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	22.12	20.92	33.01	PASS
Band2	TestMode	9262	22.13	20.93	33.01	PASS
Band2	TestMode	9400	22.38	21.18	33.01	PASS
Band2	Voice	9400	22.34	21.14	33.01	PASS
Band2	TestMode	9538	22.57	21.37	33.01	PASS
Band2	Voice	9538	22.53	21.33	33.01	PASS
Band4	Voice	1312	20.46	19.26	30.00	PASS
Band4	TestMode	1312	20.58	19.38	30.00	PASS
Band4	Voice	1413	20.73	19.53	30.00	PASS
Band4	TestMode	1413	20.77	19.57	30.00	PASS
Band4	TestMode	1513	20.69	19.49	30.00	PASS
Band4	Voice	1513	20.59	19.39	30.00	PASS
Band5	Voice	4132	23.49	15.24	38.45	PASS
Band5	TestMode	4132	23.49	15.24	38.45	PASS
Band5	TestMode	4183	23.49	15.24	38.45	PASS
Band5	Voice	4183	23.51	15.26	38.45	PASS
Band5	Voice	4233	23.31	15.06	38.45	PASS
Band5	TestMode	4233	23.34	15.09	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.19	19.99	33.01	PASS
Band2	9262	2	20.69	19.49	33.01	PASS
Band2	9262	3	20.67	19.47	33.01	PASS
Band2	9262	4	20.63	19.43	33.01	PASS
Band2	9400	1	21.47	20.27	33.01	PASS
Band2	9400	2	20.93	19.73	33.01	PASS
Band2	9400	3	20.96	19.76	33.01	PASS
Band2	9400	4	20.87	19.67	33.01	PASS
Band2	9538	1	21.65	20.45	33.01	PASS
Band2	9538	2	21.10	19.9	33.01	PASS
Band2	9538	3	21.12	19.92	33.01	PASS
Band2	9538	4	21.04	19.84	33.01	PASS

Band4	1312	1	19.39	18.19	30.00	PASS
Band4	1312	2	18.88	17.68	30.00	PASS
Band4	1312	3	18.09	16.89	30.00	PASS
Band4	1312	4	18.03	16.83	30.00	PASS
Band4	1413	1	19.56	18.36	30.00	PASS
Band4	1413	2	19.07	17.87	30.00	PASS
Band4	1413	3	19.04	17.84	30.00	PASS
Band4	1413	4	18.32	17.12	30.00	PASS
Band4	1513	1	19.50	18.3	30.00	PASS
Band4	1513	2	18.94	17.74	30.00	PASS
Band4	1513	3	18.98	17.78	30.00	PASS
Band4	1513	4	18.25	17.05	30.00	PASS
Band5	4132	1	22.52	14.27	38.5	PASS
Band5	4132	2	21.96	13.71	38.5	PASS
Band5	4132	3	21.98	13.73	38.5	PASS
Band5	4132	4	21.94	13.69	38.5	PASS
Band5	4183	1	22.55	14.3	38.5	PASS
Band5	4183	2	22.00	13.75	38.5	PASS
Band5	4183	3	22.02	13.77	38.5	PASS
Band5	4183	4	21.96	13.71	38.5	PASS
Band5	4233	1	22.36	14.11	38.5	PASS
Band5	4233	2	21.82	13.57	38.5	PASS
Band5	4233	3	21.80	13.55	38.5	PASS
Band5	4233	4	21.82	13.57	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.18	17.98	33.01	PASS
Band2	9262	2	19.71	18.51	33.01	PASS
Band2	9262	3	20.15	18.95	33.01	PASS
Band2	9262	4	19.25	18.05	33.01	PASS
Band2	9262	5	21.19	19.99	33.01	PASS
Band2	9400	1	19.39	18.19	33.01	PASS
Band2	9400	2	19.95	18.75	33.01	PASS
Band2	9400	3	20.41	19.21	33.01	PASS
Band2	9400	4	19.49	18.29	33.01	PASS
Band2	9400	5	21.43	20.23	33.01	PASS
Band2	9538	1	19.55	18.35	33.01	PASS
Band2	9538	2	20.07	18.87	33.01	PASS
Band2	9538	3	20.59	19.39	33.01	PASS

Band2	9538	4	19.61	18.41	33.01	PASS
Band2	9538	5	21.60	20.4	33.01	PASS
Band4	1312	1	17.31	16.11	30.00	PASS
Band4	1312	2	17.47	16.27	30.00	PASS
Band4	1312	3	17.68	16.48	30.00	PASS
Band4	1312	4	16.72	15.52	30.00	PASS
Band4	1312	5	18.74	17.54	30.00	PASS
Band4	1413	1	17.00	15.8	30.00	PASS
Band4	1413	2	17.05	15.85	30.00	PASS
Band4	1413	3	17.88	16.68	30.00	PASS
Band4	1413	4	16.86	15.66	30.00	PASS
Band4	1413	5	18.89	17.69	30.00	PASS
Band4	1513	1	17.56	16.36	30.00	PASS
Band4	1513	2	16.60	15.4	30.00	PASS
Band4	1513	3	17.86	16.66	30.00	PASS
Band4	1513	4	16.81	15.61	30.00	PASS
Band4	1513	5	18.84	17.64	30.00	PASS
Band5	4132	1	20.51	12.26	38.5	PASS
Band5	4132	2	21.03	12.78	38.5	PASS
Band5	4132	3	21.56	13.31	38.5	PASS
Band5	4132	4	20.56	12.31	38.5	PASS
Band5	4132	5	22.54	14.29	38.5	PASS
Band5	4183	1	20.56	12.31	38.5	PASS
Band5	4183	2	21.05	12.8	38.5	PASS
Band5	4183	3	21.58	13.33	38.5	PASS
Band5	4183	4	20.63	12.38	38.5	PASS
Band5	4183	5	22.59	14.34	38.5	PASS
Band5	4233	1	20.40	12.15	38.5	PASS
Band5	4233	2	20.86	12.61	38.5	PASS
Band5	4233	3	21.37	13.12	38.5	PASS
Band5	4233	4	20.42	12.17	38.5	PASS
Band5	4233	5	22.38	14.13	38.5	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For Band2,4)
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For Band5)

AppendixB:Peak-to-Average Ratio

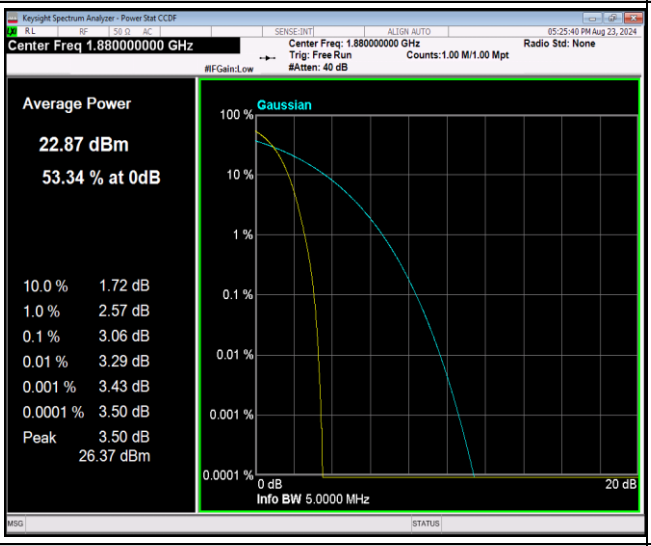
Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	3.06	13	PASS
Band4	1413	3.1	13	PASS
Band5	4183	3.12	13	PASS

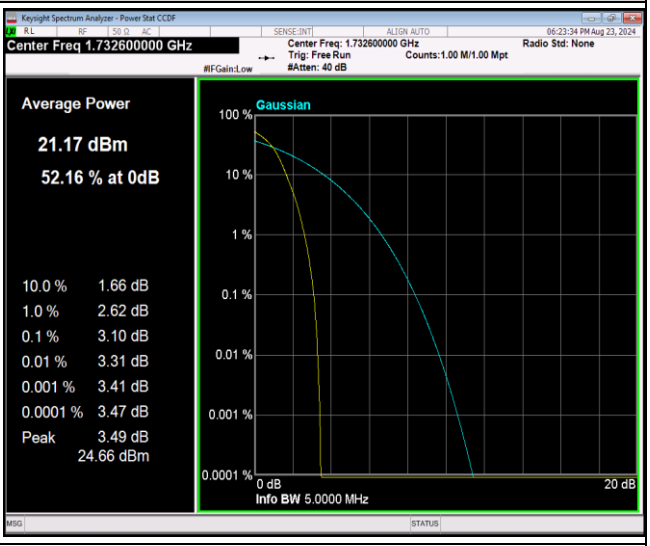
Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs(WCDMA)

Band2-9400



Band4-1413



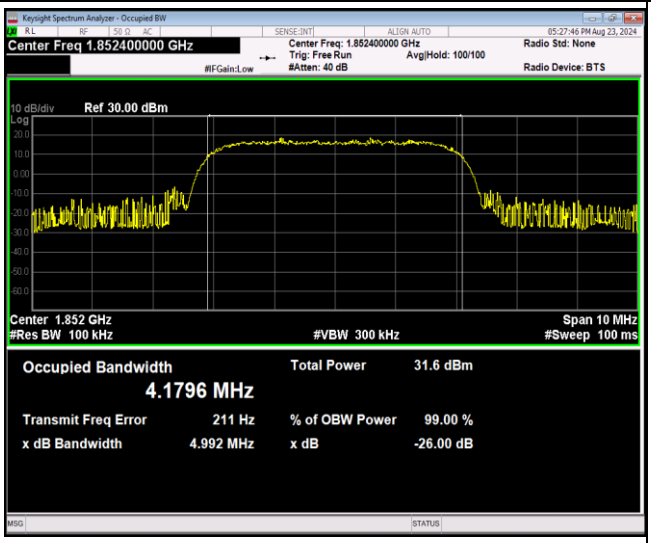
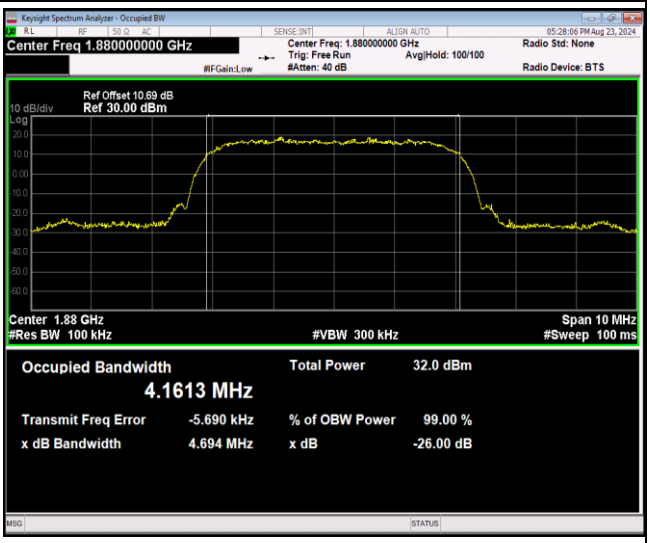
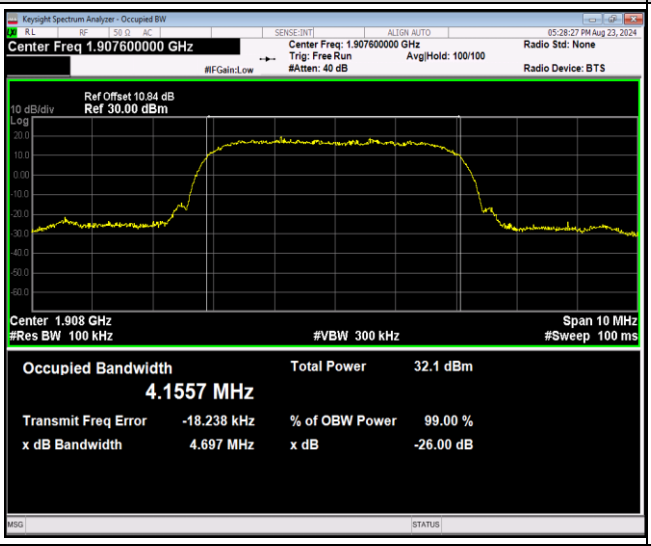
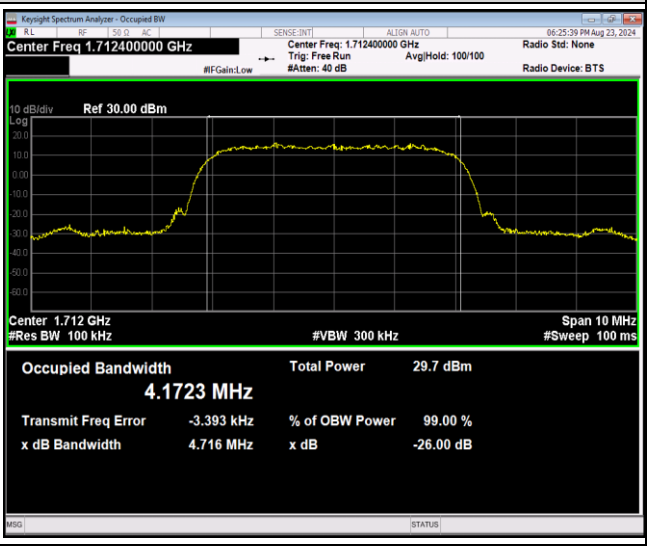
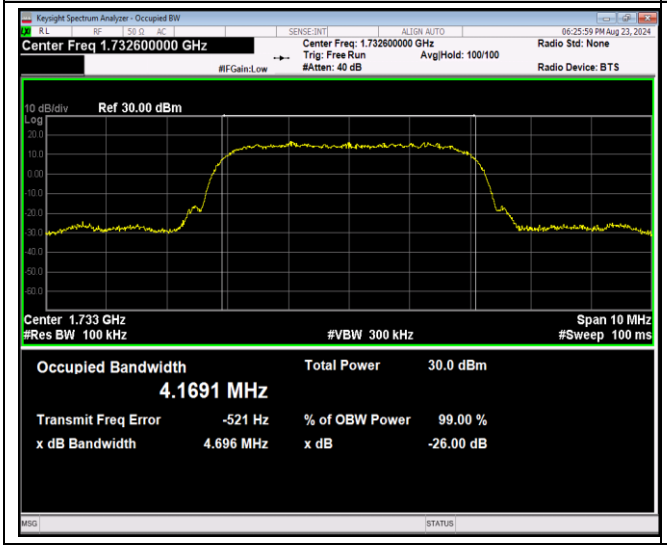
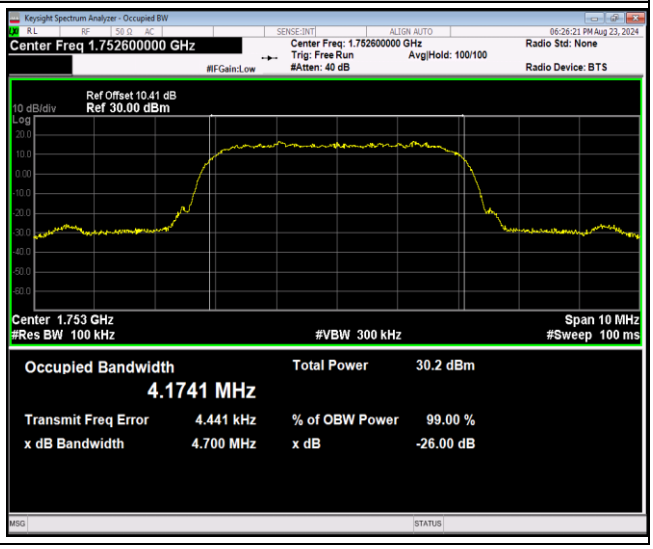
Band5-4183

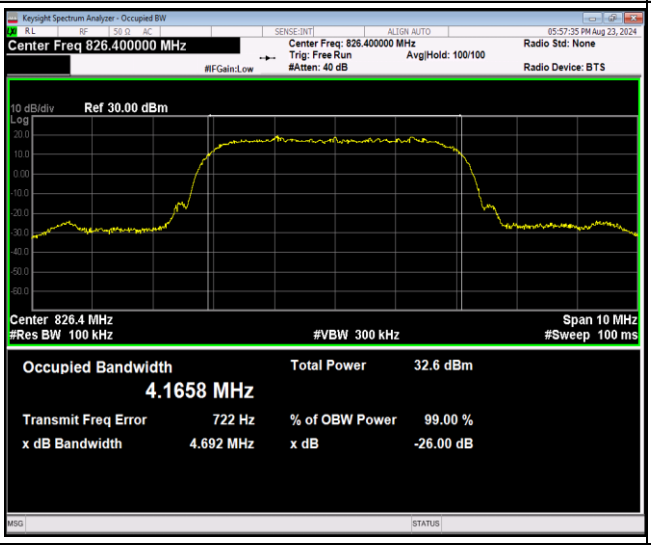
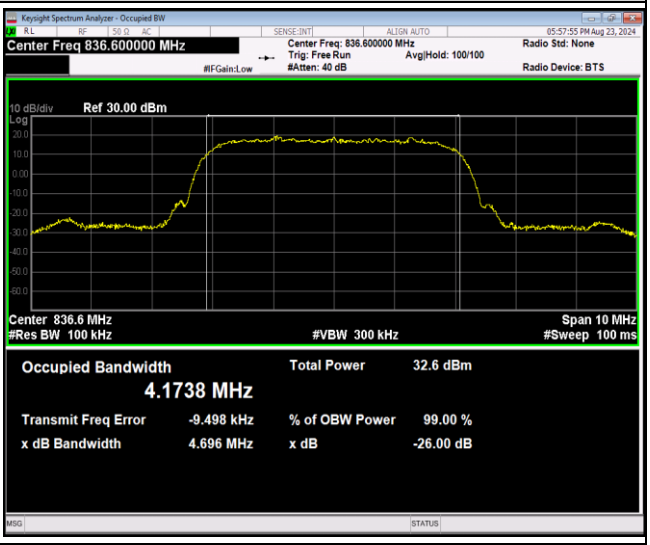
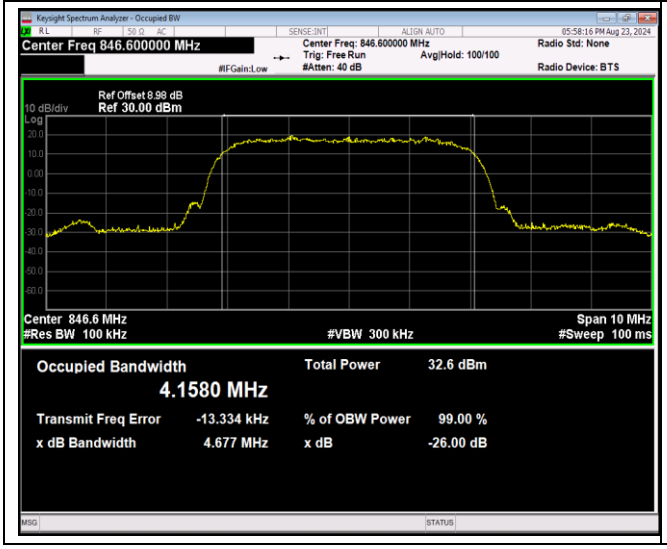
AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1796	4.992	---	PASS
Band2	9400	4.1613	4.694	---	PASS
Band2	9538	4.1557	4.697	---	PASS
Band4	1312	4.1723	4.716	---	PASS
Band4	1413	4.1691	4.696	---	PASS
Band4	1513	4.1741	4.700	---	PASS
Band5	4132	4.1658	4.692	---	PASS
Band5	4183	4.1738	4.696	---	PASS
Band5	4233	4.1580	4.677	---	PASS

Test Graphs(WCDMA)

Band2-9262	Band2-9400
	
Band2-9538	Band4-1312
	
Band4-1413	Band4-1513
	

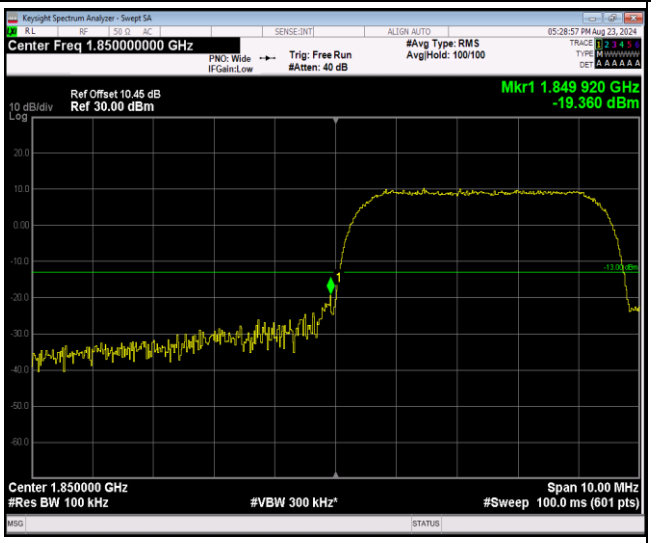
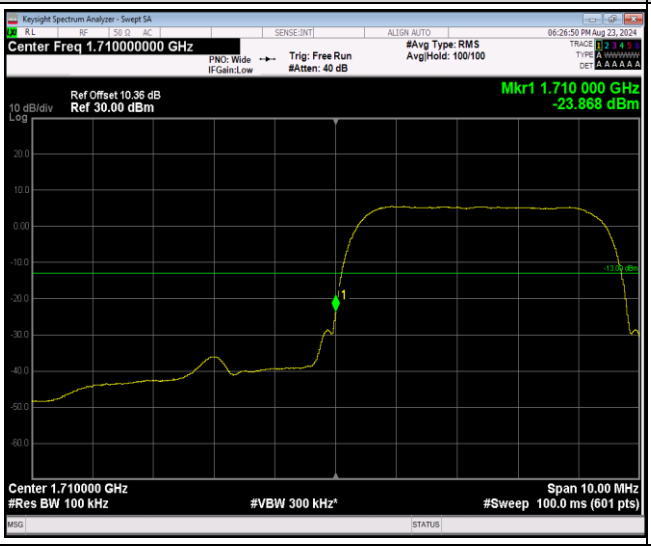
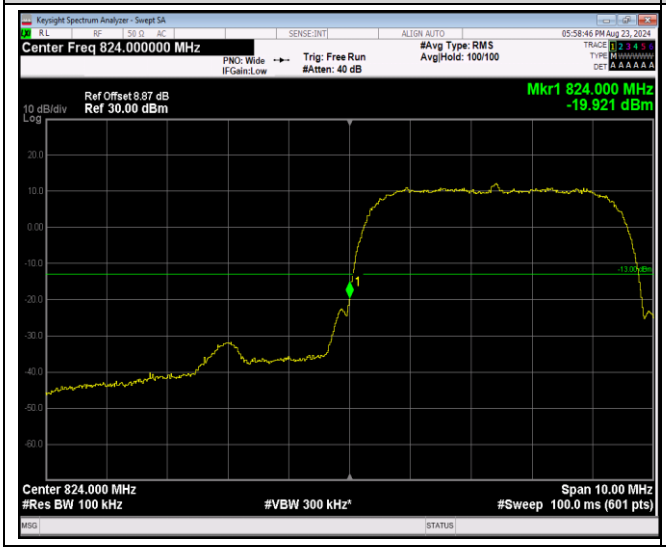
Band5-4132	Band5-4183
	
Band5-4233	
	

AppendixD:Band Edge

Test Result(WCDMA)

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.92	-19.36	-13	PASS
Band2	9538	1910.00	-20.63	-13	PASS
Band4	1312	1710.00	-23.87	-13	PASS
Band4	1513	1755.00	-23.61	-13	PASS
Band5	4132	824.00	-19.92	-13	PASS
Band5	4233	849.00	-20.63	-13	PASS

Test Graphs(WCDMA)

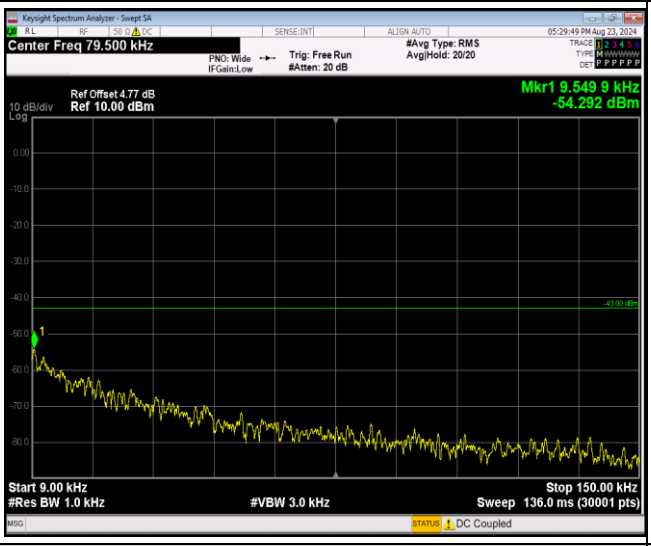
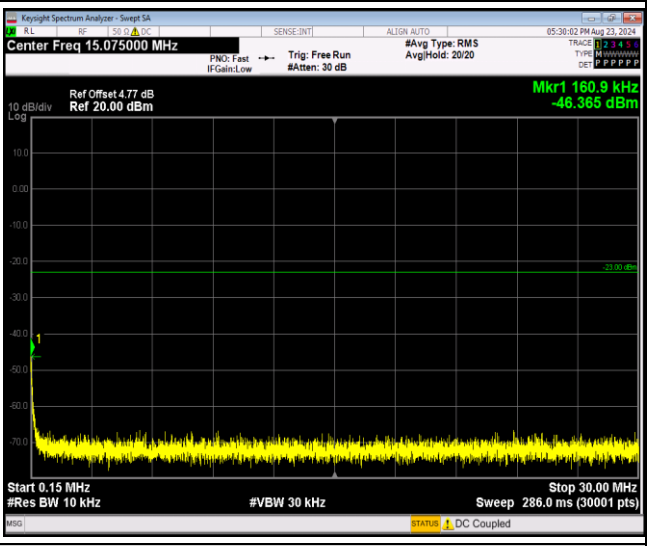
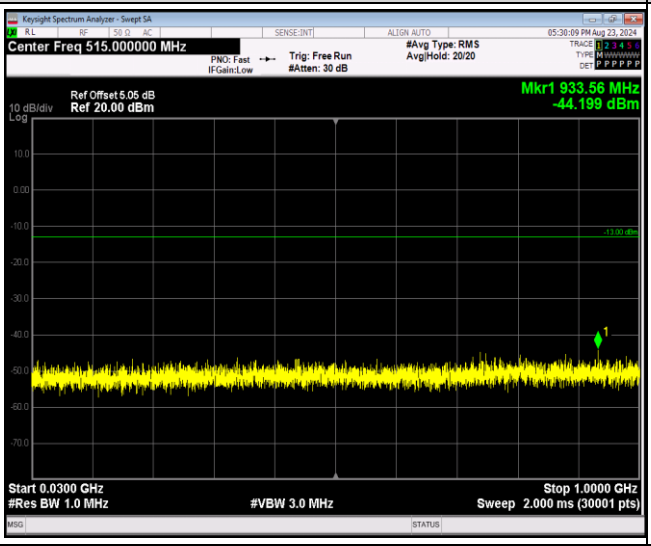
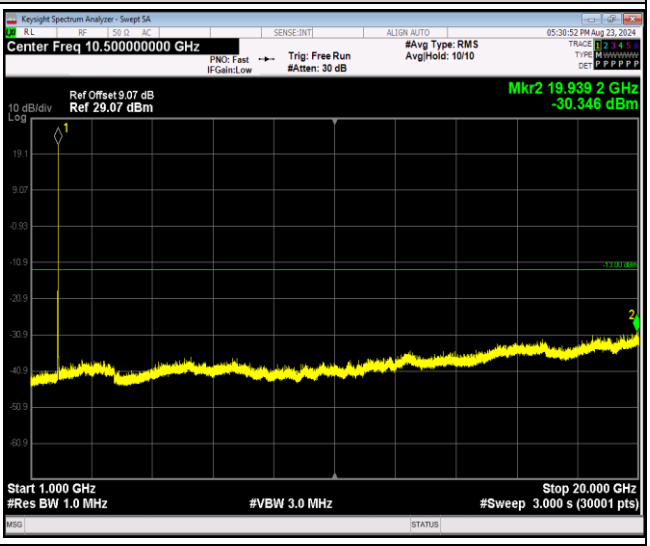
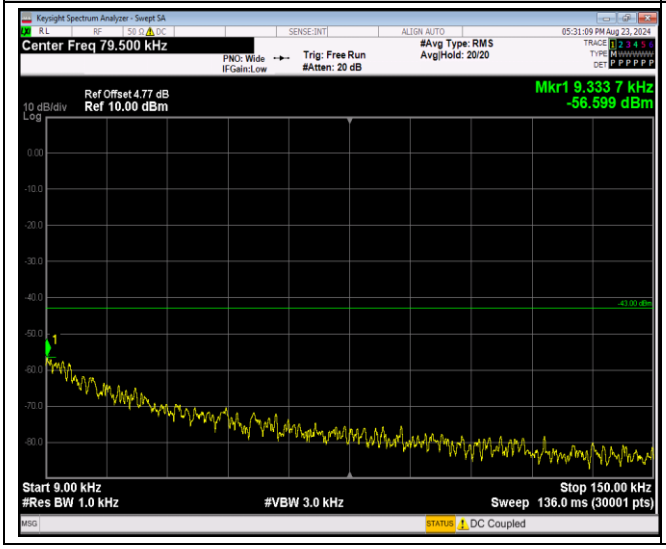
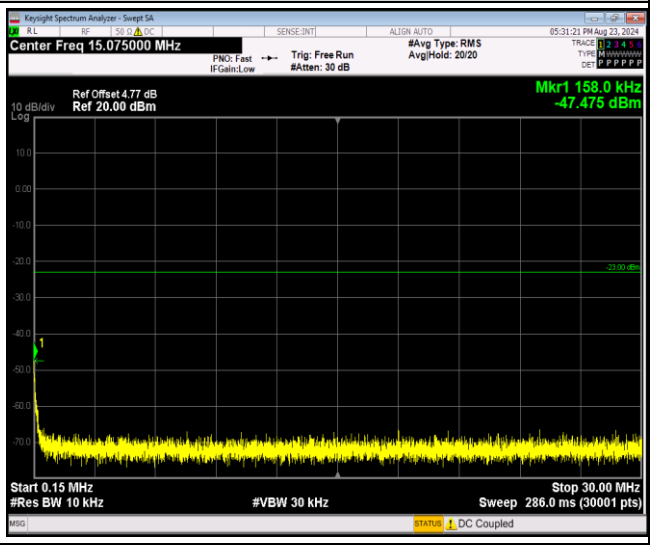
Band2-9262	Band2-9538
	
Band4-1312	**Band4-1513**
	
Band5-4132	**Band5-4233**
	

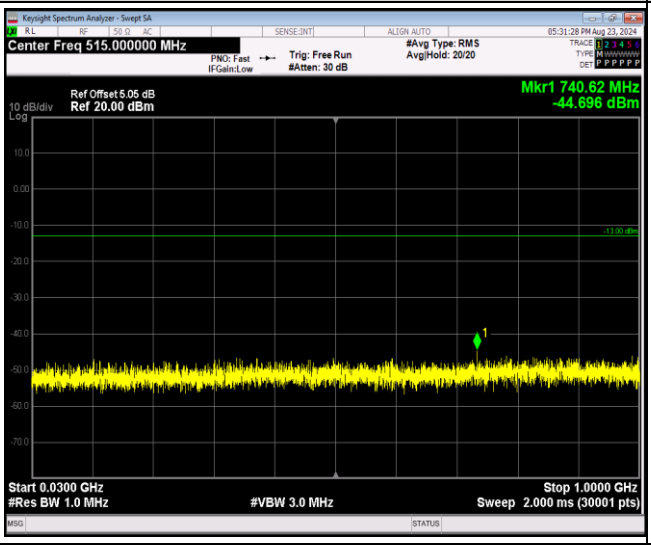
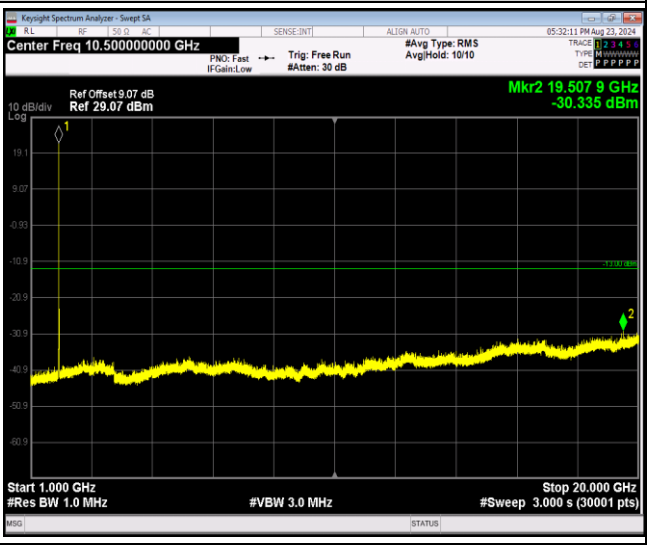
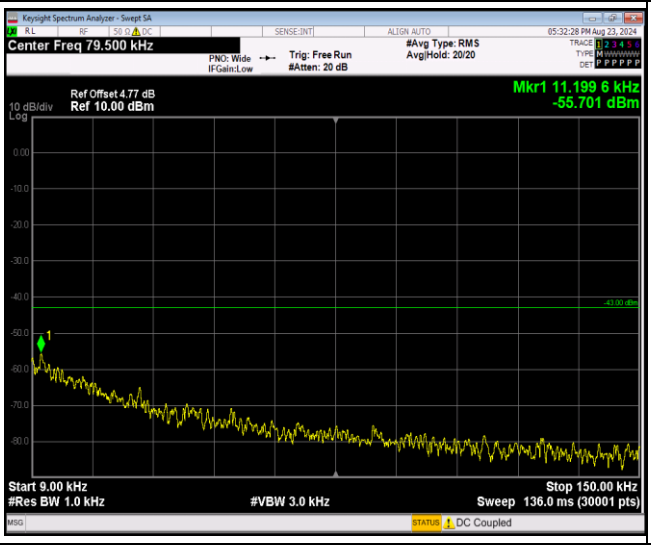
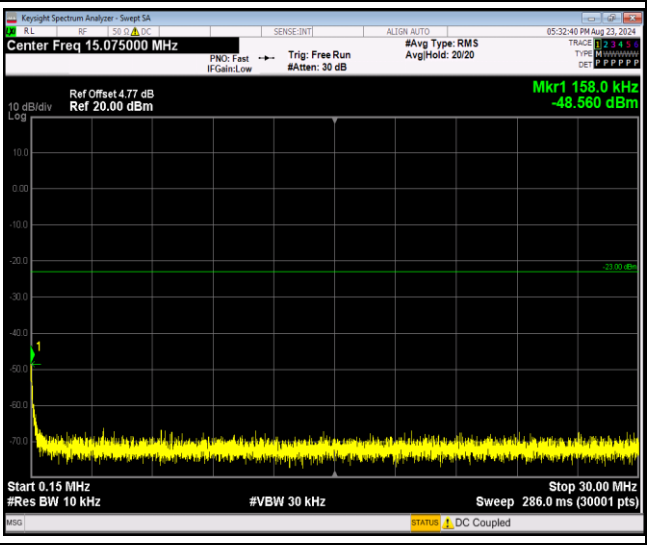
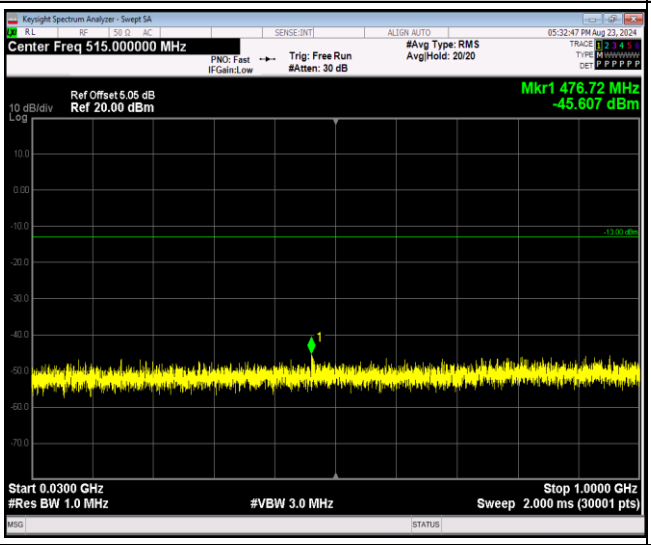
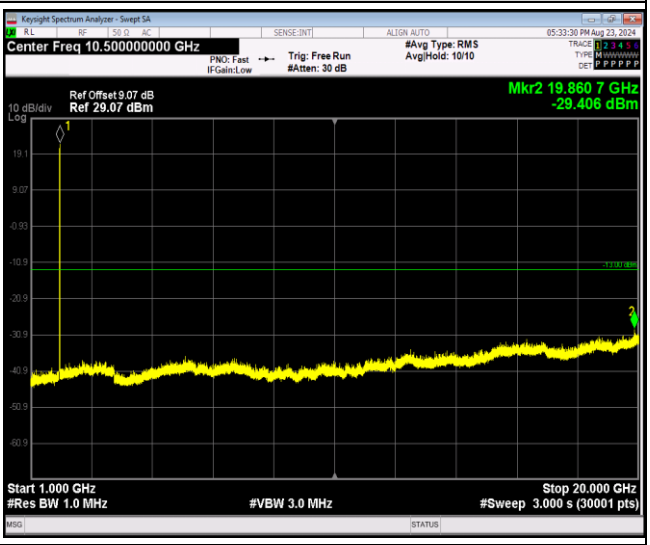
AppendixE:Conducted SpuriousEmission

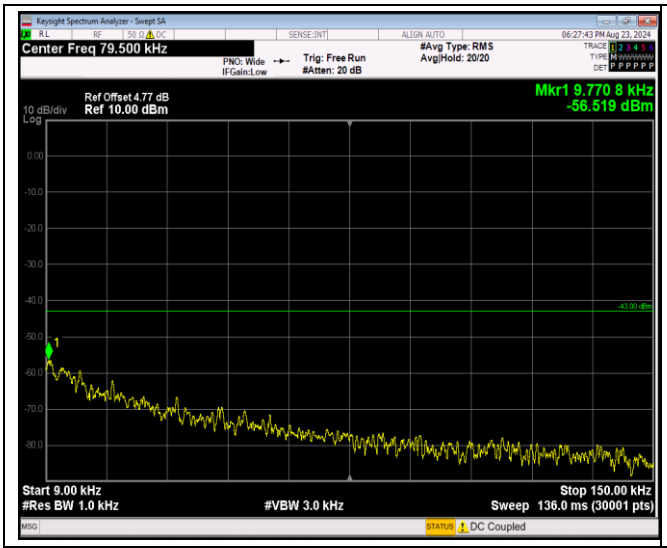
Test Result(WCDMA)

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.29	-43	PASS
Band2	9262	0.15~30MHz	0.16	-46.37	-23	PASS
Band2	9262	30~1000MHz	933.56	-44.2	-13	PASS
Band2	9262	1000~20000MHz	19939.2	-30.35	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.6	-43	PASS
Band2	9400	0.15~30MHz	0.16	-47.48	-23	PASS
Band2	9400	30~1000MHz	740.62	-44.7	-13	PASS
Band2	9400	1000~20000MHz	19507.9	-30.34	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-55.7	-43	PASS
Band2	9538	0.15~30MHz	0.16	-48.56	-23	PASS
Band2	9538	30~1000MHz	476.72	-45.61	-13	PASS
Band2	9538	1000~20000MHz	19860.67	-29.41	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.52	-43	PASS
Band4	1312	0.15~30MHz	0.15	-46.34	-23	PASS
Band4	1312	30~1000MHz	511.38	-44.04	-13	PASS
Band4	1312	1000~20000MHz	19914.5	-30.28	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-55.71	-43	PASS
Band4	1413	0.15~30MHz	0.15	-48.32	-23	PASS
Band4	1413	30~1000MHz	393.75	-45.54	-13	PASS
Band4	1413	1000~20000MHz	19945.53	-30.15	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-56.16	-43	PASS
Band4	1513	0.15~30MHz	0.15	-48.67	-23	PASS
Band4	1513	30~1000MHz	484.09	-45.29	-13	PASS
Band4	1513	1000~20000MHz	19919.57	-30.94	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-55.56	-33	PASS
Band5	4132	0.15~30MHz	0.15	-46.59	-13	PASS
Band5	4132	30~1000MHz	516.55	-55	-13	PASS
Band5	4132	1000~10000MHz	5920.3	-35.01	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-57.05	-33	PASS
Band5	4183	0.15~30MHz	0.15	-47.48	-13	PASS
Band5	4183	30~1000MHz	949.53	-54.67	-13	PASS
Band5	4183	1000~10000MHz	5314.3	-36.28	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-53.79	-33	PASS
Band5	4233	0.15~30MHz	0.16	-46.76	-13	PASS
Band5	4233	30~1000MHz	405.94	-54.38	-13	PASS
Band5	4233	1000~10000MHz	6009.7	-37.31	-13	PASS

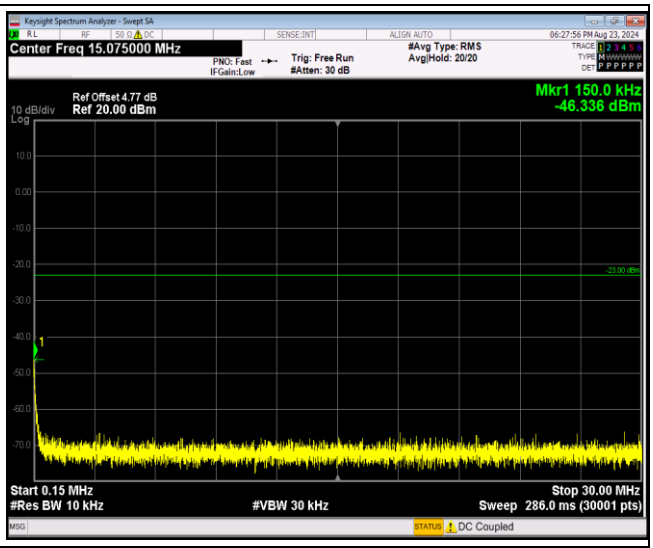
Test Graphs(WCDMA)

Band2-9262-0.009~0.15MHz	Band2-9262-0.15~30MHz
	
Band2-9262-30~1000MHz	**Band2-9262-1000~20000MHz**
	
Band2-9400-0.009~0.15MHz	**Band2-9400-0.15~30MHz**
	

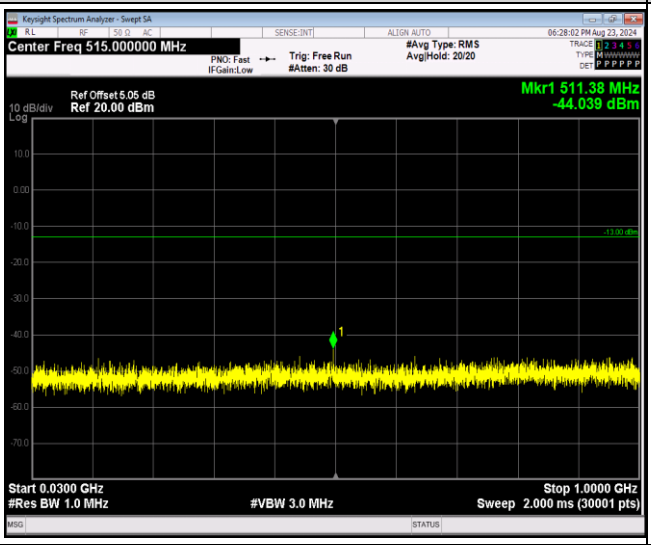
Band2-9400-30~1000MHz	Band2-9400-1000~20000MHz
	
Band2-9538-0.009~0.15MHz	Band2-9538-0.15~30MHz
	
Band2-9538-30~1000MHz	Band2-9538-1000~20000MHz
	
Band4-1312-0.009~0.15MHz	Band4-1312-0.15~30MHz



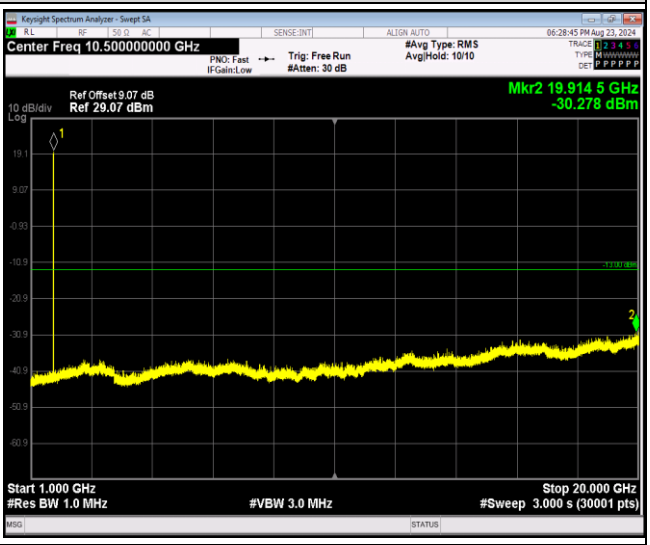
Band4-1312-30~1000MHz



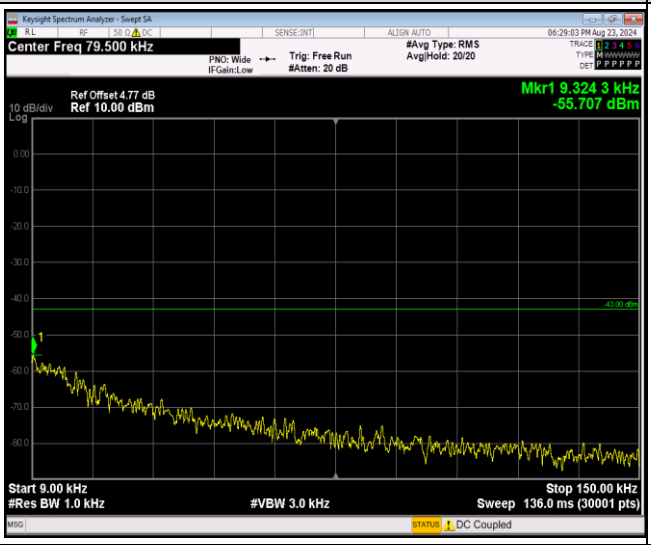
Band4-1312-1000~20000MHz



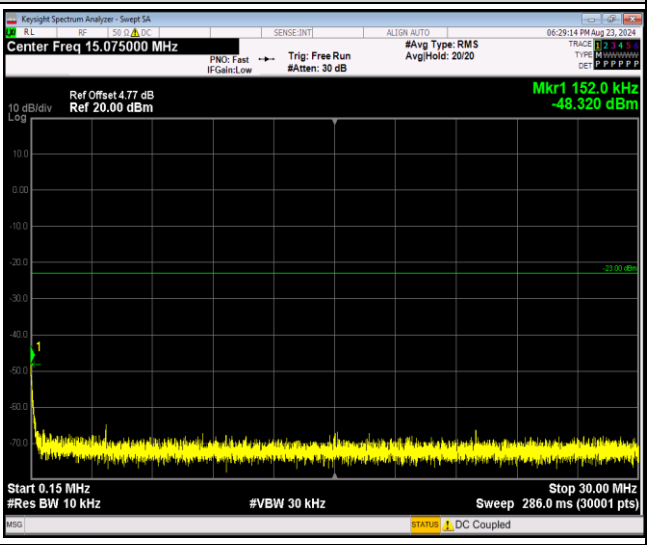
Band4-1413-0.009~0.15MHz



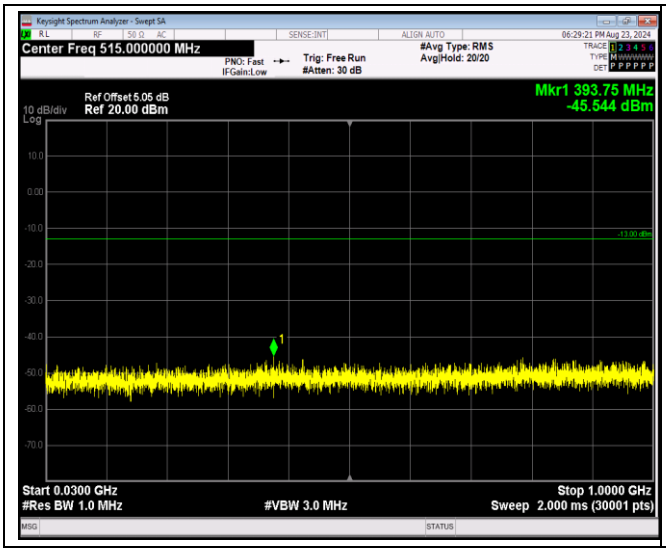
Band4-1413-0.15~30MHz



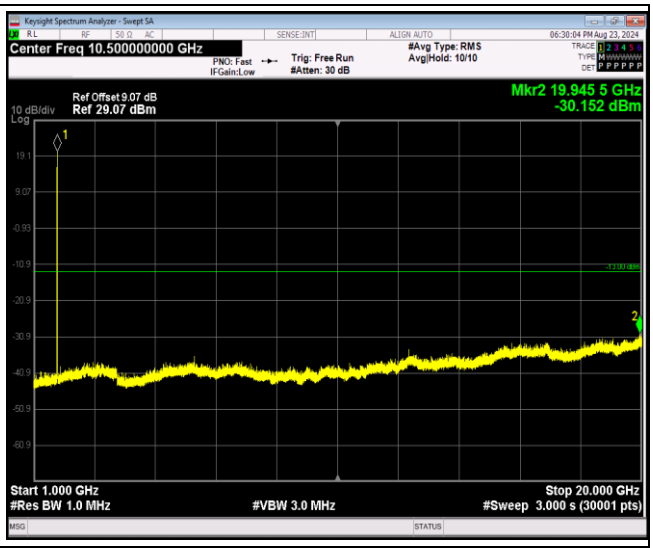
Band4-1413-30~1000MHz



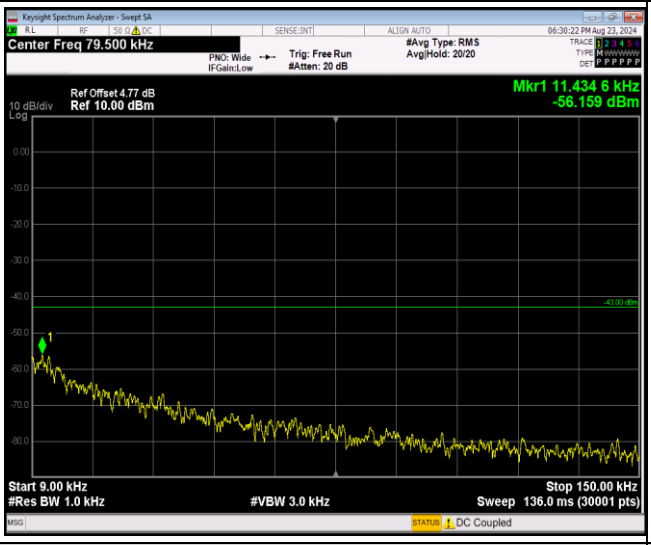
Band4-1413-1000~20000MHz



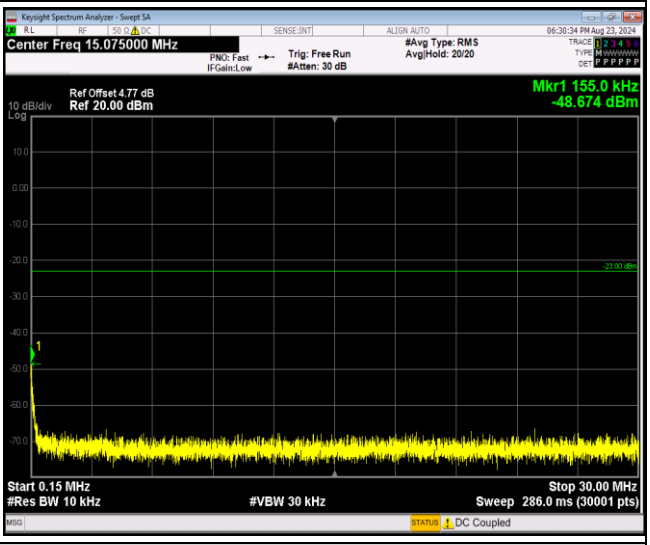
Band4-1513-0.009~0.15MHz



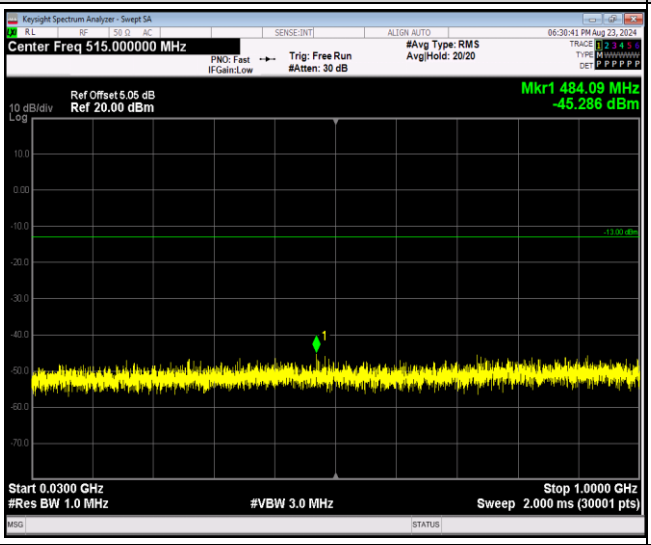
Band4-1513-0.15~30MHz



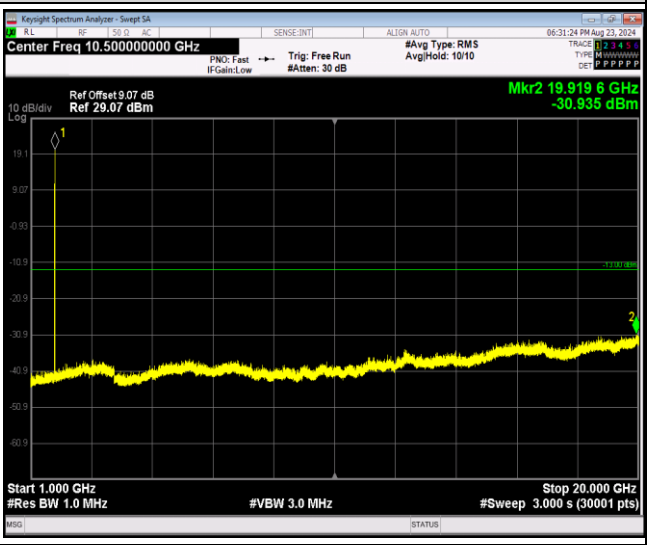
Band4-1513-30~1000MHz



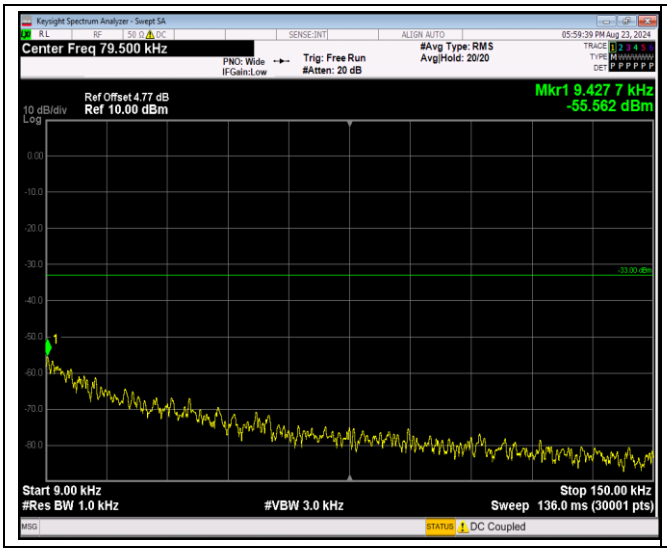
Band4-1513-1000~20000MHz



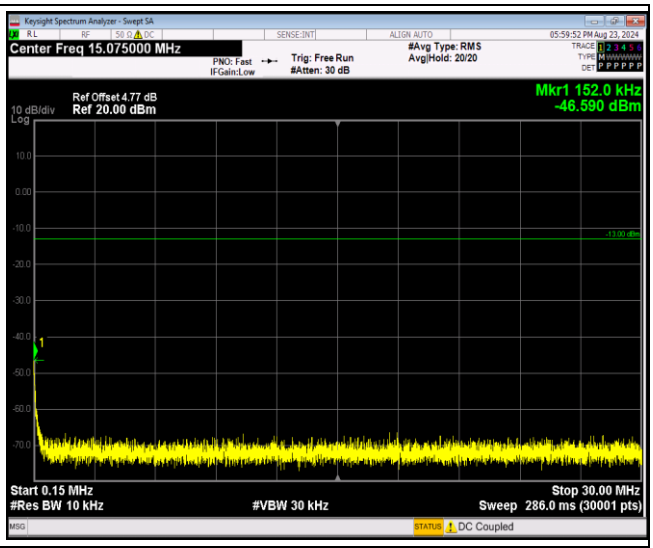
Band5-4132-0.009~0.15MHz



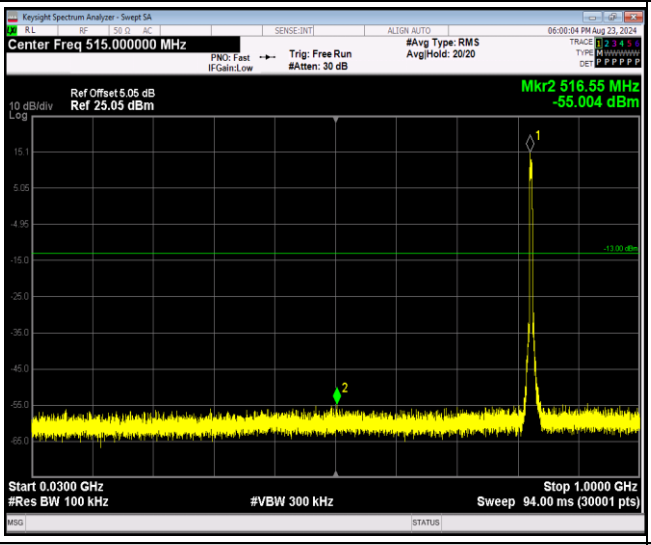
Band5-4132-0.15~30MHz



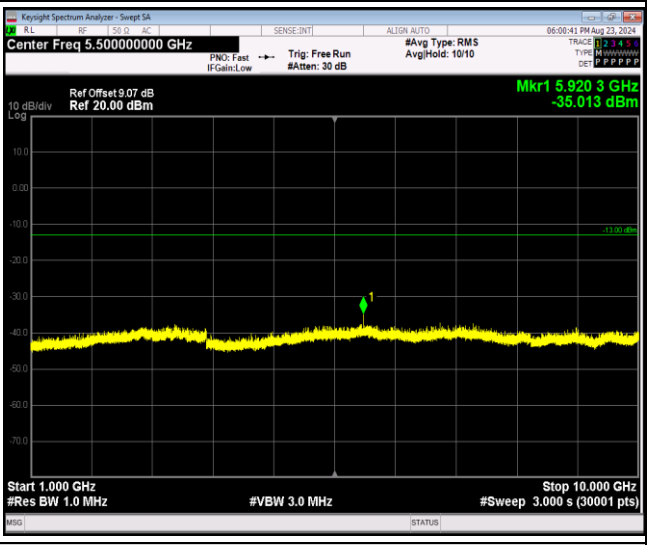
Band5-4132-30~1000MHz



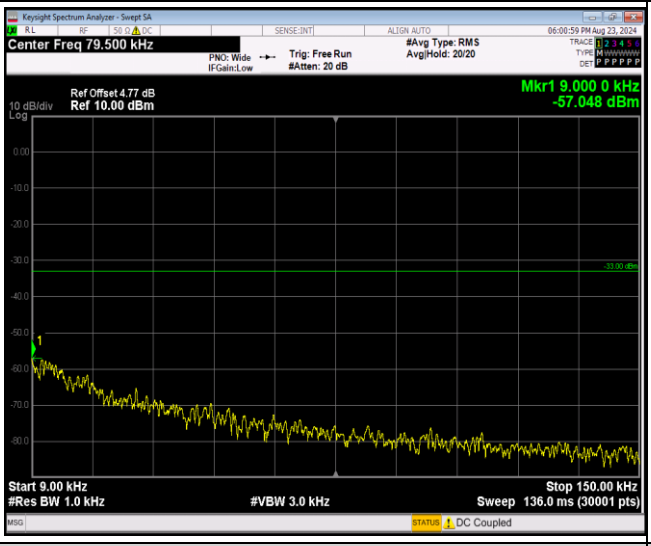
Band5-4132-1000~10000MHz



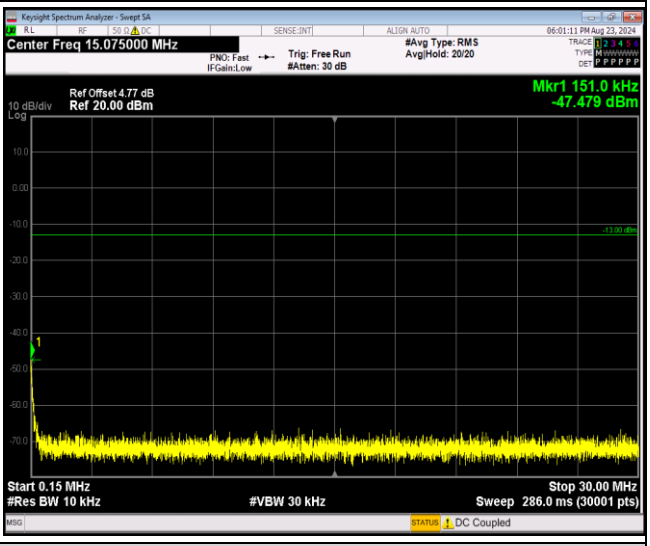
Band5-4183-0.009~0.15MHz



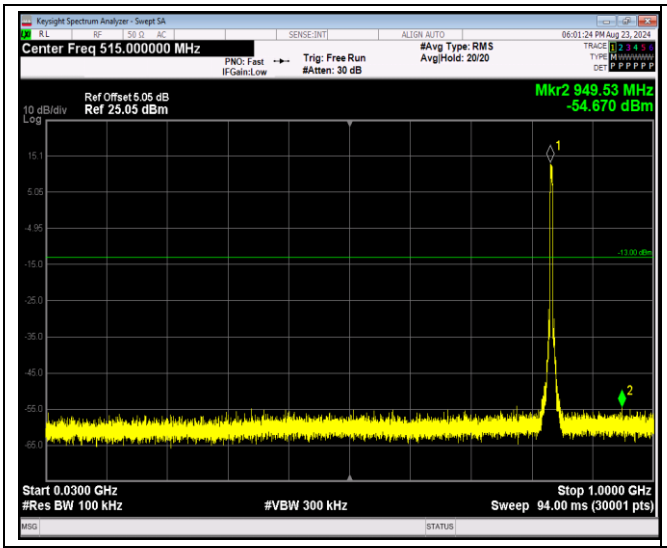
Band5-4183-0.15~30MHz



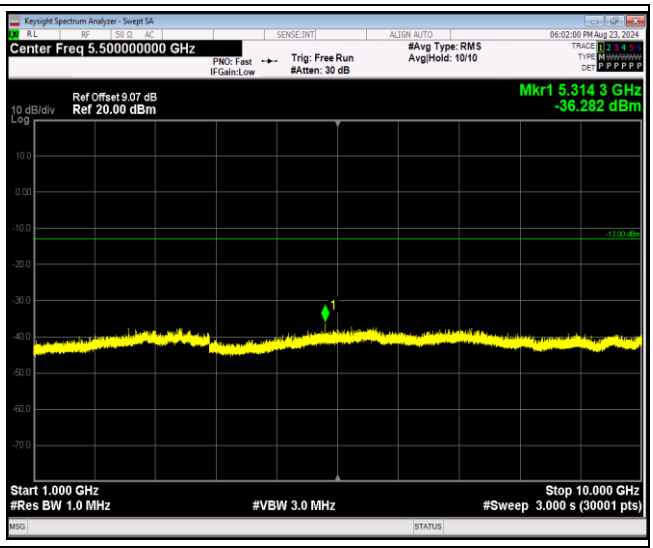
Band5-4183-30~1000MHz



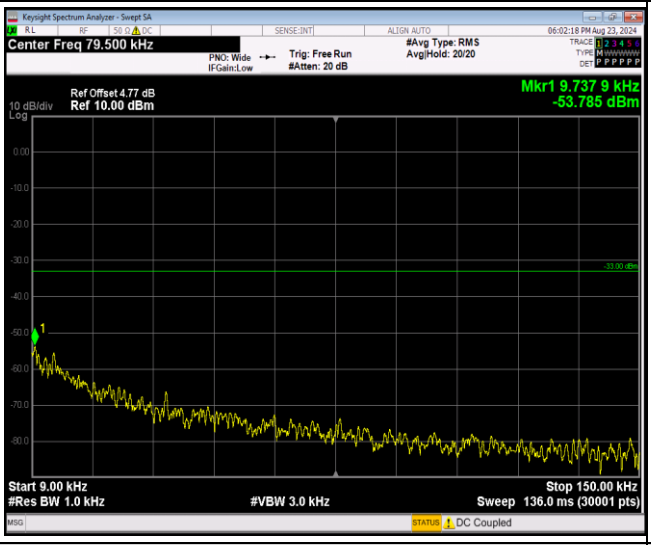
Band5-4183-1000~10000MHz



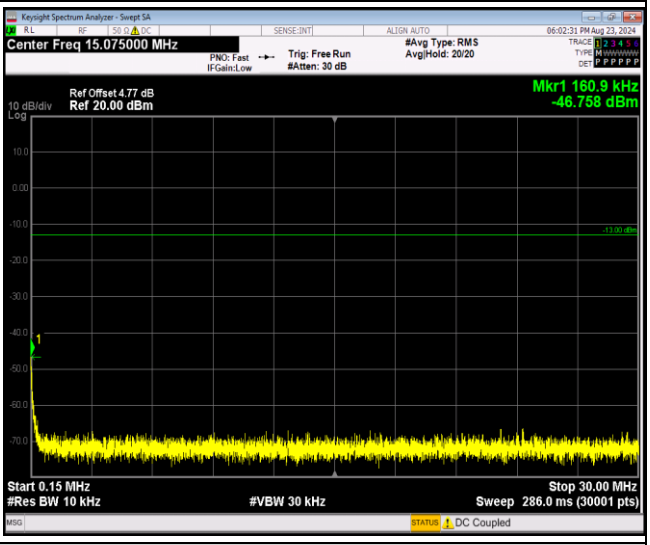
Band5-4233-0.009~0.15MHz



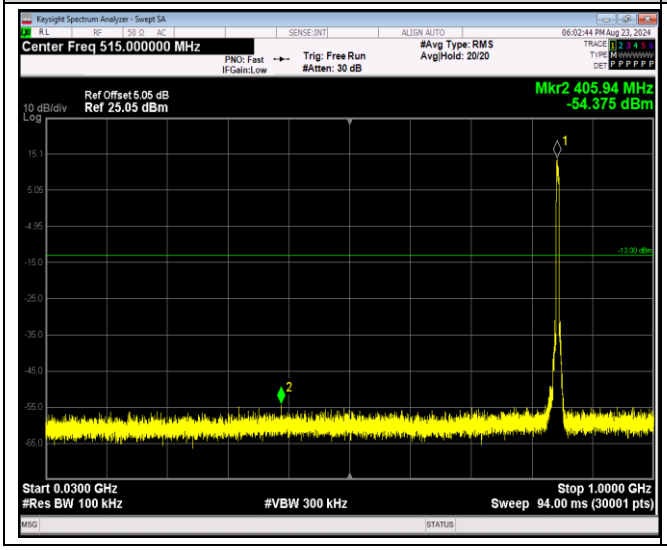
Band5-4233-0.15~30MHz



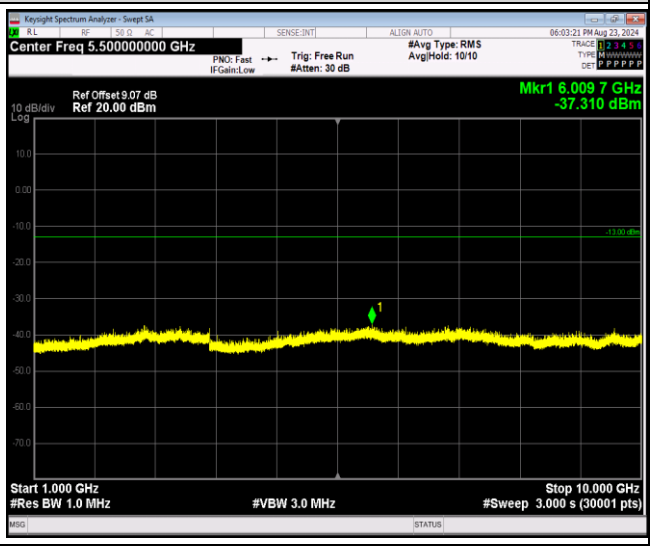
Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz



Band5-4233-0.009~0.15MHz



Band5-4233-0.15~30MHz

AppendixF:Frequency Stability

Test Result

Reference Frequency: WCDMA BAND V 12.2k RMC Middle channel=4183 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-12.46	-0.014894	±2.5	Pass
	-20	-4.76	-0.005690		
	-10	-7.10	-0.008487		
	0	-9.10	-0.010877		
	10	-10.66	-0.012742		
	20	-12.67	-0.015145		
	30	-7.16	-0.008558		
	40	-8.20	-0.009802		
	50	-10.22	-0.012216		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-6.17	-0.007375	±2.5	Pass
	3.85	-11.03	-0.013184		
	4.40	-9.57	-0.011439		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-11.62	-0.006707	Within authorized band for BAND IV	Pass
	-20	-15.83	-0.009137		
	-10	-13.69	-0.007901		
	0	-12.23	-0.007059		
	10	-11.09	-0.006401		
	20	-16.31	-0.009414		
	30	-13.40	-0.007734		
	40	-13.03	-0.007520		
	50	-12.17	-0.007024		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-13.14	-0.007584	Within authorized band for BAND IV	Pass
	3.85	-14.71	-0.008490		
	4.40	-14.87	-0.008582		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-11.34	-0.006032	Within authorized band for BAND II	Pass
	-20	-15.29	-0.008133		
	-10	-9.23	-0.004910		
	0	-11.23	-0.005973		
	10	-10.54	-0.005606		
	20	-12.40	-0.006596		
	30	-14.23	-0.007569		
	40	-15.23	-0.008101		
	50	-14.71	-0.007824		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-14.33	-0.007622	Within authorized band for BAND II	Pass
	3.85	-11.26	-0.005989		
	4.40	-10.81	-0.005750		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

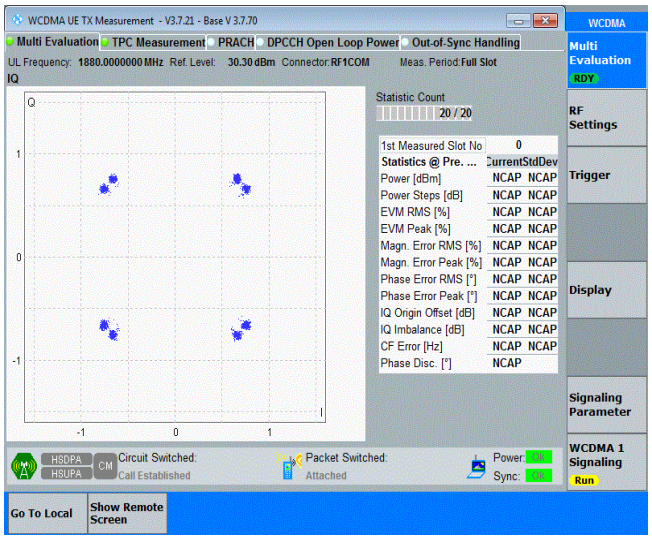
Test Result

Band	Channel	Result	Verdict
Band2	9400	PASS	PASS
Band4	1413	PASS	PASS
Band5	4183	PASS	PASS

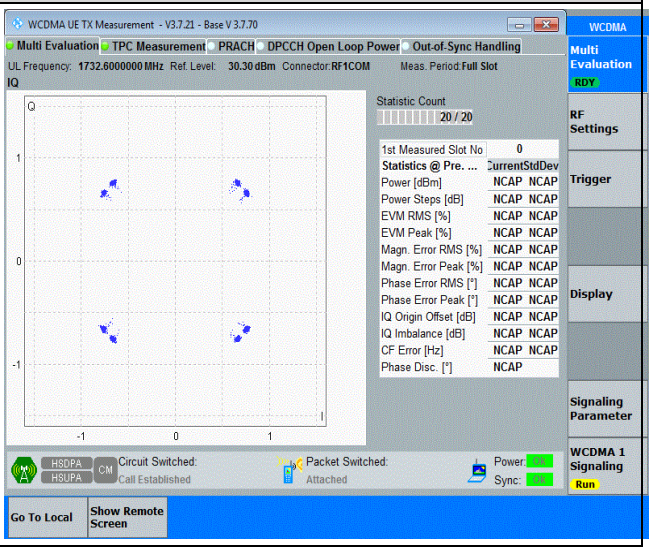
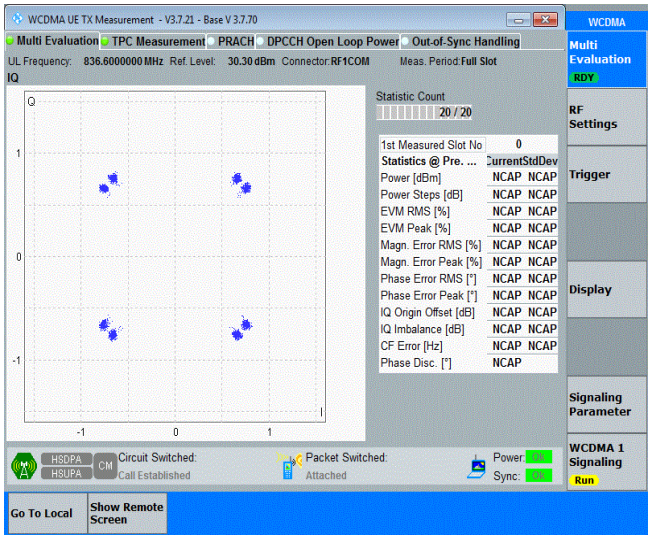
Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

Band2-9400



Band4-1413



Band5-4183