

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Type	Channel	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	TestMode	9262	23.16	20.86	33.01	PASS
Band2	Voice	9262	23.22	20.92	33.01	PASS
Band2	TestMode	9400	23.60	21.3	33.01	PASS
Band2	Voice	9400	23.77	21.47	33.01	PASS
Band2	TestMode	9538	23.76	21.46	33.01	PASS
Band2	Voice	9538	23.78	21.48	33.01	PASS
Band4	Voice	1312	23.2	20.77	30.00	PASS
Band4	TestMode	1312	23.26	20.83	30.00	PASS
Band4	Voice	1413	23.16	20.73	30.00	PASS
Band4	TestMode	1413	23.24	20.81	30.00	PASS
Band4	TestMode	1513	23.63	21.2	30.00	PASS
Band4	Voice	1513	23.6	21.17	30.00	PASS
Band5	Voice	4132	23.54	16.54	38.45	PASS
Band5	TestMode	4132	23.51	16.51	38.45	PASS
Band5	TestMode	4183	23.86	16.86	38.45	PASS
Band5	Voice	4183	23.88	16.88	38.45	PASS
Band5	TestMode	4233	24.11	17.11	38.45	PASS
Band5	Voice	4233	24.15	17.15	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	23.06	20.76	33.01	PASS
Band2	9262	2	22.77	20.47	33.01	PASS
Band2	9262	3	22.62	20.32	33.01	PASS
Band2	9262	4	22.65	20.35	33.01	PASS
Band2	9400	1	23.00	20.7	33.01	PASS
Band2	9400	2	22.79	20.49	33.01	PASS
Band2	9400	3	22.58	20.28	33.01	PASS
Band2	9400	4	22.69	20.39	33.01	PASS
Band2	9538	1	23.06	20.76	33.01	PASS
Band2	9538	2	22.81	20.51	33.01	PASS
Band2	9538	3	22.71	20.41	33.01	PASS
Band2	9538	4	22.72	20.42	33.01	PASS
Band4	1312	1	22.22	19.79	30.00	PASS

Band4	1312	2	22.46	20.03	30.00	PASS
Band4	1312	3	22.47	20.04	30.00	PASS
Band4	1312	4	22.51	20.08	30.00	PASS
Band4	1413	1	22.65	20.22	30.00	PASS
Band4	1413	2	22.81	20.38	30.00	PASS
Band4	1413	3	22.8	20.37	30.00	PASS
Band4	1413	4	22.79	20.36	30.00	PASS
Band4	1513	1	21.98	19.55	30.00	PASS
Band4	1513	2	22.15	19.72	30.00	PASS
Band4	1513	3	22.22	19.79	30.00	PASS
Band4	1513	4	22.26	19.83	30.00	PASS
Band5	4132	1	22.85	15.85	38.5	PASS
Band5	4132	2	22.61	15.61	38.5	PASS
Band5	4132	3	22.03	15.03	38.5	PASS
Band5	4132	4	22.07	15.07	38.5	PASS
Band5	4183	1	22.62	15.62	38.5	PASS
Band5	4183	2	22.42	15.42	38.5	PASS
Band5	4183	3	22.05	15.05	38.5	PASS
Band5	4183	4	22.02	15.02	38.5	PASS
Band5	4233	1	22.79	15.79	38.5	PASS
Band5	4233	2	22.53	15.53	38.5	PASS
Band5	4233	3	22.16	15.16	38.5	PASS
Band5	4233	4	22.19	15.19	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.79	18.49	33.01	PASS
Band2	9262	2	21.58	19.28	33.01	PASS
Band2	9262	3	21.30	19	33.01	PASS
Band2	9262	4	21.67	19.37	33.01	PASS
Band2	9262	5	23.19	20.89	33.01	PASS
Band2	9400	1	21.13	18.83	33.01	PASS
Band2	9400	2	21.68	19.38	33.01	PASS
Band2	9400	3	21.38	19.08	33.01	PASS
Band2	9400	4	21.78	19.48	33.01	PASS
Band2	9400	5	23.16	20.86	33.01	PASS
Band2	9538	1	21.16	18.86	33.01	PASS
Band2	9538	2	21.57	19.27	33.01	PASS
Band2	9538	3	21.40	19.1	33.01	PASS
Band2	9538	4	21.76	19.46	33.01	PASS

Band2	9538	5	23.14	20.84	33.01	PASS
Band4	1312	1	22.27	19.84	30.00	PASS
Band4	1312	2	22.48	20.05	30.00	PASS
Band4	1312	3	22.18	19.75	30.00	PASS
Band4	1312	4	22.57	20.14	30.00	PASS
Band4	1312	5	22.62	20.19	30.00	PASS
Band4	1413	1	22.7	20.27	30.00	PASS
Band4	1413	2	22.8	20.37	30.00	PASS
Band4	1413	3	22.55	20.12	30.00	PASS
Band4	1413	4	22.85	20.42	30.00	PASS
Band4	1413	5	22.89	20.46	30.00	PASS
Band4	1513	1	22.18	19.75	30.00	PASS
Band4	1513	2	22.45	20.02	30.00	PASS
Band4	1513	3	22.15	19.72	30.00	PASS
Band4	1513	4	22.6	20.17	30.00	PASS
Band4	1513	5	22.35	19.92	30.00	PASS
Band5	4132	1	20.76	13.76	38.5	PASS
Band5	4132	2	20.97	13.97	38.5	PASS
Band5	4132	3	20.7	13.7	38.5	PASS
Band5	4132	4	20.53	13.53	38.5	PASS
Band5	4132	5	23.04	16.04	38.5	PASS
Band5	4183	1	20.96	13.96	38.5	PASS
Band5	4183	2	21.14	14.14	38.5	PASS
Band5	4183	3	21.58	14.58	38.5	PASS
Band5	4183	4	20.69	13.69	38.5	PASS
Band5	4183	5	23.05	16.05	38.5	PASS
Band5	4233	1	21.19	14.19	38.5	PASS
Band5	4233	2	21.35	14.35	38.5	PASS
Band5	4233	3	21.09	14.09	38.5	PASS
Band5	4233	4	20.91	13.91	38.5	PASS
Band5	4233	5	23.23	16.23	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band 2 & 4)
 ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

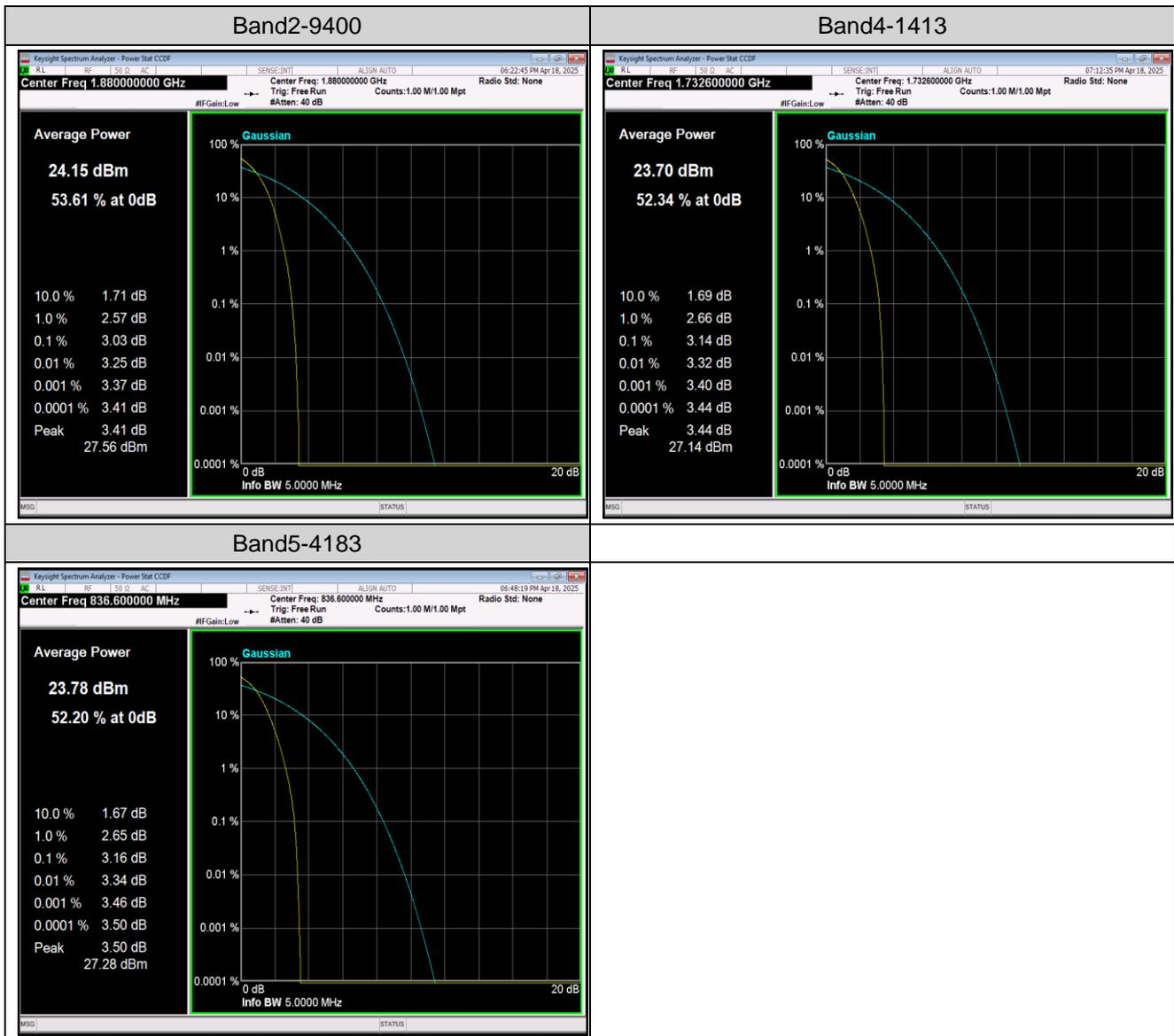
Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.03	13	PASS
Band4	1413	3.14	13	PASS
Band5	4183	3.16	13	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs(WCDMA)



AppendixC:26dB Bandwidth andOccupied Bandwidth**Test Result(WCDMA)**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1444	4.675	---	PASS
Band2	9400	4.1442	4.662	---	PASS
Band2	9538	4.1456	4.666	---	PASS
Band4	1312	4.1515	4.651	---	PASS
Band4	1413	4.1482	4.659	---	PASS
Band4	1513	4.1543	4.649	---	PASS
Band5	4132	4.1484	4.666	---	PASS
Band5	4183	4.1556	4.662	---	PASS
Band5	4233	4.1477	4.666	---	PASS

Test Graphs(WCDMA)





AppendixD:Band Edge**Test Result(WCDMA)**

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-23.43	-13	PASS
Band2	9538	1910.00	-22.68	-13	PASS
Band4	1312	1710.00	-24.30	-13	PASS
Band4	1513	1755.00	-24.78	-13	PASS
Band5	4132	824.00	-22.91	-13	PASS
Band5	4233	849.00	-23.02	-13	PASS

Test Graphs(WCDMA)

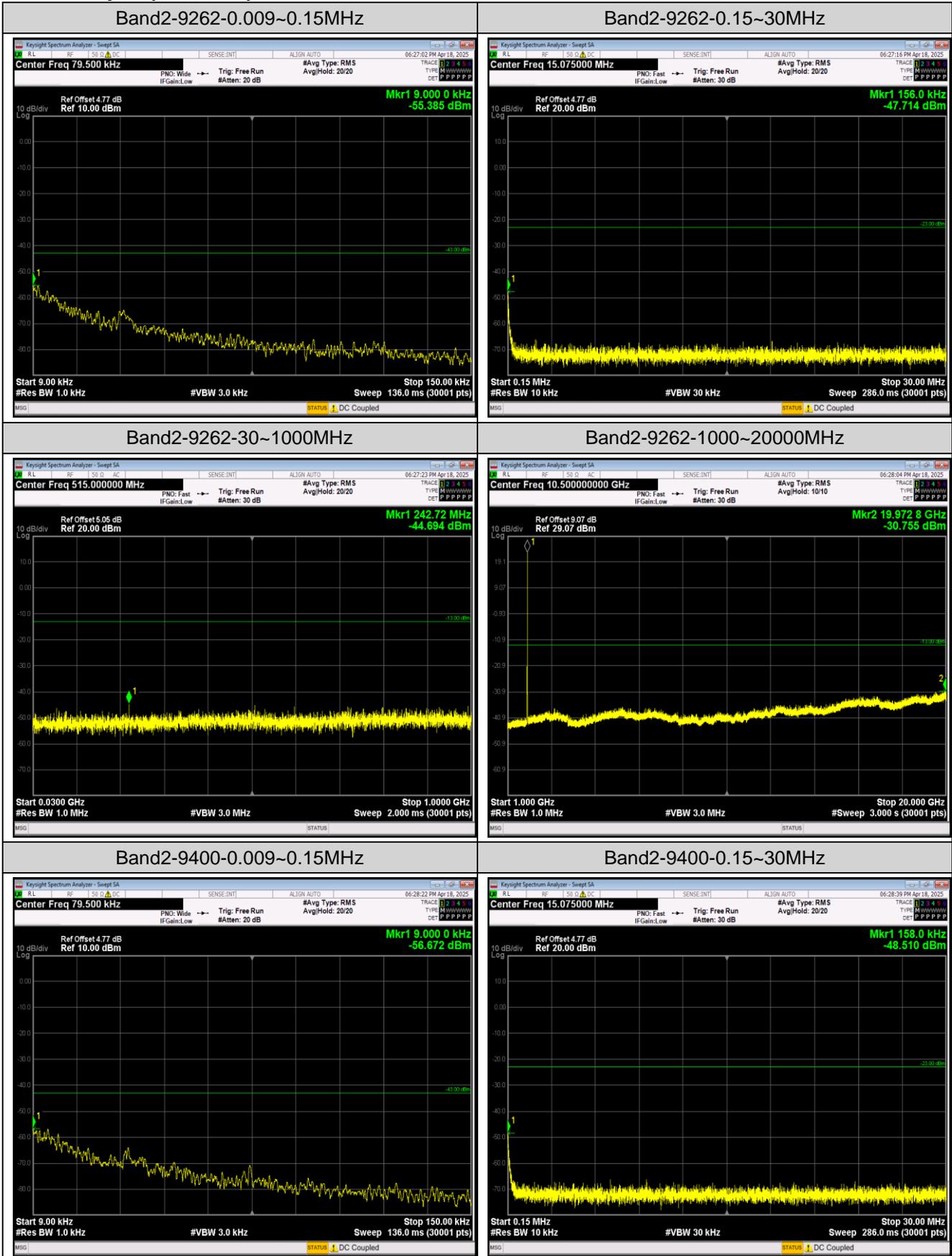


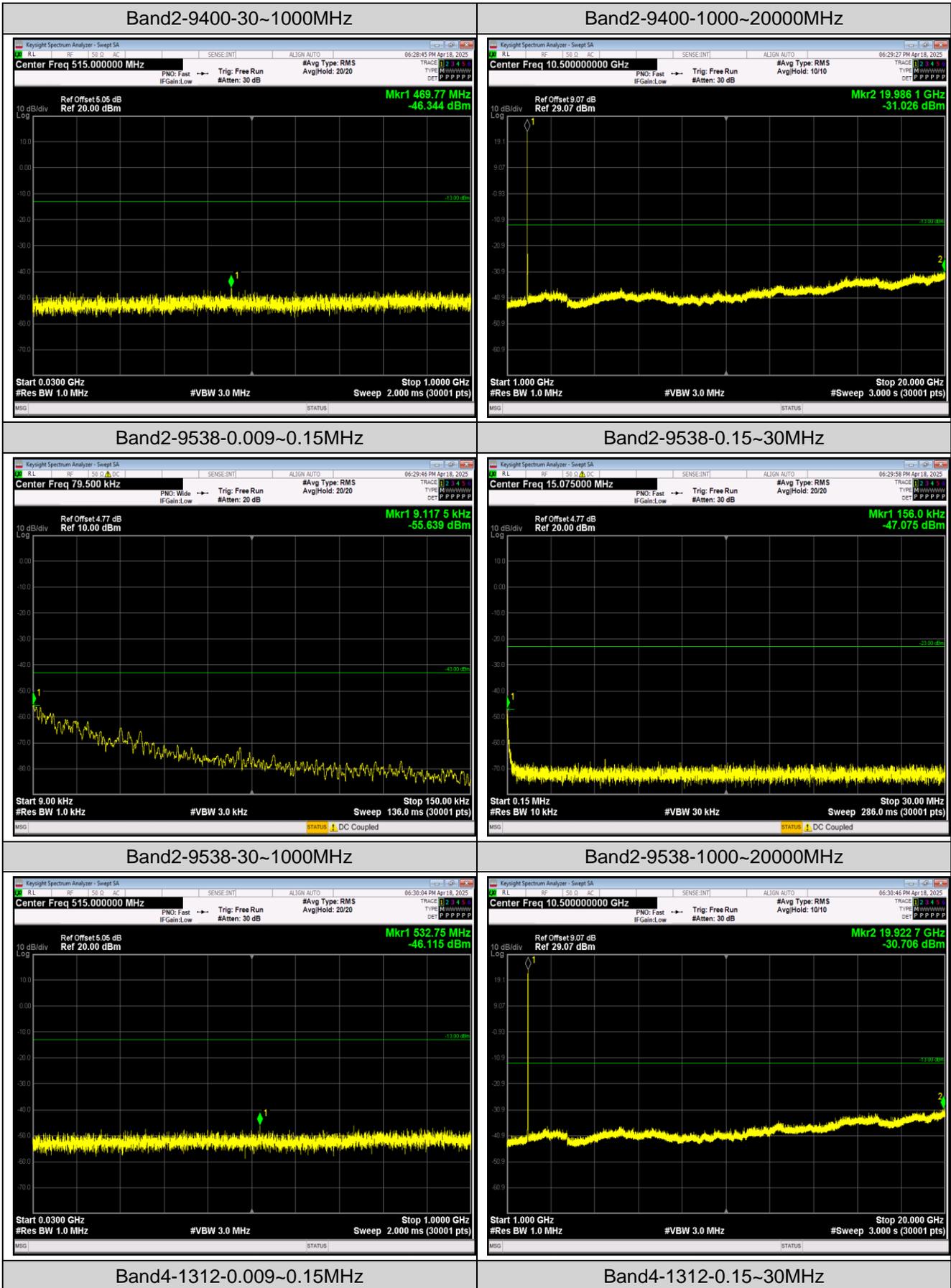
Appendix E: Conducted Spurious Emission

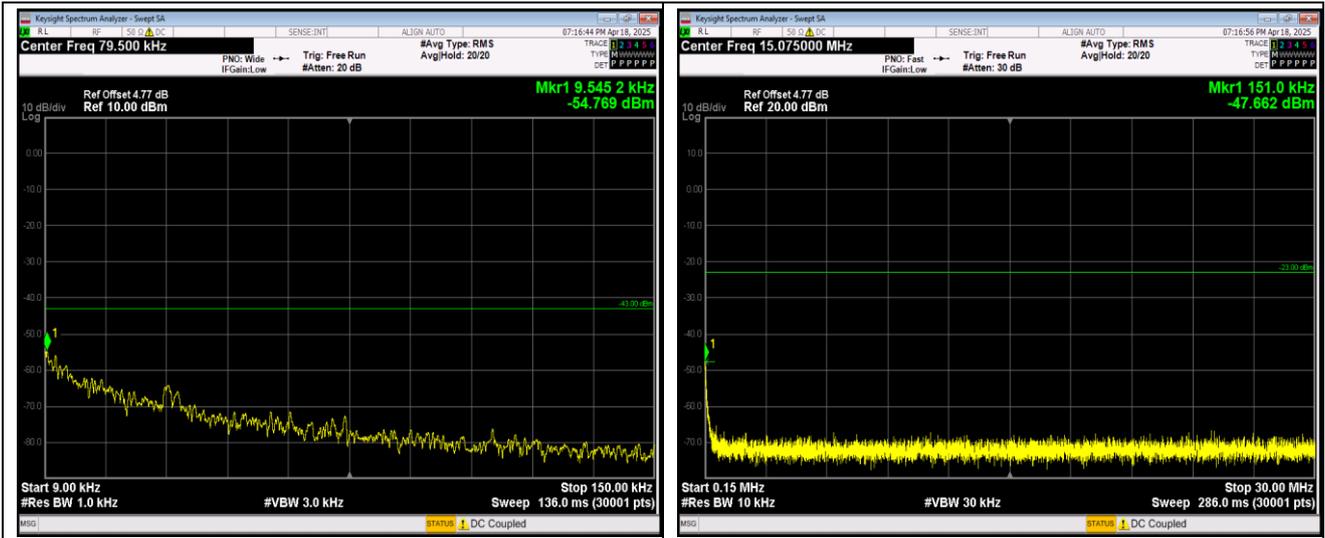
Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.39	-43	PASS
Band2	9262	0.15~30MHz	0.16	-47.71	-23	PASS
Band2	9262	30~1000MHz	242.72	-44.69	-13	PASS
Band2	9262	1000~20000MHz	19972.77	-30.76	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.67	-43	PASS
Band2	9400	0.15~30MHz	0.16	-48.51	-23	PASS
Band2	9400	30~1000MHz	469.77	-46.34	-13	PASS
Band2	9400	1000~20000MHz	19986.07	-31.03	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-55.64	-43	PASS
Band2	9538	0.15~30MHz	0.16	-47.08	-23	PASS
Band2	9538	30~1000MHz	532.75	-46.12	-13	PASS
Band2	9538	1000~20000MHz	19922.73	-30.71	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-54.77	-43	PASS
Band4	1312	0.15~30MHz	0.15	-47.66	-23	PASS
Band4	1312	30~1000MHz	599.33	-44.99	-13	PASS
Band4	1312	1000~20000MHz	19950.6	-30.29	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-55.51	-43	PASS
Band4	1413	0.15~30MHz	0.15	-47.29	-23	PASS
Band4	1413	30~1000MHz	811.5	-45.12	-13	PASS
Band4	1413	1000~20000MHz	19878.4	-30.43	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-53.57	-43	PASS
Band4	1513	0.15~30MHz	0.15	-47.51	-23	PASS
Band4	1513	30~1000MHz	494.47	-45.04	-13	PASS
Band4	1513	1000~20000MHz	19911.33	-30.38	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.9	-33	PASS
Band5	4132	0.15~30MHz	0.15	-46.09	-13	PASS
Band5	4132	30~1000MHz	387.32	-55.49	-13	PASS
Band5	4132	1000~10000MHz	3167.8	-36.77	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-55.7	-33	PASS
Band5	4183	0.15~30MHz	0.15	-46.5	-13	PASS
Band5	4183	30~1000MHz	947.43	-55.55	-13	PASS
Band5	4183	1000~10000MHz	7306.9	-37.36	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.66	-33	PASS
Band5	4233	0.15~30MHz	0.15	-47.77	-13	PASS
Band5	4233	30~1000MHz	986.19	-55.76	-13	PASS
Band5	4233	1000~10000MHz	7300.3	-37.05	-13	PASS

Test Graphs(WCDMA)

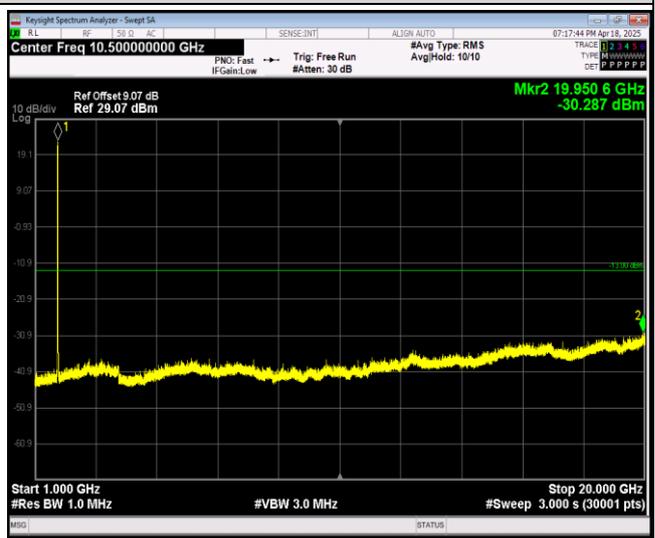
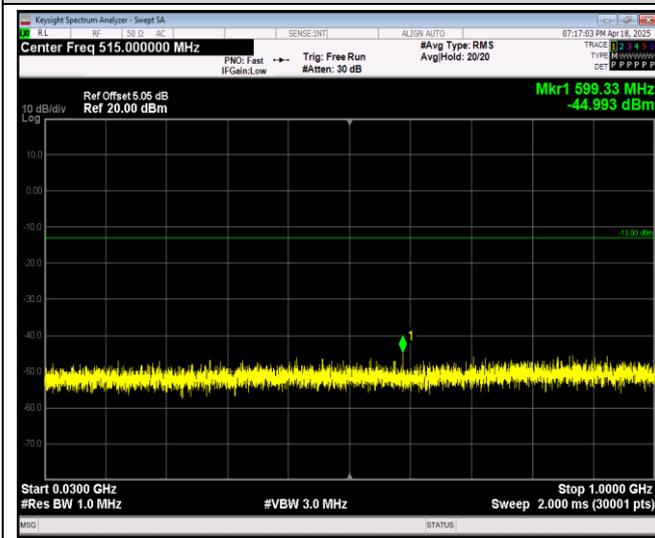






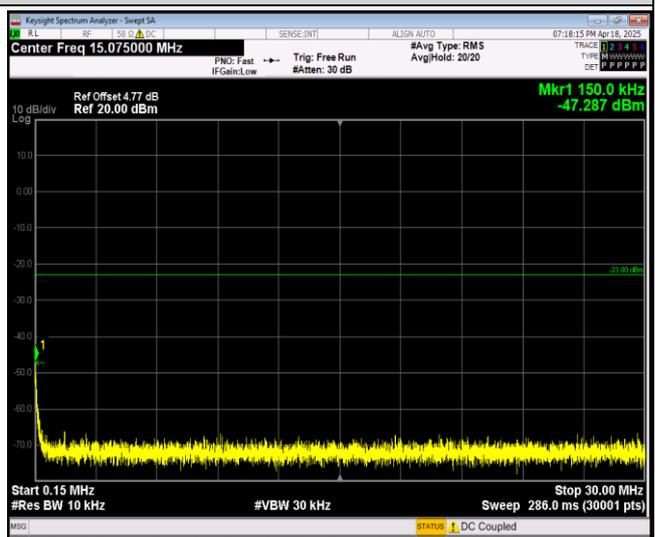
Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz



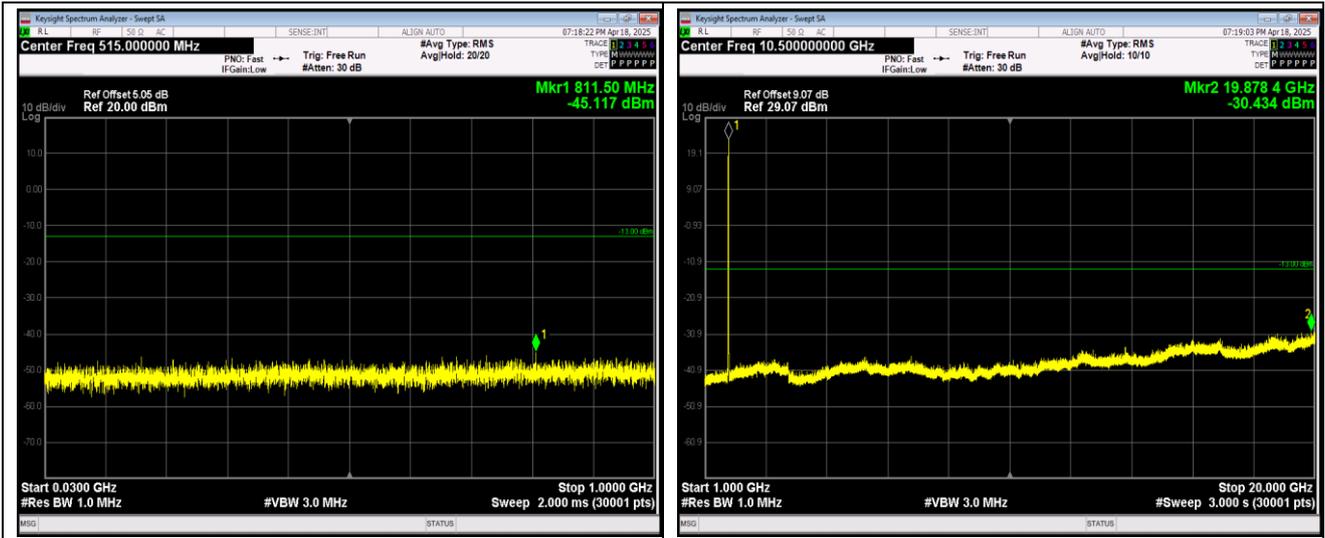
Band4-1413-0.009~0.15MHz

Band4-1413-0.15~30MHz



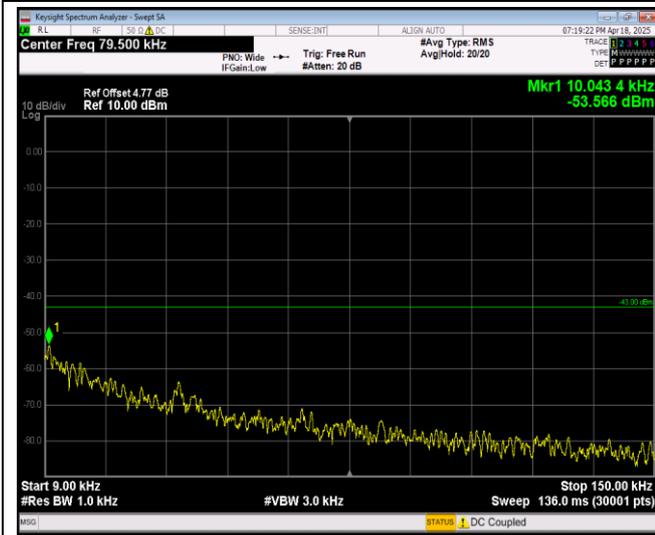
Band4-1413-30~1000MHz

Band4-1413-1000~20000MHz

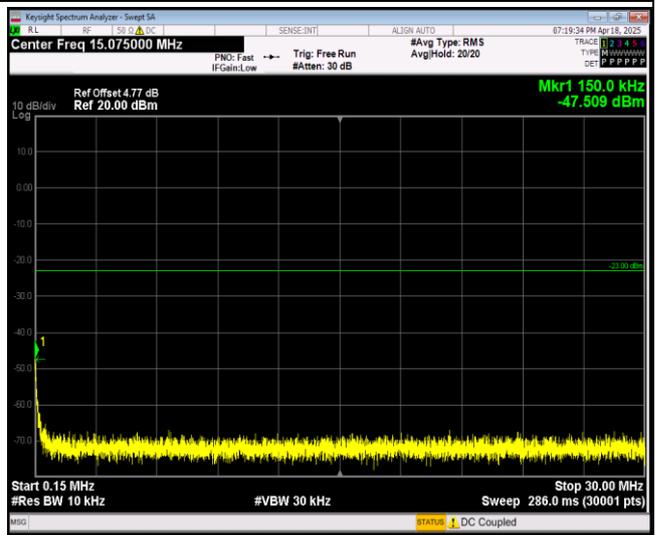


Band4-1513-0.009~0.15MHz

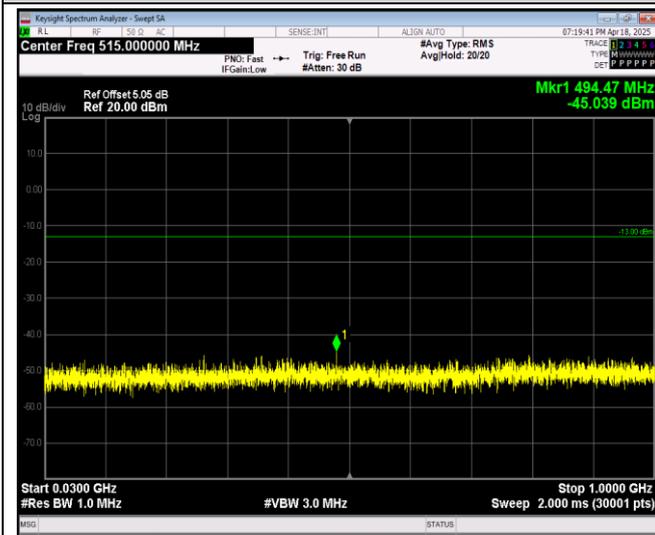
Band4-1513-0.15~30MHz



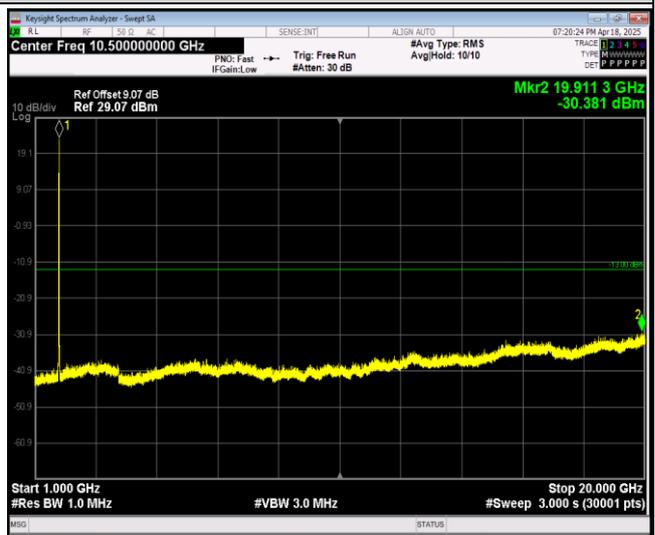
Band4-1513-30~1000MHz



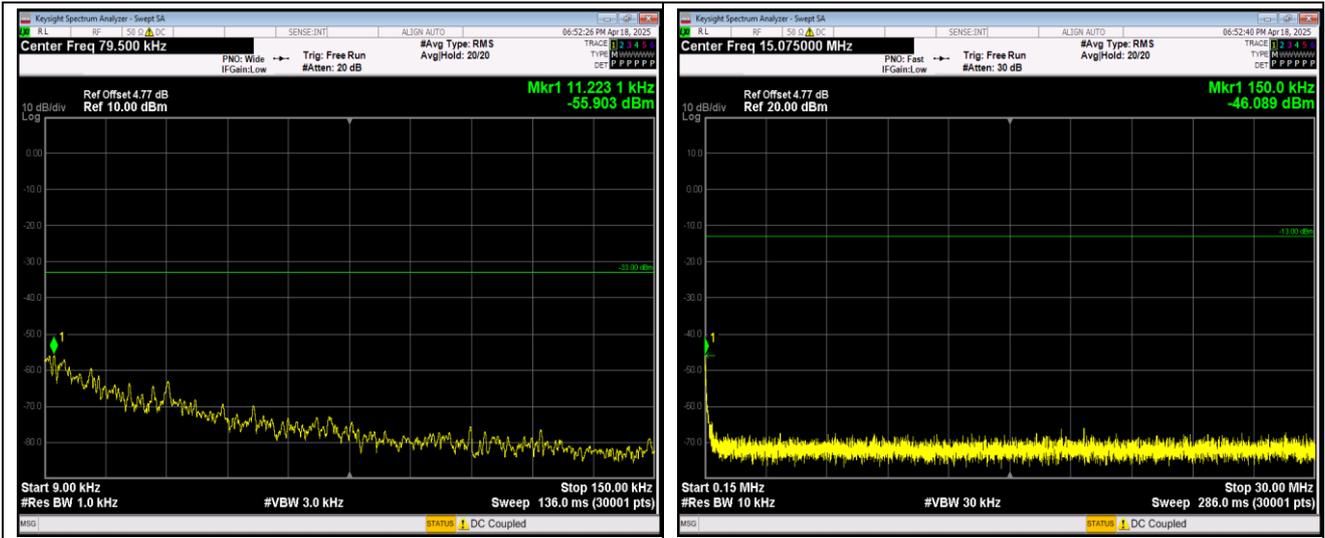
Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

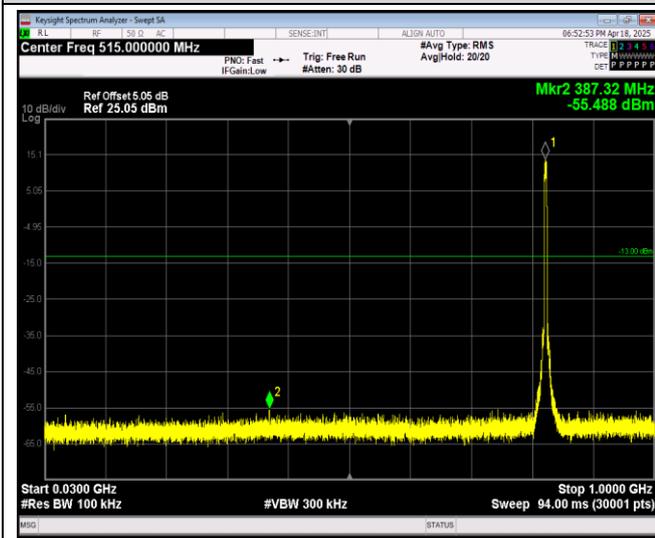


Band5-4132-0.15~30MHz

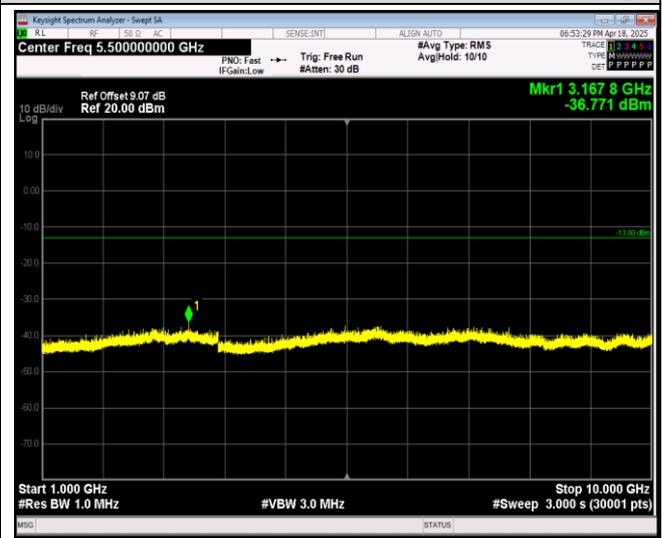


Band5-4132-30~1000MHz

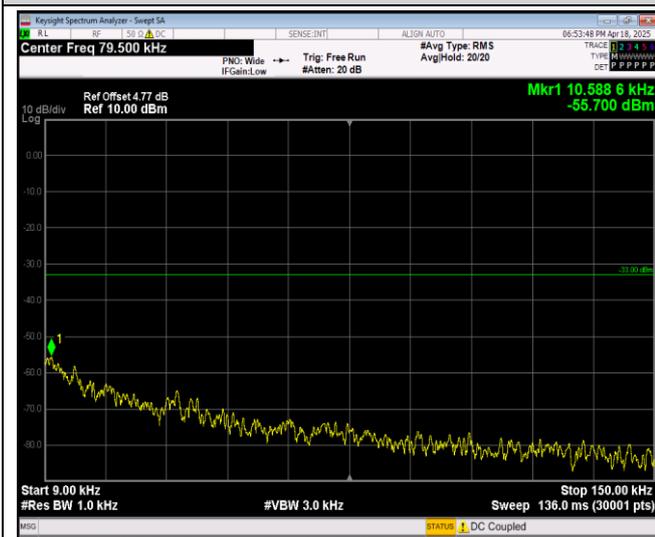
Band5-4132-1000~10000MHz



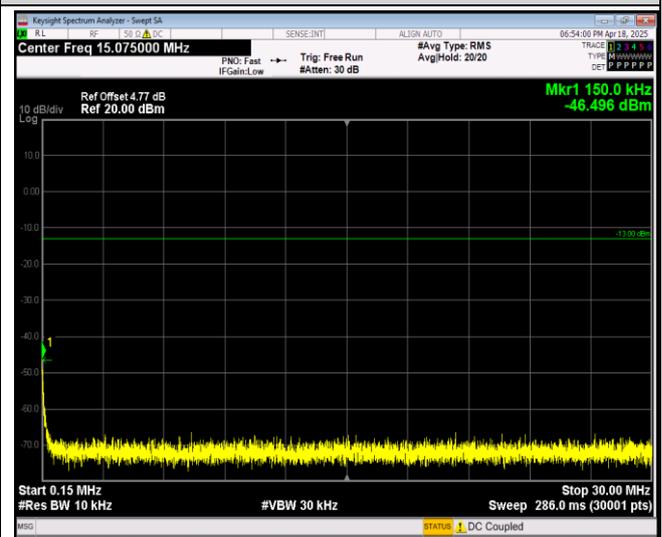
Band5-4183-0.009~0.15MHz



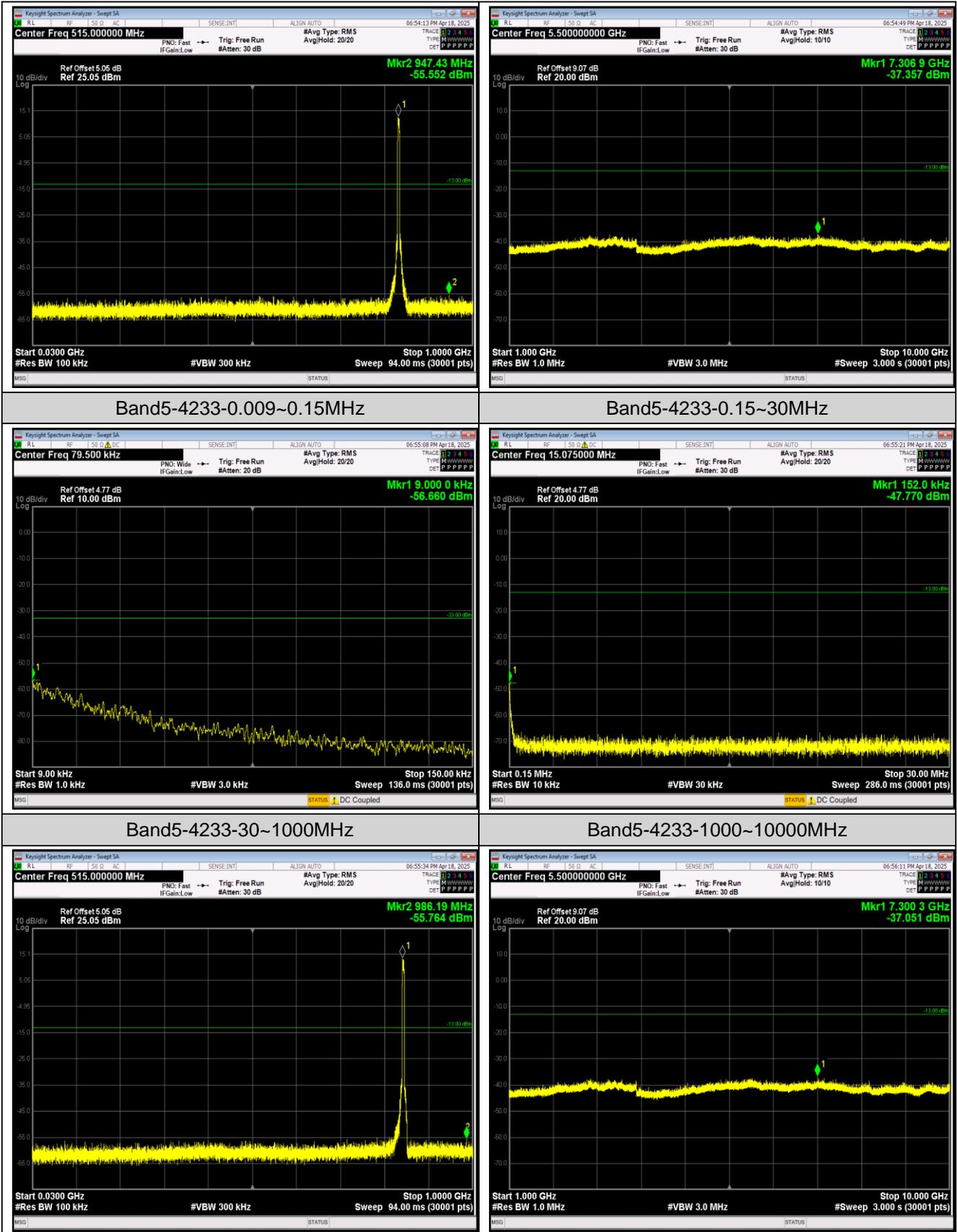
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz



Band5-4183-1000~10000MHz



Appendix F: Frequency Stability

Test Result

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-0.95	-0.001136	±2.5	Pass
	-20	-0.92	-0.001100		
	-10	0.35	0.000418		
	0	-0.65	-0.000777		
	10	-1.29	-0.001542		
	20	-1.10	-0.001315		
	30	1.04	0.001243		
	40	2.20	0.002630		
	50	2.41	0.002881		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-0.32	-0.000383	±2.5	Pass
	3.85	0.14	0.000167		
	4.45	-1.17	-0.001399		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: WCDMA BAND IV 12.2k RMC Middle Frequency=1413 channel=1732.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-2.83	-0.001633	Within authorized band for BAND IV	Pass
	-20	1.51	0.000872		
	-10	5.82	0.003359		
	0	0.42	0.000242		
	10	4.43	0.002557		
	20	0.99	0.000571		
	30	1.42	0.000820		
	40	-2.27	-0.001310		
	50	-0.94	-0.000543		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	0.17	0.000098	Within authorized band for BAND IV	Pass
	3.85	0.64	0.000369		
	4.45	-0.80	-0.000462		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

Reference Frequency: WCDMA BAND II 12.2k RMC Middle Frequency=9400 channel=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-4.79	-0.002548	Within authorized band for BAND II	Pass
	-20	-0.61	-0.000324		
	-10	1.97	0.001048		
	0	6.88	0.003660		
	10	1.21	0.000644		
	20	-1.65	-0.000878		
	30	3.21	0.001707		
	40	-1.61	-0.000856		
	50	1.61	0.000856		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-0.62	-0.000330	Within authorized band for BAND II	Pass
	3.85	-3.55	-0.001888		
	4.45	-0.77	-0.000410		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band2	9400	PASS	PASS
Band4	1413	PASS	PASS
Band5	4183	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

