

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	23.47	22.71	33	PASS
Band2	TestMode	9262	23.49	22.73	33	PASS
Band2	TestMode	9400	23.39	22.63	33	PASS
Band2	Voice	9400	23.39	22.63	33	PASS
Band2	TestMode	9538	23.41	22.65	33	PASS
Band2	Voice	9538	23.36	22.6	33	PASS
Band4	Voice	1312	23.12	23.44	30	PASS
Band4	TestMode	1312	23.12	23.44	30	PASS
Band4	Voice	1413	23.33	23.65	30	PASS
Band4	TestMode	1413	23.37	23.69	30	PASS
Band4	TestMode	1513	23.23	23.55	30	PASS
Band4	Voice	1513	23.16	23.48	30	PASS
Band5	Voice	4132	23.55	18.02	38.5	PASS
Band5	TestMode	4132	23.55	18.02	38.5	PASS
Band5	TestMode	4183	23.75	18.22	38.5	PASS
Band5	Voice	4183	23.70	18.17	38.5	PASS
Band5	Voice	4233	23.68	18.15	38.5	PASS
Band5	TestMode	4233	23.68	18.15	38.5	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.47	21.71	33	PASS
Band2	9262	2	21.93	21.17	33	PASS
Band2	9262	3	21.92	21.16	33	PASS
Band2	9262	4	21.92	21.16	33	PASS
Band2	9400	1	22.39	21.63	33	PASS
Band2	9400	2	21.83	21.07	33	PASS
Band2	9400	3	21.83	21.07	33	PASS
Band2	9400	4	21.92	21.16	33	PASS
Band2	9538	1	22.38	21.62	33	PASS
Band2	9538	2	21.83	21.07	33	PASS
Band2	9538	3	21.86	21.1	33	PASS
Band2	9538	4	21.88	21.12	33	PASS
Band4	1312	1	22.15	22.47	30	PASS
Band4	1312	2	21.70	22.02	30	PASS

Band4	1312	3	21.70	22.02	30	PASS
Band4	1312	4	21.63	21.95	30	PASS
Band4	1413	1	22.41	22.73	30	PASS
Band4	1413	2	21.98	22.3	30	PASS
Band4	1413	3	21.90	22.22	30	PASS
Band4	1413	4	21.85	22.17	30	PASS
Band4	1513	1	22.24	22.56	30	PASS
Band4	1513	2	21.85	22.17	30	PASS
Band4	1513	3	21.74	22.06	30	PASS
Band4	1513	4	21.72	22.04	30	PASS
Band5	4132	1	22.60	17.07	38.5	PASS
Band5	4132	2	22.08	16.55	38.5	PASS
Band5	4132	3	22.09	16.56	38.5	PASS
Band5	4132	4	22.05	16.52	38.5	PASS
Band5	4183	1	22.77	17.24	38.5	PASS
Band5	4183	2	22.22	16.69	38.5	PASS
Band5	4183	3	22.33	16.8	38.5	PASS
Band5	4183	4	22.22	16.69	38.5	PASS
Band5	4233	1	22.75	17.22	38.5	PASS
Band5	4233	2	22.25	16.72	38.5	PASS
Band5	4233	3	22.25	16.72	38.5	PASS
Band5	4233	4	22.23	16.7	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.48	19.72	33	PASS
Band2	9262	2	20.95	20.19	33	PASS
Band2	9262	3	21.48	20.72	33	PASS
Band2	9262	4	20.46	19.7	33	PASS
Band2	9262	5	22.48	21.72	33	PASS
Band2	9400	1	20.34	19.58	33	PASS
Band2	9400	2	20.87	20.11	33	PASS
Band2	9400	3	21.37	20.61	33	PASS
Band2	9400	4	20.40	19.64	33	PASS
Band2	9400	5	22.37	21.61	33	PASS
Band2	9538	1	20.37	19.61	33	PASS
Band2	9538	2	20.91	20.15	33	PASS
Band2	9538	3	21.35	20.59	33	PASS
Band2	9538	4	20.41	19.65	33	PASS
Band2	9538	5	22.40	21.64	33	PASS
Band4	1312	1	20.20	20.52	30	PASS

Band4	1312	2	20.67	20.99	30	PASS
Band4	1312	3	21.16	21.48	30	PASS
Band4	1312	4	20.21	20.53	30	PASS
Band4	1312	5	22.20	22.52	30	PASS
Band4	1413	1	20.44	20.76	30	PASS
Band4	1413	2	20.94	21.26	30	PASS
Band4	1413	3	21.41	21.73	30	PASS
Band4	1413	4	20.44	20.76	30	PASS
Band4	1413	5	22.46	22.78	30	PASS
Band4	1513	1	20.29	20.61	30	PASS
Band4	1513	2	20.78	21.1	30	PASS
Band4	1513	3	21.29	21.61	30	PASS
Band4	1513	4	20.28	20.6	30	PASS
Band4	1513	5	22.28	22.6	30	PASS
Band5	4132	1	20.63	15.1	38.5	PASS
Band5	4132	2	21.11	15.58	38.5	PASS
Band5	4132	3	21.61	16.08	38.5	PASS
Band5	4132	4	20.63	15.1	38.5	PASS
Band5	4132	5	22.60	17.07	38.5	PASS
Band5	4183	1	20.80	15.27	38.5	PASS
Band5	4183	2	21.29	15.76	38.5	PASS
Band5	4183	3	21.81	16.28	38.5	PASS
Band5	4183	4	20.80	15.27	38.5	PASS
Band5	4183	5	22.82	17.29	38.5	PASS
Band5	4233	1	20.79	15.26	38.5	PASS
Band5	4233	2	21.31	15.78	38.5	PASS
Band5	4233	3	21.81	16.28	38.5	PASS
Band5	4233	4	20.80	15.27	38.5	PASS
Band5	4233	5	22.77	17.24	38.5	PASS

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

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

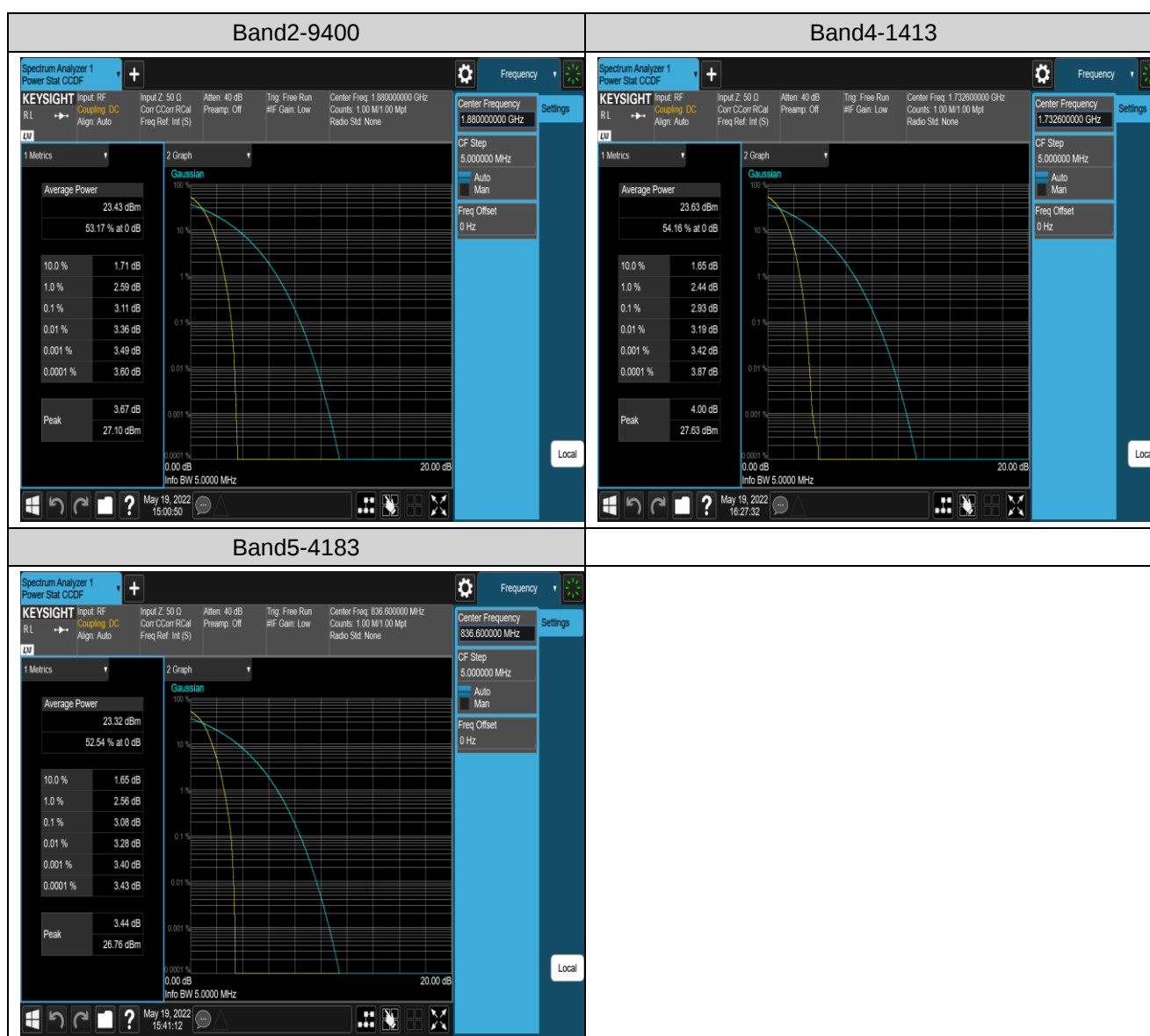
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.11	13	PASS
Band4	1413	2.93	13	PASS
Band5	4183	3.08	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	4.1584	4.704	---	PASS
Band2	9400	4.1537	4.696	---	PASS
Band2	9538	4.1502	4.695	---	PASS
Band4	1312	4.1610	4.721	---	PASS
Band4	1413	4.1531	4.709	---	PASS
Band4	1513	4.1638	4.732	---	PASS
Band5	4132	4.1509	4.693	---	PASS
Band5	4183	4.1627	4.696	---	PASS
Band5	4233	4.1593	4.704	---	PASS

Test Graphs(WCDMA)





AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.78	-13	PASS
Band2	9538	1910.00	-20.03	-13	PASS
Band4	1312	1710.00	-21.15	-13	PASS
Band4	1513	1755.00	-18.70	-13	PASS
Band5	4132	824.00	-19.74	-13	PASS
Band5	4233	849.00	-19.63	-13	PASS

Test Graphs(WCDMA)

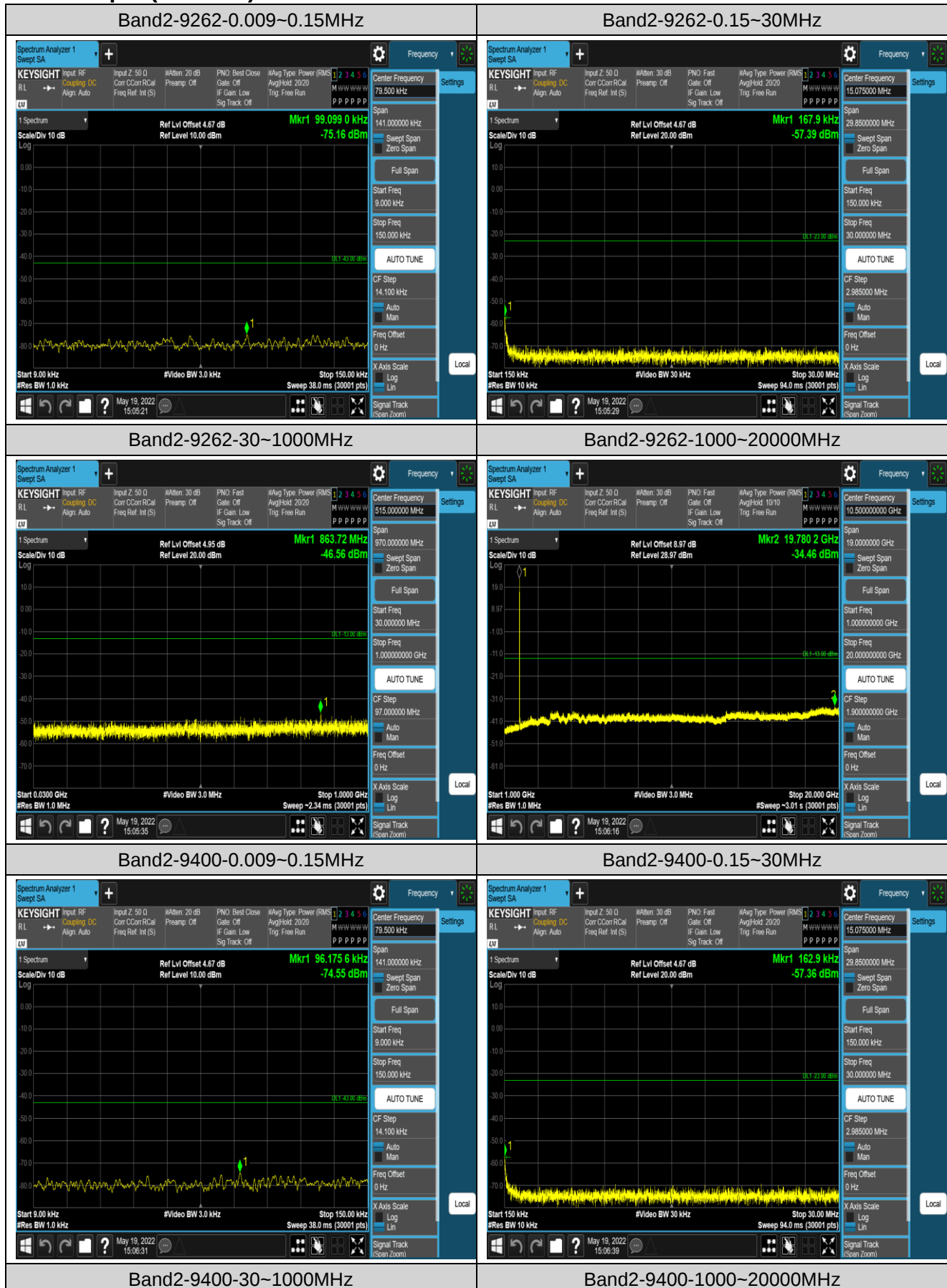


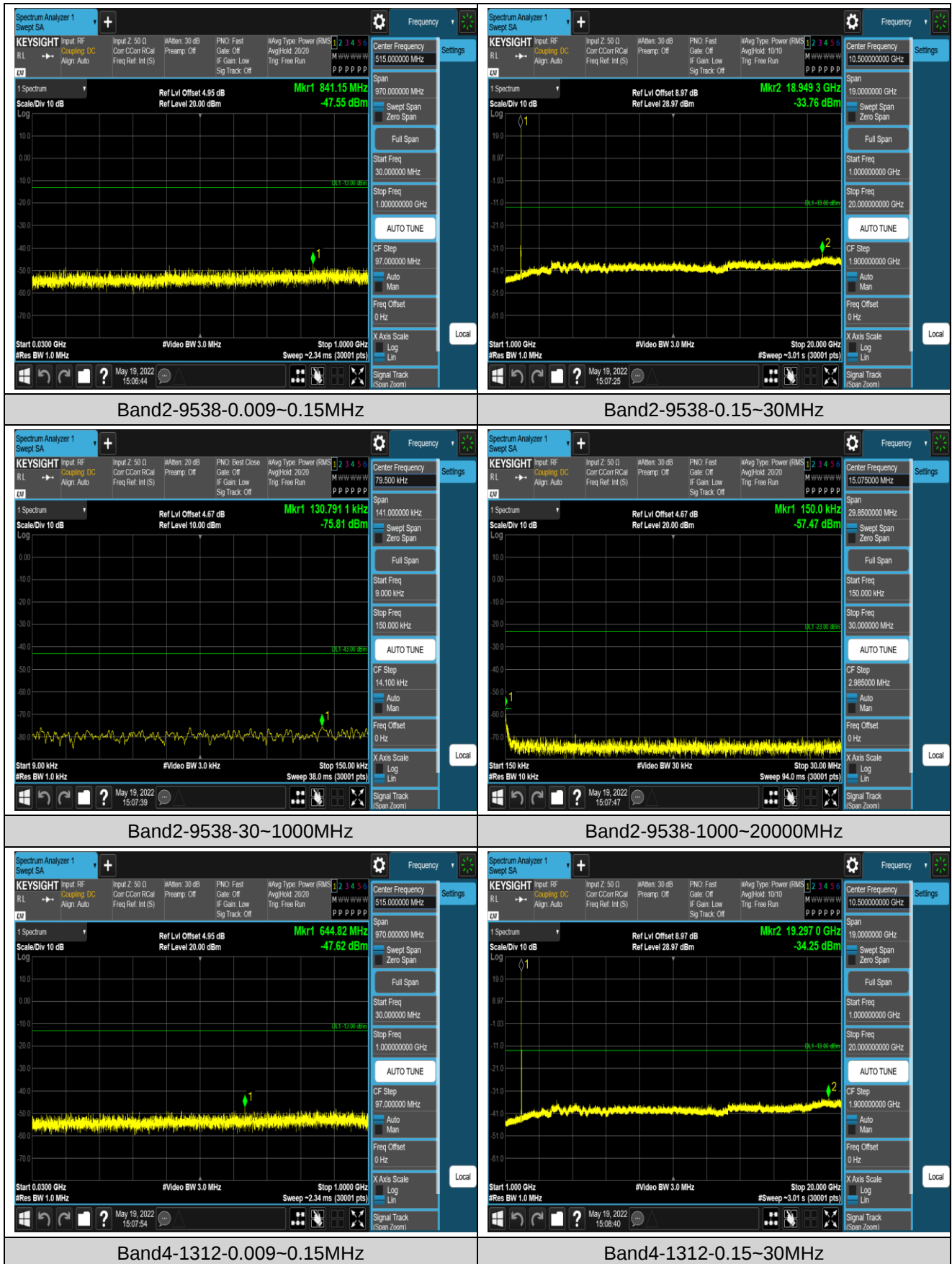
AppendixE:Conducted SpuriousEmission

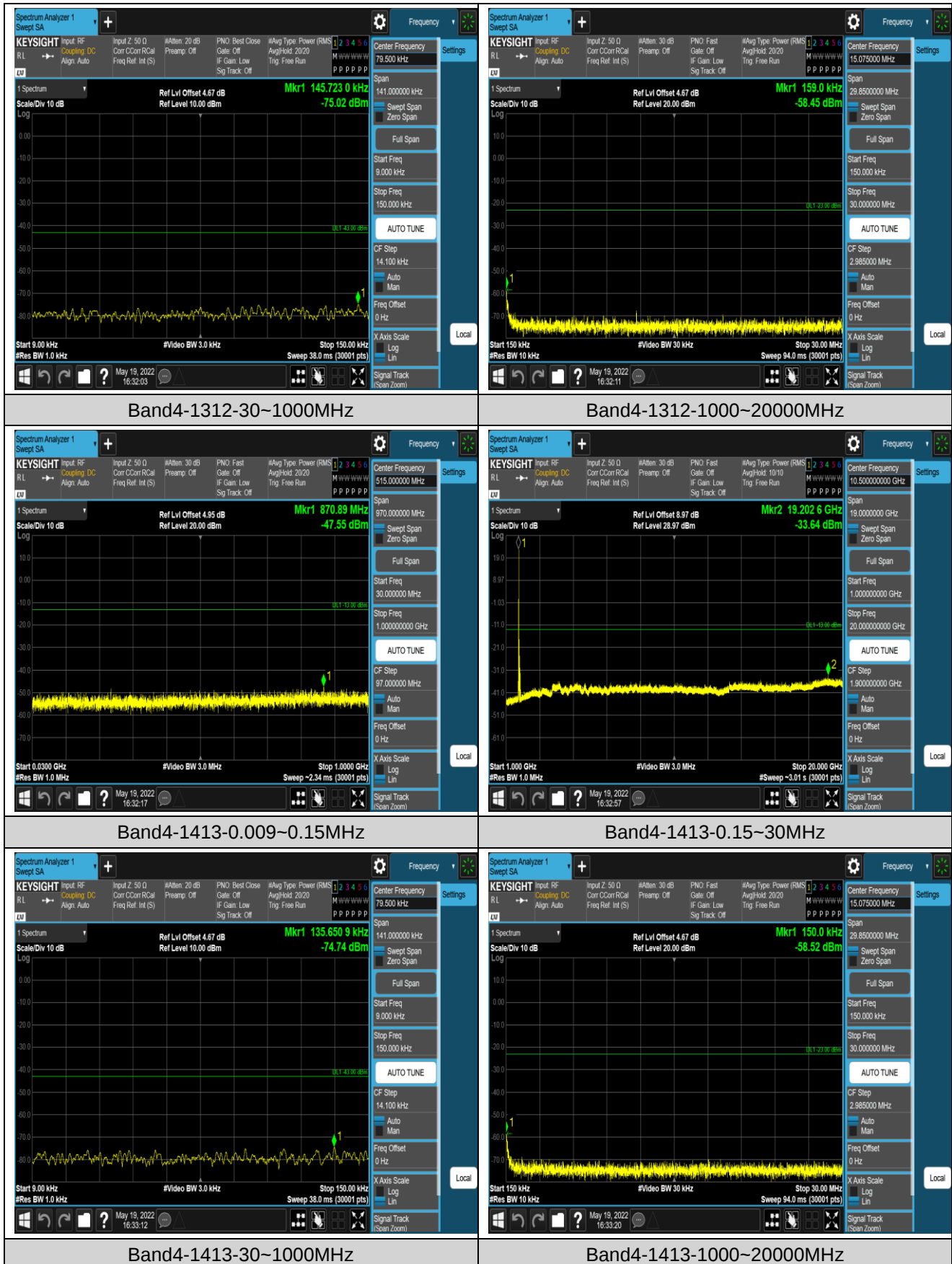
Test Result(WCDMA)

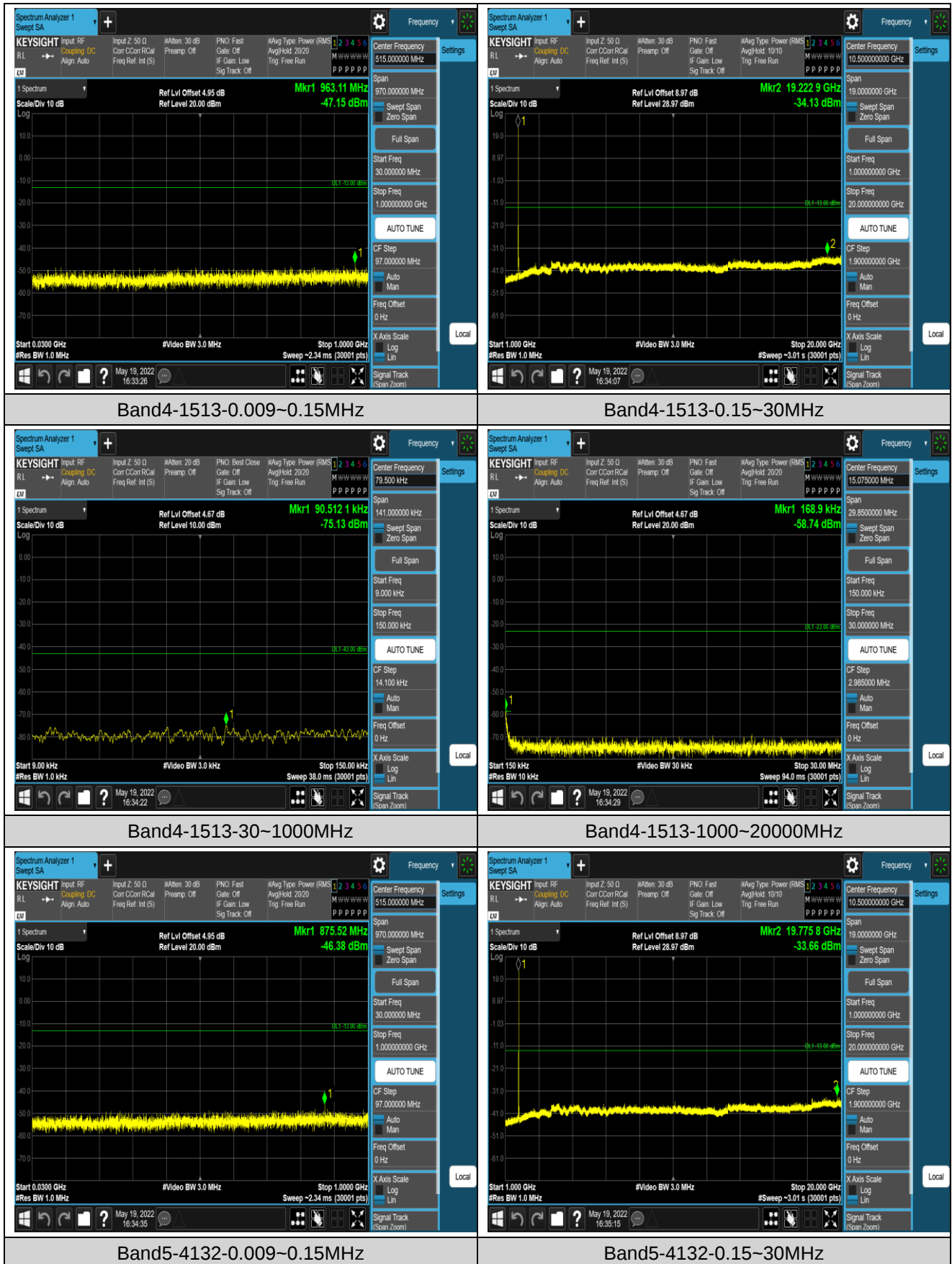
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.1	-75.16	-43	PASS
Band2	9262	0.15~30MHz	0.17	-57.39	-23	PASS
Band2	9262	30~1000MHz	863.72	-46.56	-13	PASS
Band2	9262	1000~20000MHz	19780.23	-34.46	-13	PASS
Band2	9400	0.009~0.15MHz	0.1	-74.55	-43	PASS
Band2	9400	0.15~30MHz	0.16	-57.36	-23	PASS
Band2	9400	30~1000MHz	841.15	-47.55	-13	PASS
Band2	9400	1000~20000MHz	18949.3	-33.76	-13	PASS
Band2	9538	0.009~0.15MHz	0.13	-75.81	-43	PASS
Band2	9538	0.15~30MHz	0.15	-57.47	-23	PASS
Band2	9538	30~1000MHz	644.82	-47.62	-13	PASS
Band2	9538	1000~20000MHz	19297	-34.25	-13	PASS
Band4	1312	0.009~0.15MHz	0.15	-75.02	-43	PASS
Band4	1312	0.15~30MHz	0.16	-58.45	-23	PASS
Band4	1312	30~1000MHz	870.89	-47.55	-13	PASS
Band4	1312	1000~20000MHz	19202.63	-33.64	-13	PASS
Band4	1413	0.009~0.15MHz	0.14	-74.74	-43	PASS
Band4	1413	0.15~30MHz	0.15	-58.52	-23	PASS
Band4	1413	30~1000MHz	963.11	-47.15	-13	PASS
Band4	1413	1000~20000MHz	19222.9	-34.13	-13	PASS
Band4	1513	0.009~0.15MHz	0.09	-75.13	-43	PASS
Band4	1513	0.15~30MHz	0.17	-58.74	-23	PASS
Band4	1513	30~1000MHz	875.52	-46.38	-13	PASS
Band4	1513	1000~20000MHz	19775.8	-33.66	-13	PASS
Band5	4132	0.009~0.15MHz	0.14	-75.1	-33	PASS
Band5	4132	0.15~30MHz	0.18	-59.23	-13	PASS
Band5	4132	30~1000MHz	937.05	-56.93	-13	PASS
Band5	4132	1000~10000MHz	3985.6	-35.66	-13	PASS
Band5	4183	0.009~0.15MHz	0.08	-75.17	-33	PASS
Band5	4183	0.15~30MHz	0.15	-58.26	-13	PASS
Band5	4183	30~1000MHz	969.19	-57.07	-13	PASS
Band5	4183	1000~10000MHz	5443.3	-35.55	-13	PASS
Band5	4233	0.009~0.15MHz	0.12	-74.35	-33	PASS
Band5	4233	0.15~30MHz	0.15	-56.47	-13	PASS
Band5	4233	30~1000MHz	654.97	-56.93	-13	PASS
Band5	4233	1000~10000MHz	5442.4	-35.89	-13	PASS

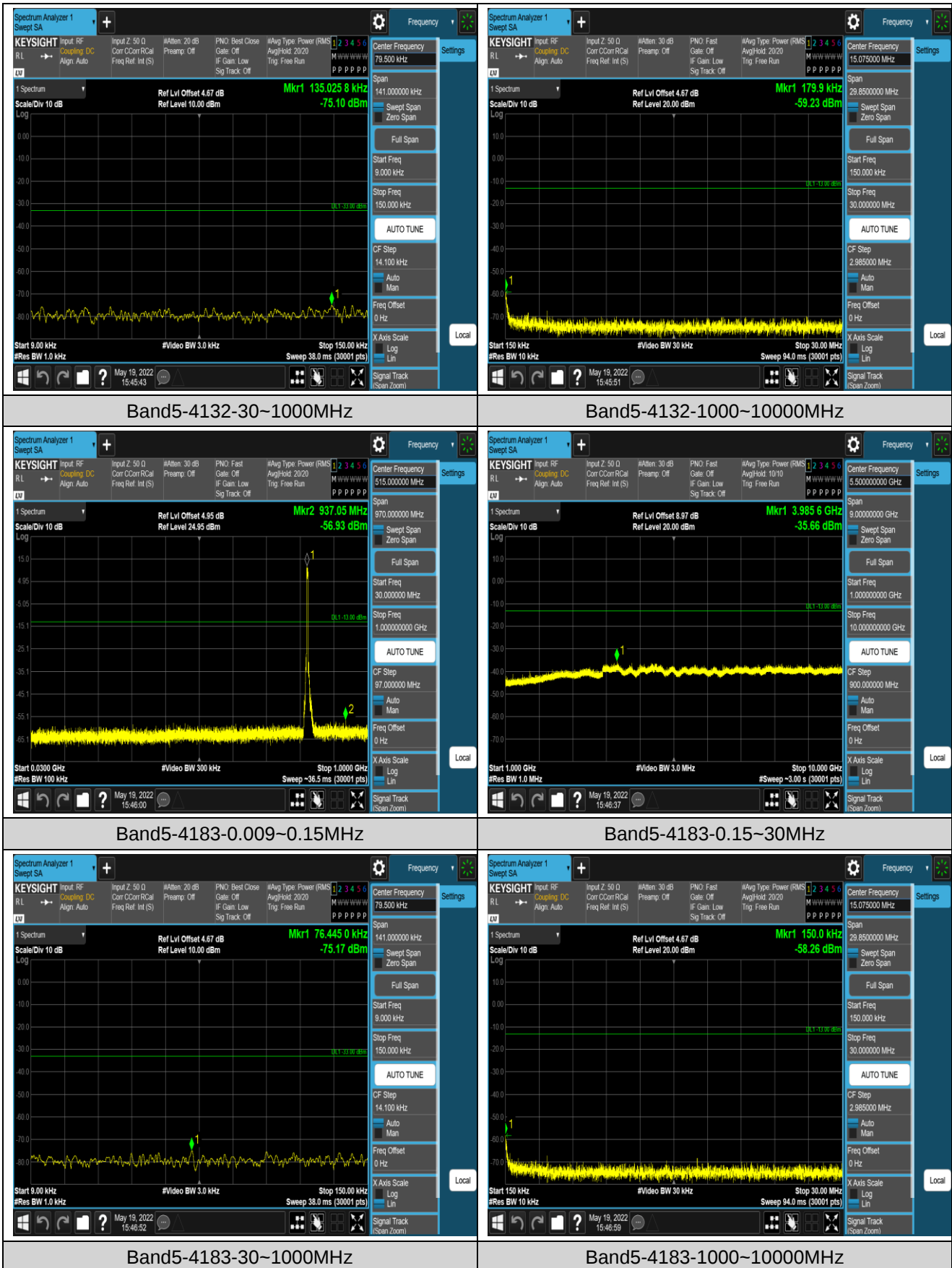
Test Graphs(WCDMA)

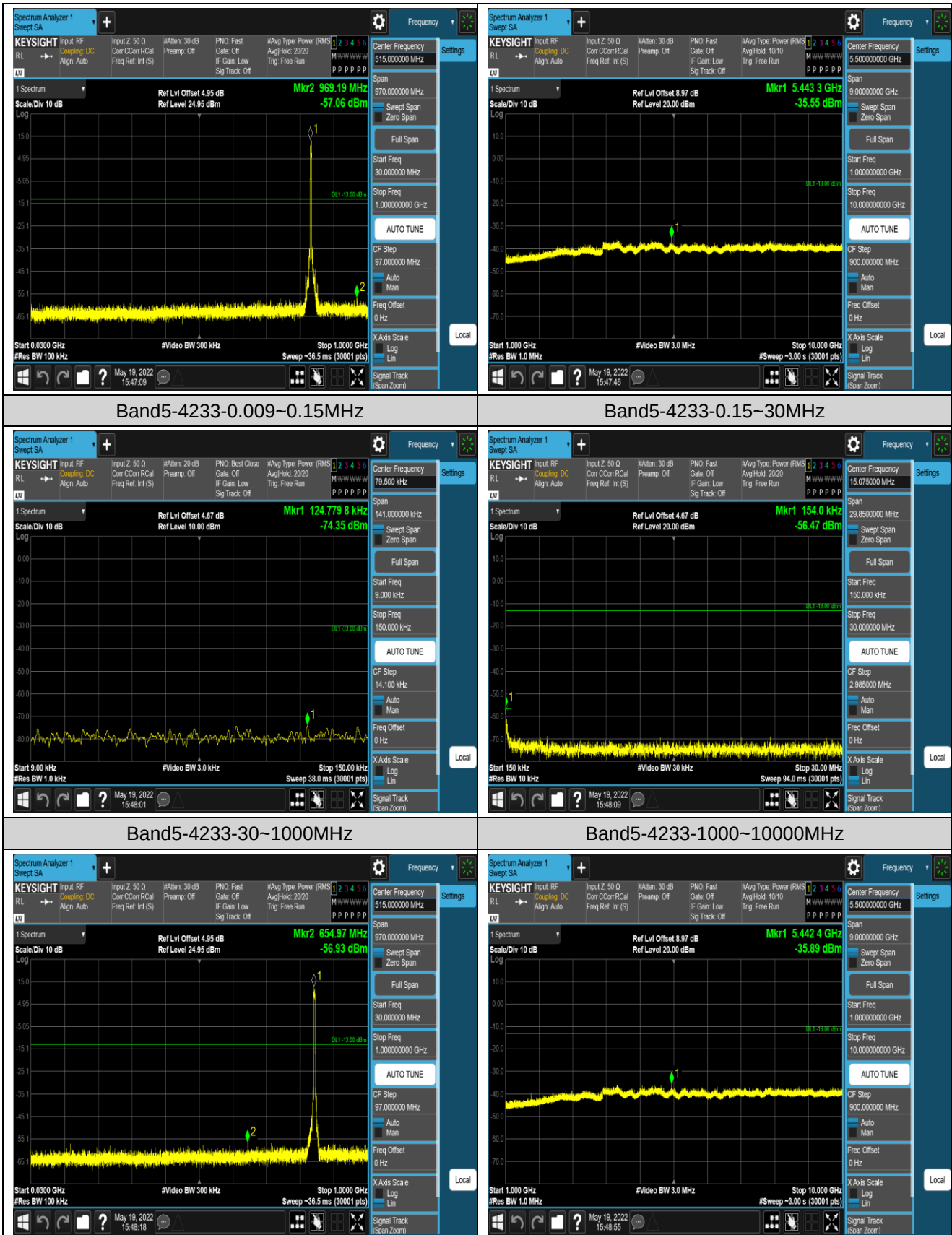












Appendix F: Frequency Stability

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		
3.87	-30	-4.75	-0.005678	±2.5	Pass
	-20	-5.67	-0.006777		
	-10	-3.33	-0.003980		
	0	-5.34	-0.006383		
	10	-3.05	-0.003646		
	20	-3.79	-0.004530		
	30	-2.01	-0.002403		
	40	-1.92	-0.002295		
	50	-0.79	-0.000944		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.95	-0.005917	±2.5	Pass
	3.87	-5.15	-0.006156		
	4.45	-3.38	-0.004040		
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		
3.87	-30	-2.84	-0.001639	Within authorized band for BAND IV	Pass
	-20	-6.62	-0.003821		
	-10	-4.52	-0.002609		
	0	-6.90	-0.003982		
	10	-3.95	-0.002280		
	20	-1.76	-0.001016		
	30	-3.60	-0.002078		
	40	-1.06	-0.000612		
	50	-2.65	-0.001529		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-6.96	-0.004017	Within authorized band for BAND IV	Pass
	3.87	-7.81	-0.004508		
	4.45	-6.99	-0.004034		
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		
3.87	-30	-5.96	-0.003170	Within authorized band for BAND II	Pass
	-20	-4.96	-0.002638		
	-10	-3.29	-0.001750		
	0	-0.40	-0.000213		
	10	-2.78	-0.001479		
	20	-3.71	-0.001973		
	30	-1.77	-0.000941		
	40	-3.63	-0.001931		
	50	-1.01	-0.000537		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.48	-0.002383	Within authorized band for BAND II	Pass
	3.87	-1.83	-0.000973		
	4.45	-3.02	-0.001606		
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

