

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	22.70	0.70	23.40	<=30	Pass
			2	22.69	0.70	23.39	<=30	Pass
			5	22.76	0.70	23.46	<=30	Pass
		3	0	22.74	0.70	23.44	<=30	Pass
			2	22.74	0.70	23.44	<=30	Pass
			3	22.73	0.70	23.43	<=30	Pass
		6	0	21.77	0.70	22.47	<=30	Pass
	1732.5	1	0	22.75	0.70	23.45	<=30	Pass
			2	22.74	0.70	23.44	<=30	Pass
			5	22.78	0.70	23.48	<=30	Pass
		3	0	22.88	0.70	23.58	<=30	Pass
			2	22.84	0.70	23.54	<=30	Pass
			3	22.82	0.70	23.52	<=30	Pass
		6	0	21.87	0.70	22.57	<=30	Pass
	1754.3	1	0	22.72	0.70	23.42	<=30	Pass
			2	22.74	0.70	23.44	<=30	Pass
			5	22.73	0.70	23.43	<=30	Pass
		3	0	22.76	0.70	23.46	<=30	Pass
			2	22.77	0.70	23.47	<=30	Pass
			3	22.78	0.70	23.48	<=30	Pass
		6	0	21.74	0.70	22.44	<=30	Pass
16QAM	1710.7	1	0	21.91	0.70	22.61	<=30	Pass
			2	21.93	0.70	22.63	<=30	Pass
			5	21.92	0.70	22.62	<=30	Pass
		3	0	21.72	0.70	22.42	<=30	Pass
			2	21.75	0.70	22.45	<=30	Pass
			3	21.74	0.70	22.44	<=30	Pass
		6	0	20.79	0.70	21.49	<=30	Pass
	1732.5	1	0	21.87	0.70	22.57	<=30	Pass
			2	21.85	0.70	22.55	<=30	Pass
			5	21.87	0.70	22.57	<=30	Pass
		3	0	22.00	0.70	22.70	<=30	Pass
			2	22.00	0.70	22.70	<=30	Pass
			3	22.02	0.70	22.72	<=30	Pass
		6	0	20.84	0.70	21.54	<=30	Pass
	1754.3	1	0	21.76	0.70	22.46	<=30	Pass
			2	21.75	0.70	22.45	<=30	Pass
			5	21.82	0.70	22.52	<=30	Pass
		3	0	21.80	0.70	22.50	<=30	Pass
			2	21.81	0.70	22.51	<=30	Pass
			3	21.78	0.70	22.48	<=30	Pass
		6	0	20.66	0.70	21.36	<=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	22.75	0.70	23.45	<=30	Pass
			7	22.77	0.70	23.47	<=30	Pass
			14	22.76	0.70	23.46	<=30	Pass
		8	0	21.75	0.70	22.45	<=30	Pass
			4	21.75	0.70	22.45	<=30	Pass
			7	21.77	0.70	22.47	<=30	Pass
		15	0	21.76	0.70	22.46	<=30	Pass
	1732.5	1	0	22.80	0.70	23.50	<=30	Pass
			7	22.80	0.70	23.50	<=30	Pass
			14	22.80	0.70	23.50	<=30	Pass
		8	0	21.87	0.70	22.57	<=30	Pass
			4	21.83	0.70	22.53	<=30	Pass
			7	21.83	0.70	22.53	<=30	Pass
		15	0	21.83	0.70	22.53	<=30	Pass
	1753.5	1	0	22.75	0.70	23.45	<=30	Pass
			7	22.75	0.70	23.45	<=30	Pass
			14	22.71	0.70	23.41	<=30	Pass
		8	0	21.71	0.70	22.41	<=30	Pass
			4	21.71	0.70	22.41	<=30	Pass
			7	21.70	0.70	22.40	<=30	Pass
		15	0	21.72	0.70	22.42	<=30	Pass
16QAM	1711.5	1	0	21.81	0.70	22.51	<=30	Pass
			7	21.81	0.70	22.51	<=30	Pass
			14	21.78	0.70	22.48	<=30	Pass
		8	0	20.81	0.70	21.51	<=30	Pass
			4	20.83	0.70	21.53	<=30	Pass
			7	20.84	0.70	21.54	<=30	Pass
		15	0	20.81	0.70	21.51	<=30	Pass
	1732.5	1	0	22.07	0.70	22.77	<=30	Pass
			7	22.07	0.70	22.77	<=30	Pass
			14	22.02	0.70	22.72	<=30	Pass
		8	0	20.86	0.70	21.56	<=30	Pass
			4	20.80	0.70	21.50	<=30	Pass
			7	20.79	0.70	21.49	<=30	Pass
		15	0	20.78	0.70	21.48	<=30	Pass
	1753.5	1	0	22.32	0.70	23.02	<=30	Pass
			7	22.30	0.70	23.00	<=30	Pass
			14	22.27	0.70	22.97	<=30	Pass
		8	0	20.90	0.70	21.60	<=30	Pass
			4	20.90	0.70	21.60	<=30	Pass
			7	20.91	0.70	21.61	<=30	Pass
		15	0	20.80	0.70	21.50	<=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	22.83	0.70	23.53	<=30	Pass
			13	22.77	0.70	23.47	<=30	Pass
			24	22.84	0.70	23.54	<=30	Pass
		12	0	21.74	0.70	22.44	<=30	Pass
			6	21.77	0.70	22.47	<=30	Pass
			13	21.78	0.70	22.48	<=30	Pass
		25	0	21.79	0.70	22.49	<=30	Pass
			0	22.48	0.70	23.18	<=30	Pass
			13	22.47	0.70	23.17	<=30	Pass
	1732.5	1	24	22.78	0.70	23.48	<=30	Pass
			0	21.93	0.70	22.63	<=30	Pass
			6	21.87	0.70	22.57	<=30	Pass
		12	13	21.85	0.70	22.55	<=30	Pass
			0	21.90	0.70	22.60	<=30	Pass
			0	22.79	0.70	23.49	<=30	Pass
		25	13	22.86	0.70	23.56	<=30	Pass
			24	22.94	0.70	23.64	<=30	Pass
			0	21.75	0.70	22.45	<=30	Pass
16QAM	1712.5	1	6	21.77	0.70	22.47	<=30	Pass
			13	21.79	0.70	22.49	<=30	Pass
			0	21.79	0.70	22.49	<=30	Pass
		12	0	21.59	0.70	22.29	<=30	Pass
			13	21.49	0.70	22.19	<=30	Pass
			24	21.70	0.70	22.40	<=30	Pass
		25	0	20.72	0.70	21.42	<=30	Pass
			6	20.76	0.70	21.46	<=30	Pass
			13	20.74	0.70	21.44	<=30	Pass
	1732.5	1	0	20.83	0.70	21.53	<=30	Pass
			0	22.11	0.70	22.81	<=30	Pass
			13	22.01	0.70	22.71	<=30	Pass
		12	24	21.95	0.70	22.65	<=30	Pass
			0	20.96	0.70	21.66	<=30	Pass
			6	20.90	0.70	21.60	<=30	Pass
		25	13	20.87	0.70	21.57	<=30	Pass
			0	20.90	0.70	21.60	<=30	Pass
			0	21.50	0.70	22.20	<=30	Pass
	1752.5	1	13	21.47	0.70	22.17	<=30	Pass
			24	21.50	0.70	22.20	<=30	Pass
			0	20.73	0.70	21.43	<=30	Pass
		12	6	20.76	0.70	21.46	<=30	Pass
			13	20.77	0.70	21.47	<=30	Pass
		25	0	20.81	0.70	21.51	<=30	Pass
			0	21.59	0.70	22.29	<=30	Pass
			13	21.49	0.70	22.19	<=30	Pass
			24	21.70	0.70	22.40	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	22.78	0.70	23.48	<=30	Pass
			25	22.76	0.70	23.46	<=30	Pass
			49	22.65	0.70	23.35	<=30	Pass
		25	0	21.74	0.70	22.44	<=30	Pass
			13	21.82	0.70	22.52	<=30	Pass
			25	21.94	0.70	22.64	<=30	Pass
		50	0	21.84	0.70	22.54	<=30	Pass
			0	22.34	0.70	23.04	<=30	Pass
			25	22.39	0.70	23.09	<=30	Pass
	1732.5	1	49	22.34	0.70	23.04	<=30	Pass
			0	21.90	0.70	22.60	<=30	Pass
			13	21.90	0.70	22.60	<=30	Pass
		25	25	21.83	0.70	22.53	<=30	Pass
			0	21.86	0.70	22.56	<=30	Pass
			0	22.36	0.70	23.06	<=30	Pass
		25	25	22.30	0.70	23.00	<=30	Pass
			49	22.26	0.70	22.96	<=30	Pass
			0	21.72	0.70	22.42	<=30	Pass
	1750	25	13	21.76	0.70	22.46	<=30	Pass
			25	21.84	0.70	22.54	<=30	Pass
			0	21.83	0.70	22.53	<=30	Pass
16QAM	1715	1	0	21.33	0.70	22.03	<=30	Pass
			25	21.27	0.70	21.97	<=30	Pass
			49	21.39	0.70	22.09	<=30	Pass
		25	0	20.80	0.70	21.50	<=30	Pass
			13	20.87	0.70	21.57	<=30	Pass
			25	21.01	0.70	21.71	<=30	Pass
		50	0	20.85	0.70	21.55	<=30	Pass
			0	21.56	0.70	22.26	<=30	Pass
			25	21.56	0.70	22.26	<=30	Pass
	1732.5	1	49	21.57	0.70	22.27	<=30	Pass
			0	20.93	0.70	21.63	<=30	Pass
			13	20.92	0.70	21.62	<=30	Pass
		25	25	20.85	0.70	21.55	<=30	Pass
			0	20.88	0.70	21.58	<=30	Pass
			0	21.86	0.70	22.56	<=30	Pass
		25	25	21.80	0.70	22.50	<=30	Pass
			49	21.82	0.70	22.52	<=30	Pass
			0	20.79	0.70	21.49	<=30	Pass
	1750	25	13	20.82	0.70	21.52	<=30	Pass
			25	20.91	0.70	21.61	<=30	Pass
			0	20.82	0.70	21.52	<=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	22.55	0.70	23.25	<=30	Pass
			38	22.31	0.70	23.01	<=30	Pass
			74	22.27	0.70	22.97	<=30	Pass
		36	0	21.65	0.70	22.35	<=30	Pass
			18	21.76	0.70	22.46	<=30	Pass
			39	21.88	0.70	22.58	<=30	Pass
		75	0	21.82	0.70	22.52	<=30	Pass
	1732.5	1	0	22.24	0.70	22.94	<=30	Pass
			38	22.35	0.70	23.05	<=30	Pass
			74	22.29	0.70	22.99	<=30	Pass
		36	0	21.81	0.70	22.51	<=30	Pass
			18	21.86	0.70	22.56	<=30	Pass
			39	21.82	0.70	22.52	<=30	Pass
		75	0	21.82	0.70	22.52	<=30	Pass
	1747.5	1	0	22.19	0.70	22.89	<=30	Pass
			38	22.27	0.70	22.97	<=30	Pass
			74	22.20	0.70	22.90	<=30	Pass
		36	0	21.75	0.70	22.45	<=30	Pass
			18	21.76	0.70	22.46	<=30	Pass
			39	21.82	0.70	22.52	<=30	Pass
		75	0	21.82	0.70	22.52	<=30	Pass
16QAM	1717.5	1	0	21.57	0.70	22.27	<=30	Pass
			38	21.64	0.70	22.34	<=30	Pass
			74	21.71	0.70	22.41	<=30	Pass
		36	0	20.68	0.70	21.38	<=30	Pass
			18	20.76	0.70	21.46	<=30	Pass
			39	20.87	0.70	21.57	<=30	Pass
		75	0	20.80	0.70	21.50	<=30	Pass
	1732.5	1	0	21.46	0.70	22.16	<=30	Pass
			38	21.53	0.70	22.23	<=30	Pass
			74	21.47	0.70	22.17	<=30	Pass
		36	0	20.83	0.70	21.53	<=30	Pass
			18	20.88	0.70	21.58	<=30	Pass
			39	20.80	0.70	21.50	<=30	Pass
		75	0	20.85	0.70	21.55	<=30	Pass
	1747.5	1	0	21.80	0.70	22.50	<=30	Pass
			38	21.87	0.70	22.57	<=30	Pass
			74	21.78	0.70	22.48	<=30	Pass
		36	0	20.79	0.70	21.49	<=30	Pass
			18	20.78	0.70	21.48	<=30	Pass
			39	20.84	0.70	21.54	<=30	Pass
		75	0	20.78	0.70	21.48	<=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	22.43	0.70	23.13	<=30	Pass
			50	22.34	0.70	23.04	<=30	Pass
			99	22.26	0.70	22.96	<=30	Pass
		50	0	21.63	0.70	22.33	<=30	Pass
			25	21.85	0.70	22.55	<=30	Pass
			50	22.02	0.70	22.72	<=30	Pass
		100	0	21.82	0.70	22.52	<=30	Pass
			0	22.28	0.70	22.98	<=30	Pass
			0	22.39	0.70	23.09	<=30	Pass
	1732.5	1	0	22.28	0.70	22.98	<=30	Pass
			50	22.39	0.70	23.09	<=30	Pass
			99	22.26	0.70	22.96	<=30	Pass
		50	0	21.80	0.70	22.50	<=30	Pass
			25	21.88	0.70	22.58	<=30	Pass
			50	21.82	0.70	22.52	<=30	Pass
		100	0	21.78	0.70	22.48	<=30	Pass
			0	22.27	0.70	22.97	<=30	Pass
			0	22.33	0.70	23.03	<=30	Pass
	1745	1	0	22.19	0.70	22.89	<=30	Pass
			0	21.83	0.70	22.53	<=30	Pass
			0	21.83	0.70	22.53	<=30	Pass
		50	25	21.83	0.70	22.53	<=30	Pass
			50	21.85	0.70	22.55	<=30	Pass
			0	21.84	0.70	22.54	<=30	Pass
		100	0	21.75	0.70	22.45	<=30	Pass
			0	21.85	0.70	22.55	<=30	Pass
			0	21.92	0.70	22.62	<=30	Pass
16QAM	1720	1	0	21.75	0.70	22.45	<=30	Pass
			50	21.85	0.70	22.55	<=30	Pass
			99	21.92	0.70	22.62	<=30	Pass
		50	0	20.57	0.70	21.27	<=30	Pass
			25	20.85	0.70	21.55	<=30	Pass
			50	20.99	0.70	21.69	<=30	Pass
		100	0	20.82	0.70	21.52	<=30	Pass
			0	21.53	0.70	22.23	<=30	Pass
			0	21.61	0.70	22.31	<=30	Pass
	1732.5	1	0	21.61	0.70	22.31	<=30	Pass
			0	21.49	0.70	22.19	<=30	Pass
			0	20.78	0.70	21.48	<=30	Pass
		50	25	20.86	0.70	21.56	<=30	Pass
			50	20.78	0.70	21.48	<=30	Pass
			0	20.77	0.70	21.47	<=30	Pass
		100	0	21.60	0.70	22.30	<=30	Pass
			0	21.63	0.70	22.33	<=30	Pass
			0	21.49	0.70	22.19	<=30	Pass
	1745	1	0	20.80	0.70	21.50	<=30	Pass
			25	20.80	0.70	21.50	<=30	Pass
			50	20.85	0.70	21.55	<=30	Pass
		50	25	20.80	0.70	21.50	<=30	Pass
			50	20.85	0.70	21.55	<=30	Pass
			0	20.85	0.70	21.55	<=30	Pass
		100	0	20.85	0.70	21.55	<=30	Pass
			0	20.85	0.70	21.55	<=30	Pass
			0	20.85	0.70	21.55	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.23	-9.069	-0.0053	-2.5 to 2.5	Pass
					3.80	-0.887	-0.0005	-2.5 to 2.5	Pass
					4.37	-4.320	-0.0025	-2.5 to 2.5	Pass
				-30	3.80	-4.764	-0.0028	-2.5 to 2.5	Pass
				-20	3.80	3.705	0.0022	-2.5 to 2.5	Pass
				-10	3.80	-2.432	-0.0014	-2.5 to 2.5	Pass
				0	3.80	-6.509	-0.0038	-2.5 to 2.5	Pass
				10	3.80	-0.858	-0.0005	-2.5 to 2.5	Pass
				30	3.80	-7.124	-0.0042	-2.5 to 2.5	Pass
				40	3.80	4.377	0.0026	-2.5 to 2.5	Pass
				50	3.80	-0.358	-0.0002	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.23	8.039	0.0046	-2.5 to 2.5	Pass
					3.80	-5.679	-0.0033	-2.5 to 2.5	Pass
					4.37	8.397	0.0048	-2.5 to 2.5	Pass
				-30	3.80	2.818	0.0016	-2.5 to 2.5	Pass
				-20	3.80	4.735	0.0027	-2.5 to 2.5	Pass
				-10	3.80	-3.219	-0.0019	-2.5 to 2.5	Pass
				0	3.80	6.866	0.0040	-2.5 to 2.5	Pass
				10	3.80	0.558	0.0003	-2.5 to 2.5	Pass
				30	3.80	4.549	0.0026	-2.5 to 2.5	Pass
				40	3.80	4.892	0.0028	-2.5 to 2.5	Pass
				50	3.80	4.120	0.0024	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.23	4.163	0.0024	-2.5 to 2.5	Pass
					3.80	-0.916	-0.0005	-2.5 to 2.5	Pass
					4.37	4.134	0.0024	-2.5 to 2.5	Pass
				-30	3.80	1.445	0.0008	-2.5 to 2.5	Pass
				-20	3.80	-1.116	-0.0006	-2.5 to 2.5	Pass
				-10	3.80	7.353	0.0042	-2.5 to 2.5	Pass
				0	3.80	3.304	0.0019	-2.5 to 2.5	Pass
				10	3.80	-2.804	-0.0016	-2.5 to 2.5	Pass
				30	3.80	8.826	0.0050	-2.5 to 2.5	Pass
				40	3.80	9.356	0.0053	-2.5 to 2.5	Pass
				50	3.80	9.027	0.0051	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.23	-0.386	-0.0002	-2.5 to 2.5	Pass
					3.80	-12.832	-0.0075	-2.5 to 2.5	Pass
					4.37	-1.802	-0.0011	-2.5 to 2.5	Pass
				-30	3.80	1.631	0.0010	-2.5 to 2.5	Pass
				-20	3.80	0.200	0.0001	-2.5 to 2.5	Pass
				-10	3.80	-1.273	-0.0007	-2.5 to 2.5	Pass
				0	3.80	5.407	0.0032	-2.5 to 2.5	Pass
				10	3.80	0.114	0.0001	-2.5 to 2.5	Pass
				30	3.80	1.287	0.0008	-2.5 to 2.5	Pass
				40	3.80	1.974	0.0012	-2.5 to 2.5	Pass
				50	3.80	0.315	0.0002	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.23	3.090	0.0018	-2.5 to 2.5	Pass
					3.80	7.310	0.0042	-2.5 to 2.5	Pass
					4.37	0.072	0.0000	-2.5 to 2.5	Pass
				-30	3.80	5.136	0.0030	-2.5 to 2.5	Pass
				-20	3.80	2.375	0.0014	-2.5 to 2.5	Pass
				-10	3.80	2.503	0.0014	-2.5 to 2.5	Pass

				0	3.80	9.599	0.0055	-2.5 to 2.5	Pass
				10	3.80	-3.276	-0.0019	-2.5 to 2.5	Pass
				30	3.80	3.405	0.0020	-2.5 to 2.5	Pass
				40	3.80	14.019	0.0081	-2.5 to 2.5	Pass
				50	3.80	9.713	0.0056	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.23	1.760	0.0010	-2.5 to 2.5	Pass
					3.80	6.838	0.0039	-2.5 to 2.5	Pass
					4.37	10.643	0.0061	-2.5 to 2.5	Pass
				-30	3.80	8.483	0.0048	-2.5 to 2.5	Pass
				-20	3.80	3.119	0.0018	-2.5 to 2.5	Pass
				-10	3.80	7.625	0.0043	-2.5 to 2.5	Pass
				0	3.80	1.888	0.0011	-2.5 to 2.5	Pass
				10	3.80	2.160	0.0012	-2.5 to 2.5	Pass
				30	3.80	8.669	0.0049	-2.5 to 2.5	Pass
				40	3.80	14.420	0.0082	-2.5 to 2.5	Pass
				50	3.80	3.719	0.0021	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.23	-5.136	-0.0030	-2.5 to 2.5	Pass
					3.80	-3.848	-0.0022	-2.5 to 2.5	Pass
					4.37	3.948	0.0023	-2.5 to 2.5	Pass
				-30	3.80	-3.119	-0.0018	-2.5 to 2.5	Pass
				-20	3.80	-1.416	-0.0008	-2.5 to 2.5	Pass
				-10	3.80	1.373	0.0008	-2.5 to 2.5	Pass
				0	3.80	11.201	0.0065	-2.5 to 2.5	Pass
				10	3.80	7.982	0.0047	-2.5 to 2.5	Pass
				30	3.80	3.977	0.0023	-2.5 to 2.5	Pass
				40	3.80	12.803	0.0075	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.23	-2.289	-0.0013	-2.5 to 2.5	Pass
					3.80	2.646	0.0015	-2.5 to 2.5	Pass
					4.37	-4.406	-0.0025	-2.5 to 2.5	Pass
				-30	3.80	5.407	0.0031	-2.5 to 2.5	Pass
				-20	3.80	10.114	0.0058	-2.5 to 2.5	Pass
				-10	3.80	3.691	0.0021	-2.5 to 2.5	Pass
				0	3.80	7.095	0.0041	-2.5 to 2.5	Pass
				10	3.80	10.400	0.0060	-2.5 to 2.5	Pass
				30	3.80	7.324	0.0042	-2.5 to 2.5	Pass
				40	3.80	-4.263	-0.0025	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.23	-12.016	-0.0069	-2.5 to 2.5	Pass
					3.80	-2.360	-0.0013	-2.5 to 2.5	Pass
					4.37	2.933	0.0017	-2.5 to 2.5	Pass
				-30	3.80	-7.482	-0.0043	-2.5 to 2.5	Pass
				-20	3.80	-9.913	-0.0057	-2.5 to 2.5	Pass
				-10	3.80	-6.523	-0.0037	-2.5 to 2.5	Pass
				0	3.80	1.645	0.0009	-2.5 to 2.5	Pass
				10	3.80	-7.267	-0.0041	-2.5 to 2.5	Pass
				30	3.80	0.143	0.0001	-2.5 to 2.5	Pass
				40	3.80	-5.951	-0.0034	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.23	2.918	0.0017	-2.5 to 2.5	Pass
					3.80	6.909	0.0040	-2.5 to 2.5	Pass
					4.37	14.176	0.0083	-2.5 to 2.5	Pass

				-30	3.80	12.403	0.0072	-2.5 to 2.5	Pass
				-20	3.80	7.567	0.0044	-2.5 to 2.5	Pass
				-10	3.80	3.133	0.0018	-2.5 to 2.5	Pass
				0	3.80	1.960	0.0011	-2.5 to 2.5	Pass
				10	3.80	8.526	0.0050	-2.5 to 2.5	Pass
				30	3.80	11.687	0.0068	-2.5 to 2.5	Pass
				40	3.80	7.324	0.0043	-2.5 to 2.5	Pass
				50	3.80	5.436	0.0032	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.23	-0.114	-0.0001	-2.5 to 2.5	Pass
					3.80	0.501	0.0003	-2.5 to 2.5	Pass
					4.37	6.037	0.0035	-2.5 to 2.5	Pass
				-30	3.80	-0.772	-0.0004	-2.5 to 2.5	Pass
				-20	3.80	5.021	0.0029	-2.5 to 2.5	Pass
				-10	3.80	-4.992	-0.0029	-2.5 to 2.5	Pass
				0	3.80	-1.817	-0.0010	-2.5 to 2.5	Pass
				10	3.80	5.622	0.0032	-2.5 to 2.5	Pass
				30	3.80	-0.916	-0.0005	-2.5 to 2.5	Pass
				40	3.80	-3.376	-0.0019	-2.5 to 2.5	Pass
				50	3.80	4.234	0.0024	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.23	-5.536	-0.0032	-2.5 to 2.5	Pass
					3.80	10.142	0.0058	-2.5 to 2.5	Pass
					4.37	-3.991	-0.0023	-2.5 to 2.5	Pass
				-30	3.80	4.435	0.0025	-2.5 to 2.5	Pass
				-20	3.80	3.290	0.0019	-2.5 to 2.5	Pass
				-10	3.80	3.376	0.0019	-2.5 to 2.5	Pass
				0	3.80	-9.699	-0.0055	-2.5 to 2.5	Pass
				10	3.80	2.789	0.0016	-2.5 to 2.5	Pass
				30	3.80	5.221	0.0030	-2.5 to 2.5	Pass
				40	3.80	3.319	0.0019	-2.5 to 2.5	Pass
				50	3.80	6.309	0.0036	-2.5 to 2.5	Pass

2.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.23	-1.545	-0.0009	-2.5 to 2.5	Pass
					3.80	4.492	0.0026	-2.5 to 2.5	Pass
					4.37	3.376	0.0020	-2.5 to 2.5	Pass
				-30	3.80	4.506	0.0026	-2.5 to 2.5	Pass
				-20	3.80	-0.143	-0.0001	-2.5 to 2.5	Pass
				-10	3.80	11.172	0.0065	-2.5 to 2.5	Pass
				0	3.80	3.805	0.0022	-2.5 to 2.5	Pass
				10	3.80	4.263	0.0025	-2.5 to 2.5	Pass
				30	3.80	2.589	0.0015	-2.5 to 2.5	Pass
				40	3.80	7.138	0.0042	-2.5 to 2.5	Pass
				50	3.80	7.081	0.0041	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.23	8.683	0.0050	-2.5 to 2.5	Pass
					3.80	3.748	0.0022	-2.5 to 2.5	Pass
					4.37	4.578	0.0026	-2.5 to 2.5	Pass
				-30	3.80	2.718	0.0016	-2.5 to 2.5	Pass
				-20	3.80	6.237	0.0036	-2.5 to 2.5	Pass
				-10	3.80	3.533	0.0020	-2.5 to 2.5	Pass
				0	3.80	5.794	0.0033	-2.5 to 2.5	Pass
				10	3.80	0.443	0.0003	-2.5 to 2.5	Pass
				30	3.80	2.518	0.0015	-2.5 to 2.5	Pass
				40	3.80	1.230	0.0007	-2.5 to 2.5	Pass
				50	3.80	-0.987	-0.0006	-2.5 to 2.5	Pass

	1752.5	25	0	20	3.23	7.682	0.0044	-2.5 to 2.5	Pass
					3.80	6.967	0.0040	-2.5 to 2.5	Pass
					4.37	7.610	0.0043	-2.5 to 2.5	Pass
				-30	3.80	-0.901	-0.0005	-2.5 to 2.5	Pass
				-20	3.80	8.454	0.0048	-2.5 to 2.5	Pass
				-10	3.80	4.606	0.0026	-2.5 to 2.5	Pass
				0	3.80	5.050	0.0029	-2.5 to 2.5	Pass
				10	3.80	9.556	0.0055	-2.5 to 2.5	Pass
				30	3.80	6.523	0.0037	-2.5 to 2.5	Pass
				40	3.80	-2.203	-0.0013	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.23	5.679	0.0033	-2.5 to 2.5	Pass
					3.80	5.565	0.0032	-2.5 to 2.5	Pass
					4.37	8.483	0.0050	-2.5 to 2.5	Pass
				-30	3.80	2.732	0.0016	-2.5 to 2.5	Pass
				-20	3.80	6.452	0.0038	-2.5 to 2.5	Pass
				-10	3.80	0.443	0.0003	-2.5 to 2.5	Pass
				0	3.80	6.008	0.0035	-2.5 to 2.5	Pass
				10	3.80	7.524	0.0044	-2.5 to 2.5	Pass
				30	3.80	6.809	0.0040	-2.5 to 2.5	Pass
				40	3.80	4.148	0.0024	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.23	-0.229	-0.0001	-2.5 to 2.5	Pass
					3.80	8.240	0.0048	-2.5 to 2.5	Pass
					4.37	-0.215	-0.0001	-2.5 to 2.5	Pass
				-30	3.80	-1.459	-0.0008	-2.5 to 2.5	Pass
				-20	3.80	4.435	0.0026	-2.5 to 2.5	Pass
				-10	3.80	-3.362	-0.0019	-2.5 to 2.5	Pass
				0	3.80	-1.059	-0.0006	-2.5 to 2.5	Pass
				10	3.80	3.347	0.0019	-2.5 to 2.5	Pass
				30	3.80	2.575	0.0015	-2.5 to 2.5	Pass
				40	3.80	1.917	0.0011	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.23	10.757	0.0061	-2.5 to 2.5	Pass
					3.80	3.977	0.0023	-2.5 to 2.5	Pass
					4.37	3.219	0.0018	-2.5 to 2.5	Pass
				-30	3.80	3.977	0.0023	-2.5 to 2.5	Pass
				-20	3.80	2.990	0.0017	-2.5 to 2.5	Pass
				-10	3.80	3.347	0.0019	-2.5 to 2.5	Pass
				0	3.80	-1.202	-0.0007	-2.5 to 2.5	Pass
				10	3.80	4.935	0.0028	-2.5 to 2.5	Pass
				30	3.80	6.037	0.0034	-2.5 to 2.5	Pass
				40	3.80	2.918	0.0017	-2.5 to 2.5	Pass
				50	3.80	10.028	0.0057	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.23	2.704	0.0016	-2.5 to 2.5	Pass
					3.80	4.091	0.0024	-2.5 to 2.5	Pass
					4.37	3.204	0.0019	-2.5 to 2.5	Pass
				-30	3.80	4.449	0.0026	-2.5 to 2.5	Pass
				-20	3.80	4.034	0.0024	-2.5 to 2.5	Pass
				-10	3.80	5.221	0.0030	-2.5 to 2.5	Pass
				0	3.80	2.074	0.0012	-2.5 to 2.5	Pass
				10	3.80	4.034	0.0024	-2.5 to 2.5	Pass

				30	3.80	4.478	0.0026	-2.5 to 2.5	Pass
				40	3.80	4.334	0.0025	-2.5 to 2.5	Pass
				50	3.80	4.807	0.0028	-2.5 to 2.5	Pass
				20	3.23	1.645	0.0009	-2.5 to 2.5	Pass
					3.80	0.758	0.0004	-2.5 to 2.5	Pass
					4.37	1.130	0.0007	-2.5 to 2.5	Pass
				-30	3.80	1.373	0.0008	-2.5 to 2.5	Pass
				-20	3.80	6.108	0.0035	-2.5 to 2.5	Pass
				-10	3.80	-0.572	-0.0003	-2.5 to 2.5	Pass
	1732.5	50	0	0	3.80	3.319	0.0019	-2.5 to 2.5	Pass
				10	3.80	-0.715	-0.0004	-2.5 to 2.5	Pass
				30	3.80	6.237	0.0036	-2.5 to 2.5	Pass
				40	3.80	3.533	0.0020	-2.5 to 2.5	Pass
				50	3.80	0.744	0.0004	-2.5 to 2.5	Pass
				20	3.23	3.605	0.0021	-2.5 to 2.5	Pass
					3.80	1.345	0.0008	-2.5 to 2.5	Pass
					4.37	6.495	0.0037	-2.5 to 2.5	Pass
	1750	50	0	-30	3.80	6.266	0.0036	-2.5 to 2.5	Pass
				-20	3.80	3.562	0.0020	-2.5 to 2.5	Pass
				-10	3.80	-3.777	-0.0022	-2.5 to 2.5	Pass
				0	3.80	5.193	0.0030	-2.5 to 2.5	Pass
				10	3.80	3.791	0.0022	-2.5 to 2.5	Pass
				30	3.80	4.177	0.0024	-2.5 to 2.5	Pass
				40	3.80	1.659	0.0009	-2.5 to 2.5	Pass
				50	3.80	2.890	0.0017	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.23	6.409	0.0037	-2.5 to 2.5	Pass
					3.80	5.121	0.0030	-2.5 to 2.5	Pass
					4.37	3.176	0.0019	-2.5 to 2.5	Pass
				-30	3.80	5.722	0.0033	-2.5 to 2.5	Pass
				-20	3.80	0.644	0.0004	-2.5 to 2.5	Pass
				-10	3.80	4.492	0.0026	-2.5 to 2.5	Pass
				0	3.80	5.064	0.0030	-2.5 to 2.5	Pass
				10	3.80	4.663	0.0027	-2.5 to 2.5	Pass
				30	3.80	3.176	0.0019	-2.5 to 2.5	Pass
	1732.5	50	0	40	3.80	4.392	0.0026	-2.5 to 2.5	Pass
				50	3.80	5.364	0.0031	-2.5 to 2.5	Pass
				20	3.23	-4.177	-0.0024	-2.5 to 2.5	Pass
					3.80	1.388	0.0008	-2.5 to 2.5	Pass
					4.37	-0.086	0.0000	-2.5 to 2.5	Pass
				-30	3.80	0.887	0.0005	-2.5 to 2.5	Pass
				-20	3.80	-3.018	-0.0017	-2.5 to 2.5	Pass
				-10	3.80	3.076	0.0018	-2.5 to 2.5	Pass
				0	3.80	-0.486	-0.0003	-2.5 to 2.5	Pass
	1750	50	0	10	3.80	-2.275	-0.0013	-2.5 to 2.5	Pass
				30	3.80	-0.887	-0.0005	-2.5 to 2.5	Pass
				40	3.80	0.501	0.0003	-2.5 to 2.5	Pass
				50	3.80	5.507	0.0032	-2.5 to 2.5	Pass
				20	3.23	2.704	0.0015	-2.5 to 2.5	Pass
					3.80	2.174	0.0012	-2.5 to 2.5	Pass
					4.37	1.917	0.0011	-2.5 to 2.5	Pass
				-30	3.80	0.486	0.0003	-2.5 to 2.5	Pass
				-20	3.80	0.944	0.0005	-2.5 to 2.5	Pass
				-10	3.80	2.160	0.0012	-2.5 to 2.5	Pass
				0	3.80	2.961	0.0017	-2.5 to 2.5	Pass
				10	3.80	0.401	0.0002	-2.5 to 2.5	Pass
				30	3.80	2.289	0.0013	-2.5 to 2.5	Pass
				40	3.80	2.604	0.0015	-2.5 to 2.5	Pass
				50	3.80	3.519	0.0020	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.23	1.974	0.0011	-2.5 to 2.5	Pass
					3.80	2.718	0.0016	-2.5 to 2.5	Pass
					4.37	2.275	0.0013	-2.5 to 2.5	Pass
				-30	3.80	3.433	0.0020	-2.5 to 2.5	Pass
				-20	3.80	2.489	0.0014	-2.5 to 2.5	Pass
				-10	3.80	1.874	0.0011	-2.5 to 2.5	Pass
				0	3.80	3.719	0.0022	-2.5 to 2.5	Pass
				10	3.80	2.747	0.0016	-2.5 to 2.5	Pass
				30	3.80	3.419	0.0020	-2.5 to 2.5	Pass
				40	3.80	3.462	0.0020	-2.5 to 2.5	Pass
				50	3.80	2.718	0.0016	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.23	-2.818	-0.0016	-2.5 to 2.5	Pass
					3.80	-3.762	-0.0022	-2.5 to 2.5	Pass
					4.37	-1.974	-0.0011	-2.5 to 2.5	Pass
				-30	3.80	0.386	0.0002	-2.5 to 2.5	Pass
				-20	3.80	-0.515	-0.0003	-2.5 to 2.5	Pass
				-10	3.80	2.160	0.0012	-2.5 to 2.5	Pass
				0	3.80	0.544	0.0003	-2.5 to 2.5	Pass
				10	3.80	-0.887	-0.0005	-2.5 to 2.5	Pass
				30	3.80	1.073	0.0006	-2.5 to 2.5	Pass
				40	3.80	0.601	0.0003	-2.5 to 2.5	Pass
				50	3.80	5.636	0.0033	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.23	3.233	0.0019	-2.5 to 2.5	Pass
					3.80	2.732	0.0016	-2.5 to 2.5	Pass
					4.37	5.150	0.0029	-2.5 to 2.5	Pass
				-30	3.80	3.262	0.0019	-2.5 to 2.5	Pass
				-20	3.80	5.708	0.0033	-2.5 to 2.5	Pass
				-10	3.80	2.475	0.0014	-2.5 to 2.5	Pass
				0	3.80	3.934	0.0023	-2.5 to 2.5	Pass
				10	3.80	3.619	0.0021	-2.5 to 2.5	Pass
				30	3.80	2.561	0.0015	-2.5 to 2.5	Pass
				40	3.80	6.437	0.0037	-2.5 to 2.5	Pass
				50	3.80	1.459	0.0008	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.23	-0.200	-0.0001	-2.5 to 2.5	Pass
					3.80	4.878	0.0028	-2.5 to 2.5	Pass
					4.37	3.176	0.0018	-2.5 to 2.5	Pass
				-30	3.80	3.448	0.0020	-2.5 to 2.5	Pass
				-20	3.80	-4.606	-0.0027	-2.5 to 2.5	Pass
				-10	3.80	4.978	0.0029	-2.5 to 2.5	Pass
				0	3.80	3.262	0.0019	-2.5 to 2.5	Pass
				10	3.80	5.293	0.0031	-2.5 to 2.5	Pass
				30	3.80	3.605	0.0021	-2.5 to 2.5	Pass
				40	3.80	2.174	0.0013	-2.5 to 2.5	Pass
				50	3.80	4.692	0.0027	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.23	4.964	0.0029	-2.5 to 2.5	Pass
					3.80	1.717	0.0010	-2.5 to 2.5	Pass
					4.37	-1.888	-0.0011	-2.5 to 2.5	Pass
				-30	3.80	0.243	0.0001	-2.5 to 2.5	Pass
				-20	3.80	-1.631	-0.0009	-2.5 to 2.5	Pass
				-10	3.80	-2.017	-0.0012	-2.5 to 2.5	Pass
				0	3.80	-0.944	-0.0005	-2.5 to 2.5	Pass
				10	3.80	-1.345	-0.0008	-2.5 to 2.5	Pass
				30	3.80	-1.559	-0.0009	-2.5 to 2.5	Pass
				40	3.80	0.057	0.0000	-2.5 to 2.5	Pass
				50	3.80	0.615	0.0004	-2.5 to 2.5	Pass

	1747.5	75	0	20	3.23	4.120	0.0024	-2.5 to 2.5	Pass
					3.80	4.649	0.0027	-2.5 to 2.5	Pass
					4.37	4.535	0.0026	-2.5 to 2.5	Pass
				-30	3.80	5.422	0.0031	-2.5 to 2.5	Pass
				-20	3.80	5.579	0.0032	-2.5 to 2.5	Pass
				-10	3.80	7.682	0.0044	-2.5 to 2.5	Pass
				0	3.80	5.679	0.0032	-2.5 to 2.5	Pass
				10	3.80	5.493	0.0031	-2.5 to 2.5	Pass
				30	3.80	4.163	0.0024	-2.5 to 2.5	Pass
				40	3.80	7.768	0.0044	-2.5 to 2.5	Pass
				50	3.80	2.103	0.0012	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.23	1.688	0.0010	-2.5 to 2.5	Pass
					3.80	-0.057	0.0000	-2.5 to 2.5	Pass
					4.37	0.415	0.0002	-2.5 to 2.5	Pass
				-30	3.80	0.501	0.0003	-2.5 to 2.5	Pass
				-20	3.80	0.343	0.0002	-2.5 to 2.5	Pass
				-10	3.80	2.604	0.0015	-2.5 to 2.5	Pass
				0	3.80	1.488	0.0009	-2.5 to 2.5	Pass
				10	3.80	-1.531	-0.0009	-2.5 to 2.5	Pass
				30	3.80	1.473	0.0009	-2.5 to 2.5	Pass
				40	3.80	4.320	0.0025	-2.5 to 2.5	Pass
				50	3.80	0.043	0.0000	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.23	1.888	0.0011	-2.5 to 2.5	Pass
					3.80	4.277	0.0025	-2.5 to 2.5	Pass
					4.37	0.672	0.0004	-2.5 to 2.5	Pass
				-30	3.80	-1.330	-0.0008	-2.5 to 2.5	Pass
				-20	3.80	3.877	0.0022	-2.5 to 2.5	Pass
				-10	3.80	-0.286	-0.0002	-2.5 to 2.5	Pass
				0	3.80	4.578	0.0026	-2.5 to 2.5	Pass
				10	3.80	3.948	0.0023	-2.5 to 2.5	Pass
				30	3.80	0.715	0.0004	-2.5 to 2.5	Pass
				40	3.80	2.475	0.0014	-2.5 to 2.5	Pass
				50	3.80	4.435	0.0026	-2.5 to 2.5	Pass
	1745	100	0	20	3.23	-0.157	-0.0001	-2.5 to 2.5	Pass
					3.80	2.246	0.0013	-2.5 to 2.5	Pass
					4.37	2.017	0.0012	-2.5 to 2.5	Pass
				-30	3.80	0.315	0.0002	-2.5 to 2.5	Pass
				-20	3.80	4.864	0.0028	-2.5 to 2.5	Pass
				-10	3.80	1.101	0.0006	-2.5 to 2.5	Pass
				0	3.80	1.831	0.0010	-2.5 to 2.5	Pass
				10	3.80	2.489	0.0014	-2.5 to 2.5	Pass
				30	3.80	3.433	0.0020	-2.5 to 2.5	Pass
				40	3.80	3.290	0.0019	-2.5 to 2.5	Pass
				50	3.80	3.948	0.0023	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.23	2.217	0.0013	-2.5 to 2.5	Pass
					3.80	0.916	0.0005	-2.5 to 2.5	Pass
					4.37	1.502	0.0009	-2.5 to 2.5	Pass
				-30	3.80	2.747	0.0016	-2.5 to 2.5	Pass
				-20	3.80	1.459	0.0008	-2.5 to 2.5	Pass
				-10	3.80	0.186	0.0001	-2.5 to 2.5	Pass
				0	3.80	-0.486	-0.0003	-2.5 to 2.5	Pass
				10	3.80	-0.701	-0.0004	-2.5 to 2.5	Pass

				30	3.80	-1.845	-0.0011	-2.5 to 2.5	Pass
				40	3.80	2.503	0.0015	-2.5 to 2.5	Pass
				50	3.80	-2.317	-0.0013	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.23	-0.415	-0.0002	-2.5 to 2.5	Pass
					3.80	8.082	0.0047	-2.5 to 2.5	Pass
					4.37	3.533	0.0020	-2.5 to 2.5	Pass
				-30	3.80	3.204	0.0018	-2.5 to 2.5	Pass
				-20	3.80	0.901	0.0005	-2.5 to 2.5	Pass
				-10	3.80	3.133	0.0018	-2.5 to 2.5	Pass
				0	3.80	2.975	0.0017	-2.5 to 2.5	Pass
				10	3.80	3.819	0.0022	-2.5 to 2.5	Pass
				30	3.80	-0.215	-0.0001	-2.5 to 2.5	Pass
				40	3.80	4.506	0.0026	-2.5 to 2.5	Pass
				50	3.80	5.679	0.0033	-2.5 to 2.5	Pass
	1745	100	0	20	3.23	-2.303	-0.0013	-2.5 to 2.5	Pass
					3.80	4.864	0.0028	-2.5 to 2.5	Pass
					4.37	3.805	0.0022	-2.5 to 2.5	Pass
				-30	3.80	0.014	0.0000	-2.5 to 2.5	Pass
				-20	3.80	1.903	0.0011	-2.5 to 2.5	Pass
				-10	3.80	-0.401	-0.0002	-2.5 to 2.5	Pass
				0	3.80	1.631	0.0009	-2.5 to 2.5	Pass
				10	3.80	0.215	0.0001	-2.5 to 2.5	Pass
				30	3.80	3.648	0.0021	-2.5 to 2.5	Pass
				40	3.80	1.445	0.0008	-2.5 to 2.5	Pass
				50	3.80	2.575	0.0015	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

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

3.1.2 B4_3MHz

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

3.1.3 B4_5MHz

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

3.1.4 B4_10MHz

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

3.1.5 B4_15MHz

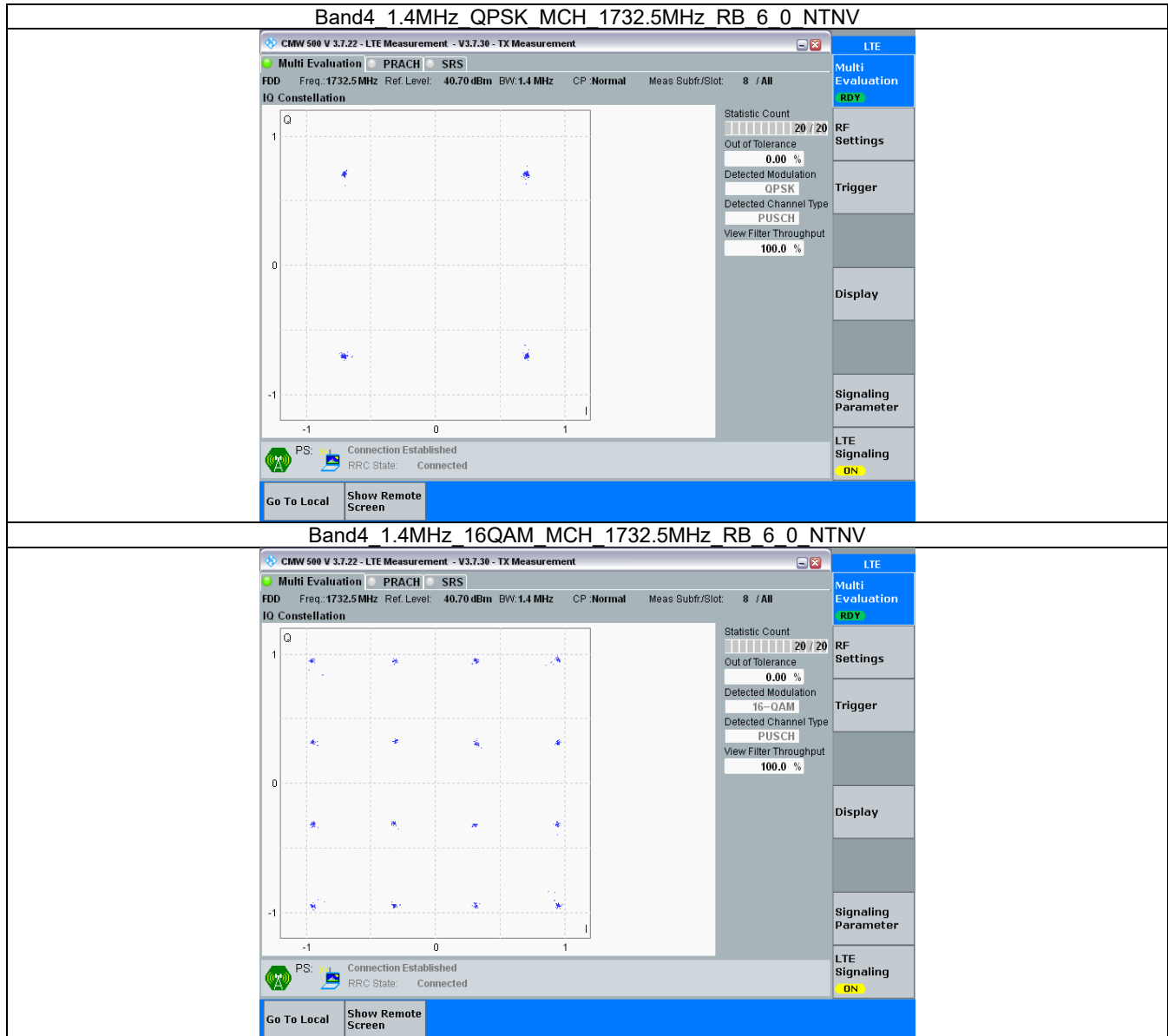
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

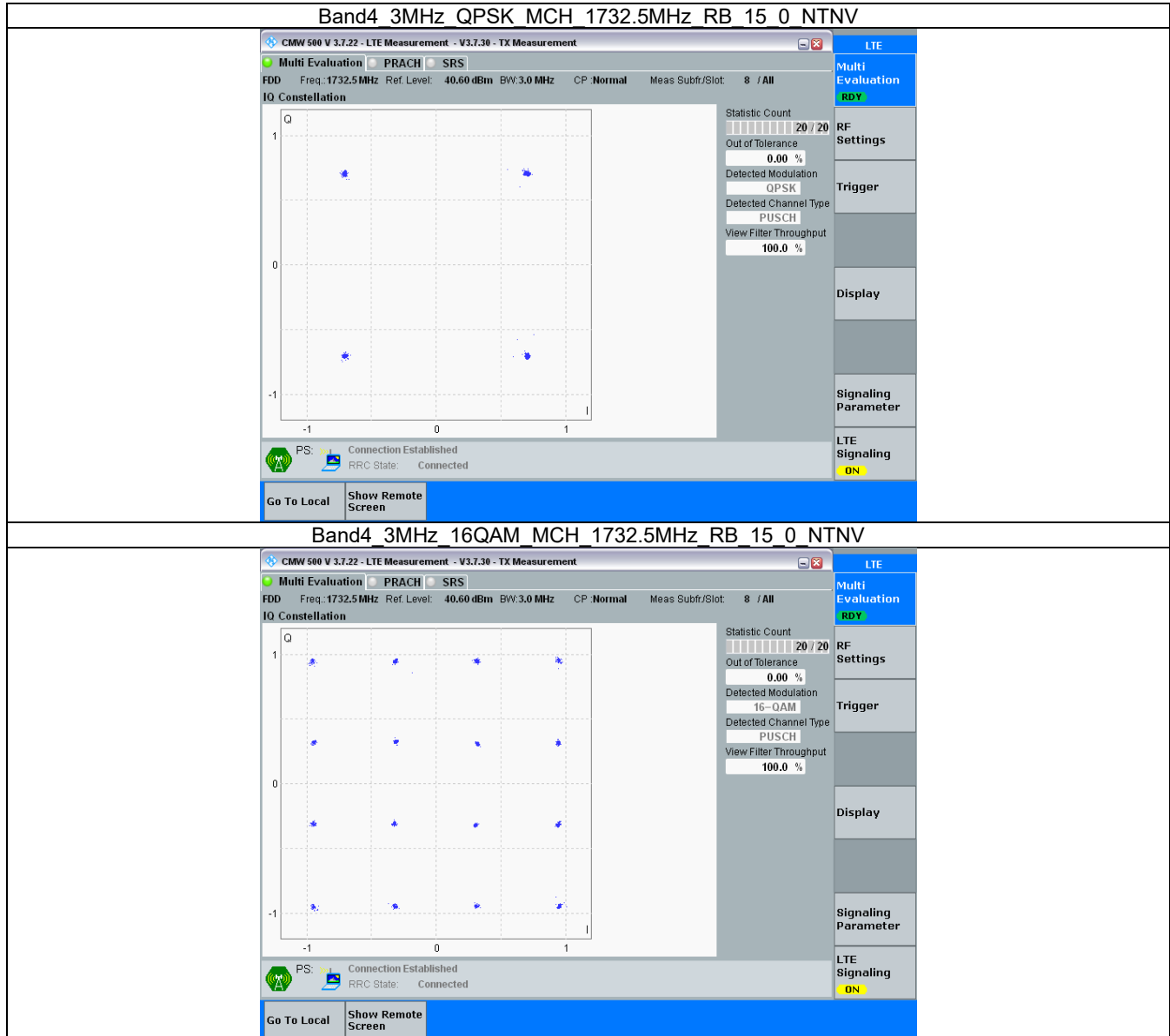
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

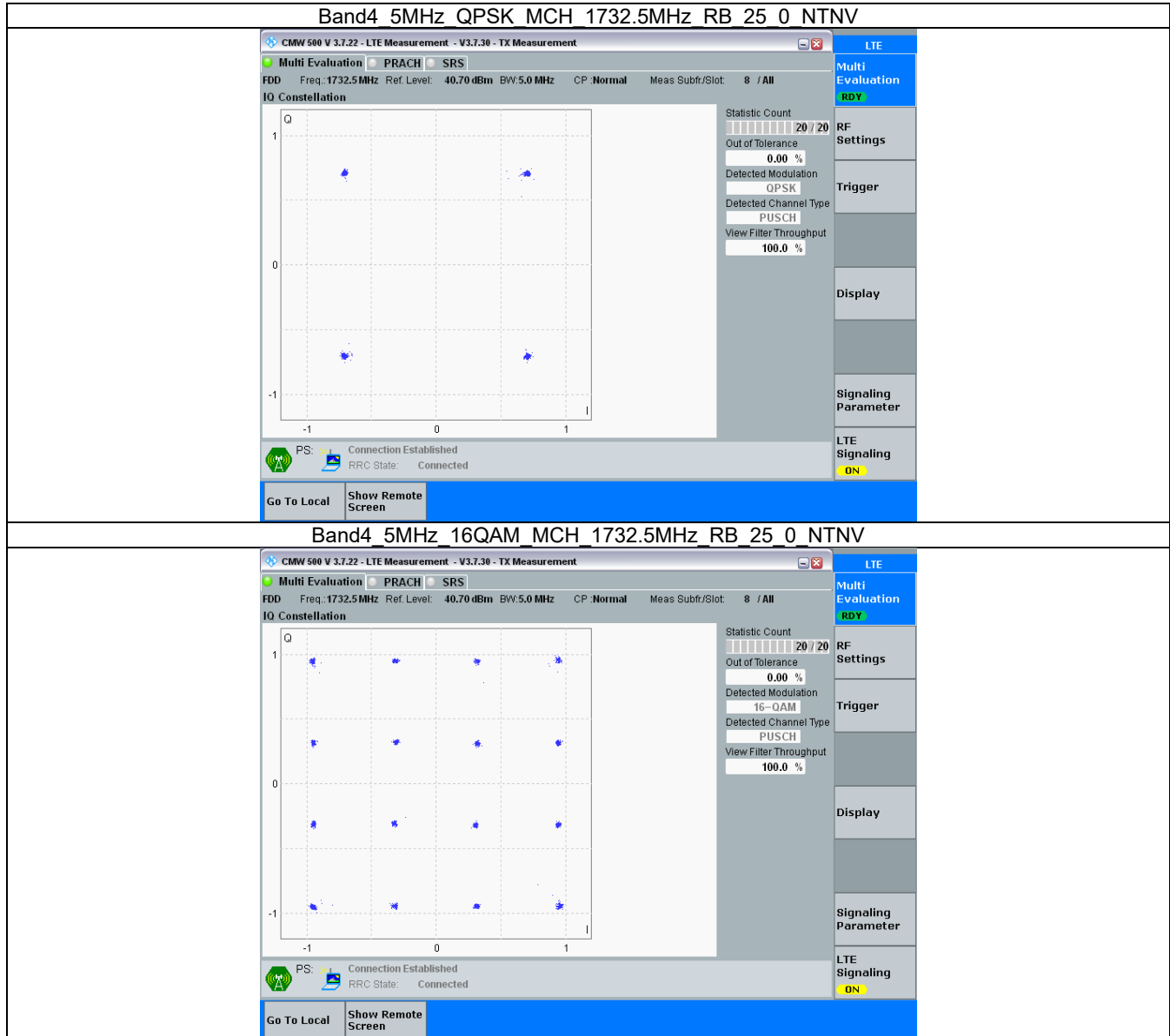
3.2.1 B4_1.4MHz



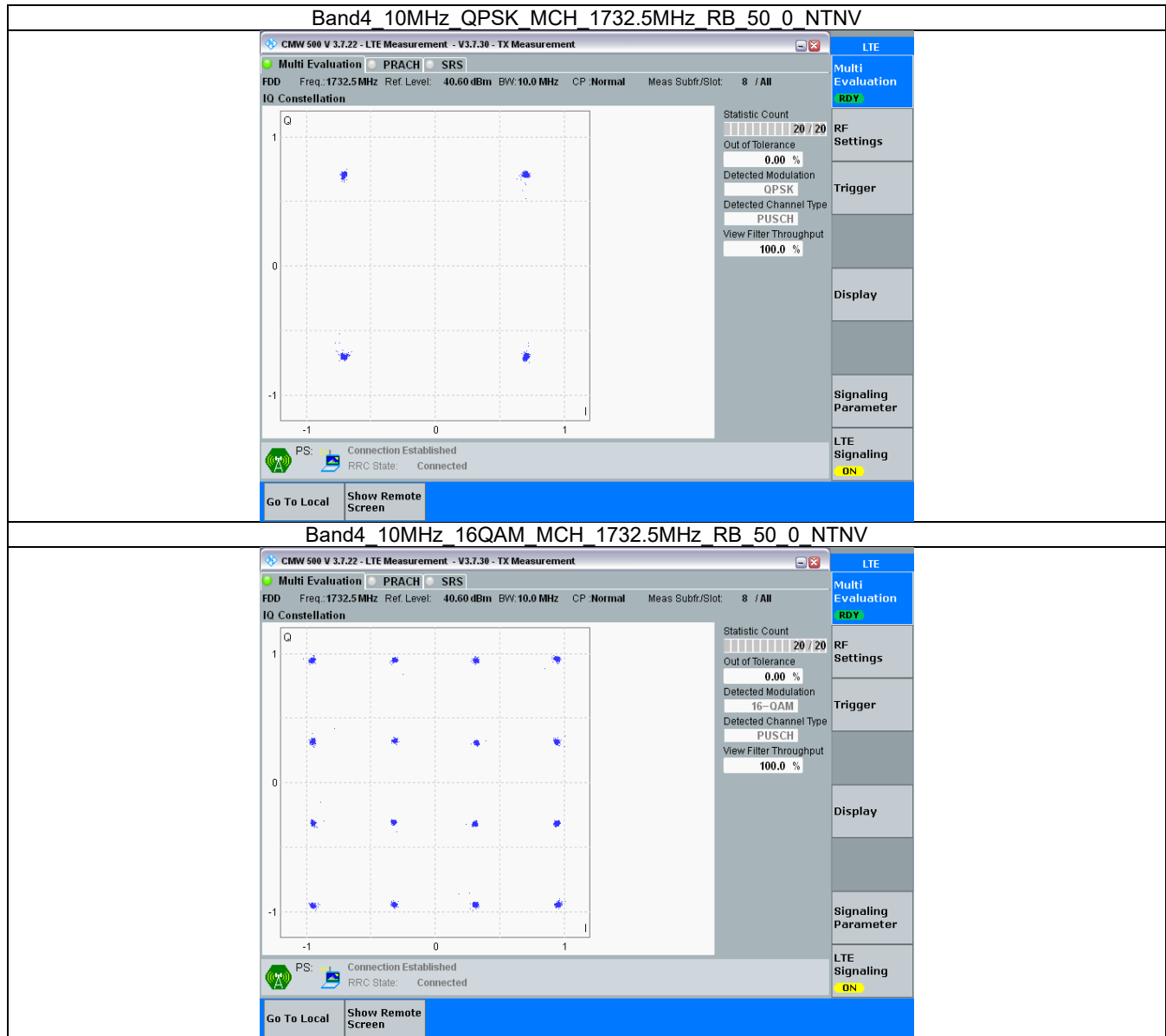
3.2.2 B4_3MHz



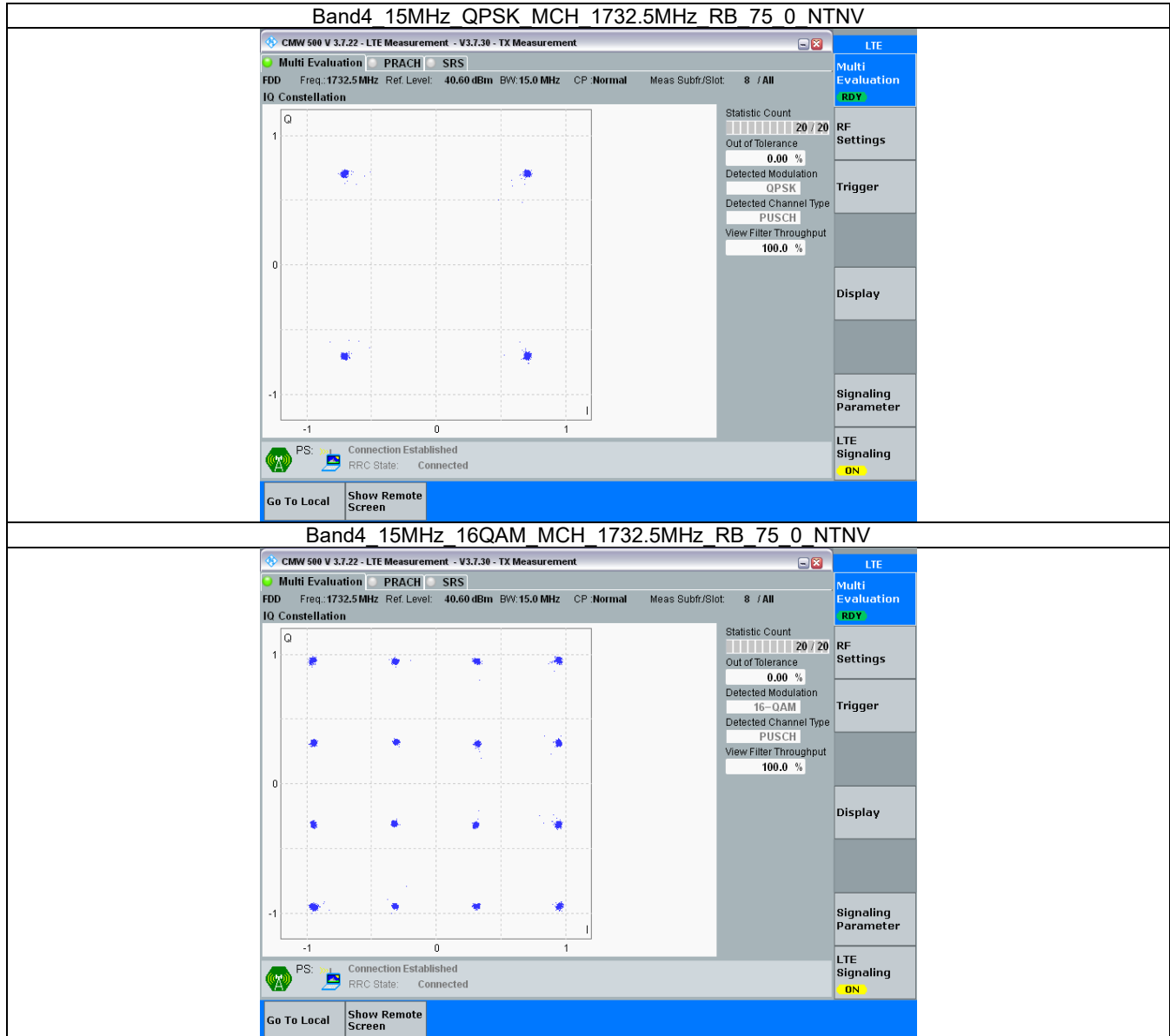
3.2.3 B4_5MHz



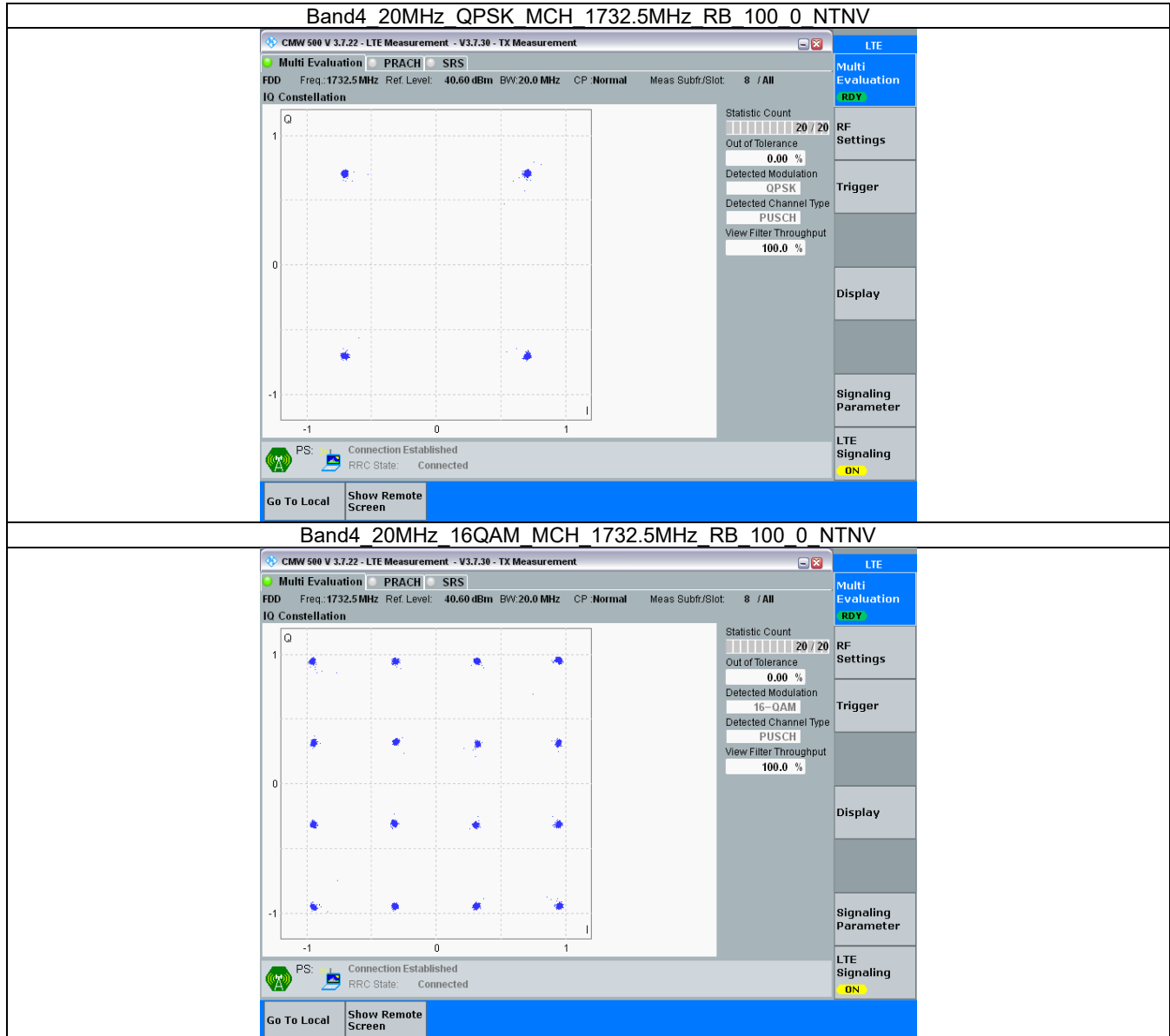
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.110	/	Pass
		1732.5	6	0	1.111	/	Pass
		1754.3	6	0	1.117	/	Pass
	16QAM	1710.7	6	0	1.109	/	Pass
		1732.5	6	0	1.121	/	Pass
		1754.3	6	0	1.109	/	Pass
3	QPSK	1711.5	15	0	2.729	/	Pass
		1732.5	15	0	2.724	/	Pass
		1753.5	15	0	2.729	/	Pass
	16QAM	1711.5	15	0	2.721	/	Pass
		1732.5	15	0	2.733	/	Pass
		1753.5	15	0	2.743	/	Pass
5	QPSK	1712.5	25	0	4.543	/	Pass
		1732.5	25	0	4.546	/	Pass
		1752.5	25	0	4.556	/	Pass
	16QAM	1712.5	25	0	4.546	/	Pass
		1732.5	25	0	4.559	/	Pass
		1752.5	25	0	4.523	/	Pass
10	QPSK	1715	50	0	9.069	/	Pass
		1732.5	50	0	9.032	/	Pass
		1750	50	0	9.078	/	Pass
	16QAM	1715	50	0	9.044	/	Pass
		1732.5	50	0	9.039	/	Pass
		1750	50	0	9.064	/	Pass
15	QPSK	1717.5	75	0	13.553	/	Pass
		1732.5	75	0	13.547	/	Pass
		1747.5	75	0	13.601	/	Pass
	16QAM	1717.5	75	0	13.570	/	Pass
		1732.5	75	0	13.574	/	Pass
		1747.5	75	0	13.617	/	Pass
20	QPSK	1720	100	0	18.100	/	Pass
		1732.5	100	0	18.100	/	Pass
		1745	100	0	18.142	/	Pass
	16QAM	1720	100	0	18.062	/	Pass
		1732.5	100	0	18.064	/	Pass
		1745	100	0	18.104	/	Pass

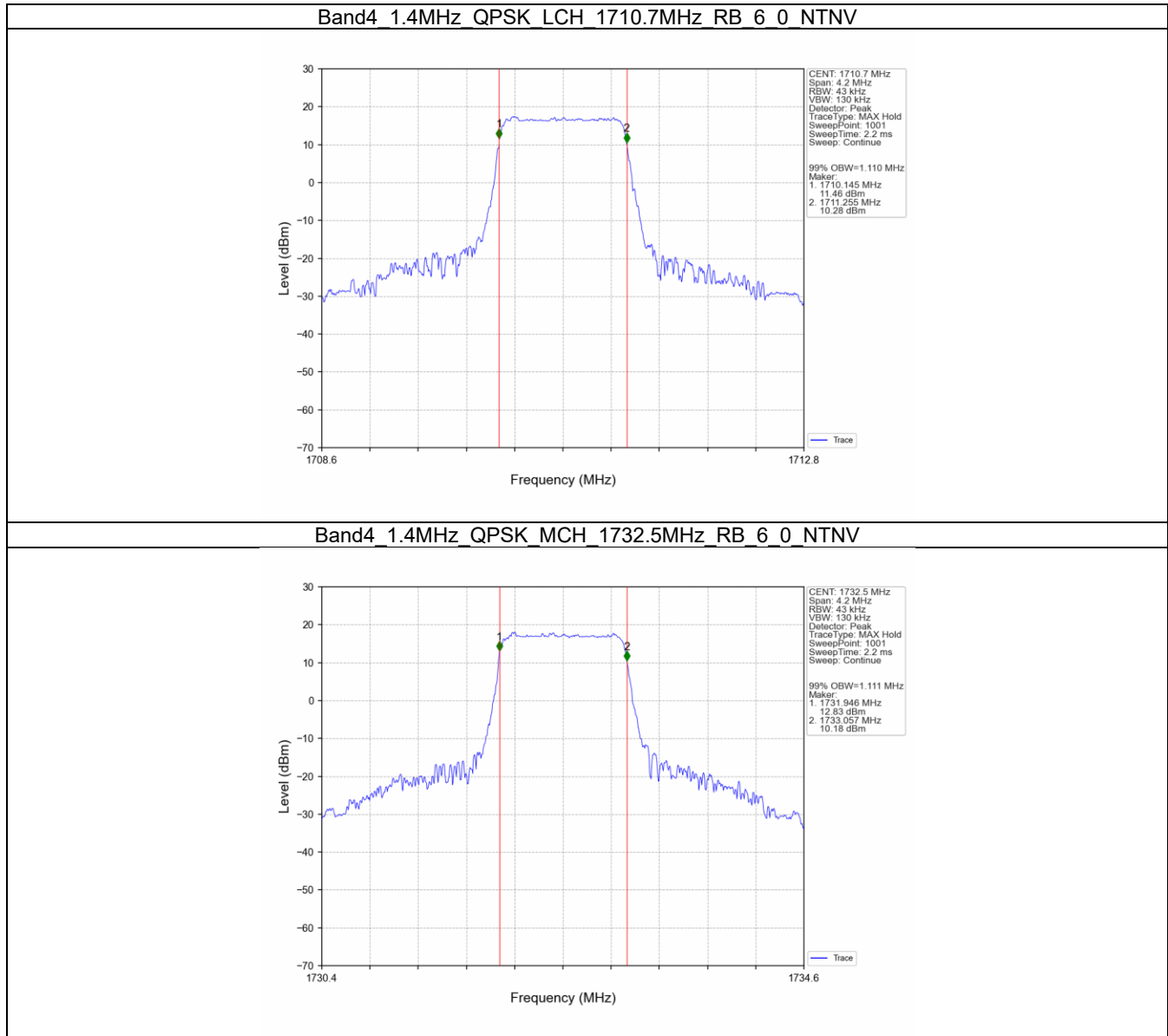
4.1.2 Band4_XDB

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.323	/	Pass
		1732.5	6	0	1.318	/	Pass
		1754.3	6	0	1.315	/	Pass
	16QAM	1710.7	6	0	1.333	/	Pass
		1732.5	6	0	1.343	/	Pass
		1754.3	6	0	1.327	/	Pass
3	QPSK	1711.5	15	0	3.010	/	Pass

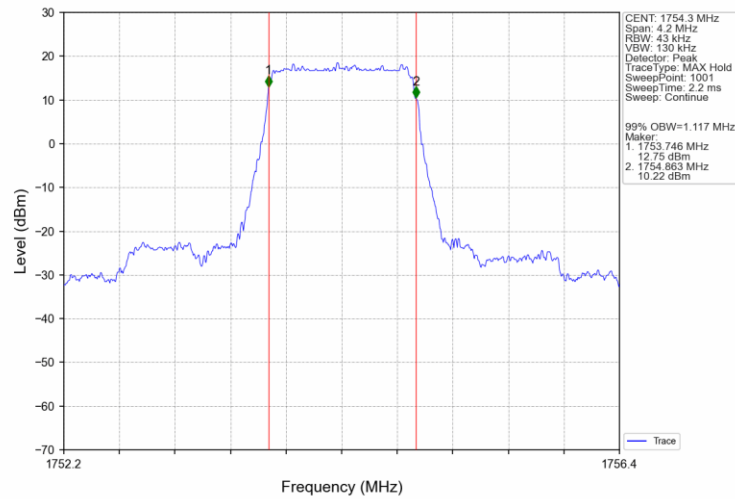
	16QAM	1732.5	15	0	2.986	/	Pass
		1753.5	15	0	3.013	/	Pass
		1711.5	15	0	3.008	/	Pass
		1732.5	15	0	3.020	/	Pass
		1753.5	15	0	2.993	/	Pass
5	QPSK	1712.5	25	0	5.040	/	Pass
		1732.5	25	0	5.061	/	Pass
		1752.5	25	0	5.037	/	Pass
	16QAM	1712.5	25	0	5.056	/	Pass
		1732.5	25	0	5.039	/	Pass
		1752.5	25	0	5.080	/	Pass
10	QPSK	1715	50	0	9.957	/	Pass
		1732.5	50	0	9.989	/	Pass
		1750	50	0	10.065	/	Pass
	16QAM	1715	50	0	10.010	/	Pass
		1732.5	50	0	9.893	/	Pass
		1750	50	0	9.912	/	Pass
15	QPSK	1717.5	75	0	14.818	/	Pass
		1732.5	75	0	14.860	/	Pass
		1747.5	75	0	15.055	/	Pass
	16QAM	1717.5	75	0	14.829	/	Pass
		1732.5	75	0	14.867	/	Pass
		1747.5	75	0	15.502	/	Pass
20	QPSK	1720	100	0	19.872	/	Pass
		1732.5	100	0	19.846	/	Pass
		1745	100	0	19.738	/	Pass
	16QAM	1720	100	0	19.563	/	Pass
		1732.5	100	0	19.709	/	Pass
		1745	100	0	19.864	/	Pass

4.2 Test Graph

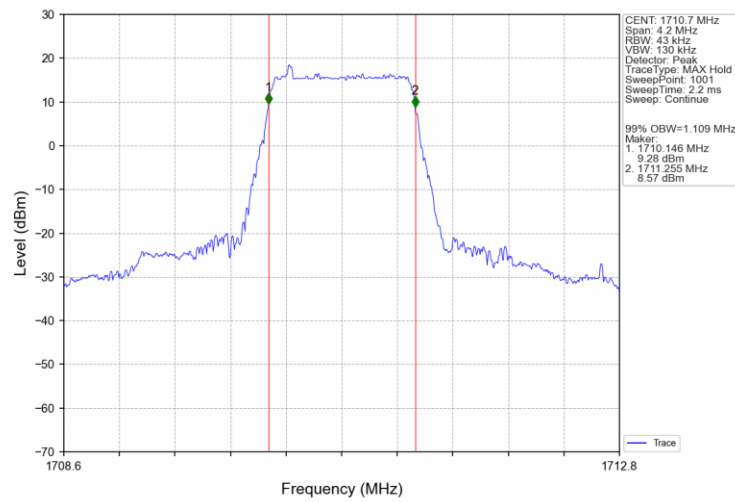
4.2.1 Band4_OBW



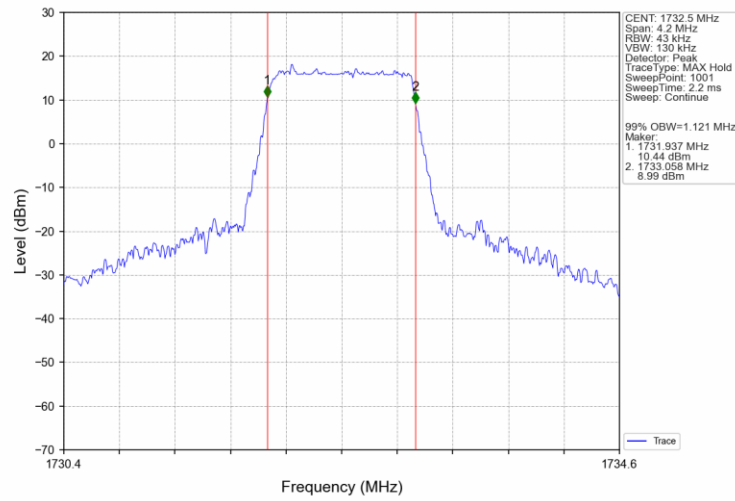
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



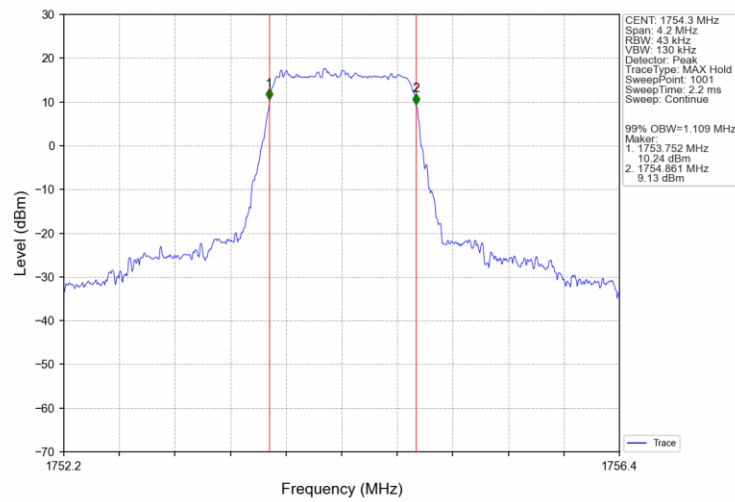
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



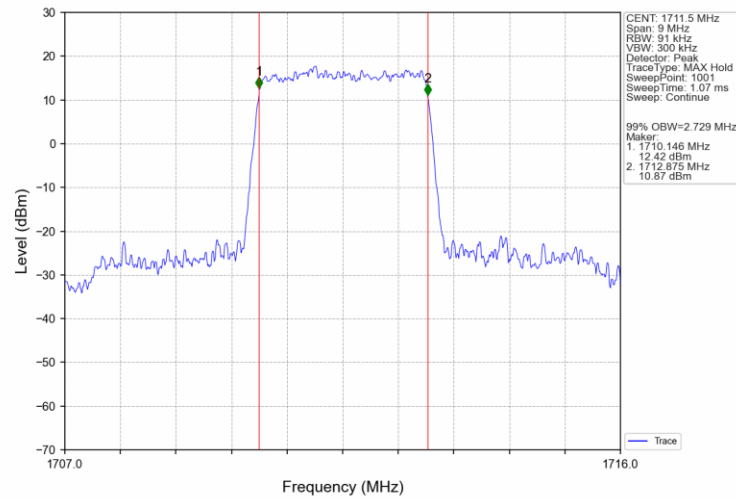
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTN



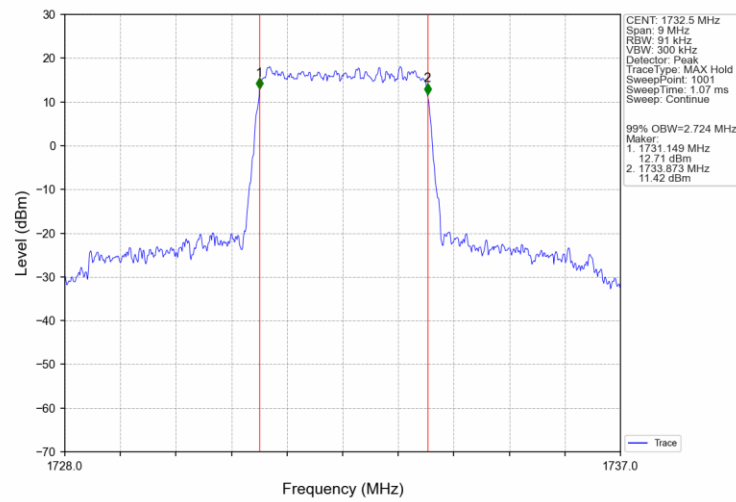
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTN



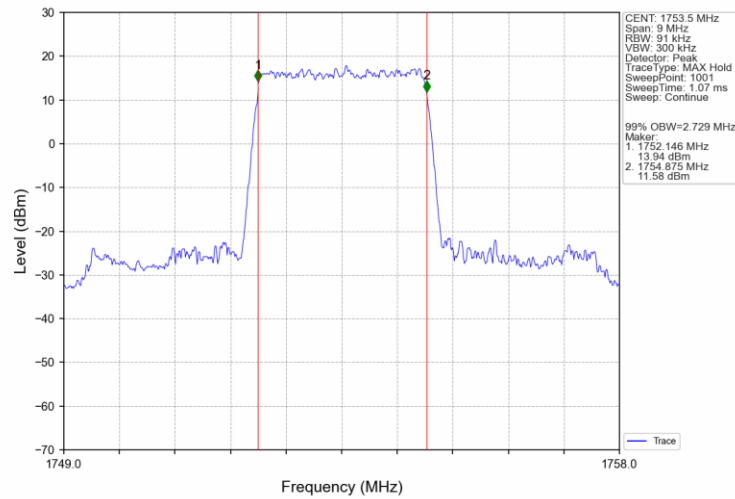
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTV



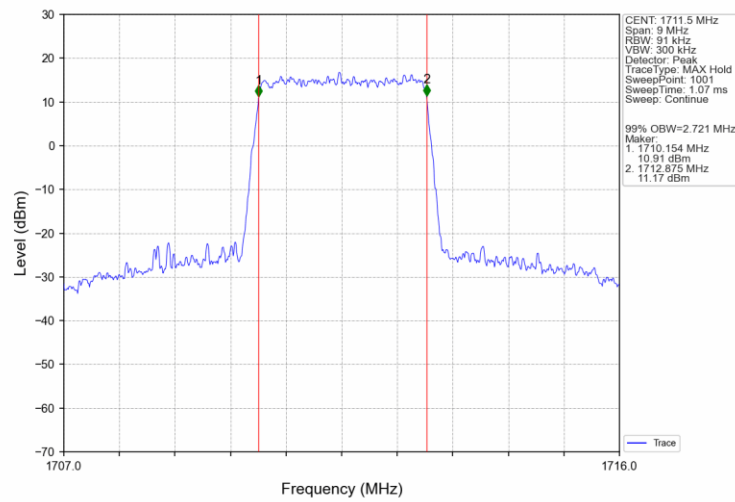
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTV



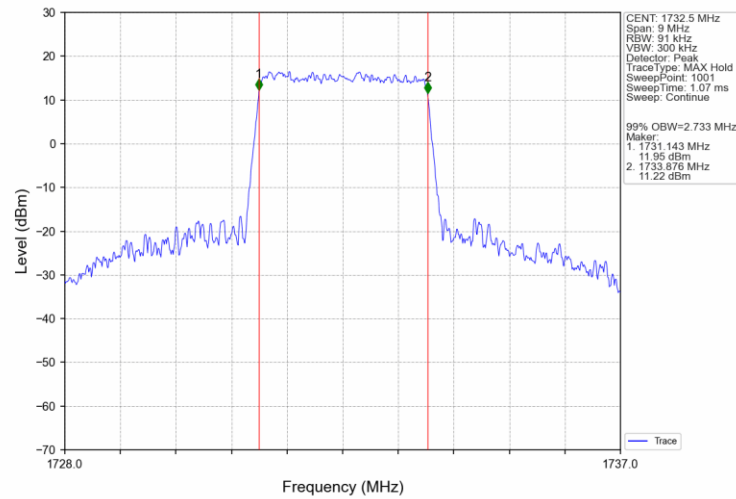
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



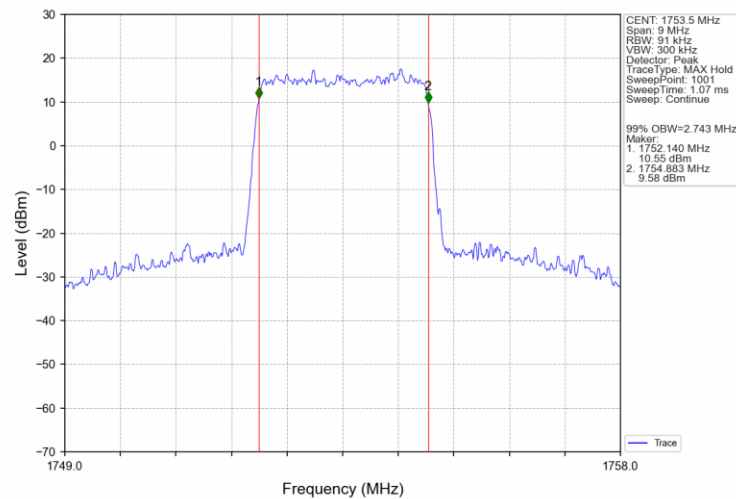
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTV



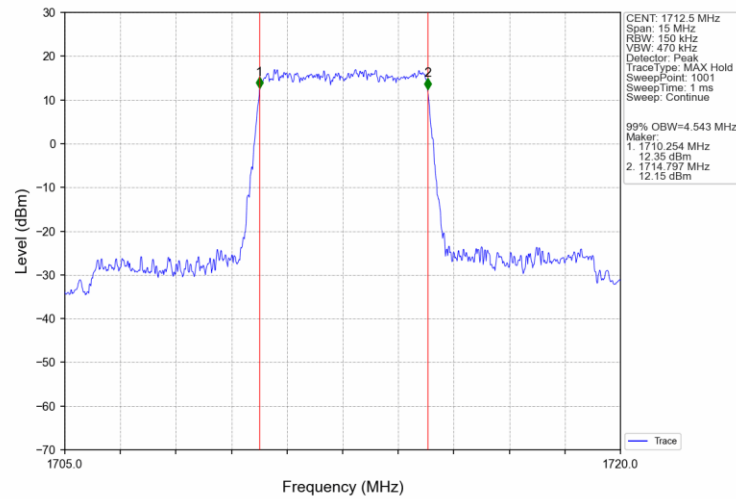
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



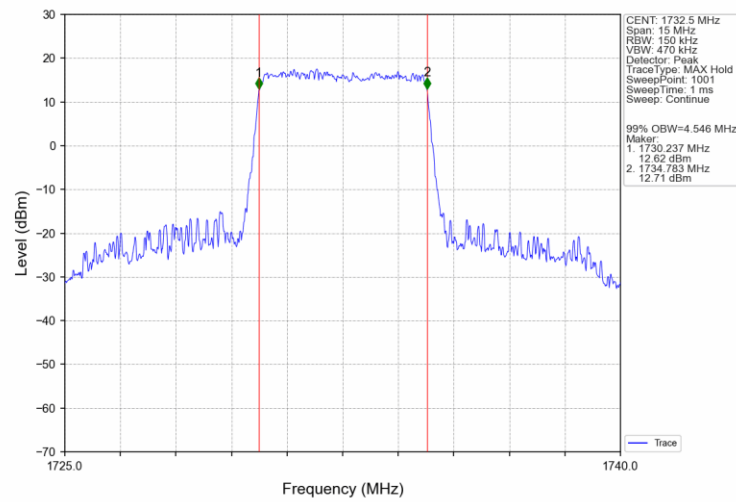
Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



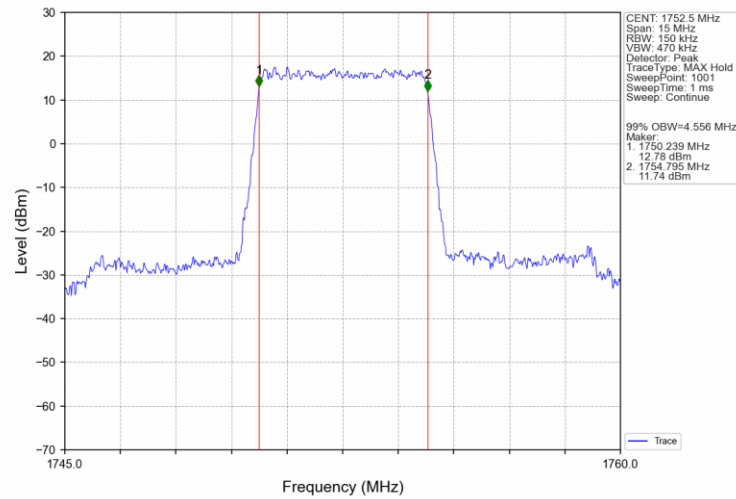
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTV



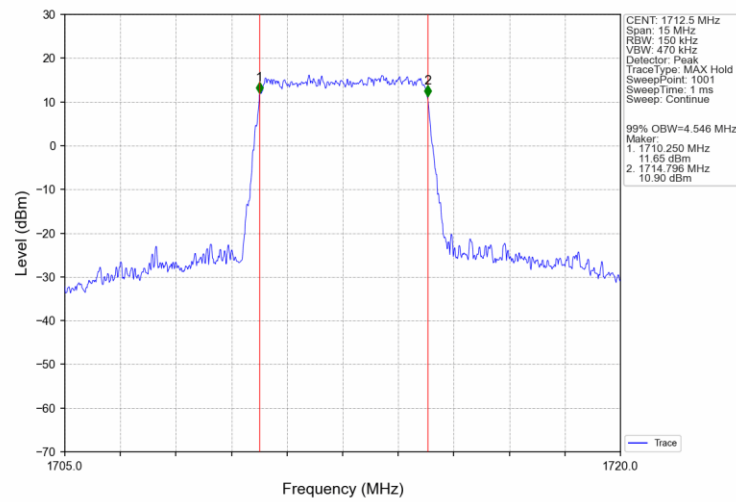
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTV



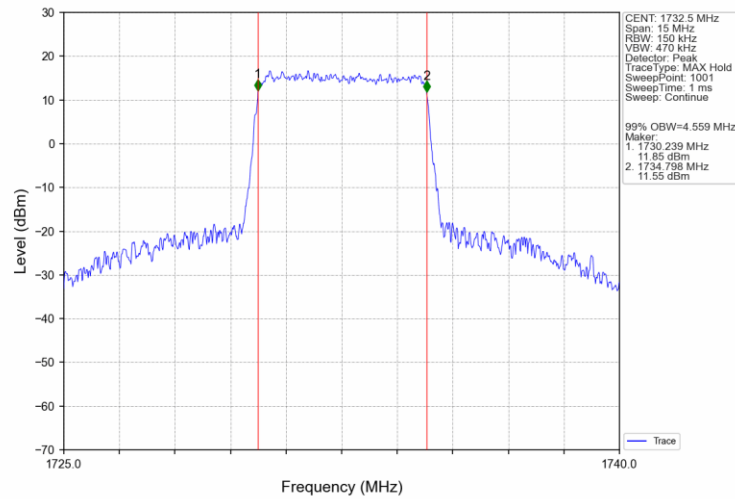
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTN



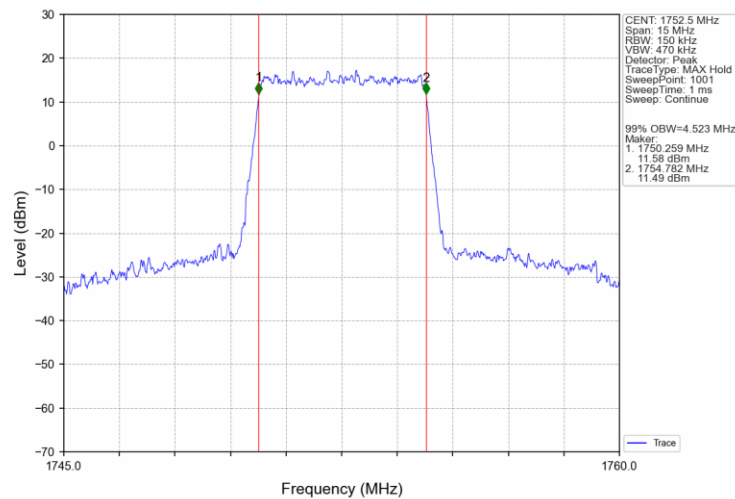
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTN



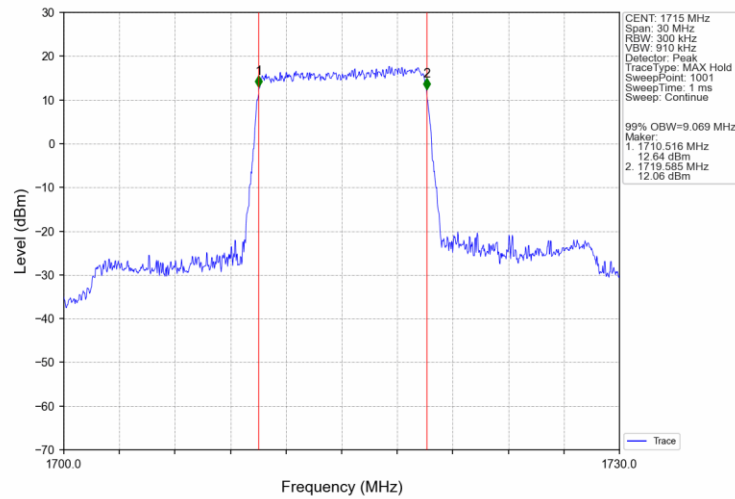
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTN



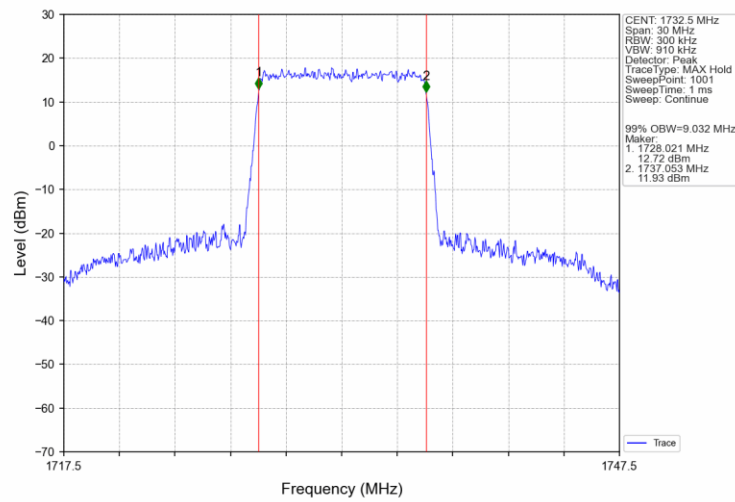
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTN



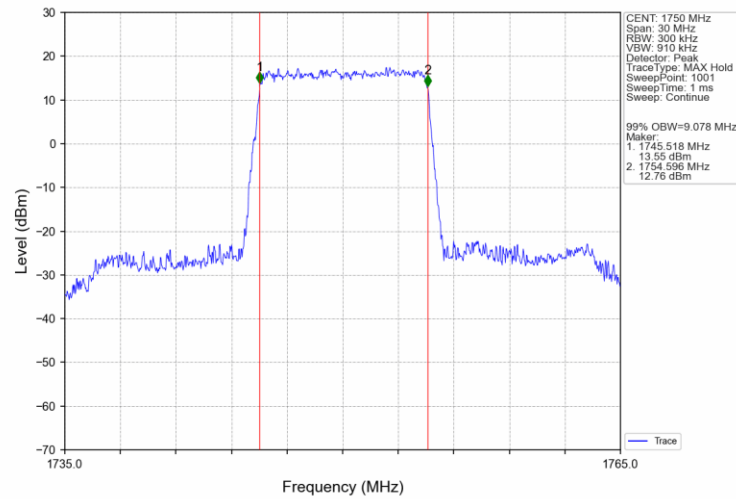
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV



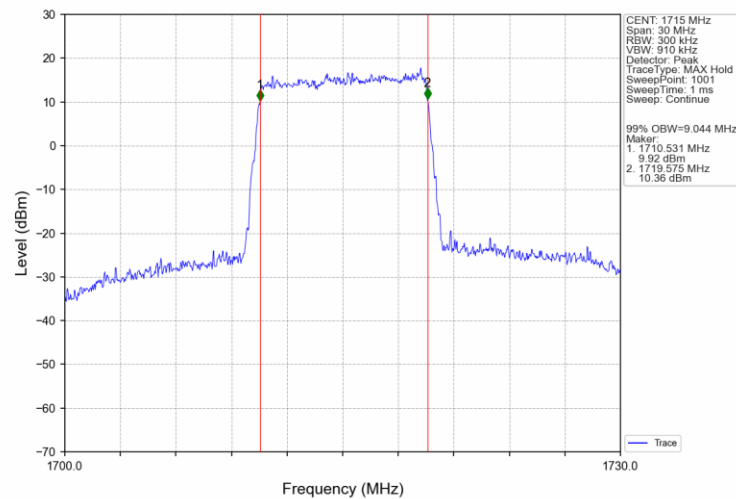
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTNV



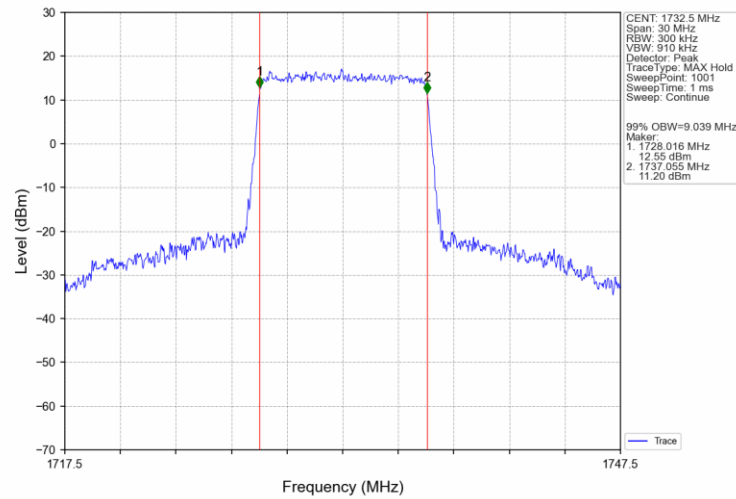
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



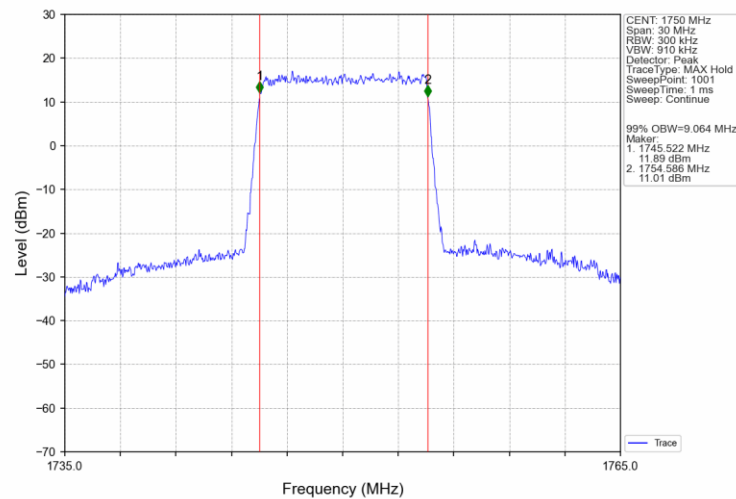
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTN



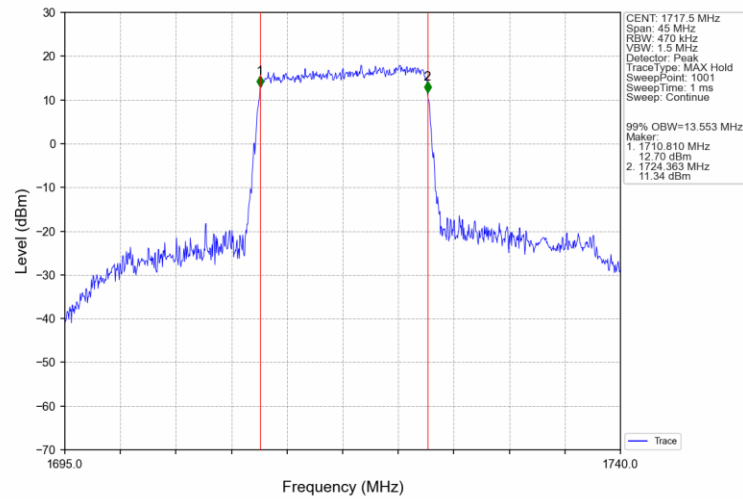
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTN



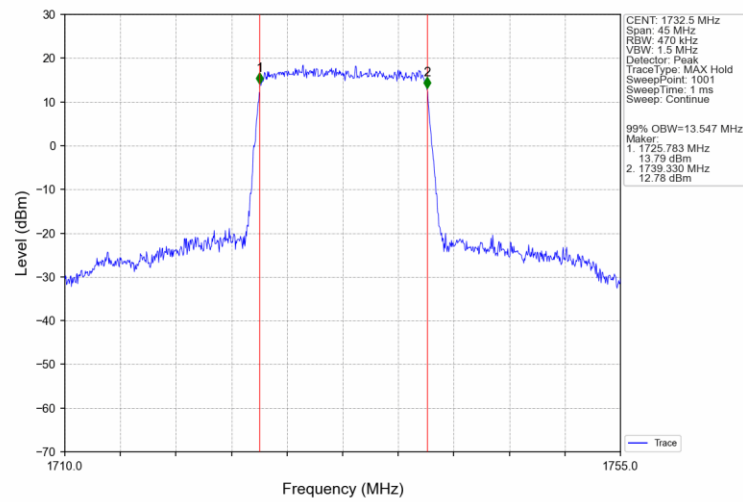
Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTN



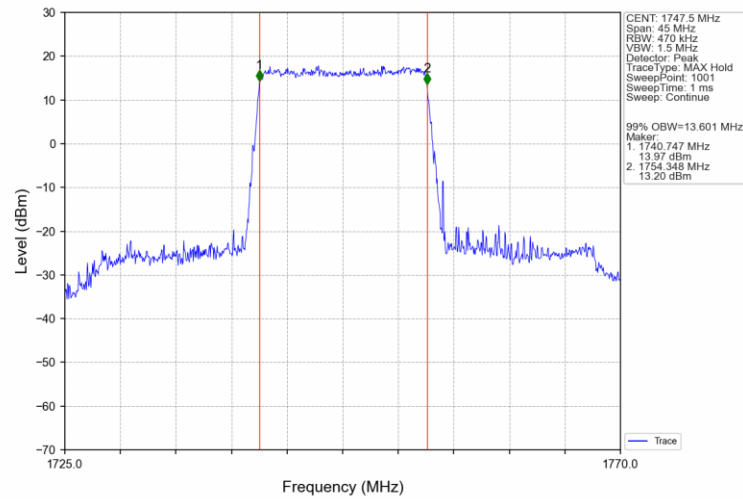
Band4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTV



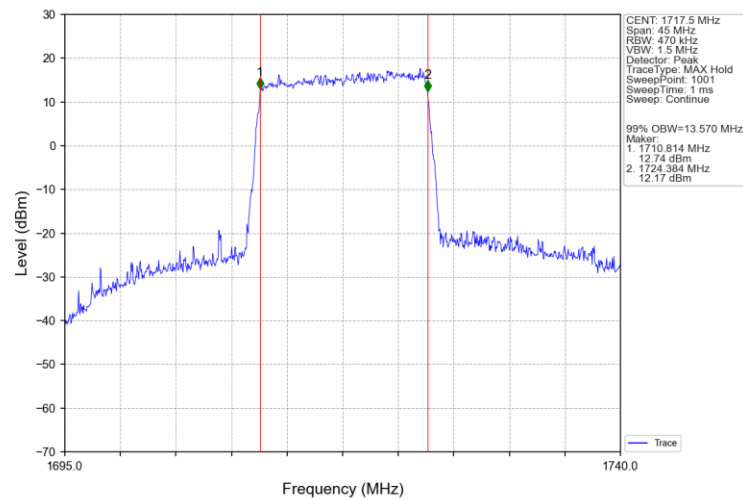
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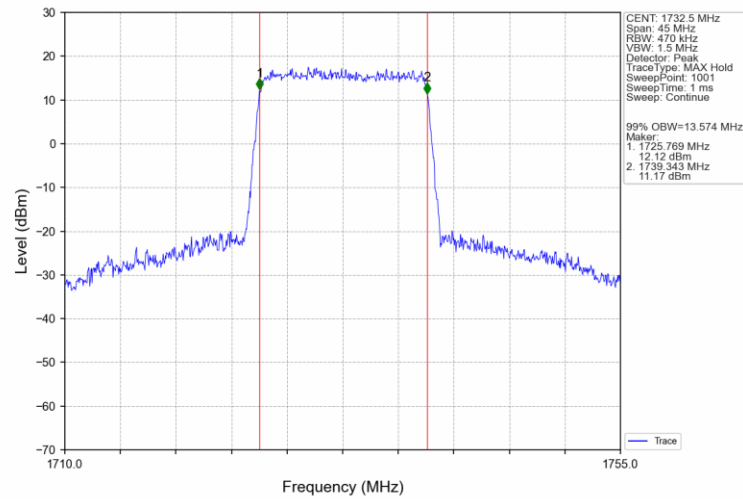
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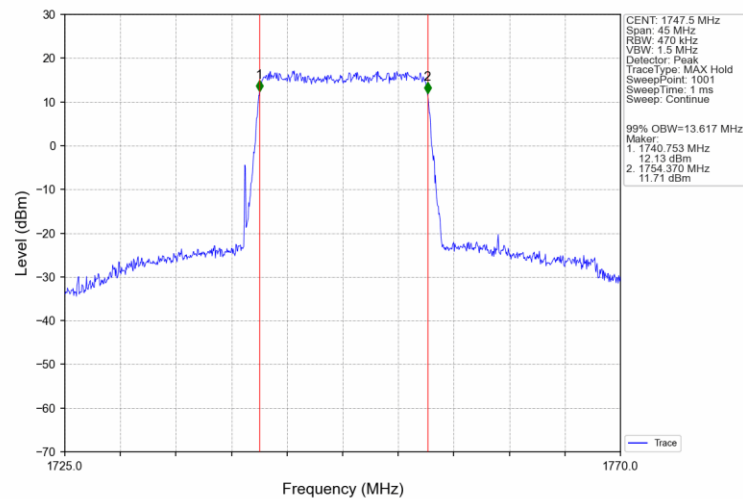
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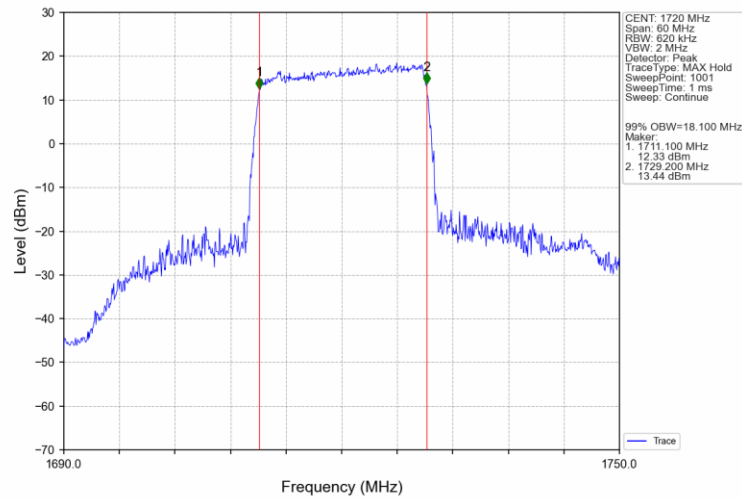
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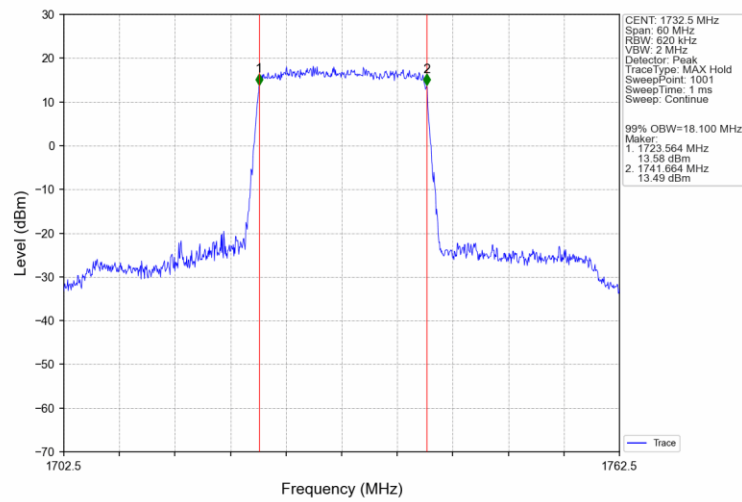
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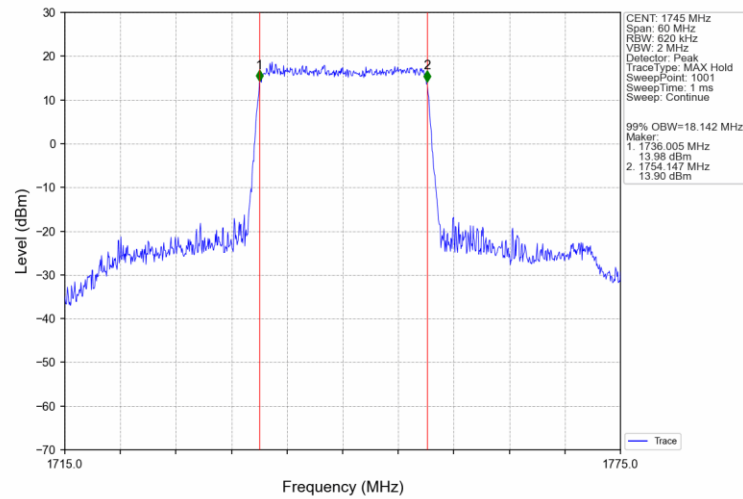
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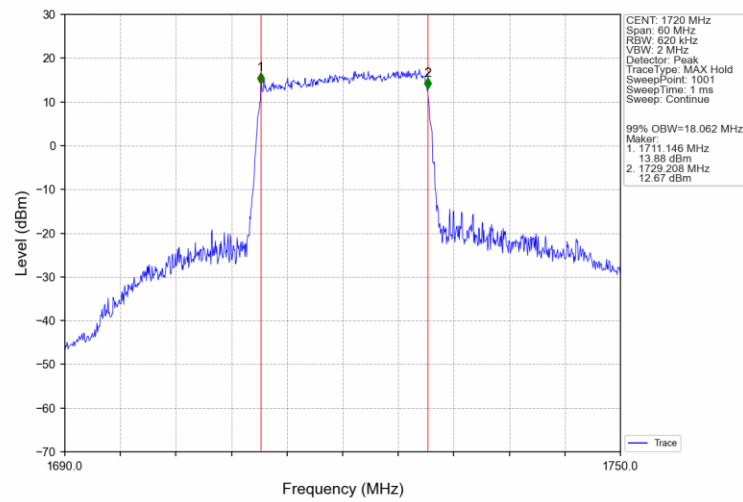
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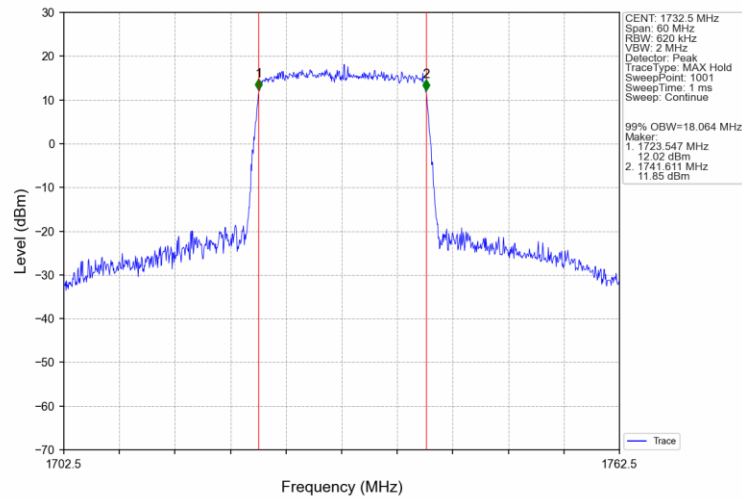
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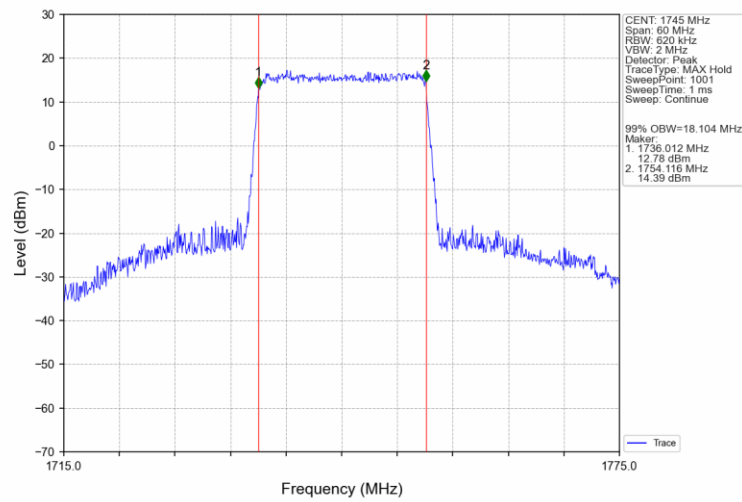
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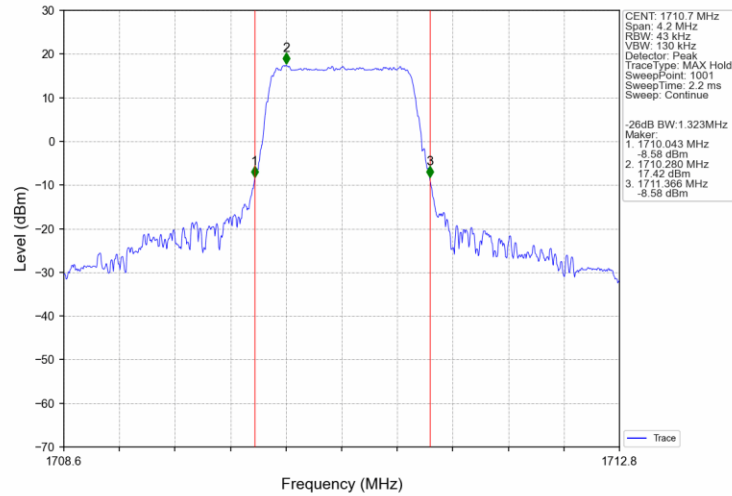


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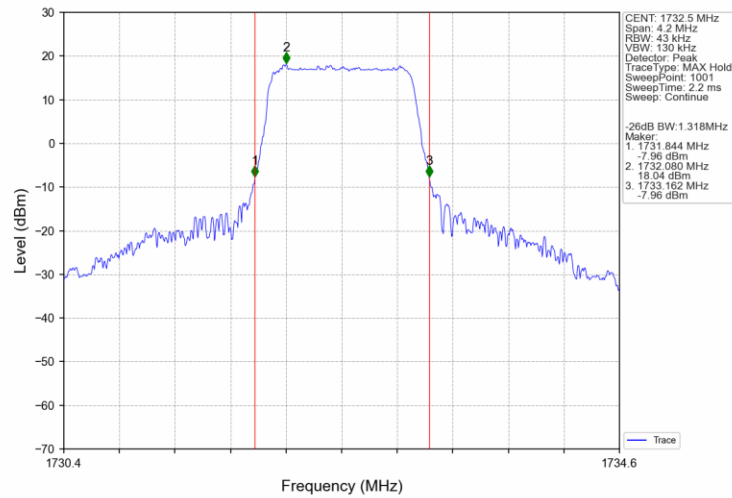


4.2.2 Band4_XDB

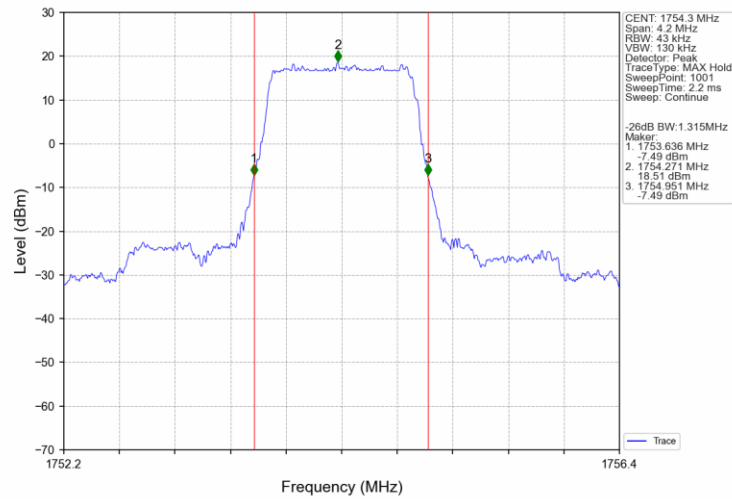
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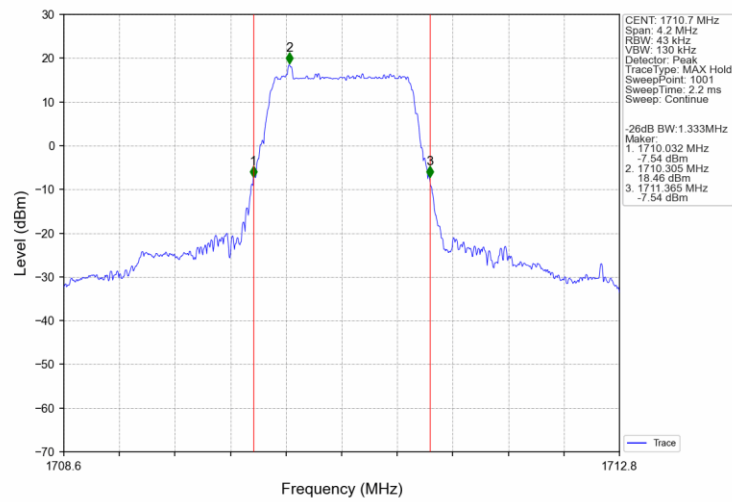
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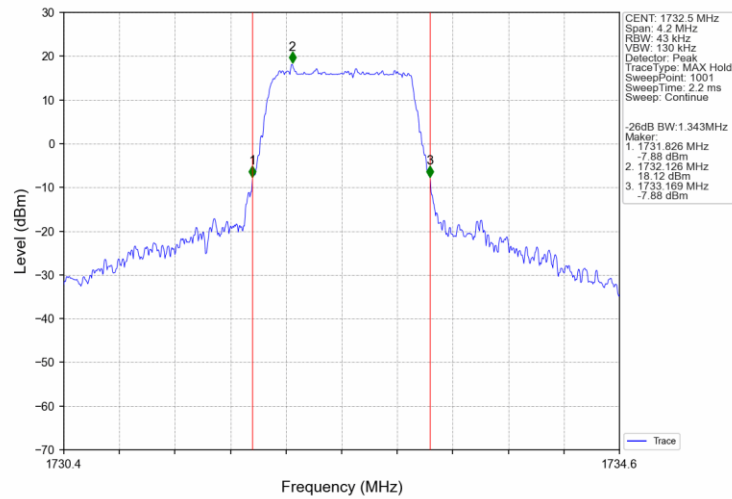
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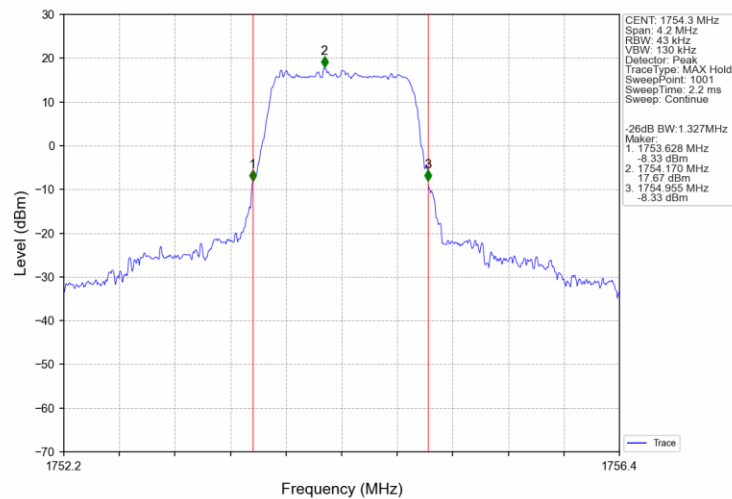
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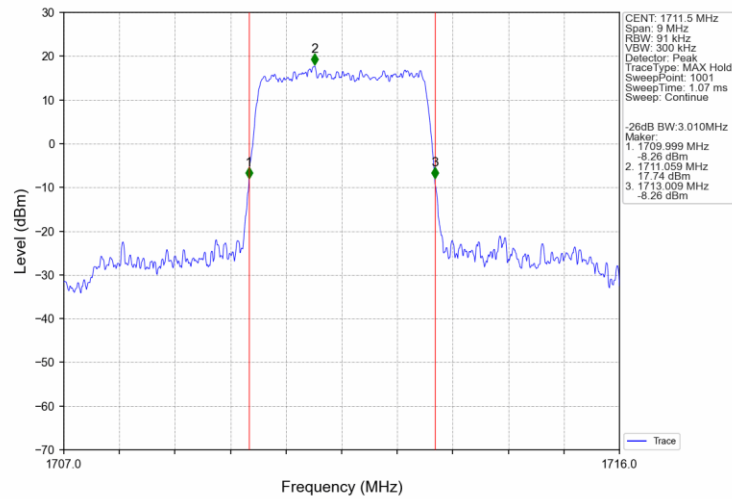
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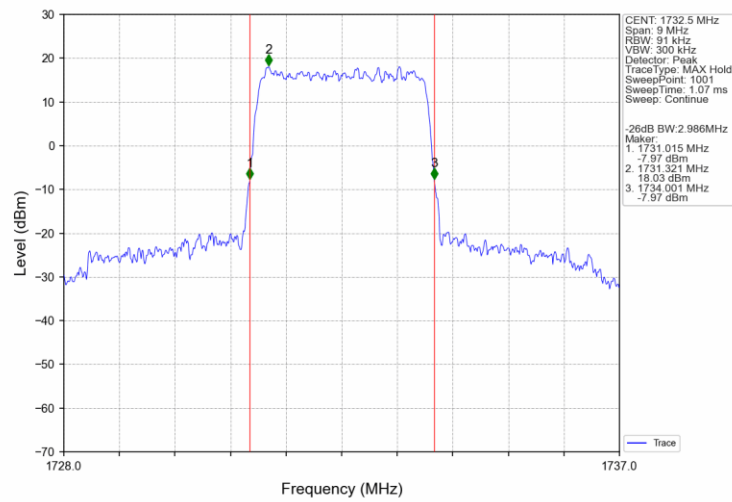
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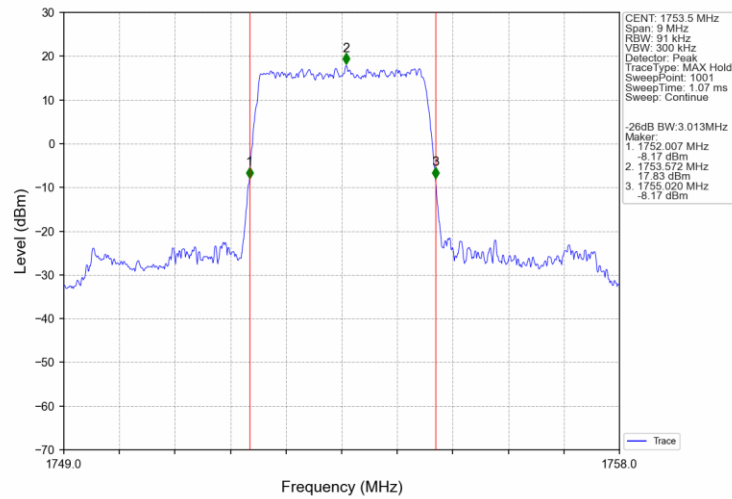
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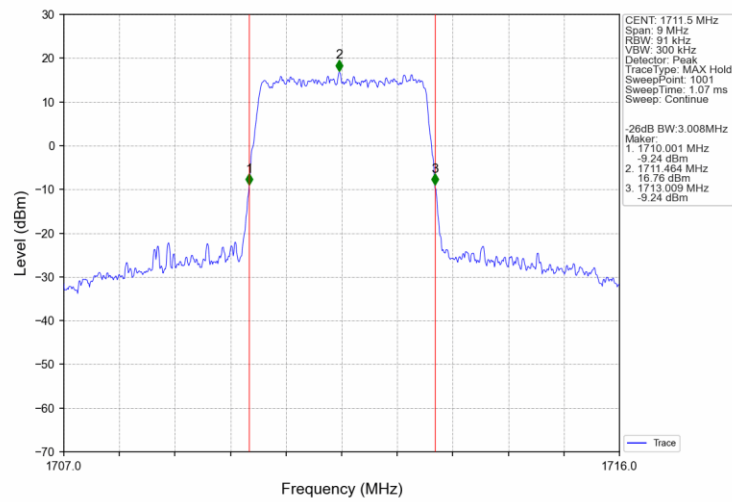
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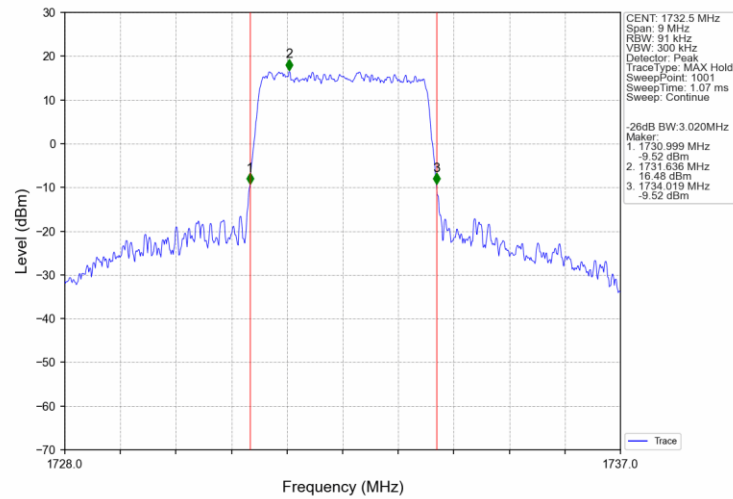
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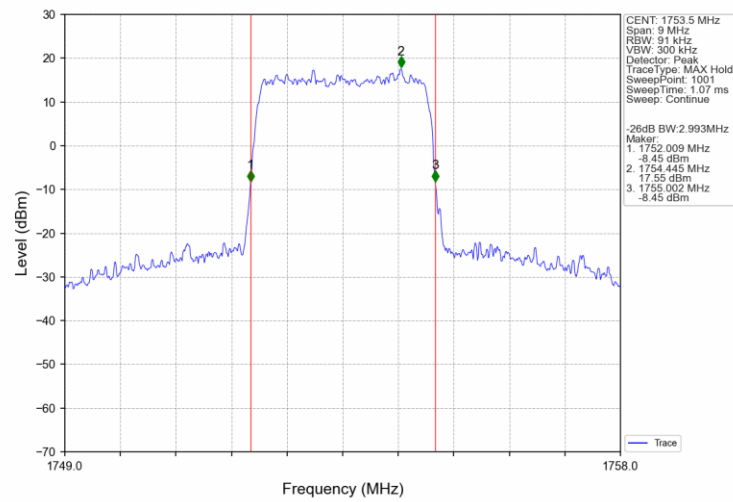
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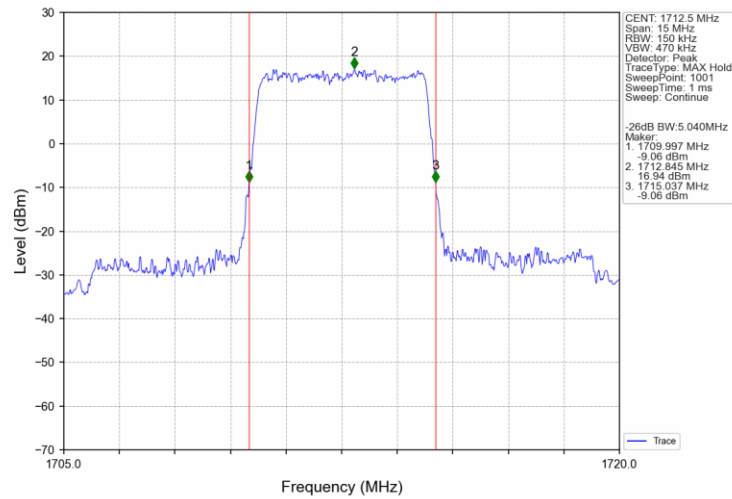
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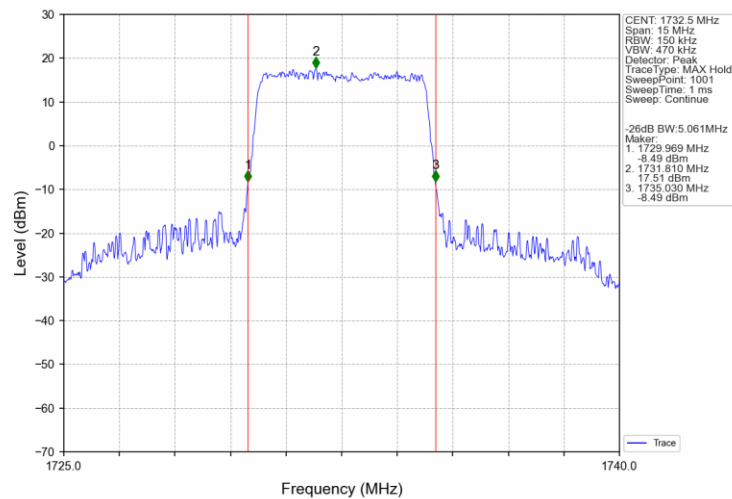
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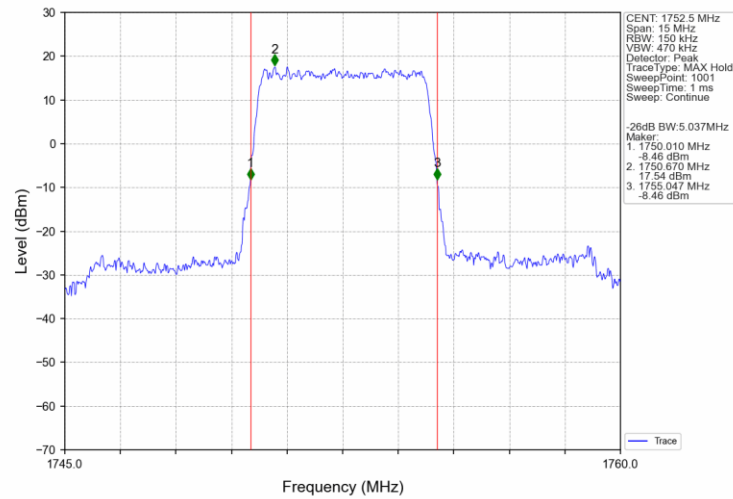
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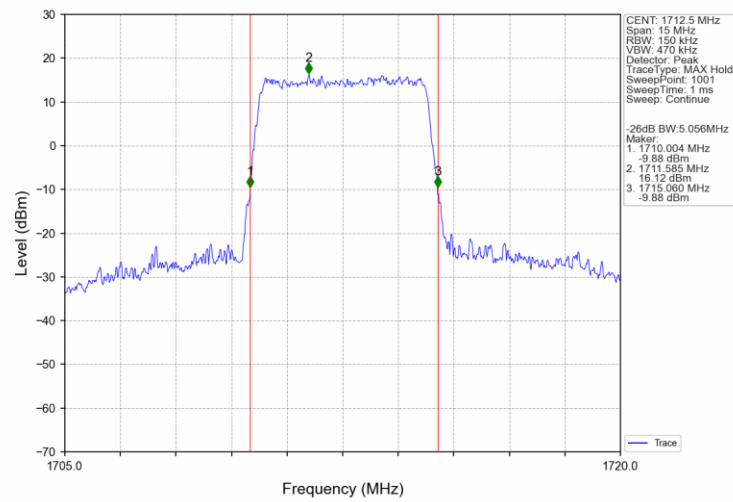
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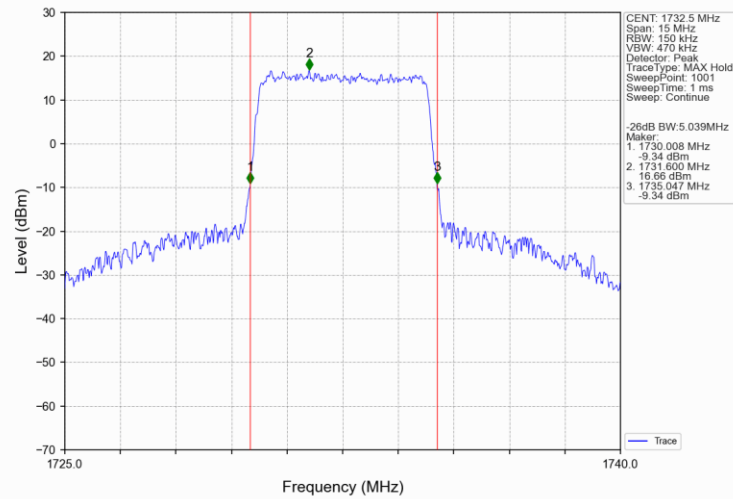
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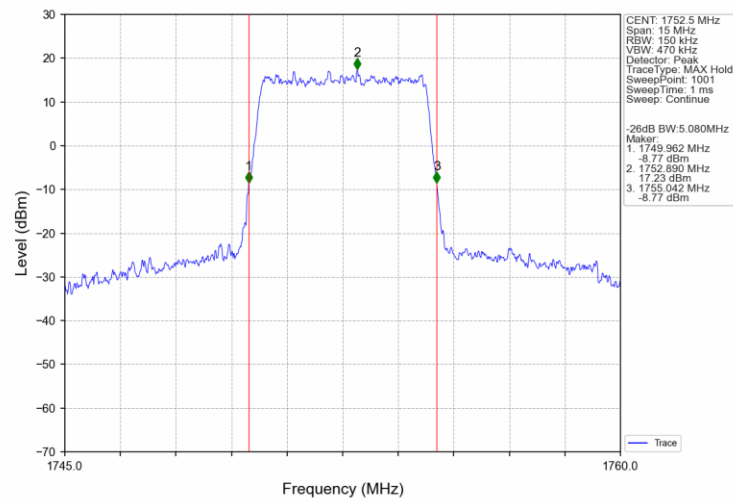
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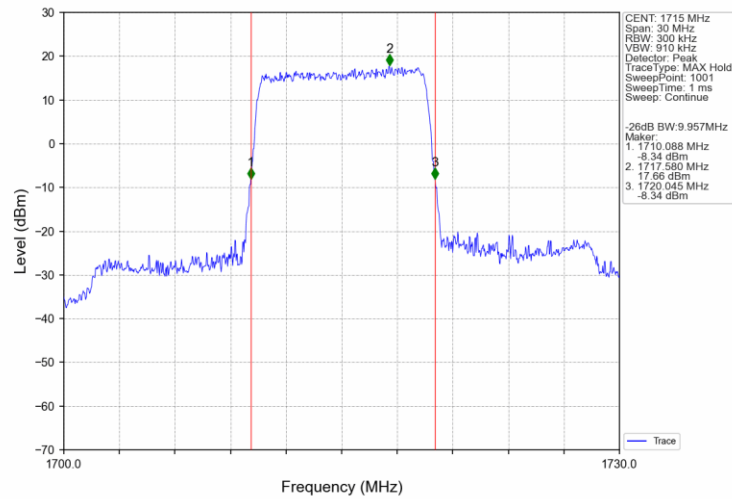
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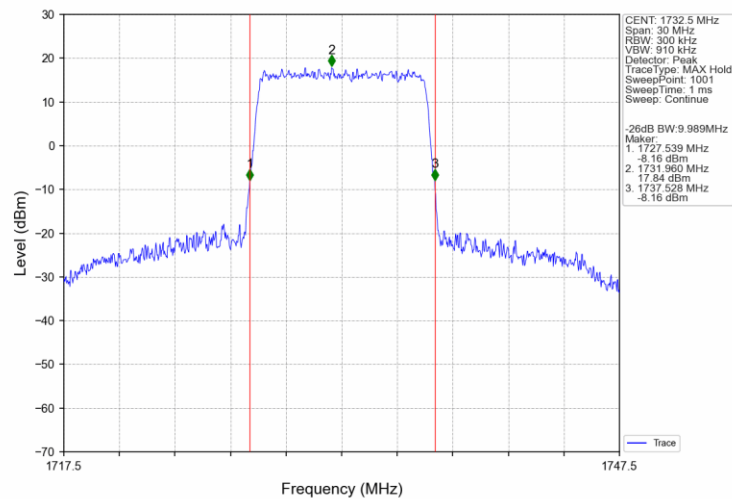
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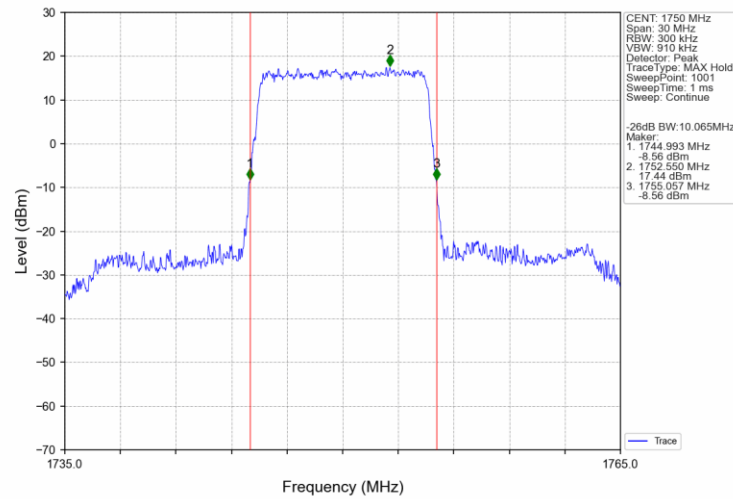
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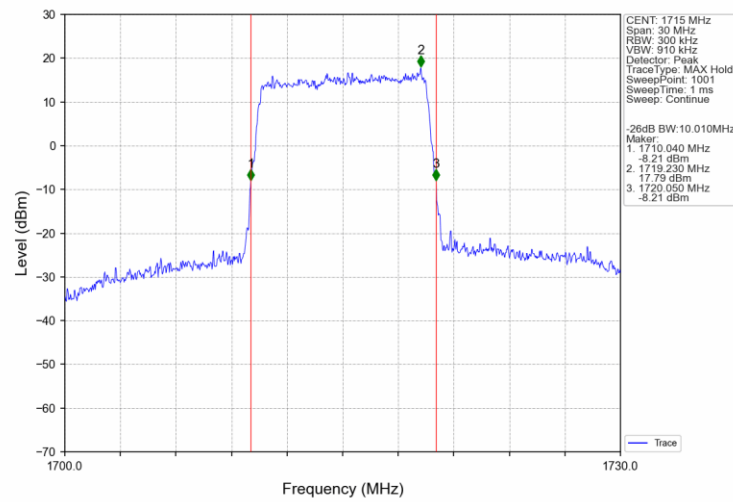
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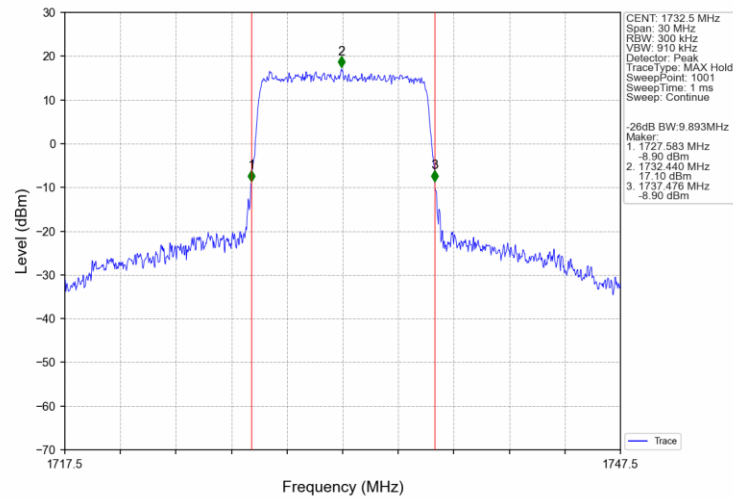
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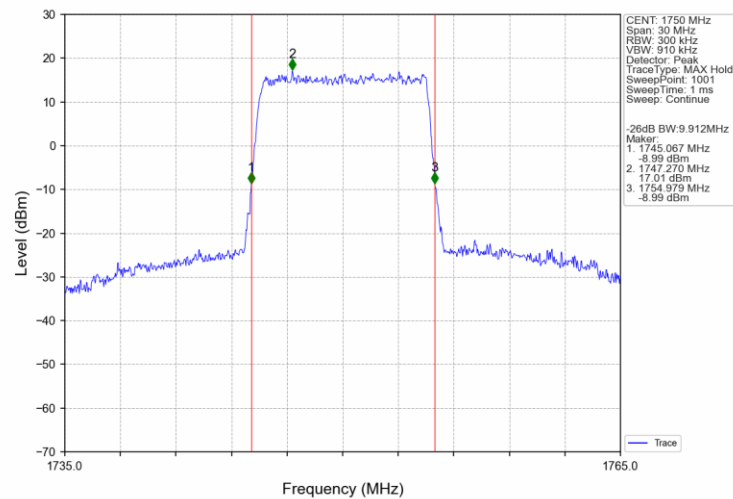
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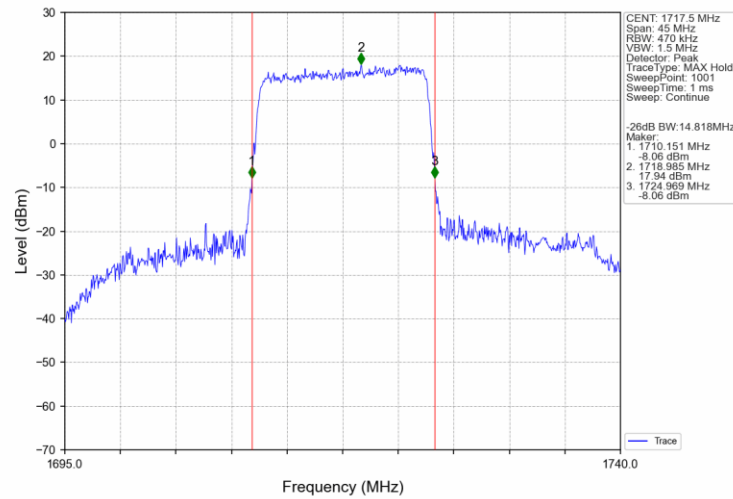
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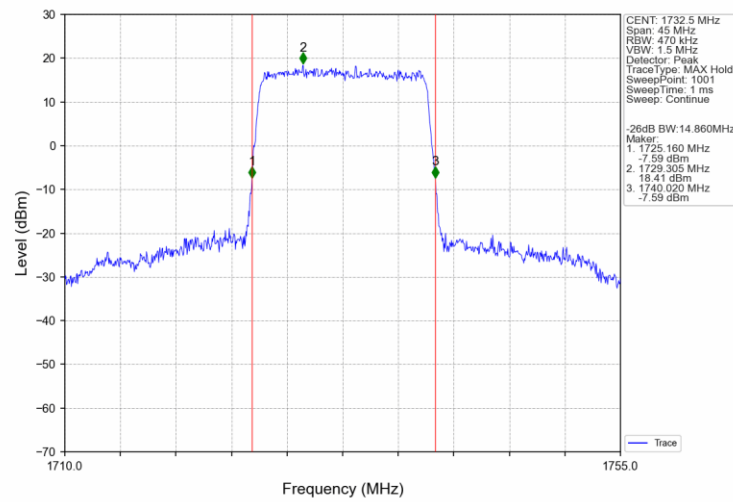
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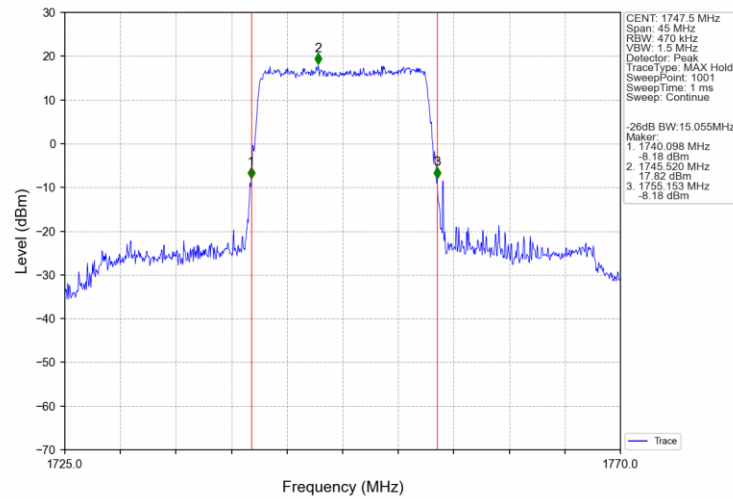
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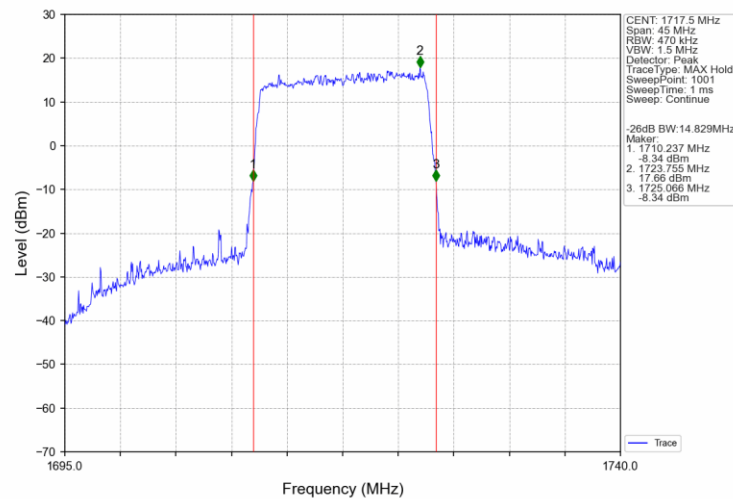
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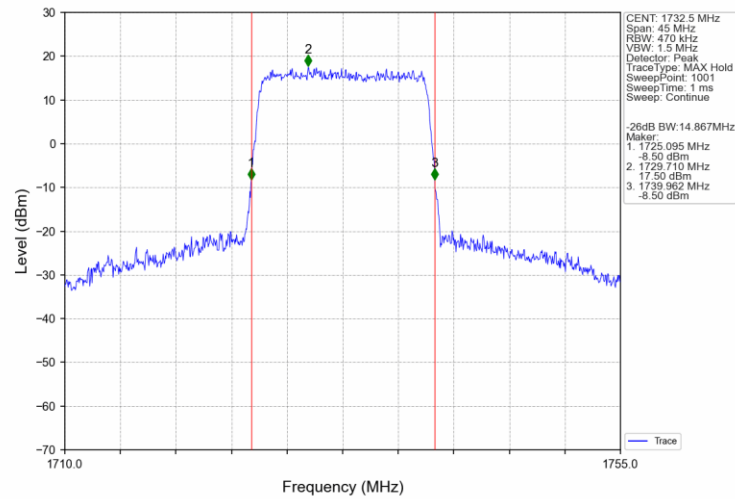
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Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTNV



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Band4 15MHz 16QAM HCH 1747.5MHz RB 75 0 NTNv

