

Appendix Test Data for LTE_band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	23.23	3.60	26.83	<=30	Pass
			2	23.39	3.60	26.99	<=30	Pass
			5	23.25	3.60	26.85	<=30	Pass
		3	0	23.20	3.60	26.80	<=30	Pass
			2	23.25	3.60	26.85	<=30	Pass
			3	23.22	3.60	26.82	<=30	Pass
		6	0	22.31	3.60	25.91	<=30	Pass
	1732.5	1	0	23.27	3.60	26.87	<=30	Pass
			2	23.38	3.60	26.98	<=30	Pass
			5	23.23	3.60	26.83	<=30	Pass
		3	0	23.39	3.60	26.99	<=30	Pass
			2	23.41	3.60	27.01	<=30	Pass
			3	23.40	3.60	27.00	<=30	Pass
		6	0	22.38	3.60	25.98	<=30	Pass
	1754.3	1	0	23.48	3.60	27.08	<=30	Pass
			2	23.59	3.60	27.19	<=30	Pass
			5	23.49	3.60	27.09	<=30	Pass
		3	0	23.45	3.60	27.05	<=30	Pass
			2	23.46	3.60	27.06	<=30	Pass
			3	23.43	3.60	27.03	<=30	Pass
		6	0	22.55	3.60	26.15	<=30	Pass
16QAM	1710.7	1	0	22.14	3.60	25.74	<=30	Pass
			2	22.24	3.60	25.84	<=30	Pass
			5	22.19	3.60	25.79	<=30	Pass
		3	0	22.19	3.60	25.79	<=30	Pass
			2	22.21	3.60	25.81	<=30	Pass
			3	22.25	3.60	25.85	<=30	Pass
		6	0	21.17	3.60	24.77	<=30	Pass
	1732.5	1	0	22.48	3.60	26.08	<=30	Pass
			2	22.57	3.60	26.17	<=30	Pass
			5	22.46	3.60	26.06	<=30	Pass
		3	0	22.42	3.60	26.02	<=30	Pass
			2	22.39	3.60	25.99	<=30	Pass
			3	22.38	3.60	25.98	<=30	Pass
		6	0	21.38	3.60	24.98	<=30	Pass
	1754.3	1	0	22.33	3.60	25.93	<=30	Pass
			2	22.42	3.60	26.02	<=30	Pass
			5	22.34	3.60	25.94	<=30	Pass
		3	0	22.52	3.60	26.12	<=30	Pass
			2	22.56	3.60	26.16	<=30	Pass
			3	22.53	3.60	26.13	<=30	Pass
		6	0	21.46	3.60	25.06	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.33	3.60	26.93	<=30	Pass
			7	23.48	3.60	27.08	<=30	Pass
			14	23.34	3.60	26.94	<=30	Pass
		8	0	22.30	3.60	25.90	<=30	Pass
			4	22.36	3.60	25.96	<=30	Pass
			7	22.32	3.60	25.92	<=30	Pass
		15	0	22.24	3.60	25.84	<=30	Pass
	1732.5	1	0	22.28	3.60	26.88	<=30	Pass
			7	23.45	3.60	27.05	<=30	Pass
			14	23.26	3.60	26.86	<=30	Pass
		8	0	22.34	3.60	25.94	<=30	Pass
			4	22.36	3.60	25.96	<=30	Pass
			7	22.30	3.60	25.90	<=30	Pass
		15	0	22.33	3.60	25.93	<=30	Pass
	1753.5	1	0	23.45	3.60	27.05	<=30	Pass
			7	23.57	3.60	27.17	<=30	Pass
			14	23.46	3.60	27.06	<=30	Pass
		8	0	22.43	3.60	26.03	<=30	Pass
			4	22.49	3.60	26.09	<=30	Pass
			7	22.46	3.60	26.06	<=30	Pass
		15	0	22.38	3.60	25.98	<=30	Pass
16QAM	1711.5	1	0	22.22	3.60	25.82	<=30	Pass
			7	22.39	3.60	25.99	<=30	Pass
			14	22.22	3.60	25.82	<=30	Pass
		8	0	21.29	3.60	24.89	<=30	Pass
			4	21.35	3.60	24.95	<=30	Pass
			7	21.31	3.60	24.91	<=30	Pass
		15	0	21.26	3.60	24.86	<=30	Pass
	1732.5	1	0	22.51	3.60	26.11	<=30	Pass
			7	22.59	3.60	26.19	<=30	Pass
			14	22.47	3.60	26.07	<=30	Pass
		8	0	21.32	3.60	24.92	<=30	Pass
			4	21.35	3.60	24.95	<=30	Pass
			7	21.30	3.60	24.90	<=30	Pass
		15	0	21.29	3.60	24.89	<=30	Pass
	1753.5	1	0	22.77	3.60	26.37	<=30	Pass
			7	22.89	3.60	26.49	<=30	Pass
			14	22.75	3.60	26.35	<=30	Pass
		8	0	21.48	3.60	25.08	<=30	Pass
			4	21.54	3.60	25.14	<=30	Pass
			7	21.50	3.60	25.10	<=30	Pass
		15	0	21.36	3.60	24.96	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.16	3.60	26.76	<=30	Pass
			13	23.35	3.60	26.95	<=30	Pass
			24	23.21	3.60	26.81	<=30	Pass
		12	0	22.21	3.60	25.81	<=30	Pass
			6	22.29	3.60	25.89	<=30	Pass
			13	22.31	3.60	25.91	<=30	Pass
		25	0	22.24	3.60	25.84	<=30	Pass
	1732.5	1	0	23.16	3.60	26.76	<=30	Pass
			13	23.36	3.60	26.96	<=30	Pass
			24	23.21	3.60	26.81	<=30	Pass
		12	0	22.28	3.60	25.88	<=30	Pass
			6	22.36	3.60	25.96	<=30	Pass
			13	22.32	3.60	25.92	<=30	Pass
		25	0	22.29	3.60	25.89	<=30	Pass
	1752.5	1	0	23.28	3.60	26.88	<=30	Pass
			13	23.49	3.60	27.09	<=30	Pass
			24	23.37	3.60	26.97	<=30	Pass
		12	0	22.34	3.60	25.94	<=30	Pass
			6	22.41	3.60	26.01	<=30	Pass
			13	22.36	3.60	25.96	<=30	Pass
		25	0	22.35	3.60	25.95	<=30	Pass
16QAM	1712.5	1	0	22.16	3.60	25.76	<=30	Pass
			13	22.36	3.60	25.96	<=30	Pass
			24	22.20	3.60	25.80	<=30	Pass
		12	0	21.13	3.60	24.73	<=30	Pass
			6	21.25	3.60	24.85	<=30	Pass
			13	21.24	3.60	24.84	<=30	Pass
		25	0	21.21	3.60	24.81	<=30	Pass
	1732.5	1	0	22.46	3.60	26.06	<=30	Pass
			13	22.59	3.60	26.19	<=30	Pass
			24	22.47	3.60	26.07	<=30	Pass
		12	0	21.35	3.60	24.95	<=30	Pass
			6	21.39	3.60	24.99	<=30	Pass
			13	21.34	3.60	24.94	<=30	Pass
		25	0	21.30	3.60	24.90	<=30	Pass
	1752.5	1	0	22.10	3.60	25.70	<=30	Pass
			13	22.23	3.60	25.83	<=30	Pass
			24	22.10	3.60	25.70	<=30	Pass
		12	0	21.33	3.60	24.93	<=30	Pass
			6	21.35	3.60	24.95	<=30	Pass
			13	21.33	3.60	24.93	<=30	Pass
		25	0	21.34	3.60	24.94	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.30	3.60	26.90	<=30	Pass
			25	23.49	3.60	27.09	<=30	Pass
			49	23.29	3.60	26.89	<=30	Pass
		25	0	22.19	3.60	25.79	<=30	Pass
			13	22.29	3.60	25.89	<=30	Pass
			25	22.33	3.60	25.93	<=30	Pass
		50	0	22.25	3.60	25.85	<=30	Pass
			25	22.22	3.60	26.82	<=30	Pass
			49	23.45	3.60	27.05	<=30	Pass
	1732.5	1	0	23.22	3.60	26.82	<=30	Pass
			25	23.45	3.60	27.05	<=30	Pass
			49	23.27	3.60	26.87	<=30	Pass
		25	0	22.36	3.60	25.96	<=30	Pass
			13	22.32	3.60	25.92	<=30	Pass
			25	22.33	3.60	25.93	<=30	Pass
		50	0	22.34	3.60	25.94	<=30	Pass
			25	22.32	3.60	26.92	<=30	Pass
			49	23.54	3.60	27.14	<=30	Pass
	1750	1	0	23.47	3.60	27.07	<=30	Pass
			25	23.38	3.60	26.98	<=30	Pass
			49	23.35	3.60	26.95	<=30	Pass
		25	0	22.37	3.60	25.97	<=30	Pass
			13	22.35	3.60	25.95	<=30	Pass
			25	22.37	3.60	25.97	<=30	Pass
		50	0	22.35	3.60	25.95	<=30	Pass
			25	22.19	3.60	25.79	<=30	Pass
			49	22.41	3.60	26.01	<=30	Pass
16QAM	1715	1	0	22.28	3.60	25.88	<=30	Pass
			25	22.41	3.60	26.01	<=30	Pass
			49	22.28	3.60	25.88	<=30	Pass
		25	0	21.24	3.60	24.84	<=30	Pass
			13	21.33	3.60	24.93	<=30	Pass
			25	21.38	3.60	24.98	<=30	Pass
		50	0	21.28	3.60	24.88	<=30	Pass
			25	22.41	3.60	26.01	<=30	Pass
			49	22.62	3.60	26.22	<=30	Pass
	1732.5	1	0	22.49	3.60	26.09	<=30	Pass
			25	22.62	3.60	26.22	<=30	Pass
			49	22.49	3.60	26.09	<=30	Pass
		25	0	21.38	3.60	24.98	<=30	Pass
			13	21.39	3.60	24.99	<=30	Pass
			25	21.38	3.60	24.98	<=30	Pass
		50	0	21.38	3.60	24.98	<=30	Pass
			25	22.78	3.60	26.38	<=30	Pass
			49	22.89	3.60	26.49	<=30	Pass
	1750	1	0	22.75	3.60	26.35	<=30	Pass
			25	22.75	3.60	26.35	<=30	Pass
			49	22.75	3.60	26.35	<=30	Pass
		25	0	21.38	3.60	24.98	<=30	Pass
			13	21.37	3.60	24.97	<=30	Pass
			25	21.37	3.60	24.97	<=30	Pass
		50	0	21.42	3.60	25.02	<=30	Pass
			25	21.42	3.60	25.02	<=30	Pass
			49	21.35	3.60	24.95	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.24	3.60	26.84	<=30	Pass
			38	23.33	3.60	26.93	<=30	Pass
			74	23.22	3.60	26.82	<=30	Pass
		36	0	22.37	3.60	25.97	<=30	Pass
			18	22.42	3.60	26.02	<=30	Pass
			39	22.34	3.60	25.94	<=30	Pass
		75	0	22.35	3.60	25.95	<=30	Pass
	1732.5	1	0	23.20	3.60	26.80	<=30	Pass
			38	23.28	3.60	26.88	<=30	Pass
			74	23.22	3.60	26.82	<=30	Pass
		36	0	22.32	3.60	25.92	<=30	Pass
			18	22.38	3.60	25.98	<=30	Pass
			39	22.38	3.60	25.98	<=30	Pass
		75	0	22.38	3.60	25.98	<=30	Pass
	1747.5	1	0	23.22	3.60	26.82	<=30	Pass
			38	23.40	3.60	27.00	<=30	Pass
			74	23.39	3.60	26.99	<=30	Pass
		36	0	22.43	3.60	26.03	<=30	Pass
			18	22.50	3.60	26.10	<=30	Pass
			39	22.51	3.60	26.11	<=30	Pass
		75	0	22.50	3.60	26.10	<=30	Pass
16QAM	1717.5	1	0	22.39	3.60	25.99	<=30	Pass
			38	22.59	3.60	26.19	<=30	Pass
			74	22.54	3.60	26.14	<=30	Pass
		36	0	21.24	3.60	24.84	<=30	Pass
			18	21.31	3.60	24.91	<=30	Pass
			39	21.30	3.60	24.90	<=30	Pass
		75	0	21.28	3.60	24.88	<=30	Pass
	1732.5	1	0	22.40	3.60	26.00	<=30	Pass
			38	22.50	3.60	26.10	<=30	Pass
			74	22.38	3.60	25.98	<=30	Pass
		36	0	21.40	3.60	25.00	<=30	Pass
			18	21.38	3.60	24.98	<=30	Pass
			39	21.41	3.60	25.01	<=30	Pass
		75	0	21.39	3.60	24.99	<=30	Pass
	1747.5	1	0	22.78	3.60	26.38	<=30	Pass
			38	22.83	3.60	26.43	<=30	Pass
			74	22.69	3.60	26.29	<=30	Pass
		36	0	21.38	3.60	24.98	<=30	Pass
			18	21.42	3.60	25.02	<=30	Pass
			39	21.42	3.60	25.02	<=30	Pass
		75	0	21.42	3.60	25.02	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.03	3.60	26.63	<=30	Pass
			50	23.37	3.60	26.97	<=30	Pass
			99	23.04	3.60	26.64	<=30	Pass
		50	0	22.18	3.60	25.78	<=30	Pass
			25	22.25	3.60	25.85	<=30	Pass
			50	22.21	3.60	25.81	<=30	Pass
		100	0	22.21	3.60	25.81	<=30	Pass
			0	23.05	3.60	26.65	<=30	Pass
			50	23.49	3.60	27.09	<=30	Pass
	1732.5	1	99	23.11	3.60	26.71	<=30	Pass
			0	22.36	3.60	25.96	<=30	Pass
			25	22.33	3.60	25.93	<=30	Pass
		50	50	22.27	3.60	25.87	<=30	Pass
			0	22.34	3.60	25.94	<=30	Pass
			0	23.06	3.60	26.66	<=30	Pass
		100	50	23.52	3.60	27.12	<=30	Pass
			99	23.21	3.60	26.81	<=30	Pass
			0	22.31	3.60	25.91	<=30	Pass
16QAM	1720	50	25	22.35	3.60	25.95	<=30	Pass
			50	22.33	3.60	25.93	<=30	Pass
			0	22.34	3.60	25.94	<=30	Pass
		100	0	22.41	3.60	26.01	<=30	Pass
			50	22.86	3.60	26.46	<=30	Pass
			99	22.58	3.60	26.18	<=30	Pass
		100	0	21.14	3.60	24.74	<=30	Pass
			25	21.27	3.60	24.87	<=30	Pass
			50	21.19	3.60	24.79	<=30	Pass
	1732.5	100	0	21.18	3.60	24.78	<=30	Pass
			0	22.26	3.60	25.86	<=30	Pass
			50	22.68	3.60	26.28	<=30	Pass
		100	99	22.32	3.60	25.92	<=30	Pass
			0	21.36	3.60	24.96	<=30	Pass
			25	21.36	3.60	24.96	<=30	Pass
		100	50	21.30	3.60	24.90	<=30	Pass
			0	21.38	3.60	24.98	<=30	Pass
			0	22.35	3.60	25.95	<=30	Pass
	1745	100	50	22.71	3.60	26.31	<=30	Pass
			99	22.36	3.60	25.96	<=30	Pass
			0	21.36	3.60	24.96	<=30	Pass
		100	25	21.37	3.60	24.97	<=30	Pass
			50	21.32	3.60	24.92	<=30	Pass
			0	21.35	3.60	24.95	<=30	Pass
		100	0	21.35	3.60	24.95	<=30	Pass
			0	21.35	3.60	24.95	<=30	Pass
			0	21.35	3.60	24.95	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	102	-1.445	-0.0008	-2.5 to 2.5	Pass
					120	-1.245	-0.0007	-2.5 to 2.5	Pass
					138	-7.010	-0.0041	-2.5 to 2.5	Pass
				-30	120	-0.887	-0.0005	-2.5 to 2.5	Pass
				-20	120	-6.866	-0.0040	-2.5 to 2.5	Pass
				-10	120	-8.225	-0.0048	-2.5 to 2.5	Pass
				0	120	-4.420	-0.0026	-2.5 to 2.5	Pass
				10	120	-8.698	-0.0051	-2.5 to 2.5	Pass
				30	120	-3.176	-0.0019	-2.5 to 2.5	Pass
				40	120	-3.262	-0.0019	-2.5 to 2.5	Pass
				50	120	-4.992	-0.0029	-2.5 to 2.5	Pass
	1732.5	6	0	20	102	-3.247	-0.0019	-2.5 to 2.5	Pass
					120	-0.358	-0.0002	-2.5 to 2.5	Pass
					138	-6.051	-0.0035	-2.5 to 2.5	Pass
				-30	120	-15.521	-0.0090	-2.5 to 2.5	Pass
				-20	120	-5.350	-0.0031	-2.5 to 2.5	Pass
				-10	120	-9.570	-0.0055	-2.5 to 2.5	Pass
				0	120	-10.614	-0.0061	-2.5 to 2.5	Pass
				10	120	-3.419	-0.0020	-2.5 to 2.5	Pass
				30	120	0.243	0.0001	-2.5 to 2.5	Pass
				40	120	-3.834	-0.0022	-2.5 to 2.5	Pass
				50	120	-5.107	-0.0029	-2.5 to 2.5	Pass
	1754.3	6	0	20	102	-10.099	-0.0058	-2.5 to 2.5	Pass
					120	-4.392	-0.0025	-2.5 to 2.5	Pass
					138	-1.731	-0.0010	-2.5 to 2.5	Pass
				-30	120	-4.077	-0.0023	-2.5 to 2.5	Pass
				-20	120	1.588	0.0009	-2.5 to 2.5	Pass
				-10	120	-6.008	-0.0034	-2.5 to 2.5	Pass
				0	120	-5.722	-0.0033	-2.5 to 2.5	Pass
				10	120	-8.712	-0.0050	-2.5 to 2.5	Pass
				30	120	-11.015	-0.0063	-2.5 to 2.5	Pass
				40	120	-9.170	-0.0052	-2.5 to 2.5	Pass
				50	120	-15.292	-0.0087	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	102	-6.251	-0.0037	-2.5 to 2.5	Pass
					120	-4.535	-0.0027	-2.5 to 2.5	Pass
					138	-7.482	-0.0044	-2.5 to 2.5	Pass
				-30	120	-3.619	-0.0021	-2.5 to 2.5	Pass
				-20	120	-6.981	-0.0041	-2.5 to 2.5	Pass
				-10	120	-10.314	-0.0060	-2.5 to 2.5	Pass
				0	120	-9.069	-0.0053	-2.5 to 2.5	Pass
				10	120	-7.339	-0.0043	-2.5 to 2.5	Pass
				30	120	-6.266	-0.0037	-2.5 to 2.5	Pass
				40	120	-6.423	-0.0038	-2.5 to 2.5	Pass
				50	120	-7.124	-0.0042	-2.5 to 2.5	Pass
	1732.5	6	0	20	102	-0.272	-0.0002	-2.5 to 2.5	Pass
					120	0.257	0.0001	-2.5 to 2.5	Pass
					138	-0.987	-0.0006	-2.5 to 2.5	Pass
				-30	120	-3.161	-0.0018	-2.5 to 2.5	Pass
				-20	120	-8.869	-0.0051	-2.5 to 2.5	Pass
				-10	120	-5.865	-0.0034	-2.5 to 2.5	Pass

				0	120	-0.873	-0.0005	-2.5 to 2.5	Pass
				10	120	-10.700	-0.0062	-2.5 to 2.5	Pass
				30	120	-2.875	-0.0017	-2.5 to 2.5	Pass
				40	120	-7.038	-0.0041	-2.5 to 2.5	Pass
				50	120	-5.050	-0.0029	-2.5 to 2.5	Pass
	1754.3	6	0	20	102	-3.662	-0.0021	-2.5 to 2.5	Pass
					120	-2.661	-0.0015	-2.5 to 2.5	Pass
					138	-7.625	-0.0043	-2.5 to 2.5	Pass
				-30	120	-2.489	-0.0014	-2.5 to 2.5	Pass
				-20	120	-10.314	-0.0059	-2.5 to 2.5	Pass
				-10	120	1.173	0.0007	-2.5 to 2.5	Pass
				0	120	1.030	0.0006	-2.5 to 2.5	Pass
				10	120	-5.894	-0.0034	-2.5 to 2.5	Pass
				30	120	-7.925	-0.0045	-2.5 to 2.5	Pass
				40	120	-2.089	-0.0012	-2.5 to 2.5	Pass
				50	120	-15.764	-0.0090	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	102	-2.375	-0.0014	-2.5 to 2.5	Pass
					120	-5.565	-0.0033	-2.5 to 2.5	Pass
					138	-4.177	-0.0024	-2.5 to 2.5	Pass
				-30	120	-1.245	-0.0007	-2.5 to 2.5	Pass
				-20	120	-9.742	-0.0057	-2.5 to 2.5	Pass
				-10	120	-4.492	-0.0026	-2.5 to 2.5	Pass
				0	120	-5.164	-0.0030	-2.5 to 2.5	Pass
				10	120	-7.052	-0.0041	-2.5 to 2.5	Pass
				30	120	-6.866	-0.0040	-2.5 to 2.5	Pass
				40	120	-6.580	-0.0038	-2.5 to 2.5	Pass
	1732.5	15	0	20	102	-0.415	-0.0002	-2.5 to 2.5	Pass
					120	-3.734	-0.0022	-2.5 to 2.5	Pass
					138	-7.582	-0.0044	-2.5 to 2.5	Pass
				-30	120	-3.047	-0.0018	-2.5 to 2.5	Pass
				-20	120	-3.819	-0.0022	-2.5 to 2.5	Pass
				-10	120	-6.037	-0.0035	-2.5 to 2.5	Pass
				-10	120	-7.753	-0.0045	-2.5 to 2.5	Pass
				0	120	-0.644	-0.0004	-2.5 to 2.5	Pass
				10	120	-7.753	-0.0045	-2.5 to 2.5	Pass
				30	120	-9.084	-0.0052	-2.5 to 2.5	Pass
	1753.5	15	0	20	102	-4.935	-0.0028	-2.5 to 2.5	Pass
					120	-3.963	-0.0023	-2.5 to 2.5	Pass
					138	-3.905	-0.0022	-2.5 to 2.5	Pass
				-30	120	-2.260	-0.0013	-2.5 to 2.5	Pass
				-20	120	-6.065	-0.0035	-2.5 to 2.5	Pass
				-10	120	-12.116	-0.0069	-2.5 to 2.5	Pass
				-20	120	-4.377	-0.0025	-2.5 to 2.5	Pass
				-10	120	-8.869	-0.0051	-2.5 to 2.5	Pass
				0	120	2.260	0.0013	-2.5 to 2.5	Pass
				10	120	2.317	0.0013	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	102	-3.848	-0.0022	-2.5 to 2.5	Pass
					120	-5.307	-0.0030	-2.5 to 2.5	Pass
					138	-5.221	-0.0030	-2.5 to 2.5	Pass

				-30	120	-5.751	-0.0034	-2.5 to 2.5	Pass
				-20	120	-6.852	-0.0040	-2.5 to 2.5	Pass
				-10	120	-3.390	-0.0020	-2.5 to 2.5	Pass
				0	120	-5.007	-0.0029	-2.5 to 2.5	Pass
				10	120	-2.704	-0.0016	-2.5 to 2.5	Pass
				30	120	-2.346	-0.0014	-2.5 to 2.5	Pass
				40	120	-11.158	-0.0065	-2.5 to 2.5	Pass
				50	120	0.000	0.0000	-2.5 to 2.5	Pass
	1732.5	15	0	20	102	-7.167	-0.0041	-2.5 to 2.5	Pass
					120	-0.644	-0.0004	-2.5 to 2.5	Pass
					138	-5.665	-0.0033	-2.5 to 2.5	Pass
				-30	120	1.674	0.0010	-2.5 to 2.5	Pass
				-20	120	2.990	0.0017	-2.5 to 2.5	Pass
				-10	120	5.207	0.0030	-2.5 to 2.5	Pass
				0	120	-1.488	-0.0009	-2.5 to 2.5	Pass
				10	120	-4.749	-0.0027	-2.5 to 2.5	Pass
				30	120	-2.890	-0.0017	-2.5 to 2.5	Pass
				40	120	1.960	0.0011	-2.5 to 2.5	Pass
				50	120	0.358	0.0002	-2.5 to 2.5	Pass
	1753.5	15	0	20	102	-6.566	-0.0037	-2.5 to 2.5	Pass
					120	-0.243	-0.0001	-2.5 to 2.5	Pass
					138	-0.186	-0.0001	-2.5 to 2.5	Pass
				-30	120	-10.271	-0.0059	-2.5 to 2.5	Pass
				-20	120	-3.791	-0.0022	-2.5 to 2.5	Pass
				-10	120	-12.732	-0.0073	-2.5 to 2.5	Pass
				0	120	-2.475	-0.0014	-2.5 to 2.5	Pass
				10	120	-13.089	-0.0075	-2.5 to 2.5	Pass
				30	120	-12.345	-0.0070	-2.5 to 2.5	Pass
				40	120	-4.320	-0.0025	-2.5 to 2.5	Pass
				50	120	-8.855	-0.0050	-2.5 to 2.5	Pass

2.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	102	-8.311	-0.0049	-2.5 to 2.5	Pass
					120	-4.821	-0.0028	-2.5 to 2.5	Pass
					138	-0.043	0.0000	-2.5 to 2.5	Pass
				-30	120	-4.077	-0.0024	-2.5 to 2.5	Pass
				-20	120	-2.460	-0.0014	-2.5 to 2.5	Pass
				-10	120	-0.315	-0.0002	-2.5 to 2.5	Pass
				0	120	0.973	0.0006	-2.5 to 2.5	Pass
				10	120	-7.782	-0.0045	-2.5 to 2.5	Pass
				30	120	0.644	0.0004	-2.5 to 2.5	Pass
				40	120	-3.505	-0.0020	-2.5 to 2.5	Pass
				50	120	-6.351	-0.0037	-2.5 to 2.5	Pass
	1732.5	25	0	20	102	-6.881	-0.0040	-2.5 to 2.5	Pass
					120	-4.048	-0.0023	-2.5 to 2.5	Pass
					138	-6.280	-0.0036	-2.5 to 2.5	Pass
				-30	120	-7.839	-0.0045	-2.5 to 2.5	Pass
				-20	120	-8.154	-0.0047	-2.5 to 2.5	Pass
				-10	120	-7.839	-0.0045	-2.5 to 2.5	Pass
				0	120	-1.802	-0.0010	-2.5 to 2.5	Pass
				10	120	-4.220	-0.0024	-2.5 to 2.5	Pass
				30	120	-7.968	-0.0046	-2.5 to 2.5	Pass
				40	120	-2.003	-0.0012	-2.5 to 2.5	Pass
				50	120	-4.978	-0.0029	-2.5 to 2.5	Pass

	1752.5	25	0	20	102	-4.950	-0.0028	-2.5 to 2.5	Pass
					120	-6.695	-0.0038	-2.5 to 2.5	Pass
					138	-3.920	-0.0022	-2.5 to 2.5	Pass
				-30	120	-5.450	-0.0031	-2.5 to 2.5	Pass
				-20	120	1.116	0.0006	-2.5 to 2.5	Pass
				-10	120	-3.490	-0.0020	-2.5 to 2.5	Pass
				0	120	0.644	0.0004	-2.5 to 2.5	Pass
				10	120	-7.524	-0.0043	-2.5 to 2.5	Pass
				30	120	1.616	0.0009	-2.5 to 2.5	Pass
				40	120	-9.298	-0.0053	-2.5 to 2.5	Pass
				50	120	-4.964	-0.0028	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	102	-5.250	-0.0031	-2.5 to 2.5	Pass
					120	-7.339	-0.0043	-2.5 to 2.5	Pass
					138	-6.266	-0.0037	-2.5 to 2.5	Pass
				-30	120	-2.203	-0.0013	-2.5 to 2.5	Pass
				-20	120	-4.478	-0.0026	-2.5 to 2.5	Pass
				-10	120	-1.874	-0.0011	-2.5 to 2.5	Pass
				0	120	-2.604	-0.0015	-2.5 to 2.5	Pass
				10	120	-9.599	-0.0056	-2.5 to 2.5	Pass
				30	120	-0.529	-0.0003	-2.5 to 2.5	Pass
				40	120	-1.202	-0.0007	-2.5 to 2.5	Pass
				50	120	-4.778	-0.0028	-2.5 to 2.5	Pass
	1732.5	25	0	20	102	-4.849	-0.0028	-2.5 to 2.5	Pass
					120	-8.054	-0.0046	-2.5 to 2.5	Pass
					138	-10.257	-0.0059	-2.5 to 2.5	Pass
				-30	120	-6.509	-0.0038	-2.5 to 2.5	Pass
				-20	120	-5.851	-0.0034	-2.5 to 2.5	Pass
				-10	120	1.845	0.0011	-2.5 to 2.5	Pass
				0	120	0.501	0.0003	-2.5 to 2.5	Pass
				10	120	2.933	0.0017	-2.5 to 2.5	Pass
				30	120	-5.221	-0.0030	-2.5 to 2.5	Pass
				40	120	1.059	0.0006	-2.5 to 2.5	Pass
				50	120	0.458	0.0003	-2.5 to 2.5	Pass
	1752.5	25	0	20	102	-11.573	-0.0066	-2.5 to 2.5	Pass
					120	-1.988	-0.0011	-2.5 to 2.5	Pass
					138	-0.343	-0.0002	-2.5 to 2.5	Pass
				-30	120	-13.604	-0.0078	-2.5 to 2.5	Pass
				-20	120	-8.125	-0.0046	-2.5 to 2.5	Pass
				-10	120	0.758	0.0004	-2.5 to 2.5	Pass
				0	120	-9.642	-0.0055	-2.5 to 2.5	Pass
				10	120	-10.314	-0.0059	-2.5 to 2.5	Pass
				30	120	-7.524	-0.0043	-2.5 to 2.5	Pass
				40	120	-4.463	-0.0025	-2.5 to 2.5	Pass
				50	120	-14.205	-0.0081	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	102	-6.166	-0.0036	-2.5 to 2.5	Pass
					120	-2.332	-0.0014	-2.5 to 2.5	Pass
					138	-8.712	-0.0051	-2.5 to 2.5	Pass
				-30	120	-4.077	-0.0024	-2.5 to 2.5	Pass
				-20	120	-7.811	-0.0046	-2.5 to 2.5	Pass
				-10	120	-5.679	-0.0033	-2.5 to 2.5	Pass
				0	120	-5.965	-0.0035	-2.5 to 2.5	Pass
				10	120	-2.933	-0.0017	-2.5 to 2.5	Pass

				30	120	-6.337	-0.0037	-2.5 to 2.5	Pass
				40	120	-7.539	-0.0044	-2.5 to 2.5	Pass
				50	120	-6.337	-0.0037	-2.5 to 2.5	Pass
	1732.5	50	0	20	102	-2.389	-0.0014	-2.5 to 2.5	Pass
					120	-3.548	-0.0020	-2.5 to 2.5	Pass
					138	-5.794	-0.0033	-2.5 to 2.5	Pass
				-30	120	-1.559	-0.0009	-2.5 to 2.5	Pass
				-20	120	-2.775	-0.0016	-2.5 to 2.5	Pass
				-10	120	-3.448	-0.0020	-2.5 to 2.5	Pass
				0	120	-5.765	-0.0033	-2.5 to 2.5	Pass
				10	120	1.674	0.0010	-2.5 to 2.5	Pass
				30	120	-6.151	-0.0036	-2.5 to 2.5	Pass
				40	120	-5.822	-0.0034	-2.5 to 2.5	Pass
				50	120	-9.184	-0.0053	-2.5 to 2.5	Pass
	1750	50	0	20	102	-6.194	-0.0035	-2.5 to 2.5	Pass
					120	2.389	0.0014	-2.5 to 2.5	Pass
					138	-2.232	-0.0013	-2.5 to 2.5	Pass
				-30	120	-6.580	-0.0038	-2.5 to 2.5	Pass
				-20	120	-9.413	-0.0054	-2.5 to 2.5	Pass
				-10	120	-7.582	-0.0043	-2.5 to 2.5	Pass
				0	120	-7.682	-0.0044	-2.5 to 2.5	Pass
				10	120	-1.016	-0.0006	-2.5 to 2.5	Pass
				30	120	-2.432	-0.0014	-2.5 to 2.5	Pass
				40	120	3.176	0.0018	-2.5 to 2.5	Pass
				50	120	-10.757	-0.0061	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	102	-2.532	-0.0015	-2.5 to 2.5	Pass
					120	-3.290	-0.0019	-2.5 to 2.5	Pass
					138	-4.735	-0.0028	-2.5 to 2.5	Pass
				-30	120	-6.351	-0.0037	-2.5 to 2.5	Pass
				-20	120	-2.761	-0.0016	-2.5 to 2.5	Pass
				-10	120	-3.018	-0.0018	-2.5 to 2.5	Pass
				0	120	-5.879	-0.0034	-2.5 to 2.5	Pass
				10	120	-8.655	-0.0050	-2.5 to 2.5	Pass
				30	120	-8.612	-0.0050	-2.5 to 2.5	Pass
				40	120	-3.934	-0.0023	-2.5 to 2.5	Pass
				50	120	-6.695	-0.0039	-2.5 to 2.5	Pass
	1732.5	50	0	20	102	-6.123	-0.0035	-2.5 to 2.5	Pass
					120	-2.589	-0.0015	-2.5 to 2.5	Pass
					138	-5.021	-0.0029	-2.5 to 2.5	Pass
				-30	120	-5.708	-0.0033	-2.5 to 2.5	Pass
				-20	120	-6.795	-0.0039	-2.5 to 2.5	Pass
				-10	120	-4.020	-0.0023	-2.5 to 2.5	Pass
				0	120	0.887	0.0005	-2.5 to 2.5	Pass
				10	120	0.887	0.0005	-2.5 to 2.5	Pass
				30	120	-1.945	-0.0011	-2.5 to 2.5	Pass
				40	120	-9.098	-0.0053	-2.5 to 2.5	Pass
				50	120	-7.696	-0.0044	-2.5 to 2.5	Pass
	1750	50	0	20	102	-5.851	-0.0033	-2.5 to 2.5	Pass
					120	-5.693	-0.0033	-2.5 to 2.5	Pass
					138	-1.831	-0.0010	-2.5 to 2.5	Pass
				-30	120	-3.719	-0.0021	-2.5 to 2.5	Pass
				-20	120	-3.605	-0.0021	-2.5 to 2.5	Pass
				-10	120	-3.190	-0.0018	-2.5 to 2.5	Pass
				0	120	1.602	0.0009	-2.5 to 2.5	Pass
				10	120	-4.506	-0.0026	-2.5 to 2.5	Pass
				30	120	-1.044	-0.0006	-2.5 to 2.5	Pass
				40	120	-5.622	-0.0032	-2.5 to 2.5	Pass
				50	120	-1.388	-0.0008	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	102	-3.877	-0.0023	-2.5 to 2.5	Pass
					120	-3.834	-0.0022	-2.5 to 2.5	Pass
					138	-7.167	-0.0042	-2.5 to 2.5	Pass
				-30	120	-8.097	-0.0047	-2.5 to 2.5	Pass
				-20	120	-4.263	-0.0025	-2.5 to 2.5	Pass
				-10	120	-10.057	-0.0059	-2.5 to 2.5	Pass
				0	120	-1.030	-0.0006	-2.5 to 2.5	Pass
				10	120	-7.110	-0.0041	-2.5 to 2.5	Pass
				30	120	-7.124	-0.0041	-2.5 to 2.5	Pass
				40	120	-8.698	-0.0051	-2.5 to 2.5	Pass
				50	120	-8.998	-0.0052	-2.5 to 2.5	Pass
	1732.5	75	0	20	102	-3.219	-0.0019	-2.5 to 2.5	Pass
					120	-8.483	-0.0049	-2.5 to 2.5	Pass
					138	-5.193	-0.0030	-2.5 to 2.5	Pass
				-30	120	-2.847	-0.0016	-2.5 to 2.5	Pass
				-20	120	-2.275	-0.0013	-2.5 to 2.5	Pass
				-10	120	-4.921	-0.0028	-2.5 to 2.5	Pass
				0	120	-3.605	-0.0021	-2.5 to 2.5	Pass
				10	120	-0.787	-0.0005	-2.5 to 2.5	Pass
				30	120	-5.493	-0.0032	-2.5 to 2.5	Pass
				40	120	-7.539	-0.0044	-2.5 to 2.5	Pass
				50	120	-7.410	-0.0043	-2.5 to 2.5	Pass
	1747.5	75	0	20	102	-5.965	-0.0034	-2.5 to 2.5	Pass
					120	1.273	0.0007	-2.5 to 2.5	Pass
					138	-8.397	-0.0048	-2.5 to 2.5	Pass
				-30	120	-8.955	-0.0051	-2.5 to 2.5	Pass
				-20	120	-7.524	-0.0043	-2.5 to 2.5	Pass
				-10	120	-7.253	-0.0042	-2.5 to 2.5	Pass
				0	120	0.000	0.0000	-2.5 to 2.5	Pass
				10	120	-4.463	-0.0026	-2.5 to 2.5	Pass
				30	120	-4.134	-0.0024	-2.5 to 2.5	Pass
				40	120	-4.821	-0.0028	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	102	-7.482	-0.0044	-2.5 to 2.5	Pass
					120	-11.902	-0.0069	-2.5 to 2.5	Pass
					138	-6.952	-0.0040	-2.5 to 2.5	Pass
				-30	120	-5.422	-0.0032	-2.5 to 2.5	Pass
				-20	120	-6.437	-0.0037	-2.5 to 2.5	Pass
				-10	120	-5.493	-0.0032	-2.5 to 2.5	Pass
				0	120	-5.679	-0.0033	-2.5 to 2.5	Pass
				10	120	-5.751	-0.0033	-2.5 to 2.5	Pass
				30	120	-4.220	-0.0025	-2.5 to 2.5	Pass
				40	120	-7.482	-0.0044	-2.5 to 2.5	Pass
				50	120	-3.076	-0.0018	-2.5 to 2.5	Pass
	1732.5	75	0	20	102	-11.187	-0.0065	-2.5 to 2.5	Pass
					120	-5.178	-0.0030	-2.5 to 2.5	Pass
					138	-5.436	-0.0031	-2.5 to 2.5	Pass
				-30	120	-4.892	-0.0028	-2.5 to 2.5	Pass
				-20	120	-3.347	-0.0019	-2.5 to 2.5	Pass
				-10	120	-0.944	-0.0005	-2.5 to 2.5	Pass
				0	120	-6.337	-0.0037	-2.5 to 2.5	Pass
				10	120	-7.424	-0.0043	-2.5 to 2.5	Pass
				30	120	-8.354	-0.0048	-2.5 to 2.5	Pass
				40	120	-4.549	-0.0026	-2.5 to 2.5	Pass
				50	120	0.772	0.0004	-2.5 to 2.5	Pass

	1747.5	75	0	20	102	-5.279	-0.0030	-2.5 to 2.5	Pass
					120	-4.120	-0.0024	-2.5 to 2.5	Pass
					138	-4.435	-0.0025	-2.5 to 2.5	Pass
				-30	120	-4.792	-0.0027	-2.5 to 2.5	Pass
				-20	120	-5.436	-0.0031	-2.5 to 2.5	Pass
				-10	120	-4.749	-0.0027	-2.5 to 2.5	Pass
				0	120	-3.490	-0.0020	-2.5 to 2.5	Pass
				10	120	-6.094	-0.0035	-2.5 to 2.5	Pass
				30	120	-7.138	-0.0041	-2.5 to 2.5	Pass
				40	120	-0.644	-0.0004	-2.5 to 2.5	Pass
				50	120	-11.172	-0.0064	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	102	-10.242	-0.0060	-2.5 to 2.5	Pass
					120	-4.964	-0.0029	-2.5 to 2.5	Pass
					138	-2.904	-0.0017	-2.5 to 2.5	Pass
				-30	120	-0.415	-0.0002	-2.5 to 2.5	Pass
				-20	120	-3.290	-0.0019	-2.5 to 2.5	Pass
				-10	120	-4.892	-0.0028	-2.5 to 2.5	Pass
				0	120	-4.463	-0.0026	-2.5 to 2.5	Pass
				10	120	-5.751	-0.0033	-2.5 to 2.5	Pass
				30	120	-2.890	-0.0017	-2.5 to 2.5	Pass
				40	120	-6.580	-0.0038	-2.5 to 2.5	Pass
				50	120	-5.679	-0.0033	-2.5 to 2.5	Pass
	1732.5	100	0	20	102	-2.074	-0.0012	-2.5 to 2.5	Pass
					120	-7.639	-0.0044	-2.5 to 2.5	Pass
					138	-7.253	-0.0042	-2.5 to 2.5	Pass
				-30	120	-7.954	-0.0046	-2.5 to 2.5	Pass
				-20	120	-9.084	-0.0052	-2.5 to 2.5	Pass
				-10	120	0.286	0.0002	-2.5 to 2.5	Pass
				0	120	-3.791	-0.0022	-2.5 to 2.5	Pass
				10	120	-4.234	-0.0024	-2.5 to 2.5	Pass
				30	120	-1.817	-0.0010	-2.5 to 2.5	Pass
				40	120	-1.817	-0.0010	-2.5 to 2.5	Pass
				50	120	-1.688	-0.0010	-2.5 to 2.5	Pass
	1745	100	0	20	102	-2.890	-0.0017	-2.5 to 2.5	Pass
					120	-1.173	-0.0007	-2.5 to 2.5	Pass
					138	-4.091	-0.0023	-2.5 to 2.5	Pass
				-30	120	-5.550	-0.0032	-2.5 to 2.5	Pass
				-20	120	-5.250	-0.0030	-2.5 to 2.5	Pass
				-10	120	-4.048	-0.0023	-2.5 to 2.5	Pass
				0	120	-5.178	-0.0030	-2.5 to 2.5	Pass
				10	120	-7.267	-0.0042	-2.5 to 2.5	Pass
				30	120	-2.489	-0.0014	-2.5 to 2.5	Pass
				40	120	-8.941	-0.0051	-2.5 to 2.5	Pass
				50	120	-8.254	-0.0047	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	102	-6.251	-0.0036	-2.5 to 2.5	Pass
					120	-4.163	-0.0024	-2.5 to 2.5	Pass
					138	-5.536	-0.0032	-2.5 to 2.5	Pass
				-30	120	-0.730	-0.0004	-2.5 to 2.5	Pass
				-20	120	-5.922	-0.0034	-2.5 to 2.5	Pass
				-10	120	-3.176	-0.0018	-2.5 to 2.5	Pass
				0	120	-4.635	-0.0027	-2.5 to 2.5	Pass
				10	120	-5.622	-0.0033	-2.5 to 2.5	Pass

				30	120	-3.448	-0.0020	-2.5 to 2.5	Pass
				40	120	-7.124	-0.0041	-2.5 to 2.5	Pass
				50	120	-3.605	-0.0021	-2.5 to 2.5	Pass
	1732.5	100	0	20	102	-5.922	-0.0034	-2.5 to 2.5	Pass
					120	-4.749	-0.0027	-2.5 to 2.5	Pass
					138	-9.584	-0.0055	-2.5 to 2.5	Pass
				-30	120	-8.826	-0.0051	-2.5 to 2.5	Pass
				-20	120	-8.082	-0.0047	-2.5 to 2.5	Pass
				-10	120	-9.198	-0.0053	-2.5 to 2.5	Pass
				0	120	-8.082	-0.0047	-2.5 to 2.5	Pass
				10	120	-5.035	-0.0029	-2.5 to 2.5	Pass
				30	120	-5.822	-0.0034	-2.5 to 2.5	Pass
				40	120	-2.532	-0.0015	-2.5 to 2.5	Pass
				50	120	-4.463	-0.0026	-2.5 to 2.5	Pass
	1745	100	0	20	102	-1.202	-0.0007	-2.5 to 2.5	Pass
					120	-4.778	-0.0027	-2.5 to 2.5	Pass
					138	-4.249	-0.0024	-2.5 to 2.5	Pass
				-30	120	-5.522	-0.0032	-2.5 to 2.5	Pass
				-20	120	-7.782	-0.0045	-2.5 to 2.5	Pass
				-10	120	-0.486	-0.0003	-2.5 to 2.5	Pass
				0	120	-4.420	-0.0025	-2.5 to 2.5	Pass
				10	120	-8.068	-0.0046	-2.5 to 2.5	Pass
				30	120	-0.315	-0.0002	-2.5 to 2.5	Pass
				40	120	-1.259	-0.0007	-2.5 to 2.5	Pass
				50	120	-5.393	-0.0031	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

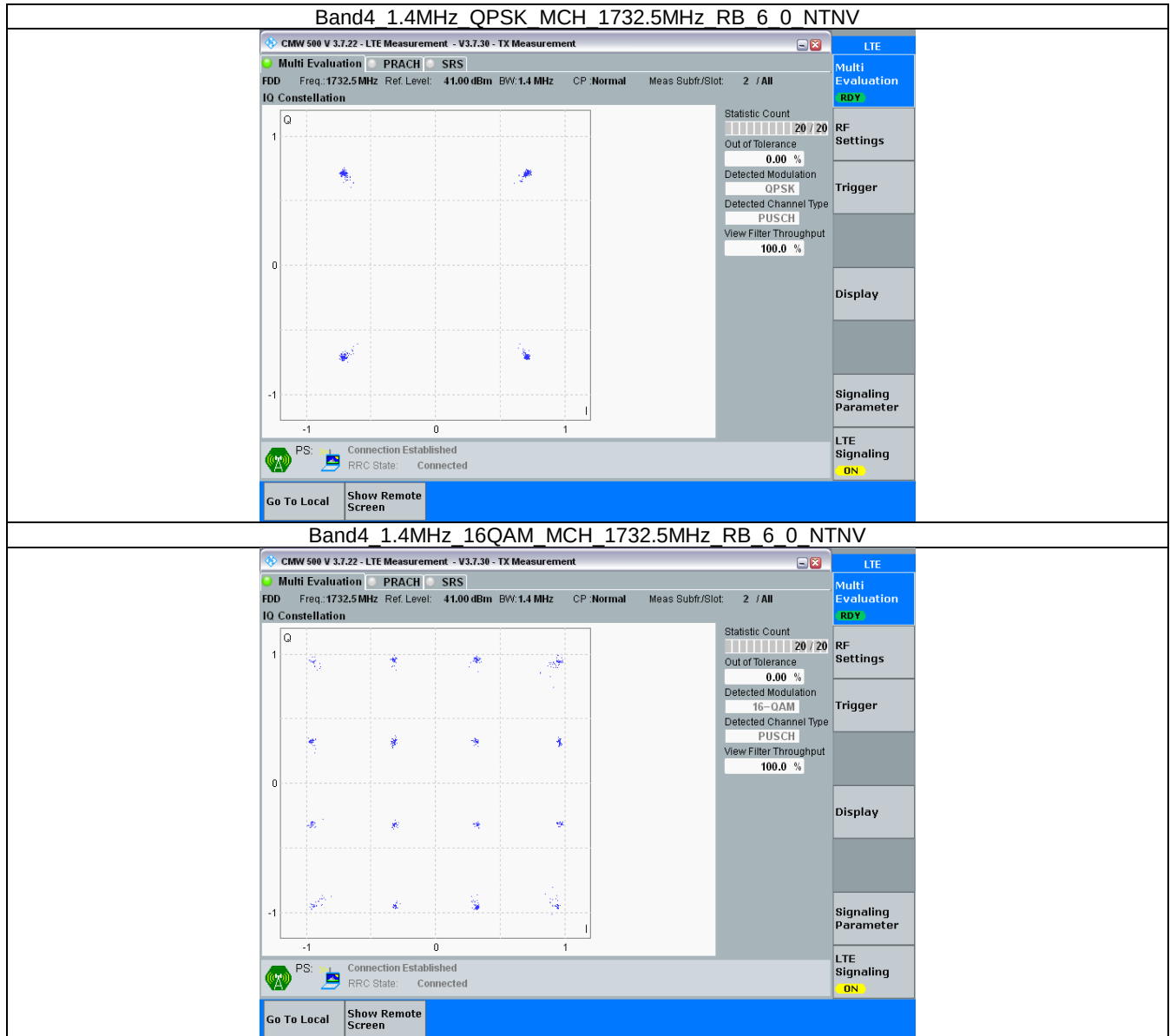
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

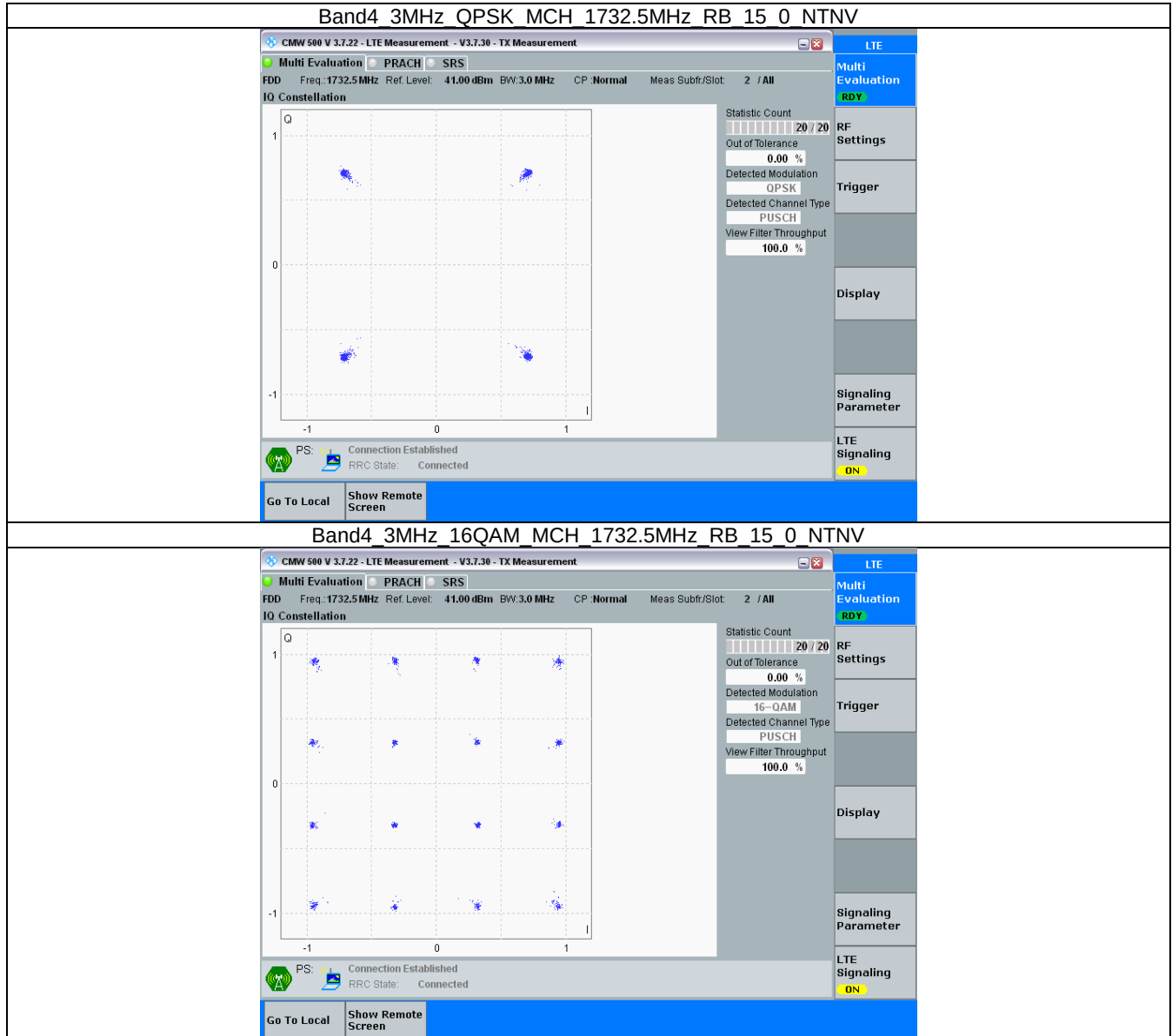
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

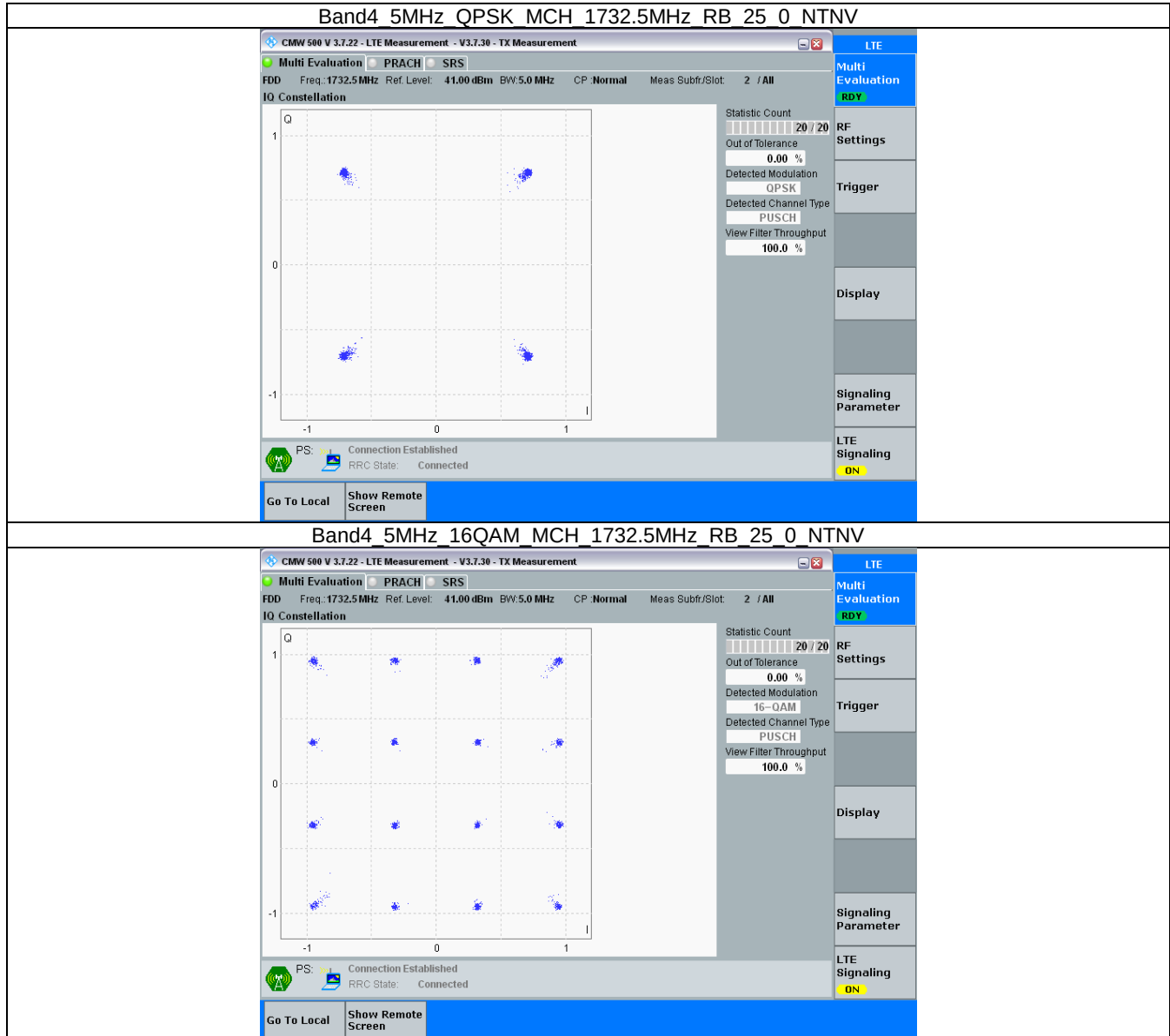
3.2.1 B4_1.4MHz



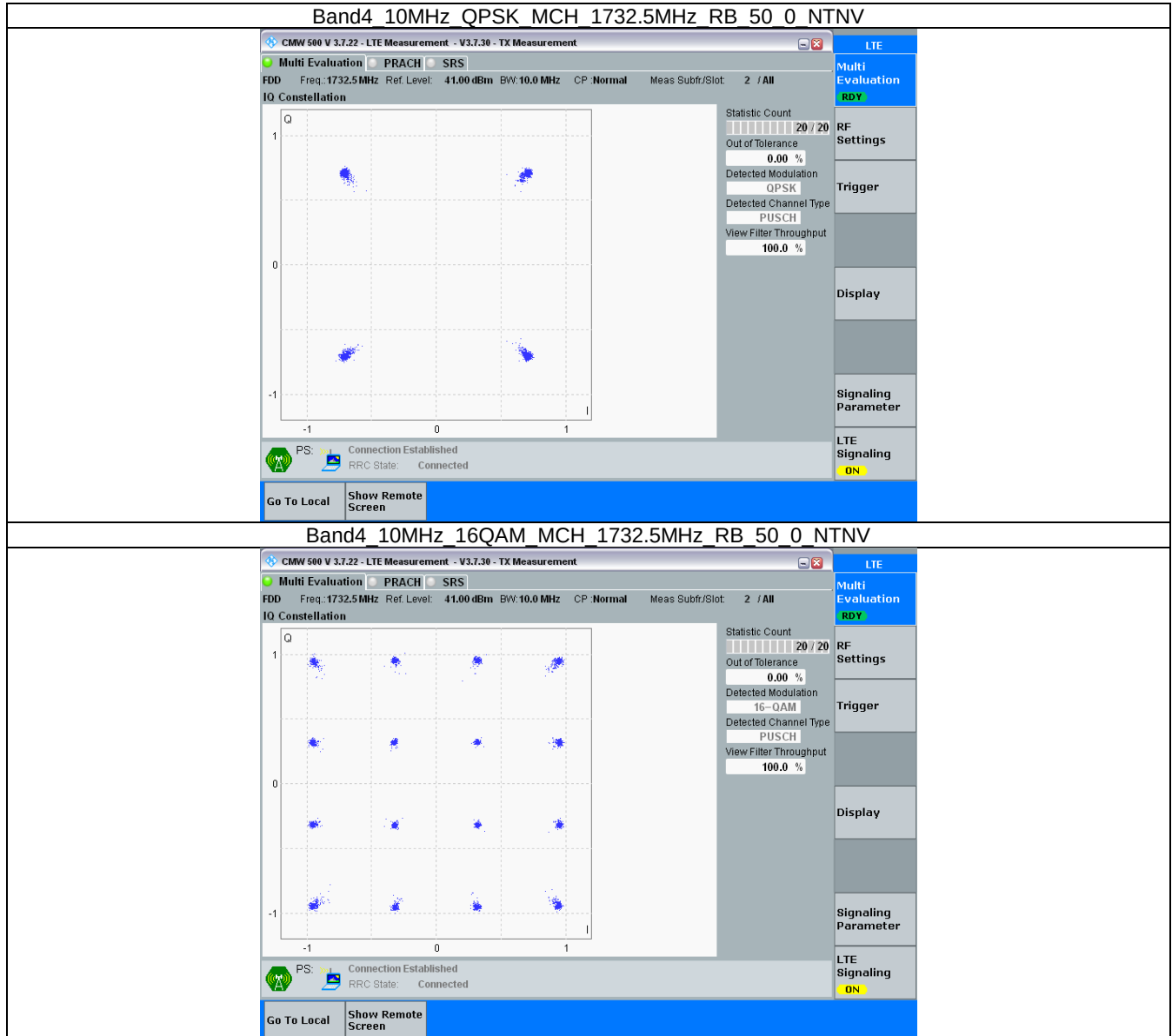
3.2.2 B4_3MHz



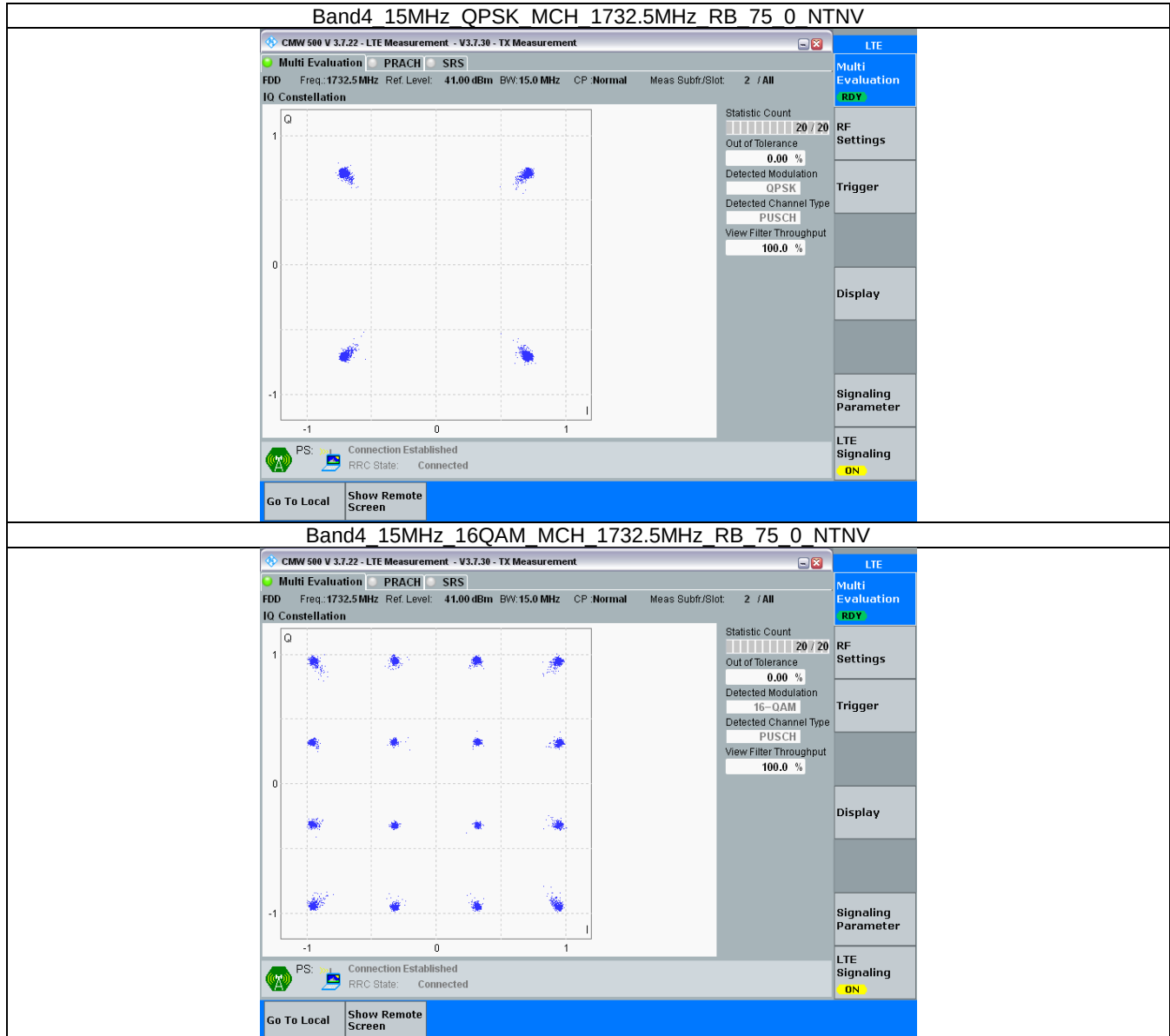
3.2.3 B4_5MHz



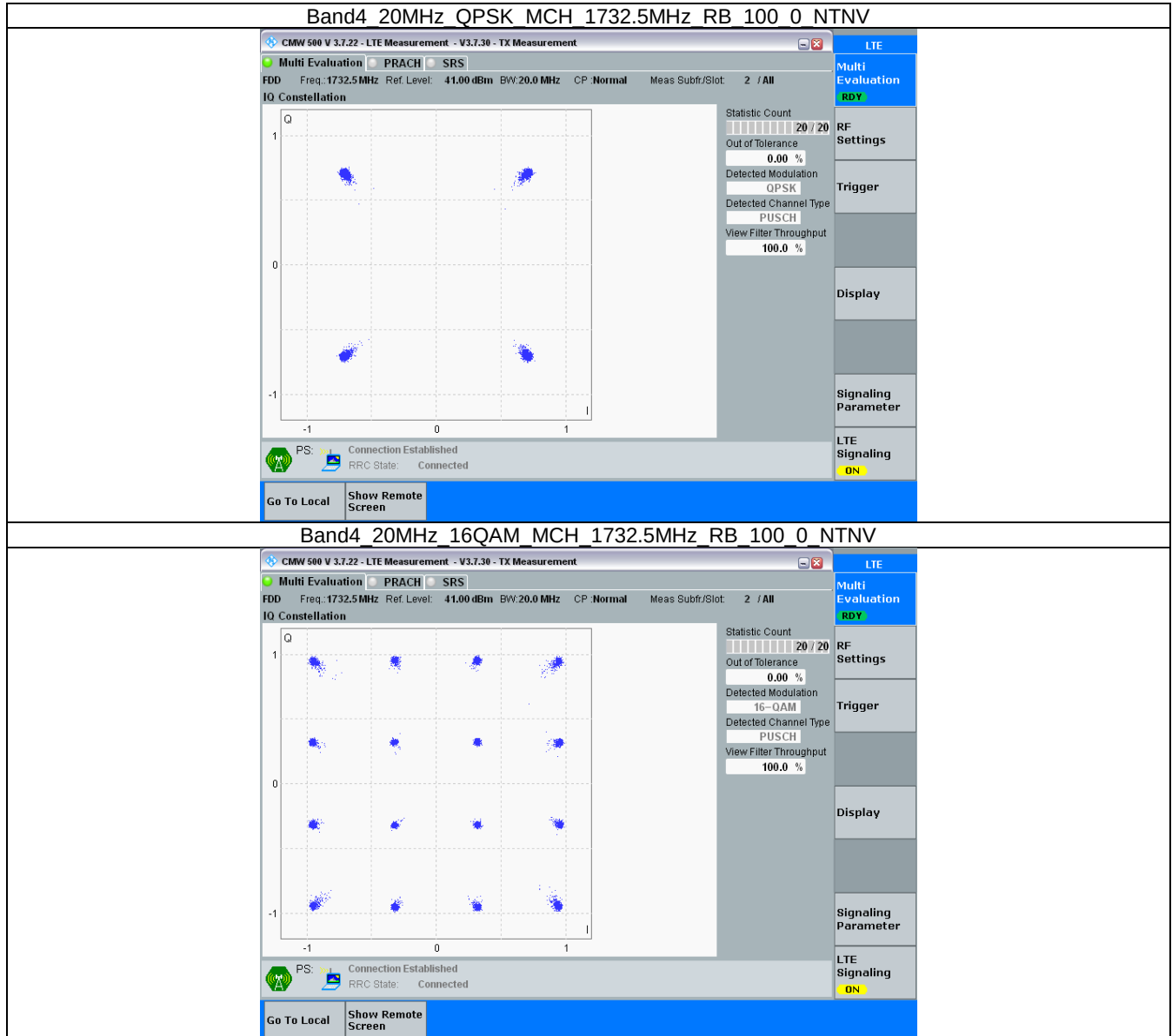
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.111	/	Pass
		1732.5	6	0	1.114	/	Pass
		1754.3	6	0	1.109	/	Pass
	16QAM	1710.7	6	0	1.116	/	Pass
		1732.5	6	0	1.121	/	Pass
		1754.3	6	0	1.118	/	Pass
3	QPSK	1711.5	15	0	2.747	/	Pass
		1732.5	15	0	2.746	/	Pass
		1753.5	15	0	2.734	/	Pass
	16QAM	1711.5	15	0	2.736	/	Pass
		1732.5	15	0	2.730	/	Pass
		1753.5	15	0	2.742	/	Pass
5	QPSK	1712.5	25	0	4.549	/	Pass
		1732.5	25	0	4.548	/	Pass
		1752.5	25	0	4.553	/	Pass
	16QAM	1712.5	25	0	4.571	/	Pass
		1732.5	25	0	4.567	/	Pass
		1752.5	25	0	4.541	/	Pass
10	QPSK	1715	50	0	9.071	/	Pass
		1732.5	50	0	9.030	/	Pass
		1750	50	0	9.045	/	Pass
	16QAM	1715	50	0	9.048	/	Pass
		1732.5	50	0	9.029	/	Pass
		1750	50	0	9.045	/	Pass
15	QPSK	1717.5	75	0	13.601	/	Pass
		1732.5	75	0	13.572	/	Pass
		1747.5	75	0	13.581	/	Pass
	16QAM	1717.5	75	0	13.580	/	Pass
		1732.5	75	0	13.598	/	Pass
		1747.5	75	0	13.584	/	Pass
20	QPSK	1720	100	0	18.055	/	Pass
		1732.5	100	0	18.100	/	Pass
		1745	100	0	18.124	/	Pass
	16QAM	1720	100	0	18.109	/	Pass
		1732.5	100	0	18.097	/	Pass
		1745	100	0	18.180	/	Pass

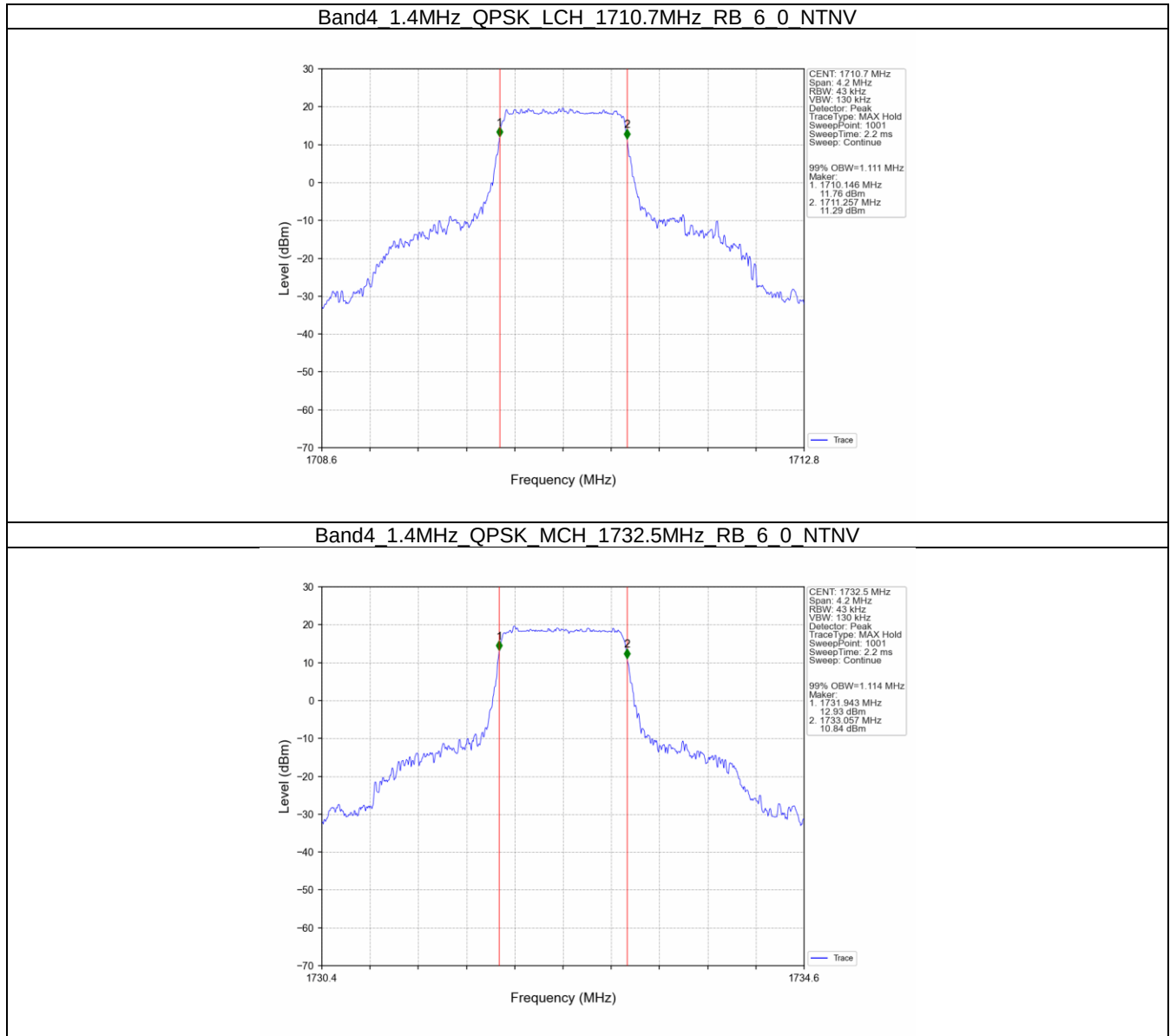
4.1.2 Band4_XDB

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.366	/	Pass
		1732.5	6	0	1.324	/	Pass
		1754.3	6	0	1.346	/	Pass
	16QAM	1710.7	6	0	1.325	/	Pass
		1732.5	6	0	1.314	/	Pass
		1754.3	6	0	1.331	/	Pass
3	QPSK	1711.5	15	0	3.020	/	Pass

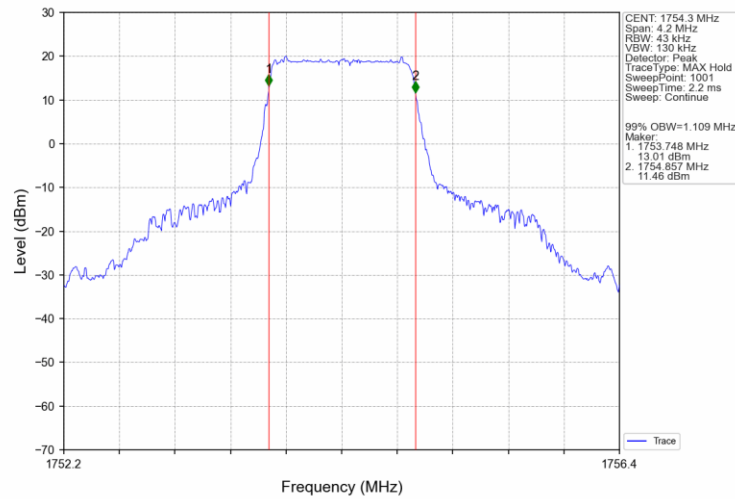
	16QAM	1732.5	15	0	3.015	/	Pass
		1753.5	15	0	3.025	/	Pass
		1711.5	15	0	3.029	/	Pass
		1732.5	15	0	3.020	/	Pass
		1753.5	15	0	3.028	/	Pass
5	QPSK	1712.5	25	0	5.092	/	Pass
		1732.5	25	0	5.046	/	Pass
		1752.5	25	0	5.058	/	Pass
	16QAM	1712.5	25	0	5.068	/	Pass
		1732.5	25	0	5.298	/	Pass
		1752.5	25	0	5.059	/	Pass
10	QPSK	1715	50	0	9.885	/	Pass
		1732.5	50	0	9.944	/	Pass
		1750	50	0	10.053	/	Pass
	16QAM	1715	50	0	9.960	/	Pass
		1732.5	50	0	9.886	/	Pass
		1750	50	0	9.933	/	Pass
15	QPSK	1717.5	75	0	14.888	/	Pass
		1732.5	75	0	14.913	/	Pass
		1747.5	75	0	15.010	/	Pass
	16QAM	1717.5	75	0	14.993	/	Pass
		1732.5	75	0	14.937	/	Pass
		1747.5	75	0	14.959	/	Pass
20	QPSK	1720	100	0	19.855	/	Pass
		1732.5	100	0	19.830	/	Pass
		1745	100	0	19.810	/	Pass
	16QAM	1720	100	0	19.662	/	Pass
		1732.5	100	0	19.901	/	Pass
		1745	100	0	19.575	/	Pass

4.2 Test Graph

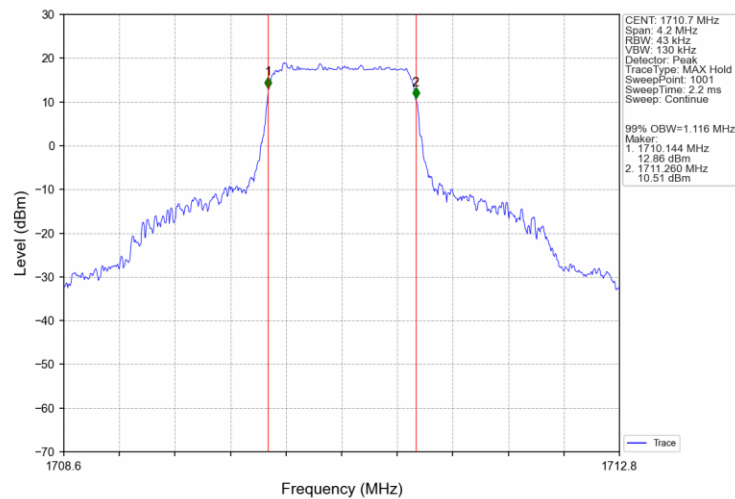
4.2.1 Band4_OBW



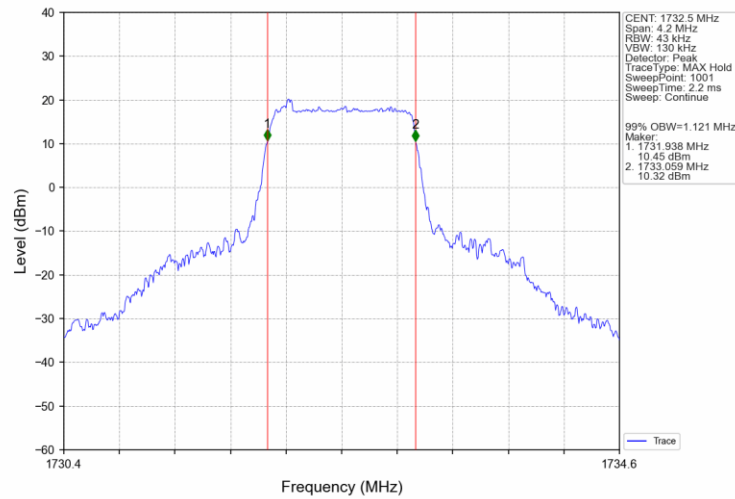
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



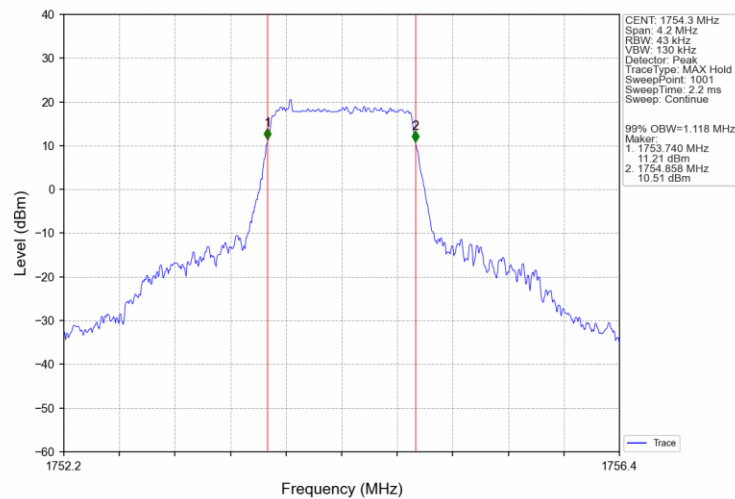
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



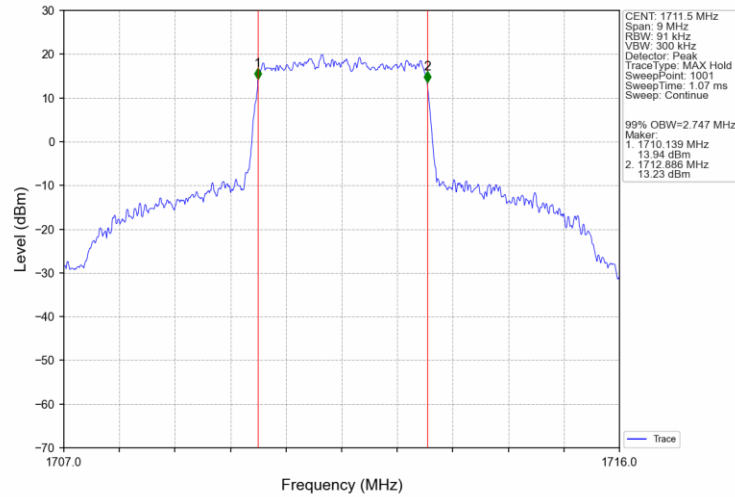
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



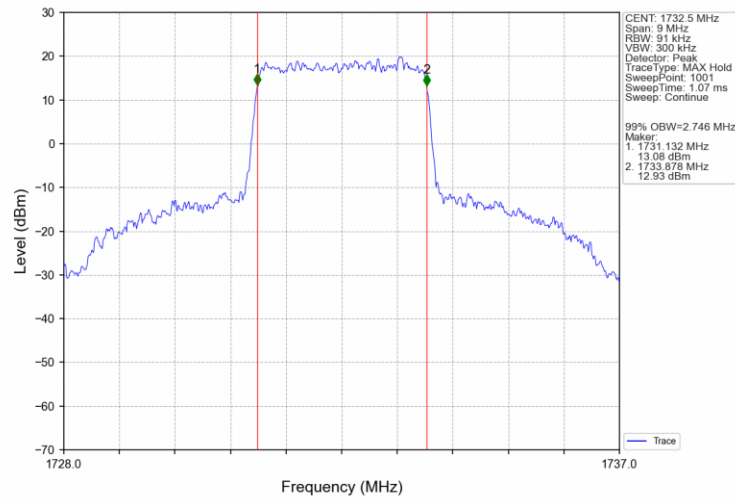
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



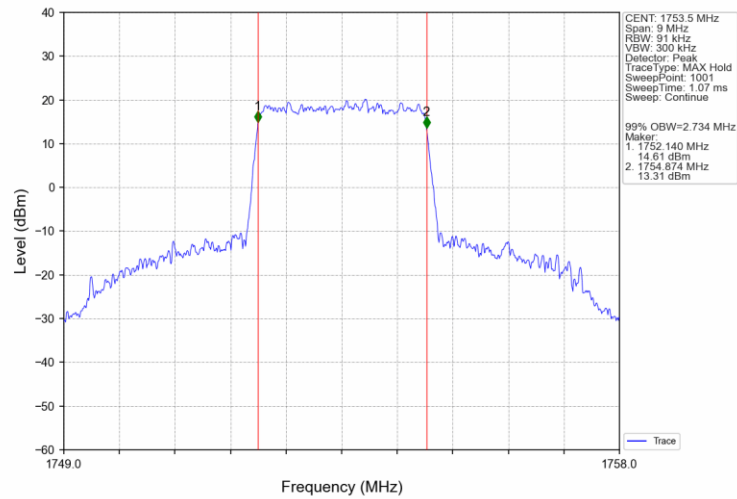
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTV



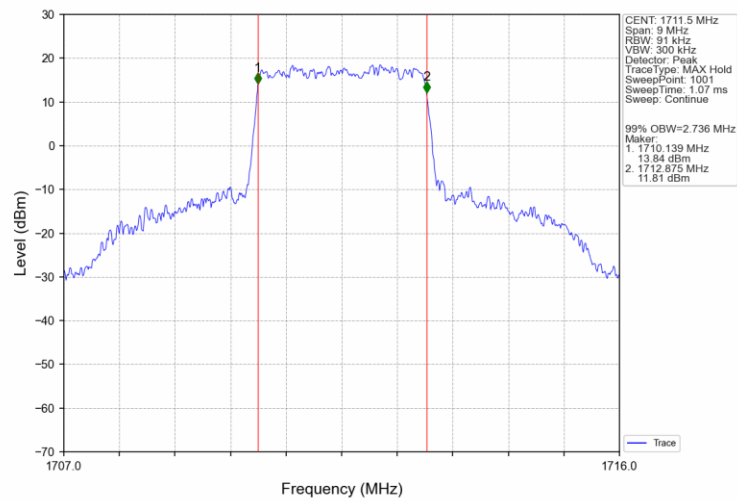
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTV



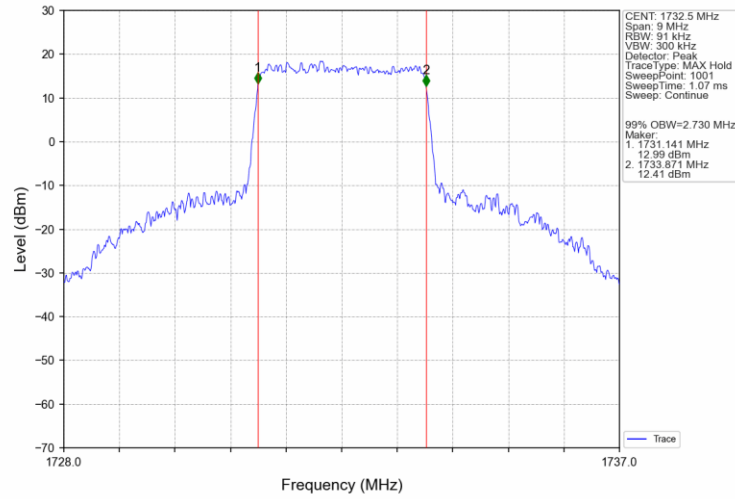
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



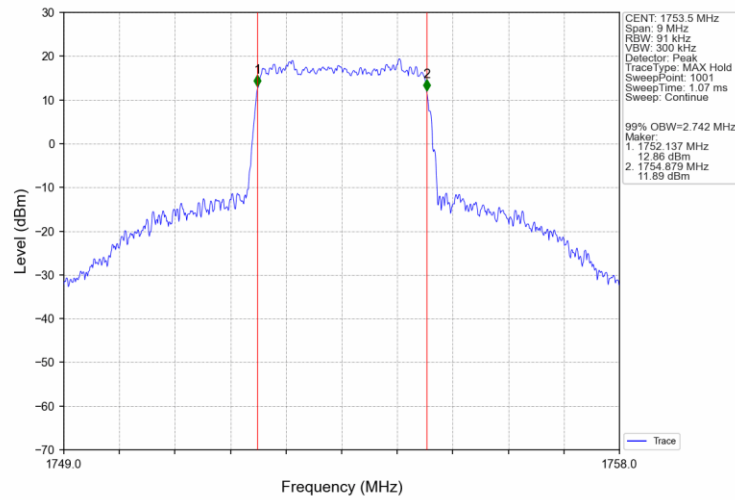
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



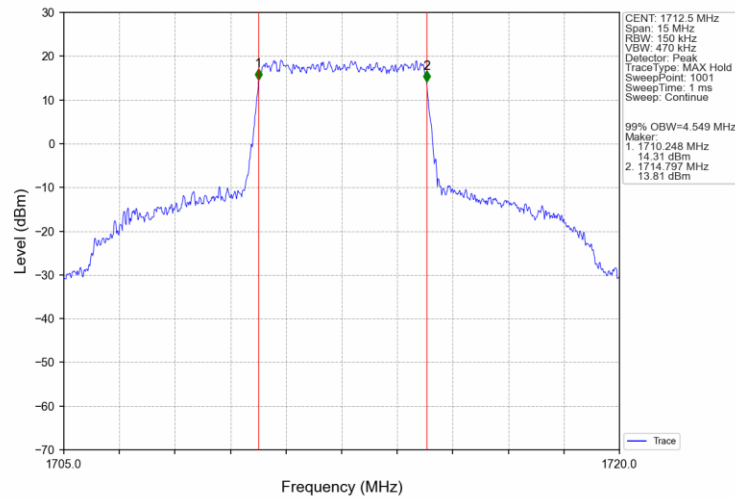
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



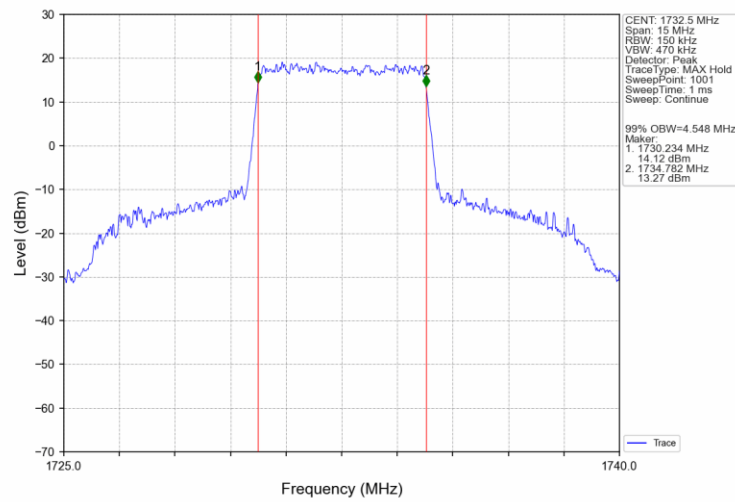
Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



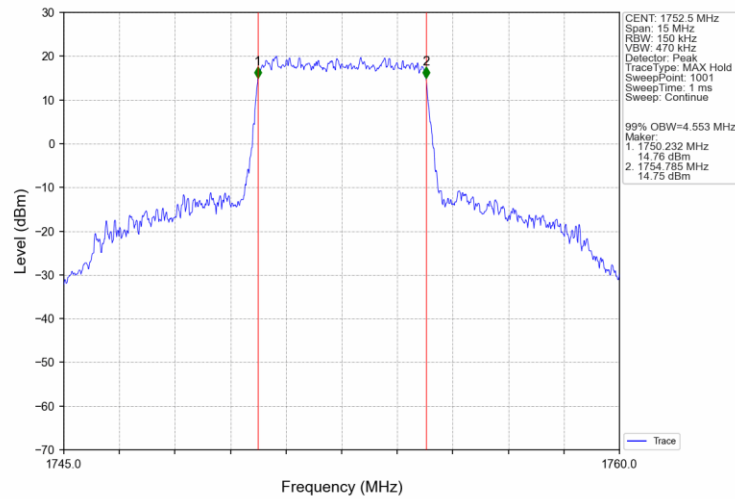
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTV



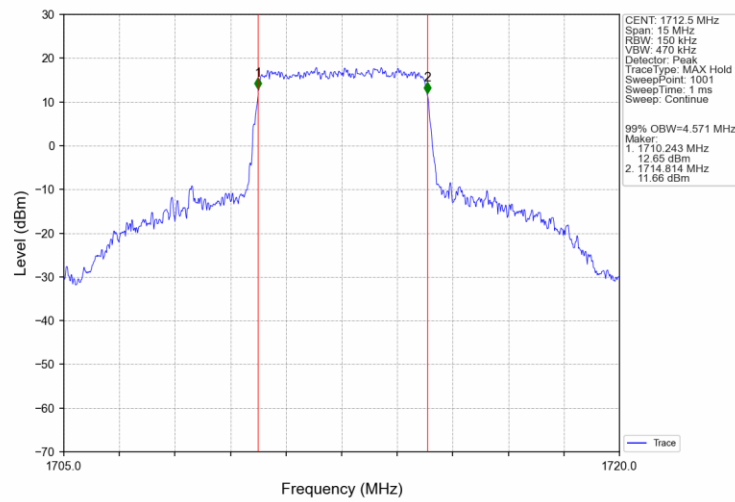
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTV



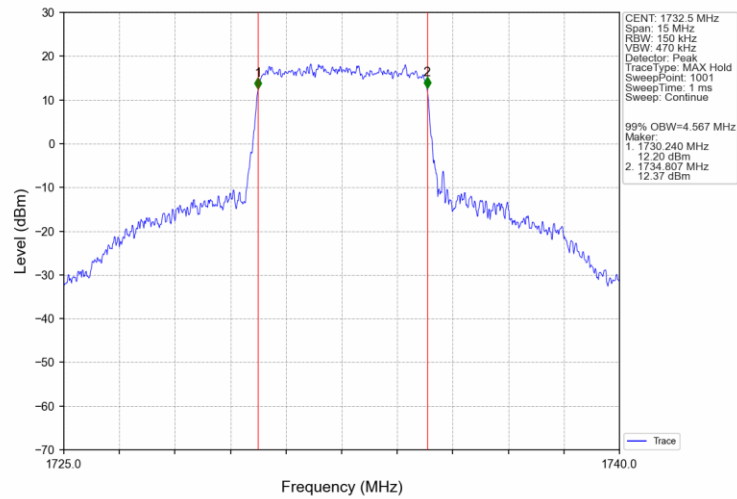
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



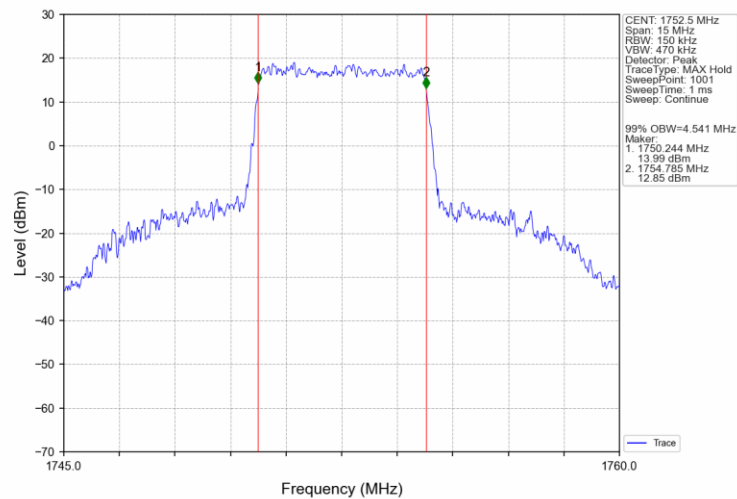
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



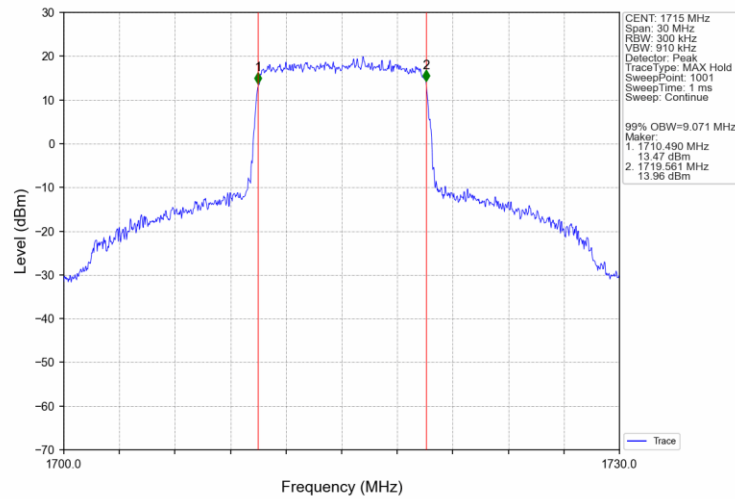
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



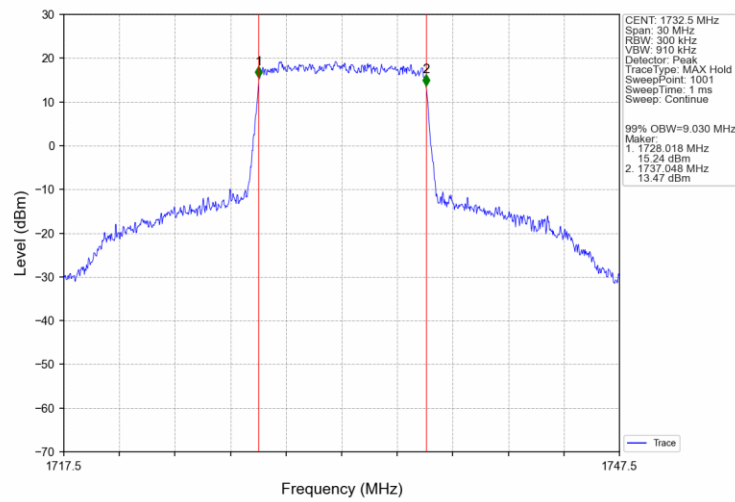
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



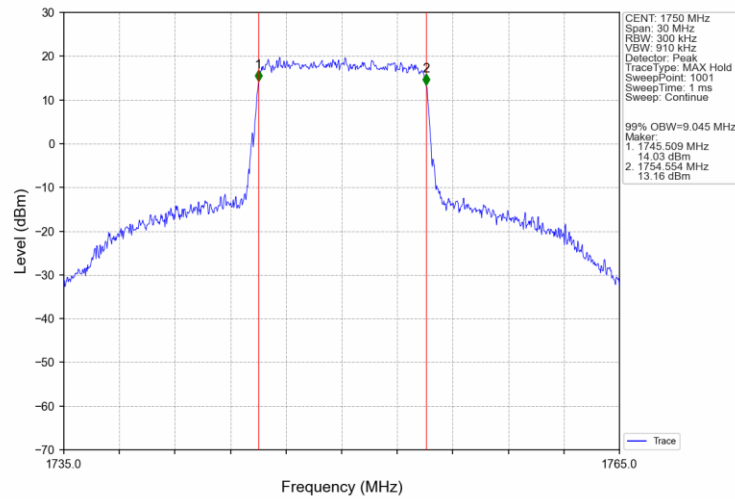
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTN



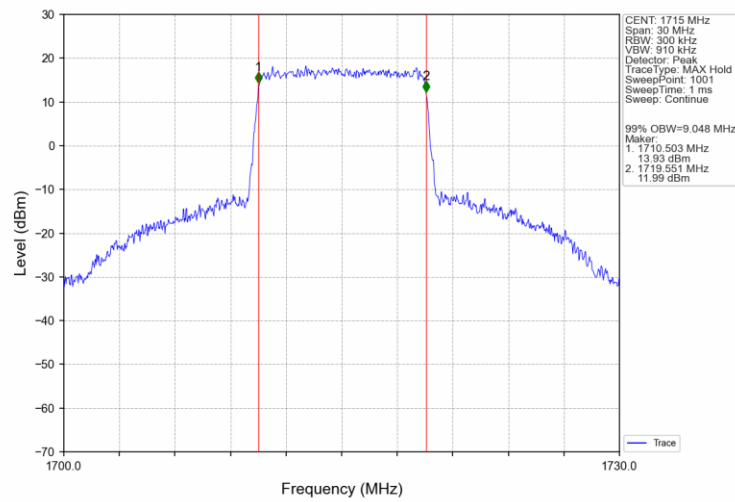
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTN



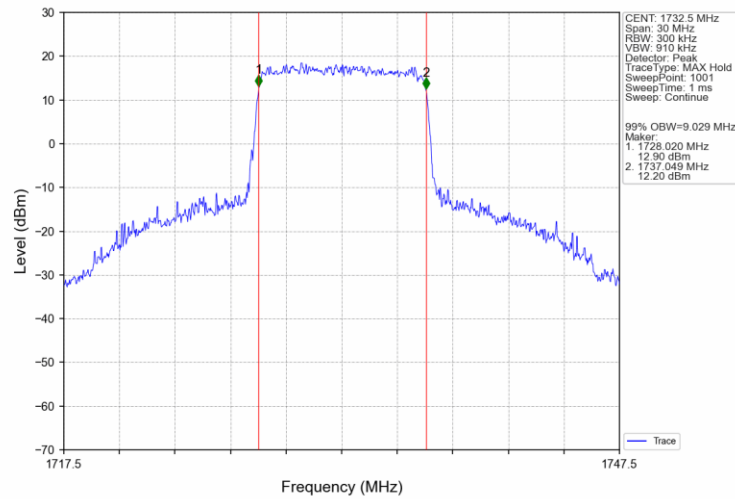
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



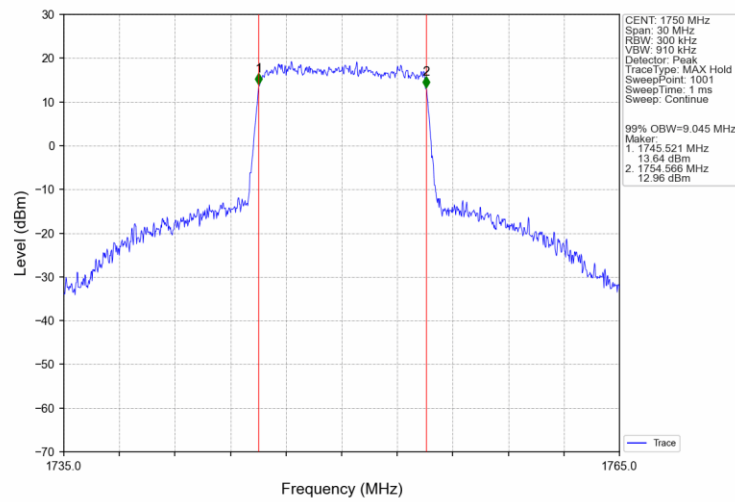
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



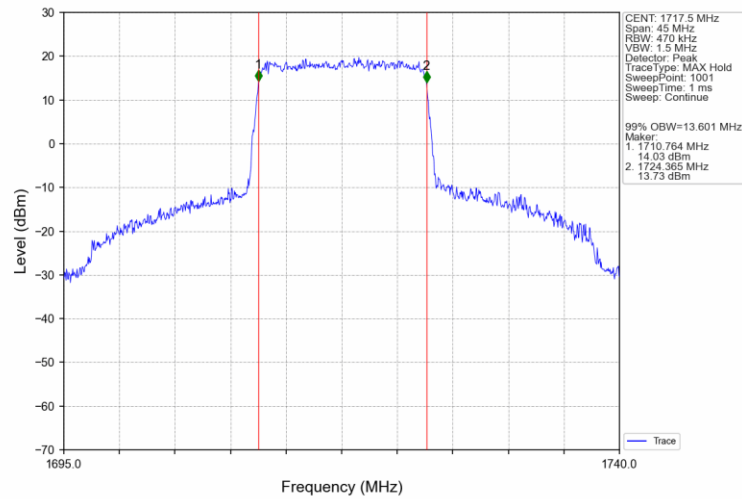
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTN



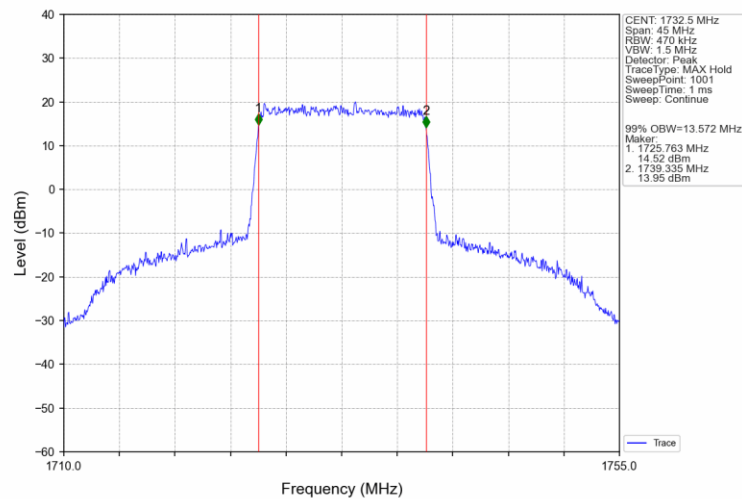
Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTN



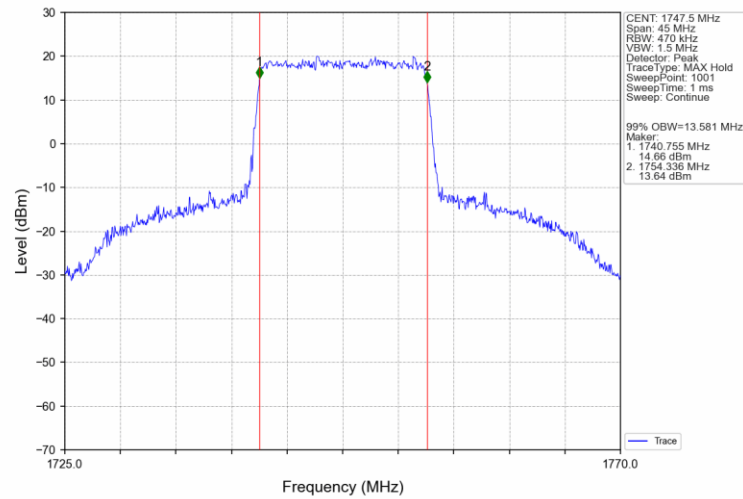
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



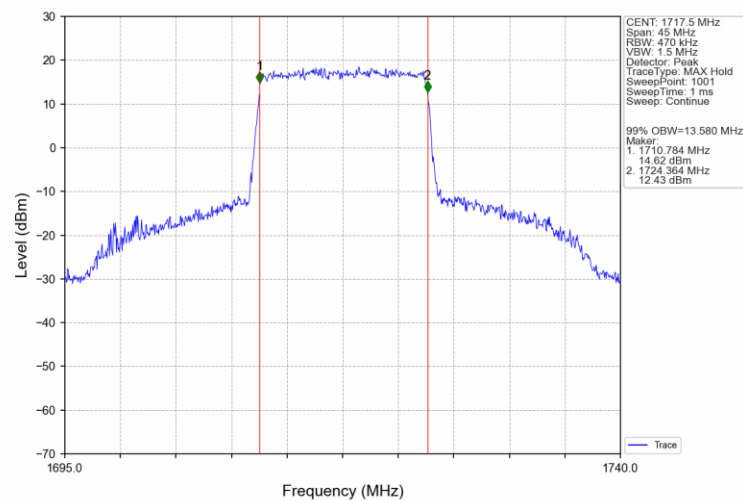
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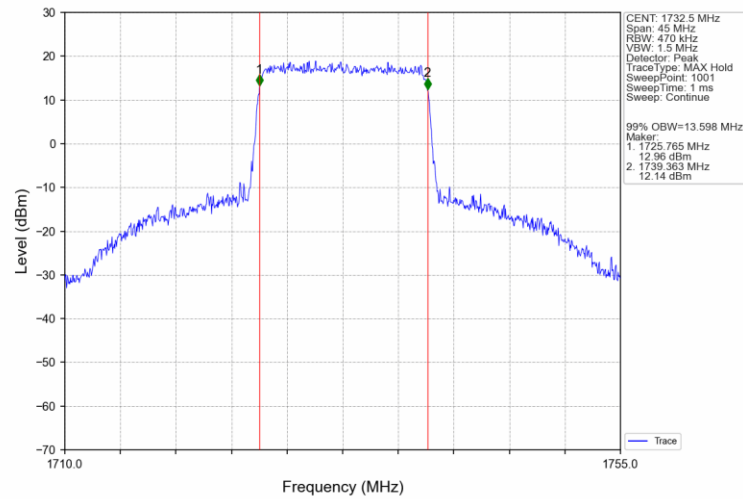
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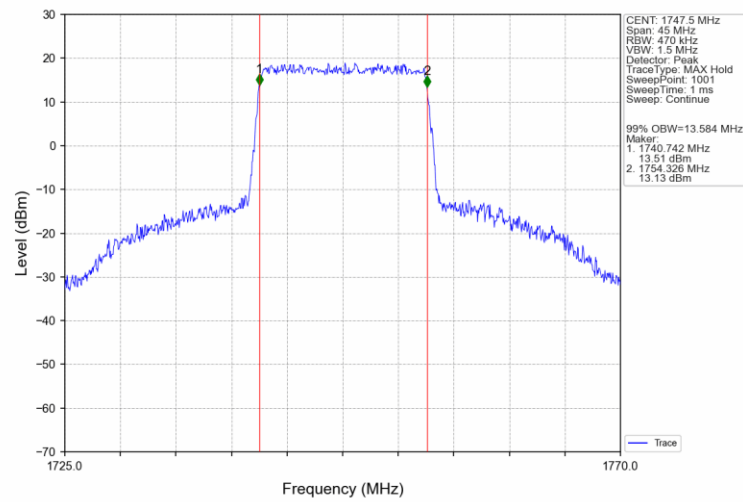
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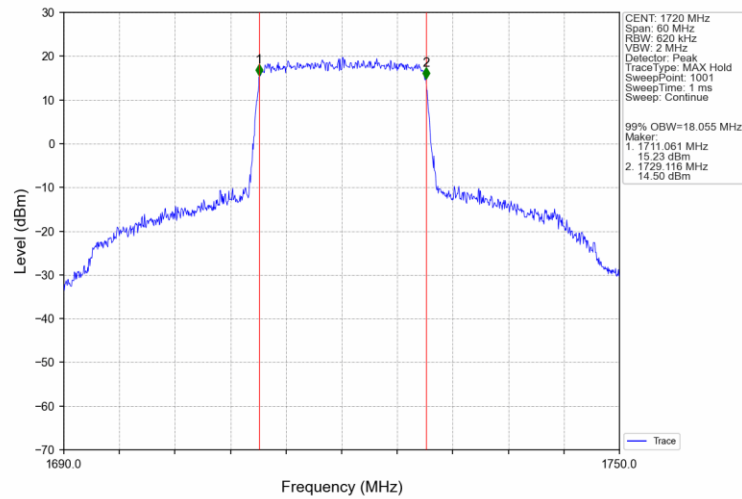
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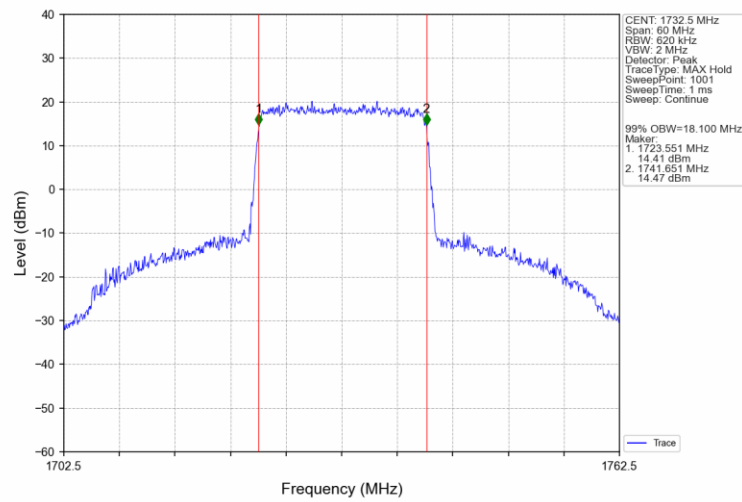
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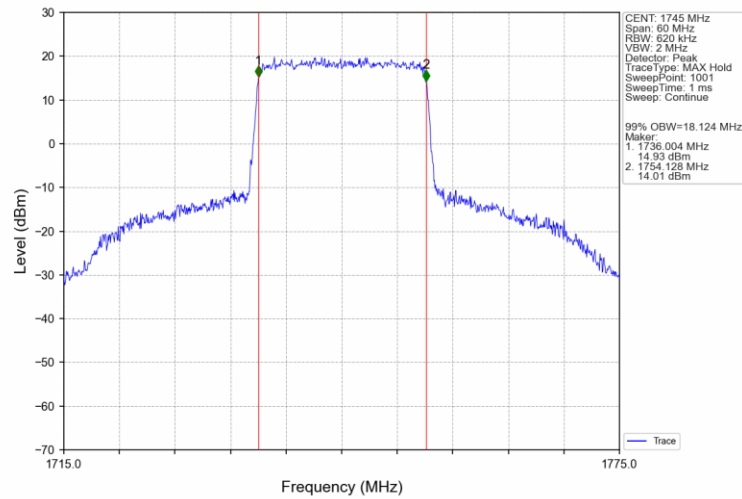
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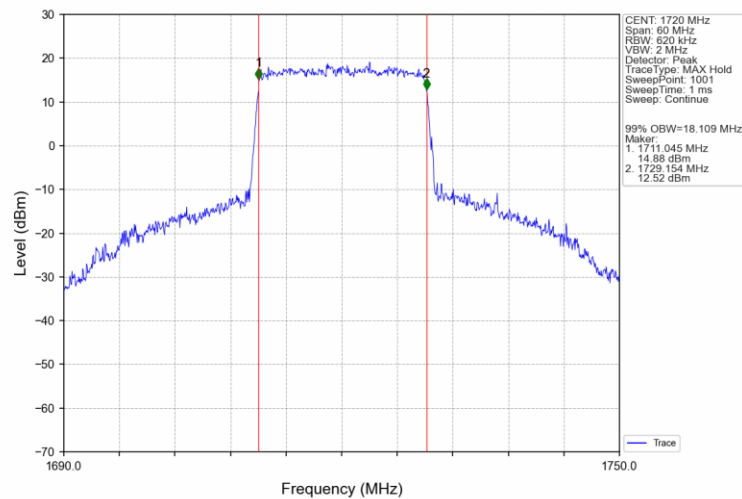
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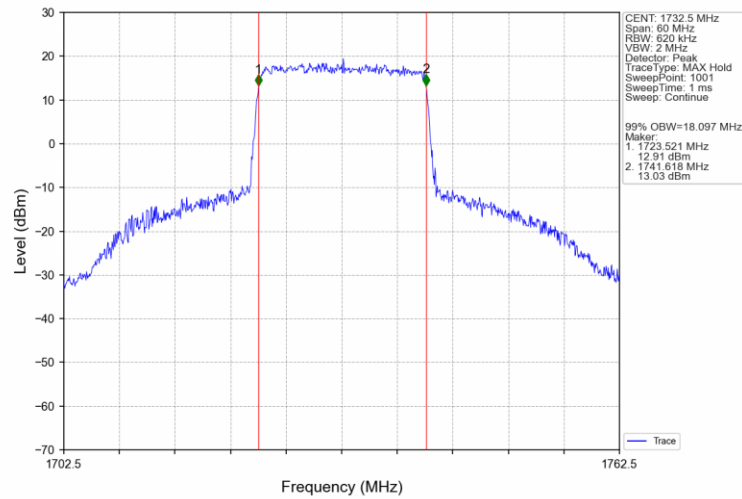
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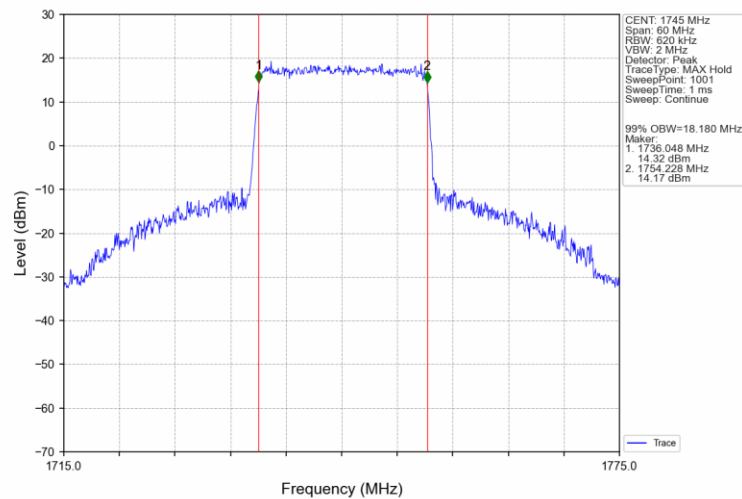
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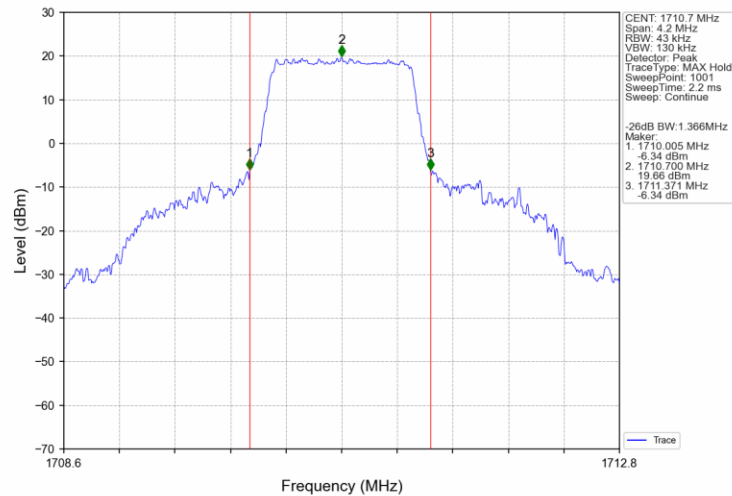


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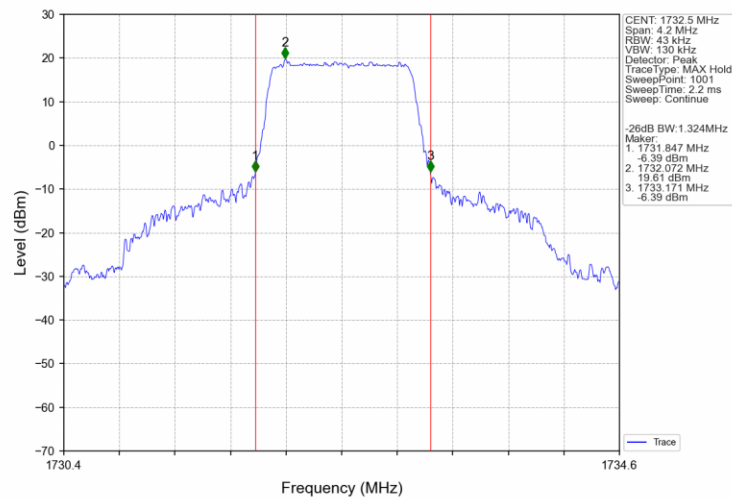


4.2.2 Band4_XDB

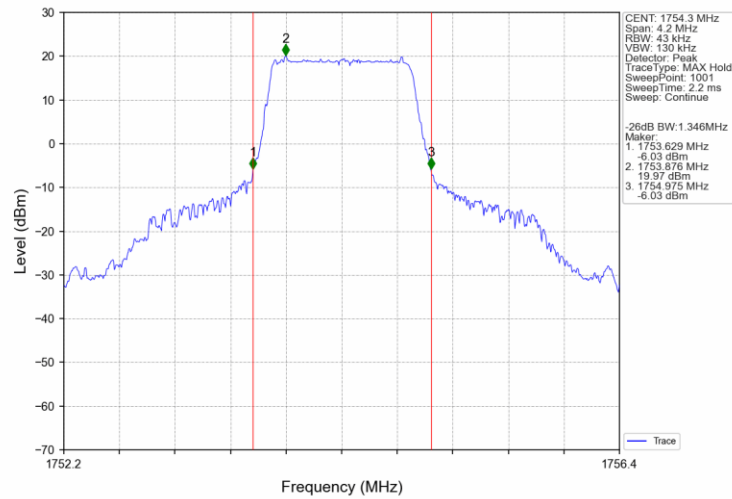
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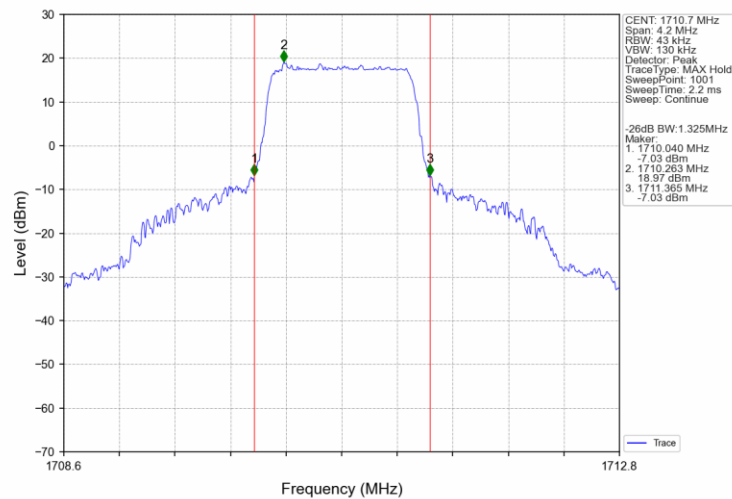
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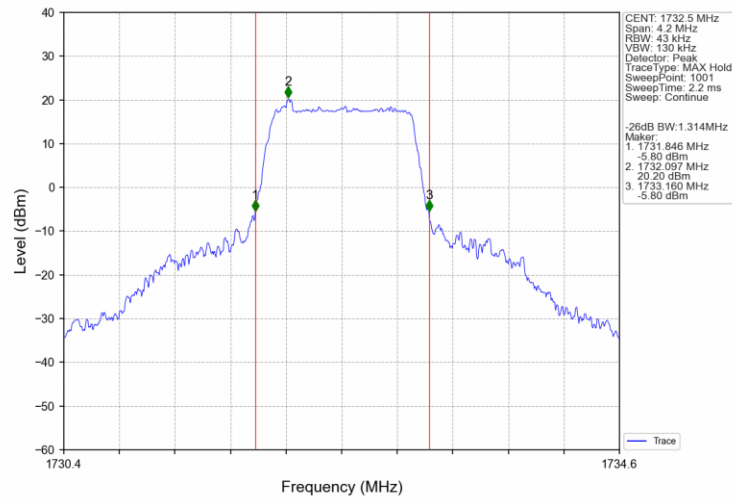
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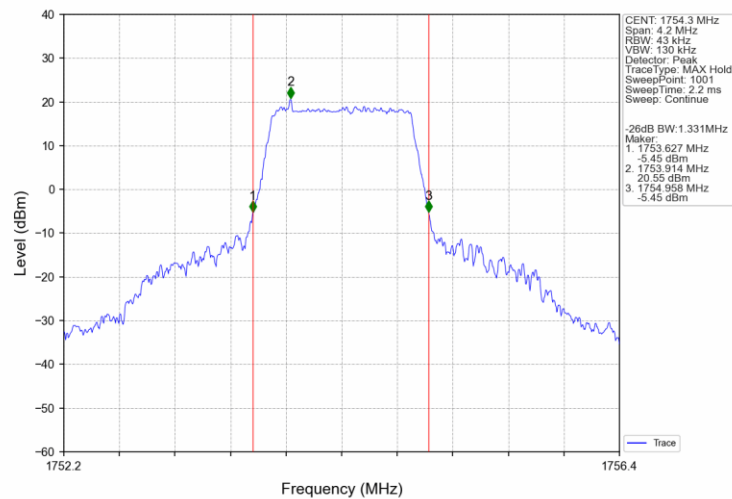
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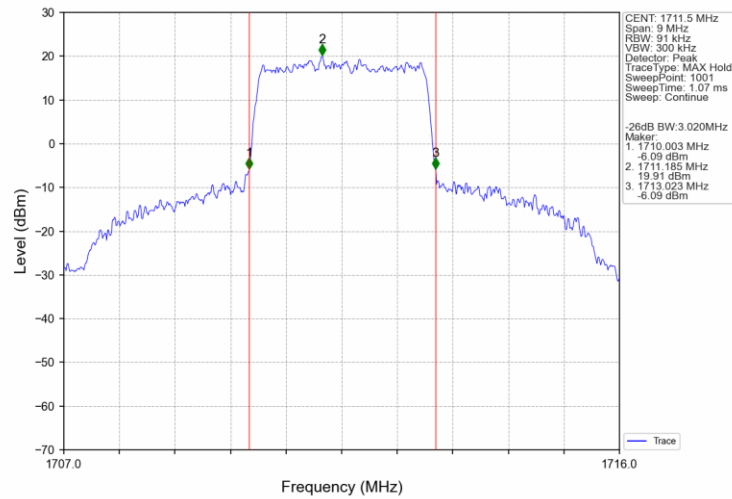
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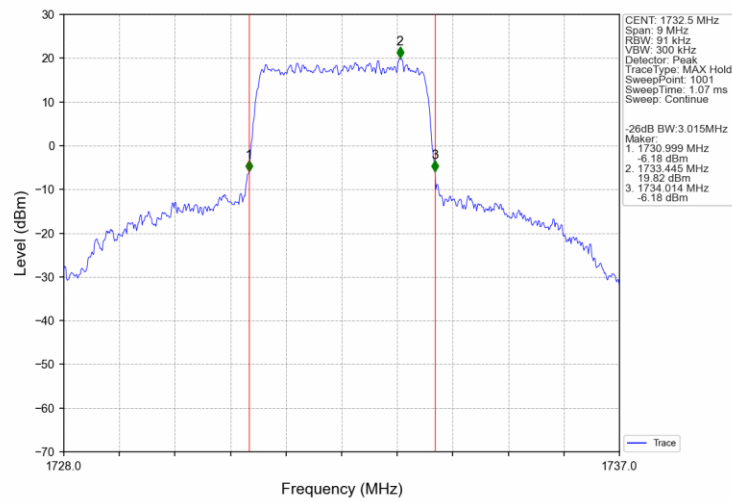
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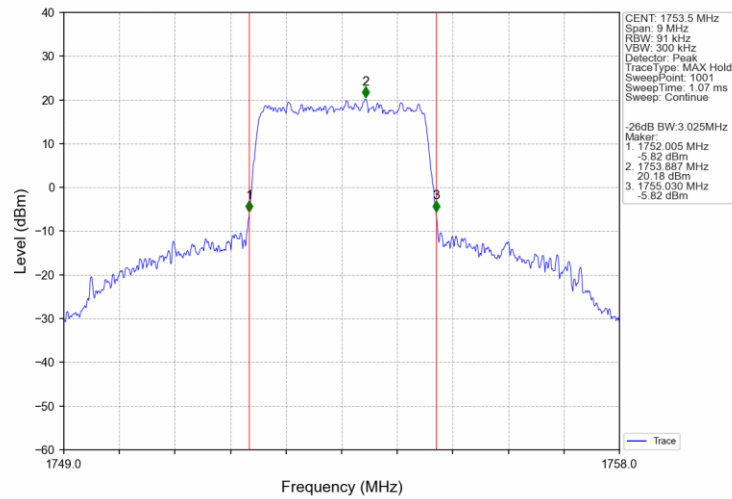
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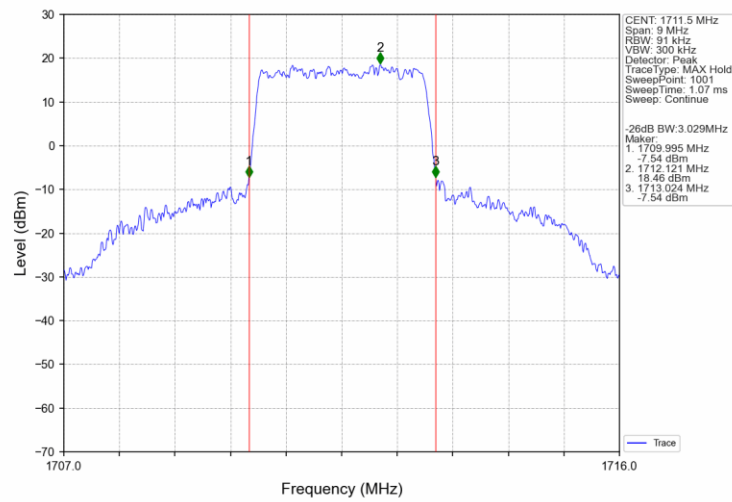
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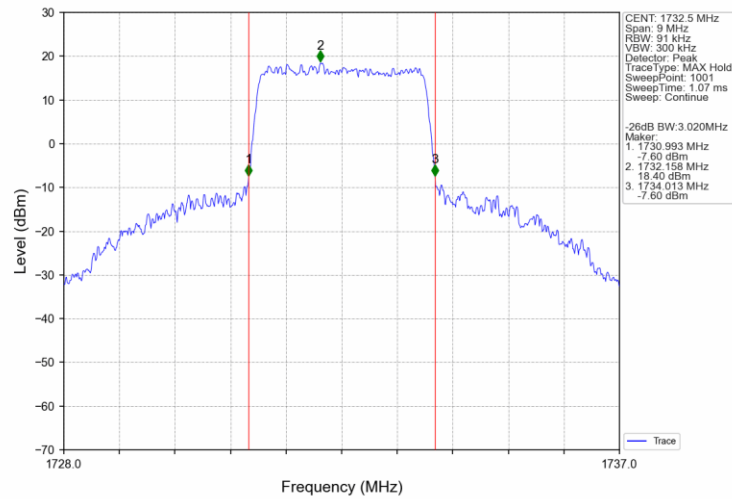
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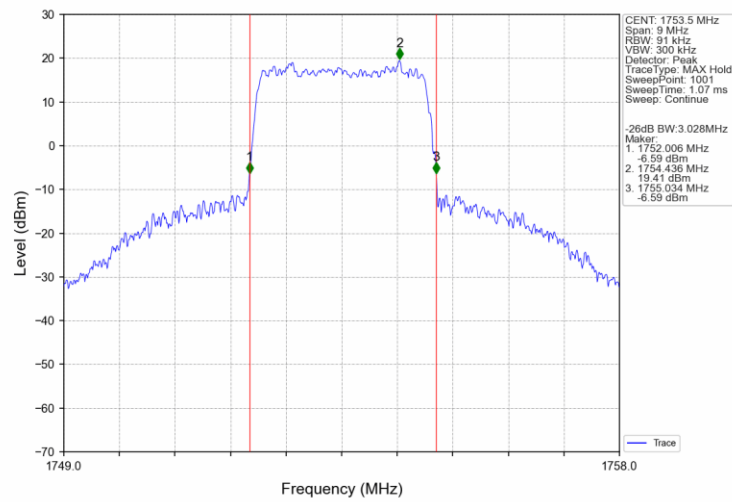
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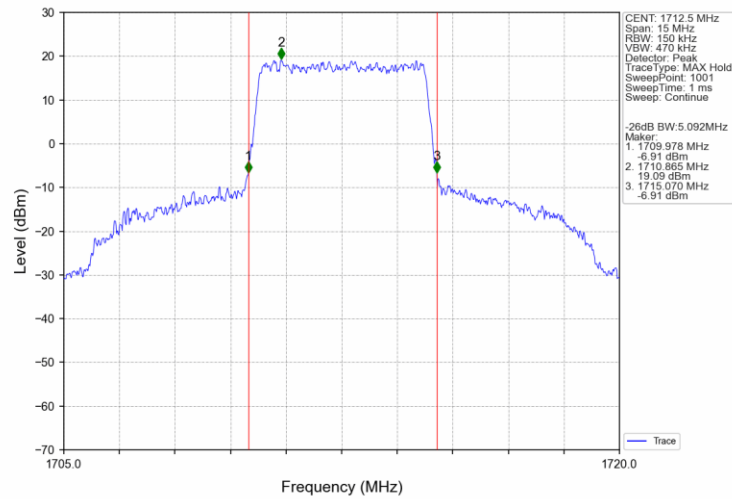
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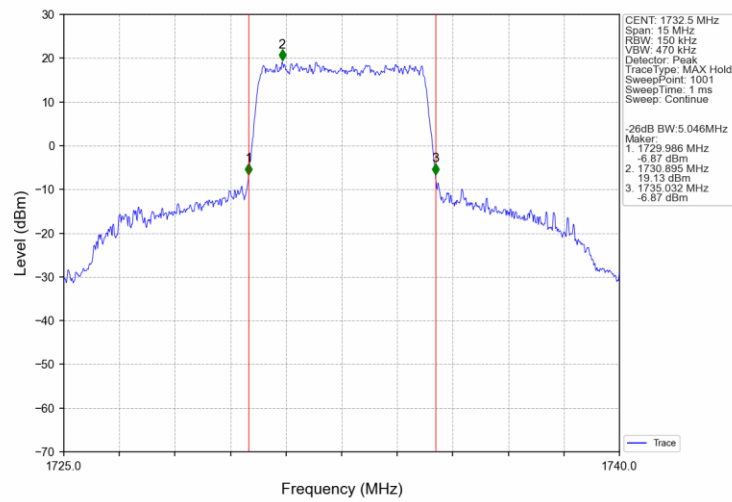
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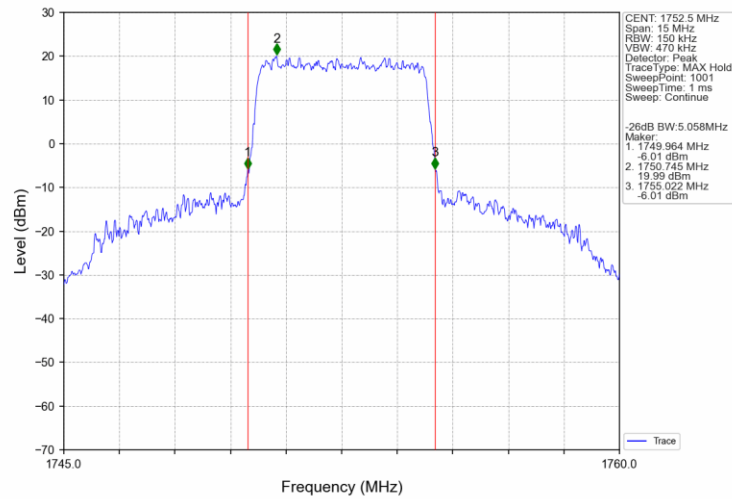
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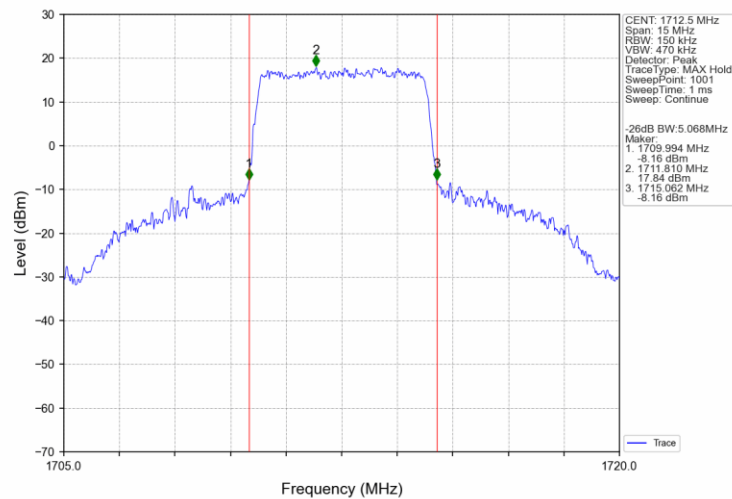
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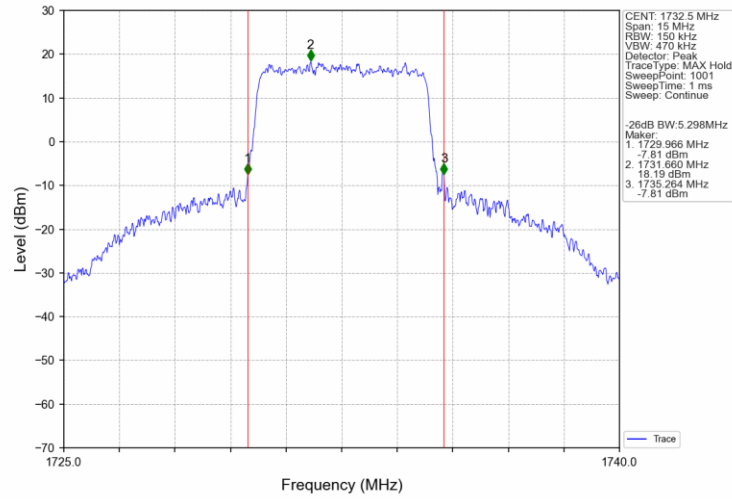
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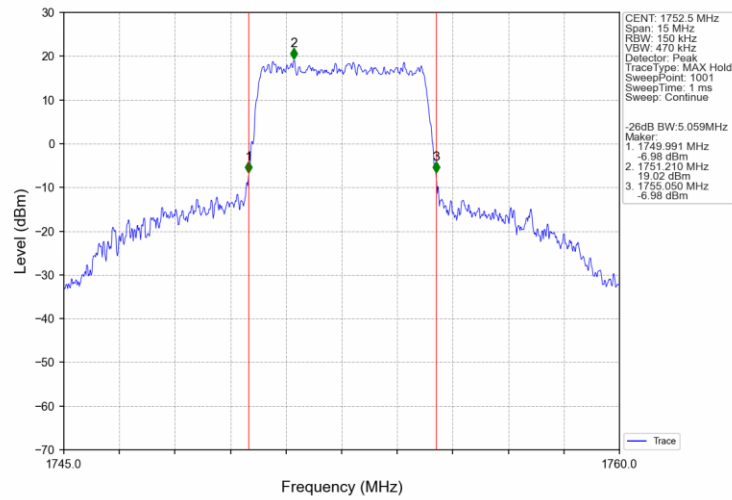
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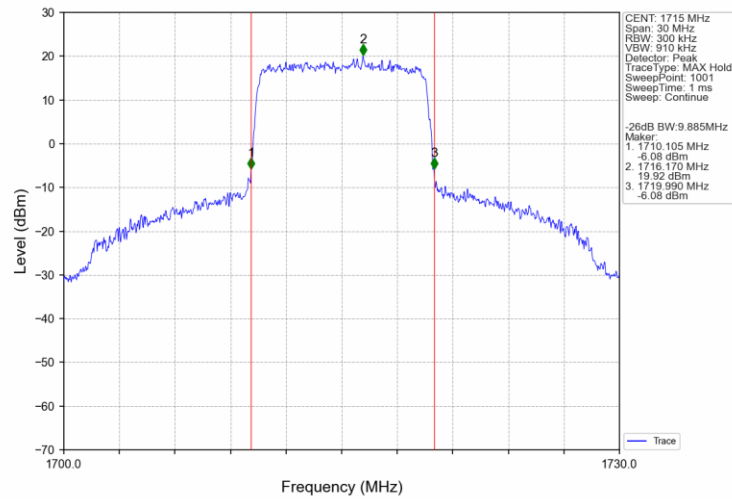
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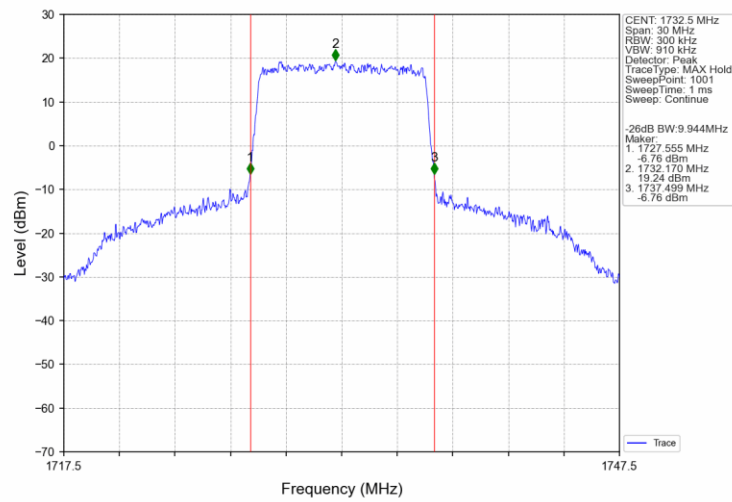
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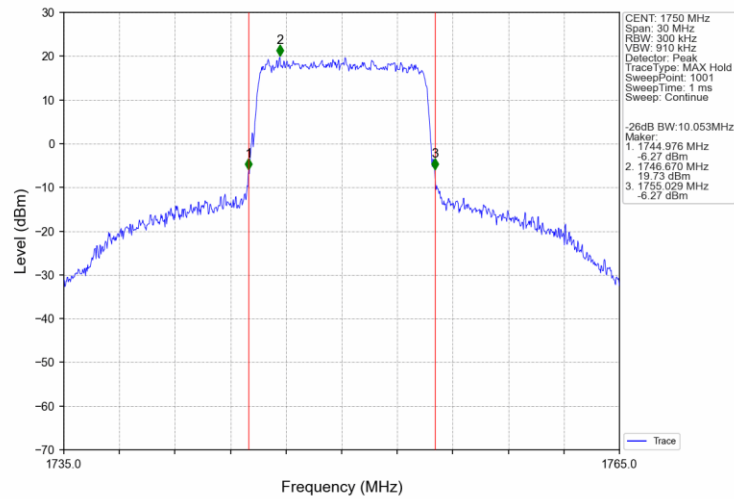
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV



Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTNV



Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

