

# 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	23.67	-0.71	20.81	<=38.45	Pass		
			2	23.77	-0.71	20.91	<=38.45	Pass		
			5	23.70	-0.71	20.84	<=38.45	Pass		
		3	0	23.76	-0.71	20.90	<=38.45	Pass		
			2	23.75	-0.71	20.89	<=38.45	Pass		
			3	23.73	-0.71	20.87	<=38.45	Pass		
		6	0	22.76	-0.71	19.90	<=38.45	Pass		
		836.5	1	0	23.78	-0.71	20.92	<=38.45	Pass	
				2	23.89	-0.71	21.03	<=38.45	Pass	
	5			23.76	-0.71	20.90	<=38.45	Pass		
	3		0	23.72	-0.71	20.86	<=38.45	Pass		
			2	23.75	-0.71	20.89	<=38.45	Pass		
			3	23.72	-0.71	20.86	<=38.45	Pass		
	6		0	22.83	-0.71	19.97	<=38.45	Pass		
	848.3		1	0	23.75	-0.71	20.89	<=38.45	Pass	
				2	23.87	-0.71	21.01	<=38.45	Pass	
		5		23.74	-0.71	20.88	<=38.45	Pass		
		3	0	23.66	-0.71	20.80	<=38.45	Pass		
			2	23.71	-0.71	20.85	<=38.45	Pass		
			3	23.64	-0.71	20.78	<=38.45	Pass		
		6	0	22.85	-0.71	19.99	<=38.45	Pass		
		16QAM	824.7	1	0	22.58	-0.71	19.72	<=38.45	Pass
					2	22.68	-0.71	19.82	<=38.45	Pass
	5				22.57	-0.71	19.71	<=38.45	Pass	
	3			0	22.85	-0.71	19.99	<=38.45	Pass	
				2	22.88	-0.71	20.02	<=38.45	Pass	
				3	22.82	-0.71	19.96	<=38.45	Pass	
6	0			21.74	-0.71	18.88	<=38.45	Pass		
836.5	1			0	22.63	-0.71	19.77	<=38.45	Pass	
				2	22.75	-0.71	19.89	<=38.45	Pass	
			5	22.68	-0.71	19.82	<=38.45	Pass		
	3		0	22.67	-0.71	19.81	<=38.45	Pass		
			2	22.72	-0.71	19.86	<=38.45	Pass		
			3	22.67	-0.71	19.81	<=38.45	Pass		
	6		0	21.69	-0.71	18.83	<=38.45	Pass		
	848.3		1	0	22.67	-0.71	19.81	<=38.45	Pass	
				2	22.79	-0.71	19.93	<=38.45	Pass	
5				22.59	-0.71	19.73	<=38.45	Pass		
3			0	22.31	-0.71	19.45	<=38.45	Pass		
			2	22.25	-0.71	19.39	<=38.45	Pass		
			3	22.22	-0.71	19.36	<=38.45	Pass		
6			0	21.45	-0.71	18.59	<=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	23.80	-0.71	20.94	<=38.45	Pass		
			7	23.97	-0.71	21.11	<=38.45	Pass		
			14	23.87	-0.71	21.01	<=38.45	Pass		
		8	0	22.78	-0.71	19.92	<=38.45	Pass		
			4	22.79	-0.71	19.93	<=38.45	Pass		
			7	22.79	-0.71	19.93	<=38.45	Pass		
		15	0	22.69	-0.71	19.83	<=38.45	Pass		
		836.5	1	0	23.74	-0.71	20.88	<=38.45	Pass	
				7	23.55	-0.71	20.69	<=38.45	Pass	
	14			23.24	-0.71	20.38	<=38.45	Pass		
	8		0	22.22	-0.71	19.36	<=38.45	Pass		
			4	22.31	-0.71	19.45	<=38.45	Pass		
			7	22.22	-0.71	19.36	<=38.45	Pass		
	15		0	22.21	-0.71	19.35	<=38.45	Pass		
	847.5		1	0	23.34	-0.71	20.48	<=38.45	Pass	
				7	23.41	-0.71	20.55	<=38.45	Pass	
		14		23.27	-0.71	20.41	<=38.45	Pass		
		8	0	22.25	-0.71	19.39	<=38.45	Pass		
			4	22.29	-0.71	19.43	<=38.45	Pass		
			7	22.23	-0.71	19.37	<=38.45	Pass		
		15	0	22.17	-0.71	19.31	<=38.45	Pass		
		16QAM	825.5	1	0	22.69	-0.71	19.83	<=38.45	Pass
					7	22.86	-0.71	20.00	<=38.45	Pass
	14				22.41	-0.71	19.55	<=38.45	Pass	
8	0			21.41	-0.71	18.55	<=38.45	Pass		
	4			21.47	-0.71	18.61	<=38.45	Pass		
	7			21.38	-0.71	18.52	<=38.45	Pass		
15	0			21.28	-0.71	18.42	<=38.45	Pass		
836.5	1			0	22.33	-0.71	19.47	<=38.45	Pass	
				7	22.47	-0.71	19.61	<=38.45	Pass	
			14	22.35	-0.71	19.49	<=38.45	Pass		
	8		0	21.16	-0.71	18.30	<=38.45	Pass		
			4	21.27	-0.71	18.41	<=38.45	Pass		
			7	21.21	-0.71	18.35	<=38.45	Pass		
	15		0	21.19	-0.71	18.33	<=38.45	Pass		
	847.5		1	0	22.58	-0.71	19.72	<=38.45	Pass	
				7	22.67	-0.71	19.81	<=38.45	Pass	
14				22.54	-0.71	19.68	<=38.45	Pass		
8			0	21.32	-0.71	18.46	<=38.45	Pass		
			4	21.38	-0.71	18.52	<=38.45	Pass		
			7	21.32	-0.71	18.46	<=38.45	Pass		
15			0	21.22	-0.71	18.36	<=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	23.65	-0.71	20.79	<=38.45	Pass		
			13	23.81	-0.71	20.95	<=38.45	Pass		
			24	23.75	-0.71	20.89	<=38.45	Pass		
		12	0	22.66	-0.71	19.80	<=38.45	Pass		
			6	22.45	-0.71	19.59	<=38.45	Pass		
			13	22.17	-0.71	19.31	<=38.45	Pass		
		25	0	22.19	-0.71	19.33	<=38.45	Pass		
		836.5	1	0	23.13	-0.71	20.27	<=38.45	Pass	
				13	23.24	-0.71	20.38	<=38.45	Pass	
	24			23.12	-0.71	20.26	<=38.45	Pass		
	12		0	22.11	-0.71	19.25	<=38.45	Pass		
			6	22.17	-0.71	19.31	<=38.45	Pass		
			13	22.16	-0.71	19.30	<=38.45	Pass		
	25		0	22.16	-0.71	19.30	<=38.45	Pass		
	846.5		1	0	23.11	-0.71	20.25	<=38.45	Pass	
				13	23.27	-0.71	20.41	<=38.45	Pass	
		24		23.13	-0.71	20.27	<=38.45	Pass		
		12	0	22.12	-0.71	19.26	<=38.45	Pass		
			6	22.19	-0.71	19.33	<=38.45	Pass		
			13	22.14	-0.71	19.28	<=38.45	Pass		
		25	0	22.14	-0.71	19.28	<=38.45	Pass		
		16QAM	826.5	1	0	22.11	-0.71	19.25	<=38.45	Pass
					13	22.25	-0.71	19.39	<=38.45	Pass
	24				22.15	-0.71	19.29	<=38.45	Pass	
12	0			21.20	-0.71	18.34	<=38.45	Pass		
	6			21.23	-0.71	18.37	<=38.45	Pass		
	13			21.17	-0.71	18.31	<=38.45	Pass		
25	0			21.20	-0.71	18.34	<=38.45	Pass		
836.5	1			0	22.21	-0.71	19.35	<=38.45	Pass	
				13	22.39	-0.71	19.53	<=38.45	Pass	
			24	22.33	-0.71	19.47	<=38.45	Pass		
	12		0	21.18	-0.71	18.32	<=38.45	Pass		
			6	21.25	-0.71	18.39	<=38.45	Pass		
			13	21.23	-0.71	18.37	<=38.45	Pass		
	25		0	21.14	-0.71	18.28	<=38.45	Pass		
	846.5		1	0	21.87	-0.71	19.01	<=38.45	Pass	
				13	21.98	-0.71	19.12	<=38.45	Pass	
24				21.87	-0.71	19.01	<=38.45	Pass		
12			0	21.15	-0.71	18.29	<=38.45	Pass		
			6	21.20	-0.71	18.34	<=38.45	Pass		
			13	21.16	-0.71	18.30	<=38.45	Pass		
25			0	21.19	-0.71	18.33	<=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	23.70	-0.71	20.84	<=38.45	Pass		
			25	23.92	-0.71	21.06	<=38.45	Pass		
			49	23.48	-0.71	20.62	<=38.45	Pass		
		25	0	22.25	-0.71	19.39	<=38.45	Pass		
			13	22.18	-0.71	19.32	<=38.45	Pass		
			25	22.24	-0.71	19.38	<=38.45	Pass		
		50	0	22.24	-0.71	19.38	<=38.45	Pass		
		836.5	1	0	23.24	-0.71	20.38	<=38.45	Pass	
				25	23.32	-0.71	20.46	<=38.45	Pass	
	49			23.16	-0.71	20.30	<=38.45	Pass		
	25		0	22.08	-0.71	19.22	<=38.45	Pass		
			13	22.21	-0.71	19.35	<=38.45	Pass		
			25	22.18	-0.71	19.32	<=38.45	Pass		
	50		0	22.13	-0.71	19.27	<=38.45	Pass		
	844		1	0	23.16	-0.71	20.30	<=38.45	Pass	
				25	23.34	-0.71	20.48	<=38.45	Pass	
		49		23.22	-0.71	20.36	<=38.45	Pass		
		25	0	22.22	-0.71	19.36	<=38.45	Pass		
			13	22.17	-0.71	19.31	<=38.45	Pass		
			25	22.20	-0.71	19.34	<=38.45	Pass		
		50	0	22.22	-0.71	19.36	<=38.45	Pass		
		16QAM	829	1	0	22.10	-0.71	19.24	<=38.45	Pass
					25	22.31	-0.71	19.45	<=38.45	Pass
	49				22.11	-0.71	19.25	<=38.45	Pass	
25	0			21.31	-0.71	18.45	<=38.45	Pass		
	13			21.23	-0.71	18.37	<=38.45	Pass		
	25			21.31	-0.71	18.45	<=38.45	Pass		
50	0			21.27	-0.71	18.41	<=38.45	Pass		
836.5	1			0	22.21	-0.71	19.35	<=38.45	Pass	
				25	22.43	-0.71	19.57	<=38.45	Pass	
			49	22.28	-0.71	19.42	<=38.45	Pass		
	25		0	21.11	-0.71	18.25	<=38.45	Pass		
			13	21.23	-0.71	18.37	<=38.45	Pass		
			25	21.23	-0.71	18.37	<=38.45	Pass		
	50		0	21.16	-0.71	18.30	<=38.45	Pass		
	844		1	0	22.62	-0.71	19.76	<=38.45	Pass	
				25	22.73	-0.71	19.87	<=38.45	Pass	
49				22.48	-0.71	19.62	<=38.45	Pass		
25			0	21.33	-0.71	18.47	<=38.45	Pass		
			13	21.26	-0.71	18.40	<=38.45	Pass		
			25	21.25	-0.71	18.39	<=38.45	Pass		
50			0	21.26	-0.71	18.40	<=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	-1.960	-0.0024	-2.5 to 2.5	Pass
					3.85	-8.826	-0.0107	-2.5 to 2.5	Pass
					4.43	-9.942	-0.0121	-2.5 to 2.5	Pass
				-30	3.85	-5.908	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-9.556	-0.0116	-2.5 to 2.5	Pass
				-10	3.85	-3.319	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-4.263	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-2.174	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-5.636	-0.0068	-2.5 to 2.5	Pass
	40	3.85	-2.446	-0.0030	-2.5 to 2.5	Pass			
	50	3.85	-5.593	-0.0068	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.27	-7.153	-0.0086	-2.5 to 2.5	Pass
					3.85	-2.661	-0.0032	-2.5 to 2.5	Pass
					4.43	-1.101	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-1.187	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-1.945	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-4.807	-0.0057	-2.5 to 2.5	Pass
				0	3.85	-2.475	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-3.262	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-4.034	-0.0048	-2.5 to 2.5	Pass
	40	3.85	-0.257	-0.0003	-2.5 to 2.5	Pass			
	50	3.85	-0.601	-0.0007	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.27	-7.911	-0.0093	-2.5 to 2.5	Pass
					3.85	-4.334	-0.0051	-2.5 to 2.5	Pass
					4.43	-2.189	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-4.778	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-1.788	-0.0021	-2.5 to 2.5	Pass
-10				3.85	-4.835	-0.0057	-2.5 to 2.5	Pass	
0				3.85	-3.619	-0.0043	-2.5 to 2.5	Pass	
10				3.85	1.001	0.0012	-2.5 to 2.5	Pass	
30				3.85	-3.891	-0.0046	-2.5 to 2.5	Pass	
40	3.85	-6.766	-0.0080	-2.5 to 2.5	Pass				
50	3.85	-3.147	-0.0037	-2.5 to 2.5	Pass				
16QAM	824.7	6	0	20	3.27	-1.674	-0.0020	-2.5 to 2.5	Pass
					3.85	-6.809	-0.0083	-2.5 to 2.5	Pass
					4.43	-8.726	-0.0106	-2.5 to 2.5	Pass
				-30	3.85	-6.280	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-4.292	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-6.065	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-4.764	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-5.450	-0.0066	-2.5 to 2.5	Pass
				30	3.85	-4.649	-0.0056	-2.5 to 2.5	Pass
	40	3.85	-5.236	-0.0063	-2.5 to 2.5	Pass			
	50	3.85	-5.050	-0.0061	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.27	-6.094	-0.0073	-2.5 to 2.5	Pass
					3.85	-10.357	-0.0124	-2.5 to 2.5	Pass
					4.43	-24.991	-0.0299	-2.5 to 2.5	Pass
				-30	3.85	-5.536	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-6.394	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-6.037	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-7.682	-0.0092	-2.5 to 2.5	Pass
10				3.85	-3.605	-0.0043	-2.5 to 2.5	Pass	

	848.3	6	0	30	3.85	-5.479	-0.0065	-2.5 to 2.5	Pass
				40	3.85	-3.777	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-2.174	-0.0026	-2.5 to 2.5	Pass
				20	3.27	-3.319	-0.0039	-2.5 to 2.5	Pass
					3.85	-7.439	-0.0088	-2.5 to 2.5	Pass
					4.43	-5.193	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	-4.606	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-6.409	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-6.952	-0.0082	-2.5 to 2.5	Pass
				0	3.85	-4.392	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-5.937	-0.0070	-2.5 to 2.5	Pass
				30	3.85	-0.830	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-3.247	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-5.007	-0.0059	-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	-1.402	-0.0017	-2.5 to 2.5	Pass			
					3.85	-0.930	-0.0011	-2.5 to 2.5	Pass			
					4.43	-1.431	-0.0017	-2.5 to 2.5	Pass			
				-30	3.85	1.173	0.0014	-2.5 to 2.5	Pass			
				-20	3.85	-2.732	-0.0033	-2.5 to 2.5	Pass			
				-10	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass			
				0	3.85	-3.448	-0.0042	-2.5 to 2.5	Pass			
				10	3.85	-4.506	-0.0055	-2.5 to 2.5	Pass			
				30	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass			
				40	3.85	-6.666	-0.0081	-2.5 to 2.5	Pass			
				50	3.85	-3.090	-0.0037	-2.5 to 2.5	Pass			
				836.5	15	0	20	3.27	-2.160	-0.0026	-2.5 to 2.5	Pass
								3.85	-7.496	-0.0090	-2.5 to 2.5	Pass
								4.43	-6.938	-0.0083	-2.5 to 2.5	Pass
							-30	3.85	-5.651	-0.0068	-2.5 to 2.5	Pass
	-20	3.85	-9.241				-0.0110	-2.5 to 2.5	Pass			
	-10	3.85	-8.469				-0.0101	-2.5 to 2.5	Pass			
	0	3.85	-8.526				-0.0102	-2.5 to 2.5	Pass			
	10	3.85	-8.512				-0.0102	-2.5 to 2.5	Pass			
	30	3.85	-4.721				-0.0056	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-5.965	-0.0070	-2.5 to 2.5	Pass			
					3.85	-4.807	-0.0057	-2.5 to 2.5	Pass			
					4.43	-2.918	-0.0034	-2.5 to 2.5	Pass			
				-30	3.85	0.200	0.0002	-2.5 to 2.5	Pass			
				-20	3.85	-8.640	-0.0102	-2.5 to 2.5	Pass			
				-10	3.85	-3.891	-0.0046	-2.5 to 2.5	Pass			
				0	3.85	-5.894	-0.0070	-2.5 to 2.5	Pass			
				10	3.85	-6.938	-0.0082	-2.5 to 2.5	Pass			

				30	3.85	-2.818	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-2.704	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-1.645	-0.0019	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	-8.969	-0.0109	-2.5 to 2.5	Pass
					3.85	-5.808	-0.0070	-2.5 to 2.5	Pass
					4.43	-10.085	-0.0122	-2.5 to 2.5	Pass
				-30	3.85	-9.828	-0.0119	-2.5 to 2.5	Pass
				-20	3.85	-8.125	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-3.233	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-6.967	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-10.257	-0.0124	-2.5 to 2.5	Pass
				30	3.85	-5.794	-0.0070	-2.5 to 2.5	Pass
				40	3.85	-7.911	-0.0096	-2.5 to 2.5	Pass
	50	3.85	-7.281	-0.0088	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.27	-3.047	-0.0036	-2.5 to 2.5	Pass
					3.85	-4.148	-0.0050	-2.5 to 2.5	Pass
					4.43	-8.554	-0.0102	-2.5 to 2.5	Pass
				-30	3.85	-8.311	-0.0099	-2.5 to 2.5	Pass
				-20	3.85	-5.965	-0.0071	-2.5 to 2.5	Pass
				-10	3.85	-1.287	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-4.578	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-1.159	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-6.094	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-5.565	-0.0067	-2.5 to 2.5	Pass
	50	3.85	-5.836	-0.0070	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	-8.125	-0.0096	-2.5 to 2.5	Pass
					3.85	-5.050	-0.0060	-2.5 to 2.5	Pass
					4.43	-8.554	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-7.381	-0.0087	-2.5 to 2.5	Pass
				-20	3.85	-6.866	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-7.181	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-8.211	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-7.324	-0.0086	-2.5 to 2.5	Pass
30				3.85	-4.907	-0.0058	-2.5 to 2.5	Pass	
40				3.85	-8.640	-0.0102	-2.5 to 2.5	Pass	
50	3.85	-6.123	-0.0072	-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	-8.283	-0.0100	-2.5 to 2.5	Pass
					3.85	-2.775	-0.0034	-2.5 to 2.5	Pass
					4.43	-4.678	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-2.017	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-4.120	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-3.977	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-6.251	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-1.659	-0.0020	-2.5 to 2.5	Pass

	836.5	25	0	30	3.85	-6.022	-0.0073	-2.5 to 2.5	Pass				
				40	3.85	-6.580	-0.0080	-2.5 to 2.5	Pass				
				50	3.85	-5.708	-0.0069	-2.5 to 2.5	Pass				
				20	3.27	-3.333	-0.0040	-2.5 to 2.5	Pass				
					3.85	-6.280	-0.0075	-2.5 to 2.5	Pass				
					4.43	-5.994	-0.0072	-2.5 to 2.5	Pass				
				-30	3.85	-3.891	-0.0047	-2.5 to 2.5	Pass				
				-20	3.85	-5.522	-0.0066	-2.5 to 2.5	Pass				
				-10	3.85	-4.621	-0.0055	-2.5 to 2.5	Pass				
				0	3.85	-2.775	-0.0033	-2.5 to 2.5	Pass				
				10	3.85	-6.380	-0.0076	-2.5 to 2.5	Pass				
				30	3.85	-7.095	-0.0085	-2.5 to 2.5	Pass				
				40	3.85	-5.465	-0.0065	-2.5 to 2.5	Pass				
				50	3.85	-9.427	-0.0113	-2.5 to 2.5	Pass				
				846.5	25	0	20	3.27	-2.918	-0.0034	-2.5 to 2.5	Pass	
	3.85	-7.167	-0.0085					-2.5 to 2.5	Pass				
	4.43	-6.766	-0.0080					-2.5 to 2.5	Pass				
	-30	3.85	-8.526				-0.0101	-2.5 to 2.5	Pass				
	-20	3.85	-4.921				-0.0058	-2.5 to 2.5	Pass				
	-10	3.85	-9.942				-0.0117	-2.5 to 2.5	Pass				
	0	3.85	-4.435				-0.0052	-2.5 to 2.5	Pass				
	10	3.85	-3.862				-0.0046	-2.5 to 2.5	Pass				
	30	3.85	-7.381				-0.0087	-2.5 to 2.5	Pass				
	40	3.85	-6.280				-0.0074	-2.5 to 2.5	Pass				
	50	3.85	-6.623				-0.0078	-2.5 to 2.5	Pass				
	16QAM	826.5	25				0	20	3.27	-4.563	-0.0055	-2.5 to 2.5	Pass
									3.85	-3.362	-0.0041	-2.5 to 2.5	Pass
									4.43	-9.813	-0.0119	-2.5 to 2.5	Pass
								-30	3.85	-6.523	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-6.652		-0.0080	-2.5 to 2.5	Pass			
-10				3.85	-8.826	-0.0107		-2.5 to 2.5	Pass				
0				3.85	-6.094	-0.0074		-2.5 to 2.5	Pass				
10				3.85	-8.454	-0.0102		-2.5 to 2.5	Pass				
30				3.85	-7.439	-0.0090		-2.5 to 2.5	Pass				
40				3.85	-4.835	-0.0058		-2.5 to 2.5	Pass				
50				3.85	-5.078	-0.0061		-2.5 to 2.5	Pass				
836.5				25	0	20		3.27	-8.340	-0.0100	-2.5 to 2.5	Pass	
								3.85	-8.154	-0.0097	-2.5 to 2.5	Pass	
								4.43	-8.240	-0.0099	-2.5 to 2.5	Pass	
						-30		3.85	-3.147	-0.0038	-2.5 to 2.5	Pass	
		-20	3.85			-4.807	-0.0057	-2.5 to 2.5	Pass				
		-10	3.85			-3.848	-0.0046	-2.5 to 2.5	Pass				
		0	3.85			-2.160	-0.0026	-2.5 to 2.5	Pass				
		10	3.85			-5.951	-0.0071	-2.5 to 2.5	Pass				
		30	3.85			-4.220	-0.0050	-2.5 to 2.5	Pass				
		40	3.85			-3.591	-0.0043	-2.5 to 2.5	Pass				
		50	3.85			-7.582	-0.0091	-2.5 to 2.5	Pass				
		846.5	25			0	20	3.27	-6.380	-0.0075	-2.5 to 2.5	Pass	
								3.85	-1.416	-0.0017	-2.5 to 2.5	Pass	
								4.43	-7.496	-0.0089	-2.5 to 2.5	Pass	
							-30	3.85	-6.723	-0.0079	-2.5 to 2.5	Pass	
-20				3.85	-7.367		-0.0087	-2.5 to 2.5	Pass				
-10				3.85	-5.636		-0.0067	-2.5 to 2.5	Pass				
0				3.85	-4.907		-0.0058	-2.5 to 2.5	Pass				
10				3.85	-7.653		-0.0090	-2.5 to 2.5	Pass				



				30	3.85	-4.249	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-5.007	-0.0059	-2.5 to 2.5	Pass
				50	3.85	-7.968	-0.0094	-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	-6.065	-0.0073	-2.5 to 2.5	Pass	
					3.85	-6.280	-0.0076	-2.5 to 2.5	Pass	
					4.43	-4.249	-0.0051	-2.5 to 2.5	Pass	
				-30	3.85	-7.739	-0.0093	-2.5 to 2.5	Pass	
					-20	3.85	-8.111	-0.0098	-2.5 to 2.5	Pass
						3.85	-7.095	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-9.327	-0.0113	-2.5 to 2.5	Pass	
					10	3.85	-5.536	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-8.254	-0.0100	-2.5 to 2.5	Pass	
	40	3.85	-6.423	-0.0077	-2.5 to 2.5	Pass				
	50	3.85	-6.638	-0.0080	-2.5 to 2.5	Pass				
	836.5	50	0	20	3.27	-6.781	-0.0081	-2.5 to 2.5	Pass	
					3.85	-5.922	-0.0071	-2.5 to 2.5	Pass	
					4.43	-0.958	-0.0011	-2.5 to 2.5	Pass	
				-30	3.85	-5.465	-0.0065	-2.5 to 2.5	Pass	
					-20	3.85	-3.176	-0.0038	-2.5 to 2.5	Pass
						3.85	-4.249	-0.0051	-2.5 to 2.5	Pass
				0	3.85	-3.748	-0.0045	-2.5 to 2.5	Pass	
					10	3.85	-4.063	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0032	-2.5 to 2.5	Pass	
	40	3.85	-4.020	-0.0048	-2.5 to 2.5	Pass				
	50	3.85	-3.977	-0.0048	-2.5 to 2.5	Pass				
	844	50	0	20	3.27	-7.768	-0.0092	-2.5 to 2.5	Pass	
					3.85	-8.769	-0.0104	-2.5 to 2.5	Pass	
					4.43	-7.739	-0.0092	-2.5 to 2.5	Pass	
				-30	3.85	-6.266	-0.0074	-2.5 to 2.5	Pass	
					-20	3.85	-8.841	-0.0105	-2.5 to 2.5	Pass
3.85						-7.195	-0.0085	-2.5 to 2.5	Pass	
0				3.85	-4.635	-0.0055	-2.5 to 2.5	Pass		
				10	3.85	-7.682	-0.0091	-2.5 to 2.5	Pass	
30				3.85	-1.960	-0.0023	-2.5 to 2.5	Pass		
40	3.85	-4.377	-0.0052	-2.5 to 2.5	Pass					
50	3.85	-4.120	-0.0049	-2.5 to 2.5	Pass					
16QAM	829	50	0	20	3.27	-5.951	-0.0072	-2.5 to 2.5	Pass	
					3.85	-5.393	-0.0065	-2.5 to 2.5	Pass	
					4.43	-6.008	-0.0072	-2.5 to 2.5	Pass	
				-30	3.85	-2.203	-0.0027	-2.5 to 2.5	Pass	
					-20	3.85	-7.725	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	-5.379	-0.0065	-2.5 to 2.5	Pass	
0	3.85	-8.512	-0.0103	-2.5 to 2.5	Pass					
10	3.85	-8.554	-0.0103	-2.5 to 2.5	Pass					

	836.5	50	0	30	3.85	-4.520	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-6.523	-0.0079	-2.5 to 2.5	Pass
				50	3.85	-8.569	-0.0103	-2.5 to 2.5	Pass
				20	3.27	-3.190	-0.0038	-2.5 to 2.5	Pass
					3.85	-4.592	-0.0055	-2.5 to 2.5	Pass
					4.43	-8.240	-0.0099	-2.5 to 2.5	Pass
				-30	3.85	-2.518	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-6.409	-0.0077	-2.5 to 2.5	Pass
				-10	3.85	-4.406	-0.0053	-2.5 to 2.5	Pass
				0	3.85	-4.921	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-3.877	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-4.120	-0.0049	-2.5 to 2.5	Pass
	40	3.85	-5.250	-0.0063	-2.5 to 2.5	Pass			
	50	3.85	-7.725	-0.0092	-2.5 to 2.5	Pass			
	844	50	0	20	3.27	-5.665	-0.0067	-2.5 to 2.5	Pass
					3.85	-4.749	-0.0056	-2.5 to 2.5	Pass
					4.43	-7.782	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-7.296	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-7.424	-0.0088	-2.5 to 2.5	Pass
				-10	3.85	-6.781	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-1.030	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-3.505	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-7.954	-0.0094	-2.5 to 2.5	Pass
				40	3.85	-6.523	-0.0077	-2.5 to 2.5	Pass
50				3.85	-4.478	-0.0053	-2.5 to 2.5	Pass	

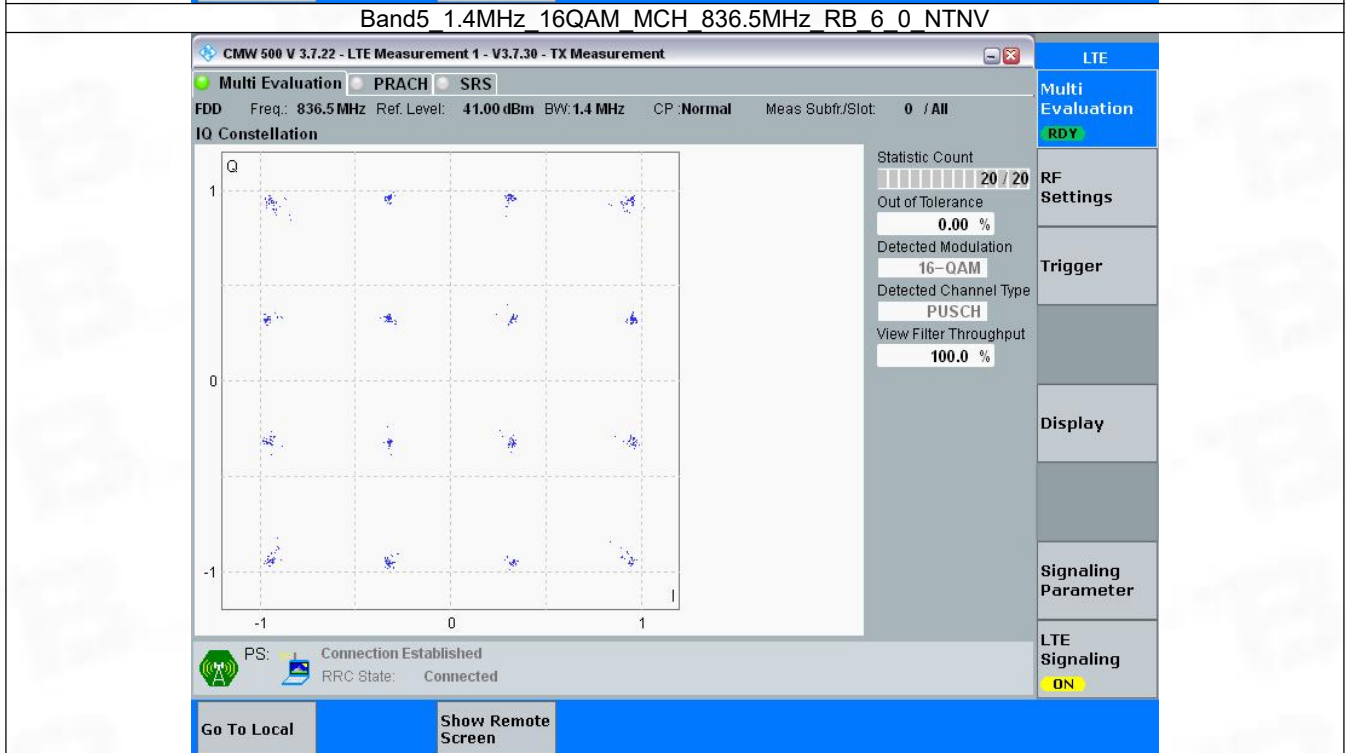
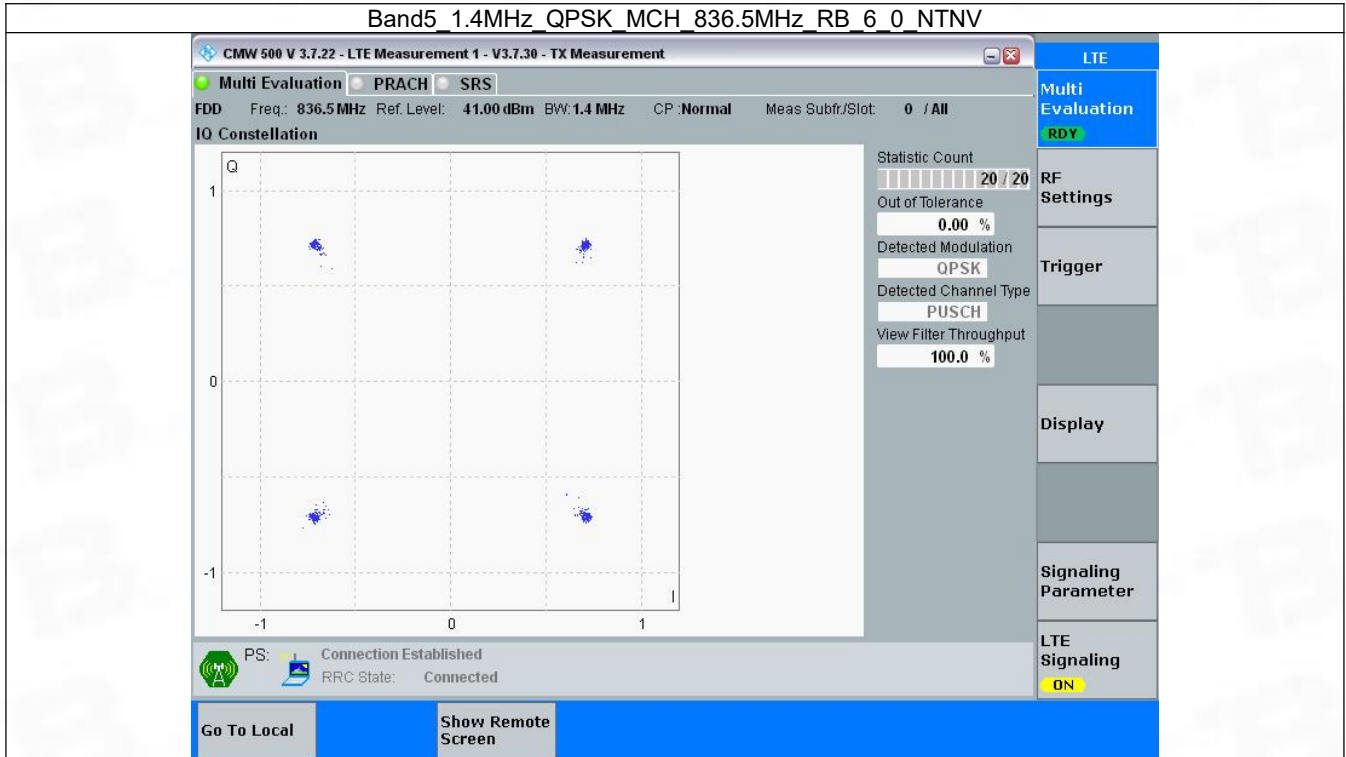
### 3. Modulation Characteristics

#### 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

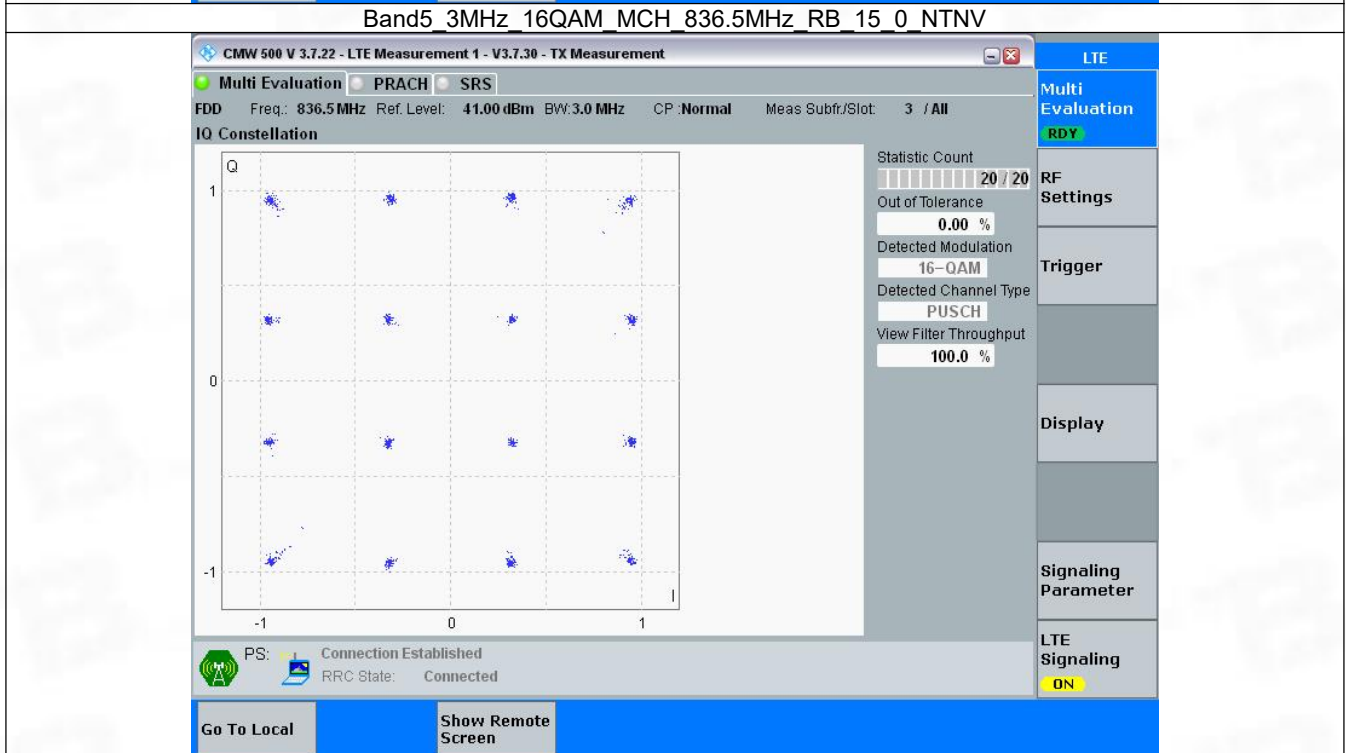
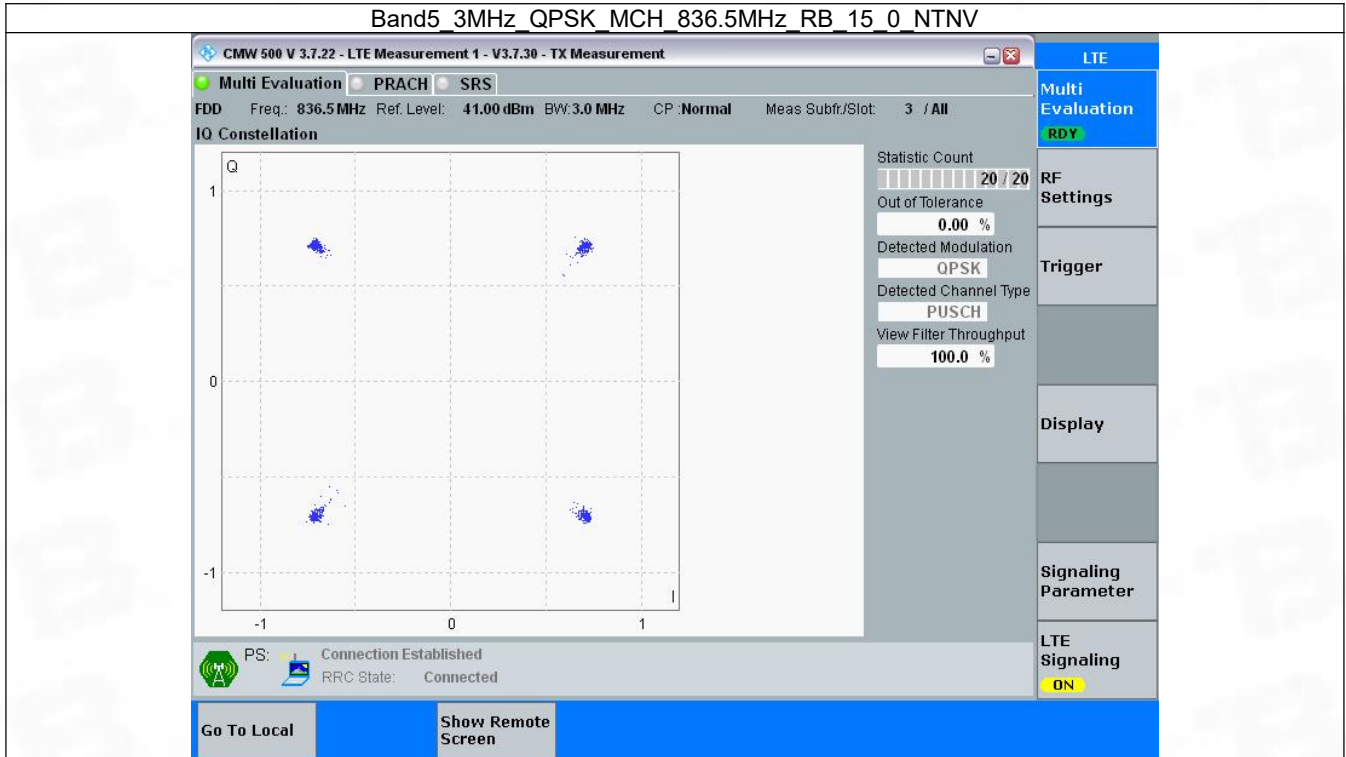


## 3.2 B5\_3MHz

### 3.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTV						
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

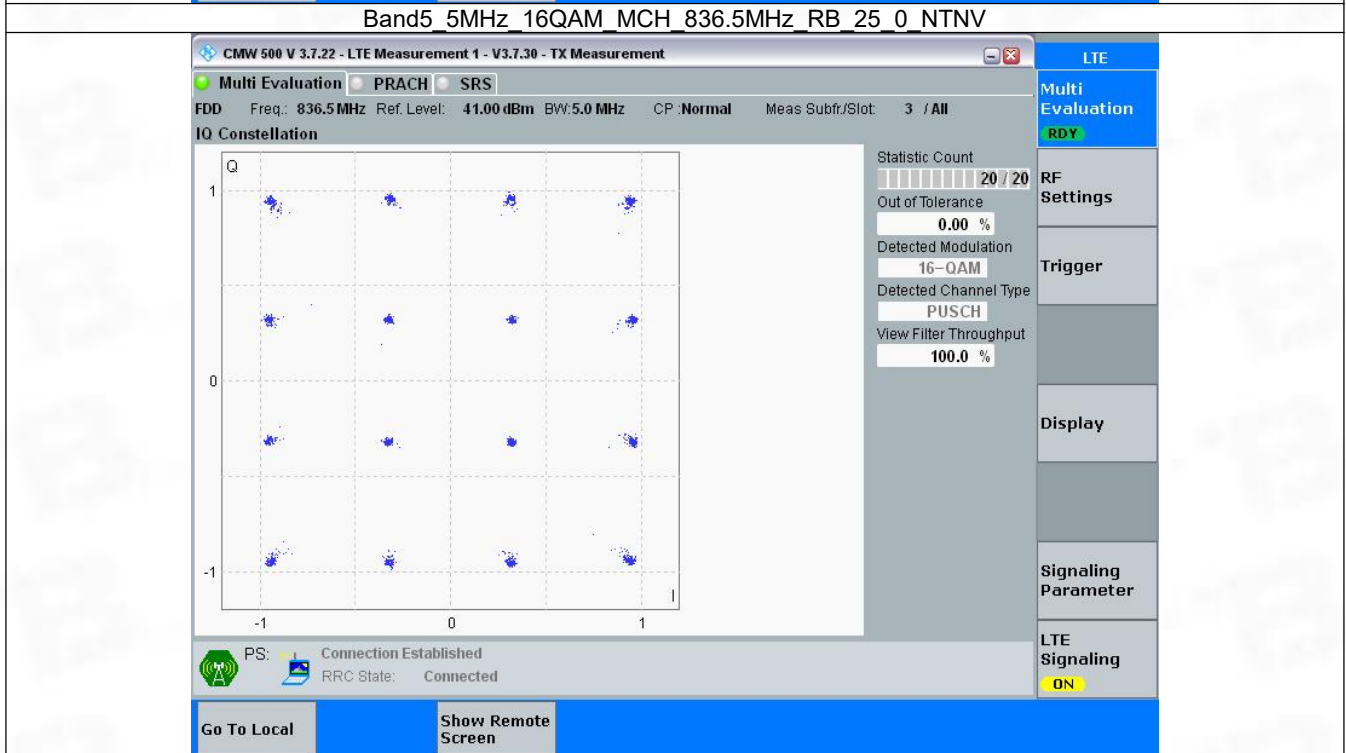
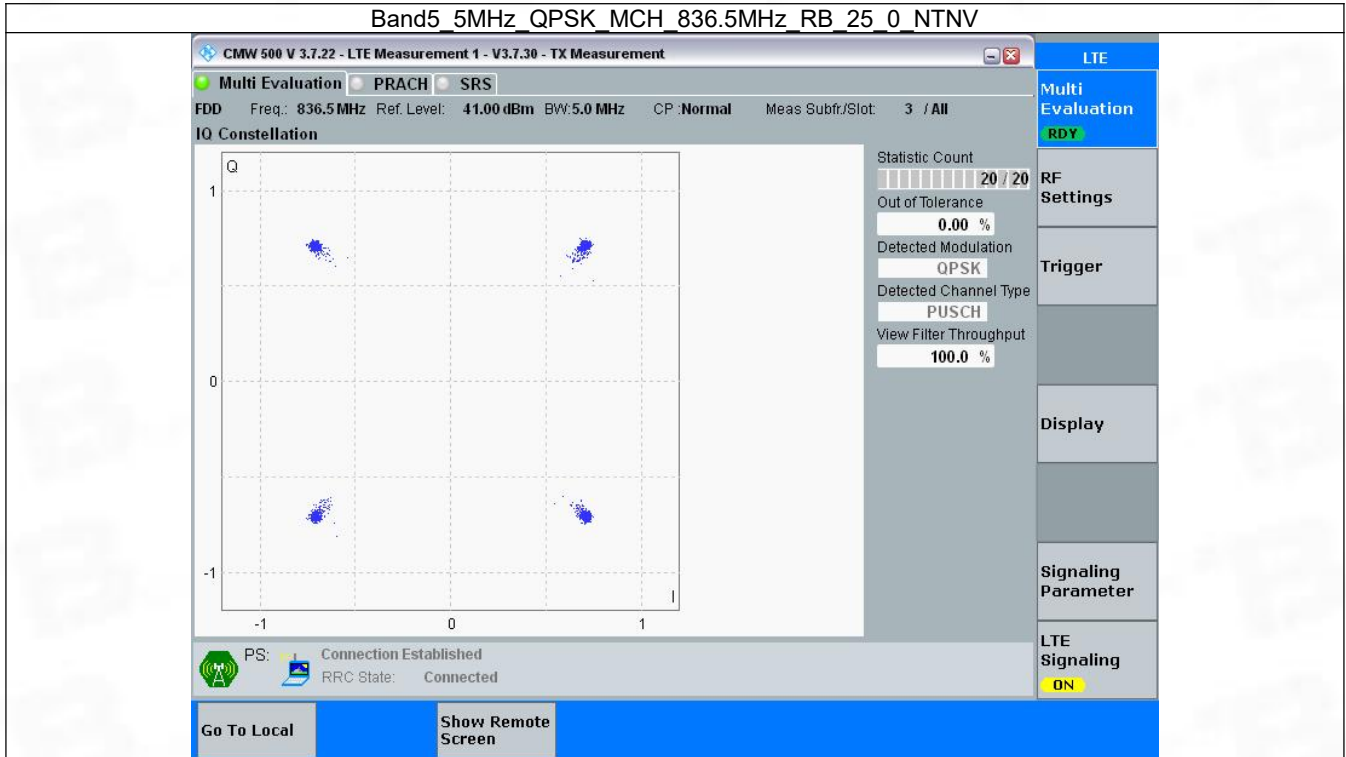


### 3.3 B5\_5MHz

#### 3.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTV						
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



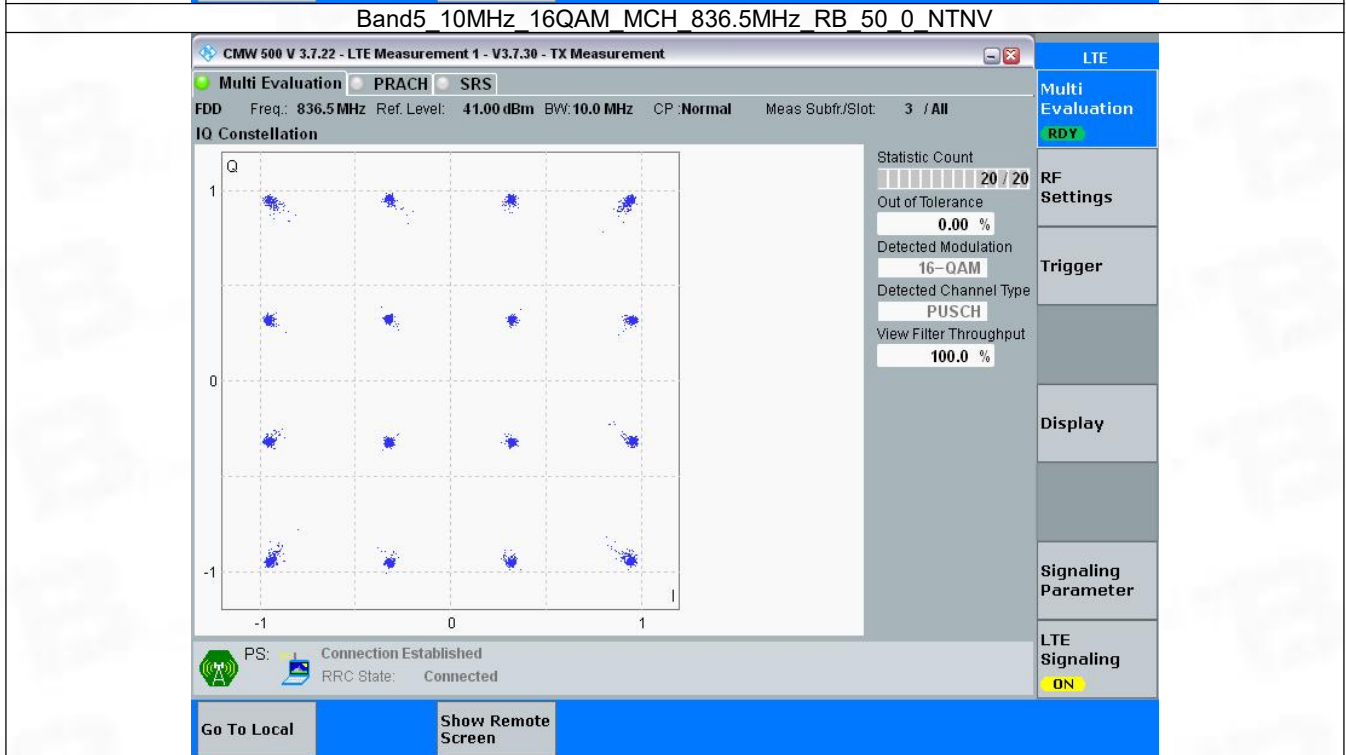
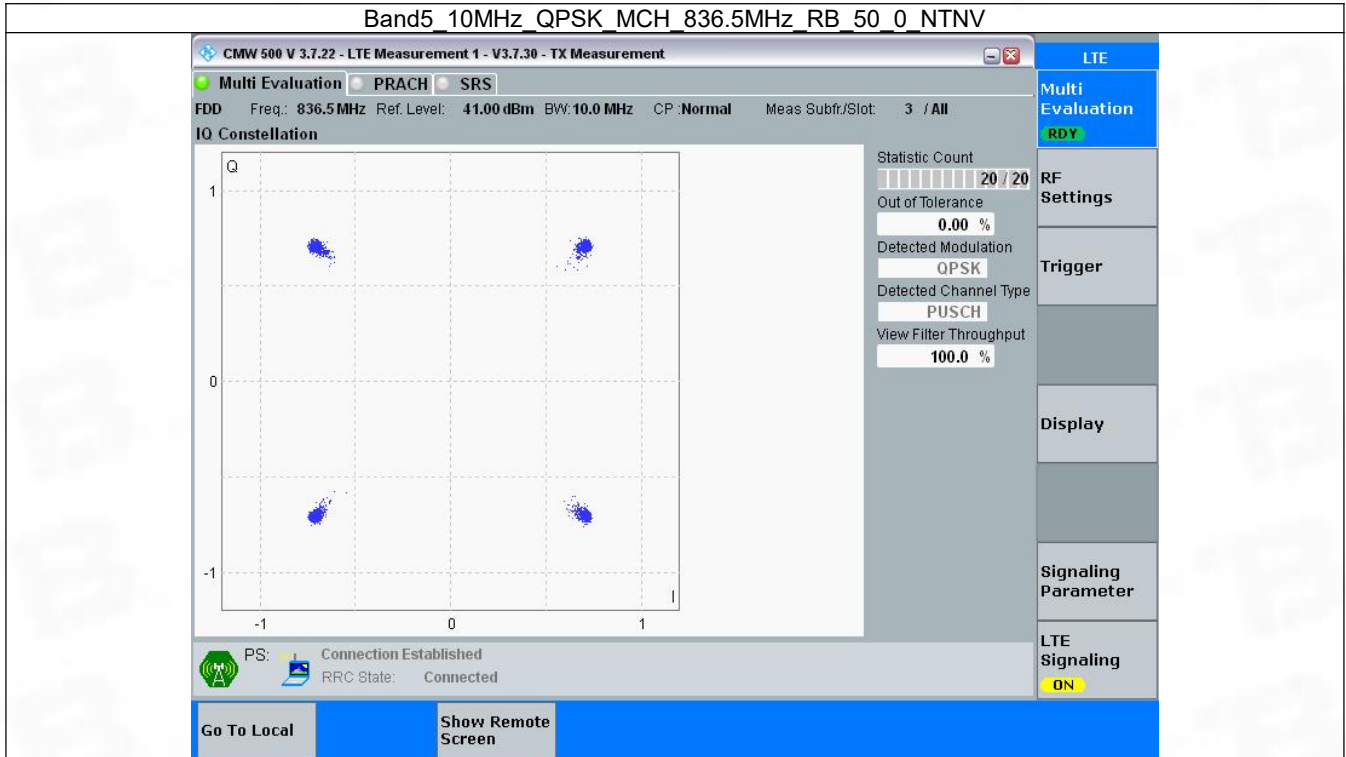
### 3.4 B5\_10MHz

#### 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



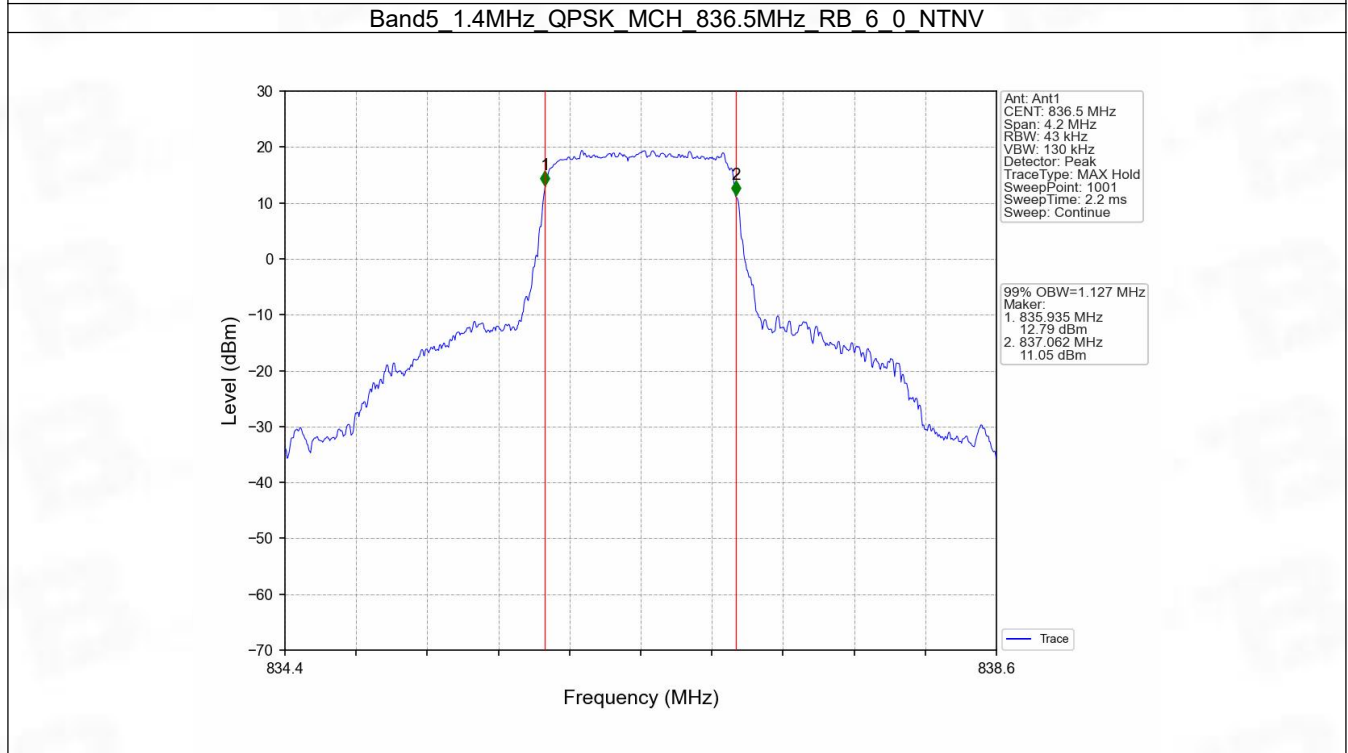
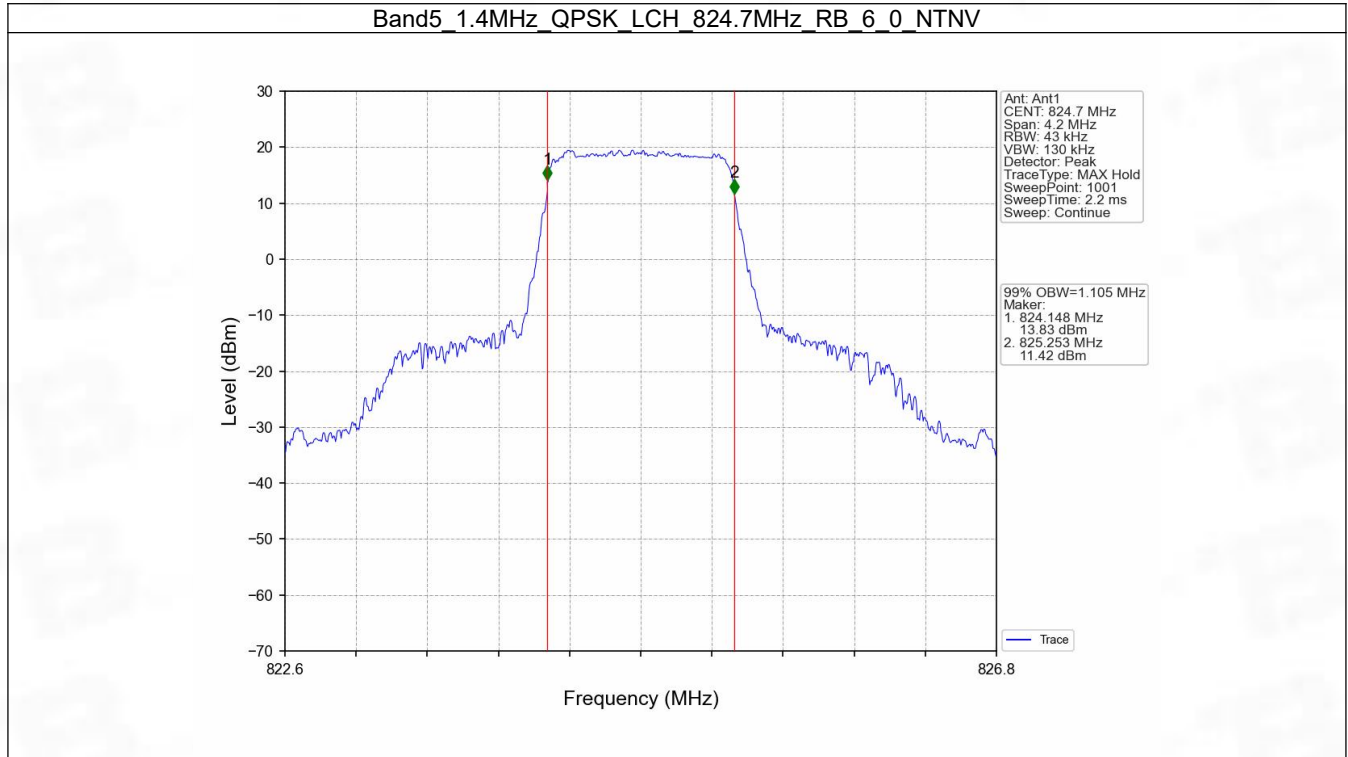
## 4. 99% & 26dB Bandwidth

### 4.1 Band5\_OBW

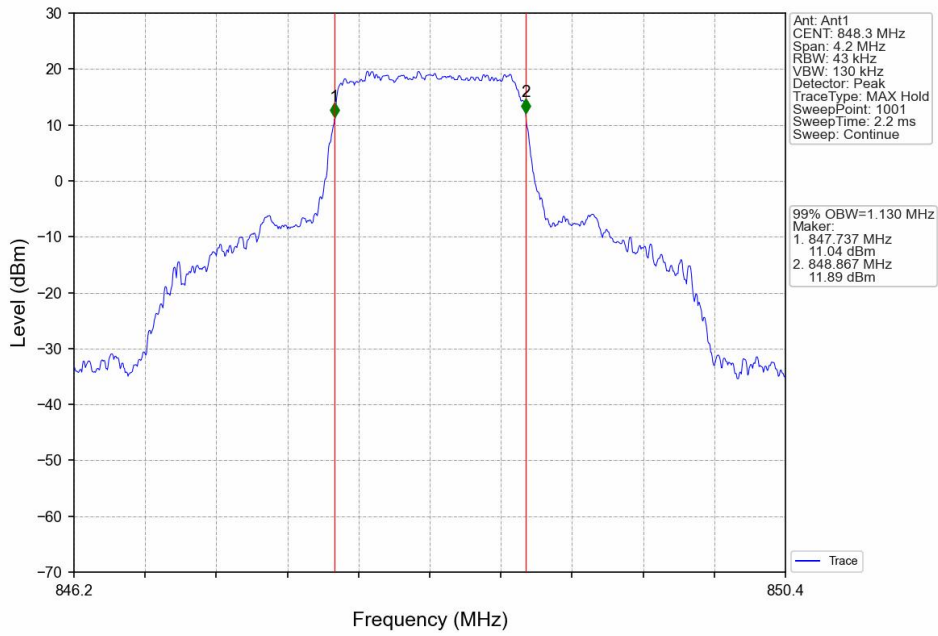
#### 4.1.1 Test Result

Band: 5 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	824.7	6	0	1.105	Pass
		836.5	6	0	1.127	Pass
		848.3	6	0	1.130	Pass
	16QAM	824.7	6	0	1.115	Pass
		836.5	6	0	1.118	Pass
		848.3	6	0	1.110	Pass
3	QPSK	825.5	15	0	2.735	Pass
		836.5	15	0	2.739	Pass
		847.5	15	0	2.740	Pass
	16QAM	825.5	15	0	2.715	Pass
		836.5	15	0	2.722	Pass
		847.5	15	0	2.731	Pass
5	QPSK	826.5	25	0	4.564	Pass
		836.5	25	0	4.572	Pass
		846.5	25	0	4.598	Pass
	16QAM	826.5	25	0	4.606	Pass
		836.5	25	0	4.576	Pass
		846.5	25	0	4.589	Pass
10	QPSK	829	50	0	9.150	Pass
		836.5	50	0	9.041	Pass
		844	50	0	9.119	Pass
	16QAM	829	50	0	9.130	Pass
		836.5	50	0	9.049	Pass
		844	50	0	9.093	Pass

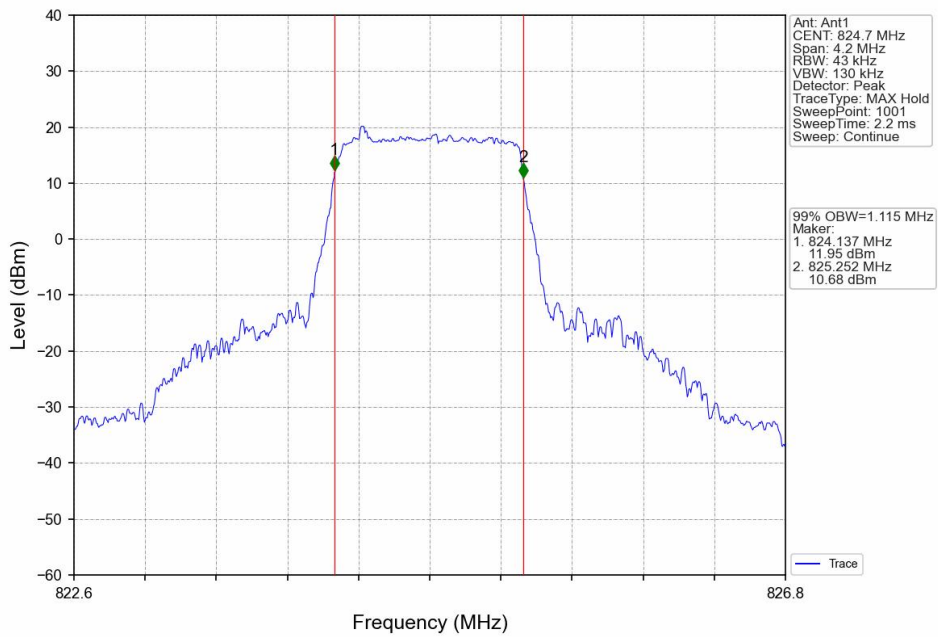
### 4.1.2 Test Graph



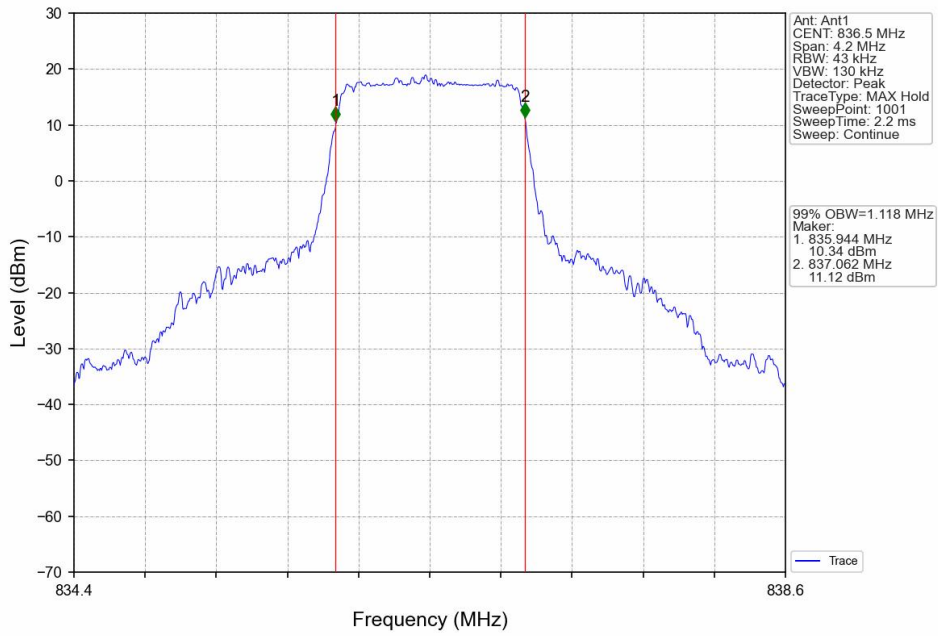
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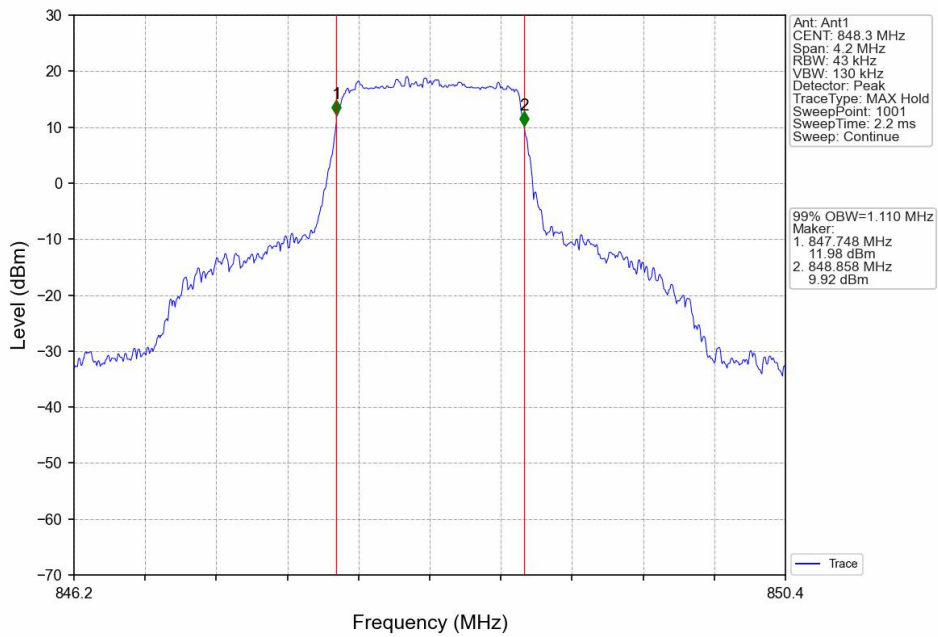
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



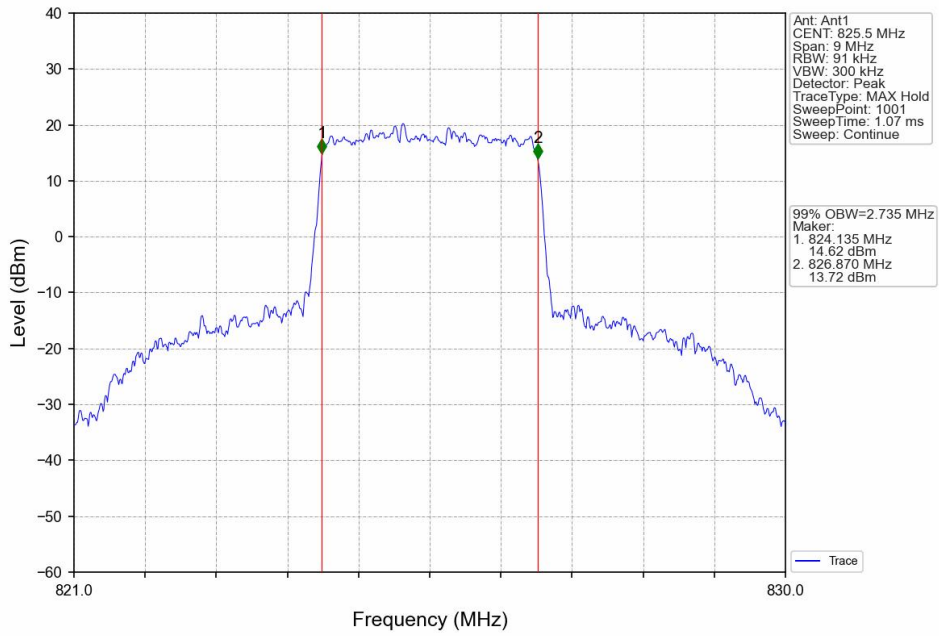
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



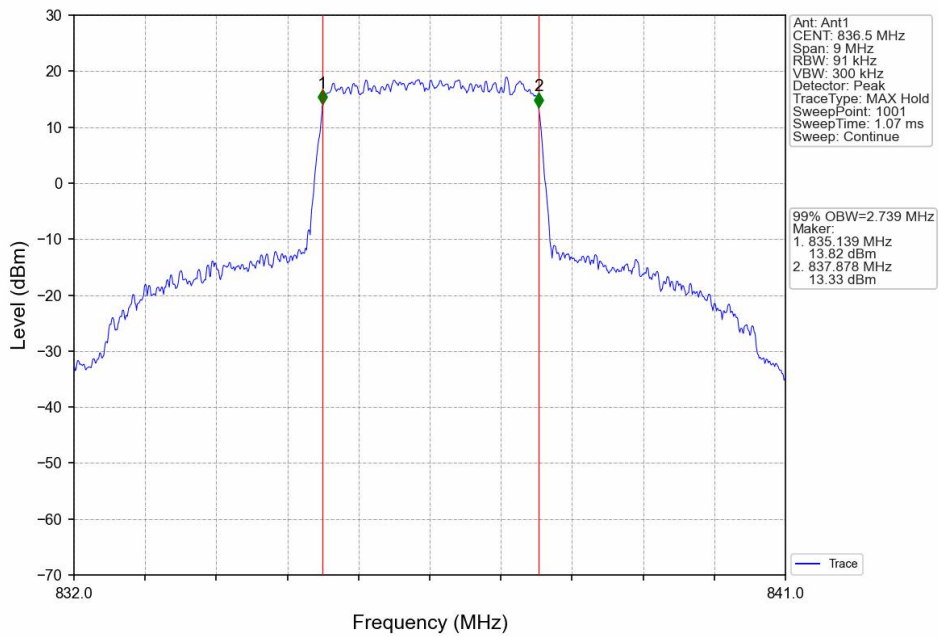
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



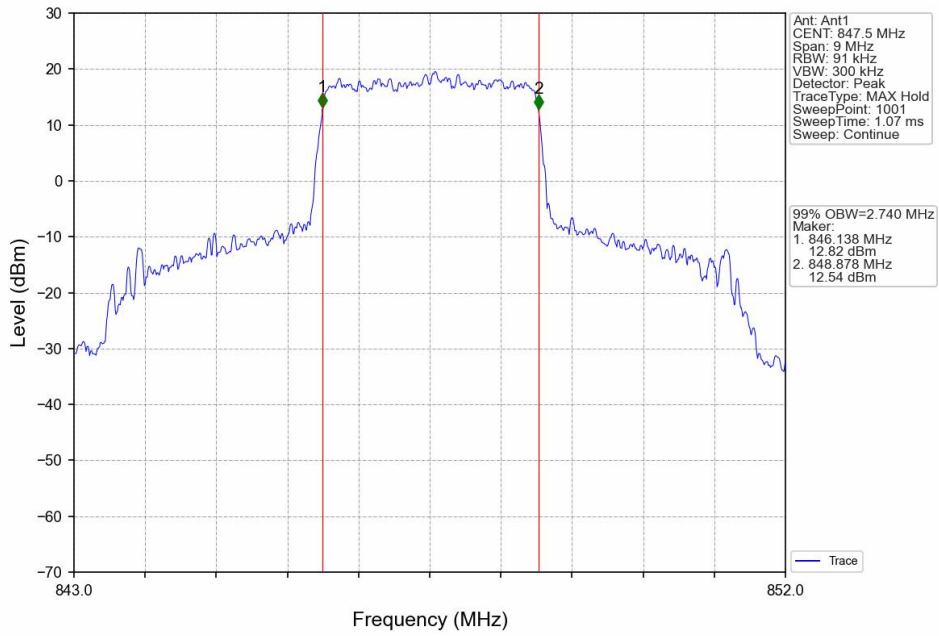
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



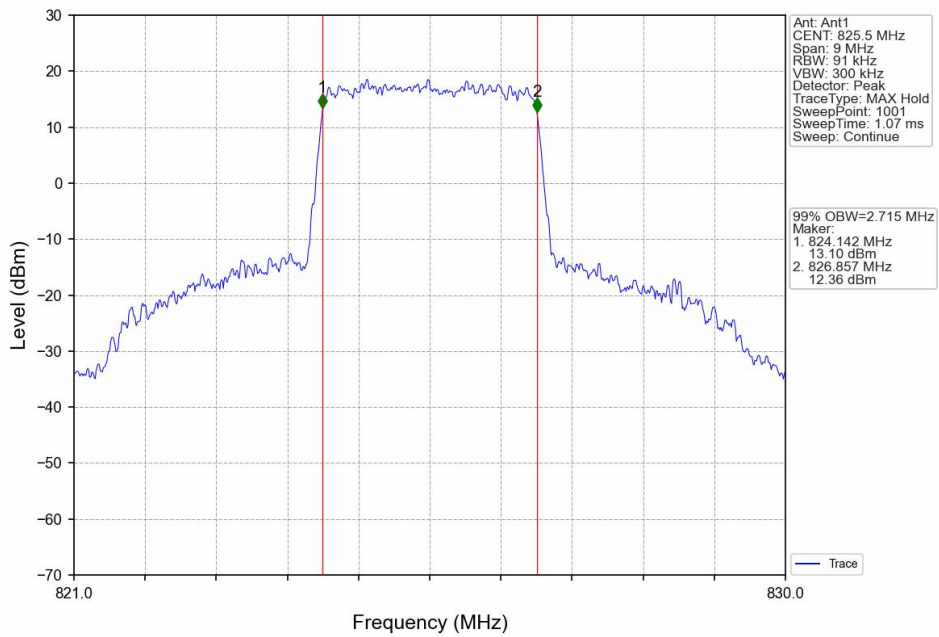
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



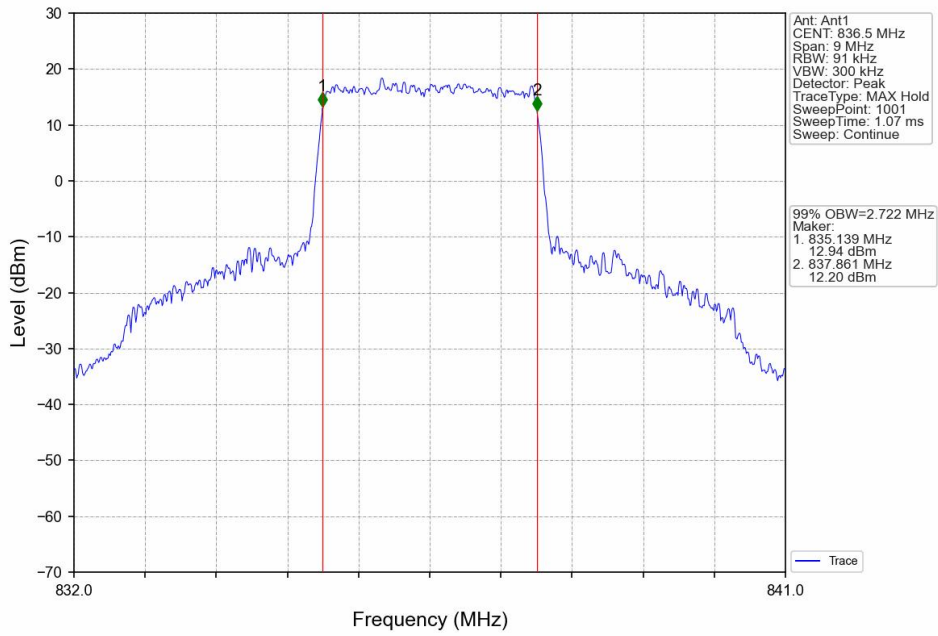
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



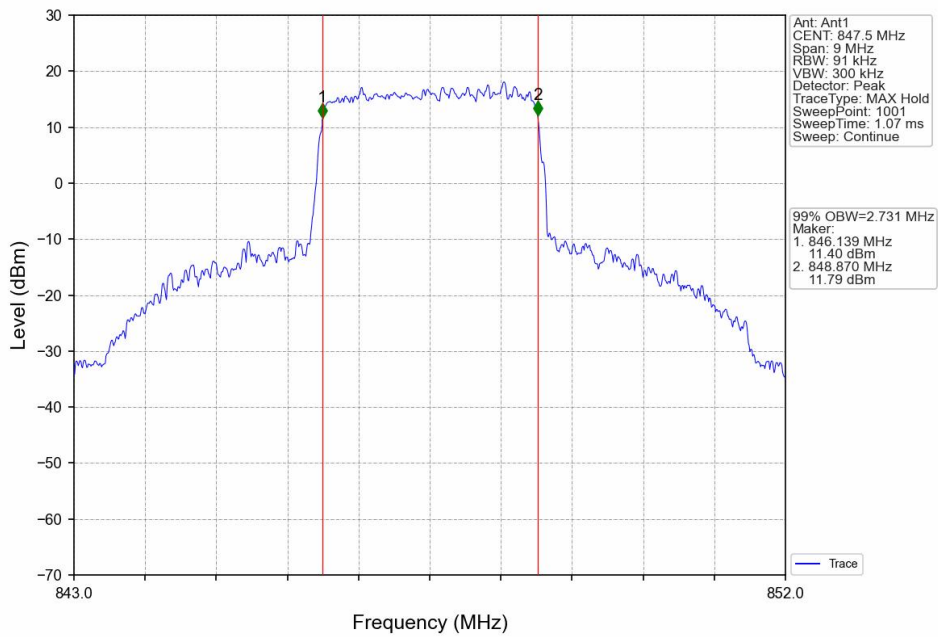
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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

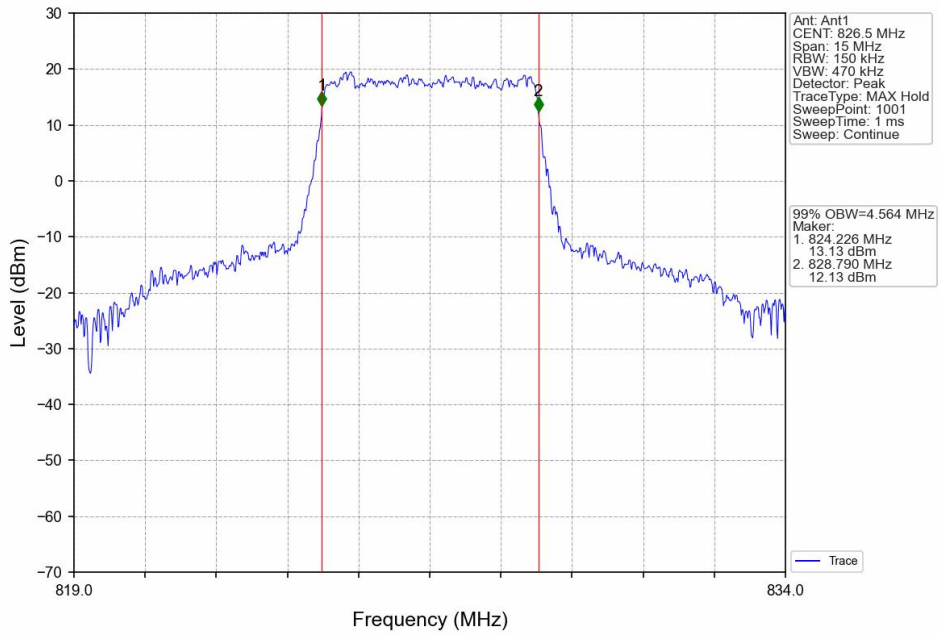


Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

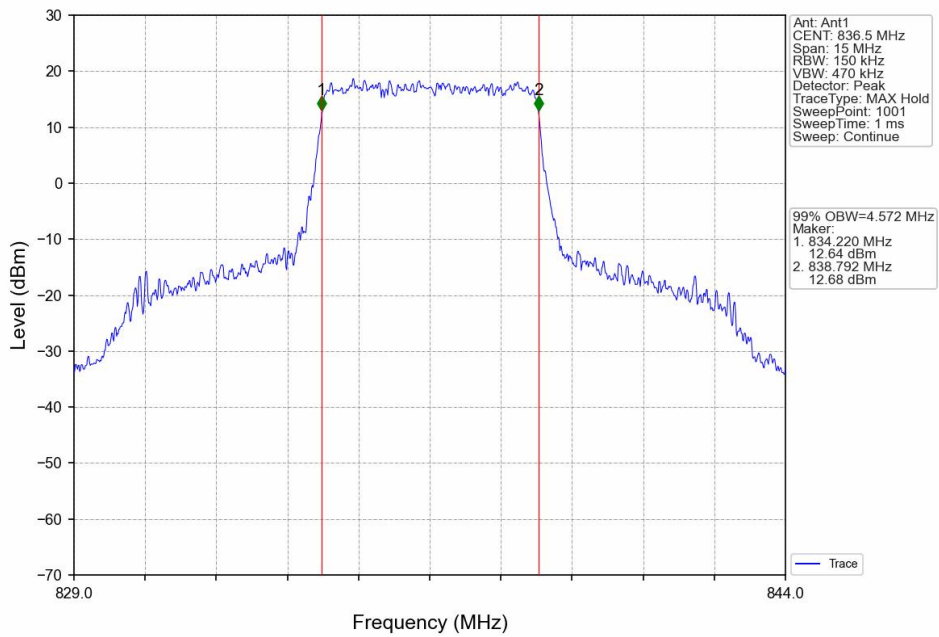




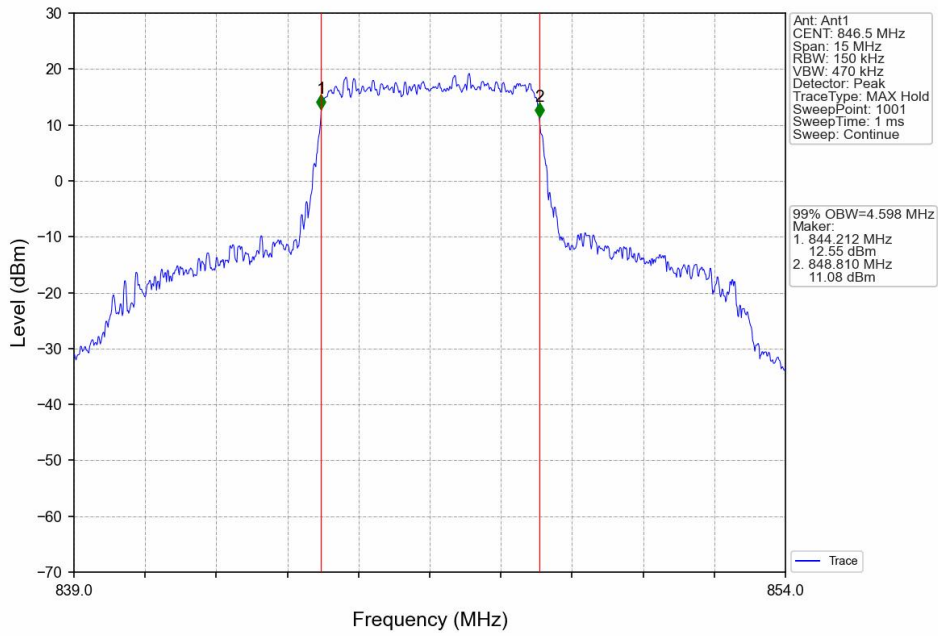
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



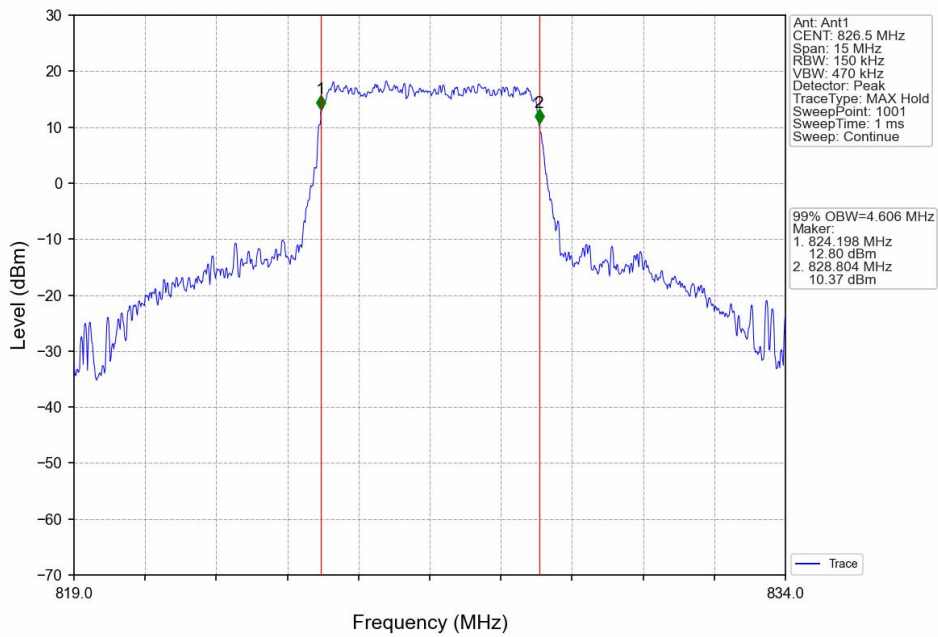
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



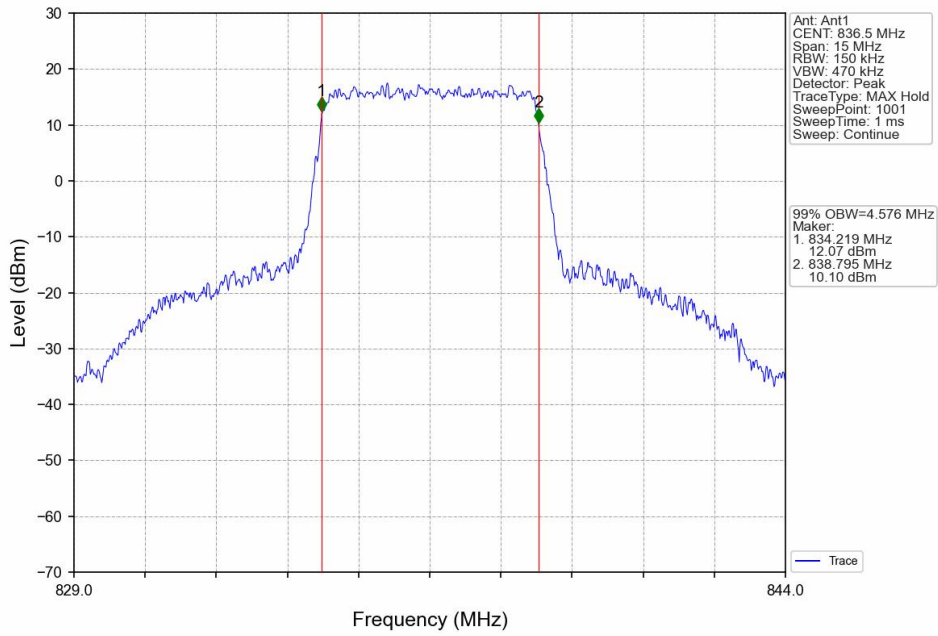
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



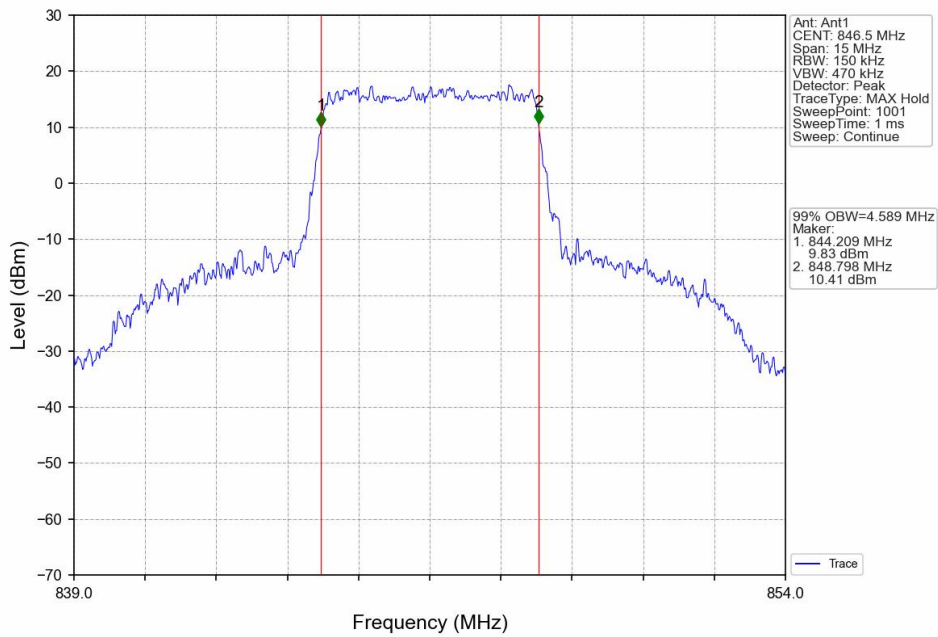
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



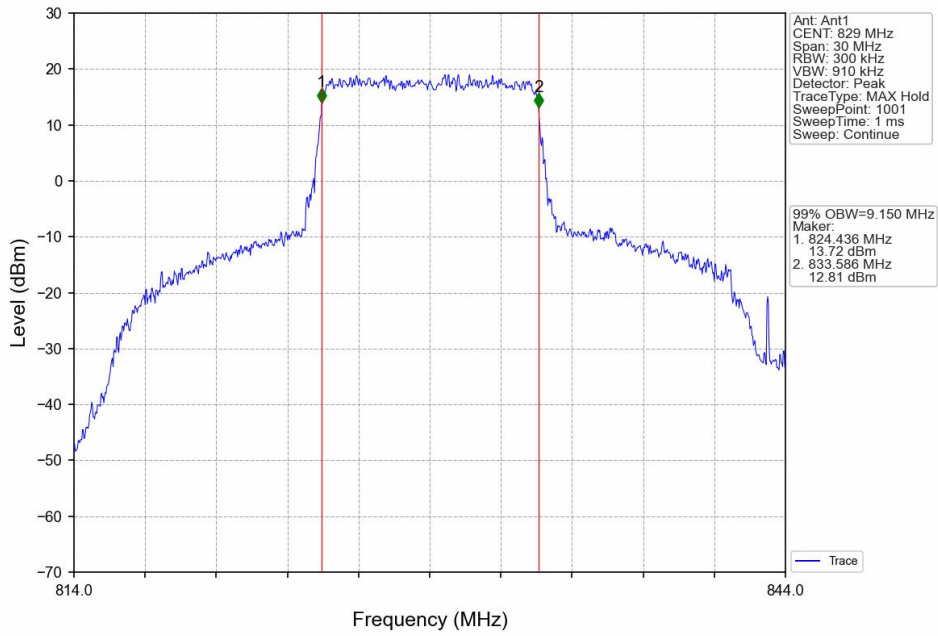
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



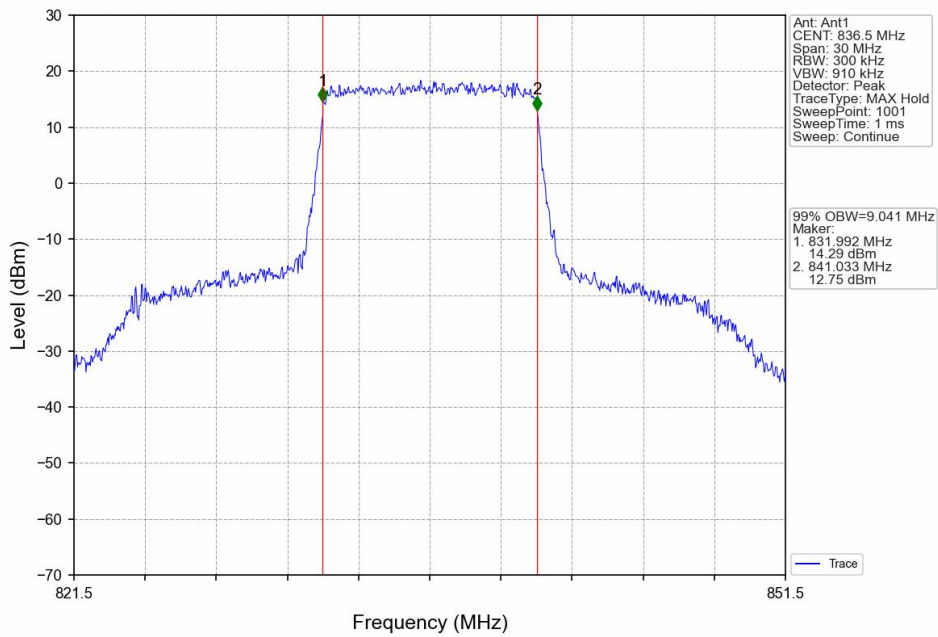
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



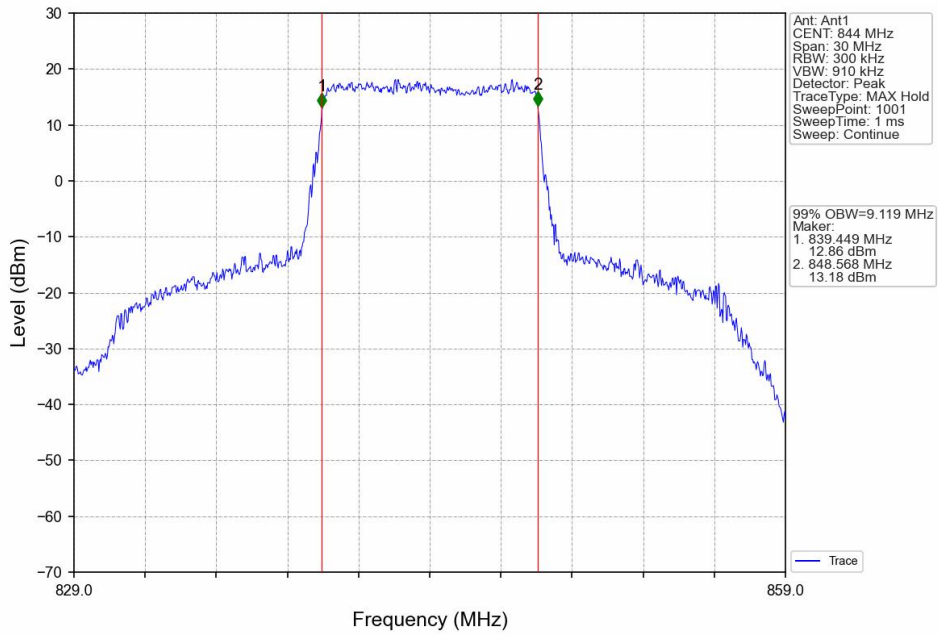
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



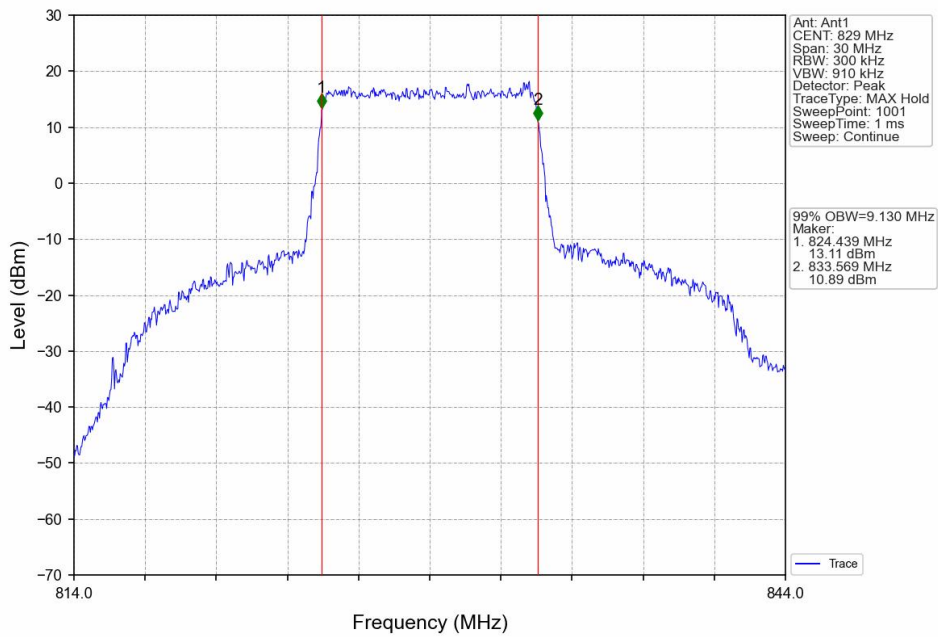
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



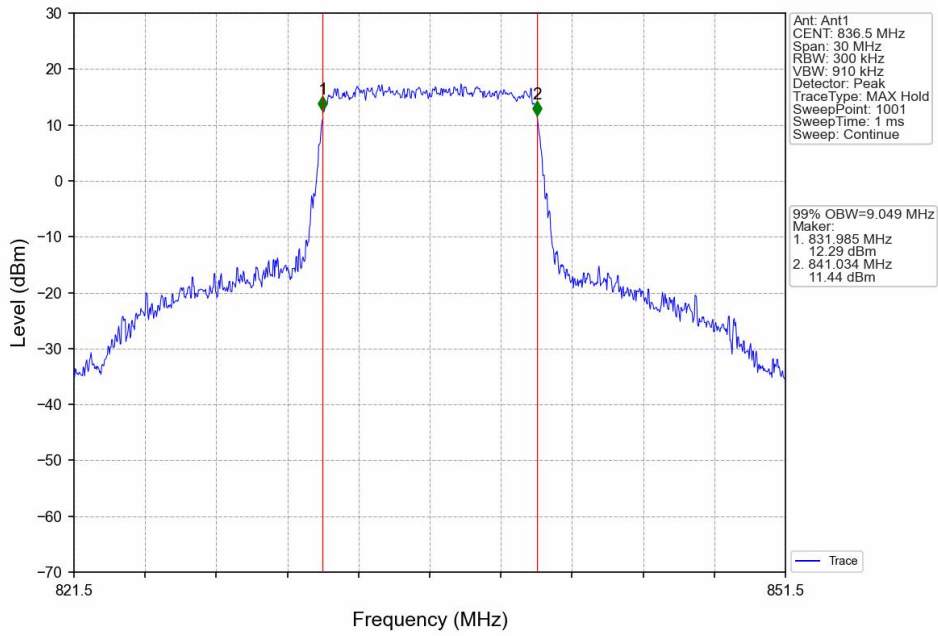
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



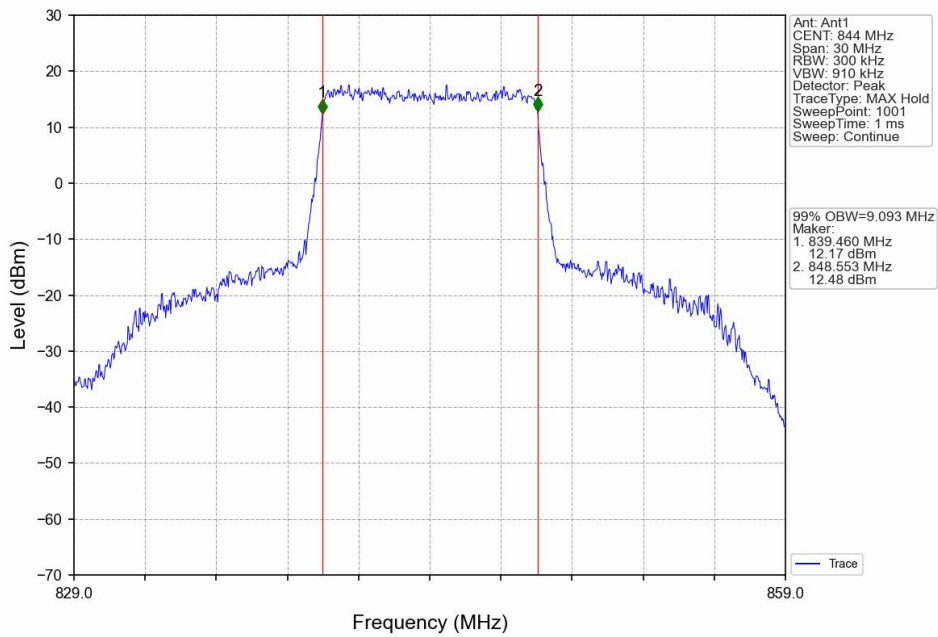
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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

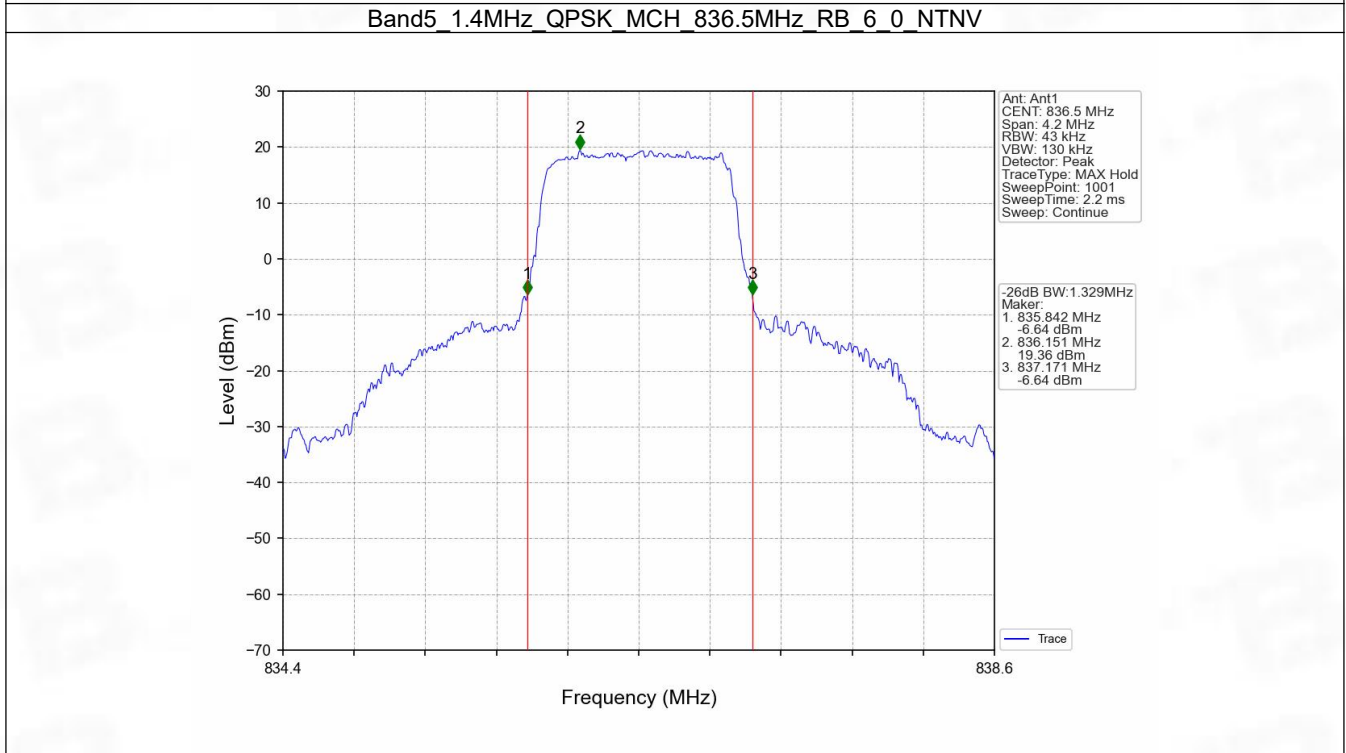
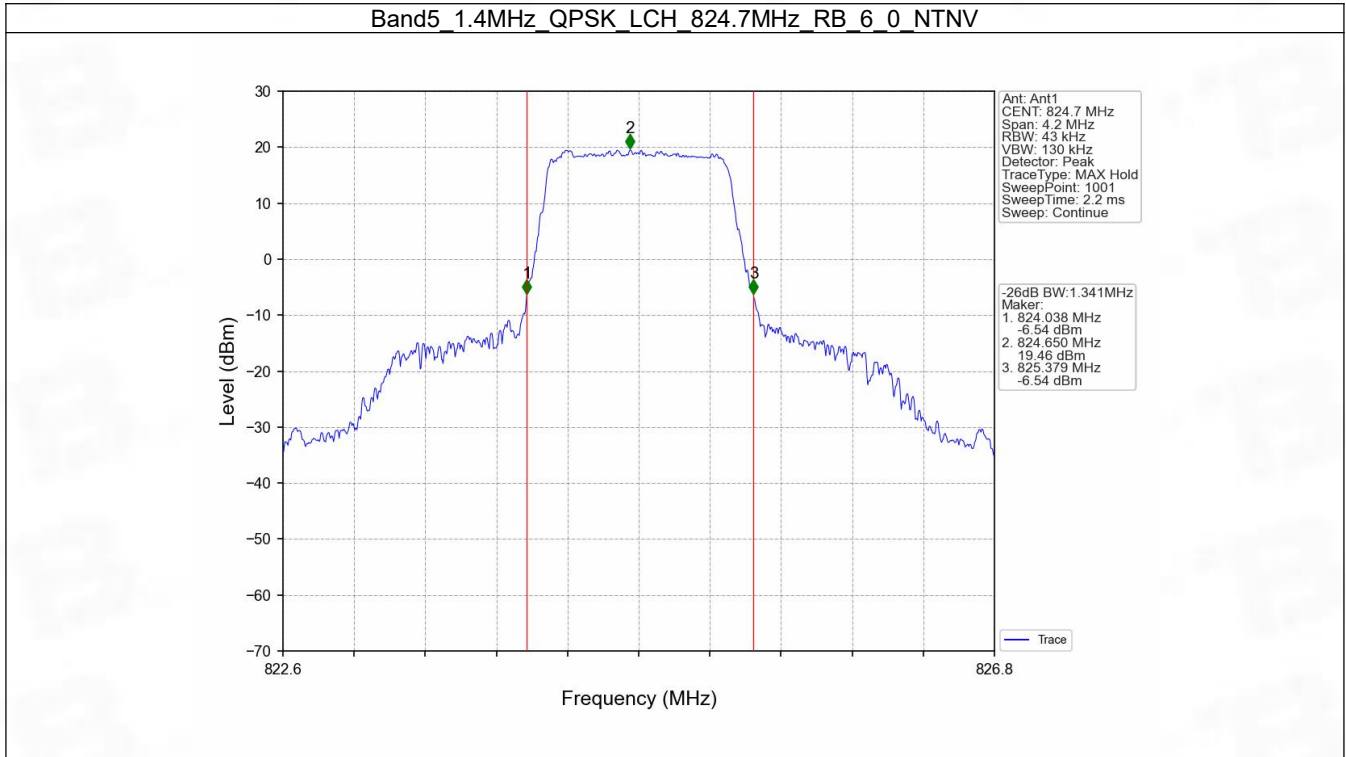


## 4.2 Band5\_XDB

### 4.2.1 Test Result

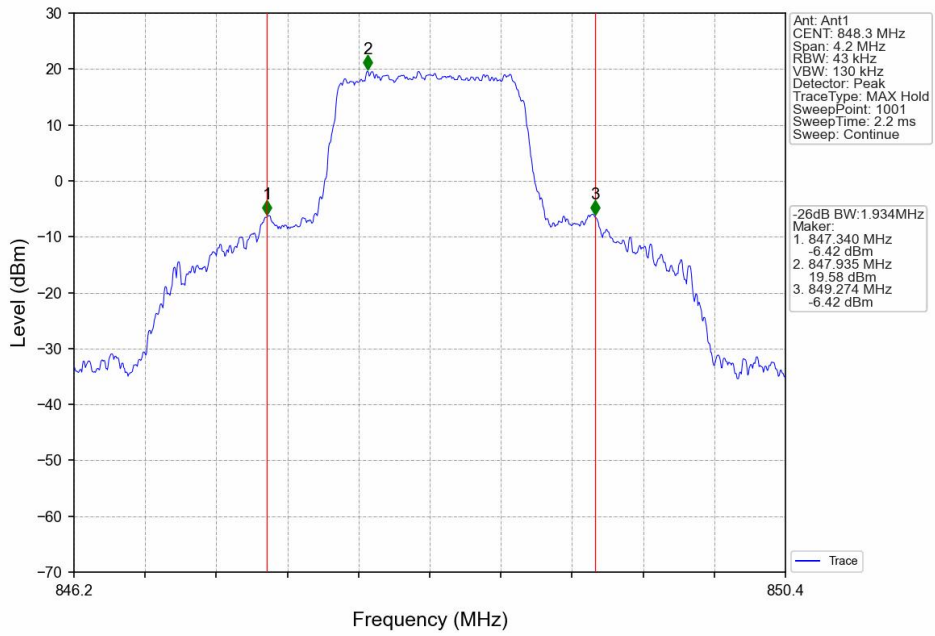
Band: 5 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	824.7	6	0	1.341	Pass
		836.5	6	0	1.329	Pass
		848.3	6	0	1.934	Pass
	16QAM	824.7	6	0	1.320	Pass
		836.5	6	0	1.329	Pass
		848.3	6	0	1.330	Pass
3	QPSK	825.5	15	0	2.978	Pass
		836.5	15	0	3.013	Pass
		847.5	15	0	3.034	Pass
	16QAM	825.5	15	0	3.017	Pass
		836.5	15	0	2.983	Pass
		847.5	15	0	2.980	Pass
5	QPSK	826.5	25	0	5.359	Pass
		836.5	25	0	5.247	Pass
		846.5	25	0	5.405	Pass
	16QAM	826.5	25	0	5.388	Pass
		836.5	25	0	5.221	Pass
		846.5	25	0	5.345	Pass
10	QPSK	829	50	0	10.558	Pass
		836.5	50	0	10.217	Pass
		844	50	0	10.477	Pass
	16QAM	829	50	0	10.318	Pass
		836.5	50	0	10.175	Pass
		844	50	0	10.270	Pass

## 4.2.2 Test Graph

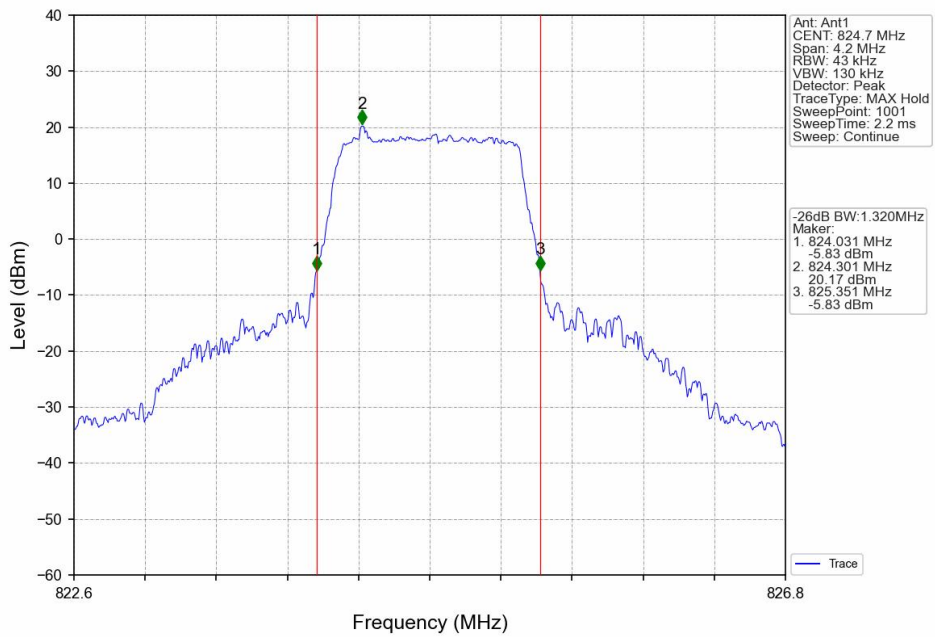




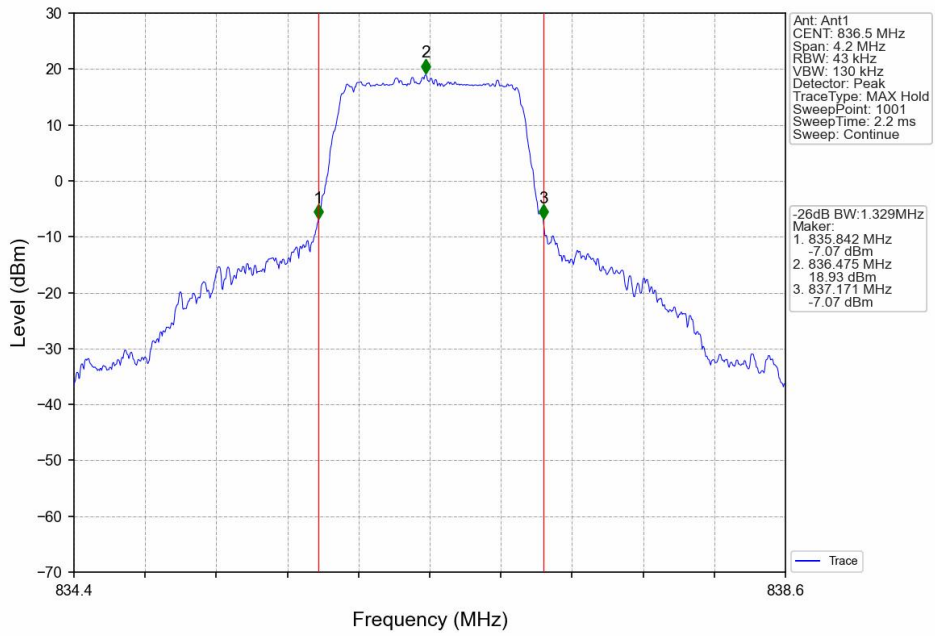
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



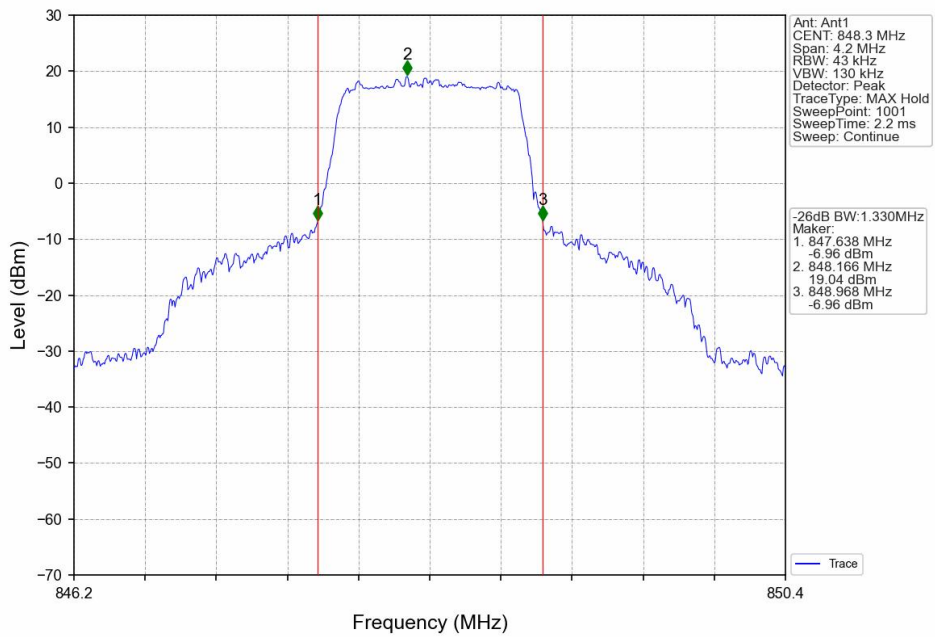
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



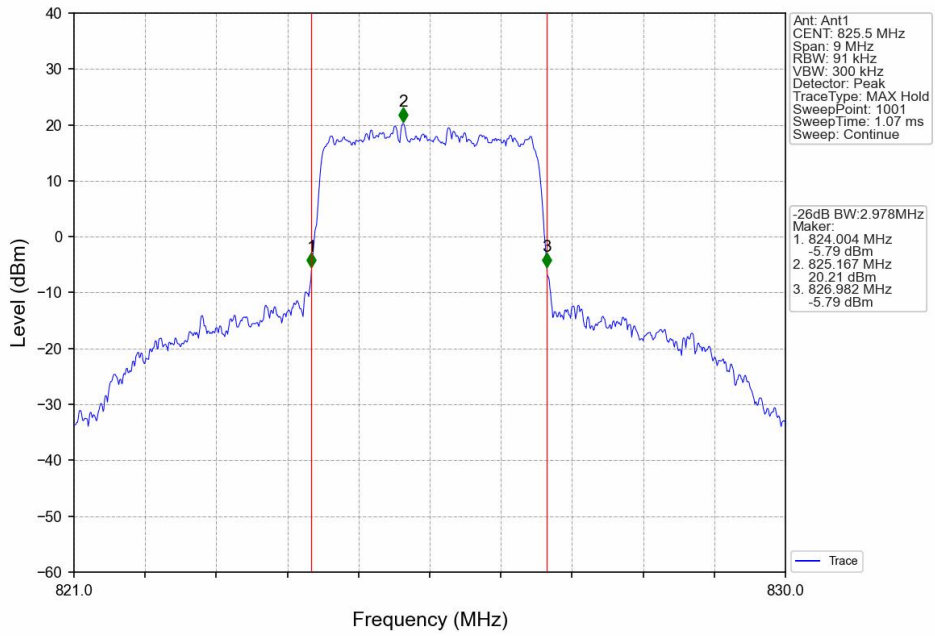
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



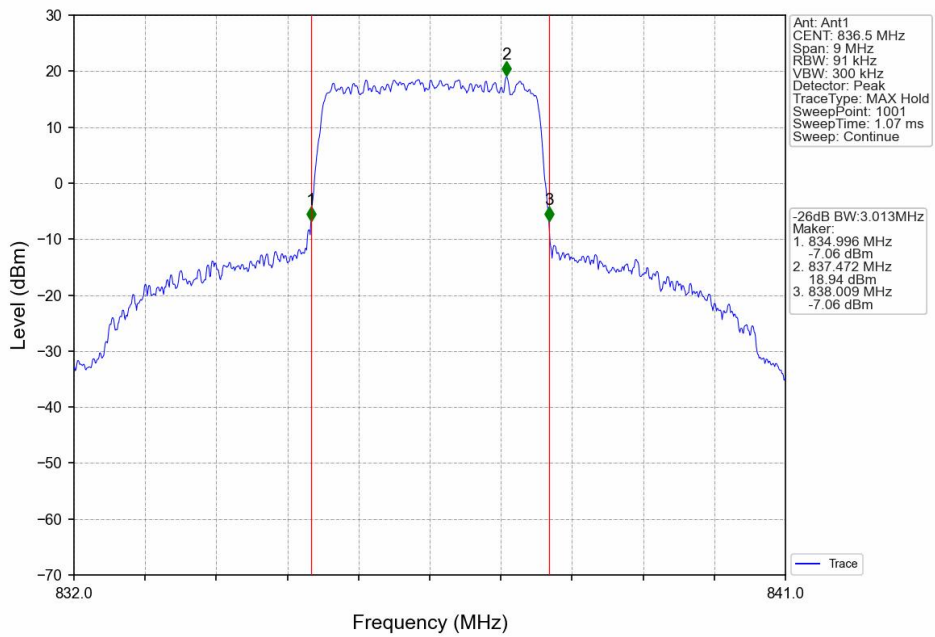
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



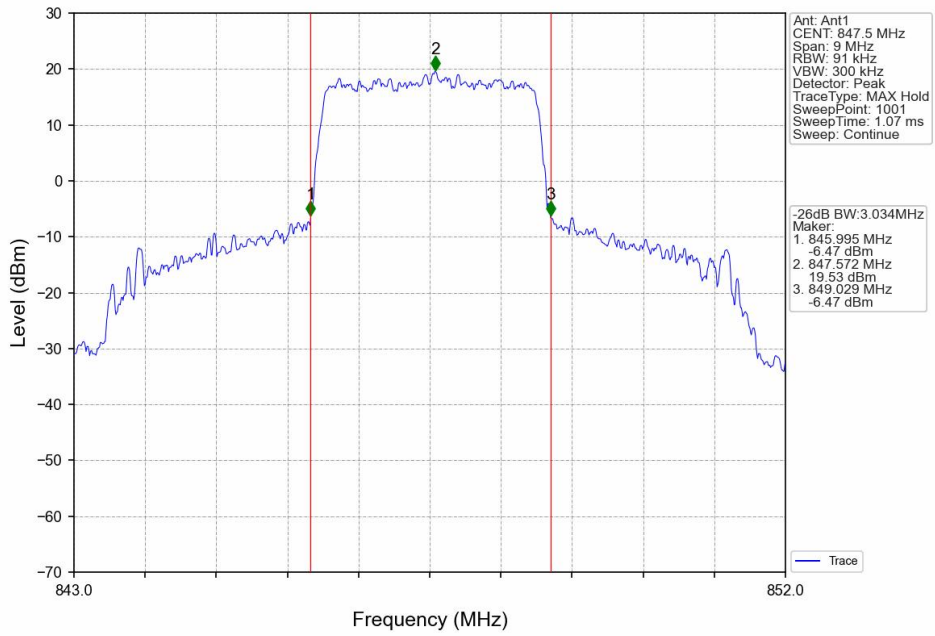
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



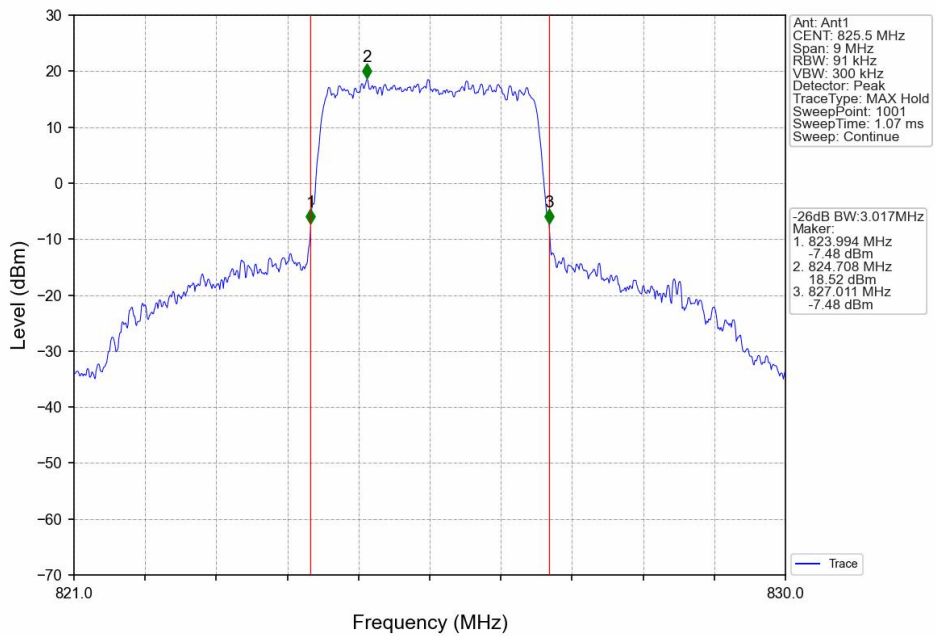
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



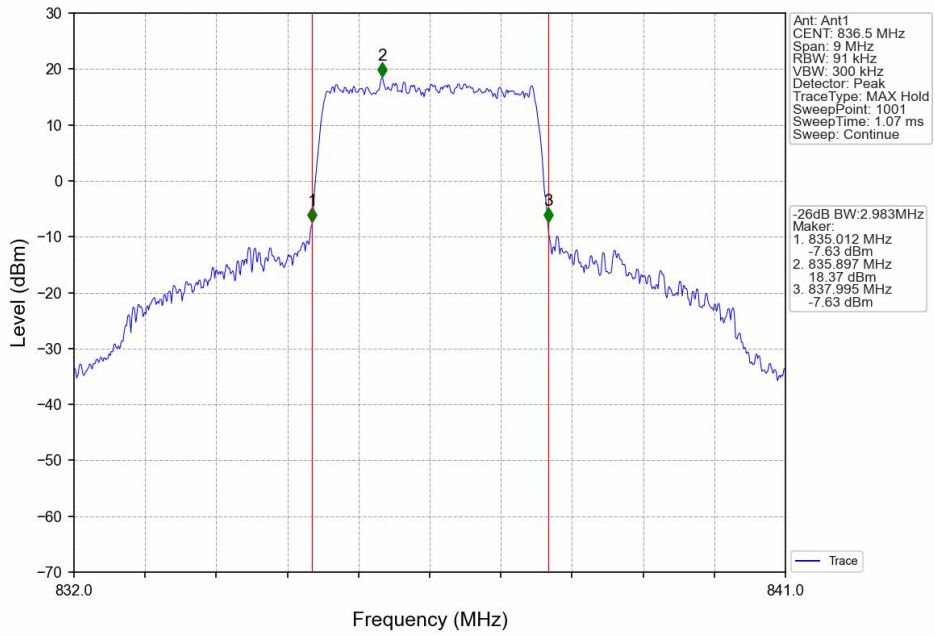
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



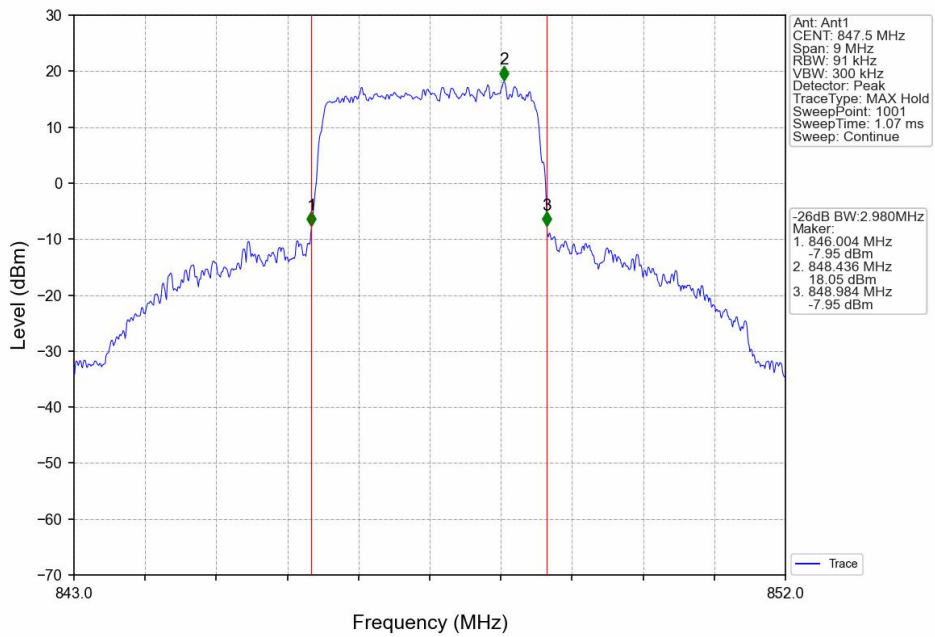
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



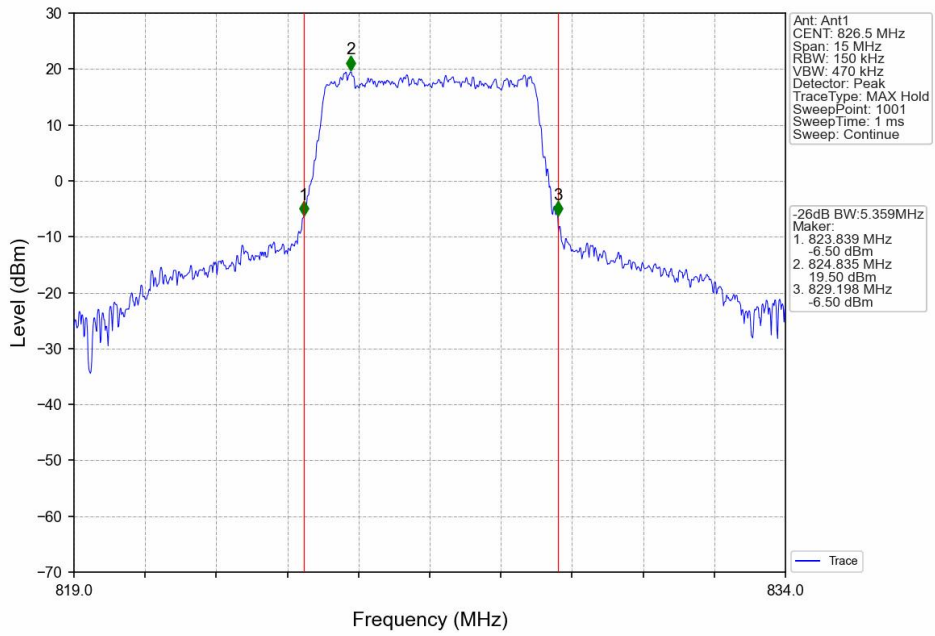
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



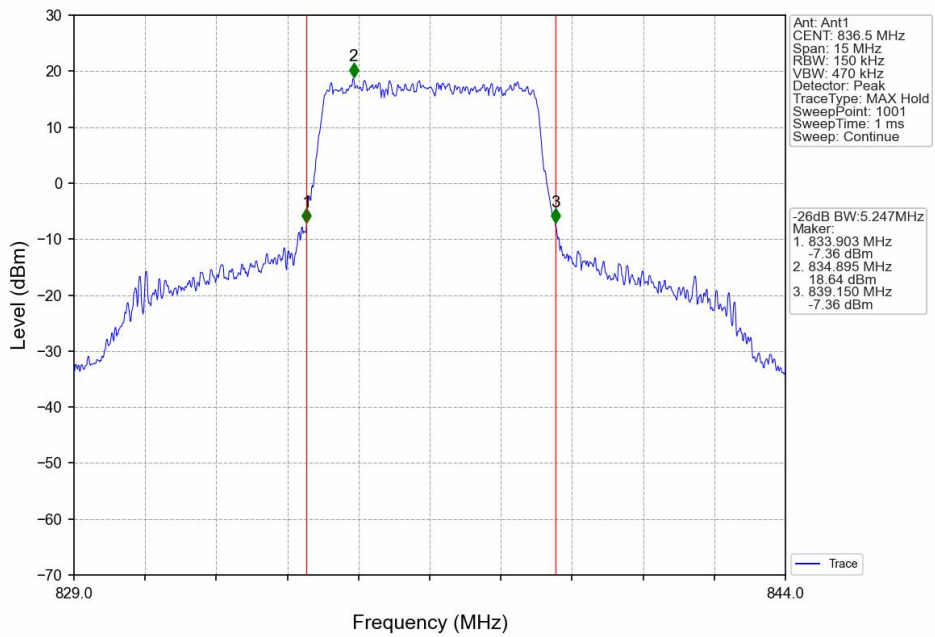
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



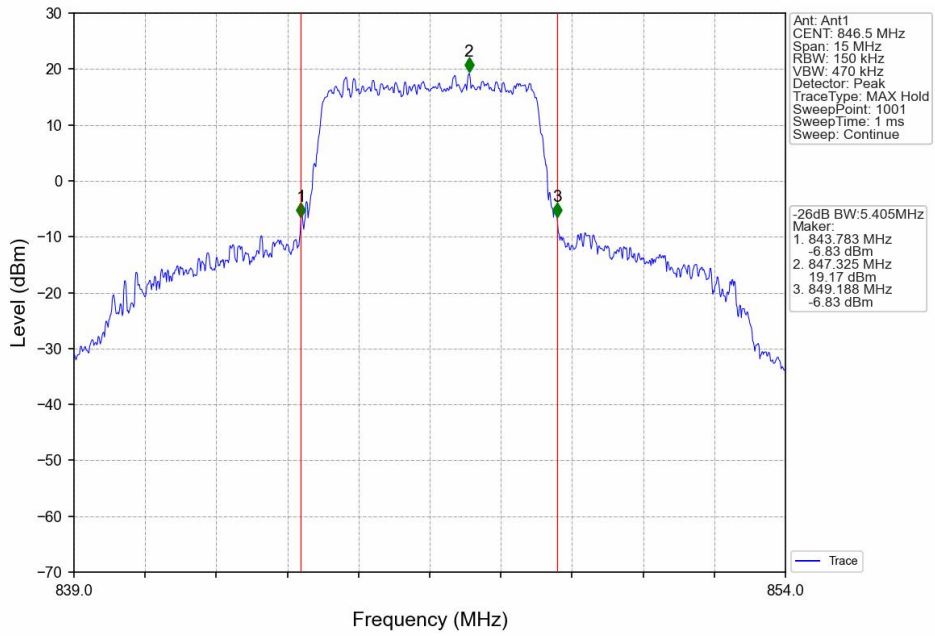
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



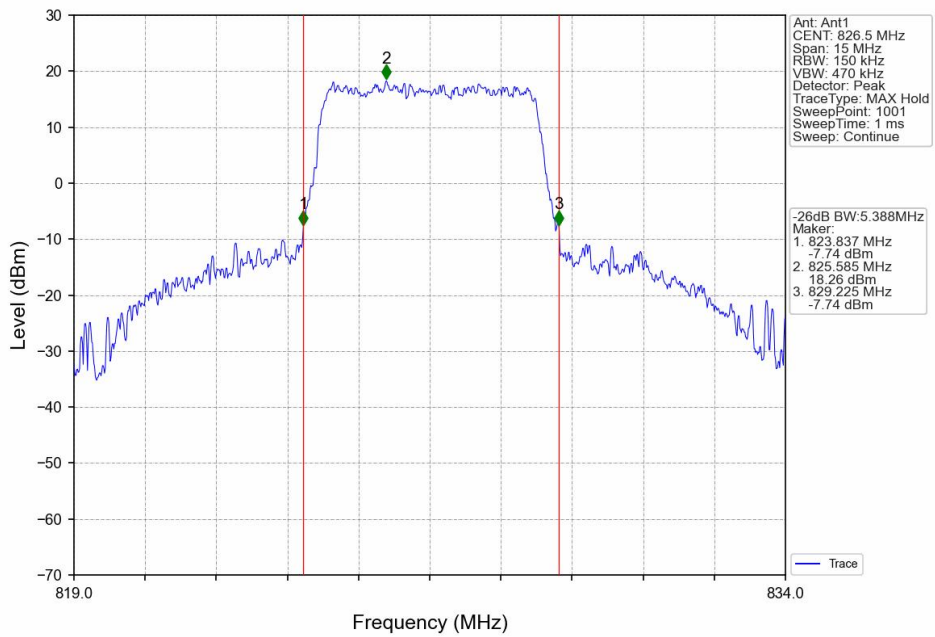
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



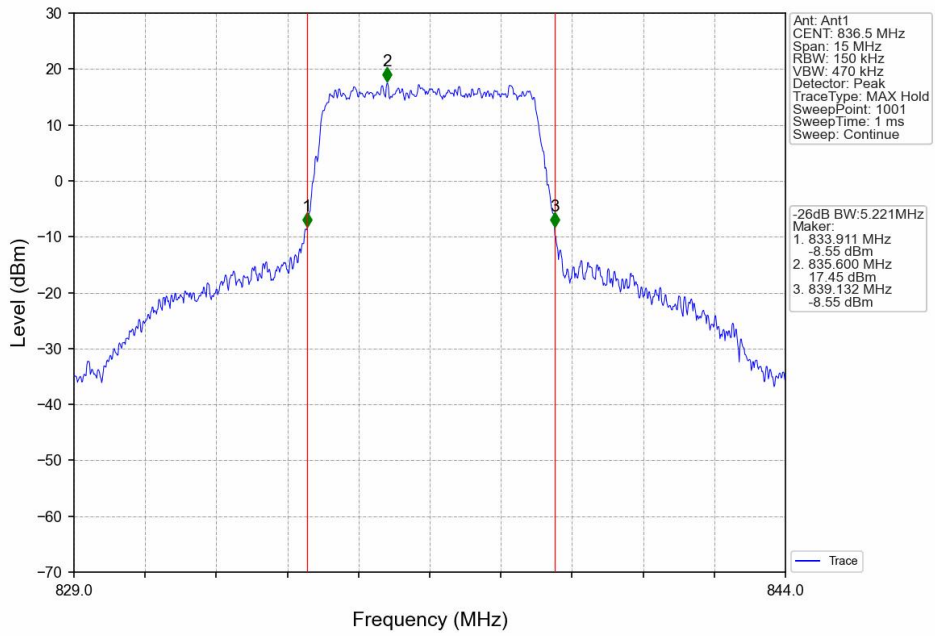
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



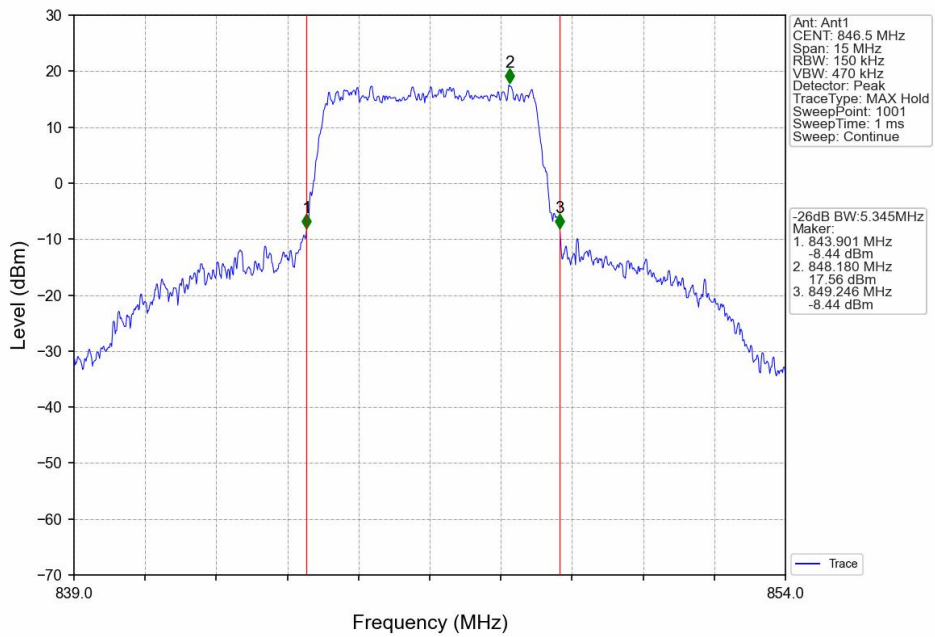
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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

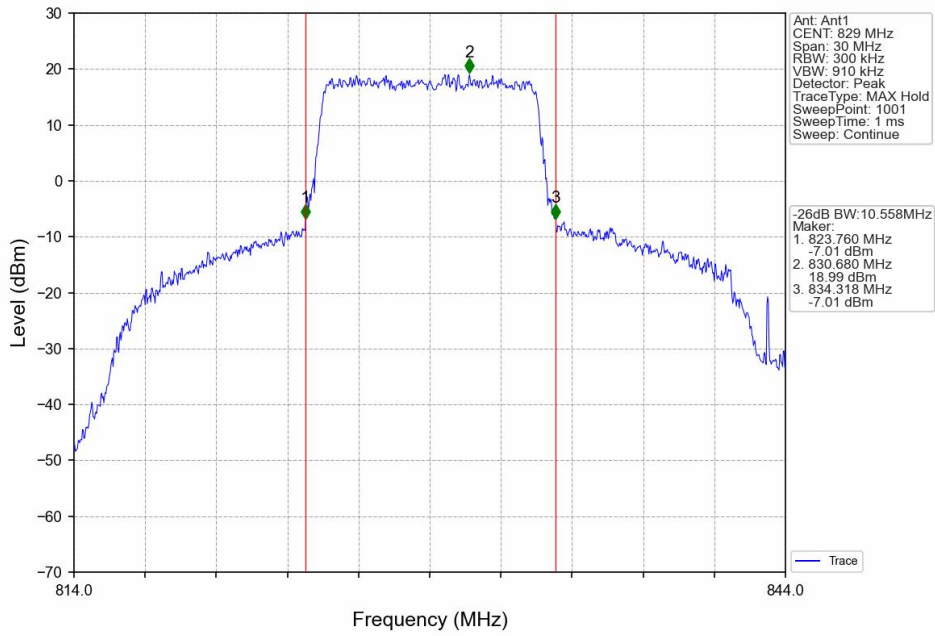


Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

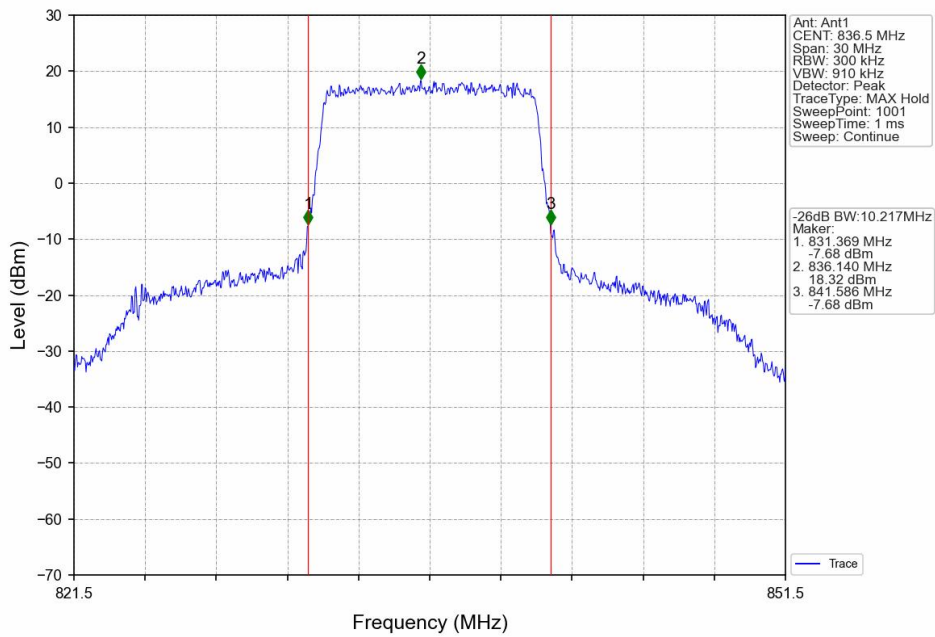




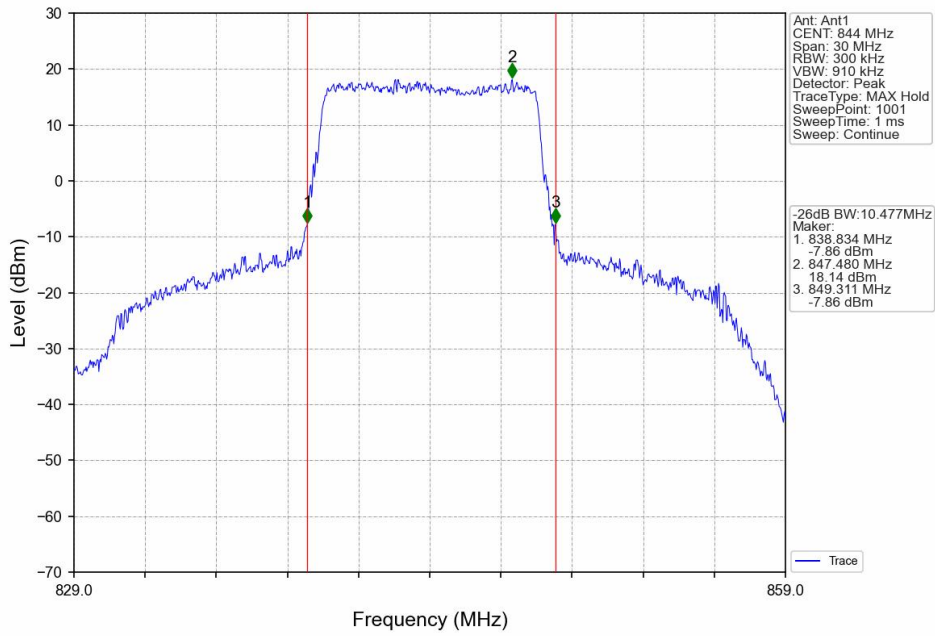
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



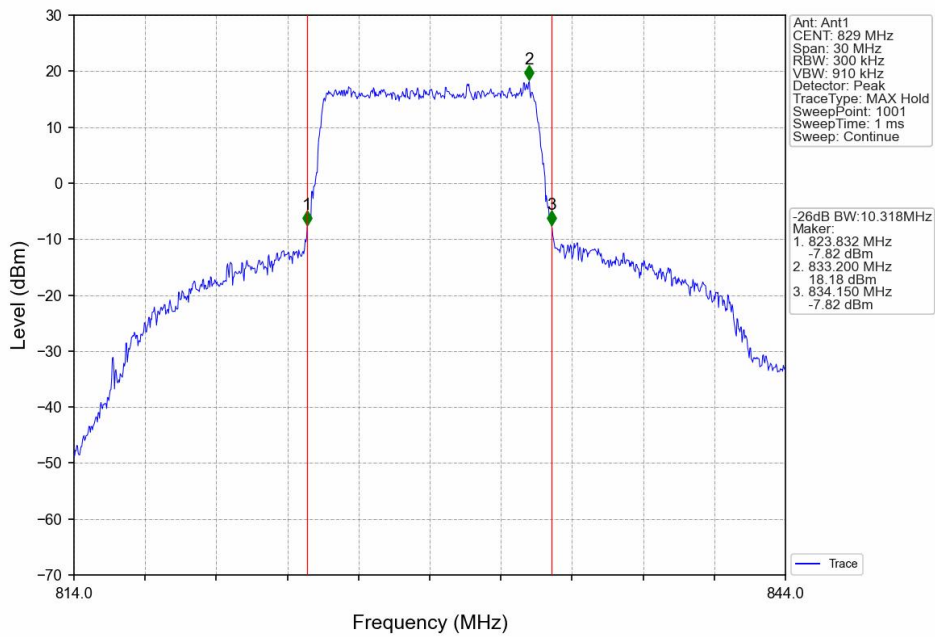
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



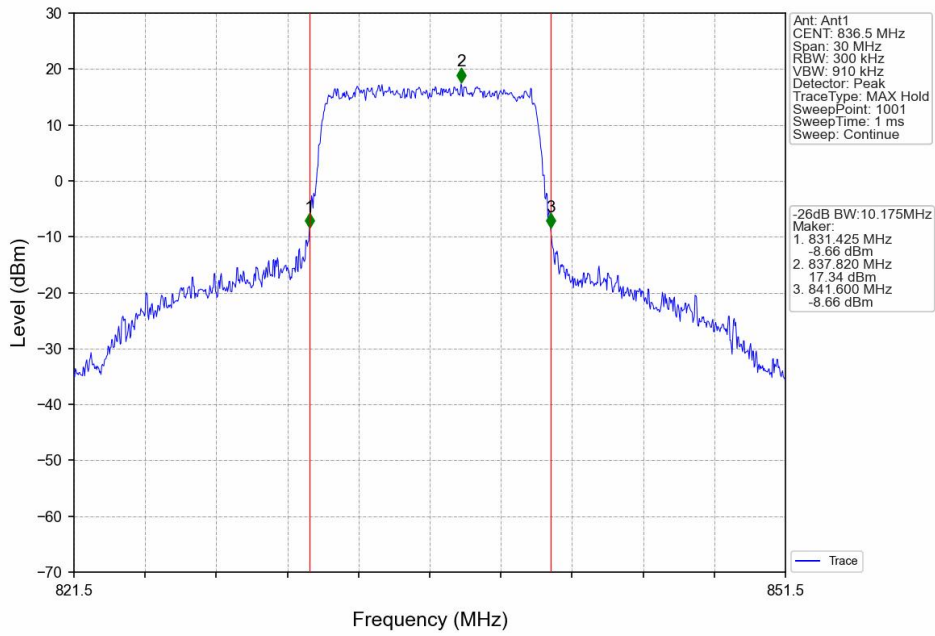
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



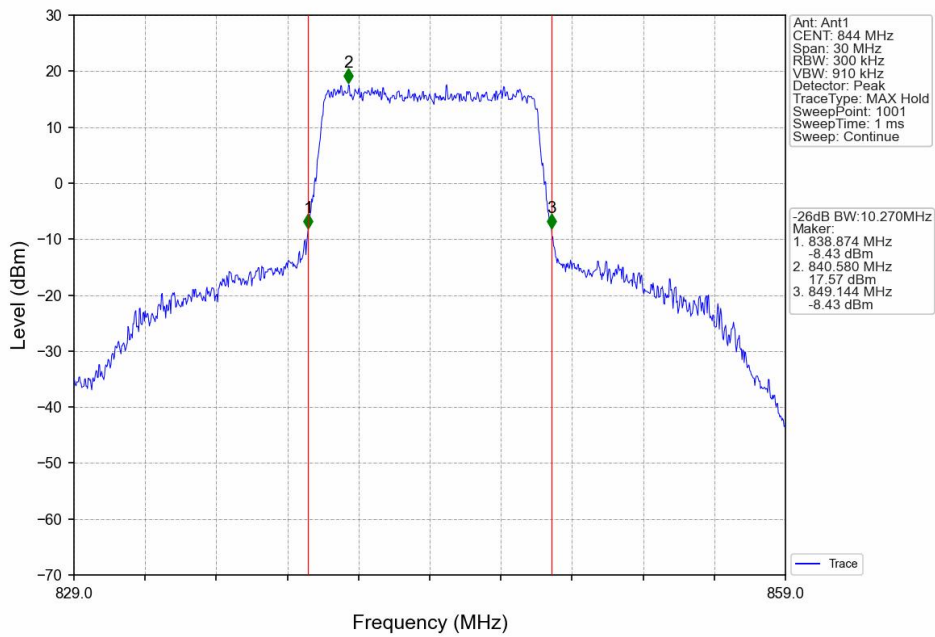
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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



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



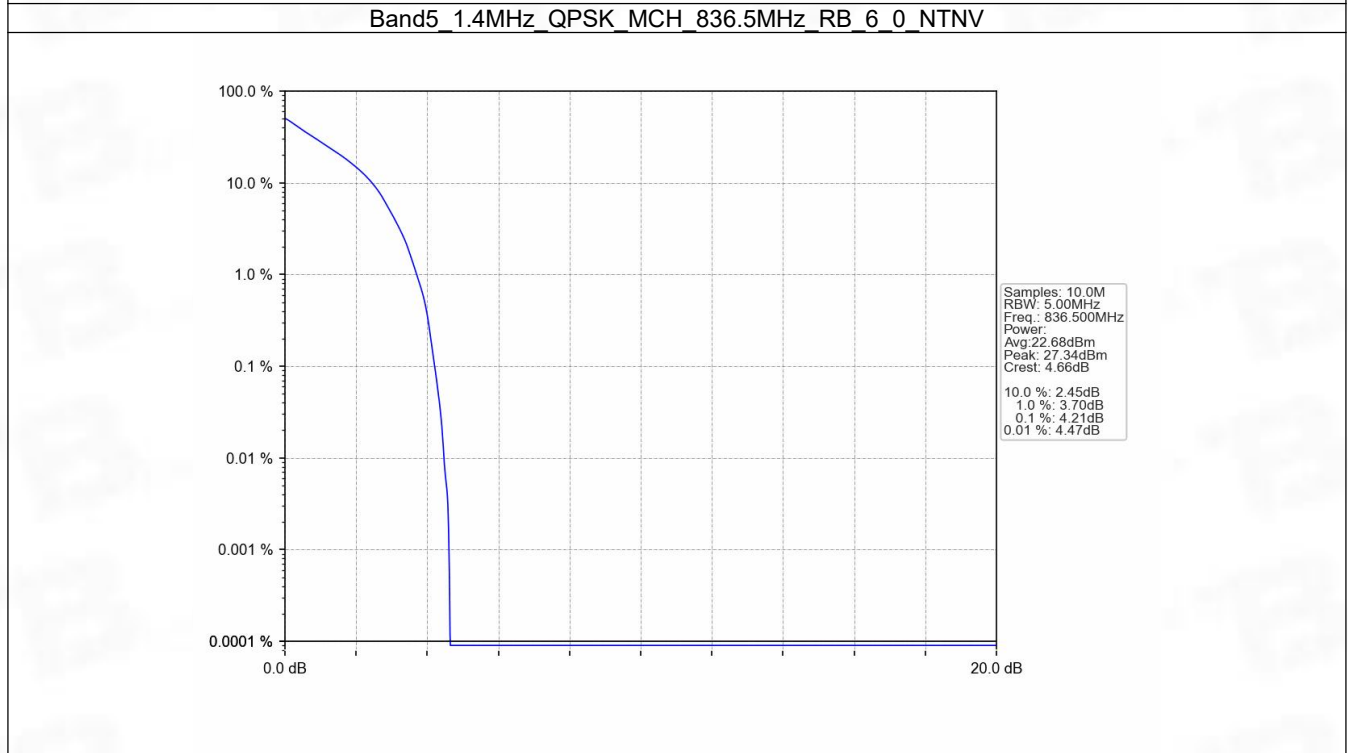
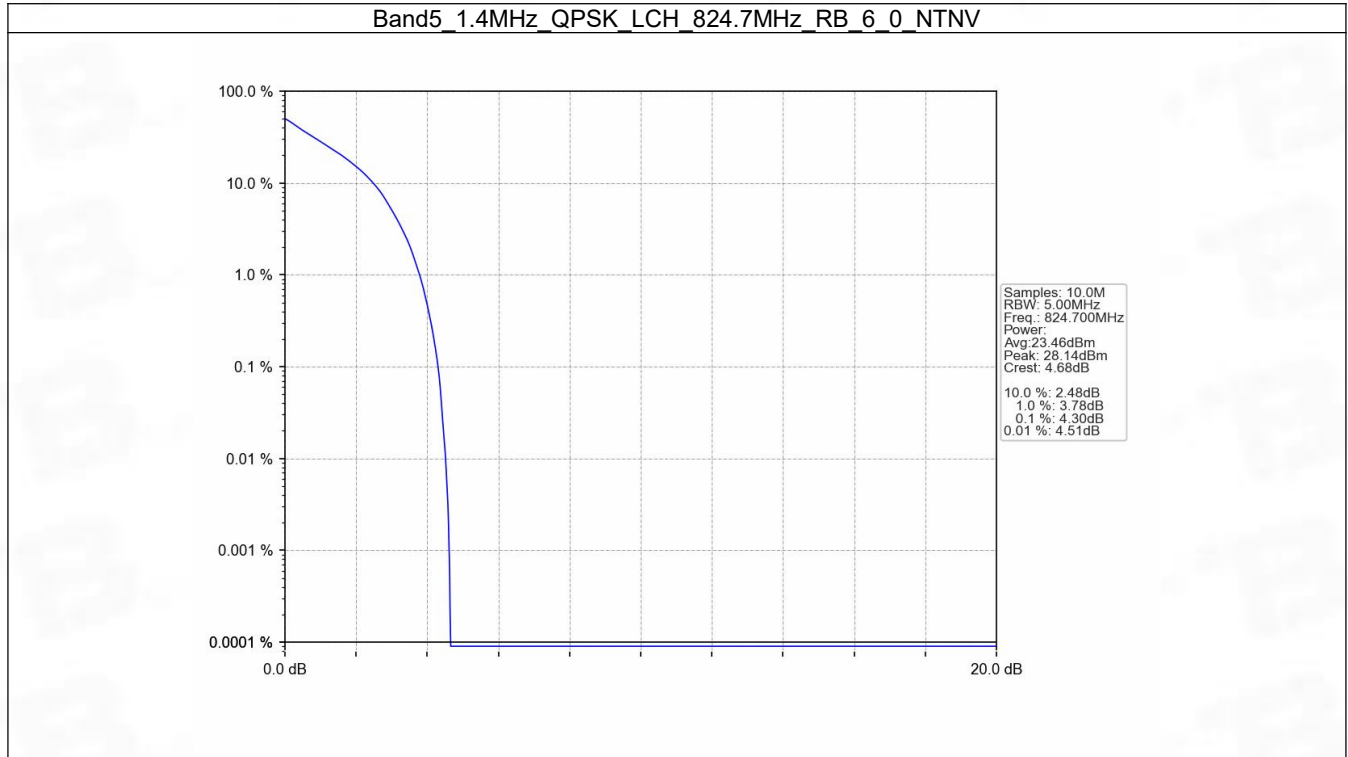
## 5. Peak-Average Ratio

### 5.1 B5\_1.4MHz

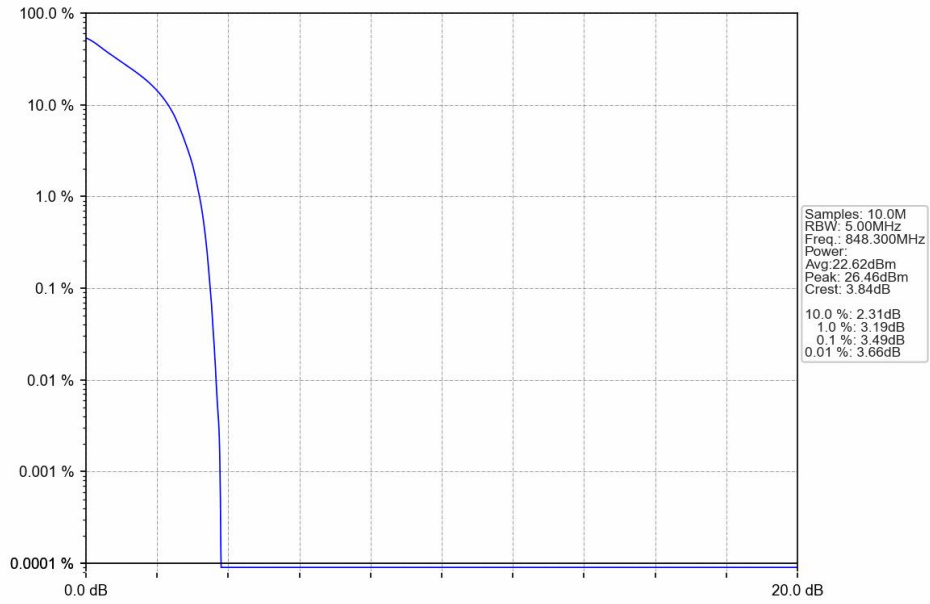
#### 5.1.1 Test Result

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	4.30	<=13	Pass
	836.5	6	0	4.21	<=13	Pass
	848.3	6	0	3.49	<=13	Pass
16QAM	824.7	6	0	5.42	<=13	Pass
	836.5	6	0	5.07	<=13	Pass
	848.3	6	0	4.42	<=13	Pass

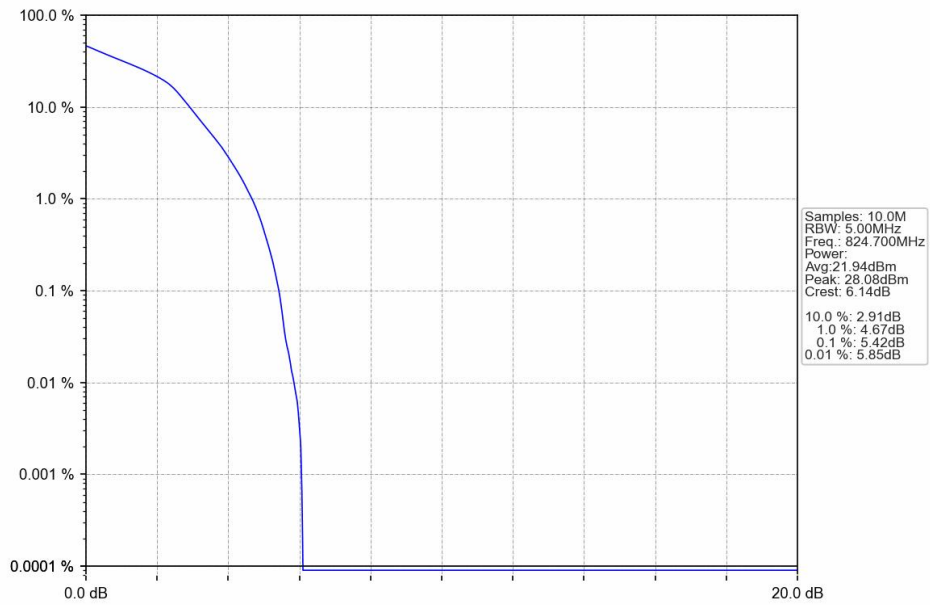
## 5.1.2 Test Graph



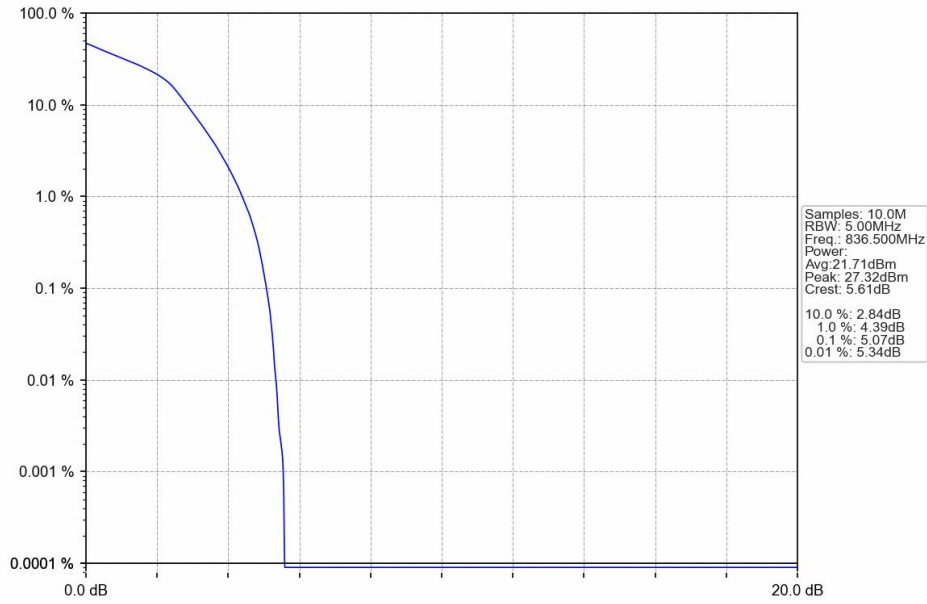
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN



Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTN



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



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

