1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B5_1.4MHz_ERP

Band: 5 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	22.35	-0.68	19.52	<=38.45	Pass
			2	22.45	-0.68	19.62	<=38.45	Pass
			5	22.40	-0.68	19.57	<=38.45	Pass
		3	0	22.40	-0.68	19.57	<=38.45	Pass
			2	22.47	-0.68	19.64	<=38.45	Pass
			3	22.40	-0.68	19.57	<=38.45	Pass
		6	0	21.49	-0.68	18.66	<=38.45	Pass
	836.5	1	0	22.16	-0.68	19.33	<=38.45	Pass
			2	22.28	-0.68	19.45	<=38.45	Pass
			5	22.17	-0.68	19.34	<=38.45	Pass
		3	0	22.26	-0.68	19.43	<=38.45	Pass
			2	22.32	-0.68	19.49	<=38.45	Pass
			3	22.28	-0.68	19.45	<=38.45	Pass
		6	0	21.26	-0.68	18.43	<=38.45	Pass
	848.3	1	0	22.22	-0.68	19.39	<=38.45	Pass
			2	22.41	-0.68	19.58	<=38.45	Pass
			5	22.35	-0.68	19.52	<=38.45	Pass
		3	0	22.11	-0.68	19.28	<=38.45	Pass
			2	22.16	-0.68	19.33	<=38.45	Pass
			3	22.10	-0.68	19.27	<=38.45	Pass
		6	0	21.31	-0.68	18.48	<=38.45	Pass
16QAM	824.7	1	0	21.44	-0.68	18.61	<=38.45	Pass
			2	21.54	-0.68	18.71	<=38.45	Pass
			5	21.45	-0.68	18.62	<=38.45	Pass
		3	0	21.28	-0.68	18.45	<=38.45	Pass
			2	21.33	-0.68	18.50	<=38.45	Pass
			3	21.31	-0.68	18.48	<=38.45	Pass
		6	0	20.44	-0.68	17.61	<=38.45	Pass
	836.5	1	0	21.12	-0.68	18.29	<=38.45	Pass
			2	21.19	-0.68	18.36	<=38.45	Pass
			5	21.12	-0.68	18.29	<=38.45	Pass
		3	0	21.35	-0.68	18.52	<=38.45	Pass
			2	21.41	-0.68	18.58	<=38.45	Pass
			3	21.40	-0.68	18.57	<=38.45	Pass
		6	0	20.26	-0.68	17.43	<=38.45	Pass
	848.3	1	0	21.03	-0.68	18.20	<=38.45	Pass
			2	21.16	-0.68	18.33	<=38.45	Pass
			5	21.10	-0.68	18.27	<=38.45	Pass
		3	0	21.05	-0.68	18.22	<=38.45	Pass
			2	21.06	-0.68	18.23	<=38.45	Pass
			3	20.98	-0.68	18.15	<=38.45	Pass
		6	0	20.08	-0.68	17.25	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B5_3MHz_ERP

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	22.52	-0.68	19.69	<=38.45	Pass
			7	22.65	-0.68	19.82	<=38.45	Pass
			14	22.53	-0.68	19.70	<=38.45	Pass
		8	0	21.48	-0.68	18.65	<=38.45	Pass
			4	21.49	-0.68	18.66	<=38.45	Pass
			7	21.42	-0.68	18.59	<=38.45	Pass
		15	0	21.39	-0.68	18.56	<=38.45	Pass
	836.5	1	0	22.30	-0.68	19.47	<=38.45	Pass
			7	22.42	-0.68	19.59	<=38.45	Pass
			14	22.22	-0.68	19.39	<=38.45	Pass
		8	0	21.30	-0.68	18.47	<=38.45	Pass
			4	21.31	-0.68	18.48	<=38.45	Pass
			7	21.26	-0.68	18.43	<=38.45	Pass
		15	0	21.25	-0.68	18.42	<=38.45	Pass
	847.5	1	0	22.20	-0.68	19.37	<=38.45	Pass
			7	22.37	-0.68	19.54	<=38.45	Pass
			14	22.37	-0.68	19.54	<=38.45	Pass
		8	0	21.19	-0.68	18.36	<=38.45	Pass
			4	21.26	-0.68	18.43	<=38.45	Pass
			7	21.22	-0.68	18.39	<=38.45	Pass
		15	0	21.15	-0.68	18.32	<=38.45	Pass
16QAM	825.5	1	0	21.40	-0.68	18.57	<=38.45	Pass
			7	21.52	-0.68	18.69	<=38.45	Pass
			14	21.37	-0.68	18.54	<=38.45	Pass
		8	0	20.49	-0.68	17.66	<=38.45	Pass
			4	20.50	-0.68	17.67	<=38.45	Pass
			7	20.44	-0.68	17.61	<=38.45	Pass
		15	0	20.43	-0.68	17.60	<=38.45	Pass
	836.5	1	0	21.40	-0.68	18.57	<=38.45	Pass
			7	21.53	-0.68	18.70	<=38.45	Pass
			14	21.39	-0.68	18.56	<=38.45	Pass
		8	0	20.24	-0.68	17.41	<=38.45	Pass
			4	20.31	-0.68	17.48	<=38.45	Pass
			7	20.25	-0.68	17.42	<=38.45	Pass
		15	0	20.23	-0.68	17.40	<=38.45	Pass
	847.5	1	0	21.64	-0.68	18.81	<=38.45	Pass
			7	21.67	-0.68	18.84	<=38.45	Pass
			14	21.47	-0.68	18.64	<=38.45	Pass
		8	0	20.36	-0.68	17.53	<=38.45	Pass
			4	20.37	-0.68	17.54	<=38.45	Pass
			7	20.30	-0.68	17.47	<=38.45	Pass
		15	0	20.22	-0.68	17.39	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B5_5MHz_ERP

Band: 5 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	22.35	-0.68	19.52	<=38.45	Pass
			13	22.47	-0.68	19.64	<=38.45	Pass
			24	22.32	-0.68	19.49	<=38.45	Pass
		12	0	21.40	-0.68	18.57	<=38.45	Pass
			6	21.42	-0.68	18.59	<=38.45	Pass
			13	21.37	-0.68	18.54	<=38.45	Pass

		25	0	21.36	-0.68	18.53	<=38.45	Pass
	836.5	1	0	22.22	-0.68	19.39	<=38.45	Pass
			13	22.28	-0.68	19.45	<=38.45	Pass
			24	22.12	-0.68	19.29	<=38.45	Pass
		12	0	21.24	-0.68	18.41	<=38.45	Pass
			6	21.26	-0.68	18.43	<=38.45	Pass
			13	21.22	-0.68	18.39	<=38.45	Pass
		25	0	21.22	-0.68	18.39	<=38.45	Pass
	846.5	1	0	22.09	-0.68	19.26	<=38.45	Pass
			13	22.22	-0.68	19.39	<=38.45	Pass
			24	22.24	-0.68	19.41	<=38.45	Pass
		12	0	21.14	-0.68	18.31	<=38.45	Pass
			6	21.19	-0.68	18.36	<=38.45	Pass
			13	21.06	-0.68	18.23	<=38.45	Pass
		25	0	21.13	-0.68	18.30	<=38.45	Pass
16QAM	826.5	1	0	21.33	-0.68	18.50	<=38.45	Pass
			13	21.43	-0.68	18.60	<=38.45	Pass
			24	21.30	-0.68	18.47	<=38.45	Pass
		12	0	20.37	-0.68	17.54	<=38.45	Pass
			6	20.38	-0.68	17.55	<=38.45	Pass
			13	20.32	-0.68	17.49	<=38.45	Pass
		25	0	20.40	-0.68	17.57	<=38.45	Pass
	836.5	1	0	21.34	-0.68	18.51	<=38.45	Pass
			13	21.46	-0.68	18.63	<=38.45	Pass
			24	21.37	-0.68	18.54	<=38.45	Pass
		12	0	20.28	-0.68	17.45	<=38.45	Pass
			6	20.30	-0.68	17.47	<=38.45	Pass
			13	20.28	-0.68	17.45	<=38.45	Pass
		25	0	20.25	-0.68	17.42	<=38.45	Pass
	846.5	1	0	20.97	-0.68	18.14	<=38.45	Pass
			13	21.02	-0.68	18.19	<=38.45	Pass
			24	20.88	-0.68	18.05	<=38.45	Pass
		12	0	20.19	-0.68	17.36	<=38.45	Pass
			6	20.22	-0.68	17.39	<=38.45	Pass
			13	20.02	-0.68	17.19	<=38.45	Pass
		25	0	20.19	-0.68	17.36	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.4 B5_10MHz_ERP

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	22.44	-0.68	19.61	<=38.45	Pass
			25	22.61	-0.68	19.78	<=38.45	Pass
			49	22.43	-0.68	19.60	<=38.45	Pass
		25	0	21.41	-0.68	18.58	<=38.45	Pass
			13	21.35	-0.68	18.52	<=38.45	Pass
			25	21.29	-0.68	18.46	<=38.45	Pass
		50	0	21.34	-0.68	18.51	<=38.45	Pass
	836.5	1	0	22.35	-0.68	19.52	<=38.45	Pass
			25	22.42	-0.68	19.59	<=38.45	Pass
			49	22.18	-0.68	19.35	<=38.45	Pass
		25	0	21.34	-0.68	18.51	<=38.45	Pass
			13	21.28	-0.68	18.45	<=38.45	Pass
			25	21.24	-0.68	18.41	<=38.45	Pass
		50	0	21.26	-0.68	18.43	<=38.45	Pass

	844	1	0	22.21	-0.68	19.38	<=38.45	Pass
			25	22.29	-0.68	19.46	<=38.45	Pass
			49	22.35	-0.68	19.52	<=38.45	Pass
		25	0	21.25	-0.68	18.42	<=38.45	Pass
			13	21.23	-0.68	18.40	<=38.45	Pass
			25	21.09	-0.68	18.26	<=38.45	Pass
		50	0	21.20	-0.68	18.37	<=38.45	Pass
16QAM	829	1	0	21.32	-0.68	18.49	<=38.45	Pass
			25	21.46	-0.68	18.63	<=38.45	Pass
			49	21.26	-0.68	18.43	<=38.45	Pass
		25	0	20.46	-0.68	17.63	<=38.45	Pass
			13	20.41	-0.68	17.58	<=38.45	Pass
			25	20.38	-0.68	17.55	<=38.45	Pass
		50	0	20.35	-0.68	17.52	<=38.45	Pass
	836.5	1	0	21.40	-0.68	18.57	<=38.45	Pass
			25	21.53	-0.68	18.70	<=38.45	Pass
			49	21.35	-0.68	18.52	<=38.45	Pass
		25	0	20.36	-0.68	17.53	<=38.45	Pass
			13	20.33	-0.68	17.50	<=38.45	Pass
			25	20.31	-0.68	17.48	<=38.45	Pass
		50	0	20.31	-0.68	17.48	<=38.45	Pass
	844	1	0	21.69	-0.68	18.86	<=38.45	Pass
			25	21.83	-0.68	19.00	<=38.45	Pass
			49	21.48	-0.68	18.65	<=38.45	Pass
		25	0	20.36	-0.68	17.53	<=38.45	Pass
			13	20.29	-0.68	17.46	<=38.45	Pass
			25	20.19	-0.68	17.36	<=38.45	Pass
		50	0	20.23	-0.68	17.40	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B5_1.4MHz

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	-13.962	-0.0169	-2.5 to 2.5	Pass
					3.85	-3.719	-0.0045	-2.5 to 2.5	Pass
					4.43	-2.975	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-4.091	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	-4.449	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-3.476	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-24.118	-0.0292	-2.5 to 2.5	Pass
				10	3.85	-6.309	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-7.238	-0.0088	-2.5 to 2.5	Pass
				40	3.85	-4.706	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-3.662	-0.0044	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-8.869	-0.0106	-2.5 to 2.5	Pass
					3.85	-2.947	-0.0035	-2.5 to 2.5	Pass
					4.43	-2.918	-0.0035	-2.5 to 2.5	Pass
				-30	3.85	-4.120	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-7.668	-0.0092	-2.5 to 2.5	Pass
				-10	3.85	-1.802	-0.0022	-2.5 to 2.5	Pass

				0	3.85	-6.838	-0.0082	-2.5 to 2.5	Pass
				10	3.85	-2.918	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-4.878	-0.0058	-2.5 to 2.5	Pass
				40	3.85	-7.281	-0.0087	-2.5 to 2.5	Pass
				50	3.85	-3.619	-0.0043	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-9.370	-0.0110	-2.5 to 2.5	Pass
					3.85	-6.995	-0.0082	-2.5 to 2.5	Pass
					4.43	-3.362	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	-1.030	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-5.336	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-4.506	-0.0053	-2.5 to 2.5	Pass
				0	3.85	-6.008	-0.0071	-2.5 to 2.5	Pass
				10	3.85	-4.778	-0.0056	-2.5 to 2.5	Pass
				30	3.85	-5.822	-0.0069	-2.5 to 2.5	Pass
				40	3.85	-6.652	-0.0078	-2.5 to 2.5	Pass
				50	3.85	-7.954	-0.0094	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	-9.427	-0.0114	-2.5 to 2.5	Pass
					3.85	-6.881	-0.0083	-2.5 to 2.5	Pass
					4.43	-5.093	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-10.386	-0.0126	-2.5 to 2.5	Pass
				-20	3.85	-5.908	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-4.978	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-4.621	-0.0056	-2.5 to 2.5	Pass
				10	3.85	-3.791	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-6.180	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-1.330	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-3.905	-0.0047	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-3.376	-0.0040	-2.5 to 2.5	Pass
					3.85	-5.207	-0.0062	-2.5 to 2.5	Pass
					4.43	-5.450	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-6.652	-0.0080	-2.5 to 2.5	Pass
				-20	3.85	-2.303	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-7.453	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-1.974	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-4.821	-0.0058	-2.5 to 2.5	Pass
				30	3.85	-9.627	-0.0115	-2.5 to 2.5	Pass
				40	3.85	-5.779	-0.0069	-2.5 to 2.5	Pass
				50	3.85	-6.452	-0.0077	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-5.336	-0.0063	-2.5 to 2.5	Pass
					3.85	-1.402	-0.0017	-2.5 to 2.5	Pass
					4.43	0.844	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-7.968	-0.0094	-2.5 to 2.5	Pass
				-20	3.85	-4.950	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-3.633	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-1.388	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-4.864	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-8.340	-0.0098	-2.5 to 2.5	Pass
				40	3.85	-2.060	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-5.879	-0.0069	-2.5 to 2.5	Pass

2.1.2 B5_3MHz

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	-12.174	-0.0147	-2.5 to 2.5	Pass
					3.85	-6.123	-0.0074	-2.5 to 2.5	Pass

					4.43	-2.160	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-8.726	-0.0106	-2.5 to 2.5	Pass
				-20	3.85	-5.093	-0.0062	-2.5 to 2.5	Pass
				-10	3.85	-6.022	-0.0073	-2.5 to 2.5	Pass
				0	3.85	-5.608	-0.0068	-2.5 to 2.5	Pass
				10	3.85	-9.542	-0.0116	-2.5 to 2.5	Pass
				30	3.85	-7.539	-0.0091	-2.5 to 2.5	Pass
				40	3.85	-8.011	-0.0097	-2.5 to 2.5	Pass
				50	3.85	-4.706	-0.0057	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-6.008	-0.0072	-2.5 to 2.5	Pass
					3.85	-9.871	-0.0118	-2.5 to 2.5	Pass
					4.43	-7.625	-0.0091	-2.5 to 2.5	Pass
				-30	3.85	-6.838	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-3.963	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-3.862	-0.0046	-2.5 to 2.5	Pass
				0	3.85	-8.540	-0.0102	-2.5 to 2.5	Pass
				10	3.85	-4.048	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-4.134	-0.0049	-2.5 to 2.5	Pass
				40	3.85	-3.648	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-2.046	-0.0024	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-11.387	-0.0134	-2.5 to 2.5	Pass
					3.85	-6.237	-0.0074	-2.5 to 2.5	Pass
					4.43	-5.264	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-5.507	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-6.108	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-4.277	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-6.709	-0.0079	-2.5 to 2.5	Pass
				10	3.85	-3.748	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-7.739	-0.0091	-2.5 to 2.5	Pass
				40	3.85	-5.364	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-3.419	-0.0040	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	-5.693	-0.0069	-2.5 to 2.5	Pass
					3.85	-7.439	-0.0090	-2.5 to 2.5	Pass
					4.43	-9.398	-0.0114	-2.5 to 2.5	Pass
				-30	3.85	-4.992	-0.0060	-2.5 to 2.5	Pass
				-20	3.85	-5.679	-0.0069	-2.5 to 2.5	Pass
				-10	3.85	-5.550	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-9.341	-0.0113	-2.5 to 2.5	Pass
				10	3.85	-4.950	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-10.343	-0.0125	-2.5 to 2.5	Pass
				40	3.85	-10.686	-0.0129	-2.5 to 2.5	Pass
				50	3.85	-6.580	-0.0080	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-7.067	-0.0084	-2.5 to 2.5	Pass
					3.85	-5.751	-0.0069	-2.5 to 2.5	Pass
					4.43	-2.360	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-3.362	-0.0040	-2.5 to 2.5	Pass
				-20	3.85	-4.020	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-7.281	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-1.945	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-3.133	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-8.140	-0.0097	-2.5 to 2.5	Pass
				40	3.85	-0.615	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-5.407	-0.0065	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-8.483	-0.0100	-2.5 to 2.5	Pass
					3.85	-6.251	-0.0074	-2.5 to 2.5	Pass
					4.43	-4.163	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-7.296	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-1.602	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-5.021	-0.0059	-2.5 to 2.5	Pass

				0	3.85	-8.454	-0.0100	-2.5 to 2.5	Pass
				10	3.85	-3.991	-0.0047	-2.5 to 2.5	Pass
				30	3.85	-4.363	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-5.994	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-5.751	-0.0068	-2.5 to 2.5	Pass

2.1.3 B5_5MHz

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	-6.824	-0.0083	-2.5 to 2.5	Pass
					3.85	-8.826	-0.0107	-2.5 to 2.5	Pass
					4.43	-5.293	-0.0064	-2.5 to 2.5	Pass
				-30	3.85	-10.986	-0.0133	-2.5 to 2.5	Pass
				-20	3.85	-5.436	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-6.180	-0.0075	-2.5 to 2.5	Pass
				0	3.85	-5.193	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-6.781	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-10.443	-0.0126	-2.5 to 2.5	Pass
				40	3.85	-8.368	-0.0101	-2.5 to 2.5	Pass
				50	3.85	-5.651	-0.0068	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-7.939	-0.0095	-2.5 to 2.5	Pass
					3.85	-5.064	-0.0061	-2.5 to 2.5	Pass
					4.43	-11.187	-0.0134	-2.5 to 2.5	Pass
				-30	3.85	-5.951	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-3.891	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-3.076	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-5.794	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-8.497	-0.0102	-2.5 to 2.5	Pass
				30	3.85	-5.722	-0.0068	-2.5 to 2.5	Pass
				40	3.85	-2.832	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-1.159	-0.0014	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-7.582	-0.0090	-2.5 to 2.5	Pass
					3.85	-7.782	-0.0092	-2.5 to 2.5	Pass
					4.43	-6.309	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-0.544	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-8.483	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-8.583	-0.0101	-2.5 to 2.5	Pass
				0	3.85	-7.124	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-9.556	-0.0113	-2.5 to 2.5	Pass
				30	3.85	-7.253	-0.0086	-2.5 to 2.5	Pass
				40	3.85	-5.336	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-4.492	-0.0053	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-4.406	-0.0053	-2.5 to 2.5	Pass
					3.85	-8.912	-0.0108	-2.5 to 2.5	Pass
					4.43	-6.123	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	-6.351	-0.0077	-2.5 to 2.5	Pass
				-20	3.85	-5.207	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-7.482	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-6.223	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-8.626	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-6.738	-0.0082	-2.5 to 2.5	Pass
				40	3.85	-5.150	-0.0062	-2.5 to 2.5	Pass
				50	3.85	-7.825	-0.0095	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-7.753	-0.0093	-2.5 to 2.5	Pass
					3.85	-5.965	-0.0071	-2.5 to 2.5	Pass

					4.43	-6.194	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	0.072	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-6.380	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-6.638	-0.0079	-2.5 to 2.5	Pass
				0	3.85	-6.223	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-4.478	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-0.544	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-4.249	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-5.937	-0.0071	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-7.796	-0.0092	-2.5 to 2.5	Pass
					3.85	-6.795	-0.0080	-2.5 to 2.5	Pass
					4.43	-7.868	-0.0093	-2.5 to 2.5	Pass
				-30	3.85	-11.573	-0.0137	-2.5 to 2.5	Pass
				-20	3.85	-5.264	-0.0062	-2.5 to 2.5	Pass
				-10	3.85	-5.078	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-7.682	-0.0091	-2.5 to 2.5	Pass
				10	3.85	-6.180	-0.0073	-2.5 to 2.5	Pass
				30	3.85	-4.435	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-9.799	-0.0116	-2.5 to 2.5	Pass
				50	3.85	-9.398	-0.0111	-2.5 to 2.5	Pass

2.1.4 B5_10MHz

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	-10.400	-0.0125	-2.5 to 2.5	Pass
					3.85	-10.800	-0.0130	-2.5 to 2.5	Pass
					4.43	-9.298	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-5.264	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-11.258	-0.0136	-2.5 to 2.5	Pass
				-10	3.85	-6.638	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-5.364	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-7.281	-0.0088	-2.5 to 2.5	Pass
				30	3.85	-7.668	-0.0092	-2.5 to 2.5	Pass
				40	3.85	-6.008	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-7.024	-0.0085	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-6.666	-0.0080	-2.5 to 2.5	Pass
					3.85	-7.353	-0.0088	-2.5 to 2.5	Pass
					4.43	-5.794	-0.0069	-2.5 to 2.5	Pass
				-30	3.85	-5.794	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-7.467	-0.0089	-2.5 to 2.5	Pass
				-10	3.85	-6.194	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-7.310	-0.0087	-2.5 to 2.5	Pass
				10	3.85	-7.482	-0.0089	-2.5 to 2.5	Pass
				30	3.85	-7.210	-0.0086	-2.5 to 2.5	Pass
				40	3.85	-7.896	-0.0094	-2.5 to 2.5	Pass
				50	3.85	-6.237	-0.0075	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-1.874	-0.0022	-2.5 to 2.5	Pass
					3.85	-4.535	-0.0054	-2.5 to 2.5	Pass
					4.43	-5.879	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-7.267	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-6.509	-0.0077	-2.5 to 2.5	Pass
				-10	3.85	-5.765	-0.0068	-2.5 to 2.5	Pass
				0	3.85	-3.805	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-4.263	-0.0051	-2.5 to 2.5	Pass
				30	3.85	-5.364	-0.0064	-2.5 to 2.5	Pass

				40	3.85	-6.266	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-5.751	-0.0068	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	-4.334	-0.0052	-2.5 to 2.5	Pass
					3.85	-5.565	-0.0067	-2.5 to 2.5	Pass
					4.43	-7.653	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-8.726	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-7.596	-0.0092	-2.5 to 2.5	Pass
				-10	3.85	-5.822	-0.0070	-2.5 to 2.5	Pass
				0	3.85	-7.510	-0.0091	-2.5 to 2.5	Pass
				10	3.85	-7.210	-0.0087	-2.5 to 2.5	Pass
				30	3.85	-2.961	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-3.619	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-6.437	-0.0078	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-4.106	-0.0049	-2.5 to 2.5	Pass
					3.85	-4.363	-0.0052	-2.5 to 2.5	Pass
					4.43	-4.835	-0.0058	-2.5 to 2.5	Pass
				-30	3.85	-5.279	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-3.190	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-3.591	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-7.210	-0.0086	-2.5 to 2.5	Pass
				10	3.85	-5.307	-0.0063	-2.5 to 2.5	Pass
				30	3.85	-6.366	-0.0076	-2.5 to 2.5	Pass
				40	3.85	-3.905	-0.0047	-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	-8.154	-0.0097	-2.5 to 2.5	Pass
					3.85	-7.896	-0.0094	-2.5 to 2.5	Pass
					4.43	-4.034	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-3.691	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-4.635	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-5.164	-0.0061	-2.5 to 2.5	Pass
				0	3.85	-6.223	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-8.140	-0.0096	-2.5 to 2.5	Pass
				30	3.85	-8.383	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-5.665	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-6.180	-0.0073	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B5_1.4MHz

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 B5_3MHz

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

3.1.3 B5_5MHz

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

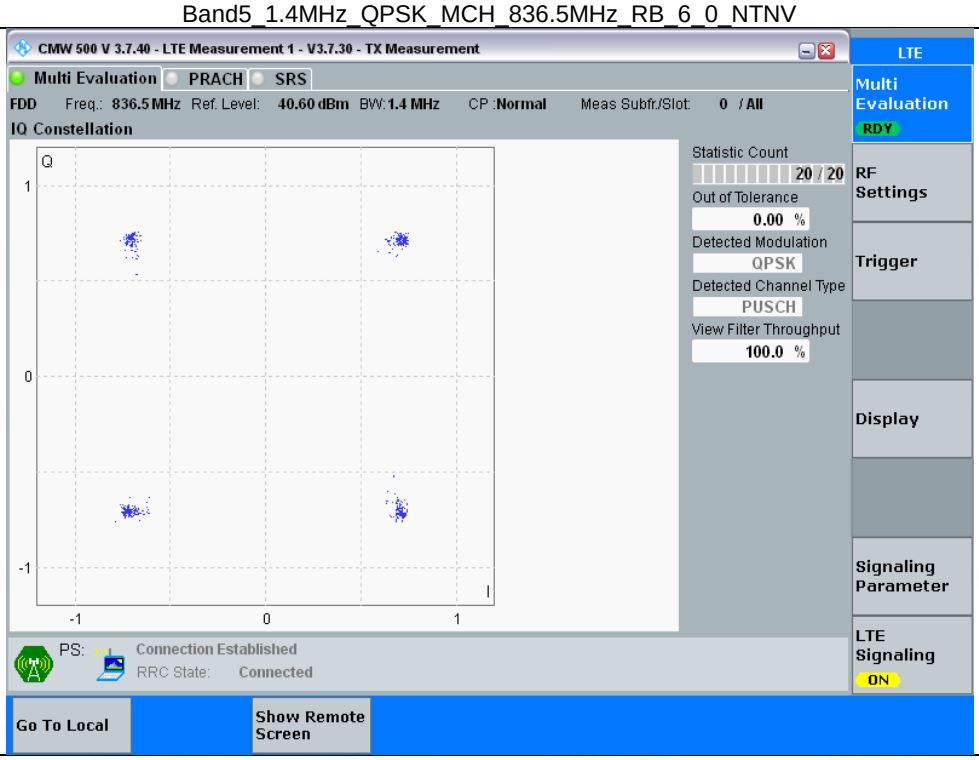
3.1.4 B5_10MHz

Band: 5 / Bandwidth: 10MHz / NTNV						
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

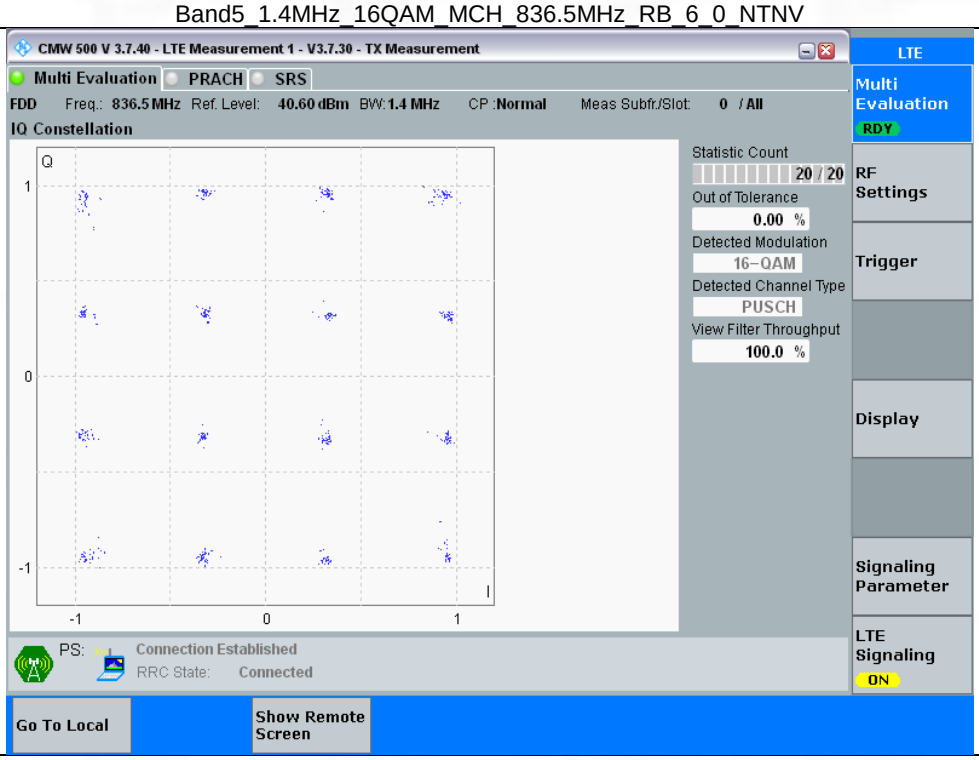
3.2 Test Graph

3.2.1 B5_1.4MHz

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV

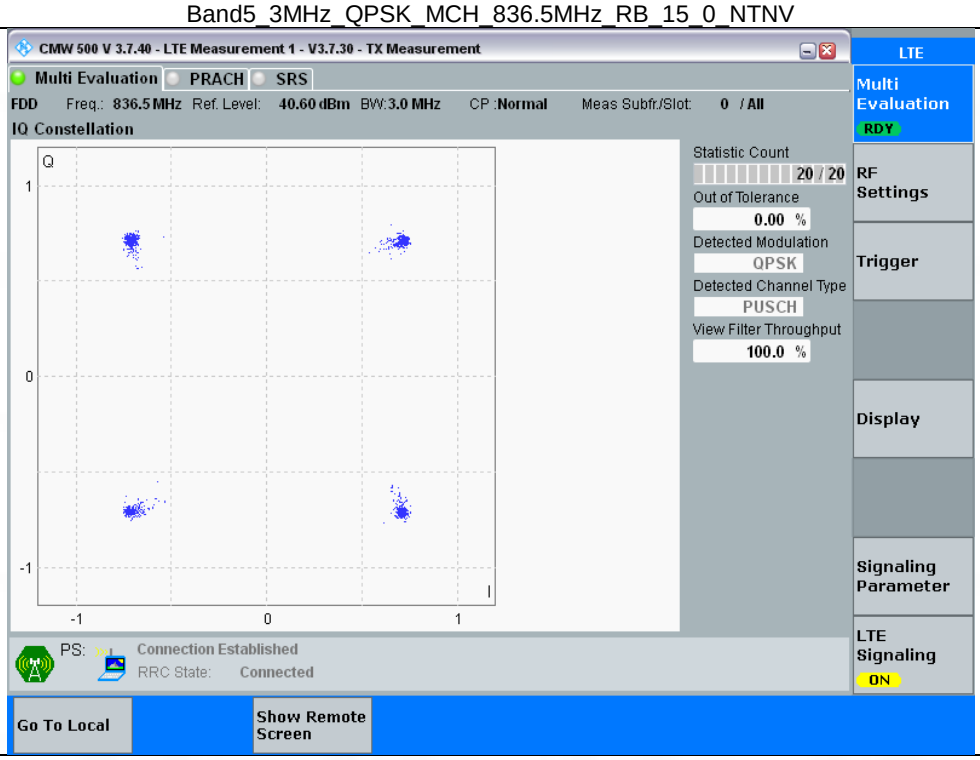


Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

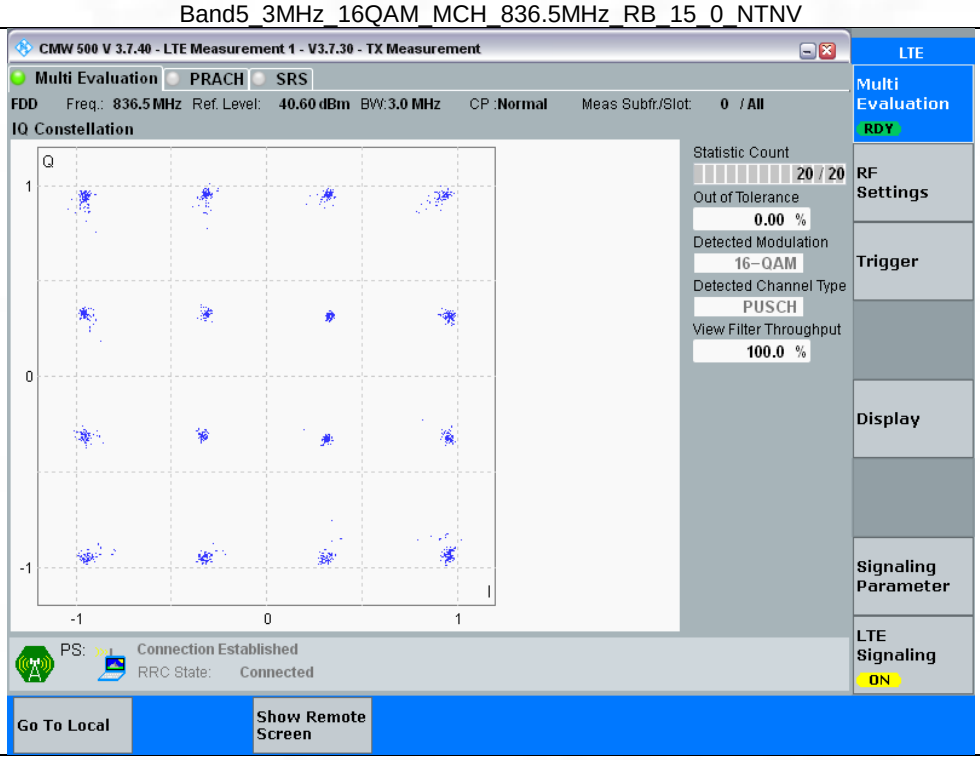


3.2.2 B5_3MHz

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV

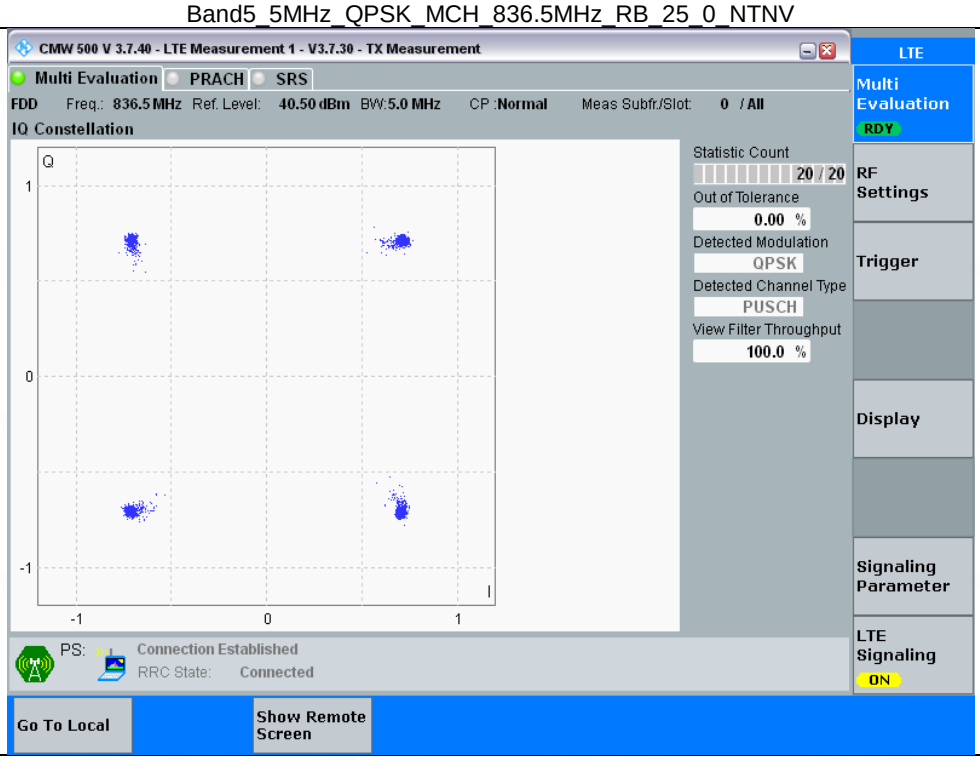


Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV

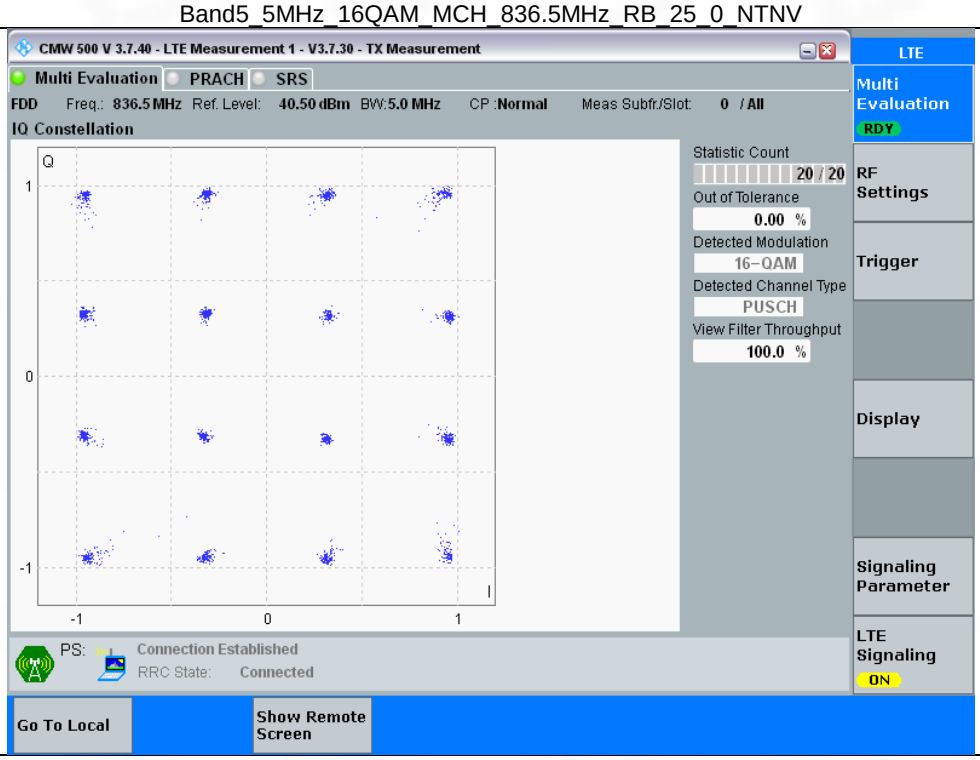


3.2.3 B5_5MHz

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV

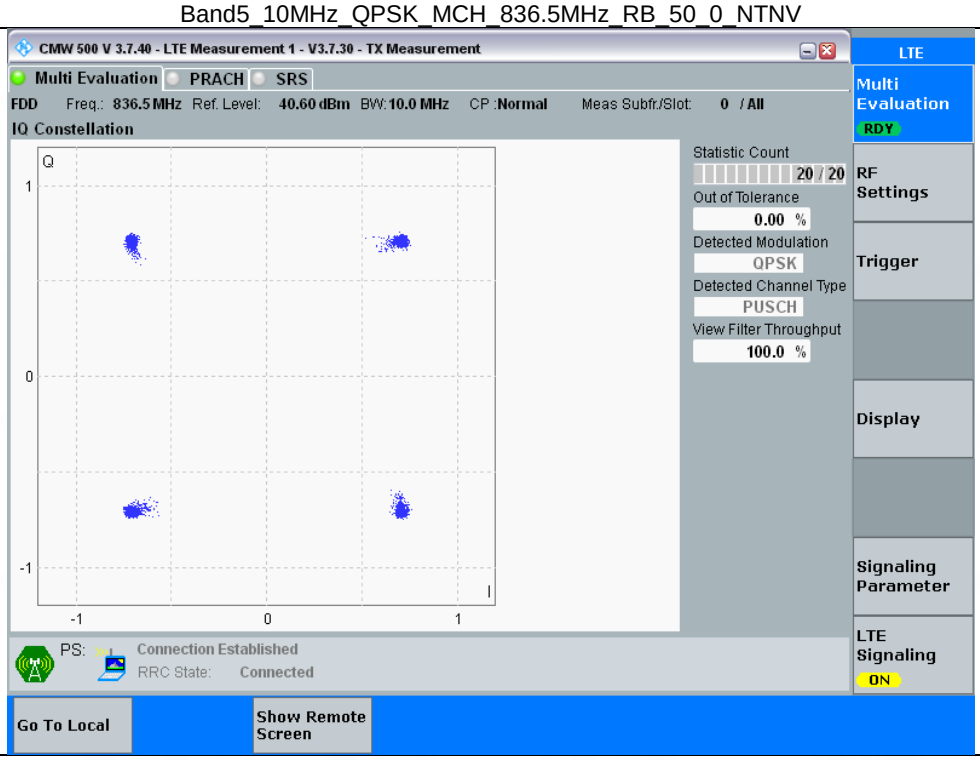


Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV

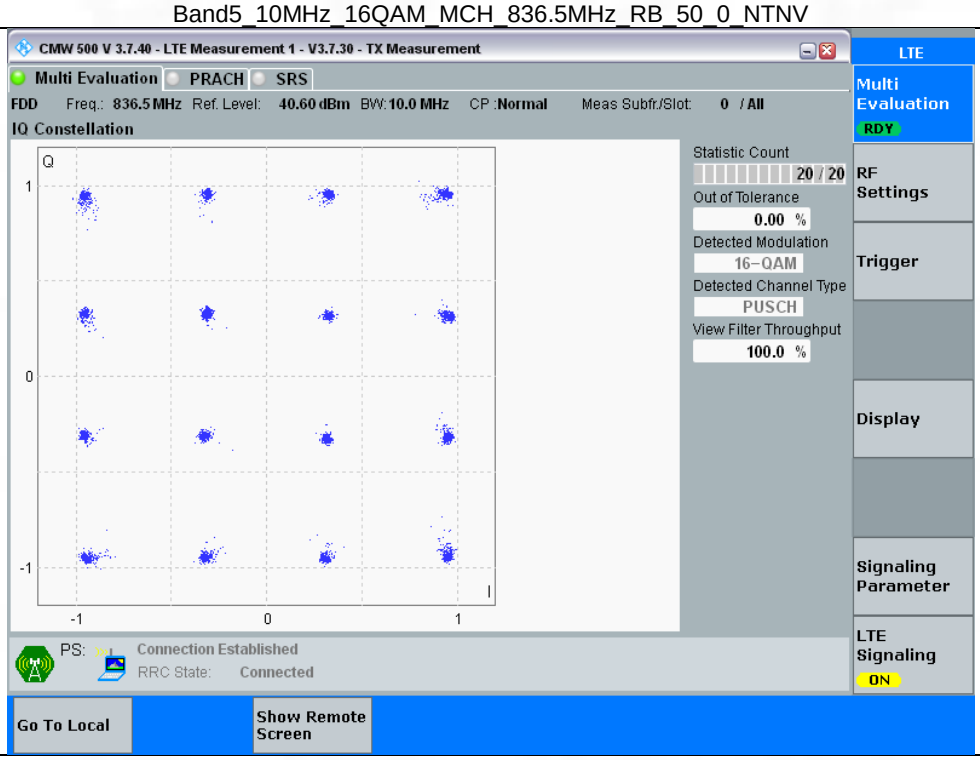


3.2.4 B5_10MHz

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band5_OBW

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.125	/	Pass
		836.5	6	0	1.113	/	Pass
		848.3	6	0	1.125	/	Pass
	16QAM	824.7	6	0	1.110	/	Pass
		836.5	6	0	1.106	/	Pass
		848.3	6	0	1.119	/	Pass
3	QPSK	825.5	15	0	2.733	/	Pass
		836.5	15	0	2.737	/	Pass
		847.5	15	0	2.728	/	Pass
	16QAM	825.5	15	0	2.727	/	Pass
		836.5	15	0	2.729	/	Pass
		847.5	15	0	2.728	/	Pass
5	QPSK	826.5	25	0	4.553	/	Pass
		836.5	25	0	4.550	/	Pass
		846.5	25	0	4.541	/	Pass
	16QAM	826.5	25	0	4.572	/	Pass
		836.5	25	0	4.554	/	Pass
		846.5	25	0	4.535	/	Pass
10	QPSK	829	50	0	9.071	/	Pass
		836.5	50	0	9.065	/	Pass
		844	50	0	9.055	/	Pass
	16QAM	829	50	0	9.069	/	Pass
		836.5	50	0	9.056	/	Pass
		844	50	0	9.030	/	Pass

4.1.2 Band5_XDB

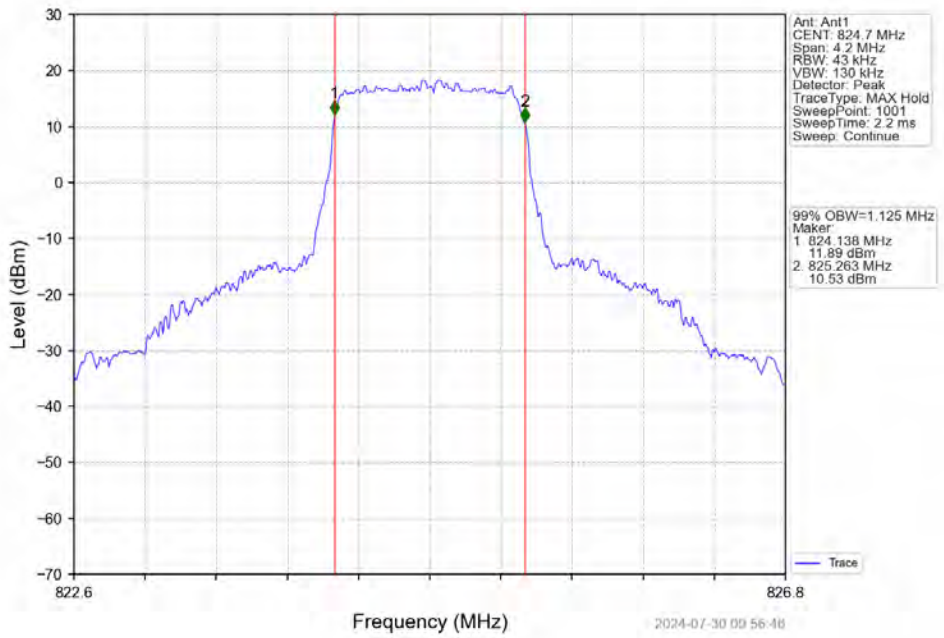
Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.324	/	Pass
		836.5	6	0	1.353	/	Pass
		848.3	6	0	1.985	/	Pass
	16QAM	824.7	6	0	1.320	/	Pass
		836.5	6	0	1.314	/	Pass
		848.3	6	0	1.327	/	Pass
3	QPSK	825.5	15	0	3.004	/	Pass
		836.5	15	0	2.992	/	Pass
		847.5	15	0	3.000	/	Pass
	16QAM	825.5	15	0	2.996	/	Pass
		836.5	15	0	2.981	/	Pass
		847.5	15	0	2.969	/	Pass
5	QPSK	826.5	25	0	5.064	/	Pass
		836.5	25	0	5.025	/	Pass
		846.5	25	0	5.010	/	Pass

	16QAM	826.5	25	0	5.070	/	Pass
		836.5	25	0	5.034	/	Pass
		846.5	25	0	5.115	/	Pass
10	QPSK	829	50	0	9.926	/	Pass
		836.5	50	0	10.039	/	Pass
		844	50	0	9.924	/	Pass
	16QAM	829	50	0	9.928	/	Pass
		836.5	50	0	9.959	/	Pass
		844	50	0	9.899	/	Pass

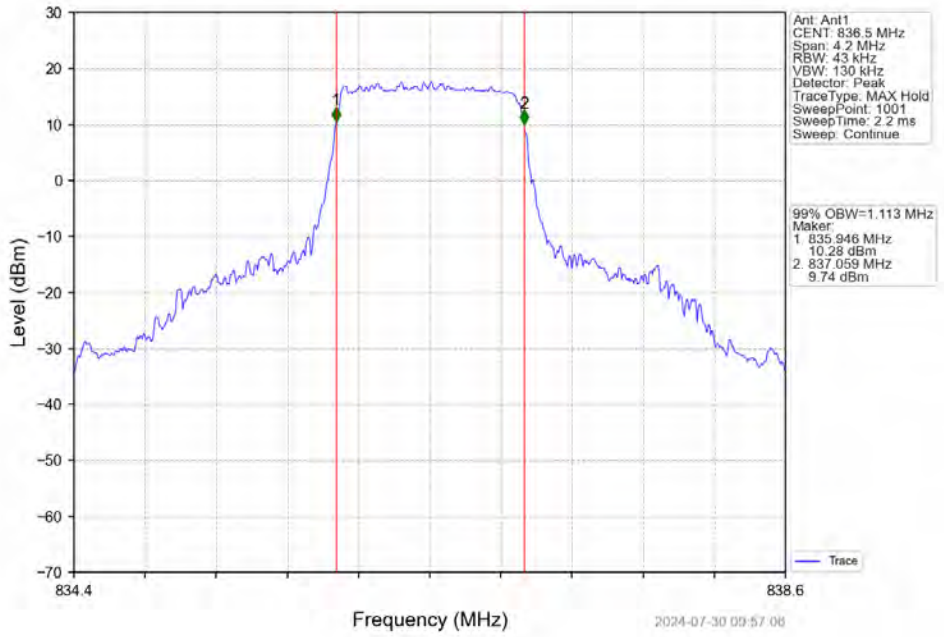
4.2 Test Graph

4.2.1 Band5_OBW

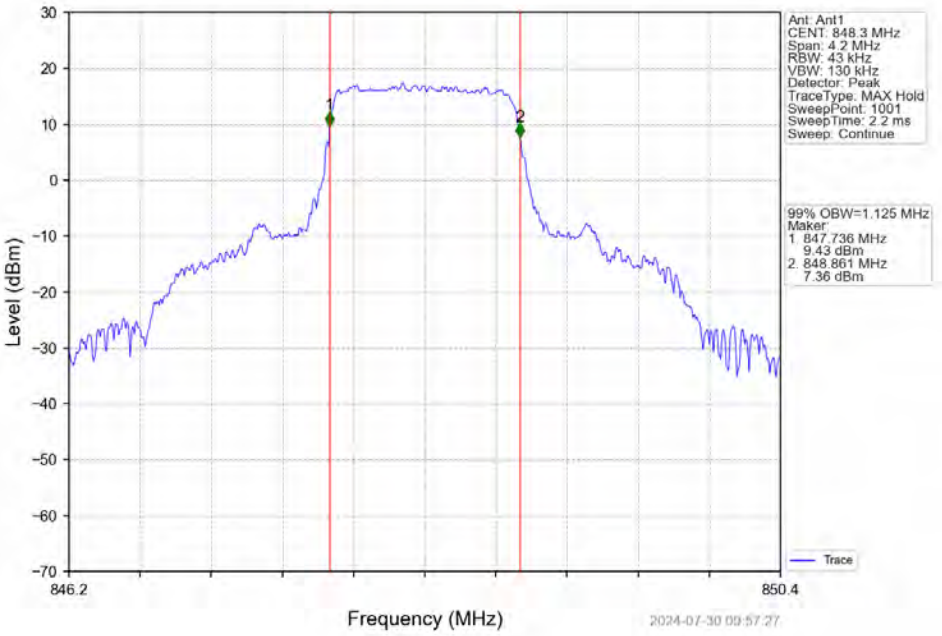
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



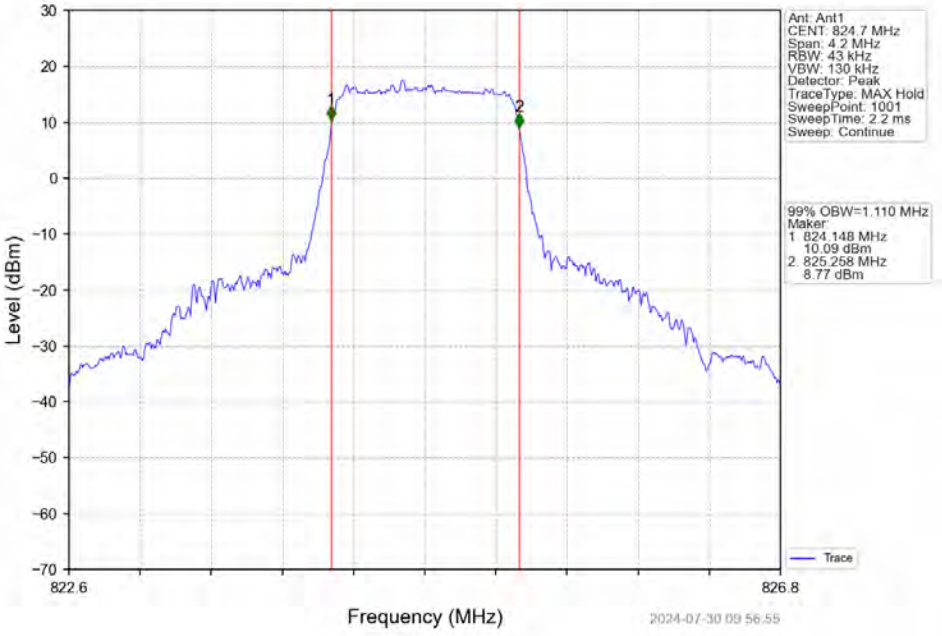
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



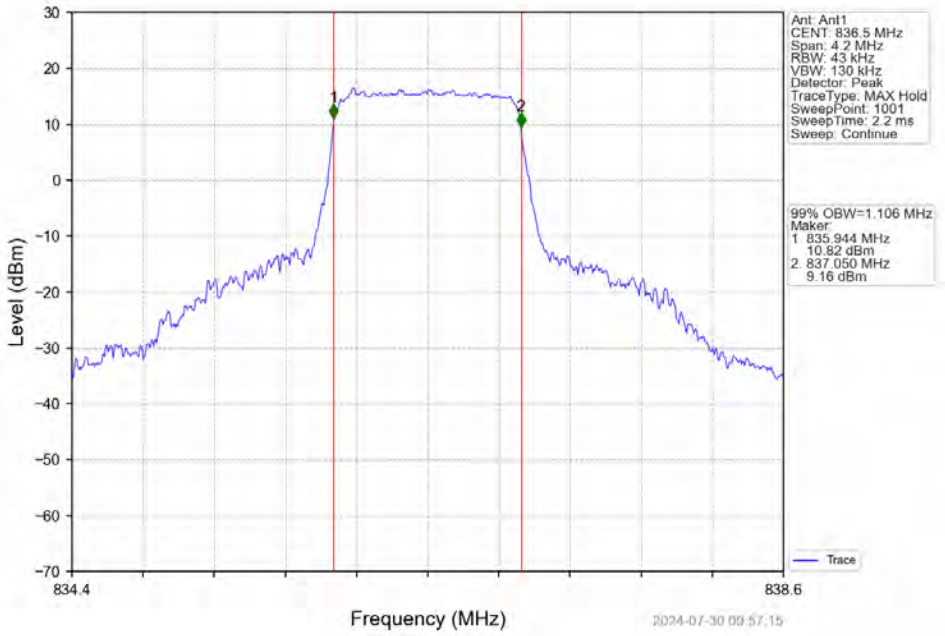
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



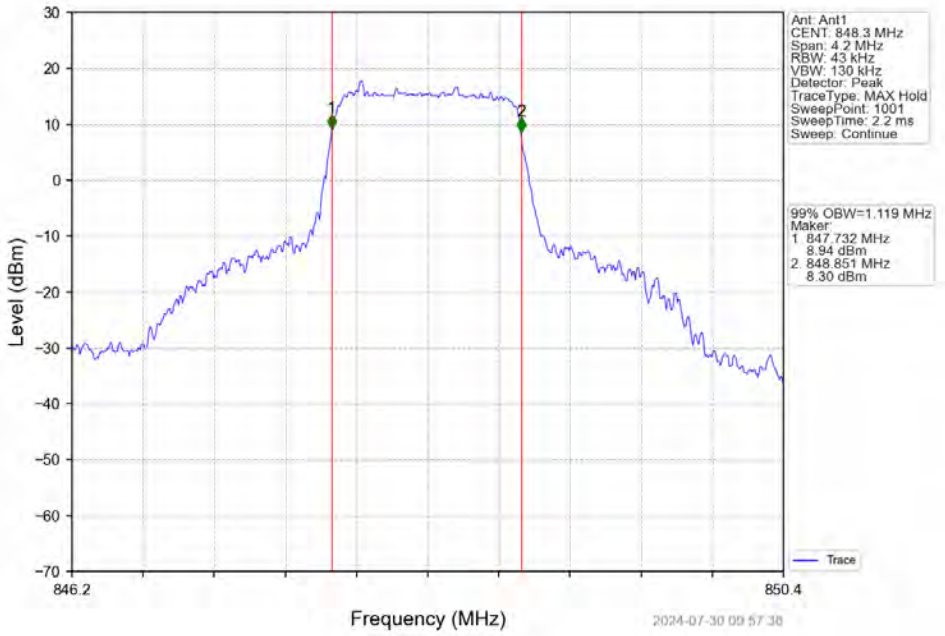
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



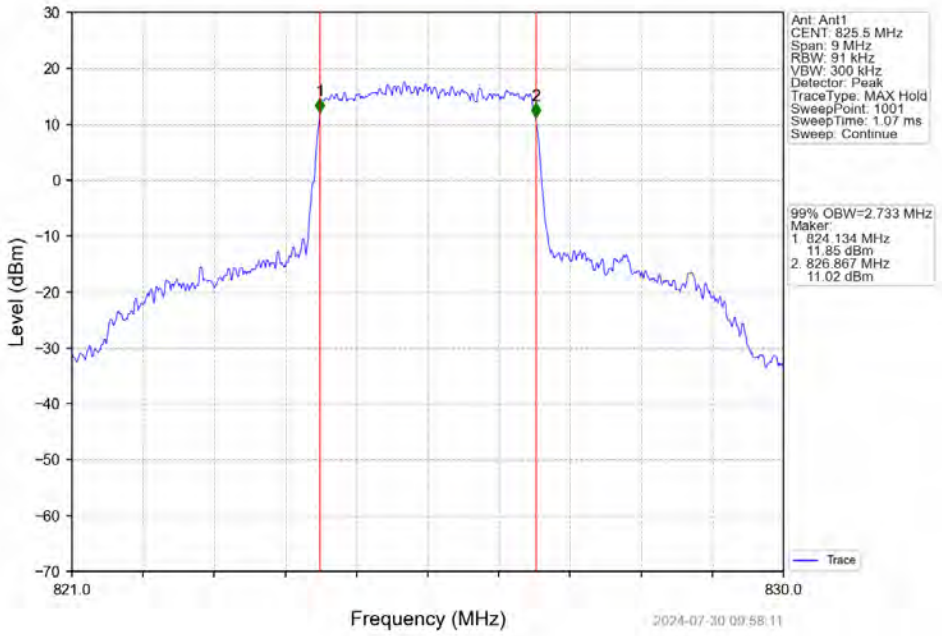
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



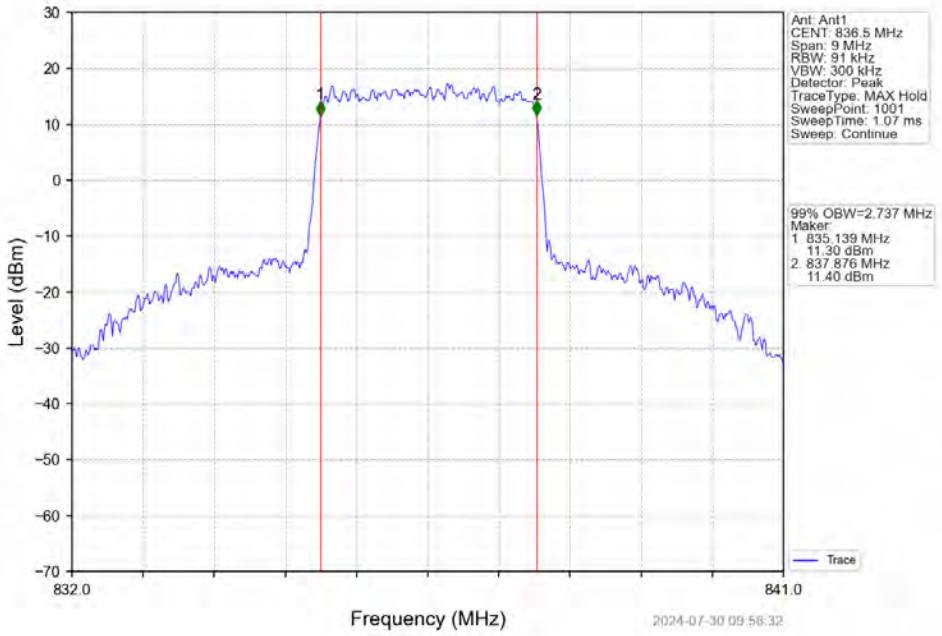
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



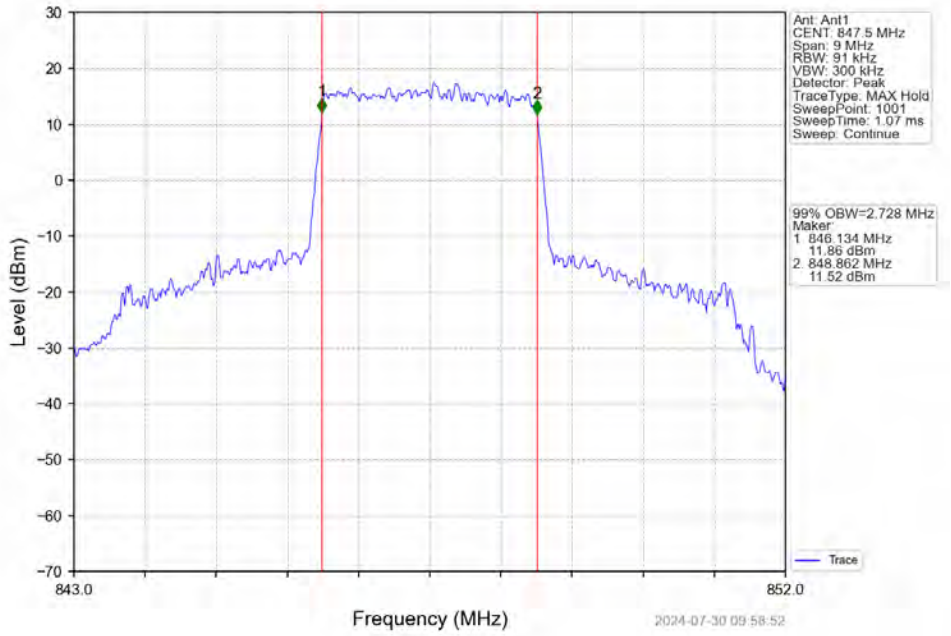
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



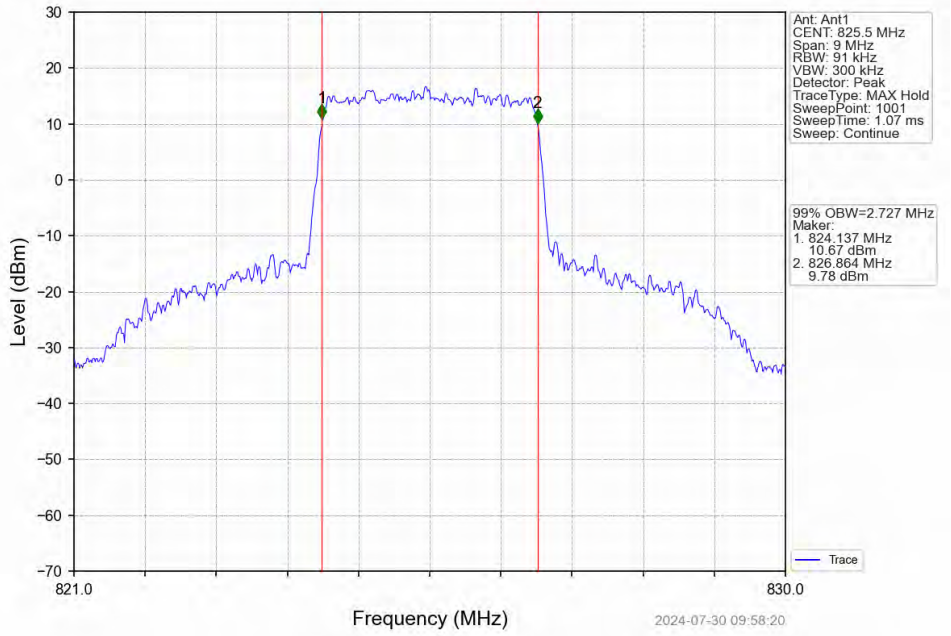
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



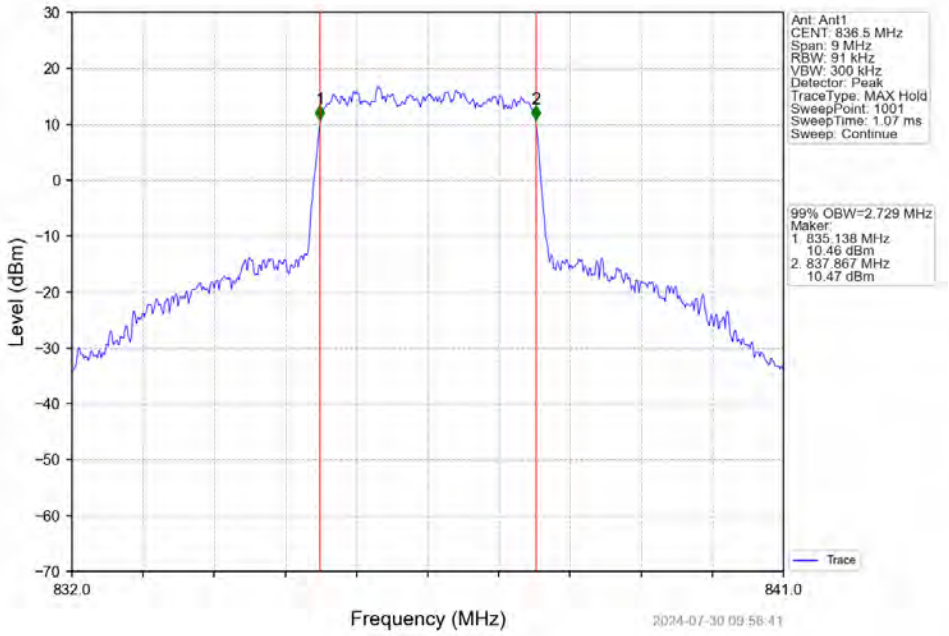
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



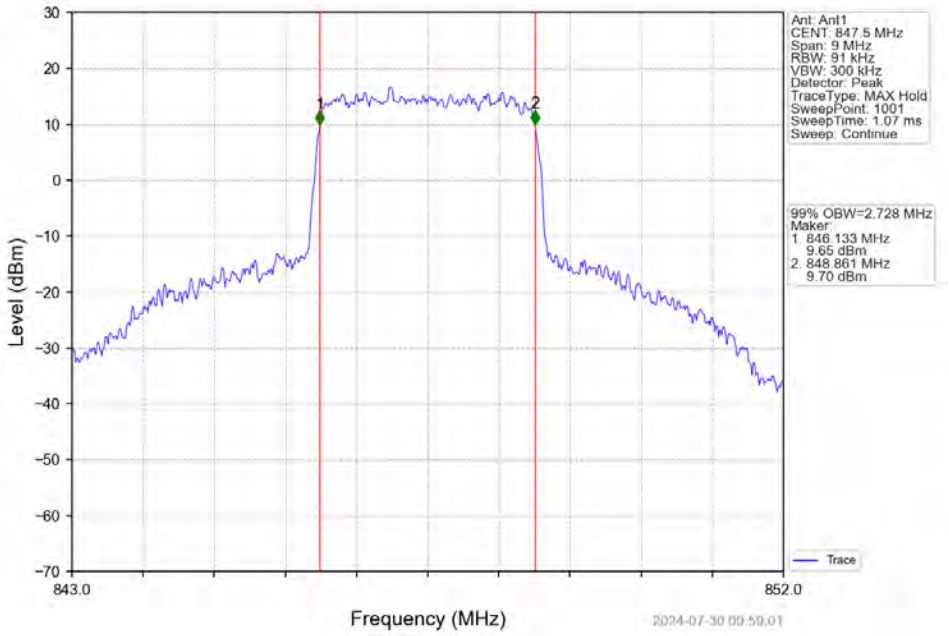
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



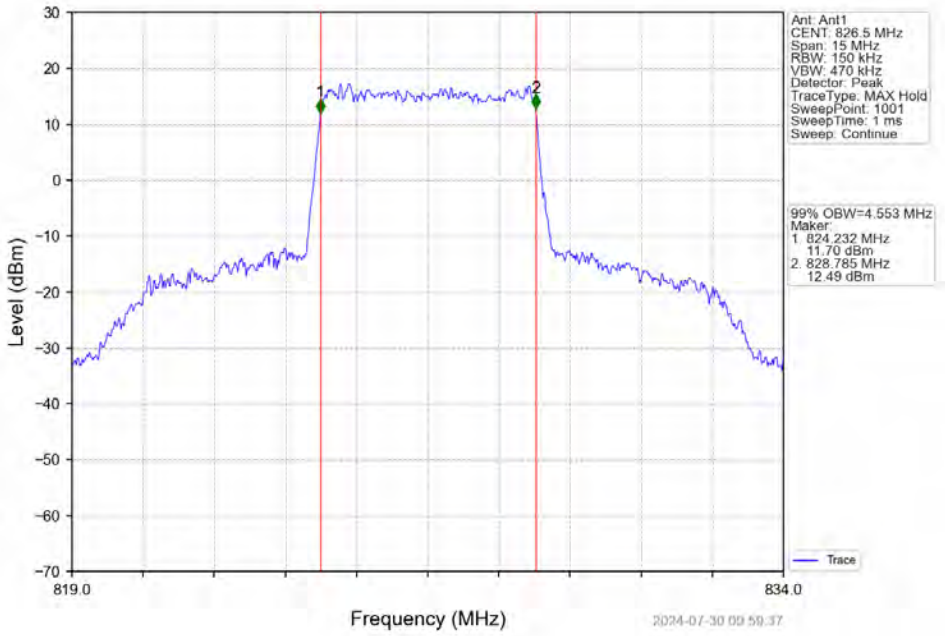
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



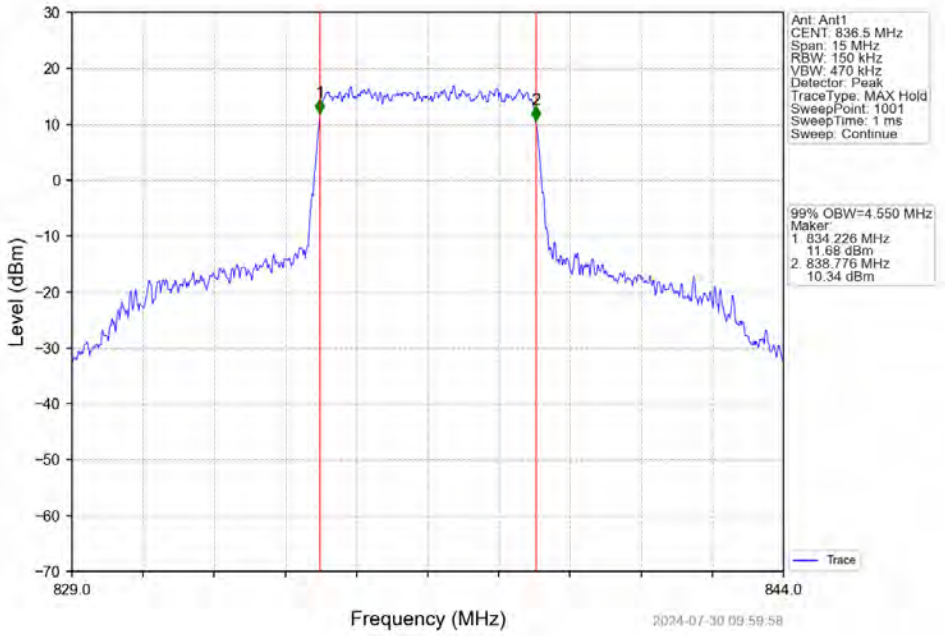
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



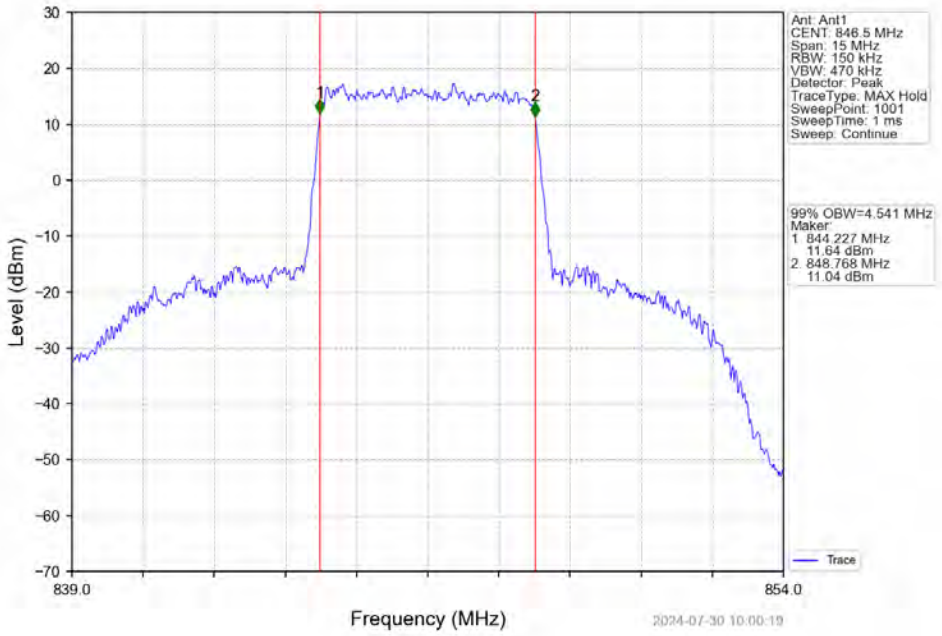
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



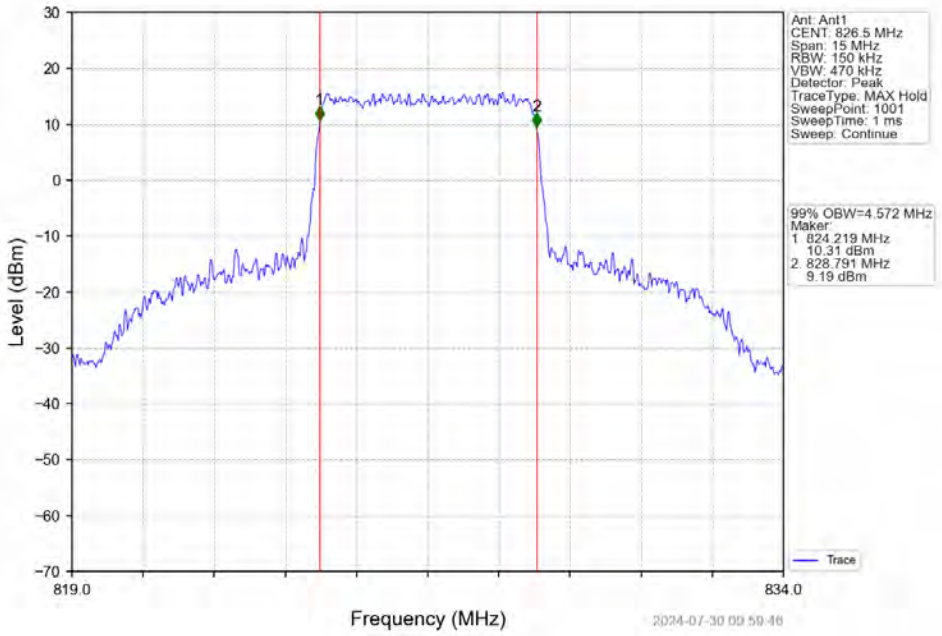
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



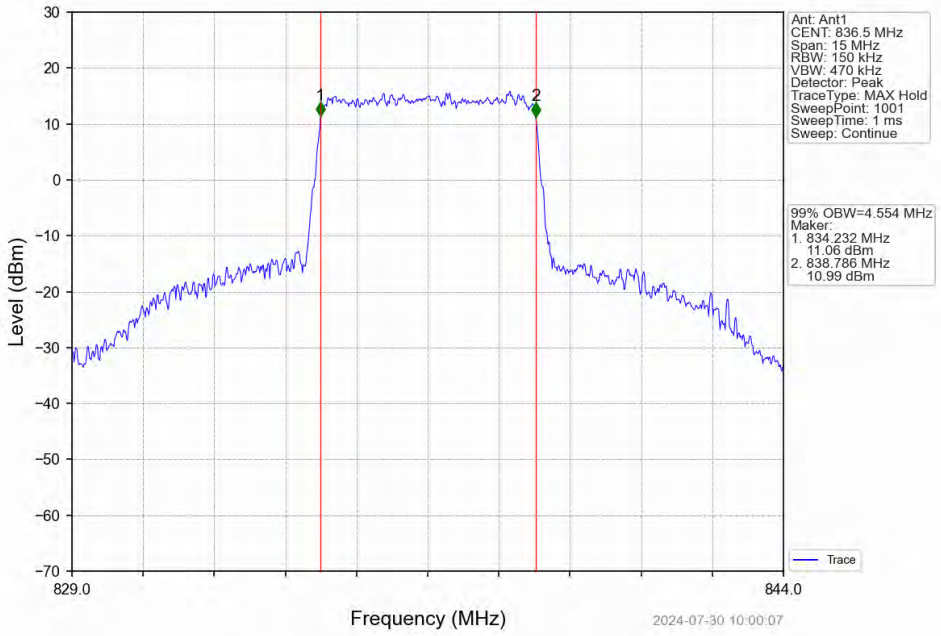
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



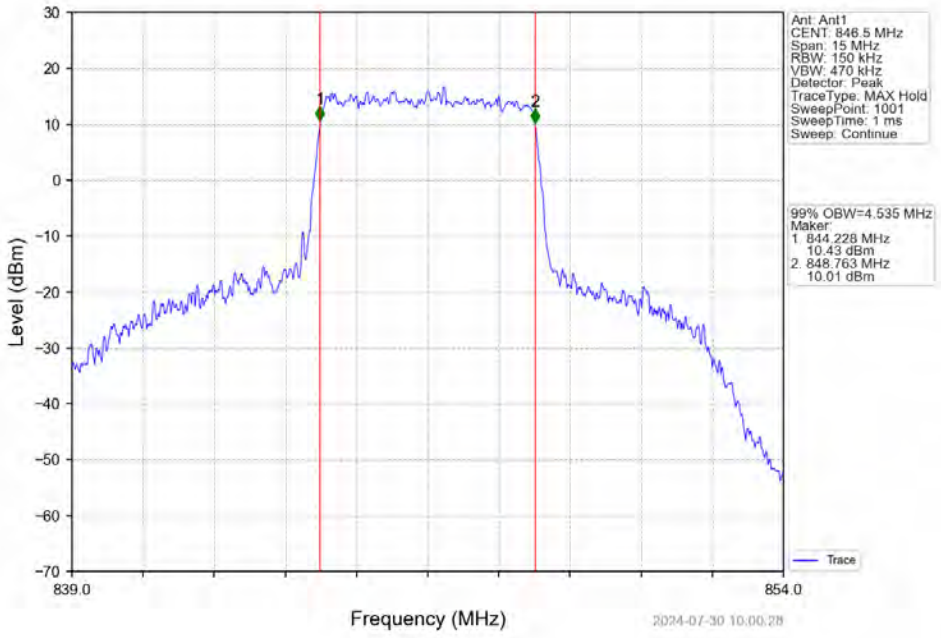
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



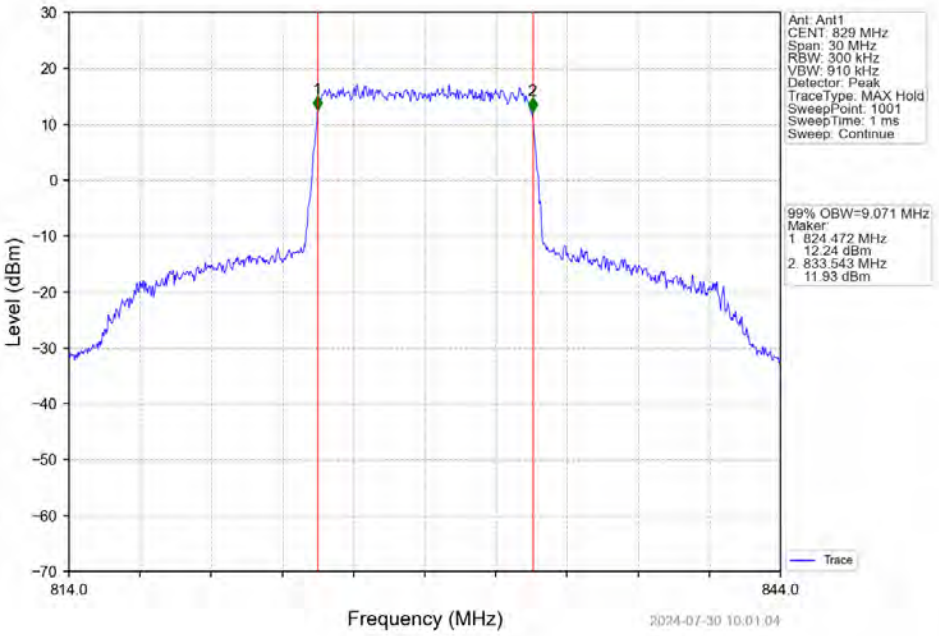
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



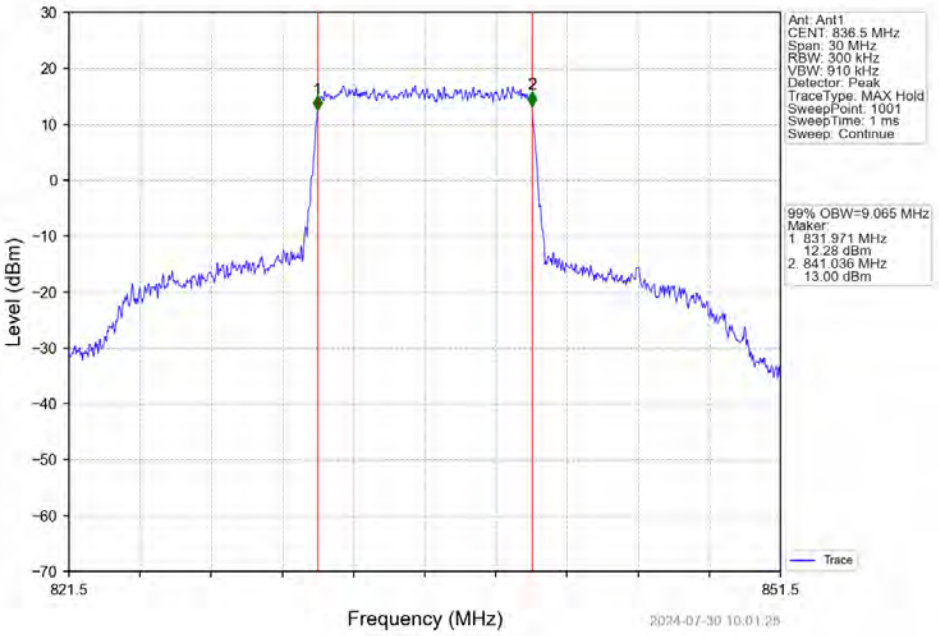
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



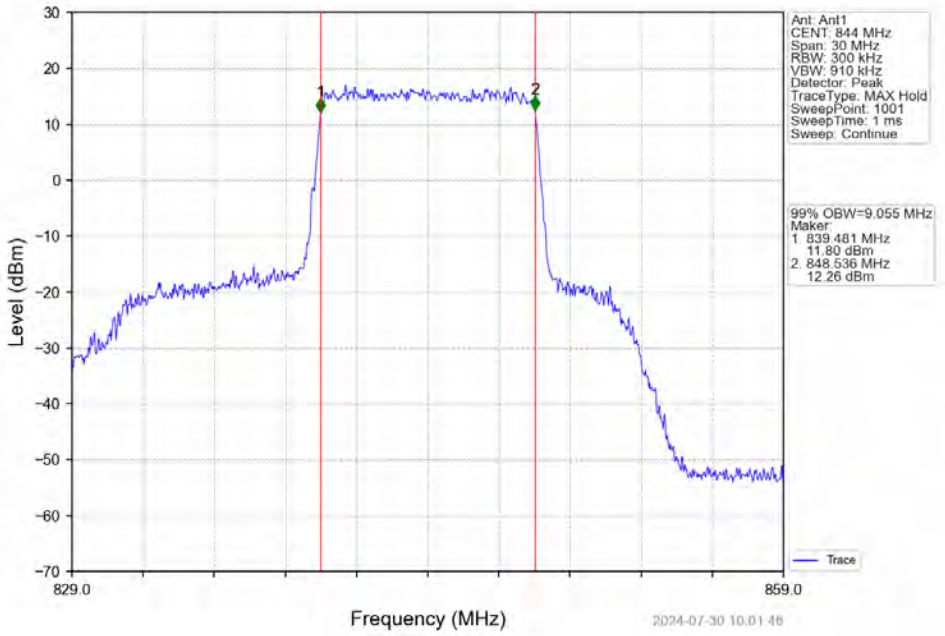
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



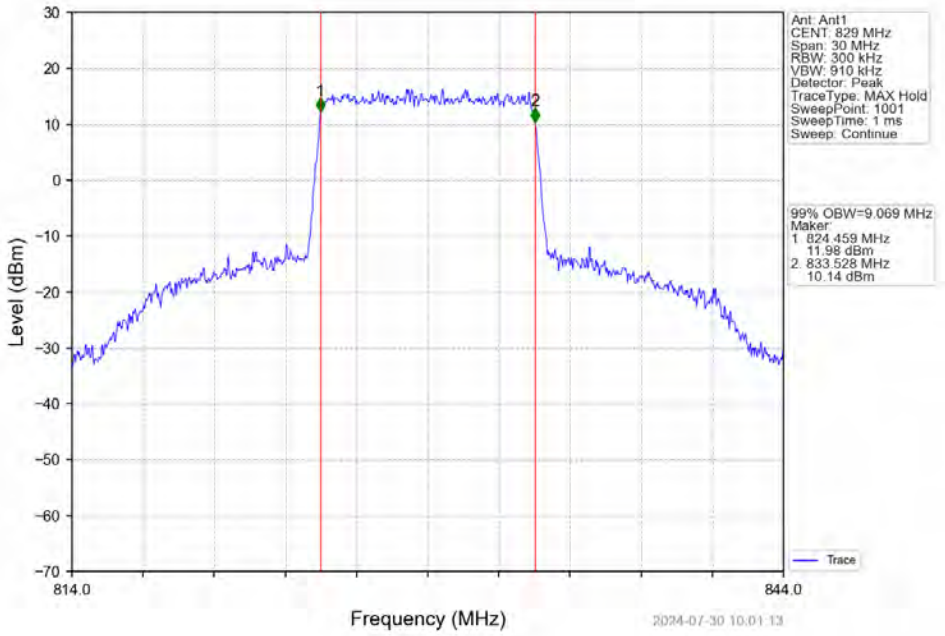
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



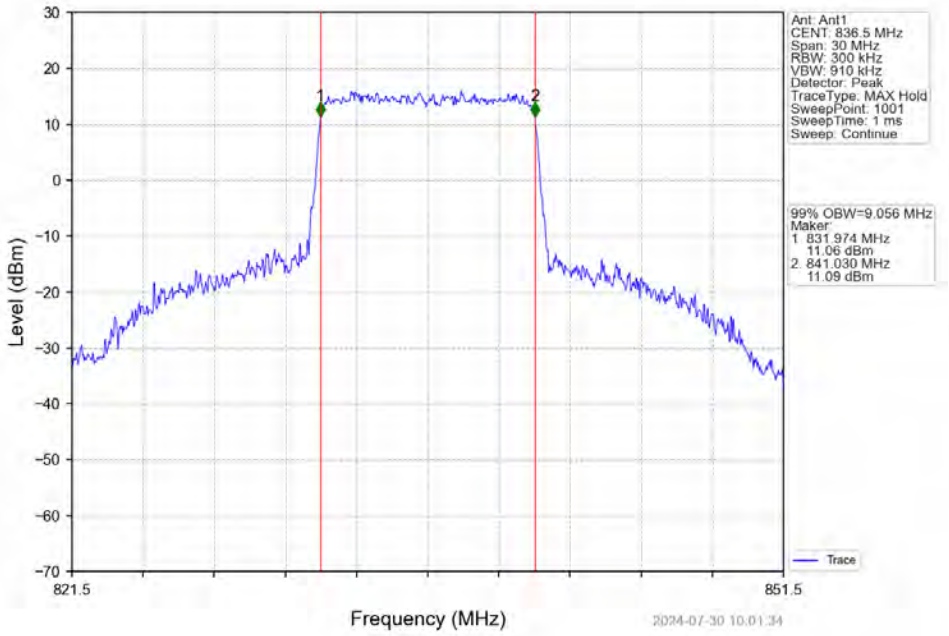
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



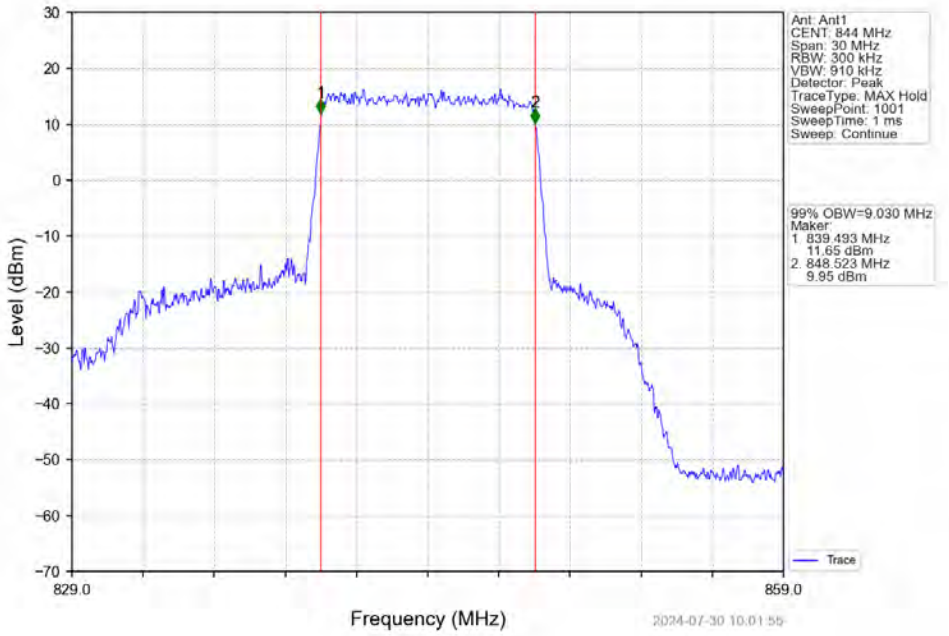
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

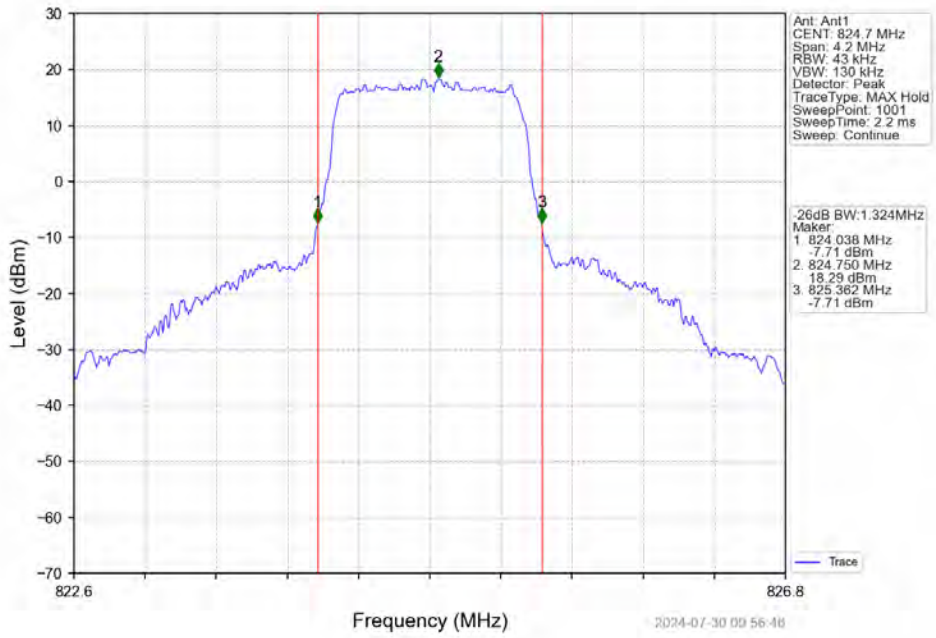


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

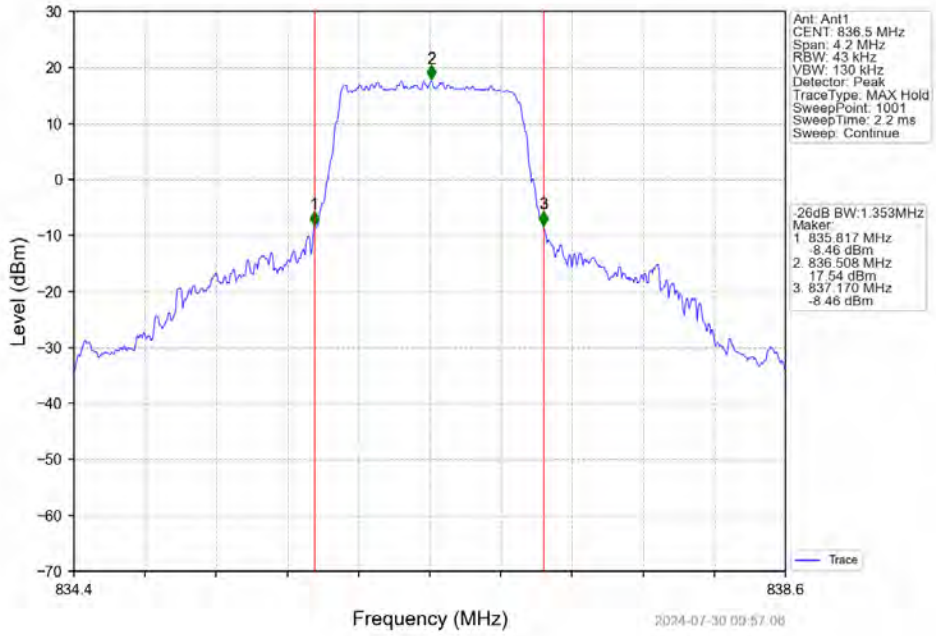


4.2.2 Band5_XDB

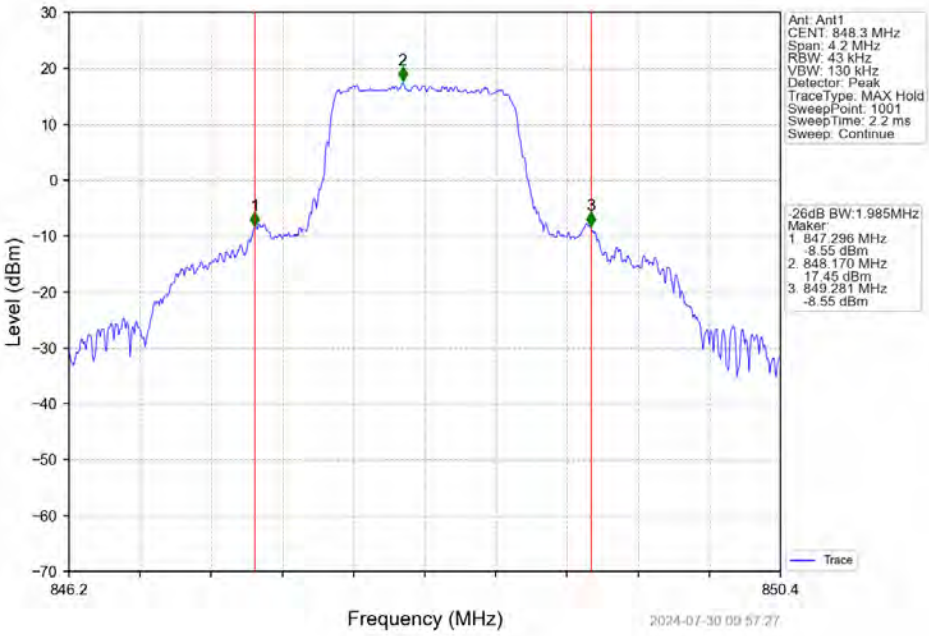
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



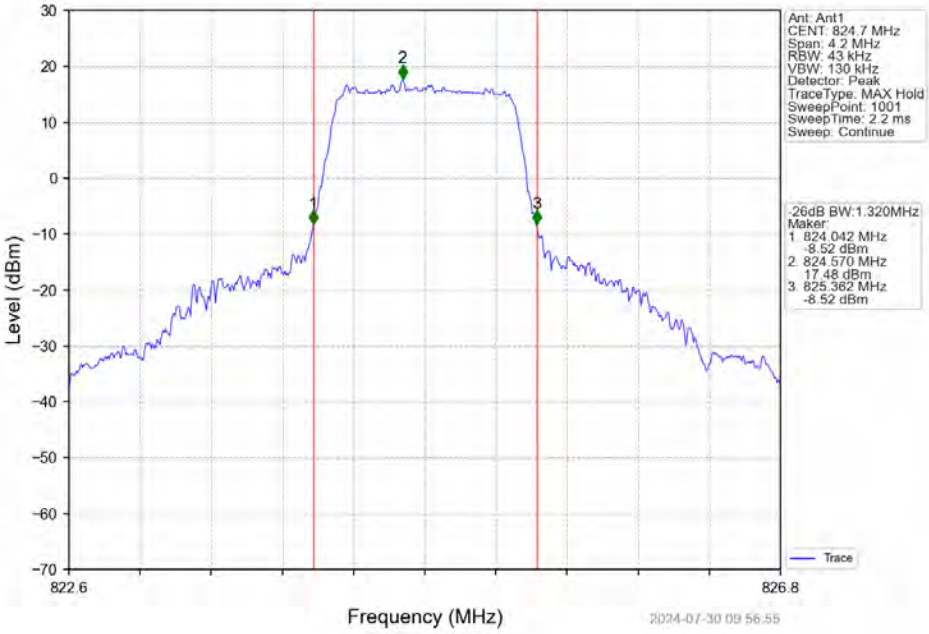
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



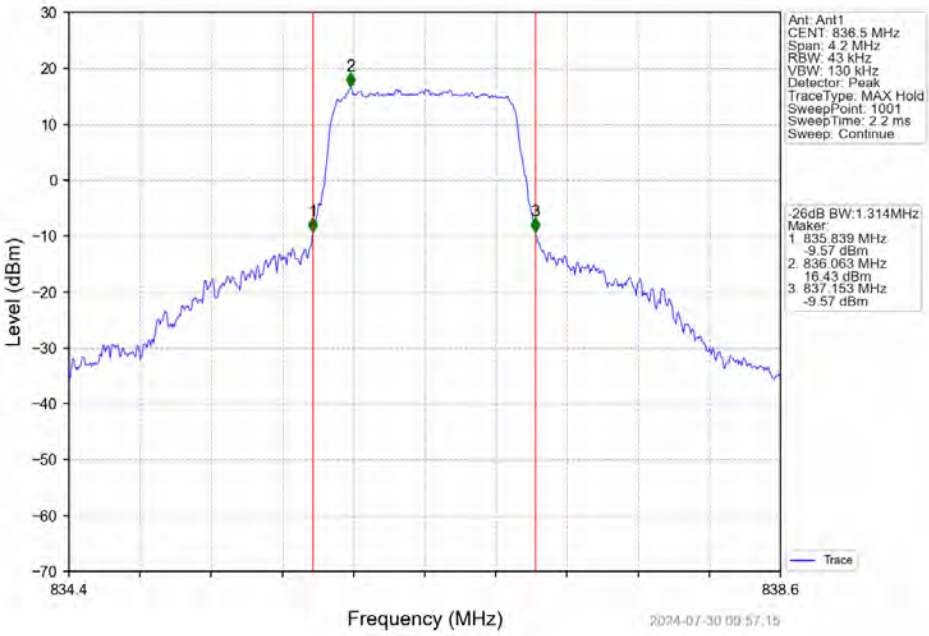
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



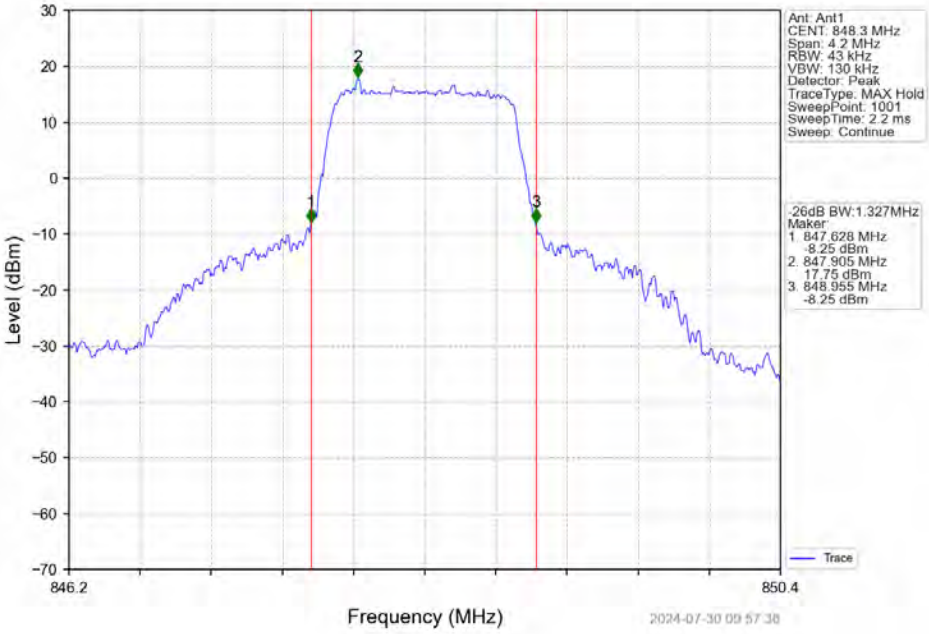
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



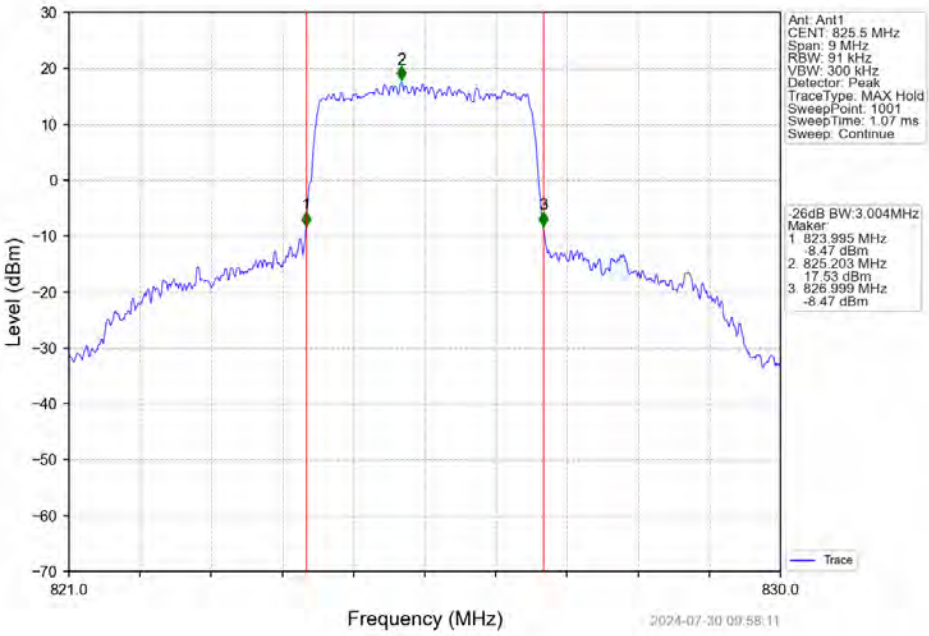
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



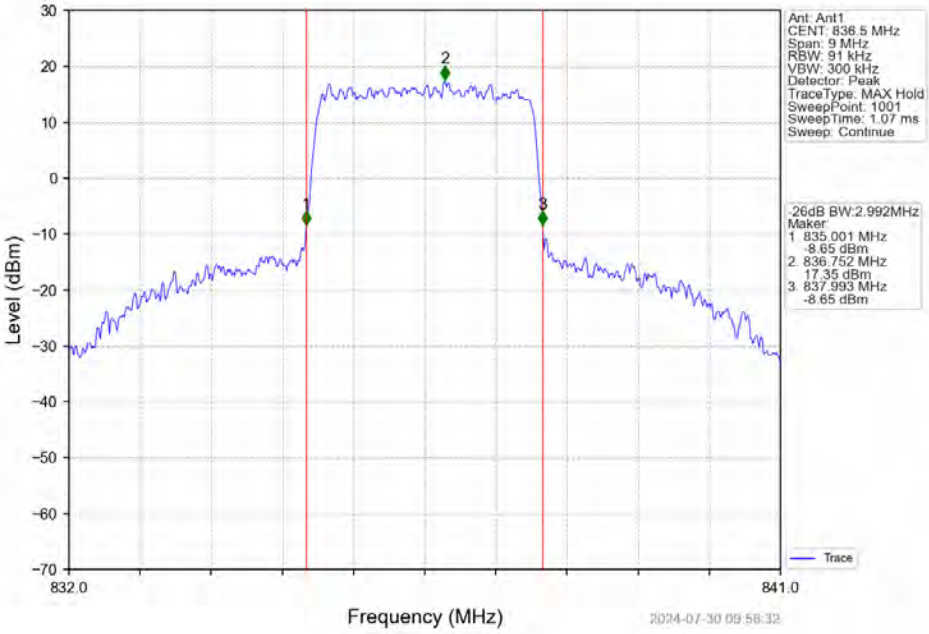
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



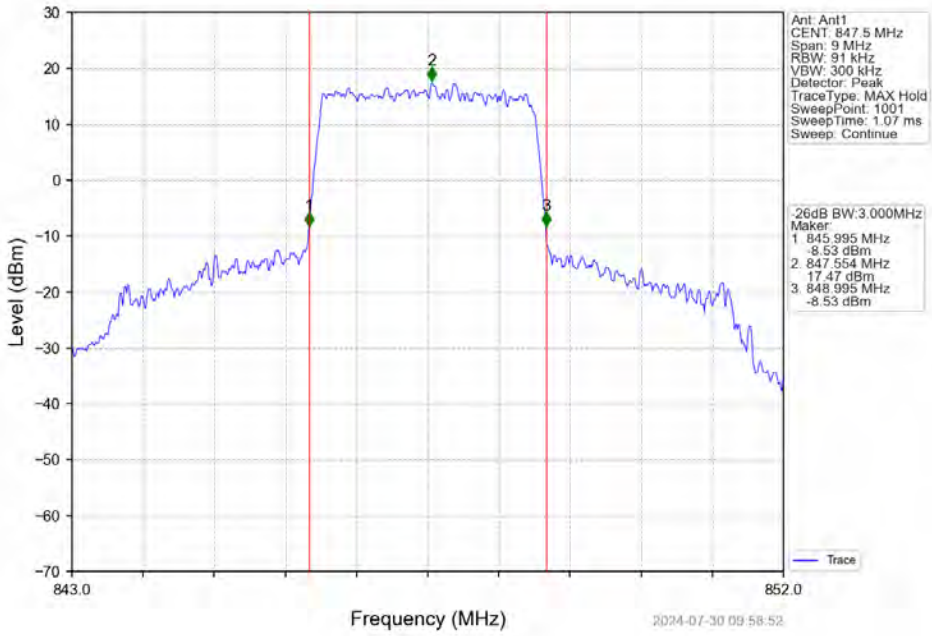
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



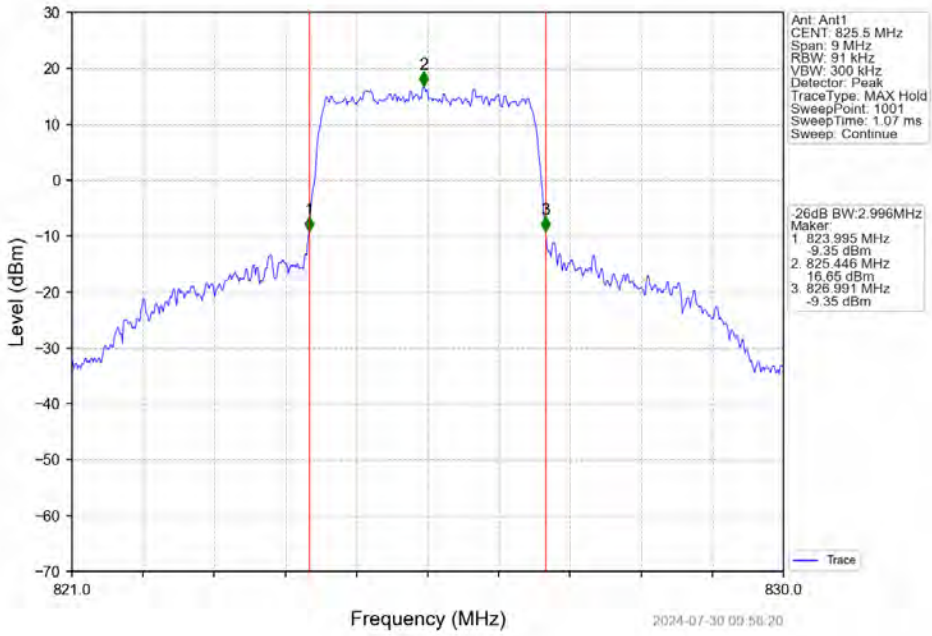
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



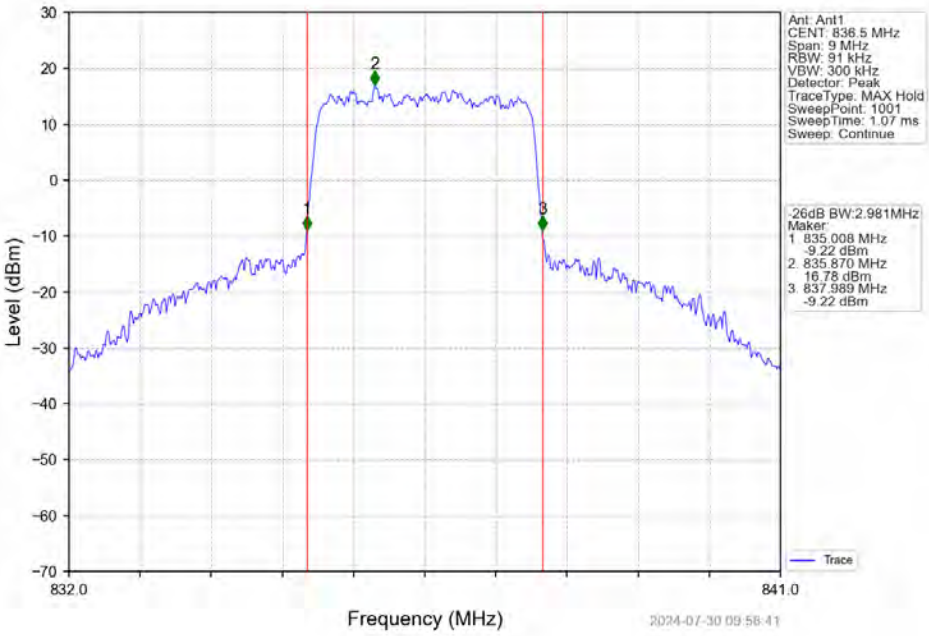
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



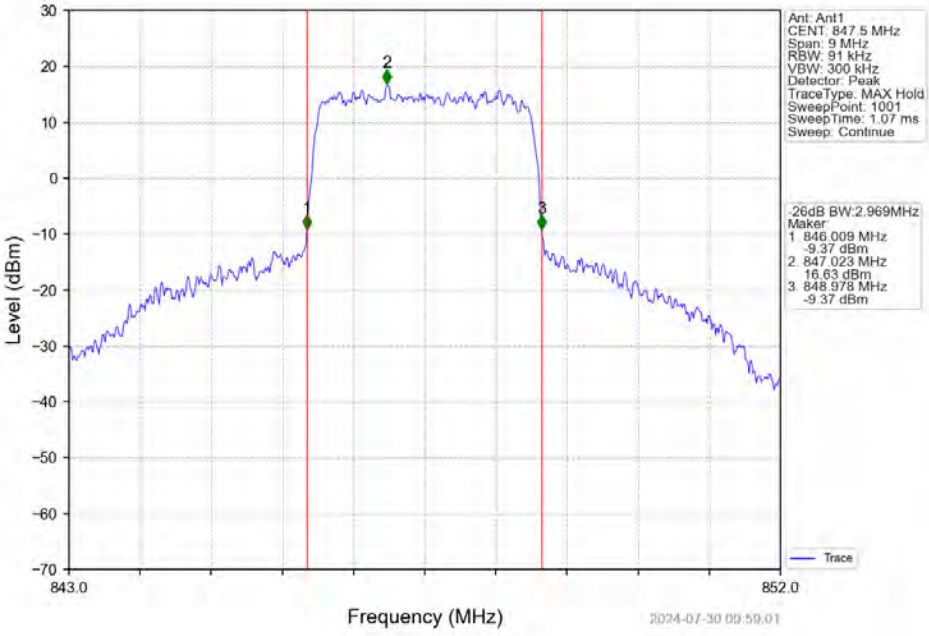
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



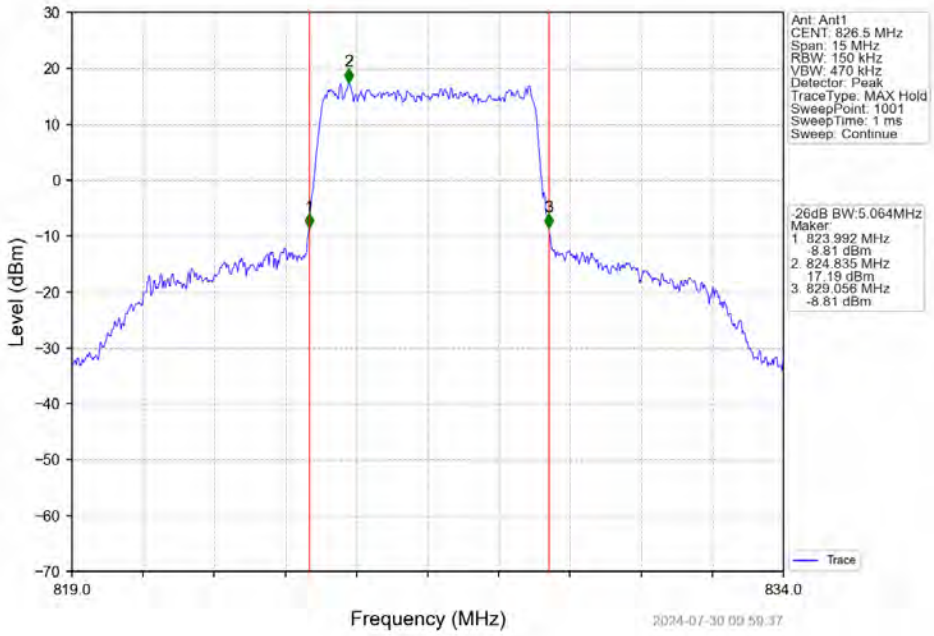
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



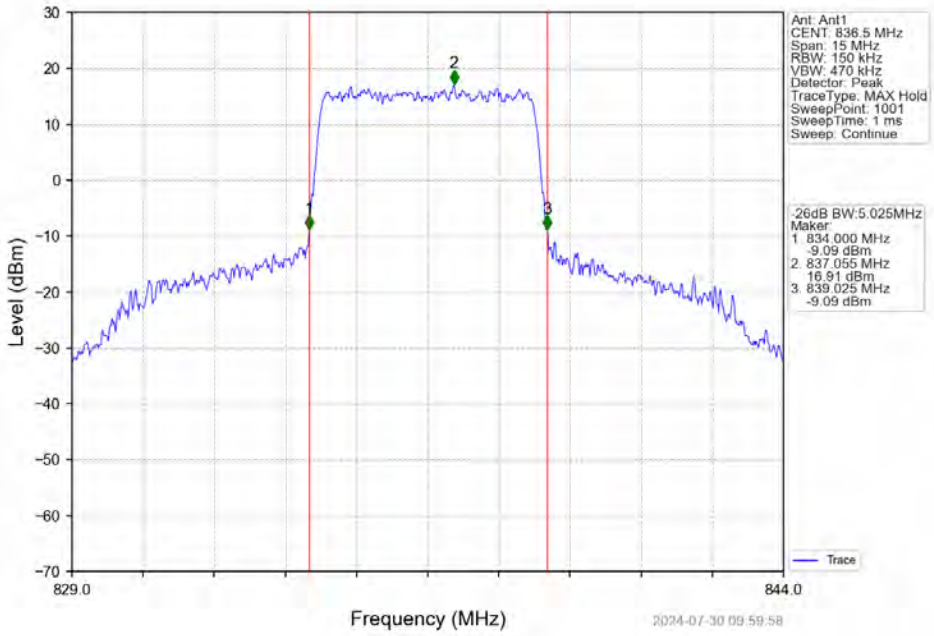
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



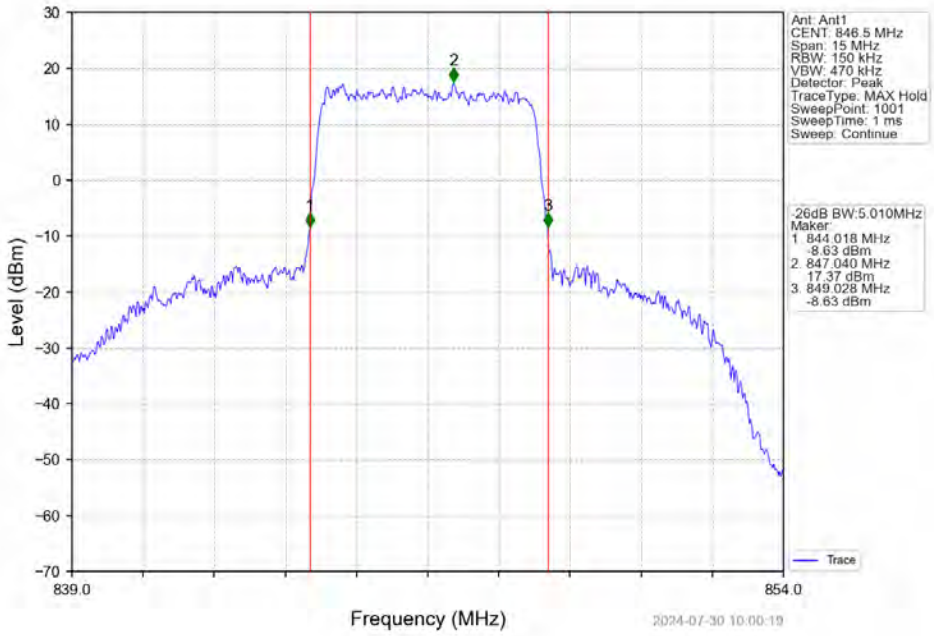
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



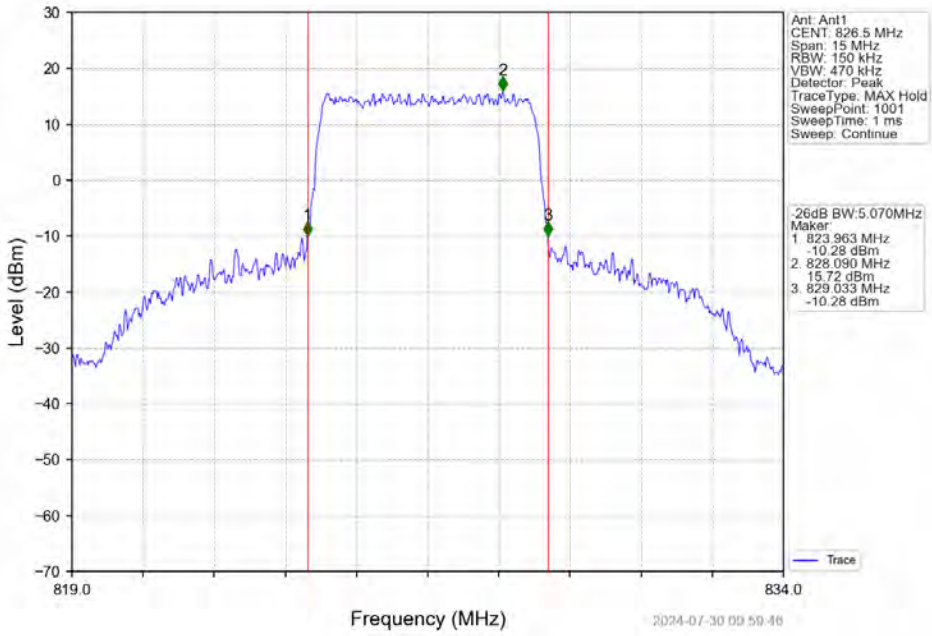
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



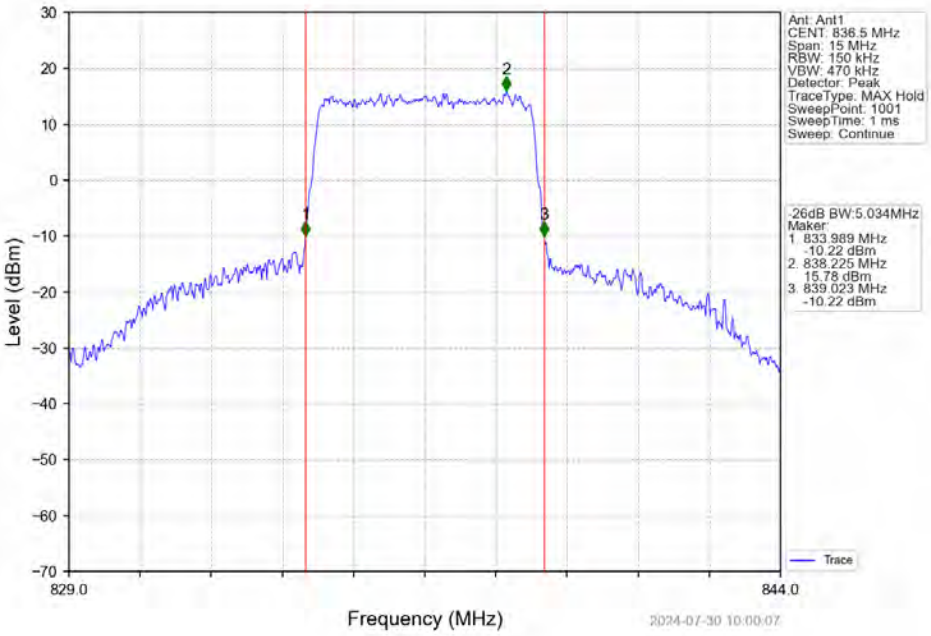
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



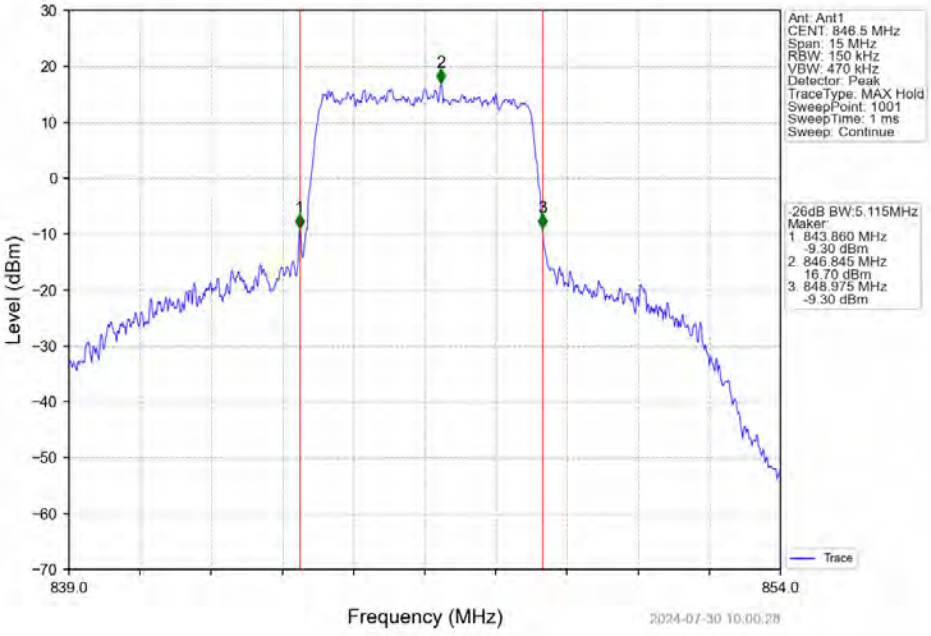
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



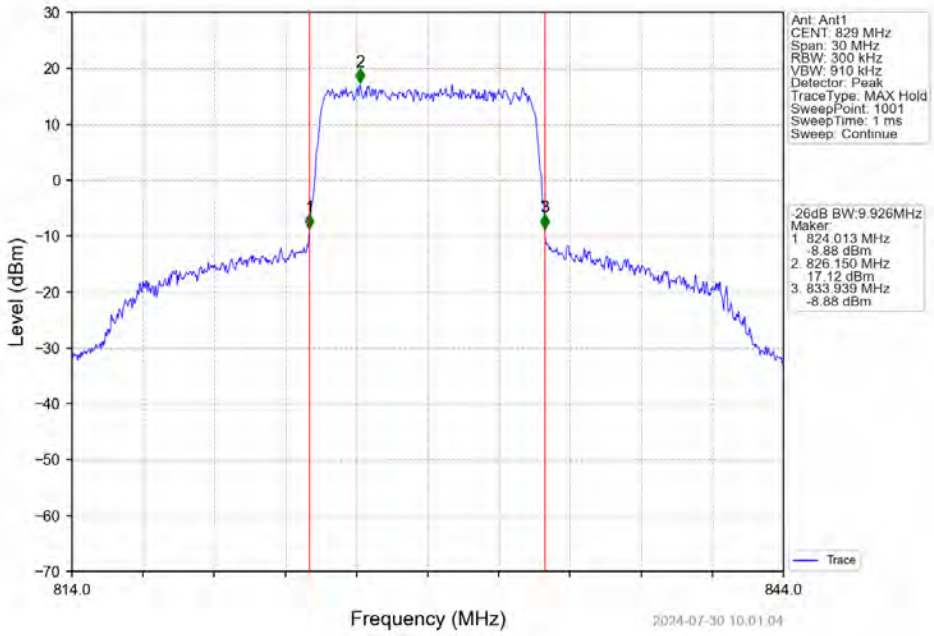
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



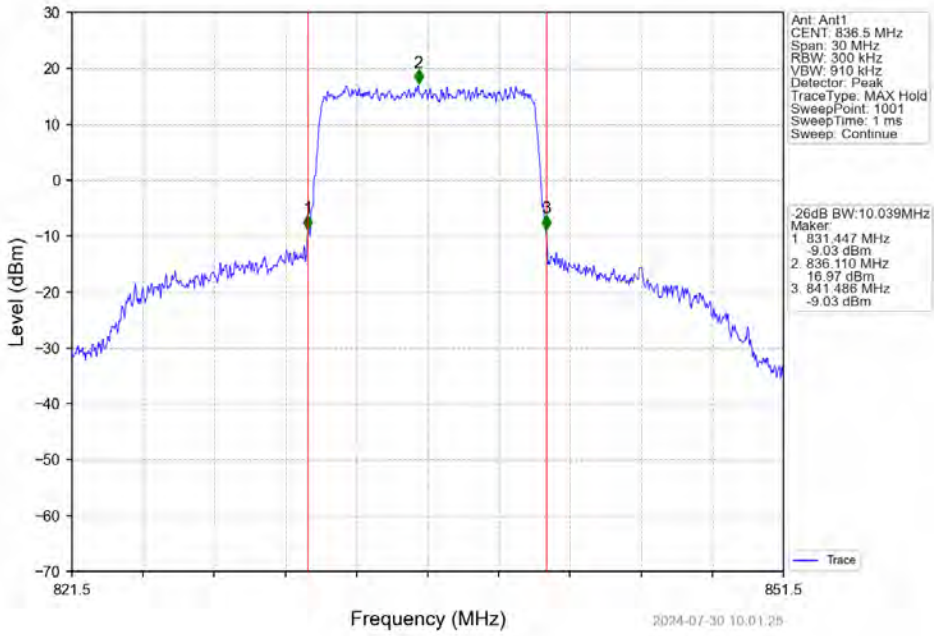
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



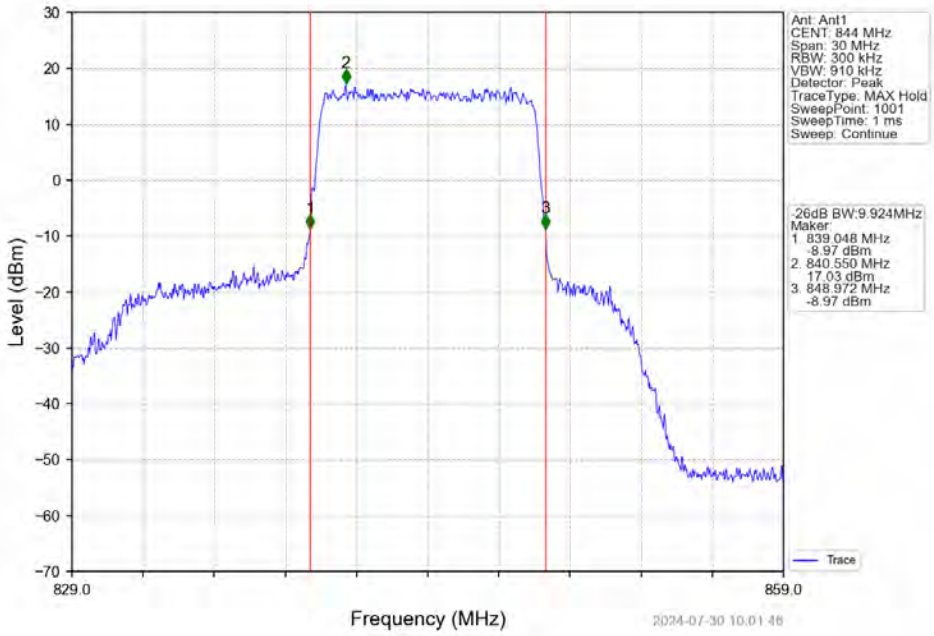
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



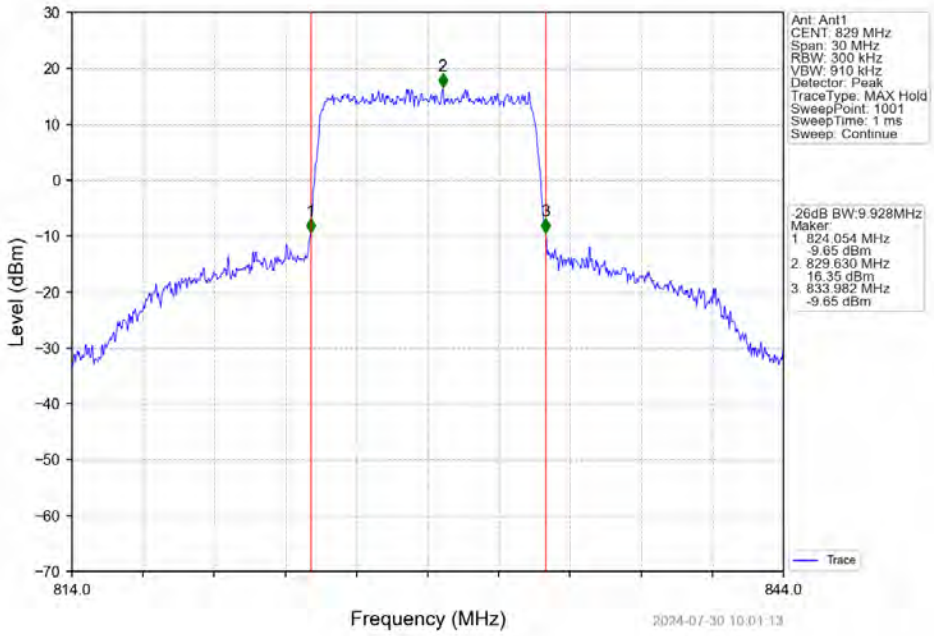
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



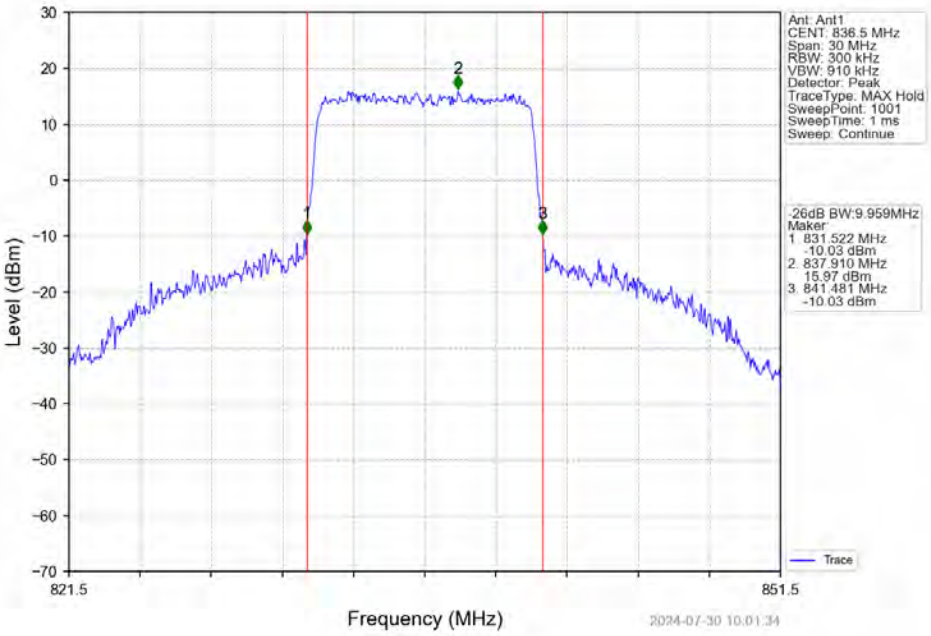
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



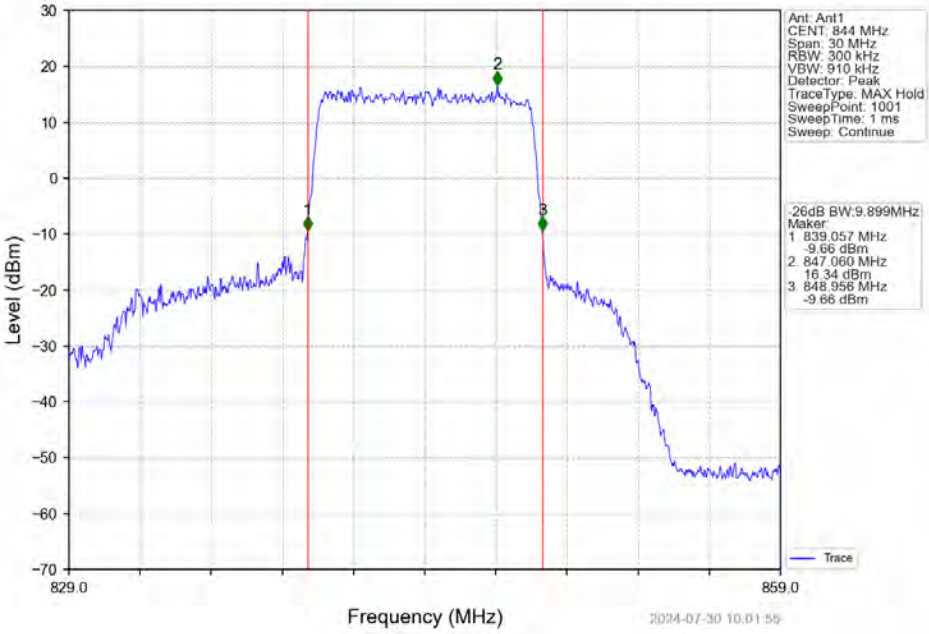
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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 Test Result

5.1.1 B5_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	3.94	<=13	Pass
	836.5	6	0	4.51	<=13	Pass
	848.3	6	0	3.47	<=13	Pass
16QAM	824.7	6	0	5.13	<=13	Pass
	836.5	6	0	5.39	<=13	Pass
	848.3	6	0	4.49	<=13	Pass

5.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	4.25	<=13	Pass
	836.5	15	0	4.69	<=13	Pass
	847.5	15	0	4.33	<=13	Pass
16QAM	825.5	15	0	5.15	<=13	Pass
	836.5	15	0	5.58	<=13	Pass
	847.5	15	0	5.23	<=13	Pass

5.1.3 B5_5MHz

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	4.70	<=13	Pass
	836.5	25	0	5.08	<=13	Pass
	846.5	25	0	5.01	<=13	Pass
16QAM	826.5	25	0	5.44	<=13	Pass
	836.5	25	0	5.80	<=13	Pass
	846.5	25	0	5.79	<=13	Pass

5.1.4 B5_10MHz

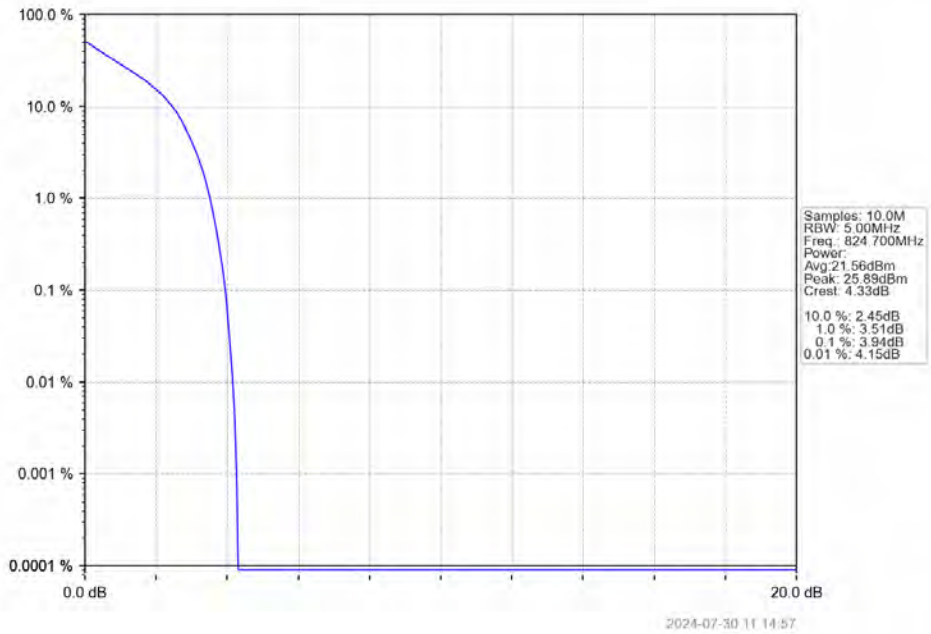
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	4.72	<=13	Pass
	836.5	50	0	5.13	<=13	Pass
	844	50	0	5.28	<=13	Pass
16QAM	829	50	0	5.50	<=13	Pass
	836.5	50	0	5.90	<=13	Pass

	844	50	0	6.08	<=13	Pass

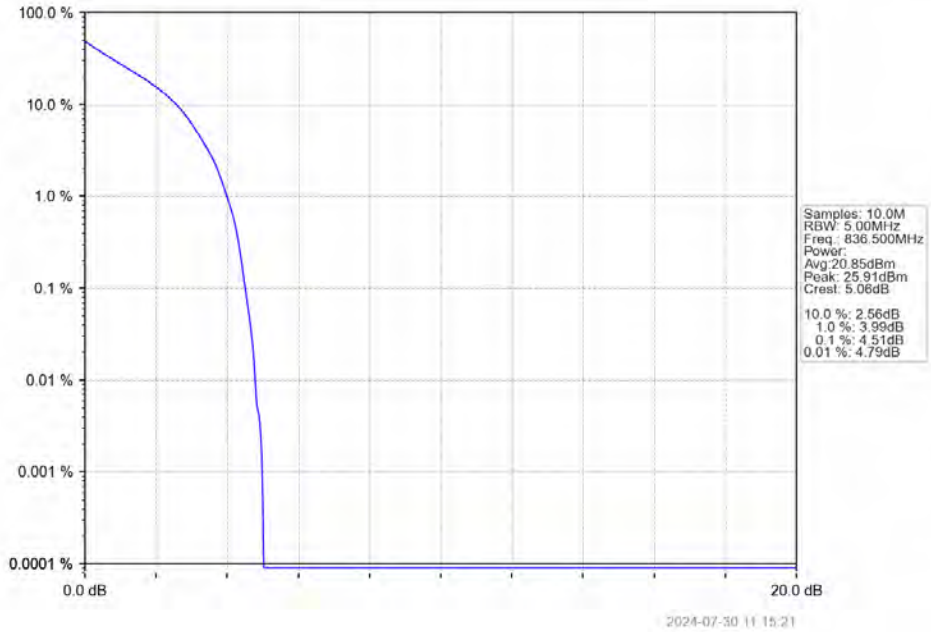
5.2 Test Graph

5.2.1 B5_1.4MHz

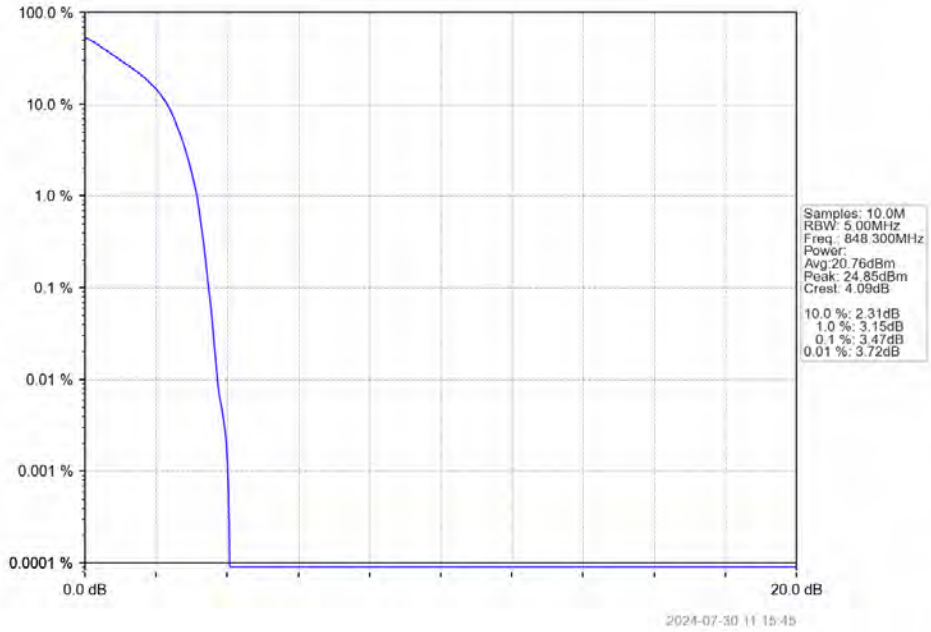
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



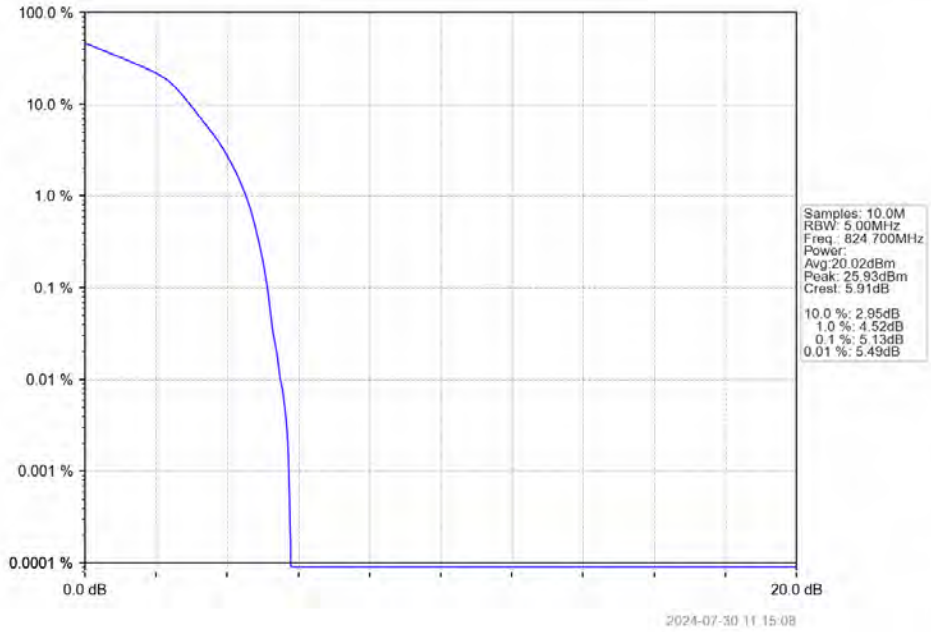
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



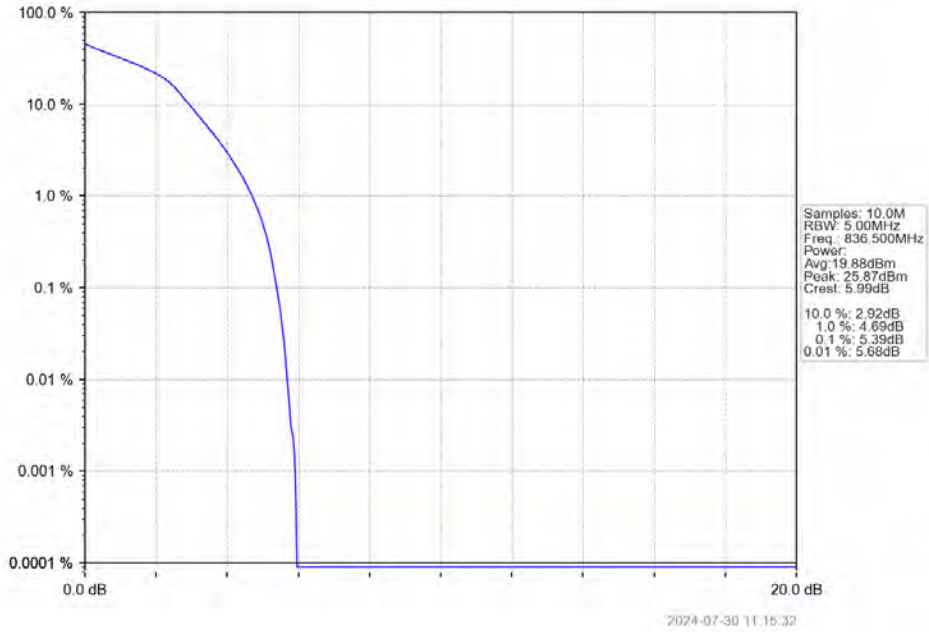
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



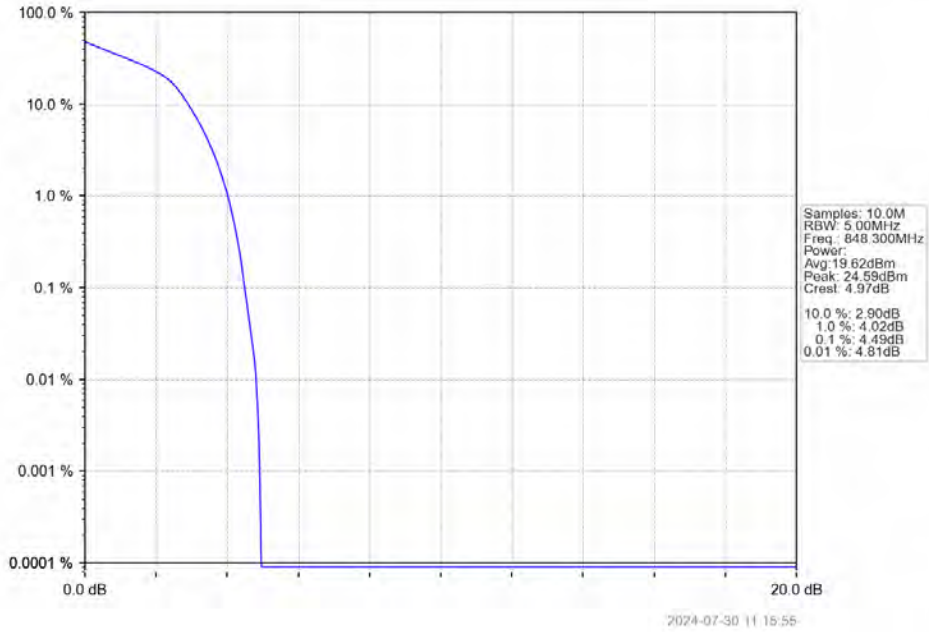
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

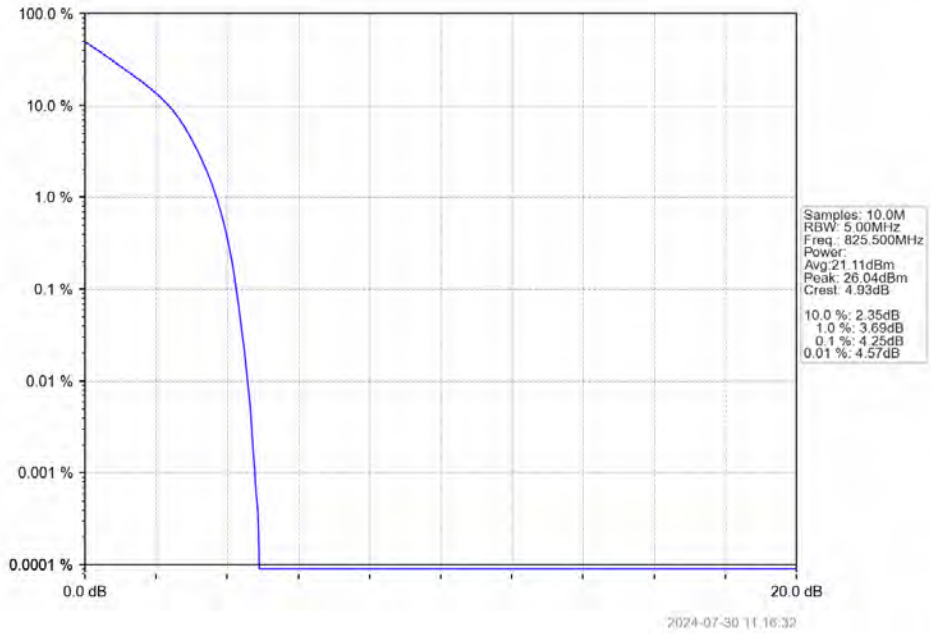


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

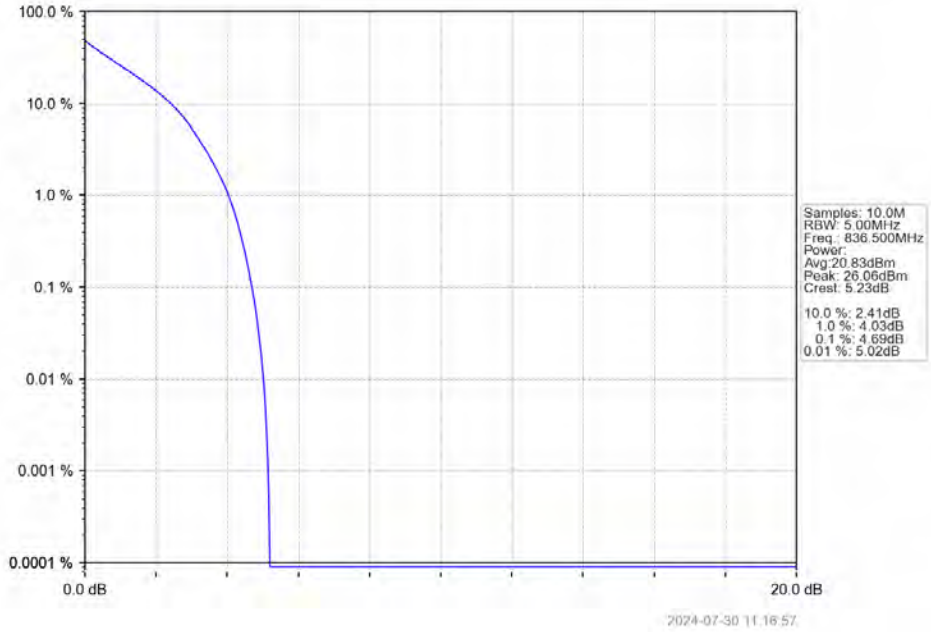


5.2.2 B5_3MHz

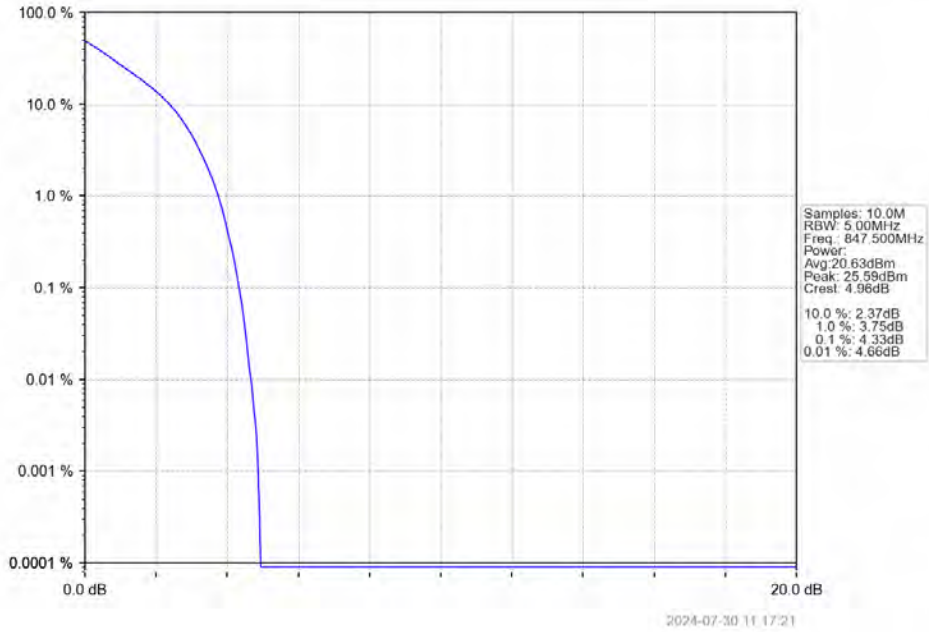
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



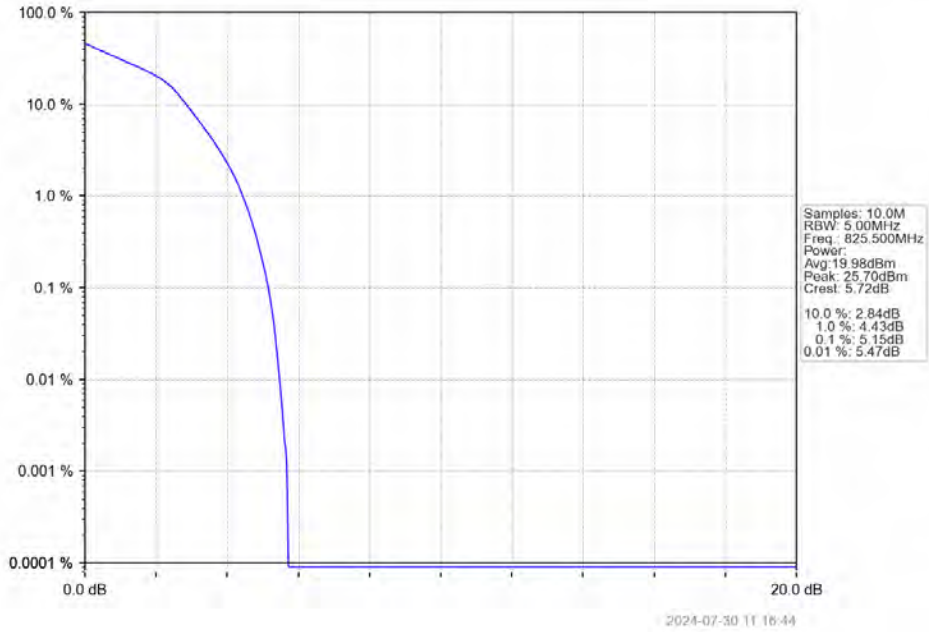
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



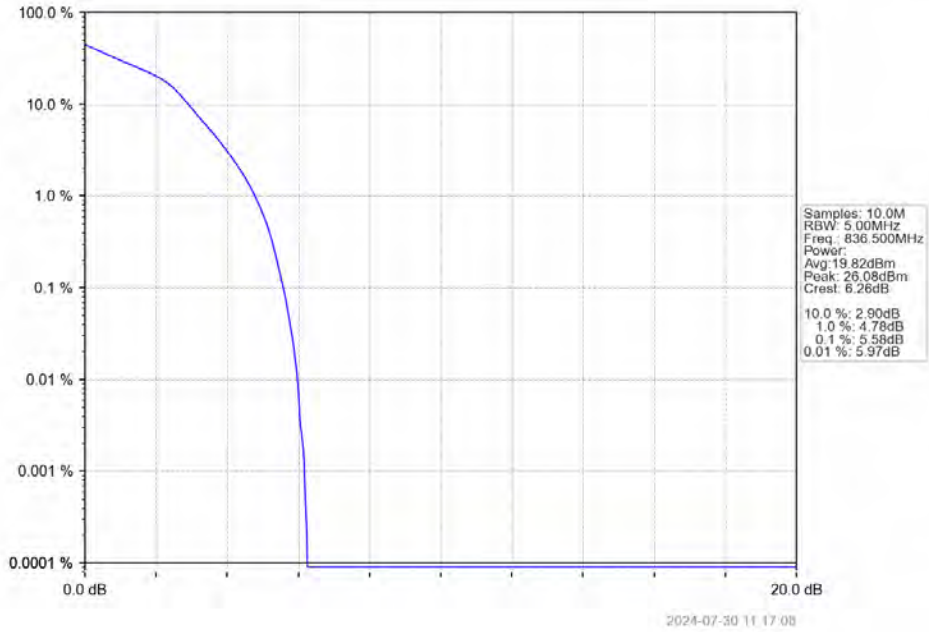
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



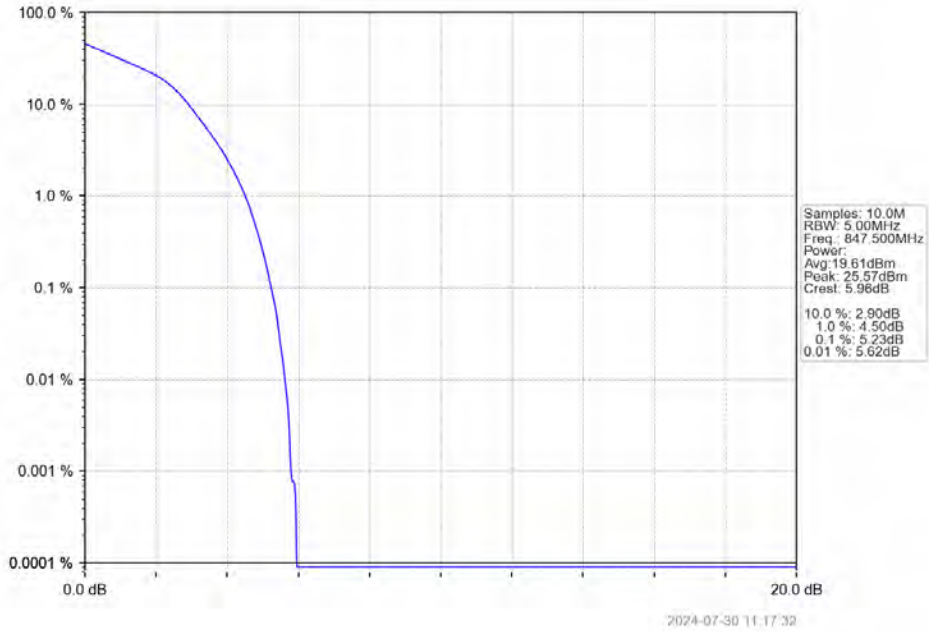
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



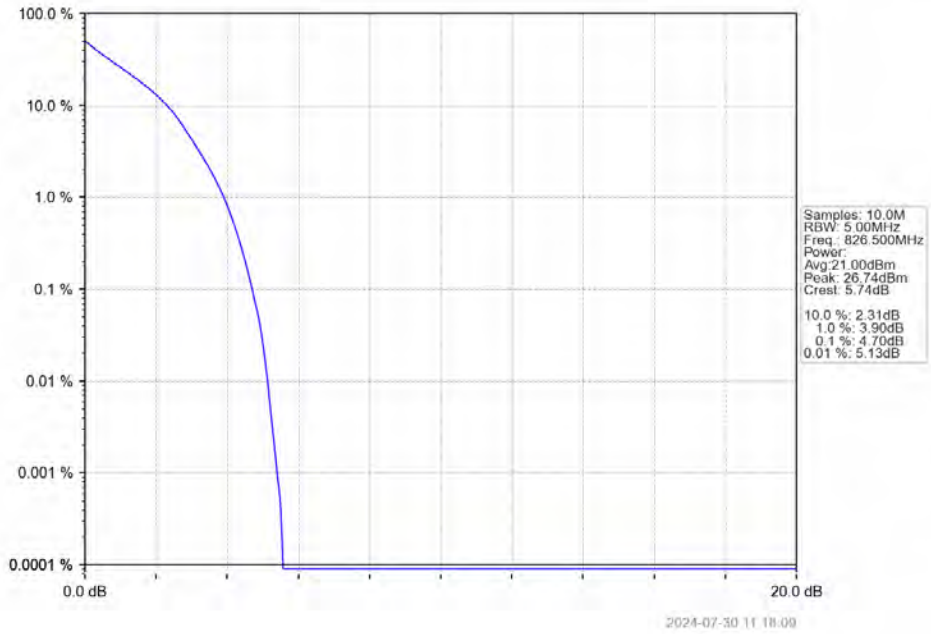
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV

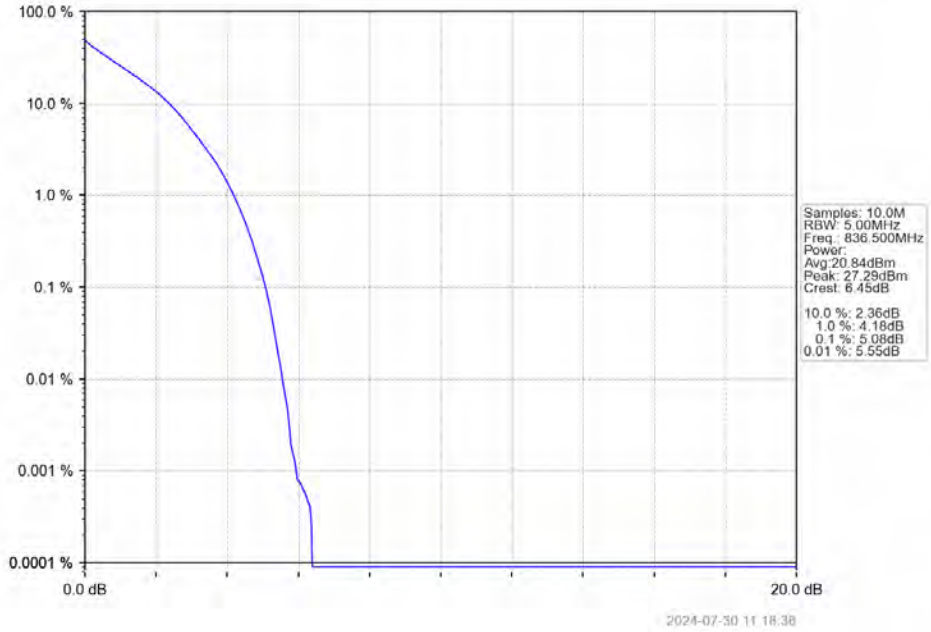


Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV

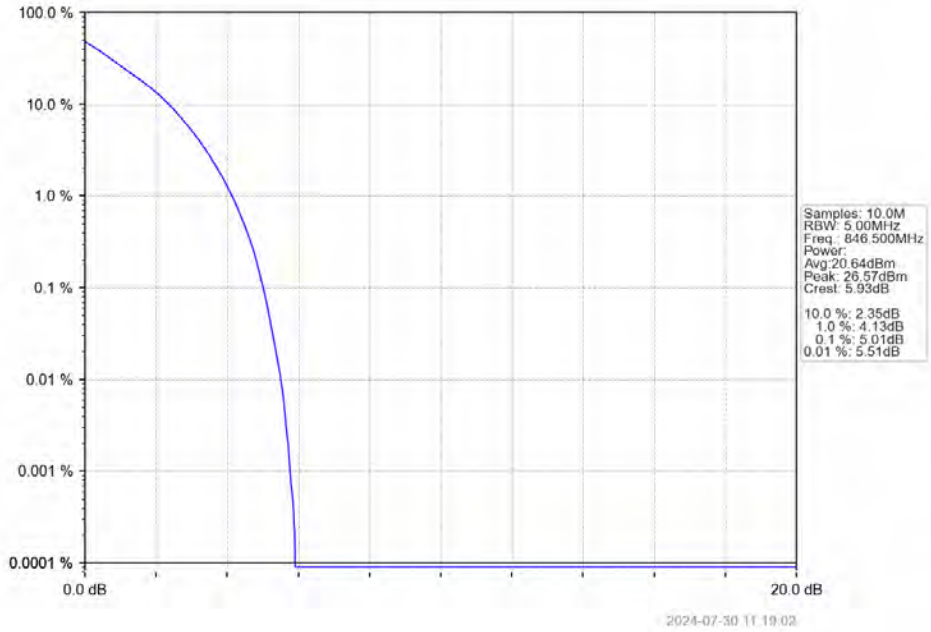


5.2.3 B5_5MHz

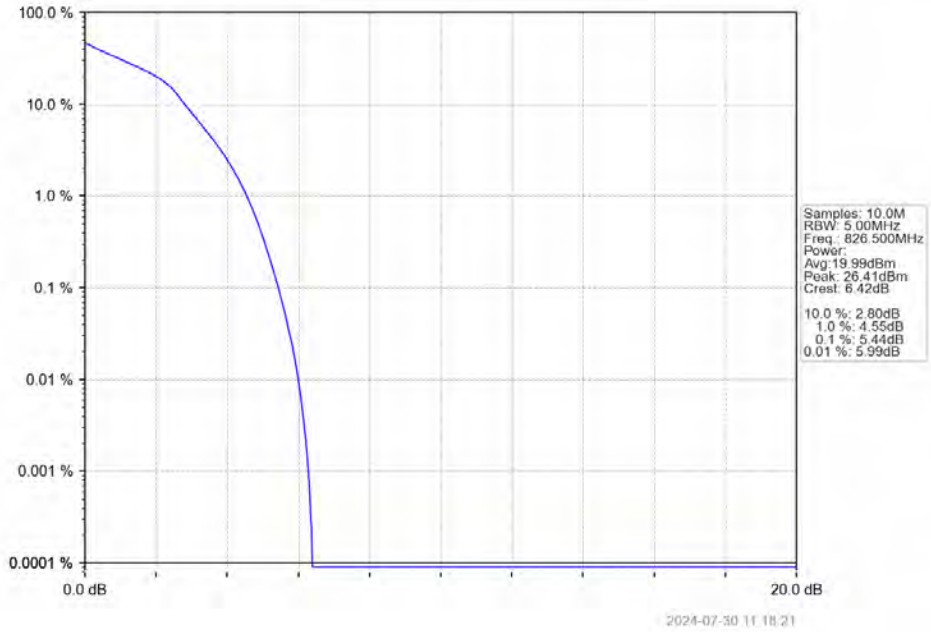
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV


Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV


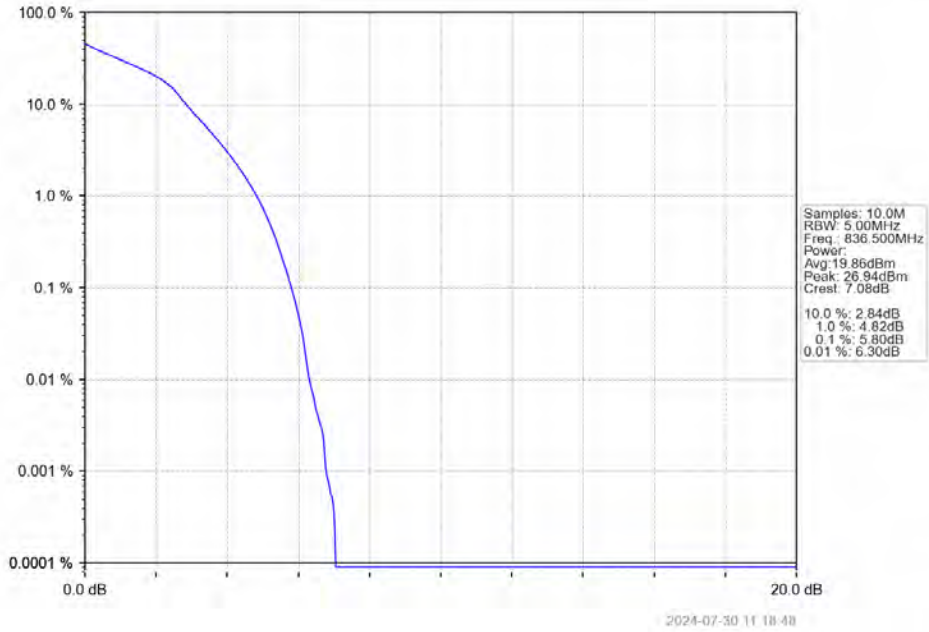
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



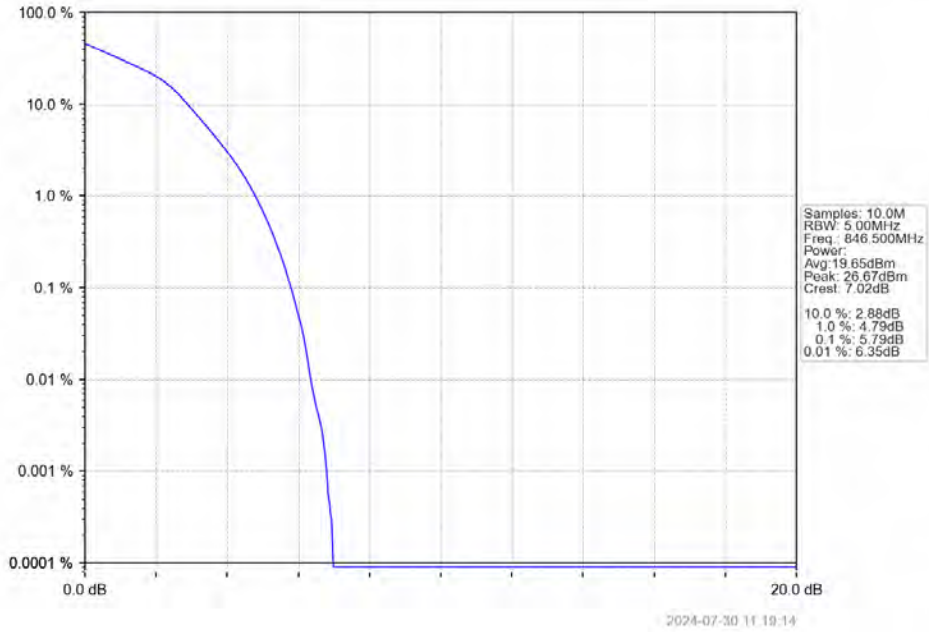
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV

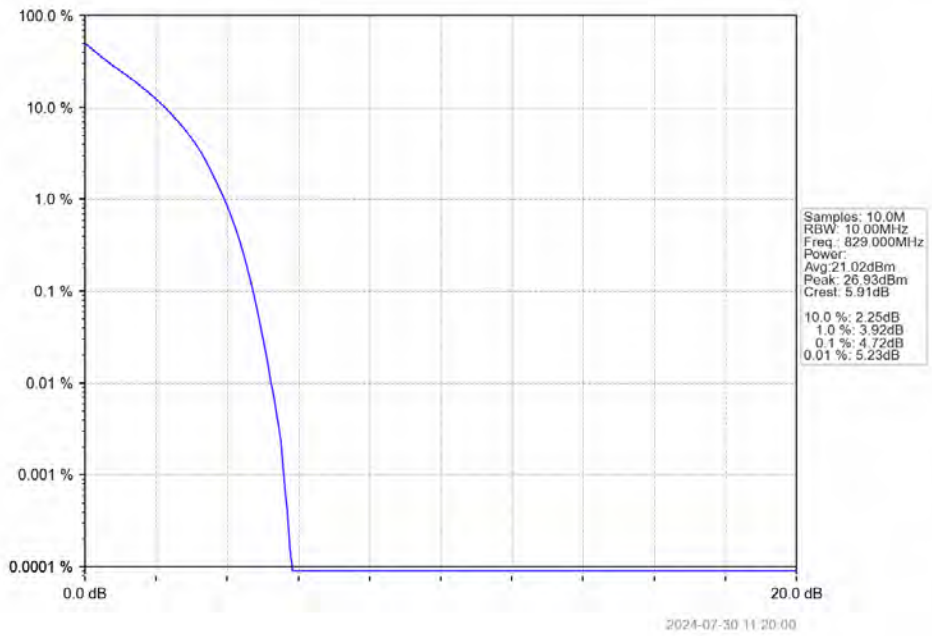


Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV

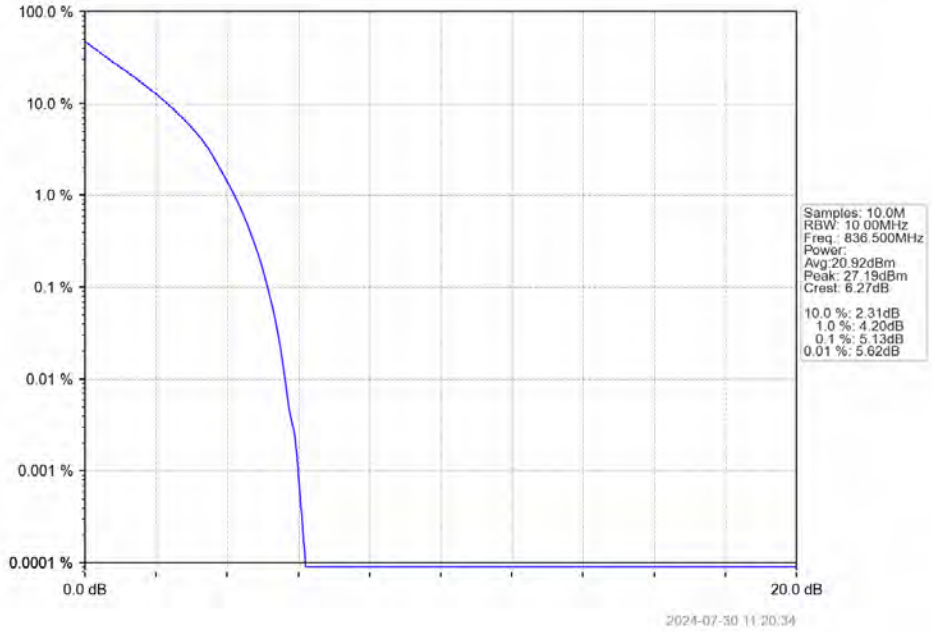


5.2.4 B5_10MHz

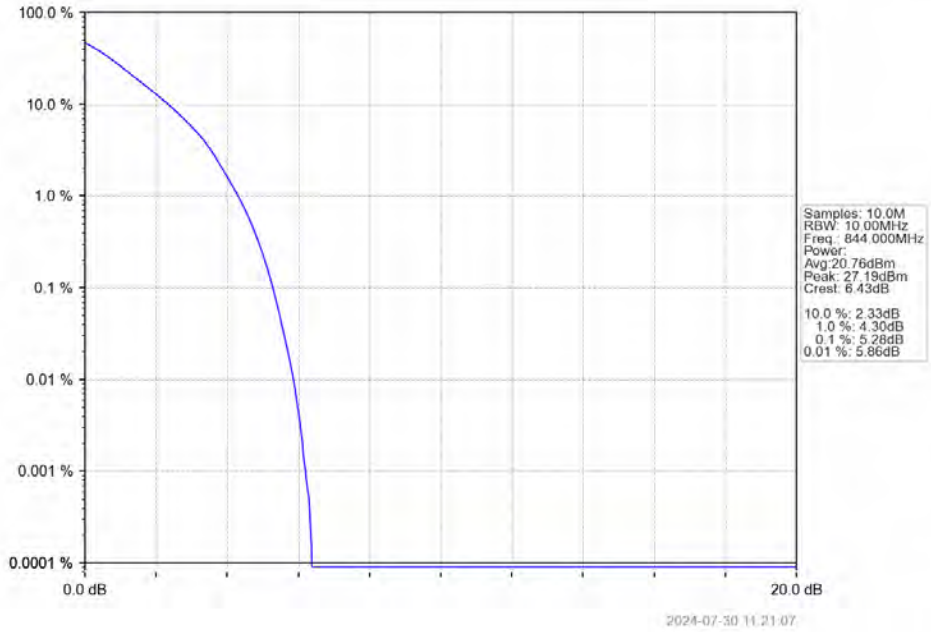
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



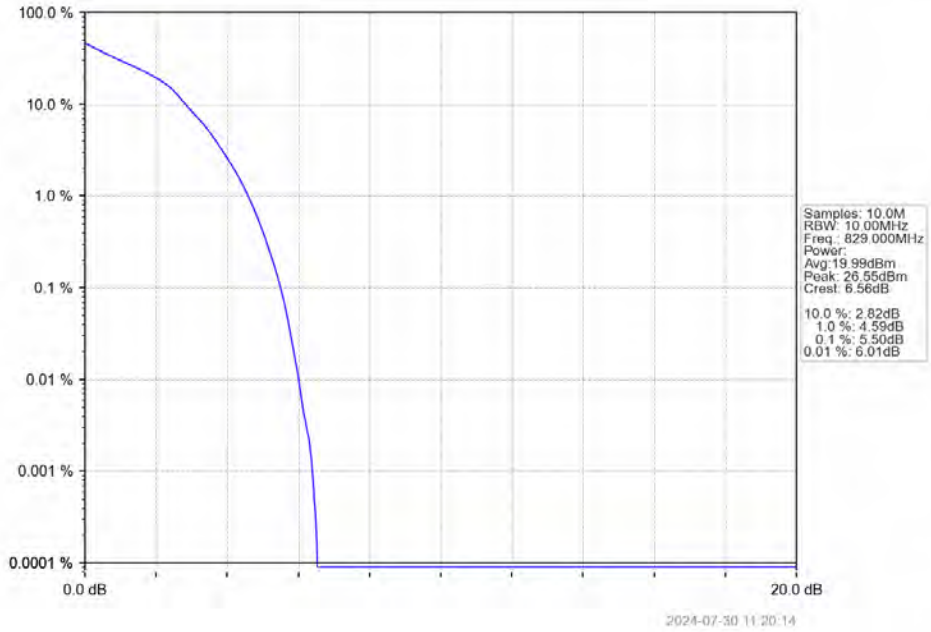
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



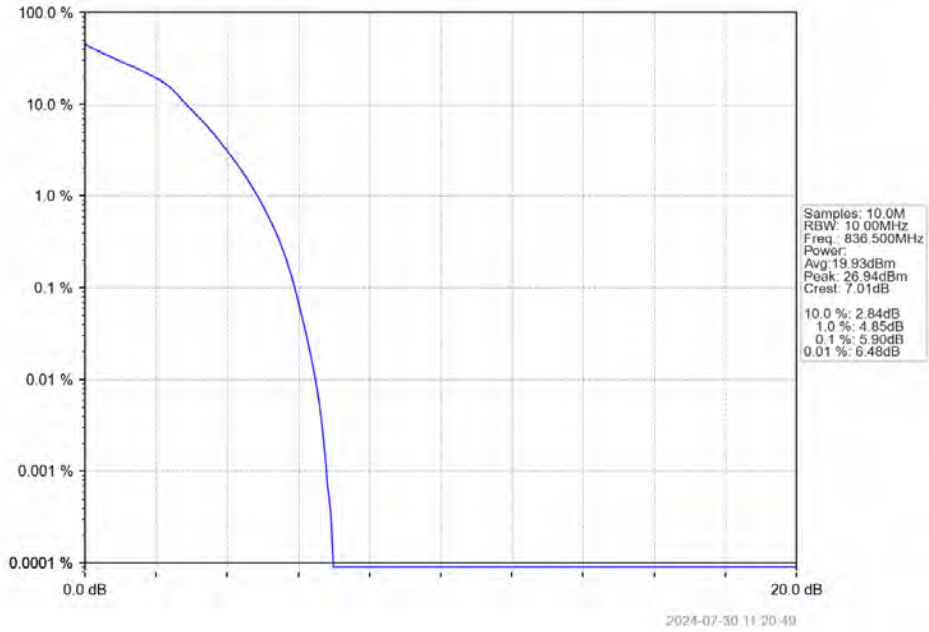
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



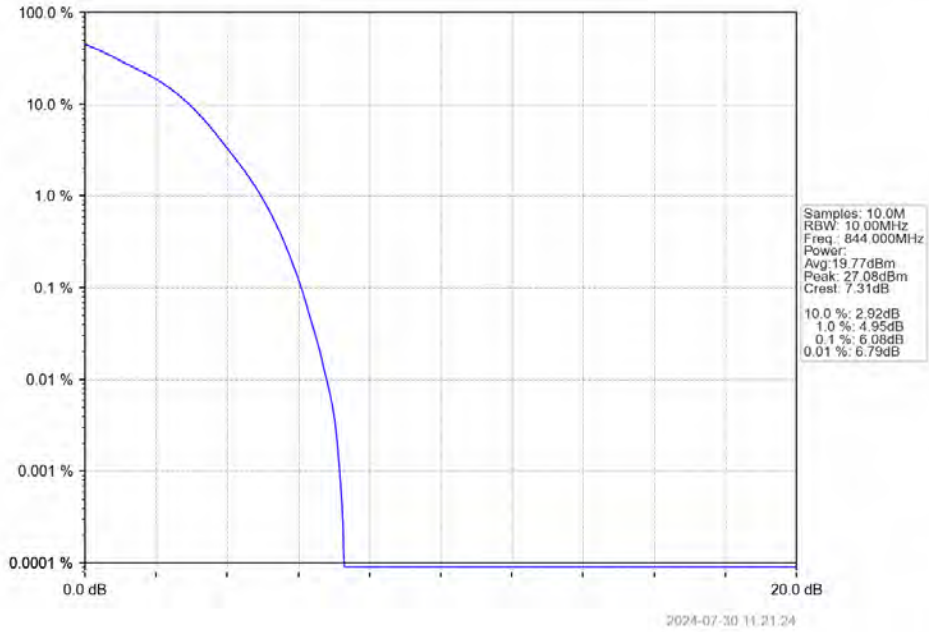
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B5_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

6.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B5_5MHz

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
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	826.5	1	0	Refer To Test Graph		Pass

		25	0	Refer To Test Graph	Pass
	836.5	1	0	Refer To Test Graph	Pass
	846.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

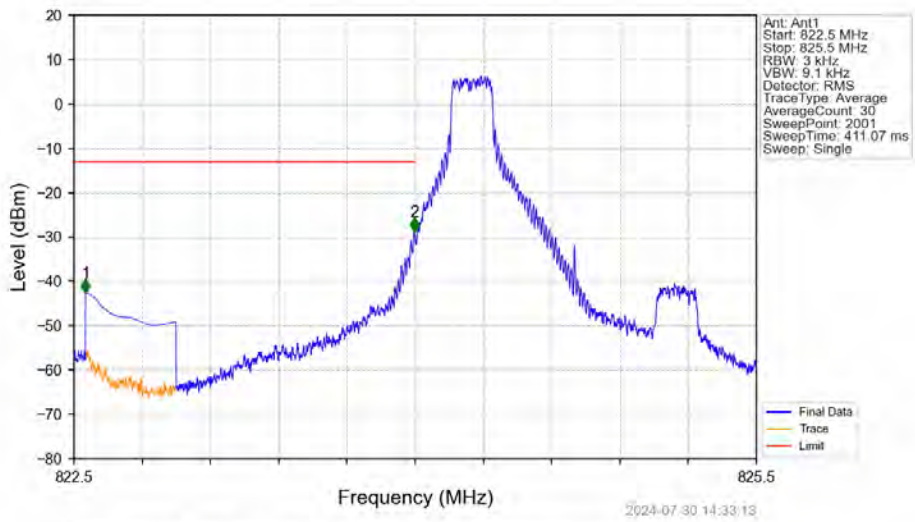
6.1.4 B5_10MHz

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

6.2 Test Graph

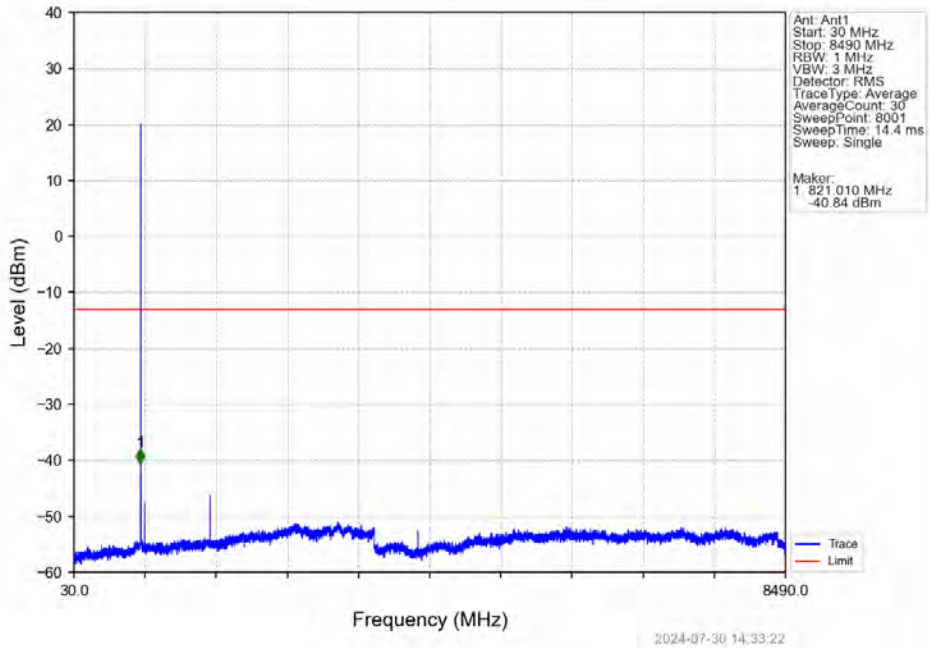
6.2.1 B5_1.4MHz

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

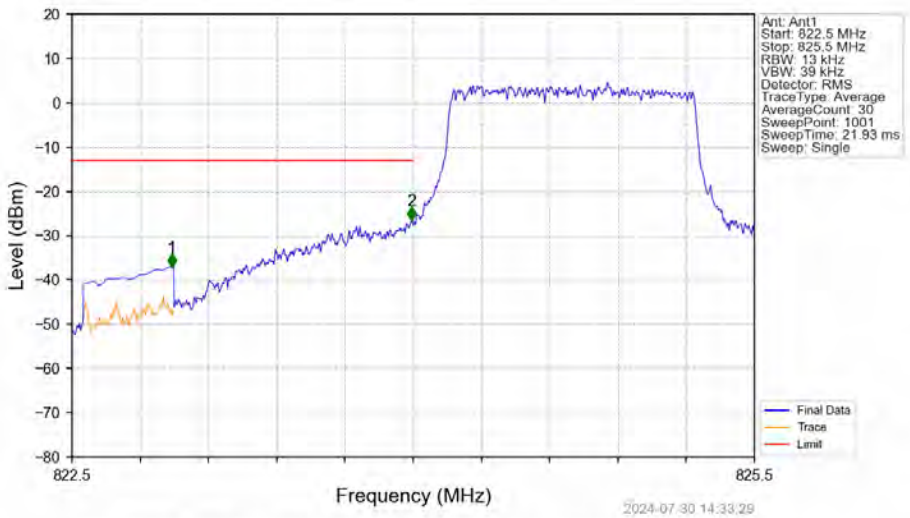


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-42.52	-13	Pass
823	824	0.003	/	2	823.995	-28.72	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

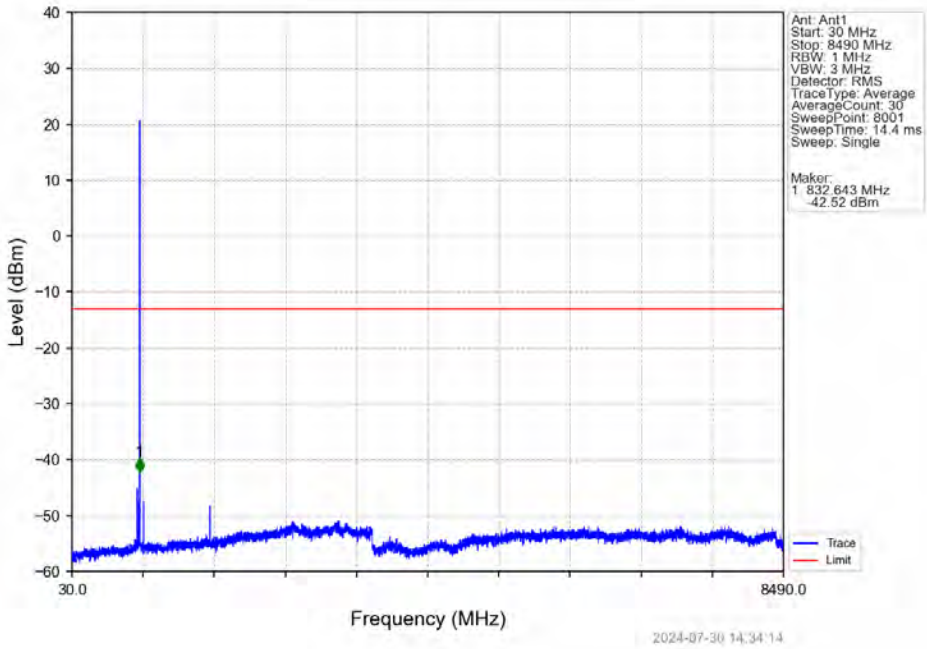


Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

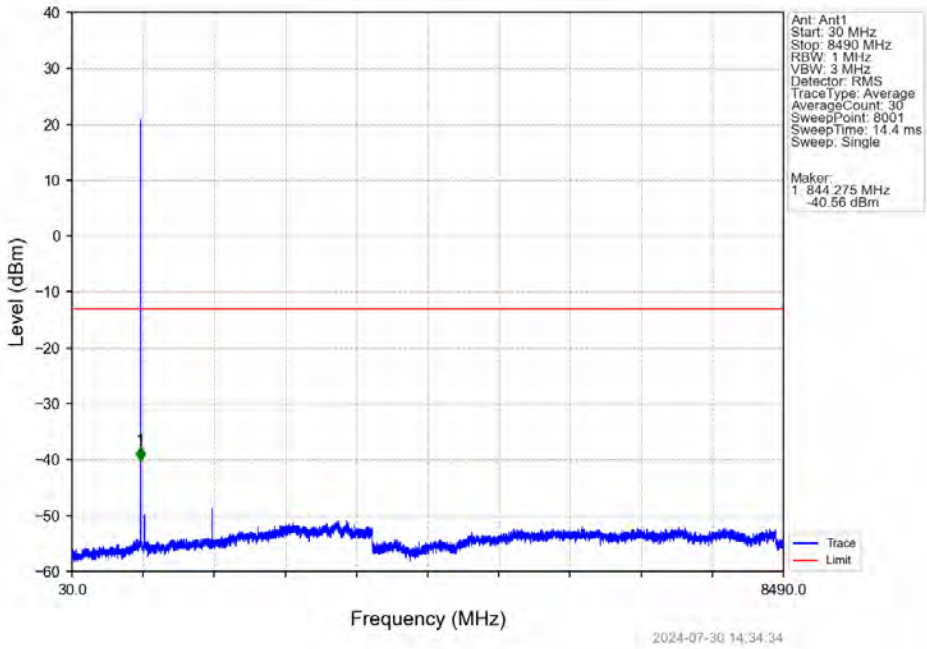


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.938	-37.07	-13	Pass
823	824	0.013	/	2	823.994	-26.59	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

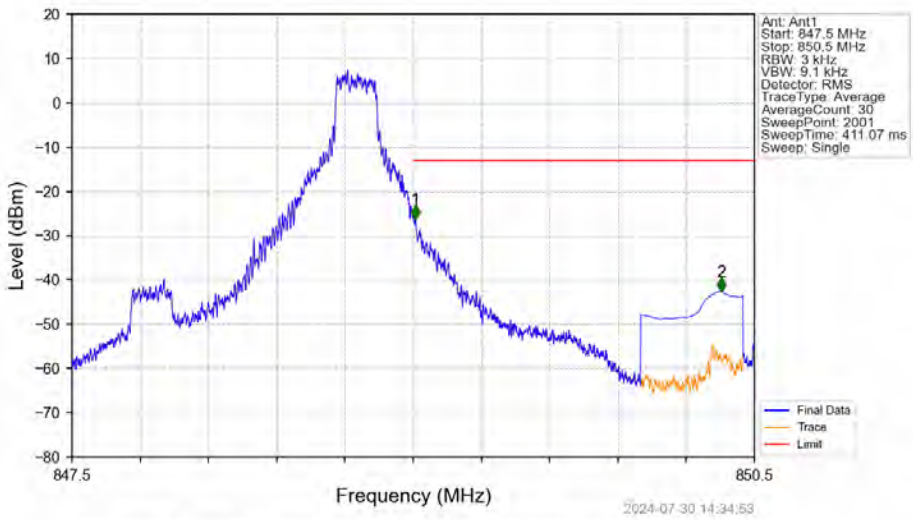
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_0_NTNV

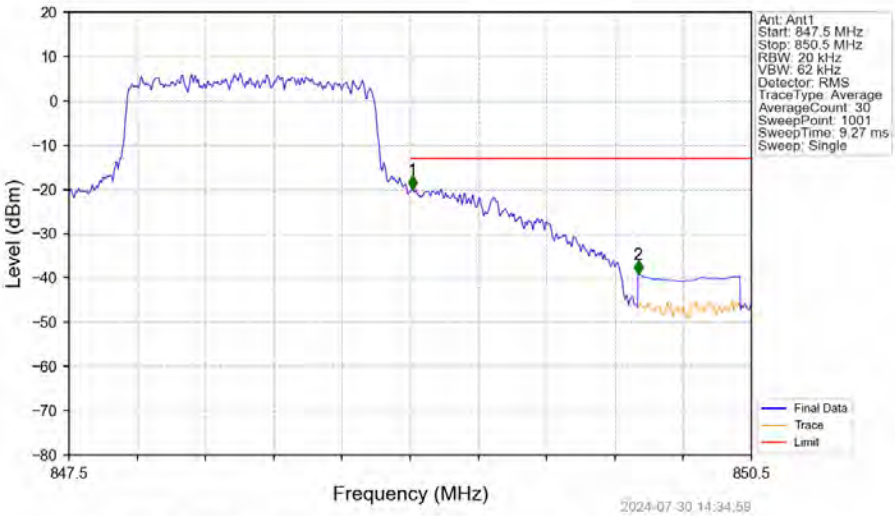


Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_5_NTNV



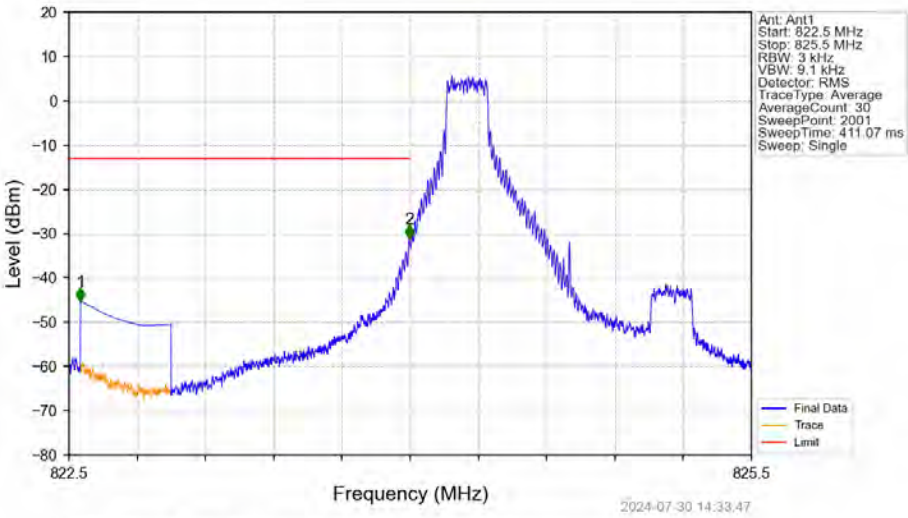
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.010	-26.20	-13	Pass
850	850.5	0.1	CHP	2	850.355	-42.57	-13	Pass

Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



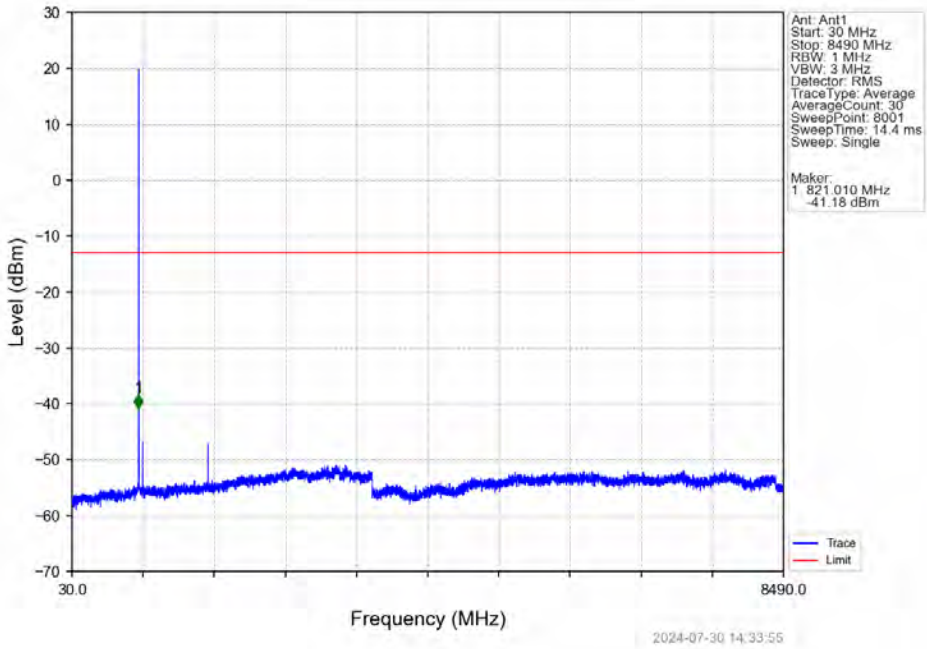
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.02	/	/	/	/	/	/
849	850	0.02	/	1	849.009	-19.94	-13	Pass
850	850.5	0.1	CHP	2	850.002	-39.19	-13	Pass

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

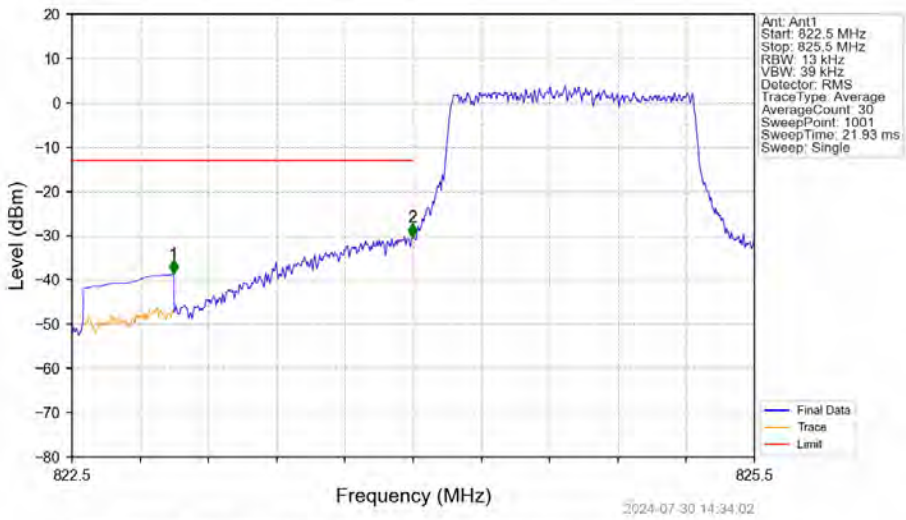


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-45.32	-13	Pass
823	824	0.003	/	2	823.995	-31.17	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

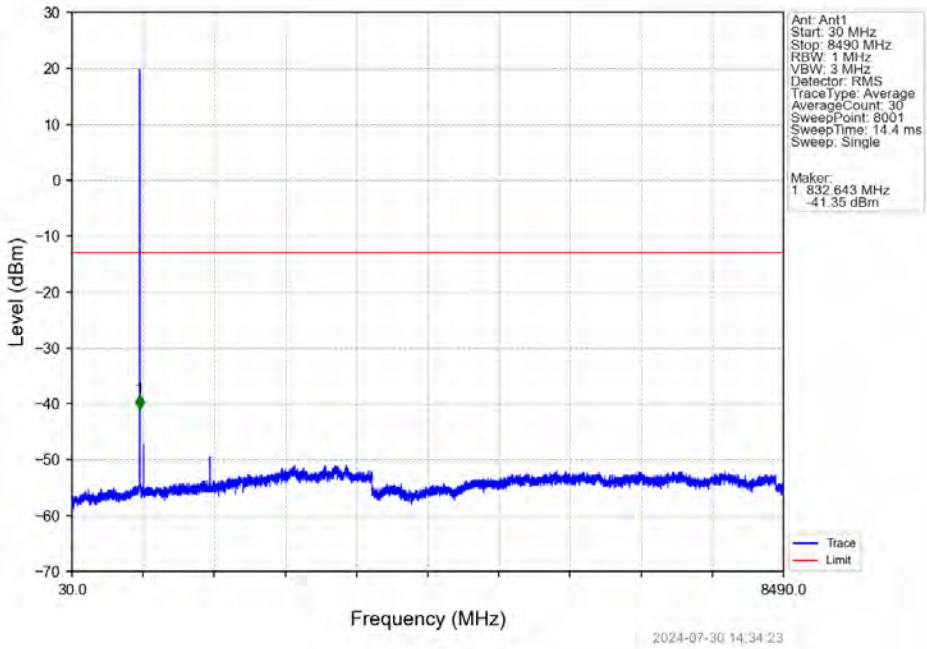


Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

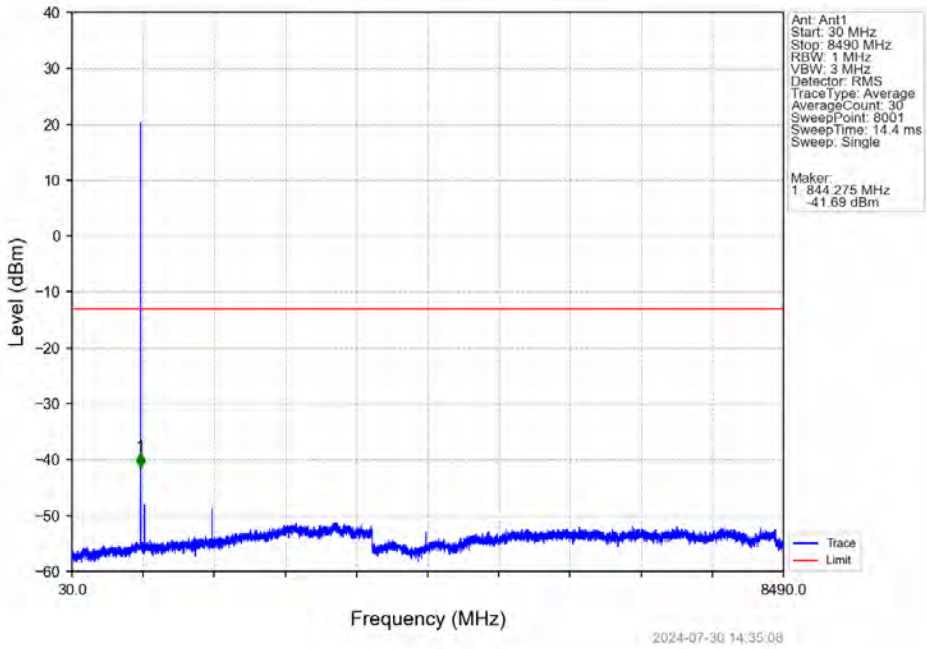


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-38.59	-13	Pass
823	824	0.013	/	2	823.997	-30.31	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

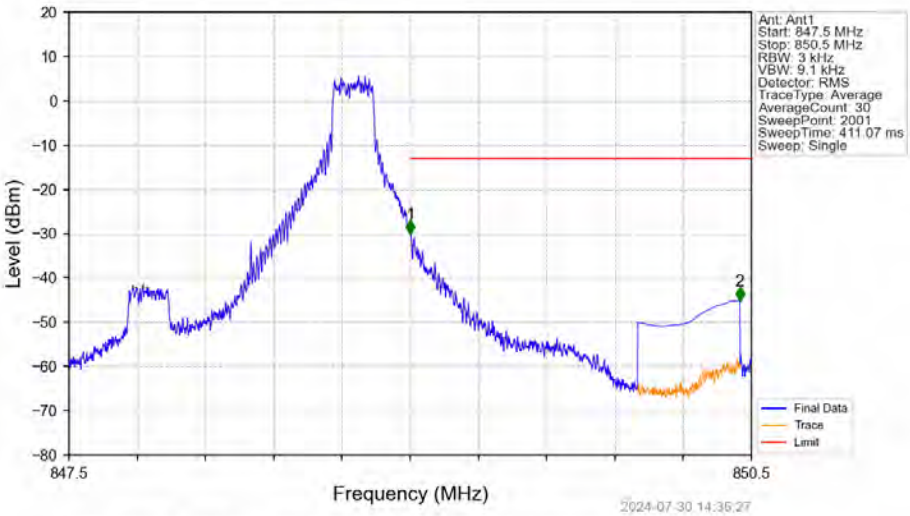
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV

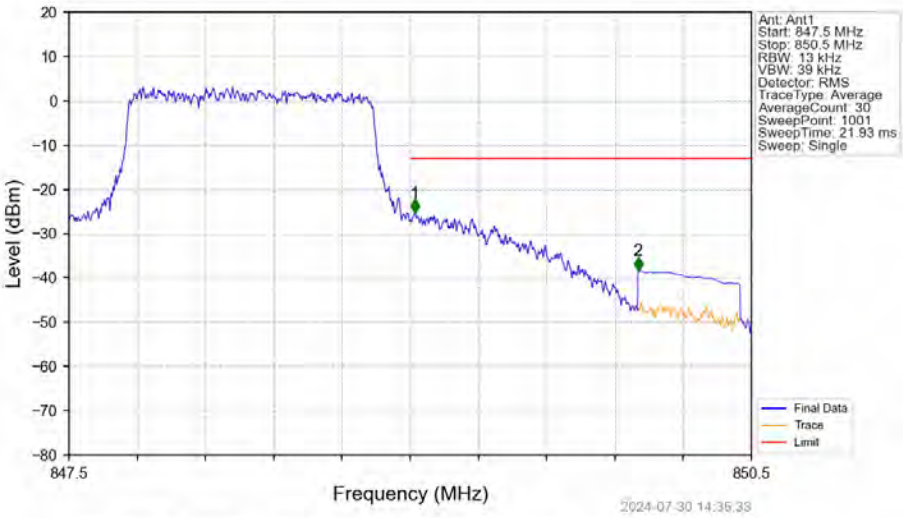


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



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	849.001	-30.10	-13	Pass
850	850.5	0.1	CHP	2	850.449	-45.13	-13	Pass

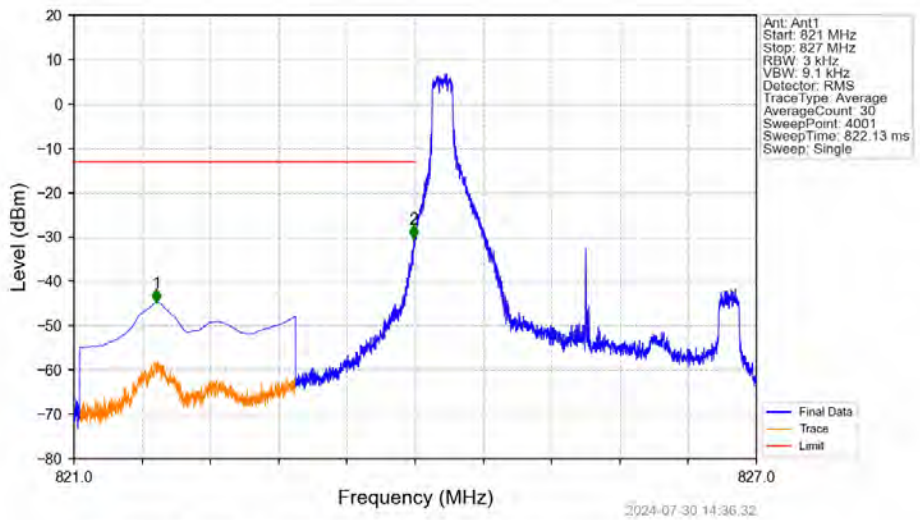
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.021	-25.26	-13	Pass
850	850.5	0.1	CHP	2	850.002	-38.32	-13	Pass

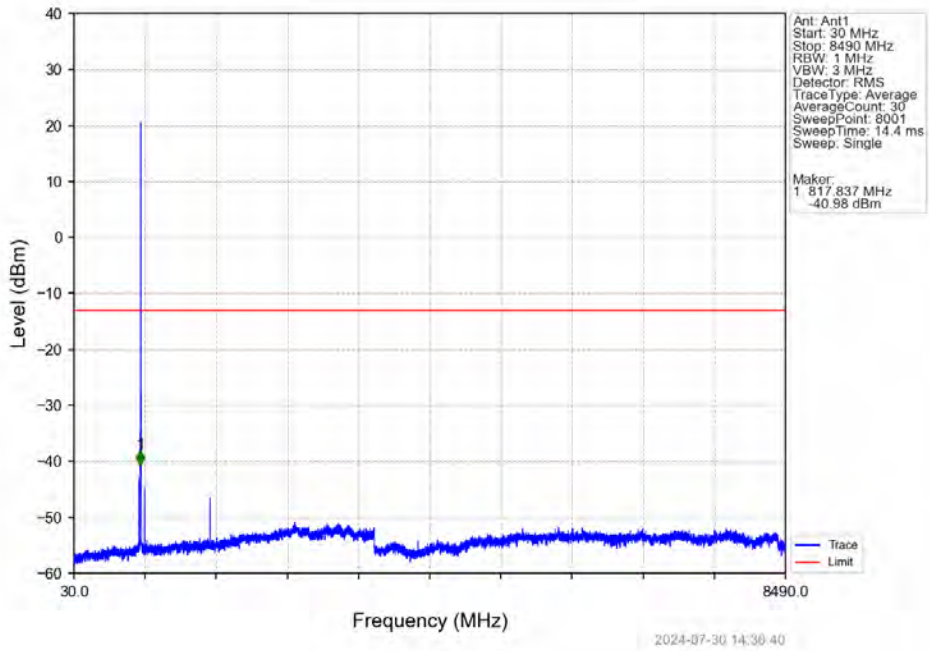
6.2.2 B5_3MHz

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

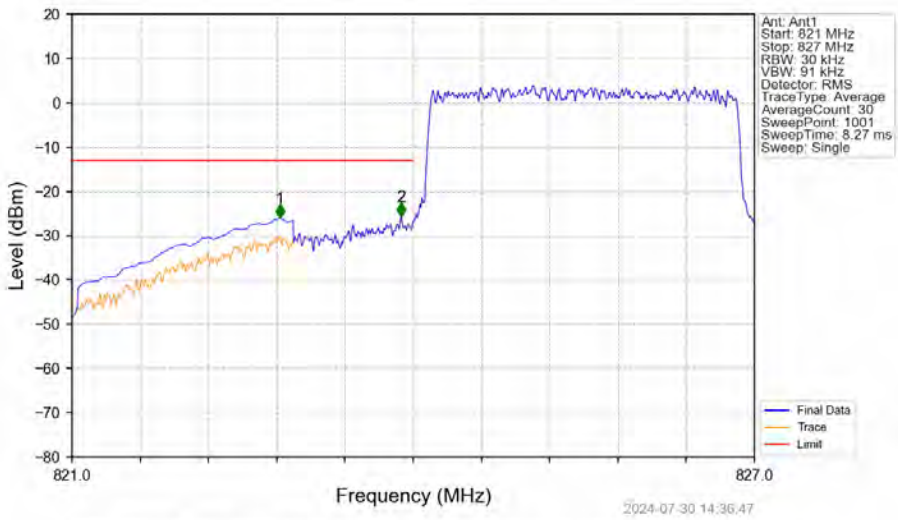


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	821.725	-44.84	-13	Pass
823	824	0.003	/	2	823.988	-30.43	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

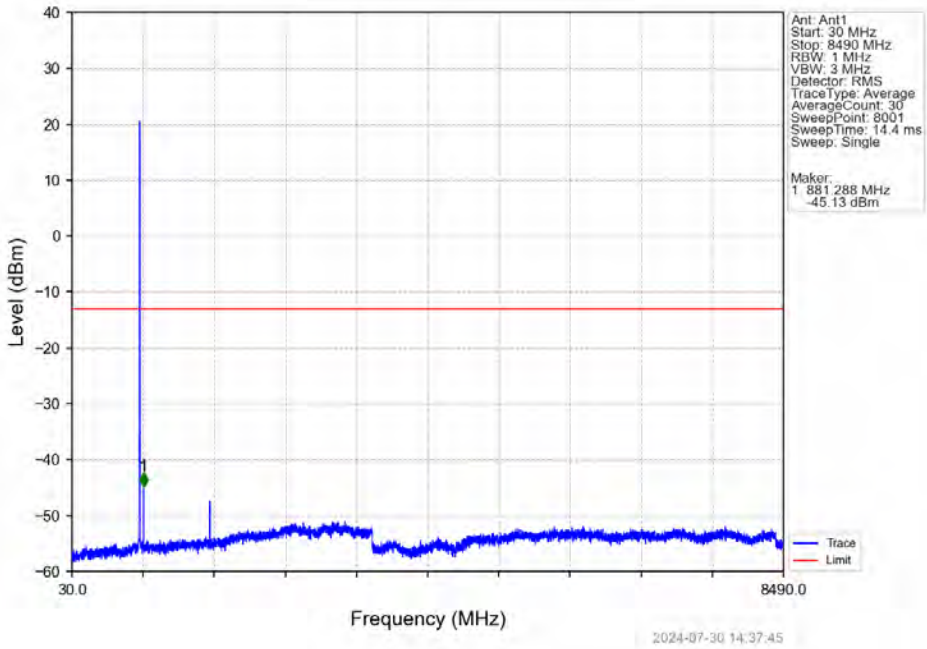


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

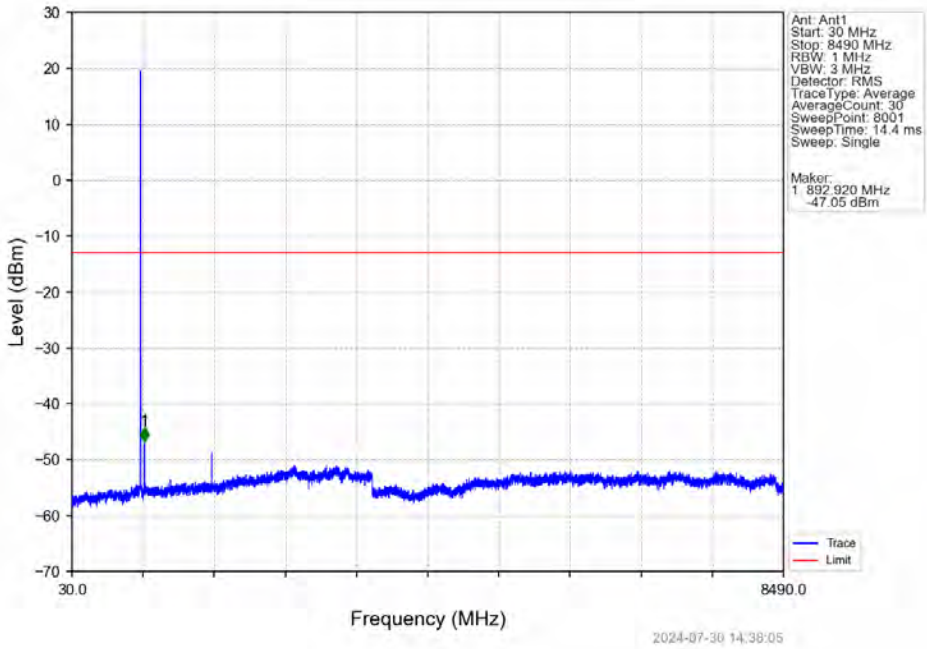


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.830	-26.10	-13	Pass
823	824	0.03	/	2	823.892	-25.71	-13	Pass
824	827	0.03	/	/	/	/	/	/

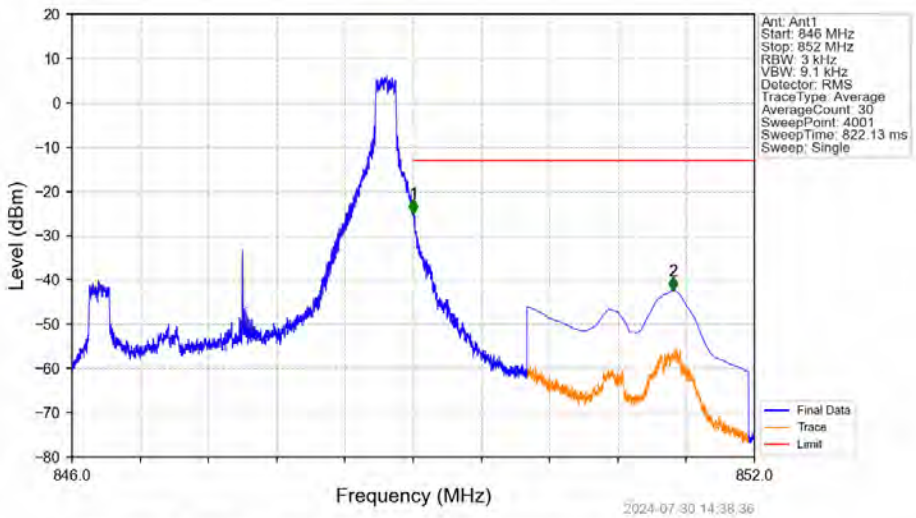
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV

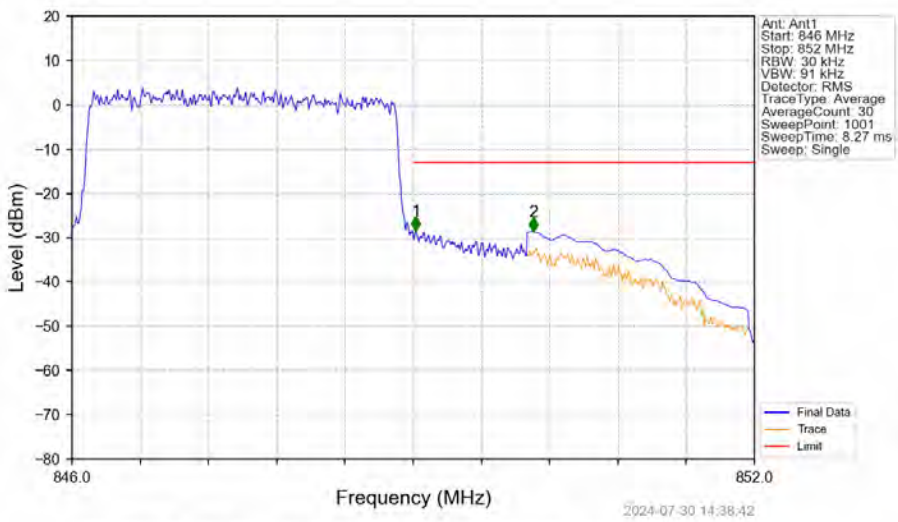


Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



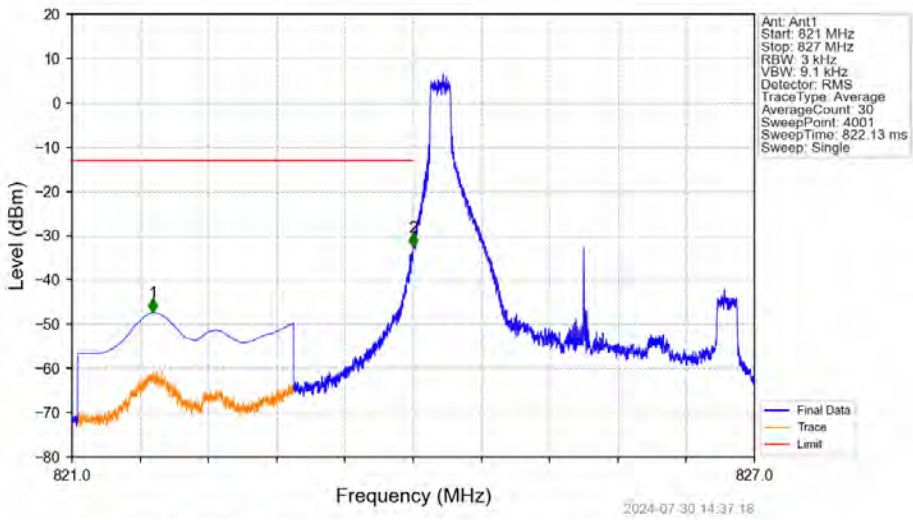
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-24.97	-13	Pass
850	852	0.1	CHP	2	851.284	-42.37	-13	Pass

Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



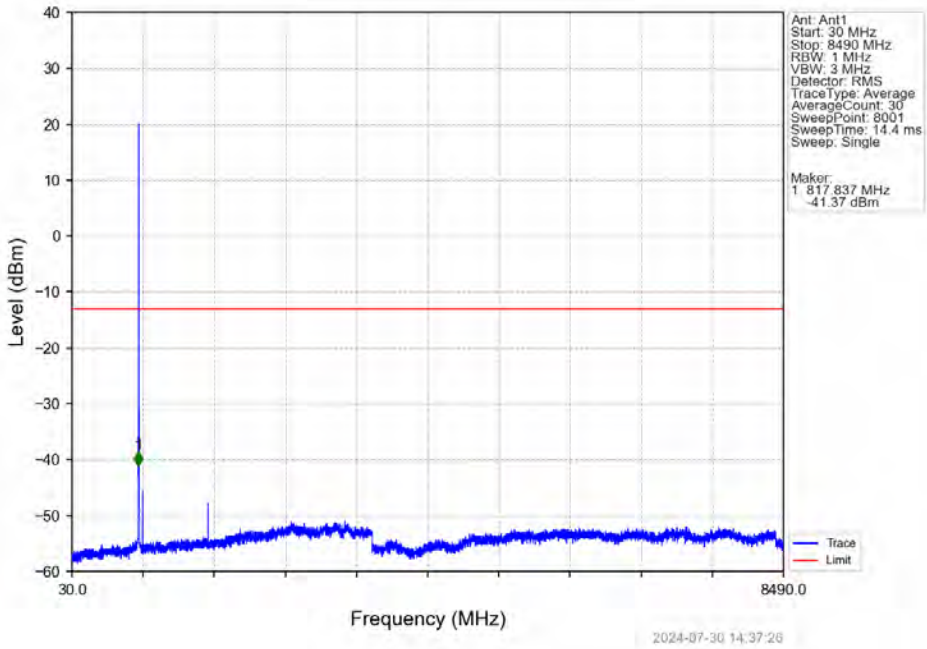
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.024	-28.42	-13	Pass
850	852	0.1	CHP	2	850.056	-28.61	-13	Pass

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

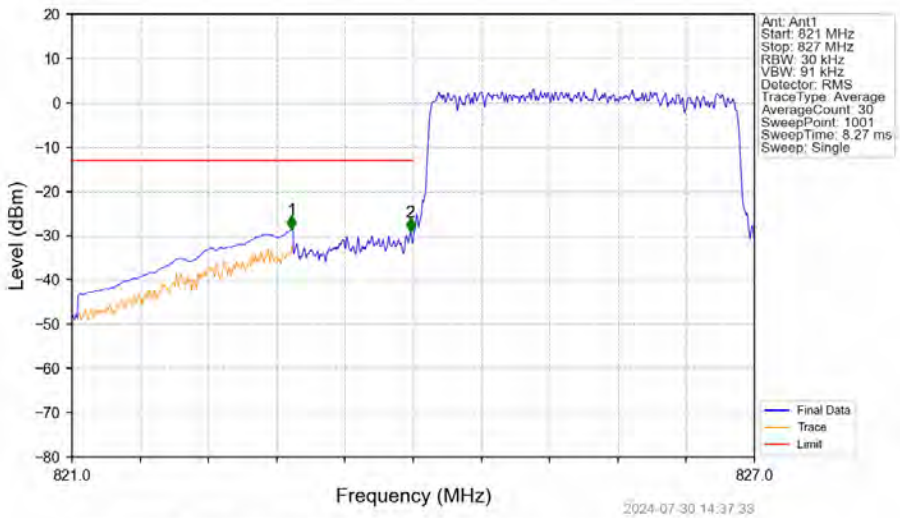


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	821.712	-47.36	-13	Pass
823	824	0.003	/	2	823.999	-32.63	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

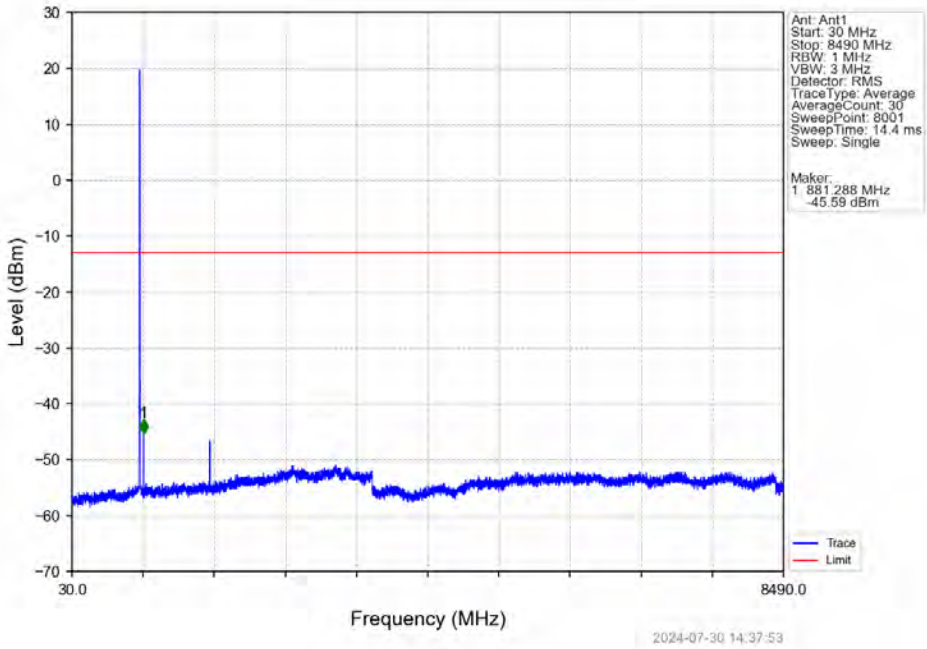


Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

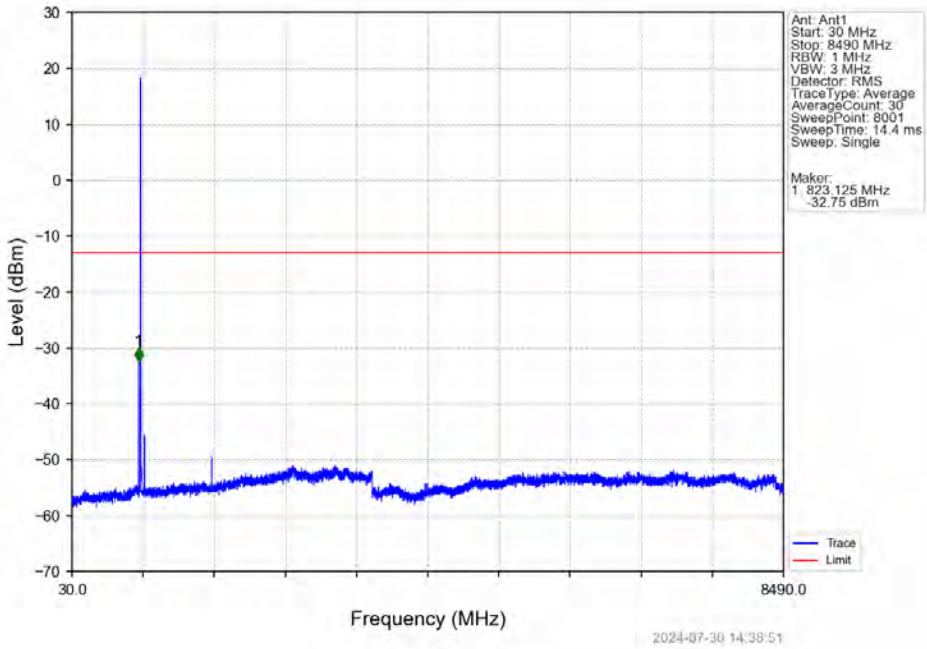


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.932	-28.52	-13	Pass
823	824	0.03	/	2	823.976	-29.07	-13	Pass
824	827	0.03	/	/	/	/	/	/

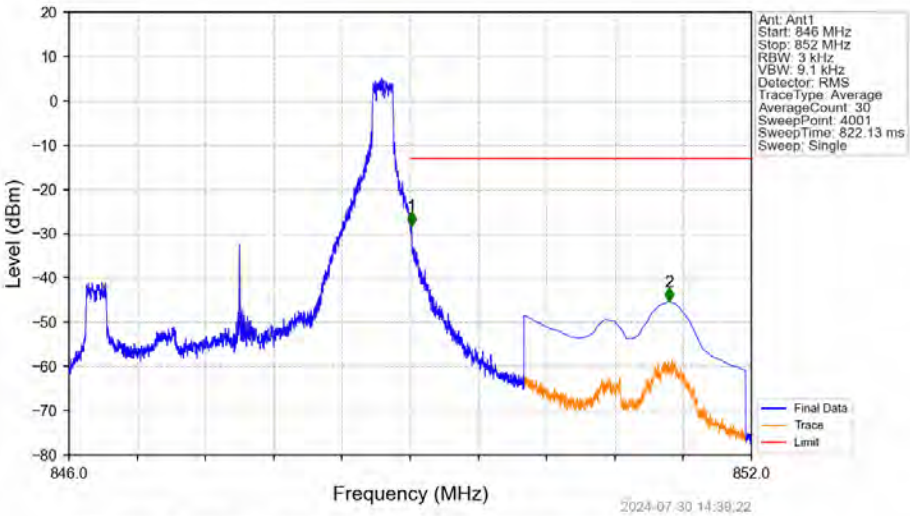
Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV

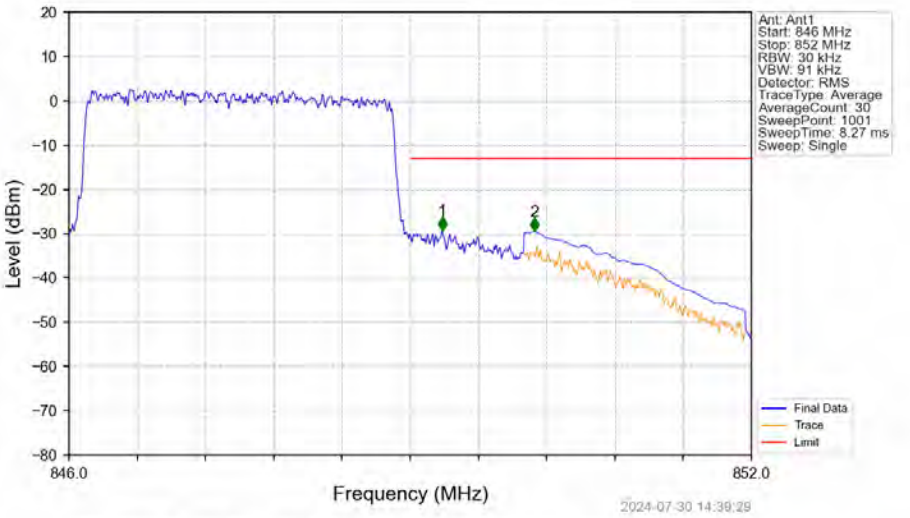


Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.012	-28.28	-13	Pass
850	852	0.1	CHP	2	851.280	-45.29	-13	Pass

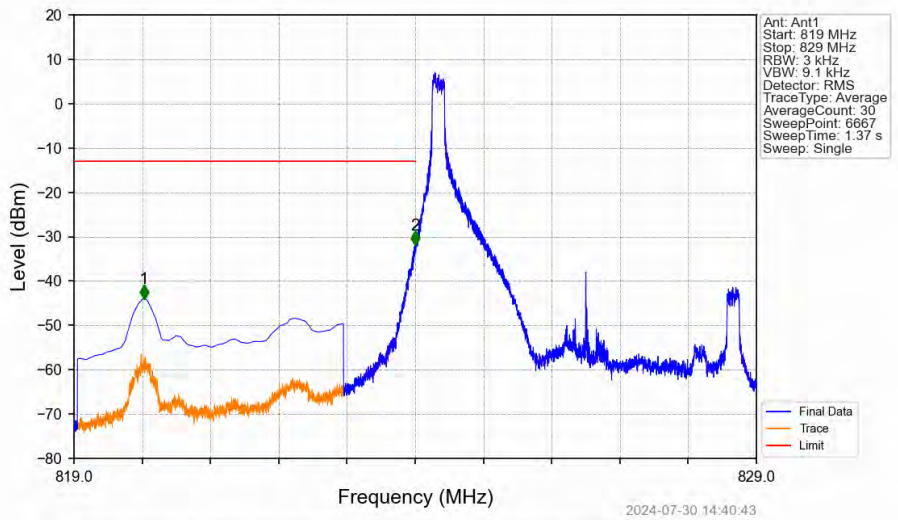
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.282	-29.27	-13	Pass
850	852	0.1	CHP	2	850.092	-29.52	-13	Pass

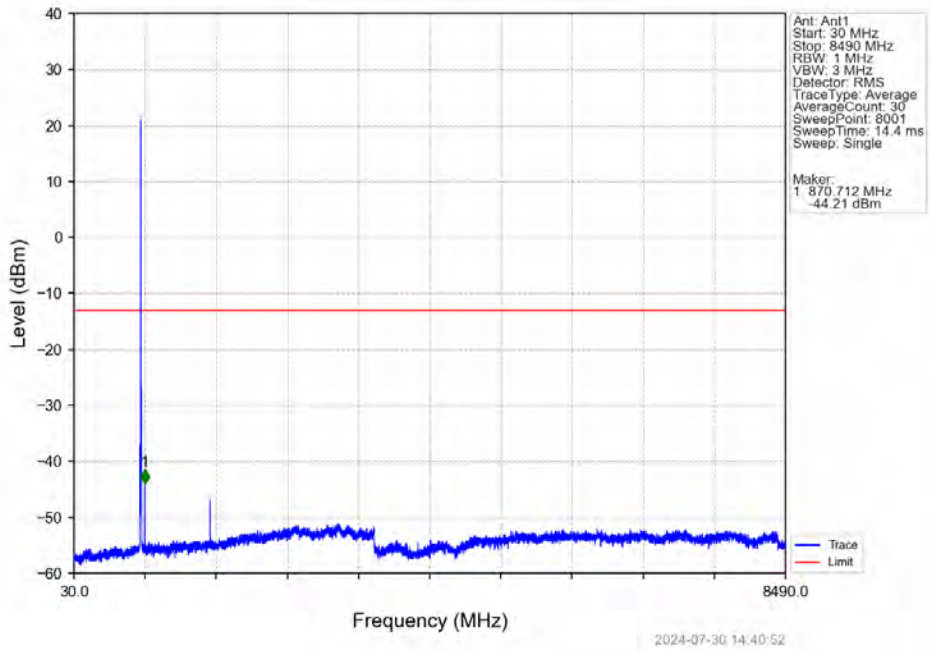
6.2.3 B5_5MHz

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

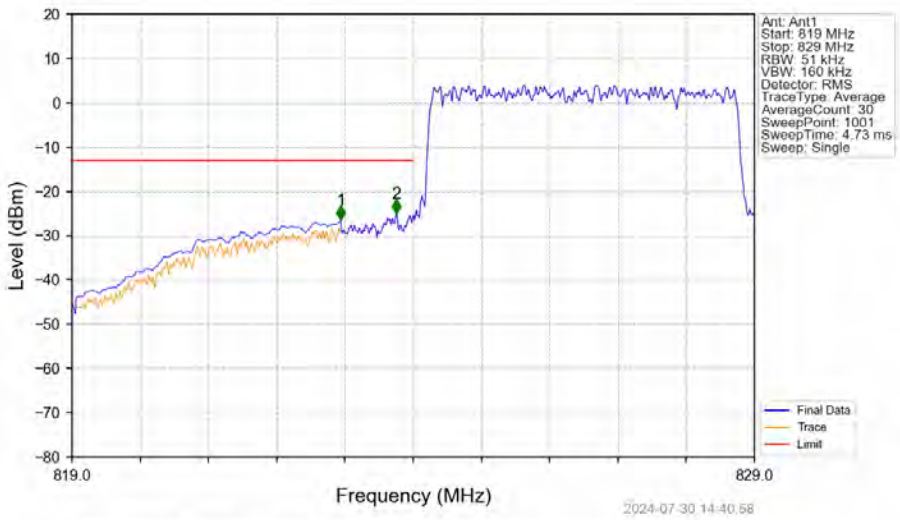


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	820.025	-43.97	-13	Pass
823	824	0.003	/	2	823.999	-31.78	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

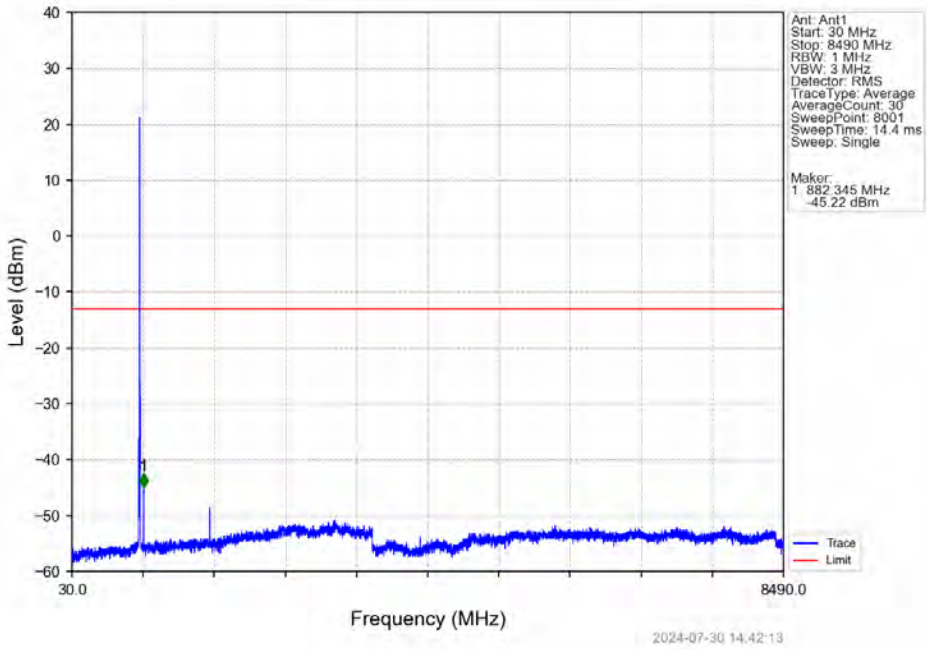


Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

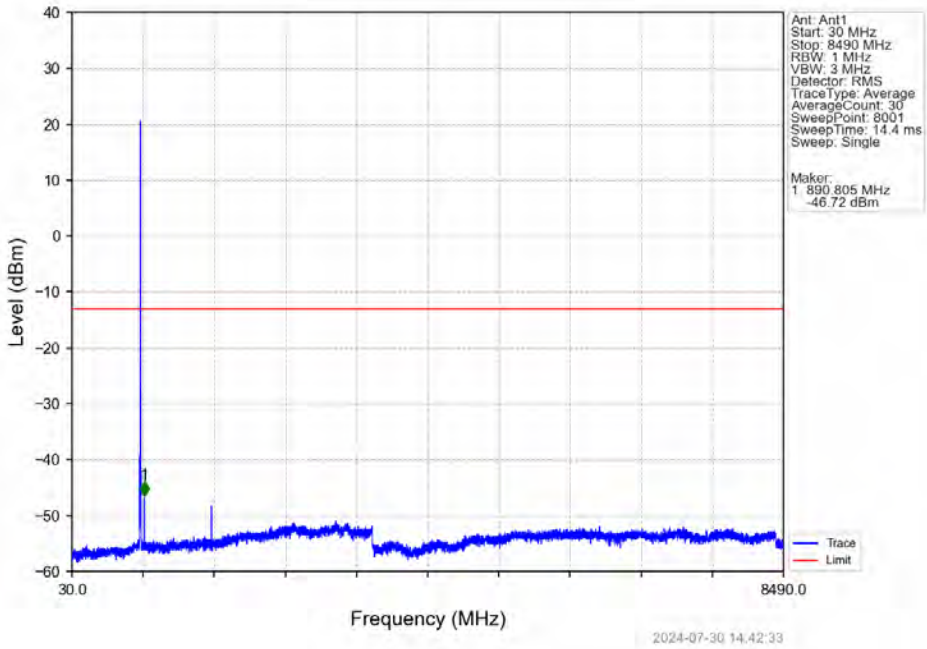


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.940	-26.42	-13	Pass
823	824	0.051	/	2	823.750	-25.02	-13	Pass
824	829	0.051	/	/	/	/	/	/

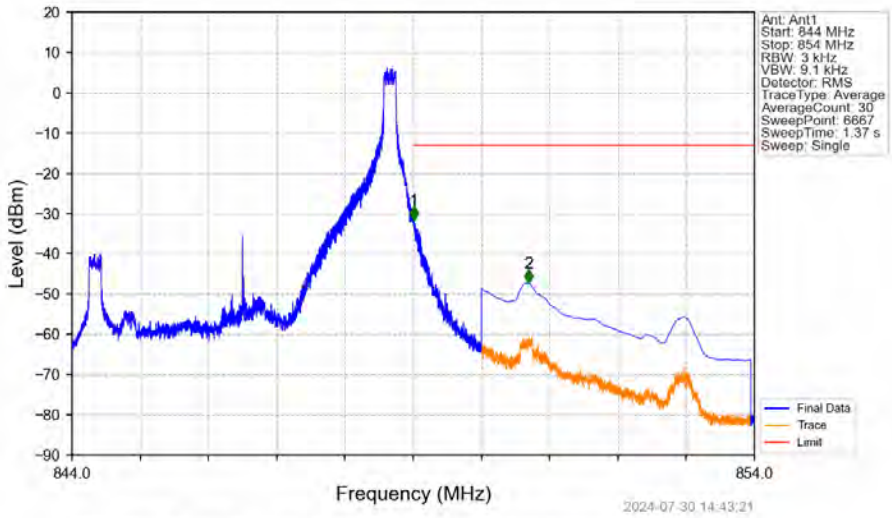
Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV

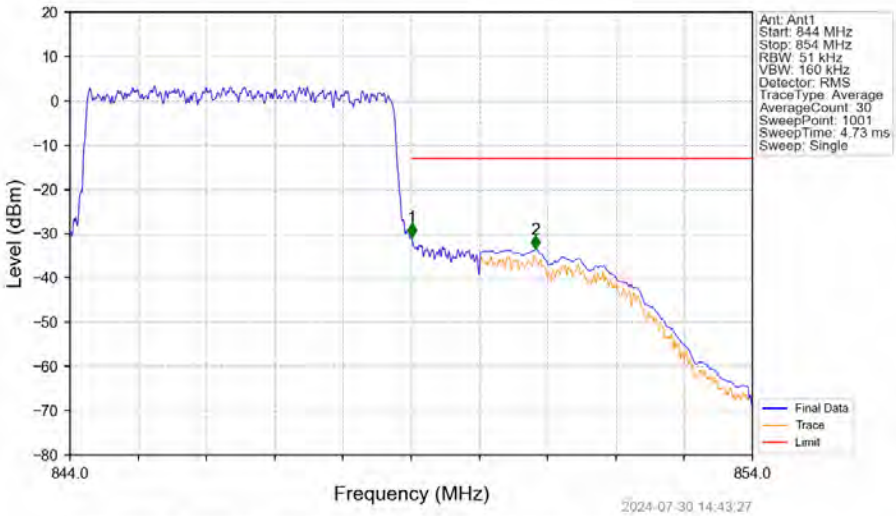


Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



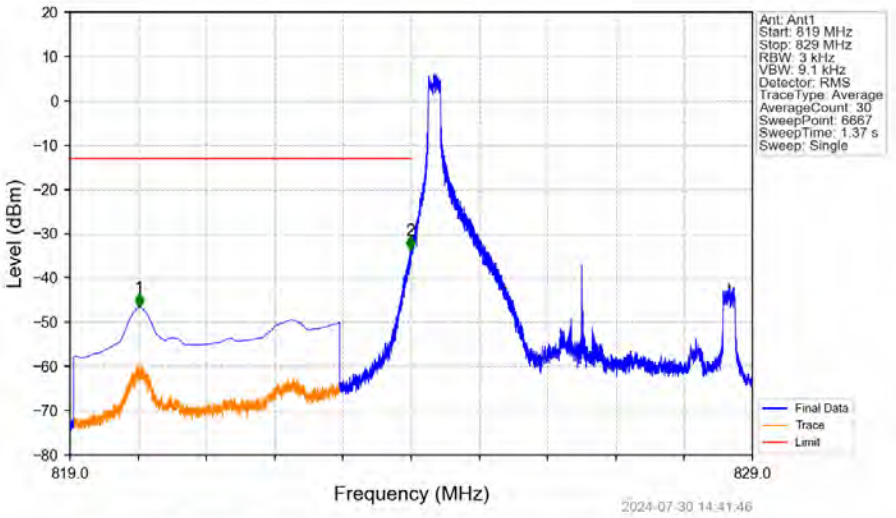
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.012	-31.69	-13	Pass
850	854	0.1	CHP	2	850.695	-47.18	-13	Pass

Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



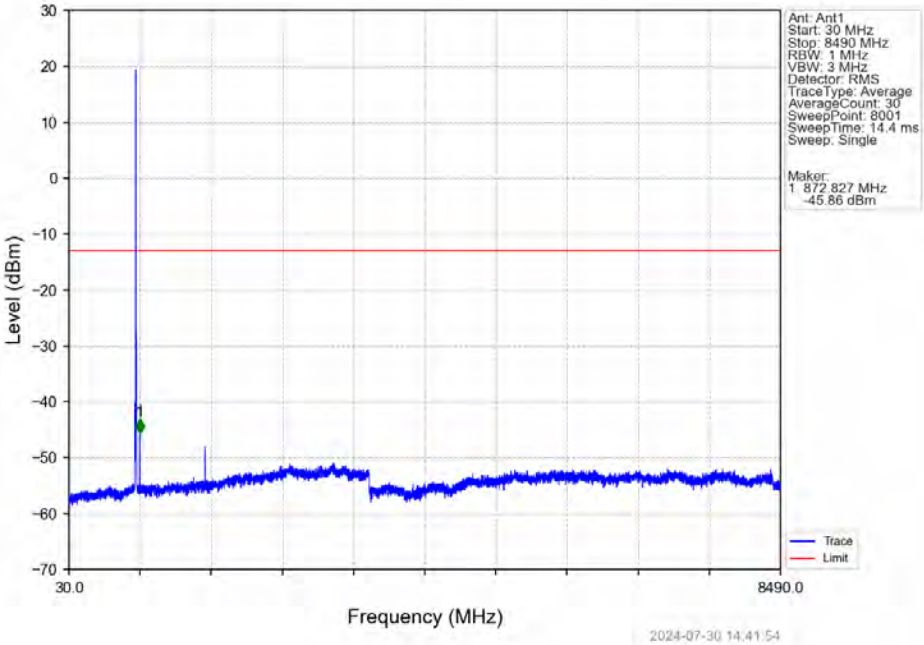
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.010	-30.78	-13	Pass
850	854	0.1	CHP	2	850.820	-33.53	-13	Pass

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

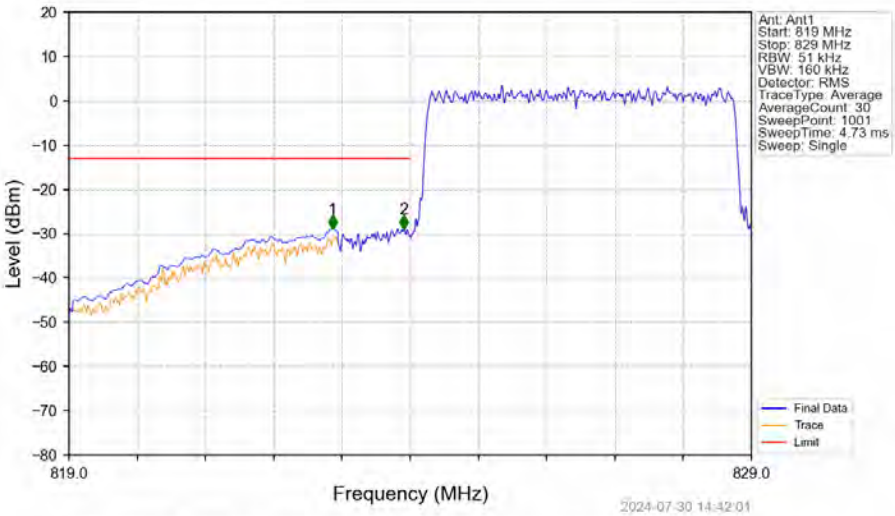


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	820.011	-46.55	-13	Pass
823	824	0.003	/	2	823.988	-33.76	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

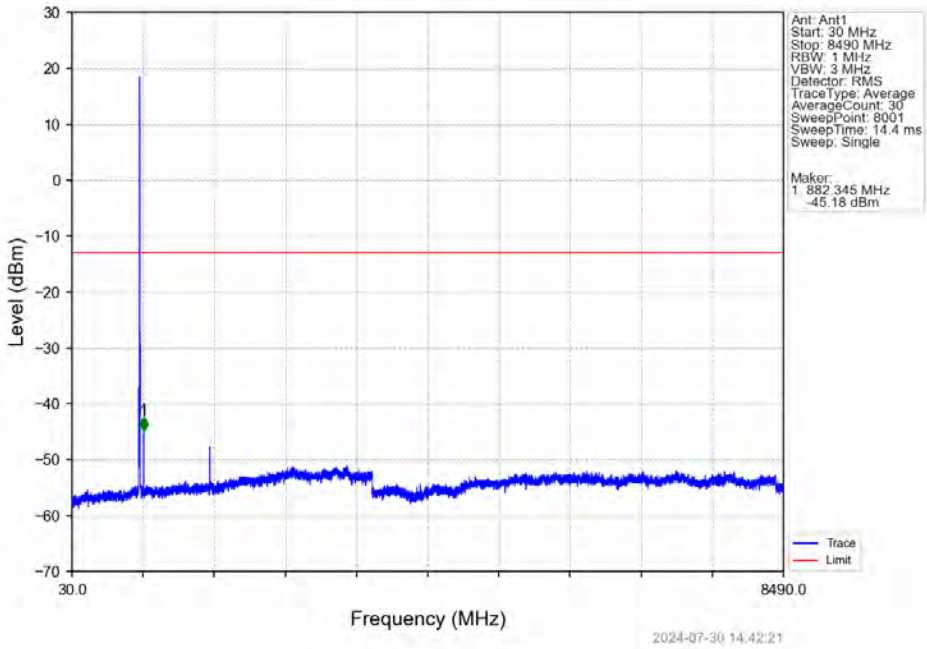


Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

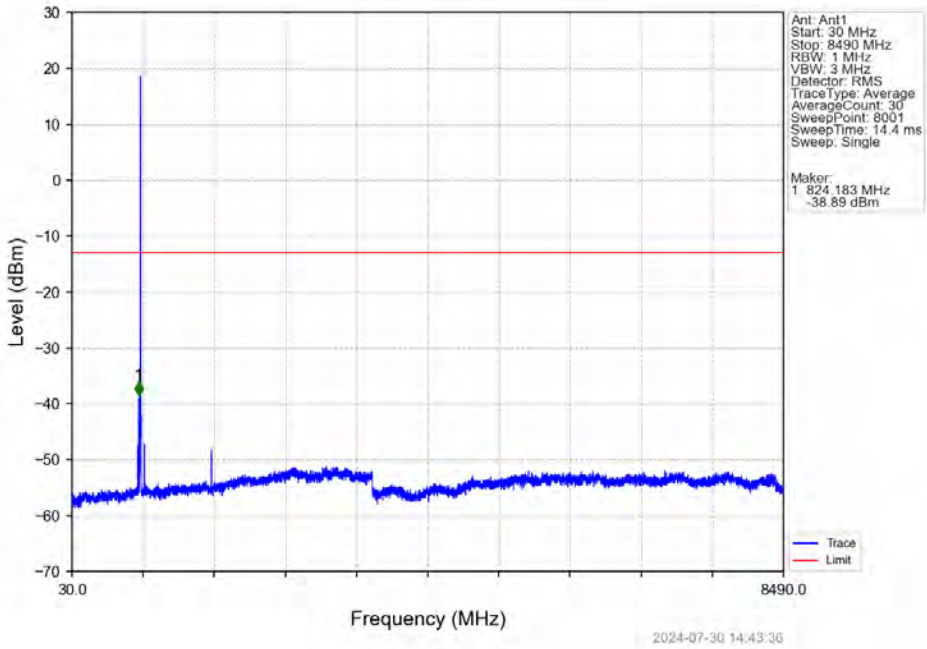


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.860	-28.98	-13	Pass
823	824	0.051	/	2	823.910	-28.87	-13	Pass
824	829	0.051	/	/	/	/	/	/

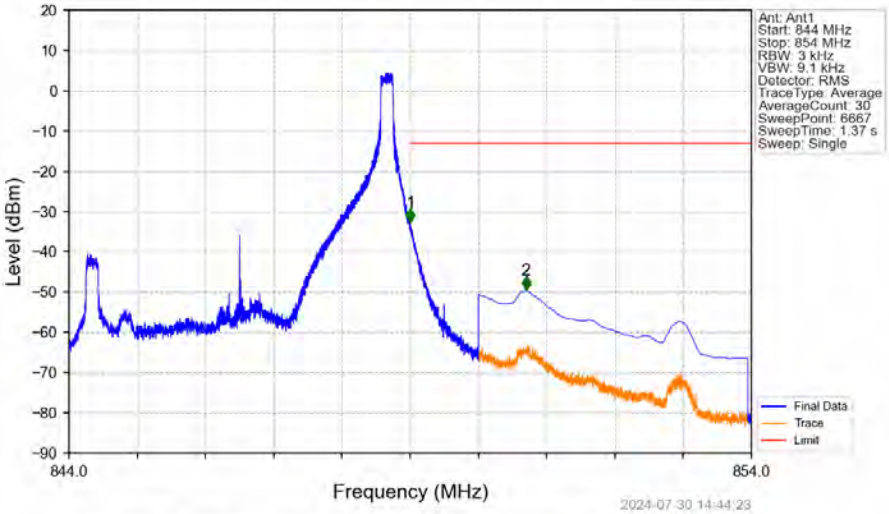
Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV

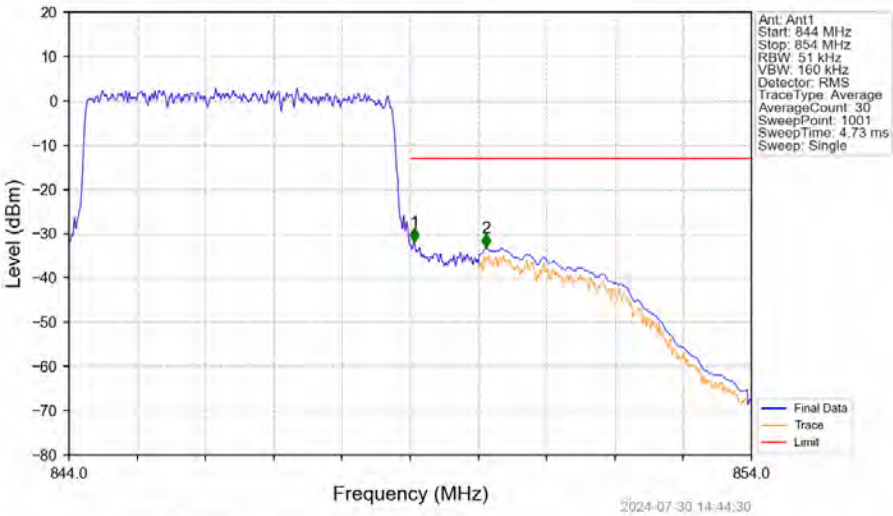


Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV



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	849.001	-32.64	-13	Pass
850	854	0.1	CHP	2	850.697	-49.52	-13	Pass

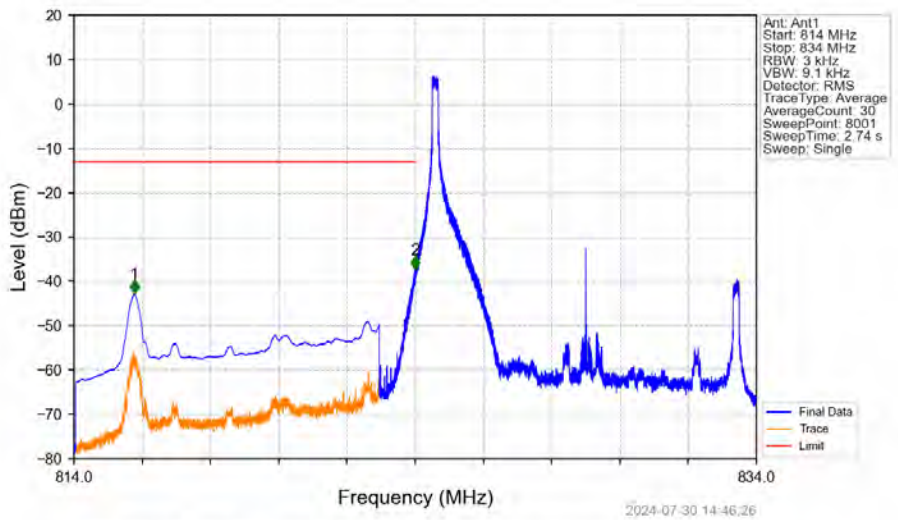
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.060	-31.84	-13	Pass
850	854	0.1	CHP	2	850.110	-33.20	-13	Pass

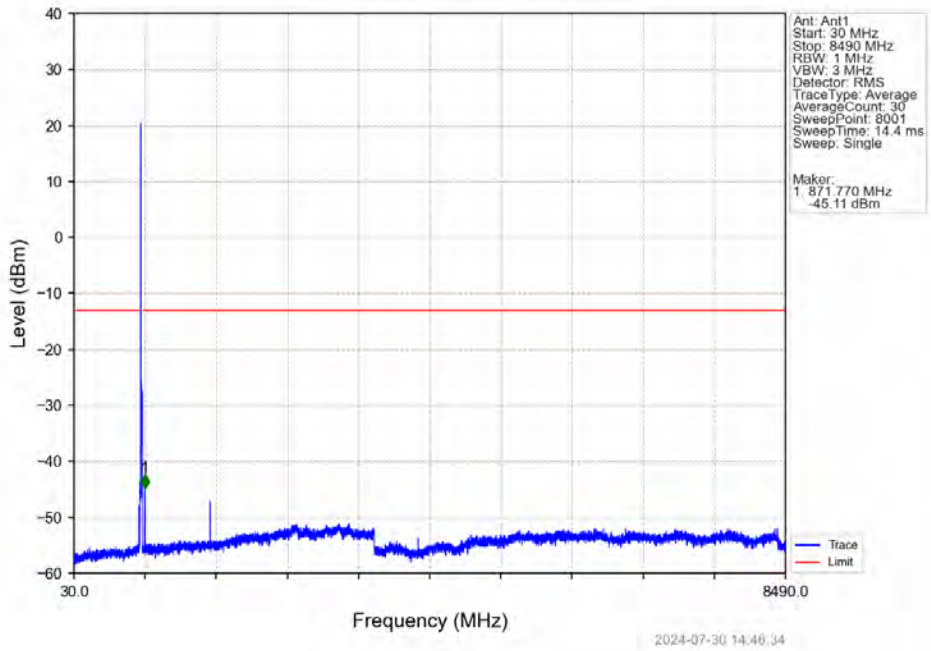
6.2.4 B5_10MHz

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

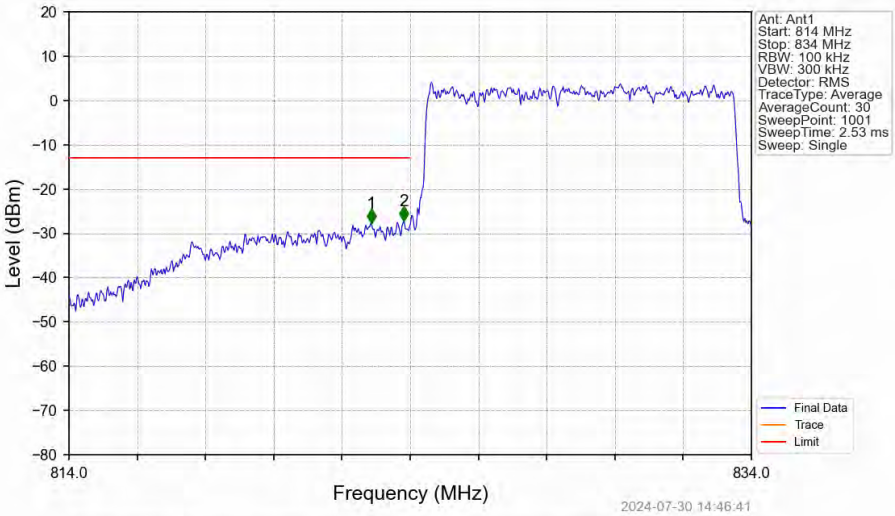


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	815.773	-42.82	-13	Pass
823	824	0.003	/	2	823.997	-37.40	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

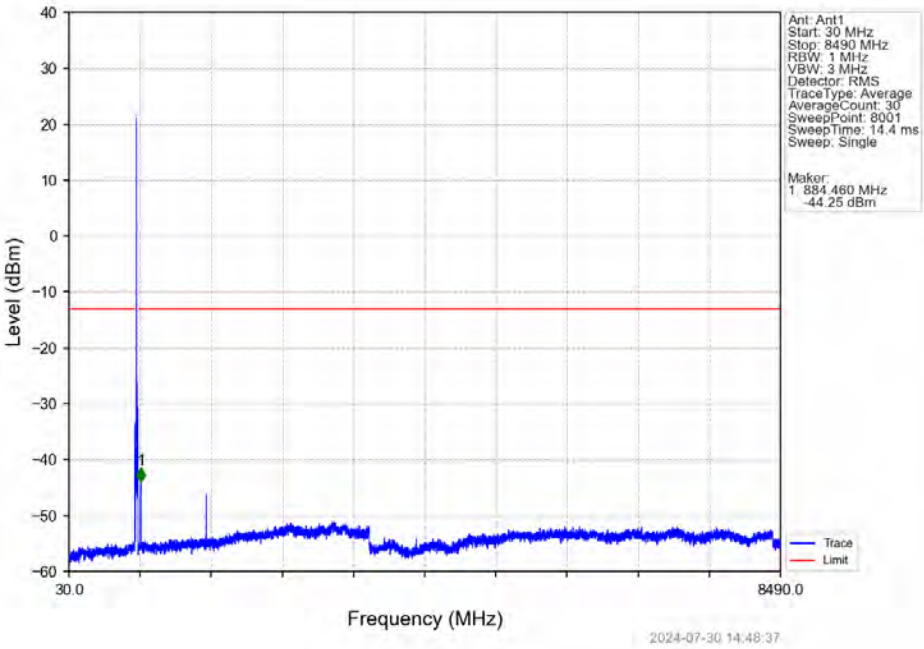


Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV

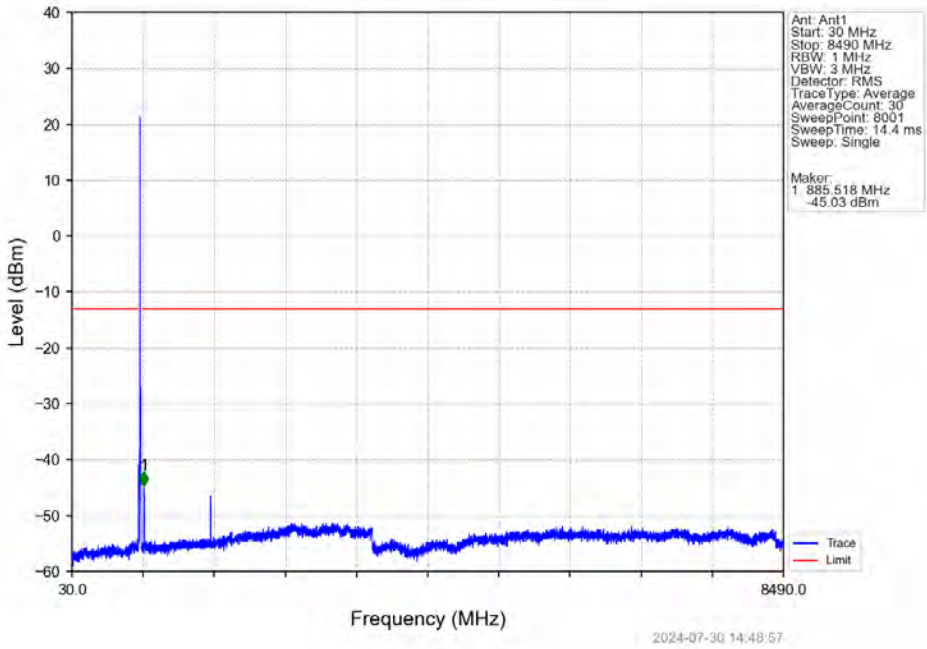


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.860	-27.70	-13	Pass
823	824	0.1	/	2	823.820	-27.08	-13	Pass
824	834	0.1	/	/	/	/	/	/

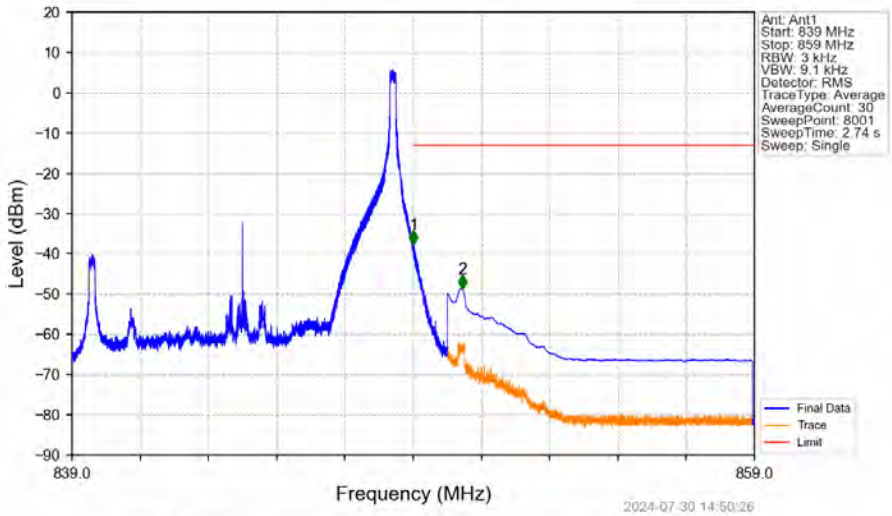
Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV

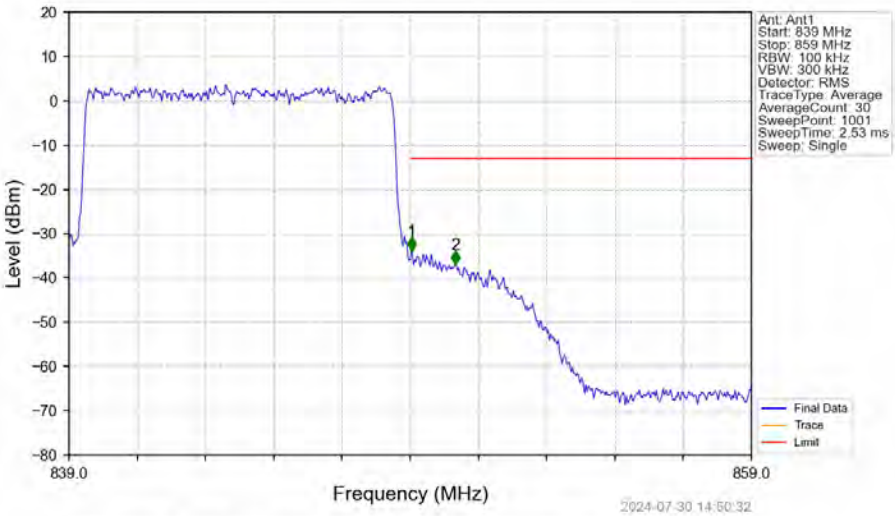


Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV



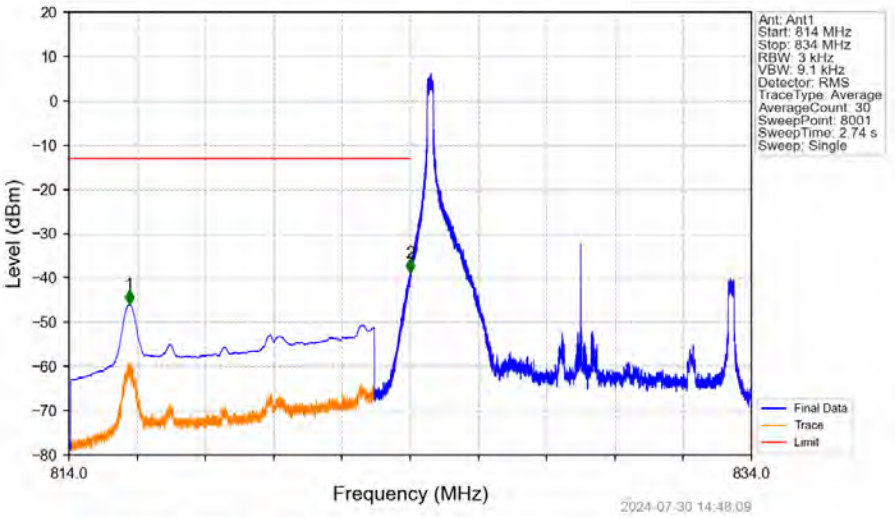
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.010	-37.72	-13	Pass
850	859	0.1	CHP	2	850.445	-48.59	-13	Pass

Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



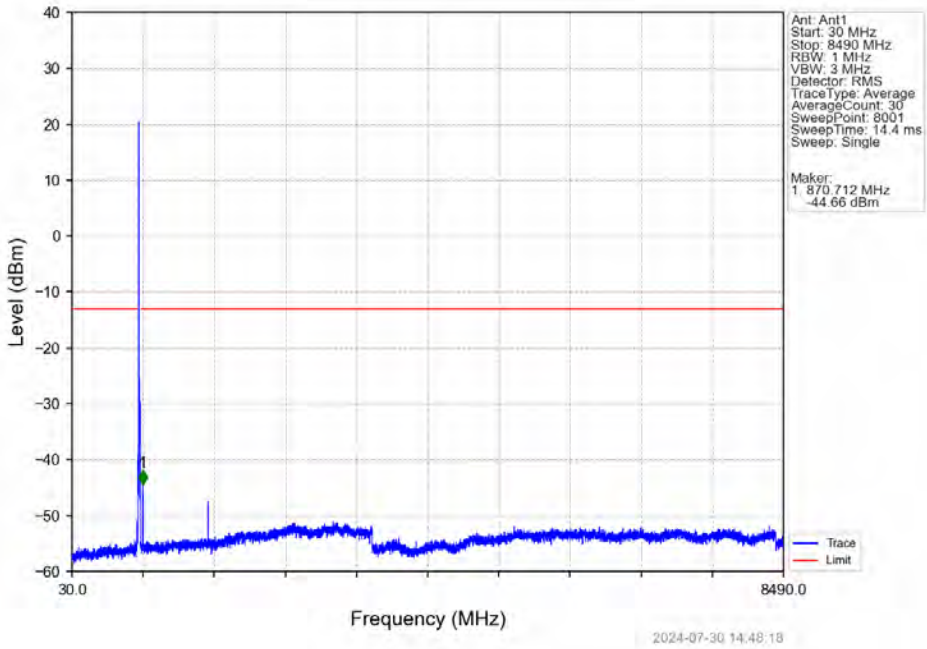
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	850	0.1	/	1	849.040	-33.82	-13	Pass
850	859	0.1	/	2	850.320	-36.89	-13	Pass

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

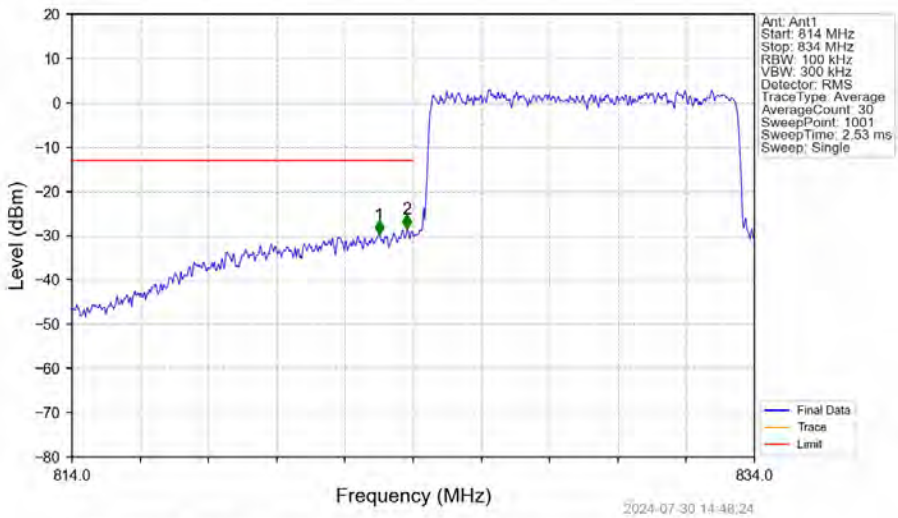


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	815.763	-45.91	-13	Pass
823	824	0.003	/	2	823.997	-38.77	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

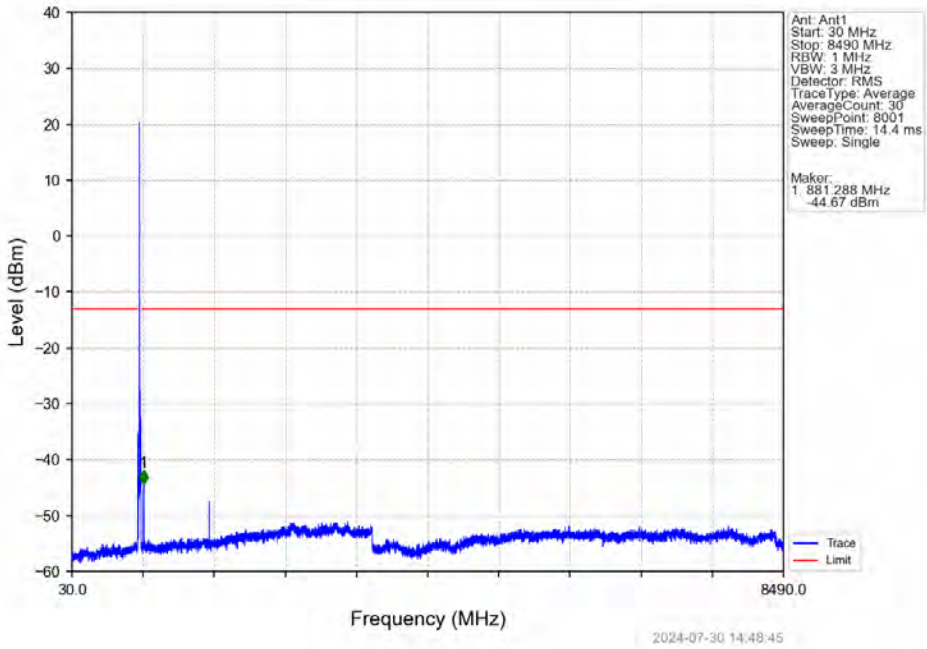


Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV

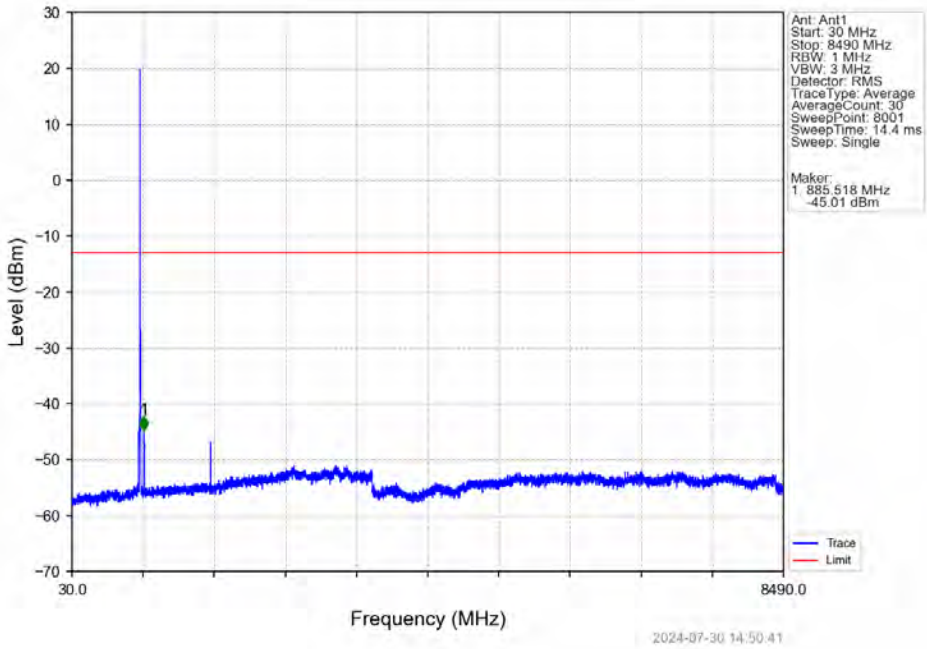


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	823.000	-29.64	-13	Pass
823	824	0.1	/	2	823.820	-28.32	-13	Pass
824	834	0.1	/	/	/	/	/	/

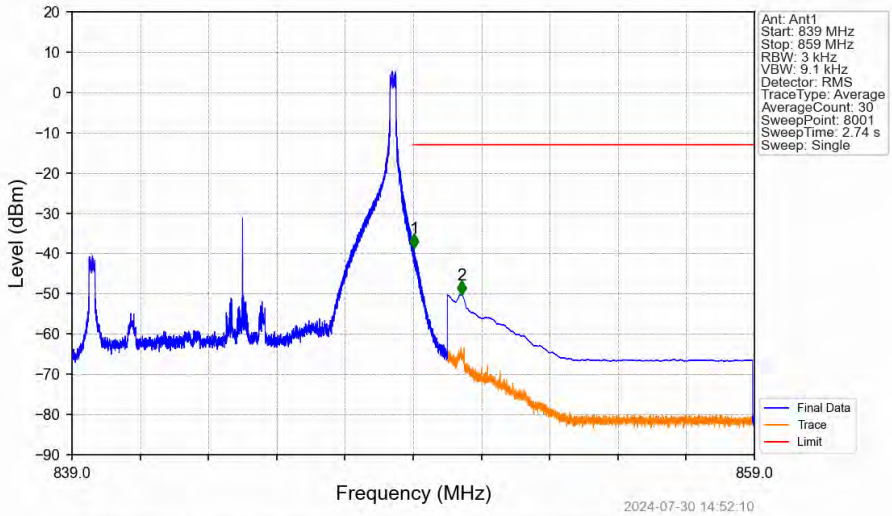
Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV

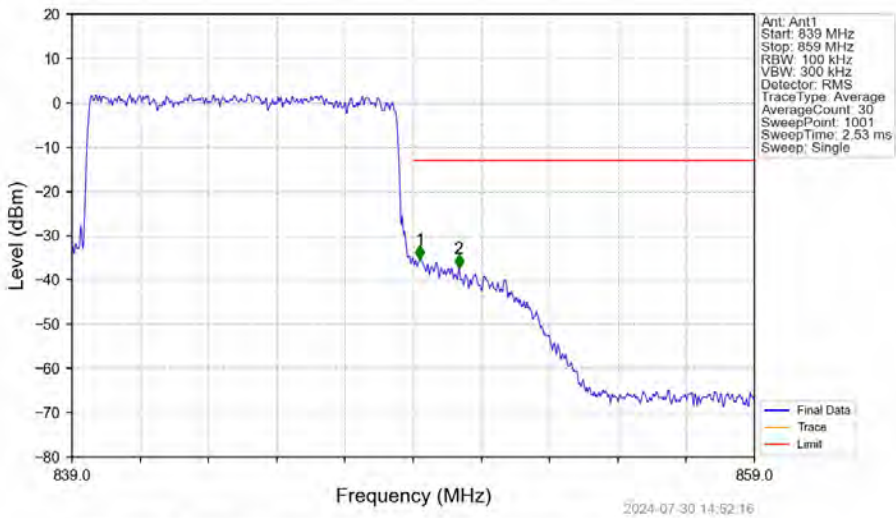


Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.028	-38.72	-13	Pass
850	859	0.1	CHP	2	850.418	-50.28	-13	Pass

Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	850	0.1	/	1	849.200	-35.37	-13	Pass
850	859	0.1	/	2	850.340	-37.34	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

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	0.1766	0.0292	ppm	1M12G7D	22H	22.47
5	1.4	824.7	848.3	0.1426	0.0126	ppm	1M12W7D	22H	21.54
5	3	825.5	847.5	0.1841	0.0147	ppm	2M74G7D	22H	22.65
5	3	825.5	847.5	0.1469	0.0129	ppm	2M73W7D	22H	21.67
5	5	826.5	846.5	0.1766	0.0134	ppm	4M55G7D	22H	22.47
5	5	826.5	846.5	0.1400	0.0137	ppm	4M57W7D	22H	21.46
5	10	829	844	0.1824	0.0136	ppm	9M07G7D	22H	22.61
5	10	829	844	0.1524	0.0105	ppm	9M07W7D	22H	21.83

7.1.2 Form731_ERP

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	0.0920	0.0292	ppm	1M12G7D	22H	19.64
5	1.4	824.7	848.3	0.0743	0.0126	ppm	1M12W7D	22H	18.71
5	3	825.5	847.5	0.0959	0.0147	ppm	2M74G7D	22H	19.82
5	3	825.5	847.5	0.0766	0.0129	ppm	2M73W7D	22H	18.84
5	5	826.5	846.5	0.0920	0.0134	ppm	4M55G7D	22H	19.64
5	5	826.5	846.5	0.0729	0.0137	ppm	4M57W7D	22H	18.63
5	10	829	844	0.0951	0.0136	ppm	9M07G7D	22H	19.78
5	10	829	844	0.0794	0.0105	ppm	9M07W7D	22H	19.00