

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	23.66	22.76	33	PASS
Band2	TestMode	9262	23.74	22.84	33	PASS
Band2	TestMode	9400	23.78	22.88	33	PASS
Band2	Voice	9400	23.72	22.82	33	PASS
Band2	TestMode	9538	23.90	23.00	33	PASS
Band2	Voice	9538	23.84	22.94	33	PASS
Band4	Voice	1312	23.53	22.63	30	PASS
Band4	TestMode	1312	23.54	22.64	30	PASS
Band4	Voice	1413	23.45	22.55	30	PASS
Band4	TestMode	1413	23.49	22.59	30	PASS
Band4	TestMode	1513	23.54	22.64	30	PASS
Band4	Voice	1513	23.52	22.62	30	PASS
Band5	Voice	4132	23.86	20.81	38.5	PASS
Band5	TestMode	4132	23.94	20.89	38.5	PASS
Band5	TestMode	4183	24.10	21.05	38.5	PASS
Band5	Voice	4183	24.17	21.12	38.5	PASS
Band5	Voice	4233	23.98	20.93	38.5	PASS
Band5	TestMode	4233	24.02	20.97	38.5	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.76	21.86	33	PASS
Band2	9262	2	22.20	21.30	33	PASS
Band2	9262	3	22.20	21.30	33	PASS
Band2	9262	4	22.19	21.29	33	PASS
Band2	9400	1	22.76	21.86	33	PASS
Band2	9400	2	22.20	21.30	33	PASS
Band2	9400	3	22.19	21.29	33	PASS
Band2	9400	4	22.18	21.28	33	PASS
Band2	9538	1	22.91	22.01	33	PASS
Band2	9538	2	22.30	21.40	33	PASS
Band2	9538	3	22.38	21.48	33	PASS
Band2	9538	4	22.39	21.49	33	PASS

Band4	1312	1	22.57	21.67	30	PASS
Band4	1312	2	22.03	21.13	30	PASS
Band4	1312	3	22.07	21.17	30	PASS
Band4	1312	4	22.02	21.12	30	PASS
Band4	1413	1	22.51	21.61	30	PASS
Band4	1413	2	21.96	21.06	30	PASS
Band4	1413	3	22.00	21.10	30	PASS
Band4	1413	4	21.95	21.05	30	PASS
Band4	1513	1	22.54	21.64	30	PASS
Band4	1513	2	22.06	21.16	30	PASS
Band4	1513	3	22.07	21.17	30	PASS
Band4	1513	4	22.04	21.14	30	PASS
Band5	4132	1	22.99	17.34	38.5	PASS
Band5	4132	2	22.47	16.82	38.5	PASS
Band5	4132	3	22.47	16.82	38.5	PASS
Band5	4132	4	22.44	16.79	38.5	PASS
Band5	4183	1	23.21	17.56	38.5	PASS
Band5	4183	2	22.68	17.03	38.5	PASS
Band5	4183	3	22.67	17.02	38.5	PASS
Band5	4183	4	22.66	17.01	38.5	PASS
Band5	4233	1	23.07	17.42	38.5	PASS
Band5	4233	2	22.55	16.9	38.5	PASS
Band5	4233	3	22.56	16.91	38.5	PASS
Band5	4233	4	22.53	16.88	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	20.68	19.78	33	PASS
Band2	9262	2	21.20	20.30	33	PASS
Band2	9262	3	21.72	20.82	33	PASS
Band2	9262	4	20.74	19.84	33	PASS
Band2	9262	5	22.71	21.81	33	PASS
Band2	9400	1	20.72	19.82	33	PASS
Band2	9400	2	21.20	20.30	33	PASS
Band2	9400	3	21.72	20.82	33	PASS
Band2	9400	4	20.73	19.83	33	PASS
Band2	9400	5	22.72	21.82	33	PASS
Band2	9538	1	20.83	19.93	33	PASS
Band2	9538	2	21.36	20.46	33	PASS
Band2	9538	3	21.86	20.96	33	PASS

Band2	9538	4	20.88	19.98	33	PASS
Band2	9538	5	22.85	21.95	33	PASS
Band4	1312	1	20.61	19.71	30	PASS
Band4	1312	2	21.03	20.13	30	PASS
Band4	1312	3	21.55	20.65	30	PASS
Band4	1312	4	20.58	19.68	30	PASS
Band4	1312	5	22.56	21.66	30	PASS
Band4	1413	1	20.54	19.64	30	PASS
Band4	1413	2	21.00	20.10	30	PASS
Band4	1413	3	21.48	20.58	30	PASS
Band4	1413	4	20.55	19.65	30	PASS
Band4	1413	5	22.53	21.63	30	PASS
Band4	1513	1	20.54	19.64	30	PASS
Band4	1513	2	21.07	20.17	30	PASS
Band4	1513	3	21.55	20.65	30	PASS
Band4	1513	4	20.56	19.66	30	PASS
Band4	1513	5	22.58	21.68	30	PASS
Band5	4132	1	20.96	15.31	38.5	PASS
Band5	4132	2	21.47	15.82	38.5	PASS
Band5	4132	3	22.00	16.35	38.5	PASS
Band5	4132	4	21.03	15.38	38.5	PASS
Band5	4132	5	22.99	17.34	38.5	PASS
Band5	4183	1	21.18	15.53	38.5	PASS
Band5	4183	2	21.67	16.02	38.5	PASS
Band5	4183	3	22.17	16.52	38.5	PASS
Band5	4183	4	21.21	15.56	38.5	PASS
Band5	4183	5	23.20	17.55	38.5	PASS
Band5	4233	1	21.10	15.45	38.5	PASS
Band5	4233	2	21.30	15.65	38.5	PASS
Band5	4233	3	22.07	16.42	38.5	PASS
Band5	4233	4	21.12	15.47	38.5	PASS
Band5	4233	5	23.06	17.41	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)

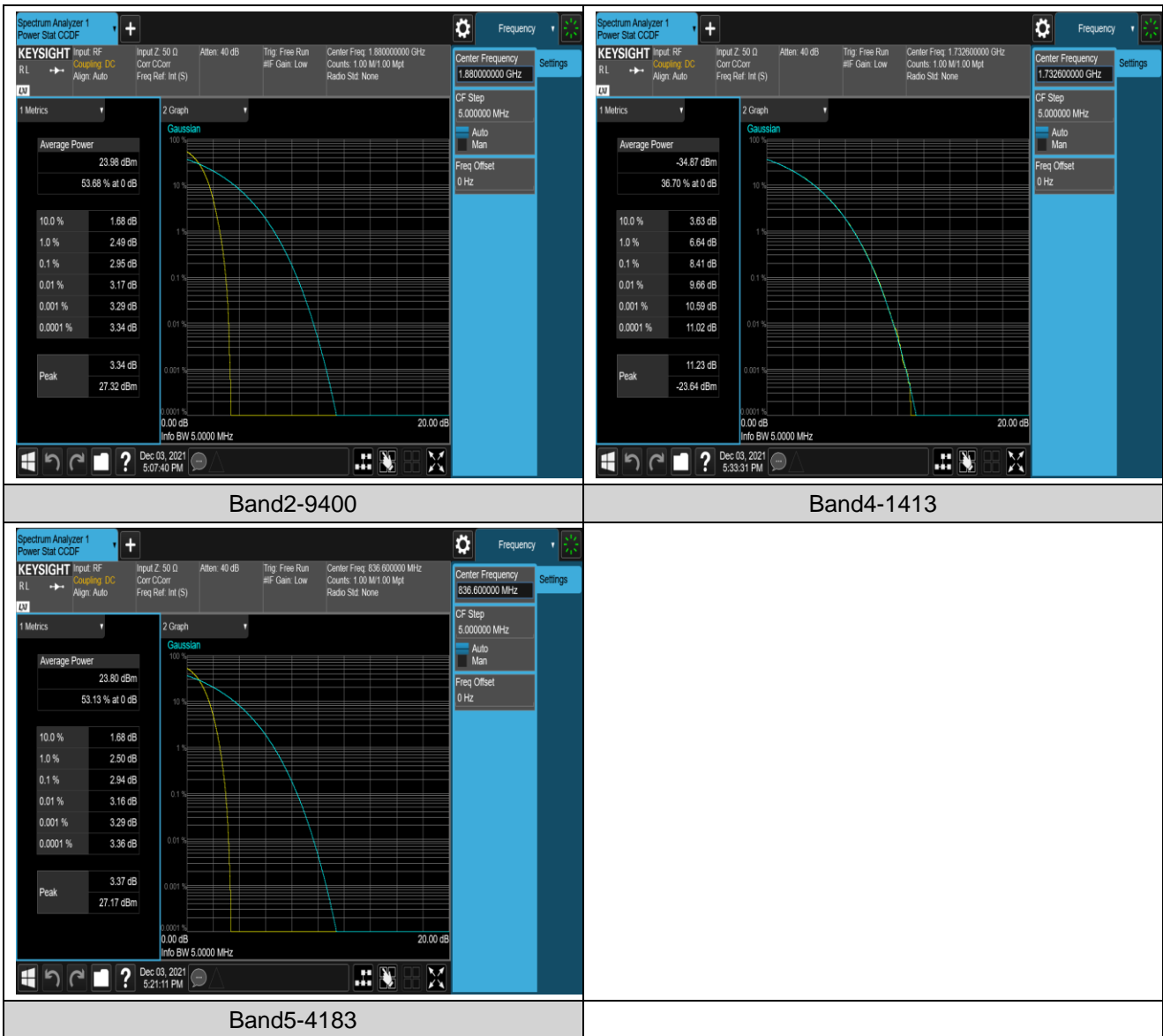
Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.95	13	PASS
Band4	1413	8.41	13	PASS
Band5	4183	2.94	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	4.1676	4.700	---	PASS
Band2	9400	4.1689	4.703	---	PASS
Band2	9538	4.1658	4.703	---	PASS
Band4	1312	4.1651	4.702	---	PASS
Band4	1413	4.1625	4.716	---	PASS
Band4	1513	4.1634	4.702	---	PASS
Band5	4132	4.1606	4.700	---	PASS
Band5	4183	4.1637	4.699	---	PASS
Band5	4233	4.1586	4.696	---	PASS

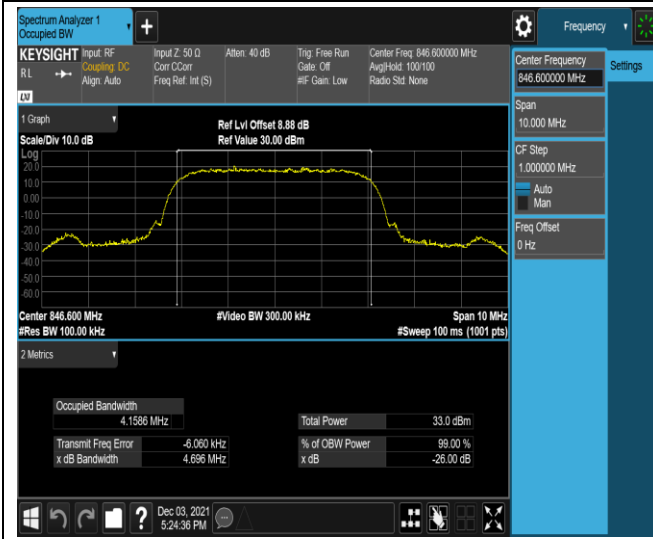
Test Graphs(WCDMA)





Band5-4132-4.700

Band5-4183-4.699



Band5-4233-4.696

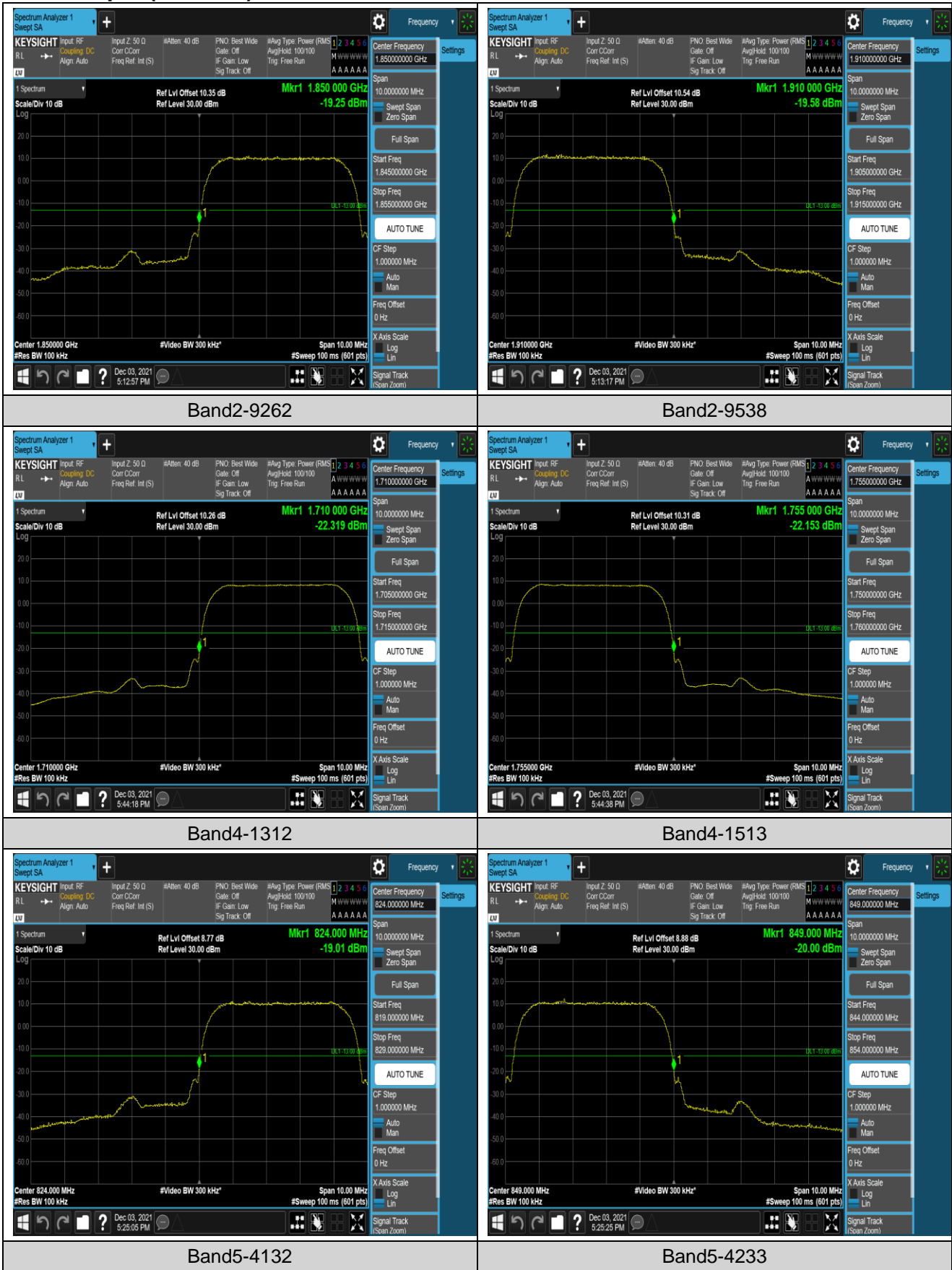


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-19.25	-13	PASS
Band2	9538	1910.00	-19.58	-13	PASS
Band4	1312	1710.00	-22.32	-13	PASS
Band4	1513	1755.00	-22.15	-13	PASS
Band5	4132	824.00	-19.01	-13	PASS
Band5	4233	849.00	-20.00	-13	PASS

Test Graphs(WCDMA)

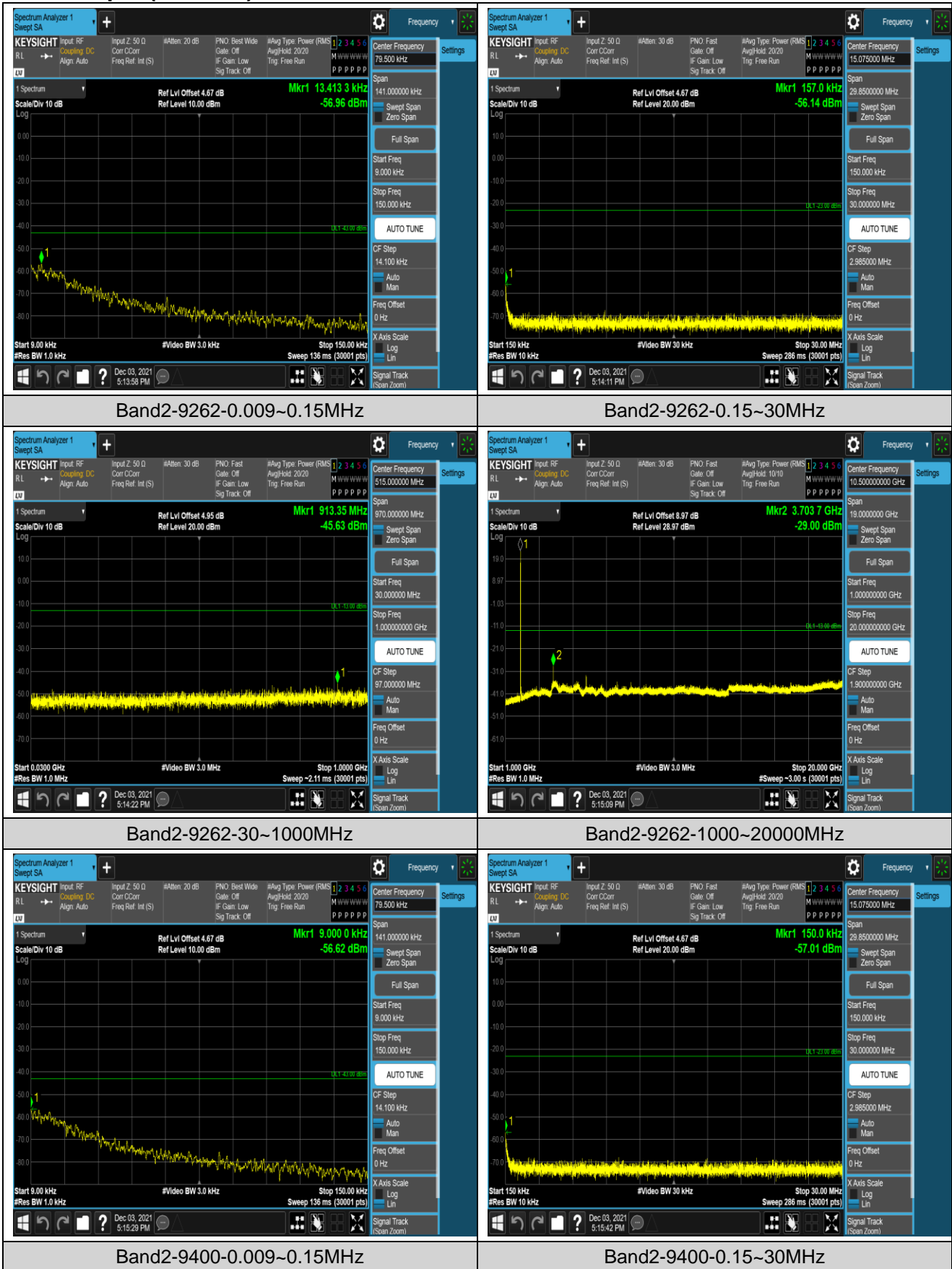


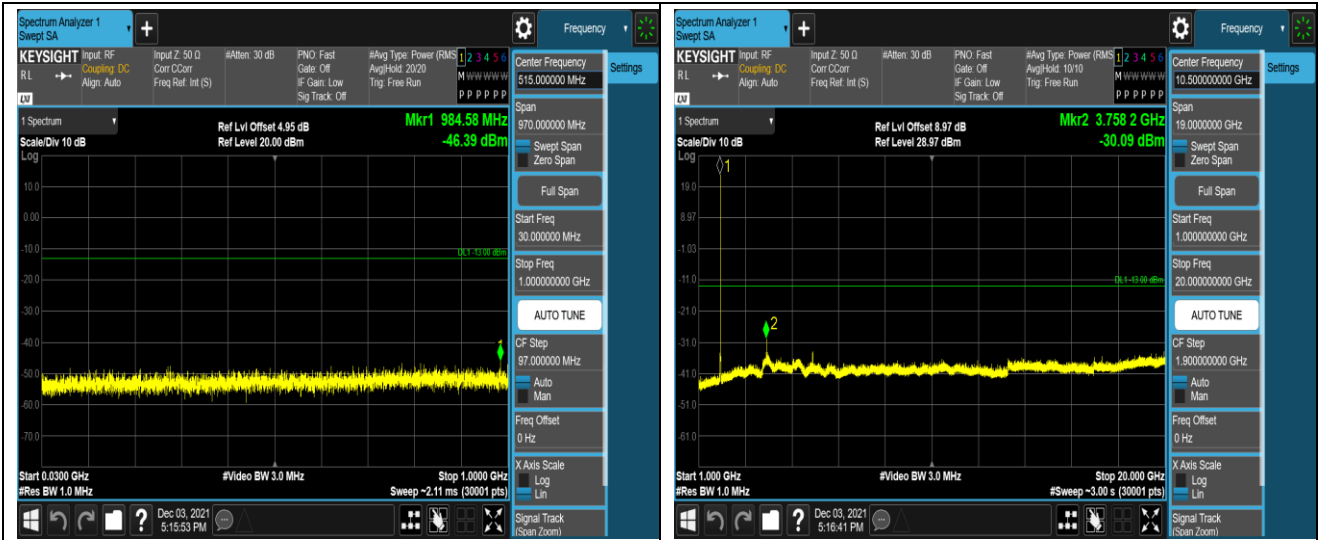
Appendix E: Conducted Spurious Emission

Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-56.96	-43	PASS
Band2	9262	0.15~30MHz	0.16	-56.14	-23	PASS
Band2	9262	30~1000MHz	913.35	-45.63	-13	PASS
Band2	9262	1000~20000MHz	3703.7	-29	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.62	-43	PASS
Band2	9400	0.15~30MHz	0.15	-57.01	-23	PASS
Band2	9400	30~1000MHz	984.58	-46.39	-13	PASS
Band2	9400	1000~20000MHz	3758.17	-30.09	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.15	-43	PASS
Band2	9538	0.15~30MHz	0.17	-56.72	-23	PASS
Band2	9538	30~1000MHz	434.59	-47.01	-13	PASS
Band2	9538	1000~20000MHz	3816.43	-28.86	-13	PASS
Band4	1312	0.009~0.15MHz	0.02	-57.89	-43	PASS
Band4	1312	0.15~30MHz	0.16	-56.69	-23	PASS
Band4	1312	30~1000MHz	893.4	-46.35	-13	PASS
Band4	1312	1000~20000MHz	3834.17	-34.2	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-57	-43	PASS
Band4	1413	0.15~30MHz	0.15	-57.28	-23	PASS
Band4	1413	30~1000MHz	981.8	-47	-13	PASS
Band4	1413	1000~20000MHz	19526.27	-34.39	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.68	-43	PASS
Band4	1513	0.15~30MHz	0.15	-56.68	-23	PASS
Band4	1513	30~1000MHz	902.55	-45.65	-13	PASS
Band4	1513	1000~20000MHz	19317.9	-34.24	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.67	-33	PASS
Band5	4132	0.15~30MHz	0.15	-56.37	-13	PASS
Band5	4132	30~1000MHz	935.75	-55.79	-13	PASS
Band5	4132	1000~10000MHz	3804.1	-34.57	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.61	-33	PASS
Band5	4183	0.15~30MHz	0.15	-56.73	-13	PASS
Band5	4183	30~1000MHz	619.82	-55.81	-13	PASS
Band5	4183	1000~10000MHz	5049.1	-34.03	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.53	-33	PASS
Band5	4233	0.15~30MHz	0.15	-57.41	-13	PASS
Band5	4233	30~1000MHz	434.98	-56.08	-13	PASS
Band5	4233	1000~10000MHz	3762.1	-34.43	-13	PASS

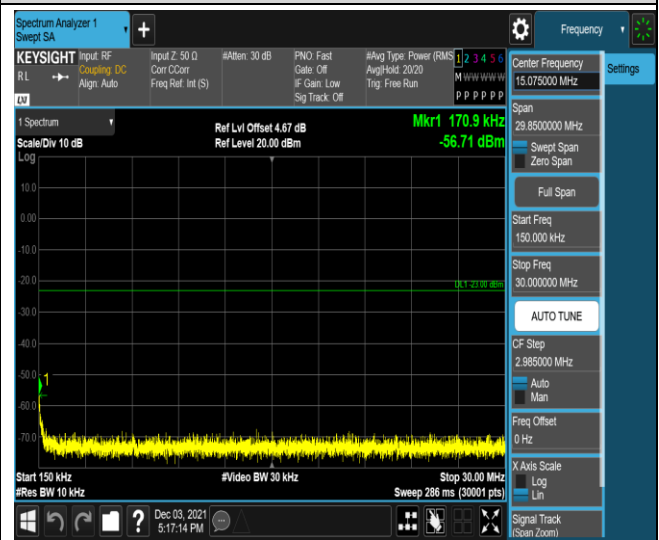
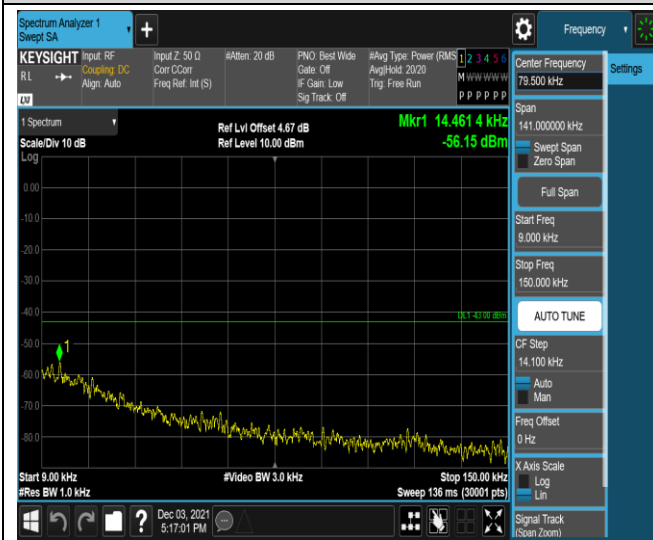
Test Graphs(WCDMA)





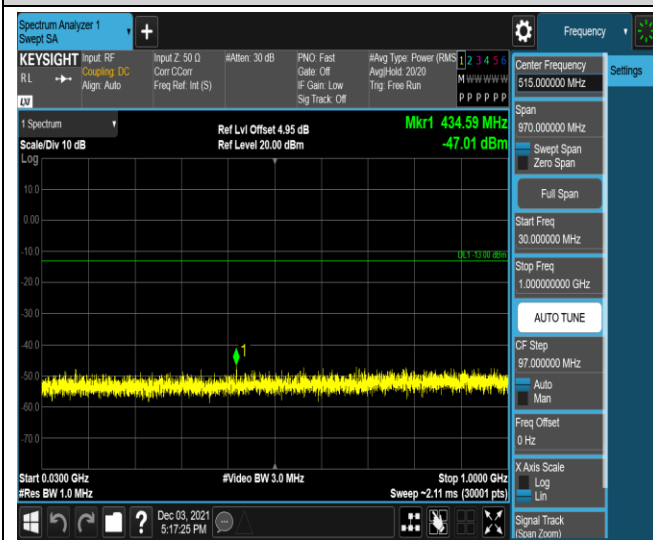
Band2-9400-30~1000MHz

Band2-9400-1000~20000MHz



Band2-9538-0.009~0.15MHz

Band2-9538-0.15~30MHz



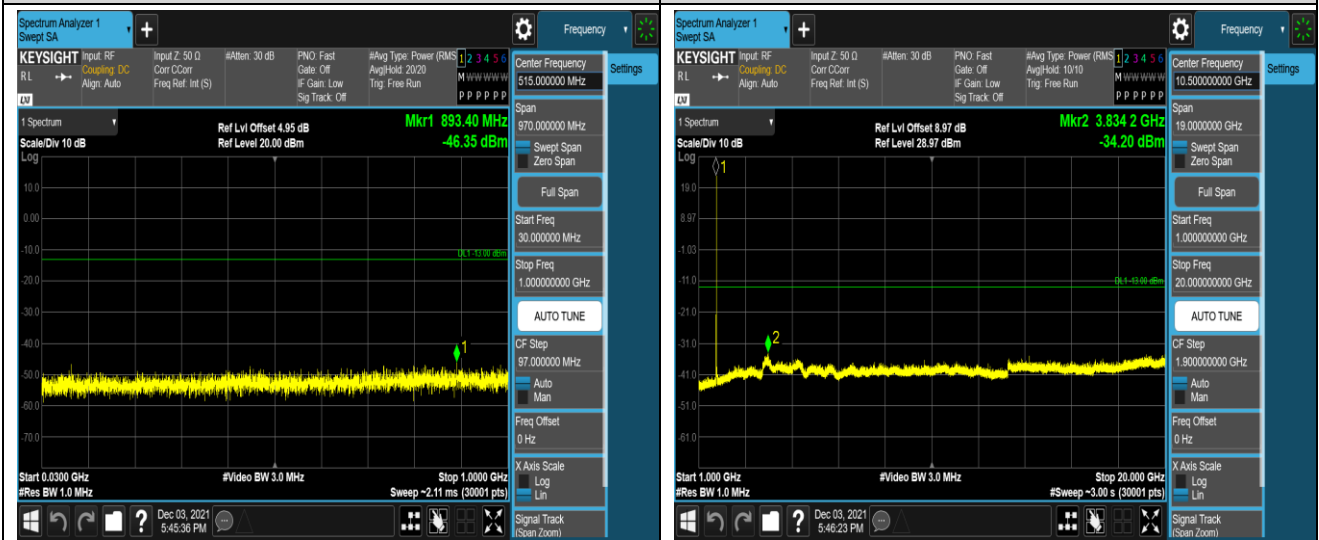
Band2-9538-30~1000MHz

Band2-9538-1000~20000MHz



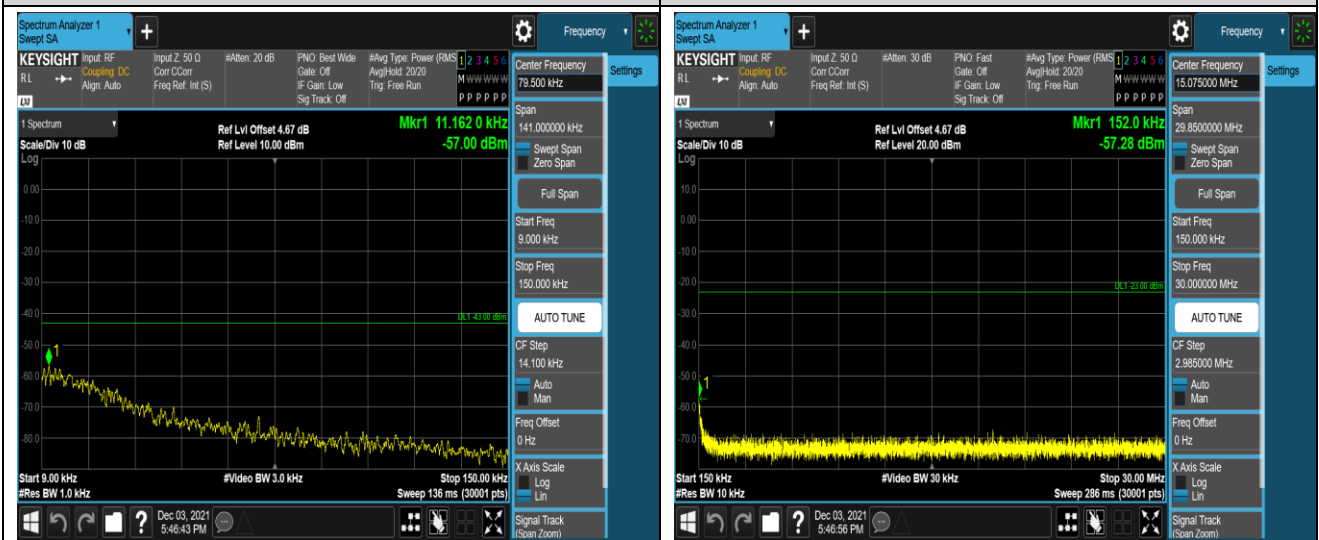
Band4-1312-0.009~0.15MHz

Band4-1312-0.15~30MHz



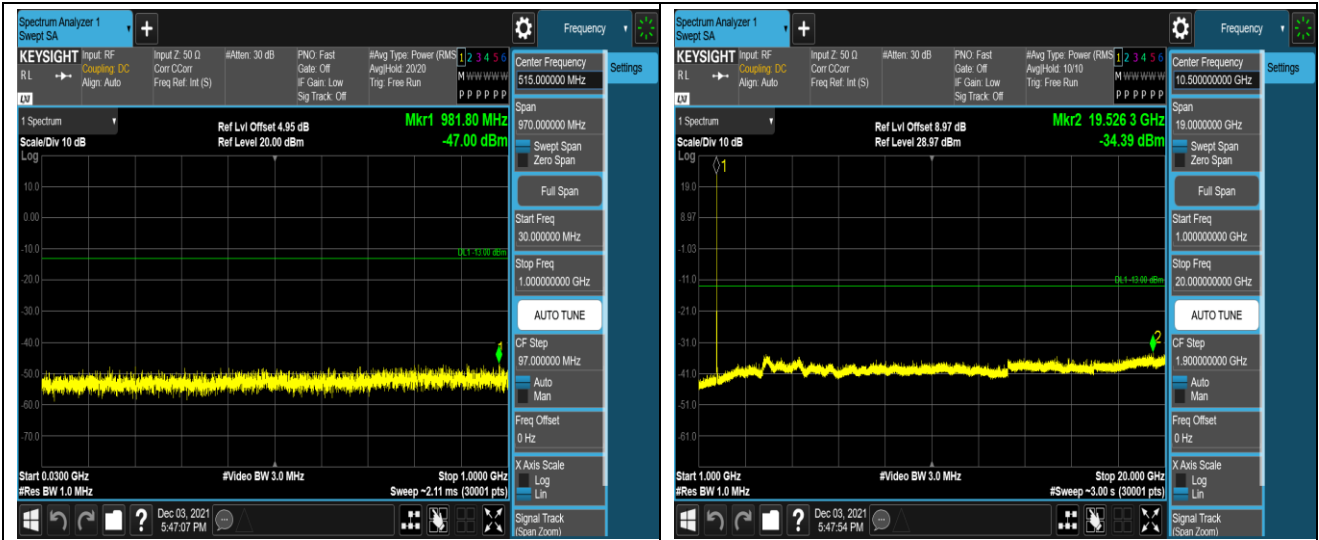
Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz



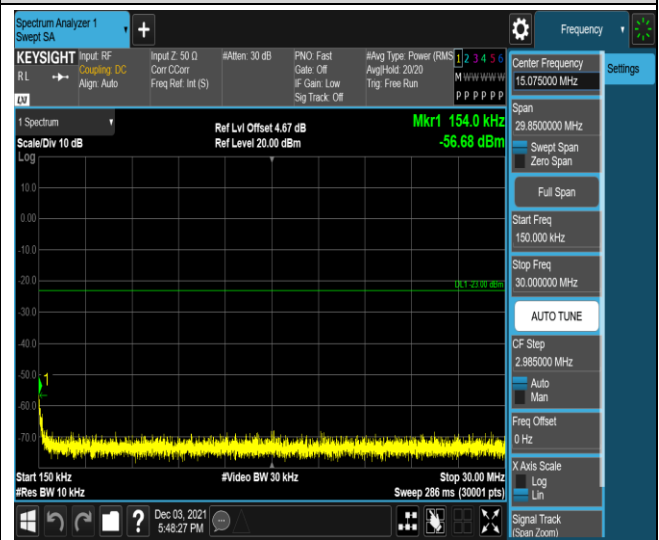
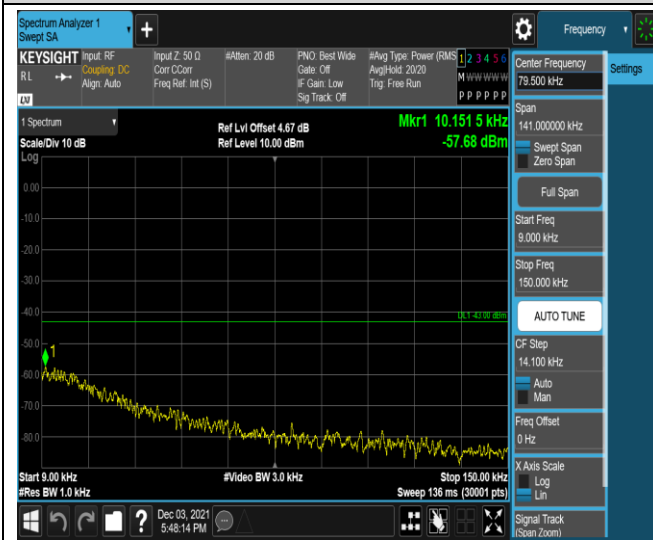
Band4-1413-0.009~0.15MHz

Band4-1413-0.15~30MHz



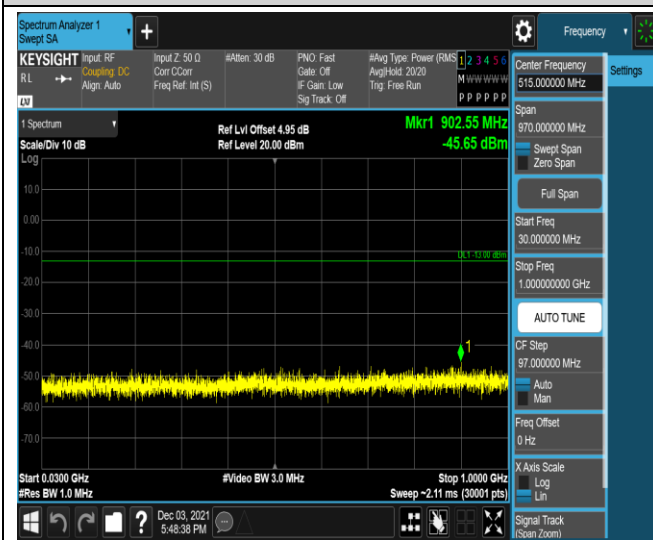
Band4-1413-30~1000MHz

Band4-1413-1000~20000MHz



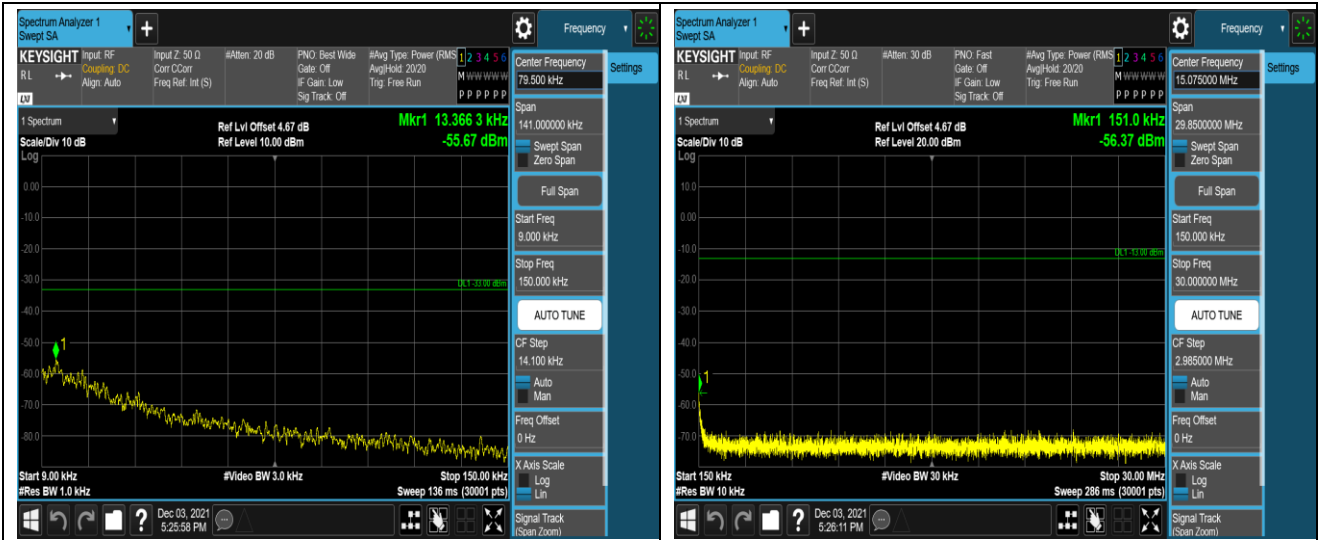
Band4-1513-0.009~0.15MHz

Band4-1513-0.15~30MHz



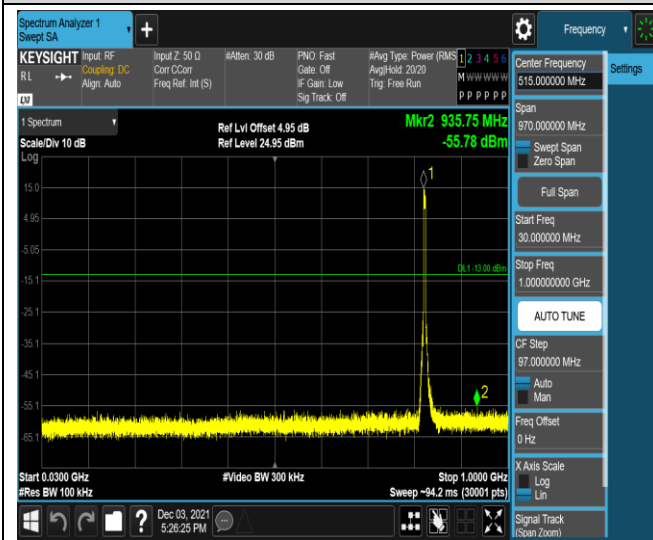
Band4-1513-30~1000MHz

Band4-1513-1000~20000MHz

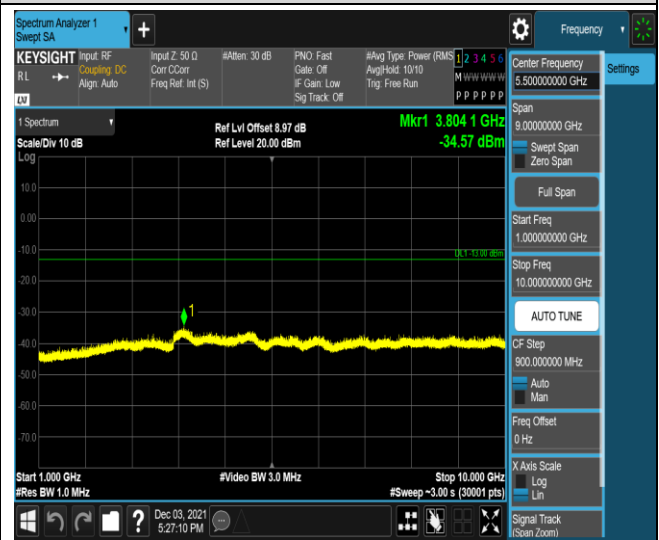


Band5-4132-0.009~0.15MHz

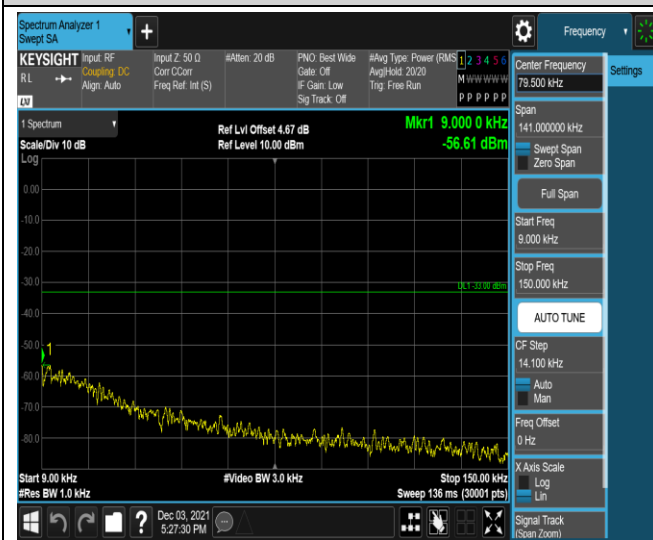
Band5-4132-0.15~30MHz



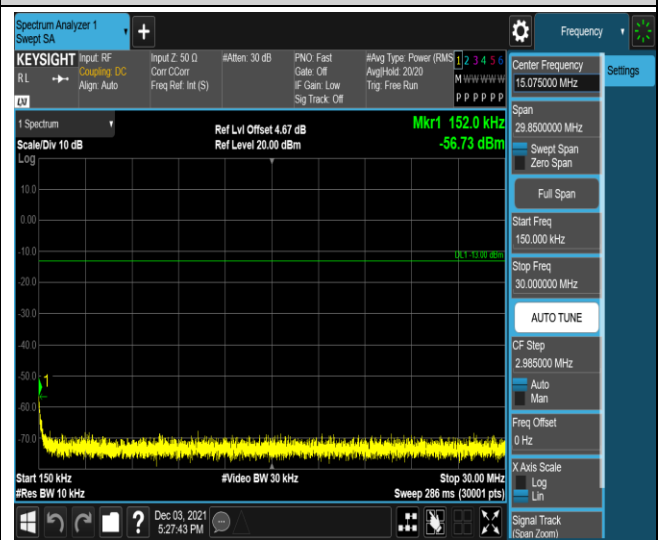
Band5-4132-30~1000MHz



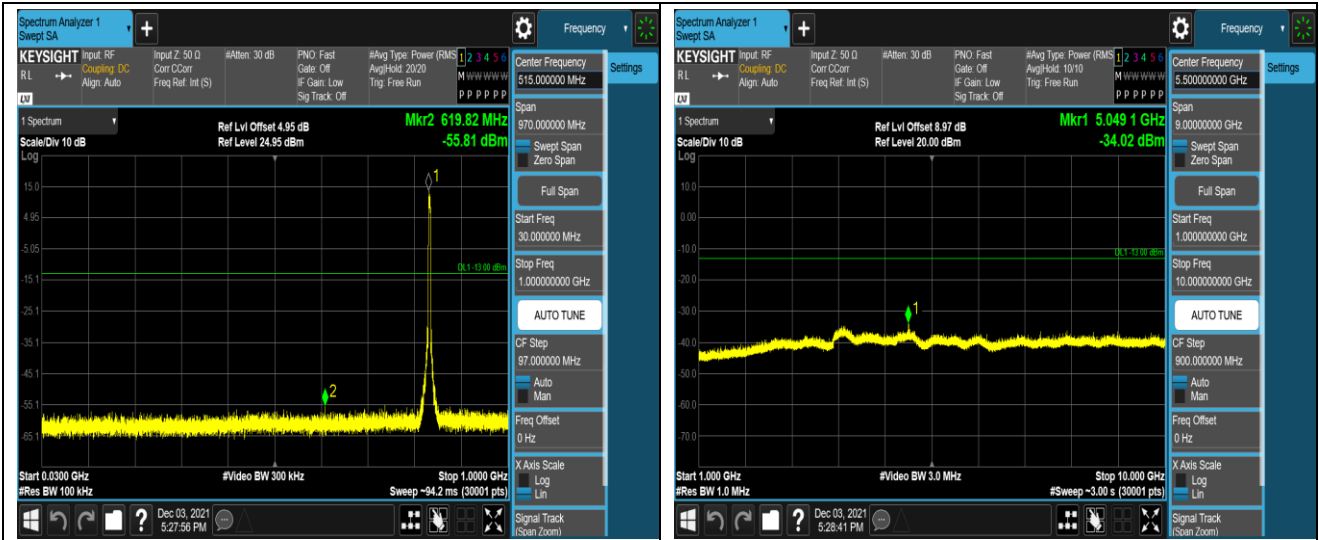
Band5-4132-1000~10000MHz



Band5-4183-0.009~0.15MHz

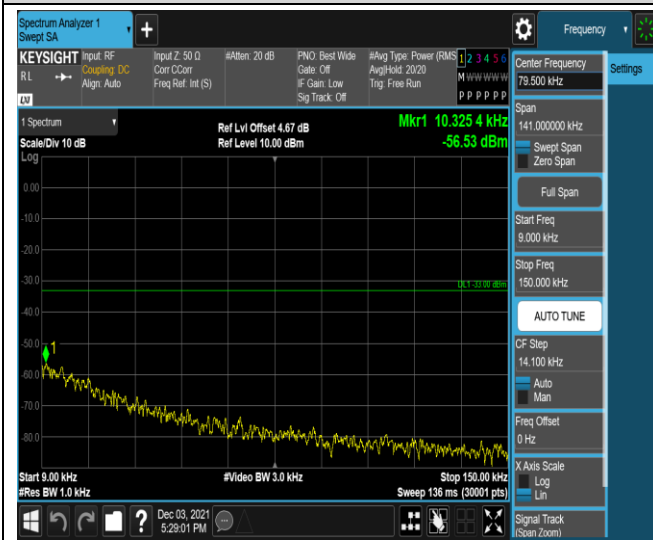


Band5-4183-0.15~30MHz

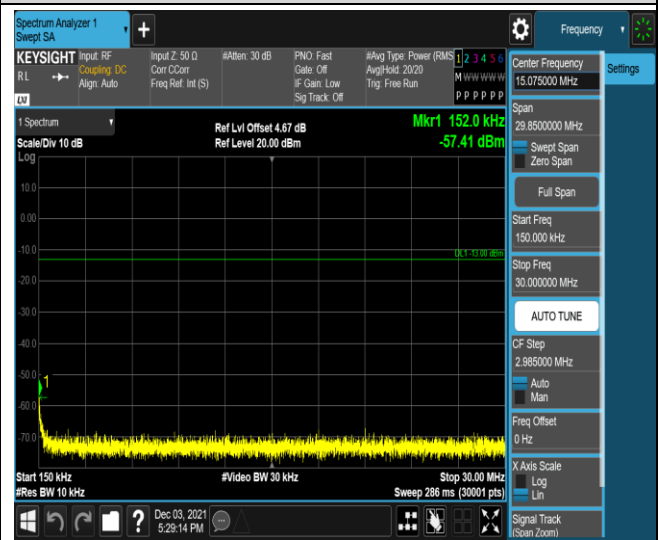


Band5-4183-30~1000MHz

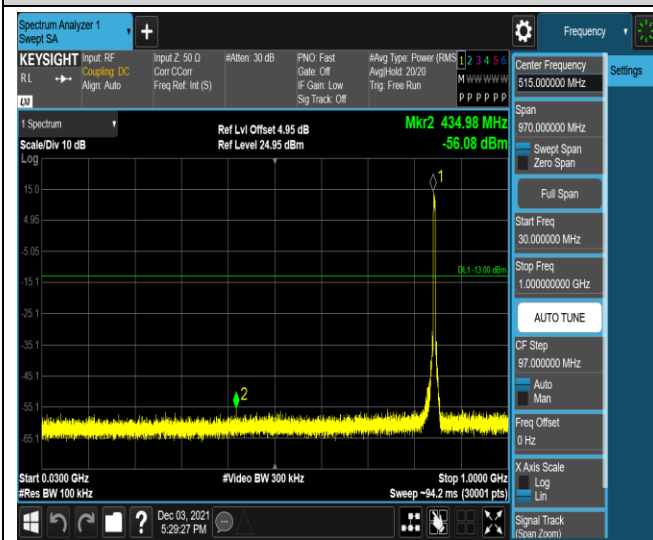
Band5-4183-1000~10000MHz



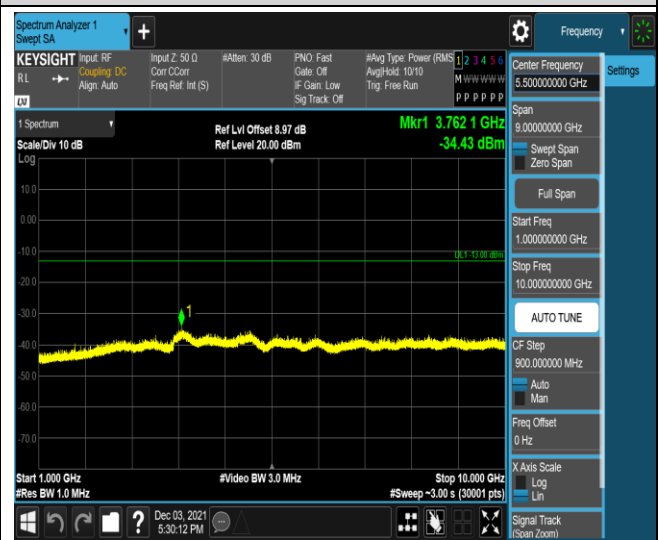
Band5-4233-0.009~0.15MHz



Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz

AppendixF:Frequency Stability

Test Result

Reference Frequency: WCDMA BAND II 12.2k RMC Middle Frequency=9400 channel=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-12.72	-0.006766	Within authorized band for BAND II	Pass
	-20	-13.67	-0.007271		
	-10	-12.70	-0.006755		
	0	-13.67	-0.007271		
	10	-11.39	-0.006059		
	20	-10.61	-0.005644		
	30	-12.17	-0.006473		
	40	-13.78	-0.007330		
	50	-11.04	-0.005872		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-13.00	-0.006915	Within authorized band for BAND II	Pass
	3.85	-13.07	-0.006952		
	4.40	-13.08	-0.006957		
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		
3.85	-30	-15.19	-0.008767	Within authorized band for BAND IV	Pass
	-20	-15.27	-0.008813		
	-10	-16.29	-0.009402		
	0	-12.84	-0.007411		
	10	-14.18	-0.008184		
	20	-13.40	-0.007734		
	30	-13.65	-0.007878		
	40	-10.98	-0.006337		
	50	-14.51	-0.008375		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-16.14	-0.009315	Within authorized band for BAND IV	Pass
	3.85	-16.24	-0.009373		
	4.40	-14.93	-0.008617		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

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		
3.85	-30	-11.91	-0.014236	±2.5	Pass
	-20	-11.07	-0.013232		
	-10	-13.73	-0.016412		
	0	-10.96	-0.013101		
	10	-10.17	-0.012156		
	20	-10.69	-0.012778		
	30	-9.23	-0.011033		
	40	-11.36	-0.013579		
	50	-9.14	-0.010925		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-12.71	-0.015192	±2.5	Pass
	3.85	-12.52	-0.014965		
	4.40	-12.66	-0.015133		
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

