

**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	22.53	18.73	33.01	PASS
Band2	TestMode	9262	22.57	18.77	33.01	PASS
Band2	TestMode	9400	22.78	18.98	33.01	PASS
Band2	Voice	9400	22.70	18.9	33.01	PASS
Band2	TestMode	9538	22.78	18.98	33.01	PASS
Band2	Voice	9538	22.62	18.82	33.01	PASS
Band4	TestMode	1312	22.31	19.91	30.00	PASS
Band4	Voice	1312	22.09	19.69	30.00	PASS
Band4	Voice	1413	22.43	20.03	30.00	PASS
Band4	TestMode	1413	22.48	20.08	30.00	PASS
Band4	TestMode	1513	22.32	19.92	30.00	PASS
Band4	Voice	1513	22.23	19.83	30.00	PASS
Band5	Voice	4132	23.61	16.26	38.45	PASS
Band5	TestMode	4132	23.65	16.3	38.45	PASS
Band5	TestMode	4183	23.65	16.3	38.45	PASS
Band5	Voice	4183	23.66	16.31	38.45	PASS
Band5	Voice	4233	23.71	16.36	38.45	PASS
Band5	TestMode	4233	23.73	16.38	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.97	18.17	33.01	PASS
Band2	9262	2	21.72	17.92	33.01	PASS
Band2	9262	3	21.50	17.7	33.01	PASS
Band2	9262	4	21.52	17.72	33.01	PASS
Band2	9400	1	22.62	18.82	33.01	PASS
Band2	9400	2	22.32	18.52	33.01	PASS
Band2	9400	3	22.14	18.34	33.01	PASS
Band2	9400	4	22.21	18.41	33.01	PASS
Band2	9538	1	22.49	18.69	33.01	PASS
Band2	9538	2	22.20	18.4	33.01	PASS
Band2	9538	3	22.02	18.22	33.01	PASS
Band2	9538	4	22.09	18.29	33.01	PASS
Band4	1312	1	21.42	19.02	30.00	PASS



Band4	1312	2	21.65	19.25	30.00	PASS
Band4	1312	3	21.64	19.24	30.00	PASS
Band4	1312	4	21.66	19.26	30.00	PASS
Band4	1413	1	21.98	19.58	30.00	PASS
Band4	1413	2	22.01	19.61	30.00	PASS
Band4	1413	3	21.96	19.56	30.00	PASS
Band4	1413	4	21.97	19.57	30.00	PASS
Band4	1513	1	21.57	19.17	30.00	PASS
Band4	1513	2	21.72	19.32	30.00	PASS
Band4	1513	3	21.69	19.29	30.00	PASS
Band4	1513	4	21.66	19.26	30.00	PASS
Band5	4132	1	22.56	15.21	38.5	PASS
Band5	4132	2	22.11	14.76	38.5	PASS
Band5	4132	3	21.86	14.51	38.5	PASS
Band5	4132	4	21.87	14.52	38.5	PASS
Band5	4183	1	22.42	15.07	38.5	PASS
Band5	4183	2	22.34	14.99	38.5	PASS
Band5	4183	3	21.58	14.23	38.5	PASS
Band5	4183	4	21.61	14.26	38.5	PASS
Band5	4233	1	22.21	14.86	38.5	PASS
Band5	4233	2	22.15	14.8	38.5	PASS
Band5	4233	3	21.69	14.34	38.5	PASS
Band5	4233	4	21.69	14.34	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.47	15.57	33.01	PASS
Band2	9262	2	20.21	16.31	33.01	PASS
Band2	9262	3	19.92	16.02	33.01	PASS
Band2	9262	4	20.25	16.35	33.01	PASS
Band2	9262	5	22.00	18.1	33.01	PASS
Band2	9400	1	20.47	16.57	33.01	PASS
Band2	9400	2	20.96	17.06	33.01	PASS
Band2	9400	3	20.70	16.8	33.01	PASS
Band2	9400	4	21.02	17.12	33.01	PASS
Band2	9400	5	22.66	18.76	33.01	PASS
Band2	9538	1	20.49	16.59	33.01	PASS
Band2	9538	2	20.99	17.09	33.01	PASS
Band2	9538	3	20.73	16.83	33.01	PASS
Band2	9538	4	21.05	17.15	33.01	PASS
Band2	9538	5	22.53	18.63	33.01	PASS



Band4	1312	1	21.46	19.86	30.00	PASS
Band4	1312	2	21.68	20.08	30.00	PASS
Band4	1312	3	21.36	19.76	30.00	PASS
Band4	1312	4	21.76	20.16	30.00	PASS
Band4	1312	5	21.72	20.12	30.00	PASS
Band4	1413	1	21.91	20.31	30.00	PASS
Band4	1413	2	21.91	20.31	30.00	PASS
Band4	1413	3	21.75	20.15	30.00	PASS
Band4	1413	4	21.97	20.37	30.00	PASS
Band4	1413	5	22.09	20.49	30.00	PASS
Band4	1513	1	21.53	19.93	30.00	PASS
Band4	1513	2	21.73	20.13	30.00	PASS
Band4	1513	3	21.45	19.85	30.00	PASS
Band4	1513	4	21.88	20.28	30.00	PASS
Band4	1513	5	21.75	20.15	30.00	PASS
Band5	4132	1	20.50	13.15	38.5	PASS
Band5	4132	2	20.92	13.57	38.5	PASS
Band5	4132	3	20.64	13.29	38.5	PASS
Band5	4132	4	20.46	13.11	38.5	PASS
Band5	4132	5	22.72	15.37	38.5	PASS
Band5	4183	1	20.60	13.25	38.5	PASS
Band5	4183	2	20.72	13.37	38.5	PASS
Band5	4183	3	20.46	13.11	38.5	PASS
Band5	4183	4	20.27	12.92	38.5	PASS
Band5	4183	5	22.68	15.33	38.5	PASS
Band5	4233	1	20.53	13.18	38.5	PASS
Band5	4233	2	20.67	13.32	38.5	PASS
Band5	4233	3	20.39	13.04	38.5	PASS
Band5	4233	4	20.22	12.87	38.5	PASS
Band5	4233	5	22.53	15.18	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)



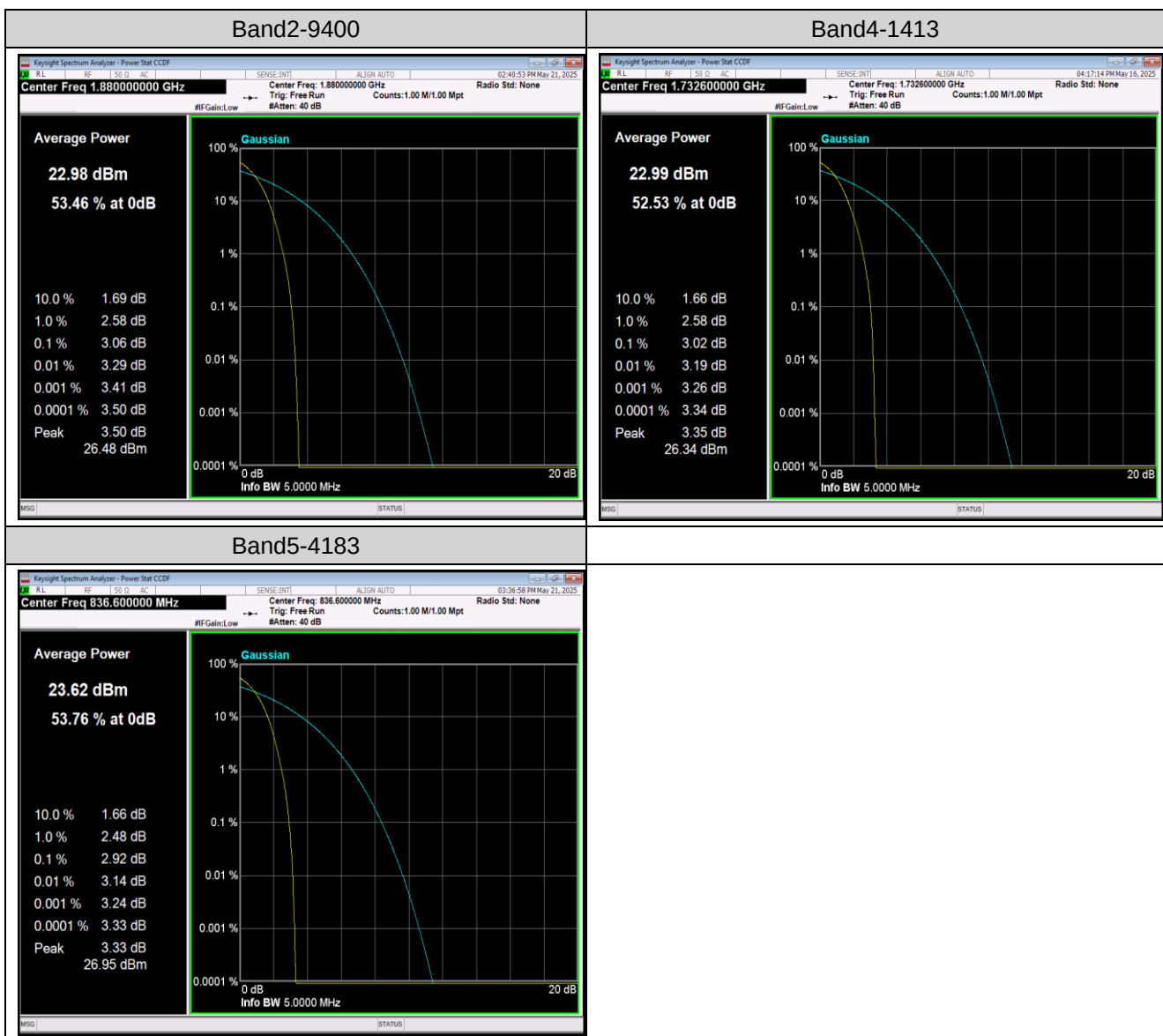
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.06	13	PASS
Band4	1413	3.02	13	PASS
Band5	4183	2.92	13	PASS

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

Test Graphs(WCDMA)





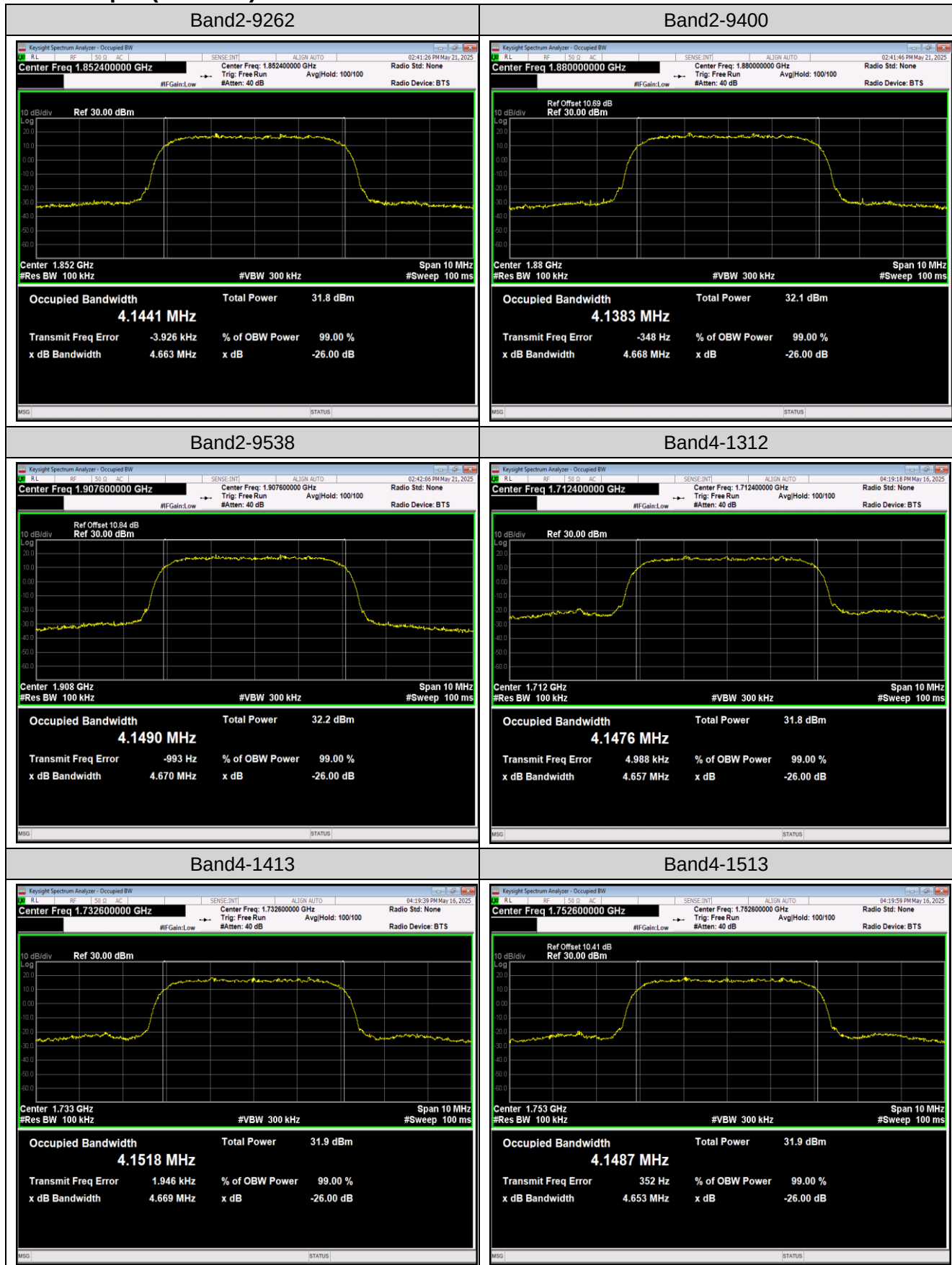
AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1489	4.663	---	PASS
Band2	9400	4.1345	4.668	---	PASS
Band2	9538	4.1436	4.670	---	PASS
Band4	1312	4.1476	4.657	---	PASS
Band4	1413	4.1518	4.669	---	PASS
Band4	1513	4.1487	4.653	---	PASS
Band5	4132	4.1476	4.663	---	PASS
Band5	4183	4.1494	4.675	---	PASS
Band5	4233	4.1489	4.667	---	PASS



Test Graphs(WCDMA)







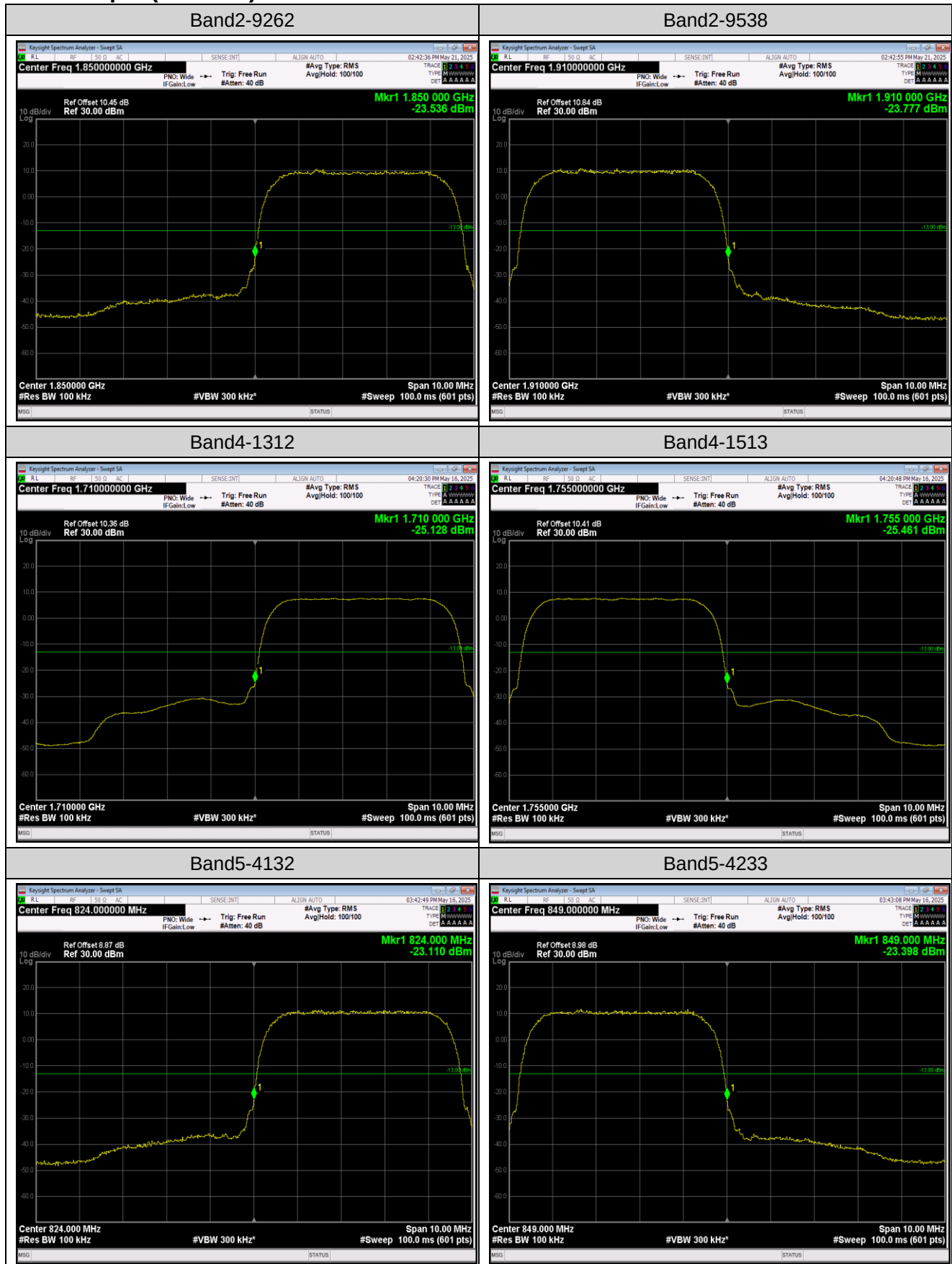
AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-23.54	-13	PASS
Band2	9538	1910.00	-23.78	-13	PASS
Band4	1312	1710.00	-25.13	-13	PASS
Band4	1513	1755.00	-25.46	-13	PASS
Band5	4132	824.00	-23.11	-13	PASS
Band5	4233	849.00	-23.40	-13	PASS



Test Graphs(WCDMA)





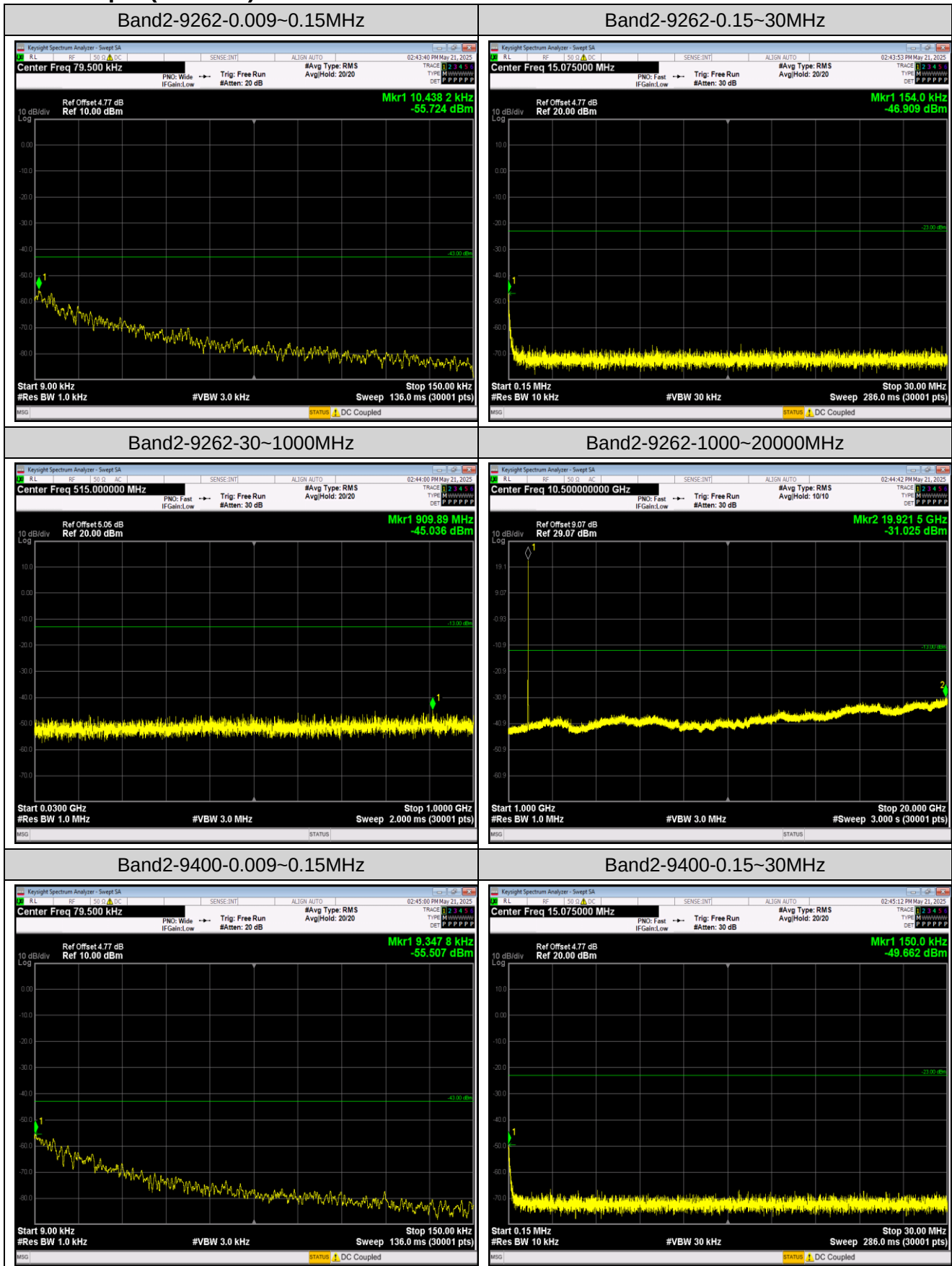
AppendixE:Conducted SpuriousEmission

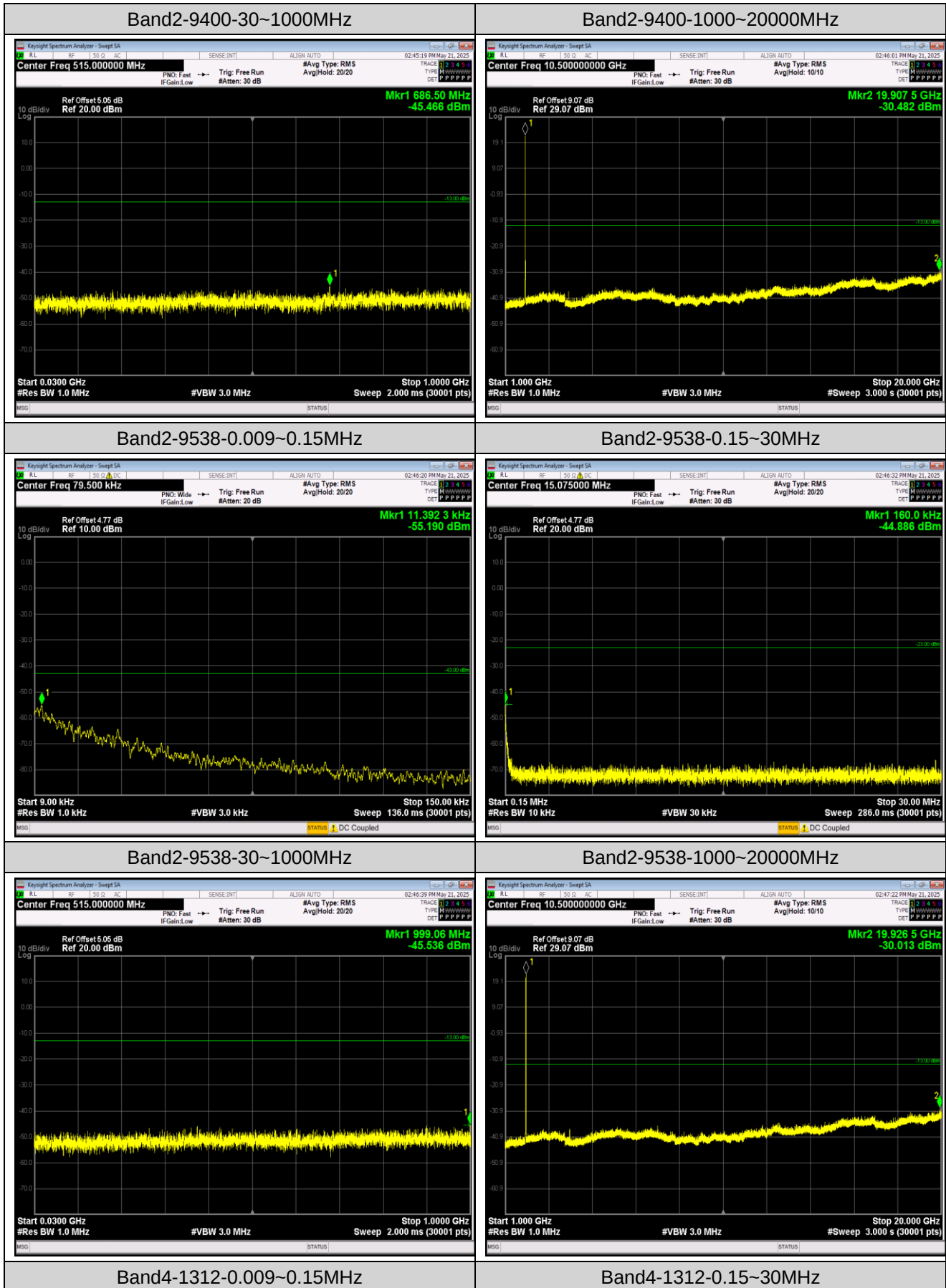
Test Result(WCDMA)

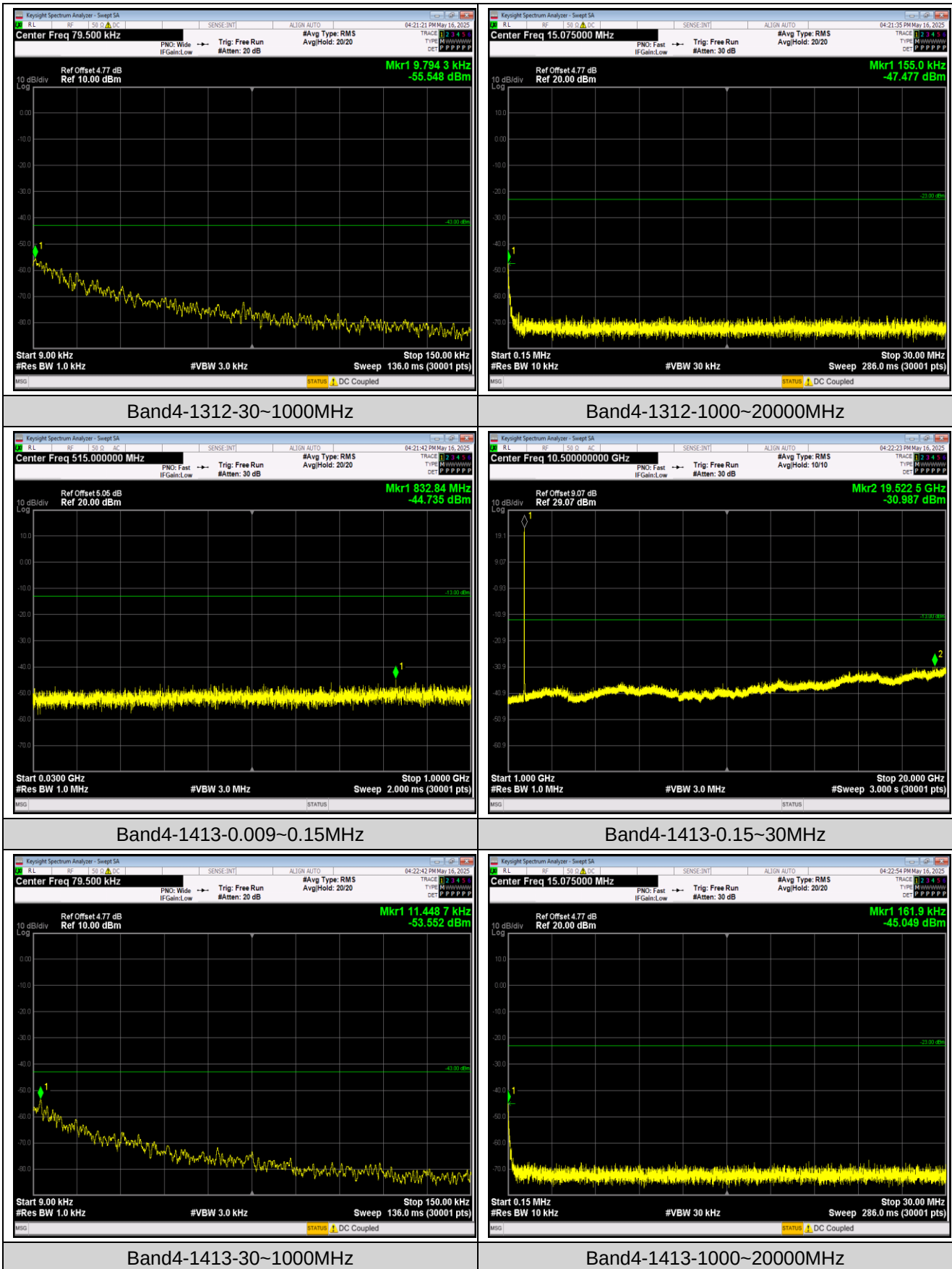
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.72	-43	PASS
Band2	9262	0.15~30MHz	0.15	-46.91	-23	PASS
Band2	9262	30~1000MHz	892.1	-45.04	-13	PASS
Band2	9262	1000~20000MHz	19939.83	-31.03	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-55.51	-43	PASS
Band2	9400	0.15~30MHz	0.16	-49.66	-23	PASS
Band2	9400	30~1000MHz	834.19	-45.47	-13	PASS
Band2	9400	1000~20000MHz	19994.3	-30.48	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-55.19	-43	PASS
Band2	9538	0.15~30MHz	0.17	-44.89	-23	PASS
Band2	9538	30~1000MHz	903.52	-45.54	-13	PASS
Band2	9538	1000~20000MHz	18730.8	-30.01	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-55.55	-43	PASS
Band4	1312	0.15~30MHz	0.15	-47.48	-23	PASS
Band4	1312	30~1000MHz	832.84	-44.74	-13	PASS
Band4	1312	1000~20000MHz	19522.47	-30.99	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-53.55	-43	PASS
Band4	1413	0.15~30MHz	0.16	-45.05	-23	PASS
Band4	1413	30~1000MHz	753.2	-45.63	-13	PASS
Band4	1413	1000~20000MHz	19914.5	-30.26	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-55.34	-43	PASS
Band4	1513	0.15~30MHz	0.15	-47.52	-23	PASS
Band4	1513	30~1000MHz	811.79	-45.77	-13	PASS
Band4	1513	1000~20000MHz	19922.1	-30.49	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.72	-33	PASS
Band5	4132	0.15~30MHz	0.15	-46.73	-13	PASS
Band5	4132	30~1000MHz	498.7	-54.59	-13	PASS
Band5	4132	1000~10000MHz	7366.3	-36.94	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.02	-33	PASS
Band5	4183	0.15~30MHz	0.15	-46.18	-13	PASS
Band5	4183	30~1000MHz	954.67	-54.8	-13	PASS
Band5	4183	1000~10000MHz	5962.3	-36.32	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.76	-33	PASS
Band5	4233	0.15~30MHz	0.15	-44.95	-13	PASS
Band5	4233	30~1000MHz	961.04	-54.74	-13	PASS
Band5	4233	1000~10000MHz	6073	-36.1	-13	PASS

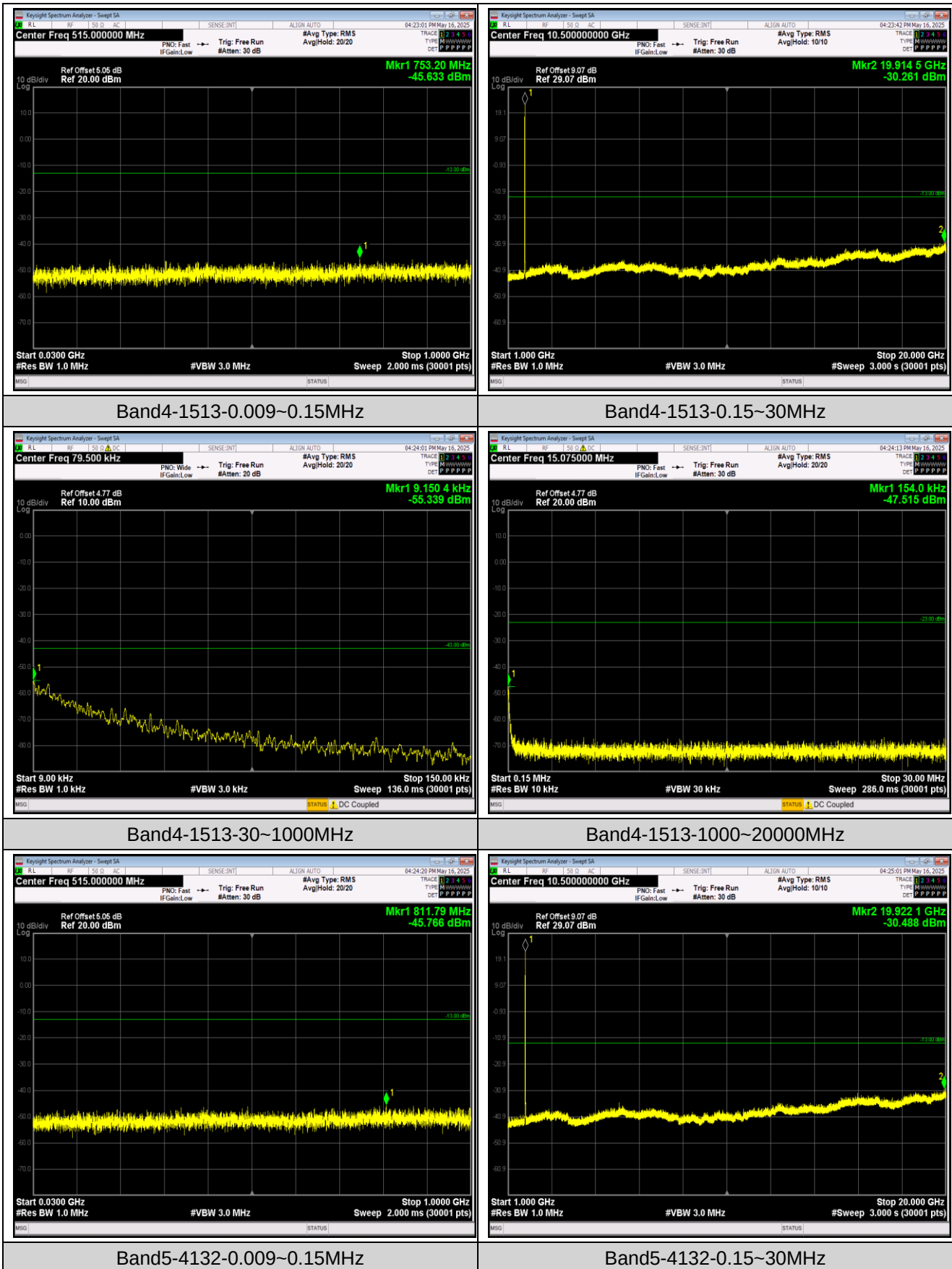


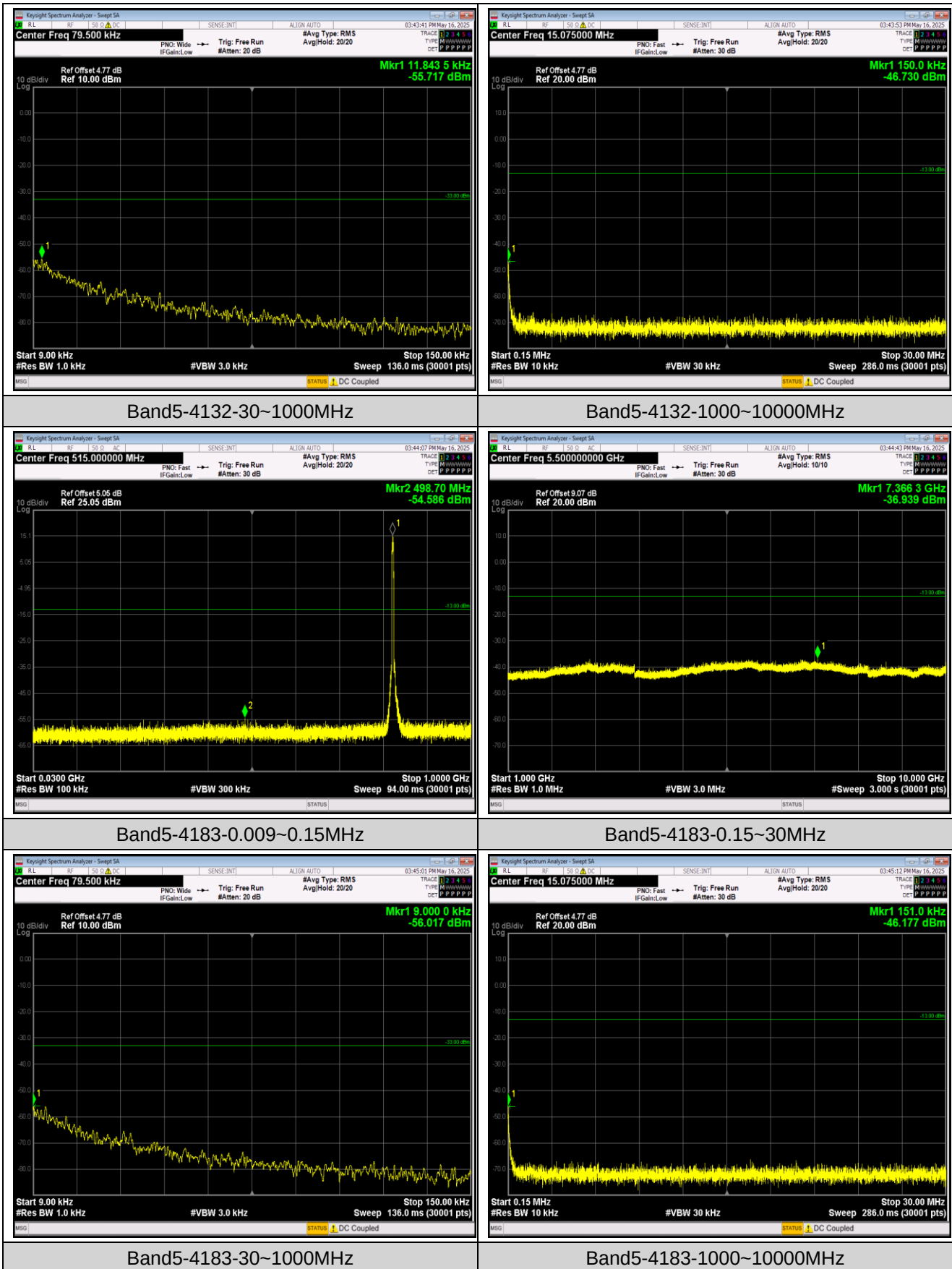
Test Graphs(WCDMA)

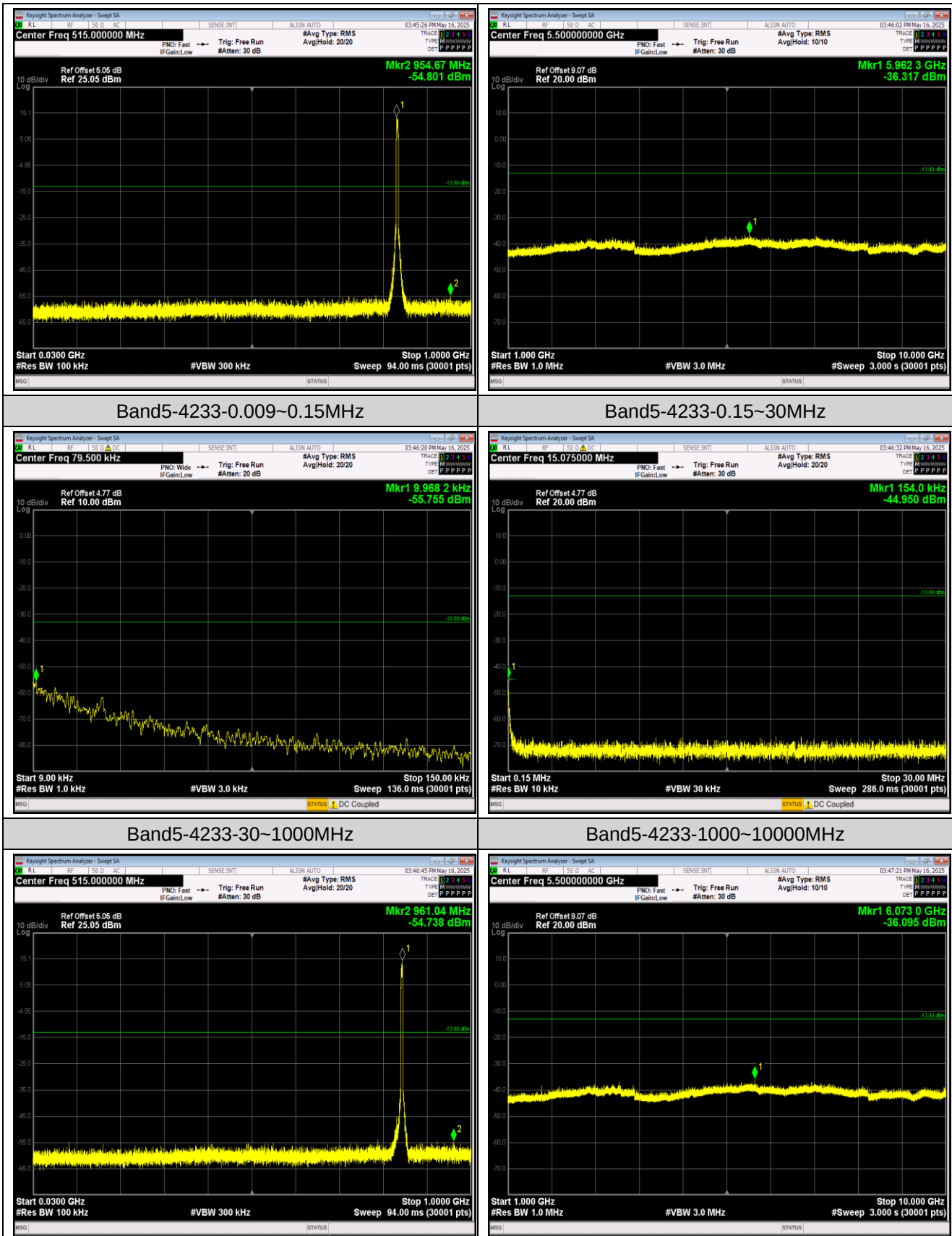














AppendixF:Frequency Stability

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		
3.87	-30	-0.30	-0.000359	±2.5	Pass
	-20	-0.40	-0.000478		
	-10	0.01	0.000012		
	0	-1.49	-0.001781		
	10	-1.35	-0.001614		
	20	-1.31	-0.001566		
	30	-0.99	-0.001183		
	40	0.90	0.001076		
	50	1.44	0.001721		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-2.42	-0.002893	±2.5	Pass
	3.87	-0.11	-0.000131		
	4.45	-1.29	-0.001542		
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		
3.87	-30	0.75	0.000433	Within authorized band for BAND IV	Pass
	-20	4.31	0.002488		
	-10	1.82	0.001050		
	0	-4.51	-0.002603		
	10	-3.27	-0.001887		
	20	-1.75	-0.001010		
	30	0.21	0.000121		
	40	1.47	0.000848		
	50	-2.39	-0.001379		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-3.73	-0.002153	Within authorized band for BAND IV	Pass
	3.87	1.14	0.000658		
	4.45	3.53	0.002037		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	-6.62	-0.003521	Within authorized band for BAND II	Pass
	-20	7.82	0.004160		
	-10	3.95	0.002101		
	0	2.94	0.001564		
	10	-4.23	-0.002250		
	20	0.30	0.000160		
	30	9.71	0.005165		
	40	2.42	0.001287		
	50	0.84	0.000447		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	3.92	0.002085	Within authorized band for BAND II	Pass
	3.87	2.05	0.001090		
	4.45	-4.91	-0.002612		
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

