

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	22.15	18.8	33.01	PASS
Band2	TestMode	9262	22.07	18.72	33.01	PASS
Band2	TestMode	9400	22.40	19.05	33.01	PASS
Band2	Voice	9400	22.42	19.07	33.01	PASS
Band2	TestMode	9538	22.46	19.11	33.01	PASS
Band2	Voice	9538	22.44	19.09	33.01	PASS
Band4	Voice	1312	22.58	19.23	30.00	PASS
Band4	TestMode	1312	22.60	19.25	30.00	PASS
Band4	Voice	1413	22.68	19.33	30.00	PASS
Band4	TestMode	1413	22.71	19.36	30.00	PASS
Band4	TestMode	1513	22.71	19.36	30.00	PASS
Band4	Voice	1513	22.68	19.33	30.00	PASS
Band5	Voice	4132	22.74	16.38	38.45	PASS
Band5	TestMode	4132	22.73	16.37	38.45	PASS
Band5	TestMode	4183	22.92	16.56	38.45	PASS
Band5	Voice	4183	22.93	16.57	38.45	PASS
Band5	Voice	4233	22.85	16.49	38.45	PASS
Band5	TestMode	4233	22.82	16.46	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.13	17.78	33.01	PASS
Band2	9262	2	20.54	17.19	33.01	PASS
Band2	9262	3	20.57	17.22	33.01	PASS
Band2	9262	4	20.55	17.2	33.01	PASS
Band2	9400	1	21.39	18.04	33.01	PASS
Band2	9400	2	20.84	17.49	33.01	PASS
Band2	9400	3	20.81	17.46	33.01	PASS
Band2	9400	4	20.79	17.44	33.01	PASS
Band2	9538	1	21.47	18.12	33.01	PASS
Band2	9538	2	20.89	17.54	33.01	PASS
Band2	9538	3	20.89	17.54	33.01	PASS
Band2	9538	4	20.85	17.5	33.01	PASS

Band4	1312	1	21.63	18.28	30.00	PASS
Band4	1312	2	21.08	17.73	30.00	PASS
Band4	1312	3	21.11	17.76	30.00	PASS
Band4	1312	4	21.05	17.7	30.00	PASS
Band4	1413	1	21.74	18.39	30.00	PASS
Band4	1413	2	21.20	17.85	30.00	PASS
Band4	1413	3	21.21	17.86	30.00	PASS
Band4	1413	4	21.20	17.85	30.00	PASS
Band4	1513	1	21.73	18.38	30.00	PASS
Band4	1513	2	21.20	17.85	30.00	PASS
Band4	1513	3	21.19	17.84	30.00	PASS
Band4	1513	4	21.19	17.84	30.00	PASS
Band5	4132	1	21.79	15.43	38.5	PASS
Band5	4132	2	21.25	14.89	38.5	PASS
Band5	4132	3	21.28	14.92	38.5	PASS
Band5	4132	4	21.25	14.89	38.5	PASS
Band5	4183	1	22.01	15.65	38.5	PASS
Band5	4183	2	21.48	15.12	38.5	PASS
Band5	4183	3	21.49	15.13	38.5	PASS
Band5	4183	4	21.46	15.1	38.5	PASS
Band5	4233	1	21.90	15.54	38.5	PASS
Band5	4233	2	21.36	15	38.5	PASS
Band5	4233	3	21.45	15.09	38.5	PASS
Band5	4233	4	21.37	15.01	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.10	15.75	33.01	PASS
Band2	9262	2	19.55	16.2	33.01	PASS
Band2	9262	3	20.06	16.71	33.01	PASS
Band2	9262	4	19.11	15.76	33.01	PASS
Band2	9262	5	21.06	17.71	33.01	PASS
Band2	9400	1	19.38	16.03	33.01	PASS
Band2	9400	2	19.84	16.49	33.01	PASS
Band2	9400	3	20.35	17	33.01	PASS
Band2	9400	4	19.39	16.04	33.01	PASS
Band2	9400	5	21.32	17.97	33.01	PASS
Band2	9538	1	19.38	16.03	33.01	PASS
Band2	9538	2	19.91	16.56	33.01	PASS
Band2	9538	3	20.42	17.07	33.01	PASS

Band2	9538	4	19.41	16.06	33.01	PASS
Band2	9538	5	21.41	18.06	33.01	PASS
Band4	1312	1	19.65	16.3	30.00	PASS
Band4	1312	2	20.10	16.75	30.00	PASS
Band4	1312	3	20.62	17.27	30.00	PASS
Band4	1312	4	19.66	16.31	30.00	PASS
Band4	1312	5	21.62	18.27	30.00	PASS
Band4	1413	1	19.76	16.41	30.00	PASS
Band4	1413	2	20.22	16.87	30.00	PASS
Band4	1413	3	20.71	17.36	30.00	PASS
Band4	1413	4	19.78	16.43	30.00	PASS
Band4	1413	5	21.72	18.37	30.00	PASS
Band4	1513	1	19.76	16.41	30.00	PASS
Band4	1513	2	20.22	16.87	30.00	PASS
Band4	1513	3	20.71	17.36	30.00	PASS
Band4	1513	4	19.76	16.41	30.00	PASS
Band4	1513	5	21.73	18.38	30.00	PASS
Band5	4132	1	19.80	13.44	38.5	PASS
Band5	4132	2	20.29	13.93	38.5	PASS
Band5	4132	3	20.81	14.45	38.5	PASS
Band5	4132	4	19.79	13.43	38.5	PASS
Band5	4132	5	21.78	15.42	38.5	PASS
Band5	4183	1	20.01	13.65	38.5	PASS
Band5	4183	2	20.49	14.13	38.5	PASS
Band5	4183	3	20.99	14.63	38.5	PASS
Band5	4183	4	20.02	13.66	38.5	PASS
Band5	4183	5	21.99	15.63	38.5	PASS
Band5	4233	1	19.91	13.55	38.5	PASS
Band5	4233	2	20.39	14.03	38.5	PASS
Band5	4233	3	20.88	14.52	38.5	PASS
Band5	4233	4	19.92	13.56	38.5	PASS
Band5	4233	5	21.87	15.51	38.5	PASS

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

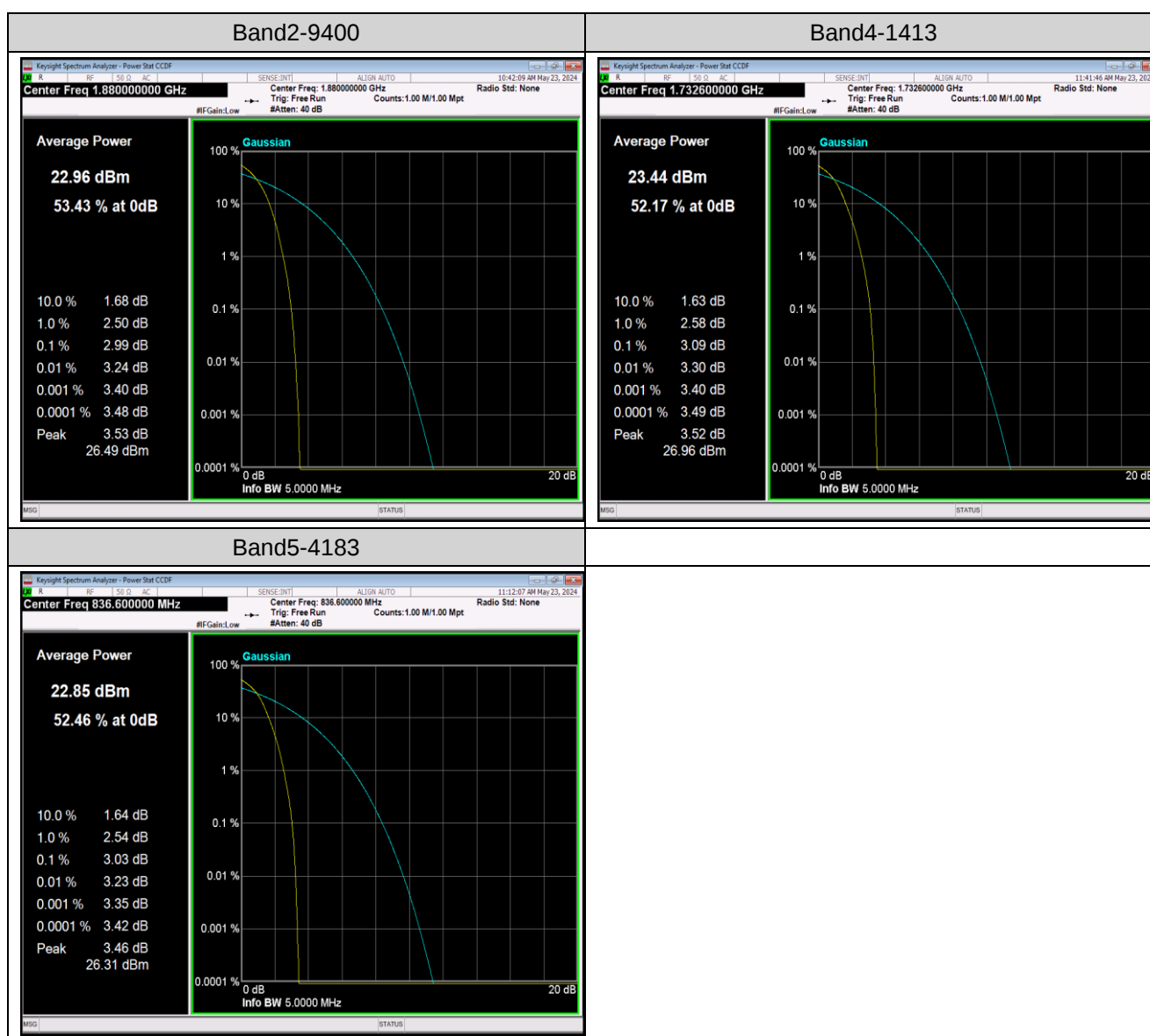
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.99	13	PASS
Band4	1413	3.09	13	PASS
Band5	4183	3.03	13	PASS

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

Test Graphs(WCDMA)

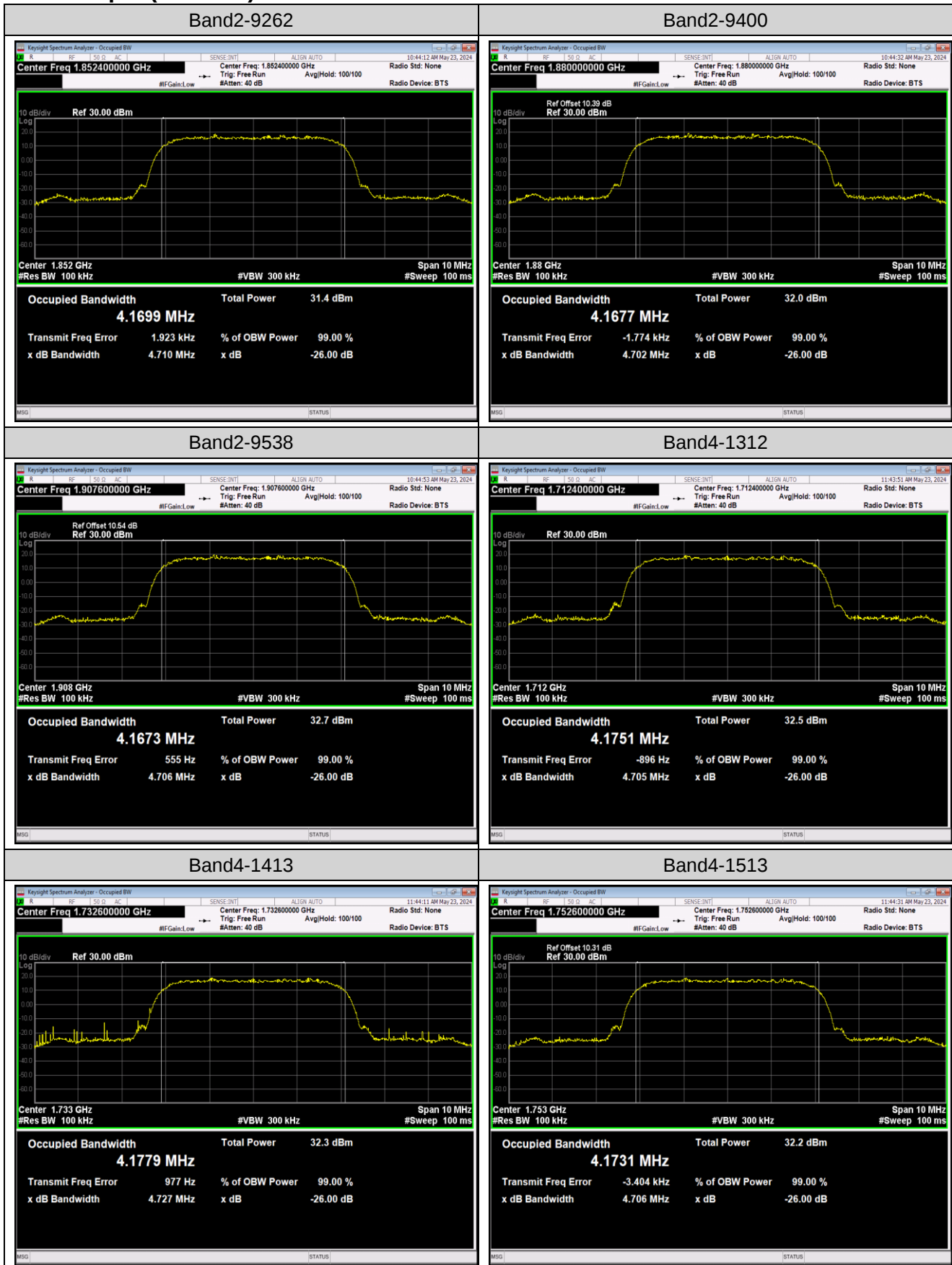


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1699	4.710	---	PASS
Band2	9400	4.1677	4.702	---	PASS
Band2	9538	4.1673	4.706	---	PASS
Band4	1312	4.1751	4.705	---	PASS
Band4	1413	4.1779	4.727	---	PASS
Band4	1513	4.1731	4.706	---	PASS
Band5	4132	4.1704	4.691	---	PASS
Band5	4183	4.1889	4.994	---	PASS
Band5	4233	4.1678	4.698	---	PASS

Test Graphs(WCDMA)



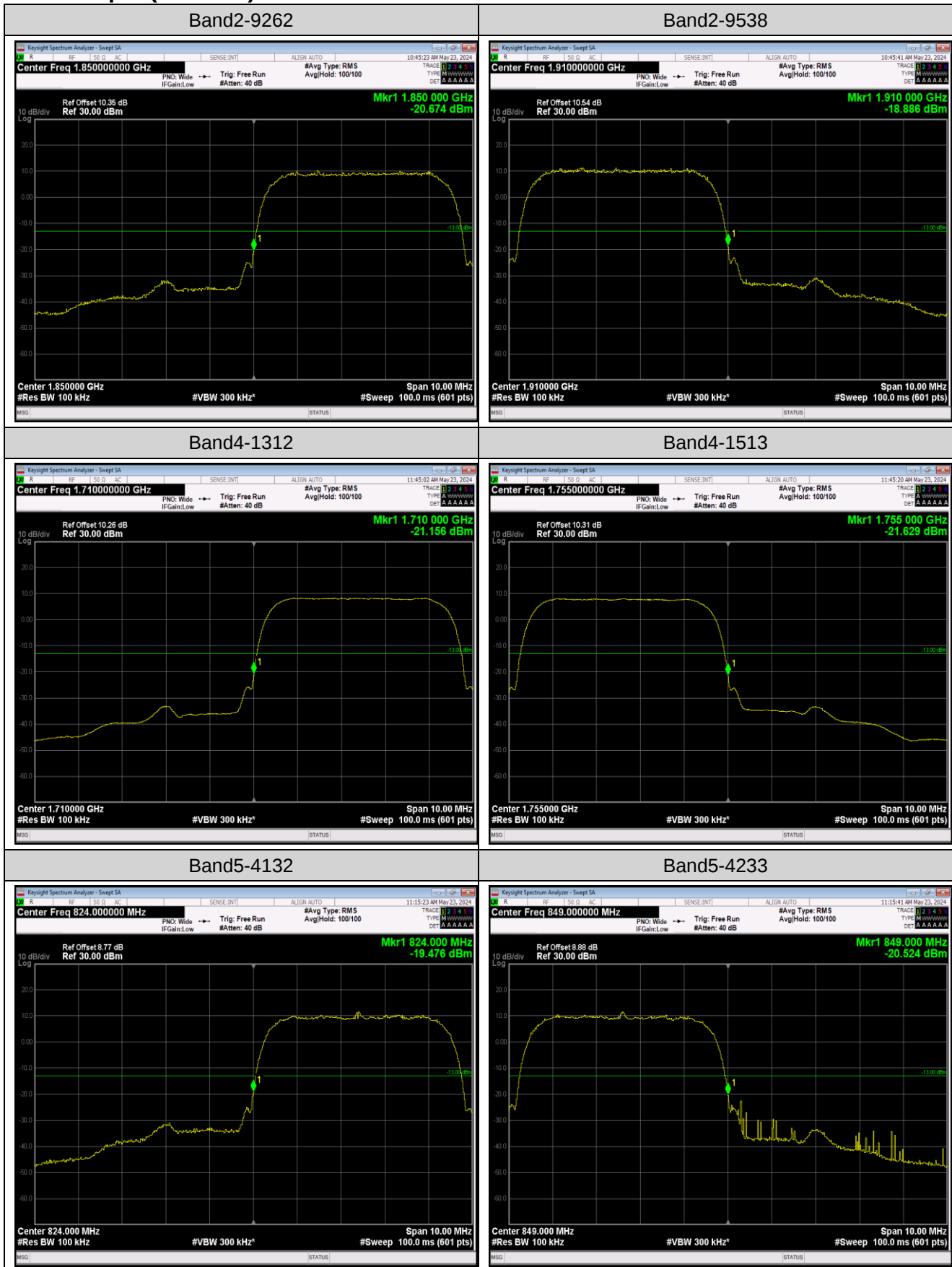


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.67	-13	PASS
Band2	9538	1910.00	-18.89	-13	PASS
Band4	1312	1710.00	-21.16	-13	PASS
Band4	1513	1755.00	-21.63	-13	PASS
Band5	4132	824.00	-19.48	-13	PASS
Band5	4233	849.00	-20.52	-13	PASS

Test Graphs(WCDMA)



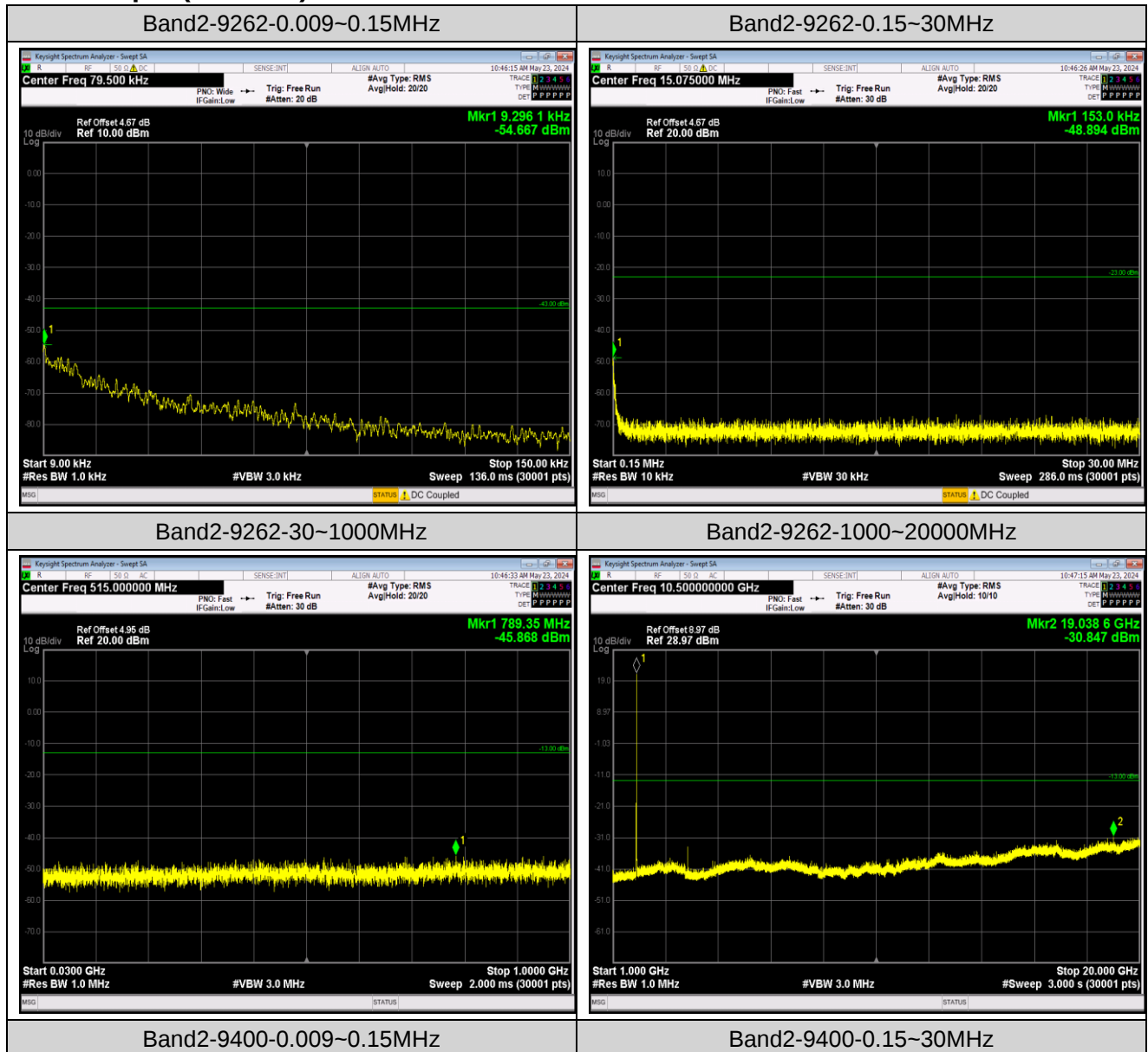
AppendixE:Conducted SpuriousEmission

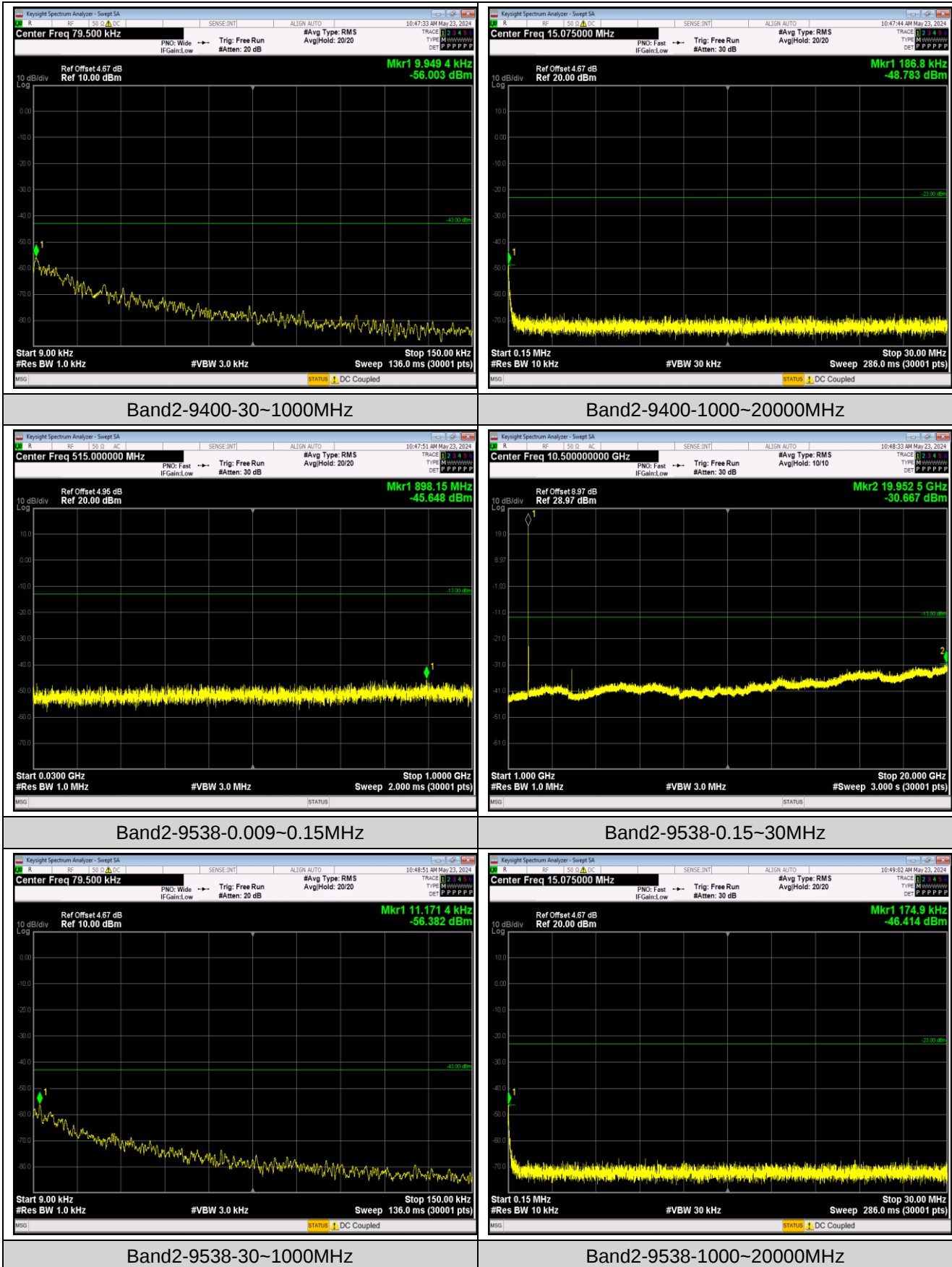
Test Result(WCDMA)

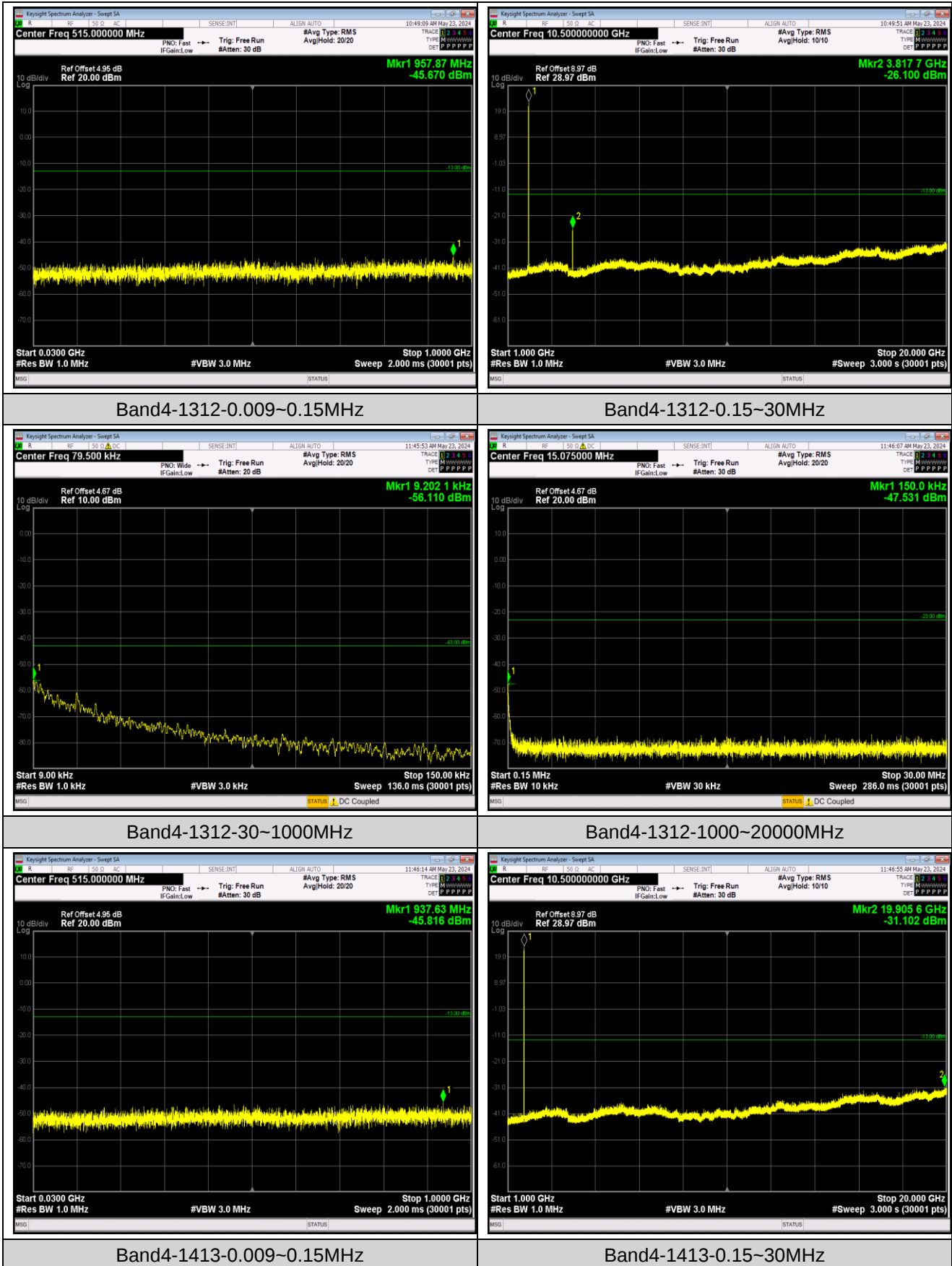
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.67	-43	PASS
Band2	9262	0.15~30MHz	0.15	-48.89	-23	PASS
Band2	9262	30~1000MHz	789.35	-45.87	-13	PASS
Band2	9262	1000~20000MHz	19038.6	-30.85	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56	-43	PASS
Band2	9400	0.15~30MHz	0.19	-48.78	-23	PASS
Band2	9400	30~1000MHz	898.15	-45.65	-13	PASS
Band2	9400	1000~20000MHz	19952.5	-30.67	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.38	-43	PASS
Band2	9538	0.15~30MHz	0.17	-46.41	-23	PASS
Band2	9538	30~1000MHz	957.87	-45.67	-13	PASS
Band2	9538	1000~20000MHz	3817.7	-26.1	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.11	-43	PASS
Band4	1312	0.15~30MHz	0.15	-47.53	-23	PASS
Band4	1312	30~1000MHz	937.63	-45.82	-13	PASS
Band4	1312	1000~20000MHz	19905.63	-31.1	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.28	-43	PASS
Band4	1413	0.15~30MHz	0.15	-43.58	-23	PASS
Band4	1413	30~1000MHz	912.51	-46.3	-13	PASS
Band4	1413	1000~20000MHz	19989.23	-30.54	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.43	-43	PASS
Band4	1513	0.15~30MHz	0.16	-47.76	-23	PASS
Band4	1513	30~1000MHz	800.47	-45.71	-13	PASS
Band4	1513	1000~20000MHz	19884.73	-31.15	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-57.25	-33	PASS
Band5	4132	0.15~30MHz	0.16	-49.29	-13	PASS
Band5	4132	30~1000MHz	340.56	-55.41	-13	PASS
Band5	4132	1000~10000MHz	7259.8	-36.84	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-57.07	-33	PASS
Band5	4183	0.15~30MHz	0.15	-46.97	-13	PASS
Band5	4183	30~1000MHz	950.66	-54.91	-13	PASS
Band5	4183	1000~10000MHz	7398.1	-36.96	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-54.03	-33	PASS
Band5	4233	0.15~30MHz	0.15	-47.3	-13	PASS
Band5	4233	30~1000MHz	583.03	-54.27	-13	PASS

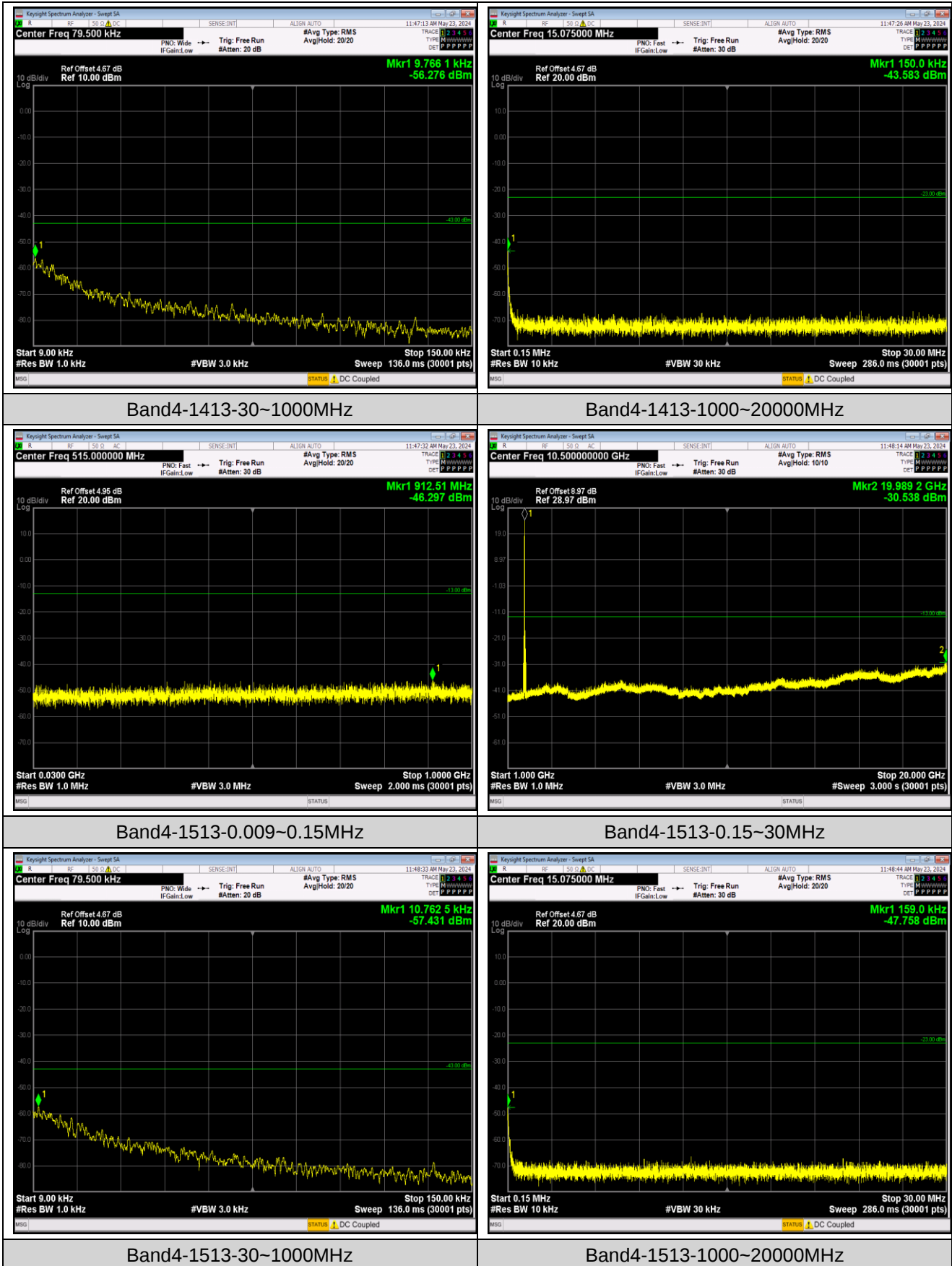
Band5	4233	1000~10000MHz	5954.2	-36.87	-13	PASS
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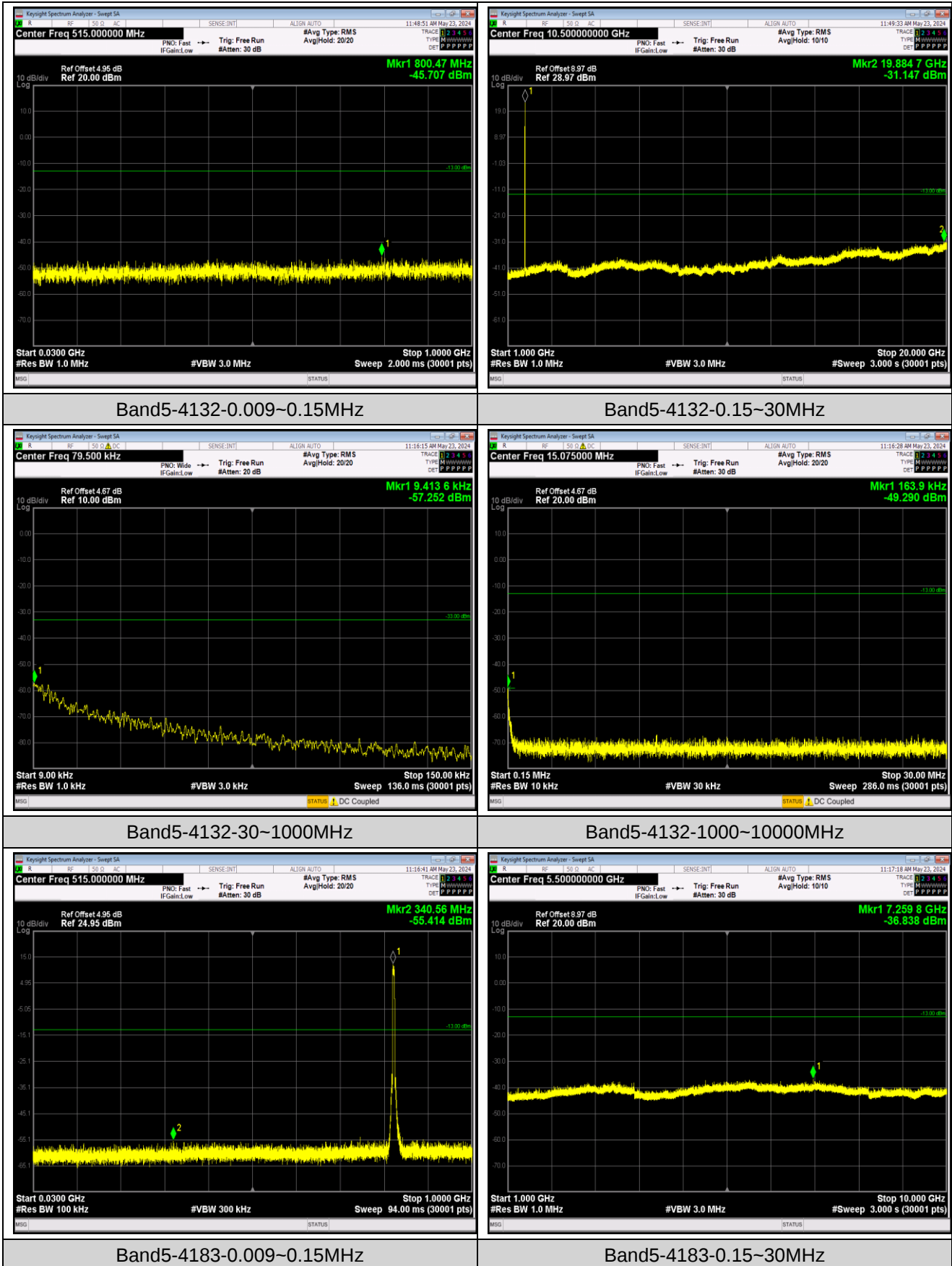
Test Graphs(WCDMA)

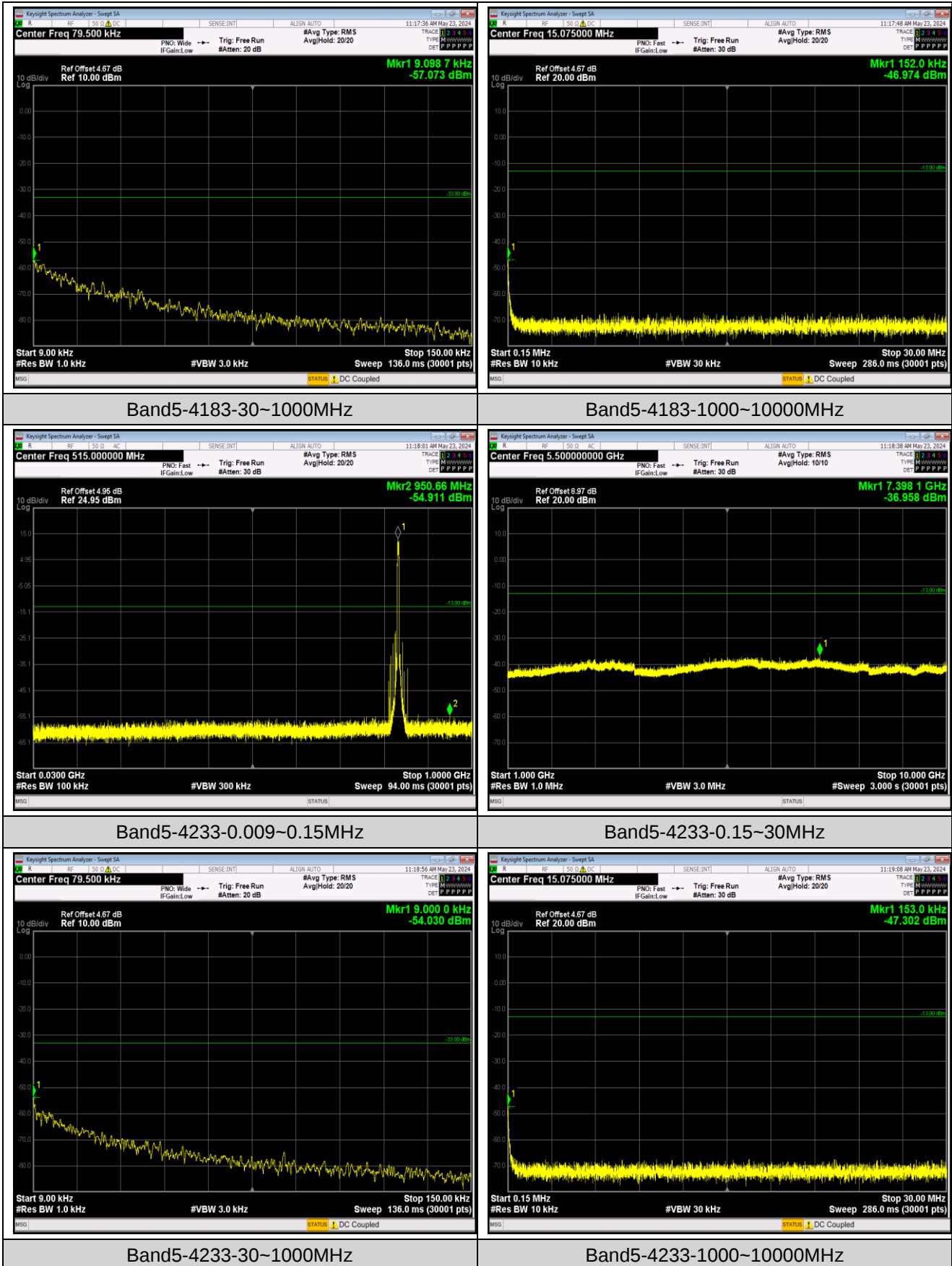


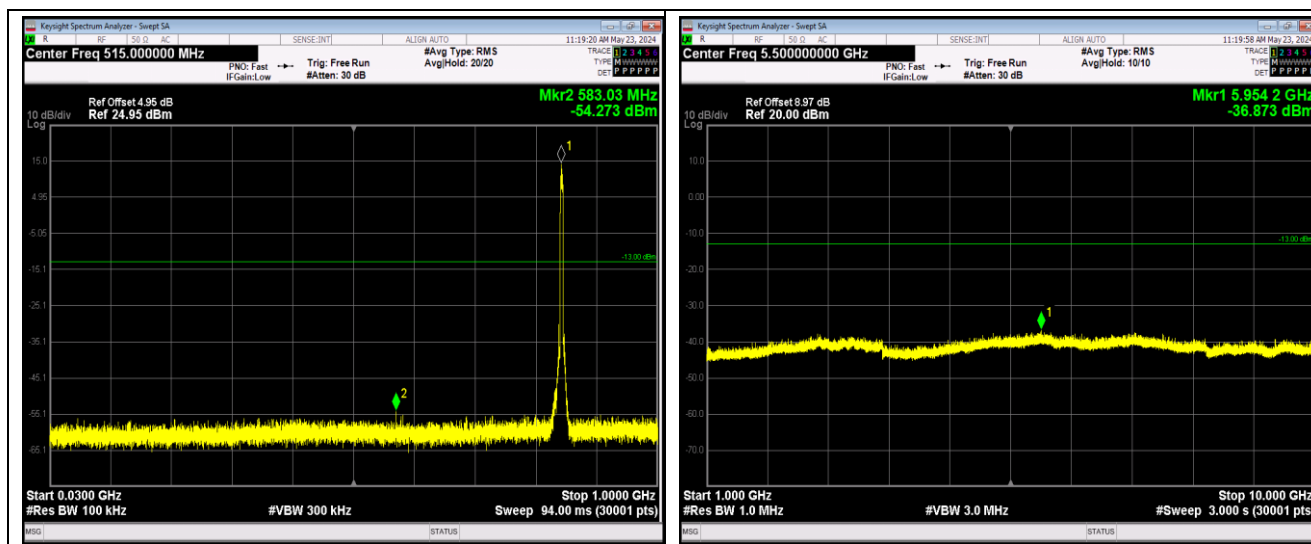












AppendixF:Frequency Stability

Test Result

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-8.18	-0.009778	±2.5	Pass
	-20	-3.30	-0.003945		
	-10	-6.65	-0.007949		
	0	-7.20	-0.008606		
	10	-9.18	-0.010973		
	20	-3.40	-0.004064		
	30	-7.75	-0.009264		
	40	-7.45	-0.008905		
	50	-8.23	-0.009837		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-9.53	-0.011391	±2.5	Pass
	3.85	-12.43	-0.014858		
	4.40	-9.35	-0.011176		
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		
3.85	-30	-13.18	-0.007607	Within authorized band for BAND IV	Pass
	-20	-14.66	-0.008461		
	-10	-12.15	-0.007013		
	0	-12.15	-0.007013		
	10	-11.98	-0.006914		
	20	-15.90	-0.009177		
	30	-14.63	-0.008444		
	40	-14.12	-0.008150		
	50	-12.75	-0.007359		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-12.32	-0.007111	Within authorized band for BAND IV	Pass
	3.85	-8.08	-0.004664		
	4.40	-12.80	-0.007388		
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		
3.85	-30	-7.60	-0.004043	Within authorized band for BAND II	Pass
	-20	-6.86	-0.003649		
	-10	-7.82	-0.004160		
	0	-11.02	-0.005862		
	10	-11.24	-0.005979		
	20	-10.65	-0.005665		
	30	-12.08	-0.006426		
	40	-12.40	-0.006596		
	50	-12.41	-0.006601		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-9.06	-0.004819	Within authorized band for BAND II	Pass
	3.85	-7.74	-0.004117		
	4.40	-9.21	-0.004899		
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

