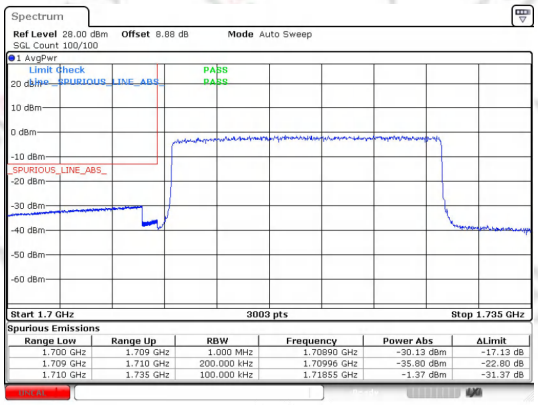
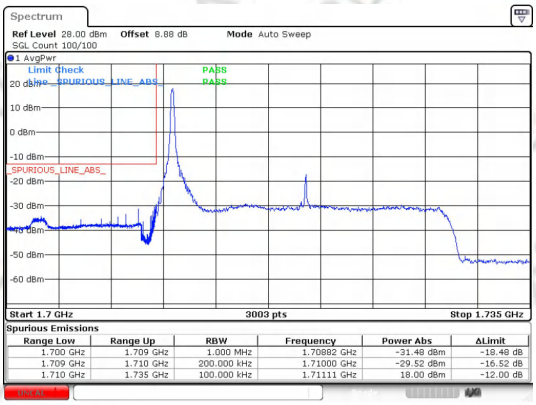
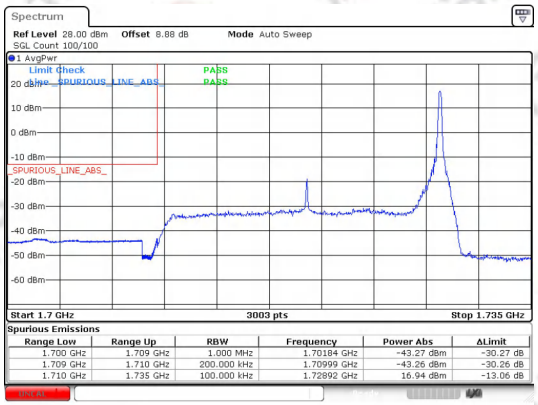


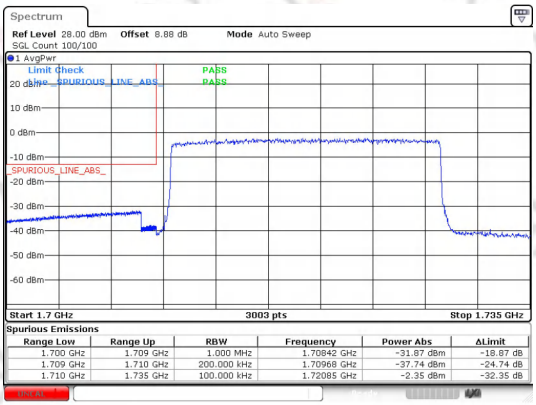
Band 66 20MHz/1720.0/Low QPSK 100@0



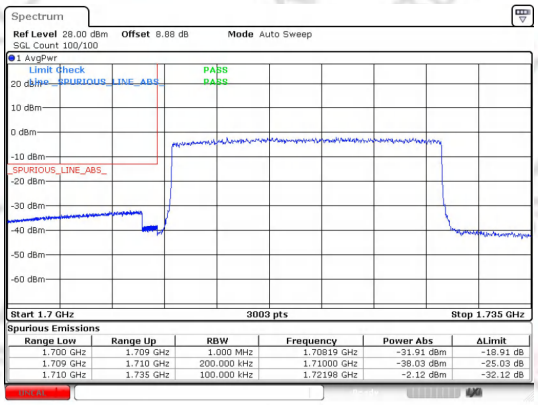
Band 66 20MHz/1720.0/Low 16QAM 1@0



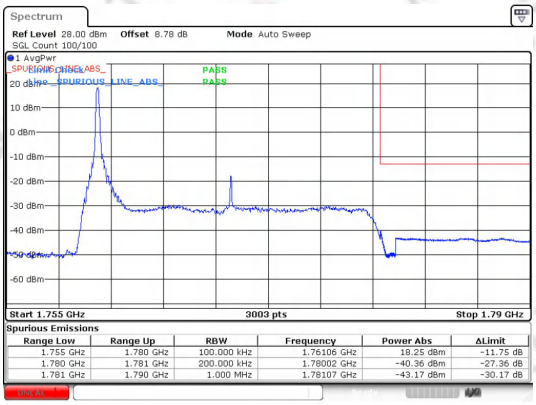
Band 66 20MHz/1720.0/Low 16QAM 1@99



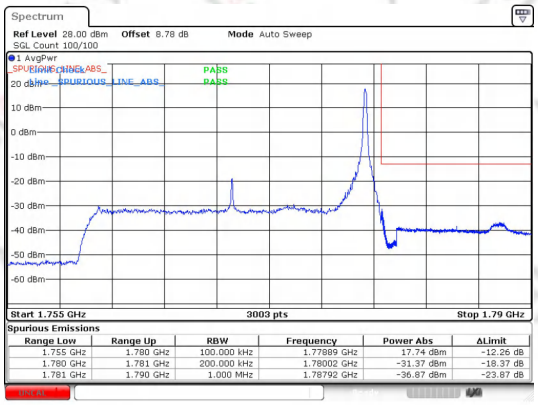
Band 66 20MHz/1720.0/Low 16QAM 100@0



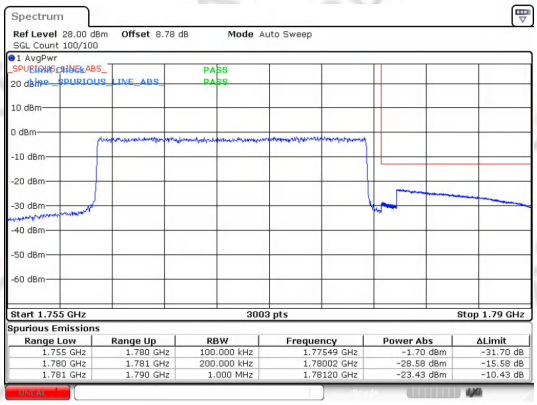
Band 66 20MHz/1720.0/Low 64QAM 100@0



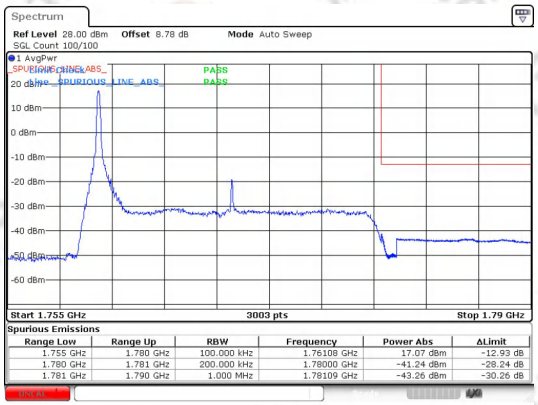
Band 66 20MHz/1770.0/High QPSK 1@0



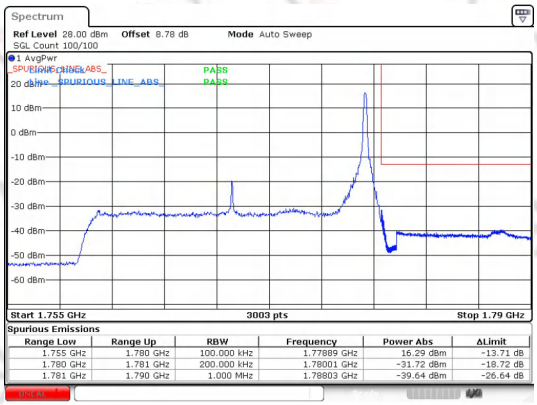
Band 66 20MHz/1770.0/High QPSK 1@99



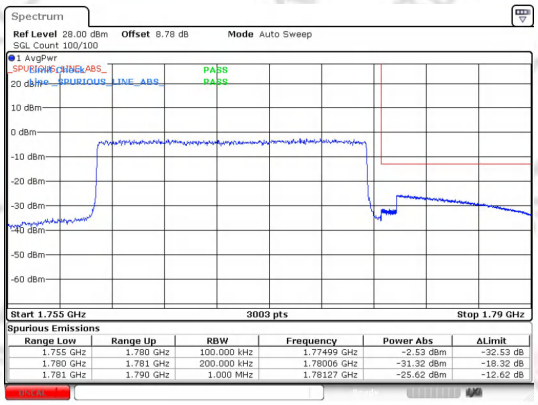
Band 66 20MHz/1770.0/High QPSK 100@0



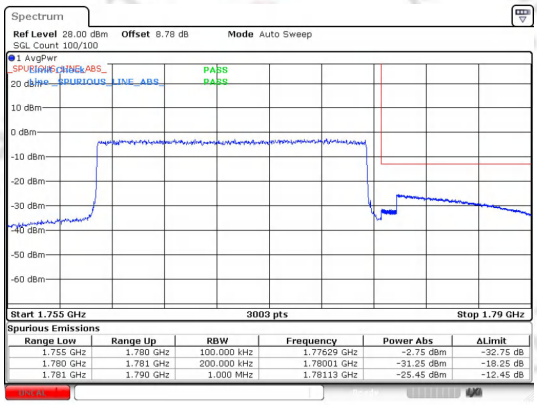
Band 66 20MHz/1770.0/High 16QAM 1@0



Band 66 20MHz/1770.0/High 16QAM 1@99



Band 66 20MHz/1770.0/High 16QAM 100@0



Band 66 20MHz/1770.0/High 64QAM 100@0

Frequency Stability-TH/VH

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
66	1.4	131979	1710.7	QPSK	6@0	-7.54	-0.00441	±2.5	PASS	TH/VH
66	1.4	131979	1710.7	16QAM	6@0	-7.88	-0.00461	±2.5	PASS	TH/VH
66	1.4	132322	1745.0	QPSK	6@0	-6.22	-0.00357	±2.5	PASS	TH/VH
66	1.4	132322	1745.0	16QAM	6@0	-17.25	-0.00989	±2.5	PASS	TH/VH
66	1.4	132665	1779.3	QPSK	6@0	-8.43	-0.00474	±2.5	PASS	TH/VH
66	1.4	132665	1779.3	16QAM	6@0	-44.32	-0.02491	±2.5	PASS	TH/VH
66	3.0	131987	1711.5	QPSK	15@0	-4.81	-0.00281	±2.5	PASS	TH/VH
66	3.0	131987	1711.5	16QAM	15@0	-27.98	-0.01635	±2.5	PASS	TH/VH
66	3.0	132322	1745.0	QPSK	15@0	-13.95	-0.00799	±2.5	PASS	TH/VH
66	3.0	132322	1745.0	16QAM	15@0	-10.66	-0.00611	±2.5	PASS	TH/VH
66	3.0	132657	1778.5	QPSK	15@0	-2.8	-0.00158	±2.5	PASS	TH/VH
66	3.0	132657	1778.5	16QAM	15@0	-19.91	-0.0112	±2.5	PASS	TH/VH
66	5.0	131997	1712.5	QPSK	25@0	-10.81	-0.00632	±2.5	PASS	TH/VH
66	5.0	131997	1712.5	16QAM	25@0	-24.63	-0.01438	±2.5	PASS	TH/VH
66	5.0	132322	1745.0	QPSK	25@0	-7.62	-0.00437	±2.5	PASS	TH/VH
66	5.0	132322	1745.0	16QAM	25@0	-40.87	-0.02342	±2.5	PASS	TH/VH
66	5.0	132647	1777.5	QPSK	25@0	-24.66	-0.01387	±2.5	PASS	TH/VH
66	5.0	132647	1777.5	16QAM	25@0	-29.24	-0.01645	±2.5	PASS	TH/VH
66	10.0	132022	1715.0	QPSK	50@0	-26.75	-0.0156	±2.5	PASS	TH/VH
66	10.0	132022	1715.0	16QAM	50@0	-35.71	-0.02082	±2.5	PASS	TH/VH
66	10.0	132322	1745.0	QPSK	50@0	4.86	0.00279	±2.5	PASS	TH/VH
66	10.0	132322	1745.0	16QAM	50@0	-27.51	-0.01576	±2.5	PASS	TH/VH
66	10.0	132622	1775.0	QPSK	50@0	-3.63	-0.00205	±2.5	PASS	TH/VH
66	10.0	132622	1775.0	16QAM	50@0	-36.66	-0.02066	±2.5	PASS	TH/VH
66	15.0	132047	1717.5	QPSK	75@0	-14.13	-0.00823	±2.5	PASS	TH/VH
66	15.0	132047	1717.5	16QAM	75@0	-31.77	-0.0185	±2.5	PASS	TH/VH
66	15.0	132322	1745.0	QPSK	75@0	-4.66	-0.00267	±2.5	PASS	TH/VH
66	15.0	132322	1745.0	16QAM	75@0	-31.0	-0.01776	±2.5	PASS	TH/VH
66	15.0	132597	1772.5	QPSK	75@0	-4.55	-0.00257	±2.5	PASS	TH/VH
66	15.0	132597	1772.5	16QAM	75@0	-6.58	-0.00371	±2.5	PASS	TH/VH
66	20.0	132072	1720.0	QPSK	100@0	-20.06	-0.01166	±2.5	PASS	TH/VH
66	20.0	132072	1720.0	16QAM	100@0	-26.62	-0.01548	±2.5	PASS	TH/VH
66	20.0	132322	1745.0	QPSK	100@0	-2.73	-0.00157	±2.5	PASS	TH/VH
66	20.0	132322	1745.0	16QAM	100@0	-24.88	-0.01426	±2.5	PASS	TH/VH
66	20.0	132572	1770.0	QPSK	100@0	-15.98	-0.00903	±2.5	PASS	TH/VH
66	20.0	132572	1770.0	16QAM	100@0	-23.3	-0.01317	±2.5	PASS	TH/VH

Frequency Stability-TH/VL

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
66	1.4	131979	1710.7	QPSK	6@0	-21.59	-0.01262	±2.5	PASS	TH/VL
66	1.4	131979	1710.7	16QAM	6@0	4.62	0.0027	±2.5	PASS	TH/VL
66	1.4	132322	1745.0	QPSK	6@0	-12.62	-0.00723	±2.5	PASS	TH/VL
66	1.4	132322	1745.0	16QAM	6@0	-9.16	-0.00525	±2.5	PASS	TH/VL
66	1.4	132665	1779.3	QPSK	6@0	-18.74	-0.01053	±2.5	PASS	TH/VL
66	1.4	132665	1779.3	16QAM	6@0	-29.21	-0.01642	±2.5	PASS	TH/VL
66	3.0	131987	1711.5	QPSK	15@0	-25.72	-0.01503	±2.5	PASS	TH/VL
66	3.0	131987	1711.5	16QAM	15@0	-4.33	-0.00253	±2.5	PASS	TH/VL
66	3.0	132322	1745.0	QPSK	15@0	-0.6	-0.00034	±2.5	PASS	TH/VL
66	3.0	132322	1745.0	16QAM	15@0	-6.05	-0.00347	±2.5	PASS	TH/VL
66	3.0	132657	1778.5	QPSK	15@0	3.16	0.00178	±2.5	PASS	TH/VL
66	3.0	132657	1778.5	16QAM	15@0	-20.63	-0.0116	±2.5	PASS	TH/VL
66	5.0	131997	1712.5	QPSK	25@0	-18.05	-0.01054	±2.5	PASS	TH/VL
66	5.0	131997	1712.5	16QAM	25@0	-12.8	-0.00748	±2.5	PASS	TH/VL
66	5.0	132322	1745.0	QPSK	25@0	-8.91	-0.00511	±2.5	PASS	TH/VL
66	5.0	132322	1745.0	16QAM	25@0	-6.09	-0.00349	±2.5	PASS	TH/VL
66	5.0	132647	1777.5	QPSK	25@0	-11.43	-0.00643	±2.5	PASS	TH/VL
66	5.0	132647	1777.5	16QAM	25@0	-23.13	-0.01301	±2.5	PASS	TH/VL
66	10.0	132022	1715.0	QPSK	50@0	-12.4	-0.00723	±2.5	PASS	TH/VL
66	10.0	132022	1715.0	16QAM	50@0	-32.24	-0.0188	±2.5	PASS	TH/VL
66	10.0	132322	1745.0	QPSK	50@0	0.49	0.00028	±2.5	PASS	TH/VL
66	10.0	132322	1745.0	16QAM	50@0	-32.16	-0.01843	±2.5	PASS	TH/VL
66	10.0	132622	1775.0	QPSK	50@0	-32.29	-0.01819	±2.5	PASS	TH/VL
66	10.0	132622	1775.0	16QAM	50@0	-50.73	-0.02858	±2.5	PASS	TH/VL
66	15.0	132047	1717.5	QPSK	75@0	-12.07	-0.00703	±2.5	PASS	TH/VL
66	15.0	132047	1717.5	16QAM	75@0	-32.52	-0.01893	±2.5	PASS	TH/VL
66	15.0	132322	1745.0	QPSK	75@0	-10.81	-0.0062	±2.5	PASS	TH/VL
66	15.0	132322	1745.0	16QAM	75@0	8.91	0.00511	±2.5	PASS	TH/VL
66	15.0	132597	1772.5	QPSK	75@0	-20.61	-0.01163	±2.5	PASS	TH/VL
66	15.0	132597	1772.5	16QAM	75@0	-32.92	-0.01857	±2.5	PASS	TH/VL
66	20.0	132072	1720.0	QPSK	100@0	-14.1	-0.0082	±2.5	PASS	TH/VL
66	20.0	132072	1720.0	16QAM	100@0	-30.57	-0.01777	±2.5	PASS	TH/VL
66	20.0	132322	1745.0	QPSK	100@0	-15.48	-0.00887	±2.5	PASS	TH/VL
66	20.0	132322	1745.0	16QAM	100@0	-8.37	-0.0048	±2.5	PASS	TH/VL
66	20.0	132572	1770.0	QPSK	100@0	-11.06	-0.00625	±2.5	PASS	TH/VL
66	20.0	132572	1770.0	16QAM	100@0	-16.65	-0.00941	±2.5	PASS	TH/VL

Frequency Stability-TH/VN

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
66	1.4	131979	1710.7	QPSK	6@0	-6.79	-0.00397	±2.5	PASS	TH/VN
66	1.4	131979	1710.7	16QAM	6@0	-23.17	-0.01355	±2.5	PASS	TH/VN
66	1.4	132322	1745.0	QPSK	6@0	9.01	0.00516	±2.5	PASS	TH/VN
66	1.4	132322	1745.0	16QAM	6@0	17.08	0.00979	±2.5	PASS	TH/VN
66	1.4	132665	1779.3	QPSK	6@0	-7.27	-0.00408	±2.5	PASS	TH/VN
66	1.4	132665	1779.3	16QAM	6@0	-7.04	-0.00396	±2.5	PASS	TH/VN
66	3.0	131987	1711.5	QPSK	15@0	-8.43	-0.00492	±2.5	PASS	TH/VN
66	3.0	131987	1711.5	16QAM	15@0	-10.37	-0.00606	±2.5	PASS	TH/VN
66	3.0	132322	1745.0	QPSK	15@0	-11.44	-0.00656	±2.5	PASS	TH/VN
66	3.0	132322	1745.0	16QAM	15@0	-26.29	-0.01507	±2.5	PASS	TH/VN
66	3.0	132657	1778.5	QPSK	15@0	-17.48	-0.00983	±2.5	PASS	TH/VN
66	3.0	132657	1778.5	16QAM	15@0	-7.78	-0.00438	±2.5	PASS	TH/VN
66	5.0	131997	1712.5	QPSK	25@0	-23.98	-0.014	±2.5	PASS	TH/VN
66	5.0	131997	1712.5	16QAM	25@0	-12.02	-0.00702	±2.5	PASS	TH/VN
66	5.0	132322	1745.0	QPSK	25@0	-17.48	-0.01002	±2.5	PASS	TH/VN
66	5.0	132322	1745.0	16QAM	25@0	3.85	0.00221	±2.5	PASS	TH/VN
66	5.0	132647	1777.5	QPSK	25@0	-9.26	-0.00521	±2.5	PASS	TH/VN
66	5.0	132647	1777.5	16QAM	25@0	-37.32	-0.021	±2.5	PASS	TH/VN
66	10.0	132022	1715.0	QPSK	50@0	-30.37	-0.01771	±2.5	PASS	TH/VN
66	10.0	132022	1715.0	16QAM	50@0	-1.52	-0.00088	±2.5	PASS	TH/VN
66	10.0	132322	1745.0	QPSK	50@0	-5.75	-0.0033	±2.5	PASS	TH/VN
66	10.0	132322	1745.0	16QAM	50@0	-32.04	-0.01836	±2.5	PASS	TH/VN
66	10.0	132622	1775.0	QPSK	50@0	-5.88	-0.00331	±2.5	PASS	TH/VN
66	10.0	132622	1775.0	16QAM	50@0	-28.77	-0.01621	±2.5	PASS	TH/VN
66	15.0	132047	1717.5	QPSK	75@0	-18.07	-0.01052	±2.5	PASS	TH/VN
66	15.0	132047	1717.5	16QAM	75@0	-42.6	-0.0248	±2.5	PASS	TH/VN
66	15.0	132322	1745.0	QPSK	75@0	-15.94	-0.00913	±2.5	PASS	TH/VN
66	15.0	132322	1745.0	16QAM	75@0	-2.95	-0.00169	±2.5	PASS	TH/VN
66	15.0	132597	1772.5	QPSK	75@0	-24.52	-0.01383	±2.5	PASS	TH/VN
66	15.0	132597	1772.5	16QAM	75@0	-22.12	-0.01248	±2.5	PASS	TH/VN
66	20.0	132072	1720.0	QPSK	100@0	-32.26	-0.01875	±2.5	PASS	TH/VN
66	20.0	132072	1720.0	16QAM	100@0	-0.62	-0.00036	±2.5	PASS	TH/VN
66	20.0	132322	1745.0	QPSK	100@0	-16.45	-0.00943	±2.5	PASS	TH/VN
66	20.0	132322	1745.0	16QAM	100@0	-1.89	-0.00108	±2.5	PASS	TH/VN
66	20.0	132572	1770.0	QPSK	100@0	-16.58	-0.00937	±2.5	PASS	TH/VN
66	20.0	132572	1770.0	16QAM	100@0	-16.69	-0.00943	±2.5	PASS	TH/VN

Frequency Stability-TL/VN

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
66	1.4	131979	1710.7	QPSK	6@0	1.13	0.00066	±2.5	PASS	TL/VN
66	1.4	131979	1710.7	16QAM	6@0	-9.2	-0.00538	±2.5	PASS	TL/VN
66	1.4	132322	1745.0	QPSK	6@0	-6.09	-0.00349	±2.5	PASS	TL/VN
66	1.4	132322	1745.0	16QAM	6@0	0.99	0.00057	±2.5	PASS	TL/VN
66	1.4	132665	1779.3	QPSK	6@0	-4.65	-0.00261	±2.5	PASS	TL/VN
66	1.4	132665	1779.3	16QAM	6@0	-37.52	-0.02109	±2.5	PASS	TL/VN
66	3.0	131987	1711.5	QPSK	15@0	-5.68	-0.00332	±2.5	PASS	TL/VN
66	3.0	131987	1711.5	16QAM	15@0	-21.2	-0.01239	±2.5	PASS	TL/VN
66	3.0	132322	1745.0	QPSK	15@0	8.47	0.00485	±2.5	PASS	TL/VN
66	3.0	132322	1745.0	16QAM	15@0	-8.81	-0.00505	±2.5	PASS	TL/VN
66	3.0	132657	1778.5	QPSK	15@0	-30.93	-0.01739	±2.5	PASS	TL/VN
66	3.0	132657	1778.5	16QAM	15@0	-24.48	-0.01376	±2.5	PASS	TL/VN
66	5.0	131997	1712.5	QPSK	25@0	-42.97	-0.02509	±2.5	PASS	TL/VN
66	5.0	131997	1712.5	16QAM	25@0	-17.9	-0.01045	±2.5	PASS	TL/VN
66	5.0	132322	1745.0	QPSK	25@0	2.68	0.00153	±2.5	PASS	TL/VN
66	5.0	132322	1745.0	16QAM	25@0	-12.04	-0.0069	±2.5	PASS	TL/VN
66	5.0	132647	1777.5	QPSK	25@0	-25.33	-0.01425	±2.5	PASS	TL/VN
66	5.0	132647	1777.5	16QAM	25@0	-24.19	-0.01361	±2.5	PASS	TL/VN
66	10.0	132022	1715.0	QPSK	50@0	-17.25	-0.01006	±2.5	PASS	TL/VN
66	10.0	132022	1715.0	16QAM	50@0	-32.11	-0.01873	±2.5	PASS	TL/VN
66	10.0	132322	1745.0	QPSK	50@0	-0.97	-0.00056	±2.5	PASS	TL/VN
66	10.0	132322	1745.0	16QAM	50@0	-17.54	-0.01005	±2.5	PASS	TL/VN
66	10.0	132622	1775.0	QPSK	50@0	-20.91	-0.01178	±2.5	PASS	TL/VN
66	10.0	132622	1775.0	16QAM	50@0	-15.81	-0.00891	±2.5	PASS	TL/VN
66	15.0	132047	1717.5	QPSK	75@0	-14.42	-0.0084	±2.5	PASS	TL/VN
66	15.0	132047	1717.5	16QAM	75@0	-27.29	-0.01589	±2.5	PASS	TL/VN
66	15.0	132322	1745.0	QPSK	75@0	5.99	0.00343	±2.5	PASS	TL/VN
66	15.0	132322	1745.0	16QAM	75@0	-21.26	-0.01218	±2.5	PASS	TL/VN
66	15.0	132597	1772.5	QPSK	75@0	-17.17	-0.00968	±2.5	PASS	TL/VN
66	15.0	132597	1772.5	16QAM	75@0	-33.35	-0.01881	±2.5	PASS	TL/VN
66	20.0	132072	1720.0	QPSK	100@0	-8.73	-0.00507	±2.5	PASS	TL/VN
66	20.0	132072	1720.0	16QAM	100@0	-21.66	-0.01259	±2.5	PASS	TL/VN
66	20.0	132322	1745.0	QPSK	100@0	-18.32	-0.0105	±2.5	PASS	TL/VN
66	20.0	132322	1745.0	16QAM	100@0	-35.02	-0.02007	±2.5	PASS	TL/VN
66	20.0	132572	1770.0	QPSK	100@0	0.64	0.00036	±2.5	PASS	TL/VN
66	20.0	132572	1770.0	16QAM	100@0	-16.08	-0.00908	±2.5	PASS	TL/VN

Frequency Stability-TN/VH

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
66	1.4	131979	1710.7	QPSK	6@0	-31.69	-0.01852	±2.5	PASS	TN/VH
66	1.4	131979	1710.7	16QAM	6@0	-16.71	-0.00977	±2.5	PASS	TN/VH
66	1.4	132322	1745.0	QPSK	6@0	7.54	0.00432	±2.5	PASS	TN/VH
66	1.4	132322	1745.0	16QAM	6@0	-32.96	-0.01889	±2.5	PASS	TN/VH
66	1.4	132665	1779.3	QPSK	6@0	-13.95	-0.00784	±2.5	PASS	TN/VH
66	1.4	132665	1779.3	16QAM	6@0	-1.37	-0.00077	±2.5	PASS	TN/VH
66	3.0	131987	1711.5	QPSK	15@0	-11.14	-0.00651	±2.5	PASS	TN/VH
66	3.0	131987	1711.5	16QAM	15@0	0.6	0.00035	±2.5	PASS	TN/VH
66	3.0	132322	1745.0	QPSK	15@0	2.27	0.0013	±2.5	PASS	TN/VH
66	3.0	132322	1745.0	16QAM	15@0	-9.77	-0.0056	±2.5	PASS	TN/VH
66	3.0	132657	1778.5	QPSK	15@0	-7.94	-0.00446	±2.5	PASS	TN/VH
66	3.0	132657	1778.5	16QAM	15@0	-38.67	-0.02174	±2.5	PASS	TN/VH
66	5.0	131997	1712.5	QPSK	25@0	-7.47	-0.00436	±2.5	PASS	TN/VH
66	5.0	131997	1712.5	16QAM	25@0	-38.42	-0.02244	±2.5	PASS	TN/VH
66	5.0	132322	1745.0	QPSK	25@0	-1.03	-0.00059	±2.5	PASS	TN/VH
66	5.0	132322	1745.0	16QAM	25@0	-3.28	-0.00188	±2.5	PASS	TN/VH
66	5.0	132647	1777.5	QPSK	25@0	-25.28	-0.01422	±2.5	PASS	TN/VH
66	5.0	132647	1777.5	16QAM	25@0	-33.57	-0.01889	±2.5	PASS	TN/VH
66	10.0	132022	1715.0	QPSK	50@0	-33.23	-0.01938	±2.5	PASS	TN/VH
66	10.0	132022	1715.0	16QAM	50@0	-41.64	-0.02428	±2.5	PASS	TN/VH
66	10.0	132322	1745.0	QPSK	50@0	-11.29	-0.00647	±2.5	PASS	TN/VH
66	10.0	132322	1745.0	16QAM	50@0	-23.12	-0.01325	±2.5	PASS	TN/VH
66	10.0	132622	1775.0	QPSK	50@0	-13.75	-0.00774	±2.5	PASS	TN/VH
66	10.0	132622	1775.0	16QAM	50@0	-46.88	-0.02641	±2.5	PASS	TN/VH
66	15.0	132047	1717.5	QPSK	75@0	-11.43	-0.00665	±2.5	PASS	TN/VH
66	15.0	132047	1717.5	16QAM	75@0	-8.33	-0.00485	±2.5	PASS	TN/VH
66	15.0	132322	1745.0	QPSK	75@0	-16.01	-0.00917	±2.5	PASS	TN/VH
66	15.0	132322	1745.0	16QAM	75@0	2.4	0.00138	±2.5	PASS	TN/VH
66	15.0	132597	1772.5	QPSK	75@0	-20.61	-0.01163	±2.5	PASS	TN/VH
66	15.0	132597	1772.5	16QAM	75@0	-3.86	-0.00218	±2.5	PASS	TN/VH
66	20.0	132072	1720.0	QPSK	100@0	-22.44	-0.01305	±2.5	PASS	TN/VH
66	20.0	132072	1720.0	16QAM	100@0	-26.01	-0.01512	±2.5	PASS	TN/VH
66	20.0	132322	1745.0	QPSK	100@0	8.35	0.00479	±2.5	PASS	TN/VH
66	20.0	132322	1745.0	16QAM	100@0	-31.99	-0.01833	±2.5	PASS	TN/VH
66	20.0	132572	1770.0	QPSK	100@0	-18.61	-0.01051	±2.5	PASS	TN/VH
66	20.0	132572	1770.0	16QAM	100@0	-27.21	-0.01537	±2.5	PASS	TN/VH

Frequency Stability-TN/VL

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
66	1.4	131979	1710.7	QPSK	6@0	-15.46	-0.00904	±2.5	PASS	TN/VL
66	1.4	131979	1710.7	16QAM	6@0	-25.12	-0.01468	±2.5	PASS	TN/VL
66	1.4	132322	1745.0	QPSK	6@0	-13.15	-0.00753	±2.5	PASS	TN/VL
66	1.4	132322	1745.0	16QAM	6@0	-42.69	-0.02446	±2.5	PASS	TN/VL
66	1.4	132665	1779.3	QPSK	6@0	-28.75	-0.01616	±2.5	PASS	TN/VL
66	1.4	132665	1779.3	16QAM	6@0	-29.03	-0.01631	±2.5	PASS	TN/VL
66	3.0	131987	1711.5	QPSK	15@0	-16.75	-0.00979	±2.5	PASS	TN/VL
66	3.0	131987	1711.5	16QAM	15@0	-38.9	-0.02273	±2.5	PASS	TN/VL
66	3.0	132322	1745.0	QPSK	15@0	-1.42	-0.00081	±2.5	PASS	TN/VL
66	3.0	132322	1745.0	16QAM	15@0	-4.81	-0.00275	±2.5	PASS	TN/VL
66	3.0	132657	1778.5	QPSK	15@0	-21.82	-0.01227	±2.5	PASS	TN/VL
66	3.0	132657	1778.5	16QAM	15@0	-12.83	-0.00721	±2.5	PASS	TN/VL
66	5.0	131997	1712.5	QPSK	25@0	17.8	0.01039	±2.5	PASS	TN/VL
66	5.0	131997	1712.5	16QAM	25@0	29.44	0.01719	±2.5	PASS	TN/VL
66	5.0	132322	1745.0	QPSK	25@0	17.57	0.01007	±2.5	PASS	TN/VL
66	5.0	132322	1745.0	16QAM	25@0	36.46	0.0209	±2.5	PASS	TN/VL
66	5.0	132647	1777.5	QPSK	25@0	5.21	0.00293	±2.5	PASS	TN/VL
66	5.0	132647	1777.5	16QAM	25@0	19.8	0.01114	±2.5	PASS	TN/VL
66	10.0	132022	1715.0	QPSK	50@0	12.72	0.00742	±2.5	PASS	TN/VL
66	10.0	132022	1715.0	16QAM	50@0	17.87	0.01042	±2.5	PASS	TN/VL
66	10.0	132322	1745.0	QPSK	50@0	0.32	0.00018	±2.5	PASS	TN/VL
66	10.0	132322	1745.0	16QAM	50@0	39.47	0.02262	±2.5	PASS	TN/VL
66	10.0	132622	1775.0	QPSK	50@0	-13.45	-0.00758	±2.5	PASS	TN/VL
66	10.0	132622	1775.0	16QAM	50@0	-27.04	-0.01523	±2.5	PASS	TN/VL
66	15.0	132047	1717.5	QPSK	75@0	-19.77	-0.01151	±2.5	PASS	TN/VL
66	15.0	132047	1717.5	16QAM	75@0	-27.04	-0.01574	±2.5	PASS	TN/VL
66	15.0	132322	1745.0	QPSK	75@0	11.54	0.00662	±2.5	PASS	TN/VL
66	15.0	132322	1745.0	16QAM	75@0	16.61	0.00952	±2.5	PASS	TN/VL
66	15.0	132597	1772.5	QPSK	75@0	-4.75	-0.00268	±2.5	PASS	TN/VL
66	15.0	132597	1772.5	16QAM	75@0	-40.61	-0.02291	±2.5	PASS	TN/VL
66	20.0	132072	1720.0	QPSK	100@0	-6.85	-0.00398	±2.5	PASS	TN/VL
66	20.0	132072	1720.0	16QAM	100@0	-18.98	-0.01104	±2.5	PASS	TN/VL
66	20.0	132322	1745.0	QPSK	100@0	-9.41	-0.00539	±2.5	PASS	TN/VL
66	20.0	132322	1745.0	16QAM	100@0	-17.02	-0.00976	±2.5	PASS	TN/VL
66	20.0	132572	1770.0	QPSK	100@0	-24.99	-0.01412	±2.5	PASS	TN/VL
66	20.0	132572	1770.0	16QAM	100@0	-22.75	-0.01285	±2.5	PASS	TN/VL

Frequency Stability-TL/VH

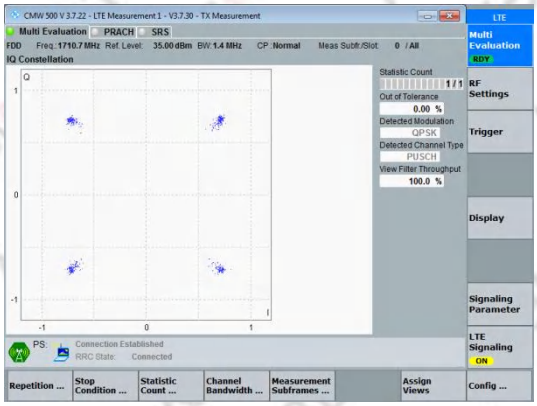
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
66	1.4	131979	1710.7	QPSK	6@0	-6.09	-0.00356	±2.5	PASS	TL/VH
66	1.4	131979	1710.7	16QAM	6@0	-38.78	-0.02267	±2.5	PASS	TL/VH
66	1.4	132322	1745.0	QPSK	6@0	-22.09	-0.01266	±2.5	PASS	TL/VH
66	1.4	132322	1745.0	16QAM	6@0	-20.93	-0.01199	±2.5	PASS	TL/VH
66	1.4	132665	1779.3	QPSK	6@0	-12.77	-0.00718	±2.5	PASS	TL/VH
66	1.4	132665	1779.3	16QAM	6@0	-36.38	-0.02045	±2.5	PASS	TL/VH
66	3.0	131987	1711.5	QPSK	15@0	-20.4	-0.01192	±2.5	PASS	TL/VH
66	3.0	131987	1711.5	16QAM	15@0	-0.87	-0.00051	±2.5	PASS	TL/VH
66	3.0	132322	1745.0	QPSK	15@0	-10.51	-0.00603	±2.5	PASS	TL/VH
66	3.0	132322	1745.0	16QAM	15@0	-17.05	-0.00977	±2.5	PASS	TL/VH
66	3.0	132657	1778.5	QPSK	15@0	-14.05	-0.0079	±2.5	PASS	TL/VH
66	3.0	132657	1778.5	16QAM	15@0	-14.35	-0.00807	±2.5	PASS	TL/VH
66	5.0	131997	1712.5	QPSK	25@0	-27.59	-0.01611	±2.5	PASS	TL/VH
66	5.0	131997	1712.5	16QAM	25@0	-43.87	-0.02562	±2.5	PASS	TL/VH
66	5.0	132322	1745.0	QPSK	25@0	-16.62	-0.00953	±2.5	PASS	TL/VH
66	5.0	132322	1745.0	16QAM	25@0	-11.6	-0.00665	±2.5	PASS	TL/VH
66	5.0	132647	1777.5	QPSK	25@0	-11.93	-0.00671	±2.5	PASS	TL/VH
66	5.0	132647	1777.5	16QAM	25@0	-41.86	-0.02355	±2.5	PASS	TL/VH
66	10.0	132022	1715.0	QPSK	50@0	-12.59	-0.00734	±2.5	PASS	TL/VH
66	10.0	132022	1715.0	16QAM	50@0	-32.86	-0.01916	±2.5	PASS	TL/VH
66	10.0	132322	1745.0	QPSK	50@0	-15.89	-0.00911	±2.5	PASS	TL/VH
66	10.0	132322	1745.0	16QAM	50@0	-3.76	-0.00216	±2.5	PASS	TL/VH
66	10.0	132622	1775.0	QPSK	50@0	5.24	0.00295	±2.5	PASS	TL/VH
66	10.0	132622	1775.0	16QAM	50@0	-20.27	-0.01142	±2.5	PASS	TL/VH
66	15.0	132047	1717.5	QPSK	75@0	-17.95	-0.01045	±2.5	PASS	TL/VH
66	15.0	132047	1717.5	16QAM	75@0	-33.16	-0.01931	±2.5	PASS	TL/VH
66	15.0	132322	1745.0	QPSK	75@0	-14.06	-0.00806	±2.5	PASS	TL/VH
66	15.0	132322	1745.0	16QAM	75@0	-3.78	-0.00216	±2.5	PASS	TL/VH
66	15.0	132597	1772.5	QPSK	75@0	-34.06	-0.01922	±2.5	PASS	TL/VH
66	15.0	132597	1772.5	16QAM	75@0	-40.68	-0.02295	±2.5	PASS	TL/VH
66	20.0	132072	1720.0	QPSK	100@0	-9.68	-0.00563	±2.5	PASS	TL/VH
66	20.0	132072	1720.0	16QAM	100@0	-26.52	-0.01542	±2.5	PASS	TL/VH
66	20.0	132322	1745.0	QPSK	100@0	-4.68	-0.00268	±2.5	PASS	TL/VH
66	20.0	132322	1745.0	16QAM	100@0	-34.02	-0.01949	±2.5	PASS	TL/VH
66	20.0	132572	1770.0	QPSK	100@0	0.2	0.00011	±2.5	PASS	TL/VH
66	20.0	132572	1770.0	16QAM	100@0	-17.08	-0.00965	±2.5	PASS	TL/VH

Frequency Stability-TL/VL

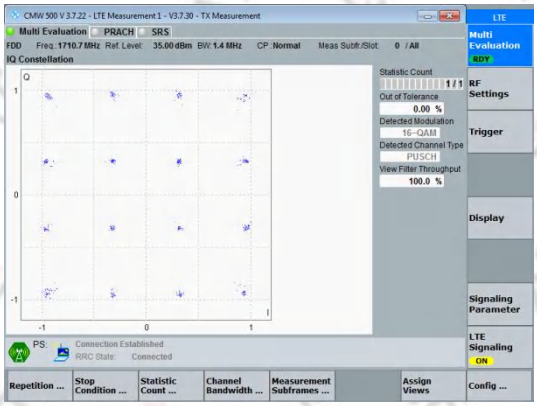
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
66	1.4	131979	1710.7	QPSK	6@0	-13.68	-0.00799	±2.5	PASS	TL/VL
66	1.4	131979	1710.7	16QAM	6@0	-20.27	-0.01185	±2.5	PASS	TL/VL
66	1.4	132322	1745.0	QPSK	6@0	-20.41	-0.0117	±2.5	PASS	TL/VL
66	1.4	132322	1745.0	16QAM	6@0	2.75	0.00157	±2.5	PASS	TL/VL
66	1.4	132665	1779.3	QPSK	6@0	-14.05	-0.0079	±2.5	PASS	TL/VL
66	1.4	132665	1779.3	16QAM	6@0	-29.33	-0.01648	±2.5	PASS	TL/VL
66	3.0	131987	1711.5	QPSK	15@0	-26.02	-0.0152	±2.5	PASS	TL/VL
66	3.0	131987	1711.5	16QAM	15@0	-8.04	-0.0047	±2.5	PASS	TL/VL
66	3.0	132322	1745.0	QPSK	15@0	6.29	0.00361	±2.5	PASS	TL/VL
66	3.0	132322	1745.0	16QAM	15@0	-25.72	-0.01474	±2.5	PASS	TL/VL
66	3.0	132657	1778.5	QPSK	15@0	-17.42	-0.0098	±2.5	PASS	TL/VL
66	3.0	132657	1778.5	16QAM	15@0	-16.94	-0.00952	±2.5	PASS	TL/VL
66	5.0	131997	1712.5	QPSK	25@0	-20.44	-0.01194	±2.5	PASS	TL/VL
66	5.0	131997	1712.5	16QAM	25@0	-12.75	-0.00744	±2.5	PASS	TL/VL
66	5.0	132322	1745.0	QPSK	25@0	-0.86	-0.00049	±2.5	PASS	TL/VL
66	5.0	132322	1745.0	16QAM	25@0	11.8	0.00676	±2.5	PASS	TL/VL
66	5.0	132647	1777.5	QPSK	25@0	-20.77	-0.01169	±2.5	PASS	TL/VL
66	5.0	132647	1777.5	16QAM	25@0	-34.96	-0.01967	±2.5	PASS	TL/VL
66	10.0	132022	1715.0	QPSK	50@0	-18.22	-0.01063	±2.5	PASS	TL/VL
66	10.0	132022	1715.0	16QAM	50@0	-46.62	-0.02718	±2.5	PASS	TL/VL
66	10.0	132322	1745.0	QPSK	50@0	0.32	0.00018	±2.5	PASS	TL/VL
66	10.0	132322	1745.0	16QAM	50@0	-36.81	-0.02109	±2.5	PASS	TL/VL
66	10.0	132622	1775.0	QPSK	50@0	-11.32	-0.00637	±2.5	PASS	TL/VL
66	10.0	132622	1775.0	16QAM	50@0	-22.32	-0.01257	±2.5	PASS	TL/VL
66	15.0	132047	1717.5	QPSK	75@0	-21.96	-0.01279	±2.5	PASS	TL/VL
66	15.0	132047	1717.5	16QAM	75@0	-36.35	-0.02116	±2.5	PASS	TL/VL
66	15.0	132322	1745.0	QPSK	75@0	-6.24	-0.00357	±2.5	PASS	TL/VL
66	15.0	132322	1745.0	16QAM	75@0	-41.47	-0.02377	±2.5	PASS	TL/VL
66	15.0	132597	1772.5	QPSK	75@0	-12.06	-0.0068	±2.5	PASS	TL/VL
66	15.0	132597	1772.5	16QAM	75@0	-24.5	-0.01382	±2.5	PASS	TL/VL
66	20.0	132072	1720.0	QPSK	100@0	-15.74	-0.00915	±2.5	PASS	TL/VL
66	20.0	132072	1720.0	16QAM	100@0	-34.32	-0.01995	±2.5	PASS	TL/VL
66	20.0	132322	1745.0	QPSK	100@0	-5.81	-0.00333	±2.5	PASS	TL/VL
66	20.0	132322	1745.0	16QAM	100@0	-36.29	-0.0208	±2.5	PASS	TL/VL
66	20.0	132572	1770.0	QPSK	100@0	-36.94	-0.02087	±2.5	PASS	TL/VL
66	20.0	132572	1770.0	16QAM	100@0	12.5	0.00706	±2.5	PASS	TL/VL

H7.Modulation Characteristics

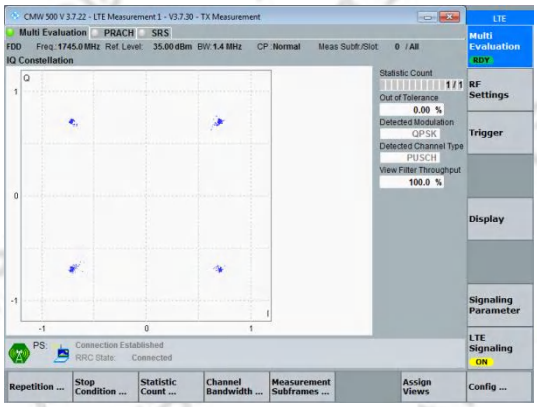
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Verdict
66	1.4	131979	1710.7	QPSK	6@0	PASS
66	1.4	131979	1710.7	16QAM	6@0	PASS
66	1.4	132322	1745.0	QPSK	6@0	PASS
66	1.4	132322	1745.0	16QAM	6@0	PASS
66	1.4	132665	1779.3	QPSK	6@0	PASS
66	1.4	132665	1779.3	16QAM	6@0	PASS
66	3.0	131987	1711.5	QPSK	15@0	PASS
66	3.0	131987	1711.5	16QAM	15@0	PASS
66	3.0	132322	1745.0	QPSK	15@0	PASS
66	3.0	132322	1745.0	16QAM	15@0	PASS
66	3.0	132657	1778.5	QPSK	15@0	PASS
66	3.0	132657	1778.5	16QAM	15@0	PASS
66	5.0	131997	1712.5	QPSK	25@0	PASS
66	5.0	131997	1712.5	16QAM	25@0	PASS
66	5.0	132322	1745.0	QPSK	25@0	PASS
66	5.0	132322	1745.0	16QAM	25@0	PASS
66	5.0	132647	1777.5	QPSK	25@0	PASS
66	5.0	132647	1777.5	16QAM	25@0	PASS
66	10.0	132022	1715.0	QPSK	50@0	PASS
66	10.0	132022	1715.0	16QAM	50@0	PASS
66	10.0	132322	1745.0	QPSK	50@0	PASS
66	10.0	132322	1745.0	16QAM	50@0	PASS
66	10.0	132622	1775.0	QPSK	50@0	PASS
66	10.0	132622	1775.0	16QAM	50@0	PASS
66	15.0	132047	1717.5	QPSK	75@0	PASS
66	15.0	132047	1717.5	16QAM	75@0	PASS
66	15.0	132322	1745.0	QPSK	75@0	PASS
66	15.0	132322	1745.0	16QAM	75@0	PASS
66	15.0	132597	1772.5	QPSK	75@0	PASS
66	15.0	132597	1772.5	16QAM	75@0	PASS
66	20.0	132072	1720.0	QPSK	100@0	PASS
66	20.0	132072	1720.0	16QAM	100@0	PASS
66	20.0	132322	1745.0	QPSK	100@0	PASS
66	20.0	132322	1745.0	16QAM	100@0	PASS
66	20.0	132572	1770.0	QPSK	100@0	PASS
66	20.0	132572	1770.0	16QAM	100@0	PASS



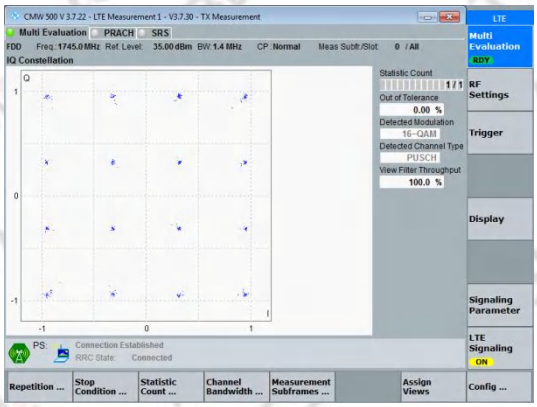
Band 66 1.4MHz/1710.7/Low QPSK 6@0



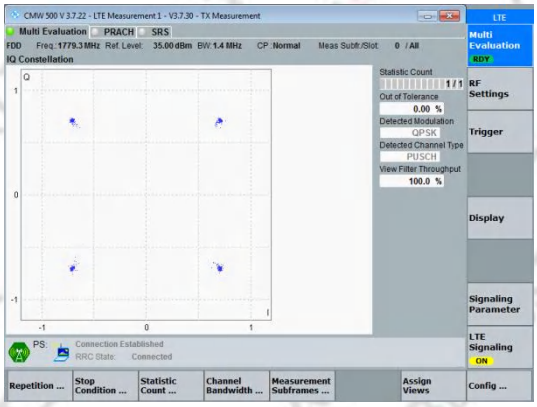
Band 66 1.4MHz/1710.7/Low 16QAM 6@0



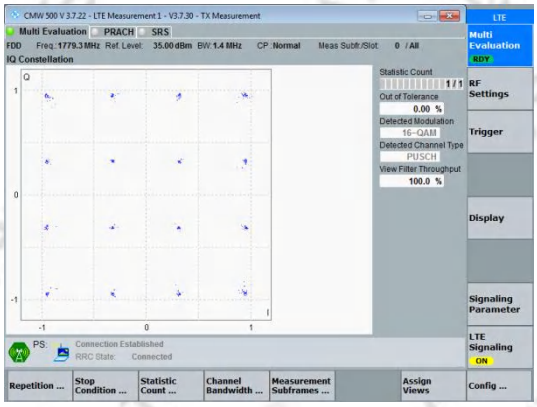
Band 66 1.4MHz/1745.0/Mid QPSK 6@0



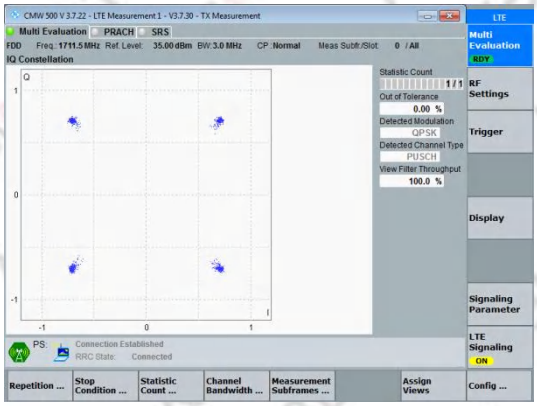
Band 66 1.4MHz/1745.0/Mid 16QAM 6@0



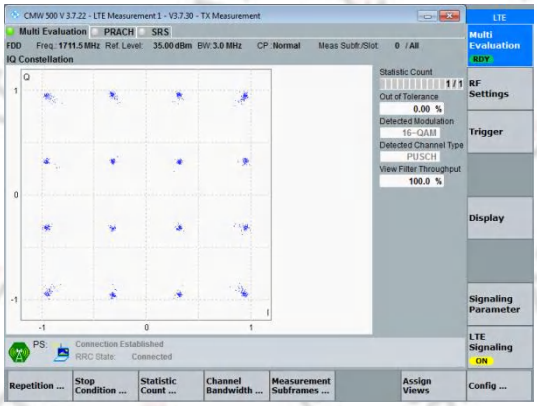
Band 66 1.4MHz/1779.3/High QPSK 6@0



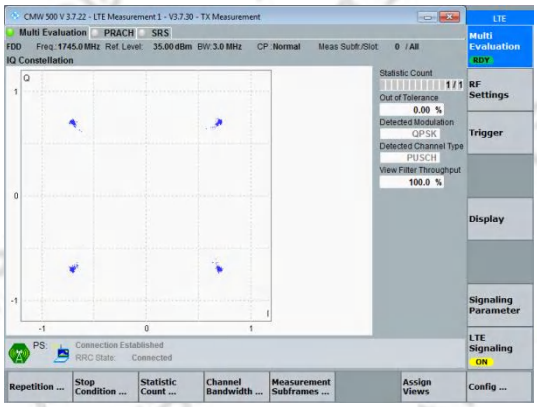
Band 66 1.4MHz/1779.3/High 16QAM 6@0



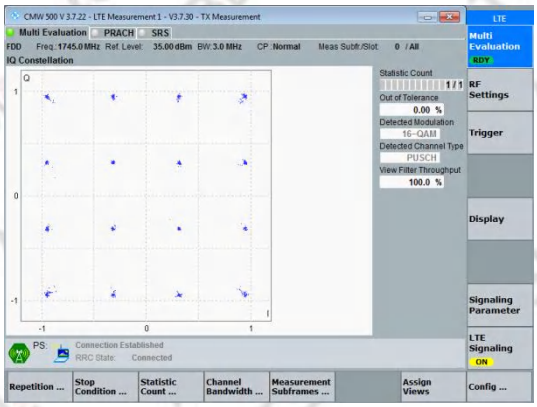
Band 66 3MHz/1711.5/Low QPSK 15@0



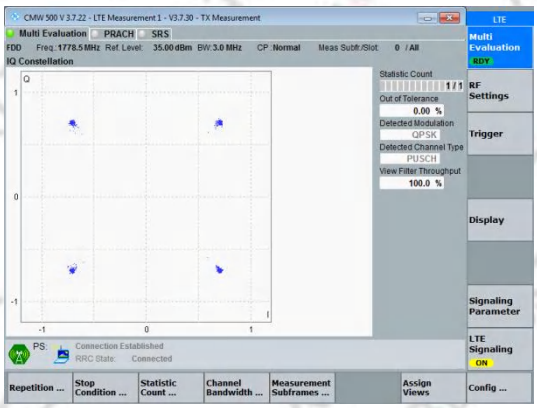
Band 66 3MHz/1711.5/Low 16QAM 15@0



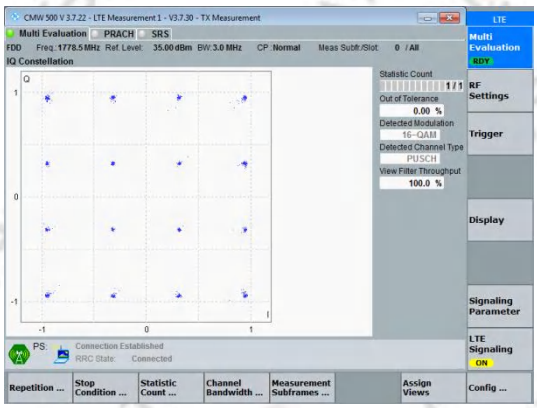
Band 66 3MHz/1745.0/Mid QPSK 15@0



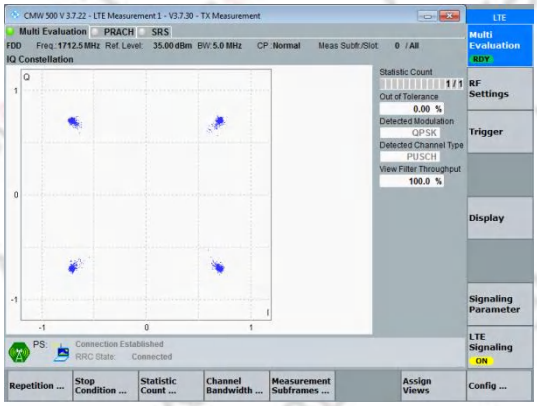
Band 66 3MHz/1745.0/Mid 16QAM 15@0



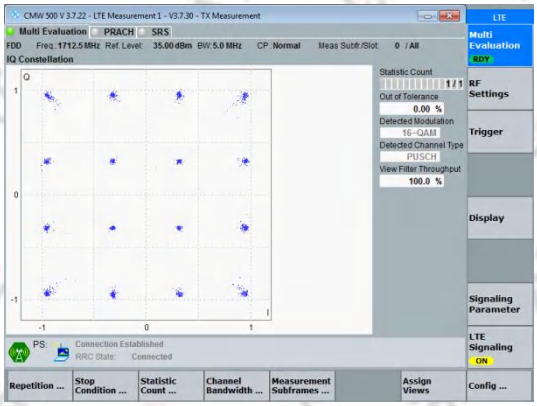
Band 66 3MHz/1778.5/High QPSK 15@0



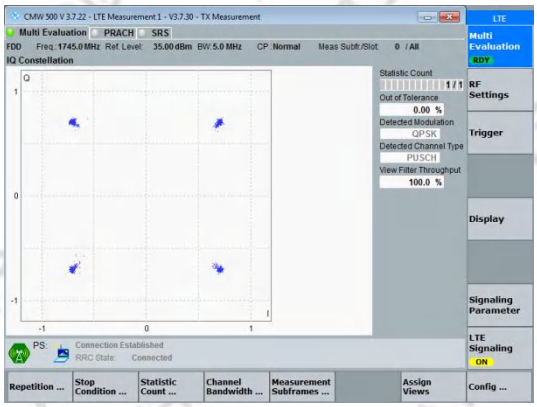
Band 66 3MHz/1778.5/High 16QAM 15@0



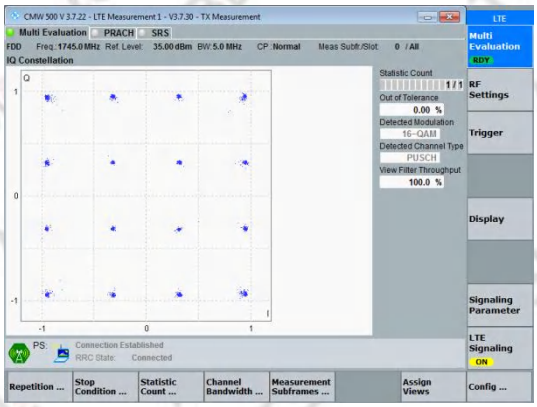
Band 66 5MHz/1712.5/Low QPSK 25@0



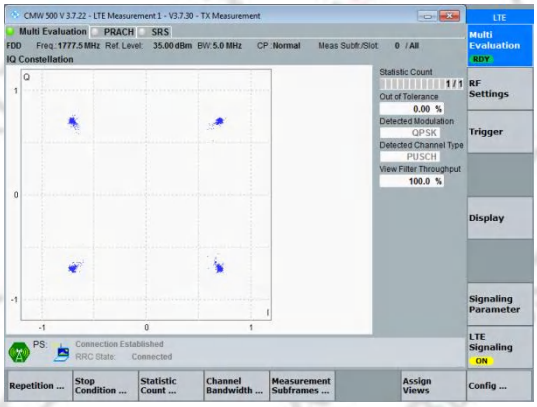
Band 66 5MHz/1712.5/Low 16QAM 25@0



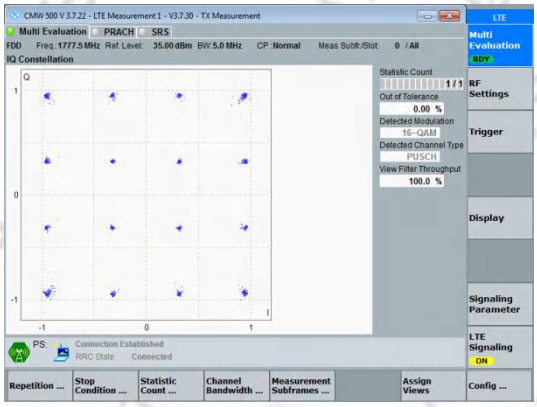
Band 66 5MHz/1745.0/Mid QPSK 25@0



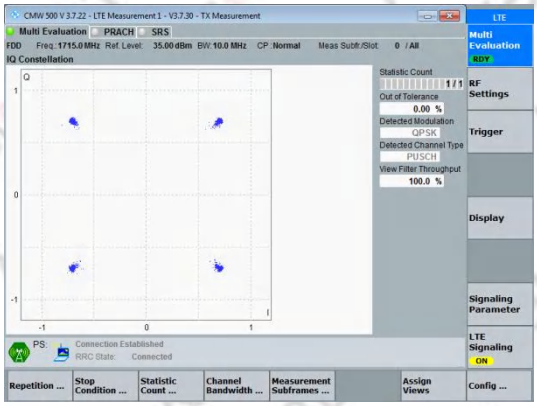
Band 66 5MHz/1745.0/Mid 16QAM 25@0



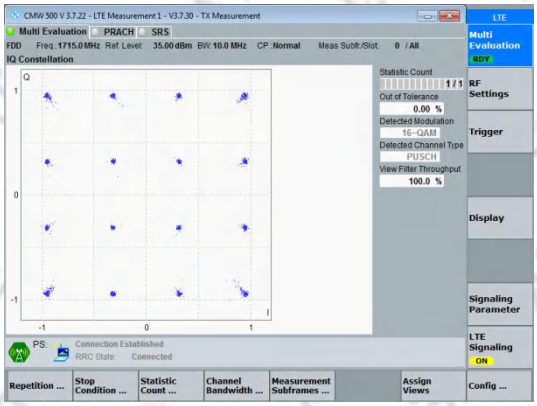
Band 66 5MHz/1777.5/High QPSK 25@0



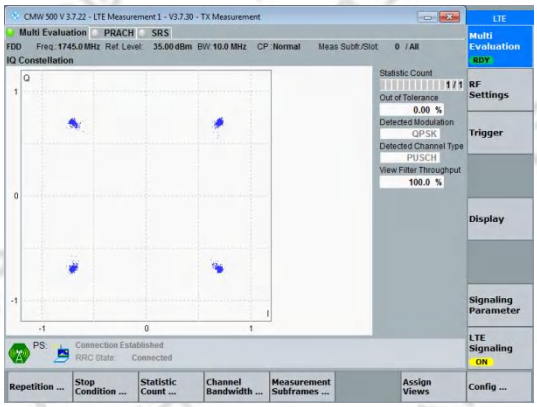
Band 66 5MHz/1777.5/High 16QAM 25@0



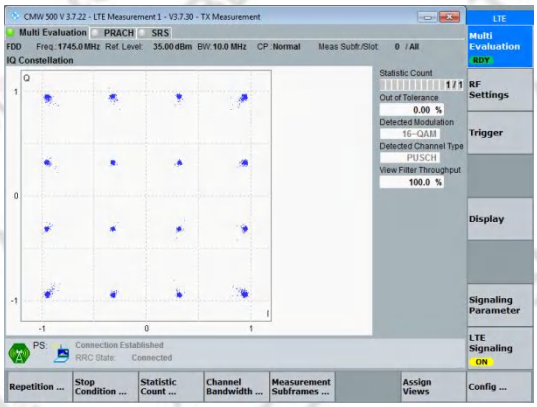
Band 66 10MHz/1715.0/Low QPSK 50@0



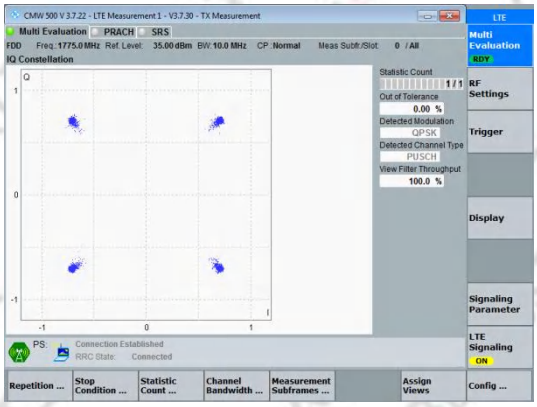
Band 66 10MHz/1715.0/Low 16QAM 50@0



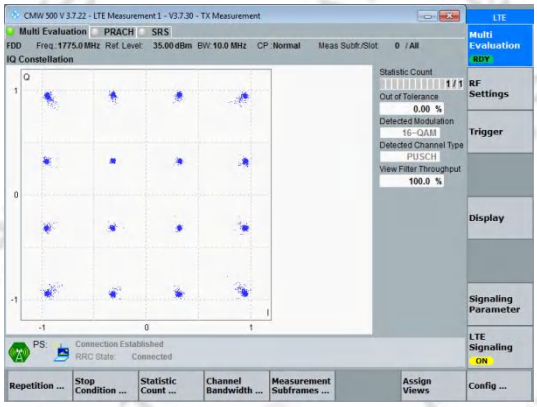
Band 66 10MHz/1745.0/Mid QPSK 50@0



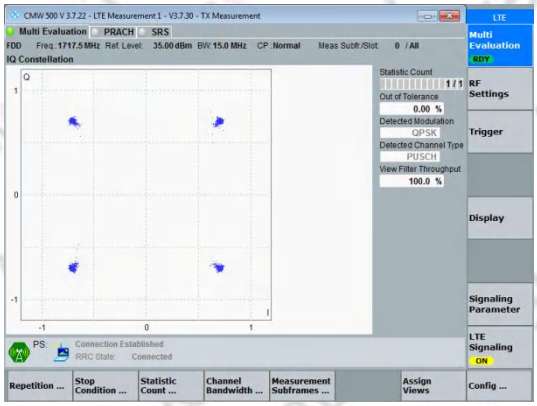
Band 66 10MHz/1745.0/Mid 16QAM 50@0



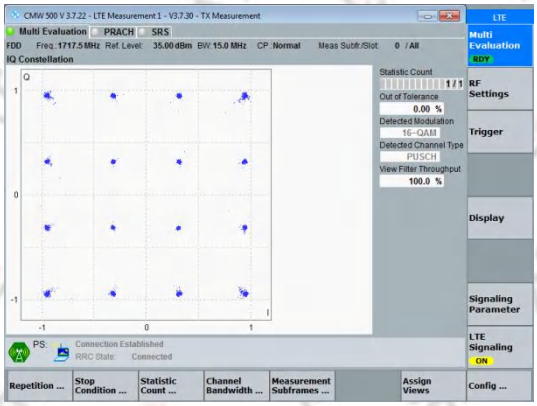
Band 66 10MHz/1775.0/High QPSK 50@0



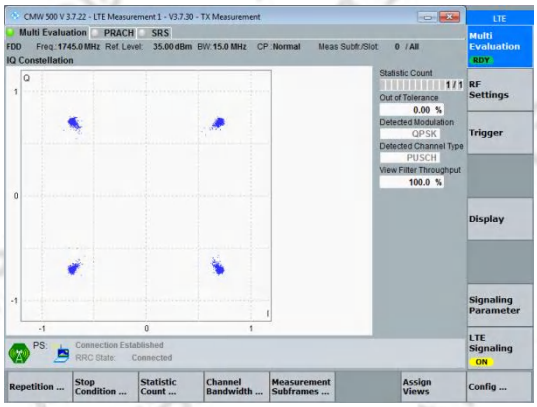
Band 66 10MHz/1775.0/High 16QAM 50@0



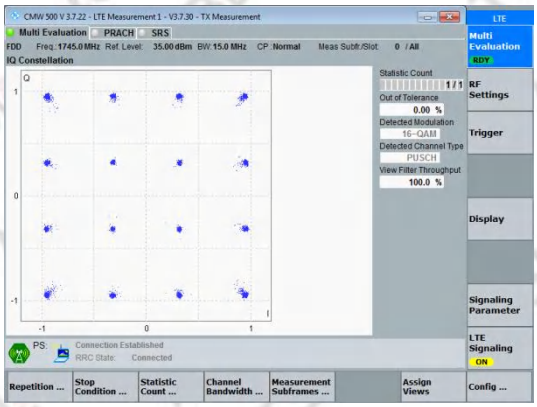
Band 66 15MHz/1717.5/Low QPSK 75@0



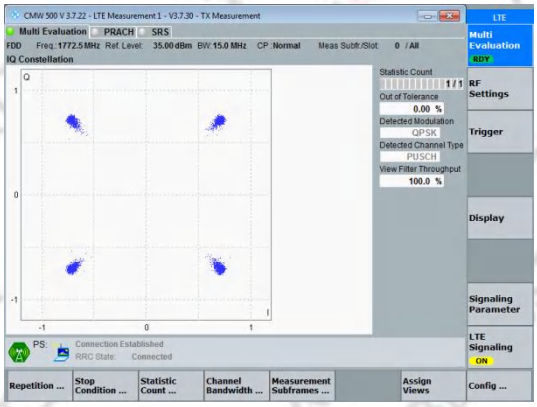
Band 66 15MHz/1717.5/Low 16QAM 75@0



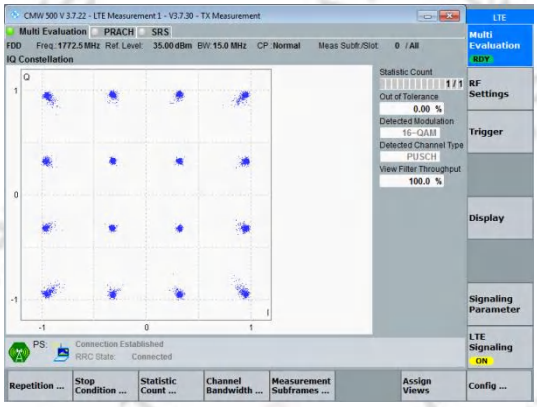
Band 66 15MHz/1745.0/Mid QPSK 75@0



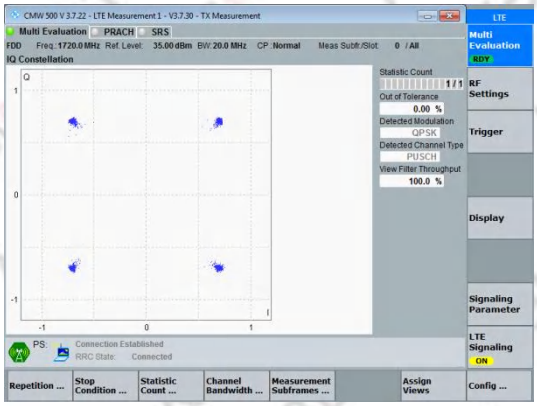
Band 66 15MHz/1745.0/Mid 16QAM 75@0



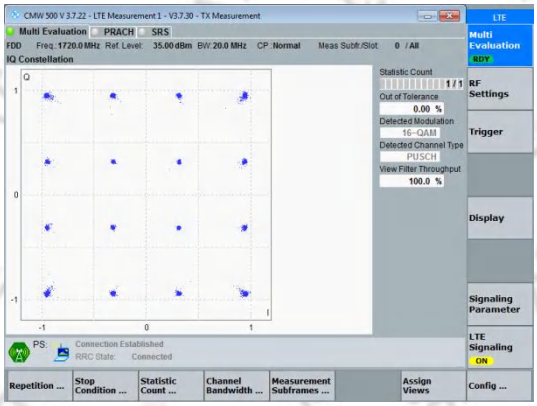
Band 66 15MHz/1772.5/High QPSK 75@0



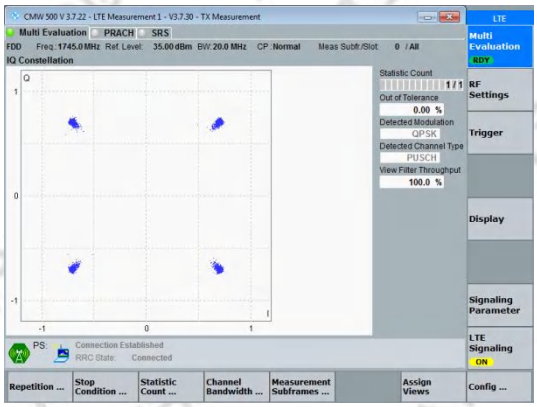
Band 66 15MHz/1772.5/High 16QAM 75@0



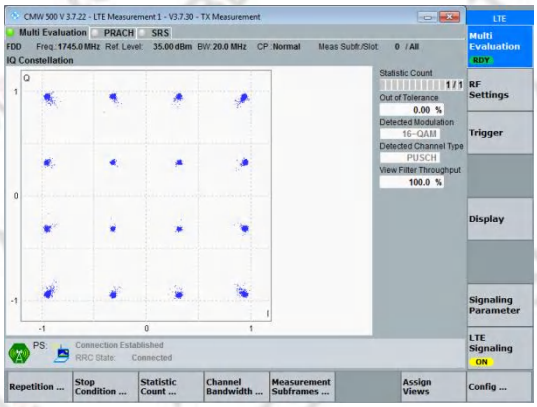
Band 66 20MHz/1720.0/Low QPSK 100@0



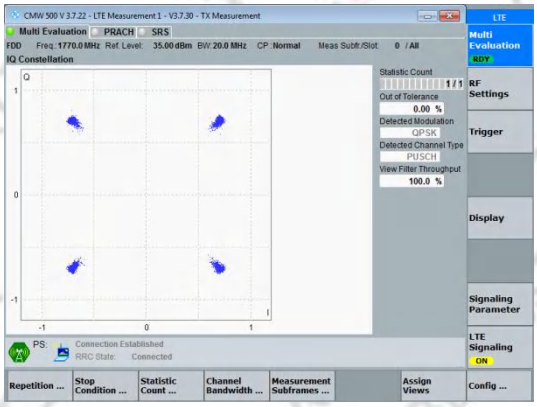
Band 66 20MHz/1720.0/Low 16QAM 100@0



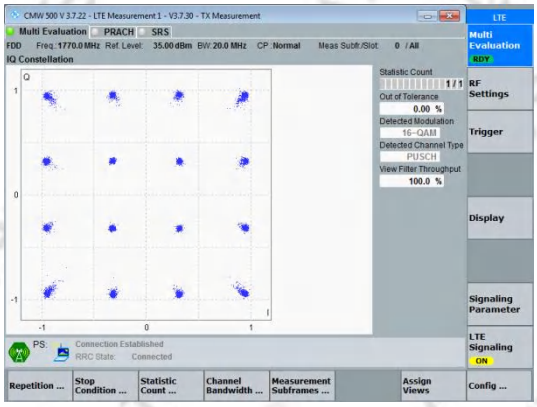
Band 66 20MHz/1745.0/Mid QPSK 100@0



Band 66 20MHz/1745.0/Mid 16QAM 100@0



Band 66 20MHz/1770.0/High QPSK 100@0



Band 66 20MHz/1770.0/High 16QAM 100@0