

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	23	-1.20	21.80	33.00
Band2	RMC	9262	23.01	-1.20	21.81	33.00
Band2	Voice	9400	23.17	-1.20	21.97	33.00
Band2	RMC	9400	23.21	-1.20	22.01	33.00
Band2	Voice	9538	23.32	-1.20	22.12	33.00
Band2	RMC	9538	23.27	-1.20	22.07	33.00
Band5	Voice	4132	22.79	-2.00	18.64	38.45
Band5	RMC	4132	22.8	-2.00	18.65	38.45
Band5	Voice	4183	22.95	-2.00	18.80	38.45
Band5	RMC	4183	23.04	-2.00	18.89	38.45
Band5	Voice	4233	22.88	-2.00	18.73	38.45
Band5	RMC	4233	22.96	-2.00	18.81	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/ HSUPA)

Band	Type	Channel	SubTest	Average Power (dBm)	Antenna Gain (dBi)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)
Band2	HSDPA	9262	1	23.12	-1.20	21.92	33.00
Band2	HSDPA	9262	2	22.92	-1.20	21.72	33.00
Band2	HSDPA	9262	3	22.37	-1.20	21.17	33.00
Band2	HSDPA	9262	4	22.53	-1.20	21.33	33.00
Band2	HSDPA	9400	1	23.23	-1.20	22.03	33.00
Band2	HSDPA	9400	2	23.02	-1.20	21.82	33.00
Band2	HSDPA	9400	3	22.55	-1.20	21.35	33.00
Band2	HSDPA	9400	4	22.78	-1.20	21.58	33.00
Band2	HSDPA	9538	1	22.81	-1.20	21.61	33.00
Band2	HSDPA	9538	2	22.44	-1.20	21.24	33.00
Band2	HSDPA	9538	3	22.29	-1.20	21.09	33.00

Band2	HSDPA	9538	4	22.32	-1.20	21.12	33.00
Band2	HSUPA	9262	1	20.55	-1.20	19.35	33.00
Band2	HSUPA	9262	2	20.92	-1.20	19.72	33.00
Band2	HSUPA	9262	3	20.47	-1.20	19.27	33.00
Band2	HSUPA	9262	4	20.79	-1.20	19.59	33.00
Band2	HSUPA	9262	5	22.98	-1.20	21.78	33.00
Band2	HSUPA	9400	1	20.71	-1.20	19.51	33.00
Band2	HSUPA	9400	2	21.13	-1.20	19.93	33.00
Band2	HSUPA	9400	3	20.56	-1.20	19.36	33.00
Band2	HSUPA	9400	4	20.87	-1.20	19.67	33.00
Band2	HSUPA	9400	5	23.02	-1.20	21.82	33.00
Band2	HSUPA	9538	1	20.14	-1.20	18.94	33.00
Band2	HSUPA	9538	2	20.61	-1.20	19.41	33.00
Band2	HSUPA	9538	3	20.11	-1.20	18.91	33.00
Band2	HSUPA	9538	4	20.44	-1.20	19.24	33.00
Band2	HSUPA	9538	5	22.77	-1.20	21.57	33.00
Band5	HSDPA	4132	1	22.39	-2.00	18.24	38.45
Band5	HSDPA	4132	2	22.24	-2.00	18.09	38.45
Band5	HSDPA	4132	3	21.81	-2.00	17.66	38.45
Band5	HSDPA	4132	4	21.84	-2.00	17.69	38.45
Band5	HSDPA	4183	1	22	-2.00	17.85	38.45
Band5	HSDPA	4183	2	22.09	-2.00	17.94	38.45
Band5	HSDPA	4183	3	21.7	-2.00	17.55	38.45
Band5	HSDPA	4183	4	21.69	-2.00	17.54	38.45
Band5	HSDPA	4233	1	22.51	-2.00	18.36	38.45
Band5	HSDPA	4233	2	22.19	-2.00	18.04	38.45
Band5	HSDPA	4233	3	21.78	-2.00	17.63	38.45
Band5	HSDPA	4233	4	21.83	-2.00	17.68	38.45
Band5	HSUPA	4132	1	21.08	-2.00	16.93	38.45
Band5	HSUPA	4132	2	21.17	-2.00	17.02	38.45
Band5	HSUPA	4132	3	20.54	-2.00	16.39	38.45
Band5	HSUPA	4132	4	20.33	-2.00	16.18	38.45
Band5	HSUPA	4132	5	22.37	-2.00	18.22	38.45
Band5	HSUPA	4183	1	20.91	-2.00	16.76	38.45
Band5	HSUPA	4183	2	21.01	-2.00	16.86	38.45

Band5	HSUPA	4183	3	20.47	-2.00	16.32	38.45
Band5	HSUPA	4183	4	20.27	-2.00	16.12	38.45
Band5	HSUPA	4183	5	22.23	-2.00	18.08	38.45
Band5	HSUPA	4233	1	20.91	-2.00	16.76	38.45
Band5	HSUPA	4233	2	21.06	-2.00	16.91	38.45
Band5	HSUPA	4233	3	20.63	-2.00	16.48	38.45
Band5	HSUPA	4233	4	20.43	-2.00	16.28	38.45
Band5	HSUPA	4233	5	22.32	-2.00	18.17	38.45

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi). (For Band2)

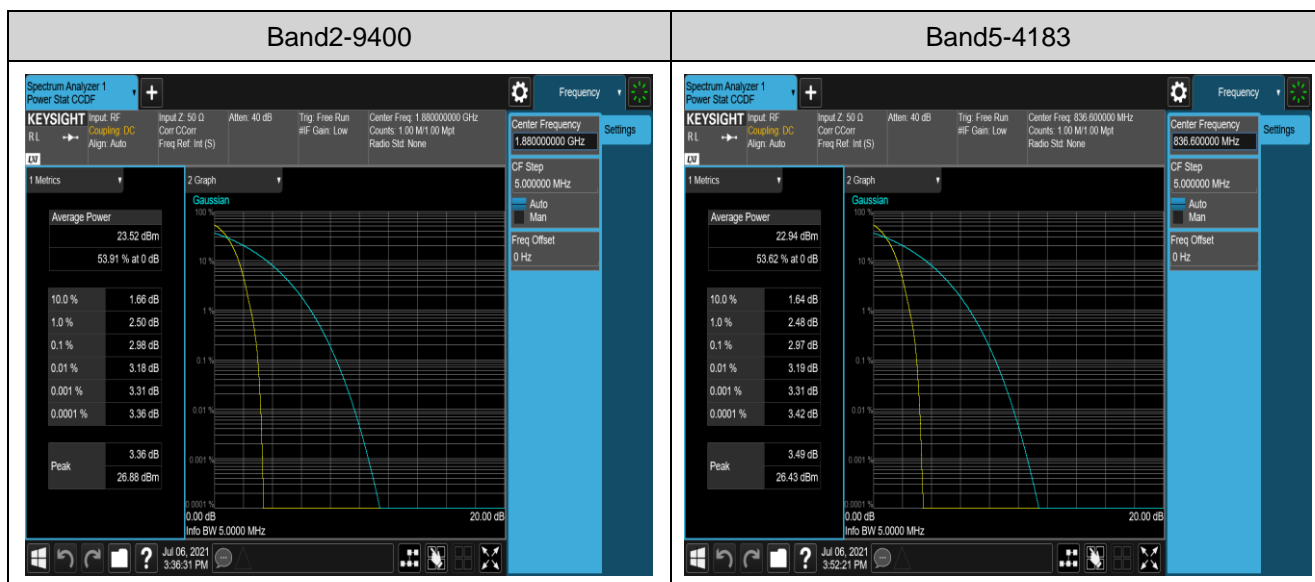
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.98	13	PASS
Band5	4183	2.97	13	PASS

Test Graphs(WCDMA)

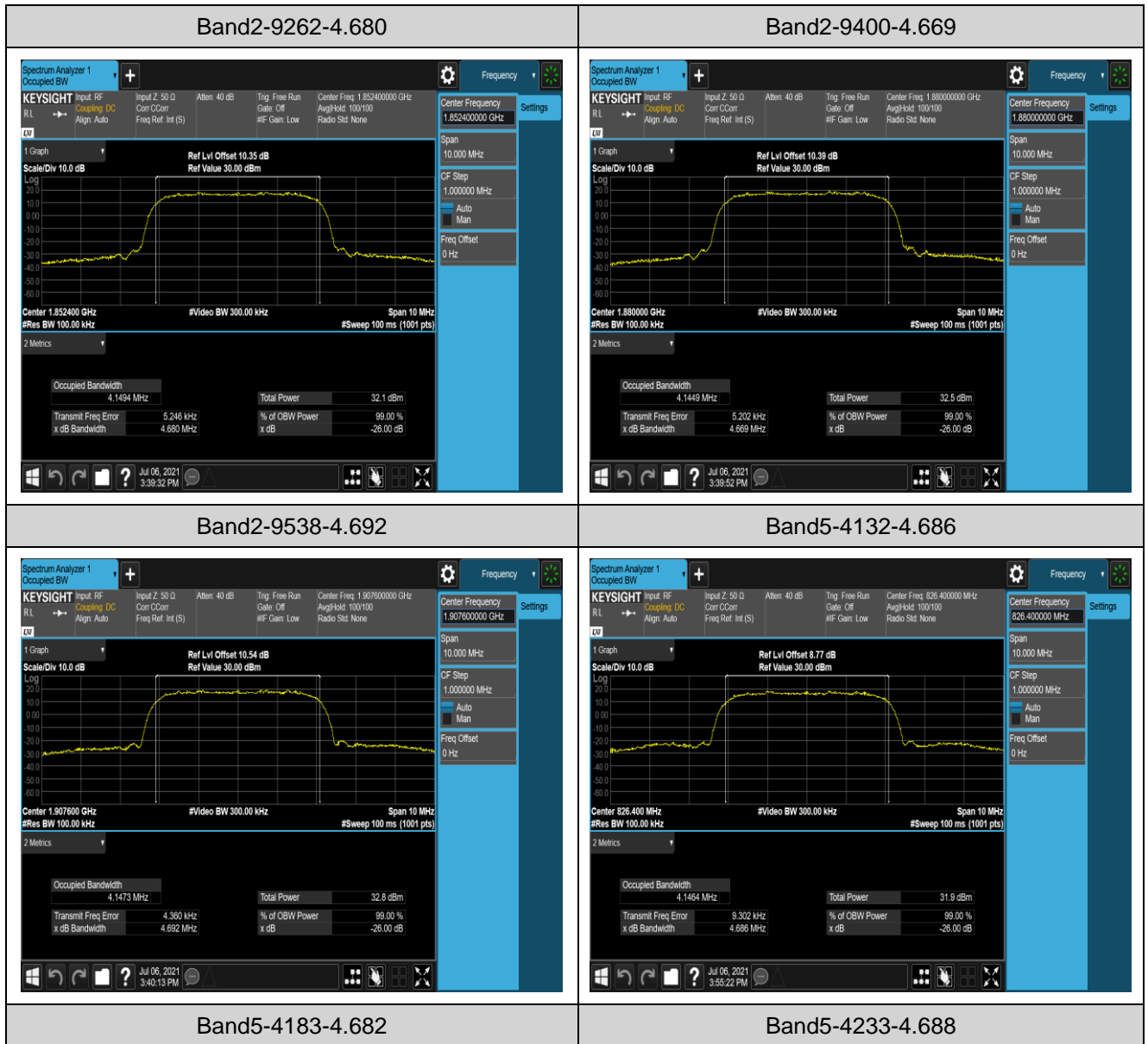


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1494	4.680	---	PASS
Band2	9400	4.1449	4.669	---	PASS
Band2	9538	4.1473	4.692	---	PASS
Band5	4132	4.1464	4.686	---	PASS
Band5	4183	4.1528	4.682	---	PASS
Band5	4233	4.1532	4.688	---	PASS

Test Graphs(WCDMA)



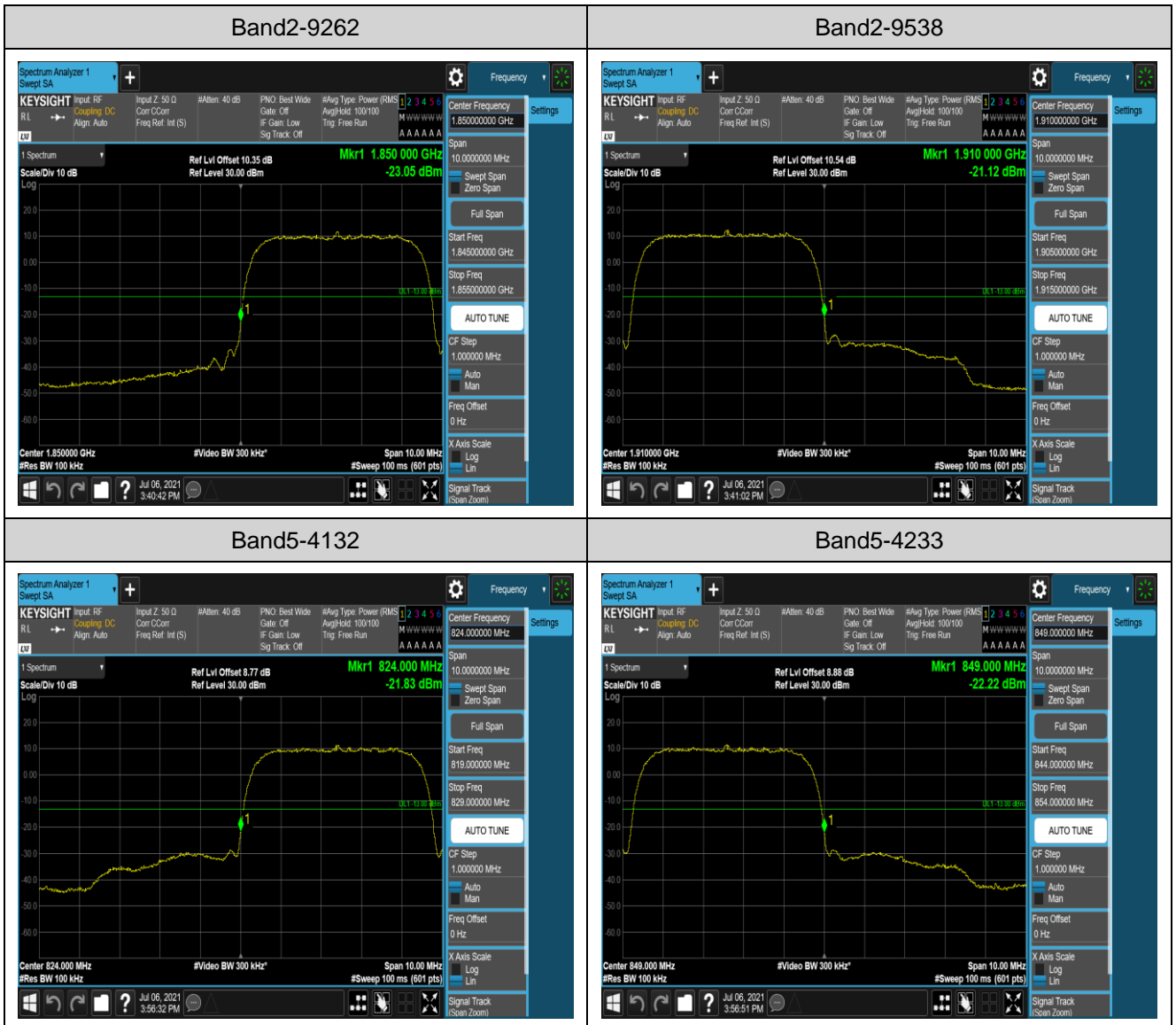


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-23.05	-13	PASS
Band2	9538	1910.00	-21.12	-13	PASS
Band5	4132	824.00	-21.83	-13	PASS
Band5	4233	849.00	-22.22	-13	PASS

Test Graphs(WCDMA)



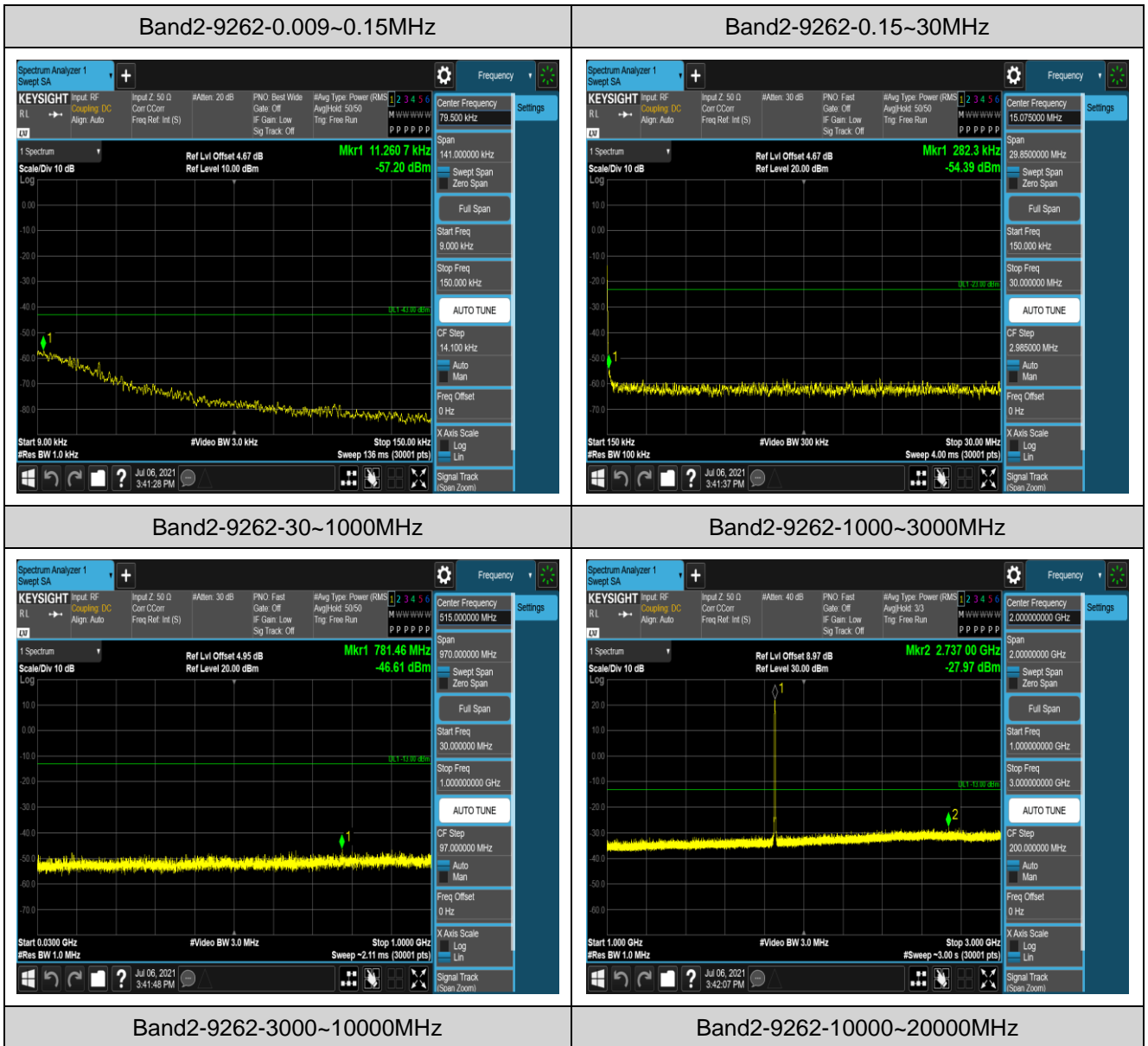
AppendixE:Conducted SpuriousEmission

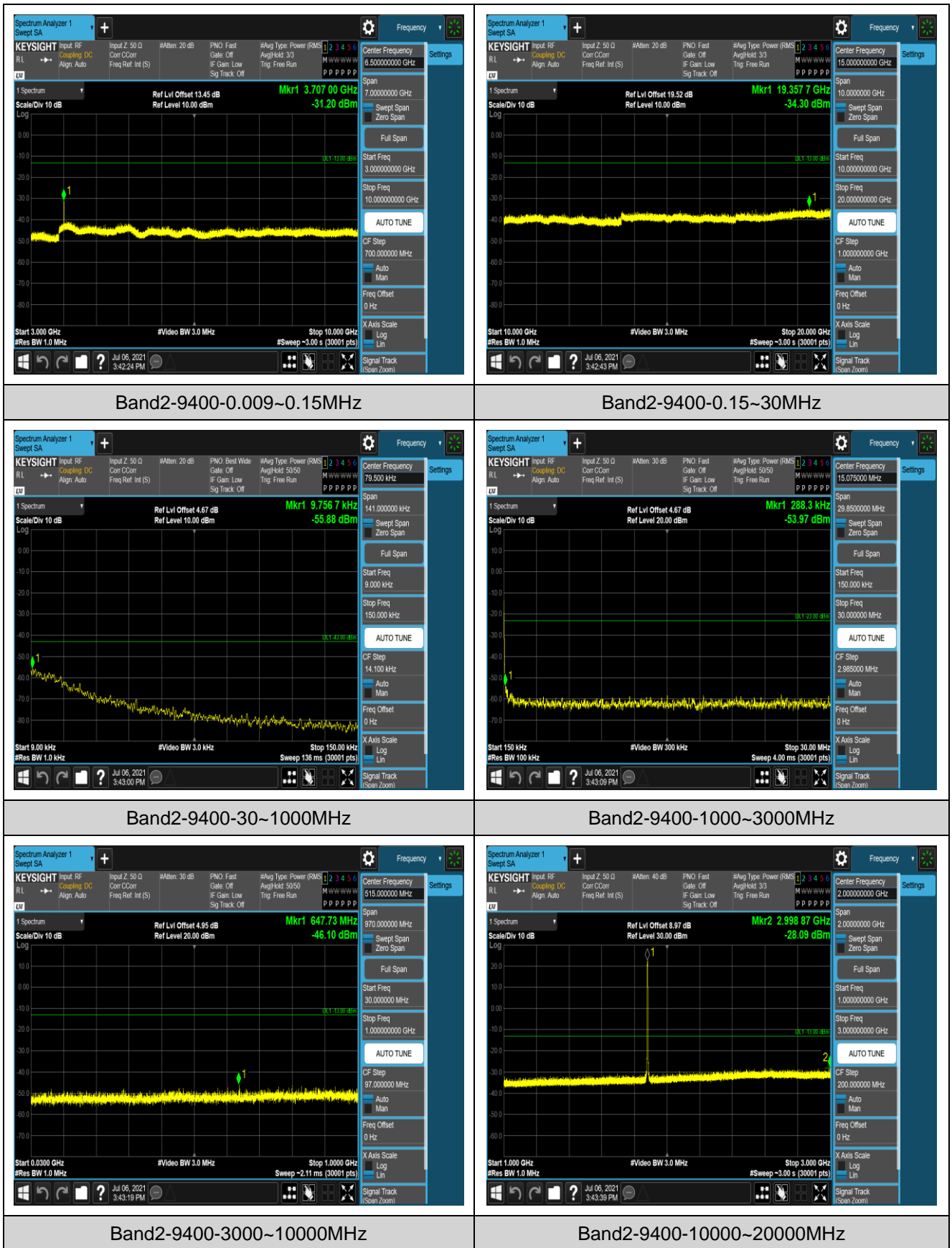
Test Result(WCDMA)

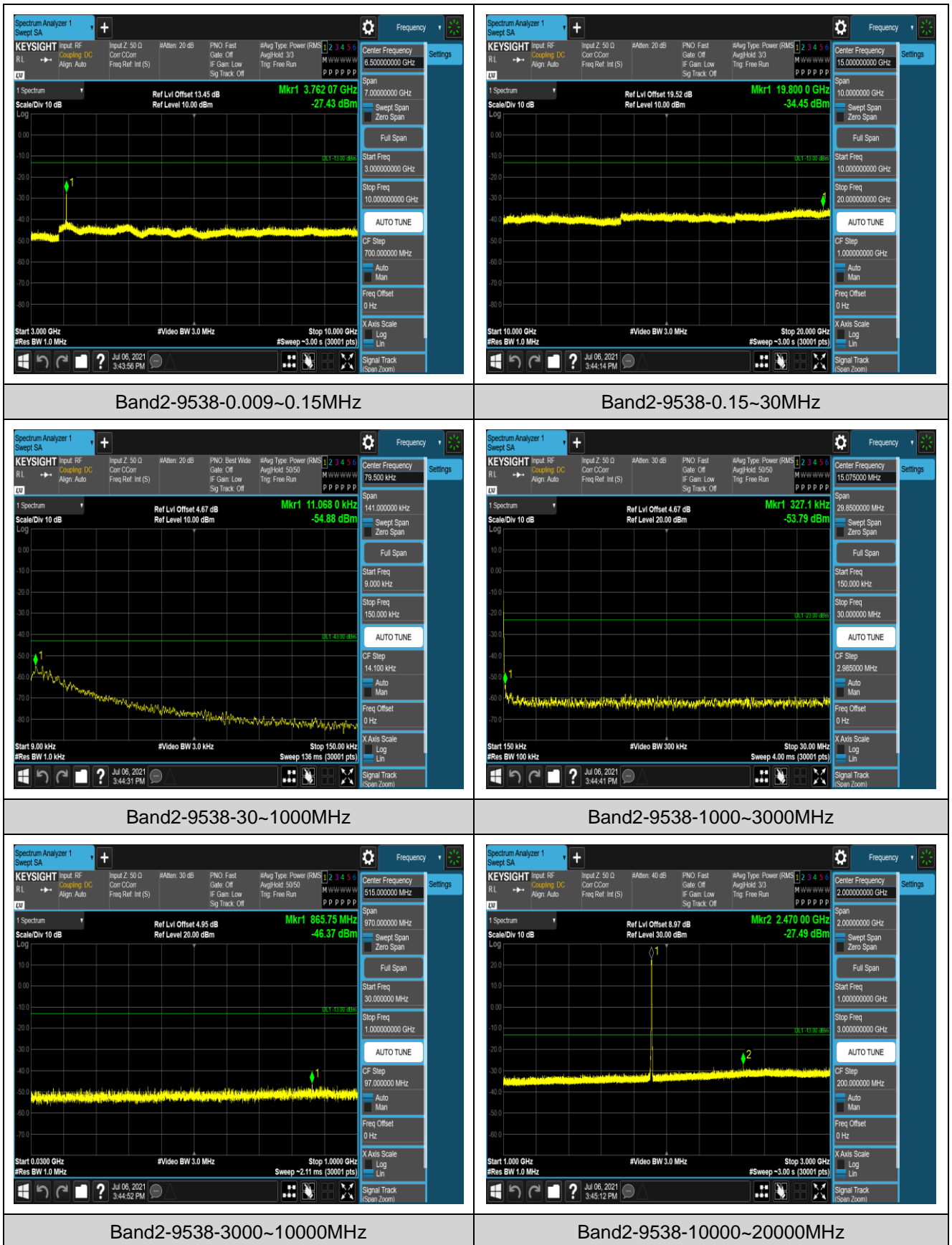
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-57.2	-43	PASS
Band2	9262	0.15~30MHz	0.28	-54.39	-23	PASS
Band2	9262	30~1000MHz	781.46	-46.61	-13	PASS
Band2	9262	1000~3000MHz	2737	-27.97	-13	PASS
Band2	9262	3000~10000MHz	3707	-31.2	-13	PASS
Band2	9262	10000~20000MHz	19357.67	-34.3	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-55.88	-43	PASS
Band2	9400	0.15~30MHz	0.29	-53.97	-23	PASS
Band2	9400	30~1000MHz	647.73	-46.1	-13	PASS
Band2	9400	1000~3000MHz	2998.87	-28.09	-13	PASS
Band2	9400	3000~10000MHz	3762.07	-27.43	-13	PASS
Band2	9400	10000~20000MHz	19800	-34.45	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-54.88	-43	PASS
Band2	9538	0.15~30MHz	0.33	-53.79	-23	PASS
Band2	9538	30~1000MHz	865.75	-46.37	-13	PASS
Band2	9538	1000~3000MHz	2470	-27.49	-13	PASS
Band2	9538	3000~10000MHz	3816.9	-24.9	-13	PASS
Band2	9538	10000~20000MHz	19846	-33.68	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.25	-33	PASS
Band5	4132	0.15~30MHz	0.29	-52.51	-13	PASS
Band5	4132	30~1000MHz	650.09	-37.57	-13	PASS
Band5	4132	1000~3000MHz	2926.33	-35.34	-13	PASS
Band5	4132	3000~10000MHz	3693.47	-40.68	-13	PASS
Band5	4132	10000~18000MHz	16428.27	-43.3	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.02	-33	PASS
Band5	4183	0.15~30MHz	0.28	-53.08	-13	PASS
Band5	4183	30~1000MHz	946.17	-37	-13	PASS
Band5	4183	1000~3000MHz	2630.87	-35.71	-13	PASS
Band5	4183	3000~10000MHz	3699.3	-39.97	-13	PASS
Band5	4183	10000~18000MHz	17616.53	-43.62	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-54.49	-33	PASS

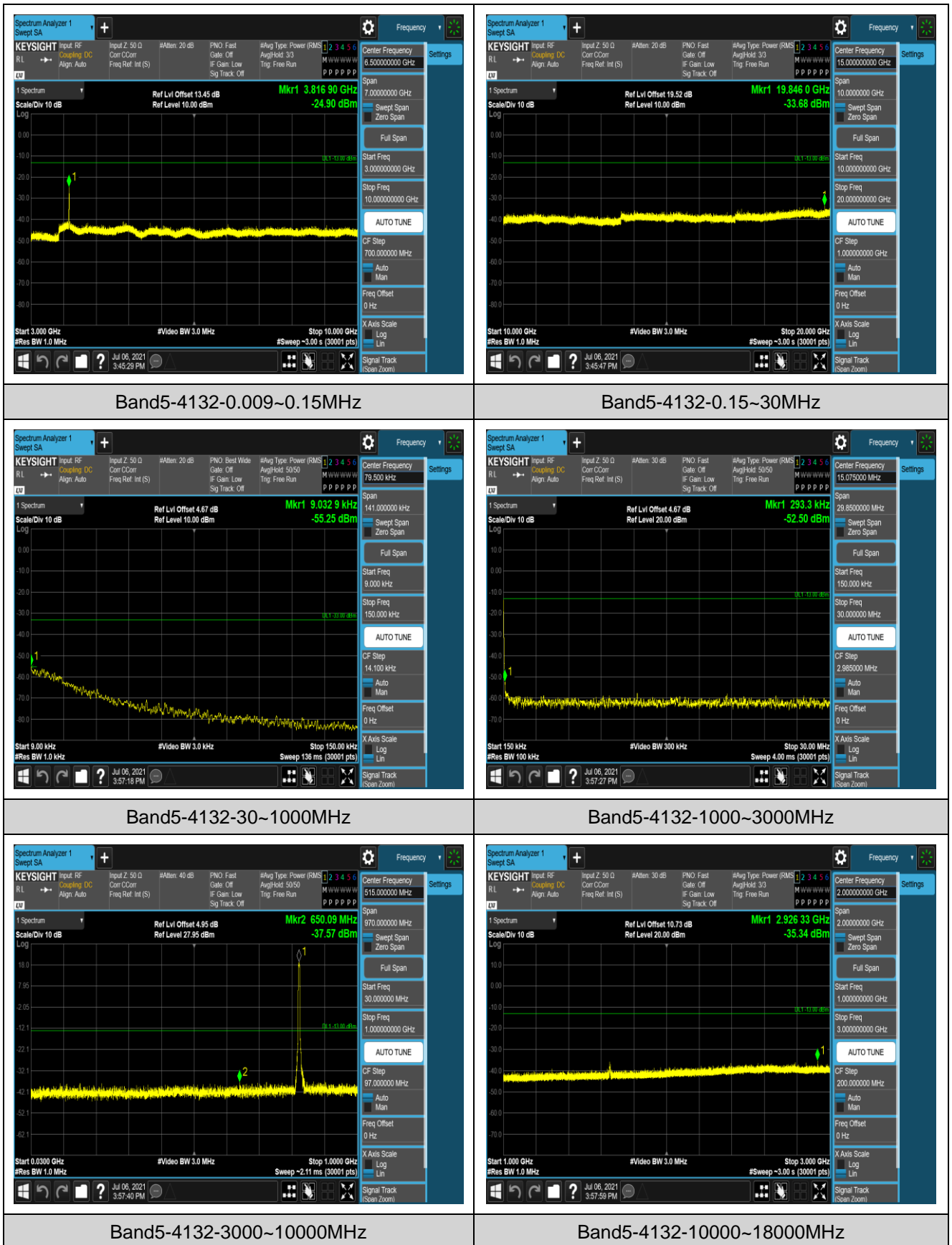
Band5	4233	0.15~30MHz	0.28	-54.27	-13	PASS
Band5	4233	30~1000MHz	624	-37.1	-13	PASS
Band5	4233	1000~3000MHz	2658.33	-35.58	-13	PASS
Band5	4233	3000~10000MHz	3713.07	-40.54	-13	PASS
Band5	4233	10000~18000MHz	15378.67	-43.14	-13	PASS

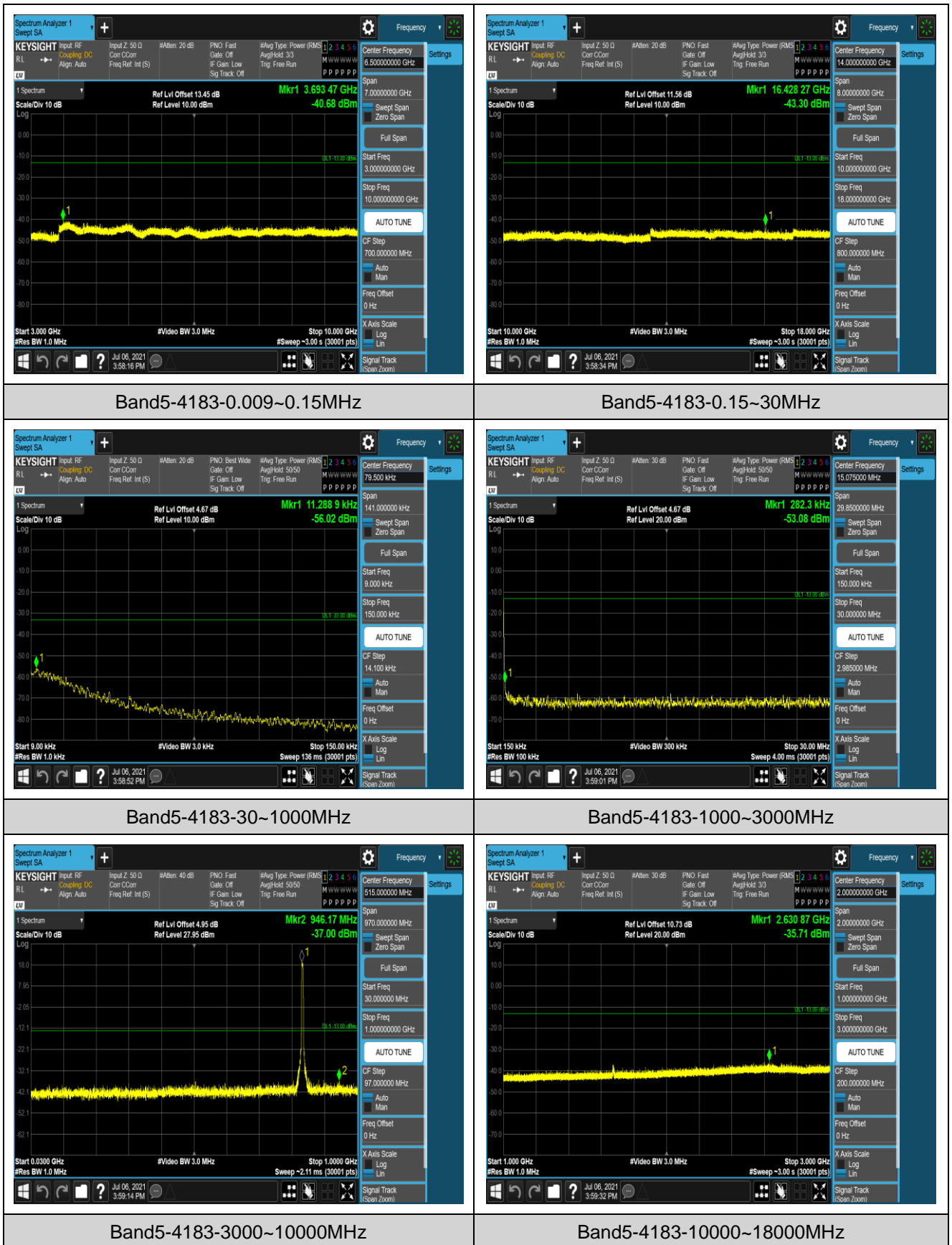
Test Graphs(WCDMA)

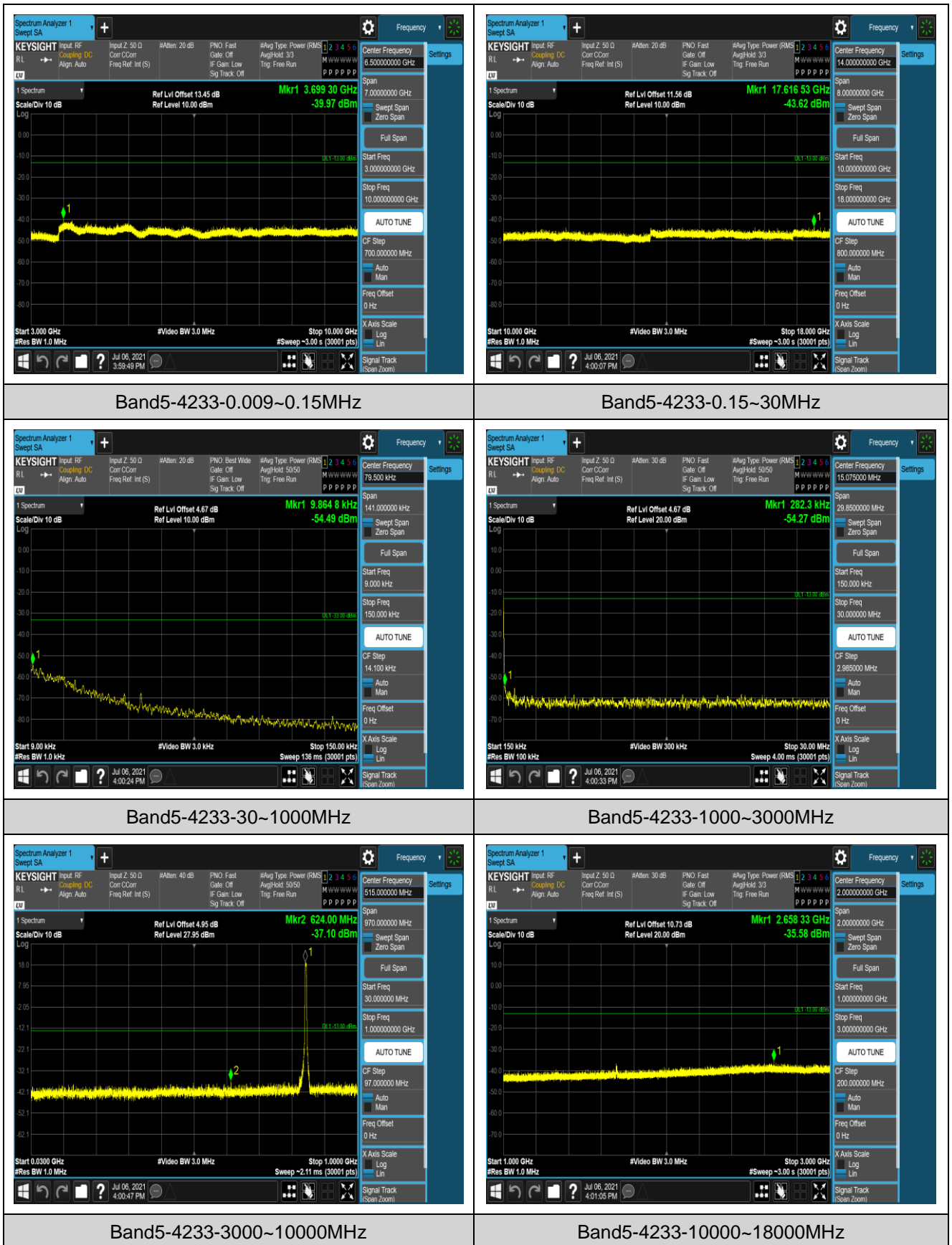














Appendix F: Frequency Stability

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	-2.91	-0.003478	±2.5	Pass
	-20	1.09	0.001303		
	-10	-1.33	-0.001590		
	0	-3.28	-0.003921		
	10	-3.11	-0.003717		
	20	-2.43	-0.002905		
	30	-0.19	-0.000227		
	40	-1.07	-0.001279		
	50	-1.28	-0.001530		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.18	0.000215	±2.5	Pass
	3.80	-1.20	-0.001434		
	4.25	-0.39	-0.000466		
<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	4.25	0.002261	Within authorized band for BAND II	Pass
	-20	1.70	0.000904		
	-10	1.44	0.000766		
	0	3.84	0.002043		
	10	-3.70	-0.001968		
	20	2.54	0.001351		
	30	9.06	0.004819		
	40	8.05	0.004282		
	50	11.44	0.006085		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.34	0.000181	Within authorized band for BAND II	Pass
	3.80	0.67	0.000356		
	4.25	1.09	0.000580		
<i>Note: Only the worst case shown in the report.</i>					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band2	9262	PASS	PASS
Band2	9400	PASS	PASS
Band2	9538	PASS	PASS
Band5	4132	PASS	PASS
Band5	4182	PASS	PASS
Band5	4233	PASS	PASS

Test Graphs

