

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	24.40	23.84	33	PASS
Band2	TestMode	9262	24.39	23.83	33	PASS
Band2	TestMode	9400	24.69	24.13	33	PASS
Band2	Voice	9400	24.69	24.13	33	PASS
Band2	TestMode	9538	24.71	24.15	33	PASS
Band2	Voice	9538	24.66	24.10	33	PASS
Band4	Voice	1312	23.82	24.28	30.00	PASS
Band4	TestMode	1312	23.85	24.31	30.00	PASS
Band4	Voice	1413	24.00	24.46	30.00	PASS
Band4	TestMode	1413	24.03	24.49	30.00	PASS
Band4	TestMode	1513	24.16	24.62	30.00	PASS
Band4	Voice	1513	24.13	24.59	30.00	PASS
Band5	Voice	4132	23.96	18.69	38.45	PASS
Band5	TestMode	4132	23.77	18.50	38.45	PASS
Band5	TestMode	4183	24.02	18.75	38.45	PASS
Band5	Voice	4183	24.14	18.87	38.45	PASS
Band5	Voice	4233	24.22	18.95	38.45	PASS
Band5	TestMode	4233	24.00	18.73	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	23.06	22.50	33.01	PASS
Band2	9262	2	22.64	22.08	33.01	PASS
Band2	9262	3	22.52	21.96	33.01	PASS
Band2	9262	4	22.49	21.93	33.01	PASS
Band2	9400	1	23.41	22.85	33.01	PASS
Band2	9400	2	22.89	22.33	33.01	PASS
Band2	9400	3	22.80	22.24	33.01	PASS
Band2	9400	4	22.76	22.20	33.01	PASS
Band2	9538	1	23.35	22.79	33.01	PASS
Band2	9538	2	22.90	22.34	33.01	PASS
Band2	9538	3	22.78	22.22	33.01	PASS
Band2	9538	4	22.82	22.26	33.01	PASS

Band4	1312	1	22.98	23.44	30.00	PASS
Band4	1312	2	22.46	22.92	30.00	PASS
Band4	1312	3	22.48	22.94	30.00	PASS
Band4	1312	4	22.44	22.90	30.00	PASS
Band4	1413	1	23.13	23.59	30.00	PASS
Band4	1413	2	22.64	23.10	30.00	PASS
Band4	1413	3	22.66	23.12	30.00	PASS
Band4	1413	4	22.58	23.04	30.00	PASS
Band4	1513	1	23.25	23.71	30.00	PASS
Band4	1513	2	22.79	23.25	30.00	PASS
Band4	1513	3	22.79	23.25	30.00	PASS
Band4	1513	4	22.68	23.14	30.00	PASS
Band5	4132	1	22.82	17.55	38.5	PASS
Band5	4132	2	22.28	17.01	38.5	PASS
Band5	4132	3	22.30	17.03	38.5	PASS
Band5	4132	4	22.29	17.02	38.5	PASS
Band5	4183	1	23.03	17.76	38.5	PASS
Band5	4183	2	22.50	17.23	38.5	PASS
Band5	4183	3	22.55	17.28	38.5	PASS
Band5	4183	4	22.49	17.22	38.5	PASS
Band5	4233	1	23.00	17.73	38.5	PASS
Band5	4233	2	22.49	17.22	38.5	PASS
Band5	4233	3	22.55	17.28	38.5	PASS
Band5	4233	4	22.48	17.21	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.01	20.45	33.01	PASS
Band2	9262	2	21.49	20.93	33.01	PASS
Band2	9262	3	22.04	21.48	33.01	PASS
Band2	9262	4	21.06	20.50	33.01	PASS
Band2	9262	5	22.99	22.43	33.01	PASS
Band2	9400	1	21.28	20.72	33.01	PASS
Band2	9400	2	21.78	21.22	33.01	PASS
Band2	9400	3	22.30	21.74	33.01	PASS
Band2	9400	4	21.32	20.76	33.01	PASS
Band2	9400	5	23.32	22.76	33.01	PASS
Band2	9538	1	21.26	20.70	33.01	PASS
Band2	9538	2	21.77	21.21	33.01	PASS
Band2	9538	3	22.28	21.72	33.01	PASS

Band2	9538	4	21.32	20.76	33.01	PASS
Band2	9538	5	23.26	22.70	33.01	PASS
Band4	1312	1	20.98	21.44	30.00	PASS
Band4	1312	2	21.50	21.96	30.00	PASS
Band4	1312	3	21.97	22.43	30.00	PASS
Band4	1312	4	20.99	21.45	30.00	PASS
Band4	1312	5	22.97	23.43	30.00	PASS
Band4	1413	1	21.12	21.58	30.00	PASS
Band4	1413	2	21.60	22.06	30.00	PASS
Band4	1413	3	22.12	22.58	30.00	PASS
Band4	1413	4	21.13	21.59	30.00	PASS
Band4	1413	5	23.15	23.61	30.00	PASS
Band4	1513	1	21.24	21.70	30.00	PASS
Band4	1513	2	21.74	22.20	30.00	PASS
Band4	1513	3	22.23	22.69	30.00	PASS
Band4	1513	4	21.21	21.67	30.00	PASS
Band4	1513	5	23.29	23.75	30.00	PASS
Band5	4132	1	20.80	15.53	38.5	PASS
Band5	4132	2	21.29	16.02	38.5	PASS
Band5	4132	3	21.80	16.53	38.5	PASS
Band5	4132	4	20.85	15.58	38.5	PASS
Band5	4132	5	22.80	17.53	38.5	PASS
Band5	4183	1	21.03	15.76	38.5	PASS
Band5	4183	2	21.47	16.2	38.5	PASS
Band5	4183	3	22.04	16.77	38.5	PASS
Band5	4183	4	21.05	15.78	38.5	PASS
Band5	4183	5	23.08	17.81	38.5	PASS
Band5	4233	1	21.00	15.73	38.5	PASS
Band5	4233	2	21.51	16.24	38.5	PASS
Band5	4233	3	22.00	16.73	38.5	PASS
Band5	4233	4	21.02	15.75	38.5	PASS
Band5	4233	5	23.04	17.77	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)

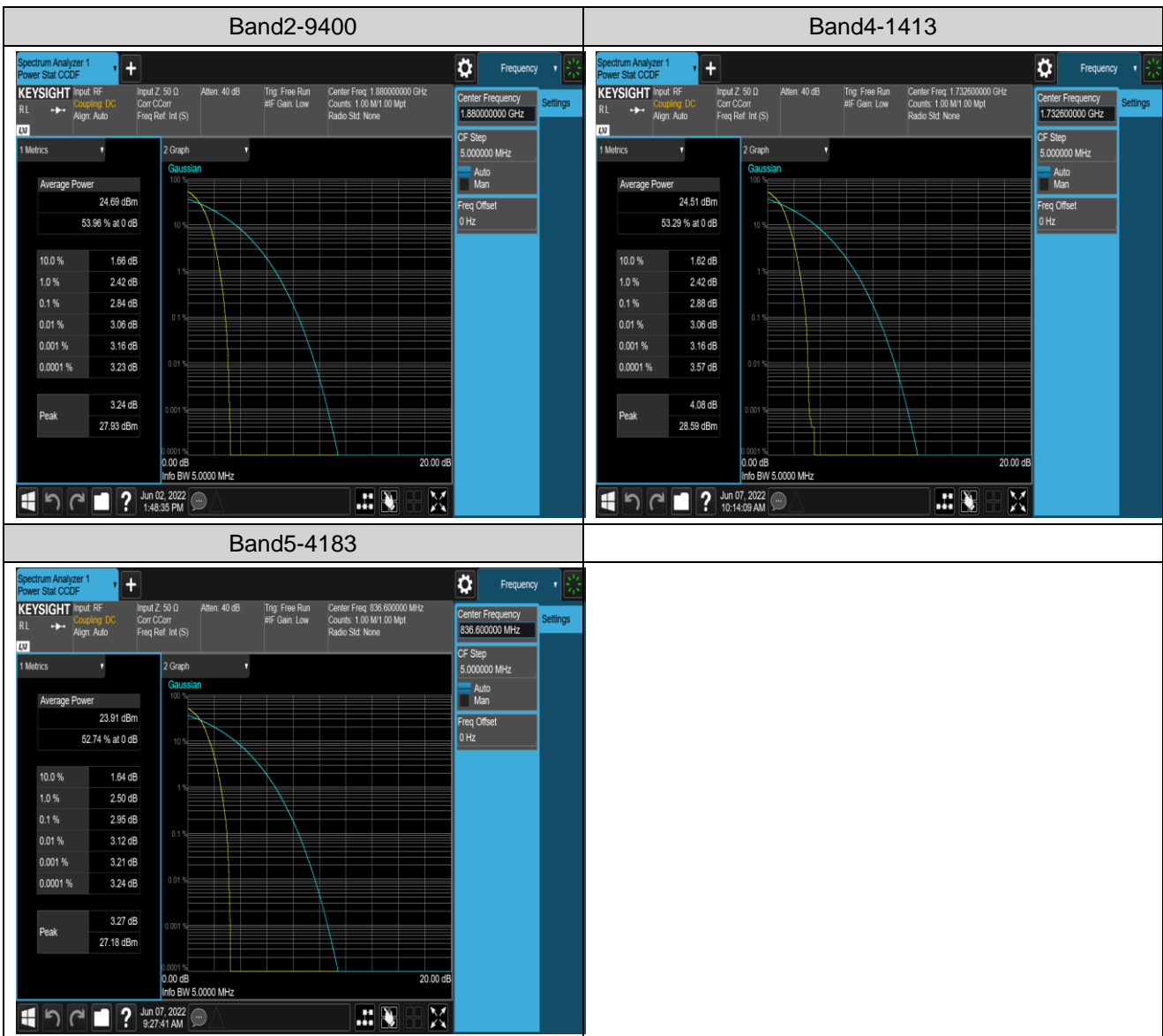
Appendix B: Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.84	13	PASS
Band4	1413	2.88	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)

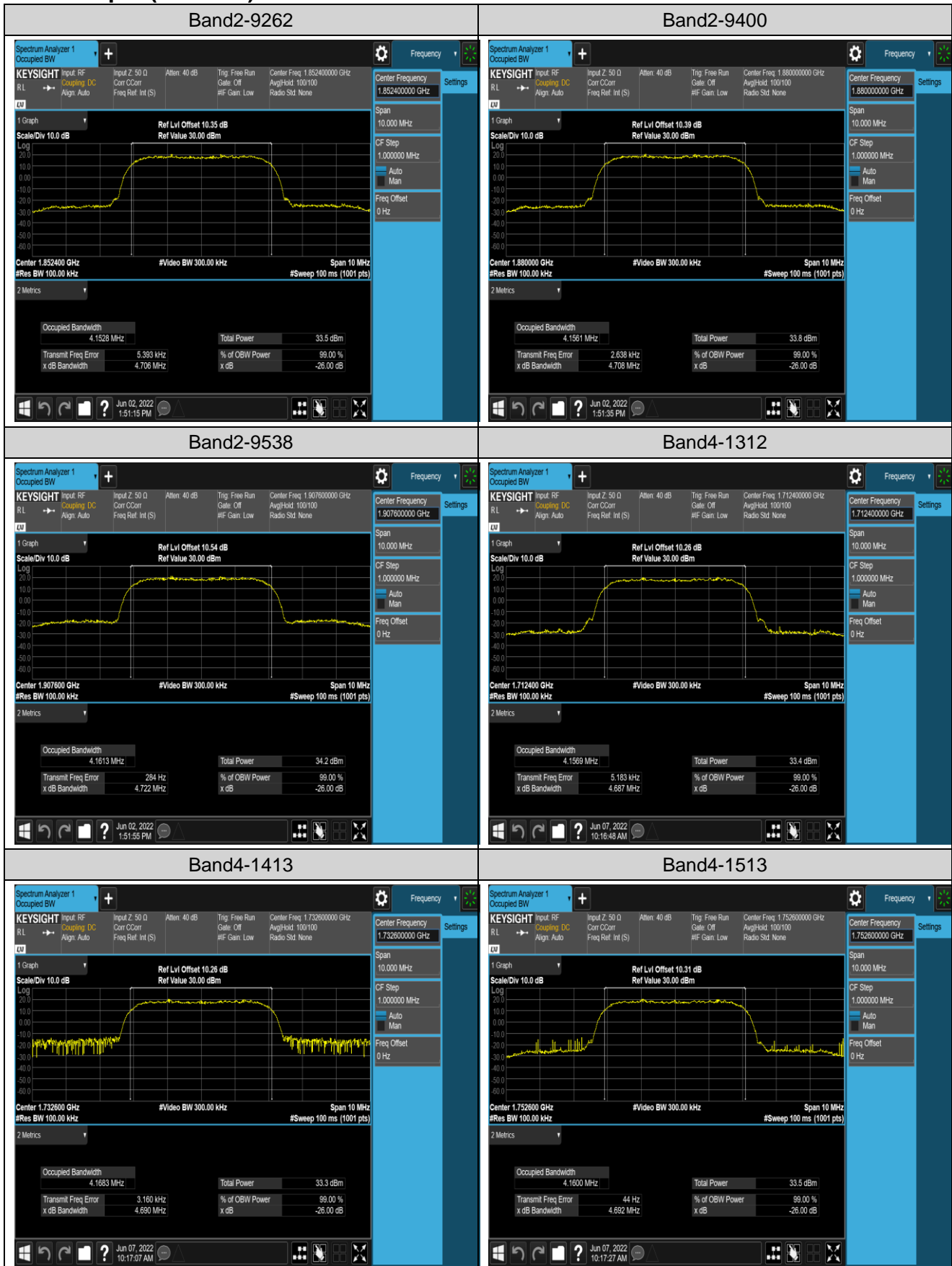


AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1528	4.706	---	PASS
Band2	9400	4.1561	4.708	---	PASS
Band2	9538	4.1613	4.722	---	PASS
Band4	1312	4.1569	4.687	---	PASS
Band4	1413	4.1683	4.690	---	PASS
Band4	1513	4.1600	4.692	---	PASS
Band5	4132	4.1601	4.694	---	PASS
Band5	4183	4.1554	4.700	---	PASS
Band5	4233	4.1644	4.689	---	PASS

Test Graphs(WCDMA)



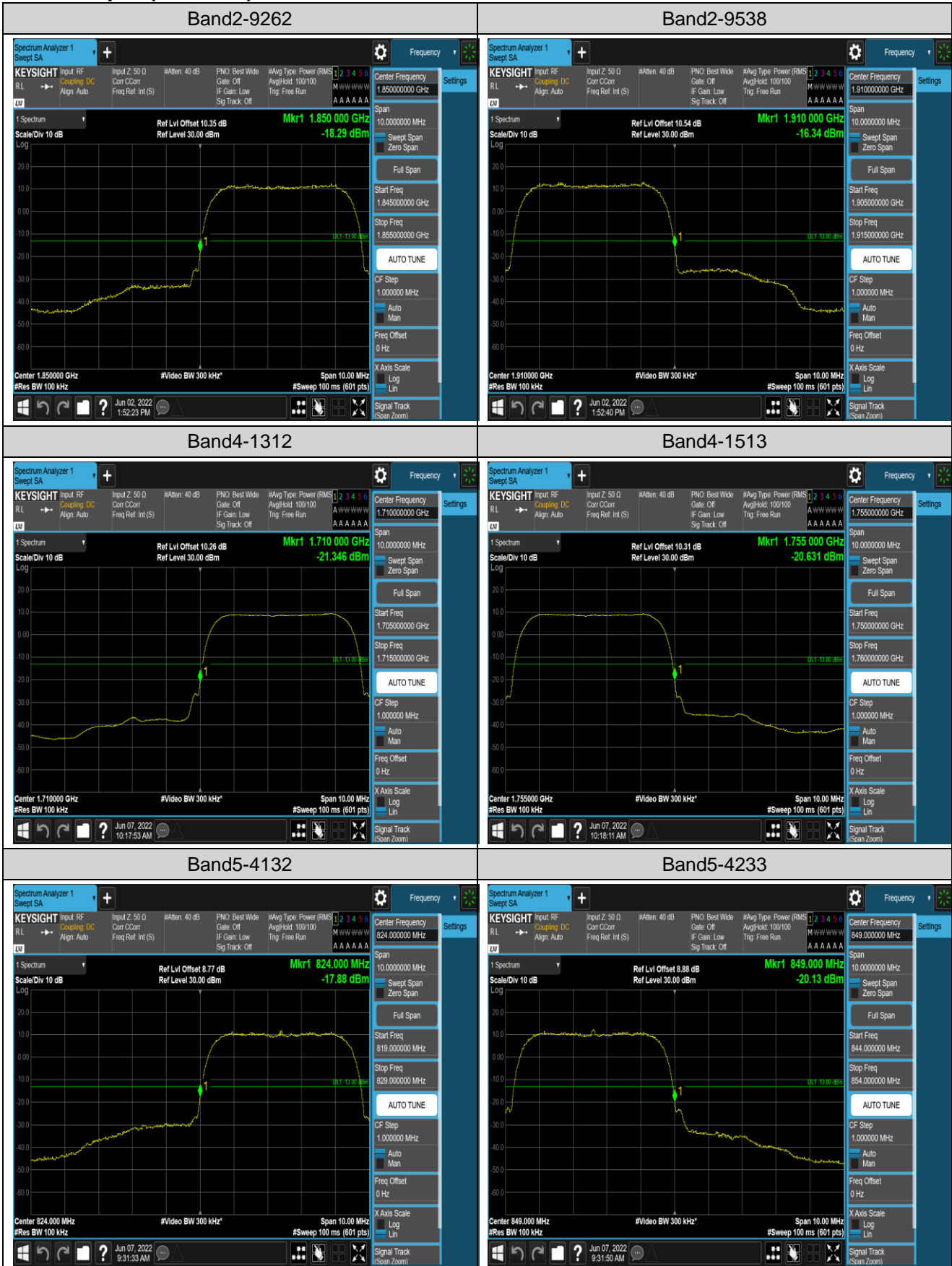


AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.29	-13	PASS
Band2	9538	1910.00	-16.34	-13	PASS
Band4	1312	1710.00	-21.35	-13	PASS
Band4	1513	1755.00	-20.63	-13	PASS
Band5	4132	824.00	-17.88	-13	PASS
Band5	4233	849.00	-20.13	-13	PASS

Test Graphs(WCDMA)

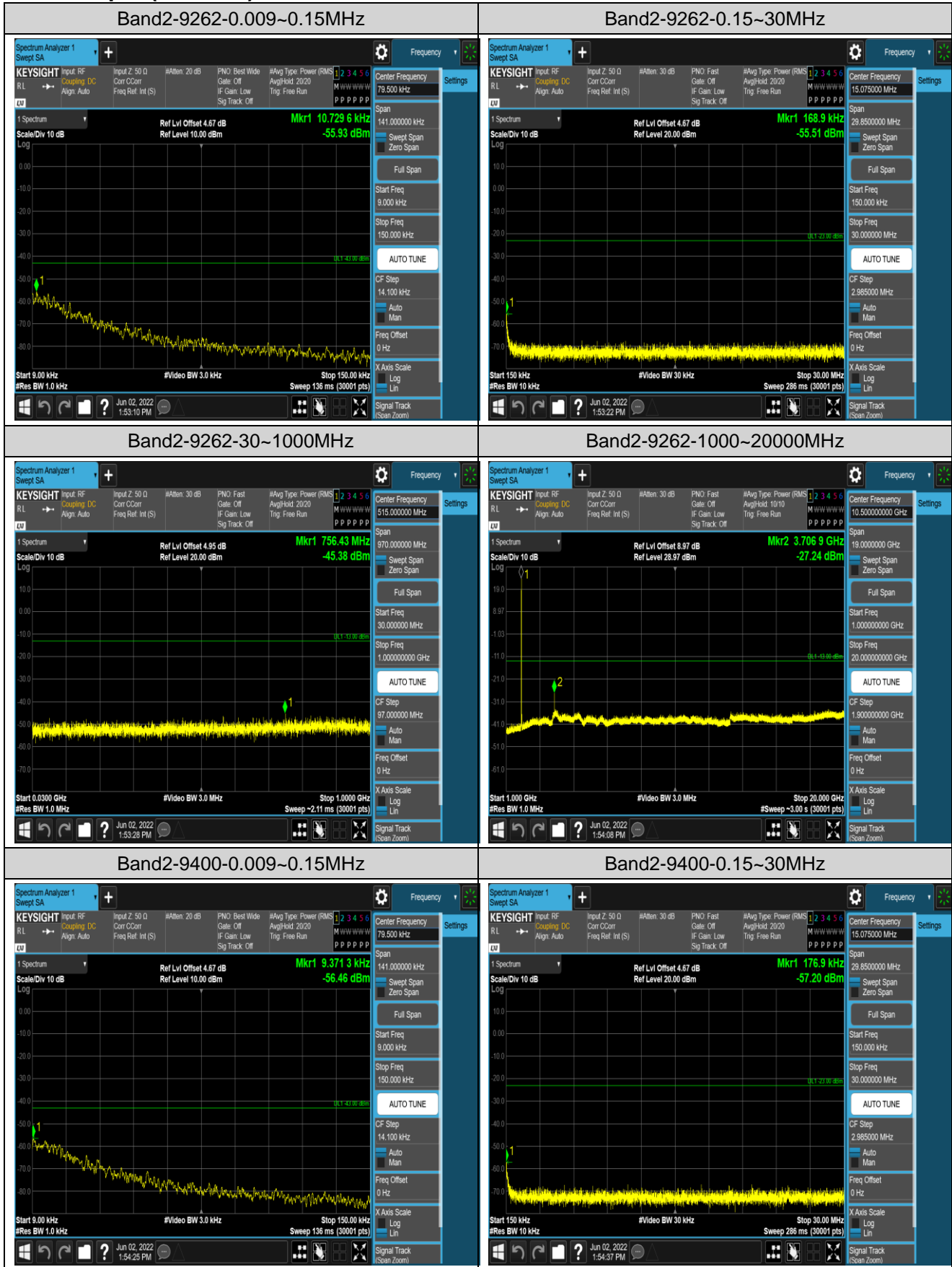


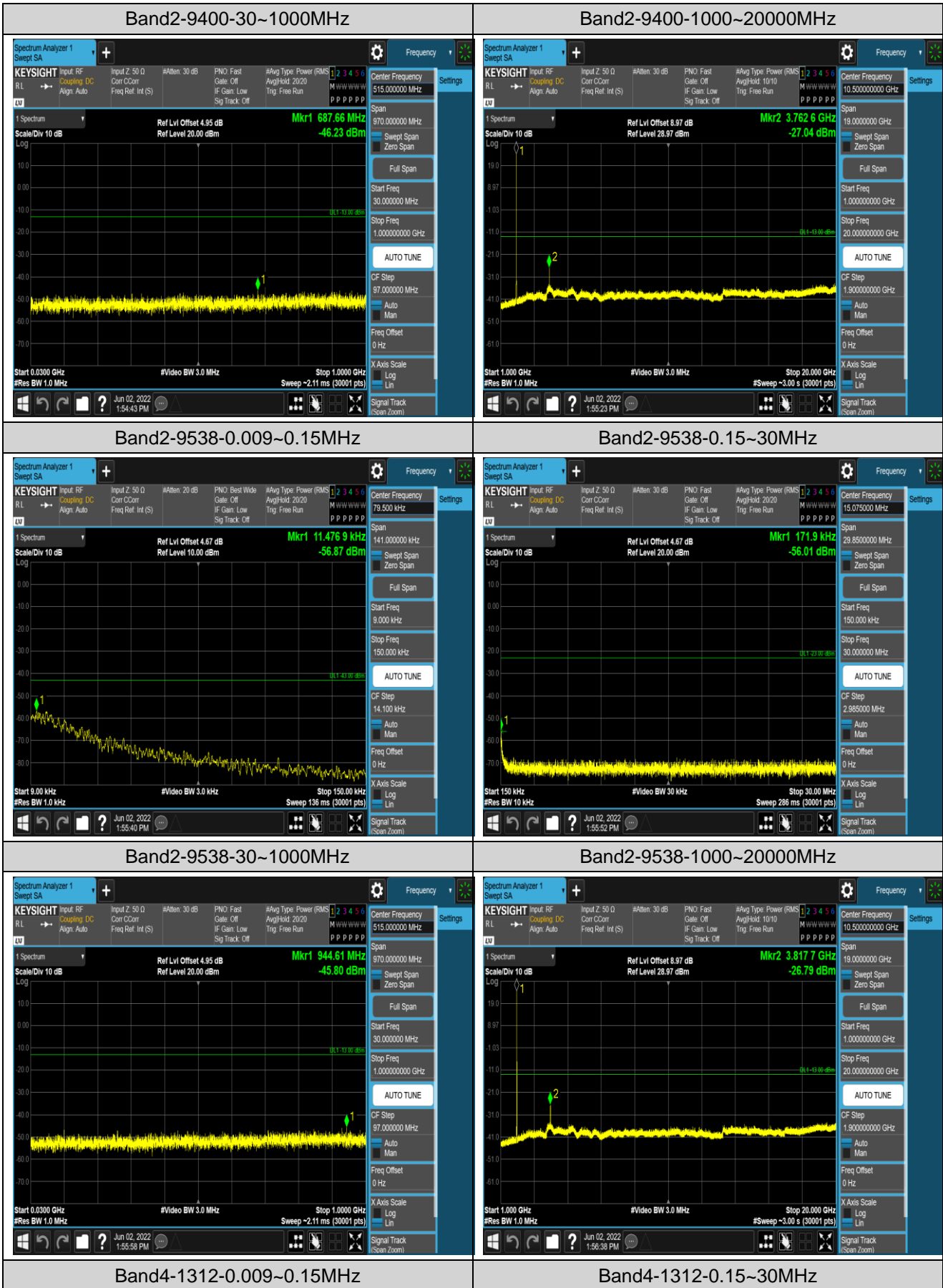
Appendix E: Conducted Spurious Emission

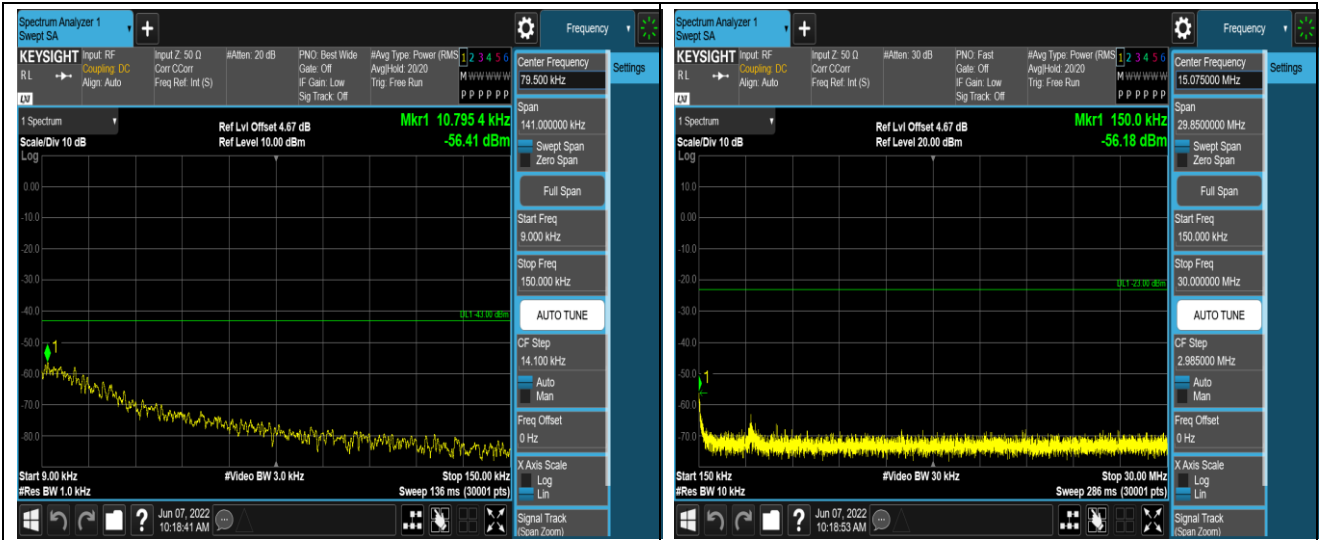
Test Result (WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.93	-43	PASS
Band2	9262	0.15~30MHz	0.17	-55.51	-23	PASS
Band2	9262	30~1000MHz	756.43	-45.38	-13	PASS
Band2	9262	1000~20000MHz	3706.87	-27.24	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.46	-43	PASS
Band2	9400	0.15~30MHz	0.18	-57.2	-23	PASS
Band2	9400	30~1000MHz	687.66	-46.23	-13	PASS
Band2	9400	1000~20000MHz	3762.6	-27.04	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.87	-43	PASS
Band2	9538	0.15~30MHz	0.17	-56.01	-23	PASS
Band2	9538	30~1000MHz	944.61	-45.8	-13	PASS
Band2	9538	1000~20000MHz	3817.7	-26.79	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.41	-43	PASS
Band4	1312	0.15~30MHz	0.15	-56.18	-23	PASS
Band4	1312	30~1000MHz	632.69	-45.81	-13	PASS
Band4	1312	1000~20000MHz	19379.97	-34.15	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-55.51	-43	PASS
Band4	1413	0.15~30MHz	0.15	-57.56	-23	PASS
Band4	1413	30~1000MHz	951.5	-46.15	-13	PASS
Band4	1413	1000~20000MHz	19920.2	-34.4	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.21	-43	PASS
Band4	1513	0.15~30MHz	0.17	-57.35	-23	PASS
Band4	1513	30~1000MHz	916.55	-46.72	-13	PASS
Band4	1513	1000~20000MHz	19121.57	-34.18	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-57.72	-33	PASS
Band5	4132	0.15~30MHz	0.17	-57.48	-13	PASS
Band5	4132	30~1000MHz	598.06	-55.32	-13	PASS
Band5	4132	1000~10000MHz	3874	-34.42	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.27	-33	PASS
Band5	4183	0.15~30MHz	0.16	-56.43	-13	PASS
Band5	4183	30~1000MHz	938.53	-55.92	-13	PASS
Band5	4183	1000~10000MHz	3863.5	-34.85	-13	PASS
Band5	4233	0.009~0.15MHz	0.02	-57.64	-33	PASS
Band5	4233	0.15~30MHz	0.18	-57.98	-13	PASS
Band5	4233	30~1000MHz	664.83	-55.09	-13	PASS
Band5	4233	1000~10000MHz	3736.3	-33.93	-13	PASS

Test Graphs(WCDMA)

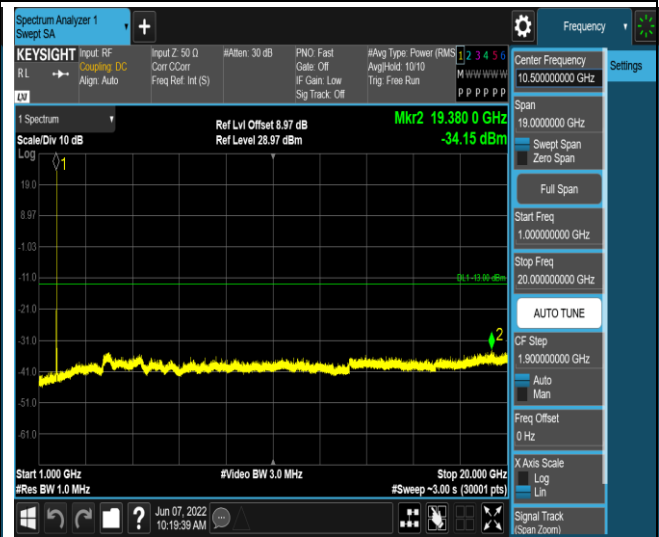
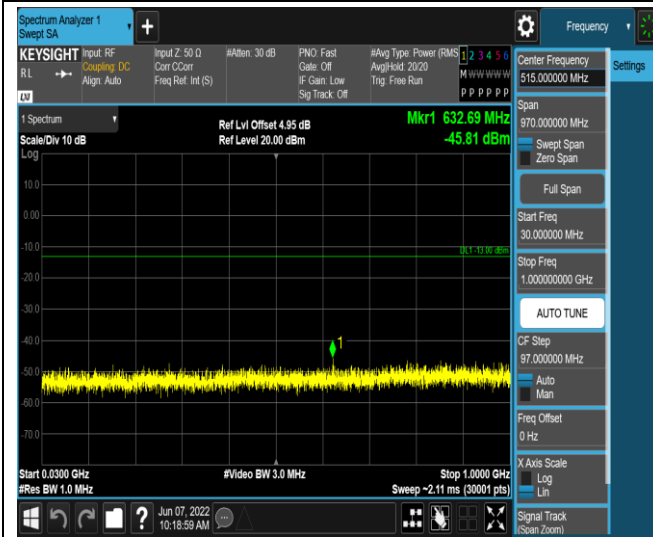






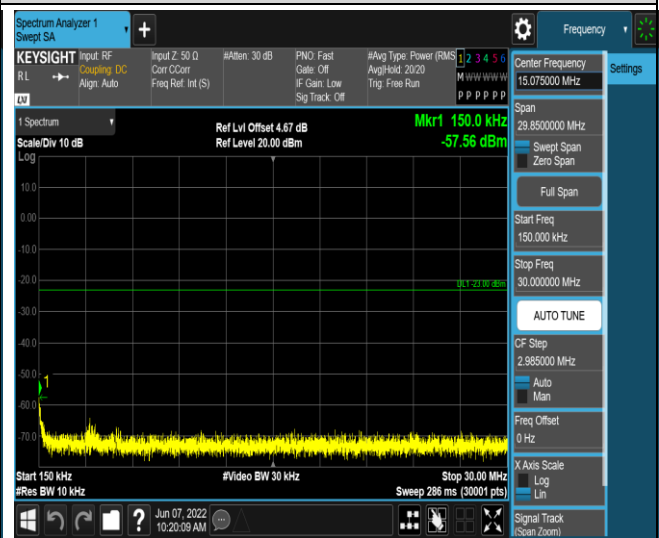
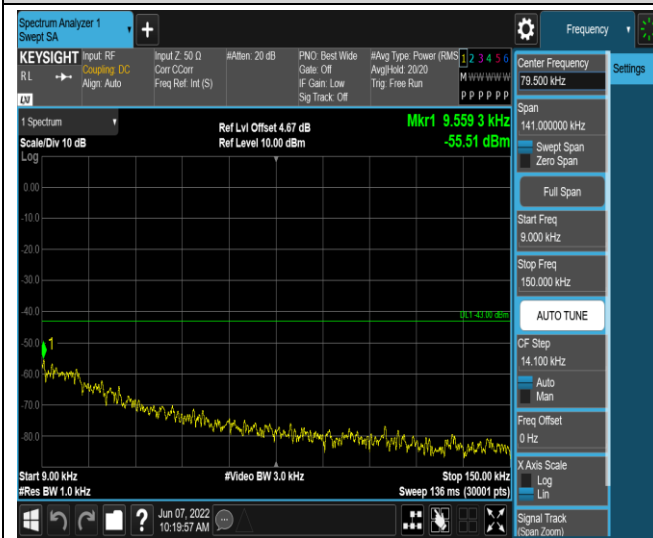
Band4-1312-30~1000MHz

Band4-1312-1000~20000MHz



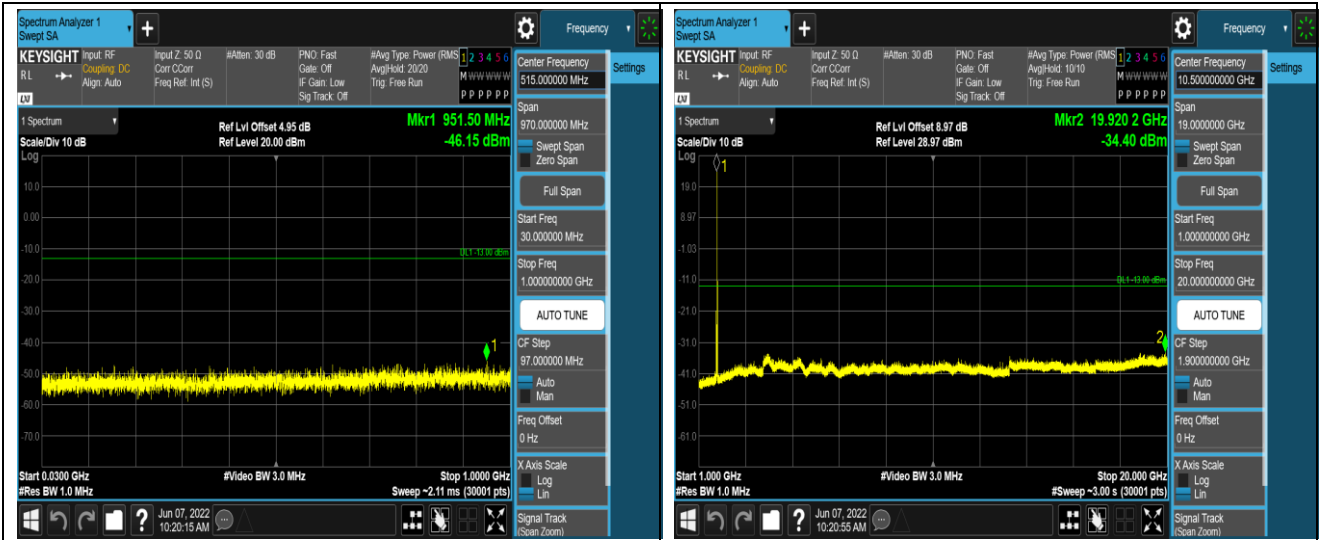
Band4-1413-0.009~0.15MHz

Band4-1413-0.15~30MHz



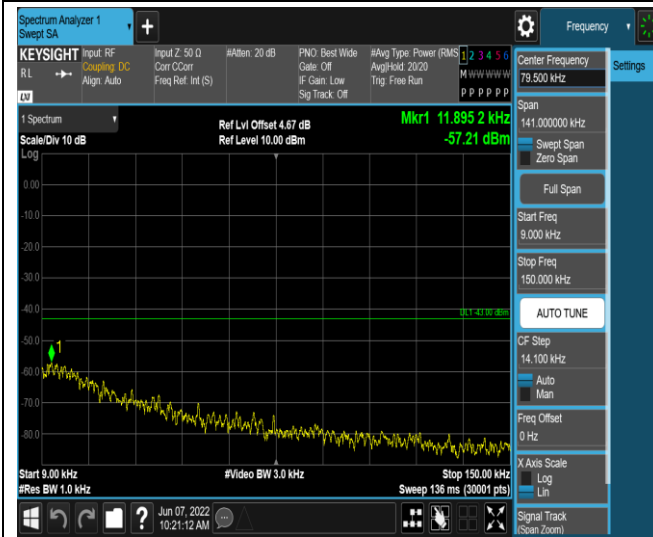
Band4-1413-30~1000MHz

Band4-1413-1000~20000MHz

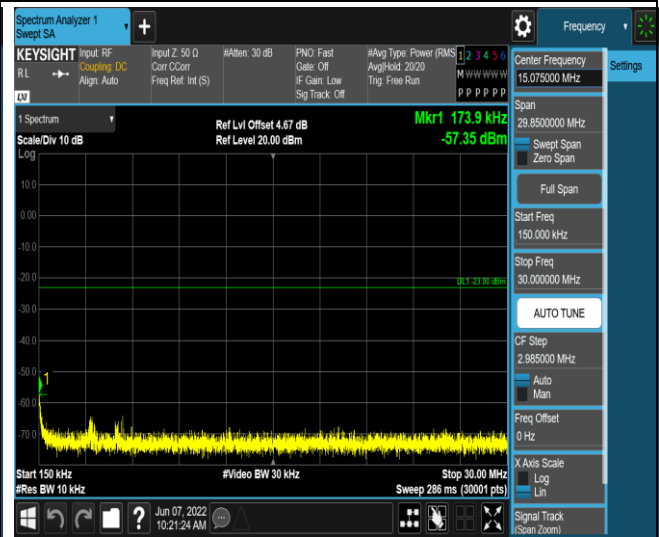


Band4-1513-0.009~0.15MHz

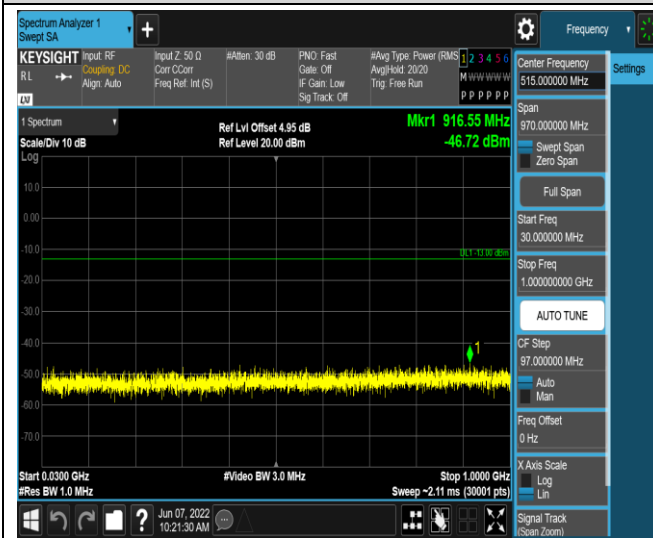
Band4-1513-0.15~30MHz



Band4-1513-30~1000MHz



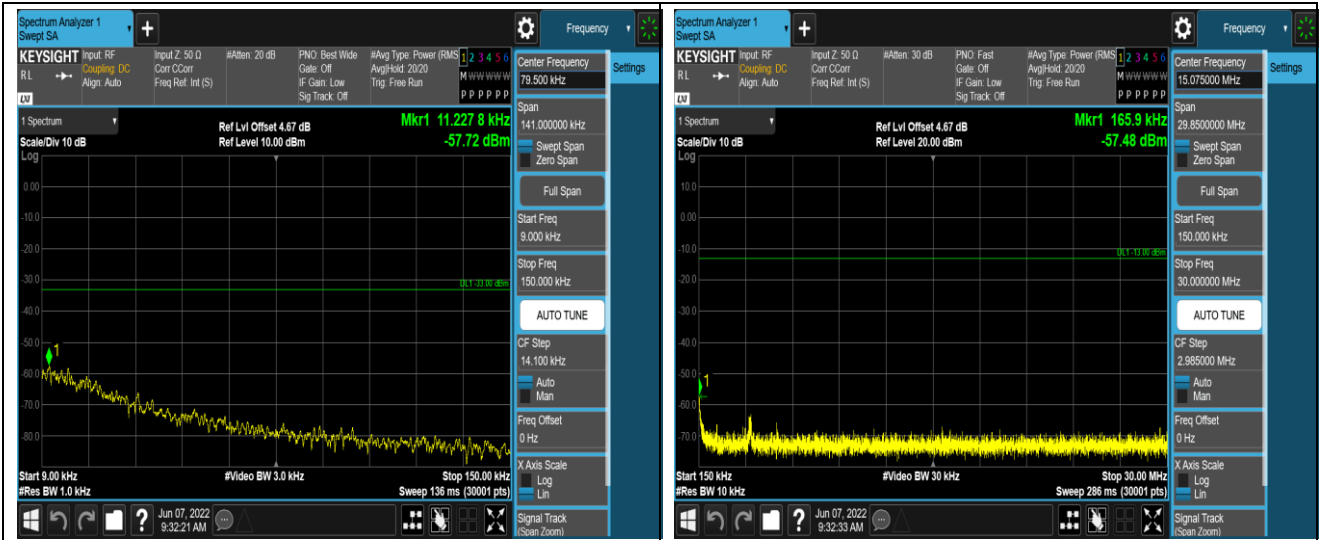
Band4-1513-1000~20000MHz



Band5-4132-0.009~0.15MHz

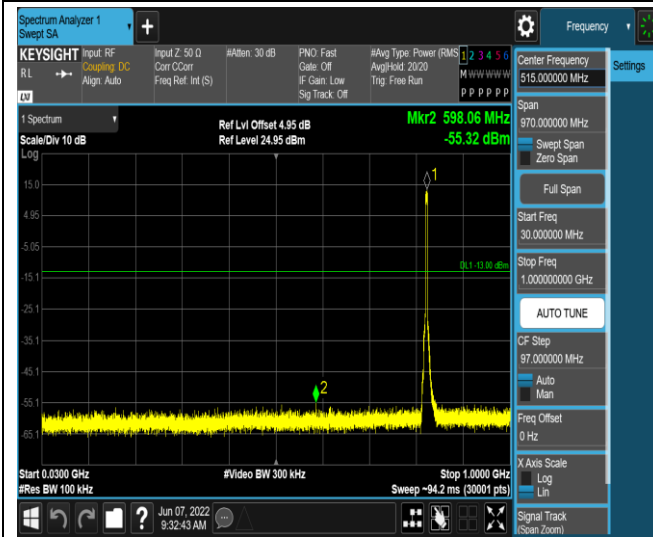


Band5-4132-0.15~30MHz



Band5-4132-30~1000MHz

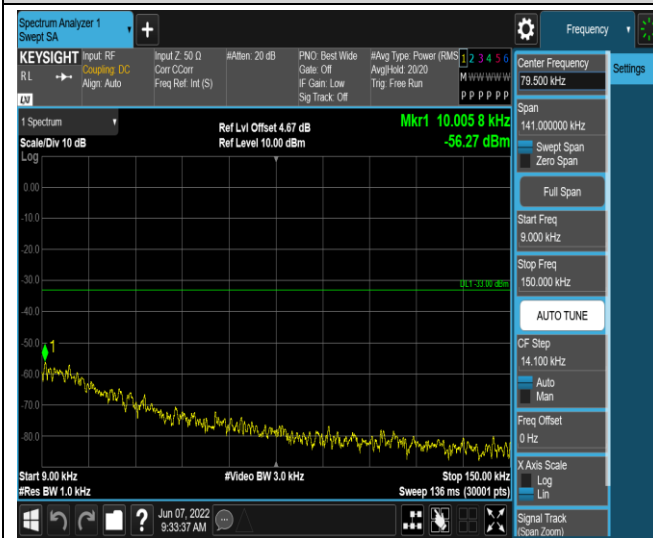
Band5-4132-1000~10000MHz



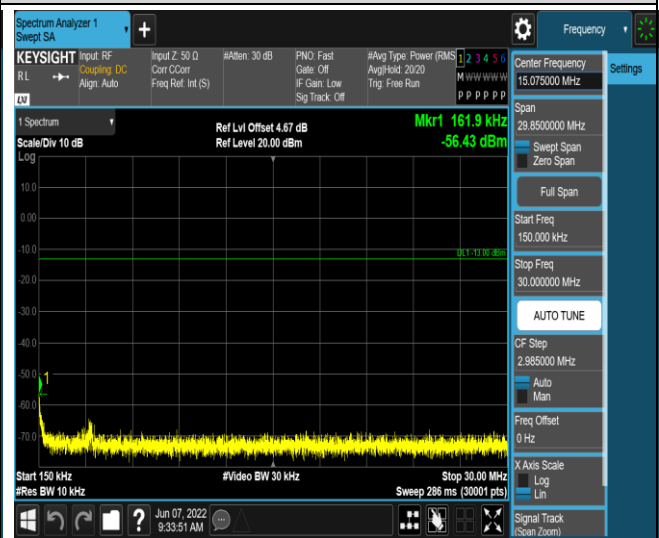
Band5-4183-0.009~0.15MHz



Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz

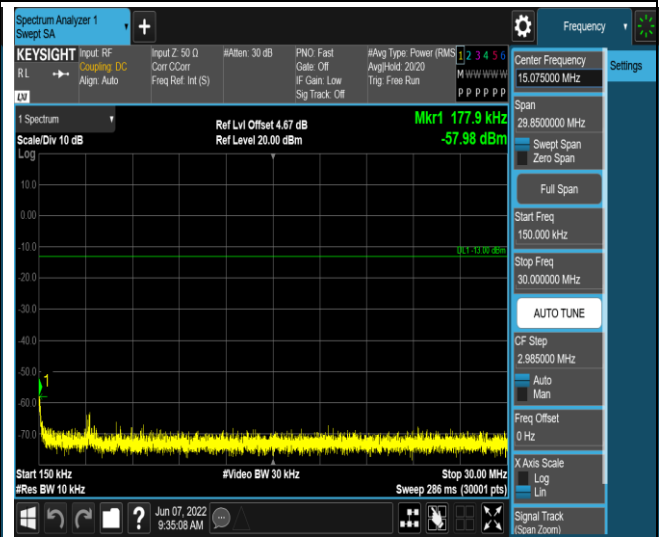
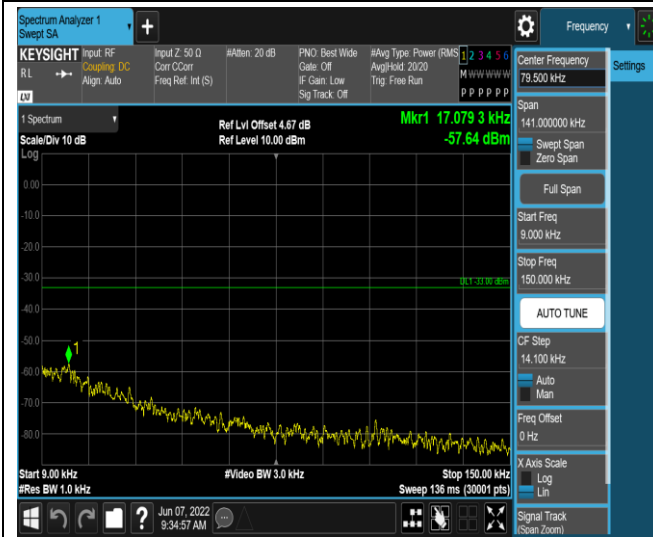


Band5-4183-1000~10000MHz



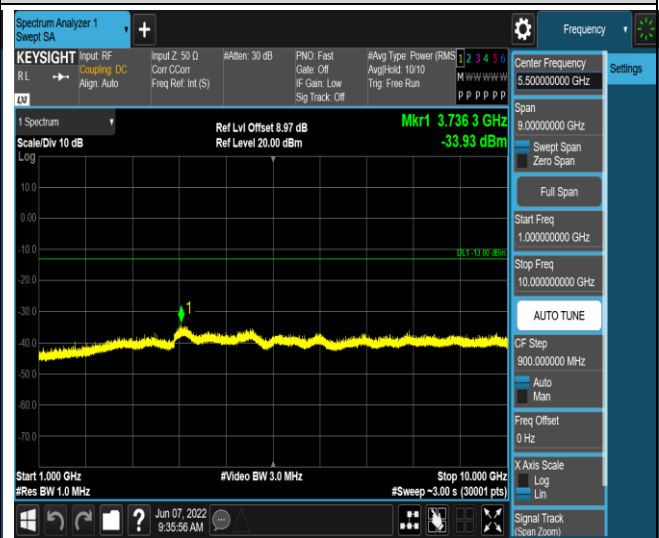
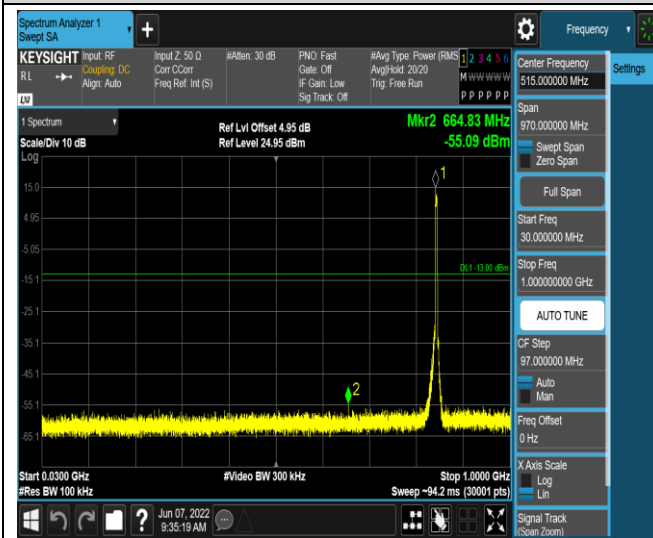
Band5-4233-0.009~0.15MHz

Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz

Band5-4233-1000~10000MHz



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		
3.8	-30	-2.56	-0.003060	±2.5	Pass
	-20	-3.50	-0.004184		
	-10	-5.92	-0.007076		
	0	-4.41	-0.005271		
	10	-2.05	-0.002450		
	20	-2.90	-0.003466		
	30	-4.60	-0.005498		
	40	-3.03	-0.003622		
	50	-2.31	-0.002761		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-1.93	-0.002307	±2.5	Pass
	3.87	-5.44	-0.006503		
	4.40	-3.62	-0.004327		
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	-6.04	-0.003486	Within authorized band for BAND IV	Pass
	-20	-5.54	-0.003198		
	-10	-4.68	-0.002701		
	0	-4.06	-0.002343		
	10	-3.86	-0.002228		
	20	-3.25	-0.001876		
	30	-2.26	-0.001304		
	40	-1.39	-0.000802		
	50	-3.68	-0.002124		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-3.65	-0.002107	Within authorized band for BAND IV	Pass
	3.87	-6.09	-0.003515		
	4.40	-2.18	-0.001258		
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	-2.07	-0.001101	Within authorized band for BAND II	Pass
	-20	-2.61	-0.001388		
	-10	-4.05	-0.002154		
	0	-0.46	-0.000245		
	10	-2.14	-0.001138		
	20	-3.28	-0.001745		
	30	-4.18	-0.002223		
	40	-1.03	-0.000548		
	50	-2.27	-0.001207		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.03	0.000016	Within authorized band for BAND II	Pass
	3.87	4.13	0.002197		
	4.45	-1.35	-0.000718		
<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

