

Appendix A Conduction Data for WCDMA

1.Transmitter Conducted Output Power And ERP/EIRP

Test Result

Band	Channel	Freq (MHz)	Connection Type	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)	ERP/EIRP(Li mit) (dBm)	Verdict
2	9262	1852.4	Voice	23.1	24.23	0.265	33.01	PASS
2	9400	1880.0	Voice	23.22	24.35	0.2726	33.01	PASS
2	9538	1907.6	Voice	22.88	24.01	0.2517	33.01	PASS
2	9262	1852.4	RMC	23.06	24.19	0.2627	33.01	PASS
2	9400	1880.0	RMC	23.21	24.34	0.2717	33.01	PASS
2	9538	1907.6	RMC	22.98	24.11	0.2579	33.01	PASS
2	9262	1852.4	HSDPA Subtest-1	22.17	23.3	0.2137	33.01	PASS
2	9400	1880.0	HSDPA Subtest-1	22.19	23.32	0.215	33.01	PASS
2	9538	1907.6	HSDPA Subtest-1	22.06	23.19	0.2085	33.01	PASS
2	9262	1852.4	HSDPA Subtest-2	22.09	23.22	0.2101	33.01	PASS
2	9400	1880.0	HSDPA Subtest-2	22.14	23.27	0.2124	33.01	PASS
2	9538	1907.6	HSDPA Subtest-2	22.0	23.13	0.2057	33.01	PASS
2	9262	1852.4	HSDPA Subtest-3	21.58	22.71	0.1866	33.01	PASS
2	9400	1880.0	HSDPA Subtest-3	21.6	22.73	0.1876	33.01	PASS
2	9538	1907.6	HSDPA Subtest-3	21.51	22.64	0.1838	33.01	PASS
2	9262	1852.4	HSDPA Subtest-4	21.57	22.7	0.1861	33.01	PASS
2	9400	1880.0	HSDPA Subtest-4	21.59	22.72	0.1869	33.01	PASS
2	9538	1907.6	HSDPA Subtest-4	21.48	22.61	0.1824	33.01	PASS
2	9262	1852.4	HSUPA Subtest-1	21.55	22.68	0.1853	33.01	PASS
2	9400	1880.0	HSUPA Subtest-1	22.1	23.23	0.2102	33.01	PASS
2	9538	1907.6	HSUPA Subtest-1	22.05	23.18	0.2078	33.01	PASS
2	9262	1852.4	HSUPA Subtest-2	22.13	23.26	0.2118	33.01	PASS
2	9400	1880.0	HSUPA Subtest-2	22.16	23.29	0.2133	33.01	PASS
2	9538	1907.6	HSUPA Subtest-2	22.08	23.21	0.2093	33.01	PASS
2	9262	1852.4	HSUPA Subtest-3	21.61	22.74	0.1881	33.01	PASS
2	9400	1880.0	HSUPA Subtest-3	21.61	22.74	0.1877	33.01	PASS
2	9538	1907.6	HSUPA Subtest-3	21.57	22.7	0.1862	33.01	PASS
2	9262	1852.4	HSUPA Subtest-4	22.22	23.35	0.216	33.01	PASS
2	9400	1880.0	HSUPA Subtest-4	22.18	23.31	0.2141	33.01	PASS
2	9538	1907.6	HSUPA Subtest-4	22.09	23.22	0.2098	33.01	PASS
2	9262	1852.4	HSUPA Subtest-5	21.65	22.78	0.1896	33.01	PASS
2	9400	1880.0	HSUPA Subtest-5	21.63	22.76	0.1887	33.01	PASS
2	9538	1907.6	HSUPA Subtest-5	21.53	22.66	0.1844	33.01	PASS
4	1312	1712.4	Voice	23.75	21.29	0.1346	30	PASS
4	1412	1732.4	Voice	23.48	21.02	0.1264	30	PASS
4	1513	1752.6	Voice	23.56	21.1	0.1287	30	PASS
4	1312	1712.4	RMC	23.74	21.28	0.1342	30	PASS
4	1412	1732.4	RMC	23.72	21.26	0.1336	30	PASS
4	1513	1752.6	RMC	23.39	20.93	0.1239	30	PASS
4	1312	1712.4	HSDPA Subtest-1	22.78	20.32	0.1077	30	PASS
4	1412	1732.4	HSDPA Subtest-1	22.73	20.27	0.1065	30	PASS
4	1513	1752.6	HSDPA Subtest-1	22.63	20.17	0.104	30	PASS
4	1312	1712.4	HSDPA Subtest-2	22.67	20.21	0.1049	30	PASS
4	1412	1732.4	HSDPA Subtest-2	22.6	20.14	0.1032	30	PASS
4	1513	1752.6	HSDPA Subtest-2	22.53	20.07	0.1017	30	PASS
4	1312	1712.4	HSDPA Subtest-3	22.14	19.68	0.0928	30	PASS
4	1412	1732.4	HSDPA Subtest-3	22.11	19.65	0.0922	30	PASS
4	1513	1752.6	HSDPA Subtest-3	22.04	19.58	0.0907	30	PASS
4	1312	1712.4	HSDPA Subtest-4	22.12	19.66	0.0925	30	PASS
4	1412	1732.4	HSDPA Subtest-4	22.08	19.62	0.0916	30	PASS
4	1513	1752.6	HSDPA Subtest-4	22.0	19.54	0.09	30	PASS
4	1312	1712.4	HSUPA Subtest-1	22.15	19.69	0.093	30	PASS
4	1412	1732.4	HSUPA Subtest-1	22.64	20.18	0.1042	30	PASS
4	1513	1752.6	HSUPA Subtest-1	22.53	20.07	0.1016	30	PASS
4	1312	1712.4	HSUPA Subtest-2	22.68	20.22	0.1053	30	PASS
4	1412	1732.4	HSUPA Subtest-2	22.7	20.24	0.1057	30	PASS
4	1513	1752.6	HSUPA Subtest-2	22.59	20.13	0.1031	30	PASS
4	1312	1712.4	HSUPA Subtest-3	22.16	19.7	0.0932	30	PASS
4	1412	1732.4	HSUPA Subtest-3	22.12	19.66	0.0925	30	PASS
4	1513	1752.6	HSUPA Subtest-3	22.03	19.57	0.0906	30	PASS
4	1312	1712.4	HSUPA Subtest-4	22.76	20.3	0.1072	30	PASS
4	1412	1732.4	HSUPA Subtest-4	22.73	20.27	0.1065	30	PASS
4	1513	1752.6	HSUPA Subtest-4	22.64	20.18	0.1042	30	PASS
4	1312	1712.4	HSUPA Subtest-5	22.15	19.69	0.0931	30	PASS
4	1412	1732.4	HSUPA Subtest-5	22.17	19.71	0.0935	30	PASS
4	1513	1752.6	HSUPA Subtest-5	22.08	19.62	0.0916	30	PASS
5	4132	826.4	Voice	22.92	17.8	0.0602	38.45	PASS
5	4182	836.4	Voice	23.08	17.96	0.0625	38.45	PASS
5	4233	846.6	Voice	23.11	17.99	0.063	38.45	PASS
5	4132	826.4	RMC	22.95	17.83	0.0607	38.45	PASS
5	4182	836.4	RMC	23.07	17.95	0.0623	38.45	PASS
5	4233	846.6	RMC	23.08	17.96	0.0625	38.45	PASS
5	4132	826.4	HSDPA Subtest-1	22.07	16.95	0.0496	38.45	PASS
5	4182	836.4	HSDPA Subtest-1	22.14	17.02	0.0504	38.45	PASS

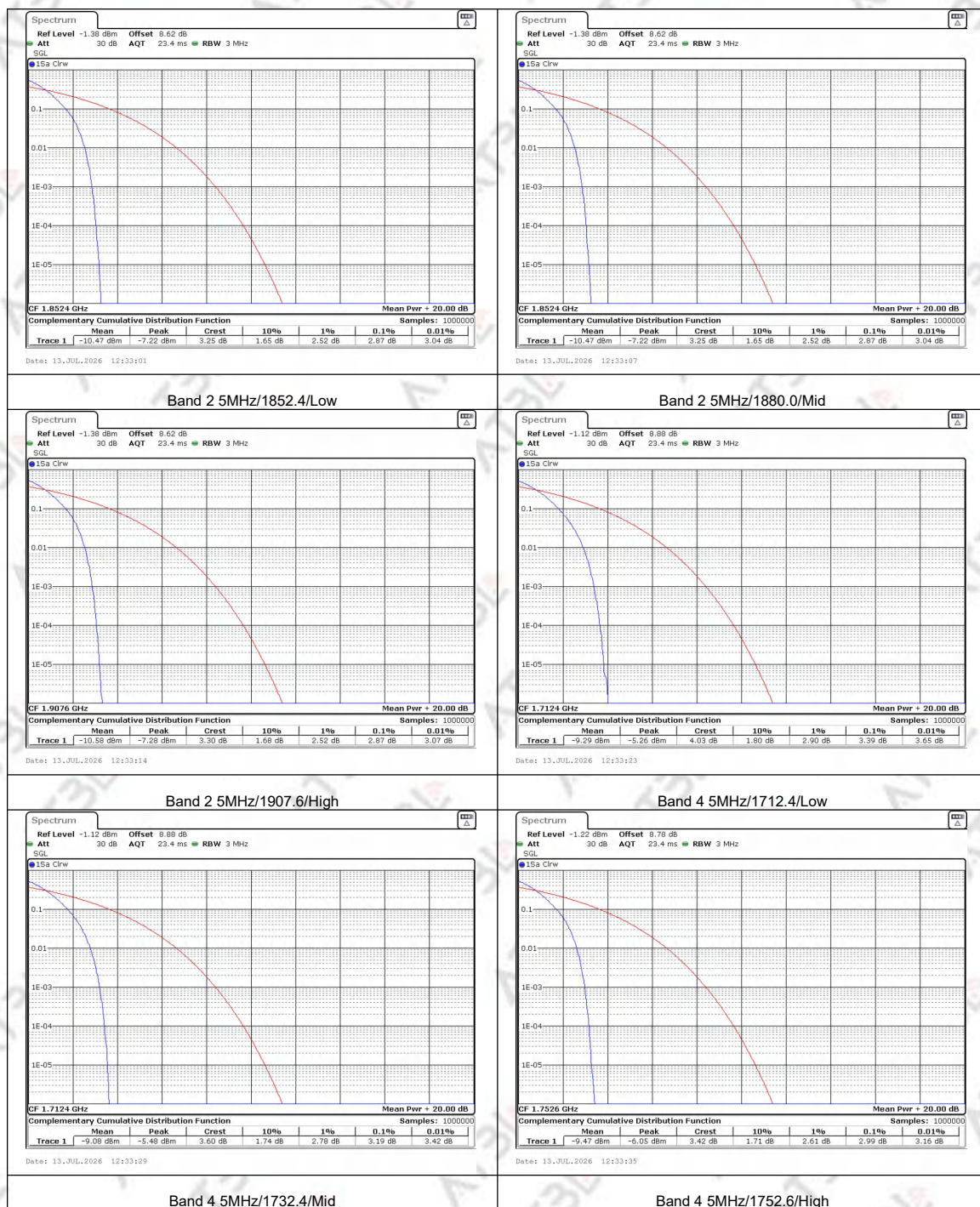
5	4233	846.6	HSDPA Subtest-1	22.19	17.07	0.0509	38.45	PASS
5	4132	826.4	HSDPA Subtest-2	22.04	16.92	0.0492	38.45	PASS
5	4182	836.4	HSDPA Subtest-2	22.05	16.93	0.0493	38.45	PASS
5	4233	846.6	HSDPA Subtest-2	22.07	16.95	0.0496	38.45	PASS
5	4132	826.4	HSDPA Subtest-3	21.46	16.34	0.0431	38.45	PASS
5	4182	836.4	HSDPA Subtest-3	21.52	16.4	0.0437	38.45	PASS
5	4233	846.6	HSDPA Subtest-3	21.68	16.56	0.0453	38.45	PASS
5	4132	826.4	HSDPA Subtest-4	21.47	16.35	0.0432	38.45	PASS
5	4182	836.4	HSDPA Subtest-4	21.51	16.39	0.0436	38.45	PASS
5	4233	846.6	HSDPA Subtest-4	21.56	16.44	0.044	38.45	PASS
5	4132	826.4	HSUPA Subtest-1	21.5	16.38	0.0435	38.45	PASS
5	4182	836.4	HSUPA Subtest-1	22.1	16.98	0.0499	38.45	PASS
5	4233	846.6	HSUPA Subtest-1	22.13	17.01	0.0502	38.45	PASS
5	4132	826.4	HSUPA Subtest-2	22.08	16.96	0.0497	38.45	PASS
5	4182	836.4	HSUPA Subtest-2	22.09	16.97	0.0498	38.45	PASS
5	4233	846.6	HSUPA Subtest-2	22.13	17.01	0.0503	38.45	PASS
5	4132	826.4	HSUPA Subtest-3	21.56	16.44	0.0441	38.45	PASS
5	4182	836.4	HSUPA Subtest-3	21.57	16.45	0.0441	38.45	PASS
5	4233	846.6	HSUPA Subtest-3	21.61	16.49	0.0446	38.45	PASS
5	4132	826.4	HSUPA Subtest-4	22.1	16.98	0.0499	38.45	PASS
5	4182	836.4	HSUPA Subtest-4	22.13	17.01	0.0502	38.45	PASS
5	4233	846.6	HSUPA Subtest-4	22.18	17.06	0.0508	38.45	PASS
5	4132	826.4	HSUPA Subtest-5	21.53	16.41	0.0438	38.45	PASS
5	4182	836.4	HSUPA Subtest-5	21.56	16.44	0.0441	38.45	PASS
5	4233	846.6	HSUPA Subtest-5	21.61	16.49	0.0445	38.45	PASS

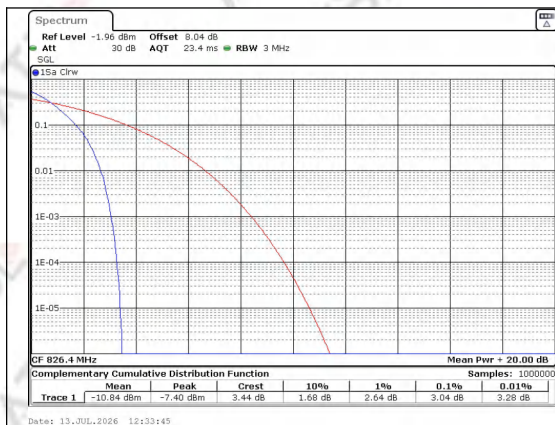
2. Peak to Average Ratio

Test Result

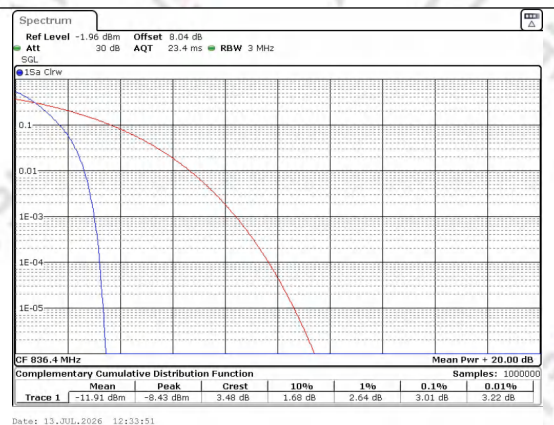
Band	Channel	Freq (MHz)	Result (dB)	Limit (dB)	Verdict
2	9262	1852.4	2.87	13	PASS
2	9400	1852.4	2.87	13	PASS
2	9538	1907.6	2.87	13	PASS
4	1312	1712.4	3.39	13	PASS
4	1412	1712.4	3.19	13	PASS
4	1513	1752.6	2.99	13	PASS
5	4132	826.4	3.04	13	PASS
5	4182	836.4	3.01	13	PASS
5	4233	846.6	3.13	13	PASS

Test Graphs

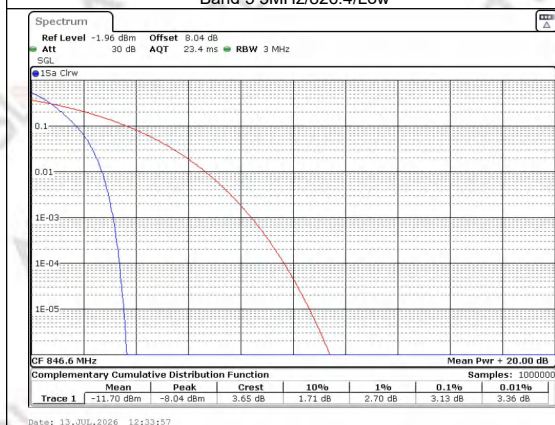




Band 5 5MHz/826.4/Low



Band 5 5MHz/836.4/Mid



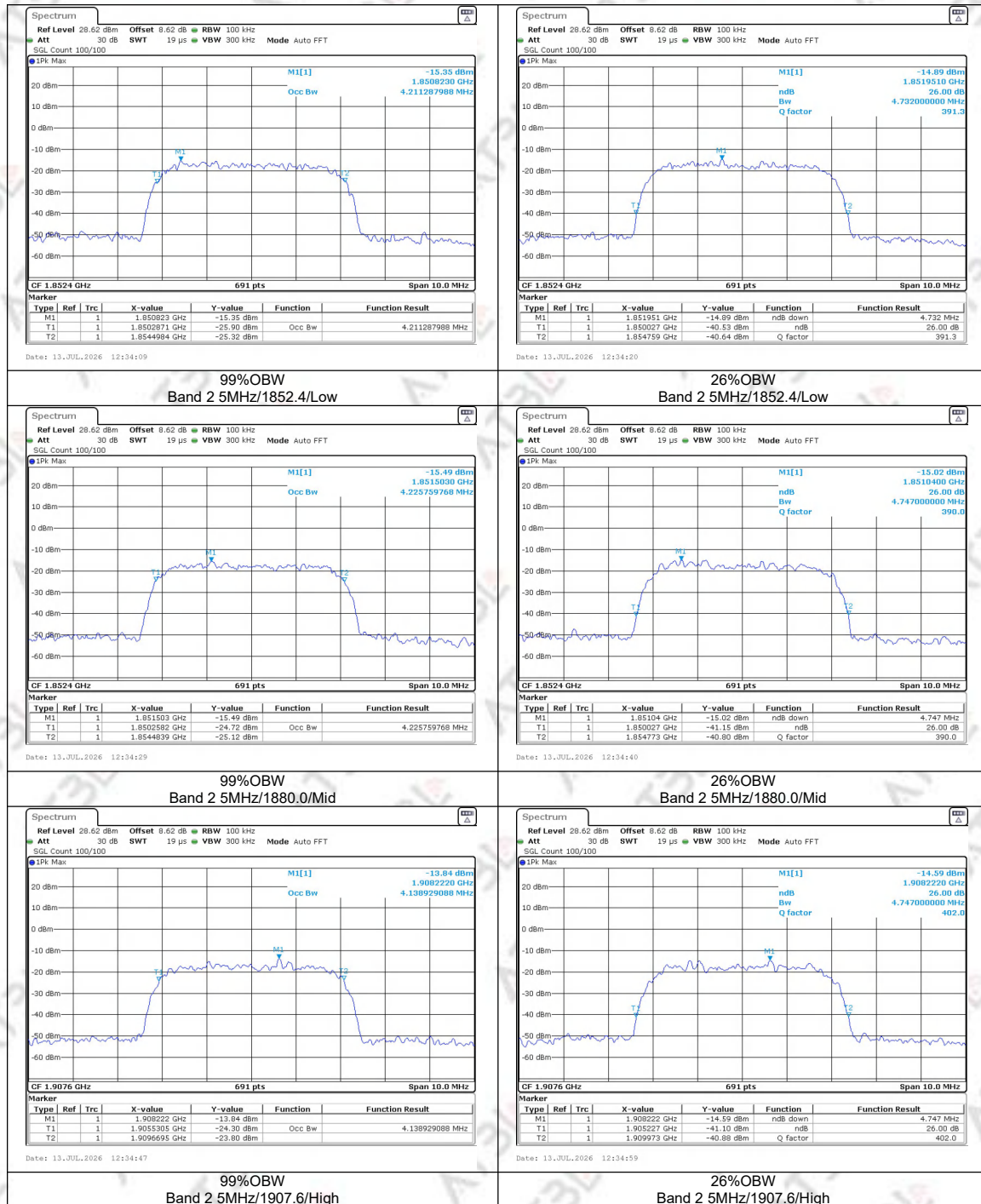
Band 5 5MHz/846.6/High

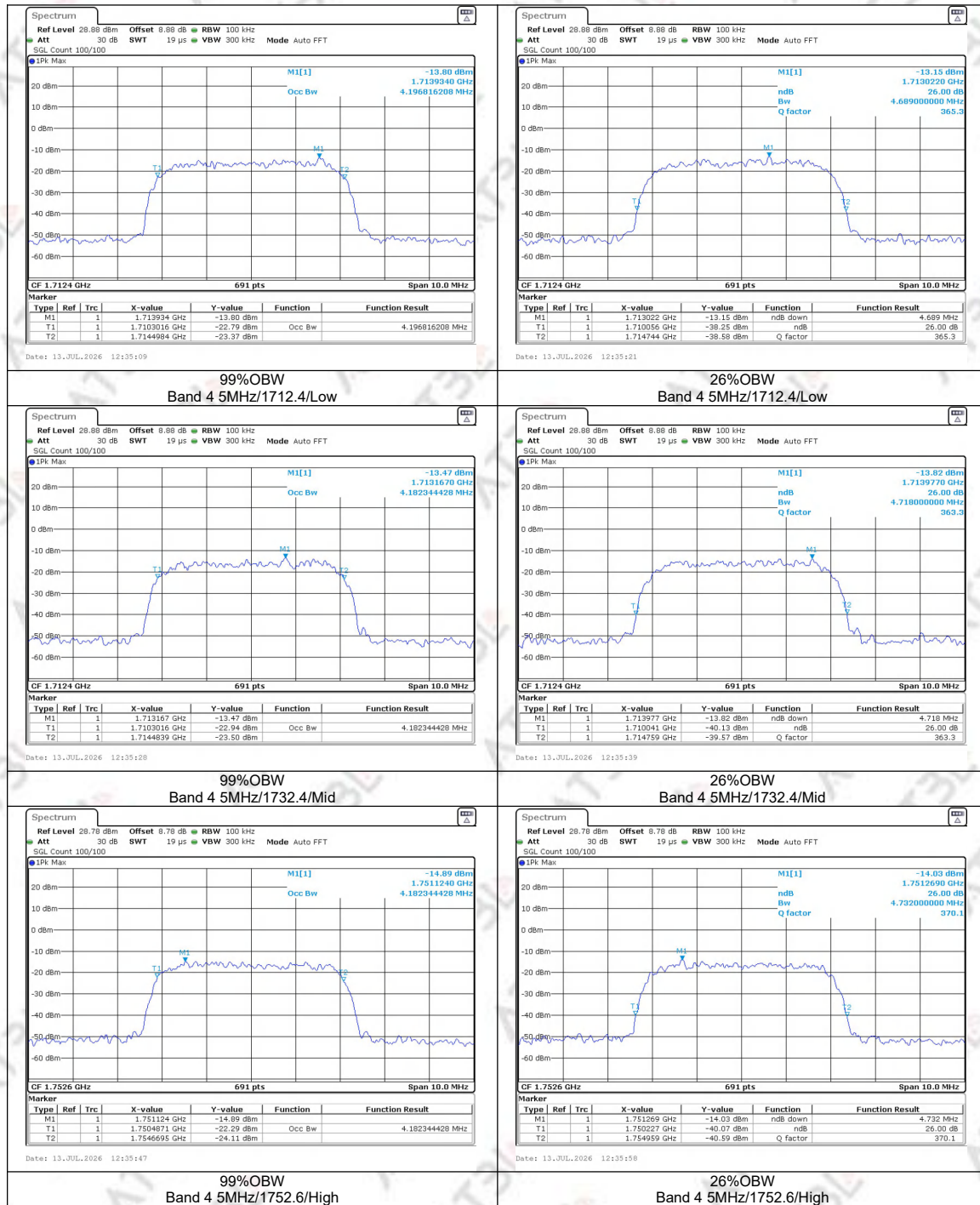
3.Occupied Bandwidth

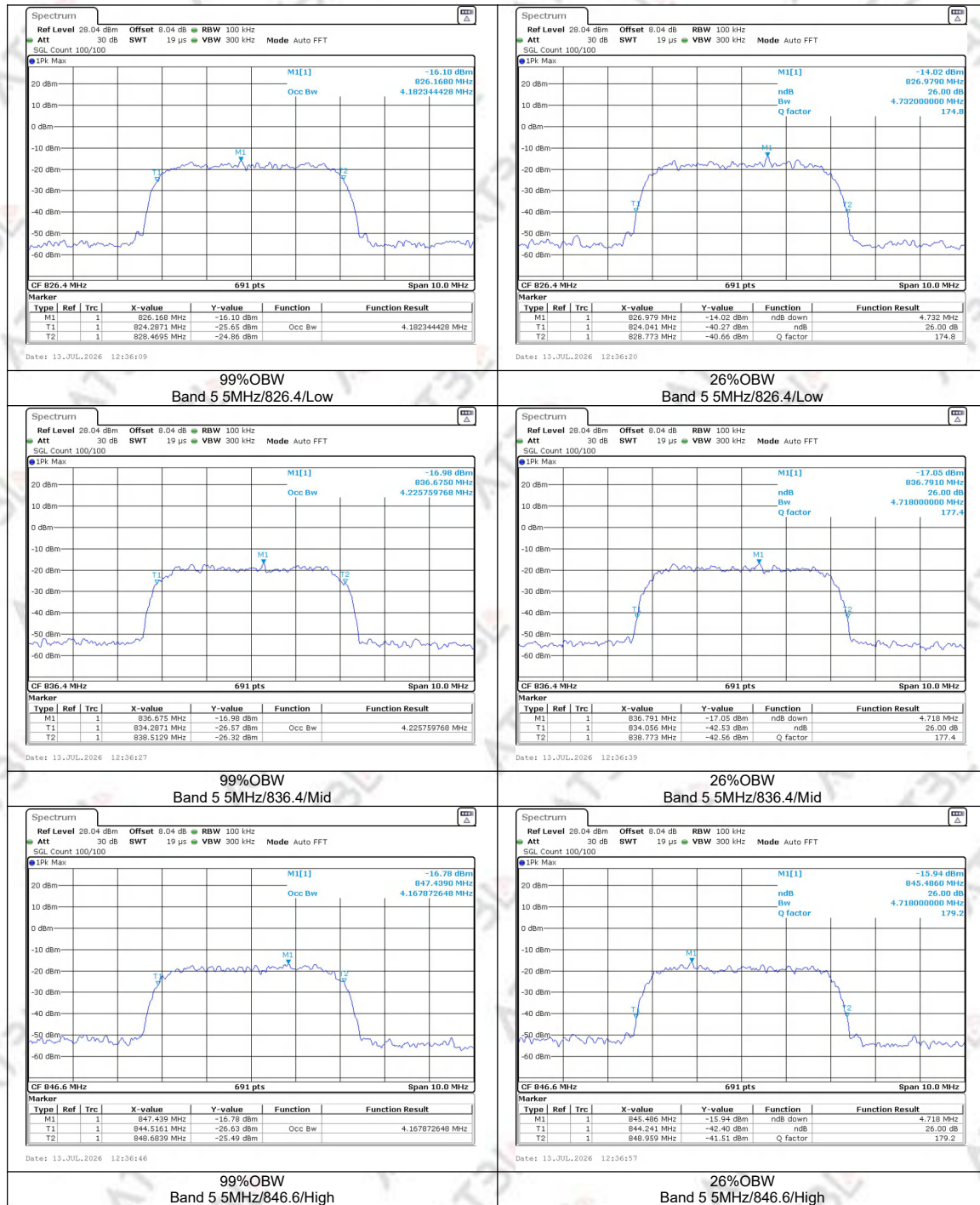
Test Result

Band	Channel	Freq (MHz)	OBW (MHz)	26dB BW (MHz)	Verdict
2	9262	1852.4	4.2113	4.732	PASS
2	9400	1852.4	4.2258	4.747	PASS
2	9538	1907.6	4.1389	4.747	PASS
4	1312	1712.4	4.1968	4.689	PASS
4	1412	1712.4	4.1823	4.718	PASS
4	1513	1752.6	4.1823	4.732	PASS
5	4132	826.4	4.1823	4.732	PASS
5	4182	836.4	4.2258	4.718	PASS
5	4233	846.6	4.1679	4.718	PASS

Test Graphs





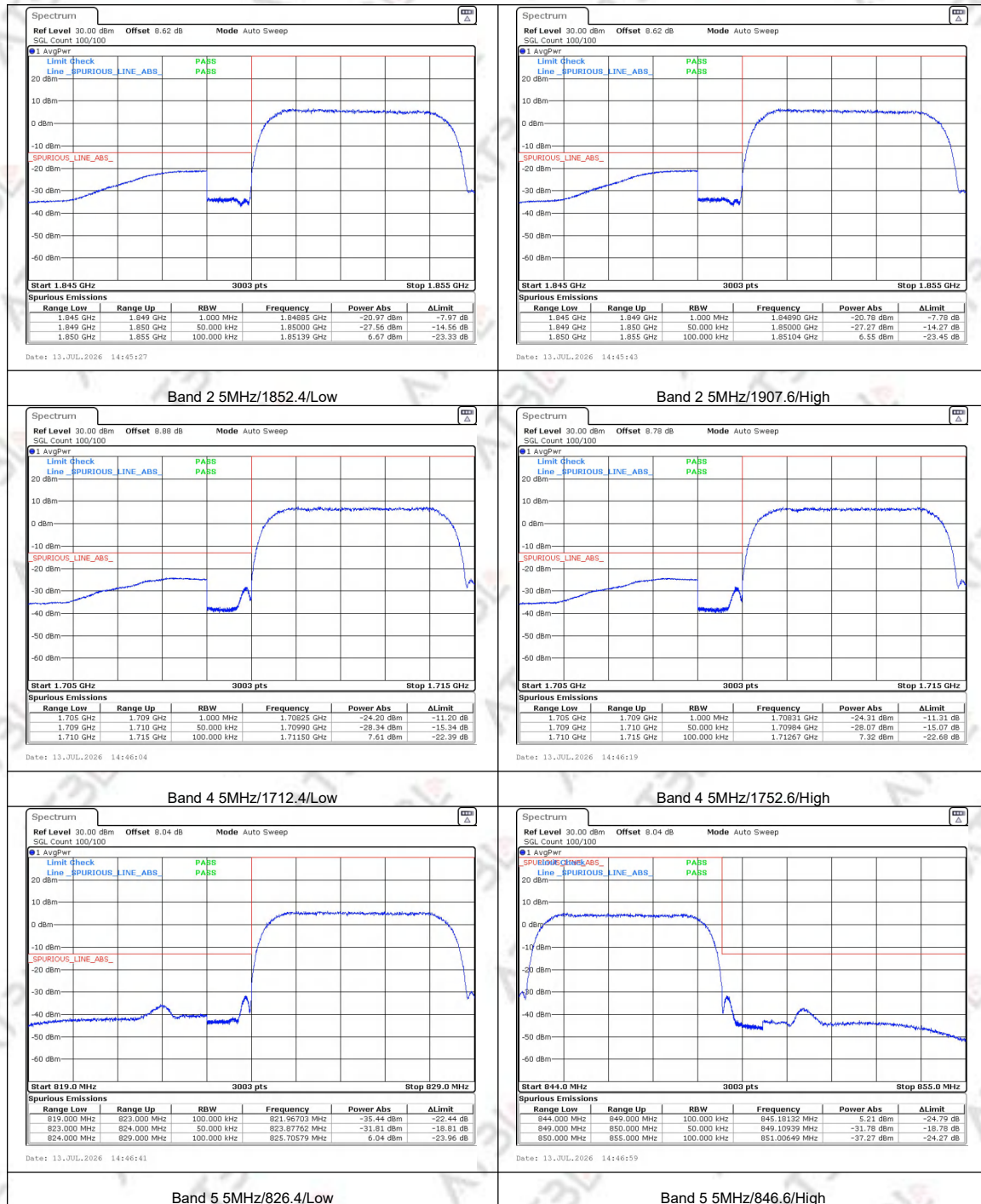


4. Conducted Band Edge

Test Result

Band	Channel	Freq (MHz)	Result	Verdict
2	9262	1852.4	see graph	PASS
2	9538	1852.4	see graph	PASS
4	1312	1712.4	see graph	PASS
4	1513	1712.4	see graph	PASS
5	4132	826.4	see graph	PASS
5	4233	846.6	see graph	PASS

Test Graphs

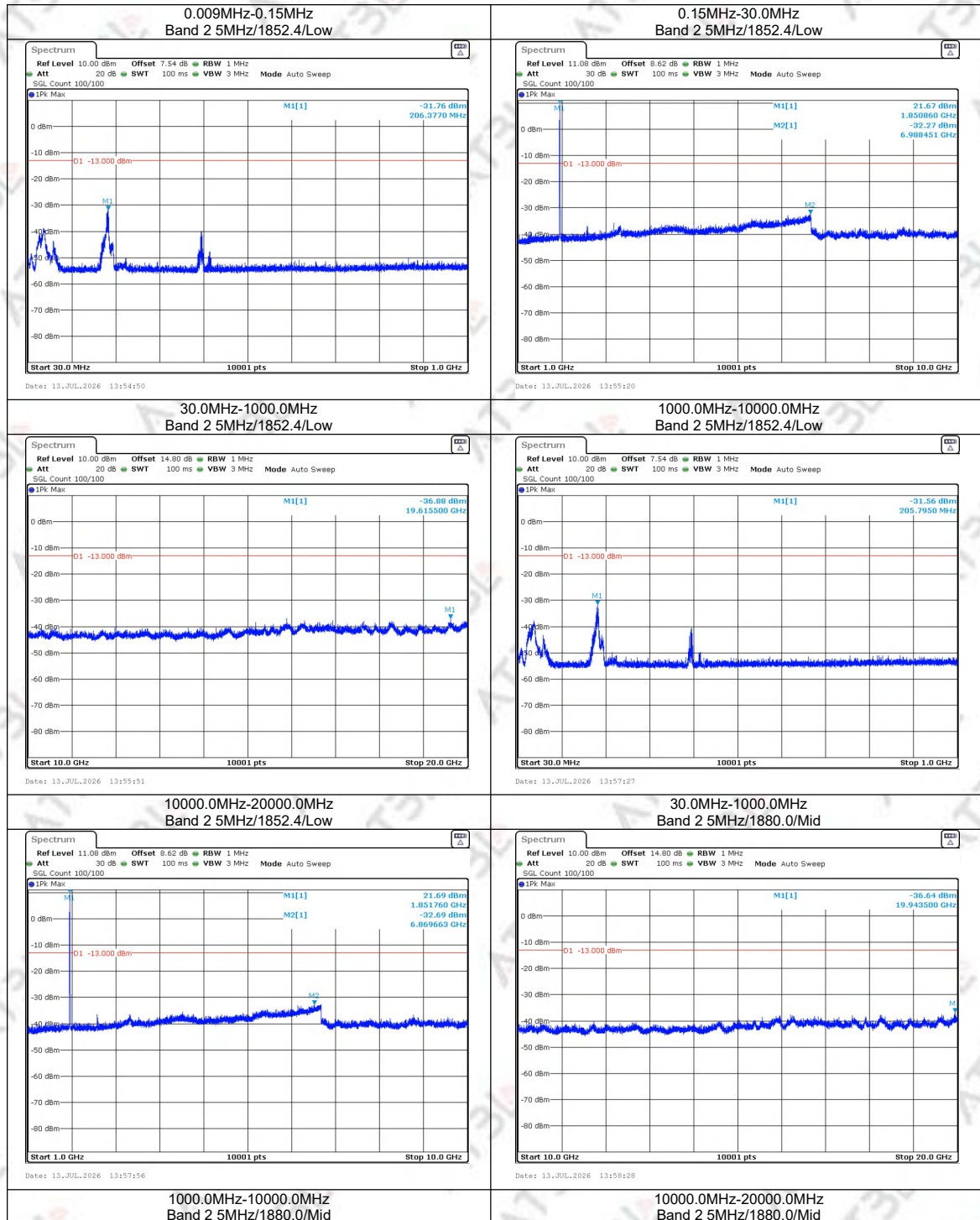


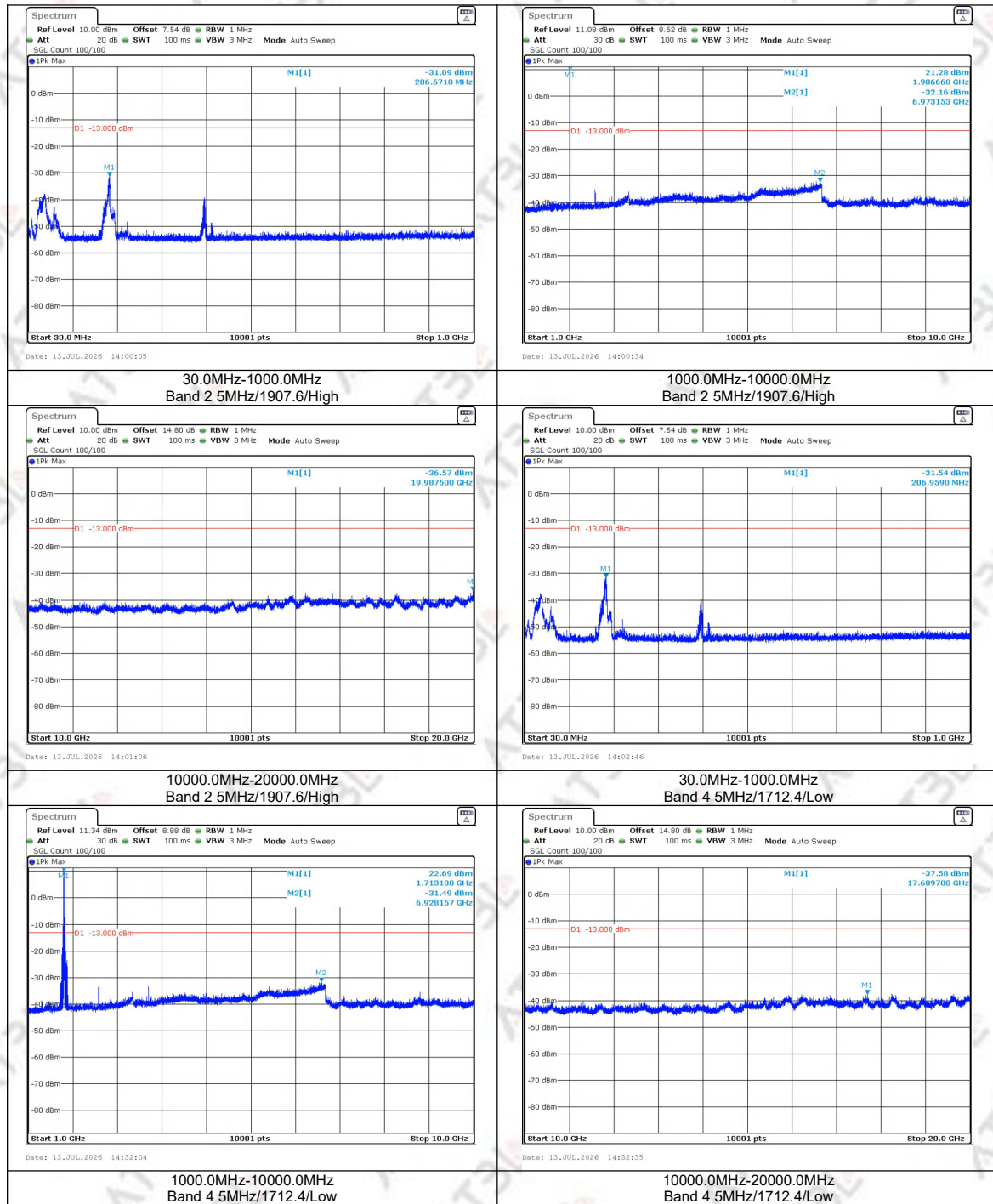
5. Conducted Spurious Emissions

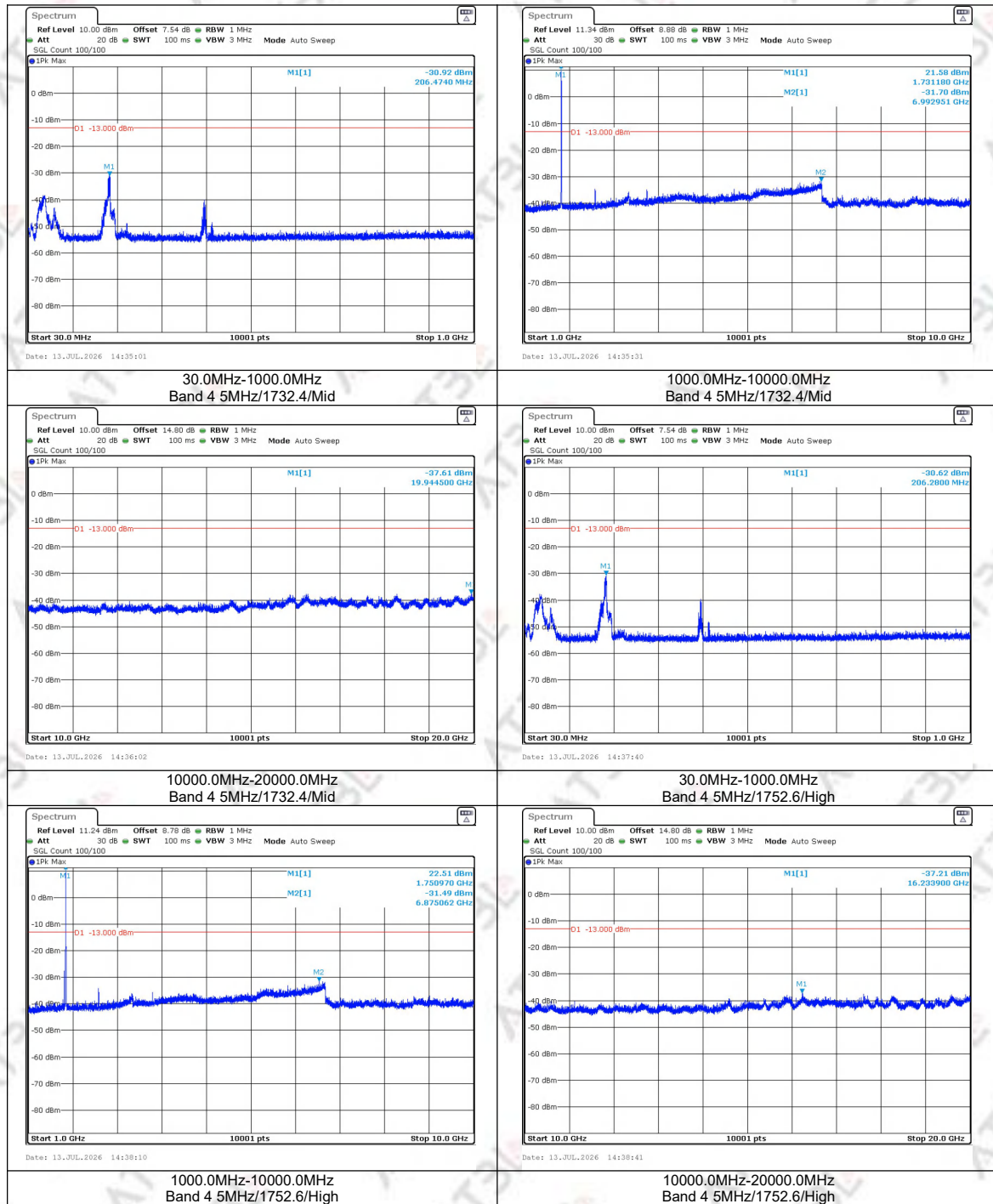
Test Result

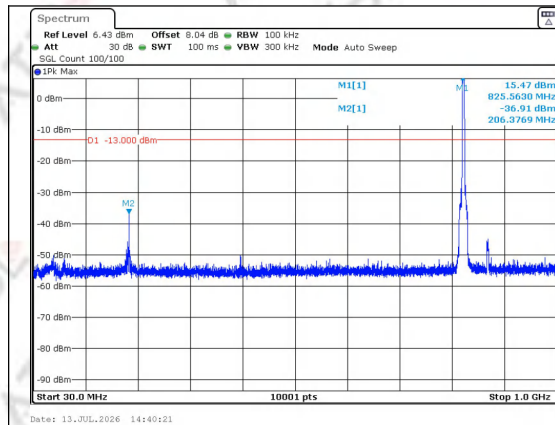
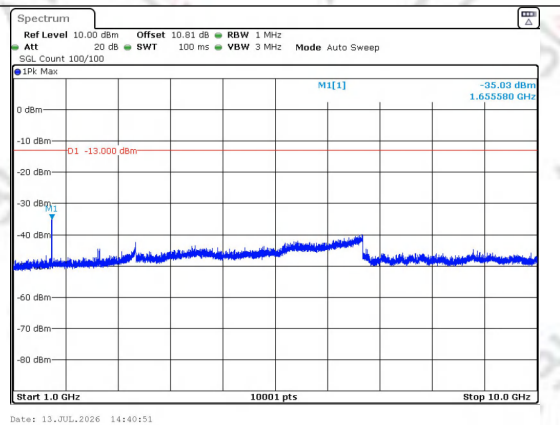
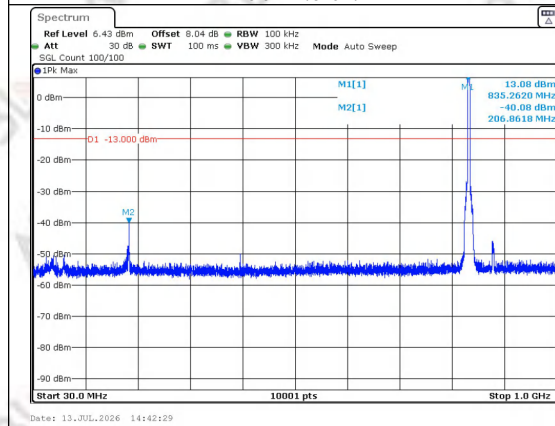
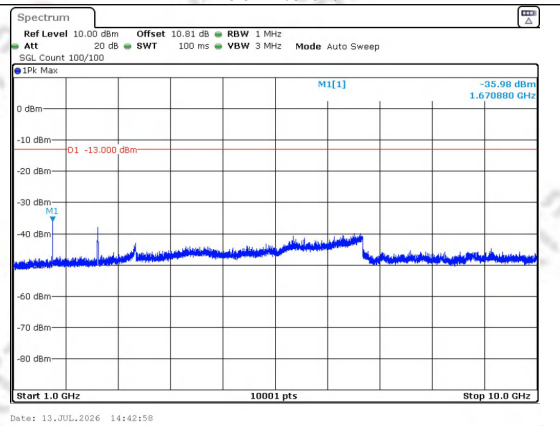
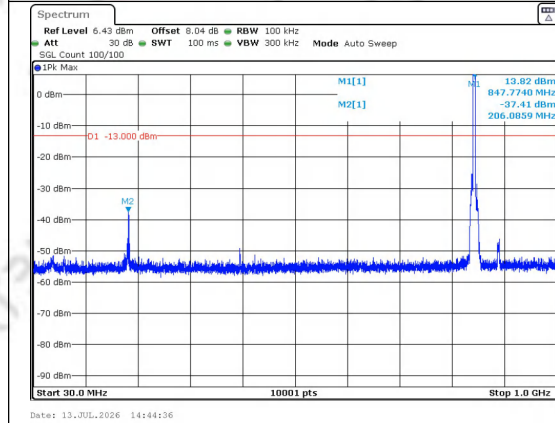
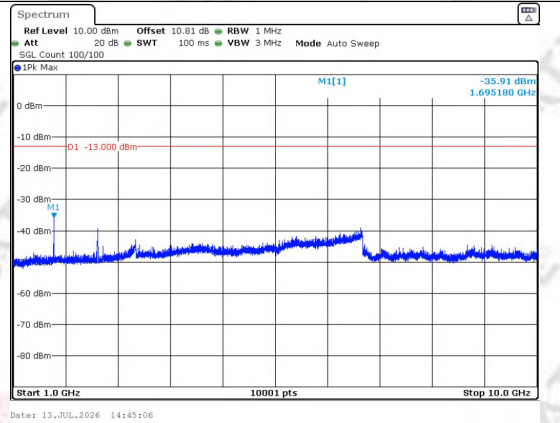
Band	Channel	Freq (MHz)	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
2	9262	1852.4	30.0	1000.0	-31.76	-13	PASS
2	9262	1852.4	1000.0	10000.0	-32.27	-13	PASS
2	9262	1852.4	10000.0	20000.0	-36.88	-13	PASS
2	9400	1852.4	30.0	1000.0	-31.56	-13	PASS
2	9400	1852.4	1000.0	10000.0	-32.69	-13	PASS
2	9400	1852.4	10000.0	20000.0	-36.64	-13	PASS
2	9538	1907.6	30.0	1000.0	-31.09	-13	PASS
2	9538	1907.6	1000.0	10000.0	-32.16	-13	PASS
2	9538	1907.6	10000.0	20000.0	-36.57	-13	PASS
4	1312	1712.4	30.0	1000.0	-31.54	-13	PASS
4	1312	1712.4	1000.0	10000.0	-31.49	-13	PASS
4	1312	1712.4	10000.0	20000.0	-37.58	-13	PASS
4	1412	1732.4	30.0	1000.0	-30.92	-13	PASS
4	1412	1732.4	1000.0	10000.0	-31.7	-13	PASS
4	1412	1732.4	10000.0	20000.0	-37.61	-13	PASS
4	1513	1752.6	30.0	1000.0	-30.62	-13	PASS
4	1513	1752.6	1000.0	10000.0	-31.49	-13	PASS
4	1513	1752.6	10000.0	20000.0	-37.21	-13	PASS
5	4132	826.4	30.0	1000.0	-36.91	-13	PASS
5	4132	826.4	1000.0	10000.0	-35.03	-13	PASS
5	4182	836.4	30.0	1000.0	-40.08	-13	PASS
5	4182	836.4	1000.0	10000.0	-35.98	-13	PASS
5	4233	846.6	30.0	1000.0	-37.41	-13	PASS
5	4233	846.6	1000.0	10000.0	-35.91	-13	PASS

Test Graphs








30.0MHz-1000.0MHz
Band 5 5MHz/826.4/Low

1000.0MHz-10000.0MHz
Band 5 5MHz/826.4/Low

30.0MHz-1000.0MHz
Band 5 5MHz/836.4/Mid

1000.0MHz-10000.0MHz
Band 5 5MHz/836.4/Mid

30.0MHz-1000.0MHz
Band 5 5MHz/846.6/High

1000.0MHz-10000.0MHz
Band 5 5MHz/846.6/High

6.Frequency Stability-TN/VN

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-12.07	-0.006518	±2.5	PASS	TN/VN
2	9400	1880.0	-14.11	-0.007506	±2.5	PASS	TN/VN
2	9538	1907.6	-14.9	-0.00781	±2.5	PASS	TN/VN
4	1312	1712.4	-11.93	-0.006967	±2.5	PASS	TN/VN
4	1412	1732.4	-10.19	-0.005883	±2.5	PASS	TN/VN
4	1513	1752.6	-11.19	-0.006383	±2.5	PASS	TN/VN
5	4132	826.4	-8.92	-0.010793	±2.5	PASS	TN/VN
5	4182	836.4	-12.95	-0.015478	±2.5	PASS	TN/VN
5	4233	846.6	-12.05	-0.014236	±2.5	PASS	TN/VN

Frequency Stability-TH/VH

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-13.35	-0.007205	±2.5	PASS	TH/VH
2	9400	1880.0	-13.15	-0.006997	±2.5	PASS	TH/VH
2	9538	1907.6	-12.17	-0.006378	±2.5	PASS	TH/VH
4	1312	1712.4	-13.74	-0.008024	±2.5	PASS	TH/VH
4	1412	1732.4	-10.86	-0.006267	±2.5	PASS	TH/VH
4	1513	1752.6	-10.41	-0.005942	±2.5	PASS	TH/VH
5	4132	826.4	-11.53	-0.013952	±2.5	PASS	TH/VH
5	4182	836.4	-10.72	-0.012819	±2.5	PASS	TH/VH
5	4233	846.6	-9.16	-0.010823	±2.5	PASS	TH/VH

Frequency Stability-TH/VL

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-11.52	-0.006217	±2.5	PASS	TH/VL
2	9400	1880.0	-11.89	-0.006327	±2.5	PASS	TH/VL
2	9538	1907.6	-12.42	-0.006509	±2.5	PASS	TH/VL
4	1312	1712.4	-13.4	-0.007828	±2.5	PASS	TH/VL
4	1412	1732.4	-10.46	-0.006036	±2.5	PASS	TH/VL
4	1513	1752.6	-10.47	-0.005975	±2.5	PASS	TH/VL
5	4132	826.4	-11.76	-0.014229	±2.5	PASS	TH/VL
5	4182	836.4	-8.84	-0.01057	±2.5	PASS	TH/VL
5	4233	846.6	-9.05	-0.010687	±2.5	PASS	TH/VL

Frequency Stability-TH/VN

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-10.05	-0.005425	±2.5	PASS	TH/VN
2	9400	1880.0	-8.72	-0.004638	±2.5	PASS	TH/VN
2	9538	1907.6	-14.01	-0.007345	±2.5	PASS	TH/VN
4	1312	1712.4	-12.02	-0.007021	±2.5	PASS	TH/VN
4	1412	1732.4	-8.72	-0.005033	±2.5	PASS	TH/VN
4	1513	1752.6	-10.67	-0.006089	±2.5	PASS	TH/VN
5	4132	826.4	-10.86	-0.013147	±2.5	PASS	TH/VN
5	4182	836.4	-11.74	-0.014042	±2.5	PASS	TH/VN
5	4233	846.6	-7.65	-0.00904	±2.5	PASS	TH/VN

Frequency Stability-TL/VH

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-12.85	-0.006939	±2.5	PASS	TL/VH
2	9400	1880.0	-9.45	-0.005026	±2.5	PASS	TL/VH
2	9538	1907.6	-10.33	-0.005414	±2.5	PASS	TL/VH
4	1312	1712.4	-11.2	-0.006541	±2.5	PASS	TL/VH
4	1412	1732.4	-11.3	-0.006523	±2.5	PASS	TL/VH
4	1513	1752.6	-9.88	-0.005636	±2.5	PASS	TL/VH
5	4132	826.4	-13.44	-0.016263	±2.5	PASS	TL/VH
5	4182	836.4	-5.91	-0.007064	±2.5	PASS	TL/VH
5	4233	846.6	-6.85	-0.008094	±2.5	PASS	TL/VH

Frequency Stability-TL/VL

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-8.63	-0.004657	±2.5	PASS	TL/VL
2	9400	1880.0	-7.98	-0.004242	±2.5	PASS	TL/VL
2	9538	1907.6	-9.53	-0.004998	±2.5	PASS	TL/VL
4	1312	1712.4	-13.09	-0.007644	±2.5	PASS	TL/VL
4	1412	1732.4	-11.02	-0.006362	±2.5	PASS	TL/VL
4	1513	1752.6	-10.79	-0.006158	±2.5	PASS	TL/VL
5	4132	826.4	-12.01	-0.014532	±2.5	PASS	TL/VL
5	4182	836.4	-9.81	-0.011724	±2.5	PASS	TL/VL
5	4233	846.6	-6.98	-0.008246	±2.5	PASS	TL/VL

Frequency Stability-TL/VN

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-9.38	-0.005066	±2.5	PASS	TL/VN
2	9400	1880.0	-8.36	-0.004448	±2.5	PASS	TL/VN
2	9538	1907.6	-10.23	-0.005362	±2.5	PASS	TL/VN
4	1312	1712.4	-10.63	-0.006207	±2.5	PASS	TL/VN
4	1412	1732.4	-9.16	-0.005285	±2.5	PASS	TL/VN
4	1513	1752.6	-9.6	-0.005477	±2.5	PASS	TL/VN
5	4132	826.4	-13.85	-0.016756	±2.5	PASS	TL/VN
5	4182	836.4	-10.94	-0.013075	±2.5	PASS	TL/VN
5	4233	846.6	-7.21	-0.008516	±2.5	PASS	TL/VN

Frequency Stability-TN/VH

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-8.68	-0.004684	±2.5	PASS	TN/VH
2	9400	1880.0	-9.39	-0.004995	±2.5	PASS	TN/VH
2	9538	1907.6	-9.51	-0.004983	±2.5	PASS	TN/VH
4	1312	1712.4	-13.58	-0.007928	±2.5	PASS	TN/VH
4	1412	1732.4	-7.45	-0.004302	±2.5	PASS	TN/VH
4	1513	1752.6	-10.48	-0.005979	±2.5	PASS	TN/VH
5	4132	826.4	-10.25	-0.012403	±2.5	PASS	TN/VH
5	4182	836.4	-8.6	-0.010279	±2.5	PASS	TN/VH
5	4233	846.6	-6.13	-0.00724	±2.5	PASS	TN/VH

Frequency Stability-TN/VL

Test Result

Band	Channel	Freq (MHz)	Deviation (Hz)	Deviation (ppm)	Limit(ppm)	Verdict	Environment
2	9262	1852.4	-12.72	-0.006869	±2.5	PASS	TN/VL
2	9400	1880.0	-9.09	-0.004836	±2.5	PASS	TN/VL
2	9538	1907.6	-10.29	-0.005396	±2.5	PASS	TN/VL
4	1312	1712.4	-14.42	-0.008421	±2.5	PASS	TN/VL
4	1412	1732.4	-9.1	-0.005252	±2.5	PASS	TN/VL
4	1513	1752.6	-10.49	-0.005987	±2.5	PASS	TN/VL
5	4132	826.4	-9.01	-0.010905	±2.5	PASS	TN/VL
5	4182	836.4	-9.55	-0.011416	±2.5	PASS	TN/VL
5	4233	846.6	-7.27	-0.008584	±2.5	PASS	TN/VL

7.Modulation Characteristics

Test Result

Band	Channel	Freq (MHz)	Verdict
2	9262	1852.4	PASS
2	9400	1880.0	PASS
2	9538	1907.6	PASS
4	1312	1712.4	PASS
4	1412	1732.4	PASS
4	1513	1752.6	PASS
5	4132	826.4	PASS
5	4182	836.4	PASS
5	4233	846.6	PASS