

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	21.85	19.85	33.01	PASS
Band2	TestMode	9262	21.97	19.97	33.01	PASS
Band2	TestMode	9400	22.26	20.26	33.01	PASS
Band2	Voice	9400	22.04	20.04	33.01	PASS
Band2	TestMode	9538	21.95	19.95	33.01	PASS
Band2	Voice	9538	21.78	19.78	33.01	PASS
Band4	Voice	1312	21.52	19.52	30.00	PASS
Band4	TestMode	1312	21.63	19.63	30.00	PASS
Band4	Voice	1413	21.62	19.62	30.00	PASS
Band4	TestMode	1413	21.81	19.81	30.00	PASS
Band4	TestMode	1513	21.63	19.63	30.00	PASS
Band4	Voice	1513	21.53	19.53	30.00	PASS
Band5	Voice	4132	24.05	16.9	38.45	PASS
Band5	TestMode	4132	24.16	17.01	38.45	PASS
Band5	TestMode	4183	24.21	17.06	38.45	PASS
Band5	Voice	4183	24.01	16.86	38.45	PASS
Band5	Voice	4233	24.26	17.11	38.45	PASS
Band5	TestMode	4233	24.29	17.14	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.74	19.74	33.01	PASS
Band2	9262	2	21.44	19.44	33.01	PASS
Band2	9262	3	21.27	19.27	33.01	PASS
Band2	9262	4	21.42	19.42	33.01	PASS
Band2	9400	1	22.09	20.09	33.01	PASS
Band2	9400	2	21.65	19.65	33.01	PASS
Band2	9400	3	21.6	19.6	33.01	PASS
Band2	9400	4	21.85	19.85	33.01	PASS
Band2	9538	1	21.78	19.78	33.01	PASS
Band2	9538	2	21.29	19.29	33.01	PASS
Band2	9538	3	21.3	19.3	33.01	PASS
Band2	9538	4	21.41	19.41	33.01	PASS

Band4	1312	1	21.46	19.46	30.00	PASS
Band4	1312	2	21.04	19.04	30.00	PASS
Band4	1312	3	20.92	18.92	30.00	PASS
Band4	1312	4	20.9	18.9	30.00	PASS
Band4	1413	1	21.65	19.65	30.00	PASS
Band4	1413	2	21.06	19.06	30.00	PASS
Band4	1413	3	21.12	19.12	30.00	PASS
Band4	1413	4	21.04	19.04	30.00	PASS
Band4	1513	1	21.47	19.47	30.00	PASS
Band4	1513	2	20.85	18.85	30.00	PASS
Band4	1513	3	20.83	18.83	30.00	PASS
Band4	1513	4	20.8	18.8	30.00	PASS
Band5	4132	1	23.18	16.03	38.5	PASS
Band5	4132	2	22.61	15.46	38.5	PASS
Band5	4132	3	22.66	15.51	38.5	PASS
Band5	4132	4	22.63	15.48	38.5	PASS
Band5	4183	1	23.26	16.11	38.5	PASS
Band5	4183	2	22.72	15.57	38.5	PASS
Band5	4183	3	22.72	15.57	38.5	PASS
Band5	4183	4	22.72	15.57	38.5	PASS
Band5	4233	1	23.33	16.18	38.5	PASS
Band5	4233	2	22.77	15.62	38.5	PASS
Band5	4233	3	22.76	15.61	38.5	PASS
Band5	4233	4	22.78	15.63	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.94	17.94	33.01	PASS
Band2	9262	2	20.44	18.44	33.01	PASS
Band2	9262	3	20.96	18.96	33.01	PASS
Band2	9262	4	19.95	17.95	33.01	PASS
Band2	9262	5	21.96	19.96	33.01	PASS
Band2	9400	1	20.35	18.35	33.01	PASS
Band2	9400	2	20.86	18.86	33.01	PASS
Band2	9400	3	21.37	19.37	33.01	PASS
Band2	9400	4	20.39	18.39	33.01	PASS
Band2	9400	5	22.32	20.32	33.01	PASS
Band2	9538	1	20.08	18.08	33.01	PASS
Band2	9538	2	20.59	18.59	33.01	PASS
Band2	9538	3	21.1	19.1	33.01	PASS

Band2	9538	4	20.12	18.12	33.01	PASS
Band2	9538	5	22.07	20.07	33.01	PASS
Band4	1312	1	19.45	17.45	30.00	PASS
Band4	1312	2	19.92	17.92	30.00	PASS
Band4	1312	3	20.43	18.43	30.00	PASS
Band4	1312	4	19.47	17.47	30.00	PASS
Band4	1312	5	21.48	19.48	30.00	PASS
Band4	1413	1	19.57	17.57	30.00	PASS
Band4	1413	2	20.05	18.05	30.00	PASS
Band4	1413	3	20.6	18.6	30.00	PASS
Band4	1413	4	19.6	17.6	30.00	PASS
Band4	1413	5	21.61	19.61	30.00	PASS
Band4	1513	1	19.39	17.39	30.00	PASS
Band4	1513	2	19.88	17.88	30.00	PASS
Band4	1513	3	20.39	18.39	30.00	PASS
Band4	1513	4	19.4	17.4	30.00	PASS
Band4	1513	5	21.41	19.41	30.00	PASS
Band5	4132	1	21.19	14.04	38.5	PASS
Band5	4132	2	21.72	14.57	38.5	PASS
Band5	4132	3	22.26	15.11	38.5	PASS
Band5	4132	4	21.25	14.1	38.5	PASS
Band5	4132	5	23.19	16.04	38.5	PASS
Band5	4183	1	21.30	14.15	38.5	PASS
Band5	4183	2	21.80	14.65	38.5	PASS
Band5	4183	3	22.32	15.17	38.5	PASS
Band5	4183	4	21.33	14.18	38.5	PASS
Band5	4183	5	23.28	16.13	38.5	PASS
Band5	4233	1	21.37	14.22	38.5	PASS
Band5	4233	2	21.88	14.73	38.5	PASS
Band5	4233	3	22.38	15.23	38.5	PASS
Band5	4233	4	21.41	14.26	38.5	PASS
Band5	4233	5	23.34	16.19	38.5	PASS

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

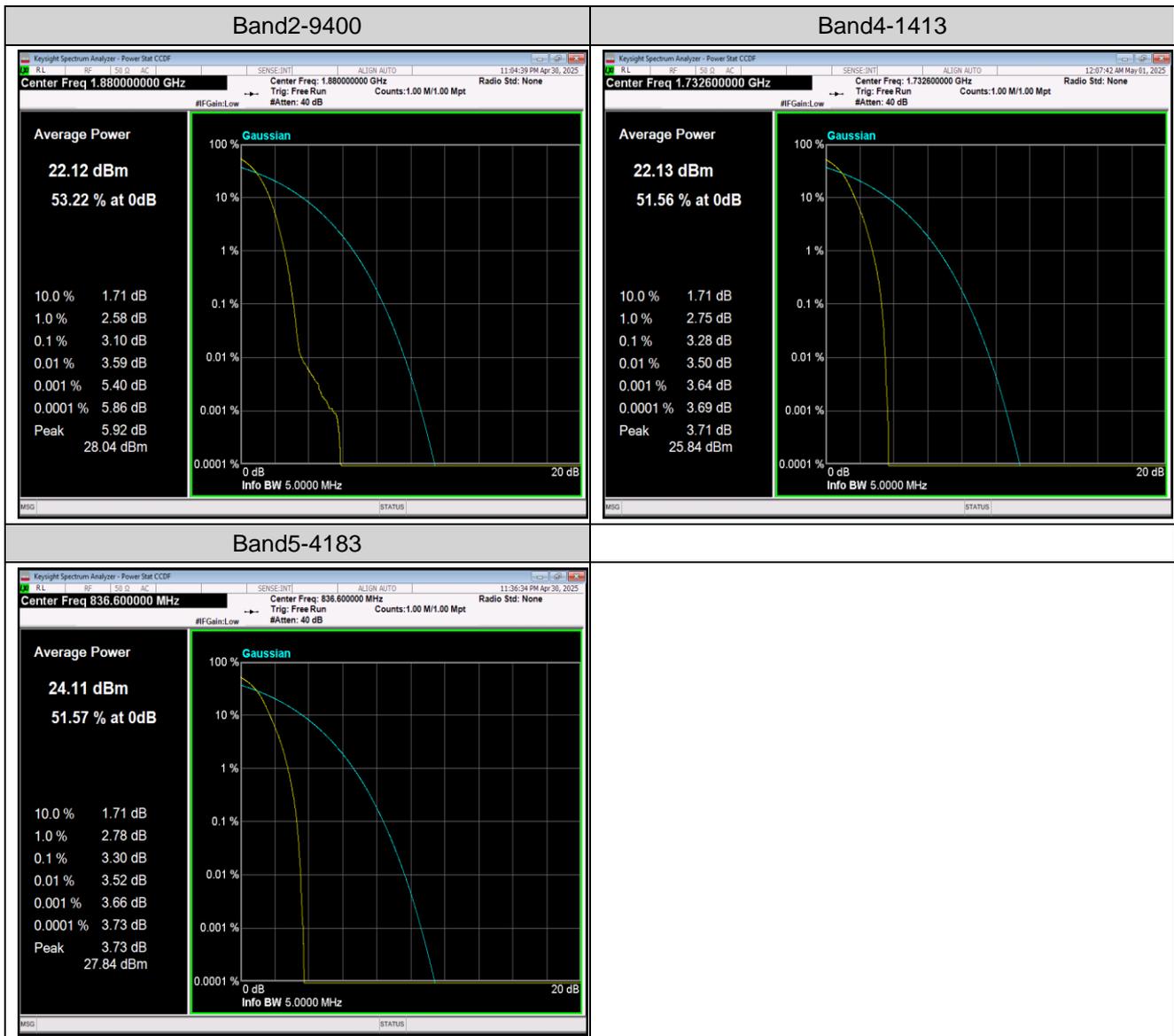
Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.1	13	PASS
Band4	1413	3.28	13	PASS
Band5	4183	3.3	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	4.1674	4.704	---	PASS
Band2	9400	4.1659	4.704	---	PASS
Band2	9538	4.1573	4.698	---	PASS
Band4	1312	4.1744	4.692	---	PASS
Band4	1413	4.1730	4.694	---	PASS
Band4	1513	4.1785	4.687	---	PASS
Band5	4132	4.1691	4.689	---	PASS
Band5	4183	4.1709	4.688	---	PASS
Band5	4233	4.1627	4.682	---	PASS

Test Graphs(WCDMA)





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

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-21.28	-13	PASS
Band2	9538	1910.00	-21.95	-13	PASS
Band4	1312	1710.00	-23.20	-13	PASS
Band4	1513	1755.13	-23.31	-13	PASS
Band5	4132	823.85	-18.31	-13	PASS
Band5	4233	849.12	-19.72	-13	PASS

Test Graphs(WCDMA)

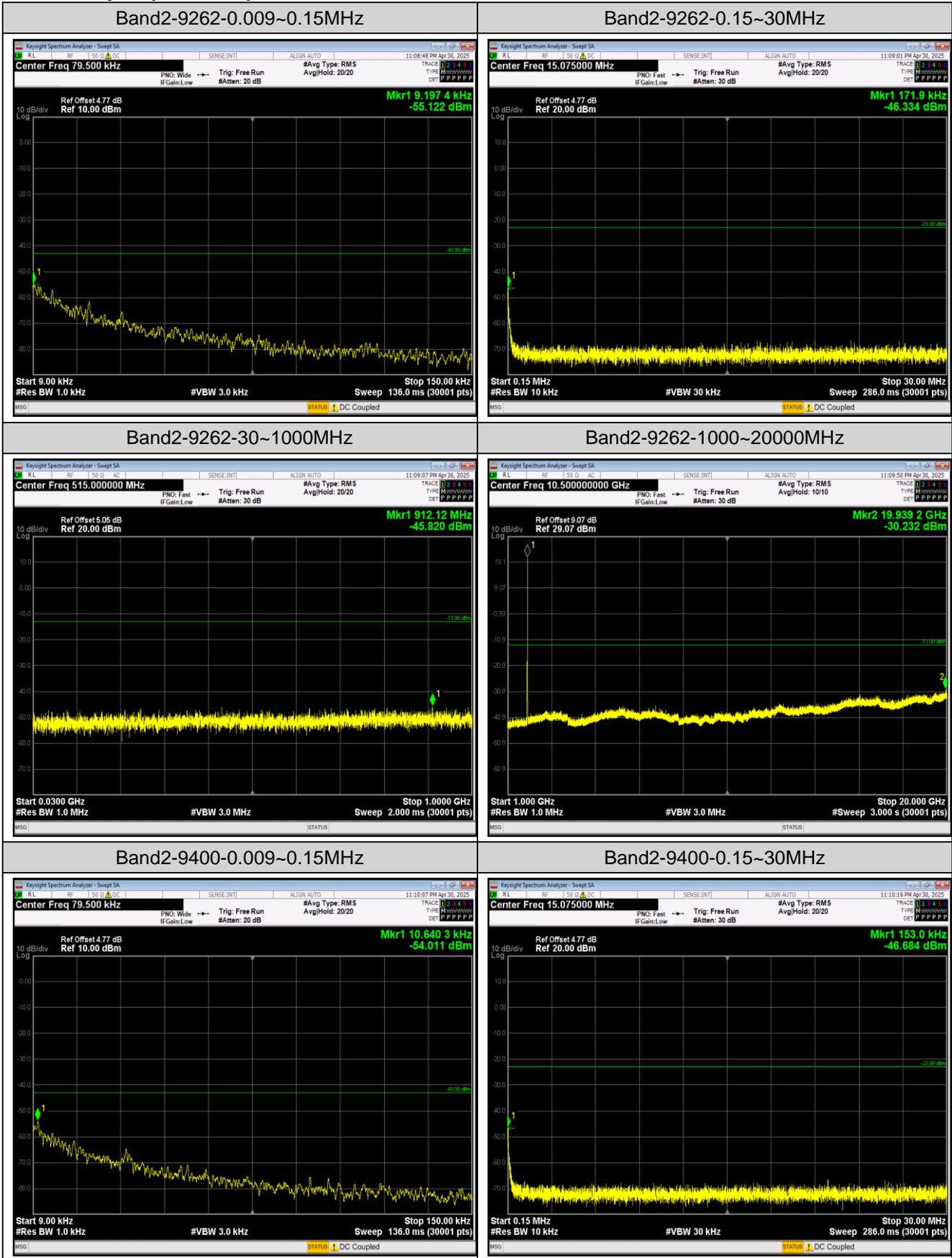


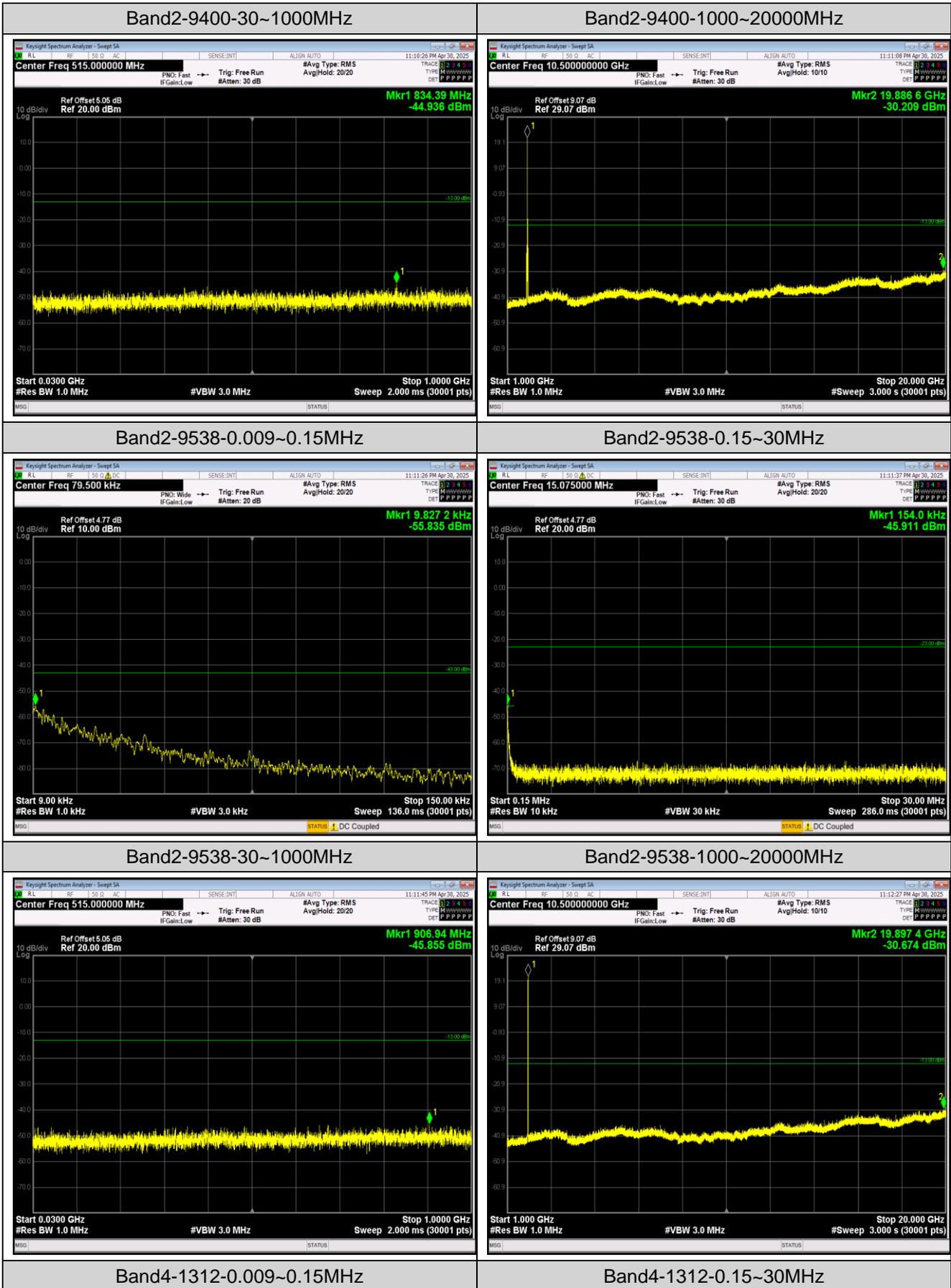
AppendixE:Conducted SpuriousEmission

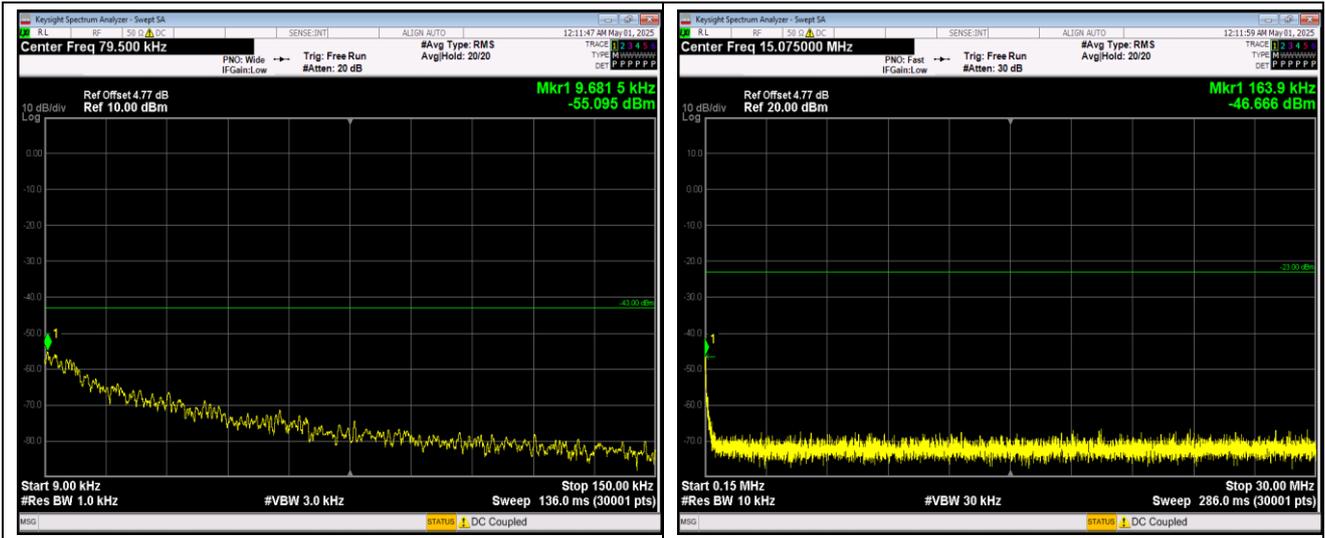
Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.12	-43	PASS
Band2	9262	0.15~30MHz	0.17	-46.33	-23	PASS
Band2	9262	30~1000MHz	912.12	-45.82	-13	PASS
Band2	9262	1000~20000MHz	19939.2	-30.23	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-54.01	-43	PASS
Band2	9400	0.15~30MHz	0.15	-46.68	-23	PASS
Band2	9400	30~1000MHz	834.39	-44.94	-13	PASS
Band2	9400	1000~20000MHz	19886.63	-30.21	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-55.84	-43	PASS
Band2	9538	0.15~30MHz	0.15	-45.91	-23	PASS
Band2	9538	30~1000MHz	906.94	-45.86	-13	PASS
Band2	9538	1000~20000MHz	19897.4	-30.67	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-55.1	-43	PASS
Band4	1312	0.15~30MHz	0.16	-46.67	-23	PASS
Band4	1312	30~1000MHz	835.49	-45.18	-13	PASS
Band4	1312	1000~20000MHz	19968.97	-29.93	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-53.67	-43	PASS
Band4	1413	0.15~30MHz	0.16	-47.8	-23	PASS
Band4	1413	30~1000MHz	897.96	-45.25	-13	PASS
Band4	1413	1000~20000MHz	19982.9	-30.42	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-55.87	-43	PASS
Band4	1513	0.15~30MHz	0.15	-45.2	-23	PASS
Band4	1513	30~1000MHz	987.84	-45.52	-13	PASS
Band4	1513	1000~20000MHz	19912.6	-30.63	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-54.87	-33	PASS
Band5	4132	0.15~30MHz	0.15	-47.84	-13	PASS
Band5	4132	30~1000MHz	631.4	-54.75	-13	PASS
Band5	4132	1000~10000MHz	7111.3	-36.1	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-54.52	-33	PASS
Band5	4183	0.15~30MHz	0.16	-47.62	-13	PASS
Band5	4183	30~1000MHz	968.9	-54.76	-13	PASS
Band5	4183	1000~10000MHz	5838.7	-36.52	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.96	-33	PASS
Band5	4233	0.15~30MHz	0.15	-45.82	-13	PASS
Band5	4233	30~1000MHz	951.76	-54.64	-13	PASS
Band5	4233	1000~10000MHz	7268.2	-36.84	-13	PASS

Test Graphs(WCDMA)

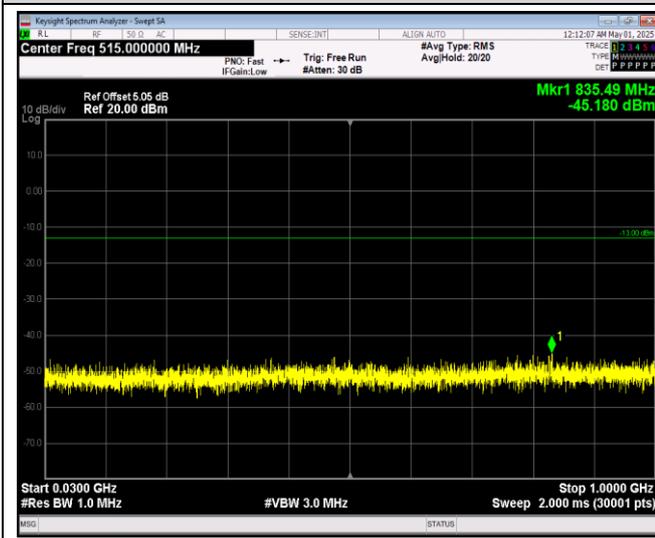






Band4-1312-30~1000MHz

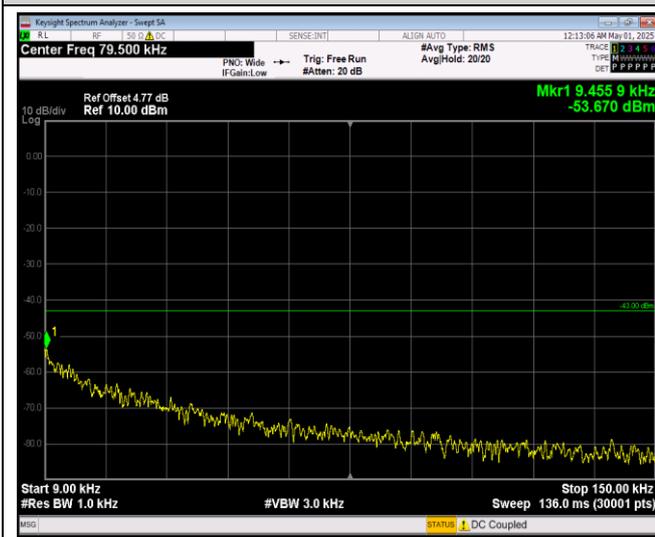
Band4-1312-1000~20000MHz



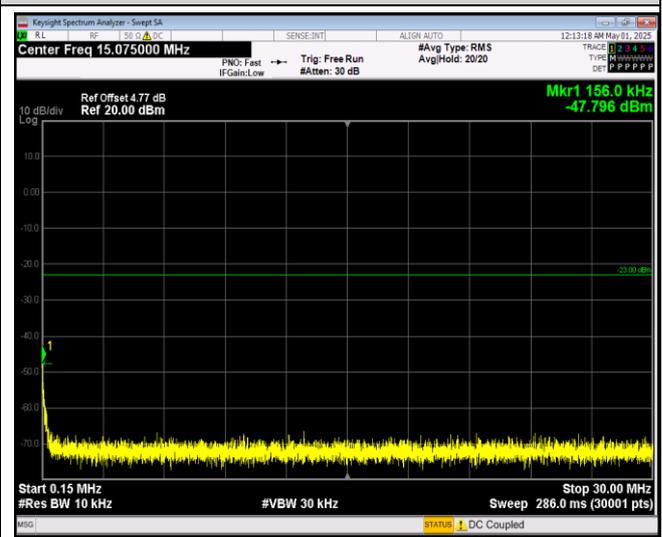
Band4-1413-0.009~0.15MHz



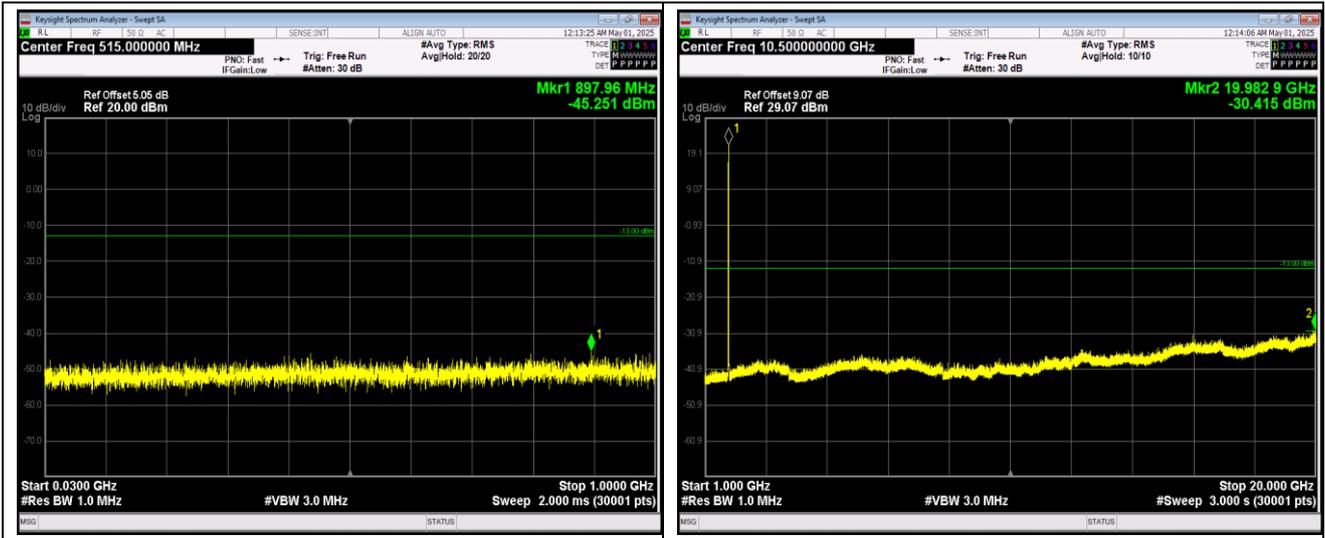
Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz

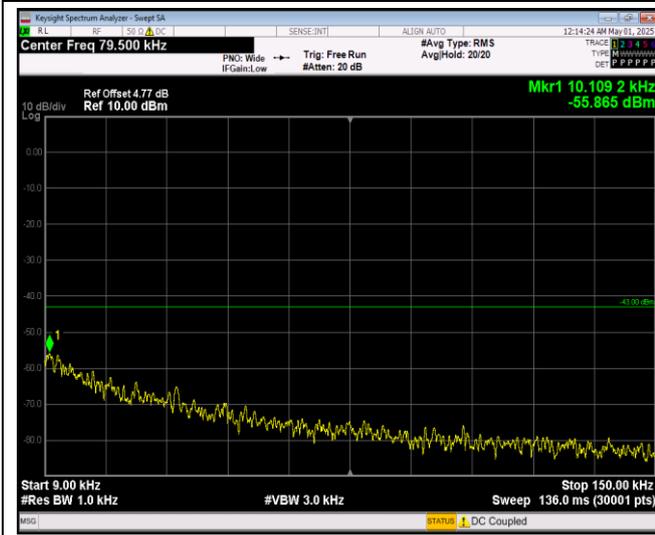


Band4-1413-1000~20000MHz

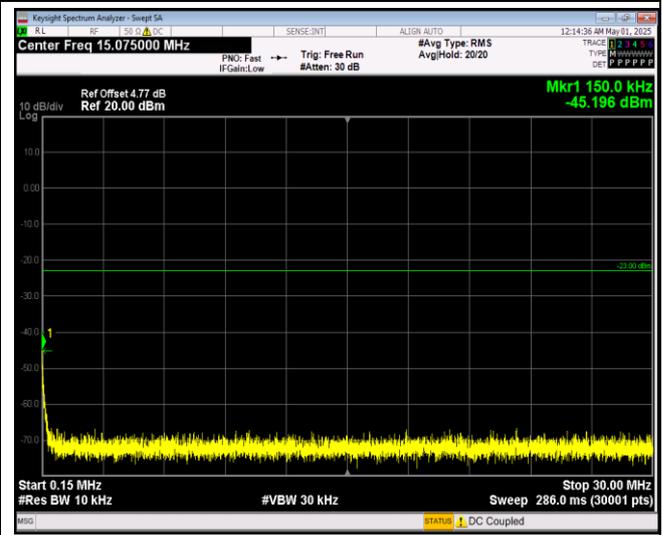


Band4-1513-0.009~0.15MHz

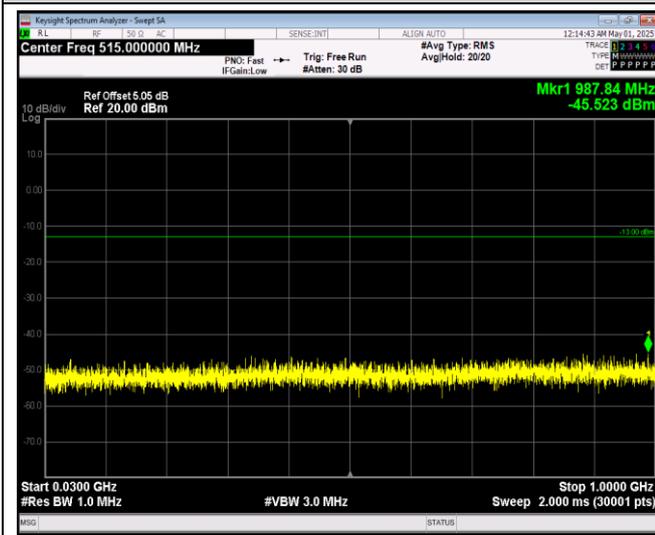
Band4-1513-0.15~30MHz



Band4-1513-30~1000MHz



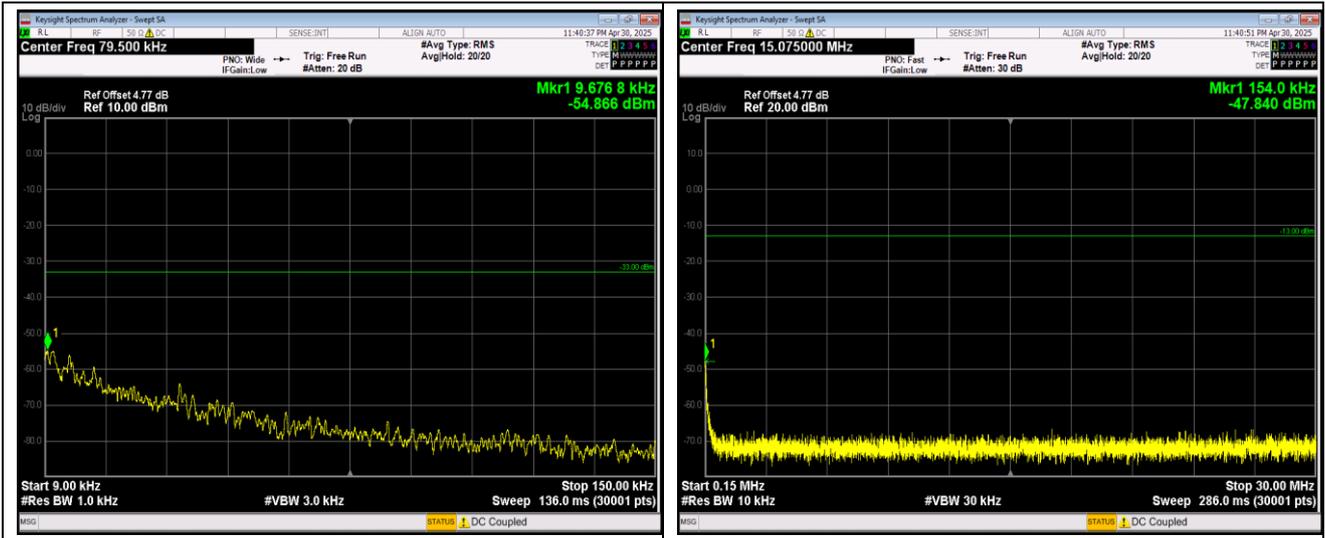
Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

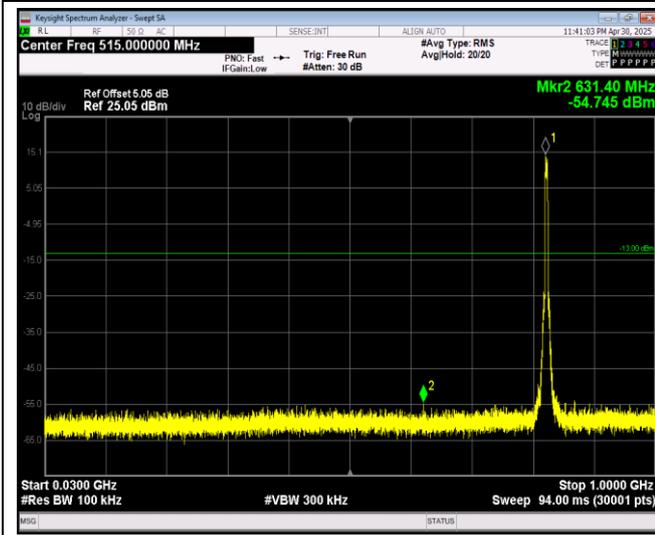


Band5-4132-0.15~30MHz

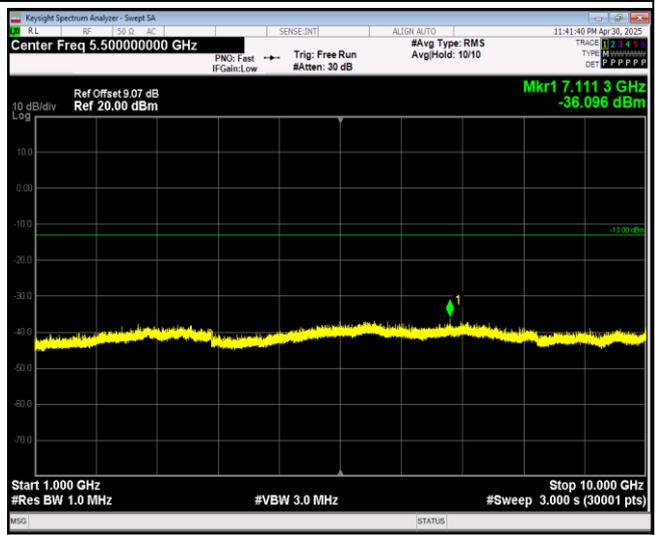


Band5-4132-30~1000MHz

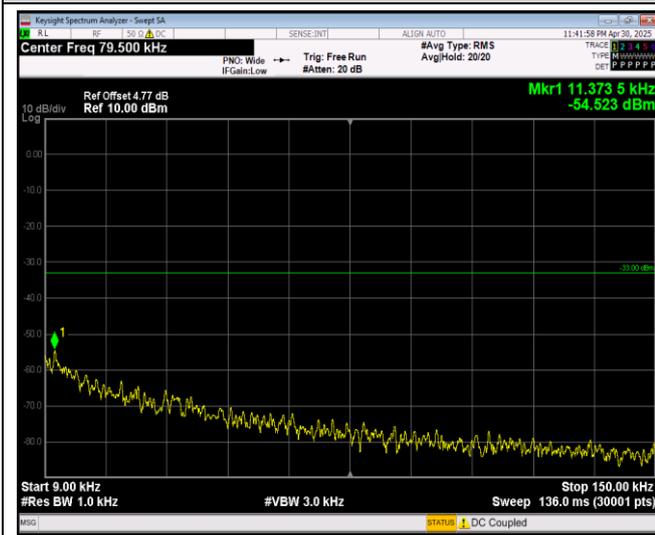
Band5-4132-1000~10000MHz



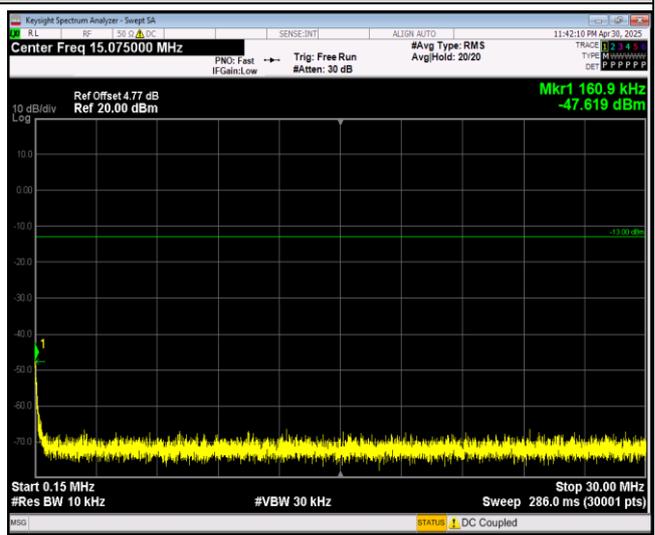
Band5-4183-0.009~0.15MHz



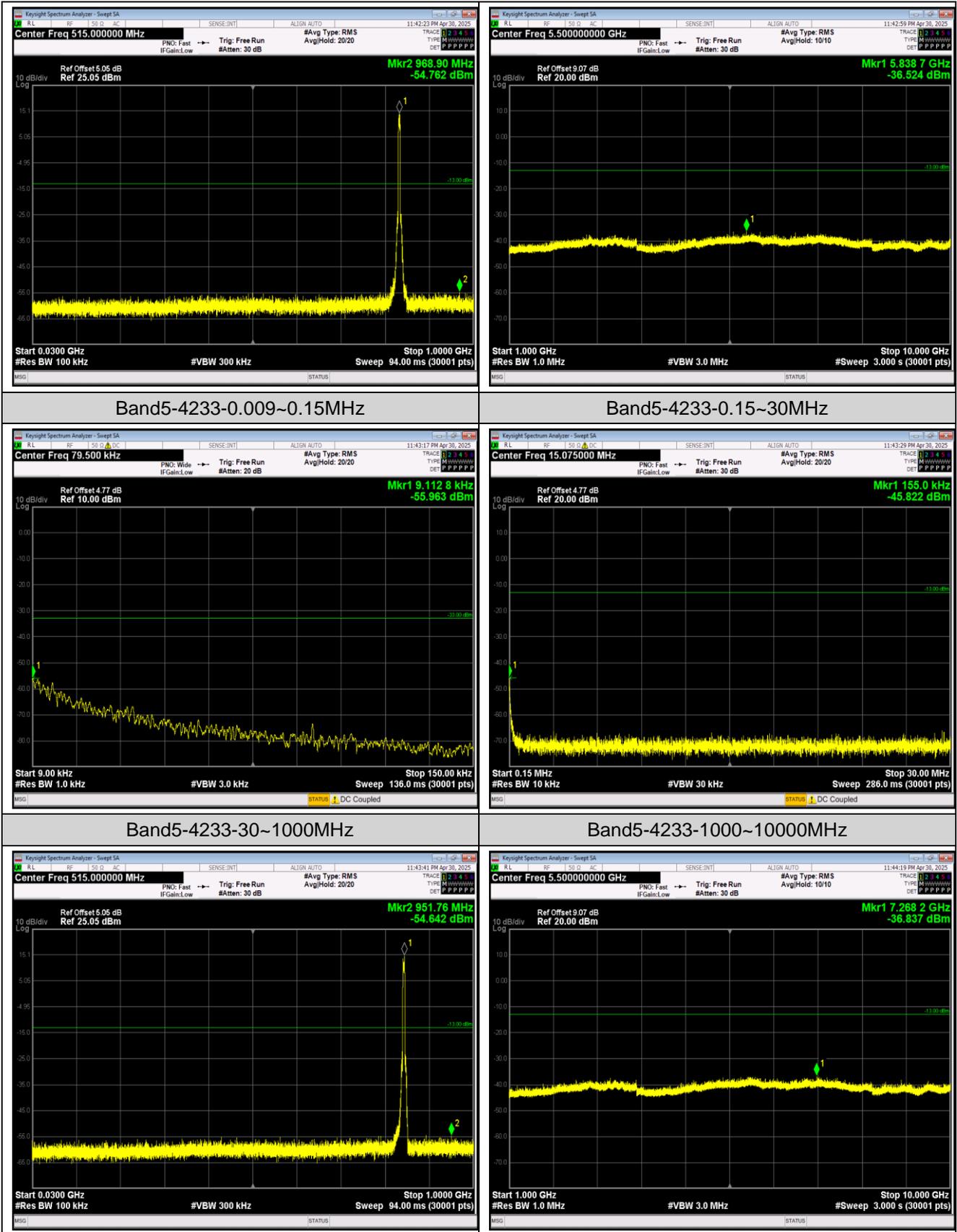
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz



Band5-4183-1000~10000MHz



AppendixF: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		
3.92	-30	-13.15	-0.015718	±2.5	Pass
	-20	-8.31	-0.009933		
	-10	-14.61	-0.017464		
	0	-8.70	-0.010399		
	10	-15.01	-0.017942		
	20	-8.13	-0.009718		
	30	-5.44	-0.006503		
	40	-8.75	-0.010459		
	50	-7.90	-0.009443		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-11.97	-0.014308	±2.5	Pass
	3.92	-11.83	-0.014141		
	4.53	-13.48	-0.016113		
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		
3.92	-30	-15.31	-0.008836	Within authorized band for BAND IV	Pass
	-20	-13.63	-0.007867		
	-10	-13.11	-0.007567		
	0	-11.15	-0.006435		
	10	-15.86	-0.009154		
	20	-13.50	-0.007792		
	30	-13.37	-0.007717		
	40	-12.77	-0.007370		
	50	-12.21	-0.007047		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-12.55	-0.007243	Within authorized band for BAND IV	Pass
	3.92	-15.77	-0.009102		
	4.53	-11.62	-0.006707		
<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		
3.92	-30	-14.62	-0.007777	Within authorized band for BAND II	Pass
	-20	-11.29	-0.006005		
	-10	-10.68	-0.005681		
	0	-10.03	-0.005335		
	10	-10.56	-0.005617		
	20	-10.84	-0.005766		
	30	-10.45	-0.005559		
	40	-11.17	-0.005941		
	50	-12.55	-0.006676		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-12.04	-0.006404	Within authorized band for BAND II	Pass
	3.92	-14.67	-0.007803		
	4.53	-14.26	-0.007585		
<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

