

Appendix RF 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	23.47	-3.60	19.87	<=30	Pass
			2	23.62	-3.60	20.02	<=30	Pass
			5	23.49	-3.60	19.89	<=30	Pass
		3	0	23.60	-3.60	20.00	<=30	Pass
			2	23.61	-3.60	20.01	<=30	Pass
			3	23.62	-3.60	20.02	<=30	Pass
		6	0	22.58	-3.60	18.98	<=30	Pass
	1732.5	1	0	23.49	-3.60	19.89	<=30	Pass
			2	23.66	-3.60	20.06	<=30	Pass
			5	23.48	-3.60	19.88	<=30	Pass
		3	0	23.57	-3.60	19.97	<=30	Pass
			2	23.60	-3.60	20.00	<=30	Pass
			3	23.60	-3.60	20.00	<=30	Pass
		6	0	22.51	-3.60	18.91	<=30	Pass
	1754.3	1	0	23.03	-3.60	19.43	<=30	Pass
			2	23.57	-3.60	19.97	<=30	Pass
			5	23.35	-3.60	19.75	<=30	Pass
		3	0	23.35	-3.60	19.75	<=30	Pass
			2	23.32	-3.60	19.72	<=30	Pass
			3	23.28	-3.60	19.68	<=30	Pass
		6	0	22.22	-3.60	18.62	<=30	Pass
16QAM	1710.7	1	0	22.59	-3.60	18.99	<=30	Pass
			2	22.75	-3.60	19.15	<=30	Pass
			5	22.59	-3.60	18.99	<=30	Pass
		3	0	22.46	-3.60	18.86	<=30	Pass
			2	22.50	-3.60	18.90	<=30	Pass
			3	22.49	-3.60	18.89	<=30	Pass
		6	0	21.44	-3.60	17.84	<=30	Pass
	1732.5	1	0	22.30	-3.60	18.70	<=30	Pass
			2	22.29	-3.60	18.69	<=30	Pass
			5	21.97	-3.60	18.37	<=30	Pass
		3	0	22.00	-3.60	18.40	<=30	Pass
			2	21.91	-3.60	18.31	<=30	Pass
			3	21.87	-3.60	18.27	<=30	Pass
		6	0	21.47	-3.60	17.87	<=30	Pass
	1754.3	1	0	22.34	-3.60	18.74	<=30	Pass
			2	22.54	-3.60	18.94	<=30	Pass
			5	22.38	-3.60	18.78	<=30	Pass
		3	0	22.21	-3.60	18.61	<=30	Pass
			2	22.21	-3.60	18.61	<=30	Pass
			3	22.26	-3.60	18.66	<=30	Pass
		6	0	21.39	-3.60	17.79	<=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	23.55	-3.60	19.95	<=30	Pass
			7	23.74	-3.60	20.14	<=30	Pass
			14	23.50	-3.60	19.90	<=30	Pass
		8	0	22.55	-3.60	18.95	<=30	Pass
			4	22.57	-3.60	18.97	<=30	Pass
			7	22.55	-3.60	18.95	<=30	Pass
		15	0	22.51	-3.60	18.91	<=30	Pass
	1732.5	1	0	23.27	-3.60	19.67	<=30	Pass
			7	23.18	-3.60	19.58	<=30	Pass
			14	22.98	-3.60	19.38	<=30	Pass
		8	0	22.00	-3.60	18.40	<=30	Pass
			4	22.00	-3.60	18.40	<=30	Pass
			7	22.01	-3.60	18.41	<=30	Pass
		15	0	21.99	-3.60	18.39	<=30	Pass
	1753.5	1	0	22.92	-3.60	19.32	<=30	Pass
			7	23.14	-3.60	19.54	<=30	Pass
			14	22.92	-3.60	19.32	<=30	Pass
		8	0	21.96	-3.60	18.36	<=30	Pass
			4	22.01	-3.60	18.41	<=30	Pass
			7	21.95	-3.60	18.35	<=30	Pass
		15	0	21.95	-3.60	18.35	<=30	Pass
16QAM	1711.5	1	0	22.25	-3.60	18.65	<=30	Pass
			7	22.12	-3.60	18.52	<=30	Pass
			14	21.96	-3.60	18.36	<=30	Pass
		8	0	21.29	-3.60	17.69	<=30	Pass
			4	21.44	-3.60	17.84	<=30	Pass
			7	21.32	-3.60	17.72	<=30	Pass
		15	0	21.13	-3.60	17.53	<=30	Pass
	1732.5	1	0	22.18	-3.60	18.58	<=30	Pass
			7	22.44	-3.60	18.84	<=30	Pass
			14	22.17	-3.60	18.57	<=30	Pass
		8	0	21.13	-3.60	17.53	<=30	Pass
			4	21.15	-3.60	17.55	<=30	Pass
			7	21.12	-3.60	17.52	<=30	Pass
		15	0	21.06	-3.60	17.46	<=30	Pass
	1753.5	1	0	22.09	-3.60	18.49	<=30	Pass
			7	22.28	-3.60	18.68	<=30	Pass
			14	22.05	-3.60	18.45	<=30	Pass
		8	0	21.05	-3.60	17.45	<=30	Pass
			4	21.13	-3.60	17.53	<=30	Pass
			7	21.22	-3.60	17.62	<=30	Pass
		15	0	21.25	-3.60	17.65	<=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	23.14	-3.60	19.54	<=30	Pass
			13	23.05	-3.60	19.45	<=30	Pass
			24	22.91	-3.60	19.31	<=30	Pass
		12	0	21.99	-3.60	18.39	<=30	Pass
			6	22.03	-3.60	18.43	<=30	Pass
			13	22.01	-3.60	18.41	<=30	Pass
		25	0	22.09	-3.60	18.49	<=30	Pass
	1732.5	1	0	23.02	-3.60	19.42	<=30	Pass
			13	23.10	-3.60	19.50	<=30	Pass

16QAM		12	24	22.98	-3.60	19.38	<=30	Pass
			0	22.02	-3.60	18.42	<=30	Pass
			6	22.07	-3.60	18.47	<=30	Pass
			13	22.03	-3.60	18.43	<=30	Pass
		25	0	22.04	-3.60	18.44	<=30	Pass
	1752.5	1	0	22.87	-3.60	19.27	<=30	Pass
			13	23.01	-3.60	19.41	<=30	Pass
			24	22.93	-3.60	19.33	<=30	Pass
		12	0	21.94	-3.60	18.34	<=30	Pass
			6	22.01	-3.60	18.41	<=30	Pass
			13	21.96	-3.60	18.36	<=30	Pass
		25	0	21.98	-3.60	18.38	<=30	Pass
	1712.5	1	0	22.13	-3.60	18.53	<=30	Pass
			13	22.16	-3.60	18.56	<=30	Pass
			24	22.09	-3.60	18.49	<=30	Pass
		12	0	21.07	-3.60	17.47	<=30	Pass
			6	21.13	-3.60	17.53	<=30	Pass
			13	21.10	-3.60	17.50	<=30	Pass
		25	0	21.05	-3.60	17.45	<=30	Pass
	1732.5	1	0	22.13	-3.60	18.53	<=30	Pass
			13	22.24	-3.60	18.64	<=30	Pass
			24	22.09	-3.60	18.49	<=30	Pass
		12	0	21.13	-3.60	17.53	<=30	Pass
			6	21.15	-3.60	17.55	<=30	Pass
			13	21.08	-3.60	17.48	<=30	Pass
		25	0	21.15	-3.60	17.55	<=30	Pass
	1752.5	1	0	21.89	-3.60	18.29	<=30	Pass
			13	22.01	-3.60	18.41	<=30	Pass
			24	21.94	-3.60	18.34	<=30	Pass
		12	0	20.96	-3.60	17.36	<=30	Pass
			6	21.02	-3.60	17.42	<=30	Pass
			13	20.96	-3.60	17.36	<=30	Pass
		25	0	21.00	-3.60	17.40	<=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	23.48	-3.60	19.88	<=30	Pass
			25	23.10	-3.60	19.50	<=30	Pass
			49	23.03	-3.60	19.43	<=30	Pass
		25	0	22.08	-3.60	18.48	<=30	Pass
			13	22.05	-3.60	18.45	<=30	Pass
			25	22.13	-3.60	18.53	<=30	Pass
		50	0	22.05	-3.60	18.45	<=30	Pass
	1732.5	1	0	22.98	-3.60	19.38	<=30	Pass
			25	23.05	-3.60	19.45	<=30	Pass
			49	22.92	-3.60	19.32	<=30	Pass
		25	0	22.11	-3.60	18.51	<=30	Pass
			13	22.06	-3.60	18.46	<=30	Pass
			25	22.08	-3.60	18.48	<=30	Pass
		50	0	22.10	-3.60	18.50	<=30	Pass
	1750	1	0	22.89	-3.60	19.29	<=30	Pass
			25	23.02	-3.60	19.42	<=30	Pass
			49	22.91	-3.60	19.31	<=30	Pass
		25	0	21.97	-3.60	18.37	<=30	Pass

16QAM	1715	50	13	21.96	-3.60	18.36	<=30	Pass
			25	22.01	-3.60	18.41	<=30	Pass
			0	21.96	-3.60	18.36	<=30	Pass
		1	0	21.93	-3.60	18.33	<=30	Pass
			25	22.02	-3.60	18.42	<=30	Pass
			49	21.93	-3.60	18.33	<=30	Pass
		25	0	21.12	-3.60	17.52	<=30	Pass
			13	21.14	-3.60	17.54	<=30	Pass
			25	21.20	-3.60	17.60	<=30	Pass
		50	0	21.11	-3.60	17.51	<=30	Pass
	1732.5	1	0	22.20	-3.60	18.60	<=30	Pass
			25	22.29	-3.60	18.69	<=30	Pass
			49	22.15	-3.60	18.55	<=30	Pass
		25	0	21.18	-3.60	17.58	<=30	Pass
			13	21.12	-3.60	17.52	<=30	Pass
			25	21.17	-3.60	17.57	<=30	Pass
		50	0	21.13	-3.60	17.53	<=30	Pass
	1750	1	0	22.04	-3.60	18.44	<=30	Pass
			25	22.12	-3.60	18.52	<=30	Pass
			49	22.05	-3.60	18.45	<=30	Pass
		25	0	21.02	-3.60	17.42	<=30	Pass
			13	21.04	-3.60	17.44	<=30	Pass
			25	21.05	-3.60	17.45	<=30	Pass
		50	0	21.02	-3.60	17.42	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	22.86	-3.60	19.26	<=30	Pass
			38	22.99	-3.60	19.39	<=30	Pass
			74	22.88	-3.60	19.28	<=30	Pass
		36	0	22.07	-3.60	18.47	<=30	Pass
			18	22.17	-3.60	18.57	<=30	Pass
			39	22.17	-3.60	18.57	<=30	Pass
		75	0	22.15	-3.60	18.55	<=30	Pass
	1732.5	1	0	22.93	-3.60	19.33	<=30	Pass
			38	22.98	-3.60	19.38	<=30	Pass
			74	22.84	-3.60	19.24	<=30	Pass
		36	0	22.10	-3.60	18.50	<=30	Pass
			18	22.09	-3.60	18.49	<=30	Pass
			39	22.05	-3.60	18.45	<=30	Pass
		75	0	22.11	-3.60	18.51	<=30	Pass
	1747.5	1	0	22.89	-3.60	19.29	<=30	Pass
			38	22.98	-3.60	19.38	<=30	Pass
			74	22.88	-3.60	19.28	<=30	Pass
		36	0	22.03	-3.60	18.43	<=30	Pass
			18	22.07	-3.60	18.47	<=30	Pass
			39	22.13	-3.60	18.53	<=30	Pass
		75	0	22.05	-3.60	18.45	<=30	Pass
16QAM	1717.5	1	0	22.05	-3.60	18.45	<=30	Pass
			38	22.16	-3.60	18.56	<=30	Pass
			74	22.11	-3.60	18.51	<=30	Pass
		36	0	21.03	-3.60	17.43	<=30	Pass
			18	21.11	-3.60	17.51	<=30	Pass
			39	21.13	-3.60	17.53	<=30	Pass

	1732.5	75	0	21.09	-3.60	17.49	<=30	Pass
		1	0	22.20	-3.60	18.60	<=30	Pass
			38	22.28	-3.60	18.68	<=30	Pass
			74	22.08	-3.60	18.48	<=30	Pass
		36	0	21.13	-3.60	17.53	<=30	Pass
			18	21.13	-3.60	17.53	<=30	Pass
			39	21.11	-3.60	17.51	<=30	Pass
			75	21.16	-3.60	17.56	<=30	Pass
	1747.5	1	0	21.79	-3.60	18.19	<=30	Pass
			38	21.81	-3.60	18.21	<=30	Pass
			74	21.75	-3.60	18.15	<=30	Pass
		36	0	20.95	-3.60	17.35	<=30	Pass
			18	20.99	-3.60	17.39	<=30	Pass
			39	20.99	-3.60	17.39	<=30	Pass
			75	21.04	-3.60	17.44	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.85	-3.60	19.25	<=30	Pass
			50	23.18	-3.60	19.58	<=30	Pass
			99	22.84	-3.60	19.24	<=30	Pass
		50	0	21.96	-3.60	18.36	<=30	Pass
			25	22.04	-3.60	18.44	<=30	Pass
			50	22.05	-3.60	18.45	<=30	Pass
		100	0	22.02	-3.60	18.42	<=30	Pass
	1732.5	1	0	22.68	-3.60	19.08	<=30	Pass
			50	22.99	-3.60	19.39	<=30	Pass
			99	22.60	-3.60	19.00	<=30	Pass
		50	0	22.10	-3.60	18.50	<=30	Pass
			25	22.03	-3.60	18.43	<=30	Pass
			50	21.99	-3.60	18.39	<=30	Pass
		100	0	22.05	-3.60	18.45	<=30	Pass
	1745	1	0	22.80	-3.60	19.20	<=30	Pass
			50	23.03	-3.60	19.43	<=30	Pass
			99	22.79	-3.60	19.19	<=30	Pass
		50	0	21.91	-3.60	18.31	<=30	Pass
			25	21.95	-3.60	18.35	<=30	Pass
			50	21.99	-3.60	18.39	<=30	Pass
		100	0	21.98	-3.60	18.38	<=30	Pass
16QAM	1720	1	0	21.86	-3.60	18.26	<=30	Pass
			50	22.18	-3.60	18.58	<=30	Pass
			99	21.94	-3.60	18.34	<=30	Pass
		50	0	21.02	-3.60	17.42	<=30	Pass
			25	21.14	-3.60	17.54	<=30	Pass
			50	21.09	-3.60	17.49	<=30	Pass
		100	0	21.07	-3.60	17.47	<=30	Pass
	1732.5	1	0	21.85	-3.60	18.25	<=30	Pass
			50	22.18	-3.60	18.58	<=30	Pass
			99	21.78	-3.60	18.18	<=30	Pass
		50	0	21.17	-3.60	17.57	<=30	Pass
			25	21.19	-3.60	17.59	<=30	Pass
			50	21.14	-3.60	17.54	<=30	Pass
	1745	1	0	21.15	-3.60	17.55	<=30	Pass

		50	50	22.15	-3.60	18.55	<=30	Pass
			99	21.88	-3.60	18.28	<=30	Pass
			0	20.99	-3.60	17.39	<=30	Pass
		50	25	21.01	-3.60	17.41	<=30	Pass
			50	21.01	-3.60	17.41	<=30	Pass
		100	0	21.02	-3.60	17.42	<=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	3.27	-15.707	-0.0092	-2.5 to 2.5	Pass
					3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
					4.43	0.672	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-13.976	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-4.463	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-5.651	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-8.798	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-11.687	-0.0068	-2.5 to 2.5	Pass
				30	3.85	-3.204	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-8.683	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-7.095	-0.0041	-2.5 to 2.5	Pass
					3.85	-7.010	-0.0040	-2.5 to 2.5	Pass
					4.43	-6.537	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-8.698	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	-5.336	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-6.437	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-4.234	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-4.234	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-3.376	-0.0019	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-3.734	-0.0021	-2.5 to 2.5	Pass
					3.85	-8.640	-0.0049	-2.5 to 2.5	Pass
					4.43	-1.502	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-5.350	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-2.217	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-4.592	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-5.450	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-13.804	-0.0079	-2.5 to 2.5	Pass
				40	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-5.207	-0.0030	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-1.659	-0.0010	-2.5 to 2.5	Pass
					3.85	-0.072	0.0000	-2.5 to 2.5	Pass
					4.43	1.388	0.0008	-2.5 to 2.5	Pass
				-30	3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-11.902	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	-1.574	-0.0009	-2.5 to 2.5	Pass

				0	3.85	-4.935	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-1.273	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-5.679	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-7.553	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-5.679	-0.0033	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-10.929	-0.0063	-2.5 to 2.5	Pass
					3.85	-5.164	-0.0030	-2.5 to 2.5	Pass
					4.43	-5.550	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	2.031	0.0012	-2.5 to 2.5	Pass
				-20	3.85	-9.270	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-8.168	-0.0047	-2.5 to 2.5	Pass
				0	3.85	-7.067	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-7.038	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-5.722	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-5.422	-0.0031	-2.5 to 2.5	Pass
					3.85	-4.907	-0.0028	-2.5 to 2.5	Pass
					4.43	-4.177	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	0.458	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-9.513	-0.0054	-2.5 to 2.5	Pass
				0	3.85	-5.622	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-6.394	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-0.730	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-6.537	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-10.886	-0.0062	-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	3.27	-15.807	-0.0092	-2.5 to 2.5	Pass
					3.85	-12.932	-0.0076	-2.5 to 2.5	Pass
					4.43	-8.354	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-7.639	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-2.904	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-8.340	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-7.482	-0.0044	-2.5 to 2.5	Pass
				10	3.85	-12.417	-0.0073	-2.5 to 2.5	Pass
				30	3.85	0.257	0.0002	-2.5 to 2.5	Pass
				40	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				50	3.85	-7.167	-0.0042	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-6.952	-0.0040	-2.5 to 2.5	Pass
					3.85	-13.719	-0.0079	-2.5 to 2.5	Pass
					4.43	-4.392	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-3.347	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-7.181	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-3.748	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-1.516	-0.0009	-2.5 to 2.5	Pass
				30	3.85	1.001	0.0006	-2.5 to 2.5	Pass
				40	3.85	-1.473	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-9.298	-0.0054	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-5.450	-0.0031	-2.5 to 2.5	Pass
					3.85	-7.768	-0.0044	-2.5 to 2.5	Pass
					4.43	-3.104	-0.0018	-2.5 to 2.5	Pass

				-30	3.85	-8.469	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-5.879	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-7.310	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-13.790	-0.0079	-2.5 to 2.5	Pass
				10	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				30	3.85	-8.812	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-10.829	-0.0062	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	50	3.85	-12.059	-0.0069	-2.5 to 2.5	Pass
				20	3.27	-0.315	-0.0002	-2.5 to 2.5	Pass
					3.85	-3.676	-0.0021	-2.5 to 2.5	Pass
					4.43	-3.762	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-3.862	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-6.924	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-5.136	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-4.106	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-4.020	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
	1732.5	15	0	40	3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-3.347	-0.0020	-2.5 to 2.5	Pass
				20	3.27	-4.406	-0.0025	-2.5 to 2.5	Pass
					3.85	-6.881	-0.0040	-2.5 to 2.5	Pass
					4.43	-7.882	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-3.719	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-8.411	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-3.691	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-6.223	-0.0036	-2.5 to 2.5	Pass
	1753.5	15	0	30	3.85	-9.370	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-3.676	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-3.061	-0.0018	-2.5 to 2.5	Pass
				20	3.27	-6.895	-0.0039	-2.5 to 2.5	Pass
					3.85	-5.994	-0.0034	-2.5 to 2.5	Pass
					4.43	-4.578	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-2.990	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-5.922	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-7.582	-0.0043	-2.5 to 2.5	Pass
				10	3.85	2.203	0.0013	-2.5 to 2.5	Pass
				30	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-4.249	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-3.762	-0.0021	-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	3.27	-5.808	-0.0034	-2.5 to 2.5	Pass
					3.85	-6.351	-0.0037	-2.5 to 2.5	Pass
					4.43	-1.202	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-8.526	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	-5.879	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	0.558	0.0003	-2.5 to 2.5	Pass
				0	3.85	-3.519	-0.0021	-2.5 to 2.5	Pass
				10	3.85	1.059	0.0006	-2.5 to 2.5	Pass
				30	3.85	-2.904	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-4.163	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-4.621	-0.0027	-2.5 to 2.5	Pass

	1732.5	25	0	20	3.27	-4.921	-0.0028	-2.5 to 2.5	Pass
					3.85	-4.492	-0.0026	-2.5 to 2.5	Pass
					4.43	-2.847	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-7.825	-0.0045	-2.5 to 2.5	Pass
				-10	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-3.920	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-3.519	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-5.350	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-3.190	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-7.653	-0.0044	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-7.510	-0.0043	-2.5 to 2.5	Pass
					3.85	-10.915	-0.0062	-2.5 to 2.5	Pass
					4.43	-7.653	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-9.198	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-5.436	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-8.755	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-6.123	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-2.332	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-3.133	-0.0018	-2.5 to 2.5	Pass
				40	3.85	0.744	0.0004	-2.5 to 2.5	Pass
				50	3.85	-9.913	-0.0057	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-7.110	-0.0042	-2.5 to 2.5	Pass
					3.85	-3.777	-0.0022	-2.5 to 2.5	Pass
					4.43	-9.727	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-3.777	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-6.738	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-6.051	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-10.228	-0.0060	-2.5 to 2.5	Pass
				30	3.85	1.130	0.0007	-2.5 to 2.5	Pass
				40	3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-4.220	-0.0025	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-4.320	-0.0025	-2.5 to 2.5	Pass
					3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
					4.43	-3.161	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-8.411	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-6.351	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-4.220	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-7.339	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-14.105	-0.0081	-2.5 to 2.5	Pass
				40	3.85	-7.639	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-4.206	-0.0024	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-5.078	-0.0029	-2.5 to 2.5	Pass
					3.85	-5.722	-0.0033	-2.5 to 2.5	Pass
					4.43	-5.636	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-7.410	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-8.225	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-6.795	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-4.606	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-11.759	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-5.107	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-5.150	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-2.689	-0.0015	-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	3.27	-7.682	-0.0045	-2.5 to 2.5	Pass
					3.85	-7.610	-0.0044	-2.5 to 2.5	Pass
					4.43	-5.879	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-7.381	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-3.591	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-5.293	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-5.078	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-8.640	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-9.327	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-6.394	-0.0037	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-3.834	-0.0022	-2.5 to 2.5	Pass
					3.85	-5.565	-0.0032	-2.5 to 2.5	Pass
					4.43	-2.861	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-9.198	-0.0053	-2.5 to 2.5	Pass
				0	3.85	-5.808	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-11.101	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-7.782	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-4.563	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-6.194	-0.0036	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-6.237	-0.0036	-2.5 to 2.5	Pass
					3.85	1.287	0.0007	-2.5 to 2.5	Pass
					4.43	-6.680	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-6.723	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-4.578	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-7.796	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-7.839	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-2.918	-0.0017	-2.5 to 2.5	Pass
				40	3.85	1.974	0.0011	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-7.911	-0.0046	-2.5 to 2.5	Pass
					3.85	-6.881	-0.0040	-2.5 to 2.5	Pass
					4.43	-5.136	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-1.831	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-8.683	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-4.277	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-5.836	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-6.738	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-6.537	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-7.367	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-7.839	-0.0046	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-2.561	-0.0015	-2.5 to 2.5	Pass
					3.85	-5.651	-0.0033	-2.5 to 2.5	Pass
					4.43	-1.631	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-5.693	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-7.510	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-2.332	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-4.163	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-8.426	-0.0049	-2.5 to 2.5	Pass
				40	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
				50	3.85	2.890	0.0017	-2.5 to 2.5	Pass

	1750	50	0	20	3.27	-1.888	-0.0011	-2.5 to 2.5	Pass
					3.85	-7.968	-0.0046	-2.5 to 2.5	Pass
					4.43	-6.795	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-2.704	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.101	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-5.636	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-5.279	-0.0030	-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	3.27	-5.422	-0.0032	-2.5 to 2.5	Pass
					3.85	-7.653	-0.0045	-2.5 to 2.5	Pass
					4.43	-1.388	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-8.698	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-4.578	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-6.394	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-5.436	-0.0032	-2.5 to 2.5	Pass
				40	3.85	-8.712	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-7.839	-0.0046	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-0.443	-0.0003	-2.5 to 2.5	Pass
					3.85	-3.777	-0.0022	-2.5 to 2.5	Pass
					4.43	-1.988	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-4.506	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-1.717	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-4.148	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-4.578	-0.0026	-2.5 to 2.5	Pass
				30	3.85	0.286	0.0002	-2.5 to 2.5	Pass
				40	3.85	-4.635	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-6.723	-0.0038	-2.5 to 2.5	Pass
					3.85	-6.509	-0.0037	-2.5 to 2.5	Pass
					4.43	-5.379	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-3.934	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-5.307	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-2.260	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-2.146	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-8.512	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-6.866	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-7.081	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-9.499	-0.0054	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-5.221	-0.0030	-2.5 to 2.5	Pass
					3.85	-7.024	-0.0041	-2.5 to 2.5	Pass
					4.43	-3.734	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-3.018	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-3.133	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-4.892	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-5.593	-0.0033	-2.5 to 2.5	Pass

				30	3.85	-6.666	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-3.548	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-12.116	-0.0071	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	3.819	0.0022	-2.5 to 2.5	Pass
					3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
					4.43	-4.048	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	2.332	0.0013	-2.5 to 2.5	Pass
				-20	3.85	-6.251	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-4.735	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-7.796	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-7.567	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-5.264	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-2.618	-0.0015	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-3.934	-0.0023	-2.5 to 2.5	Pass
					3.85	-8.769	-0.0050	-2.5 to 2.5	Pass
					4.43	-7.353	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-6.409	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-7.367	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-5.980	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-2.346	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-3.734	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-6.108	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-6.180	-0.0035	-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	3.27	-9.685	-0.0056	-2.5 to 2.5	Pass
					3.85	-4.334	-0.0025	-2.5 to 2.5	Pass
					4.43	-6.423	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-7.539	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-4.163	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-4.878	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-6.294	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-4.678	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-1.316	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-7.825	-0.0045	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-2.260	-0.0013	-2.5 to 2.5	Pass
					3.85	0.272	0.0002	-2.5 to 2.5	Pass
					4.43	-1.101	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	1.616	0.0009	-2.5 to 2.5	Pass
				-20	3.85	-6.509	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-1.888	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-2.160	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-4.520	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-6.280	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-4.277	-0.0025	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-4.177	-0.0024	-2.5 to 2.5	Pass
					3.85	-2.174	-0.0012	-2.5 to 2.5	Pass
					4.43	-4.663	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-2.689	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-6.552	-0.0038	-2.5 to 2.5	Pass

16QAM				-10	3.85	-3.762	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-10.014	-0.0057	-2.5 to 2.5	Pass
				10	3.85	-10.171	-0.0058	-2.5 to 2.5	Pass
				30	3.85	-6.266	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
	1720	100	0	50	3.85	-5.436	-0.0031	-2.5 to 2.5	Pass
				20	3.27	-8.869	-0.0052	-2.5 to 2.5	Pass
					3.85	-7.610	-0.0044	-2.5 to 2.5	Pass
					4.43	-10.257	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-5.994	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-7.453	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-8.726	-0.0051	-2.5 to 2.5	Pass
				0	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-5.908	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-8.454	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-11.415	-0.0066	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-7.582	-0.0044	-2.5 to 2.5	Pass
					3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
					4.43	1.545	0.0009	-2.5 to 2.5	Pass
				-30	3.85	1.574	0.0009	-2.5 to 2.5	Pass
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-5.207	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-3.734	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-7.768	-0.0045	-2.5 to 2.5	Pass
	1745	100	0	50	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				20	3.27	-3.276	-0.0019	-2.5 to 2.5	Pass
					3.85	-5.250	-0.0030	-2.5 to 2.5	Pass
					4.43	-6.509	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-8.440	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-2.904	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-8.211	-0.0047	-2.5 to 2.5	Pass
				0	3.85	-7.238	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-5.565	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-11.058	-0.0063	-2.5 to 2.5	Pass
				40	3.85	-4.663	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-8.225	-0.0047	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTVN						
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					
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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

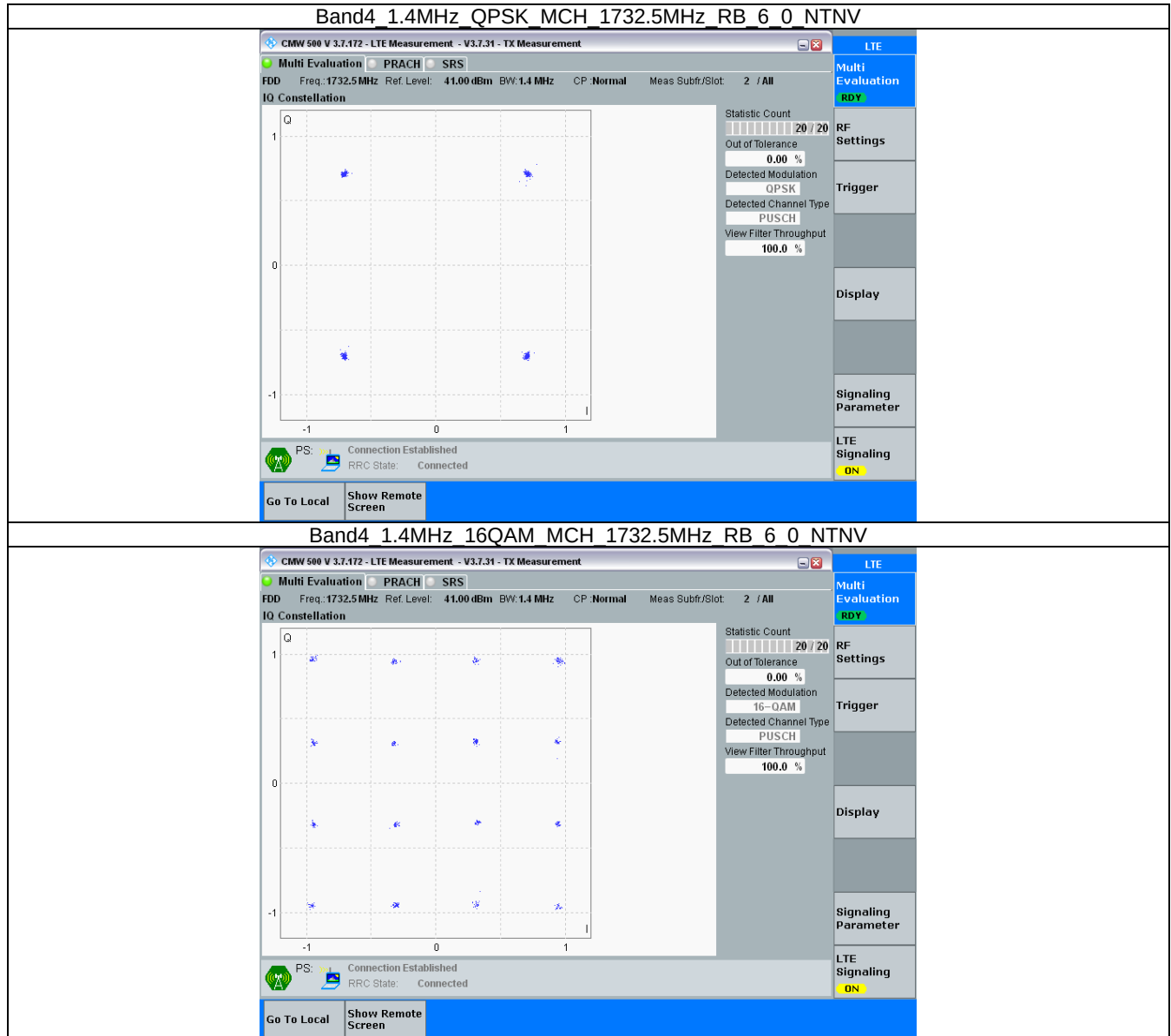
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

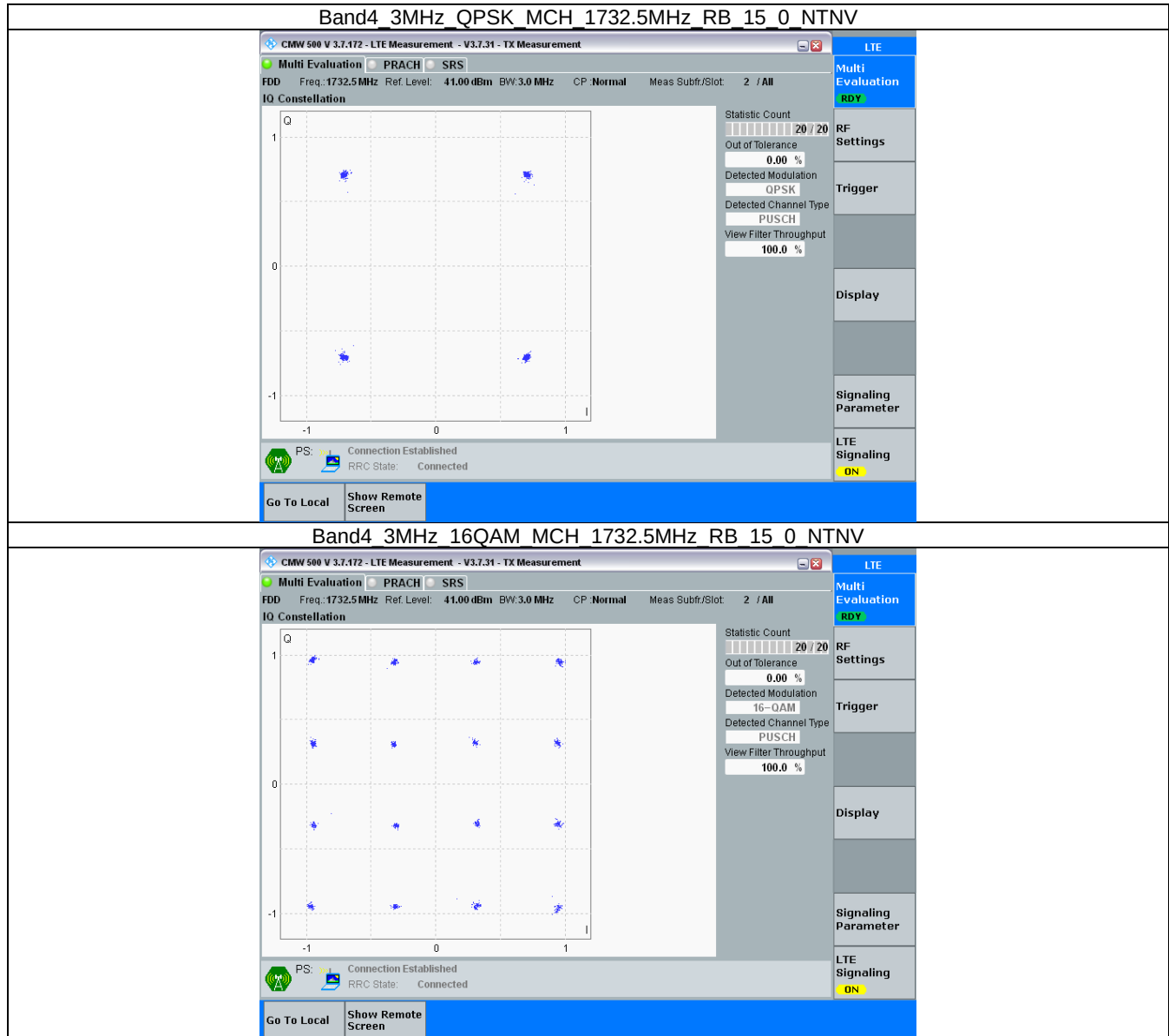
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

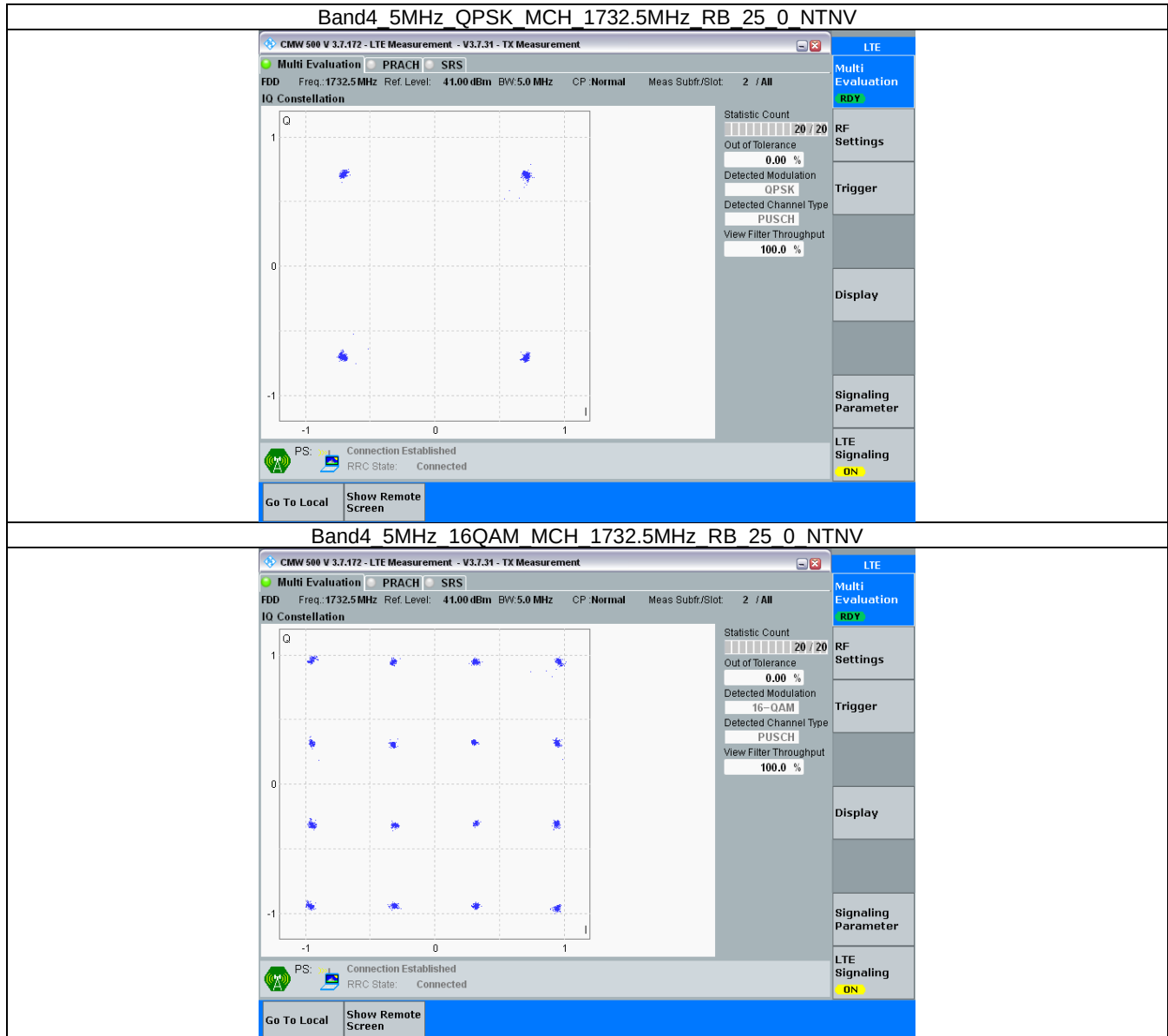
3.2.1 B4_1.4MHz



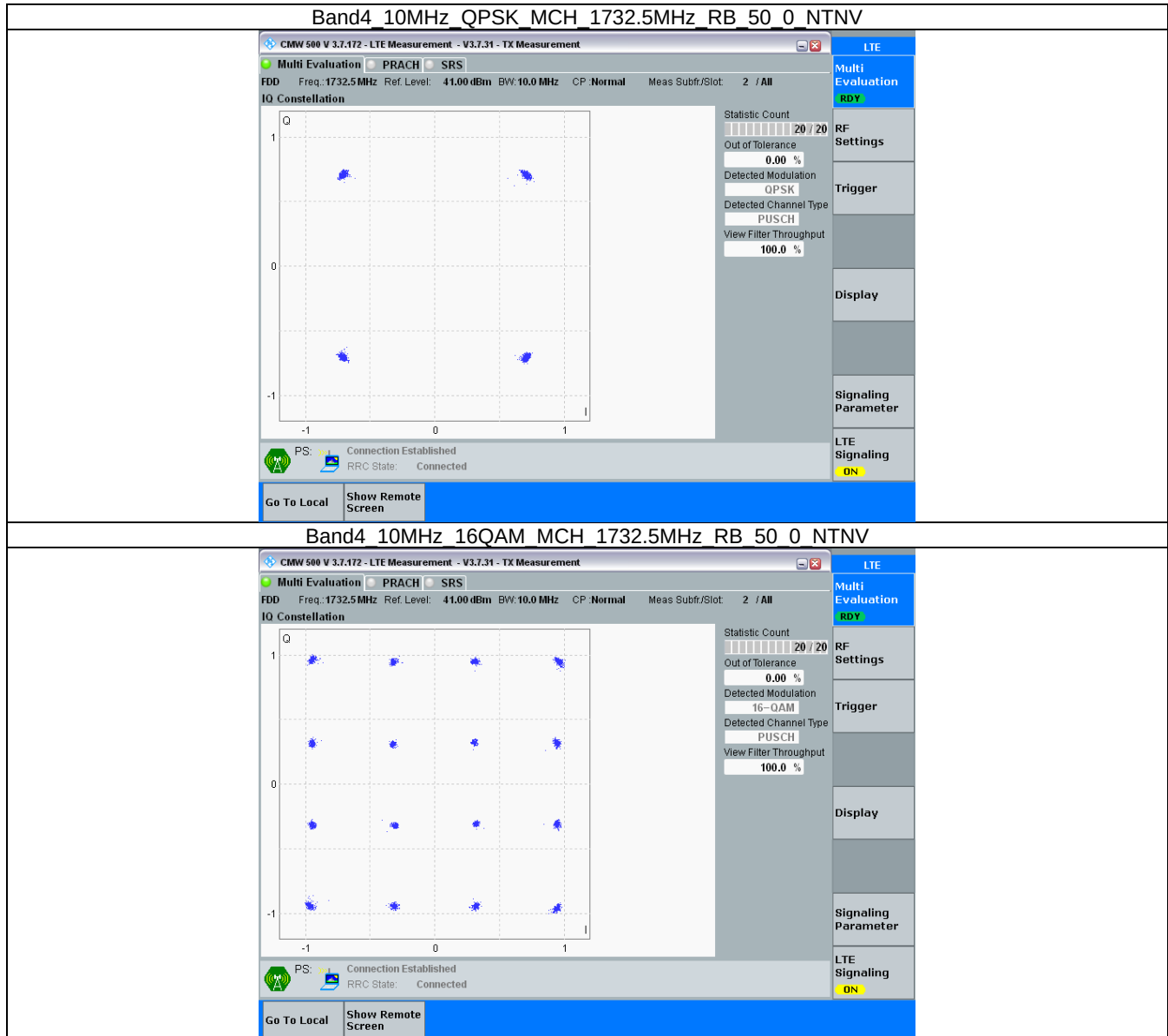
3.2.2 B4_3MHz



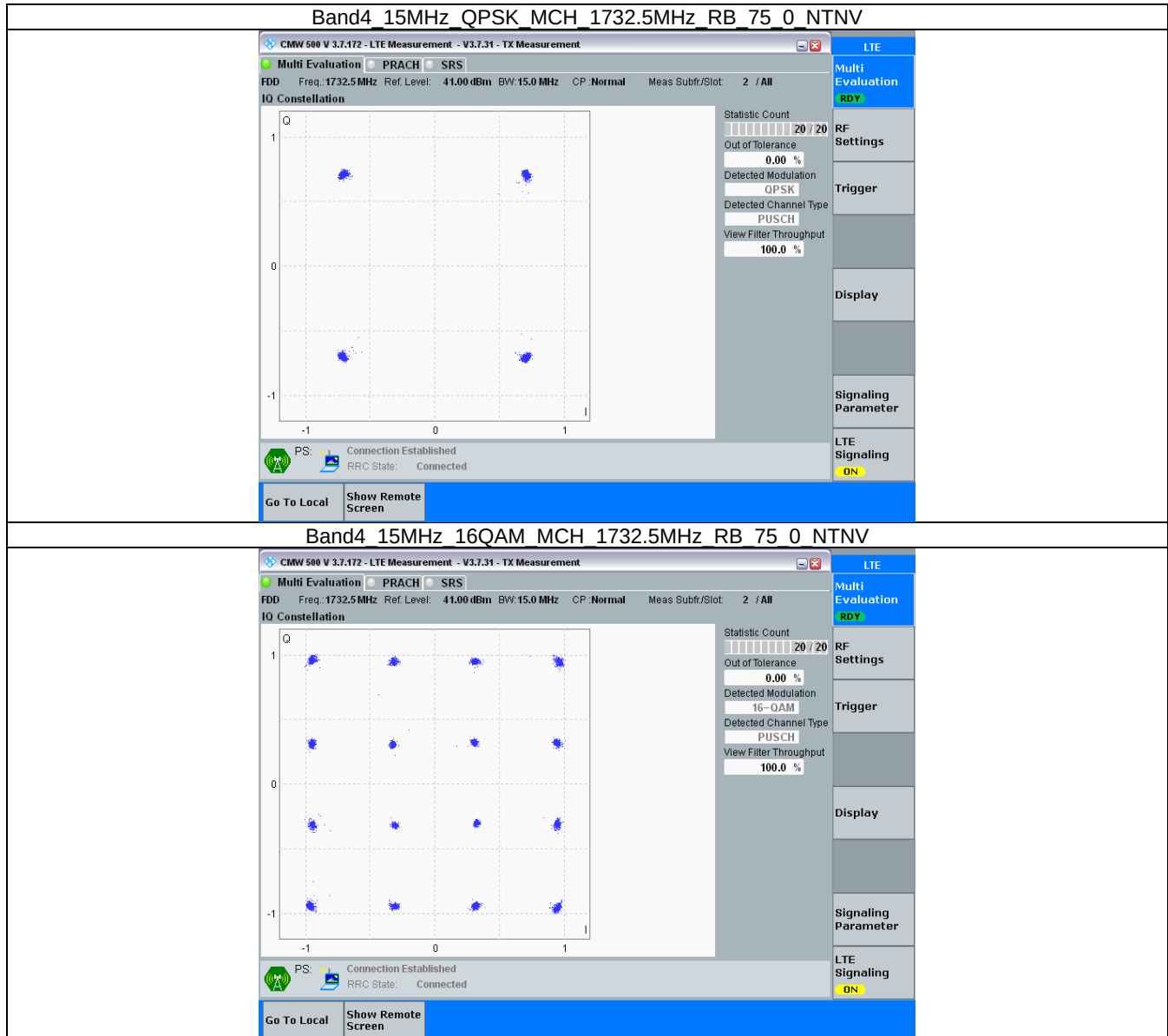
3.2.3 B4_5MHz



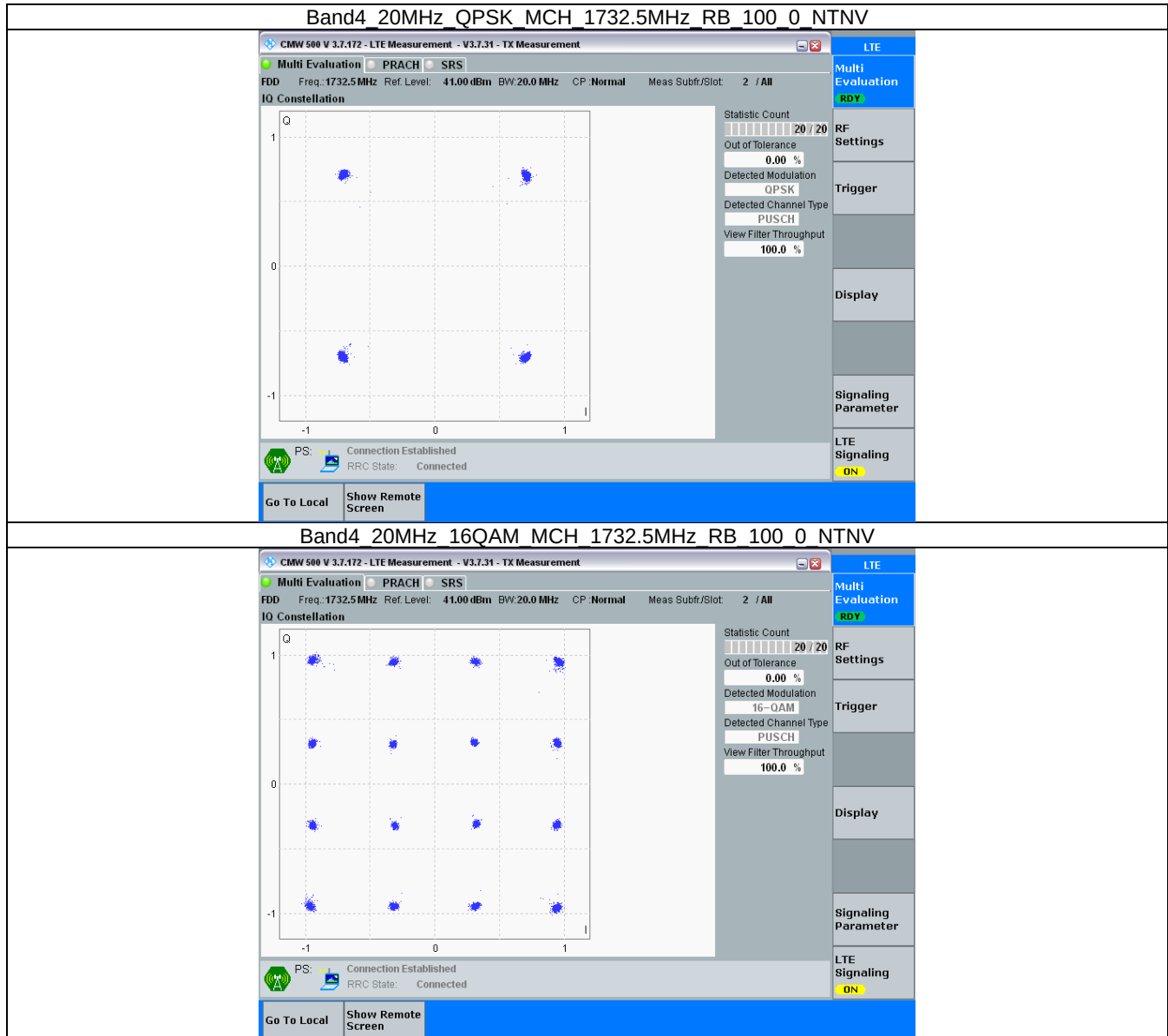
3.2.4 B4_10MHz



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 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.111	/	Pass
		1732.5	6	0	1.114	/	Pass
		1754.3	6	0	1.110	/	Pass
	16QAM	1710.7	6	0	1.114	/	Pass
		1732.5	6	0	1.112	/	Pass
		1754.3	6	0	1.105	/	Pass
3	QPSK	1711.5	15	0	2.732	/	Pass
		1732.5	15	0	2.728	/	Pass
		1753.5	15	0	2.739	/	Pass
	16QAM	1711.5	15	0	2.724	/	Pass
		1732.5	15	0	2.717	/	Pass
		1753.5	15	0	2.727	/	Pass
5	QPSK	1712.5	25	0	4.556	/	Pass
		1732.5	25	0	4.558	/	Pass
		1752.5	25	0	4.546	/	Pass
	16QAM	1712.5	25	0	4.568	/	Pass
		1732.5	25	0	4.531	/	Pass
		1752.5	25	0	4.556	/	Pass
10	QPSK	1715	50	0	9.093	/	Pass
		1732.5	50	0	9.035	/	Pass
		1750	50	0	9.082	/	Pass
	16QAM	1715	50	0	9.049	/	Pass
		1732.5	50	0	9.046	/	Pass
		1750	50	0	9.050	/	Pass
15	QPSK	1717.5	75	0	13.627	/	Pass
		1732.5	75	0	13.590	/	Pass
		1747.5	75	0	13.602	/	Pass
	16QAM	1717.5	75	0	13.591	/	Pass
		1732.5	75	0	13.632	/	Pass
		1747.5	75	0	13.595	/	Pass
20	QPSK	1720	100	0	18.126	/	Pass
		1732.5	100	0	18.126	/	Pass
		1745	100	0	18.078	/	Pass
	16QAM	1720	100	0	18.156	/	Pass
		1732.5	100	0	18.118	/	Pass
		1745	100	0	18.098	/	Pass

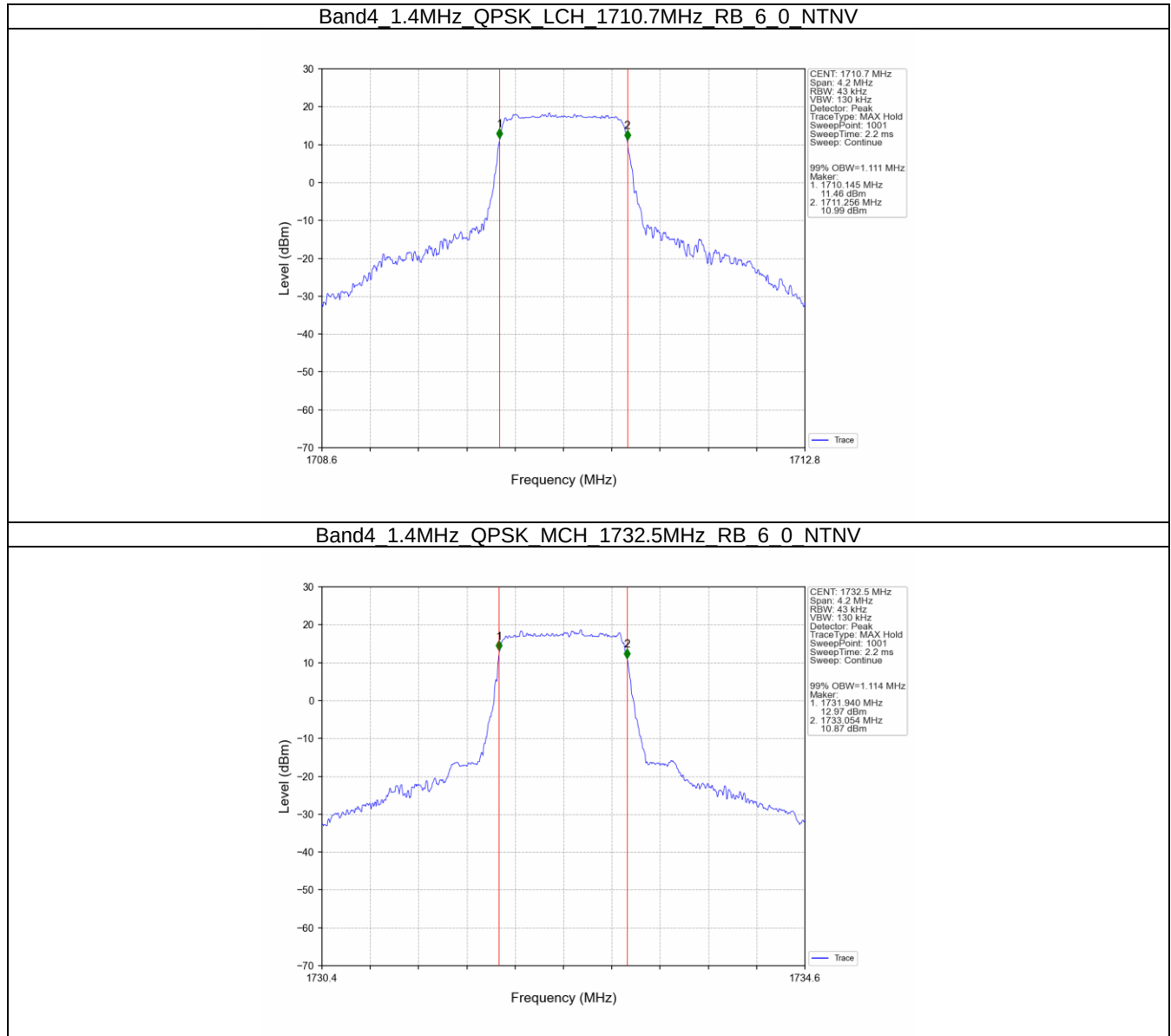
4.1.2 Band4_XDB

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	1.334	/	Pass
		1732.5	6	0	1.313	/	Pass
		1754.3	6	0	1.343	/	Pass

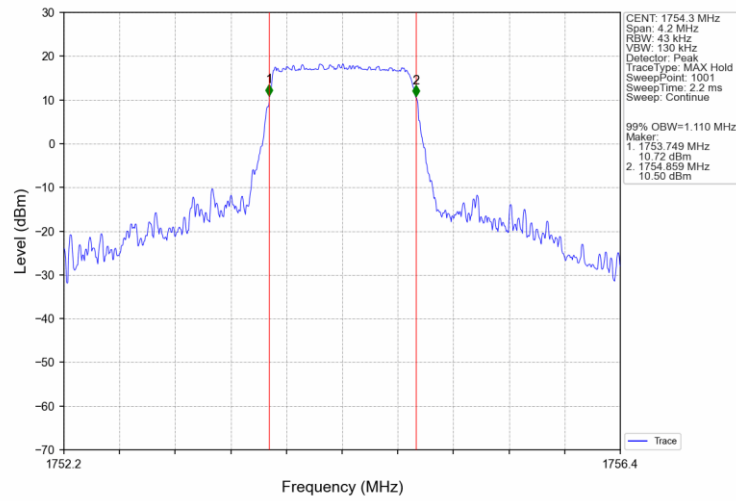
	16QAM	1710.7	6	0	1.329	/	Pass
		1732.5	6	0	1.326	/	Pass
		1754.3	6	0	1.300	/	Pass
3	QPSK	1711.5	15	0	3.013	/	Pass
		1732.5	15	0	2.998	/	Pass
		1753.5	15	0	3.015	/	Pass
	16QAM	1711.5	15	0	2.996	/	Pass
		1732.5	15	0	2.994	/	Pass
		1753.5	15	0	2.971	/	Pass
5	QPSK	1712.5	25	0	6.134	/	Pass
		1732.5	25	0	5.045	/	Pass
		1752.5	25	0	4.980	/	Pass
	16QAM	1712.5	25	0	5.015	/	Pass
		1732.5	25	0	5.020	/	Pass
		1752.5	25	0	5.037	/	Pass
10	QPSK	1715	50	0	11.283	/	Pass
		1732.5	50	0	9.956	/	Pass
		1750	50	0	9.992	/	Pass
	16QAM	1715	50	0	9.951	/	Pass
		1732.5	50	0	9.853	/	Pass
		1750	50	0	9.915	/	Pass
15	QPSK	1717.5	75	0	14.948	/	Pass
		1732.5	75	0	14.937	/	Pass
		1747.5	75	0	14.967	/	Pass
	16QAM	1717.5	75	0	14.968	/	Pass
		1732.5	75	0	14.918	/	Pass
		1747.5	75	0	14.883	/	Pass
20	QPSK	1720	100	0	19.613	/	Pass
		1732.5	100	0	19.679	/	Pass
		1745	100	0	19.772	/	Pass
	16QAM	1720	100	0	19.713	/	Pass
		1732.5	100	0	19.756	/	Pass
		1745	100	0	19.620	/	Pass

4.2 Test Graph

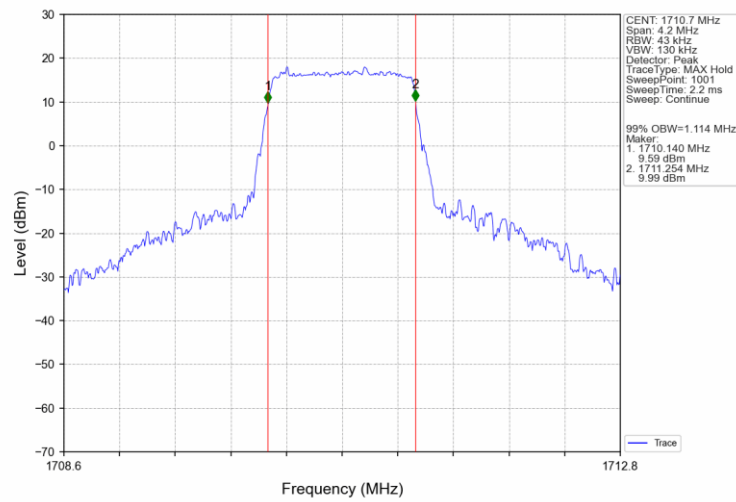
4.2.1 Band4_OBW



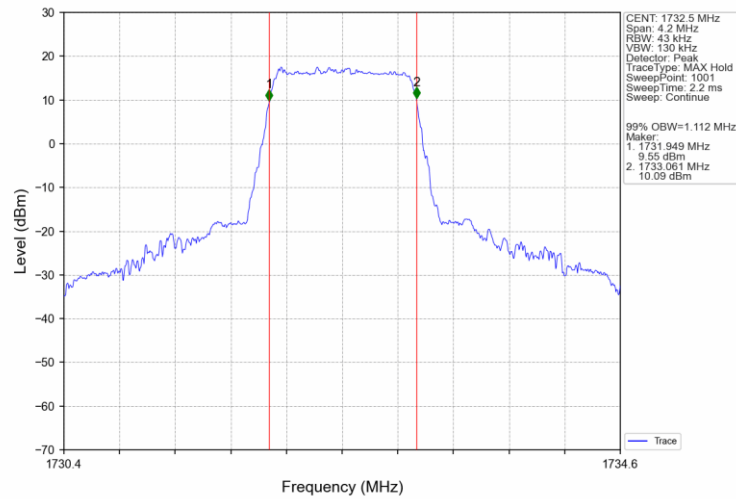
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



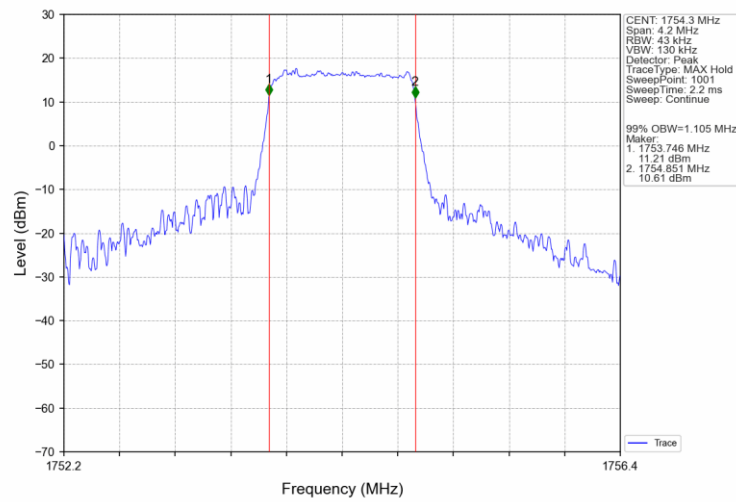
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



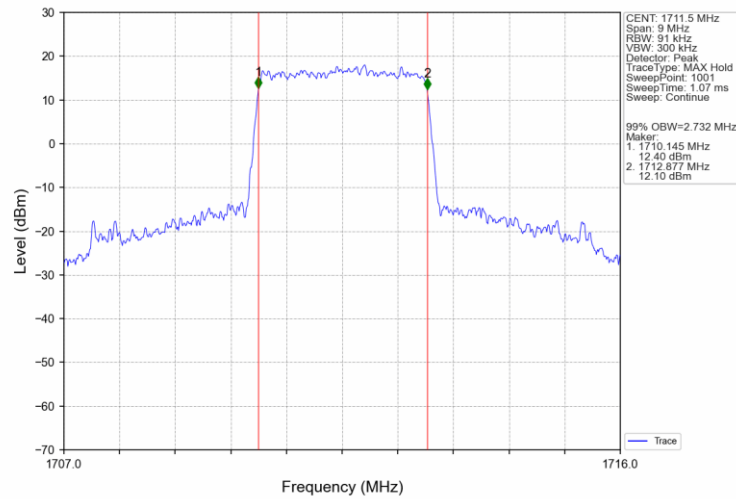
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



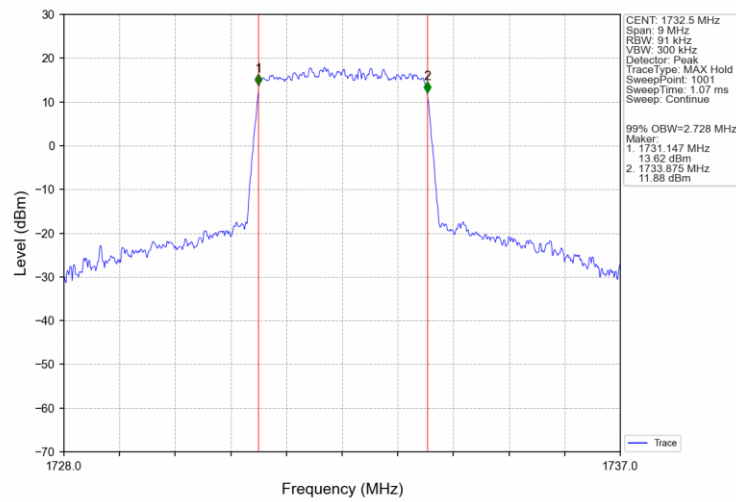
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



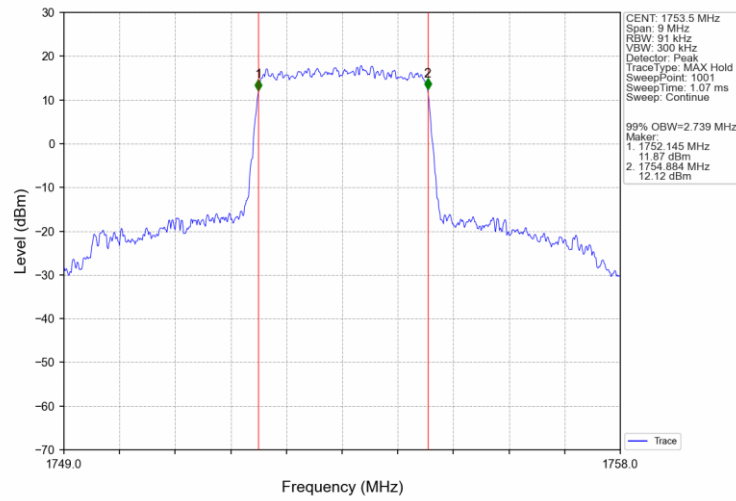
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



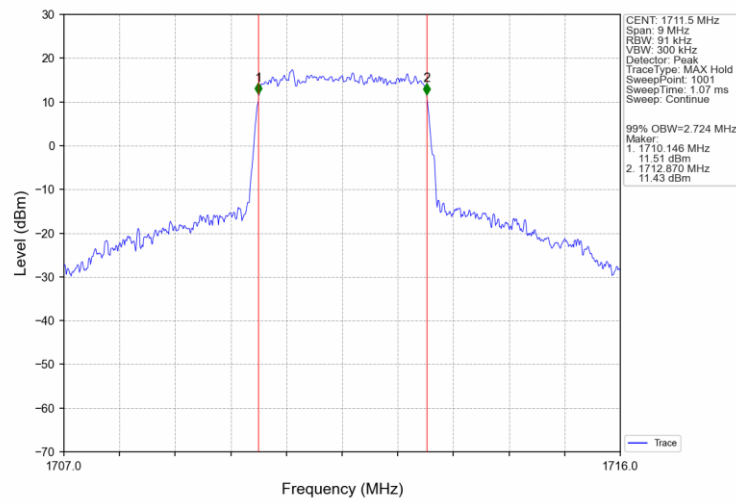
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



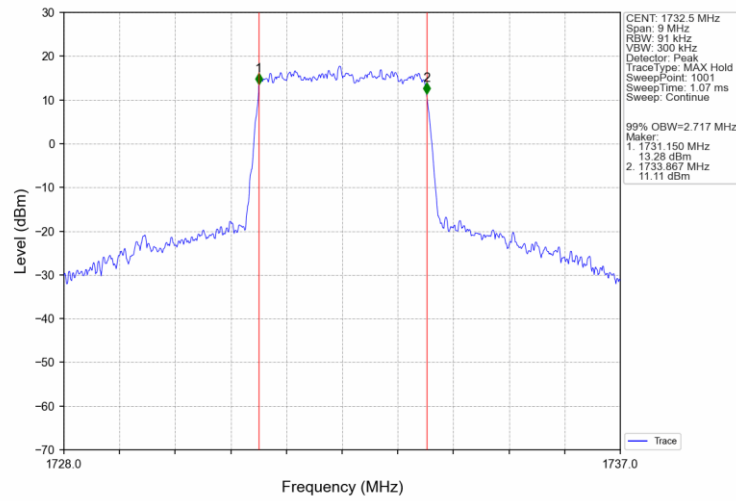
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



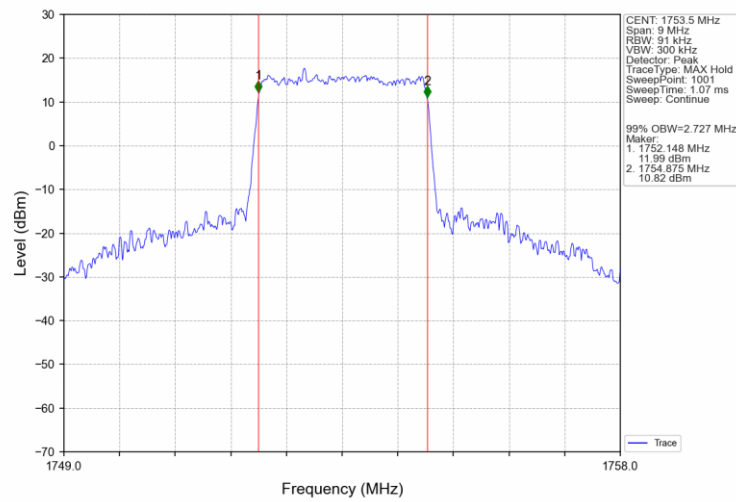
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



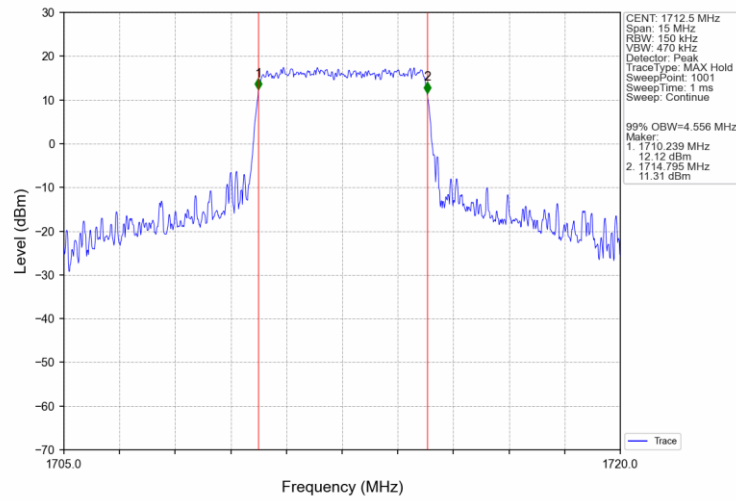
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



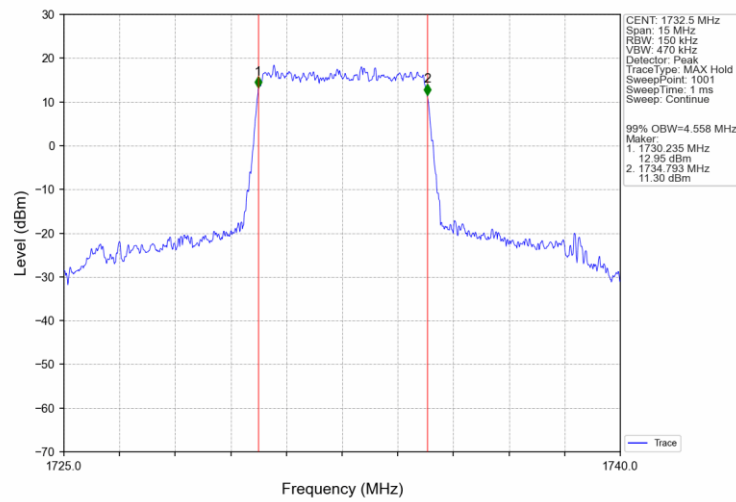
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



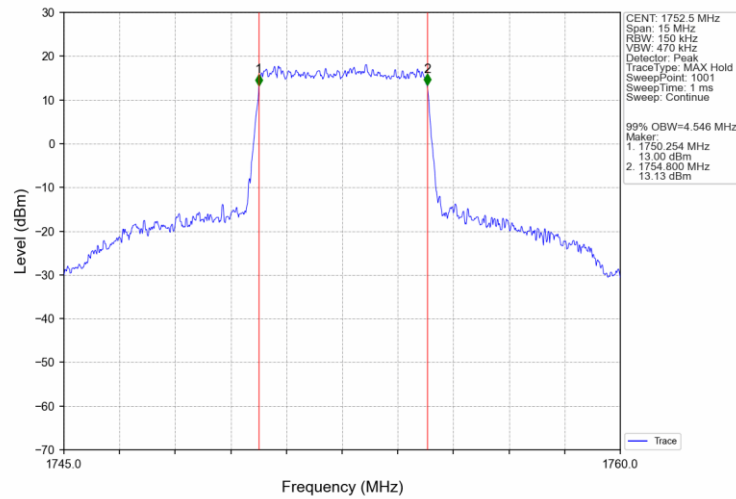
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



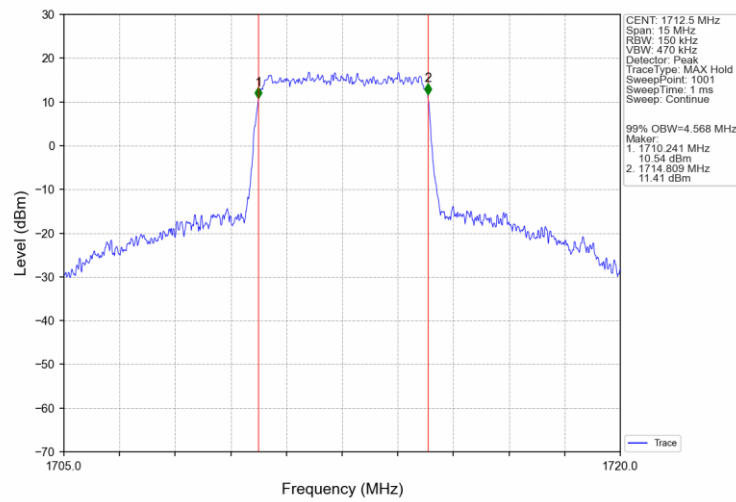
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



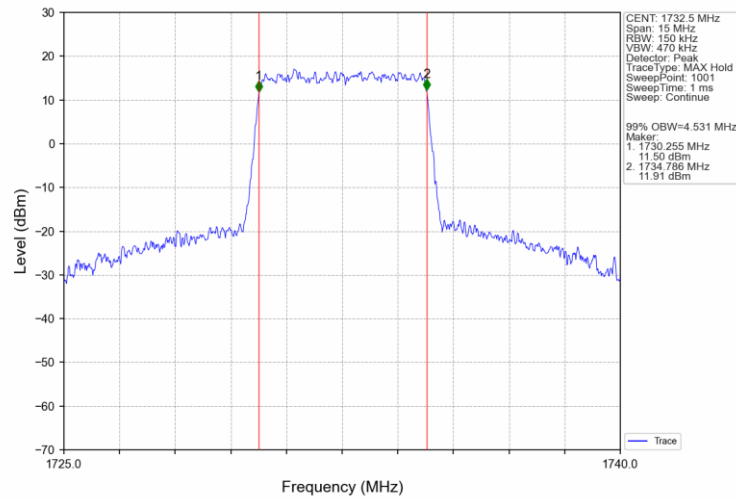
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



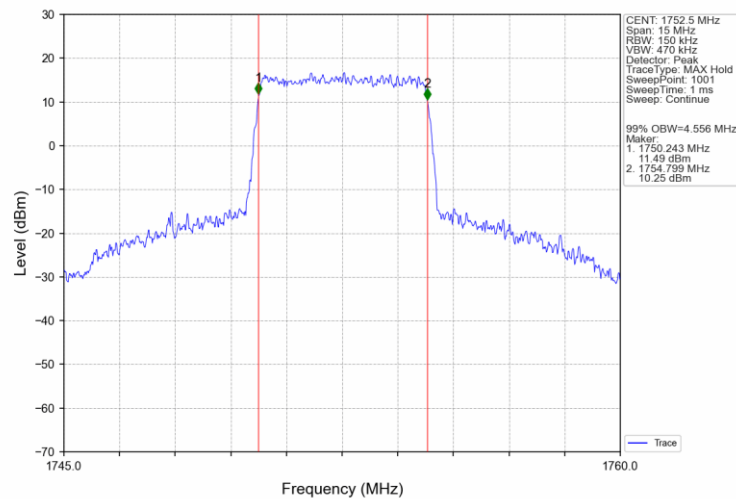
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



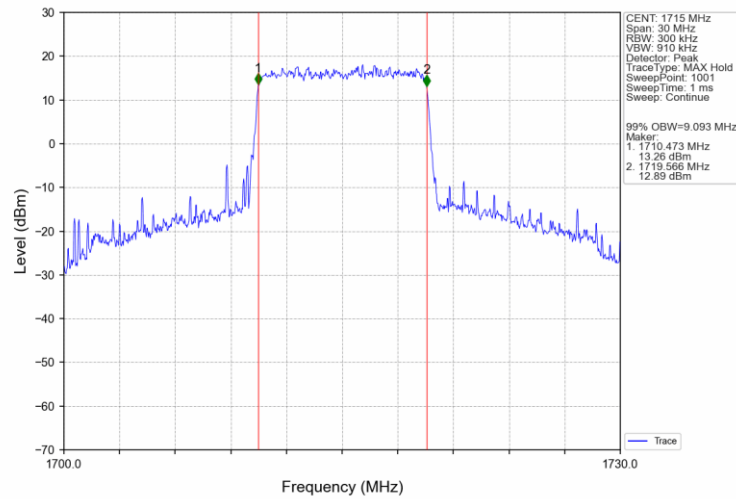
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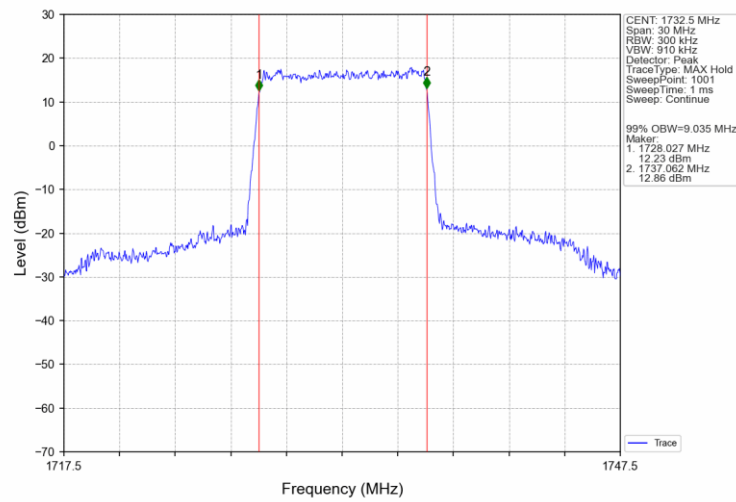
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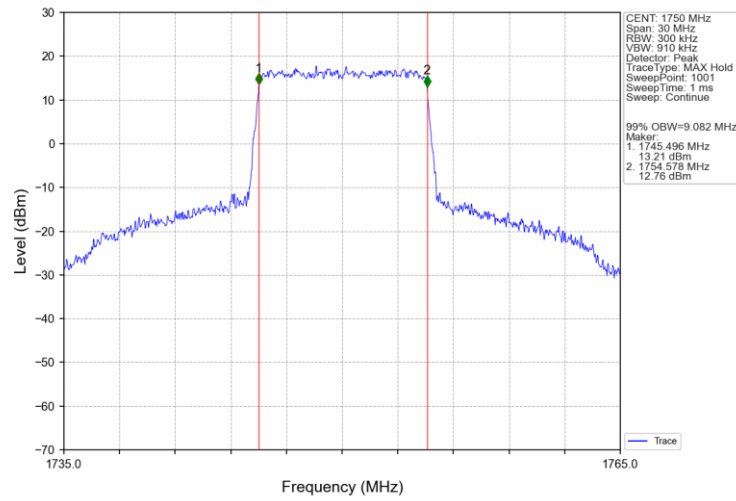
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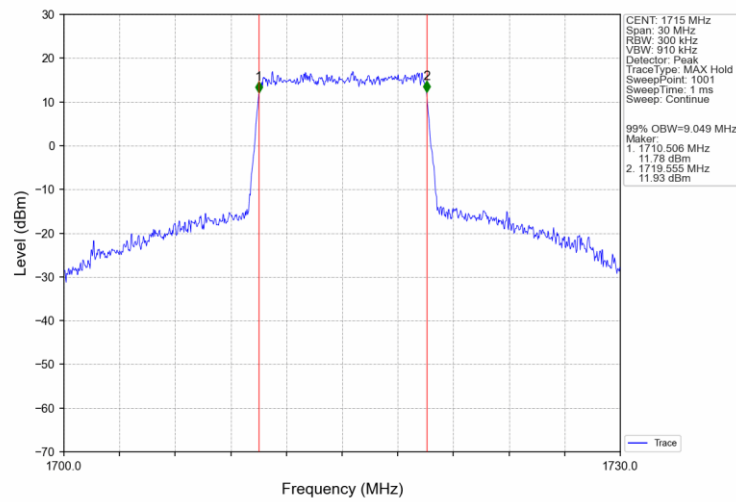
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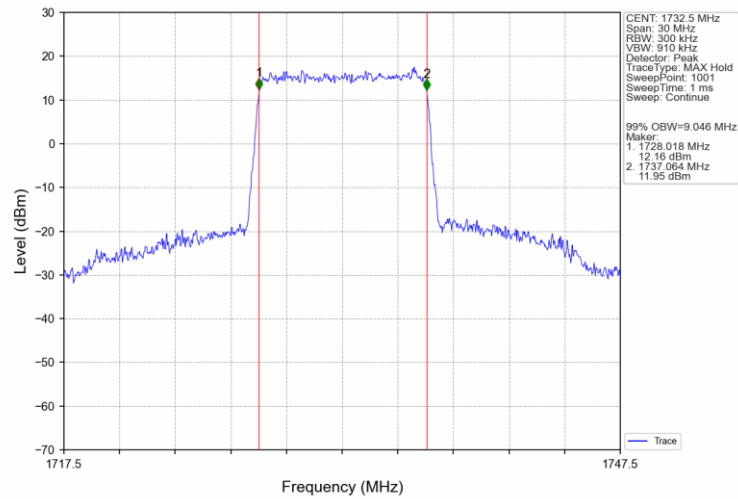
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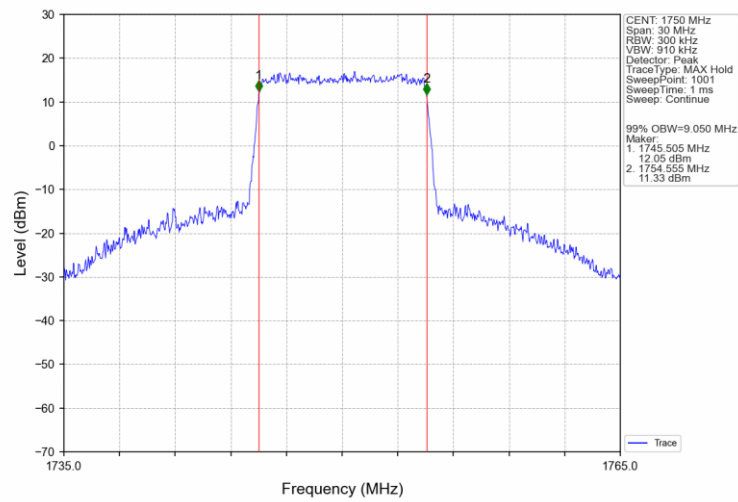
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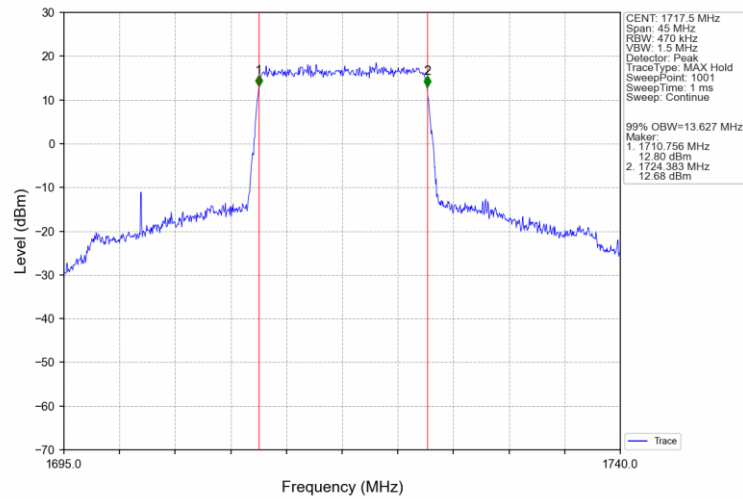
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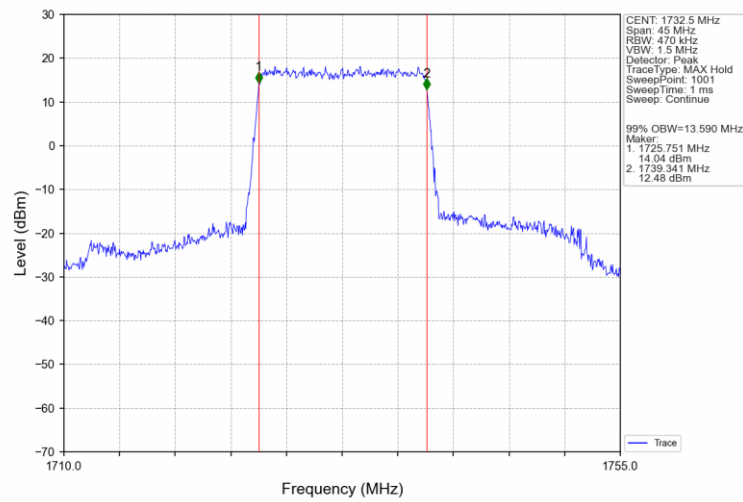
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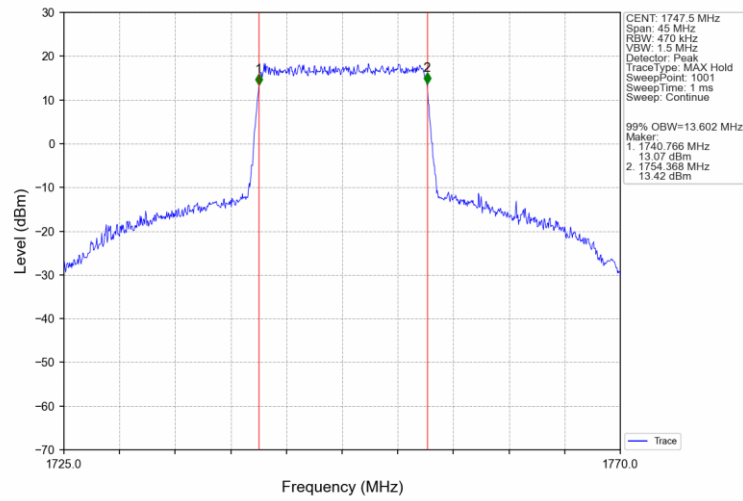
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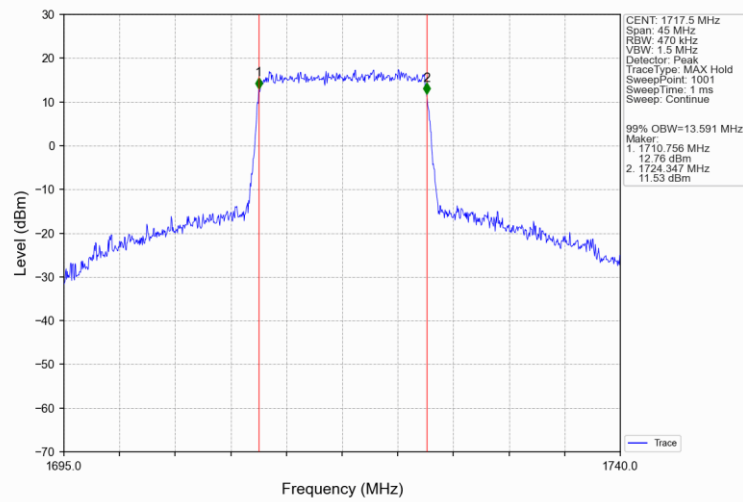
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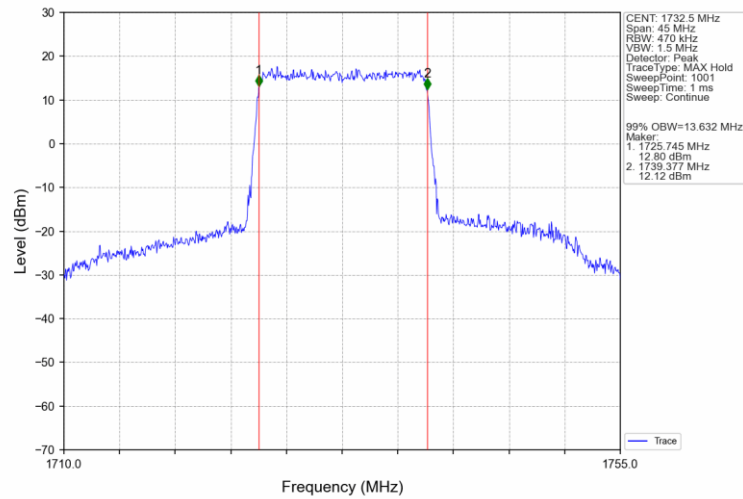
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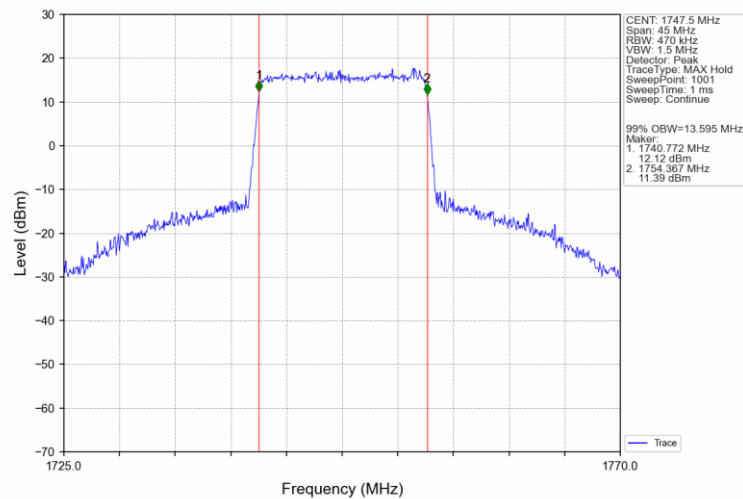
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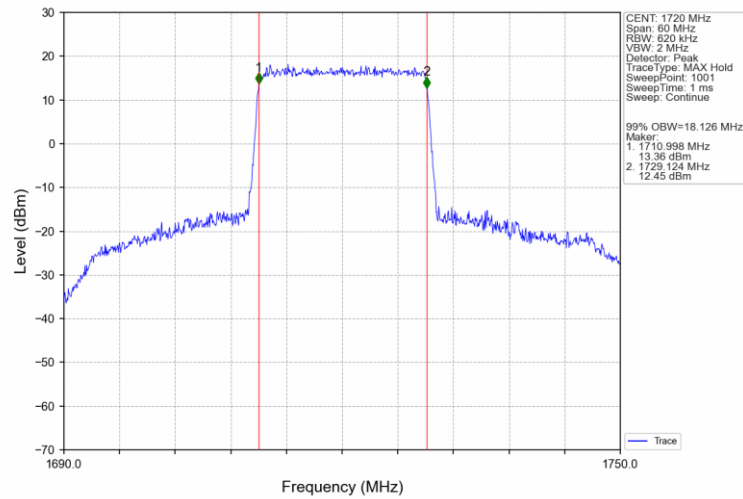
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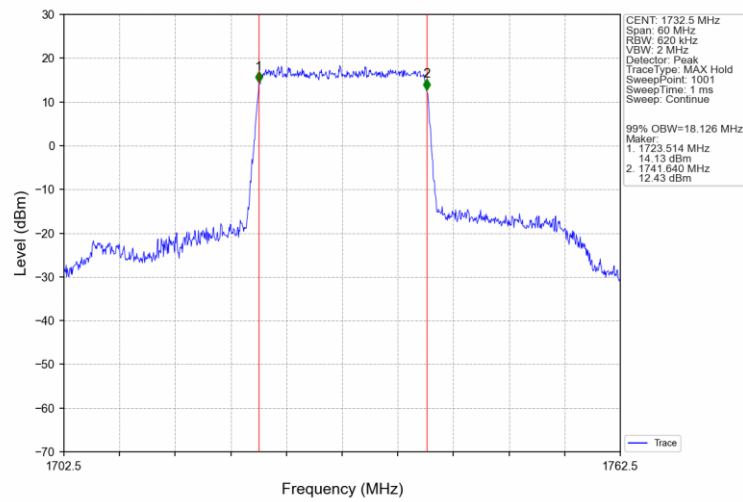
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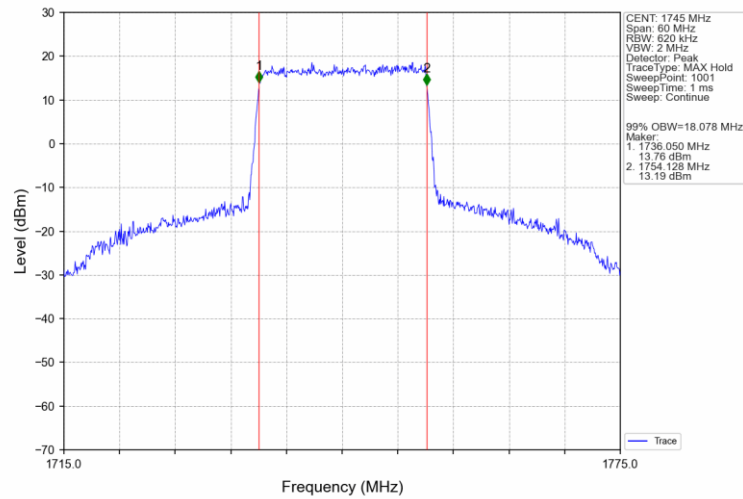
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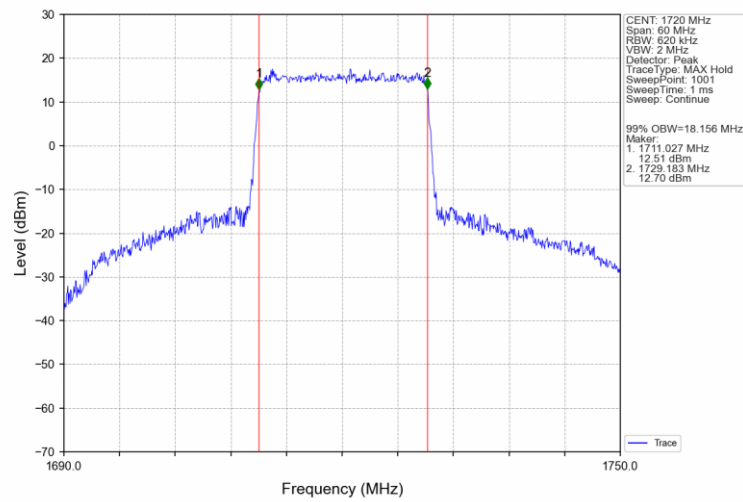
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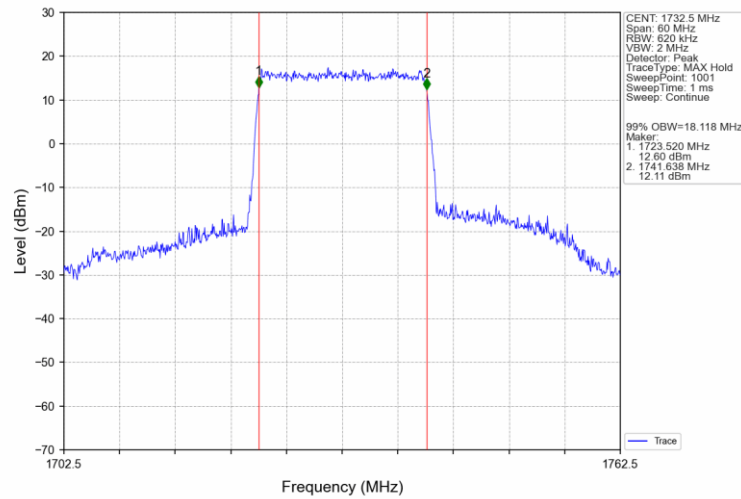
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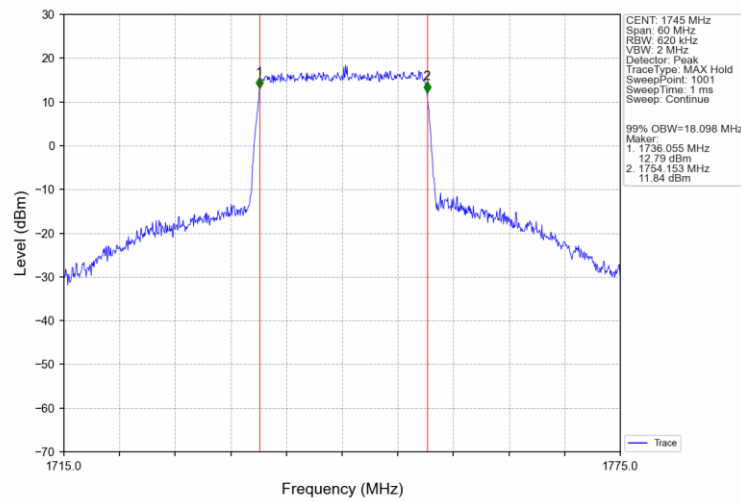
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV

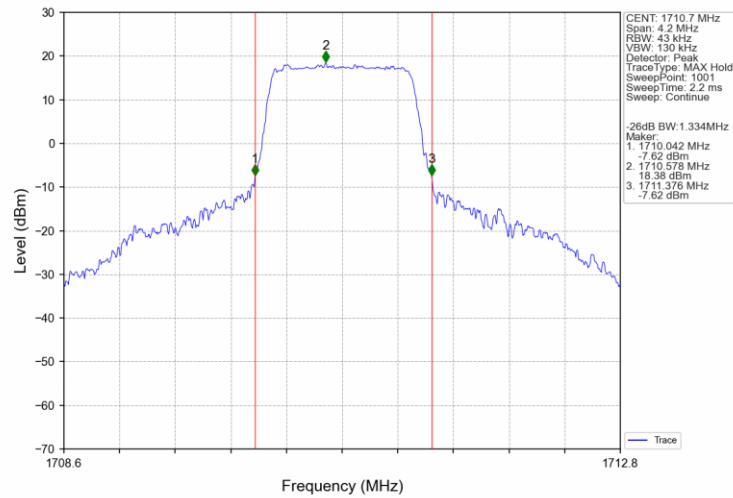


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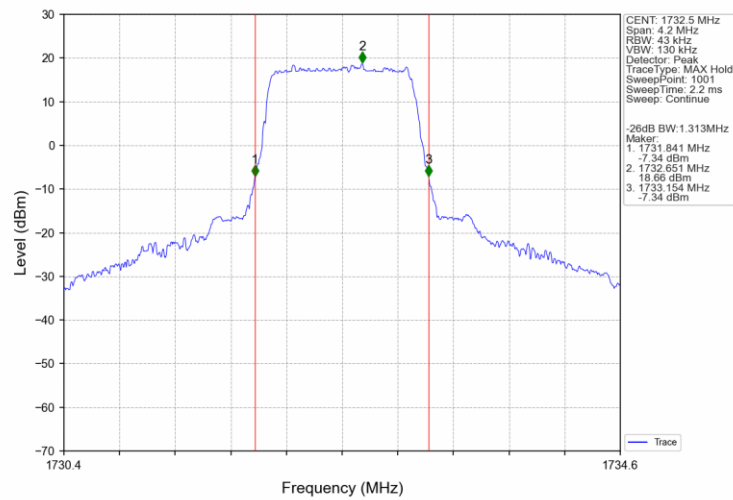


4.2.2 Band4_XDB

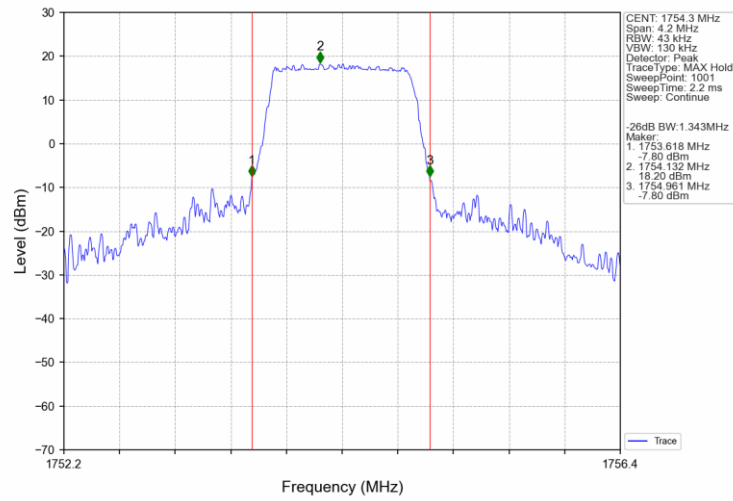
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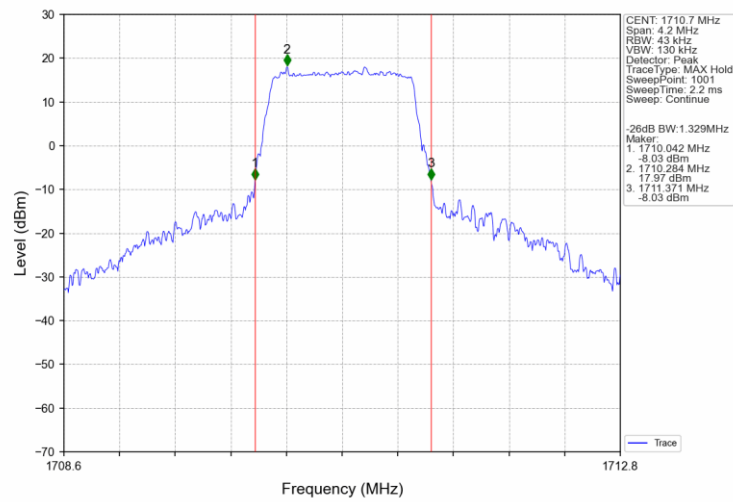
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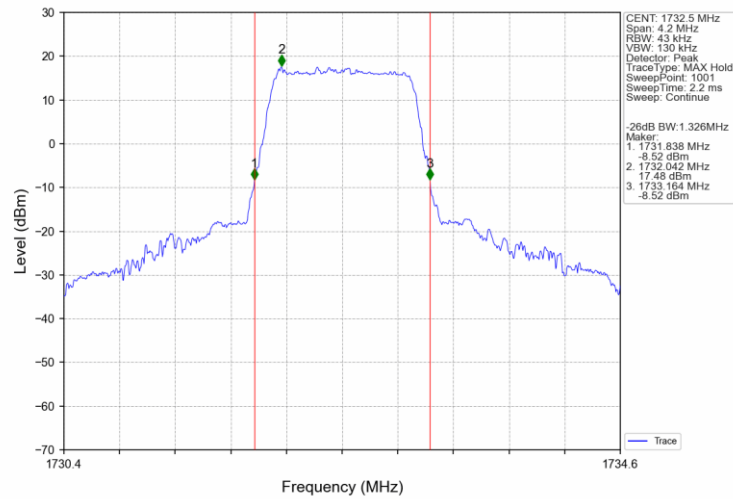
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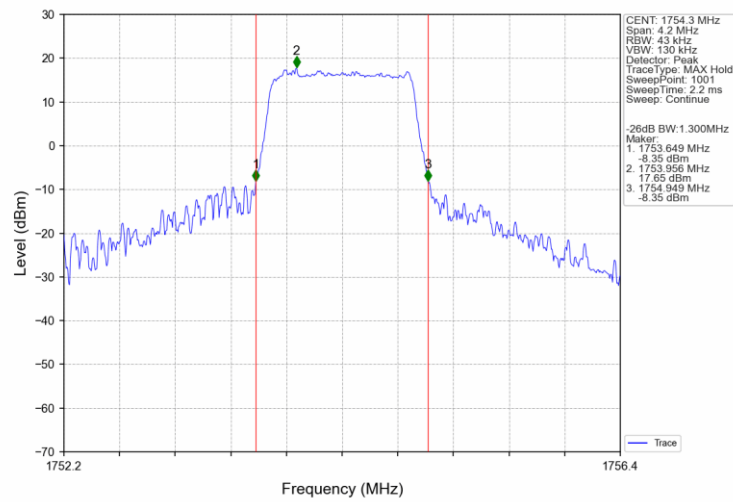
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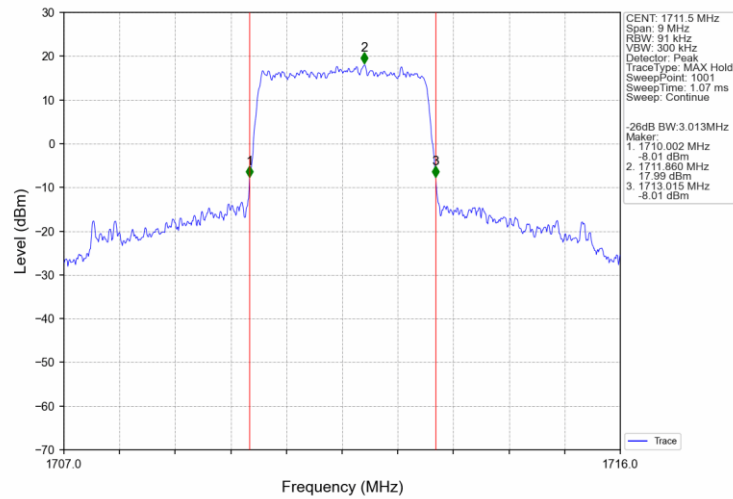
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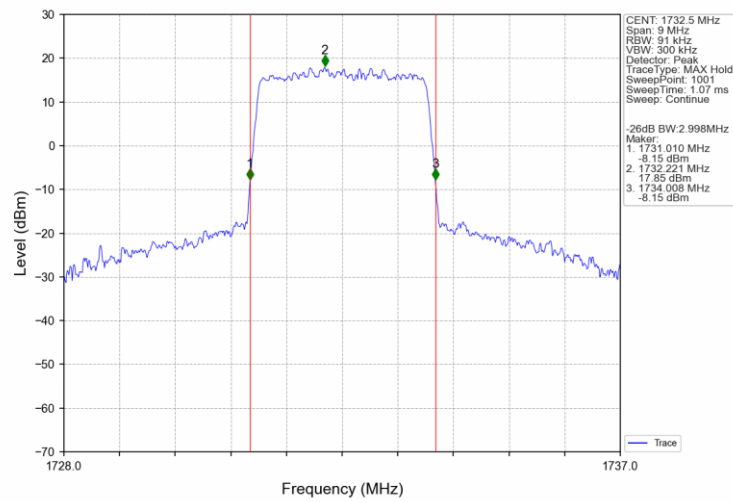
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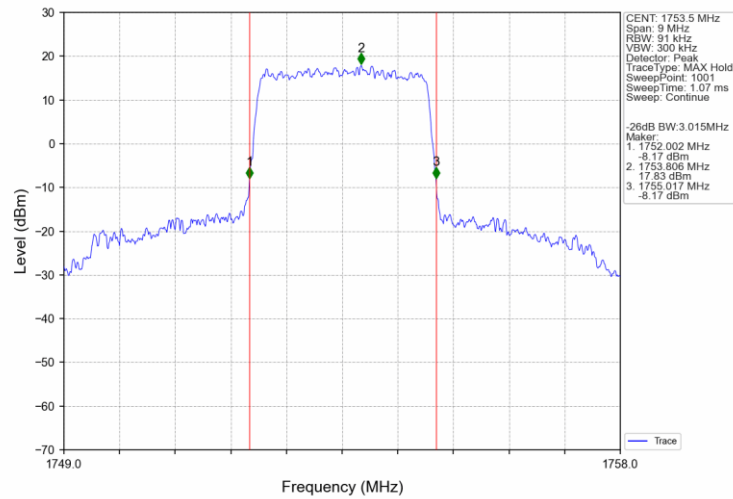
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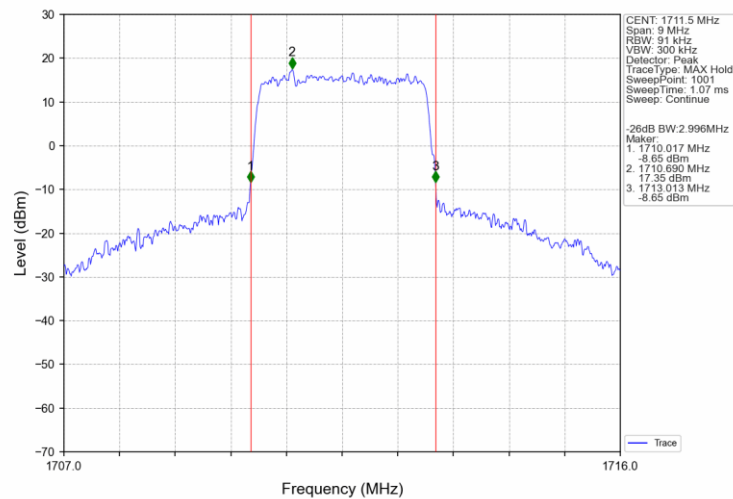
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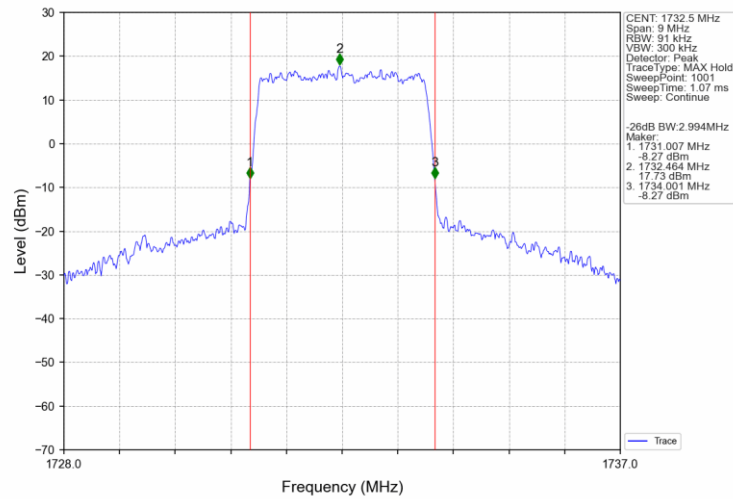
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



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

