Appendix Test Data for LTE_band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	23.55	-1.32	22.23	<=30	Pass
			2	23.70	-1.32	22.38	<=30	Pass
			5	23.59	-1.32	22.27	<=30	Pass
		3	0	23.59	-1.32	22.27	<=30	Pass
			2	23.64	-1.32	22.32	<=30	Pass
			3	23.60	-1.32	22.28	<=30	Pass
		6	0	22.59	-1.32	21.27	<=30	Pass
	1732.5	1	0	23.42	-1.32	22.10	<=30	Pass
			2	23.55	-1.32	22.23	<=30	Pass
			5	23.42	-1.32	22.10	<=30	Pass
		3	0	23.57	-1.32	22.25	<=30	Pass
			2	23.19	-1.32	21.87	<=30	Pass
			3	23.08	-1.32	21.76	<=30	Pass
		6	0	22.02	-1.32	20.70	<=30	Pass
	1754.3	1	0	22.90	-1.32	21.58	<=30	Pass
			2	23.04	-1.32	21.72	<=30	Pass
			5	22.90	-1.32	21.58	<=30	Pass
		3	0	23.02	-1.32	21.70	<=30	Pass
			2	23.05	-1.32	21.73	<=30	Pass
			3	23.01	-1.32	21.69	<=30	Pass
		6	0	22.02	-1.32	20.70	<=30	Pass
16QAM	1710.7	1	0	22.49	-1.32	21.17	<=30	Pass
			2	22.40	-1.32	21.08	<=30	Pass
			5	22.12	-1.32	20.80	<=30	Pass
		3	0	22.16	-1.32	20.84	<=30	Pass
			2	22.12	-1.32	20.80	<=30	Pass
			3	22.14	-1.32	20.82	<=30	Pass
		6	0	21.02	-1.32	19.70	<=30	Pass
	1732.5	1	0	22.14	-1.32	20.82	<=30	Pass
			2	22.26	-1.32	20.94	<=30	Pass
			5	22.11	-1.32	20.79	<=30	Pass
		3	0	22.06	-1.32	20.74	<=30	Pass
			2	22.10	-1.32	20.78	<=30	Pass
			3	22.05	-1.32	20.73	<=30	Pass
		6	0	21.10	-1.32	19.78	<=30	Pass
	1754.3	1	0	21.87	-1.32	20.55	<=30	Pass
			2	21.98	-1.32	20.66	<=30	Pass
			5	21.87	-1.32	20.55	<=30	Pass
		3	0	22.15	-1.32	20.83	<=30	Pass
			2	22.21	-1.32	20.89	<=30	Pass
			3	22.17	-1.32	20.85	<=30	Pass
		6	0	21.02	-1.32	19.70	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.58	-1.32	22.26	<=30	Pass
			7	23.38	-1.32	22.06	<=30	Pass
			14	23.01	-1.32	21.69	<=30	Pass
		8	0	22.01	-1.32	20.69	<=30	Pass
			4	22.06	-1.32	20.74	<=30	Pass
			7	22.03	-1.32	20.71	<=30	Pass
		15	0	22.02	-1.32	20.70	<=30	Pass
	1732.5	1	0	23.03	-1.32	21.71	<=30	Pass
			7	23.17	-1.32	21.85	<=30	Pass
			14	23.01	-1.32	21.69	<=30	Pass
		8	0	21.99	-1.32	20.67	<=30	Pass
			4	22.03	-1.32	20.71	<=30	Pass
			7	22.00	-1.32	20.68	<=30	Pass
		15	0	21.99	-1.32	20.67	<=30	Pass
	1753.5	1	0	23.00	-1.32	21.68	<=30	Pass
			7	23.13	-1.32	21.81	<=30	Pass
			14	22.98	-1.32	21.66	<=30	Pass
		8	0	22.00	-1.32	20.68	<=30	Pass
			4	22.02	-1.32	20.70	<=30	Pass
			7	22.00	-1.32	20.68	<=30	Pass
		15	0	21.99	-1.32	20.67	<=30	Pass
16QAM	1711.5	1	0	22.56	-1.32	21.24	<=30	Pass
			7	22.62	-1.32	21.30	<=30	Pass
			14	22.46	-1.32	21.14	<=30	Pass
		8	0	21.19	-1.32	19.87	<=30	Pass
			4	21.24	-1.32	19.92	<=30	Pass
			7	21.20	-1.32	19.88	<=30	Pass
		15	0	21.12	-1.32	19.80	<=30	Pass
	1732.5	1	0	22.13	-1.32	20.81	<=30	Pass
			7	22.22	-1.32	20.90	<=30	Pass
			14	22.03	-1.32	20.71	<=30	Pass
		8	0	21.18	-1.32	19.86	<=30	Pass
			4	21.17	-1.32	19.85	<=30	Pass
			7	21.12	-1.32	19.80	<=30	Pass
		15	0	21.13	-1.32	19.81	<=30	Pass
	1753.5	1	0	22.08	-1.32	20.76	<=30	Pass
			7	22.25	-1.32	20.93	<=30	Pass
			14	22.13	-1.32	20.81	<=30	Pass
		8	0	20.97	-1.32	19.65	<=30	Pass
			4	21.01	-1.32	19.69	<=30	Pass
			7	20.96	-1.32	19.64	<=30	Pass
		15	0	20.96	-1.32	19.64	<=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	22.99	-1.32	21.67	<=30	Pass
			13	23.06	-1.32	21.74	<=30	Pass
			24	22.96	-1.32	21.64	<=30	Pass
		12	0	21.98	-1.32	20.66	<=30	Pass
			6	22.06	-1.32	20.74	<=30	Pass
			13	22.07	-1.32	20.75	<=30	Pass
		25	0	21.99	-1.32	20.67	<=30	Pass
	1732.5	1	0	22.97	-1.32	21.65	<=30	Pass
			13	23.08	-1.32	21.76	<=30	Pass
			24	22.94	-1.32	21.62	<=30	Pass
		12	0	22.04	-1.32	20.72	<=30	Pass
			6	22.06	-1.32	20.74	<=30	Pass
			13	22.02	-1.32	20.70	<=30	Pass
		25	0	22.02	-1.32	20.70	<=30	Pass
	1752.5	1	0	22.93	-1.32	21.61	<=30	Pass
			13	23.02	-1.32	21.70	<=30	Pass
			24	22.94	-1.32	21.62	<=30	Pass
		12	0	21.97	-1.32	20.65	<=30	Pass
			6	22.01	-1.32	20.69	<=30	Pass
			13	21.99	-1.32	20.67	<=30	Pass
		25	0	21.94	-1.32	20.62	<=30	Pass
16QAM	1712.5	1	0	21.82	-1.32	20.50	<=30	Pass
			13	21.88	-1.32	20.56	<=30	Pass
			24	21.78	-1.32	20.46	<=30	Pass
		12	0	20.99	-1.32	19.67	<=30	Pass
			6	21.09	-1.32	19.77	<=30	Pass
			13	21.05	-1.32	19.73	<=30	Pass
		25	0	21.12	-1.32	19.80	<=30	Pass
	1732.5	1	0	22.10	-1.32	20.78	<=30	Pass
			13	22.16	-1.32	20.84	<=30	Pass
			24	22.06	-1.32	20.74	<=30	Pass
		12	0	21.07	-1.32	19.75	<=30	Pass
			6	21.11	-1.32	19.79	<=30	Pass
			13	21.06	-1.32	19.74	<=30	Pass
		25	0	21.13	-1.32	19.81	<=30	Pass
	1752.5	1	0	22.11	-1.32	20.79	<=30	Pass
			13	22.23	-1.32	20.91	<=30	Pass
			24	22.13	-1.32	20.81	<=30	Pass
		12	0	21.01	-1.32	19.69	<=30	Pass
			6	21.06	-1.32	19.74	<=30	Pass
			13	21.05	-1.32	19.73	<=30	Pass
		25	0	20.99	-1.32	19.67	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.09	-1.32	21.77	<=30	Pass
			25	23.27	-1.32	21.95	<=30	Pass
			49	23.09	-1.32	21.77	<=30	Pass
		25	0	22.05	-1.32	20.73	<=30	Pass
			13	22.08	-1.32	20.76	<=30	Pass
			25	22.14	-1.32	20.82	<=30	Pass
		50	0	22.10	-1.32	20.78	<=30	Pass
	1732.5	1	0	23.07	-1.32	21.75	<=30	Pass
			25	23.19	-1.32	21.87	<=30	Pass
			49	23.04	-1.32	21.72	<=30	Pass
		25	0	22.15	-1.32	20.83	<=30	Pass
			13	22.06	-1.32	20.74	<=30	Pass
			25	22.07	-1.32	20.75	<=30	Pass
		50	0	22.14	-1.32	20.82	<=30	Pass
	1750	1	0	22.99	-1.32	21.67	<=30	Pass
			25	23.14	-1.32	21.82	<=30	Pass
			49	23.03	-1.32	21.71	<=30	Pass
		25	0	21.99	-1.32	20.67	<=30	Pass
			13	21.99	-1.32	20.67	<=30	Pass
			25	22.03	-1.32	20.71	<=30	Pass
		50	0	22.02	-1.32	20.70	<=30	Pass
16QAM	1715	1	0	22.57	-1.32	21.25	<=30	Pass
			25	22.63	-1.32	21.31	<=30	Pass
			49	22.53	-1.32	21.21	<=30	Pass
		25	0	21.17	-1.32	19.85	<=30	Pass
			13	21.17	-1.32	19.85	<=30	Pass
			25	21.26	-1.32	19.94	<=30	Pass
		50	0	21.15	-1.32	19.83	<=30	Pass
	1732.5	1	0	22.08	-1.32	20.76	<=30	Pass
			25	22.23	-1.32	20.91	<=30	Pass
			49	22.06	-1.32	20.74	<=30	Pass
		25	0	21.27	-1.32	19.95	<=30	Pass
			13	21.26	-1.32	19.94	<=30	Pass
			25	21.22	-1.32	19.90	<=30	Pass
		50	0	21.24	-1.32	19.92	<=30	Pass
	1750	1	0	22.09	-1.32	20.77	<=30	Pass
			25	22.26	-1.32	20.94	<=30	Pass
			49	22.13	-1.32	20.81	<=30	Pass
		25	0	21.04	-1.32	19.72	<=30	Pass
			13	21.05	-1.32	19.73	<=30	Pass
			25	21.09	-1.32	19.77	<=30	Pass
		50	0	21.05	-1.32	19.73	<=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	22.99	-1.32	21.67	<=30	Pass
			38	23.11	-1.32	21.79	<=30	Pass
			74	22.97	-1.32	21.65	<=30	Pass
		36	0	22.13	-1.32	20.81	<=30	Pass
			18	22.22	-1.32	20.90	<=30	Pass
			39	22.22	-1.32	20.90	<=30	Pass
		75	0	22.21	-1.32	20.89	<=30	Pass
	1732.5	1	0	22.98	-1.32	21.66	<=30	Pass
			38	23.01	-1.32	21.69	<=30	Pass
			74	22.86	-1.32	21.54	<=30	Pass
		36	0	22.14	-1.32	20.82	<=30	Pass
			18	22.13	-1.32	20.81	<=30	Pass
			39	22.10	-1.32	20.78	<=30	Pass
		75	0	22.16	-1.32	20.84	<=30	Pass
	1747.5	1	0	22.92	-1.32	21.60	<=30	Pass
			38	23.04	-1.32	21.72	<=30	Pass
			74	22.91	-1.32	21.59	<=30	Pass
		36	0	22.08	-1.32	20.76	<=30	Pass
			18	22.14	-1.32	20.82	<=30	Pass
			39	22.17	-1.32	20.85	<=30	Pass
		75	0	22.11	-1.32	20.79	<=30	Pass
16QAM	1717.5	1	0	22.17	-1.32	20.85	<=30	Pass
			38	22.24	-1.32	20.92	<=30	Pass
			74	22.17	-1.32	20.85	<=30	Pass
		36	0	21.10	-1.32	19.78	<=30	Pass
			18	21.17	-1.32	19.85	<=30	Pass
			39	21.16	-1.32	19.84	<=30	Pass
		75	0	21.19	-1.32	19.87	<=30	Pass
	1732.5	1	0	22.56	-1.32	21.24	<=30	Pass
			38	22.68	-1.32	21.36	<=30	Pass
			74	22.44	-1.32	21.12	<=30	Pass
		36	0	21.20	-1.32	19.88	<=30	Pass
			18	21.17	-1.32	19.85	<=30	Pass
			39	21.17	-1.32	19.85	<=30	Pass
		75	0	21.17	-1.32	19.85	<=30	Pass
	1747.5	1	0	22.22	-1.32	20.90	<=30	Pass
			38	22.26	-1.32	20.94	<=30	Pass
			74	22.17	-1.32	20.85	<=30	Pass
		36	0	21.00	-1.32	19.68	<=30	Pass
			18	21.02	-1.32	19.70	<=30	Pass
			39	21.05	-1.32	19.73	<=30	Pass
		75	0	21.06	-1.32	19.74	<=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	22.81	-1.32	21.49	<=30	Pass
			50	23.23	-1.32	21.91	<=30	Pass
			99	22.82	-1.32	21.50	<=30	Pass
		50	0	21.99	-1.32	20.67	<=30	Pass
			25	22.10	-1.32	20.78	<=30	Pass
			50	22.10	-1.32	20.78	<=30	Pass
		100	0	22.10	-1.32	20.78	<=30	Pass
	1732.5	1	0	22.84	-1.32	21.52	<=30	Pass
			50	23.19	-1.32	21.87	<=30	Pass
			99	22.75	-1.32	21.43	<=30	Pass
		50	0	22.15	-1.32	20.83	<=30	Pass
			25	22.10	-1.32	20.78	<=30	Pass
			50	22.03	-1.32	20.71	<=30	Pass
		100	0	22.12	-1.32	20.80	<=30	Pass
	1745	1	0	22.81	-1.32	21.49	<=30	Pass
			50	23.19	-1.32	21.87	<=30	Pass
			99	22.78	-1.32	21.46	<=30	Pass
		50	0	21.98	-1.32	20.66	<=30	Pass
			25	22.02	-1.32	20.70	<=30	Pass
			50	22.03	-1.32	20.71	<=30	Pass
		100	0	22.00	-1.32	20.68	<=30	Pass
16QAM	1720	1	0	22.06	-1.32	20.74	<=30	Pass
			50	22.50	-1.32	21.18	<=30	Pass
			99	22.13	-1.32	20.81	<=30	Pass
		50	0	21.04	-1.32	19.72	<=30	Pass
			25	21.14	-1.32	19.82	<=30	Pass
			50	21.15	-1.32	19.83	<=30	Pass
		100	0	21.14	-1.32	19.82	<=30	Pass
	1732.5	1	0	22.35	-1.32	21.03	<=30	Pass
			50	22.81	-1.32	21.49	<=30	Pass
			99	22.29	-1.32	20.97	<=30	Pass
		50	0	21.22	-1.32	19.90	<=30	Pass
			25	21.20	-1.32	19.88	<=30	Pass
			50	21.12	-1.32	19.80	<=30	Pass
		100	0	21.21	-1.32	19.89	<=30	Pass
	1745	1	0	22.02	-1.32	20.70	<=30	Pass
			50	22.30	-1.32	20.98	<=30	Pass
			99	21.91	-1.32	20.59	<=30	Pass
		50	0	21.04	-1.32	19.72	<=30	Pass
			25	21.05	-1.32	19.73	<=30	Pass
			50	21.05	-1.32	19.73	<=30	Pass
		100	0	21.09	-1.32	19.77	<=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	-5.422	-0.0032	-2.5 to 2.5	Pass
					3.85	-3.076	-0.0018	-2.5 to 2.5	Pass
					4.43	-1.531	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-5.736	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-7.224	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-1.903	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.958	0.0006	-2.5 to 2.5	Pass
				30	3.85	-6.838	-0.0040	-2.5 to 2.5	Pass
				40	3.85	2.475	0.0014	-2.5 to 2.5	Pass
				50	3.85	1.802	0.0011	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-1.359	-0.0008	-2.5 to 2.5	Pass
					3.85	-12.288	-0.0071	-2.5 to 2.5	Pass
					4.43	-10.915	-0.0063	-2.5 to 2.5	Pass
				-30	3.85	-4.234	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-2.460	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-5.665	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-6.623	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-6.065	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-6.952	-0.0040	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-1.230	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
					4.43	-10.386	-0.0059	-2.5 to 2.5	Pass
				-30	3.85	1.788	0.0010	-2.5 to 2.5	Pass
				-20	3.85	-0.587	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				0	3.85	-8.068	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-3.934	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-3.619	-0.0021	-2.5 to 2.5	Pass
				40	3.85	0.200	0.0001	-2.5 to 2.5	Pass
				50	3.85	-9.556	-0.0054	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-5.021	-0.0029	-2.5 to 2.5	Pass
					3.85	-3.834	-0.0022	-2.5 to 2.5	Pass
					4.43	-2.003	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-9.270	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-7.639	-0.0045	-2.5 to 2.5	Pass
				-10	3.85	-10.886	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-2.460	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-3.676	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-4.363	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-4.735	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-1.788	-0.0010	-2.5 to 2.5	Pass
					3.85	-8.340	-0.0048	-2.5 to 2.5	Pass
					4.43	-4.077	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-4.749	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-3.676	-0.0021	-2.5 to 2.5	Pass
				0	3.85	1.888	0.0011	-2.5 to 2.5	Pass
				10	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-7.782	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-2.890	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-3.691	-0.0021	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-5.894	-0.0034	-2.5 to 2.5	Pass
					3.85	-4.506	-0.0026	-2.5 to 2.5	Pass
					4.43	-5.021	-0.0029	-2.5 to 2.5	Pass

				-30	3.85	-2.975	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-2.003	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-12.145	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-6.022	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-10.614	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-5.107	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-4.635	-0.0026	-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	0.787	0.0005	-2.5 to 2.5	Pass
					3.85	0.386	0.0002	-2.5 to 2.5	Pass
					4.43	-3.262	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-7.067	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-10.901	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-5.050	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-9.427	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-12.846	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-5.236	-0.0031	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	4.148	0.0024	-2.5 to 2.5	Pass
					3.85	0.100	0.0001	-2.5 to 2.5	Pass
					4.43	-6.752	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-1.760	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	1.760	0.0010	-2.5 to 2.5	Pass
				0	3.85	-3.490	-0.0020	-2.5 to 2.5	Pass
				10	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				30	3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-5.593	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-4.992	-0.0029	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	5.708	0.0033	-2.5 to 2.5	Pass
					3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
					4.43	-1.774	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-6.881	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-2.761	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-11.358	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-5.150	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-3.834	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-8.755	-0.0050	-2.5 to 2.5	Pass
				50	3.85	-8.740	-0.0050	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-3.576	-0.0021	-2.5 to 2.5	Pass
					3.85	-5.550	-0.0032	-2.5 to 2.5	Pass
					4.43	-4.435	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-1.516	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-8.512	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	-8.225	-0.0048	-2.5 to 2.5	Pass
				10	3.85	-4.807	-0.0028	-2.5 to 2.5	Pass
				30	3.85	2.303	0.0013	-2.5 to 2.5	Pass
				40	3.85	-4.392	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-6.595	-0.0039	-2.5 to 2.5	Pass

	1732.5	15	0	20	3.27	-4.148	-0.0024	-2.5 to 2.5	Pass
					3.85	-3.176	-0.0018	-2.5 to 2.5	Pass
					4.43	-3.934	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-1.531	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-9.127	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-2.961	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-1.359	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-10.386	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-13.776	-0.0080	-2.5 to 2.5	Pass
				40	3.85	-12.760	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-11.044	-0.0064	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-1.817	-0.0010	-2.5 to 2.5	Pass
					3.85	-1.459	-0.0008	-2.5 to 2.5	Pass
					4.43	-3.247	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.717	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	2.718	0.0016	-2.5 to 2.5	Pass
				0	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	-10.443	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-2.460	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-9.971	-0.0057	-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	-8.297	-0.0048	-2.5 to 2.5	Pass
					3.85	-8.368	-0.0049	-2.5 to 2.5	Pass
					4.43	-3.219	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	0.772	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.987	0.0006	-2.5 to 2.5	Pass
				-10	3.85	-8.454	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-8.183	-0.0048	-2.5 to 2.5	Pass
				10	3.85	-8.812	-0.0051	-2.5 to 2.5	Pass
				30	3.85	2.375	0.0014	-2.5 to 2.5	Pass
				40	3.85	-9.756	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-4.048	-0.0024	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-0.086	0.0000	-2.5 to 2.5	Pass
					3.85	-3.018	-0.0017	-2.5 to 2.5	Pass
					4.43	-8.655	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-5.736	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				0	3.85	-3.233	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-1.302	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-1.359	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-4.349	-0.0025	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-3.791	-0.0022	-2.5 to 2.5	Pass
					3.85	-13.590	-0.0078	-2.5 to 2.5	Pass
					4.43	-8.683	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-3.448	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-5.293	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-4.735	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-3.734	-0.0021	-2.5 to 2.5	Pass

				30	3.85	-9.184	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-7.052	-0.0040	-2.5 to 2.5	Pass
				50	3.85	0.329	0.0002	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-6.495	-0.0038	-2.5 to 2.5	Pass
					3.85	-7.710	-0.0045	-2.5 to 2.5	Pass
					4.43	-0.672	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-4.377	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	4.148	0.0024	-2.5 to 2.5	Pass
				-10	3.85	-5.779	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-11.315	-0.0066	-2.5 to 2.5	Pass
				30	3.85	-5.264	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-4.292	-0.0025	-2.5 to 2.5	Pass
				50	3.85	3.448	0.0020	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	3.791	0.0022	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.372	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-9.127	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-5.794	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-2.661	-0.0015	-2.5 to 2.5	Pass
				0	3.85	4.964	0.0029	-2.5 to 2.5	Pass
				10	3.85	2.632	0.0015	-2.5 to 2.5	Pass
				30	3.85	-3.033	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-1.717	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-8.469	-0.0048	-2.5 to 2.5	Pass
					3.85	4.292	0.0024	-2.5 to 2.5	Pass
					4.43	-11.859	-0.0068	-2.5 to 2.5	Pass
				-30	3.85	-3.576	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-7.138	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-10.858	-0.0062	-2.5 to 2.5	Pass
				0	3.85	-14.863	-0.0085	-2.5 to 2.5	Pass
				10	3.85	1.516	0.0009	-2.5 to 2.5	Pass
				30	3.85	-14.720	-0.0084	-2.5 to 2.5	Pass
				40	3.85	2.189	0.0012	-2.5 to 2.5	Pass
				50	3.85	-7.024	-0.0040	-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	-6.452	-0.0038	-2.5 to 2.5	Pass
					3.85	-10.915	-0.0064	-2.5 to 2.5	Pass
					4.43	-2.918	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-5.922	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-8.740	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-12.074	-0.0070	-2.5 to 2.5	Pass
				0	3.85	-5.279	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-6.452	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-13.332	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-12.188	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-8.998	-0.0052	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-4.077	-0.0024	-2.5 to 2.5	Pass
					3.85	-2.346	-0.0014	-2.5 to 2.5	Pass
					4.43	-5.622	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-7.381	-0.0043	-2.5 to 2.5	Pass

				-10	3.85	-6.337	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-9.756	-0.0056	-2.5 to 2.5	Pass
				10	3.85	-2.789	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-2.575	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-5.436	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-9.799	-0.0056	-2.5 to 2.5	Pass
					3.85	-7.954	-0.0045	-2.5 to 2.5	Pass
					4.43	-0.672	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-8.640	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-0.830	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-6.208	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-11.673	-0.0067	-2.5 to 2.5	Pass
				10	3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-7.825	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-8.125	-0.0046	-2.5 to 2.5	Pass
				50	3.85	-7.038	-0.0040	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-3.805	-0.0022	-2.5 to 2.5	Pass
					3.85	-11.258	-0.0066	-2.5 to 2.5	Pass
					4.43	-9.141	-0.0053	-2.5 to 2.5	Pass
				-30	3.85	-8.941	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-10.114	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-4.005	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-8.569	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-12.174	-0.0071	-2.5 to 2.5	Pass
				40	3.85	-5.536	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-5.107	-0.0030	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-3.734	-0.0022	-2.5 to 2.5	Pass
					3.85	1.516	0.0009	-2.5 to 2.5	Pass
					4.43	-3.147	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-2.475	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-7.596	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	-5.093	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-0.787	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-7.639	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-3.848	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-4.106	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-8.655	-0.0050	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-8.612	-0.0049	-2.5 to 2.5	Pass
					3.85	-5.808	-0.0033	-2.5 to 2.5	Pass
					4.43	-6.824	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-11.430	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-2.689	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-4.721	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-4.621	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-6.537	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-10.357	-0.0059	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.27	-5.221	-0.0030	-2.5 to 2.5	Pass
					3.85	-8.183	-0.0048	-2.5 to 2.5	Pass

					4.43	-7.181	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-3.633	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-9.184	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-8.926	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-5.336	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-3.705	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-10.858	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-2.975	-0.0017	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-5.178	-0.0030	-2.5 to 2.5	Pass
					3.85	-1.988	-0.0011	-2.5 to 2.5	Pass
					4.43	-4.206	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-2.604	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-3.633	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-4.020	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-5.493	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-3.676	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-4.320	-0.0025	-2.5 to 2.5	Pass
				40	3.85	1.001	0.0006	-2.5 to 2.5	Pass
				50	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-6.266	-0.0036	-2.5 to 2.5	Pass
					3.85	0.558	0.0003	-2.5 to 2.5	Pass
					4.43	0.629	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-9.441	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-7.310	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-3.848	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-1.688	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-6.580	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-7.668	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-3.633	-0.0021	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-10.614	-0.0062	-2.5 to 2.5	Pass
					3.85	-6.309	-0.0037	-2.5 to 2.5	Pass
					4.43	-6.595	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-5.722	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-4.878	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-3.963	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-8.583	-0.0050	-2.5 to 2.5	Pass
				10	3.85	-6.924	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-8.597	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-6.366	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-3.591	-0.0021	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-2.418	-0.0014	-2.5 to 2.5	Pass
					3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
					4.43	-3.276	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-6.795	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-4.535	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-4.635	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-4.978	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-2.160	-0.0012	-2.5 to 2.5	Pass
				30	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				40	3.85	5.322	0.0031	-2.5 to 2.5	Pass
				50	3.85	-8.612	-0.0050	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-3.977	-0.0023	-2.5 to 2.5	Pass
					3.85	-1.388	-0.0008	-2.5 to 2.5	Pass
					4.43	-8.111	-0.0046	-2.5 to 2.5	Pass
				-30	3.85	-1.302	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-12.517	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-4.807	-0.0028	-2.5 to 2.5	Pass

				0	3.85	-5.450	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-5.908	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-3.018	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-8.655	-0.0050	-2.5 to 2.5	Pass
				50	3.85	-8.626	-0.0049	-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	-10.228	-0.0059	-2.5 to 2.5	Pass
					3.85	-9.227	-0.0054	-2.5 to 2.5	Pass
					4.43	-12.116	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-10.657	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-4.549	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-6.509	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-11.888	-0.0069	-2.5 to 2.5	Pass
				40	3.85	-4.349	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-6.437	-0.0037	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-5.579	-0.0032	-2.5 to 2.5	Pass
					3.85	-2.203	-0.0013	-2.5 to 2.5	Pass
					4.43	-2.403	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-4.706	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-6.523	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-7.067	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-7.353	-0.0042	-2.5 to 2.5	Pass
				40	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-4.249	-0.0025	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-5.307	-0.0030	-2.5 to 2.5	Pass
					3.85	-3.190	-0.0018	-2.5 to 2.5	Pass
					4.43	-6.766	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-3.791	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-6.194	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-5.851	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-3.934	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-6.366	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-1.459	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-1.945	-0.0011	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-9.427	-0.0055	-2.5 to 2.5	Pass
					3.85	-2.990	-0.0017	-2.5 to 2.5	Pass
					4.43	-4.377	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-5.836	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-7.825	-0.0045	-2.5 to 2.5	Pass
				-10	3.85	-7.668	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-9.284	-0.0054	-2.5 to 2.5	Pass
				10	3.85	-7.968	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-9.971	-0.0058	-2.5 to 2.5	Pass
				50	3.85	-6.595	-0.0038	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-1.774	-0.0010	-2.5 to 2.5	Pass
					3.85	3.533	0.0020	-2.5 to 2.5	Pass
					4.43	-3.920	-0.0023	-2.5 to 2.5	Pass

				-30	3.85	-7.610	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-4.749	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-7.925	-0.0046	-2.5 to 2.5	Pass
				0	3.85	-2.418	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-4.835	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-0.715	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-8.411	-0.0048	-2.5 to 2.5	Pass
					3.85	-5.980	-0.0034	-2.5 to 2.5	Pass
					4.43	-2.789	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-5.622	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-3.548	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	0.143	0.0001	-2.5 to 2.5	Pass
				0	3.85	-4.063	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-2.732	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-6.537	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-7.339	-0.0042	-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

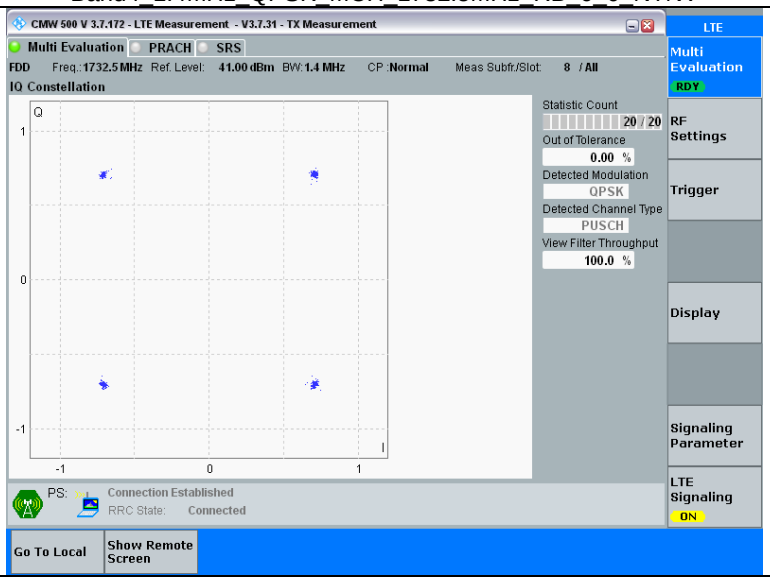
3.1.6 B4_20MHz

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

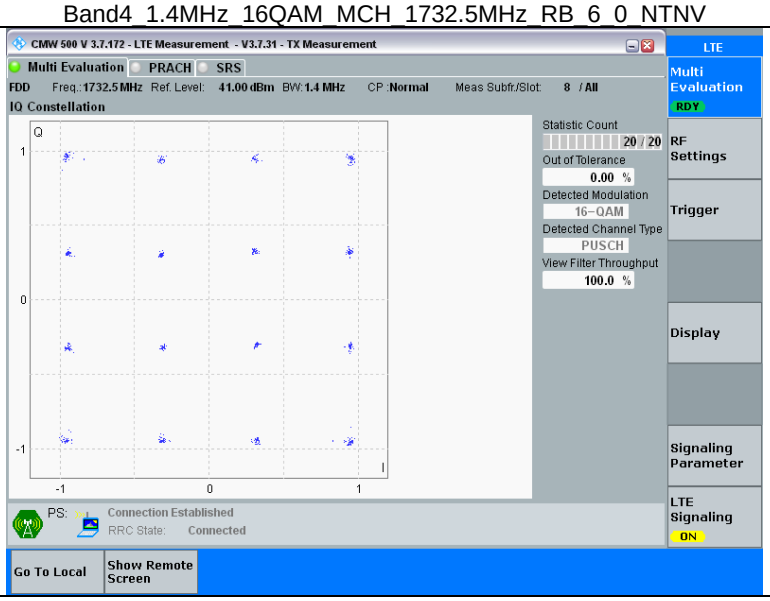
3.2 Test Graph

3.2.1 B4_1.4MHz

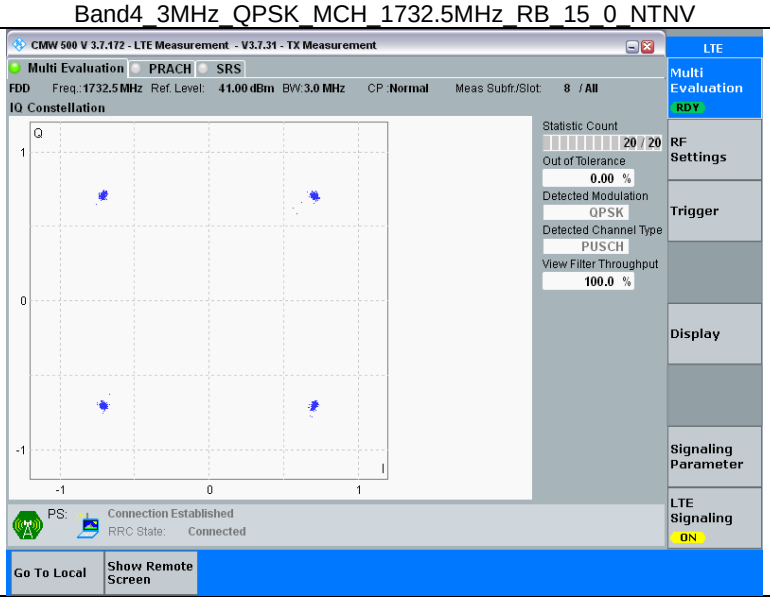
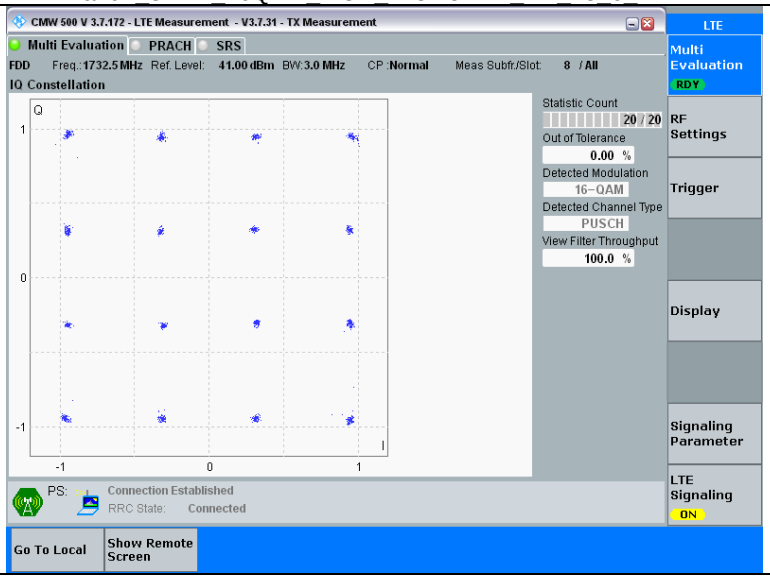
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



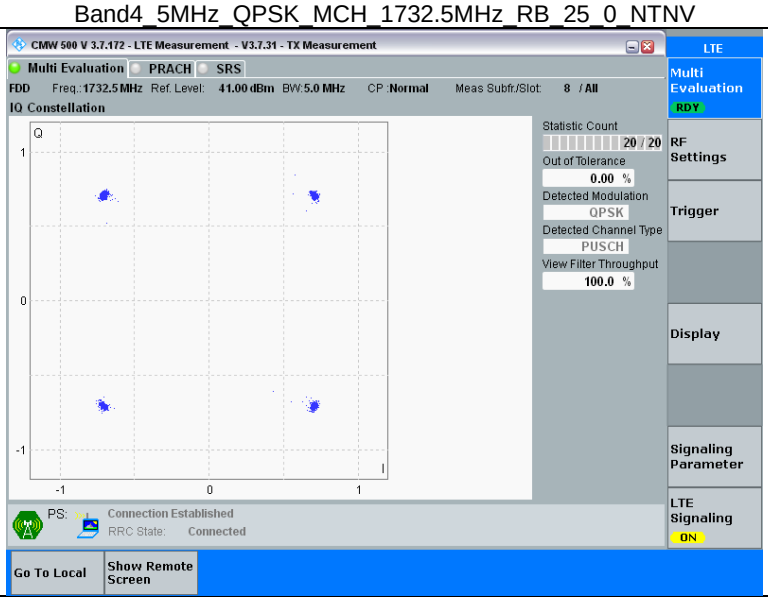
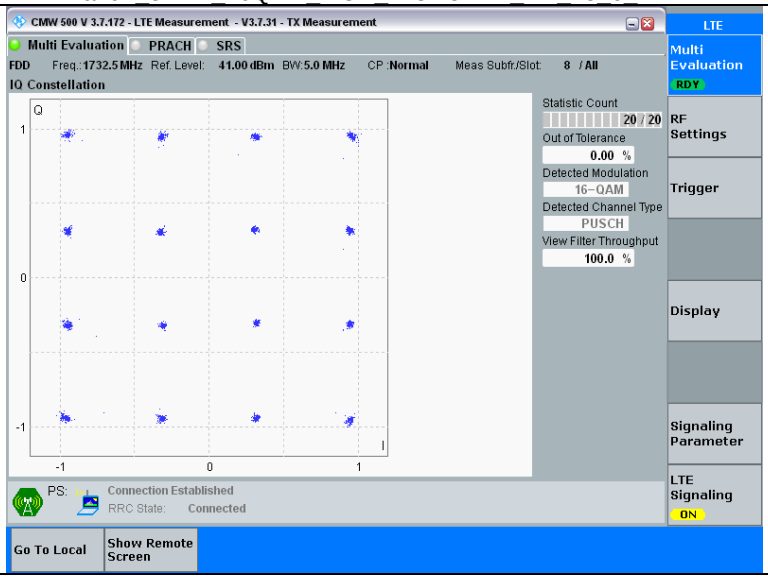
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



3.2.2 B4_3MHz

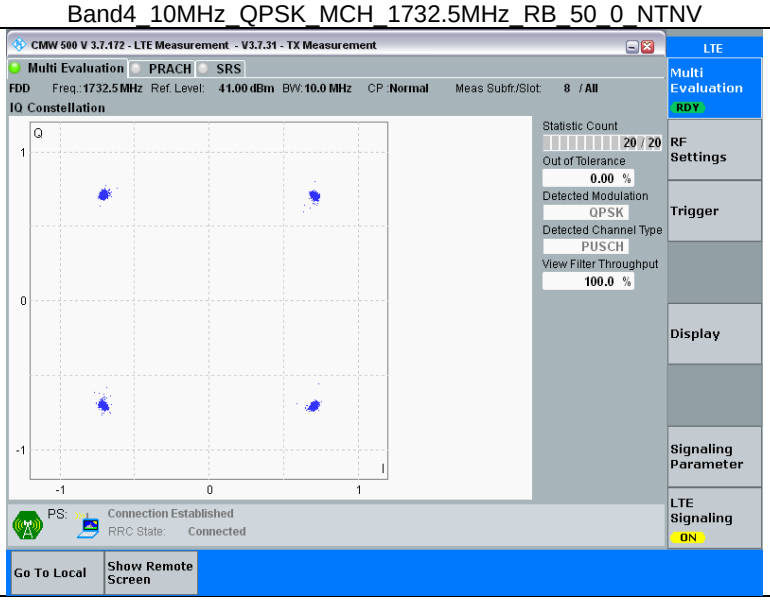
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV


3.2.3 B4_5MHz

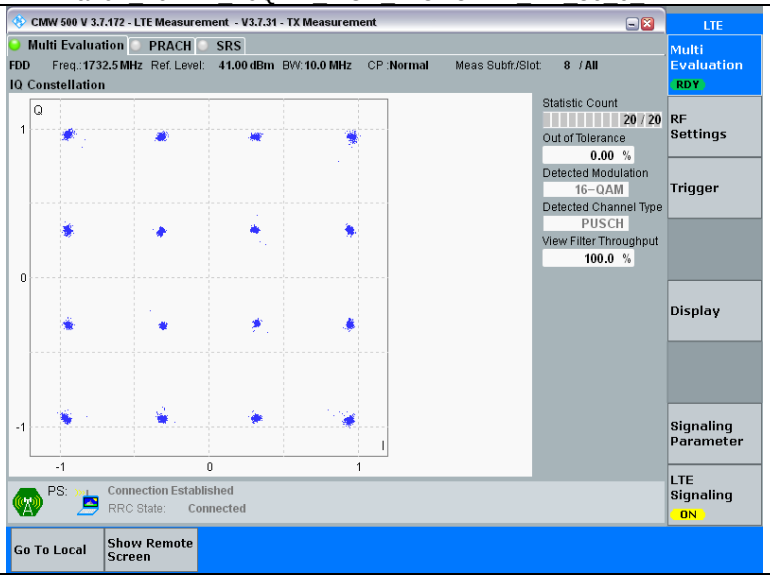
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV


3.2.4 B4_10MHz

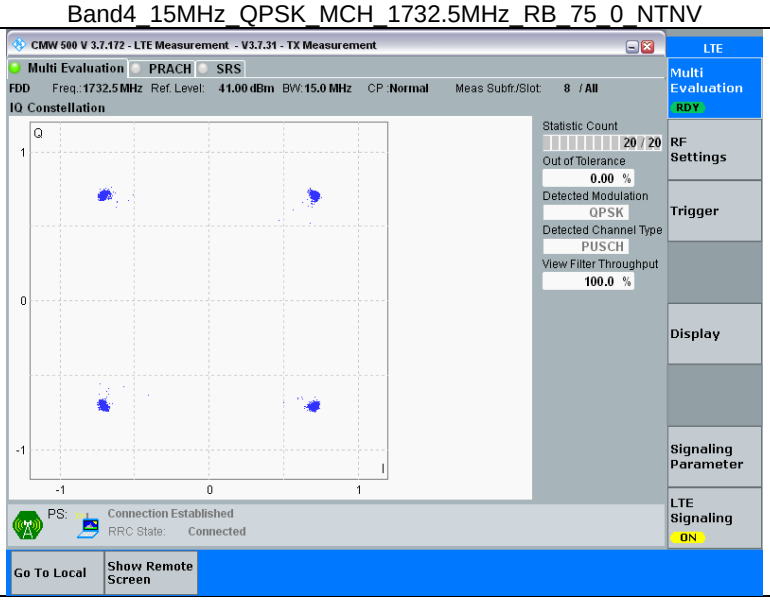
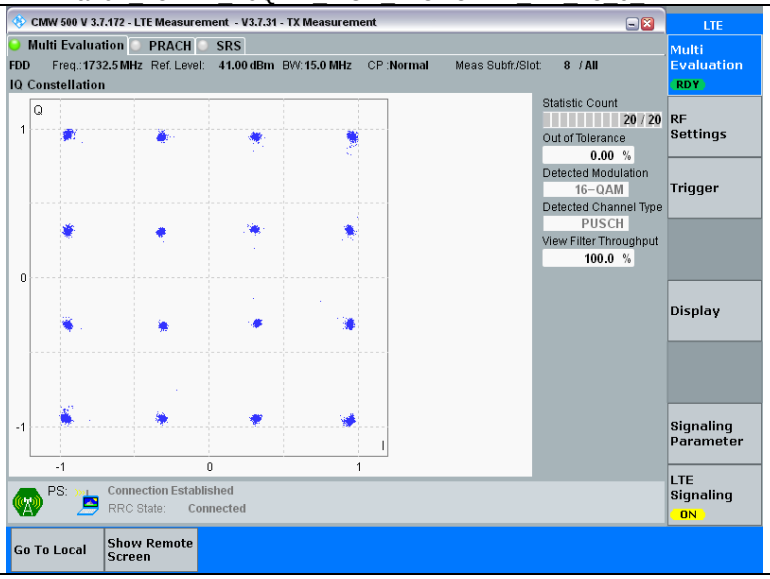
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

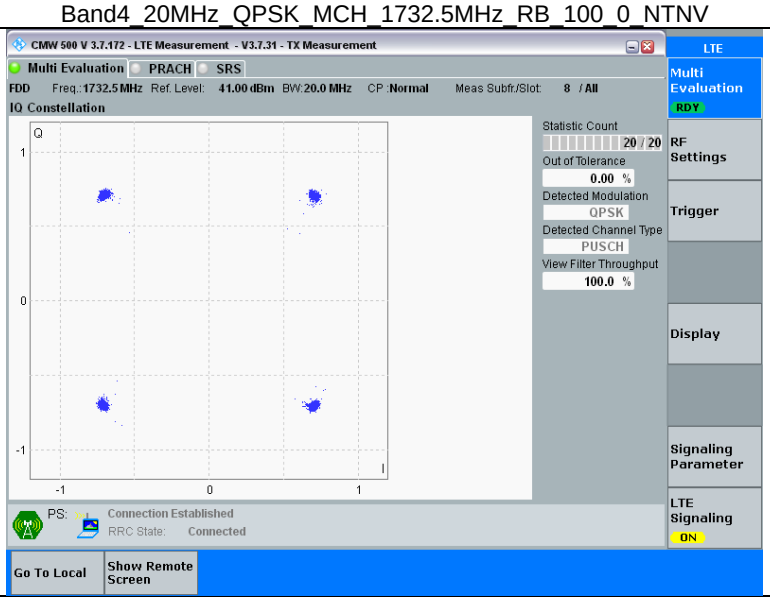


3.2.5 B4_15MHz

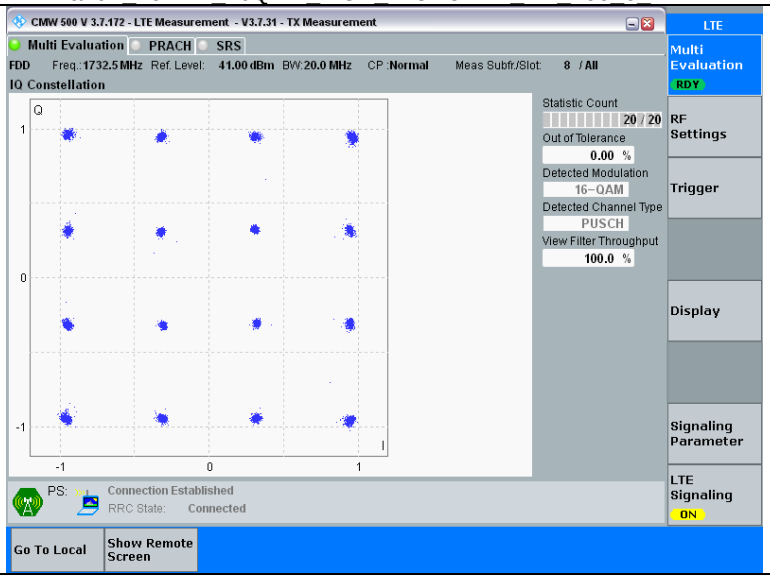
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV


3.2.6 B4_20MHz

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



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	1.118	/	Pass
		1732.5	6	0	1.109	/	Pass
		1754.3	6	0	1.114	/	Pass
	16QAM	1710.7	6	0	1.113	/	Pass
		1732.5	6	0	1.108	/	Pass
		1754.3	6	0	1.114	/	Pass
3	QPSK	1711.5	15	0	2.730	/	Pass
		1732.5	15	0	2.730	/	Pass
		1753.5	15	0	2.722	/	Pass
	16QAM	1711.5	15	0	2.726	/	Pass
		1732.5	15	0	2.717	/	Pass
		1753.5	15	0	2.728	/	Pass
5	QPSK	1712.5	25	0	4.576	/	Pass
		1732.5	25	0	4.537	/	Pass
		1752.5	25	0	4.535	/	Pass
	16QAM	1712.5	25	0	4.539	/	Pass
		1732.5	25	0	4.526	/	Pass
		1752.5	25	0	4.570	/	Pass
10	QPSK	1715	50	0	9.079	/	Pass
		1732.5	50	0	9.081	/	Pass
		1750	50	0	9.055	/	Pass
	16QAM	1715	50	0	9.101	/	Pass
		1732.5	50	0	9.100	/	Pass
		1750	50	0	9.057	/	Pass
15	QPSK	1717.5	75	0	13.672	/	Pass
		1732.5	75	0	13.661	/	Pass
		1747.5	75	0	13.593	/	Pass
	16QAM	1717.5	75	0	13.613	/	Pass
		1732.5	75	0	13.640	/	Pass
		1747.5	75	0	13.571	/	Pass
20	QPSK	1720	100	0	18.155	/	Pass
		1732.5	100	0	18.201	/	Pass
		1745	100	0	18.125	/	Pass
	16QAM	1720	100	0	18.187	/	Pass
		1732.5	100	0	18.158	/	Pass
		1745	100	0	18.083	/	Pass

4.1.2 Band4_XDB

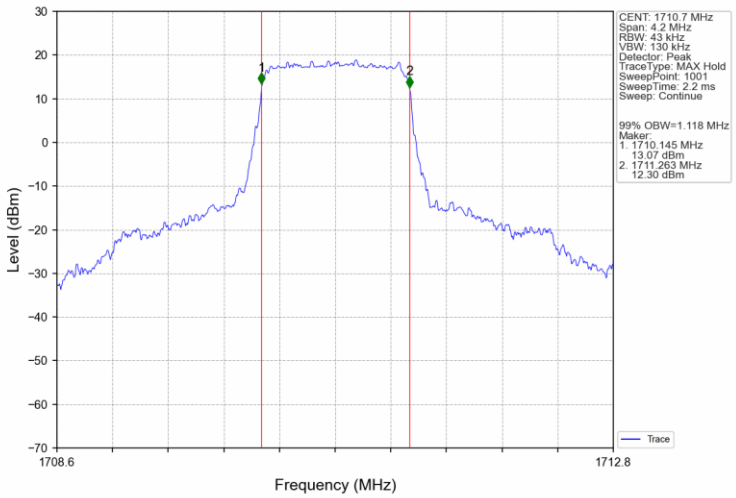
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.322	/	Pass
		1732.5	6	0	1.337	/	Pass
		1754.3	6	0	1.327	/	Pass

	16QAM	1710.7	6	0	1.337	/	Pass
		1732.5	6	0	1.293	/	Pass
		1754.3	6	0	1.322	/	Pass
3	QPSK	1711.5	15	0	2.979	/	Pass
		1732.5	15	0	2.995	/	Pass
		1753.5	15	0	3.009	/	Pass
	16QAM	1711.5	15	0	2.986	/	Pass
		1732.5	15	0	3.003	/	Pass
		1753.5	15	0	2.996	/	Pass
5	QPSK	1712.5	25	0	5.029	/	Pass
		1732.5	25	0	4.993	/	Pass
		1752.5	25	0	5.025	/	Pass
	16QAM	1712.5	25	0	4.998	/	Pass
		1732.5	25	0	5.058	/	Pass
		1752.5	25	0	5.020	/	Pass
10	QPSK	1715	50	0	11.323	/	Pass
		1732.5	50	0	10.791	/	Pass
		1750	50	0	9.947	/	Pass
	16QAM	1715	50	0	13.875	/	Pass
		1732.5	50	0	12.501	/	Pass
		1750	50	0	9.889	/	Pass
15	QPSK	1717.5	75	0	20.005	/	Pass
		1732.5	75	0	19.458	/	Pass
		1747.5	75	0	14.891	/	Pass
	16QAM	1717.5	75	0	14.894	/	Pass
		1732.5	75	0	21.945	/	Pass
		1747.5	75	0	14.899	/	Pass
20	QPSK	1720	100	0	31.429	/	Pass
		1732.5	100	0	28.177	/	Pass
		1745	100	0	19.684	/	Pass
	16QAM	1720	100	0	30.714	/	Pass
		1732.5	100	0	25.978	/	Pass
		1745	100	0	19.571	/	Pass

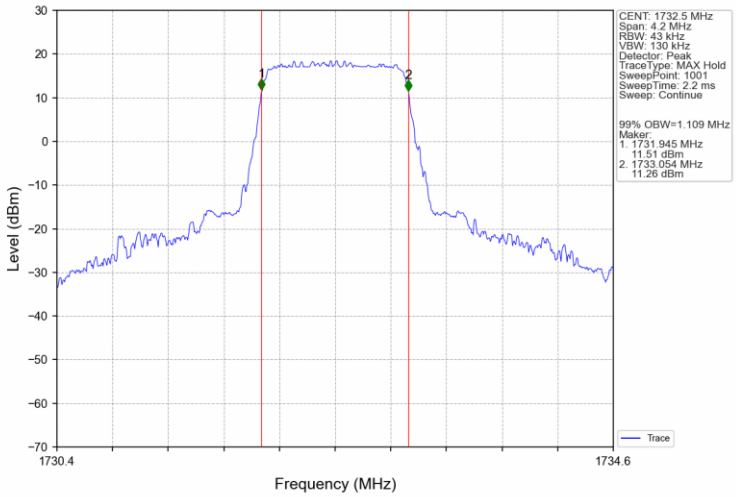
4.2 Test Graph

4.2.1 Band4_OBW

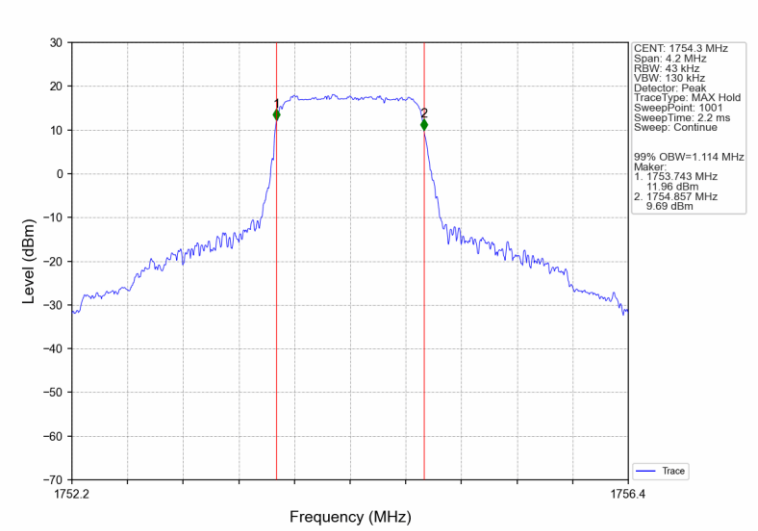
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



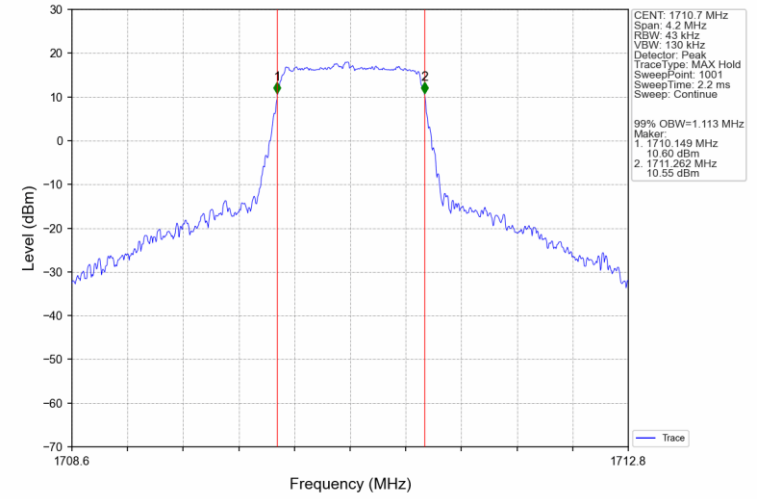
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



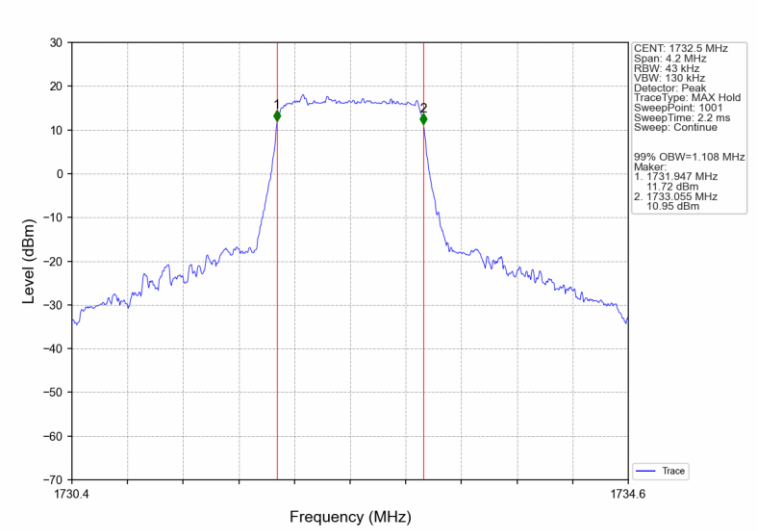
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



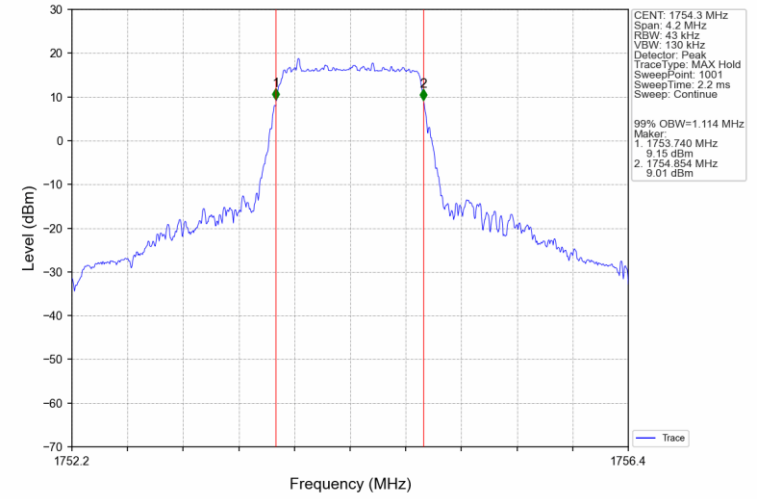
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



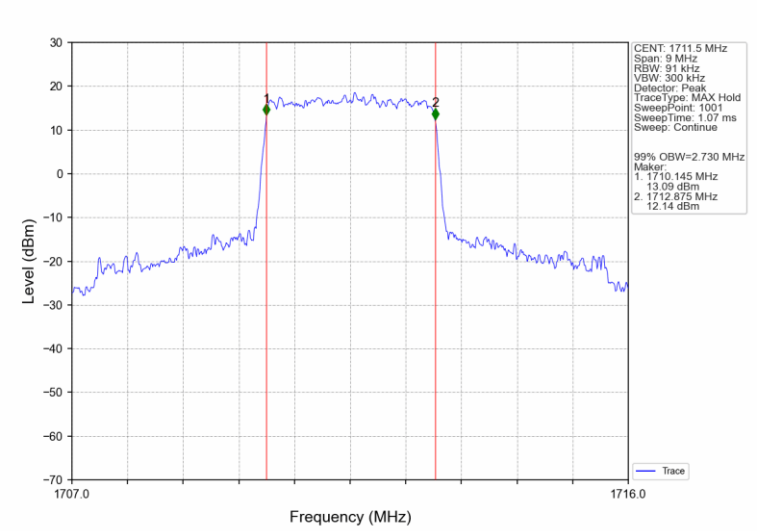
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



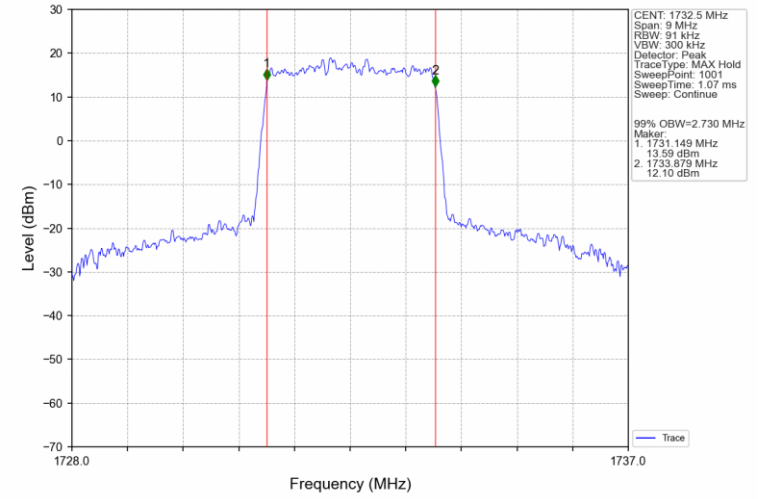
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



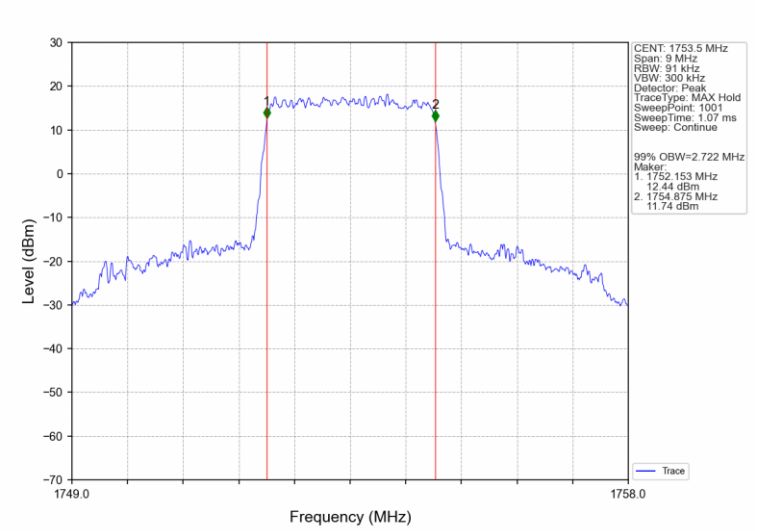
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



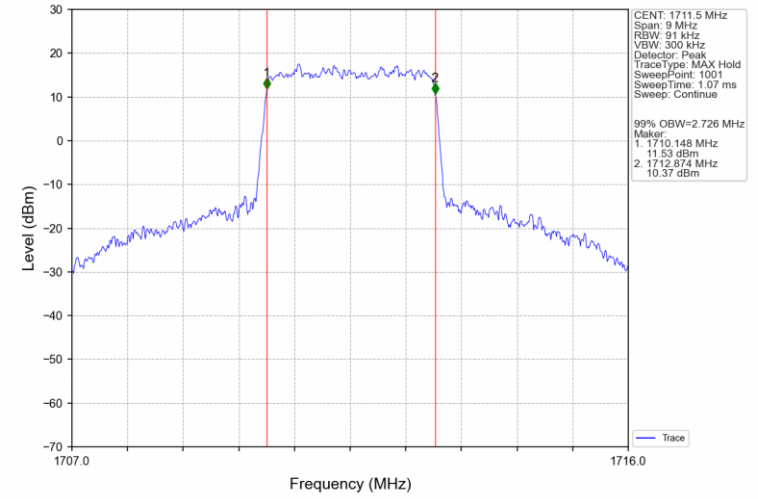
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



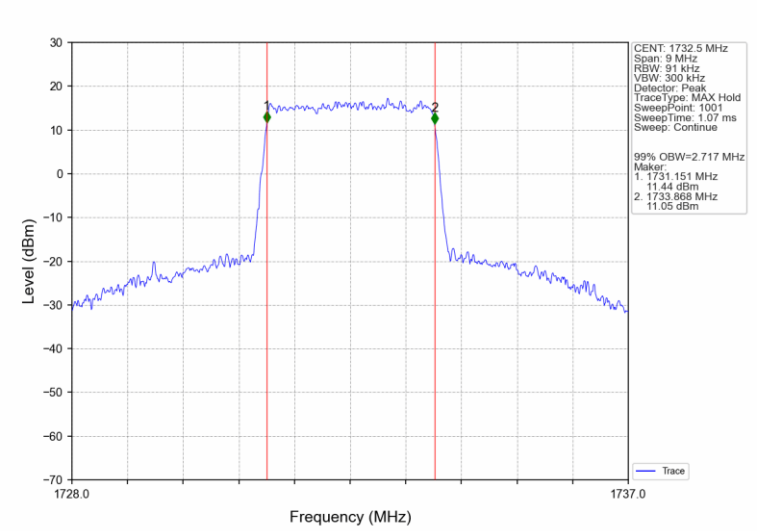
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



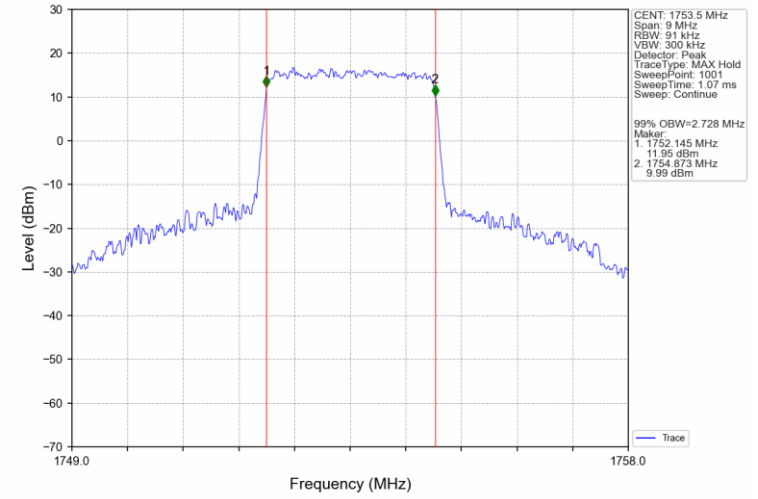
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



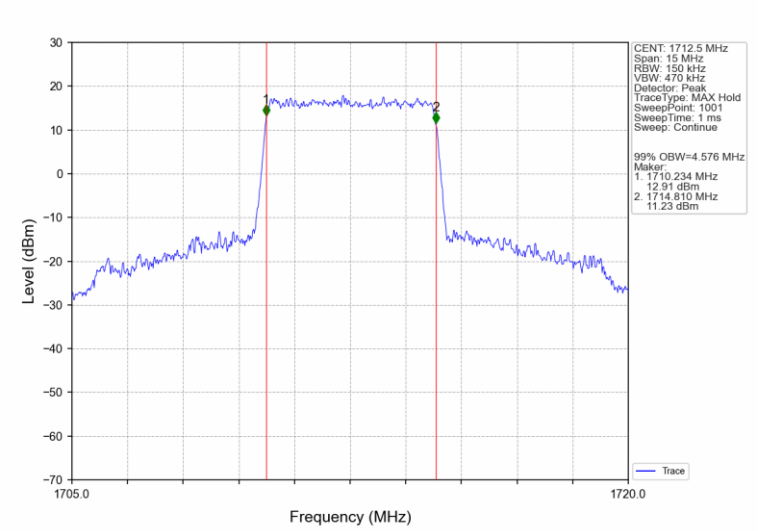
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



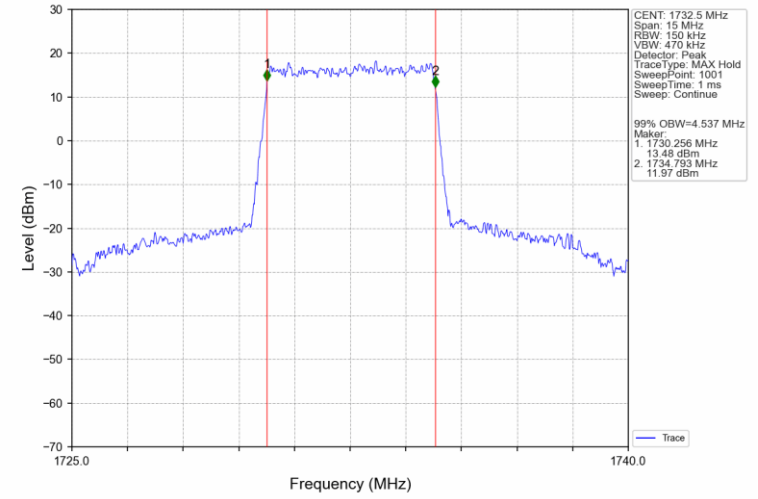
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



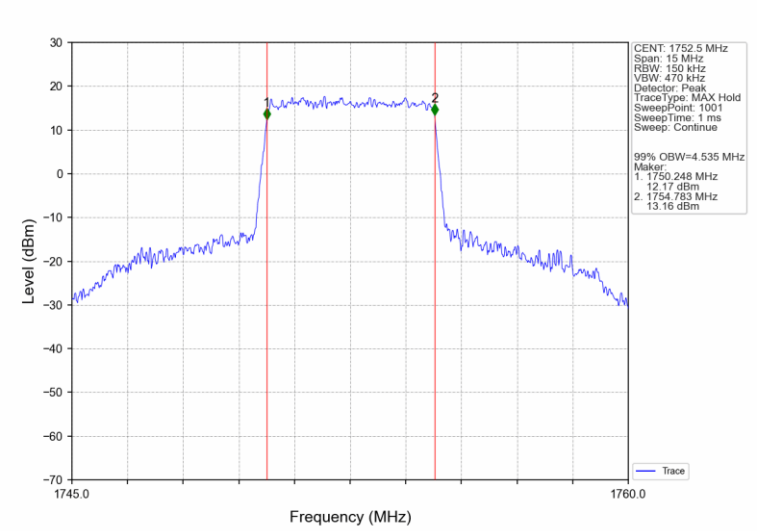
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



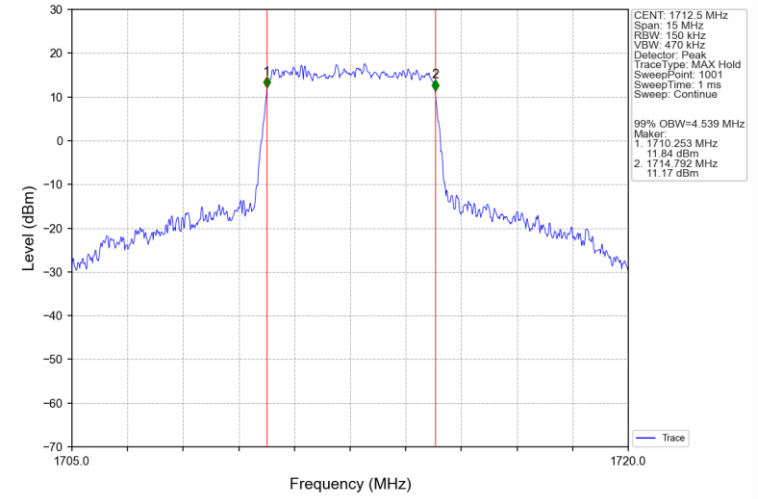
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



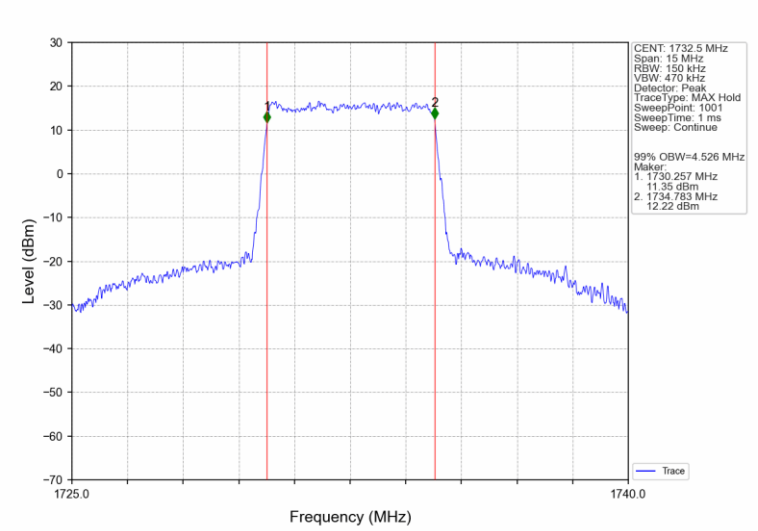
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



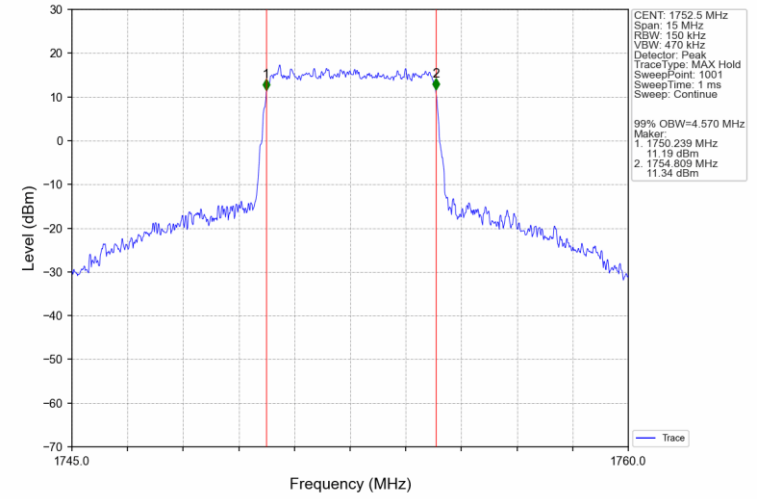
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



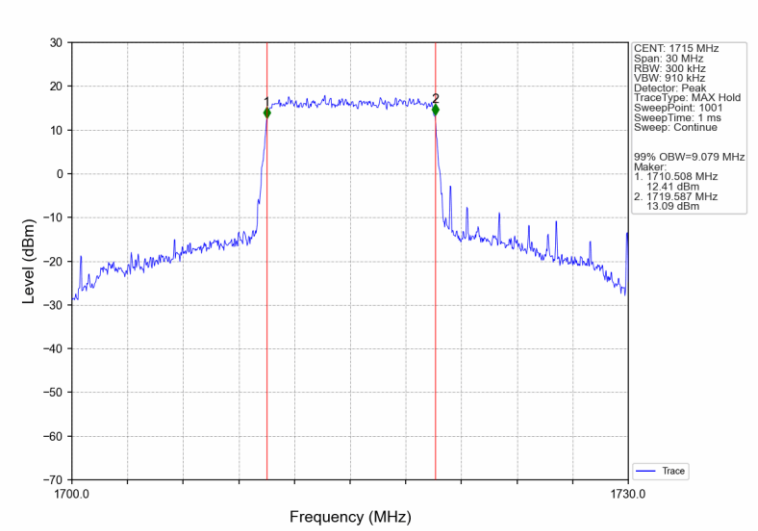
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



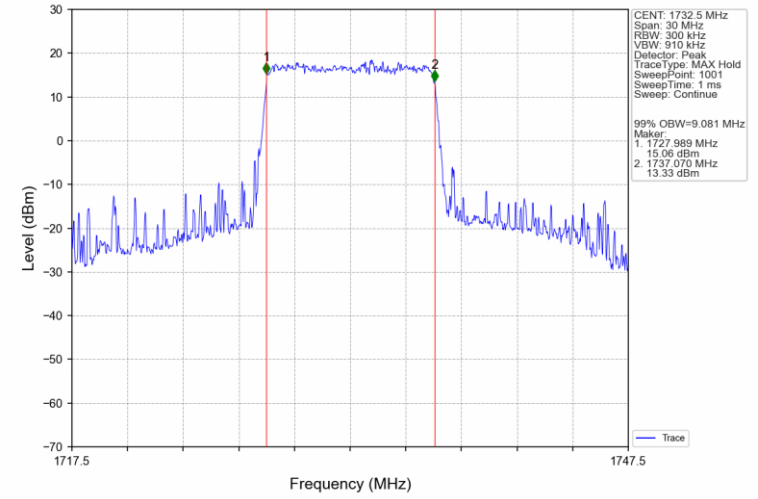
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



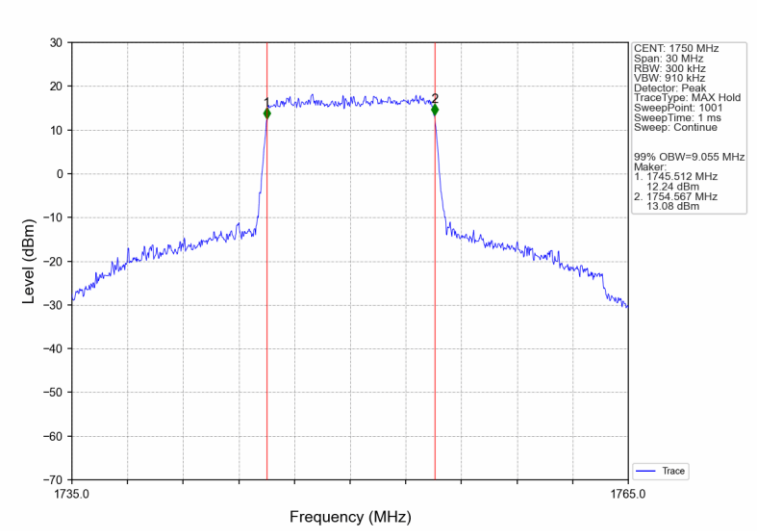
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



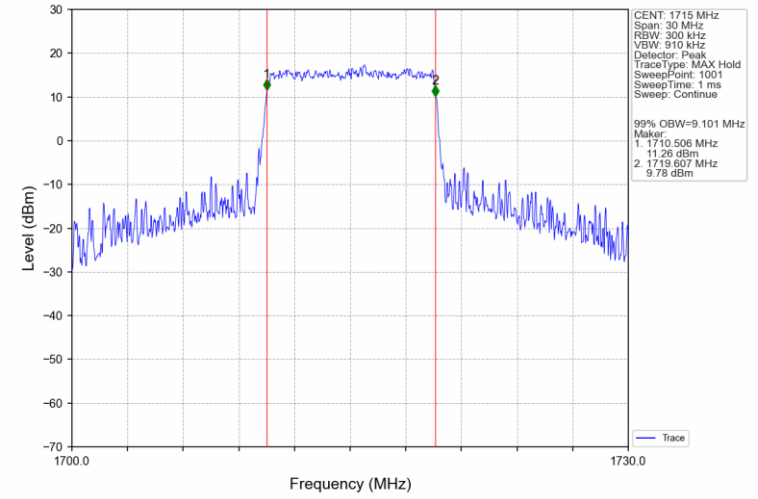
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



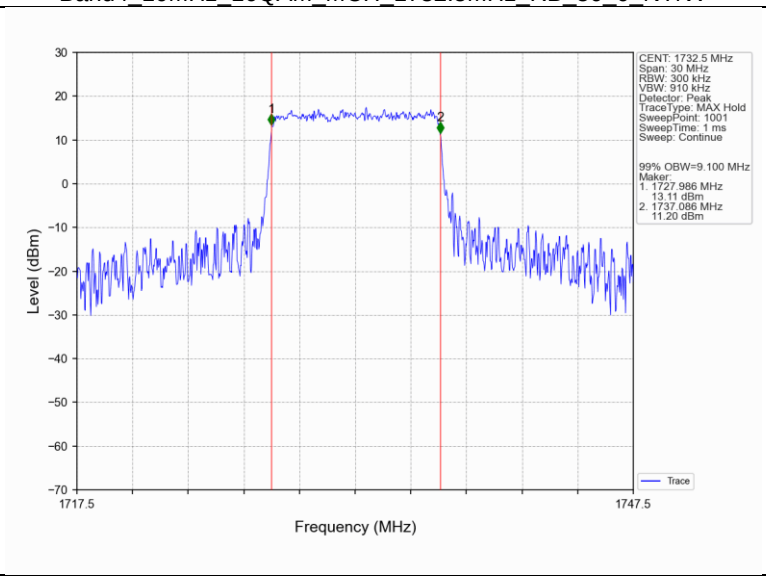
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



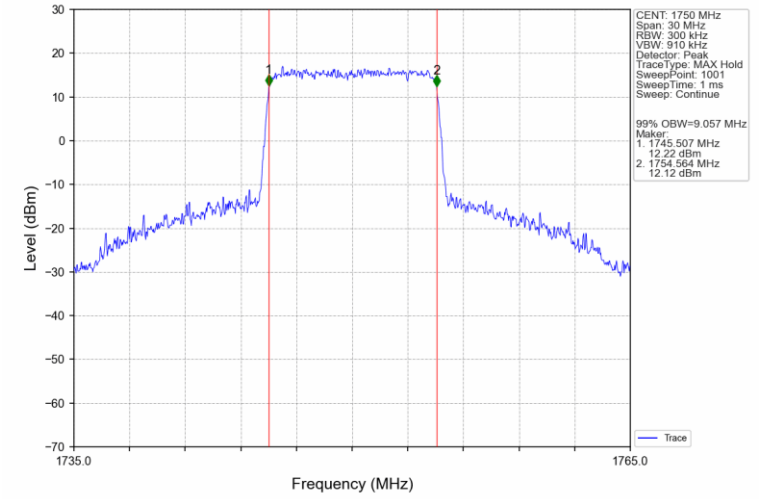
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



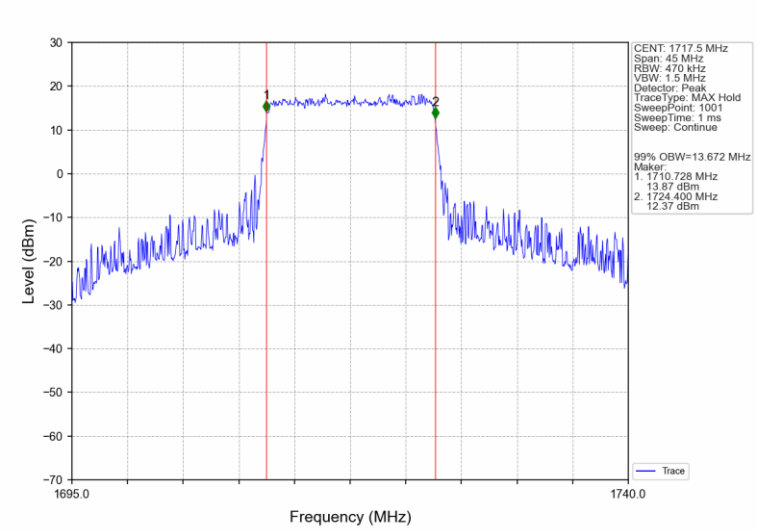
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



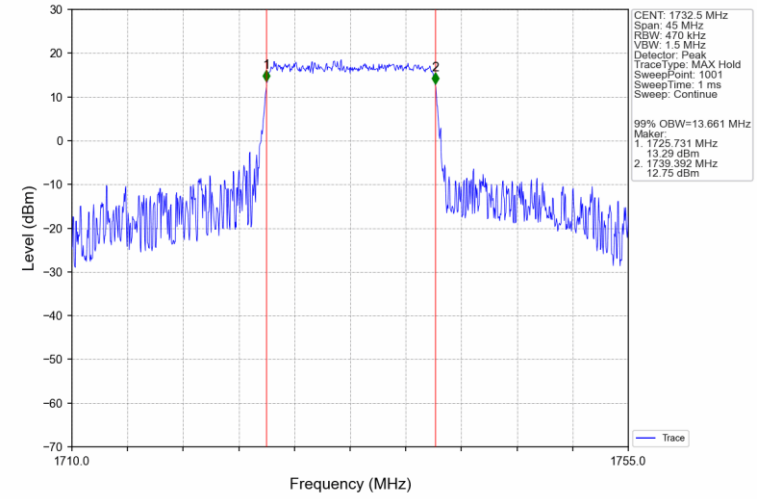
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



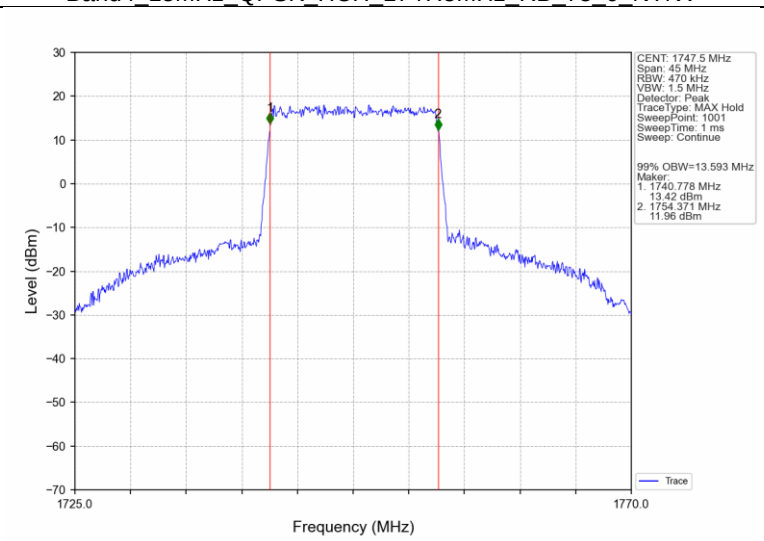
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



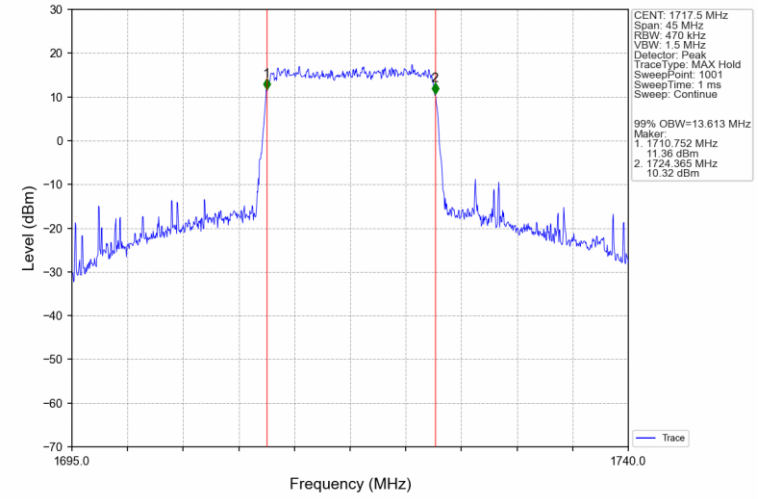
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



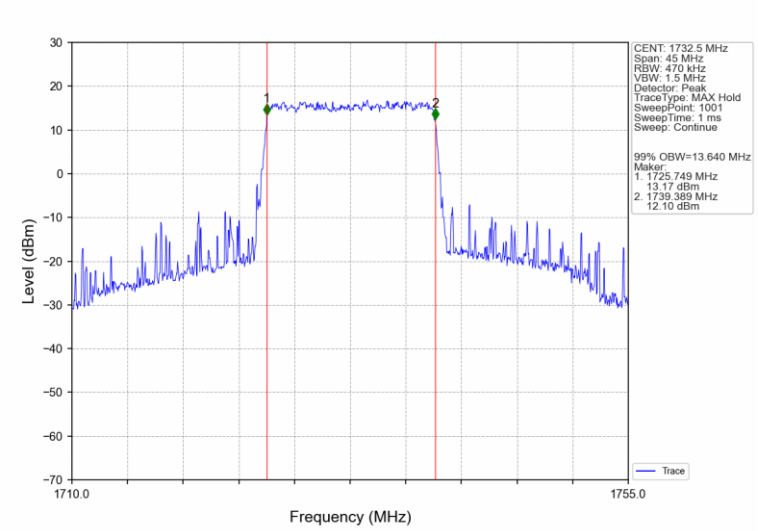
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



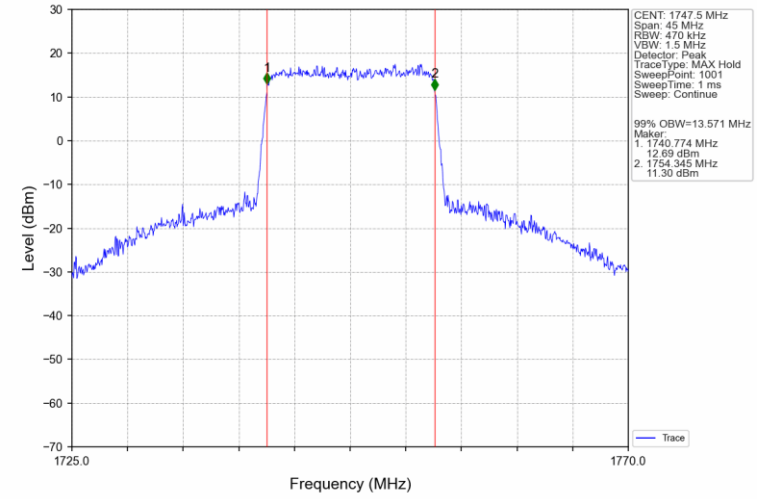
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



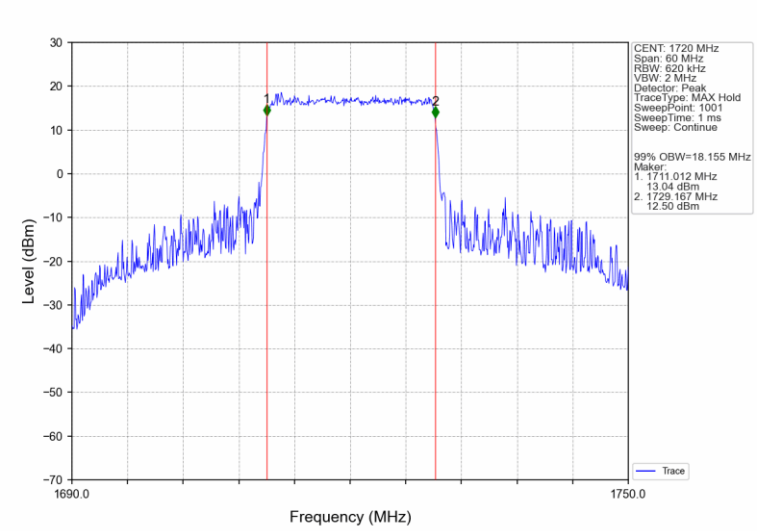
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



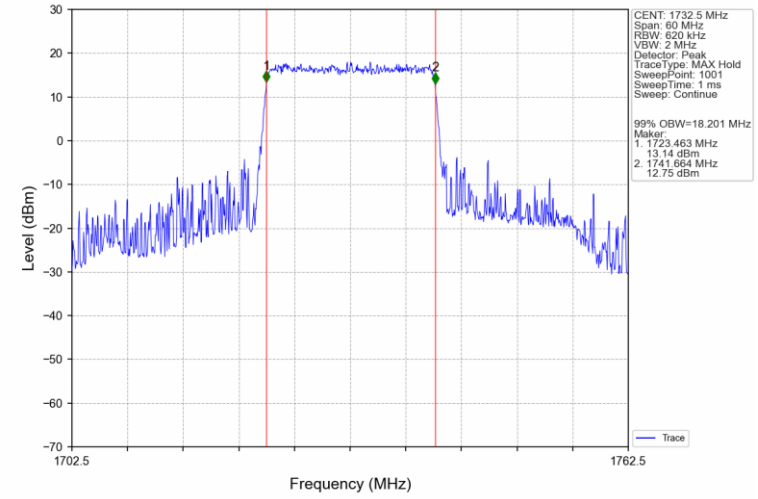
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



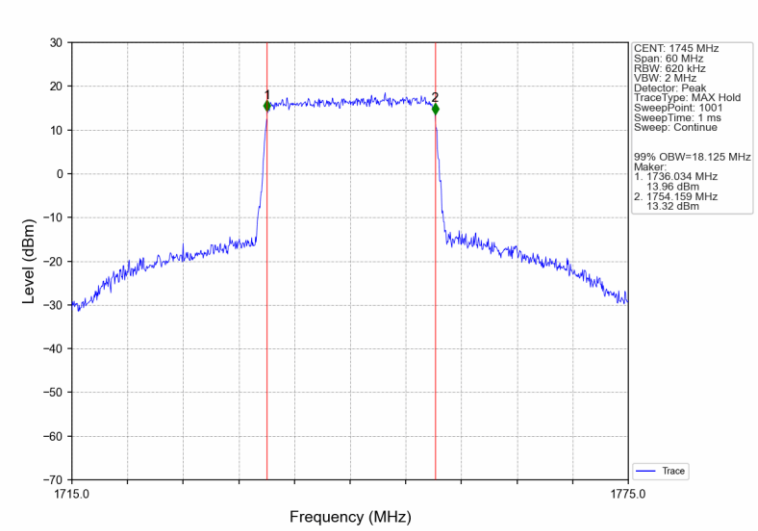
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



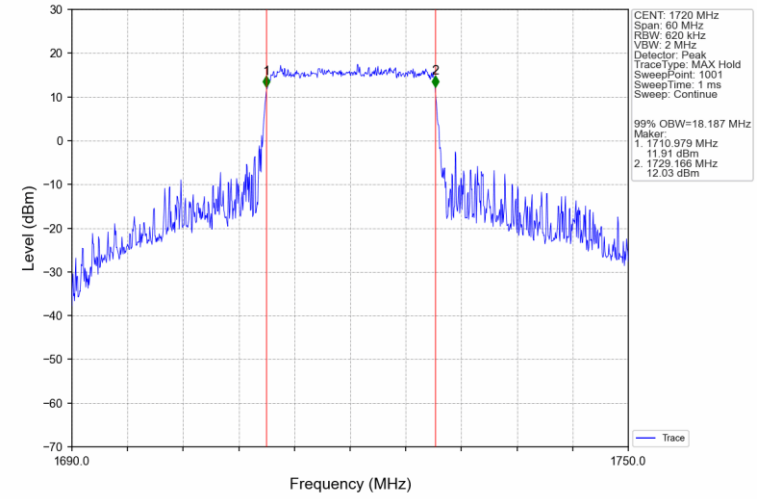
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



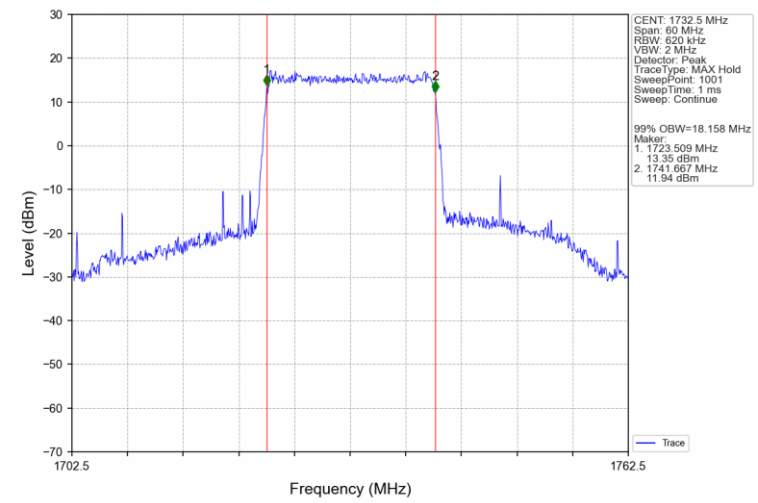
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



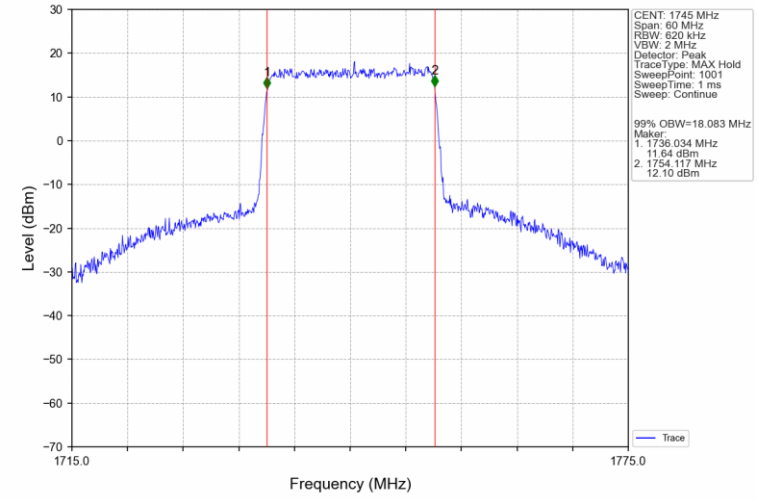
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



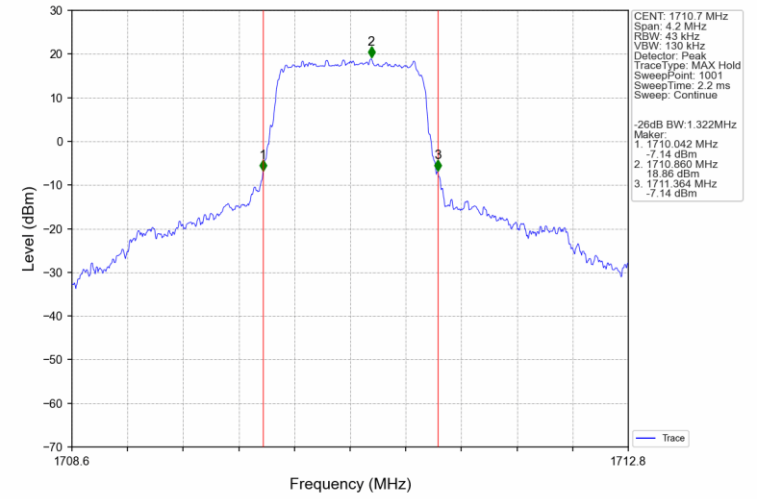
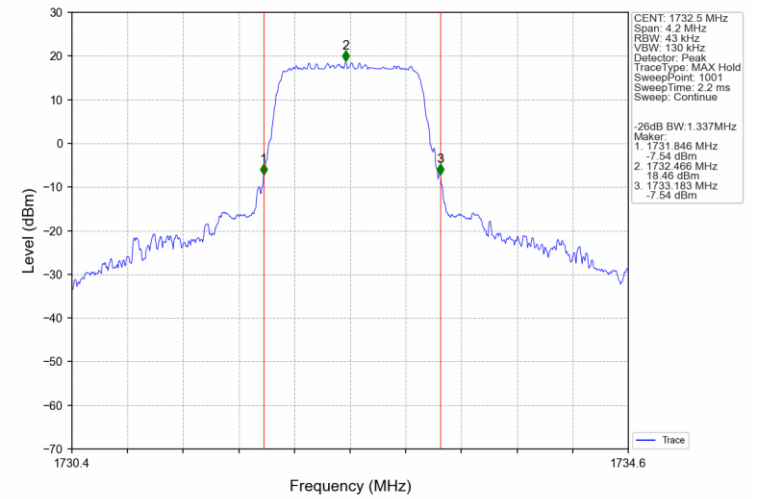
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



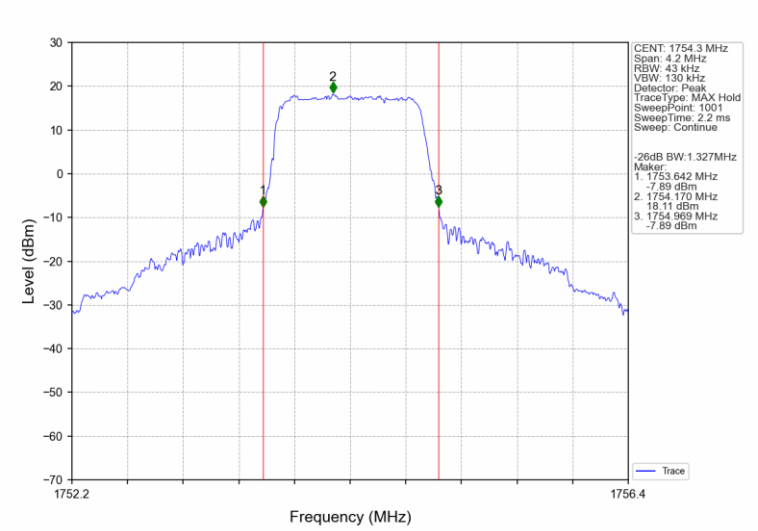
Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



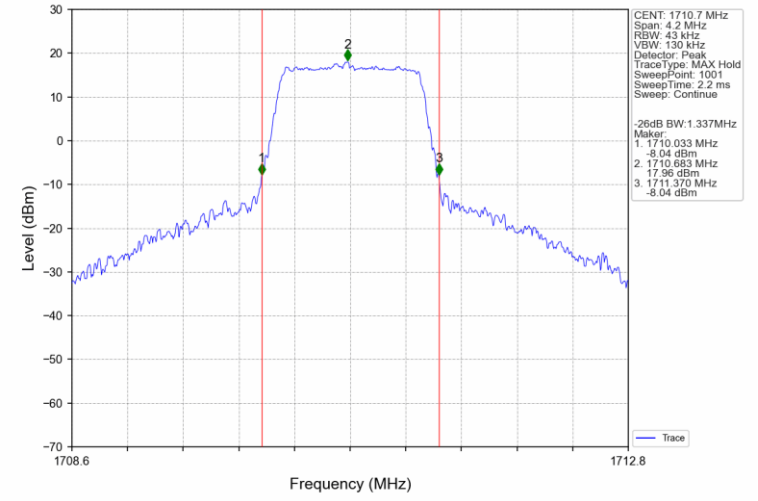
4.2.2 Band4_XDB

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV


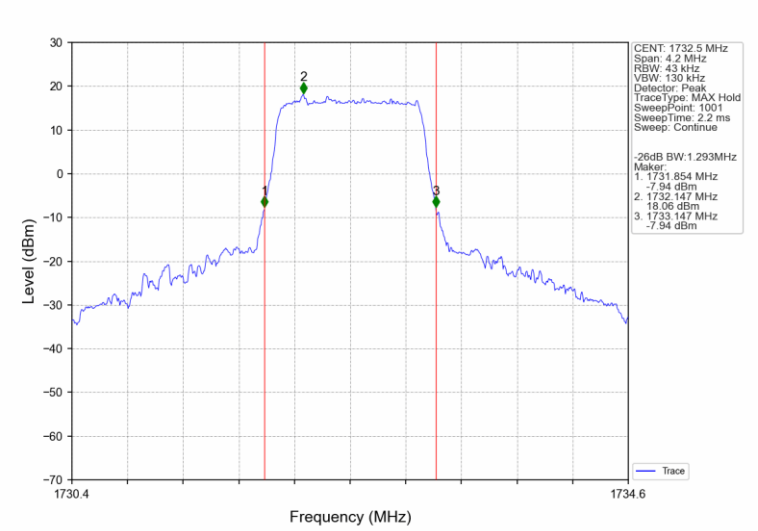
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



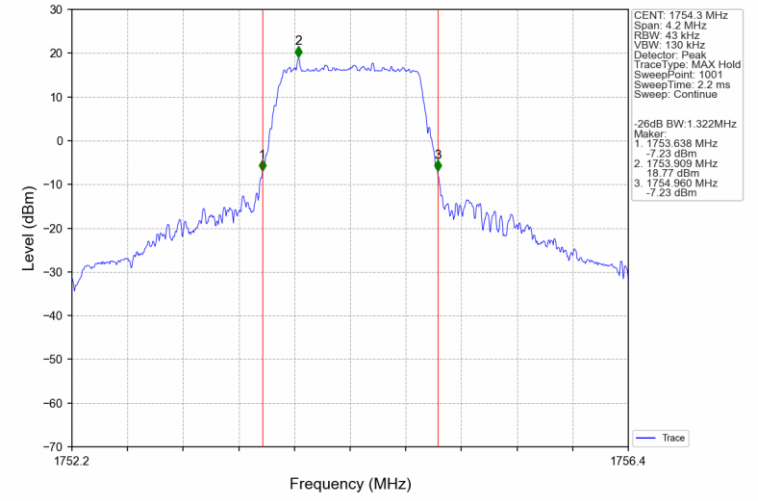
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



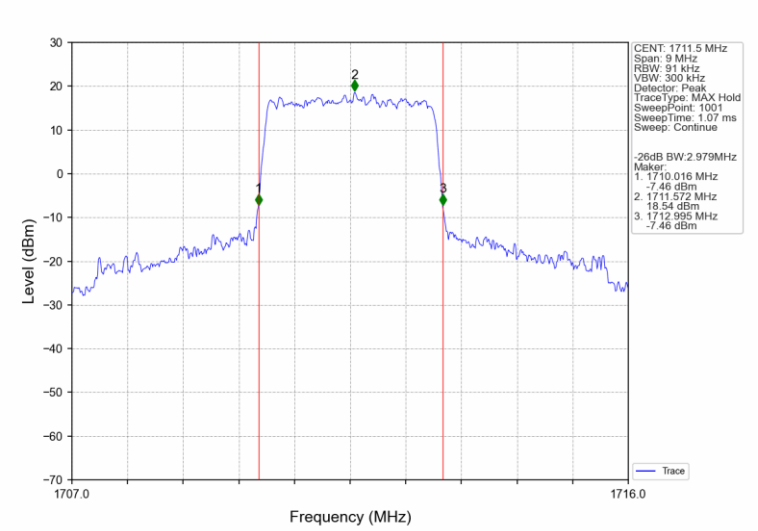
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



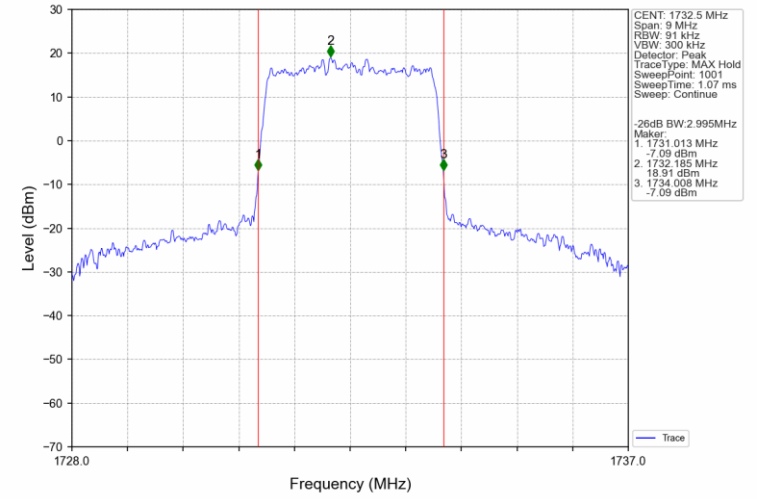
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



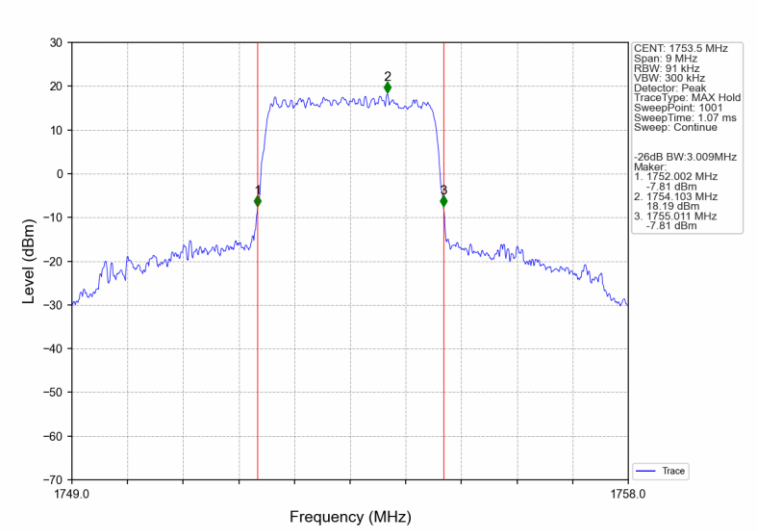
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



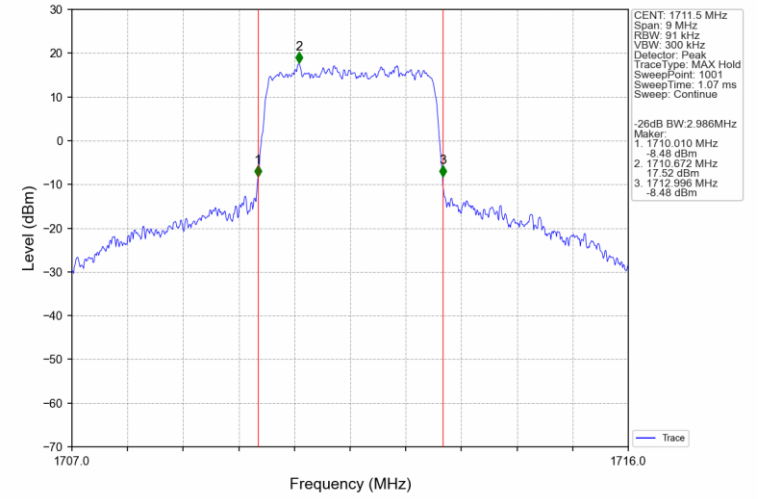
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



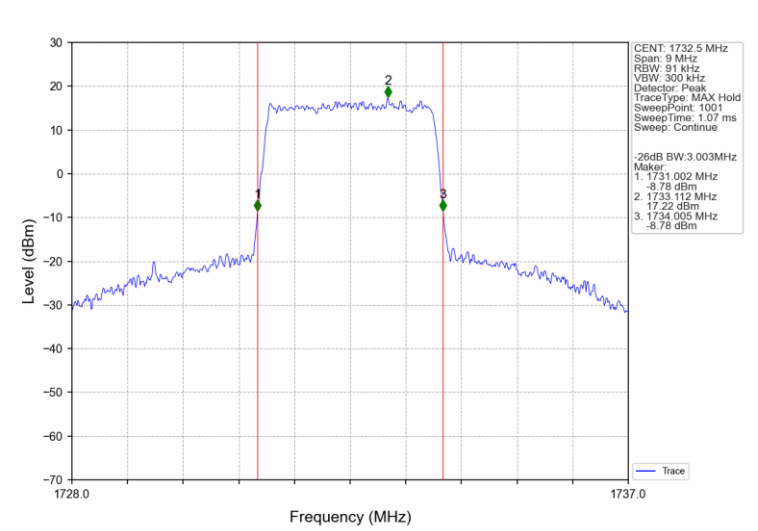
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV