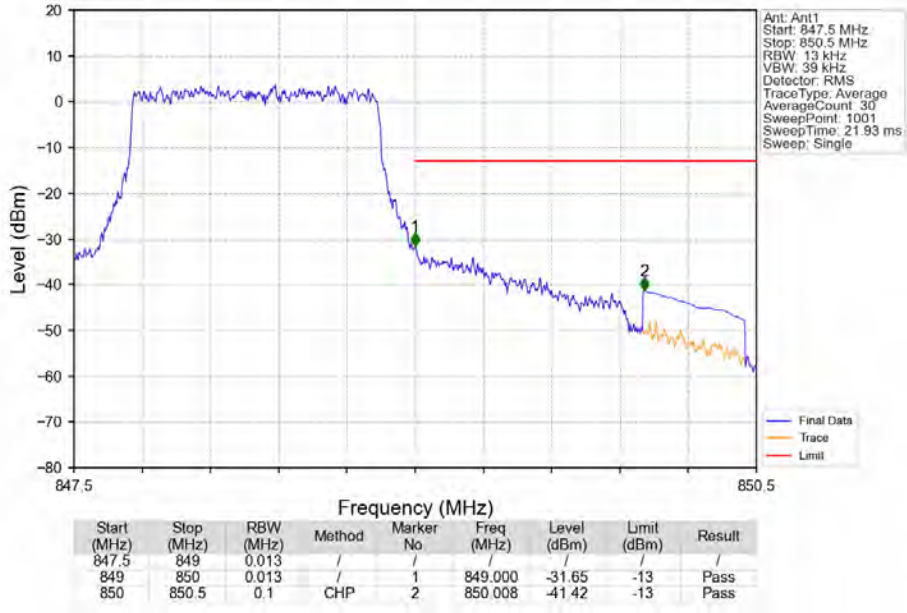
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



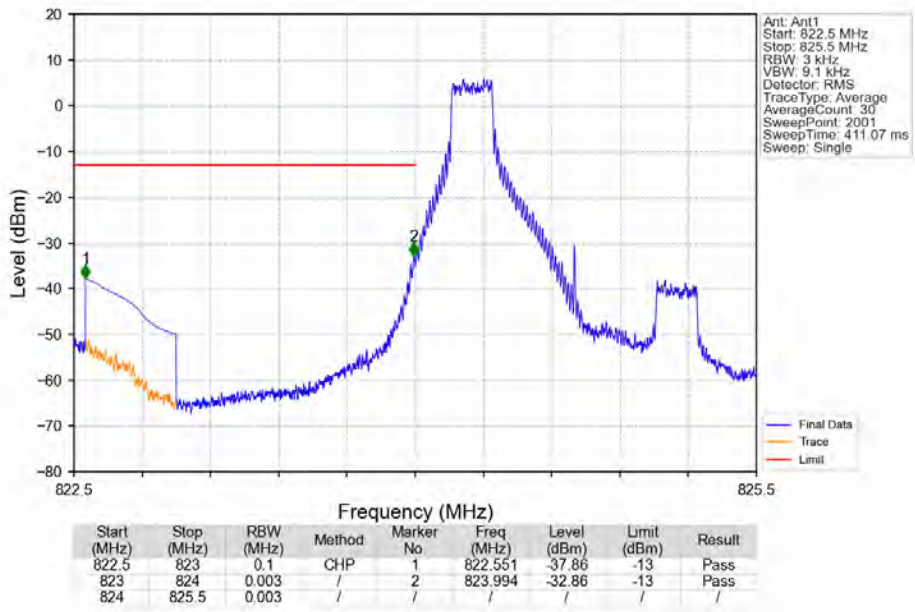
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



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

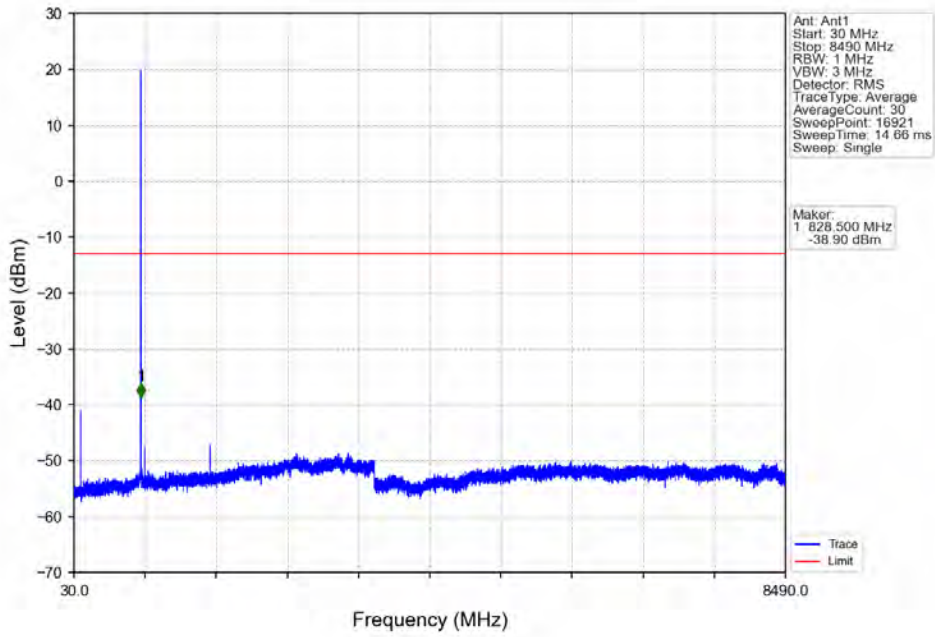


Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV

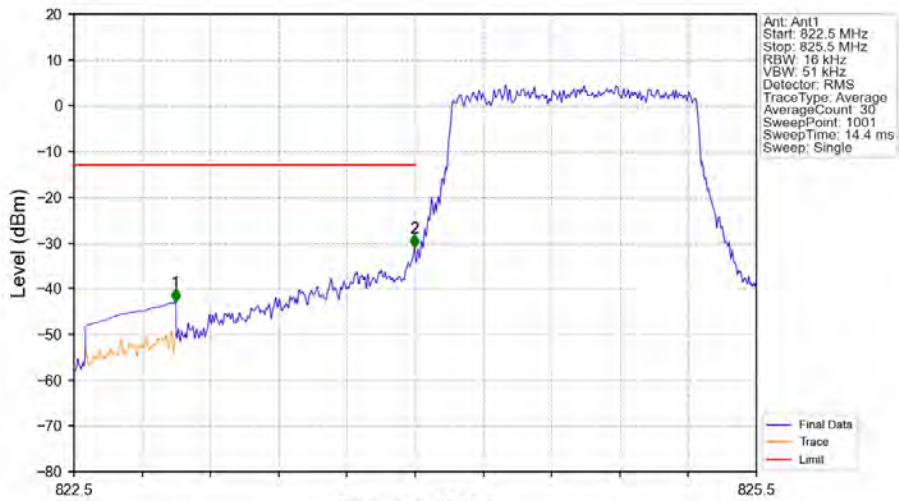




Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV

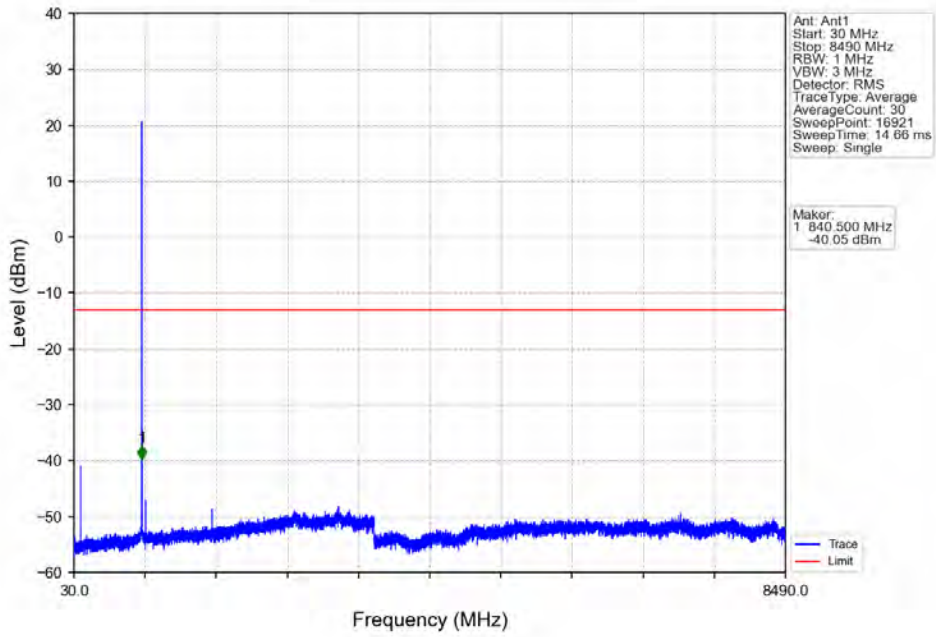


Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

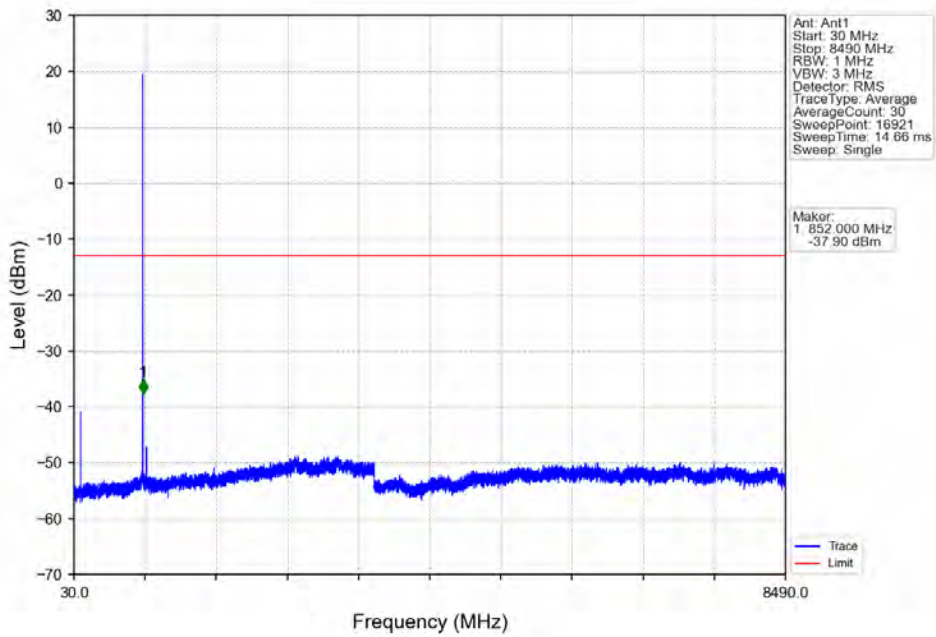


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-42.98	-13	Pass
823	824	0.016	/	2	823.997	-31.18	-13	Pass
824	825.5	0.016	/	/	/	/	/	/

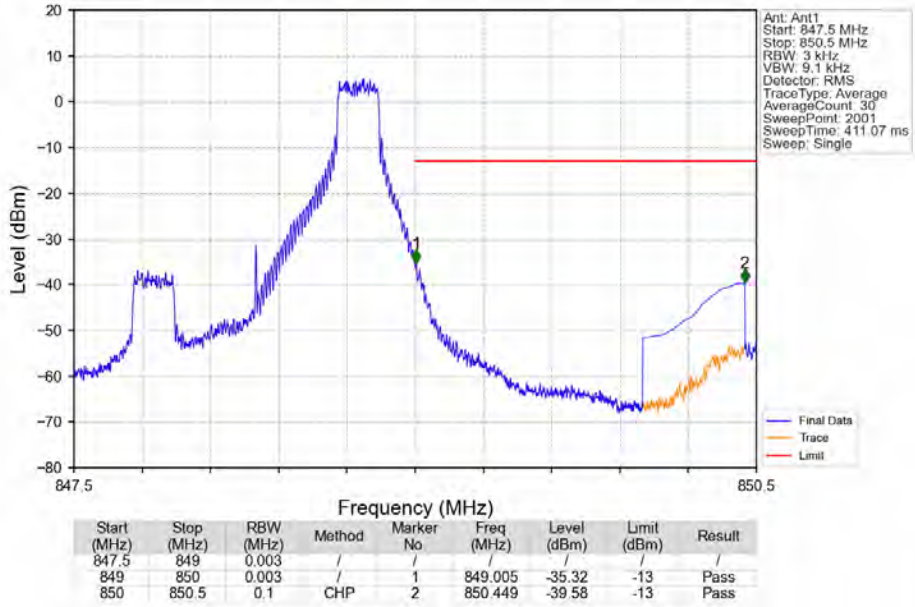
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



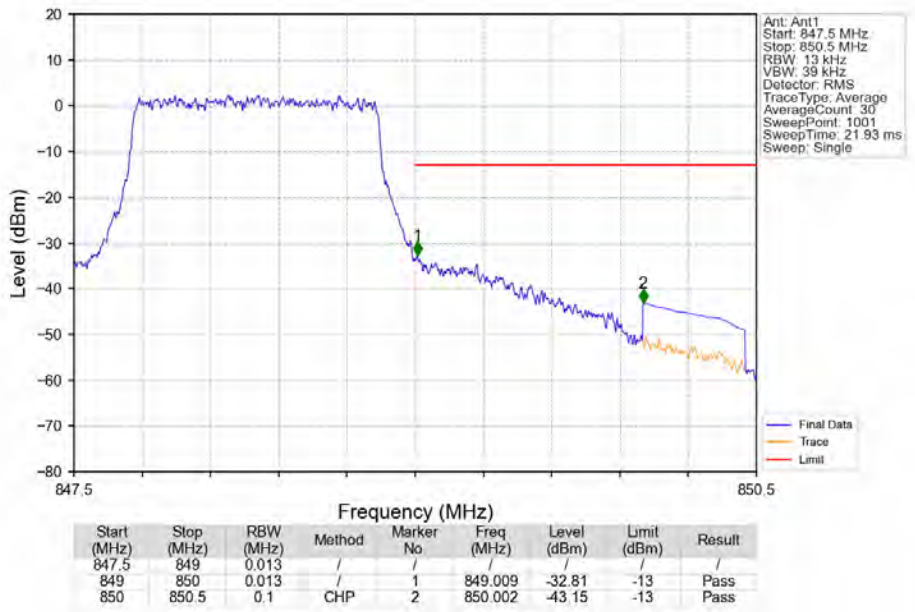
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



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



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

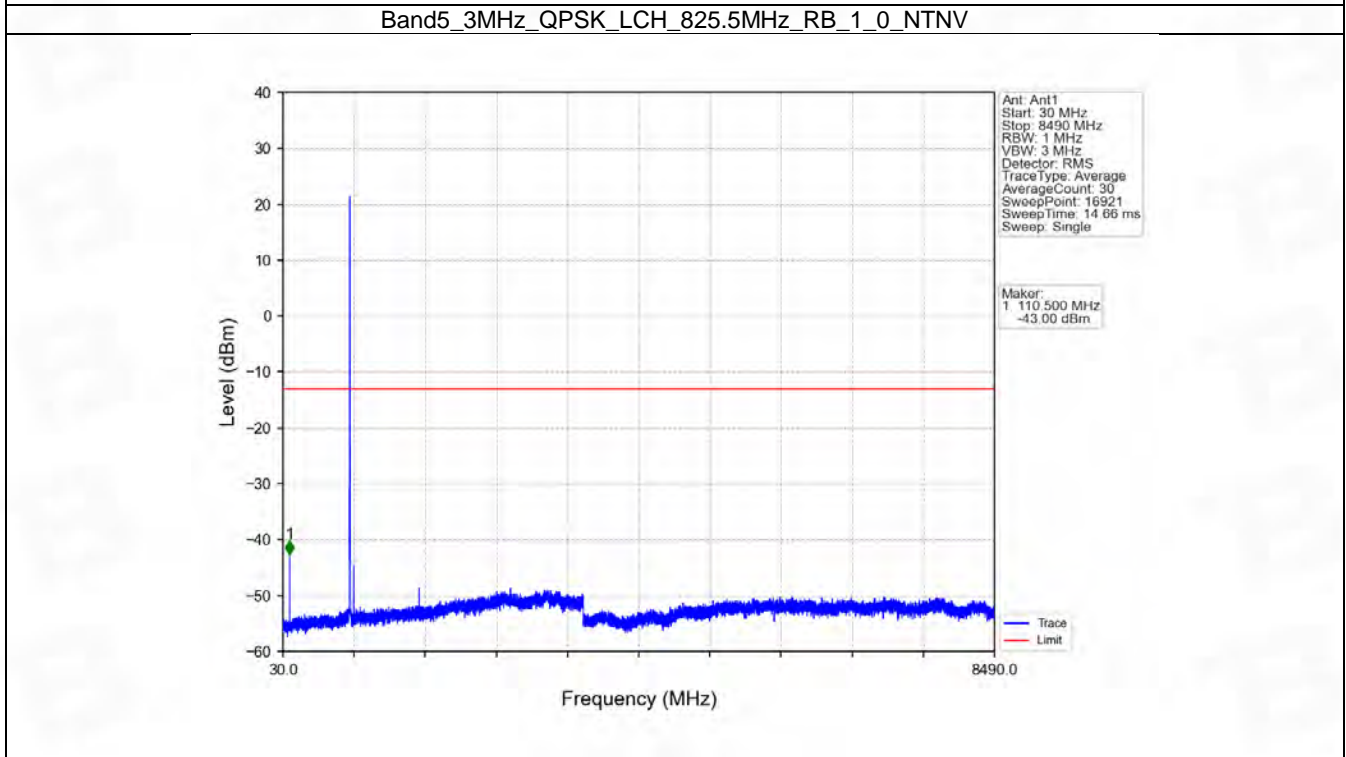
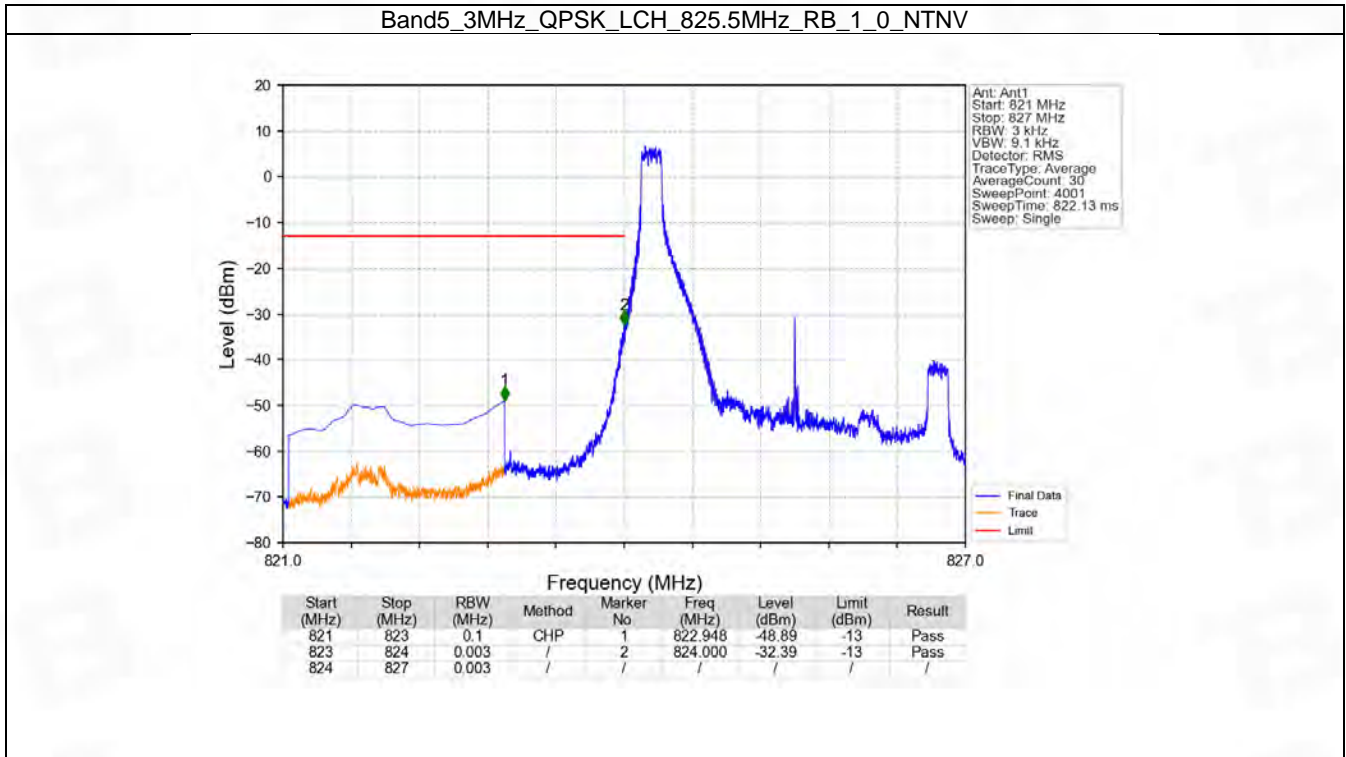


## 6.2 B5\_3MHz

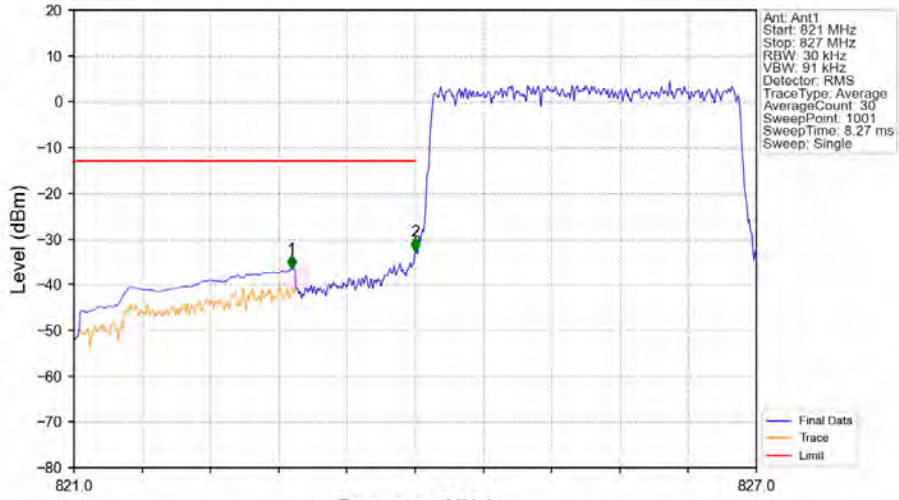
### 6.2.1 Test Result

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
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	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
	836.5	1	0	Refer To Test Graph		Pass
	847.5	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

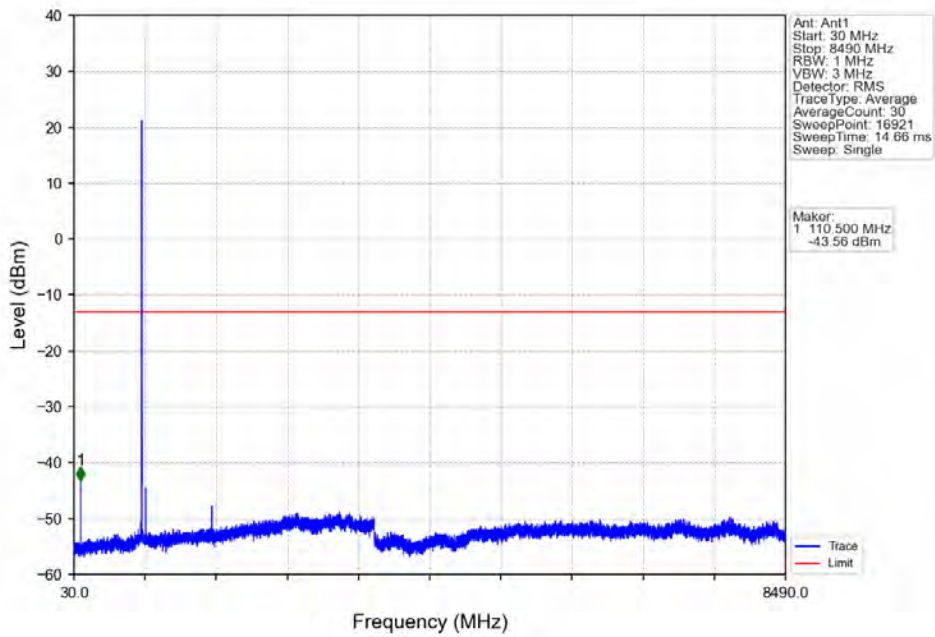


Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

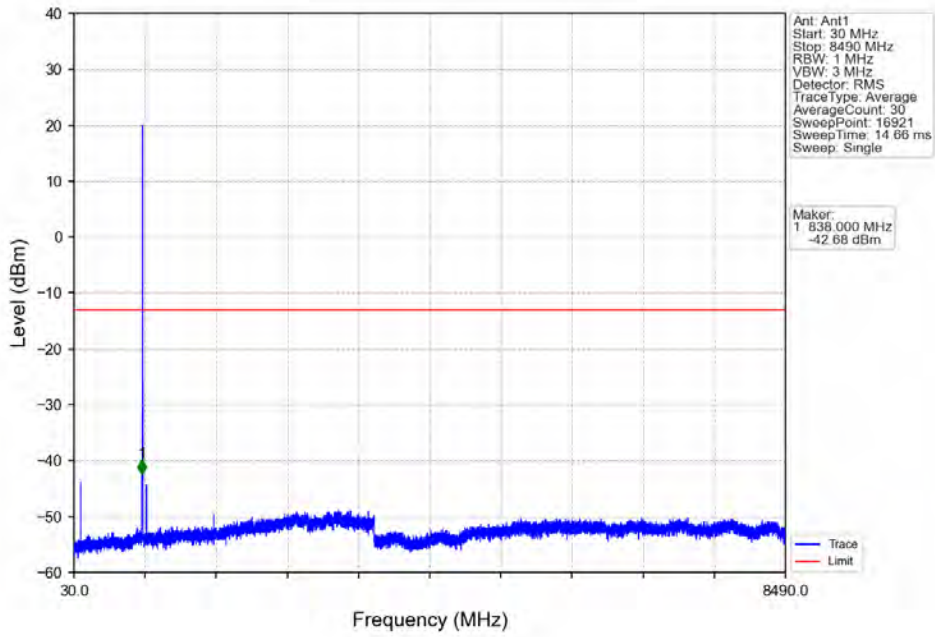


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.914	-36.59	-13	Pass
823	824	0.03	/	2	824.000	-32.74	-13	Pass
824	827	0.03	/	/	/	/	/	/

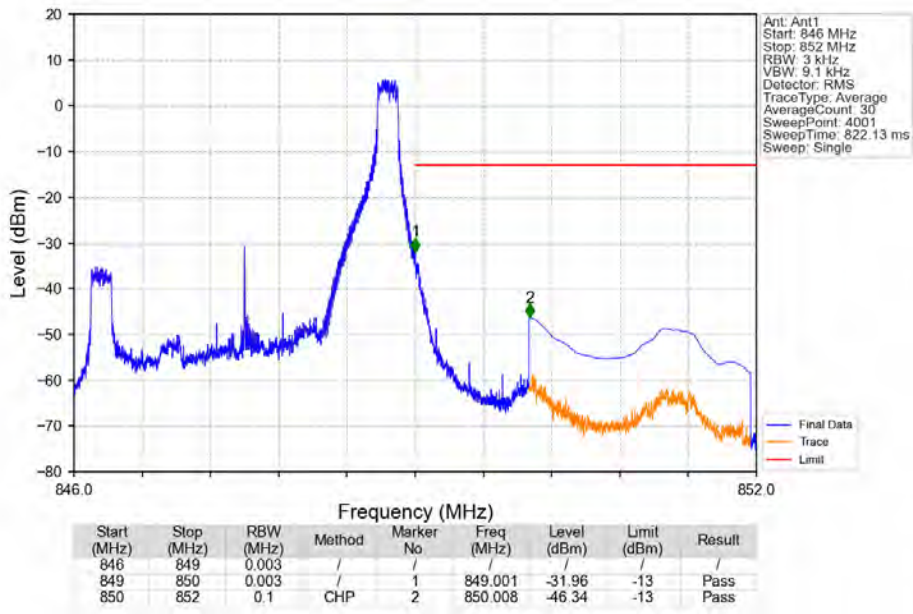
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



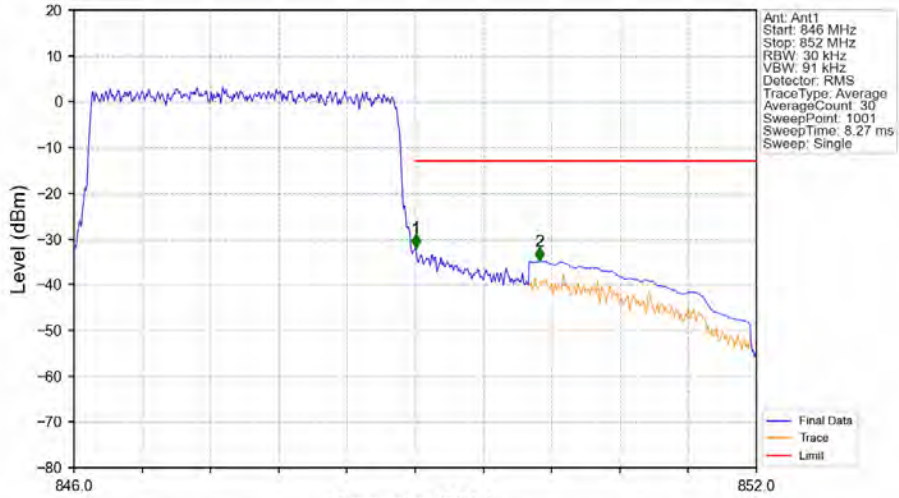
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



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

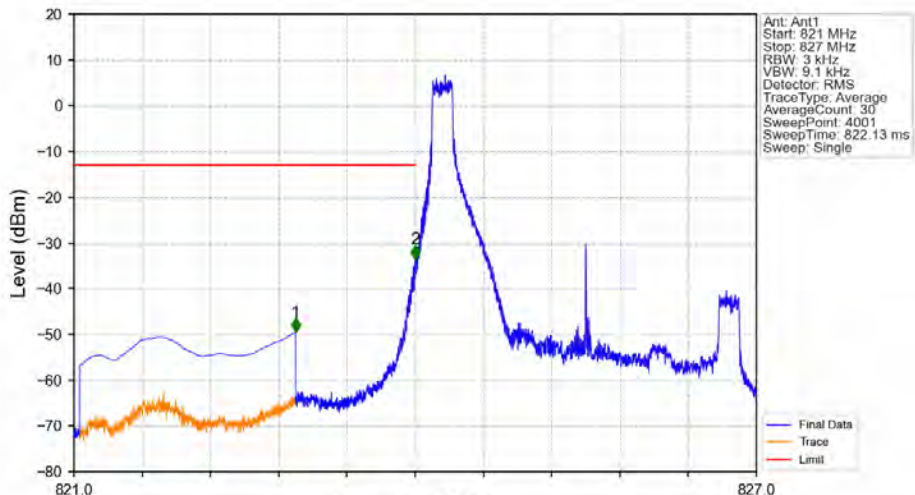


Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	1	849.006	-32.00	-13	Pass
849	850	0.03	/	1	849.006	-32.00	-13	Pass
850	852	0.1	CHP	2	850.092	-34.84	-13	Pass

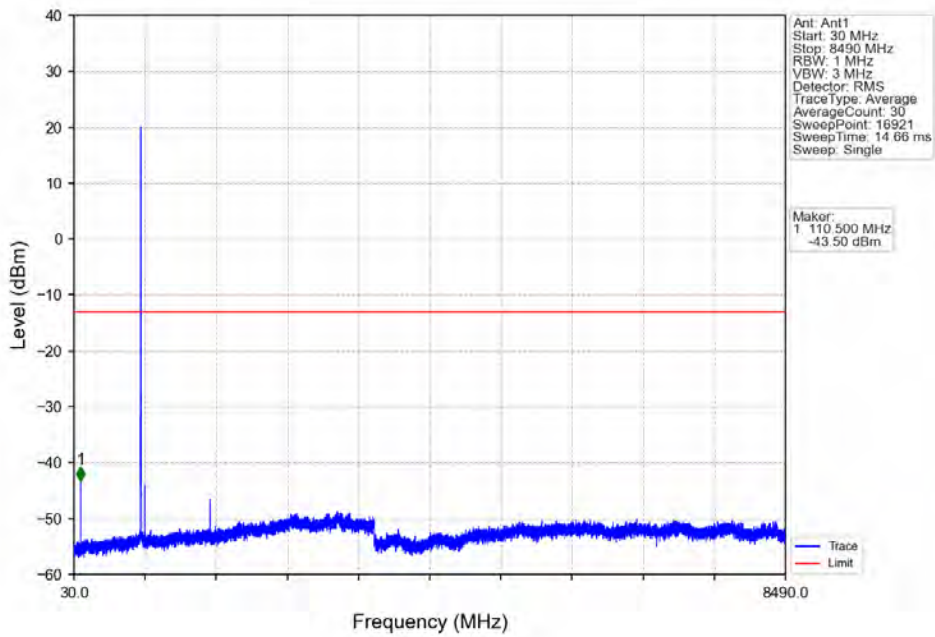
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



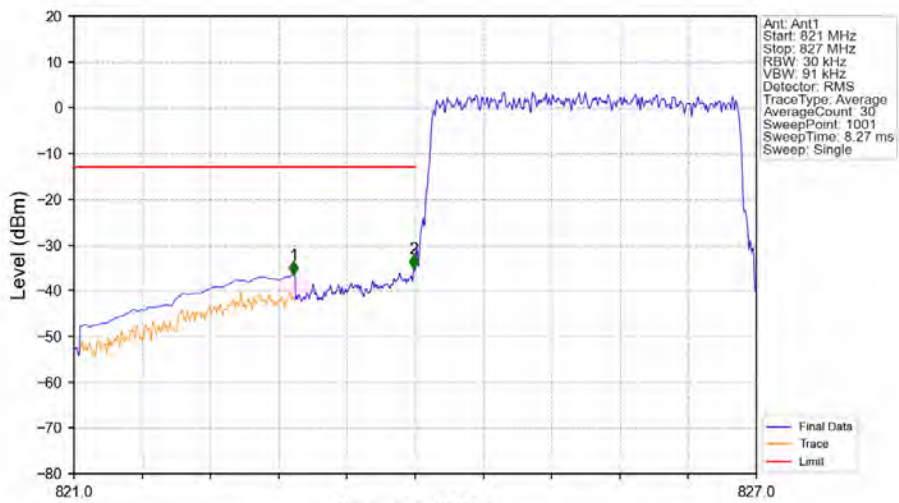
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-49.48	-13	Pass
823	824	0.003	/	2	824.000	-33.54	-13	Pass
824	827	0.003	/	/	/	/	/	/



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

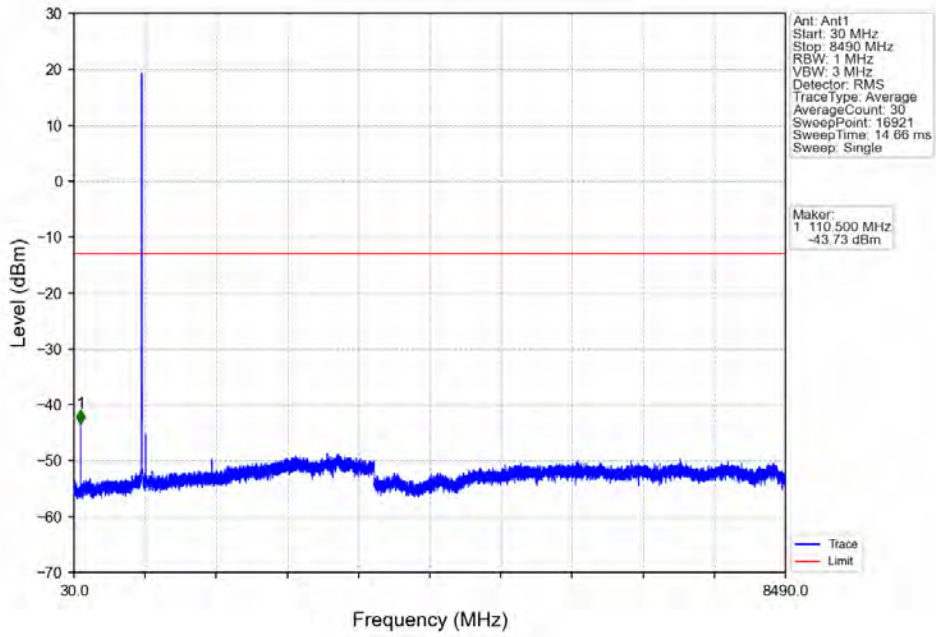


Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

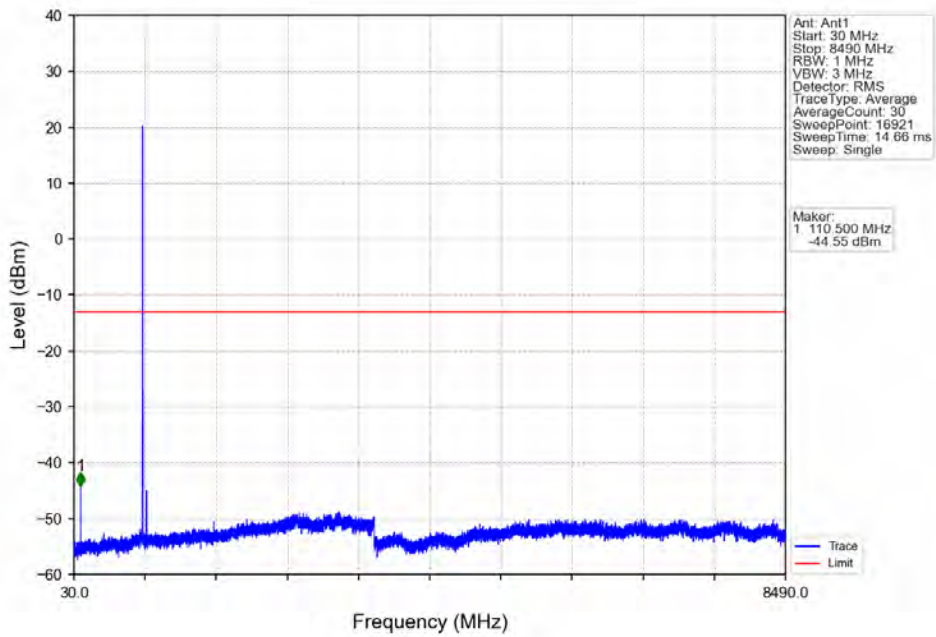


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.932	-36.59	-13	Pass
823	824	0.03	/	2	823.988	-35.27	-13	Pass
824	827	0.03	/	/	/	/	/	/

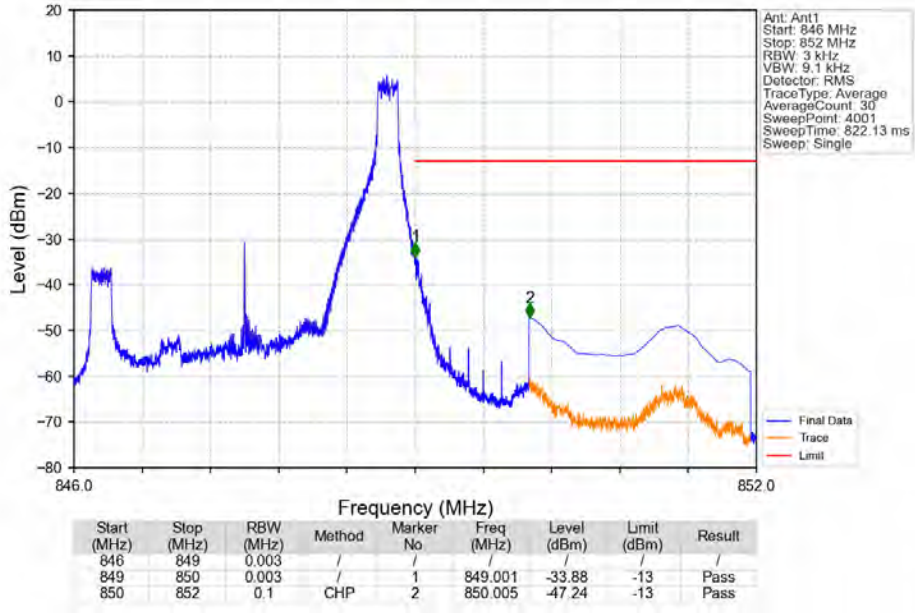
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



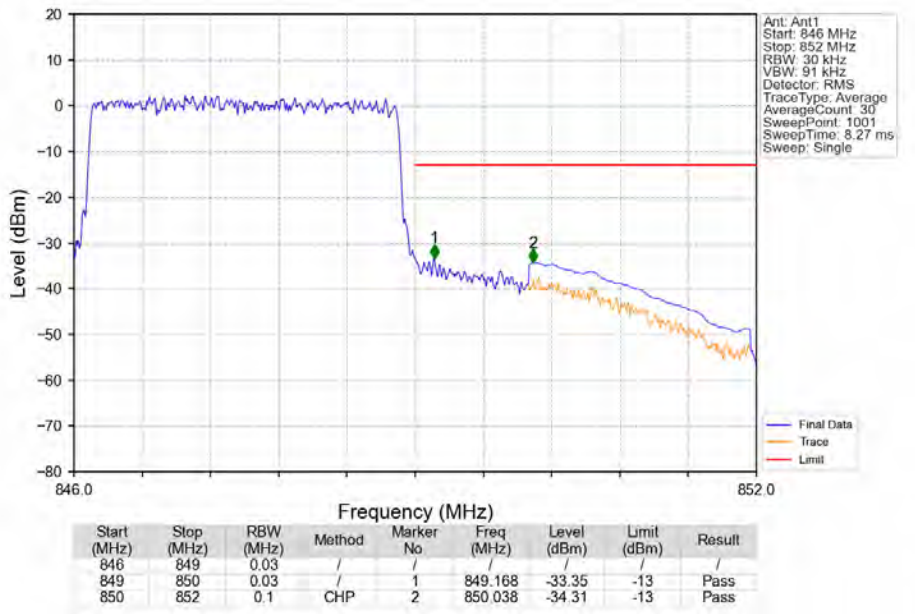
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



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



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

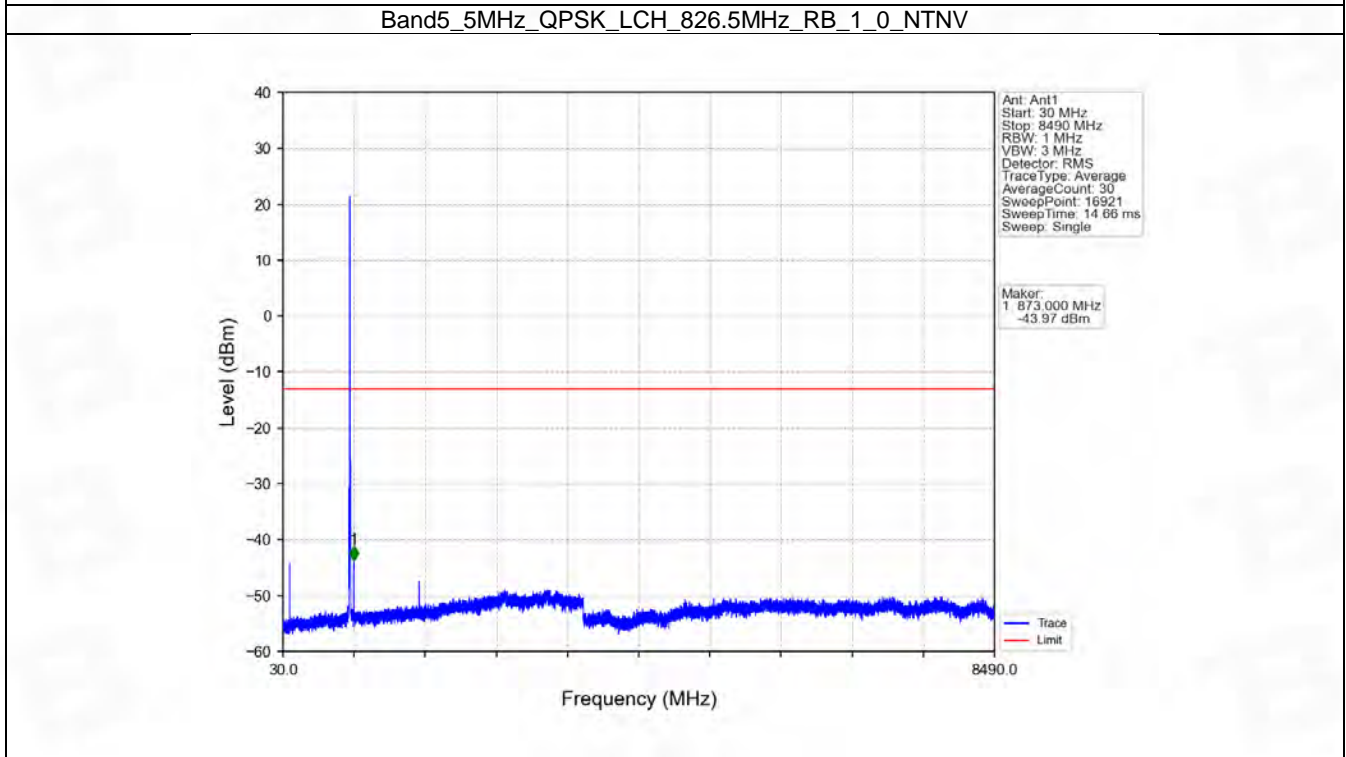
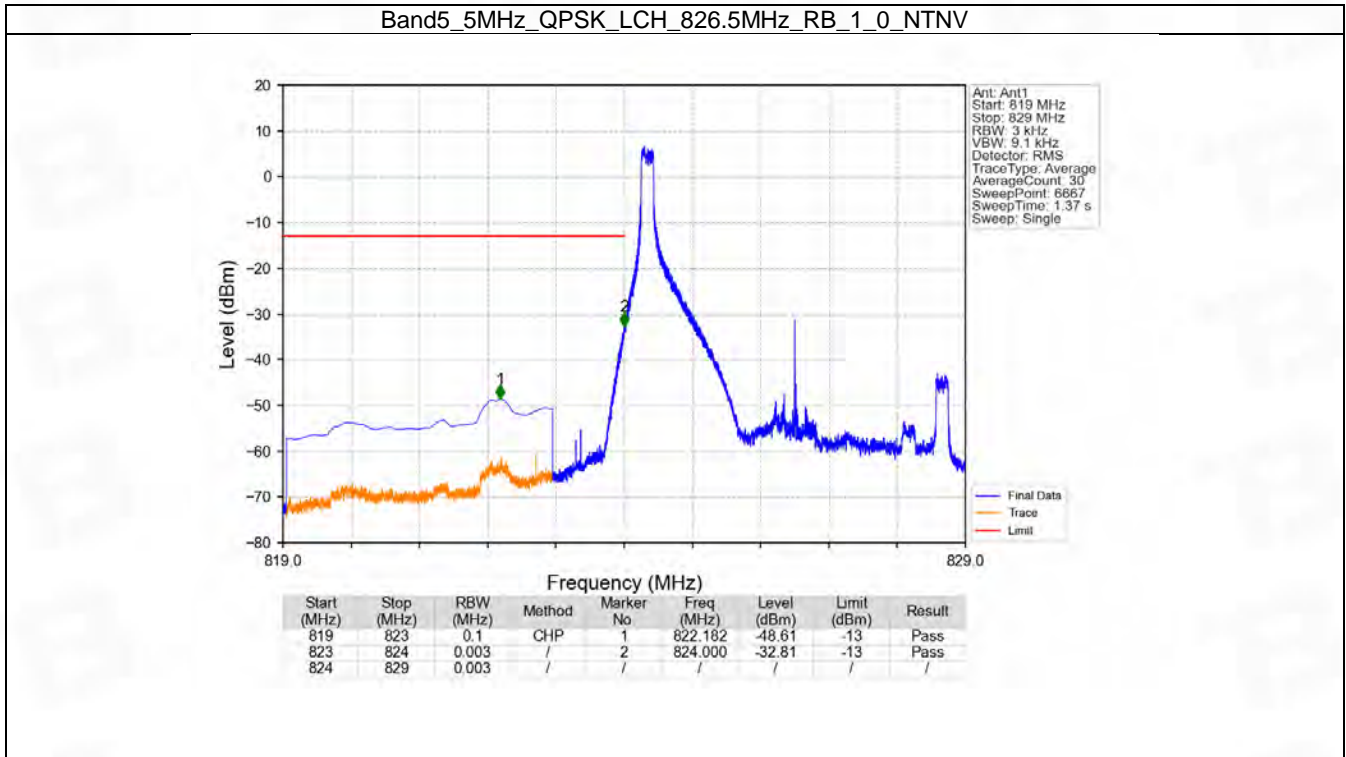


## 6.3 B5\_5MHz

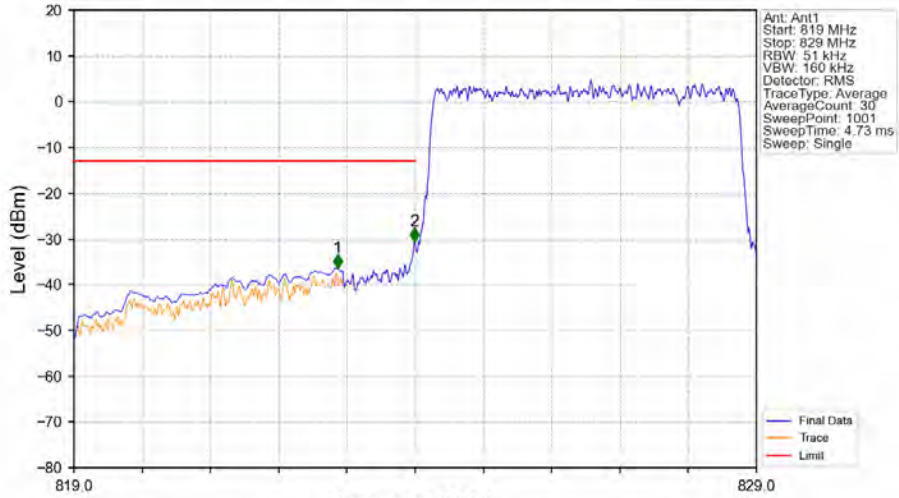
### 6.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN						
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
	836.5	1	0	Refer To Test Graph		Pass
	846.5	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
	836.5	1	0	Refer To Test Graph		Pass
	846.5	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

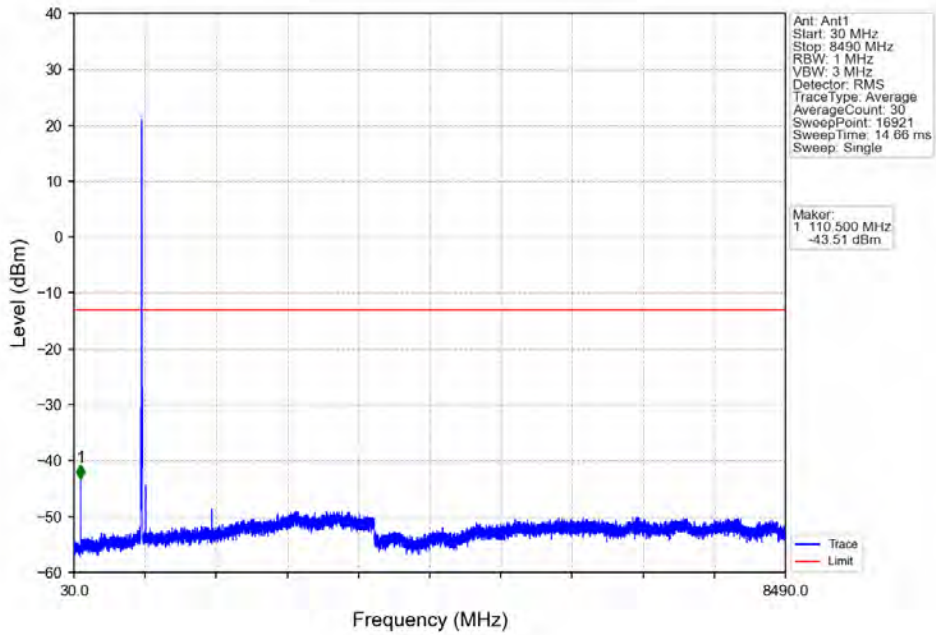


Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.860	-36.37	-13	Pass
823	824	0.051	/	2	823.990	-30.56	-13	Pass
824	829	0.051	/	/	/	/	/	/

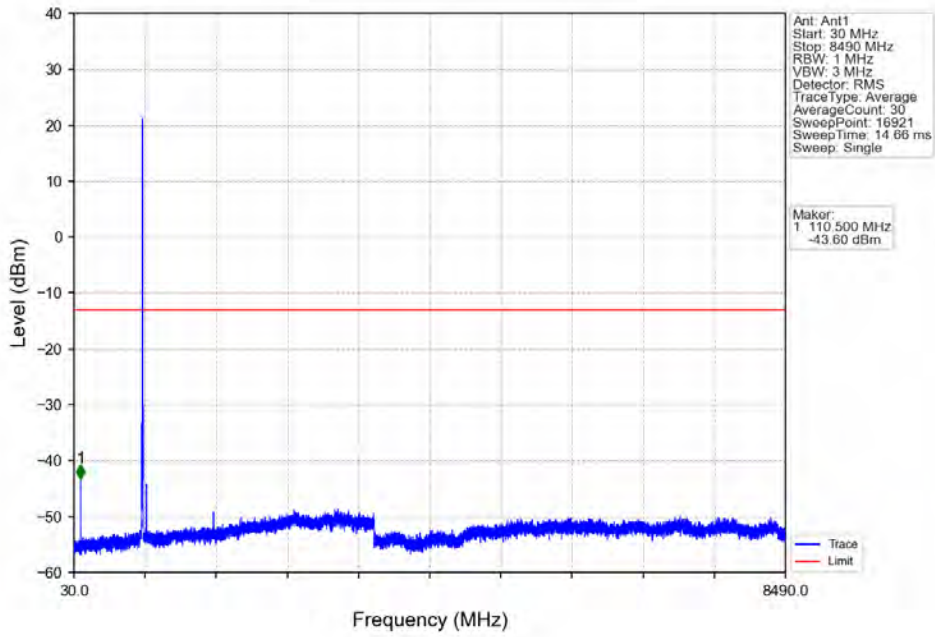
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



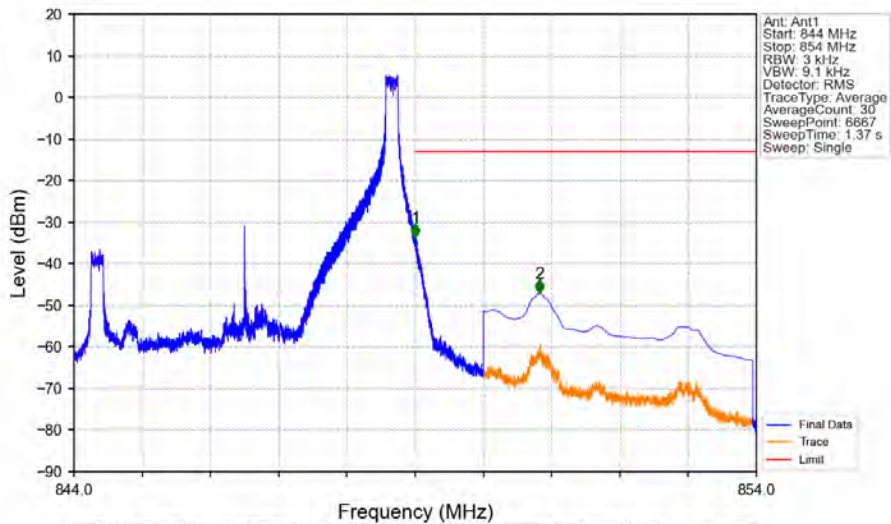
Ant: Ant1  
 Start: 819 MHz  
 Stop: 829 MHz  
 RBW: 51 kHz  
 VBW: 160 kHz  
 Detector: RMS  
 TraceType: Average  
 AverageCount: 30  
 SweepPoint: 1001  
 SweepTime: 4.73 ms  
 Sweep: Single

Marker:  
 1 836.500 MHz  
 -43.51 dBm

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

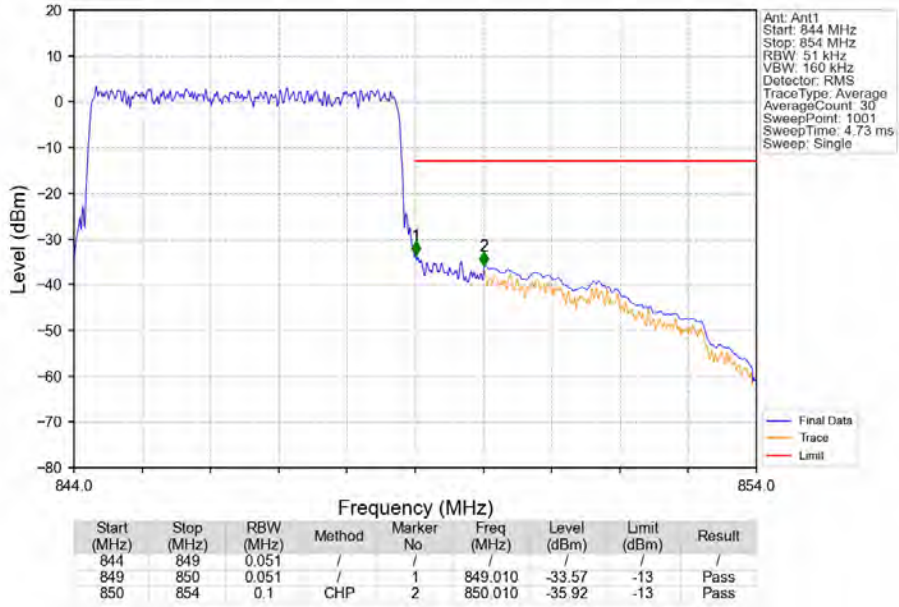


Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_24\_NTNV

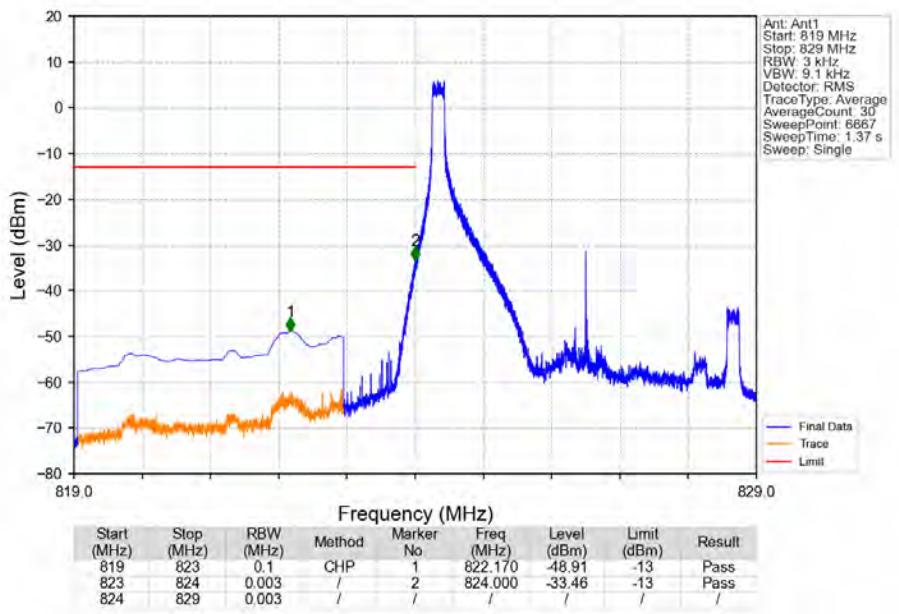


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	1	849.001	-33.81	-13	Pass
849	850	0.003	/	1	849.001	-33.81	-13	Pass
850	854	0.1	CHP	2	850.817	-47.18	-13	Pass

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

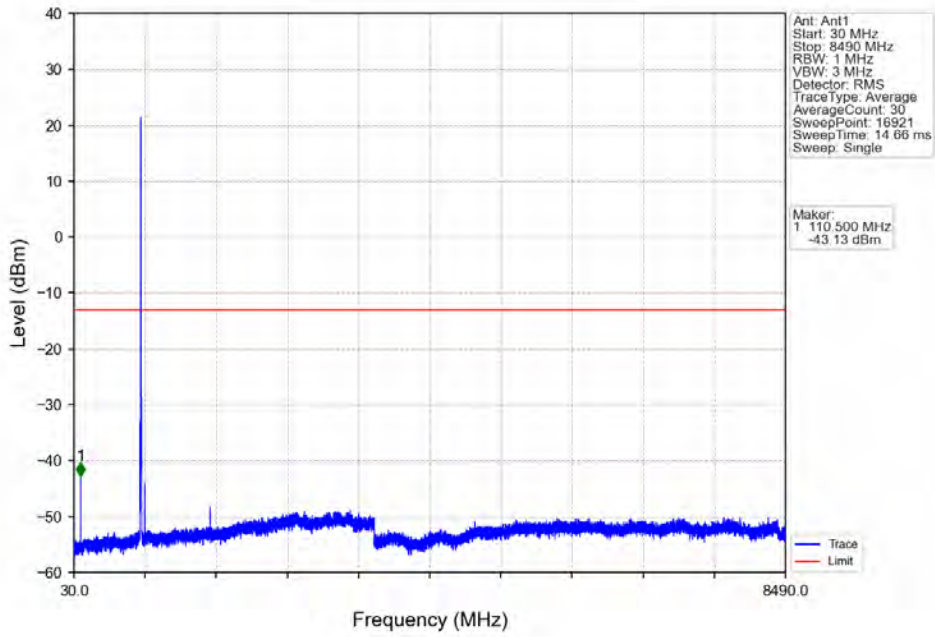


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

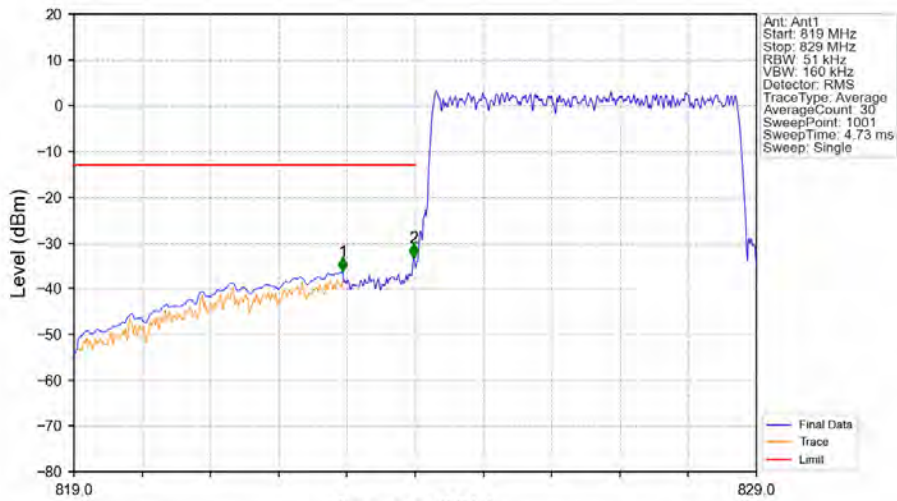




Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

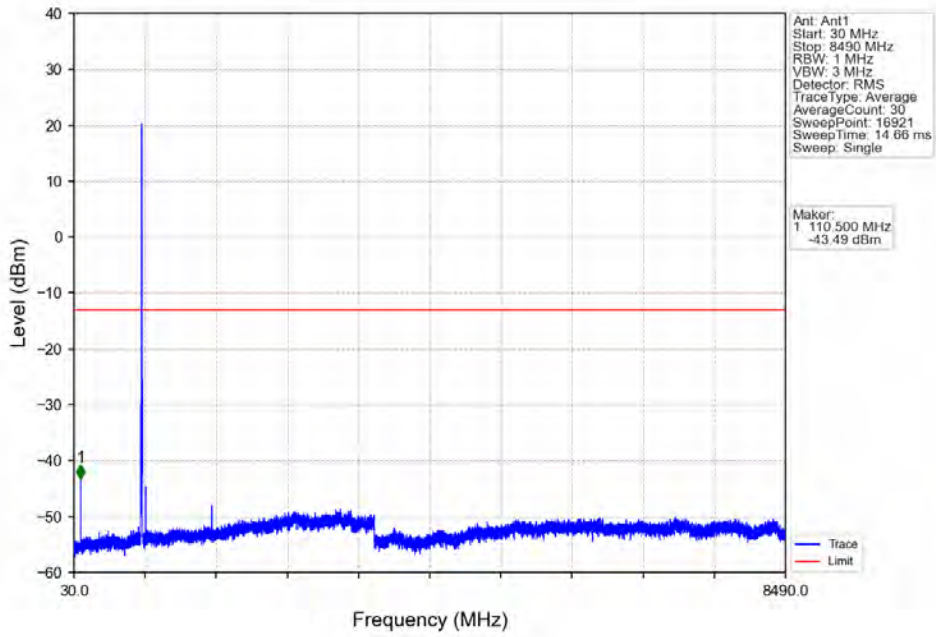


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

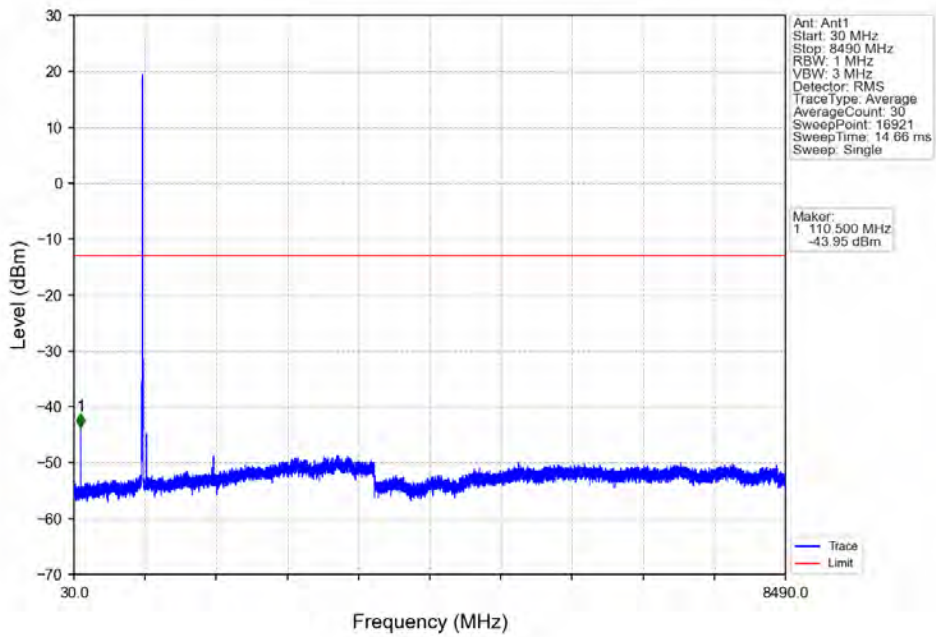


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.940	-36.26	-13	Pass
823	824	0.051	/	2	823.980	-33.32	-13	Pass
824	829	0.051	/	/	/	/	/	/

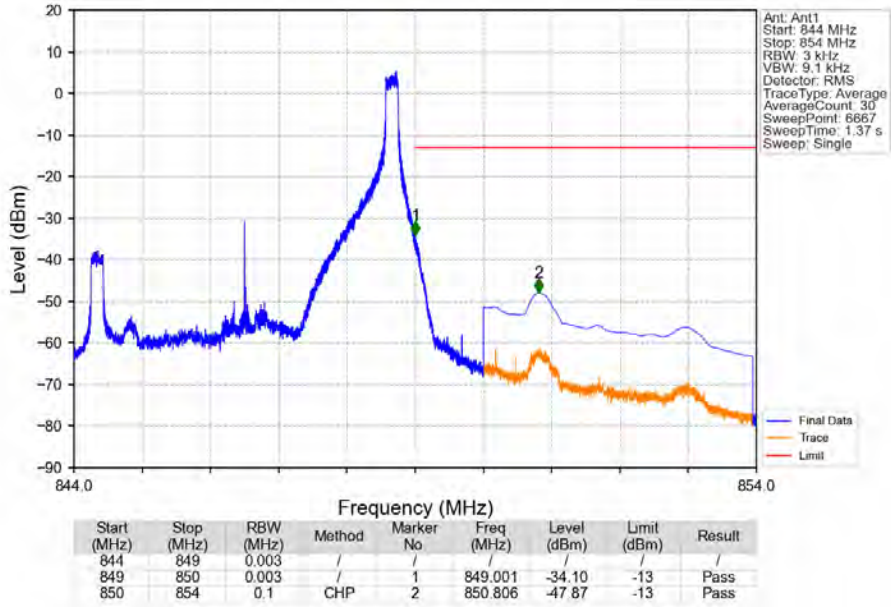
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



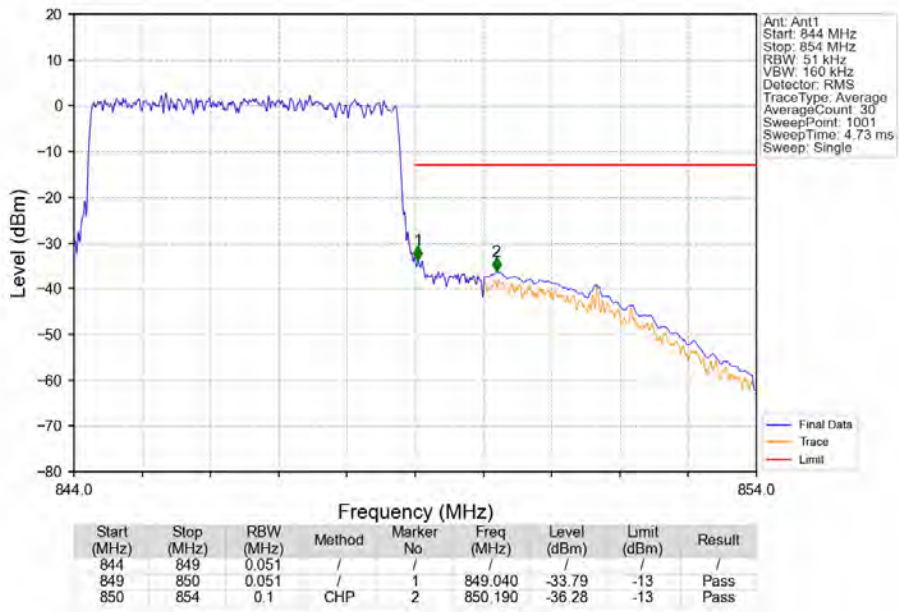
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



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



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

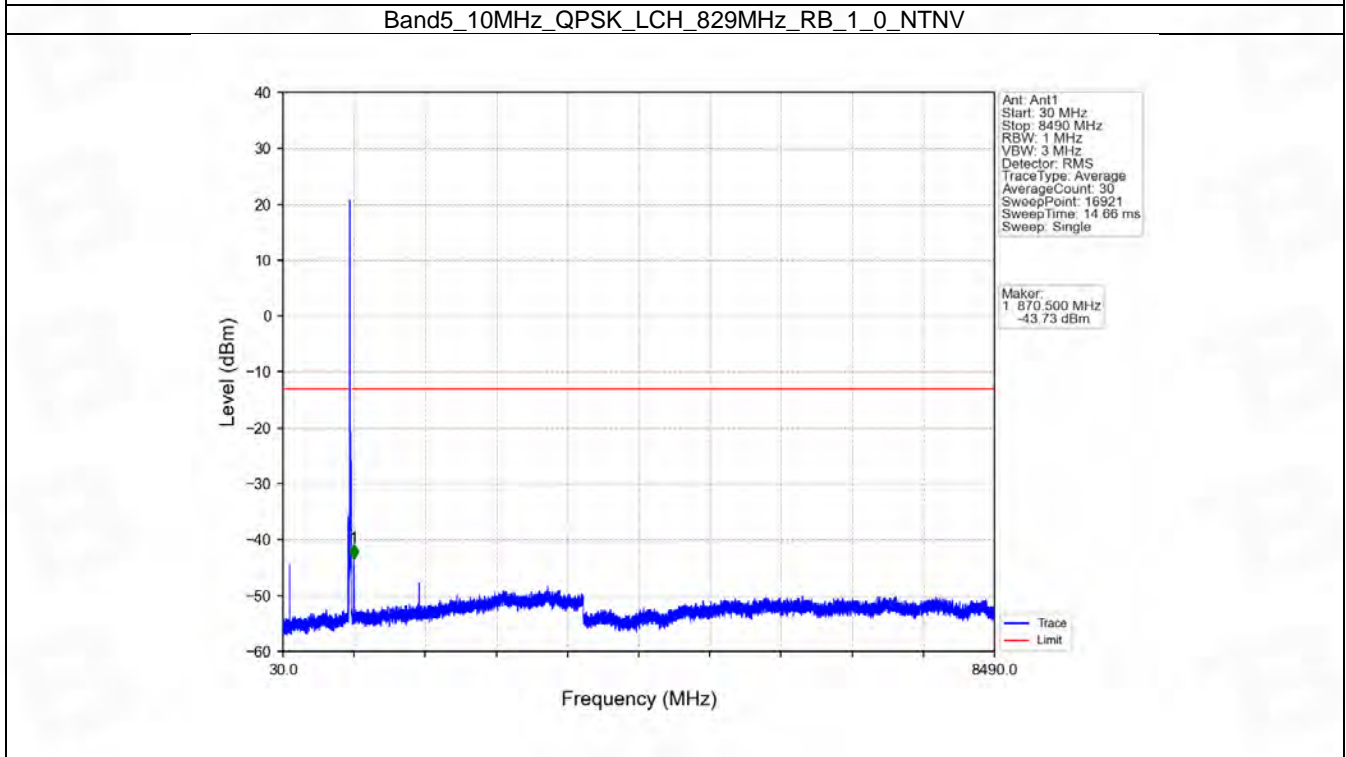
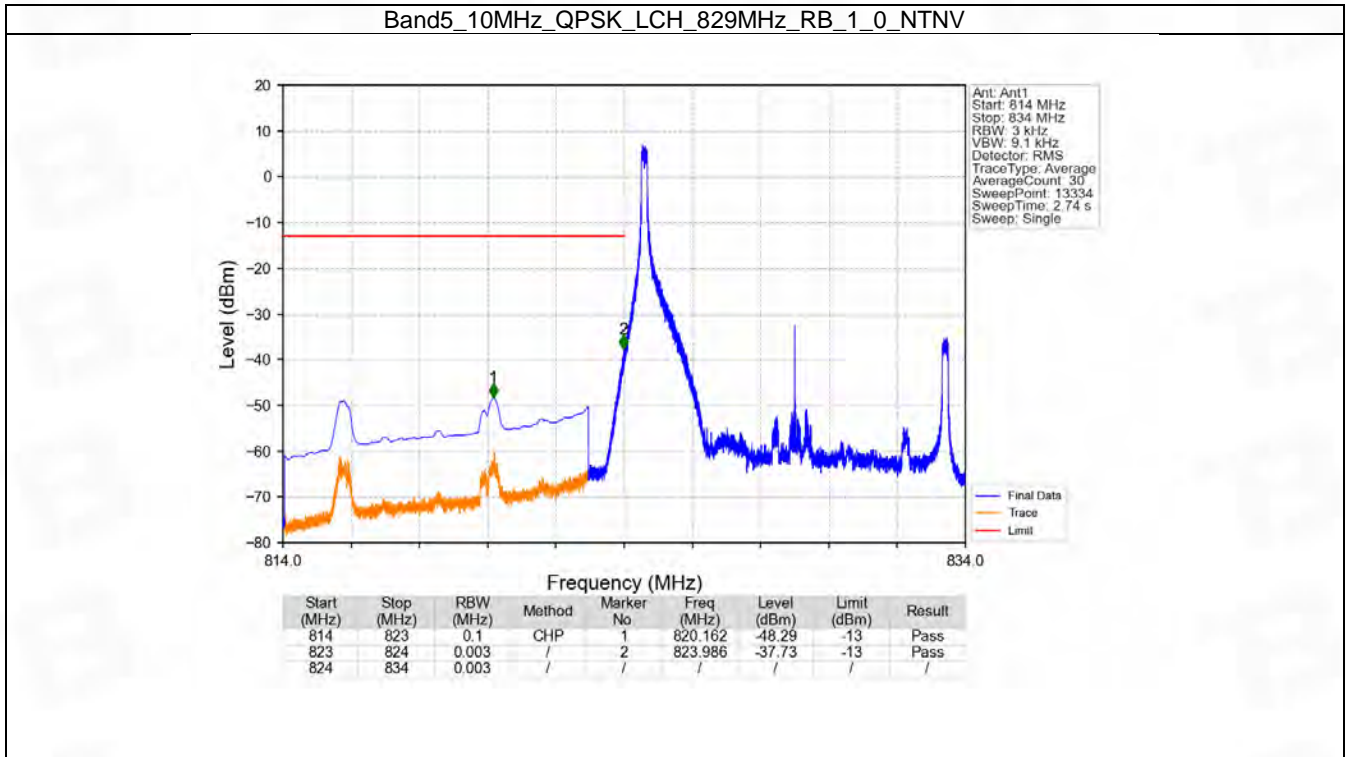


## 6.4 B5\_10MHz

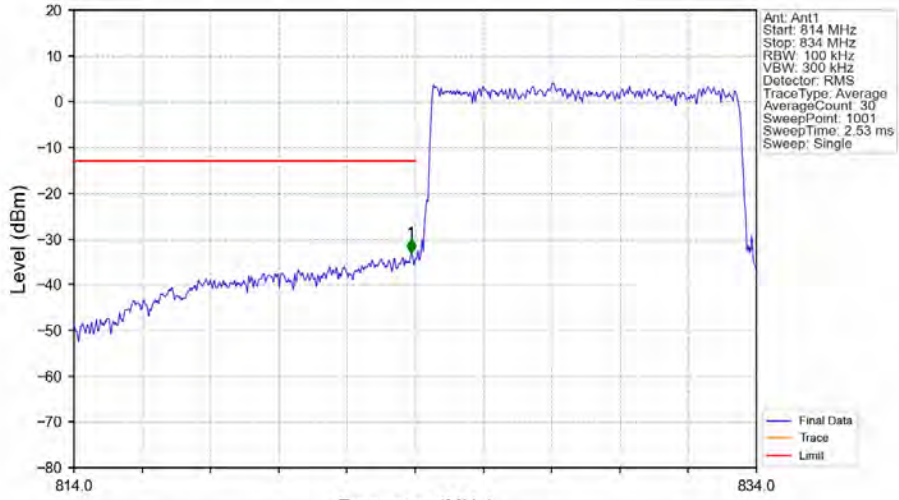
### 6.4.1 Test Result

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
	836.5	1	0	Refer To Test Graph		Pass
	844	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
	836.5	1	0	Refer To Test Graph		Pass
	844	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

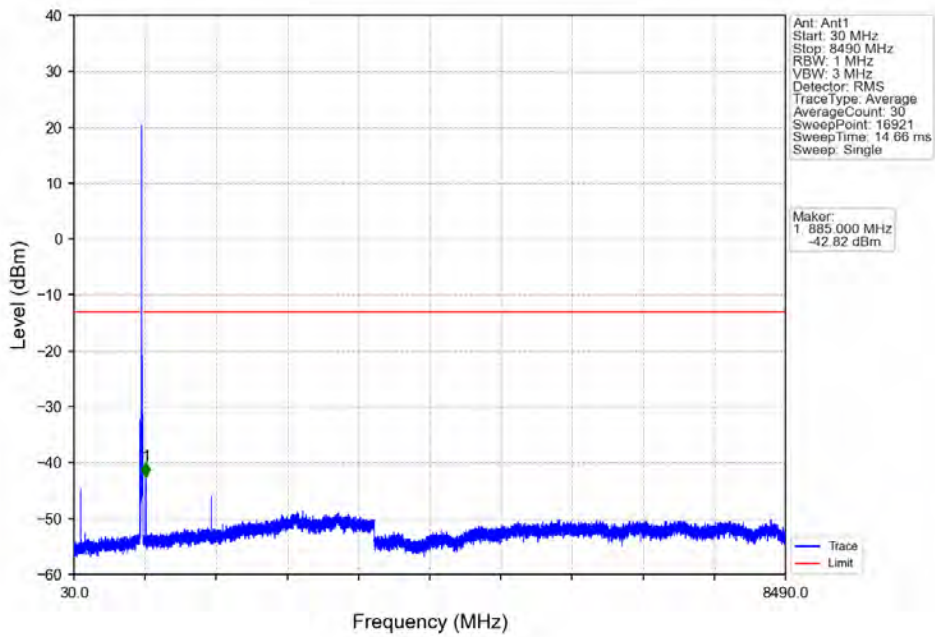


Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV

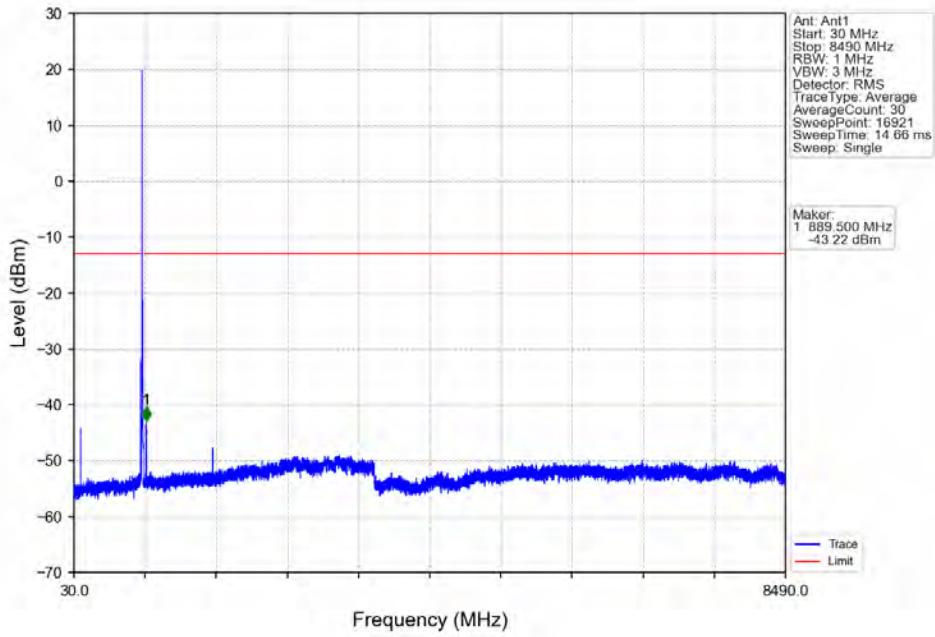


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	1	823.880	-33.16	-13	Pass
824	834	0.1	/	/	/	/	/	/

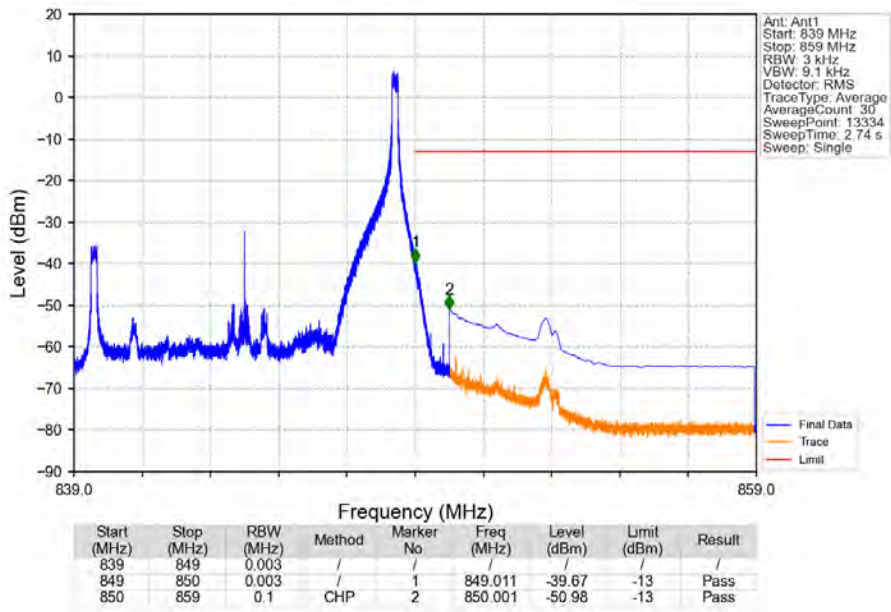
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



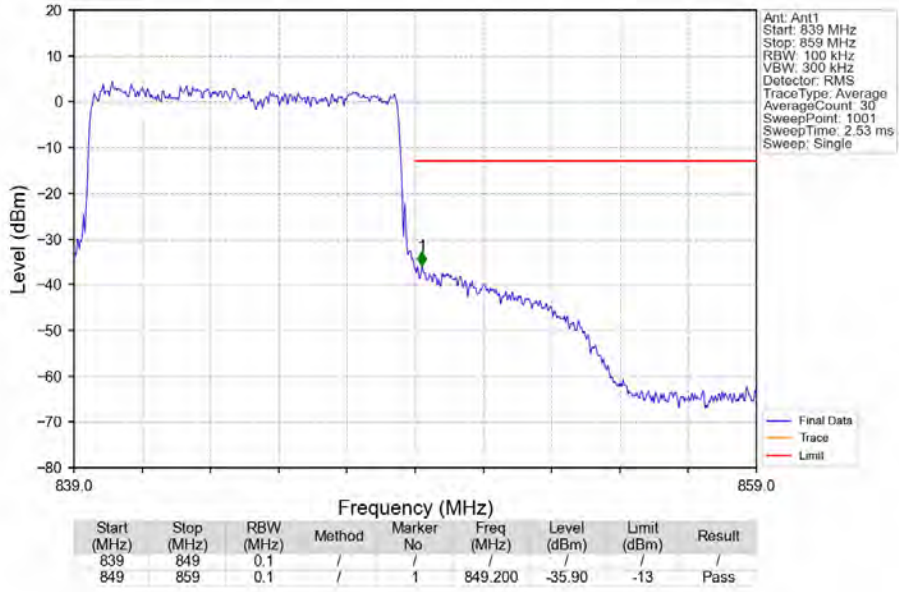
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV



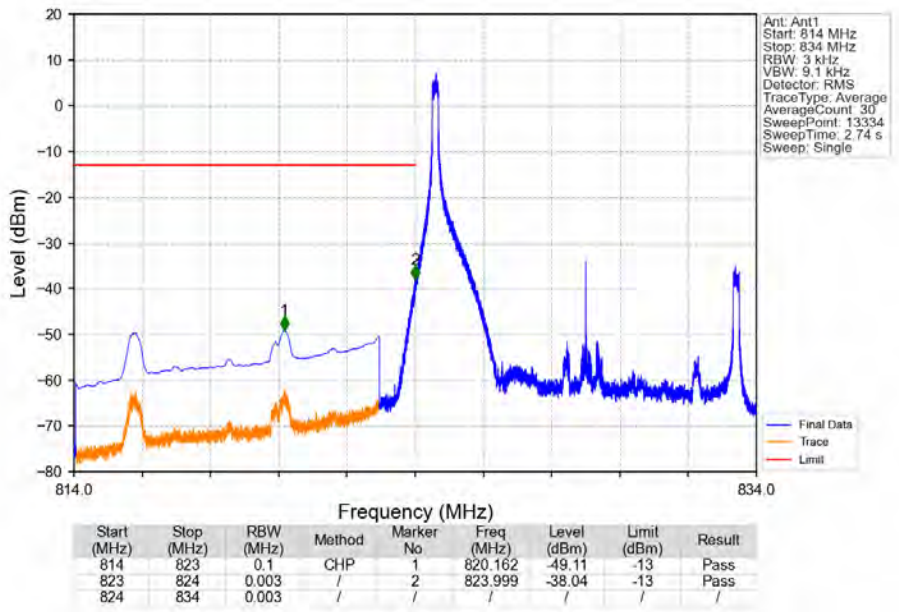
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV



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

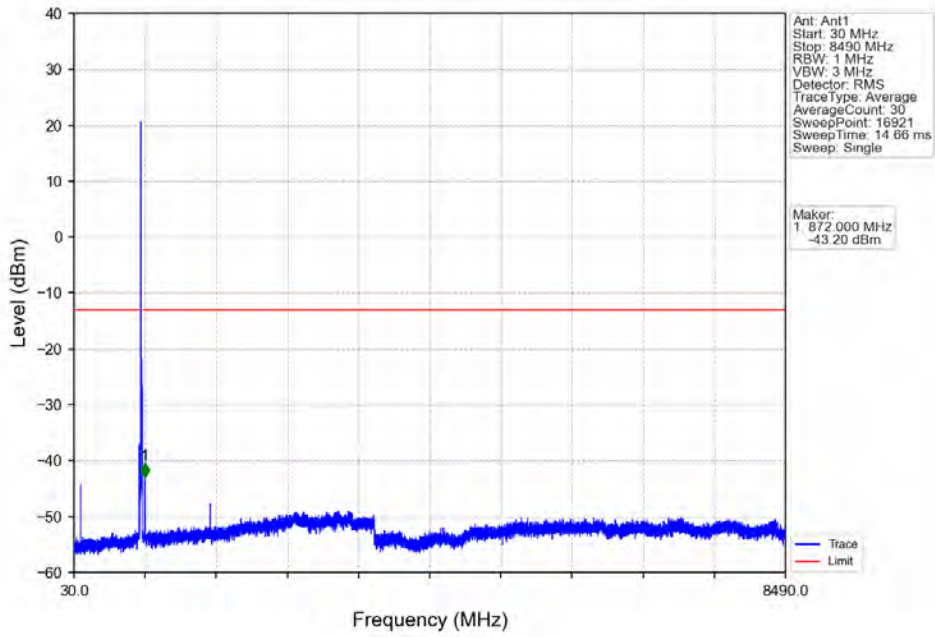


Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV

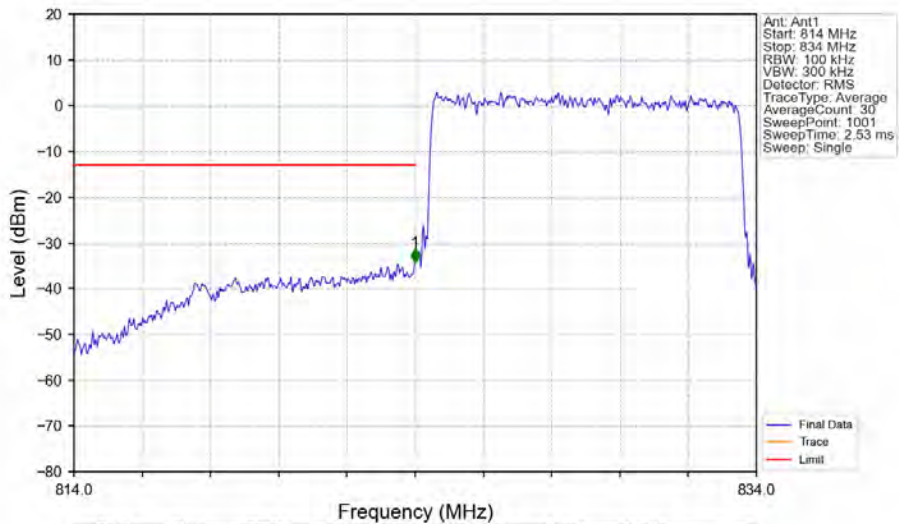




Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV

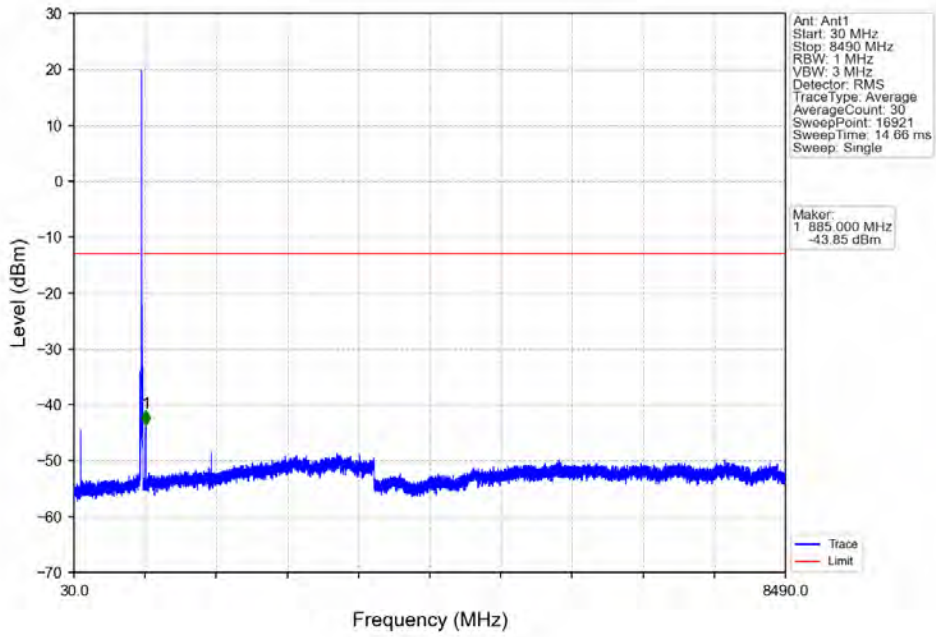


Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV

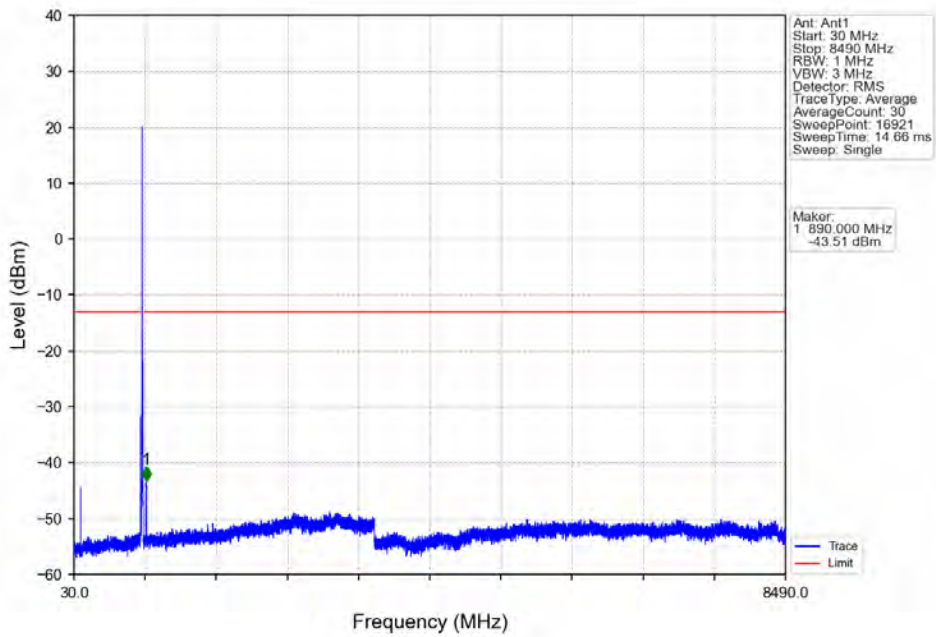


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	1	824.000	-34.27	-13	Pass
824	834	0.1	/	/	/	/	/	/

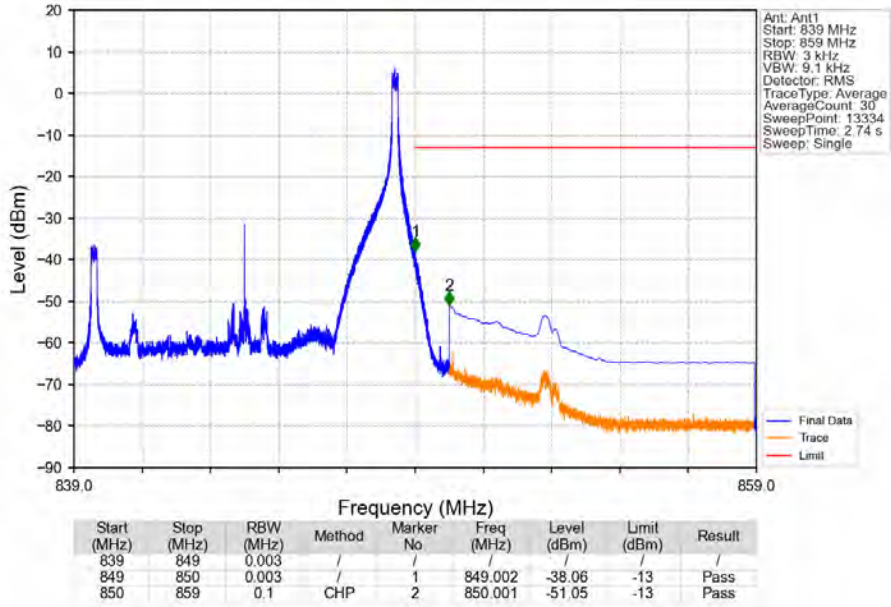
Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



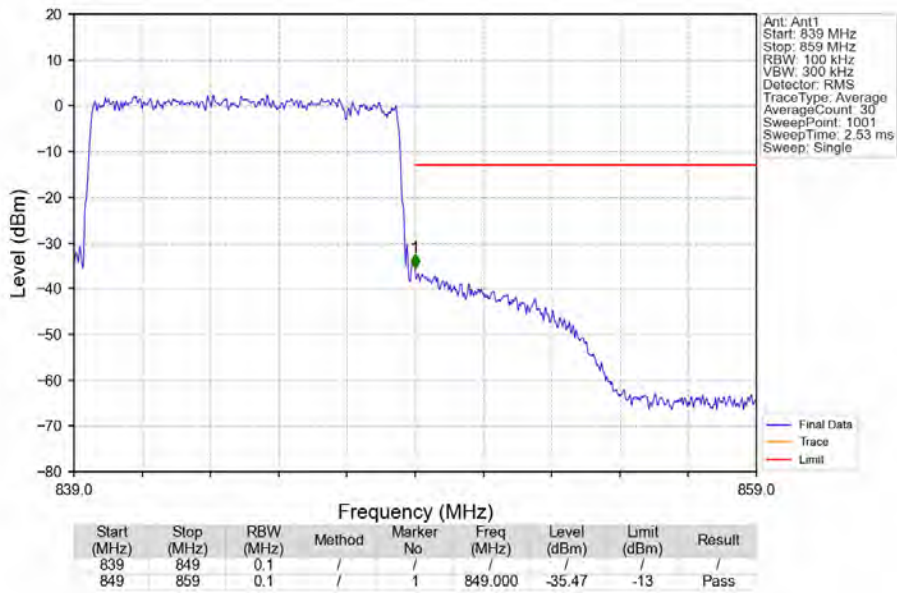
Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



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	0.2032	0.0142	ppm	1M12G7D	24E	23.08
5	1.4	824.7	848.3	0.1629	0.0141	ppm	1M12W7D	24E	22.12
5	3	825.5	847.5	0.2056	0.0168	ppm	2M73G7D	24E	23.13
5	3	825.5	847.5	0.1552	0.0157	ppm	2M73W7D	24E	21.91
5	5	826.5	846.5	0.1786	0.0150	ppm	4M56G7D	24E	22.52
5	5	826.5	846.5	0.1496	0.0128	ppm	4M55W7D	24E	21.75
5	10	829	844	0.1811	0.0138	ppm	9M07G7D	24E	22.58
5	10	829	844	0.1552	0.0126	ppm	9M05W7D	24E	21.91

## 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	0.0684	0.0142	ppm	1M12G7D	24E	18.35
5	1.4	824.7	848.3	0.0548	0.0141	ppm	1M12W7D	24E	17.39
5	3	825.5	847.5	0.0692	0.0168	ppm	2M73G7D	24E	18.40
5	3	825.5	847.5	0.0522	0.0157	ppm	2M73W7D	24E	17.18
5	5	826.5	846.5	0.0601	0.0150	ppm	4M56G7D	24E	17.79
5	5	826.5	846.5	0.0504	0.0128	ppm	4M55W7D	24E	17.02
5	10	829	844	0.0610	0.0138	ppm	9M07G7D	24E	17.85
5	10	829	844	0.0522	0.0126	ppm	9M05W7D	24E	17.18