

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	Voice	9262	23.43	21.16	33.01	PASS
Band2	TestMode	9262	23.38	21.11	33.01	PASS
Band2	TestMode	9400	23.68	21.41	33.01	PASS
Band2	Voice	9400	23.51	21.24	33.01	PASS
Band2	TestMode	9538	24.02	21.75	33.01	PASS
Band2	Voice	9538	23.99	21.72	33.01	PASS
Band4	Voice	1312	23.55	20.23	30.00	PASS
Band4	TestMode	1312	23.72	20.4	30.00	PASS
Band4	Voice	1413	23.75	20.43	30.00	PASS
Band4	TestMode	1413	23.71	20.39	30.00	PASS
Band4	TestMode	1513	23.52	20.2	30.00	PASS
Band4	Voice	1513	23.54	20.22	30.00	PASS
Band5	Voice	4132	24.24	16.26	38.45	PASS
Band5	TestMode	4132	24.32	16.34	38.45	PASS
Band5	TestMode	4183	24.23	16.25	38.45	PASS
Band5	Voice	4183	24.09	16.11	38.45	PASS
Band5	Voice	4233	24.09	16.11	38.45	PASS
Band5	TestMode	4233	24.04	16.06	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	23.42	21.15	33.01	PASS
Band2	9262	2	22.82	20.55	33.01	PASS
Band2	9262	3	22.87	20.6	33.01	PASS
Band2	9262	4	22.84	20.57	33.01	PASS
Band2	9400	1	23.66	21.39	33.01	PASS
Band2	9400	2	23.11	20.84	33.01	PASS
Band2	9400	3	23.13	20.86	33.01	PASS
Band2	9400	4	23.14	20.87	33.01	PASS
Band2	9538	1	24.03	21.76	33.01	PASS
Band2	9538	2	23.45	21.18	33.01	PASS
Band2	9538	3	23.47	21.2	33.01	PASS
Band2	9538	4	23.45	21.18	33.01	PASS

Band4	1312	1	23.75	20.43	30.00	PASS
Band4	1312	2	23.18	19.86	30.00	PASS
Band4	1312	3	23.19	19.87	30.00	PASS
Band4	1312	4	23.19	19.87	30.00	PASS
Band4	1413	1	23.73	20.41	30.00	PASS
Band4	1413	2	23.19	19.87	30.00	PASS
Band4	1413	3	23.16	19.84	30.00	PASS
Band4	1413	4	23.17	19.85	30.00	PASS
Band4	1513	1	23.55	20.23	30.00	PASS
Band4	1513	2	23.00	19.68	30.00	PASS
Band4	1513	3	22.98	19.66	30.00	PASS
Band4	1513	4	23.00	19.68	30.00	PASS
Band5	4132	1	24.35	16.37	38.5	PASS
Band5	4132	2	23.84	15.86	38.5	PASS
Band5	4132	3	23.81	15.83	38.5	PASS
Band5	4132	4	23.79	15.81	38.5	PASS
Band5	4183	1	24.24	16.26	38.5	PASS
Band5	4183	2	23.73	15.75	38.5	PASS
Band5	4183	3	23.68	15.7	38.5	PASS
Band5	4183	4	23.68	15.7	38.5	PASS
Band5	4233	1	24.12	16.14	38.5	PASS
Band5	4233	2	23.58	15.6	38.5	PASS
Band5	4233	3	23.59	15.61	38.5	PASS
Band5	4233	4	23.59	15.61	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.41	19.14	33.01	PASS
Band2	9262	2	21.89	19.62	33.01	PASS
Band2	9262	3	22.38	20.11	33.01	PASS
Band2	9262	4	21.41	19.14	33.01	PASS
Band2	9262	5	23.40	21.13	33.01	PASS
Band2	9400	1	21.69	19.42	33.01	PASS
Band2	9400	2	22.14	19.87	33.01	PASS
Band2	9400	3	22.66	20.39	33.01	PASS
Band2	9400	4	21.64	19.37	33.01	PASS
Band2	9400	5	23.66	21.39	33.01	PASS
Band2	9538	1	22.02	19.75	33.01	PASS
Band2	9538	2	22.46	20.19	33.01	PASS
Band2	9538	3	22.99	20.72	33.01	PASS

Band2	9538	4	22.03	19.76	33.01	PASS
Band2	9538	5	23.98	21.71	33.01	PASS
Band4	1312	1	21.75	18.43	30.00	PASS
Band4	1312	2	22.21	18.89	30.00	PASS
Band4	1312	3	22.71	19.39	30.00	PASS
Band4	1312	4	21.75	18.43	30.00	PASS
Band4	1312	5	23.71	20.39	30.00	PASS
Band4	1413	1	21.72	18.4	30.00	PASS
Band4	1413	2	22.20	18.88	30.00	PASS
Band4	1413	3	22.67	19.35	30.00	PASS
Band4	1413	4	21.72	18.4	30.00	PASS
Band4	1413	5	23.72	20.4	30.00	PASS
Band4	1513	1	21.54	18.22	30.00	PASS
Band4	1513	2	22.00	18.68	30.00	PASS
Band4	1513	3	22.49	19.17	30.00	PASS
Band4	1513	4	21.53	18.21	30.00	PASS
Band4	1513	5	23.55	20.23	30.00	PASS
Band5	4132	1	22.38	14.4	38.5	PASS
Band5	4132	2	22.84	14.86	38.5	PASS
Band5	4132	3	23.37	15.39	38.5	PASS
Band5	4132	4	22.41	14.43	38.5	PASS
Band5	4132	5	24.35	16.37	38.5	PASS
Band5	4183	1	22.24	14.26	38.5	PASS
Band5	4183	2	22.73	14.75	38.5	PASS
Band5	4183	3	23.26	15.28	38.5	PASS
Band5	4183	4	22.27	14.29	38.5	PASS
Band5	4183	5	24.24	16.26	38.5	PASS
Band5	4233	1	22.13	14.15	38.5	PASS
Band5	4233	2	22.61	14.63	38.5	PASS
Band5	4233	3	23.12	15.14	38.5	PASS
Band5	4233	4	22.13	14.15	38.5	PASS
Band5	4233	5	24.11	16.13	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2)
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

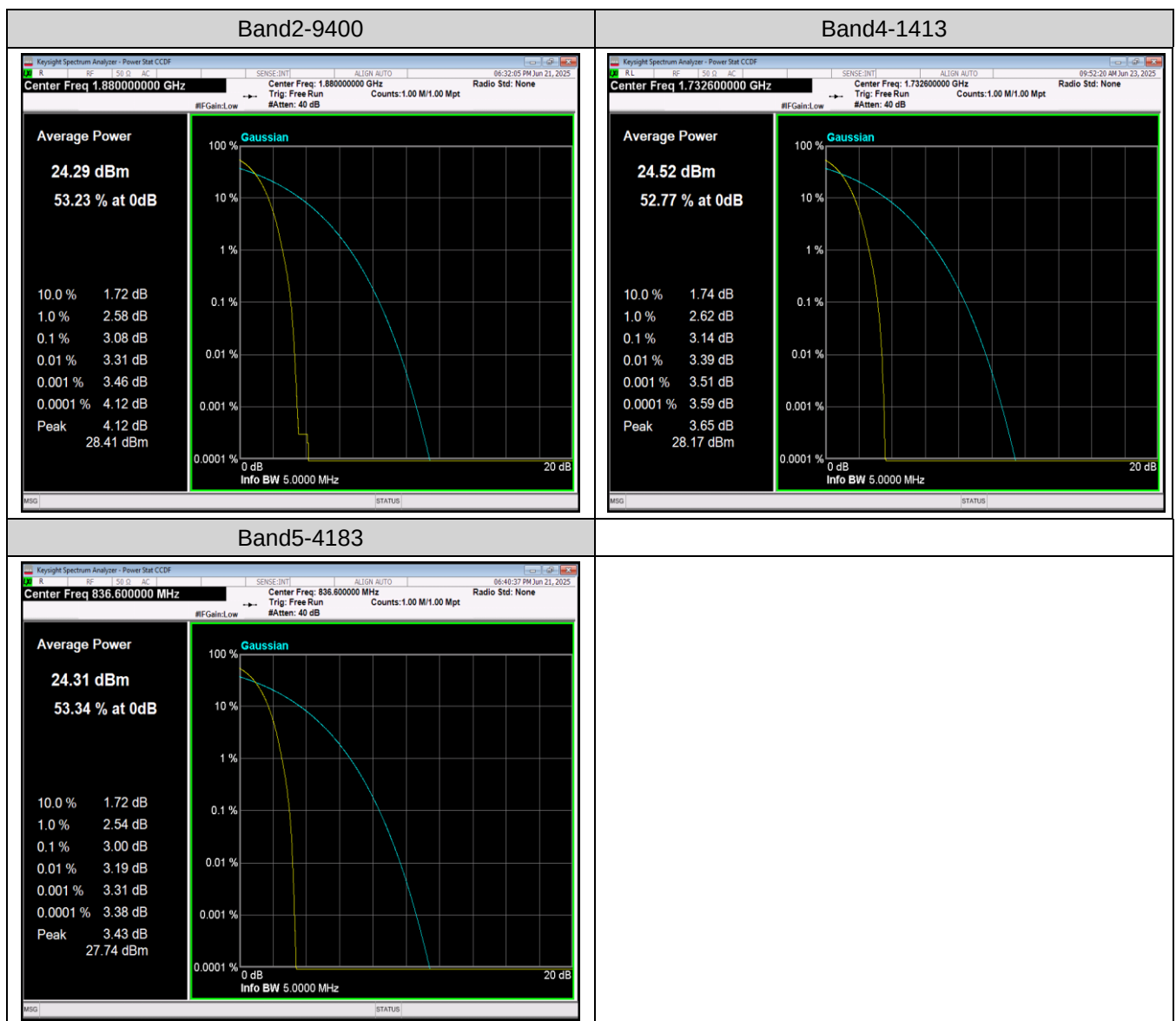
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.08	13	PASS
Band4	1413	3.14	13	PASS
Band5	4183	3	13	PASS

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

Test Graphs(WCDMA)

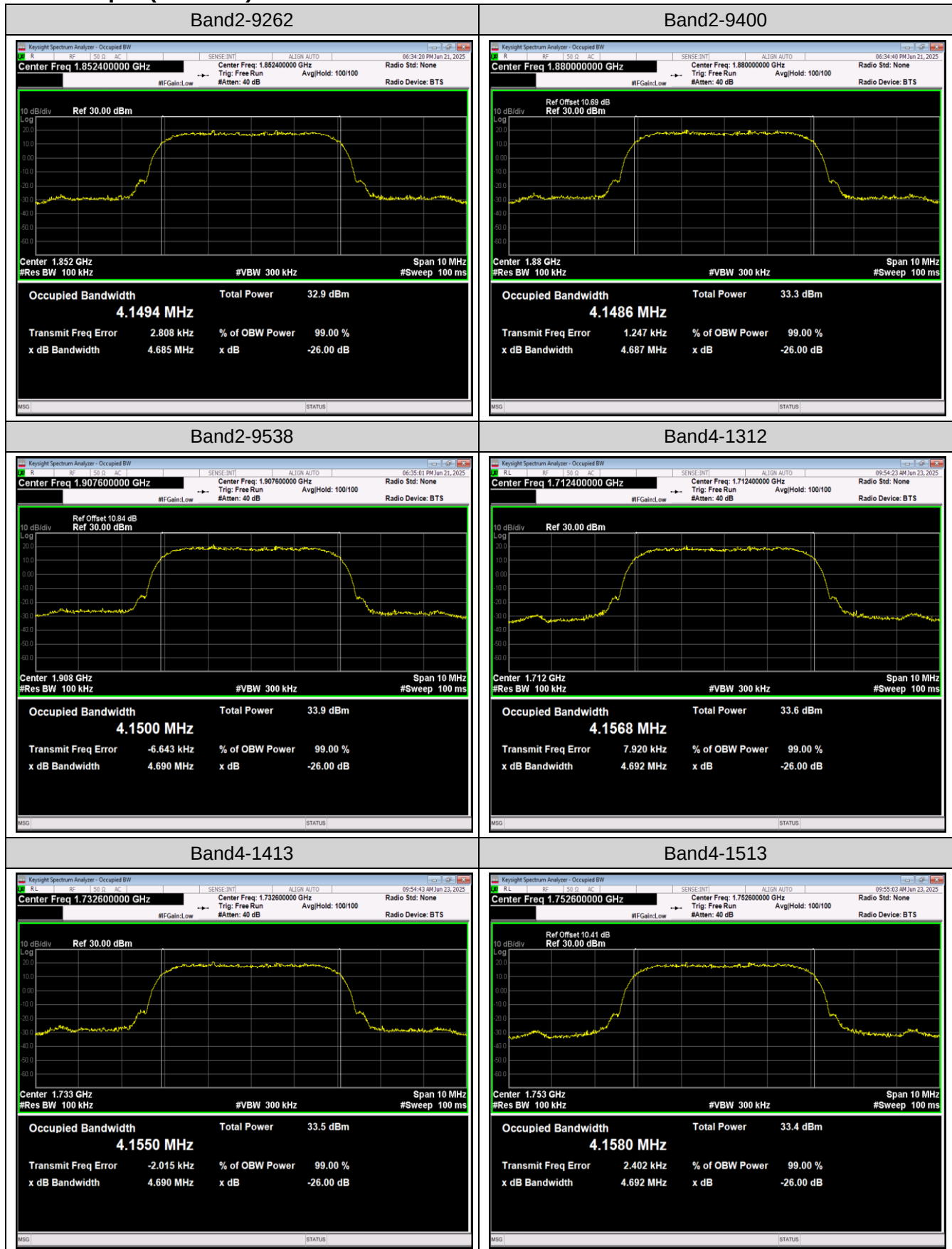


AppendixC:26dB Bandwidth andOccupied Bandwidth

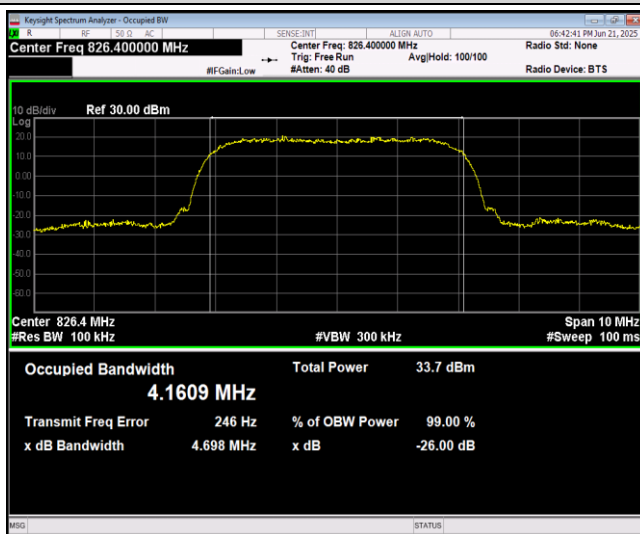
Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1494	4.685	---	PASS
Band2	9400	4.1486	4.687	---	PASS
Band2	9538	4.1500	4.690	---	PASS
Band4	1312	4.1568	4.692	---	PASS
Band4	1413	4.1550	4.690	---	PASS
Band4	1513	4.1580	4.692	---	PASS
Band5	4132	4.1609	4.698	---	PASS
Band5	4183	4.1458	4.686	---	PASS
Band5	4233	4.1520	4.679	---	PASS

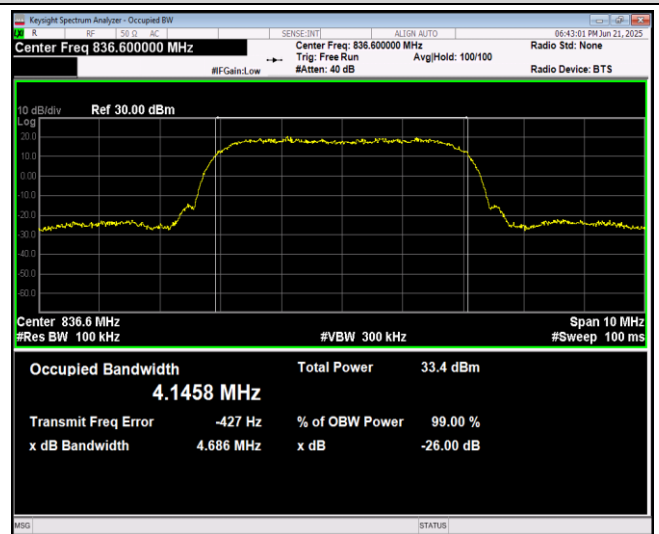
Test Graphs(WCDMA)



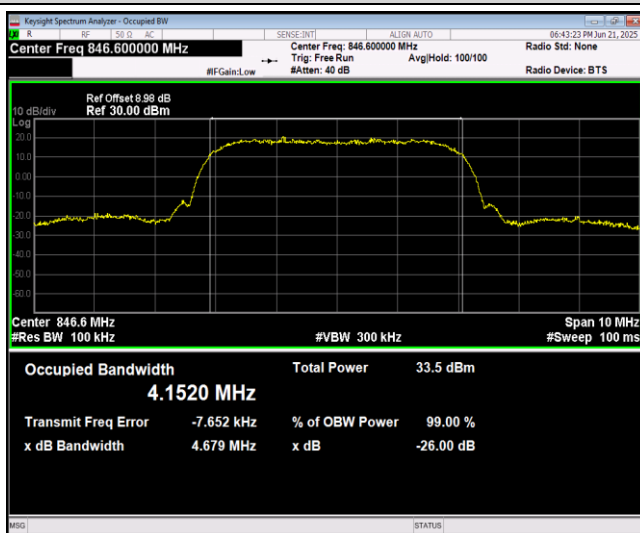
Band5-4132



Band5-4183



Band5-4233

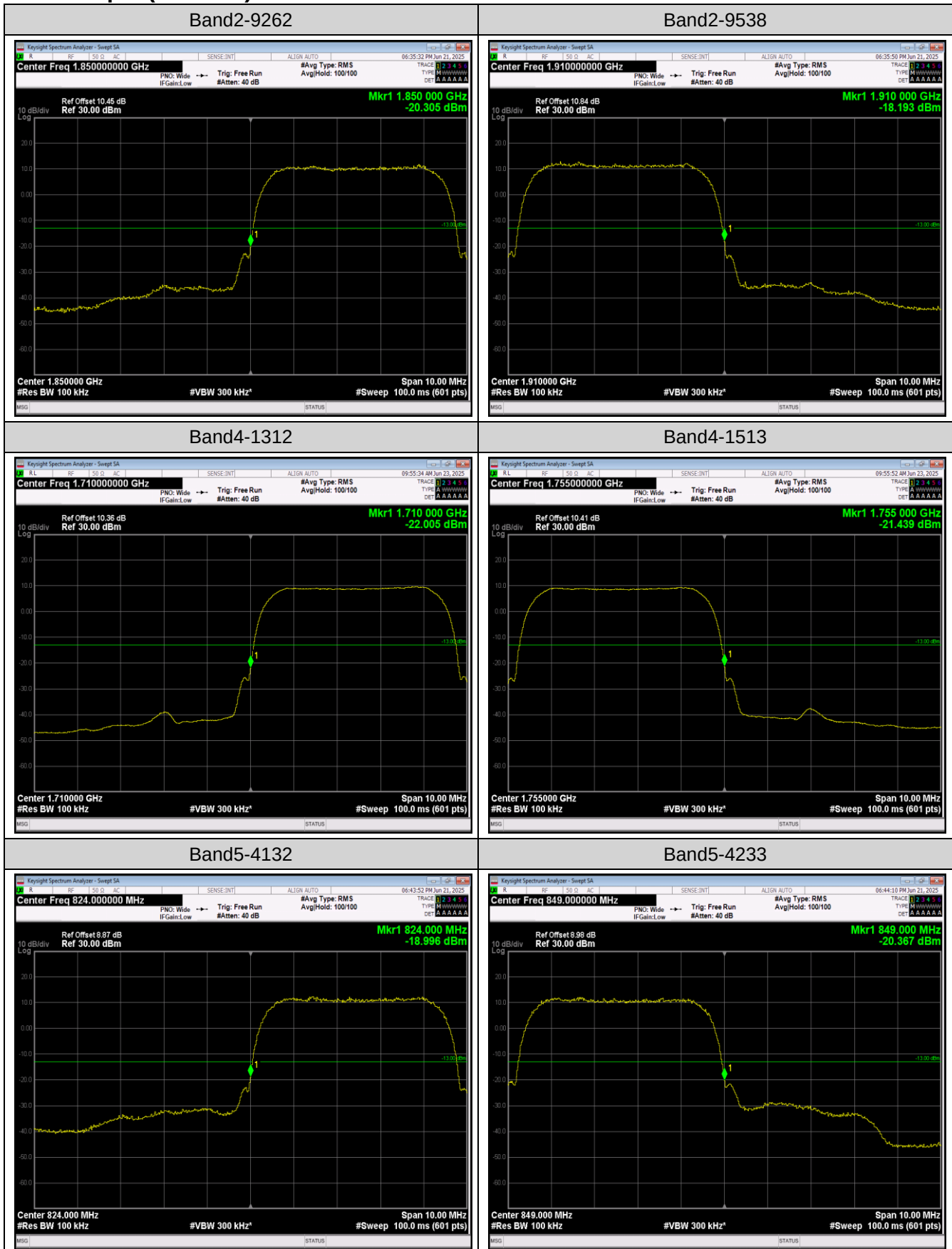


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.30	-13	PASS
Band2	9538	1910.00	-18.19	-13	PASS
Band4	1312	1710.00	-22.01	-13	PASS
Band4	1513	1755.00	-21.44	-13	PASS
Band5	4132	824.00	-19.00	-13	PASS
Band5	4233	849.00	-20.37	-13	PASS

Test Graphs(WCDMA)

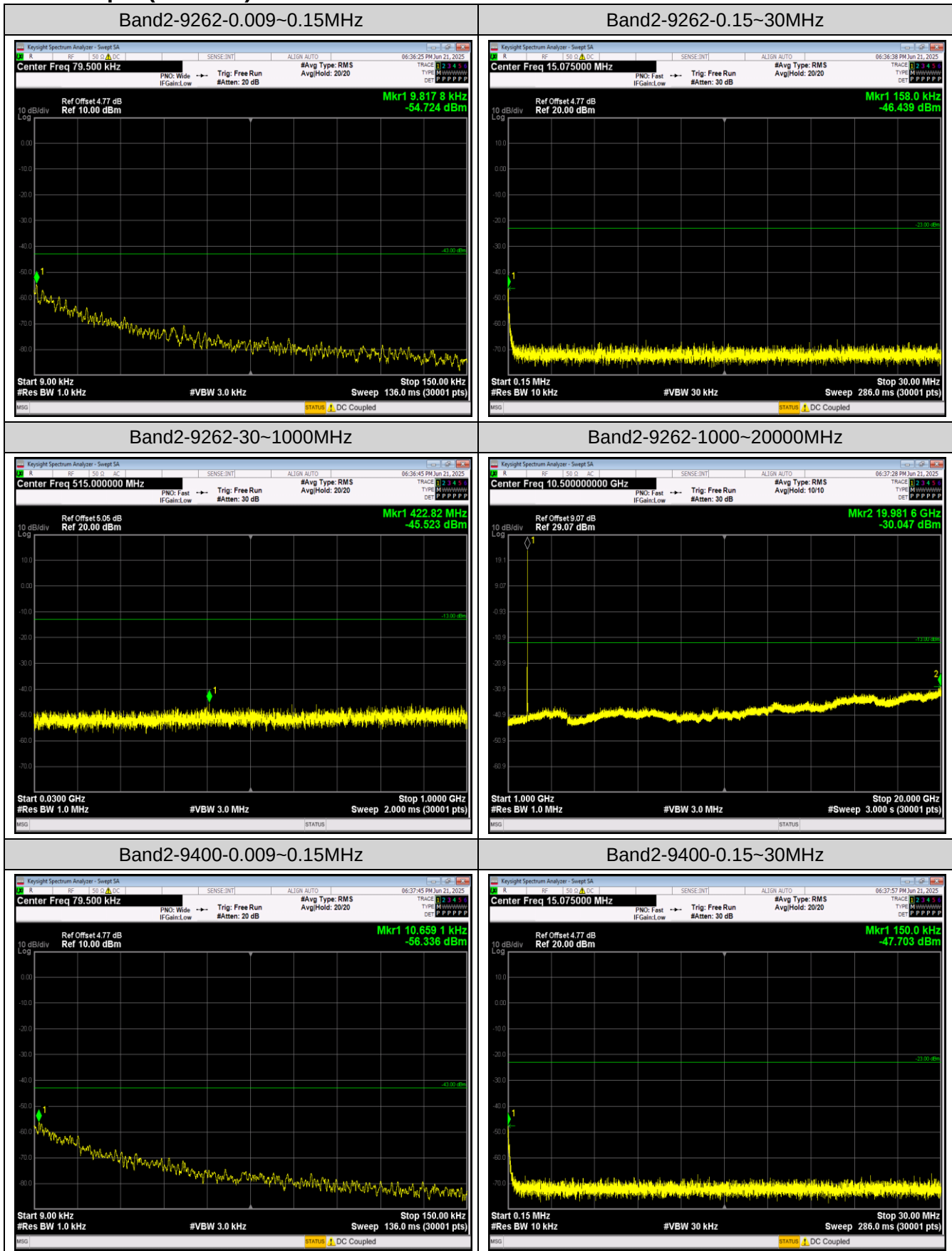


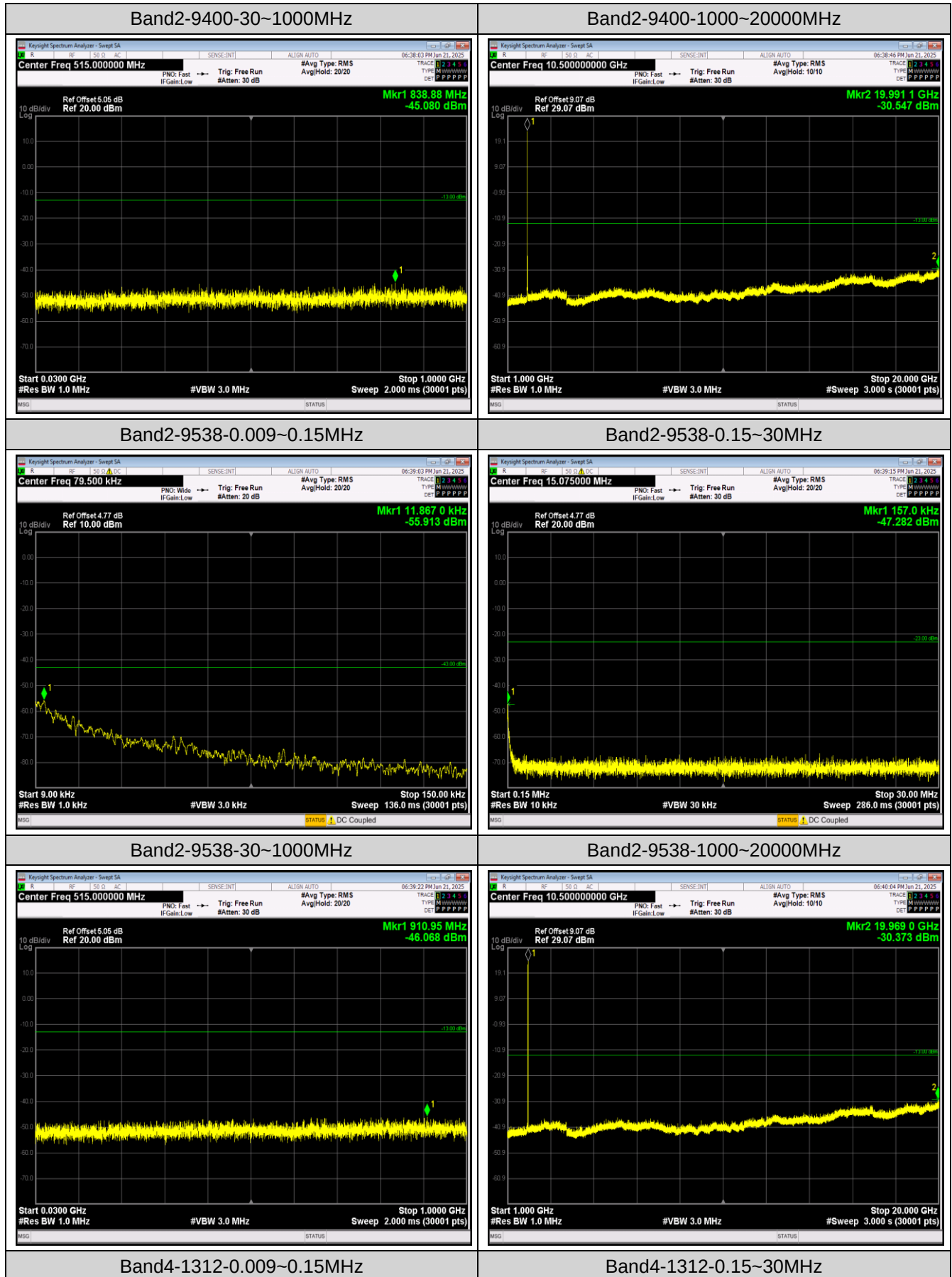
AppendixE:Conducted SpuriousEmission

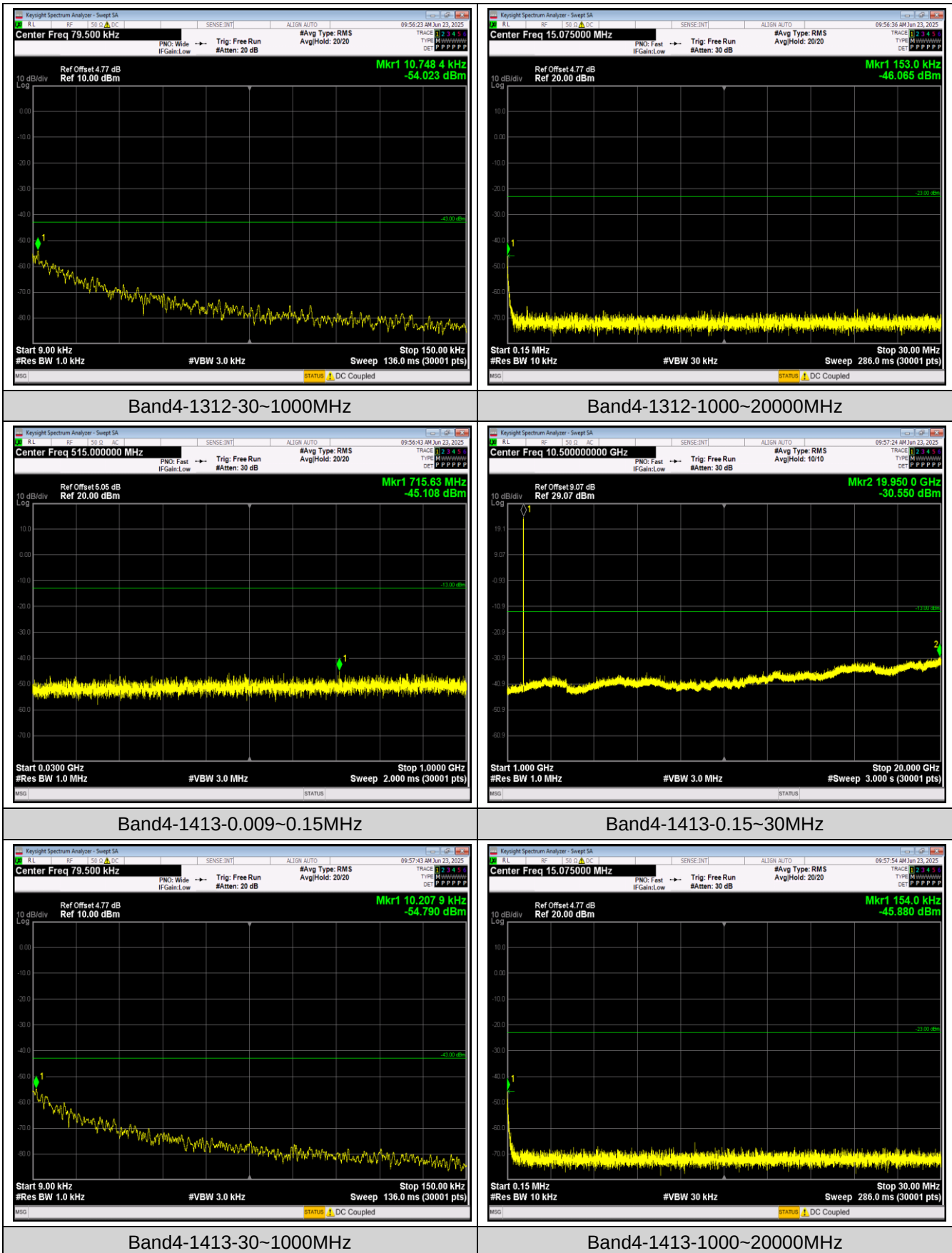
Test Result(WCDMA)

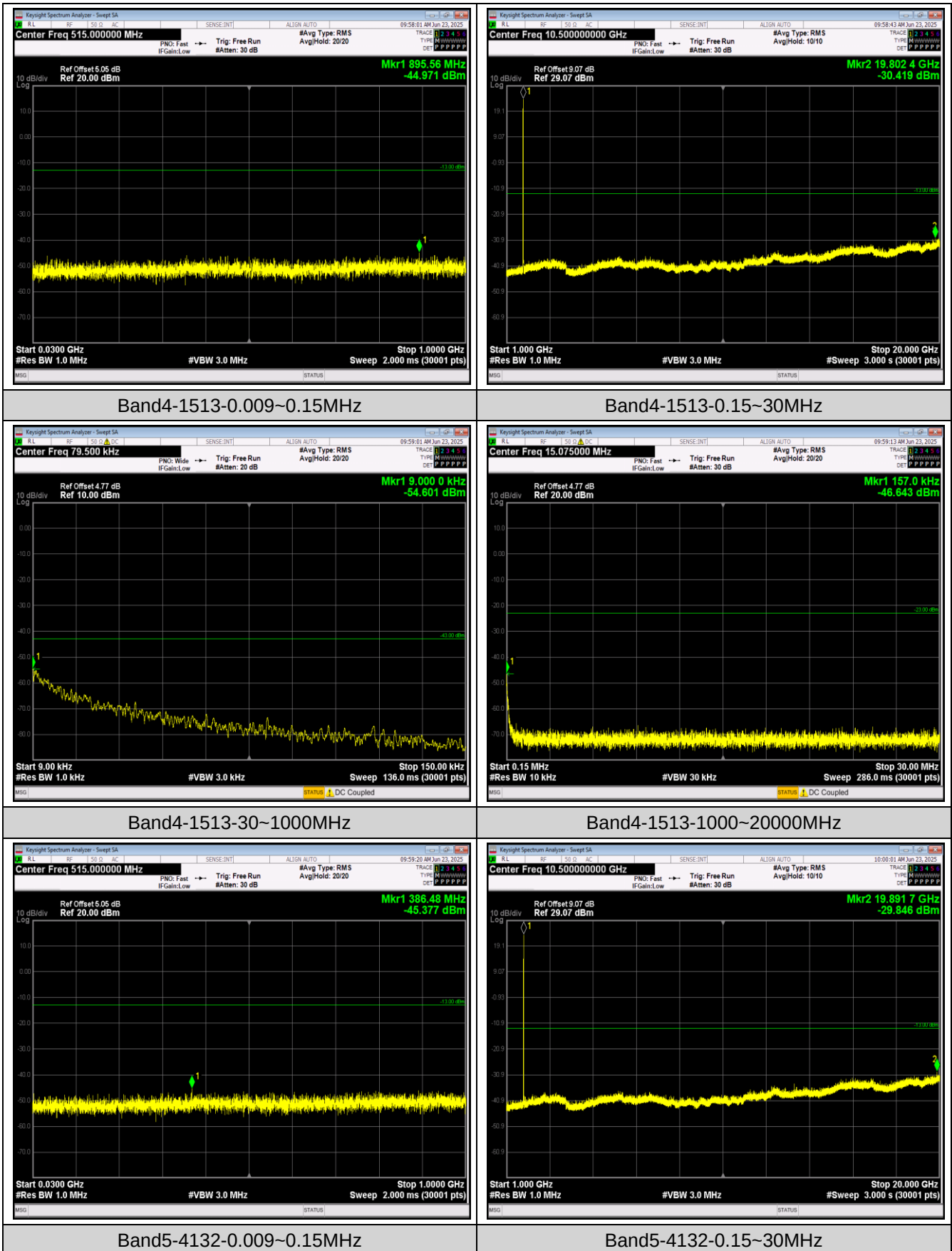
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.72	-43	PASS
Band2	9262	0.15~30MHz	0.16	-46.44	-23	PASS
Band2	9262	30~1000MHz	422.82	-45.52	-13	PASS
Band2	9262	1000~20000MHz	19981.63	-30.05	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.34	-43	PASS
Band2	9400	0.15~30MHz	0.15	-47.7	-23	PASS
Band2	9400	30~1000MHz	838.88	-45.08	-13	PASS
Band2	9400	1000~20000MHz	19991.13	-30.55	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-55.91	-43	PASS
Band2	9538	0.15~30MHz	0.16	-47.28	-23	PASS
Band2	9538	30~1000MHz	910.95	-46.07	-13	PASS
Band2	9538	1000~20000MHz	19968.97	-30.37	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-54.02	-43	PASS
Band4	1312	0.15~30MHz	0.15	-46.07	-23	PASS
Band4	1312	30~1000MHz	715.63	-45.11	-13	PASS
Band4	1312	1000~20000MHz	19949.97	-30.55	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-54.79	-43	PASS
Band4	1413	0.15~30MHz	0.15	-45.88	-23	PASS
Band4	1413	30~1000MHz	895.56	-44.97	-13	PASS
Band4	1413	1000~20000MHz	19802.4	-30.42	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-54.6	-43	PASS
Band4	1513	0.15~30MHz	0.16	-46.64	-23	PASS
Band4	1513	30~1000MHz	386.48	-45.38	-13	PASS
Band4	1513	1000~20000MHz	19891.7	-29.85	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-56.94	-33	PASS
Band5	4132	0.15~30MHz	0.16	-46.03	-13	PASS
Band5	4132	30~1000MHz	953.25	-55.7	-13	PASS
Band5	4132	1000~10000MHz	6963.7	-37.09	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-55.49	-33	PASS
Band5	4183	0.15~30MHz	0.16	-47.58	-13	PASS
Band5	4183	30~1000MHz	117.56	-55.78	-13	PASS
Band5	4183	1000~10000MHz	6018.1	-37.13	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.42	-33	PASS
Band5	4233	0.15~30MHz	0.15	-49.38	-13	PASS
Band5	4233	30~1000MHz	600.94	-55.26	-13	PASS
Band5	4233	1000~10000MHz	7287.1	-36.77	-13	PASS

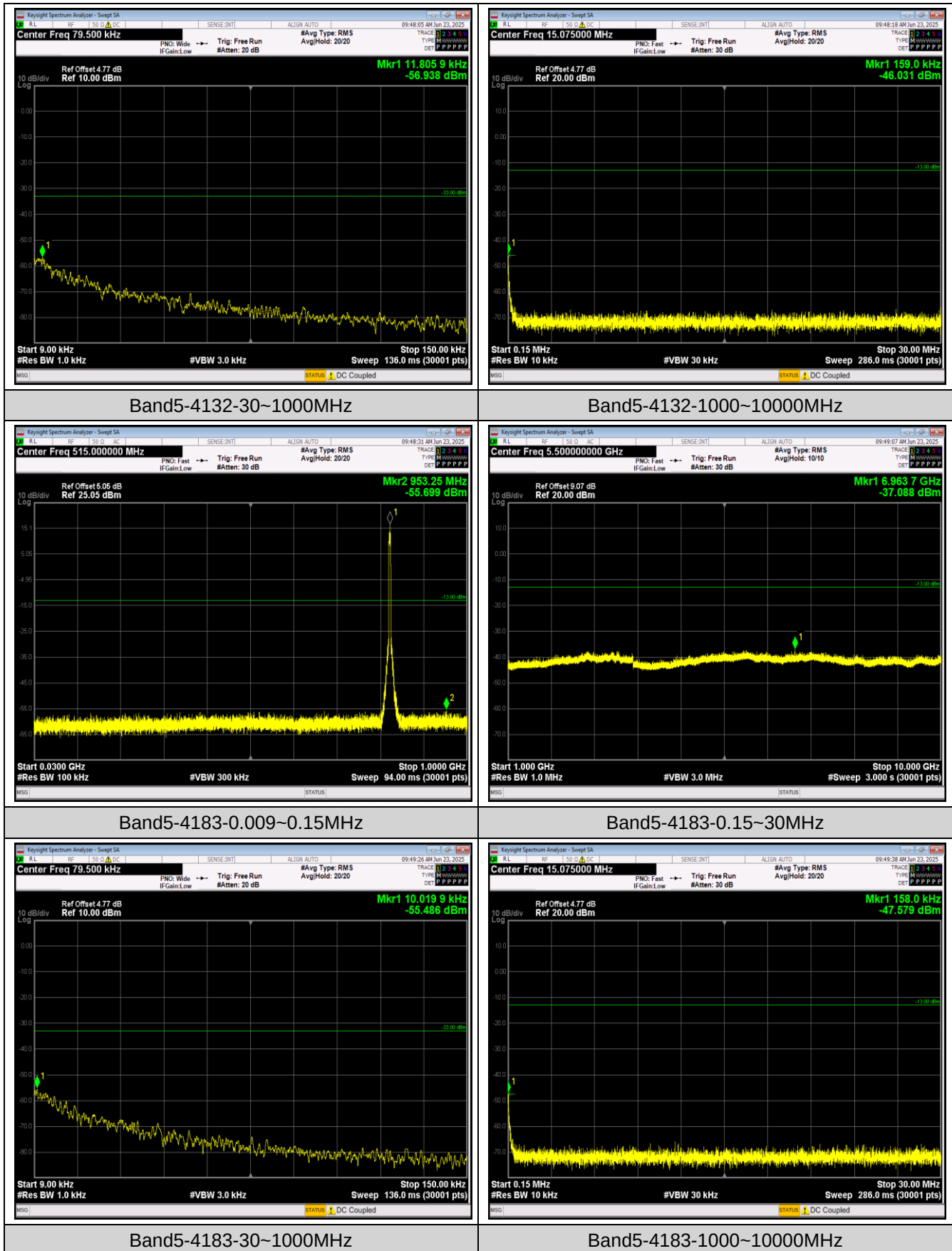
Test Graphs(WCDMA)

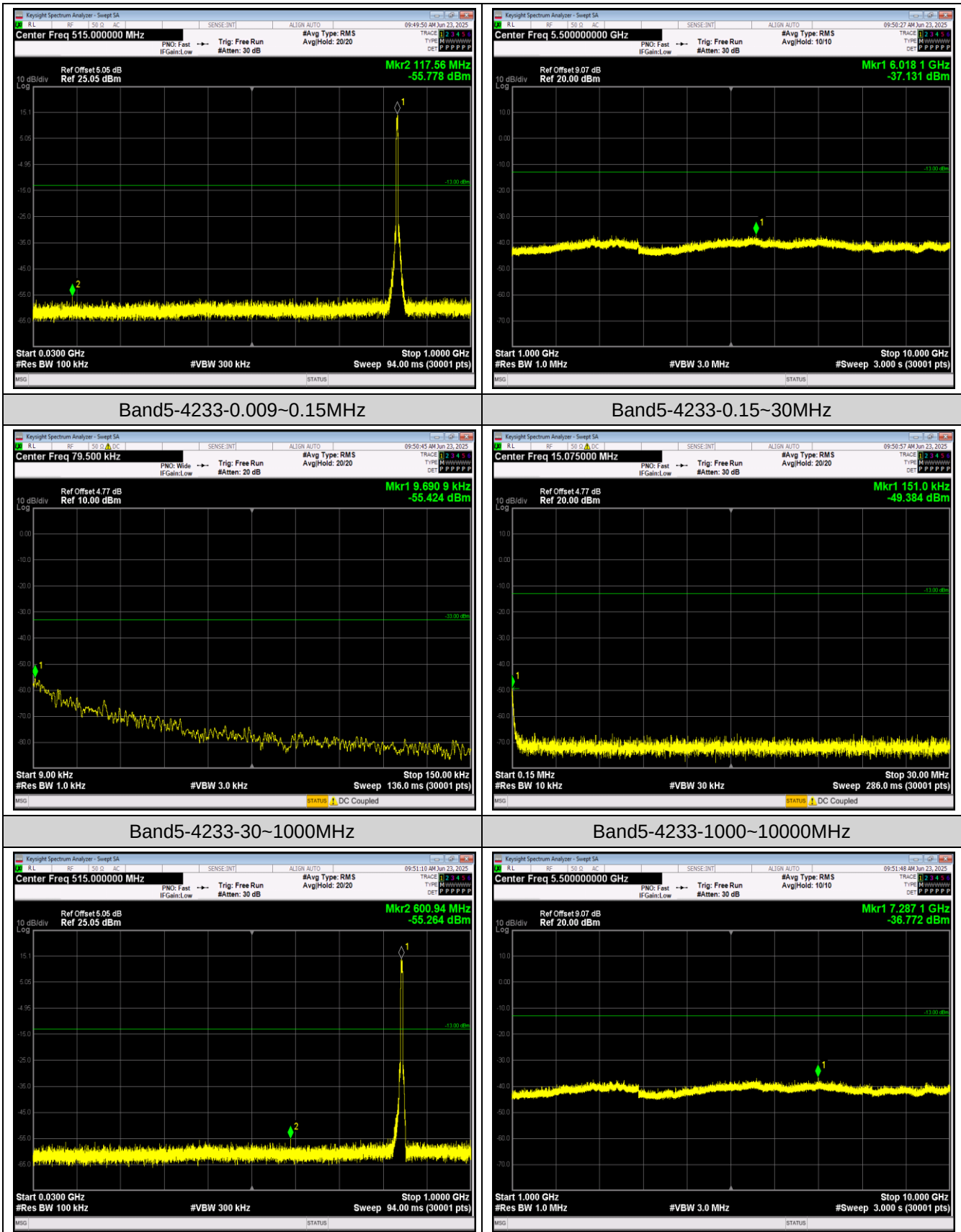












AppendixF:Frequency Stability

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		
3.92	-30	-2.53	-0.003024	±2.5	Pass
	-20	-1.21	-0.001446		
	-10	-1.81	-0.002164		
	0	-3.83	-0.004578		
	10	-1.30	-0.001554		
	20	-3.05	-0.003646		
	30	-3.43	-0.004100		
	40	-3.45	-0.004124		
	50	-2.01	-0.002403		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.57	-0.005463	±2.5	Pass
	3.92	-2.80	-0.003347		
	4.53	-3.25	-0.003885		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.92	-30	-3.28	-0.001893	Within authorized band for BAND IV	Pass
	-20	-6.28	-0.003625		
	-10	-7.80	-0.004502		
	0	-3.83	-0.002211		
	10	-1.47	-0.000848		
	20	-1.05	-0.000606		
	30	-5.82	-0.003359		
	40	-5.60	-0.003232		
	50	-5.53	-0.003192		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-7.50	-0.004329	Within authorized band for BAND IV	Pass
	3.92	-4.26	-0.002459		
	4.53	-5.81	-0.003353		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

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		
3.92	-30	-5.39	-0.002867	Within authorized band for BAND II	Pass
	-20	-3.96	-0.002106		
	-10	-1.69	-0.000899		
	0	-5.66	-0.003011		
	10	-1.65	-0.000878		
	20	-3.63	-0.001931		
	30	-1.17	-0.000622		
	40	-2.91	-0.001548		
	50	-3.69	-0.001963		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.35	-0.002314	Within authorized band for BAND II	Pass
	3.92	-6.47	-0.003441		
	4.53	-5.17	-0.002750		
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

