

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	22.87	22.26	33.01	PASS
Band2	TestMode	9262	23.00	22.39	33.01	PASS
Band2	TestMode	9400	23.37	22.76	33.01	PASS
Band2	Voice	9400	23.36	22.75	33.01	PASS
Band2	TestMode	9538	23.25	22.64	33.01	PASS
Band2	Voice	9538	23.24	22.63	33.01	PASS
Band4	Voice	1312	22.88	22.14	30.00	PASS
Band4	TestMode	1312	22.93	22.19	30.00	PASS
Band4	Voice	1413	23.11	22.37	30.00	PASS
Band4	TestMode	1413	23.14	22.4	30.00	PASS
Band4	TestMode	1513	23.15	22.41	30.00	PASS
Band4	Voice	1513	23.03	22.29	30.00	PASS
Band5	Voice	4132	22.78	19.53	38.45	PASS
Band5	TestMode	4132	22.81	19.56	38.45	PASS
Band5	TestMode	4183	22.92	19.67	38.45	PASS
Band5	Voice	4183	22.93	19.68	38.45	PASS
Band5	Voice	4233	23.00	19.75	38.45	PASS
Band5	TestMode	4233	23.00	19.75	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	23.00	22.39	33.01	PASS
Band2	9262	2	22.91	22.3	33.01	PASS
Band2	9262	3	21.63	21.02	33.01	PASS
Band2	9262	4	21.67	21.06	33.01	PASS
Band2	9400	1	23.13	22.52	33.01	PASS
Band2	9400	2	23.00	22.39	33.01	PASS
Band2	9400	3	21.75	21.14	33.01	PASS
Band2	9400	4	21.75	21.14	33.01	PASS
Band2	9538	1	22.89	22.28	33.01	PASS
Band2	9538	2	22.78	22.17	33.01	PASS
Band2	9538	3	21.48	20.87	33.01	PASS
Band2	9538	4	21.56	20.95	33.01	PASS

Band4	1312	1	21.29	20.55	30.00	PASS
Band4	1312	2	21.49	20.75	30.00	PASS
Band4	1312	3	21.52	20.78	30.00	PASS
Band4	1312	4	21.57	20.83	30.00	PASS
Band4	1413	1	21.79	21.05	30.00	PASS
Band4	1413	2	21.96	21.22	30.00	PASS
Band4	1413	3	21.98	21.24	30.00	PASS
Band4	1413	4	22.03	21.29	30.00	PASS
Band4	1513	1	21.25	20.51	30.00	PASS
Band4	1513	2	21.44	20.7	30.00	PASS
Band4	1513	3	21.43	20.69	30.00	PASS
Band4	1513	4	21.48	20.74	30.00	PASS
Band5	4132	1	23.49	20.24	38.5	PASS
Band5	4132	2	22.71	19.46	38.5	PASS
Band5	4132	3	21.06	17.81	38.5	PASS
Band5	4132	4	21.07	17.82	38.5	PASS
Band5	4183	1	23.42	20.17	38.5	PASS
Band5	4183	2	22.34	19.09	38.5	PASS
Band5	4183	3	21.01	17.76	38.5	PASS
Band5	4183	4	21.05	17.8	38.5	PASS
Band5	4233	1	23.17	19.92	38.5	PASS
Band5	4233	2	22.40	19.15	38.5	PASS
Band5	4233	3	20.77	17.52	38.5	PASS
Band5	4233	4	20.83	17.58	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.87	19.26	33.01	PASS
Band2	9262	2	20.47	19.86	33.01	PASS
Band2	9262	3	20.29	19.68	33.01	PASS
Band2	9262	4	20.54	19.93	33.01	PASS
Band2	9262	5	22.25	21.64	33.01	PASS
Band2	9400	1	20.27	19.66	33.01	PASS
Band2	9400	2	20.66	20.05	33.01	PASS
Band2	9400	3	20.47	19.86	33.01	PASS
Band2	9400	4	20.71	20.1	33.01	PASS
Band2	9400	5	22.33	21.72	33.01	PASS
Band2	9538	1	20.07	19.46	33.01	PASS
Band2	9538	2	20.45	19.84	33.01	PASS
Band2	9538	3	20.26	19.65	33.01	PASS

Band2	9538	4	20.46	19.85	33.01	PASS
Band2	9538	5	22.15	21.54	33.01	PASS
Band4	1312	1	21.47	20.73	30.00	PASS
Band4	1312	2	21.64	20.9	30.00	PASS
Band4	1312	3	21.40	20.66	30.00	PASS
Band4	1312	4	21.73	20.99	30.00	PASS
Band4	1312	5	21.80	21.06	30.00	PASS
Band4	1413	1	22.02	21.28	30.00	PASS
Band4	1413	2	22.19	21.45	30.00	PASS
Band4	1413	3	21.94	21.2	30.00	PASS
Band4	1413	4	22.27	21.53	30.00	PASS
Band4	1413	5	22.26	21.52	30.00	PASS
Band4	1513	1	21.54	20.8	30.00	PASS
Band4	1513	2	21.71	20.97	30.00	PASS
Band4	1513	3	21.49	20.75	30.00	PASS
Band4	1513	4	21.81	21.07	30.00	PASS
Band4	1513	5	21.71	20.97	30.00	PASS
Band5	4132	1	20.09	16.84	38.5	PASS
Band5	4132	2	20.64	17.39	38.5	PASS
Band5	4132	3	20.33	17.08	38.5	PASS
Band5	4132	4	20.21	16.96	38.5	PASS
Band5	4132	5	23.72	20.47	38.5	PASS
Band5	4183	1	20.44	17.19	38.5	PASS
Band5	4183	2	20.77	17.52	38.5	PASS
Band5	4183	3	20.48	17.23	38.5	PASS
Band5	4183	4	20.36	17.11	38.5	PASS
Band5	4183	5	23.84	20.59	38.5	PASS
Band5	4233	1	20.35	17.1	38.5	PASS
Band5	4233	2	20.68	17.43	38.5	PASS
Band5	4233	3	20.36	17.11	38.5	PASS
Band5	4233	4	20.26	17.01	38.5	PASS
Band5	4233	5	23.47	20.22	38.5	PASS

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

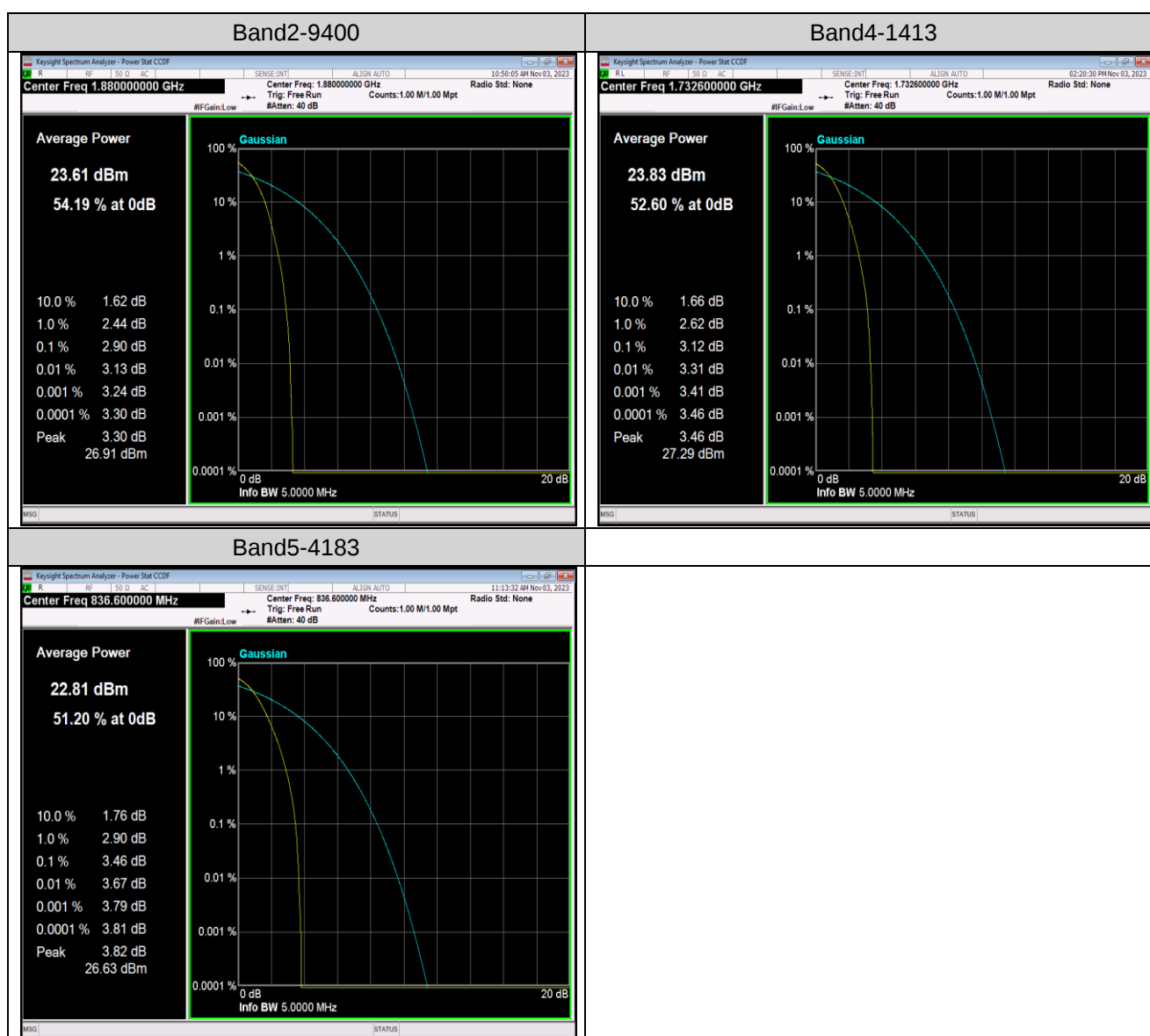
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.9	13	PASS
Band4	1413	3.12	13	PASS
Band5	4183	3.46	13	PASS

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

Test Graphs(WCDMA)

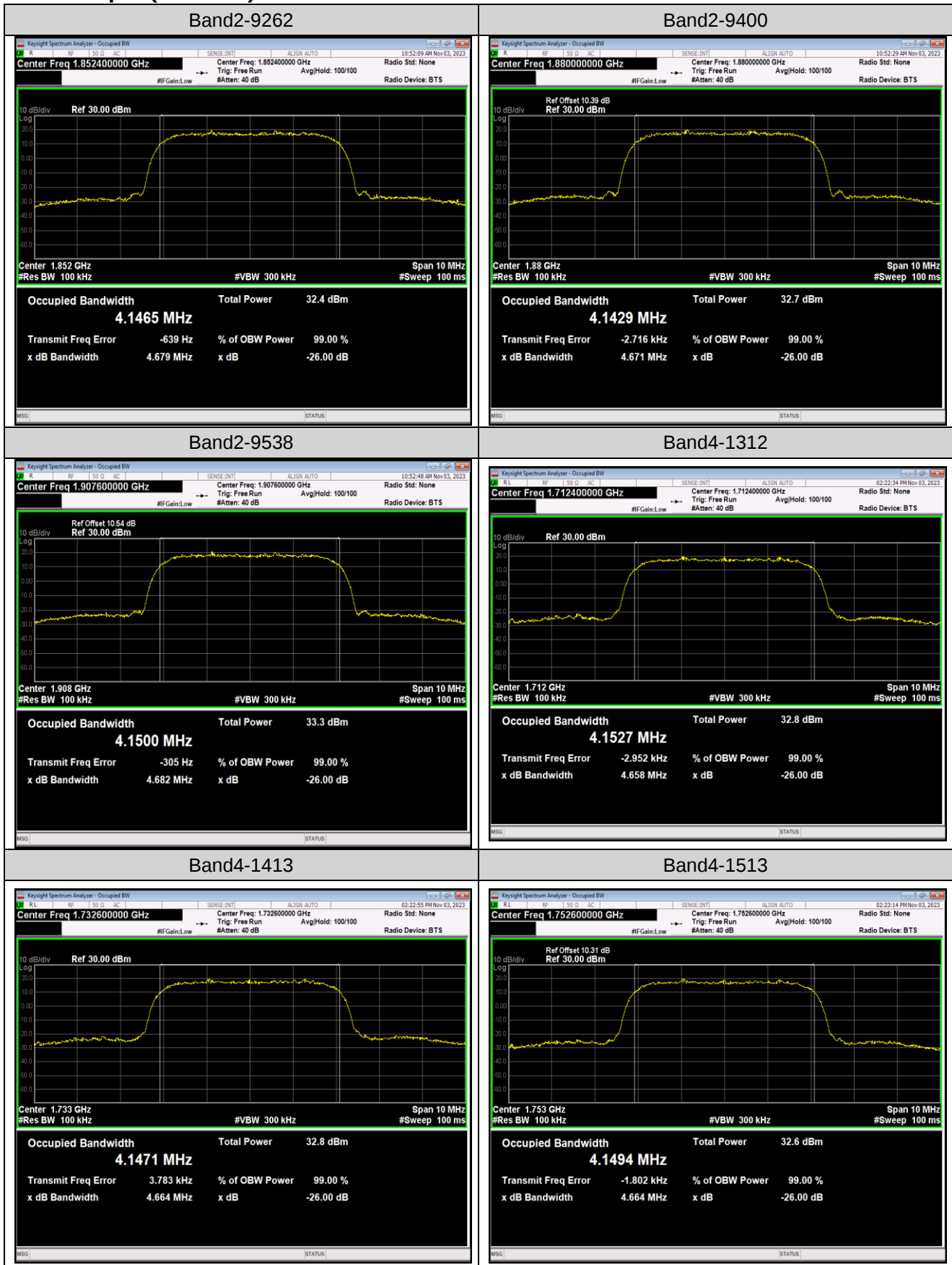


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1465	4.679	---	PASS
Band2	9400	4.1429	4.671	---	PASS
Band2	9538	4.1500	4.682	---	PASS
Band4	1312	4.1527	4.658	---	PASS
Band4	1413	4.1471	4.664	---	PASS
Band4	1513	4.1494	4.664	---	PASS
Band5	4132	4.1526	4.660	---	PASS
Band5	4183	4.1420	4.650	---	PASS
Band5	4233	4.1453	4.656	---	PASS

Test Graphs(WCDMA)



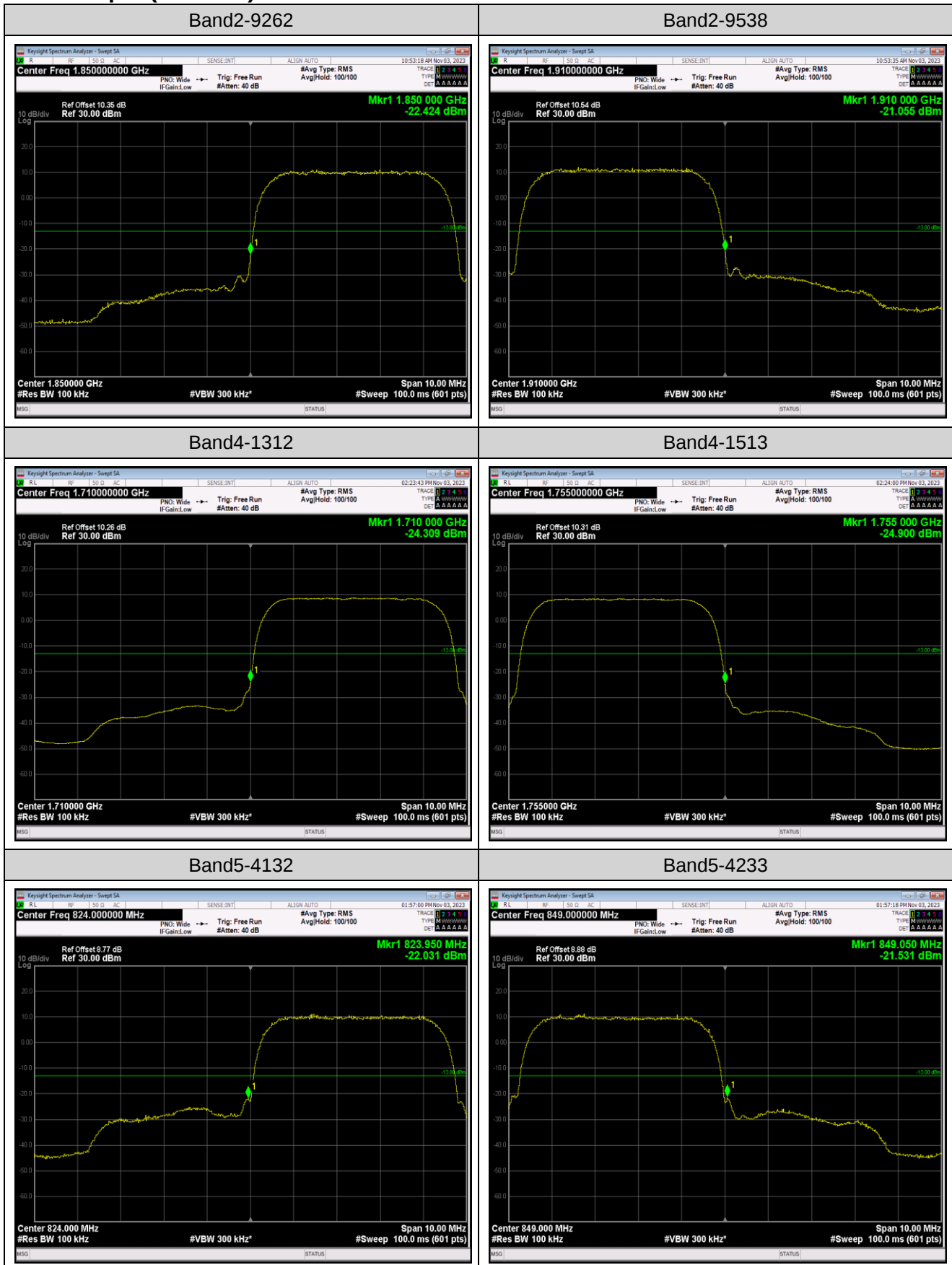


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.42	-13	PASS
Band2	9538	1910.00	-21.05	-13	PASS
Band4	1312	1710.00	-24.31	-13	PASS
Band4	1513	1755.00	-24.90	-13	PASS
Band5	4132	823.95	-22.03	-13	PASS
Band5	4233	849.05	-21.53	-13	PASS

Test Graphs(WCDMA)

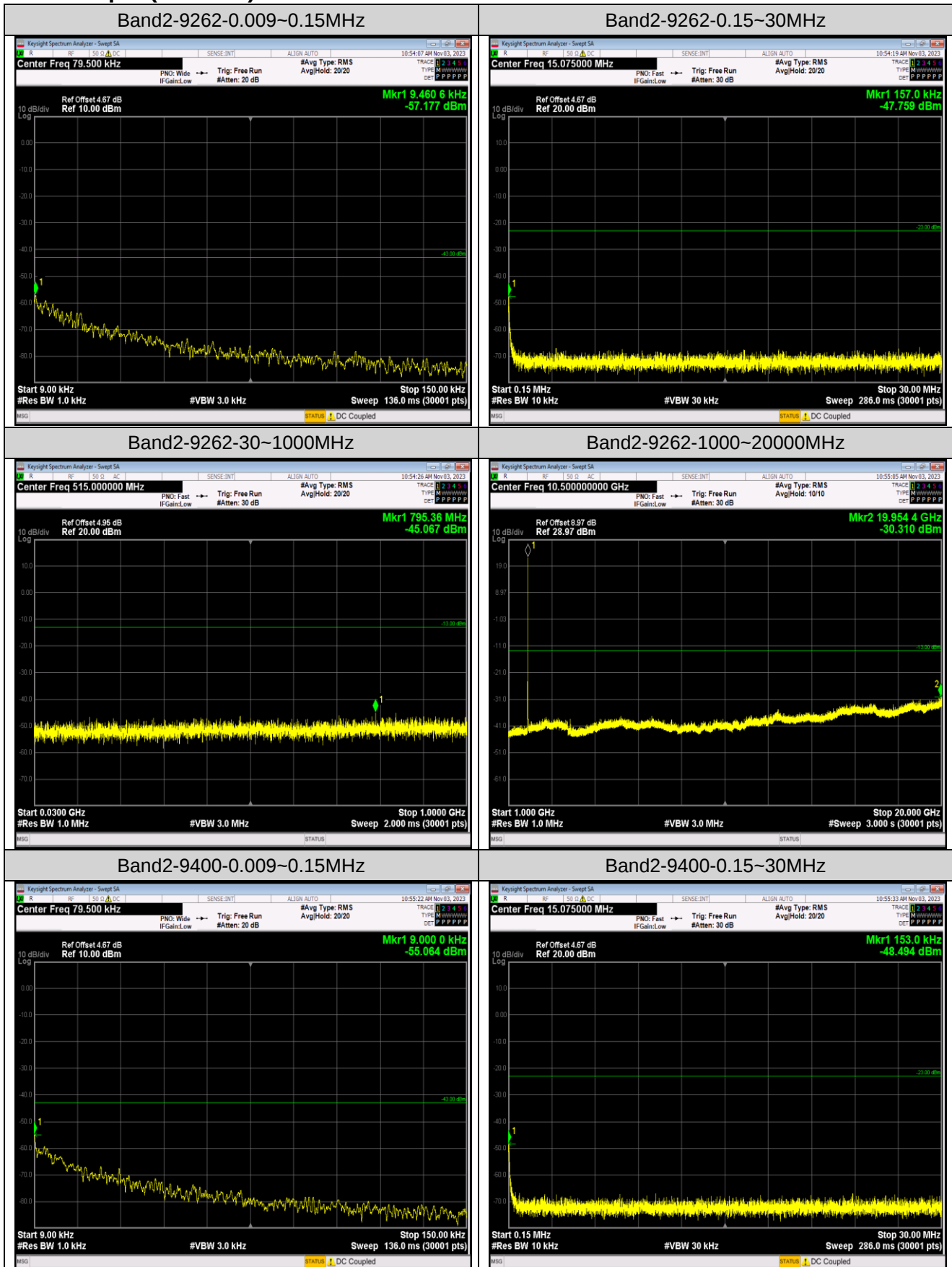


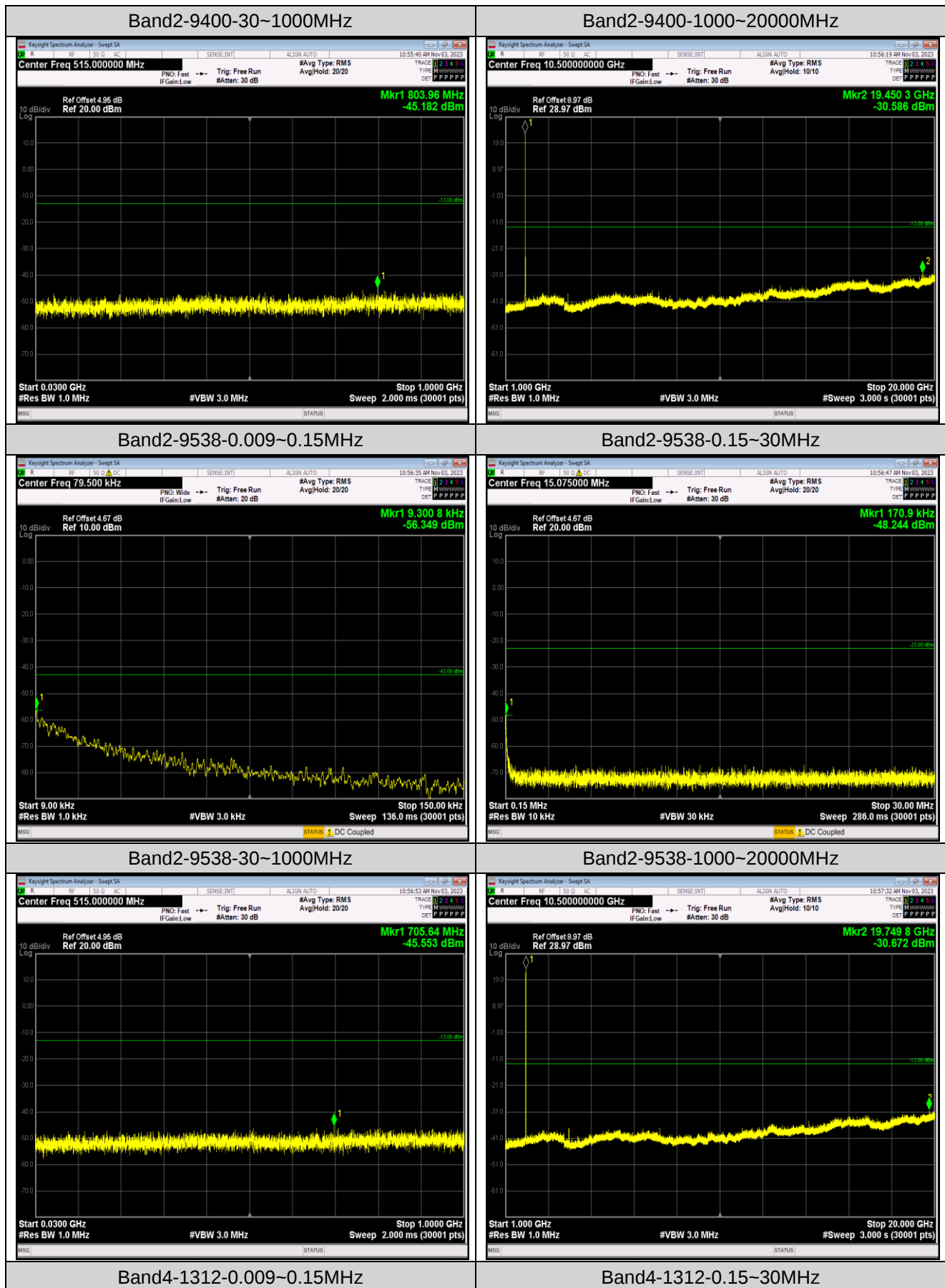
AppendixE:Conducted SpuriousEmission

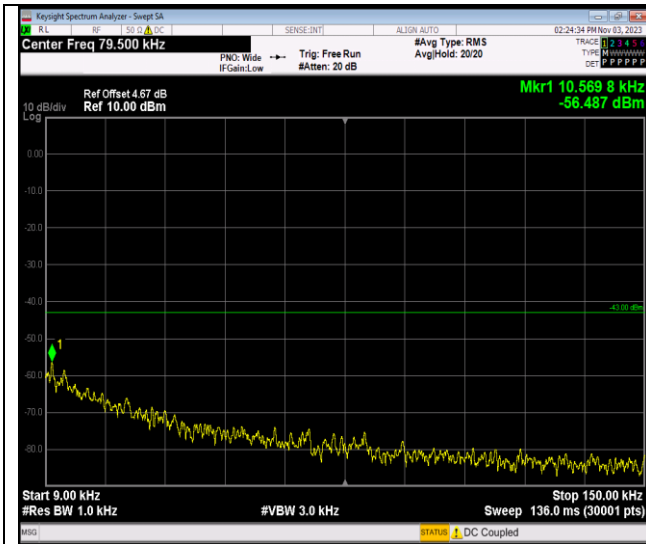
Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-57.18	-43	PASS
Band2	9262	0.15~30MHz	0.16	-47.76	-23	PASS
Band2	9262	30~1000MHz	795.36	-45.07	-13	PASS
Band2	9262	1000~20000MHz	19954.4	-30.31	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-55.06	-43	PASS
Band2	9400	0.15~30MHz	0.15	-48.49	-23	PASS
Band2	9400	30~1000MHz	803.96	-45.18	-13	PASS
Band2	9400	1000~20000MHz	19450.27	-30.59	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.35	-43	PASS
Band2	9538	0.15~30MHz	0.17	-48.24	-23	PASS
Band2	9538	30~1000MHz	705.64	-45.55	-13	PASS
Band2	9538	1000~20000MHz	19749.83	-30.67	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.49	-43	PASS
Band4	1312	0.15~30MHz	0.16	-48.69	-23	PASS
Band4	1312	30~1000MHz	782.98	-45.54	-13	PASS
Band4	1312	1000~20000MHz	19955.03	-30.67	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-58.36	-43	PASS
Band4	1413	0.15~30MHz	0.17	-48.98	-23	PASS
Band4	1413	30~1000MHz	939.99	-45.88	-13	PASS
Band4	1413	1000~20000MHz	19930.33	-30.56	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-58.28	-43	PASS
Band4	1513	0.15~30MHz	0.16	-47.66	-23	PASS
Band4	1513	30~1000MHz	508.63	-44.81	-13	PASS
Band4	1513	1000~20000MHz	19950.6	-30.43	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-58.16	-33	PASS
Band5	4132	0.15~30MHz	0.15	-49.15	-13	PASS
Band5	4132	30~1000MHz	689.96	-54.82	-13	PASS
Band5	4132	1000~10000MHz	5783.8	-36.63	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-58.23	-33	PASS
Band5	4183	0.15~30MHz	0.15	-49.78	-13	PASS
Band5	4183	30~1000MHz	736.06	-55.24	-13	PASS
Band5	4183	1000~10000MHz	5863.6	-36.91	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.46	-33	PASS
Band5	4233	0.15~30MHz	0.15	-47.16	-13	PASS
Band5	4233	30~1000MHz	498.15	-54.55	-13	PASS
Band5	4233	1000~10000MHz	5853.1	-36.84	-13	PASS

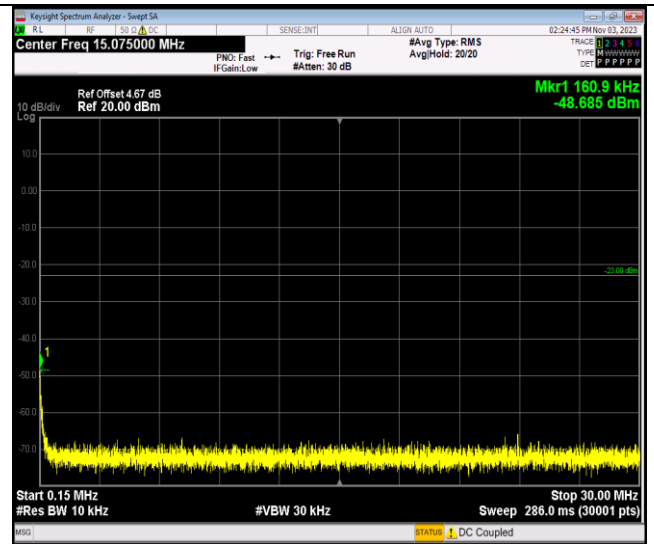
Test Graphs(WCDMA)



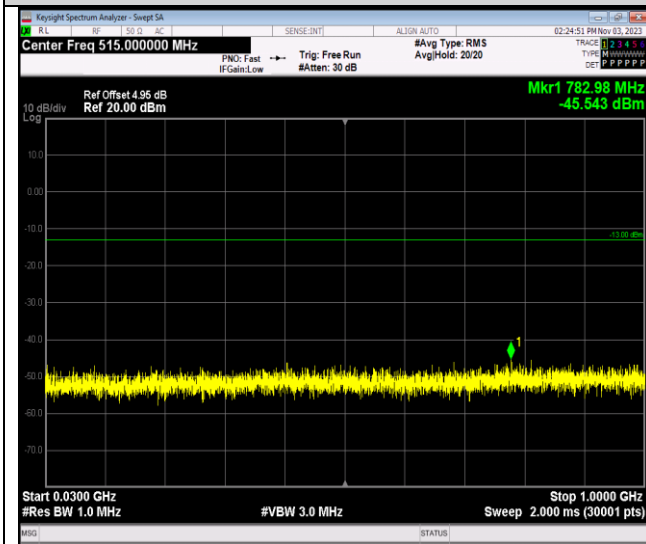




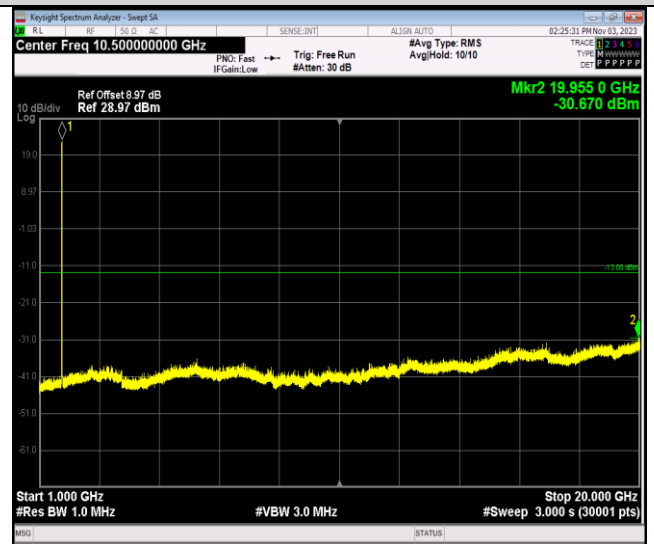
Band4-1312-30~1000MHz



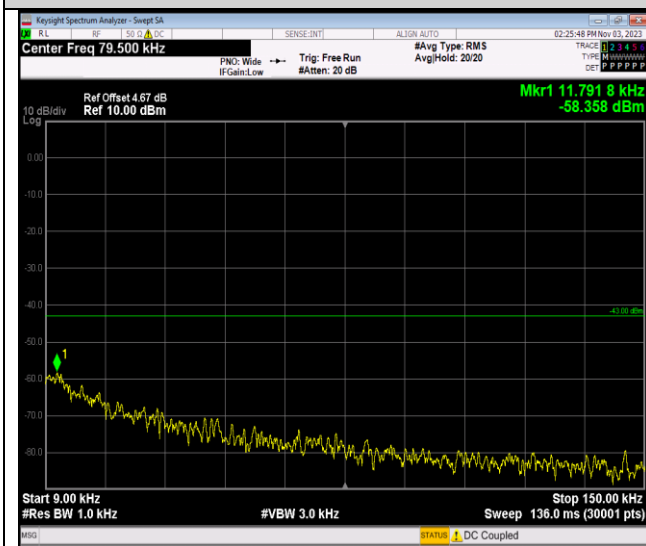
Band4-1312-1000~20000MHz



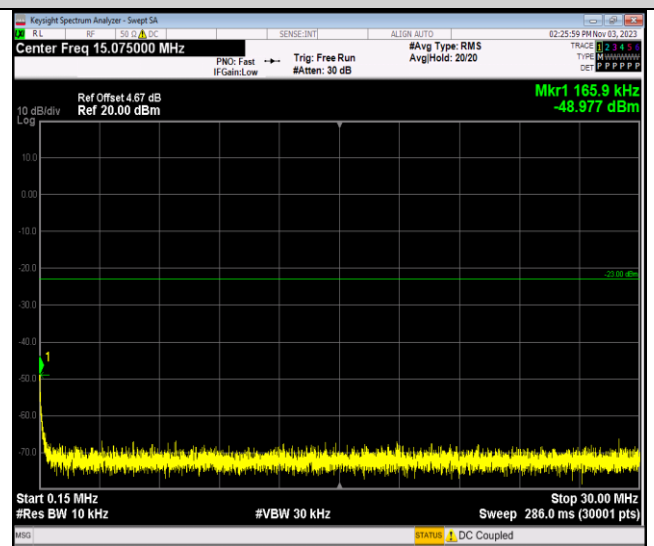
Band4-1413-0.009~0.15MHz



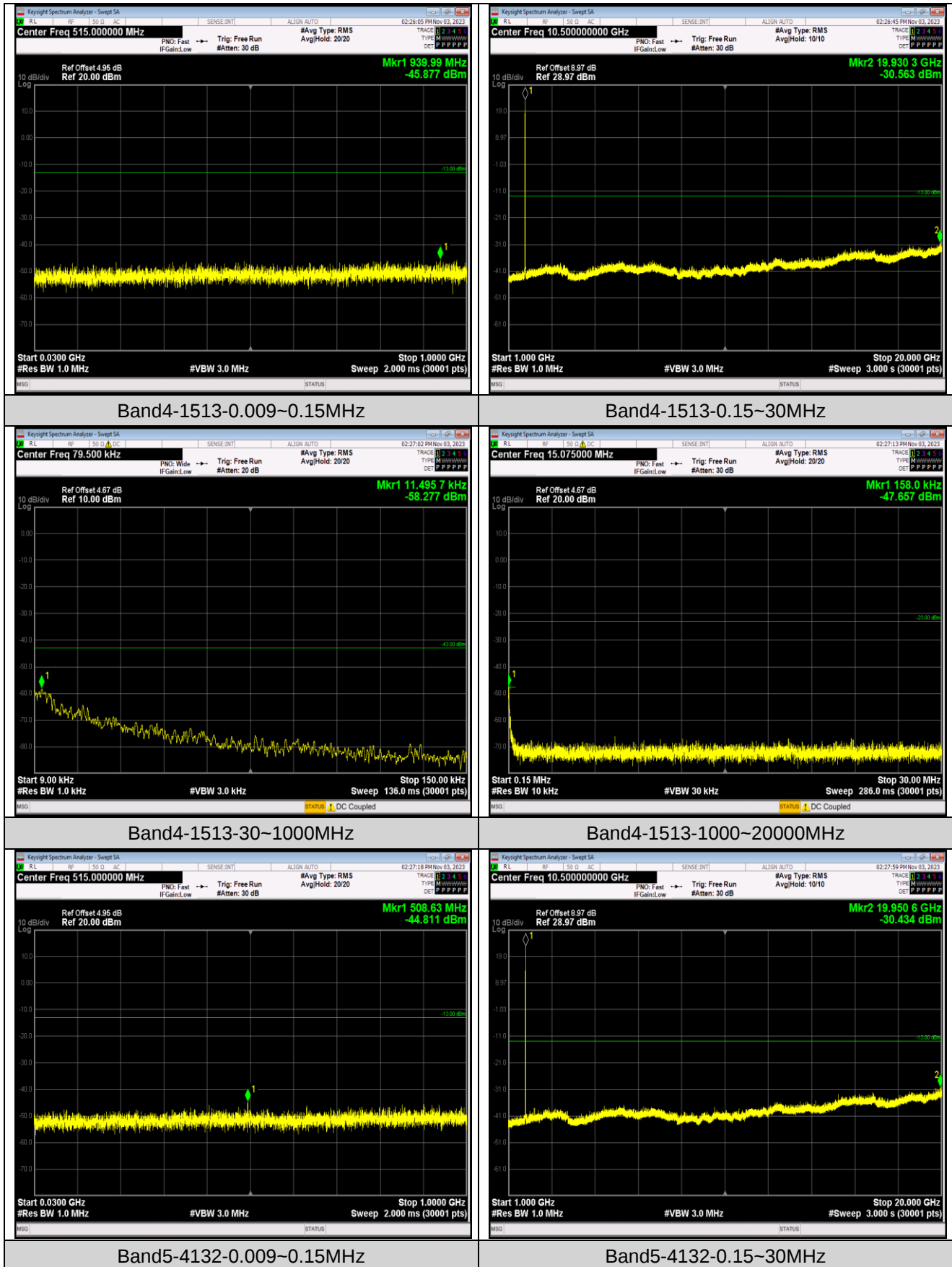
Band4-1413-0.15~30MHz

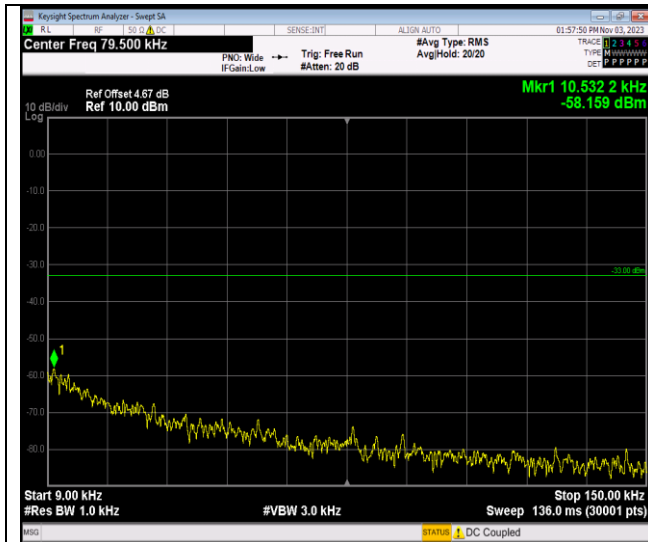


Band4-1413-30~1000MHz

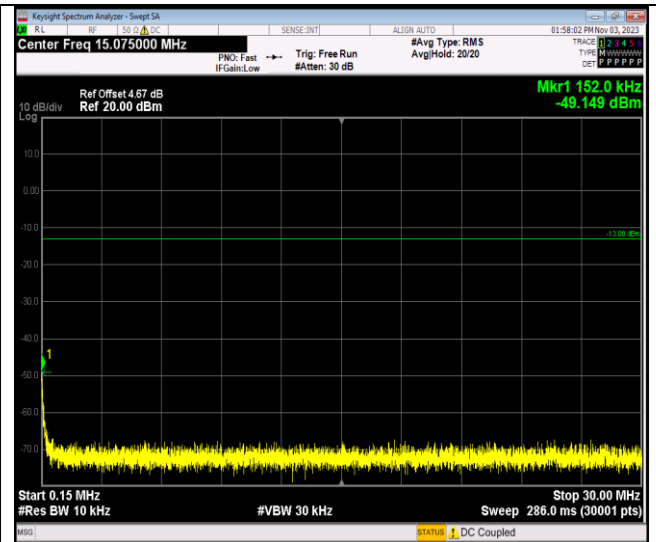


Band4-1413-1000~20000MHz

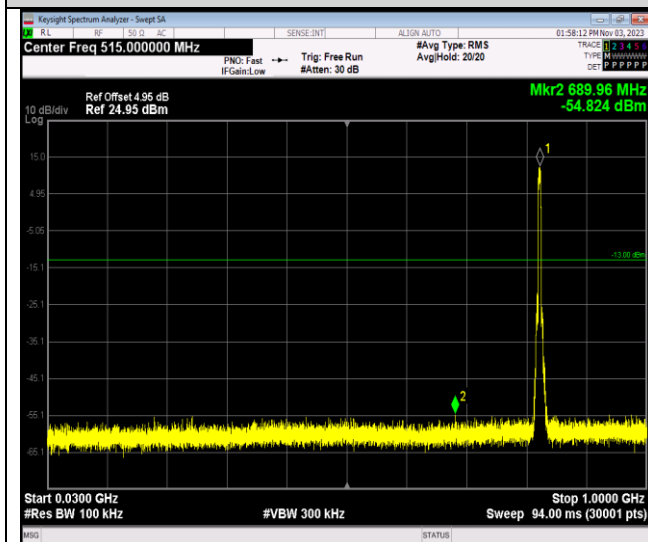




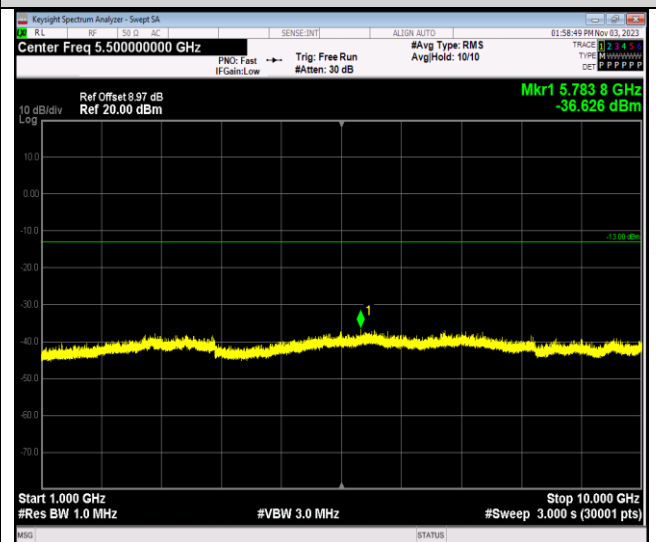
Band5-4132-30~1000MHz



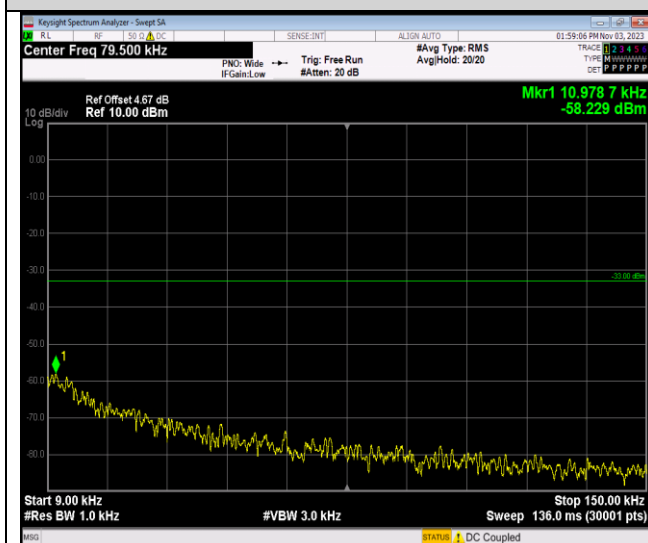
Band5-4132-1000~10000MHz



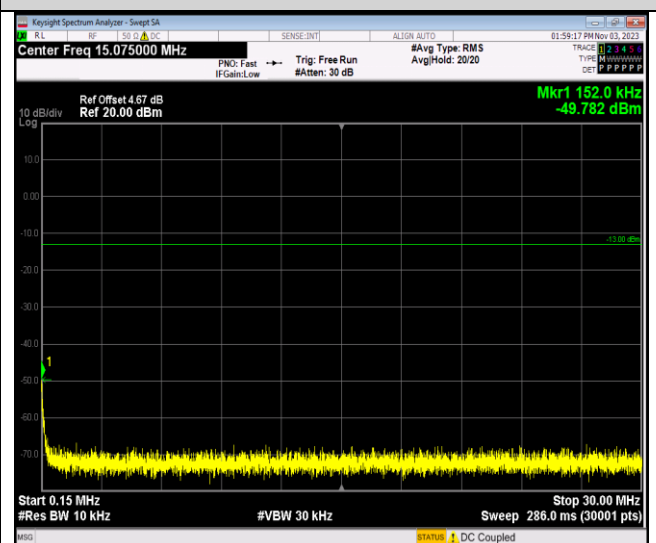
Band5-4183-0.009~0.15MHz



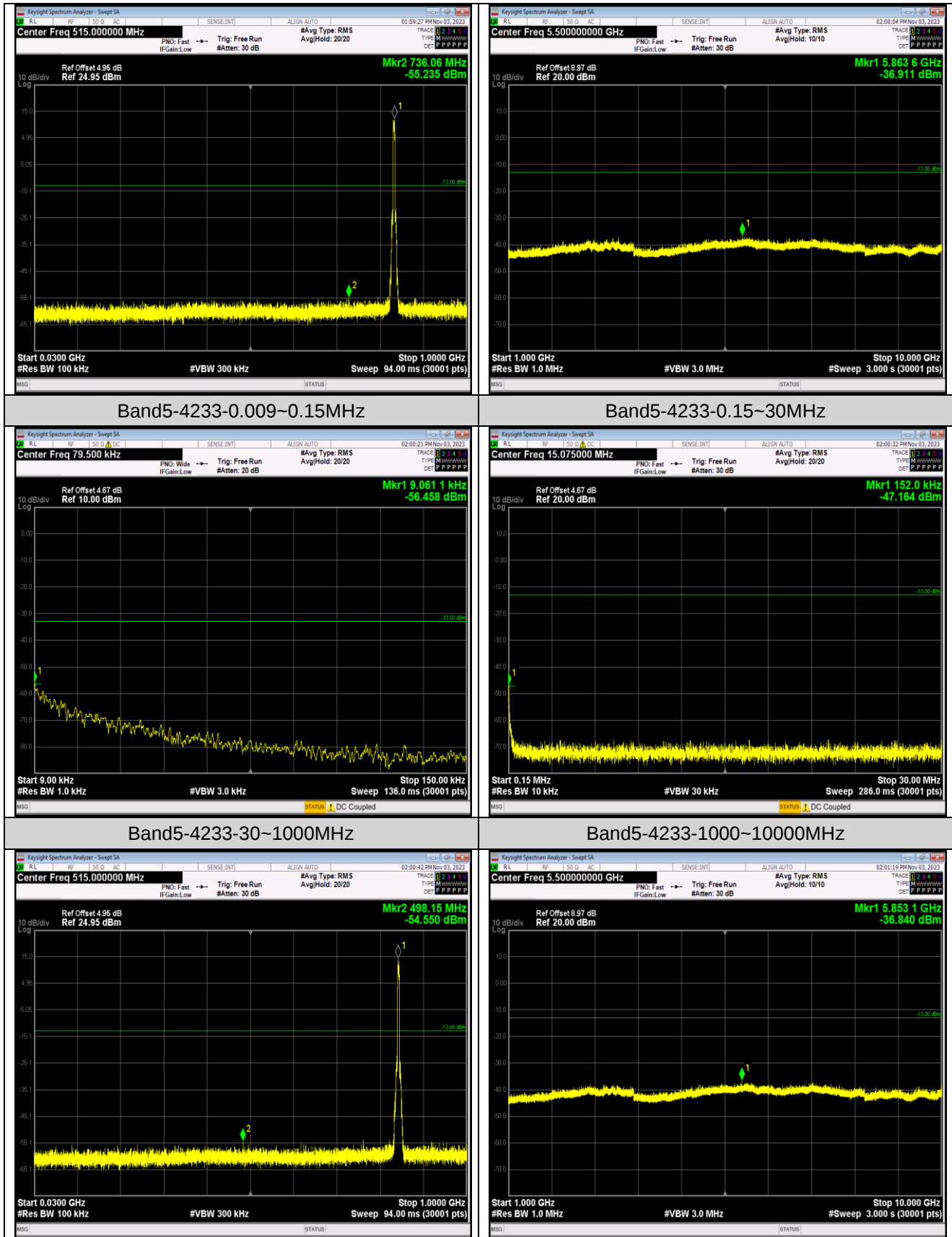
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz



Band5-4183-1000~10000MHz



AppendixF:Frequency Stability

Test Result

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		
3.70	-30	0.84	0.001004	±2.5	Pass
	-20	0.37	0.000442		
	-10	-0.28	-0.000335		
	0	-0.06	-0.000072		
	10	-0.87	-0.001040		
	20	-0.75	-0.000896		
	30	-0.14	-0.000167		
	40	-2.40	-0.002869		
	50	-0.23	-0.000275		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.49	0.001781	±2.5	Pass
	3.70	0.76	0.000908		
	4.20	0.89	0.001064		
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		
3.70	-30	-7.96	-0.004594	Within authorized band for BAND IV	Pass
	-20	6.77	0.003907		
	-10	5.21	0.003007		
	0	2.72	0.001570		
	10	-1.33	-0.000768		
	20	-1.92	-0.001108		
	30	-7.10	-0.004098		
	40	-9.09	-0.005246		
	50	8.05	0.004646		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.74	-0.000427	Within authorized band for BAND IV	Pass
	3.70	2.22	0.001281		
	4.20	-3.58	-0.002066		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

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		
3.70	-30	0.44	0.000234	Within authorized band for BAND II	Pass
	-20	-2.78	-0.001479		
	-10	-0.51	-0.000271		
	0	0.30	0.000160		
	10	5.02	0.002670		
	20	-5.36	-0.002851		
	30	5.15	0.002739		
	40	-1.11	-0.000590		
	50	1.17	0.000622		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-1.10	-0.000585	Within authorized band for BAND II	Pass
	3.70	6.34	0.003372		
	4.20	2.83	0.001505		
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

