

Appendix for WCDMA B4

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1 Appendix A: Effective Radiated Result Output Data**1.1 Test Result**

Ant13

Band	Channel	Result (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
WCDMA BAND 4	1312	24.28	22.18	30	PASS
WCDMA BAND 4	1413	24.09	21.99	30	PASS
WCDMA BAND 4	1513	24.04	21.94	30	PASS

Ant13

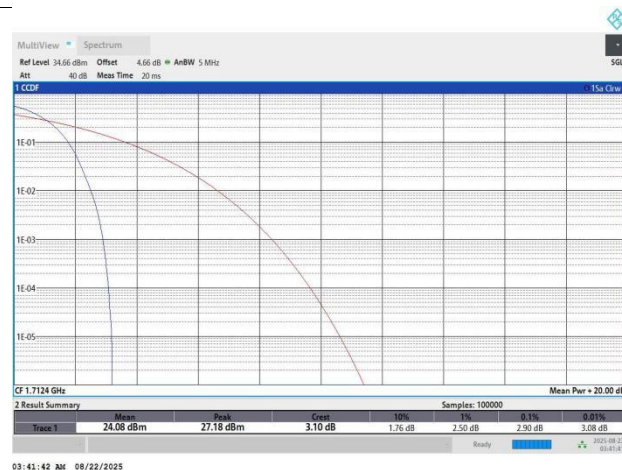
Band	Channel	Subset	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
HSDPA BAND 4	1312	SubTest1	23.43	21.33	30	PASS
HSDPA BAND 4	1312	SubTest2	23.31	21.21	30	PASS
HSDPA BAND 4	1312	SubTest3	22.77	20.67	30	PASS
HSDPA BAND 4	1312	SubTest4	22.9	20.8	30	PASS
HSDPA BAND 4	1413	SubTest1	23.38	21.28	30	PASS
HSDPA BAND 4	1413	SubTest2	23.38	21.28	30	PASS
HSDPA BAND 4	1413	SubTest3	22.87	20.77	30	PASS
HSDPA BAND 4	1413	SubTest4	22.89	20.79	30	PASS
HSDPA BAND 4	1513	SubTest1	23.37	21.27	30	PASS
HSDPA BAND 4	1513	SubTest2	23.37	21.27	30	PASS
HSDPA BAND 4	1513	SubTest3	22.7	20.6	30	PASS
HSDPA BAND 4	1513	SubTest4	22.9	20.8	30	PASS
HSUPA BAND 4	1312	SubTest1	23.42	21.32	30	PASS
HSUPA BAND 4	1312	SubTest2	21.39	19.29	30	PASS
HSUPA BAND 4	1312	SubTest3	22.4	20.3	30	PASS
HSUPA BAND 4	1312	SubTest4	21.41	19.31	30	PASS
HSUPA BAND 4	1312	SubTest5	23.4	21.3	30	PASS
HSUPA BAND 4	1413	SubTest1	23.39	21.29	30	PASS
HSUPA BAND 4	1413	SubTest2	21.4	19.3	30	PASS
HSUPA BAND 4	1413	SubTest3	22.37	20.27	30	PASS
HSUPA BAND 4	1413	SubTest4	21.4	19.3	30	PASS
HSUPA BAND 4	1413	SubTest5	23.41	21.31	30	PASS
HSUPA BAND 4	1513	SubTest1	23.35	21.25	30	PASS
HSUPA BAND 4	1513	SubTest2	21.37	19.27	30	PASS
HSUPA BAND 4	1513	SubTest3	22.36	20.26	30	PASS
HSUPA BAND 4	1513	SubTest4	21.39	19.29	30	PASS
HSUPA BAND 4	1513	SubTest5	23.39	21.29	30	PASS

2 Appendix B: Peak-to-Average Ratio

2.1 Test Result

Band	Channel	Result(dBm)	Limit(dB)	Verdict
WCDMA BAND 4	1312	2.9	13	PASS
WCDMA BAND 4	1413	2.9	13	PASS
WCDMA BAND 4	1513	2.8	13	PASS

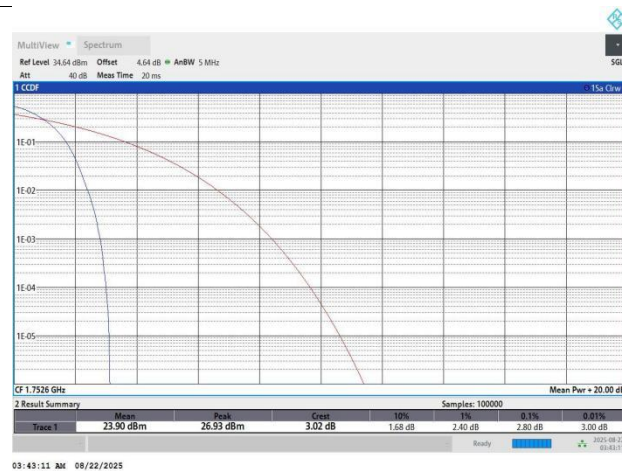
2.2 Test Plots



WCDMA BAND 4-1312-2.9-13-PASS



WCDMA BAND 4-1413-2.82-13-PASS



WCDMA BAND 4-1513-2.8-13-PASS

3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHZ)	Verdict
WCDMA BAND 4	1312	4.16	4.71	---	See graph
WCDMA BAND 4	1413	4.15	4.74	---	See graph
WCDMA BAND 4	1513	4.15	4.72	---	See graph

3.2 Test Plots



WCDMA BAND 4-1312-4.16-4.71----



WCDMA BAND 4-1312-4.16-4.71----



WCDMA BAND 4-1413-4.15-4.74----



WCDMA BAND 4-1413-4.15-4.74----



03:42:44 AM 08/22/2025

WCDMA BAND 4-1513-4.15-4.72----



03:43:01 AM 08/22/2025

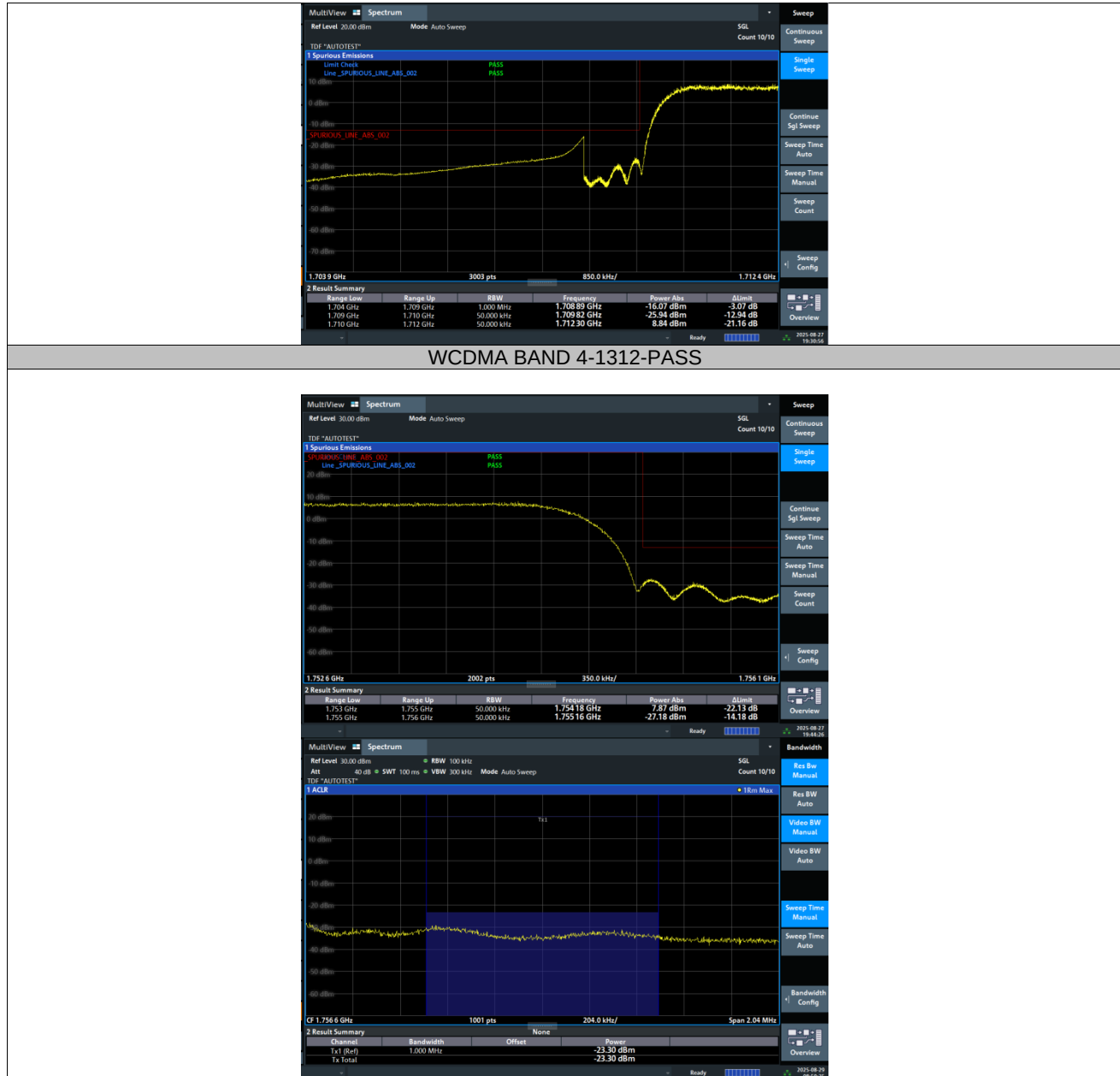
WCDMA BAND 4-1513-4.15-4.72----

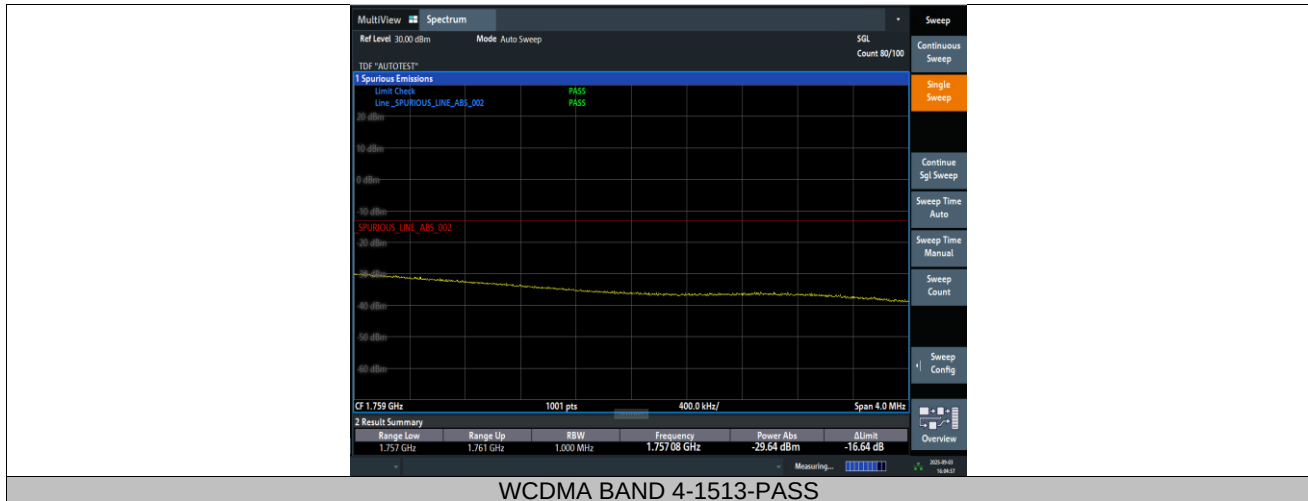
4 Appendix D: Band Edge

4.1 Test Result

Band	Channel	Result	Verdict
WCDMA BAND 4	1312	See graph	PASS
WCDMA BAND 4	1513	See graph	PASS

4.2 Test Plots



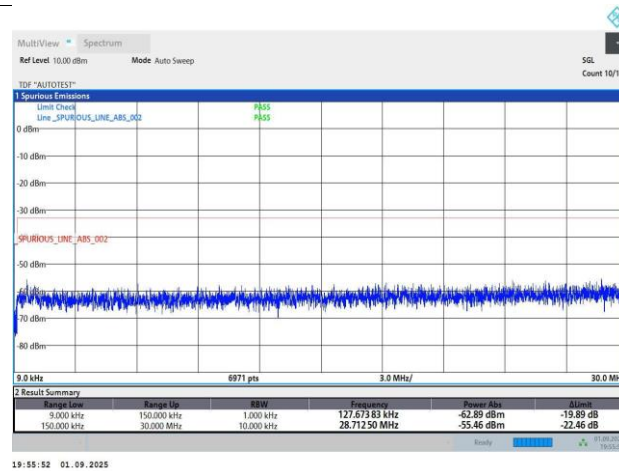


5 Appendix E: Conducted Spurious Emission

5.1 Test Result

Band	Channel	Result	Verdict
WCDMA BAND 4	1312	See graph	PASS
WCDMA BAND 4	1413	See graph	PASS
WCDMA BAND 4	1513	See graph	PASS

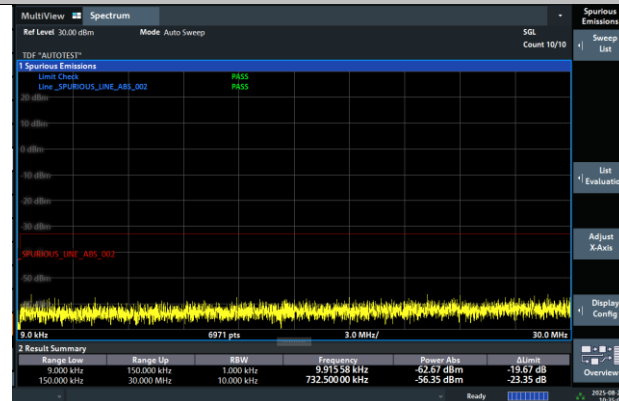
5.2 Test Plots



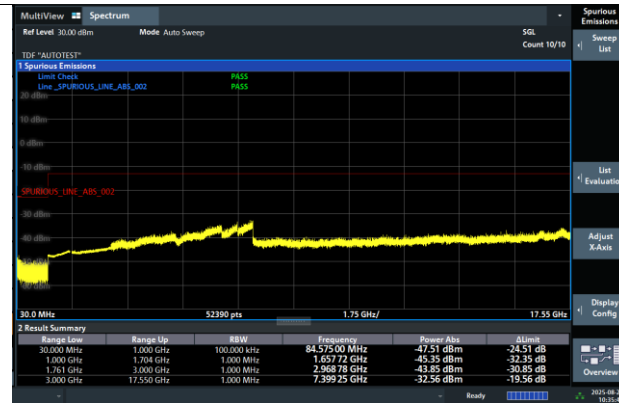
WCDMA BAND 4-1312-PASS



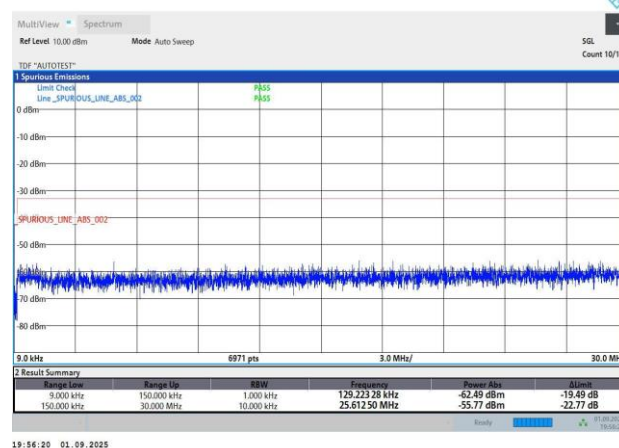
WCDMA BAND 4-1312-PASS



WCDMA BAND 4-1413-PASS



WCDMA BAND 4-1413-PASS



19:56:20 01.09.2025

WCDMA BAND 4-1513-PASS



19:56:36 01.09.2025

WCDMA BAND 4-1513-PASS

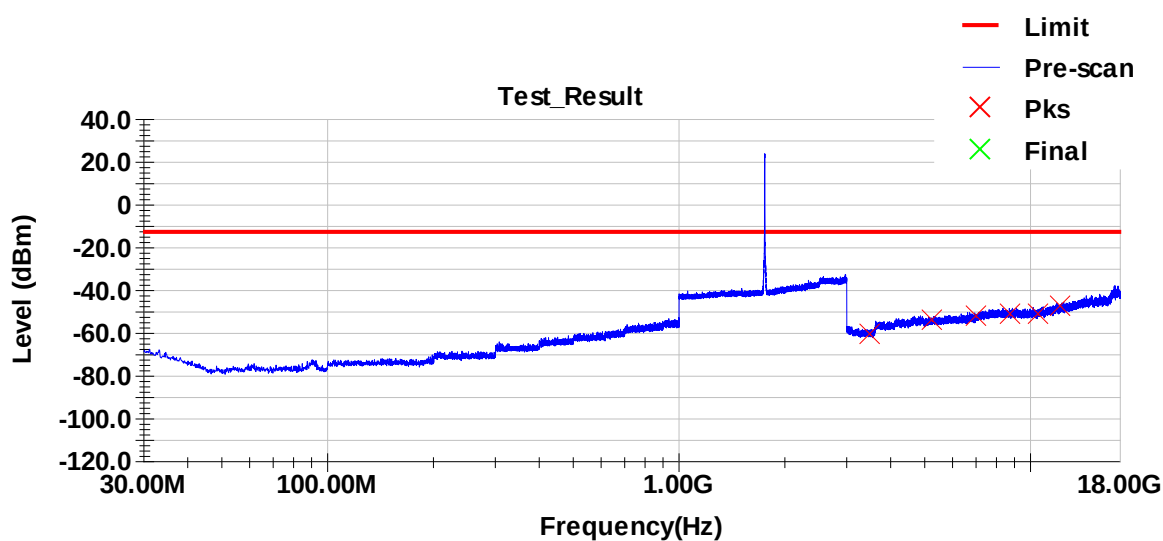
6 Appendix F: Radiated spurious emissions

Remark:

- The pre-tests cover all operation mode of EUT and the test reports show only the worst.
- If the margin is greater than 10dB, it is considered to meet the standard and no further test is conducted.
- The part of the graph that exceeds the limit is RF fundamental frequency and it should be excluded against the limits.

6.1 Test Result

The worst mode: WCDMA BAND 4_LINK/ANT 31-Mid



Frequency (MHz)	Measure Level(dBuV)	Factor	EIRP_CF	EIRP Result(dBm)	Limit (dBm)	Margin (dB)	Pol
3505.200	47.35	-12.98	-95.200	-60.83	-13.00	47.83	V
5257.800	47.02	-6.29	-95.200	-54.47	-13.00	41.47	V
7010.400	46.54	-3.91	-95.200	-52.57	-13.00	39.57	V
8763.000	44.93	-1.47	-95.200	-51.74	-13.00	38.74	V
10515.600	44.16	0.08	-95.200	-51.49	-13.00	38.49	V
12268.200	45.41	2.39	-95.200	-47.40	-13.00	34.40	V

7 Appendix G: Frequency Stability

7.1 Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	deviation (Hz)	deviation (ppm)	Limit(ppm)	Verdict
WCDMA BAND 4	1312	NV	NT	-3.2	-0.001869	±2.5	PASS
WCDMA BAND 4	1312	LV	NT	-6.0	-0.003504	±2.5	PASS
WCDMA BAND 4	1312	HV	NT	-9.9	-0.005781	±2.5	PASS
WCDMA BAND 4	1413	NV	NT	-0.7	-0.000404	±2.5	PASS
WCDMA BAND 4	1413	LV	NT	-4.3	-0.002482	±2.5	PASS
WCDMA BAND 4	1413	HV	NT	-3.0	-0.001732	±2.5	PASS
WCDMA BAND 4	1513	NV	NT	9.1	0.005192	±2.5	PASS
WCDMA BAND 4	1513	LV	NT	-3.5	-0.001997	±2.5	PASS
WCDMA BAND 4	1513	HV	NT	-18.4	-0.010499	±2.5	PASS

Band	Channel	Voltage (Vdc)	Temperature (°C)	deviation (Hz)	deviation (ppm)	Limit(ppm)	Verdict
WCDMA BAND 4	1312	NV	-30	-2.4	-0.001402	±2.5	PASS
WCDMA BAND 4	1312	NV	-20	-6.1	-0.003562	±2.5	PASS
WCDMA BAND 4	1312	NV	-10	-9.9	-0.005781	±2.5	PASS
WCDMA BAND 4	1312	NV	0	9.9	0.005781	±2.5	PASS
WCDMA BAND 4	1312	NV	10	-2.5	-0.001460	±2.5	PASS
WCDMA BAND 4	1312	NV	20	-18.9	-0.011037	±2.5	PASS
WCDMA BAND 4	1312	NV	30	0.4	0.000234	±2.5	PASS
WCDMA BAND 4	1312	NV	40	-1.3	-0.000759	±2.5	PASS
WCDMA BAND 4	1312	NV	50	-3.0	-0.001752	±2.5	PASS
WCDMA BAND 4	1413	NV	-30	8.5	0.004906	±2.5	PASS
WCDMA BAND 4	1413	NV	-20	4.8	0.002770	±2.5	PASS
WCDMA BAND 4	1413	NV	-10	2.9	0.001674	±2.5	PASS
WCDMA BAND 4	1413	NV	0	-0.7	-0.000404	±2.5	PASS
WCDMA BAND 4	1413	NV	10	-2.4	-0.001385	±2.5	PASS
WCDMA BAND 4	1413	NV	20	-3.6	-0.002078	±2.5	PASS
WCDMA BAND 4	1413	NV	30	-2.9	-0.001674	±2.5	PASS
WCDMA BAND 4	1413	NV	40	-2.5	-0.001443	±2.5	PASS
WCDMA BAND 4	1413	NV	50	1.2	0.000693	±2.5	PASS
WCDMA BAND 4	1513	NV	-30	-2.5	-0.001426	±2.5	PASS
WCDMA BAND 4	1513	NV	-20	-5.8	-0.003309	±2.5	PASS

WCDMA BAND 4	1513	NV	-10	-9.0	-0.005135	±2.5	PASS
WCDMA BAND 4	1513	NV	0	9.2	0.005249	±2.5	PASS
WCDMA BAND 4	1513	NV	10	-2.4	-0.001369	±2.5	PASS
WCDMA BAND 4	1513	NV	20	-18.5	-0.010556	±2.5	PASS
WCDMA BAND 4	1513	NV	30	0.9	0.000514	±2.5	PASS
WCDMA BAND 4	1513	NV	40	-1.2	-0.000685	±2.5	PASS
WCDMA BAND 4	1513	NV	50	-3.3	-0.001883	±2.5	PASS

END