

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Type	Channel	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP(dBm)	ERP/EIRP Limit (dBm)
Band2	Voice	9262	22.59	-1.20	21.39	33.00
Band2	RMC	9262	22.65	-1.20	21.45	33.00
Band2	Voice	9400	22.65	-1.20	21.45	33.00
Band2	RMC	9400	22.68	-1.20	21.48	33.00
Band2	Voice	9538	22.41	-1.20	21.21	33.00
Band2	RMC	9538	22.42	-1.20	21.22	33.00
Band5	Voice	4132	22.41	-2.00	18.26	38.45
Band5	RMC	4132	23.09	-2.00	18.94	38.45
Band5	Voice	4183	22.95	-2.00	18.80	38.45
Band5	RMC	4183	22.30	-2.00	18.15	38.45
Band5	Voice	4233	22.53	-2.00	18.38	38.45
Band5	RMC	4233	22.31	-2.00	18.16	38.45

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

Test Result(HSDPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	22.28	-1.20	21.08	33.00
Band2	HSDPA	9262	2	21.88	-1.20	20.68	33.00
Band2	HSDPA	9262	3	21.66	-1.20	20.46	33.00
Band2	HSDPA	9262	4	21.67	-1.20	20.47	33.00
Band2	HSDPA	9400	1	22.39	-1.20	21.19	33.00
Band2	HSDPA	9400	2	22.47	-1.20	21.27	33.00
Band2	HSDPA	9400	3	22.23	-1.20	21.03	33.00
Band2	HSDPA	9400	4	22.22	-1.20	21.02	33.00
Band2	HSDPA	9538	1	22.26	-1.20	21.06	33.00
Band2	HSDPA	9538	2	21.85	-1.20	20.65	33.00
Band2	HSDPA	9538	3	21.58	-1.20	20.38	33.00

Band2	HSDPA	9538	4	21.67	-1.20	20.47	33.00
Band5	HSDPA	4132	1	21.36	-2.00	17.21	38.45
Band5	HSDPA	4132	2	21.37	-2.00	17.22	38.45
Band5	HSDPA	4132	3	20.96	-2.00	16.81	38.45
Band5	HSDPA	4132	4	20.80	-2.00	16.65	38.45
Band5	HSDPA	4183	1	21.31	-2.00	17.16	38.45
Band5	HSDPA	4183	2	21.46	-2.00	17.31	38.45
Band5	HSDPA	4183	3	20.92	-2.00	16.77	38.45
Band5	HSDPA	4183	4	20.91	-2.00	16.76	38.45
Band5	HSDPA	4233	1	21.90	-2.00	17.75	38.45
Band5	HSDPA	4233	2	21.61	-2.00	17.46	38.45
Band5	HSDPA	4233	3	21.24	-2.00	17.09	38.45
Band5	HSDPA	4233	4	21.29	-2.00	17.14	38.45

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

Test Result(HSUPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP(dBm)	ERP/EIRP Limit (dBm)
Band2	HSUPA	9262	1	19.70	-1.20	18.50	33.00
Band2	HSUPA	9262	2	20.17	-1.20	18.97	33.00
Band2	HSUPA	9262	3	19.67	-1.20	18.47	33.00
Band2	HSUPA	9262	4	19.95	-1.20	18.75	33.00
Band2	HSUPA	9262	5	22.28	-1.20	21.08	33.00
Band2	HSUPA	9400	1	20.36	-1.20	19.16	33.00
Band2	HSUPA	9400	2	20.85	-1.20	19.65	33.00
Band2	HSUPA	9400	3	20.35	-1.20	19.15	33.00
Band2	HSUPA	9400	4	20.65	-1.20	19.45	33.00
Band2	HSUPA	9400	5	22.25	-1.20	21.05	33.00
Band2	HSUPA	9538	1	19.76	-1.20	18.56	33.00
Band2	HSUPA	9538	2	20.24	-1.20	19.04	33.00
Band2	HSUPA	9538	3	19.74	-1.20	18.54	33.00
Band2	HSUPA	9538	4	19.97	-1.20	18.77	33.00
Band2	HSUPA	9538	5	22.28	-1.20	21.08	33.00

Band5	HSUPA	4132	1	19.95	-2.00	15.80	38.45
Band5	HSUPA	4132	2	20.04	-2.00	15.89	38.45
Band5	HSUPA	4132	3	19.55	-2.00	15.4	38.45
Band5	HSUPA	4132	4	19.36	-2.00	15.21	38.45
Band5	HSUPA	4132	5	21.30	-2.00	17.15	38.45
Band5	HSUPA	4183	1	20.05	-2.00	15.90	38.45
Band5	HSUPA	4183	2	20.26	-2.00	16.11	38.45
Band5	HSUPA	4183	3	19.71	-2.00	15.56	38.45
Band5	HSUPA	4183	4	19.48	-2.00	15.33	38.45
Band5	HSUPA	4183	5	21.35	-2.00	17.20	38.45
Band5	HSUPA	4233	1	20.13	-2.00	15.98	38.45
Band5	HSUPA	4233	2	20.21	-2.00	16.06	38.45
Band5	HSUPA	4233	3	19.75	-2.00	15.60	38.45
Band5	HSUPA	4233	4	19.62	-2.00	15.47	38.45
Band5	HSUPA	4233	5	21.56	-2.00	17.41	38.45

Note: $EIRP (dBm) = Average\ power (dBm) + Antenna\ Gain (dBi)$. (For Band2)
 $ERP (dBm) = EIRP (dBm) - 2.15 (dB)$. (For Band5)

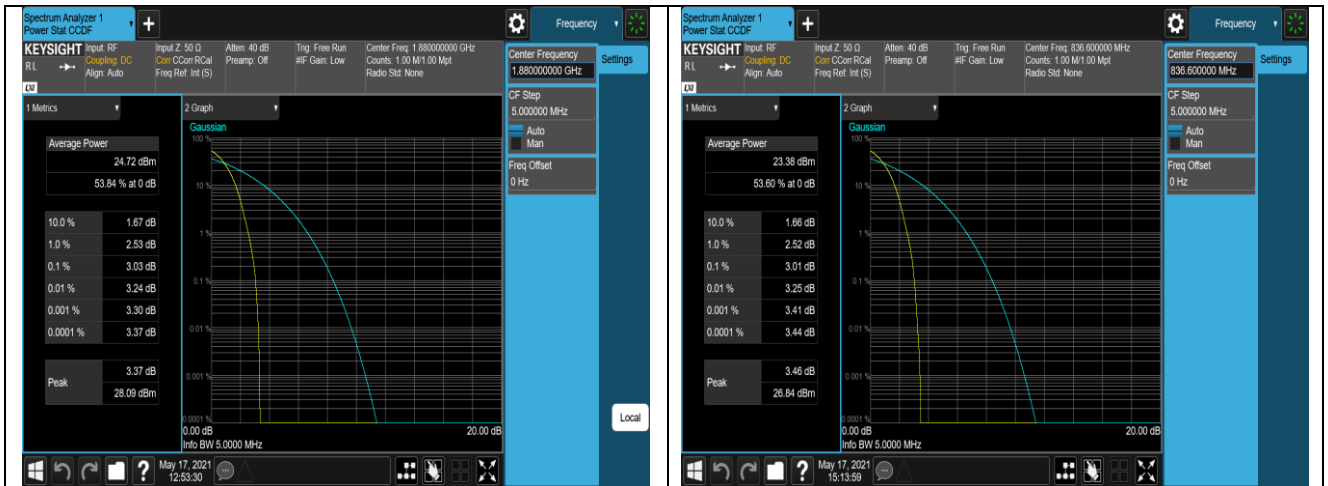
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.03	13	PASS
Band5	4183	3.01	13	PASS

Test Graphs(WCDMA)

Band2-9400	Band5-4183
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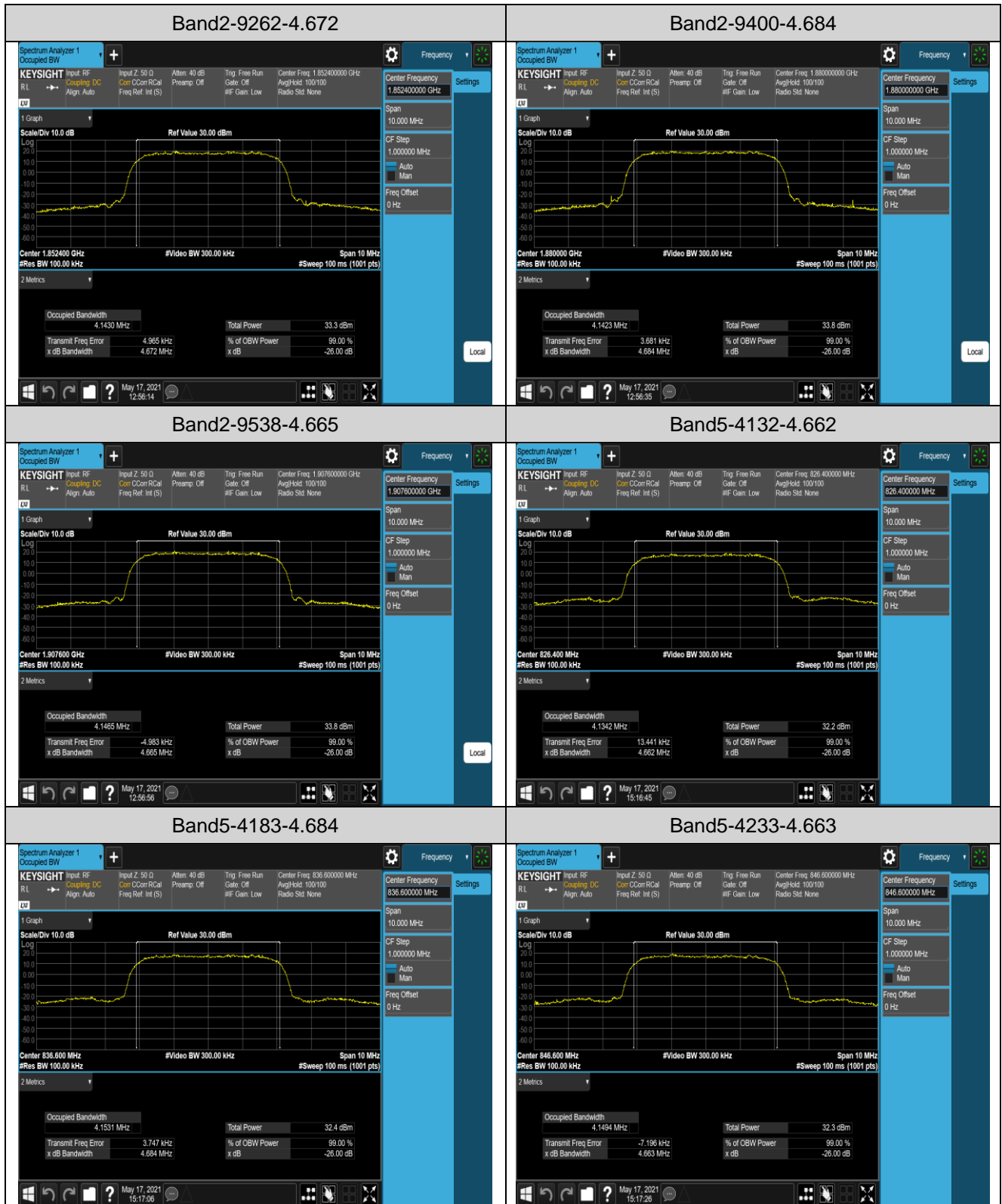


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1430	4.672	---	PASS
Band2	9400	4.1423	4.684	---	PASS
Band2	9538	4.1465	4.665	---	PASS
Band5	4132	4.1342	4.662	---	PASS
Band5	4183	4.1531	4.684	---	PASS
Band5	4233	4.1494	4.663	---	PASS

Test Graphs(WCDMA)

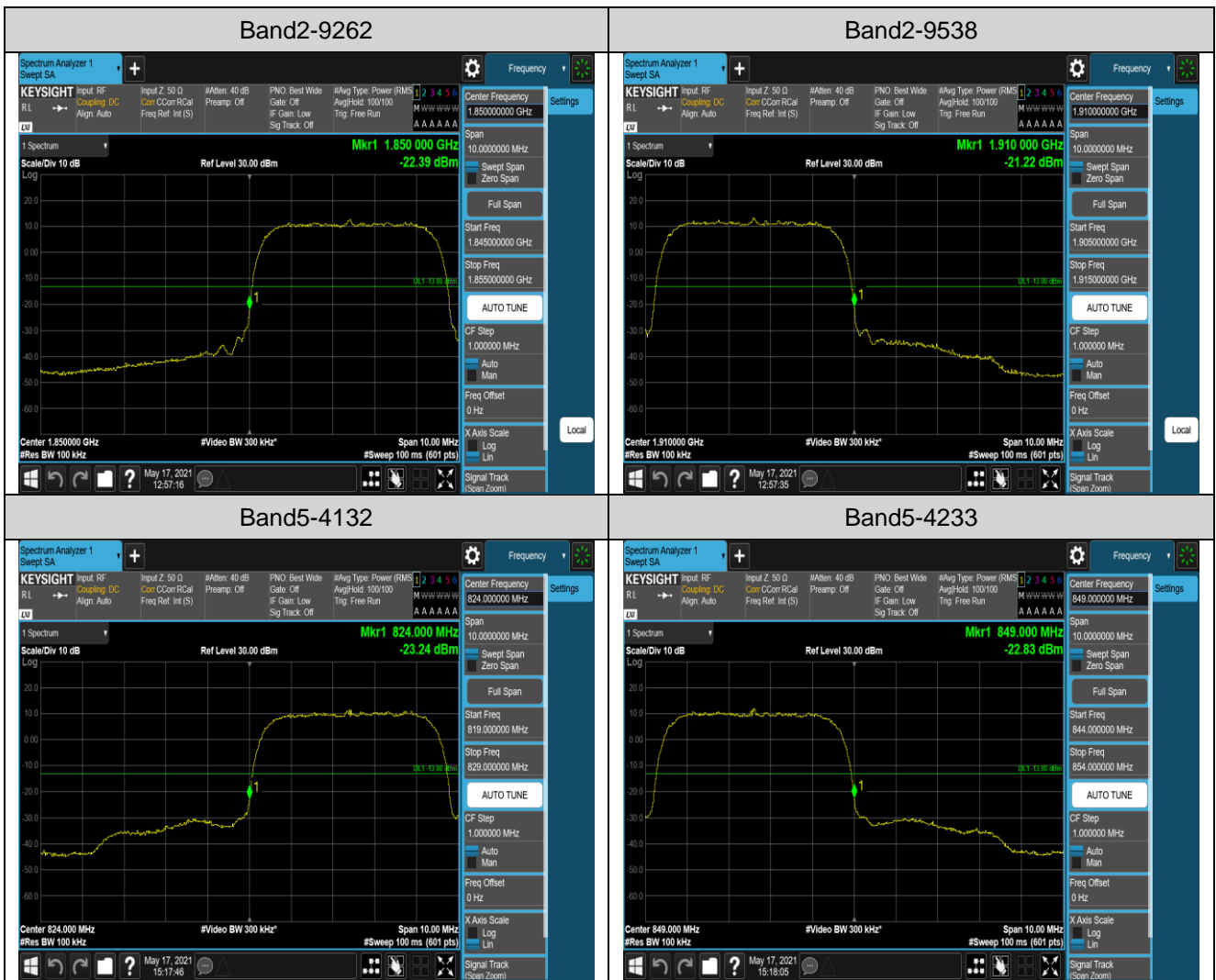


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.39	-13	PASS
Band2	9538	1910.00	-21.22	-13	PASS
Band5	4132	824.00	-23.24	-13	PASS
Band5	4233	849.00	-22.83	-13	PASS

Test Graphs(WCDMA)



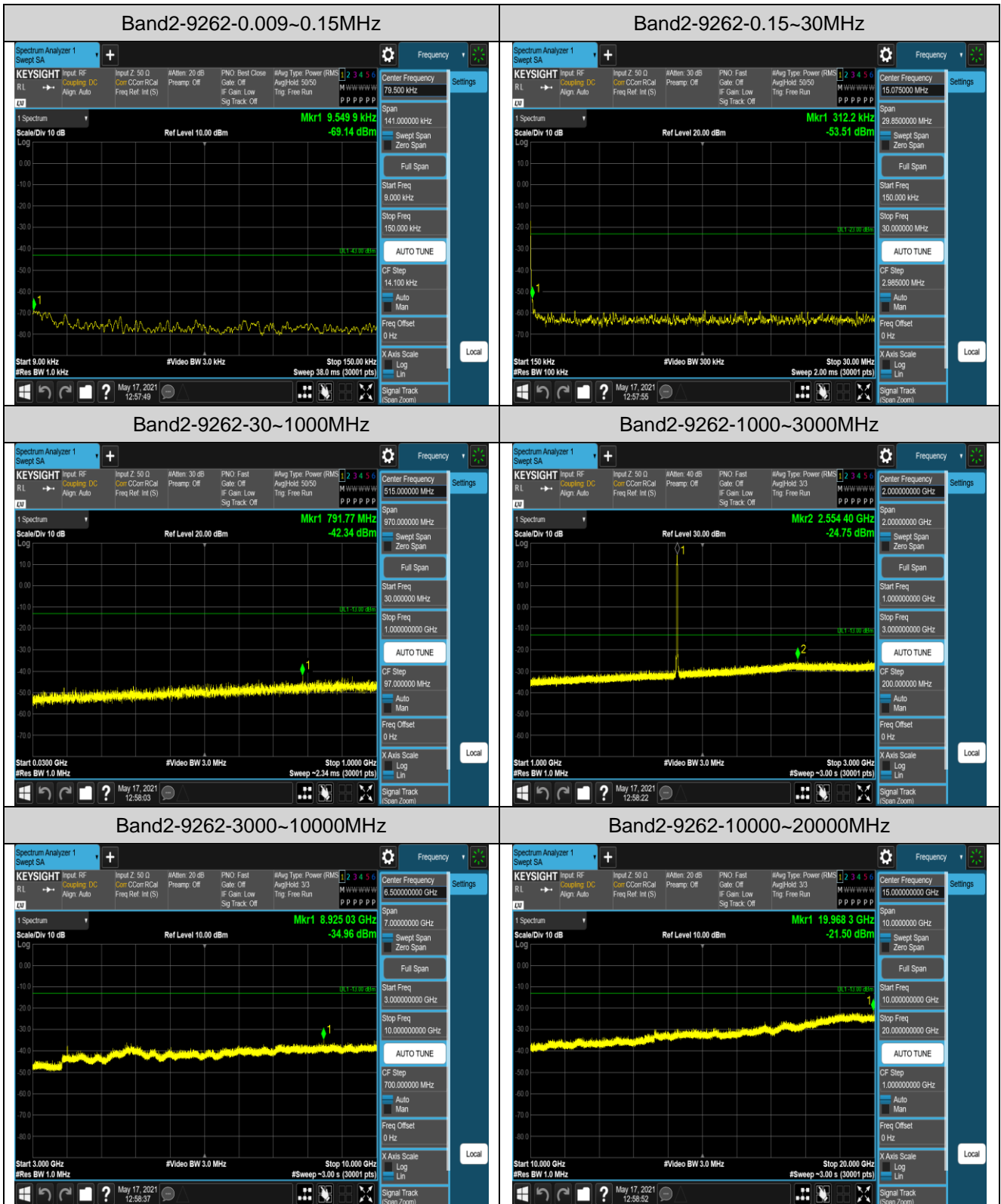
Appendix E: Conducted Spurious Emission

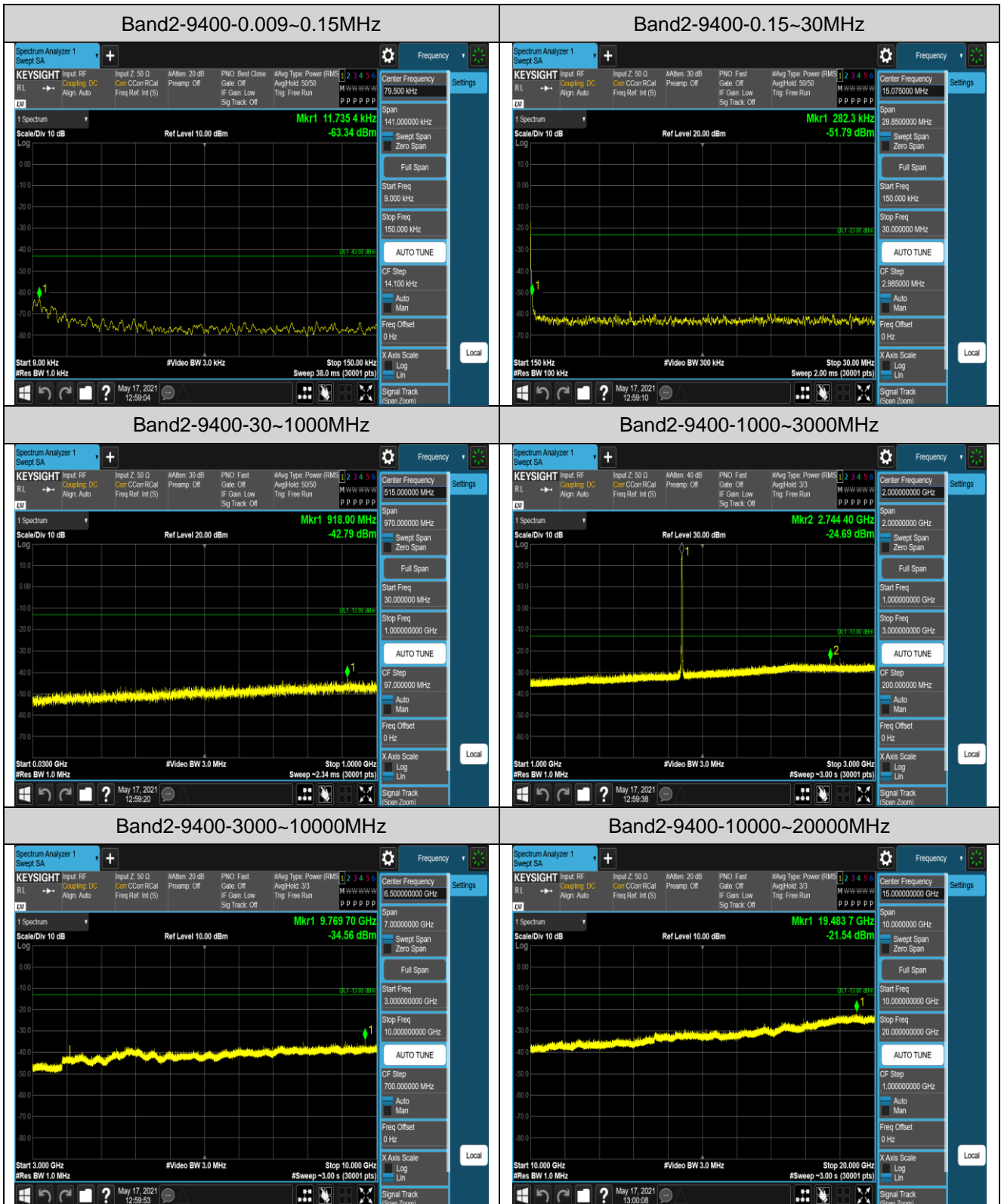
Test Result (WCDMA)

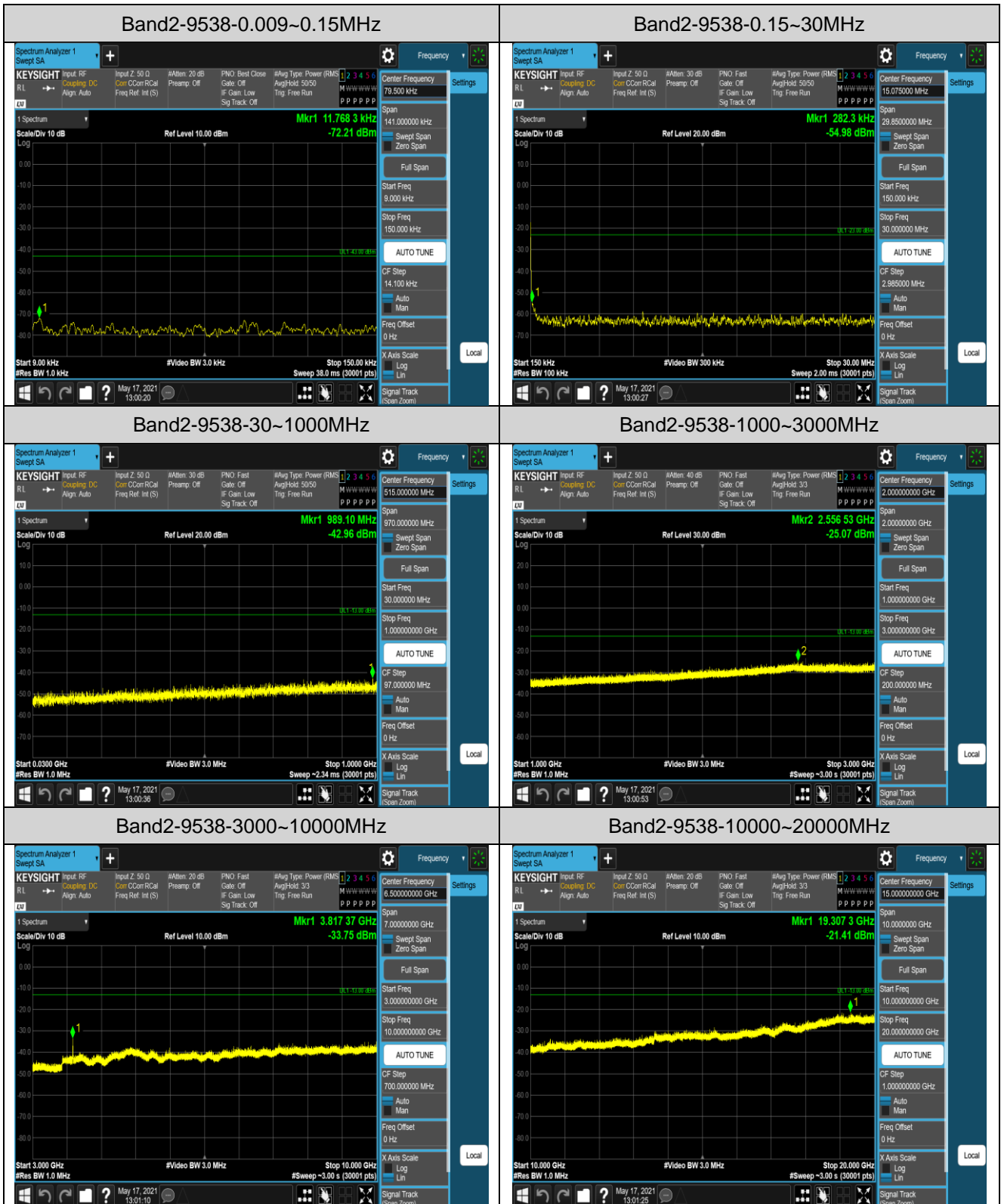
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-69.14	-43	PASS
Band2	9262	0.15~30MHz	0.31	-53.51	-23	PASS
Band2	9262	30~1000MHz	791.77	-42.34	-13	PASS
Band2	9262	1000~3000MHz	2554.4	-24.75	-13	PASS
Band2	9262	3000~10000MHz	8925.03	-34.96	-13	PASS
Band2	9262	10000~20000MHz	19968.33	-21.5	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-63.34	-43	PASS
Band2	9400	0.15~30MHz	0.28	-51.79	-23	PASS
Band2	9400	30~1000MHz	918	-42.79	-13	PASS
Band2	9400	1000~3000MHz	2744.4	-24.69	-13	PASS
Band2	9400	3000~10000MHz	9769.7	-34.56	-13	PASS
Band2	9400	10000~20000MHz	19483.67	-21.54	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-72.21	-43	PASS
Band2	9538	0.15~30MHz	0.28	-54.98	-23	PASS
Band2	9538	30~1000MHz	989.1	-42.96	-13	PASS
Band2	9538	1000~3000MHz	2556.53	-25.07	-13	PASS
Band2	9538	3000~10000MHz	3817.37	-33.75	-13	PASS
Band2	9538	10000~20000MHz	19307.33	-21.41	-13	PASS
Band5	4132	0.009~0.15MHz	0.02	-66.59	-33	PASS
Band5	4132	0.15~30MHz	0.33	-53.41	-13	PASS
Band5	4132	30~1000MHz	978.05	-33.89	-13	PASS
Band5	4132	1000~3000MHz	2702.87	-34.06	-13	PASS
Band5	4132	3000~10000MHz	9973.87	-36.1	-13	PASS
Band5	4132	10000~18000MHz	17963.73	-38.75	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-64.95	-33	PASS
Band5	4183	0.15~30MHz	0.28	-54.39	-13	PASS
Band5	4183	30~1000MHz	987.23	-33.27	-13	PASS
Band5	4183	1000~3000MHz	2707.07	-34.29	-13	PASS
Band5	4183	3000~10000MHz	9834.1	-35.24	-13	PASS
Band5	4183	10000~18000MHz	17402.13	-38.66	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-62.82	-33	PASS

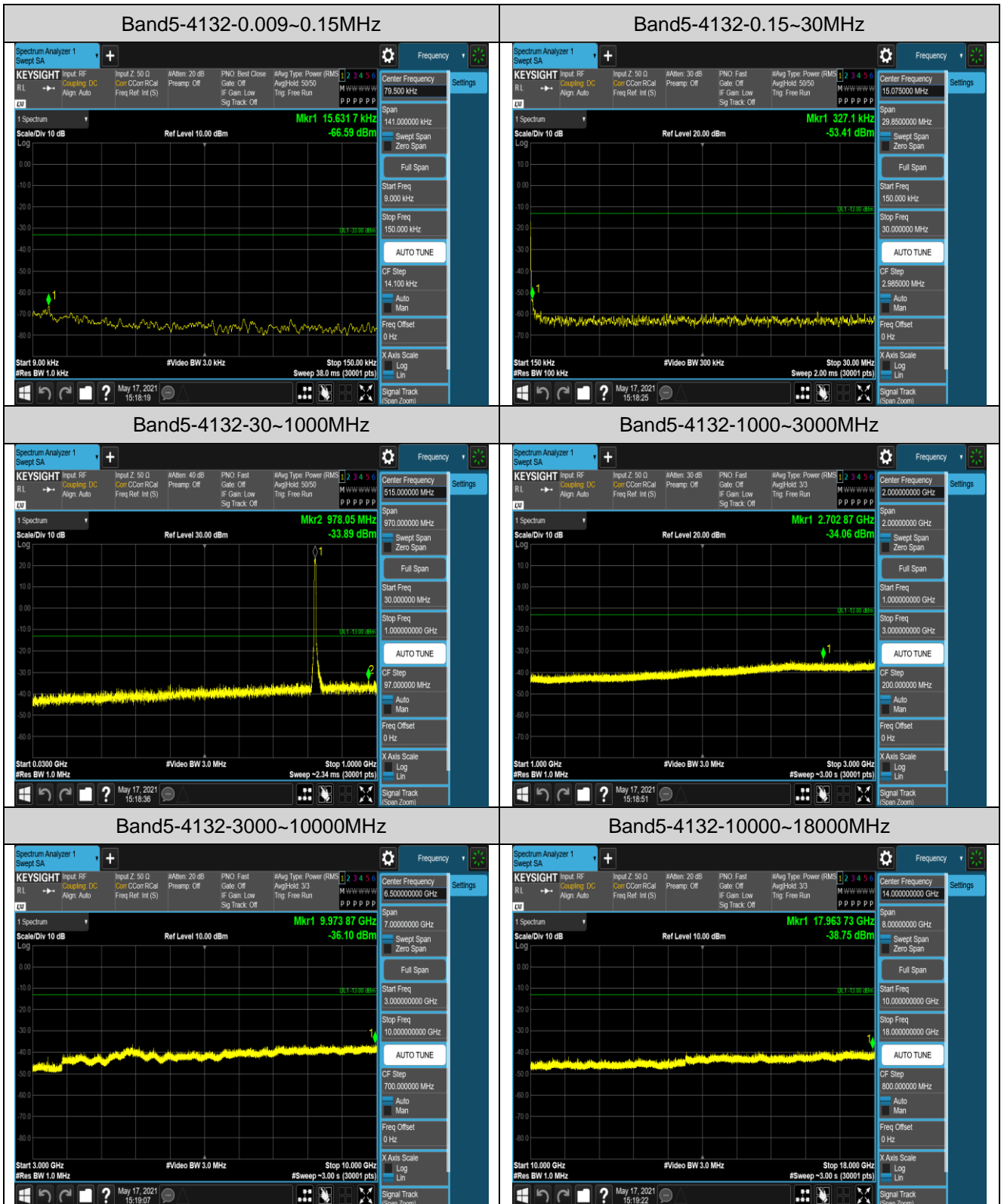
Band5	4233	0.15~30MHz	0.31	-54.67	-13	PASS
Band5	4233	30~1000MHz	963.66	-32.71	-13	PASS
Band5	4233	1000~3000MHz	2520.47	-34.61	-13	PASS
Band5	4233	3000~10000MHz	9119.63	-35.84	-13	PASS
Band5	4233	10000~18000MHz	17672	-37.92	-13	PASS

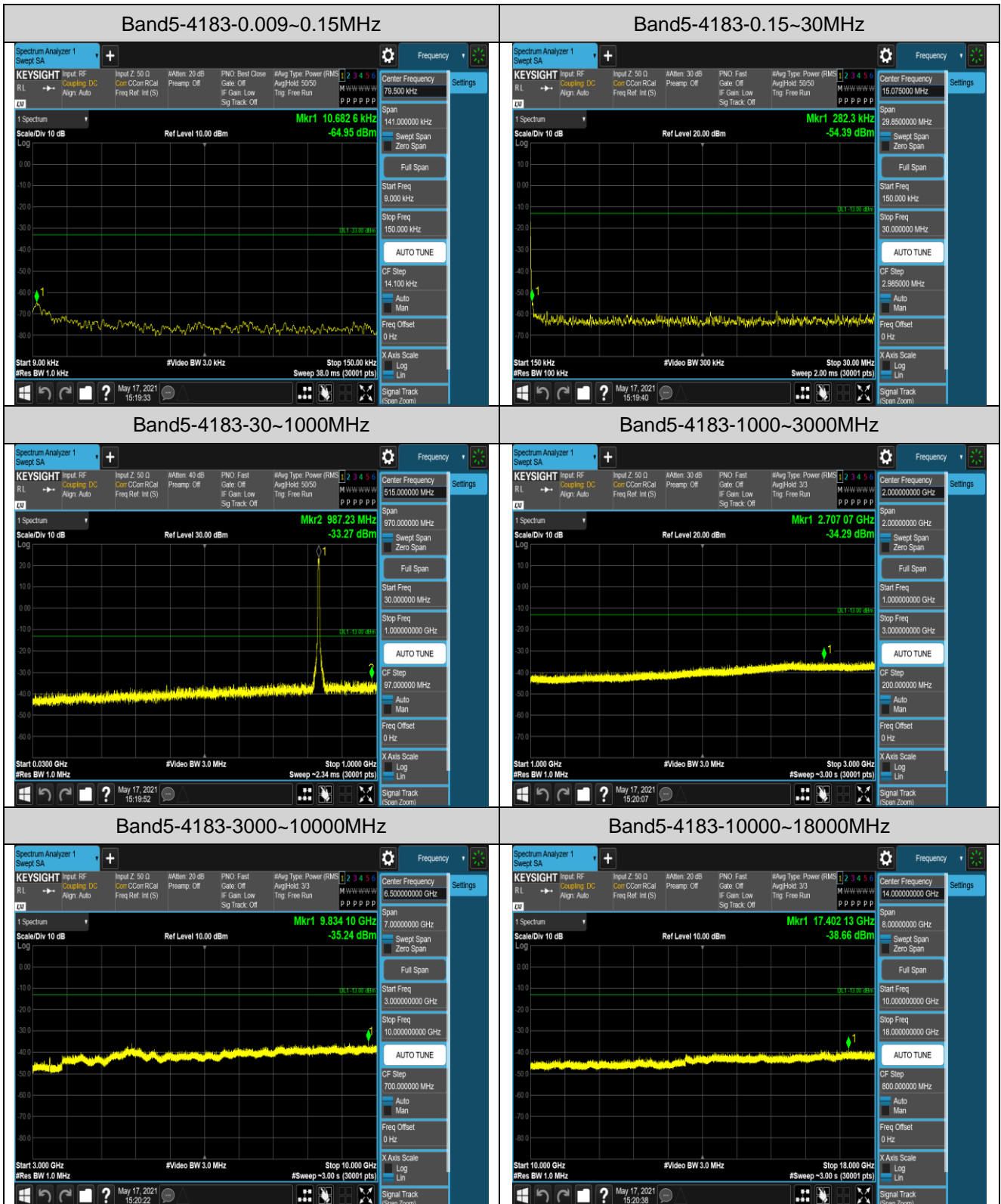
Test Graphs(WCDMA)

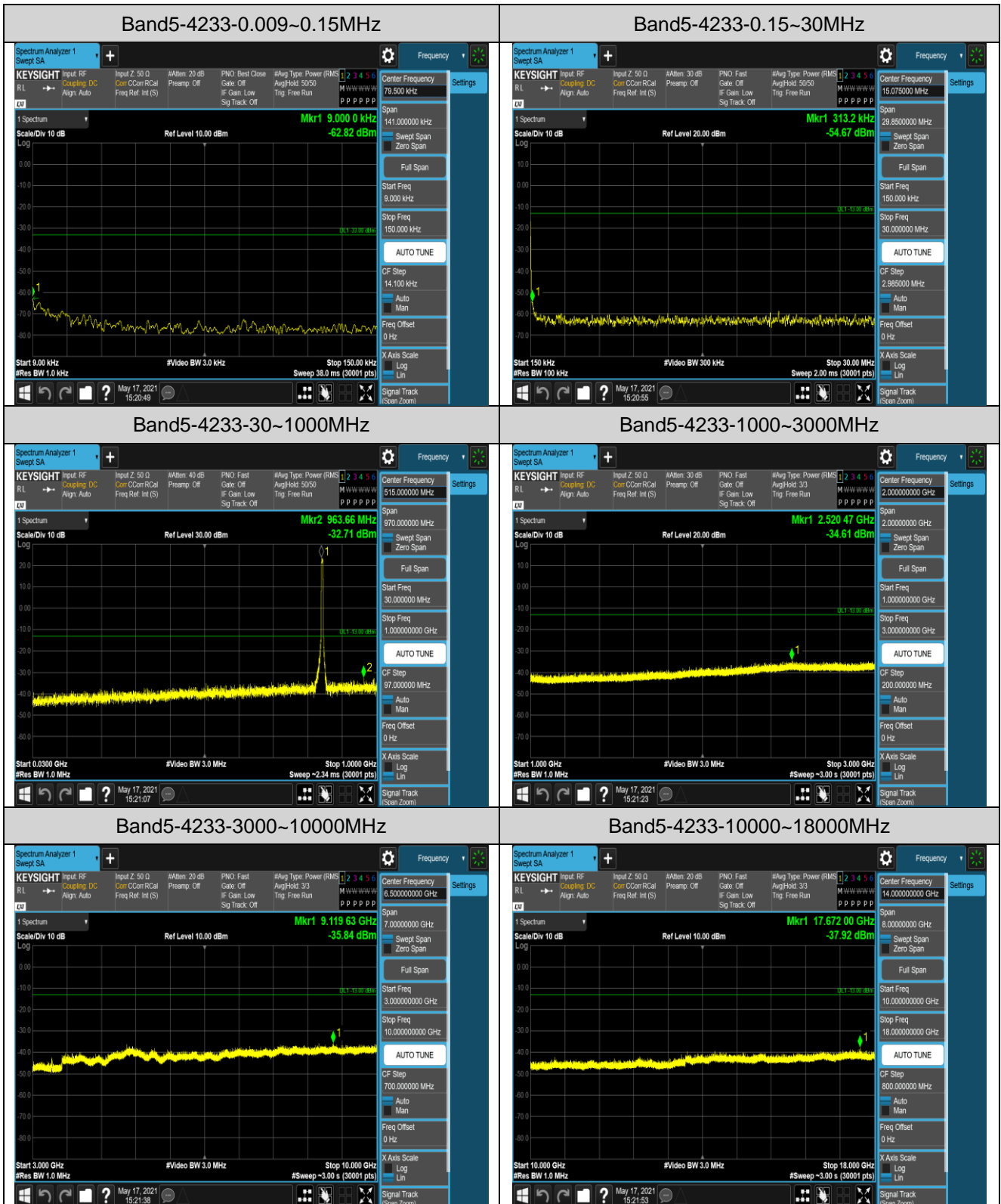












Appendix F: Frequency Stability

Test Result (the worst channel)

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		
3.80	-30	-0.96	-0.001148	±2.5	Pass
	-20	0.09	0.000108		
	-10	0.46	0.000550		
	0	2.48	0.002964		
	10	-0.24	-0.000287		
	20	0.81	0.000968		
	30	1.34	0.001602		
	40	1.75	0.002092		
	50	0.67	0.000801		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.66	0.000789	±2.5	Pass
	3.80	0.49	0.000586		
	4.40	-0.77	-0.000920		
<i>Note: Only the worst case shown in the 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		
3.80	-30	-0.17	-0.000090	Within authorized band for BAND II	Pass
	-20	3.20	0.001702		
	-10	7.32	0.003894		
	0	-1.04	-0.000553		
	10	-1.51	-0.000803		
	20	-6.72	-0.003574		
	30	-0.71	-0.000378		
	40	2.08	0.001106		
	50	3.29	0.001750		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	10.44	0.005553	Within authorized band for BAND II	Pass
	3.80	-1.98	-0.001053		
	4.40	-0.22	-0.000117		
<i>Note: Only the worst case shown in the report.</i>					