

Transmitter Conducted Output Power And ERP/EIRP

Band	Channel	Freq (MHz)	Connection Type	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)	ERP/EIRP Limit (dBm)	Verdict
2	9538	1907.6	Voice	17.69	15.29	0.0338	33	PASS
2	9400	1880.0	Voice	17.71	15.31	0.0340	33	PASS
2	9262	1852.4	Voice	17.88	15.48	0.0353	33	PASS
2	9538	1907.6	RMC	17.71	15.31	0.0340	33	PASS
2	9400	1880.0	RMC	17.53	15.13	0.0326	33	PASS
2	9262	1852.4	RMC	17.68	15.28	0.0337	33	PASS
2	9538	1907.6	HSDPA Subtest-1	16.78	14.38	0.0274	33	PASS
2	9400	1880.0	HSDPA Subtest-1	16.51	14.11	0.0258	33	PASS
2	9262	1852.4	HSDPA Subtest-1	16.05	13.65	0.0232	33	PASS
2	9538	1907.6	HSDPA Subtest-2	16.01	13.61	0.0230	33	PASS
2	9400	1880.0	HSDPA Subtest-2	15.86	13.46	0.0222	33	PASS
2	9262	1852.4	HSDPA Subtest-2	16.63	14.23	0.0265	33	PASS
2	9538	1907.6	HSDPA Subtest-3	15.57	13.17	0.0207	33	PASS
2	9400	1880.0	HSDPA Subtest-3	16.66	14.26	0.0267	33	PASS
2	9262	1852.4	HSDPA Subtest-3	15.60	13.20	0.0209	33	PASS
2	9538	1907.6	HSDPA Subtest-4	16.89	14.49	0.0281	33	PASS
2	9400	1880.0	HSDPA Subtest-4	16.70	14.30	0.0269	33	PASS
2	9262	1852.4	HSDPA Subtest-4	16.22	13.82	0.0241	33	PASS
2	9538	1907.6	HSUPA Subtest-1	16.19	13.79	0.0239	33	PASS
2	9400	1880.0	HSUPA Subtest-1	16.30	13.90	0.0245	33	PASS
2	9262	1852.4	HSUPA Subtest-1	16.77	14.37	0.0274	33	PASS
2	9538	1907.6	HSUPA Subtest-2	15.87	13.47	0.0222	33	PASS
2	9400	1880.0	HSUPA Subtest-2	16.89	14.49	0.0281	33	PASS
2	9262	1852.4	HSUPA Subtest-2	15.80	13.40	0.0219	33	PASS
2	9538	1907.6	HSUPA Subtest-3	16.71	14.31	0.0270	33	PASS
2	9400	1880.0	HSUPA Subtest-3	16.43	14.03	0.0253	33	PASS
2	9262	1852.4	HSUPA Subtest-3	15.99	13.59	0.0229	33	PASS
2	9538	1907.6	HSUPA Subtest-4	16.03	13.63	0.0231	33	PASS
2	9400	1880.0	HSUPA Subtest-4	15.96	13.56	0.0227	33	PASS
2	9262	1852.4	HSUPA Subtest-4	16.73	14.33	0.0271	33	PASS
2	9538	1907.6	HSUPA Subtest-5	15.72	13.32	0.0215	33	PASS
2	9400	1880.0	HSUPA Subtest-5	16.73	14.33	0.0271	33	PASS
2	9262	1852.4	HSUPA Subtest-5	15.64	13.24	0.0211	33	PASS
2	9538	1907.6	HSPA +	16.45	14.05	0.0254	33	PASS
2	9400	1880.0	HSPA +	16.47	14.07	0.0255	33	PASS
2	9262	1852.4	HSPA +	16.54	14.14	0.0259	33	PASS
5	4233	846.6	Voice	22.81	16.56	0.0453	38.45	PASS
5	4182	836.4	Voice	22.63	16.38	0.0435	38.45	PASS
5	4132	826.4	Voice	22.65	16.40	0.0437	38.45	PASS
5	4233	846.6	RMC	22.58	16.33	0.0430	38.45	PASS
5	4182	836.4	RMC	22.82	16.57	0.0454	38.45	PASS
5	4132	826.4	RMC	22.87	16.62	0.0459	38.45	PASS
5	4233	846.6	HSDPA Subtest-1	21.84	15.59	0.0362	38.45	PASS
5	4182	836.4	HSDPA Subtest-1	21.91	15.66	0.0368	38.45	PASS
5	4132	826.4	HSDPA Subtest-1	21.87	15.62	0.0365	38.45	PASS
5	4233	846.6	HSDPA Subtest-2	21.65	15.40	0.0347	38.45	PASS
5	4182	836.4	HSDPA Subtest-2	21.79	15.54	0.0358	38.45	PASS
5	4132	826.4	HSDPA Subtest-2	21.66	15.41	0.0348	38.45	PASS
5	4233	846.6	HSDPA Subtest-3	21.15	14.90	0.0309	38.45	PASS
5	4182	836.4	HSDPA Subtest-3	21.31	15.06	0.0321	38.45	PASS
5	4132	826.4	HSDPA Subtest-3	21.26	15.01	0.0317	38.45	PASS
5	4233	846.6	HSDPA Subtest-4	21.17	14.92	0.0310	38.45	PASS
5	4182	836.4	HSDPA Subtest-4	21.35	15.10	0.0324	38.45	PASS
5	4132	826.4	HSDPA Subtest-4	21.17	14.92	0.0310	38.45	PASS
5	4233	846.6	HSUPA Subtest-1	21.01	14.76	0.0299	38.45	PASS

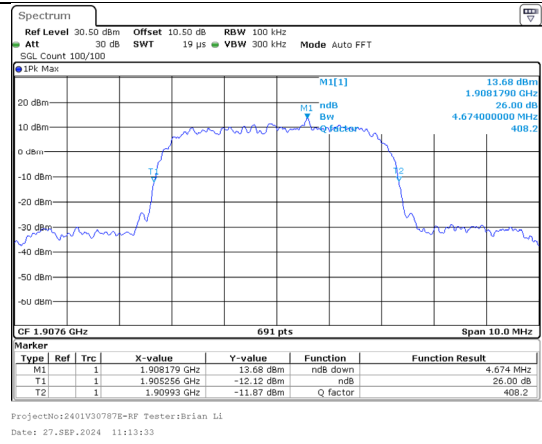
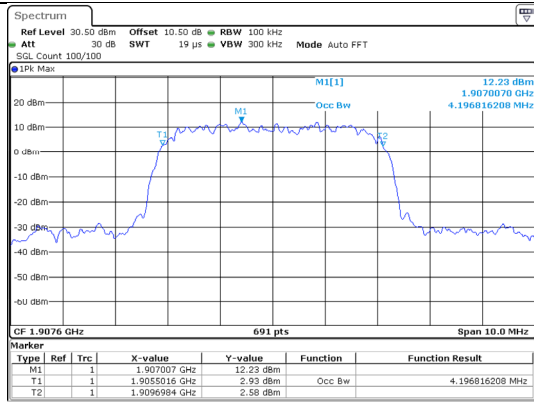
5	4182	836.4	HSUPA Subtest-1	21.79	15.54	0.0358	38.45	PASS
5	4132	826.4	HSUPA Subtest-1	21.56	15.31	0.0340	38.45	PASS
5	4233	846.6	HSUPA Subtest-2	21.72	15.47	0.0352	38.45	PASS
5	4182	836.4	HSUPA Subtest-2	21.81	15.56	0.0360	38.45	PASS
5	4132	826.4	HSUPA Subtest-2	21.76	15.51	0.0356	38.45	PASS
5	4233	846.6	HSUPA Subtest-3	21.16	14.91	0.0310	38.45	PASS
5	4182	836.4	HSUPA Subtest-3	21.30	15.05	0.0320	38.45	PASS
5	4132	826.4	HSUPA Subtest-3	21.24	14.99	0.0316	38.45	PASS
5	4233	846.6	HSUPA Subtest-4	21.75	15.50	0.0355	38.45	PASS
5	4182	836.4	HSUPA Subtest-4	21.89	15.64	0.0366	38.45	PASS
5	4132	826.4	HSUPA Subtest-4	21.82	15.57	0.0361	38.45	PASS
5	4233	846.6	HSUPA Subtest-5	21.21	14.96	0.0313	38.45	PASS
5	4182	836.4	HSUPA Subtest-5	21.31	15.06	0.0321	38.45	PASS
5	4132	826.4	HSUPA Subtest-5	21.23	14.98	0.0315	38.45	PASS
5	4233	846.6	HSPA +	22.45	16.20	0.0417	38.45	PASS
5	4182	836.4	HSPA +	22.76	16.51	0.0448	38.45	PASS
5	4132	826.4	HSPA +	22.65	16.40	0.0437	38.45	PASS
Note: The ERP is for below 1GHz, EIRP is for above 1GHz EIRP=Conducted Power(dBm) - L_c(dB) + G_T(dBi) ERP= Conducted Power(dBm) - L_c(dB) + G_T(dBd) G_T(dBd)=G_T(dBi)-2.15								

Peak to Average Ratio

Band	Channel	Freq (MHz)	Result (dB)	Limit (dB)	Verdict
2	9538	1907.6	3.07	13	PASS
2	9400	1880.0	3.13	13	PASS
2	9262	1852.4	3.10	13	PASS
5	4233	846.6	3.13	13	PASS
5	4182	836.4	3.16	13	PASS
5	4132	826.4	3.28	13	PASS

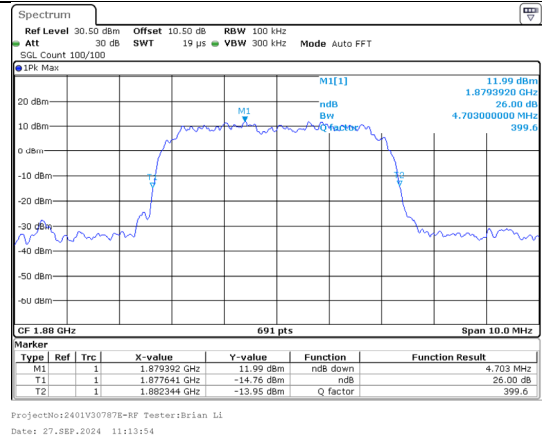
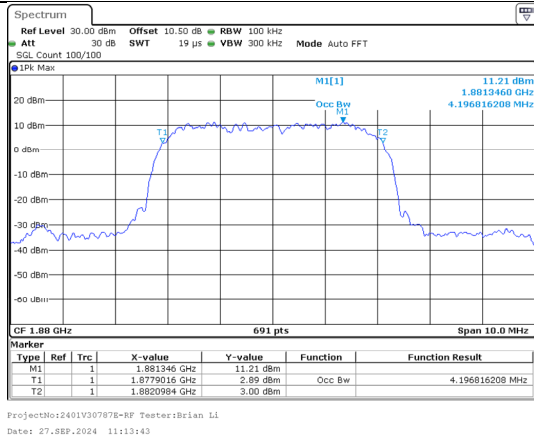
Occupied Bandwidth

Band	Channel	Freq (MHz)	OBW (MHz)	26dB BW (MHz)	Verdict
2	9538	1907.6	4.1968	4.674	PASS
2	9400	1880.0	4.1968	4.703	PASS
2	9262	1852.4	4.1823	4.703	PASS
5	4233	846.6	4.1679	4.718	PASS
5	4182	836.4	4.1823	4.703	PASS
5	4132	826.4	4.1823	4.674	PASS



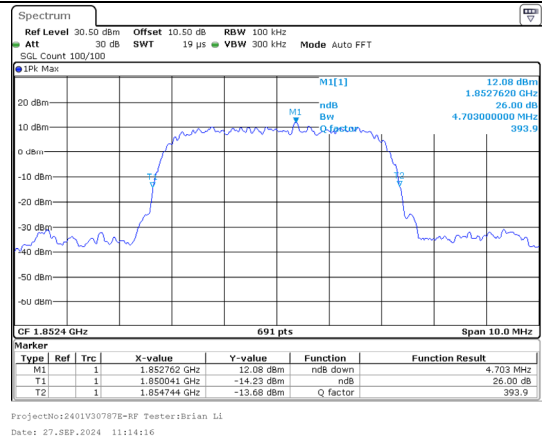
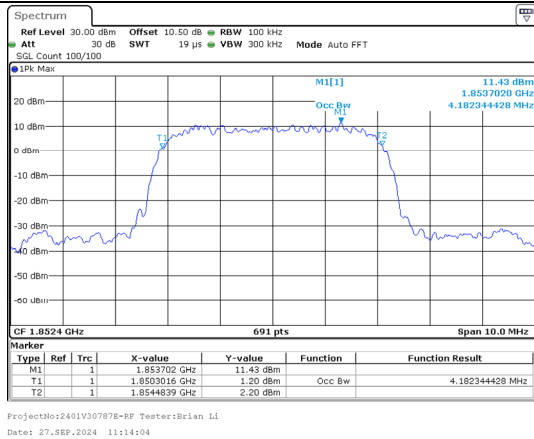
99%OBW
 Band 2 5MHz/1907.6/High

26%OBW
 Band 2 5MHz/1907.6/High



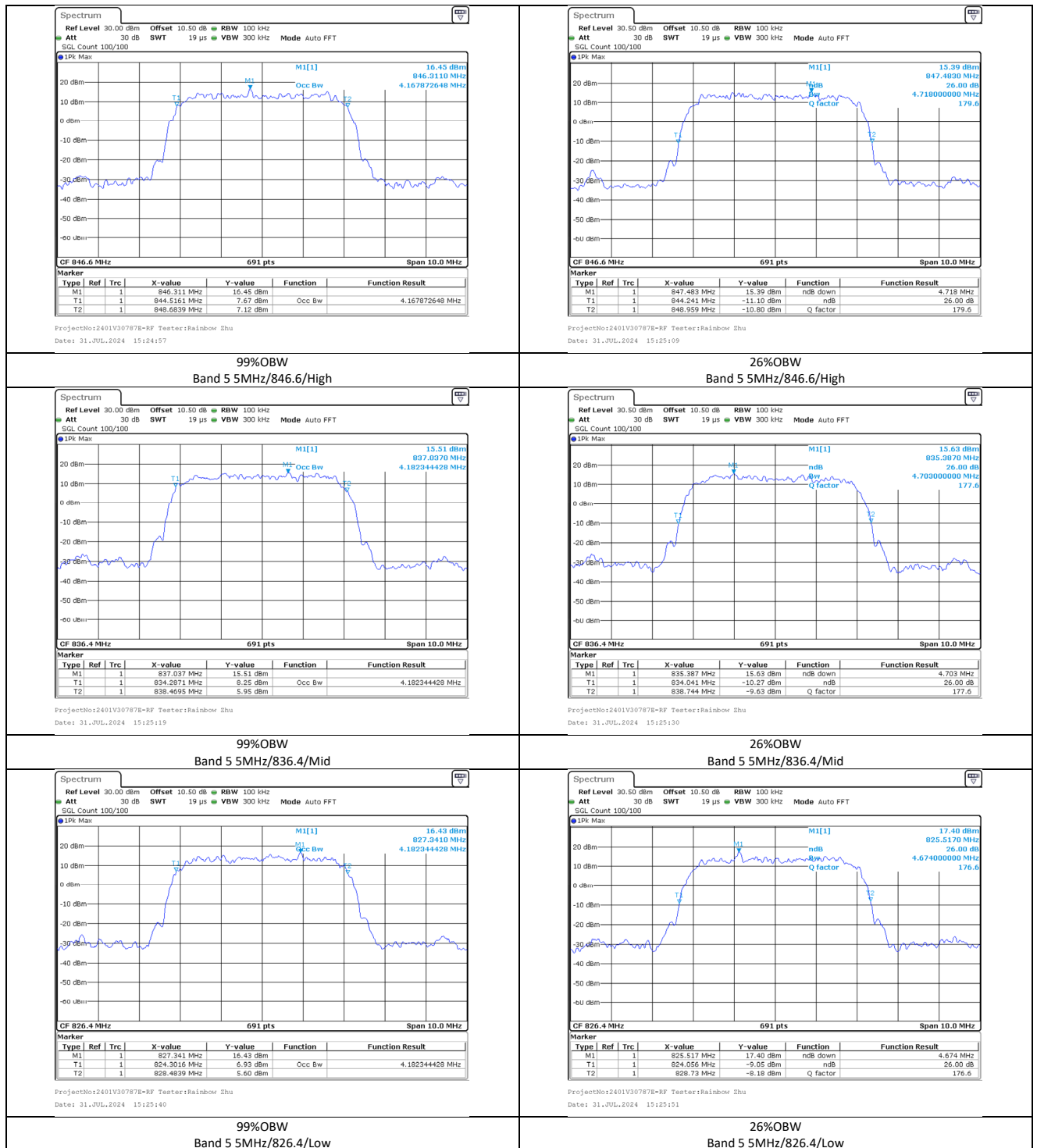
99%OBW
 Band 2 5MHz/1880.0/Mid

26%OBW
 Band 2 5MHz/1880.0/Mid



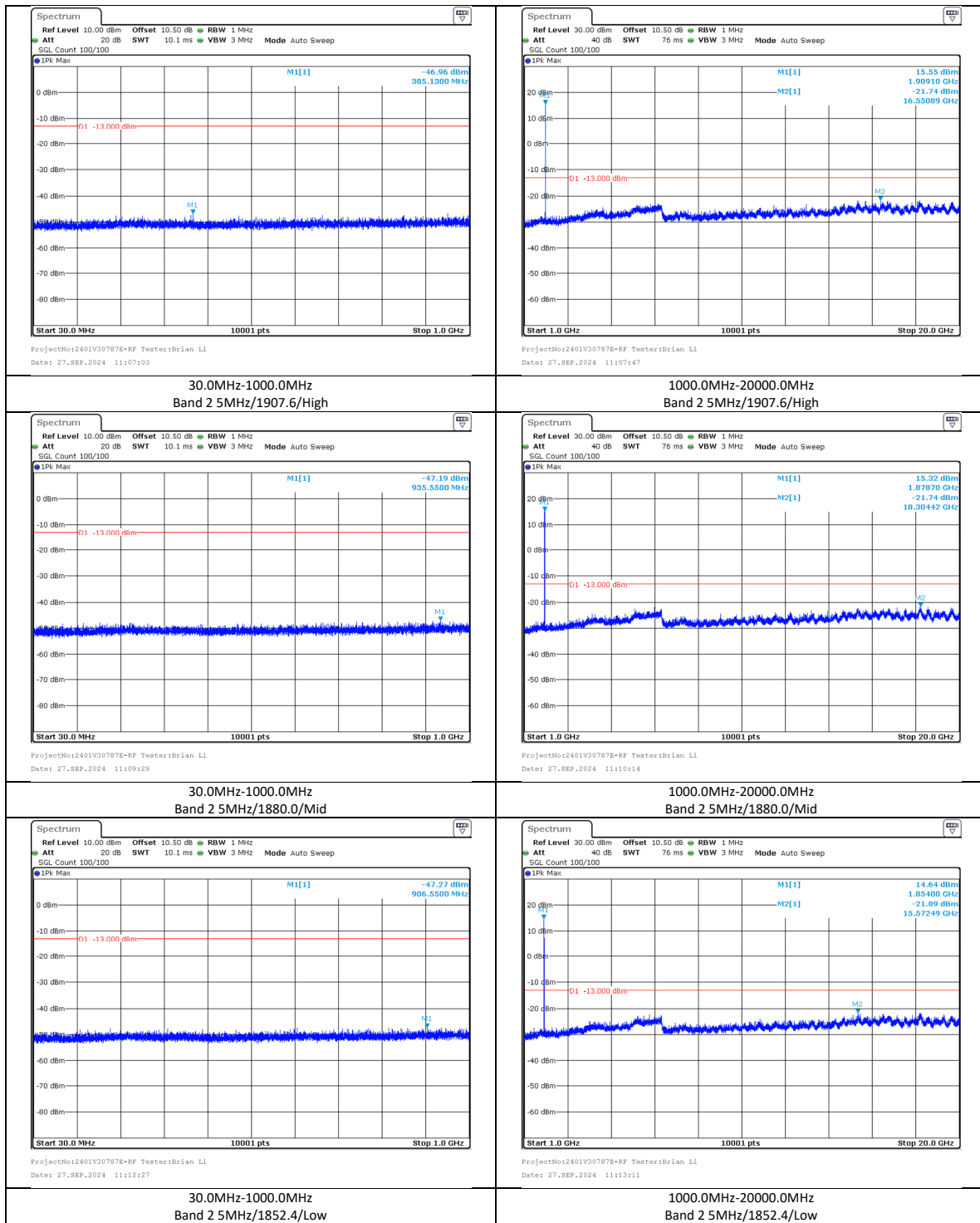
99%OBW
 Band 2 5MHz/1852.4/Low

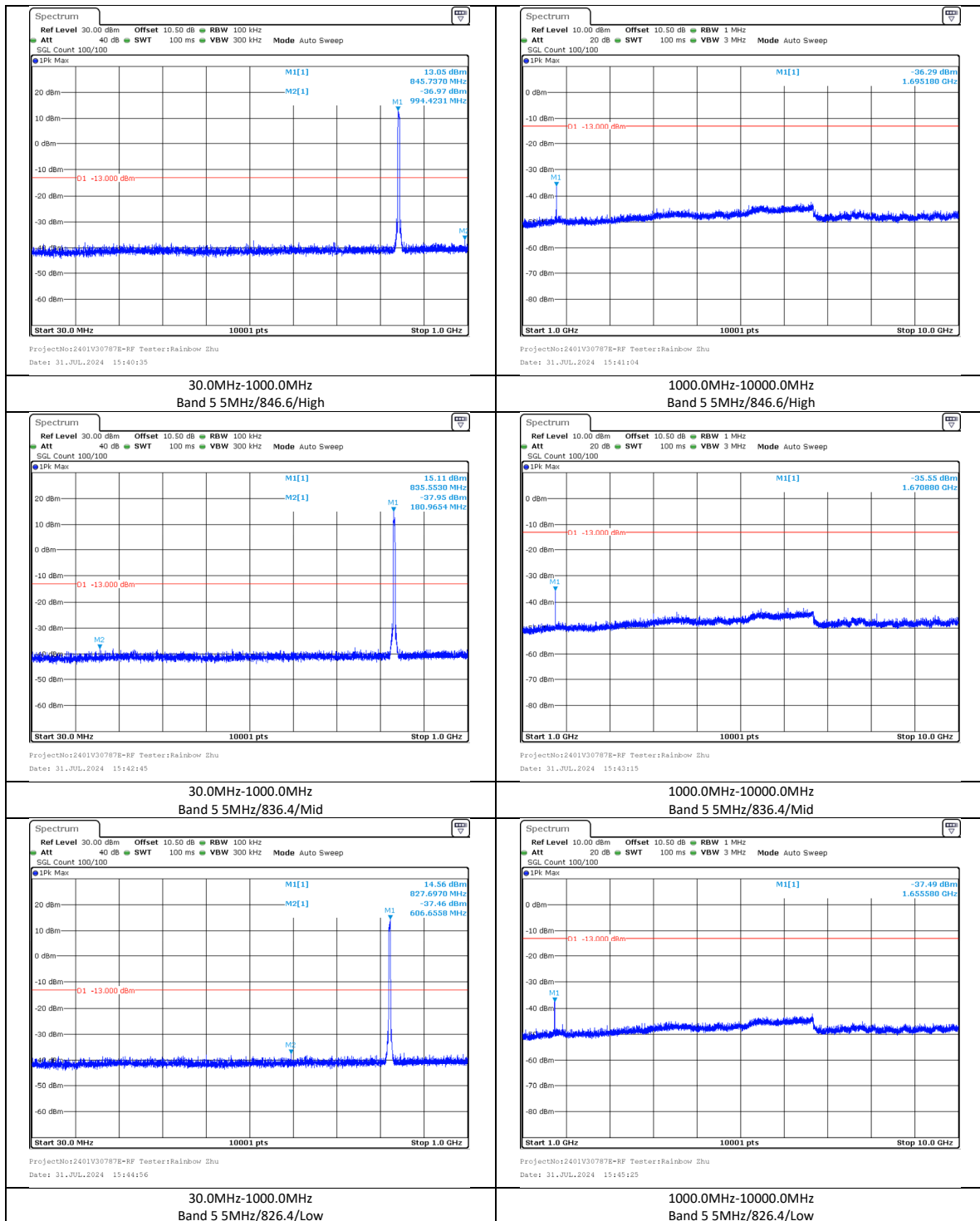
26%OBW
 Band 2 5MHz/1852.4/Low



Conducted Spurious Emissions

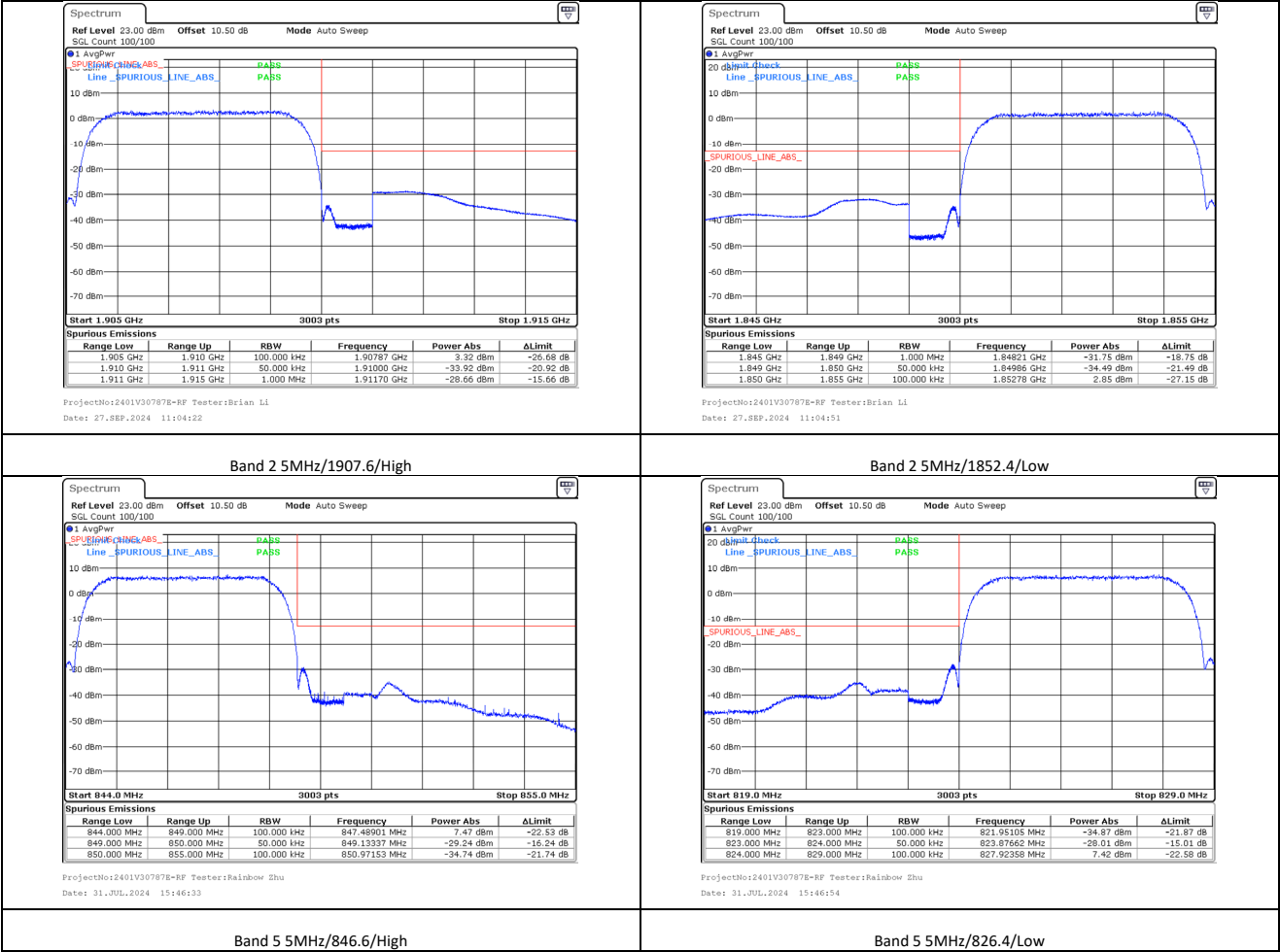
Band	Channel	Freq (MHz)	Start Freq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
2	9538	1907.6	30.0	1000.0	-46.96	-13	PASS
2	9538	1907.6	1000.0	20000.0	-21.74	-13	PASS
2	9400	1880.0	30.0	1000.0	-47.19	-13	PASS
2	9400	1880.0	1000.0	20000.0	-21.74	-13	PASS
2	9262	1852.4	30.0	1000.0	-47.19	-13	PASS
2	9262	1852.4	1000.0	20000.0	-21.74	-13	PASS
5	4233	846.6	30.0	1000.0	-36.97	-13	PASS
5	4233	846.6	1000.0	10000.0	-36.29	-13	PASS
5	4182	836.4	30.0	1000.0	-37.95	-13	PASS
5	4182	836.4	1000.0	10000.0	-35.55	-13	PASS
5	4132	826.4	30.0	1000.0	-37.46	-13	PASS
5	4132	826.4	1000.0	10000.0	-37.49	-13	PASS





Conducted Band Edge

Band	Channel	Freq (MHz)	Result	Verdict
2	9538	1907.6	see graph	PASS
2	9262	1852.4	see graph	PASS
5	4233	846.6	see graph	PASS
5	4132	826.4	see graph	PASS



Frequency Stability

Band 2

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.80	1850.115	1850.000	1909.848	1910.000
	-20	3.80	1850.116	1850.000	1909.934	1910.000
	-10	3.80	1850.131	1850.000	1909.944	1910.000
	0	3.80	1850.147	1850.000	1909.863	1910.000
	10	3.80	1850.162	1850.000	1909.818	1910.000
	20	3.80	1850.084	1850.000	1909.951	1910.000
	30	3.80	1850.124	1850.000	1909.825	1910.000
	40	3.80	1850.076	1850.000	1909.998	1910.000
	50	3.80	1850.131	1850.000	1909.808	1910.000
Frequency Stability vs. Voltage	20	3.42	1850.190	1850.000	1909.879	1910.000
	20	4.35	1850.120	1850.000	1909.831	1910.000
					Result:	Pass

Band 5

Test Modulation:	WCDMA R99		Test Channel:	836.4	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.80	7.58	0.009	2.5
	-20	3.80	7.45	0.009	2.5
	-10	3.80	7.25	0.009	2.5
	0	3.80	7.41	0.009	2.5
	10	3.80	6.92	0.008	2.5
	20	3.80	6.89	0.008	2.5
	30	3.80	6.59	0.008	2.5
	40	3.80	6.69	0.008	2.5
	50	3.80	6.23	0.007	2.5
Frequency Stability vs. Voltage	20	3.42	7.56	0.009	2.5
	20	4.35	7.95	0.010	2.5
				Result:	Pass