

## 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	23.12	19.91	33.01	PASS
Band2	TestMode	9262	23.35	20.14	33.01	PASS
Band2	TestMode	9400	23.24	20.03	33.01	PASS
Band2	Voice	9400	23.20	19.99	33.01	PASS
Band2	TestMode	9538	23.37	20.16	33.01	PASS
Band2	Voice	9538	23.27	20.06	33.01	PASS
Band4	Voice	1312	22.93	20.11	30.00	PASS
Band4	TestMode	1312	23.14	20.32	30.00	PASS
Band4	Voice	1413	22.85	20.03	30.00	PASS
Band4	TestMode	1413	22.98	20.16	30.00	PASS
Band4	TestMode	1513	22.97	20.15	30.00	PASS
Band4	Voice	1513	22.88	20.06	30.00	PASS
Band5	Voice	4132	23.33	16.01	38.45	PASS
Band5	TestMode	4132	23.42	16.1	38.45	PASS
Band5	TestMode	4183	22.98	15.66	38.45	PASS
Band5	Voice	4183	23.35	16.03	38.45	PASS
Band5	Voice	4233	23.27	15.95	38.45	PASS
Band5	TestMode	4233	23.36	16.04	38.45	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	23.29	20.08	33.01	PASS
Band2	9262	2	22.79	19.58	33.01	PASS
Band2	9262	3	22.51	19.3	33.01	PASS
Band2	9262	4	22.83	19.62	33.01	PASS
Band2	9400	1	23.33	20.12	33.01	PASS
Band2	9400	2	22.76	19.55	33.01	PASS
Band2	9400	3	22.70	19.49	33.01	PASS
Band2	9400	4	22.79	19.58	33.01	PASS
Band2	9538	1	23.42	20.21	33.01	PASS
Band2	9538	2	22.86	19.65	33.01	PASS
Band2	9538	3	22.88	19.67	33.01	PASS
Band2	9538	4	22.87	19.66	33.01	PASS

Band4	1312	1	23.00	20.18	30.00	PASS
Band4	1312	2	22.58	19.76	30.00	PASS
Band4	1312	3	22.60	19.78	30.00	PASS
Band4	1312	4	22.55	19.73	30.00	PASS
Band4	1413	1	23.00	20.18	30.00	PASS
Band4	1413	2	22.50	19.68	30.00	PASS
Band4	1413	3	22.46	19.64	30.00	PASS
Band4	1413	4	22.40	19.58	30.00	PASS
Band4	1513	1	22.90	20.08	30.00	PASS
Band4	1513	2	22.37	19.55	30.00	PASS
Band4	1513	3	22.47	19.65	30.00	PASS
Band4	1513	4	22.39	19.57	30.00	PASS
Band5	4132	1	23.43	16.11	38.5	PASS
Band5	4132	2	22.80	15.48	38.5	PASS
Band5	4132	3	22.85	15.53	38.5	PASS
Band5	4132	4	22.86	15.54	38.5	PASS
Band5	4183	1	23.35	16.03	38.5	PASS
Band5	4183	2	22.86	15.54	38.5	PASS
Band5	4183	3	22.85	15.53	38.5	PASS
Band5	4183	4	22.82	15.5	38.5	PASS
Band5	4233	1	23.31	15.99	38.5	PASS
Band5	4233	2	22.89	15.57	38.5	PASS
Band5	4233	3	22.87	15.55	38.5	PASS
Band5	4233	4	22.79	15.47	38.5	PASS

### Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.36	18.15	33.01	PASS
Band2	9262	2	21.81	18.6	33.01	PASS
Band2	9262	3	22.31	19.1	33.01	PASS
Band2	9262	4	21.37	18.16	33.01	PASS
Band2	9262	5	23.50	20.29	33.01	PASS
Band2	9400	1	21.49	18.28	33.01	PASS
Band2	9400	2	21.97	18.76	33.01	PASS
Band2	9400	3	22.55	19.34	33.01	PASS
Band2	9400	4	21.55	18.34	33.01	PASS
Band2	9400	5	23.61	20.4	33.01	PASS
Band2	9538	1	21.66	18.45	33.01	PASS
Band2	9538	2	22.14	18.93	33.01	PASS
Band2	9538	3	22.59	19.38	33.01	PASS

Band2	9538	4	21.62	18.41	33.01	PASS
Band2	9538	5	23.79	20.58	33.01	PASS
Band4	1312	1	21.17	18.35	30.00	PASS
Band4	1312	2	21.69	18.87	30.00	PASS
Band4	1312	3	22.19	19.37	30.00	PASS
Band4	1312	4	21.24	18.42	30.00	PASS
Band4	1312	5	23.34	20.52	30.00	PASS
Band4	1413	1	21.24	18.42	30.00	PASS
Band4	1413	2	21.77	18.95	30.00	PASS
Band4	1413	3	22.38	19.56	30.00	PASS
Band4	1413	4	21.36	18.54	30.00	PASS
Band4	1413	5	23.37	20.55	30.00	PASS
Band4	1513	1	21.32	18.5	30.00	PASS
Band4	1513	2	21.79	18.97	30.00	PASS
Band4	1513	3	22.32	19.5	30.00	PASS
Band4	1513	4	21.40	18.58	30.00	PASS
Band4	1513	5	23.38	20.56	30.00	PASS
Band5	4132	1	21.44	14.12	38.5	PASS
Band5	4132	2	21.91	14.59	38.5	PASS
Band5	4132	3	22.41	15.09	38.5	PASS
Band5	4132	4	21.44	14.12	38.5	PASS
Band5	4132	5	23.65	16.33	38.5	PASS
Band5	4183	1	21.56	14.24	38.5	PASS
Band5	4183	2	22.04	14.72	38.5	PASS
Band5	4183	3	22.55	15.23	38.5	PASS
Band5	4183	4	21.56	14.24	38.5	PASS
Band5	4183	5	23.62	16.3	38.5	PASS
Band5	4233	1	21.56	14.24	38.5	PASS
Band5	4233	2	22.02	14.7	38.5	PASS
Band5	4233	3	22.54	15.22	38.5	PASS
Band5	4233	4	21.57	14.25	38.5	PASS
Band5	4233	5	23.67	16.35	38.5	PASS

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

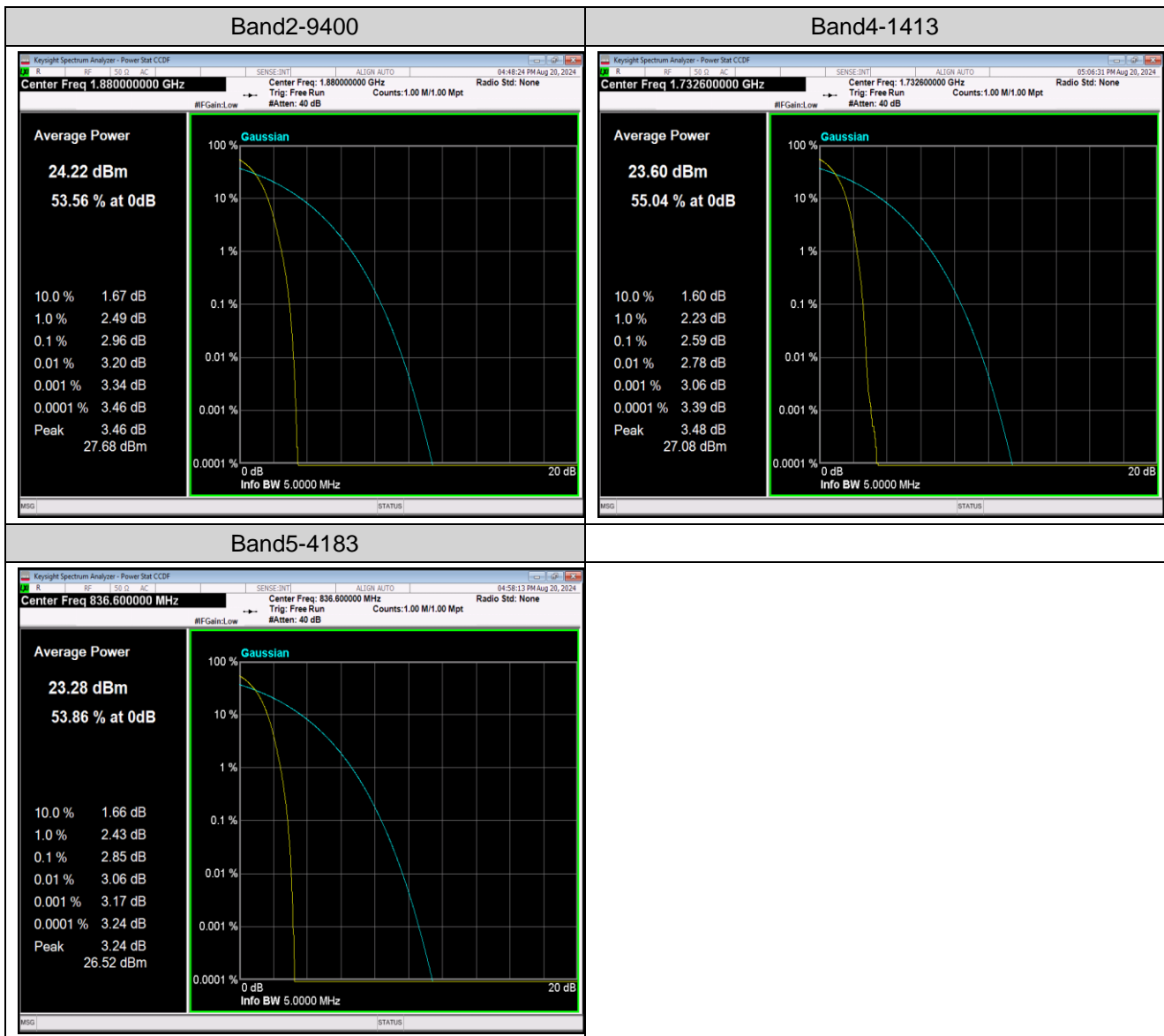
## Appendix B: Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.96	13	PASS
Band4	1413	2.59	13	PASS
Band5	4183	2.85	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	4.1677	4.720	---	PASS
Band2	9400	4.1597	4.708	---	PASS
Band2	9538	4.1705	4.704	---	PASS
Band4	1312	4.1658	4.718	---	PASS
Band4	1413	4.1904	4.728	---	PASS
Band4	1513	4.1663	4.710	---	PASS
Band5	4132	4.1682	4.703	---	PASS
Band5	4183	4.1760	4.713	---	PASS
Band5	4233	4.1790	4.946	---	PASS

## Test Graphs(WCDMA)



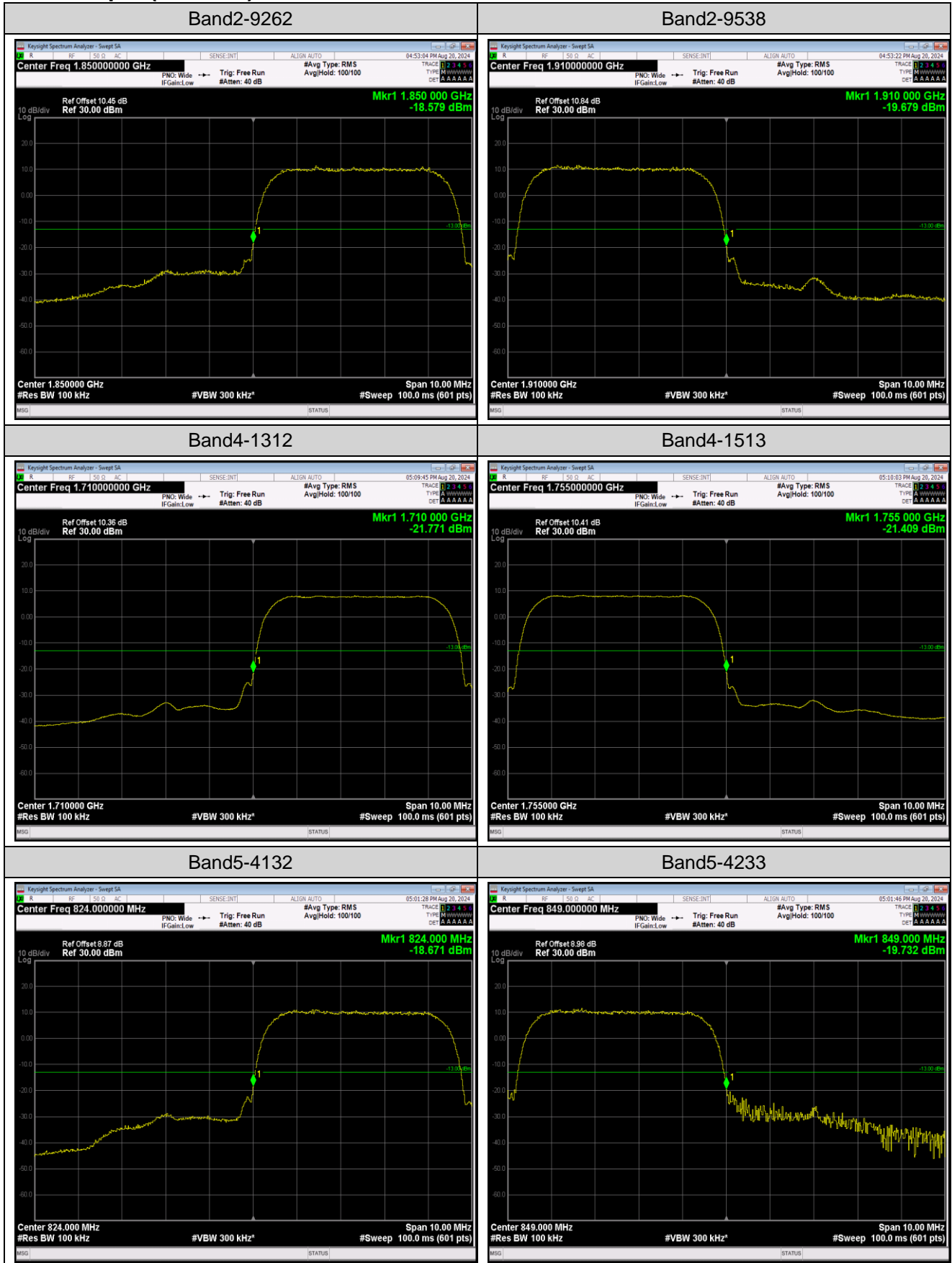


**AppendixD:Band Edge****Test Result(WCDMA)**

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.58	-13	PASS
Band2	9538	1910.00	-19.68	-13	PASS
Band4	1312	1710.00	-21.77	-13	PASS
Band4	1513	1755.00	-21.41	-13	PASS
Band5	4132	824.00	-18.67	-13	PASS
Band5	4233	849.00	-19.73	-13	PASS



## Test Graphs(WCDMA)

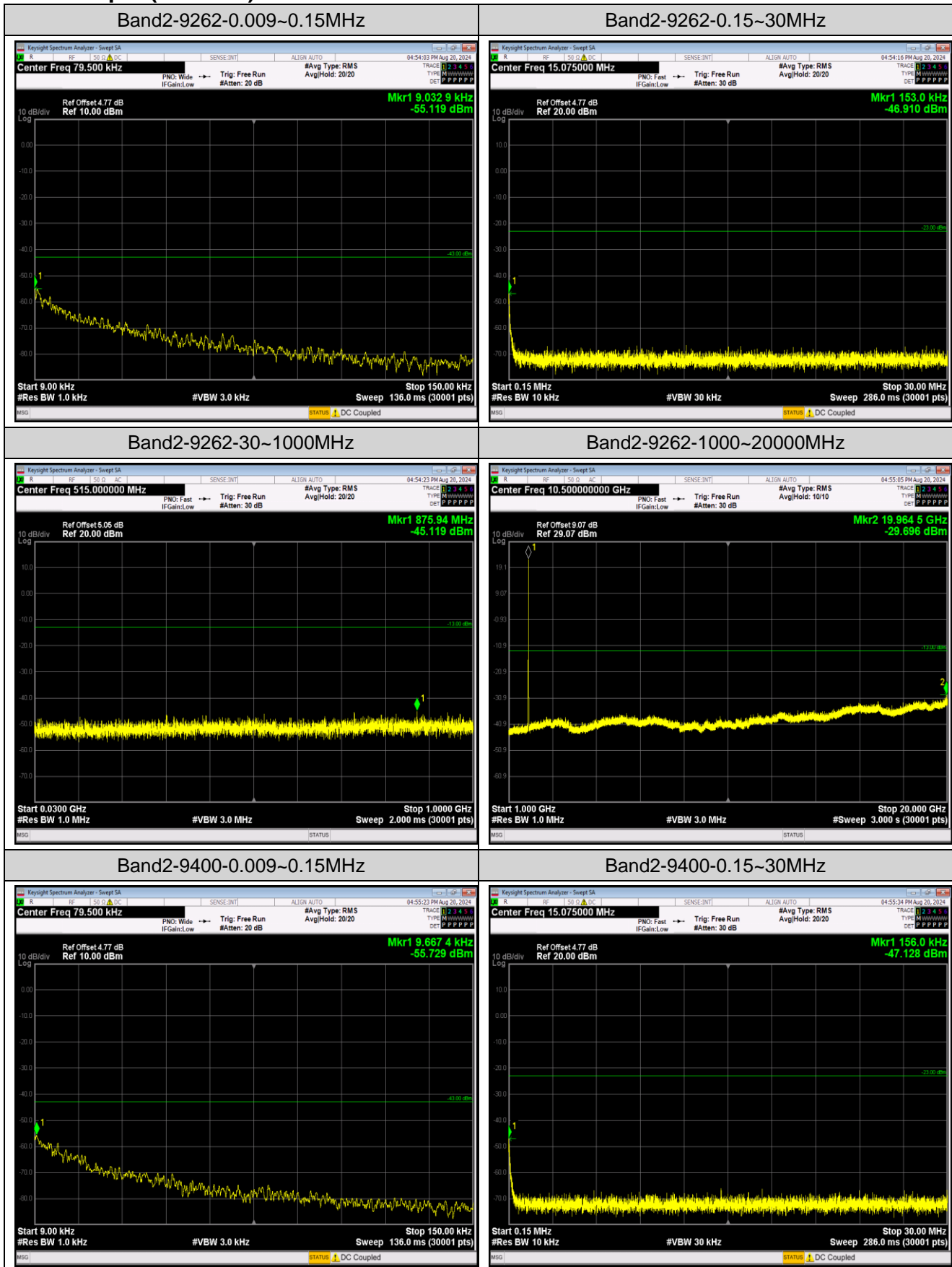


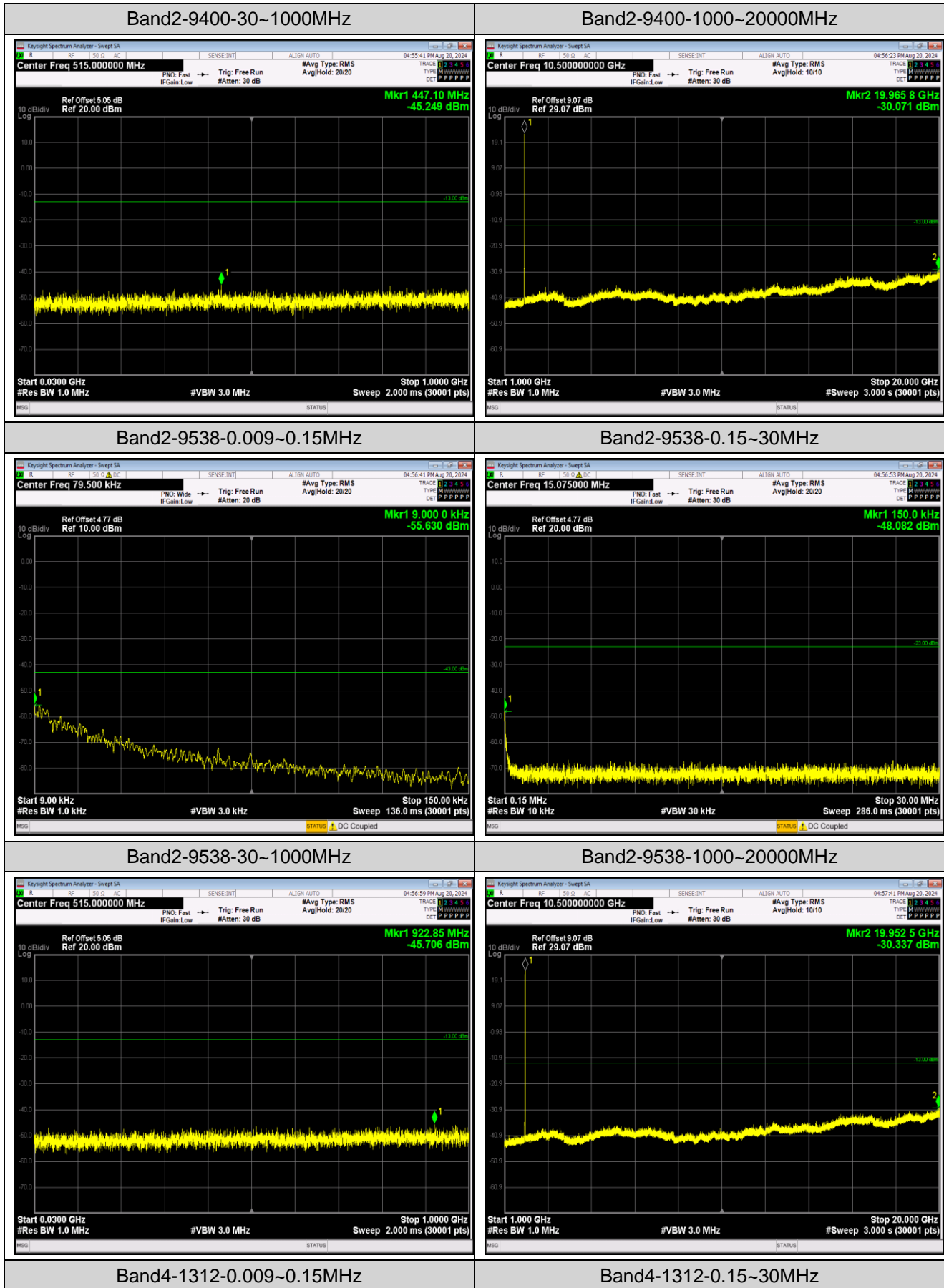
## Appendix E: Conducted Spurious Emission

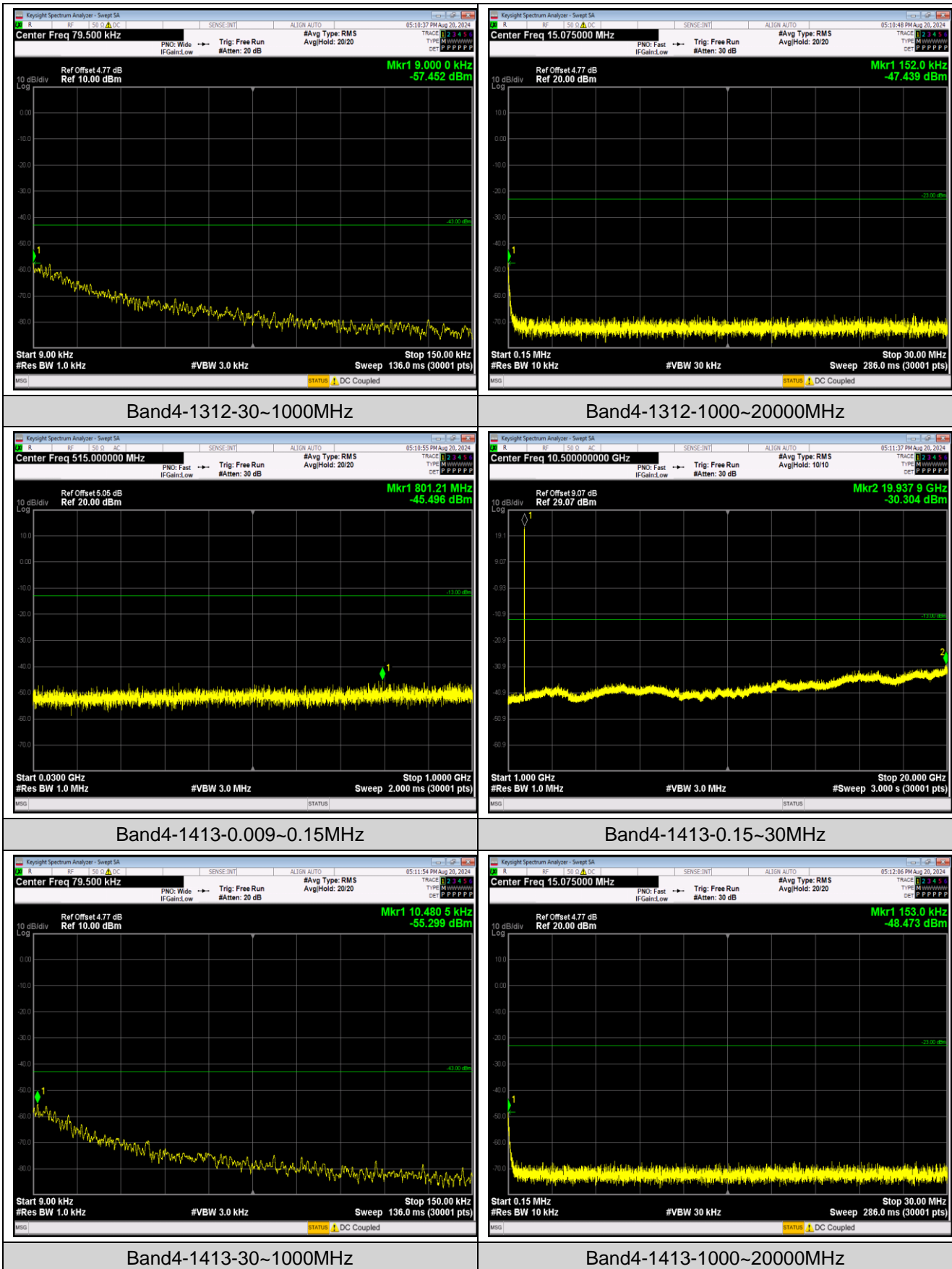
### Test Result (WCDMA)

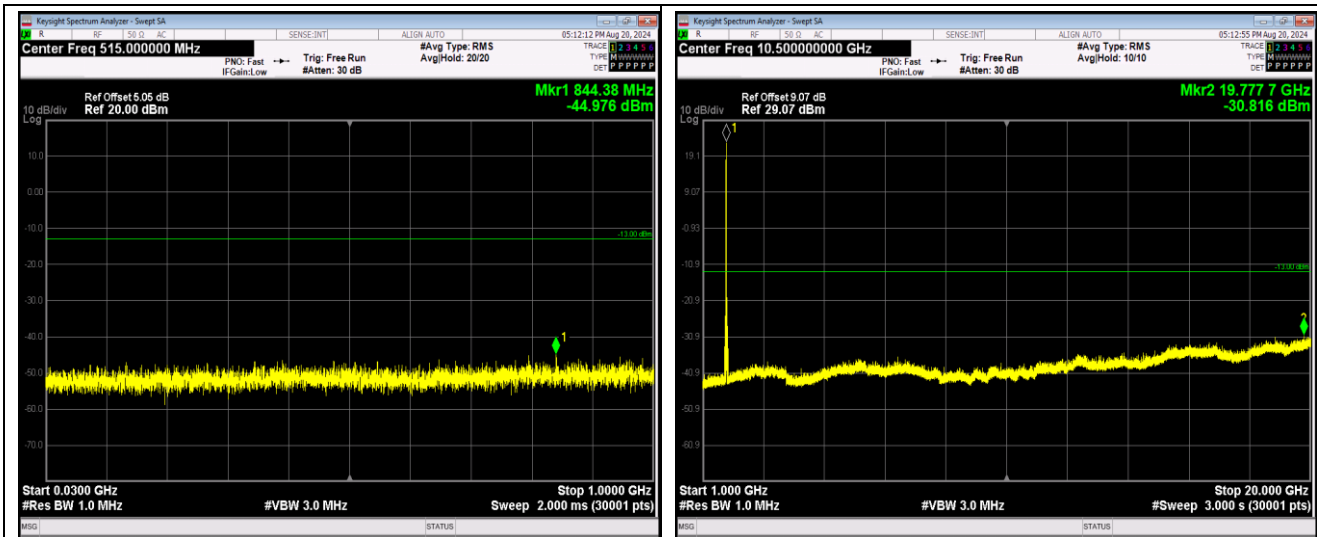
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.12	-43	PASS
Band2	9262	0.15~30MHz	0.15	-46.91	-23	PASS
Band2	9262	30~1000MHz	875.94	-45.12	-13	PASS
Band2	9262	1000~20000MHz	19964.53	-29.7	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-55.73	-43	PASS
Band2	9400	0.15~30MHz	0.16	-47.13	-23	PASS
Band2	9400	30~1000MHz	447.1	-45.25	-13	PASS
Band2	9400	1000~20000MHz	19965.8	-30.07	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-55.63	-43	PASS
Band2	9538	0.15~30MHz	0.15	-48.08	-23	PASS
Band2	9538	30~1000MHz	922.85	-45.71	-13	PASS
Band2	9538	1000~20000MHz	19952.5	-30.34	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-57.45	-43	PASS
Band4	1312	0.15~30MHz	0.15	-47.44	-23	PASS
Band4	1312	30~1000MHz	801.21	-45.5	-13	PASS
Band4	1312	1000~20000MHz	19937.93	-30.3	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-55.3	-43	PASS
Band4	1413	0.15~30MHz	0.15	-48.47	-23	PASS
Band4	1413	30~1000MHz	844.38	-44.98	-13	PASS
Band4	1413	1000~20000MHz	19777.7	-30.82	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-55.02	-43	PASS
Band4	1513	0.15~30MHz	0.15	-47.26	-23	PASS
Band4	1513	30~1000MHz	889.87	-44.99	-13	PASS
Band4	1513	1000~20000MHz	19951.23	-30.81	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-54.98	-33	PASS
Band5	4132	0.15~30MHz	0.15	-46.52	-13	PASS
Band5	4132	30~1000MHz	977.63	-54.48	-13	PASS
Band5	4132	1000~10000MHz	5914	-36.12	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-57.06	-33	PASS
Band5	4183	0.15~30MHz	0.15	-45.12	-13	PASS
Band5	4183	30~1000MHz	965.92	-55.02	-13	PASS
Band5	4183	1000~10000MHz	5944	-36.68	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.41	-33	PASS
Band5	4233	0.15~30MHz	0.15	-47.1	-13	PASS
Band5	4233	30~1000MHz	744.66	-54.34	-13	PASS
Band5	4233	1000~10000MHz	5972.2	-36.47	-13	PASS

## Test Graphs(WCDMA)



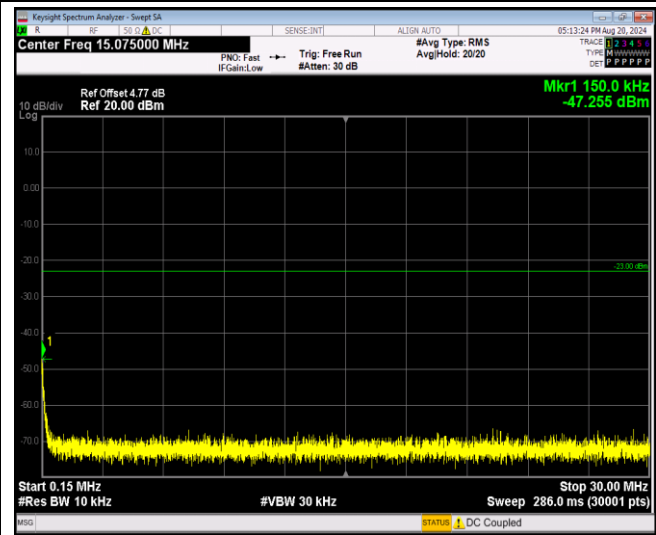
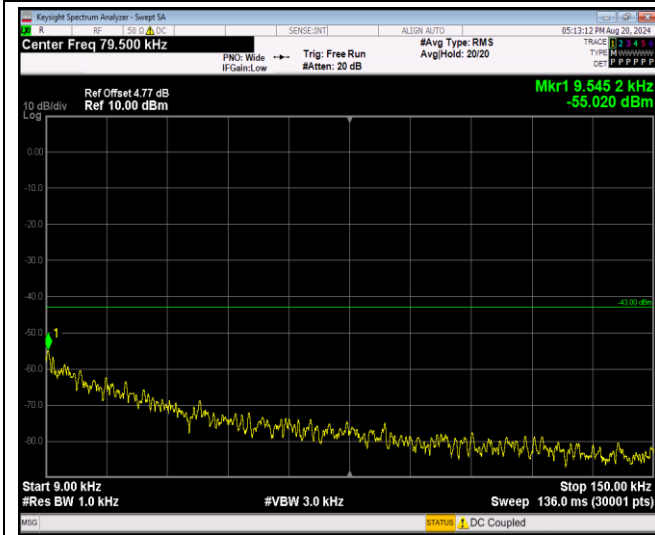






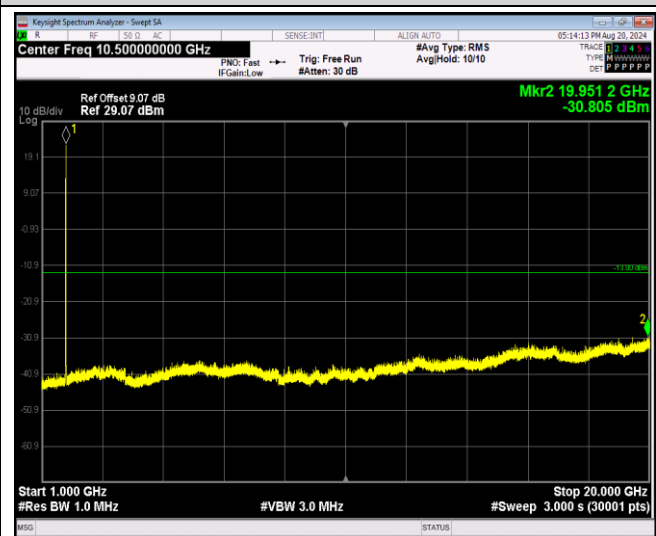
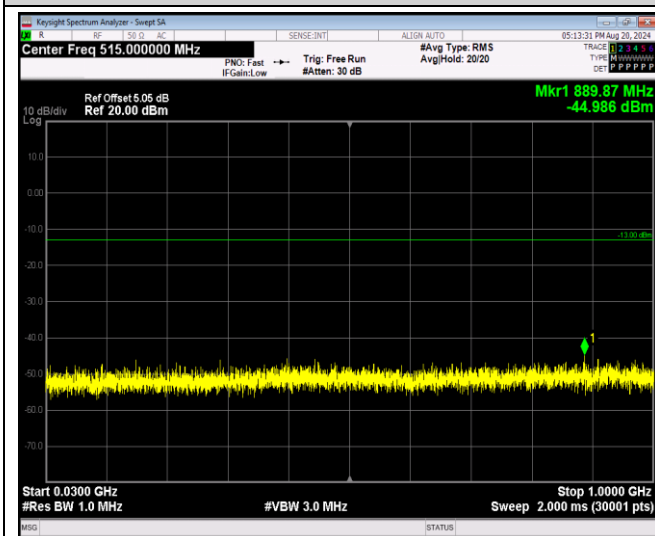
Band4-1513-0.009~0.15MHz

Band4-1513-0.15~30MHz



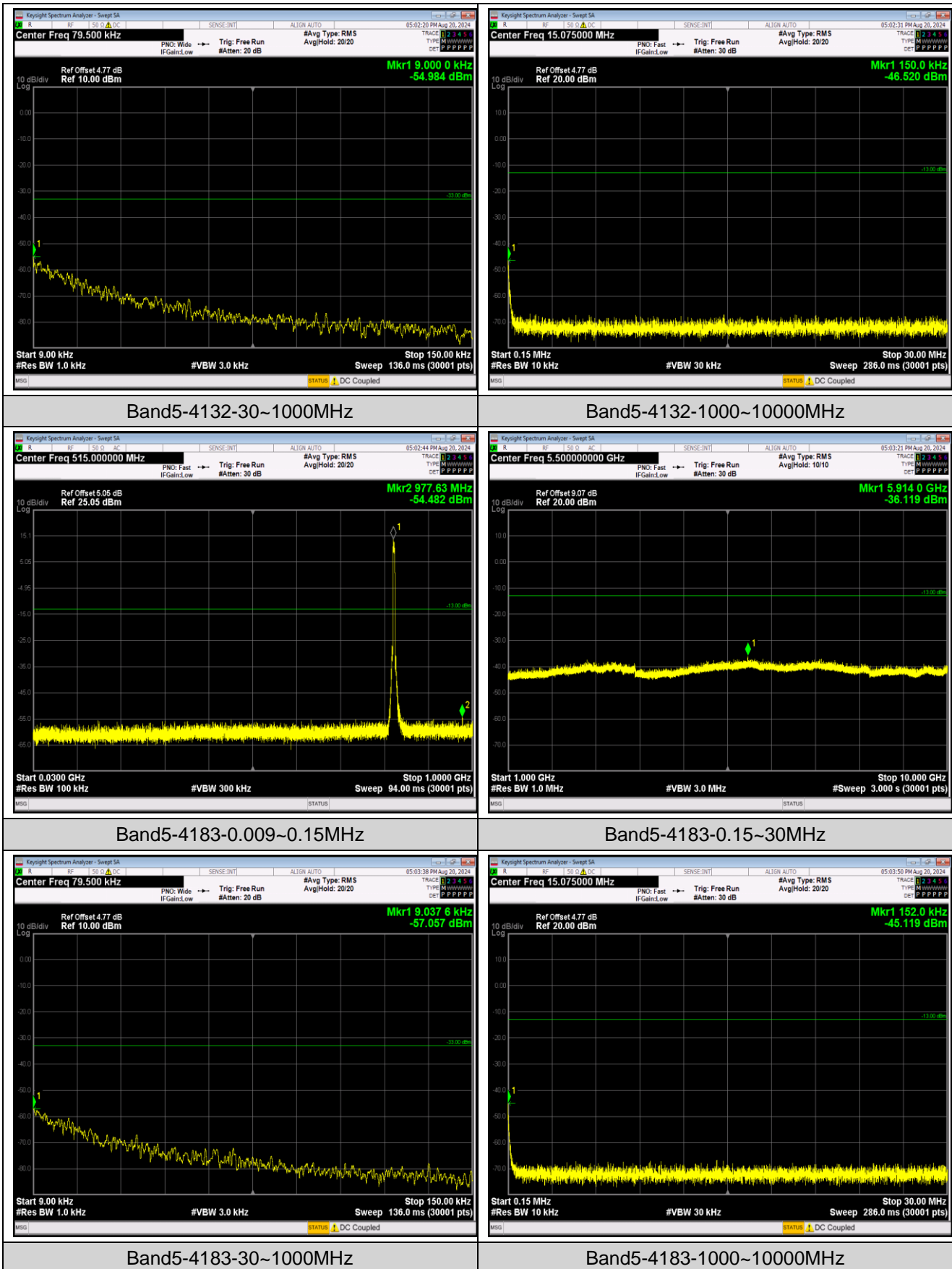
Band4-1513-30~1000MHz

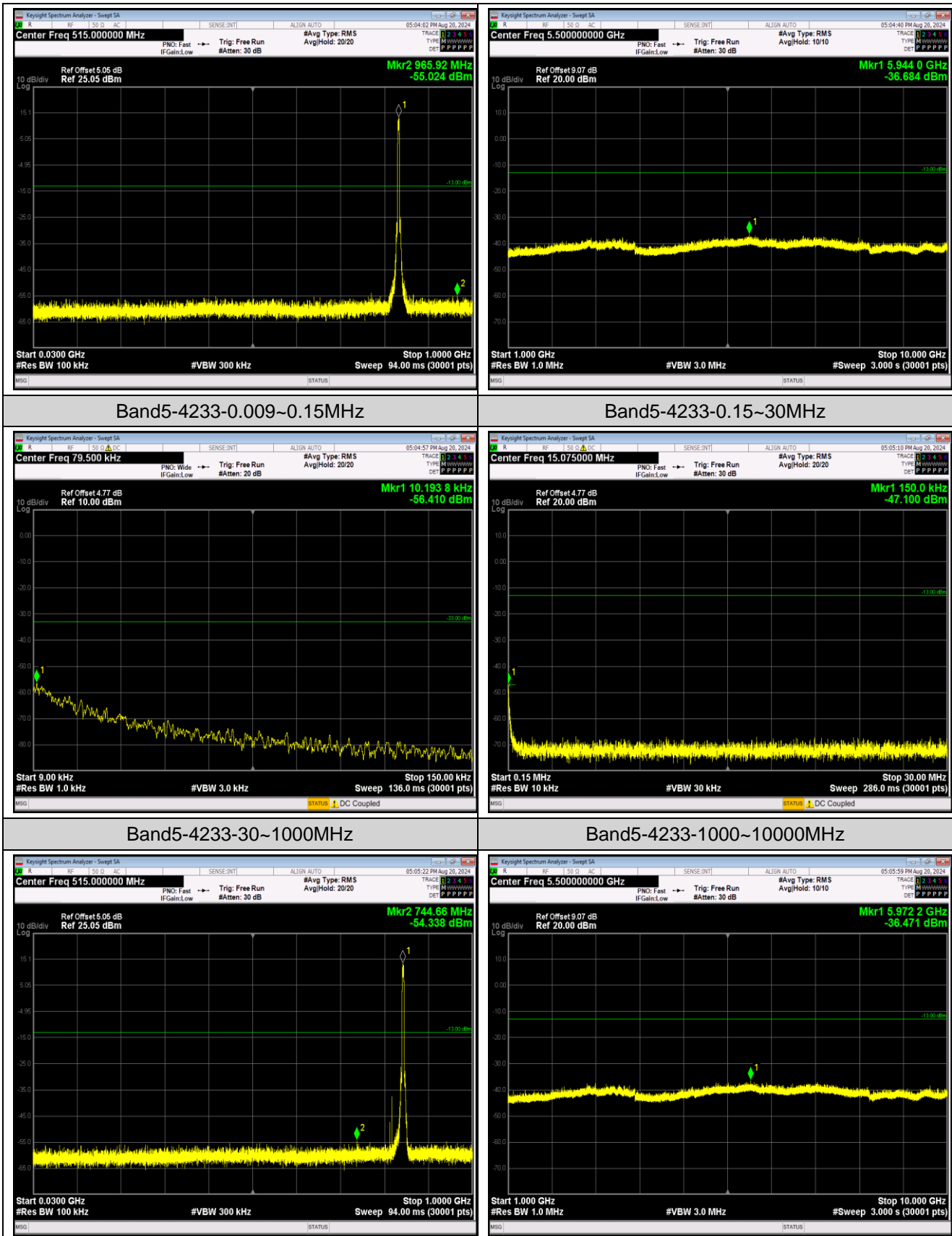
Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

Band5-4132-0.15~30MHz







## 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		
3.87	-30	-8.29	-0.009909	±2.5	Pass
	-20	-6.92	-0.008272		
	-10	-8.03	-0.009598		
	0	-5.40	-0.006455		
	10	-11.37	-0.013591		
	20	-10.89	-0.013017		
	30	-11.97	-0.014308		
	40	-12.72	-0.015204		
	50	-12.62	-0.015085		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-3.64	-0.004351	±2.5	Pass
	3.87	-9.03	-0.010794		
	4.45	-7.04	-0.008415		
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		
3.87	-30	-11.74	-0.006776	Within authorized band for BAND IV	Pass
	-20	-15.25	-0.008802		
	-10	-12.89	-0.007440		
	0	-13.46	-0.007769		
	10	-11.03	-0.006366		
	20	-7.81	-0.004508		
	30	-5.36	-0.003094		
	40	-15.64	-0.009027		
	50	-6.18	-0.003567		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-10.19	-0.005881	Within authorized band for BAND IV	Pass
	3.87	-12.46	-0.007192		
	4.45	-12.81	-0.007394		
<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		
3.87	-30	-13.24	-0.007043	Within authorized band for BAND II	Pass
	-20	-14.48	-0.007702		
	-10	-12.52	-0.006660		
	0	-13.22	-0.007032		
	10	-12.85	-0.006835		
	20	-12.88	-0.006851		
	30	-13.69	-0.007282		
	40	-11.37	-0.006048		
	50	-12.85	-0.006835		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-15.35	-0.008165	Within authorized band for BAND II	Pass
	3.87	-18.53	-0.009856		
	4.45	-14.61	-0.007771		
<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

