

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	23.71	-3.60	20.11	<=30	Pass
			2	23.78	-3.60	20.18	<=30	Pass
			5	23.69	-3.60	20.09	<=30	Pass
		3	0	23.73	-3.60	20.13	<=30	Pass
			2	23.72	-3.60	20.12	<=30	Pass
			3	23.69	-3.60	20.09	<=30	Pass
		6	0	22.73	-3.60	19.13	<=30	Pass
	1732.5	1	0	23.71	-3.60	20.11	<=30	Pass
			2	23.82	-3.60	20.22	<=30	Pass
			5	23.73	-3.60	20.13	<=30	Pass
		3	0	23.81	-3.60	20.21	<=30	Pass
			2	23.85	-3.60	20.25	<=30	Pass
			3	23.79	-3.60	20.19	<=30	Pass
		6	0	22.89	-3.60	19.29	<=30	Pass
	1754.3	1	0	23.99	-3.60	20.39	<=30	Pass
			2	24.08	-3.60	20.48	<=30	Pass
			5	23.99	-3.60	20.39	<=30	Pass
		3	0	24.08	-3.60	20.48	<=30	Pass
			2	24.09	-3.60	20.49	<=30	Pass
			3	24.07	-3.60	20.47	<=30	Pass
		6	0	23.10	-3.60	19.50	<=30	Pass
16QAM	1710.7	1	0	22.69	-3.60	19.09	<=30	Pass
			2	22.79	-3.60	19.19	<=30	Pass
			5	22.73	-3.60	19.13	<=30	Pass
		3	0	22.75	-3.60	19.15	<=30	Pass
			2	22.77	-3.60	19.17	<=30	Pass
			3	22.74	-3.60	19.14	<=30	Pass
		6	0	21.63	-3.60	18.03	<=30	Pass
	1732.5	1	0	22.91	-3.60	19.31	<=30	Pass
			2	23.08	-3.60	19.48	<=30	Pass
			5	22.97	-3.60	19.37	<=30	Pass
		3	0	22.75	-3.60	19.15	<=30	Pass
			2	22.80	-3.60	19.20	<=30	Pass
			3	22.75	-3.60	19.15	<=30	Pass
		6	0	21.85	-3.60	18.25	<=30	Pass
	1754.3	1	0	23.05	-3.60	19.45	<=30	Pass
			2	23.13	-3.60	19.53	<=30	Pass
			5	23.06	-3.60	19.46	<=30	Pass
		3	0	23.26	-3.60	19.66	<=30	Pass
			2	23.34	-3.60	19.74	<=30	Pass
			3	23.29	-3.60	19.69	<=30	Pass
		6	0	22.13	-3.60	18.53	<=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	23.79	-3.60	20.19	<=30	Pass
			7	23.87	-3.60	20.27	<=30	Pass
			14	23.72	-3.60	20.12	<=30	Pass
		8	0	22.76	-3.60	19.16	<=30	Pass
			4	22.78	-3.60	19.18	<=30	Pass
			7	22.73	-3.60	19.13	<=30	Pass
		15	0	22.74	-3.60	19.14	<=30	Pass
	1732.5	1	0	23.76	-3.60	20.16	<=30	Pass
			7	23.87	-3.60	20.27	<=30	Pass
			14	23.76	-3.60	20.16	<=30	Pass
		8	0	22.83	-3.60	19.23	<=30	Pass
			4	22.85	-3.60	19.25	<=30	Pass
			7	22.80	-3.60	19.20	<=30	Pass
		15	0	22.77	-3.60	19.17	<=30	Pass
	1753.5	1	0	23.99	-3.60	20.39	<=30	Pass
			7	24.14	-3.60	20.54	<=30	Pass
			14	24.04	-3.60	20.44	<=30	Pass
		8	0	23.06	-3.60	19.46	<=30	Pass
			4	23.10	-3.60	19.50	<=30	Pass
			7	23.06	-3.60	19.46	<=30	Pass
		15	0	23.06	-3.60	19.46	<=30	Pass
16QAM	1711.5	1	0	22.79	-3.60	19.19	<=30	Pass
			7	22.90	-3.60	19.30	<=30	Pass
			14	22.77	-3.60	19.17	<=30	Pass
		8	0	21.79	-3.60	18.19	<=30	Pass
			4	21.81	-3.60	18.21	<=30	Pass
			7	21.76	-3.60	18.16	<=30	Pass
		15	0	21.73	-3.60	18.13	<=30	Pass
	1732.5	1	0	22.95	-3.60	19.35	<=30	Pass
			7	23.07	-3.60	19.47	<=30	Pass
			14	22.95	-3.60	19.35	<=30	Pass
		8	0	21.78	-3.60	18.18	<=30	Pass
			4	21.80	-3.60	18.20	<=30	Pass
			7	21.75	-3.60	18.15	<=30	Pass
		15	0	21.75	-3.60	18.15	<=30	Pass
	1753.5	1	0	23.54	-3.60	19.94	<=30	Pass
			7	23.66	-3.60	20.06	<=30	Pass
			14	23.55	-3.60	19.95	<=30	Pass
		8	0	22.20	-3.60	18.60	<=30	Pass
			4	22.22	-3.60	18.62	<=30	Pass
			7	22.19	-3.60	18.59	<=30	Pass
		15	0	22.07	-3.60	18.47	<=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	23.63	-3.60	20.03	<=30	Pass
			13	23.73	-3.60	20.13	<=30	Pass
			24	23.61	-3.60	20.01	<=30	Pass
		12	0	22.70	-3.60	19.10	<=30	Pass
			6	22.78	-3.60	19.18	<=30	Pass
			13	22.75	-3.60	19.15	<=30	Pass
		25	0	22.73	-3.60	19.13	<=30	Pass
	1732.5	1	0	23.70	-3.60	20.10	<=30	Pass
			13	23.78	-3.60	20.18	<=30	Pass
			24	23.69	-3.60	20.09	<=30	Pass
		12	0	22.81	-3.60	19.21	<=30	Pass
			6	22.81	-3.60	19.21	<=30	Pass
			13	22.76	-3.60	19.16	<=30	Pass
		25	0	22.76	-3.60	19.16	<=30	Pass
	1752.5	1	0	23.85	-3.60	20.25	<=30	Pass
			13	24.04	-3.60	20.44	<=30	Pass
			24	23.95	-3.60	20.35	<=30	Pass
		12	0	23.01	-3.60	19.41	<=30	Pass
			6	23.11	-3.60	19.51	<=30	Pass
			13	23.04	-3.60	19.44	<=30	Pass
		25	0	23.04	-3.60	19.44	<=30	Pass
16QAM	1712.5	1	0	22.73	-3.60	19.13	<=30	Pass
			13	22.84	-3.60	19.24	<=30	Pass
			24	22.75	-3.60	19.15	<=30	Pass
		12	0	21.65	-3.60	18.05	<=30	Pass
			6	21.71	-3.60	18.11	<=30	Pass
			13	21.69	-3.60	18.09	<=30	Pass
		25	0	21.70	-3.60	18.10	<=30	Pass
	1732.5	1	0	22.92	-3.60	19.32	<=30	Pass
			13	23.06	-3.60	19.46	<=30	Pass
			24	22.94	-3.60	19.34	<=30	Pass
		12	0	21.80	-3.60	18.20	<=30	Pass
			6	21.81	-3.60	18.21	<=30	Pass
			13	21.75	-3.60	18.15	<=30	Pass
		25	0	21.74	-3.60	18.14	<=30	Pass
	1752.5	1	0	22.76	-3.60	19.16	<=30	Pass
			13	22.93	-3.60	19.33	<=30	Pass
			24	22.86	-3.60	19.26	<=30	Pass
		12	0	21.98	-3.60	18.38	<=30	Pass
			6	22.07	-3.60	18.47	<=30	Pass
			13	22.05	-3.60	18.45	<=30	Pass
		25	0	22.07	-3.60	18.47	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.71	-3.60	20.11	<=30	Pass
			25	23.91	-3.60	20.31	<=30	Pass
			49	23.71	-3.60	20.11	<=30	Pass
		25	0	22.73	-3.60	19.13	<=30	Pass
			13	22.73	-3.60	19.13	<=30	Pass
			25	22.85	-3.60	19.25	<=30	Pass
		50	0	22.73	-3.60	19.13	<=30	Pass
			0	23.72	-3.60	20.12	<=30	Pass
			25	23.90	-3.60	20.30	<=30	Pass
	1732.5	1	49	23.74	-3.60	20.14	<=30	Pass
			0	22.85	-3.60	19.25	<=30	Pass
			13	22.83	-3.60	19.23	<=30	Pass
		25	25	22.80	-3.60	19.20	<=30	Pass
			0	22.80	-3.60	19.20	<=30	Pass
			0	23.87	-3.60	20.27	<=30	Pass
		1	25	24.03	-3.60	20.43	<=30	Pass
			49	23.95	-3.60	20.35	<=30	Pass
			0	23.03	-3.60	19.43	<=30	Pass
	1750	25	13	22.99	-3.60	19.39	<=30	Pass
			25	23.05	-3.60	19.45	<=30	Pass
			0	23.05	-3.60	19.45	<=30	Pass
16QAM	1715	1	0	22.72	-3.60	19.12	<=30	Pass
			25	22.92	-3.60	19.32	<=30	Pass
			49	22.70	-3.60	19.10	<=30	Pass
		25	0	21.76	-3.60	18.16	<=30	Pass
			13	21.82	-3.60	18.22	<=30	Pass
			25	21.88	-3.60	18.28	<=30	Pass
		50	0	21.72	-3.60	18.12	<=30	Pass
			0	22.91	-3.60	19.31	<=30	Pass
			25	23.11	-3.60	19.51	<=30	Pass
	1732.5	1	49	22.95	-3.60	19.35	<=30	Pass
			0	21.86	-3.60	18.26	<=30	Pass
			13	21.82	-3.60	18.22	<=30	Pass
		25	25	21.77	-3.60	18.17	<=30	Pass
			0	21.81	-3.60	18.21	<=30	Pass
			0	23.39	-3.60	19.79	<=30	Pass
		1	25	23.63	-3.60	20.03	<=30	Pass
			49	23.55	-3.60	19.95	<=30	Pass
			0	22.04	-3.60	18.44	<=30	Pass
	1750	25	13	22.03	-3.60	18.43	<=30	Pass
			25	22.09	-3.60	18.49	<=30	Pass
			0	21.99	-3.60	18.39	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.59	-3.60	19.99	<=30	Pass
			38	23.77	-3.60	20.17	<=30	Pass
			74	23.61	-3.60	20.01	<=30	Pass
		36	0	22.75	-3.60	19.15	<=30	Pass
			18	22.85	-3.60	19.25	<=30	Pass
			39	22.91	-3.60	19.31	<=30	Pass
		75	0	22.84	-3.60	19.24	<=30	Pass
			0	23.63	-3.60	20.03	<=30	Pass
			38	23.80	-3.60	20.20	<=30	Pass
	1732.5	1	74	23.70	-3.60	20.10	<=30	Pass
			0	22.87	-3.60	19.27	<=30	Pass
			18	22.92	-3.60	19.32	<=30	Pass
		36	39	22.89	-3.60	19.29	<=30	Pass
			0	22.90	-3.60	19.30	<=30	Pass
			0	23.72	-3.60	20.12	<=30	Pass
		75	38	23.90	-3.60	20.30	<=30	Pass
			74	23.88	-3.60	20.28	<=30	Pass
			0	23.06	-3.60	19.46	<=30	Pass
	1747.5	36	18	23.03	-3.60	19.43	<=30	Pass
			39	23.06	-3.60	19.46	<=30	Pass
		75	0	23.04	-3.60	19.44	<=30	Pass
16QAM	1717.5	1	0	22.91	-3.60	19.31	<=30	Pass
			38	23.09	-3.60	19.49	<=30	Pass
			74	22.93	-3.60	19.33	<=30	Pass
		36	0	21.65	-3.60	18.05	<=30	Pass
			18	21.75	-3.60	18.15	<=30	Pass
			39	21.83	-3.60	18.23	<=30	Pass
		75	0	21.75	-3.60	18.15	<=30	Pass
			0	22.82	-3.60	19.22	<=30	Pass
			38	22.98	-3.60	19.38	<=30	Pass
	1732.5	1	74	22.88	-3.60	19.28	<=30	Pass
			0	21.83	-3.60	18.23	<=30	Pass
			18	21.83	-3.60	18.23	<=30	Pass
		36	39	21.81	-3.60	18.21	<=30	Pass
			0	21.83	-3.60	18.23	<=30	Pass
		75	0	23.25	-3.60	19.65	<=30	Pass
			38	23.46	-3.60	19.86	<=30	Pass
			74	23.46	-3.60	19.86	<=30	Pass
	1747.5	1	0	21.99	-3.60	18.39	<=30	Pass
			18	22.05	-3.60	18.45	<=30	Pass
			39	22.03	-3.60	18.43	<=30	Pass
		36	0	22.00	-3.60	18.40	<=30	Pass
			0					
			0					
		75	0					
			0					
			0					

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.40	-3.60	19.80	<=30	Pass
			50	23.84	-3.60	20.24	<=30	Pass
			99	23.43	-3.60	19.83	<=30	Pass
		50	0	22.57	-3.60	18.97	<=30	Pass
			25	22.78	-3.60	19.18	<=30	Pass
			50	22.83	-3.60	19.23	<=30	Pass
		100	0	22.69	-3.60	19.09	<=30	Pass
	1732.5	1	0	23.46	-3.60	19.86	<=30	Pass
			50	23.97	-3.60	20.37	<=30	Pass
			99	23.60	-3.60	20.00	<=30	Pass
		50	0	22.73	-3.60	19.13	<=30	Pass
			25	22.78	-3.60	19.18	<=30	Pass
			50	22.62	-3.60	19.02	<=30	Pass
		100	0	22.70	-3.60	19.10	<=30	Pass
	1745	1	0	23.49	-3.60	19.89	<=30	Pass
			50	24.11	-3.60	20.51	<=30	Pass
			99	23.80	-3.60	20.20	<=30	Pass
		50	0	23.02	-3.60	19.42	<=30	Pass
			25	23.01	-3.60	19.41	<=30	Pass
			50	22.92	-3.60	19.32	<=30	Pass
		100	0	22.98	-3.60	19.38	<=30	Pass
16QAM	1720	1	0	22.98	-3.60	19.38	<=30	Pass
			50	23.34	-3.60	19.74	<=30	Pass
			99	23.00	-3.60	19.40	<=30	Pass
		50	0	21.52	-3.60	17.92	<=30	Pass
			25	21.73	-3.60	18.13	<=30	Pass
			50	21.79	-3.60	18.19	<=30	Pass
		100	0	21.71	-3.60	18.11	<=30	Pass
	1732.5	1	0	22.69	-3.60	19.09	<=30	Pass
			50	23.15	-3.60	19.55	<=30	Pass
			99	22.86	-3.60	19.26	<=30	Pass
		50	0	21.75	-3.60	18.15	<=30	Pass
			25	21.84	-3.60	18.24	<=30	Pass
			50	21.72	-3.60	18.12	<=30	Pass
		100	0	21.71	-3.60	18.11	<=30	Pass
	1745	1	0	22.81	-3.60	19.21	<=30	Pass
			50	23.40	-3.60	19.80	<=30	Pass
			99	23.10	-3.60	19.50	<=30	Pass
		50	0	22.02	-3.60	18.42	<=30	Pass
			25	21.98	-3.60	18.38	<=30	Pass
			50	21.89	-3.60	18.29	<=30	Pass
		100	0	22.00	-3.60	18.40	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.23	4.148	0.0024	-2.5 to 2.5	Pass
					3.80	0.715	0.0004	-2.5 to 2.5	Pass
					4.37	-2.146	-0.0013	-2.5 to 2.5	Pass
				-30	3.80	-1.488	-0.0009	-2.5 to 2.5	Pass
				-20	3.80	-6.394	-0.0037	-2.5 to 2.5	Pass
				-10	3.80	-6.680	-0.0039	-2.5 to 2.5	Pass
				0	3.80	-1.545	-0.0009	-2.5 to 2.5	Pass
				10	3.80	-6.380	-0.0037	-2.5 to 2.5	Pass
				30	3.80	1.760	0.0010	-2.5 to 2.5	Pass
				40	3.80	-6.309	-0.0037	-2.5 to 2.5	Pass
				50	3.80	-3.662	-0.0021	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.23	-9.027	-0.0052	-2.5 to 2.5	Pass
					3.80	-9.241	-0.0053	-2.5 to 2.5	Pass
					4.37	-2.747	-0.0016	-2.5 to 2.5	Pass
				-30	3.80	-5.193	-0.0030	-2.5 to 2.5	Pass
				-20	3.80	-3.233	-0.0019	-2.5 to 2.5	Pass
				-10	3.80	1.202	0.0007	-2.5 to 2.5	Pass
				0	3.80	-6.595	-0.0038	-2.5 to 2.5	Pass
				10	3.80	-4.635	-0.0027	-2.5 to 2.5	Pass
				30	3.80	-4.249	-0.0025	-2.5 to 2.5	Pass
				40	3.80	0.215	0.0001	-2.5 to 2.5	Pass
				50	3.80	-4.492	-0.0026	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.23	-15.492	-0.0088	-2.5 to 2.5	Pass
					3.80	-7.439	-0.0042	-2.5 to 2.5	Pass
					4.37	1.574	0.0009	-2.5 to 2.5	Pass
				-30	3.80	-4.191	-0.0024	-2.5 to 2.5	Pass
				-20	3.80	-6.337	-0.0036	-2.5 to 2.5	Pass
				-10	3.80	-4.206	-0.0024	-2.5 to 2.5	Pass
				0	3.80	-3.219	-0.0018	-2.5 to 2.5	Pass
				10	3.80	-3.419	-0.0019	-2.5 to 2.5	Pass
				30	3.80	-3.834	-0.0022	-2.5 to 2.5	Pass
				40	3.80	-5.450	-0.0031	-2.5 to 2.5	Pass
				50	3.80	-1.674	-0.0010	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.23	-4.034	-0.0024	-2.5 to 2.5	Pass
					3.80	-10.214	-0.0060	-2.5 to 2.5	Pass
					4.37	-1.245	-0.0007	-2.5 to 2.5	Pass
				-30	3.80	-7.925	-0.0046	-2.5 to 2.5	Pass
				-20	3.80	-8.225	-0.0048	-2.5 to 2.5	Pass
				-10	3.80	-7.267	-0.0042	-2.5 to 2.5	Pass
				0	3.80	-13.347	-0.0078	-2.5 to 2.5	Pass
				10	3.80	-7.396	-0.0043	-2.5 to 2.5	Pass
				30	3.80	-8.197	-0.0048	-2.5 to 2.5	Pass
				40	3.80	-8.483	-0.0050	-2.5 to 2.5	Pass
				50	3.80	-3.390	-0.0020	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.23	-6.423	-0.0037	-2.5 to 2.5	Pass
					3.80	-4.048	-0.0023	-2.5 to 2.5	Pass
					4.37	-3.633	-0.0021	-2.5 to 2.5	Pass
				-30	3.80	1.717	0.0010	-2.5 to 2.5	Pass
				-20	3.80	-1.616	-0.0009	-2.5 to 2.5	Pass
				-10	3.80	-1.316	-0.0008	-2.5 to 2.5	Pass

				0	3.80	0.672	0.0004	-2.5 to 2.5	Pass
				10	3.80	-0.815	-0.0005	-2.5 to 2.5	Pass
				30	3.80	0.944	0.0005	-2.5 to 2.5	Pass
				40	3.80	-5.836	-0.0034	-2.5 to 2.5	Pass
				50	3.80	-0.944	-0.0005	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.23	-5.279	-0.0030	-2.5 to 2.5	Pass
					3.80	-3.619	-0.0021	-2.5 to 2.5	Pass
					4.37	-2.875	-0.0016	-2.5 to 2.5	Pass
				-30	3.80	-5.221	-0.0030	-2.5 to 2.5	Pass
				-20	3.80	-6.995	-0.0040	-2.5 to 2.5	Pass
				-10	3.80	-6.852	-0.0039	-2.5 to 2.5	Pass
				0	3.80	-13.776	-0.0079	-2.5 to 2.5	Pass
				10	3.80	2.661	0.0015	-2.5 to 2.5	Pass
				30	3.80	-4.907	-0.0028	-2.5 to 2.5	Pass
				40	3.80	-4.835	-0.0028	-2.5 to 2.5	Pass
				50	3.80	-7.038	-0.0040	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.23	3.433	0.0020	-2.5 to 2.5	Pass
					3.80	-2.732	-0.0016	-2.5 to 2.5	Pass
					4.37	0.486	0.0003	-2.5 to 2.5	Pass
				-30	3.80	6.123	0.0036	-2.5 to 2.5	Pass
				-20	3.80	3.204	0.0019	-2.5 to 2.5	Pass
				-10	3.80	-2.432	-0.0014	-2.5 to 2.5	Pass
				0	3.80	1.874	0.0011	-2.5 to 2.5	Pass
				10	3.80	-4.878	-0.0029	-2.5 to 2.5	Pass
				30	3.80	-3.848	-0.0022	-2.5 to 2.5	Pass
				40	3.80	-3.405	-0.0020	-2.5 to 2.5	Pass
				50	3.80	0.014	0.0000	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.23	-6.409	-0.0037	-2.5 to 2.5	Pass
					3.80	-13.146	-0.0076	-2.5 to 2.5	Pass
					4.37	-8.941	-0.0052	-2.5 to 2.5	Pass
				-30	3.80	-3.505	-0.0020	-2.5 to 2.5	Pass
				-20	3.80	-7.467	-0.0043	-2.5 to 2.5	Pass
				-10	3.80	-8.841	-0.0051	-2.5 to 2.5	Pass
				0	3.80	-5.007	-0.0029	-2.5 to 2.5	Pass
				10	3.80	-0.629	-0.0004	-2.5 to 2.5	Pass
				30	3.80	-4.849	-0.0028	-2.5 to 2.5	Pass
				40	3.80	4.077	0.0024	-2.5 to 2.5	Pass
				50	3.80	2.503	0.0014	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.23	-12.274	-0.0070	-2.5 to 2.5	Pass
					3.80	-12.789	-0.0073	-2.5 to 2.5	Pass
					4.37	1.116	0.0006	-2.5 to 2.5	Pass
				-30	3.80	1.845	0.0011	-2.5 to 2.5	Pass
				-20	3.80	0.958	0.0005	-2.5 to 2.5	Pass
				-10	3.80	-0.143	-0.0001	-2.5 to 2.5	Pass
				0	3.80	-7.138	-0.0041	-2.5 to 2.5	Pass
				10	3.80	-4.091	-0.0023	-2.5 to 2.5	Pass
				30	3.80	-8.354	-0.0048	-2.5 to 2.5	Pass
				40	3.80	-4.764	-0.0027	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.23	1.988	0.0012	-2.5 to 2.5	Pass
					3.80	-3.290	-0.0019	-2.5 to 2.5	Pass
					4.37	-9.842	-0.0058	-2.5 to 2.5	Pass
				-30	3.80	-5.407	-0.0032	-2.5 to 2.5	Pass
				-20	3.80	-4.320	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	-2.046	-0.0012	-2.5 to 2.5	Pass
				0	3.80	-3.276	-0.0019	-2.5 to 2.5	Pass
				10	3.80	-6.094	-0.0036	-2.5 to 2.5	Pass
				30	3.80	-6.523	-0.0038	-2.5 to 2.5	Pass
				40	3.80	-7.825	-0.0046	-2.5 to 2.5	Pass
				50	3.80	0.257	0.0002	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.23	0.458	0.0003	-2.5 to 2.5	Pass
					3.80	-0.930	-0.0005	-2.5 to 2.5	Pass
					4.37	-1.101	-0.0006	-2.5 to 2.5	Pass
				-30	3.80	-2.389	-0.0014	-2.5 to 2.5	Pass
				-20	3.80	-3.190	-0.0018	-2.5 to 2.5	Pass
				-10	3.80	-5.794	-0.0033	-2.5 to 2.5	Pass
				0	3.80	-7.753	-0.0045	-2.5 to 2.5	Pass
				10	3.80	-2.017	-0.0012	-2.5 to 2.5	Pass
				30	3.80	-3.133	-0.0018	-2.5 to 2.5	Pass
				40	3.80	-5.136	-0.0030	-2.5 to 2.5	Pass
				50	3.80	-1.245	-0.0007	-2.5 to 2.5	Pass

	1753.5	15	0	20	3.23	-8.411	-0.0048	-2.5 to 2.5	Pass
					3.80	4.506	0.0026	-2.5 to 2.5	Pass
					4.37	-6.466	-0.0037	-2.5 to 2.5	Pass
				-30	3.80	-2.432	-0.0014	-2.5 to 2.5	Pass
				-20	3.80	-2.818	-0.0016	-2.5 to 2.5	Pass
				-10	3.80	-11.601	-0.0066	-2.5 to 2.5	Pass
				0	3.80	-9.055	-0.0052	-2.5 to 2.5	Pass
				10	3.80	-3.505	-0.0020	-2.5 to 2.5	Pass
				30	3.80	-5.794	-0.0033	-2.5 to 2.5	Pass
				40	3.80	-4.463	-0.0025	-2.5 to 2.5	Pass
				50	3.80	-5.965	-0.0034	-2.5 to 2.5	Pass

2.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.23	-9.327	-0.0054	-2.5 to 2.5	Pass
					3.80	-2.961	-0.0017	-2.5 to 2.5	Pass
					4.37	-2.561	-0.0015	-2.5 to 2.5	Pass
				-30	3.80	-2.661	-0.0016	-2.5 to 2.5	Pass
				-20	3.80	-4.892	-0.0029	-2.5 to 2.5	Pass
				-10	3.80	-3.133	-0.0018	-2.5 to 2.5	Pass
				0	3.80	-4.220	-0.0025	-2.5 to 2.5	Pass
				10	3.80	-3.762	-0.0022	-2.5 to 2.5	Pass
				30	3.80	-3.619	-0.0021	-2.5 to 2.5	Pass
				40	3.80	1.659	0.0010	-2.5 to 2.5	Pass
				50	3.80	-2.961	-0.0017	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.23	-10.571	-0.0061	-2.5 to 2.5	Pass
					3.80	-7.467	-0.0043	-2.5 to 2.5	Pass
					4.37	-0.830	-0.0005	-2.5 to 2.5	Pass
				-30	3.80	-7.067	-0.0041	-2.5 to 2.5	Pass
				-20	3.80	3.304	0.0019	-2.5 to 2.5	Pass
				-10	3.80	-1.016	-0.0006	-2.5 to 2.5	Pass
				0	3.80	-10.614	-0.0061	-2.5 to 2.5	Pass
				10	3.80	-7.052	-0.0041	-2.5 to 2.5	Pass
				30	3.80	-7.439	-0.0043	-2.5 to 2.5	Pass
				40	3.80	0.043	0.0000	-2.5 to 2.5	Pass
				50	3.80	-2.289	-0.0013	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.23	-15.006	-0.0086	-2.5 to 2.5	Pass
					3.80	-4.377	-0.0025	-2.5 to 2.5	Pass
					4.37	-0.172	-0.0001	-2.5 to 2.5	Pass
				-30	3.80	-2.389	-0.0014	-2.5 to 2.5	Pass
				-20	3.80	-5.822	-0.0033	-2.5 to 2.5	Pass
				-10	3.80	1.216	0.0007	-2.5 to 2.5	Pass
				0	3.80	-5.536	-0.0032	-2.5 to 2.5	Pass
				10	3.80	-4.921	-0.0028	-2.5 to 2.5	Pass
				30	3.80	-4.020	-0.0023	-2.5 to 2.5	Pass
				40	3.80	-3.047	-0.0017	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.23	0.944	0.0006	-2.5 to 2.5	Pass
					3.80	0.730	0.0004	-2.5 to 2.5	Pass
					4.37	0.257	0.0002	-2.5 to 2.5	Pass
				-30	3.80	3.176	0.0019	-2.5 to 2.5	Pass
				-20	3.80	0.658	0.0004	-2.5 to 2.5	Pass
				-10	3.80	2.546	0.0015	-2.5 to 2.5	Pass
				0	3.80	-3.791	-0.0022	-2.5 to 2.5	Pass
				10	3.80	0.429	0.0003	-2.5 to 2.5	Pass
				30	3.80	-3.490	-0.0020	-2.5 to 2.5	Pass
				40	3.80	-3.033	-0.0018	-2.5 to 2.5	Pass
				50	3.80	-6.495	-0.0038	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.23	-8.740	-0.0050	-2.5 to 2.5	Pass
					3.80	-3.347	-0.0019	-2.5 to 2.5	Pass
					4.37	-1.616	-0.0009	-2.5 to 2.5	Pass
				-30	3.80	-5.722	-0.0033	-2.5 to 2.5	Pass
				-20	3.80	-4.292	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	-0.801	-0.0005	-2.5 to 2.5	Pass
				0	3.80	0.129	0.0001	-2.5 to 2.5	Pass
				10	3.80	-2.017	-0.0012	-2.5 to 2.5	Pass
				30	3.80	-4.220	-0.0024	-2.5 to 2.5	Pass
				40	3.80	4.220	0.0024	-2.5 to 2.5	Pass
				50	3.80	-1.760	-0.0010	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.23	-2.446	-0.0014	-2.5 to 2.5	Pass
					3.80	-6.180	-0.0035	-2.5 to 2.5	Pass
					4.37	-9.398	-0.0054	-2.5 to 2.5	Pass
				-30	3.80	-0.772	-0.0004	-2.5 to 2.5	Pass
				-20	3.80	-1.044	-0.0006	-2.5 to 2.5	Pass
				-10	3.80	1.130	0.0006	-2.5 to 2.5	Pass
				0	3.80	-5.221	-0.0030	-2.5 to 2.5	Pass
				10	3.80	1.416	0.0008	-2.5 to 2.5	Pass
				30	3.80	-5.836	-0.0033	-2.5 to 2.5	Pass
				40	3.80	-3.562	-0.0020	-2.5 to 2.5	Pass
				50	3.80	-4.992	-0.0028	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.23	-9.913	-0.0058	-2.5 to 2.5	Pass
					3.80	-4.435	-0.0026	-2.5 to 2.5	Pass
					4.37	-2.947	-0.0017	-2.5 to 2.5	Pass
				-30	3.80	-6.866	-0.0040	-2.5 to 2.5	Pass
				-20	3.80	-2.232	-0.0013	-2.5 to 2.5	Pass
				-10	3.80	-3.662	-0.0021	-2.5 to 2.5	Pass
				0	3.80	-5.021	-0.0029	-2.5 to 2.5	Pass
				10	3.80	-5.722	-0.0033	-2.5 to 2.5	Pass
				30	3.80	-3.119	-0.0018	-2.5 to 2.5	Pass
				40	3.80	-7.367	-0.0043	-2.5 to 2.5	Pass
				50	3.80	-7.854	-0.0046	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.23	-7.253	-0.0042	-2.5 to 2.5	Pass
					3.80	-4.206	-0.0024	-2.5 to 2.5	Pass
					4.37	-6.151	-0.0036	-2.5 to 2.5	Pass
				-30	3.80	-6.824	-0.0039	-2.5 to 2.5	Pass
				-20	3.80	-4.406	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	-2.289	-0.0013	-2.5 to 2.5	Pass
				0	3.80	-1.674	-0.0010	-2.5 to 2.5	Pass
				10	3.80	-1.531	-0.0009	-2.5 to 2.5	Pass
				30	3.80	-3.133	-0.0018	-2.5 to 2.5	Pass
				40	3.80	-6.938	-0.0040	-2.5 to 2.5	Pass
				50	3.80	-4.878	-0.0028	-2.5 to 2.5	Pass
	1750	50	0	20	3.23	-9.170	-0.0052	-2.5 to 2.5	Pass
					3.80	-3.676	-0.0021	-2.5 to 2.5	Pass
					4.37	-4.163	-0.0024	-2.5 to 2.5	Pass
				-30	3.80	-4.106	-0.0023	-2.5 to 2.5	Pass
				-20	3.80	-5.336	-0.0030	-2.5 to 2.5	Pass
				-10	3.80	-6.537	-0.0037	-2.5 to 2.5	Pass
				0	3.80	-5.007	-0.0029	-2.5 to 2.5	Pass
				10	3.80	-3.662	-0.0021	-2.5 to 2.5	Pass
				30	3.80	-5.064	-0.0029	-2.5 to 2.5	Pass
				40	3.80	-0.587	-0.0003	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.23	-6.766	-0.0039	-2.5 to 2.5	Pass
					3.80	-6.251	-0.0036	-2.5 to 2.5	Pass
					4.37	-4.721	-0.0028	-2.5 to 2.5	Pass
				-30	3.80	-6.466	-0.0038	-2.5 to 2.5	Pass
				-20	3.80	-3.891	-0.0023	-2.5 to 2.5	Pass
				-10	3.80	-3.362	-0.0020	-2.5 to 2.5	Pass
				0	3.80	-10.228	-0.0060	-2.5 to 2.5	Pass
				10	3.80	-5.708	-0.0033	-2.5 to 2.5	Pass
				30	3.80	-7.038	-0.0041	-2.5 to 2.5	Pass
				40	3.80	-9.198	-0.0054	-2.5 to 2.5	Pass
				50	3.80	-7.238	-0.0042	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.23	-3.805	-0.0022	-2.5 to 2.5	Pass
					3.80	-2.861	-0.0017	-2.5 to 2.5	Pass
					4.37	-1.273	-0.0007	-2.5 to 2.5	Pass
				-30	3.80	-7.896	-0.0046	-2.5 to 2.5	Pass
				-20	3.80	-9.756	-0.0056	-2.5 to 2.5	Pass
				-10	3.80	-7.954	-0.0046	-2.5 to 2.5	Pass
				0	3.80	-5.193	-0.0030	-2.5 to 2.5	Pass
				10	3.80	-6.366	-0.0037	-2.5 to 2.5	Pass
				30	3.80	-6.480	-0.0037	-2.5 to 2.5	Pass
				40	3.80	-0.472	-0.0003	-2.5 to 2.5	Pass
				50	3.80	-6.738	-0.0039	-2.5 to 2.5	Pass

	1750	50	0	20	3.23	-4.849	-0.0028	-2.5 to 2.5	Pass
					3.80	-5.264	-0.0030	-2.5 to 2.5	Pass
					4.37	-2.990	-0.0017	-2.5 to 2.5	Pass
				-30	3.80	-5.765	-0.0033	-2.5 to 2.5	Pass
				-20	3.80	-5.851	-0.0033	-2.5 to 2.5	Pass
				-10	3.80	-6.466	-0.0037	-2.5 to 2.5	Pass
				0	3.80	-2.403	-0.0014	-2.5 to 2.5	Pass
				10	3.80	-2.346	-0.0013	-2.5 to 2.5	Pass
				30	3.80	-1.316	-0.0008	-2.5 to 2.5	Pass
				40	3.80	-7.796	-0.0045	-2.5 to 2.5	Pass
				50	3.80	-4.106	-0.0023	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.23	-4.706	-0.0027	-2.5 to 2.5	Pass
					3.80	-5.765	-0.0034	-2.5 to 2.5	Pass
					4.37	-7.224	-0.0042	-2.5 to 2.5	Pass
				-30	3.80	-5.994	-0.0035	-2.5 to 2.5	Pass
				-20	3.80	-1.659	-0.0010	-2.5 to 2.5	Pass
				-10	3.80	-7.939	-0.0046	-2.5 to 2.5	Pass
				0	3.80	-8.898	-0.0052	-2.5 to 2.5	Pass
				10	3.80	-9.656	-0.0056	-2.5 to 2.5	Pass
				30	3.80	-4.349	-0.0025	-2.5 to 2.5	Pass
				40	3.80	-3.104	-0.0018	-2.5 to 2.5	Pass
				50	3.80	-6.380	-0.0037	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.23	-8.397	-0.0048	-2.5 to 2.5	Pass
					3.80	-4.435	-0.0026	-2.5 to 2.5	Pass
					4.37	-6.781	-0.0039	-2.5 to 2.5	Pass
				-30	3.80	-9.828	-0.0057	-2.5 to 2.5	Pass
				-20	3.80	-6.566	-0.0038	-2.5 to 2.5	Pass
				-10	3.80	-4.835	-0.0028	-2.5 to 2.5	Pass
				0	3.80	-1.802	-0.0010	-2.5 to 2.5	Pass
				10	3.80	-0.157	-0.0001	-2.5 to 2.5	Pass
				30	3.80	0.000	0.0000	-2.5 to 2.5	Pass
				40	3.80	0.615	0.0004	-2.5 to 2.5	Pass
				50	3.80	-0.215	-0.0001	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.23	-9.913	-0.0057	-2.5 to 2.5	Pass
					3.80	-3.748	-0.0021	-2.5 to 2.5	Pass
					4.37	-4.406	-0.0025	-2.5 to 2.5	Pass
				-30	3.80	-5.164	-0.0030	-2.5 to 2.5	Pass
				-20	3.80	-6.251	-0.0036	-2.5 to 2.5	Pass
				-10	3.80	-6.523	-0.0037	-2.5 to 2.5	Pass
				0	3.80	-6.337	-0.0036	-2.5 to 2.5	Pass
				10	3.80	-4.449	-0.0025	-2.5 to 2.5	Pass
				30	3.80	-3.805	-0.0022	-2.5 to 2.5	Pass
				40	3.80	-2.689	-0.0015	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.23	-6.866	-0.0040	-2.5 to 2.5	Pass
					3.80	-3.748	-0.0022	-2.5 to 2.5	Pass
					4.37	-5.822	-0.0034	-2.5 to 2.5	Pass
				-30	3.80	-5.364	-0.0031	-2.5 to 2.5	Pass
				-20	3.80	-4.306	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	-4.020	-0.0023	-2.5 to 2.5	Pass
				0	3.80	-5.479	-0.0032	-2.5 to 2.5	Pass
				10	3.80	-1.702	-0.0010	-2.5 to 2.5	Pass
				30	3.80	-1.431	-0.0008	-2.5 to 2.5	Pass
				40	3.80	-2.146	-0.0012	-2.5 to 2.5	Pass
				50	3.80	-6.409	-0.0037	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.23	-4.292	-0.0025	-2.5 to 2.5	Pass
					3.80	-5.393	-0.0031	-2.5 to 2.5	Pass
					4.37	-5.264	-0.0030	-2.5 to 2.5	Pass
				-30	3.80	-6.766	-0.0039	-2.5 to 2.5	Pass
				-20	3.80	-4.807	-0.0028	-2.5 to 2.5	Pass
				-10	3.80	-4.649	-0.0027	-2.5 to 2.5	Pass
				0	3.80	-3.519	-0.0020	-2.5 to 2.5	Pass
				10	3.80	-7.396	-0.0043	-2.5 to 2.5	Pass
				30	3.80	-5.093	-0.0029	-2.5 to 2.5	Pass
				40	3.80	-6.180	-0.0036	-2.5 to 2.5	Pass
				50	3.80	-1.631	-0.0009	-2.5 to 2.5	Pass

	1747.5	75	0	20	3.23	-2.503	-0.0014	-2.5 to 2.5	Pass
					3.80	-7.181	-0.0041	-2.5 to 2.5	Pass
					4.37	-7.896	-0.0045	-2.5 to 2.5	Pass
				-30	3.80	-7.339	-0.0042	-2.5 to 2.5	Pass
				-20	3.80	-10.400	-0.0060	-2.5 to 2.5	Pass
				-10	3.80	-7.825	-0.0045	-2.5 to 2.5	Pass
				0	3.80	-5.593	-0.0032	-2.5 to 2.5	Pass
				10	3.80	-4.992	-0.0029	-2.5 to 2.5	Pass
				30	3.80	-2.747	-0.0016	-2.5 to 2.5	Pass
				40	3.80	-3.777	-0.0022	-2.5 to 2.5	Pass
				50	3.80	-10.314	-0.0059	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.23	-6.022	-0.0035	-2.5 to 2.5	Pass
					3.80	-2.933	-0.0017	-2.5 to 2.5	Pass
					4.37	-4.606	-0.0027	-2.5 to 2.5	Pass
				-30	3.80	-5.164	-0.0030	-2.5 to 2.5	Pass
				-20	3.80	-7.539	-0.0044	-2.5 to 2.5	Pass
				-10	3.80	-7.052	-0.0041	-2.5 to 2.5	Pass
				0	3.80	-6.466	-0.0038	-2.5 to 2.5	Pass
				10	3.80	-4.892	-0.0028	-2.5 to 2.5	Pass
				30	3.80	-4.649	-0.0027	-2.5 to 2.5	Pass
				40	3.80	-8.411	-0.0049	-2.5 to 2.5	Pass
				50	3.80	-7.038	-0.0041	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.23	-3.734	-0.0022	-2.5 to 2.5	Pass
					3.80	-1.445	-0.0008	-2.5 to 2.5	Pass
					4.37	-1.373	-0.0008	-2.5 to 2.5	Pass
				-30	3.80	-4.907	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	-2.232	-0.0013	-2.5 to 2.5	Pass
				-10	3.80	-5.379	-0.0031	-2.5 to 2.5	Pass
				0	3.80	-1.659	-0.0010	-2.5 to 2.5	Pass
				10	3.80	-4.191	-0.0024	-2.5 to 2.5	Pass
				30	3.80	-3.662	-0.0021	-2.5 to 2.5	Pass
				40	3.80	0.014	0.0000	-2.5 to 2.5	Pass
				50	3.80	-1.388	-0.0008	-2.5 to 2.5	Pass
	1745	100	0	20	3.23	-3.090	-0.0018	-2.5 to 2.5	Pass
					3.80	-9.012	-0.0052	-2.5 to 2.5	Pass
					4.37	-4.478	-0.0026	-2.5 to 2.5	Pass
				-30	3.80	-3.977	-0.0023	-2.5 to 2.5	Pass
				-20	3.80	-3.433	-0.0020	-2.5 to 2.5	Pass
				-10	3.80	-2.789	-0.0016	-2.5 to 2.5	Pass
				0	3.80	-6.022	-0.0035	-2.5 to 2.5	Pass
				10	3.80	-1.559	-0.0009	-2.5 to 2.5	Pass
				30	3.80	-2.861	-0.0016	-2.5 to 2.5	Pass
				40	3.80	-3.033	-0.0017	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.23	-7.038	-0.0041	-2.5 to 2.5	Pass
					3.80	-4.950	-0.0029	-2.5 to 2.5	Pass
					4.37	-9.170	-0.0053	-2.5 to 2.5	Pass
				-30	3.80	-5.279	-0.0031	-2.5 to 2.5	Pass
				-20	3.80	-6.108	-0.0036	-2.5 to 2.5	Pass
				-10	3.80	-7.296	-0.0042	-2.5 to 2.5	Pass
				0	3.80	-10.743	-0.0062	-2.5 to 2.5	Pass
				10	3.80	-7.467	-0.0043	-2.5 to 2.5	Pass
				30	3.80	-7.653	-0.0044	-2.5 to 2.5	Pass
				40	3.80	-8.798	-0.0051	-2.5 to 2.5	Pass
				50	3.80	-3.219	-0.0019	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.23	-5.350	-0.0031	-2.5 to 2.5	Pass
					3.80	-3.805	-0.0022	-2.5 to 2.5	Pass
					4.37	-2.818	-0.0016	-2.5 to 2.5	Pass
				-30	3.80	-4.077	-0.0024	-2.5 to 2.5	Pass
				-20	3.80	-4.692	-0.0027	-2.5 to 2.5	Pass
				-10	3.80	-1.645	-0.0009	-2.5 to 2.5	Pass
				0	3.80	-7.296	-0.0042	-2.5 to 2.5	Pass
				10	3.80	-3.605	-0.0021	-2.5 to 2.5	Pass
				30	3.80	-2.017	-0.0012	-2.5 to 2.5	Pass
				40	3.80	-0.758	-0.0004	-2.5 to 2.5	Pass
				50	3.80	-1.945	-0.0011	-2.5 to 2.5	Pass

	1745	100	0	20	3.23	-1.402	-0.0008	-2.5 to 2.5	Pass
					3.80	-0.687	-0.0004	-2.5 to 2.5	Pass
					4.37	-1.674	-0.0010	-2.5 to 2.5	Pass
				-30	3.80	-1.817	-0.0010	-2.5 to 2.5	Pass
				-20	3.80	-0.515	-0.0003	-2.5 to 2.5	Pass
				-10	3.80	-2.332	-0.0013	-2.5 to 2.5	Pass
				0	3.80	1.159	0.0007	-2.5 to 2.5	Pass
				10	3.80	-6.394	-0.0037	-2.5 to 2.5	Pass
				30	3.80	-1.101	-0.0006	-2.5 to 2.5	Pass
				40	3.80	-0.529	-0.0003	-2.5 to 2.5	Pass
				50	3.80	-0.486	-0.0003	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTV						
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 / NTV						
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

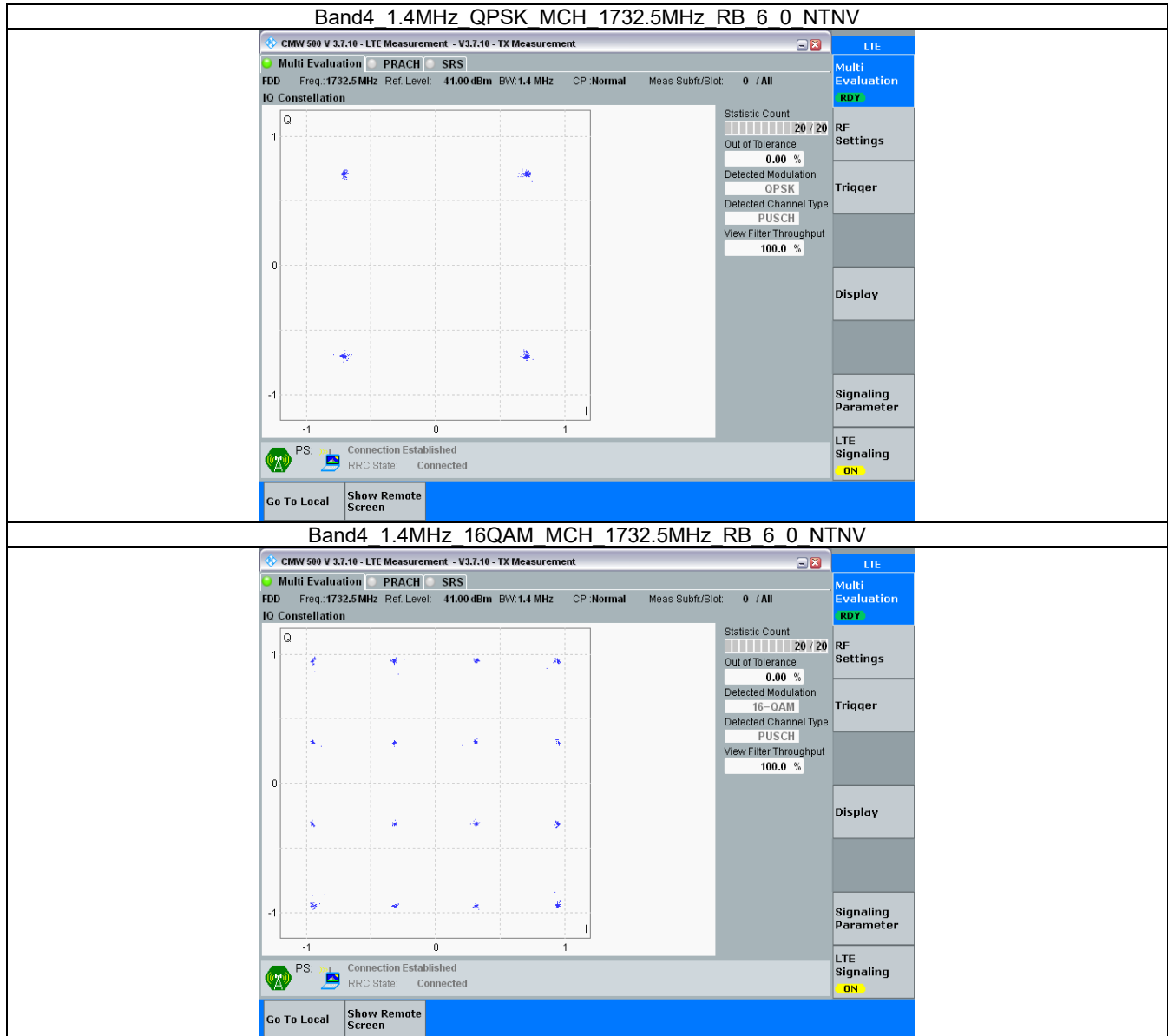
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

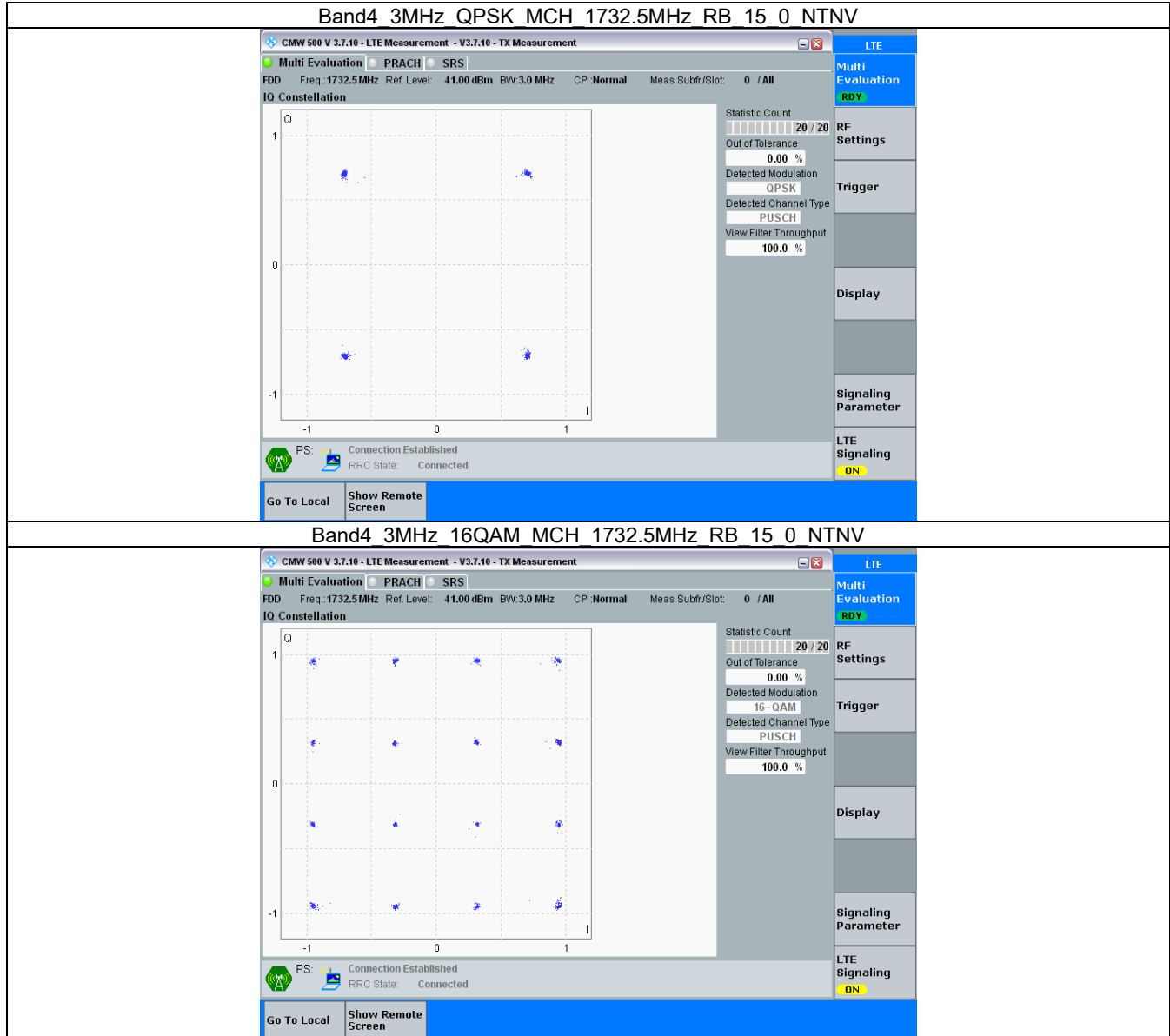
Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

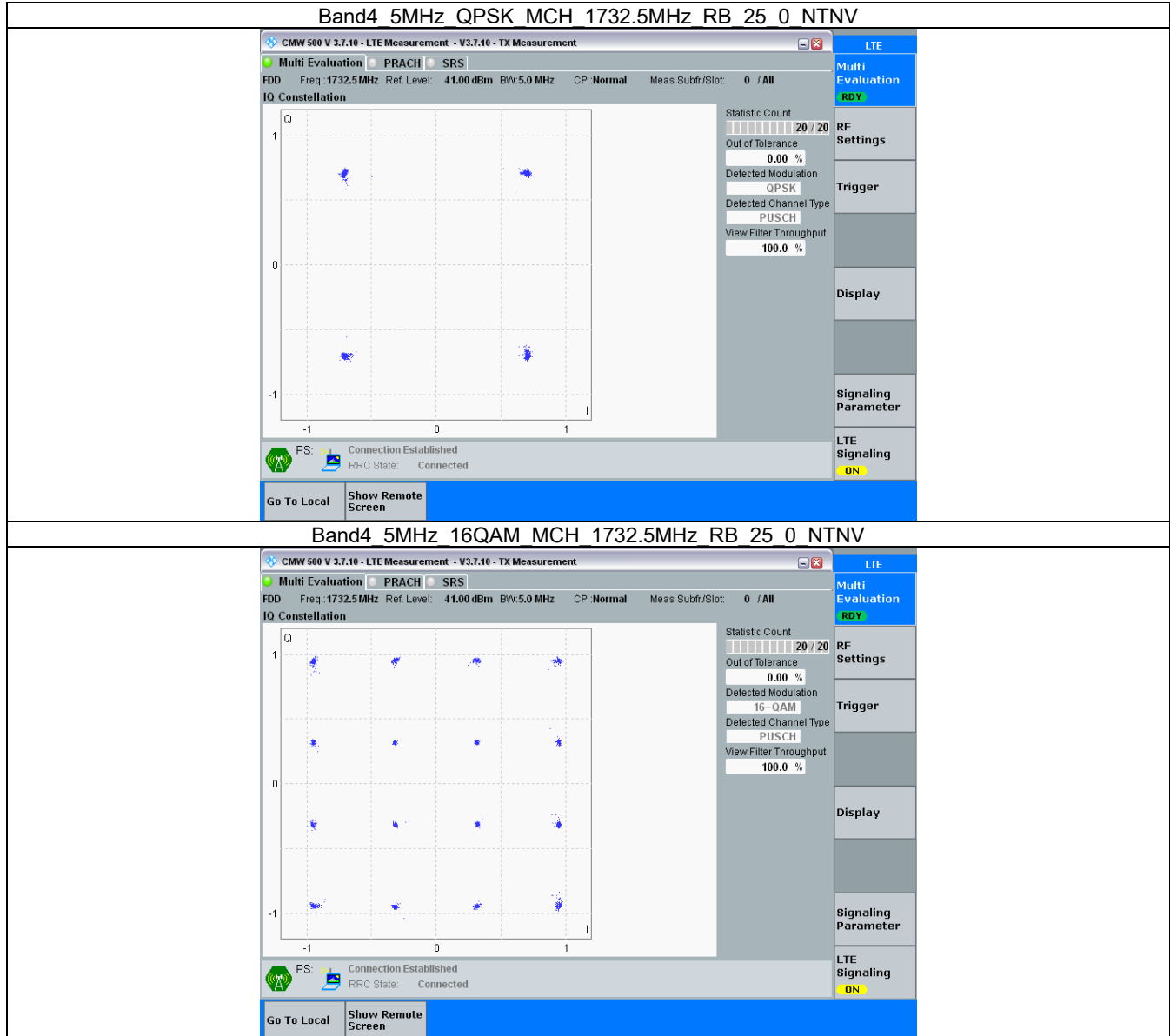
3.2.1 B4_1.4MHz



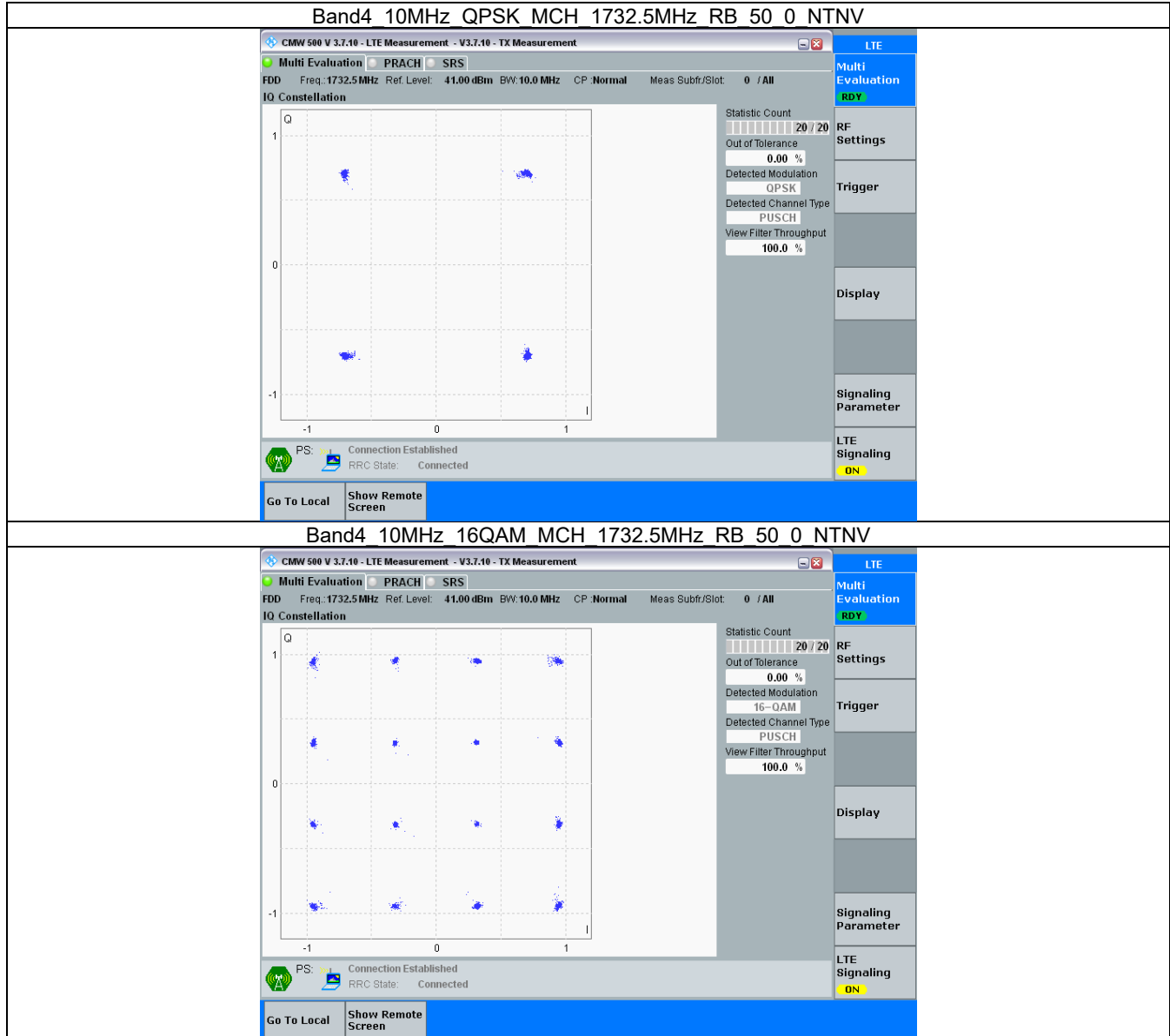
3.2.2 B4_3MHz



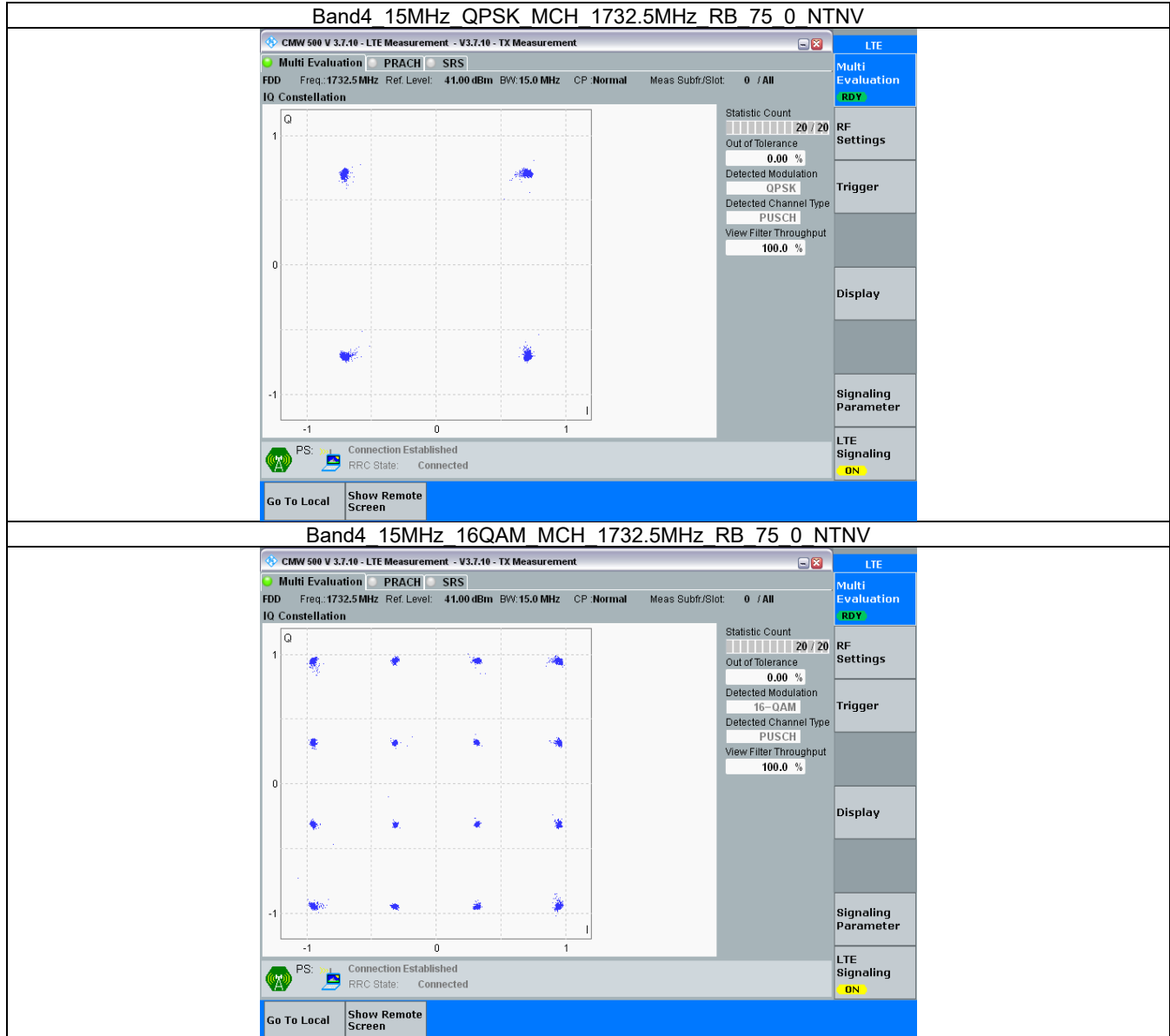
3.2.3 B4_5MHz



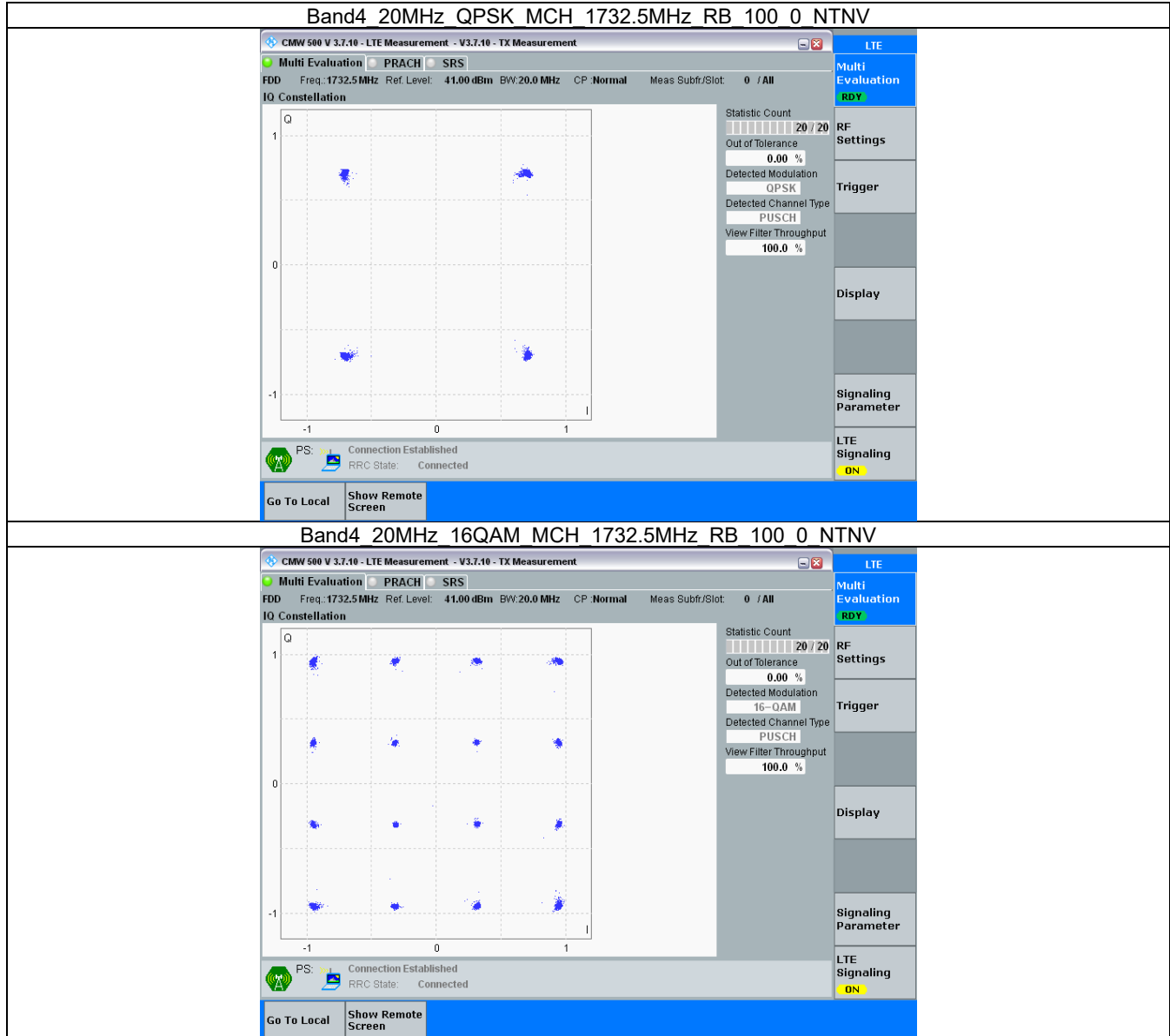
3.2.4 B4_10MHz



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 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.117	/	Pass
		1732.5	6	0	1.107	/	Pass
		1754.3	6	0	1.111	/	Pass
	16QAM	1710.7	6	0	1.101	/	Pass
		1732.5	6	0	1.120	/	Pass
		1754.3	6	0	1.109	/	Pass
3	QPSK	1711.5	15	0	2.728	/	Pass
		1732.5	15	0	2.728	/	Pass
		1753.5	15	0	2.721	/	Pass
	16QAM	1711.5	15	0	2.721	/	Pass
		1732.5	15	0	2.723	/	Pass
		1753.5	15	0	2.729	/	Pass
5	QPSK	1712.5	25	0	4.535	/	Pass
		1732.5	25	0	4.541	/	Pass
		1752.5	25	0	4.552	/	Pass
	16QAM	1712.5	25	0	4.550	/	Pass
		1732.5	25	0	4.549	/	Pass
		1752.5	25	0	4.535	/	Pass
10	QPSK	1715	50	0	9.069	/	Pass
		1732.5	50	0	9.050	/	Pass
		1750	50	0	9.061	/	Pass
	16QAM	1715	50	0	9.038	/	Pass
		1732.5	50	0	9.056	/	Pass
		1750	50	0	9.073	/	Pass
15	QPSK	1717.5	75	0	13.555	/	Pass
		1732.5	75	0	13.589	/	Pass
		1747.5	75	0	13.626	/	Pass
	16QAM	1717.5	75	0	13.599	/	Pass
		1732.5	75	0	13.590	/	Pass
		1747.5	75	0	13.617	/	Pass
20	QPSK	1720	100	0	18.093	/	Pass
		1732.5	100	0	18.153	/	Pass
		1745	100	0	18.199	/	Pass
	16QAM	1720	100	0	18.084	/	Pass
		1732.5	100	0	18.124	/	Pass
		1745	100	0	18.168	/	Pass

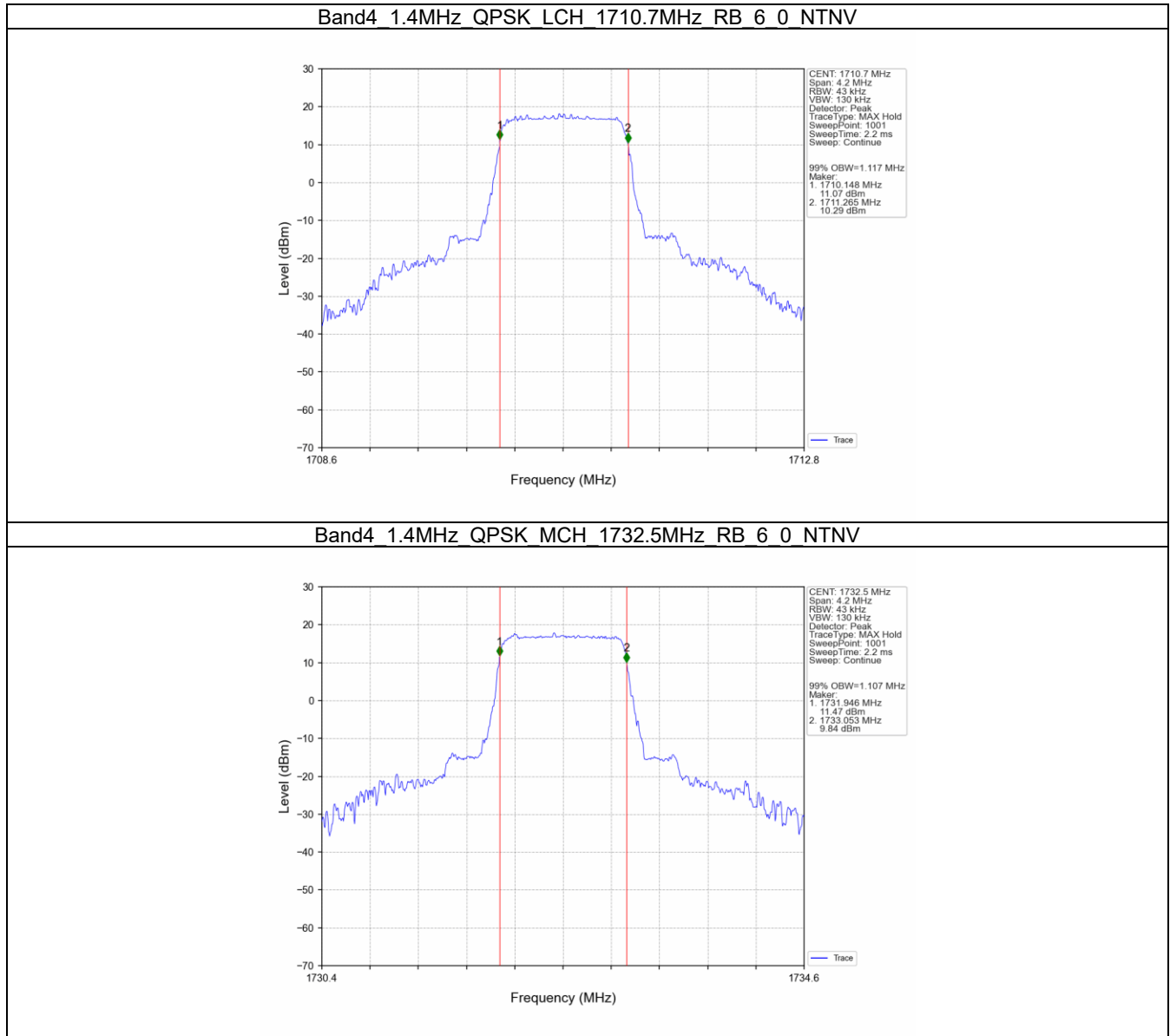
4.1.2 Band4_XDB

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.328	/	Pass
		1732.5	6	0	1.318	/	Pass
		1754.3	6	0	1.329	/	Pass
	16QAM	1710.7	6	0	1.303	/	Pass
		1732.5	6	0	1.320	/	Pass
		1754.3	6	0	1.310	/	Pass
3	QPSK	1711.5	15	0	3.008	/	Pass

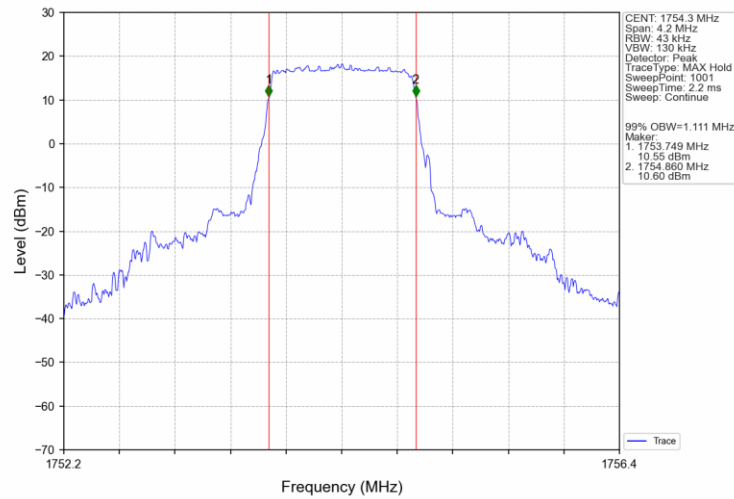
	16QAM	1732.5	15	0	3.010	/	Pass
		1753.5	15	0	2.995	/	Pass
		1711.5	15	0	2.990	/	Pass
		1732.5	15	0	3.008	/	Pass
		1753.5	15	0	3.004	/	Pass
5	QPSK	1712.5	25	0	5.082	/	Pass
		1732.5	25	0	5.012	/	Pass
		1752.5	25	0	5.017	/	Pass
	16QAM	1712.5	25	0	5.064	/	Pass
		1732.5	25	0	4.966	/	Pass
		1752.5	25	0	5.020	/	Pass
10	QPSK	1715	50	0	9.936	/	Pass
		1732.5	50	0	9.902	/	Pass
		1750	50	0	9.992	/	Pass
	16QAM	1715	50	0	9.942	/	Pass
		1732.5	50	0	9.881	/	Pass
		1750	50	0	9.952	/	Pass
15	QPSK	1717.5	75	0	14.915	/	Pass
		1732.5	75	0	14.867	/	Pass
		1747.5	75	0	14.980	/	Pass
	16QAM	1717.5	75	0	14.853	/	Pass
		1732.5	75	0	14.880	/	Pass
		1747.5	75	0	14.897	/	Pass
20	QPSK	1720	100	0	19.762	/	Pass
		1732.5	100	0	19.760	/	Pass
		1745	100	0	19.827	/	Pass
	16QAM	1720	100	0	19.659	/	Pass
		1732.5	100	0	19.645	/	Pass
		1745	100	0	19.674	/	Pass

4.2 Test Graph

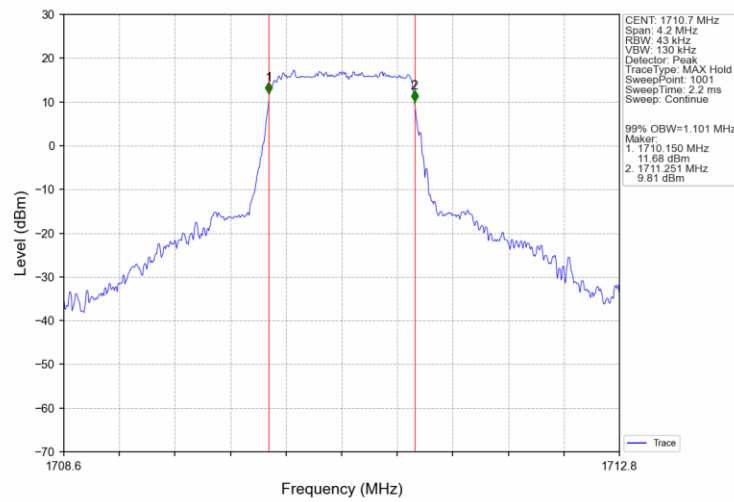
4.2.1 Band4_OBW



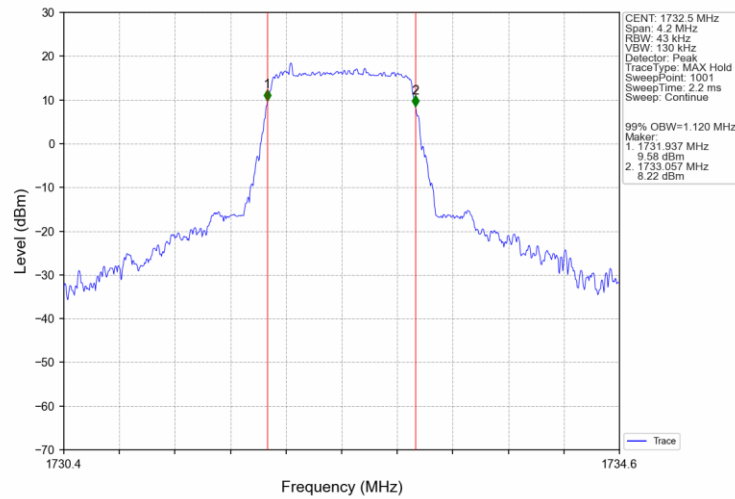
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



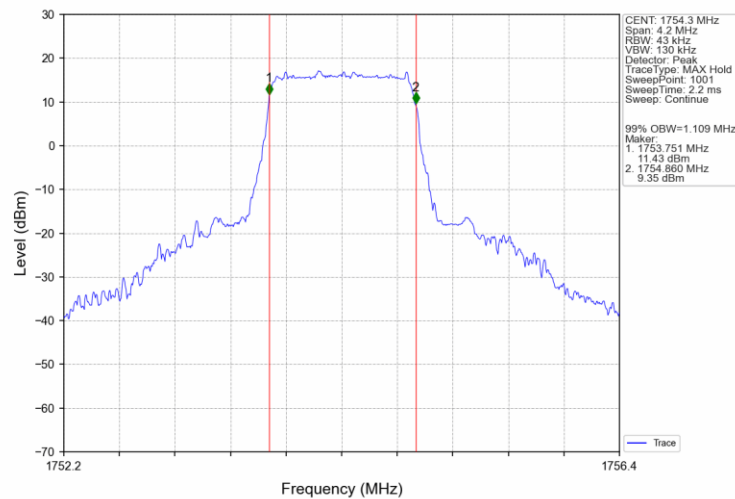
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



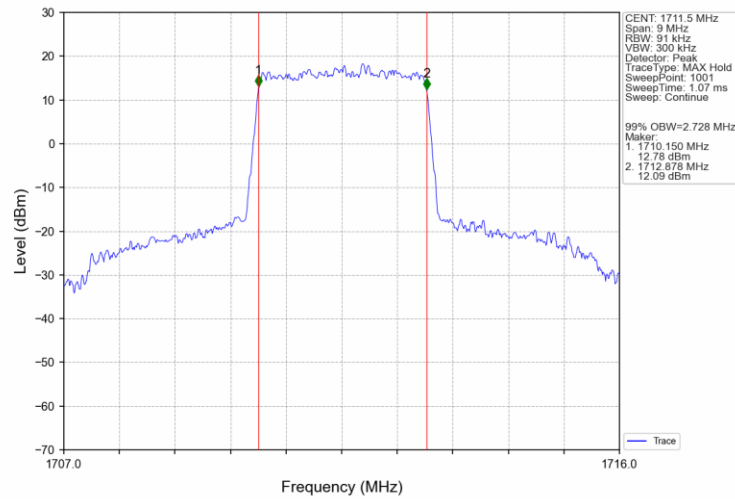
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



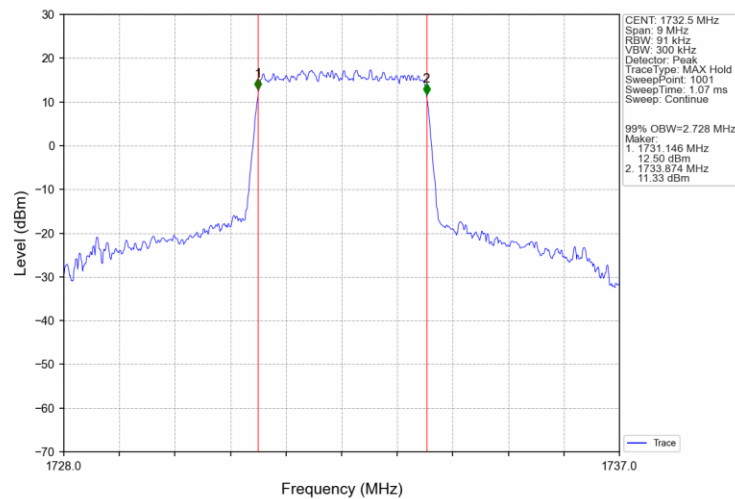
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



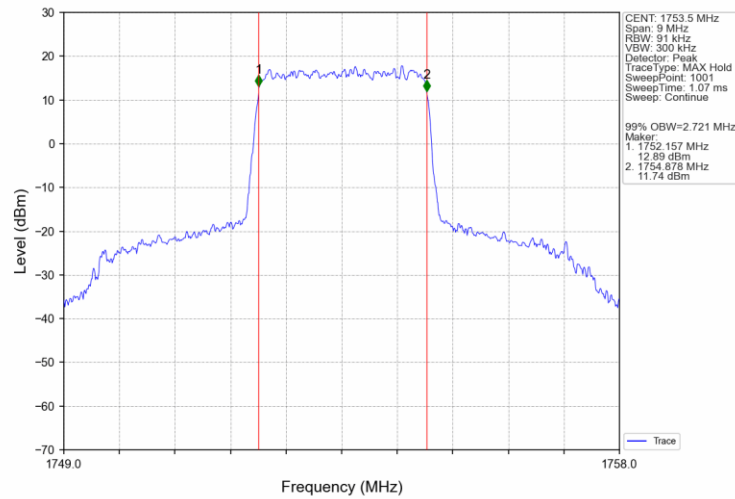
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



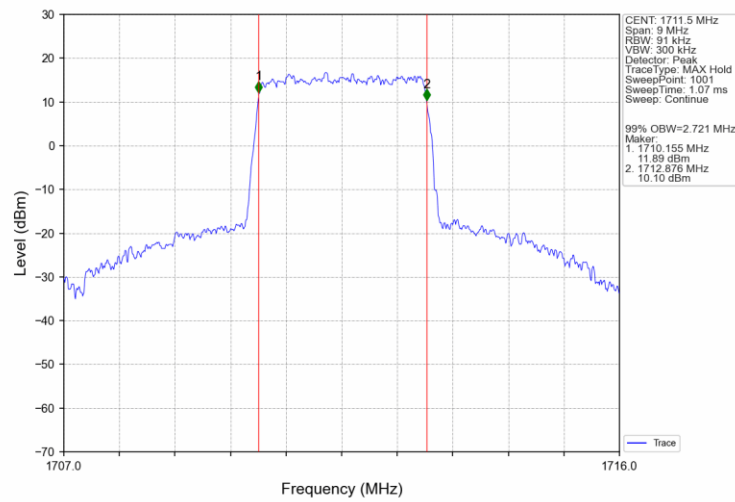
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



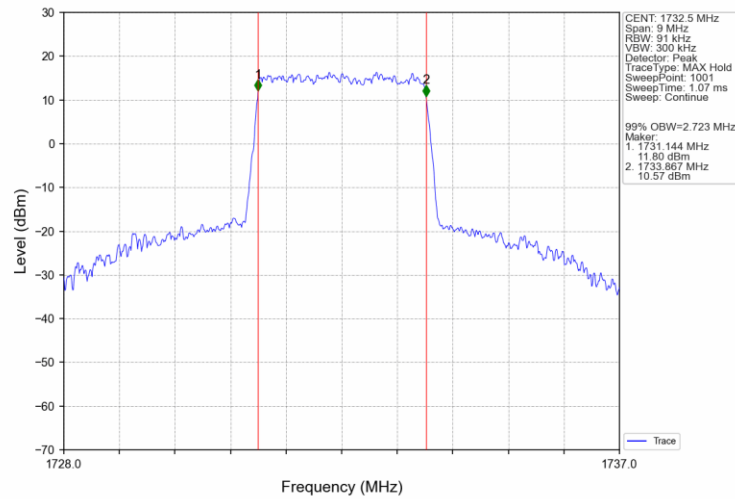
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



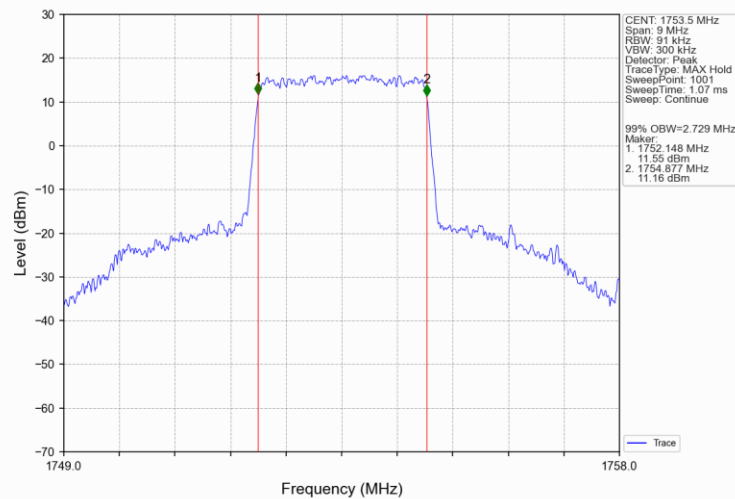
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



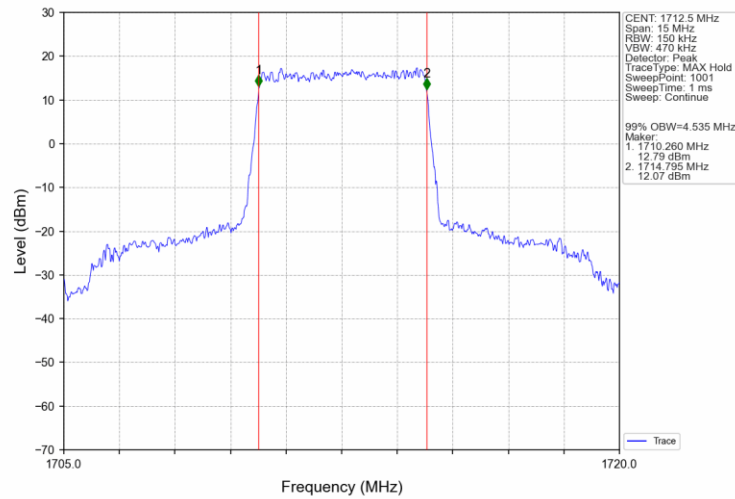
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



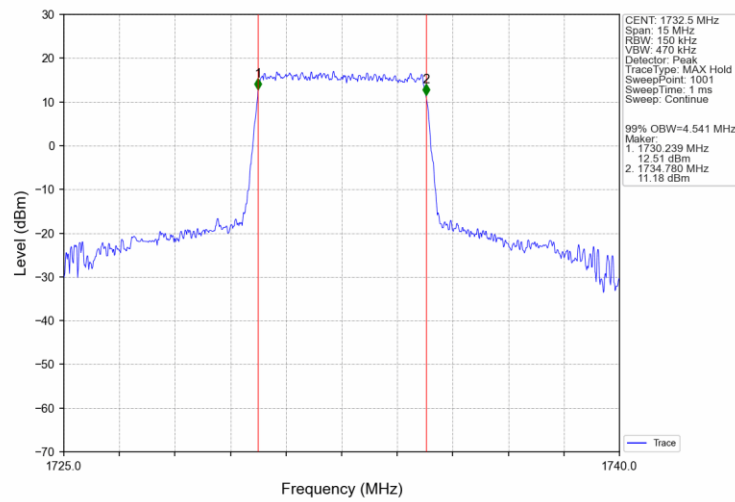
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



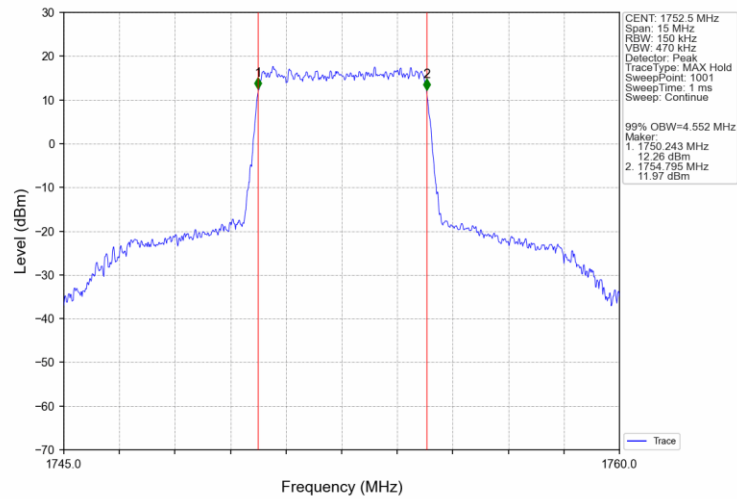
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



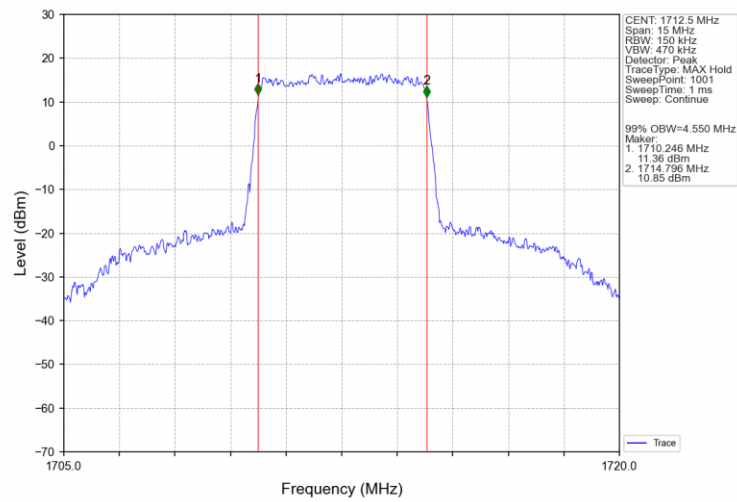
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



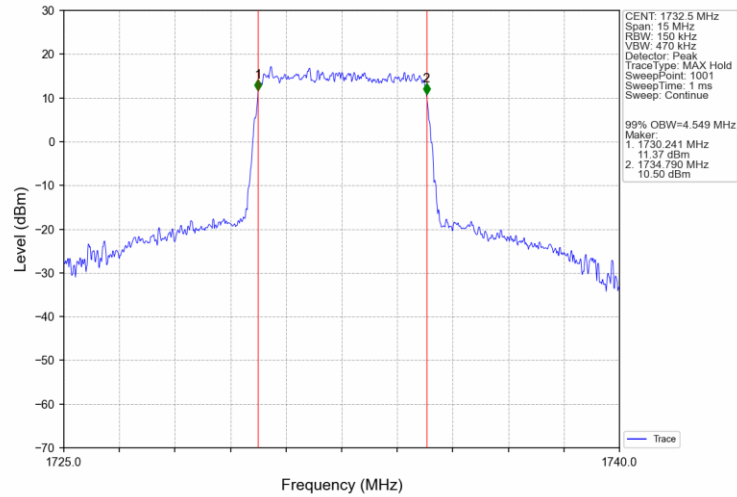
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



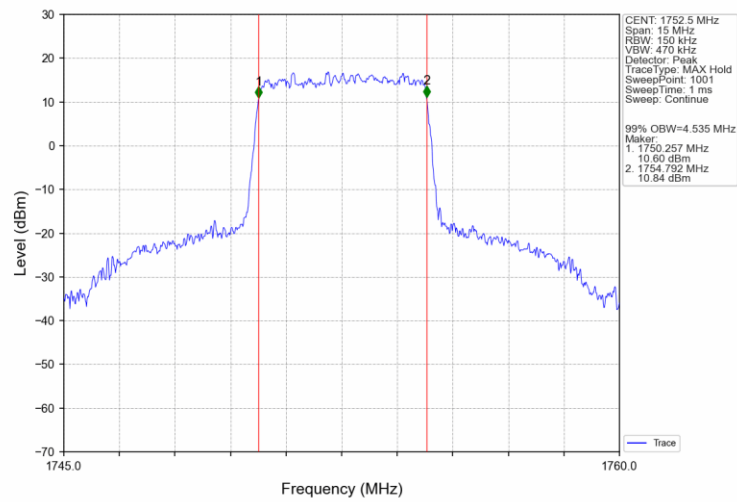
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



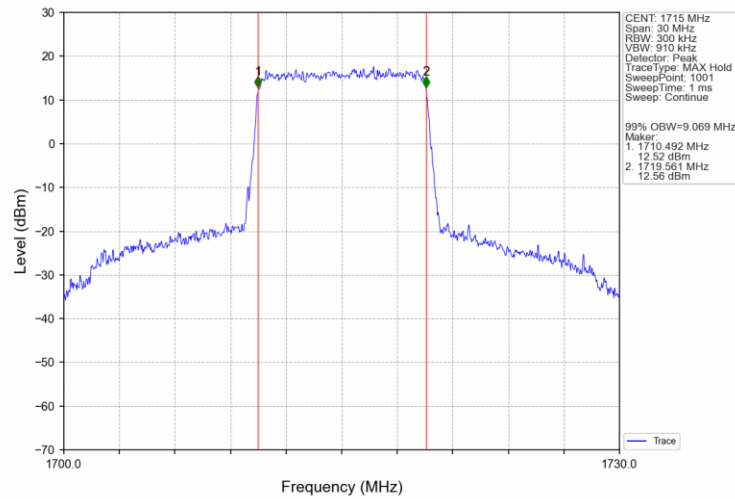
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



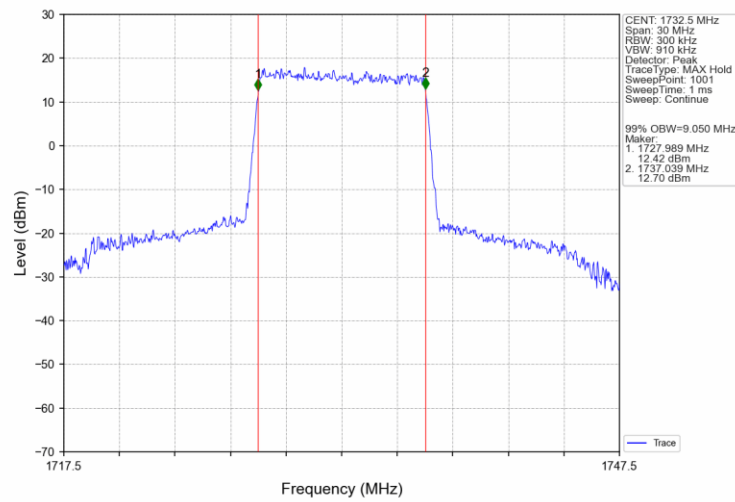
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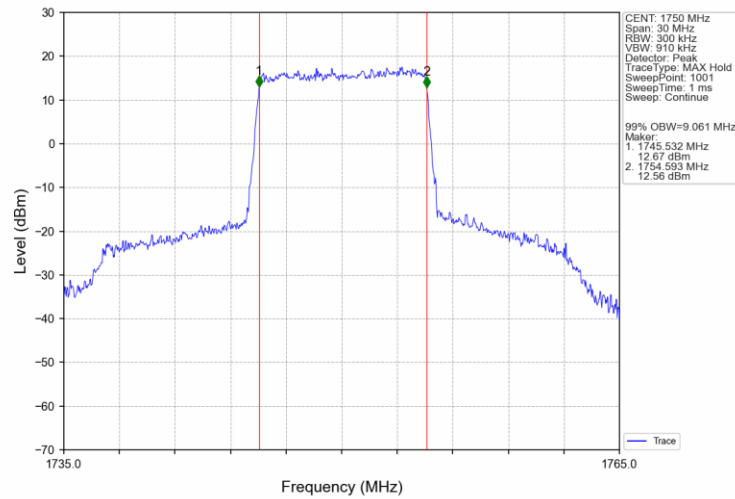
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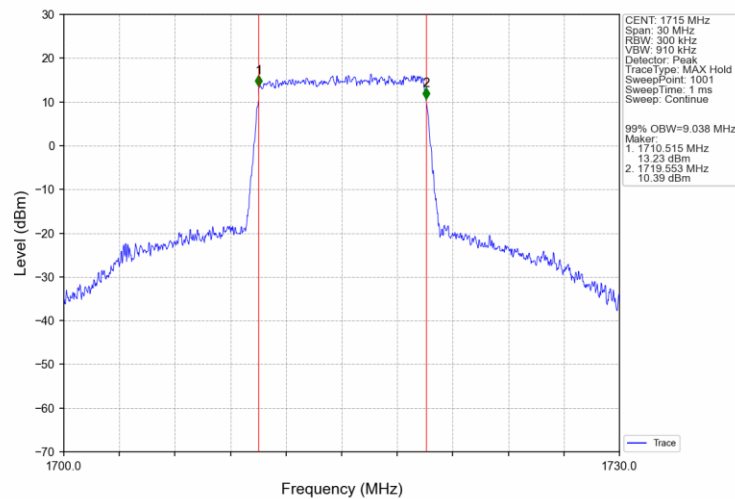
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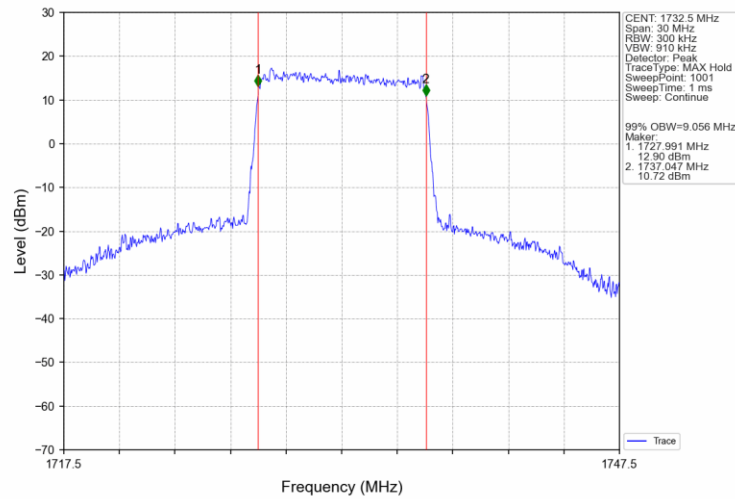
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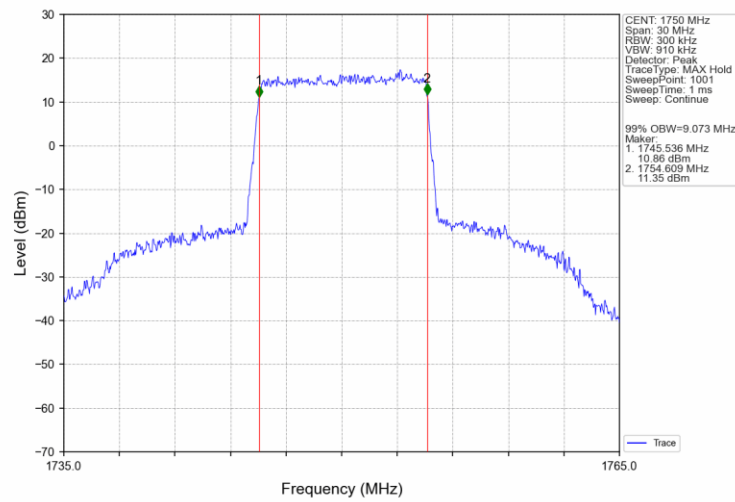
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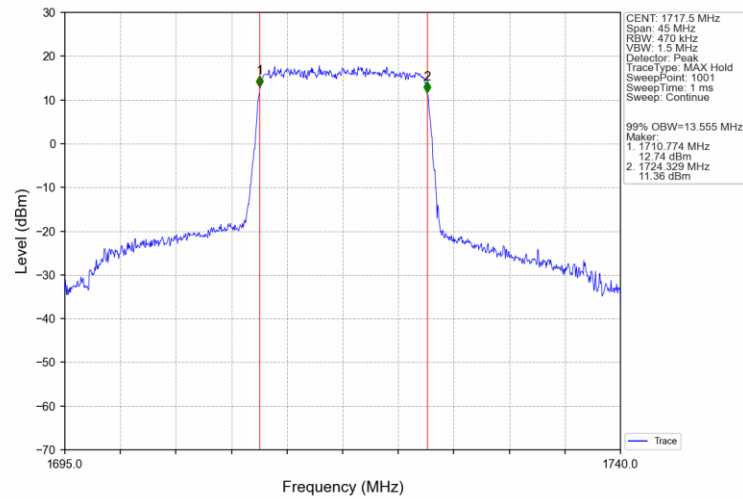
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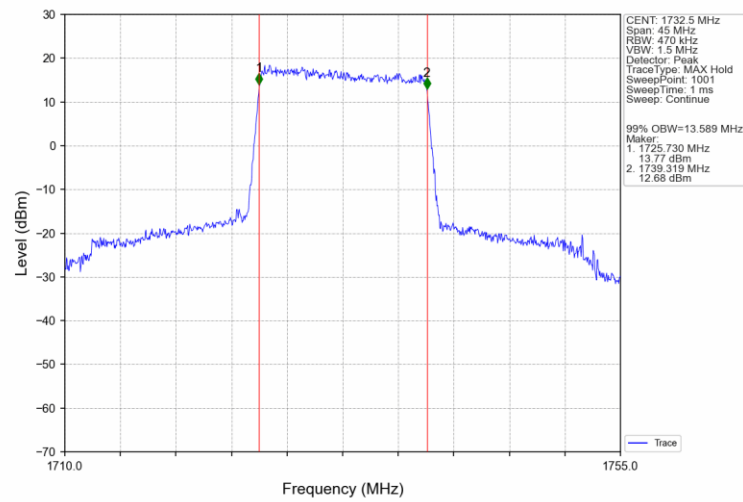
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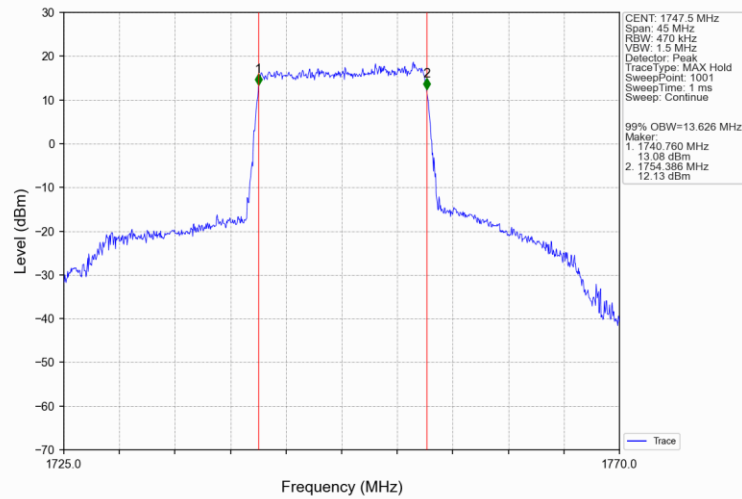
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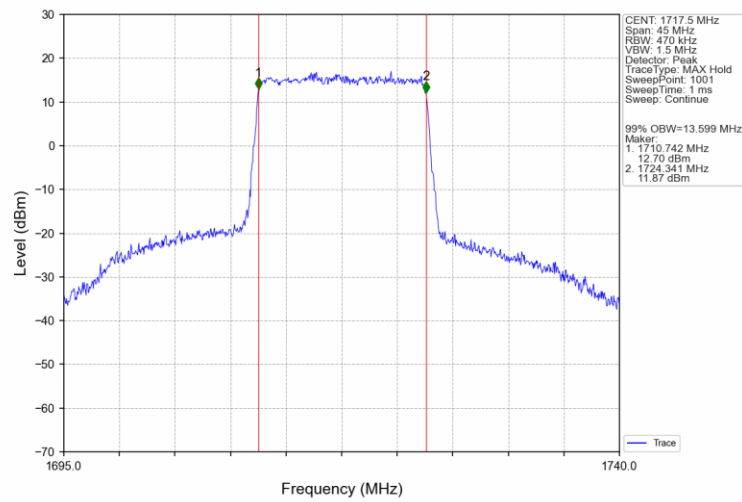
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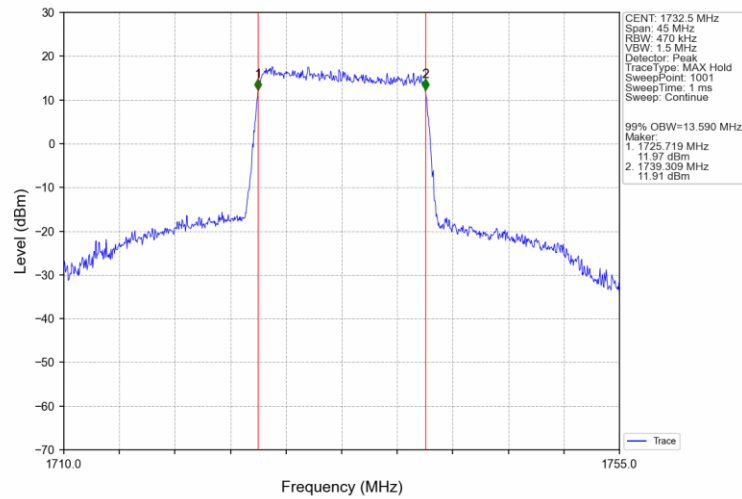
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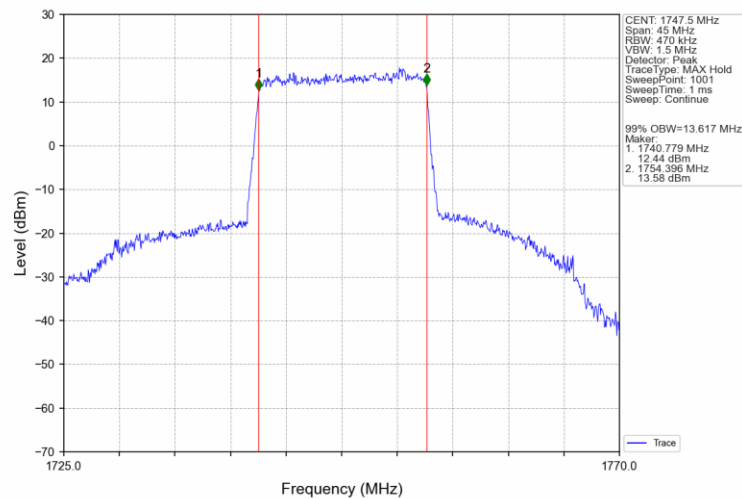
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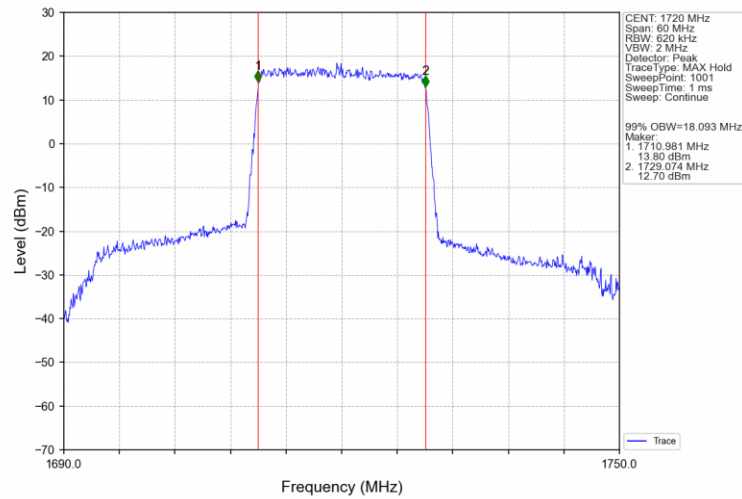
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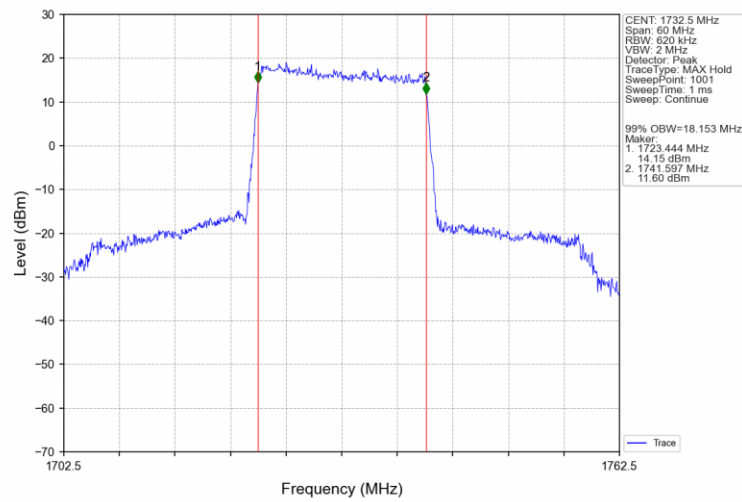
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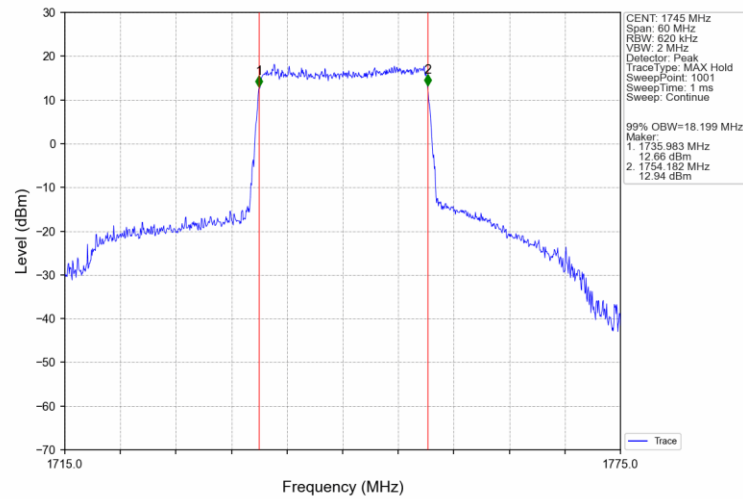
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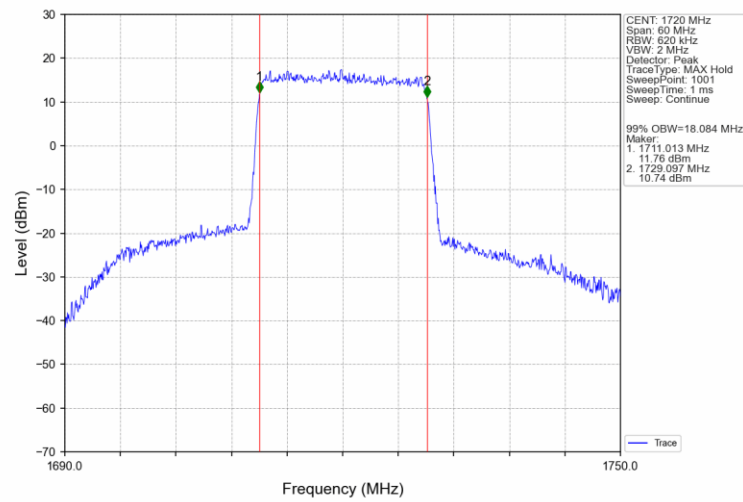
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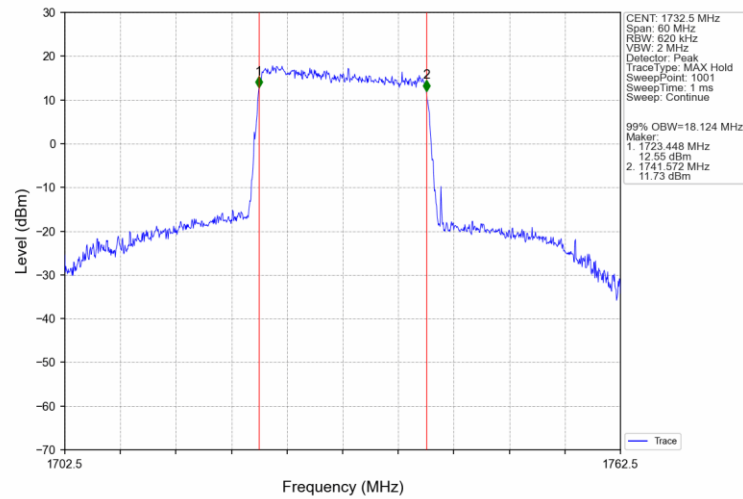
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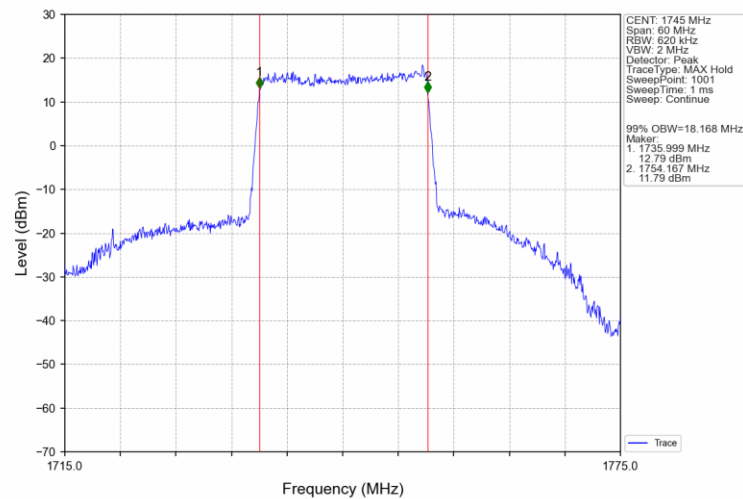
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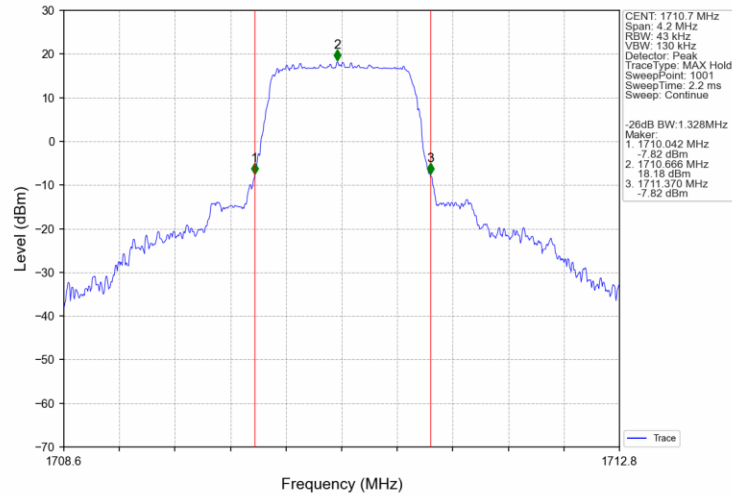


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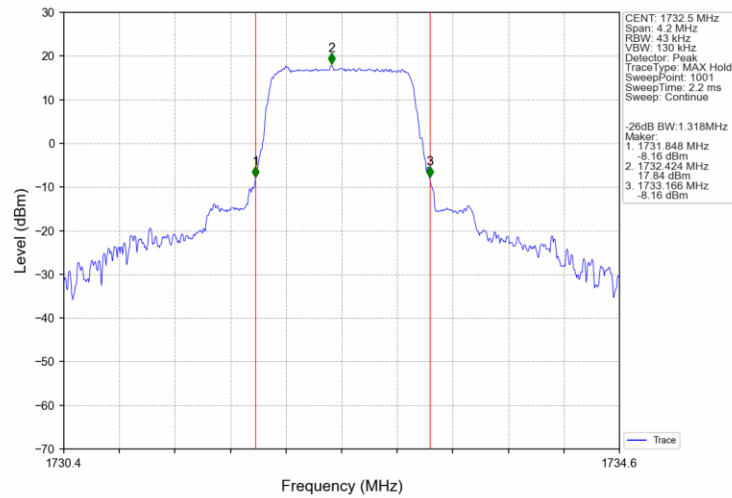


4.2.2 Band4_XDB

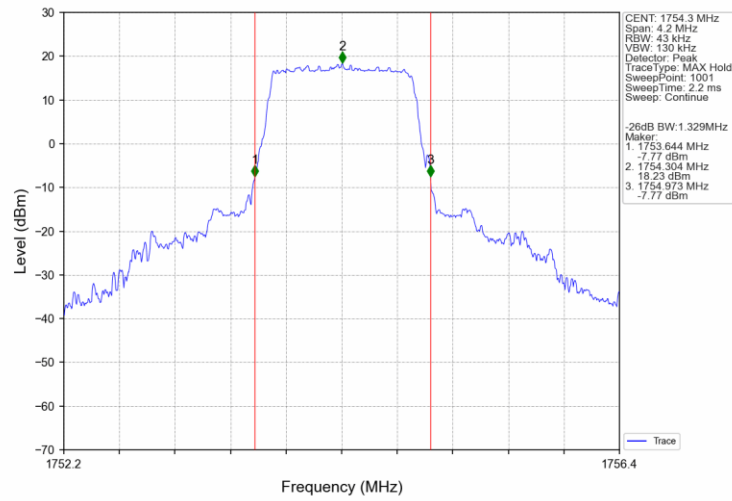
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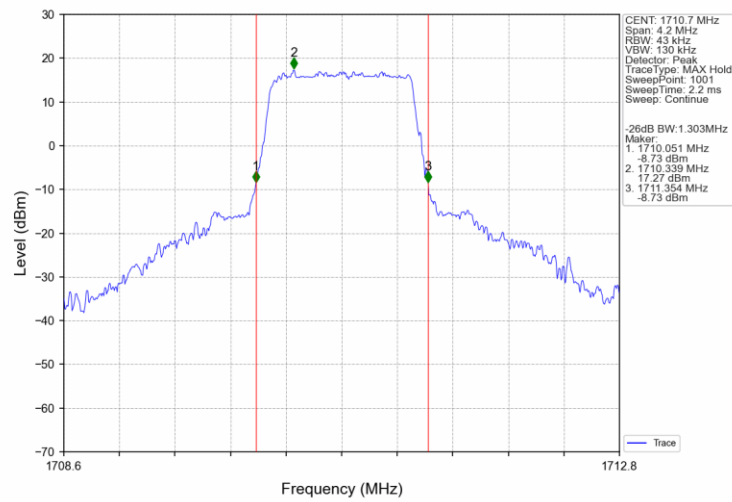
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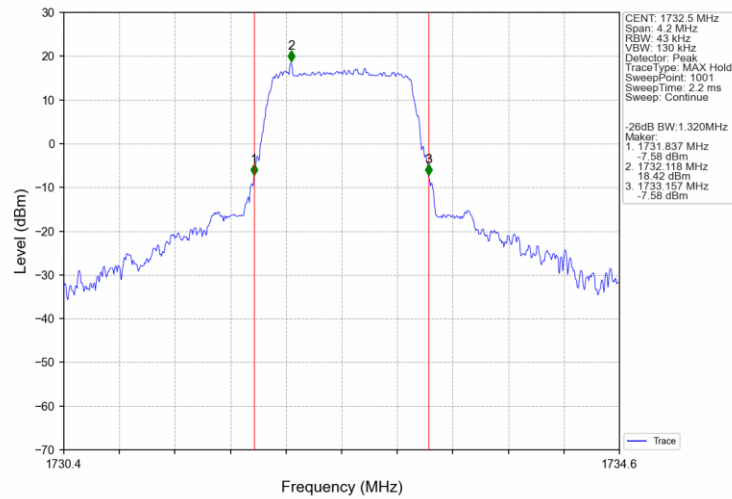
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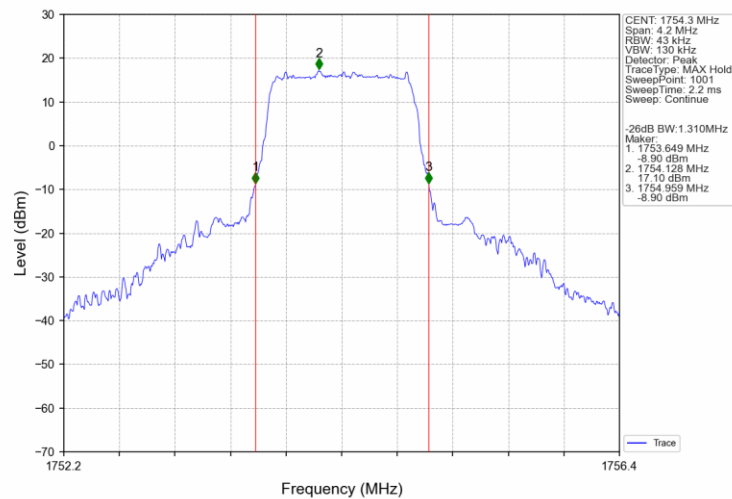
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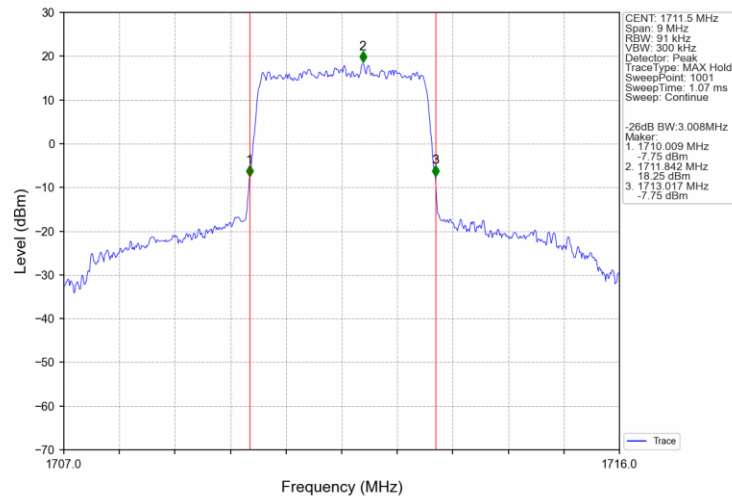
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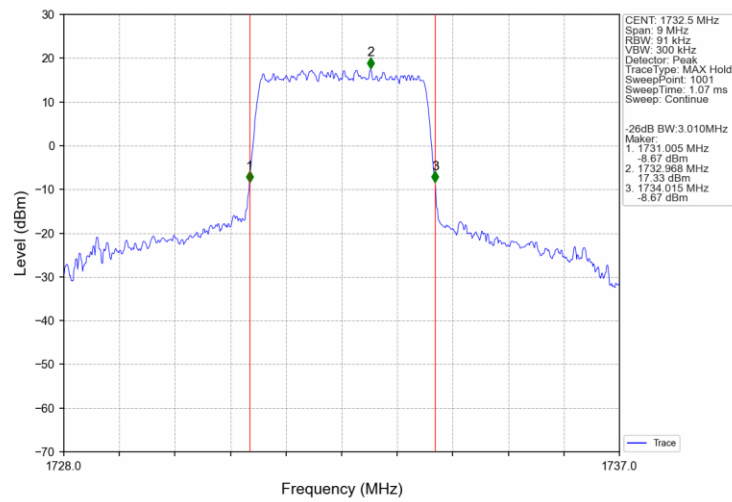
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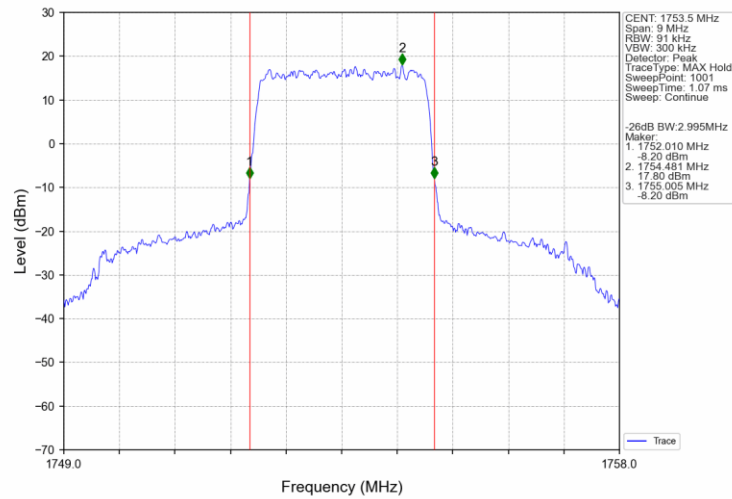
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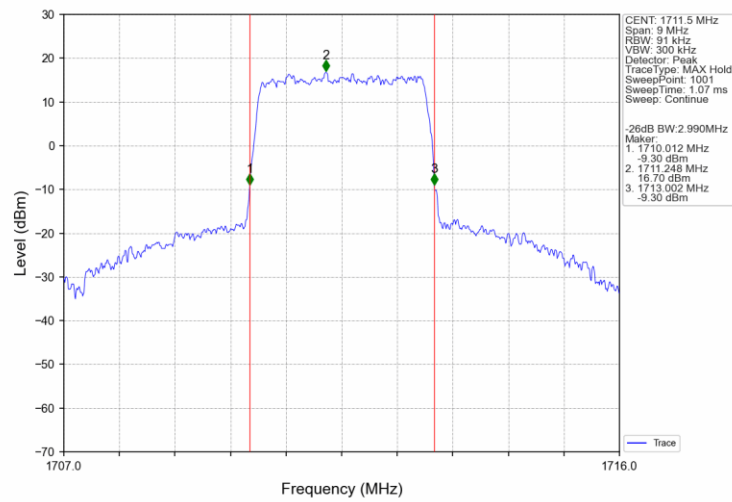
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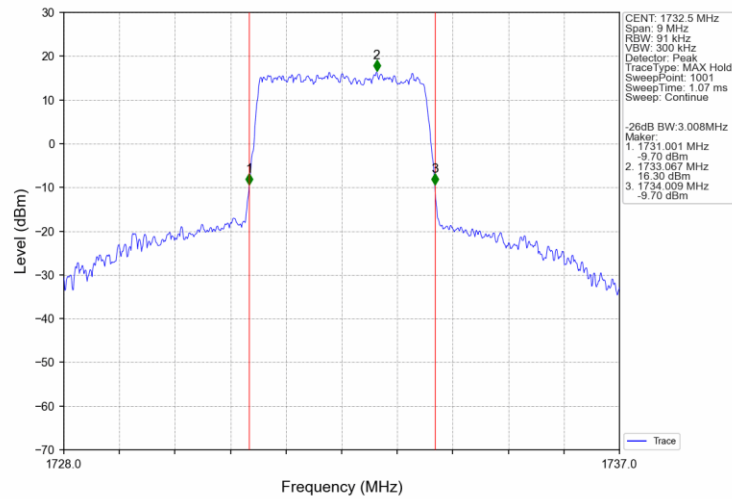
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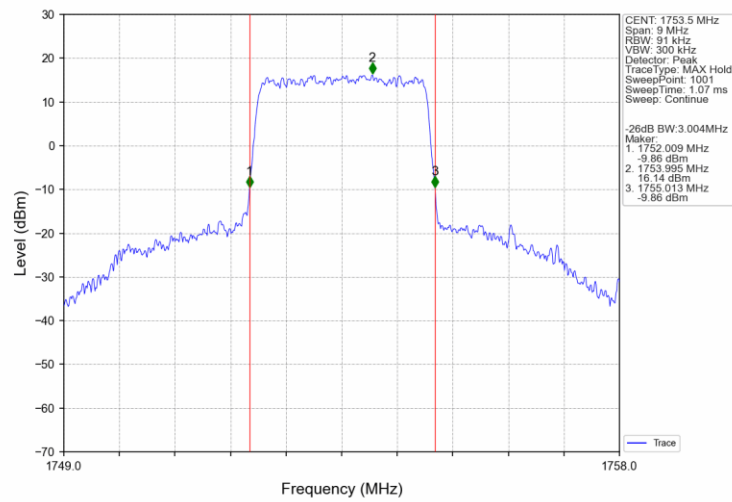
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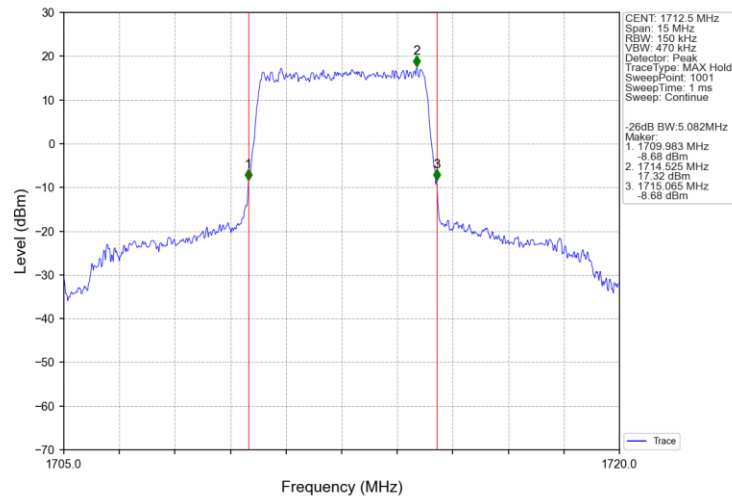
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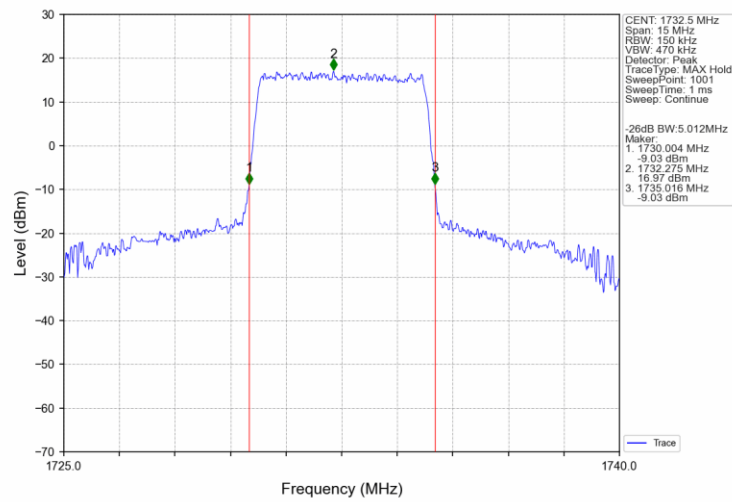
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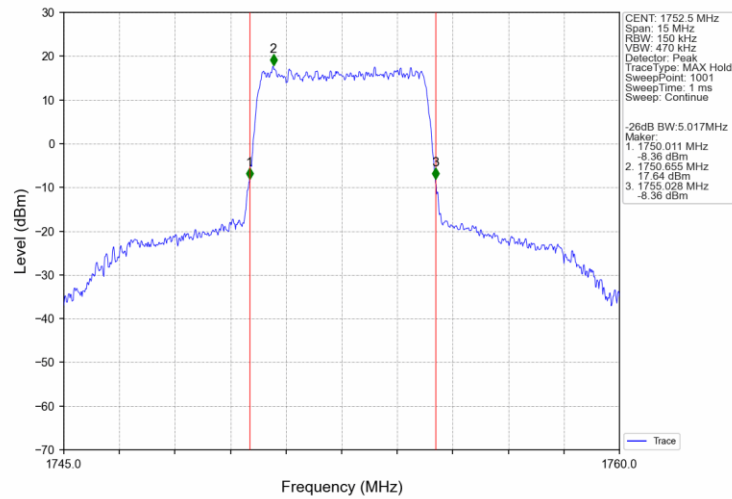
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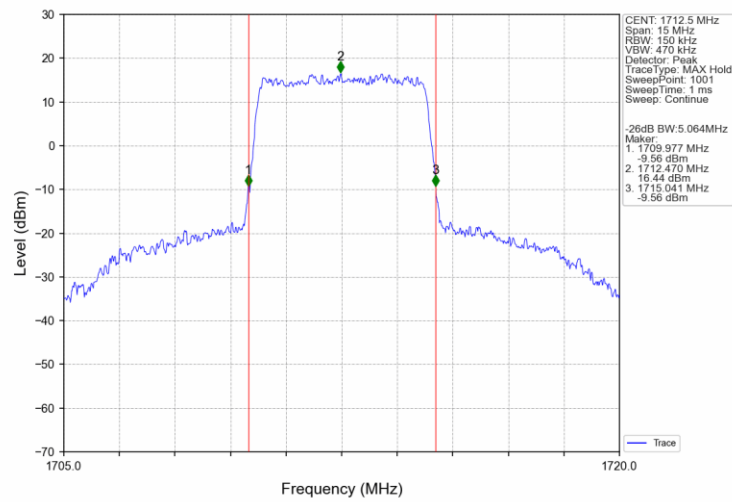
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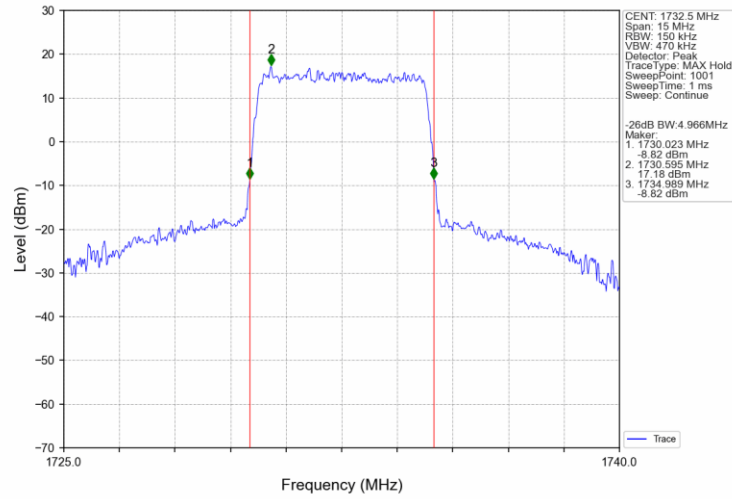
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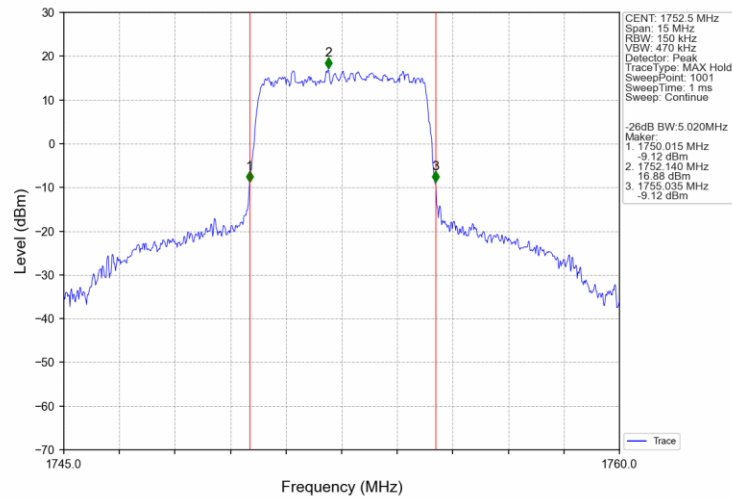
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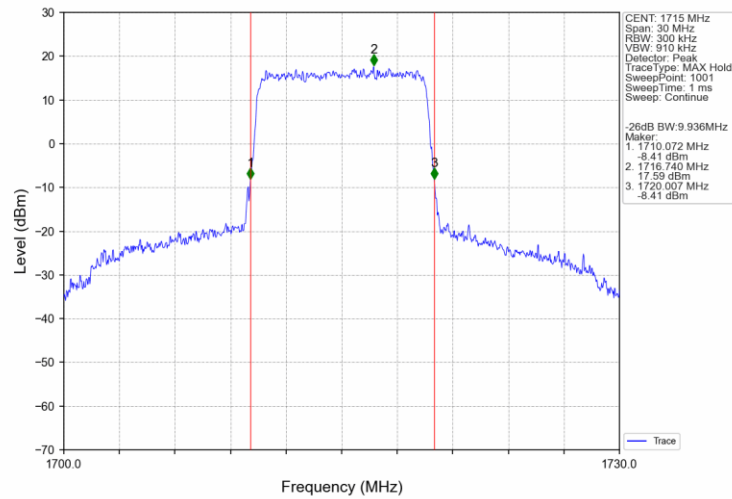
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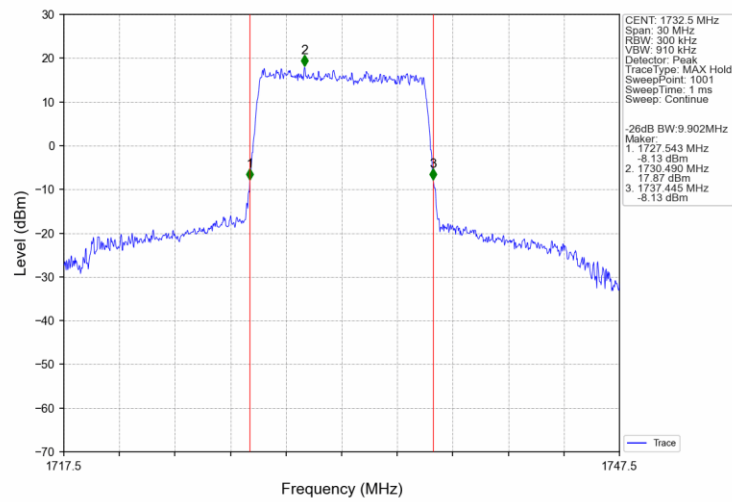
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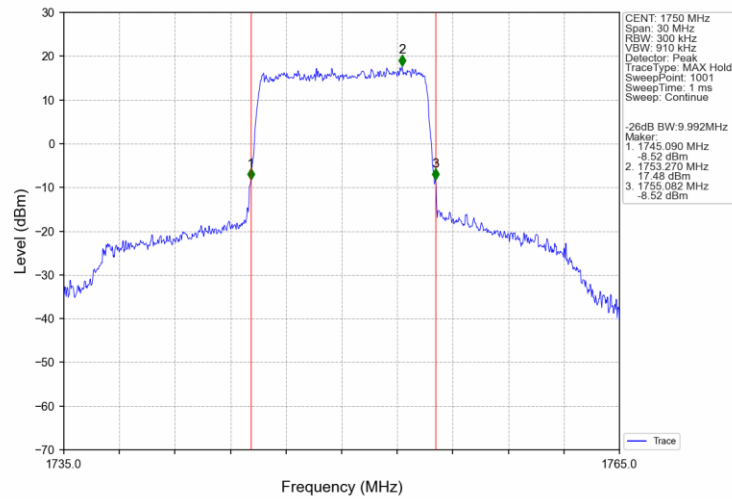
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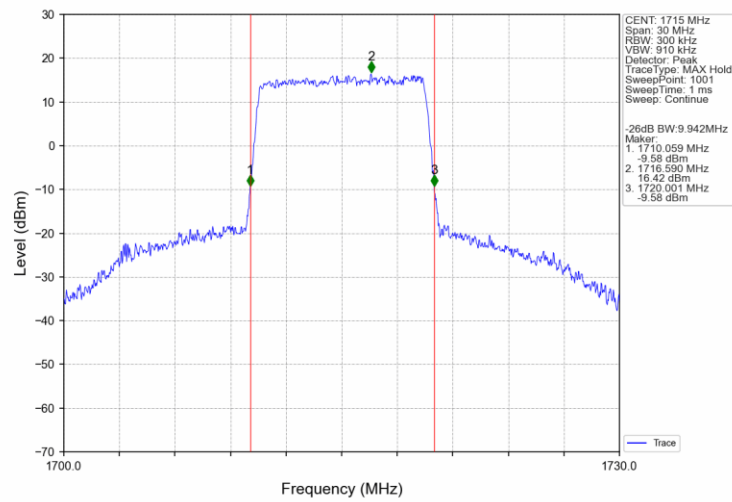
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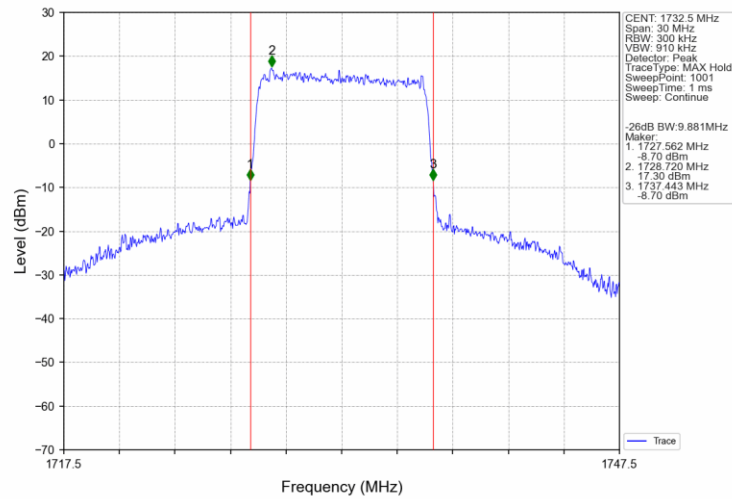
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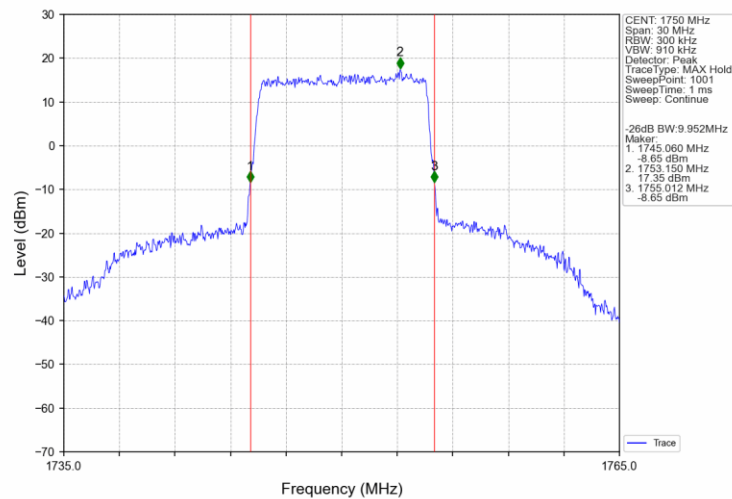
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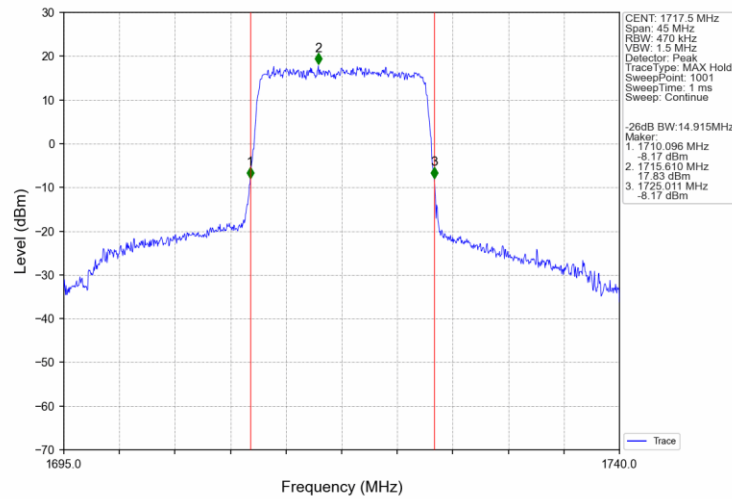
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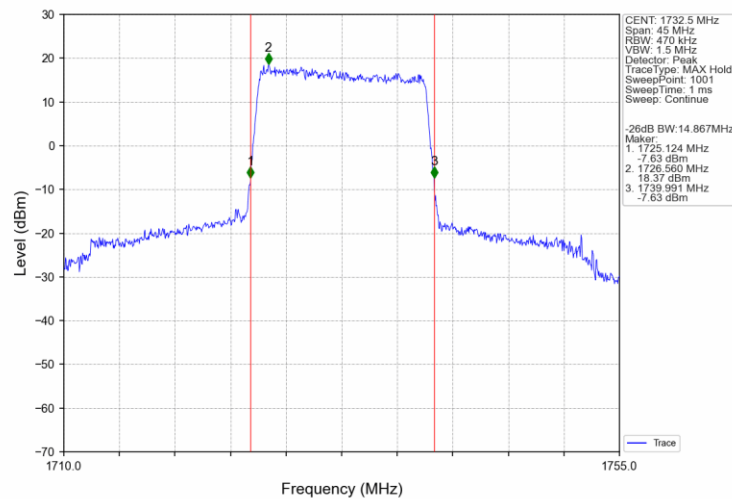
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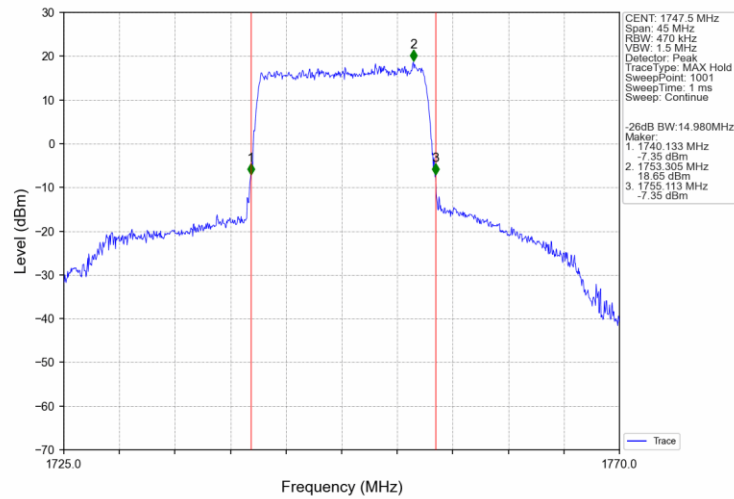
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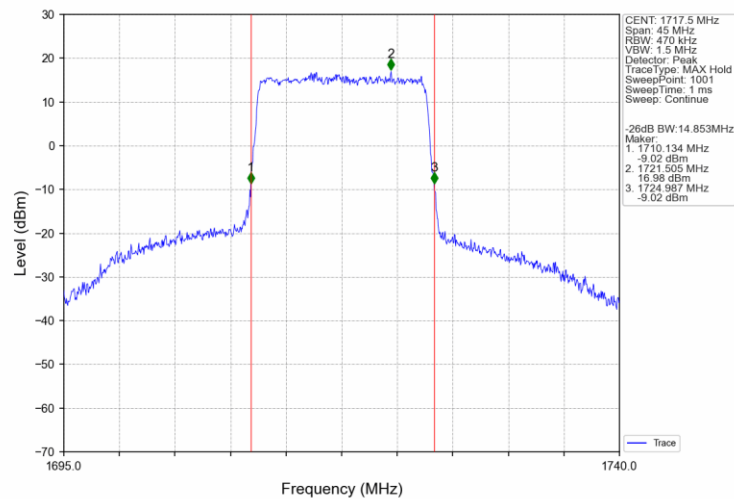
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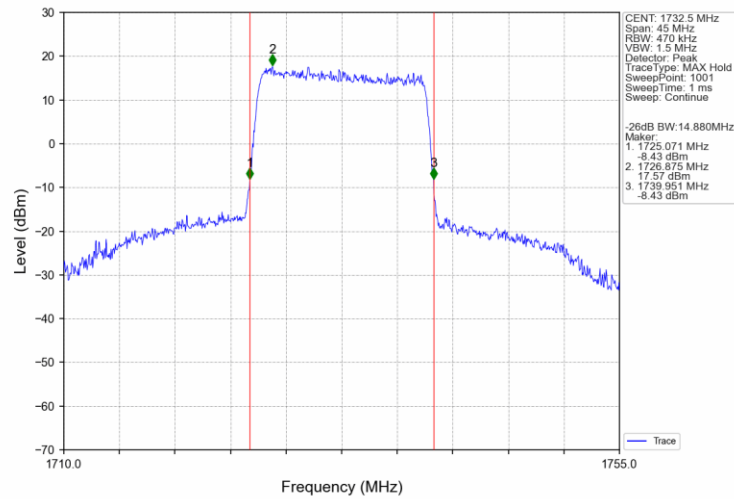
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

