

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	22.40	21.7	33	PASS
Band2	TestMode	9262	22.41	21.71	33	PASS
Band2	TestMode	9400	22.84	22.14	33	PASS
Band2	Voice	9400	22.84	22.14	33	PASS
Band2	TestMode	9538	23.13	22.43	33	PASS
Band2	Voice	9538	23.12	22.42	33	PASS
Band4	Voice	1312	22.88	22.18	30	PASS
Band4	TestMode	1312	22.85	22.15	30	PASS
Band4	Voice	1413	23.08	22.38	30	PASS
Band4	TestMode	1413	23.08	22.38	30	PASS
Band4	TestMode	1513	22.96	22.26	30	PASS
Band4	Voice	1513	22.98	22.28	30	PASS
Band5	Voice	4132	23.83	20.08	38.5	PASS
Band5	TestMode	4132	16.87	13.12	38.5	PASS
Band5	TestMode	4183	23.84	20.99	38.5	PASS
Band5	Voice	4183	23.84	20.99	38.5	PASS
Band5	Voice	4233	23.47	20.62	38.5	PASS
Band5	TestMode	4233	23.48	20.63	38.5	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.36	21.66	33	PASS
Band2	9262	2	22.30	21.6	33	PASS
Band2	9262	3	22.08	21.38	33	PASS
Band2	9262	4	22.09	21.39	33	PASS
Band2	9400	1	22.51	21.81	33	PASS
Band2	9400	2	22.58	21.88	33	PASS
Band2	9400	3	22.37	21.67	33	PASS
Band2	9400	4	22.37	21.67	33	PASS
Band2	9538	1	23.05	22.35	33	PASS
Band2	9538	2	22.63	21.93	33	PASS
Band2	9538	3	22.44	21.74	33	PASS
Band2	9538	4	22.47	21.77	33	PASS

Band4	1312	1	22.93	22.23	30	PASS
Band4	1312	2	22.89	22.19	30	PASS
Band4	1312	3	22.83	22.13	30	PASS
Band4	1312	4	22.89	22.19	30	PASS
Band4	1413	1	23.15	22.45	30	PASS
Band4	1413	2	23.15	22.45	30	PASS
Band4	1413	3	23.11	22.41	30	PASS
Band4	1413	4	23.10	22.4	30	PASS
Band4	1513	1	22.76	22.06	30	PASS
Band4	1513	2	22.73	22.03	30	PASS
Band4	1513	3	22.65	21.95	30	PASS
Band4	1513	4	22.70	22	30	PASS
Band5	4132	1	23.16	19.41	38.5	PASS
Band5	4132	2	23.15	19.4	38.5	PASS
Band5	4132	3	22.58	18.83	38.5	PASS
Band5	4132	4	22.60	18.85	38.5	PASS
Band5	4183	1	23.16	20.31	38.5	PASS
Band5	4183	2	23.21	20.36	38.5	PASS
Band5	4183	3	22.47	19.62	38.5	PASS
Band5	4183	4	22.46	19.61	38.5	PASS
Band5	4233	1	22.90	20.05	38.5	PASS
Band5	4233	2	23.09	20.24	38.5	PASS
Band5	4233	3	22.48	19.63	38.5	PASS
Band5	4233	4	22.46	19.61	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.18	19.48	33	PASS
Band2	9262	2	20.56	19.86	33	PASS
Band2	9262	3	20.06	19.36	33	PASS
Band2	9262	4	20.35	19.65	33	PASS
Band2	9262	5	22.56	21.86	33	PASS
Band2	9400	1	20.90	20.2	33	PASS
Band2	9400	2	21.25	20.55	33	PASS
Band2	9400	3	21.27	20.57	33	PASS
Band2	9400	4	21.01	20.31	33	PASS
Band2	9400	5	22.91	22.21	33	PASS
Band2	9538	1	20.99	20.29	33	PASS
Band2	9538	2	21.33	20.63	33	PASS
Band2	9538	3	21.32	20.62	33	PASS

Band2	9538	4	21.12	20.42	33	PASS
Band2	9538	5	22.93	22.23	33	PASS
Band4	1312	1	22.51	21.81	30	PASS
Band4	1312	2	22.57	21.87	30	PASS
Band4	1312	3	22.10	21.4	30	PASS
Band4	1312	4	22.37	21.67	30	PASS
Band4	1312	5	22.96	22.26	30	PASS
Band4	1413	1	23.06	22.36	30	PASS
Band4	1413	2	23.07	22.37	30	PASS
Band4	1413	3	23.09	22.39	30	PASS
Band4	1413	4	22.85	22.15	30	PASS
Band4	1413	5	23.16	22.46	30	PASS
Band4	1513	1	22.63	21.93	30	PASS
Band4	1513	2	22.62	21.92	30	PASS
Band4	1513	3	22.67	21.97	30	PASS
Band4	1513	4	22.40	21.7	30	PASS
Band4	1513	5	22.77	22.07	30	PASS
Band5	4132	1	21.32	17.57	38.5	PASS
Band5	4132	2	21.90	18.15	38.5	PASS
Band5	4132	3	21.46	17.71	38.5	PASS
Band5	4132	4	21.24	17.49	38.5	PASS
Band5	4132	5	23.61	19.86	38.5	PASS
Band5	4183	1	21.62	18.77	38.5	PASS
Band5	4183	2	21.91	19.06	38.5	PASS
Band5	4183	3	21.95	19.1	38.5	PASS
Band5	4183	4	21.45	18.6	38.5	PASS
Band5	4183	5	23.59	20.74	38.5	PASS
Band5	4233	1	21.82	18.97	38.5	PASS
Band5	4233	2	21.99	19.14	38.5	PASS
Band5	4233	3	21.18	18.33	38.5	PASS
Band5	4233	4	21.29	18.44	38.5	PASS
Band5	4233	5	23.54	20.69	38.5	PASS

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (For Band2)
 $ERP (dBm) = EIRP (dBm) - 2.15 (dB)$. (For Band5)

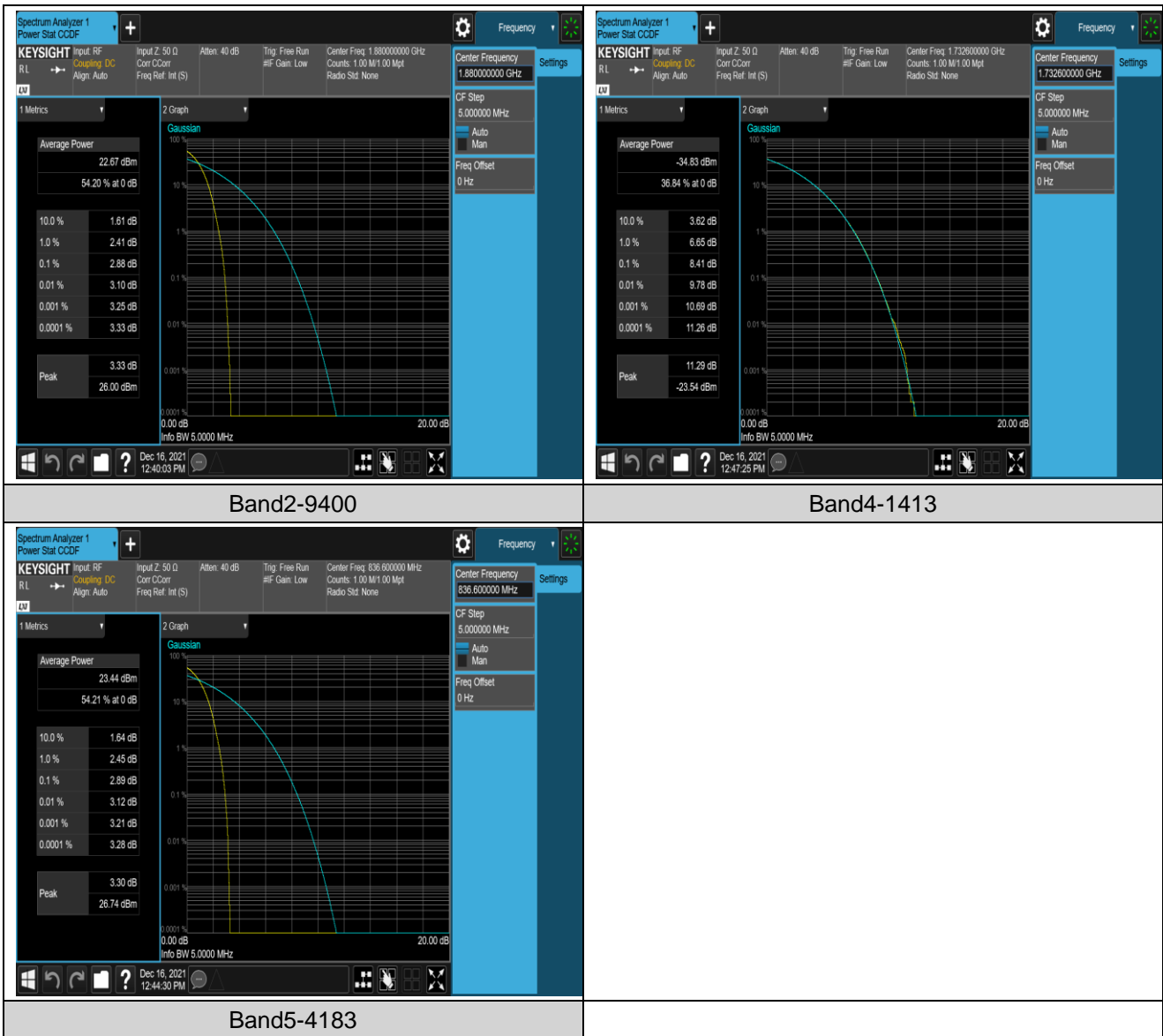
Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.88	13	PASS
Band4	1413	8.41	13	PASS
Band5	4183	2.89	13	PASS

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

Test Graphs(WCDMA)

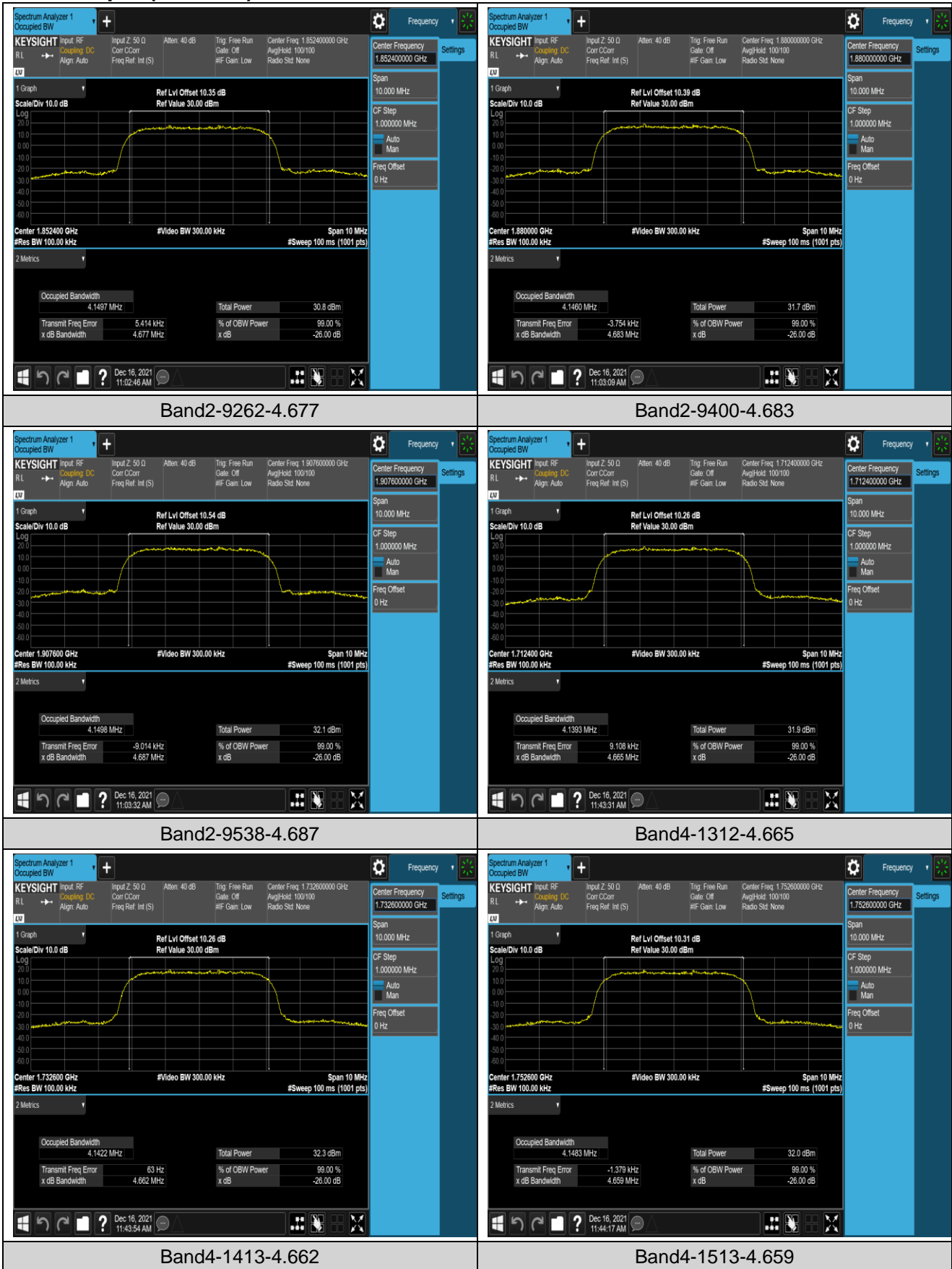


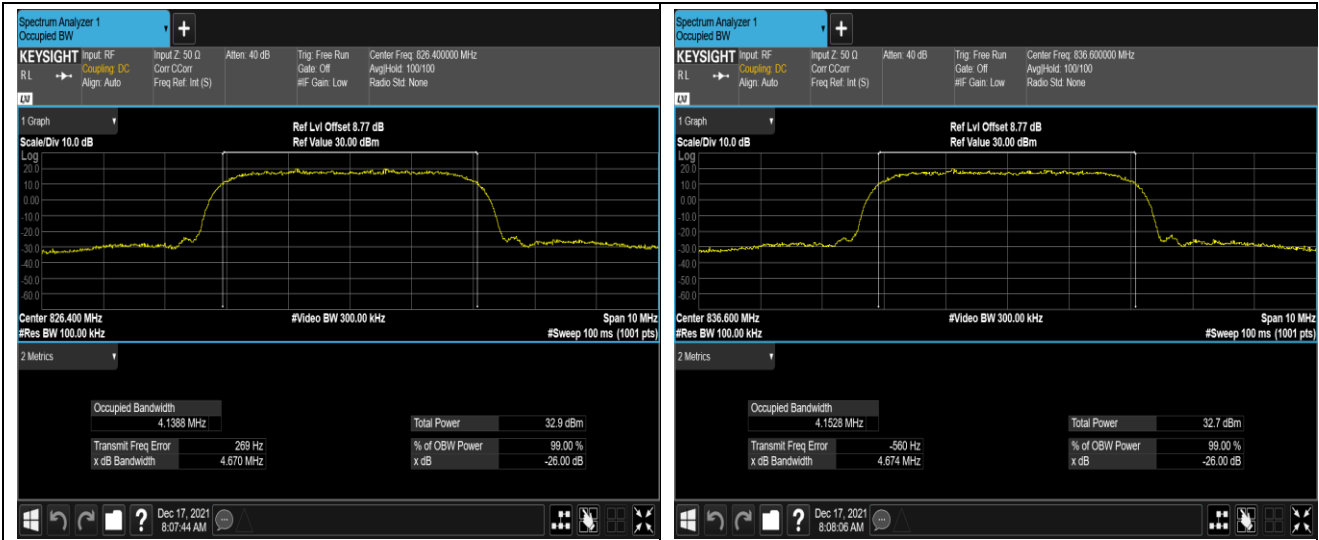
AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1497	4.677	---	PASS
Band2	9400	4.1460	4.683	---	PASS
Band2	9538	4.1498	4.687	---	PASS
Band4	1312	4.1393	4.665	---	PASS
Band4	1413	4.1422	4.662	---	PASS
Band4	1513	4.1483	4.659	---	PASS
Band5	4132	4.1388	4.670	---	PASS
Band5	4183	4.1528	4.674	---	PASS
Band5	4233	4.1407	4.657	---	PASS

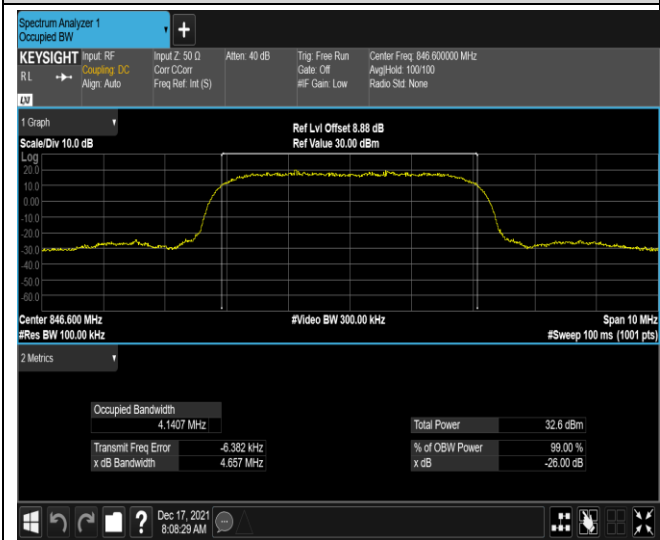
Test Graphs(WCDMA)





Band5-4132-10.00

Band5-4183-10.00

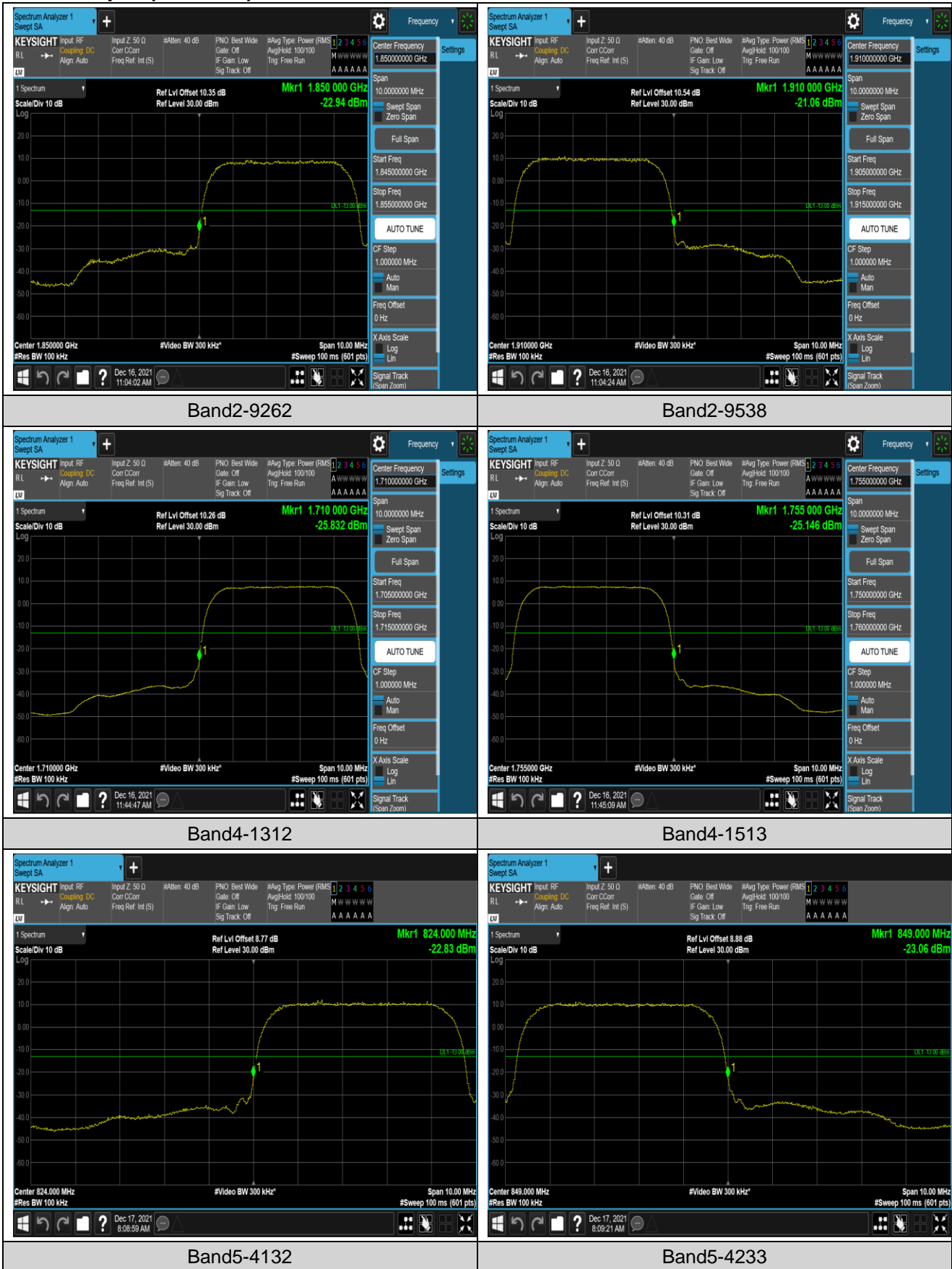


Band5-4233-10.00

AppendixD:Band Edge**Test Result(WCDMA)**

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.94	-13	PASS
Band2	9538	1910.00	-21.06	-13	PASS
Band4	1312	1710.00	-25.83	-13	PASS
Band4	1513	1755.00	-25.15	-13	PASS
Band5	4132	824.00	-22.83	-13	PASS
Band5	4233	849.00	-23.06	-13	PASS

Test Graphs(WCDMA)

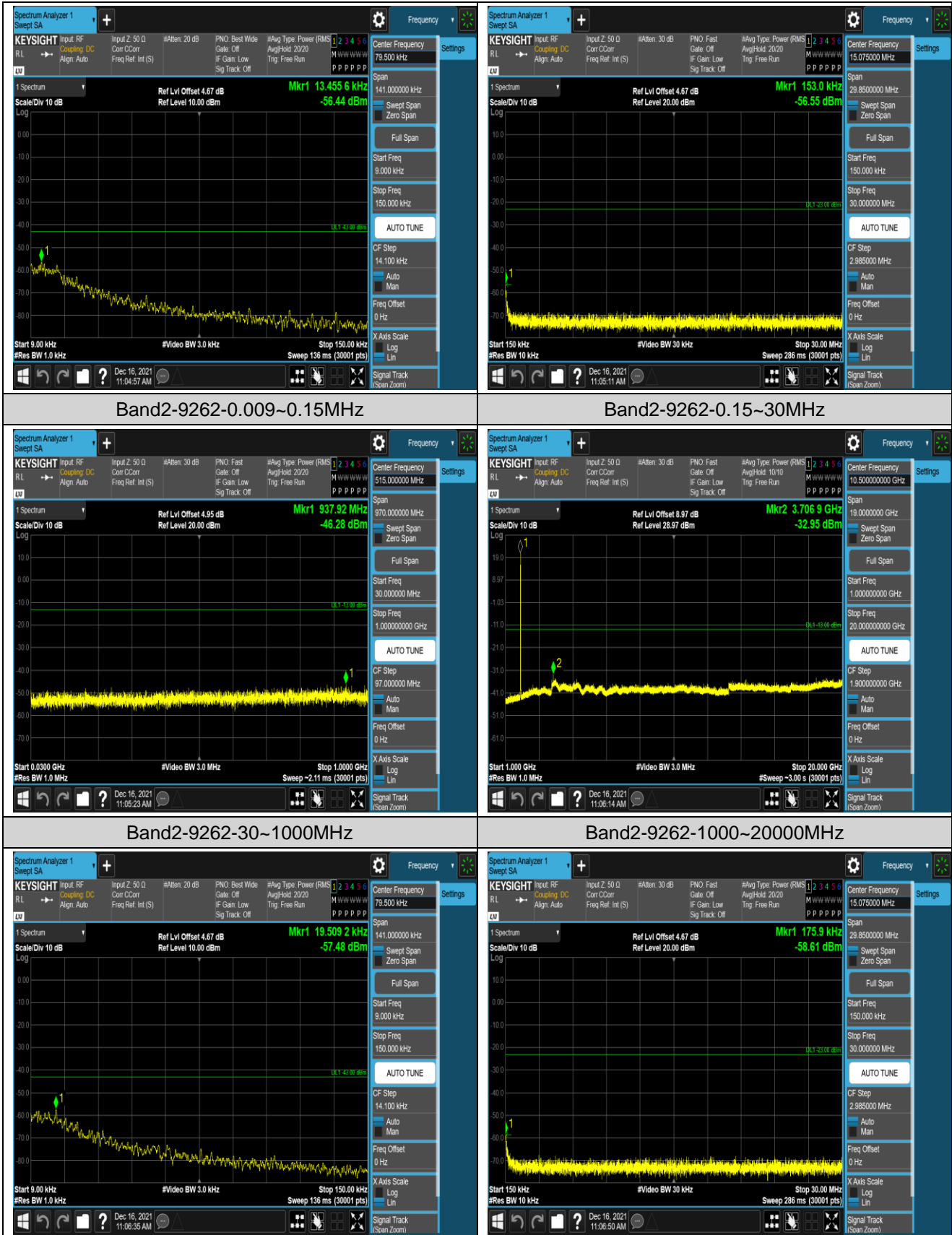


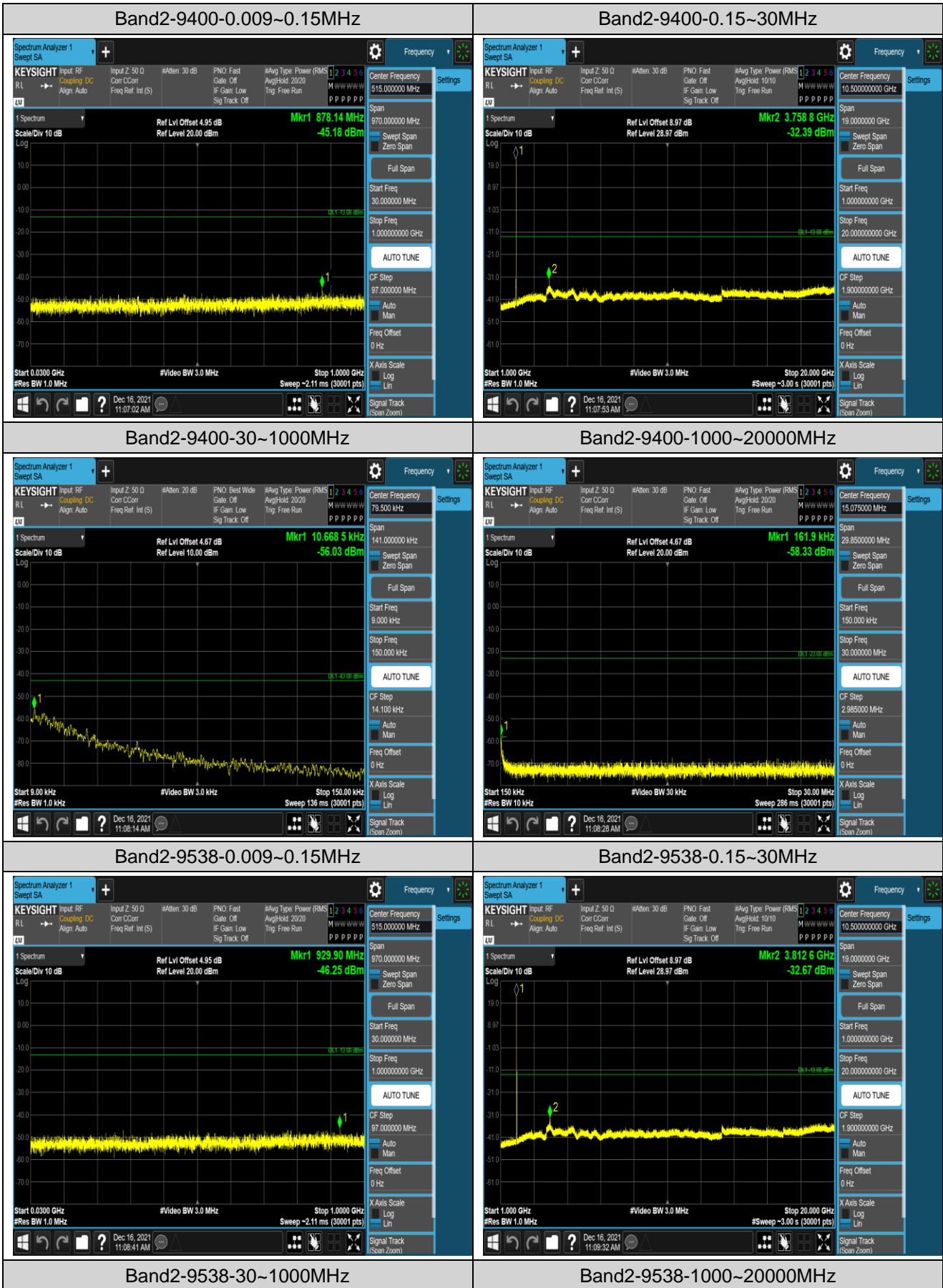
AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-56.45	-43	PASS
Band2	9262	0.15~30MHz	0.15	-56.55	-23	PASS
Band2	9262	30~1000MHz	937.92	-46.29	-13	PASS
Band2	9262	1000~20000MHz	3706.87	-32.95	-13	PASS
Band2	9400	0.009~0.15MHz	0.02	-57.48	-43	PASS
Band2	9400	0.15~30MHz	0.18	-58.61	-23	PASS
Band2	9400	30~1000MHz	878.14	-45.18	-13	PASS
Band2	9400	1000~20000MHz	3758.8	-32.39	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.04	-43	PASS
Band2	9538	0.15~30MHz	0.16	-58.33	-23	PASS
Band2	9538	30~1000MHz	929.9	-46.25	-13	PASS
Band2	9538	1000~20000MHz	3812.63	-32.67	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.56	-43	PASS
Band4	1312	0.15~30MHz	0.15	-55.76	-23	PASS
Band4	1312	30~1000MHz	913.38	-46.75	-13	PASS
Band4	1312	1000~20000MHz	3803.77	-34.31	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-55.62	-43	PASS
Band4	1413	0.15~30MHz	0.15	-57.22	-23	PASS
Band4	1413	30~1000MHz	999.87	-46.68	-13	PASS
Band4	1413	1000~20000MHz	19015.8	-34.66	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-56.99	-43	PASS
Band4	1513	0.15~30MHz	0.16	-54.36	-23	PASS
Band4	1513	30~1000MHz	797.85	-45.5	-13	PASS
Band4	1513	1000~20000MHz	19329.3	-34.75	-13	PASS
Band5	4132	0.009~0.15MHz	0.02	-57.45	-33	PASS
Band5	4132	0.15~30MHz	0.15	-57.28	-13	PASS
Band5	4132	30~1000MHz	718.89	-55.52	-13	PASS
Band5	4132	1000~10000MHz	3759.7	-34.56	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-54.74	-33	PASS
Band5	4183	0.15~30MHz	0.15	-57.72	-13	PASS
Band5	4183	30~1000MHz	160.17	-56.05	-13	PASS
Band5	4183	1000~10000MHz	3781.6	-34.12	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.01	-33	PASS
Band5	4233	0.15~30MHz	0.15	-56.55	-13	PASS
Band5	4233	30~1000MHz	999.26	-55.32	-13	PASS
Band5	4233	1000~10000MHz	3717.1	-34.12	-13	PASS

Test Graphs(WCDMA)







Band4-1312-0.009~0.15MHz

Band4-1312-0.15~30MHz



Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz



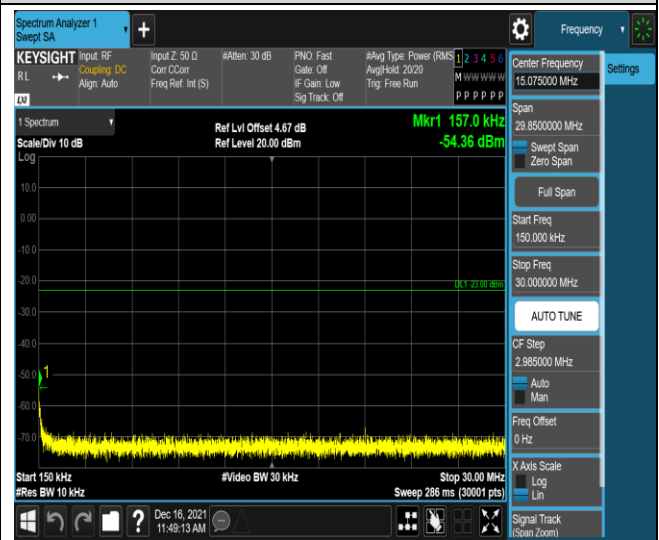
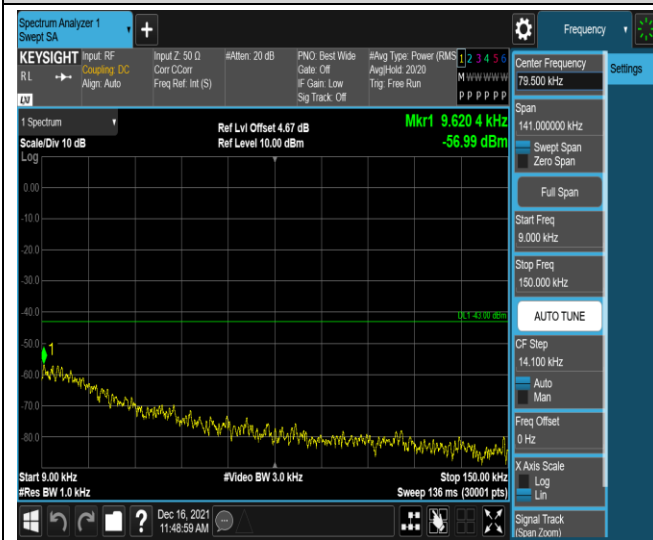
Band4-1413-0.009~0.15MHz

Band4-1413-0.15~30MHz



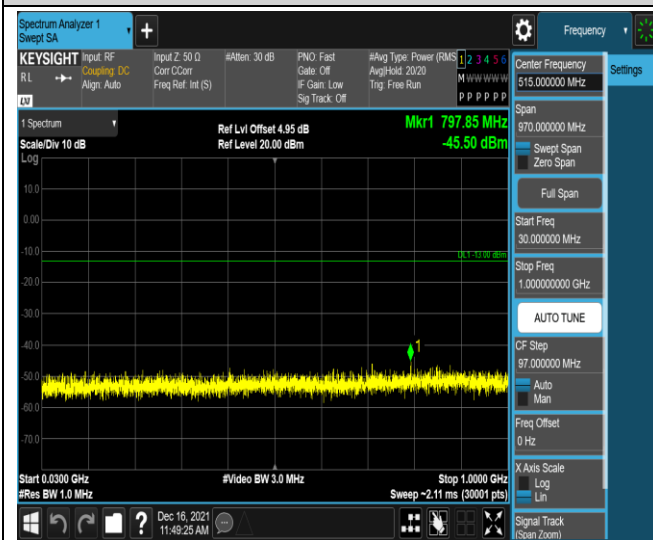
Band4-1413-30~1000MHz

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



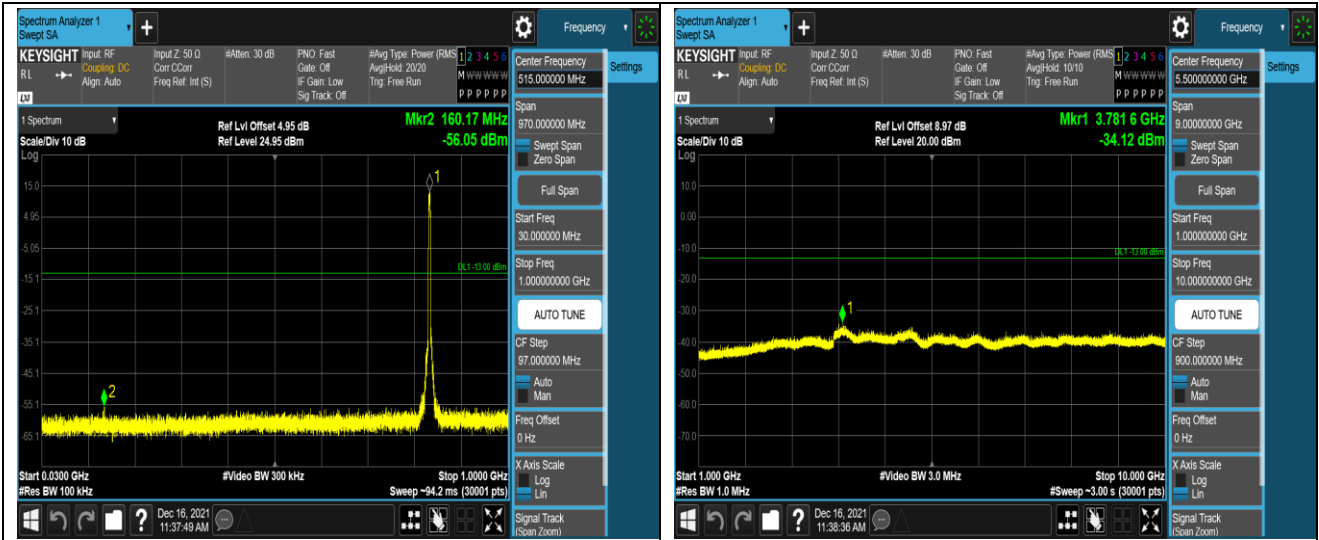
Band5-4132-30~1000MHz

Band5-4132-1000~10000MHz



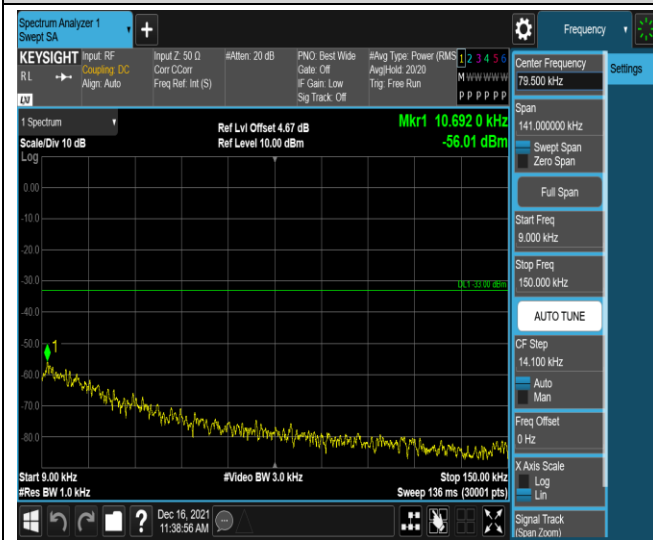
Band5-4183-0.009~0.15MHz

Band5-4183-0.15~30MHz

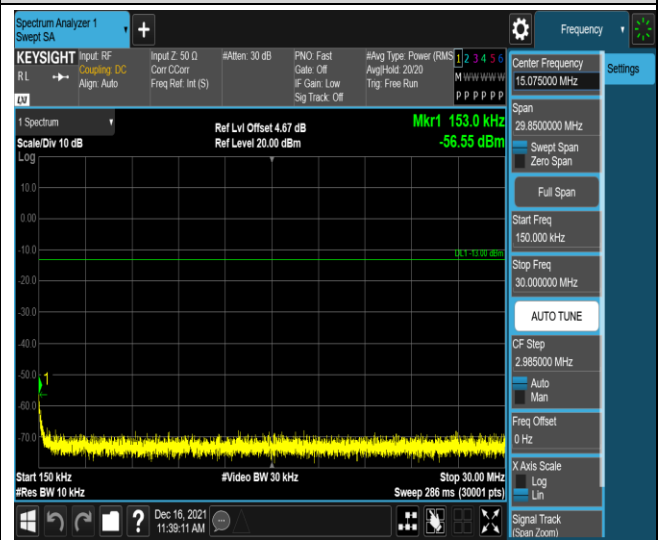


Band5-4183-30~1000MHz

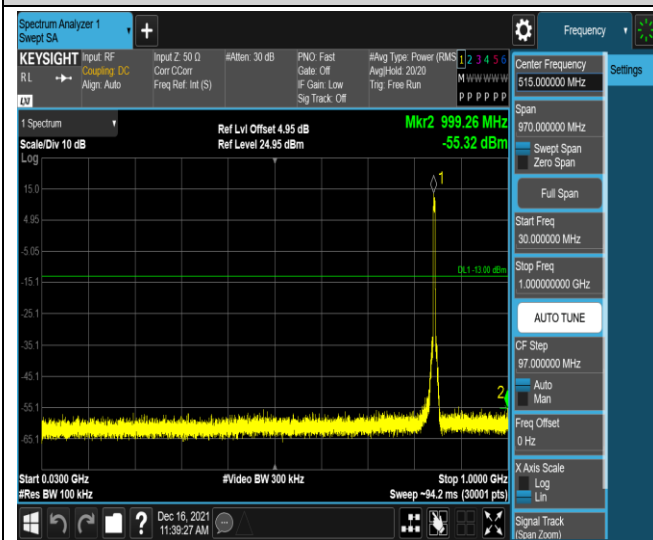
Band5-4183-1000~10000MHz



Band5-4233-0.009~0.15MHz



Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz

Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9400	VL	NT	-1.42	-0.000755	±2.5	PASS
Band2	9400	VN	NT	-3.38	-0.001798	±2.5	PASS
Band2	9400	VH	NT	3.65	0.001941	±2.5	PASS
Band4	1413	VL	NT	7.46	0.004306	±2.5	PASS
Band4	1413	VN	NT	12.95	0.007474	±2.5	PASS
Band4	1413	VH	NT	-1.82	-0.001050	±2.5	PASS
Band5	4183	VL	NT	-0.77	-0.000920	±2.5	PASS
Band5	4183	VN	NT	1.92	0.002295	±2.5	PASS
Band5	4183	VH	NT	0.45	0.000538	±2.5	PASS

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		
3.85	-30	-30	0.70	±2.5	Pass
	-20	-20	-0.35		
	-10	-10	2.84		
	0	0	1.12		
	10	10	-2.00		
	20	20	1.19		
	30	30	-1.14		
	40	40	-1.01		
	50	50	-2.60		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.77	-0.000920	±2.5	Pass
	3.85	1.92	0.002295		
	4.40	0.45	0.000538		

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		
3.85	-30	-30	4.71	Within authorized band for BAND IV	Pass
	-20	-20	1.64		
	-10	-10	-2.91		
	0	0	2.98		
	10	10	1.19		
	20	20	1.78		
	30	30	-4.66		
	40	40	-1.05		
	50	50	-2.87		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	7.46	0.004306	Within authorized band for BAND IV	Pass
	3.85	12.95	0.007474		
	4.40	-1.82	-0.001050		
<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		
3.85	-30	-30	7.95	Within authorized band for BAND II	Pass
	-20	-20	-2.27		
	-10	-10	2.30		
	0	0	-8.35		
	10	10	6.57		
	20	20	11.65		
	30	30	-2.21		
	40	40	3.12		
	50	50	2.18		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-1.42	-0.000755	Within authorized band for BAND II	Pass
	3.85	-3.38	-0.001798		
	4.40	3.65	0.001941		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

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

