

## 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	TestMode	9262	22.79	21.39	33	PASS
Band2	Voice	9262	22.77	21.37	33	PASS
Band2	Voice	9400	22.75	21.35	33	PASS
Band2	TestMode	9400	22.76	21.36	33	PASS
Band2	TestMode	9538	22.86	20.36	33	PASS
Band2	Voice	9538	22.85	20.35	33	PASS
Band4	TestMode	1312	22.76	21.06	30	PASS
Band4	Voice	1312	22.77	21.07	30	PASS
Band4	TestMode	1413	22.77	21.07	30	PASS
Band4	Voice	1413	22.79	21.09	30	PASS
Band4	Voice	1513	22.75	21.35	30	PASS
Band4	TestMode	1513	22.77	21.37	30	PASS
Band5	Voice	4132	22.68	18.63	38.5	PASS
Band5	TestMode	4132	22.69	18.64	38.5	PASS
Band5	TestMode	4183	22.90	19.05	38.5	PASS
Band5	Voice	4183	22.89	19.04	38.5	PASS
Band5	TestMode	4233	22.87	19.02	38.5	PASS
Band5	Voice	4233	22.85	19	38.5	PASS

### Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	22.28	20.88	33	PASS
Band2	9262	2	21.97	20.57	33	PASS
Band2	9262	3	21.79	20.39	33	PASS
Band2	9262	4	21.83	20.43	33	PASS
Band2	9400	1	22.28	20.88	33	PASS
Band2	9400	2	21.92	20.52	33	PASS
Band2	9400	3	21.76	20.36	33	PASS
Band2	9400	4	21.75	20.35	33	PASS
Band2	9538	1	22.32	20.92	33	PASS
Band2	9538	2	22.01	20.61	33	PASS
Band2	9538	3	21.79	20.39	33	PASS
Band2	9538	4	21.88	20.48	33	PASS

Band4	1312	1	22.07	20.37	30	PASS
Band4	1312	2	22.19	20.49	30	PASS
Band4	1312	3	22.22	20.52	30	PASS
Band4	1312	4	22.25	20.55	30	PASS
Band4	1413	1	22.30	20.60	30	PASS
Band4	1413	2	22.42	20.72	30	PASS
Band4	1413	3	22.43	20.73	30	PASS
Band4	1413	4	22.47	20.77	30	PASS
Band4	1513	1	22.06	20.36	30	PASS
Band4	1513	2	22.20	20.50	30	PASS
Band4	1513	3	22.19	20.49	30	PASS
Band4	1513	4	22.22	20.52	30	PASS
Band5	4132	1	22.36	17.81	38.5	PASS
Band5	4132	2	22.02	17.47	38.5	PASS
Band5	4132	3	21.42	16.87	38.5	PASS
Band5	4132	4	21.43	16.88	38.5	PASS
Band5	4183	1	21.71	17.16	38.5	PASS
Band5	4183	2	21.64	17.09	38.5	PASS
Band5	4183	3	21.18	16.63	38.5	PASS
Band5	4183	4	21.09	16.54	38.5	PASS
Band5	4233	1	22.23	17.68	38.5	PASS
Band5	4233	2	21.86	17.31	38.5	PASS
Band5	4233	3	21.29	16.74	38.5	PASS
Band5	4233	4	21.34	16.79	38.5	PASS

**Test Result(HSUPA)**

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.99	18.59	33	PASS
Band2	9262	2	20.43	19.03	33	PASS
Band2	9262	3	19.95	18.55	33	PASS
Band2	9262	4	20.29	18.89	33	PASS
Band2	9262	5	22.40	21.00	33	PASS
Band2	9400	1	19.97	18.57	33	PASS
Band2	9400	2	20.43	19.03	33	PASS
Band2	9400	3	19.93	18.53	33	PASS
Band2	9400	4	20.29	18.89	33	PASS
Band2	9400	5	22.39	20.99	33	PASS
Band2	9538	1	20.24	18.84	33	PASS
Band2	9538	2	20.64	19.24	33	PASS
Band2	9538	3	20.18	18.78	33	PASS

Band2	9538	4	20.50	19.10	33	PASS
Band2	9538	5	22.46	21.06	33	PASS
Band4	1312	1	21.88	20.18	30	PASS
Band4	1312	2	22.01	20.31	30	PASS
Band4	1312	3	21.50	19.80	30	PASS
Band4	1312	4	21.81	20.11	30	PASS
Band4	1312	5	22.30	20.60	30	PASS
Band4	1413	1	22.15	20.45	30	PASS
Band4	1413	2	22.26	20.56	30	PASS
Band4	1413	3	21.77	20.07	30	PASS
Band4	1413	4	22.07	20.37	30	PASS
Band4	1413	5	22.64	20.94	30	PASS
Band4	1513	1	21.94	20.24	30	PASS
Band4	1513	2	22.06	20.36	30	PASS
Band4	1513	3	21.56	19.86	30	PASS
Band4	1513	4	21.87	20.17	30	PASS
Band4	1513	5	22.43	20.73	30	PASS
Band5	4132	1	20.49	15.94	38.5	PASS
Band5	4132	2	20.66	16.11	38.5	PASS
Band5	4132	3	20.13	15.58	38.5	PASS
Band5	4132	4	20.18	15.63	38.5	PASS
Band5	4132	5	22.00	17.45	38.5	PASS
Band5	4183	1	20.21	15.66	38.5	PASS
Band5	4183	2	20.29	15.74	38.5	PASS
Band5	4183	3	19.90	15.35	38.5	PASS
Band5	4183	4	19.71	15.16	38.5	PASS
Band5	4183	5	21.68	17.13	38.5	PASS
Band5	4233	1	20.43	15.88	38.5	PASS
Band5	4233	2	20.51	15.96	38.5	PASS
Band5	4233	3	20.11	15.56	38.5	PASS
Band5	4233	4	19.94	15.39	38.5	PASS
Band5	4233	5	21.78	17.23	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)

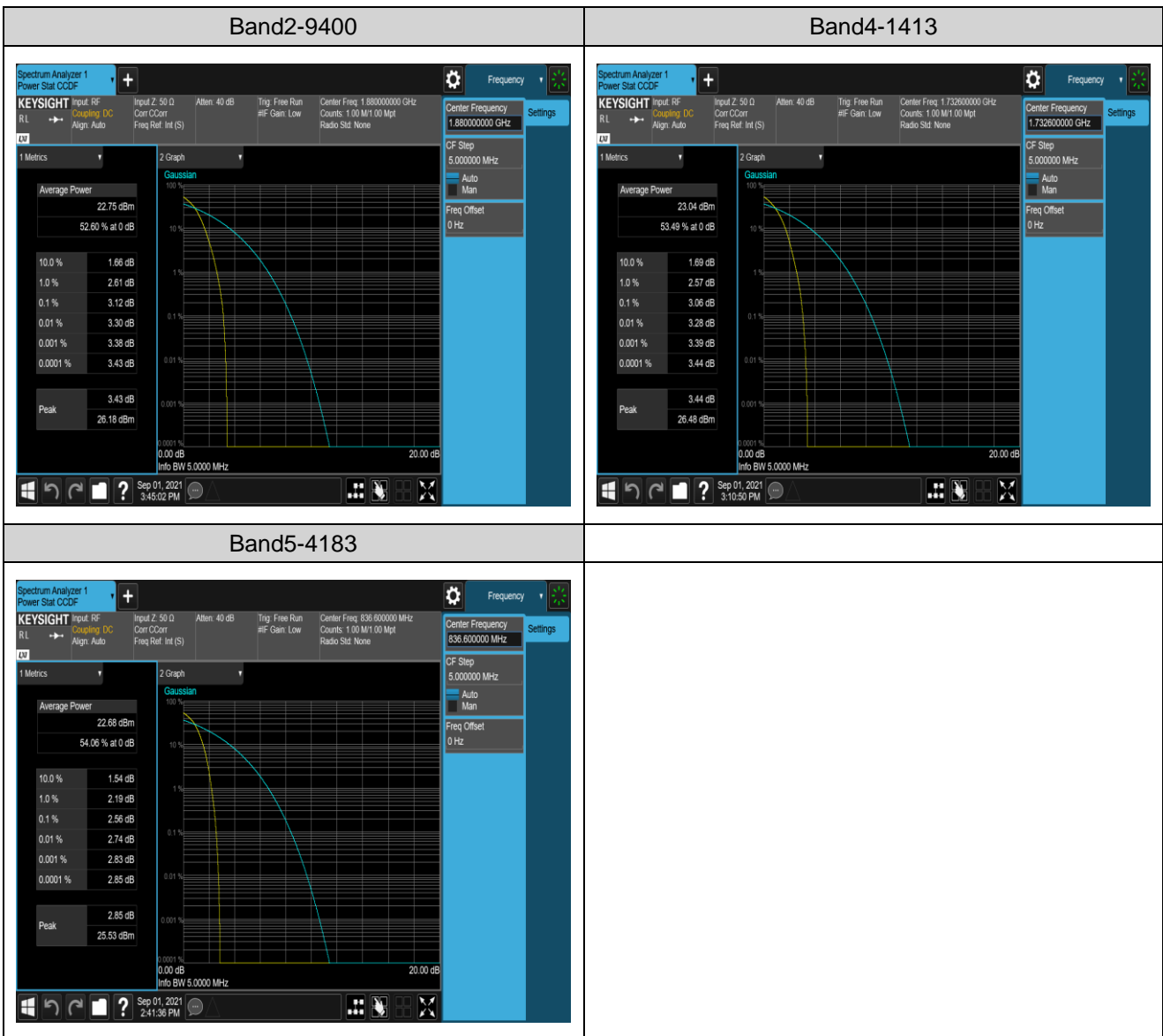
## Appendix B: Peak-to-Average Ratio

### Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.12	13	PASS
Band4	1413	3.06	13	PASS
Band5	4183	2.56	13	PASS

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

### Test Graphs(WCDMA)

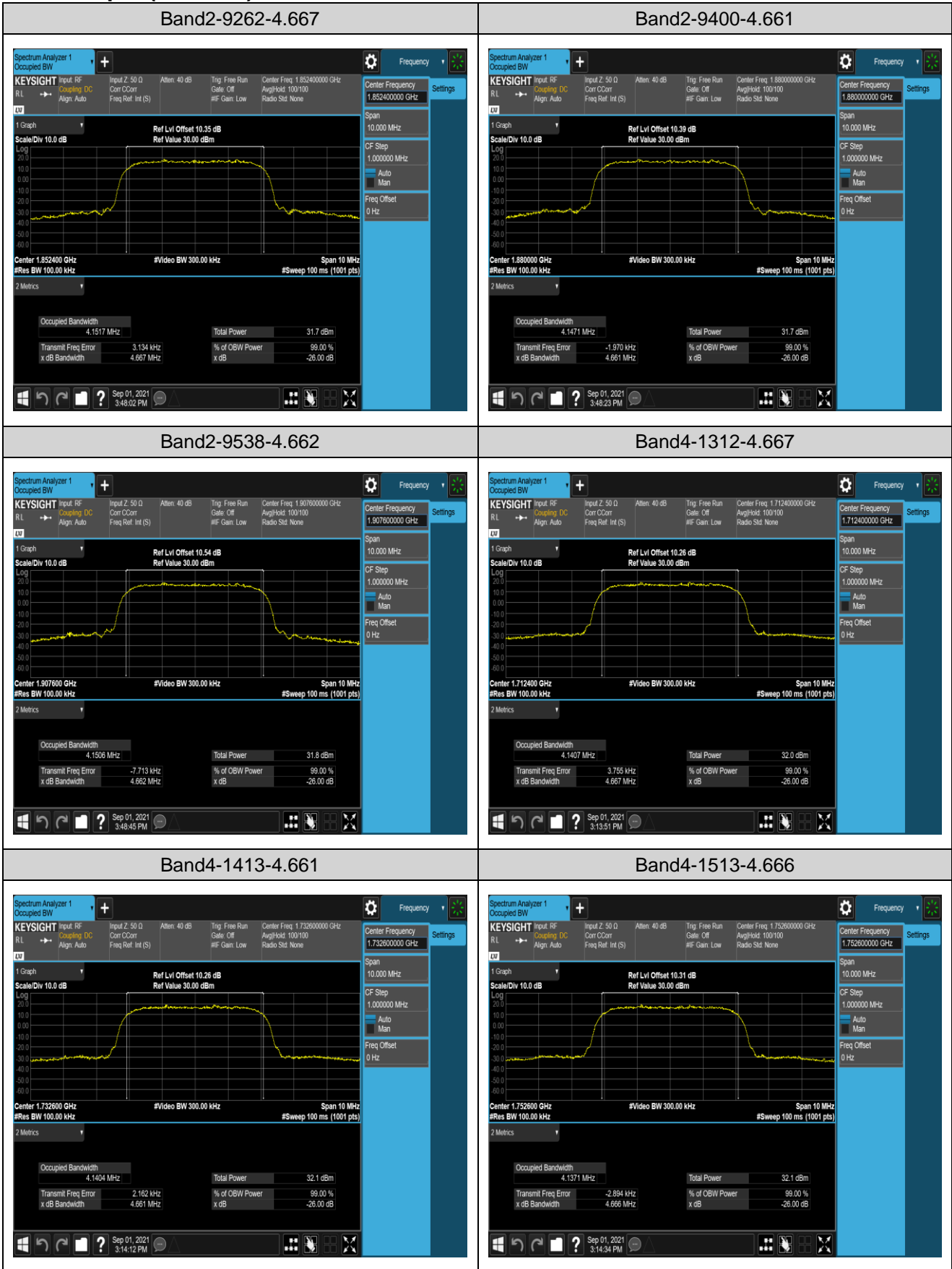


## AppendixC:26dB Bandwidth andOccupied Bandwidth

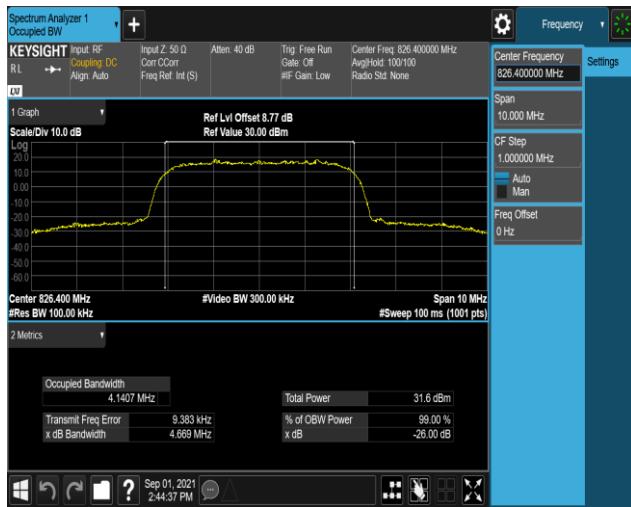
### Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1517	4.667	---	PASS
Band2	9400	4.1471	4.661	---	PASS
Band2	9538	4.1506	4.662	---	PASS
Band4	1312	4.1407	4.667	---	PASS
Band4	1413	4.1404	4.661	---	PASS
Band4	1513	4.1371	4.666	---	PASS
Band5	4132	4.1407	4.669	---	PASS
Band5	4183	4.1723	4.709	---	PASS
Band5	4233	4.1630	4.675	---	PASS

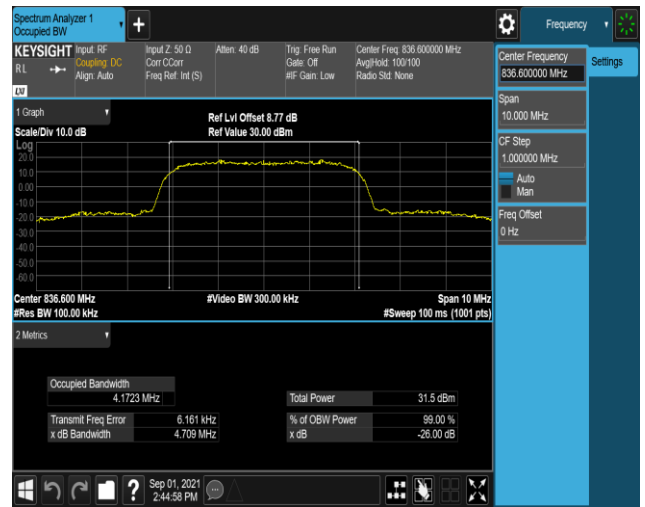
Test Graphs(WCDMA)



Band5-4132-4.669



Band5-4183-4.709



Band5-4233-4.675



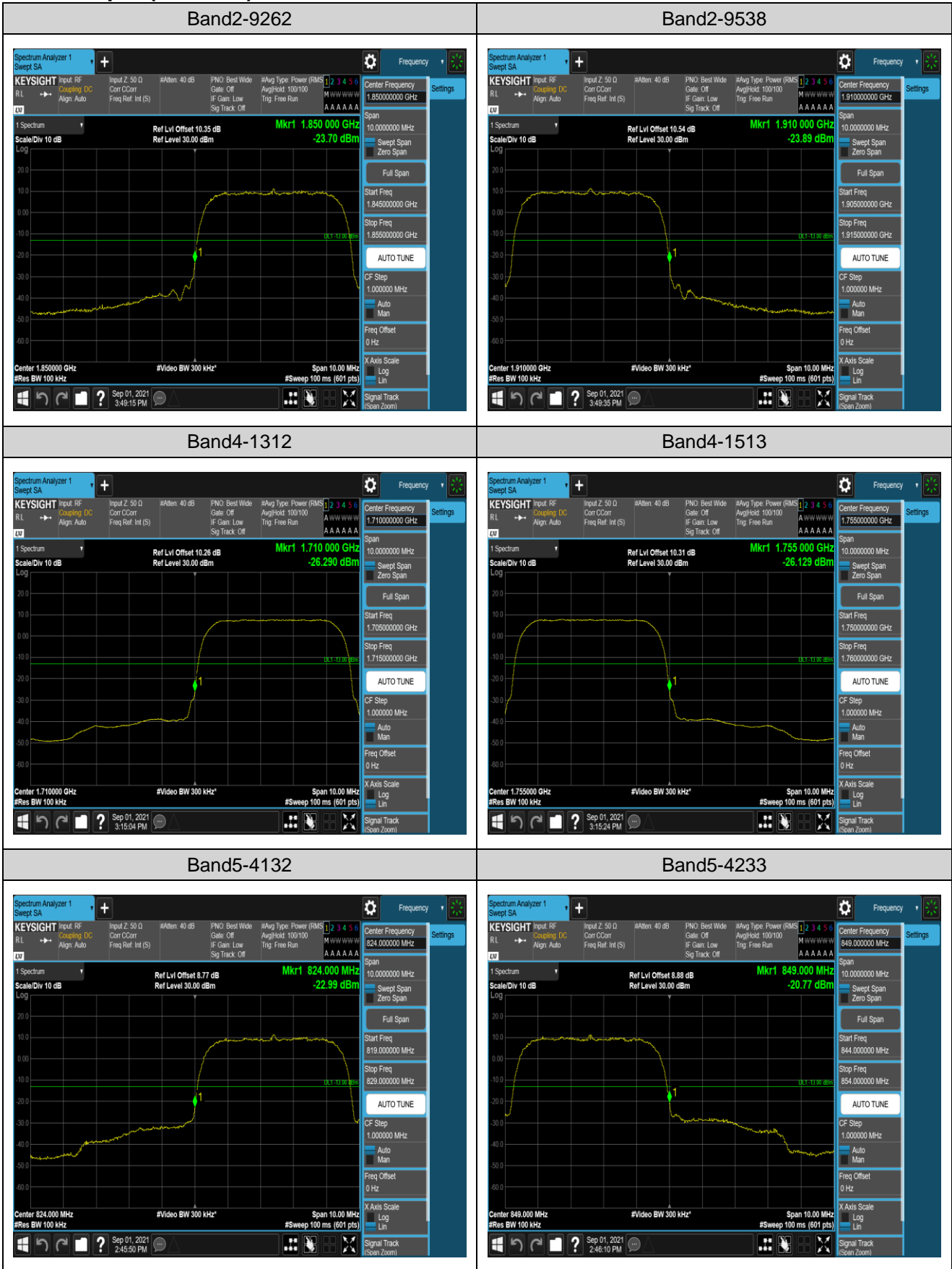
## AppendixD:Band Edge

### Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-23.70	-13	PASS
Band2	9538	1910.00	-23.89	-13	PASS
Band4	1312	1710.00	-26.29	-13	PASS
Band4	1513	1755.00	-26.13	-13	PASS
Band5	4132	824.00	-22.99	-13	PASS
Band5	4233	849.00	-20.77	-13	PASS



Test Graphs(WCDMA)



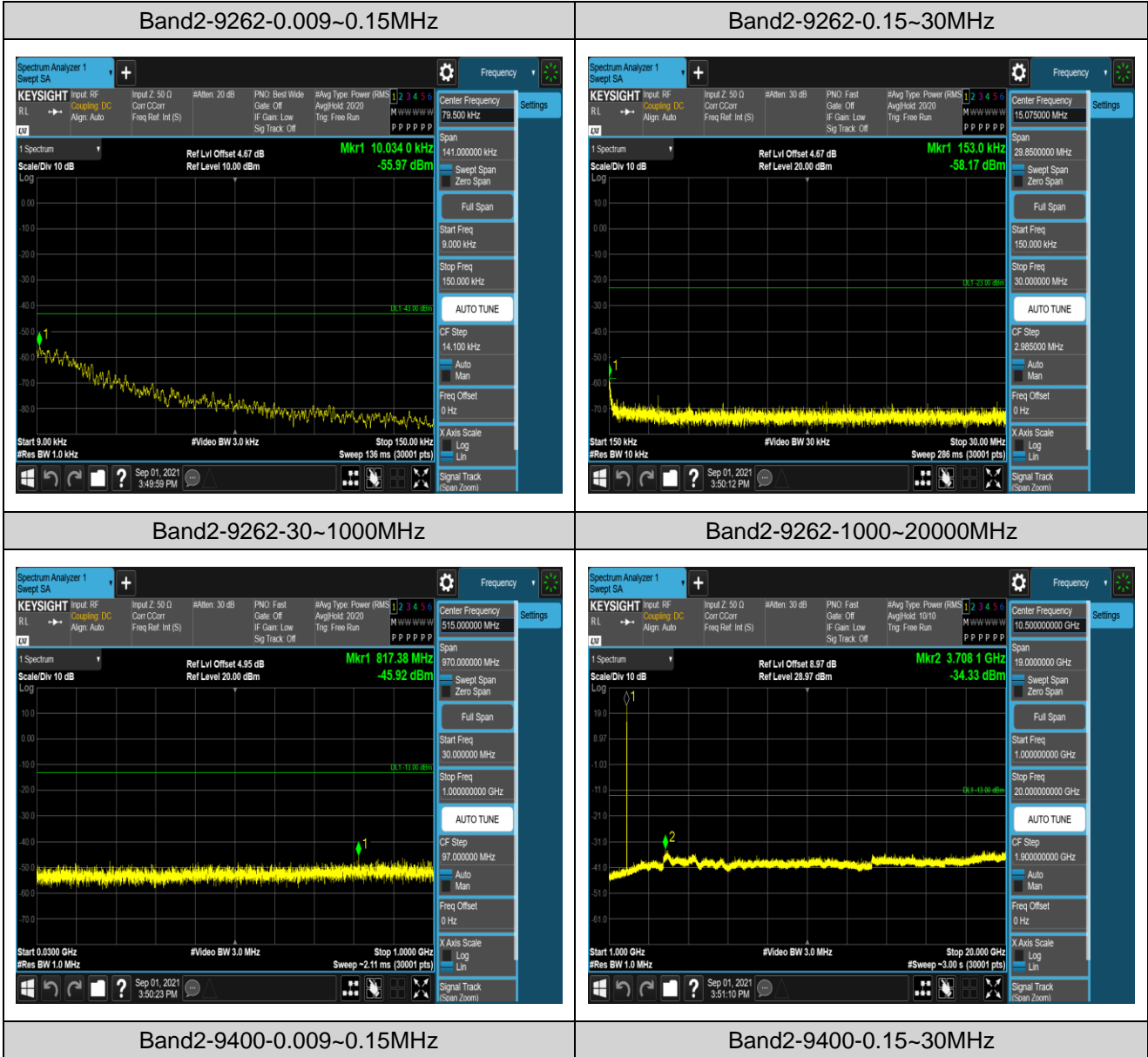
## AppendixE:Conducted SpuriousEmission

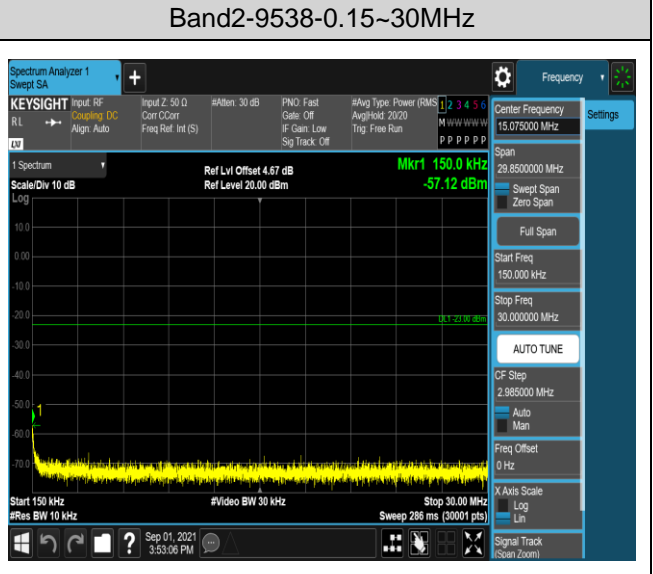
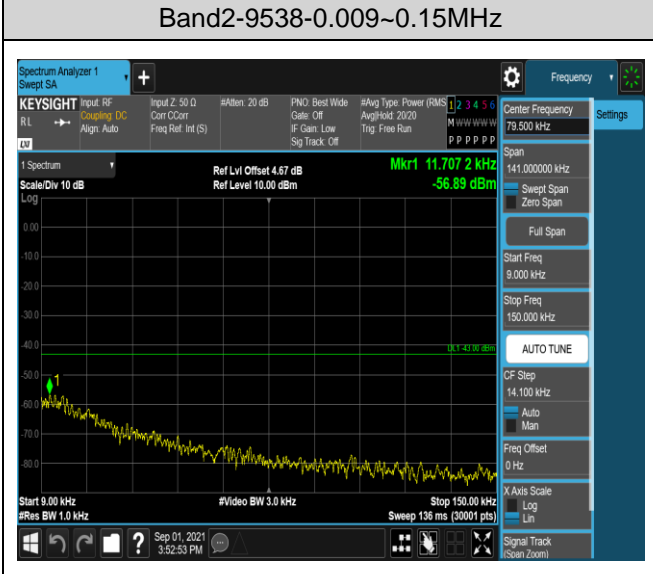
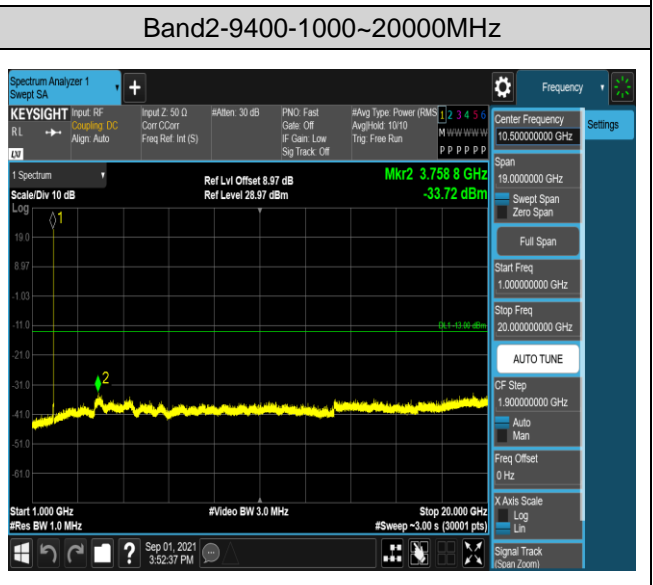
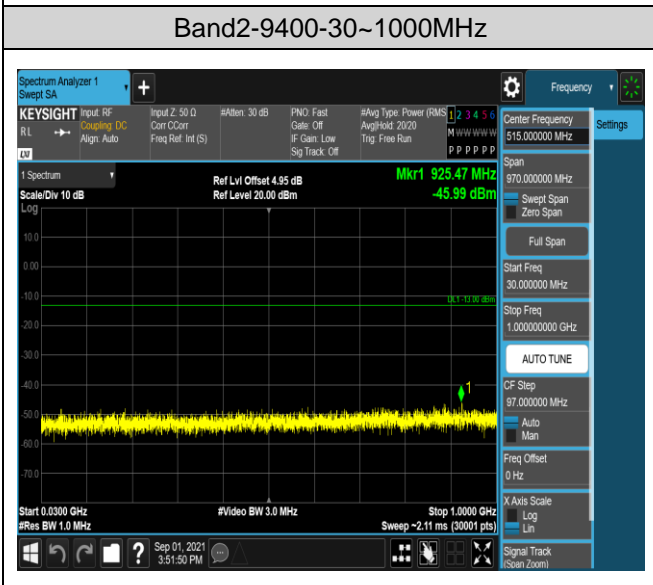
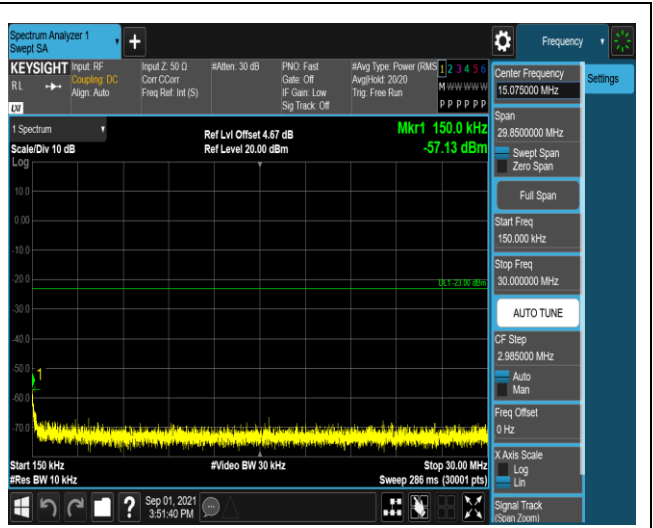
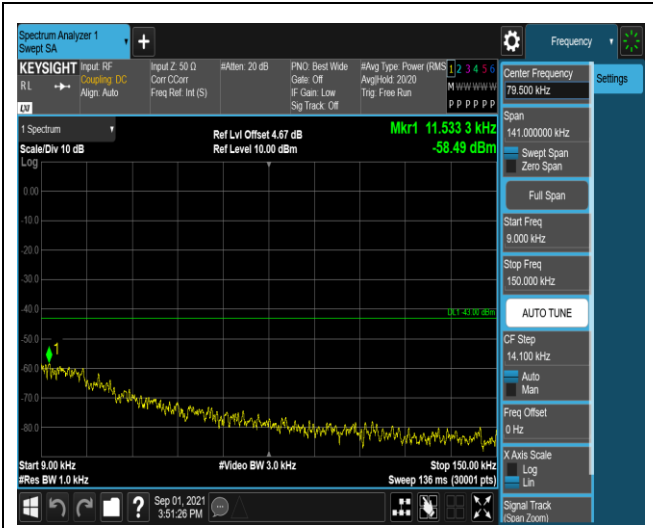
### Test Result(WCDMA)

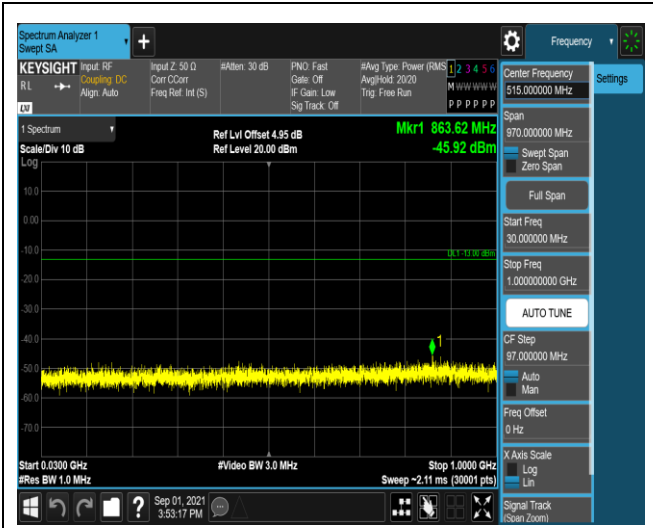
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-55.97	-43	PASS
Band2	9262	0.15~30MHz	0.15	-58.17	-23	PASS
Band2	9262	30~1000MHz	817.38	-45.92	-13	PASS
Band2	9262	1000~20000MHz	3708.13	-34.33	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-58.49	-43	PASS
Band2	9400	0.15~30MHz	0.15	-57.13	-23	PASS
Band2	9400	30~1000MHz	925.47	-45.99	-13	PASS
Band2	9400	1000~20000MHz	3758.8	-33.72	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.89	-43	PASS
Band2	9538	0.15~30MHz	0.15	-57.12	-23	PASS
Band2	9538	30~1000MHz	863.62	-45.92	-13	PASS
Band2	9538	1000~20000MHz	3813.9	-33.81	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.25	-43	PASS
Band4	1312	0.15~30MHz	0.16	-55.89	-23	PASS
Band4	1312	30~1000MHz	889.48	-46.11	-13	PASS
Band4	1312	1000~20000MHz	3744.87	-34.55	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.5	-43	PASS
Band4	1413	0.15~30MHz	0.16	-56.99	-23	PASS
Band4	1413	30~1000MHz	92.14	-46.44	-13	PASS
Band4	1413	1000~20000MHz	19806.2	-33.88	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-55.73	-43	PASS
Band4	1513	0.15~30MHz	0.15	-57.22	-23	PASS
Band4	1513	30~1000MHz	898.89	-45.84	-13	PASS
Band4	1513	1000~20000MHz	3807.57	-34.42	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-56.53	-33	PASS
Band5	4132	0.15~30MHz	0.15	-54.81	-13	PASS
Band5	4132	30~1000MHz	973.52	-54.99	-13	PASS
Band5	4132	1000~10000MHz	3739.6	-34.17	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.87	-33	PASS
Band5	4183	0.15~30MHz	0.15	-57.19	-13	PASS
Band5	4183	30~1000MHz	687.69	-55.49	-13	PASS
Band5	4183	1000~10000MHz	3778.6	-34.16	-13	PASS
Band5	4233	0.009~0.15MHz	0.02	-56.94	-33	PASS
Band5	4233	0.15~30MHz	0.17	-55.87	-13	PASS
Band5	4233	30~1000MHz	992.5	-55.45	-13	PASS

Band5	4233	1000~10000MHz	3814.3	-34.89	-13	PASS
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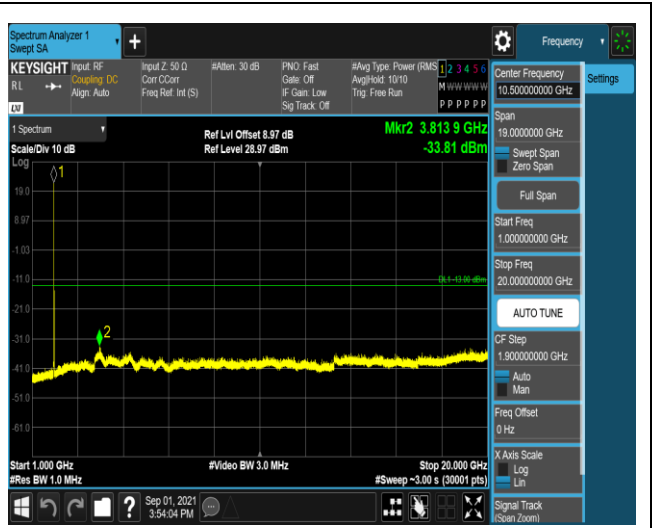
**Test Graphs(WCDMA)**



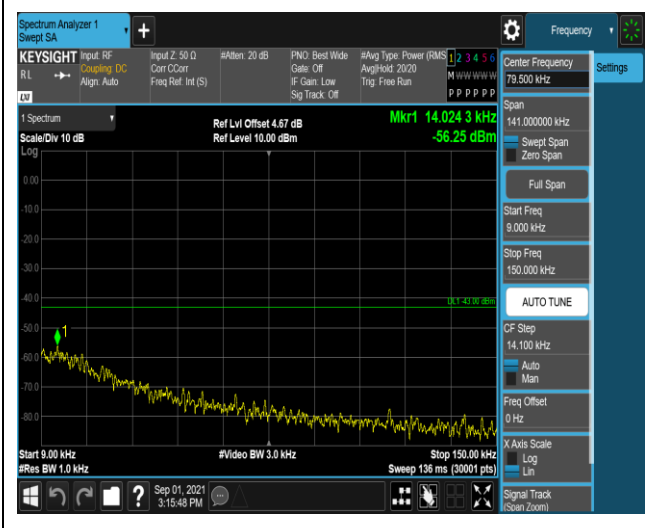




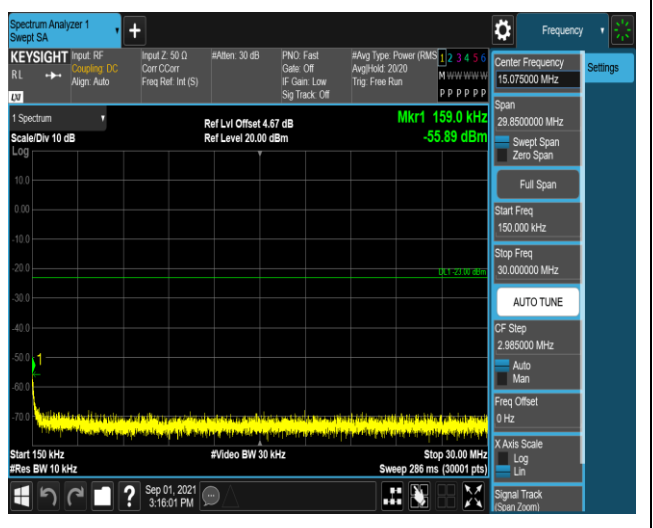
Band4-1312-0.009~0.15MHz



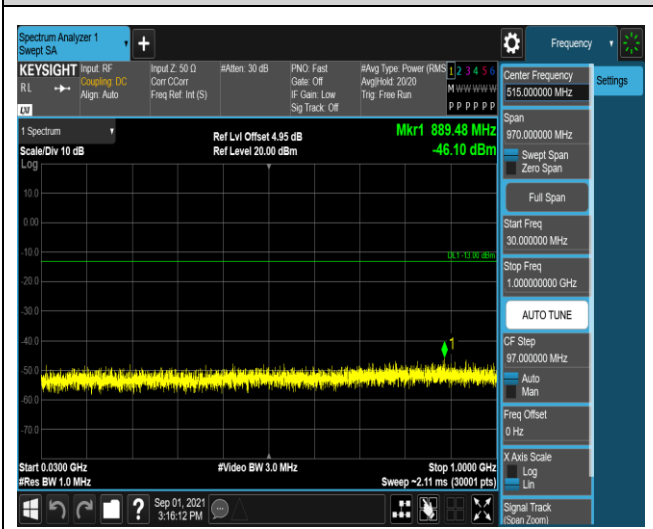
Band4-1312-0.15~30MHz



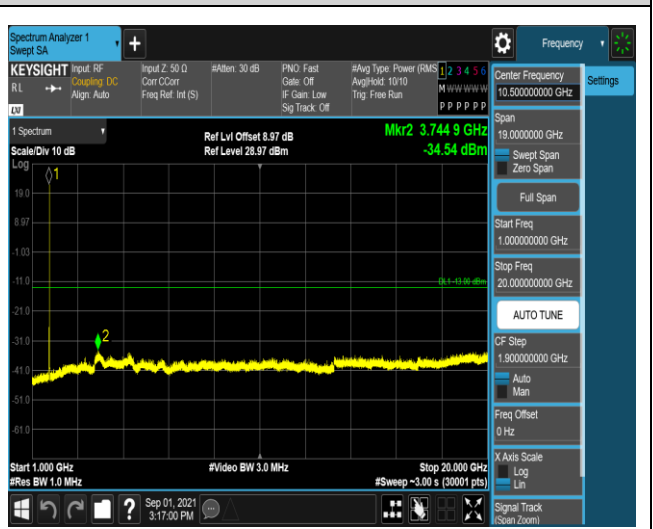
Band4-1312-30~1000MHz



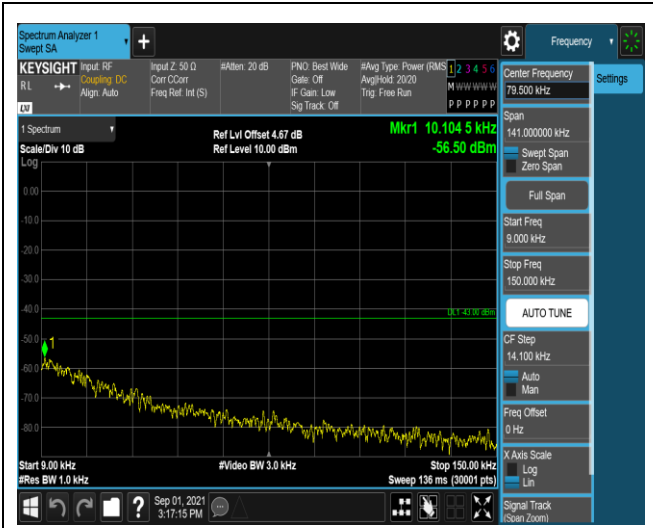
Band4-1312-1000~20000MHz



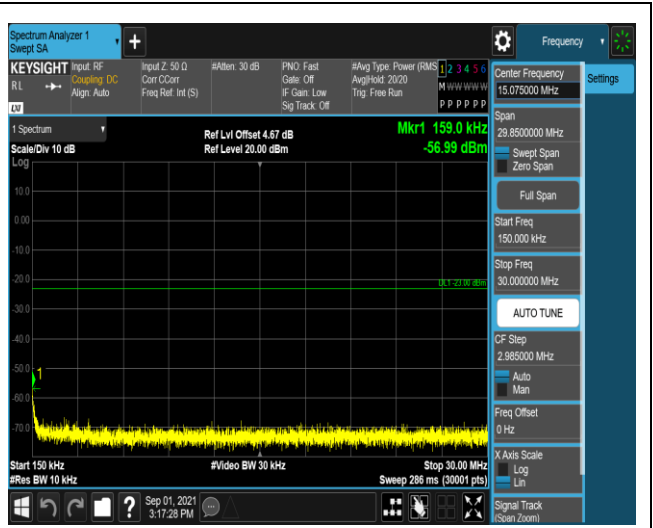
Band4-1413-0.009~0.15MHz



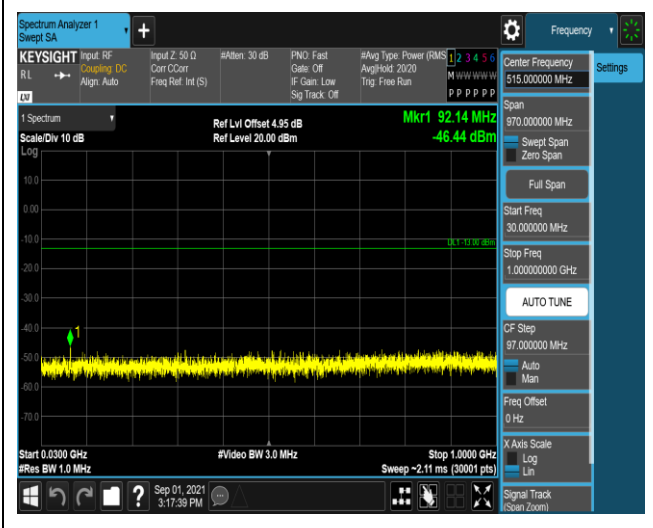
Band4-1413-0.15~30MHz



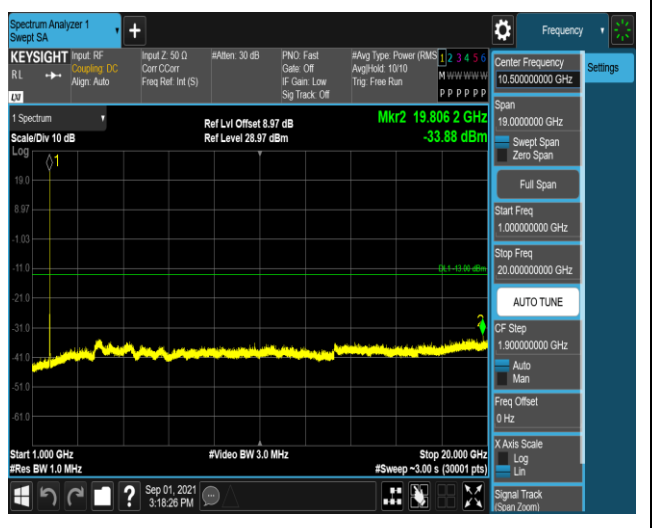
Band4-1413-30~1000MHz



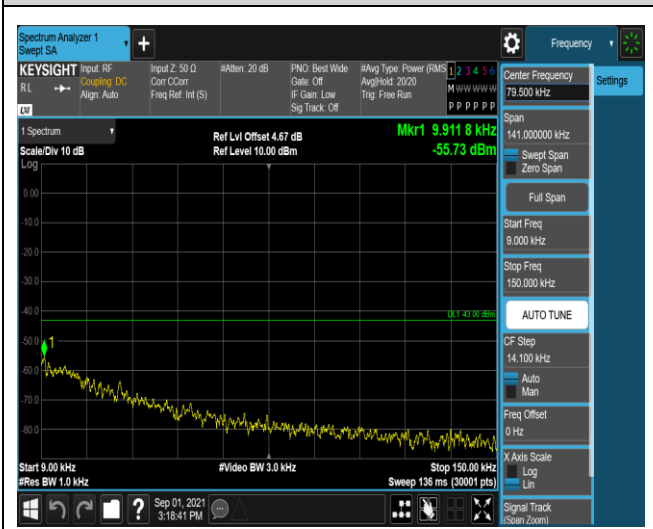
Band4-1413-1000~20000MHz



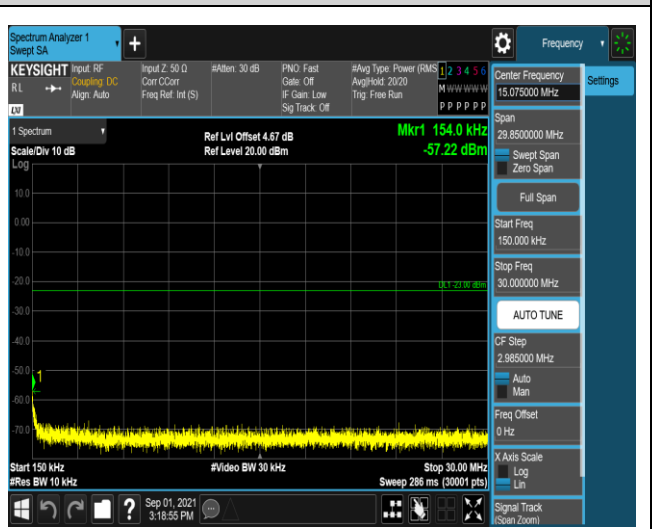
Band4-1513-0.009~0.15MHz



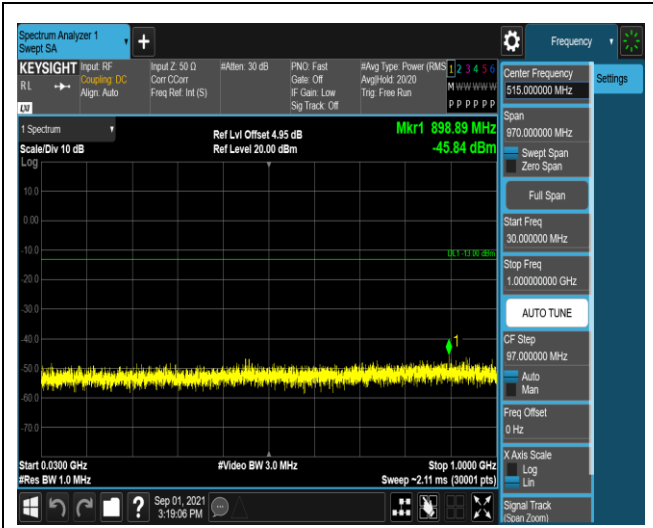
Band4-1513-0.15~30MHz



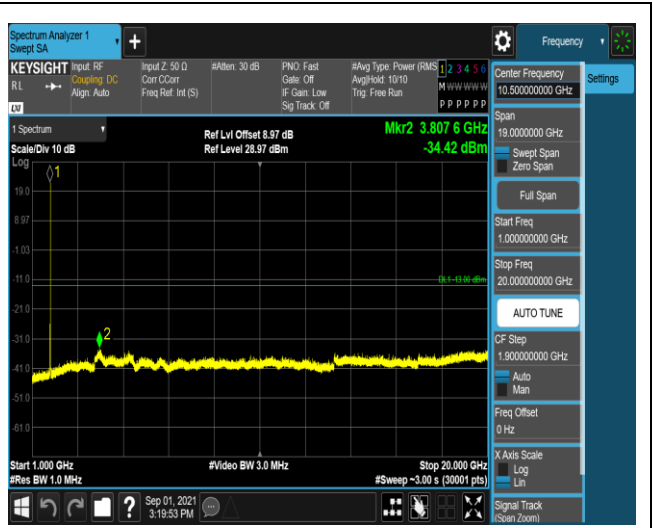
Band4-1513-30~1000MHz



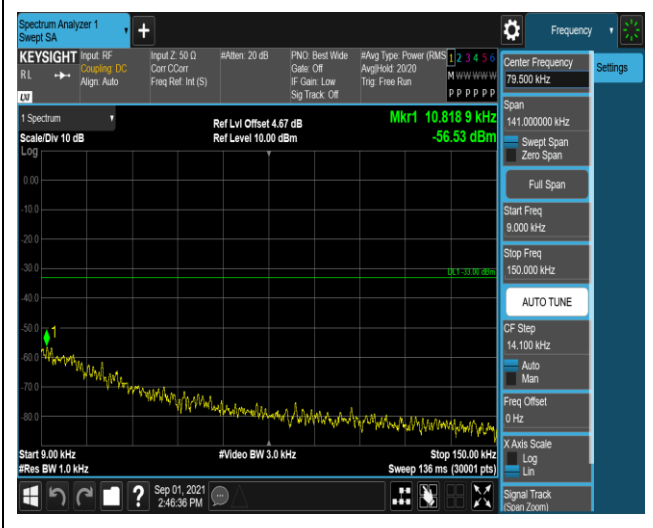
Band4-1513-1000~20000MHz



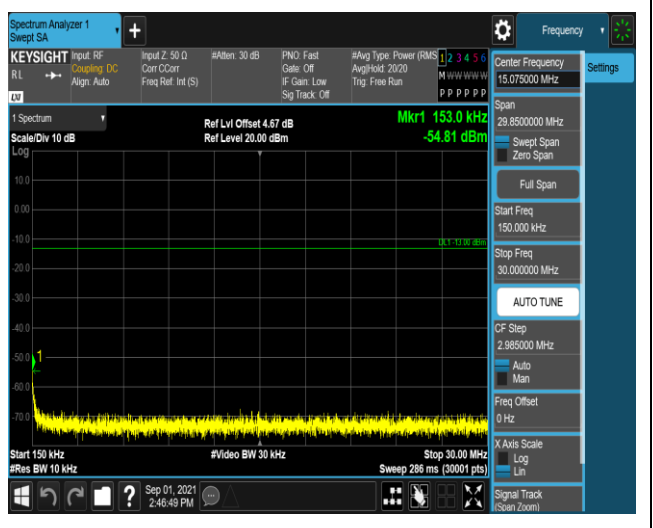
Band5-4132-0.009~0.15MHz



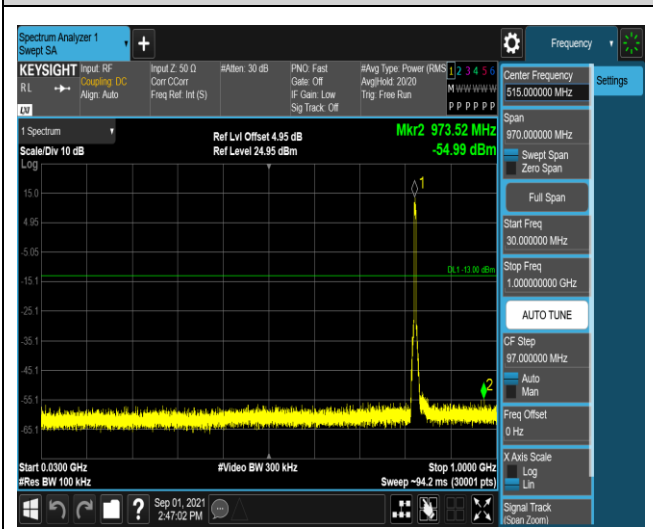
Band5-4132-0.15~30MHz



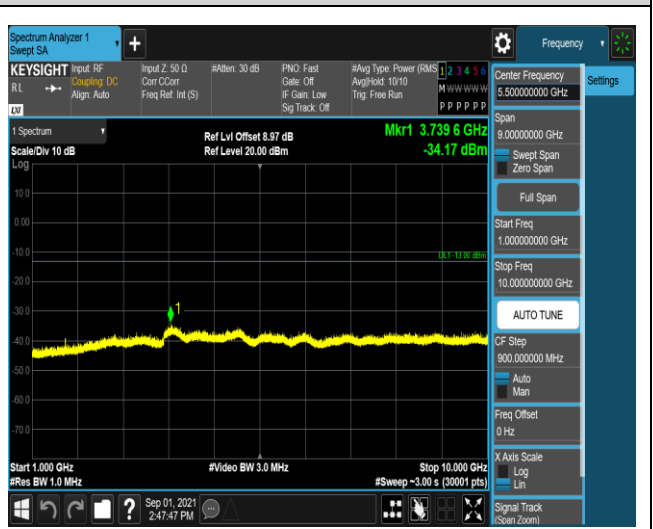
Band5-4132-30~1000MHz



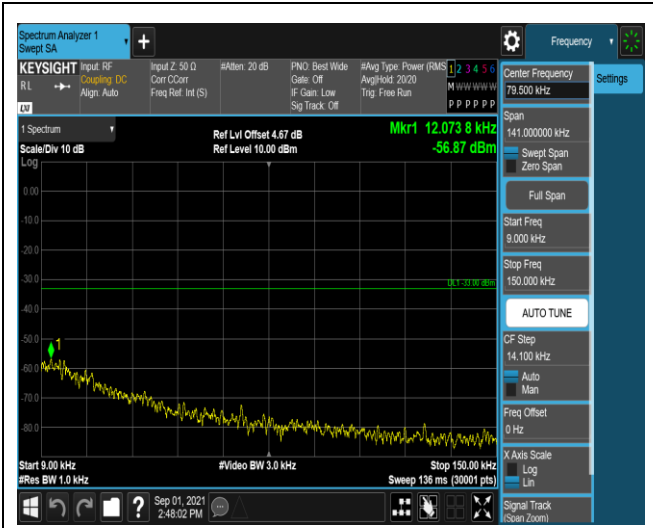
Band5-4132-1000~10000MHz



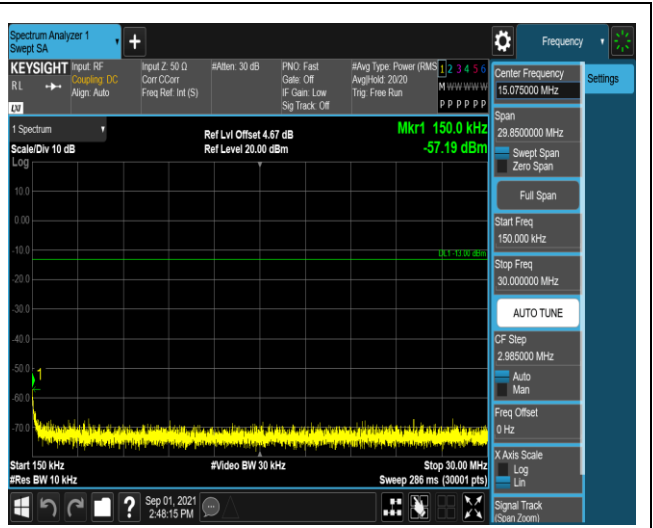
Band5-4183-0.009~0.15MHz



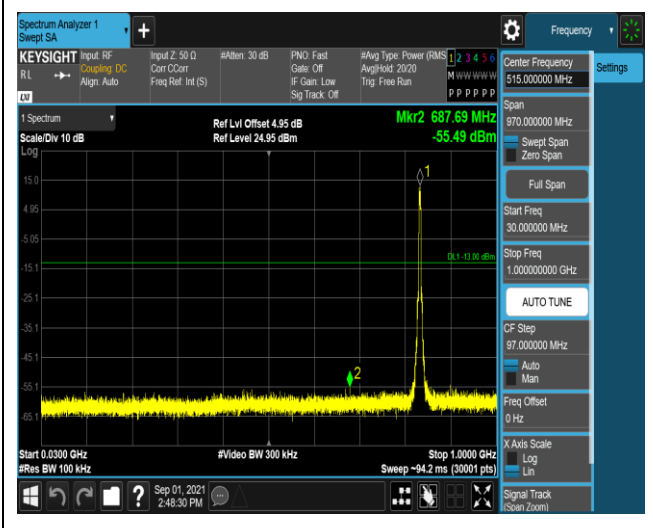
Band5-4183-0.15~30MHz



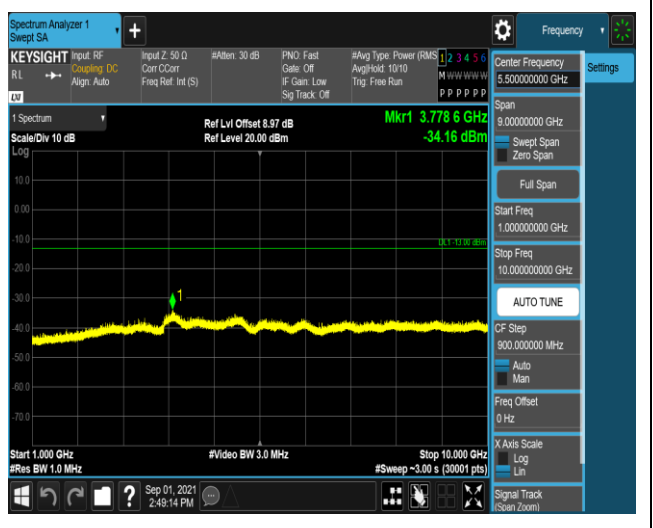
Band5-4183-30~1000MHz



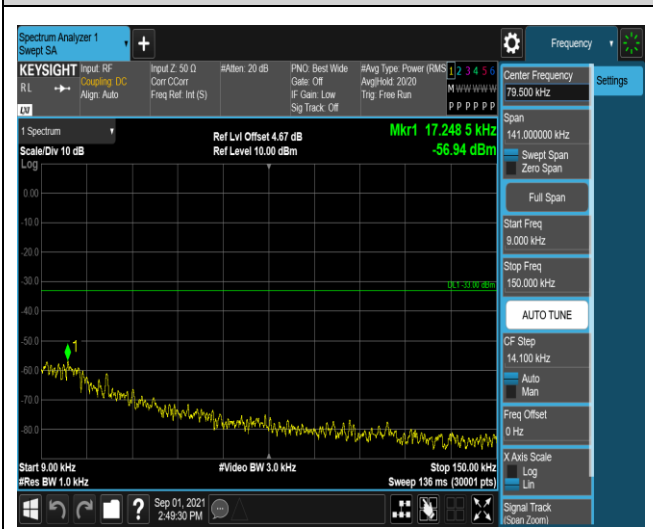
Band5-4183-1000~10000MHz



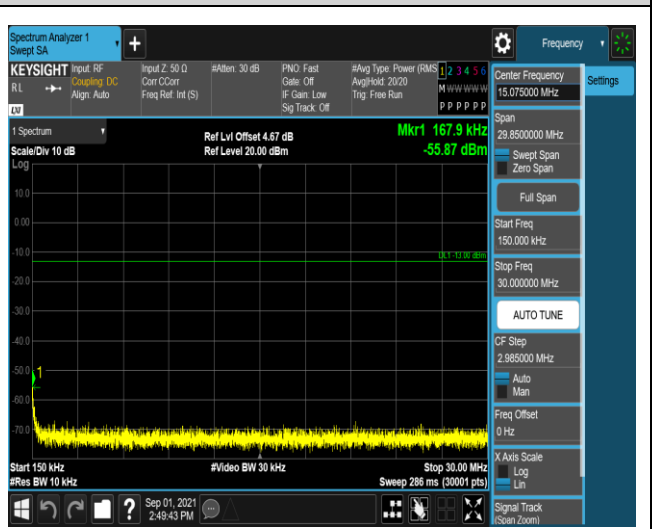
Band5-4233-0.009~0.15MHz



Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz





## Appendix F: Frequency Stability

### Test Result

Reference Frequency: WCDMA BAND II 12.2k RMC Middle channel=9400 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	6.74	0.003585	Within authorized band for BAND II	Pass
	-20	-5.64	-0.003000		
	-10	-4.66	-0.002479		
	0	0.74	0.000394		
	10	4.55	0.002420		
	20	-4.11	-0.002186		
	30	-7.90	-0.004202		
	40	-2.23	-0.001186		
	50	3.51	0.001867		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.50	0.000798	Within authorized band for BAND II	Pass
	3.85	-5.55	-0.002952		
	4.40	-3.45	-0.001835		
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 channel=1413 Frequency=1732.6MHz**

Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-4.37	-0.002522	Within authorized band for BAND IV	Pass
	-20	-1.36	-0.000785		
	-10	-10.04	-0.005795		
	0	-1.32	-0.000762		
	10	11.28	0.006510		
	20	10.27	0.005928		
	30	3.50	0.002020		
	40	8.31	0.004796		
	50	3.51	0.002026		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-3.81	-0.002199	Within authorized band for BAND IV	Pass
	3.85	1.61	0.000929		
	4.40	1.32	0.000762		
<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	-1.29	-0.001542	±2.5	Pass
	-20	-1.69	-0.002020		
	-10	0.79	0.000944		
	0	1.28	0.001530		
	10	0.83	0.000992		
	20	-1.40	-0.001673		
	30	-0.71	-0.000849		
	40	-1.51	-0.001805		
	50	-2.13	-0.002546		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-3.81	-0.002199	±2.5	Pass
	3.85	1.61	0.000929		
	4.40	1.32	0.000762		
<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

