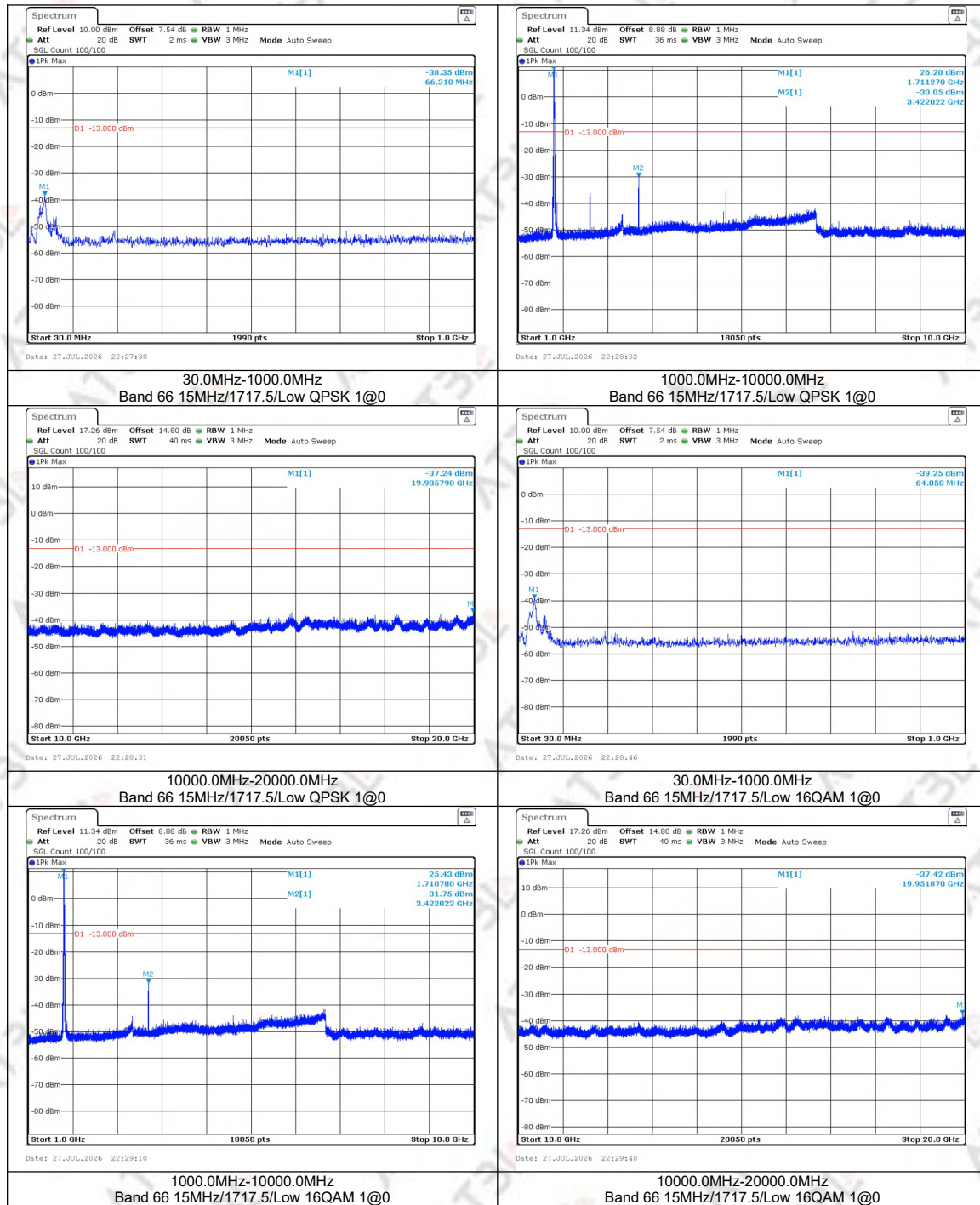
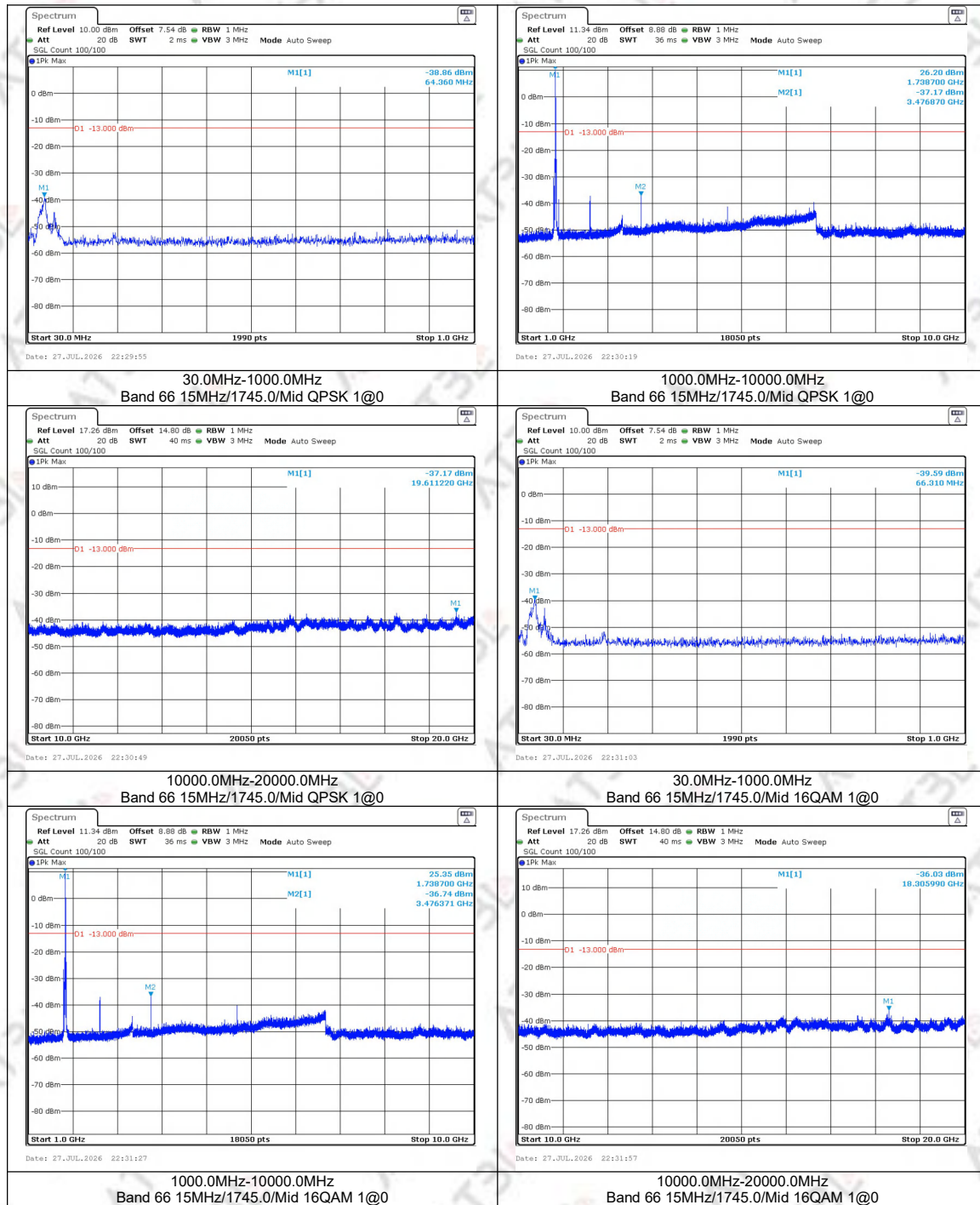
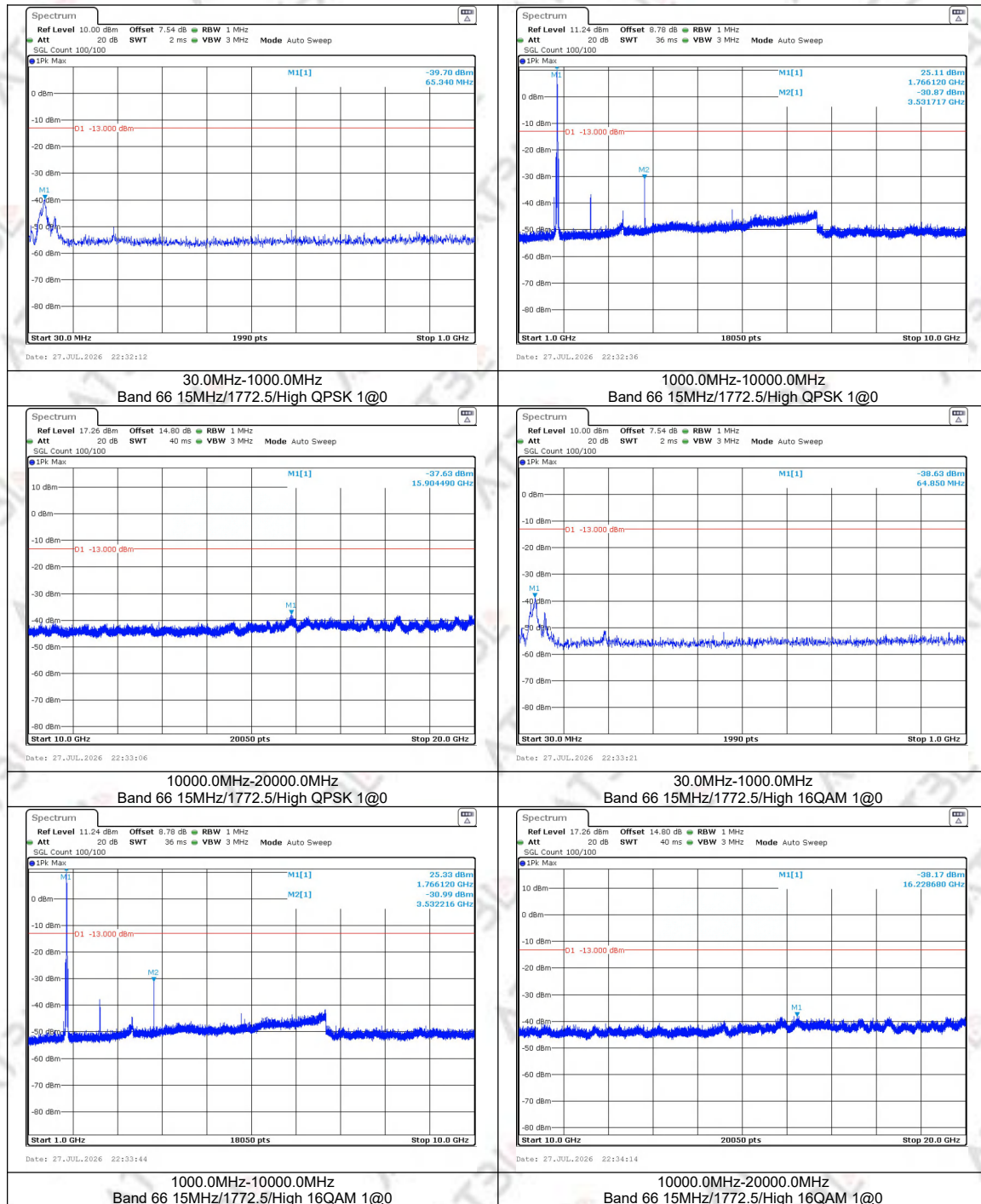
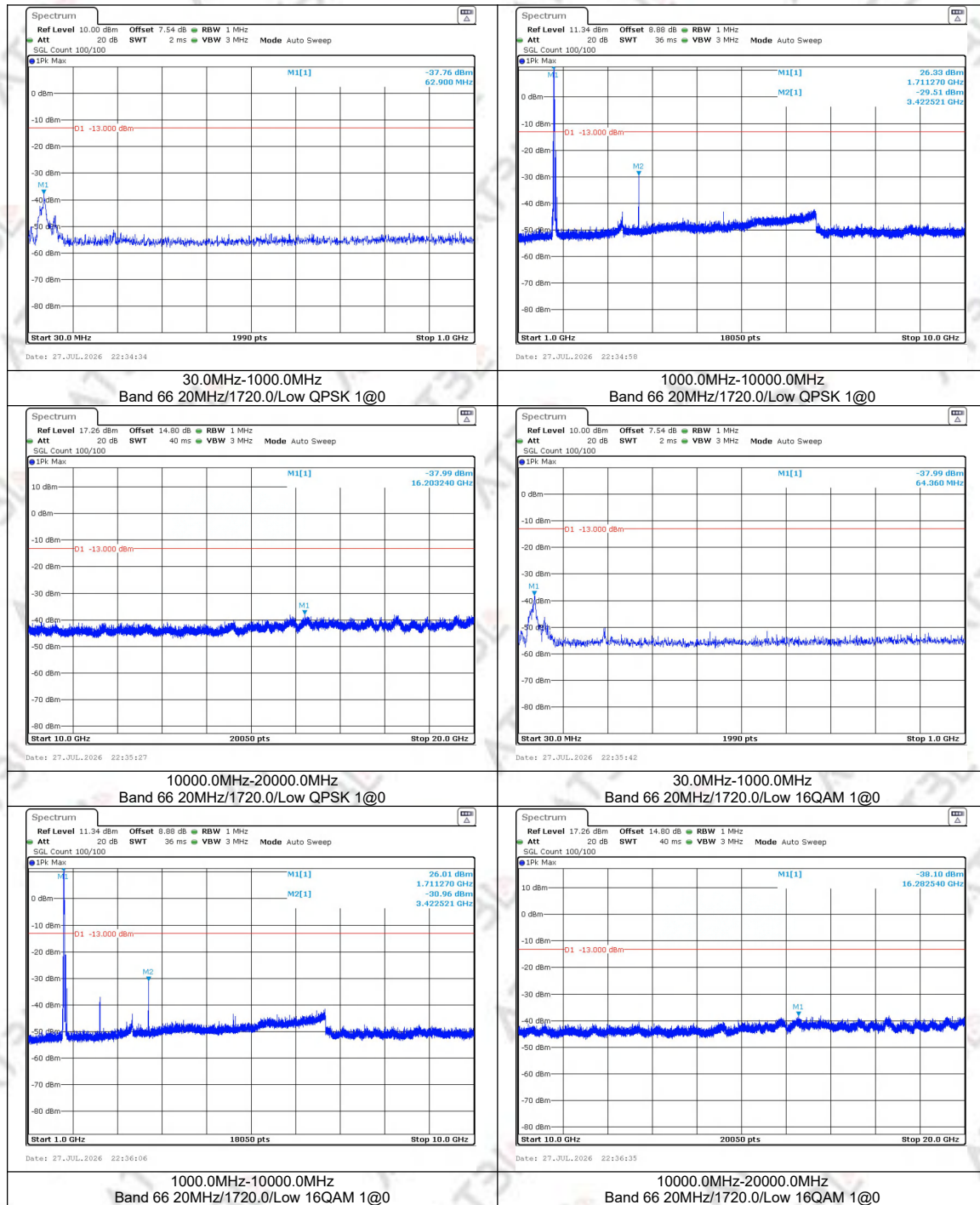
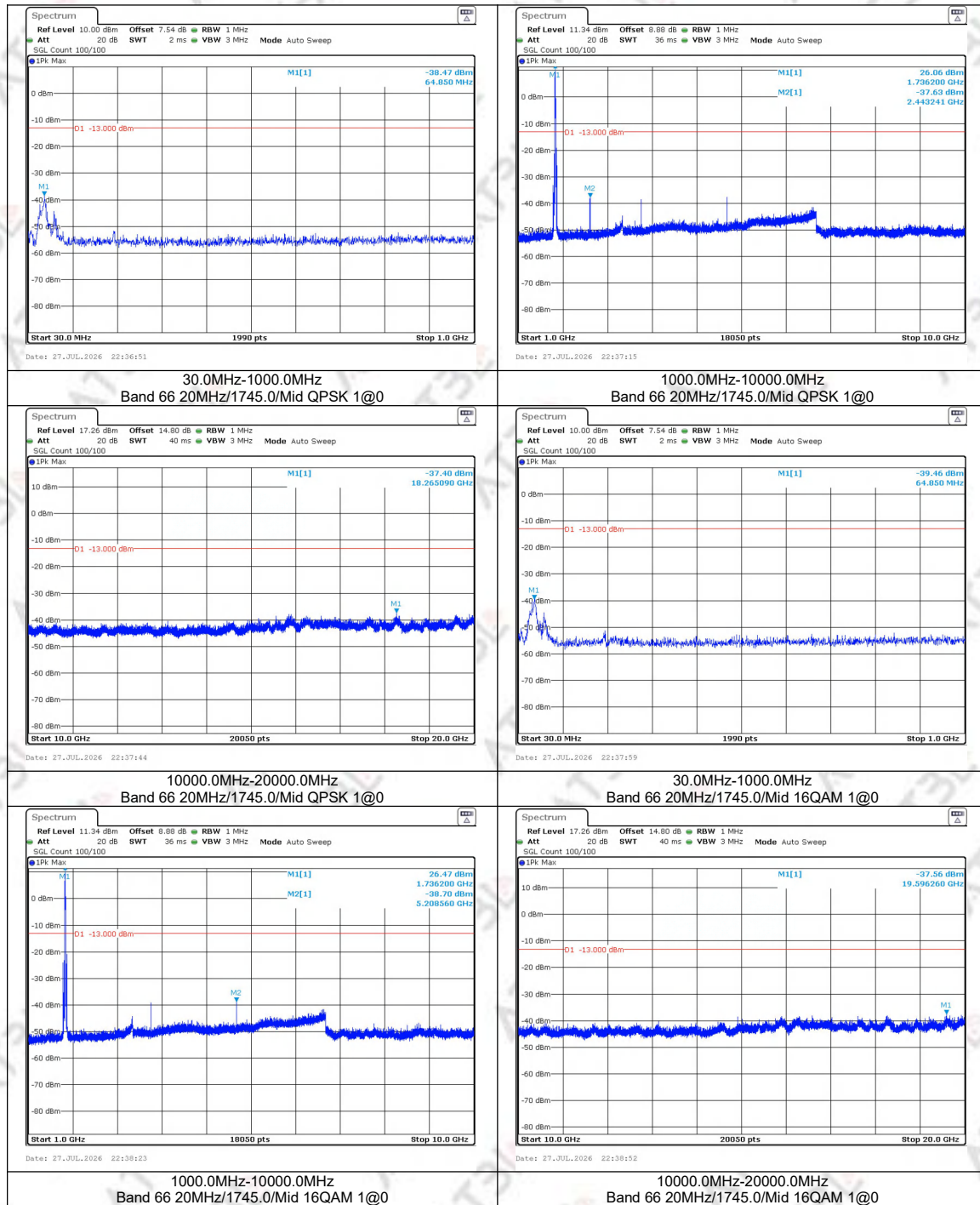


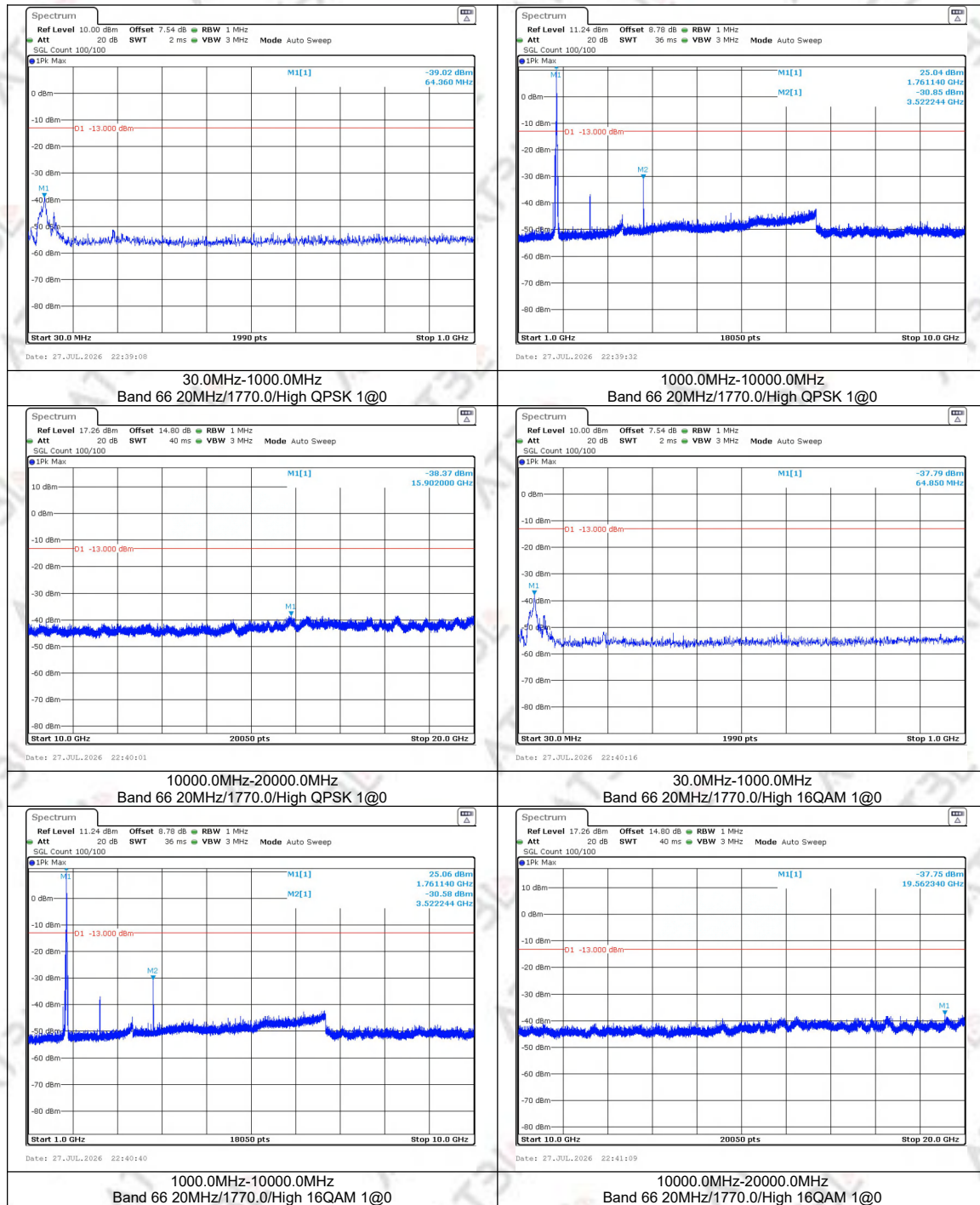












6.Frequency Stability-TN/VN

Test Result

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	4.03	0.00236	±2.5	PASS	TN/VN
66	1.4	131979	1710.7	16QAM	6@0	-32.01	-0.01871	±2.5	PASS	TN/VN
66	1.4	132322	1745.0	QPSK	6@0	-20.84	-0.01194	±2.5	PASS	TN/VN
66	1.4	132322	1745.0	16QAM	6@0	-33.67	-0.0193	±2.5	PASS	TN/VN
66	1.4	132665	1779.3	QPSK	6@0	15.01	0.00843	±2.5	PASS	TN/VN
66	1.4	132665	1779.3	16QAM	6@0	5.78	0.00325	±2.5	PASS	TN/VN
66	3.0	131987	1711.5	QPSK	15@0	-7.07	-0.00413	±2.5	PASS	TN/VN
66	3.0	131987	1711.5	16QAM	15@0	-36.06	-0.02107	±2.5	PASS	TN/VN
66	3.0	132322	1745.0	QPSK	15@0	-22.42	-0.01285	±2.5	PASS	TN/VN
66	3.0	132322	1745.0	16QAM	15@0	-35.73	-0.02048	±2.5	PASS	TN/VN
66	3.0	132657	1778.5	QPSK	15@0	-2.89	-0.00162	±2.5	PASS	TN/VN
66	3.0	132657	1778.5	16QAM	15@0	-9.73	-0.00547	±2.5	PASS	TN/VN
66	5.0	131997	1712.5	QPSK	25@0	6.92	0.00404	±2.5	PASS	TN/VN
66	5.0	131997	1712.5	16QAM	25@0	-21.8	-0.01273	±2.5	PASS	TN/VN
66	5.0	132322	1745.0	QPSK	25@0	-15.16	-0.00869	±2.5	PASS	TN/VN
66	5.0	132322	1745.0	16QAM	25@0	-23.93	-0.01371	±2.5	PASS	TN/VN
66	5.0	132647	1777.5	QPSK	25@0	-15.31	-0.00861	±2.5	PASS	TN/VN
66	5.0	132647	1777.5	16QAM	25@0	-24.56	-0.01382	±2.5	PASS	TN/VN
66	10.0	132022	1715.0	QPSK	50@0	-8.48	-0.00495	±2.5	PASS	TN/VN
66	10.0	132022	1715.0	16QAM	50@0	-30.04	-0.01752	±2.5	PASS	TN/VN
66	10.0	132322	1745.0	QPSK	50@0	-20.74	-0.01189	±2.5	PASS	TN/VN
66	10.0	132322	1745.0	16QAM	50@0	-29.54	-0.01693	±2.5	PASS	TN/VN
66	10.0	132622	1775.0	QPSK	50@0	-5.97	-0.00336	±2.5	PASS	TN/VN
66	10.0	132622	1775.0	16QAM	50@0	-14.03	-0.00791	±2.5	PASS	TN/VN
66	15.0	132047	1717.5	QPSK	75@0	1.8	0.00105	±2.5	PASS	TN/VN
66	15.0	132047	1717.5	16QAM	75@0	-24.03	-0.01399	±2.5	PASS	TN/VN
66	15.0	132322	1745.0	QPSK	75@0	-17.02	-0.00976	±2.5	PASS	TN/VN
66	15.0	132322	1745.0	16QAM	75@0	-24.81	-0.01421	±2.5	PASS	TN/VN
66	15.0	132597	1772.5	QPSK	75@0	-3.06	-0.00173	±2.5	PASS	TN/VN
66	15.0	132597	1772.5	16QAM	75@0	-12.52	-0.00706	±2.5	PASS	TN/VN
66	20.0	132072	1720.0	QPSK	100@0	4.88	0.00284	±2.5	PASS	TN/VN
66	20.0	132072	1720.0	16QAM	100@0	-20.69	-0.01203	±2.5	PASS	TN/VN
66	20.0	132322	1745.0	QPSK	100@0	-9.93	-0.00569	±2.5	PASS	TN/VN
66	20.0	132322	1745.0	16QAM	100@0	-19.9	-0.0114	±2.5	PASS	TN/VN
66	20.0	132572	1770.0	QPSK	100@0	-17.01	-0.00961	±2.5	PASS	TN/VN
66	20.0	132572	1770.0	16QAM	100@0	-23.37	-0.01321	±2.5	PASS	TN/VN

Frequency Stability-TL/VN

Test Result

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	-12.33	-0.00721	±2.5	PASS	TL/VN
66	1.4	131979	1710.7	16QAM	6@0	-18.31	-0.0107	±2.5	PASS	TL/VN
66	1.4	132322	1745.0	QPSK	6@0	-28.85	-0.01653	±2.5	PASS	TL/VN
66	1.4	132322	1745.0	16QAM	6@0	-47.89	-0.02745	±2.5	PASS	TL/VN
66	1.4	132665	1779.3	QPSK	6@0	-14.2	-0.00798	±2.5	PASS	TL/VN
66	1.4	132665	1779.3	16QAM	6@0	-31.14	-0.0175	±2.5	PASS	TL/VN
66	3.0	131987	1711.5	QPSK	15@0	20.21	0.01181	±2.5	PASS	TL/VN
66	3.0	131987	1711.5	16QAM	15@0	-26.75	-0.01563	±2.5	PASS	TL/VN
66	3.0	132322	1745.0	QPSK	15@0	-39.04	-0.02237	±2.5	PASS	TL/VN
66	3.0	132322	1745.0	16QAM	15@0	-19.74	-0.01131	±2.5	PASS	TL/VN
66	3.0	132657	1778.5	QPSK	15@0	-12.69	-0.00713	±2.5	PASS	TL/VN
66	3.0	132657	1778.5	16QAM	15@0	-27.47	-0.01544	±2.5	PASS	TL/VN
66	5.0	131997	1712.5	QPSK	25@0	29.91	0.01747	±2.5	PASS	TL/VN
66	5.0	131997	1712.5	16QAM	25@0	-20.93	-0.01222	±2.5	PASS	TL/VN
66	5.0	132322	1745.0	QPSK	25@0	-42.01	-0.02408	±2.5	PASS	TL/VN
66	5.0	132322	1745.0	16QAM	25@0	-49.85	-0.02857	±2.5	PASS	TL/VN
66	5.0	132647	1777.5	QPSK	25@0	-27.71	-0.01559	±2.5	PASS	TL/VN
66	5.0	132647	1777.5	16QAM	25@0	7.55	0.00425	±2.5	PASS	TL/VN
66	10.0	132022	1715.0	QPSK	50@0	-47.05	-0.02743	±2.5	PASS	TL/VN
66	10.0	132022	1715.0	16QAM	50@0	-25.58	-0.01491	±2.5	PASS	TL/VN
66	10.0	132322	1745.0	QPSK	50@0	-33.23	-0.01904	±2.5	PASS	TL/VN
66	10.0	132322	1745.0	16QAM	50@0	-18.81	-0.01078	±2.5	PASS	TL/VN
66	10.0	132622	1775.0	QPSK	50@0	-29.28	-0.0165	±2.5	PASS	TL/VN
66	10.0	132622	1775.0	16QAM	50@0	-34.4	-0.01938	±2.5	PASS	TL/VN
66	15.0	132047	1717.5	QPSK	75@0	-23.17	-0.01349	±2.5	PASS	TL/VN
66	15.0	132047	1717.5	16QAM	75@0	-10.99	-0.0064	±2.5	PASS	TL/VN
66	15.0	132322	1745.0	QPSK	75@0	-39.17	-0.02245	±2.5	PASS	TL/VN
66	15.0	132322	1745.0	16QAM	75@0	-26.84	-0.01538	±2.5	PASS	TL/VN
66	15.0	132597	1772.5	QPSK	75@0	-6.11	-0.00345	±2.5	PASS	TL/VN
66	15.0	132597	1772.5	16QAM	75@0	-36.61	-0.02065	±2.5	PASS	TL/VN
66	20.0	132072	1720.0	QPSK	100@0	-19.13	-0.01112	±2.5	PASS	TL/VN
66	20.0	132072	1720.0	16QAM	100@0	-8.04	-0.00467	±2.5	PASS	TL/VN
66	20.0	132322	1745.0	QPSK	100@0	-24.1	-0.01381	±2.5	PASS	TL/VN
66	20.0	132322	1745.0	16QAM	100@0	-28.57	-0.01637	±2.5	PASS	TL/VN
66	20.0	132572	1770.0	QPSK	100@0	-34.55	-0.01952	±2.5	PASS	TL/VN
66	20.0	132572	1770.0	16QAM	100@0	4.16	0.00235	±2.5	PASS	TL/VN

Frequency Stability-TH/VH

Test Result

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	4.63	0.00271	±2.5	PASS	TH/VH
66	1.4	131979	1710.7	16QAM	6@0	-23.15	-0.01353	±2.5	PASS	TH/VH
66	1.4	132322	1745.0	QPSK	6@0	-18.83	-0.01079	±2.5	PASS	TH/VH
66	1.4	132322	1745.0	16QAM	6@0	-33.76	-0.01935	±2.5	PASS	TH/VH
66	1.4	132665	1779.3	QPSK	6@0	-4.46	-0.00251	±2.5	PASS	TH/VH
66	1.4	132665	1779.3	16QAM	6@0	-17.4	-0.00978	±2.5	PASS	TH/VH
66	3.0	131987	1711.5	QPSK	15@0	12.76	0.00746	±2.5	PASS	TH/VH
66	3.0	131987	1711.5	16QAM	15@0	-38.64	-0.02258	±2.5	PASS	TH/VH
66	3.0	132322	1745.0	QPSK	15@0	-14.29	-0.00819	±2.5	PASS	TH/VH
66	3.0	132322	1745.0	16QAM	15@0	-12.35	-0.00707	±2.5	PASS	TH/VH
66	3.0	132657	1778.5	QPSK	15@0	-16.64	-0.00935	±2.5	PASS	TH/VH
66	3.0	132657	1778.5	16QAM	15@0	9.23	0.00519	±2.5	PASS	TH/VH
66	5.0	131997	1712.5	QPSK	25@0	16.41	0.00958	±2.5	PASS	TH/VH
66	5.0	131997	1712.5	16QAM	25@0	-35.73	-0.02087	±2.5	PASS	TH/VH
66	5.0	132322	1745.0	QPSK	25@0	-35.68	-0.02045	±2.5	PASS	TH/VH
66	5.0	132322	1745.0	16QAM	25@0	-2.8	-0.00161	±2.5	PASS	TH/VH
66	5.0	132647	1777.5	QPSK	25@0	-10.91	-0.00614	±2.5	PASS	TH/VH
66	5.0	132647	1777.5	16QAM	25@0	-34.29	-0.01929	±2.5	PASS	TH/VH
66	10.0	132022	1715.0	QPSK	50@0	8.51	0.00496	±2.5	PASS	TH/VH
66	10.0	132022	1715.0	16QAM	50@0	-17.25	-0.01006	±2.5	PASS	TH/VH
66	10.0	132322	1745.0	QPSK	50@0	-14.72	-0.00844	±2.5	PASS	TH/VH
66	10.0	132322	1745.0	16QAM	50@0	-13.42	-0.00769	±2.5	PASS	TH/VH
66	10.0	132622	1775.0	QPSK	50@0	-21.4	-0.01206	±2.5	PASS	TH/VH
66	10.0	132622	1775.0	16QAM	50@0	-15.16	-0.00854	±2.5	PASS	TH/VH
66	15.0	132047	1717.5	QPSK	75@0	9.66	0.00562	±2.5	PASS	TH/VH
66	15.0	132047	1717.5	16QAM	75@0	-6.44	-0.00375	±2.5	PASS	TH/VH
66	15.0	132322	1745.0	QPSK	75@0	-16.99	-0.00974	±2.5	PASS	TH/VH
66	15.0	132322	1745.0	16QAM	75@0	-14.42	-0.00826	±2.5	PASS	TH/VH
66	15.0	132597	1772.5	QPSK	75@0	-18.51	-0.01044	±2.5	PASS	TH/VH
66	15.0	132597	1772.5	16QAM	75@0	-16.29	-0.00919	±2.5	PASS	TH/VH
66	20.0	132072	1720.0	QPSK	100@0	4.86	0.00283	±2.5	PASS	TH/VH
66	20.0	132072	1720.0	16QAM	100@0	-17.52	-0.01019	±2.5	PASS	TH/VH
66	20.0	132322	1745.0	QPSK	100@0	-28.27	-0.0162	±2.5	PASS	TH/VH
66	20.0	132322	1745.0	16QAM	100@0	-25.72	-0.01474	±2.5	PASS	TH/VH
66	20.0	132572	1770.0	QPSK	100@0	-12.57	-0.0071	±2.5	PASS	TH/VH
66	20.0	132572	1770.0	16QAM	100@0	-31.07	-0.01755	±2.5	PASS	TH/VH

Frequency Stability-TH/VL

Test Result

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	-5.05	-0.00295	±2.5	PASS	TH/VL
66	1.4	131979	1710.7	16QAM	6@0	-16.77	-0.0098	±2.5	PASS	TH/VL
66	1.4	132322	1745.0	QPSK	6@0	-16.04	-0.00919	±2.5	PASS	TH/VL
66	1.4	132322	1745.0	16QAM	6@0	-30.86	-0.01768	±2.5	PASS	TH/VL
66	1.4	132665	1779.3	QPSK	6@0	5.32	0.00299	±2.5	PASS	TH/VL
66	1.4	132665	1779.3	16QAM	6@0	-14.49	-0.00814	±2.5	PASS	TH/VL
66	3.0	131987	1711.5	QPSK	15@0	25.98	0.01518	±2.5	PASS	TH/VL
66	3.0	131987	1711.5	16QAM	15@0	-38.18	-0.02231	±2.5	PASS	TH/VL
66	3.0	132322	1745.0	QPSK	15@0	-16.99	-0.00974	±2.5	PASS	TH/VL
66	3.0	132322	1745.0	16QAM	15@0	-40.77	-0.02336	±2.5	PASS	TH/VL
66	3.0	132657	1778.5	QPSK	15@0	-5.97	-0.00335	±2.5	PASS	TH/VL
66	3.0	132657	1778.5	16QAM	15@0	-19.66	-0.01105	±2.5	PASS	TH/VL
66	5.0	131997	1712.5	QPSK	25@0	17.19	0.01004	±2.5	PASS	TH/VL
66	5.0	131997	1712.5	16QAM	25@0	-28.82	-0.01683	±2.5	PASS	TH/VL
66	5.0	132322	1745.0	QPSK	25@0	-22.52	-0.0129	±2.5	PASS	TH/VL
66	5.0	132322	1745.0	16QAM	25@0	-9.57	-0.00548	±2.5	PASS	TH/VL
66	5.0	132647	1777.5	QPSK	25@0	-5.16	-0.00291	±2.5	PASS	TH/VL
66	5.0	132647	1777.5	16QAM	25@0	-23.19	-0.01305	±2.5	PASS	TH/VL
66	10.0	132022	1715.0	QPSK	50@0	4.56	0.00266	±2.5	PASS	TH/VL
66	10.0	132022	1715.0	16QAM	50@0	-22.3	-0.013	±2.5	PASS	TH/VL
66	10.0	132322	1745.0	QPSK	50@0	-32.82	-0.01881	±2.5	PASS	TH/VL
66	10.0	132322	1745.0	16QAM	50@0	-4.65	-0.00266	±2.5	PASS	TH/VL
66	10.0	132622	1775.0	QPSK	50@0	-12.93	-0.00729	±2.5	PASS	TH/VL
66	10.0	132622	1775.0	16QAM	50@0	-25.59	-0.01442	±2.5	PASS	TH/VL
66	15.0	132047	1717.5	QPSK	75@0	0.51	0.0003	±2.5	PASS	TH/VL
66	15.0	132047	1717.5	16QAM	75@0	-18.93	-0.01102	±2.5	PASS	TH/VL
66	15.0	132322	1745.0	QPSK	75@0	8.15	0.00467	±2.5	PASS	TH/VL
66	15.0	132322	1745.0	16QAM	75@0	-20.53	-0.01176	±2.5	PASS	TH/VL
66	15.0	132597	1772.5	QPSK	75@0	-11.19	-0.00631	±2.5	PASS	TH/VL
66	15.0	132597	1772.5	16QAM	75@0	-26.29	-0.01483	±2.5	PASS	TH/VL
66	20.0	132072	1720.0	QPSK	100@0	22.26	0.01294	±2.5	PASS	TH/VL
66	20.0	132072	1720.0	16QAM	100@0	-30.14	-0.01752	±2.5	PASS	TH/VL
66	20.0	132322	1745.0	QPSK	100@0	-22.79	-0.01306	±2.5	PASS	TH/VL
66	20.0	132322	1745.0	16QAM	100@0	-21.19	-0.01214	±2.5	PASS	TH/VL
66	20.0	132572	1770.0	QPSK	100@0	-2.5	-0.00141	±2.5	PASS	TH/VL
66	20.0	132572	1770.0	16QAM	100@0	-14.19	-0.00802	±2.5	PASS	TH/VL

Frequency Stability-TH/VH

Test Result

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	-3.02	-0.00176	±2.5	PASS	TH/VN
66	1.4	131979	1710.7	16QAM	6@0	-33.12	-0.01936	±2.5	PASS	TH/VN
66	1.4	132322	1745.0	QPSK	6@0	-12.82	-0.00735	±2.5	PASS	TH/VN
66	1.4	132322	1745.0	16QAM	6@0	-20.2	-0.01158	±2.5	PASS	TH/VN
66	1.4	132665	1779.3	QPSK	6@0	0.97	0.00055	±2.5	PASS	TH/VN
66	1.4	132665	1779.3	16QAM	6@0	-7.95	-0.00447	±2.5	PASS	TH/VN
66	3.0	131987	1711.5	QPSK	15@0	29.55	0.01727	±2.5	PASS	TH/VN
66	3.0	131987	1711.5	16QAM	15@0	-31.31	-0.0183	±2.5	PASS	TH/VN
66	3.0	132322	1745.0	QPSK	15@0	-41.53	-0.0238	±2.5	PASS	TH/VN
66	3.0	132322	1745.0	16QAM	15@0	-9.16	-0.00525	±2.5	PASS	TH/VN
66	3.0	132657	1778.5	QPSK	15@0	-14.36	-0.00808	±2.5	PASS	TH/VN
66	3.0	132657	1778.5	16QAM	15@0	-7.91	-0.00445	±2.5	PASS	TH/VN
66	5.0	131997	1712.5	QPSK	25@0	37.99	0.02219	±2.5	PASS	TH/VN
66	5.0	131997	1712.5	16QAM	25@0	-20.01	-0.01169	±2.5	PASS	TH/VN
66	5.0	132322	1745.0	QPSK	25@0	-32.96	-0.01889	±2.5	PASS	TH/VN
66	5.0	132322	1745.0	16QAM	25@0	-9.8	-0.00562	±2.5	PASS	TH/VN
66	5.0	132647	1777.5	QPSK	25@0	-12.35	-0.00695	±2.5	PASS	TH/VN
66	5.0	132647	1777.5	16QAM	25@0	-30.43	-0.01712	±2.5	PASS	TH/VN
66	10.0	132022	1715.0	QPSK	50@0	28.28	0.01649	±2.5	PASS	TH/VN
66	10.0	132022	1715.0	16QAM	50@0	-30.4	-0.01772	±2.5	PASS	TH/VN
66	10.0	132322	1745.0	QPSK	50@0	-20.56	-0.01178	±2.5	PASS	TH/VN
66	10.0	132322	1745.0	16QAM	50@0	-15.68	-0.00898	±2.5	PASS	TH/VN
66	10.0	132622	1775.0	QPSK	50@0	-18.38	-0.01036	±2.5	PASS	TH/VN
66	10.0	132622	1775.0	16QAM	50@0	-13.45	-0.00758	±2.5	PASS	TH/VN
66	15.0	132047	1717.5	QPSK	75@0	27.45	0.01598	±2.5	PASS	TH/VN
66	15.0	132047	1717.5	16QAM	75@0	-30.41	-0.01771	±2.5	PASS	TH/VN
66	15.0	132322	1745.0	QPSK	75@0	-31.9	-0.01828	±2.5	PASS	TH/VN
66	15.0	132322	1745.0	16QAM	75@0	-20.36	-0.01167	±2.5	PASS	TH/VN
66	15.0	132597	1772.5	QPSK	75@0	-12.92	-0.00729	±2.5	PASS	TH/VN
66	15.0	132597	1772.5	16QAM	75@0	-25.19	-0.01421	±2.5	PASS	TH/VN
66	20.0	132072	1720.0	QPSK	100@0	29.81	0.01733	±2.5	PASS	TH/VN
66	20.0	132072	1720.0	16QAM	100@0	-22.79	-0.01325	±2.5	PASS	TH/VN
66	20.0	132322	1745.0	QPSK	100@0	-11.46	-0.00657	±2.5	PASS	TH/VN
66	20.0	132322	1745.0	16QAM	100@0	-19.47	-0.01116	±2.5	PASS	TH/VN
66	20.0	132572	1770.0	QPSK	100@0	-15.29	-0.00864	±2.5	PASS	TH/VN
66	20.0	132572	1770.0	16QAM	100@0	-5.82	-0.00329	±2.5	PASS	TH/VN

Frequency Stability-TL/VH

Test Result

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	6.92	0.00405	±2.5	PASS	TL/VH
66	1.4	131979	1710.7	16QAM	6@0	-31.41	-0.01836	±2.5	PASS	TL/VH
66	1.4	132322	1745.0	QPSK	6@0	-19.73	-0.0113	±2.5	PASS	TL/VH
66	1.4	132322	1745.0	16QAM	6@0	-29.43	-0.01686	±2.5	PASS	TL/VH
66	1.4	132665	1779.3	QPSK	6@0	5.15	0.00289	±2.5	PASS	TL/VH
66	1.4	132665	1779.3	16QAM	6@0	-5.74	-0.00322	±2.5	PASS	TL/VH
66	3.0	131987	1711.5	QPSK	15@0	33.23	0.01942	±2.5	PASS	TL/VH
66	3.0	131987	1711.5	16QAM	15@0	-8.97	-0.00524	±2.5	PASS	TL/VH
66	3.0	132322	1745.0	QPSK	15@0	-26.42	-0.01514	±2.5	PASS	TL/VH
66	3.0	132322	1745.0	16QAM	15@0	-17.6	-0.01008	±2.5	PASS	TL/VH
66	3.0	132657	1778.5	QPSK	15@0	-7.14	-0.00401	±2.5	PASS	TL/VH
66	3.0	132657	1778.5	16QAM	15@0	-19.25	-0.01083	±2.5	PASS	TL/VH
66	5.0	131997	1712.5	QPSK	25@0	25.35	0.0148	±2.5	PASS	TL/VH
66	5.0	131997	1712.5	16QAM	25@0	-10.64	-0.00621	±2.5	PASS	TL/VH
66	5.0	132322	1745.0	QPSK	25@0	-21.23	-0.01217	±2.5	PASS	TL/VH
66	5.0	132322	1745.0	16QAM	25@0	6.68	0.00383	±2.5	PASS	TL/VH
66	5.0	132647	1777.5	QPSK	25@0	-25.09	-0.01412	±2.5	PASS	TL/VH
66	5.0	132647	1777.5	16QAM	25@0	-34.05	-0.01915	±2.5	PASS	TL/VH
66	10.0	132022	1715.0	QPSK	50@0	-25.22	-0.01471	±2.5	PASS	TL/VH
66	10.0	132022	1715.0	16QAM	50@0	-15.13	-0.00882	±2.5	PASS	TL/VH
66	10.0	132322	1745.0	QPSK	50@0	-20.17	-0.01156	±2.5	PASS	TL/VH
66	10.0	132322	1745.0	16QAM	50@0	-29.61	-0.01697	±2.5	PASS	TL/VH
66	10.0	132622	1775.0	QPSK	50@0	-19.33	-0.01089	±2.5	PASS	TL/VH
66	10.0	132622	1775.0	16QAM	50@0	-11.4	-0.00642	±2.5	PASS	TL/VH
66	15.0	132047	1717.5	QPSK	75@0	-8.28	-0.00482	±2.5	PASS	TL/VH
66	15.0	132047	1717.5	16QAM	75@0	-3.89	-0.00227	±2.5	PASS	TL/VH
66	15.0	132322	1745.0	QPSK	75@0	-8.54	-0.00489	±2.5	PASS	TL/VH
66	15.0	132322	1745.0	16QAM	75@0	-28.17	-0.01614	±2.5	PASS	TL/VH
66	15.0	132597	1772.5	QPSK	75@0	-15.21	-0.00858	±2.5	PASS	TL/VH
66	15.0	132597	1772.5	16QAM	75@0	-8.91	-0.00503	±2.5	PASS	TL/VH
66	20.0	132072	1720.0	QPSK	100@0	36.18	0.02103	±2.5	PASS	TL/VH
66	20.0	132072	1720.0	16QAM	100@0	-5.11	-0.00297	±2.5	PASS	TL/VH
66	20.0	132322	1745.0	QPSK	100@0	2.03	0.00116	±2.5	PASS	TL/VH
66	20.0	132322	1745.0	16QAM	100@0	-5.81	-0.00333	±2.5	PASS	TL/VH
66	20.0	132572	1770.0	QPSK	100@0	-10.43	-0.00589	±2.5	PASS	TL/VH
66	20.0	132572	1770.0	16QAM	100@0	-30.34	-0.01714	±2.5	PASS	TL/VH

Frequency Stability-TL/VL

Test Result

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	-12.66	-0.0074	±2.5	PASS	TL/VL
66	1.4	131979	1710.7	16QAM	6@0	-43.06	-0.02517	±2.5	PASS	TL/VL
66	1.4	132322	1745.0	QPSK	6@0	-21.66	-0.01241	±2.5	PASS	TL/VL
66	1.4	132322	1745.0	16QAM	6@0	-22.24	-0.01275	±2.5	PASS	TL/VL
66	1.4	132665	1779.3	QPSK	6@0	-1.9	-0.00107	±2.5	PASS	TL/VL
66	1.4	132665	1779.3	16QAM	6@0	-5.08	-0.00285	±2.5	PASS	TL/VL
66	3.0	131987	1711.5	QPSK	15@0	-52.16	-0.03047	±2.5	PASS	TL/VL
66	3.0	131987	1711.5	16QAM	15@0	-31.91	-0.01865	±2.5	PASS	TL/VL
66	3.0	132322	1745.0	QPSK	15@0	-44.9	-0.02573	±2.5	PASS	TL/VL
66	3.0	132322	1745.0	16QAM	15@0	-1.39	-0.0008	±2.5	PASS	TL/VL
66	3.0	132657	1778.5	QPSK	15@0	-6.65	-0.00374	±2.5	PASS	TL/VL
66	3.0	132657	1778.5	16QAM	15@0	-10.3	-0.00579	±2.5	PASS	TL/VL
66	5.0	131997	1712.5	QPSK	25@0	14.13	0.00825	±2.5	PASS	TL/VL
66	5.0	131997	1712.5	16QAM	25@0	-18.87	-0.01102	±2.5	PASS	TL/VL
66	5.0	132322	1745.0	QPSK	25@0	-2.46	-0.00141	±2.5	PASS	TL/VL
66	5.0	132322	1745.0	16QAM	25@0	-6.14	-0.00352	±2.5	PASS	TL/VL
66	5.0	132647	1777.5	QPSK	25@0	-11.69	-0.00658	±2.5	PASS	TL/VL
66	5.0	132647	1777.5	16QAM	25@0	-5.89	-0.00332	±2.5	PASS	TL/VL
66	10.0	132022	1715.0	QPSK	50@0	-15.79	-0.00921	±2.5	PASS	TL/VL
66	10.0	132022	1715.0	16QAM	50@0	-30.56	-0.01782	±2.5	PASS	TL/VL
66	10.0	132322	1745.0	QPSK	50@0	-22.75	-0.01303	±2.5	PASS	TL/VL
66	10.0	132322	1745.0	16QAM	50@0	-39.58	-0.02268	±2.5	PASS	TL/VL
66	10.0	132622	1775.0	QPSK	50@0	-12.76	-0.00719	±2.5	PASS	TL/VL
66	10.0	132622	1775.0	16QAM	50@0	-17.94	-0.01011	±2.5	PASS	TL/VL
66	15.0	132047	1717.5	QPSK	75@0	34.89	0.02031	±2.5	PASS	TL/VL
66	15.0	132047	1717.5	16QAM	75@0	-17.8	-0.01036	±2.5	PASS	TL/VL
66	15.0	132322	1745.0	QPSK	75@0	-24.56	-0.01408	±2.5	PASS	TL/VL
66	15.0	132322	1745.0	16QAM	75@0	-13.09	-0.0075	±2.5	PASS	TL/VL
66	15.0	132597	1772.5	QPSK	75@0	0.26	0.00015	±2.5	PASS	TL/VL
66	15.0	132597	1772.5	16QAM	75@0	-12.96	-0.00731	±2.5	PASS	TL/VL
66	20.0	132072	1720.0	QPSK	100@0	37.71	0.02192	±2.5	PASS	TL/VL
66	20.0	132072	1720.0	16QAM	100@0	-31.4	-0.01826	±2.5	PASS	TL/VL
66	20.0	132322	1745.0	QPSK	100@0	-26.92	-0.01543	±2.5	PASS	TL/VL
66	20.0	132322	1745.0	16QAM	100@0	-42.5	-0.02436	±2.5	PASS	TL/VL
66	20.0	132572	1770.0	QPSK	100@0	-30.91	-0.01747	±2.5	PASS	TL/VL
66	20.0	132572	1770.0	16QAM	100@0	-20.7	-0.01169	±2.5	PASS	TL/VL

Frequency Stability-TN/VH

Test Result

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	8.61	0.00503	±2.5	PASS	TN/VH
66	1.4	131979	1710.7	16QAM	6@0	-25.42	-0.01486	±2.5	PASS	TN/VH
66	1.4	132322	1745.0	QPSK	6@0	-19.45	-0.01115	±2.5	PASS	TN/VH
66	1.4	132322	1745.0	16QAM	6@0	-33.3	-0.01908	±2.5	PASS	TN/VH
66	1.4	132665	1779.3	QPSK	6@0	0.32	0.00018	±2.5	PASS	TN/VH
66	1.4	132665	1779.3	16QAM	6@0	-8.73	-0.0049	±2.5	PASS	TN/VH
66	3.0	131987	1711.5	QPSK	15@0	30.78	0.01799	±2.5	PASS	TN/VH
66	3.0	131987	1711.5	16QAM	15@0	-29.65	-0.01733	±2.5	PASS	TN/VH
66	3.0	132322	1745.0	QPSK	15@0	-43.9	-0.02516	±2.5	PASS	TN/VH
66	3.0	132322	1745.0	16QAM	15@0	-37.55	-0.02152	±2.5	PASS	TN/VH
66	3.0	132657	1778.5	QPSK	15@0	-3.4	-0.00191	±2.5	PASS	TN/VH
66	3.0	132657	1778.5	16QAM	15@0	-27.45	-0.01544	±2.5	PASS	TN/VH
66	5.0	131997	1712.5	QPSK	25@0	15.08	0.0088	±2.5	PASS	TN/VH
66	5.0	131997	1712.5	16QAM	25@0	-26.02	-0.01519	±2.5	PASS	TN/VH
66	5.0	132322	1745.0	QPSK	25@0	-24.85	-0.01424	±2.5	PASS	TN/VH
66	5.0	132322	1745.0	16QAM	25@0	6.19	0.00355	±2.5	PASS	TN/VH
66	5.0	132647	1777.5	QPSK	25@0	-30.96	-0.01742	±2.5	PASS	TN/VH
66	5.0	132647	1777.5	16QAM	25@0	-8.14	-0.00458	±2.5	PASS	TN/VH
66	10.0	132022	1715.0	QPSK	50@0	31.04	0.0181	±2.5	PASS	TN/VH
66	10.0	132022	1715.0	16QAM	50@0	-30.7	-0.0179	±2.5	PASS	TN/VH
66	10.0	132322	1745.0	QPSK	50@0	-45.12	-0.02586	±2.5	PASS	TN/VH
66	10.0	132322	1745.0	16QAM	50@0	-37.88	-0.02171	±2.5	PASS	TN/VH
66	10.0	132622	1775.0	QPSK	50@0	-11.09	-0.00625	±2.5	PASS	TN/VH
66	10.0	132622	1775.0	16QAM	50@0	-31.84	-0.01794	±2.5	PASS	TN/VH
66	15.0	132047	1717.5	QPSK	75@0	-1.13	-0.00066	±2.5	PASS	TN/VH
66	15.0	132047	1717.5	16QAM	75@0	-22.76	-0.01325	±2.5	PASS	TN/VH
66	15.0	132322	1745.0	QPSK	75@0	-27.11	-0.01553	±2.5	PASS	TN/VH
66	15.0	132322	1745.0	16QAM	75@0	-4.46	-0.00256	±2.5	PASS	TN/VH
66	15.0	132597	1772.5	QPSK	75@0	-18.87	-0.01065	±2.5	PASS	TN/VH
66	15.0	132597	1772.5	16QAM	75@0	-35.28	-0.0199	±2.5	PASS	TN/VH
66	20.0	132072	1720.0	QPSK	100@0	16.04	0.00932	±2.5	PASS	TN/VH
66	20.0	132072	1720.0	16QAM	100@0	-20.61	-0.01198	±2.5	PASS	TN/VH
66	20.0	132322	1745.0	QPSK	100@0	-18.17	-0.01041	±2.5	PASS	TN/VH
66	20.0	132322	1745.0	16QAM	100@0	-42.21	-0.02419	±2.5	PASS	TN/VH
66	20.0	132572	1770.0	QPSK	100@0	-14.86	-0.0084	±2.5	PASS	TN/VH
66	20.0	132572	1770.0	16QAM	100@0	-14.86	-0.0084	±2.5	PASS	TN/VH

Frequency Stability-TN/VL

Test Result

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	-6.22	-0.00364	±2.5	PASS	TN/VL
66	1.4	131979	1710.7	16QAM	6@0	-13.69	-0.008	±2.5	PASS	TN/VL
66	1.4	132322	1745.0	QPSK	6@0	-25.52	-0.01462	±2.5	PASS	TN/VL
66	1.4	132322	1745.0	16QAM	6@0	29.25	0.01676	±2.5	PASS	TN/VL
66	1.4	132665	1779.3	QPSK	6@0	-10.33	-0.0058	±2.5	PASS	TN/VL
66	1.4	132665	1779.3	16QAM	6@0	-34.62	-0.01946	±2.5	PASS	TN/VL
66	3.0	131987	1711.5	QPSK	15@0	19.08	0.01115	±2.5	PASS	TN/VL
66	3.0	131987	1711.5	16QAM	15@0	-6.25	-0.00365	±2.5	PASS	TN/VL
66	3.0	132322	1745.0	QPSK	15@0	-7.82	-0.00448	±2.5	PASS	TN/VL
66	3.0	132322	1745.0	16QAM	15@0	-11.74	-0.00673	±2.5	PASS	TN/VL
66	3.0	132657	1778.5	QPSK	15@0	9.2	0.00517	±2.5	PASS	TN/VL
66	3.0	132657	1778.5	16QAM	15@0	-11.37	-0.00639	±2.5	PASS	TN/VL
66	5.0	131997	1712.5	QPSK	25@0	22.95	0.0134	±2.5	PASS	TN/VL
66	5.0	131997	1712.5	16QAM	25@0	-32.57	-0.01902	±2.5	PASS	TN/VL
66	5.0	132322	1745.0	QPSK	25@0	-30.88	-0.0177	±2.5	PASS	TN/VL
66	5.0	132322	1745.0	16QAM	25@0	-25.05	-0.01435	±2.5	PASS	TN/VL
66	5.0	132647	1777.5	QPSK	25@0	-26.94	-0.01515	±2.5	PASS	TN/VL
66	5.0	132647	1777.5	16QAM	25@0	-24.36	-0.01371	±2.5	PASS	TN/VL
66	10.0	132022	1715.0	QPSK	50@0	2.49	0.00145	±2.5	PASS	TN/VL
66	10.0	132022	1715.0	16QAM	50@0	3.93	0.00229	±2.5	PASS	TN/VL
66	10.0	132322	1745.0	QPSK	50@0	-24.03	-0.01377	±2.5	PASS	TN/VL
66	10.0	132322	1745.0	16QAM	50@0	-4.45	-0.00255	±2.5	PASS	TN/VL
66	10.0	132622	1775.0	QPSK	50@0	-27.69	-0.0156	±2.5	PASS	TN/VL
66	10.0	132622	1775.0	16QAM	50@0	-30.43	-0.01714	±2.5	PASS	TN/VL
66	15.0	132047	1717.5	QPSK	75@0	22.6	0.01316	±2.5	PASS	TN/VL
66	15.0	132047	1717.5	16QAM	75@0	-10.34	-0.00602	±2.5	PASS	TN/VL
66	15.0	132322	1745.0	QPSK	75@0	-7.48	-0.00429	±2.5	PASS	TN/VL
66	15.0	132322	1745.0	16QAM	75@0	1.96	0.00112	±2.5	PASS	TN/VL
66	15.0	132597	1772.5	QPSK	75@0	-7.31	-0.00412	±2.5	PASS	TN/VL
66	15.0	132597	1772.5	16QAM	75@0	-29.14	-0.01644	±2.5	PASS	TN/VL
66	20.0	132072	1720.0	QPSK	100@0	-5.19	-0.00302	±2.5	PASS	TN/VL
66	20.0	132072	1720.0	16QAM	100@0	-3.83	-0.00223	±2.5	PASS	TN/VL
66	20.0	132322	1745.0	QPSK	100@0	-23.82	-0.01365	±2.5	PASS	TN/VL
66	20.0	132322	1745.0	16QAM	100@0	-6.61	-0.00379	±2.5	PASS	TN/VL
66	20.0	132572	1770.0	QPSK	100@0	-6.24	-0.00352	±2.5	PASS	TN/VL
66	20.0	132572	1770.0	16QAM	100@0	-42.61	-0.02408	±2.5	PASS	TN/VL

7.Modulation Characteristics

Test Result

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

Test Graphs

