

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	22.42	0.54	22.96	<=30	Pass
			2	22.39	0.54	22.93	<=30	Pass
			5	22.42	0.54	22.96	<=30	Pass
		3	0	22.42	0.54	22.96	<=30	Pass
			2	22.43	0.54	22.97	<=30	Pass
			3	22.39	0.54	22.93	<=30	Pass
		6	0	21.47	0.54	22.01	<=30	Pass
	1732.5	1	0	22.48	0.54	23.02	<=30	Pass
			2	22.47	0.54	23.01	<=30	Pass
			5	22.50	0.54	23.04	<=30	Pass
		3	0	22.59	0.54	23.13	<=30	Pass
			2	22.56	0.54	23.10	<=30	Pass
			3	22.55	0.54	23.09	<=30	Pass
		6	0	21.59	0.54	22.13	<=30	Pass
	1754.3	1	0	22.35	0.54	22.89	<=30	Pass
			2	22.34	0.54	22.88	<=30	Pass
			5	22.35	0.54	22.89	<=30	Pass
		3	0	22.37	0.54	22.91	<=30	Pass
			2	22.37	0.54	22.91	<=30	Pass
			3	22.38	0.54	22.92	<=30	Pass
		6	0	21.35	0.54	21.89	<=30	Pass
16QAM	1710.7	1	0	21.63	0.54	22.17	<=30	Pass
			2	21.64	0.54	22.18	<=30	Pass
			5	21.62	0.54	22.16	<=30	Pass
		3	0	21.42	0.54	21.96	<=30	Pass
			2	21.43	0.54	21.97	<=30	Pass
			3	21.43	0.54	21.97	<=30	Pass
		6	0	20.47	0.54	21.01	<=30	Pass
	1732.5	1	0	21.57	0.54	22.11	<=30	Pass
			2	21.55	0.54	22.09	<=30	Pass
			5	21.59	0.54	22.13	<=30	Pass
		3	0	21.73	0.54	22.27	<=30	Pass
			2	21.70	0.54	22.24	<=30	Pass
			3	21.72	0.54	22.26	<=30	Pass
		6	0	20.57	0.54	21.11	<=30	Pass
	1754.3	1	0	21.36	0.54	21.90	<=30	Pass
			2	21.37	0.54	21.91	<=30	Pass
			5	21.41	0.54	21.95	<=30	Pass
		3	0	21.42	0.54	21.96	<=30	Pass
			2	21.40	0.54	21.94	<=30	Pass
			3	21.39	0.54	21.93	<=30	Pass
		6	0	20.26	0.54	20.80	<=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	22.41	0.54	22.95	<=30	Pass
			7	22.42	0.54	22.96	<=30	Pass
			14	22.41	0.54	22.95	<=30	Pass
		8	0	21.40	0.54	21.94	<=30	Pass
			4	21.40	0.54	21.94	<=30	Pass
			7	21.43	0.54	21.97	<=30	Pass
		15	0	21.42	0.54	21.96	<=30	Pass
			7	21.42	0.54	21.96	<=30	Pass
			14	21.42	0.54	21.96	<=30	Pass
	1732.5	1	0	22.47	0.54	23.01	<=30	Pass
			7	22.47	0.54	23.01	<=30	Pass
			14	22.46	0.54	23.00	<=30	Pass
		8	0	21.54	0.54	22.08	<=30	Pass
			4	21.48	0.54	22.02	<=30	Pass
			7	21.50	0.54	22.04	<=30	Pass
		15	0	21.51	0.54	22.05	<=30	Pass
			7	21.51	0.54	22.05	<=30	Pass
			14	21.51	0.54	22.05	<=30	Pass
	1753.5	1	0	22.28	0.54	22.82	<=30	Pass
			7	22.26	0.54	22.80	<=30	Pass
			14	22.23	0.54	22.77	<=30	Pass
		8	0	21.26	0.54	21.80	<=30	Pass
			4	21.25	0.54	21.79	<=30	Pass
			7	21.24	0.54	21.78	<=30	Pass
		15	0	21.27	0.54	21.81	<=30	Pass
			7	21.27	0.54	21.81	<=30	Pass
			14	21.27	0.54	21.81	<=30	Pass
16QAM	1711.5	1	0	21.48	0.54	22.02	<=30	Pass
			7	21.48	0.54	22.02	<=30	Pass
			14	21.45	0.54	21.99	<=30	Pass
		8	0	20.49	0.54	21.03	<=30	Pass
			4	20.51	0.54	21.05	<=30	Pass
			7	20.50	0.54	21.04	<=30	Pass
		15	0	20.48	0.54	21.02	<=30	Pass
			7	20.48	0.54	21.02	<=30	Pass
			14	20.48	0.54	21.02	<=30	Pass
	1732.5	1	0	21.73	0.54	22.27	<=30	Pass
			7	21.75	0.54	22.29	<=30	Pass
			14	21.69	0.54	22.23	<=30	Pass
		8	0	20.51	0.54	21.05	<=30	Pass
			4	20.48	0.54	21.02	<=30	Pass
			7	20.46	0.54	21.00	<=30	Pass
		15	0	20.46	0.54	21.00	<=30	Pass
			7	20.46	0.54	21.00	<=30	Pass
			14	20.46	0.54	21.00	<=30	Pass
	1753.5	1	0	21.82	0.54	22.36	<=30	Pass
			7	21.77	0.54	22.31	<=30	Pass
			14	21.45	0.54	21.99	<=30	Pass
		8	0	20.43	0.54	20.97	<=30	Pass
			4	20.42	0.54	20.96	<=30	Pass
			7	20.41	0.54	20.95	<=30	Pass
		15	0	20.35	0.54	20.89	<=30	Pass
			7	20.35	0.54	20.89	<=30	Pass
			14	20.35	0.54	20.89	<=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	22.50	0.54	23.04	<=30	Pass
			13	22.21	0.54	22.75	<=30	Pass
			24	21.98	0.54	22.52	<=30	Pass
		12	0	21.43	0.54	21.97	<=30	Pass
			6	21.47	0.54	22.01	<=30	Pass
			13	21.44	0.54	21.98	<=30	Pass
		25	0	21.45	0.54	21.99	<=30	Pass
	1732.5	1	0	22.05	0.54	22.59	<=30	Pass
			13	22.03	0.54	22.57	<=30	Pass
			24	22.09	0.54	22.63	<=30	Pass
		12	0	21.60	0.54	22.14	<=30	Pass
			6	21.54	0.54	22.08	<=30	Pass
			13	21.52	0.54	22.06	<=30	Pass
		25	0	21.58	0.54	22.12	<=30	Pass
	1752.5	1	0	21.95	0.54	22.49	<=30	Pass
			13	21.88	0.54	22.42	<=30	Pass
			24	21.93	0.54	22.47	<=30	Pass
		12	0	21.31	0.54	21.85	<=30	Pass
			6	21.31	0.54	21.85	<=30	Pass
			13	21.31	0.54	21.85	<=30	Pass
		25	0	21.32	0.54	21.86	<=30	Pass
16QAM	1712.5	1	0	21.07	0.54	21.61	<=30	Pass
			13	21.02	0.54	21.56	<=30	Pass
			24	21.05	0.54	21.59	<=30	Pass
		12	0	20.40	0.54	20.94	<=30	Pass
			6	20.41	0.54	20.95	<=30	Pass
			13	20.39	0.54	20.93	<=30	Pass
		25	0	20.48	0.54	21.02	<=30	Pass
	1732.5	1	0	21.35	0.54	21.89	<=30	Pass
			13	21.29	0.54	21.83	<=30	Pass
			24	21.35	0.54	21.89	<=30	Pass
		12	0	20.62	0.54	21.16	<=30	Pass
			6	20.57	0.54	21.11	<=30	Pass
			13	20.54	0.54	21.08	<=30	Pass
		25	0	20.56	0.54	21.10	<=30	Pass
	1752.5	1	0	20.71	0.54	21.25	<=30	Pass
			13	20.66	0.54	21.20	<=30	Pass
			24	20.67	0.54	21.21	<=30	Pass
		12	0	20.29	0.54	20.83	<=30	Pass
			6	20.30	0.54	20.84	<=30	Pass
			13	20.29	0.54	20.83	<=30	Pass
		25	0	20.35	0.54	20.89	<=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	21.97	0.54	22.51	<=30	Pass
			25	21.97	0.54	22.51	<=30	Pass
			49	22.04	0.54	22.58	<=30	Pass
		25	0	21.42	0.54	21.96	<=30	Pass
			13	21.49	0.54	22.03	<=30	Pass
			25	21.59	0.54	22.13	<=30	Pass
		50	0	21.55	0.54	22.09	<=30	Pass
			0	21.98	0.54	22.52	<=30	Pass
			25	22.06	0.54	22.60	<=30	Pass
	1732.5	1	49	22.02	0.54	22.56	<=30	Pass
			0	21.61	0.54	22.15	<=30	Pass
			13	21.60	0.54	22.14	<=30	Pass
		25	25	21.52	0.54	22.06	<=30	Pass
			0	21.55	0.54	22.09	<=30	Pass
			0	21.82	0.54	22.36	<=30	Pass
		25	25	21.79	0.54	22.33	<=30	Pass
			49	21.74	0.54	22.28	<=30	Pass
			0	21.30	0.54	21.84	<=30	Pass
	1750	25	13	21.29	0.54	21.83	<=30	Pass
			25	21.37	0.54	21.91	<=30	Pass
			0	21.36	0.54	21.90	<=30	Pass
16QAM	1715	1	0	20.96	0.54	21.50	<=30	Pass
			25	20.96	0.54	21.50	<=30	Pass
			49	21.04	0.54	21.58	<=30	Pass
		12	0	21.48	0.54	22.02	<=30	Pass
			19	21.54	0.54	22.08	<=30	Pass
			38	21.61	0.54	22.15	<=30	Pass
		27	0	20.40	0.54	20.94	<=30	Pass
			0	21.21	0.54	21.75	<=30	Pass
			25	21.23	0.54	21.77	<=30	Pass
	1732.5	1	49	21.23	0.54	21.77	<=30	Pass
			0	21.52	0.54	22.06	<=30	Pass
			19	21.57	0.54	22.11	<=30	Pass
		12	38	21.48	0.54	22.02	<=30	Pass
			0	20.58	0.54	21.12	<=30	Pass
			0	21.41	0.54	21.95	<=30	Pass
		27	25	21.36	0.54	21.90	<=30	Pass
			49	21.33	0.54	21.87	<=30	Pass
			0	21.40	0.54	21.94	<=30	Pass
	1750	12	19	21.35	0.54	21.89	<=30	Pass
			38	21.39	0.54	21.93	<=30	Pass
			23	20.34	0.54	20.88	<=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	21.77	0.54	22.31	<=30	Pass
			38	21.84	0.54	22.38	<=30	Pass
			74	21.82	0.54	22.36	<=30	Pass
		36	0	21.29	0.54	21.83	<=30	Pass
			18	21.39	0.54	21.93	<=30	Pass
			39	21.50	0.54	22.04	<=30	Pass
		75	0	21.43	0.54	21.97	<=30	Pass
	1732.5	1	0	21.87	0.54	22.41	<=30	Pass
			38	21.98	0.54	22.52	<=30	Pass
			74	21.88	0.54	22.42	<=30	Pass
		36	0	21.45	0.54	21.99	<=30	Pass
			18	21.49	0.54	22.03	<=30	Pass
			39	21.43	0.54	21.97	<=30	Pass
		75	0	21.43	0.54	21.97	<=30	Pass
	1747.5	1	0	21.81	0.54	22.35	<=30	Pass
			38	21.83	0.54	22.37	<=30	Pass
			74	21.63	0.54	22.17	<=30	Pass
		36	0	21.31	0.54	21.85	<=30	Pass
			18	21.29	0.54	21.83	<=30	Pass
			39	21.29	0.54	21.83	<=30	Pass
		75	0	21.32	0.54	21.86	<=30	Pass
16QAM	1717.5	1	0	21.20	0.54	21.74	<=30	Pass
			38	21.27	0.54	21.81	<=30	Pass
			74	21.31	0.54	21.85	<=30	Pass
		12	0	21.29	0.54	21.83	<=30	Pass
			31	21.37	0.54	21.91	<=30	Pass
			63	21.40	0.54	21.94	<=30	Pass
		27	0	20.32	0.54	20.86	<=30	Pass
	1732.5	1	0	21.08	0.54	21.62	<=30	Pass
			38	21.20	0.54	21.74	<=30	Pass
			74	21.08	0.54	21.62	<=30	Pass
		12	0	21.42	0.54	21.96	<=30	Pass
			31	21.54	0.54	22.08	<=30	Pass
			63	21.46	0.54	22.00	<=30	Pass
		27	0	20.49	0.54	21.03	<=30	Pass
	1747.5	1	0	21.38	0.54	21.92	<=30	Pass
			38	21.43	0.54	21.97	<=30	Pass
			74	21.22	0.54	21.76	<=30	Pass
		12	0	21.38	0.54	21.92	<=30	Pass
			31	21.34	0.54	21.88	<=30	Pass
			63	21.22	0.54	21.76	<=30	Pass
		27	48	20.25	0.54	20.79	<=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	21.74	0.54	22.28	<=30	Pass
			50	21.87	0.54	22.41	<=30	Pass
			99	21.82	0.54	22.36	<=30	Pass
		50	0	21.23	0.54	21.77	<=30	Pass
			25	21.48	0.54	22.02	<=30	Pass
			50	21.61	0.54	22.15	<=30	Pass
		100	0	21.44	0.54	21.98	<=30	Pass
			0	21.77	0.54	22.31	<=30	Pass
			50	21.92	0.54	22.46	<=30	Pass
	1732.5	1	0	21.76	0.54	22.30	<=30	Pass
			50	21.36	0.54	21.90	<=30	Pass
			25	21.44	0.54	21.98	<=30	Pass
		50	50	21.35	0.54	21.89	<=30	Pass
			0	21.33	0.54	21.87	<=30	Pass
			0	21.78	0.54	22.32	<=30	Pass
		100	50	21.80	0.54	22.34	<=30	Pass
			99	21.60	0.54	22.14	<=30	Pass
			0	21.31	0.54	21.85	<=30	Pass
16QAM	1720	1	25	21.27	0.54	21.81	<=30	Pass
			50	21.28	0.54	21.82	<=30	Pass
			0	21.28	0.54	21.82	<=30	Pass
		12	0	21.37	0.54	21.91	<=30	Pass
			50	21.47	0.54	22.01	<=30	Pass
			99	21.52	0.54	22.06	<=30	Pass
		27	0	21.30	0.54	21.84	<=30	Pass
			44	21.40	0.54	21.94	<=30	Pass
			88	21.41	0.54	21.95	<=30	Pass
	1732.5	1	0	20.19	0.54	20.73	<=30	Pass
			50	21.06	0.54	21.60	<=30	Pass
			99	21.18	0.54	21.72	<=30	Pass
		12	0	20.97	0.54	21.51	<=30	Pass
			0	21.28	0.54	21.82	<=30	Pass
			44	21.41	0.54	21.95	<=30	Pass
		27	88	21.20	0.54	21.74	<=30	Pass
			0	21.20	0.54	21.74	<=30	Pass
			0	20.27	0.54	20.81	<=30	Pass
	1745	1	0	21.12	0.54	21.66	<=30	Pass
			50	21.09	0.54	21.63	<=30	Pass
			99	21.02	0.54	21.56	<=30	Pass
		12	0	21.50	0.54	22.04	<=30	Pass
			44	21.40	0.54	21.94	<=30	Pass
			88	21.29	0.54	21.83	<=30	Pass
		27	73	20.29	0.54	20.83	<=30	Pass
			0	21.12	0.54	21.66	<=30	Pass
			50	21.09	0.54	21.63	<=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	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	1710.7	6	0	20	3.27	2.303	0.0013	-2.5 to 2.5	Pass
					3.85	-0.043	0.0000	-2.5 to 2.5	Pass
					4.43	-7.496	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	6.380	0.0037	-2.5 to 2.5	Pass
				-20	3.85	0.501	0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.329	0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.672	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-1.345	-0.0008	-2.5 to 2.5	Pass
				40	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				50	3.85	3.848	0.0022	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	10.228	0.0059	-2.5 to 2.5	Pass
					3.85	1.802	0.0010	-2.5 to 2.5	Pass
					4.43	1.645	0.0009	-2.5 to 2.5	Pass
				-30	3.85	-2.189	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	2.275	0.0013	-2.5 to 2.5	Pass
				-10	3.85	2.646	0.0015	-2.5 to 2.5	Pass
				0	3.85	4.292	0.0025	-2.5 to 2.5	Pass
				10	3.85	0.429	0.0002	-2.5 to 2.5	Pass
				30	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-2.532	-0.0015	-2.5 to 2.5	Pass
				50	3.85	4.978	0.0029	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	7.553	0.0043	-2.5 to 2.5	Pass
					3.85	5.064	0.0029	-2.5 to 2.5	Pass
					4.43	-0.787	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.644	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	4.807	0.0027	-2.5 to 2.5	Pass
				-10	3.85	1.774	0.0010	-2.5 to 2.5	Pass
				0	3.85	-5.350	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-0.343	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-3.519	-0.0020	-2.5 to 2.5	Pass
				40	3.85	8.154	0.0046	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	5.636	0.0033	-2.5 to 2.5	Pass
					3.85	-5.665	-0.0033	-2.5 to 2.5	Pass
					4.43	3.977	0.0023	-2.5 to 2.5	Pass
				-30	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.85	4.563	0.0027	-2.5 to 2.5	Pass
				0	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				10	3.85	5.965	0.0035	-2.5 to 2.5	Pass
				30	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				40	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				50	3.85	5.507	0.0032	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-4.134	-0.0024	-2.5 to 2.5	Pass
					3.85	0.243	0.0001	-2.5 to 2.5	Pass
					4.43	-2.017	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	7.567	0.0044	-2.5 to 2.5	Pass
				-20	3.85	-10.600	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-7.195	-0.0042	-2.5 to 2.5	Pass
				0	3.85	1.130	0.0007	-2.5 to 2.5	Pass
				10	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass
				30	3.85	7.224	0.0042	-2.5 to 2.5	Pass
				40	3.85	-8.183	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-6.366	-0.0037	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	2.174	0.0012	-2.5 to 2.5	Pass
					3.85	4.306	0.0025	-2.5 to 2.5	Pass
					4.43	7.052	0.0040	-2.5 to 2.5	Pass

				-30	3.85	-4.621	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	0.858	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-4.821	-0.0027	-2.5 to 2.5	Pass
				10	3.85	11.845	0.0068	-2.5 to 2.5	Pass
				30	3.85	-6.967	-0.0040	-2.5 to 2.5	Pass
				40	3.85	-2.346	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-6.065	-0.0035	-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	3.705	0.0022	-2.5 to 2.5	Pass
					3.85	-0.558	-0.0003	-2.5 to 2.5	Pass
					4.43	-4.177	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-8.554	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	-3.619	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-10.686	-0.0062	-2.5 to 2.5	Pass
				0	3.85	-7.582	-0.0044	-2.5 to 2.5	Pass
				10	3.85	-1.988	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-2.060	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-6.437	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-0.701	-0.0004	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	2.203	0.0013	-2.5 to 2.5	Pass
					3.85	6.566	0.0038	-2.5 to 2.5	Pass
					4.43	8.926	0.0052	-2.5 to 2.5	Pass
				-30	3.85	-5.136	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-11.301	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	0.544	0.0003	-2.5 to 2.5	Pass
				0	3.85	3.719	0.0021	-2.5 to 2.5	Pass
				10	3.85	8.197	0.0047	-2.5 to 2.5	Pass
				30	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				40	3.85	1.874	0.0011	-2.5 to 2.5	Pass
				50	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-8.740	-0.0050	-2.5 to 2.5	Pass
					3.85	0.215	0.0001	-2.5 to 2.5	Pass
					4.43	9.627	0.0055	-2.5 to 2.5	Pass
				-30	3.85	6.409	0.0037	-2.5 to 2.5	Pass
				-20	3.85	6.752	0.0039	-2.5 to 2.5	Pass
				-10	3.85	-4.535	-0.0026	-2.5 to 2.5	Pass
				0	3.85	8.569	0.0049	-2.5 to 2.5	Pass
				10	3.85	-2.260	-0.0013	-2.5 to 2.5	Pass
				30	3.85	10.657	0.0061	-2.5 to 2.5	Pass
				40	3.85	-2.346	-0.0013	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-2.489	-0.0015	-2.5 to 2.5	Pass
					3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
					4.43	-1.173	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-3.848	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	2.847	0.0017	-2.5 to 2.5	Pass
				-10	3.85	-0.458	-0.0003	-2.5 to 2.5	Pass
				0	3.85	5.579	0.0033	-2.5 to 2.5	Pass
				10	3.85	1.459	0.0009	-2.5 to 2.5	Pass
				30	3.85	-1.688	-0.0010	-2.5 to 2.5	Pass
				40	3.85	3.505	0.0020	-2.5 to 2.5	Pass
				50	3.85	-3.433	-0.0020	-2.5 to 2.5	Pass

	1732.5	15	0	20	3.27	0.744	0.0004	-2.5 to 2.5	Pass
					3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
					4.43	-4.964	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	4.635	0.0027	-2.5 to 2.5	Pass
				-20	3.85	-2.174	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-4.706	-0.0027	-2.5 to 2.5	Pass
				0	3.85	0.672	0.0004	-2.5 to 2.5	Pass
				10	3.85	8.211	0.0047	-2.5 to 2.5	Pass
				30	3.85	0.944	0.0005	-2.5 to 2.5	Pass
				40	3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
	1753.5	15	0	50	3.85	-4.935	-0.0028	-2.5 to 2.5	Pass
				20	3.27	-2.947	-0.0017	-2.5 to 2.5	Pass
					3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
					4.43	-0.057	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-0.644	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	8.183	0.0047	-2.5 to 2.5	Pass
				-10	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				0	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				10	3.85	4.578	0.0026	-2.5 to 2.5	Pass
				30	3.85	5.822	0.0033	-2.5 to 2.5	Pass
				40	3.85	7.424	0.0042	-2.5 to 2.5	Pass
				50	3.85	1.202	0.0007	-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	1.388	0.0008	-2.5 to 2.5	Pass
					3.85	1.945	0.0011	-2.5 to 2.5	Pass
					4.43	1.287	0.0008	-2.5 to 2.5	Pass
				-30	3.85	3.004	0.0018	-2.5 to 2.5	Pass
				-20	3.85	5.808	0.0034	-2.5 to 2.5	Pass
				-10	3.85	-0.787	-0.0005	-2.5 to 2.5	Pass
				0	3.85	3.934	0.0023	-2.5 to 2.5	Pass
				10	3.85	2.618	0.0015	-2.5 to 2.5	Pass
				30	3.85	1.273	0.0007	-2.5 to 2.5	Pass
				40	3.85	7.210	0.0042	-2.5 to 2.5	Pass
	1732.5	25	0	50	3.85	3.905	0.0023	-2.5 to 2.5	Pass
				20	3.27	-1.473	-0.0009	-2.5 to 2.5	Pass
					3.85	-0.029	0.0000	-2.5 to 2.5	Pass
					4.43	2.346	0.0014	-2.5 to 2.5	Pass
				-30	3.85	5.593	0.0032	-2.5 to 2.5	Pass
				-20	3.85	4.506	0.0026	-2.5 to 2.5	Pass
				-10	3.85	2.646	0.0015	-2.5 to 2.5	Pass
				0	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				10	3.85	2.847	0.0016	-2.5 to 2.5	Pass
				30	3.85	3.734	0.0022	-2.5 to 2.5	Pass
	1752.5	25	0	40	3.85	-1.445	-0.0008	-2.5 to 2.5	Pass
				50	3.85	0.129	0.0001	-2.5 to 2.5	Pass
				20	3.27	2.933	0.0017	-2.5 to 2.5	Pass
					3.85	3.548	0.0020	-2.5 to 2.5	Pass
					4.43	8.440	0.0048	-2.5 to 2.5	Pass
				-30	3.85	3.734	0.0021	-2.5 to 2.5	Pass
				-20	3.85	-0.272	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	1.459	0.0008	-2.5 to 2.5	Pass
				0	3.85	4.892	0.0028	-2.5 to 2.5	Pass
				10	3.85	3.862	0.0022	-2.5 to 2.5	Pass

16QAM	1712.5	25	0	30	3.85	-2.203	-0.0013	-2.5 to 2.5	Pass
				40	3.85	8.197	0.0047	-2.5 to 2.5	Pass
				50	3.85	9.441	0.0054	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	0.243	0.0001	-2.5 to 2.5	Pass
					3.85	3.061	0.0018	-2.5 to 2.5	Pass
					4.43	8.669	0.0051	-2.5 to 2.5	Pass
				-30	3.85	3.490	0.0020	-2.5 to 2.5	Pass
				-20	3.85	3.061	0.0018	-2.5 to 2.5	Pass
				-10	3.85	1.116	0.0007	-2.5 to 2.5	Pass
				0	3.85	-1.445	-0.0008	-2.5 to 2.5	Pass
				10	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				30	3.85	7.167	0.0042	-2.5 to 2.5	Pass
				40	3.85	3.147	0.0018	-2.5 to 2.5	Pass
				50	3.85	0.172	0.0001	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-0.415	-0.0002	-2.5 to 2.5	Pass
					3.85	4.964	0.0029	-2.5 to 2.5	Pass
					4.43	-0.229	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.544	0.0003	-2.5 to 2.5	Pass
				-20	3.85	4.478	0.0026	-2.5 to 2.5	Pass
				-10	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-2.432	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				50	3.85	1.216	0.0007	-2.5 to 2.5	Pass
				20	3.27	9.542	0.0054	-2.5 to 2.5	Pass
					3.85	7.267	0.0041	-2.5 to 2.5	Pass
					4.43	-0.801	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	2.260	0.0013	-2.5 to 2.5	Pass
				-20	3.85	3.390	0.0019	-2.5 to 2.5	Pass
				-10	3.85	6.895	0.0039	-2.5 to 2.5	Pass
				0	3.85	5.937	0.0034	-2.5 to 2.5	Pass
				10	3.85	-1.574	-0.0009	-2.5 to 2.5	Pass
				30	3.85	3.161	0.0018	-2.5 to 2.5	Pass
				40	3.85	3.591	0.0020	-2.5 to 2.5	Pass
				50	3.85	3.748	0.0021	-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	2.990	0.0017	-2.5 to 2.5	Pass
					3.85	2.031	0.0012	-2.5 to 2.5	Pass
					4.43	2.418	0.0014	-2.5 to 2.5	Pass
				-30	3.85	3.233	0.0019	-2.5 to 2.5	Pass
				-20	3.85	0.358	0.0002	-2.5 to 2.5	Pass
				-10	3.85	5.021	0.0029	-2.5 to 2.5	Pass
				0	3.85	2.117	0.0012	-2.5 to 2.5	Pass
				10	3.85	4.892	0.0029	-2.5 to 2.5	Pass
				30	3.85	4.907	0.0029	-2.5 to 2.5	Pass
				40	3.85	5.364	0.0031	-2.5 to 2.5	Pass
				50	3.85	6.580	0.0038	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	2.875	0.0017	-2.5 to 2.5	Pass
					3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
					4.43	0.401	0.0002	-2.5 to 2.5	Pass
				-30	3.85	2.403	0.0014	-2.5 to 2.5	Pass
				-20	3.85	-4.535	-0.0026	-2.5 to 2.5	Pass

				-10	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.615	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-1.717	-0.0010	-2.5 to 2.5	Pass
				30	3.85	1.802	0.0010	-2.5 to 2.5	Pass
				40	3.85	2.060	0.0012	-2.5 to 2.5	Pass
				50	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	6.037	0.0034	-2.5 to 2.5	Pass
					3.85	0.901	0.0005	-2.5 to 2.5	Pass
					4.43	5.651	0.0032	-2.5 to 2.5	Pass
				-30	3.85	3.734	0.0021	-2.5 to 2.5	Pass
				-20	3.85	3.605	0.0021	-2.5 to 2.5	Pass
				-10	3.85	3.061	0.0017	-2.5 to 2.5	Pass
				0	3.85	7.253	0.0041	-2.5 to 2.5	Pass
				10	3.85	2.332	0.0013	-2.5 to 2.5	Pass
				30	3.85	6.909	0.0039	-2.5 to 2.5	Pass
				40	3.85	2.360	0.0013	-2.5 to 2.5	Pass
16QAM	1715	27	0	20	3.85	3.161	0.0018	-2.5 to 2.5	Pass
					3.27	6.137	0.0036	-2.5 to 2.5	Pass
					4.43	0.644	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				-20	3.85	4.721	0.0028	-2.5 to 2.5	Pass
				-10	3.85	3.619	0.0021	-2.5 to 2.5	Pass
				0	3.85	7.925	0.0046	-2.5 to 2.5	Pass
				10	3.85	0.544	0.0003	-2.5 to 2.5	Pass
				30	3.85	8.612	0.0050	-2.5 to 2.5	Pass
				40	3.85	1.960	0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.173	-0.0007	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.85	3.161	0.0018	-2.5 to 2.5	Pass
					3.27	1.230	0.0007	-2.5 to 2.5	Pass
					4.43	6.838	0.0039	-2.5 to 2.5	Pass
				-30	3.85	-2.332	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-1.216	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-2.217	-0.0013	-2.5 to 2.5	Pass
				0	3.85	4.120	0.0024	-2.5 to 2.5	Pass
				10	3.85	-8.655	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-2.933	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-8.283	-0.0048	-2.5 to 2.5	Pass
				50	3.85	-0.343	-0.0002	-2.5 to 2.5	Pass
	1750	27	23	20	3.85	2.160	0.0012	-2.5 to 2.5	Pass
					3.27	6.022	0.0034	-2.5 to 2.5	Pass
					4.43	5.393	0.0031	-2.5 to 2.5	Pass
				-30	3.85	-2.890	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				-10	3.85	3.219	0.0018	-2.5 to 2.5	Pass
				0	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				30	3.85	0.830	0.0005	-2.5 to 2.5	Pass
				40	3.85	2.789	0.0016	-2.5 to 2.5	Pass
				50	3.85	-0.658	-0.0004	-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	7.710	0.0045	-2.5 to 2.5	Pass
					3.85	6.251	0.0036	-2.5 to 2.5	Pass

					4.43	1.888	0.0011	-2.5 to 2.5	Pass
				-30	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				-20	3.85	0.286	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-1.645	-0.0010	-2.5 to 2.5	Pass
				0	3.85	1.860	0.0011	-2.5 to 2.5	Pass
				10	3.85	4.334	0.0025	-2.5 to 2.5	Pass
				30	3.85	4.292	0.0025	-2.5 to 2.5	Pass
				40	3.85	3.448	0.0020	-2.5 to 2.5	Pass
				50	3.85	6.795	0.0040	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-0.229	-0.0001	-2.5 to 2.5	Pass
					3.85	4.020	0.0023	-2.5 to 2.5	Pass
					4.43	3.433	0.0020	-2.5 to 2.5	Pass
				-30	3.85	3.591	0.0021	-2.5 to 2.5	Pass
				-20	3.85	4.649	0.0027	-2.5 to 2.5	Pass
				-10	3.85	5.393	0.0031	-2.5 to 2.5	Pass
				0	3.85	5.364	0.0031	-2.5 to 2.5	Pass
				10	3.85	4.807	0.0028	-2.5 to 2.5	Pass
				30	3.85	5.193	0.0030	-2.5 to 2.5	Pass
				40	3.85	4.950	0.0029	-2.5 to 2.5	Pass
				50	3.85	3.633	0.0021	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-1.974	-0.0011	-2.5 to 2.5	Pass
					3.85	2.131	0.0012	-2.5 to 2.5	Pass
					4.43	0.086	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-1.373	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	1.631	0.0009	-2.5 to 2.5	Pass
				-10	3.85	2.189	0.0013	-2.5 to 2.5	Pass
				0	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				10	3.85	-1.416	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				40	3.85	0.558	0.0003	-2.5 to 2.5	Pass
				50	3.85	1.345	0.0008	-2.5 to 2.5	Pass
16QAM	1717.5	27	0	20	3.27	9.127	0.0053	-2.5 to 2.5	Pass
					3.85	3.891	0.0023	-2.5 to 2.5	Pass
					4.43	3.262	0.0019	-2.5 to 2.5	Pass
				-30	3.85	3.290	0.0019	-2.5 to 2.5	Pass
				-20	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	2.904	0.0017	-2.5 to 2.5	Pass
				0	3.85	-1.044	-0.0006	-2.5 to 2.5	Pass
				10	3.85	4.177	0.0024	-2.5 to 2.5	Pass
				30	3.85	-5.236	-0.0030	-2.5 to 2.5	Pass
				40	3.85	1.073	0.0006	-2.5 to 2.5	Pass
				50	3.85	2.975	0.0017	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	6.280	0.0036	-2.5 to 2.5	Pass
					3.85	5.450	0.0031	-2.5 to 2.5	Pass
					4.43	2.689	0.0016	-2.5 to 2.5	Pass
				-30	3.85	3.176	0.0018	-2.5 to 2.5	Pass
				-20	3.85	8.411	0.0049	-2.5 to 2.5	Pass
				-10	3.85	8.812	0.0051	-2.5 to 2.5	Pass
				0	3.85	0.815	0.0005	-2.5 to 2.5	Pass
				10	3.85	2.446	0.0014	-2.5 to 2.5	Pass
				30	3.85	5.608	0.0032	-2.5 to 2.5	Pass
				40	3.85	3.362	0.0019	-2.5 to 2.5	Pass
				50	3.85	1.230	0.0007	-2.5 to 2.5	Pass
	1747.5	27	48	20	3.27	9.012	0.0052	-2.5 to 2.5	Pass
					3.85	5.436	0.0031	-2.5 to 2.5	Pass
					4.43	5.350	0.0031	-2.5 to 2.5	Pass
				-30	3.85	3.061	0.0018	-2.5 to 2.5	Pass
				-20	3.85	3.719	0.0021	-2.5 to 2.5	Pass
				-10	3.85	7.467	0.0043	-2.5 to 2.5	Pass

				0	3.85	5.136	0.0029	-2.5 to 2.5	Pass
				10	3.85	9.427	0.0054	-2.5 to 2.5	Pass
				30	3.85	1.774	0.0010	-2.5 to 2.5	Pass
				40	3.85	2.146	0.0012	-2.5 to 2.5	Pass
				50	3.85	5.121	0.0029	-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	2.446	0.0014	-2.5 to 2.5	Pass
					3.85	0.658	0.0004	-2.5 to 2.5	Pass
					4.43	-1.144	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	1.445	0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.486	0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				10	3.85	2.117	0.0012	-2.5 to 2.5	Pass
				30	3.85	5.236	0.0030	-2.5 to 2.5	Pass
				40	3.85	4.206	0.0024	-2.5 to 2.5	Pass
				50	3.85	0.801	0.0005	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-4.435	-0.0026	-2.5 to 2.5	Pass
					3.85	-0.958	-0.0006	-2.5 to 2.5	Pass
					4.43	-0.572	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-1.917	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-1.631	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-2.317	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.388	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-1.473	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
				50	3.85	1.688	0.0010	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	4.249	0.0024	-2.5 to 2.5	Pass
					3.85	3.405	0.0020	-2.5 to 2.5	Pass
					4.43	3.633	0.0021	-2.5 to 2.5	Pass
				-30	3.85	2.232	0.0013	-2.5 to 2.5	Pass
				-20	3.85	1.788	0.0010	-2.5 to 2.5	Pass
				-10	3.85	6.466	0.0037	-2.5 to 2.5	Pass
				0	3.85	3.462	0.0020	-2.5 to 2.5	Pass
				10	3.85	2.947	0.0017	-2.5 to 2.5	Pass
				30	3.85	3.619	0.0021	-2.5 to 2.5	Pass
				40	3.85	2.303	0.0013	-2.5 to 2.5	Pass
				50	3.85	3.505	0.0020	-2.5 to 2.5	Pass
16QAM	1720	27	0	20	3.27	-1.945	-0.0011	-2.5 to 2.5	Pass
					3.85	-1.659	-0.0010	-2.5 to 2.5	Pass
					4.43	-2.403	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-3.119	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
				0	3.85	1.931	0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				30	3.85	5.107	0.0030	-2.5 to 2.5	Pass
				40	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				50	3.85	2.017	0.0012	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	-3.376	-0.0019	-2.5 to 2.5	Pass
					3.85	-4.549	-0.0026	-2.5 to 2.5	Pass
					4.43	-1.202	-0.0007	-2.5 to 2.5	Pass

				-30	3.85	-5.379	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	2.975	0.0017	-2.5 to 2.5	Pass
				-10	3.85	-1.974	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				40	3.85	-1.631	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-2.432	-0.0014	-2.5 to 2.5	Pass
	1745	27	73	20	3.27	3.204	0.0018	-2.5 to 2.5	Pass
					3.85	5.035	0.0029	-2.5 to 2.5	Pass
					4.43	8.297	0.0048	-2.5 to 2.5	Pass
				-30	3.85	7.539	0.0043	-2.5 to 2.5	Pass
				-20	3.85	5.007	0.0029	-2.5 to 2.5	Pass
				-10	3.85	3.476	0.0020	-2.5 to 2.5	Pass
				0	3.85	4.377	0.0025	-2.5 to 2.5	Pass
				10	3.85	2.260	0.0013	-2.5 to 2.5	Pass
				30	3.85	2.732	0.0016	-2.5 to 2.5	Pass
				40	3.85	3.605	0.0021	-2.5 to 2.5	Pass
				50	3.85	4.849	0.0028	-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 / 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 / NTV						
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	
OPSK	1732.5	50	0	Refer To Test Graph		Pass

16QAM	1732.5	27	0	Refer To Test Graph	Pass
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3.1.5 B4_15MHz

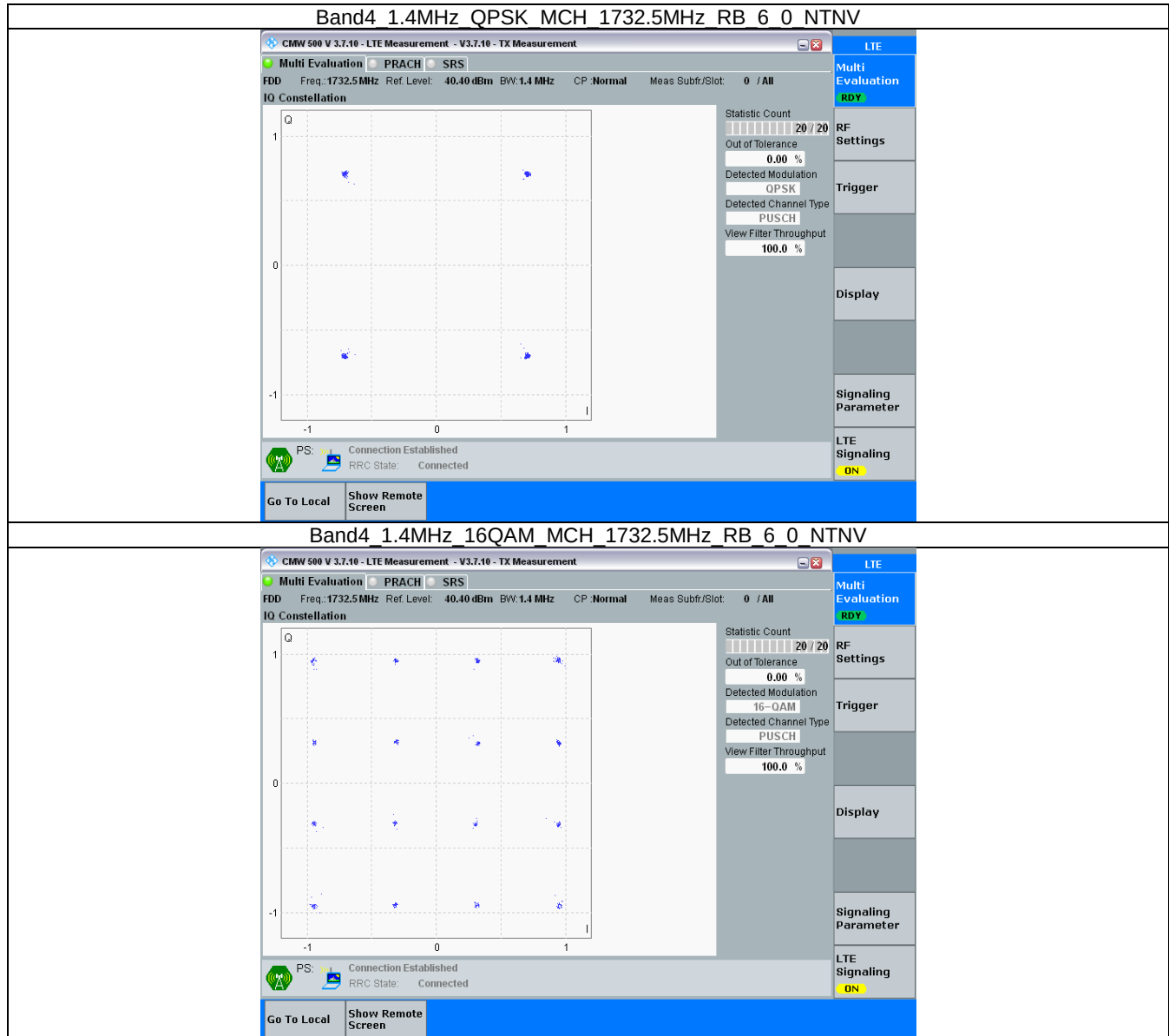
Band: 4 / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

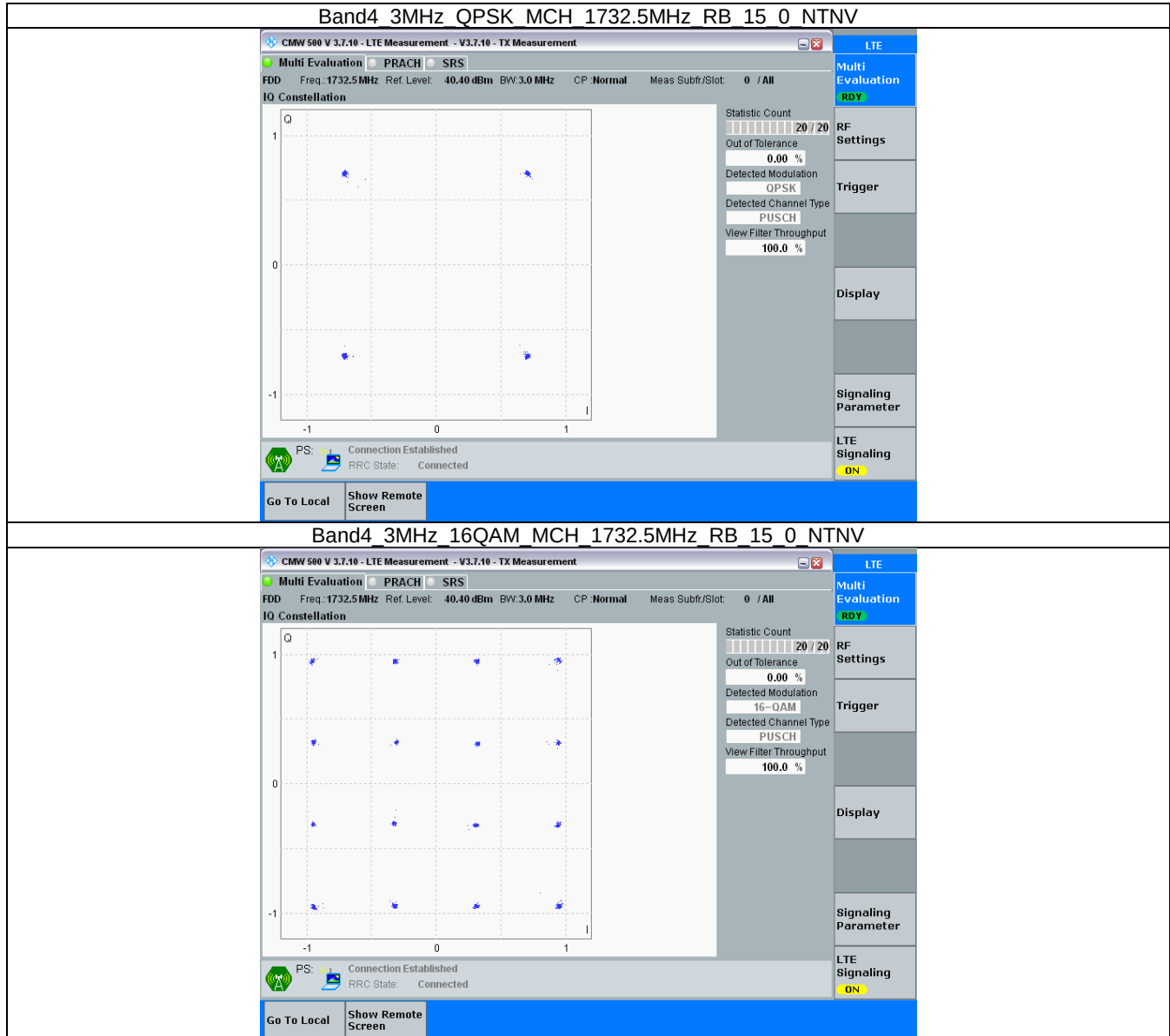
Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.2 Test Graph

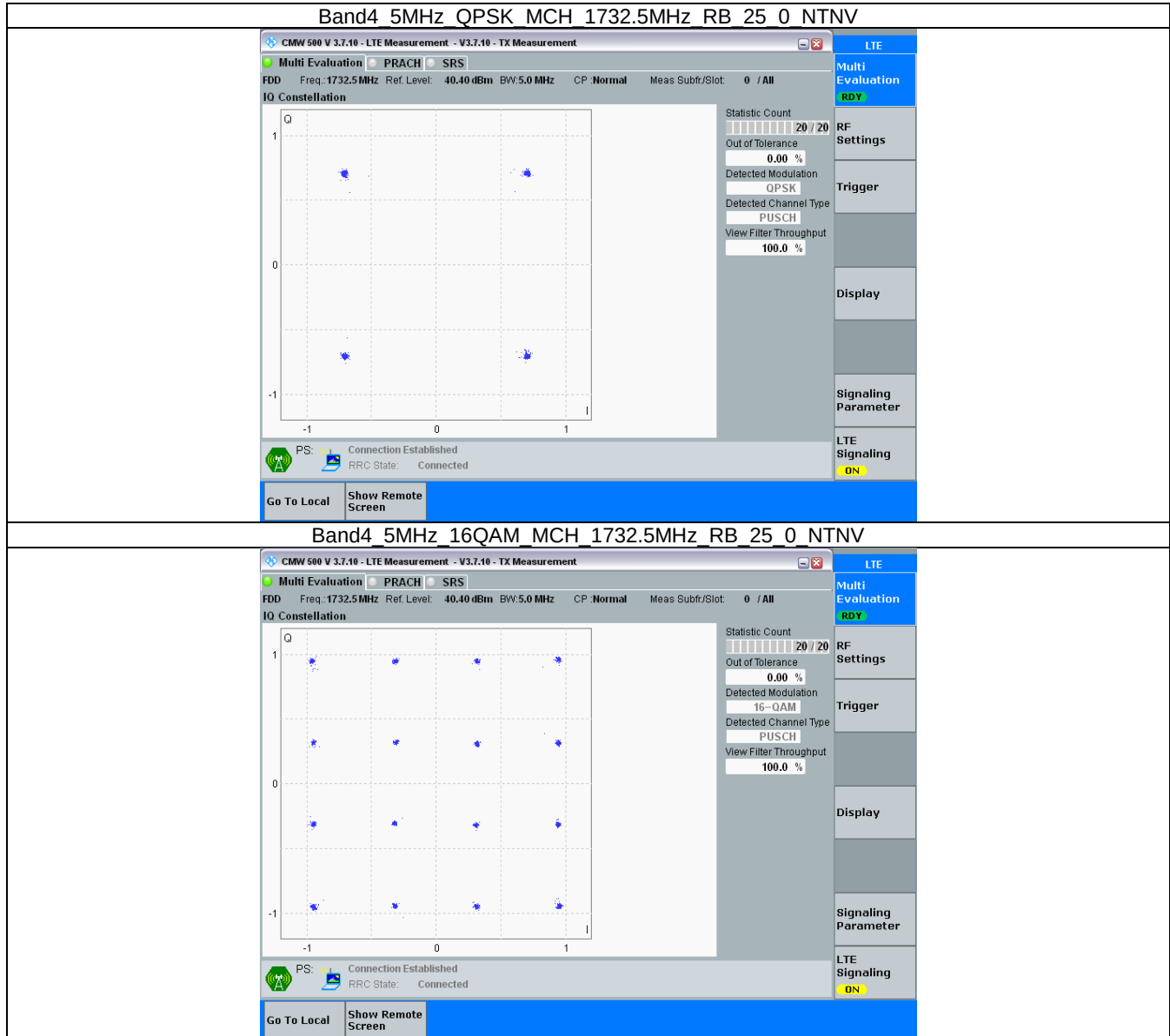
3.2.1 B4_1.4MHz



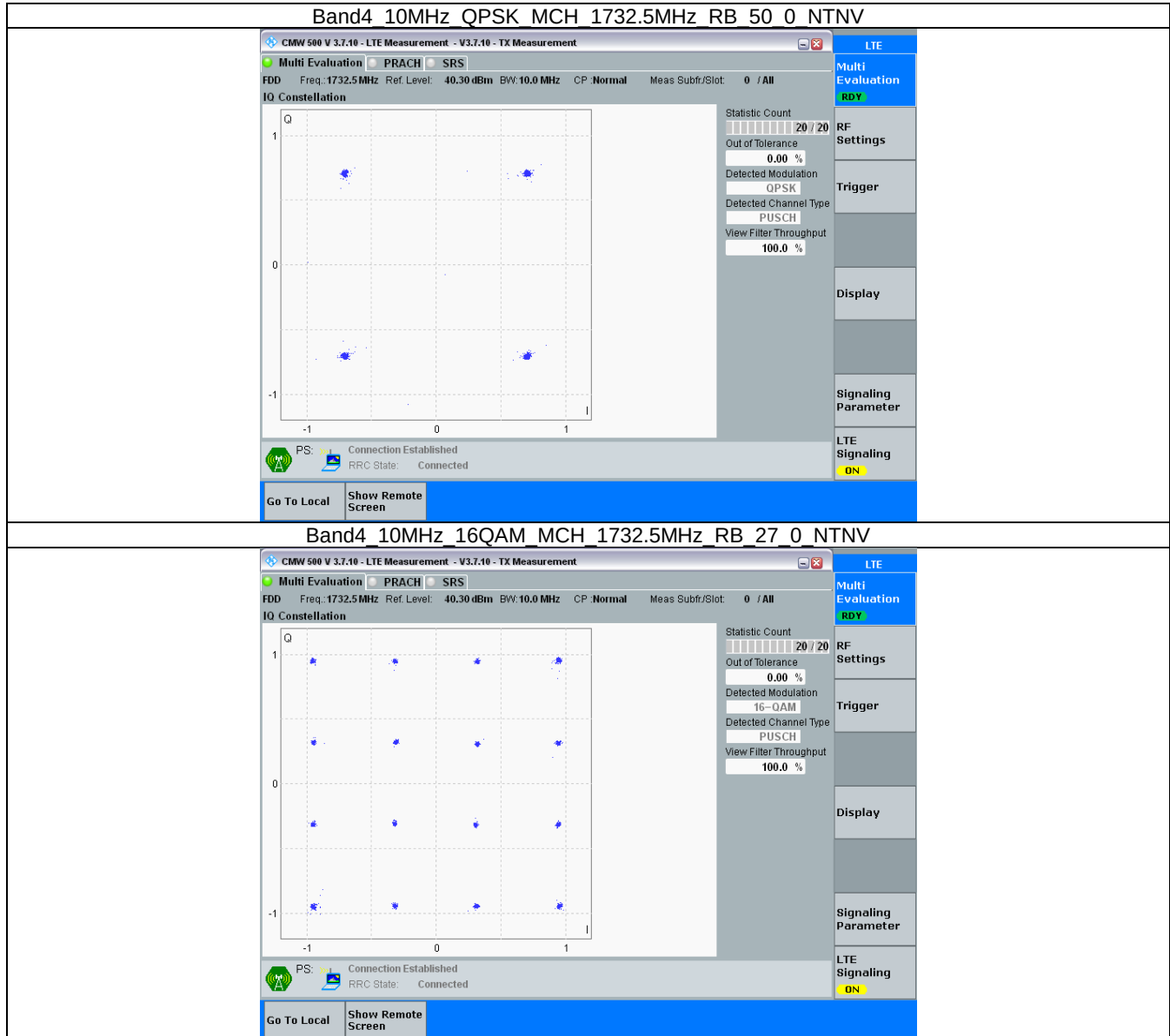
3.2.2 B4_3MHz



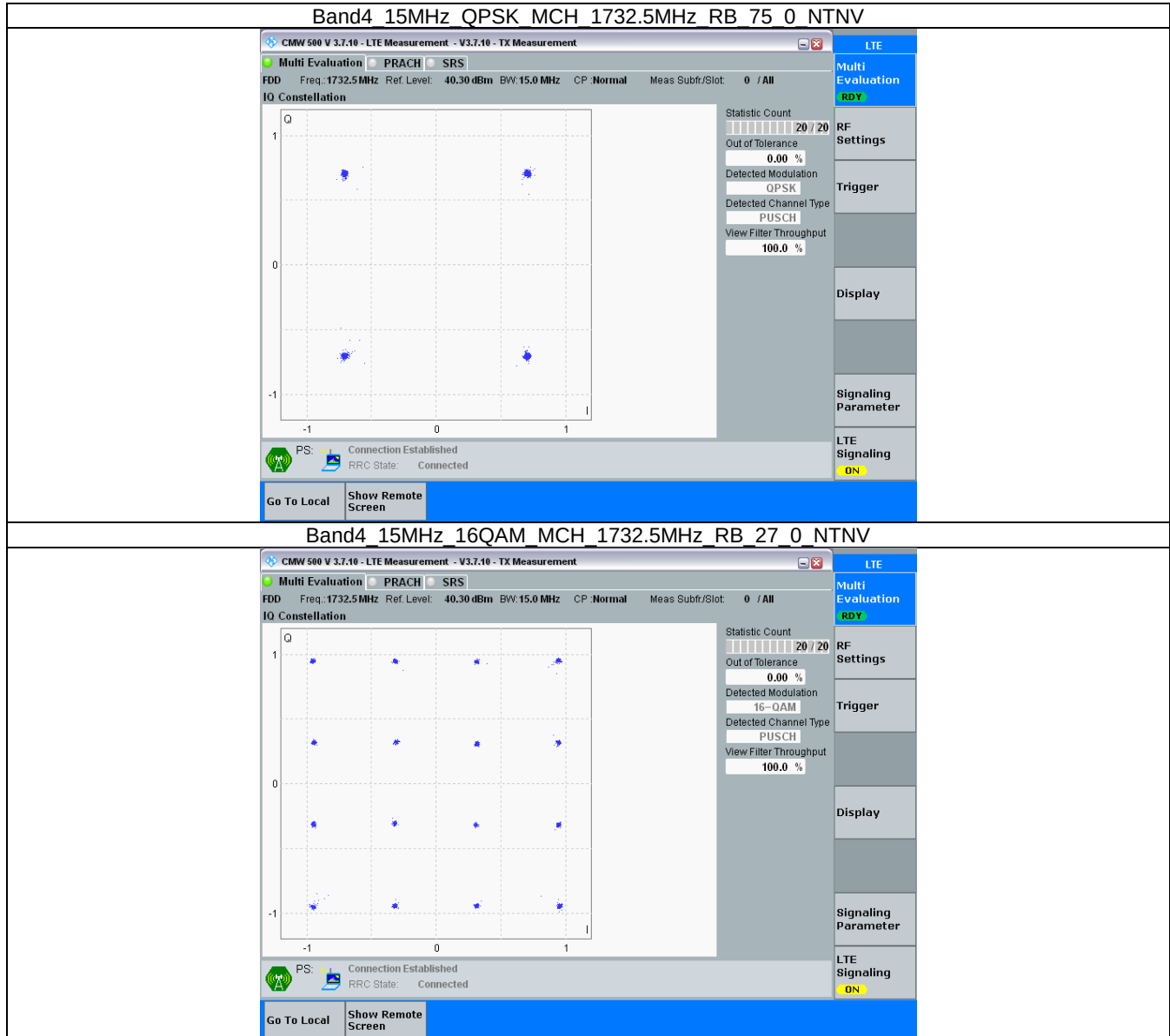
3.2.3 B4_5MHz



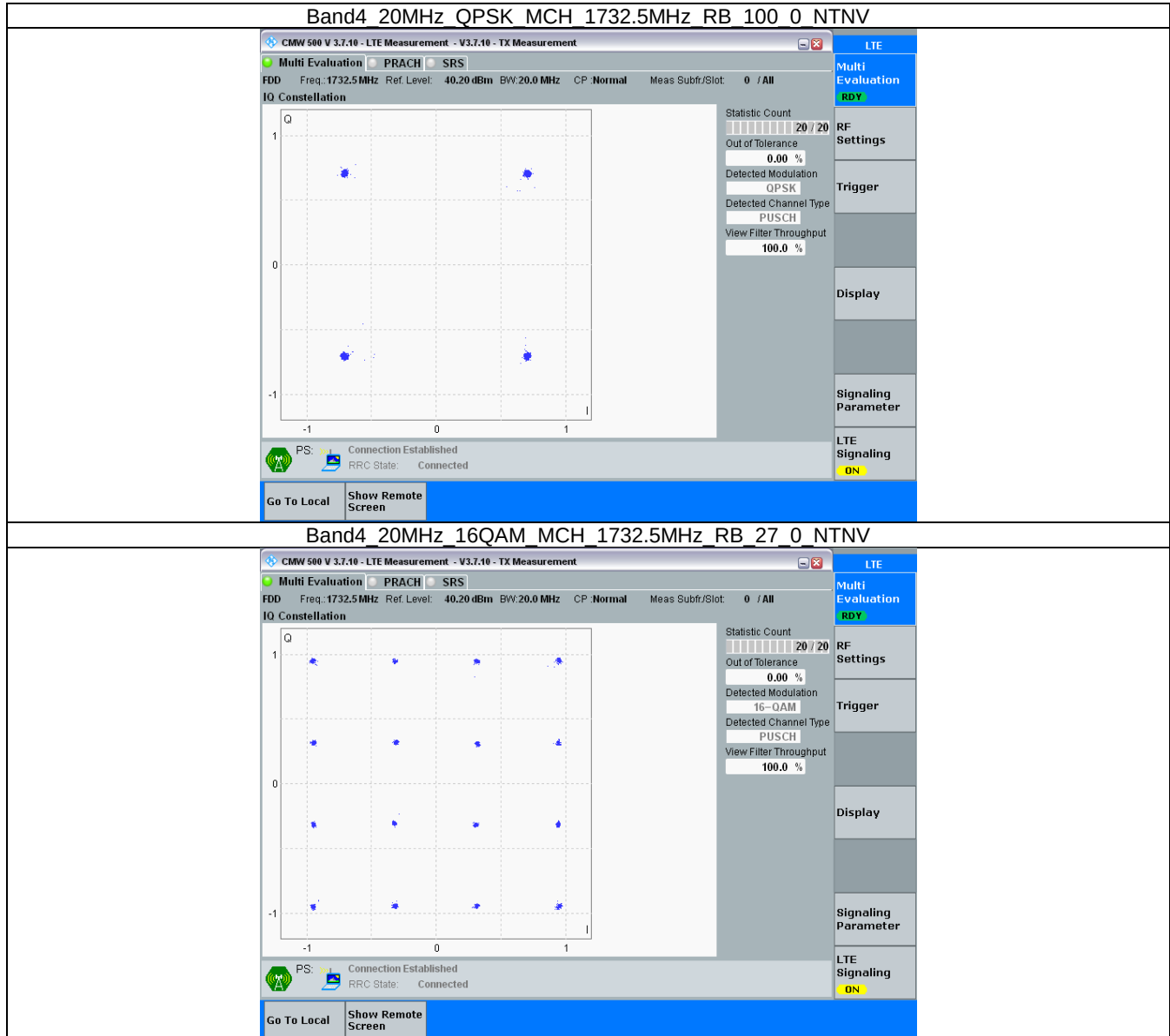
3.2.4 B4_10MHz



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	1.090	/	Pass
		1732.5	6	0	1.087	/	Pass
		1754.3	6	0	1.084	/	Pass
	16QAM	1710.7	6	0	1.088	/	Pass
		1732.5	6	0	1.082	/	Pass
		1754.3	6	0	1.089	/	Pass
3	QPSK	1711.5	15	0	2.683	/	Pass
		1732.5	15	0	2.682	/	Pass
		1753.5	15	0	2.683	/	Pass
	16QAM	1711.5	15	0	2.682	/	Pass
		1732.5	15	0	2.677	/	Pass
		1753.5	15	0	2.681	/	Pass
5	QPSK	1712.5	25	0	4.505	/	Pass
		1732.5	25	0	4.524	/	Pass
		1752.5	25	0	4.503	/	Pass
	16QAM	1712.5	25	0	4.519	/	Pass
		1732.5	25	0	4.539	/	Pass
		1752.5	25	0	4.496	/	Pass
10	QPSK	1715	50	0	8.971	/	Pass
		1732.5	50	0	8.944	/	Pass
		1750	50	0	8.961	/	Pass
	16QAM	1715	27	0	4.913	/	Pass
		1732.5	27	0	4.890	/	Pass
		1750	27	23	4.884	/	Pass
15	QPSK	1717.5	75	0	13.436	/	Pass
		1732.5	75	0	13.418	/	Pass
		1747.5	75	0	13.448	/	Pass
	16QAM	1717.5	27	0	4.942	/	Pass
		1732.5	27	0	4.898	/	Pass
		1747.5	27	48	4.909	/	Pass
20	QPSK	1720	100	0	17.881	/	Pass
		1732.5	100	0	17.852	/	Pass
		1745	100	0	17.893	/	Pass
	16QAM	1720	27	0	4.925	/	Pass
		1732.5	27	0	4.906	/	Pass
		1745	27	73	4.917	/	Pass

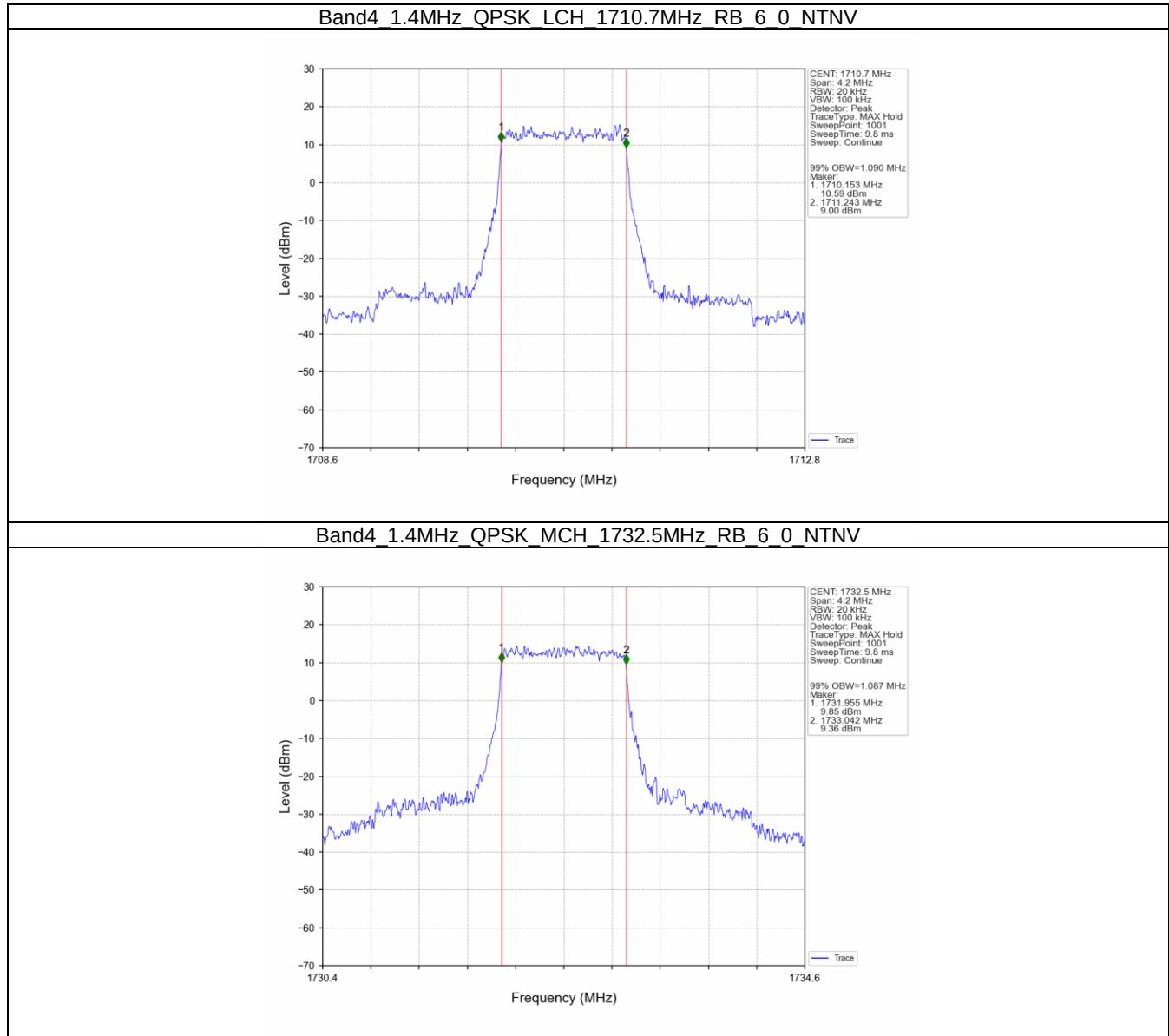
4.1.2 Band4_XDB

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	1.251	/	Pass
		1732.5	6	0	1.274	/	Pass
		1754.3	6	0	1.253	/	Pass

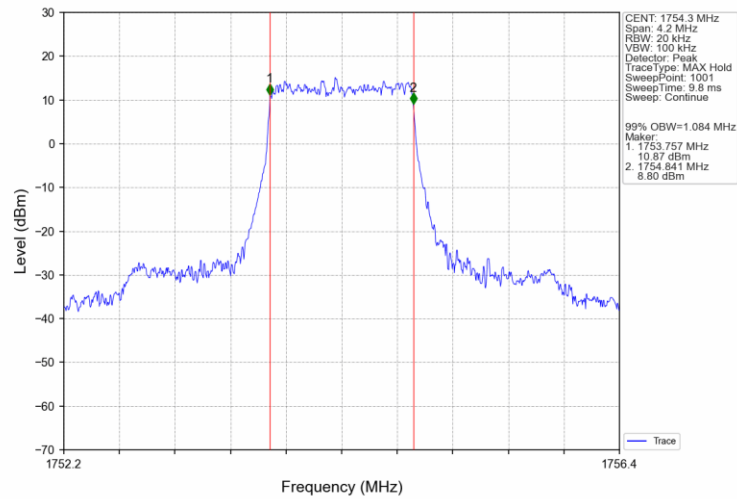
	16QAM	1710.7	6	0	1.278	/	Pass
		1732.5	6	0	1.243	/	Pass
		1754.3	6	0	1.285	/	Pass
3	QPSK	1711.5	15	0	2.889	/	Pass
		1732.5	15	0	2.884	/	Pass
		1753.5	15	0	2.883	/	Pass
	16QAM	1711.5	15	0	2.889	/	Pass
		1732.5	15	0	2.886	/	Pass
		1753.5	15	0	2.879	/	Pass
5	QPSK	1712.5	25	0	4.918	/	Pass
		1732.5	25	0	4.964	/	Pass
		1752.5	25	0	4.927	/	Pass
	16QAM	1712.5	25	0	5.008	/	Pass
		1732.5	25	0	4.996	/	Pass
		1752.5	25	0	4.926	/	Pass
10	QPSK	1715	50	0	9.652	/	Pass
		1732.5	50	0	9.577	/	Pass
		1750	50	0	9.591	/	Pass
	16QAM	1715	27	0	5.724	/	Pass
		1732.5	27	0	5.620	/	Pass
		1750	27	23	5.698	/	Pass
15	QPSK	1717.5	75	0	14.556	/	Pass
		1732.5	75	0	14.432	/	Pass
		1747.5	75	0	14.576	/	Pass
	16QAM	1717.5	27	0	6.036	/	Pass
		1732.5	27	0	5.822	/	Pass
		1747.5	27	48	5.793	/	Pass
20	QPSK	1720	100	0	19.178	/	Pass
		1732.5	100	0	18.997	/	Pass
		1745	100	0	19.037	/	Pass
	16QAM	1720	27	0	5.782	/	Pass
		1732.5	27	0	5.890	/	Pass
		1745	27	73	5.900	/	Pass

4.2 Test Graph

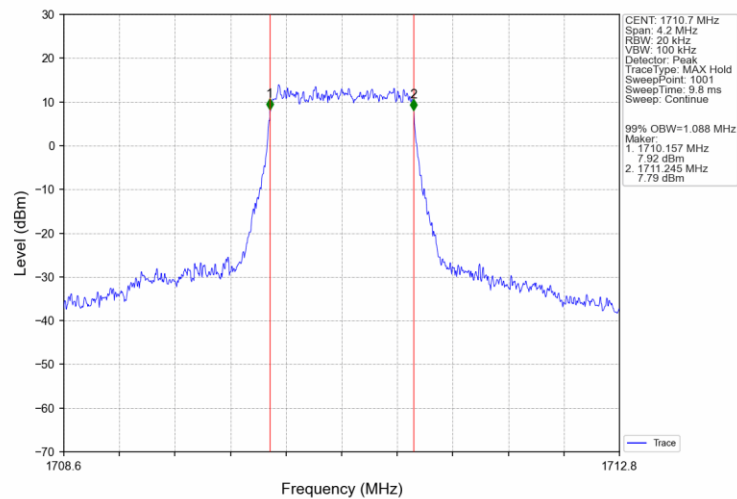
4.2.1 Band4_OBW



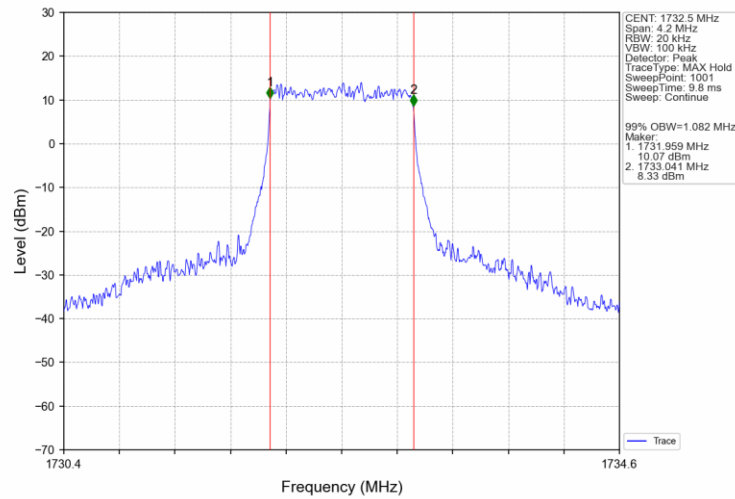
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



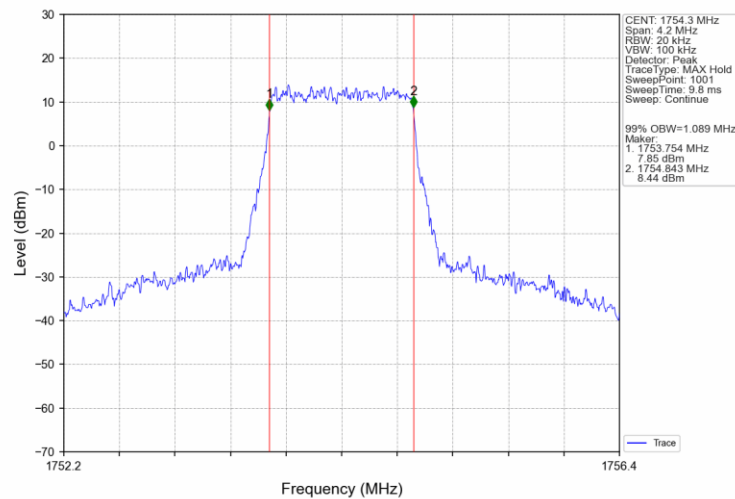
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



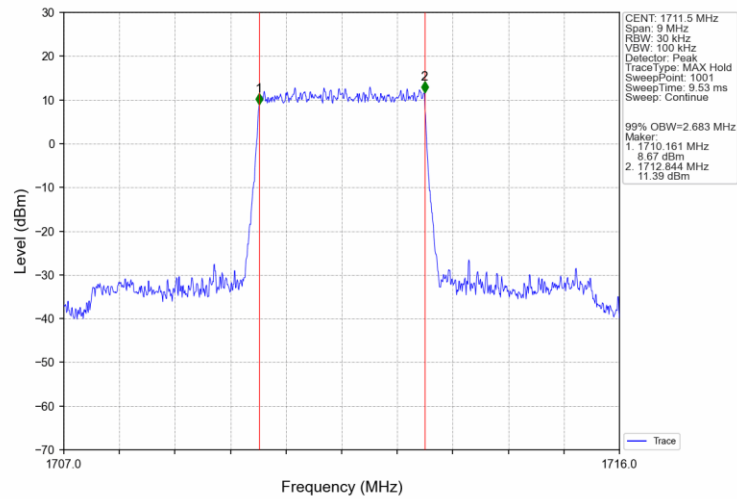
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



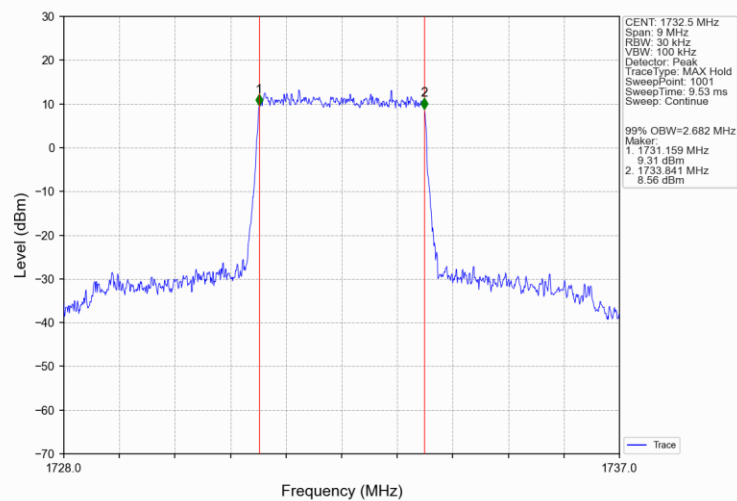
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



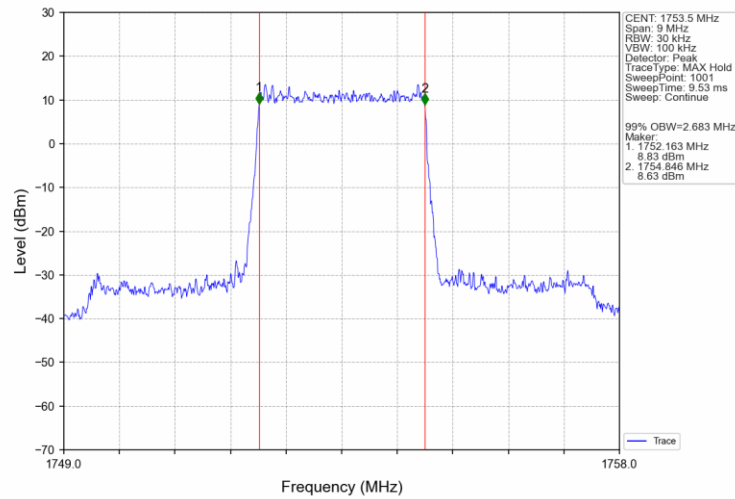
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV



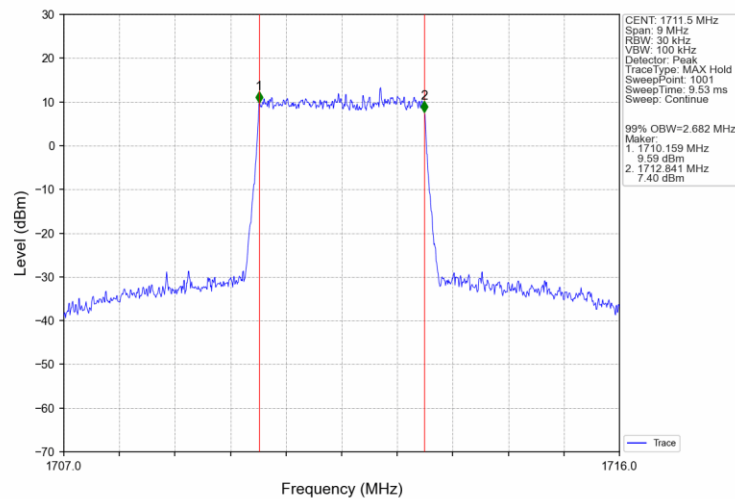
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTNV



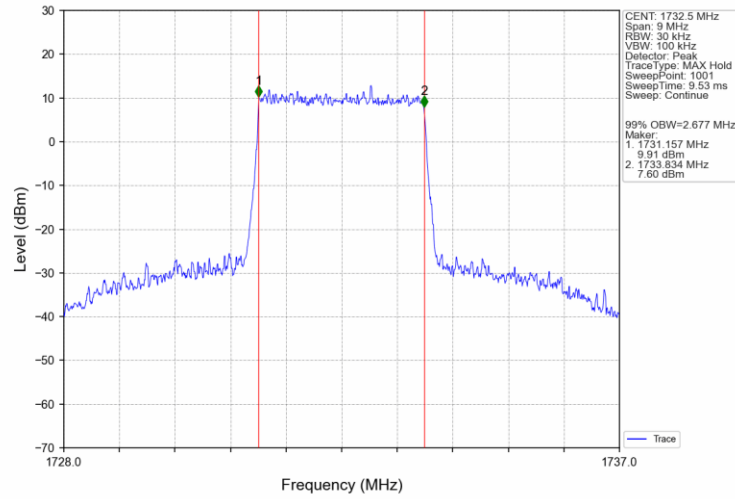
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



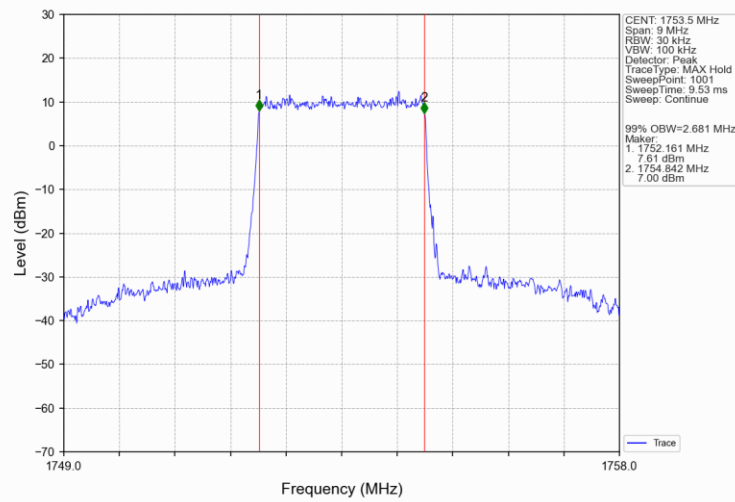
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTV



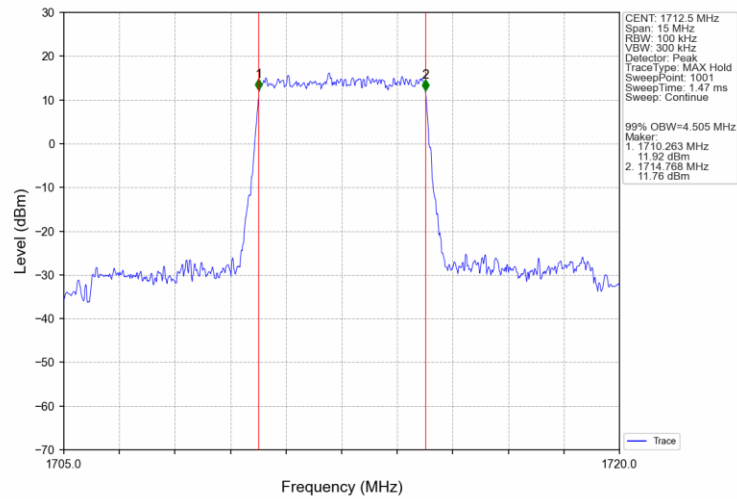
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



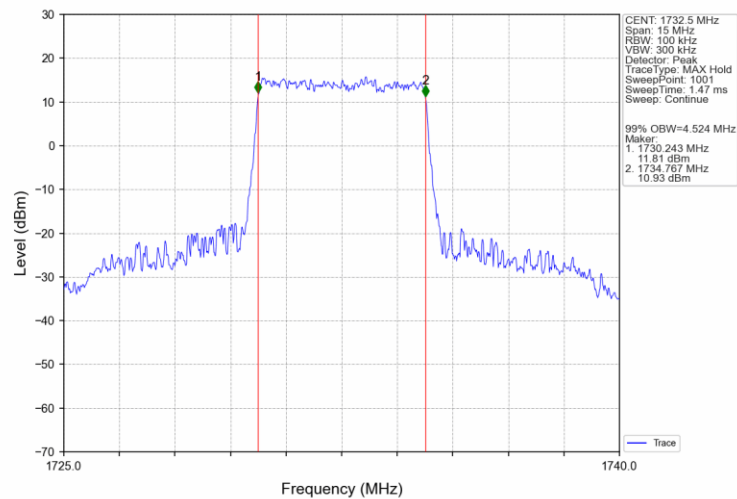
Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



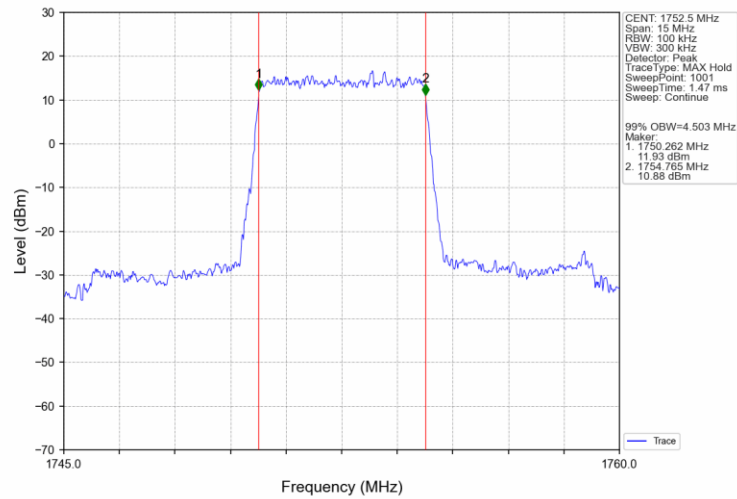
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



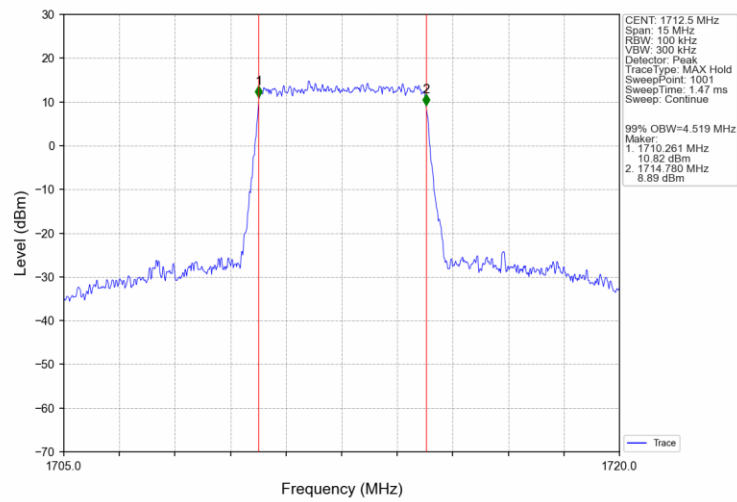
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTNV



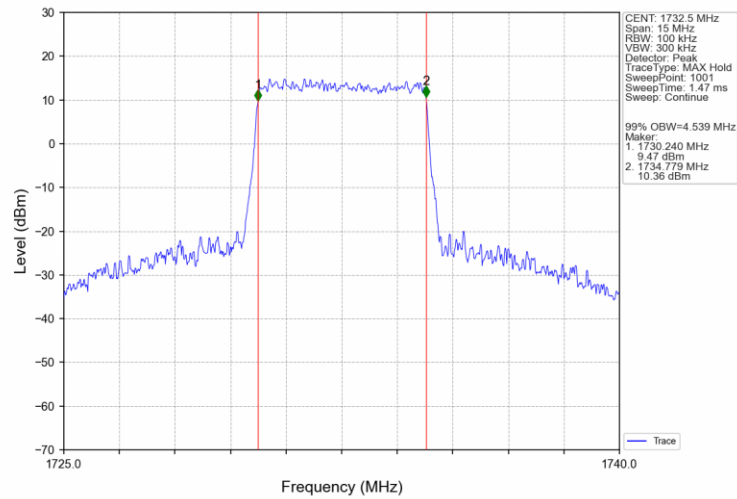
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTV



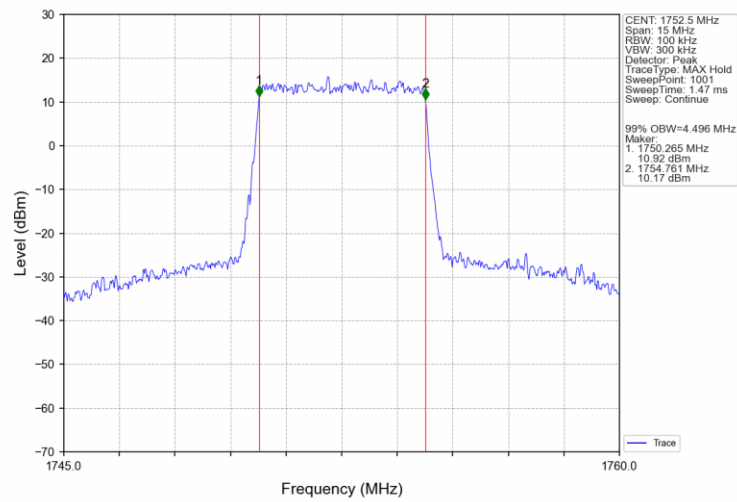
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTV



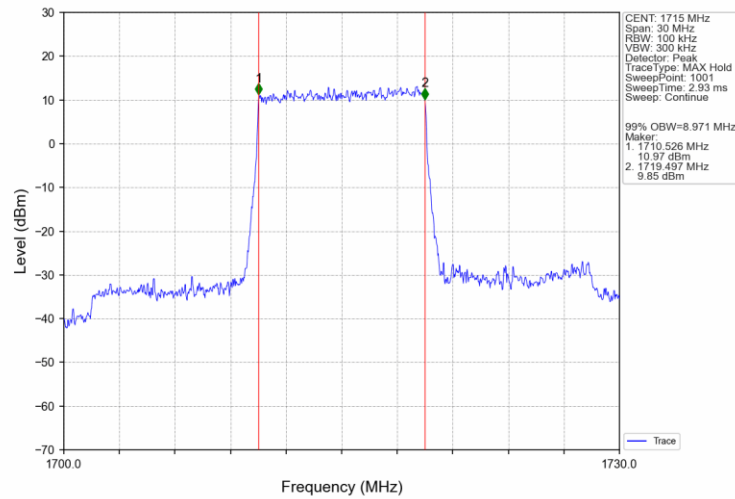
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



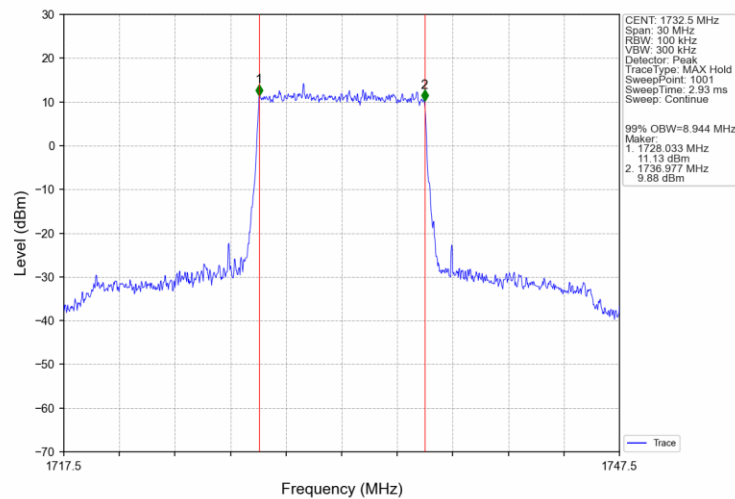
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



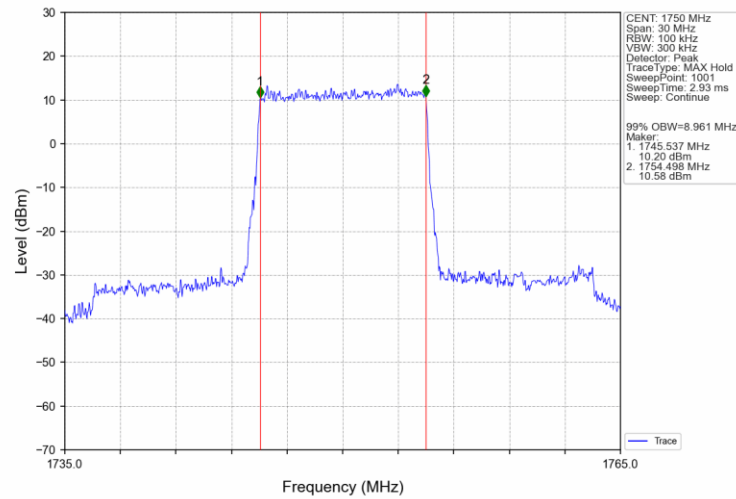
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTN



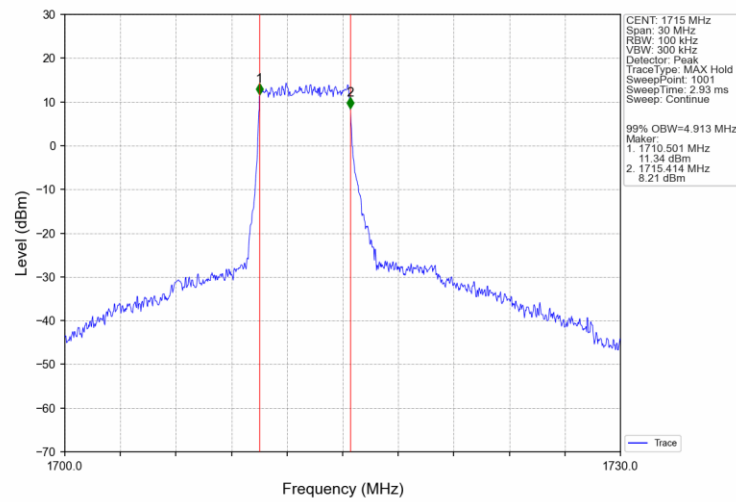
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTN



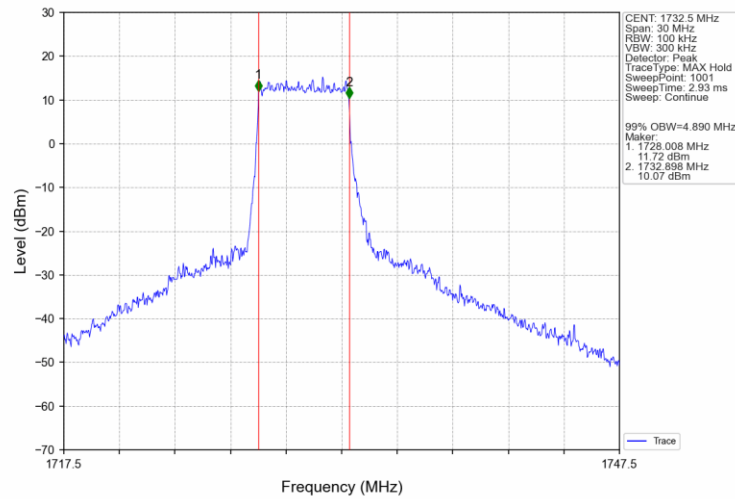
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



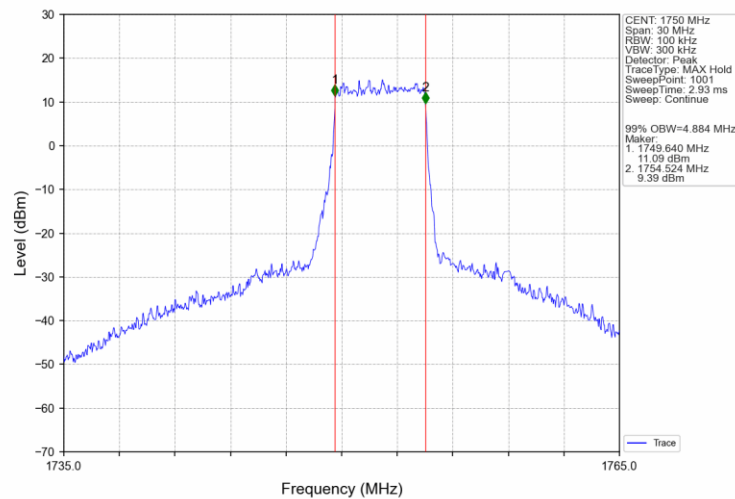
Band4 10MHz 16QAM LCH 1715MHz RB 27 0 NTNV



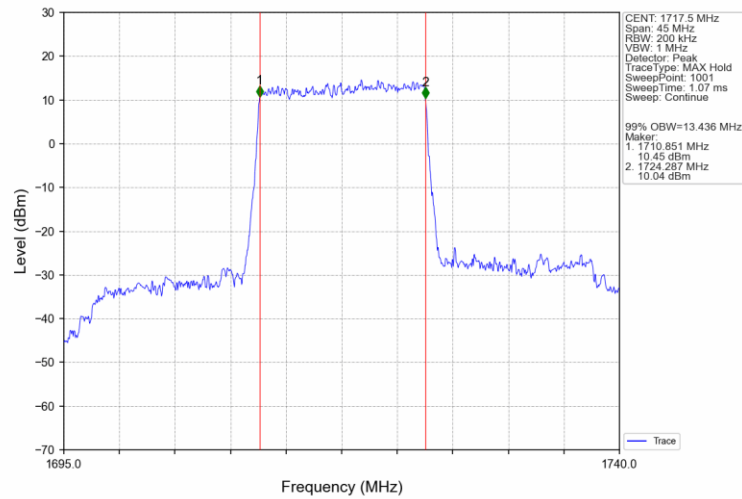
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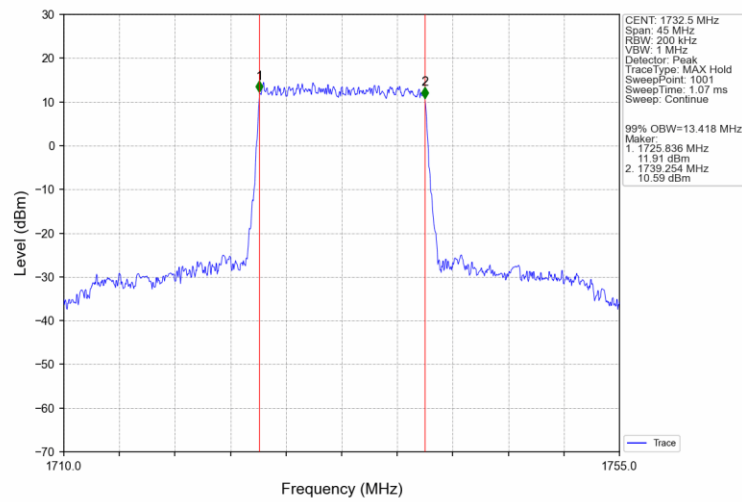
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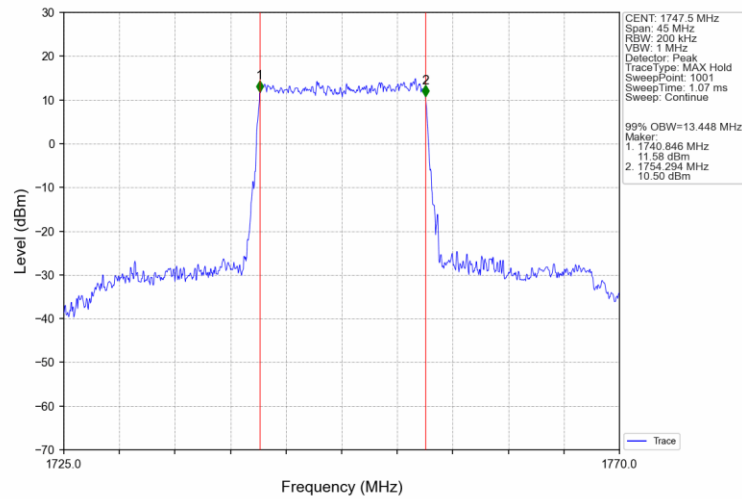
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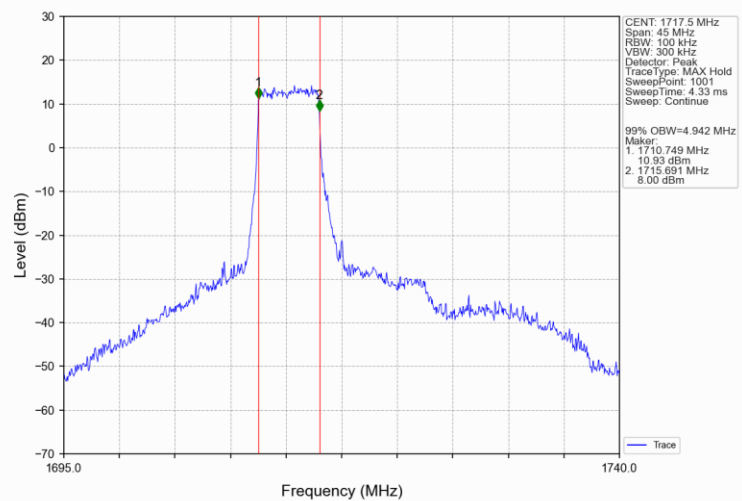
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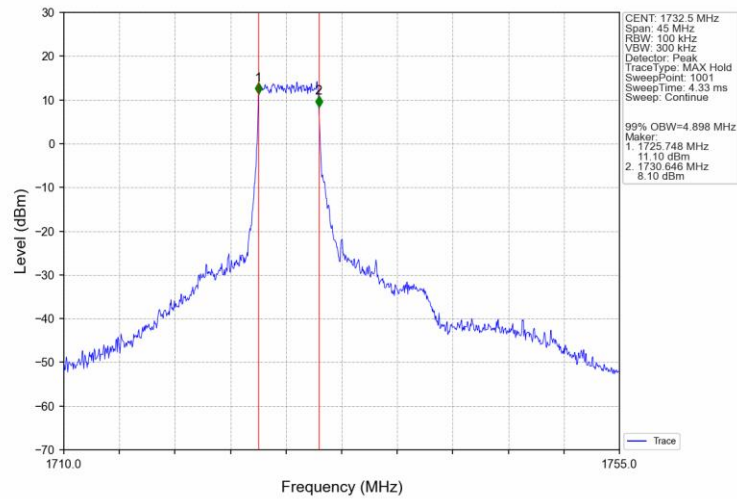
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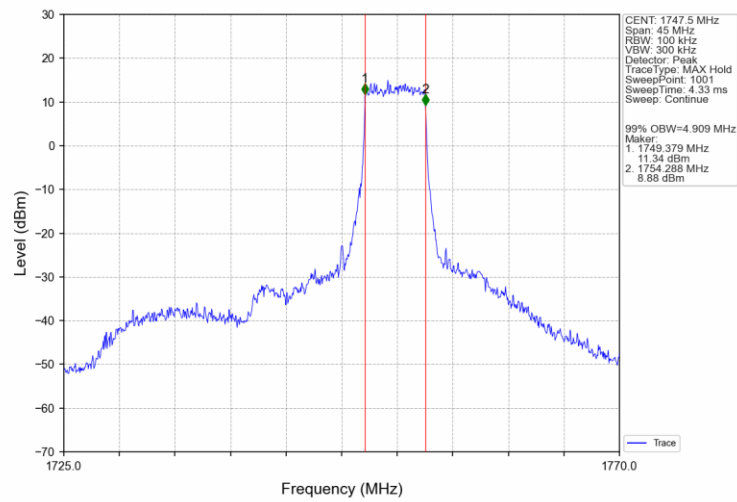
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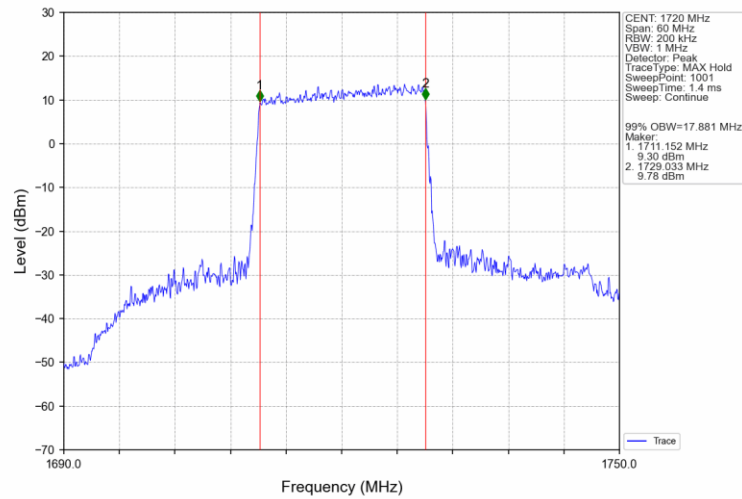
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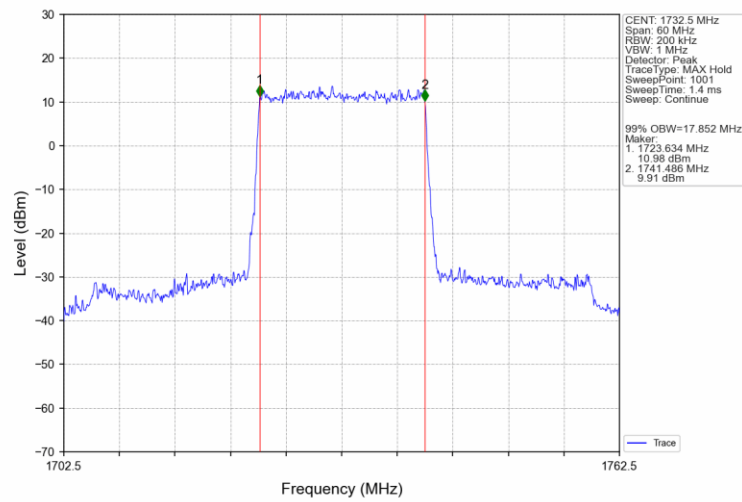
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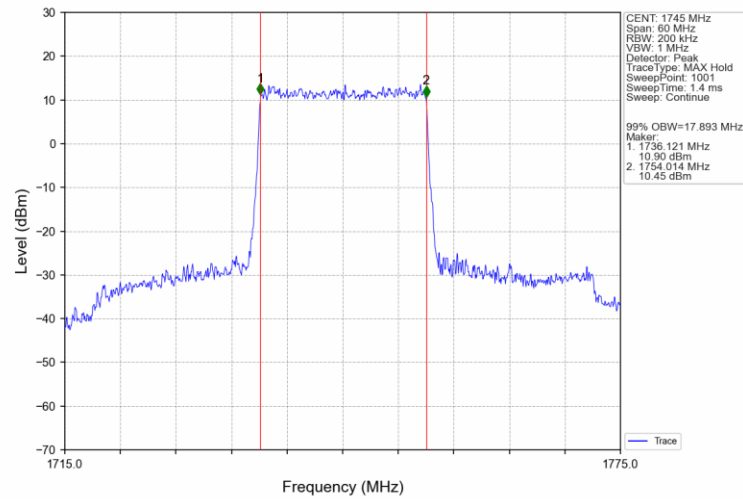
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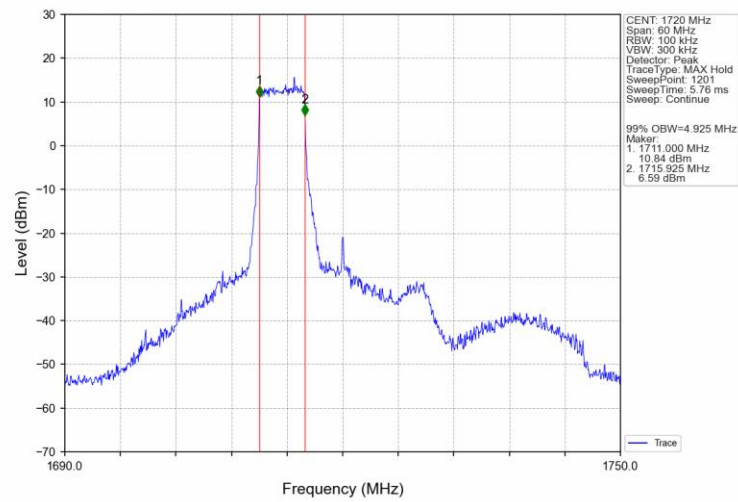
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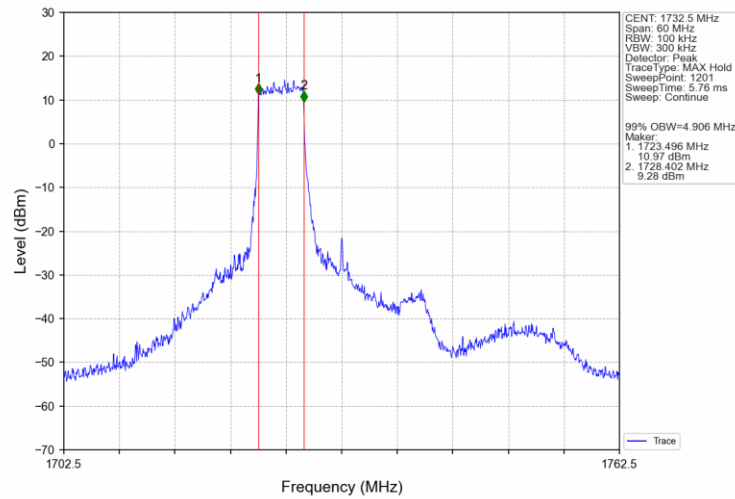
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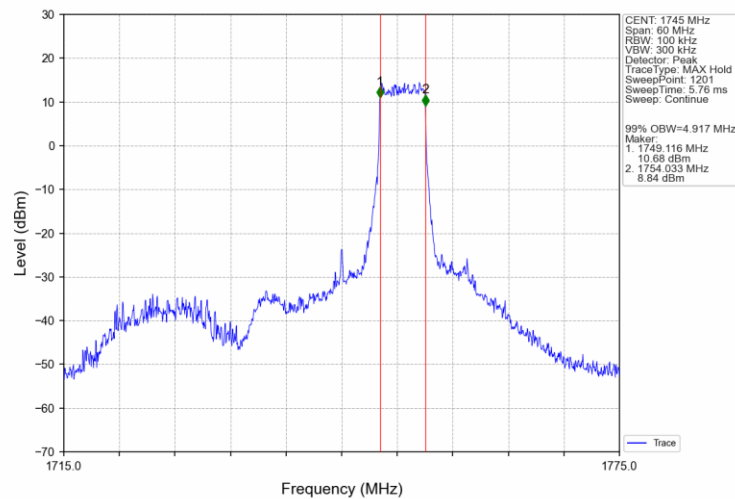
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Band4 20MHz 16QAM MCH 1732.5MHz RB 27 0 NTN

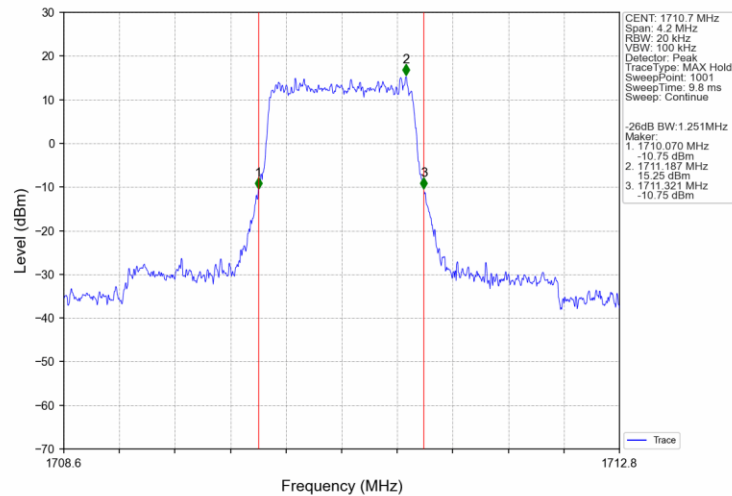


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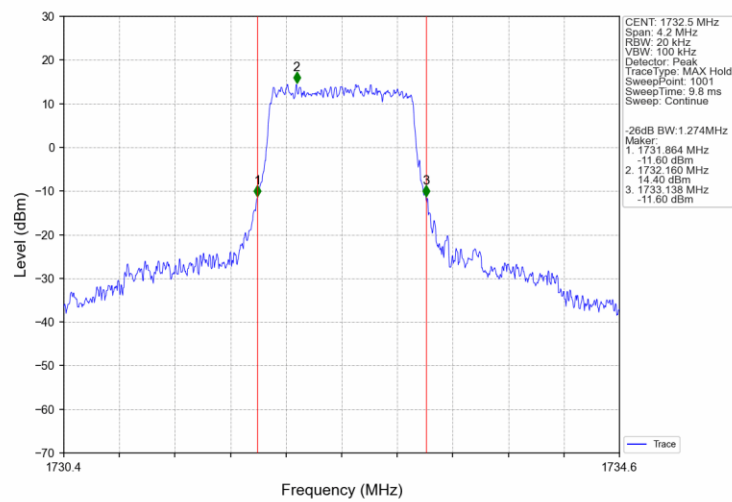


4.2.2 Band4_XDB

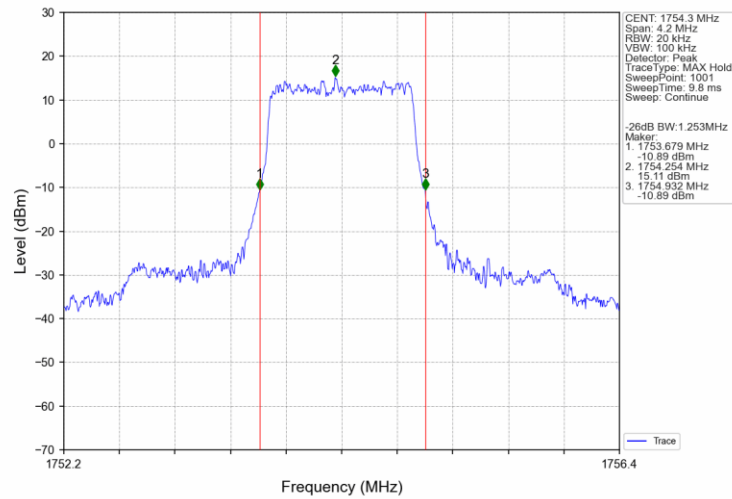
Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTV



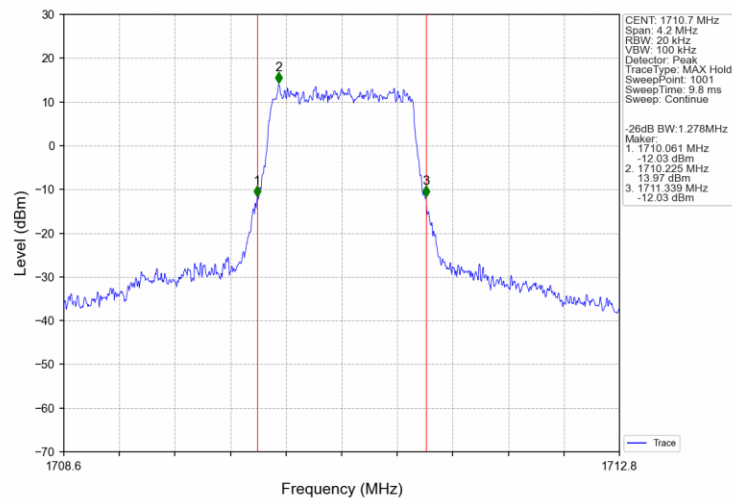
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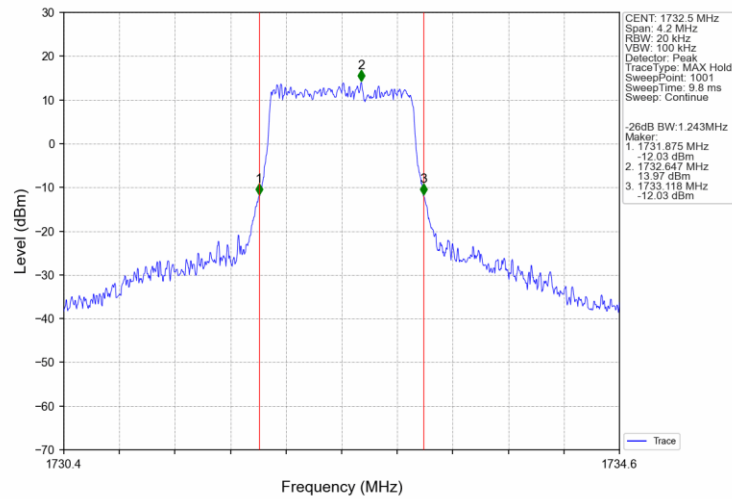
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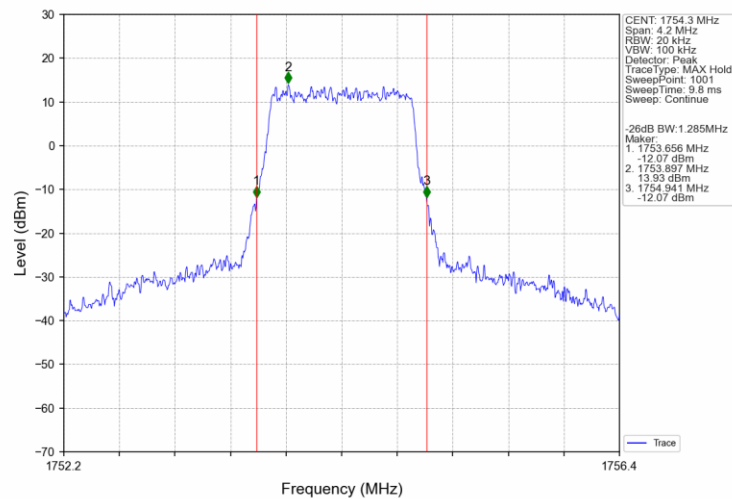
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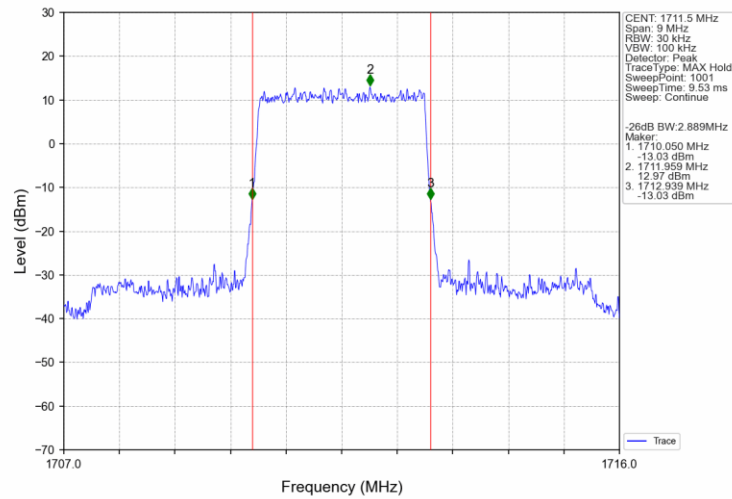
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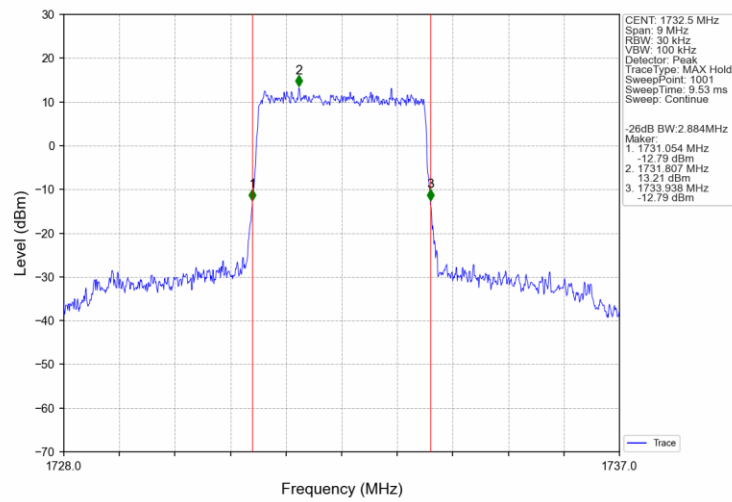
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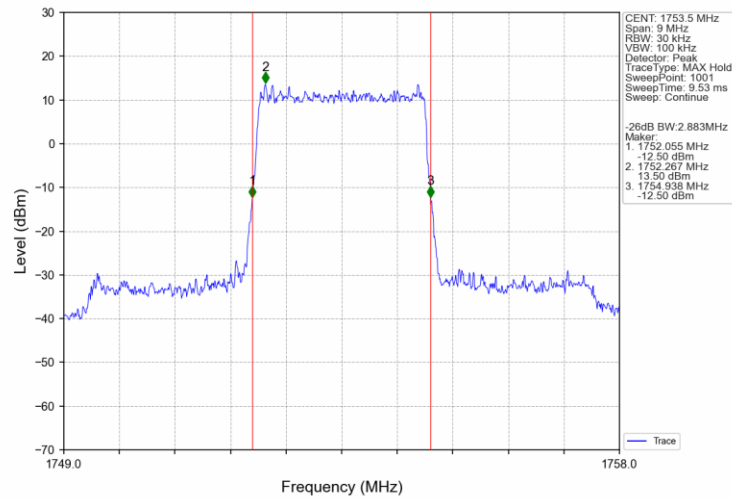
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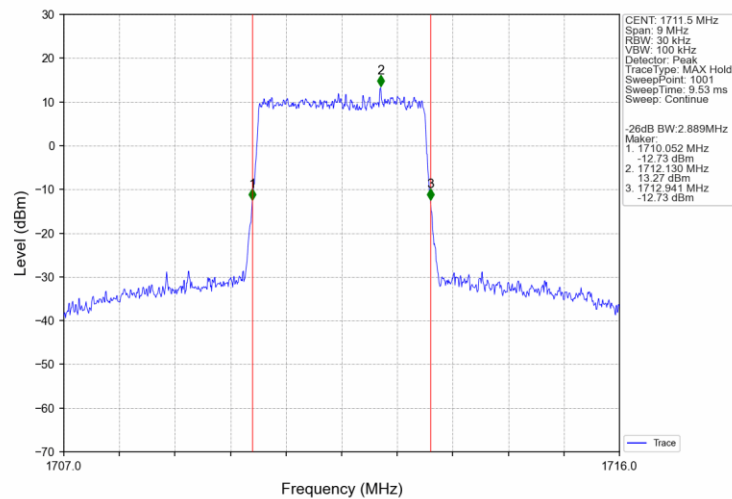
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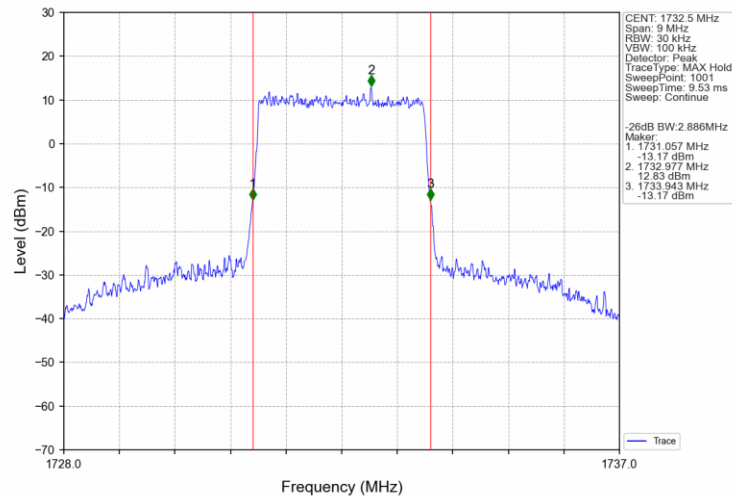
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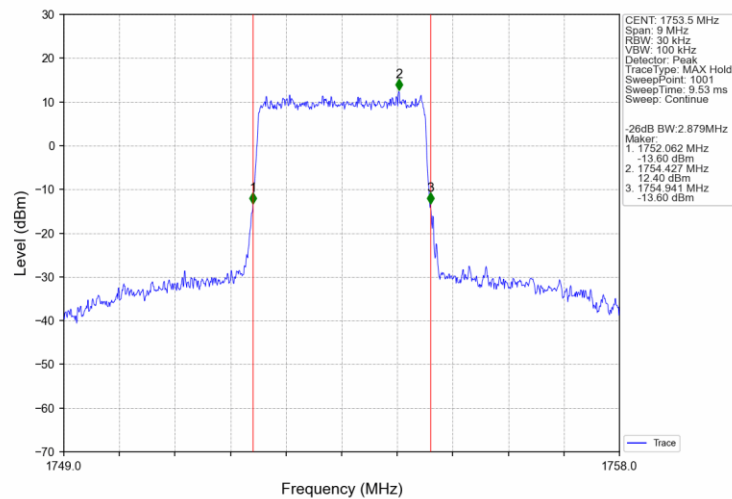
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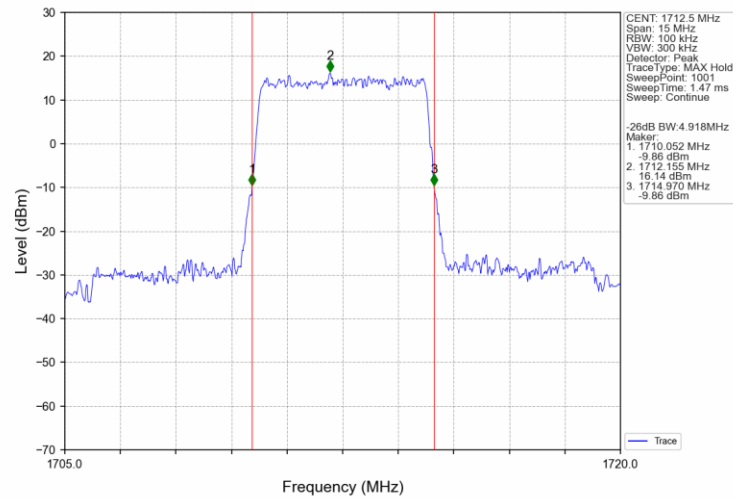
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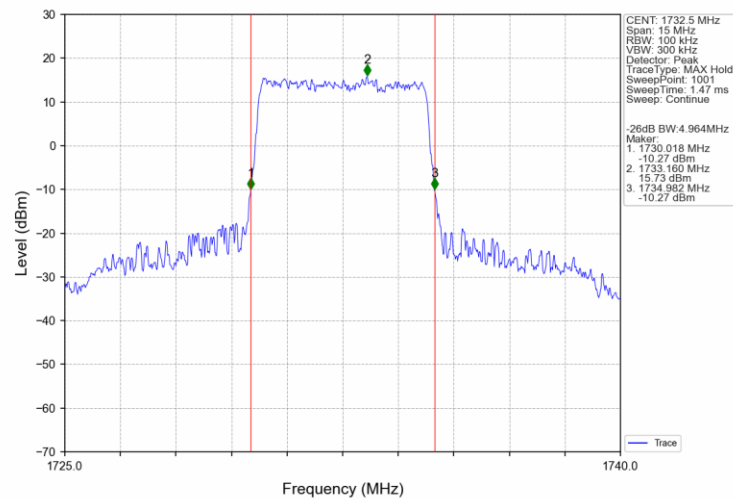
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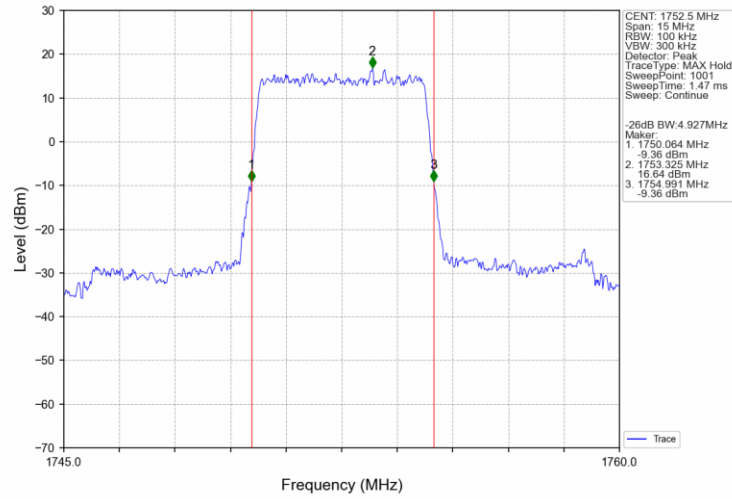
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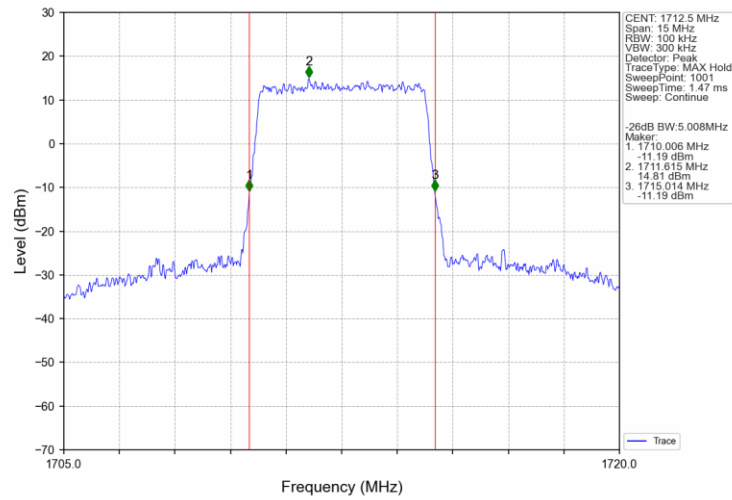
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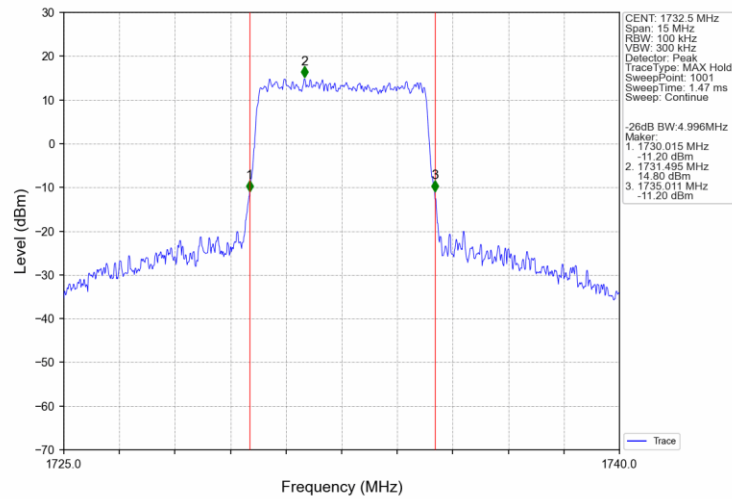
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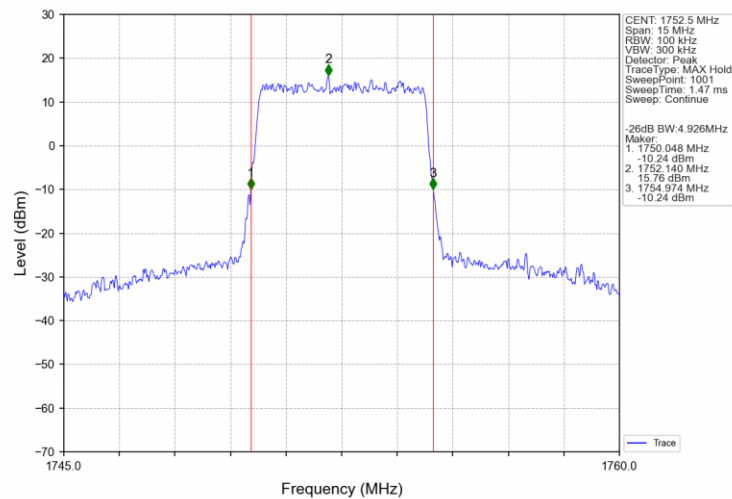
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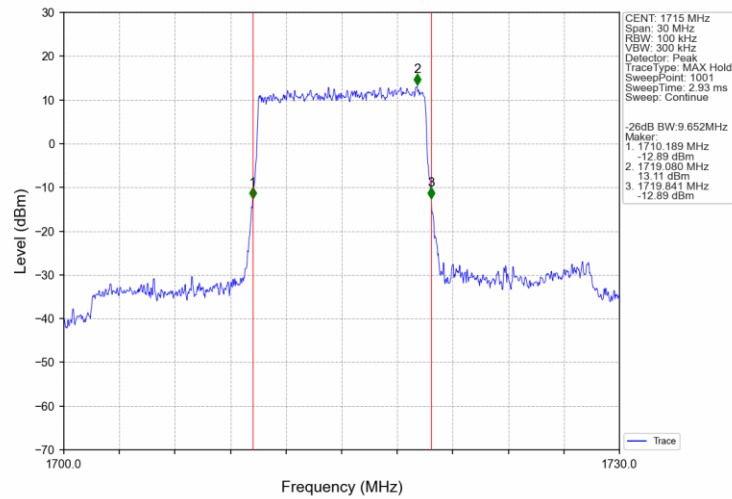
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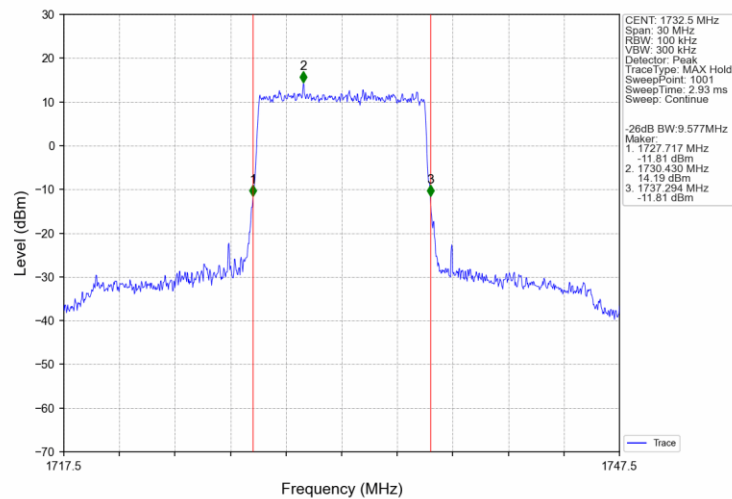
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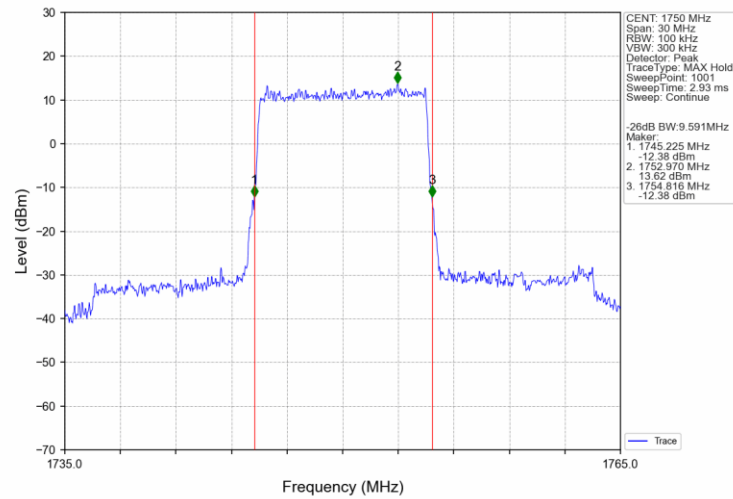
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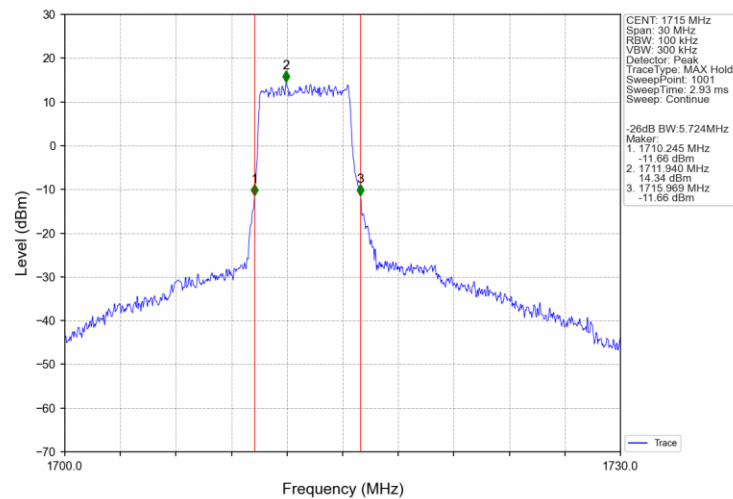
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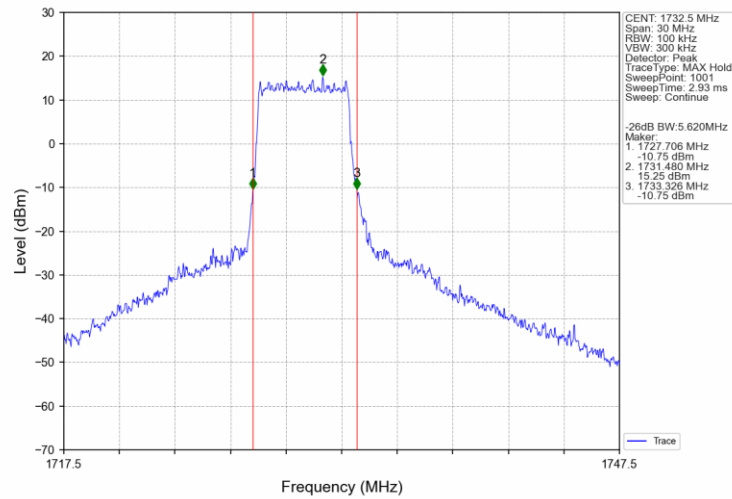
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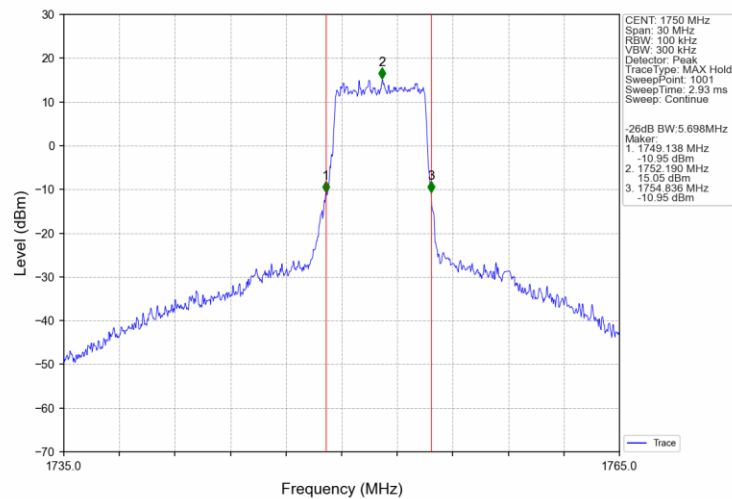
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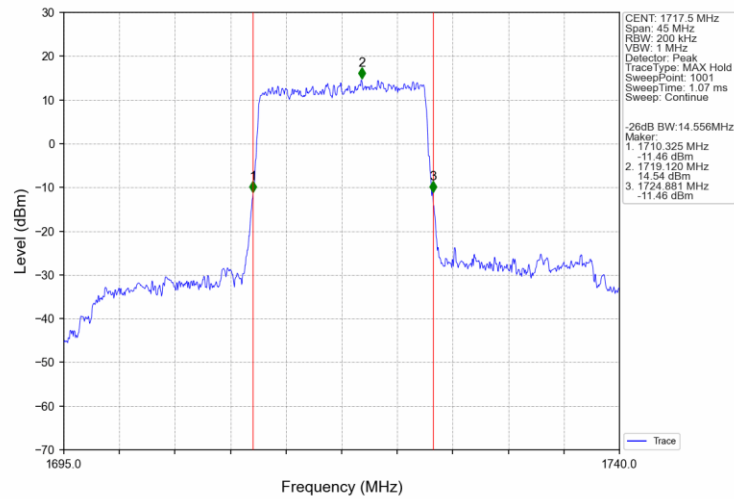
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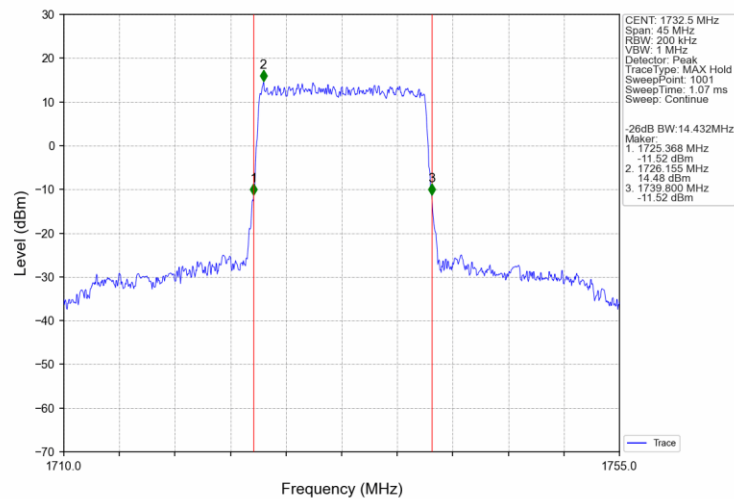
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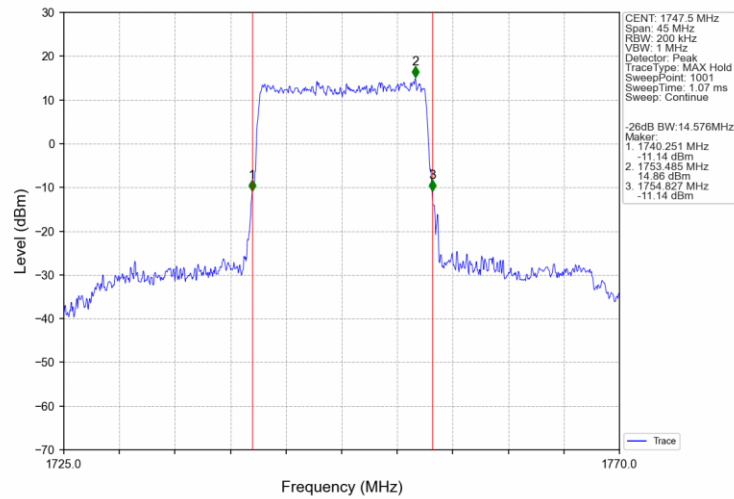
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



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

