

AppendixA: 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	23.41	22.31	33	PASS
Band2	RMC	9262	23.49	22.39	33	PASS
Band2	Voice	9400	23.34	22.24	33	PASS
Band2	RMC	9400	23.47	22.37	33	PASS
Band2	Voice	9538	23.19	22.09	33	PASS
Band2	RMC	9538	23.33	22.23	33	PASS
Band4	Voice	1312	22.97	21.87	30	PASS
Band4	RMC	1312	23.03	21.93	30	PASS
Band4	Voice	1413	23.04	21.94	30	PASS
Band4	RMC	1413	23.21	22.11	30	PASS
Band4	Voice	1513	23.11	22.01	30	PASS
Band4	RMC	1513	23.16	22.06	30	PASS
Band5	Voice	4132	23.60	20.35	38.5	PASS
Band5	RMC	4132	23.64	20.39	38.5	PASS
Band5	Voice	4183	23.63	20.38	38.5	PASS
Band5	RMC	4183	23.73	20.48	38.5	PASS
Band5	Voice	4233	23.72	20.47	38.5	PASS
Band5	RMC	4233	23.84	20.59	38.5	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.53	21.43	33	PASS
Band2	9262	2	22.15	21.05	33	PASS
Band2	9262	3	21.98	20.88	33	PASS
Band2	9262	4	21.95	20.85	33	PASS
Band2	9400	1	22.53	21.43	33	PASS
Band2	9400	2	22.01	20.91	33	PASS
Band2	9400	3	21.97	20.87	33	PASS
Band2	9400	4	21.93	20.83	33	PASS
Band2	9538	1	22.36	21.26	33	PASS
Band2	9538	2	21.85	20.75	33	PASS
Band2	9538	3	21.76	20.66	33	PASS
Band2	9538	4	21.85	20.75	33	PASS
Band4	1312	1	22.08	20.98	30	PASS
Band4	1312	2	21.69	20.59	30	PASS

Band4	1312	3	21.58	20.48	30	PASS
Band4	1312	4	21.54	20.44	30	PASS
Band4	1413	1	22.23	21.13	30	PASS
Band4	1413	2	21.79	20.69	30	PASS
Band4	1413	3	21.73	20.63	30	PASS
Band4	1413	4	21.67	20.57	30	PASS
Band4	1513	1	22.15	21.05	30	PASS
Band4	1513	2	21.73	20.63	30	PASS
Band4	1513	3	21.66	20.56	30	PASS
Band4	1513	4	21.62	20.52	30	PASS
Band5	4132	1	22.62	19.37	38.5	PASS
Band5	4132	2	22.21	18.96	38.5	PASS
Band5	4132	3	22.14	18.89	38.5	PASS
Band5	4132	4	22.06	18.81	38.5	PASS
Band5	4183	1	22.69	19.44	38.5	PASS
Band5	4183	2	22.21	18.96	38.5	PASS
Band5	4183	3	22.16	18.91	38.5	PASS
Band5	4183	4	22.12	18.87	38.5	PASS
Band5	4233	1	22.81	19.56	38.5	PASS
Band5	4233	2	22.31	19.06	38.5	PASS
Band5	4233	3	22.26	19.01	38.5	PASS
Band5	4233	4	22.24	18.99	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.48	19.38	33	PASS
Band2	9262	2	21.01	19.91	33	PASS
Band2	9262	3	21.52	20.42	33	PASS
Band2	9262	4	20.52	19.42	33	PASS
Band2	9262	5	22.51	21.41	33	PASS
Band2	9400	1	20.48	19.38	33	PASS
Band2	9400	2	20.99	19.89	33	PASS
Band2	9400	3	21.50	20.40	33	PASS
Band2	9400	4	20.49	19.39	33	PASS
Band2	9400	5	22.48	21.38	33	PASS
Band2	9538	1	20.28	19.18	33	PASS
Band2	9538	2	20.82	19.72	33	PASS
Band2	9538	3	21.31	20.21	33	PASS
Band2	9538	4	20.33	19.23	33	PASS
Band2	9538	5	22.31	21.21	33	PASS
Band4	1312	1	20.09	18.99	30	PASS

Band4	1312	2	20.57	19.47	30	PASS
Band4	1312	3	21.08	19.98	30	PASS
Band4	1312	4	20.10	19.00	30	PASS
Band4	1312	5	22.09	20.99	30	PASS
Band4	1413	1	20.23	19.13	30	PASS
Band4	1413	2	20.73	19.63	30	PASS
Band4	1413	3	21.22	20.12	30	PASS
Band4	1413	4	20.24	19.14	30	PASS
Band4	1413	5	22.24	21.14	30	PASS
Band4	1513	1	20.15	19.05	30	PASS
Band4	1513	2	20.69	19.59	30	PASS
Band4	1513	3	21.19	20.09	30	PASS
Band4	1513	4	20.20	19.10	30	PASS
Band4	1513	5	22.18	21.08	30	PASS
Band5	4132	1	20.65	17.40	38.5	PASS
Band5	4132	2	21.15	17.90	38.5	PASS
Band5	4132	3	21.68	18.43	38.5	PASS
Band5	4132	4	20.69	17.44	38.5	PASS
Band5	4132	5	22.67	19.42	38.5	PASS
Band5	4183	1	20.70	17.45	38.5	PASS
Band5	4183	2	21.22	17.97	38.5	PASS
Band5	4183	3	21.71	18.46	38.5	PASS
Band5	4183	4	20.75	17.5	38.5	PASS
Band5	4183	5	22.71	19.46	38.5	PASS
Band5	4233	1	20.79	17.54	38.5	PASS
Band5	4233	2	21.29	18.04	38.5	PASS
Band5	4233	3	21.80	18.55	38.5	PASS
Band5	4233	4	20.84	17.59	38.5	PASS
Band5	4233	5	22.81	19.56	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2 & 4)

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

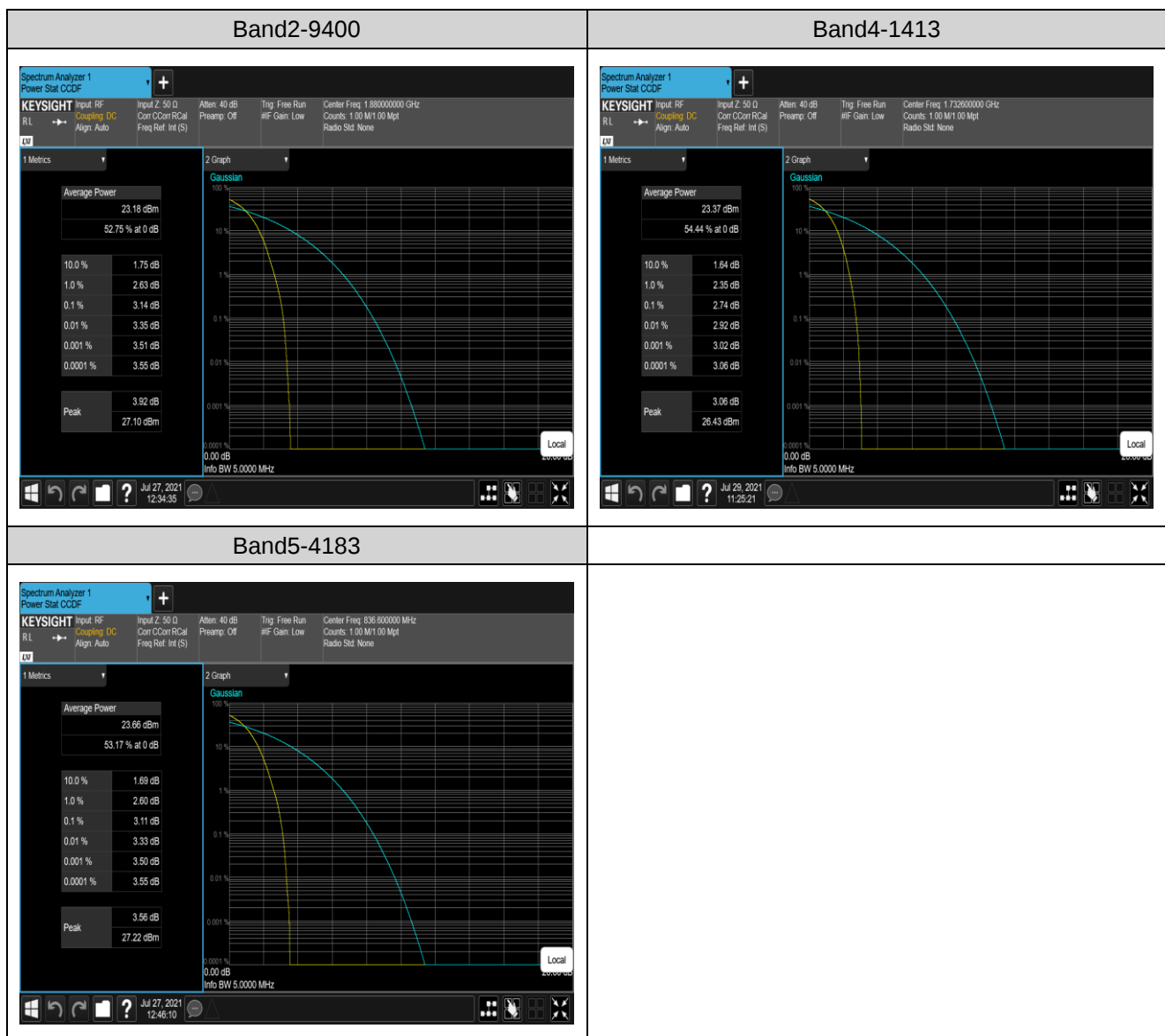
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.14	13	PASS
Band4	1413	2.74	13	PASS
Band5	4183	3.11	13	PASS

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

Test Graphs(WCDMA)



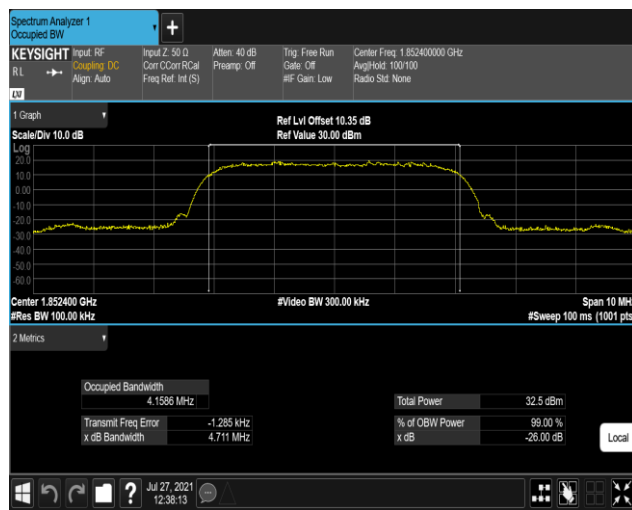
AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

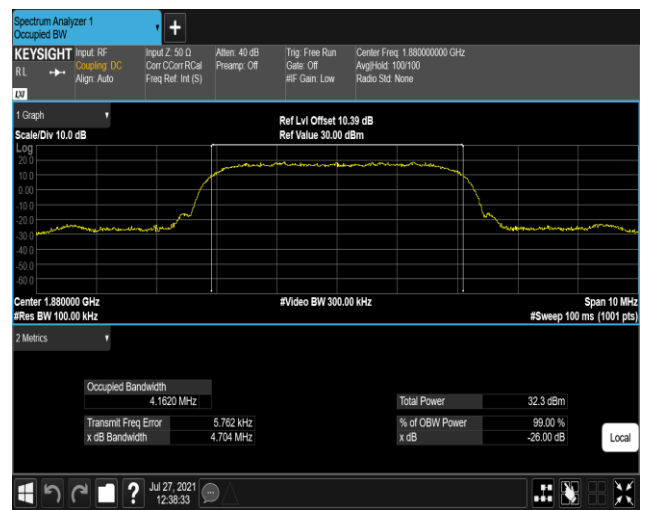
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1586	4.711	---	PASS
Band2	9400	4.1620	4.704	---	PASS
Band2	9538	4.1591	4.719	---	PASS
Band4	1312	4.1550	4.701	---	PASS
Band4	1413	4.1561	4.710	---	PASS
Band4	1513	4.1655	4.700	---	PASS
Band5	4132	4.1680	4.701	---	PASS
Band5	4183	4.1557	4.695	---	PASS
Band5	4233	4.1565	4.700	---	PASS

Test Graphs(WCDMA)

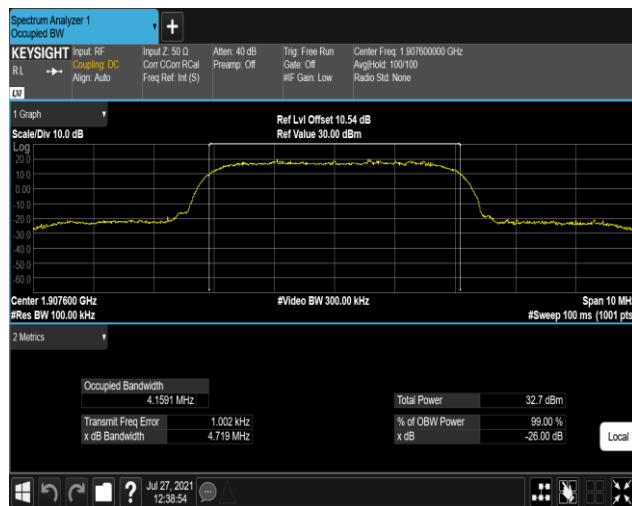
Band2-9262-4.711



Band2-9400-4.704



Band2-9538-4.719



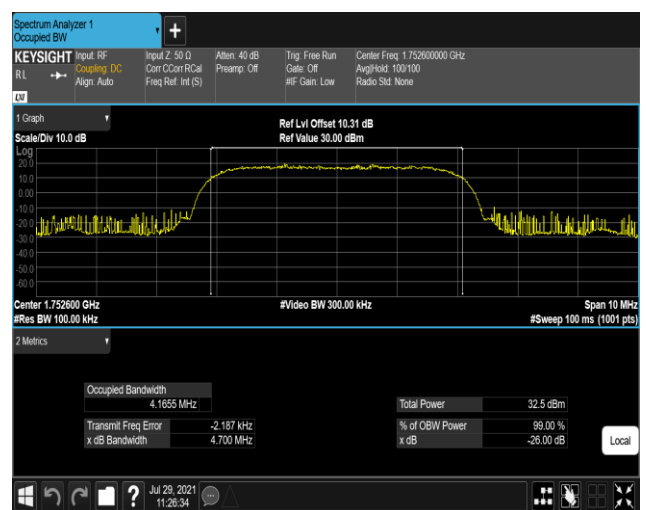
Band4-1312-4.701



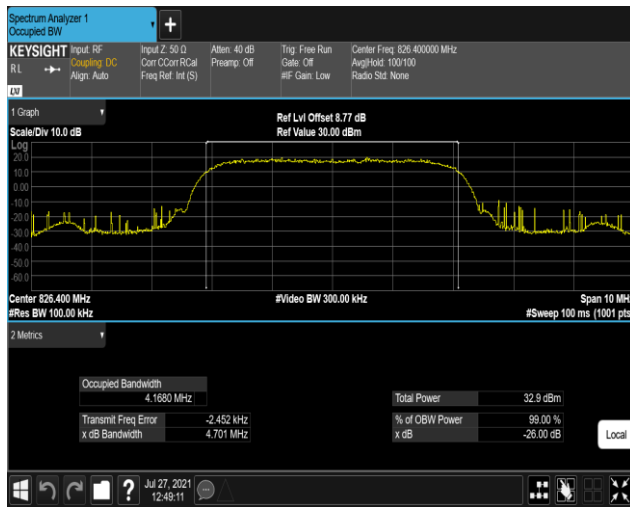
Band4-1413-4.710



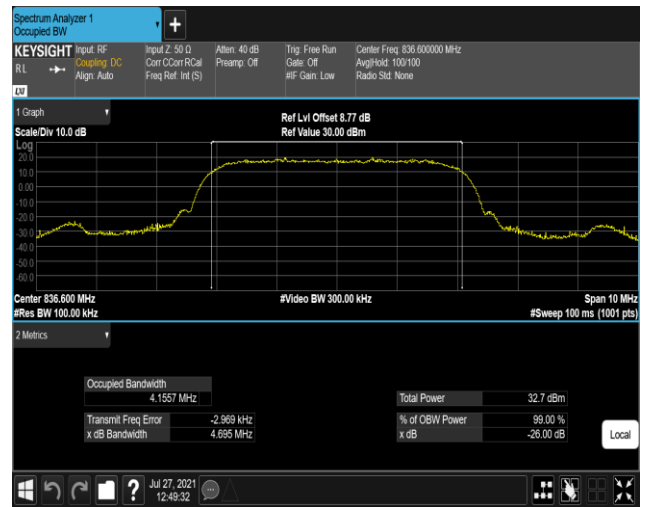
Band4-1513-4.700



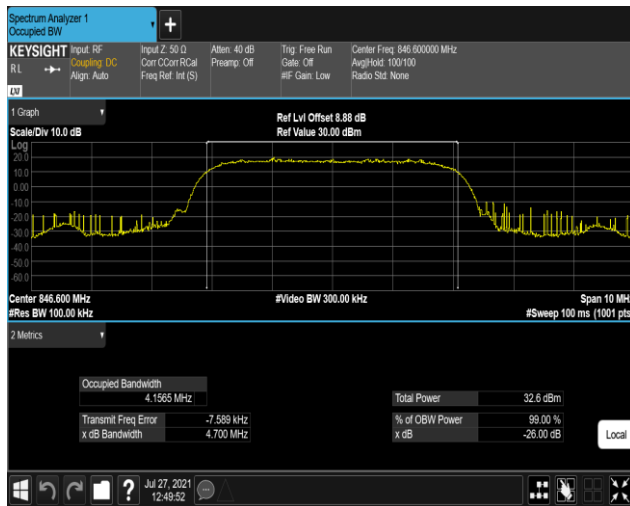
Band5-4132-4.701



Band5-4183-4.695



Band5-4233-4.700

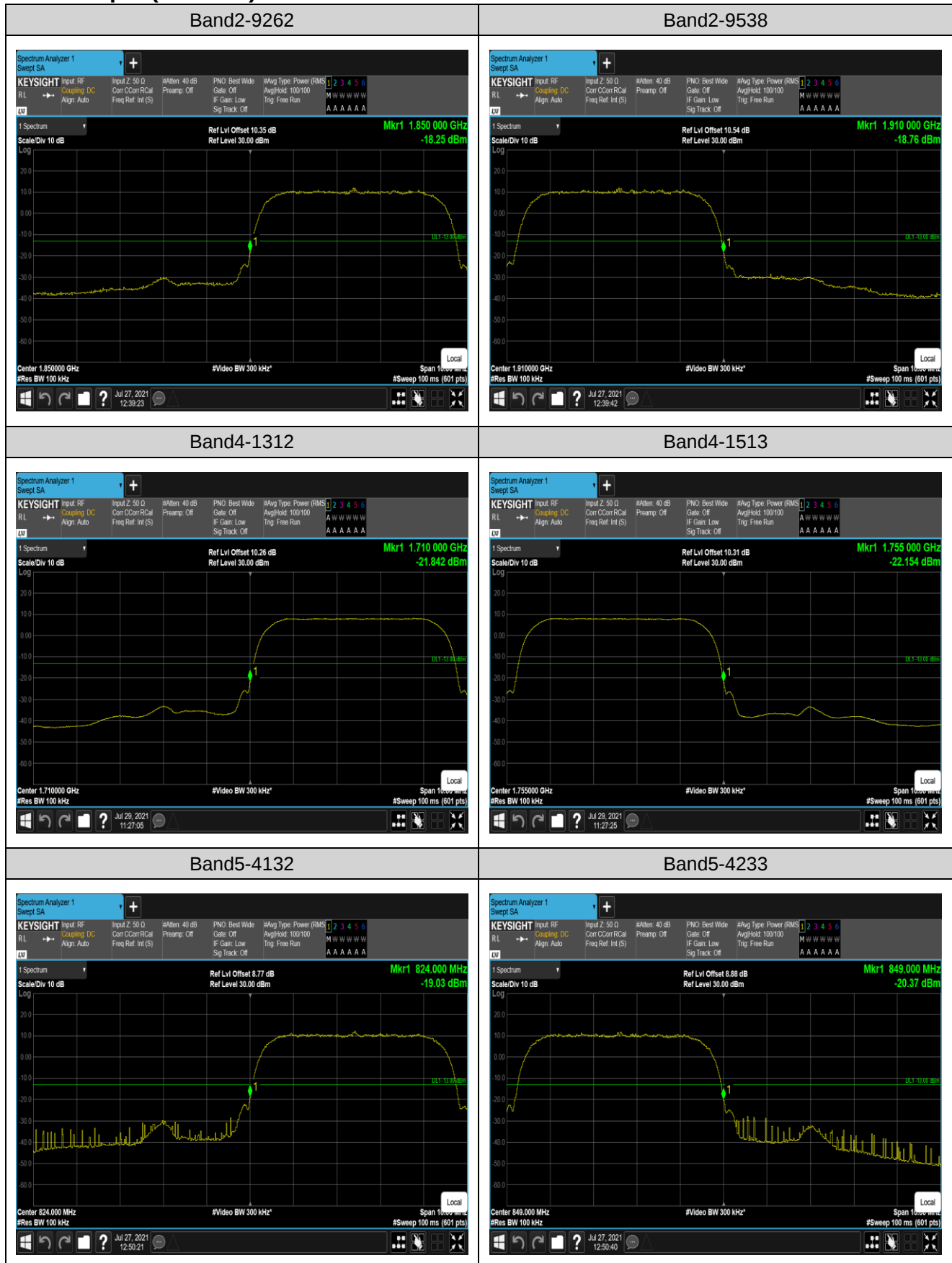


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.25	-13	PASS
Band2	9538	1910.00	-18.76	-13	PASS
Band4	1312	1710.00	-21.84	-13	PASS
Band4	1513	1755.00	-22.15	-13	PASS
Band5	4132	824.00	-19.03	-13	PASS
Band5	4233	849.00	-20.37	-13	PASS

Test Graphs(WCDMA)

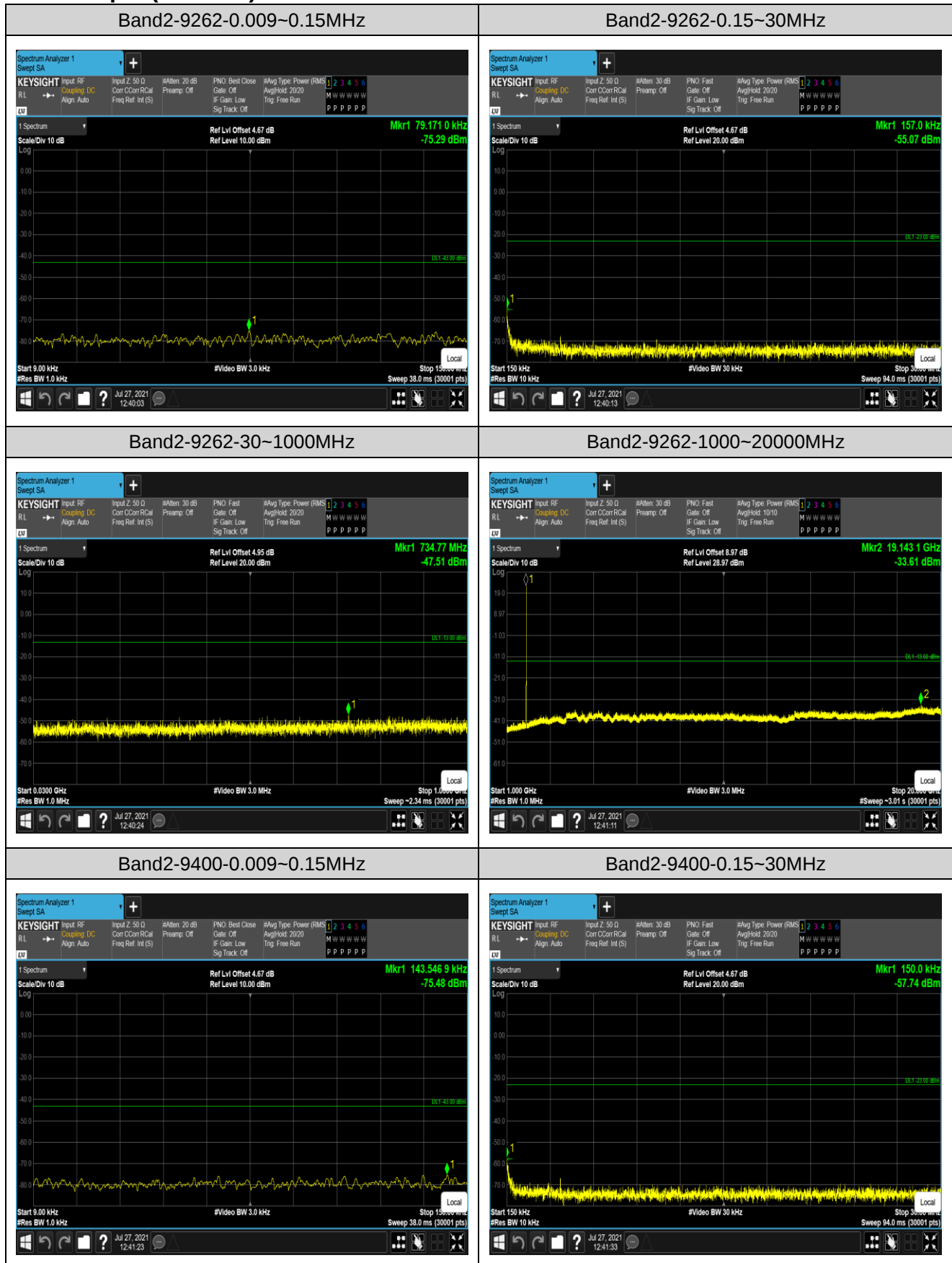


AppendixE:Conducted SpuriousEmission

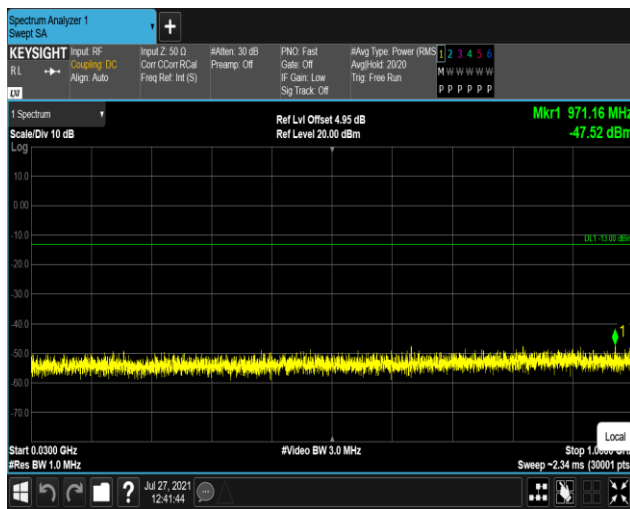
Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.08	-75.29	-43	PASS
Band2	9262	0.15~30MHz	0.16	-55.07	-23	PASS
Band2	9262	30~1000MHz	734.77	-47.51	-13	PASS
Band2	9262	1000~20000MHz	19143.1	-33.61	-13	PASS
Band2	9400	0.009~0.15MHz	0.14	-75.48	-43	PASS
Band2	9400	0.15~30MHz	0.15	-57.74	-23	PASS
Band2	9400	30~1000MHz	971.16	-47.52	-13	PASS
Band2	9400	1000~20000MHz	19299.53	-34.19	-13	PASS
Band2	9538	0.009~0.15MHz	0.11	-74.48	-43	PASS
Band2	9538	0.15~30MHz	0.15	-57.91	-23	PASS
Band2	9538	30~1000MHz	953.05	-46.84	-13	PASS
Band2	9538	1000~20000MHz	19333.1	-33.92	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-75.45	-43	PASS
Band4	1312	0.15~30MHz	0.15	-58.1	-23	PASS
Band4	1312	30~1000MHz	932.07	-47.73	-13	PASS
Band4	1312	1000~20000MHz	19429.37	-34.56	-13	PASS
Band4	1413	0.009~0.15MHz	0.06	-74.1	-43	PASS
Band4	1413	0.15~30MHz	0.19	-58.25	-23	PASS
Band4	1413	30~1000MHz	906.69	-47.93	-13	PASS
Band4	1413	1000~20000MHz	19297.63	-34.64	-13	PASS
Band4	1513	0.009~0.15MHz	0.14	-74.89	-43	PASS
Band4	1513	0.15~30MHz	0.15	-56.36	-23	PASS
Band4	1513	30~1000MHz	888.19	-48.03	-13	PASS
Band4	1513	1000~20000MHz	19844.83	-34.32	-13	PASS
Band5	4132	0.009~0.15MHz	0.12	-75.32	-33	PASS
Band5	4132	0.15~30MHz	0.15	-58.63	-13	PASS
Band5	4132	30~1000MHz	468.34	-57.15	-13	PASS
Band5	4132	1000~10000MHz	4036	-35.83	-13	PASS
Band5	4183	0.009~0.15MHz	0.12	-74.1	-33	PASS
Band5	4183	0.15~30MHz	0.15	-57.54	-13	PASS
Band5	4183	30~1000MHz	569.74	-57.46	-13	PASS
Band5	4183	1000~10000MHz	3981.4	-35.26	-13	PASS
Band5	4233	0.009~0.15MHz	0.02	-75.47	-33	PASS
Band5	4233	0.15~30MHz	0.18	-58.08	-13	PASS
Band5	4233	30~1000MHz	971.03	-56.21	-13	PASS
Band5	4233	1000~10000MHz	5026.9	-35.53	-13	PASS

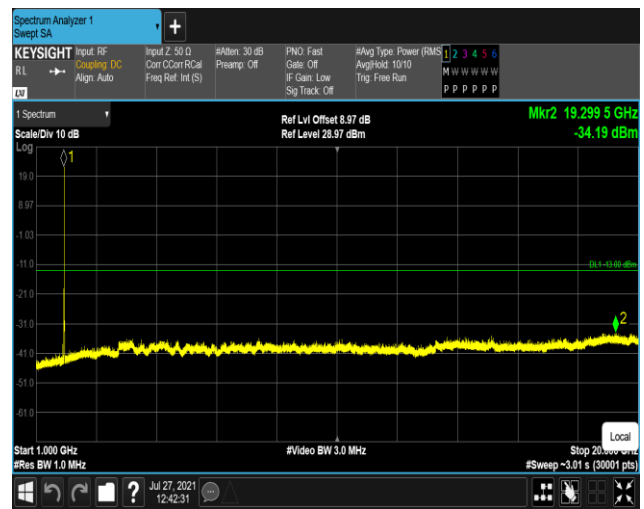
Test Graphs(WCDMA)



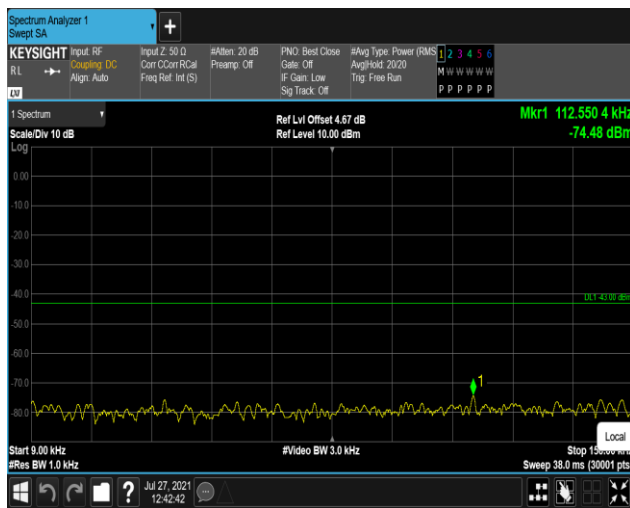
Band2-9400-30~1000MHz



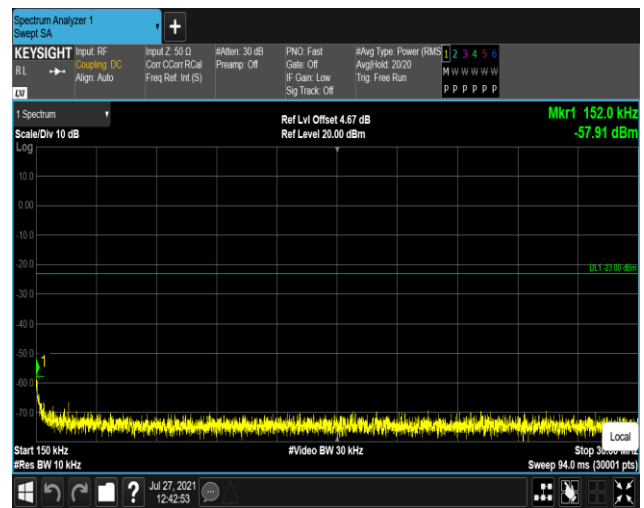
Band2-9400-1000~20000MHz



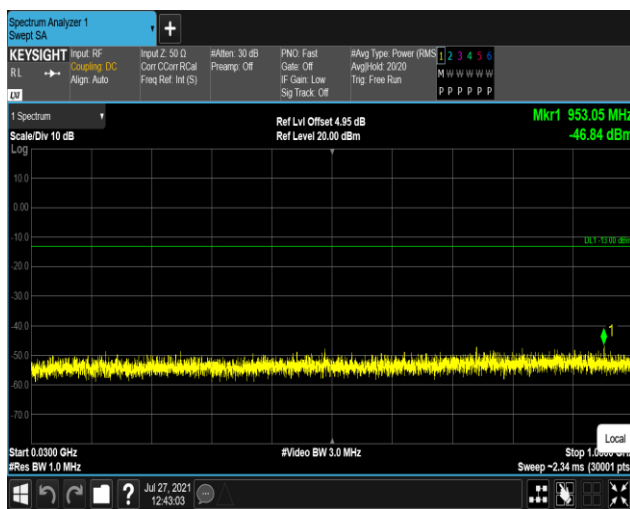
Band2-9538-0.009~0.15MHz



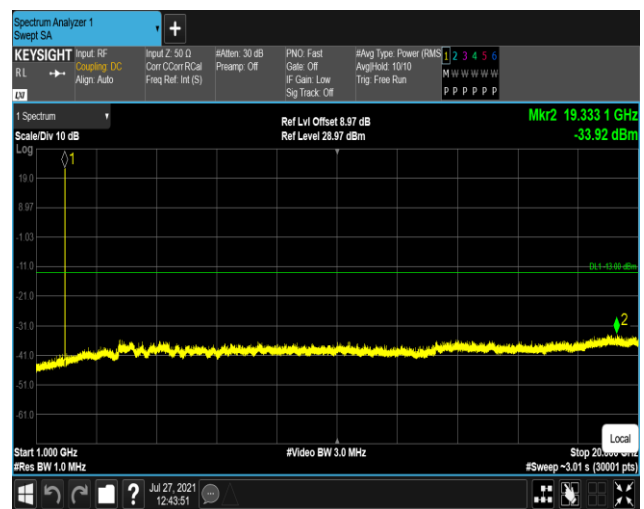
Band2-9538-0.15~30MHz



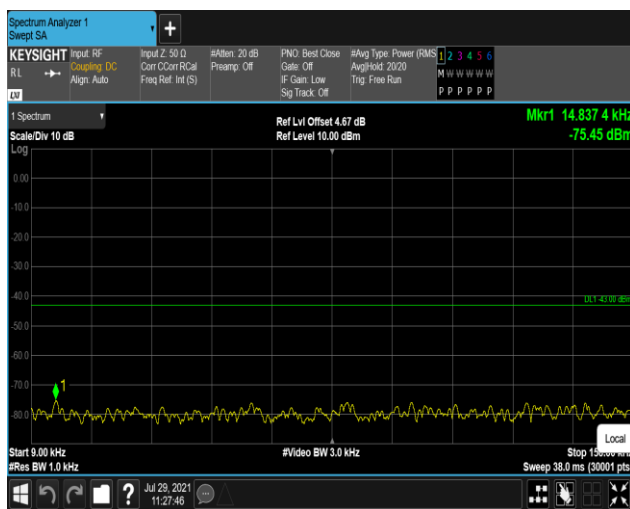
Band2-9538-30~1000MHz



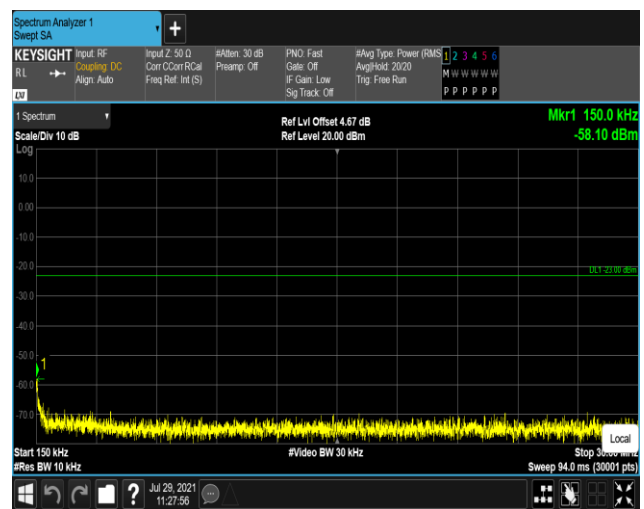
Band2-9538-1000~20000MHz



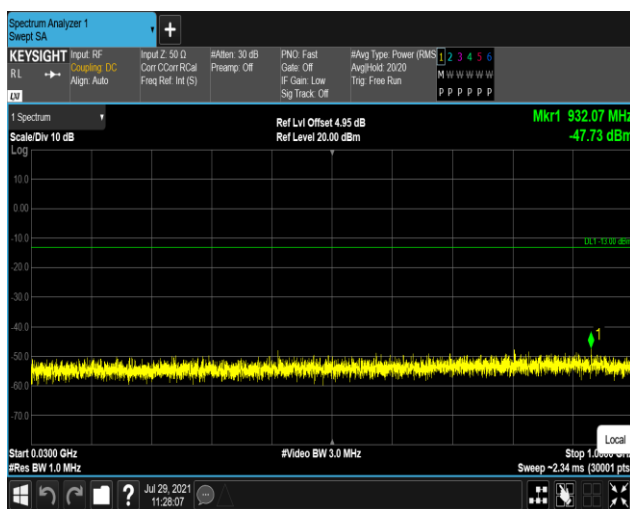
Band4-1312-0.009~0.15MHz



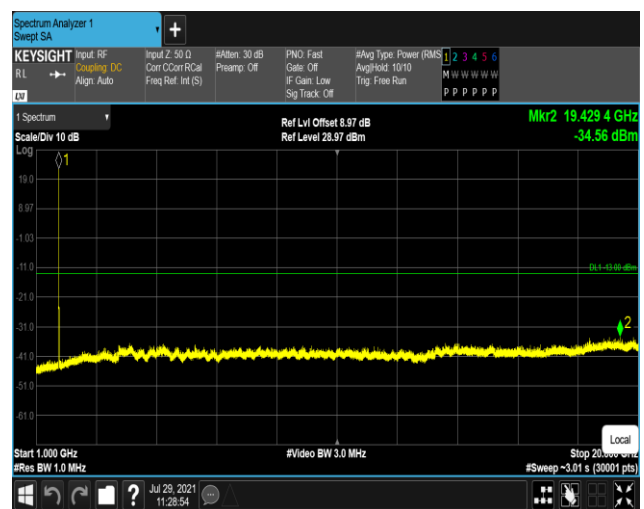
Band4-1312-0.15~30MHz



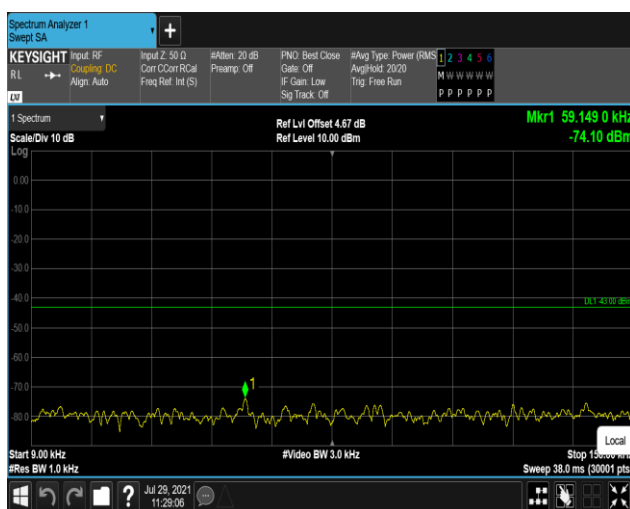
Band4-1312-30~1000MHz



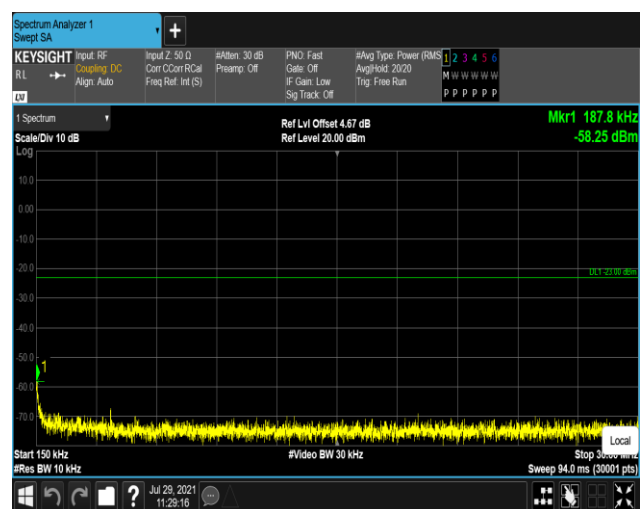
Band4-1312-1000~20000MHz



Band4-1413-0.009~0.15MHz

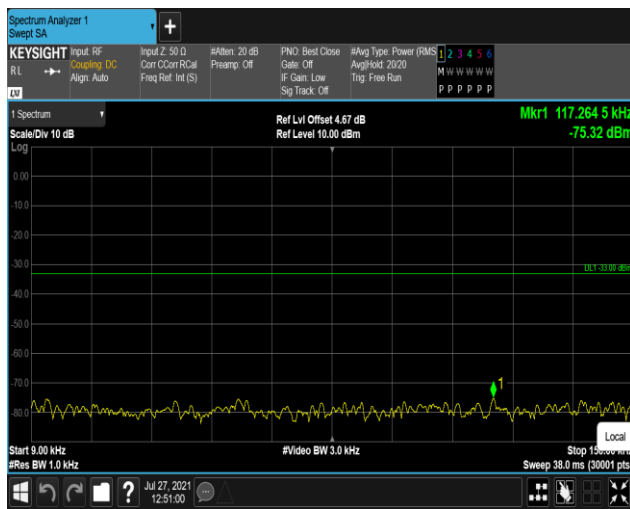


Band4-1413-0.15~30MHz

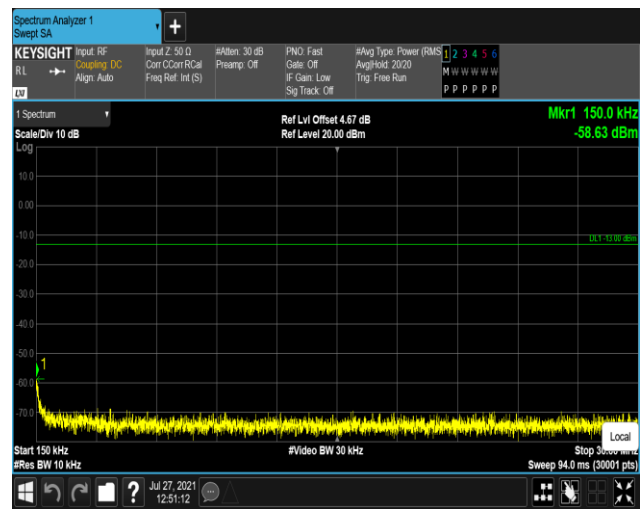




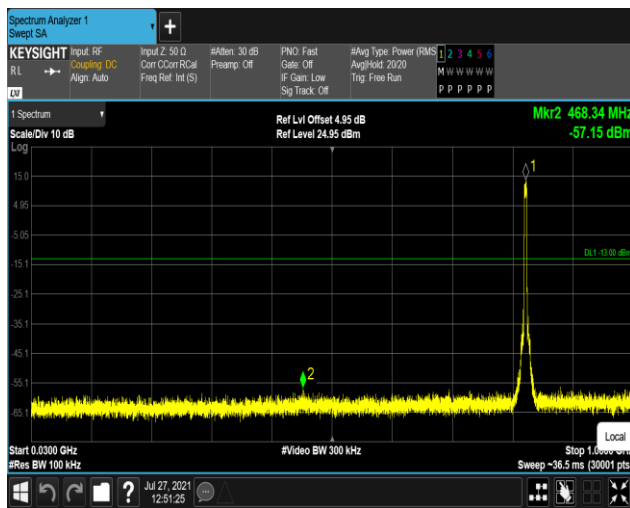
Band5-4132-0.009~0.15MHz



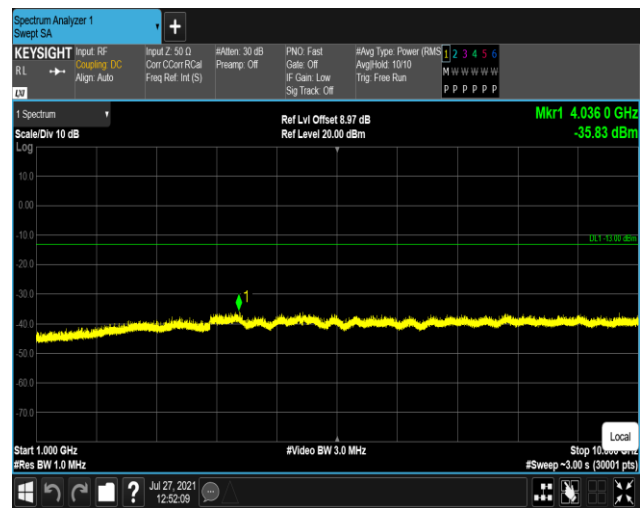
Band5-4132-0.15~30MHz



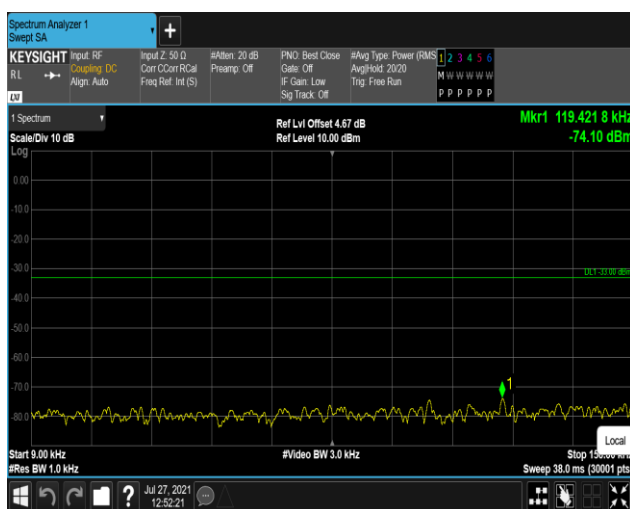
Band5-4132-30~1000MHz



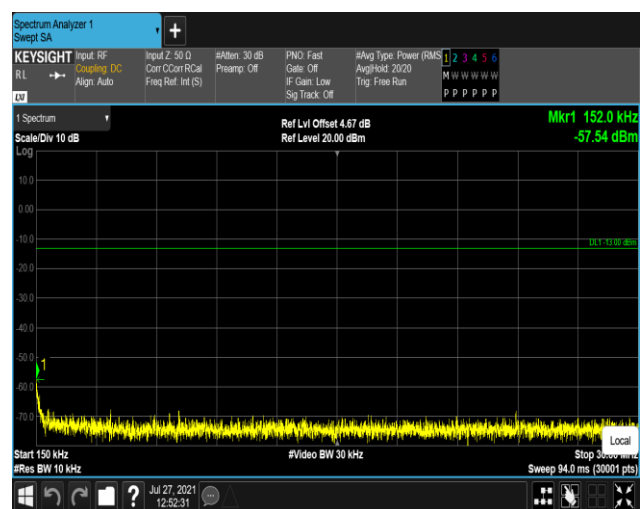
Band5-4132-1000~10000MHz

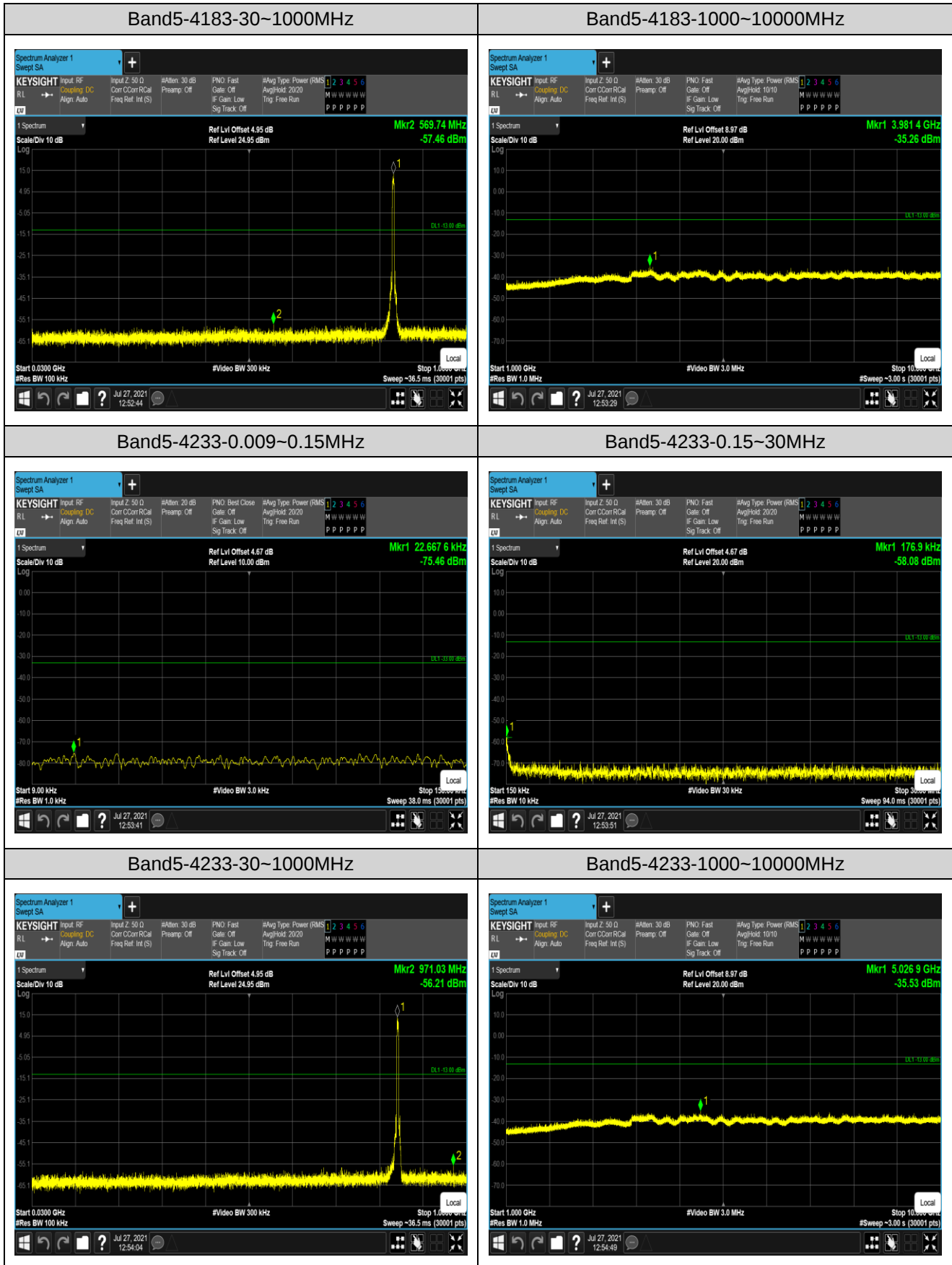


Band5-4183-0.009~0.15MHz



Band5-4183-0.15~30MHz





AppendixF:Frequency Stability

Test Result

Reference Frequency: WCDMA BAND II 12.2k RMC Middle Frequency=9400 channel=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-9.29	-0.004941	Within authorized band for BAND II	Pass
	-20	-12.15	-0.006463		
	-10	-12.55	-0.006676		
	0	-10.57	-0.005622		
	10	-10.46	-0.005564		
	20	-13.82	-0.007351		
	30	-8.09	-0.004303		
	40	-13.63	-0.007250		
	50	-13.33	-0.007090		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-12.45	-0.006622	Within authorized band for BAND II	Pass
	3.85	-11.56	-0.006149		
	4.40	-10.41	-0.005537		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-7.47	-0.008929	±2.5	Pass
	-20	-6.74	-0.008056		
	-10	-8.73	-0.010435		
	0	-7.66	-0.009156		
	10	-9.79	-0.011702		
	20	-7.76	-0.009276		
	30	-4.58	-0.005475		
	40	-7.82	-0.009347		
	50	-8.20	-0.009802		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-8.92	-0.010662	±2.5	Pass
	3.85	-9.34	-0.011164		
	4.40	-11.34	-0.013555		
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 channel=1413 Frequency=1732.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-10.04	-0.005795	Within authorized band for BAND IV	Pass
	-20	-12.65	-0.007301		
	-10	-12.63	-0.007290		
	0	-11.27	-0.006505		
	10	-9.03	-0.005212		
	20	-9.38	-0.005414		
	30	-13.50	-0.007792		
	40	-13.83	-0.007982		
	50	-12.96	-0.007480		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-15.05	-0.008686	Within authorized band for BAND IV	Pass
	3.85	-12.38	-0.007145		
	4.40	-13.42	-0.007746		
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

