

# 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	23.33	-0.71	20.47	<=38.45	Pass		
			2	23.35	-0.71	20.49	<=38.45	Pass		
			5	23.38	-0.71	20.52	<=38.45	Pass		
		3	0	23.36	-0.71	20.50	<=38.45	Pass		
			2	23.37	-0.71	20.51	<=38.45	Pass		
			3	23.38	-0.71	20.52	<=38.45	Pass		
		6	0	22.38	-0.71	19.52	<=38.45	Pass		
		836.5	1	0	23.19	-0.71	20.33	<=38.45	Pass	
				2	23.23	-0.71	20.37	<=38.45	Pass	
	5			23.25	-0.71	20.39	<=38.45	Pass		
	3		0	23.23	-0.71	20.37	<=38.45	Pass		
			2	23.21	-0.71	20.35	<=38.45	Pass		
			3	23.18	-0.71	20.32	<=38.45	Pass		
	6		0	22.30	-0.71	19.44	<=38.45	Pass		
	848.3		1	0	23.08	-0.71	20.22	<=38.45	Pass	
				2	23.10	-0.71	20.24	<=38.45	Pass	
		5		22.84	-0.71	19.98	<=38.45	Pass		
		3	0	23.19	-0.71	20.33	<=38.45	Pass		
			2	23.19	-0.71	20.33	<=38.45	Pass		
			3	23.16	-0.71	20.30	<=38.45	Pass		
		6	0	22.14	-0.71	19.28	<=38.45	Pass		
		16QAM	824.7	1	0	22.39	-0.71	19.53	<=38.45	Pass
					2	22.36	-0.71	19.50	<=38.45	Pass
	5				22.43	-0.71	19.57	<=38.45	Pass	
3	0			22.19	-0.71	19.33	<=38.45	Pass		
	2			22.18	-0.71	19.32	<=38.45	Pass		
	3			22.13	-0.71	19.27	<=38.45	Pass		
6	0			21.40	-0.71	18.54	<=38.45	Pass		
836.5	1			0	22.77	-0.71	19.91	<=38.45	Pass	
				2	22.84	-0.71	19.98	<=38.45	Pass	
			5	22.82	-0.71	19.96	<=38.45	Pass		
	3		0	22.30	-0.71	19.44	<=38.45	Pass		
			2	22.25	-0.71	19.39	<=38.45	Pass		
			3	22.28	-0.71	19.42	<=38.45	Pass		
	6		0	21.39	-0.71	18.53	<=38.45	Pass		
	848.3		1	0	22.69	-0.71	19.83	<=38.45	Pass	
				2	23.03	-0.71	20.17	<=38.45	Pass	
5				22.64	-0.71	19.78	<=38.45	Pass		
3			0	22.14	-0.71	19.28	<=38.45	Pass		
			2	22.15	-0.71	19.29	<=38.45	Pass		
			3	22.06	-0.71	19.20	<=38.45	Pass		
6			0	21.32	-0.71	18.46	<=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	23.32	-0.71	20.46	<=38.45	Pass		
			7	23.35	-0.71	20.49	<=38.45	Pass		
			14	23.32	-0.71	20.46	<=38.45	Pass		
		8	0	22.36	-0.71	19.50	<=38.45	Pass		
			4	22.35	-0.71	19.49	<=38.45	Pass		
			7	22.22	-0.71	19.36	<=38.45	Pass		
		15	0	22.37	-0.71	19.51	<=38.45	Pass		
		836.5	1	0	23.25	-0.71	20.39	<=38.45	Pass	
				7	23.23	-0.71	20.37	<=38.45	Pass	
	14			23.23	-0.71	20.37	<=38.45	Pass		
	8		0	22.17	-0.71	19.31	<=38.45	Pass		
			4	22.23	-0.71	19.37	<=38.45	Pass		
			7	22.17	-0.71	19.31	<=38.45	Pass		
	15		0	22.19	-0.71	19.33	<=38.45	Pass		
	847.5		1	0	23.10	-0.71	20.24	<=38.45	Pass	
				7	23.04	-0.71	20.18	<=38.45	Pass	
		14		22.98	-0.71	20.12	<=38.45	Pass		
		8	0	22.22	-0.71	19.36	<=38.45	Pass		
			4	22.18	-0.71	19.32	<=38.45	Pass		
			7	22.21	-0.71	19.35	<=38.45	Pass		
		15	0	22.14	-0.71	19.28	<=38.45	Pass		
		16QAM	825.5	1	0	22.75	-0.71	19.89	<=38.45	Pass
					7	22.67	-0.71	19.81	<=38.45	Pass
	14				22.52	-0.71	19.66	<=38.45	Pass	
8	0			21.59	-0.71	18.73	<=38.45	Pass		
	4			21.60	-0.71	18.74	<=38.45	Pass		
	7			21.43	-0.71	18.57	<=38.45	Pass		
15	0			21.36	-0.71	18.50	<=38.45	Pass		
836.5	1			0	22.76	-0.71	19.90	<=38.45	Pass	
				7	22.89	-0.71	20.03	<=38.45	Pass	
			14	22.84	-0.71	19.98	<=38.45	Pass		
	8		0	21.26	-0.71	18.40	<=38.45	Pass		
			4	21.39	-0.71	18.53	<=38.45	Pass		
			7	21.41	-0.71	18.55	<=38.45	Pass		
	15		0	21.38	-0.71	18.52	<=38.45	Pass		
	847.5		1	0	22.97	-0.71	20.11	<=38.45	Pass	
				7	22.98	-0.71	20.12	<=38.45	Pass	
14				22.95	-0.71	20.09	<=38.45	Pass		
8			0	21.41	-0.71	18.55	<=38.45	Pass		
			4	21.39	-0.71	18.53	<=38.45	Pass		
			7	21.42	-0.71	18.56	<=38.45	Pass		
15			0	21.32	-0.71	18.46	<=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	23.38	-0.71	20.52	<=38.45	Pass
			13	23.33	-0.71	20.47	<=38.45	Pass
			24	23.24	-0.71	20.38	<=38.45	Pass

	836.5	12	0	22.41	-0.71	19.55	<=38.45	Pass	
			6	22.35	-0.71	19.49	<=38.45	Pass	
			13	22.27	-0.71	19.41	<=38.45	Pass	
		25	0	22.28	-0.71	19.42	<=38.45	Pass	
			1	0	23.27	-0.71	20.41	<=38.45	Pass
				13	23.12	-0.71	20.26	<=38.45	Pass
		24		23.04	-0.71	20.18	<=38.45	Pass	
		12	0	22.19	-0.71	19.33	<=38.45	Pass	
			6	22.23	-0.71	19.37	<=38.45	Pass	
	13		22.25	-0.71	19.39	<=38.45	Pass		
	25	0	22.32	-0.71	19.46	<=38.45	Pass		
		846.5	1	0	23.34	-0.71	20.48	<=38.45	Pass
				13	23.36	-0.71	20.50	<=38.45	Pass
	24			23.29	-0.71	20.43	<=38.45	Pass	
	12	0	22.28	-0.71	19.42	<=38.45	Pass		
		6	22.22	-0.71	19.36	<=38.45	Pass		
		13	22.26	-0.71	19.40	<=38.45	Pass		
	25	0	22.17	-0.71	19.31	<=38.45	Pass		
		826.5	1	0	22.10	-0.71	19.24	<=38.45	Pass
				13	21.95	-0.71	19.09	<=38.45	Pass
	24			21.95	-0.71	19.09	<=38.45	Pass	
	12		0	21.44	-0.71	18.58	<=38.45	Pass	
			6	21.39	-0.71	18.53	<=38.45	Pass	
			13	21.38	-0.71	18.52	<=38.45	Pass	
25	0		21.46	-0.71	18.60	<=38.45	Pass		
	836.5		1	0	22.84	-0.71	19.98	<=38.45	Pass
				13	22.78	-0.71	19.92	<=38.45	Pass
24		22.88		-0.71	20.02	<=38.45	Pass		
12	0	21.24	-0.71	18.38	<=38.45	Pass			
	6	21.33	-0.71	18.47	<=38.45	Pass			
	13	21.32	-0.71	18.46	<=38.45	Pass			
25	0	21.41	-0.71	18.55	<=38.45	Pass			
	846.5	1	0	22.93	-0.71	20.07	<=38.45	Pass	
			13	22.83	-0.71	19.97	<=38.45	Pass	
24			22.83	-0.71	19.97	<=38.45	Pass		
12	0	21.31	-0.71	18.45	<=38.45	Pass			
	6	21.32	-0.71	18.46	<=38.45	Pass			
	13	21.36	-0.71	18.50	<=38.45	Pass			
25	0	21.36	-0.71	18.50	<=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 / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	829	1	0	23.30	-0.71	20.44	<=38.45	Pass	
			25	23.14	-0.71	20.28	<=38.45	Pass	
			49	23.05	-0.71	20.19	<=38.45	Pass	
		25	0	22.23	-0.71	19.37	<=38.45	Pass	
			13	22.33	-0.71	19.47	<=38.45	Pass	
			25	22.23	-0.71	19.37	<=38.45	Pass	
	50	0	22.33	-0.71	19.47	<=38.45	Pass		
		836.5	1	0	23.11	-0.71	20.25	<=38.45	Pass
				25	23.20	-0.71	20.34	<=38.45	Pass

		25	49	23.24	-0.71	20.38	<=38.45	Pass		
			0	22.23	-0.71	19.37	<=38.45	Pass		
			13	22.28	-0.71	19.42	<=38.45	Pass		
			25	22.20	-0.71	19.34	<=38.45	Pass		
			50	0	22.22	-0.71	19.36	<=38.45	Pass	
	844	1	0	23.18	-0.71	20.32	<=38.45	Pass		
			25	23.16	-0.71	20.30	<=38.45	Pass		
			49	23.11	-0.71	20.25	<=38.45	Pass		
		25	0	22.38	-0.71	19.52	<=38.45	Pass		
			13	22.15	-0.71	19.29	<=38.45	Pass		
	25		22.20	-0.71	19.34	<=38.45	Pass			
	50	0	22.28	-0.71	19.42	<=38.45	Pass			
	16QAM	829	1	0	23.13	-0.71	20.27	<=38.45	Pass	
				25	23.28	-0.71	20.42	<=38.45	Pass	
				49	23.25	-0.71	20.39	<=38.45	Pass	
25			0	21.35	-0.71	18.49	<=38.45	Pass		
			13	21.37	-0.71	18.51	<=38.45	Pass		
			25	21.48	-0.71	18.62	<=38.45	Pass		
50			0	21.46	-0.71	18.60	<=38.45	Pass		
836.5			1	0	22.27	-0.71	19.41	<=38.45	Pass	
				25	22.22	-0.71	19.36	<=38.45	Pass	
		49		22.26	-0.71	19.40	<=38.45	Pass		
		25	0	21.45	-0.71	18.59	<=38.45	Pass		
			13	21.50	-0.71	18.64	<=38.45	Pass		
			25	21.52	-0.71	18.66	<=38.45	Pass		
		50	0	21.39	-0.71	18.53	<=38.45	Pass		
		844	1	0	23.47	-0.71	20.61	<=38.45	Pass	
				25	22.94	-0.71	20.08	<=38.45	Pass	
49				22.89	-0.71	20.03	<=38.45	Pass		
25			0	21.50	-0.71	18.64	<=38.45	Pass		
			13	21.47	-0.71	18.61	<=38.45	Pass		
			25	21.43	-0.71	18.57	<=38.45	Pass		
50			0	21.47	-0.71	18.61	<=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	-3.262	-0.0040	-2.5 to 2.5	Pass
					3.85	-4.649	-0.0056	-2.5 to 2.5	Pass
					4.43	-5.136	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-10.328	-0.0125	-2.5 to 2.5	Pass
				-20	3.85	-21.186	-0.0257	-2.5 to 2.5	Pass
				-10	3.85	-37.723	-0.0457	-2.5 to 2.5	Pass
				0	3.85	-6.838	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-26.636	-0.0323	-2.5 to 2.5	Pass
				30	3.85	-1.659	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-27.466	-0.0333	-2.5 to 2.5	Pass
				50	3.85	-42.214	-0.0512	-2.5 to 2.5	Pass
				836.5	6	0	20	3.27	-5.851

					3.85	-19.698	-0.0235	-2.5 to 2.5	Pass
					4.43	-30.570	-0.0365	-2.5 to 2.5	Pass
					-30	3.85	-32.587	-0.0390	-2.5 to 2.5
				-20	3.85	-31.271	-0.0374	-2.5 to 2.5	Pass
				-10	3.85	-38.180	-0.0456	-2.5 to 2.5	Pass
				0	3.85	-6.323	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-15.121	-0.0181	-2.5 to 2.5	Pass
				30	3.85	-22.831	-0.0273	-2.5 to 2.5	Pass
				40	3.85	-33.646	-0.0402	-2.5 to 2.5	Pass
	50	3.85	-42.400	-0.0507	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.27	10.543	0.0124	-2.5 to 2.5	Pass
					3.85	26.793	0.0316	-2.5 to 2.5	Pass
					4.43	42.243	0.0498	-2.5 to 2.5	Pass
				-30	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				-20	3.85	2.804	0.0033	-2.5 to 2.5	Pass
				-10	3.85	0.501	0.0006	-2.5 to 2.5	Pass
				0	3.85	-6.065	-0.0071	-2.5 to 2.5	Pass
				10	3.85	-14.348	-0.0169	-2.5 to 2.5	Pass
30				3.85	-23.718	-0.0280	-2.5 to 2.5	Pass	
40	3.85	-33.631	-0.0396	-2.5 to 2.5	Pass				
50	3.85	-44.446	-0.0524	-2.5 to 2.5	Pass				
16QAM	824.7	6	0	20	3.27	-1.788	-0.0022	-2.5 to 2.5	Pass
					3.85	-22.130	-0.0268	-2.5 to 2.5	Pass
					4.43	-40.398	-0.0490	-2.5 to 2.5	Pass
				-30	3.85	-7.010	-0.0085	-2.5 to 2.5	Pass
				-20	3.85	-35.849	-0.0435	-2.5 to 2.5	Pass
				-10	3.85	-8.454	-0.0103	-2.5 to 2.5	Pass
				0	3.85	-31.099	-0.0377	-2.5 to 2.5	Pass
				10	3.85	1.559	0.0019	-2.5 to 2.5	Pass
				30	3.85	-12.875	-0.0156	-2.5 to 2.5	Pass
	40	3.85	-29.469	-0.0357	-2.5 to 2.5	Pass			
	50	3.85	-45.490	-0.0552	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.27	-4.678	-0.0056	-2.5 to 2.5	Pass
					3.85	-8.883	-0.0106	-2.5 to 2.5	Pass
					4.43	-20.084	-0.0240	-2.5 to 2.5	Pass
				-30	3.85	-27.781	-0.0332	-2.5 to 2.5	Pass
				-20	3.85	-38.352	-0.0458	-2.5 to 2.5	Pass
				-10	3.85	-42.157	-0.0504	-2.5 to 2.5	Pass
				0	3.85	-44.703	-0.0534	-2.5 to 2.5	Pass
10				3.85	-47.879	-0.0572	-2.5 to 2.5	Pass	
30				3.85	-8.698	-0.0104	-2.5 to 2.5	Pass	
40	3.85	-11.802	-0.0141	-2.5 to 2.5	Pass				
50	3.85	-16.165	-0.0193	-2.5 to 2.5	Pass				
848.3	6	0	20	3.27	-7.539	-0.0089	-2.5 to 2.5	Pass	
				3.85	-20.485	-0.0241	-2.5 to 2.5	Pass	
				4.43	-32.272	-0.0380	-2.5 to 2.5	Pass	
			-30	3.85	-45.562	-0.0537	-2.5 to 2.5	Pass	
			-20	3.85	-11.859	-0.0140	-2.5 to 2.5	Pass	
			-10	3.85	-21.029	-0.0248	-2.5 to 2.5	Pass	
			0	3.85	-25.334	-0.0299	-2.5 to 2.5	Pass	
			10	3.85	-32.129	-0.0379	-2.5 to 2.5	Pass	
			30	3.85	4.821	0.0057	-2.5 to 2.5	Pass	
40	3.85	-9.127	-0.0108	-2.5 to 2.5	Pass				
50	3.85	-20.256	-0.0239	-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	8.354	0.0101	-2.5 to 2.5	Pass
					3.85	16.623	0.0201	-2.5 to 2.5	Pass
					4.43	33.917	0.0411	-2.5 to 2.5	Pass
				-30	3.85	39.954	0.0484	-2.5 to 2.5	Pass
				-20	3.85	41.542	0.0503	-2.5 to 2.5	Pass
				-10	3.85	35.605	0.0431	-2.5 to 2.5	Pass
				0	3.85	25.992	0.0315	-2.5 to 2.5	Pass
				10	3.85	17.009	0.0206	-2.5 to 2.5	Pass
				30	3.85	5.350	0.0065	-2.5 to 2.5	Pass
				40	3.85	-7.210	-0.0087	-2.5 to 2.5	Pass
	50	3.85	-21.586	-0.0261	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-11.501	-0.0137	-2.5 to 2.5	Pass
					3.85	-15.235	-0.0182	-2.5 to 2.5	Pass
					4.43	-22.960	-0.0274	-2.5 to 2.5	Pass
				-30	3.85	-30.928	-0.0370	-2.5 to 2.5	Pass
				-20	3.85	-35.748	-0.0427	-2.5 to 2.5	Pass
				-10	3.85	-40.770	-0.0487	-2.5 to 2.5	Pass
				0	3.85	-43.502	-0.0520	-2.5 to 2.5	Pass
				10	3.85	-41.270	-0.0493	-2.5 to 2.5	Pass
				30	3.85	-46.291	-0.0553	-2.5 to 2.5	Pass
				40	3.85	-2.875	-0.0034	-2.5 to 2.5	Pass
	50	3.85	-10.743	-0.0128	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-7.153	-0.0084	-2.5 to 2.5	Pass
					3.85	-6.080	-0.0072	-2.5 to 2.5	Pass
					4.43	-11.702	-0.0138	-2.5 to 2.5	Pass
				-30	3.85	-17.309	-0.0204	-2.5 to 2.5	Pass
				-20	3.85	-24.805	-0.0293	-2.5 to 2.5	Pass
				-10	3.85	-30.670	-0.0362	-2.5 to 2.5	Pass
				0	3.85	-33.045	-0.0390	-2.5 to 2.5	Pass
				10	3.85	-38.781	-0.0458	-2.5 to 2.5	Pass
30				3.85	-47.164	-0.0557	-2.5 to 2.5	Pass	
40				3.85	-3.419	-0.0040	-2.5 to 2.5	Pass	
50	3.85	-7.539	-0.0089	-2.5 to 2.5	Pass				
16QAM	825.5	15	0	20	3.27	-37.723	-0.0457	-2.5 to 2.5	Pass
					3.85	-1.316	-0.0016	-2.5 to 2.5	Pass
					4.43	-14.205	-0.0172	-2.5 to 2.5	Pass
				-30	3.85	-23.804	-0.0288	-2.5 to 2.5	Pass
				-20	3.85	-33.717	-0.0408	-2.5 to 2.5	Pass
				-10	3.85	-37.050	-0.0449	-2.5 to 2.5	Pass
				0	3.85	-45.662	-0.0553	-2.5 to 2.5	Pass
				10	3.85	-11.644	-0.0141	-2.5 to 2.5	Pass
				30	3.85	-21.200	-0.0257	-2.5 to 2.5	Pass
				40	3.85	-20.399	-0.0247	-2.5 to 2.5	Pass
	50	3.85	-19.012	-0.0230	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-18.568	-0.0222	-2.5 to 2.5	Pass
					3.85	-28.453	-0.0340	-2.5 to 2.5	Pass
					4.43	-39.396	-0.0471	-2.5 to 2.5	Pass
				-30	3.85	-44.131	-0.0528	-2.5 to 2.5	Pass
				-20	3.85	-45.819	-0.0548	-2.5 to 2.5	Pass
				-10	3.85	-46.620	-0.0557	-2.5 to 2.5	Pass
				0	3.85	-45.705	-0.0546	-2.5 to 2.5	Pass
				10	3.85	-46.005	-0.0550	-2.5 to 2.5	Pass
				30	3.85	-47.207	-0.0564	-2.5 to 2.5	Pass
40				3.85	-45.404	-0.0543	-2.5 to 2.5	Pass	

	847.5	15	0	50	3.85	-45.590	-0.0545	-2.5 to 2.5	Pass
				20	3.27	-13.947	-0.0165	-2.5 to 2.5	Pass
					3.85	-20.843	-0.0246	-2.5 to 2.5	Pass
					4.43	-28.825	-0.0340	-2.5 to 2.5	Pass
				-30	3.85	-35.305	-0.0417	-2.5 to 2.5	Pass
				-20	3.85	-40.011	-0.0472	-2.5 to 2.5	Pass
				-10	3.85	-37.766	-0.0446	-2.5 to 2.5	Pass
				0	3.85	-32.272	-0.0381	-2.5 to 2.5	Pass
				10	3.85	-36.020	-0.0425	-2.5 to 2.5	Pass
				30	3.85	-41.800	-0.0493	-2.5 to 2.5	Pass
				40	3.85	-40.126	-0.0473	-2.5 to 2.5	Pass
				50	3.85	-42.386	-0.0500	-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	11.430	0.0138	-2.5 to 2.5	Pass
					3.85	27.266	0.0330	-2.5 to 2.5	Pass
					4.43	37.665	0.0456	-2.5 to 2.5	Pass
				-30	3.85	44.088	0.0533	-2.5 to 2.5	Pass
				-20	3.85	46.234	0.0559	-2.5 to 2.5	Pass
				-10	3.85	45.290	0.0548	-2.5 to 2.5	Pass
				0	3.85	39.239	0.0475	-2.5 to 2.5	Pass
				10	3.85	33.674	0.0407	-2.5 to 2.5	Pass
				30	3.85	26.708	0.0323	-2.5 to 2.5	Pass
				40	3.85	15.035	0.0182	-2.5 to 2.5	Pass
				50	3.85	4.721	0.0057	-2.5 to 2.5	Pass
				836.5	25	0	20	3.27	-8.011
	3.85	-12.045	-0.0144					-2.5 to 2.5	Pass
	4.43	-9.398	-0.0112					-2.5 to 2.5	Pass
	-30	3.85	-9.484				-0.0113	-2.5 to 2.5	Pass
	-20	3.85	-12.088				-0.0145	-2.5 to 2.5	Pass
	-10	3.85	-15.750				-0.0188	-2.5 to 2.5	Pass
	0	3.85	-22.388				-0.0268	-2.5 to 2.5	Pass
	10	3.85	-22.860				-0.0273	-2.5 to 2.5	Pass
	30	3.85	-23.518				-0.0281	-2.5 to 2.5	Pass
	40	3.85	-30.313				-0.0362	-2.5 to 2.5	Pass
	50	3.85	-33.331				-0.0398	-2.5 to 2.5	Pass
	846.5	25	0				20	3.27	-1.659
				3.85	-3.605	-0.0043		-2.5 to 2.5	Pass
				4.43	-8.068	-0.0095		-2.5 to 2.5	Pass
				-30	3.85	-10.715	-0.0127	-2.5 to 2.5	Pass
				-20	3.85	-11.802	-0.0139	-2.5 to 2.5	Pass
-10				3.85	-10.200	-0.0120	-2.5 to 2.5	Pass	
0				3.85	-12.331	-0.0146	-2.5 to 2.5	Pass	
10				3.85	-11.358	-0.0134	-2.5 to 2.5	Pass	
30				3.85	-18.053	-0.0213	-2.5 to 2.5	Pass	
40				3.85	-16.837	-0.0199	-2.5 to 2.5	Pass	
50				3.85	-23.704	-0.0280	-2.5 to 2.5	Pass	
16QAM				826.5	25	0	20	3.27	-5.350
	3.85	-13.762	-0.0167					-2.5 to 2.5	Pass
	4.43	-23.317	-0.0282					-2.5 to 2.5	Pass
	-30	3.85	-33.946				-0.0411	-2.5 to 2.5	Pass

	836.5	25	0	-20	3.85	-43.287	-0.0524	-2.5 to 2.5	Pass			
				-10	3.85	-5.922	-0.0072	-2.5 to 2.5	Pass			
				0	3.85	-12.217	-0.0148	-2.5 to 2.5	Pass			
				10	3.85	-14.005	-0.0169	-2.5 to 2.5	Pass			
				30	3.85	-14.849	-0.0180	-2.5 to 2.5	Pass			
				40	3.85	-21.973	-0.0266	-2.5 to 2.5	Pass			
				50	3.85	-26.865	-0.0325	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.27	-35.548	-0.0425	-2.5 to 2.5	Pass			
					3.85	-32.029	-0.0383	-2.5 to 2.5	Pass			
					4.43	-34.547	-0.0413	-2.5 to 2.5	Pass			
				-30	3.85	-41.842	-0.0500	-2.5 to 2.5	Pass			
				-20	3.85	-48.480	-0.0580	-2.5 to 2.5	Pass			
				-10	3.85	1.960	0.0023	-2.5 to 2.5	Pass			
				0	3.85	1.702	0.0020	-2.5 to 2.5	Pass			
				10	3.85	-4.120	-0.0049	-2.5 to 2.5	Pass			
				30	3.85	-7.410	-0.0089	-2.5 to 2.5	Pass			
				40	3.85	-7.195	-0.0086	-2.5 to 2.5	Pass			
				50	3.85	-8.154	-0.0097	-2.5 to 2.5	Pass			
				846.5	25	0	20	3.27	-31.629	-0.0374	-2.5 to 2.5	Pass
								3.85	-35.520	-0.0420	-2.5 to 2.5	Pass
	4.43	-25.377	-0.0300					-2.5 to 2.5	Pass			
	-30	3.85	-24.962				-0.0295	-2.5 to 2.5	Pass			
	-20	3.85	-31.657				-0.0374	-2.5 to 2.5	Pass			
	-10	3.85	-28.625				-0.0338	-2.5 to 2.5	Pass			
	0	3.85	-26.236				-0.0310	-2.5 to 2.5	Pass			
	10	3.85	-29.483				-0.0348	-2.5 to 2.5	Pass			
	30	3.85	-35.777				-0.0423	-2.5 to 2.5	Pass			
	40	3.85	-44.189				-0.0522	-2.5 to 2.5	Pass			
	50	3.85	-5.193	-0.0061	-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	9.699	0.0117	-2.5 to 2.5	Pass
					3.85	29.383	0.0354	-2.5 to 2.5	Pass
					4.43	-0.229	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	6.738	0.0081	-2.5 to 2.5	Pass
				-20	3.85	4.463	0.0054	-2.5 to 2.5	Pass
				-10	3.85	-5.364	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-14.606	-0.0176	-2.5 to 2.5	Pass
				10	3.85	-26.979	-0.0325	-2.5 to 2.5	Pass
				30	3.85	-38.023	-0.0459	-2.5 to 2.5	Pass
				40	3.85	-0.930	-0.0011	-2.5 to 2.5	Pass
	50	3.85	-11.158	-0.0135	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.27	-4.349	-0.0052	-2.5 to 2.5	Pass
					3.85	-3.977	-0.0048	-2.5 to 2.5	Pass
					4.43	-5.608	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-9.413	-0.0113	-2.5 to 2.5	Pass
				-20	3.85	-14.019	-0.0168	-2.5 to 2.5	Pass
				-10	3.85	-19.598	-0.0234	-2.5 to 2.5	Pass
				0	3.85	-25.320	-0.0303	-2.5 to 2.5	Pass
				10	3.85	-34.647	-0.0414	-2.5 to 2.5	Pass
				30	3.85	-35.777	-0.0428	-2.5 to 2.5	Pass



				40	3.85	-38.681	-0.0462	-2.5 to 2.5	Pass			
				50	3.85	-25.706	-0.0307	-2.5 to 2.5	Pass			
				20	3.27	0.358	0.0004	-2.5 to 2.5	Pass			
					3.85	6.280	0.0074	-2.5 to 2.5	Pass			
					4.43	5.007	0.0059	-2.5 to 2.5	Pass			
				-30	3.85	3.548	0.0042	-2.5 to 2.5	Pass			
				-20	3.85	2.918	0.0035	-2.5 to 2.5	Pass			
				-10	3.85	-0.973	-0.0012	-2.5 to 2.5	Pass			
				0	3.85	-7.095	-0.0084	-2.5 to 2.5	Pass			
				10	3.85	-16.265	-0.0193	-2.5 to 2.5	Pass			
				30	3.85	-18.682	-0.0221	-2.5 to 2.5	Pass			
				40	3.85	-20.127	-0.0238	-2.5 to 2.5	Pass			
				50	3.85	-21.429	-0.0254	-2.5 to 2.5	Pass			
				16QAM	829	50	0	20	3.27	-25.048	-0.0302	-2.5 to 2.5
3.85	-38.524	-0.0465	-2.5 to 2.5						Pass			
4.43	-40.984	-0.0494	-2.5 to 2.5						Pass			
-30	3.85	-46.577	-0.0562					-2.5 to 2.5	Pass			
-20	3.85	-34.976	-0.0422					-2.5 to 2.5	Pass			
-10	3.85	-9.842	-0.0119					-2.5 to 2.5	Pass			
0	3.85	-11.301	-0.0136					-2.5 to 2.5	Pass			
10	3.85	-17.867	-0.0216					-2.5 to 2.5	Pass			
30	3.85	-23.503	-0.0284					-2.5 to 2.5	Pass			
40	3.85	-29.655	-0.0358					-2.5 to 2.5	Pass			
50	3.85	-36.693	-0.0443					-2.5 to 2.5	Pass			
836.5	50	0	20					3.27	-3.819	-0.0046	-2.5 to 2.5	Pass
								3.85	-4.048	-0.0048	-2.5 to 2.5	Pass
								4.43	-2.818	-0.0034	-2.5 to 2.5	Pass
			-30		3.85	-0.072	-0.0001	-2.5 to 2.5	Pass			
			-20		3.85	-0.901	-0.0011	-2.5 to 2.5	Pass			
			-10		3.85	-9.270	-0.0111	-2.5 to 2.5	Pass			
			0		3.85	-15.349	-0.0183	-2.5 to 2.5	Pass			
			10		3.85	-15.965	-0.0191	-2.5 to 2.5	Pass			
			30		3.85	-18.525	-0.0221	-2.5 to 2.5	Pass			
			40		3.85	-17.681	-0.0211	-2.5 to 2.5	Pass			
			50		3.85	-21.114	-0.0252	-2.5 to 2.5	Pass			
			844		50	0	20	3.27	-28.095	-0.0333	-2.5 to 2.5	Pass
								3.85	-27.695	-0.0328	-2.5 to 2.5	Pass
								4.43	-31.242	-0.0370	-2.5 to 2.5	Pass
-30	3.85	-37.107					-0.0440	-2.5 to 2.5	Pass			
-20	3.85	-40.140					-0.0476	-2.5 to 2.5	Pass			
-10	3.85	-40.455					-0.0479	-2.5 to 2.5	Pass			
0	3.85	8.483		0.0101			-2.5 to 2.5	Pass				
10	3.85	13.232		0.0157			-2.5 to 2.5	Pass				
30	3.85	15.807		0.0187			-2.5 to 2.5	Pass				
40	3.85	16.451		0.0195			-2.5 to 2.5	Pass				
50	3.85	18.897		0.0224			-2.5 to 2.5	Pass				

### 3. Modulation Characteristics

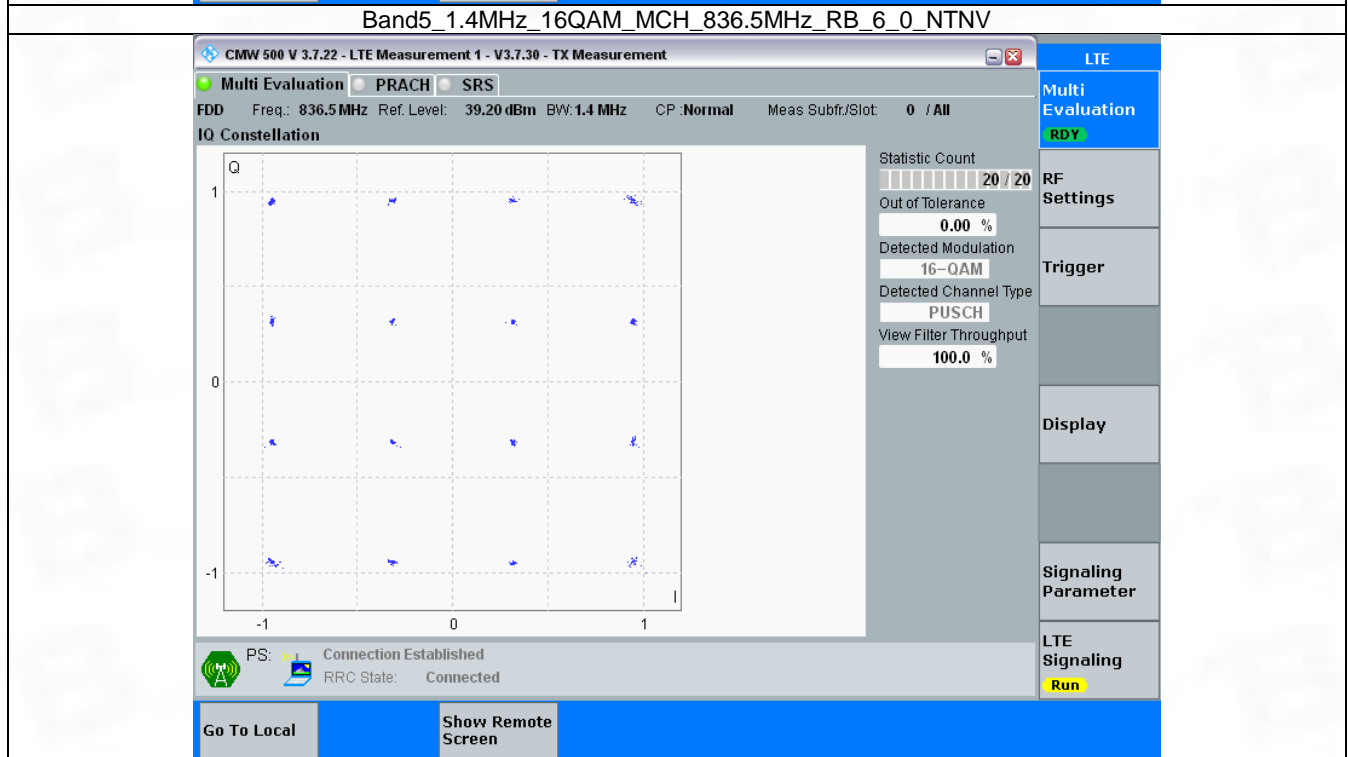
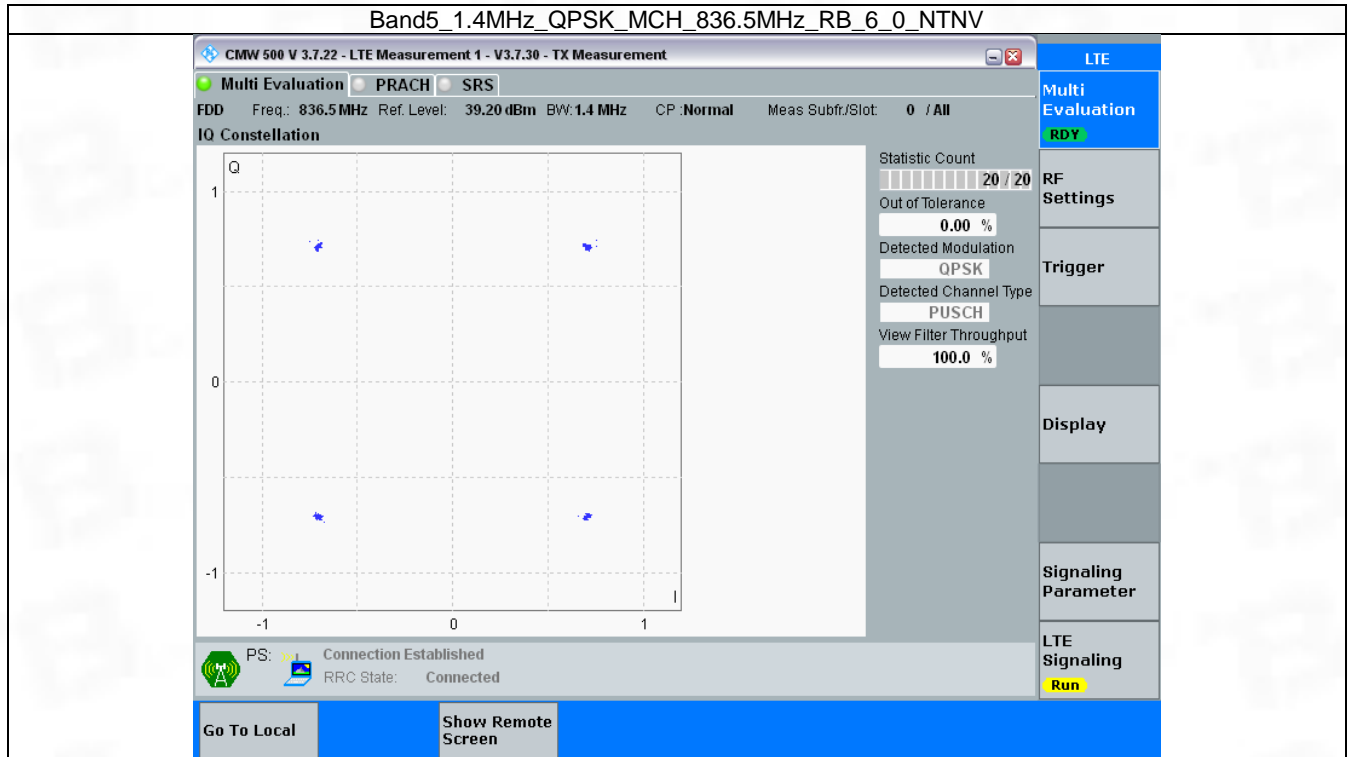
#### 3.1 B5\_1.4MHz

##### 3.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV						
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

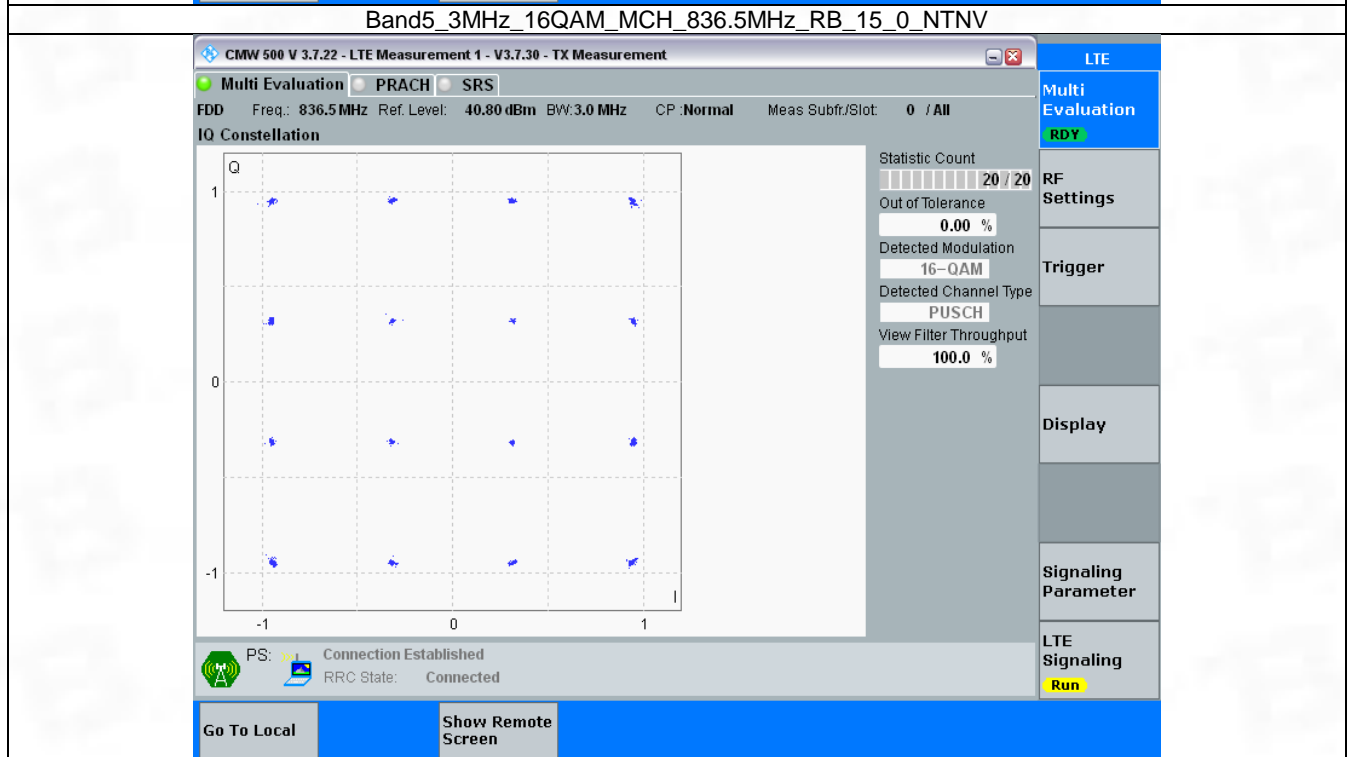
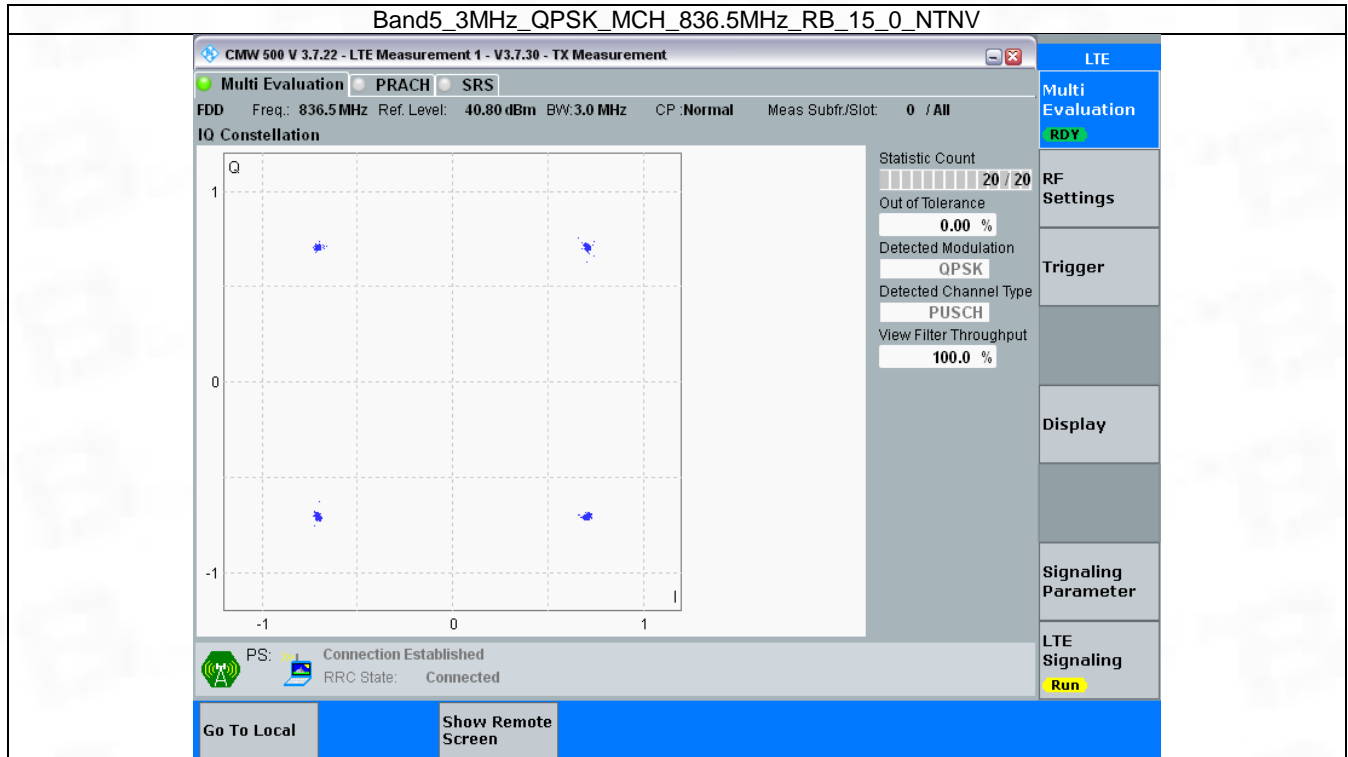


### 3.2 B5\_3MHz

#### 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

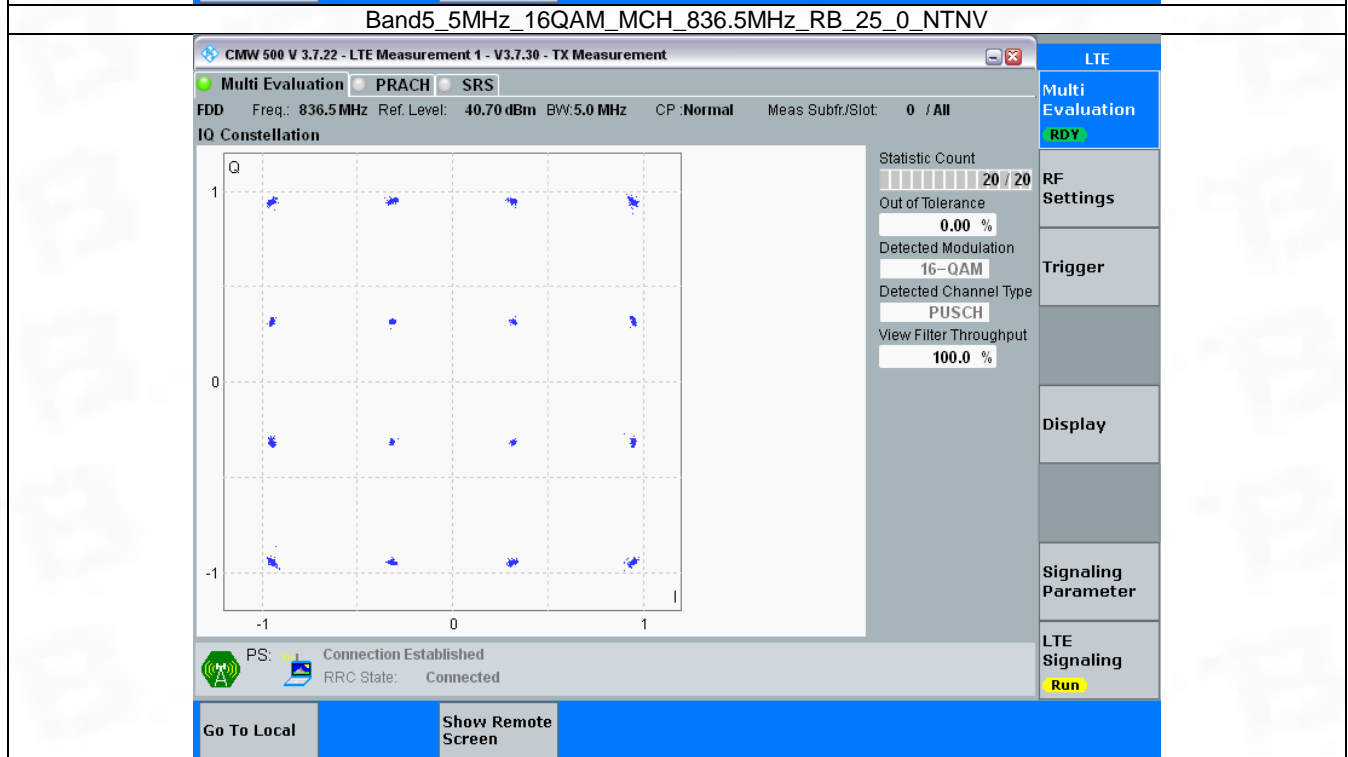
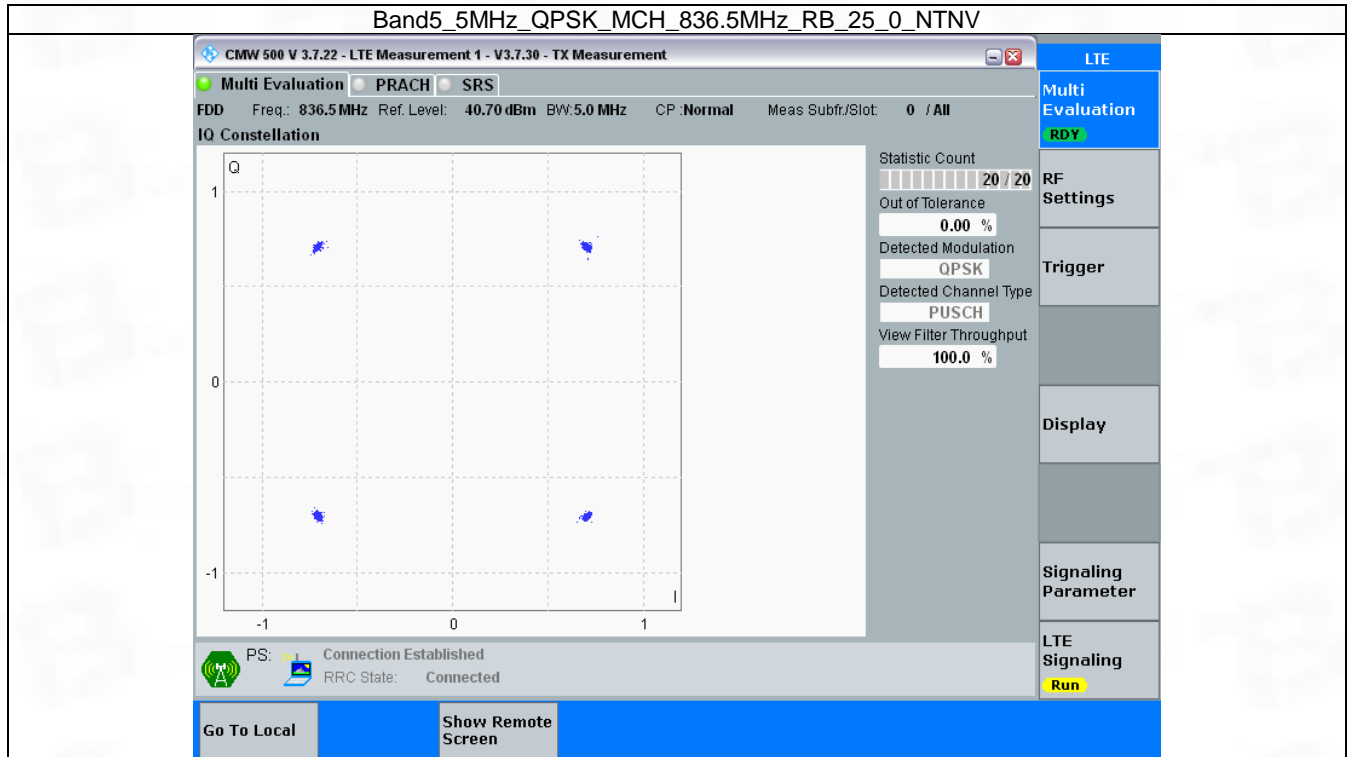


3.3 B5\_5MHz

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



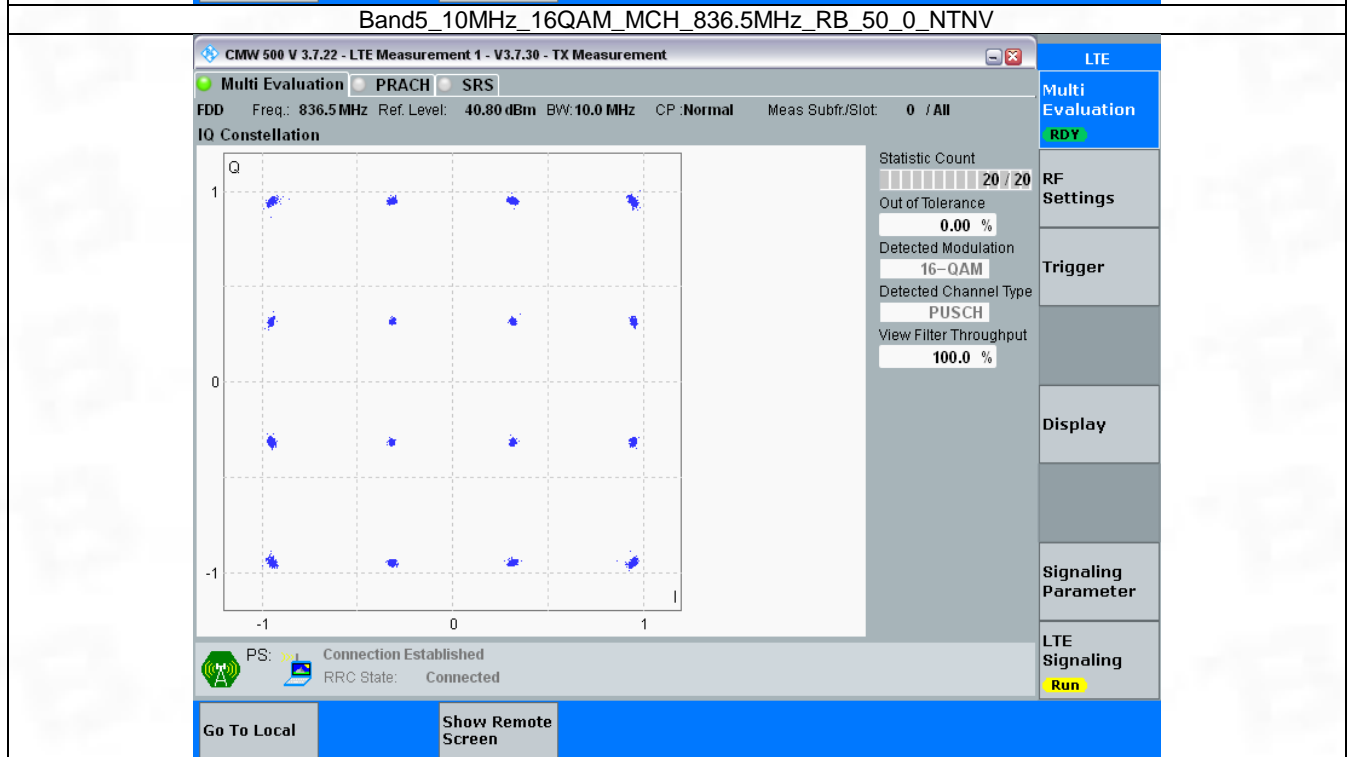
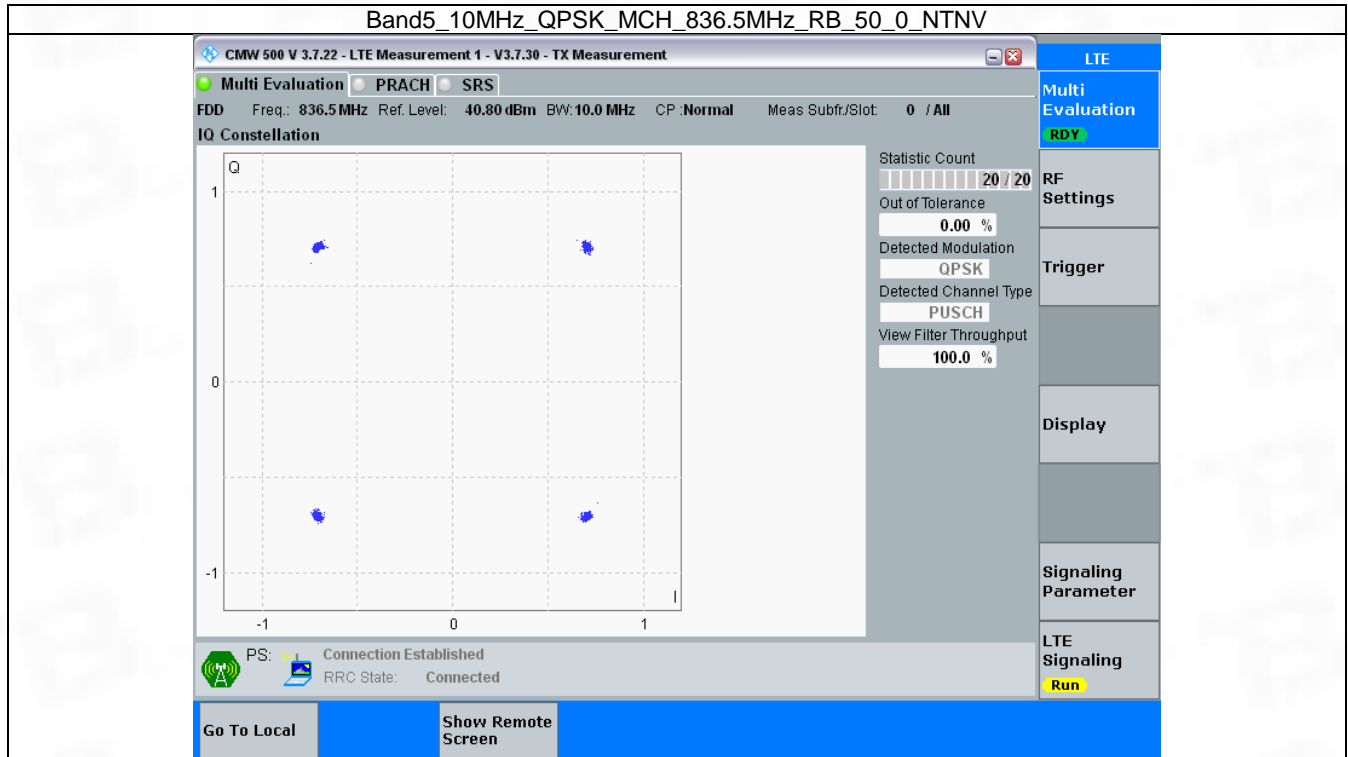
### 3.4 B5\_10MHz

#### 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



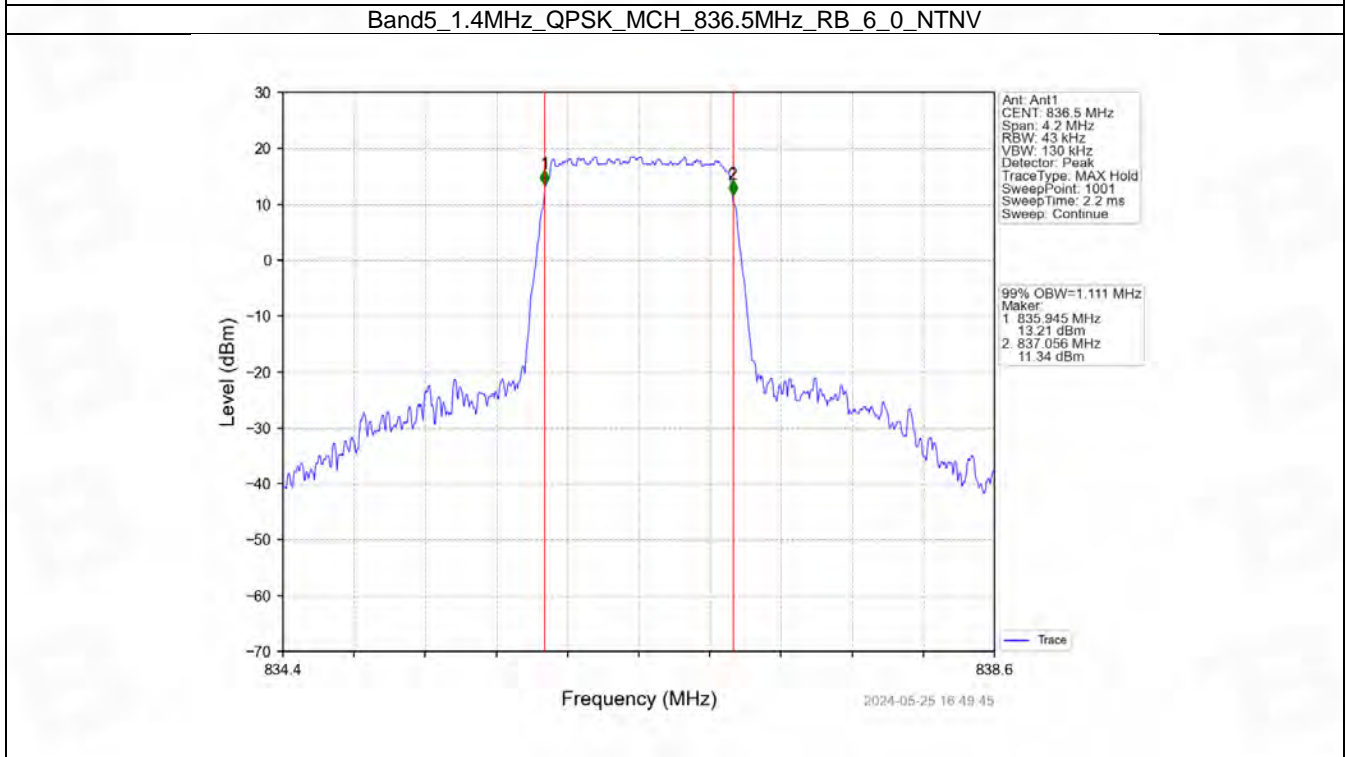
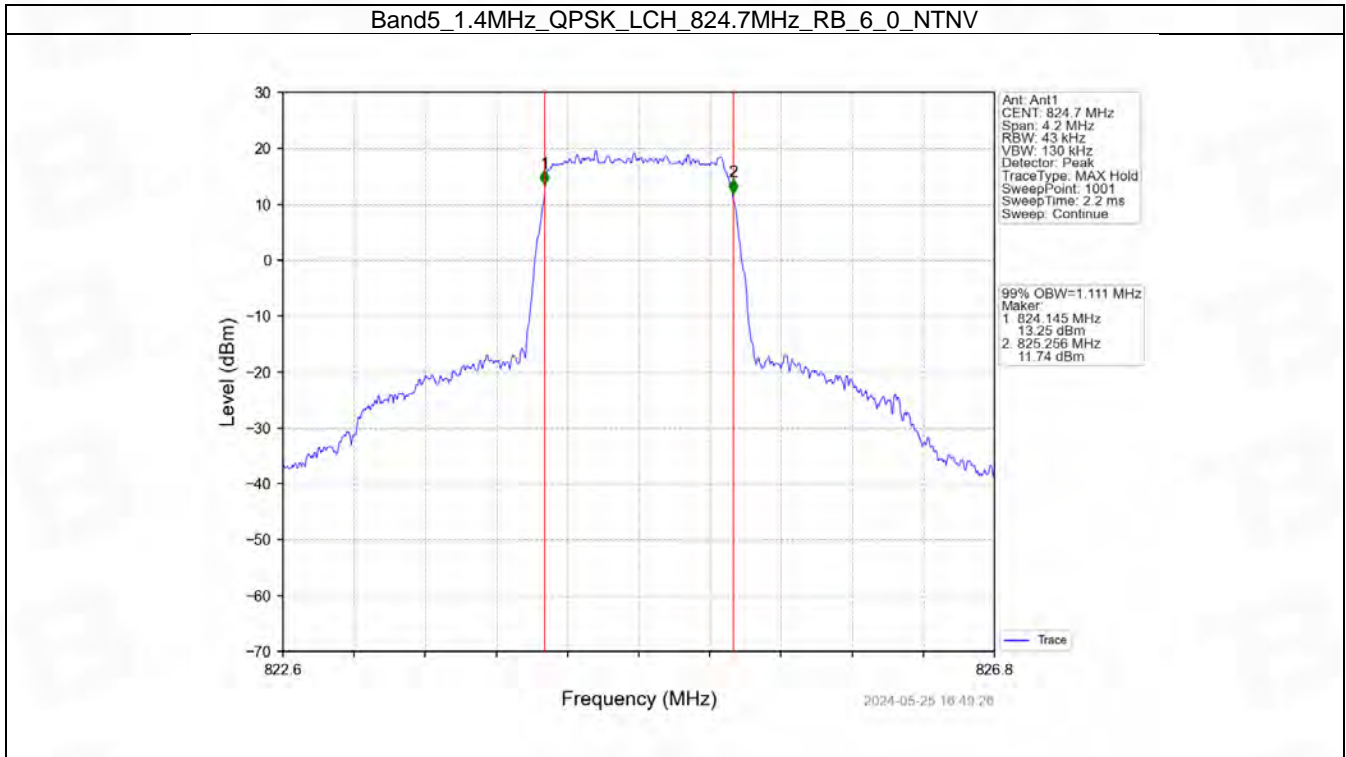
## 4. 99% & 26dB Bandwidth

### 4.1 Band5\_OBW

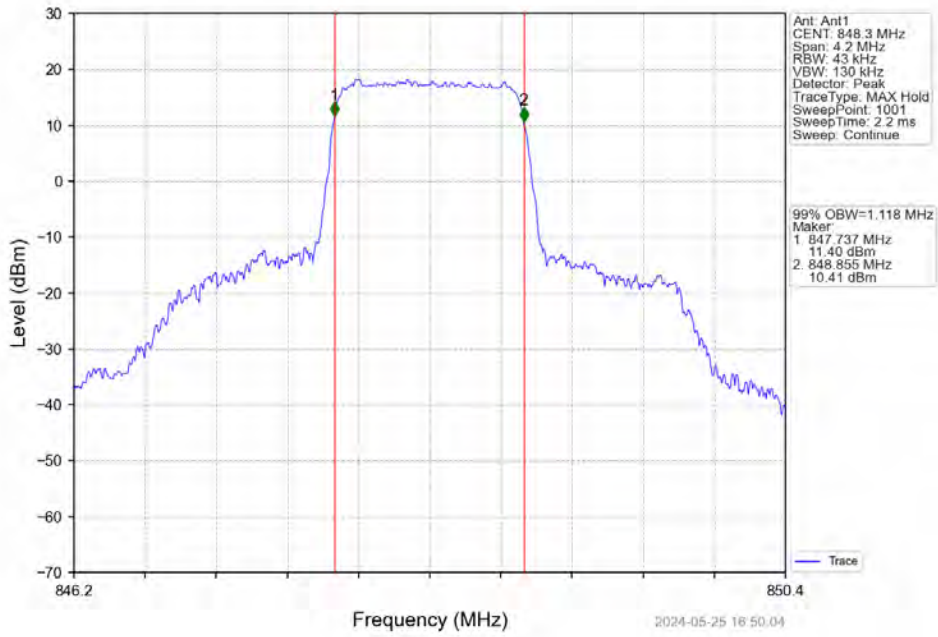
#### 4.1.1 Test Result

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	1.111	/	Pass
		836.5	6	0	1.111	/	Pass
		848.3	6	0	1.118	/	Pass
	16QAM	824.7	6	0	1.106	/	Pass
		836.5	6	0	1.108	/	Pass
		848.3	6	0	1.119	/	Pass
3	QPSK	825.5	15	0	2.761	/	Pass
		836.5	15	0	2.739	/	Pass
		847.5	15	0	2.746	/	Pass
	16QAM	825.5	15	0	2.760	/	Pass
		836.5	15	0	2.750	/	Pass
		847.5	15	0	2.758	/	Pass
5	QPSK	826.5	25	0	4.554	/	Pass
		836.5	25	0	4.538	/	Pass
		846.5	25	0	4.539	/	Pass
	16QAM	826.5	25	0	4.577	/	Pass
		836.5	25	0	4.557	/	Pass
		846.5	25	0	4.534	/	Pass
10	QPSK	829	50	0	9.096	/	Pass
		836.5	50	0	9.034	/	Pass
		844	50	0	9.074	/	Pass
	16QAM	829	50	0	9.087	/	Pass
		836.5	50	0	9.057	/	Pass
		844	50	0	9.075	/	Pass

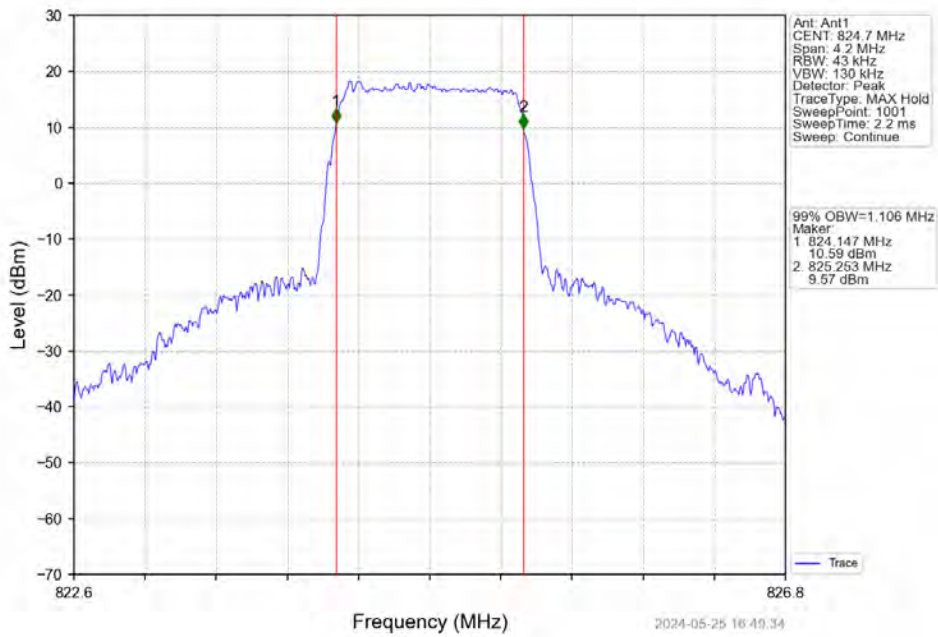
### 4.1.2 Test Graph



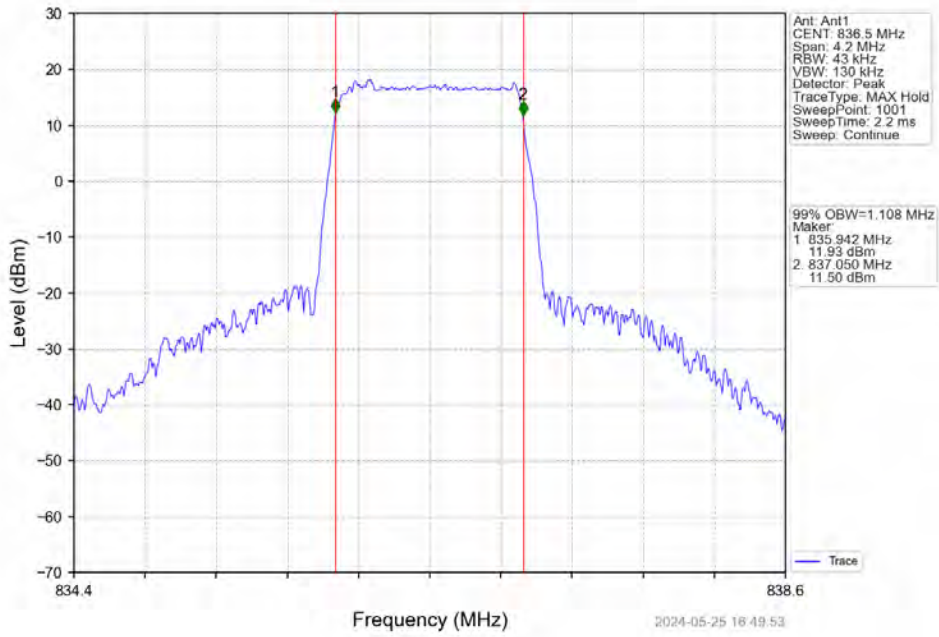
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



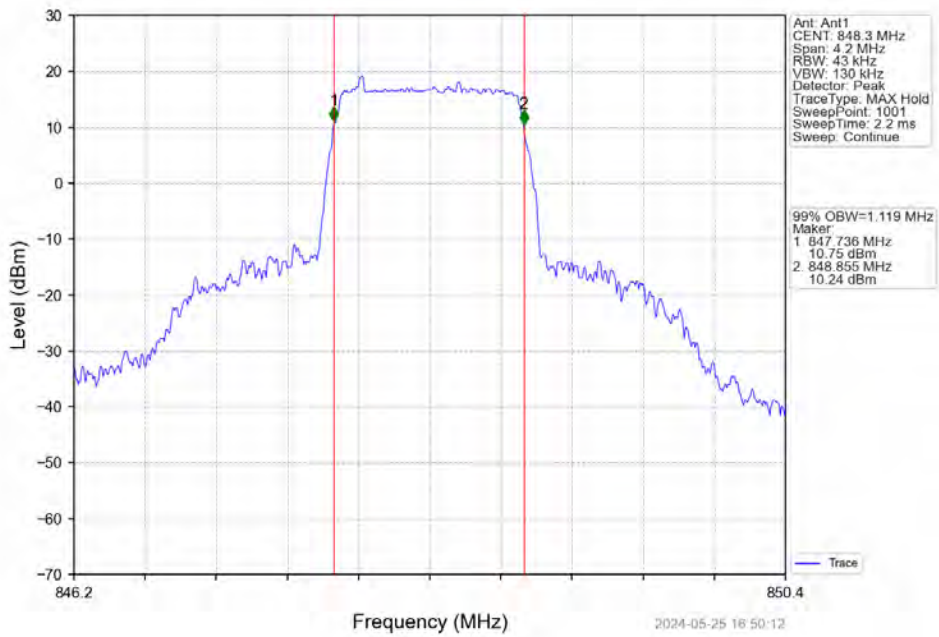
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



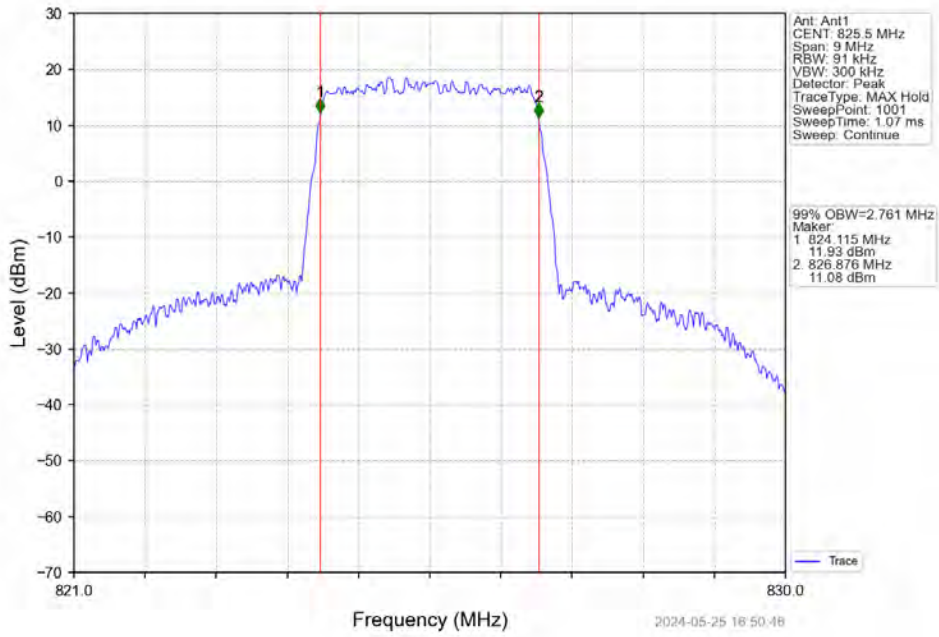
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



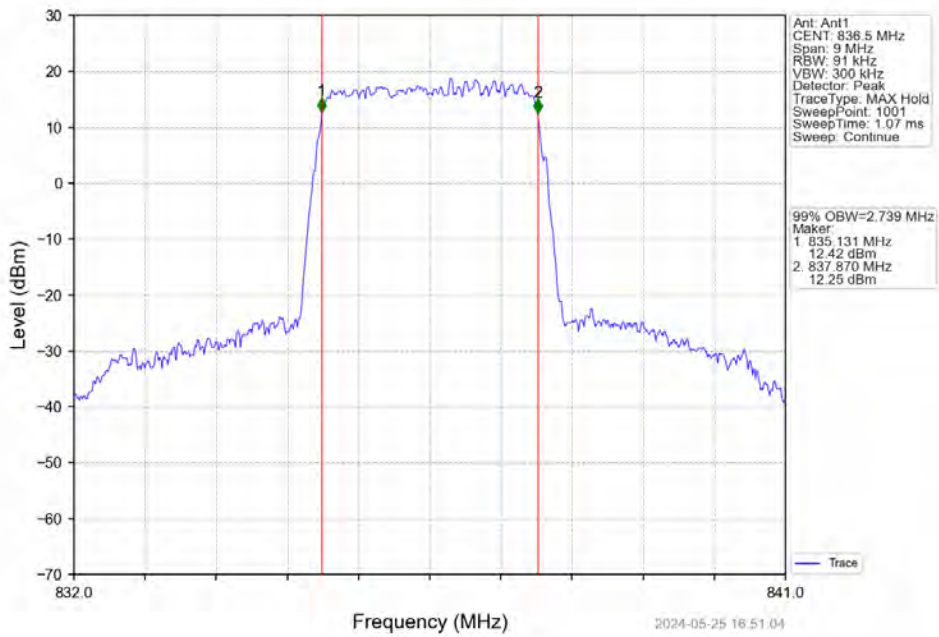
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



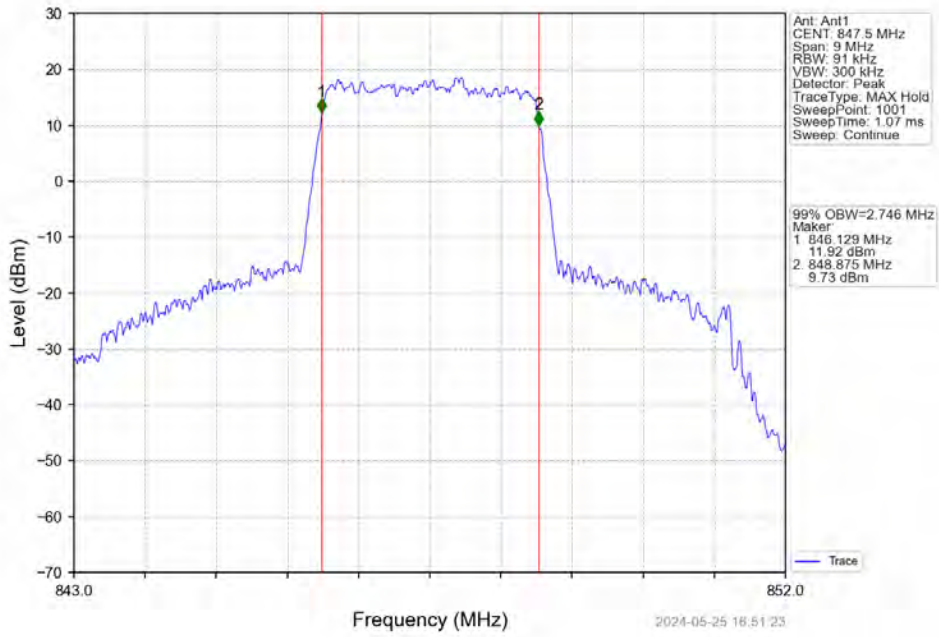
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



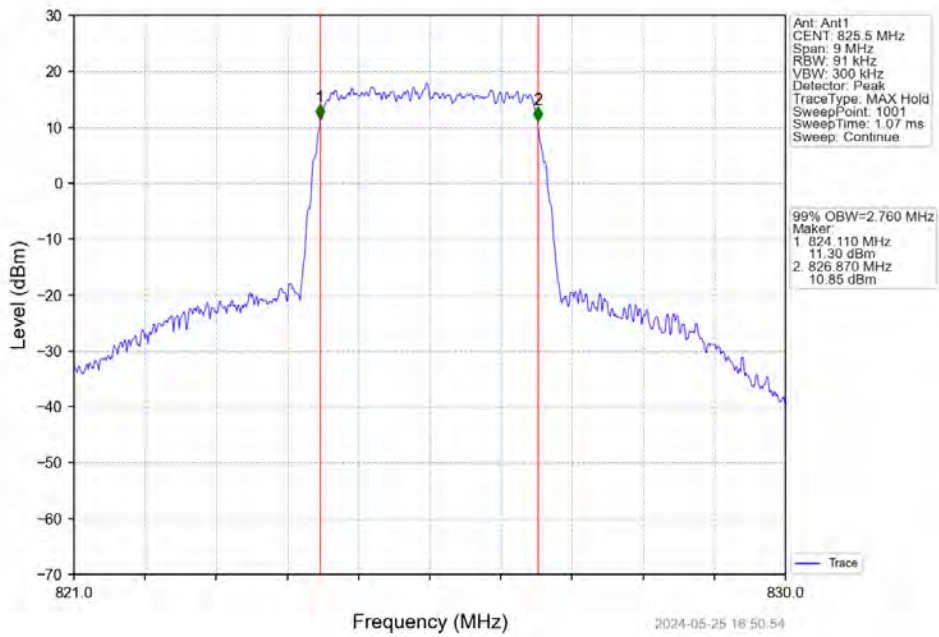
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



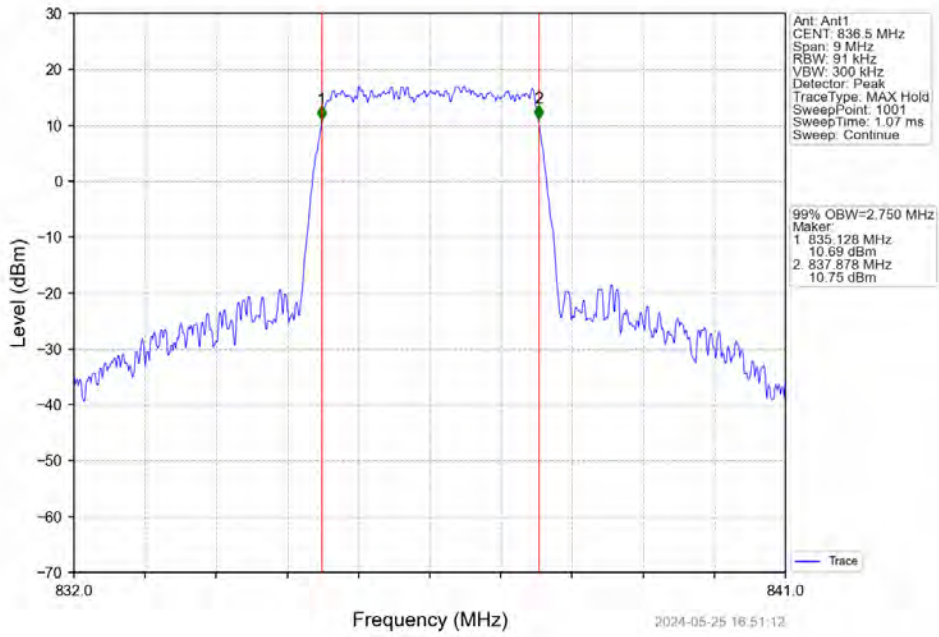
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



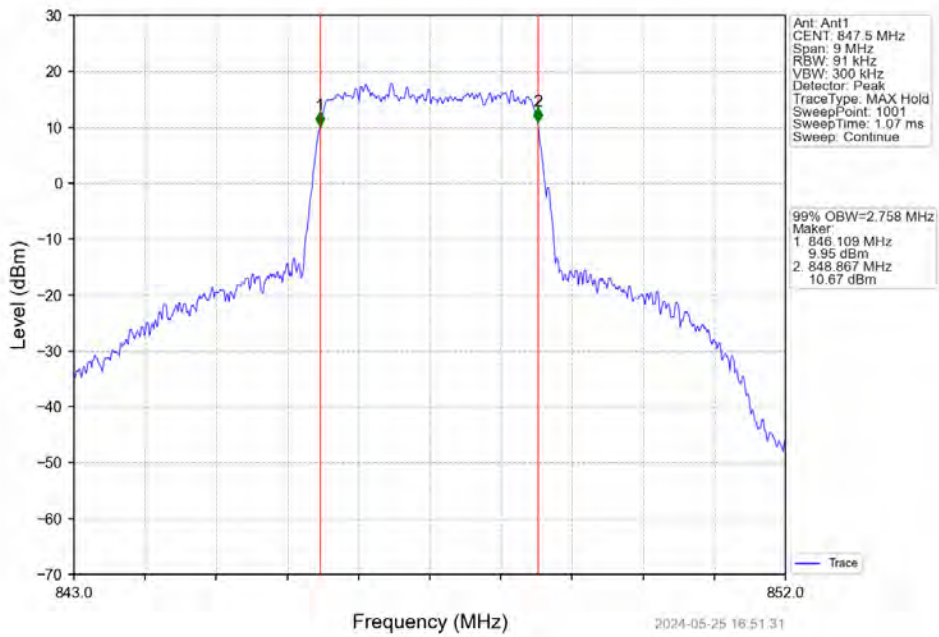
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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

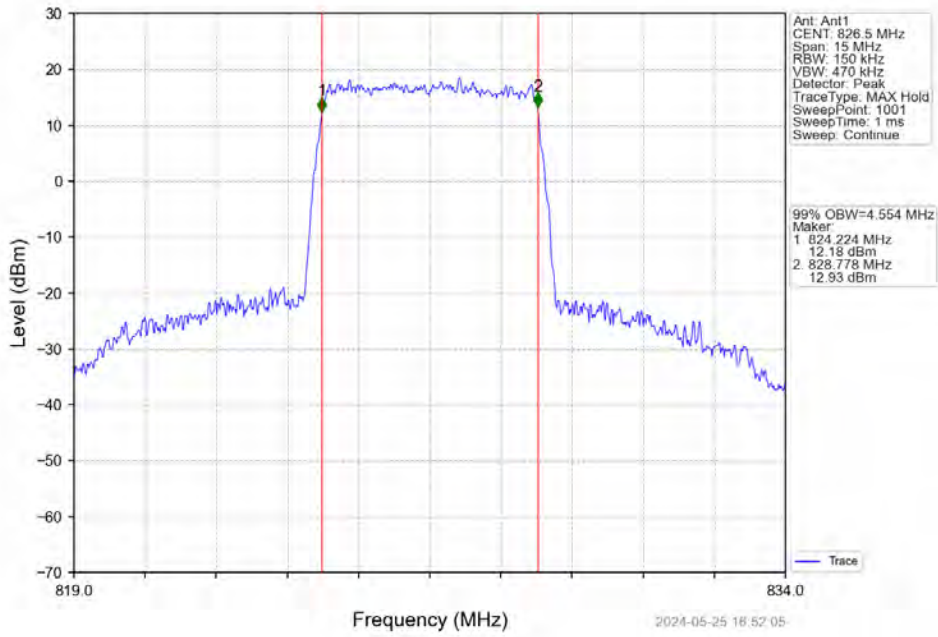


Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

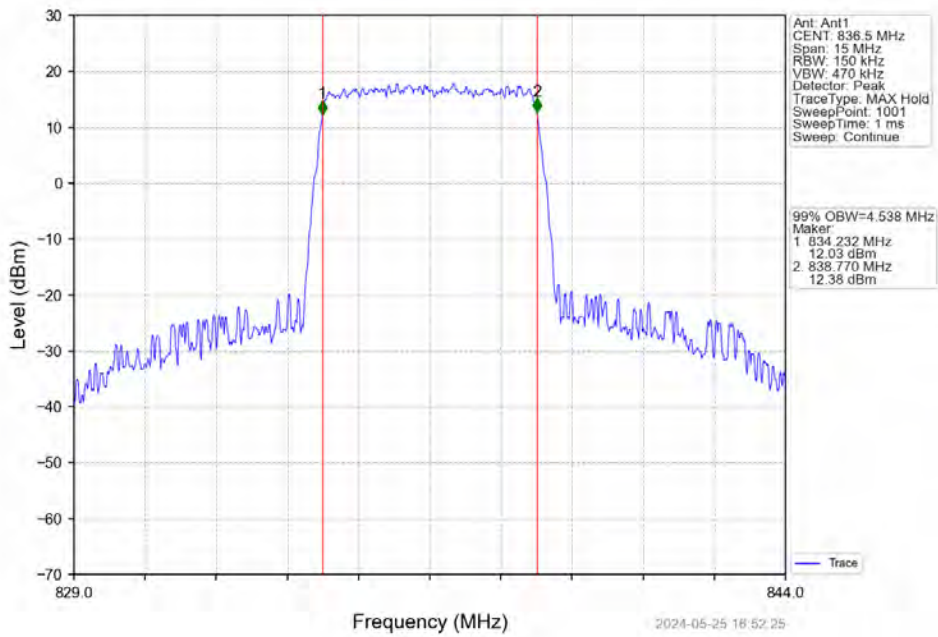




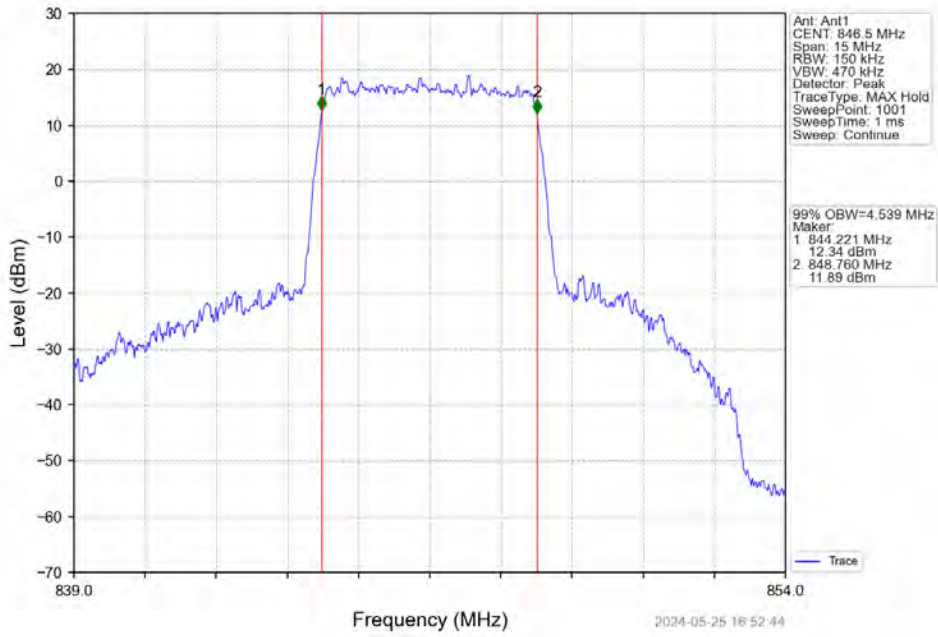
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



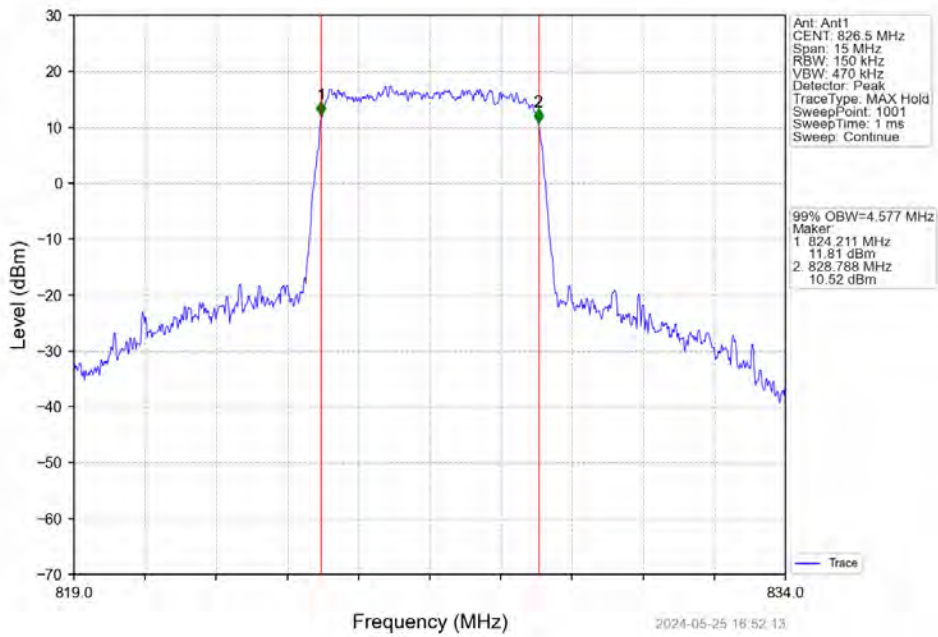
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



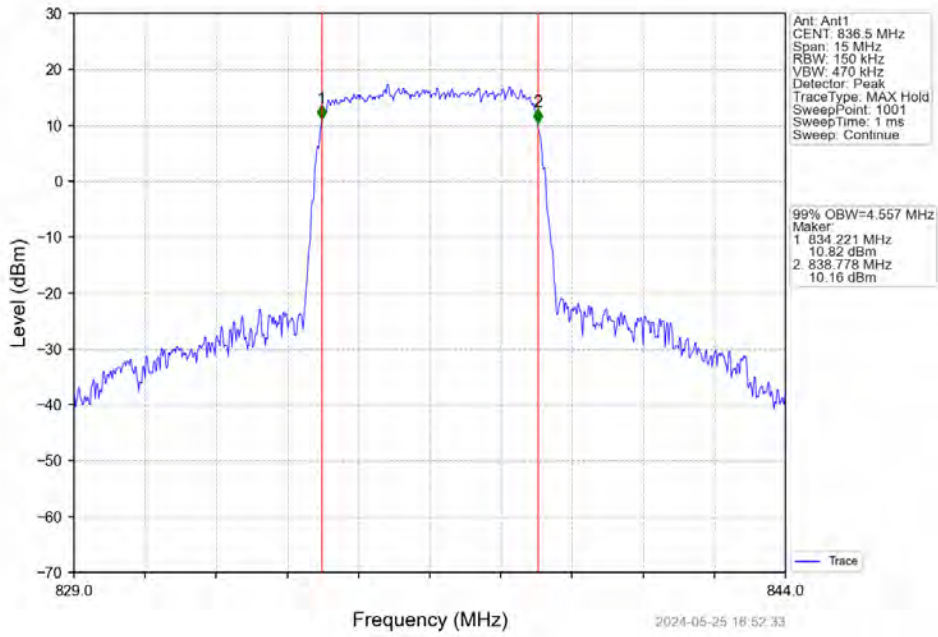
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



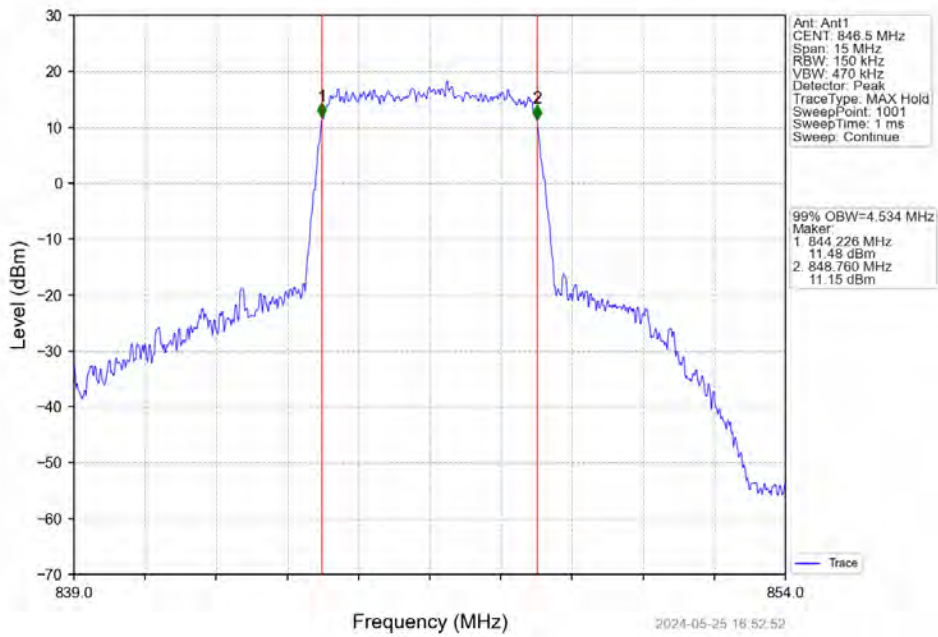
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



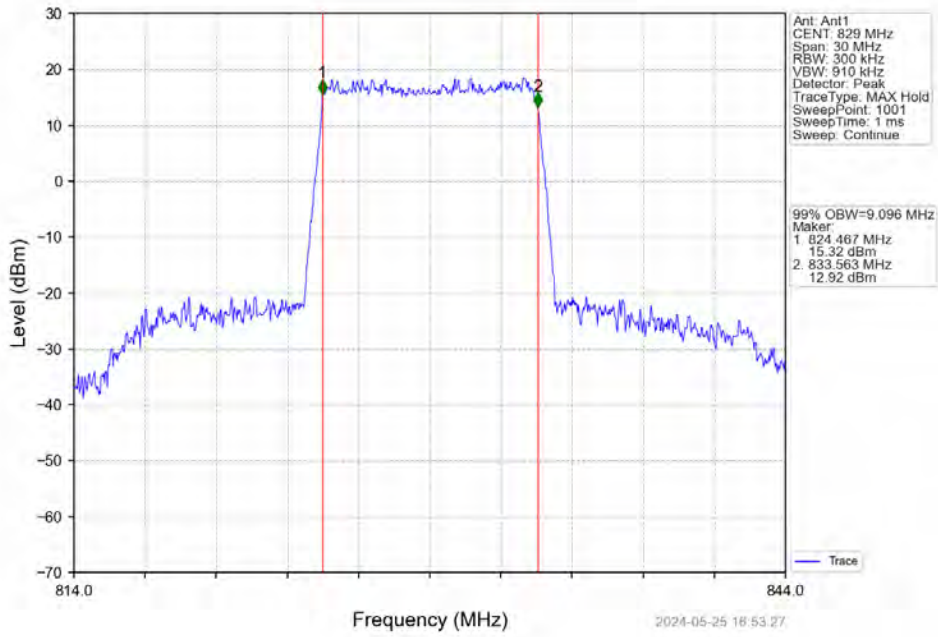
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



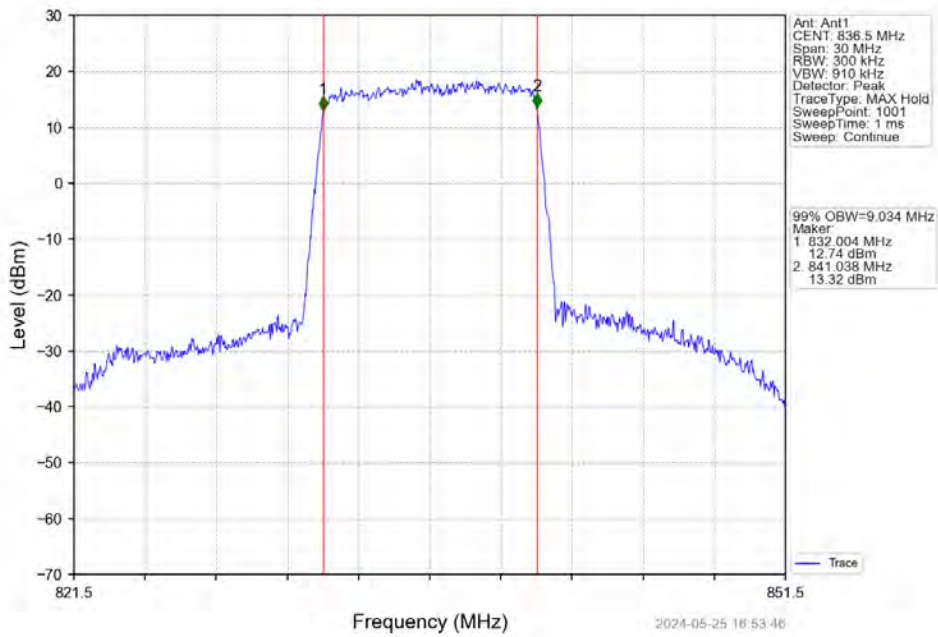
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



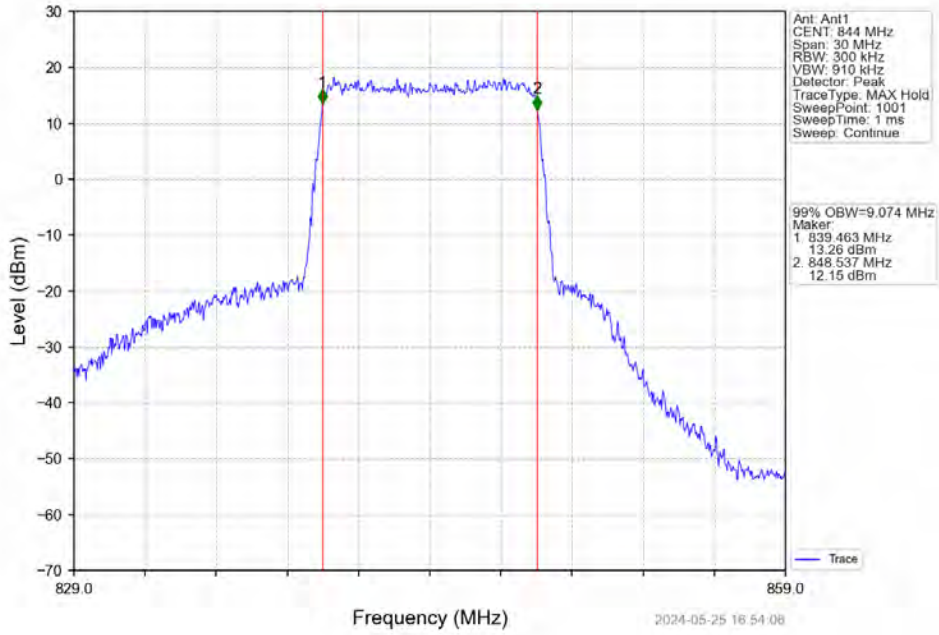
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



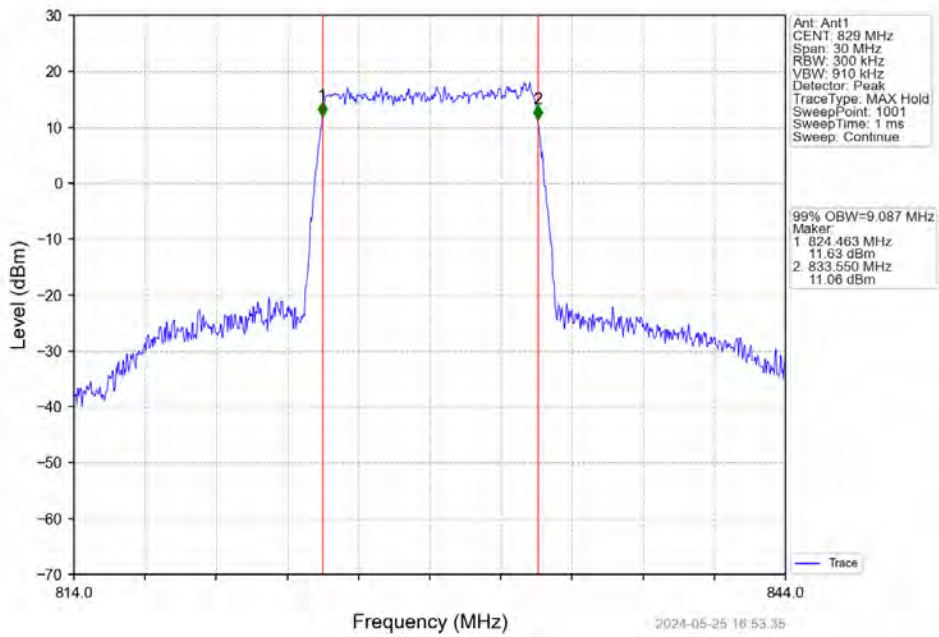
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



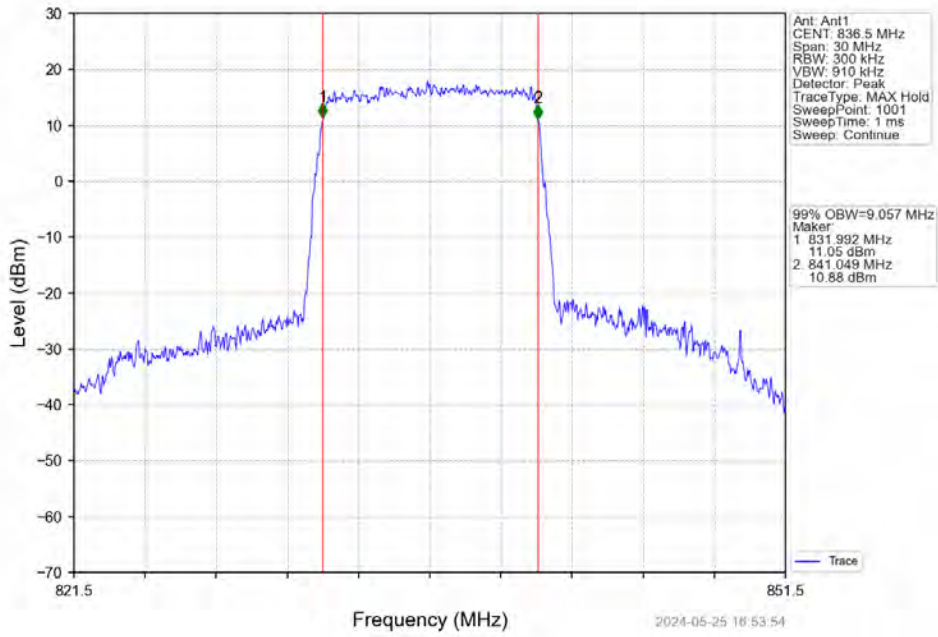
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



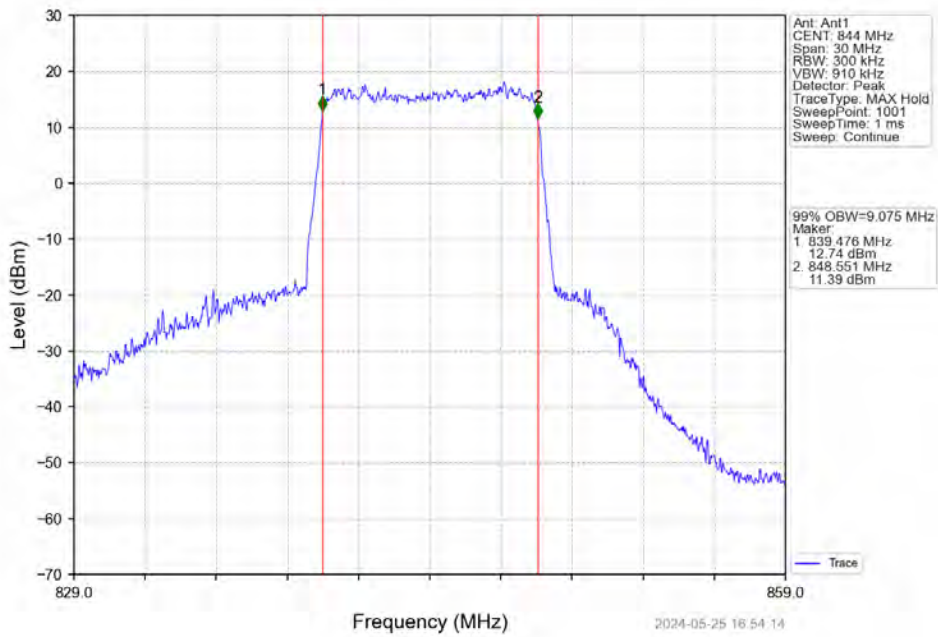
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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

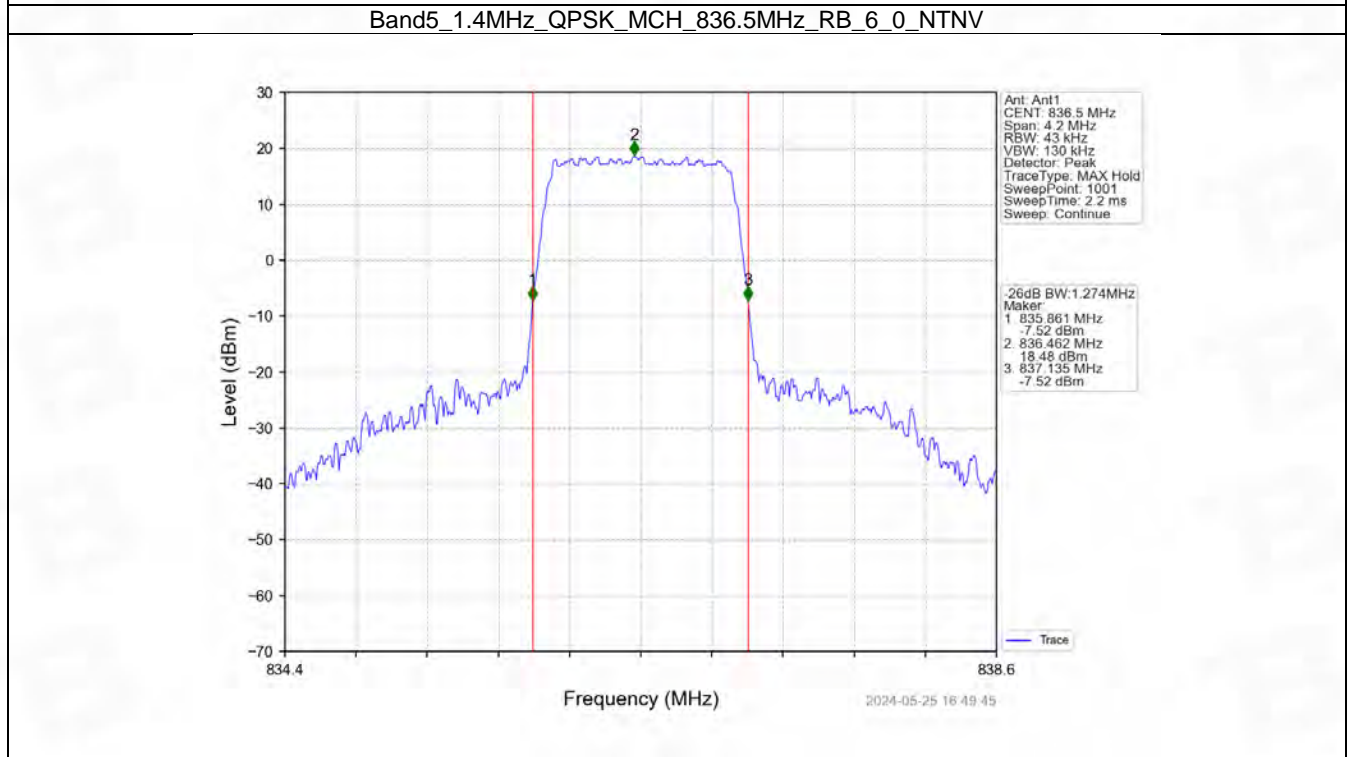
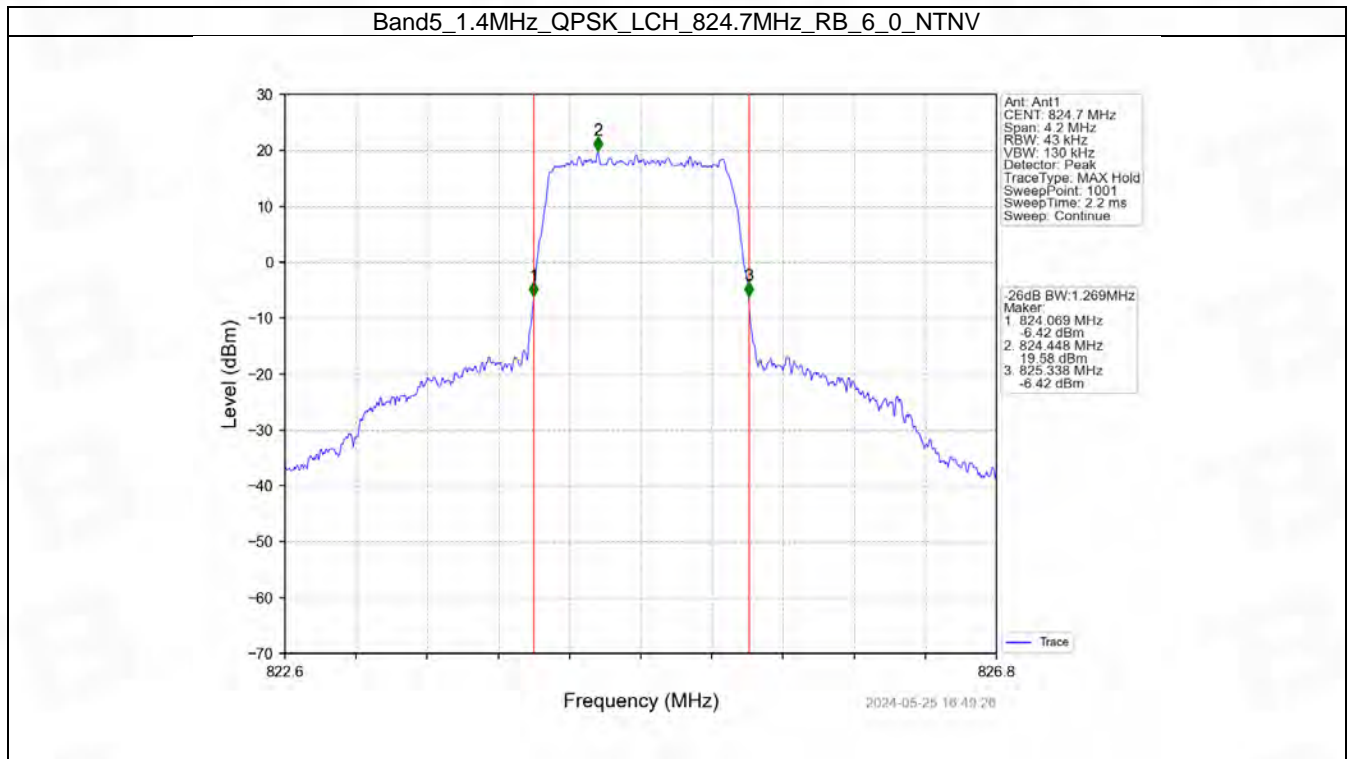


## 4.2 Band5\_XDB

### 4.2.1 Test Result

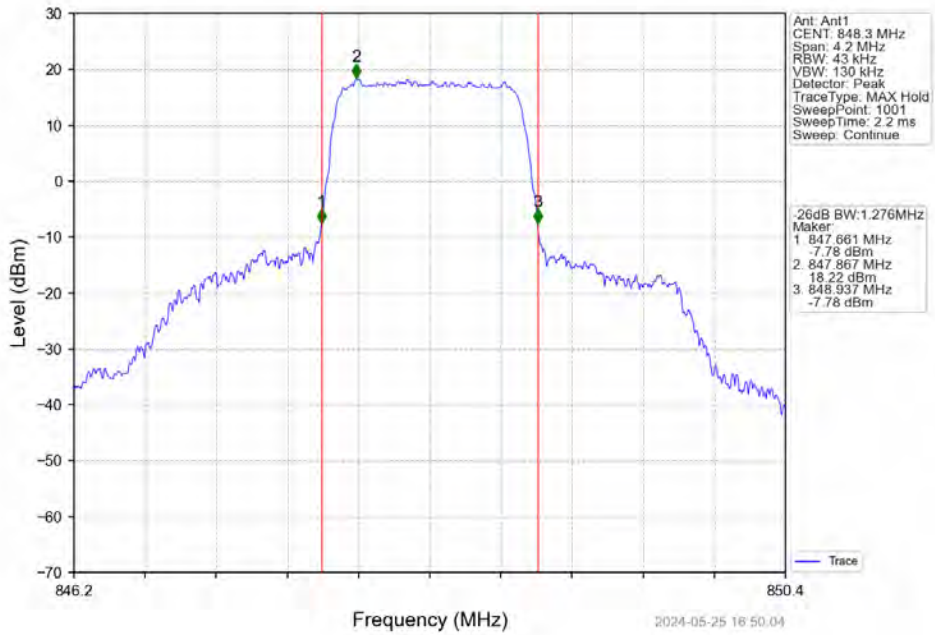
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.269	/	Pass
		836.5	6	0	1.274	/	Pass
		848.3	6	0	1.276	/	Pass
	16QAM	824.7	6	0	1.273	/	Pass
		836.5	6	0	1.271	/	Pass
		848.3	6	0	1.275	/	Pass
3	QPSK	825.5	15	0	3.111	/	Pass
		836.5	15	0	3.081	/	Pass
		847.5	15	0	3.108	/	Pass
	16QAM	825.5	15	0	3.123	/	Pass
		836.5	15	0	3.107	/	Pass
		847.5	15	0	3.107	/	Pass
5	QPSK	826.5	25	0	5.057	/	Pass
		836.5	25	0	5.049	/	Pass
		846.5	25	0	5.013	/	Pass
	16QAM	826.5	25	0	5.034	/	Pass
		836.5	25	0	5.041	/	Pass
		846.5	25	0	5.049	/	Pass
10	QPSK	829	50	0	10.040	/	Pass
		836.5	50	0	10.038	/	Pass
		844	50	0	10.100	/	Pass
	16QAM	829	50	0	10.087	/	Pass
		836.5	50	0	10.000	/	Pass
		844	50	0	10.067	/	Pass

## 4.2.2 Test Graph

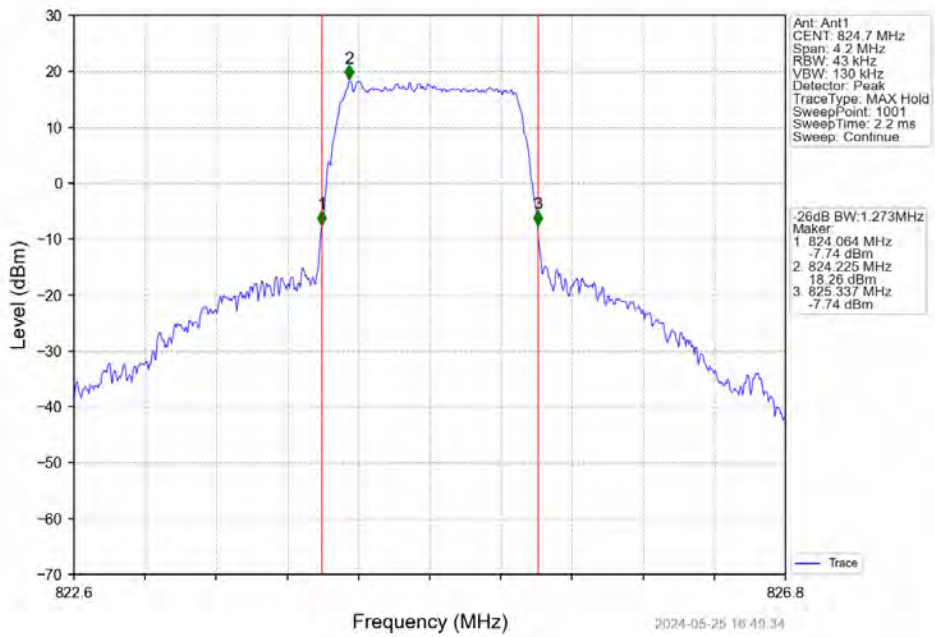




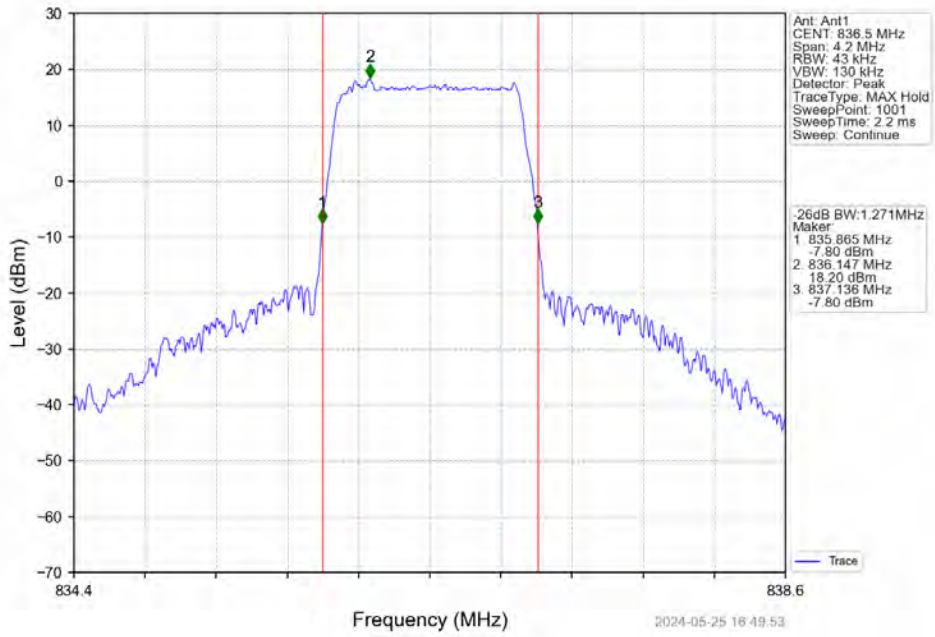
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



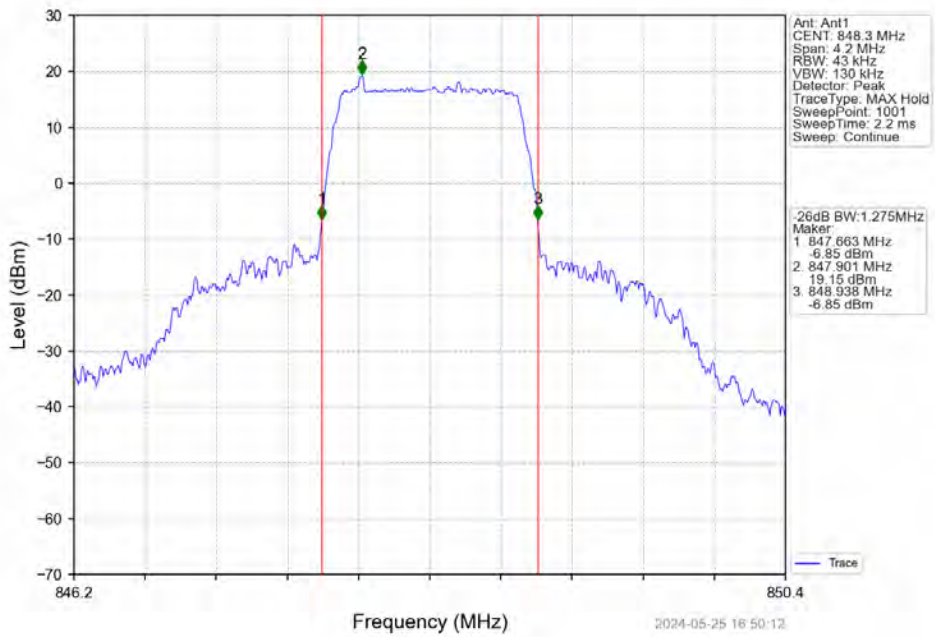
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



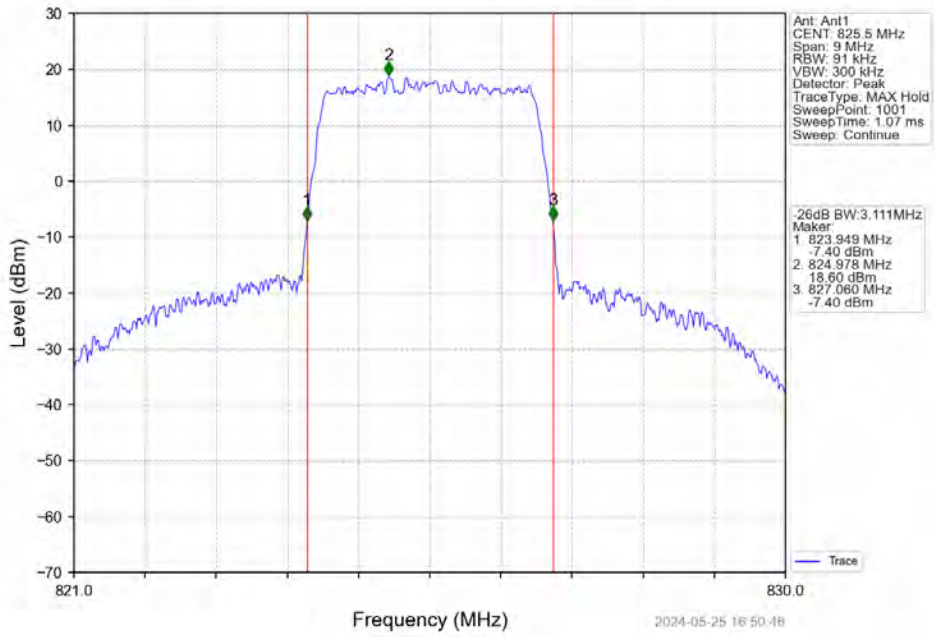
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



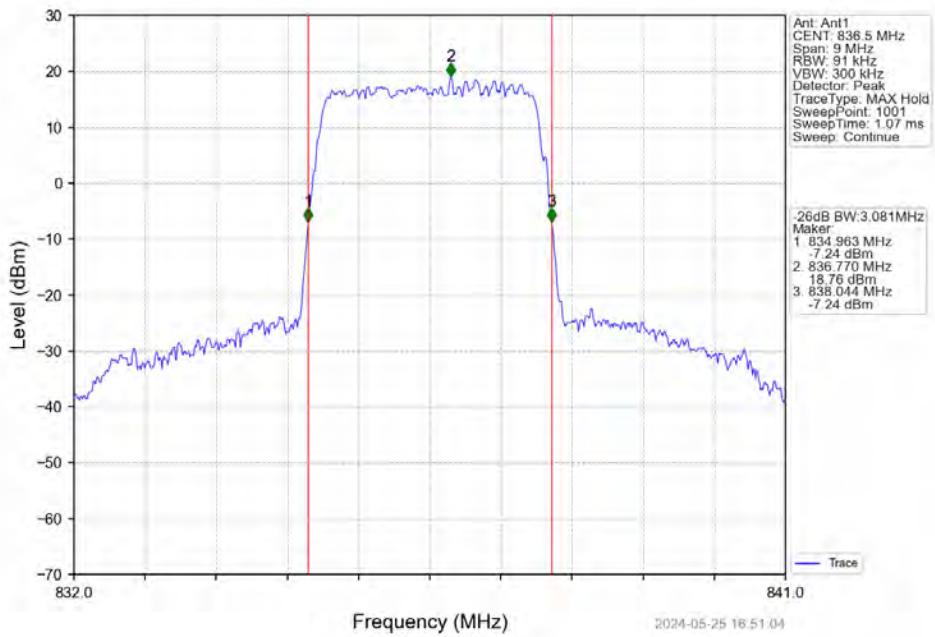
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



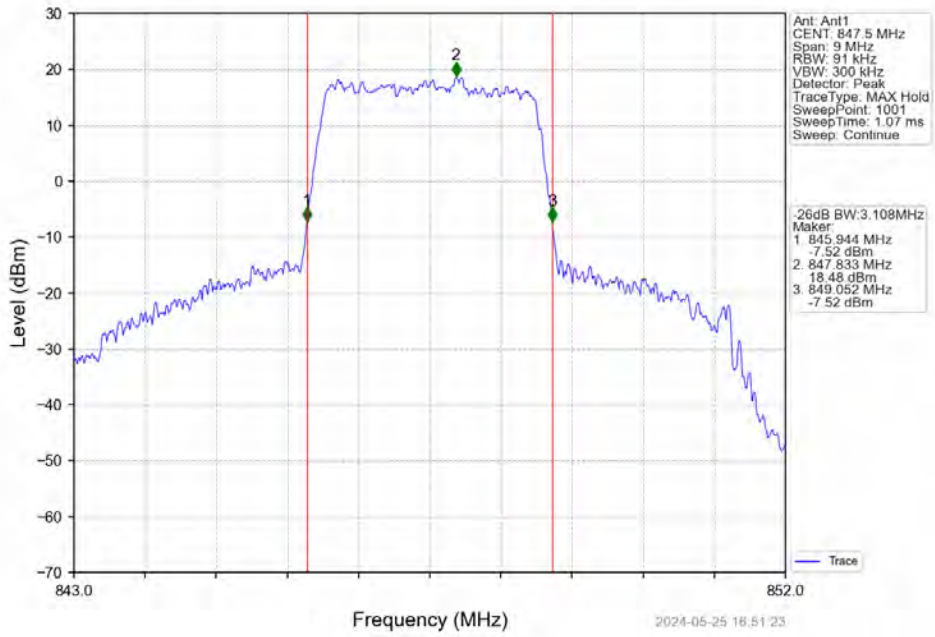
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



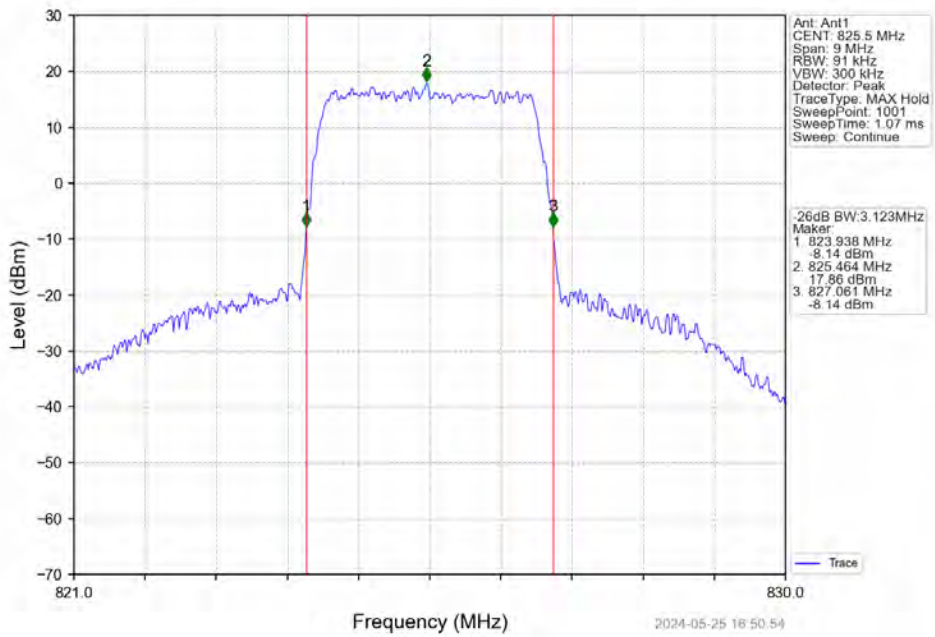
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



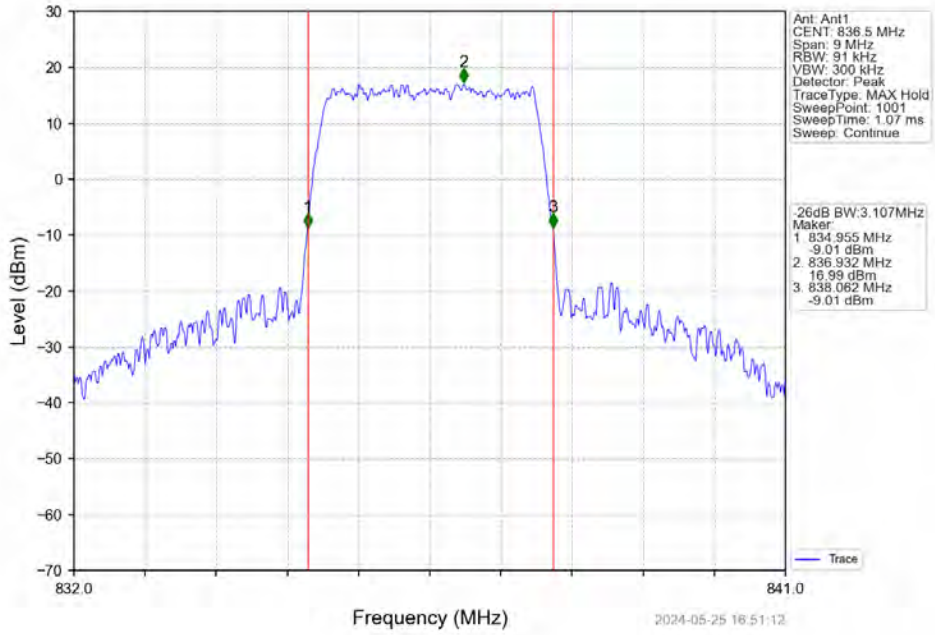
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



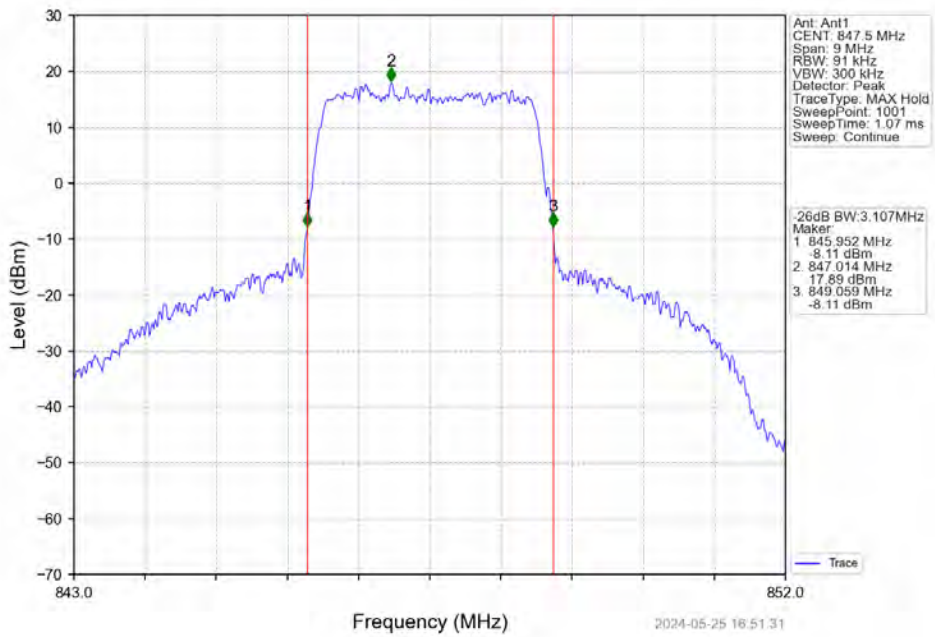
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



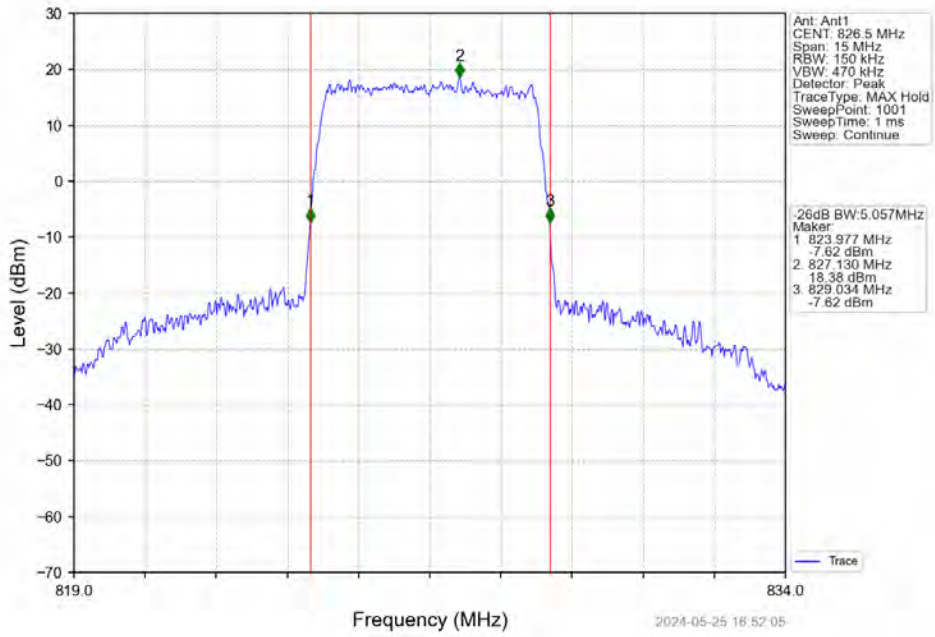
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



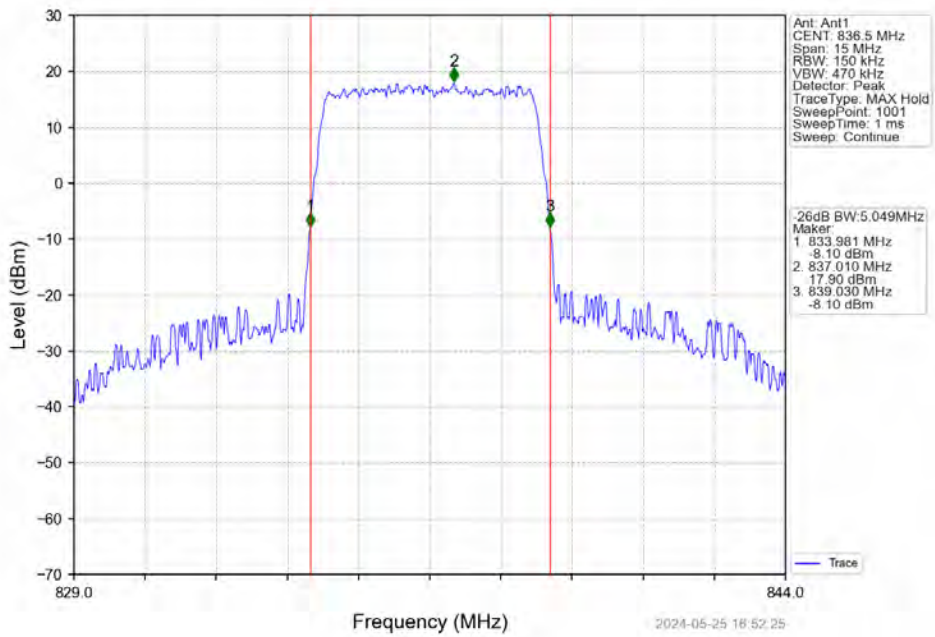
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



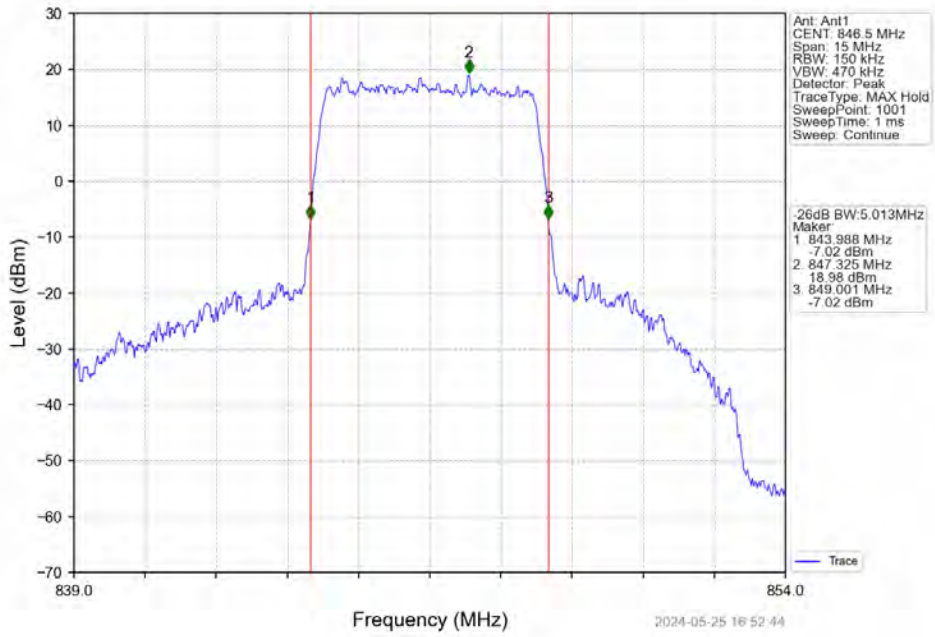
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



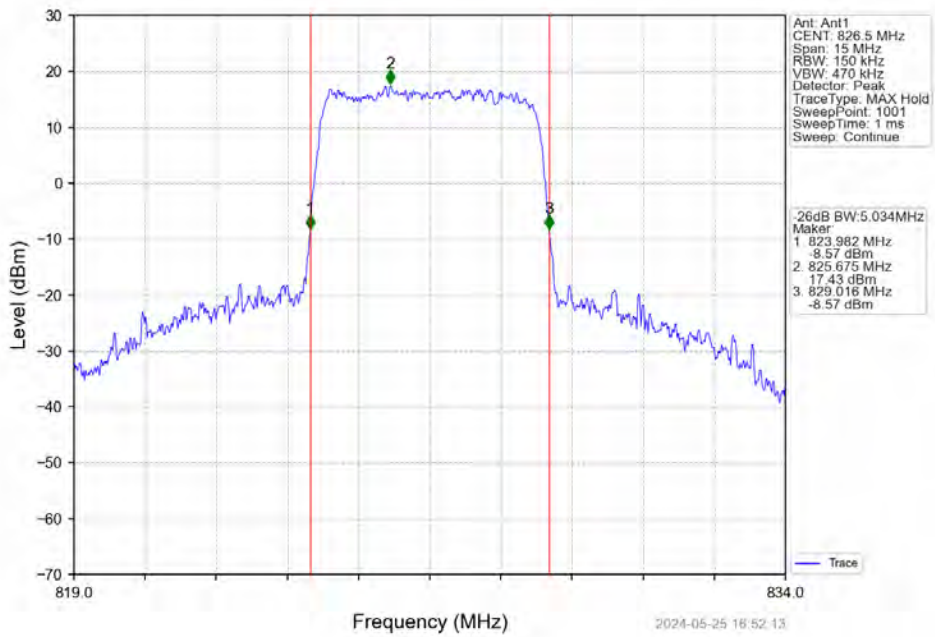
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



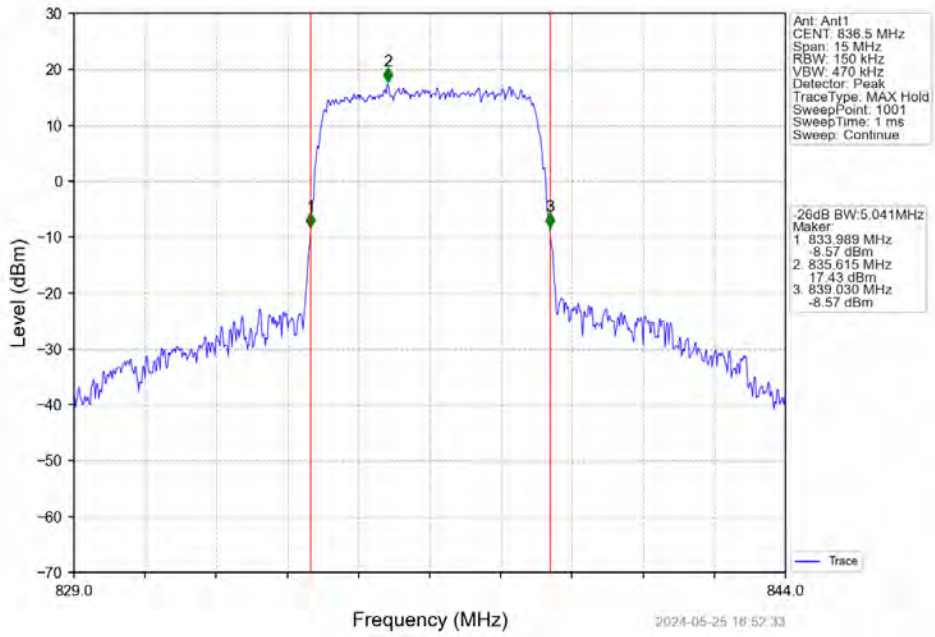
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



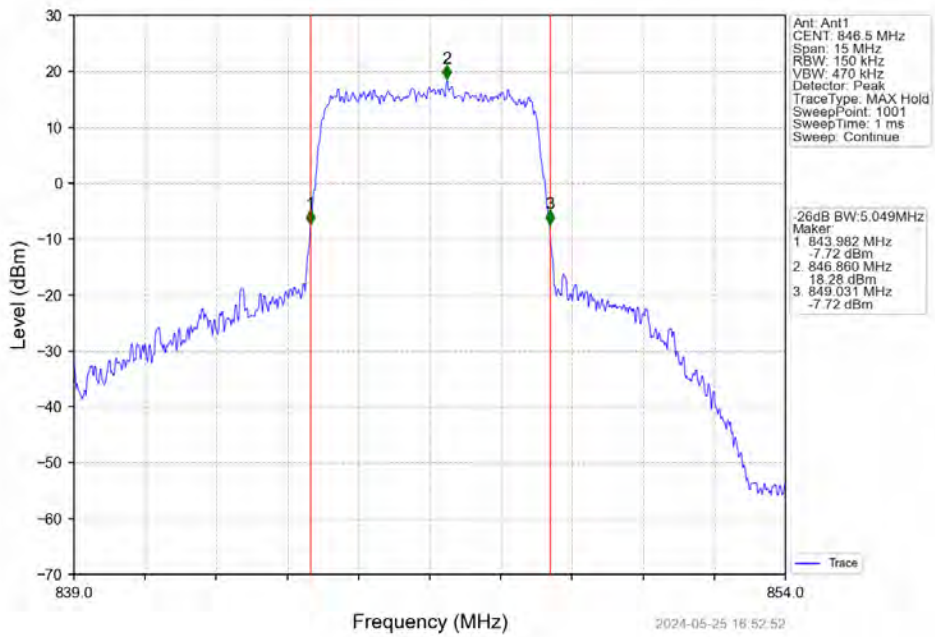
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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

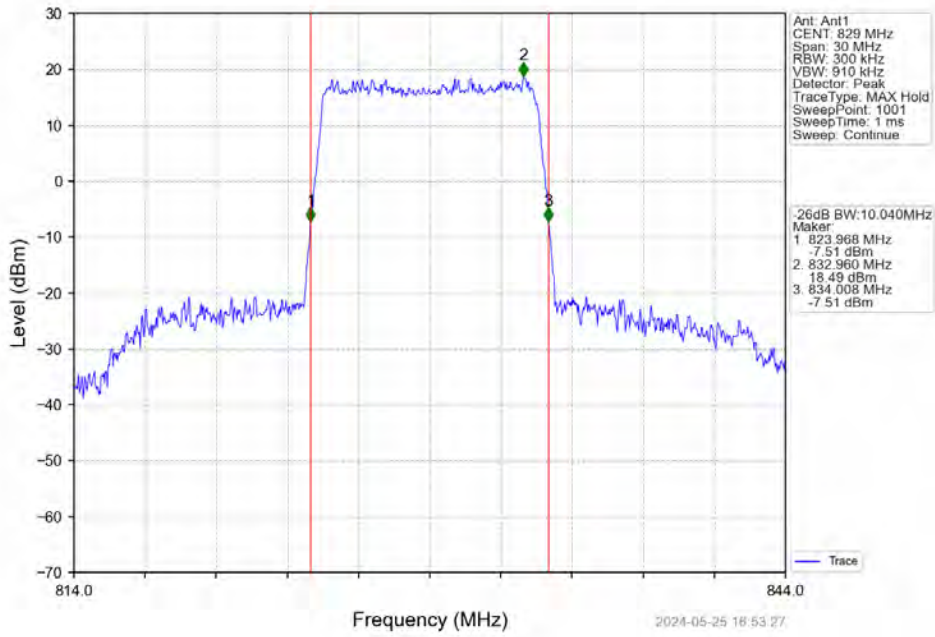


Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

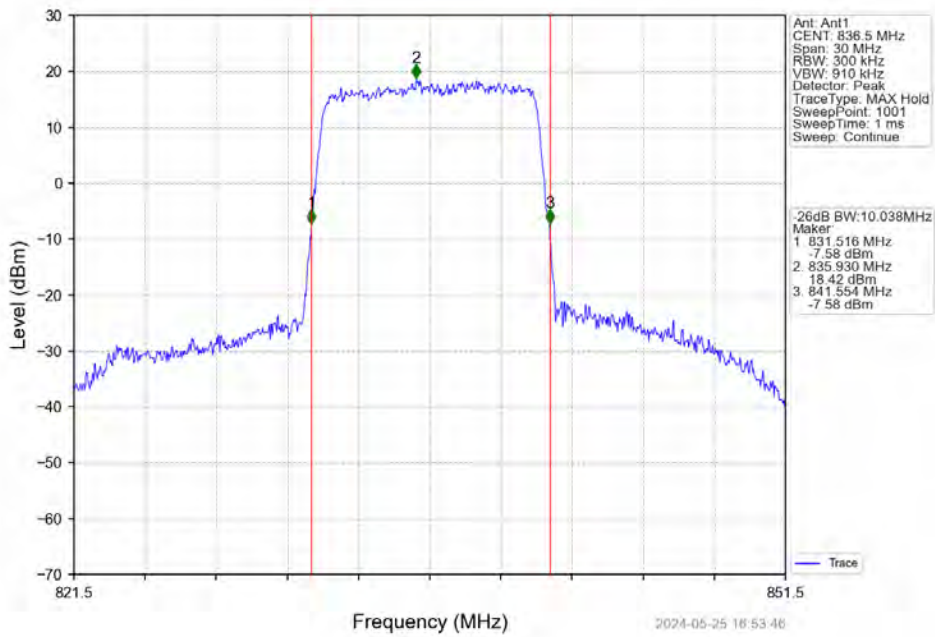




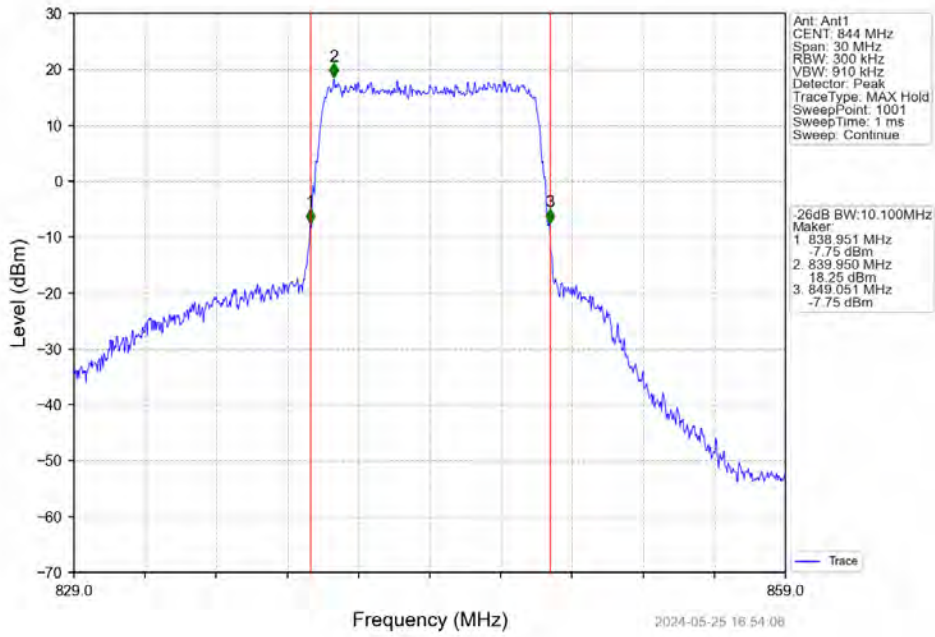
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



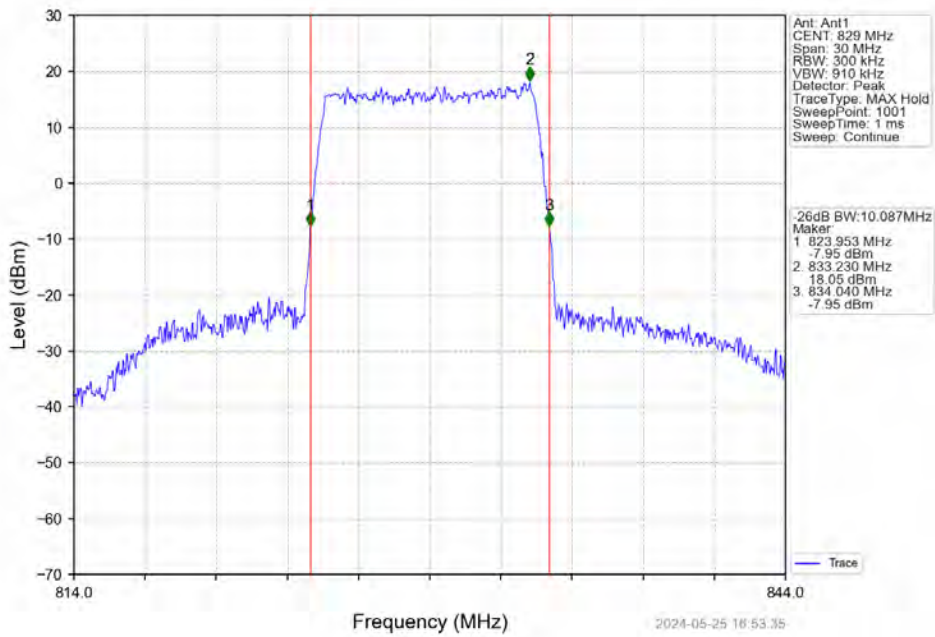
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



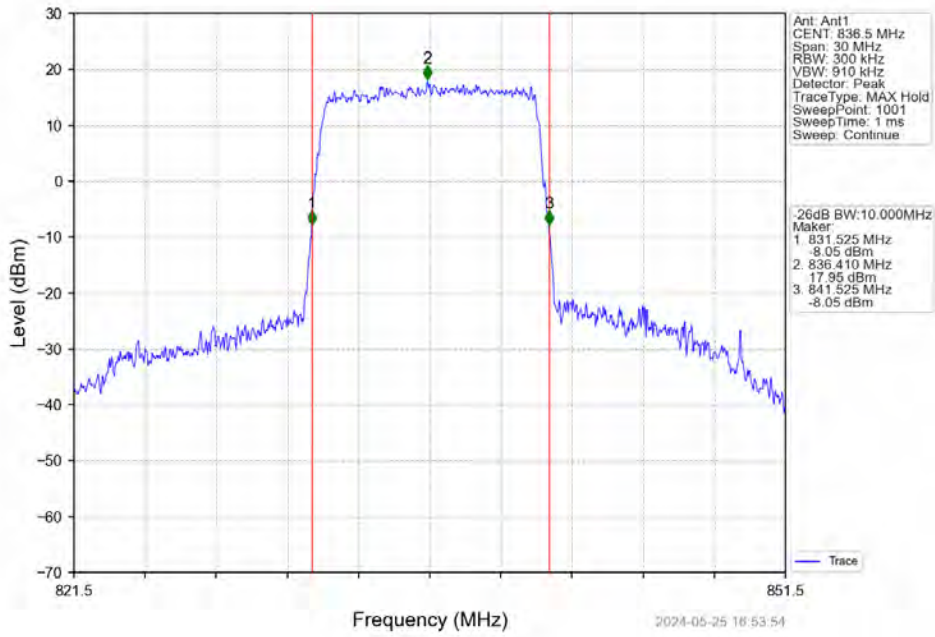
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



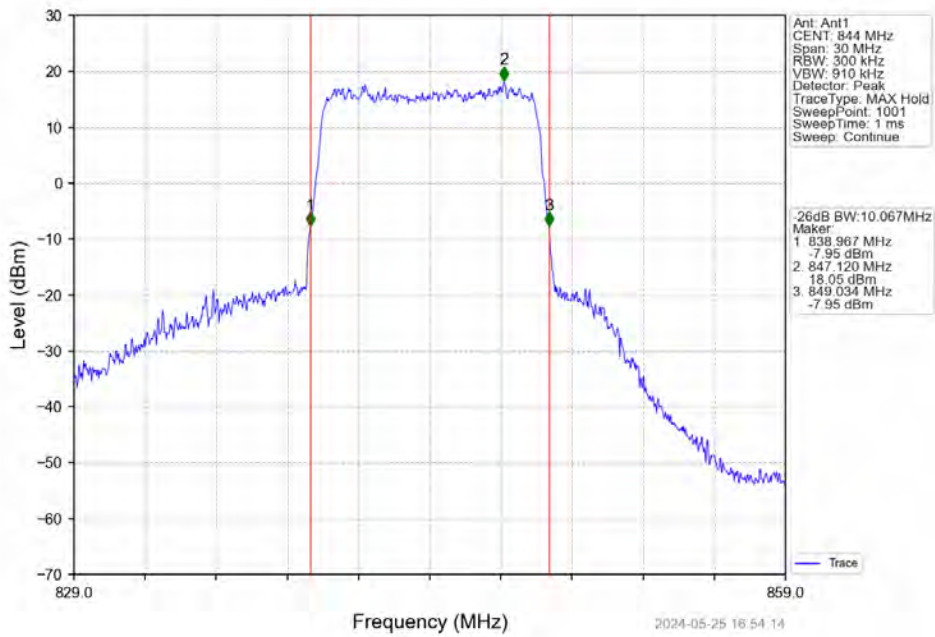
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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



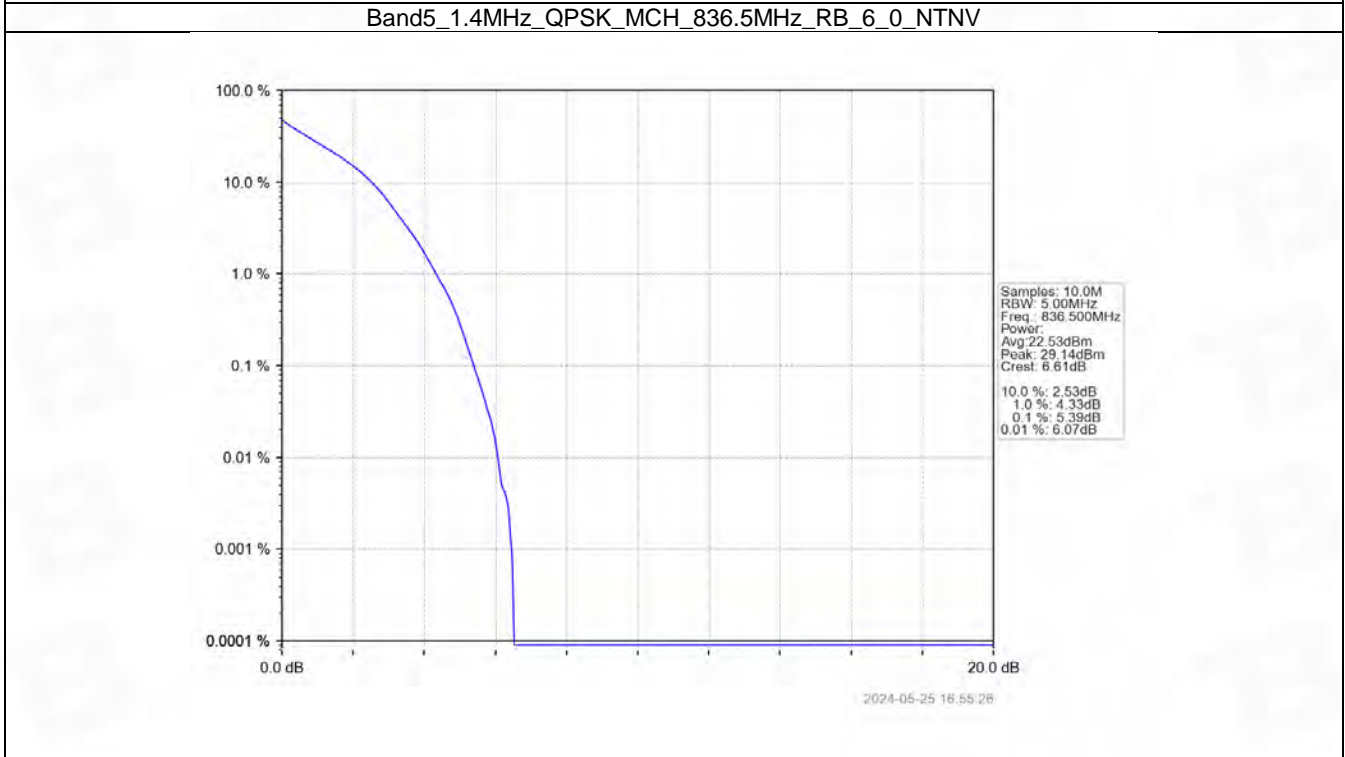
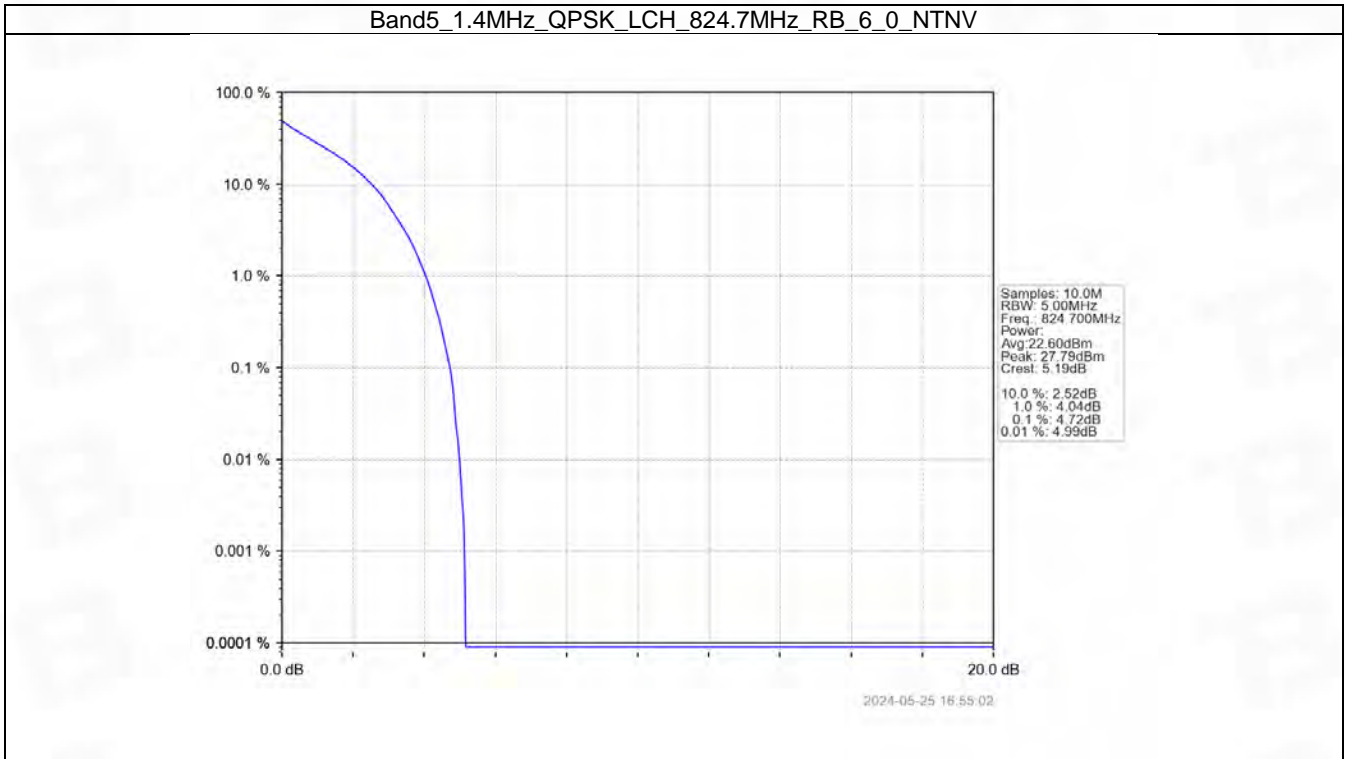
## 5. Peak-Average Ratio

### 5.1 B5\_1.4MHz

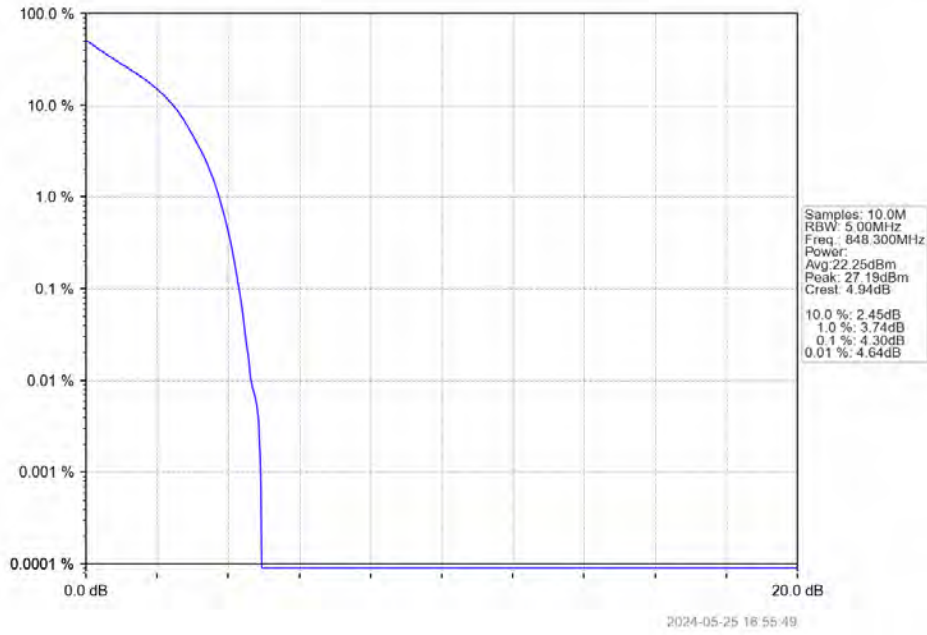
#### 5.1.1 Test Result

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	4.72	<=13	Pass
	836.5	6	0	5.39	<=13	Pass
	848.3	6	0	4.30	<=13	Pass
16QAM	824.7	6	0	5.48	<=13	Pass
	836.5	6	0	6.26	<=13	Pass
	848.3	6	0	5.04	<=13	Pass

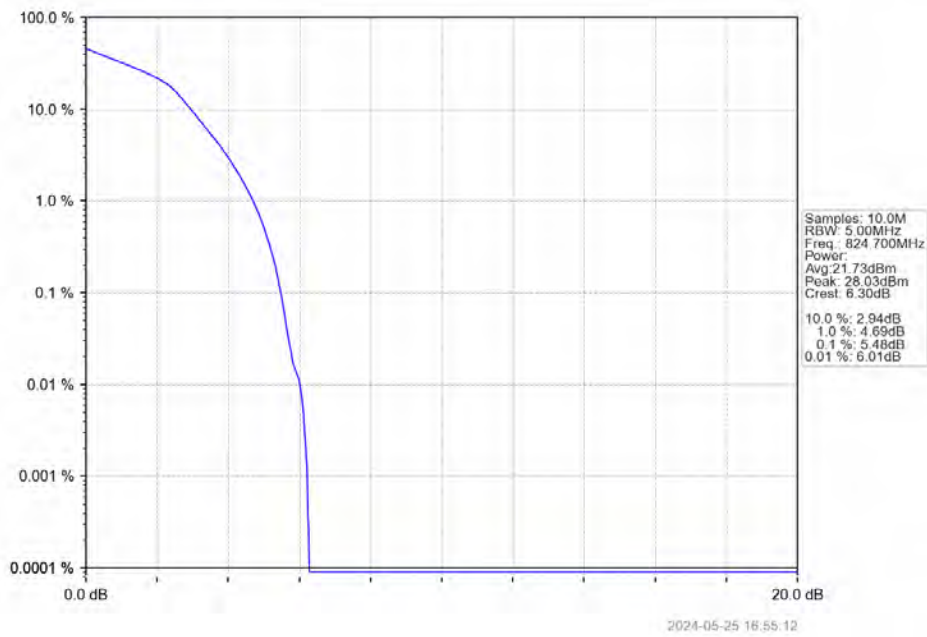
### 5.1.2 Test Graph



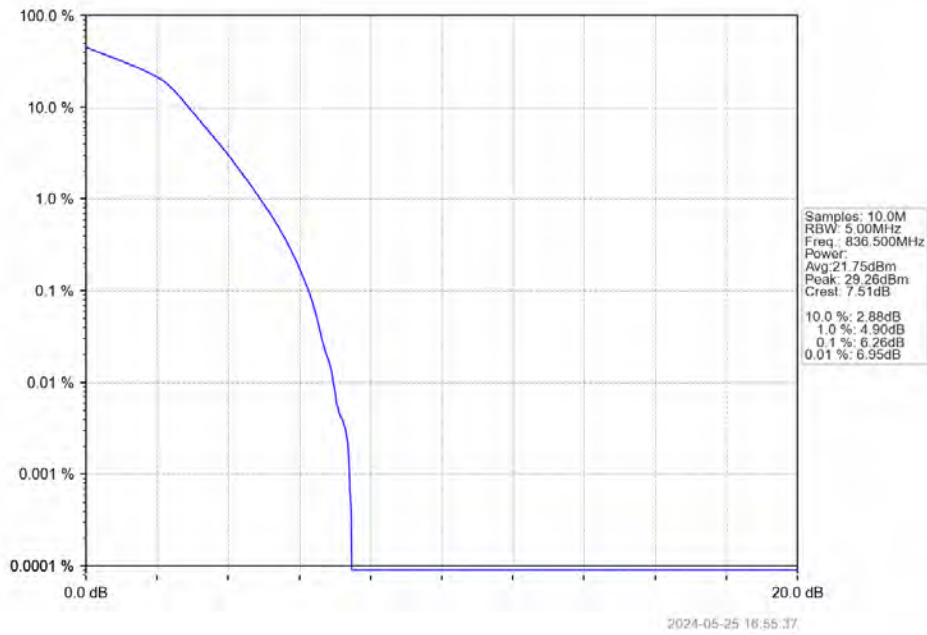
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



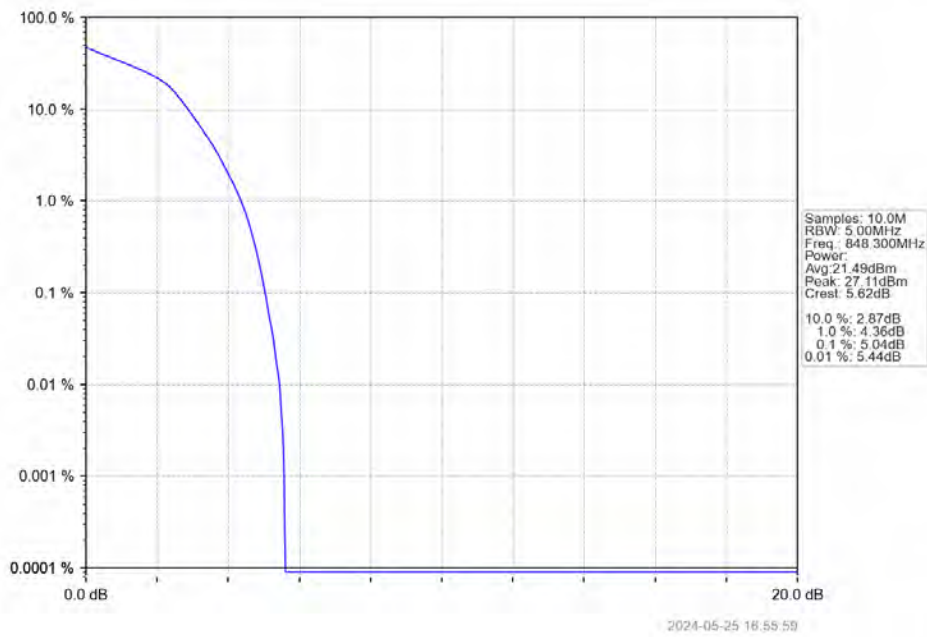
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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



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



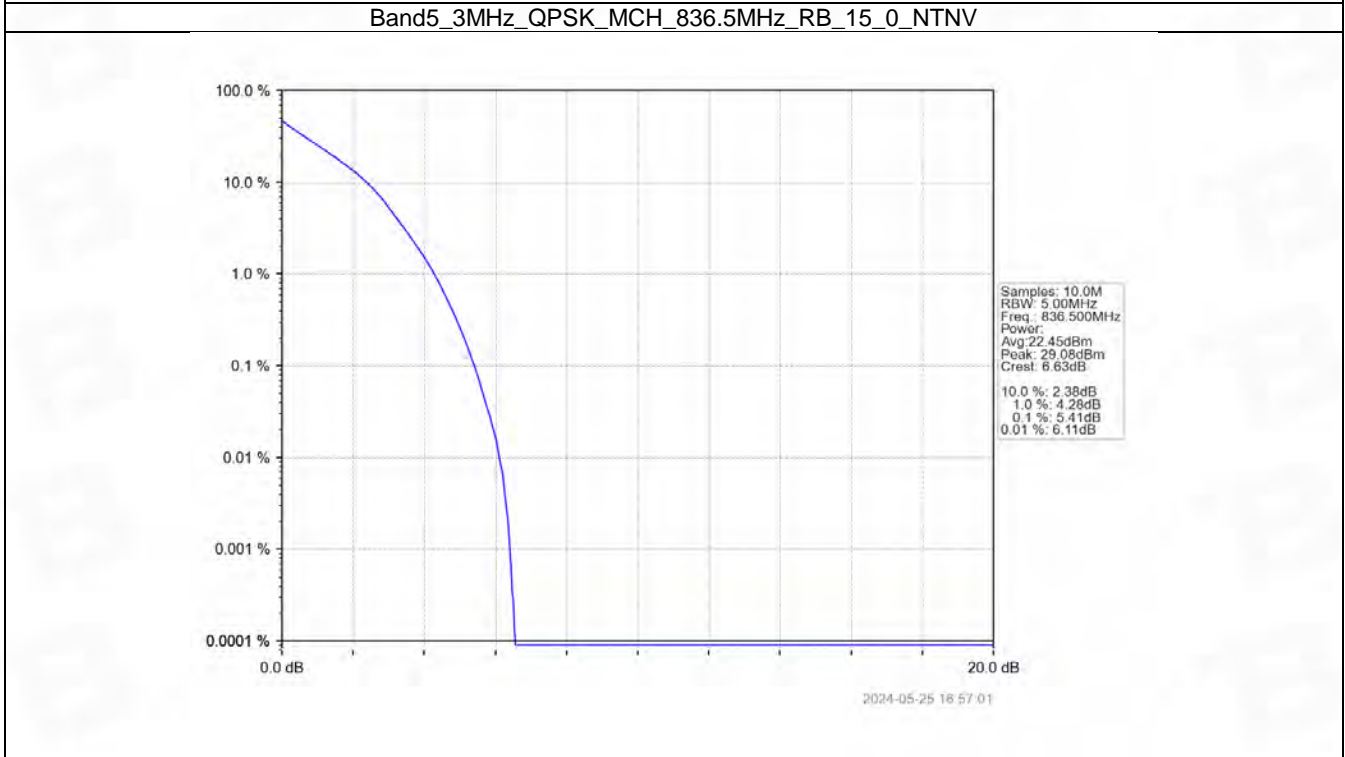
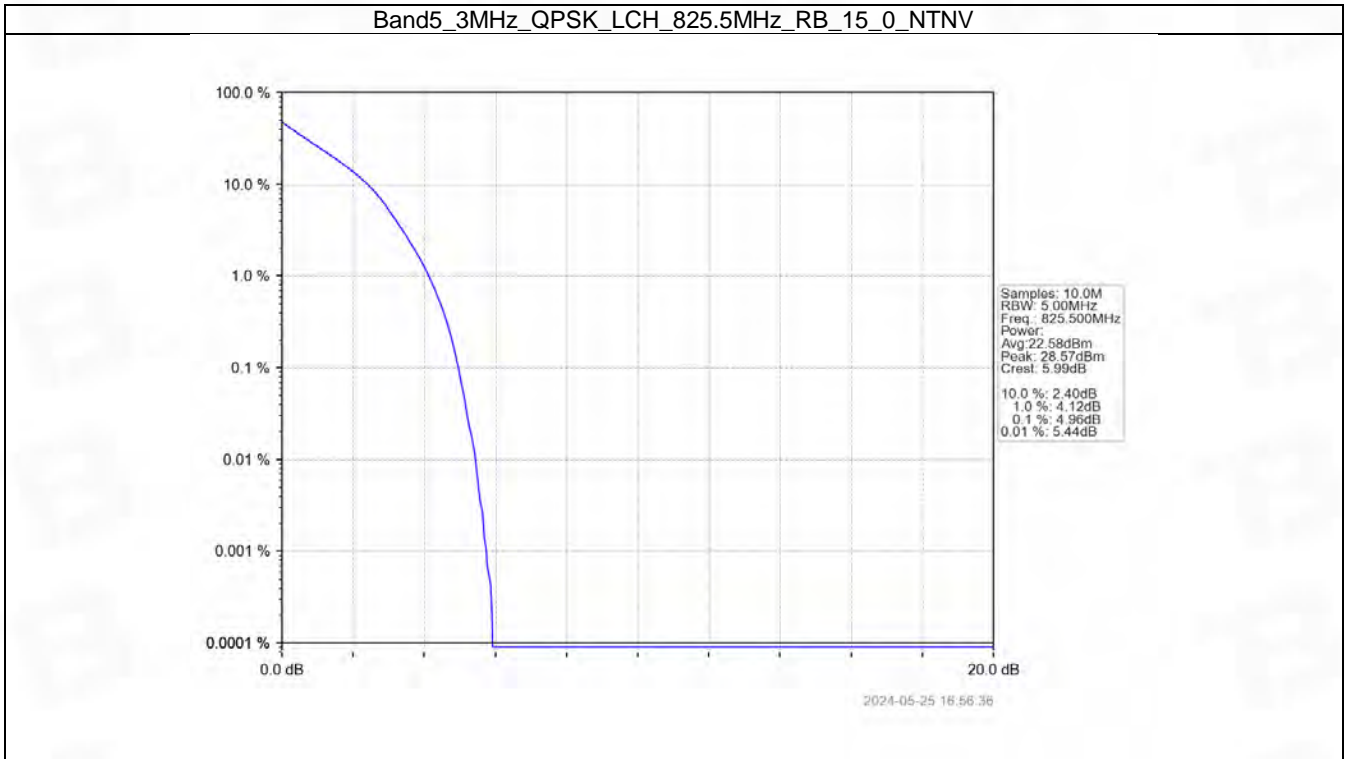
## 5.2 B5\_3MHz

### 5.2.1 Test Result

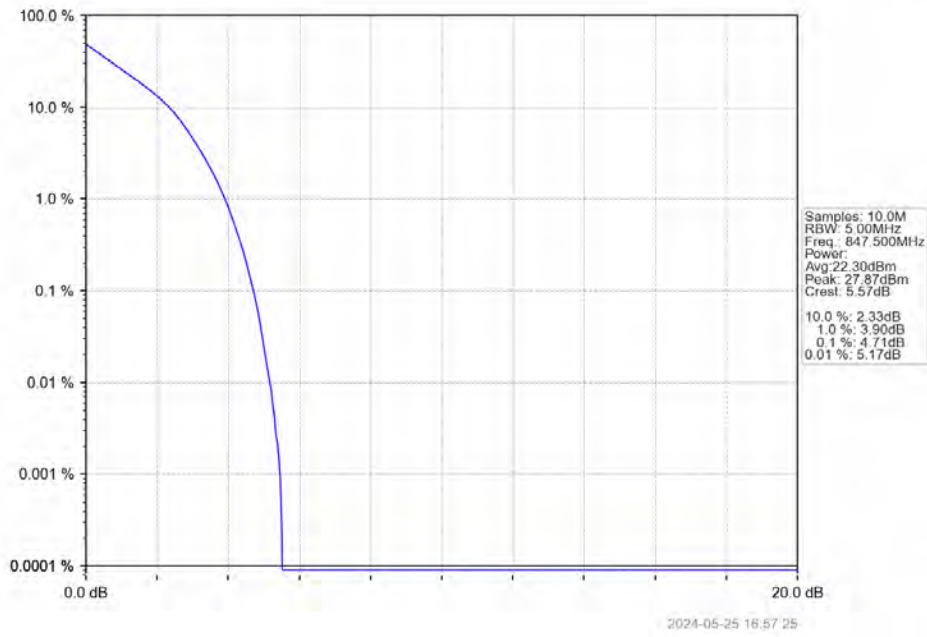
Band: 5 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	4.96	<=13	Pass
	836.5	15	0	5.41	<=13	Pass
	847.5	15	0	4.71	<=13	Pass
16QAM	825.5	15	0	5.76	<=13	Pass
	836.5	15	0	6.20	<=13	Pass
	847.5	15	0	5.54	<=13	Pass



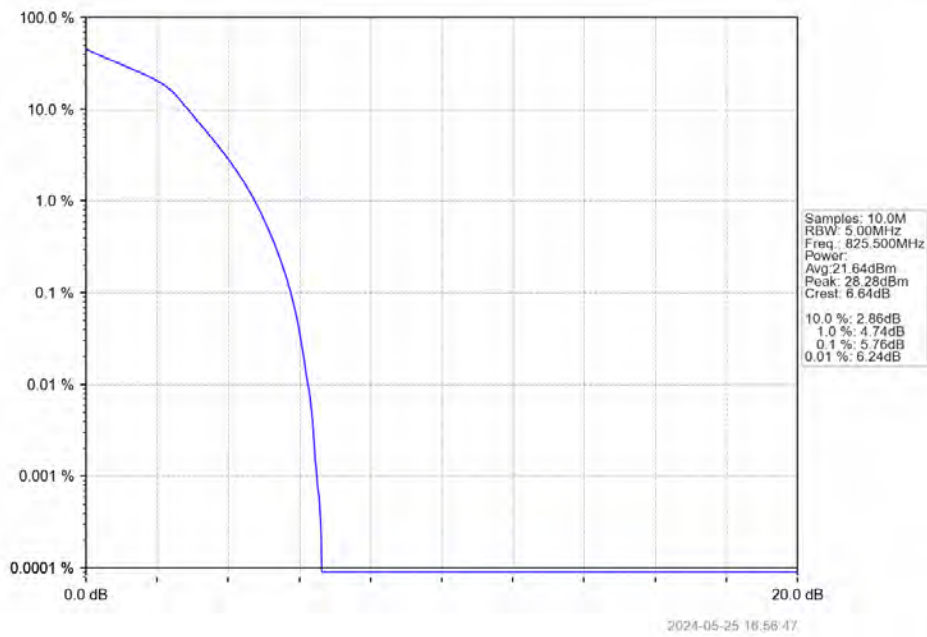
### 5.2.2 Test Graph



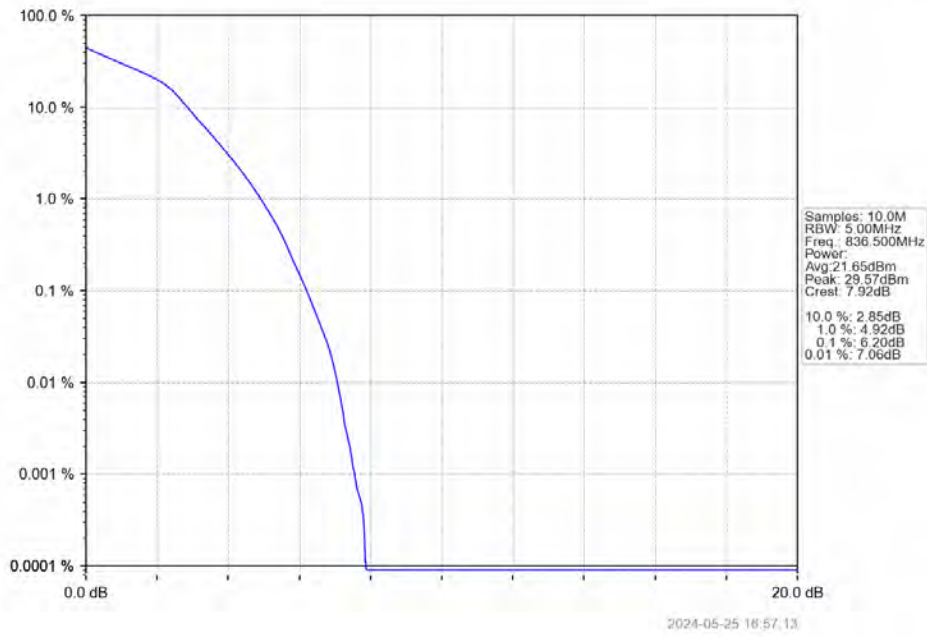
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



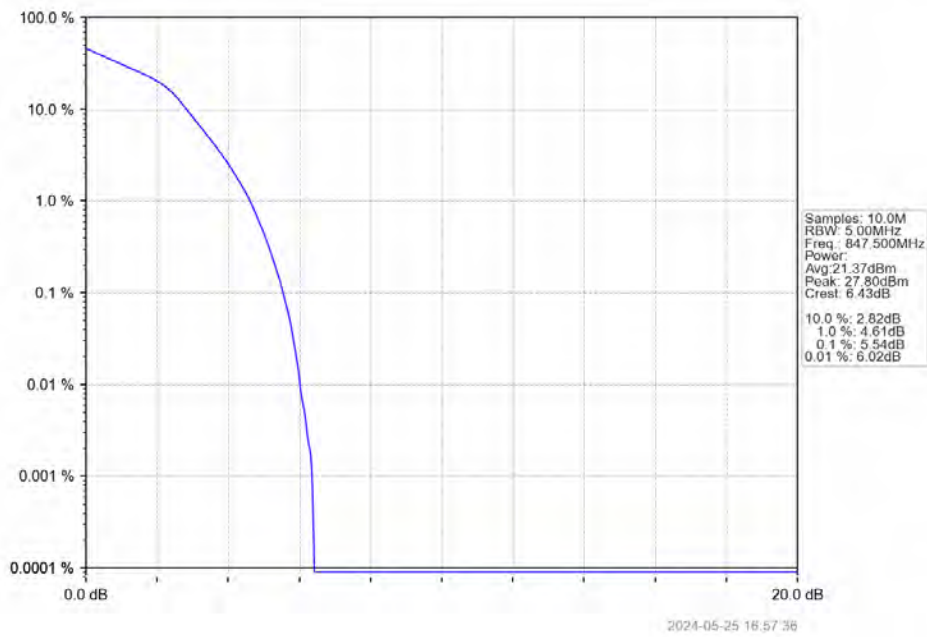
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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



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

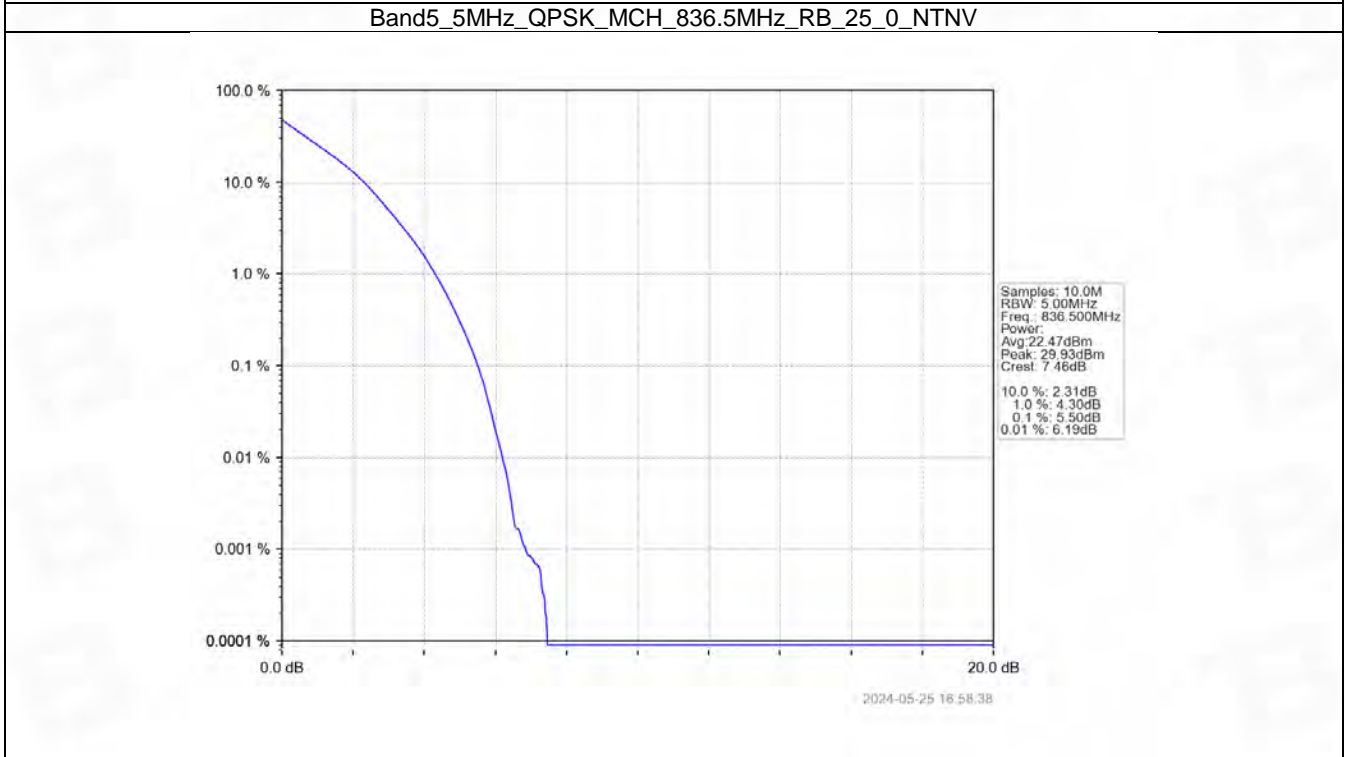


## 5.3 B5\_5MHz

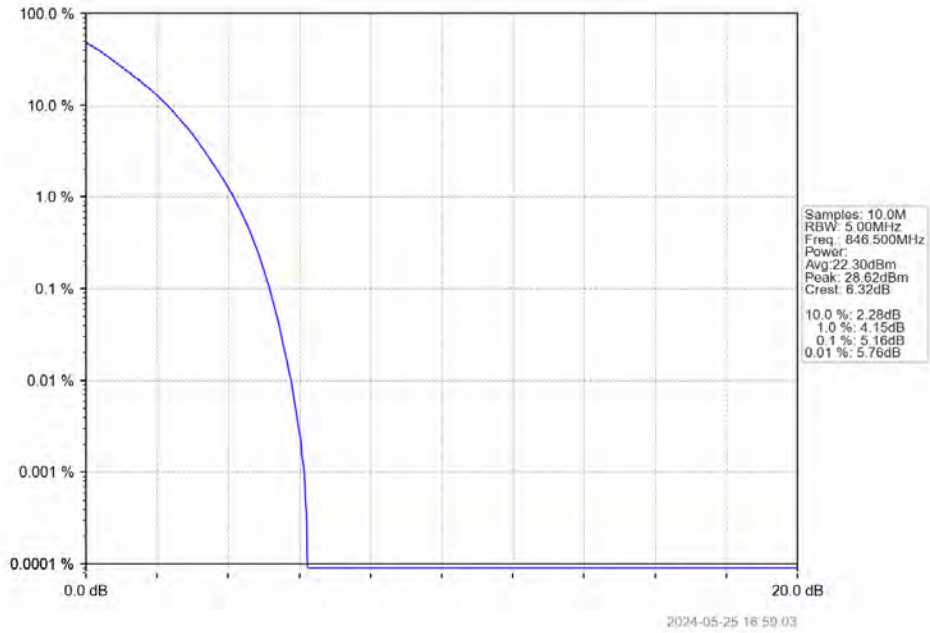
### 5.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.29	<=13	Pass
	836.5	25	0	5.50	<=13	Pass
	846.5	25	0	5.16	<=13	Pass
16QAM	826.5	25	0	6.02	<=13	Pass
	836.5	25	0	6.20	<=13	Pass
	846.5	25	0	5.87	<=13	Pass

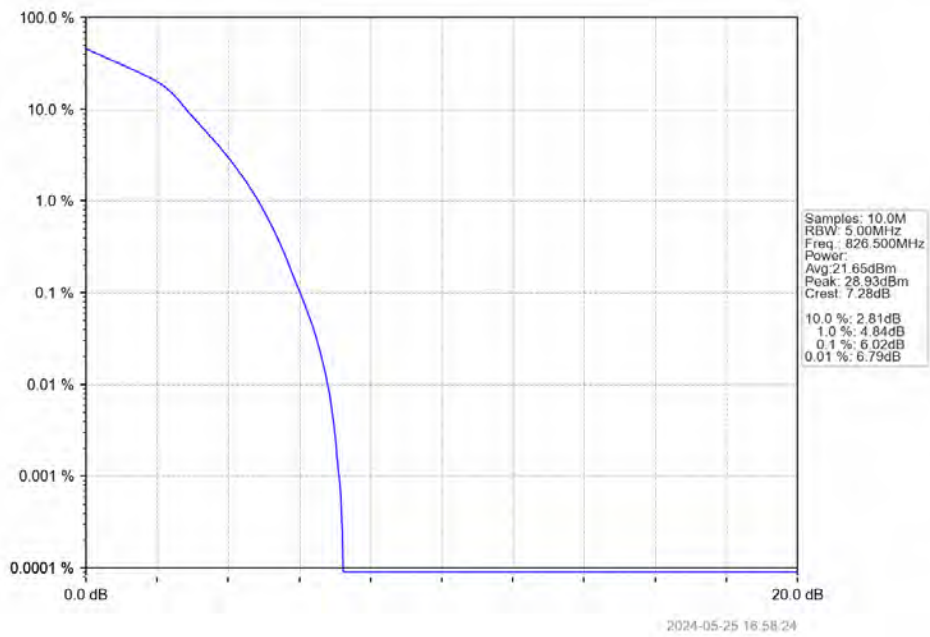
### 5.3.2 Test Graph



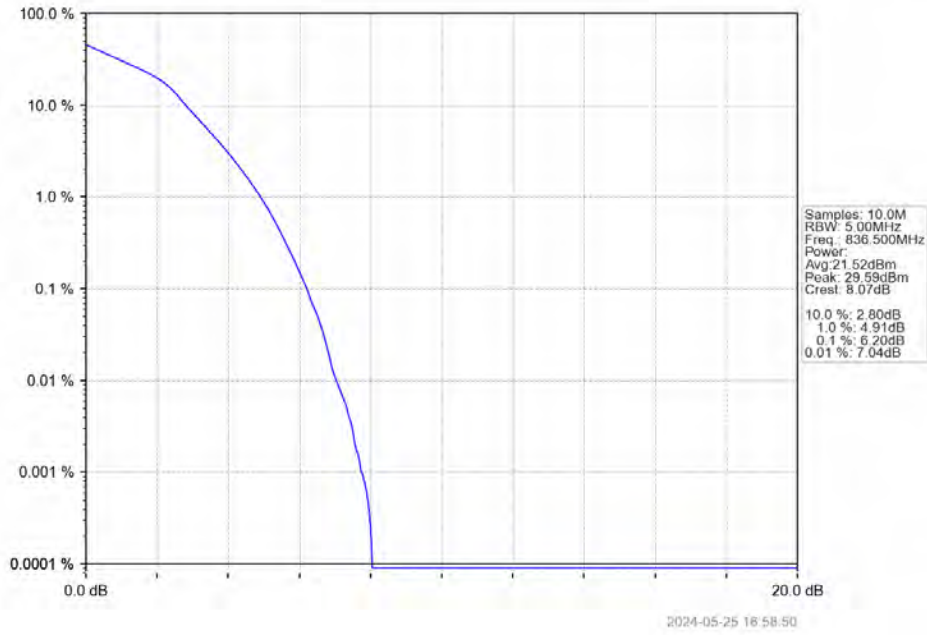
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



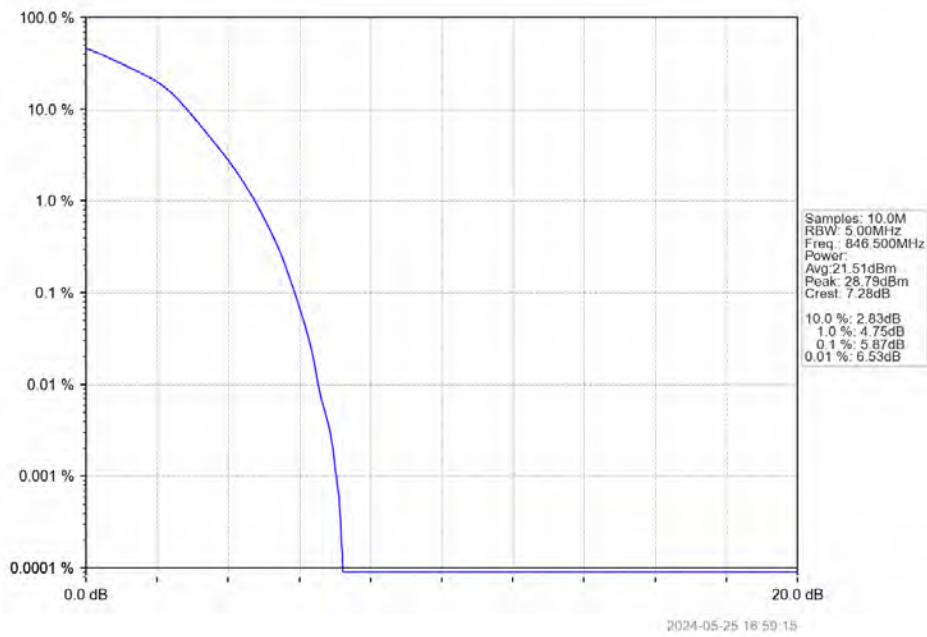
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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



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



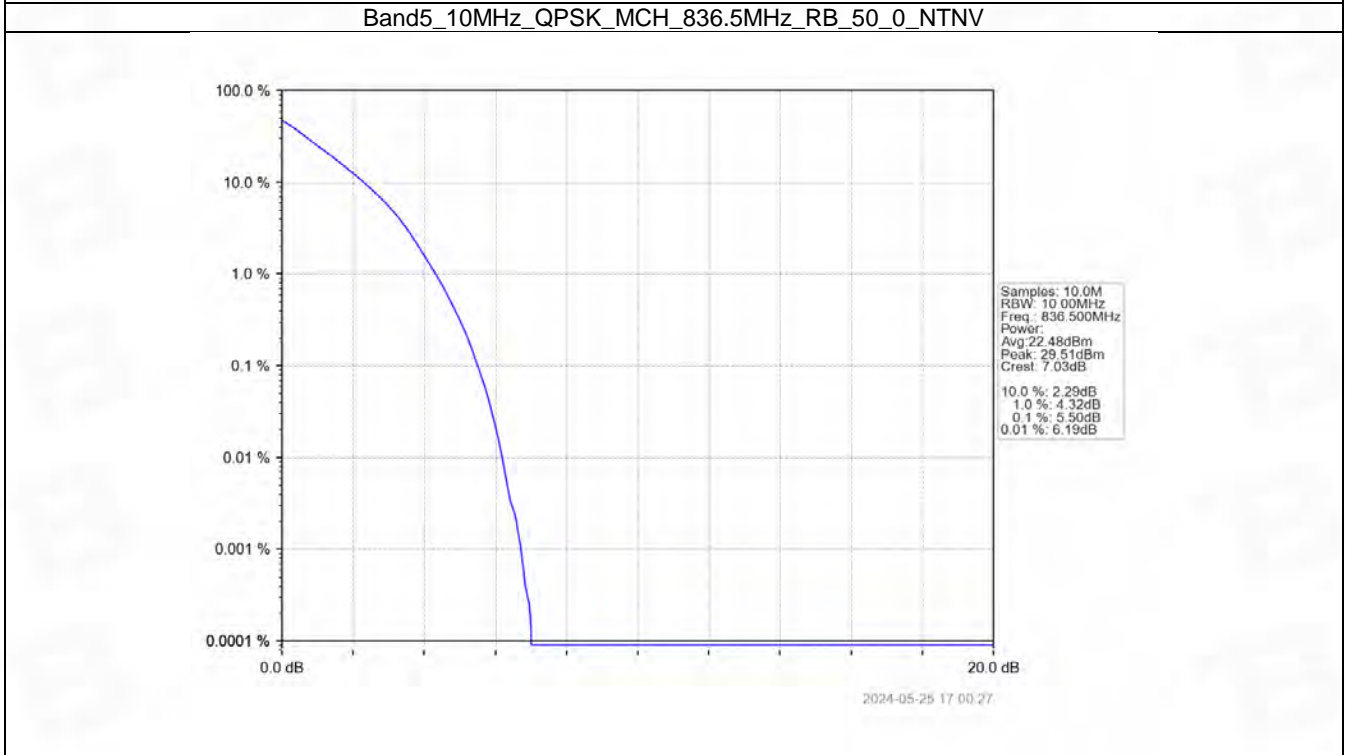
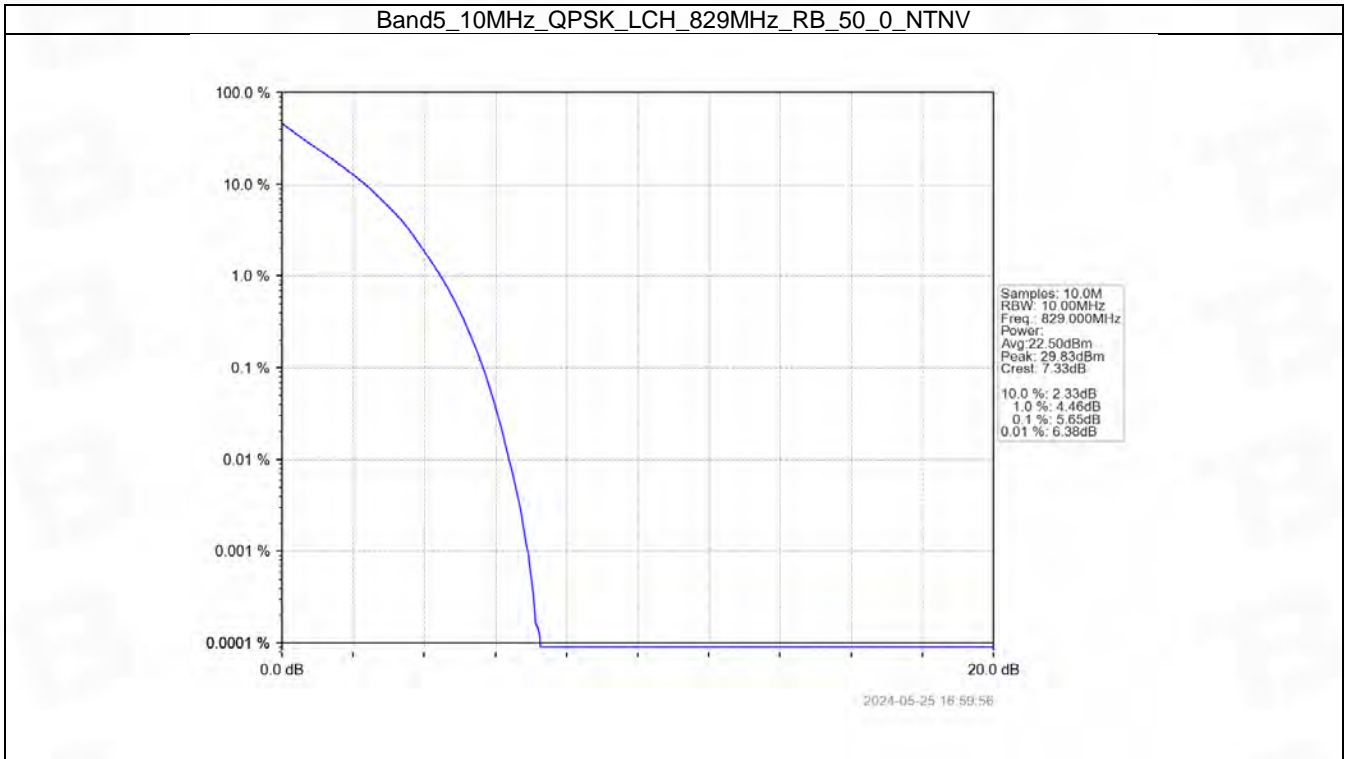
## 5.4 B5\_10MHz

### 5.4.1 Test Result

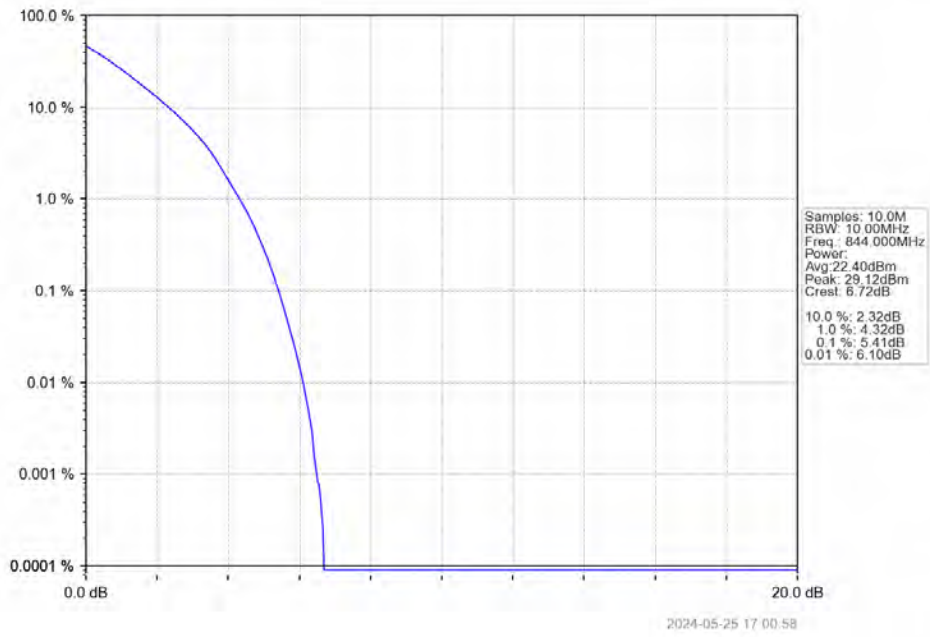
Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.65	<=13	Pass
	836.5	50	0	5.50	<=13	Pass
	844	50	0	5.41	<=13	Pass
16QAM	829	50	0	6.36	<=13	Pass
	836.5	50	0	6.25	<=13	Pass
	844	50	0	6.11	<=13	Pass



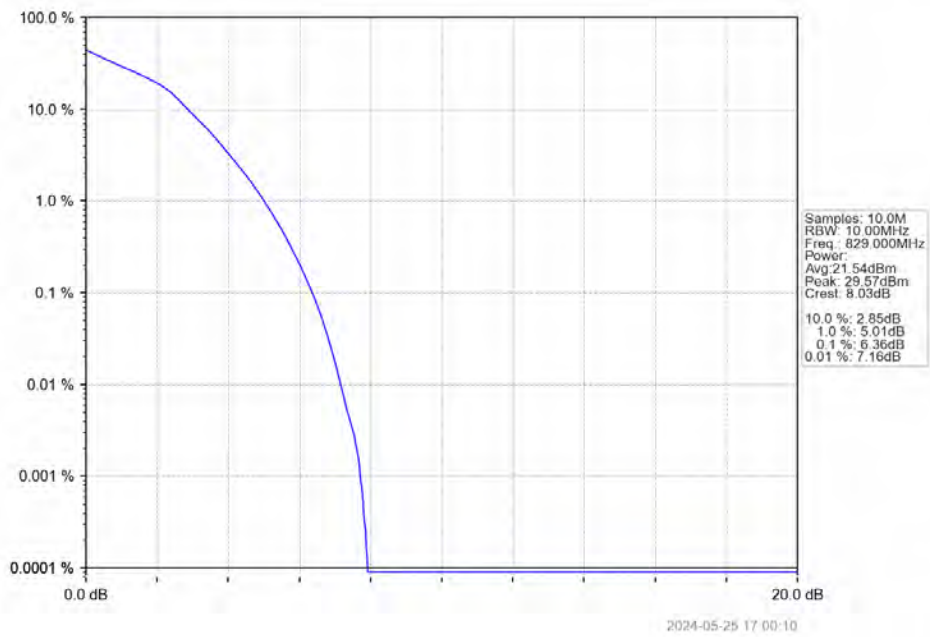
### 5.4.2 Test Graph



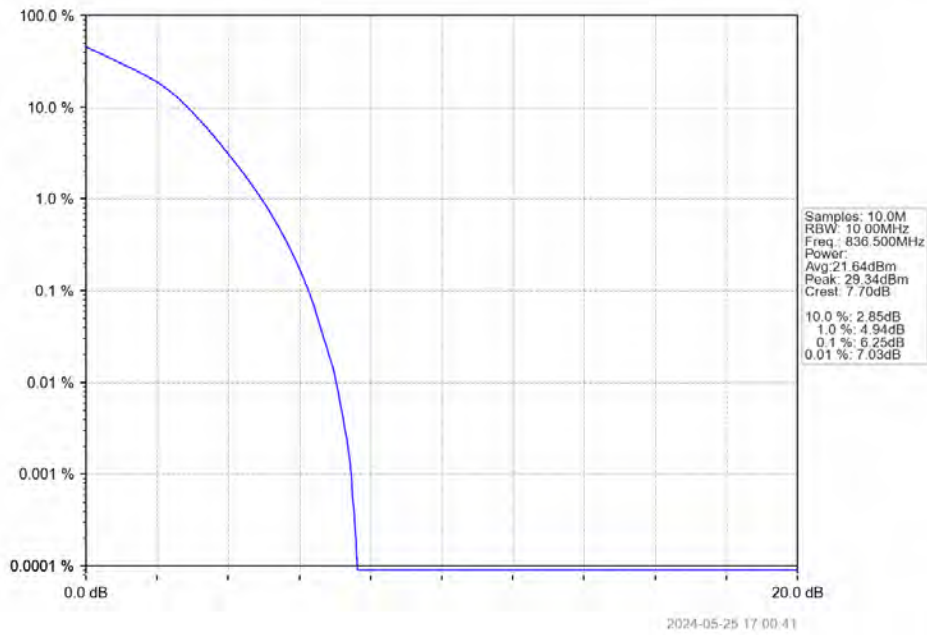
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



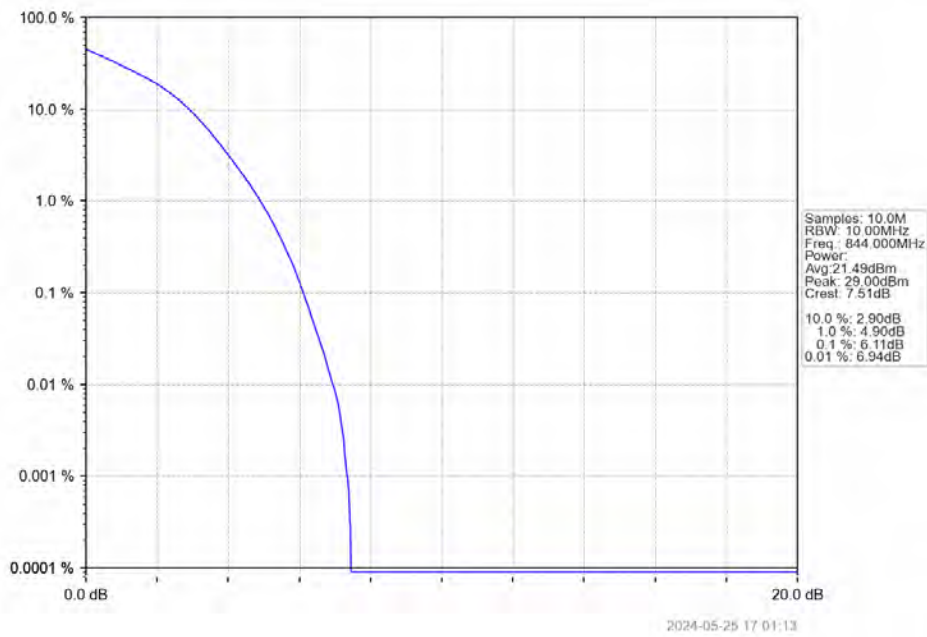
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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



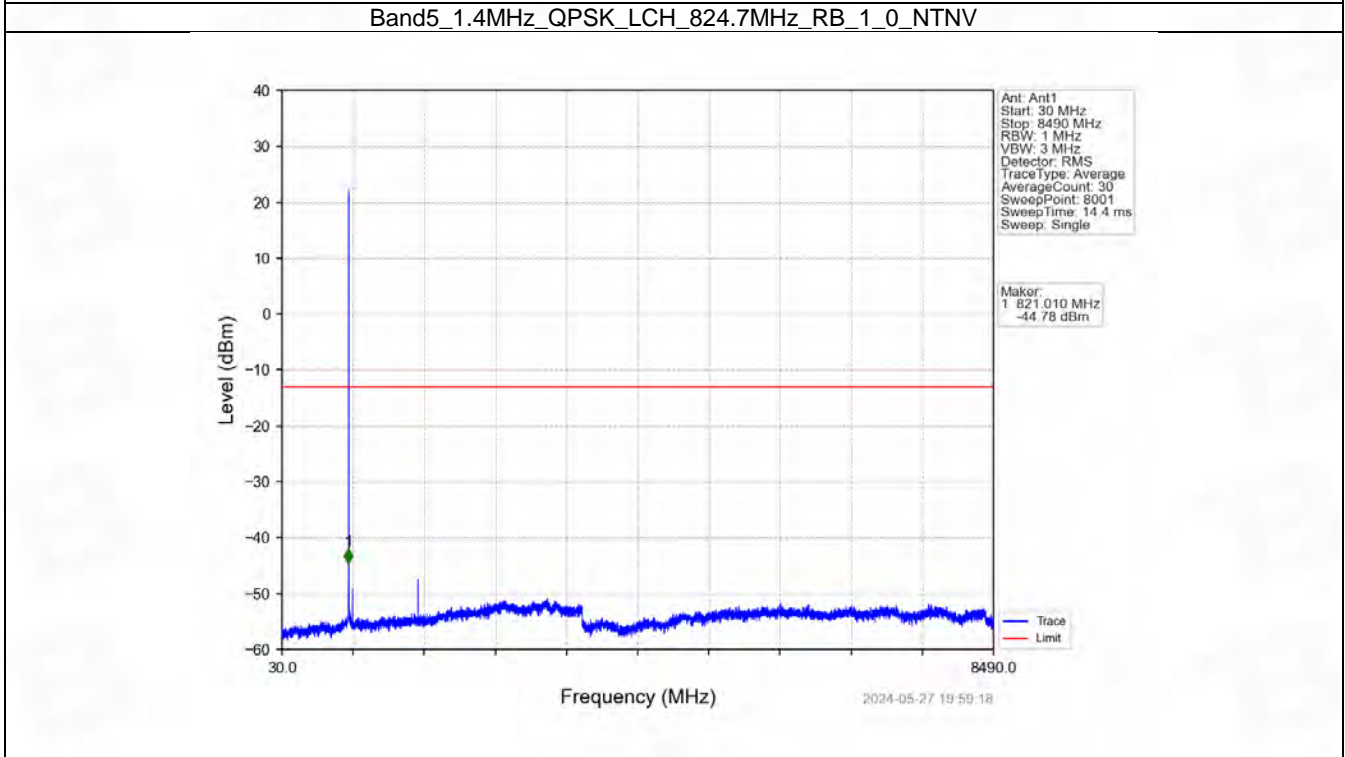
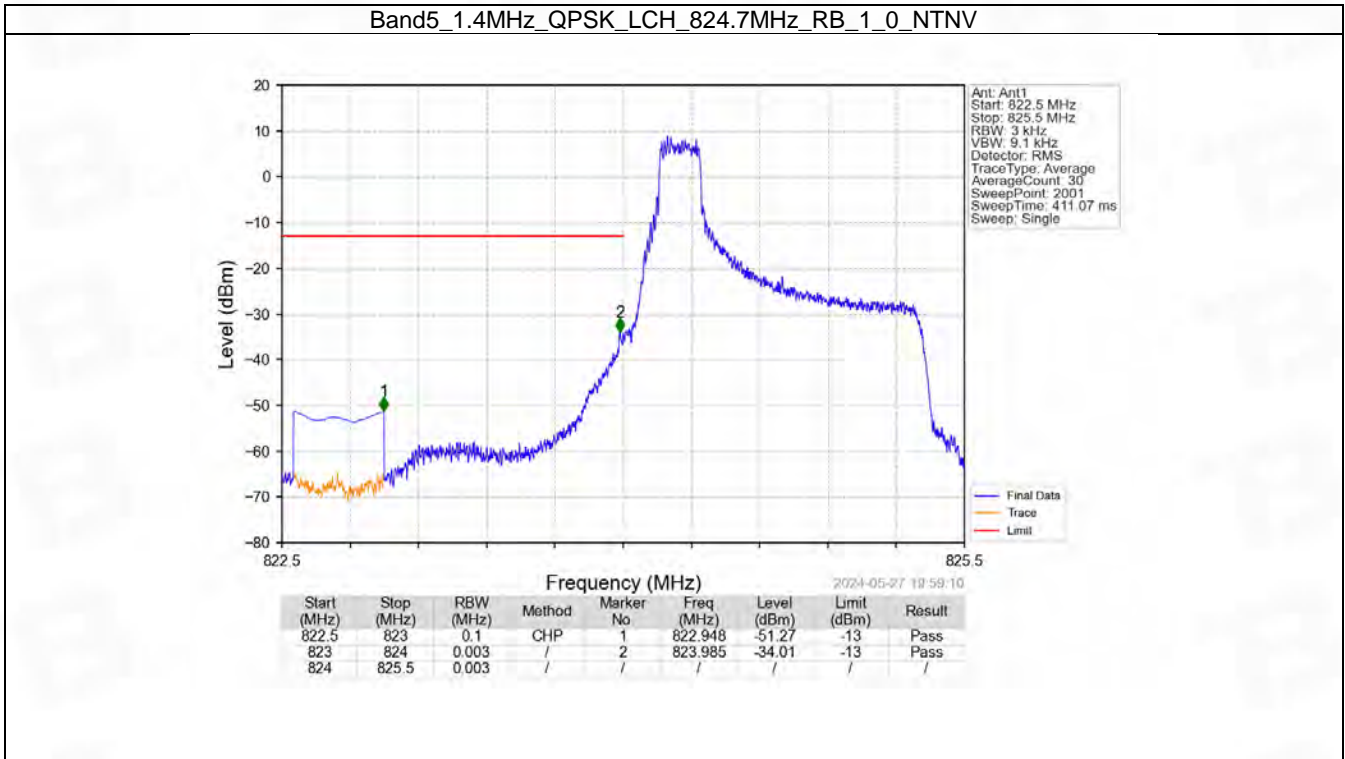
## 6. Spurious Emission

### 6.1 B5\_1.4MHz

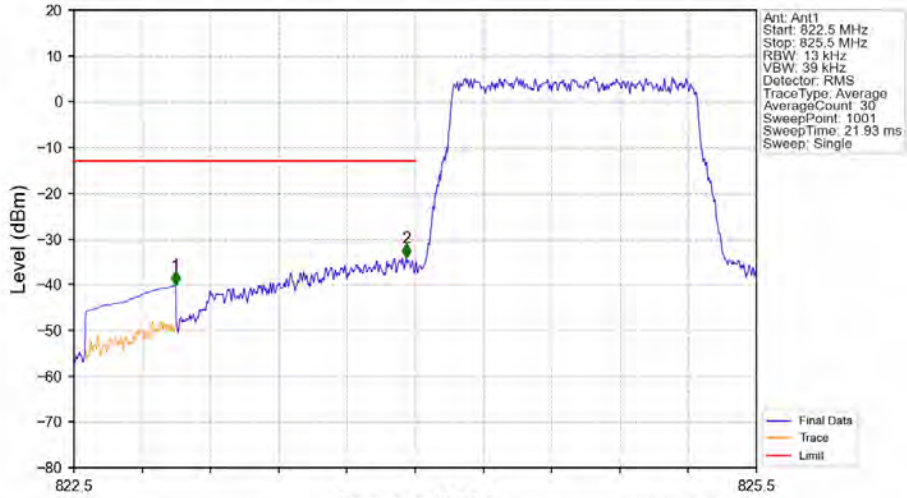
#### 6.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTN						
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	
	848.3	1	0	Refer To Test Graph	Pass	
		1	5	Refer To Test Graph	Pass	
		6	0	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	
	848.3	1	0	Refer To Test Graph	Pass	
		1	5	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	

### 6.1.2 Test Graph

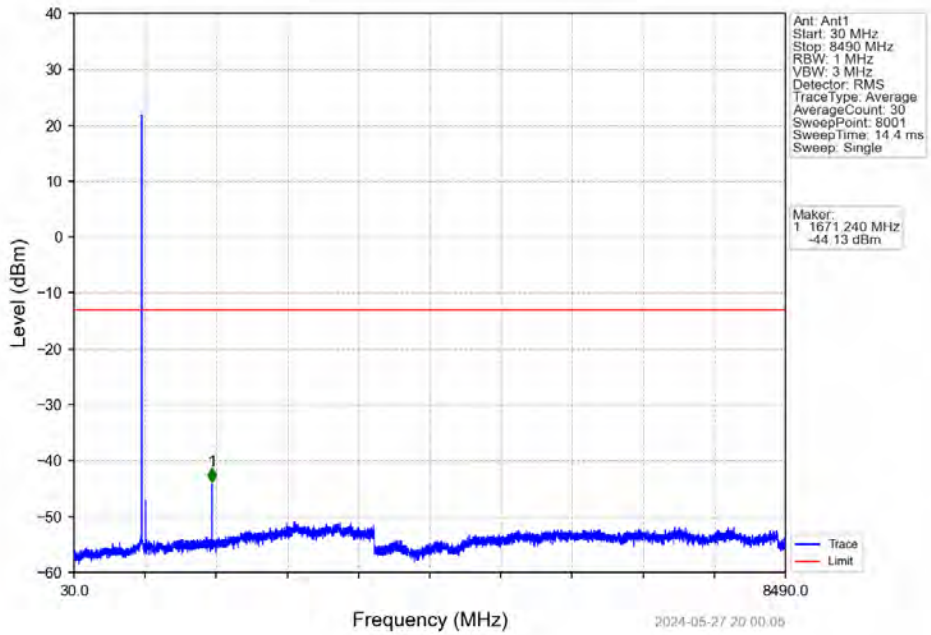


Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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	-40.16	-13	Pass
823	824	0.013	/	2	823.961	-34.19	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

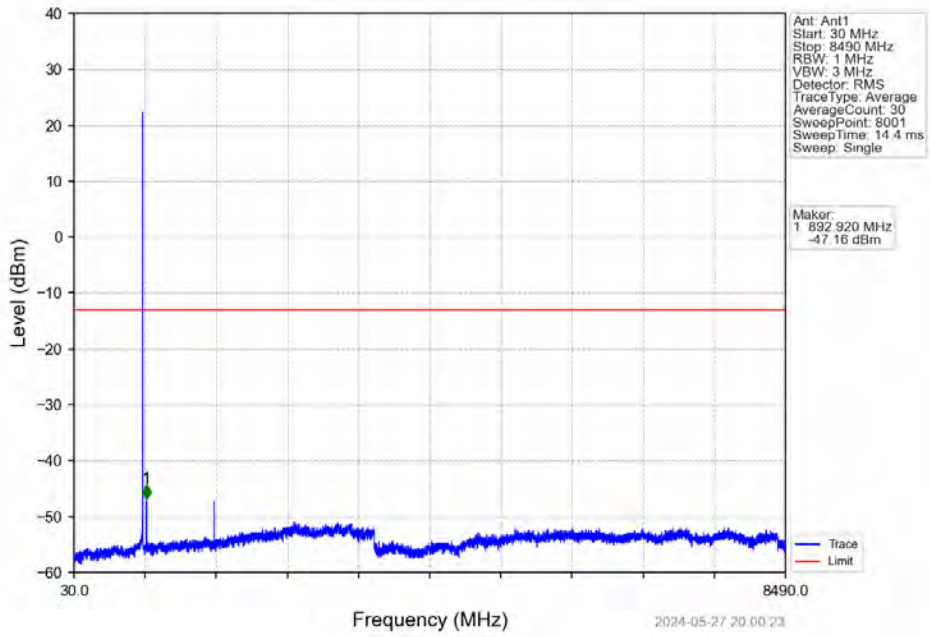
Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



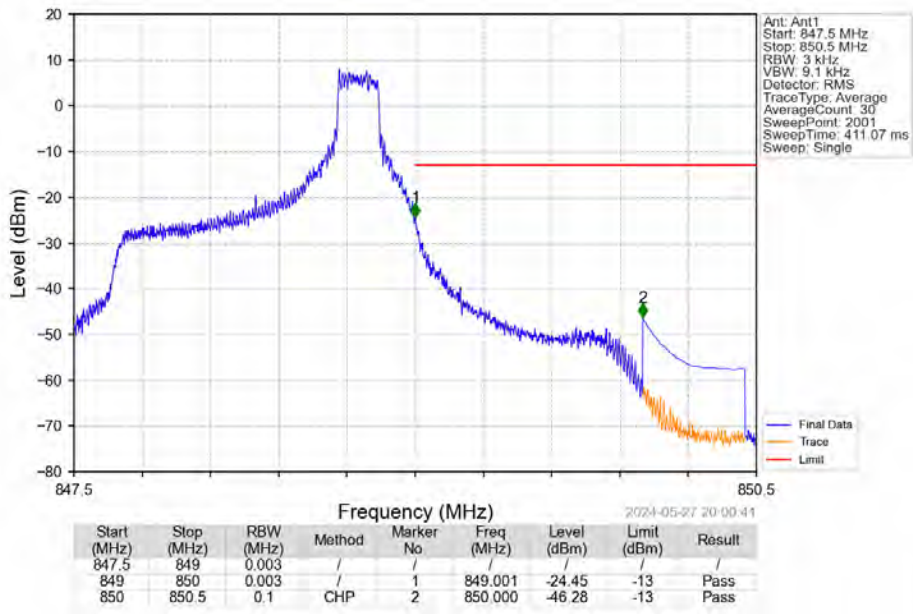
Marker:  
1 1671.240 MHz  
-44.13 dBm

2024-05-27 20:00:08

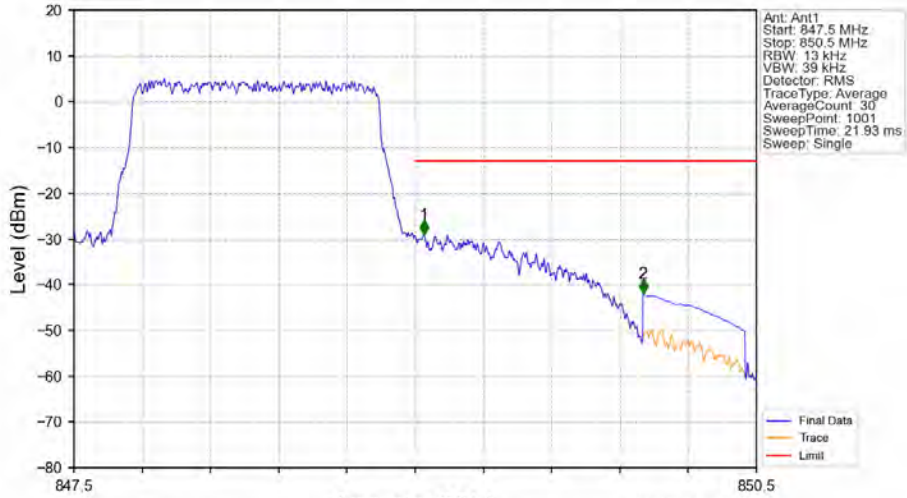
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



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



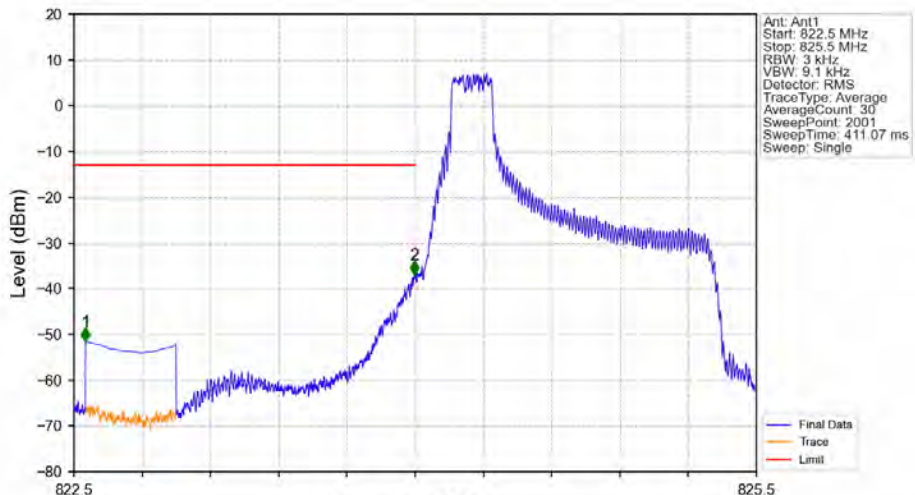
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



2024-05-27 20:00:46

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	1	849.039	-29.09	-13	Pass
849	850	0.013	/	2	850.002	-41.90	-13	Pass

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

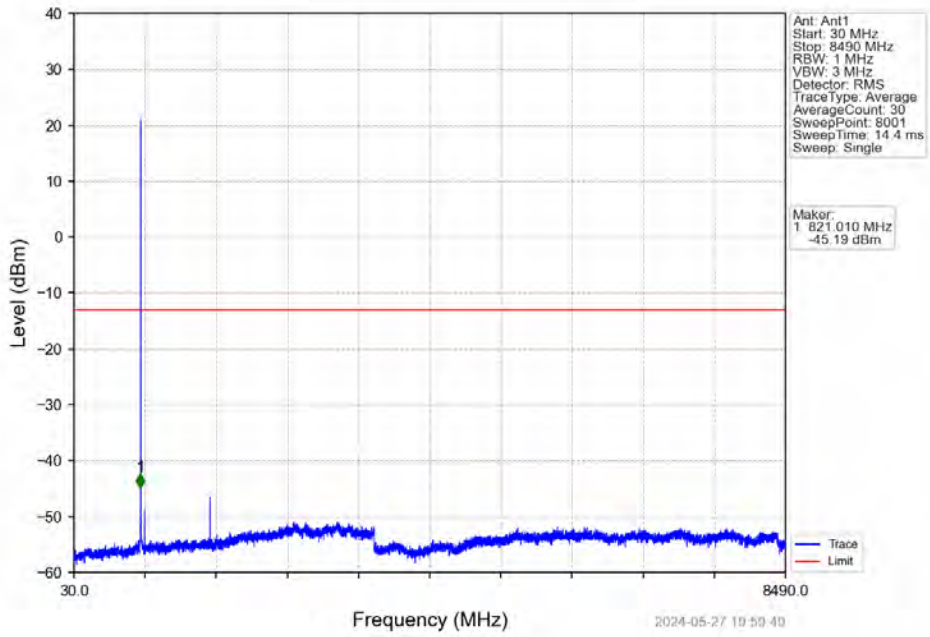


2024-05-27 19:59:41

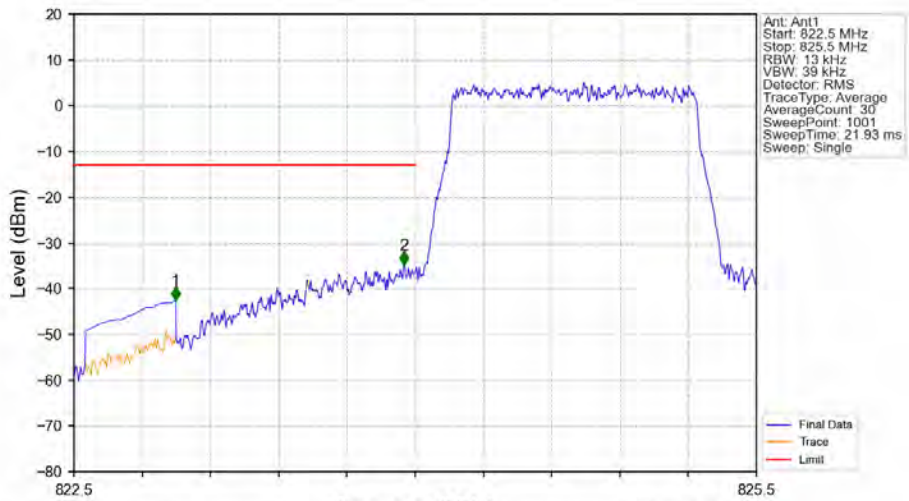
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-51.59	-13	Pass
823	824	0.003	/	2	823.997	-37.03	-13	Pass
824	825.5	0.003	/	/	/	/	/	/



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

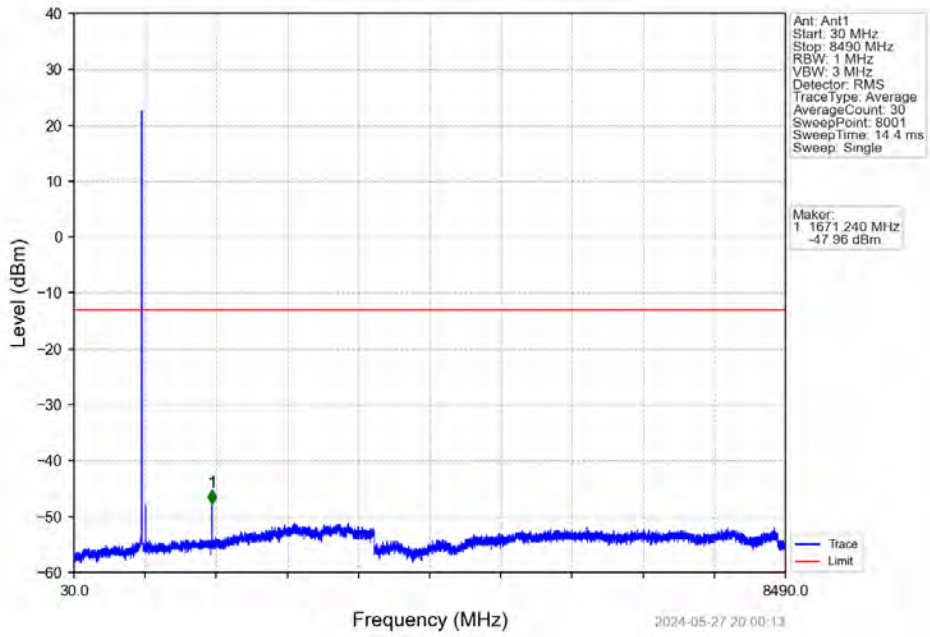


Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

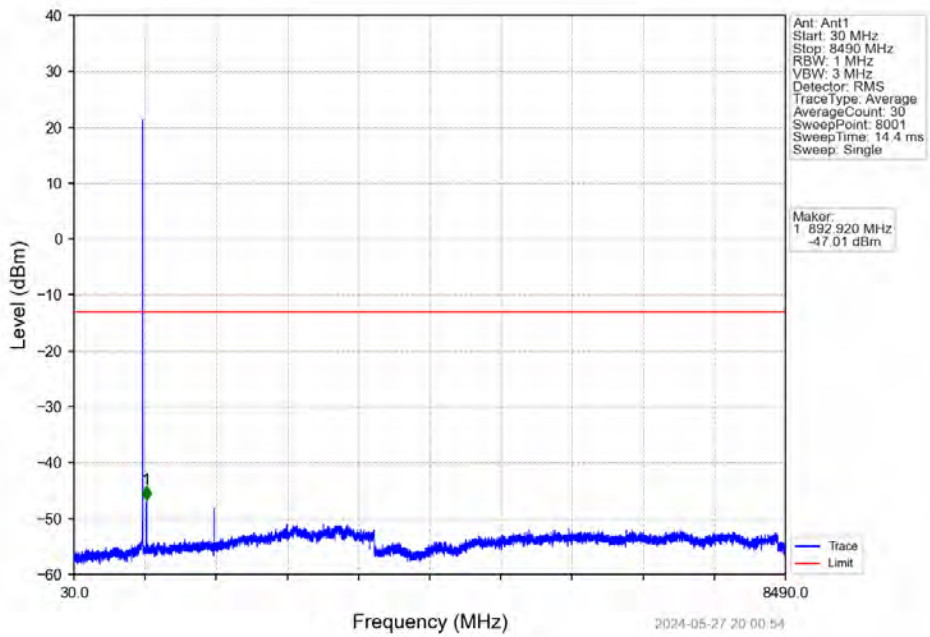


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-42.62	-13	Pass
823	824	0.013	/	2	823.952	-34.86	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

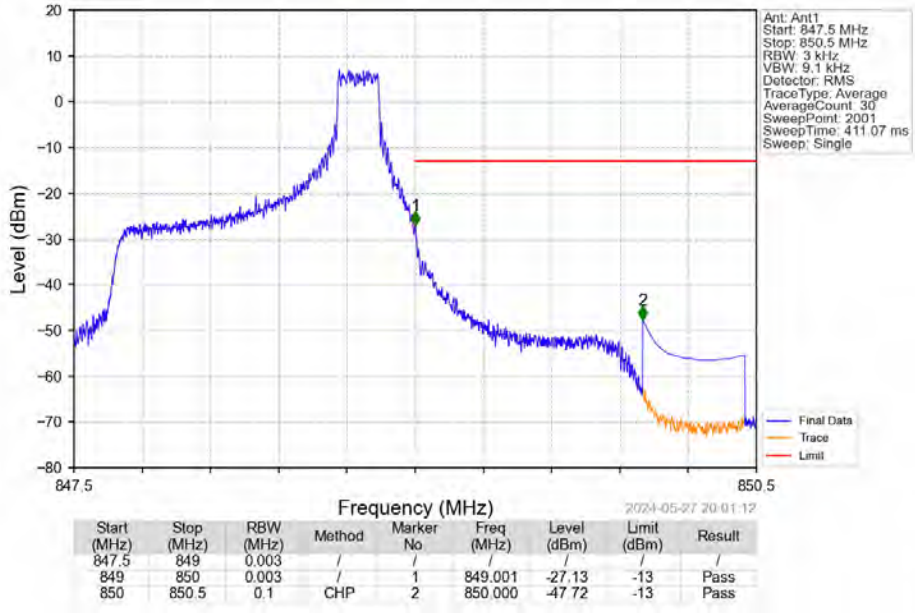
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



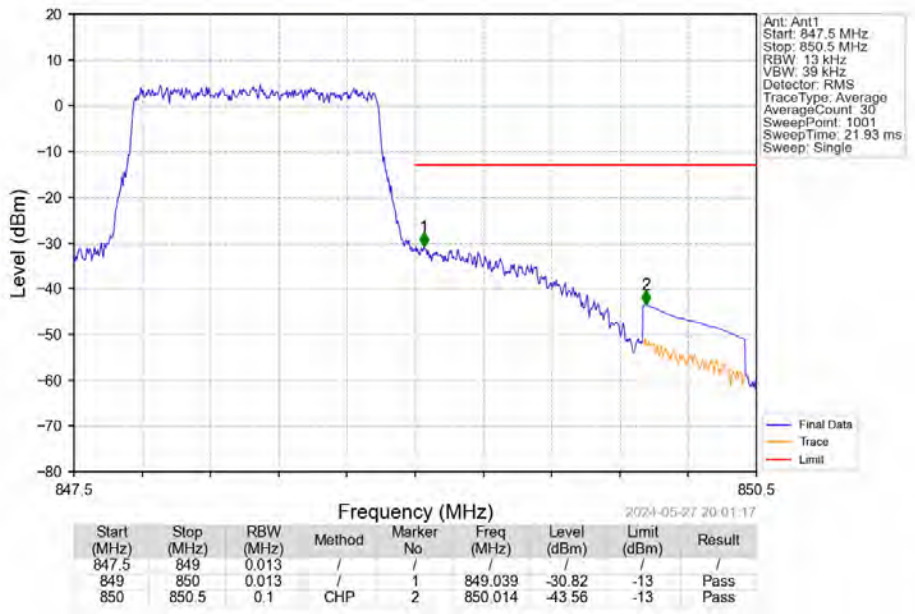
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



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



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

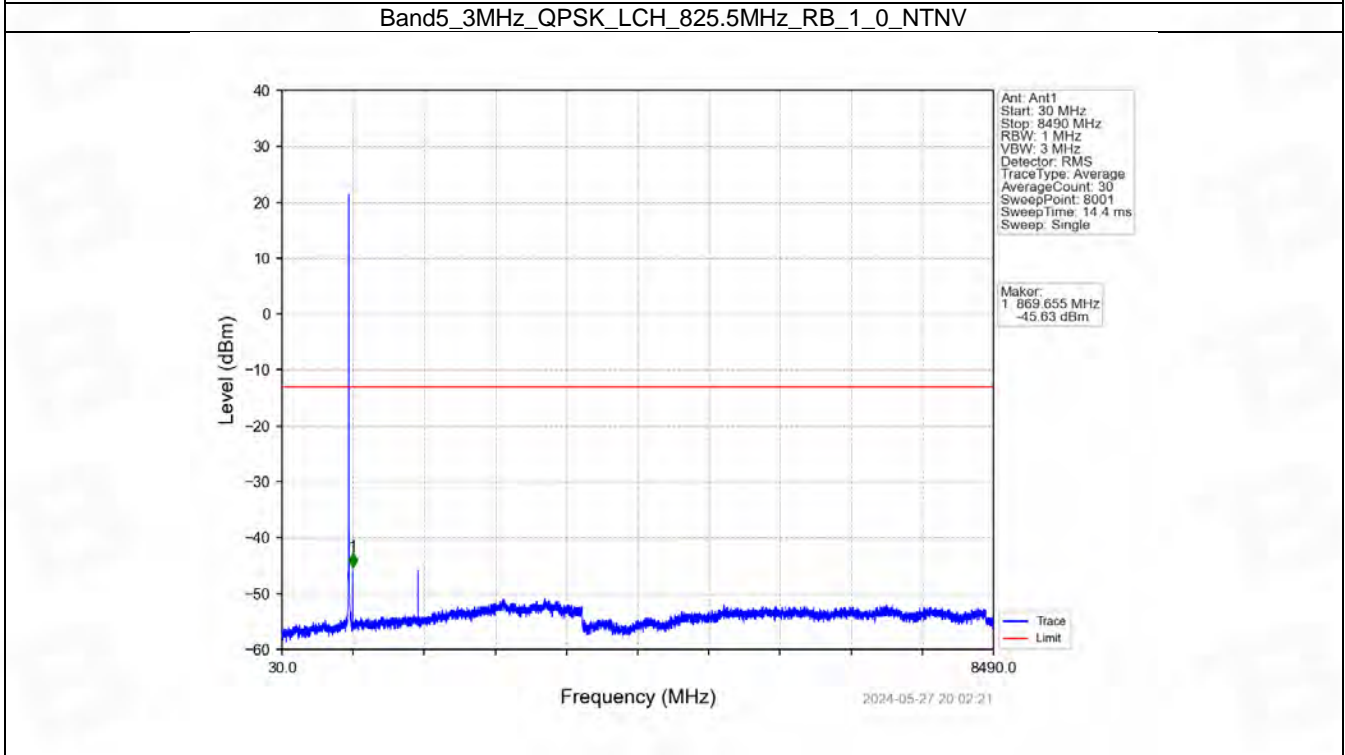
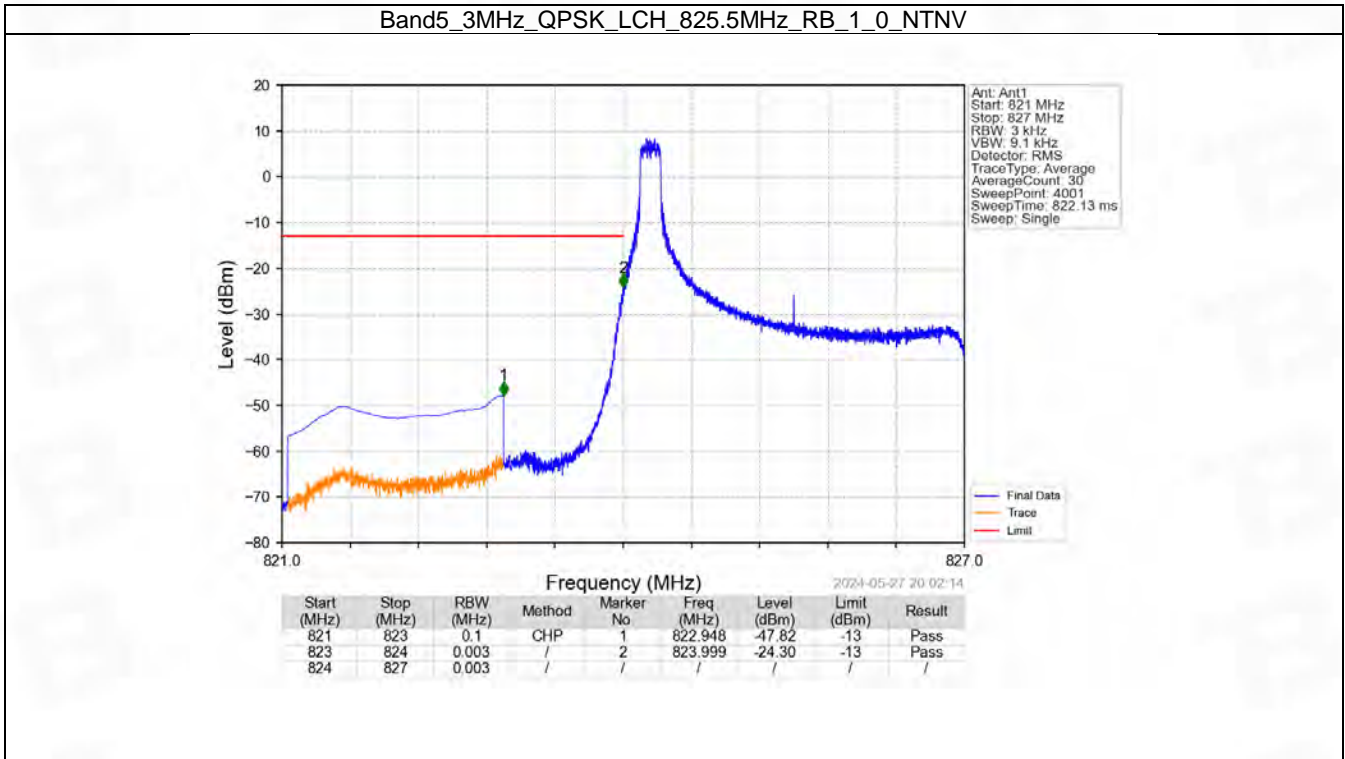


## 6.2 B5\_3MHz

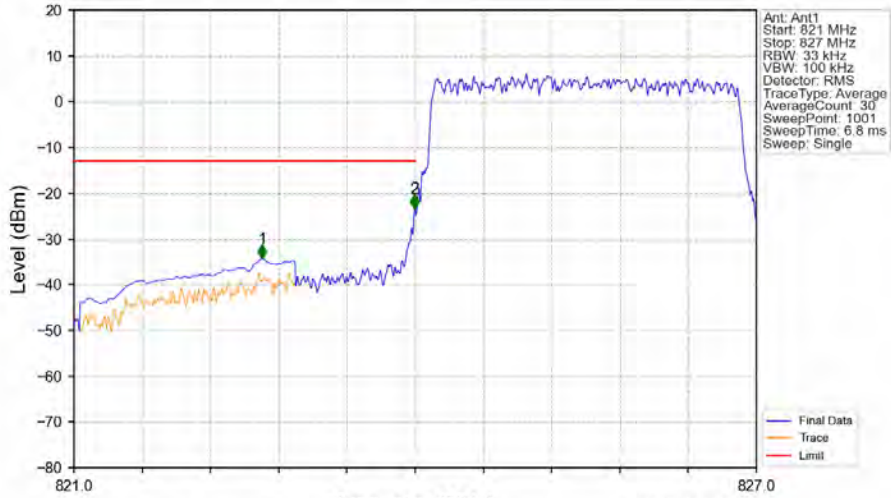
### 6.2.1 Test Result

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

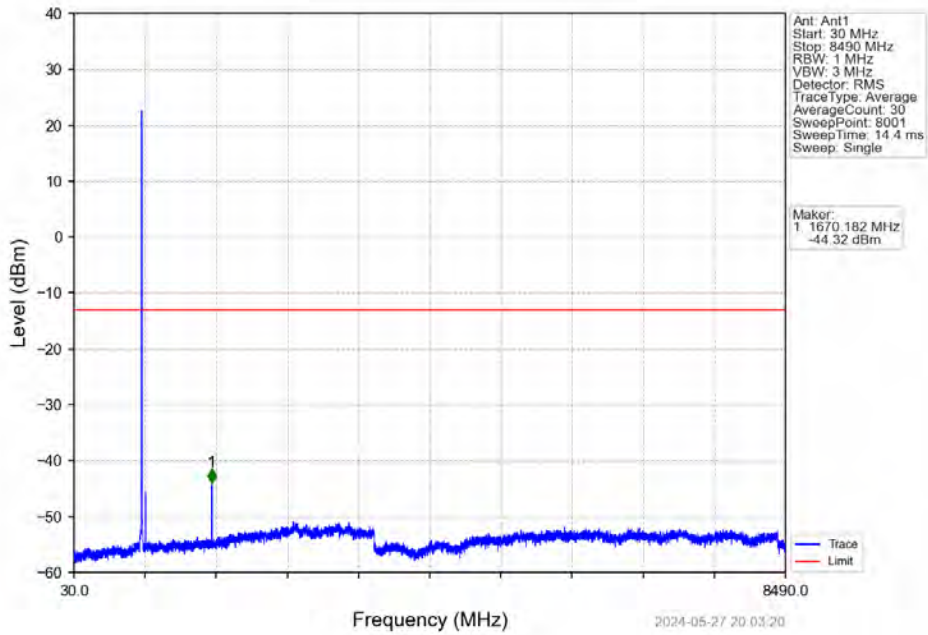


Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.656	-34.38	-13	Pass
823	824	0.033	/	2	823.994	-23.40	-13	Pass
824	827	0.033	/	/	/	/	/	/

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

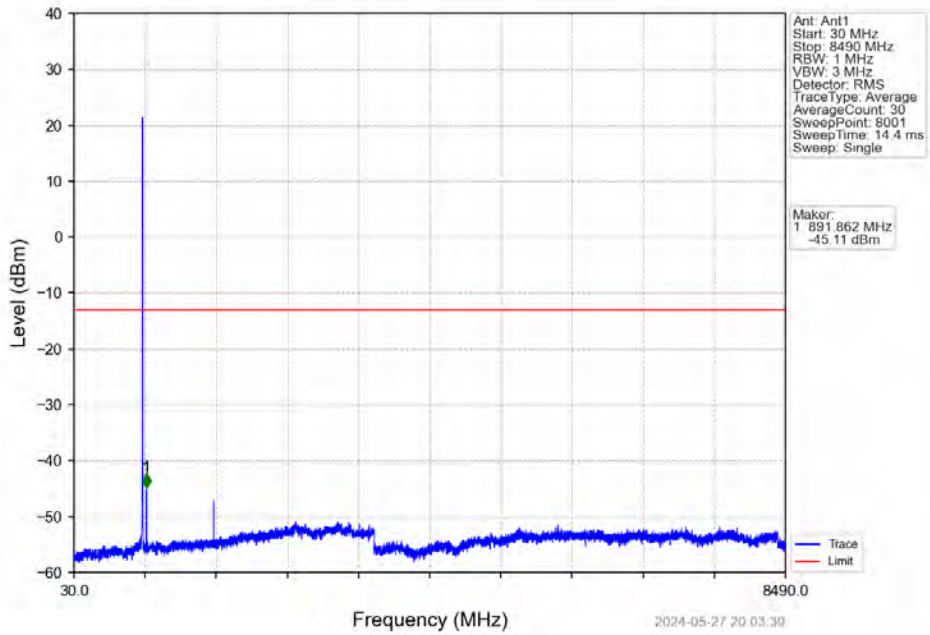


Ant: Ant1  
 Start: 821 MHz  
 Stop: 827 MHz  
 RBW: 33 kHz  
 VBW: 100 kHz  
 Detector: RMS  
 TraceType: Average  
 AverageCount: 30  
 SweepPoint: 1001  
 SweepTime: 6.8 ms  
 Sweep: Single

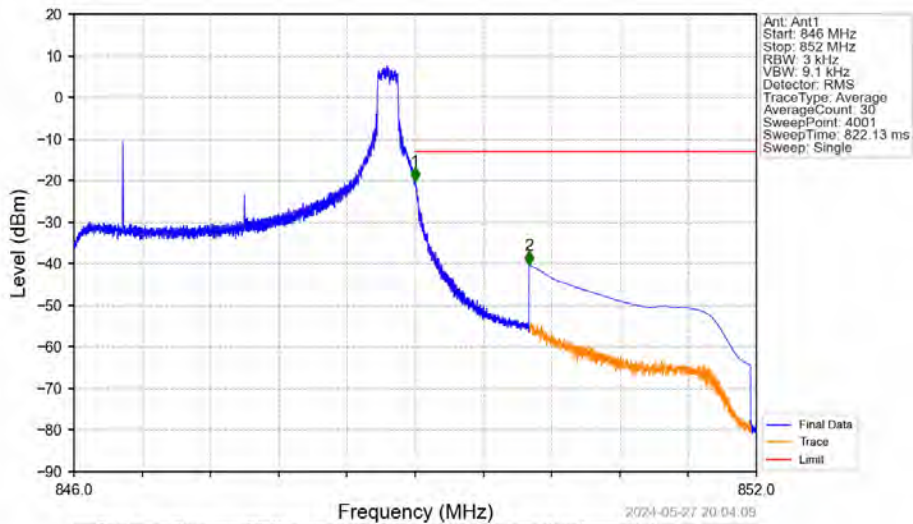
Marker:  
 1 1670.182 MHz  
 -44.32 dBm

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

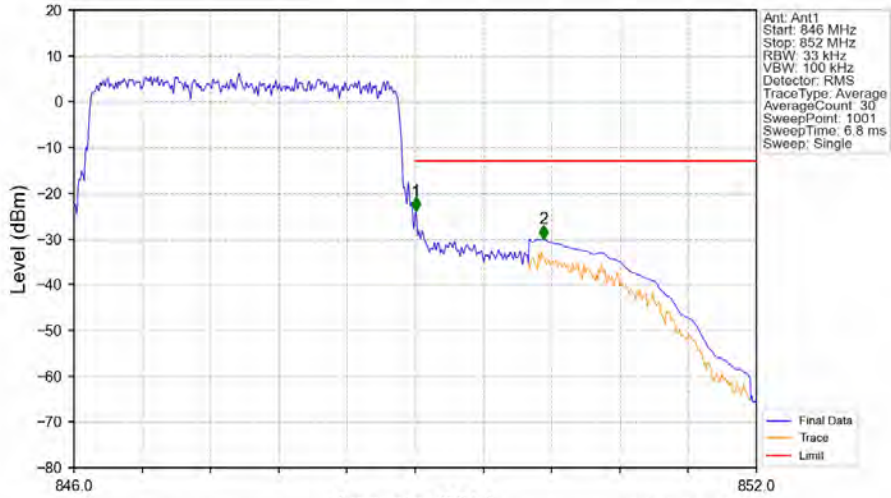


Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	1	849.000	-20.10	-13	Pass
849	850	0.003	/	1	849.000	-20.10	-13	Pass
850	852	0.1	CHP	2	850.000	-40.29	-13	Pass

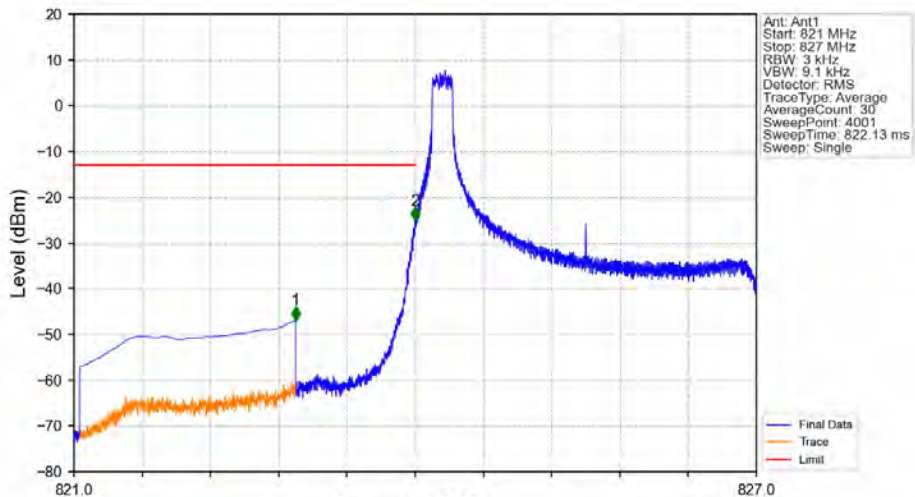
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	1	849.006	-23.91	-13	Pass
849	850	0.033	/	1	849.006	-23.91	-13	Pass
850	852	0.1	CHP	2	850.128	-30.02	-13	Pass

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

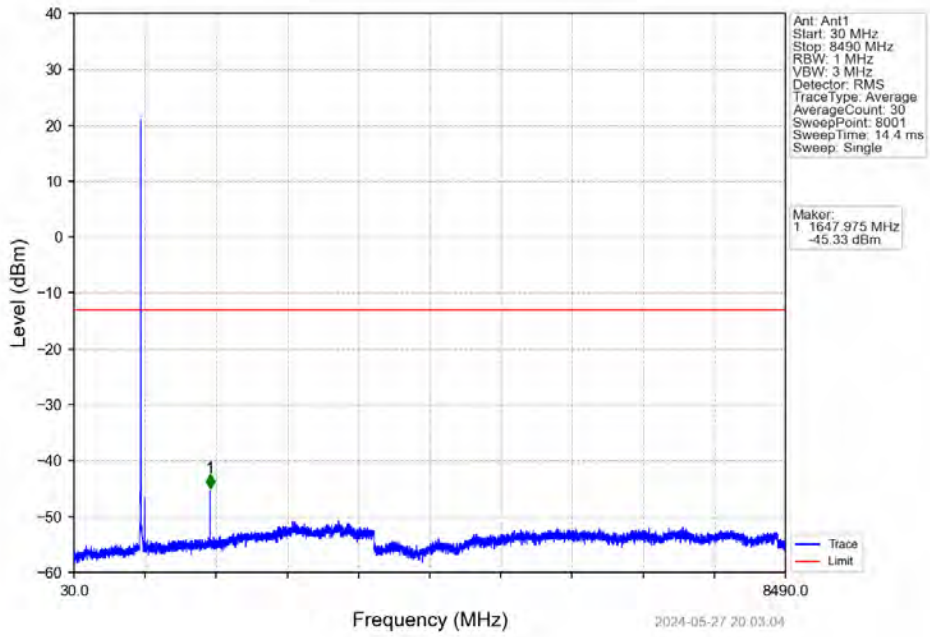


2024-05-27 20:02:57

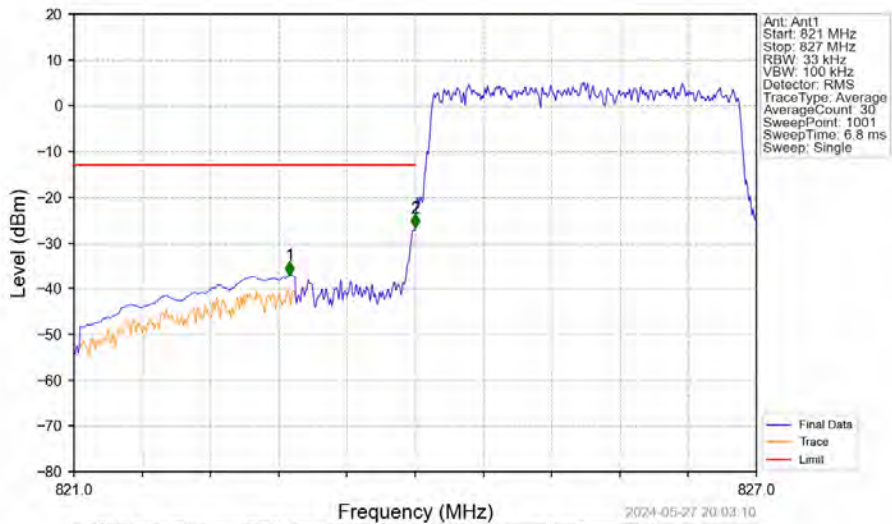
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-46.94	-13	Pass
823	824	0.003	/	2	824.000	-25.14	-13	Pass
824	827	0.003	/	/	/	/	/	/



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

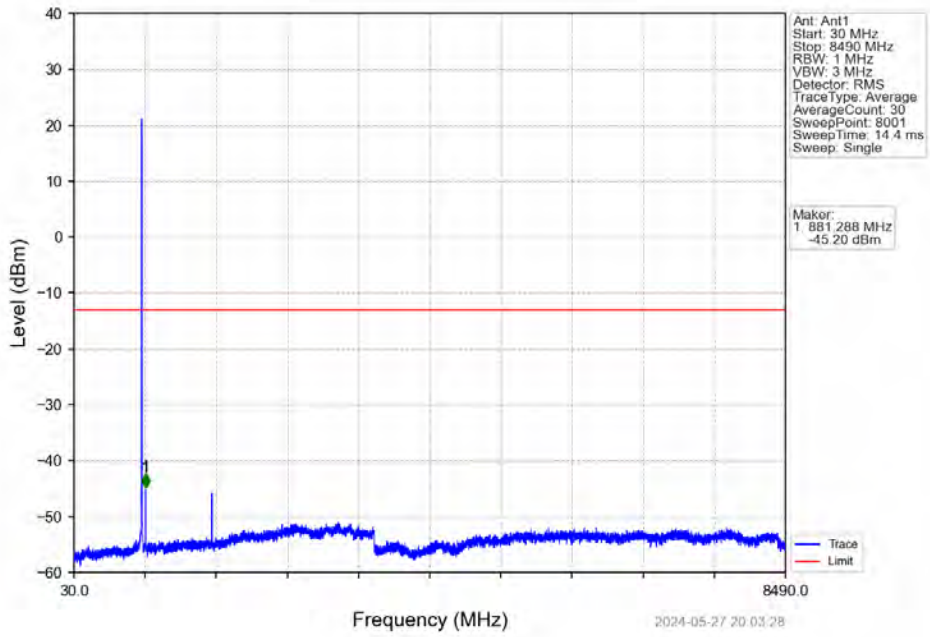


Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

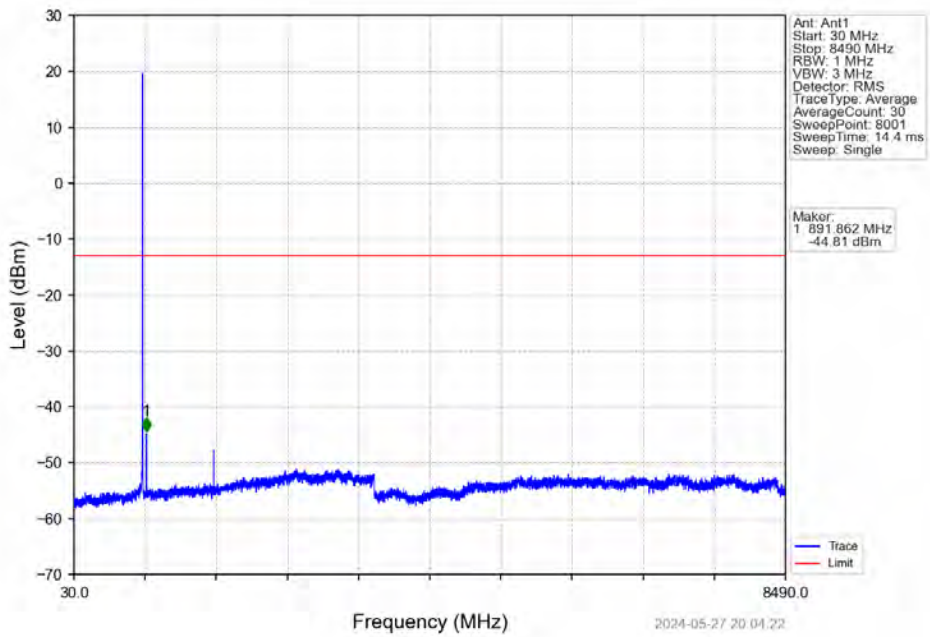


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.896	-37.05	-13	Pass
823	824	0.033	/	2	824.000	-26.81	-13	Pass
824	827	0.033	/	/	/	/	/	/

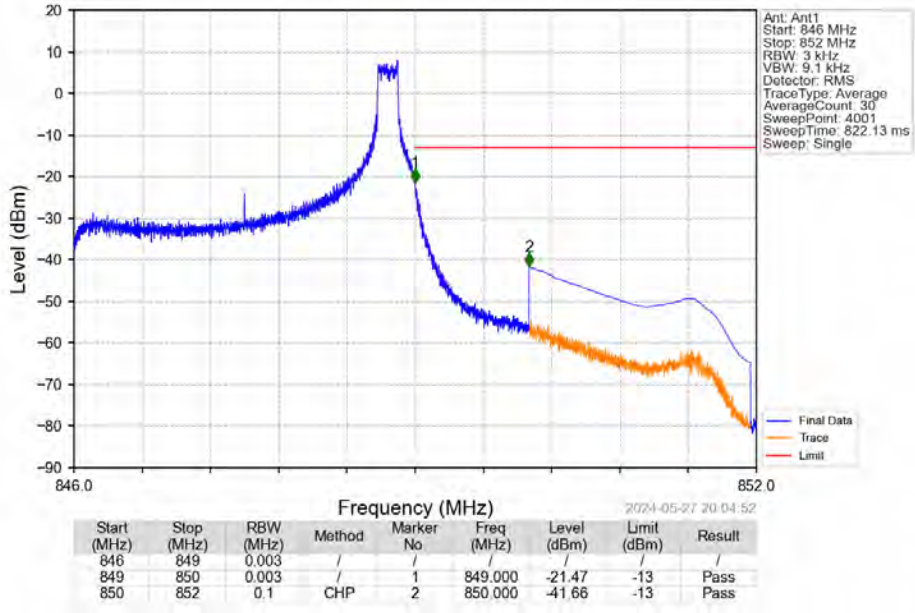
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



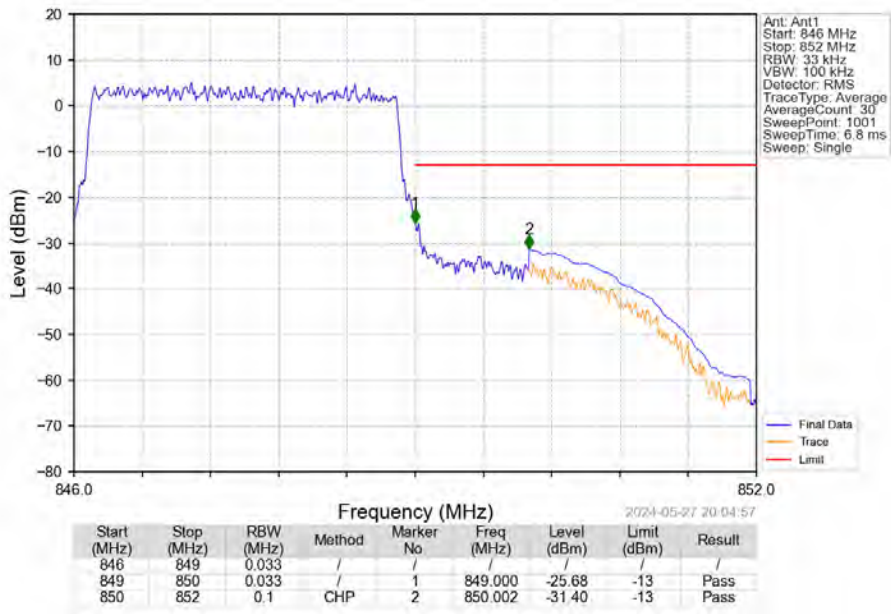
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



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



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

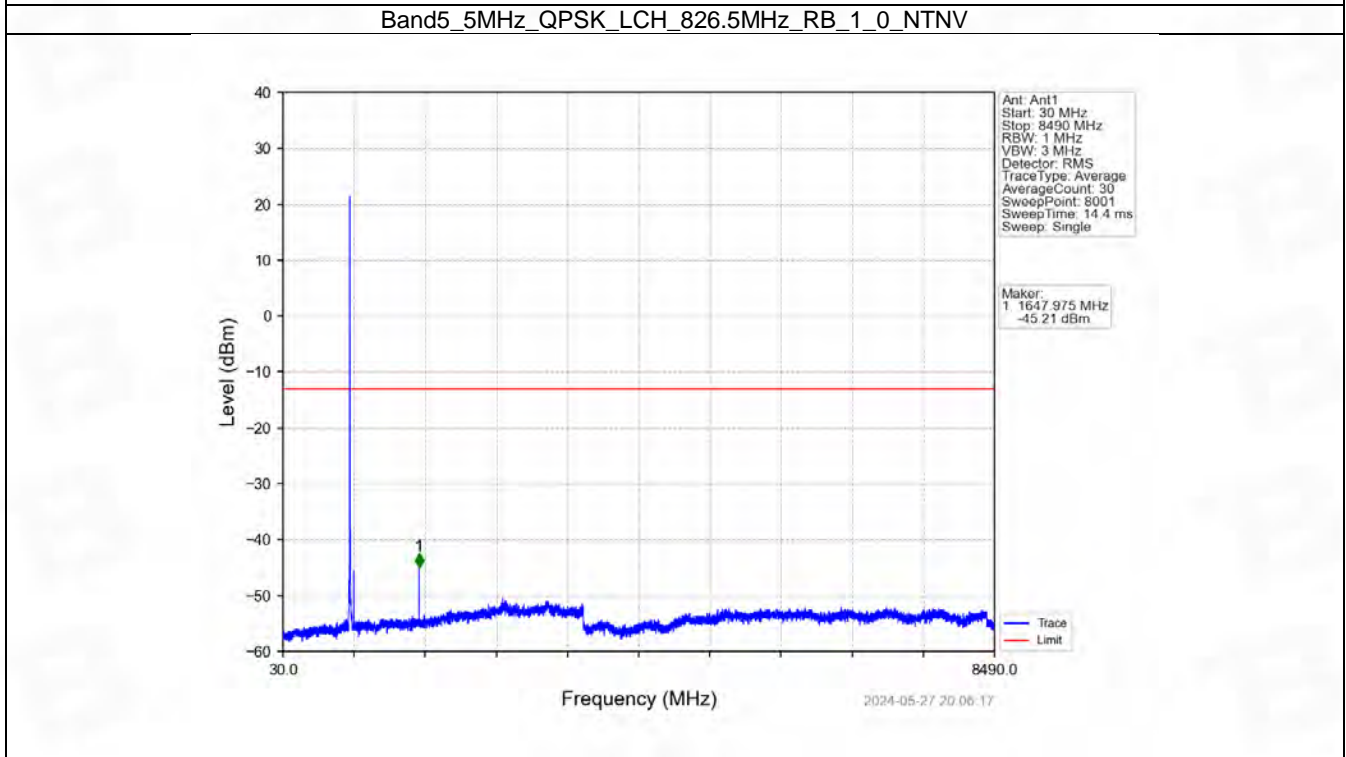
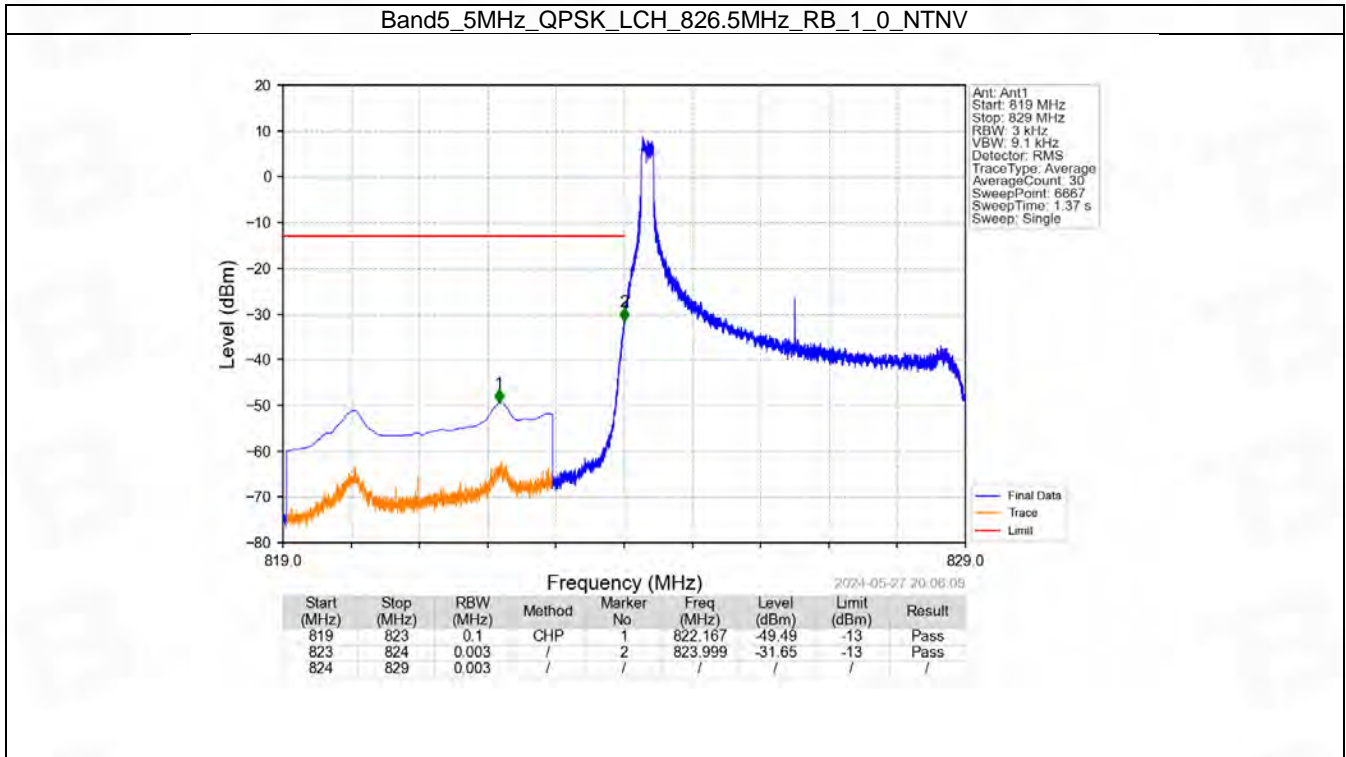


## 6.3 B5\_5MHz

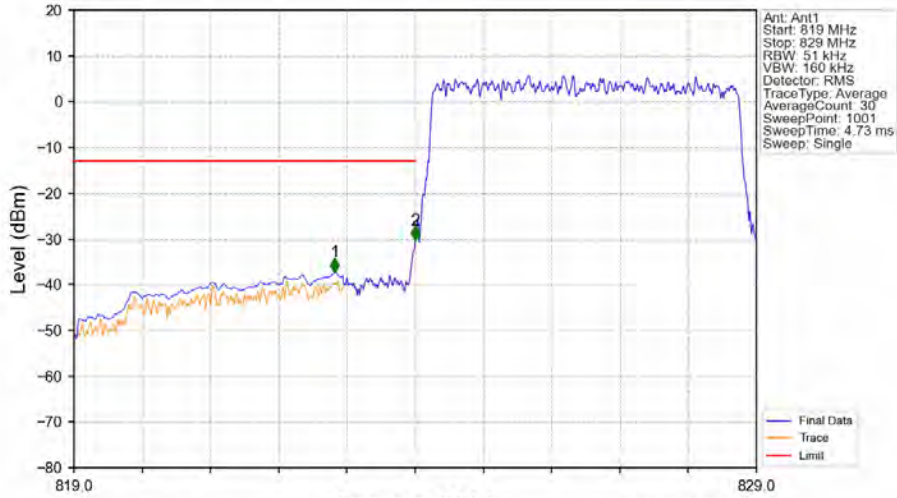
### 6.3.1 Test Result

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

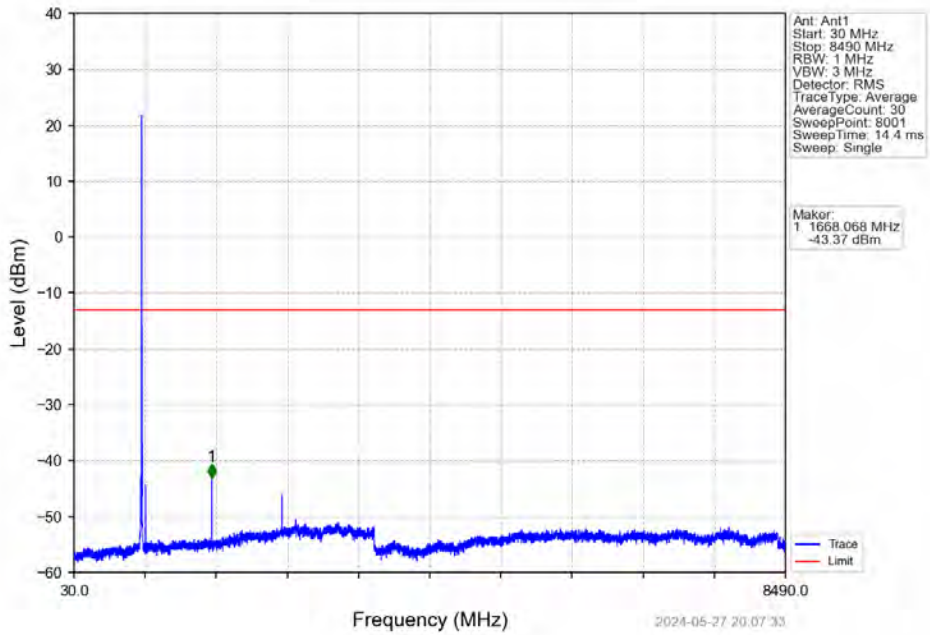


Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

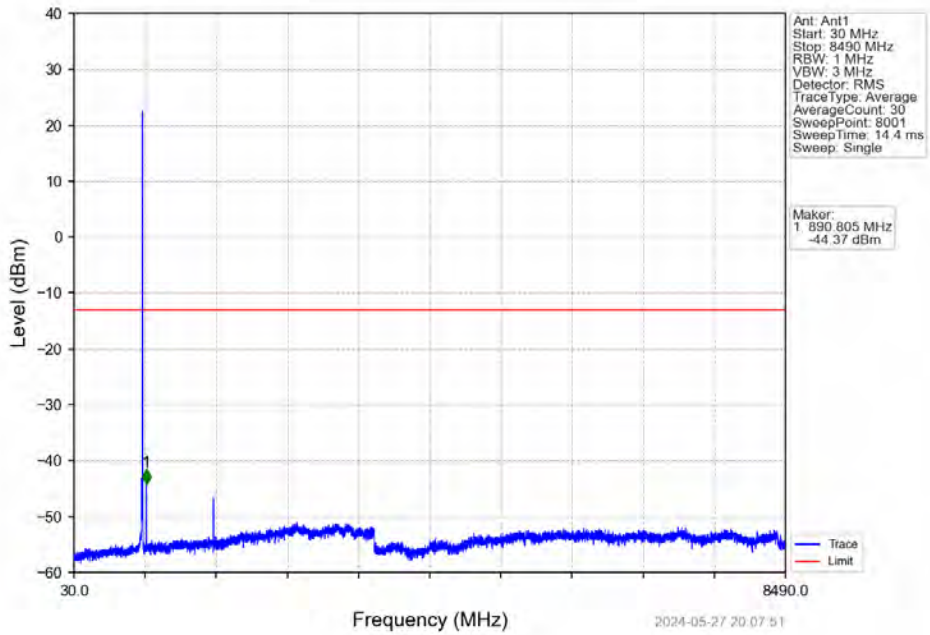


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.820	-37.24	-13	Pass
823	824	0.051	/	2	824.000	-30.27	-13	Pass
824	829	0.051	/	/	/	/	/	/

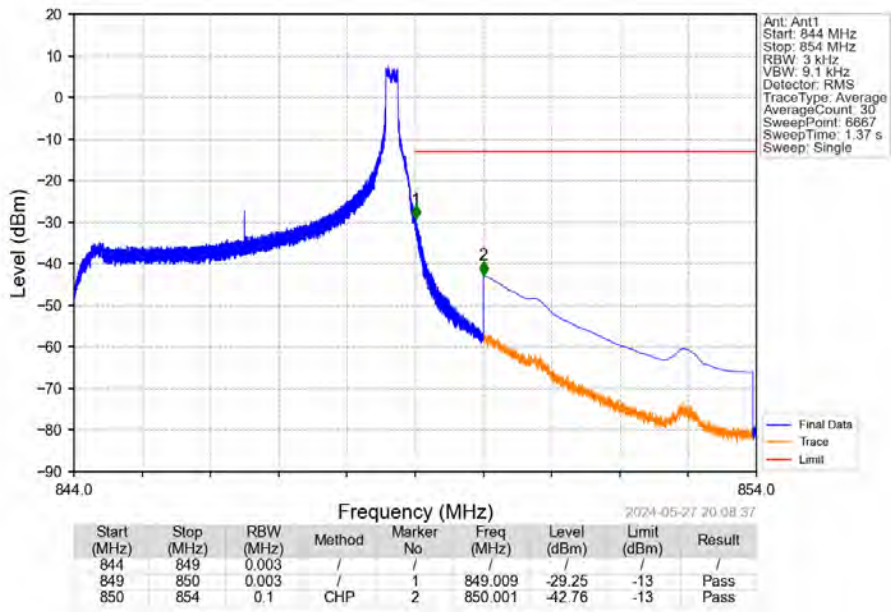
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



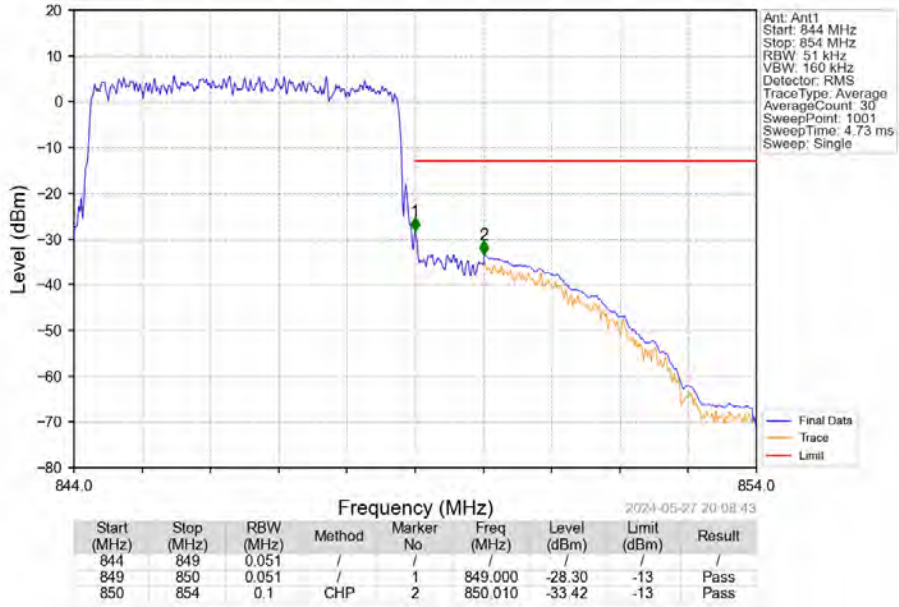
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



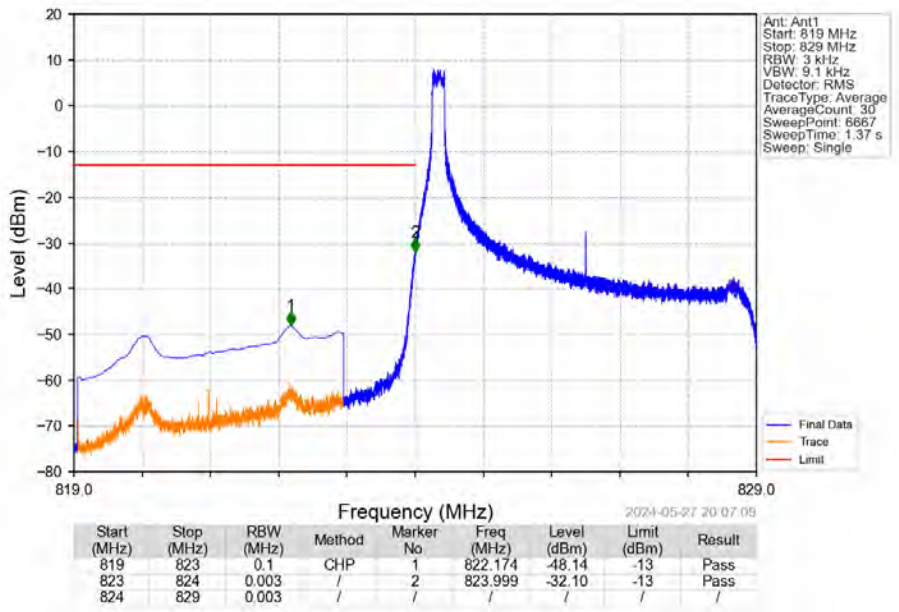
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



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

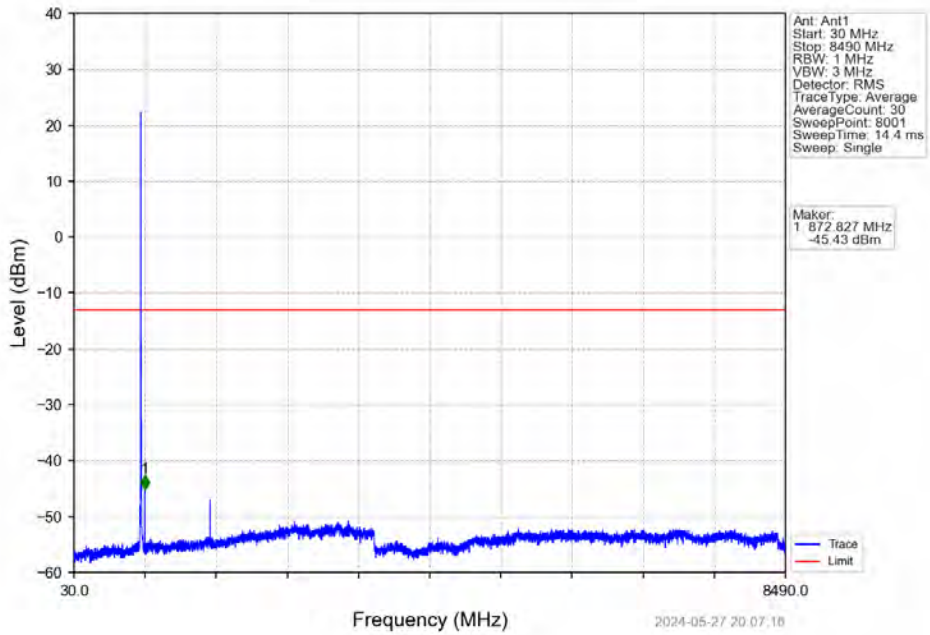


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

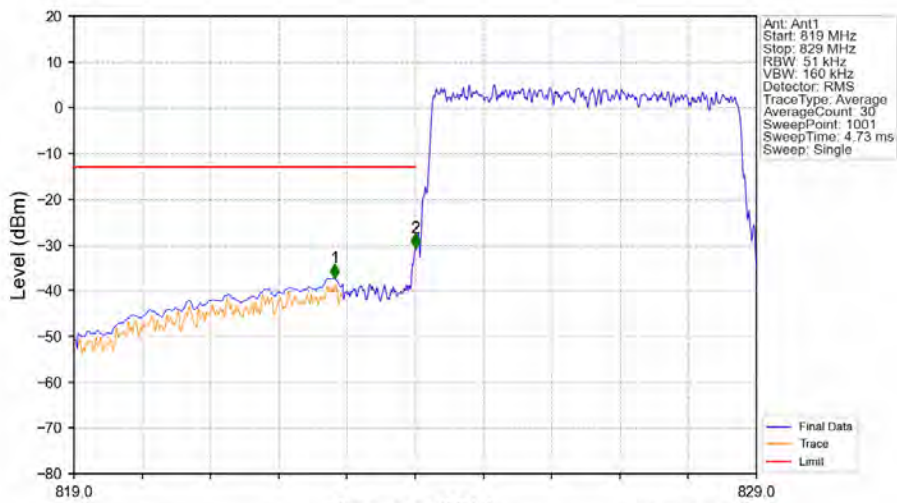




Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

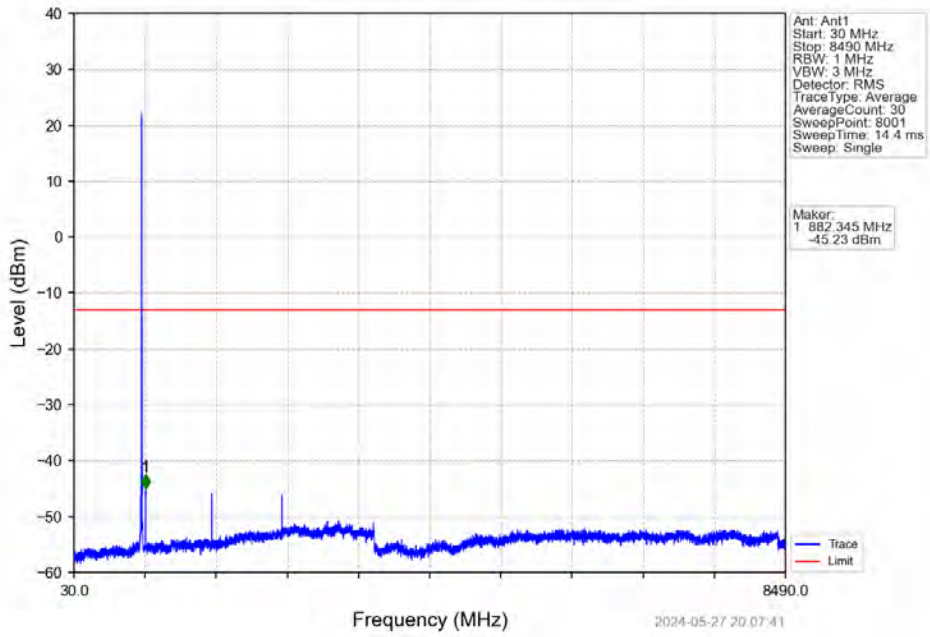


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

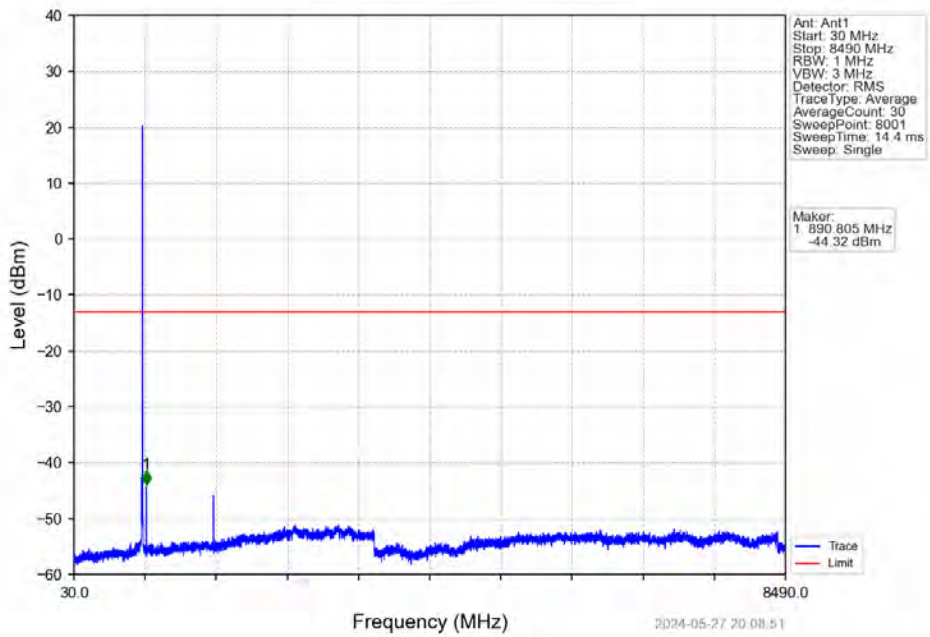


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.820	-37.26	-13	Pass
823	824	0.051	/	2	824.000	-30.66	-13	Pass
824	829	0.051	/	/	/	/	/	/

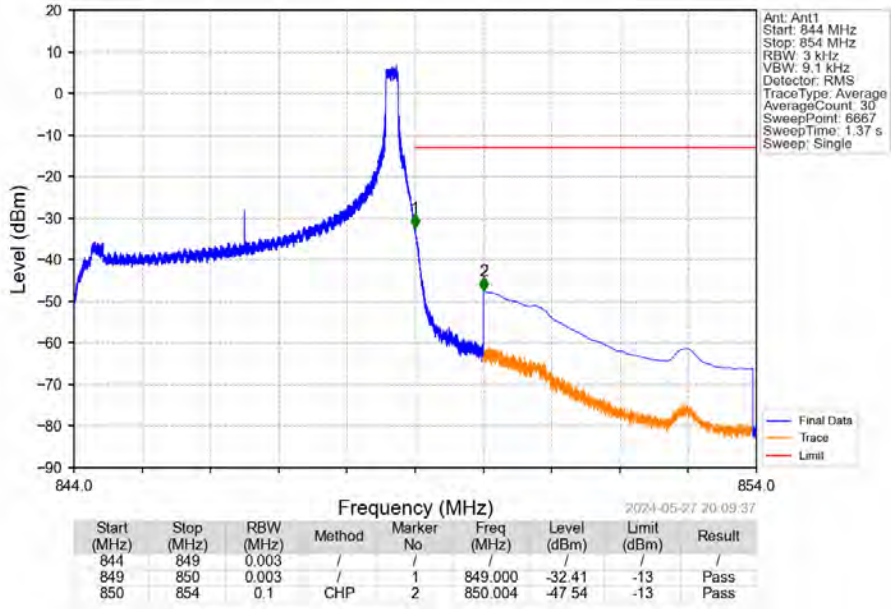
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



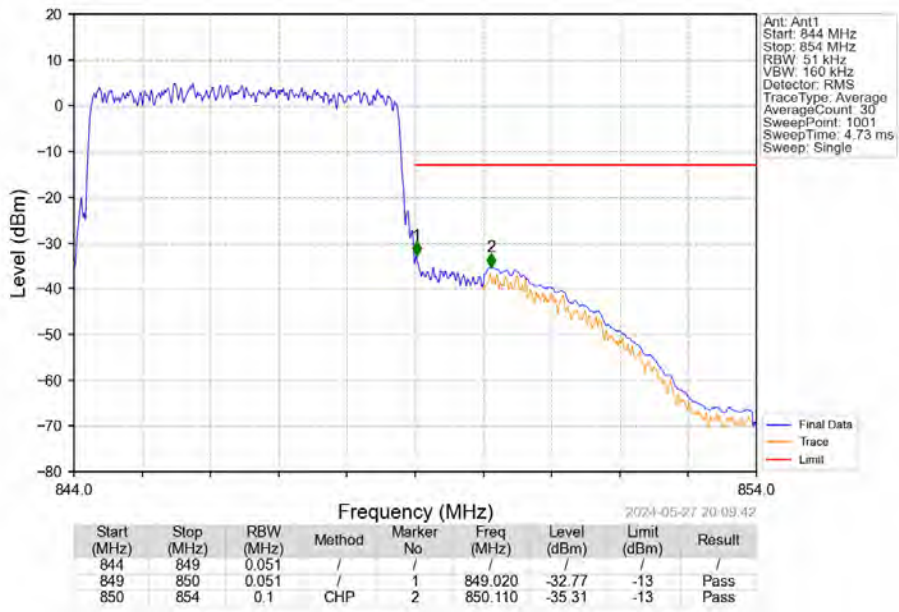
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



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



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

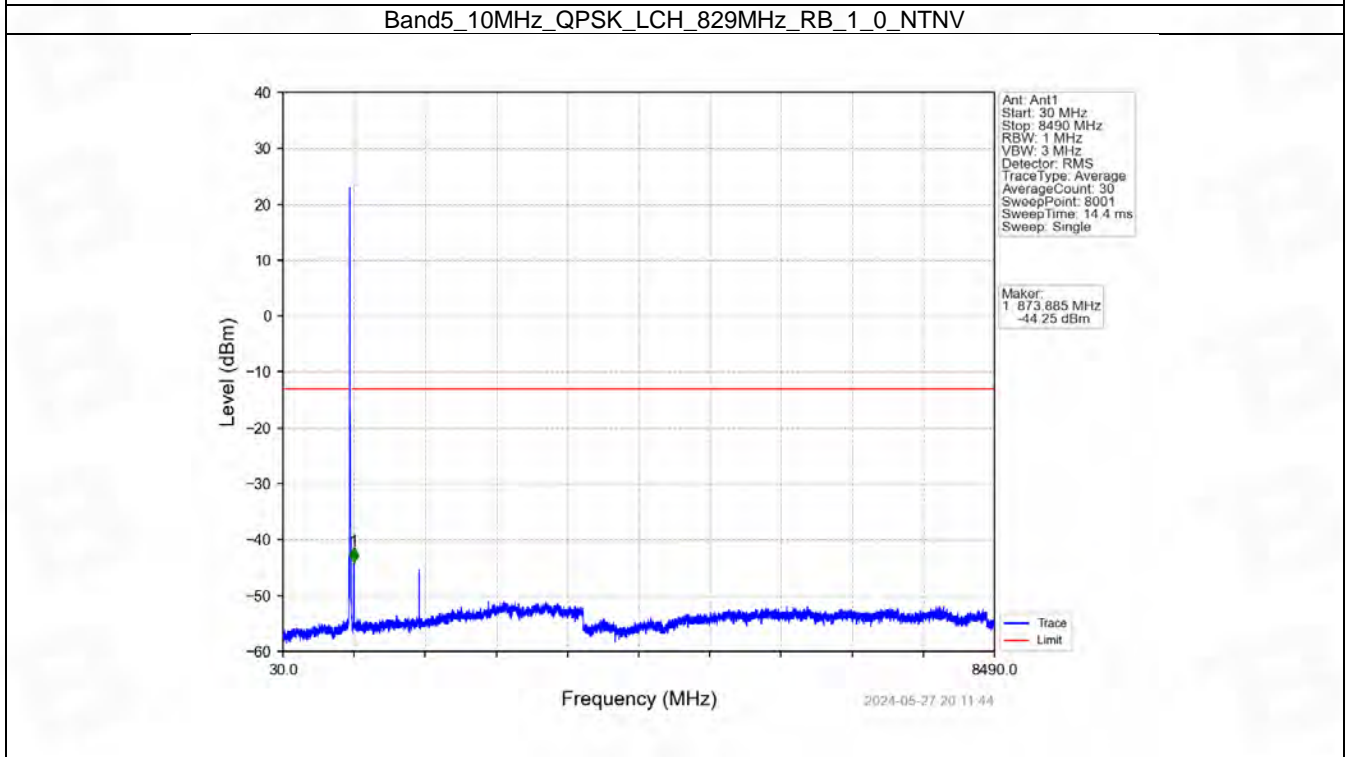
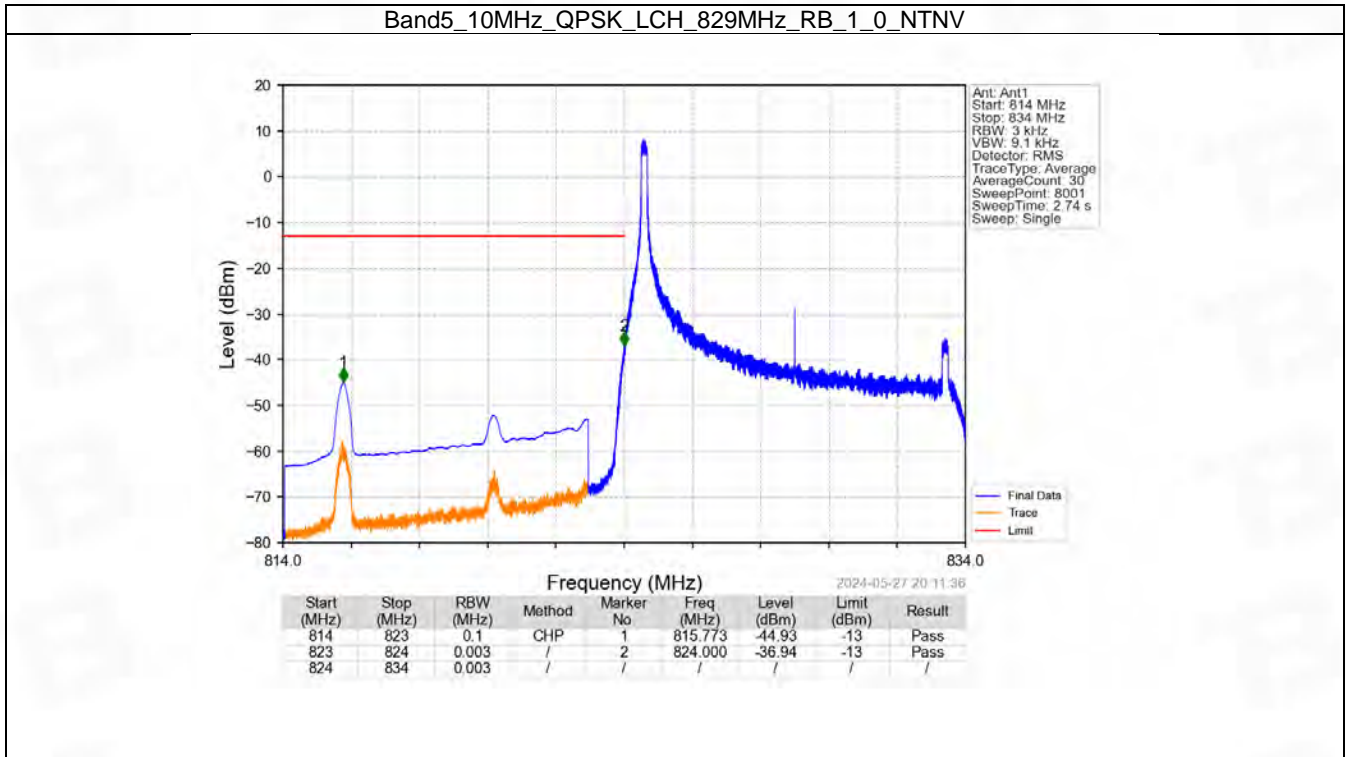


## 6.4 B5\_10MHz

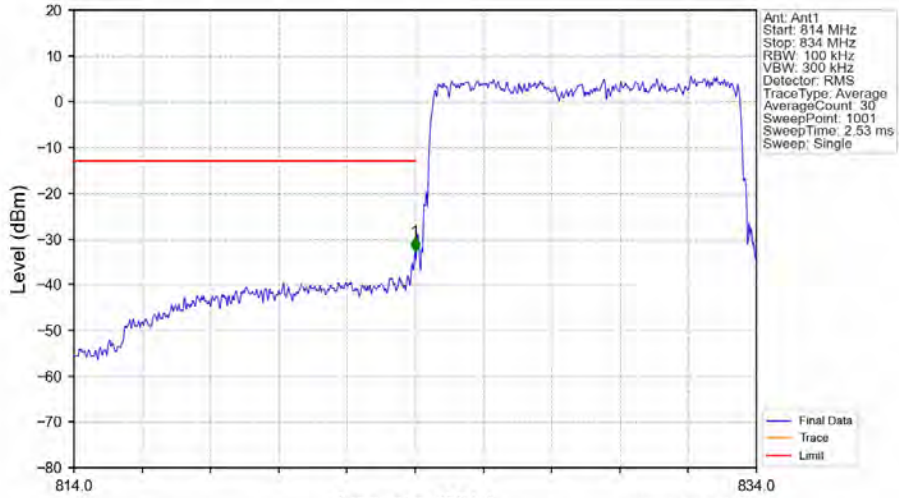
### 6.4.1 Test Result

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

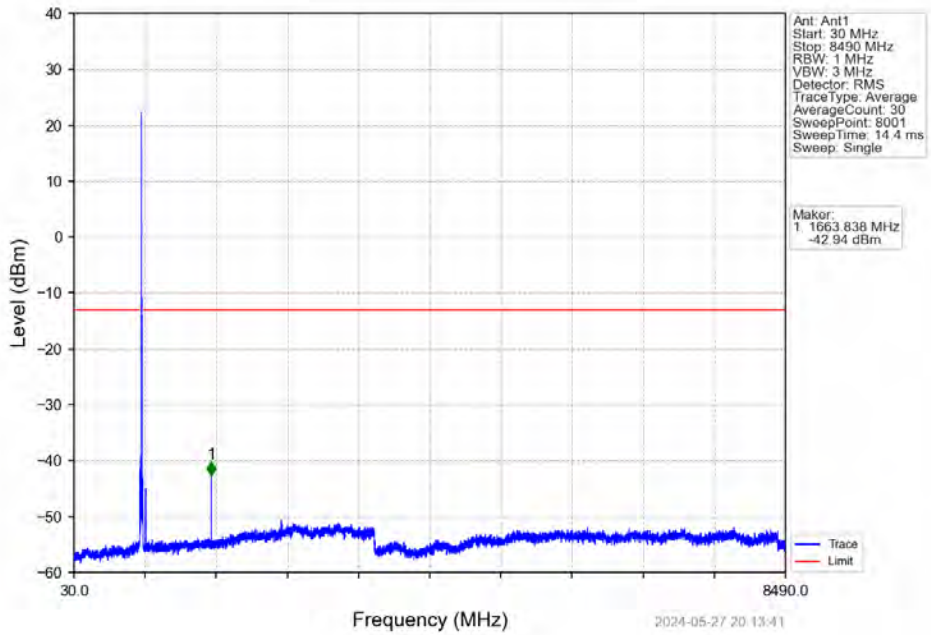


Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



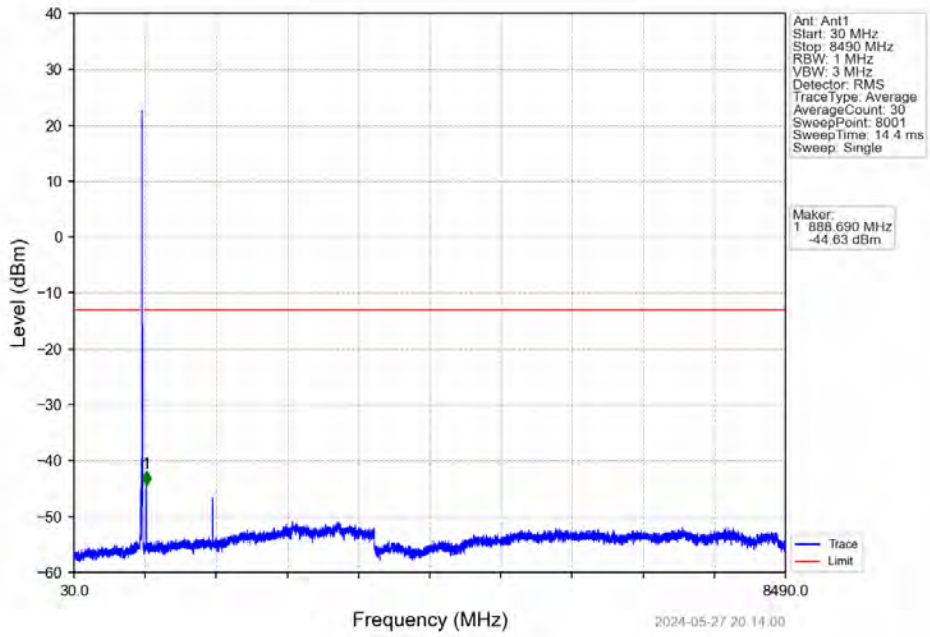
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	1	824.000	-32.72	-13	Pass
824	834	0.1	/	/	/	/	/	/

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

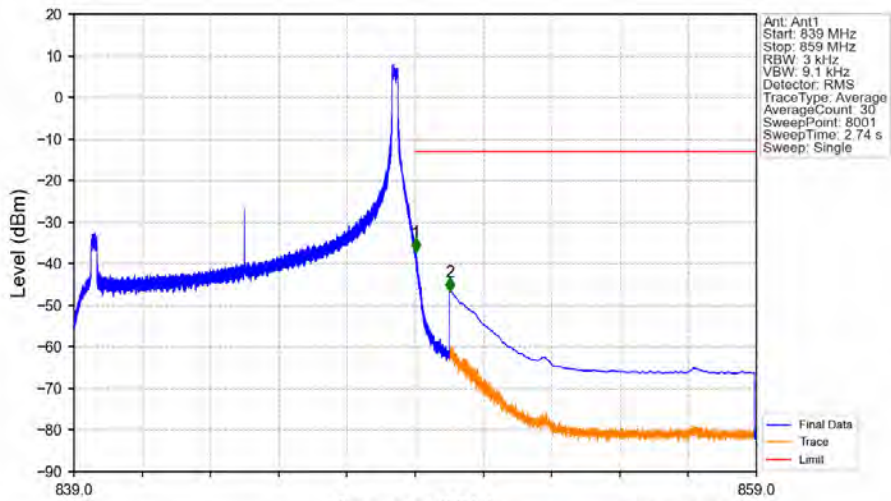


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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV

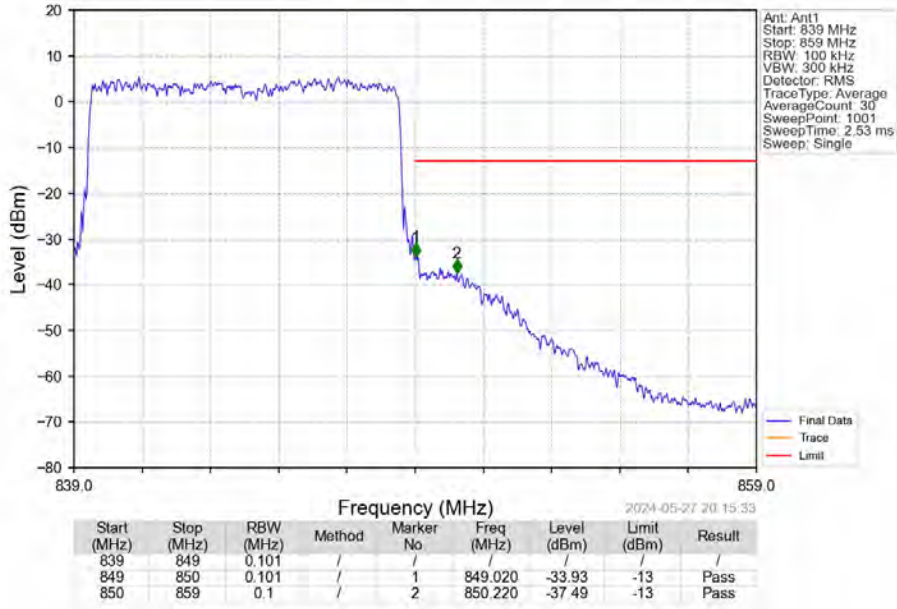


Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV

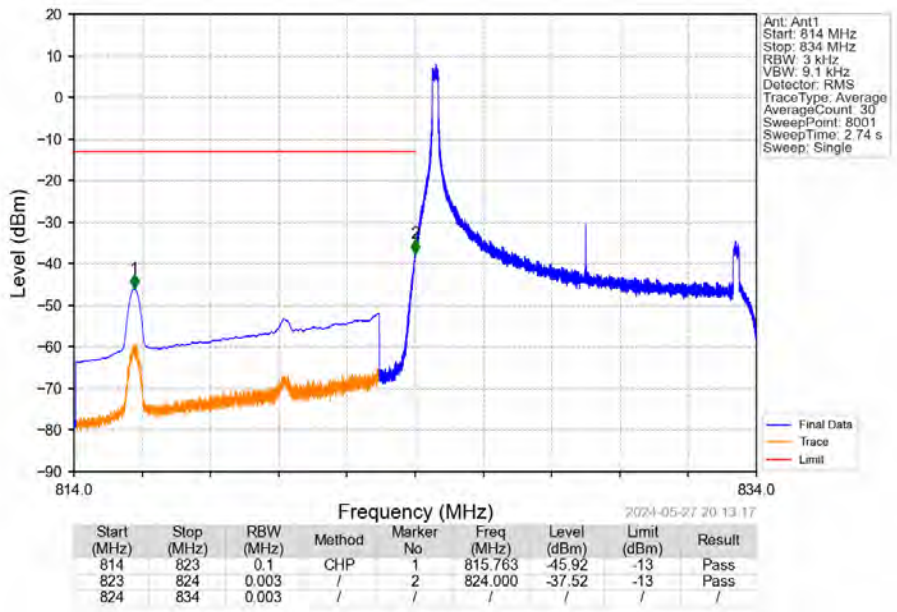


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	1	849.013	-37.17	-13	Pass
849	850	0.003	/	1	849.013	-37.17	-13	Pass
850	859	0.1	CHP	2	850.028	-46.75	-13	Pass

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

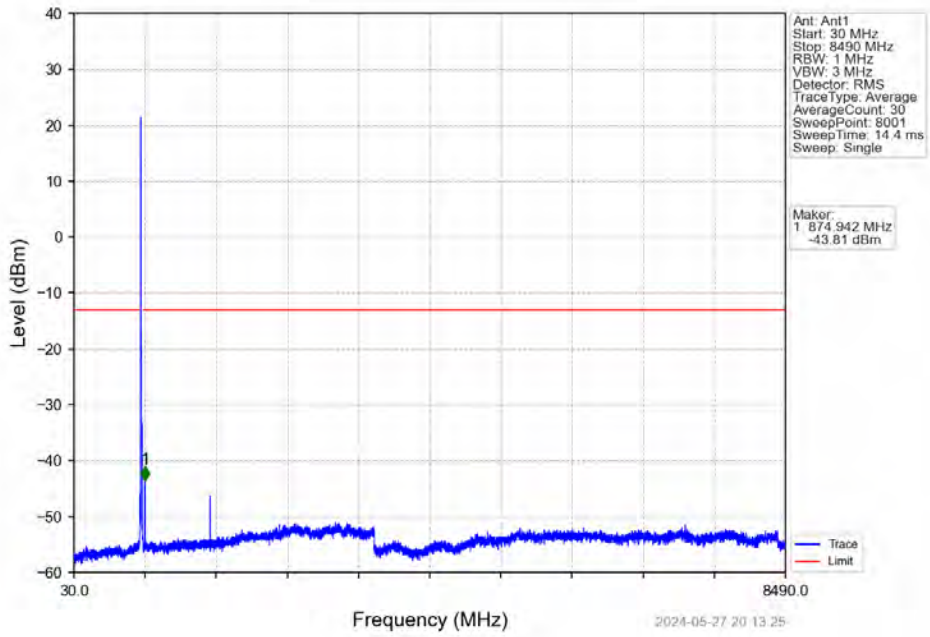


Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV

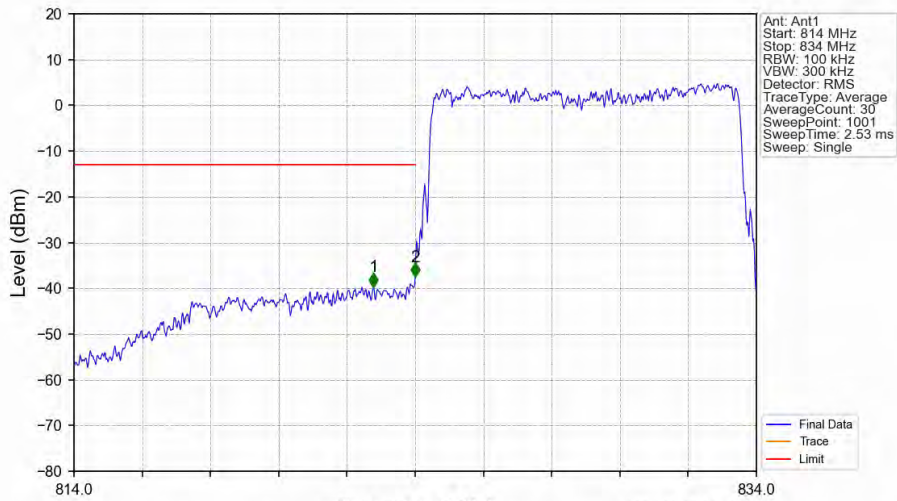




Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV

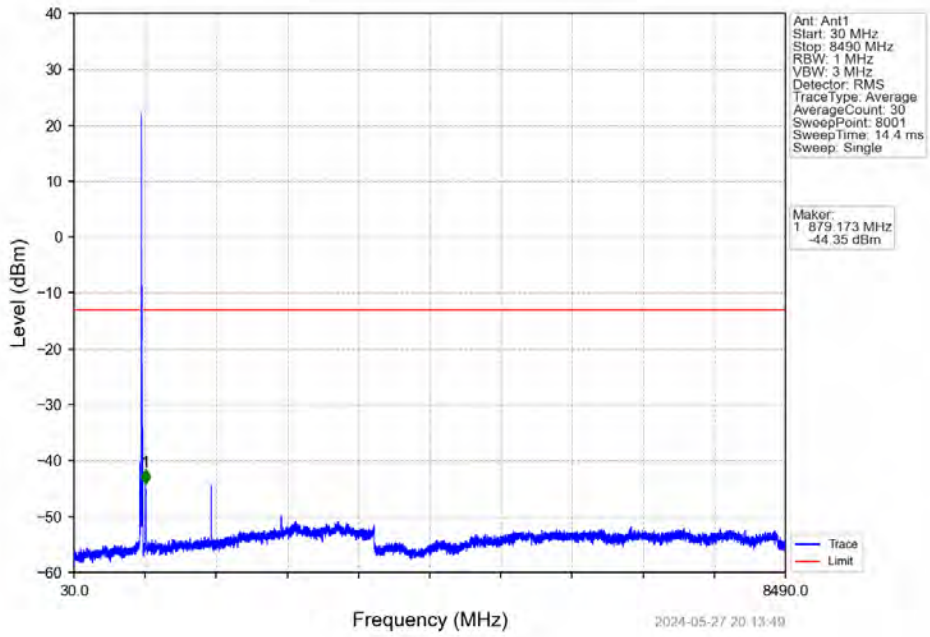


Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV

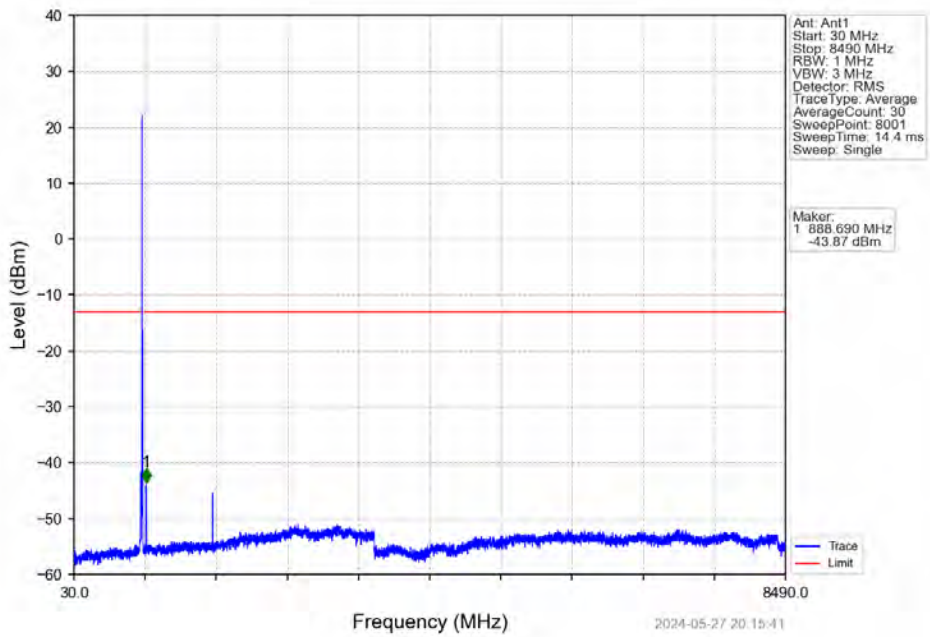


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.780	-39.73	-13	Pass
823	824	0.101	/	2	824.000	-37.53	-13	Pass
824	834	0.101	/	/	/	/	/	/

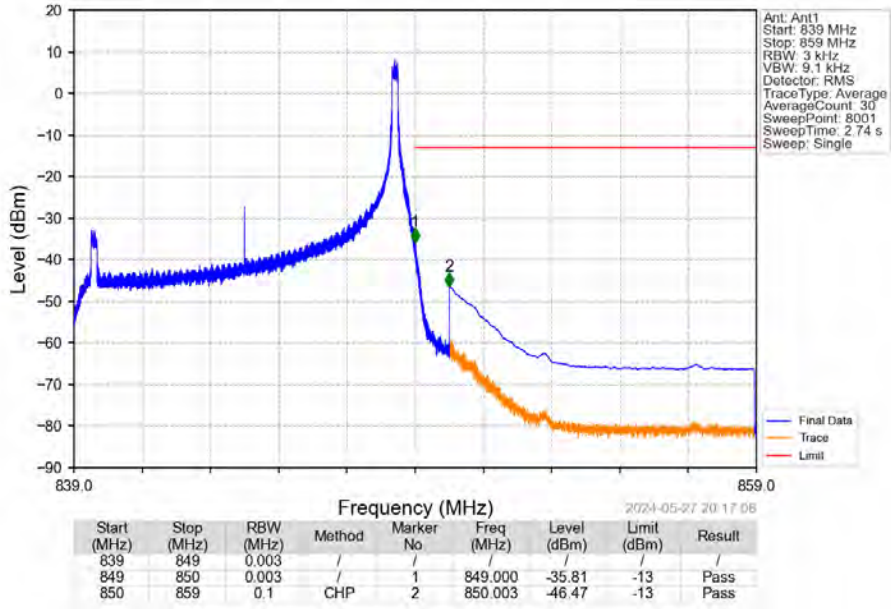
Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



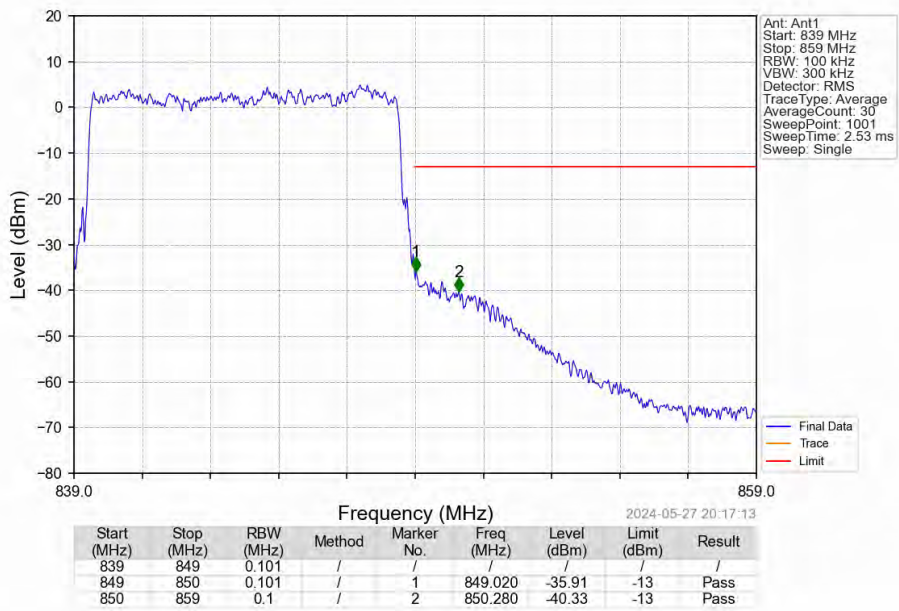
Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



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	0.2178	0.0524	ppm	1M12G7D	22H	23.38
5	1.4	824.7	848.3	0.2009	0.0572	ppm	1M12W7D	22H	23.03
5	3	825.5	847.5	0.2163	0.0557	ppm	2M76G7D	22H	23.35
5	3	825.5	847.5	0.1986	0.0564	ppm	2M76W7D	22H	22.98
5	5	826.5	846.5	0.2178	0.0559	ppm	4M55G7D	22H	23.38
5	5	826.5	846.5	0.1963	0.0580	ppm	4M58W7D	22H	22.93
5	10	829	844	0.2138	0.0462	ppm	9M10G7D	22H	23.30
5	10	829	844	0.2223	0.0562	ppm	9M09W7D	22H	23.47

## 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	0.1127	0.0524	ppm	1M12G7D	22H	20.52
5	1.4	824.7	848.3	0.1040	0.0572	ppm	1M12W7D	22H	20.17
5	3	825.5	847.5	0.1119	0.0557	ppm	2M76G7D	22H	20.49
5	3	825.5	847.5	0.1028	0.0564	ppm	2M76W7D	22H	20.12
5	5	826.5	846.5	0.1127	0.0559	ppm	4M55G7D	22H	20.52
5	5	826.5	846.5	0.1016	0.0580	ppm	4M58W7D	22H	20.07
5	10	829	844	0.1107	0.0462	ppm	9M10G7D	22H	20.44
5	10	829	844	0.1151	0.0562	ppm	9M09W7D	22H	20.61