

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	22.93	18.93	33.01	PASS
Band2	TestMode	9262	23.11	19.11	33.01	PASS
Band2	TestMode	9400	23.20	19.2	33.01	PASS
Band2	Voice	9400	23.02	19.02	33.01	PASS
Band2	TestMode	9538	23.51	19.51	33.01	PASS
Band2	Voice	9538	23.43	19.43	33.01	PASS
Band4	Voice	1312	21.89	17.89	30.00	PASS
Band4	TestMode	1312	22.00	18	30.00	PASS
Band4	Voice	1413	22.13	18.13	30.00	PASS
Band4	TestMode	1413	22.21	18.21	30.00	PASS
Band4	TestMode	1513	22.14	18.14	30.00	PASS
Band4	Voice	1513	22.10	18.1	30.00	PASS
Band5	Voice	4132	24.32	16.17	38.45	PASS
Band5	TestMode	4132	24.35	16.2	38.45	PASS
Band5	TestMode	4183	24.41	16.26	38.45	PASS
Band5	Voice	4183	24.36	16.21	38.45	PASS
Band5	Voice	4233	24.42	16.27	38.45	PASS
Band5	TestMode	4233	24.42	16.27	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	23.21	19.21	33.01	PASS
Band2	9262	2	22.83	18.83	33.01	PASS
Band2	9262	3	22.86	18.86	33.01	PASS
Band2	9262	4	22.88	18.88	33.01	PASS
Band2	9400	1	23.10	19.1	33.01	PASS
Band2	9400	2	22.69	18.69	33.01	PASS
Band2	9400	3	22.88	18.88	33.01	PASS
Band2	9400	4	22.80	18.8	33.01	PASS
Band2	9538	1	23.55	19.55	33.01	PASS
Band2	9538	2	23.07	19.07	33.01	PASS
Band2	9538	3	23.19	19.19	33.01	PASS
Band2	9538	4	23.16	19.16	33.01	PASS

Band4	1312	1	22.02	18.02	30.00	PASS
Band4	1312	2	21.43	17.43	30.00	PASS
Band4	1312	3	21.45	17.45	30.00	PASS
Band4	1312	4	21.40	17.4	30.00	PASS
Band4	1413	1	22.23	18.23	30.00	PASS
Band4	1413	2	21.73	17.73	30.00	PASS
Band4	1413	3	21.69	17.69	30.00	PASS
Band4	1413	4	21.65	17.65	30.00	PASS
Band4	1513	1	22.16	18.16	30.00	PASS
Band4	1513	2	21.62	17.62	30.00	PASS
Band4	1513	3	21.63	17.63	30.00	PASS
Band4	1513	4	21.57	17.57	30.00	PASS
Band5	4132	1	23.39	15.24	38.5	PASS
Band5	4132	2	22.86	14.71	38.5	PASS
Band5	4132	3	22.86	14.71	38.5	PASS
Band5	4132	4	22.84	14.69	38.5	PASS
Band5	4183	1	23.43	15.28	38.5	PASS
Band5	4183	2	22.91	14.76	38.5	PASS
Band5	4183	3	22.94	14.79	38.5	PASS
Band5	4183	4	22.90	14.75	38.5	PASS
Band5	4233	1	23.47	15.32	38.5	PASS
Band5	4233	2	22.95	14.8	38.5	PASS
Band5	4233	3	22.96	14.81	38.5	PASS
Band5	4233	4	22.91	14.76	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.40	17.4	33.01	PASS
Band2	9262	2	21.92	17.92	33.01	PASS
Band2	9262	3	22.35	18.35	33.01	PASS
Band2	9262	4	21.46	17.46	33.01	PASS
Band2	9262	5	23.35	19.35	33.01	PASS
Band2	9400	1	21.50	17.5	33.01	PASS
Band2	9400	2	21.95	17.95	33.01	PASS
Band2	9400	3	22.43	18.43	33.01	PASS
Band2	9400	4	21.49	17.49	33.01	PASS
Band2	9400	5	23.47	19.47	33.01	PASS
Band2	9538	1	21.98	17.98	33.01	PASS
Band2	9538	2	22.40	18.4	33.01	PASS
Band2	9538	3	22.93	18.93	33.01	PASS

Band2	9538	4	21.96	17.96	33.01	PASS
Band2	9538	5	23.97	19.97	33.01	PASS
Band4	1312	1	19.97	15.97	30.00	PASS
Band4	1312	2	20.44	16.44	30.00	PASS
Band4	1312	3	20.99	16.99	30.00	PASS
Band4	1312	4	19.95	15.95	30.00	PASS
Band4	1312	5	21.98	17.98	30.00	PASS
Band4	1413	1	20.23	16.23	30.00	PASS
Band4	1413	2	20.71	16.71	30.00	PASS
Band4	1413	3	21.24	17.24	30.00	PASS
Band4	1413	4	20.24	16.24	30.00	PASS
Band4	1413	5	22.18	18.18	30.00	PASS
Band4	1513	1	20.11	16.11	30.00	PASS
Band4	1513	2	20.62	16.62	30.00	PASS
Band4	1513	3	21.16	17.16	30.00	PASS
Band4	1513	4	20.16	16.16	30.00	PASS
Band4	1513	5	22.10	18.1	30.00	PASS
Band5	4132	1	21.43	13.28	38.5	PASS
Band5	4132	2	21.96	13.81	38.5	PASS
Band5	4132	3	22.45	14.3	38.5	PASS
Band5	4132	4	21.49	13.34	38.5	PASS
Band5	4132	5	23.43	15.28	38.5	PASS
Band5	4183	1	21.46	13.31	38.5	PASS
Band5	4183	2	22.02	13.87	38.5	PASS
Band5	4183	3	22.50	14.35	38.5	PASS
Band5	4183	4	21.57	13.42	38.5	PASS
Band5	4183	5	23.52	15.37	38.5	PASS
Band5	4233	1	21.52	13.37	38.5	PASS
Band5	4233	2	22.04	13.89	38.5	PASS
Band5	4233	3	22.50	14.35	38.5	PASS
Band5	4233	4	21.60	13.45	38.5	PASS
Band5	4233	5	23.52	15.37	38.5	PASS

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

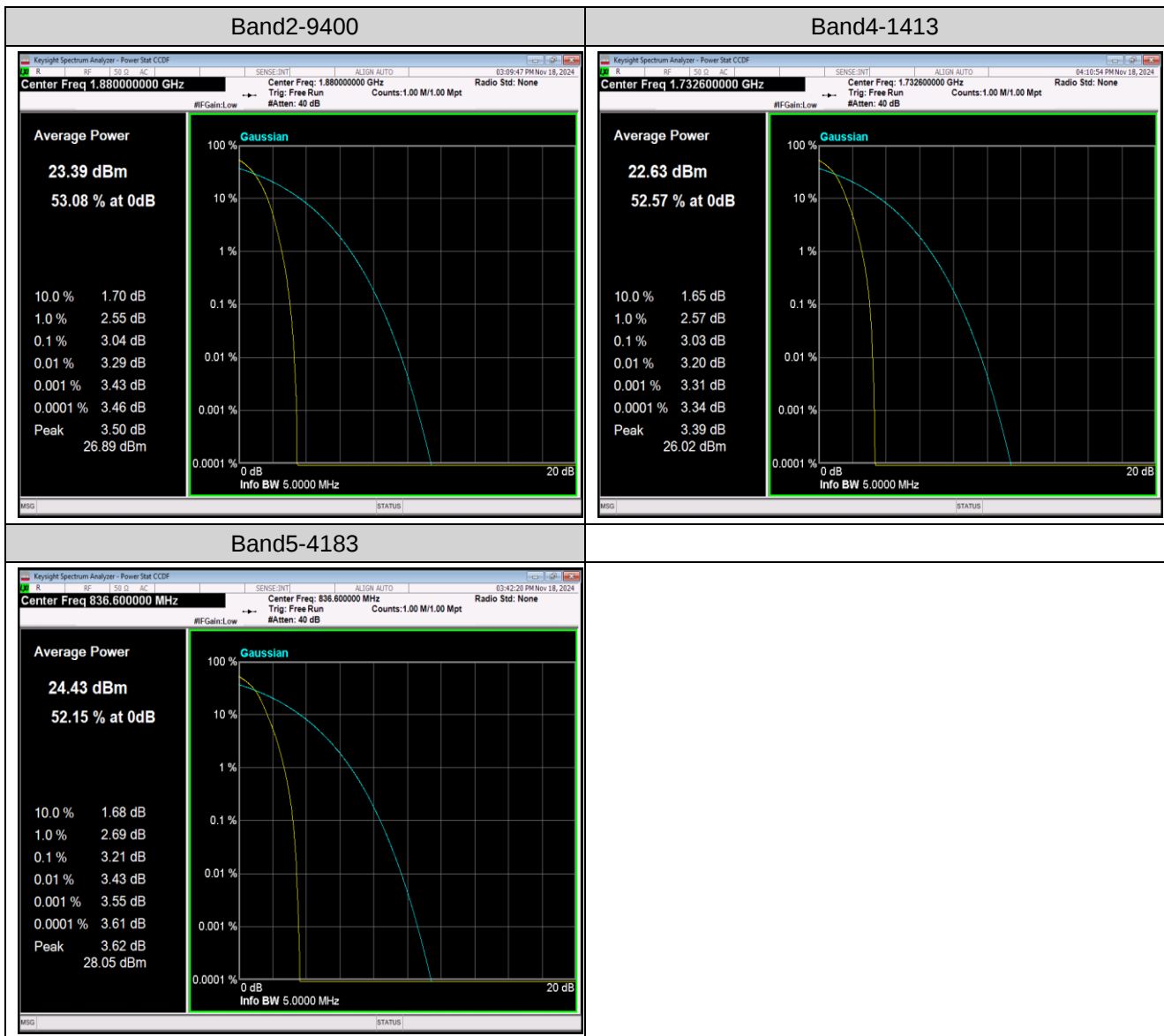
AppendixB:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.04	13	PASS
Band4	1413	3.03	13	PASS
Band5	4183	3.21	13	PASS

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

Test Graphs(WCDMA)

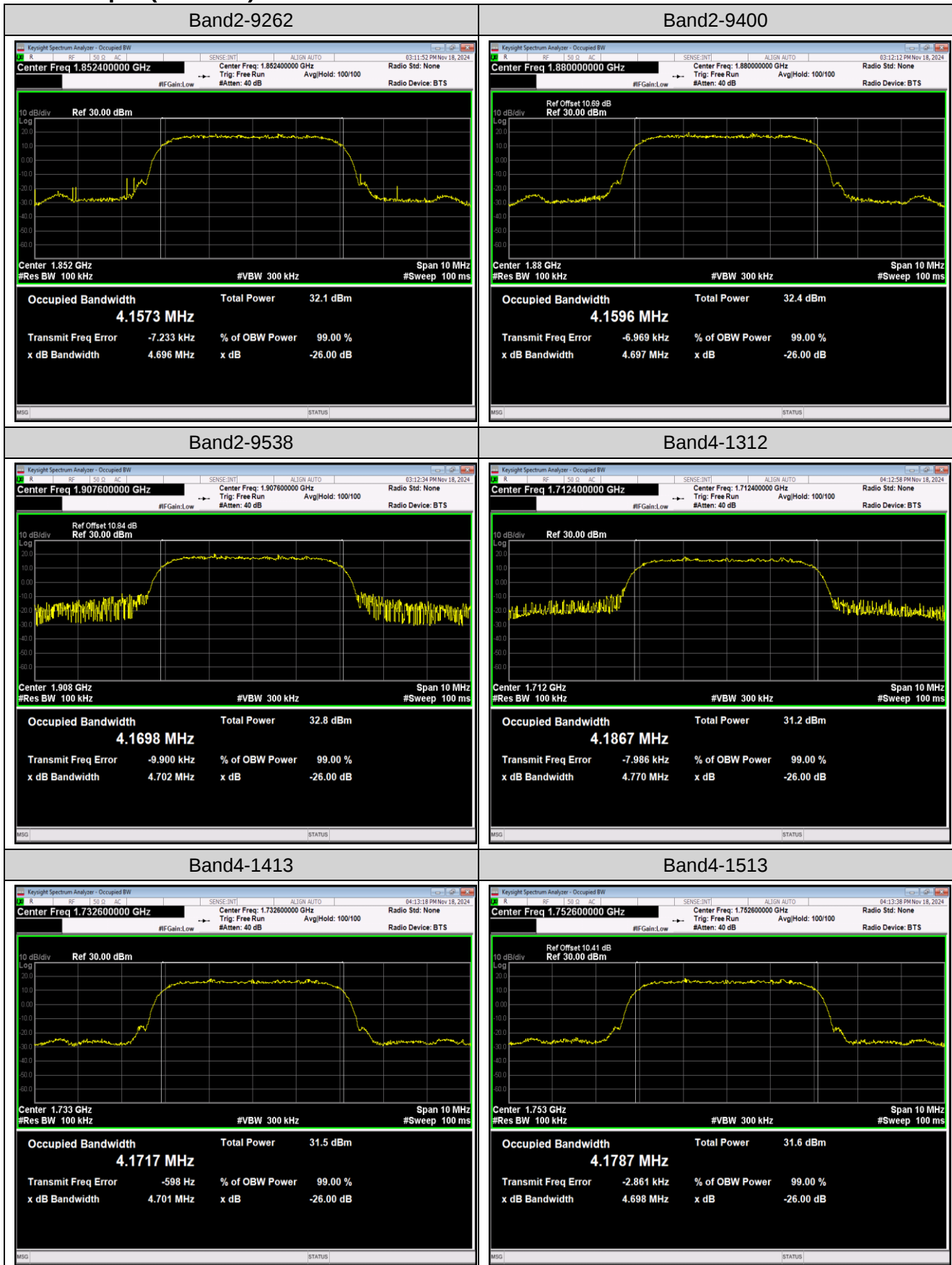


AppendixC:26dB Bandwidth andOccupied Bandwidth

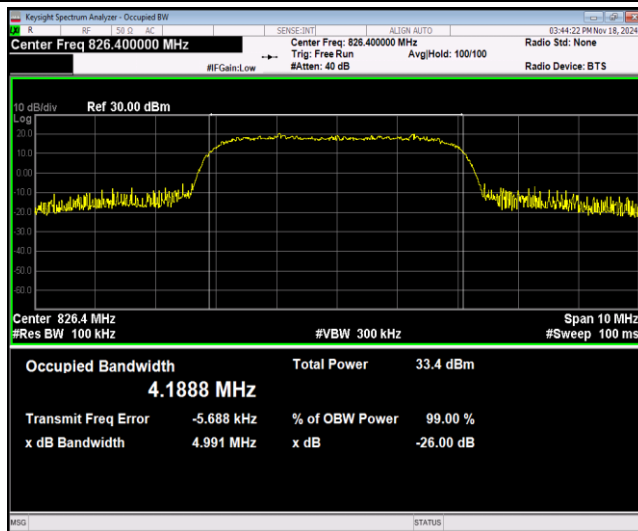
Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1573	4.696	---	PASS
Band2	9400	4.1596	4.697	---	PASS
Band2	9538	4.1698	4.702	---	PASS
Band4	1312	4.1867	4.770	---	PASS
Band4	1413	4.1717	4.701	---	PASS
Band4	1513	4.1787	4.698	---	PASS
Band5	4132	4.1888	4.991	---	PASS
Band5	4183	4.1769	4.901	---	PASS
Band5	4233	4.1823	4.695	---	PASS

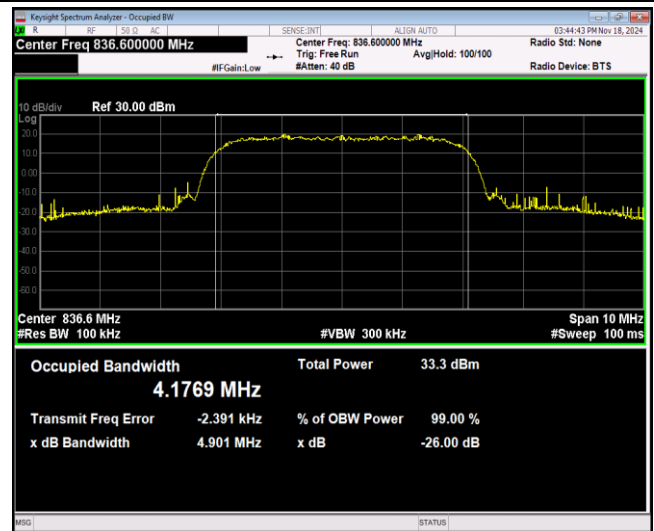
Test Graphs(WCDMA)



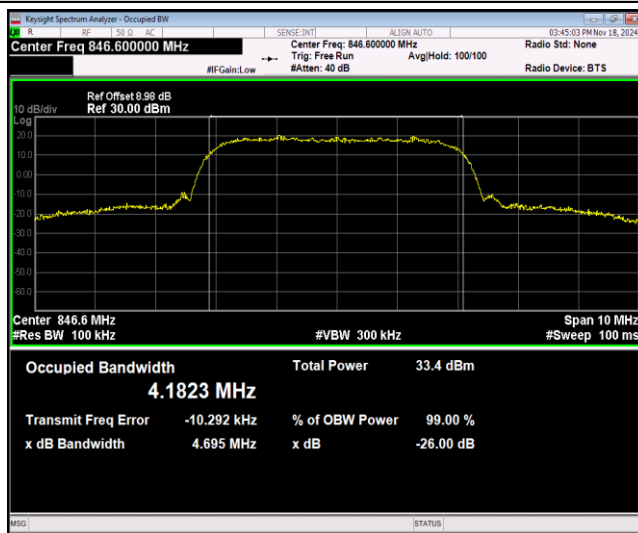
Band5-4132



Band5-4183



Band5-4233

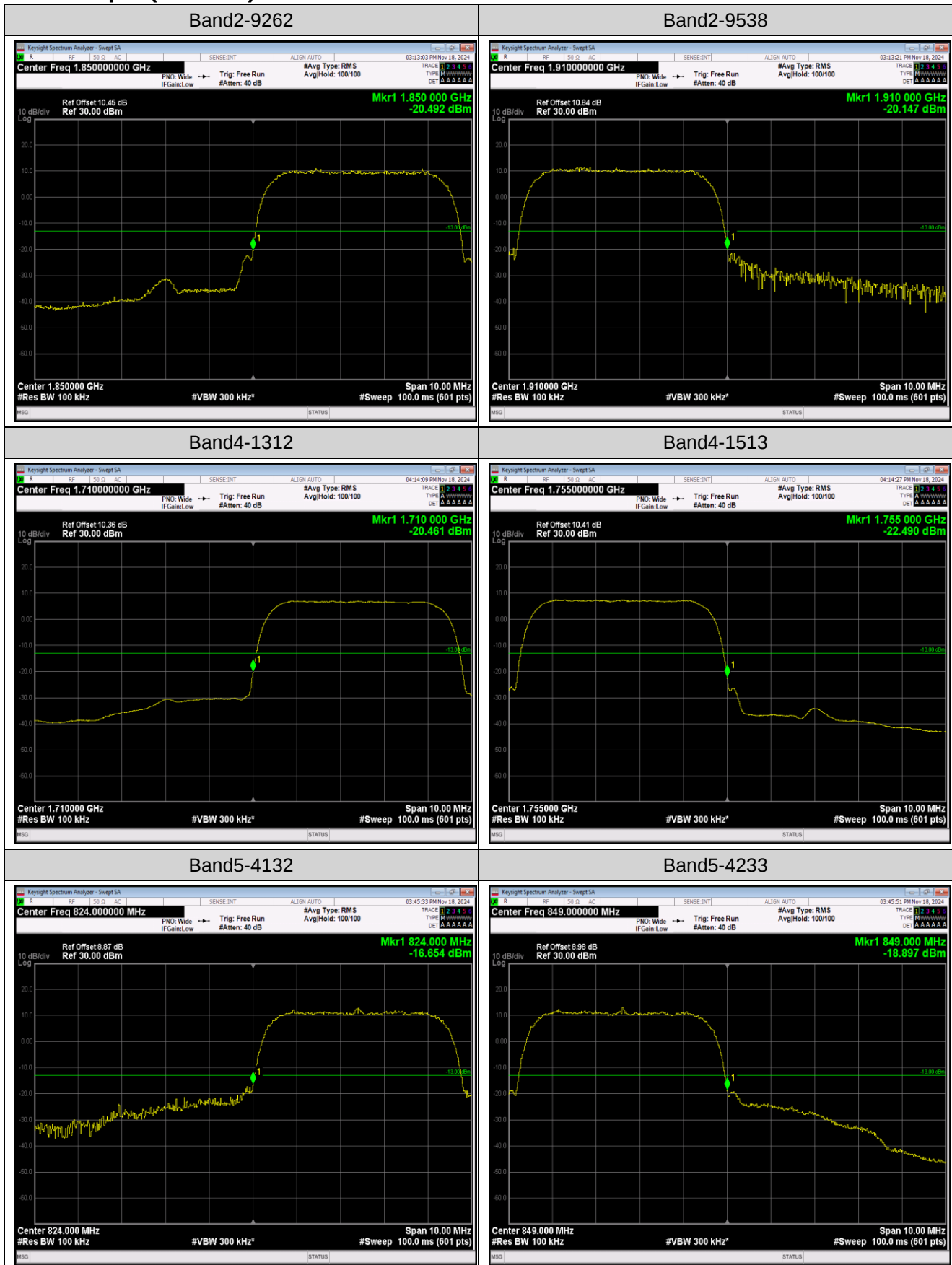


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.49	-13	PASS
Band2	9538	1910.00	-20.15	-13	PASS
Band4	1312	1710.00	-20.46	-13	PASS
Band4	1513	1755.00	-22.49	-13	PASS
Band5	4132	824.00	-16.65	-13	PASS
Band5	4233	849.00	-18.90	-13	PASS

Test Graphs(WCDMA)

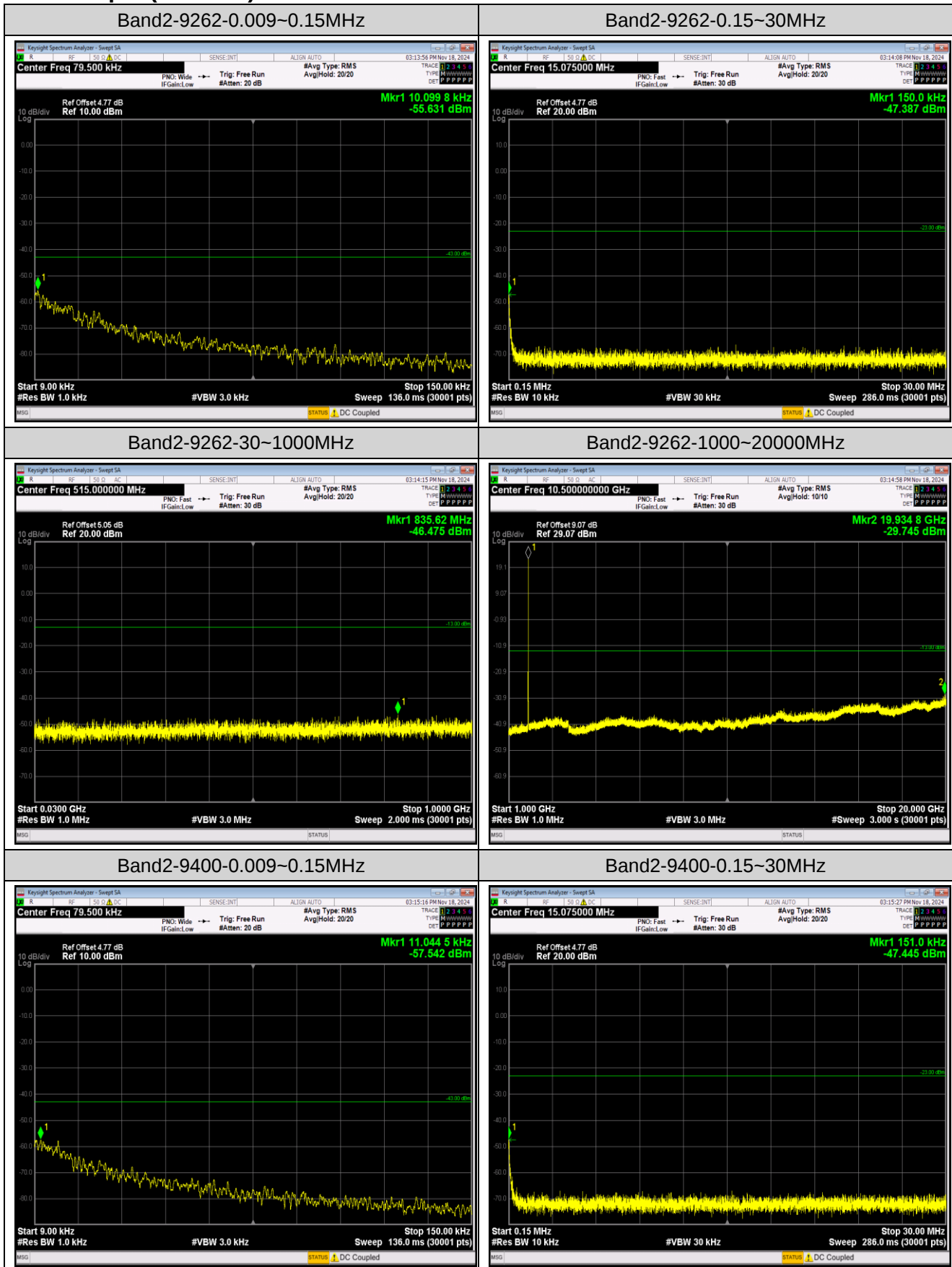


AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.63	-43	PASS
Band2	9262	0.15~30MHz	0.15	-47.39	-23	PASS
Band2	9262	30~1000MHz	835.62	-46.48	-13	PASS
Band2	9262	1000~20000MHz	19934.77	-29.75	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-57.54	-43	PASS
Band2	9400	0.15~30MHz	0.15	-47.45	-23	PASS
Band2	9400	30~1000MHz	793.62	-46.11	-13	PASS
Band2	9400	1000~20000MHz	19910.7	-30.43	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.68	-43	PASS
Band2	9538	0.15~30MHz	0.16	-48.09	-23	PASS
Band2	9538	30~1000MHz	775.9	-46.06	-13	PASS
Band2	9538	1000~20000MHz	19979.1	-30.2	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-55.86	-43	PASS
Band4	1312	0.15~30MHz	0.17	-47.57	-23	PASS
Band4	1312	30~1000MHz	886.77	-45.75	-13	PASS
Band4	1312	1000~20000MHz	19926.53	-30.78	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-55.57	-43	PASS
Band4	1413	0.15~30MHz	0.17	-47.43	-23	PASS
Band4	1413	30~1000MHz	826.34	-45.76	-13	PASS
Band4	1413	1000~20000MHz	19899.3	-30.27	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-55.73	-43	PASS
Band4	1513	0.15~30MHz	0.15	-48.33	-23	PASS
Band4	1513	30~1000MHz	929.13	-46.47	-13	PASS
Band4	1513	1000~20000MHz	19979.73	-30.66	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.68	-33	PASS
Band5	4132	0.15~30MHz	0.16	-46.98	-13	PASS
Band5	4132	30~1000MHz	954.25	-55.01	-13	PASS
Band5	4132	1000~10000MHz	5882.5	-37.37	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-55.91	-33	PASS
Band5	4183	0.15~30MHz	0.15	-46.1	-13	PASS
Band5	4183	30~1000MHz	389.93	-55.88	-13	PASS
Band5	4183	1000~10000MHz	5942.2	-37.37	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-54.2	-33	PASS
Band5	4233	0.15~30MHz	0.15	-46.87	-13	PASS
Band5	4233	30~1000MHz	465.47	-55.08	-13	PASS
Band5	4233	1000~10000MHz	5996.5	-37.1	-13	PASS

Test Graphs(WCDMA)

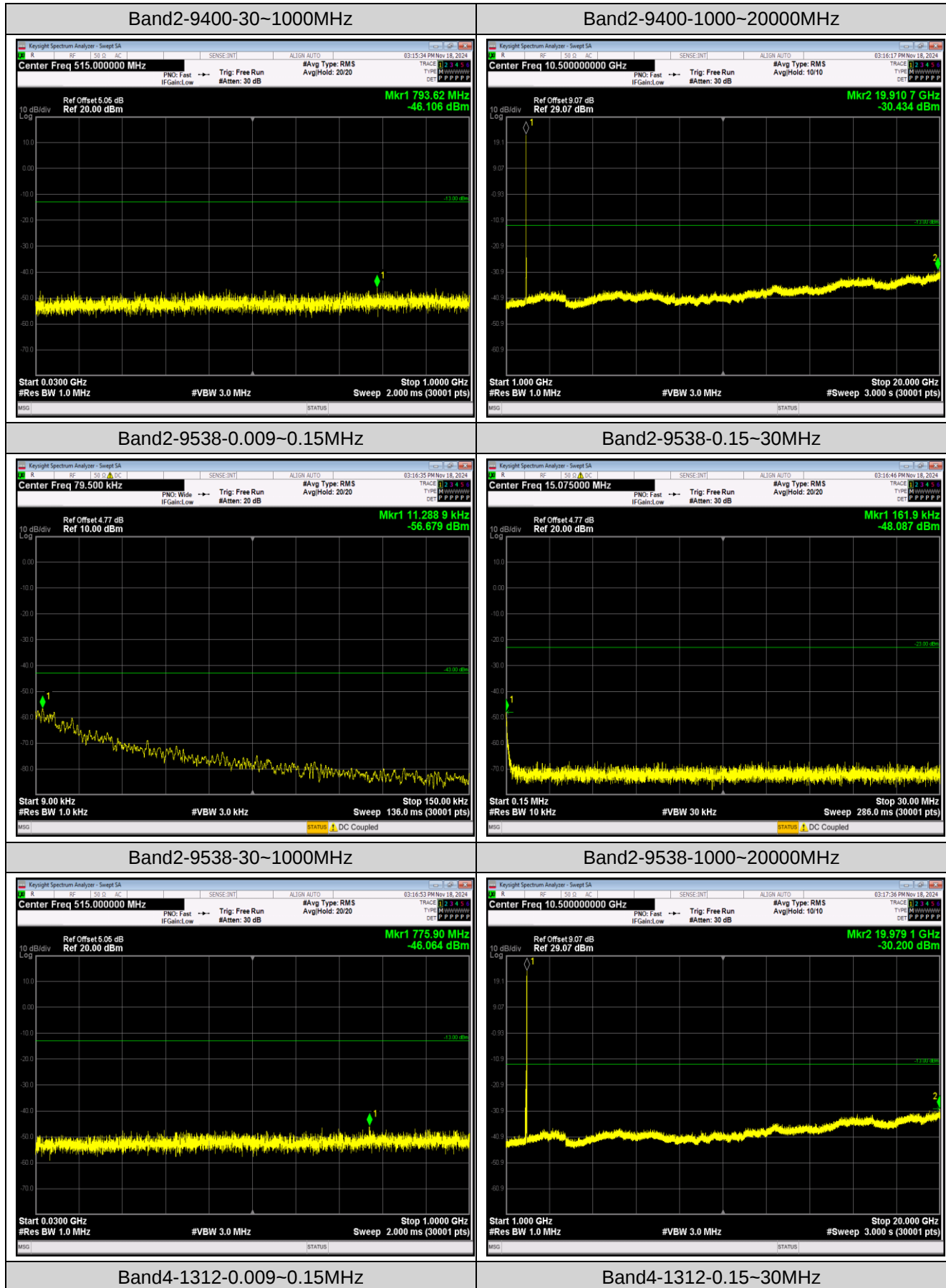


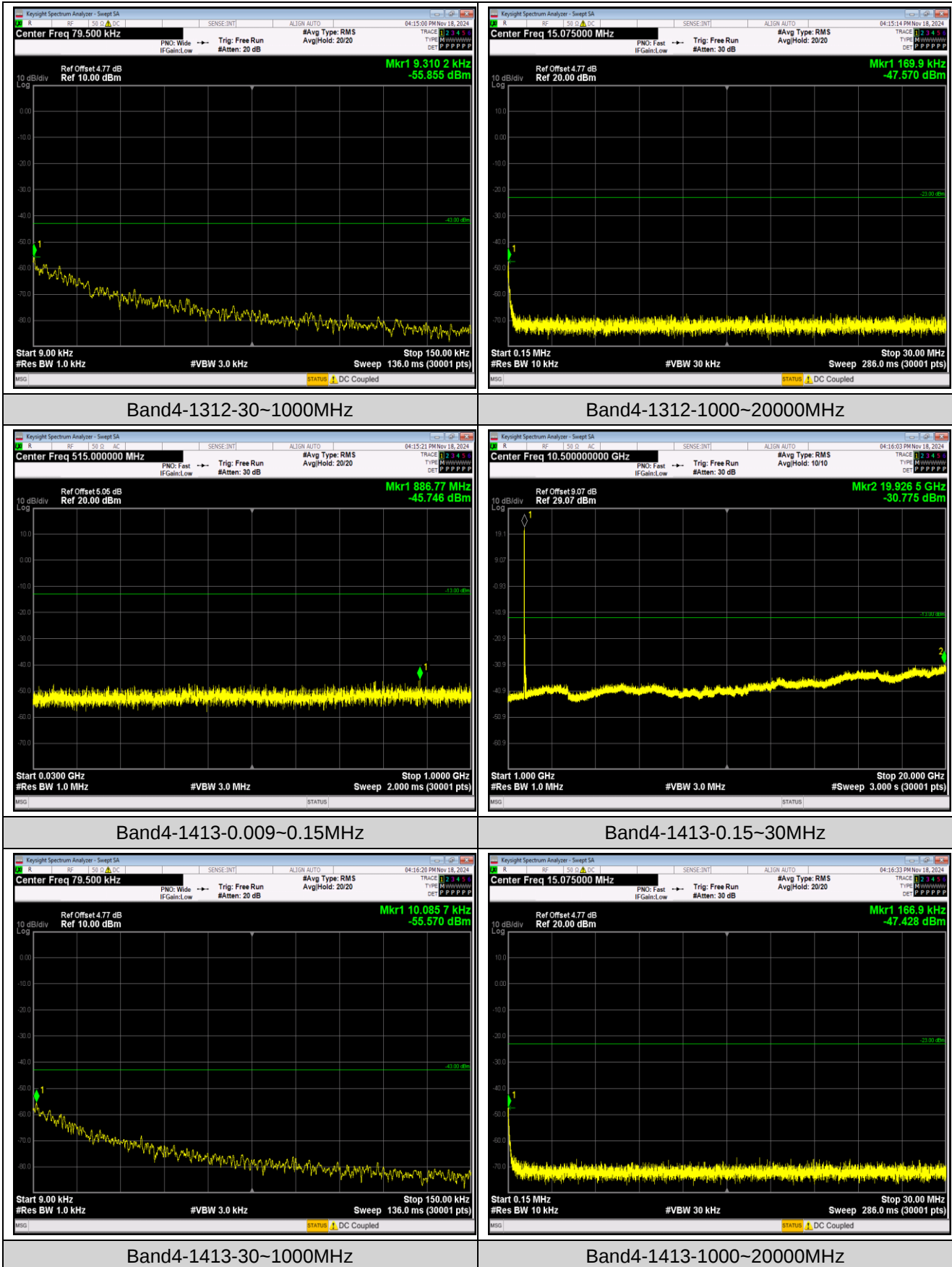
JianYan Testing Group Shenzhen Co., Ltd.

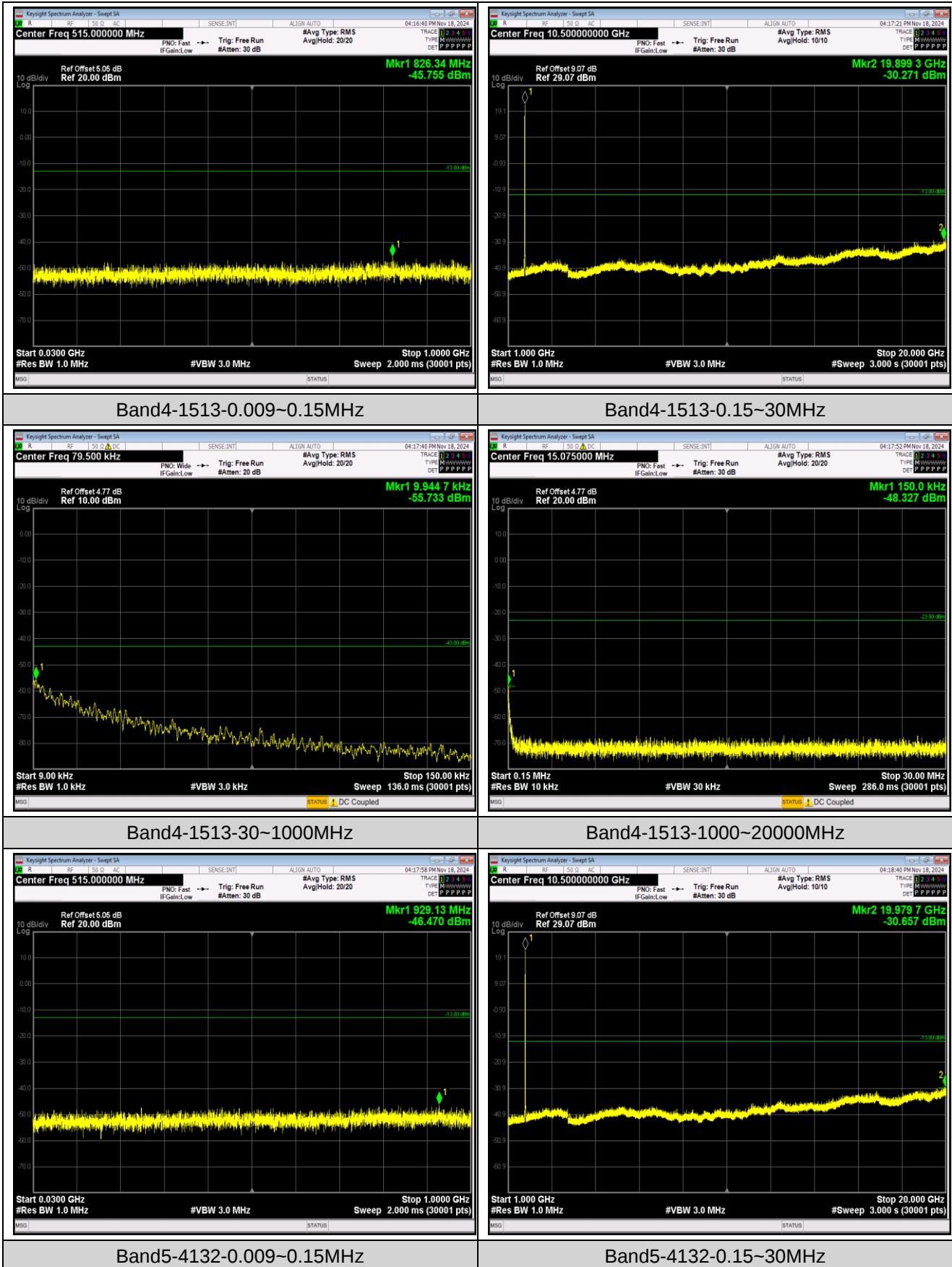
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

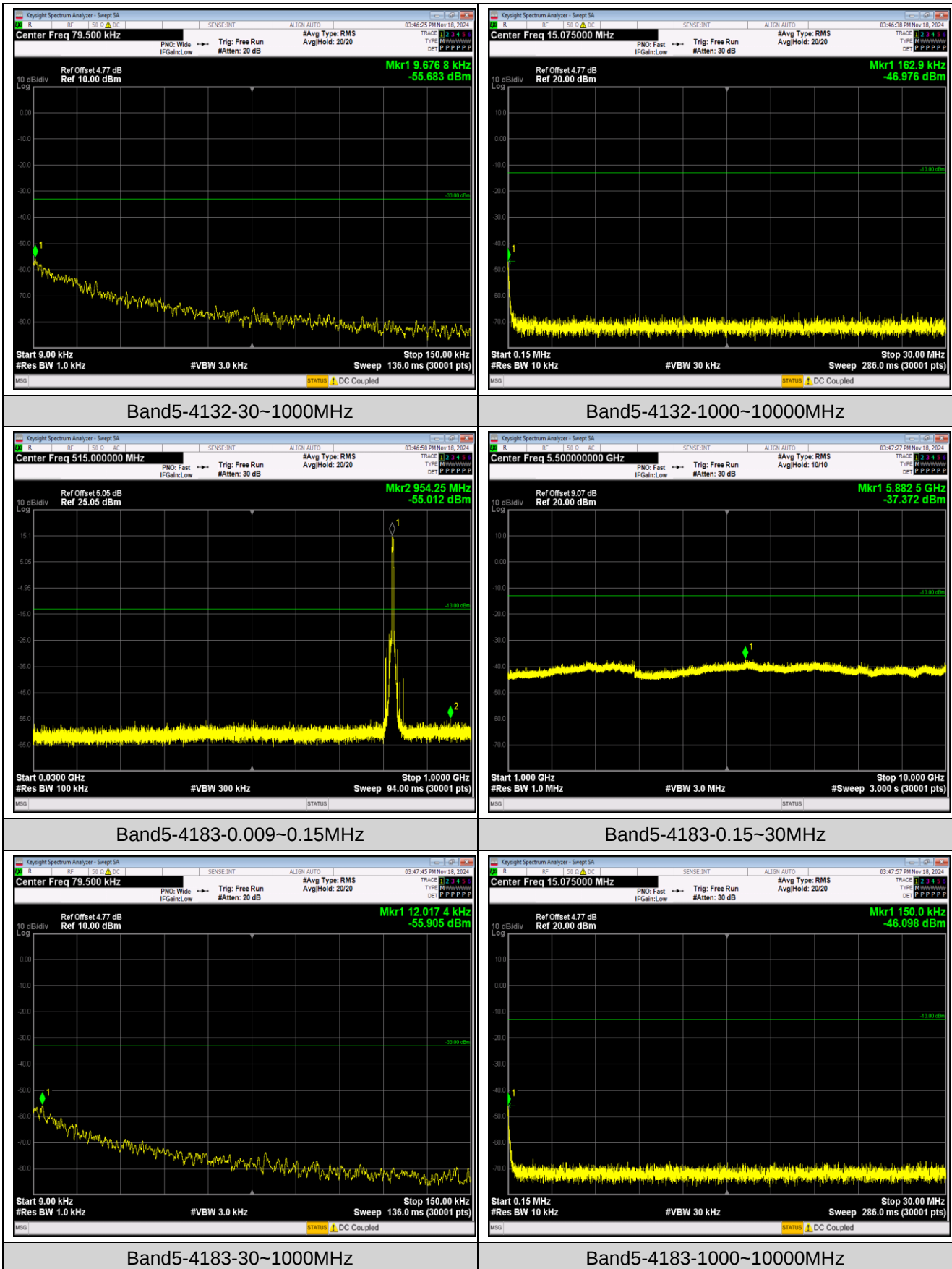
Tel: +86-755-23118282, Fax: +86-755-23116366

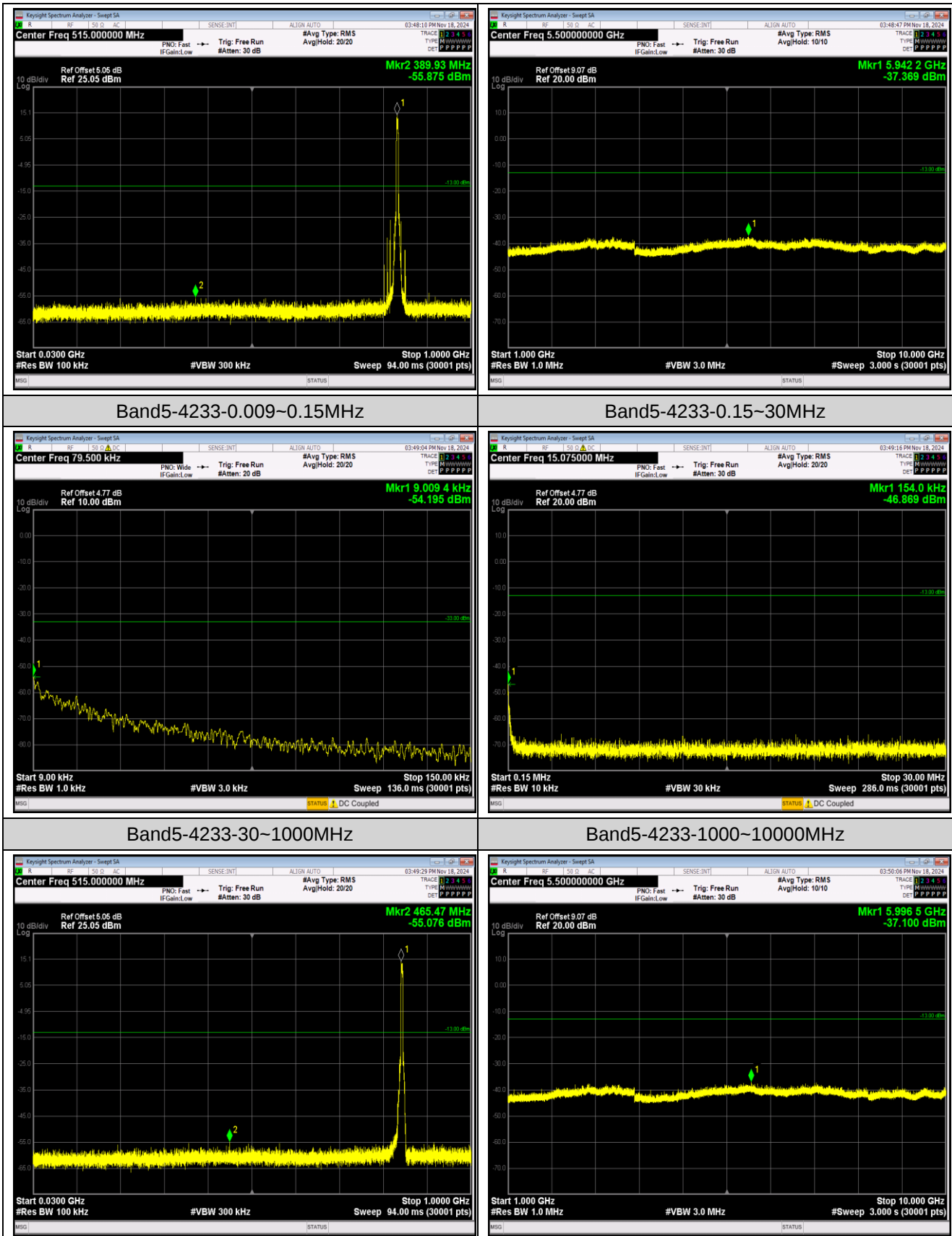
Project No.: JYTSZR2411030











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		
3.91	-30	-9.48	-0.011332	±2.5	Pass
	-20	-9.20	-0.010997		
	-10	-8.03	-0.009598		
	0	-9.76	-0.011666		
	10	-8.28	-0.009897		
	20	-12.98	-0.015515		
	30	-11.92	-0.014248		
	40	-6.90	-0.008248		
	50	-12.58	-0.015037		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-12.75	-0.015240	±2.5	Pass
	3.91	-12.51	-0.014953		
	4.50	-13.25	-0.015838		
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	-13.53	-0.007809	Within authorized band for BAND IV	Pass
	-20	-11.77	-0.006793		
	-10	-15.00	-0.008658		
	0	-12.82	-0.007399		
	10	-12.22	-0.007053		
	20	-16.00	-0.009235		
	30	-14.79	-0.008536		
	40	-13.73	-0.007925		
	50	-12.19	-0.007036		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-12.82	-0.007399	Within authorized band for BAND IV	Pass
	3.91	-15.43	-0.008906		
	4.50	-16.14	-0.009315		
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	-12.60	-0.006702	Within authorized band for BAND II	Pass
	-20	-13.20	-0.007021		
	-10	-16.01	-0.008516		
	0	-9.59	-0.005101		
	10	-11.55	-0.006144		
	20	-12.38	-0.006585		
	30	-14.30	-0.007606		
	40	-15.12	-0.008043		
	50	-10.66	-0.005670		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-12.85	-0.006835	Within authorized band for BAND II	Pass
	3.91	-9.76	-0.005191		
	4.50	-10.57	-0.005622		
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

