

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	22.94	19.17	33.01	PASS
Band2	TestMode	9262	22.91	19.14	33.01	PASS
Band2	TestMode	9400	23.05	19.28	33.01	PASS
Band2	Voice	9400	23.02	19.25	33.01	PASS
Band2	TestMode	9538	23.06	19.29	33.01	PASS
Band2	Voice	9538	22.97	19.2	33.01	PASS
Band4	Voice	1312	23.66	20.57	30.00	PASS
Band4	TestMode	1312	23.67	20.58	30.00	PASS
Band4	Voice	1413	23.70	20.61	30.00	PASS
Band4	TestMode	1413	23.75	20.66	30.00	PASS
Band4	TestMode	1513	23.99	20.9	30.00	PASS
Band4	Voice	1513	23.98	20.89	30.00	PASS
Band5	Voice	4132	23.24	16.59	38.45	PASS
Band5	TestMode	4132	23.25	16.6	38.45	PASS
Band5	TestMode	4183	23.49	16.84	38.45	PASS
Band5	Voice	4183	23.50	16.85	38.45	PASS
Band5	Voice	4233	23.43	16.78	38.45	PASS
Band5	TestMode	4233	23.46	16.81	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.98	18.21	33.01	PASS
Band2	9262	2	21.41	17.64	33.01	PASS
Band2	9262	3	21.43	17.66	33.01	PASS
Band2	9262	4	21.38	17.61	33.01	PASS
Band2	9400	1	22.05	18.28	33.01	PASS
Band2	9400	2	21.47	17.7	33.01	PASS
Band2	9400	3	21.47	17.7	33.01	PASS
Band2	9400	4	21.45	17.68	33.01	PASS
Band2	9538	1	22.07	18.3	33.01	PASS
Band2	9538	2	21.48	17.71	33.01	PASS
Band2	9538	3	21.48	17.71	33.01	PASS
Band2	9538	4	21.50	17.73	33.01	PASS

Band4	1312	1	22.70	19.61	30.00	PASS
Band4	1312	2	22.16	19.07	30.00	PASS
Band4	1312	3	22.21	19.12	30.00	PASS
Band4	1312	4	22.19	19.1	30.00	PASS
Band4	1413	1	22.74	19.65	30.00	PASS
Band4	1413	2	22.22	19.13	30.00	PASS
Band4	1413	3	22.23	19.14	30.00	PASS
Band4	1413	4	22.19	19.1	30.00	PASS
Band4	1513	1	22.97	19.88	30.00	PASS
Band4	1513	2	22.50	19.41	30.00	PASS
Band4	1513	3	22.50	19.41	30.00	PASS
Band4	1513	4	22.44	19.35	30.00	PASS
Band5	4132	1	22.25	15.6	38.5	PASS
Band5	4132	2	21.70	15.05	38.5	PASS
Band5	4132	3	21.74	15.09	38.5	PASS
Band5	4132	4	21.69	15.04	38.5	PASS
Band5	4183	1	22.52	15.87	38.5	PASS
Band5	4183	2	22.00	15.35	38.5	PASS
Band5	4183	3	22.00	15.35	38.5	PASS
Band5	4183	4	21.97	15.32	38.5	PASS
Band5	4233	1	22.50	15.85	38.5	PASS
Band5	4233	2	21.97	15.32	38.5	PASS
Band5	4233	3	21.97	15.32	38.5	PASS
Band5	4233	4	21.97	15.32	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.95	17.18	33.01	PASS
Band2	9262	2	21.43	17.66	33.01	PASS
Band2	9262	3	21.94	18.17	33.01	PASS
Band2	9262	4	20.96	17.19	33.01	PASS
Band2	9262	5	22.94	19.17	33.01	PASS
Band2	9400	1	21.00	17.23	33.01	PASS
Band2	9400	2	21.49	17.72	33.01	PASS
Band2	9400	3	22.01	18.24	33.01	PASS
Band2	9400	4	21.07	17.3	33.01	PASS
Band2	9400	5	23.01	19.24	33.01	PASS
Band2	9538	1	21.02	17.25	33.01	PASS
Band2	9538	2	21.55	17.78	33.01	PASS
Band2	9538	3	22.01	18.24	33.01	PASS

Band2	9538	4	21.02	17.25	33.01	PASS
Band2	9538	5	23.00	19.23	33.01	PASS
Band4	1312	1	21.74	18.65	30.00	PASS
Band4	1312	2	22.19	19.1	30.00	PASS
Band4	1312	3	22.69	19.6	30.00	PASS
Band4	1312	4	21.73	18.64	30.00	PASS
Band4	1312	5	23.73	20.64	30.00	PASS
Band4	1413	1	21.77	18.68	30.00	PASS
Band4	1413	2	22.24	19.15	30.00	PASS
Band4	1413	3	22.72	19.63	30.00	PASS
Band4	1413	4	21.78	18.69	30.00	PASS
Band4	1413	5	23.76	20.67	30.00	PASS
Band4	1513	1	22.04	18.95	30.00	PASS
Band4	1513	2	22.53	19.44	30.00	PASS
Band4	1513	3	22.96	19.87	30.00	PASS
Band4	1513	4	22.06	18.97	30.00	PASS
Band4	1513	5	24.03	20.94	30.00	PASS
Band5	4132	1	21.27	14.62	38.5	PASS
Band5	4132	2	21.77	15.12	38.5	PASS
Band5	4132	3	22.28	15.63	38.5	PASS
Band5	4132	4	21.28	14.63	38.5	PASS
Band5	4132	5	23.29	16.64	38.5	PASS
Band5	4183	1	21.58	14.93	38.5	PASS
Band5	4183	2	22.03	15.38	38.5	PASS
Band5	4183	3	22.55	15.9	38.5	PASS
Band5	4183	4	21.59	14.94	38.5	PASS
Band5	4183	5	23.57	16.92	38.5	PASS
Band5	4233	1	21.51	14.86	38.5	PASS
Band5	4233	2	22.03	15.38	38.5	PASS
Band5	4233	3	22.51	15.86	38.5	PASS
Band5	4233	4	21.57	14.92	38.5	PASS
Band5	4233	5	23.55	16.9	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)

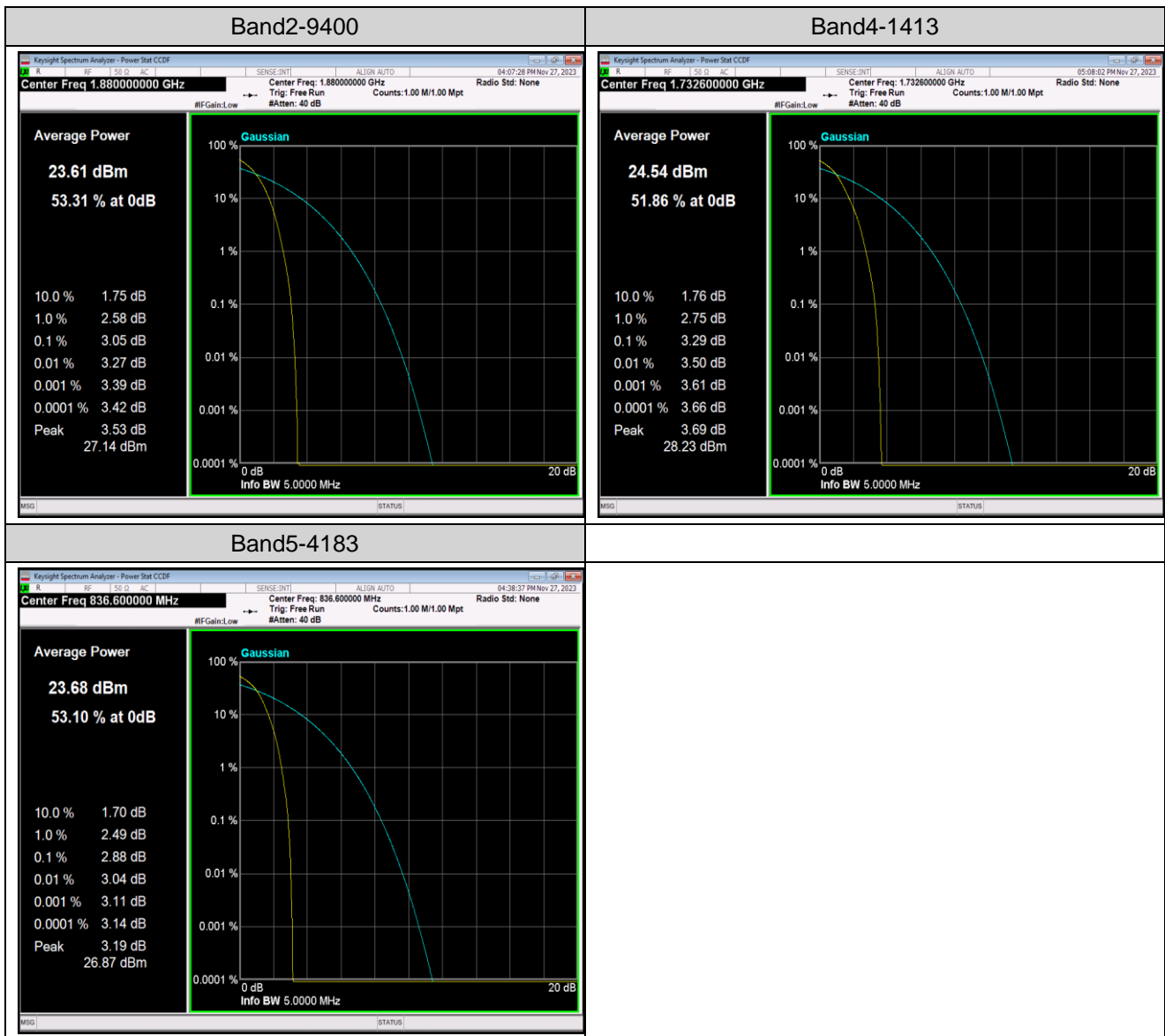
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.05	13	PASS
Band4	1413	3.29	13	PASS
Band5	4183	2.88	13	PASS

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

Test Graphs(WCDMA)

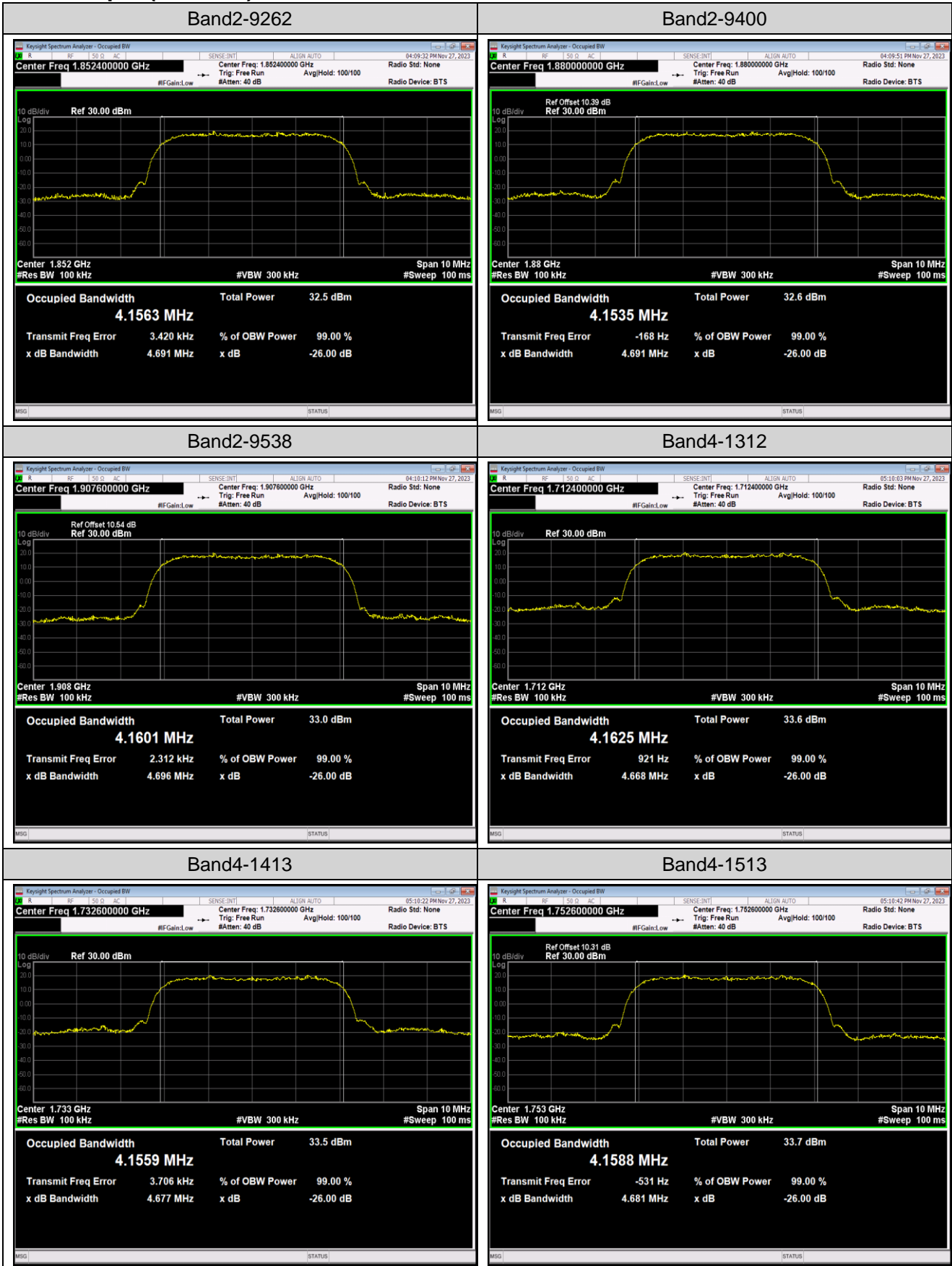


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1563	4.691	---	PASS
Band2	9400	4.1535	4.691	---	PASS
Band2	9538	4.1601	4.696	---	PASS
Band4	1312	4.1625	4.668	---	PASS
Band4	1413	4.1559	4.677	---	PASS
Band4	1513	4.1588	4.681	---	PASS
Band5	4132	4.1600	4.687	---	PASS
Band5	4183	4.1638	4.695	---	PASS
Band5	4233	4.1658	4.715	---	PASS

Test Graphs(WCDMA)



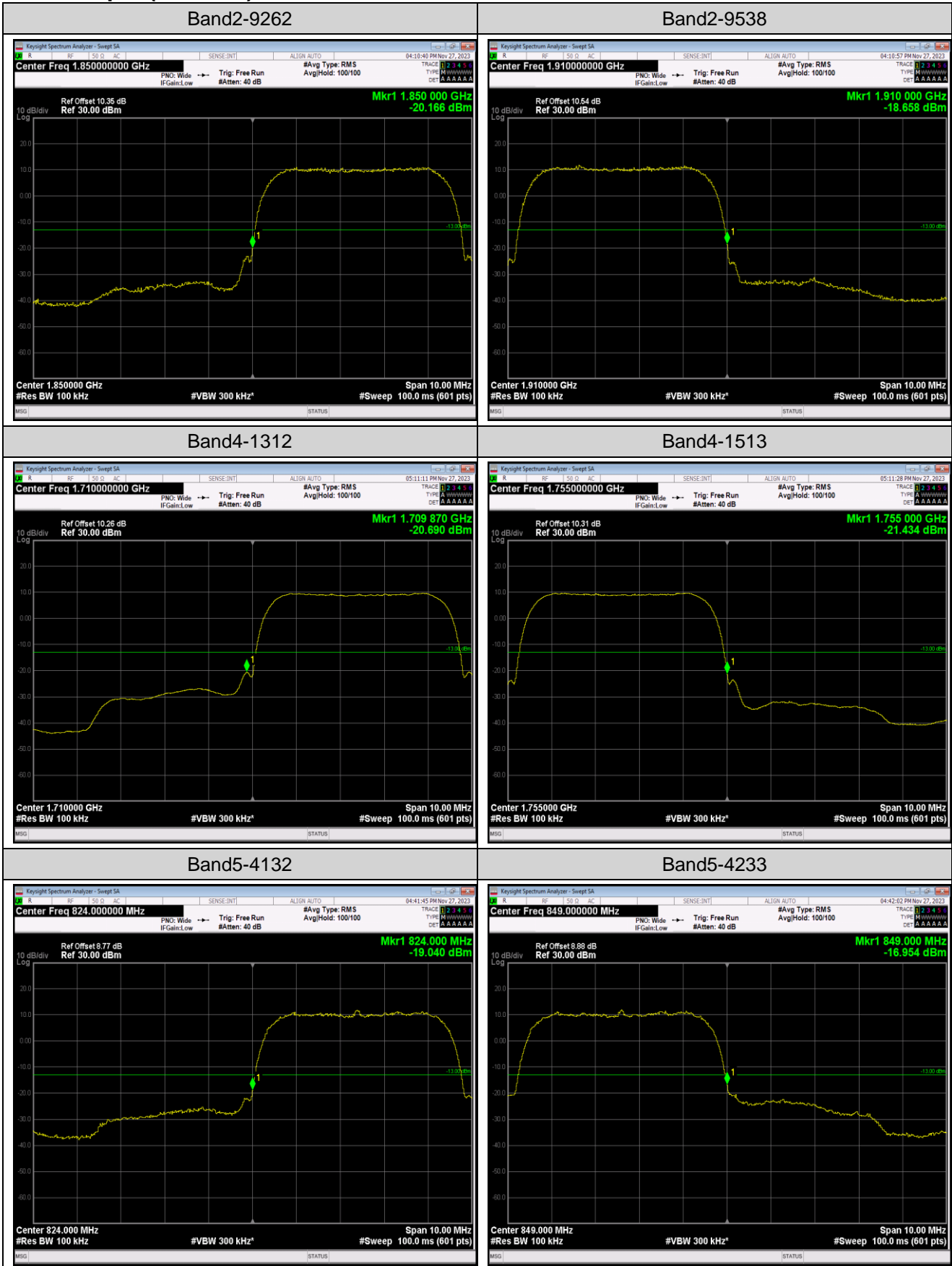


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.17	-13	PASS
Band2	9538	1910.00	-18.66	-13	PASS
Band4	1312	1709.87	-20.69	-13	PASS
Band4	1513	1755.00	-21.43	-13	PASS
Band5	4132	824.00	-19.04	-13	PASS
Band5	4233	849.00	-16.95	-13	PASS

Test Graphs(WCDMA)

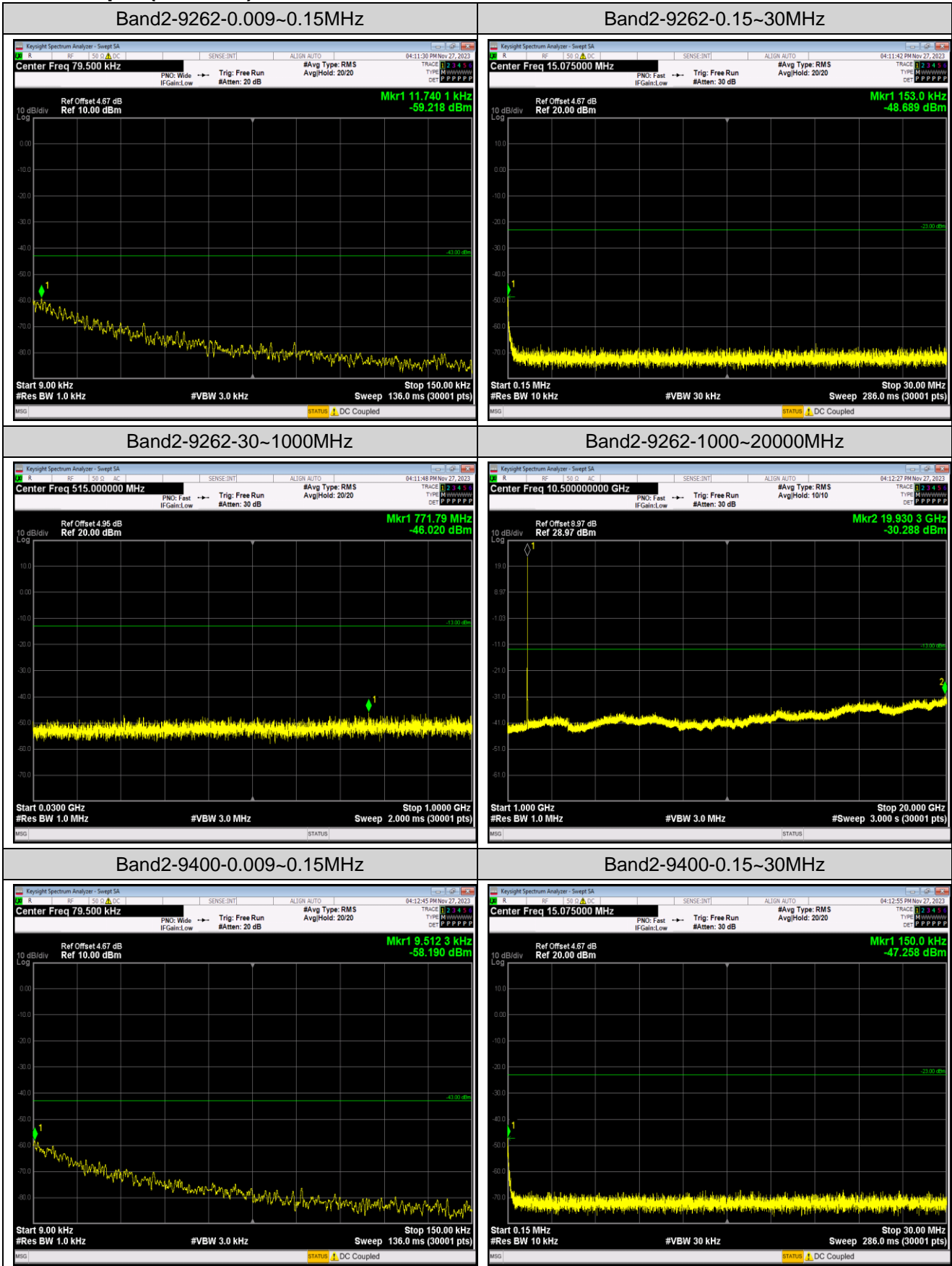


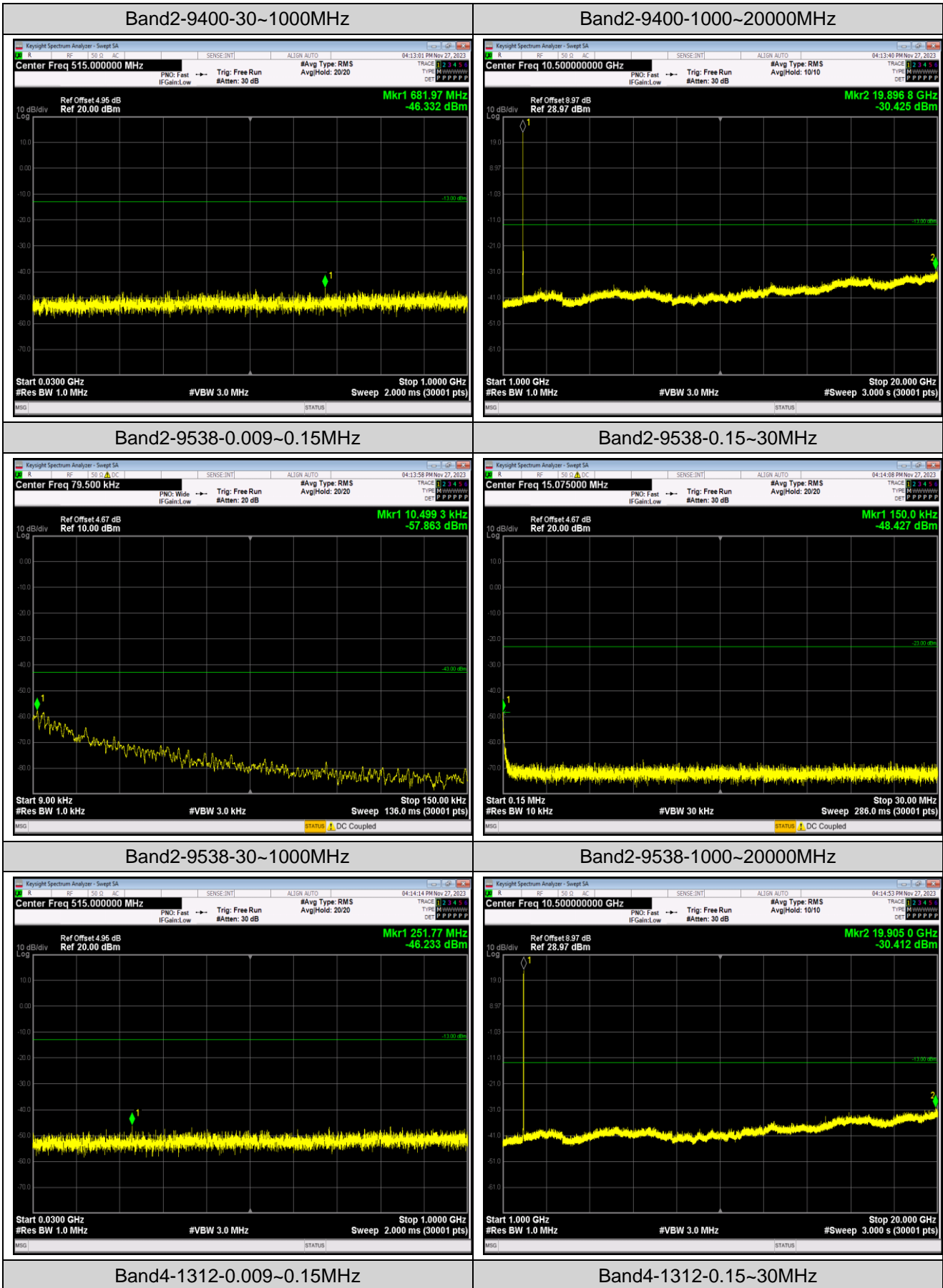
Appendix E: Conducted Spurious Emission

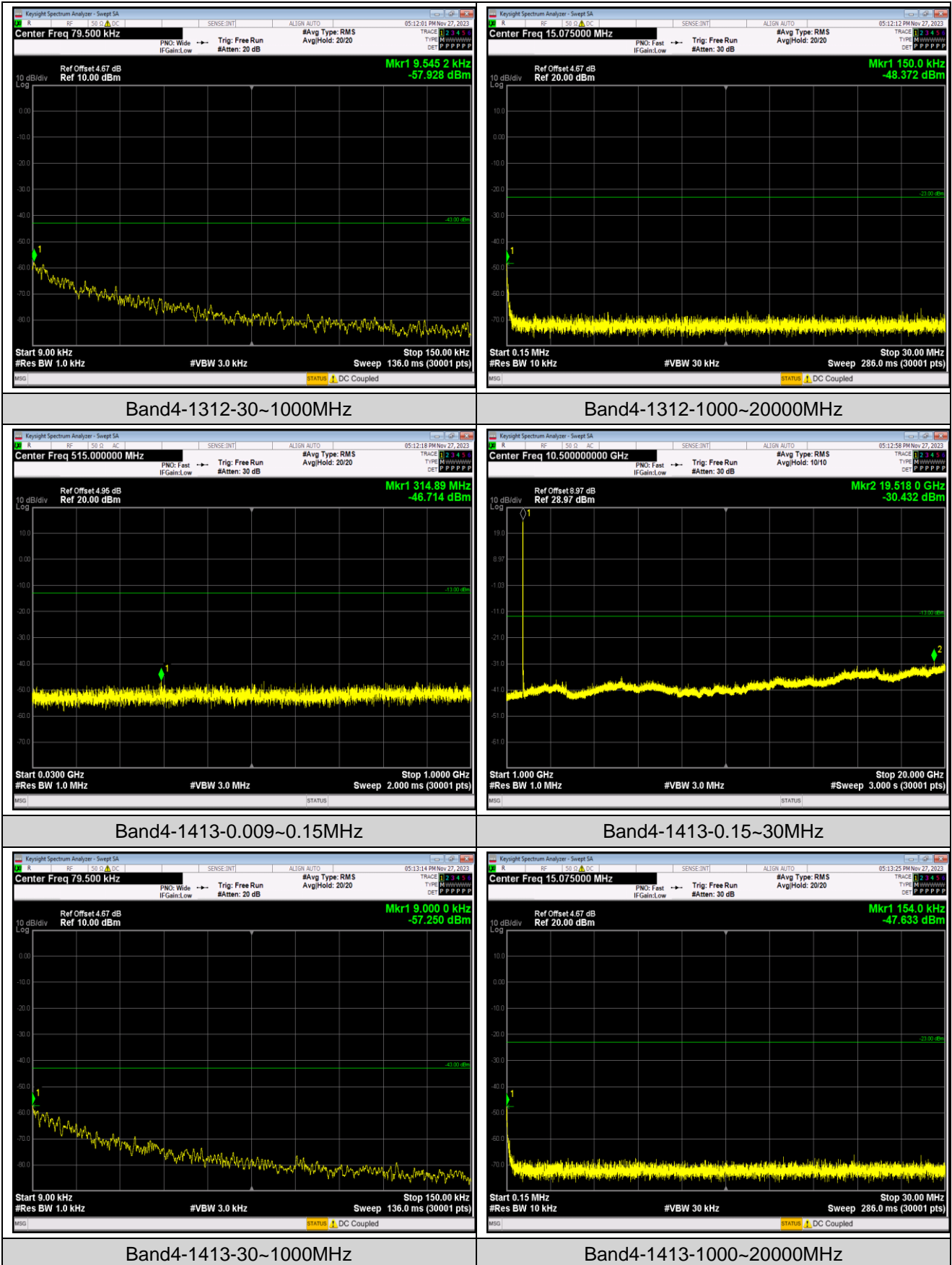
Test Result (WCDMA)

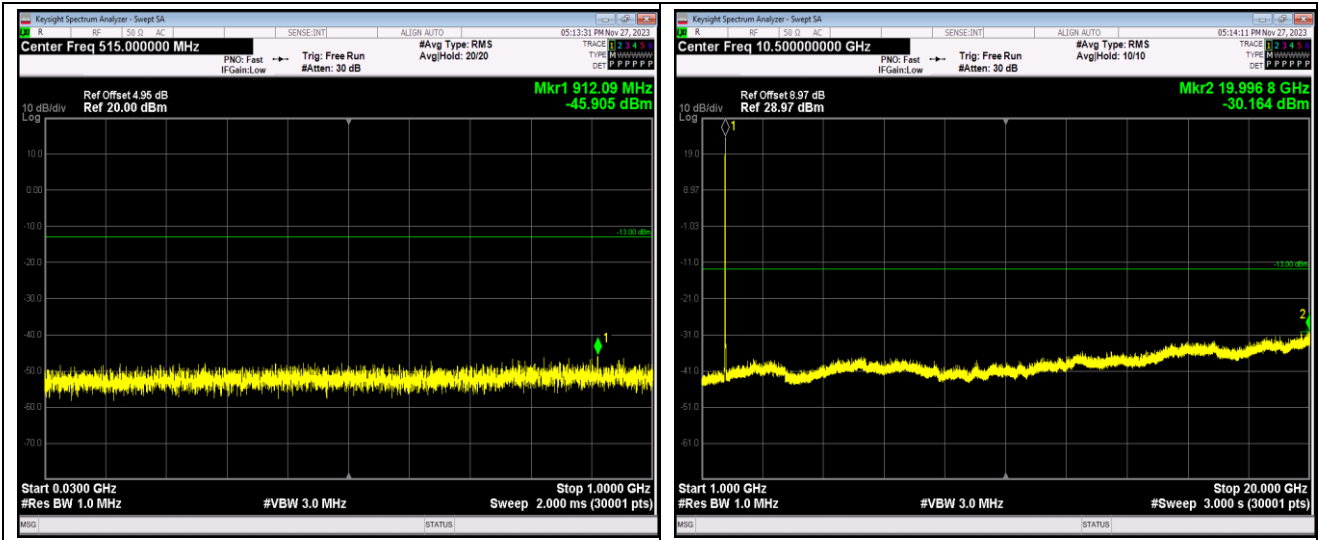
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-59.22	-43	PASS
Band2	9262	0.15~30MHz	0.15	-48.69	-23	PASS
Band2	9262	30~1000MHz	771.79	-46.02	-13	PASS
Band2	9262	1000~20000MHz	19930.33	-30.29	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-58.19	-43	PASS
Band2	9400	0.15~30MHz	0.15	-47.26	-23	PASS
Band2	9400	30~1000MHz	681.97	-46.33	-13	PASS
Band2	9400	1000~20000MHz	19896.77	-30.43	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-57.86	-43	PASS
Band2	9538	0.15~30MHz	0.15	-48.43	-23	PASS
Band2	9538	30~1000MHz	251.77	-46.23	-13	PASS
Band2	9538	1000~20000MHz	19905	-30.41	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-57.93	-43	PASS
Band4	1312	0.15~30MHz	0.15	-48.37	-23	PASS
Band4	1312	30~1000MHz	314.89	-46.71	-13	PASS
Band4	1312	1000~20000MHz	19518.03	-30.43	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-57.25	-43	PASS
Band4	1413	0.15~30MHz	0.15	-47.63	-23	PASS
Band4	1413	30~1000MHz	912.09	-45.91	-13	PASS
Band4	1413	1000~20000MHz	19996.83	-30.16	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-56.75	-43	PASS
Band4	1513	0.15~30MHz	0.15	-49.84	-23	PASS
Band4	1513	30~1000MHz	556.71	-46.42	-13	PASS
Band4	1513	1000~20000MHz	19913.23	-30.65	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-57.23	-33	PASS
Band5	4132	0.15~30MHz	0.15	-48.16	-13	PASS
Band5	4132	30~1000MHz	966.24	-54.98	-13	PASS
Band5	4132	1000~10000MHz	5809.9	-36.04	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-57.51	-33	PASS
Band5	4183	0.15~30MHz	0.15	-46.26	-13	PASS
Band5	4183	30~1000MHz	980.76	-55.34	-13	PASS
Band5	4183	1000~10000MHz	7087.9	-36.79	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-55.4	-33	PASS
Band5	4233	0.15~30MHz	0.16	-47.63	-13	PASS
Band5	4233	30~1000MHz	726.52	-56	-13	PASS
Band5	4233	1000~10000MHz	5899.6	-36.73	-13	PASS

Test Graphs(WCDMA)



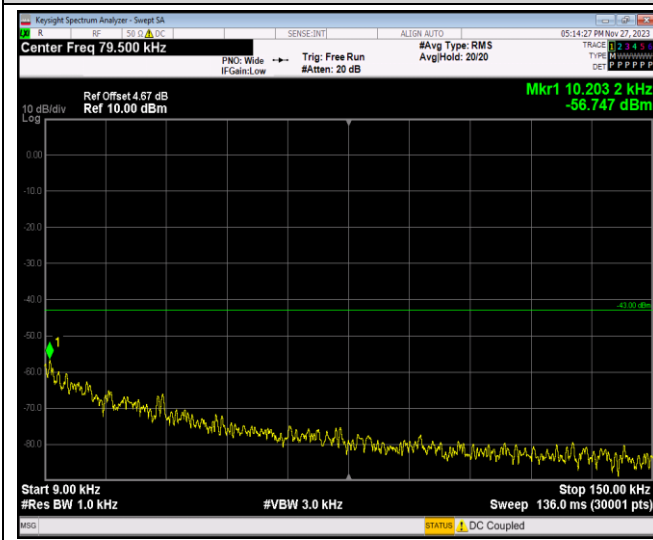




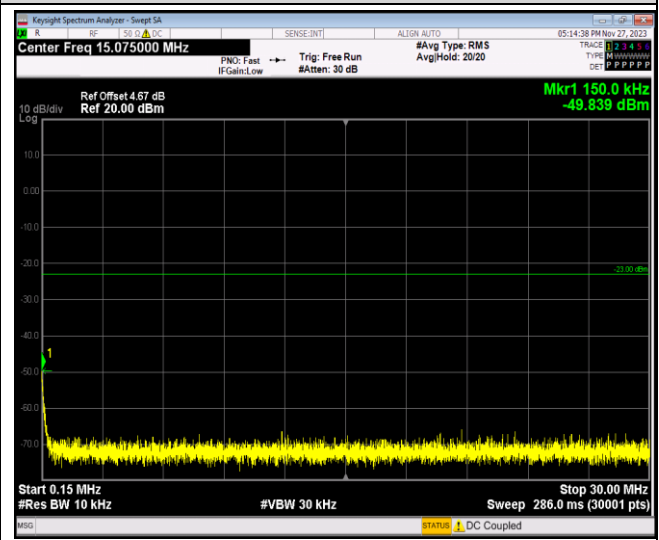


Band4-1513-0.009~0.15MHz

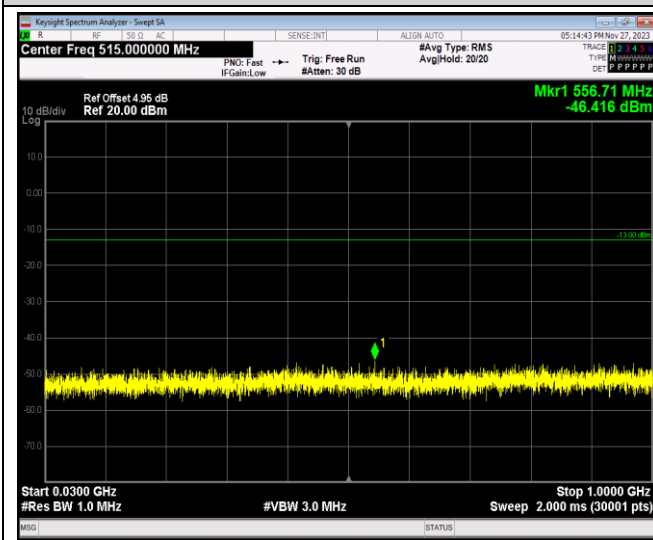
Band4-1513-0.15~30MHz



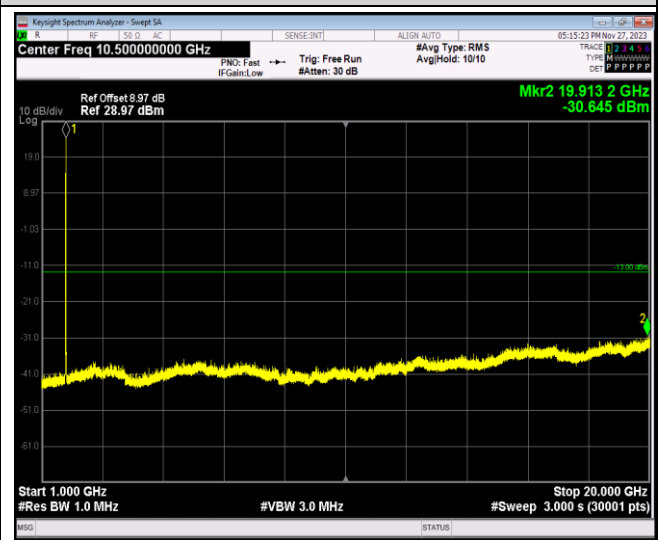
Band4-1513-30~1000MHz



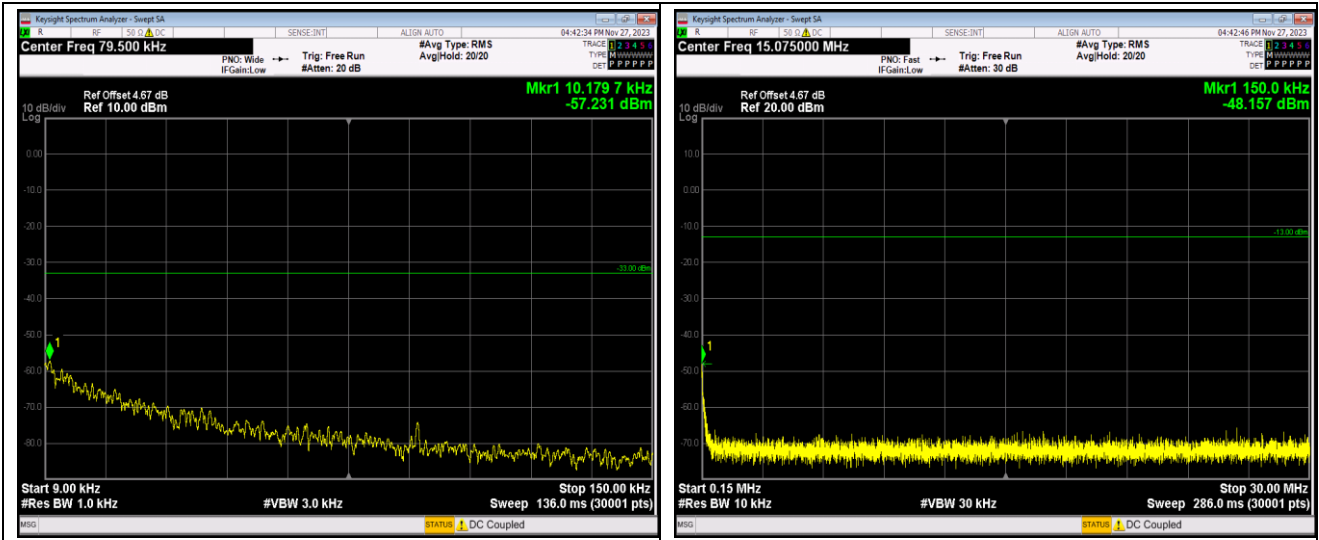
Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

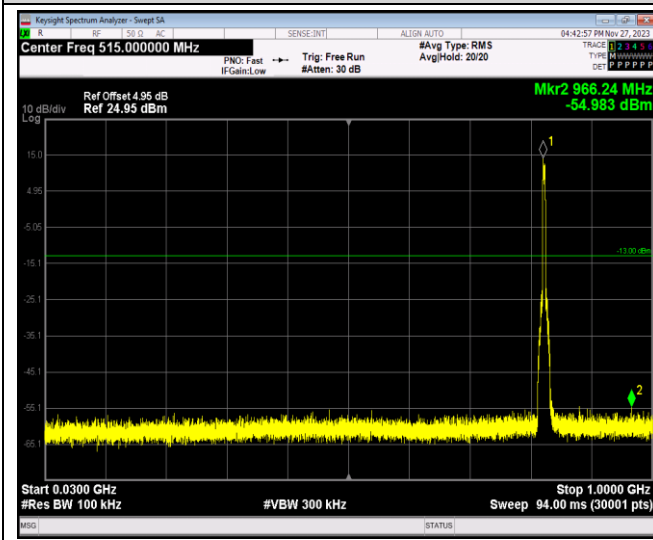


Band5-4132-0.15~30MHz

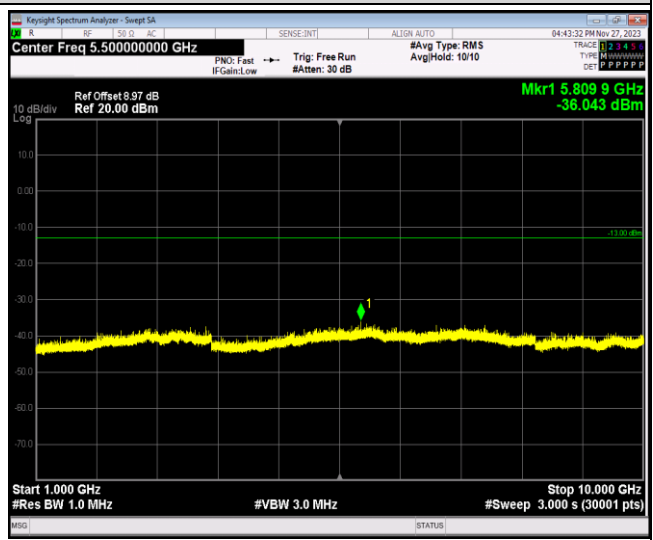


Band5-4132-30~1000MHz

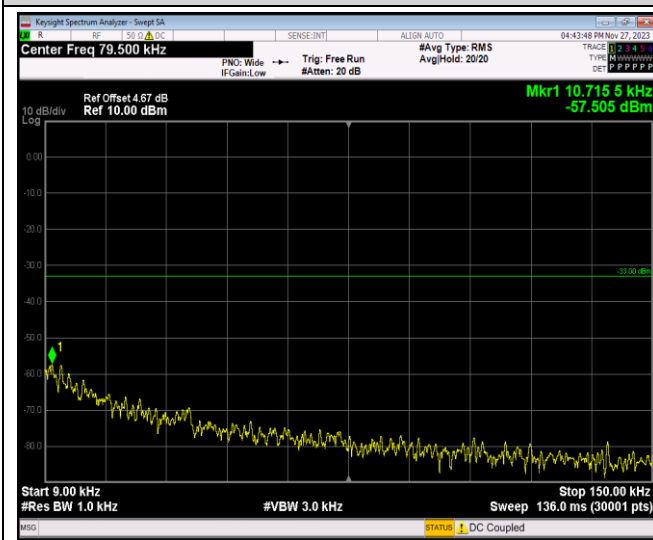
Band5-4132-1000~10000MHz



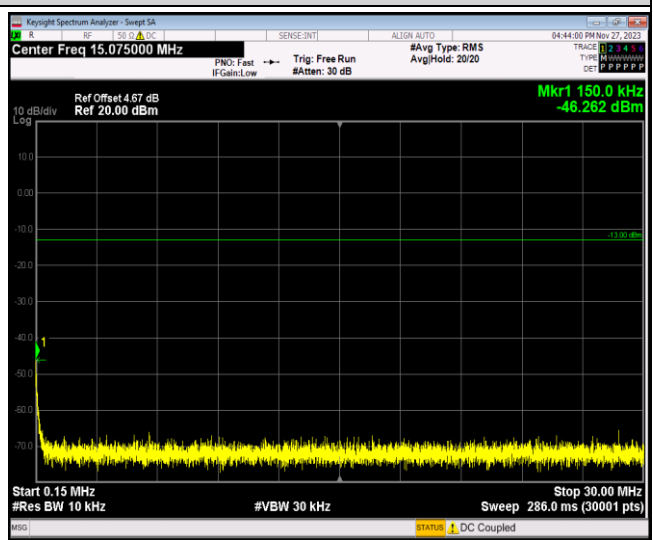
Band5-4183-0.009~0.15MHz



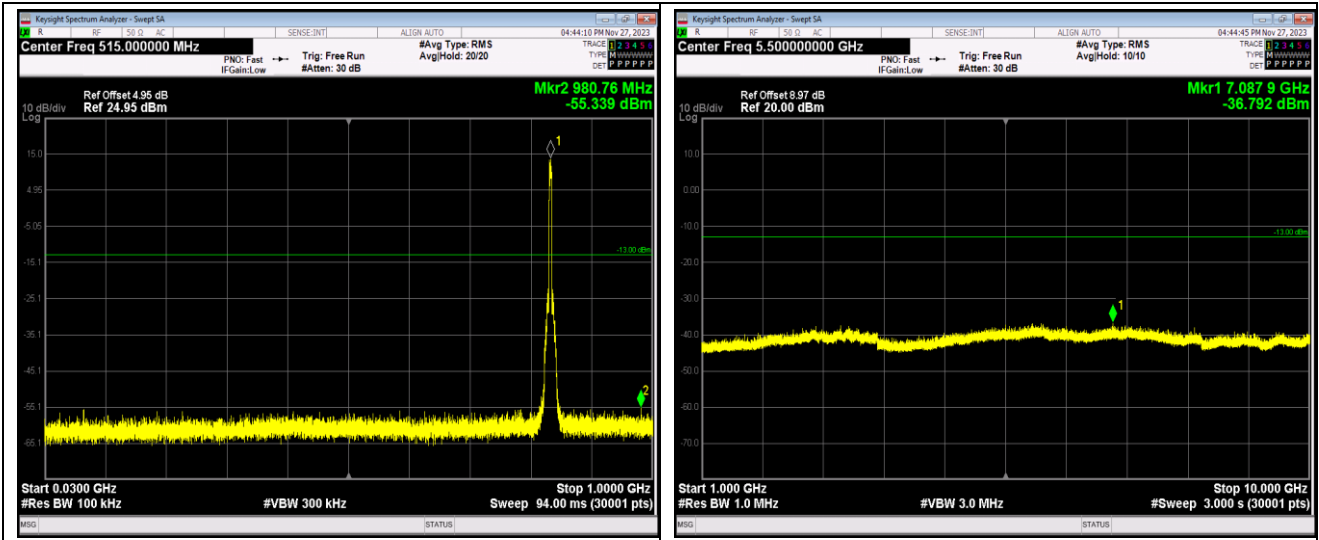
Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz

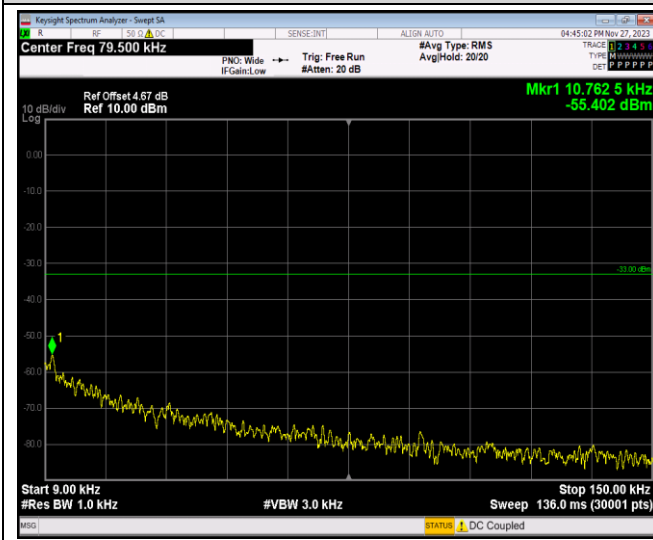


Band5-4183-1000~10000MHz

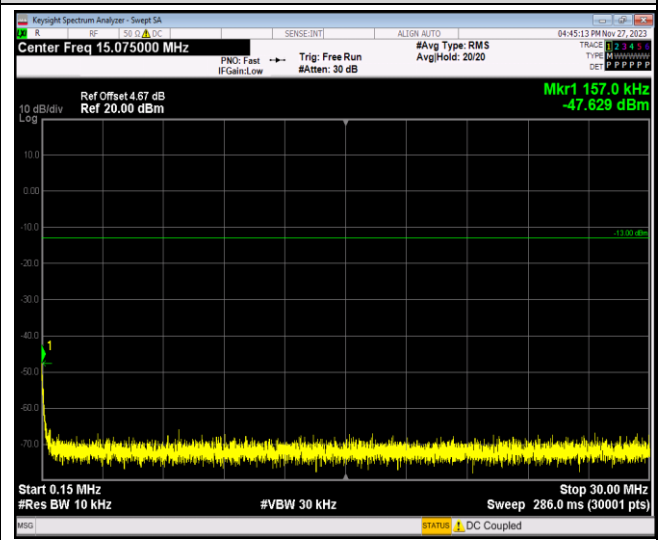


Band5-4233-0.009~0.15MHz

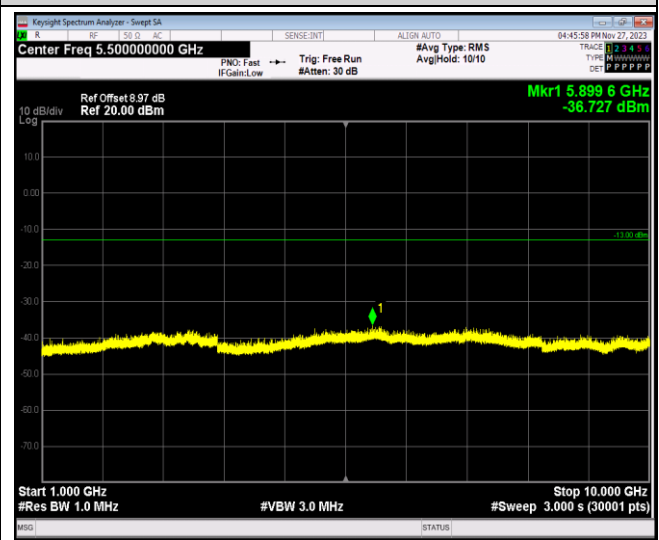
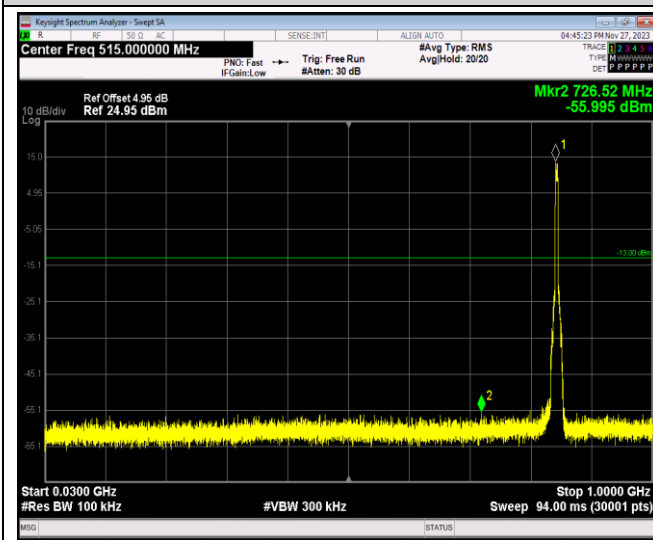
Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz



Appendix F: Frequency Stability

Test Result

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		
3.91	-30	-2.45	-0.002929	±2.5	Pass
	-20	-4.61	-0.005510		
	-10	-2.89	-0.003454		
	0	-3.83	-0.004578		
	10	-4.76	-0.005690		
	20	-3.57	-0.004267		
	30	-3.83	-0.004578		
	40	-2.47	-0.002952		
	50	-3.24	-0.003873		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-2.48	-0.002964	±2.5	Pass
	3.91	-4.55	-0.005439		
	4.50	-4.65	-0.005558		
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		
3.91	-30	-4.31	-0.002488	Within authorized band for BAND IV	Pass
	-20	-6.83	-0.003942		
	-10	-4.33	-0.002499		
	0	-2.93	-0.001691		
	10	-6.52	-0.003763		
	20	-5.21	-0.003007		
	30	-4.74	-0.002736		
	40	-5.71	-0.003296		
	50	-5.28	-0.003047		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-7.65	-0.004415	Within authorized band for BAND IV	Pass
	3.91	-5.26	-0.003036		
	4.50	-4.74	-0.002736		
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		
3.91	-30	-3.89	-0.002069	Within authorized band for BAND II	Pass
	-20	0.88	0.000468		
	-10	-0.49	-0.000261		
	0	0.02	0.000011		
	10	-1.85	-0.000984		
	20	-2.90	-0.001543		
	30	-4.19	-0.002229		
	40	-3.42	-0.001819		
	50	0.21	0.000112		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-3.17	-0.001686	Within authorized band for BAND II	Pass
	3.91	-1.85	-0.000984		
	4.50	-3.40	-0.001809		
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

