

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	22.48	-0.77	19.56	<=38.45	Pass
			2	22.70	-0.77	19.78	<=38.45	Pass
			5	22.51	-0.77	19.59	<=38.45	Pass
		3	0	22.59	-0.77	19.67	<=38.45	Pass
			2	22.60	-0.77	19.68	<=38.45	Pass
			3	22.62	-0.77	19.70	<=38.45	Pass
		6	0	21.64	-0.77	18.72	<=38.45	Pass
	836.5	1	0	21.43	-0.77	18.51	<=38.45	Pass
			2	21.64	-0.77	18.72	<=38.45	Pass
			5	21.37	-0.77	18.45	<=38.45	Pass
		3	0	21.47	-0.77	18.55	<=38.45	Pass
			2	21.44	-0.77	18.52	<=38.45	Pass
			3	21.47	-0.77	18.55	<=38.45	Pass
		6	0	20.50	-0.77	17.58	<=38.45	Pass
	848.3	1	0	20.56	-0.77	17.64	<=38.45	Pass
			2	20.83	-0.77	17.91	<=38.45	Pass
			5	20.50	-0.77	17.58	<=38.45	Pass
		3	0	20.61	-0.77	17.69	<=38.45	Pass
			2	20.60	-0.77	17.68	<=38.45	Pass
			3	20.58	-0.77	17.66	<=38.45	Pass
		6	0	19.68	-0.77	16.76	<=38.45	Pass
16QAM	824.7	1	0	21.56	-0.77	18.64	<=38.45	Pass
			2	21.36	-0.77	18.44	<=38.45	Pass
			5	21.06	-0.77	18.14	<=38.45	Pass
		3	0	21.25	-0.77	18.33	<=38.45	Pass
			2	21.18	-0.77	18.26	<=38.45	Pass
			3	21.20	-0.77	18.28	<=38.45	Pass
		6	0	20.18	-0.77	17.26	<=38.45	Pass
	836.5	1	0	20.80	-0.77	17.88	<=38.45	Pass
			2	20.96	-0.77	18.04	<=38.45	Pass
			5	20.71	-0.77	17.79	<=38.45	Pass
		3	0	20.58	-0.77	17.66	<=38.45	Pass
			2	20.52	-0.77	17.60	<=38.45	Pass
			3	20.58	-0.77	17.66	<=38.45	Pass
		6	0	19.50	-0.77	16.58	<=38.45	Pass
	848.3	1	0	19.55	-0.77	16.63	<=38.45	Pass
			2	19.70	-0.77	16.78	<=38.45	Pass
			5	19.43	-0.77	16.51	<=38.45	Pass
		3	0	19.56	-0.77	16.64	<=38.45	Pass
			2	19.50	-0.77	16.58	<=38.45	Pass
			3	19.52	-0.77	16.60	<=38.45	Pass
		6	0	18.62	-0.77	15.70	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B5_3MHz_ERP

Band: 5 / Bandwidth: 3MHz / NTNV								
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	825.5	1	0	22.22	-0.77	19.30	<=38.45	Pass
			7	22.05	-0.77	19.13	<=38.45	Pass
			14	22.13	-0.77	19.21	<=38.45	Pass
		8	0	21.13	-0.77	18.21	<=38.45	Pass
			4	21.14	-0.77	18.22	<=38.45	Pass
			7	21.04	-0.77	18.12	<=38.45	Pass
		15	0	21.03	-0.77	18.11	<=38.45	Pass
	836.5	1	0	21.56	-0.77	18.64	<=38.45	Pass
			7	21.34	-0.77	18.42	<=38.45	Pass
			14	21.44	-0.77	18.52	<=38.45	Pass
		8	0	20.52	-0.77	17.60	<=38.45	Pass
			4	20.53	-0.77	17.61	<=38.45	Pass
			7	20.38	-0.77	17.46	<=38.45	Pass
		15	0	20.46	-0.77	17.54	<=38.45	Pass
	847.5	1	0	20.73	-0.77	17.81	<=38.45	Pass
			7	20.45	-0.77	17.53	<=38.45	Pass
			14	20.51	-0.77	17.59	<=38.45	Pass
		8	0	19.78	-0.77	16.86	<=38.45	Pass
			4	19.77	-0.77	16.85	<=38.45	Pass
			7	19.64	-0.77	16.72	<=38.45	Pass
		15	0	19.68	-0.77	16.76	<=38.45	Pass
16QAM	825.5	1	0	21.49	-0.77	18.57	<=38.45	Pass
			7	21.33	-0.77	18.41	<=38.45	Pass
			14	21.44	-0.77	18.52	<=38.45	Pass
		8	0	20.12	-0.77	17.20	<=38.45	Pass
			4	20.17	-0.77	17.25	<=38.45	Pass
			7	20.05	-0.77	17.13	<=38.45	Pass
		15	0	20.06	-0.77	17.14	<=38.45	Pass
	836.5	1	0	20.52	-0.77	17.60	<=38.45	Pass
			7	20.35	-0.77	17.43	<=38.45	Pass
			14	20.37	-0.77	17.45	<=38.45	Pass
		8	0	19.47	-0.77	16.55	<=38.45	Pass
			4	19.43	-0.77	16.51	<=38.45	Pass
			7	19.31	-0.77	16.39	<=38.45	Pass
		15	0	19.47	-0.77	16.55	<=38.45	Pass
	847.5	1	0	19.83	-0.77	16.91	<=38.45	Pass
			7	19.60	-0.77	16.68	<=38.45	Pass
			14	19.56	-0.77	16.64	<=38.45	Pass
		8	0	18.73	-0.77	15.81	<=38.45	Pass
			4	18.67	-0.77	15.75	<=38.45	Pass
			7	18.56	-0.77	15.64	<=38.45	Pass
		15	0	18.61	-0.77	15.69	<=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	22.03	-0.77	19.11	<=38.45	Pass
			13	22.08	-0.77	19.16	<=38.45	Pass
			24	21.85	-0.77	18.93	<=38.45	Pass
		12	0	21.04	-0.77	18.12	<=38.45	Pass
			6	21.05	-0.77	18.13	<=38.45	Pass
			13	20.97	-0.77	18.05	<=38.45	Pass

16QAM	836.5	25	0	21.02	-0.77	18.10	<=38.45	Pass
			0	21.48	-0.77	18.56	<=38.45	Pass
			13	21.46	-0.77	18.54	<=38.45	Pass
			24	21.22	-0.77	18.30	<=38.45	Pass
		12	0	20.55	-0.77	17.63	<=38.45	Pass
			6	20.51	-0.77	17.59	<=38.45	Pass
			13	20.29	-0.77	17.37	<=38.45	Pass
		25	0	20.52	-0.77	17.60	<=38.45	Pass
	846.5	1	0	20.81	-0.77	17.89	<=38.45	Pass
			13	20.73	-0.77	17.81	<=38.45	Pass
			24	20.46	-0.77	17.54	<=38.45	Pass
		12	0	19.82	-0.77	16.90	<=38.45	Pass
			6	19.80	-0.77	16.88	<=38.45	Pass
			13	19.55	-0.77	16.63	<=38.45	Pass
		25	0	19.77	-0.77	16.85	<=38.45	Pass
	826.5	1	0	21.12	-0.77	18.20	<=38.45	Pass
			13	21.16	-0.77	18.24	<=38.45	Pass
			24	20.90	-0.77	17.98	<=38.45	Pass
		12	0	20.03	-0.77	17.11	<=38.45	Pass
			6	20.06	-0.77	17.14	<=38.45	Pass
			13	19.96	-0.77	17.04	<=38.45	Pass
		25	0	19.97	-0.77	17.05	<=38.45	Pass
	836.5	1	0	20.46	-0.77	17.54	<=38.45	Pass
			13	20.44	-0.77	17.52	<=38.45	Pass
			24	20.18	-0.77	17.26	<=38.45	Pass
		12	0	19.62	-0.77	16.70	<=38.45	Pass
			6	19.54	-0.77	16.62	<=38.45	Pass
			13	19.36	-0.77	16.44	<=38.45	Pass
		25	0	19.54	-0.77	16.62	<=38.45	Pass
	846.5	1	0	20.18	-0.77	17.26	<=38.45	Pass
			13	20.20	-0.77	17.28	<=38.45	Pass
			24	19.88	-0.77	16.96	<=38.45	Pass
		12	0	18.82	-0.77	15.90	<=38.45	Pass
			6	18.83	-0.77	15.91	<=38.45	Pass
			13	18.57	-0.77	15.65	<=38.45	Pass
		25	0	18.66	-0.77	15.74	<=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	22.15	-0.77	19.23	<=38.45	Pass
			25	22.03	-0.77	19.11	<=38.45	Pass
			49	21.67	-0.77	18.75	<=38.45	Pass
		25	0	21.03	-0.77	18.11	<=38.45	Pass
			13	20.92	-0.77	18.00	<=38.45	Pass
			25	20.82	-0.77	17.90	<=38.45	Pass
		50	0	20.92	-0.77	18.00	<=38.45	Pass
	836.5	1	0	21.71	-0.77	18.79	<=38.45	Pass
			25	21.52	-0.77	18.60	<=38.45	Pass
			49	21.19	-0.77	18.27	<=38.45	Pass
		25	0	20.70	-0.77	17.78	<=38.45	Pass
			13	20.49	-0.77	17.57	<=38.45	Pass
			25	20.31	-0.77	17.39	<=38.45	Pass
		50	0	20.49	-0.77	17.57	<=38.45	Pass

16QAM	844	1	0	21.16	-0.77	18.24	<=38.45	Pass
			25	20.95	-0.77	18.03	<=38.45	Pass
			49	20.53	-0.77	17.61	<=38.45	Pass
		25	0	20.11	-0.77	17.19	<=38.45	Pass
			13	19.94	-0.77	17.02	<=38.45	Pass
			25	19.66	-0.77	16.74	<=38.45	Pass
		50	0	19.88	-0.77	16.96	<=38.45	Pass
	829	1	0	21.44	-0.77	18.52	<=38.45	Pass
			25	21.29	-0.77	18.37	<=38.45	Pass
			49	21.03	-0.77	18.11	<=38.45	Pass
		25	0	20.02	-0.77	17.10	<=38.45	Pass
			13	19.87	-0.77	16.95	<=38.45	Pass
			25	19.81	-0.77	16.89	<=38.45	Pass
		50	0	19.89	-0.77	16.97	<=38.45	Pass
	836.5	1	0	20.68	-0.77	17.76	<=38.45	Pass
			25	20.44	-0.77	17.52	<=38.45	Pass
			49	20.11	-0.77	17.19	<=38.45	Pass
		25	0	19.70	-0.77	16.78	<=38.45	Pass
			13	19.53	-0.77	16.61	<=38.45	Pass
			25	19.31	-0.77	16.39	<=38.45	Pass
		50	0	19.46	-0.77	16.54	<=38.45	Pass
	844	1	0	20.24	-0.77	17.32	<=38.45	Pass
			25	20.00	-0.77	17.08	<=38.45	Pass
			49	19.60	-0.77	16.68	<=38.45	Pass
		25	0	19.09	-0.77	16.17	<=38.45	Pass
			13	18.96	-0.77	16.04	<=38.45	Pass
			25	18.66	-0.77	15.74	<=38.45	Pass
		50	0	18.84	-0.77	15.92	<=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	-14.019	-0.0170	-2.5 to 2.5	Pass
					3.85	-7.267	-0.0088	-2.5 to 2.5	Pass
					4.43	-8.054	-0.0098	-2.5 to 2.5	Pass
				-30	3.85	-10.529	-0.0128	-2.5 to 2.5	Pass
				-20	3.85	-5.565	-0.0067	-2.5 to 2.5	Pass
				-10	3.85	-7.596	-0.0092	-2.5 to 2.5	Pass
				0	3.85	-6.137	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-8.783	-0.0106	-2.5 to 2.5	Pass
				30	3.85	-9.885	-0.0120	-2.5 to 2.5	Pass
				40	3.85	-4.721	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-8.154	-0.0099	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-7.911	-0.0095	-2.5 to 2.5	Pass
					3.85	-8.998	-0.0108	-2.5 to 2.5	Pass
					4.43	-7.253	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	14.534	0.0174	-2.5 to 2.5	Pass
				-20	3.85	-7.110	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	-5.522	-0.0066	-2.5 to 2.5	Pass

				0	3.85	-7.982	-0.0095	-2.5 to 2.5	Pass
				10	3.85	-6.695	-0.0080	-2.5 to 2.5	Pass
				30	3.85	-6.351	-0.0076	-2.5 to 2.5	Pass
				40	3.85	-6.237	-0.0075	-2.5 to 2.5	Pass
				50	3.85	-5.450	-0.0065	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-5.436	-0.0064	-2.5 to 2.5	Pass
					3.85	-7.653	-0.0090	-2.5 to 2.5	Pass
					4.43	-7.181	-0.0085	-2.5 to 2.5	Pass
					4.43	-7.181	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-5.765	-0.0068	-2.5 to 2.5	Pass
				-20	3.85	-4.349	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-5.736	-0.0068	-2.5 to 2.5	Pass
				0	3.85	-9.112	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-5.550	-0.0065	-2.5 to 2.5	Pass
				30	3.85	-4.020	-0.0047	-2.5 to 2.5	Pass
				40	3.85	3.991	0.0047	-2.5 to 2.5	Pass
				50	3.85	-5.679	-0.0067	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	-6.638	-0.0080	-2.5 to 2.5	Pass
					3.85	-7.353	-0.0089	-2.5 to 2.5	Pass
					4.43	-9.384	-0.0114	-2.5 to 2.5	Pass
					4.43	-9.384	-0.0114	-2.5 to 2.5	Pass
				-30	3.85	-7.267	-0.0088	-2.5 to 2.5	Pass
				-20	3.85	-3.948	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-12.631	-0.0153	-2.5 to 2.5	Pass
				0	3.85	-6.781	-0.0082	-2.5 to 2.5	Pass
				10	3.85	-9.470	-0.0115	-2.5 to 2.5	Pass
				30	3.85	-4.191	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-16.065	-0.0195	-2.5 to 2.5	Pass
				50	3.85	-6.666	-0.0081	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-3.934	-0.0047	-2.5 to 2.5	Pass
					3.85	-6.566	-0.0078	-2.5 to 2.5	Pass
					4.43	-2.775	-0.0033	-2.5 to 2.5	Pass
					4.43	-2.775	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-6.924	-0.0083	-2.5 to 2.5	Pass
				-20	3.85	-4.220	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-3.376	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-6.423	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-8.039	-0.0096	-2.5 to 2.5	Pass
				30	3.85	-3.505	-0.0042	-2.5 to 2.5	Pass
				40	3.85	-7.796	-0.0093	-2.5 to 2.5	Pass
				50	3.85	-9.413	-0.0113	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-5.794	-0.0068	-2.5 to 2.5	Pass
					3.85	-6.323	-0.0075	-2.5 to 2.5	Pass
					4.43	-6.223	-0.0073	-2.5 to 2.5	Pass
					4.43	-6.223	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-7.696	-0.0091	-2.5 to 2.5	Pass
				-20	3.85	-4.706	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-3.090	-0.0036	-2.5 to 2.5	Pass
				0	3.85	-4.992	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-5.808	-0.0068	-2.5 to 2.5	Pass
				30	3.85	-6.237	-0.0074	-2.5 to 2.5	Pass
				40	3.85	-11.258	-0.0133	-2.5 to 2.5	Pass
				50	3.85	-5.364	-0.0063	-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	-4.449	-0.0054	-2.5 to 2.5	Pass
					3.85	-7.381	-0.0089	-2.5 to 2.5	Pass

16QAM	836.5	15	0		4.43	-10.271	-0.0124	-2.5 to 2.5	Pass
				-30	3.85	-9.413	-0.0114	-2.5 to 2.5	Pass
				-20	3.85	-9.284	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-8.254	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-4.892	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-6.309	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-9.499	-0.0115	-2.5 to 2.5	Pass
				40	3.85	-8.583	-0.0104	-2.5 to 2.5	Pass
				50	3.85	5.164	0.0063	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-2.975	-0.0036	-2.5 to 2.5	Pass
				20	3.85	-7.696	-0.0092	-2.5 to 2.5	Pass
					4.43	-6.008	-0.0072	-2.5 to 2.5	Pass
				-30	3.85	-5.507	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-4.091	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-8.883	-0.0106	-2.5 to 2.5	Pass
				0	3.85	-10.929	-0.0131	-2.5 to 2.5	Pass
				10	3.85	-5.221	-0.0062	-2.5 to 2.5	Pass
				30	3.85	-7.496	-0.0090	-2.5 to 2.5	Pass
	825.5	15	0	40	3.85	4.120	0.0049	-2.5 to 2.5	Pass
				50	3.85	-7.410	-0.0089	-2.5 to 2.5	Pass
				20	3.27	-2.933	-0.0035	-2.5 to 2.5	Pass
				20	3.85	-7.439	-0.0088	-2.5 to 2.5	Pass
					4.43	-6.309	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	-8.039	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-3.991	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-8.497	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-4.077	-0.0048	-2.5 to 2.5	Pass
	836.5	15	0	10	3.85	-9.313	-0.0110	-2.5 to 2.5	Pass
				30	3.85	-5.593	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-3.748	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-0.443	-0.0005	-2.5 to 2.5	Pass
				20	3.27	-7.639	-0.0093	-2.5 to 2.5	Pass
				20	3.85	-7.982	-0.0097	-2.5 to 2.5	Pass
					4.43	-8.297	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-5.322	-0.0064	-2.5 to 2.5	Pass
				-20	3.85	-5.021	-0.0061	-2.5 to 2.5	Pass
	847.5	15	0	-10	3.85	-5.665	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-8.497	-0.0103	-2.5 to 2.5	Pass
				10	3.85	-6.866	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-9.556	-0.0116	-2.5 to 2.5	Pass
				40	3.85	11.272	0.0137	-2.5 to 2.5	Pass
				50	3.85	-7.067	-0.0086	-2.5 to 2.5	Pass
				20	3.27	-10.185	-0.0122	-2.5 to 2.5	Pass
				20	3.85	-2.646	-0.0032	-2.5 to 2.5	Pass
					4.43	0.014	0.0000	-2.5 to 2.5	Pass
	836.5	15	0	-30	3.85	-8.397	-0.0100	-2.5 to 2.5	Pass
				-20	3.85	2.761	0.0033	-2.5 to 2.5	Pass
				-10	3.85	-5.307	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-3.519	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-11.258	-0.0135	-2.5 to 2.5	Pass
				30	3.85	-5.822	-0.0070	-2.5 to 2.5	Pass
				40	3.85	-6.809	-0.0081	-2.5 to 2.5	Pass
				50	3.85	2.432	0.0029	-2.5 to 2.5	Pass
				20	3.27	-4.764	-0.0056	-2.5 to 2.5	Pass
	847.5	15	0	20	3.85	-4.792	-0.0057	-2.5 to 2.5	Pass
					4.43	-3.290	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-5.980	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-12.717	-0.0150	-2.5 to 2.5	Pass
				-10	3.85	2.933	0.0035	-2.5 to 2.5	Pass

			0	3.85	2.074	0.0024	-2.5 to 2.5	Pass
			10	3.85	-4.277	-0.0050	-2.5 to 2.5	Pass
			30	3.85	2.017	0.0024	-2.5 to 2.5	Pass
			40	3.85	-2.203	-0.0026	-2.5 to 2.5	Pass
			50	3.85	-3.147	-0.0037	-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	-5.021	-0.0061	-2.5 to 2.5	Pass
					3.85	-2.789	-0.0034	-2.5 to 2.5	Pass
					4.43	-13.504	-0.0163	-2.5 to 2.5	Pass
				-30	3.85	-7.997	-0.0097	-2.5 to 2.5	Pass
				-20	3.85	-6.108	-0.0074	-2.5 to 2.5	Pass
				-10	3.85	-5.779	-0.0070	-2.5 to 2.5	Pass
				0	3.85	-7.339	-0.0089	-2.5 to 2.5	Pass
				10	3.85	-5.293	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-7.181	-0.0087	-2.5 to 2.5	Pass
				40	3.85	-13.103	-0.0159	-2.5 to 2.5	Pass
				50	3.85	-8.211	-0.0099	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-4.578	-0.0055	-2.5 to 2.5	Pass
					3.85	-7.939	-0.0095	-2.5 to 2.5	Pass
					4.43	-4.635	-0.0055	-2.5 to 2.5	Pass
				-30	3.85	-9.885	-0.0118	-2.5 to 2.5	Pass
				-20	3.85	-1.545	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-5.593	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-8.311	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-12.302	-0.0147	-2.5 to 2.5	Pass
				30	3.85	-6.466	-0.0077	-2.5 to 2.5	Pass
				40	3.85	-1.774	-0.0021	-2.5 to 2.5	Pass
				50	3.85	1.202	0.0014	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-4.492	-0.0053	-2.5 to 2.5	Pass
					3.85	-5.894	-0.0070	-2.5 to 2.5	Pass
					4.43	-6.709	-0.0079	-2.5 to 2.5	Pass
				-30	3.85	-6.223	-0.0074	-2.5 to 2.5	Pass
				-20	3.85	-7.367	-0.0087	-2.5 to 2.5	Pass
				-10	3.85	-6.037	-0.0071	-2.5 to 2.5	Pass
				0	3.85	-6.652	-0.0079	-2.5 to 2.5	Pass
				10	3.85	-3.633	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-5.894	-0.0070	-2.5 to 2.5	Pass
				40	3.85	-8.297	-0.0098	-2.5 to 2.5	Pass
				50	3.85	-5.307	-0.0063	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-7.167	-0.0087	-2.5 to 2.5	Pass
					3.85	-8.097	-0.0098	-2.5 to 2.5	Pass
					4.43	-9.499	-0.0115	-2.5 to 2.5	Pass
				-30	3.85	1.173	0.0014	-2.5 to 2.5	Pass
				-20	3.85	-4.606	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-7.954	-0.0096	-2.5 to 2.5	Pass
				0	3.85	-6.781	-0.0082	-2.5 to 2.5	Pass
				10	3.85	-8.841	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-5.794	-0.0070	-2.5 to 2.5	Pass
				40	3.85	-2.217	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-9.985	-0.0121	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-9.098	-0.0109	-2.5 to 2.5	Pass
					3.85	-1.273	-0.0015	-2.5 to 2.5	Pass

					4.43	-10.614	-0.0127	-2.5 to 2.5	Pass
				-30	3.85	-7.496	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-1.431	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-5.250	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-11.029	-0.0132	-2.5 to 2.5	Pass
				10	3.85	-10.915	-0.0130	-2.5 to 2.5	Pass
				30	3.85	-11.902	-0.0142	-2.5 to 2.5	Pass
				40	3.85	-7.811	-0.0093	-2.5 to 2.5	Pass
				50	3.85	-8.397	-0.0100	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-7.725	-0.0091	-2.5 to 2.5	Pass
					3.85	-5.593	-0.0066	-2.5 to 2.5	Pass
					4.43	-3.376	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	-6.137	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-8.268	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-7.167	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-7.367	-0.0087	-2.5 to 2.5	Pass
				10	3.85	-6.051	-0.0071	-2.5 to 2.5	Pass
				30	3.85	-7.696	-0.0091	-2.5 to 2.5	Pass
				40	3.85	-3.819	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-5.736	-0.0068	-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	-5.708	-0.0069	-2.5 to 2.5	Pass
					3.85	-6.194	-0.0075	-2.5 to 2.5	Pass
					4.43	-2.961	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-8.984	-0.0108	-2.5 to 2.5	Pass
				-20	3.85	-8.512	-0.0103	-2.5 to 2.5	Pass
				-10	3.85	-7.610	-0.0092	-2.5 to 2.5	Pass
				0	3.85	-5.322	-0.0064	-2.5 to 2.5	Pass
				10	3.85	-6.366	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-5.107	-0.0062	-2.5 to 2.5	Pass
				40	3.85	-3.762	-0.0045	-2.5 to 2.5	Pass
	836.5	50	0	50	3.85	-5.050	-0.0061	-2.5 to 2.5	Pass
				20	3.27	-3.476	-0.0042	-2.5 to 2.5	Pass
					3.85	-6.194	-0.0074	-2.5 to 2.5	Pass
					4.43	-6.752	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-6.466	-0.0077	-2.5 to 2.5	Pass
				-20	3.85	-2.775	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-7.496	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-10.400	-0.0124	-2.5 to 2.5	Pass
				10	3.85	-7.410	-0.0089	-2.5 to 2.5	Pass
				30	3.85	-4.349	-0.0052	-2.5 to 2.5	Pass
	844	50	0	40	3.85	-5.736	-0.0069	-2.5 to 2.5	Pass
				50	3.85	-7.424	-0.0089	-2.5 to 2.5	Pass
				20	3.27	-4.721	-0.0056	-2.5 to 2.5	Pass
					3.85	-8.783	-0.0104	-2.5 to 2.5	Pass
					4.43	-5.636	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-7.138	-0.0085	-2.5 to 2.5	Pass
				-20	3.85	-3.333	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-3.748	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-1.202	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-5.565	-0.0066	-2.5 to 2.5	Pass
				30	3.85	-5.736	-0.0068	-2.5 to 2.5	Pass

16QAM	829	50	0	40	3.85	-2.890	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-7.296	-0.0086	-2.5 to 2.5	Pass
				20	3.27	-8.926	-0.0108	-2.5 to 2.5	Pass
					3.85	-6.766	-0.0082	-2.5 to 2.5	Pass
					4.43	-8.841	-0.0107	-2.5 to 2.5	Pass
				-30	3.85	-7.496	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-4.807	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-5.007	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-7.439	-0.0090	-2.5 to 2.5	Pass
				10	3.85	-3.920	-0.0047	-2.5 to 2.5	Pass
	836.5	50	0	30	3.85	-4.578	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-4.034	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-4.792	-0.0058	-2.5 to 2.5	Pass
				20	3.27	-6.623	-0.0079	-2.5 to 2.5	Pass
					3.85	-6.437	-0.0077	-2.5 to 2.5	Pass
					4.43	-5.865	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-8.326	-0.0100	-2.5 to 2.5	Pass
				-20	3.85	-5.465	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	-7.639	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-9.599	-0.0115	-2.5 to 2.5	Pass
	844	50	0	10	3.85	-5.121	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-7.124	-0.0085	-2.5 to 2.5	Pass
				40	3.85	-10.614	-0.0127	-2.5 to 2.5	Pass
				50	3.85	-7.038	-0.0084	-2.5 to 2.5	Pass
				20	3.27	-8.054	-0.0095	-2.5 to 2.5	Pass
					3.85	-5.279	-0.0063	-2.5 to 2.5	Pass
					4.43	-8.397	-0.0099	-2.5 to 2.5	Pass
				-30	3.85	-4.091	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-4.048	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-3.233	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-3.176	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-9.127	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-6.151	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-2.503	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-5.150	-0.0061	-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	
		Size	Offset	Result	Limit
QPSK	836.5	6	0	Refer To Test Graph	
16QAM	836.5	6	0	Refer To Test Graph	

3.1.2 B5_3MHz

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

3.1.3 B5_5MHz

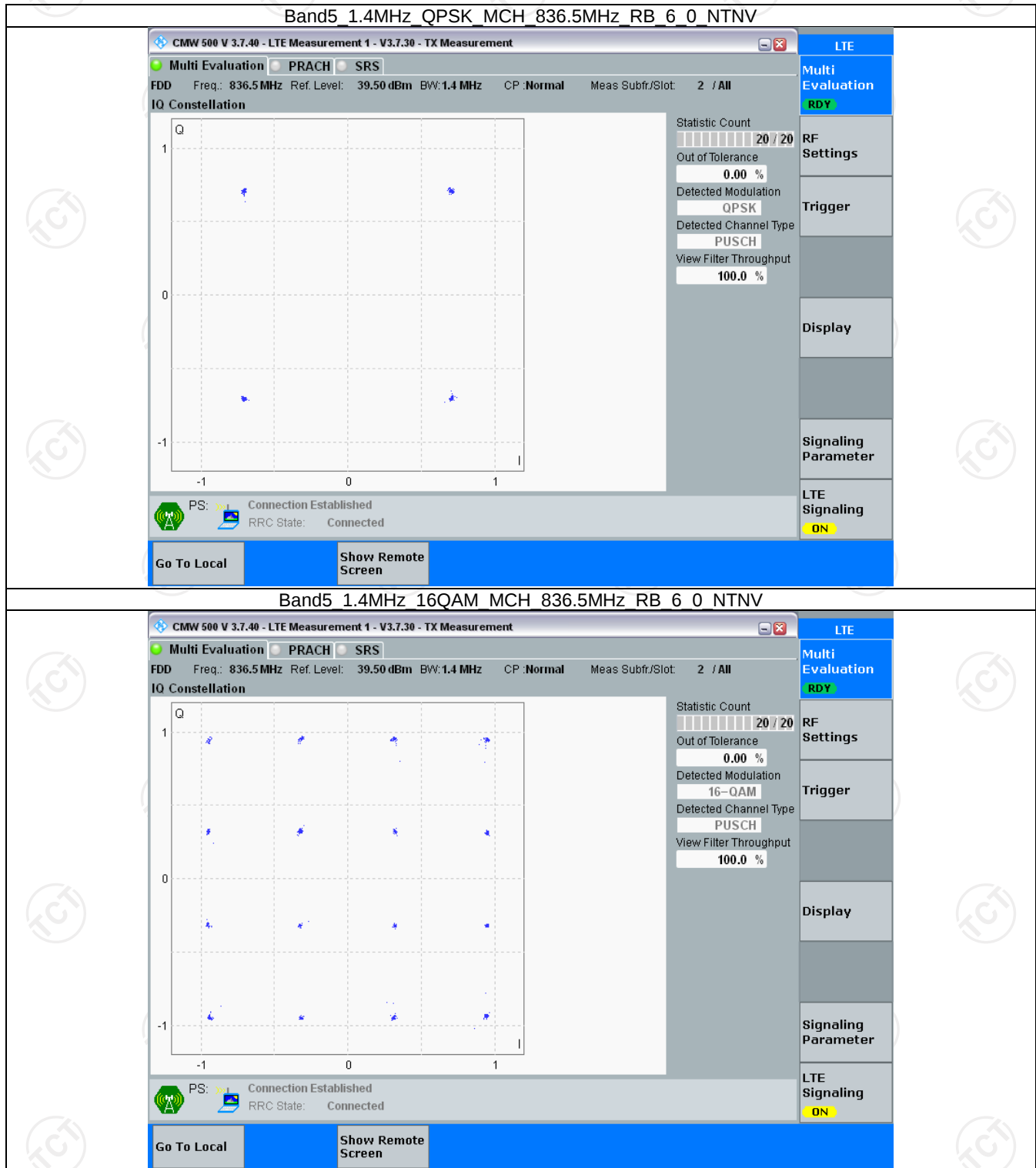
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

3.1.4 B5_10MHz

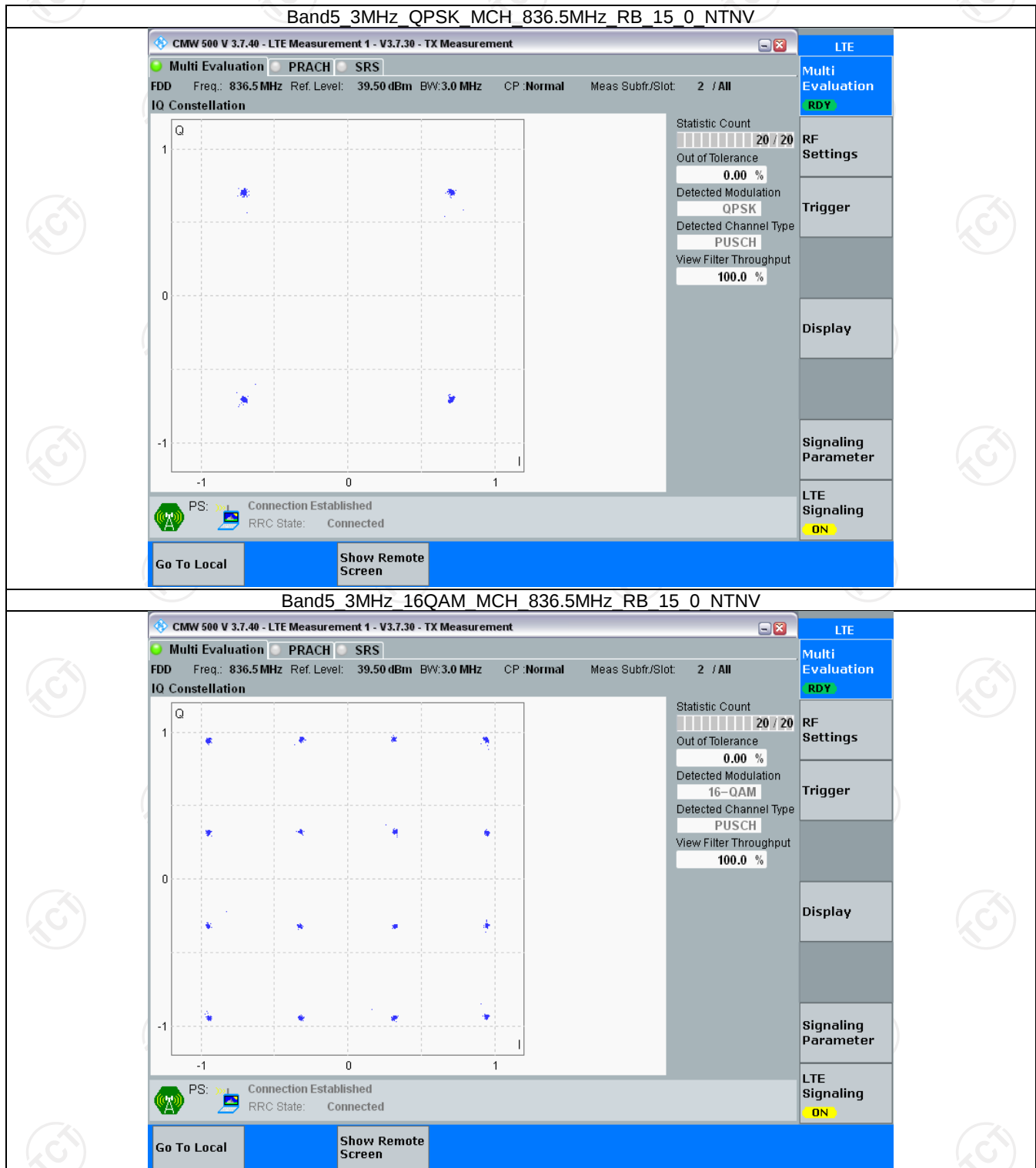
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

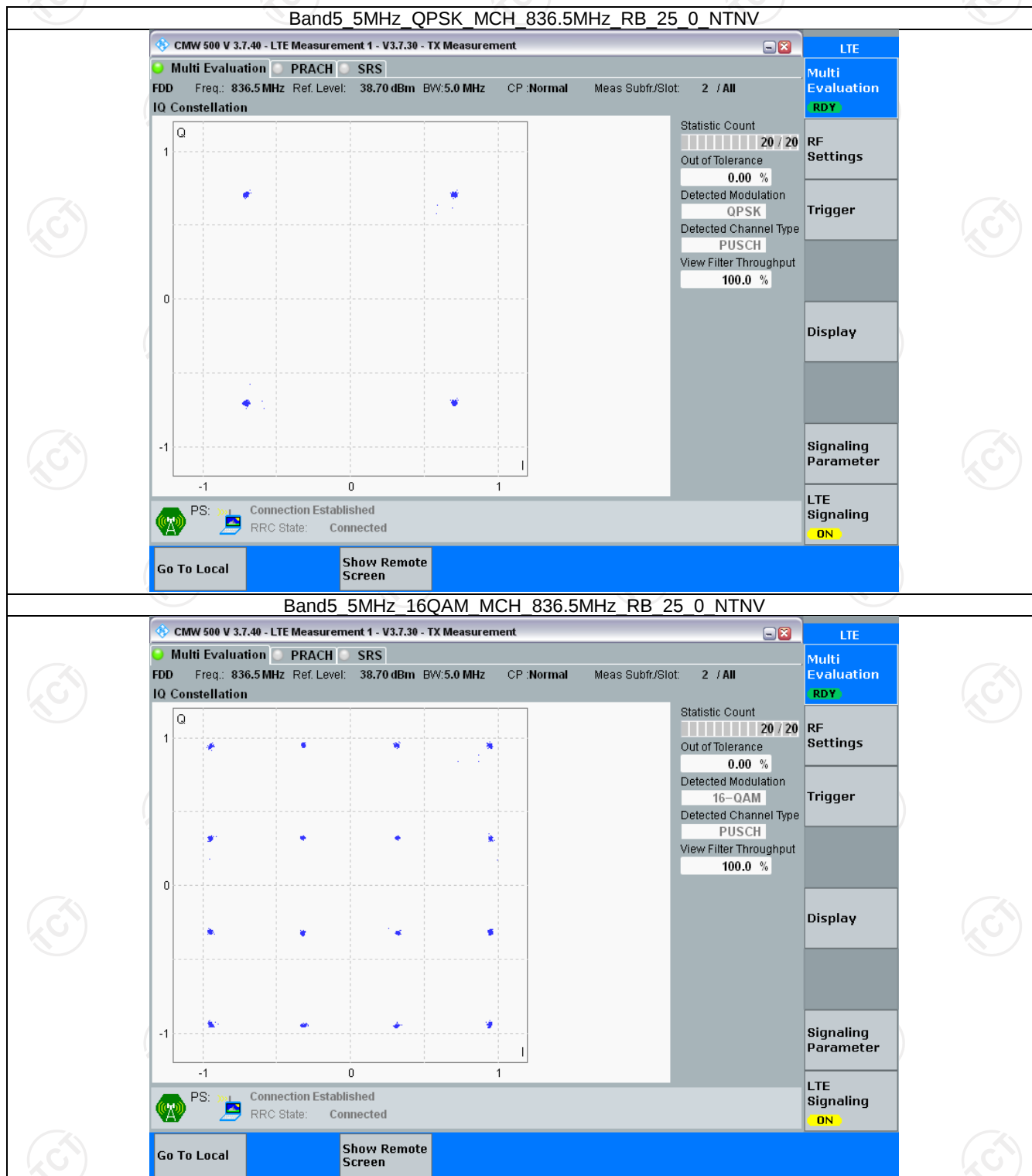
3.2.1 B5_1.4MHz



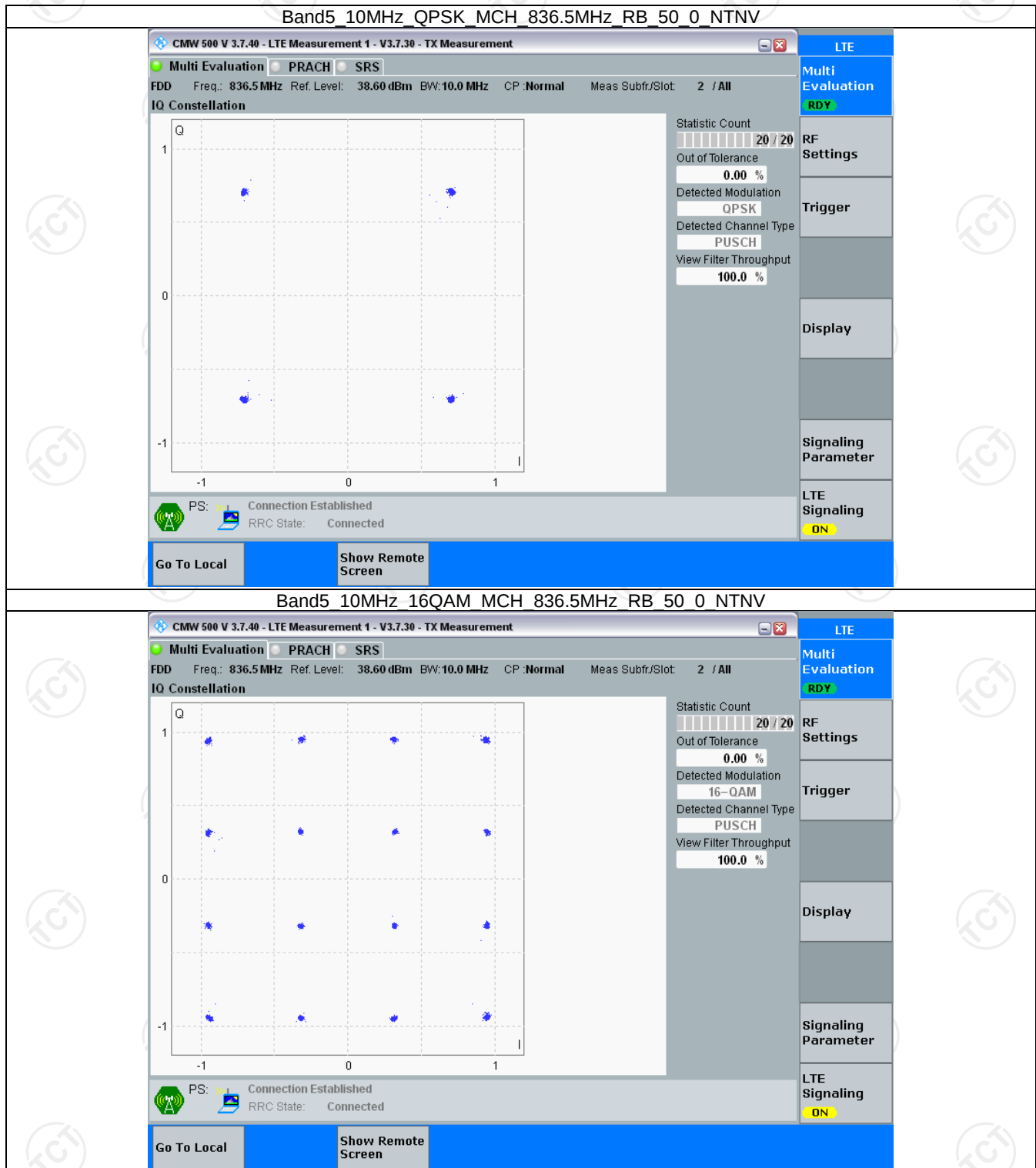
3.2.2 B5_3MHz



3.2.3 B5_5MHz



3.2.4 B5_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band5_OBW

Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.112	/	Pass
		836.5	6	0	1.106	/	Pass
		848.3	6	0	1.120	/	Pass
	16QAM	824.7	6	0	1.106	/	Pass
		836.5	6	0	1.115	/	Pass
		848.3	6	0	1.109	/	Pass
3	QPSK	825.5	15	0	2.728	/	Pass
		836.5	15	0	2.736	/	Pass
		847.5	15	0	2.718	/	Pass
	16QAM	825.5	15	0	2.719	/	Pass
		836.5	15	0	2.721	/	Pass
		847.5	15	0	2.711	/	Pass
5	QPSK	826.5	25	0	4.570	/	Pass
		836.5	25	0	4.560	/	Pass
		846.5	25	0	4.577	/	Pass
	16QAM	826.5	25	0	4.578	/	Pass
		836.5	25	0	4.589	/	Pass
		846.5	25	0	4.549	/	Pass
10	QPSK	829	50	0	9.080	/	Pass
		836.5	50	0	9.075	/	Pass
		844	50	0	9.093	/	Pass
	16QAM	829	50	0	9.074	/	Pass
		836.5	50	0	9.072	/	Pass
		844	50	0	9.099	/	Pass

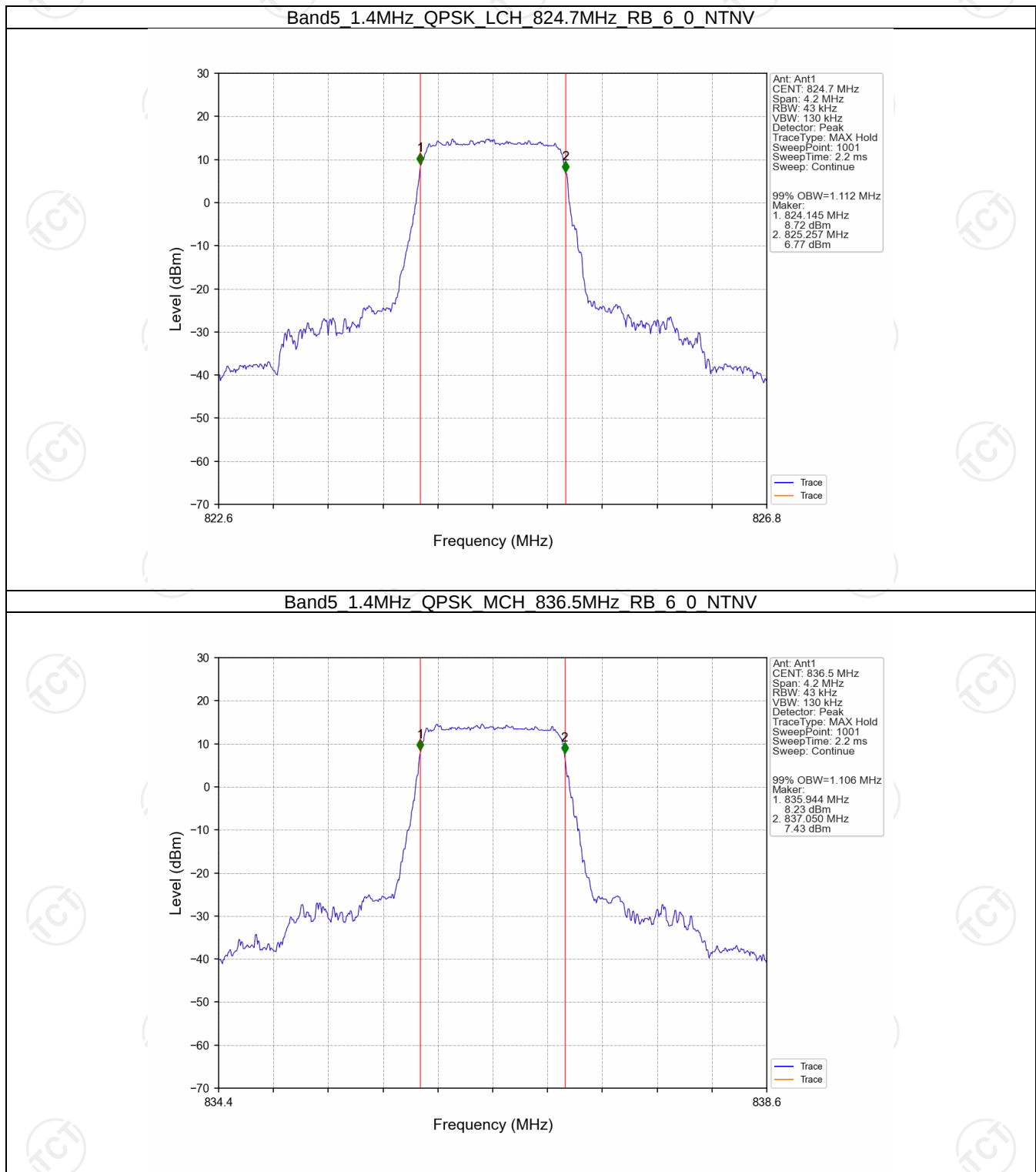
4.1.2 Band5_XDB

Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.322	/	Pass
		836.5	6	0	1.328	/	Pass
		848.3	6	0	1.309	/	Pass
	16QAM	824.7	6	0	1.310	/	Pass
		836.5	6	0	1.332	/	Pass
		848.3	6	0	1.316	/	Pass
3	QPSK	825.5	15	0	2.985	/	Pass
		836.5	15	0	2.992	/	Pass
		847.5	15	0	2.989	/	Pass
	16QAM	825.5	15	0	2.986	/	Pass
		836.5	15	0	2.969	/	Pass
		847.5	15	0	2.974	/	Pass
5	QPSK	826.5	25	0	5.294	/	Pass
		836.5	25	0	5.215	/	Pass
		846.5	25	0	5.246	/	Pass

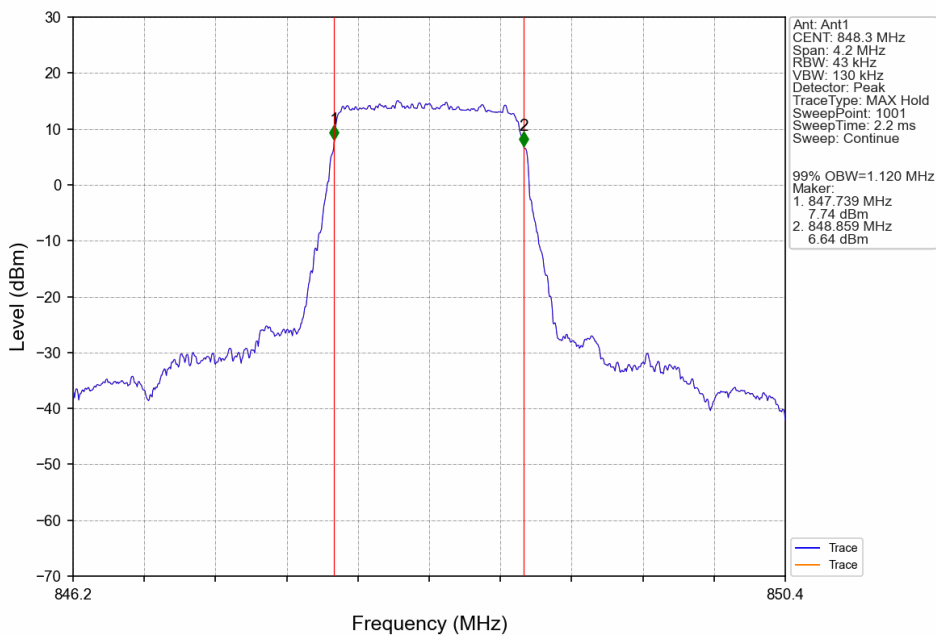
10	16QAM	826.5	25	0	5.312	/	Pass
		836.5	25	0	5.264	/	Pass
		846.5	25	0	5.221	/	Pass
	QPSK	829	50	0	10.343	/	Pass
		836.5	50	0	10.253	/	Pass
		844	50	0	10.386	/	Pass
	16QAM	829	50	0	10.260	/	Pass
		836.5	50	0	10.213	/	Pass
		844	50	0	10.286	/	Pass

4.2 Test Graph

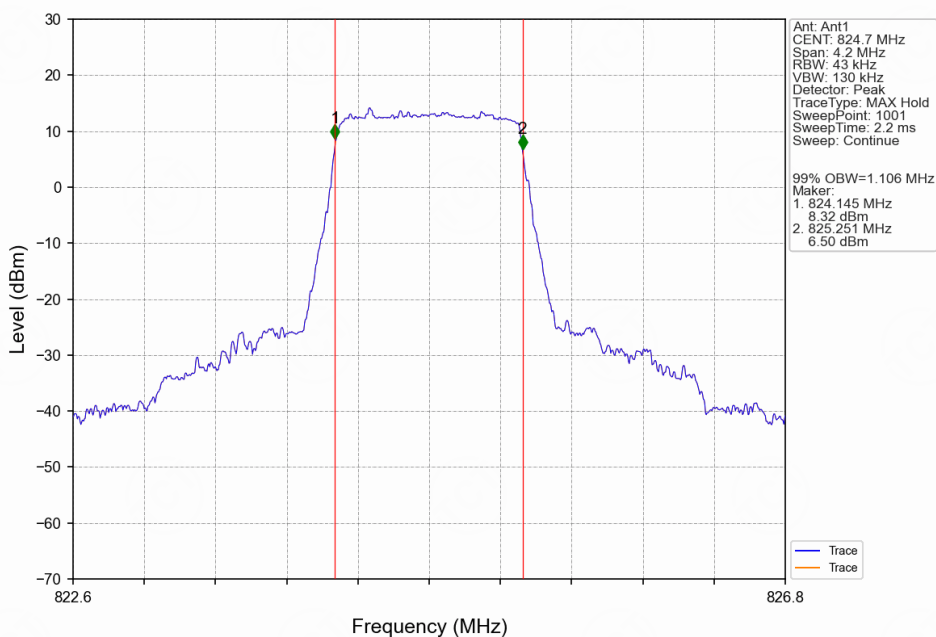
4.2.1 Band5_OBW



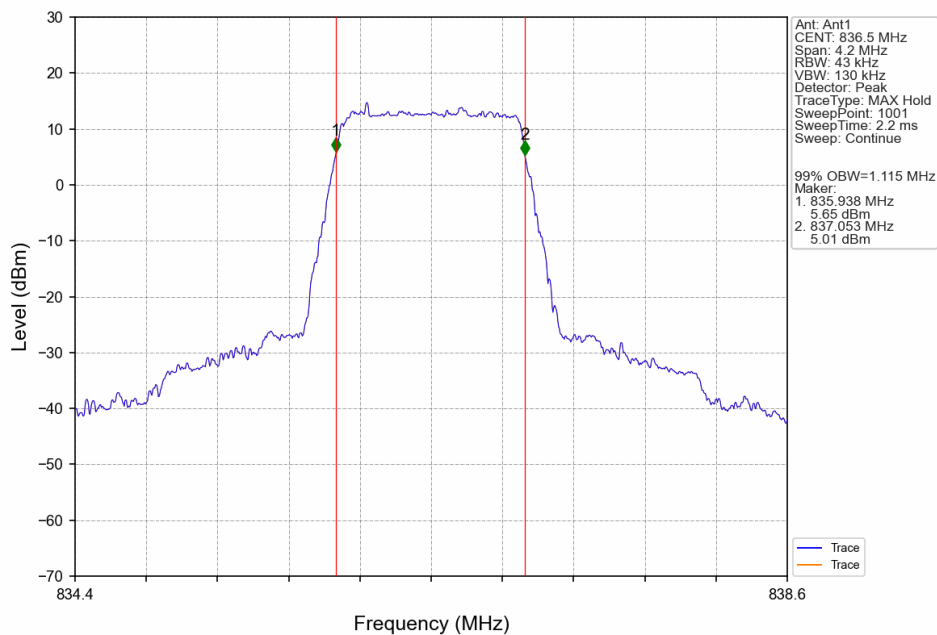
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN



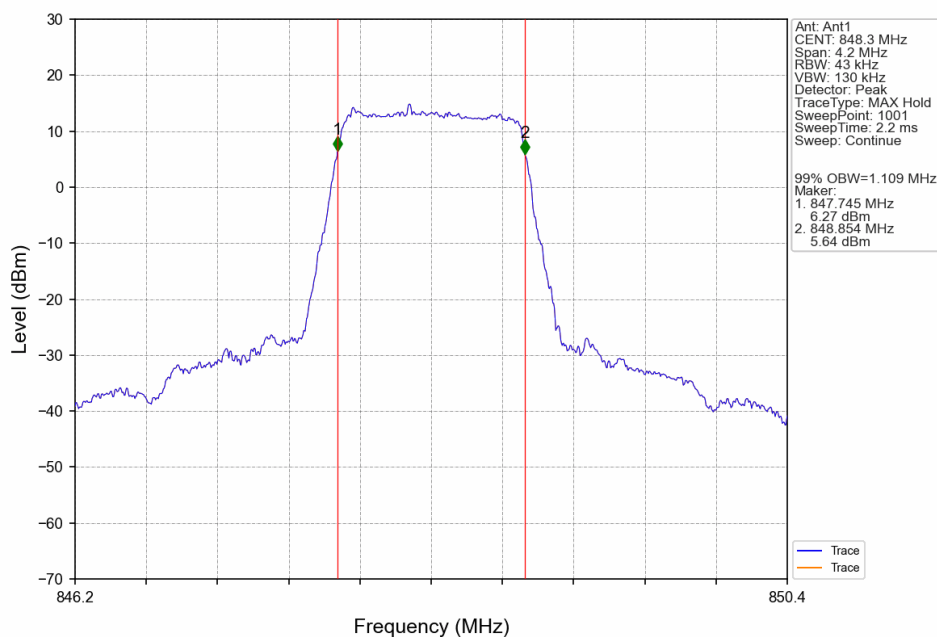
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTN



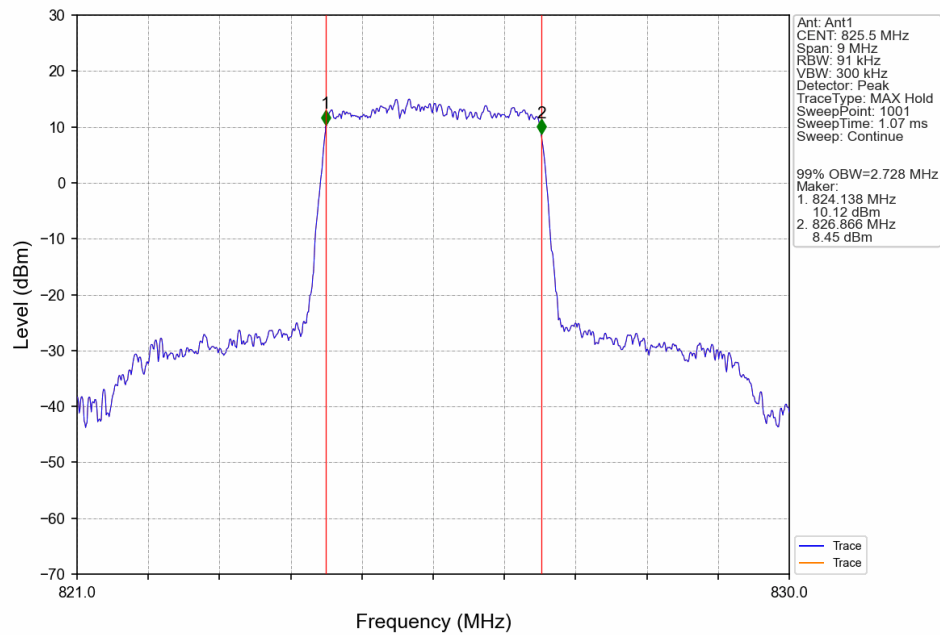
Band5 1.4MHz 16QAM MCH 836.5MHz RB 6 0 NTNV



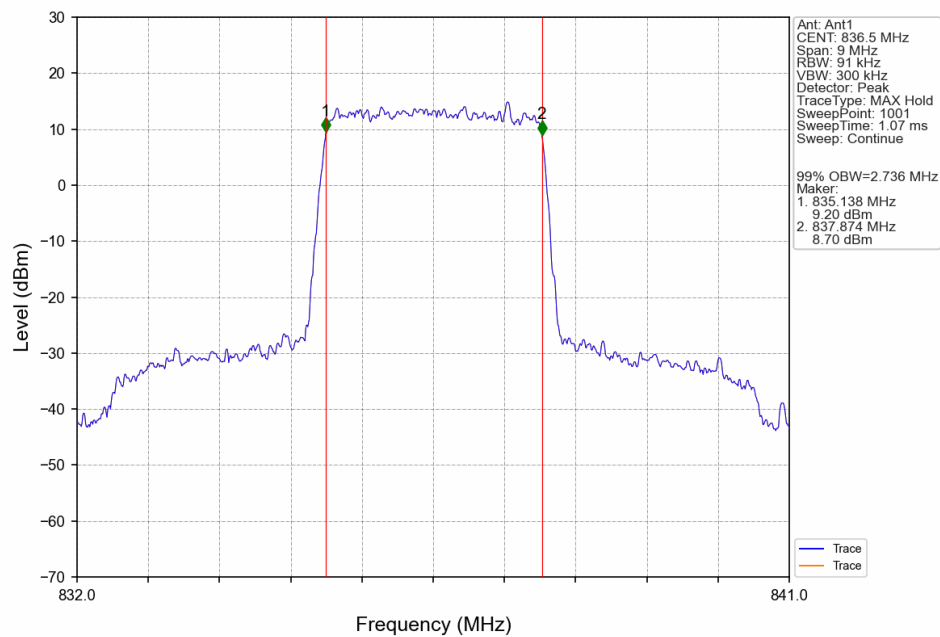
Band5 1.4MHz 16QAM HCH 848.3MHz RB 6 0 NTNV



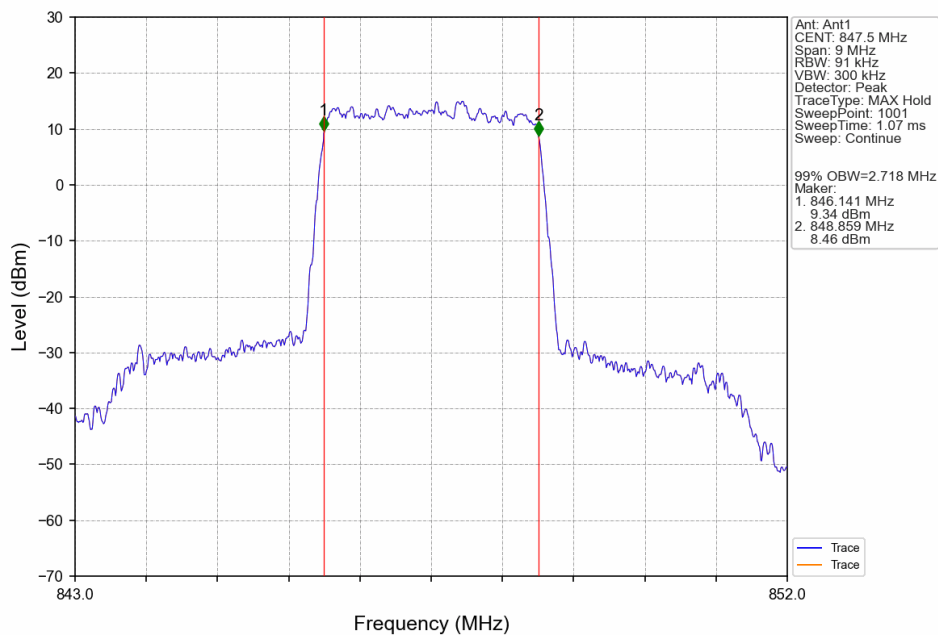
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



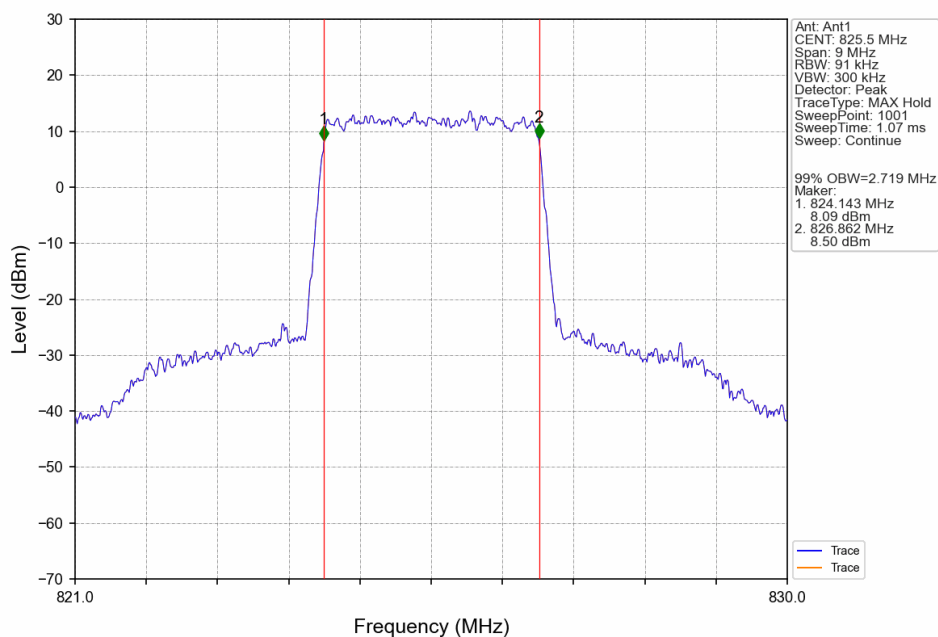
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



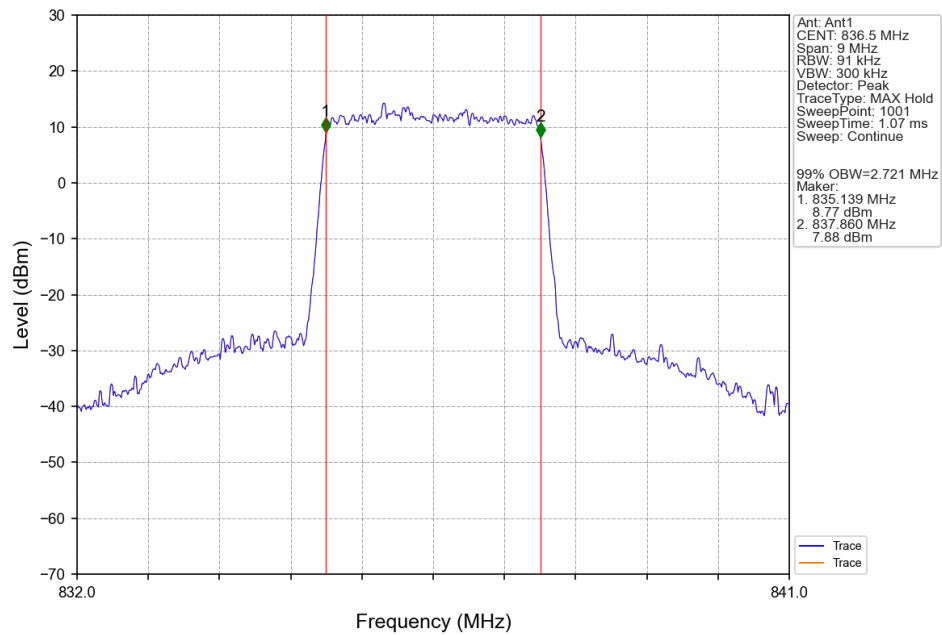
Band5 3MHz QPSK HCH 847.5MHz RB 15 0 NTN



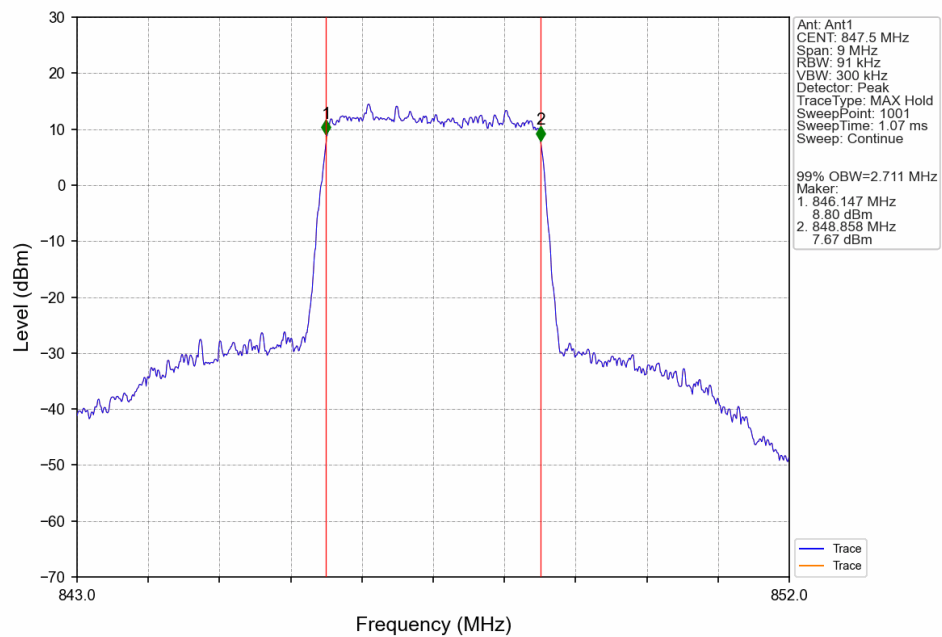
Band5 3MHz 16QAM LCH 825.5MHz RB 15 0 NTN



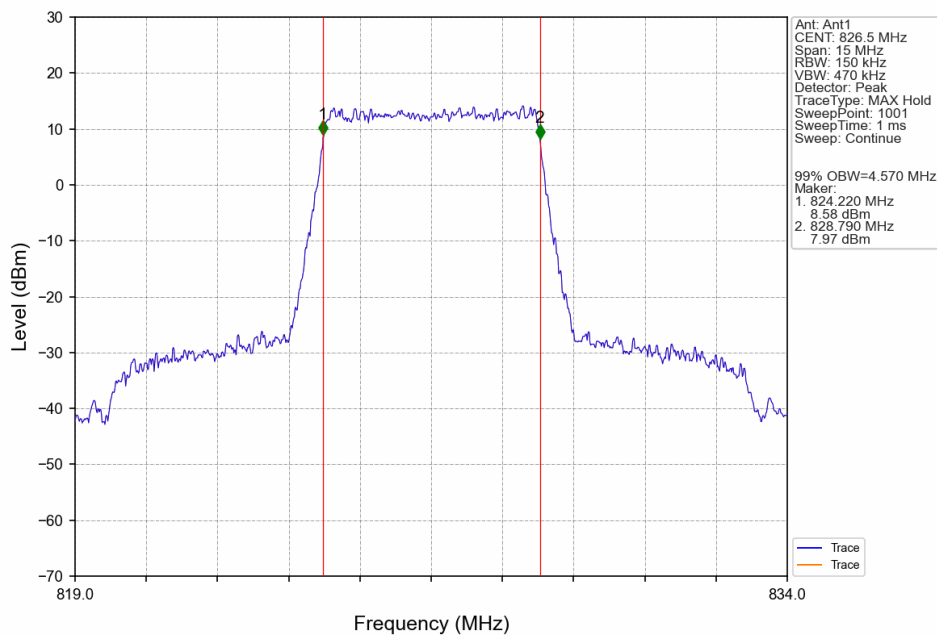
Band5 3MHz 16QAM MCH 836.5MHz RB 15 0 NTV



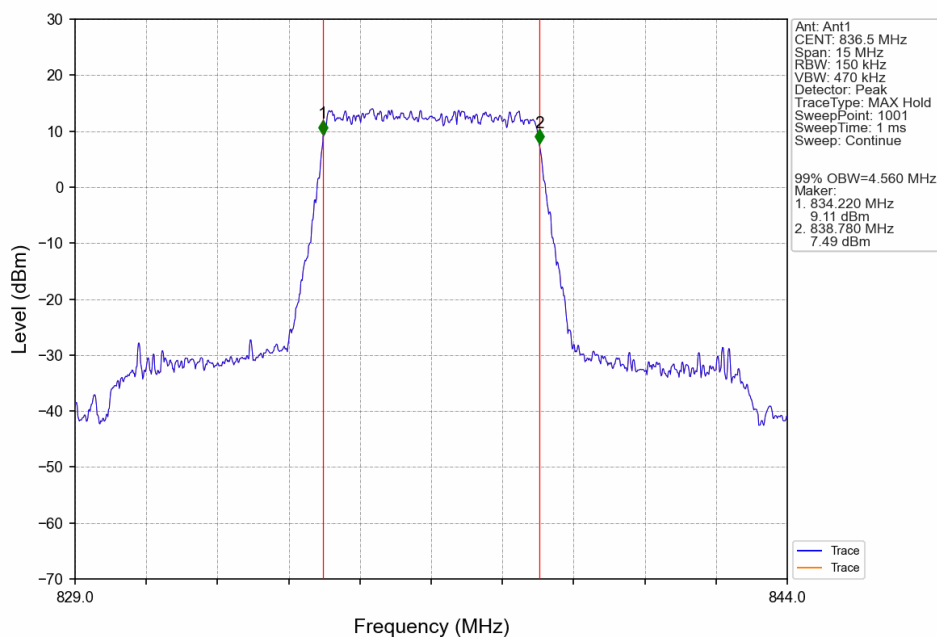
Band5 3MHz 16QAM HCH 847.5MHz RB 15 0 NTV



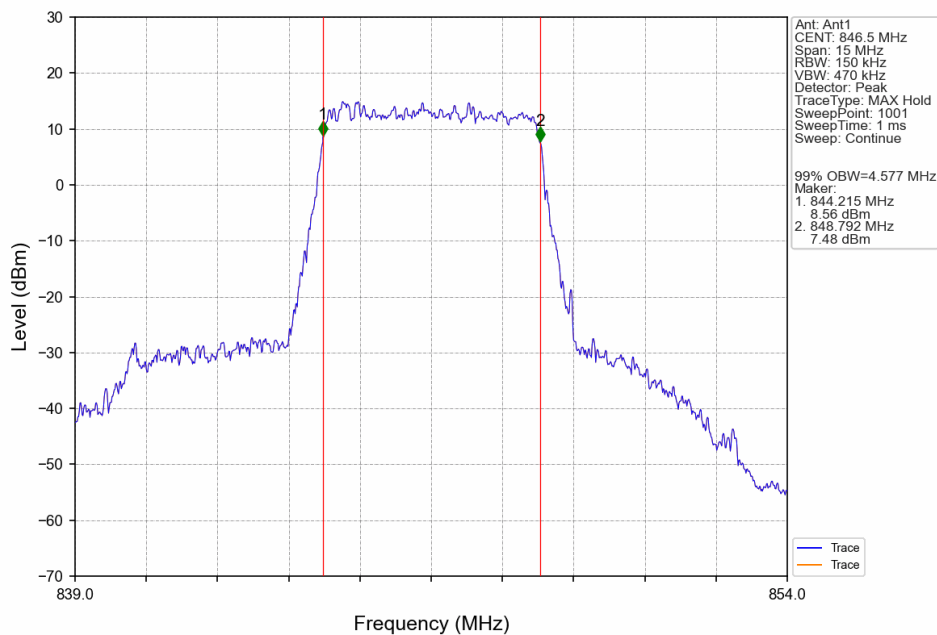
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



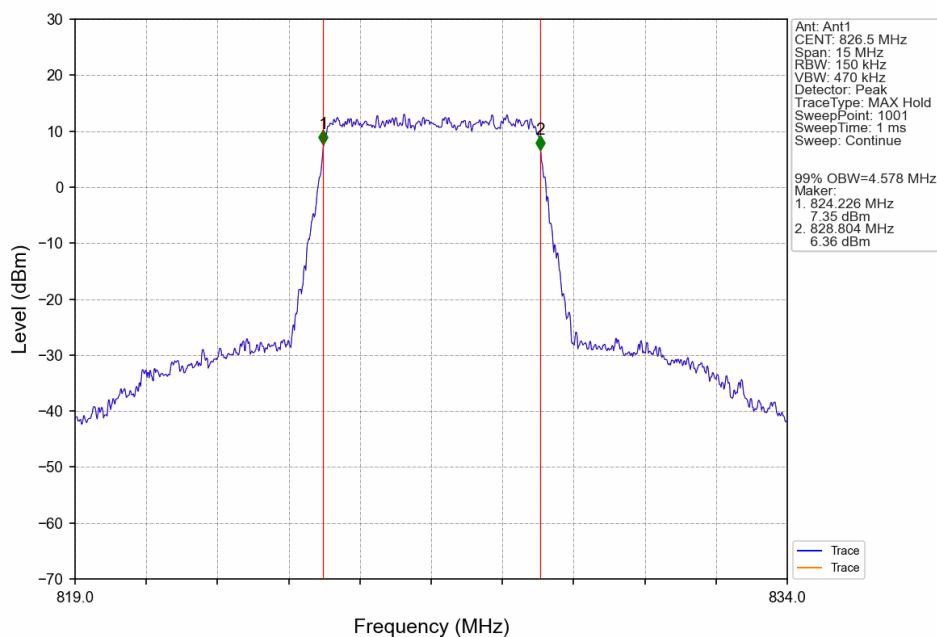
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



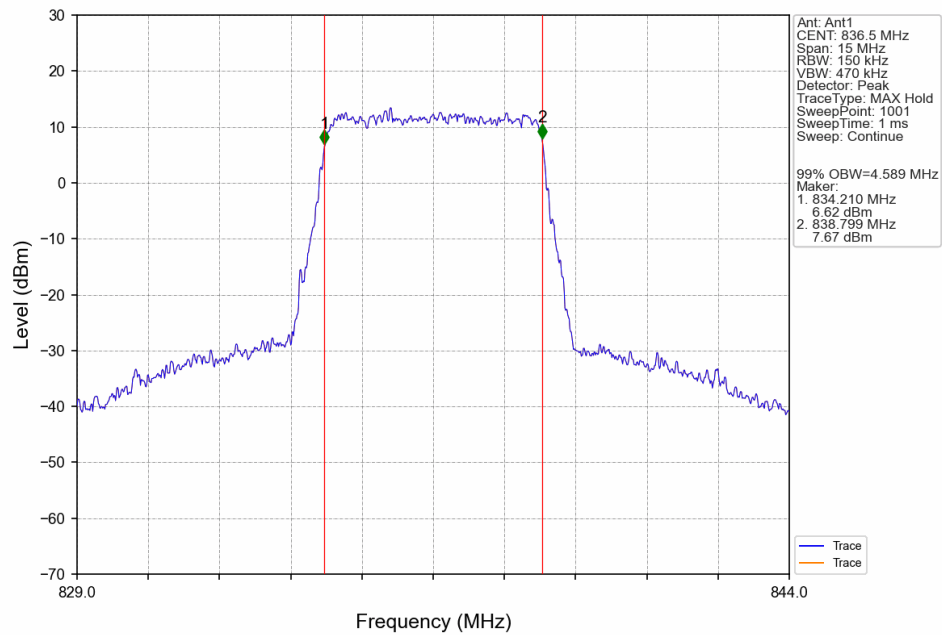
Band5 5MHz QPSK HCH 846.5MHz RB 25 0 NTN



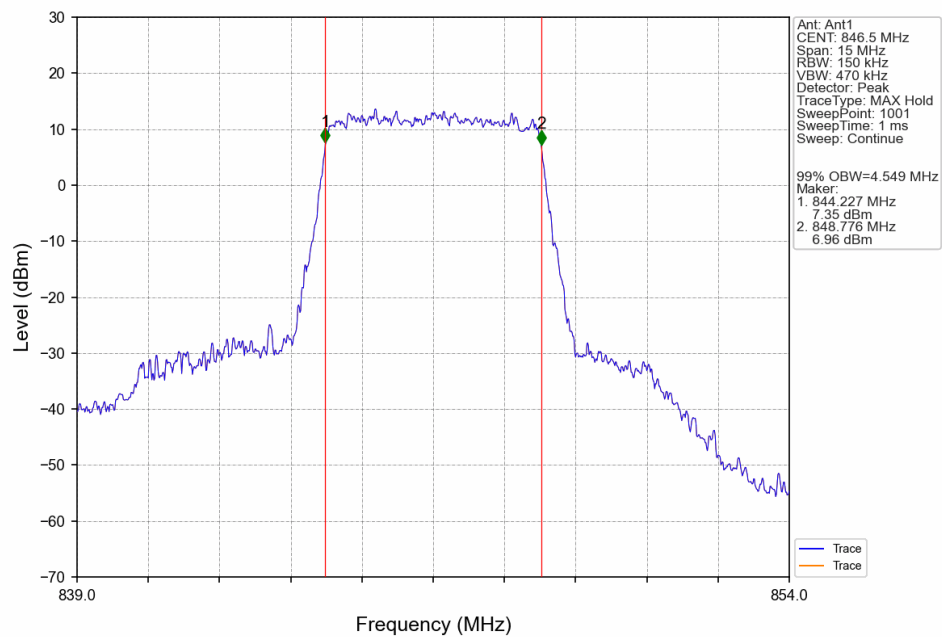
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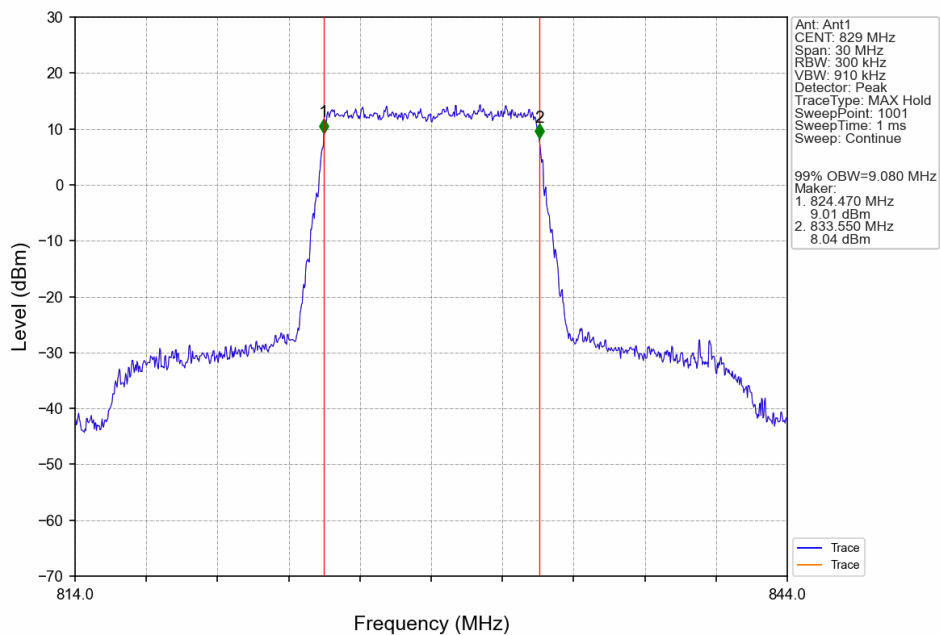
Band5 5MHz 16QAM MCH 836.5MHz RB 25 0 NTV



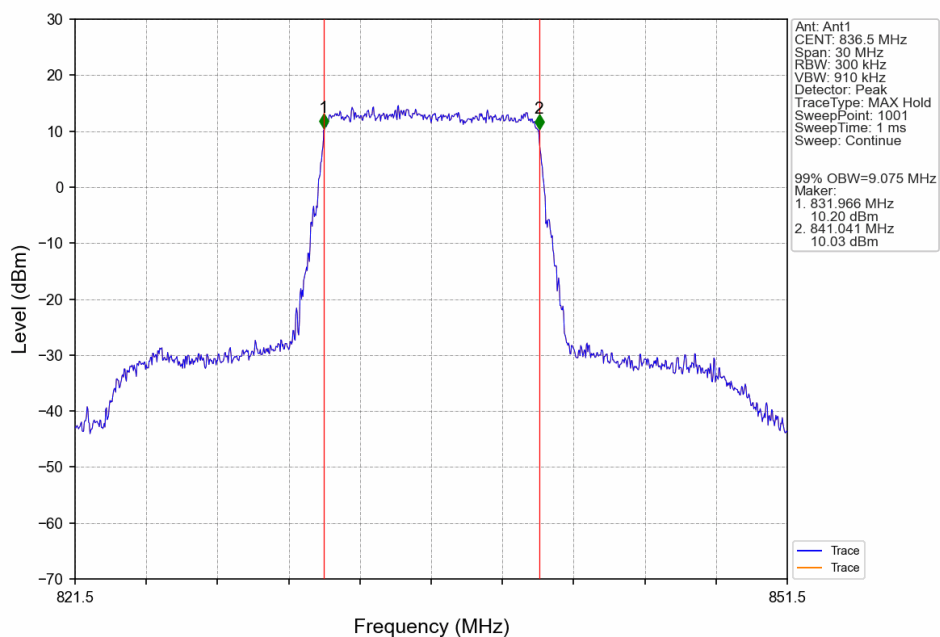
Band5 5MHz 16QAM HCH 846.5MHz RB 25 0 NTV



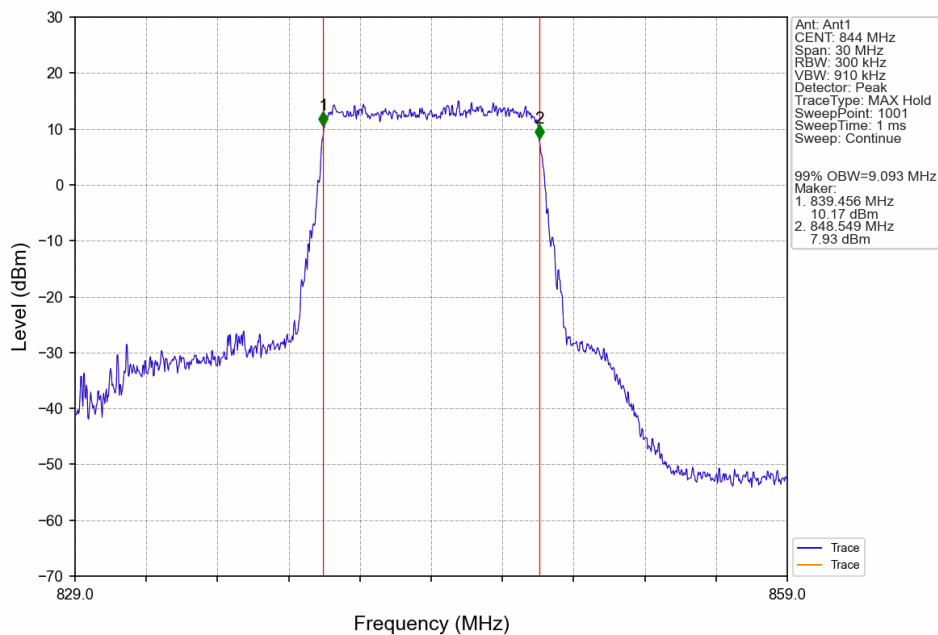
Band5 10MHz QPSK LCH 829MHz RB 50 0 NTNV



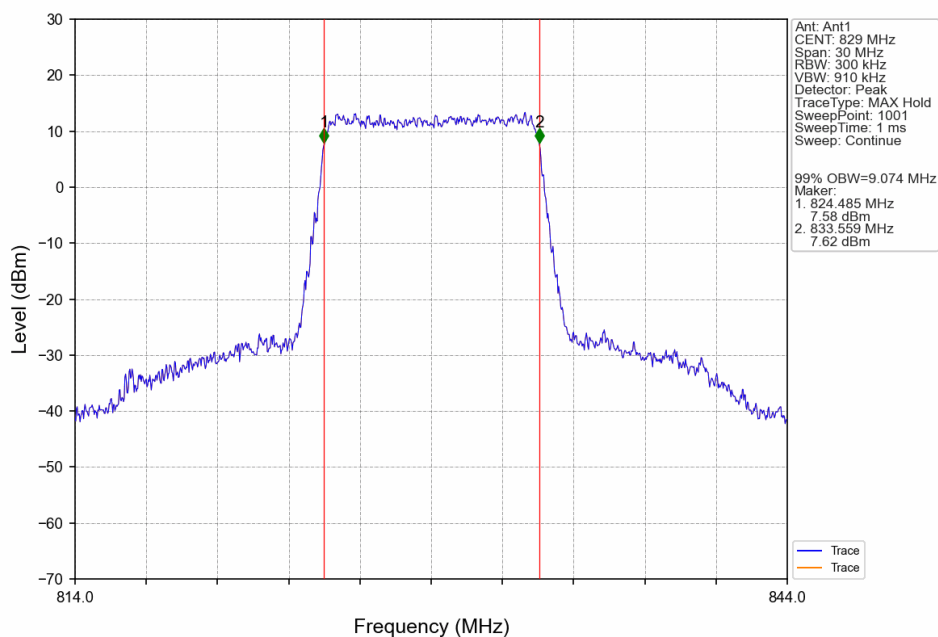
Band5 10MHz QPSK MCH 836.5MHz RB 50 0 NTNV



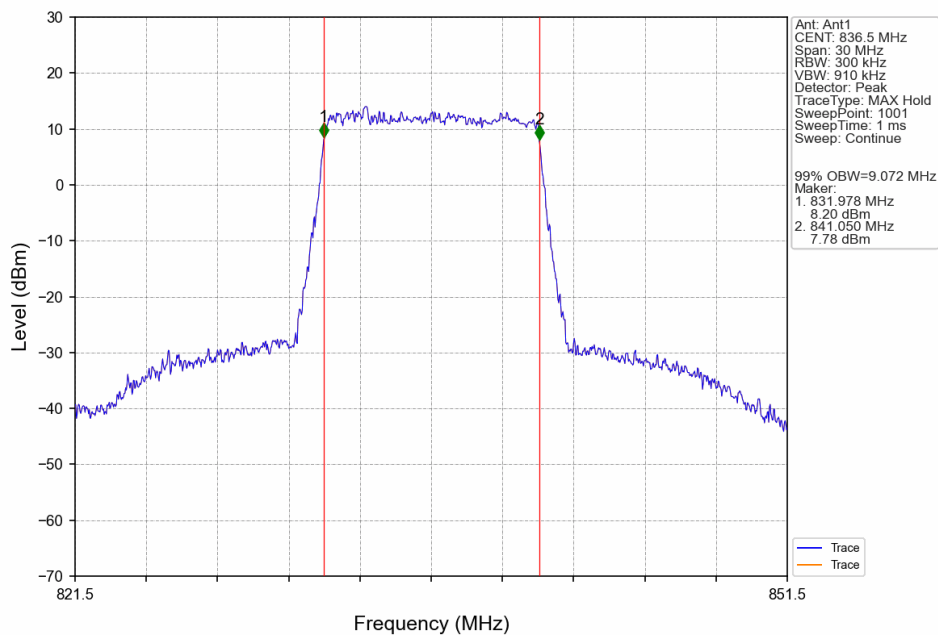
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



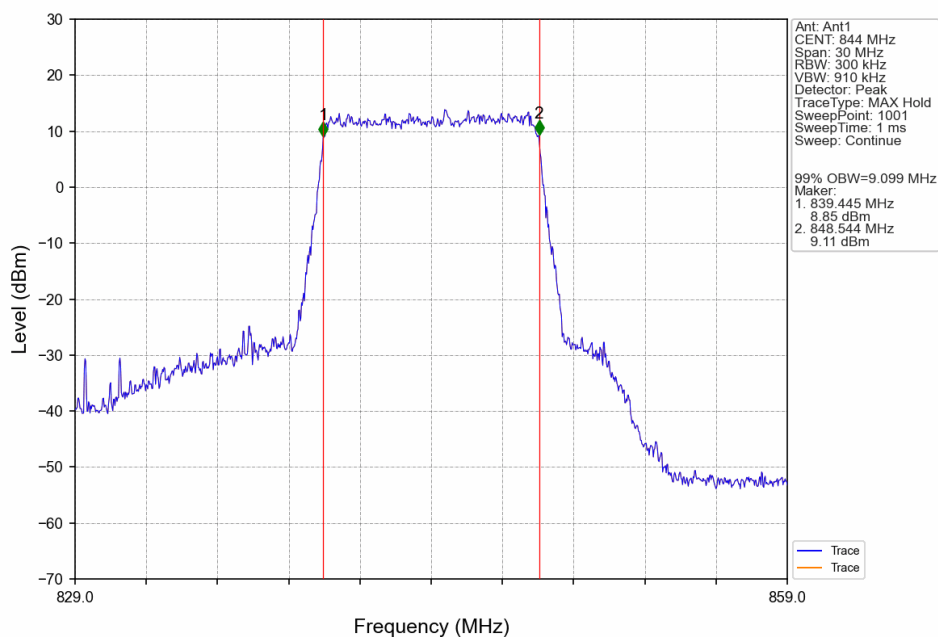
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



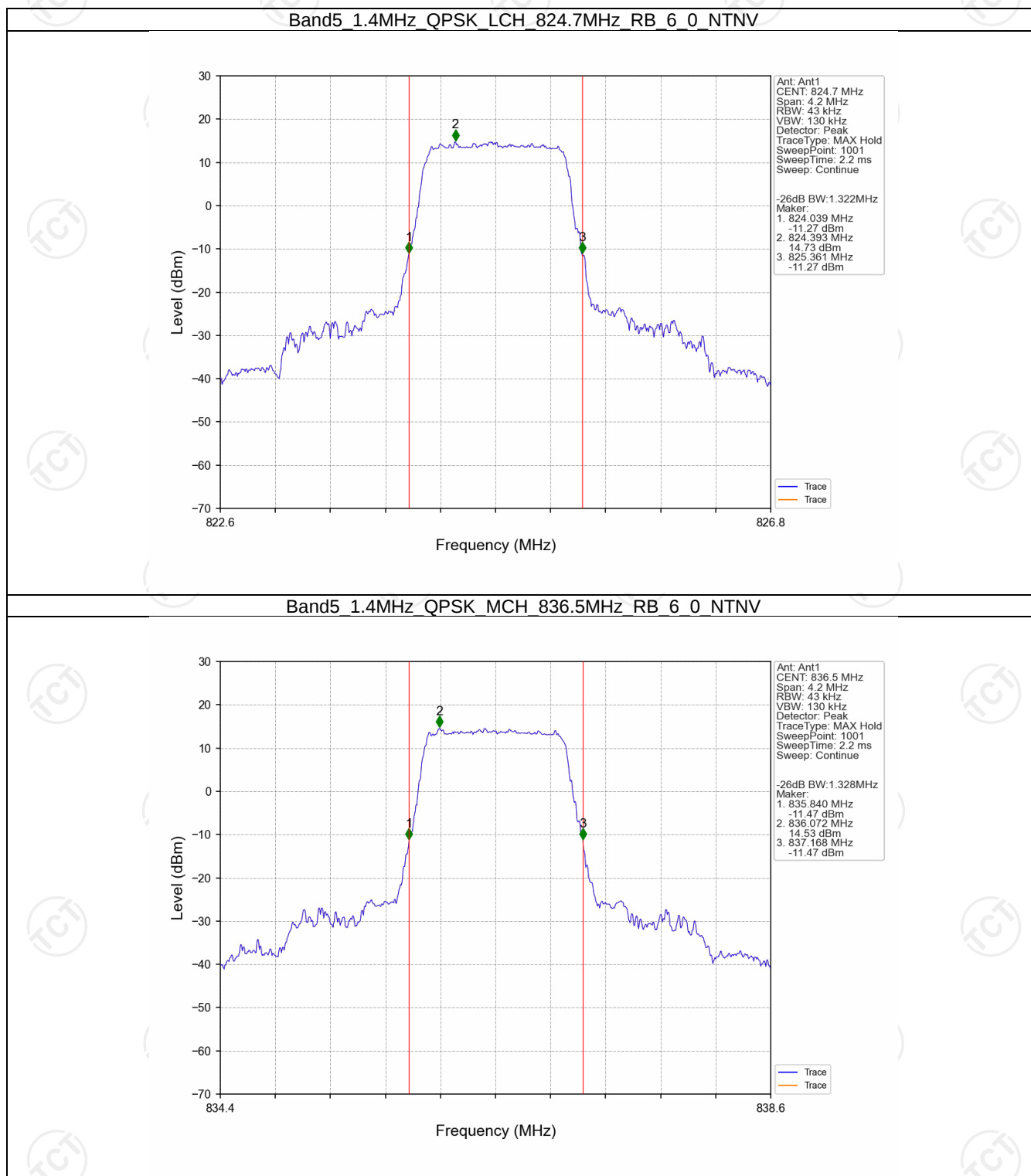
Band5 10MHz 16QAM MCH 836.5MHz RB 50 0 NTNV



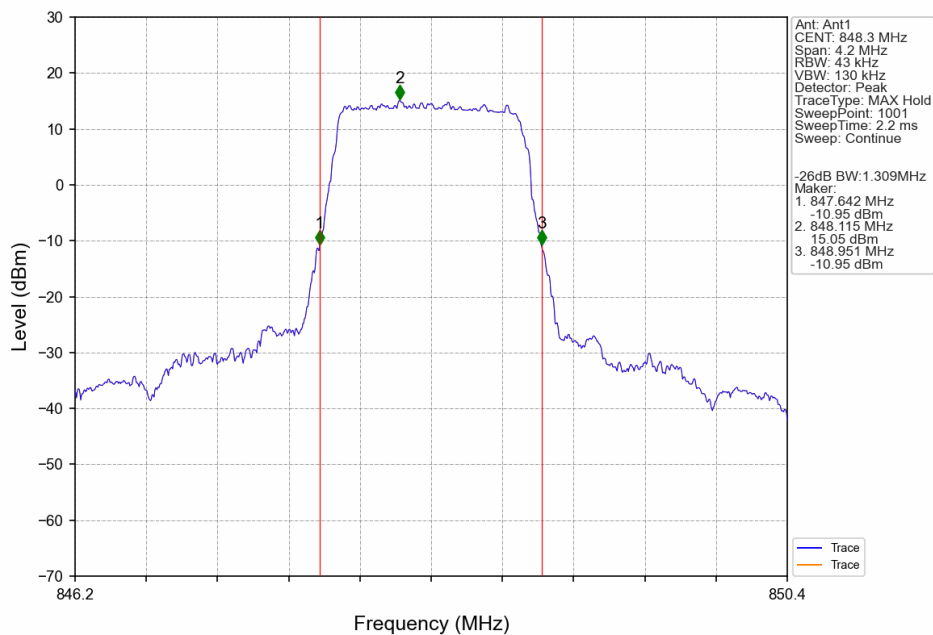
Band5 10MHz 16QAM HCH 844MHz RB 50 0 NTNV



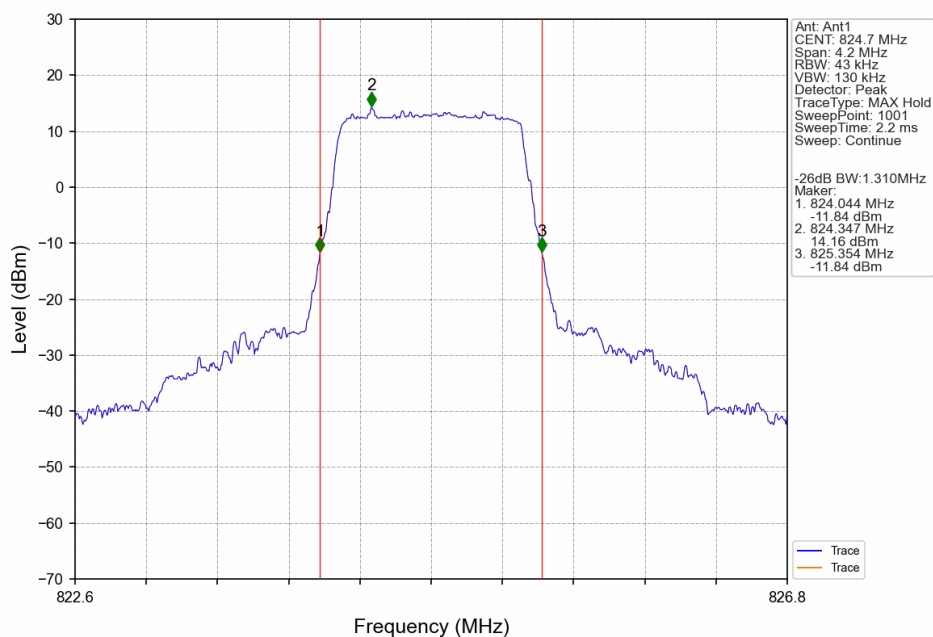
4.2.2 Band5_XDB



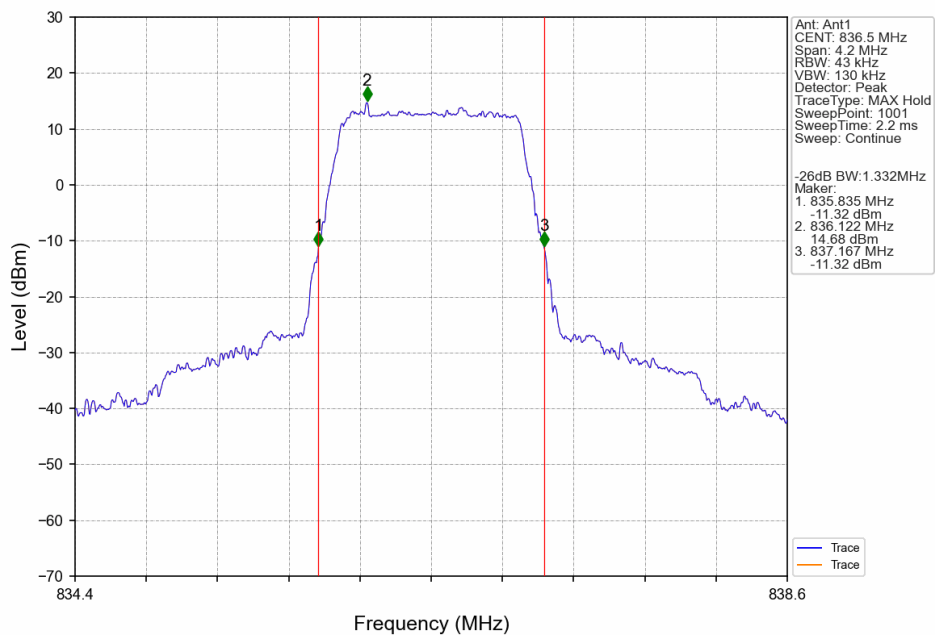
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN



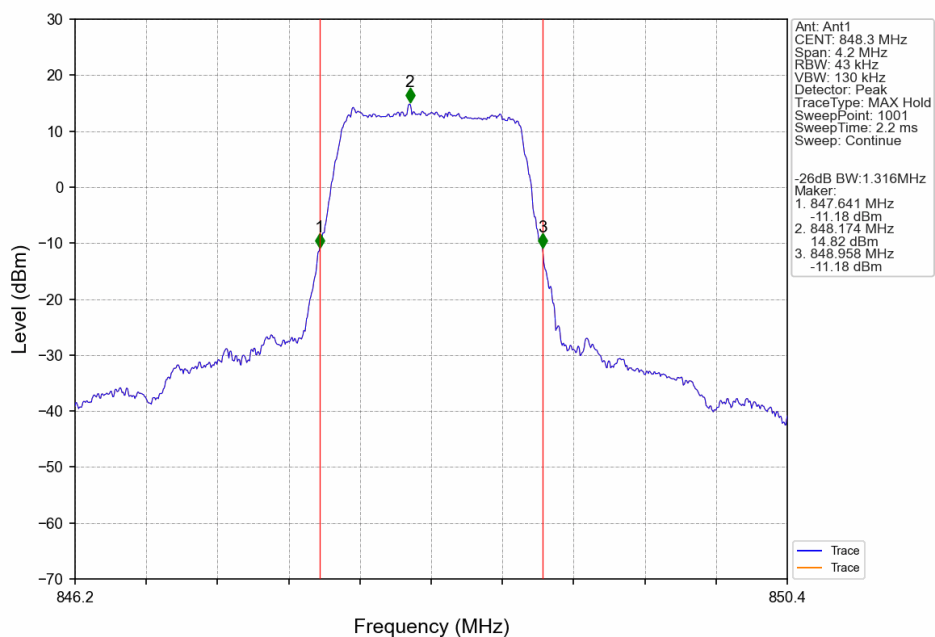
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTN



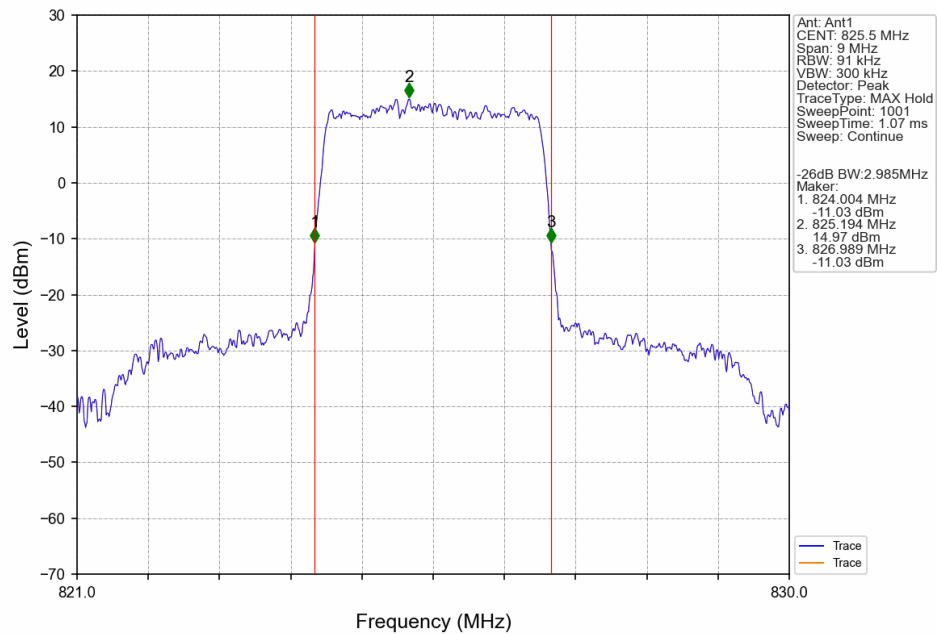
Band5 1.4MHz 16QAM MCH 836.5MHz RB 6 0 NTV



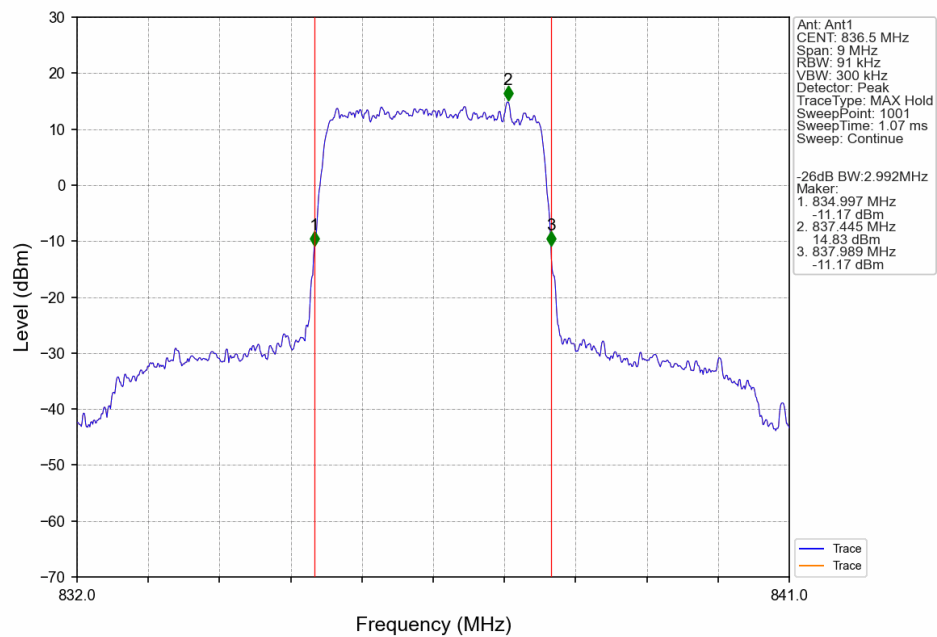
Band5 1.4MHz 16QAM HCH 848.3MHz RB 6 0 NTV



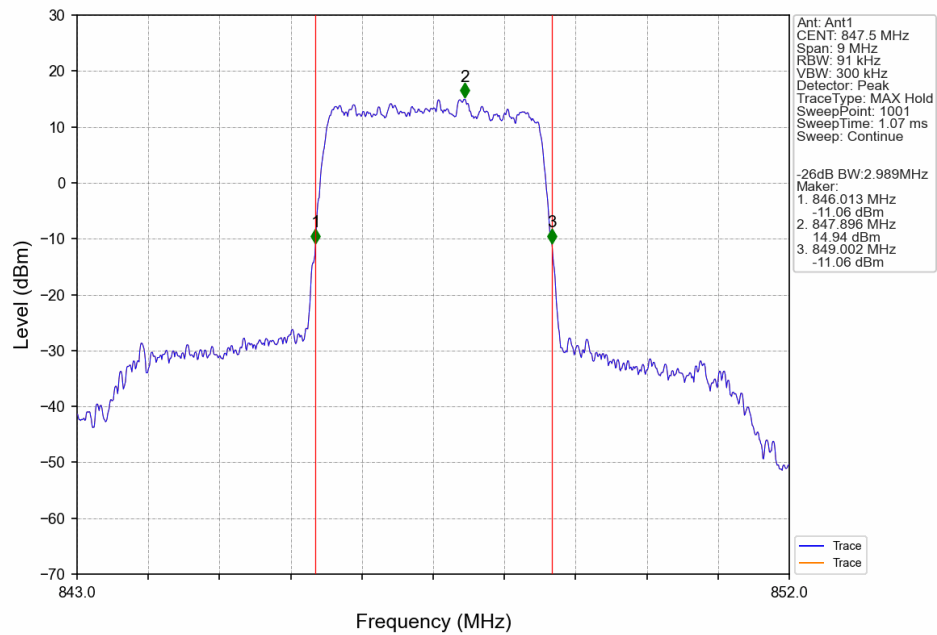
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



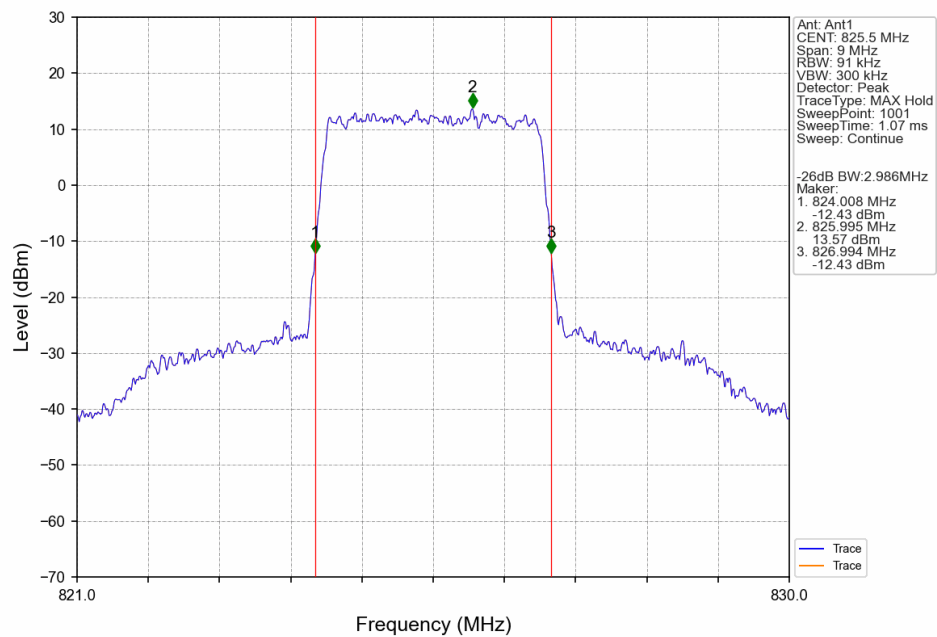
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



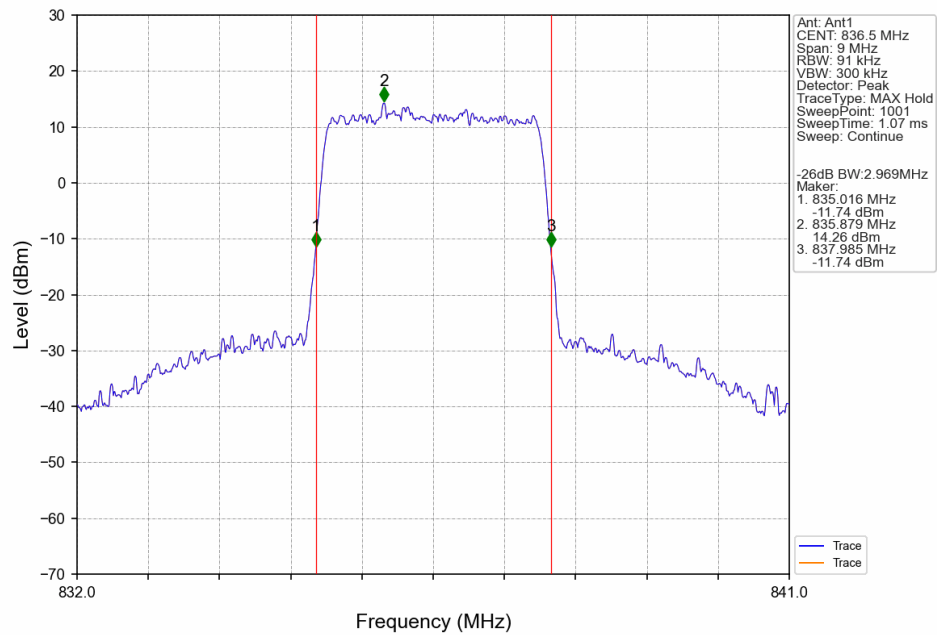
Band5 3MHz QPSK HCH 847.5MHz RB 15 0 NTNV



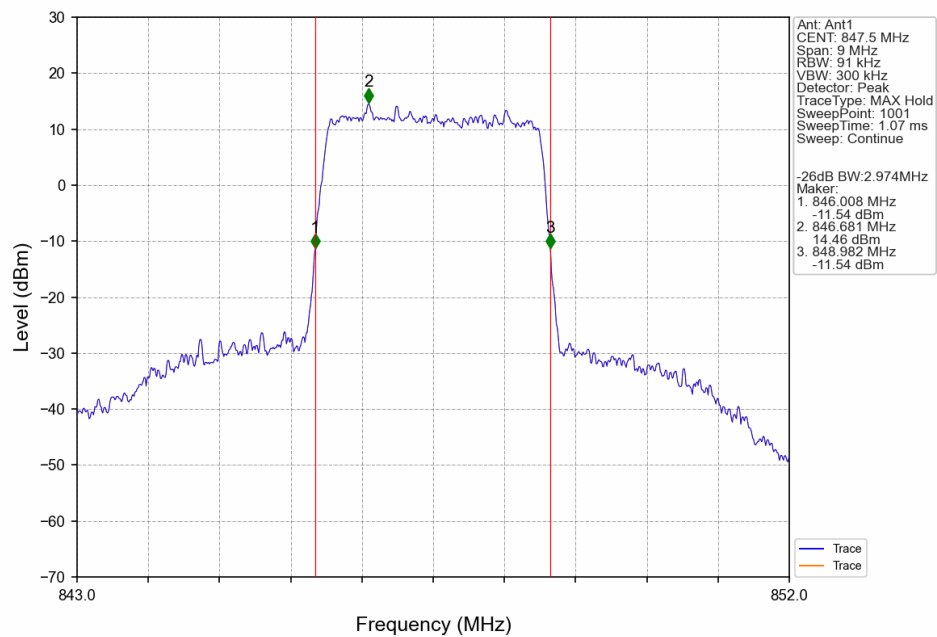
Band5 3MHz 16QAM LCH 825.5MHz RB 15 0 NTNV



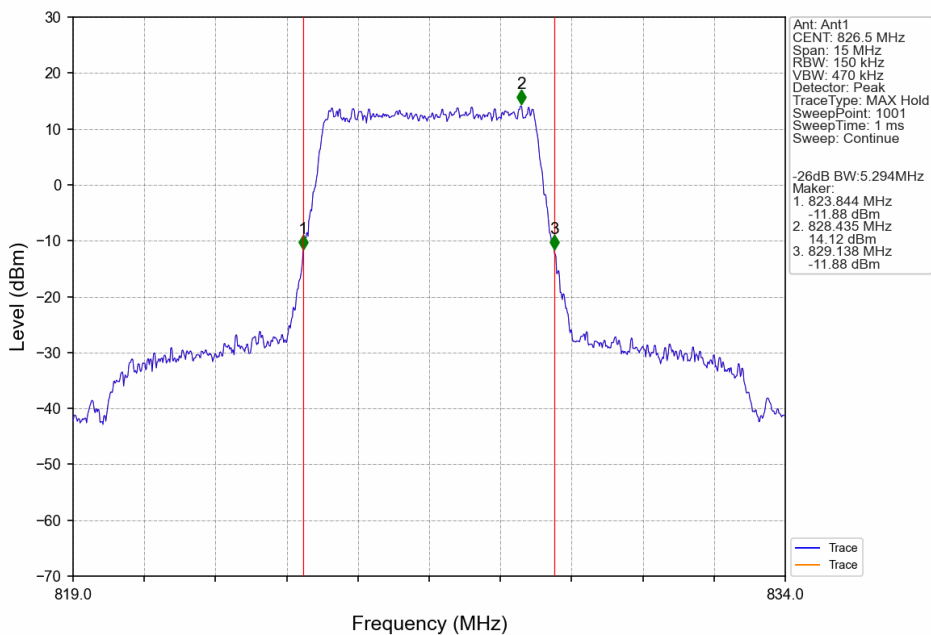
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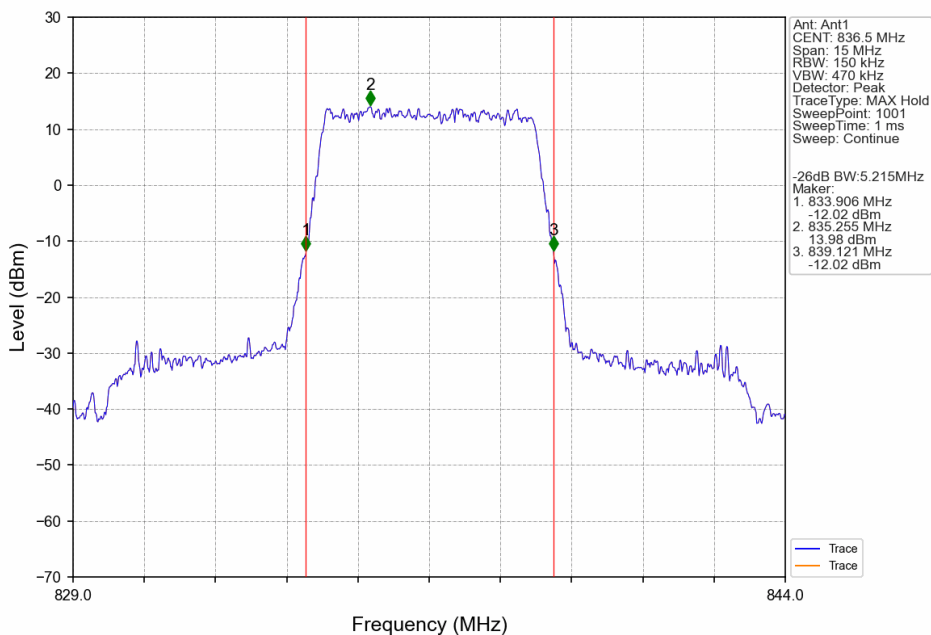
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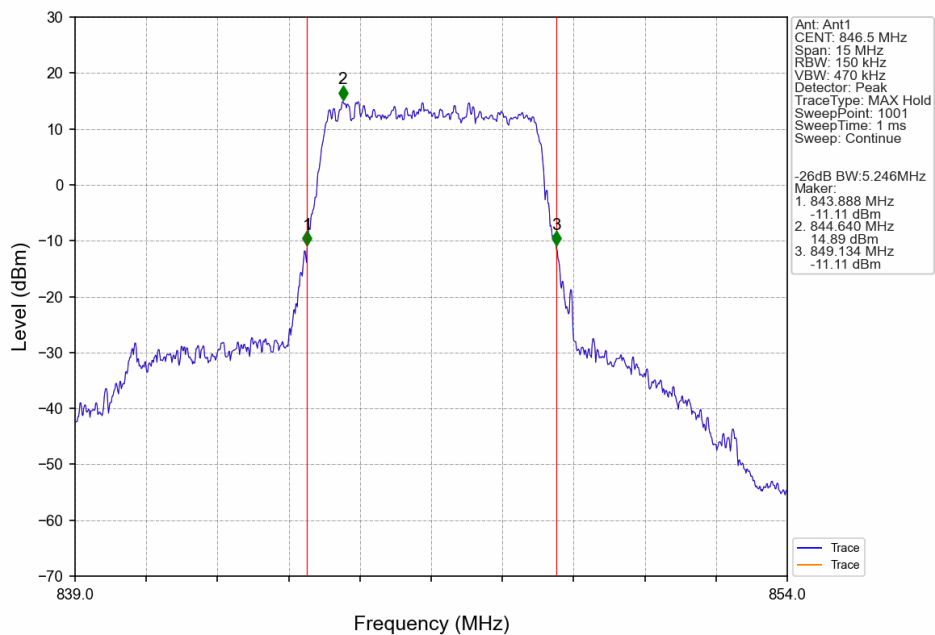
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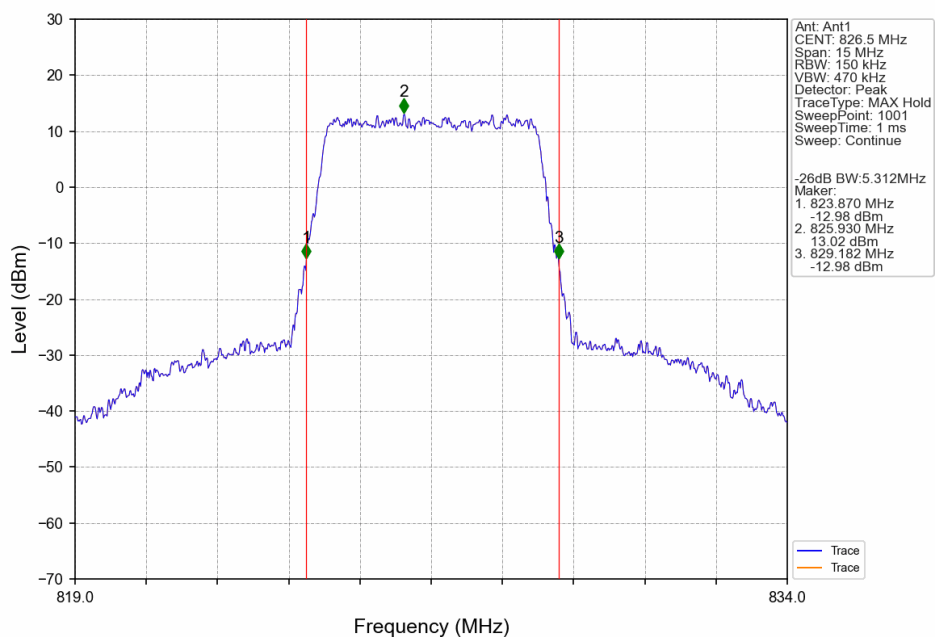
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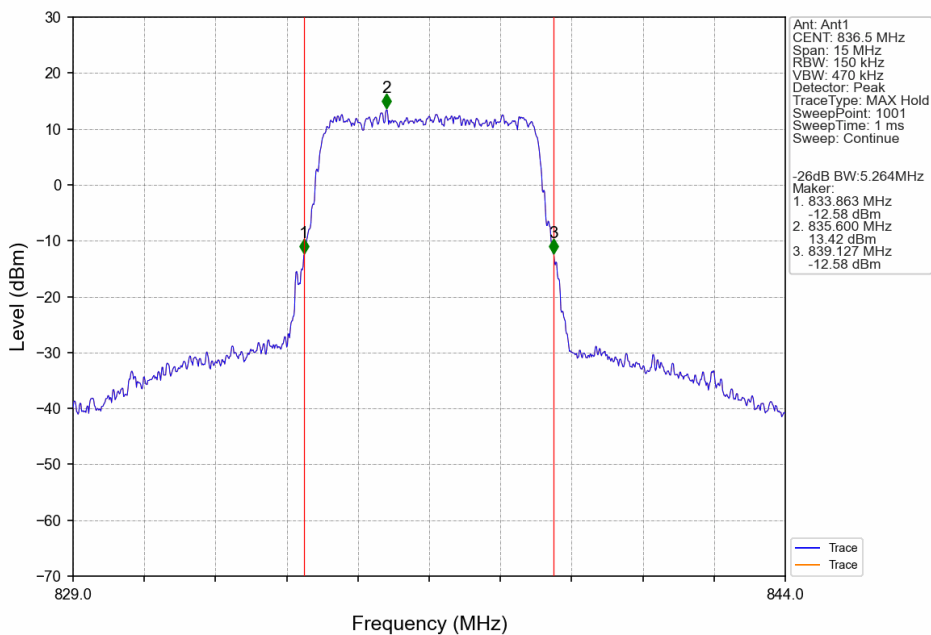
Band5 5MHz QPSK HCH 846.5MHz RB 25 0 NTN



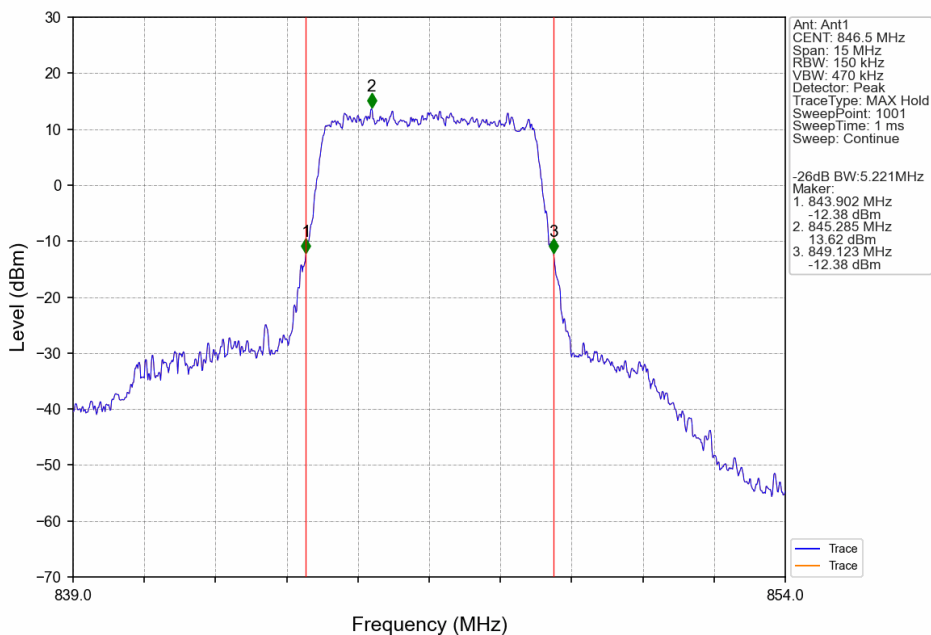
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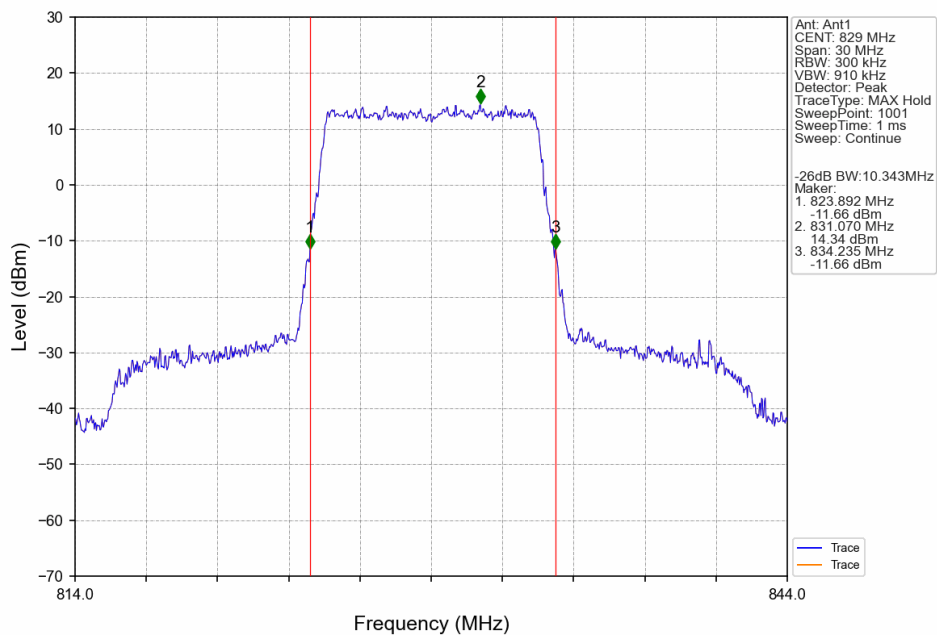
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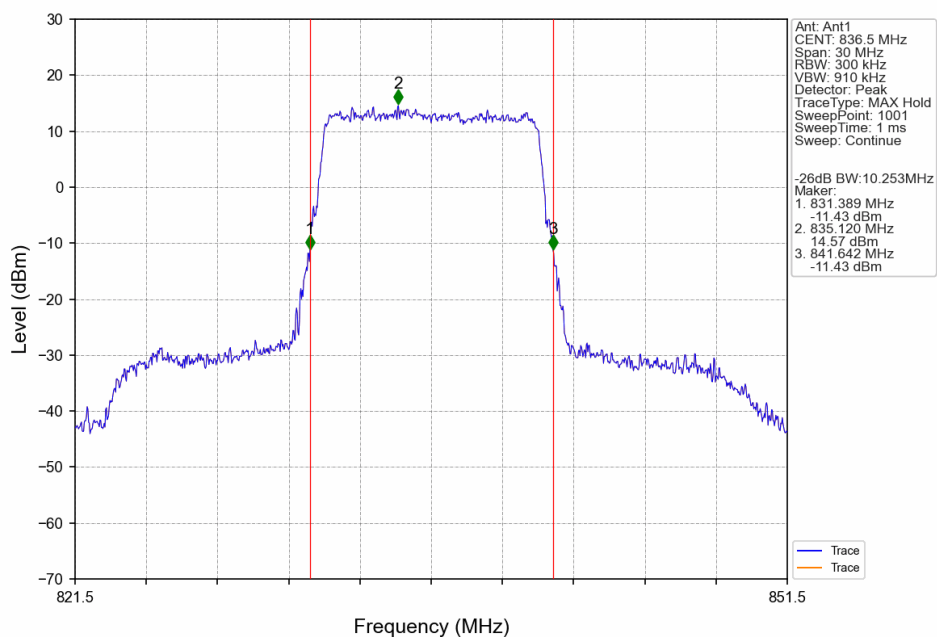
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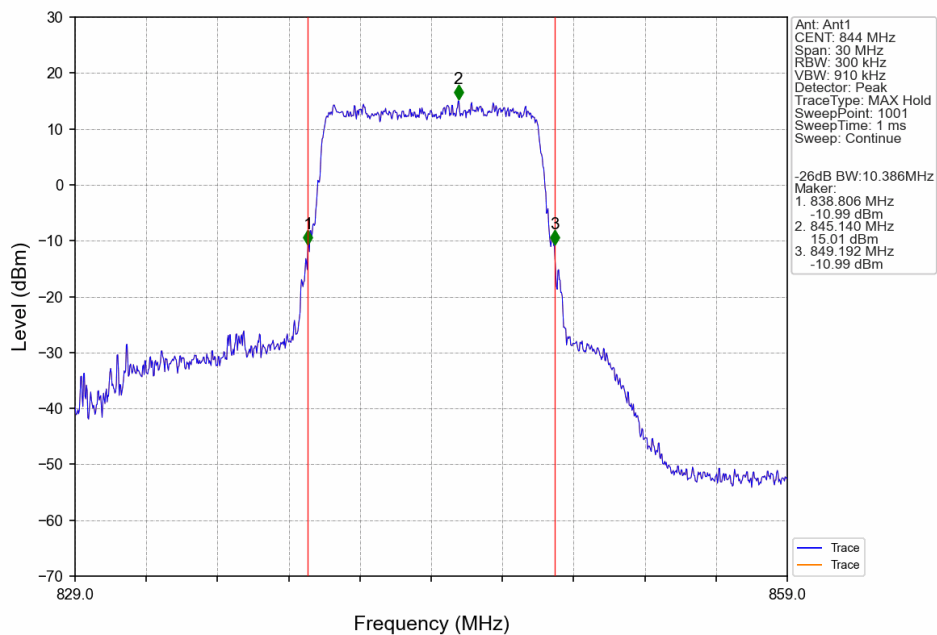
Band5 10MHz QPSK LCH 829MHz RB 50 0 NTNV



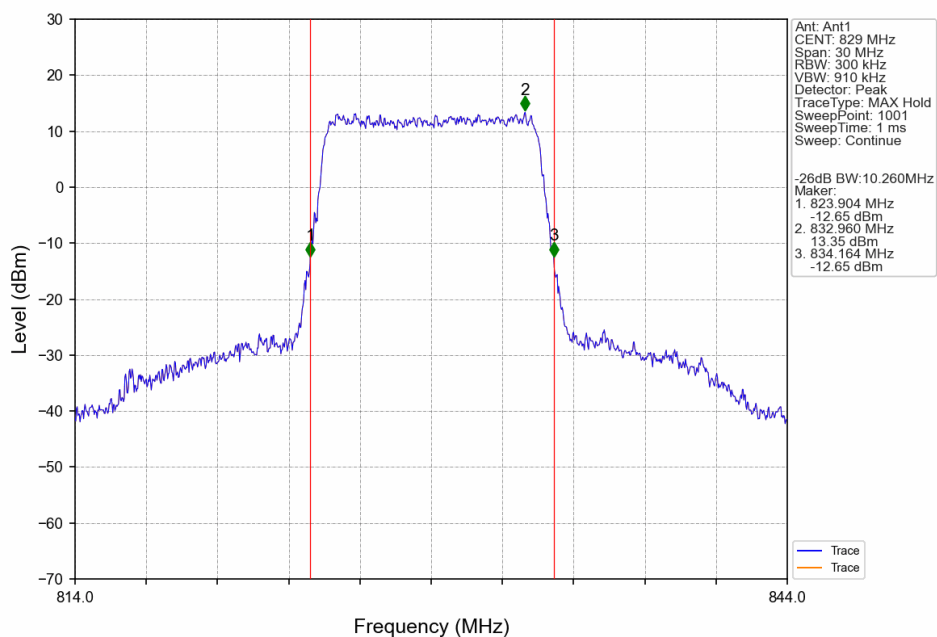
Band5 10MHz QPSK MCH 836.5MHz RB 50 0 NTNV



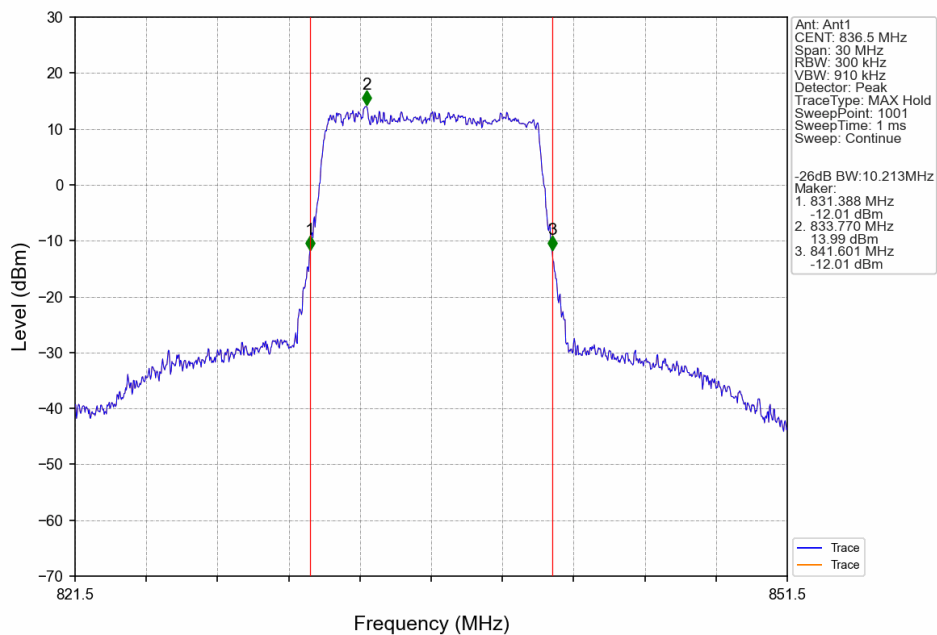
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



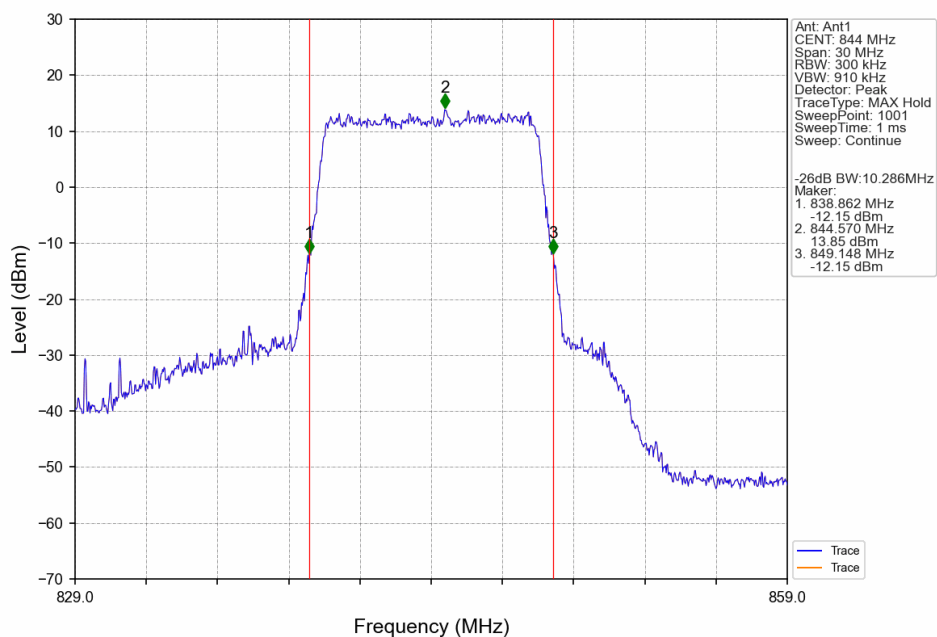
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5 10MHz 16QAM MCH 836.5MHz RB 50 0 NTV



Band5 10MHz 16QAM HCH 844MHz RB 50 0 NTV



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	5.36	<=13	Pass
	836.5	6	0	5.43	<=13	Pass
	848.3	6	0	5.40	<=13	Pass
16QAM	824.7	6	0	6.11	<=13	Pass
	836.5	6	0	6.25	<=13	Pass
	848.3	6	0	6.14	<=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	5.36	<=13	Pass
	836.5	15	0	5.43	<=13	Pass
	847.5	15	0	5.42	<=13	Pass
16QAM	825.5	15	0	6.12	<=13	Pass
	836.5	15	0	6.24	<=13	Pass
	847.5	15	0	6.23	<=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	5.54	<=13	Pass
	836.5	25	0	5.66	<=13	Pass
	846.5	25	0	5.50	<=13	Pass
16QAM	826.5	25	0	6.21	<=13	Pass
	836.5	25	0	6.28	<=13	Pass
	846.5	25	0	6.16	<=13	Pass

5.1.4 B5_10MHz

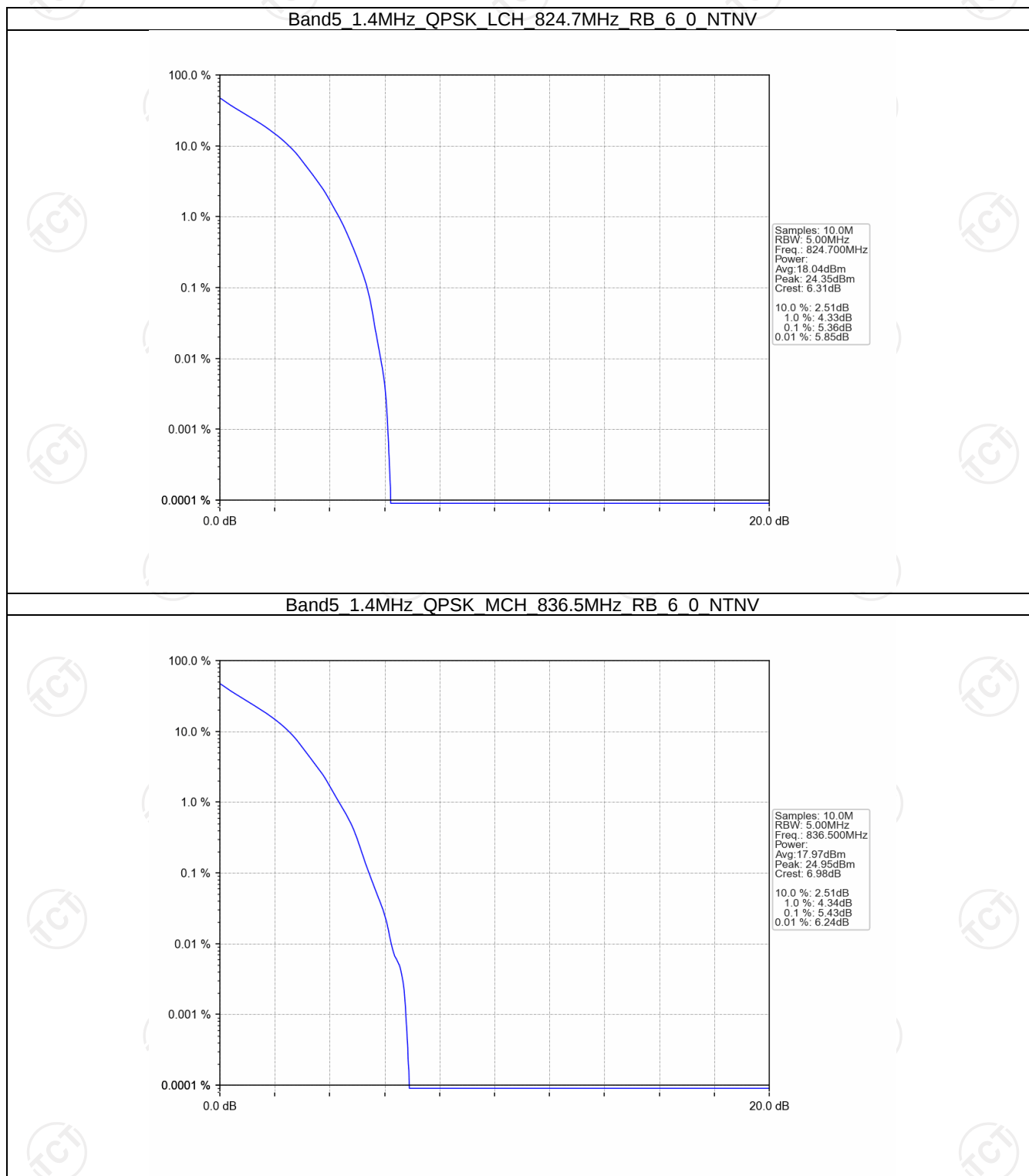
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.54	<=13	Pass
	836.5	50	0	5.56	<=13	Pass
	844	50	0	5.59	<=13	Pass
16QAM	829	50	0	6.25	<=13	Pass
	836.5	50	0	6.28	<=13	Pass

	844	50	0	6.26	<=13	Pass
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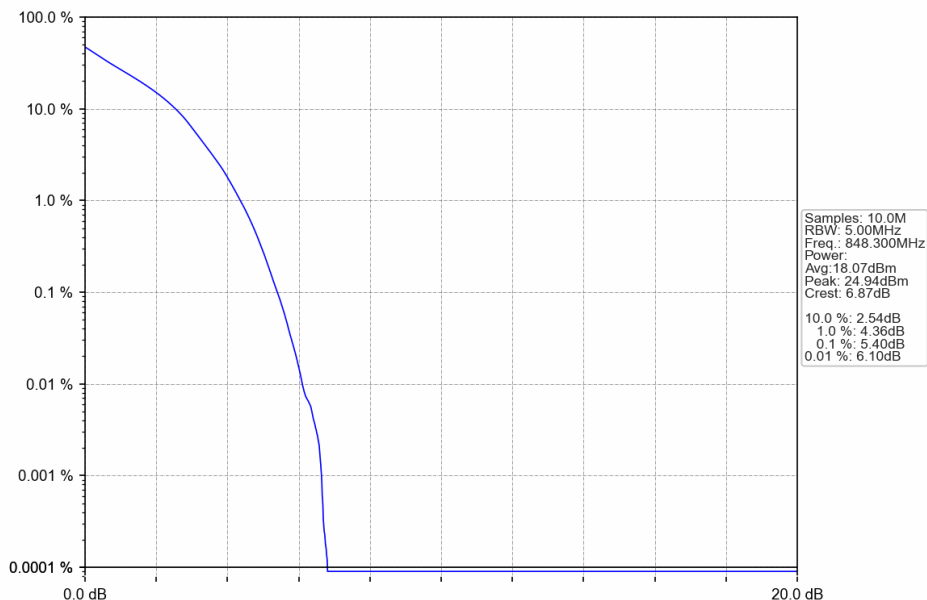


5.2 Test Graph

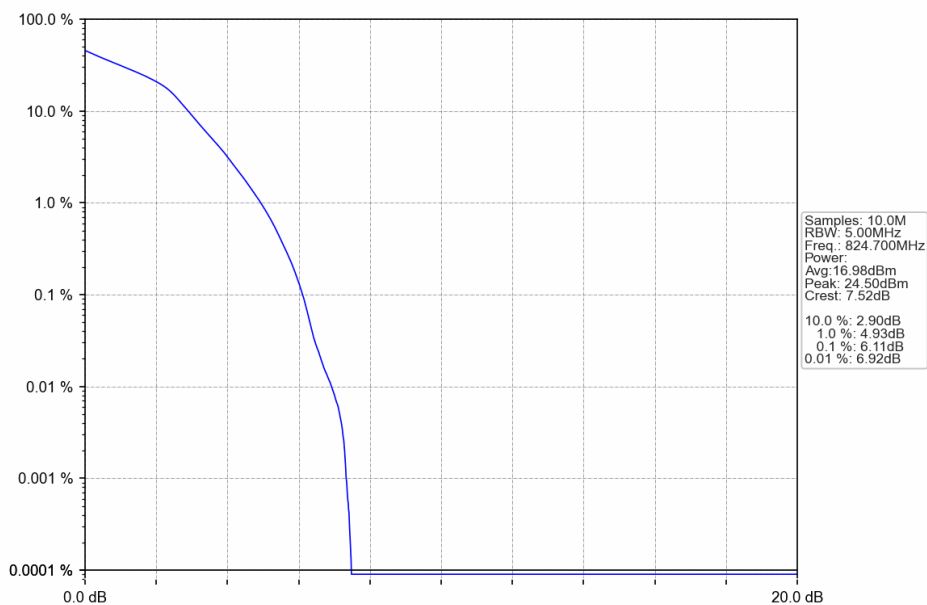
5.2.1 B5_1.4MHz



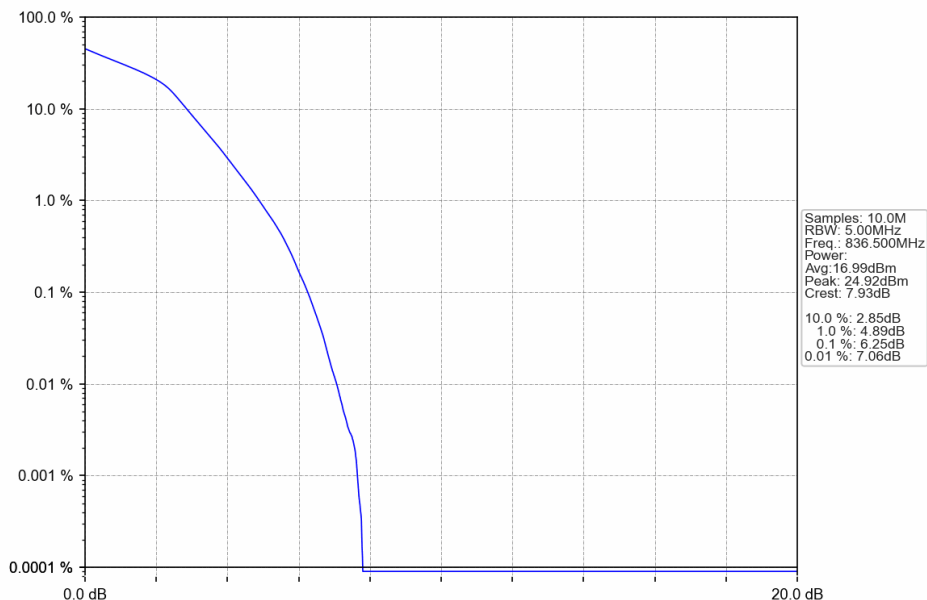
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTNV



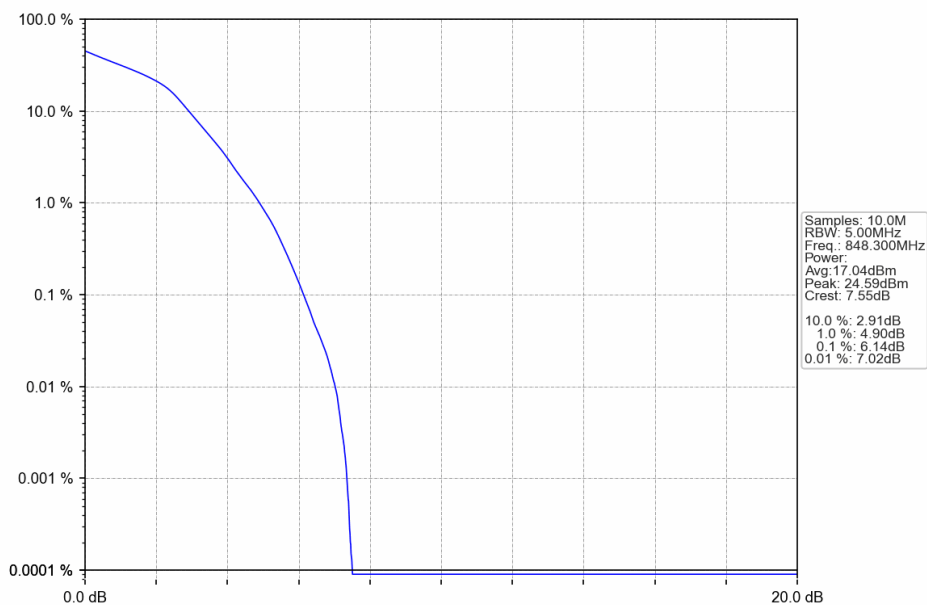
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTNV



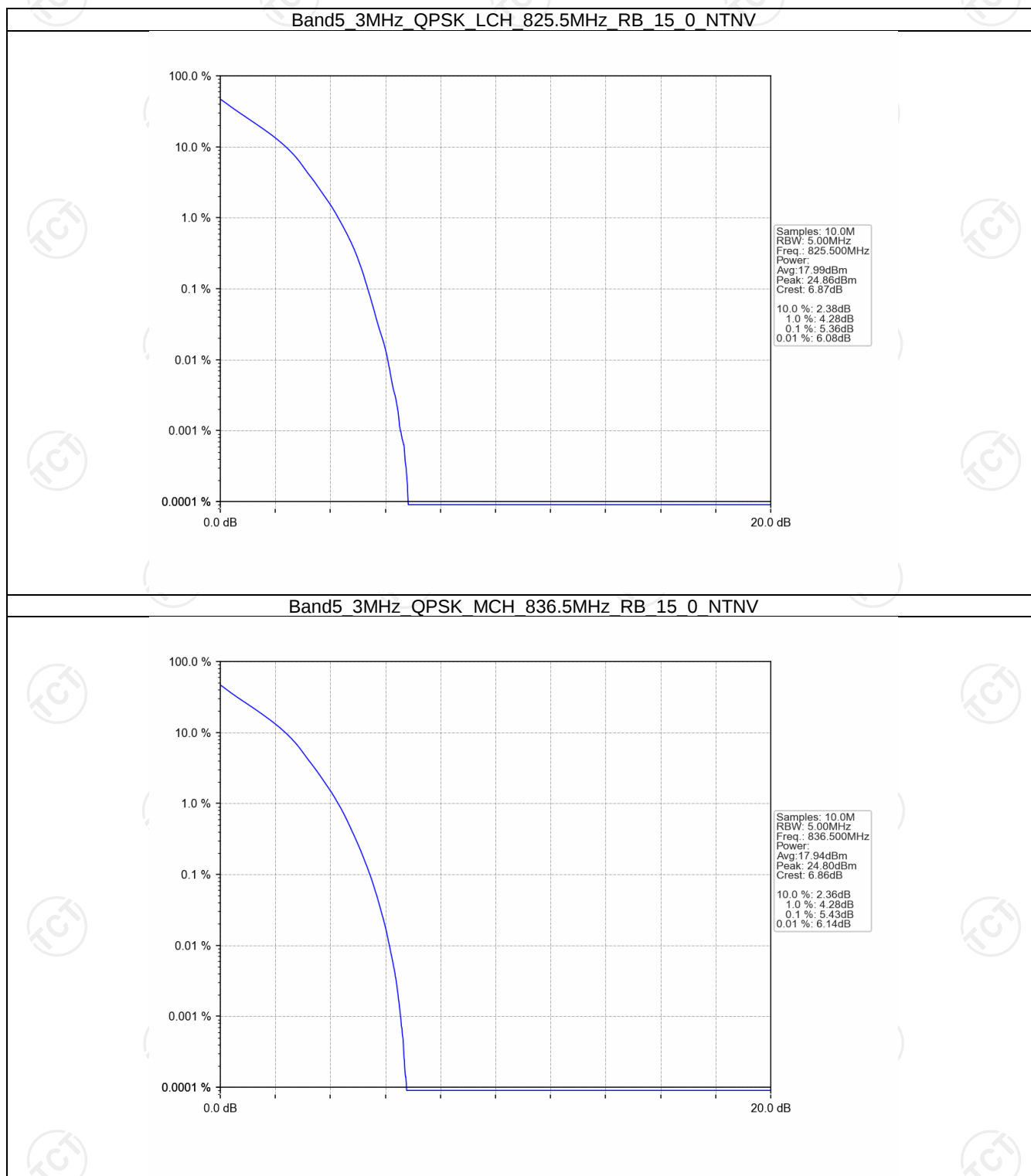
Band5 1.4MHz 16QAM MCH 836.5MHz RB 6 0 NTNV



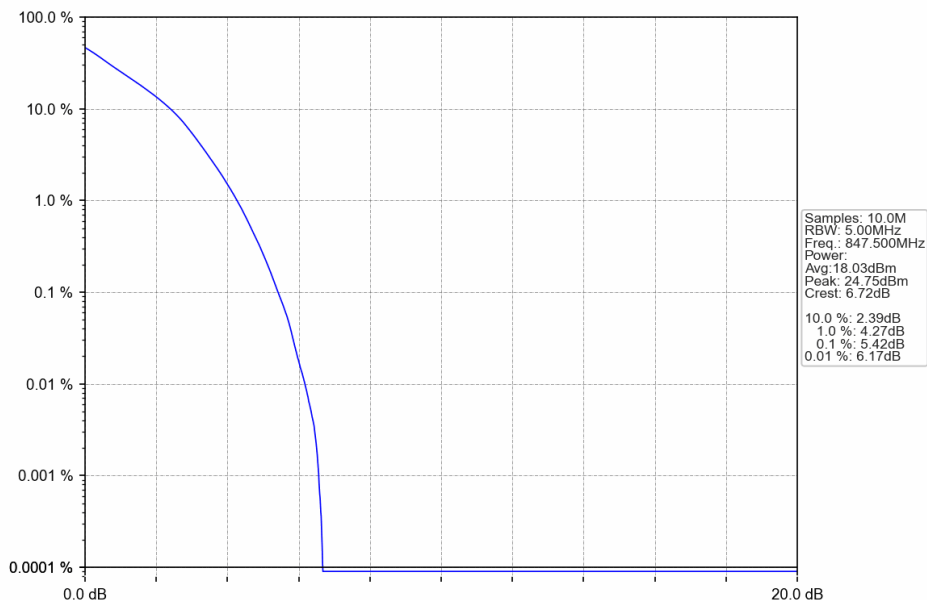
Band5 1.4MHz 16QAM HCH 848.3MHz RB 6 0 NTNV



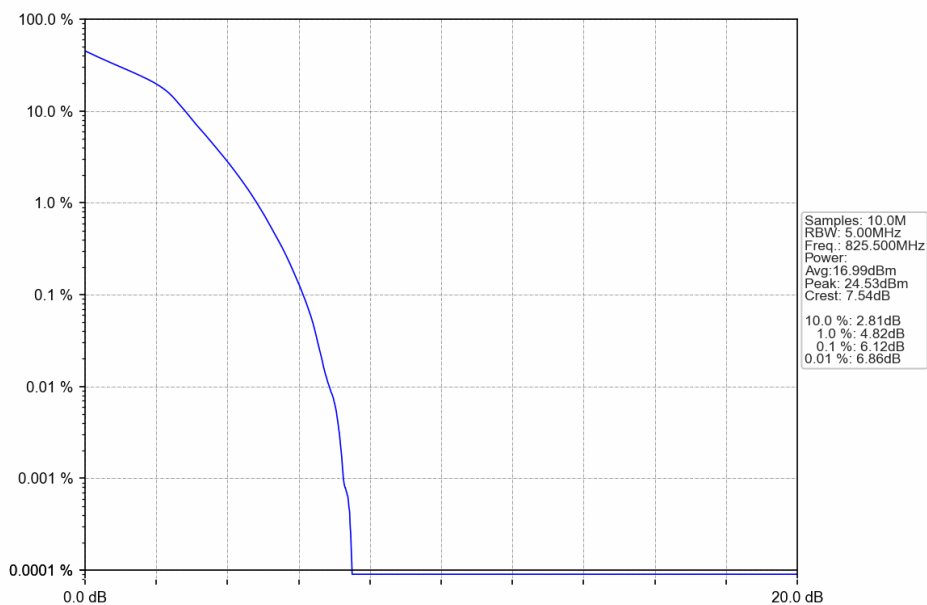
5.2.2 B5_3MHz



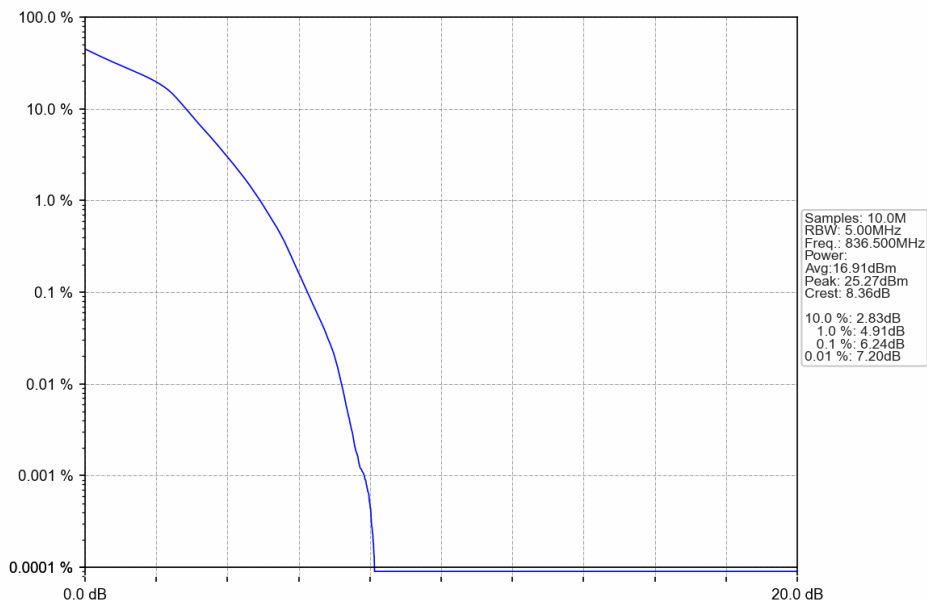
Band5 3MHz QPSK HCH 847.5MHz RB 15 0 NTNV



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

