

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Type	Channel	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band5	Voice	4132	23.08	-1.40	19.53	38.45
Band5	RMC	4132	23.05	-1.40	19.50	38.45
Band5	Voice	4183	22.96	-1.40	19.41	38.45
Band5	RMC	4183	22.93	-1.40	19.38	38.45
Band5	Voice	4233	22.98	-1.40	19.43	38.45
Band5	RMC	4233	22.96	-1.40	19.41	38.45
Band2	Voice	9262	22.6	-1.30	21.30	33.00
Band2	RMC	9262	22.59	-1.30	21.29	33.00
Band2	Voice	9400	22.65	-1.30	21.35	33.00
Band2	RMC	9400	22.69	-1.30	21.39	33.00
Band2	Voice	9538	22.99	-1.30	21.69	33.00
Band2	RMC	9538	22.99	-1.30	21.69	33.00

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

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band5	HSDPA	4132	1	21.55	-1.40	18	38.45
Band5	HSDPA	4132	2	21.45	-1.40	17.9	38.45
Band5	HSDPA	4132	3	21.05	-1.40	17.5	38.45
Band5	HSDPA	4132	4	21.07	-1.40	17.52	38.45
Band5	HSDPA	4183	1	21.6	-1.40	18.05	38.45
Band5	HSDPA	4183	2	21.54	-1.40	17.99	38.45
Band5	HSDPA	4183	3	21.1	-1.40	17.55	38.45
Band5	HSDPA	4183	4	21.15	-1.40	17.6	38.45
Band5	HSDPA	4233	1	21.66	-1.40	18.11	38.45
Band5	HSDPA	4233	2	21.42	-1.40	17.87	38.45
Band5	HSDPA	4233	3	21.03	-1.40	17.48	38.45
Band5	HSDPA	4233	4	21.09	-1.40	17.54	38.45
Band5	HSUPA	4132	1	20.1	-1.40	16.55	38.45

Band5	HSUPA	4132	2	20.31	-1.40	16.76	38.45
Band5	HSUPA	4132	3	19.83	-1.40	16.28	38.45
Band5	HSUPA	4132	4	19.66	-1.40	16.11	38.45
Band5	HSUPA	4132	5	21.58	-1.40	18.03	38.45
Band5	HSUPA	4183	1	20.24	-1.40	16.69	38.45
Band5	HSUPA	4183	2	20.45	-1.40	16.9	38.45
Band5	HSUPA	4183	3	20.03	-1.40	16.48	38.45
Band5	HSUPA	4183	4	19.9	-1.40	16.35	38.45
Band5	HSUPA	4183	5	21.71	-1.40	18.16	38.45
Band5	HSUPA	4233	1	20.45	-1.40	16.9	38.45
Band5	HSUPA	4233	2	20.62	-1.40	17.07	38.45
Band5	HSUPA	4233	3	20.09	-1.40	16.54	38.45
Band5	HSUPA	4233	4	20.01	-1.40	16.46	38.45
Band5	HSUPA	4233	5	21.66	-1.40	18.11	38.45
Band2	HSDPA	9262	1	21.56	-1.30	20.26	33.00
Band2	HSDPA	9262	2	21.17	-1.30	19.87	33.00
Band2	HSDPA	9262	3	20.94	-1.30	19.64	33.00
Band2	HSDPA	9262	4	21	-1.30	19.70	33.00
Band2	HSDPA	9400	1	22.38	-1.30	21.08	33.00
Band2	HSDPA	9400	2	22.03	-1.30	20.73	33.00
Band2	HSDPA	9400	3	21.78	-1.30	20.48	33.00
Band2	HSDPA	9400	4	21.76	-1.30	20.46	33.00
Band2	HSDPA	9538	1	22.32	-1.30	21.02	33.00
Band2	HSDPA	9538	2	21.98	-1.30	20.68	33.00
Band2	HSDPA	9538	3	21.77	-1.30	20.47	33.00
Band2	HSDPA	9538	4	21.7	-1.30	20.40	33.00
Band2	HSUPA	9262	1	19.18	-1.30	17.88	33.00
Band2	HSUPA	9262	2	19.47	-1.30	18.17	33.00
Band2	HSUPA	9262	3	19.13	-1.30	17.83	33.00
Band2	HSUPA	9262	4	19.43	-1.30	18.13	33.00
Band2	HSUPA	9262	5	21.66	-1.30	20.36	33.00
Band2	HSUPA	9400	1	19.85	-1.30	18.55	33.00
Band2	HSUPA	9400	2	20.27	-1.30	18.97	33.00
Band2	HSUPA	9400	3	19.8	-1.30	18.50	33.00
Band2	HSUPA	9400	4	20.09	-1.30	18.79	33.00

Band2	HSUPA	9400	5	22.24	-1.30	20.94	33.00
Band2	HSUPA	9538	1	20.08	-1.30	18.78	33.00
Band2	HSUPA	9538	2	20.4	-1.30	19.10	33.00
Band2	HSUPA	9538	3	20.01	-1.30	18.71	33.00
Band2	HSUPA	9538	4	20.24	-1.30	18.94	33.00
Band2	HSUPA	9538	5	22.3	-1.30	21.00	33.00
<p><i>Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For Band2)</i> <i>ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)</i></p>							

Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.89	13	PASS
Band5	4183	3.07	13	PASS

Test Graphs(WCDMA)

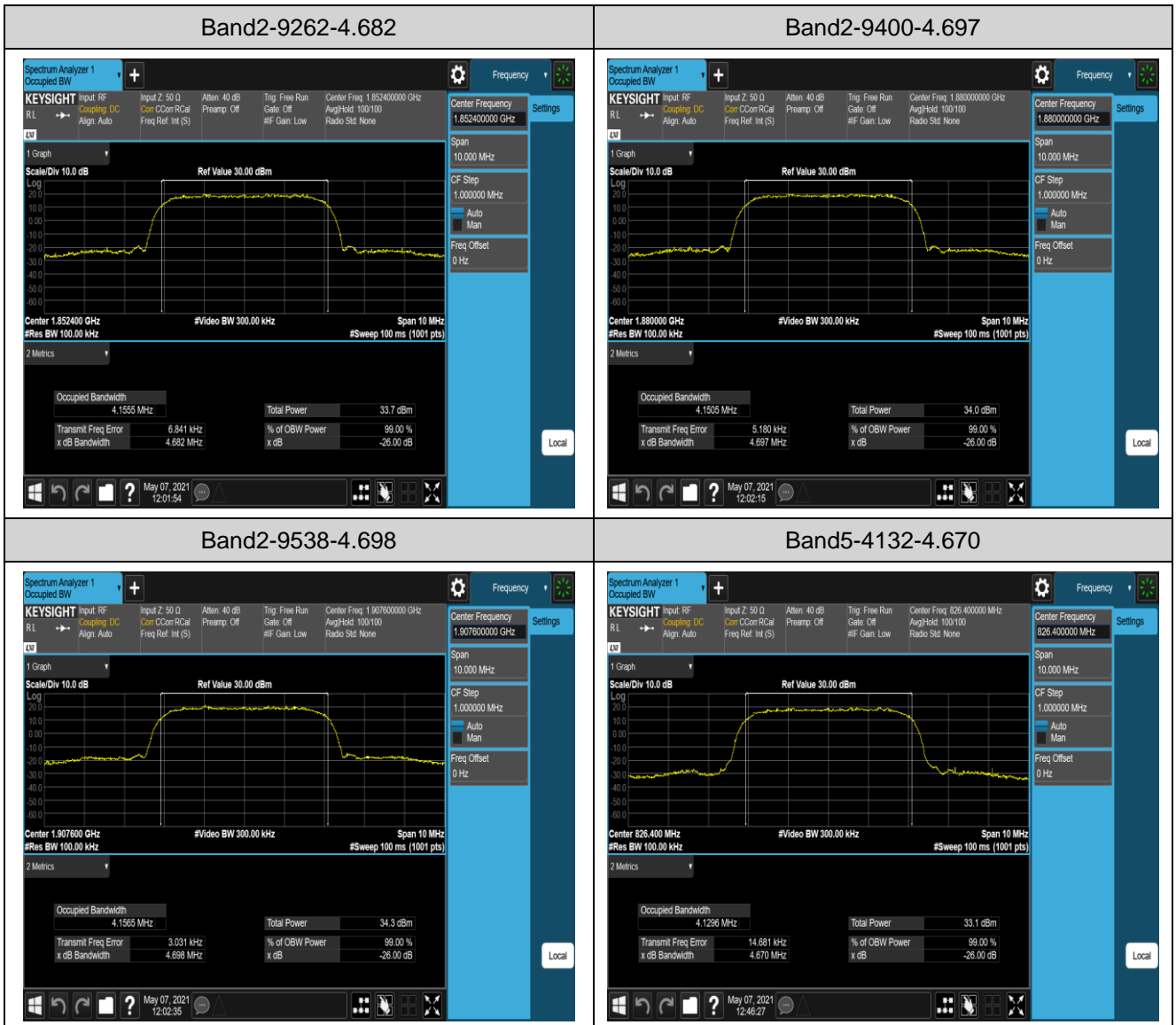


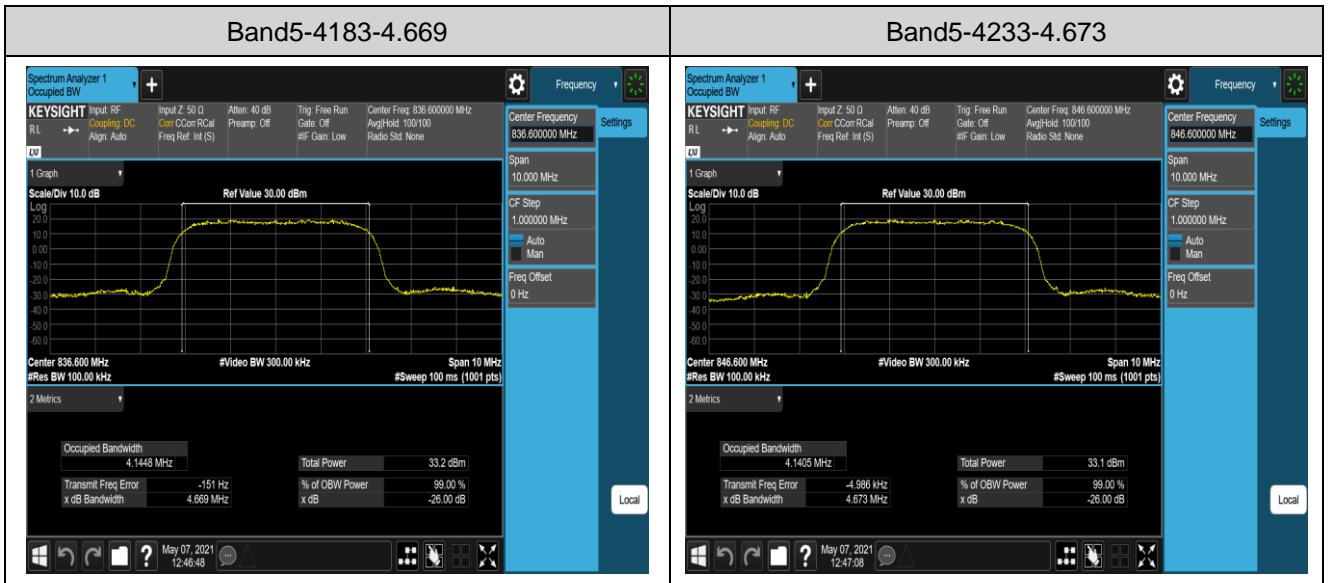
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1555	4.682	---	PASS
Band2	9400	4.1505	4.697	---	PASS
Band2	9538	4.1565	4.698	---	PASS
Band5	4132	4.1296	4.670	---	PASS
Band5	4183	4.1448	4.669	---	PASS
Band5	4233	4.1405	4.673	---	PASS

Test Graphs(WCDMA)



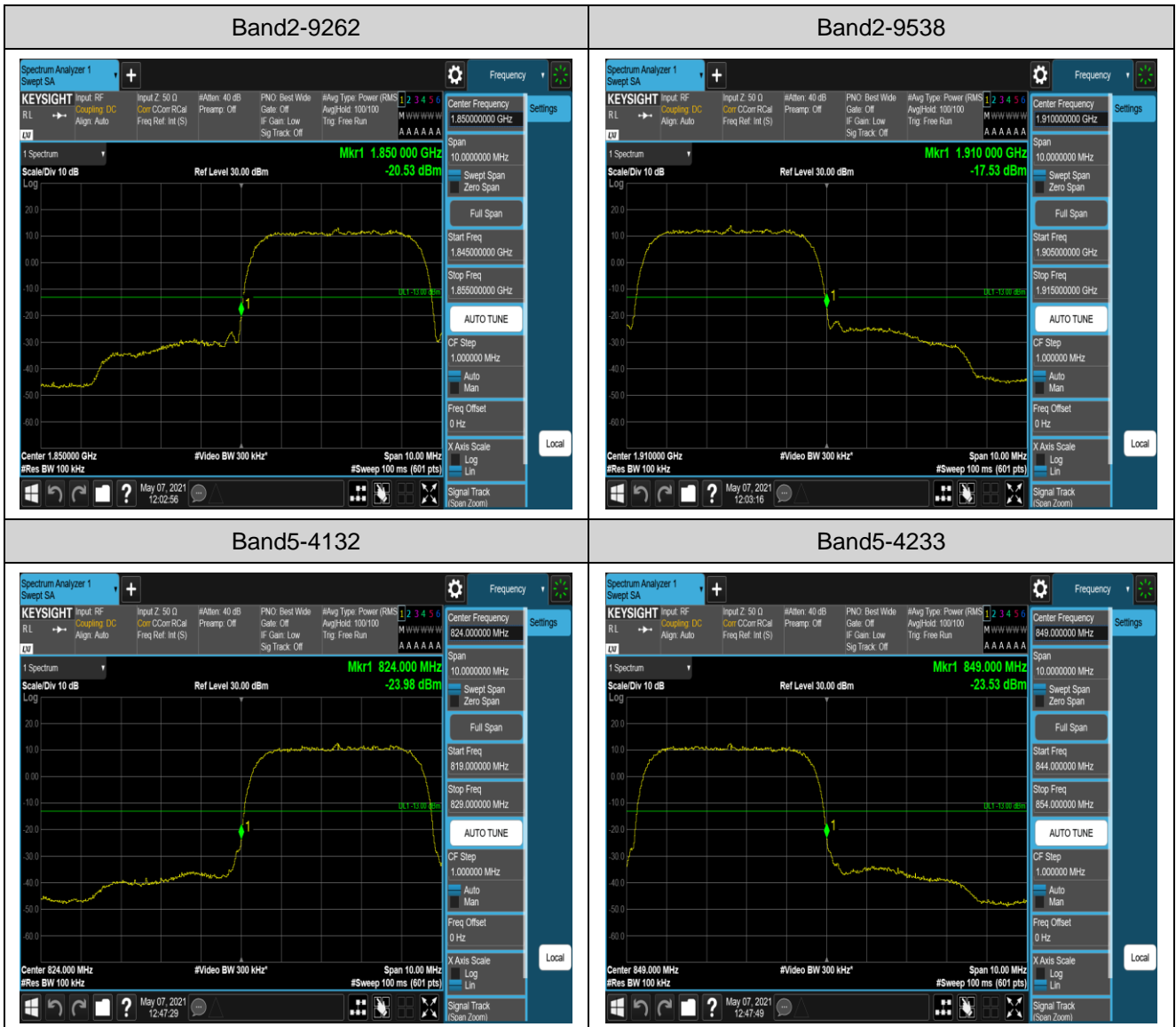


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.53	-13	PASS
Band2	9538	1910.00	-17.53	-13	PASS
Band5	4132	824.00	-23.98	-13	PASS
Band5	4233	849.00	-23.53	-13	PASS

Test Graphs(WCDMA)



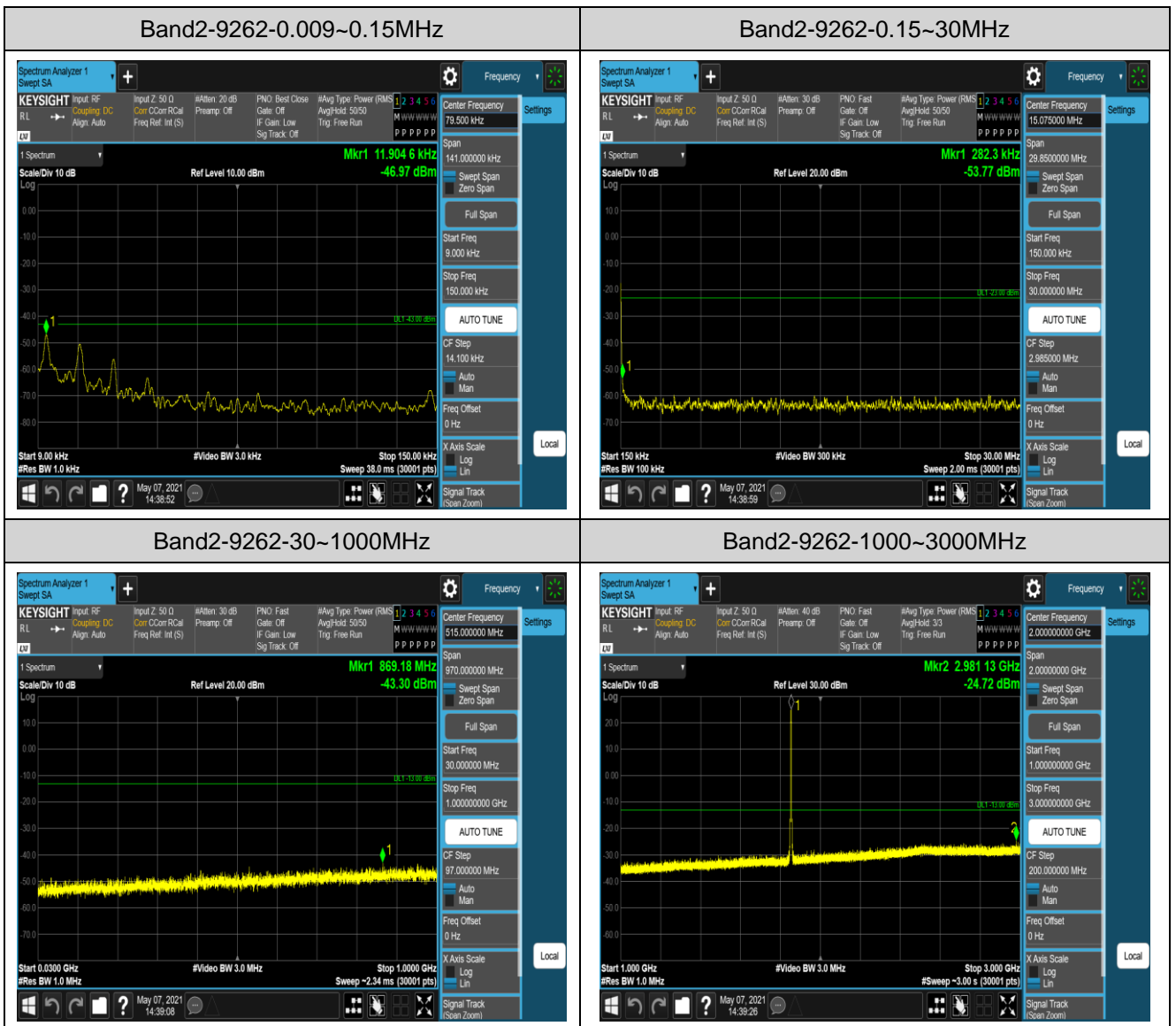
AppendixE:Conducted SpuriousEmission

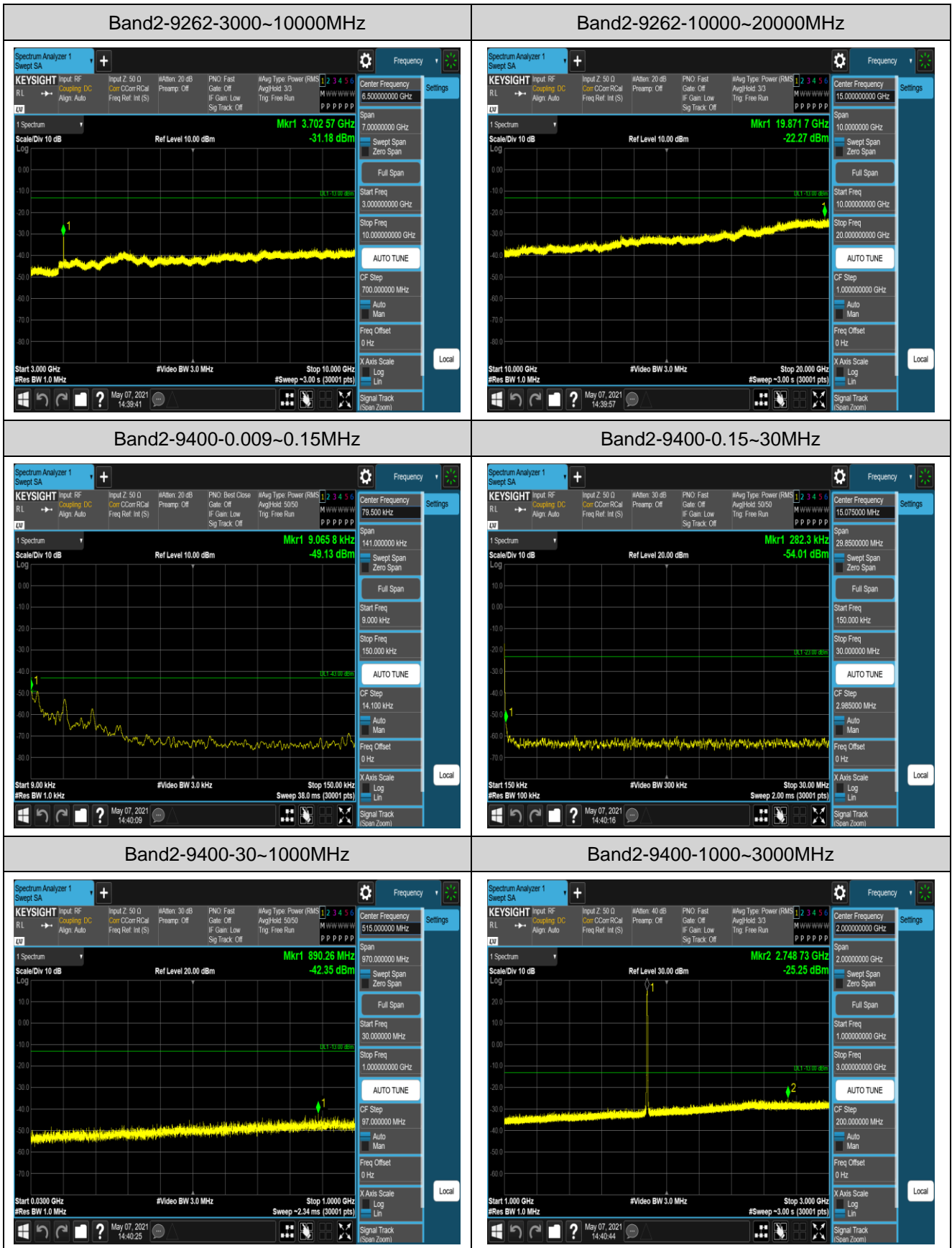
Test Result(WCDMA)

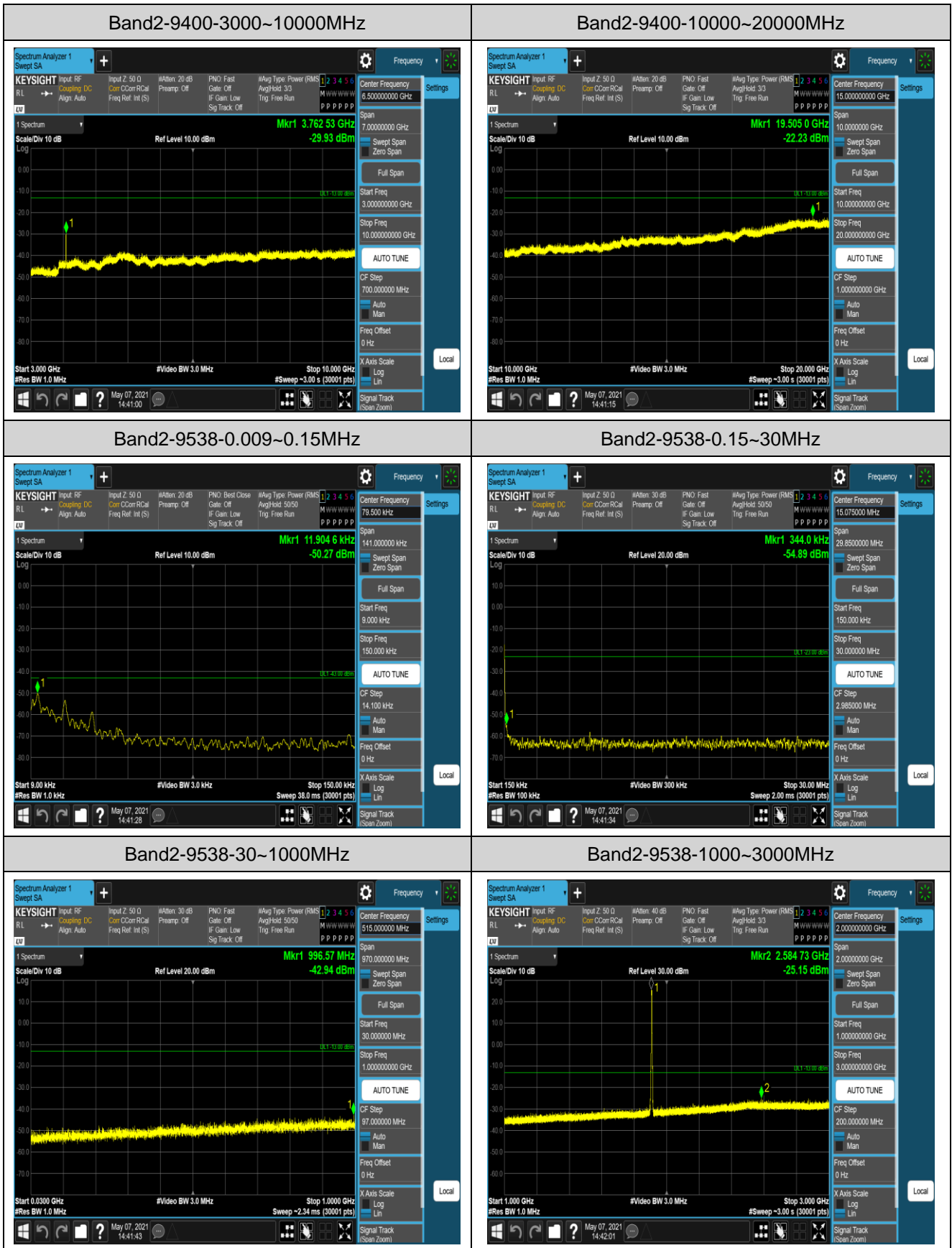
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-46.97	-43	PASS
Band2	9262	0.15~30MHz	0.28	-53.77	-23	PASS
Band2	9262	30~1000MHz	869.18	-43.3	-13	PASS
Band2	9262	1000~3000MHz	2981.13	-24.72	-13	PASS
Band2	9262	3000~10000MHz	3702.57	-31.18	-13	PASS
Band2	9262	10000~20000MHz	19871.67	-22.27	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-49.13	-43	PASS
Band2	9400	0.15~30MHz	0.28	-54.01	-23	PASS
Band2	9400	30~1000MHz	890.26	-42.35	-13	PASS
Band2	9400	1000~3000MHz	2748.73	-25.25	-13	PASS
Band2	9400	3000~10000MHz	3762.53	-29.93	-13	PASS
Band2	9400	10000~20000MHz	19505	-22.23	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-50.27	-43	PASS
Band2	9538	0.15~30MHz	0.34	-54.89	-23	PASS
Band2	9538	30~1000MHz	996.57	-42.94	-13	PASS
Band2	9538	1000~3000MHz	2584.73	-25.15	-13	PASS
Band2	9538	3000~10000MHz	3817.6	-28.36	-13	PASS
Band2	9538	10000~20000MHz	19273.67	-22.48	-13	PASS
Band5	4132	0.009~0.15MHz	0.02	-60.51	-33	PASS
Band5	4132	0.15~30MHz	0.28	-53.39	-13	PASS
Band5	4132	30~1000MHz	960.55	-32.81	-13	PASS
Band5	4132	1000~3000MHz	2771.33	-34.33	-13	PASS
Band5	4132	3000~10000MHz	9114.73	-26.1	-13	PASS
Band5	4132	10000~18000MHz	17446.4	-29	-13	PASS
Band5	4183	0.009~0.15MHz	0.02	-59.76	-33	PASS
Band5	4183	0.15~30MHz	0.28	-54	-13	PASS
Band5	4183	30~1000MHz	735.19	-32.97	-13	PASS
Band5	4183	1000~3000MHz	2545.13	-34.69	-13	PASS
Band5	4183	3000~10000MHz	9940.5	-25.58	-13	PASS
Band5	4183	10000~18000MHz	16721.87	-28.43	-13	PASS
Band5	4233	0.009~0.15MHz	0.02	-59.68	-33	PASS

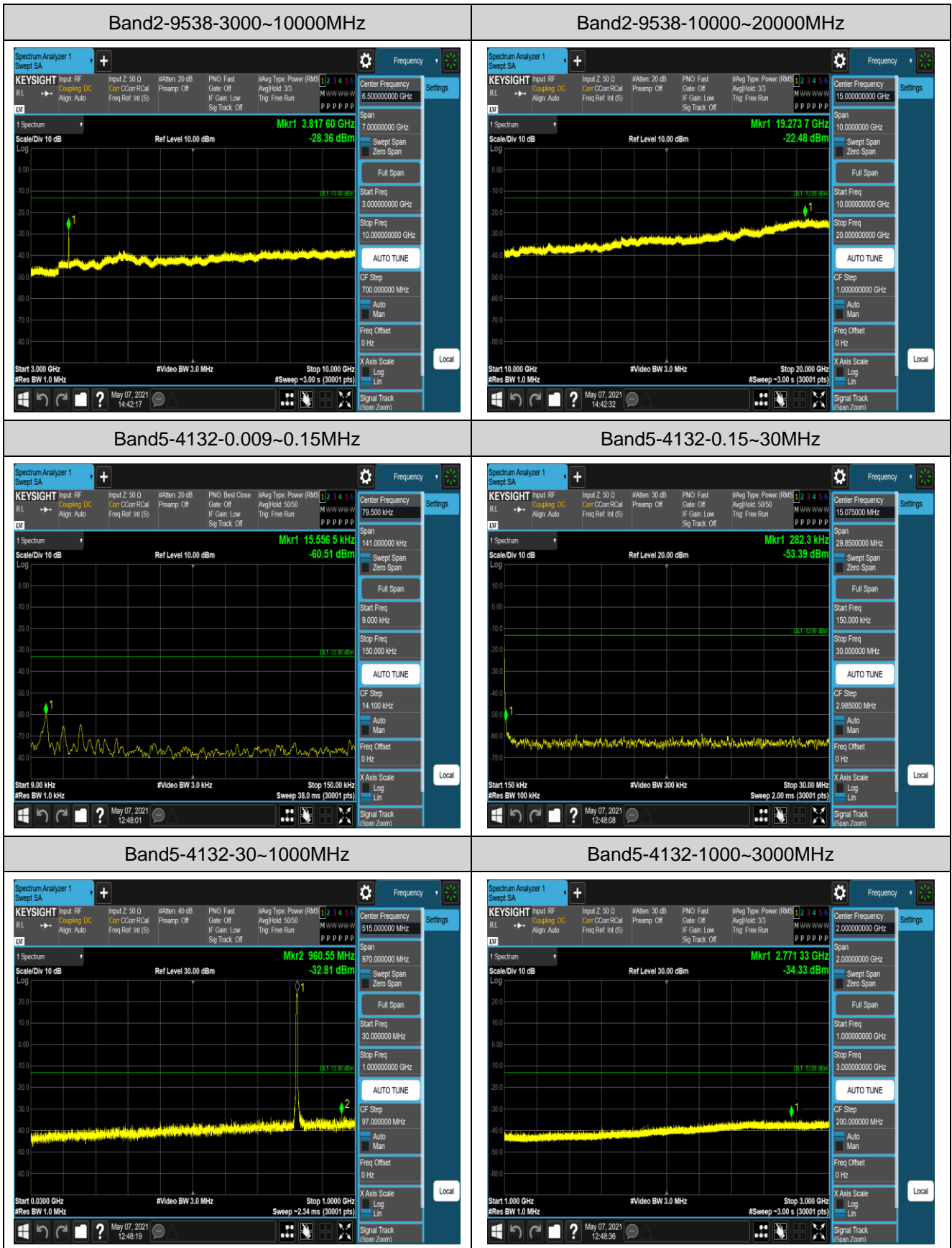
Band5	4233	0.15~30MHz	0.28	-54.33	-13	PASS
Band5	4233	30~1000MHz	724.04	-33.77	-13	PASS
Band5	4233	1000~3000MHz	2543.13	-34.03	-13	PASS
Band5	4233	3000~10000MHz	8092.27	-25.99	-13	PASS
Band5	4233	10000~18000MHz	17774.13	-28.94	-13	PASS

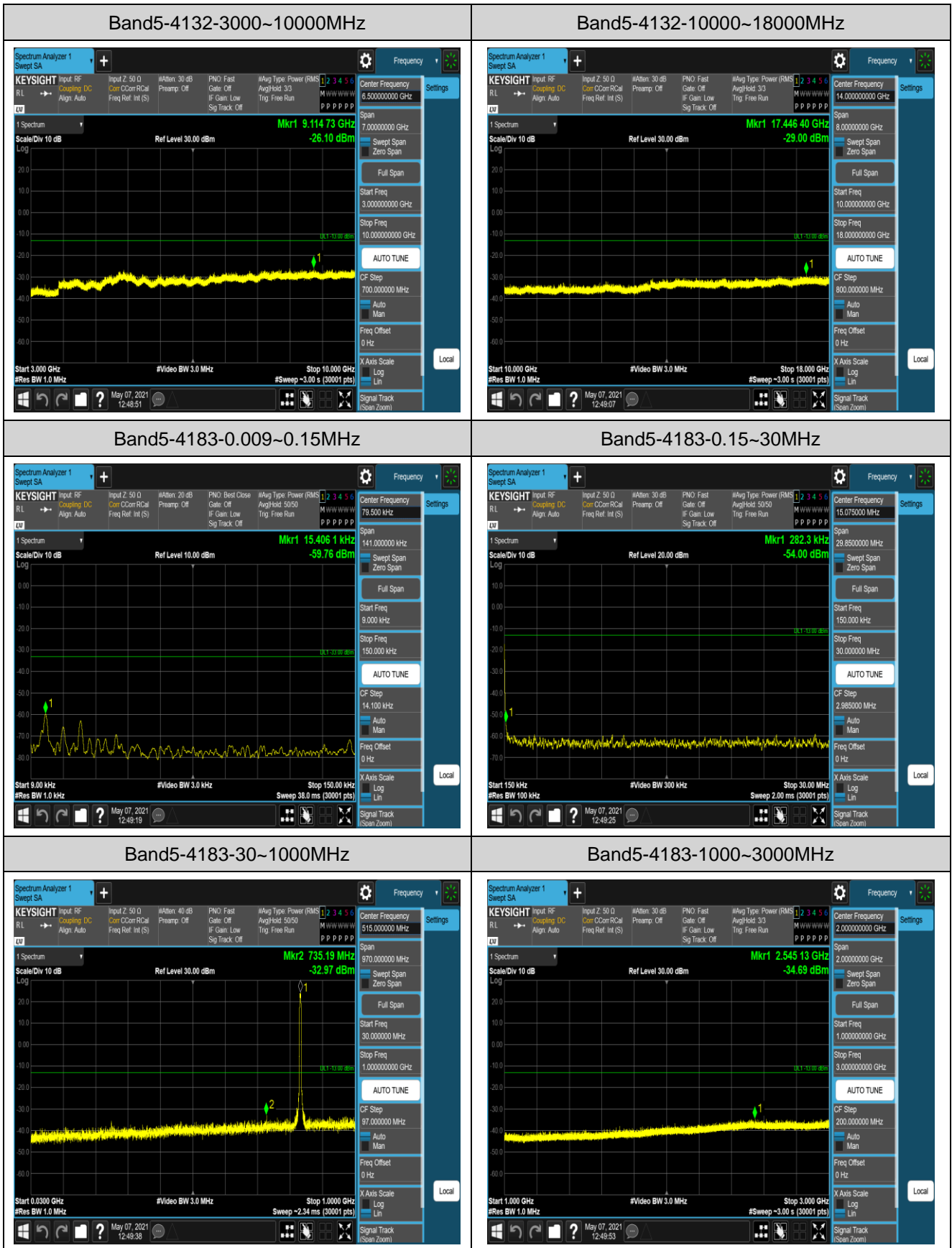
Test Graphs(WCDMA)

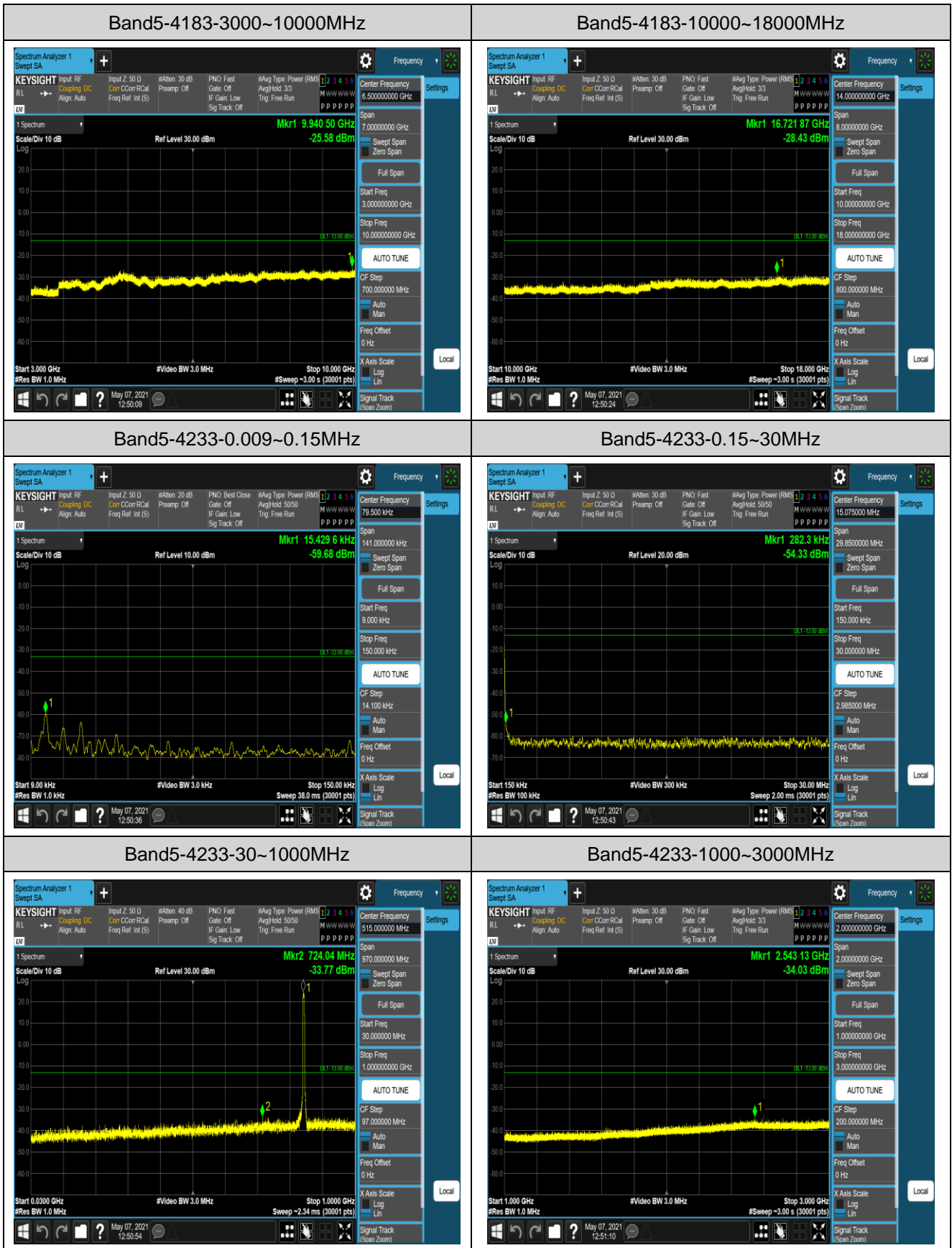


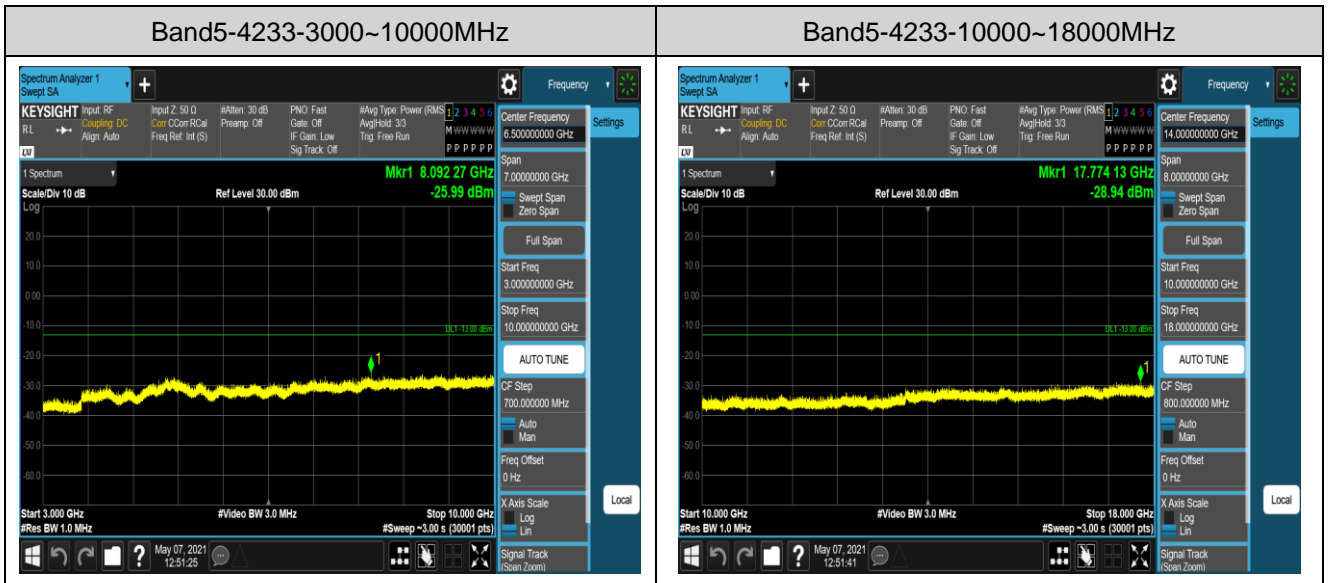












Appendix F: Frequency Stability

Test Result (the worst channel)

Voltage					
Reference Frequency: UMTS 850 12.2k RMC Middle channel=4183 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	7.98	0.004245	±2.5	Pass
	3.70	2.20	0.001170		
	4.20	-4.34	-0.002309		
Reference Frequency: UMTS 1900 12.2k RMC Middle channel=9400 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.17	0.002594	Within authorized band for WCDMA 1900	Pass
	3.70	-0.56	-0.000669		
	4.20	-0.04	-0.000048		
Note: Only the worst case shown in the report.					

Temperature					
Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-2.92	-0.001553	±2.5	Pass
	-20	-0.72	-0.000383		
	-10	-2.84	-0.001511		
	0	-4.36	-0.002319		
	10	-0.40	-0.000213		
	20	-2.17	-0.001154		
	30	1.24	0.000660		
	40	0.79	0.000420		
	50	2.47	0.001314		
Reference Frequency: WCDMA BAND II 12.2k RMC Middle channel=9400 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-2.17	-0.002594	Within authorized band for WCDMA 1900	Pass
	-20	1.70	0.002032		
	-10	1.17	0.001399		
	0	-0.74	-0.000885		
	10	1.37	0.001638		
	20	2.97	0.003550		
	30	0.43	0.000514		
	40	-0.82	-0.000980		
	50	-0.65	-0.000777		
Note: Only the worst case shown in the report.					