

# 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	22.11	-3.05	16.91	<=38.45	Pass		
			2	22.22	-3.05	17.02	<=38.45	Pass		
			5	22.10	-3.05	16.90	<=38.45	Pass		
		3	0	22.19	-3.05	16.99	<=38.45	Pass		
			2	22.19	-3.05	16.99	<=38.45	Pass		
			3	22.16	-3.05	16.96	<=38.45	Pass		
		6	0	21.19	-3.05	15.99	<=38.45	Pass		
		836.5	1	0	22.10	-3.05	16.90	<=38.45	Pass	
				2	22.10	-3.05	16.90	<=38.45	Pass	
	5			21.94	-3.05	16.74	<=38.45	Pass		
	3		0	22.00	-3.05	16.80	<=38.45	Pass		
			2	21.87	-3.05	16.67	<=38.45	Pass		
			3	21.75	-3.05	16.55	<=38.45	Pass		
	6		0	20.84	-3.05	15.64	<=38.45	Pass		
	848.3		1	0	21.86	-3.05	16.66	<=38.45	Pass	
				2	21.60	-3.05	16.40	<=38.45	Pass	
		5		21.49	-3.05	16.29	<=38.45	Pass		
		3	0	21.60	-3.05	16.40	<=38.45	Pass		
			2	21.63	-3.05	16.43	<=38.45	Pass		
			3	21.59	-3.05	16.39	<=38.45	Pass		
		6	0	20.66	-3.05	15.46	<=38.45	Pass		
		16QAM	824.7	1	0	21.17	-3.05	15.97	<=38.45	Pass
					2	21.23	-3.05	16.03	<=38.45	Pass
	5				21.18	-3.05	15.98	<=38.45	Pass	
3	0			21.29	-3.05	16.09	<=38.45	Pass		
	2			21.28	-3.05	16.08	<=38.45	Pass		
	3			21.26	-3.05	16.06	<=38.45	Pass		
6	0			20.09	-3.05	14.89	<=38.45	Pass		
836.5	1			0	20.82	-3.05	15.62	<=38.45	Pass	
				2	20.89	-3.05	15.69	<=38.45	Pass	
			5	20.84	-3.05	15.64	<=38.45	Pass		
	3		0	20.77	-3.05	15.57	<=38.45	Pass		
			2	20.75	-3.05	15.55	<=38.45	Pass		
			3	20.79	-3.05	15.59	<=38.45	Pass		
	6		0	19.76	-3.05	14.56	<=38.45	Pass		
	848.3		1	0	20.49	-3.05	15.29	<=38.45	Pass	
				2	20.65	-3.05	15.45	<=38.45	Pass	
5				20.54	-3.05	15.34	<=38.45	Pass		
3			0	20.85	-3.05	15.65	<=38.45	Pass		
			2	20.86	-3.05	15.66	<=38.45	Pass		
			3	20.79	-3.05	15.59	<=38.45	Pass		
6			0	19.63	-3.05	14.43	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B5\_3MHz\_ERP

### 1.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	825.5	1	0	22.27	-3.05	17.07	<=38.45	Pass		
			7	22.40	-3.05	17.20	<=38.45	Pass		
			14	22.26	-3.05	17.06	<=38.45	Pass		
		8	0	21.15	-3.05	15.95	<=38.45	Pass		
			4	20.92	-3.05	15.72	<=38.45	Pass		
			7	20.75	-3.05	15.55	<=38.45	Pass		
		15	0	20.76	-3.05	15.56	<=38.45	Pass		
		836.5	1	0	21.70	-3.05	16.50	<=38.45	Pass	
				7	21.86	-3.05	16.66	<=38.45	Pass	
	14			21.70	-3.05	16.50	<=38.45	Pass		
	8		0	20.76	-3.05	15.56	<=38.45	Pass		
			4	20.81	-3.05	15.61	<=38.45	Pass		
			7	20.77	-3.05	15.57	<=38.45	Pass		
	15		0	20.77	-3.05	15.57	<=38.45	Pass		
	847.5		1	0	21.68	-3.05	16.48	<=38.45	Pass	
				7	21.77	-3.05	16.57	<=38.45	Pass	
		14		21.63	-3.05	16.43	<=38.45	Pass		
		8	0	20.70	-3.05	15.50	<=38.45	Pass		
			4	20.77	-3.05	15.57	<=38.45	Pass		
			7	20.71	-3.05	15.51	<=38.45	Pass		
		15	0	20.71	-3.05	15.51	<=38.45	Pass		
		16QAM	825.5	1	0	20.78	-3.05	15.58	<=38.45	Pass
					7	20.92	-3.05	15.72	<=38.45	Pass
	14				20.77	-3.05	15.57	<=38.45	Pass	
8	0			19.78	-3.05	14.58	<=38.45	Pass		
	4			19.84	-3.05	14.64	<=38.45	Pass		
	7			19.79	-3.05	14.59	<=38.45	Pass		
15	0			19.75	-3.05	14.55	<=38.45	Pass		
836.5	1			0	20.85	-3.05	15.65	<=38.45	Pass	
				7	21.05	-3.05	15.85	<=38.45	Pass	
			14	20.94	-3.05	15.74	<=38.45	Pass		
	8		0	19.68	-3.05	14.48	<=38.45	Pass		
			4	19.76	-3.05	14.56	<=38.45	Pass		
			7	19.71	-3.05	14.51	<=38.45	Pass		
	15		0	19.69	-3.05	14.49	<=38.45	Pass		
	847.5		1	0	21.25	-3.05	16.05	<=38.45	Pass	
				7	21.37	-3.05	16.17	<=38.45	Pass	
14				21.22	-3.05	16.02	<=38.45	Pass		
8			0	19.82	-3.05	14.62	<=38.45	Pass		
			4	19.90	-3.05	14.70	<=38.45	Pass		
			7	19.84	-3.05	14.64	<=38.45	Pass		
15			0	19.77	-3.05	14.57	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.3 B5\_5MHz\_ERP

#### 1.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	826.5	1	0	22.03	-3.05	16.83	<=38.45	Pass	
			13	22.13	-3.05	16.93	<=38.45	Pass	
			24	21.60	-3.05	16.40	<=38.45	Pass	
		12	0	20.62	-3.05	15.42	<=38.45	Pass	
			6	20.66	-3.05	15.46	<=38.45	Pass	
			13	20.58	-3.05	15.38	<=38.45	Pass	
		25	0	20.64	-3.05	15.44	<=38.45	Pass	
		836.5	1	0	21.49	-3.05	16.29	<=38.45	Pass
				13	21.63	-3.05	16.43	<=38.45	Pass
	24			21.49	-3.05	16.29	<=38.45	Pass	
	12		0	20.63	-3.05	15.43	<=38.45	Pass	
			6	20.64	-3.05	15.44	<=38.45	Pass	
			13	20.60	-3.05	15.40	<=38.45	Pass	
	25		0	20.64	-3.05	15.44	<=38.45	Pass	
	846.5		1	0	21.54	-3.05	16.34	<=38.45	Pass
				13	21.61	-3.05	16.41	<=38.45	Pass
		24		21.51	-3.05	16.31	<=38.45	Pass	
		12	0	20.64	-3.05	15.44	<=38.45	Pass	
			6	20.67	-3.05	15.47	<=38.45	Pass	
			13	20.59	-3.05	15.39	<=38.45	Pass	
	25	0	20.61	-3.05	15.41	<=38.45	Pass		
	16QAM	826.5	1	0	20.69	-3.05	15.49	<=38.45	Pass
				13	20.78	-3.05	15.58	<=38.45	Pass
				24	20.74	-3.05	15.54	<=38.45	Pass
12			0	19.64	-3.05	14.44	<=38.45	Pass	
			6	19.68	-3.05	14.48	<=38.45	Pass	
			13	19.58	-3.05	14.38	<=38.45	Pass	
25			0	19.67	-3.05	14.47	<=38.45	Pass	
836.5			1	0	20.77	-3.05	15.57	<=38.45	Pass
				13	20.94	-3.05	15.74	<=38.45	Pass
		24		20.82	-3.05	15.62	<=38.45	Pass	
		12	0	19.63	-3.05	14.43	<=38.45	Pass	
			6	19.69	-3.05	14.49	<=38.45	Pass	
			13	19.66	-3.05	14.46	<=38.45	Pass	
		25	0	19.59	-3.05	14.39	<=38.45	Pass	
		846.5	1	0	20.40	-3.05	15.20	<=38.45	Pass
				13	20.53	-3.05	15.33	<=38.45	Pass
24				20.39	-3.05	15.19	<=38.45	Pass	
12			0	19.59	-3.05	14.39	<=38.45	Pass	
			6	19.60	-3.05	14.40	<=38.45	Pass	
			13	19.58	-3.05	14.38	<=38.45	Pass	
25		0	19.60	-3.05	14.40	<=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	22.06	-3.05	16.86	<=38.45	Pass
			25	22.01	-3.05	16.81	<=38.45	Pass

		25	49	21.56	-3.05	16.36	<=38.45	Pass		
			0	20.74	-3.05	15.54	<=38.45	Pass		
			13	20.75	-3.05	15.55	<=38.45	Pass		
			25	20.68	-3.05	15.48	<=38.45	Pass		
			50	20.71	-3.05	15.51	<=38.45	Pass		
	836.5	1	1	0	21.52	-3.05	16.32	<=38.45	Pass	
				25	21.79	-3.05	16.59	<=38.45	Pass	
				49	21.60	-3.05	16.40	<=38.45	Pass	
		25	1	0	20.59	-3.05	15.39	<=38.45	Pass	
				13	20.74	-3.05	15.54	<=38.45	Pass	
				25	20.71	-3.05	15.51	<=38.45	Pass	
		50	20.68	-3.05	15.48	<=38.45	Pass			
		844	1	1	0	21.56	-3.05	16.36	<=38.45	Pass
					25	21.75	-3.05	16.55	<=38.45	Pass
	49				21.53	-3.05	16.33	<=38.45	Pass	
	25		1	0	20.79	-3.05	15.59	<=38.45	Pass	
				13	20.71	-3.05	15.51	<=38.45	Pass	
				25	20.62	-3.05	15.42	<=38.45	Pass	
	50		20.75	-3.05	15.55	<=38.45	Pass			
	16QAM		829	1	0	20.57	-3.05	15.37	<=38.45	Pass
					25	20.83	-3.05	15.63	<=38.45	Pass
		49			20.58	-3.05	15.38	<=38.45	Pass	
		25		1	0	19.79	-3.05	14.59	<=38.45	Pass
					13	19.71	-3.05	14.51	<=38.45	Pass
					25	19.75	-3.05	14.55	<=38.45	Pass
		50		19.71	-3.05	14.51	<=38.45	Pass		
		836.5		1	1	0	20.72	-3.05	15.52	<=38.45
25						20.98	-3.05	15.78	<=38.45	Pass
49			20.79			-3.05	15.59	<=38.45	Pass	
25			1	0	19.60	-3.05	14.40	<=38.45	Pass	
				13	19.71	-3.05	14.51	<=38.45	Pass	
				25	19.69	-3.05	14.49	<=38.45	Pass	
50			19.66	-3.05	14.46	<=38.45	Pass			
844			1	1	0	21.14	-3.05	15.94	<=38.45	Pass
					25	21.40	-3.05	16.20	<=38.45	Pass
		49			21.07	-3.05	15.87	<=38.45	Pass	
		25	1	0	19.87	-3.05	14.67	<=38.45	Pass	
				13	19.75	-3.05	14.55	<=38.45	Pass	
				25	19.66	-3.05	14.46	<=38.45	Pass	
		50	19.72	-3.05	14.52	<=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	-0.072	-0.0001	-2.5 to 2.5	Pass
							-0.0002	-2.5 to 2.5	Pass
							0.0028	-2.5 to 2.5	Pass

				-30	3.85	-2.003	-0.0024	-2.5 to 2.5	Pass			
				-20	3.85	-2.818	-0.0034	-2.5 to 2.5	Pass			
				-10	3.85	-3.805	-0.0046	-2.5 to 2.5	Pass			
				0	3.85	-6.938	-0.0084	-2.5 to 2.5	Pass			
				10	3.85	-2.146	-0.0026	-2.5 to 2.5	Pass			
				30	3.85	-3.648	-0.0044	-2.5 to 2.5	Pass			
				40	3.85	-5.193	-0.0063	-2.5 to 2.5	Pass			
	50	3.85	-10.042	-0.0122	-2.5 to 2.5	Pass						
	836.5	6	0	20	3.27	-6.738	-0.0081	-2.5 to 2.5	Pass			
					3.85	-9.055	-0.0108	-2.5 to 2.5	Pass			
					4.43	-10.886	-0.0130	-2.5 to 2.5	Pass			
				-30	3.85	-3.047	-0.0036	-2.5 to 2.5	Pass			
				-20	3.85	-6.838	-0.0082	-2.5 to 2.5	Pass			
				-10	3.85	-1.516	-0.0018	-2.5 to 2.5	Pass			
				0	3.85	-4.449	-0.0053	-2.5 to 2.5	Pass			
				10	3.85	-5.078	-0.0061	-2.5 to 2.5	Pass			
				30	3.85	-11.001	-0.0132	-2.5 to 2.5	Pass			
				40	3.85	-5.407	-0.0065	-2.5 to 2.5	Pass			
				50	3.85	-4.520	-0.0054	-2.5 to 2.5	Pass			
				848.3	6	0	20	3.27	0.615	0.0007	-2.5 to 2.5	Pass
								3.85	-0.629	-0.0007	-2.5 to 2.5	Pass
								4.43	-6.766	-0.0080	-2.5 to 2.5	Pass
	-30	3.85	-9.170				-0.0108	-2.5 to 2.5	Pass			
	-20	3.85	-9.928				-0.0117	-2.5 to 2.5	Pass			
	-10	3.85	-5.322				-0.0063	-2.5 to 2.5	Pass			
	0	3.85	-7.596				-0.0090	-2.5 to 2.5	Pass			
	10	3.85	-6.194				-0.0073	-2.5 to 2.5	Pass			
30	3.85	-8.283	-0.0098				-2.5 to 2.5	Pass				
40	3.85	0.973	0.0011				-2.5 to 2.5	Pass				
50	3.85	-6.094	-0.0072				-2.5 to 2.5	Pass				
16QAM	824.7	6	0	20	3.27	-3.076	-0.0037	-2.5 to 2.5	Pass			
					3.85	-4.907	-0.0060	-2.5 to 2.5	Pass			
					4.43	-3.548	-0.0043	-2.5 to 2.5	Pass			
				-30	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass			
				-20	3.85	-5.422	-0.0066	-2.5 to 2.5	Pass			
				-10	3.85	-6.366	-0.0077	-2.5 to 2.5	Pass			
				0	3.85	-3.891	-0.0047	-2.5 to 2.5	Pass			
				10	3.85	-4.606	-0.0056	-2.5 to 2.5	Pass			
				30	3.85	-6.752	-0.0082	-2.5 to 2.5	Pass			
				40	3.85	-7.882	-0.0096	-2.5 to 2.5	Pass			
				50	3.85	-8.311	-0.0101	-2.5 to 2.5	Pass			
				836.5	6	0	20	3.27	-10.700	-0.0128	-2.5 to 2.5	Pass
								3.85	-6.022	-0.0072	-2.5 to 2.5	Pass
								4.43	-3.662	-0.0044	-2.5 to 2.5	Pass
	-30	3.85	-6.938				-0.0083	-2.5 to 2.5	Pass			
	-20	3.85	-8.354				-0.0100	-2.5 to 2.5	Pass			
	-10	3.85	-5.021				-0.0060	-2.5 to 2.5	Pass			
	0	3.85	-10.171				-0.0122	-2.5 to 2.5	Pass			
	10	3.85	-2.604				-0.0031	-2.5 to 2.5	Pass			
	30	3.85	-1.545				-0.0018	-2.5 to 2.5	Pass			
	40	3.85	-10.686				-0.0128	-2.5 to 2.5	Pass			
	50	3.85	-9.127				-0.0109	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.27	-2.804	-0.0033	-2.5 to 2.5	Pass			
					3.85	-4.992	-0.0059	-2.5 to 2.5	Pass			
					4.43	-4.849	-0.0057	-2.5 to 2.5	Pass			
				-30	3.85	-8.769	-0.0103	-2.5 to 2.5	Pass			
	-20	3.85	-8.583	-0.0101	-2.5 to 2.5	Pass						

				-10	3.85	-7.181	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-4.921	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-3.319	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-5.150	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-6.537	-0.0077	-2.5 to 2.5	Pass
				50	3.85	-6.909	-0.0081	-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	-4.549	-0.0055	-2.5 to 2.5	Pass
					3.85	-4.249	-0.0051	-2.5 to 2.5	Pass
					4.43	-3.505	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-6.266	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-9.284	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-3.905	-0.0047	-2.5 to 2.5	Pass
				0	3.85	-6.094	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-1.588	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-4.263	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-7.396	-0.0090	-2.5 to 2.5	Pass
	50	3.85	-1.817	-0.0022	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-2.117	-0.0025	-2.5 to 2.5	Pass
					3.85	-4.148	-0.0050	-2.5 to 2.5	Pass
					4.43	-3.605	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-5.436	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-1.888	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-6.523	-0.0078	-2.5 to 2.5	Pass
				0	3.85	-0.744	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-5.078	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-4.191	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-6.309	-0.0075	-2.5 to 2.5	Pass
	50	3.85	-5.894	-0.0070	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	2.332	0.0028	-2.5 to 2.5	Pass
					3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
					4.43	-7.010	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-6.194	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-4.077	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-14.005	-0.0165	-2.5 to 2.5	Pass
				0	3.85	-2.861	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-5.422	-0.0064	-2.5 to 2.5	Pass
30				3.85	-6.752	-0.0080	-2.5 to 2.5	Pass	
40				3.85	-10.185	-0.0120	-2.5 to 2.5	Pass	
50	3.85	-10.686	-0.0126	-2.5 to 2.5	Pass				
16QAM	825.5	15	0	20	3.27	-2.961	-0.0036	-2.5 to 2.5	Pass
					3.85	-4.163	-0.0050	-2.5 to 2.5	Pass
					4.43	-2.561	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-5.364	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-2.317	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-1.345	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-4.764	-0.0058	-2.5 to 2.5	Pass
10	3.85	-3.405	-0.0041	-2.5 to 2.5	Pass				

	836.5	15	0	30	3.85	-4.134	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-7.653	-0.0093	-2.5 to 2.5	Pass
				50	3.85	-2.360	-0.0029	-2.5 to 2.5	Pass
				20	3.27	-7.267	-0.0087	-2.5 to 2.5	Pass
					3.85	-11.029	-0.0132	-2.5 to 2.5	Pass
					4.43	-2.646	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-0.186	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-8.898	-0.0106	-2.5 to 2.5	Pass
				-10	3.85	-1.073	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-5.479	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-9.484	-0.0113	-2.5 to 2.5	Pass
				30	3.85	-10.586	-0.0127	-2.5 to 2.5	Pass
	40	3.85	-4.077	-0.0049	-2.5 to 2.5	Pass			
	50	3.85	-8.354	-0.0100	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-10.543	-0.0124	-2.5 to 2.5	Pass
					3.85	-2.947	-0.0035	-2.5 to 2.5	Pass
					4.43	-8.440	-0.0100	-2.5 to 2.5	Pass
				-30	3.85	-3.219	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-10.972	-0.0129	-2.5 to 2.5	Pass
				-10	3.85	-0.372	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-5.164	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-4.978	-0.0059	-2.5 to 2.5	Pass
				30	3.85	-8.211	-0.0097	-2.5 to 2.5	Pass
				40	3.85	-10.843	-0.0128	-2.5 to 2.5	Pass
50				3.85	-9.770	-0.0115	-2.5 to 2.5	Pass	

## 2.3 B5\_5MHz

### 2.3.1 Test Result

Band: 5 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	826.5	25	0	20	3.27	-5.350	-0.0065	-2.5 to 2.5	Pass
					3.85	-7.424	-0.0090	-2.5 to 2.5	Pass
					4.43	-6.924	-0.0084	-2.5 to 2.5	Pass
				-30	3.85	-4.835	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-7.668	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	-7.839	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-4.621	-0.0056	-2.5 to 2.5	Pass
				10	3.85	-6.623	-0.0080	-2.5 to 2.5	Pass
				30	3.85	-6.766	-0.0082	-2.5 to 2.5	Pass
				40	3.85	-5.922	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-7.224	-0.0087	-2.5 to 2.5	Pass
				836.5	25	0	20	3.27	-10.214
	3.85	-5.751	-0.0069					-2.5 to 2.5	Pass
	4.43	-4.191	-0.0050					-2.5 to 2.5	Pass
	-30	3.85	-7.439				-0.0089	-2.5 to 2.5	Pass
	-20	3.85	-3.920				-0.0047	-2.5 to 2.5	Pass
	-10	3.85	-8.211				-0.0098	-2.5 to 2.5	Pass
	0	3.85	-1.416				-0.0017	-2.5 to 2.5	Pass
	10	3.85	-7.710				-0.0092	-2.5 to 2.5	Pass
	30	3.85	-1.616				-0.0019	-2.5 to 2.5	Pass
	40	3.85	-1.802				-0.0022	-2.5 to 2.5	Pass
	50	3.85	-8.140				-0.0097	-2.5 to 2.5	Pass

	846.5	25	0	20	3.27	-10.715	-0.0127	-2.5 to 2.5	Pass	
					3.85	-8.154	-0.0096	-2.5 to 2.5	Pass	
					4.43	-3.133	-0.0037	-2.5 to 2.5	Pass	
				-30	3.85	-4.792	-0.0057	-2.5 to 2.5	Pass	
					-20	3.85	-3.719	-0.0044	-2.5 to 2.5	Pass
						3.85	-2.289	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-6.595	-0.0078	-2.5 to 2.5	Pass	
					10	3.85	-3.819	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-4.077	-0.0048	-2.5 to 2.5	Pass	
40	3.85	-3.591	-0.0042	-2.5 to 2.5	Pass					
50	3.85	-8.440	-0.0100	-2.5 to 2.5	Pass					
16QAM	826.5	25	0	20	3.27	-3.533	-0.0043	-2.5 to 2.5	Pass	
					3.85	-7.625	-0.0092	-2.5 to 2.5	Pass	
					4.43	-5.765	-0.0070	-2.5 to 2.5	Pass	
				-30	3.85	-4.721	-0.0057	-2.5 to 2.5	Pass	
					-20	3.85	-7.825	-0.0095	-2.5 to 2.5	Pass
						3.85	-6.509	-0.0079	-2.5 to 2.5	Pass
				0	3.85	-8.898	-0.0108	-2.5 to 2.5	Pass	
					10	3.85	-4.220	-0.0051	-2.5 to 2.5	Pass
				30	3.85	-4.220	-0.0051	-2.5 to 2.5	Pass	
	40	3.85	-9.627	-0.0116	-2.5 to 2.5	Pass				
	50	3.85	-7.567	-0.0092	-2.5 to 2.5	Pass				
	836.5	25	0	20	3.27	-5.836	-0.0070	-2.5 to 2.5	Pass	
					3.85	-10.657	-0.0127	-2.5 to 2.5	Pass	
					4.43	-8.855	-0.0106	-2.5 to 2.5	Pass	
				-30	3.85	-1.774	-0.0021	-2.5 to 2.5	Pass	
					-20	3.85	-2.990	-0.0036	-2.5 to 2.5	Pass
						3.85	-3.533	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-5.522	-0.0066	-2.5 to 2.5	Pass	
					10	3.85	-5.751	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-6.523	-0.0078	-2.5 to 2.5	Pass	
	40	3.85	-2.432	-0.0029	-2.5 to 2.5	Pass				
	50	3.85	-0.744	-0.0009	-2.5 to 2.5	Pass				
	846.5	25	0	20	3.27	-7.367	-0.0087	-2.5 to 2.5	Pass	
					3.85	-10.729	-0.0127	-2.5 to 2.5	Pass	
4.43					-3.905	-0.0046	-2.5 to 2.5	Pass		
-30				3.85	-3.548	-0.0042	-2.5 to 2.5	Pass		
				-20	3.85	-3.948	-0.0047	-2.5 to 2.5	Pass	
					3.85	-6.294	-0.0074	-2.5 to 2.5	Pass	
0				3.85	-7.181	-0.0085	-2.5 to 2.5	Pass		
				10	3.85	-6.223	-0.0074	-2.5 to 2.5	Pass	
30				3.85	-9.227	-0.0109	-2.5 to 2.5	Pass		
40	3.85	-11.487	-0.0136	-2.5 to 2.5	Pass					
50	3.85	-6.523	-0.0077	-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	-5.264	-0.0063	-2.5 to 2.5	Pass
					3.85	-5.364	-0.0065	-2.5 to 2.5	Pass
					4.43	-6.008	-0.0072	-2.5 to 2.5	Pass



				-30	3.85	-7.353	-0.0089	-2.5 to 2.5	Pass	
				-20	3.85	-5.608	-0.0068	-2.5 to 2.5	Pass	
				-10	3.85	-8.783	-0.0106	-2.5 to 2.5	Pass	
				0	3.85	-4.849	-0.0058	-2.5 to 2.5	Pass	
				10	3.85	-7.095	-0.0086	-2.5 to 2.5	Pass	
				30	3.85	-7.868	-0.0095	-2.5 to 2.5	Pass	
				40	3.85	-6.151	-0.0074	-2.5 to 2.5	Pass	
	50	3.85	-5.550	-0.0067	-2.5 to 2.5	Pass				
	836.5	50	0	20	3.27	-6.480	-0.0077	-2.5 to 2.5	Pass	
					3.85	-6.523	-0.0078	-2.5 to 2.5	Pass	
					4.43	-4.034	-0.0048	-2.5 to 2.5	Pass	
				-30	3.85	-4.077	-0.0049	-2.5 to 2.5	Pass	
				-20	3.85	-4.406	-0.0053	-2.5 to 2.5	Pass	
				-10	3.85	-6.351	-0.0076	-2.5 to 2.5	Pass	
				0	3.85	-4.191	-0.0050	-2.5 to 2.5	Pass	
		10	3.85	-4.692	-0.0056	-2.5 to 2.5	Pass			
		30	3.85	-7.110	-0.0085	-2.5 to 2.5	Pass			
		40	3.85	-5.436	-0.0065	-2.5 to 2.5	Pass			
		50	3.85	-6.266	-0.0075	-2.5 to 2.5	Pass			
		844	50	0	20	3.27	-3.462	-0.0041	-2.5 to 2.5	Pass
						3.85	-10.600	-0.0126	-2.5 to 2.5	Pass
						4.43	-1.659	-0.0020	-2.5 to 2.5	Pass
	-30				3.85	-6.208	-0.0074	-2.5 to 2.5	Pass	
	-20				3.85	-2.875	-0.0034	-2.5 to 2.5	Pass	
	-10				3.85	-4.520	-0.0054	-2.5 to 2.5	Pass	
	0				3.85	-6.981	-0.0083	-2.5 to 2.5	Pass	
	10	3.85	-8.068	-0.0096	-2.5 to 2.5	Pass				
30	3.85	-4.234	-0.0050	-2.5 to 2.5	Pass					
40	3.85	-3.948	-0.0047	-2.5 to 2.5	Pass					
50	3.85	-6.037	-0.0072	-2.5 to 2.5	Pass					
16QAM	829	50	0	20	3.27	-9.356	-0.0113	-2.5 to 2.5	Pass	
					3.85	-6.223	-0.0075	-2.5 to 2.5	Pass	
					4.43	-8.512	-0.0103	-2.5 to 2.5	Pass	
				-30	3.85	-6.680	-0.0081	-2.5 to 2.5	Pass	
				-20	3.85	-7.553	-0.0091	-2.5 to 2.5	Pass	
				-10	3.85	-5.679	-0.0069	-2.5 to 2.5	Pass	
				0	3.85	-6.809	-0.0082	-2.5 to 2.5	Pass	
		10	3.85	-3.877	-0.0047	-2.5 to 2.5	Pass			
		30	3.85	-5.665	-0.0068	-2.5 to 2.5	Pass			
		40	3.85	-8.626	-0.0104	-2.5 to 2.5	Pass			
		50	3.85	-9.484	-0.0114	-2.5 to 2.5	Pass			
		836.5	50	0	20	3.27	-6.537	-0.0078	-2.5 to 2.5	Pass
						3.85	-5.994	-0.0072	-2.5 to 2.5	Pass
						4.43	-9.313	-0.0111	-2.5 to 2.5	Pass
	-30				3.85	-6.680	-0.0080	-2.5 to 2.5	Pass	
	-20				3.85	-5.364	-0.0064	-2.5 to 2.5	Pass	
	-10				3.85	-2.646	-0.0032	-2.5 to 2.5	Pass	
	0				3.85	-3.219	-0.0038	-2.5 to 2.5	Pass	
	10	3.85	-6.838	-0.0082	-2.5 to 2.5	Pass				
	30	3.85	-8.869	-0.0106	-2.5 to 2.5	Pass				
	40	3.85	-5.851	-0.0070	-2.5 to 2.5	Pass				
	50	3.85	-9.241	-0.0110	-2.5 to 2.5	Pass				
	844	50	0	20	3.27	-4.120	-0.0049	-2.5 to 2.5	Pass	
					3.85	-4.120	-0.0049	-2.5 to 2.5	Pass	
					4.43	-3.662	-0.0043	-2.5 to 2.5	Pass	
				-30	3.85	-3.920	-0.0046	-2.5 to 2.5	Pass	
				-20	3.85	-11.129	-0.0132	-2.5 to 2.5	Pass	

				-10	3.85	-10.014	-0.0119	-2.5 to 2.5	Pass
				0	3.85	-3.390	-0.0040	-2.5 to 2.5	Pass
				10	3.85	-6.723	-0.0080	-2.5 to 2.5	Pass
				30	3.85	-8.612	-0.0102	-2.5 to 2.5	Pass
				40	3.85	-4.835	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-4.935	-0.0058	-2.5 to 2.5	Pass

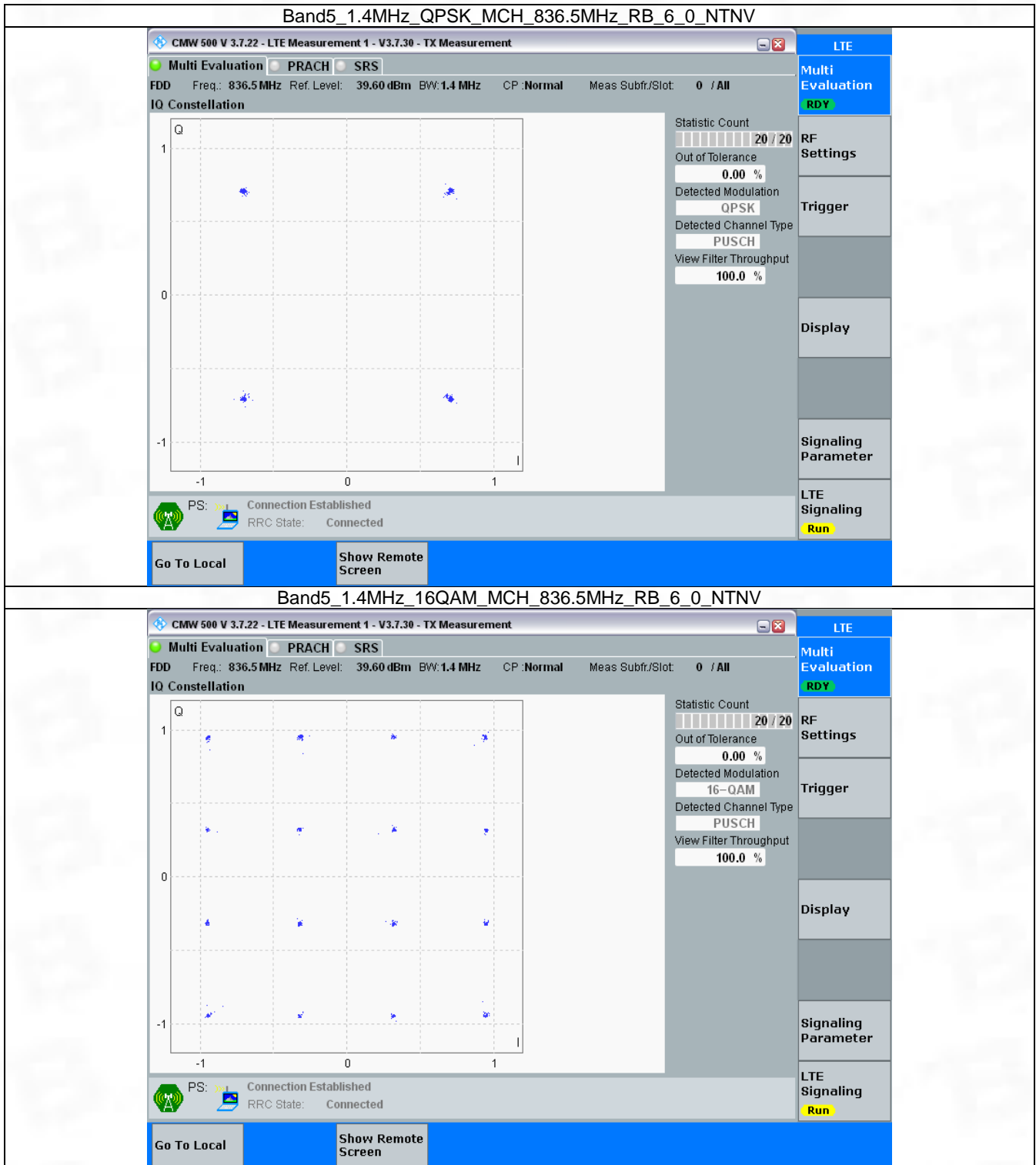
### 3. Modulation Characteristics

#### 3.1 B5\_1.4MHz

##### 3.1.1 Test Result

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

### 3.1.2 Test Graph

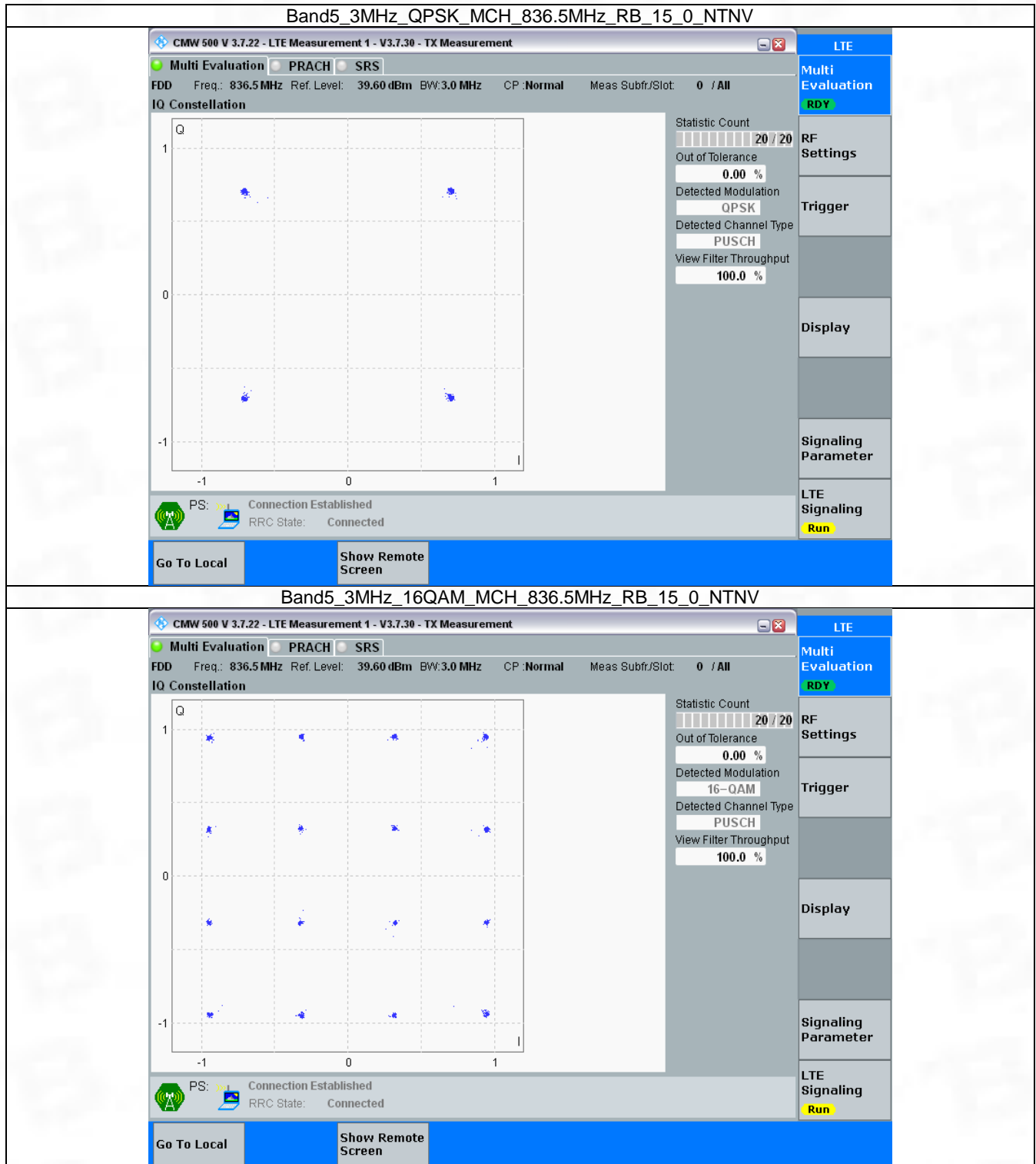


## 3.2 B5\_3MHz

### 3.2.1 Test Result

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

### 3.2.2 Test Graph

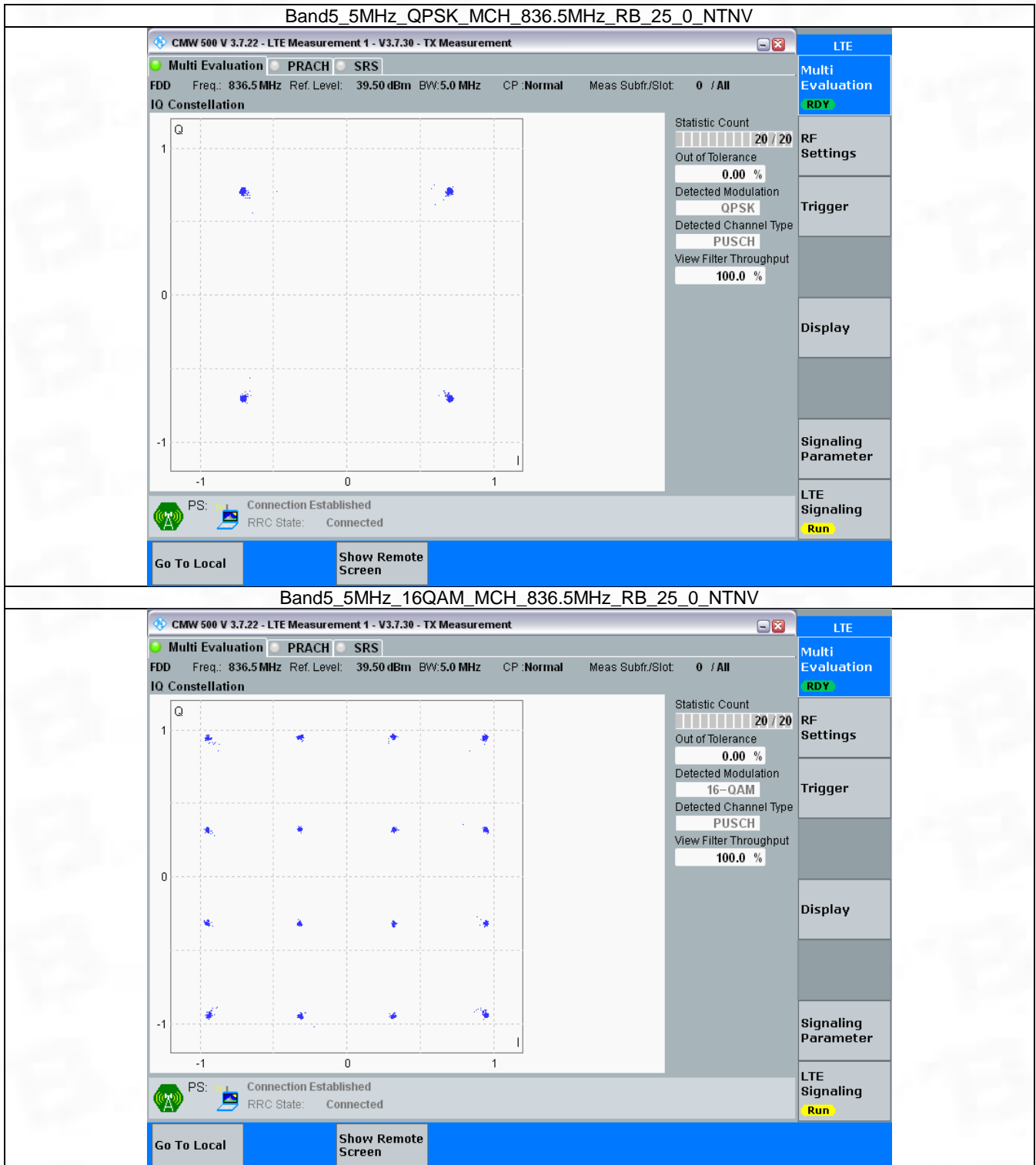


### 3.3 B5\_5MHz

#### 3.3.1 Test Result

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

### 3.3.2 Test Graph



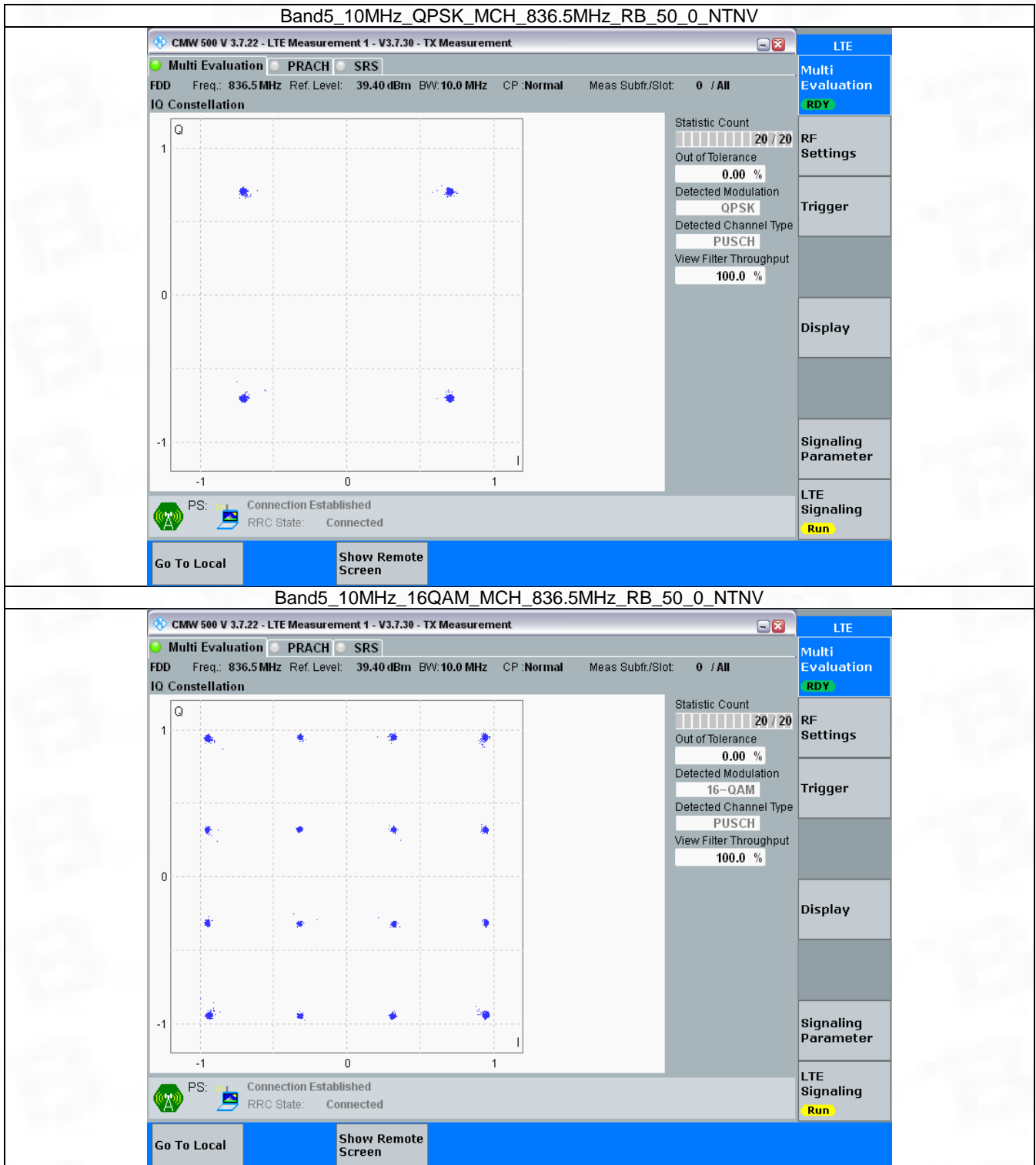
### 3.4 B5\_10MHz

#### 3.4.1 Test Result

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



### 3.4.2 Test Graph



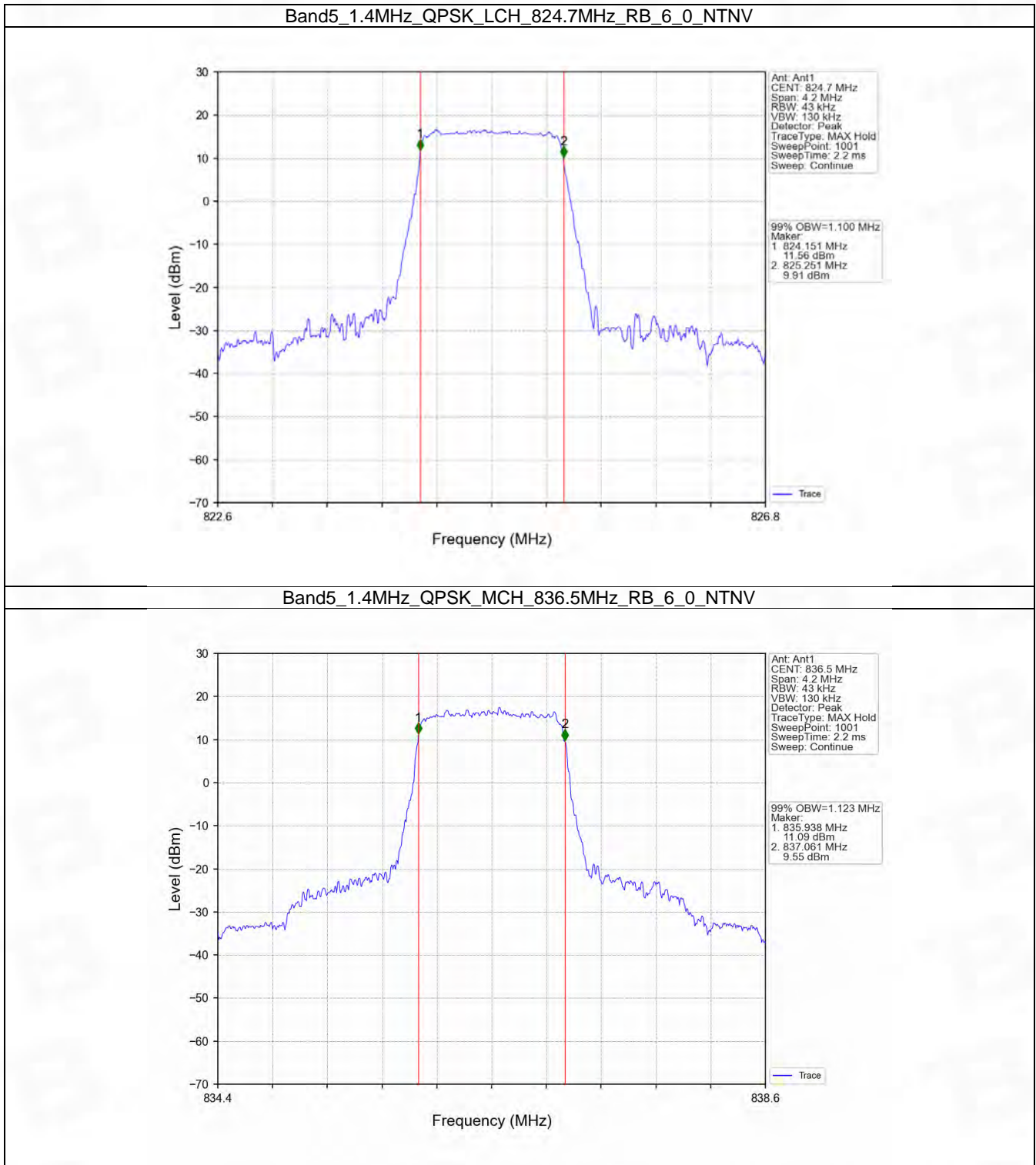
## 4. 99% & 26dB Bandwidth

### 4.1 Band5\_OBW

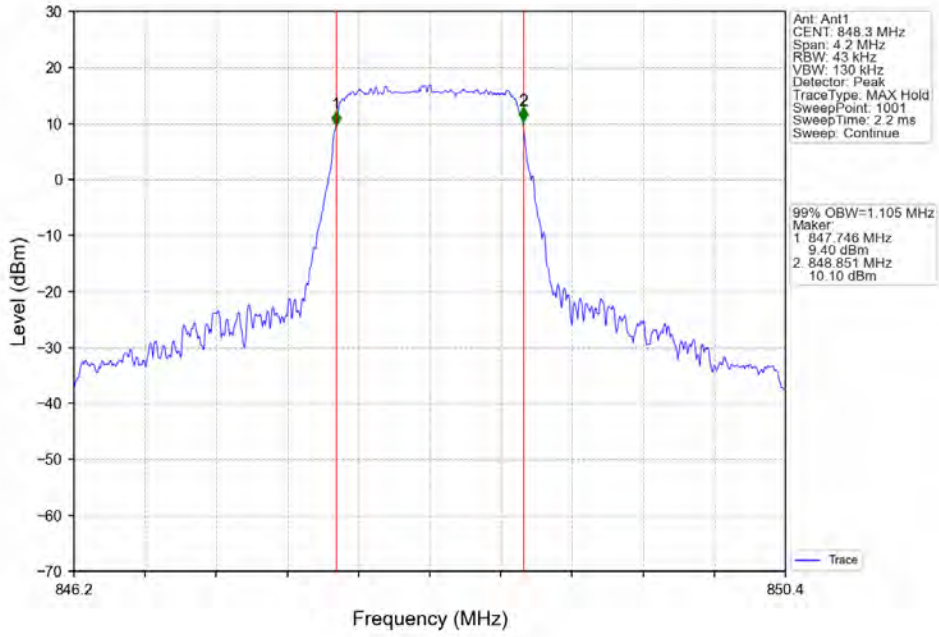
#### 4.1.1 Test Result

Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.100	/	Pass
		836.5	6	0	1.123	/	Pass
		848.3	6	0	1.105	/	Pass
	16QAM	824.7	6	0	1.112	/	Pass
		836.5	6	0	1.108	/	Pass
		848.3	6	0	1.101	/	Pass
3	QPSK	825.5	15	0	2.727	/	Pass
		836.5	15	0	2.730	/	Pass
		847.5	15	0	2.718	/	Pass
	16QAM	825.5	15	0	2.724	/	Pass
		836.5	15	0	2.728	/	Pass
		847.5	15	0	2.725	/	Pass
5	QPSK	826.5	25	0	4.560	/	Pass
		836.5	25	0	4.556	/	Pass
		846.5	25	0	4.582	/	Pass
	16QAM	826.5	25	0	4.558	/	Pass
		836.5	25	0	4.585	/	Pass
		846.5	25	0	4.554	/	Pass
10	QPSK	829	50	0	9.086	/	Pass
		836.5	50	0	9.074	/	Pass
		844	50	0	9.103	/	Pass
	16QAM	829	50	0	9.083	/	Pass
		836.5	50	0	9.070	/	Pass
		844	50	0	9.056	/	Pass

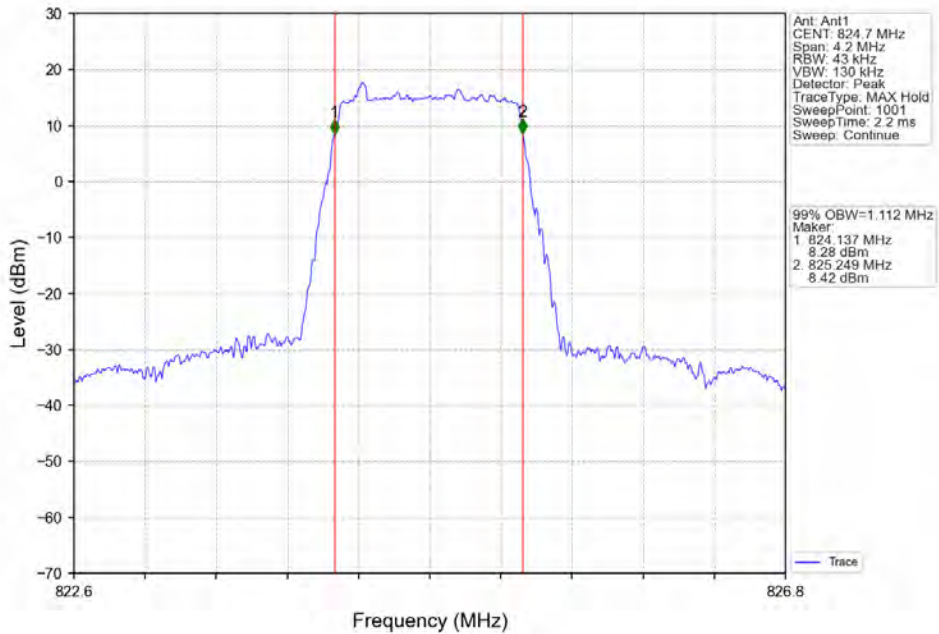
### 4.1.2 Test Graph



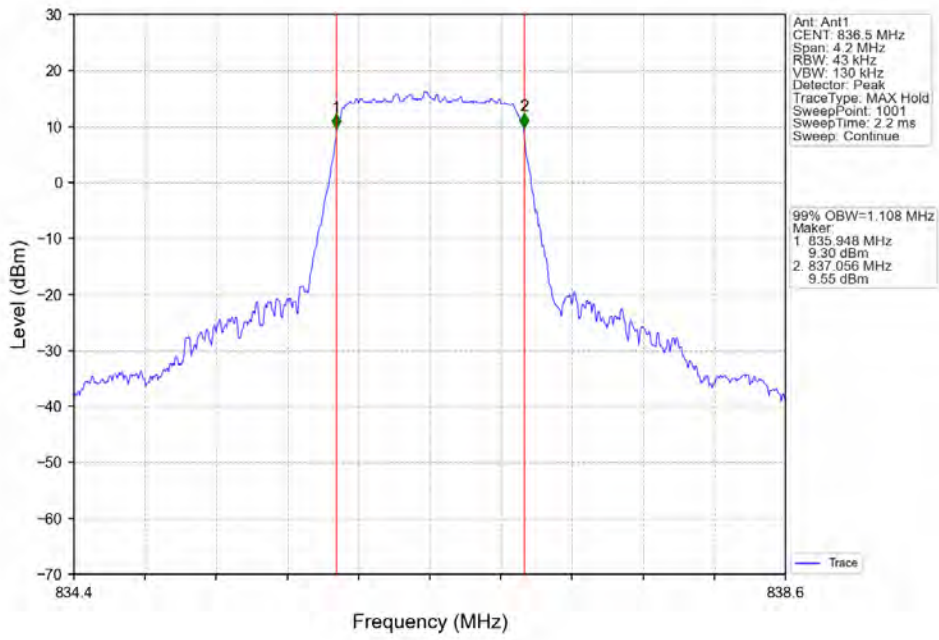
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



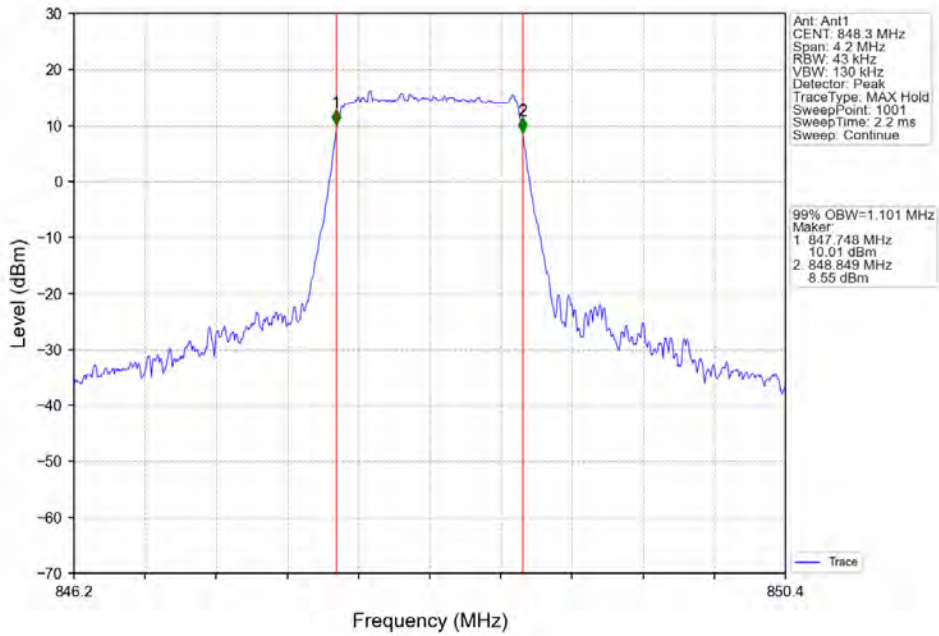
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



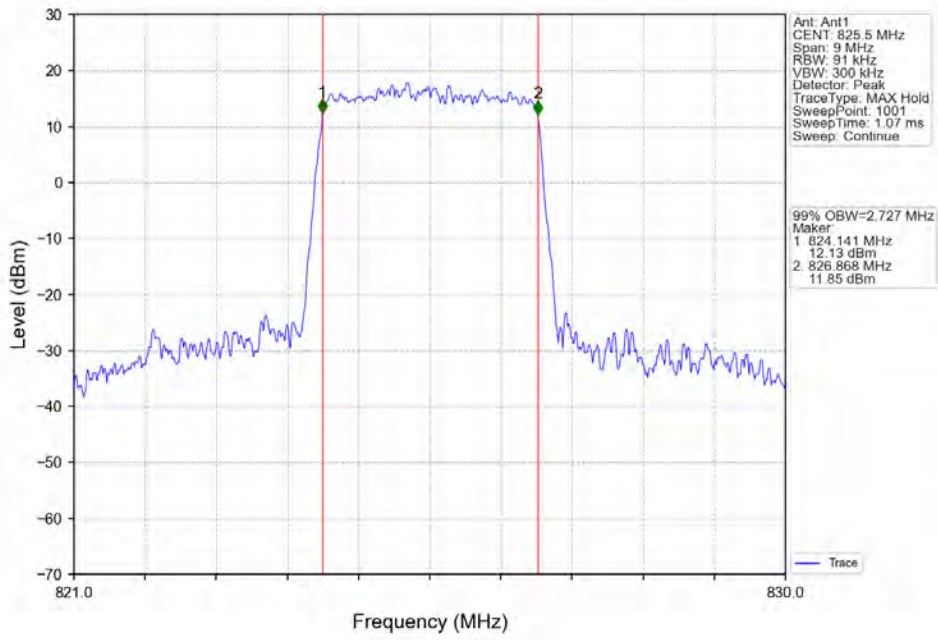
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



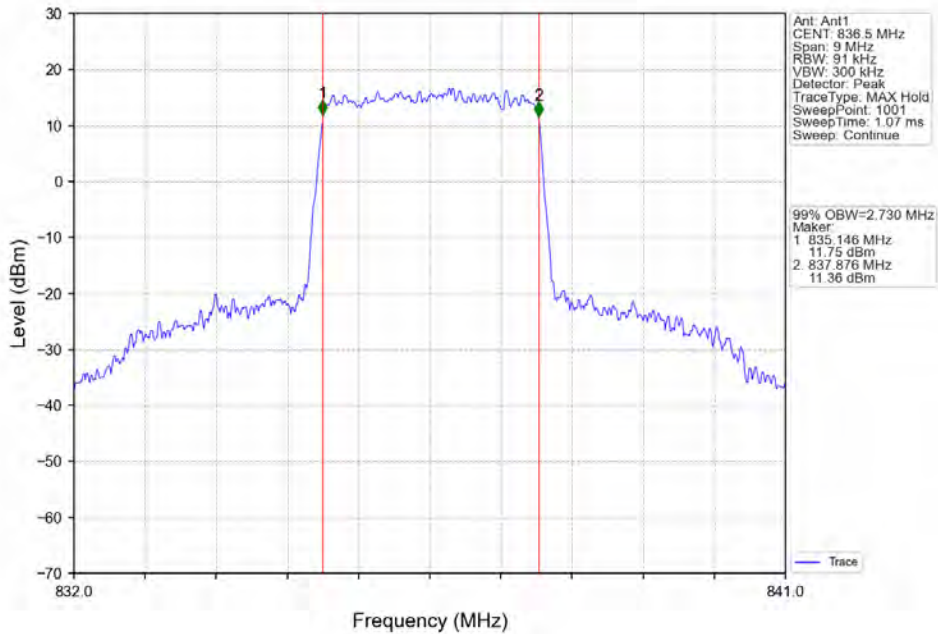
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



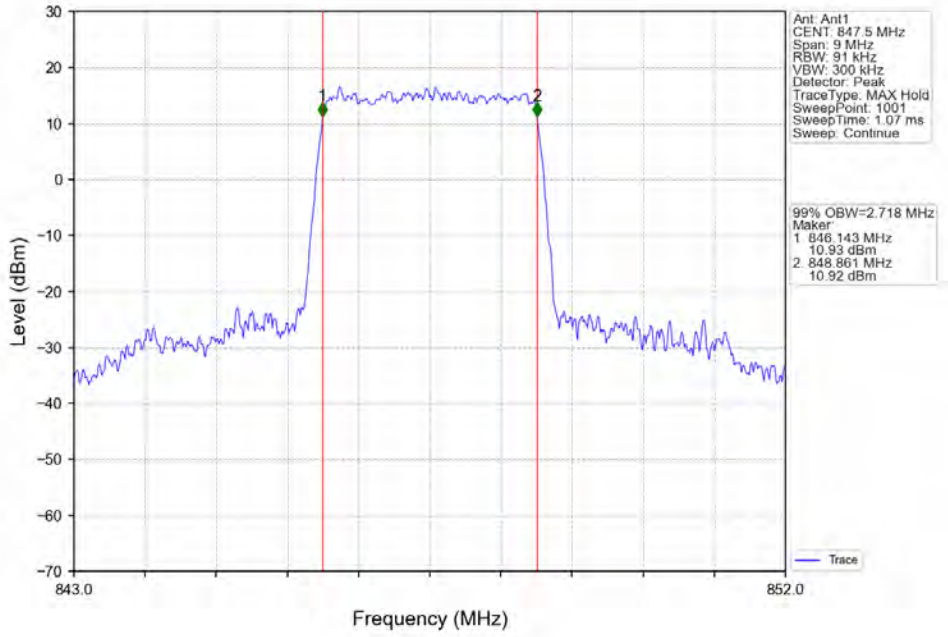
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



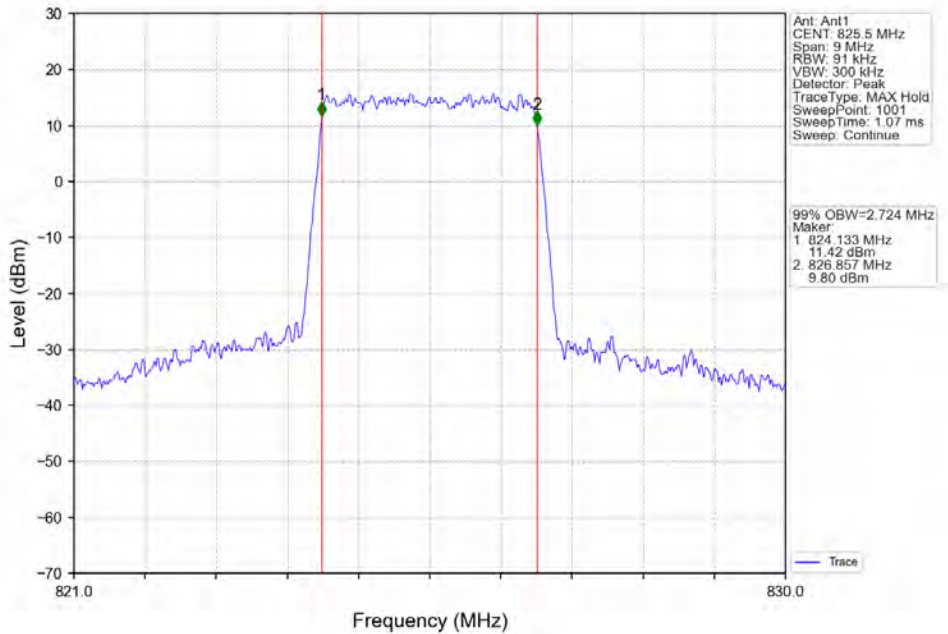
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



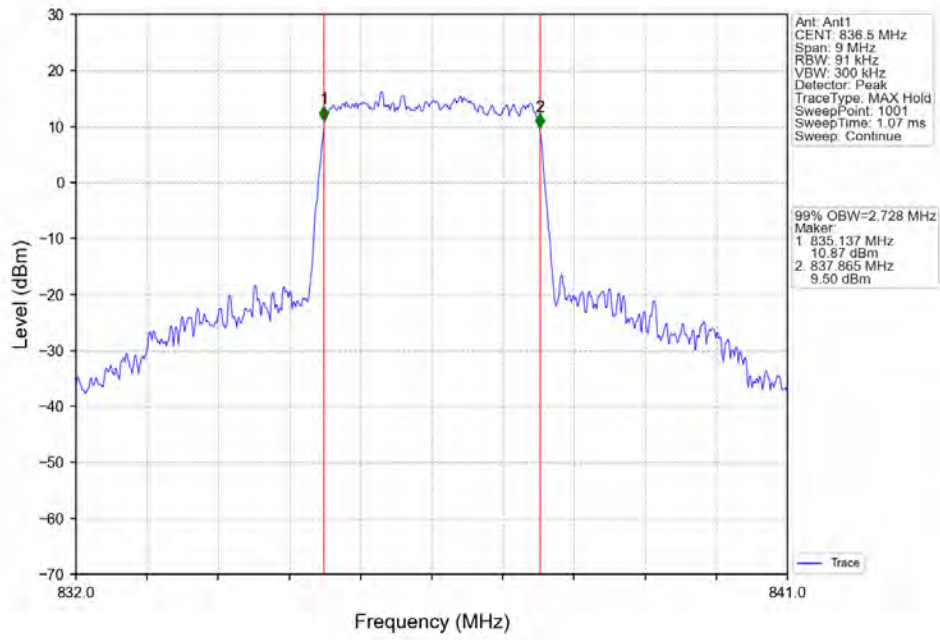
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



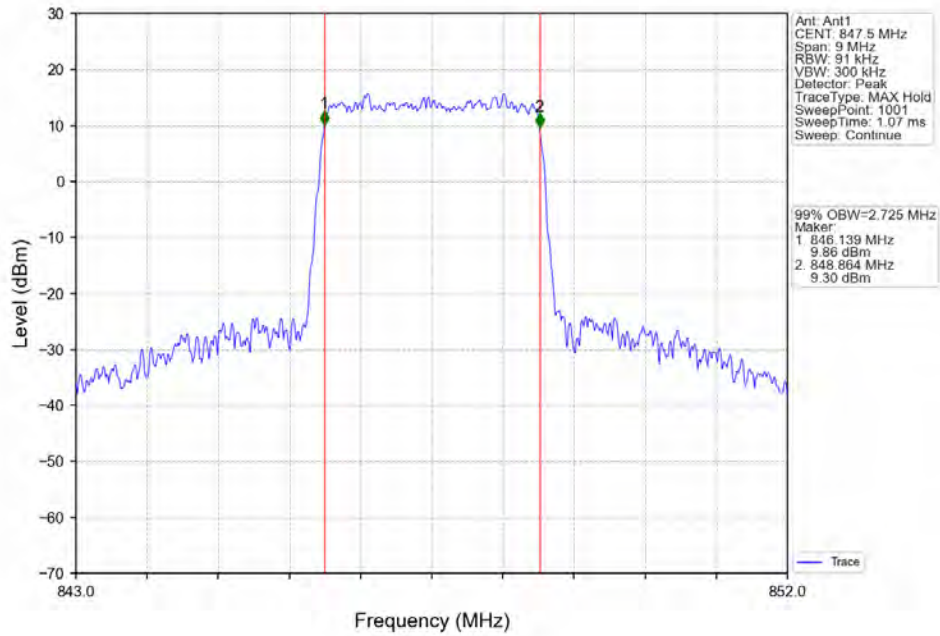
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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

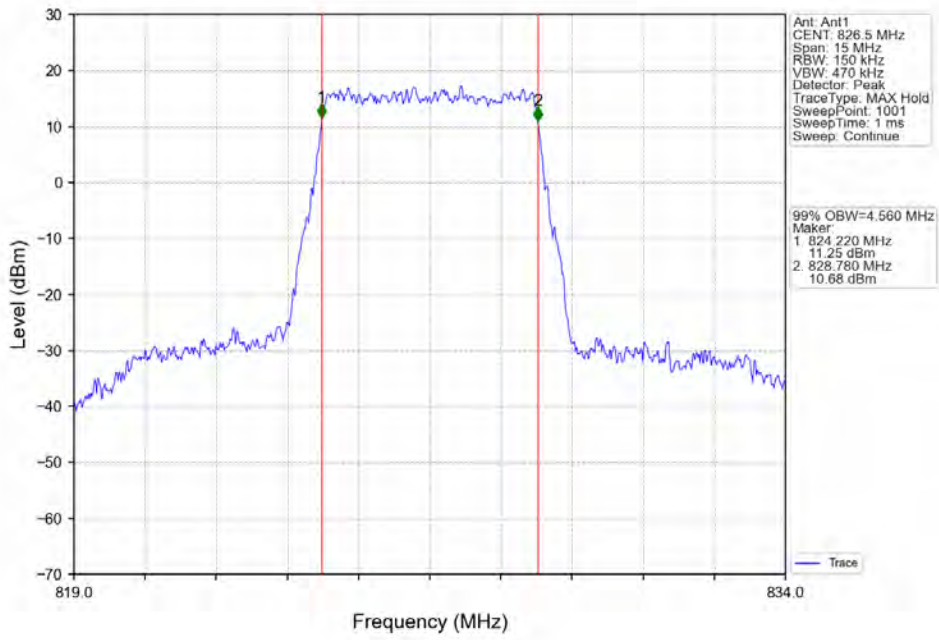


Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

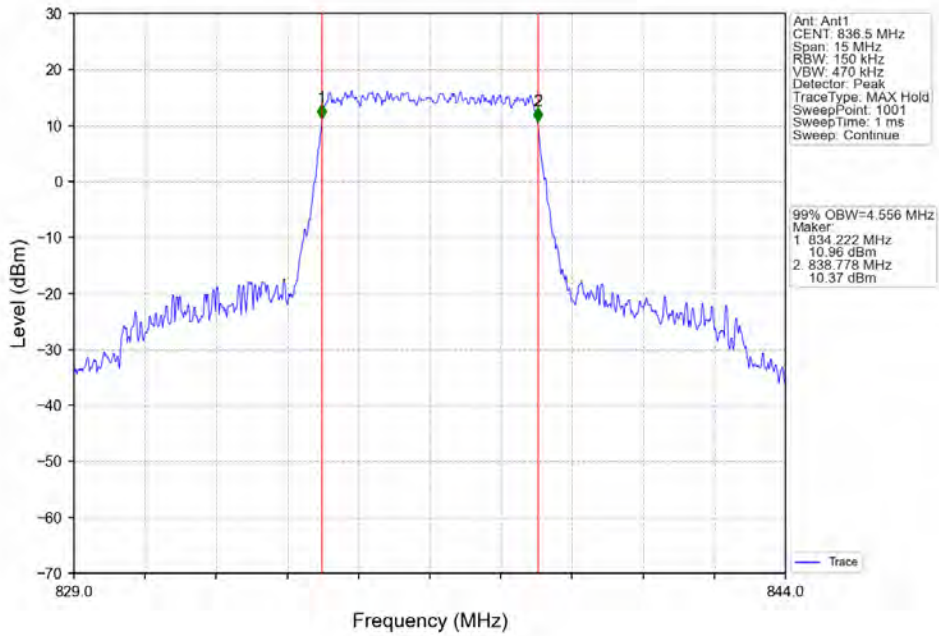




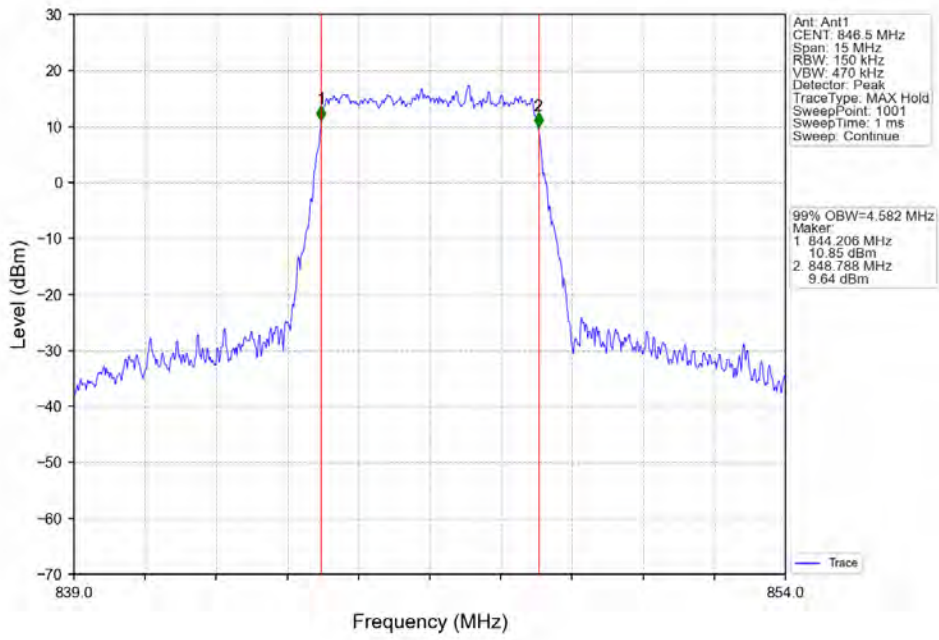
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



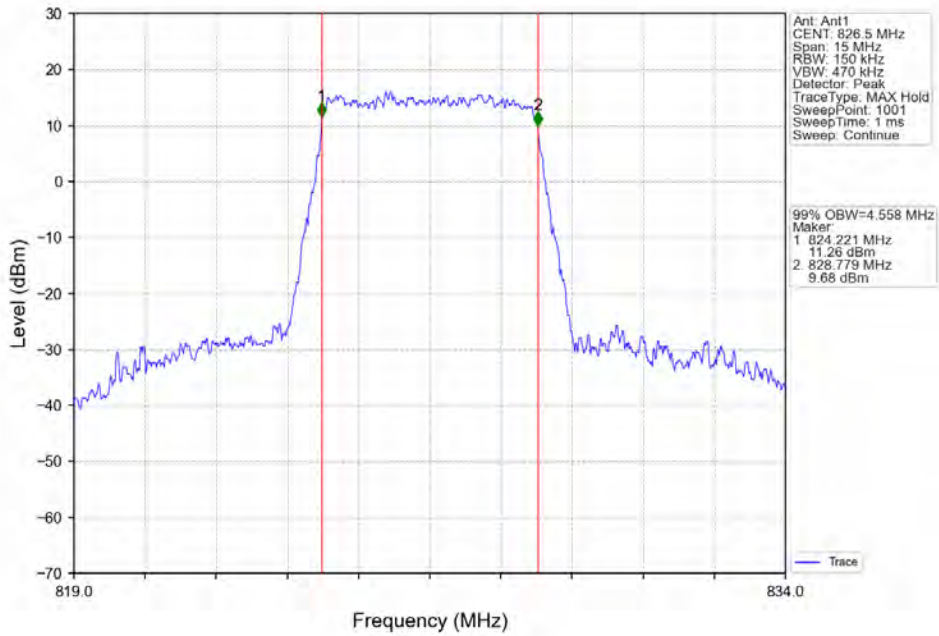
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



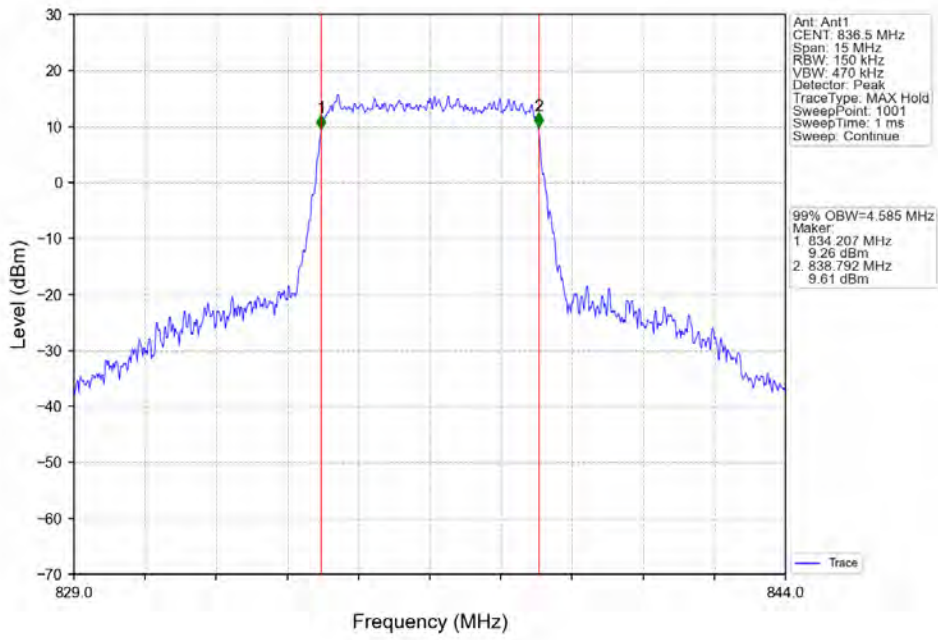
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



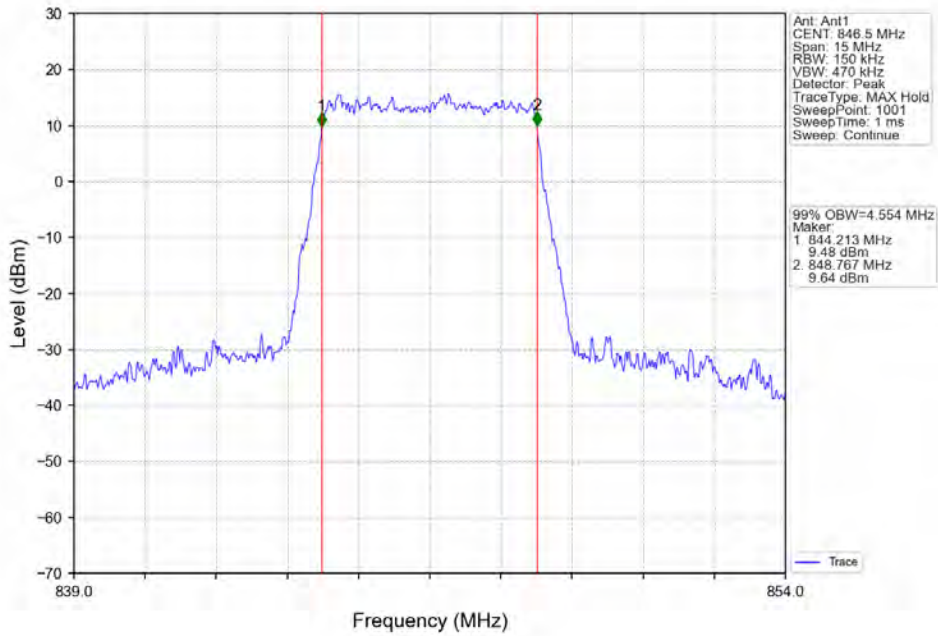
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



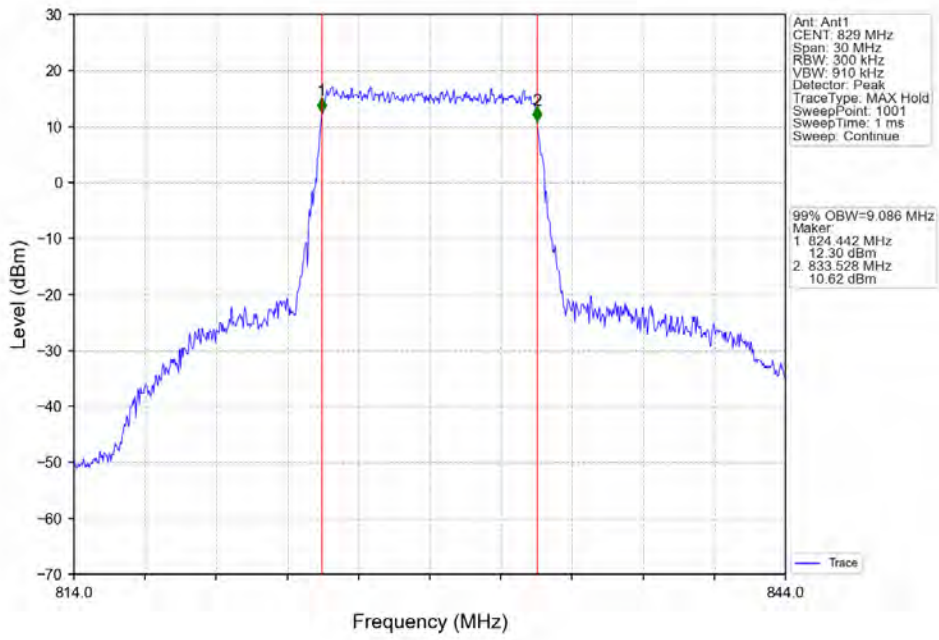
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



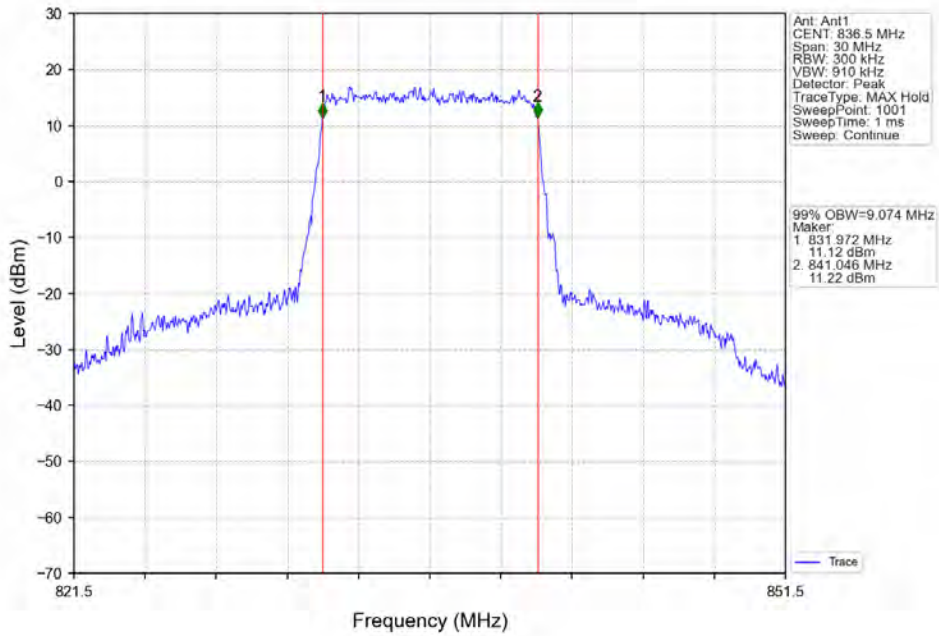
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



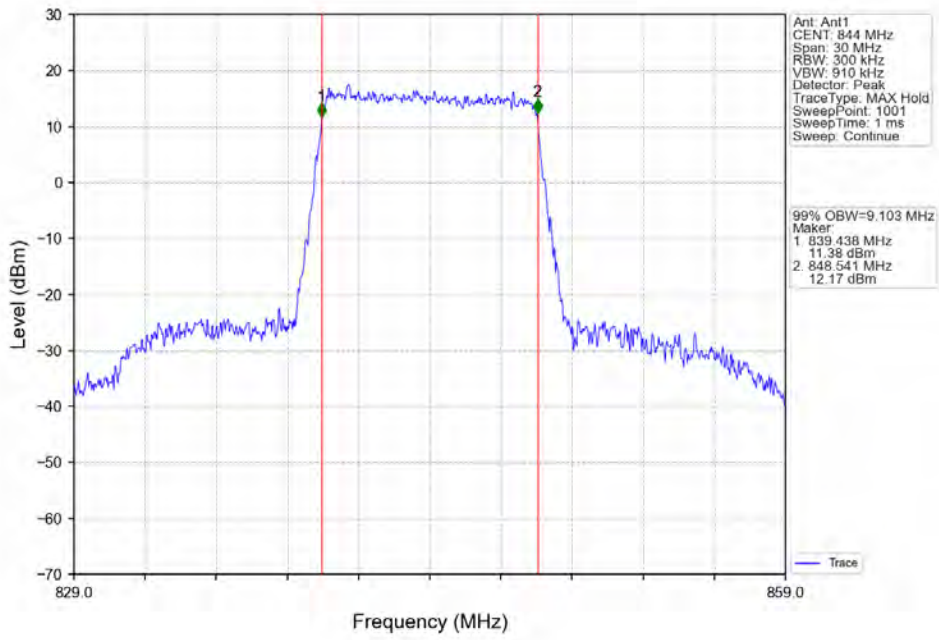
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



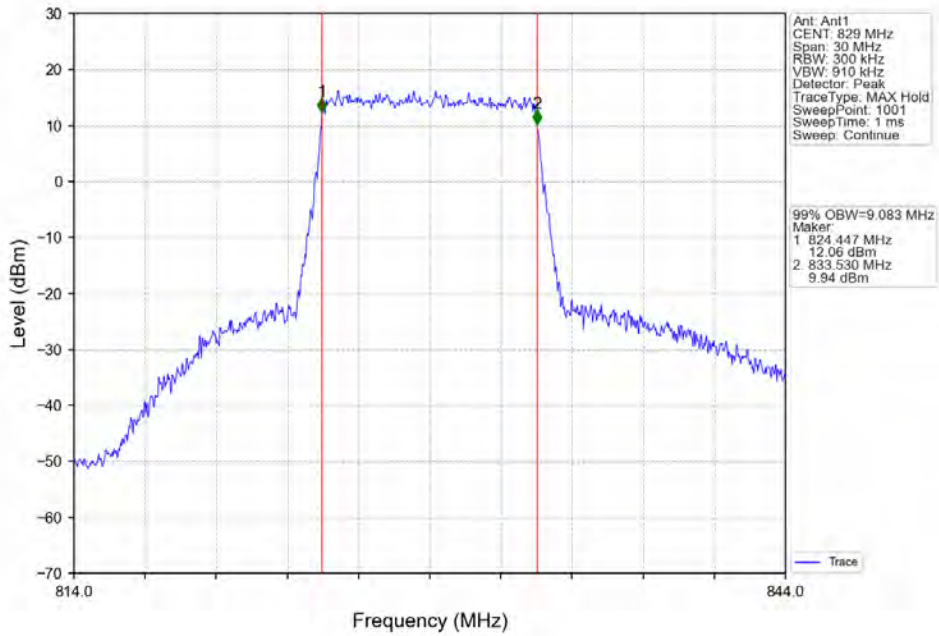
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



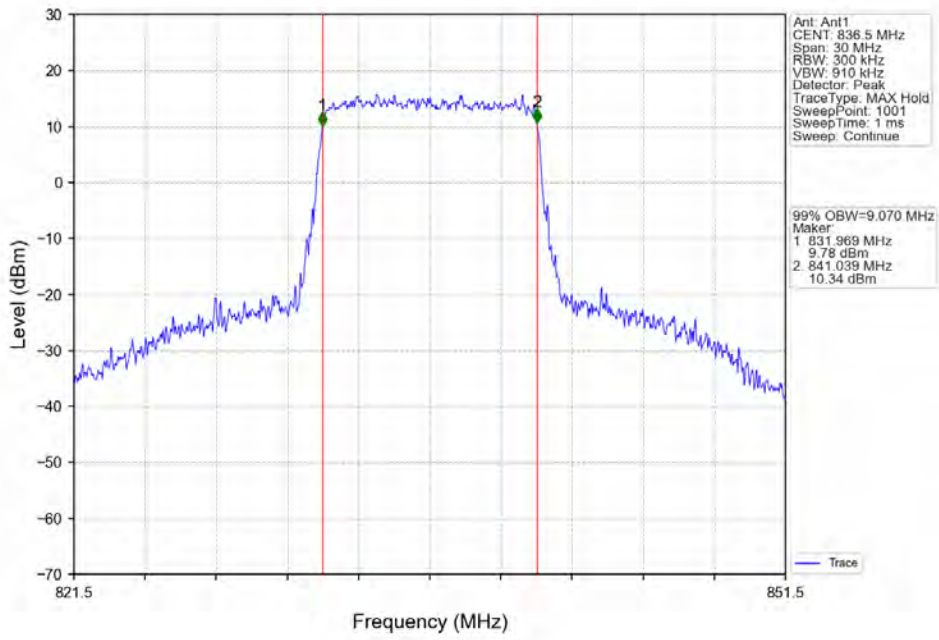
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



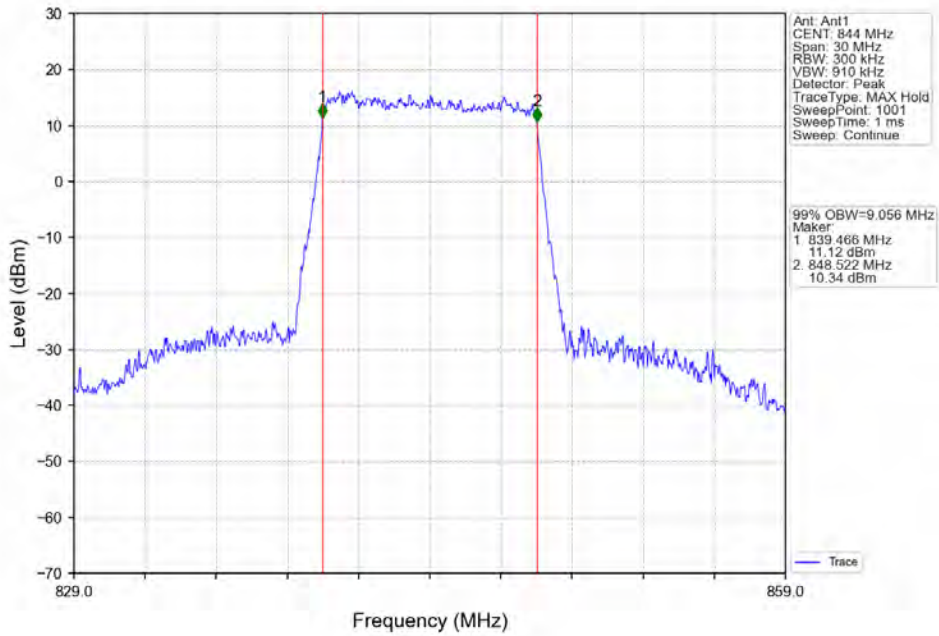
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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

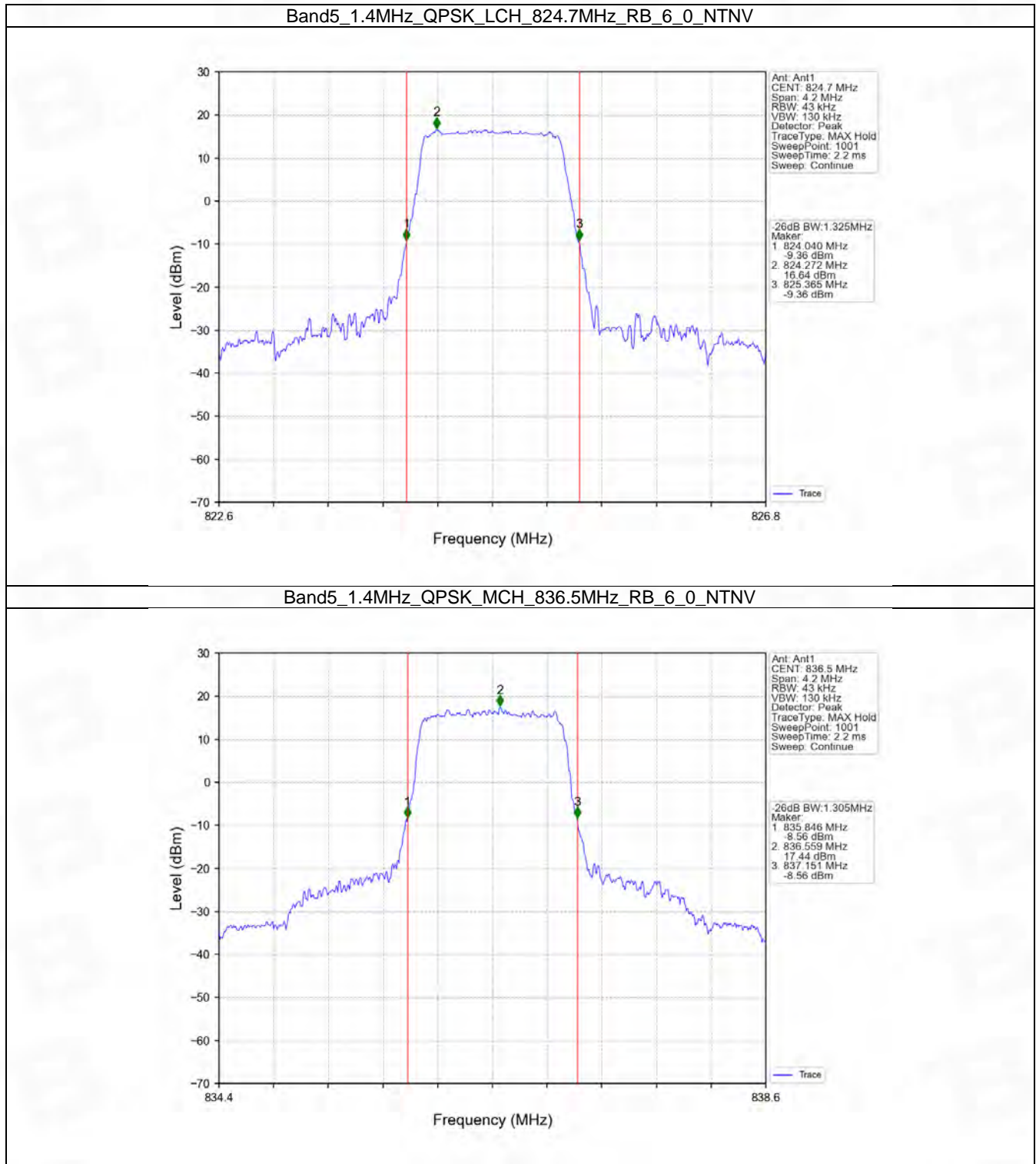


## 4.2 Band5\_XDB

### 4.2.1 Test Result

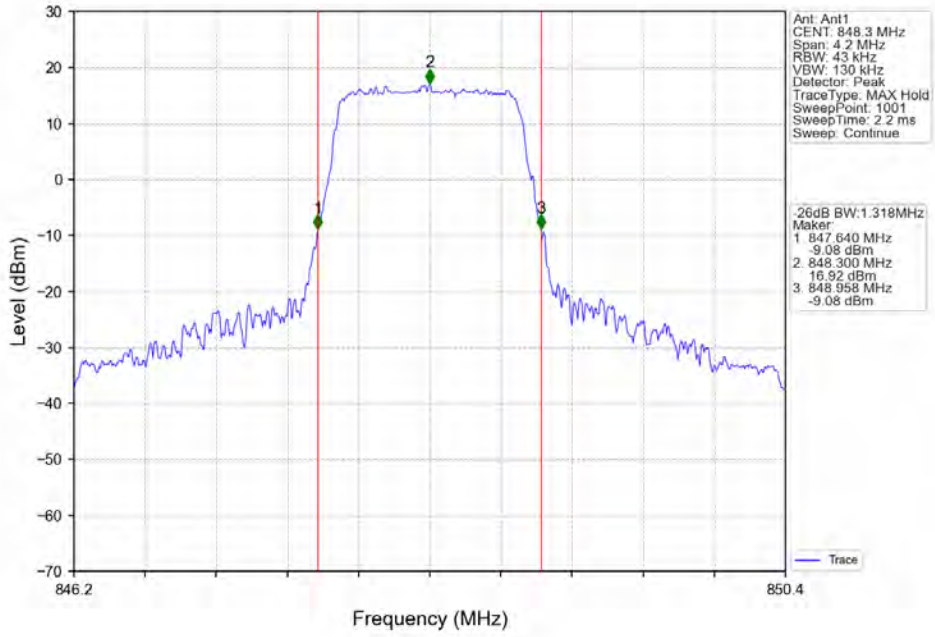
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.325	/	Pass
		836.5	6	0	1.305	/	Pass
		848.3	6	0	1.318	/	Pass
	16QAM	824.7	6	0	1.308	/	Pass
		836.5	6	0	1.321	/	Pass
		848.3	6	0	1.302	/	Pass
3	QPSK	825.5	15	0	2.998	/	Pass
		836.5	15	0	2.999	/	Pass
		847.5	15	0	3.001	/	Pass
	16QAM	825.5	15	0	3.015	/	Pass
		836.5	15	0	2.986	/	Pass
		847.5	15	0	2.973	/	Pass
5	QPSK	826.5	25	0	5.302	/	Pass
		836.5	25	0	5.287	/	Pass
		846.5	25	0	5.234	/	Pass
	16QAM	826.5	25	0	5.308	/	Pass
		836.5	25	0	5.233	/	Pass
		846.5	25	0	5.205	/	Pass
10	QPSK	829	50	0	10.211	/	Pass
		836.5	50	0	10.074	/	Pass
		844	50	0	10.224	/	Pass
	16QAM	829	50	0	10.286	/	Pass
		836.5	50	0	10.229	/	Pass
		844	50	0	10.123	/	Pass

## 4.2.2 Test Graph

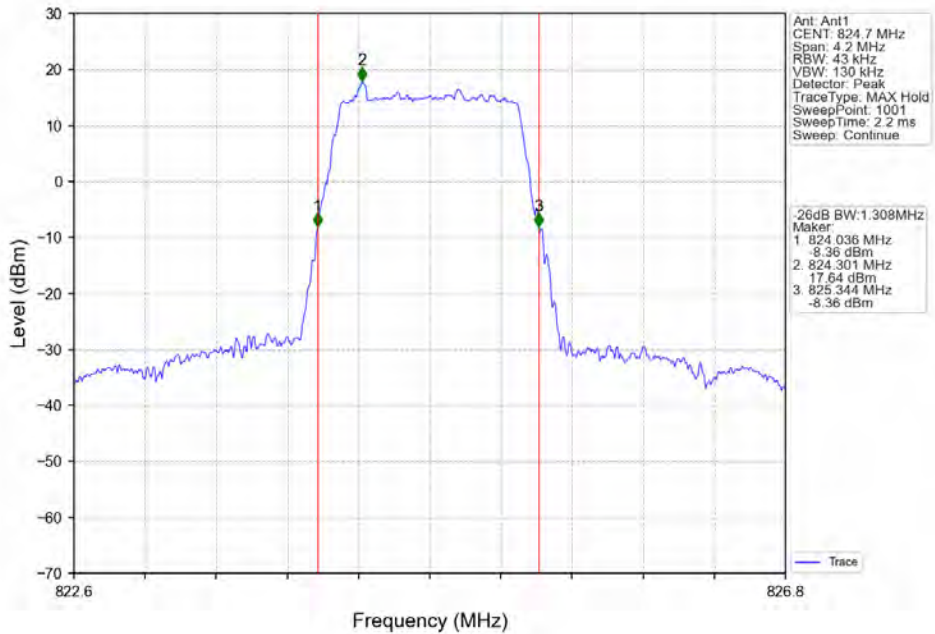




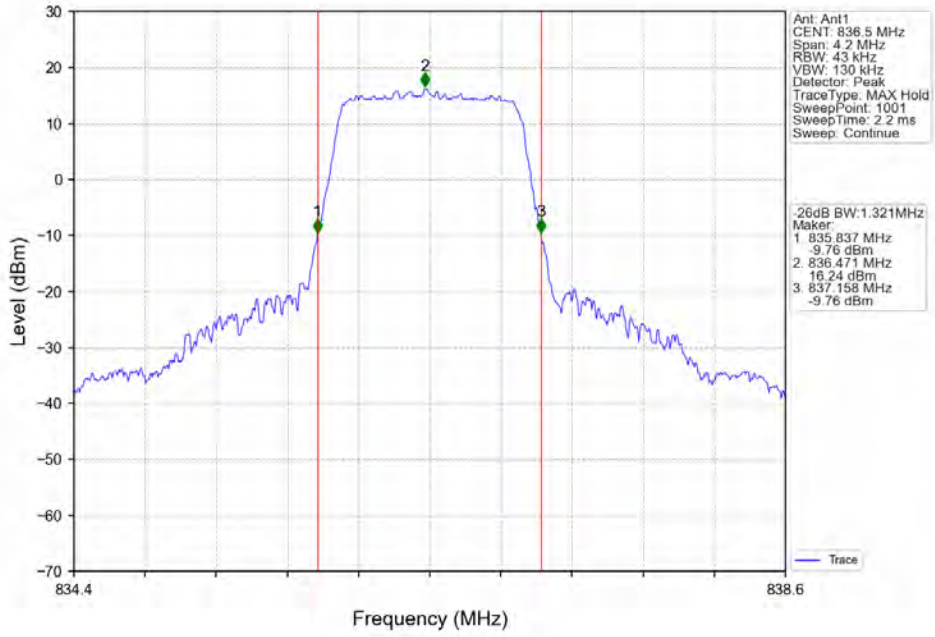
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



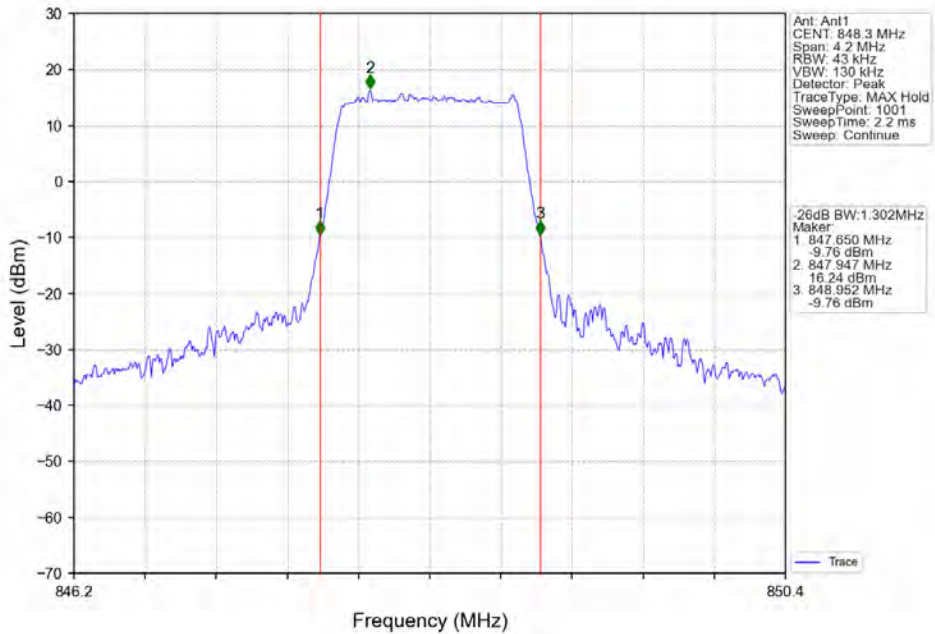
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



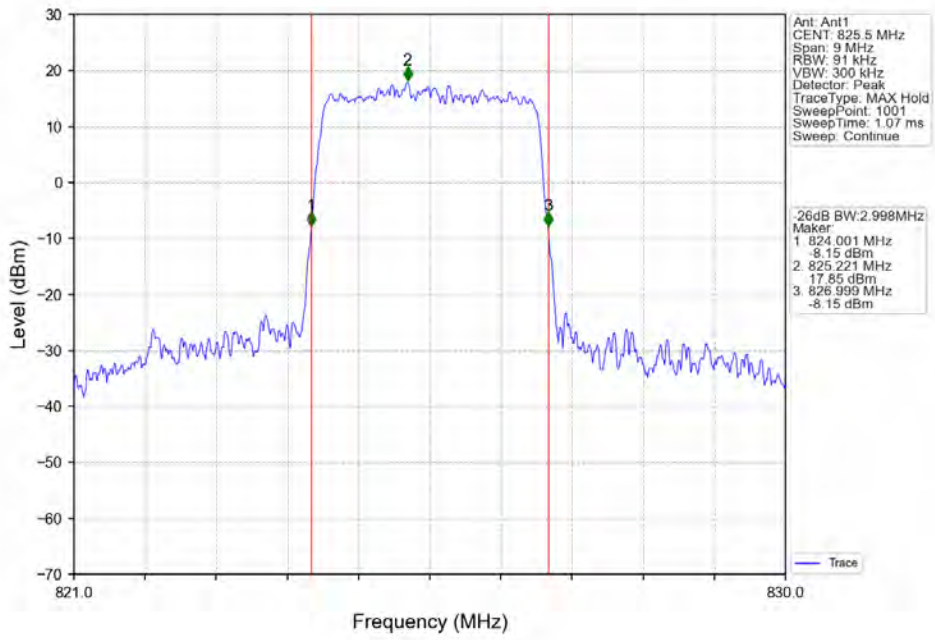
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



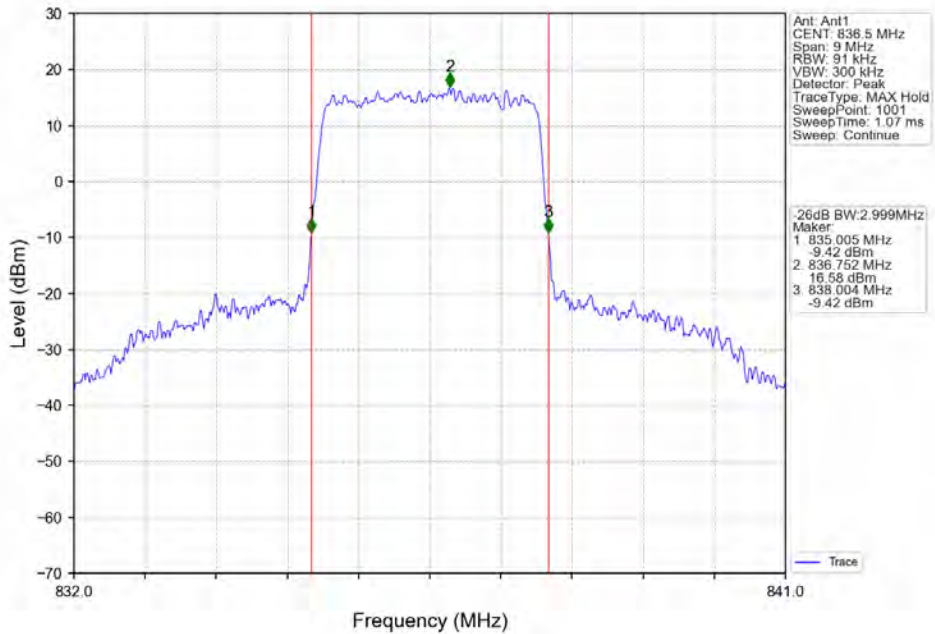
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



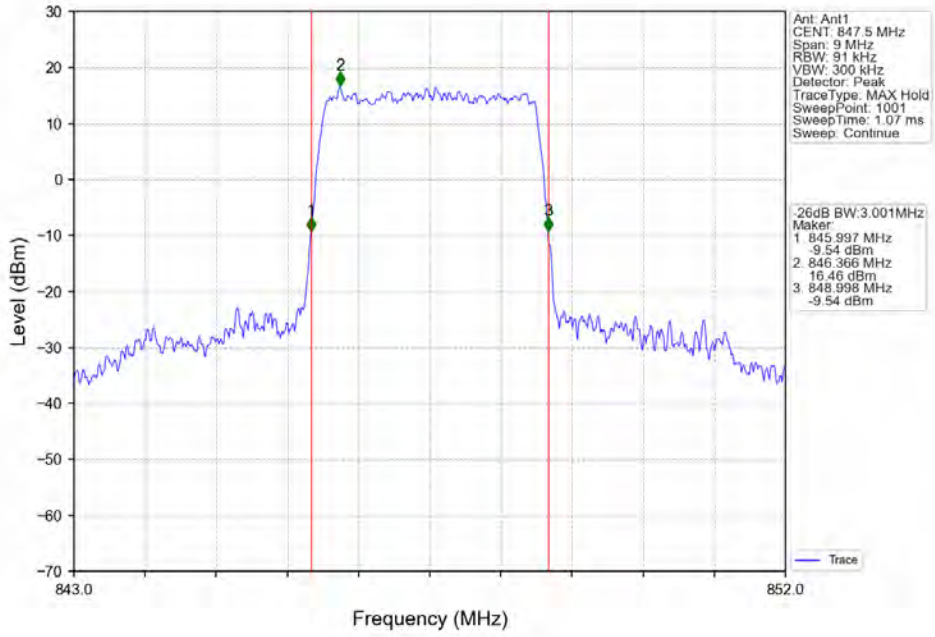
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



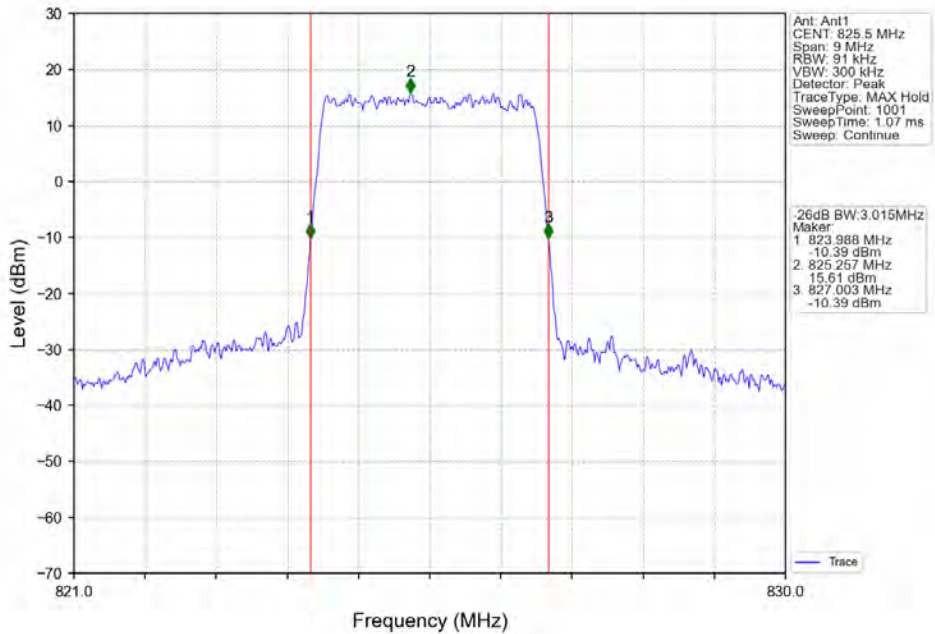
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



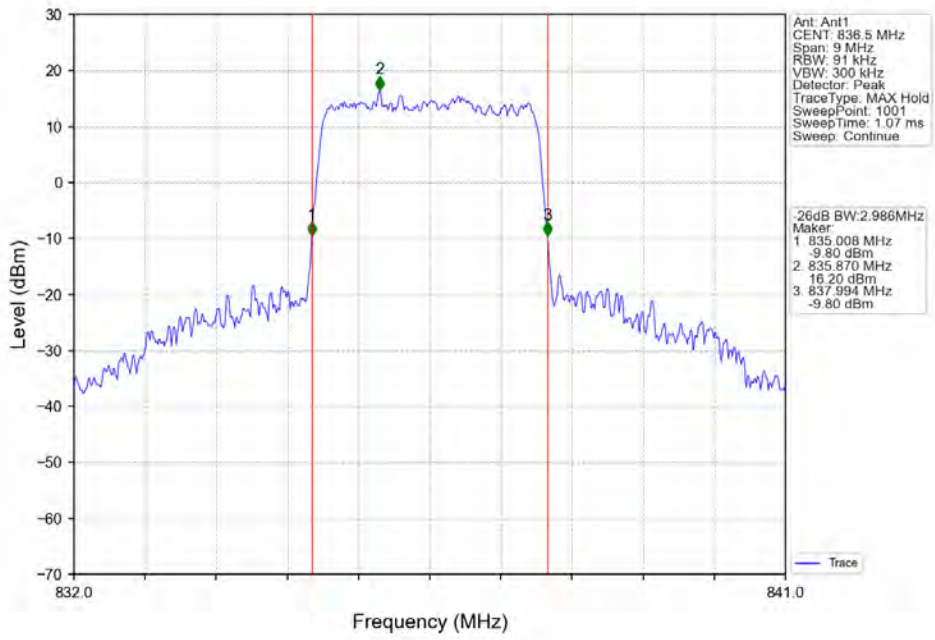
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



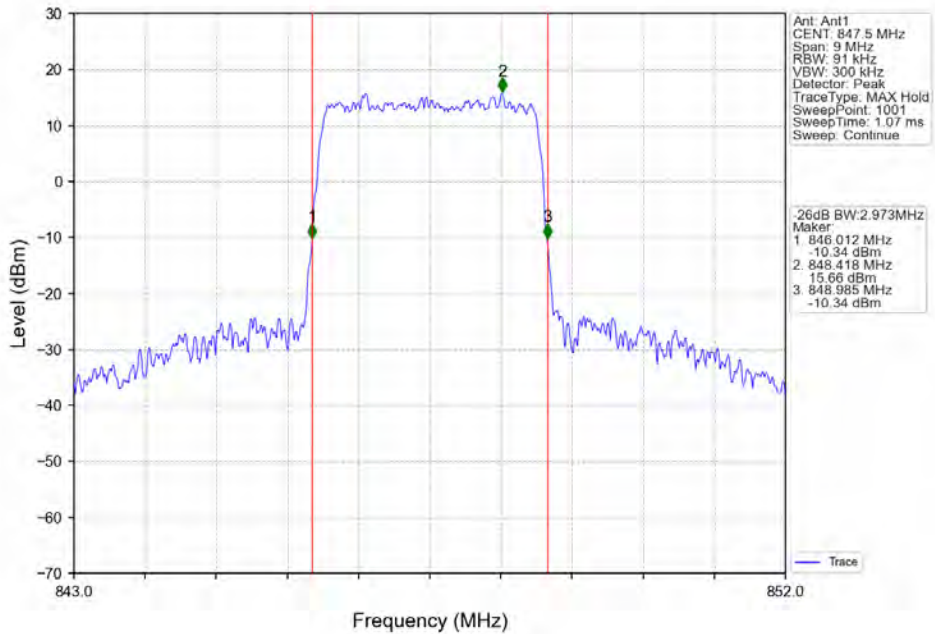
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



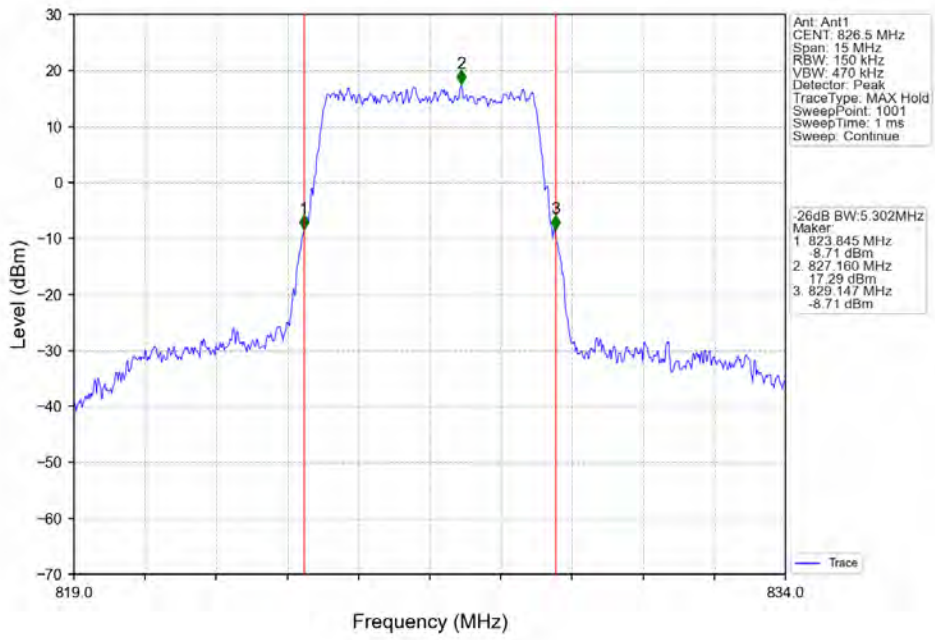
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



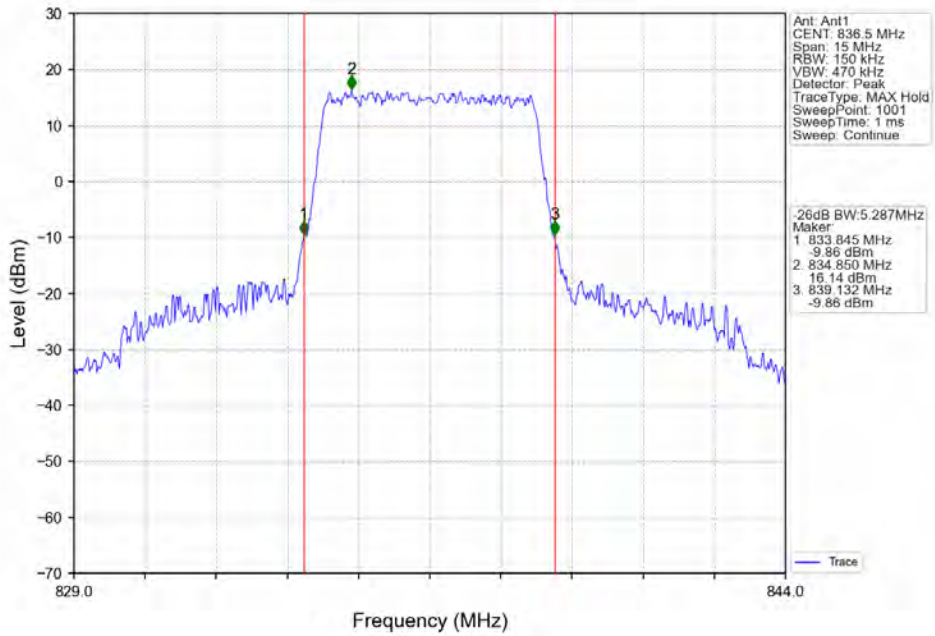
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



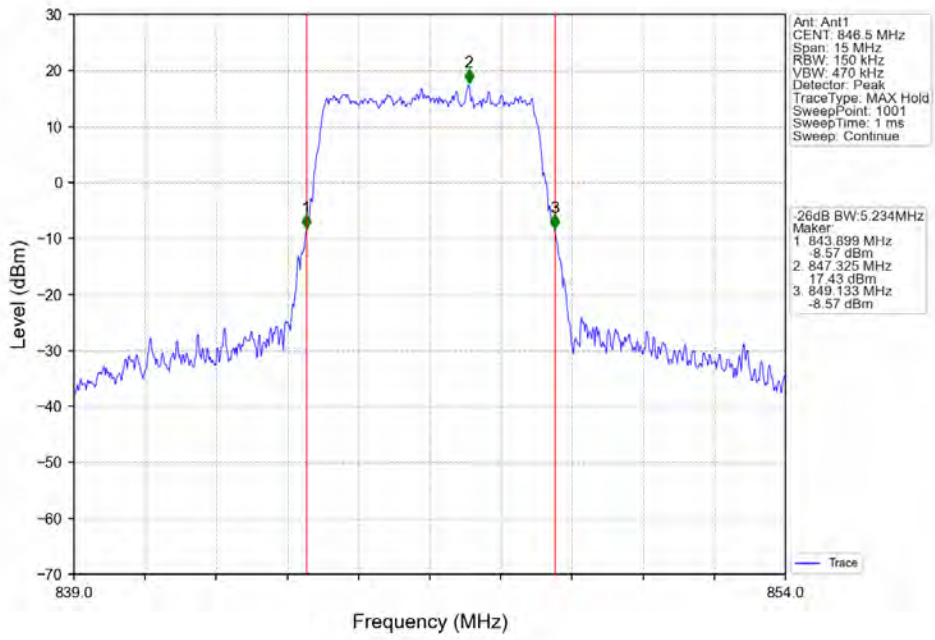
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



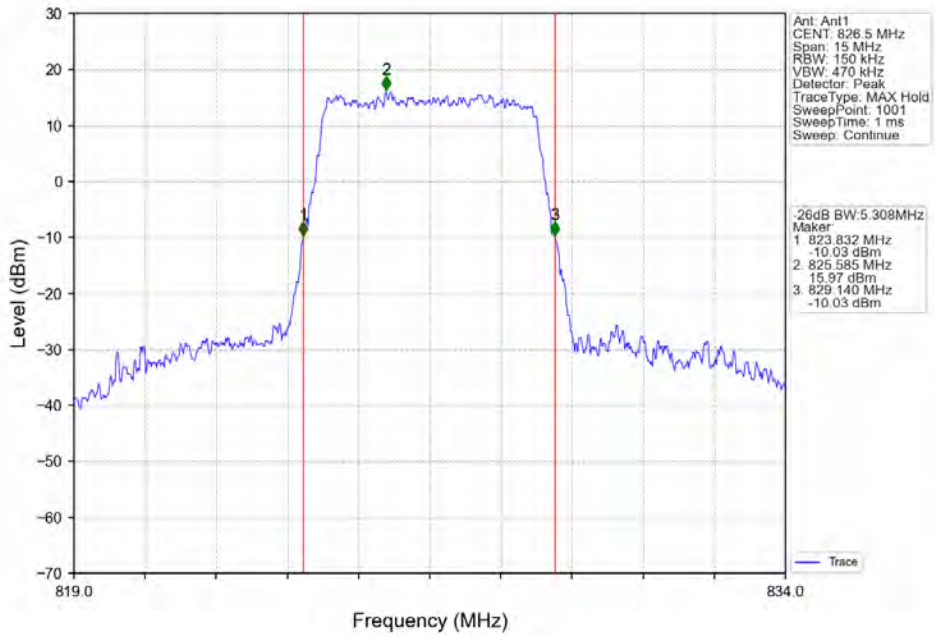
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



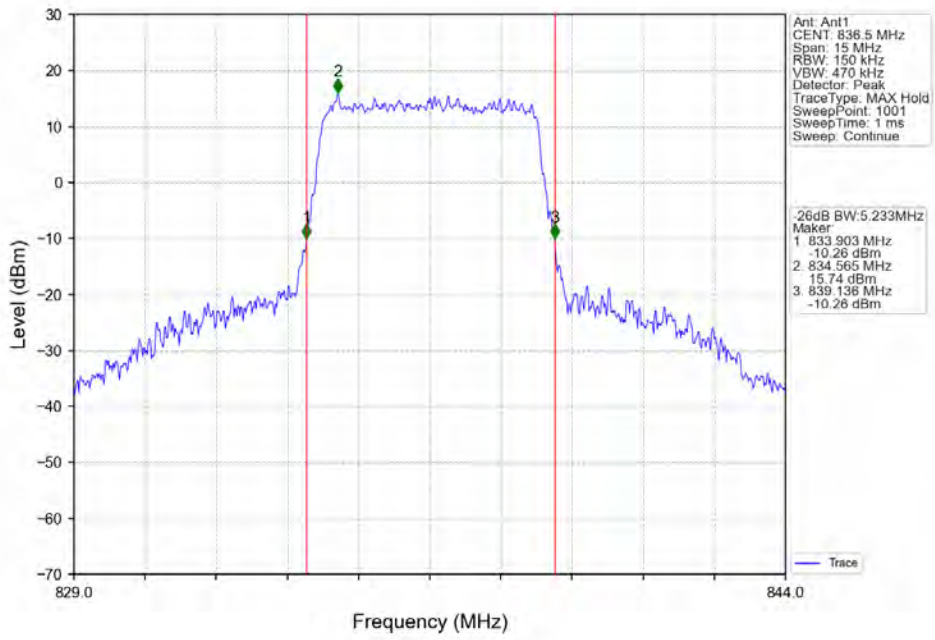
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



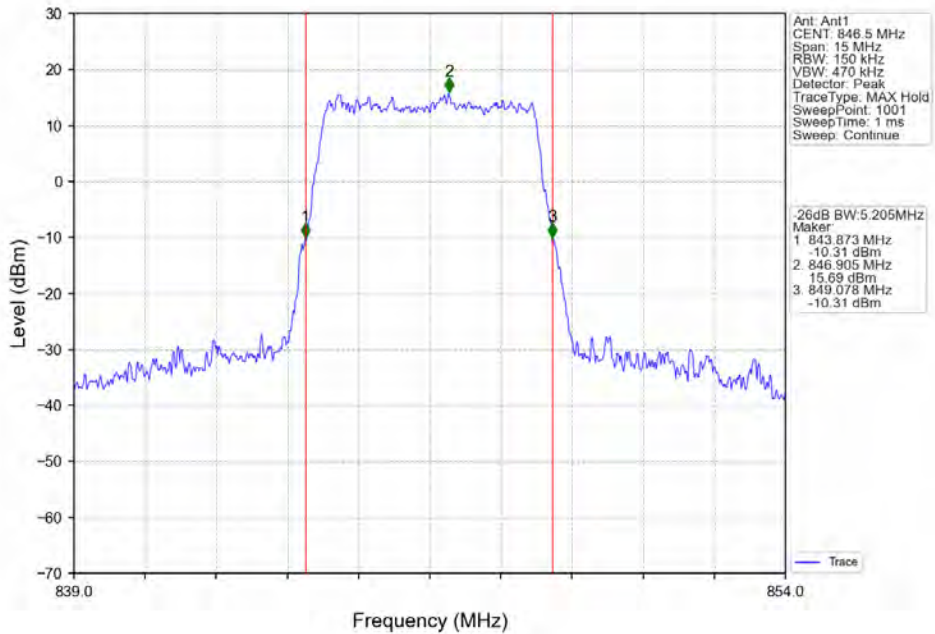
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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

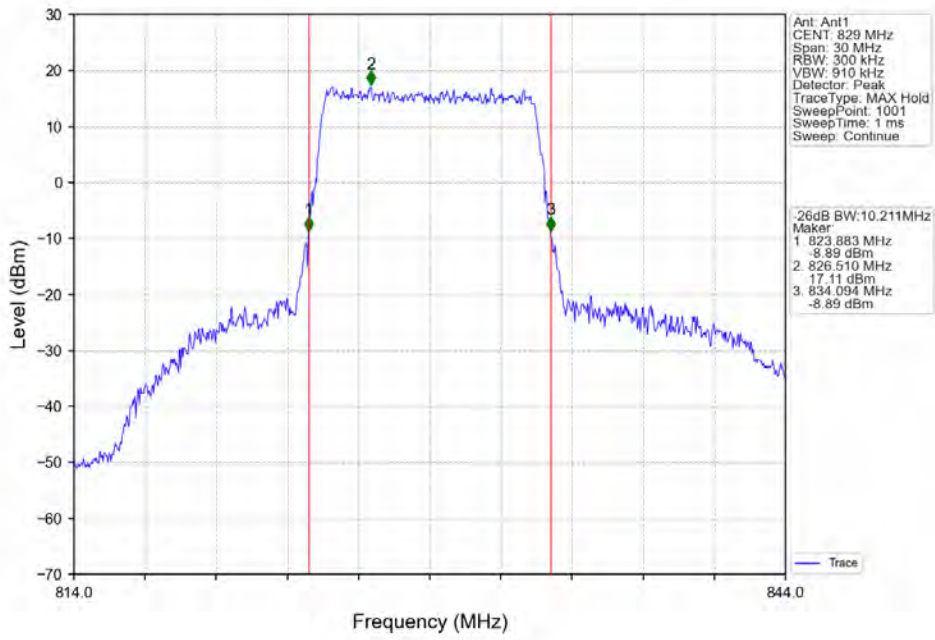


Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

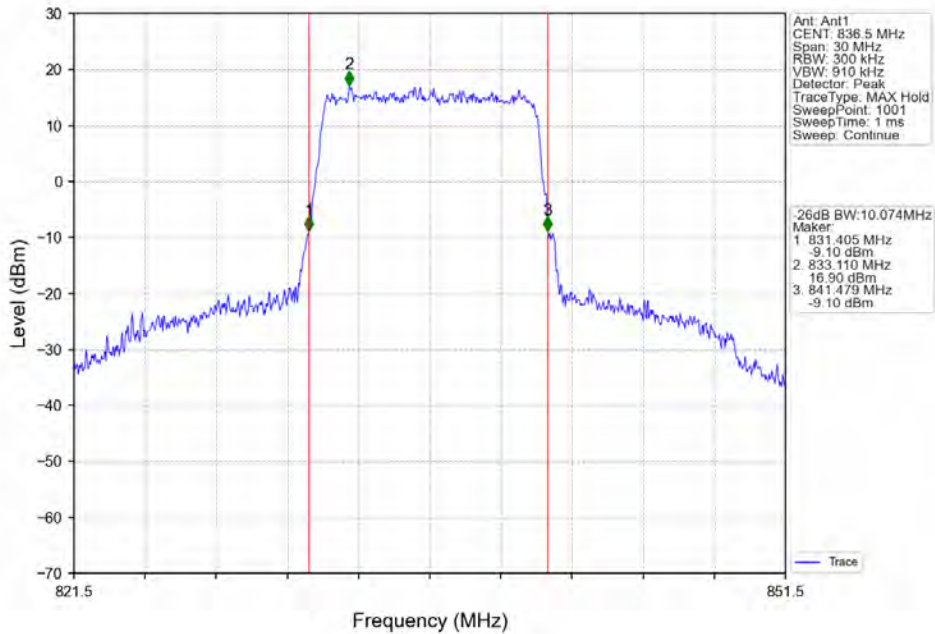




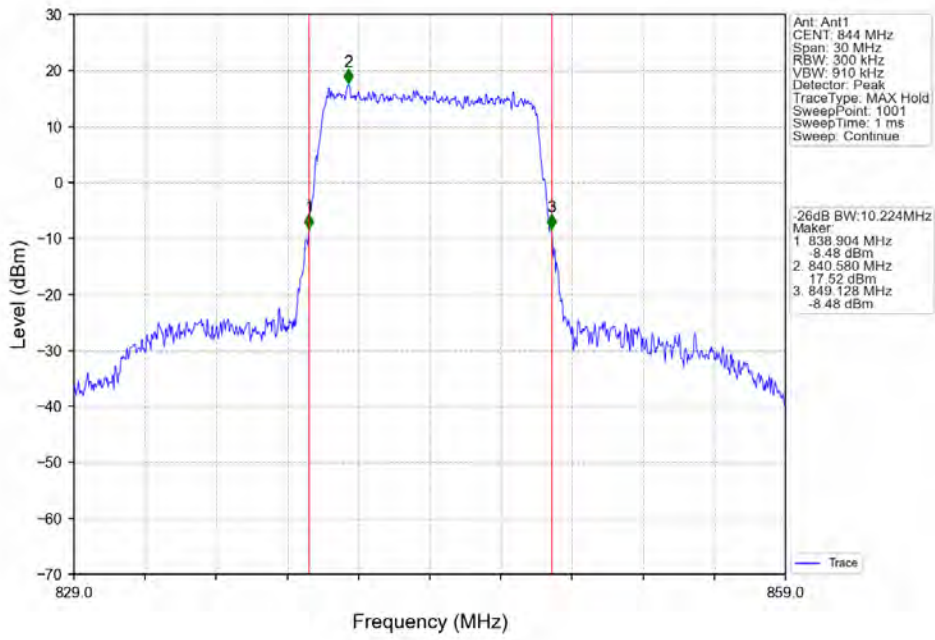
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



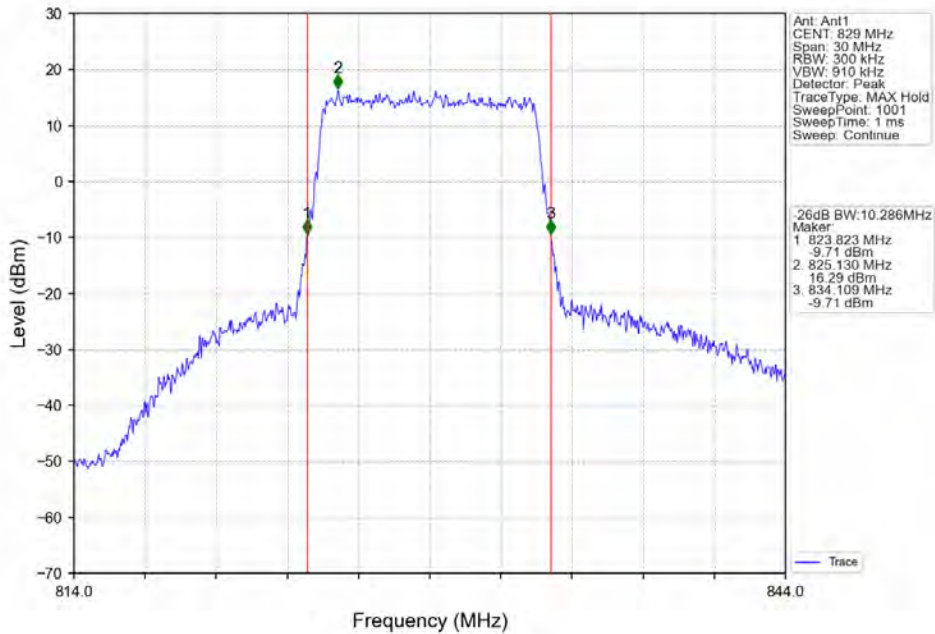
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



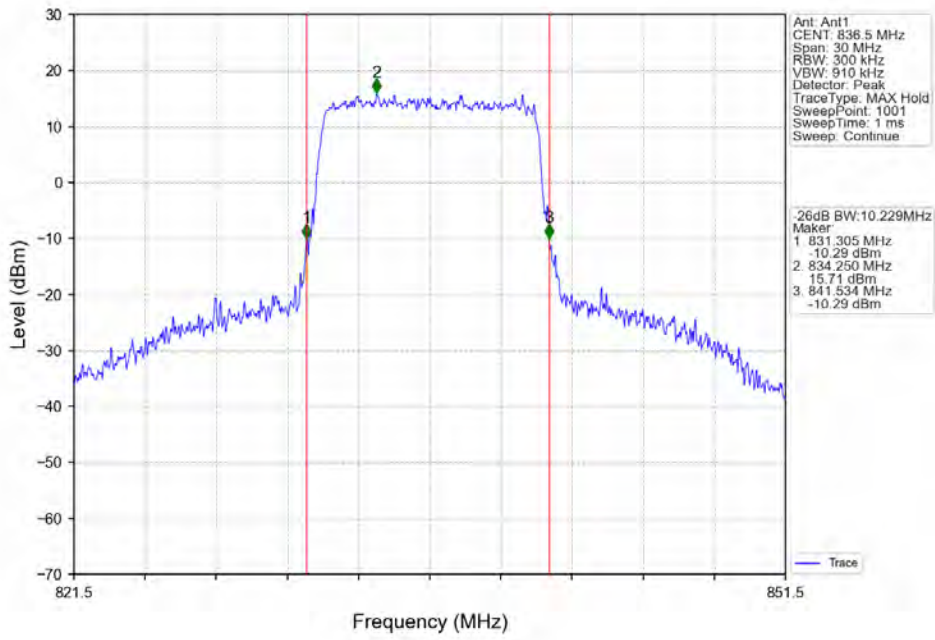
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



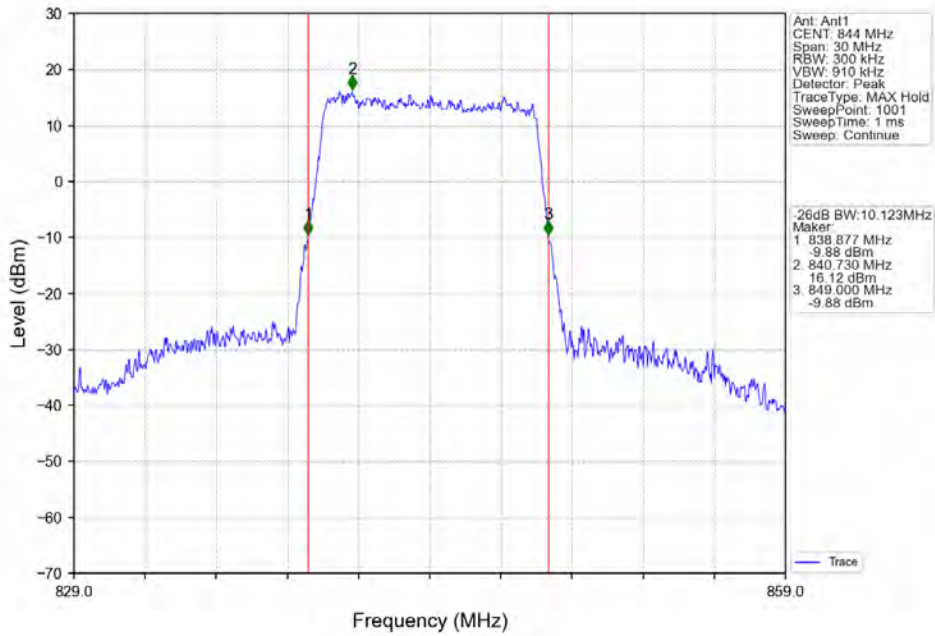
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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



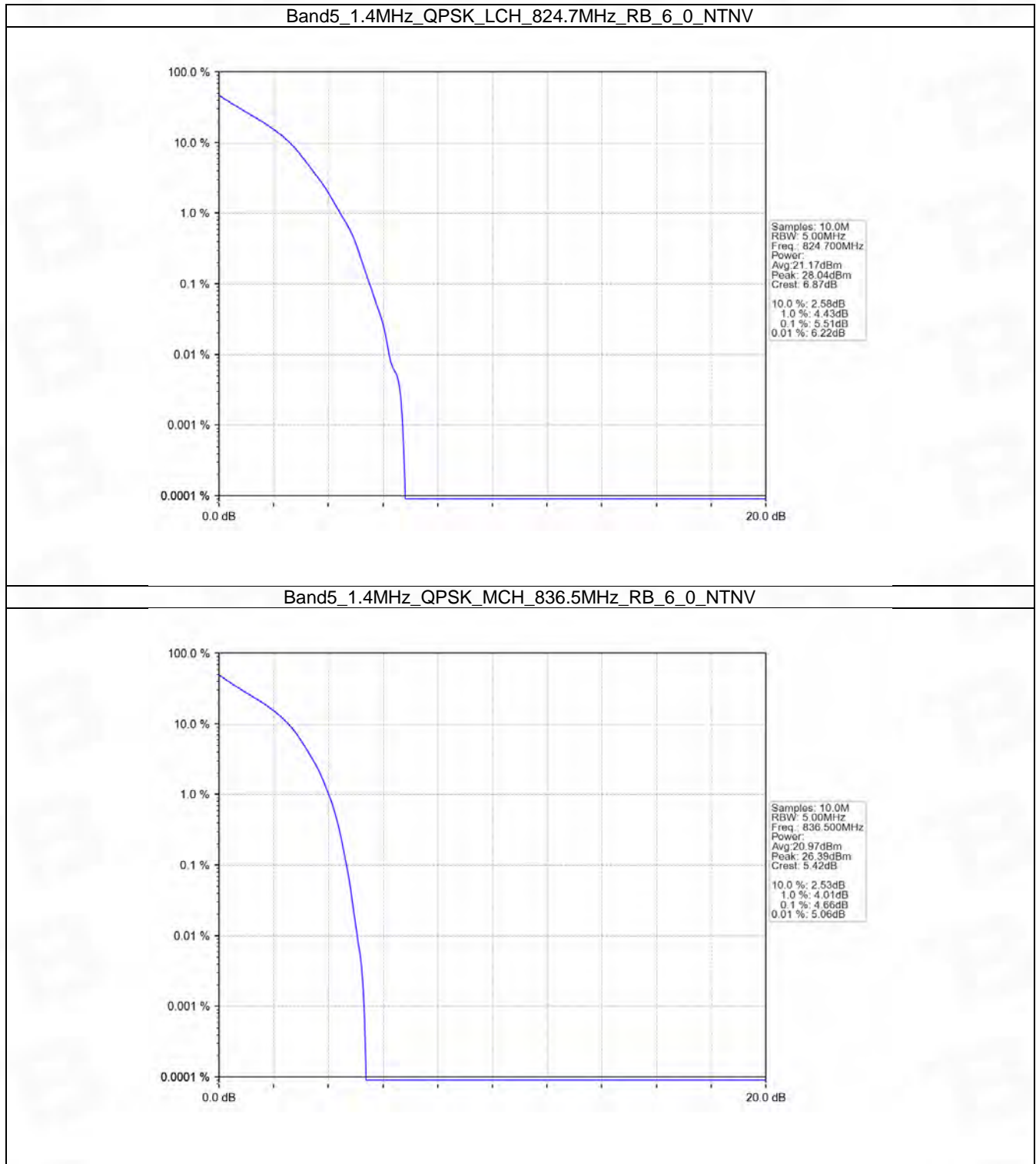
## 5. Peak-Average Ratio

### 5.1 B5\_1.4MHz

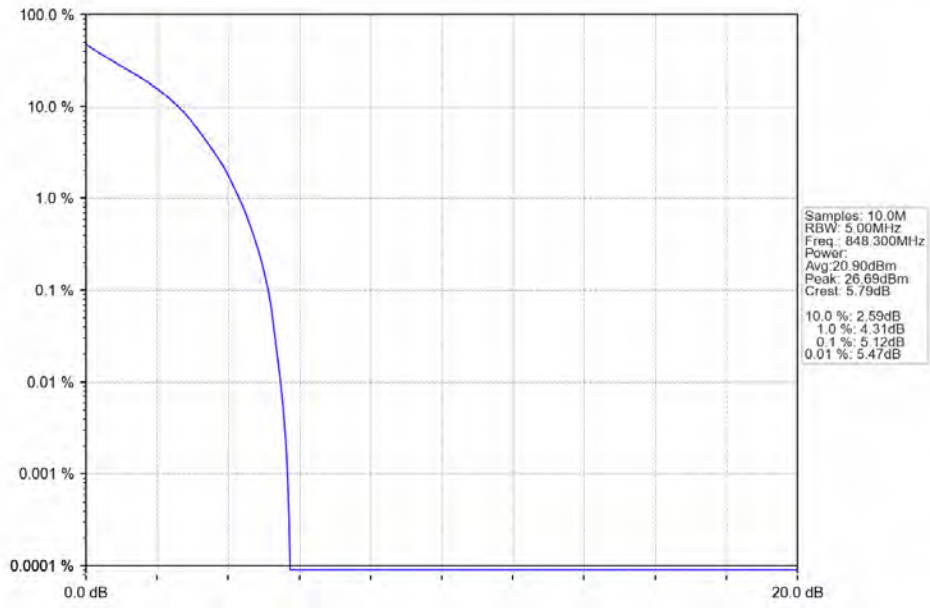
#### 5.1.1 Test Result

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	5.51	<=13	Pass
	836.5	6	0	4.66	<=13	Pass
	848.3	6	0	5.12	<=13	Pass
16QAM	824.7	6	0	6.32	<=13	Pass
	836.5	6	0	5.47	<=13	Pass
	848.3	6	0	5.94	<=13	Pass

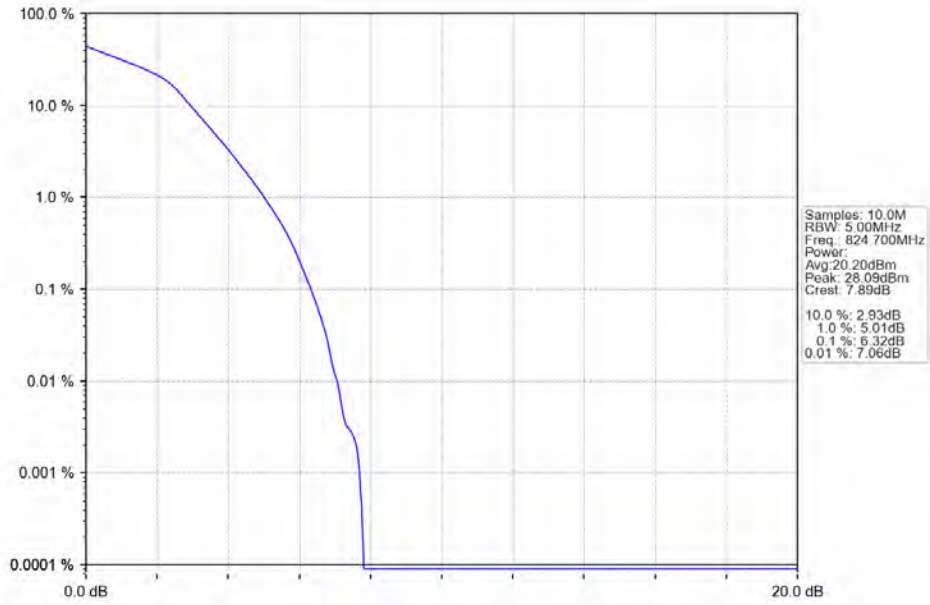
### 5.1.2 Test Graph



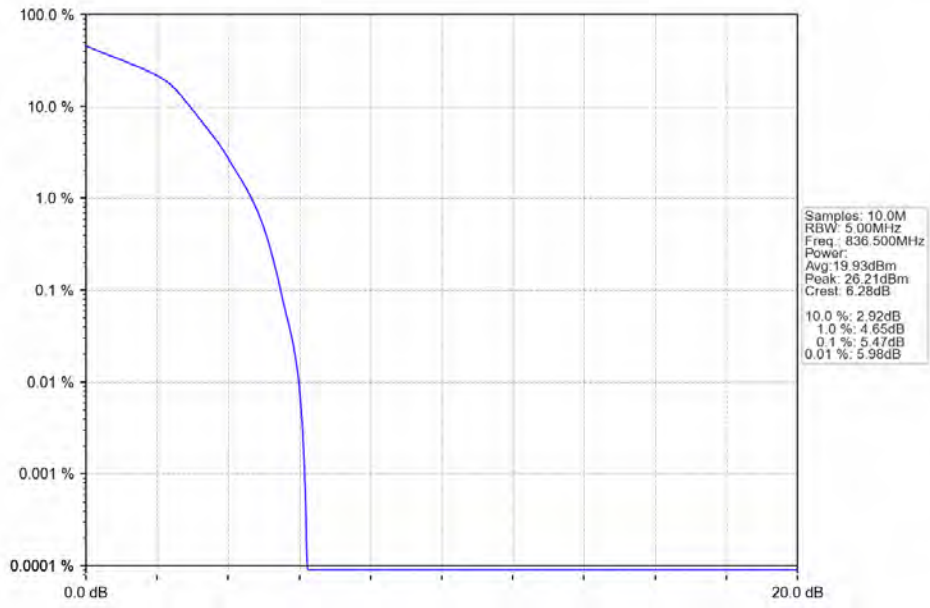
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



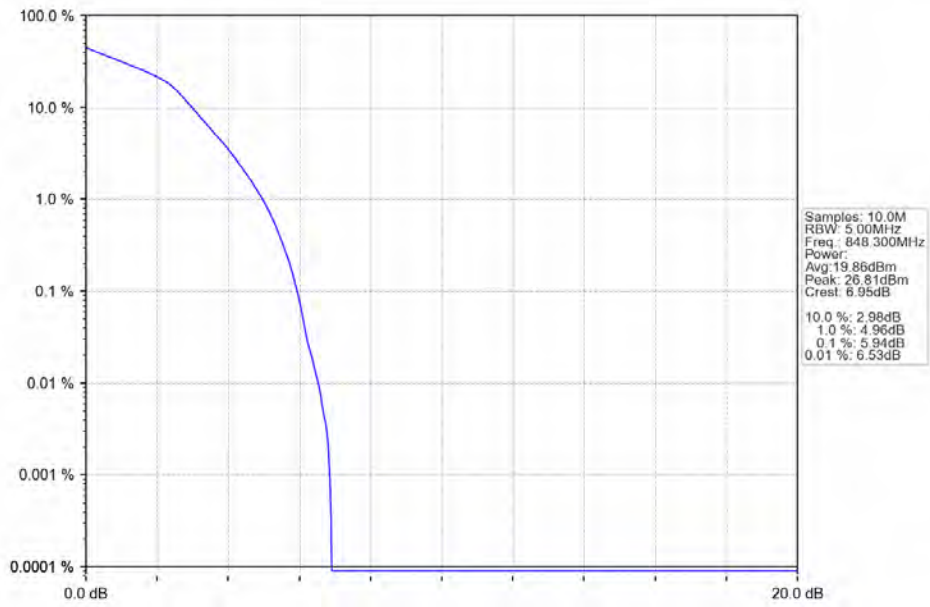
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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



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



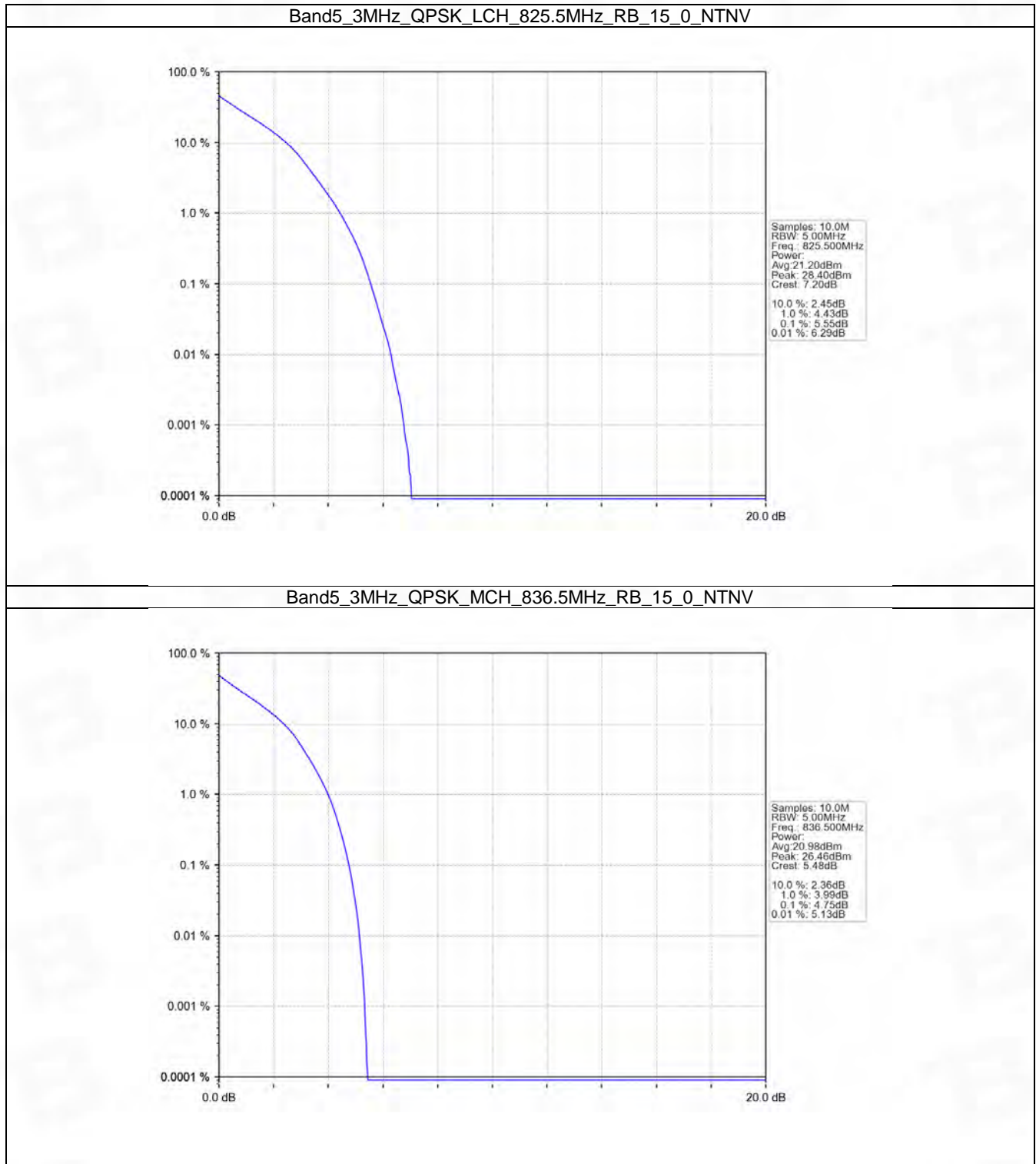
## 5.2 B5\_3MHz

### 5.2.1 Test Result

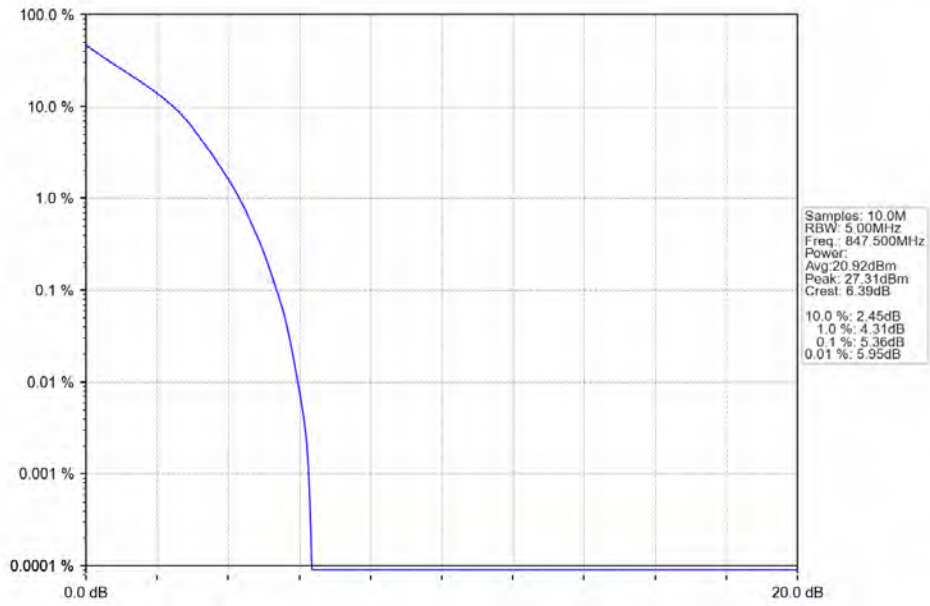
Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.55	<=13	Pass
	836.5	15	0	4.75	<=13	Pass
	847.5	15	0	5.36	<=13	Pass
16QAM	825.5	15	0	6.39	<=13	Pass
	836.5	15	0	5.61	<=13	Pass
	847.5	15	0	6.17	<=13	Pass



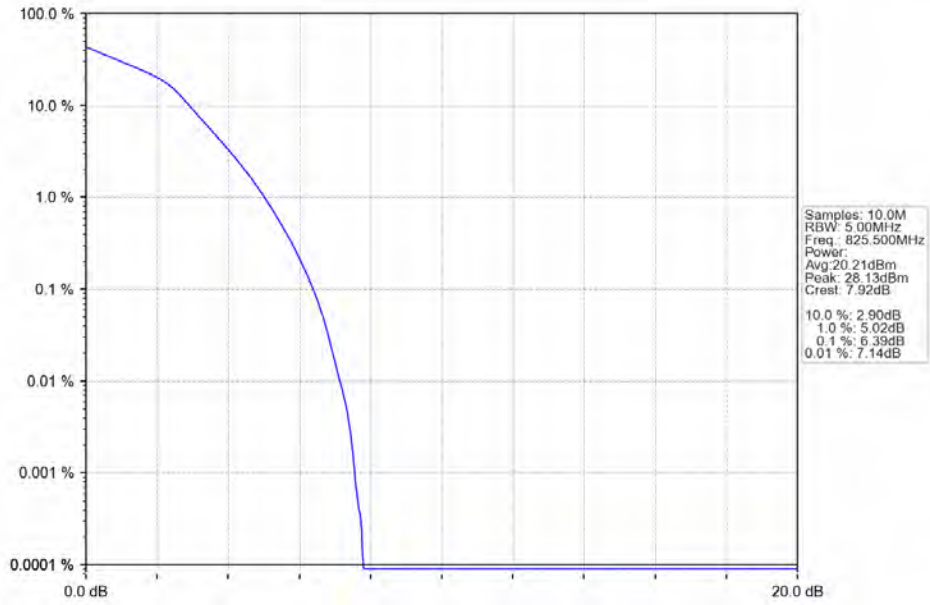
## 5.2.2 Test Graph



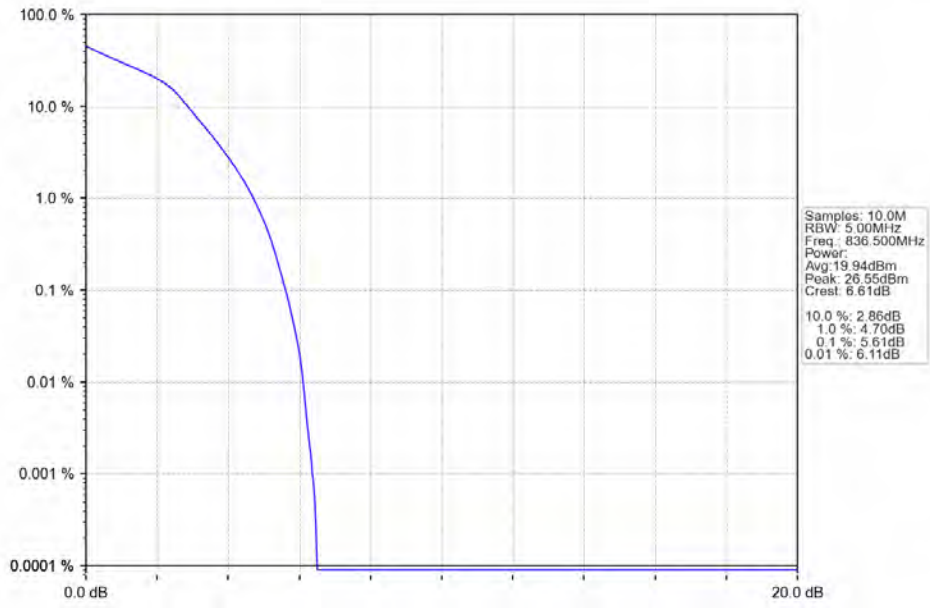
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



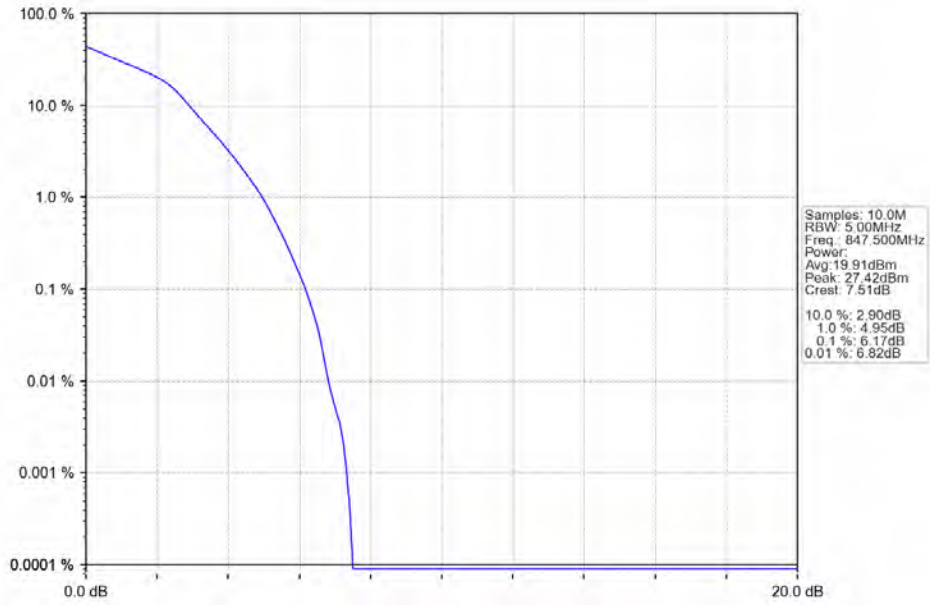
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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



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

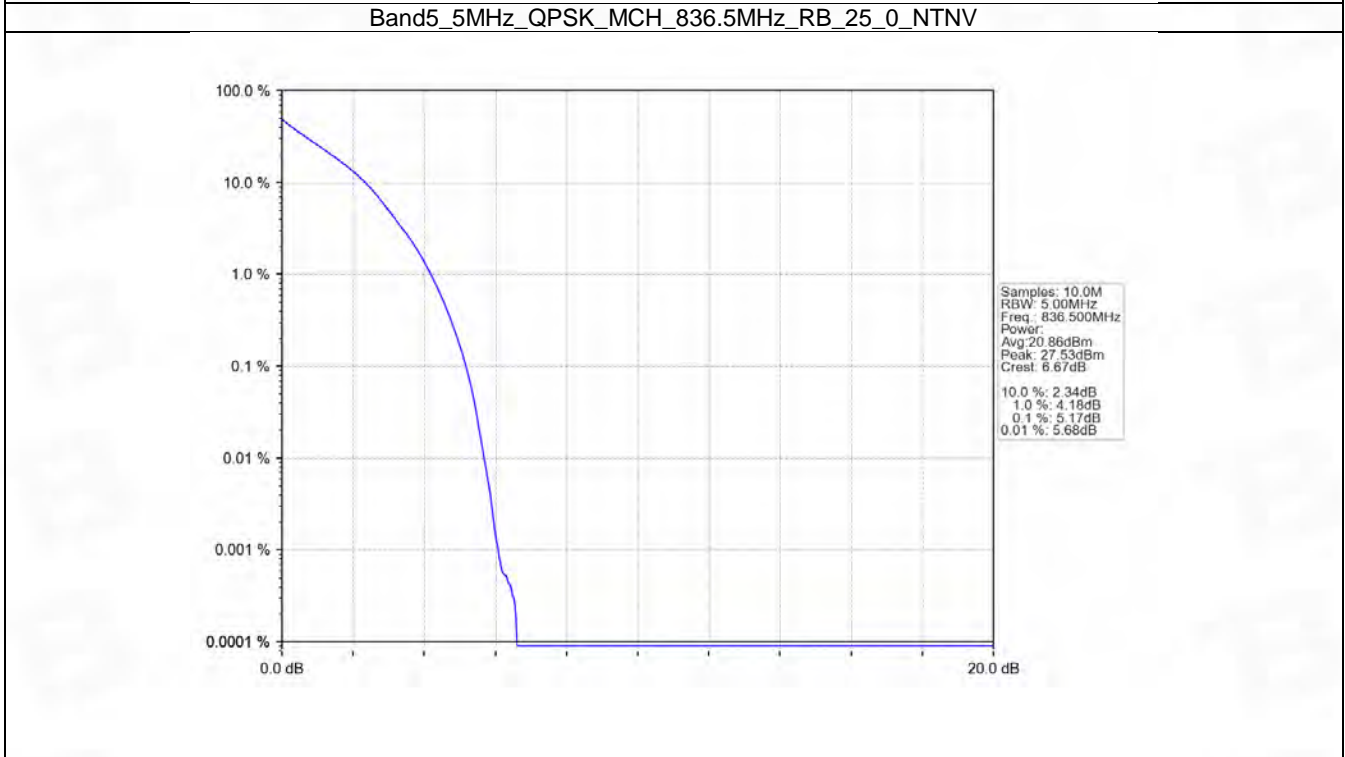
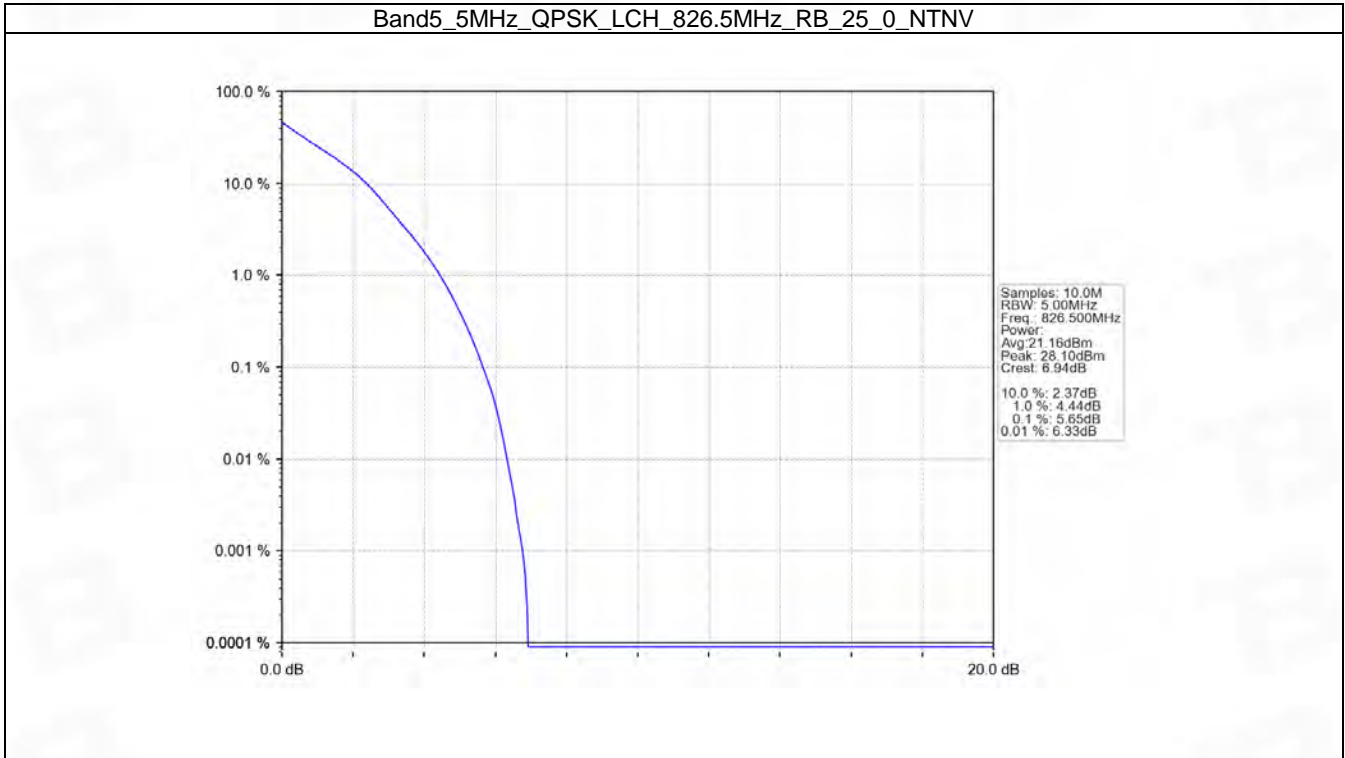


## 5.3 B5\_5MHz

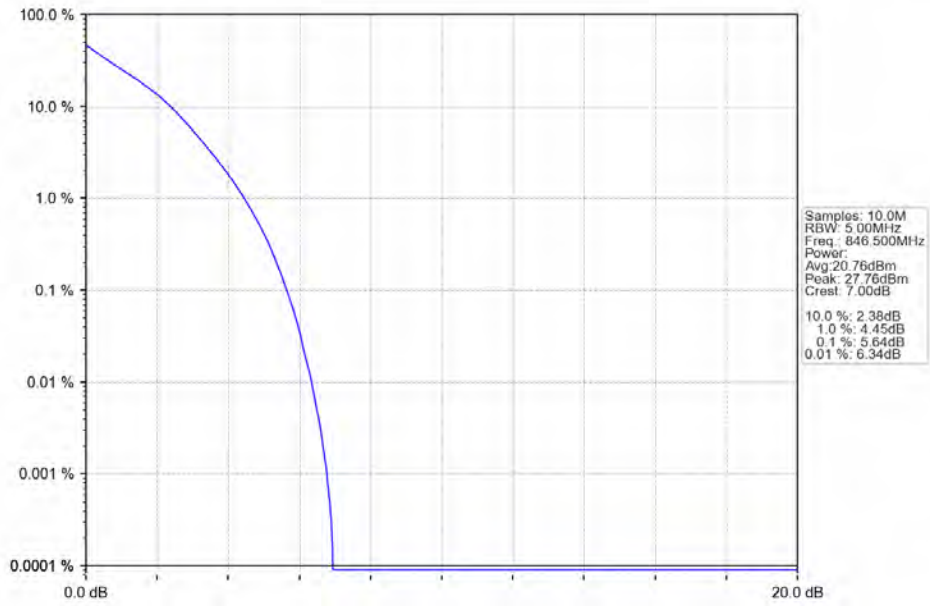
### 5.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.65	<=13	Pass
	836.5	25	0	5.17	<=13	Pass
	846.5	25	0	5.64	<=13	Pass
16QAM	826.5	25	0	6.38	<=13	Pass
	836.5	25	0	5.88	<=13	Pass
	846.5	25	0	6.38	<=13	Pass

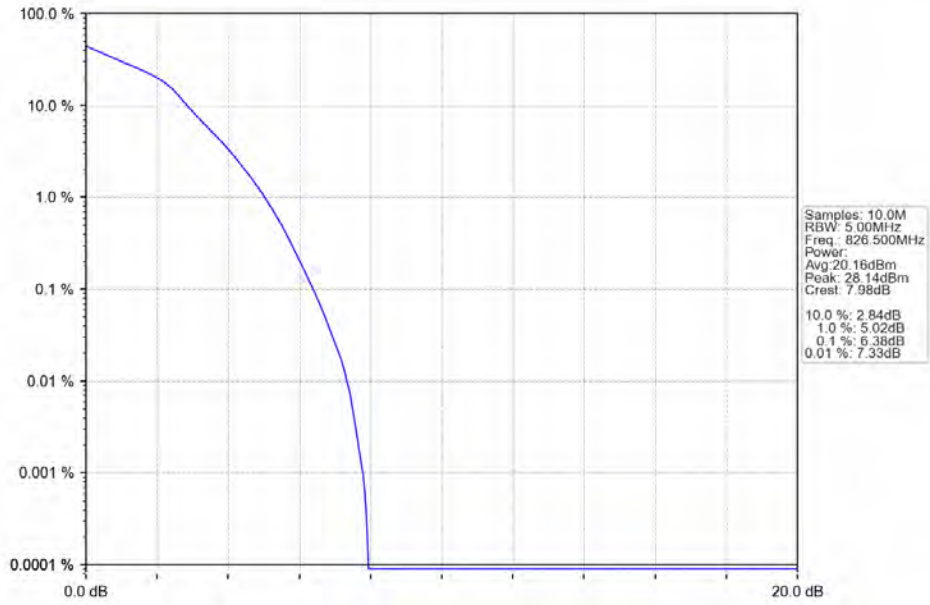
### 5.3.2 Test Graph



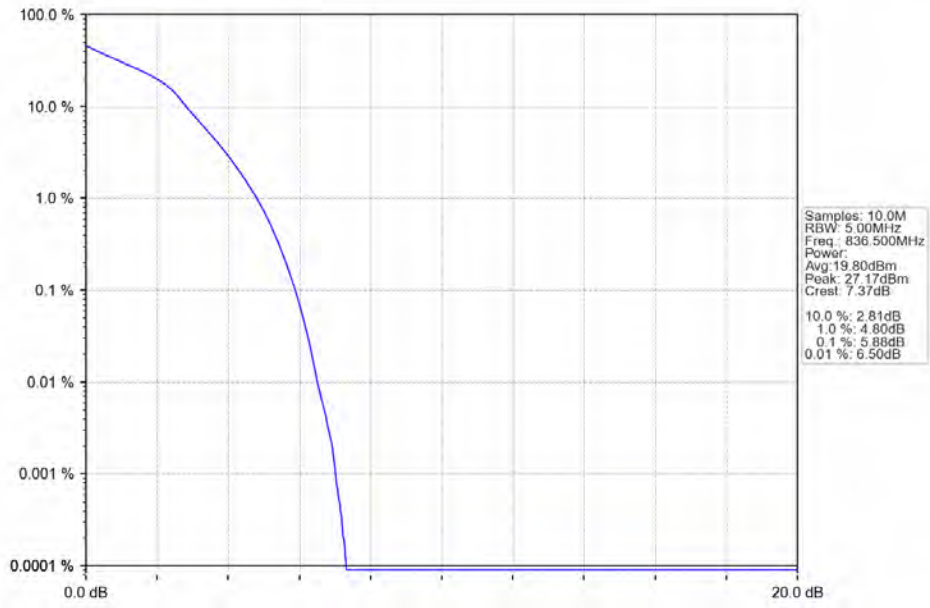
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



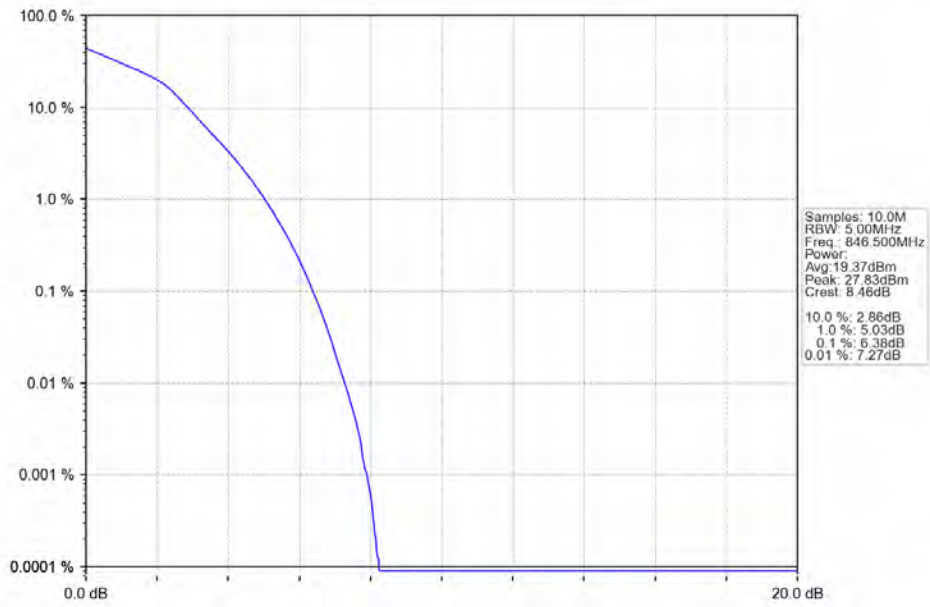
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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



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



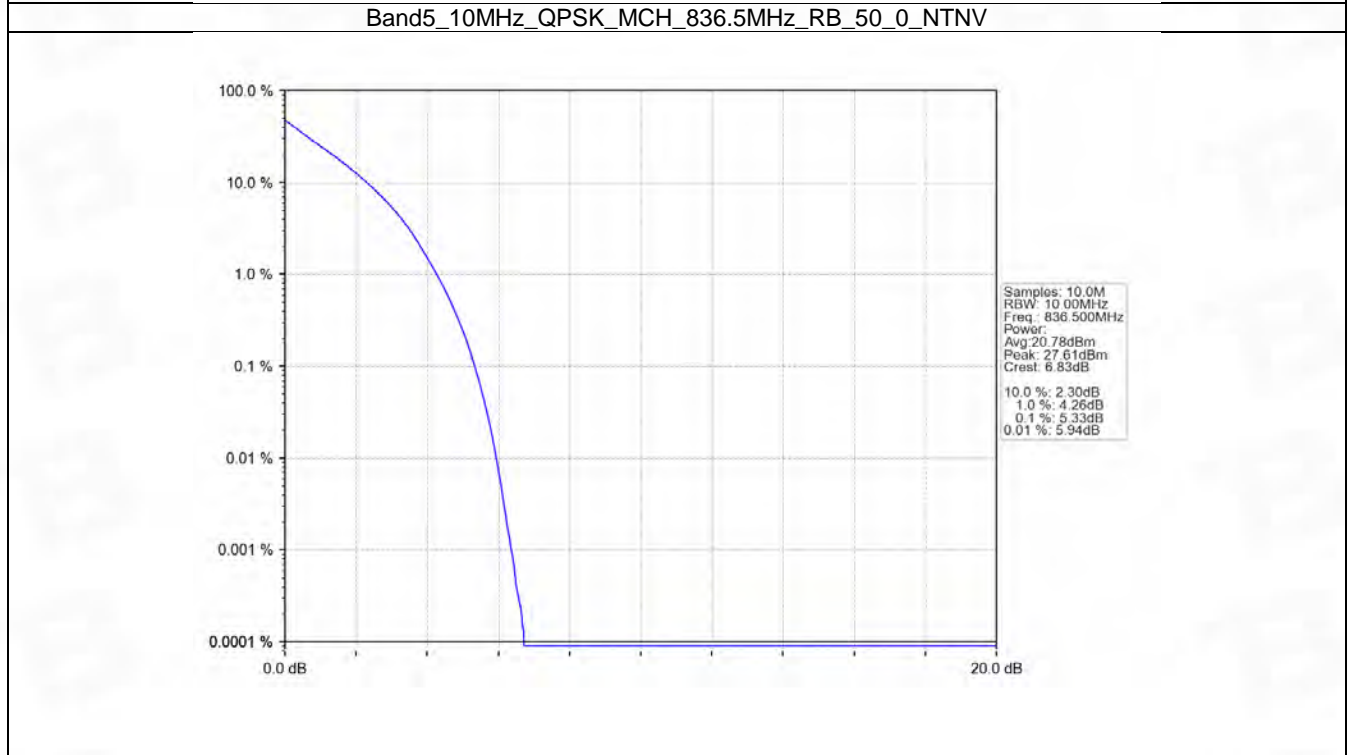
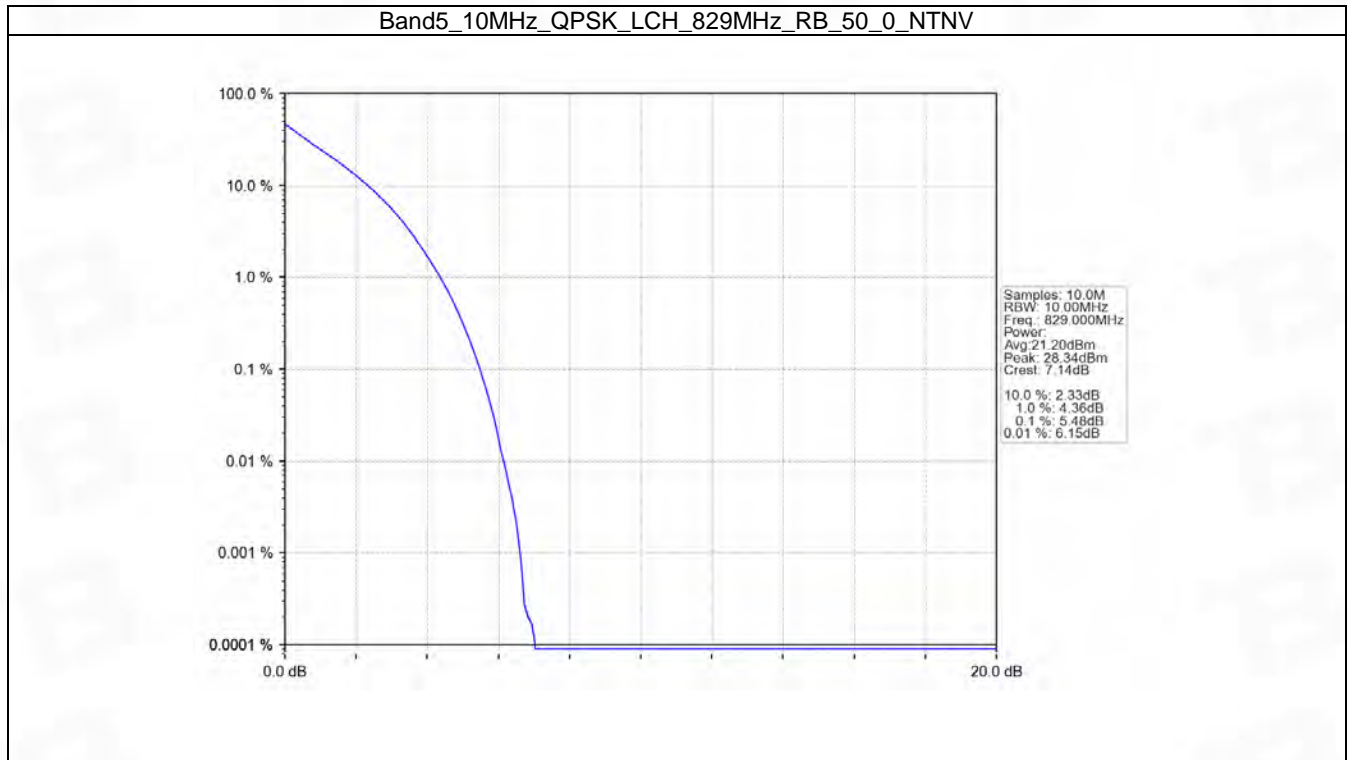
## 5.4 B5\_10MHz

### 5.4.1 Test Result

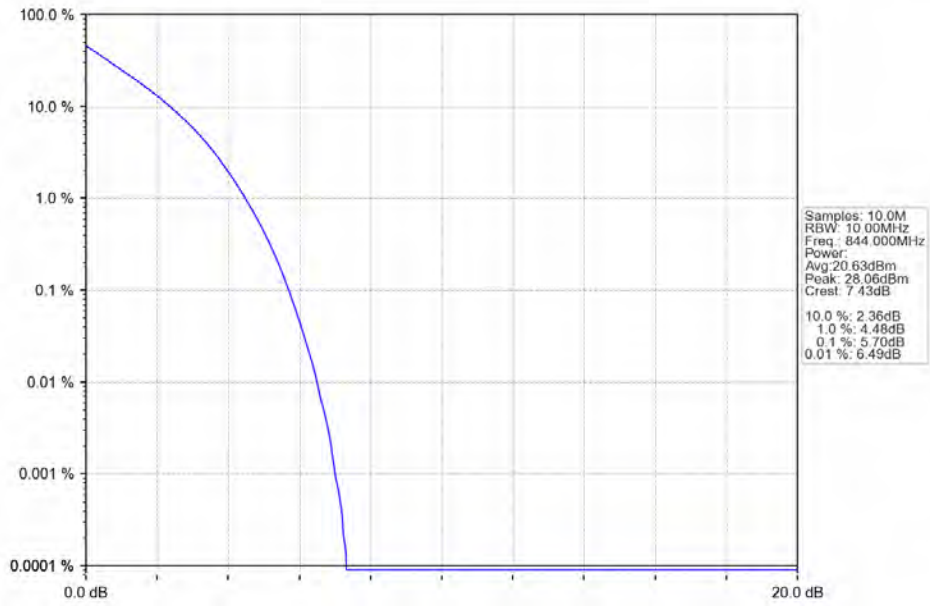
Band: 5 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.48	<=13	Pass
	836.5	50	0	5.33	<=13	Pass
	844	50	0	5.70	<=13	Pass
16QAM	829	50	0	6.23	<=13	Pass
	836.5	50	0	6.11	<=13	Pass
	844	50	0	6.39	<=13	Pass



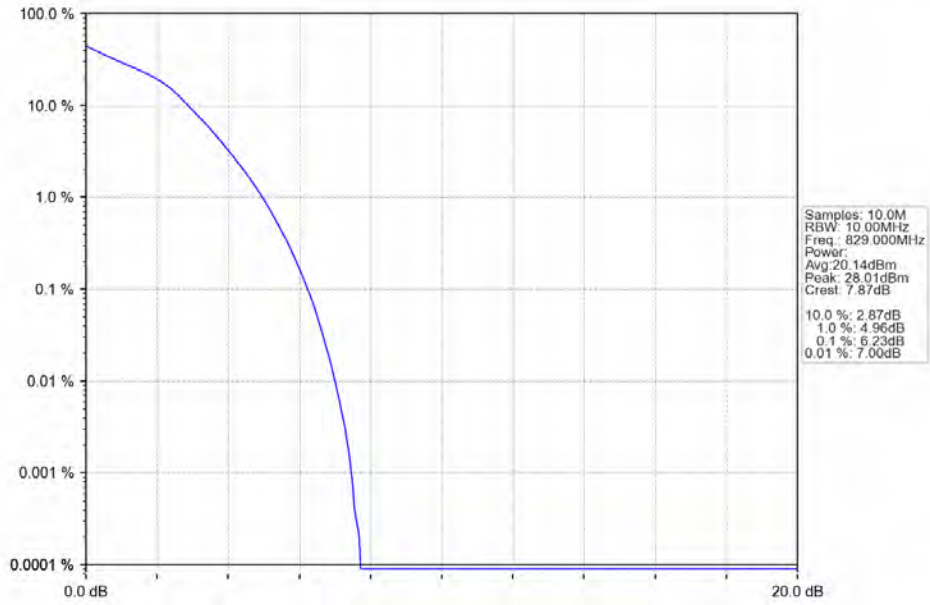
### 5.4.2 Test Graph



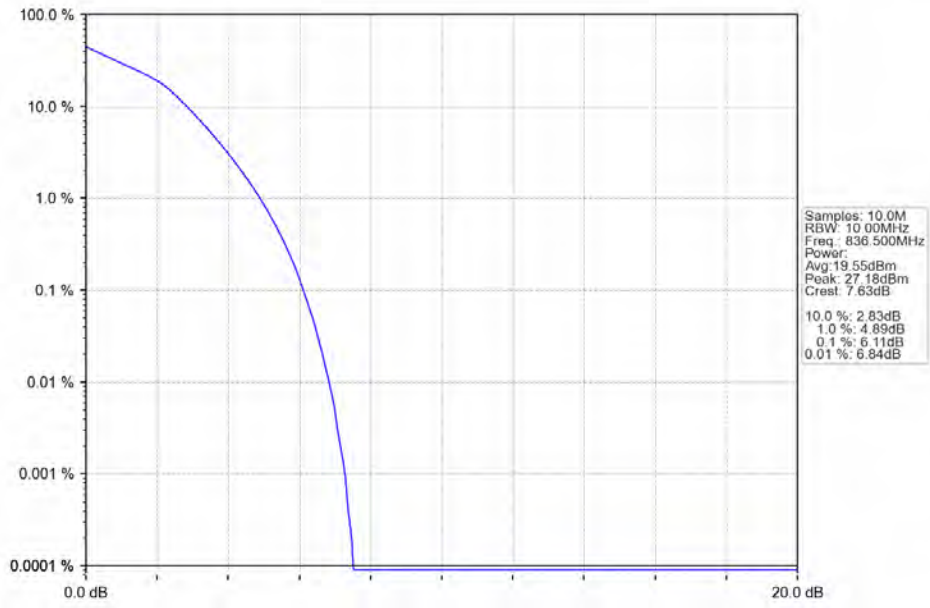
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



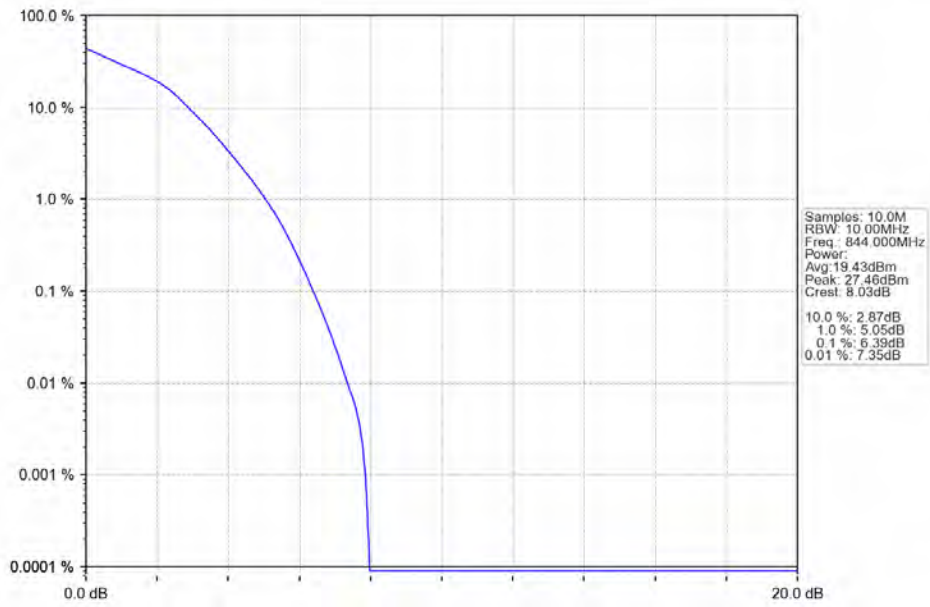
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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



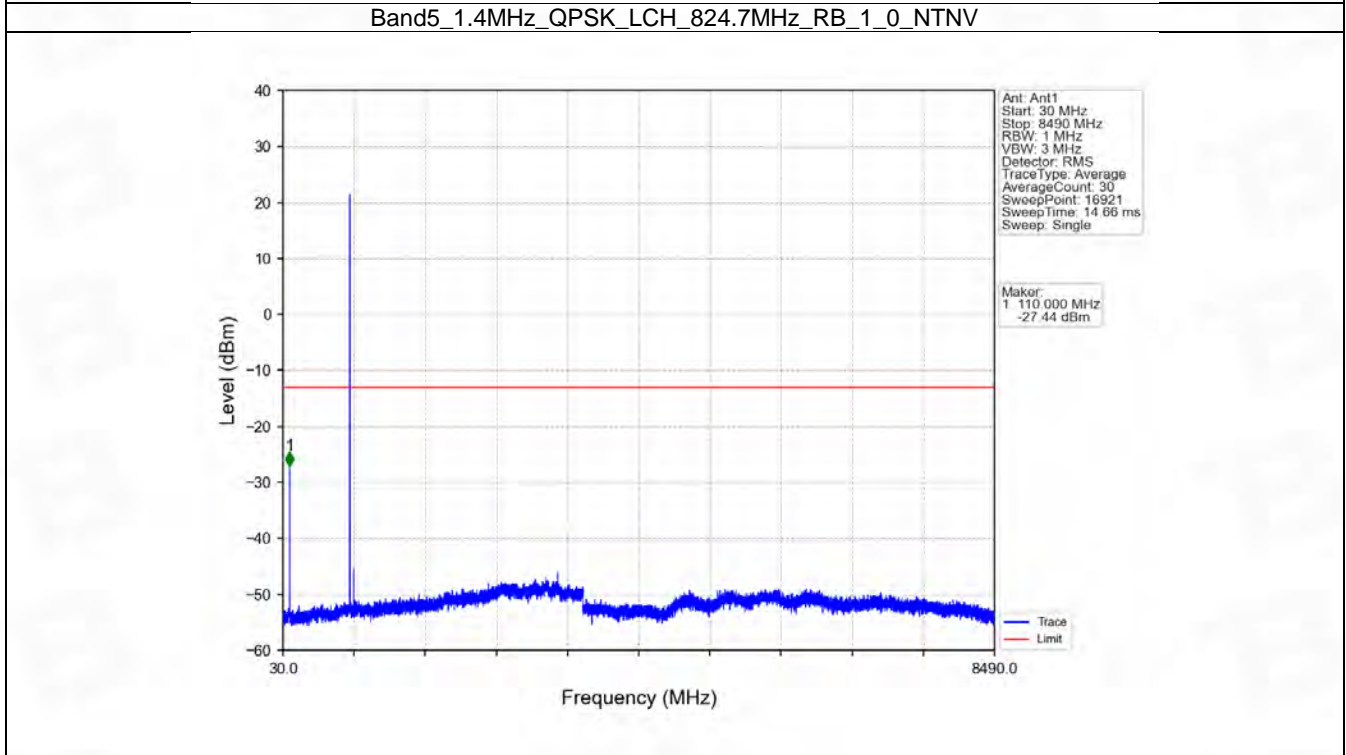
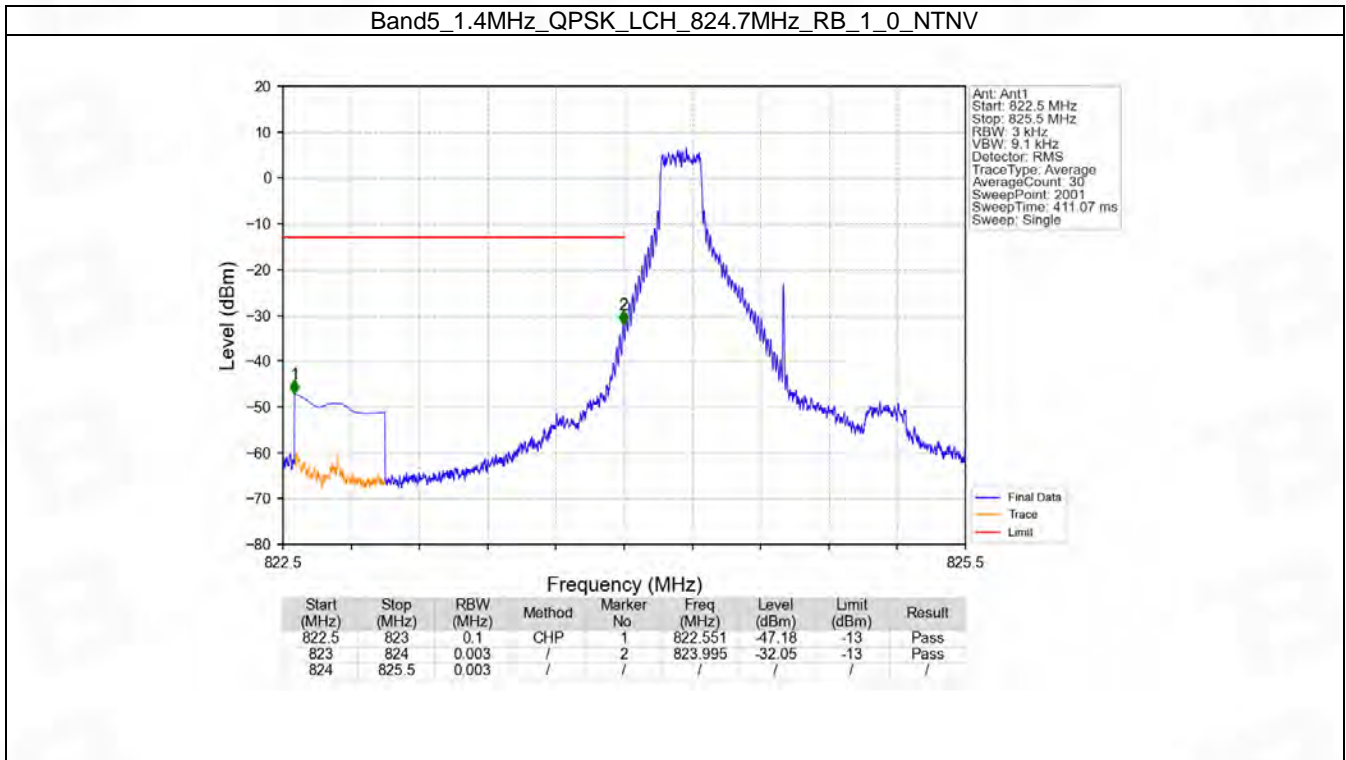
## 6. Spurious Emission

### 6.1 B5\_1.4MHz

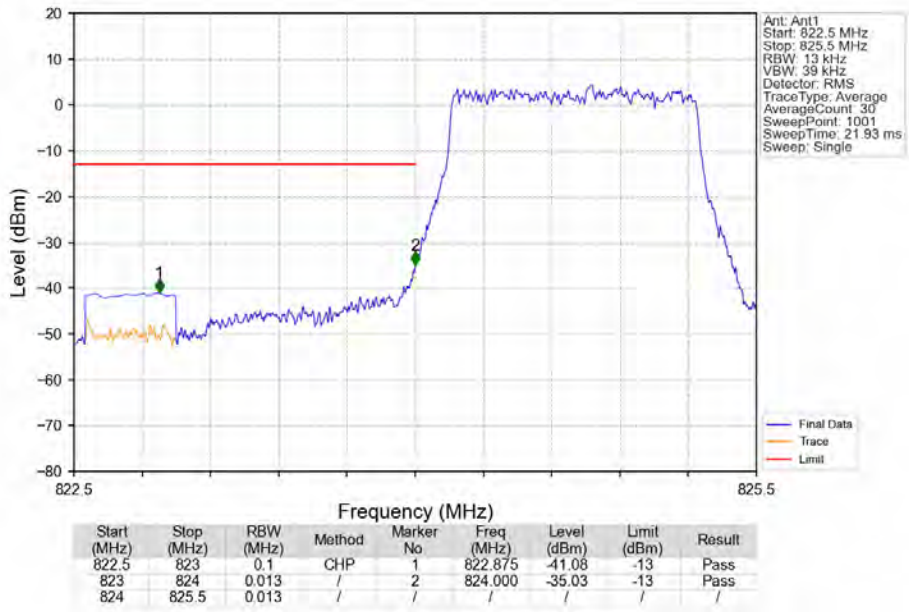
#### 6.1.1 Test Result

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
	848.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
			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
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass

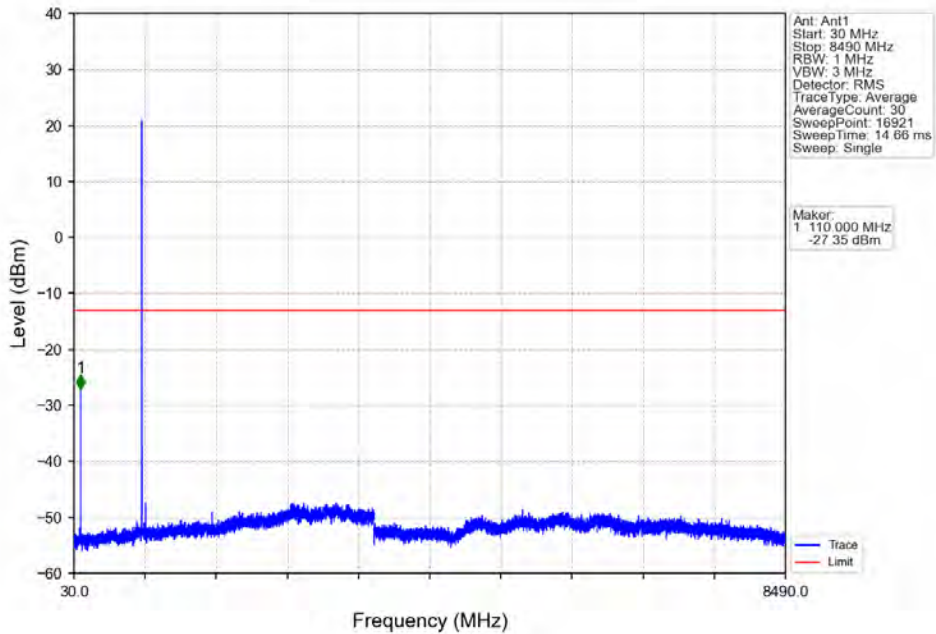
### 6.1.2 Test Graph



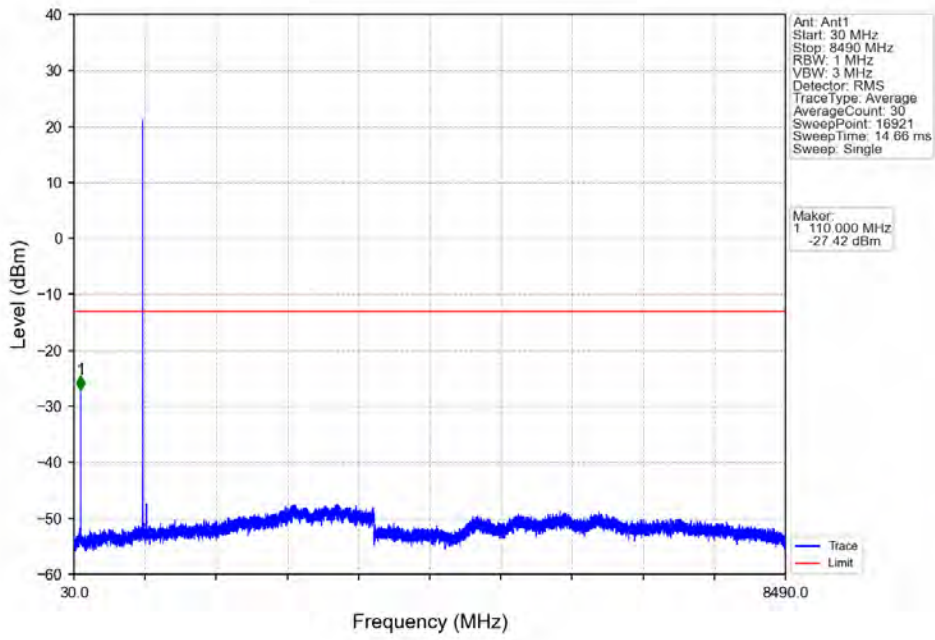
Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



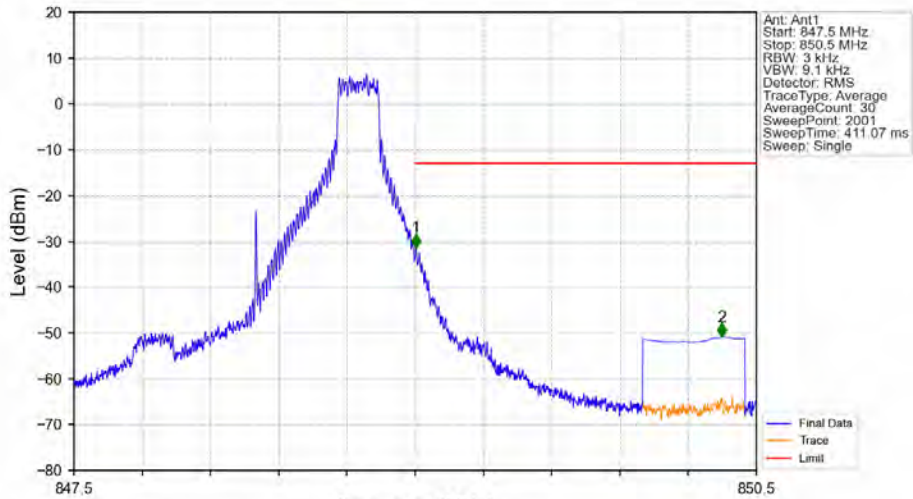
Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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

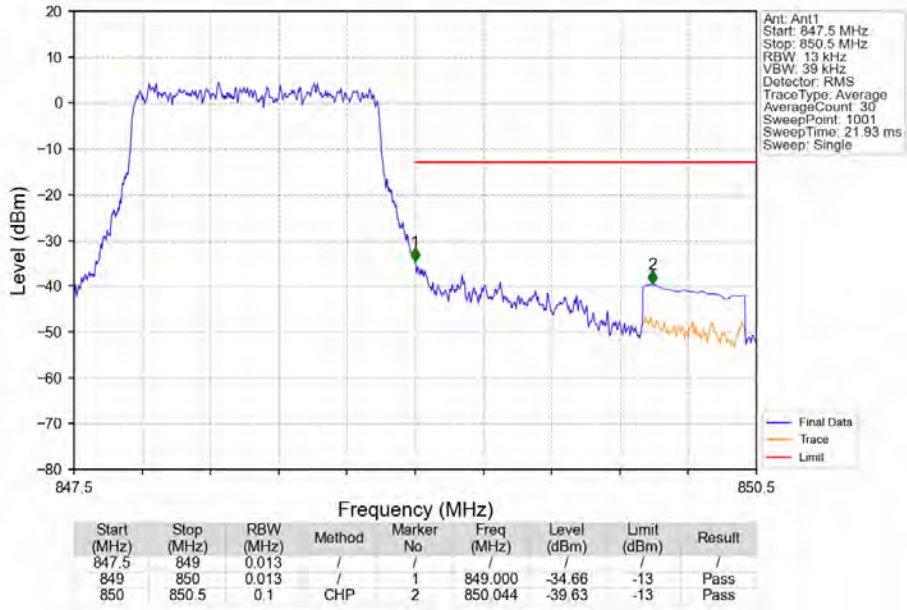


Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_5\_NTNV

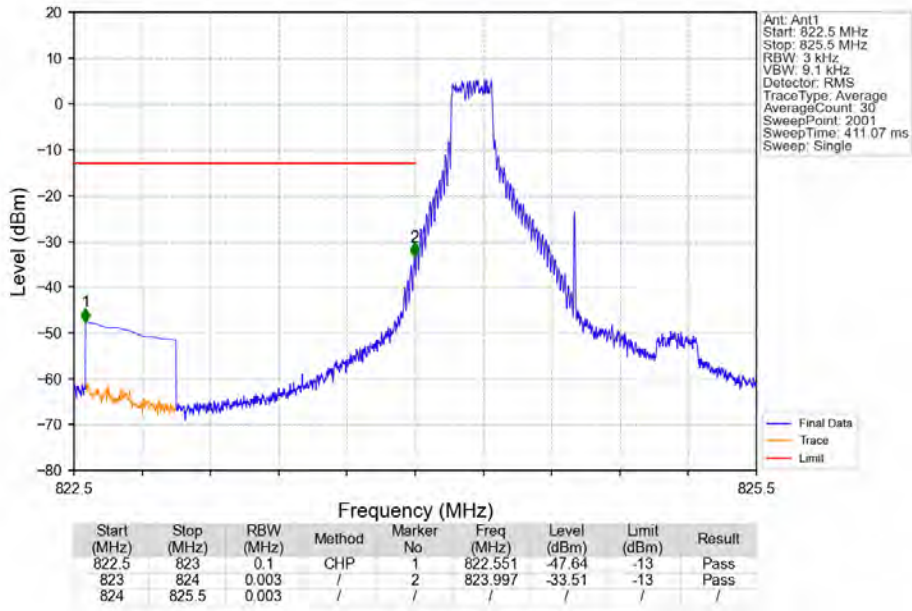


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.003	-31.44	-13	Pass
850	850.5	0.1	CHP	2	850.348	-50.94	-13	Pass

Band5 1.4MHz QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV

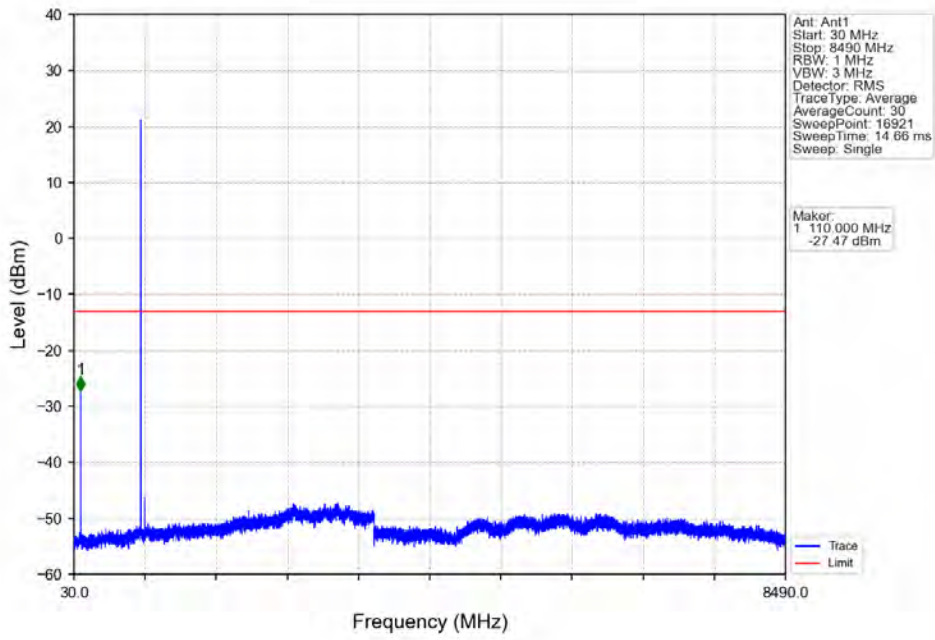


Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV

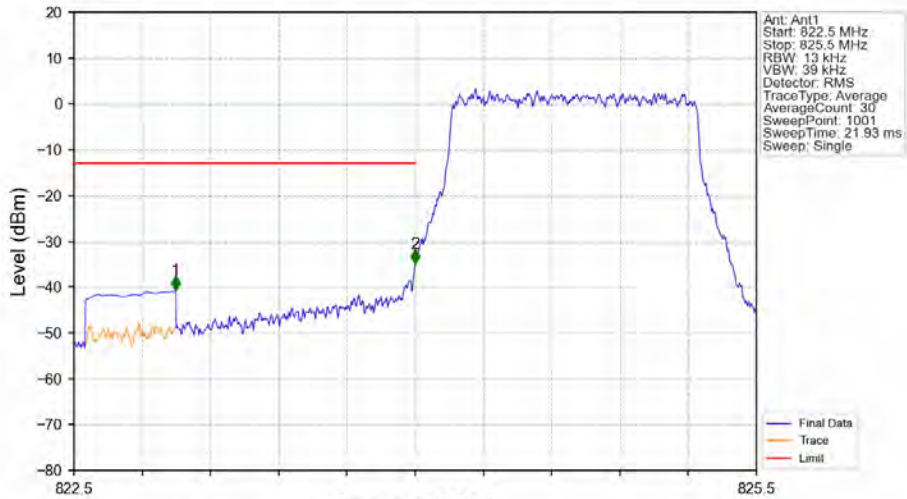




Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV

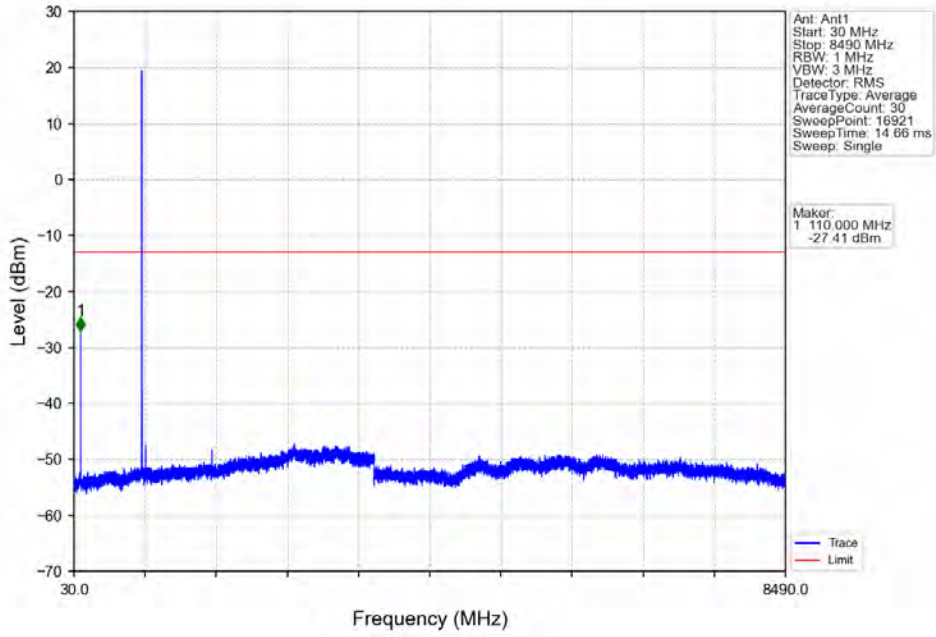


Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

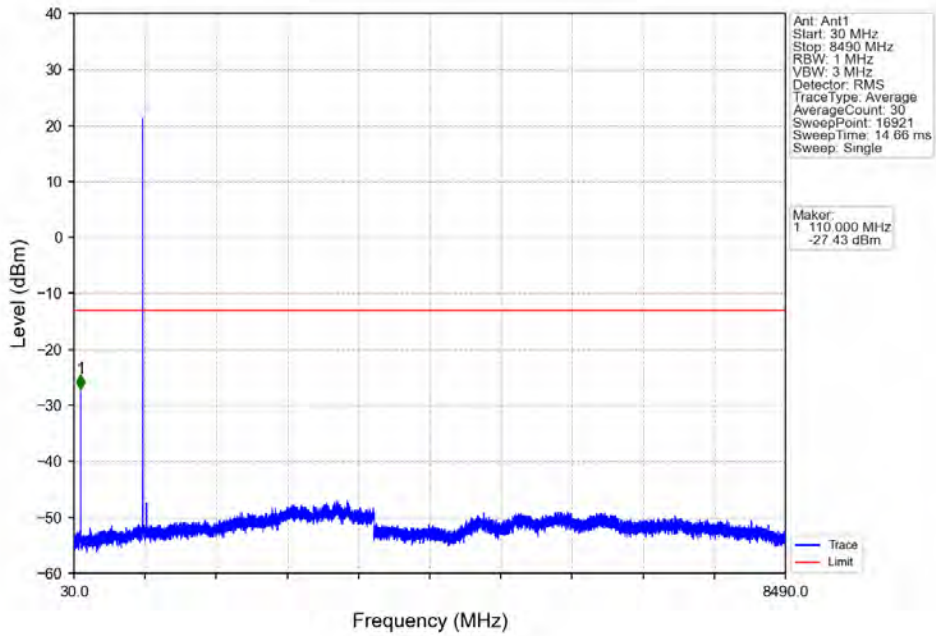


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-40.74	-13	Pass
823	824	0.013	/	2	824.000	-34.83	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

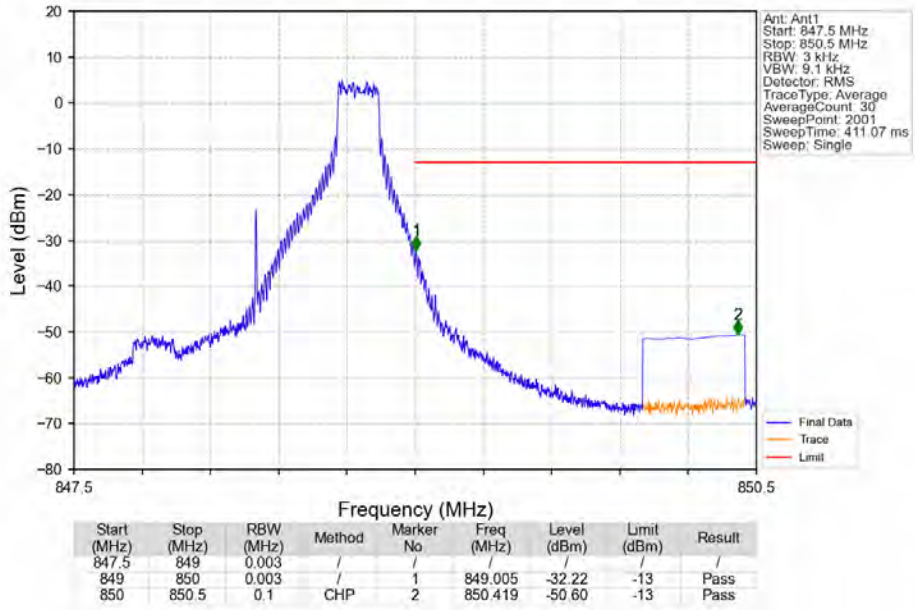
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



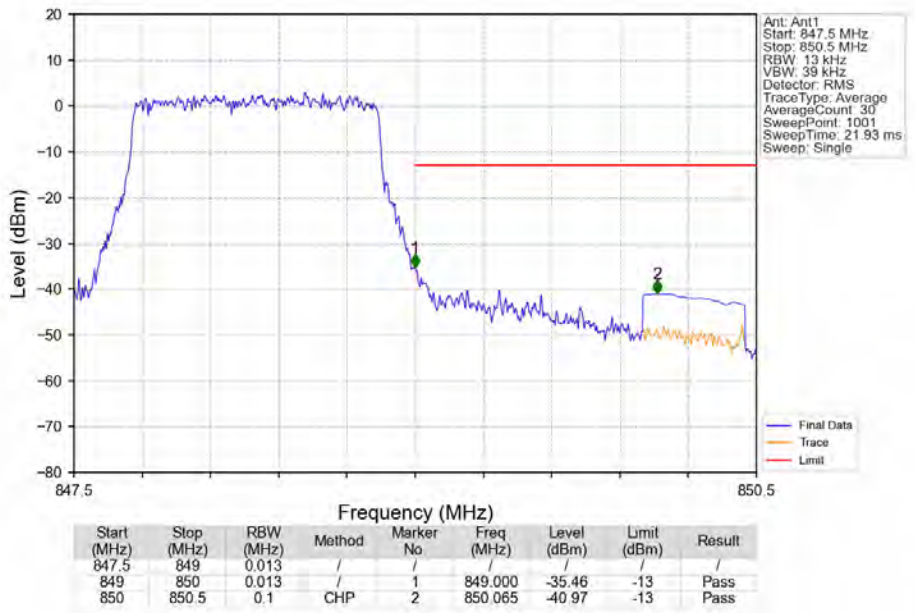
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



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



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

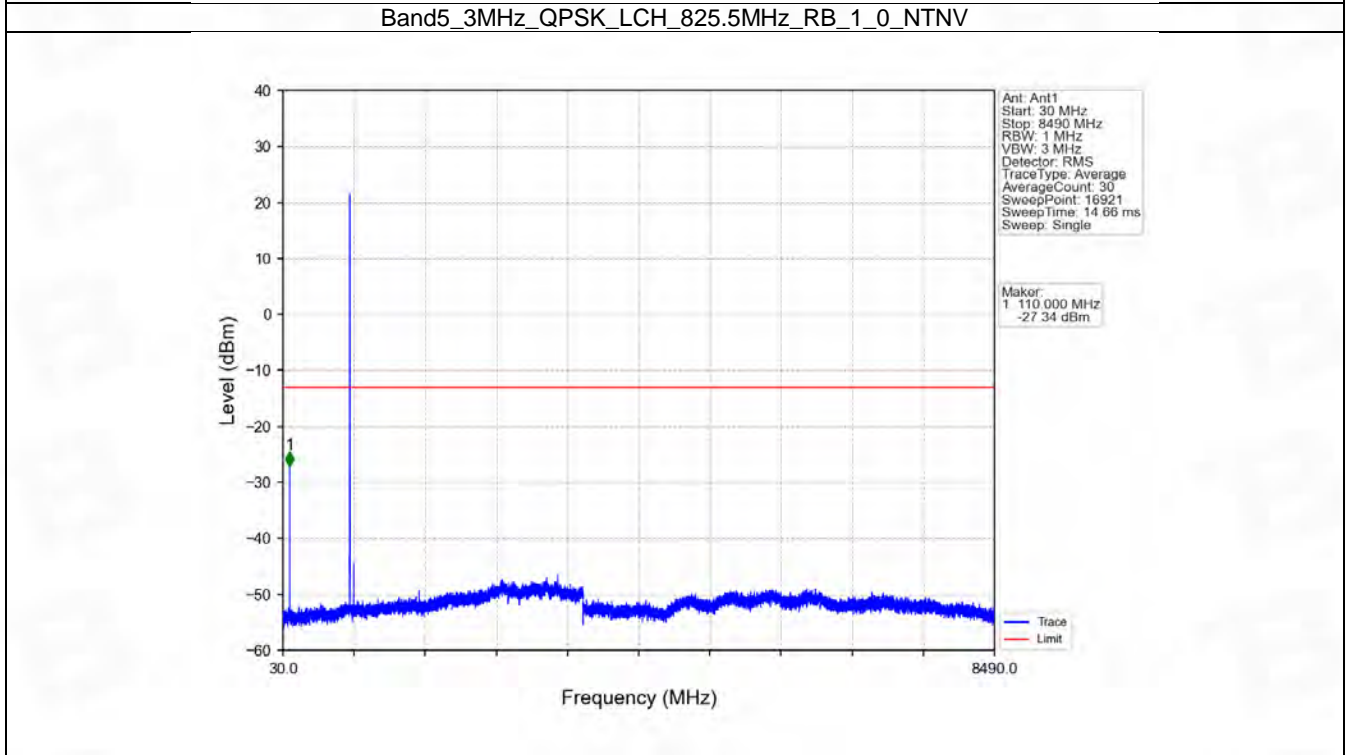
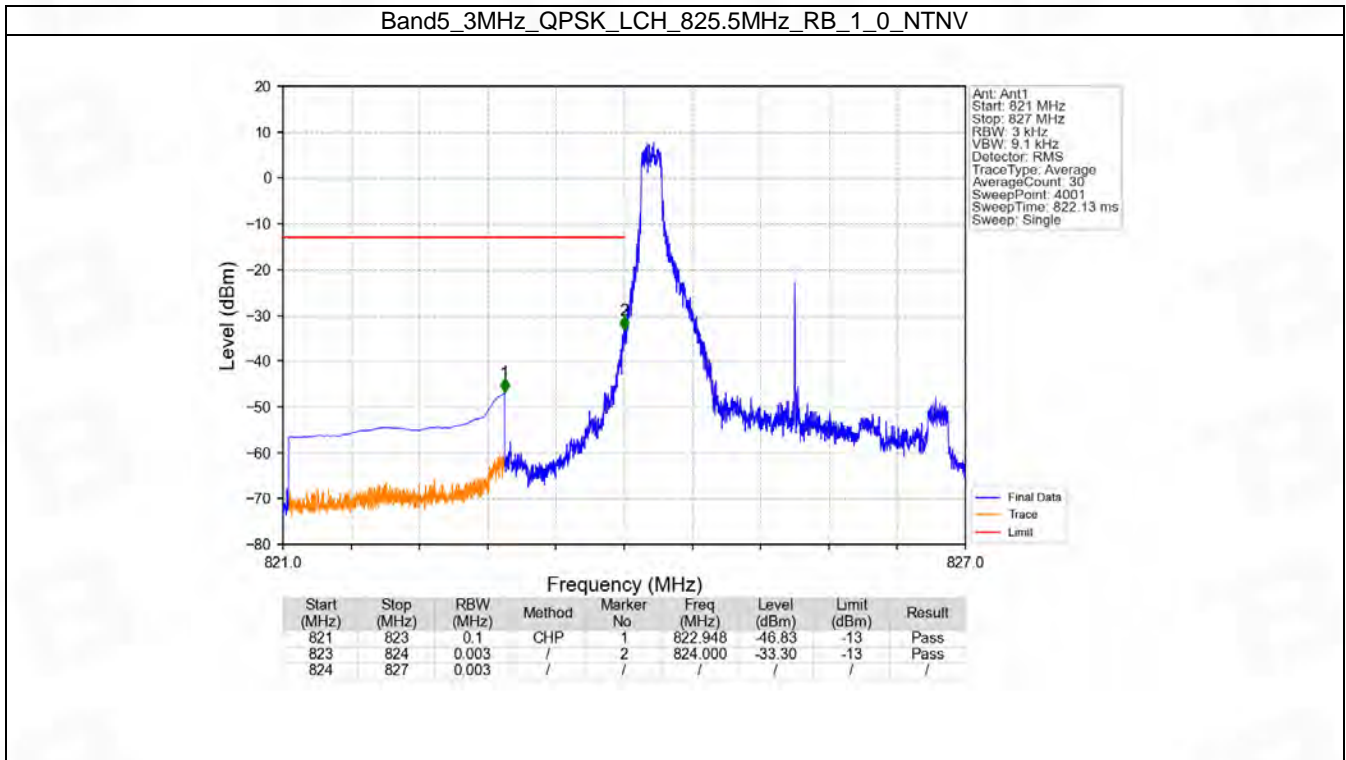


## 6.2 B5\_3MHz

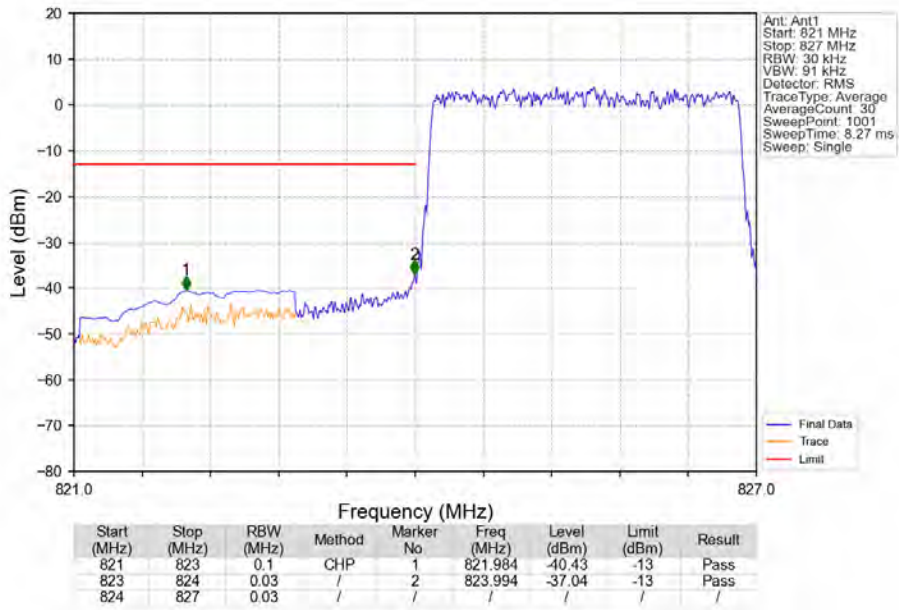
### 6.2.1 Test Result

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

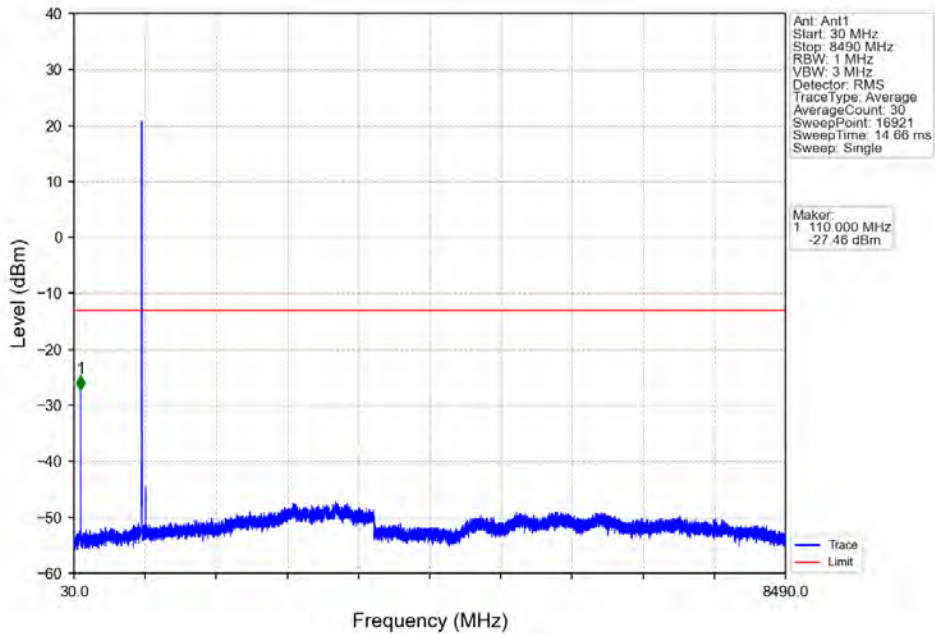
### 6.2.2 Test Graph



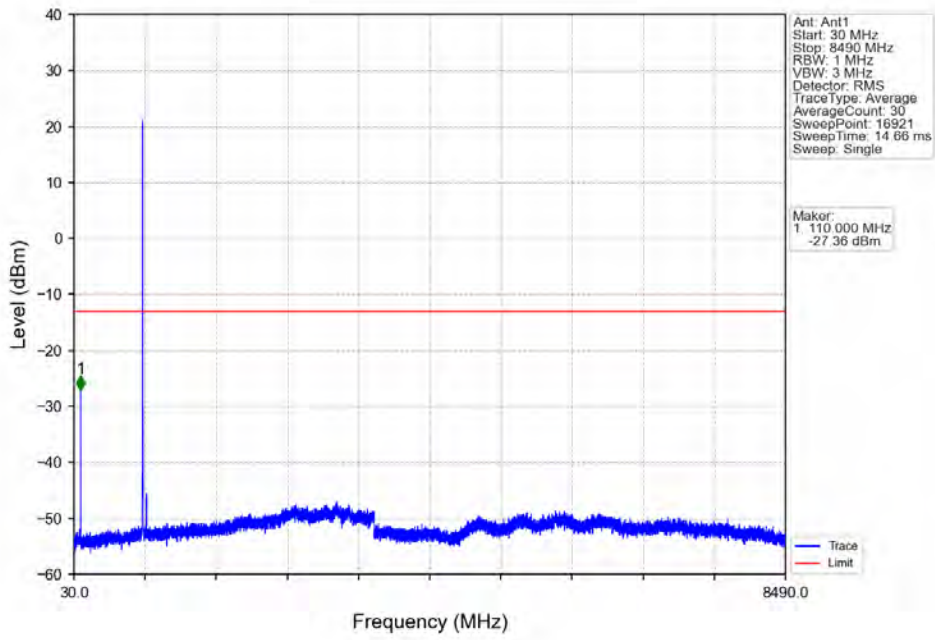
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



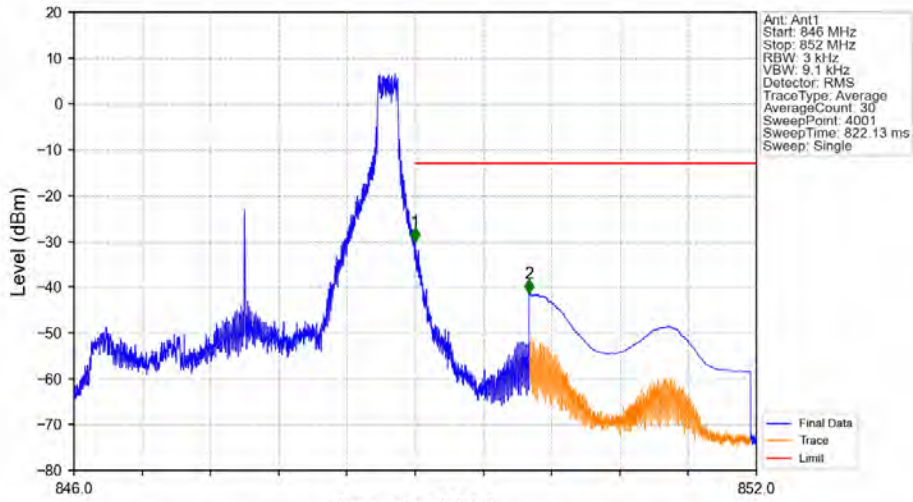
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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

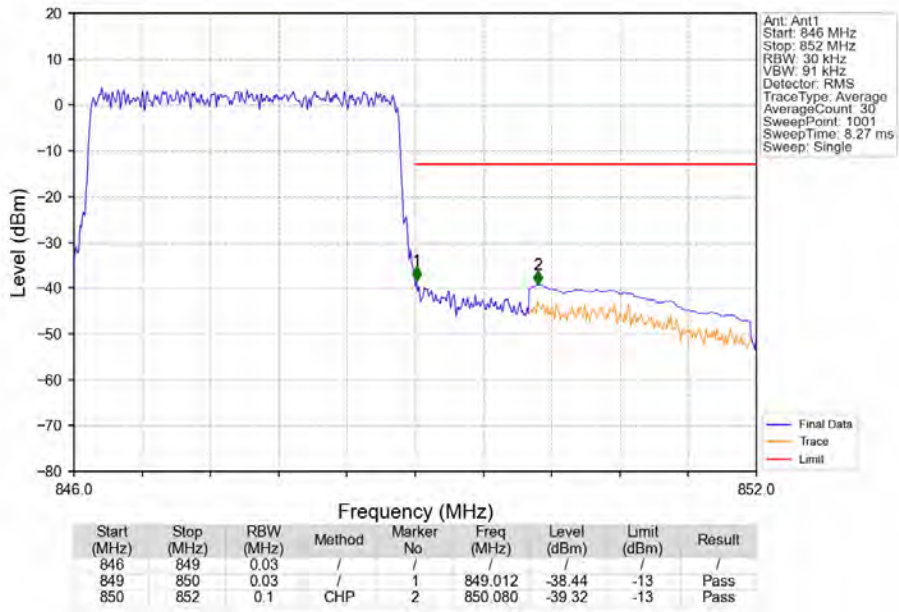


Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_14\_NTNV

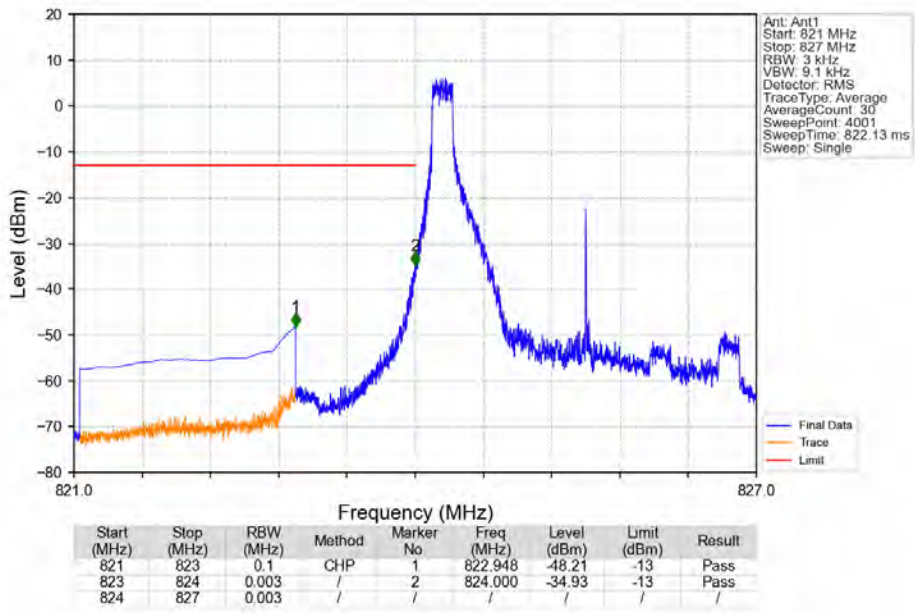


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	1	849.000	-30.06	-13	Pass
849	850	0.003	CHP	2	850.000	-41.40	-13	Pass

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

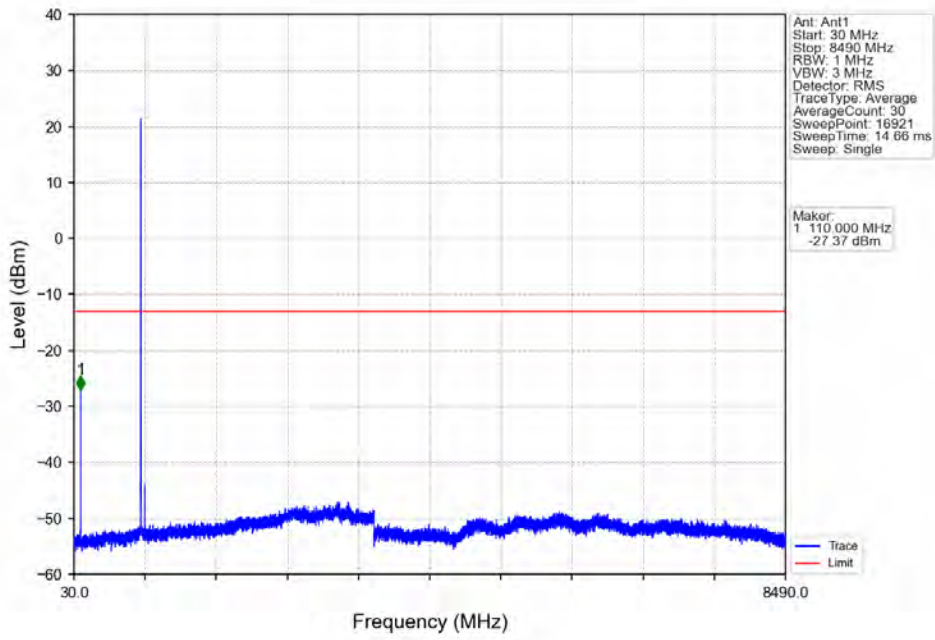


Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV

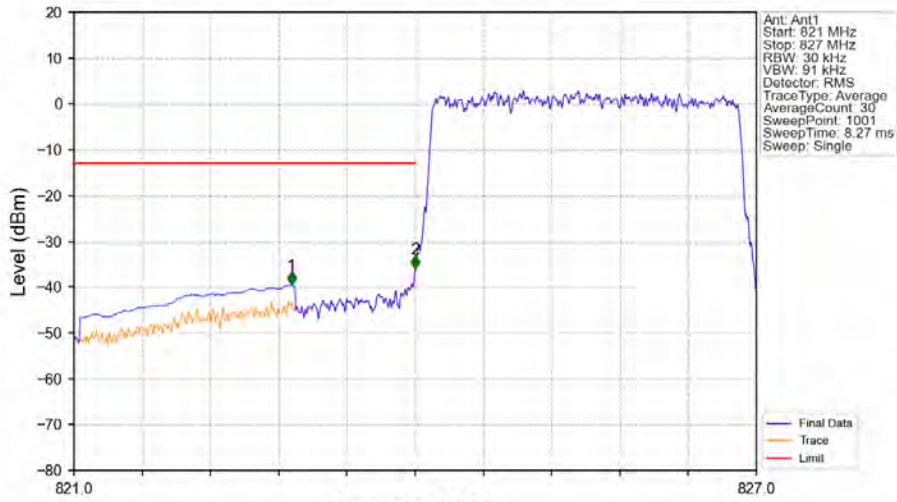




Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV

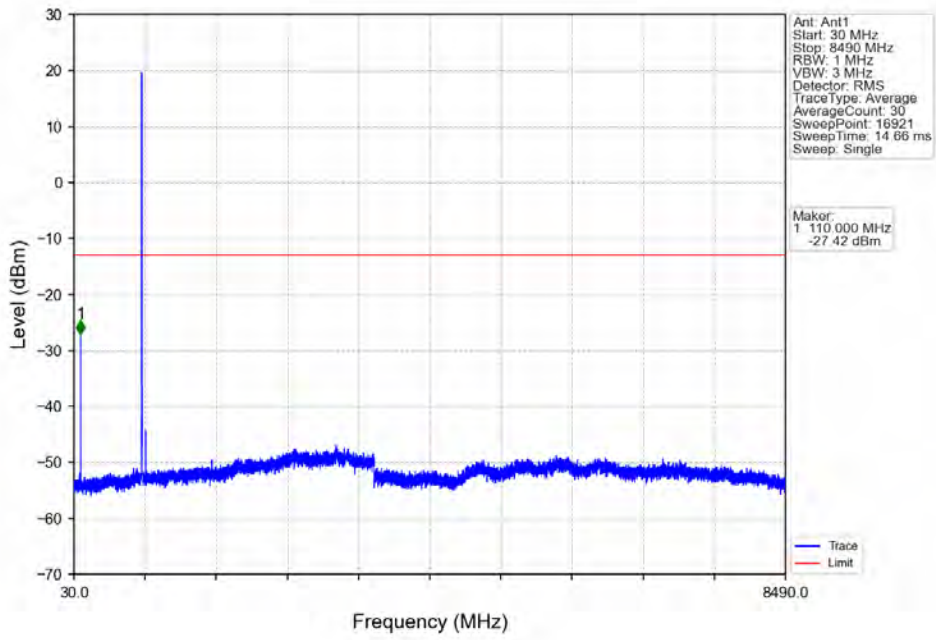


Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

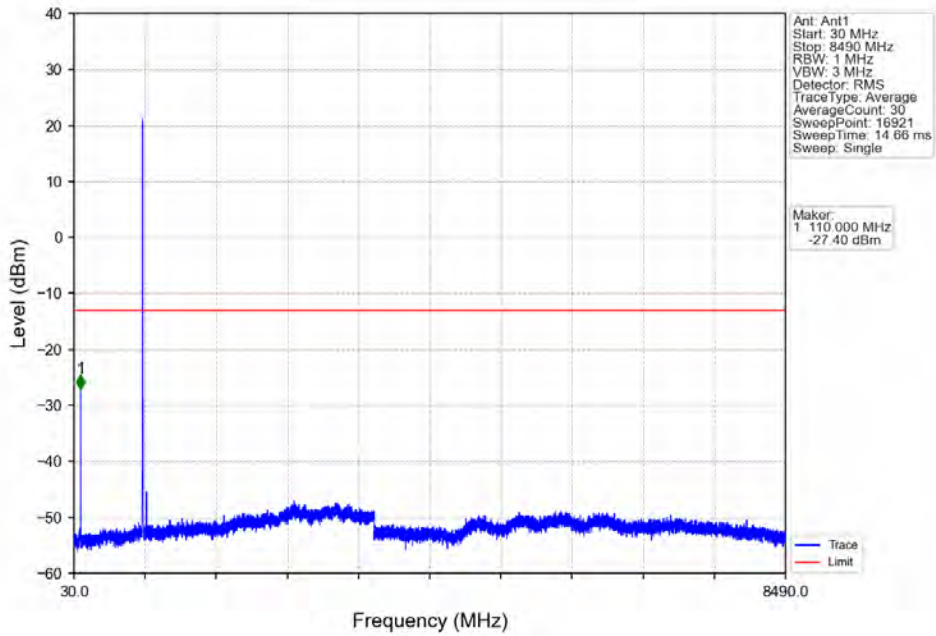


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.914	-39.57	-13	Pass
823	824	0.03	/	2	824.000	-36.03	-13	Pass
824	827	0.03	/	/	/	/	/	/

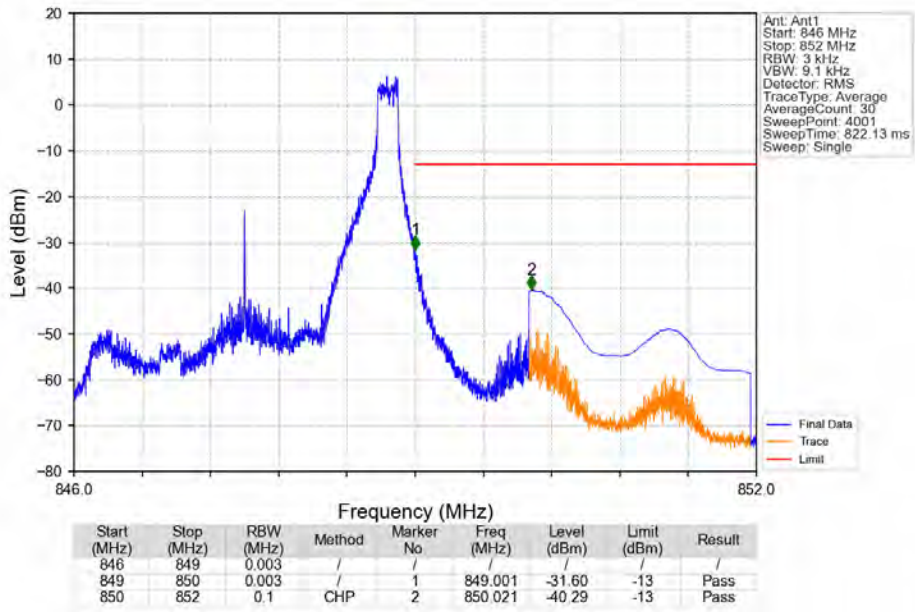
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



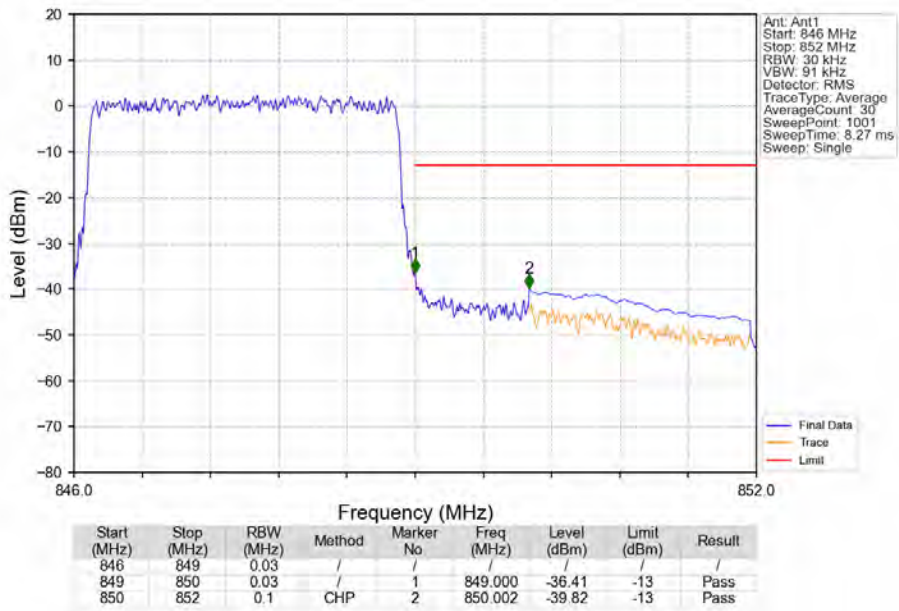
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



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



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

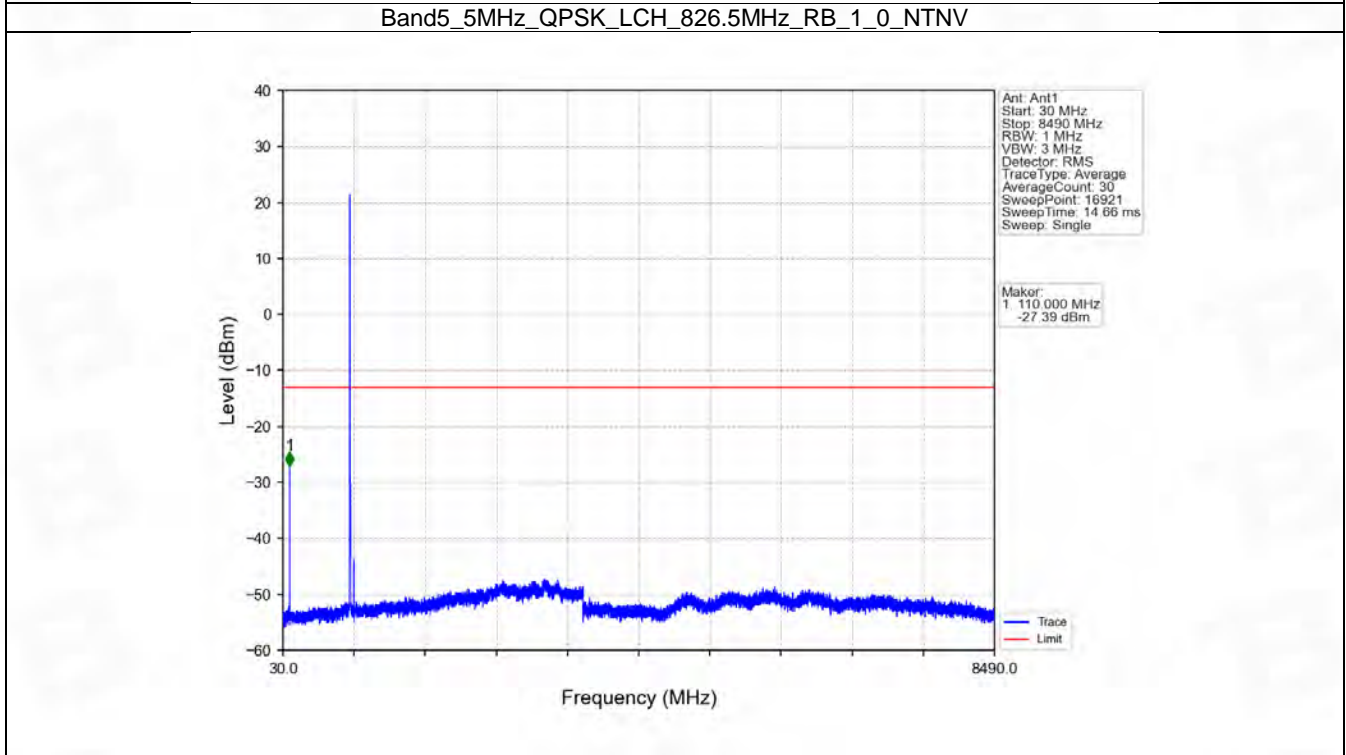
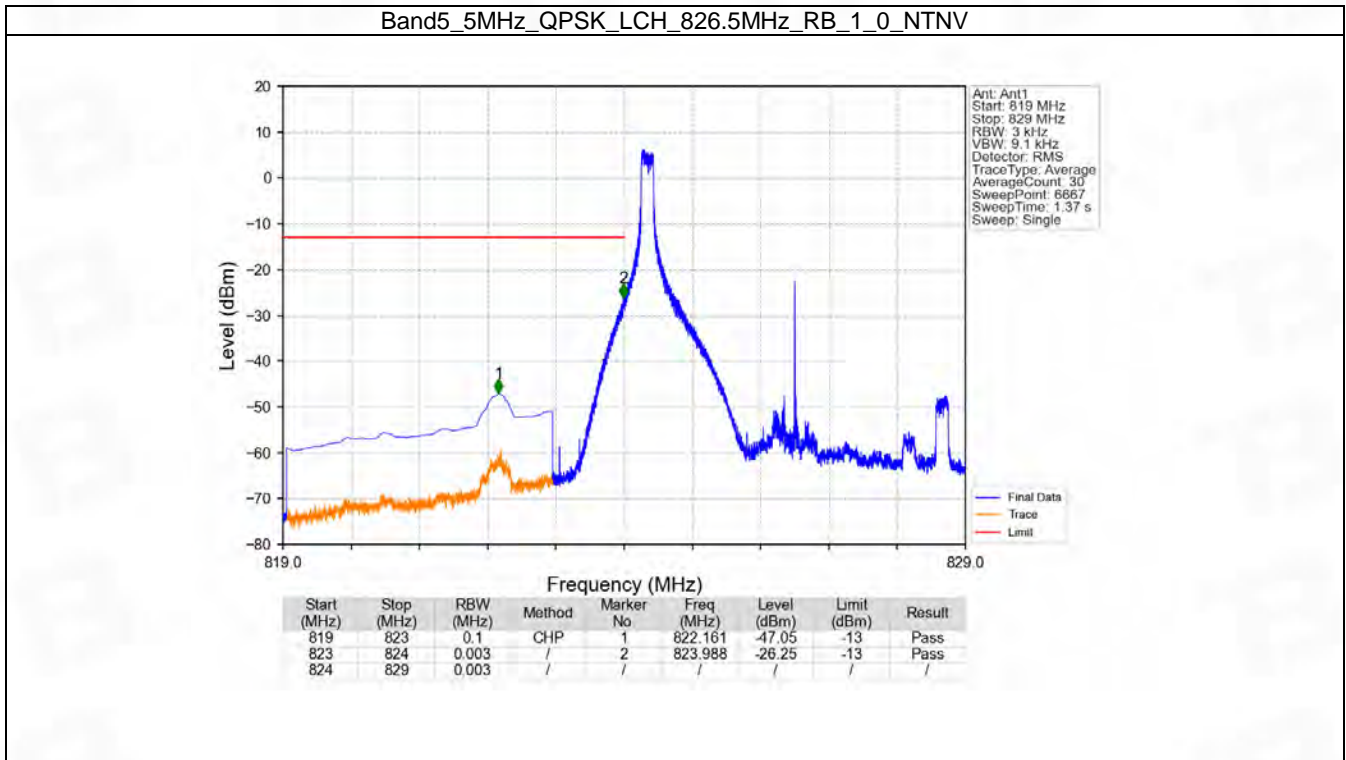


## 6.3 B5\_5MHz

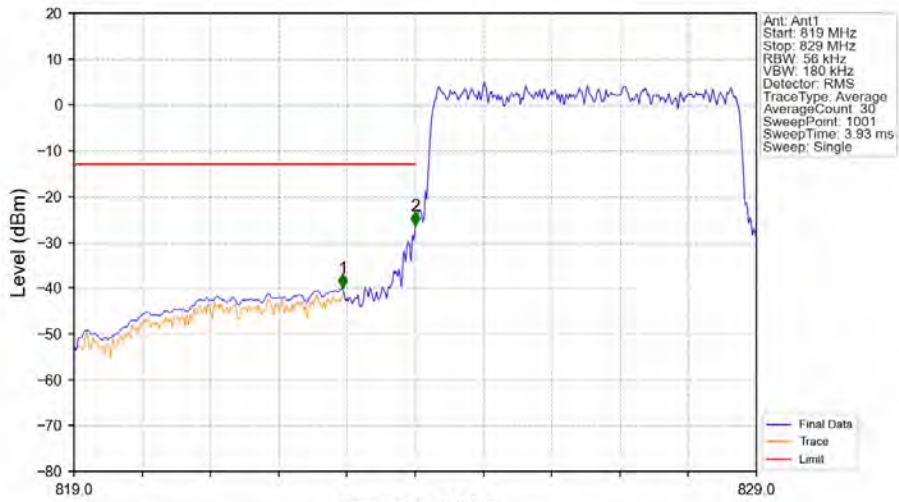
### 6.3.1 Test Result

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

### 6.3.2 Test Graph

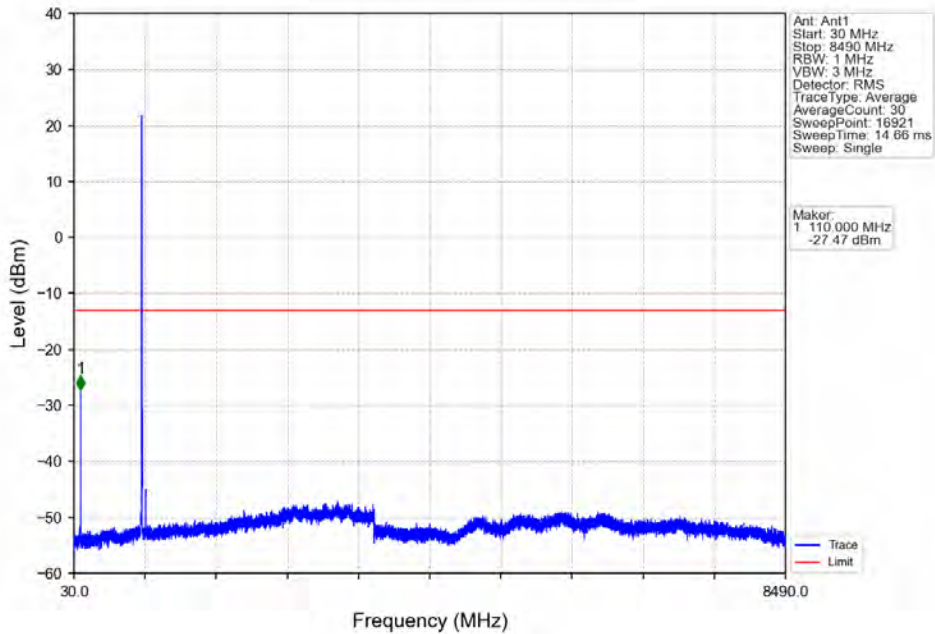


Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.940	-39.96	-13	Pass
823	824	0.056	/	2	824.000	-26.44	-13	Pass
824	829	0.056	/	/	/	/	/	/

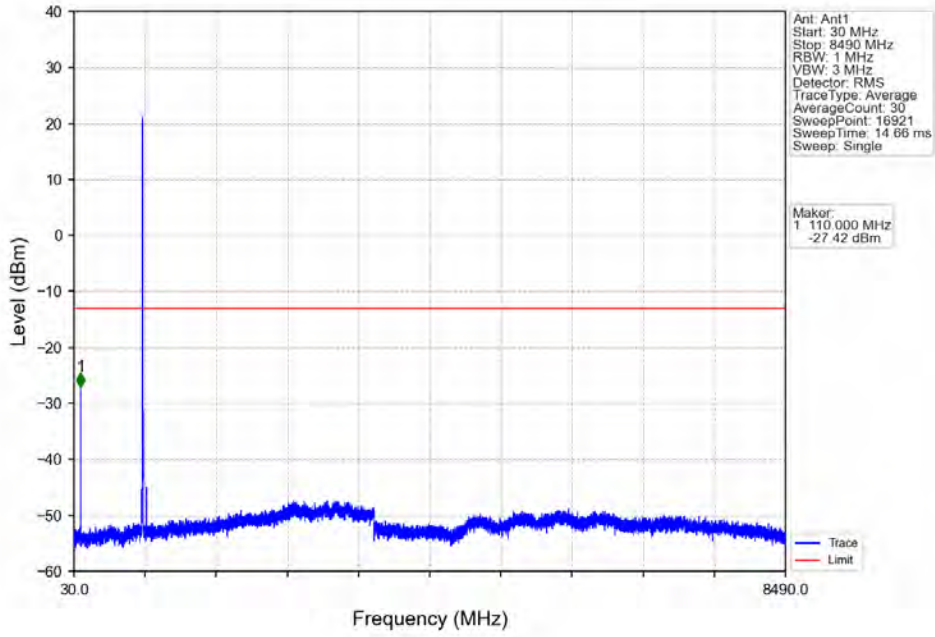
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



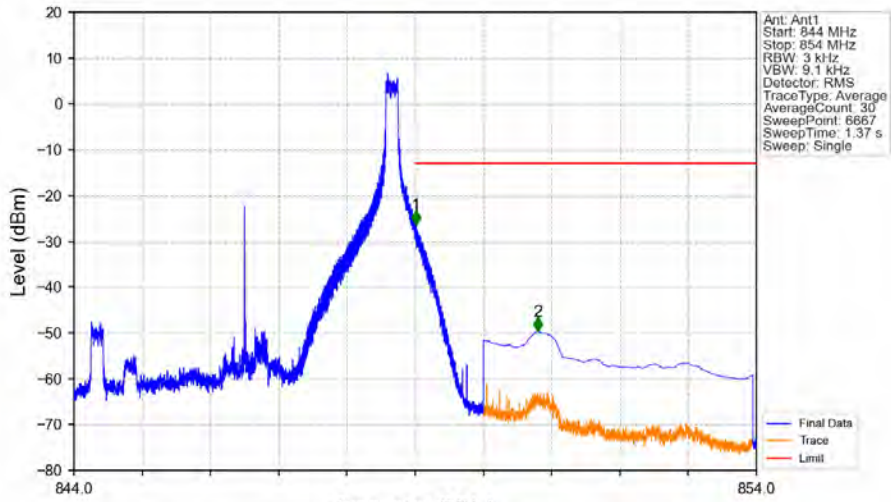
Ant: Ant1  
 Start: 30 MHz  
 Stop: 8490 MHz  
 RBW: 1 MHz  
 VBW: 3 MHz  
 Detector: RMS  
 Trace Type: Average  
 Average Count: 30  
 Sweep Point: 16921  
 Sweep Time: 14.66 ms  
 Sweep: Single

Marker:  
 1 110.000 MHz  
 -27.47 dBm

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

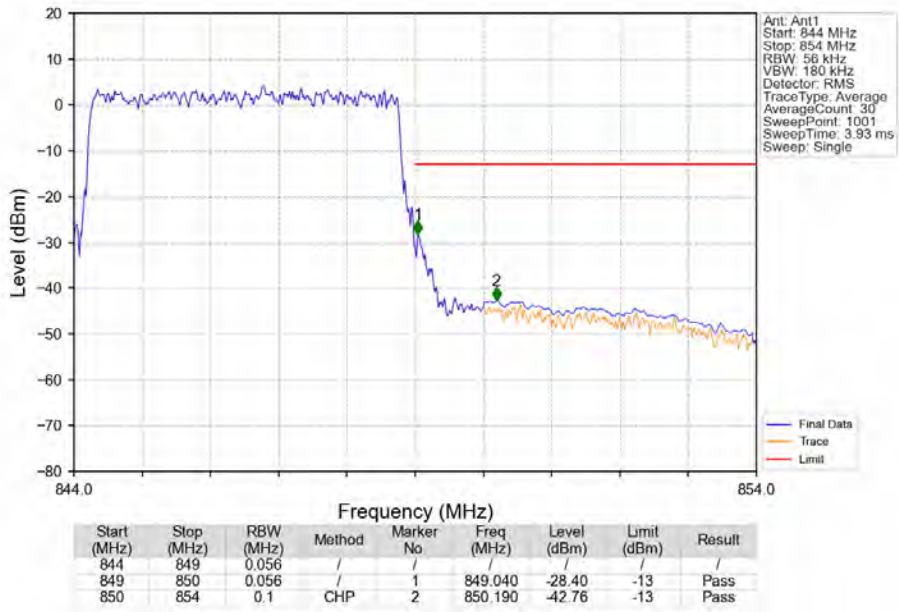


Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_24\_NTNV

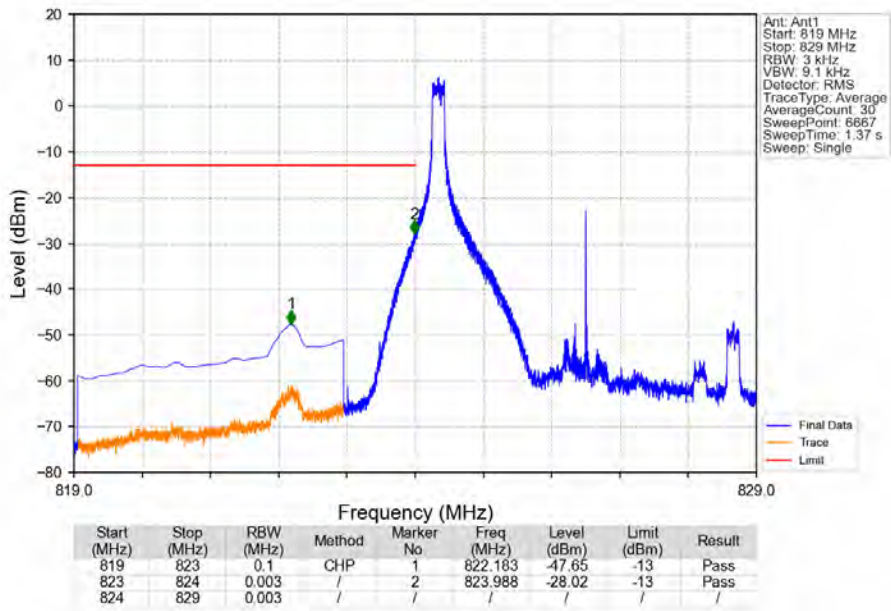


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.011	-26.38	-13	Pass
850	854	0.1	CHP	2	850.802	-49.66	-13	Pass

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

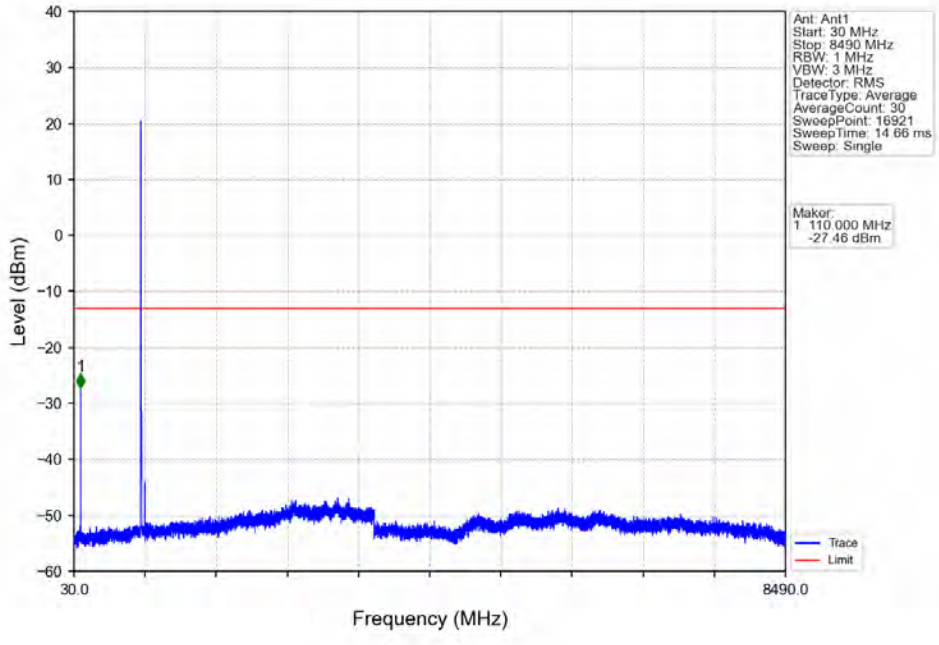


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

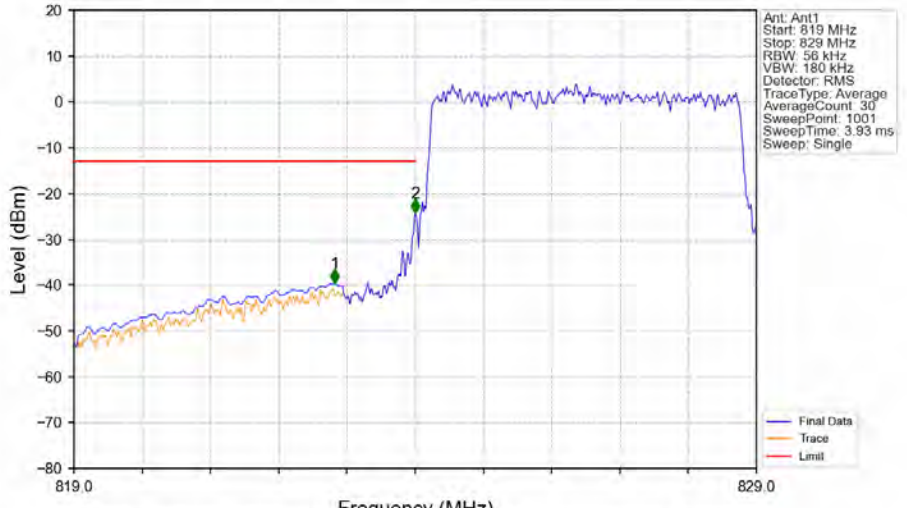




Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

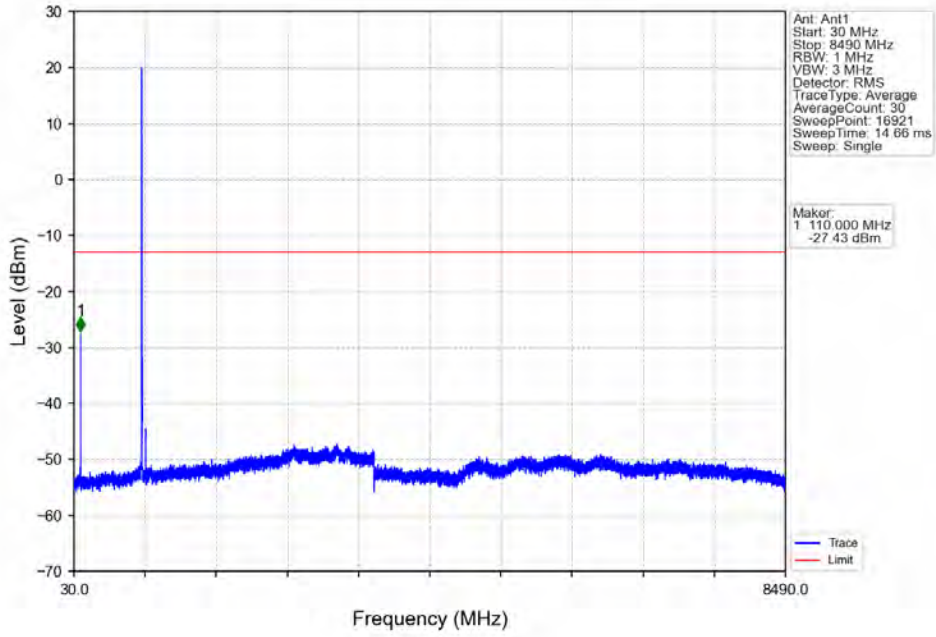


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

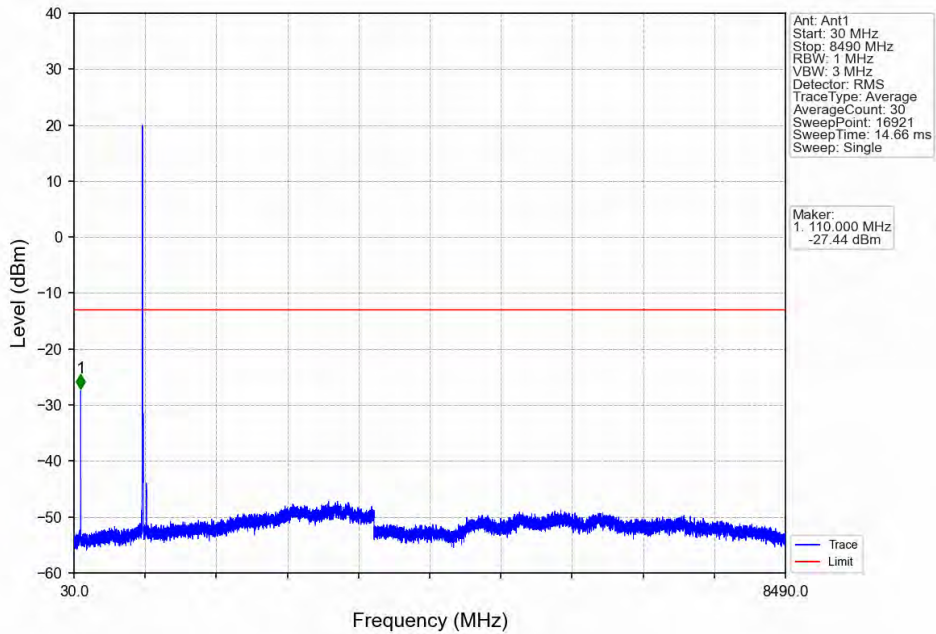


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.820	-39.64	-13	Pass
823	824	0.056	/	2	824.000	-24.35	-13	Pass
824	829	0.056	/	/	/	/	/	/

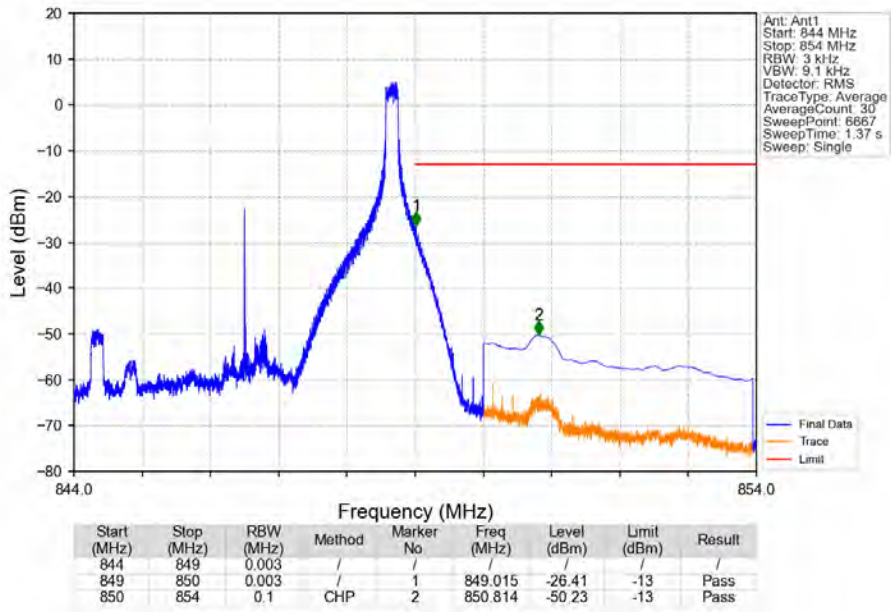
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



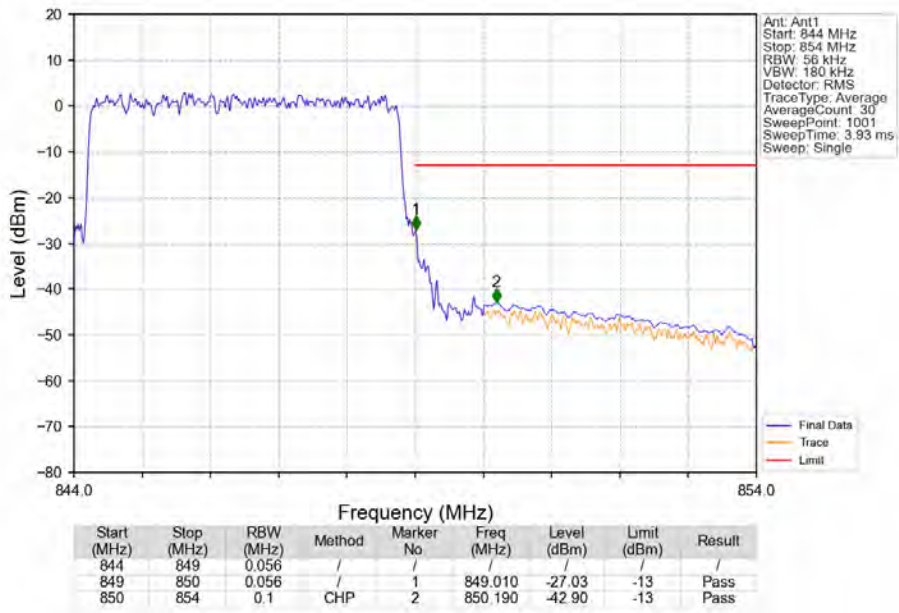
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



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



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

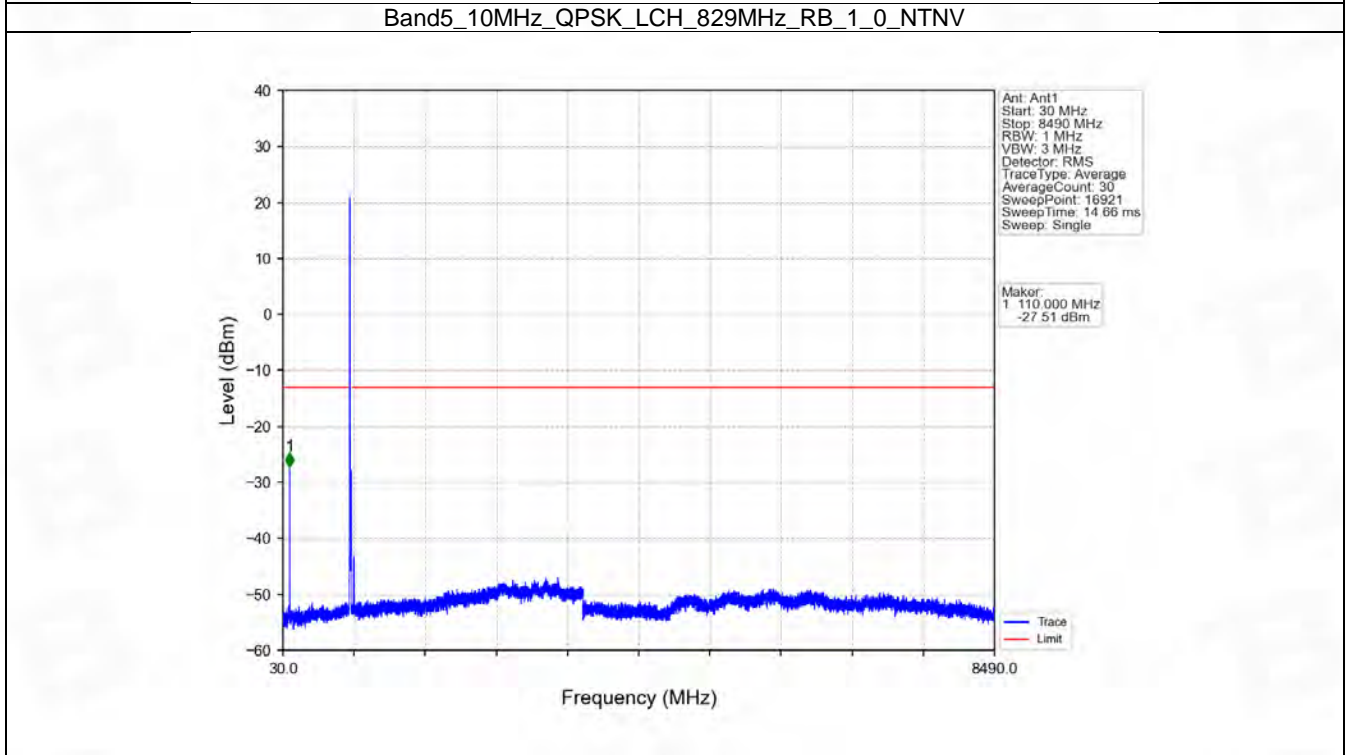
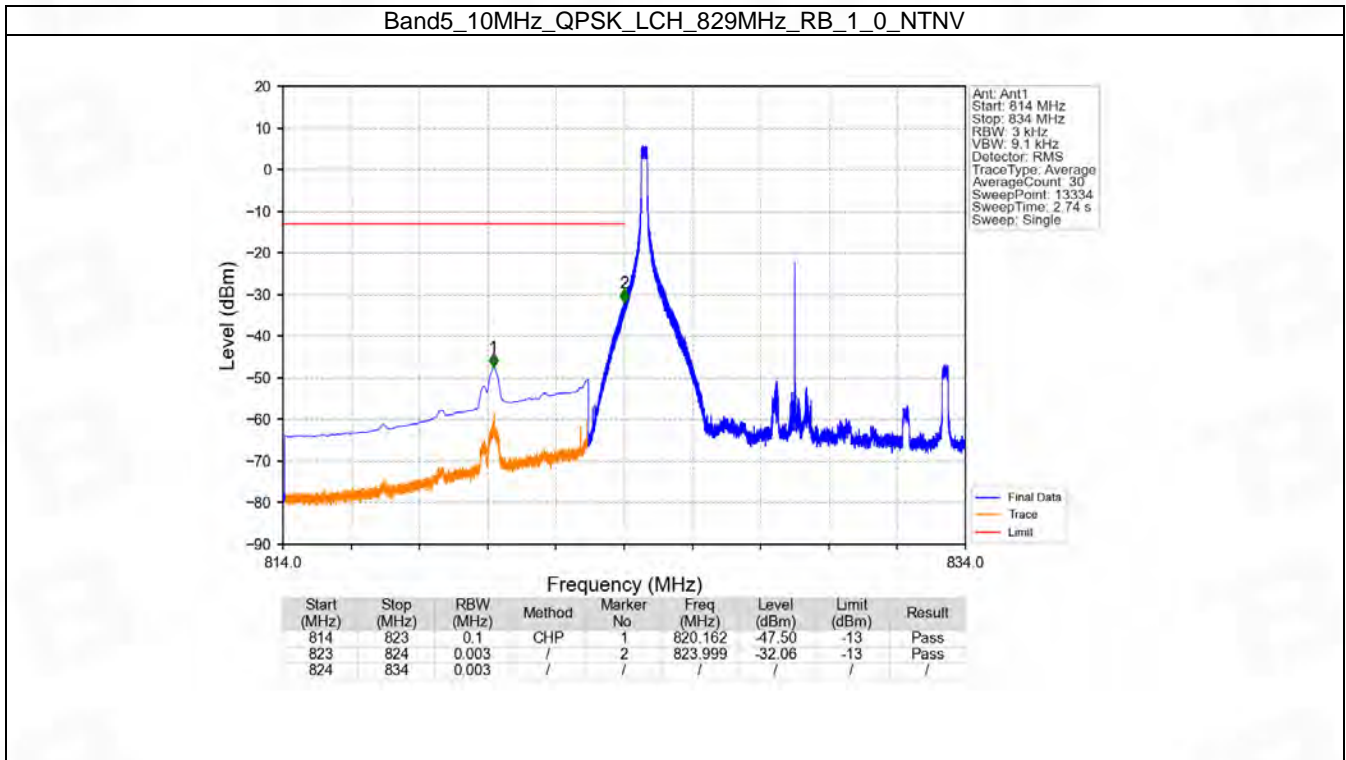


## 6.4 B5\_10MHz

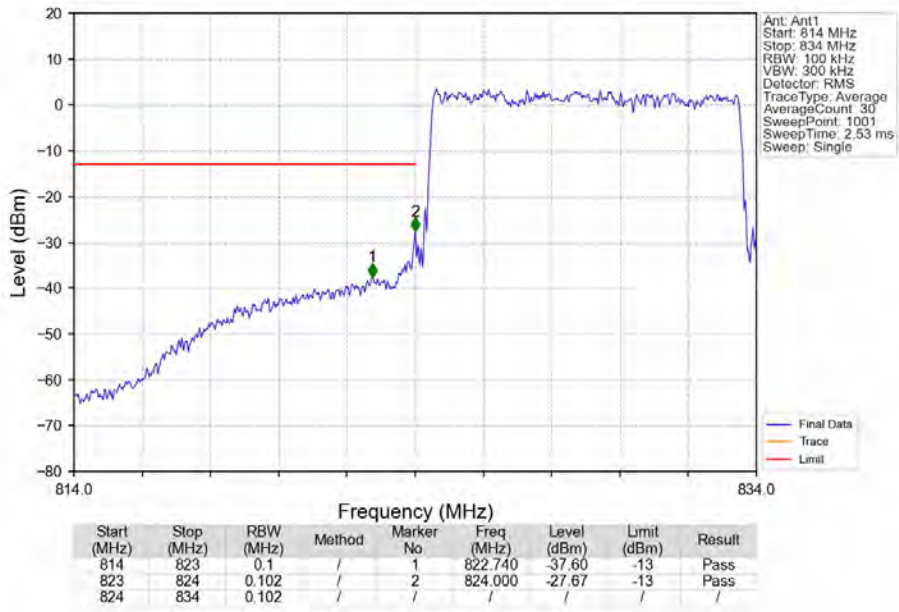
### 6.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		844	1	0	Refer To Test Graph	
				49	Refer To Test Graph	
			50	0	Refer To Test Graph	
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	
				49	Refer To Test Graph	
			50	0	Refer To Test Graph	

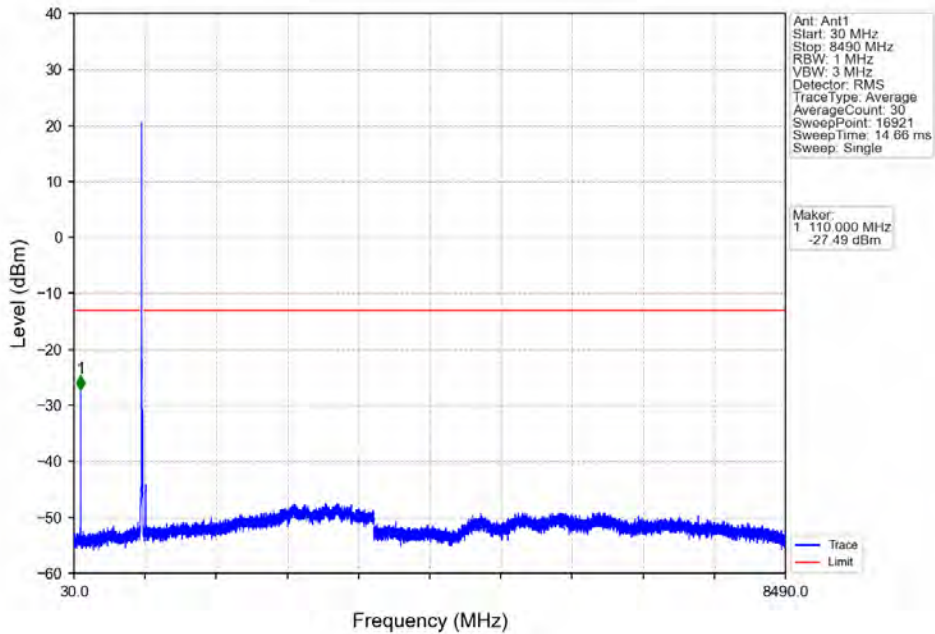
### 6.4.2 Test Graph



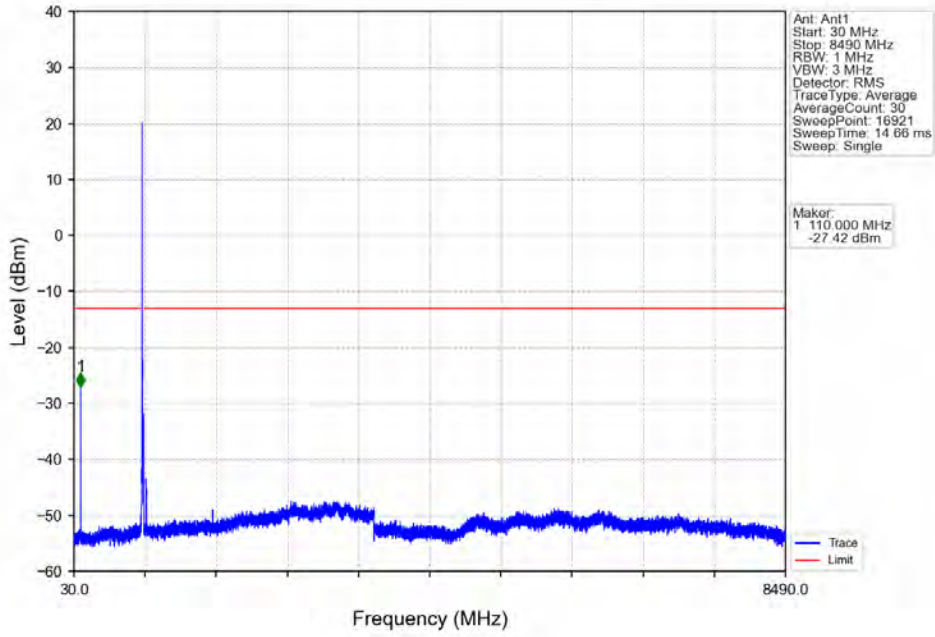
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



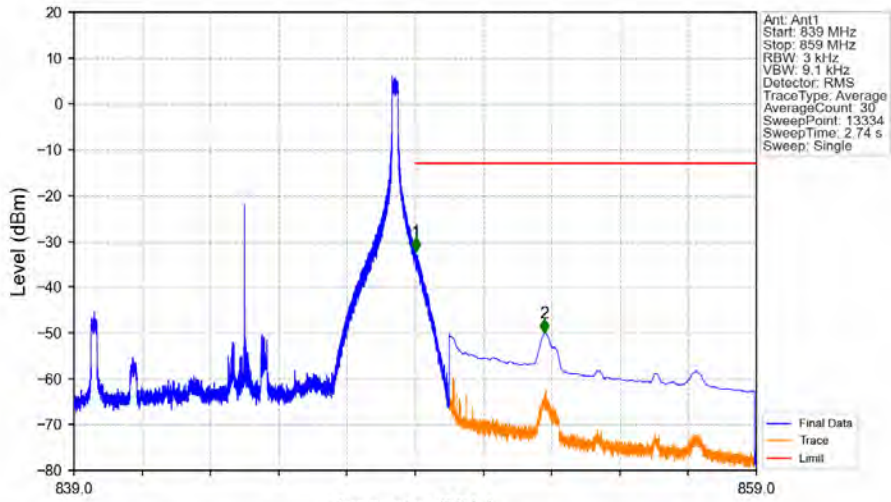
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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

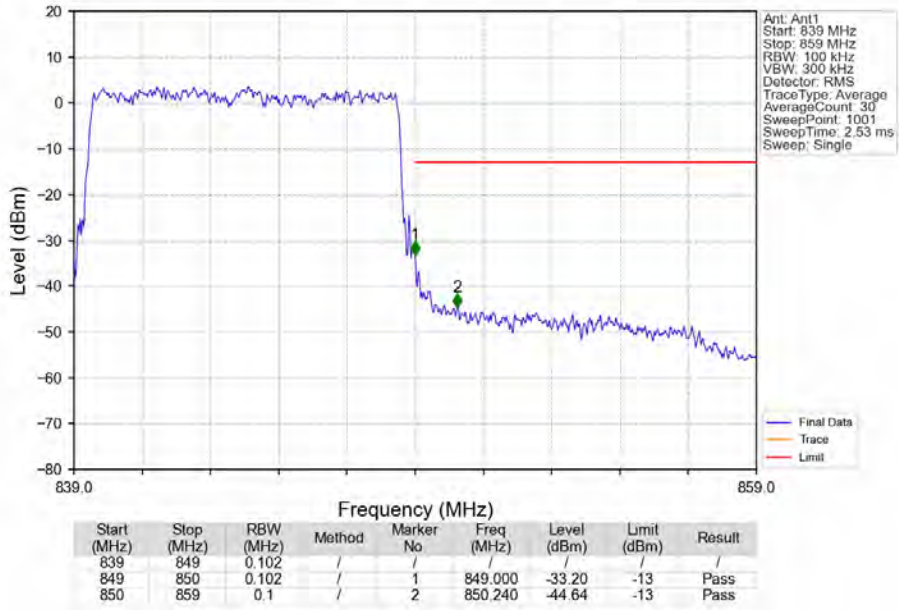


Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV

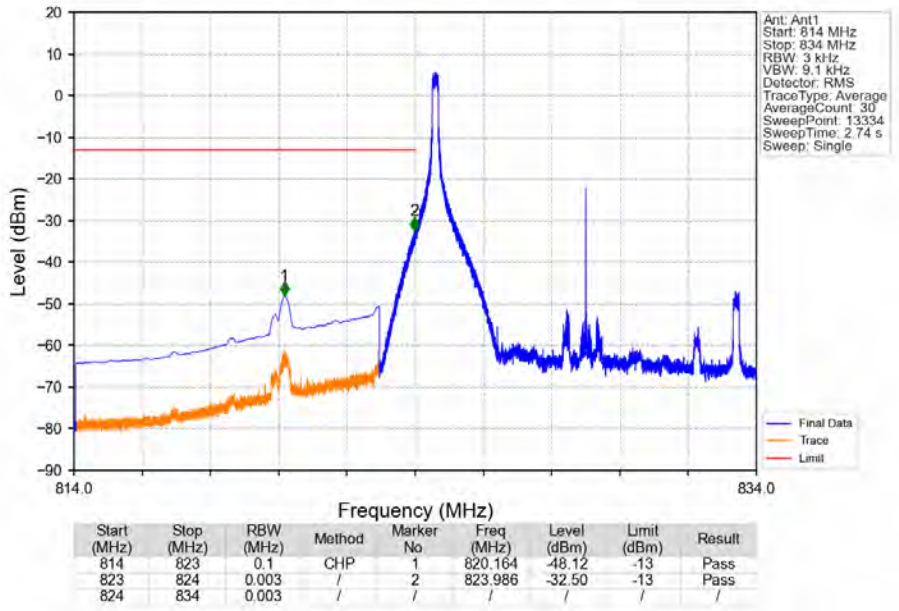


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	1	849.013	-32.18	-13	Pass
849	850	0.003	/	1	849.013	-32.18	-13	Pass
850	859	0.1	CHP	2	852.793	-49.99	-13	Pass

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

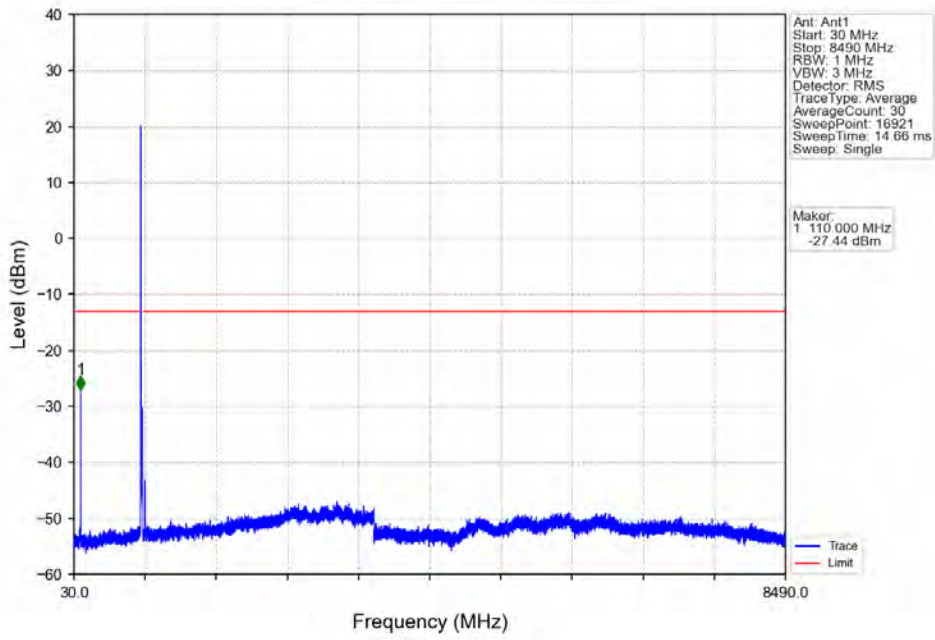


Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV

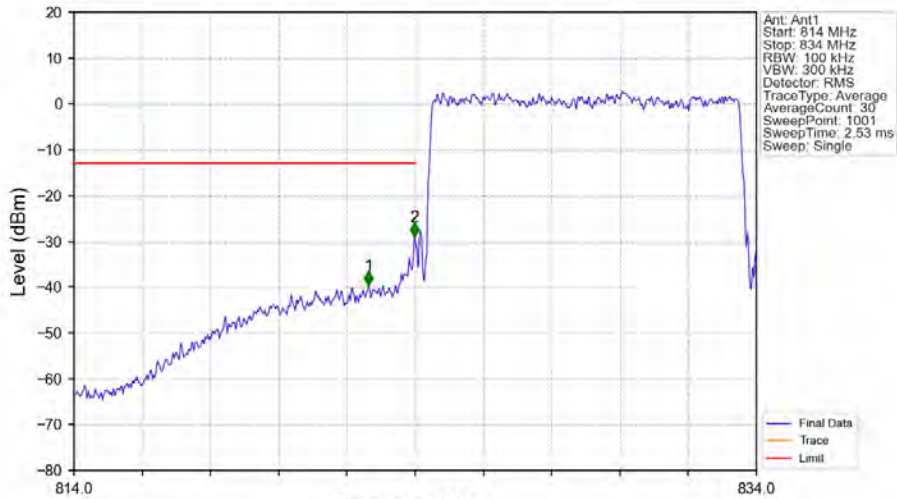




Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV

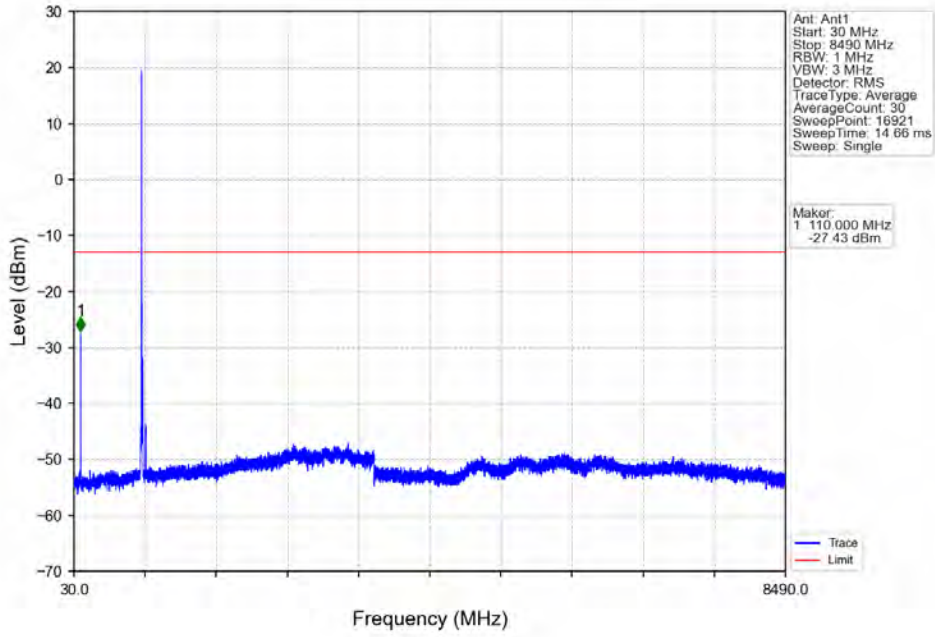


Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV

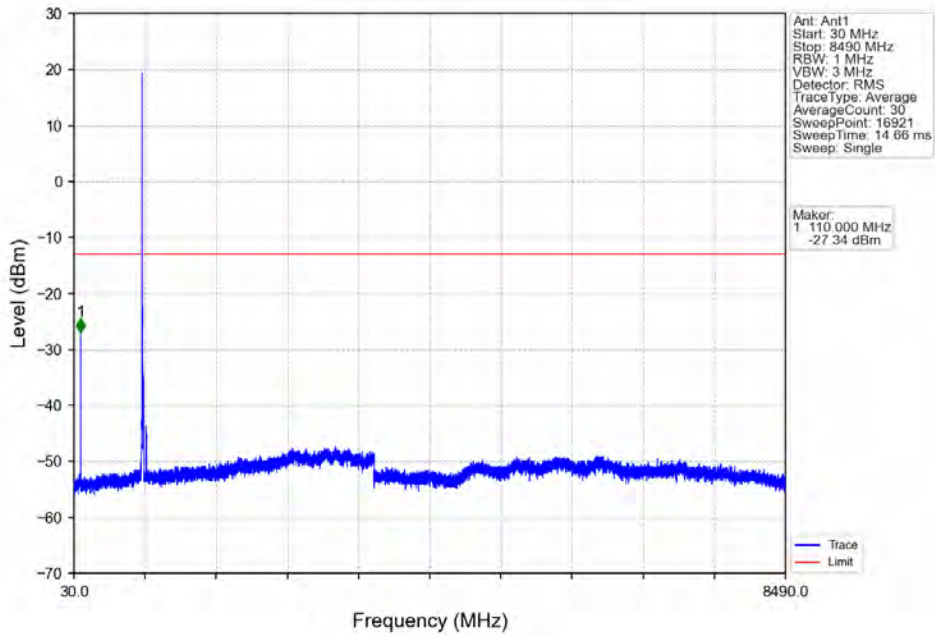


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.640	-39.59	-13	Pass
823	824	0.103	/	2	823.980	-29.03	-13	Pass
824	834	0.103	/	/	/	/	/	/

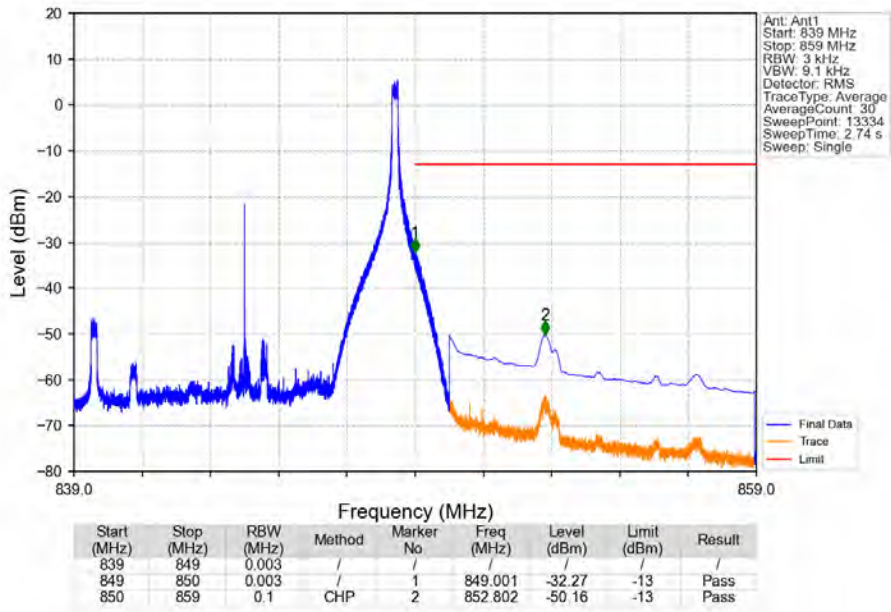
Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



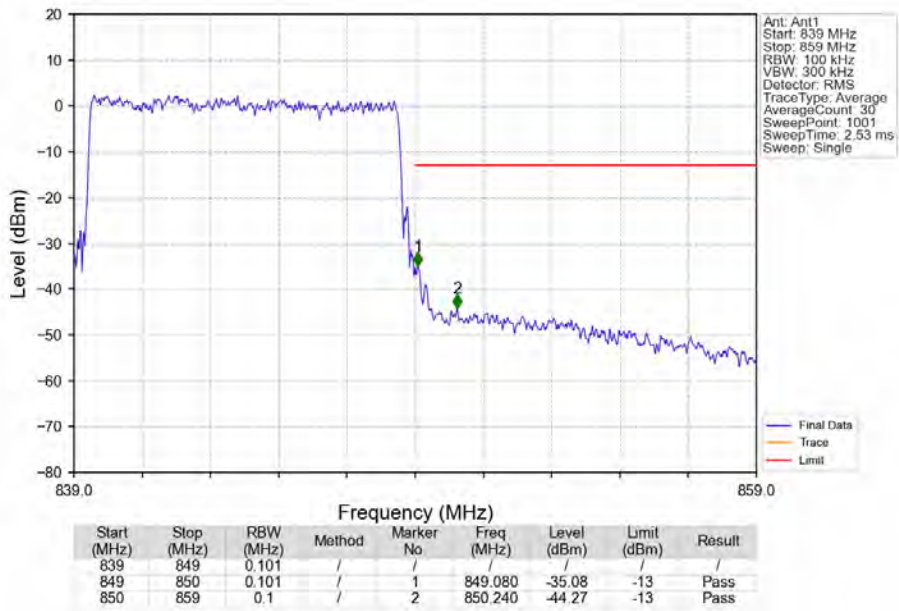
Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



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	0.1667	0.0132	ppm	1M12G7D	22H	22.22
5	1.4	824.7	848.3	0.1346	0.0128	ppm	1M11W7D	22H	21.29
5	3	825.5	847.5	0.1738	0.0165	ppm	2M73G7D	22H	22.40
5	3	825.5	847.5	0.1371	0.0132	ppm	2M73W7D	22H	21.37
5	5	826.5	846.5	0.1633	0.0127	ppm	4M58G7D	22H	22.13
5	5	826.5	846.5	0.1242	0.0136	ppm	4M58W7D	22H	20.94
5	10	829	844	0.1607	0.0126	ppm	9M10G7D	22H	22.06
5	10	829	844	0.1380	0.0132	ppm	9M08W7D	22H	21.40

### 7.2 Form731\_ERP

#### 7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	1.4	824.7	848.3	0.0504	0.0132	ppm	1M12G7D	22H	17.02
5	1.4	824.7	848.3	0.0406	0.0128	ppm	1M11W7D	22H	16.09
5	3	825.5	847.5	0.0525	0.0165	ppm	2M73G7D	22H	17.20
5	3	825.5	847.5	0.0414	0.0132	ppm	2M73W7D	22H	16.17
5	5	826.5	846.5	0.0493	0.0127	ppm	4M58G7D	22H	16.93
5	5	826.5	846.5	0.0375	0.0136	ppm	4M58W7D	22H	15.74
5	10	829	844	0.0485	0.0126	ppm	9M10G7D	22H	16.86
5	10	829	844	0.0417	0.0132	ppm	9M08W7D	22H	16.20