

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 / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	22.33	1.77	24.10	<=30	Pass
			2	22.01	1.77	23.78	<=30	Pass
			5	21.86	1.77	23.63	<=30	Pass
		3	0	22.38	1.77	24.15	<=30	Pass
			2	22.37	1.77	24.14	<=30	Pass
			3	22.41	1.77	24.18	<=30	Pass
		6	0	21.37	1.77	23.14	<=30	Pass
	1732.5	1	0	21.94	1.77	23.71	<=30	Pass
			2	21.93	1.77	23.70	<=30	Pass
			5	21.92	1.77	23.69	<=30	Pass
		3	0	22.49	1.77	24.26	<=30	Pass
			2	22.46	1.77	24.23	<=30	Pass
			3	22.45	1.77	24.22	<=30	Pass
		6	0	21.52	1.77	23.29	<=30	Pass
	1754.3	1	0	21.70	1.77	23.47	<=30	Pass
			2	21.68	1.77	23.45	<=30	Pass
			5	21.70	1.77	23.47	<=30	Pass
		3	0	22.29	1.77	24.06	<=30	Pass
			2	22.26	1.77	24.03	<=30	Pass
			3	22.24	1.77	24.01	<=30	Pass
		6	0	21.27	1.77	23.04	<=30	Pass
16QAM	1710.7	1	0	20.88	1.77	22.65	<=30	Pass
			2	20.88	1.77	22.65	<=30	Pass
			5	20.94	1.77	22.71	<=30	Pass
		3	0	21.43	1.77	23.20	<=30	Pass
			2	21.41	1.77	23.18	<=30	Pass
			3	21.41	1.77	23.18	<=30	Pass
		6	0	20.28	1.77	22.05	<=30	Pass
	1732.5	1	0	21.16	1.77	22.93	<=30	Pass
			2	21.16	1.77	22.93	<=30	Pass
			5	21.16	1.77	22.93	<=30	Pass
		3	0	21.47	1.77	23.24	<=30	Pass
			2	21.44	1.77	23.21	<=30	Pass
			3	21.44	1.77	23.21	<=30	Pass
		6	0	20.55	1.77	22.32	<=30	Pass
	1754.3	1	0	20.77	1.77	22.54	<=30	Pass
			2	20.73	1.77	22.50	<=30	Pass
			5	20.76	1.77	22.53	<=30	Pass
		3	0	21.40	1.77	23.17	<=30	Pass
			2	21.44	1.77	23.21	<=30	Pass
			3	21.44	1.77	23.21	<=30	Pass
		6	0	20.25	1.77	22.02	<=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	22.26	1.77	24.03	<=30	Pass
			7	21.84	1.77	23.61	<=30	Pass
			14	21.84	1.77	23.61	<=30	Pass
		8	0	21.33	1.77	23.10	<=30	Pass
			4	21.33	1.77	23.10	<=30	Pass
			7	21.36	1.77	23.13	<=30	Pass
		15	0	21.35	1.77	23.12	<=30	Pass
	1732.5	1	0	21.90	1.77	23.67	<=30	Pass
			7	21.91	1.77	23.68	<=30	Pass
			14	21.90	1.77	23.67	<=30	Pass
		8	0	21.47	1.77	23.24	<=30	Pass
			4	21.42	1.77	23.19	<=30	Pass
			7	21.42	1.77	23.19	<=30	Pass
		15	0	21.44	1.77	23.21	<=30	Pass
	1753.5	1	0	21.70	1.77	23.47	<=30	Pass
			7	21.67	1.77	23.44	<=30	Pass
			14	21.61	1.77	23.38	<=30	Pass
		8	0	21.17	1.77	22.94	<=30	Pass
			4	21.16	1.77	22.93	<=30	Pass
			7	21.15	1.77	22.92	<=30	Pass
		15	0	21.18	1.77	22.95	<=30	Pass
16QAM	1711.5	1	0	20.89	1.77	22.66	<=30	Pass
			7	20.91	1.77	22.68	<=30	Pass
			14	20.86	1.77	22.63	<=30	Pass
		8	0	20.41	1.77	22.18	<=30	Pass
			4	20.41	1.77	22.18	<=30	Pass
			7	20.41	1.77	22.18	<=30	Pass
		15	0	20.39	1.77	22.16	<=30	Pass
	1732.5	1	0	21.16	1.77	22.93	<=30	Pass
			7	21.15	1.77	22.92	<=30	Pass
			14	21.14	1.77	22.91	<=30	Pass
		8	0	20.45	1.77	22.22	<=30	Pass
			4	20.40	1.77	22.17	<=30	Pass
			7	20.39	1.77	22.16	<=30	Pass
		15	0	20.38	1.77	22.15	<=30	Pass
	1753.5	1	0	21.30	1.77	23.07	<=30	Pass
			7	21.30	1.77	23.07	<=30	Pass
			14	21.20	1.77	22.97	<=30	Pass
		8	0	20.35	1.77	22.12	<=30	Pass
			4	20.32	1.77	22.09	<=30	Pass
			7	20.33	1.77	22.10	<=30	Pass
		15	0	20.25	1.77	22.02	<=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	21.94	1.77	23.71	<=30	Pass
			13	21.87	1.77	23.64	<=30	Pass
			24	21.94	1.77	23.71	<=30	Pass
		12	0	21.34	1.77	23.11	<=30	Pass
			6	21.38	1.77	23.15	<=30	Pass
			13	21.36	1.77	23.13	<=30	Pass
		25	0	21.37	1.77	23.14	<=30	Pass
	1732.5	1	0	22.00	1.77	23.77	<=30	Pass
			13	21.97	1.77	23.74	<=30	Pass
			24	22.02	1.77	23.79	<=30	Pass
		12	0	21.52	1.77	23.29	<=30	Pass
			6	21.47	1.77	23.24	<=30	Pass
			13	21.43	1.77	23.20	<=30	Pass
		25	0	21.50	1.77	23.27	<=30	Pass
	1752.5	1	0	21.90	1.77	23.67	<=30	Pass
			13	21.81	1.77	23.58	<=30	Pass
			24	21.84	1.77	23.61	<=30	Pass
		12	0	21.20	1.77	22.97	<=30	Pass
			6	21.21	1.77	22.98	<=30	Pass
			13	21.22	1.77	22.99	<=30	Pass
		25	0	21.23	1.77	23.00	<=30	Pass
16QAM	1712.5	1	0	21.03	1.77	22.80	<=30	Pass
			13	20.95	1.77	22.72	<=30	Pass
			24	21.03	1.77	22.80	<=30	Pass
		12	0	20.32	1.77	22.09	<=30	Pass
			6	20.35	1.77	22.12	<=30	Pass
			13	20.35	1.77	22.12	<=30	Pass
		25	0	20.45	1.77	22.22	<=30	Pass
	1732.5	1	0	21.32	1.77	23.09	<=30	Pass
			13	21.23	1.77	23.00	<=30	Pass
			24	21.29	1.77	23.06	<=30	Pass
		12	0	20.55	1.77	22.32	<=30	Pass
			6	20.50	1.77	22.27	<=30	Pass
			13	20.46	1.77	22.23	<=30	Pass
		25	0	20.50	1.77	22.27	<=30	Pass
	1752.5	1	0	20.64	1.77	22.41	<=30	Pass
			13	20.56	1.77	22.33	<=30	Pass
			24	20.60	1.77	22.37	<=30	Pass
		12	0	20.19	1.77	21.96	<=30	Pass
			6	20.21	1.77	21.98	<=30	Pass
			13	20.21	1.77	21.98	<=30	Pass
		25	0	20.26	1.77	22.03	<=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	21.84	1.77	23.61	<=30	Pass
			25	21.87	1.77	23.64	<=30	Pass
			49	21.95	1.77	23.72	<=30	Pass
		25	0	21.34	1.77	23.11	<=30	Pass
			13	21.41	1.77	23.18	<=30	Pass
			25	21.54	1.77	23.31	<=30	Pass
		50	0	21.45	1.77	23.22	<=30	Pass
	1732.5	1	0	21.94	1.77	23.71	<=30	Pass
			25	21.97	1.77	23.74	<=30	Pass
			49	21.96	1.77	23.73	<=30	Pass
		25	0	21.51	1.77	23.28	<=30	Pass
			13	21.52	1.77	23.29	<=30	Pass
			25	21.42	1.77	23.19	<=30	Pass
		50	0	21.49	1.77	23.26	<=30	Pass
	1750	1	0	21.76	1.77	23.53	<=30	Pass
			25	21.69	1.77	23.46	<=30	Pass
			49	21.67	1.77	23.44	<=30	Pass
		25	0	21.20	1.77	22.97	<=30	Pass
			13	21.21	1.77	22.98	<=30	Pass
			25	21.27	1.77	23.04	<=30	Pass
		50	0	21.29	1.77	23.06	<=30	Pass
16QAM	1715	1	0	20.87	1.77	22.64	<=30	Pass
			25	20.89	1.77	22.66	<=30	Pass
			49	20.99	1.77	22.76	<=30	Pass
		12	0	21.41	1.77	23.18	<=30	Pass
			19	21.45	1.77	23.22	<=30	Pass
			38	21.54	1.77	23.31	<=30	Pass
		27	0	20.35	1.77	22.12	<=30	Pass
	1732.5	1	0	21.14	1.77	22.91	<=30	Pass
			25	21.16	1.77	22.93	<=30	Pass
			49	21.16	1.77	22.93	<=30	Pass
		12	0	21.46	1.77	23.23	<=30	Pass
			19	21.49	1.77	23.26	<=30	Pass
			38	21.45	1.77	23.22	<=30	Pass
		27	0	20.53	1.77	22.30	<=30	Pass
	1750	1	0	21.36	1.77	23.13	<=30	Pass
			25	21.26	1.77	23.03	<=30	Pass
			49	21.27	1.77	23.04	<=30	Pass
		12	0	21.30	1.77	23.07	<=30	Pass
			19	21.28	1.77	23.05	<=30	Pass
			38	21.31	1.77	23.08	<=30	Pass
		27	23	20.24	1.77	22.01	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	21.75	1.77	23.52	<=30	Pass
			38	21.82	1.77	23.59	<=30	Pass
			74	21.84	1.77	23.61	<=30	Pass
		36	0	21.30	1.77	23.07	<=30	Pass
			18	21.36	1.77	23.13	<=30	Pass
			39	21.50	1.77	23.27	<=30	Pass
		75	0	21.41	1.77	23.18	<=30	Pass
	1732.5	1	0	21.86	1.77	23.63	<=30	Pass
			38	21.94	1.77	23.71	<=30	Pass
			74	21.86	1.77	23.63	<=30	Pass
		36	0	21.44	1.77	23.21	<=30	Pass
			18	21.43	1.77	23.20	<=30	Pass
			39	21.42	1.77	23.19	<=30	Pass
		75	0	21.44	1.77	23.21	<=30	Pass
	1747.5	1	0	21.75	1.77	23.52	<=30	Pass
			38	21.80	1.77	23.57	<=30	Pass
			74	21.60	1.77	23.37	<=30	Pass
		36	0	21.29	1.77	23.06	<=30	Pass
			18	21.22	1.77	22.99	<=30	Pass
			39	21.25	1.77	23.02	<=30	Pass
		75	0	21.29	1.77	23.06	<=30	Pass
16QAM	1717.5	1	0	21.21	1.77	22.98	<=30	Pass
			38	21.27	1.77	23.04	<=30	Pass
			74	21.30	1.77	23.07	<=30	Pass
		12	0	21.28	1.77	23.05	<=30	Pass
			31	21.36	1.77	23.13	<=30	Pass
			63	21.39	1.77	23.16	<=30	Pass
		27	0	20.30	1.77	22.07	<=30	Pass
	1732.5	1	0	21.09	1.77	22.86	<=30	Pass
			38	21.16	1.77	22.93	<=30	Pass
			74	21.06	1.77	22.83	<=30	Pass
		12	0	21.41	1.77	23.18	<=30	Pass
			31	21.50	1.77	23.27	<=30	Pass
			63	21.41	1.77	23.18	<=30	Pass
		27	0	20.50	1.77	22.27	<=30	Pass
	1747.5	1	0	21.36	1.77	23.13	<=30	Pass
			38	21.39	1.77	23.16	<=30	Pass
			74	21.19	1.77	22.96	<=30	Pass
		12	0	21.37	1.77	23.14	<=30	Pass
			31	21.32	1.77	23.09	<=30	Pass
			63	21.25	1.77	23.02	<=30	Pass
		27	48	20.21	1.77	21.98	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	21.75	1.77	23.52	<=30	Pass
			50	21.88	1.77	23.65	<=30	Pass
			99	21.86	1.77	23.63	<=30	Pass
		50	0	21.21	1.77	22.98	<=30	Pass
			25	21.48	1.77	23.25	<=30	Pass
			50	21.61	1.77	23.38	<=30	Pass
		100	0	21.44	1.77	23.21	<=30	Pass
	1732.5	1	0	21.86	1.77	23.63	<=30	Pass
			50	21.99	1.77	23.76	<=30	Pass
			99	21.82	1.77	23.59	<=30	Pass
		50	0	21.44	1.77	23.21	<=30	Pass
			25	21.52	1.77	23.29	<=30	Pass
			50	21.41	1.77	23.18	<=30	Pass
		100	0	21.39	1.77	23.16	<=30	Pass
	1745	1	0	21.86	1.77	23.63	<=30	Pass
			50	21.86	1.77	23.63	<=30	Pass
			99	21.64	1.77	23.41	<=30	Pass
		50	0	21.40	1.77	23.17	<=30	Pass
			25	21.35	1.77	23.12	<=30	Pass
			50	21.34	1.77	23.11	<=30	Pass
		100	0	21.36	1.77	23.13	<=30	Pass
16QAM	1720	1	0	21.35	1.77	23.12	<=30	Pass
			50	21.47	1.77	23.24	<=30	Pass
			99	21.53	1.77	23.30	<=30	Pass
		12	0	21.31	1.77	23.08	<=30	Pass
			44	21.40	1.77	23.17	<=30	Pass
			88	21.41	1.77	23.18	<=30	Pass
		27	0	20.26	1.77	22.03	<=30	Pass
	1732.5	1	0	21.13	1.77	22.90	<=30	Pass
			50	21.21	1.77	22.98	<=30	Pass
			99	21.02	1.77	22.79	<=30	Pass
		12	0	21.36	1.77	23.13	<=30	Pass
			44	21.47	1.77	23.24	<=30	Pass
			88	21.25	1.77	23.02	<=30	Pass
		27	0	20.34	1.77	22.11	<=30	Pass
	1745	1	0	21.20	1.77	22.97	<=30	Pass
			50	21.14	1.77	22.91	<=30	Pass
			99	20.94	1.77	22.71	<=30	Pass
		12	0	21.41	1.77	23.18	<=30	Pass
			44	21.35	1.77	23.12	<=30	Pass
			88	21.20	1.77	22.97	<=30	Pass
		27	73	20.19	1.77	21.96	<=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	3.26	-6.495	-0.0038	-2.5 to 2.5	Pass
					3.70	-14.019	-0.0082	-2.5 to 2.5	Pass
					3.15	-11.845	-0.0069	-2.5 to 2.5	Pass
				-30	3.70	3.390	0.0020	-2.5 to 2.5	Pass
				-20	3.70	-3.448	-0.0020	-2.5 to 2.5	Pass
				-10	3.70	-1.116	-0.0007	-2.5 to 2.5	Pass
				0	3.70	1.359	0.0008	-2.5 to 2.5	Pass
				10	3.70	16.351	0.0096	-2.5 to 2.5	Pass
				30	3.70	14.133	0.0083	-2.5 to 2.5	Pass
				40	3.70	3.419	0.0020	-2.5 to 2.5	Pass
				50	3.70	13.361	0.0078	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.26	-11.516	-0.0066	-2.5 to 2.5	Pass
					3.70	0.629	0.0004	-2.5 to 2.5	Pass
					3.15	-3.290	-0.0019	-2.5 to 2.5	Pass
				-30	3.70	-9.069	-0.0052	-2.5 to 2.5	Pass
				-20	3.70	-7.410	-0.0043	-2.5 to 2.5	Pass
				-10	3.70	9.713	0.0056	-2.5 to 2.5	Pass
				0	3.70	3.891	0.0022	-2.5 to 2.5	Pass
				10	3.70	4.377	0.0025	-2.5 to 2.5	Pass
				30	3.70	11.158	0.0064	-2.5 to 2.5	Pass
				40	3.70	15.635	0.0090	-2.5 to 2.5	Pass
				50	3.70	0.701	0.0004	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.26	3.462	0.0020	-2.5 to 2.5	Pass
					3.70	8.326	0.0047	-2.5 to 2.5	Pass
					3.15	5.550	0.0032	-2.5 to 2.5	Pass
				-30	3.70	12.131	0.0069	-2.5 to 2.5	Pass
				-20	3.70	10.800	0.0062	-2.5 to 2.5	Pass
				-10	3.70	-1.116	-0.0006	-2.5 to 2.5	Pass
				0	3.70	-2.761	-0.0016	-2.5 to 2.5	Pass
				10	3.70	6.337	0.0036	-2.5 to 2.5	Pass
				30	3.70	0.715	0.0004	-2.5 to 2.5	Pass
				40	3.70	5.851	0.0033	-2.5 to 2.5	Pass
				50	3.70	9.027	0.0051	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.26	8.655	0.0051	-2.5 to 2.5	Pass
					3.70	12.832	0.0075	-2.5 to 2.5	Pass
					3.15	11.473	0.0067	-2.5 to 2.5	Pass
				-30	3.70	18.053	0.0106	-2.5 to 2.5	Pass
				-20	3.70	17.910	0.0105	-2.5 to 2.5	Pass
				-10	3.70	2.389	0.0014	-2.5 to 2.5	Pass
				0	3.70	5.236	0.0031	-2.5 to 2.5	Pass
				10	3.70	11.473	0.0067	-2.5 to 2.5	Pass
				30	3.70	15.106	0.0088	-2.5 to 2.5	Pass
				40	3.70	8.268	0.0048	-2.5 to 2.5	Pass
				50	3.70	6.509	0.0038	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.26	14.305	0.0083	-2.5 to 2.5	Pass
					3.70	7.553	0.0044	-2.5 to 2.5	Pass
					3.15	-0.086	0.0000	-2.5 to 2.5	Pass
				-30	3.70	3.748	0.0022	-2.5 to 2.5	Pass
				-20	3.70	2.460	0.0014	-2.5 to 2.5	Pass

				-10	3.70	13.003	0.0075	-2.5 to 2.5	Pass
				0	3.70	0.229	0.0001	-2.5 to 2.5	Pass
				10	3.70	5.407	0.0031	-2.5 to 2.5	Pass
				30	3.70	2.103	0.0012	-2.5 to 2.5	Pass
				40	3.70	2.789	0.0016	-2.5 to 2.5	Pass
				50	3.70	16.494	0.0095	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.26	11.158	0.0064	-2.5 to 2.5	Pass
					3.70	0.143	0.0001	-2.5 to 2.5	Pass
					3.15	13.518	0.0077	-2.5 to 2.5	Pass
				-30	3.70	2.046	0.0012	-2.5 to 2.5	Pass
				-20	3.70	13.475	0.0077	-2.5 to 2.5	Pass
				-10	3.70	-2.618	-0.0015	-2.5 to 2.5	Pass
				0	3.70	1.402	0.0008	-2.5 to 2.5	Pass
				10	3.70	-1.516	-0.0009	-2.5 to 2.5	Pass
				30	3.70	2.532	0.0014	-2.5 to 2.5	Pass
				40	3.70	5.522	0.0031	-2.5 to 2.5	Pass
				50	3.70	5.250	0.0030	-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	3.26	-9.327	-0.0054	-2.5 to 2.5	Pass
					3.70	-5.579	-0.0033	-2.5 to 2.5	Pass
					3.15	-0.043	0.0000	-2.5 to 2.5	Pass
				-30	3.70	6.065	0.0035	-2.5 to 2.5	Pass
				-20	3.70	-6.323	-0.0037	-2.5 to 2.5	Pass
				-10	3.70	-1.559	-0.0009	-2.5 to 2.5	Pass
				0	3.70	3.605	0.0021	-2.5 to 2.5	Pass
				10	3.70	5.565	0.0033	-2.5 to 2.5	Pass
				30	3.70	1.302	0.0008	-2.5 to 2.5	Pass
				40	3.70	-3.047	-0.0018	-2.5 to 2.5	Pass
				50	3.70	5.236	0.0031	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.26	6.909	0.0040	-2.5 to 2.5	Pass
					3.70	10.943	0.0063	-2.5 to 2.5	Pass
					3.15	10.614	0.0061	-2.5 to 2.5	Pass
				-30	3.70	6.480	0.0037	-2.5 to 2.5	Pass
				-20	3.70	2.918	0.0017	-2.5 to 2.5	Pass
				-10	3.70	4.578	0.0026	-2.5 to 2.5	Pass
				0	3.70	8.540	0.0049	-2.5 to 2.5	Pass
				10	3.70	2.375	0.0014	-2.5 to 2.5	Pass
				30	3.70	-0.486	-0.0003	-2.5 to 2.5	Pass
				40	3.70	-2.546	-0.0015	-2.5 to 2.5	Pass
				50	3.70	-13.590	-0.0078	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.26	-1.445	-0.0008	-2.5 to 2.5	Pass
					3.70	5.093	0.0029	-2.5 to 2.5	Pass
					3.15	8.225	0.0047	-2.5 to 2.5	Pass
				-30	3.70	2.189	0.0012	-2.5 to 2.5	Pass
				-20	3.70	-0.157	-0.0001	-2.5 to 2.5	Pass
				-10	3.70	11.659	0.0066	-2.5 to 2.5	Pass
				0	3.70	-0.186	-0.0001	-2.5 to 2.5	Pass
				10	3.70	-0.143	-0.0001	-2.5 to 2.5	Pass
				30	3.70	13.647	0.0078	-2.5 to 2.5	Pass
				40	3.70	12.245	0.0070	-2.5 to 2.5	Pass
				50	3.70	14.062	0.0080	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.26	2.618	0.0015	-2.5 to 2.5	Pass
					3.70	13.576	0.0079	-2.5 to 2.5	Pass

					3.15	1.574	0.0009	-2.5 to 2.5	Pass
				-30	3.70	5.708	0.0033	-2.5 to 2.5	Pass
				-20	3.70	7.839	0.0046	-2.5 to 2.5	Pass
				-10	3.70	8.698	0.0051	-2.5 to 2.5	Pass
				0	3.70	8.998	0.0053	-2.5 to 2.5	Pass
				10	3.70	5.736	0.0034	-2.5 to 2.5	Pass
				30	3.70	7.668	0.0045	-2.5 to 2.5	Pass
				40	3.70	7.181	0.0042	-2.5 to 2.5	Pass
				50	3.70	5.236	0.0031	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.26	5.822	0.0034	-2.5 to 2.5	Pass
					3.70	-4.520	-0.0026	-2.5 to 2.5	Pass
					3.15	3.033	0.0018	-2.5 to 2.5	Pass
				-30	3.70	6.351	0.0037	-2.5 to 2.5	Pass
				-20	3.70	3.119	0.0018	-2.5 to 2.5	Pass
				-10	3.70	6.824	0.0039	-2.5 to 2.5	Pass
				0	3.70	8.025	0.0046	-2.5 to 2.5	Pass
				10	3.70	-1.302	-0.0008	-2.5 to 2.5	Pass
				30	3.70	-8.955	-0.0052	-2.5 to 2.5	Pass
				40	3.70	-3.219	-0.0019	-2.5 to 2.5	Pass
				50	3.70	-2.317	-0.0013	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.26	12.302	0.0070	-2.5 to 2.5	Pass
					3.70	0.443	0.0003	-2.5 to 2.5	Pass
					3.15	4.134	0.0024	-2.5 to 2.5	Pass
				-30	3.70	11.344	0.0065	-2.5 to 2.5	Pass
				-20	3.70	-0.615	-0.0004	-2.5 to 2.5	Pass
				-10	3.70	3.161	0.0018	-2.5 to 2.5	Pass
				0	3.70	4.535	0.0026	-2.5 to 2.5	Pass
				10	3.70	9.313	0.0053	-2.5 to 2.5	Pass
				30	3.70	0.787	0.0004	-2.5 to 2.5	Pass
				40	3.70	1.459	0.0008	-2.5 to 2.5	Pass
				50	3.70	4.821	0.0027	-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	3.26	-0.772	-0.0005	-2.5 to 2.5	Pass
					3.70	1.917	0.0011	-2.5 to 2.5	Pass
					3.15	3.705	0.0022	-2.5 to 2.5	Pass
				-30	3.70	7.768	0.0045	-2.5 to 2.5	Pass
				-20	3.70	1.087	0.0006	-2.5 to 2.5	Pass
				-10	3.70	7.110	0.0042	-2.5 to 2.5	Pass
				0	3.70	7.725	0.0045	-2.5 to 2.5	Pass
				10	3.70	10.686	0.0062	-2.5 to 2.5	Pass
				30	3.70	13.576	0.0079	-2.5 to 2.5	Pass
				40	3.70	8.926	0.0052	-2.5 to 2.5	Pass
				50	3.70	8.111	0.0047	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.26	7.496	0.0043	-2.5 to 2.5	Pass
					3.70	4.206	0.0024	-2.5 to 2.5	Pass
					3.15	4.721	0.0027	-2.5 to 2.5	Pass
				-30	3.70	7.782	0.0045	-2.5 to 2.5	Pass
				-20	3.70	-0.758	-0.0004	-2.5 to 2.5	Pass
				-10	3.70	-3.519	-0.0020	-2.5 to 2.5	Pass
				0	3.70	7.925	0.0046	-2.5 to 2.5	Pass
				10	3.70	2.117	0.0012	-2.5 to 2.5	Pass
				30	3.70	7.339	0.0042	-2.5 to 2.5	Pass
				40	3.70	-1.674	-0.0010	-2.5 to 2.5	Pass

	1752.5	25	0	50	3.70	-0.830	-0.0005	-2.5 to 2.5	Pass
				20	3.26	-7.052	-0.0040	-2.5 to 2.5	Pass
					3.70	0.443	0.0003	-2.5 to 2.5	Pass
					3.15	-3.977	-0.0023	-2.5 to 2.5	Pass
				-30	3.70	-3.805	-0.0022	-2.5 to 2.5	Pass
				-20	3.70	0.772	0.0004	-2.5 to 2.5	Pass
				-10	3.70	-2.933	-0.0017	-2.5 to 2.5	Pass
				0	3.70	5.436	0.0031	-2.5 to 2.5	Pass
				10	3.70	5.751	0.0033	-2.5 to 2.5	Pass
				30	3.70	0.386	0.0002	-2.5 to 2.5	Pass
				40	3.70	2.017	0.0012	-2.5 to 2.5	Pass
				50	3.70	-0.987	-0.0006	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.26	11.573	0.0068	-2.5 to 2.5	Pass
					3.70	6.080	0.0036	-2.5 to 2.5	Pass
					3.15	1.631	0.0010	-2.5 to 2.5	Pass
				-30	3.70	7.339	0.0043	-2.5 to 2.5	Pass
				-20	3.70	4.535	0.0026	-2.5 to 2.5	Pass
				-10	3.70	4.506	0.0026	-2.5 to 2.5	Pass
				0	3.70	6.838	0.0040	-2.5 to 2.5	Pass
				10	3.70	1.903	0.0011	-2.5 to 2.5	Pass
				30	3.70	-2.546	-0.0015	-2.5 to 2.5	Pass
				40	3.70	5.093	0.0030	-2.5 to 2.5	Pass
				50	3.70	8.669	0.0051	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.26	-0.329	-0.0002	-2.5 to 2.5	Pass
					3.70	3.376	0.0019	-2.5 to 2.5	Pass
					3.15	4.764	0.0027	-2.5 to 2.5	Pass
				-30	3.70	3.433	0.0020	-2.5 to 2.5	Pass
				-20	3.70	2.189	0.0013	-2.5 to 2.5	Pass
				-10	3.70	-2.503	-0.0014	-2.5 to 2.5	Pass
				0	3.70	9.270	0.0054	-2.5 to 2.5	Pass
				10	3.70	-0.973	-0.0006	-2.5 to 2.5	Pass
				30	3.70	14.105	0.0081	-2.5 to 2.5	Pass
				40	3.70	11.973	0.0069	-2.5 to 2.5	Pass
				50	3.70	8.311	0.0048	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.26	0.458	0.0003	-2.5 to 2.5	Pass
					3.70	-0.229	-0.0001	-2.5 to 2.5	Pass
					3.15	-4.907	-0.0028	-2.5 to 2.5	Pass
				-30	3.70	7.324	0.0042	-2.5 to 2.5	Pass
				-20	3.70	9.413	0.0054	-2.5 to 2.5	Pass
				-10	3.70	-3.648	-0.0021	-2.5 to 2.5	Pass
				0	3.70	1.602	0.0009	-2.5 to 2.5	Pass
				10	3.70	3.262	0.0019	-2.5 to 2.5	Pass
				30	3.70	1.616	0.0009	-2.5 to 2.5	Pass
				40	3.70	1.559	0.0009	-2.5 to 2.5	Pass
				50	3.70	-1.559	-0.0009	-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	3.26	-4.249	-0.0025	-2.5 to 2.5	Pass
					3.70	1.159	0.0007	-2.5 to 2.5	Pass
					3.15	2.360	0.0014	-2.5 to 2.5	Pass
				-30	3.70	0.200	0.0001	-2.5 to 2.5	Pass
				-20	3.70	0.572	0.0003	-2.5 to 2.5	Pass
				-10	3.70	-0.300	-0.0002	-2.5 to 2.5	Pass
				0	3.70	0.129	0.0001	-2.5 to 2.5	Pass

				10	3.70	-0.057	0.0000	-2.5 to 2.5	Pass
				30	3.70	4.578	0.0027	-2.5 to 2.5	Pass
				40	3.70	1.631	0.0010	-2.5 to 2.5	Pass
				50	3.70	6.108	0.0036	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.26	5.851	0.0034	-2.5 to 2.5	Pass
					3.70	5.894	0.0034	-2.5 to 2.5	Pass
					3.15	3.519	0.0020	-2.5 to 2.5	Pass
				-30	3.70	3.576	0.0021	-2.5 to 2.5	Pass
				-20	3.70	3.433	0.0020	-2.5 to 2.5	Pass
				-10	3.70	4.177	0.0024	-2.5 to 2.5	Pass
				0	3.70	3.104	0.0018	-2.5 to 2.5	Pass
				10	3.70	3.777	0.0022	-2.5 to 2.5	Pass
				30	3.70	3.405	0.0020	-2.5 to 2.5	Pass
				40	3.70	0.772	0.0004	-2.5 to 2.5	Pass
				50	3.70	-0.372	-0.0002	-2.5 to 2.5	Pass
	1750	50	0	20	3.26	4.048	0.0023	-2.5 to 2.5	Pass
					3.70	3.705	0.0021	-2.5 to 2.5	Pass
					3.15	3.576	0.0020	-2.5 to 2.5	Pass
				-30	3.70	-0.443	-0.0003	-2.5 to 2.5	Pass
				-20	3.70	1.316	0.0008	-2.5 to 2.5	Pass
				-10	3.70	4.578	0.0026	-2.5 to 2.5	Pass
				0	3.70	-2.332	-0.0013	-2.5 to 2.5	Pass
				10	3.70	4.992	0.0029	-2.5 to 2.5	Pass
				30	3.70	3.848	0.0022	-2.5 to 2.5	Pass
				40	3.70	3.548	0.0020	-2.5 to 2.5	Pass
				50	3.70	4.177	0.0024	-2.5 to 2.5	Pass
16QAM	1715	27	0	20	3.26	4.492	0.0026	-2.5 to 2.5	Pass
					3.70	7.596	0.0044	-2.5 to 2.5	Pass
					3.15	6.166	0.0036	-2.5 to 2.5	Pass
				-30	3.70	7.224	0.0042	-2.5 to 2.5	Pass
				-20	3.70	7.281	0.0042	-2.5 to 2.5	Pass
				-10	3.70	3.591	0.0021	-2.5 to 2.5	Pass
				0	3.70	4.606	0.0027	-2.5 to 2.5	Pass
				10	3.70	-0.329	-0.0002	-2.5 to 2.5	Pass
				30	3.70	2.303	0.0013	-2.5 to 2.5	Pass
				40	3.70	0.200	0.0001	-2.5 to 2.5	Pass
				50	3.70	-5.107	-0.0030	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.26	5.093	0.0029	-2.5 to 2.5	Pass
					3.70	8.411	0.0049	-2.5 to 2.5	Pass
					3.15	-0.572	-0.0003	-2.5 to 2.5	Pass
				-30	3.70	3.262	0.0019	-2.5 to 2.5	Pass
				-20	3.70	6.051	0.0035	-2.5 to 2.5	Pass
				-10	3.70	5.794	0.0033	-2.5 to 2.5	Pass
				0	3.70	2.789	0.0016	-2.5 to 2.5	Pass
				10	3.70	3.290	0.0019	-2.5 to 2.5	Pass
				30	3.70	3.848	0.0022	-2.5 to 2.5	Pass
				40	3.70	3.104	0.0018	-2.5 to 2.5	Pass
				50	3.70	8.183	0.0047	-2.5 to 2.5	Pass
	1750	27	23	20	3.26	10.214	0.0058	-2.5 to 2.5	Pass
					3.70	1.073	0.0006	-2.5 to 2.5	Pass
					3.15	5.794	0.0033	-2.5 to 2.5	Pass
				-30	3.70	-10.085	-0.0058	-2.5 to 2.5	Pass
				-20	3.70	1.745	0.0010	-2.5 to 2.5	Pass
				-10	3.70	2.589	0.0015	-2.5 to 2.5	Pass
				0	3.70	2.017	0.0012	-2.5 to 2.5	Pass
				10	3.70	2.346	0.0013	-2.5 to 2.5	Pass
				30	3.70	1.931	0.0011	-2.5 to 2.5	Pass
				40	3.70	1.345	0.0008	-2.5 to 2.5	Pass
				50	3.70	1.373	0.0008	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.26	-0.587	-0.0003	-2.5 to 2.5	Pass
					3.70	1.044	0.0006	-2.5 to 2.5	Pass
					3.15	0.401	0.0002	-2.5 to 2.5	Pass
				-30	3.70	3.219	0.0019	-2.5 to 2.5	Pass
				-20	3.70	0.629	0.0004	-2.5 to 2.5	Pass
				-10	3.70	1.602	0.0009	-2.5 to 2.5	Pass
				0	3.70	-0.458	-0.0003	-2.5 to 2.5	Pass
				10	3.70	1.903	0.0011	-2.5 to 2.5	Pass
				30	3.70	0.215	0.0001	-2.5 to 2.5	Pass
				40	3.70	-1.101	-0.0006	-2.5 to 2.5	Pass
				50	3.70	3.719	0.0022	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.26	1.559	0.0009	-2.5 to 2.5	Pass
					3.70	-0.186	-0.0001	-2.5 to 2.5	Pass
					3.15	1.531	0.0009	-2.5 to 2.5	Pass
				-30	3.70	0.930	0.0005	-2.5 to 2.5	Pass
				-20	3.70	0.558	0.0003	-2.5 to 2.5	Pass
				-10	3.70	5.293	0.0031	-2.5 to 2.5	Pass
				0	3.70	-5.450	-0.0031	-2.5 to 2.5	Pass
				10	3.70	-0.730	-0.0004	-2.5 to 2.5	Pass
				30	3.70	1.459	0.0008	-2.5 to 2.5	Pass
				40	3.70	0.300	0.0002	-2.5 to 2.5	Pass
				50	3.70	-1.059	-0.0006	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.26	0.186	0.0001	-2.5 to 2.5	Pass
					3.70	0.057	0.0000	-2.5 to 2.5	Pass
					3.15	0.672	0.0004	-2.5 to 2.5	Pass
				-30	3.70	0.887	0.0005	-2.5 to 2.5	Pass
				-20	3.70	4.563	0.0026	-2.5 to 2.5	Pass
				-10	3.70	1.745	0.0010	-2.5 to 2.5	Pass
				0	3.70	3.247	0.0019	-2.5 to 2.5	Pass
				10	3.70	2.832	0.0016	-2.5 to 2.5	Pass
				30	3.70	0.744	0.0004	-2.5 to 2.5	Pass
				40	3.70	4.735	0.0027	-2.5 to 2.5	Pass
				50	3.70	1.502	0.0009	-2.5 to 2.5	Pass
16QAM	1717.5	27	0	20	3.26	1.945	0.0011	-2.5 to 2.5	Pass
					3.70	3.233	0.0019	-2.5 to 2.5	Pass
					3.15	2.933	0.0017	-2.5 to 2.5	Pass
				-30	3.70	5.121	0.0030	-2.5 to 2.5	Pass
				-20	3.70	8.168	0.0048	-2.5 to 2.5	Pass
				-10	3.70	2.403	0.0014	-2.5 to 2.5	Pass
				0	3.70	4.320	0.0025	-2.5 to 2.5	Pass
				10	3.70	8.111	0.0047	-2.5 to 2.5	Pass
				30	3.70	4.163	0.0024	-2.5 to 2.5	Pass
				40	3.70	2.346	0.0014	-2.5 to 2.5	Pass
				50	3.70	2.475	0.0014	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.26	-1.602	-0.0009	-2.5 to 2.5	Pass
					3.70	-0.658	-0.0004	-2.5 to 2.5	Pass
					3.15	0.858	0.0005	-2.5 to 2.5	Pass
				-30	3.70	-3.762	-0.0022	-2.5 to 2.5	Pass
				-20	3.70	-1.674	-0.0010	-2.5 to 2.5	Pass
				-10	3.70	-0.958	-0.0006	-2.5 to 2.5	Pass
				0	3.70	-2.904	-0.0017	-2.5 to 2.5	Pass
				10	3.70	-1.473	-0.0009	-2.5 to 2.5	Pass

				30	3.70	-3.033	-0.0018	-2.5 to 2.5	Pass
				40	3.70	1.245	0.0007	-2.5 to 2.5	Pass
				50	3.70	3.319	0.0019	-2.5 to 2.5	Pass
	1747.5	27	48	20	3.26	2.174	0.0012	-2.5 to 2.5	Pass
					3.70	6.437	0.0037	-2.5 to 2.5	Pass
					3.15	-7.696	-0.0044	-2.5 to 2.5	Pass
				-30	3.70	6.995	0.0040	-2.5 to 2.5	Pass
				-20	3.70	12.360	0.0071	-2.5 to 2.5	Pass
				-10	3.70	8.082	0.0046	-2.5 to 2.5	Pass
				0	3.70	8.211	0.0047	-2.5 to 2.5	Pass
				10	3.70	9.885	0.0057	-2.5 to 2.5	Pass
				30	3.70	5.136	0.0029	-2.5 to 2.5	Pass
				40	3.70	7.739	0.0044	-2.5 to 2.5	Pass
				50	3.70	10.114	0.0058	-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	3.26	0.415	0.0002	-2.5 to 2.5	Pass
					3.70	1.202	0.0007	-2.5 to 2.5	Pass
					3.15	1.760	0.0010	-2.5 to 2.5	Pass
				-30	3.70	0.644	0.0004	-2.5 to 2.5	Pass
				-20	3.70	3.233	0.0019	-2.5 to 2.5	Pass
				-10	3.70	0.114	0.0001	-2.5 to 2.5	Pass
				0	3.70	3.462	0.0020	-2.5 to 2.5	Pass
				10	3.70	-4.835	-0.0028	-2.5 to 2.5	Pass
				30	3.70	3.190	0.0019	-2.5 to 2.5	Pass
				40	3.70	2.618	0.0015	-2.5 to 2.5	Pass
				50	3.70	0.629	0.0004	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.26	-2.160	-0.0012	-2.5 to 2.5	Pass
					3.70	2.260	0.0013	-2.5 to 2.5	Pass
					3.15	3.848	0.0022	-2.5 to 2.5	Pass
				-30	3.70	3.333	0.0019	-2.5 to 2.5	Pass
				-20	3.70	-0.944	-0.0005	-2.5 to 2.5	Pass
				-10	3.70	4.134	0.0024	-2.5 to 2.5	Pass
				0	3.70	0.930	0.0005	-2.5 to 2.5	Pass
				10	3.70	-1.059	-0.0006	-2.5 to 2.5	Pass
				30	3.70	-0.558	-0.0003	-2.5 to 2.5	Pass
				40	3.70	3.791	0.0022	-2.5 to 2.5	Pass
				50	3.70	-2.360	-0.0014	-2.5 to 2.5	Pass
	1745	100	0	20	3.26	5.951	0.0034	-2.5 to 2.5	Pass
					3.70	2.489	0.0014	-2.5 to 2.5	Pass
					3.15	6.881	0.0039	-2.5 to 2.5	Pass
				-30	3.70	6.523	0.0037	-2.5 to 2.5	Pass
				-20	3.70	5.608	0.0032	-2.5 to 2.5	Pass
				-10	3.70	6.080	0.0035	-2.5 to 2.5	Pass
				0	3.70	3.576	0.0020	-2.5 to 2.5	Pass
				10	3.70	3.991	0.0023	-2.5 to 2.5	Pass
				30	3.70	3.834	0.0022	-2.5 to 2.5	Pass
				40	3.70	4.435	0.0025	-2.5 to 2.5	Pass
				50	3.70	4.535	0.0026	-2.5 to 2.5	Pass
16QAM	1720	27	0	20	3.26	0.429	0.0002	-2.5 to 2.5	Pass
					3.70	-0.815	-0.0005	-2.5 to 2.5	Pass
					3.15	0.243	0.0001	-2.5 to 2.5	Pass
				-30	3.70	1.388	0.0008	-2.5 to 2.5	Pass
				-20	3.70	-4.849	-0.0028	-2.5 to 2.5	Pass

				-10	3.70	1.531	0.0009	-2.5 to 2.5	Pass
				0	3.70	-2.832	-0.0016	-2.5 to 2.5	Pass
				10	3.70	4.406	0.0026	-2.5 to 2.5	Pass
				30	3.70	4.063	0.0024	-2.5 to 2.5	Pass
				40	3.70	2.961	0.0017	-2.5 to 2.5	Pass
				50	3.70	2.489	0.0014	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.26	3.591	0.0021	-2.5 to 2.5	Pass
					3.70	0.100	0.0001	-2.5 to 2.5	Pass
					3.15	0.558	0.0003	-2.5 to 2.5	Pass
				-30	3.70	2.503	0.0014	-2.5 to 2.5	Pass
				-20	3.70	-3.376	-0.0019	-2.5 to 2.5	Pass
				-10	3.70	-0.501	-0.0003	-2.5 to 2.5	Pass
				0	3.70	2.561	0.0015	-2.5 to 2.5	Pass
				10	3.70	4.277	0.0025	-2.5 to 2.5	Pass
				30	3.70	2.246	0.0013	-2.5 to 2.5	Pass
				40	3.70	6.051	0.0035	-2.5 to 2.5	Pass
				50	3.70	-0.815	-0.0005	-2.5 to 2.5	Pass
	1745	27	73	20	3.26	4.077	0.0023	-2.5 to 2.5	Pass
					3.70	6.480	0.0037	-2.5 to 2.5	Pass
					3.15	0.544	0.0003	-2.5 to 2.5	Pass
				-30	3.70	2.990	0.0017	-2.5 to 2.5	Pass
				-20	3.70	-0.587	-0.0003	-2.5 to 2.5	Pass
				-10	3.70	2.718	0.0016	-2.5 to 2.5	Pass
				0	3.70	6.580	0.0038	-2.5 to 2.5	Pass
				10	3.70	2.303	0.0013	-2.5 to 2.5	Pass
				30	3.70	1.817	0.0010	-2.5 to 2.5	Pass
				40	3.70	4.635	0.0027	-2.5 to 2.5	Pass
				50	3.70	5.064	0.0029	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

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

3.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTV						
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 / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	50	0	Refer To Test Graph	Pass
16QAM	1732.5	27	0	Refer To Test Graph	Pass

3.1.5 B4_15MHz

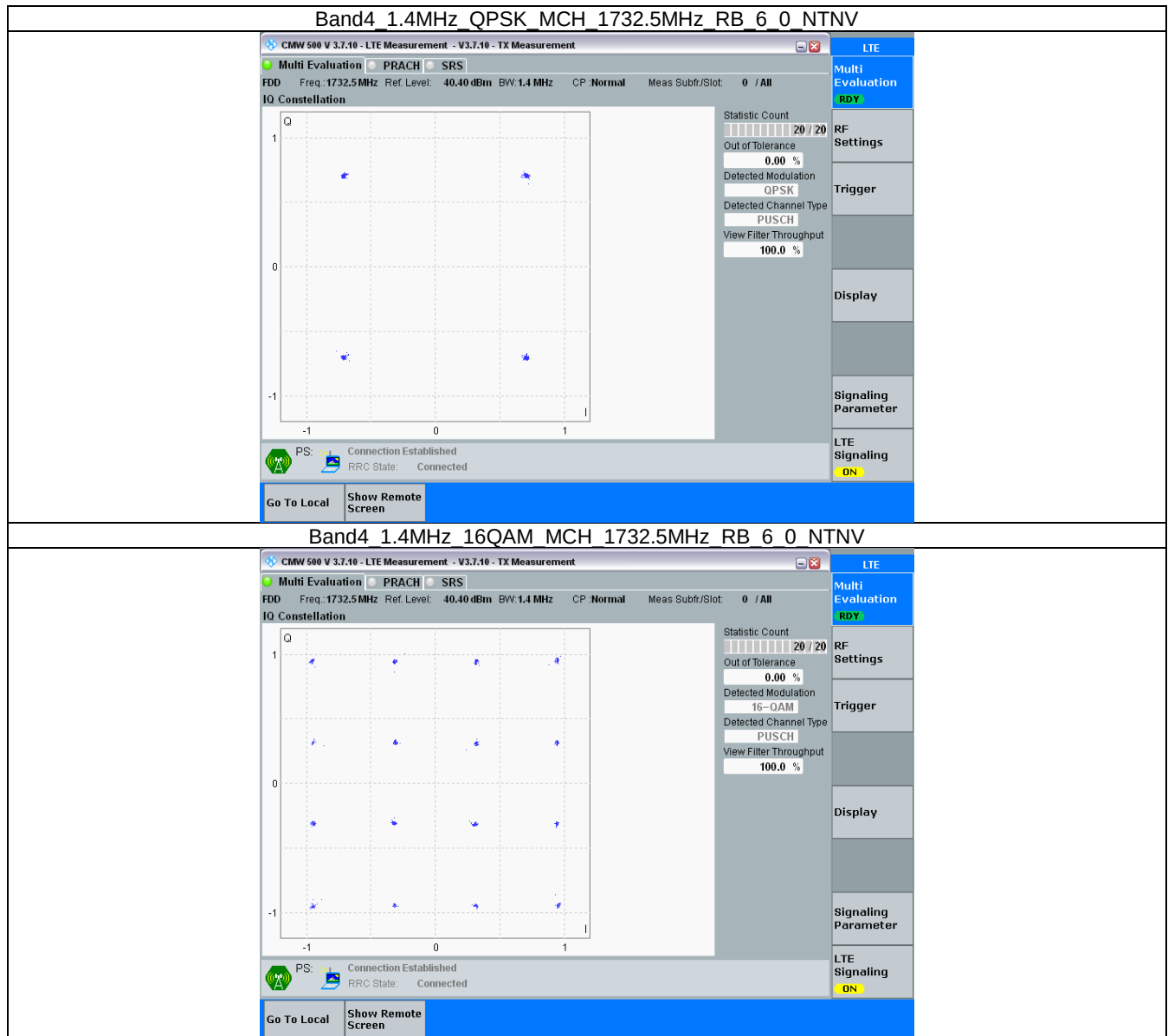
Band: 4 / Bandwidth: 15MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	75	0	Refer To Test Graph	Pass
16QAM	1732.5	27	0	Refer To Test Graph	Pass

3.1.6 B4_20MHz

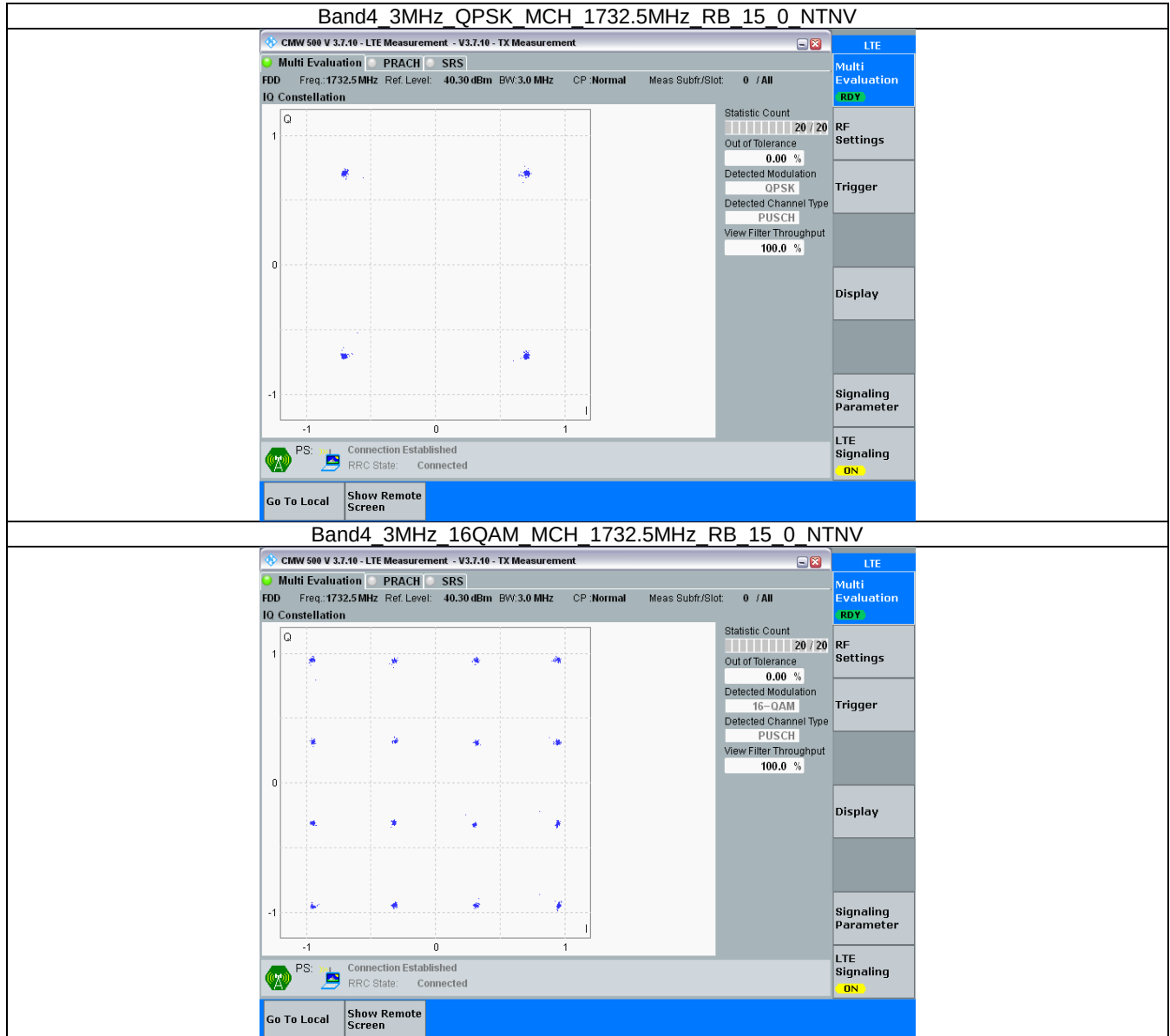
Band: 4 / Bandwidth: 20MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	100	0	Refer To Test Graph	Pass
16QAM	1732.5	27	0	Refer To Test Graph	Pass

3.2 Test Graph

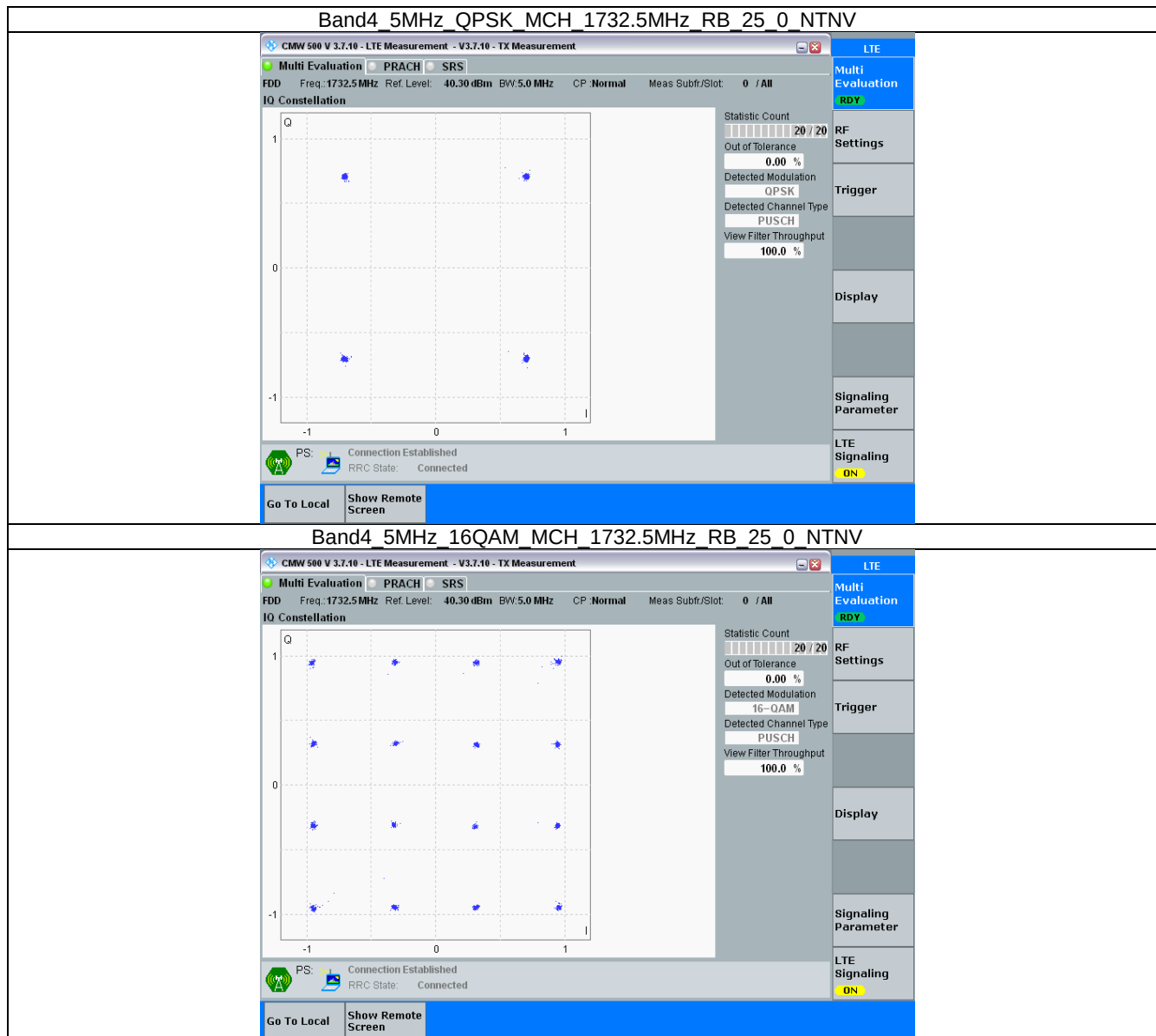
3.2.1 B4_1.4MHz



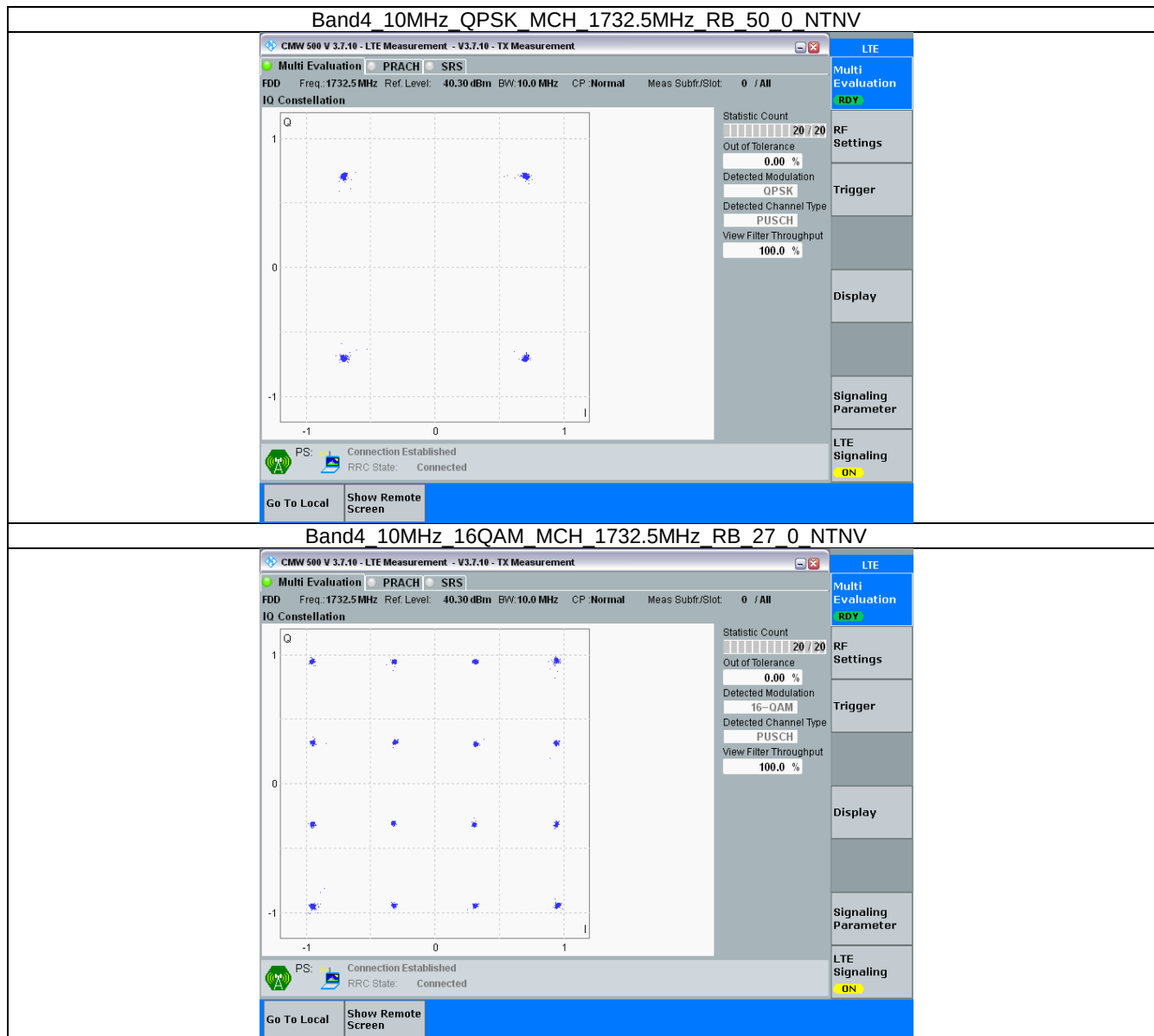
3.2.2 B4_3MHz



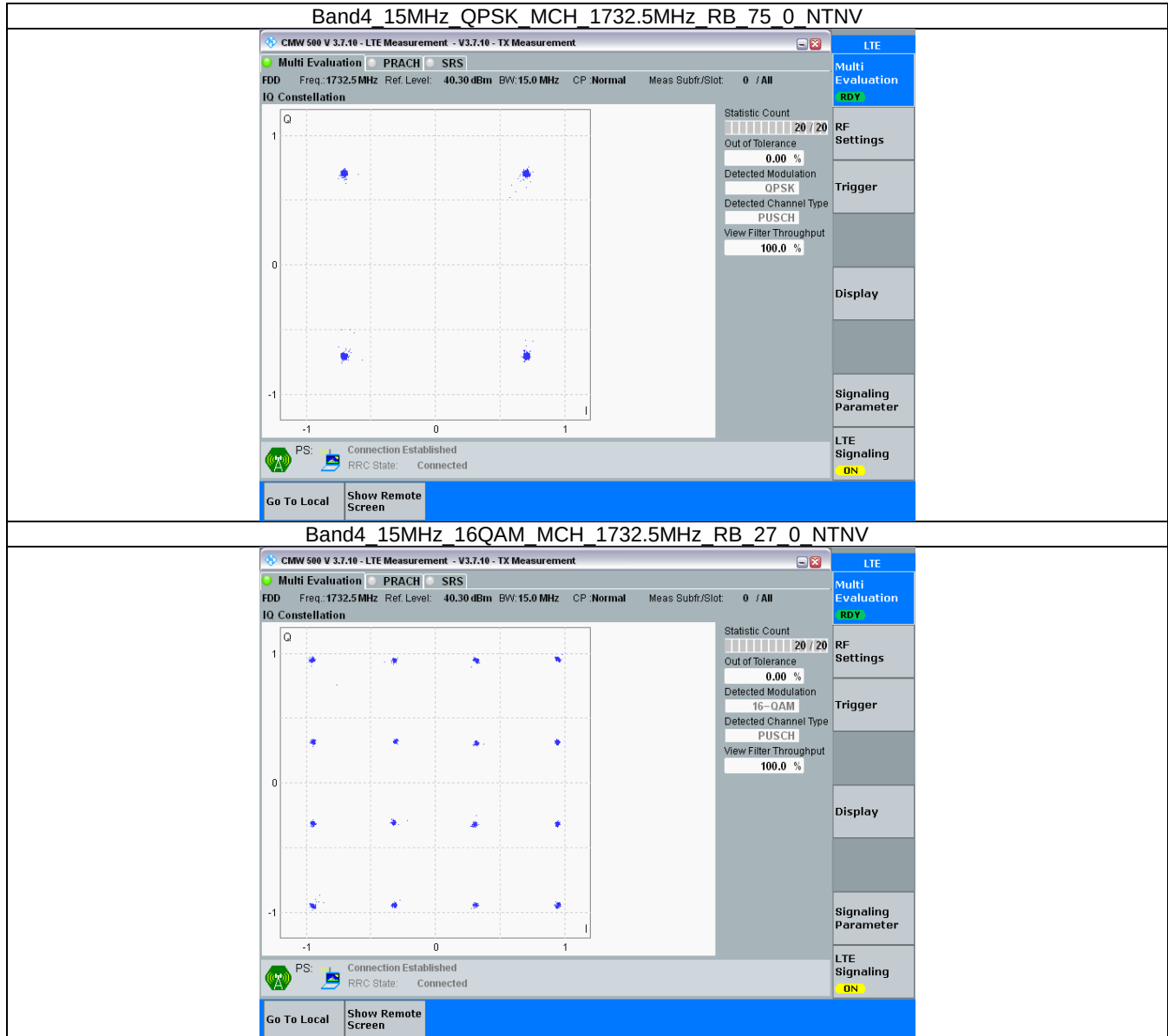
3.2.3 B4_5MHz



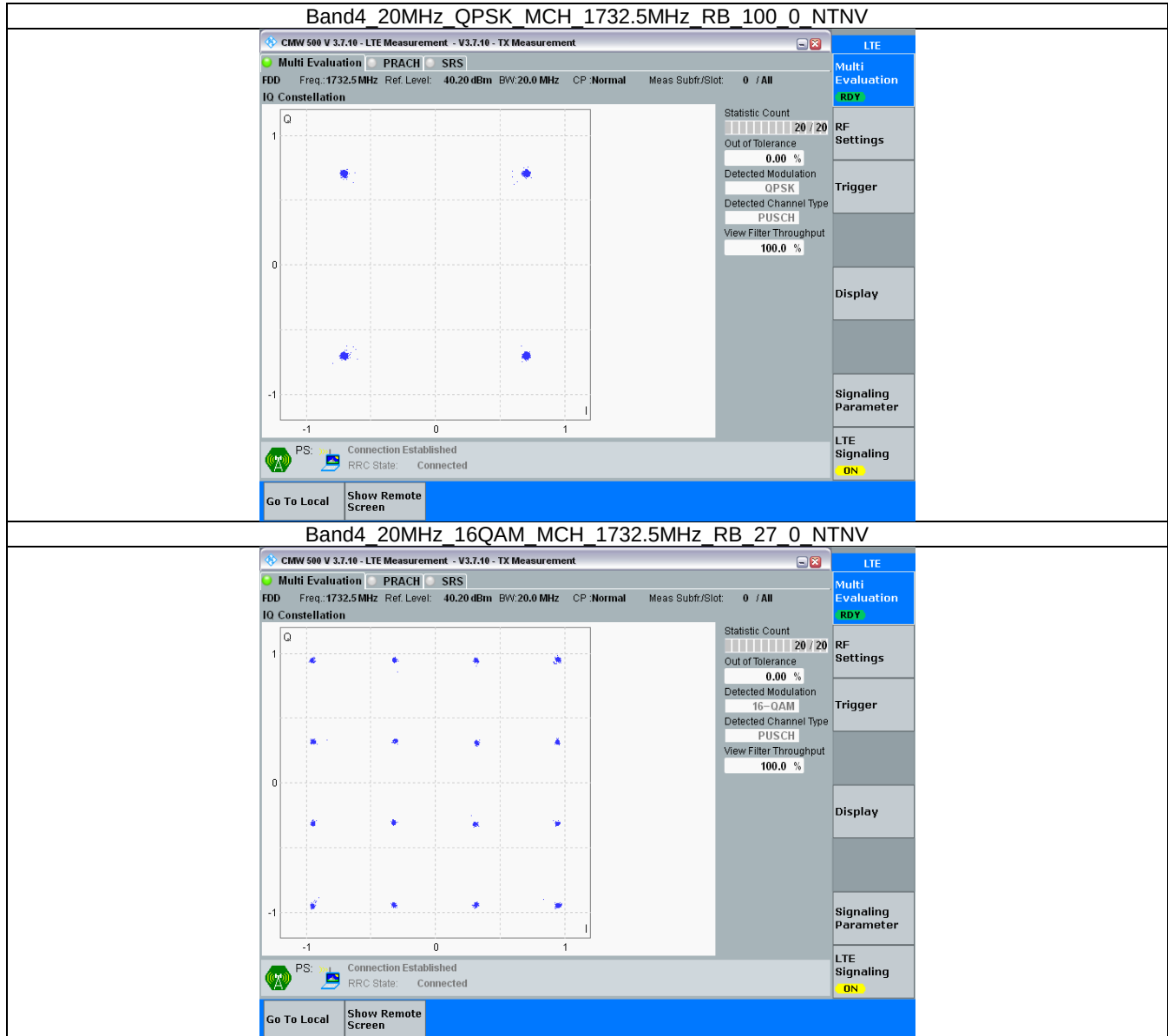
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.091	/	Pass
		1732.5	6	0	1.085	/	Pass
		1754.3	6	0	1.080	/	Pass
	16QAM	1710.7	6	0	1.087	/	Pass
		1732.5	6	0	1.083	/	Pass
		1754.3	6	0	1.091	/	Pass
3	QPSK	1711.5	15	0	2.684	/	Pass
		1732.5	15	0	2.683	/	Pass
		1753.5	15	0	2.682	/	Pass
	16QAM	1711.5	15	0	2.677	/	Pass
		1732.5	15	0	2.686	/	Pass
		1753.5	15	0	2.678	/	Pass
5	QPSK	1712.5	25	0	4.505	/	Pass
		1732.5	25	0	4.513	/	Pass
		1752.5	25	0	4.515	/	Pass
	16QAM	1712.5	25	0	4.530	/	Pass
		1732.5	25	0	4.519	/	Pass
		1752.5	25	0	4.510	/	Pass
10	QPSK	1715	50	0	8.960	/	Pass
		1732.5	50	0	8.957	/	Pass
		1750	50	0	8.966	/	Pass
	16QAM	1715	27	0	4.907	/	Pass
		1732.5	27	0	4.883	/	Pass
		1750	27	23	4.912	/	Pass
15	QPSK	1717.5	75	0	13.433	/	Pass
		1732.5	75	0	13.428	/	Pass
		1747.5	75	0	13.435	/	Pass
	16QAM	1717.5	27	0	4.926	/	Pass
		1732.5	27	0	4.909	/	Pass
		1747.5	27	48	4.905	/	Pass
20	QPSK	1720	100	0	17.846	/	Pass
		1732.5	100	0	17.848	/	Pass
		1745	100	0	17.883	/	Pass
	16QAM	1720	27	0	4.927	/	Pass
		1732.5	27	0	4.906	/	Pass
		1745	27	73	4.910	/	Pass

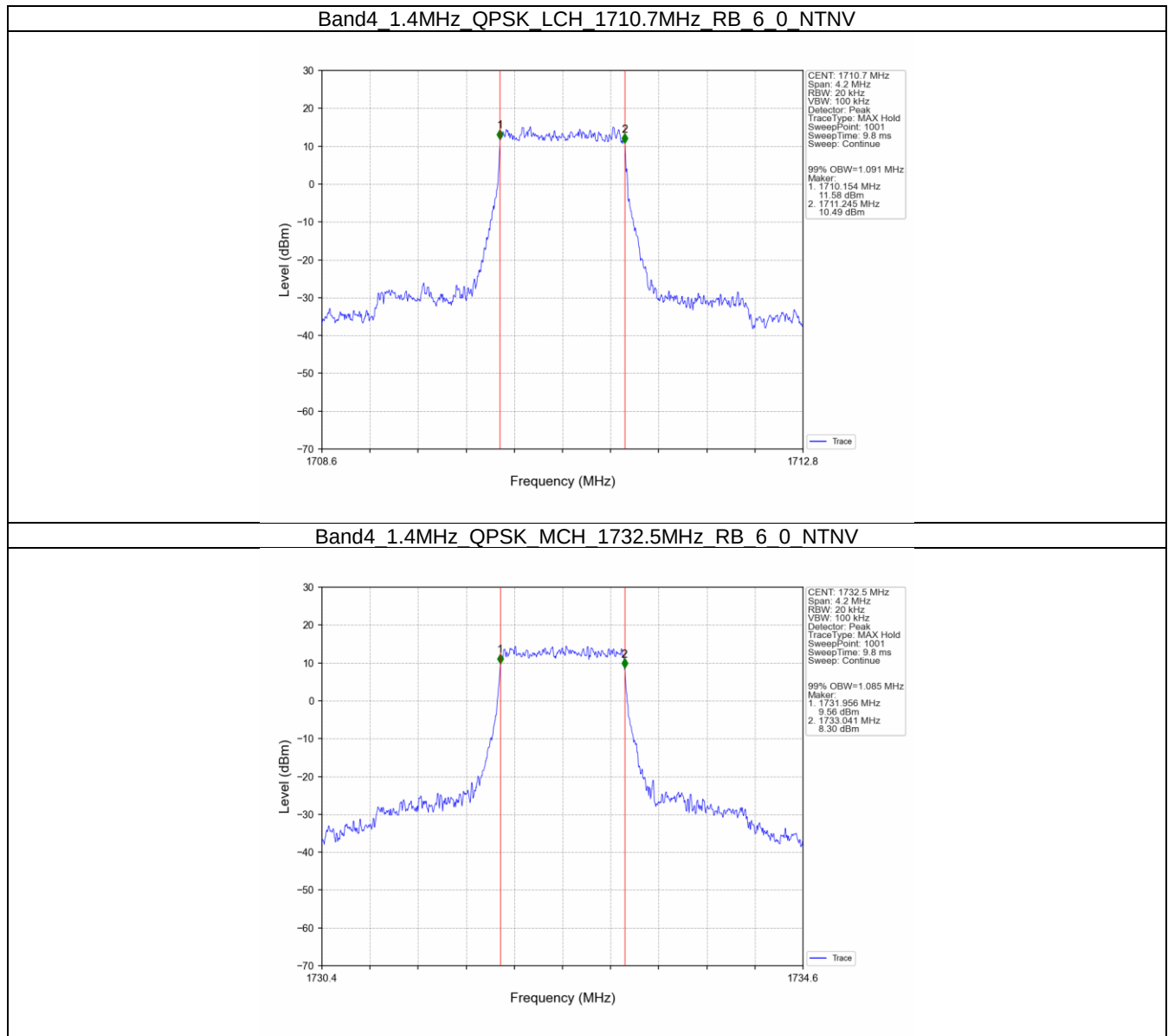
4.1.2 Band4_XDB

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.252	/	Pass
		1732.5	6	0	1.282	/	Pass
		1754.3	6	0	1.248	/	Pass

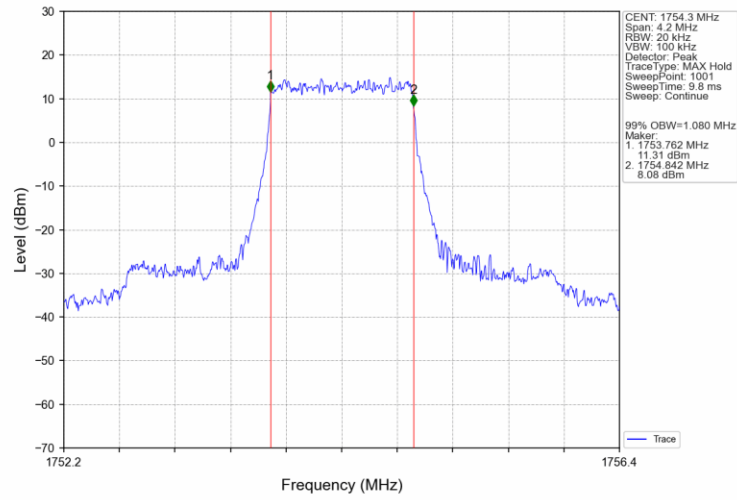
	16QAM	1710.7	6	0	1.265	/	Pass
		1732.5	6	0	1.249	/	Pass
		1754.3	6	0	1.289	/	Pass
3	QPSK	1711.5	15	0	2.888	/	Pass
		1732.5	15	0	2.894	/	Pass
		1753.5	15	0	2.873	/	Pass
	16QAM	1711.5	15	0	2.893	/	Pass
		1732.5	15	0	2.911	/	Pass
		1753.5	15	0	2.903	/	Pass
5	QPSK	1712.5	25	0	4.929	/	Pass
		1732.5	25	0	4.942	/	Pass
		1752.5	25	0	4.990	/	Pass
	16QAM	1712.5	25	0	5.015	/	Pass
		1732.5	25	0	4.982	/	Pass
		1752.5	25	0	4.936	/	Pass
10	QPSK	1715	50	0	9.676	/	Pass
		1732.5	50	0	9.634	/	Pass
		1750	50	0	9.625	/	Pass
	16QAM	1715	27	0	5.736	/	Pass
		1732.5	27	0	5.689	/	Pass
		1750	27	23	5.610	/	Pass
15	QPSK	1717.5	75	0	14.511	/	Pass
		1732.5	75	0	14.372	/	Pass
		1747.5	75	0	14.363	/	Pass
	16QAM	1717.5	27	0	5.836	/	Pass
		1732.5	27	0	5.723	/	Pass
		1747.5	27	48	5.804	/	Pass
20	QPSK	1720	100	0	19.120	/	Pass
		1732.5	100	0	19.075	/	Pass
		1745	100	0	19.083	/	Pass
	16QAM	1720	27	0	5.847	/	Pass
		1732.5	27	0	5.870	/	Pass
		1745	27	73	5.921	/	Pass

4.2 Test Graph

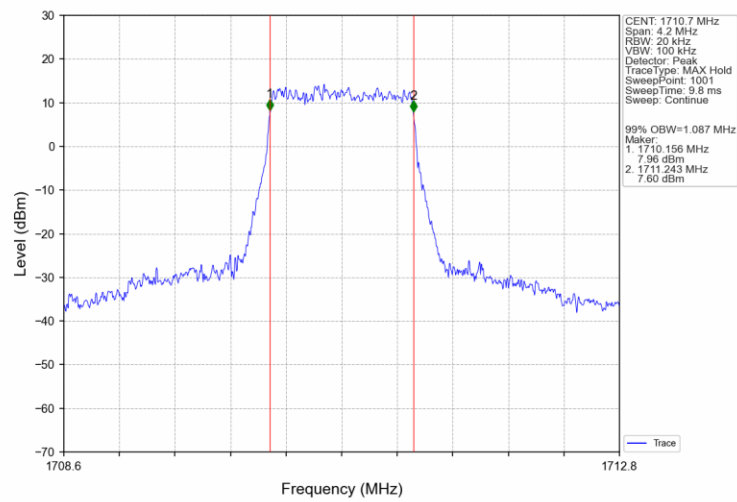
4.2.1 Band4_OBW



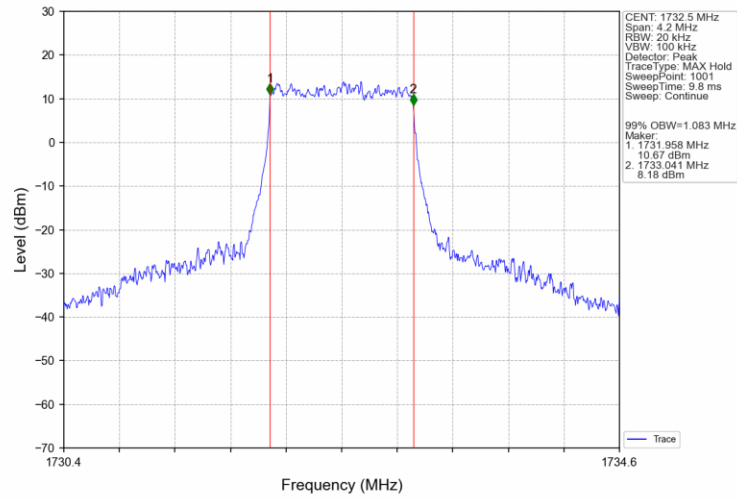
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



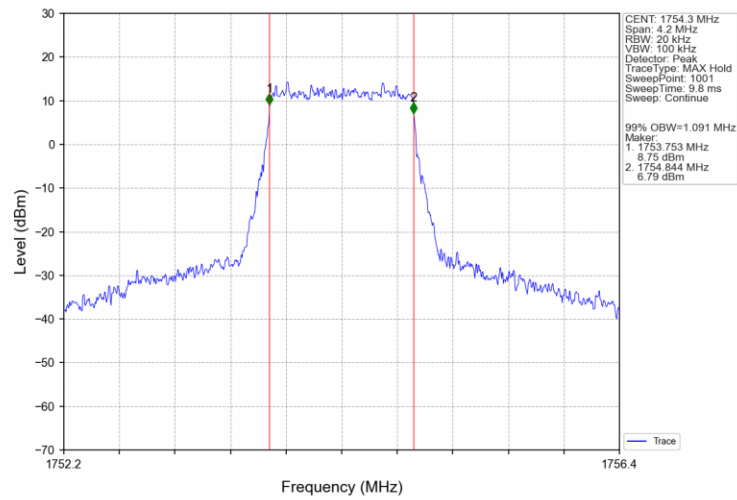
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



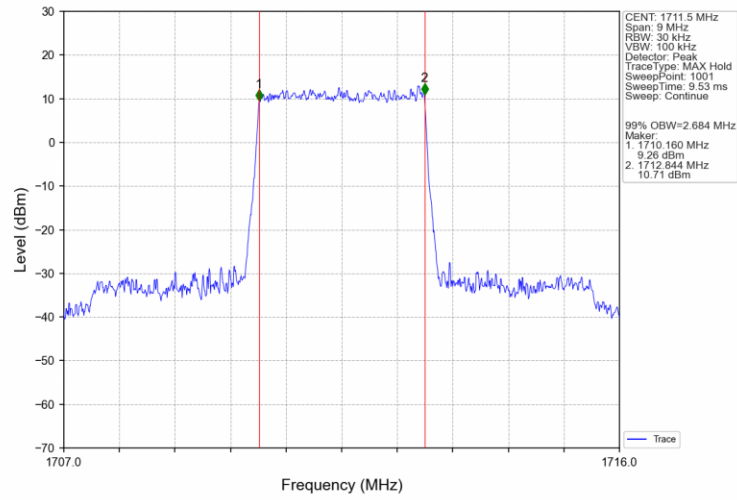
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



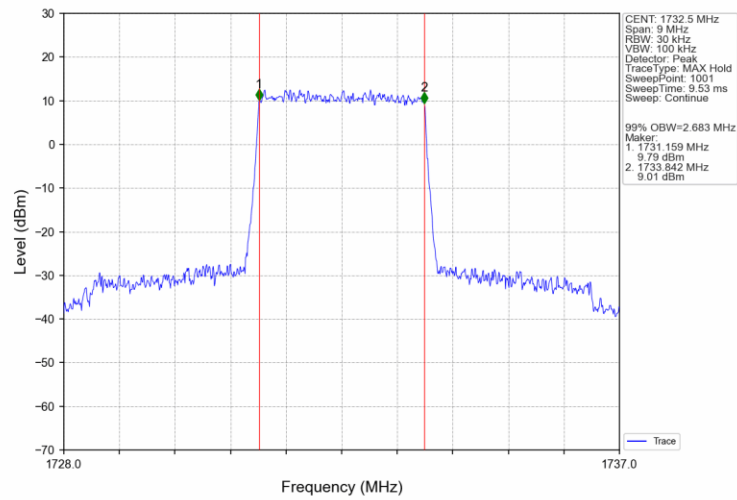
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



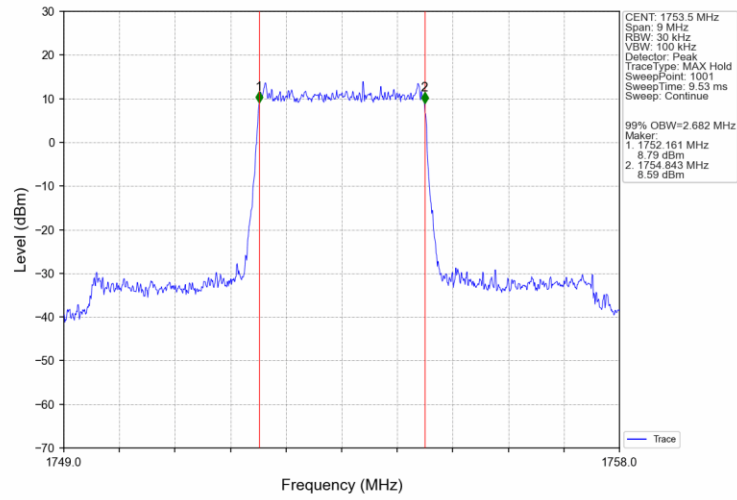
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



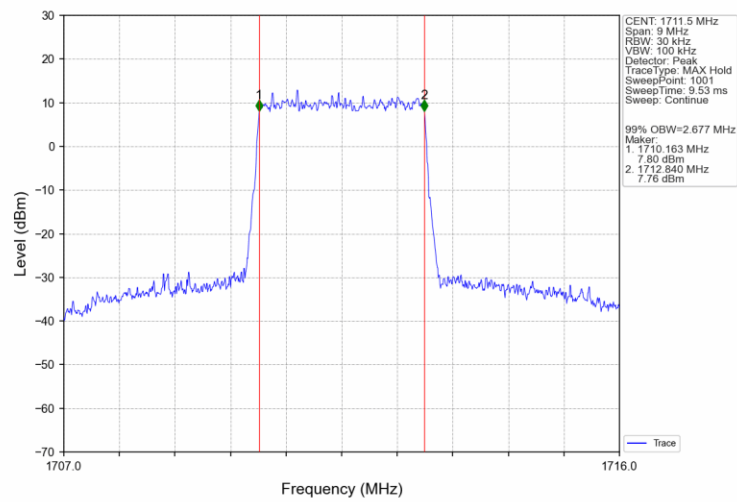
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



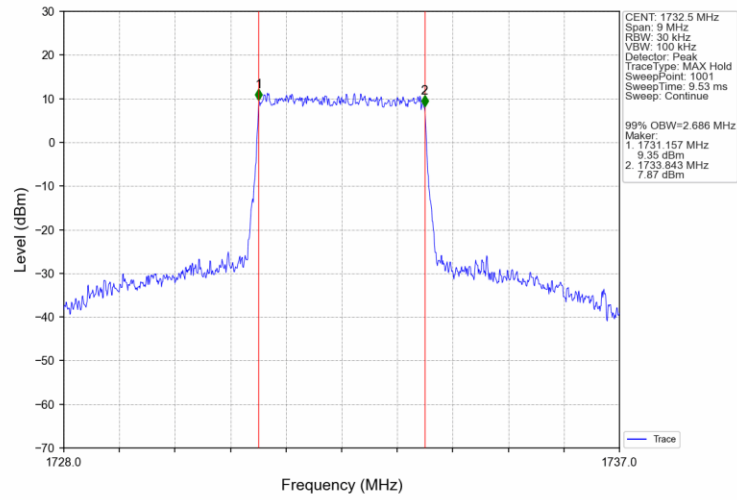
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



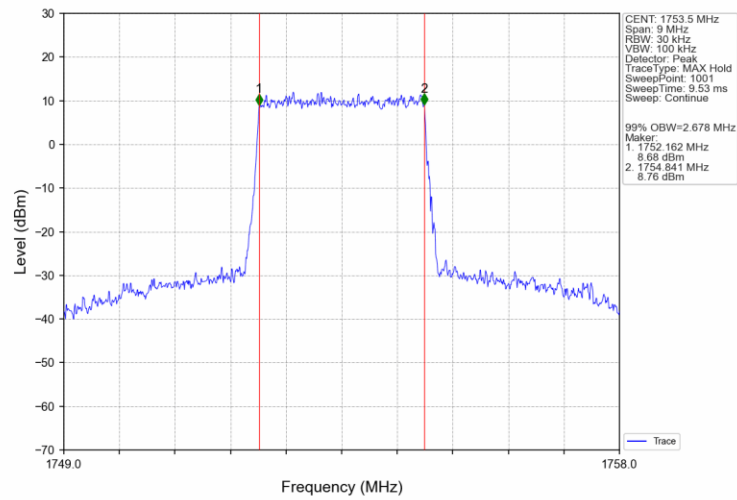
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



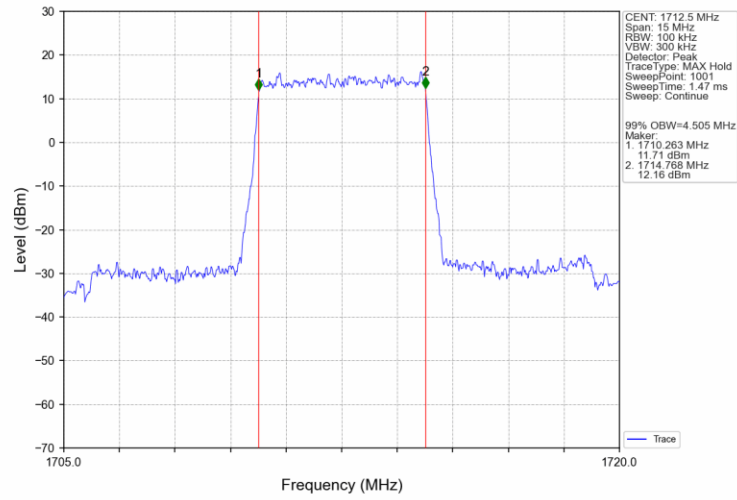
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



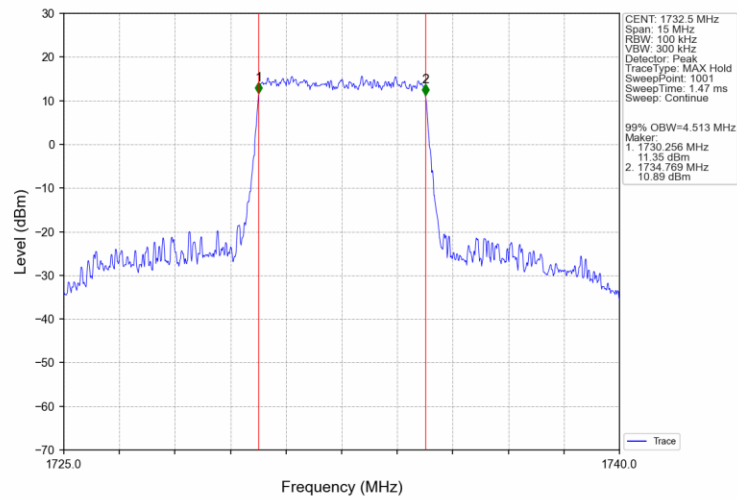
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



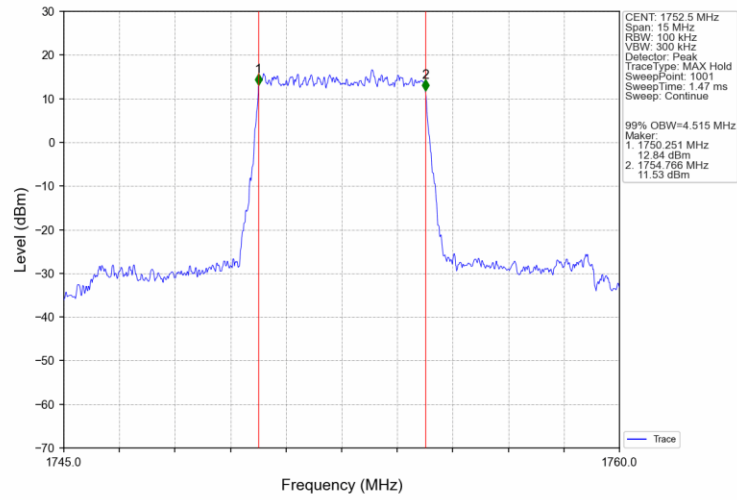
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



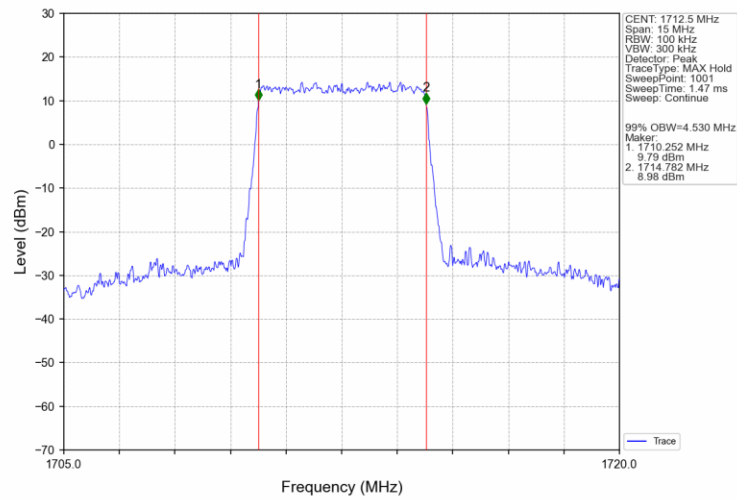
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



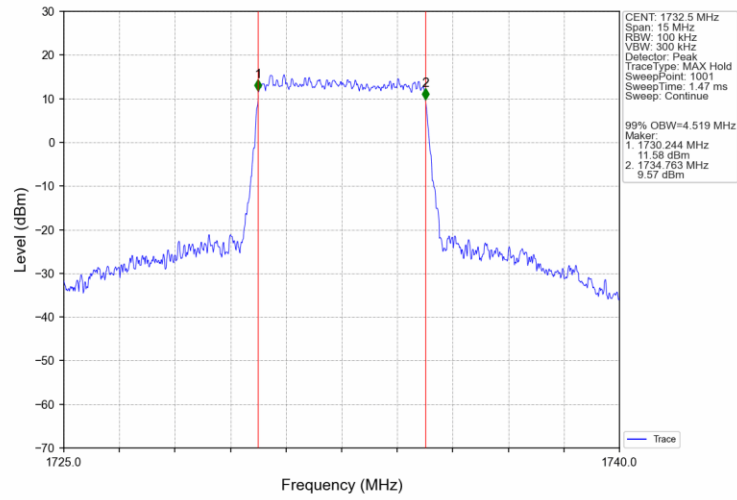
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



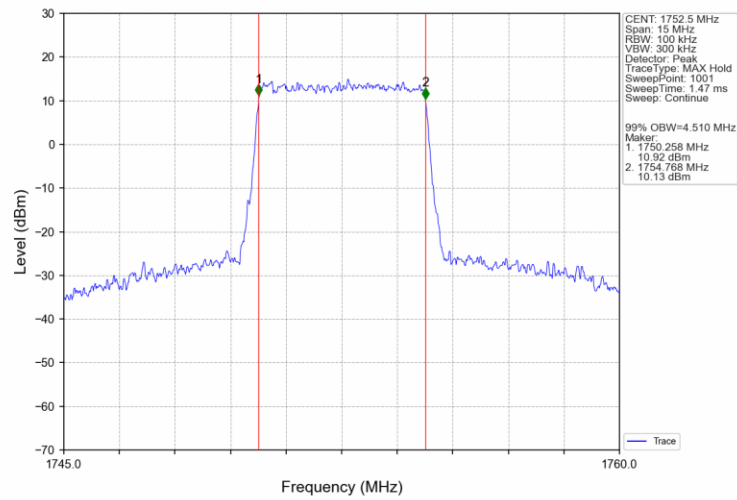
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



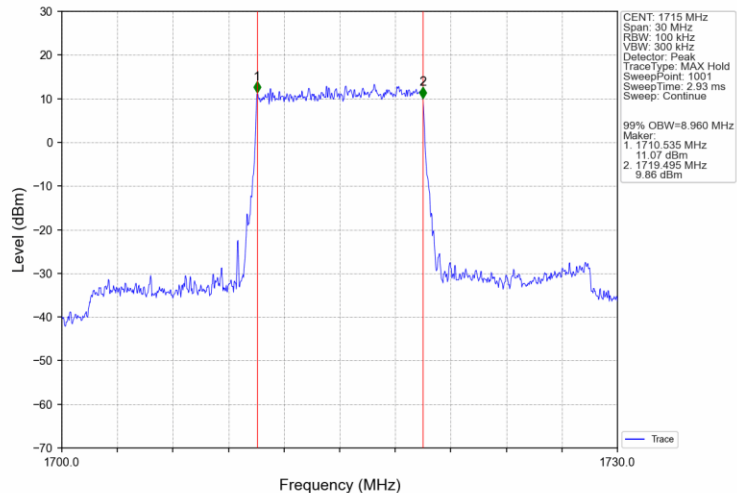
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



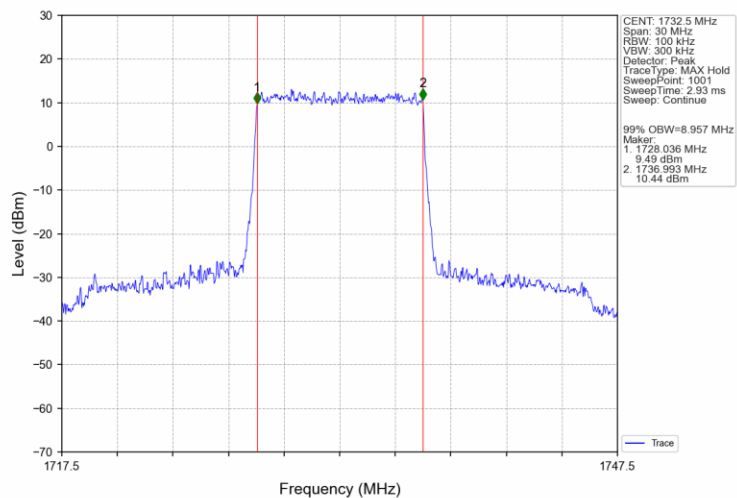
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



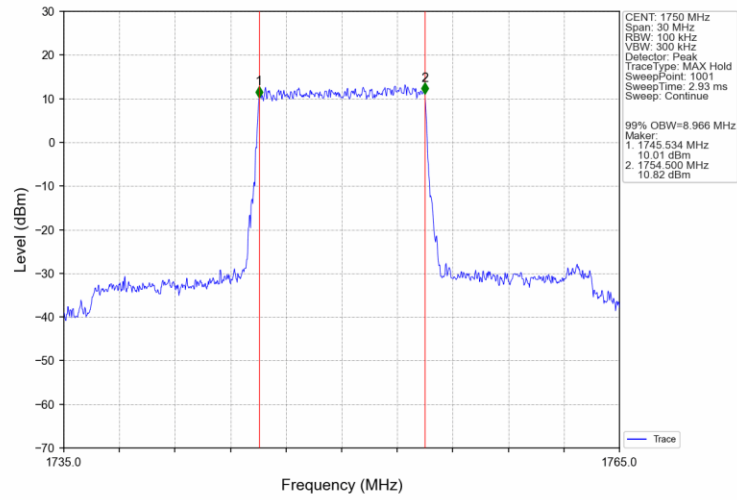
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



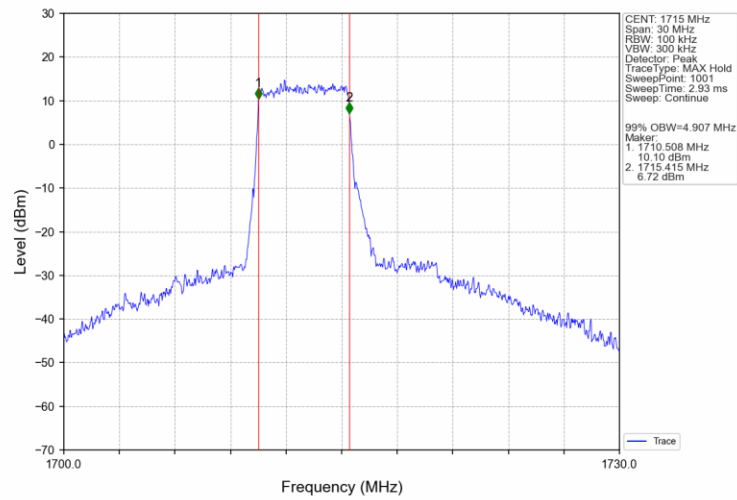
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



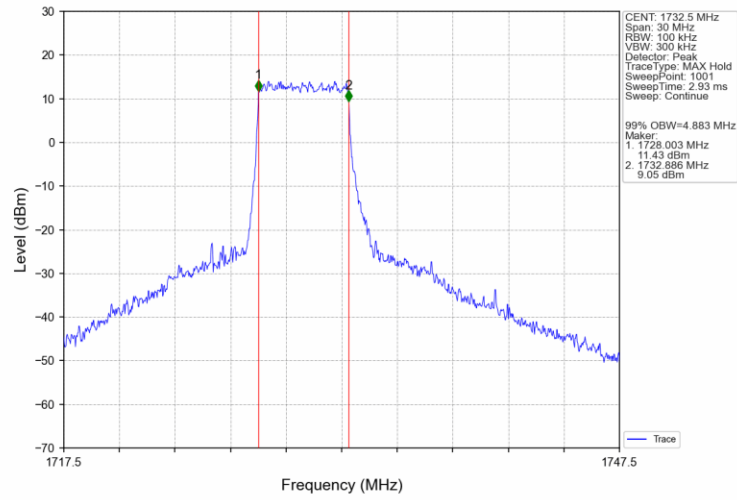
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



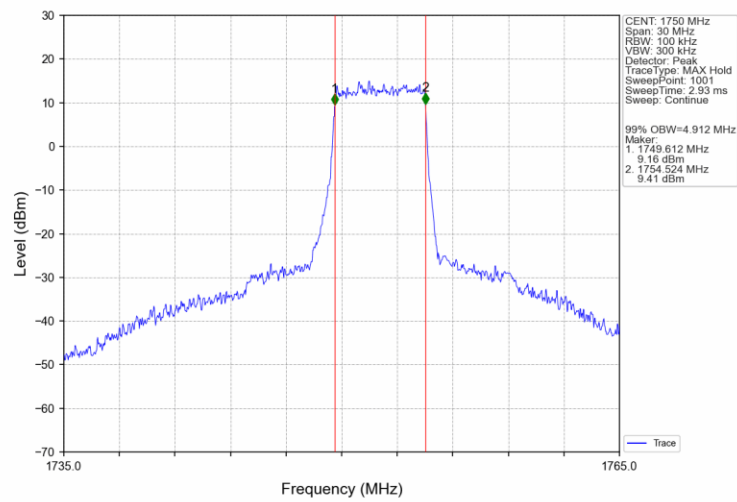
Band4_10MHz_16QAM_LCH_1715MHz_RB_27_0_NTNV



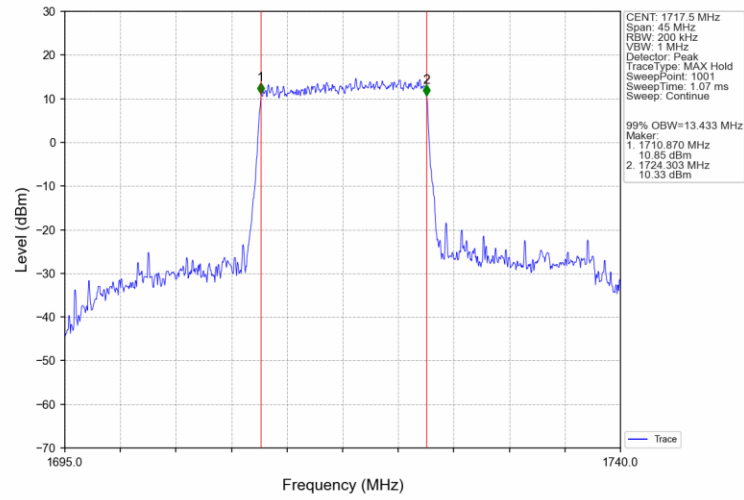
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



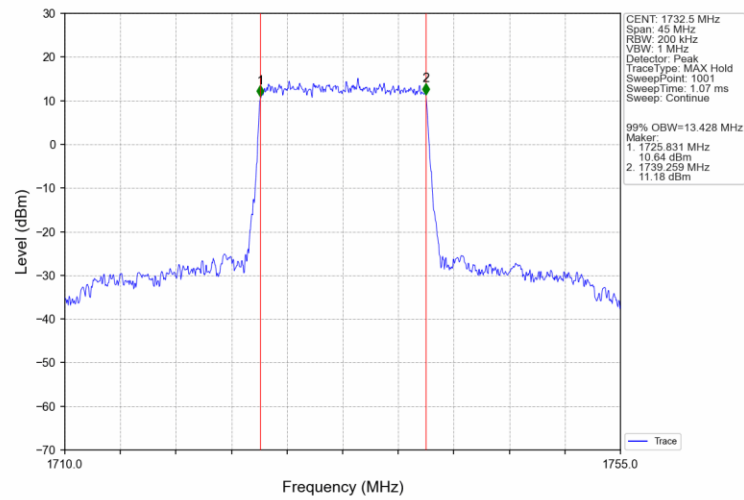
Band4_10MHz_16QAM_HCH_1750MHz_RB_27_23_NTNV



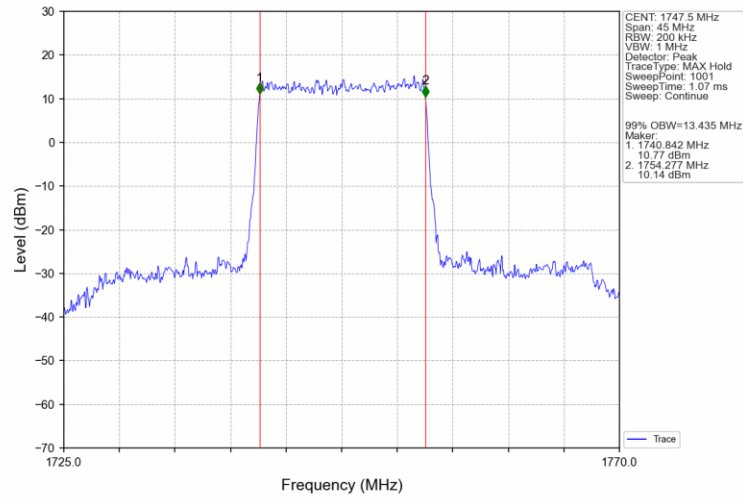
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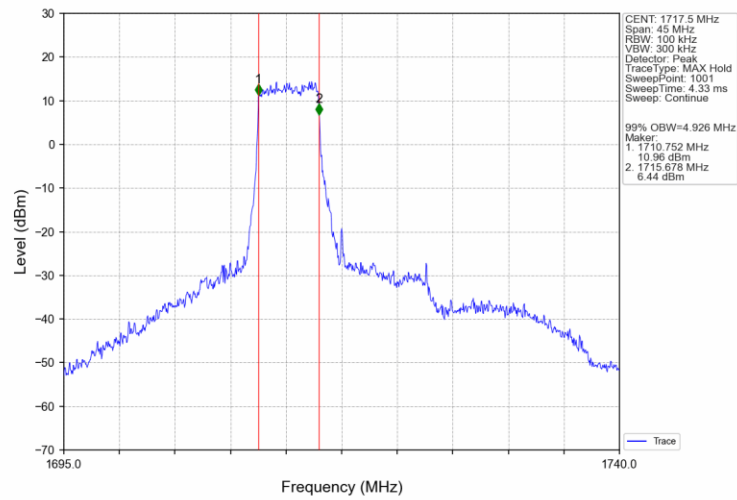
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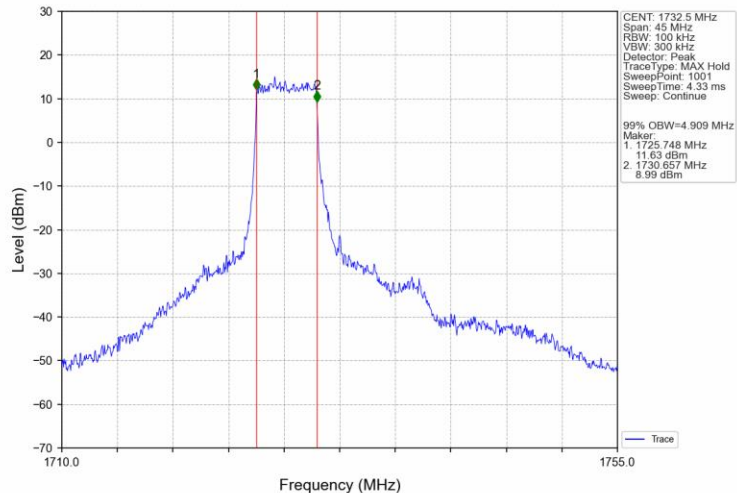
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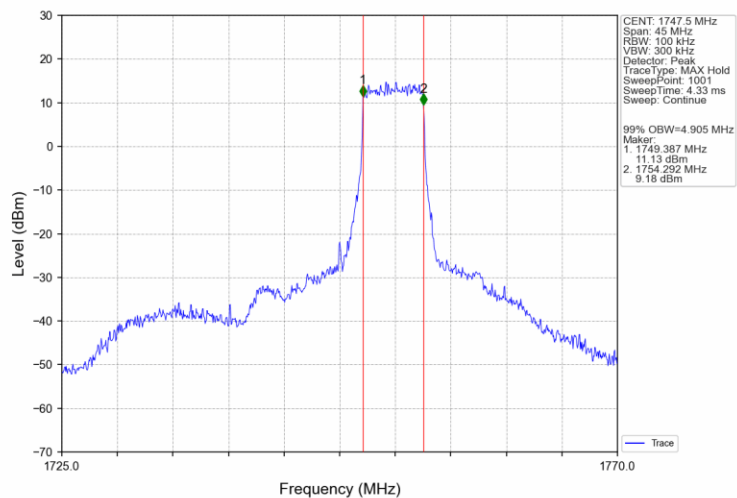
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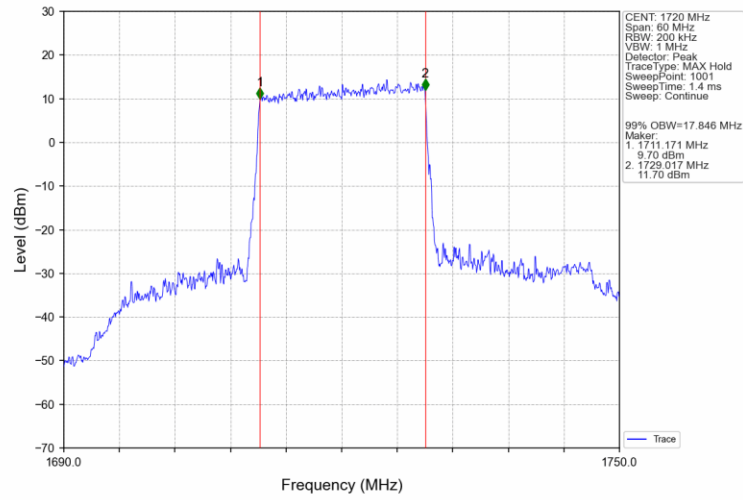
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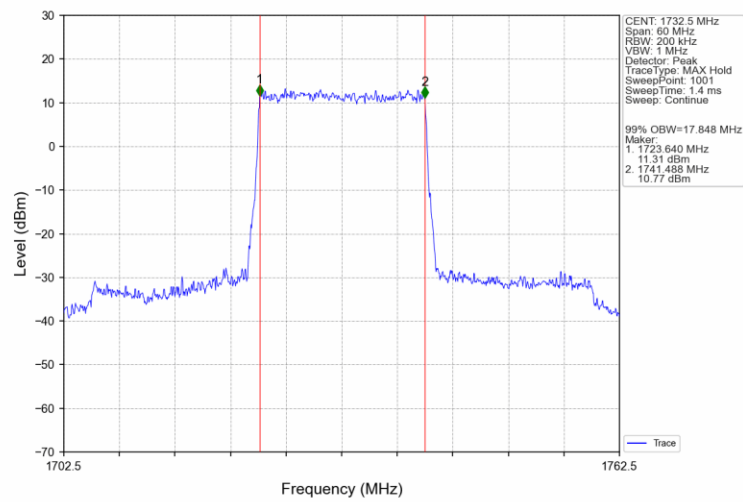
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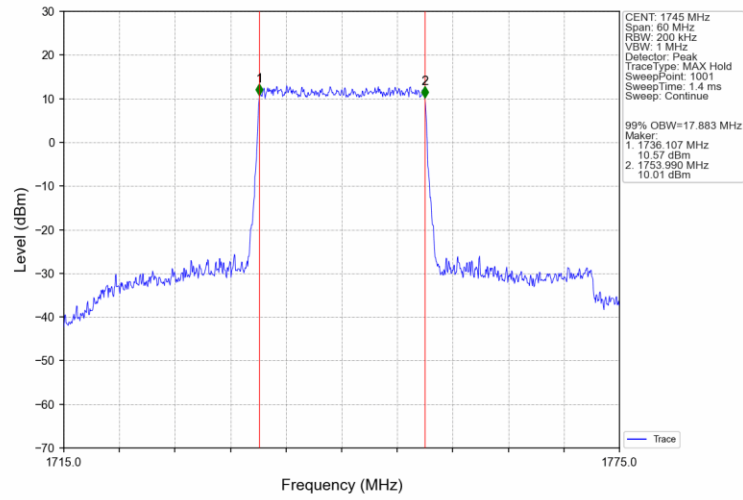
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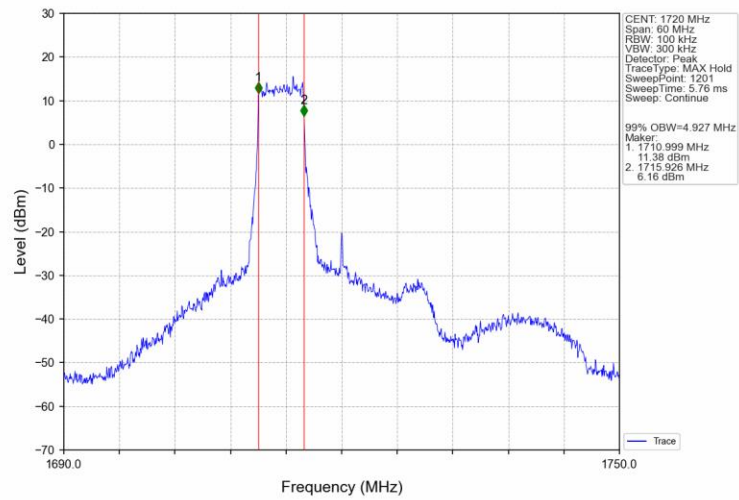
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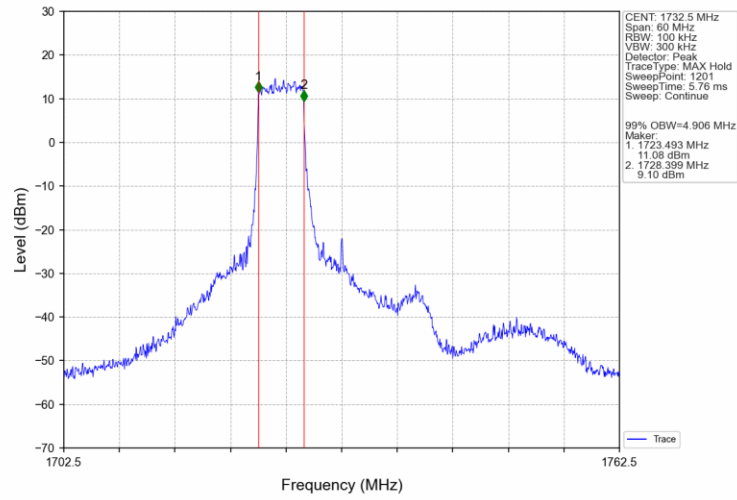
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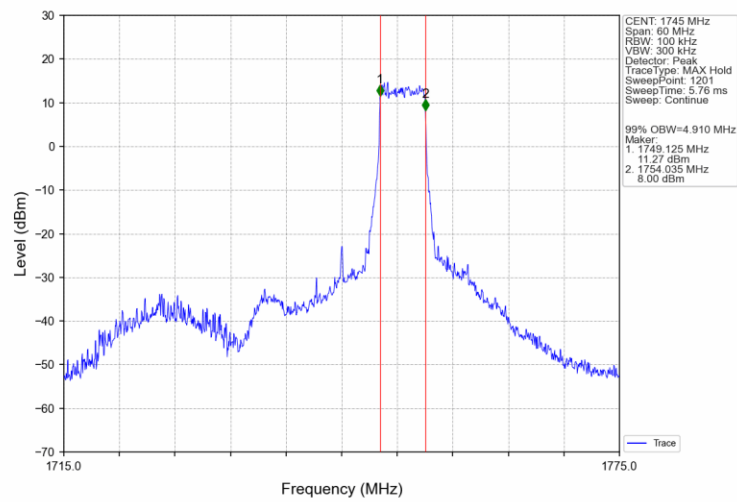
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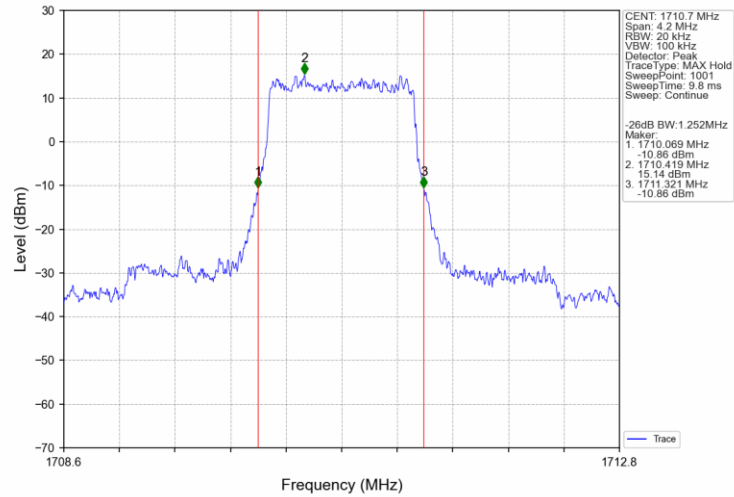


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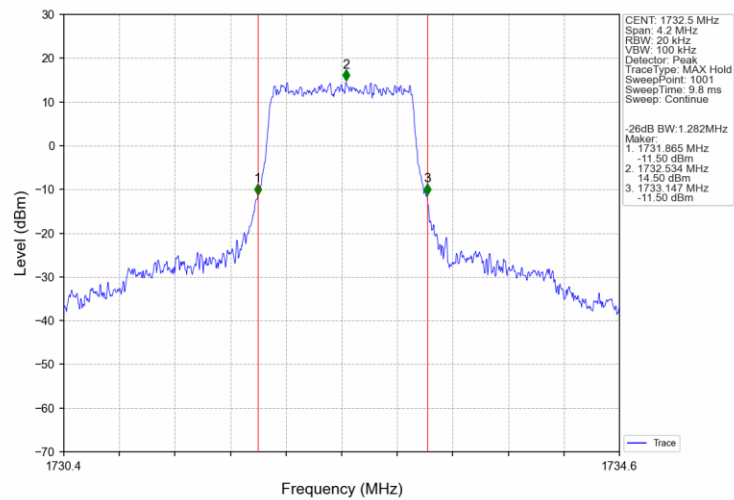


4.2.2 Band4_XDB

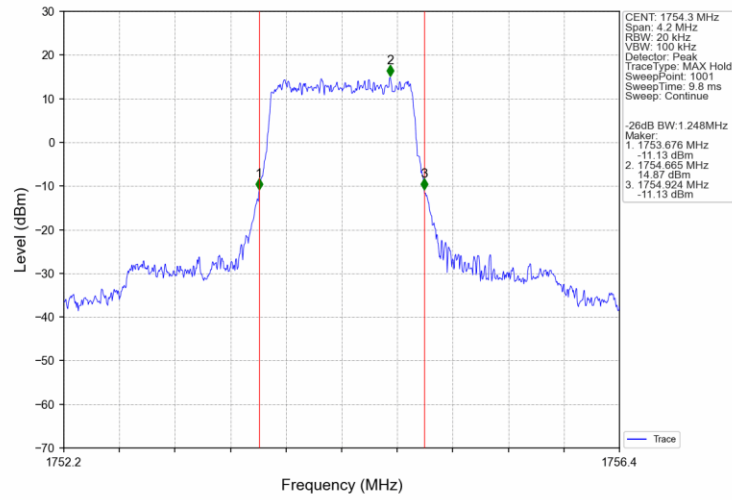
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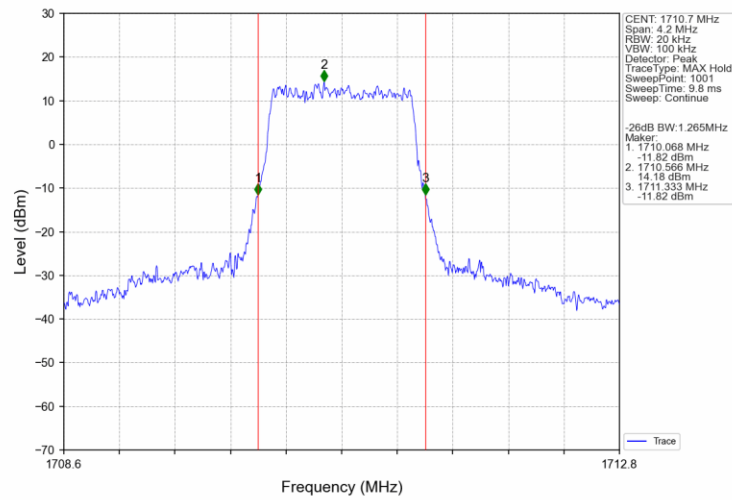
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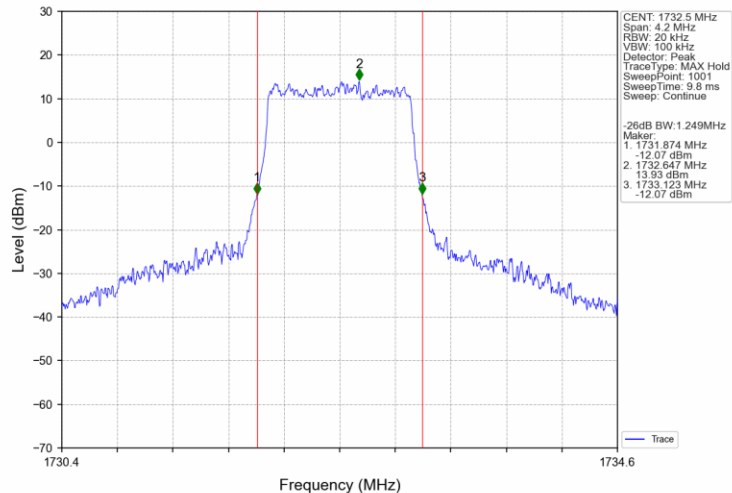
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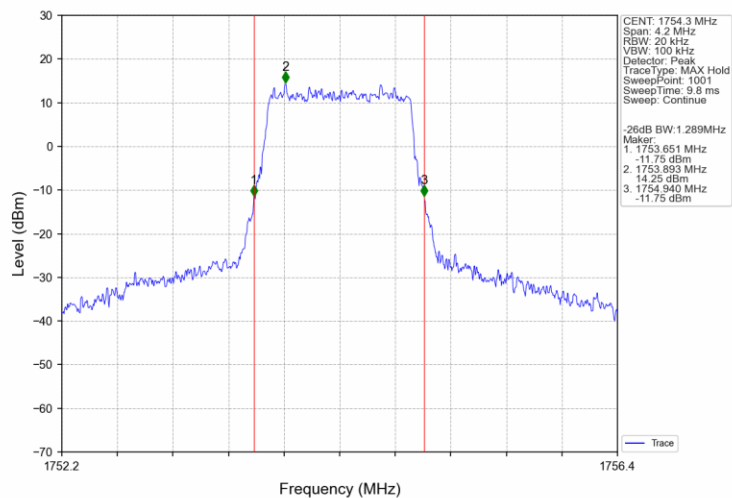
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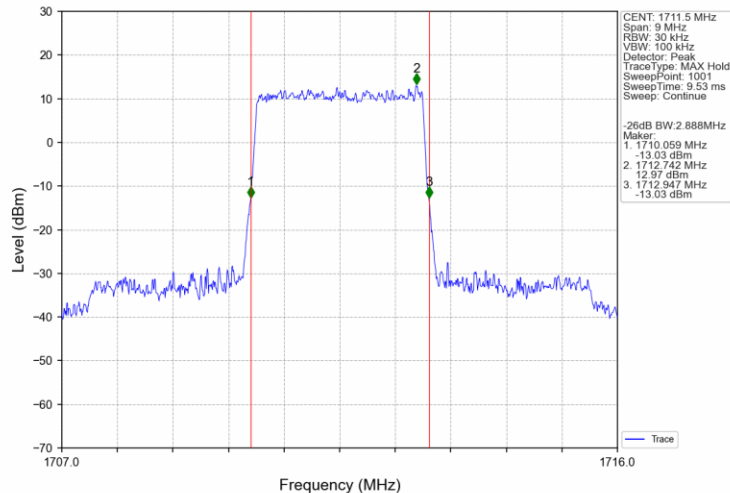
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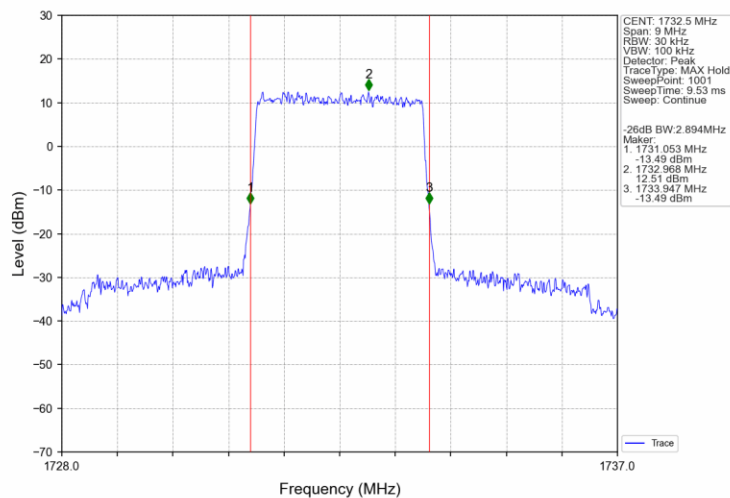
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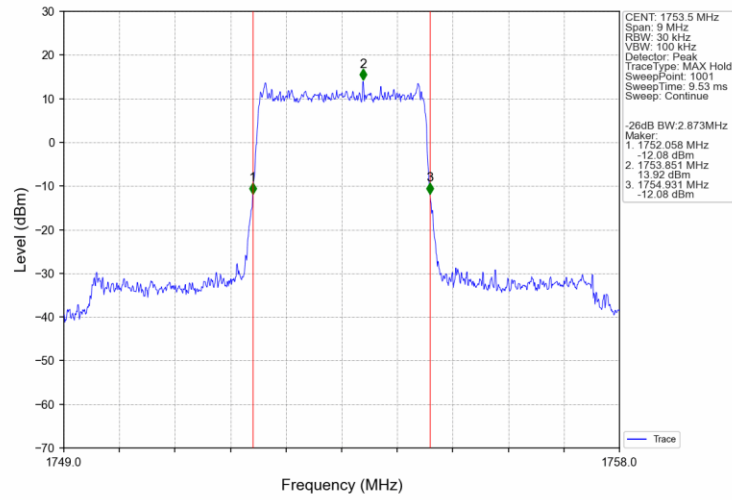
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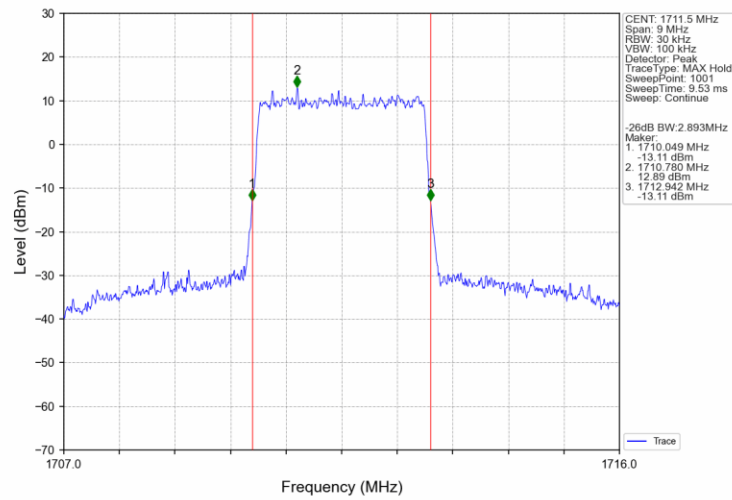
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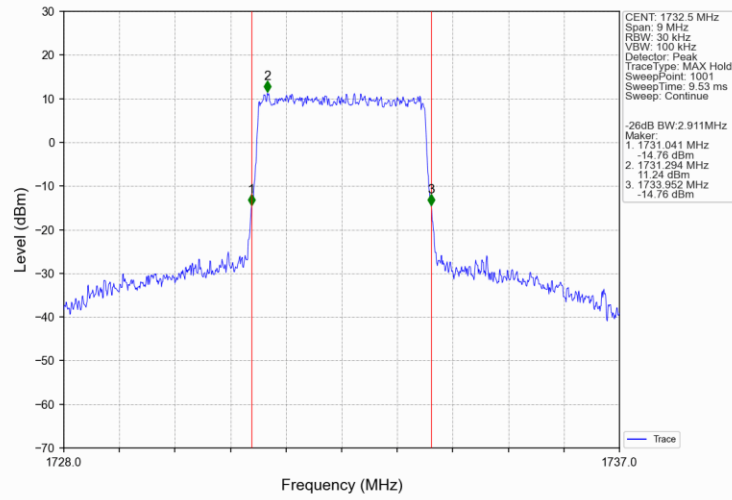
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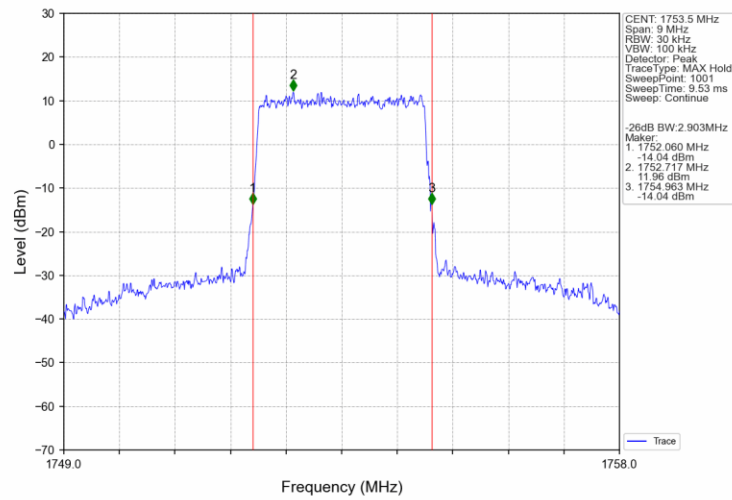
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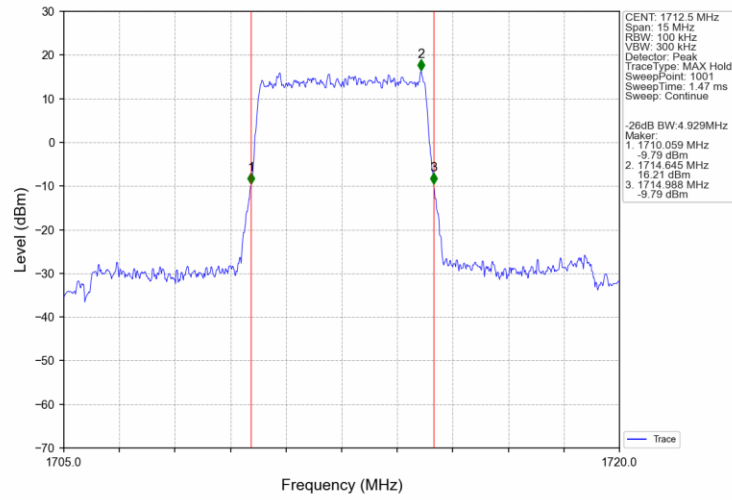
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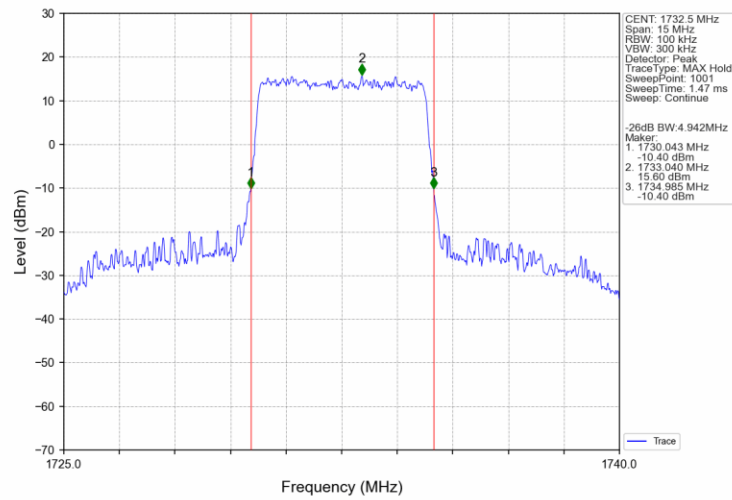
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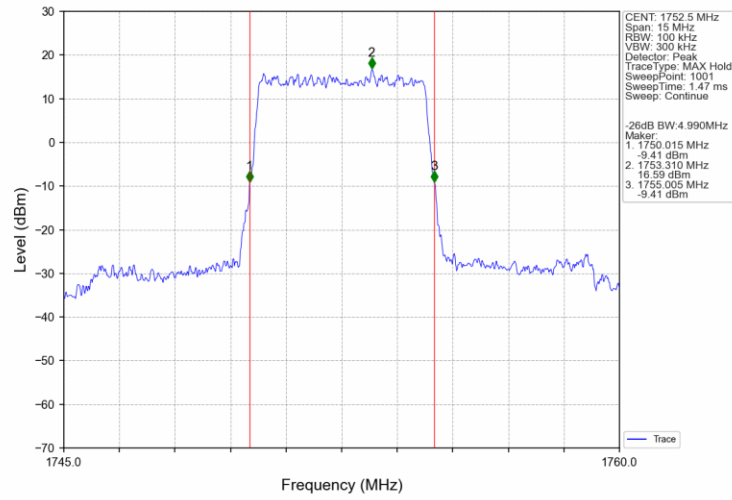
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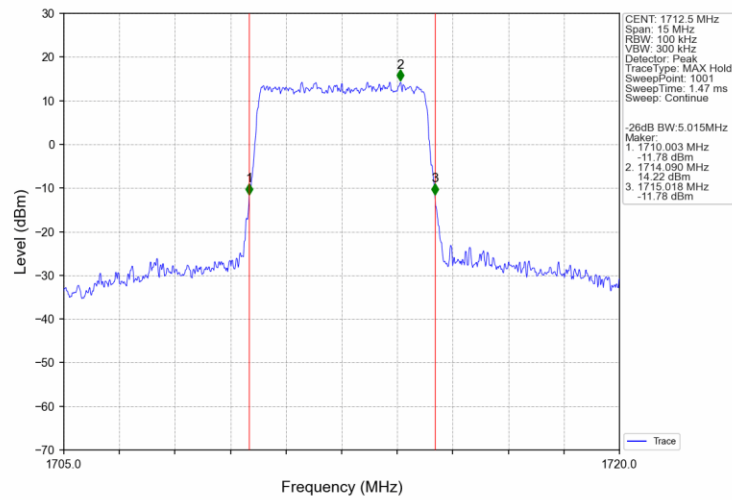
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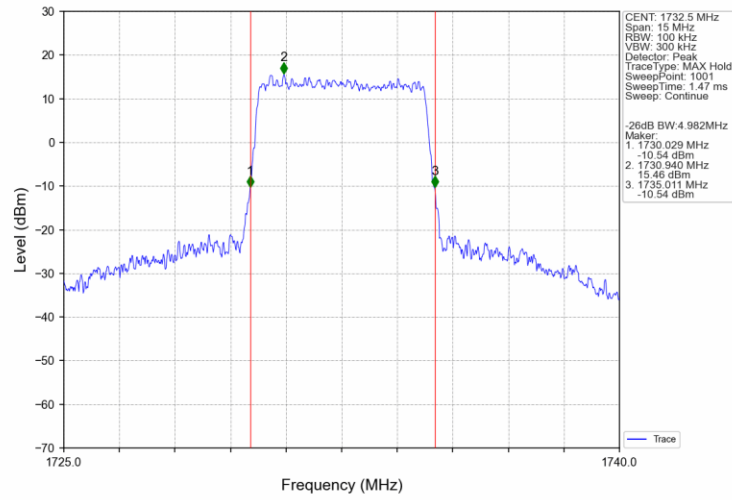
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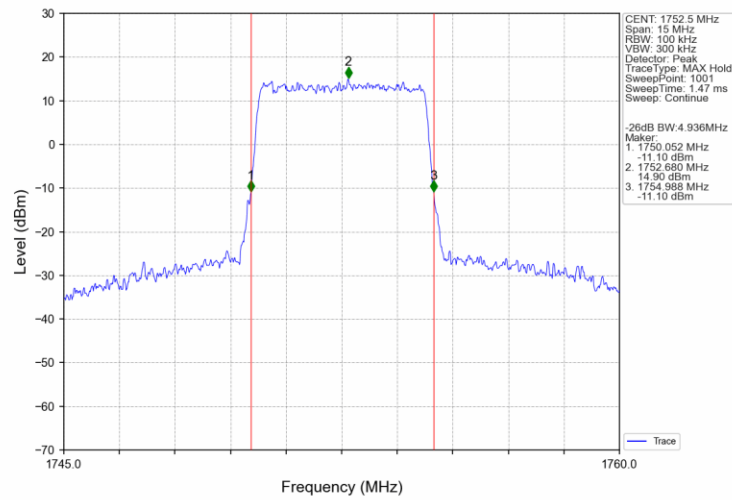
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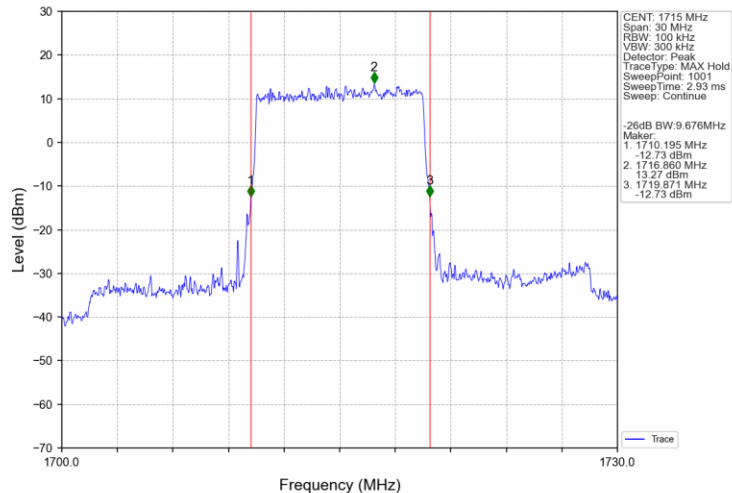
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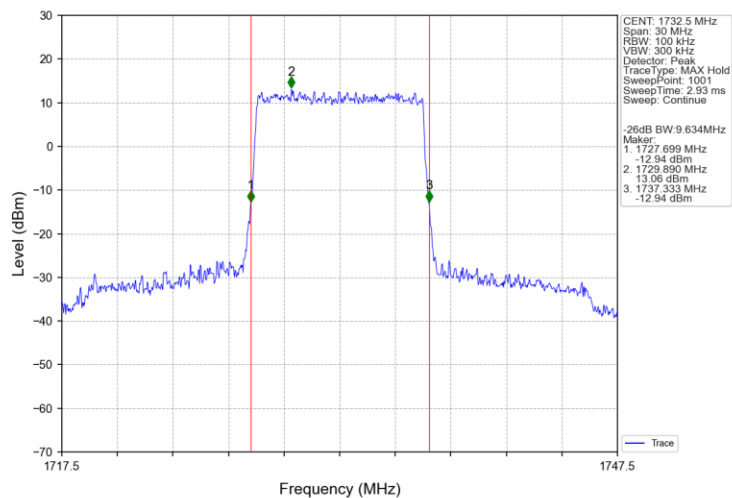
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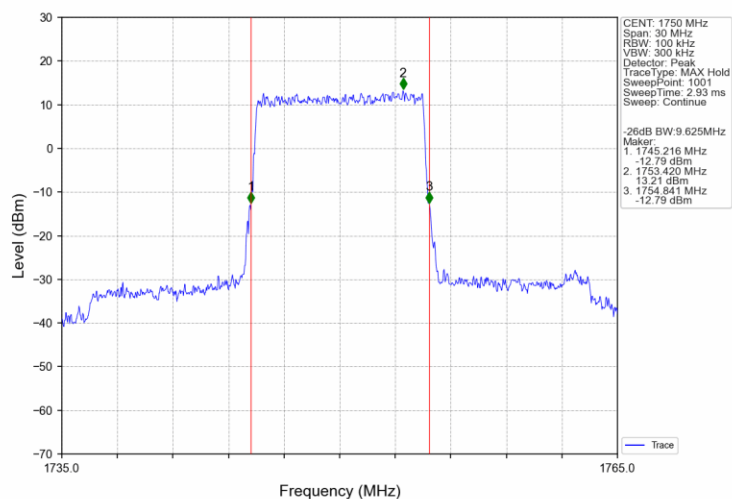
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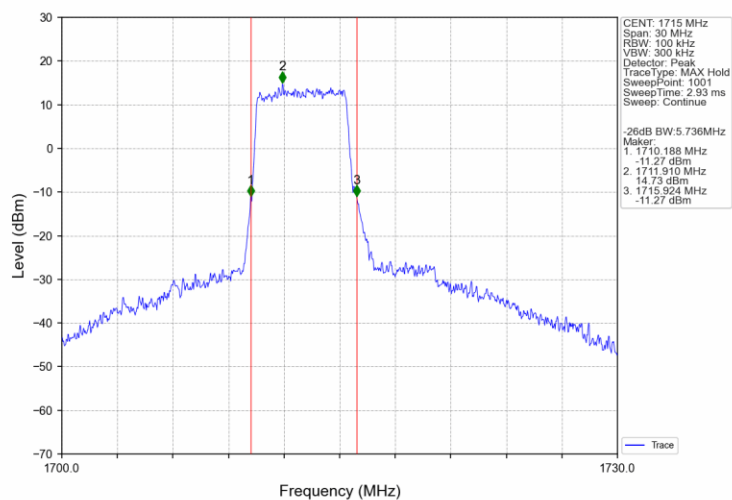
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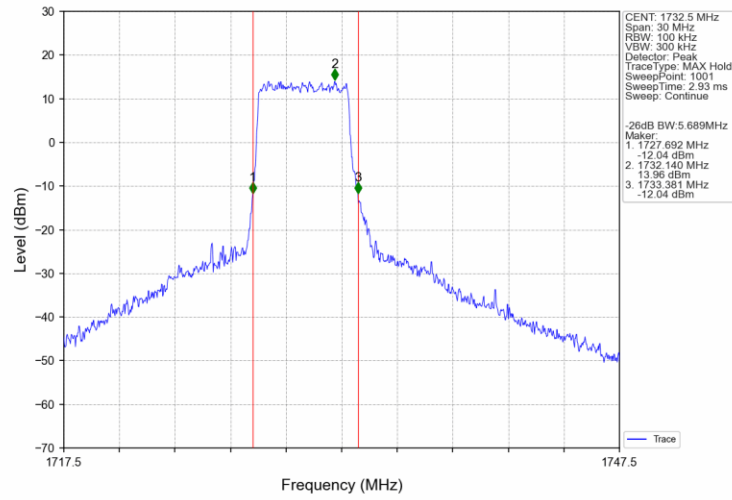
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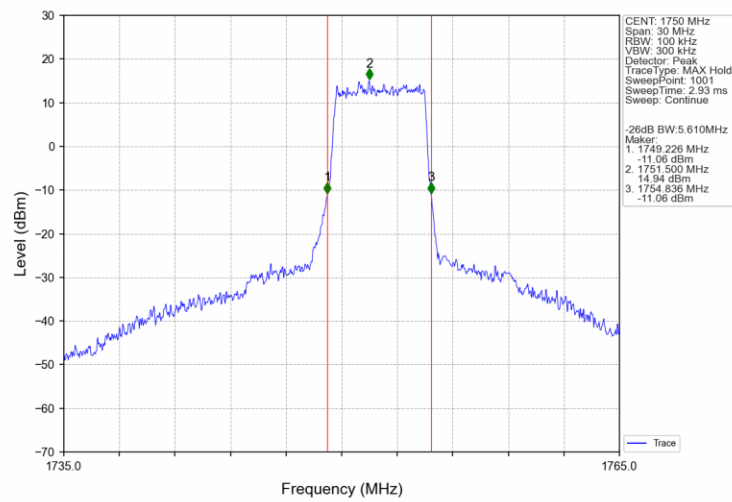
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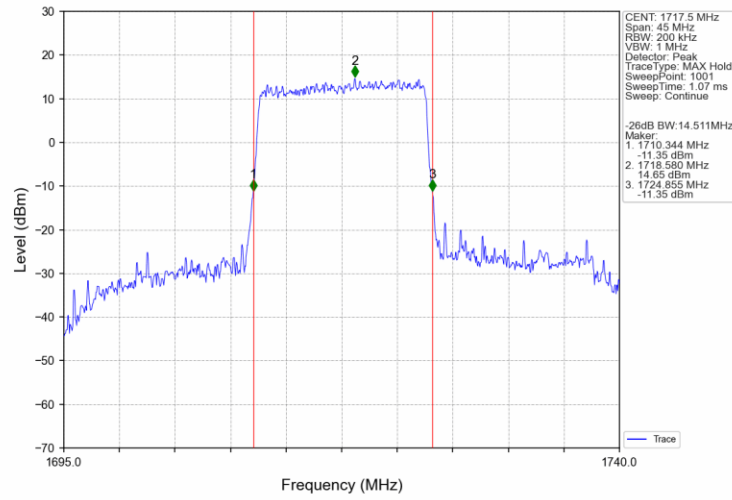
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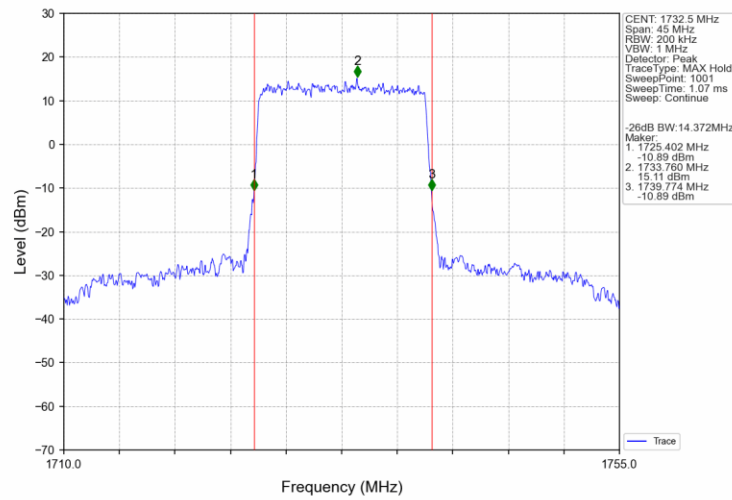
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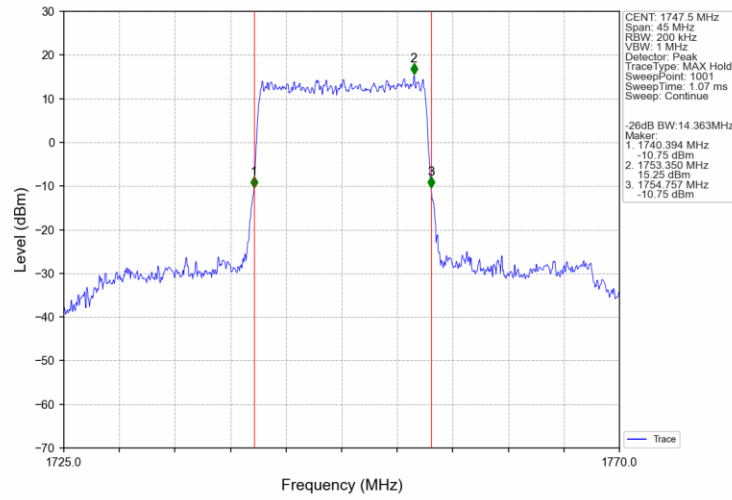
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_LCH_1717.5MHz_RB_27_0_NTNV

