

## Appendix A: 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	22.56	22.99	33.01	PASS
Band2	TestMode	9262	22.54	22.97	33.01	PASS
Band2	TestMode	9400	22.44	22.87	33.01	PASS
Band2	Voice	9400	22.47	22.90	33.01	PASS
Band2	TestMode	9538	22.33	22.76	33.01	PASS
Band2	Voice	9538	22.33	22.76	33.01	PASS
Band4	Voice	1312	22.66	23.06	30.00	PASS
Band4	TestMode	1312	22.68	23.08	30.00	PASS
Band4	Voice	1413	22.75	23.15	30.00	PASS
Band4	TestMode	1413	22.80	23.20	30.00	PASS
Band4	TestMode	1513	22.77	23.17	30.00	PASS
Band4	Voice	1513	22.69	23.09	30.00	PASS
Band5	Voice	4132	22.56	20.52	38.45	PASS
Band5	TestMode	4132	22.55	20.51	38.45	PASS
Band5	TestMode	4183	22.67	20.63	38.45	PASS
Band5	Voice	4183	22.62	20.58	38.45	PASS
Band5	Voice	4233	22.62	20.58	38.45	PASS
Band5	TestMode	4233	22.65	20.61	38.45	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.80	23.23	33.01	PASS
Band2	9262	2	22.65	23.08	33.01	PASS
Band2	9262	3	21.25	21.68	33.01	PASS
Band2	9262	4	21.29	21.72	33.01	PASS
Band2	9400	1	22.64	23.07	33.01	PASS
Band2	9400	2	22.52	22.95	33.01	PASS
Band2	9400	3	21.12	21.55	33.01	PASS
Band2	9400	4	21.17	21.60	33.01	PASS
Band2	9538	1	22.51	22.94	33.01	PASS
Band2	9538	2	22.40	22.83	33.01	PASS
Band2	9538	3	21.12	21.55	33.01	PASS
Band2	9538	4	21.15	21.58	33.01	PASS

Band4	1312	1	21.46	21.86	30.00	PASS
Band4	1312	2	21.58	21.98	30.00	PASS
Band4	1312	3	21.55	21.95	30.00	PASS
Band4	1312	4	21.56	21.96	30.00	PASS
Band4	1413	1	21.36	21.76	30.00	PASS
Band4	1413	2	21.47	21.87	30.00	PASS
Band4	1413	3	21.41	21.81	30.00	PASS
Band4	1413	4	21.47	21.87	30.00	PASS
Band4	1513	1	21.59	21.99	30.00	PASS
Band4	1513	2	21.68	22.08	30.00	PASS
Band4	1513	3	21.62	22.02	30.00	PASS
Band4	1513	4	21.67	22.07	30.00	PASS
Band5	4132	1	23.13	21.09	38.5	PASS
Band5	4132	2	22.47	20.43	38.5	PASS
Band5	4132	3	21.05	19.01	38.5	PASS
Band5	4132	4	21.05	19.01	38.5	PASS
Band5	4183	1	23.35	21.31	38.5	PASS
Band5	4183	2	22.63	20.59	38.5	PASS
Band5	4183	3	21.23	19.19	38.5	PASS
Band5	4183	4	21.27	19.23	38.5	PASS
Band5	4233	1	23.15	21.11	38.5	PASS
Band5	4233	2	22.40	20.36	38.5	PASS
Band5	4233	3	21.05	19.01	38.5	PASS
Band5	4233	4	21.09	19.05	38.5	PASS

**Test Result(HSUPA)**

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.64	20.07	33.01	PASS
Band2	9262	2	20.07	20.50	33.01	PASS
Band2	9262	3	20.02	20.45	33.01	PASS
Band2	9262	4	20.45	20.88	33.01	PASS
Band2	9262	5	22.02	22.45	33.01	PASS
Band2	9400	1	18.93	19.36	33.01	PASS
Band2	9400	2	19.88	20.31	33.01	PASS
Band2	9400	3	19.32	19.75	33.01	PASS
Band2	9400	4	20.01	20.44	33.01	PASS
Band2	9400	5	21.80	22.23	33.01	PASS
Band2	9538	1	19.49	19.92	33.01	PASS
Band2	9538	2	19.93	20.36	33.01	PASS
Band2	9538	3	19.48	19.91	33.01	PASS

Band2	9538	4	20.05	20.48	33.01	PASS
Band2	9538	5	21.76	22.19	33.01	PASS
Band4	1312	1	21.50	21.90	30.00	PASS
Band4	1312	2	21.53	21.93	30.00	PASS
Band4	1312	3	20.98	21.38	30.00	PASS
Band4	1312	4	21.27	21.67	30.00	PASS
Band4	1312	5	21.77	22.17	30.00	PASS
Band4	1413	1	21.75	22.15	30.00	PASS
Band4	1413	2	21.74	22.14	30.00	PASS
Band4	1413	3	21.74	22.14	30.00	PASS
Band4	1413	4	21.54	21.94	30.00	PASS
Band4	1413	5	21.72	22.12	30.00	PASS
Band4	1513	1	21.91	22.31	30.00	PASS
Band4	1513	2	21.94	22.34	30.00	PASS
Band4	1513	3	21.97	22.37	30.00	PASS
Band4	1513	4	21.76	22.16	30.00	PASS
Band4	1513	5	21.96	22.36	30.00	PASS
Band5	4132	1	20.44	18.40	38.5	PASS
Band5	4132	2	20.52	18.48	38.5	PASS
Band5	4132	3	20.29	18.25	38.5	PASS
Band5	4132	4	20.12	18.08	38.5	PASS
Band5	4132	5	23.38	21.34	38.5	PASS
Band5	4183	1	20.56	18.52	38.5	PASS
Band5	4183	2	20.62	18.58	38.5	PASS
Band5	4183	3	20.18	18.14	38.5	PASS
Band5	4183	4	20.26	18.22	38.5	PASS
Band5	4183	5	23.52	21.48	38.5	PASS
Band5	4233	1	19.75	17.71	38.5	PASS
Band5	4233	2	20.32	18.28	38.5	PASS
Band5	4233	3	20.07	18.03	38.5	PASS
Band5	4233	4	19.96	17.92	38.5	PASS
Band5	4233	5	23.36	21.32	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2 & 4)  
 ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

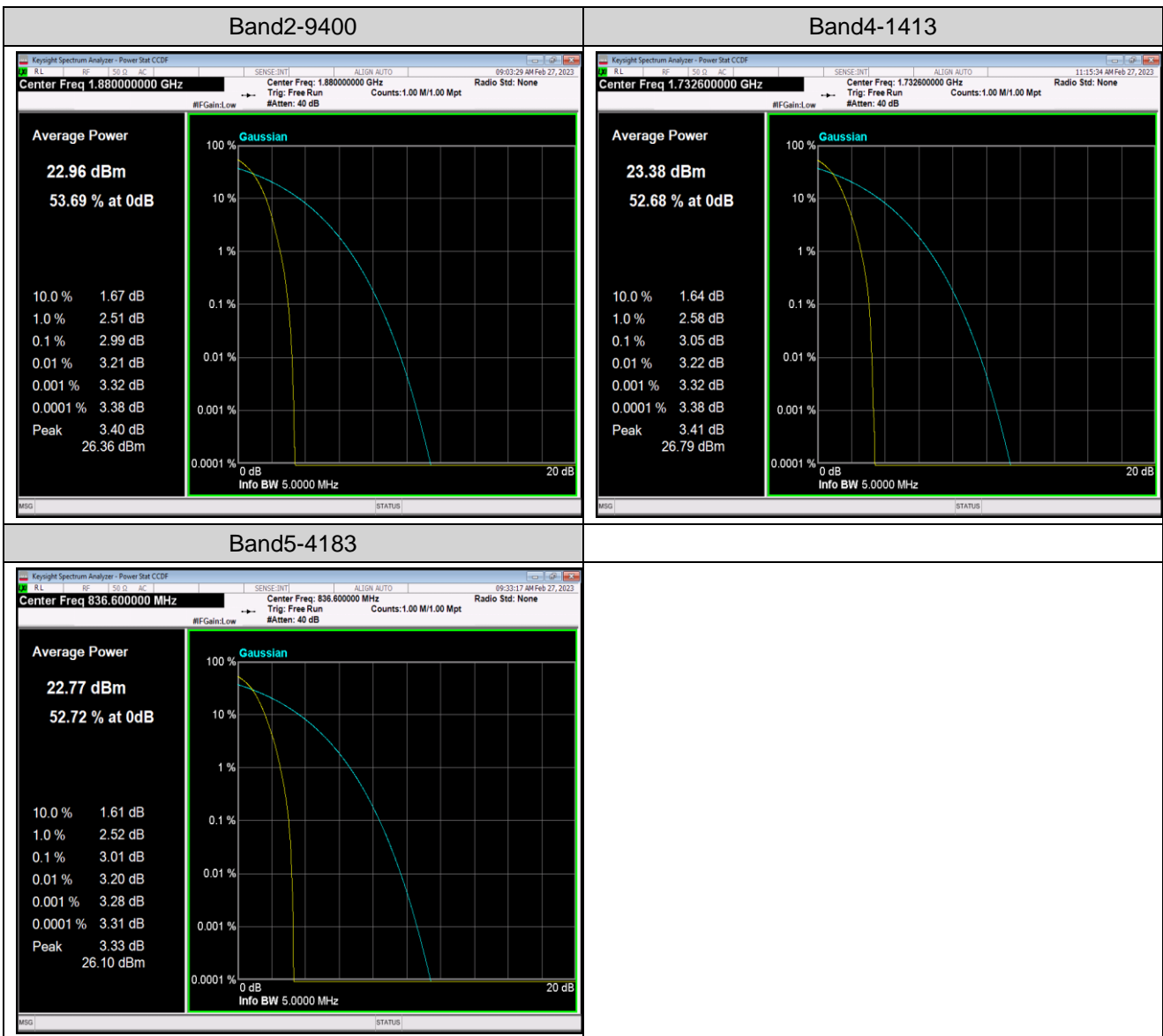
## AppendixB:Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.99	13	PASS
Band4	1413	3.05	13	PASS
Band5	4183	3.01	13	PASS

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

### Test Graphs(WCDMA)

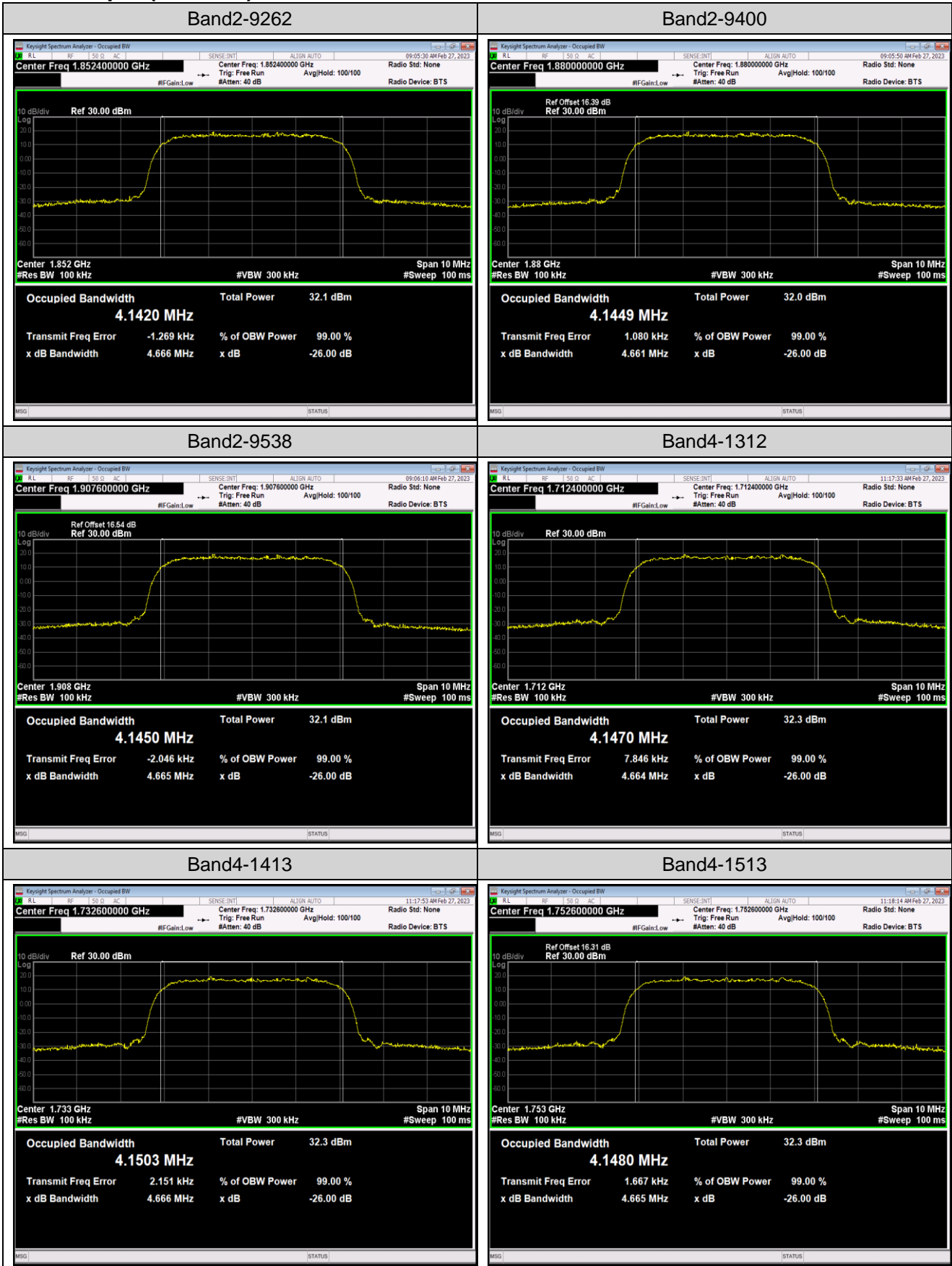


## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1420	4.666	---	PASS
Band2	9400	4.1449	4.661	---	PASS
Band2	9538	4.1450	4.665	---	PASS
Band4	1312	4.1470	4.664	---	PASS
Band4	1413	4.1503	4.666	---	PASS
Band4	1513	4.1480	4.665	---	PASS
Band5	4132	4.1455	4.664	---	PASS
Band5	4183	4.1499	4.667	---	PASS
Band5	4233	4.1463	4.660	---	PASS

Test Graphs(WCDMA)





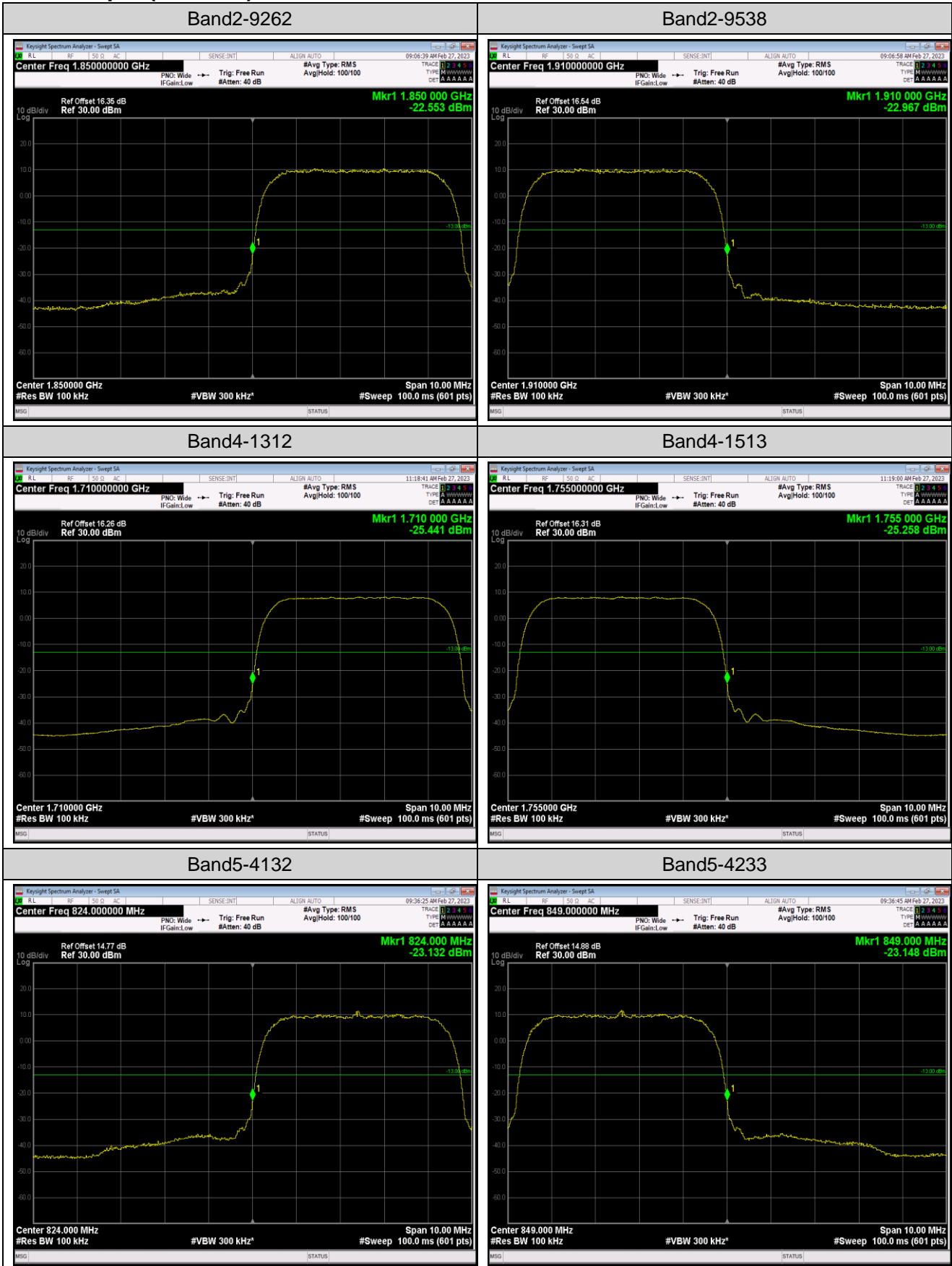
## AppendixD:Band Edge

### Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.55	-13	PASS
Band2	9538	1910.00	-22.97	-13	PASS
Band4	1312	1710.00	-25.44	-13	PASS
Band4	1513	1755.00	-25.26	-13	PASS
Band5	4132	824.00	-23.13	-13	PASS
Band5	4233	849.00	-23.15	-13	PASS



Test Graphs(WCDMA)

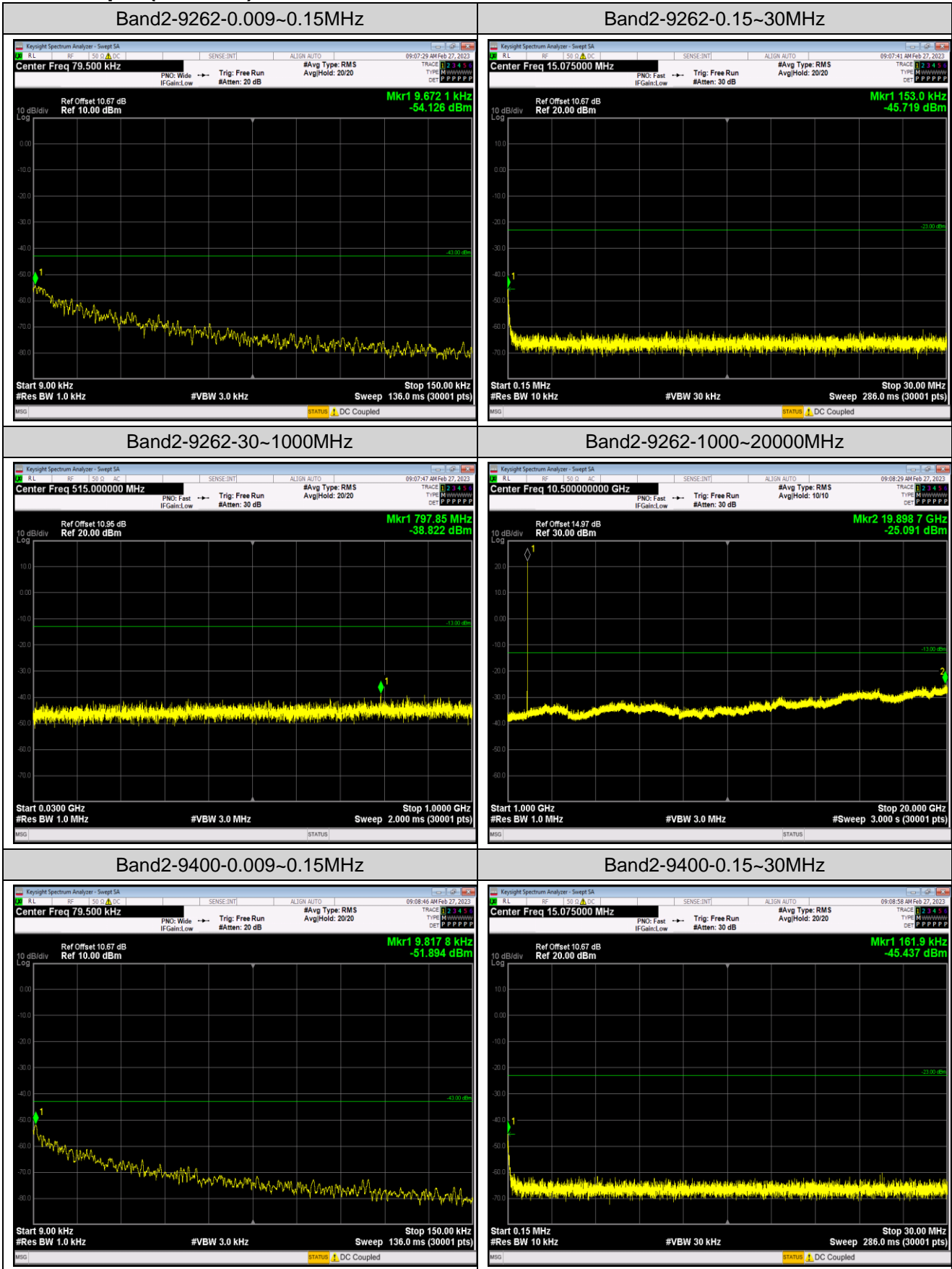


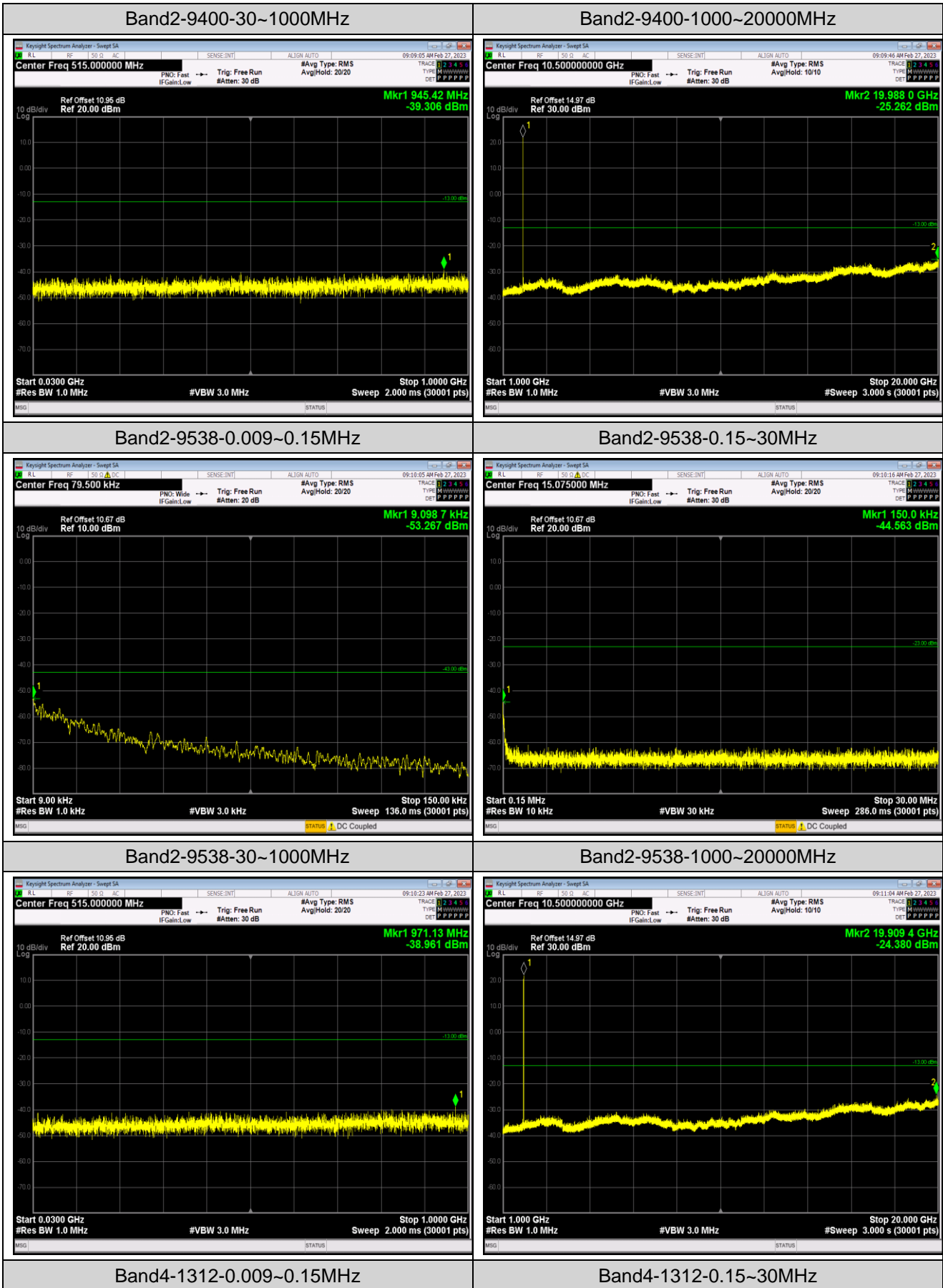
## Appendix E: Conducted Spurious Emission

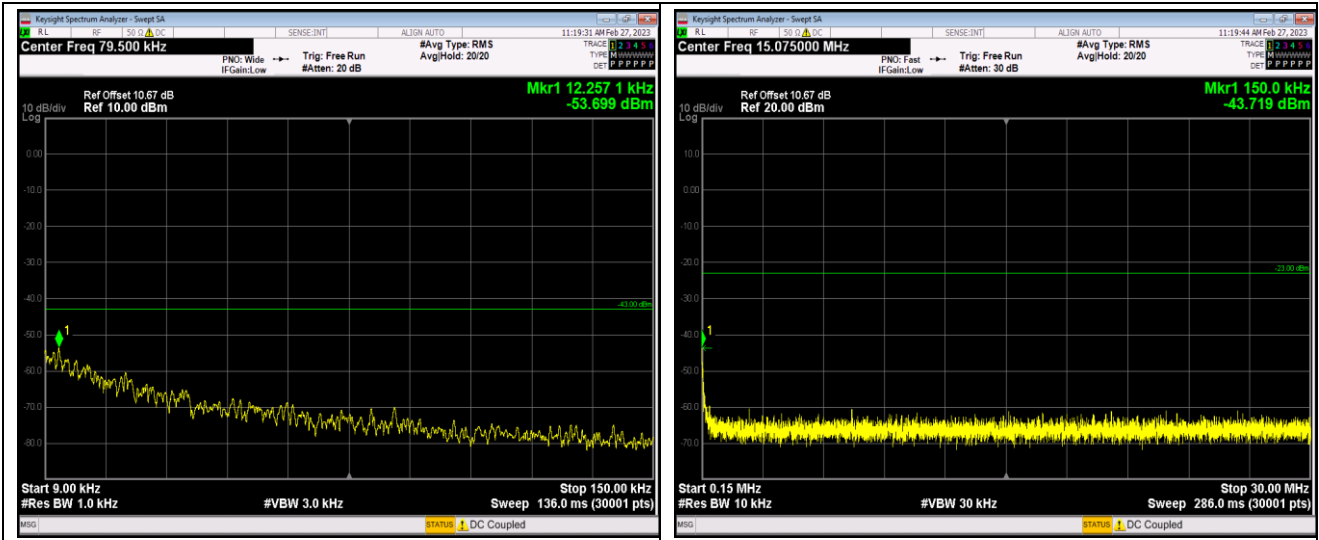
### Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.13	-43	PASS
Band2	9262	0.15~30MHz	0.15	-45.72	-23	PASS
Band2	9262	30~1000MHz	797.85	-38.82	-13	PASS
Band2	9262	1000~20000MHz	19898.67	-25.09	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-51.89	-43	PASS
Band2	9400	0.15~30MHz	0.16	-45.44	-23	PASS
Band2	9400	30~1000MHz	945.42	-39.31	-13	PASS
Band2	9400	1000~20000MHz	19987.97	-25.26	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-53.27	-43	PASS
Band2	9538	0.15~30MHz	0.15	-44.56	-23	PASS
Band2	9538	30~1000MHz	971.13	-38.96	-13	PASS
Band2	9538	1000~20000MHz	19909.43	-24.38	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-53.7	-43	PASS
Band4	1312	0.15~30MHz	0.15	-43.72	-23	PASS
Band4	1312	30~1000MHz	812.98	-40.33	-13	PASS
Band4	1312	1000~20000MHz	19450.27	-24.45	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-52.92	-43	PASS
Band4	1413	0.15~30MHz	0.15	-44.42	-23	PASS
Band4	1413	30~1000MHz	875.19	-40.4	-13	PASS
Band4	1413	1000~20000MHz	19964.53	-24.32	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-53.51	-43	PASS
Band4	1513	0.15~30MHz	0.18	-45.26	-23	PASS
Band4	1513	30~1000MHz	953.93	-40.14	-13	PASS
Band4	1513	1000~20000MHz	19918.93	-24.4	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-54.08	-33	PASS
Band5	4132	0.15~30MHz	0.16	-45.25	-13	PASS
Band5	4132	30~1000MHz	935.59	-48.38	-13	PASS
Band5	4132	1000~10000MHz	5894.2	-30.87	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-53.8	-33	PASS
Band5	4183	0.15~30MHz	0.16	-45.71	-13	PASS
Band5	4183	30~1000MHz	554.51	-48.33	-13	PASS
Band5	4183	1000~10000MHz	6023.8	-30.86	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-52.22	-33	PASS
Band5	4233	0.15~30MHz	0.16	-44.42	-13	PASS
Band5	4233	30~1000MHz	949.11	-49.54	-13	PASS
Band5	4233	1000~10000MHz	7294.9	-30.83	-13	PASS

Test Graphs(WCDMA)

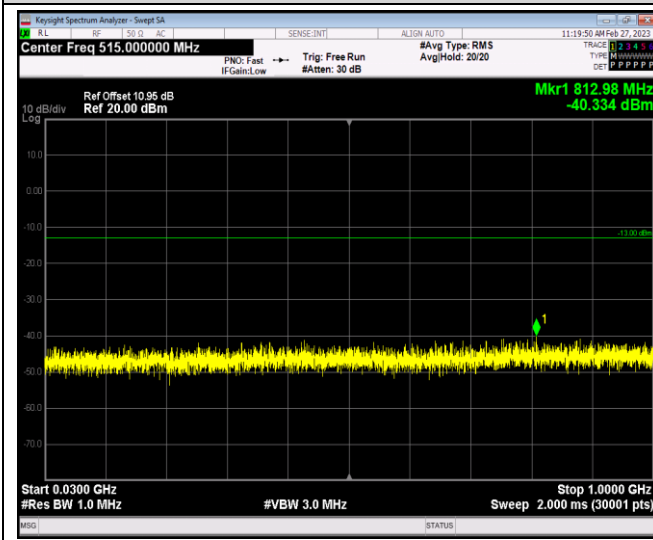




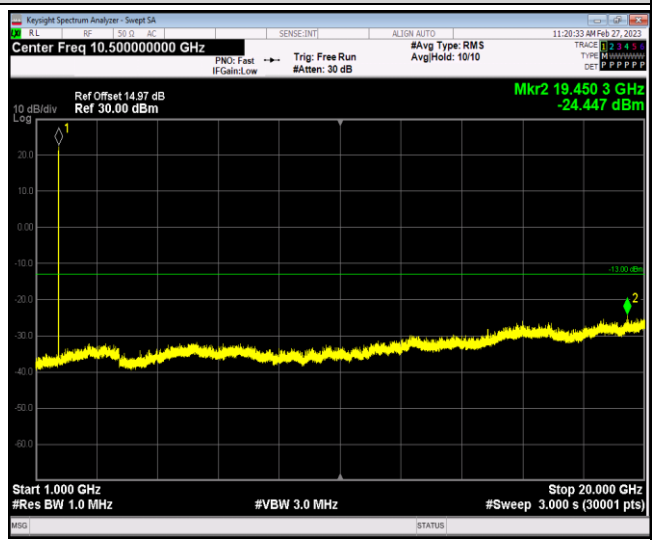


Band4-1312-30~1000MHz

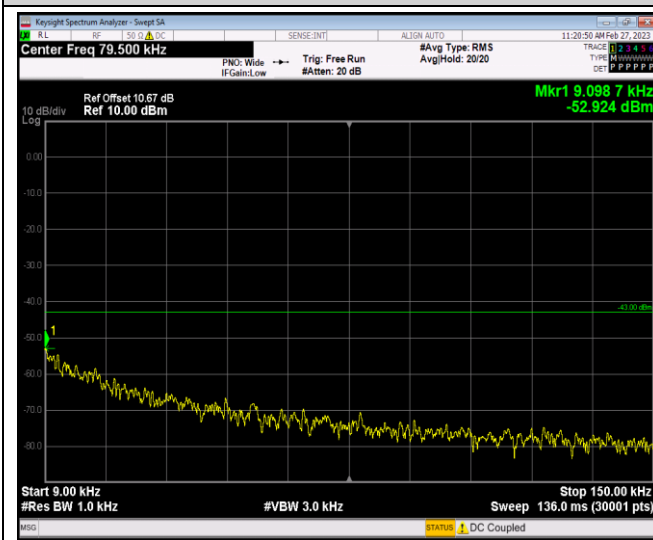
Band4-1312-1000~20000MHz



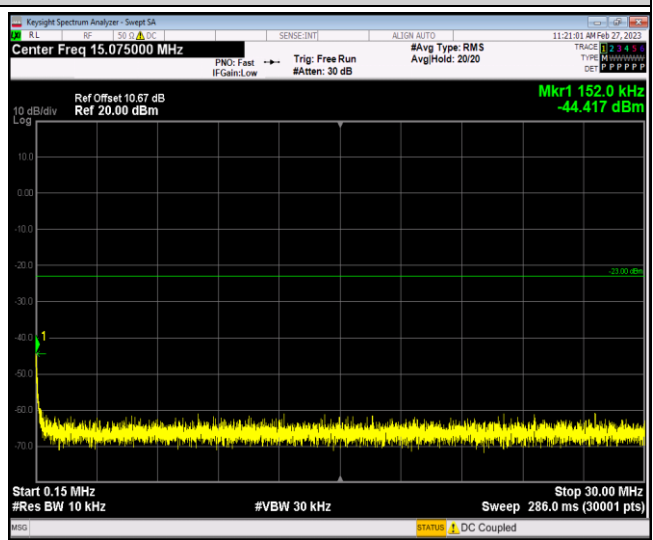
Band4-1413-0.009~0.15MHz



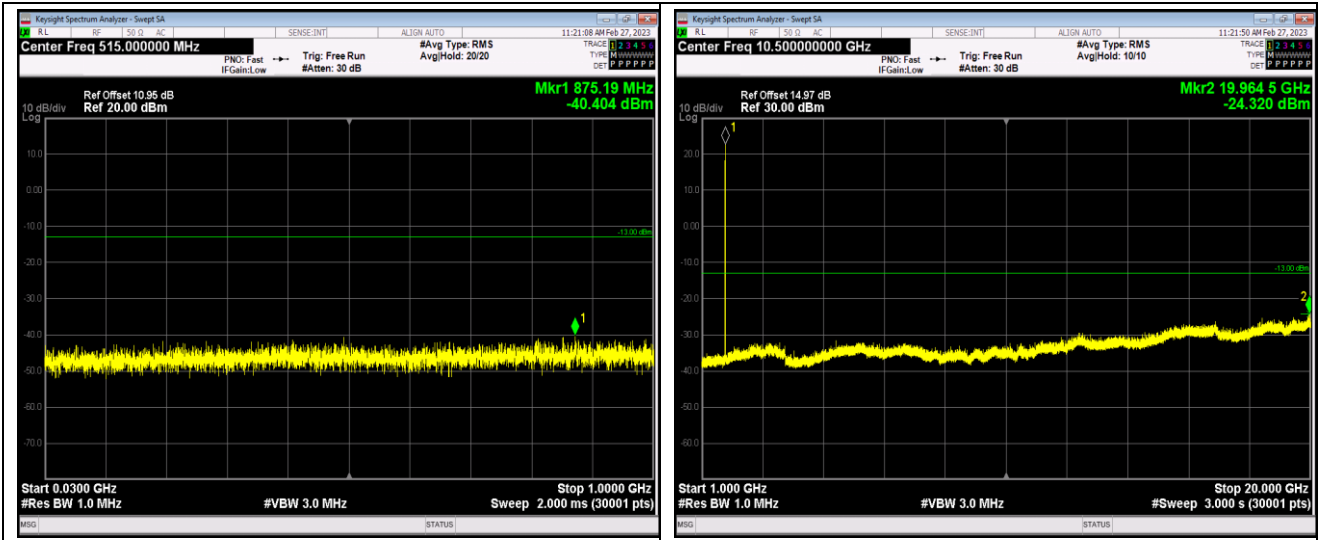
Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz

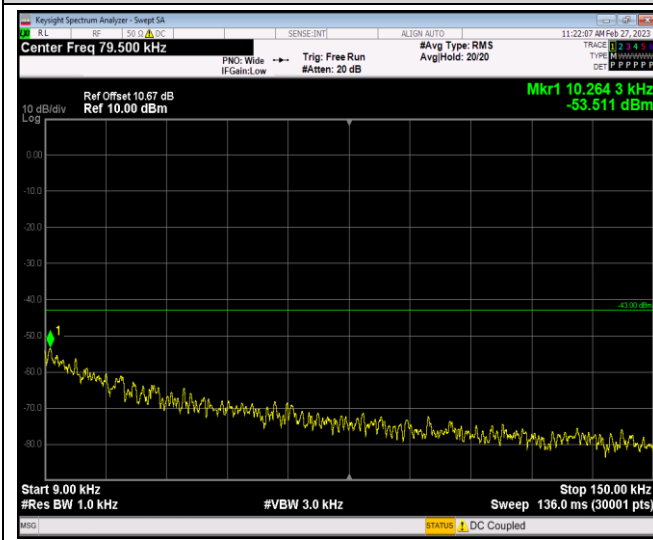


Band4-1413-1000~20000MHz

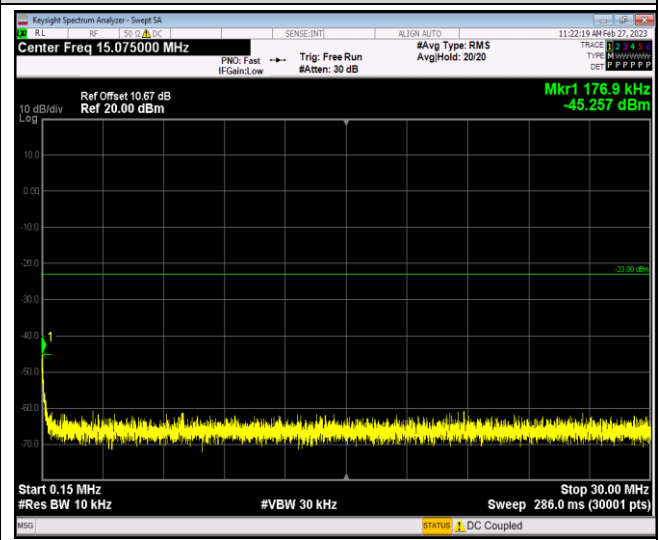


Band4-1513-0.009~0.15MHz

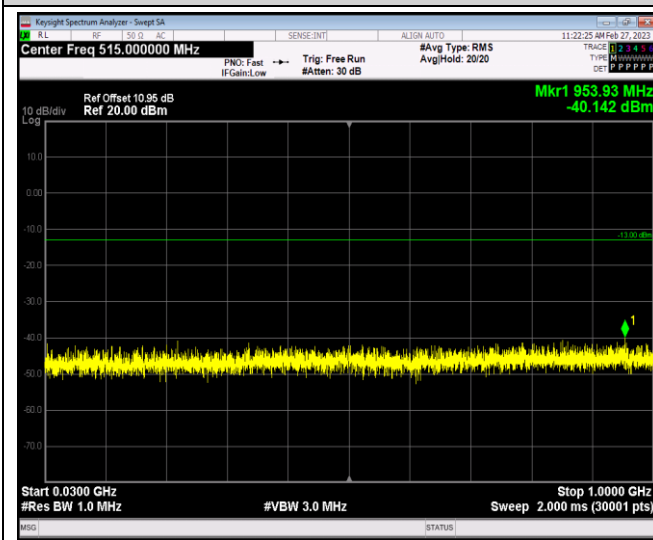
Band4-1513-0.15~30MHz



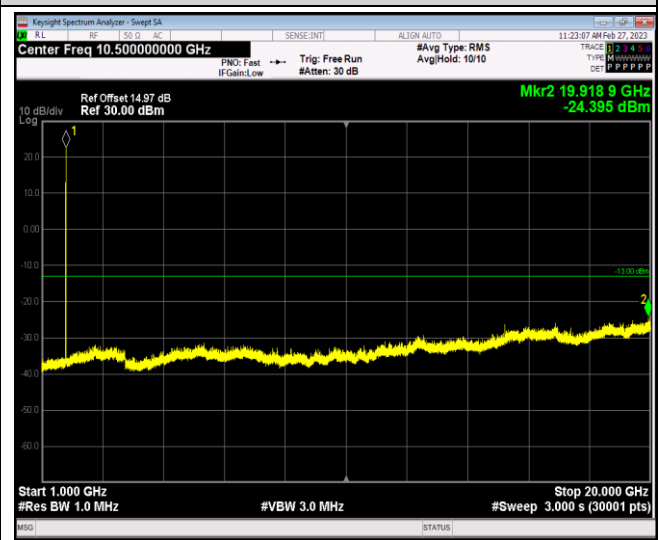
Band4-1513-30~1000MHz



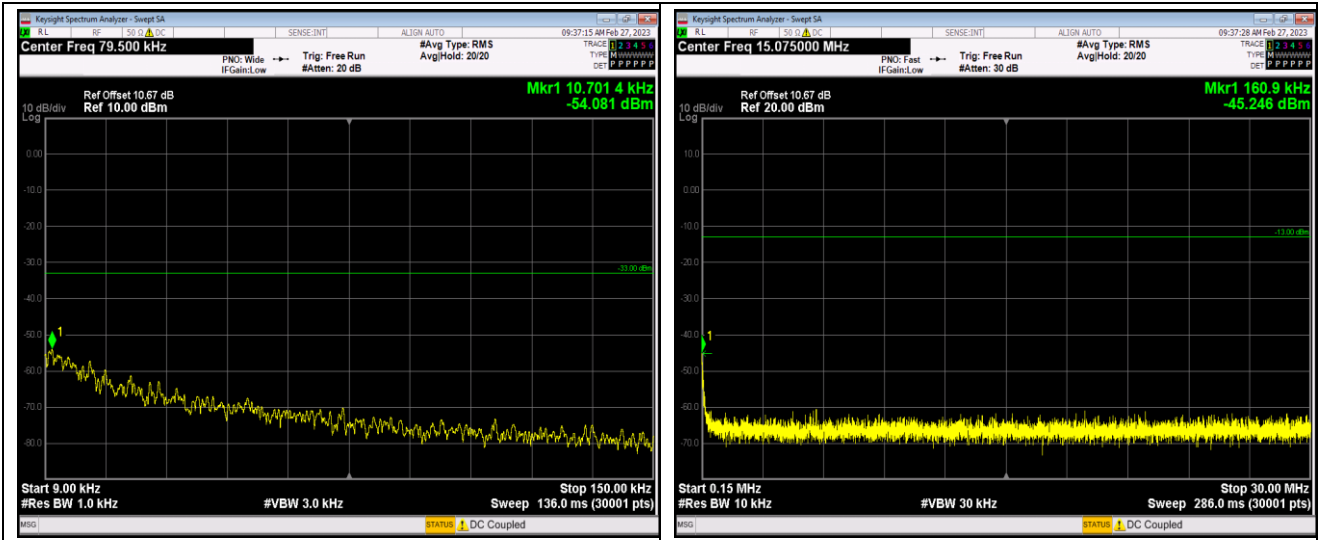
Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

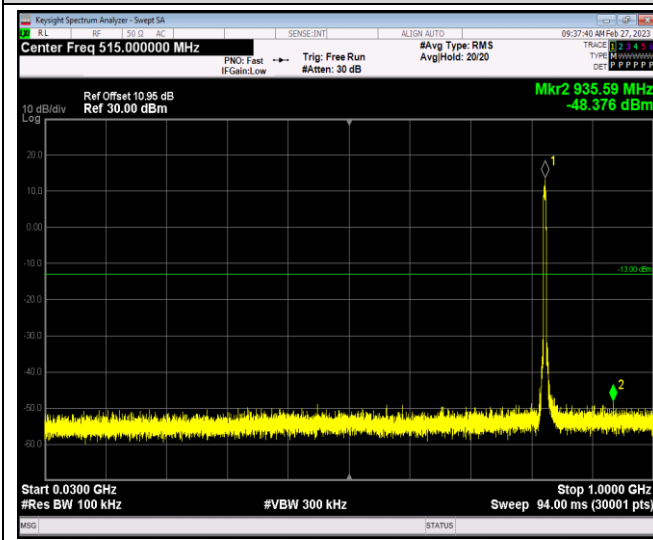


Band5-4132-0.15~30MHz

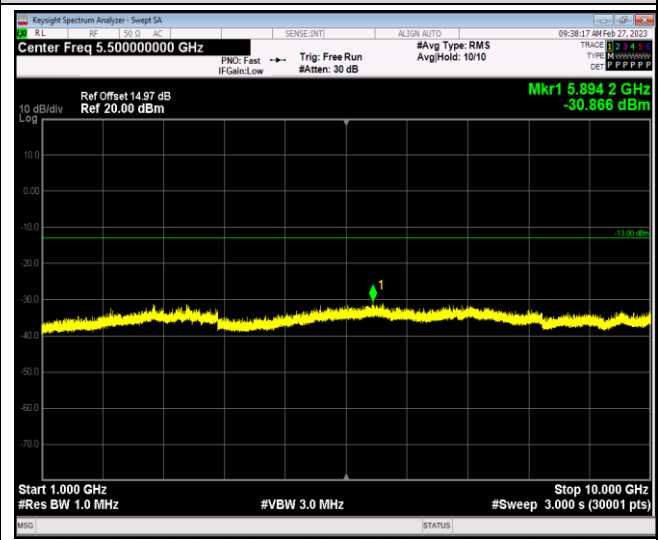


Band5-4132-30~1000MHz

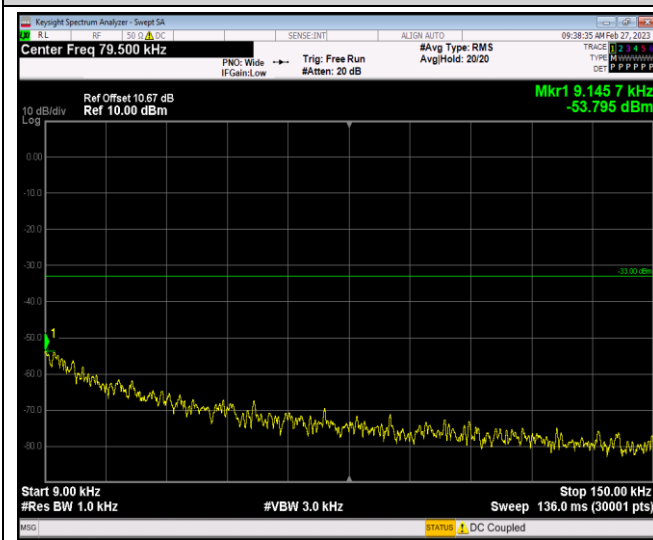
Band5-4132-1000~10000MHz



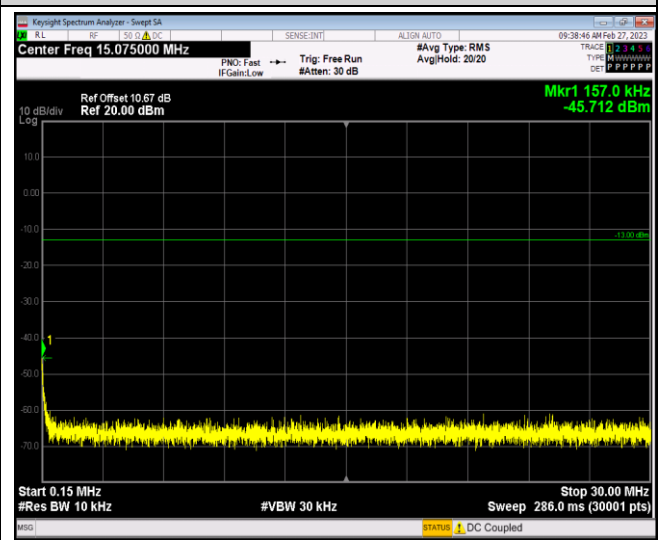
Band5-4183-0.009~0.15MHz



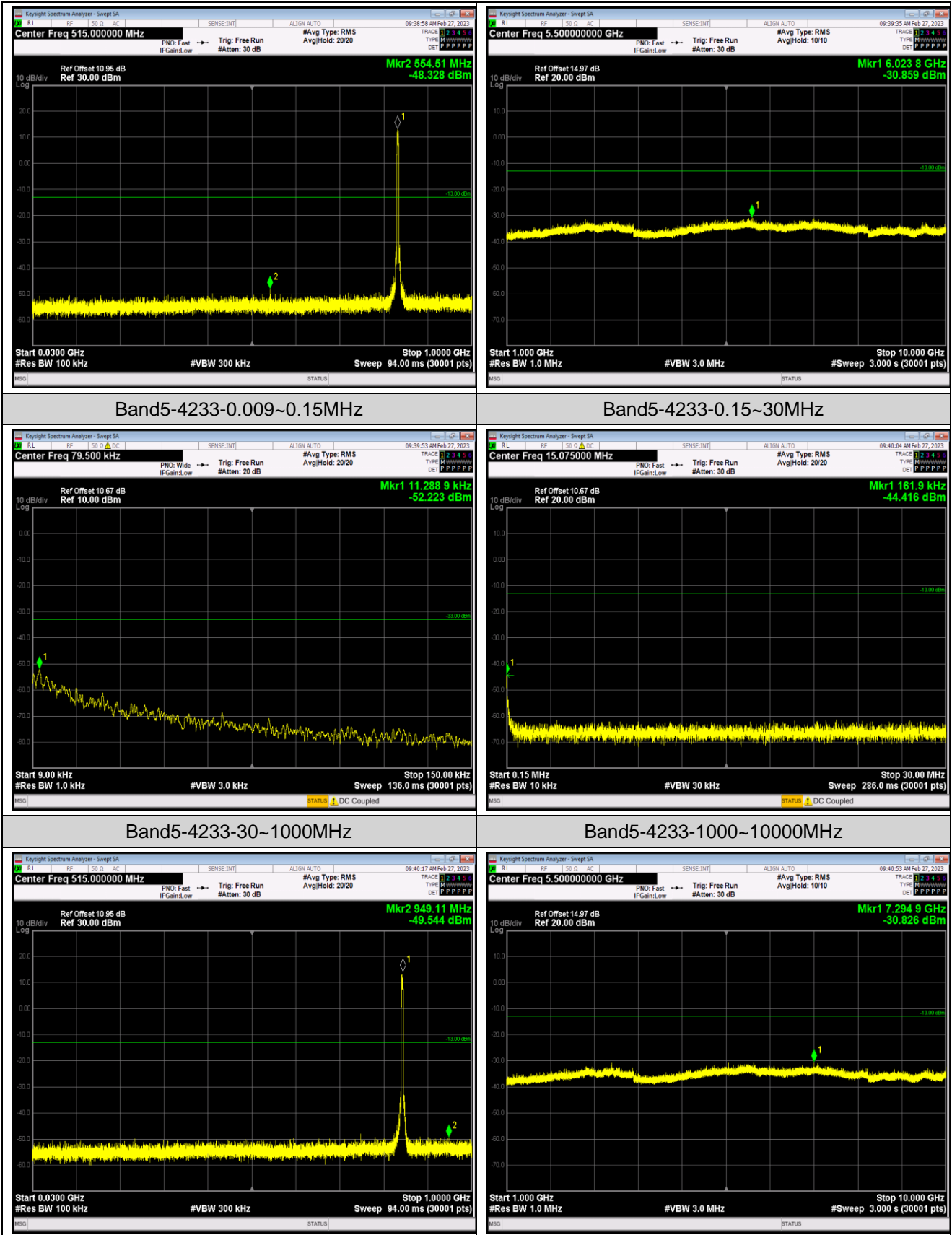
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz



Band5-4183-1000~10000MHz





## 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		
3.70	-30	-1.69	-0.002020	±2.5	Pass
	-20	0.36	0.000430		
	-10	-1.92	-0.002295		
	0	1.09	0.001303		
	10	-0.14	-0.000167		
	20	-1.42	-0.001697		
	30	-0.01	-0.000012		
	40	-1.90	-0.002271		
	50	0.03	0.000036		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.37	0.000442	±2.5	Pass
	3.70	1.43	0.001709		
	4.20	1.34	0.001602		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	-0.60	-0.000346	Within authorized band for BAND IV	Pass
	-20	-1.94	-0.001120		
	-10	-4.03	-0.002326		
	0	-5.65	-0.003261		
	10	-5.69	-0.003284		
	20	4.89	0.002822		
	30	4.71	0.002718		
	40	3.21	0.001853		
	50	-2.16	-0.001247		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.87	0.001079	Within authorized band for BAND IV	Pass
	3.70	-3.59	-0.002072		
	4.20	0.77	0.000444		
<i>Remark: All channel had been tested, but only the worst case data displayed in this 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	6.43	0.003420	Within authorized band for BAND II	Pass
	-20	-3.32	-0.001766		
	-10	7.92	0.004213		
	0	0.53	0.000282		
	10	0.15	0.000080		
	20	4.11	0.002186		
	30	-4.49	-0.002388		
	40	5.91	0.003144		
	50	-2.56	-0.001362		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.77	0.000410	Within authorized band for BAND II	Pass
	3.70	-2.85	-0.001516		
	4.20	1.31	0.000697		
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

