

## Appendix A: 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	23.89	23.13	33.01	PASS
Band2	TestMode	9262	23.88	23.12	33.01	PASS
Band2	TestMode	9400	23.75	22.99	33.01	PASS
Band2	Voice	9400	23.74	22.98	33.01	PASS
Band2	TestMode	9538	23.85	23.09	33.01	PASS
Band2	Voice	9538	23.80	23.04	33.01	PASS
Band4	Voice	1312	23.10	23.42	30.00	PASS
Band4	TestMode	1312	23.14	23.46	30.00	PASS
Band4	Voice	1413	23.35	23.67	30.00	PASS
Band4	TestMode	1413	23.43	23.75	30.00	PASS
Band4	TestMode	1513	23.14	23.46	30.00	PASS
Band4	Voice	1513	23.10	23.42	30.00	PASS
Band5	Voice	4132	23.91	18.38	38.45	PASS
Band5	TestMode	4132	23.90	18.37	38.45	PASS
Band5	TestMode	4183	24.02	18.49	38.45	PASS
Band5	Voice	4183	24.01	18.48	38.45	PASS
Band5	Voice	4233	23.96	18.43	38.45	PASS
Band5	TestMode	4233	24.00	18.47	38.45	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.92	22.16	33.01	PASS
Band2	9262	2	22.36	21.6	33.01	PASS
Band2	9262	3	22.36	21.6	33.01	PASS
Band2	9262	4	22.34	21.58	33.01	PASS
Band2	9400	1	22.75	21.99	33.01	PASS
Band2	9400	2	22.20	21.44	33.01	PASS
Band2	9400	3	22.22	21.46	33.01	PASS
Band2	9400	4	22.19	21.43	33.01	PASS
Band2	9538	1	22.85	22.09	33.01	PASS
Band2	9538	2	22.30	21.54	33.01	PASS
Band2	9538	3	22.34	21.58	33.01	PASS
Band2	9538	4	22.35	21.59	33.01	PASS
Band4	1312	1	22.15	22.47	30.00	PASS
Band4	1312	2	21.64	21.96	30.00	PASS

Band4	1312	3	21.69	22.01	30.00	PASS
Band4	1312	4	21.63	21.95	30.00	PASS
Band4	1413	1	22.40	22.72	30.00	PASS
Band4	1413	2	21.93	22.25	30.00	PASS
Band4	1413	3	21.98	22.3	30.00	PASS
Band4	1413	4	21.94	22.26	30.00	PASS
Band4	1513	1	22.15	22.47	30.00	PASS
Band4	1513	2	21.69	22.01	30.00	PASS
Band4	1513	3	21.71	22.03	30.00	PASS
Band4	1513	4	21.68	22	30.00	PASS
Band5	4132	1	22.96	17.43	38.5	PASS
Band5	4132	2	22.38	16.85	38.5	PASS
Band5	4132	3	22.41	16.88	38.5	PASS
Band5	4132	4	22.38	16.85	38.5	PASS
Band5	4183	1	23.09	17.56	38.5	PASS
Band5	4183	2	22.51	16.98	38.5	PASS
Band5	4183	3	22.56	17.03	38.5	PASS
Band5	4183	4	22.55	17.02	38.5	PASS
Band5	4233	1	23.06	17.53	38.5	PASS
Band5	4233	2	22.51	16.98	38.5	PASS
Band5	4233	3	22.51	16.98	38.5	PASS
Band5	4233	4	22.48	16.95	38.5	PASS

**Test Result(HSUPA)**

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.90	20.14	33.01	PASS
Band2	9262	2	21.39	20.63	33.01	PASS
Band2	9262	3	21.88	21.12	33.01	PASS
Band2	9262	4	20.91	20.15	33.01	PASS
Band2	9262	5	22.88	22.12	33.01	PASS
Band2	9400	1	20.75	19.99	33.01	PASS
Band2	9400	2	21.24	20.48	33.01	PASS
Band2	9400	3	21.70	20.94	33.01	PASS
Band2	9400	4	20.77	20.01	33.01	PASS
Band2	9400	5	22.71	21.95	33.01	PASS
Band2	9538	1	20.81	20.05	33.01	PASS
Band2	9538	2	21.33	20.57	33.01	PASS
Band2	9538	3	21.81	21.05	33.01	PASS
Band2	9538	4	20.85	20.09	33.01	PASS
Band2	9538	5	22.81	22.05	33.01	PASS
Band4	1312	1	20.22	20.54	30.00	PASS

Band4	1312	2	20.68	21	30.00	PASS
Band4	1312	3	21.19	21.51	30.00	PASS
Band4	1312	4	20.21	20.53	30.00	PASS
Band4	1312	5	22.18	22.5	30.00	PASS
Band4	1413	1	20.49	20.81	30.00	PASS
Band4	1413	2	20.98	21.3	30.00	PASS
Band4	1413	3	21.45	21.77	30.00	PASS
Band4	1413	4	20.46	20.78	30.00	PASS
Band4	1413	5	22.46	22.78	30.00	PASS
Band4	1513	1	20.21	20.53	30.00	PASS
Band4	1513	2	20.71	21.03	30.00	PASS
Band4	1513	3	21.20	21.52	30.00	PASS
Band4	1513	4	20.21	20.53	30.00	PASS
Band4	1513	5	22.18	22.5	30.00	PASS
Band5	4132	1	20.99	15.46	38.5	PASS
Band5	4132	2	21.47	15.94	38.5	PASS
Band5	4132	3	21.99	16.46	38.5	PASS
Band5	4132	4	21.03	15.5	38.5	PASS
Band5	4132	5	22.98	17.45	38.5	PASS
Band5	4183	1	21.15	15.62	38.5	PASS
Band5	4183	2	21.64	16.11	38.5	PASS
Band5	4183	3	22.11	16.58	38.5	PASS
Band5	4183	4	21.15	15.62	38.5	PASS
Band5	4183	5	23.11	17.58	38.5	PASS
Band5	4233	1	21.09	15.56	38.5	PASS
Band5	4233	2	21.58	16.05	38.5	PASS
Band5	4233	3	22.05	16.52	38.5	PASS
Band5	4233	4	21.09	15.56	38.5	PASS
Band5	4233	5	23.11	17.58	38.5	PASS

*Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2 & 4)*

*ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)*

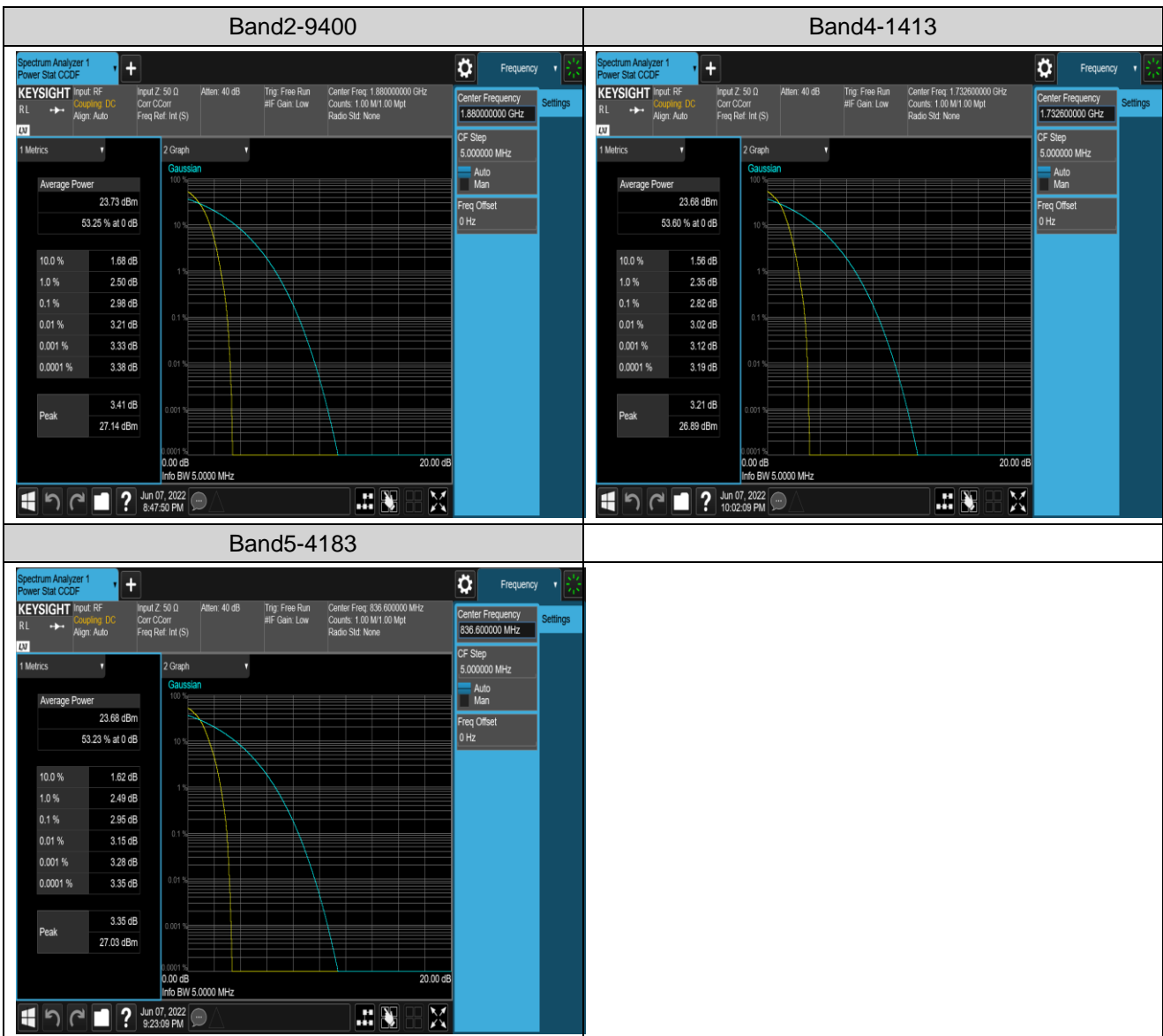
## Appendix B: Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.98	13	PASS
Band4	1413	2.82	13	PASS
Band5	4183	2.95	13	PASS

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

### Test Graphs(WCDMA)



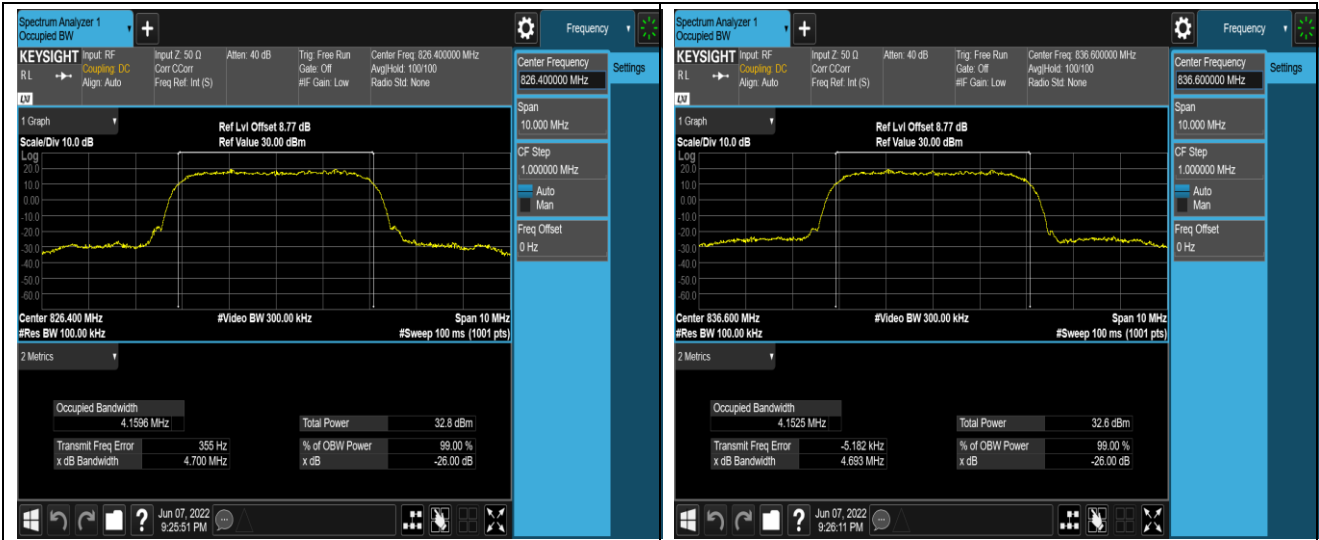
## AppendixC:26dB Bandwidth andOccupied Bandwidth

### Test Result(WCDMA)

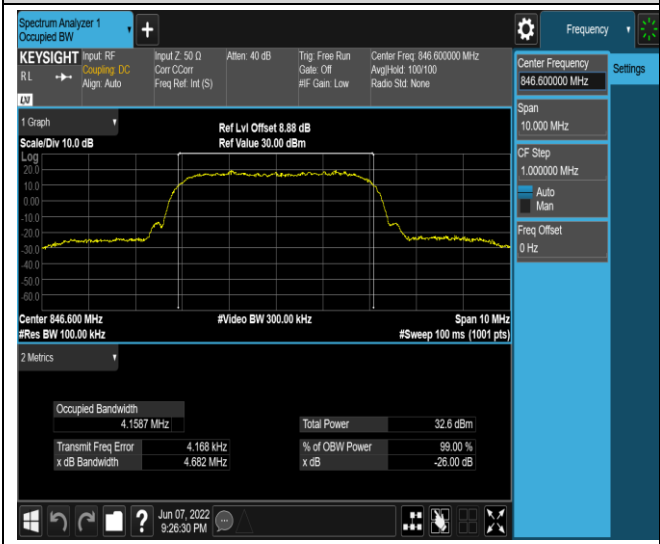
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1557	4.698	---	PASS
Band2	9400	4.1566	4.704	---	PASS
Band2	9538	4.1554	4.699	---	PASS
Band4	1312	4.1632	4.698	---	PASS
Band4	1413	4.1678	4.727	---	PASS
Band4	1513	4.1608	4.695	---	PASS
Band5	4132	4.1596	4.700	---	PASS
Band5	4183	4.1525	4.693	---	PASS
Band5	4233	4.1587	4.682	---	PASS

Test Graphs(WCDMA)





Band5-4233

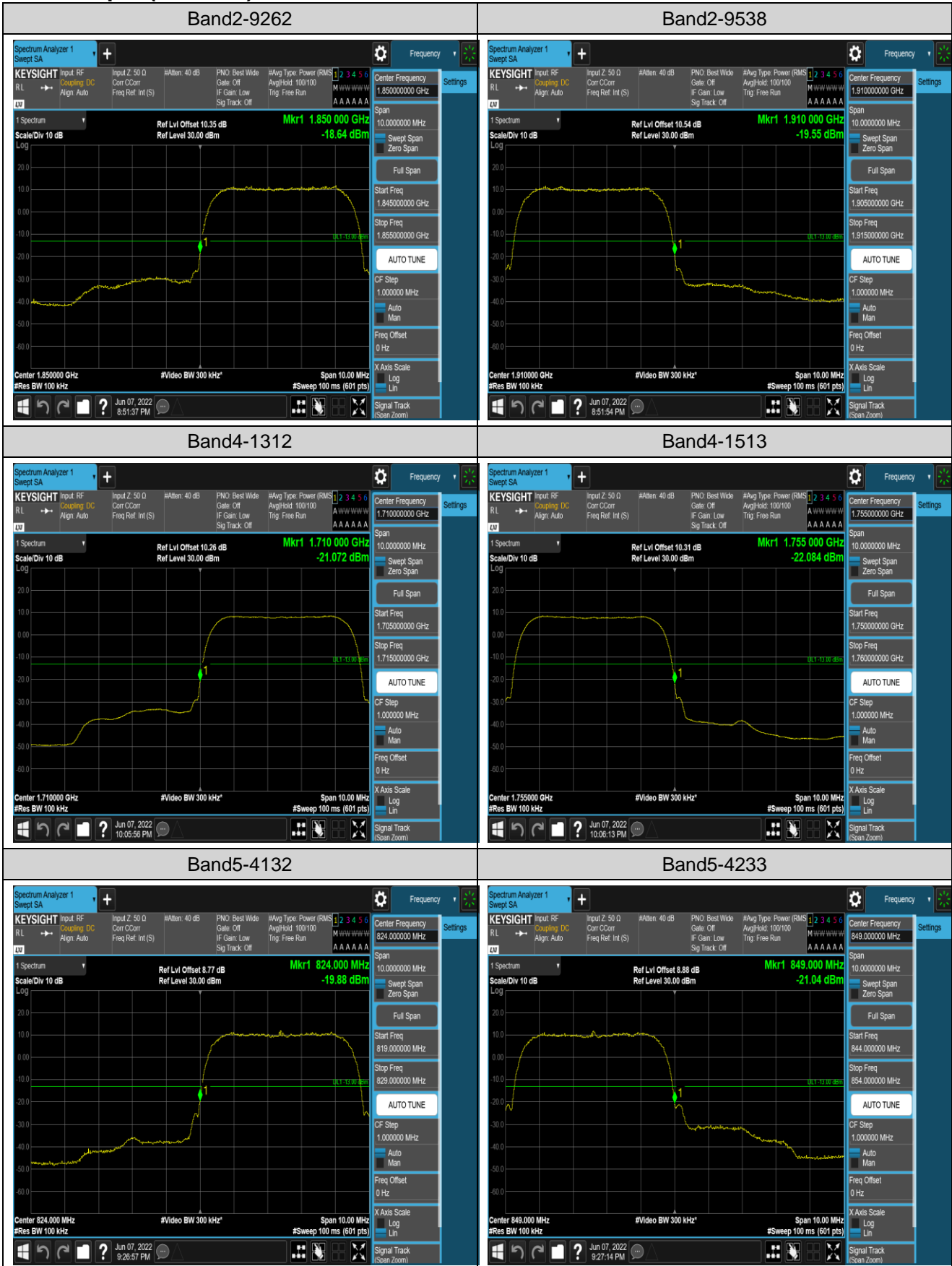


**AppendixD:Band Edge****Test Result(WCDMA)**

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.64	-13	PASS
Band2	9538	1910.00	-19.55	-13	PASS
Band4	1312	1710.00	-21.07	-13	PASS
Band4	1513	1755.00	-22.08	-13	PASS
Band5	4132	824.00	-19.88	-13	PASS
Band5	4233	849.00	-21.04	-13	PASS



Test Graphs(WCDMA)



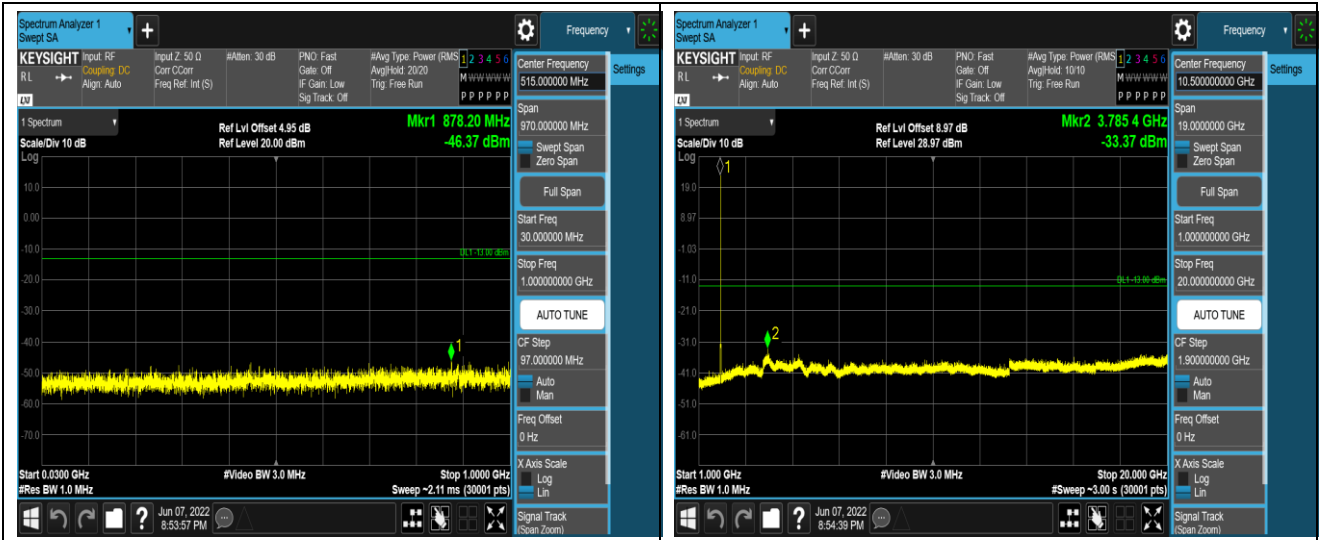
## Appendix E: Conducted Spurious Emission

### Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-56.25	-43	PASS
Band2	9262	0.15~30MHz	0.16	-55.47	-23	PASS
Band2	9262	30~1000MHz	801.02	-46.54	-13	PASS
Band2	9262	1000~20000MHz	19294.47	-34.83	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.86	-43	PASS
Band2	9400	0.15~30MHz	0.16	-55.85	-23	PASS
Band2	9400	30~1000MHz	878.2	-46.37	-13	PASS
Band2	9400	1000~20000MHz	3785.4	-33.37	-13	PASS
Band2	9538	0.009~0.15MHz	0.02	-57.37	-43	PASS
Band2	9538	0.15~30MHz	0.15	-55.29	-23	PASS
Band2	9538	30~1000MHz	727.43	-46.72	-13	PASS
Band2	9538	1000~20000MHz	19108.9	-34.9	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-57.09	-43	PASS
Band4	1312	0.15~30MHz	0.17	-57.85	-23	PASS
Band4	1312	30~1000MHz	778.29	-46.93	-13	PASS
Band4	1312	1000~20000MHz	3808.2	-34.03	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-57.55	-43	PASS
Band4	1413	0.15~30MHz	0.15	-56.43	-23	PASS
Band4	1413	30~1000MHz	851.75	-46.86	-13	PASS
Band4	1413	1000~20000MHz	19950.6	-34.94	-13	PASS
Band4	1513	0.009~0.15MHz	0.02	-57.09	-43	PASS
Band4	1513	0.15~30MHz	0.16	-56.04	-23	PASS
Band4	1513	30~1000MHz	826.63	-46.74	-13	PASS
Band4	1513	1000~20000MHz	19965.8	-35	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-57.2	-33	PASS
Band5	4132	0.15~30MHz	0.17	-56.57	-13	PASS
Band5	4132	30~1000MHz	929.16	-55.8	-13	PASS
Band5	4132	1000~10000MHz	3836.5	-34.12	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-54.14	-33	PASS
Band5	4183	0.15~30MHz	0.18	-57.63	-13	PASS
Band5	4183	30~1000MHz	490.91	-55.96	-13	PASS
Band5	4183	1000~10000MHz	3736.6	-34.8	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.81	-33	PASS
Band5	4233	0.15~30MHz	0.16	-56.91	-13	PASS
Band5	4233	30~1000MHz	999.61	-55.65	-13	PASS
Band5	4233	1000~10000MHz	3810.4	-34.71	-13	PASS

Test Graphs(WCDMA)



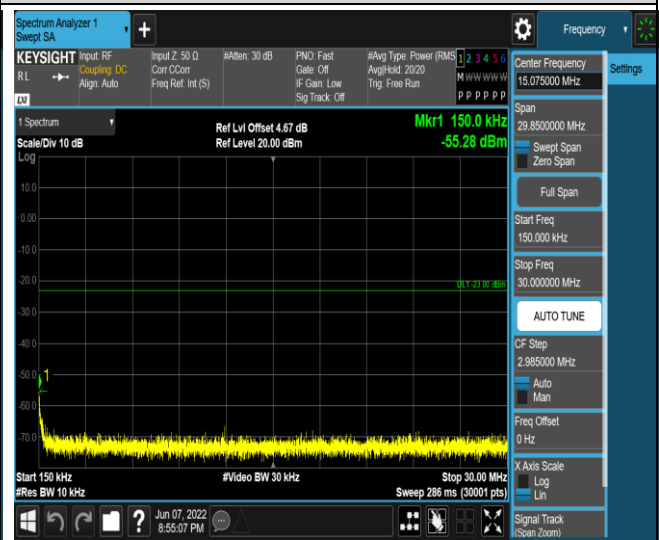


Band2-9538-0.009~0.15MHz

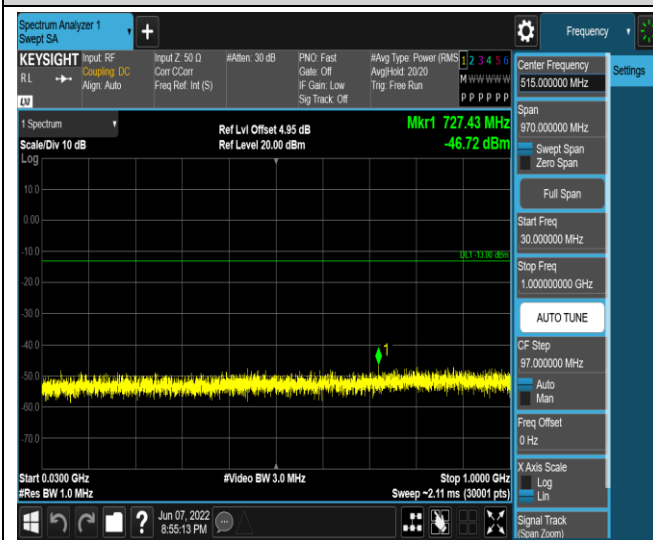
Band2-9538-0.15~30MHz



Band2-9538-30~1000MHz



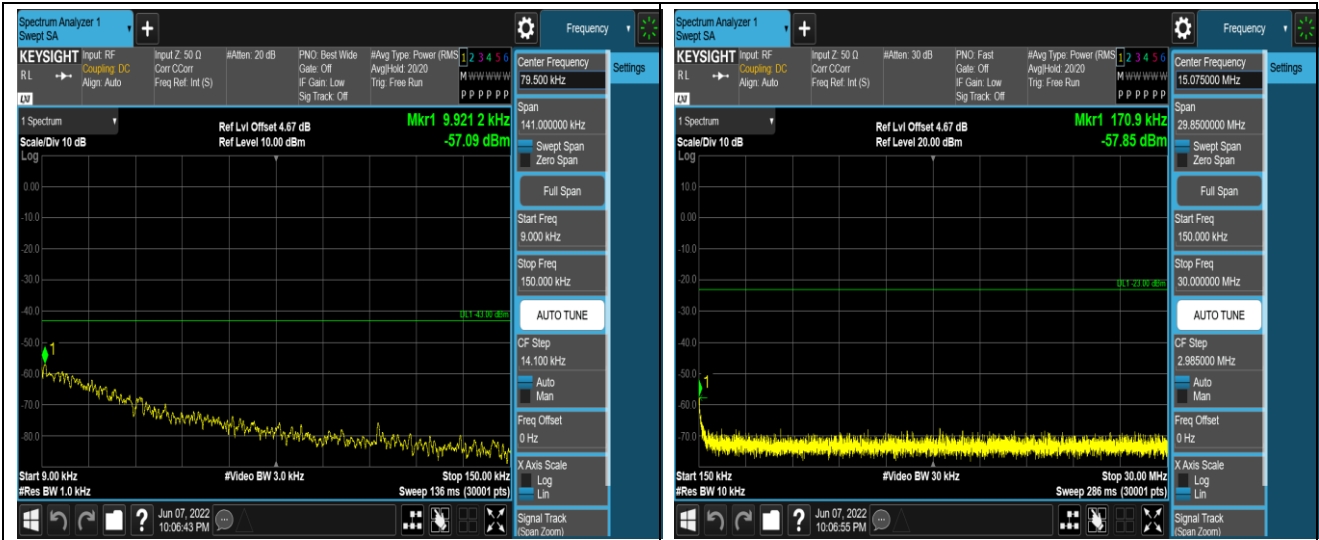
Band2-9538-1000~20000MHz



Band4-1312-0.009~0.15MHz

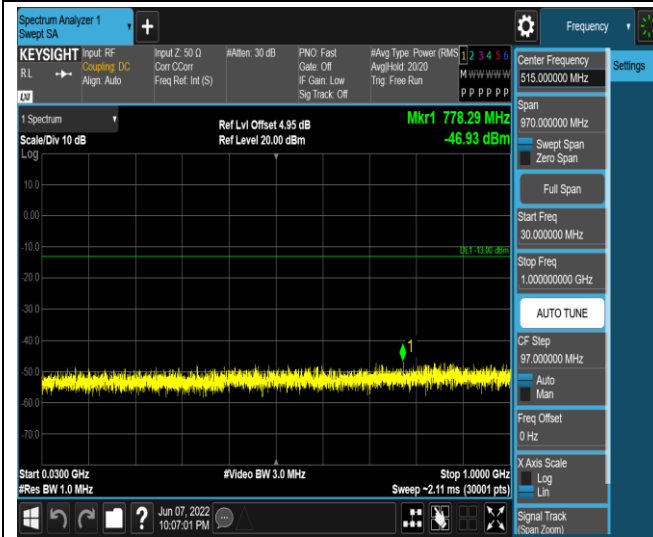


Band4-1312-0.15~30MHz



Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz



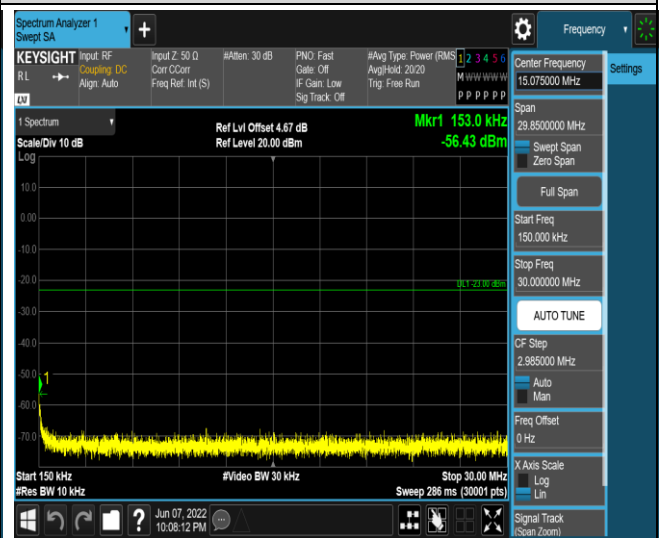
Band4-1413-0.009~0.15MHz



Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz

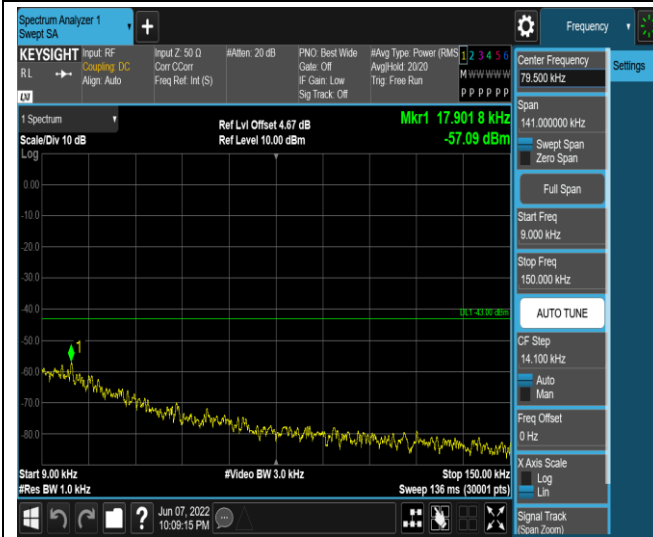


Band4-1413-1000~20000MHz

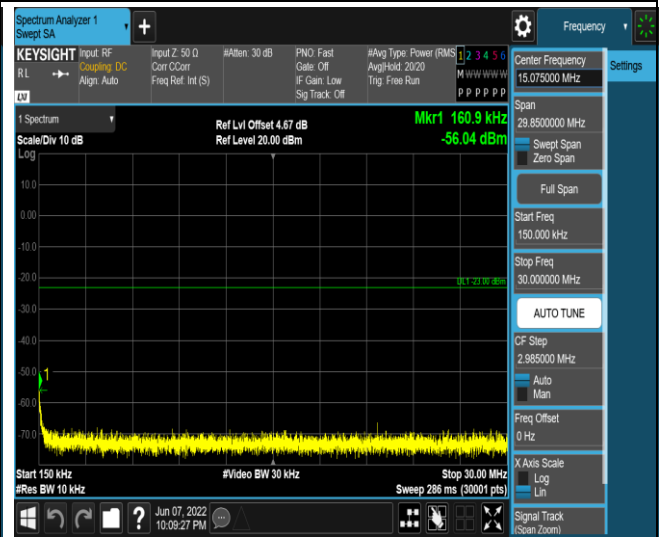


Band4-1513-0.009~0.15MHz

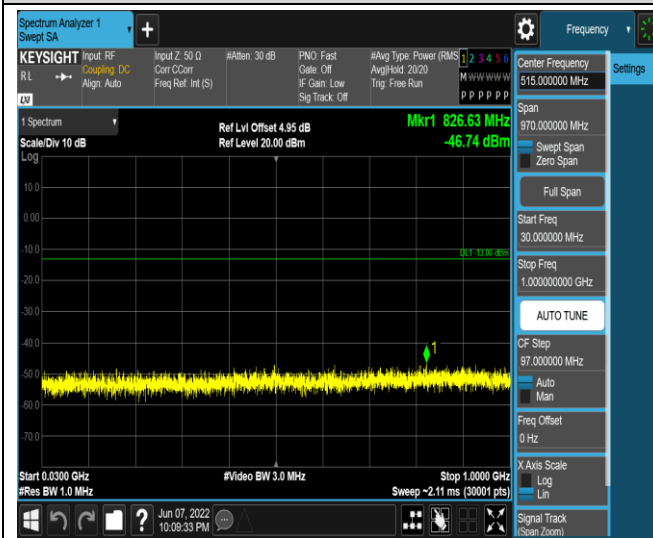
Band4-1513-0.15~30MHz



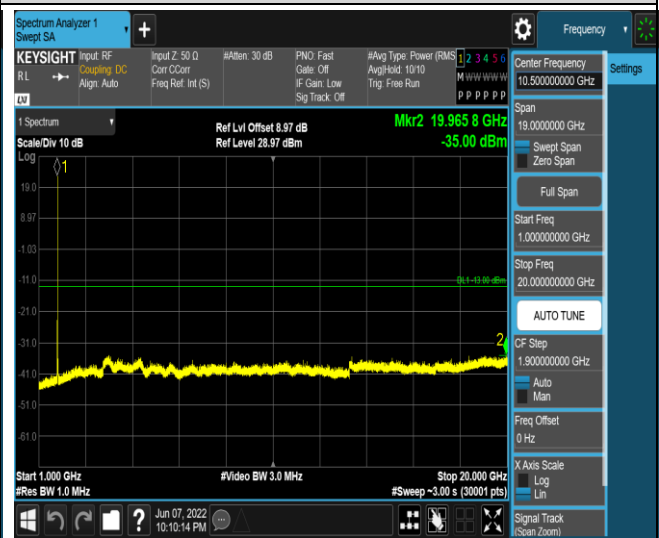
Band4-1513-30~1000MHz



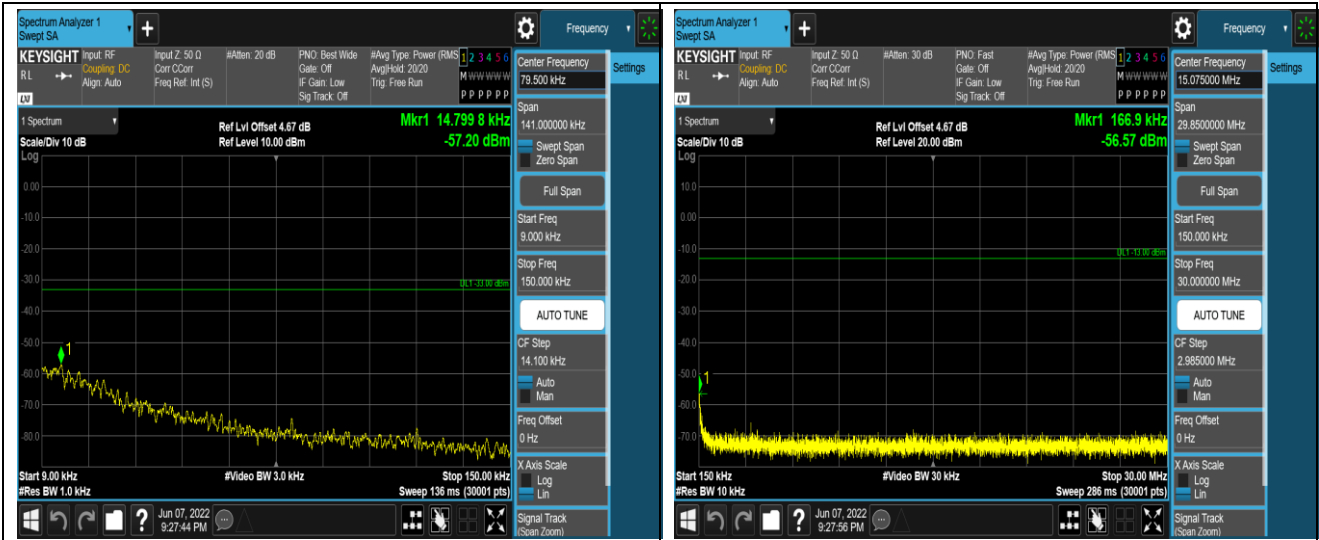
Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

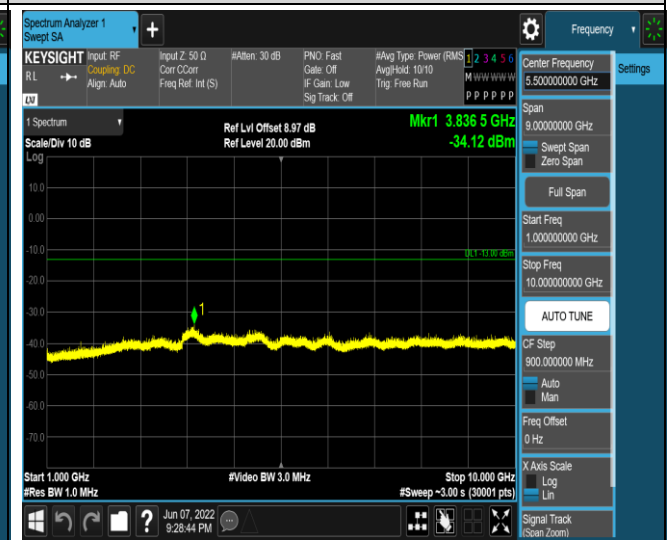
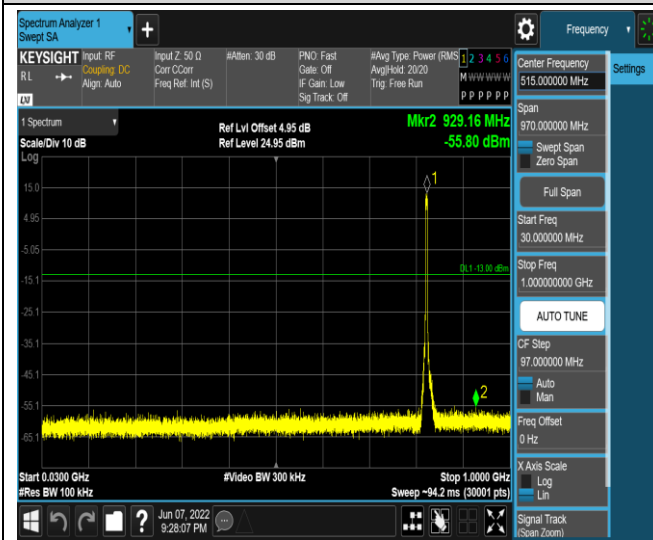


Band5-4132-0.15~30MHz



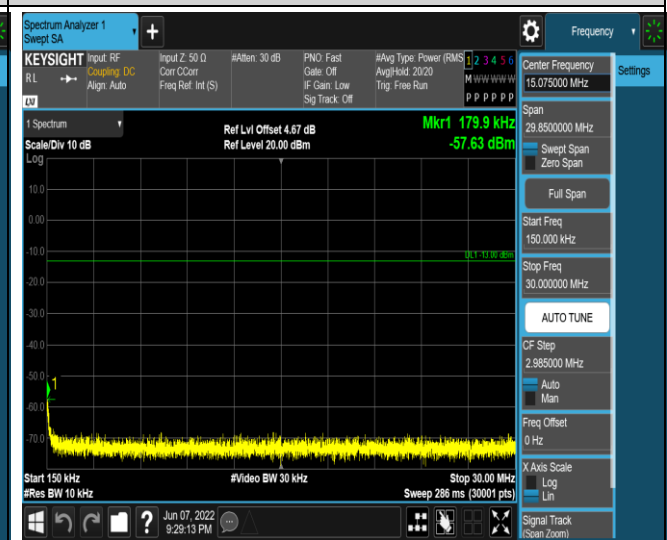
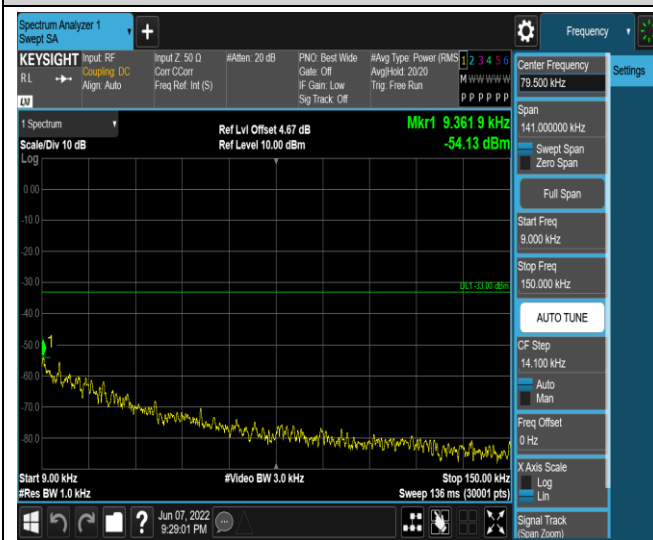
Band5-4132-30~1000MHz

Band5-4132-1000~10000MHz



Band5-4183-0.009~0.15MHz

Band5-4183-0.15~30MHz



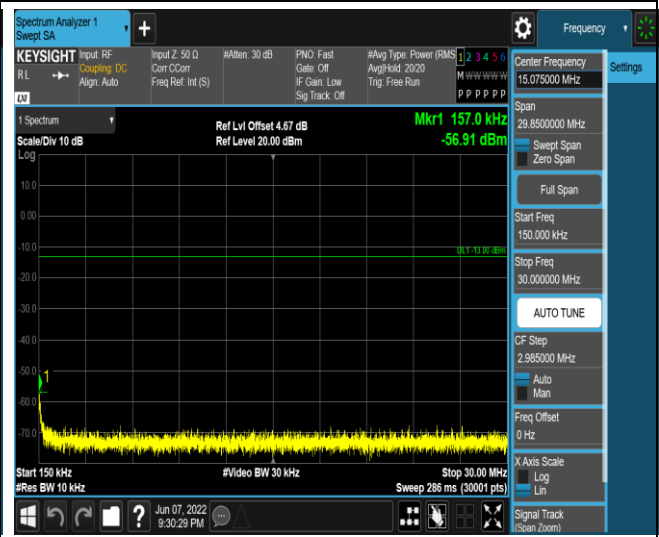
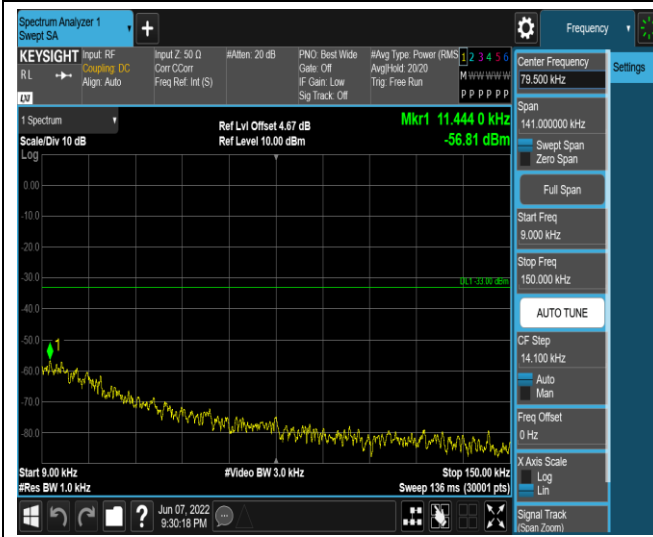
Band5-4183-30~1000MHz

Band5-4183-1000~10000MHz



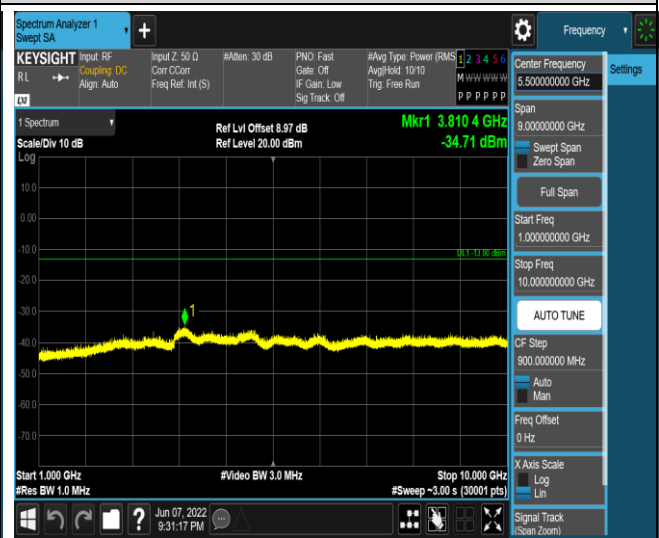
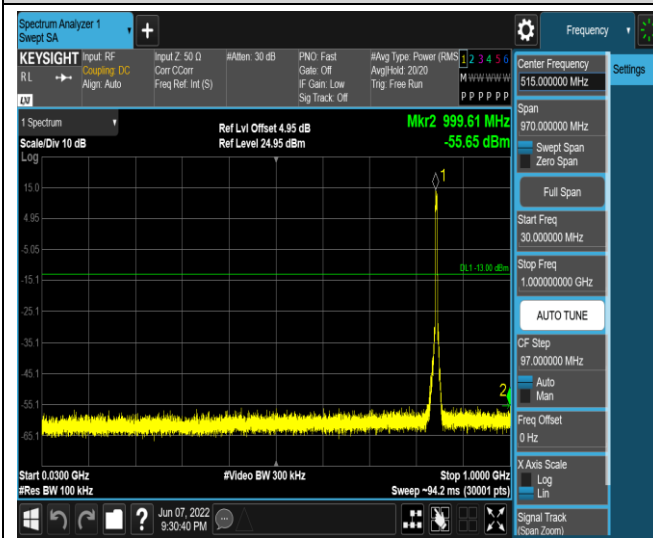
Band5-4233-0.009~0.15MHz

Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz

Band5-4233-1000~10000MHz





## 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		
3.87	-30	-2.58	-0.003084	±2.5	Pass
	-20	-3.98	-0.004757		
	-10	-2.37	-0.002833		
	0	-4.16	-0.004973		
	10	-4.46	-0.005331		
	20	-2.57	-0.003072		
	30	-4.06	-0.004853		
	40	-1.67	-0.001996		
	50	-2.23	-0.002666		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	Ppm		
25	3.45	-4.53	-0.005415	±2.5	Pass
	3.87	-4.61	-0.005510		
	4.45	-3.22	-0.003849		
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	-3.48	-0.002009	Within authorized band for BAND IV	Pass
	-20	-5.68	-0.003278		
	-10	-2.30	-0.001327		
	0	-5.51	-0.003180		
	10	-5.57	-0.003215		
	20	-3.90	-0.002251		
	30	-3.31	-0.001910		
	40	-3.51	-0.002026		
	50	-5.28	-0.003047		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-3.99	-0.002303	Within authorized band for BAND IV	Pass
	3.87	-9.90	-0.005714		
	4.45	-5.39	-0.003111		
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		
3.87	-30	-3.26	-0.001734	Within authorized band for BAND II	Pass
	-20	-1.32	-0.000702		
	-10	-3.55	-0.001888		
	0	1.37	0.000729		
	10	-2.22	-0.001181		
	20	-4.21	-0.002239		
	30	-0.31	-0.000165		
	40	-2.81	-0.001495		
	50	-4.76	-0.002532		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-1.93	-0.001027	Within authorized band for BAND II	Pass
	3.87	-3.31	-0.001761		
	4.45	-2.12	-0.001128		
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

