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	22.62	21.17	33.01	PASS
Band2	TestMode	9262	22.63	21.18	33.01	PASS
Band2	TestMode	9400	22.79	21.34	33.01	PASS
Band2	Voice	9400	22.82	21.37	33.01	PASS
Band2	TestMode	9538	22.78	21.33	33.01	PASS
Band2	Voice	9538	22.84	21.39	33.01	PASS
Band4	Voice	1312	22.52	22.35	30.00	PASS
Band4	TestMode	1312	22.48	22.31	30.00	PASS
Band4	Voice	1413	22.70	22.53	30.00	PASS
Band4	TestMode	1413	22.66	22.49	30.00	PASS
Band4	TestMode	1513	22.60	22.43	30.00	PASS
Band4	Voice	1513	22.62	22.45	30.00	PASS
Band5	Voice	4132	23.25	16.27	38.45	PASS
Band5	TestMode	4132	23.18	16.2	38.45	PASS
Band5	TestMode	4183	23.30	16.32	38.45	PASS
Band5	Voice	4183	23.23	16.25	38.45	PASS
Band5	Voice	4233	23.21	16.23	38.45	PASS
Band5	TestMode	4233	23.18	16.2	38.45	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	21.57	20.12	33.01	PASS
Band2	9262	2	21.04	19.59	33.01	PASS
Band2	9262	3	21.07	19.62	33.01	PASS
Band2	9262	4	21.05	19.6	33.01	PASS
Band2	9400	1	21.74	20.29	33.01	PASS
Band2	9400	2	21.22	19.77	33.01	PASS
Band2	9400	3	21.26	19.81	33.01	PASS
Band2	9400	4	21.26	19.81	33.01	PASS
Band2	9538	1	21.80	20.35	33.01	PASS
Band2	9538	2	21.23	19.78	33.01	PASS
Band2	9538	3	21.27	19.82	33.01	PASS
Band2	9538	4	21.29	19.84	33.01	PASS

Band4	1312	1	21.51	21.34	30.00	PASS
Band4	1312	2	21.05	20.88	30.00	PASS
Band4	1312	3	21.12	20.95	30.00	PASS
Band4	1312	4	20.98	20.81	30.00	PASS
Band4	1413	1	21.74	21.57	30.00	PASS
Band4	1413	2	21.24	21.07	30.00	PASS
Band4	1413	3	21.27	21.1	30.00	PASS
Band4	1413	4	21.15	20.98	30.00	PASS
Band4	1513	1	21.67	21.5	30.00	PASS
Band4	1513	2	21.14	20.97	30.00	PASS
Band4	1513	3	21.18	21.01	30.00	PASS
Band4	1513	4	21.07	20.9	30.00	PASS
Band5	4132	1	22.16	15.18	38.5	PASS
Band5	4132	2	21.63	14.65	38.5	PASS
Band5	4132	3	21.67	14.69	38.5	PASS
Band5	4132	4	21.64	14.66	38.5	PASS
Band5	4183	1	22.27	15.29	38.5	PASS
Band5	4183	2	21.74	14.76	38.5	PASS
Band5	4183	3	21.78	14.8	38.5	PASS
Band5	4183	4	21.73	14.75	38.5	PASS
Band5	4233	1	22.14	15.16	38.5	PASS
Band5	4233	2	21.62	14.64	38.5	PASS
Band5	4233	3	21.65	14.67	38.5	PASS
Band5	4233	4	21.58	14.6	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
Band2	9262	1	19.53	18.08	33.01	PASS
Band2	9262	2	20.02	18.57	33.01	PASS
Band2	9262	3	20.52	19.07	33.01	PASS
Band2	9262	4	19.55	18.1	33.01	PASS
Band2	9262	5	21.50	20.05	33.01	PASS
Band2	9400	1	19.67	18.22	33.01	PASS
Band2	9400	2	20.21	18.76	33.01	PASS
Band2	9400	3	20.72	19.27	33.01	PASS
Band2	9400	4	19.73	18.28	33.01	PASS
Band2	9400	5	21.68	20.23	33.01	PASS
Band2	9538	1	19.72	18.27	33.01	PASS
Band2	9538	2	20.24	18.79	33.01	PASS
Band2	9538	3	20.75	19.3	33.01	PASS

Band2	9538	4	19.74	18.29	33.01	PASS
Band2	9538	5	21.72	20.27	33.01	PASS
Band4	1312	1	19.50	19.33	30.00	PASS
Band4	1312	2	19.99	19.82	30.00	PASS
Band4	1312	3	20.46	20.29	30.00	PASS
Band4	1312	4	19.47	19.3	30.00	PASS
Band4	1312	5	21.47	21.3	30.00	PASS
Band4	1413	1	19.65	19.48	30.00	PASS
Band4	1413	2	20.13	19.96	30.00	PASS
Band4	1413	3	20.62	20.45	30.00	PASS
Band4	1413	4	19.63	19.46	30.00	PASS
Band4	1413	5	21.62	21.45	30.00	PASS
Band4	1513	1	19.56	19.39	30.00	PASS
Band4	1513	2	20.04	19.87	30.00	PASS
Band4	1513	3	20.53	20.36	30.00	PASS
Band4	1513	4	19.56	19.39	30.00	PASS
Band4	1513	5	21.54	21.37	30.00	PASS
Band5	4132	1	20.11	13.13	38.5	PASS
Band5	4132	2	20.57	13.59	38.5	PASS
Band5	4132	3	21.10	14.12	38.5	PASS
Band5	4132	4	20.07	13.09	38.5	PASS
Band5	4132	5	22.07	15.09	38.5	PASS
Band5	4183	1	20.16	13.18	38.5	PASS
Band5	4183	2	20.66	13.68	38.5	PASS
Band5	4183	3	21.17	14.19	38.5	PASS
Band5	4183	4	20.16	13.18	38.5	PASS
Band5	4183	5	22.16	15.18	38.5	PASS
Band5	4233	1	20.03	13.05	38.5	PASS
Band5	4233	2	20.54	13.56	38.5	PASS
Band5	4233	3	21.04	14.06	38.5	PASS
Band5	4233	4	20.04	13.06	38.5	PASS
Band5	4233	5	21.99	15.01	38.5	PASS

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

AppendixB:Peak-to-Average Ratio

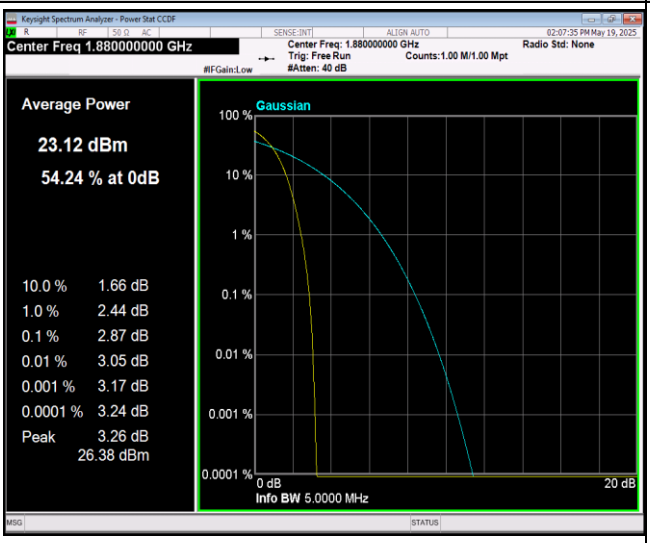
Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9400	2.87	13	PASS
Band4	1413	2.71	13	PASS
Band5	4183	3.15	13	PASS

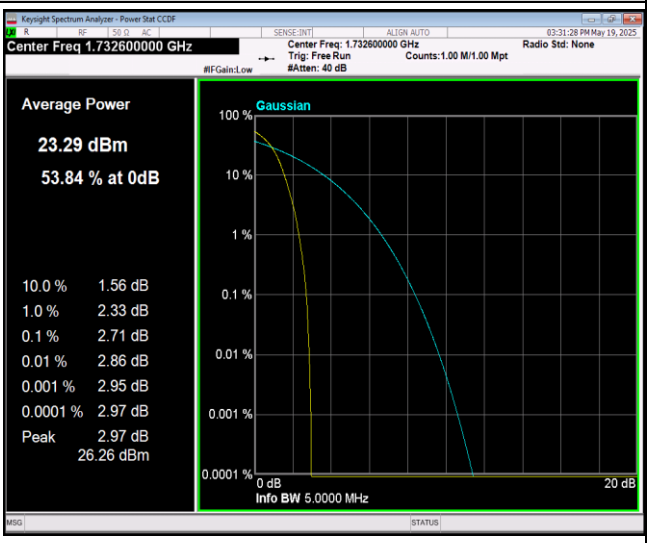
Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs(WCDMA)

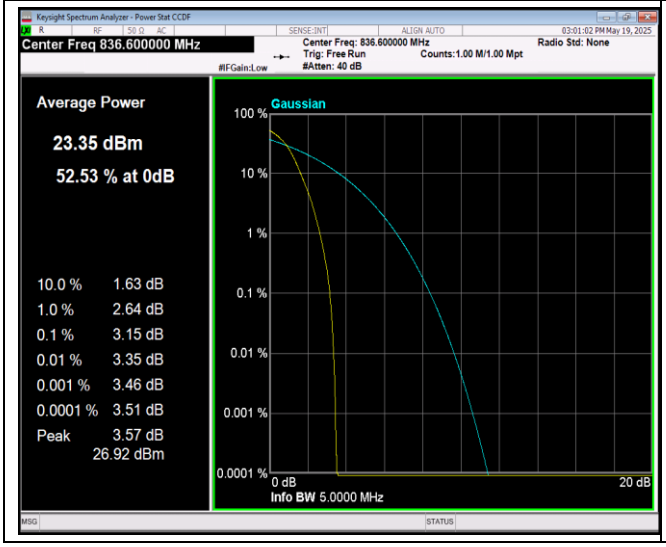
Band2-9400



Band4-1413



Band5-4183



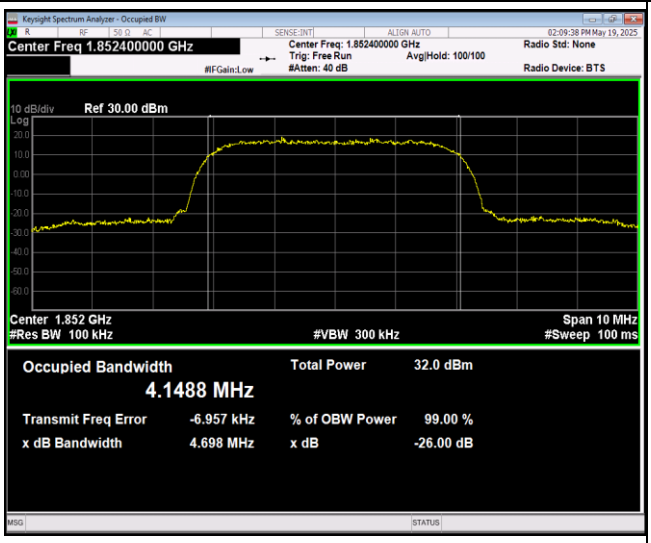
AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result(WCDMA)

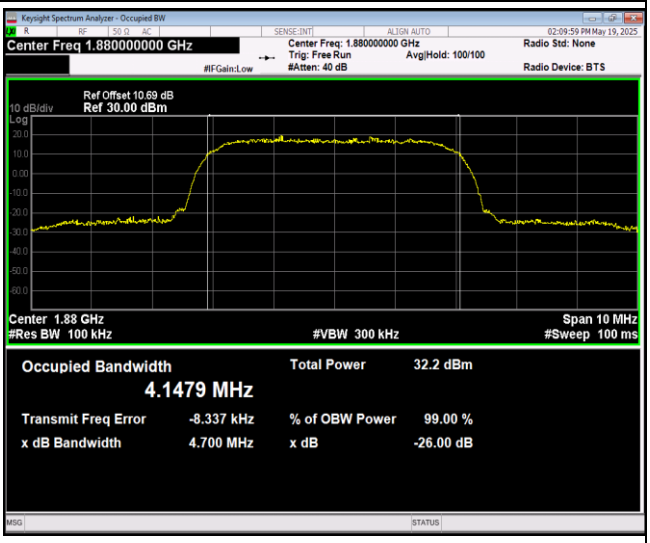
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1488	4.698	---	PASS
Band2	9400	4.1479	4.700	---	PASS
Band2	9538	4.1534	4.711	---	PASS
Band4	1312	4.1740	4.744	---	PASS
Band4	1413	4.1659	4.715	---	PASS
Band4	1513	4.1643	4.734	---	PASS
Band5	4132	4.1517	4.685	---	PASS
Band5	4183	4.1515	4.691	---	PASS
Band5	4233	4.1394	4.678	---	PASS

Test Graphs(WCDMA)

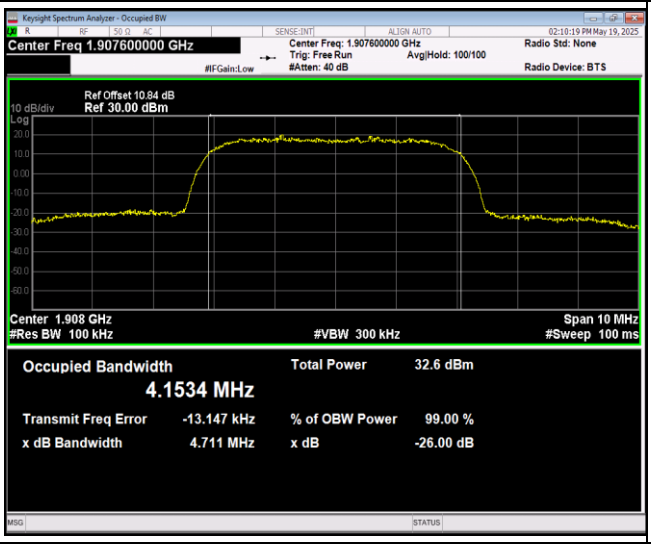
Band2-9262



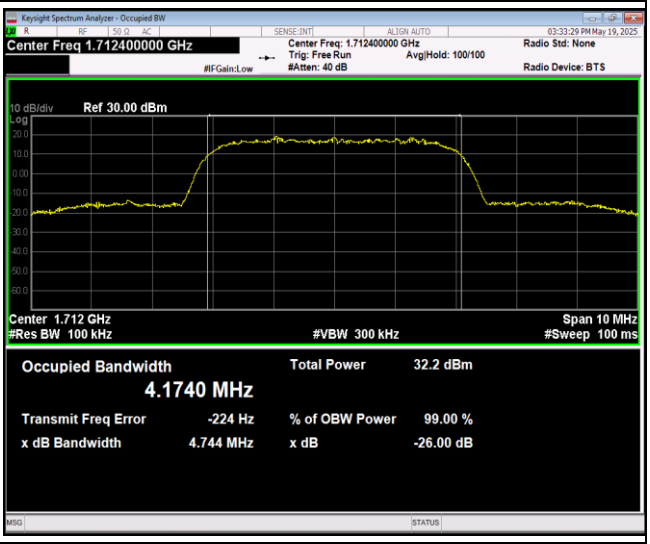
Band2-9400



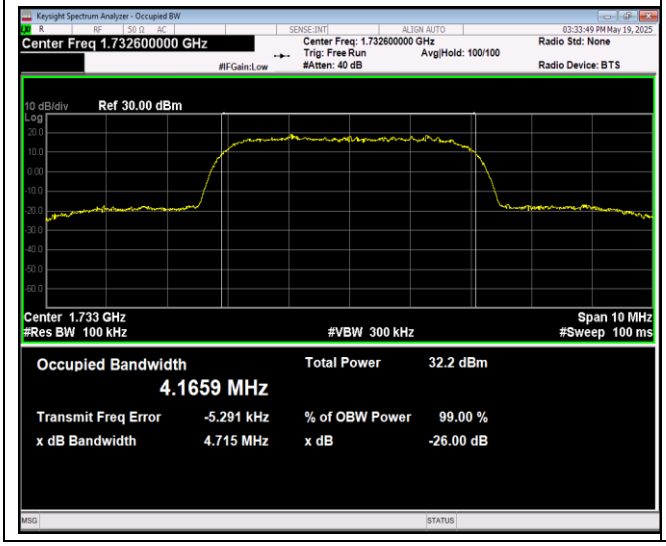
Band2-9538



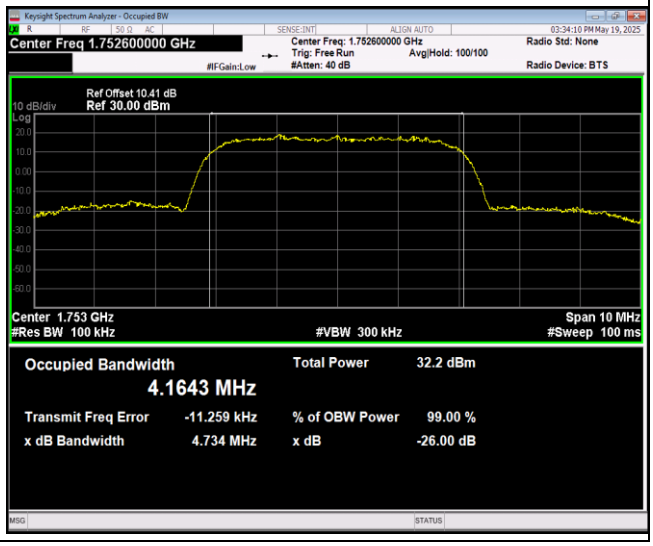
Band4-1312

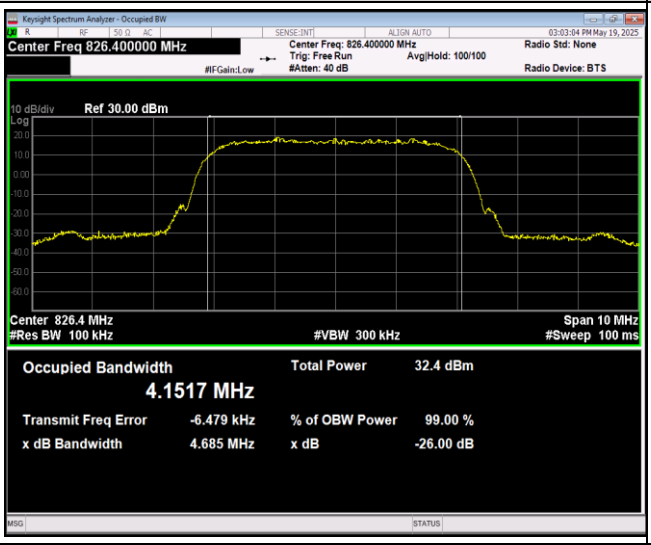
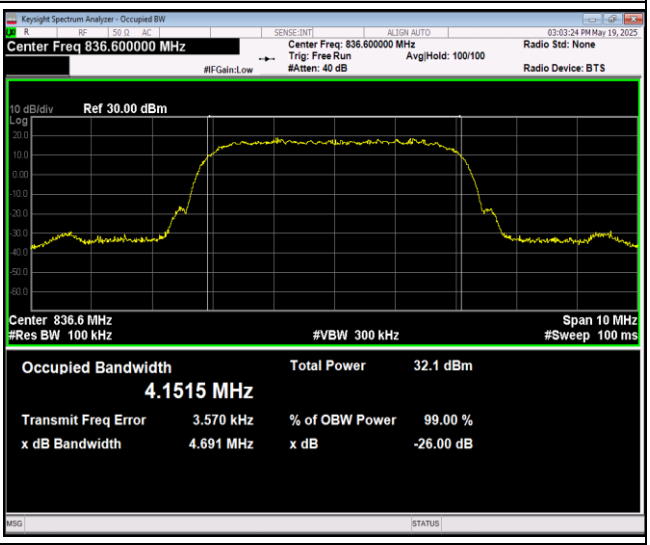
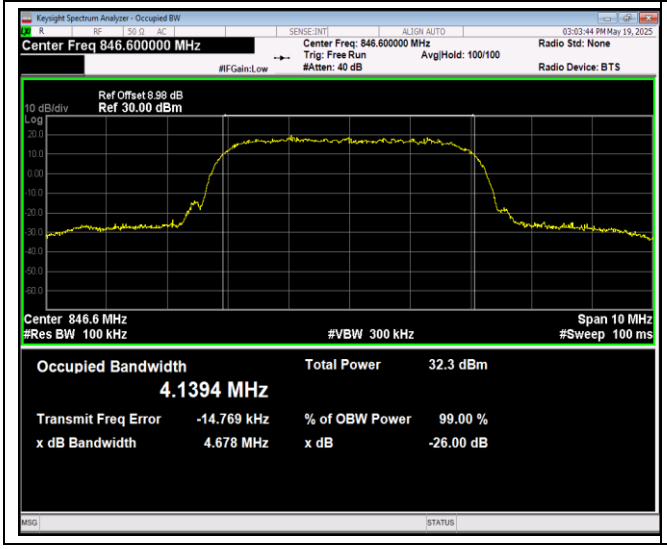


Band4-1413



Band4-1513



Band5-4132	Band5-4183
	
Band5-4233	
	

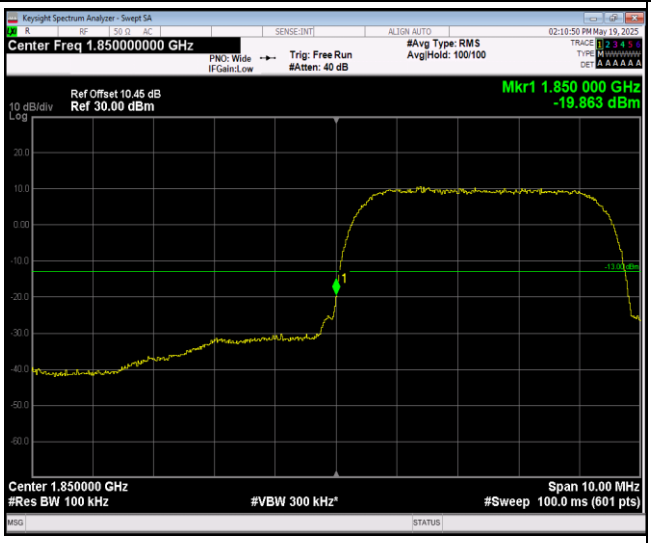
AppendixD:Band Edge

Test Result(WCDMA)

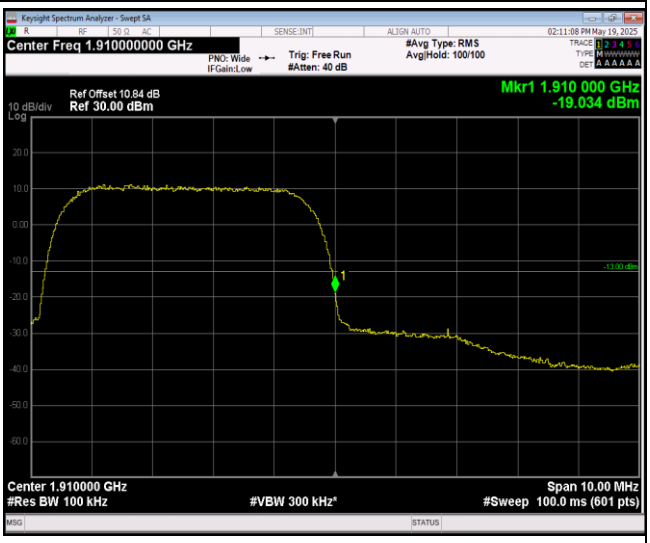
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-19.86	-13	PASS
Band2	9538	1910.00	-19.03	-13	PASS
Band4	1312	1710.00	-17.67	-13	PASS
Band4	1513	1755.00	-19.48	-13	PASS
Band5	4132	824.00	-19.66	-13	PASS
Band5	4233	849.00	-21.08	-13	PASS

Test Graphs(WCDMA)

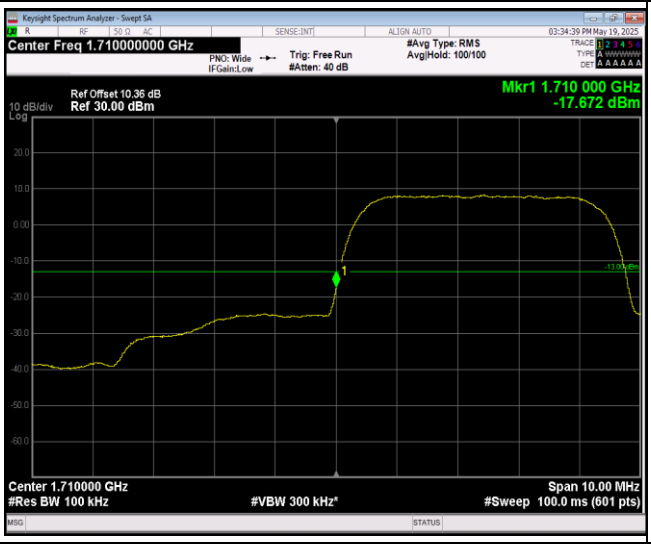
Band2-9262



Band2-9538

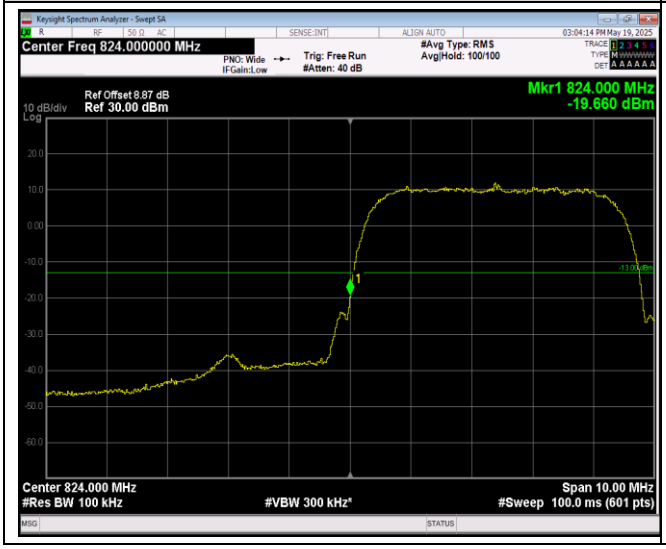


Band4-1312



Band4-1513

Band5-4132



Band5-4233

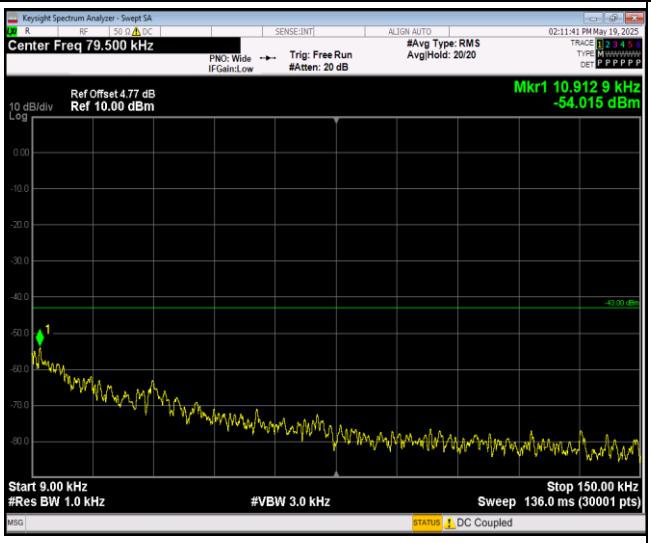
AppendixE:Conducted SpuriousEmission

Test Result(WCDMA)

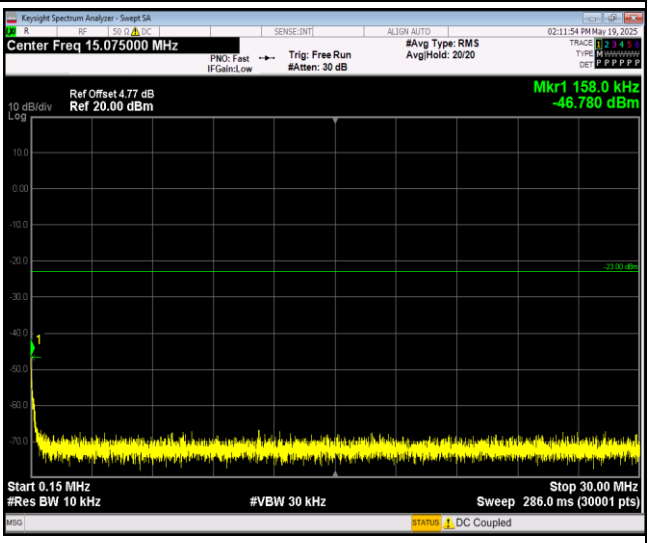
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-54.02	-43	PASS
Band2	9262	0.15~30MHz	0.16	-46.78	-23	PASS
Band2	9262	30~1000MHz	785.53	-45.42	-13	PASS
Band2	9262	1000~20000MHz	19504.73	-30.87	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-57.23	-43	PASS
Band2	9400	0.15~30MHz	0.17	-46.85	-23	PASS
Band2	9400	30~1000MHz	922.34	-44.59	-13	PASS
Band2	9400	1000~20000MHz	19839.77	-30.14	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-54.28	-43	PASS
Band2	9538	0.15~30MHz	0.15	-46.06	-23	PASS
Band2	9538	30~1000MHz	819.13	-45.47	-13	PASS
Band2	9538	1000~20000MHz	19969.6	-30.35	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-56.49	-43	PASS
Band4	1312	0.15~30MHz	0.16	-47.11	-23	PASS
Band4	1312	30~1000MHz	295.17	-46.07	-13	PASS
Band4	1312	1000~20000MHz	19937.93	-30.27	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-56.24	-43	PASS
Band4	1413	0.15~30MHz	0.15	-45.4	-23	PASS
Band4	1413	30~1000MHz	943.9	-45.52	-13	PASS
Band4	1413	1000~20000MHz	19823.3	-30.48	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-54.69	-43	PASS
Band4	1513	0.15~30MHz	0.16	-46.33	-23	PASS
Band4	1513	30~1000MHz	717.12	-45.2	-13	PASS
Band4	1513	1000~20000MHz	19984.8	-30.53	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-54.68	-33	PASS
Band5	4132	0.15~30MHz	0.15	-45.45	-13	PASS
Band5	4132	30~1000MHz	575.69	-54.95	-13	PASS
Band5	4132	1000~10000MHz	7643.5	-36.77	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-56.13	-33	PASS
Band5	4183	0.15~30MHz	0.15	-46.29	-13	PASS
Band5	4183	30~1000MHz	963.63	-54.18	-13	PASS
Band5	4183	1000~10000MHz	7296.4	-36.79	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-56.54	-33	PASS
Band5	4233	0.15~30MHz	0.15	-45.82	-13	PASS
Band5	4233	30~1000MHz	423.3	-38.93	-13	PASS
Band5	4233	1000~10000MHz	7289.5	-37.02	-13	PASS

Test Graphs(WCDMA)

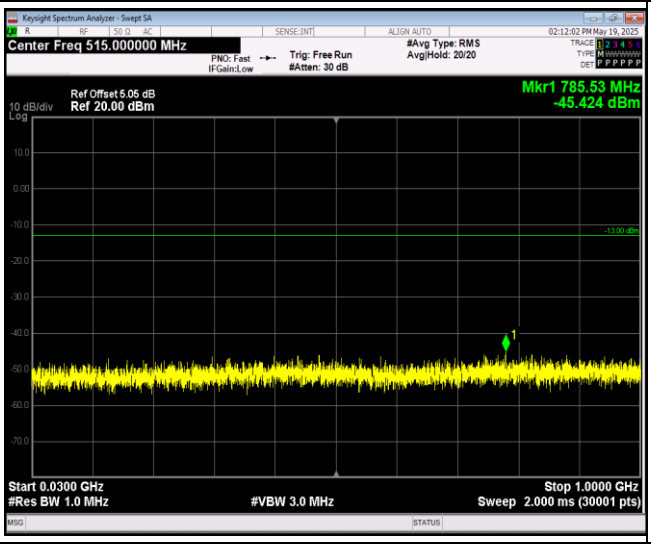
Band2-9262-0.009~0.15MHz



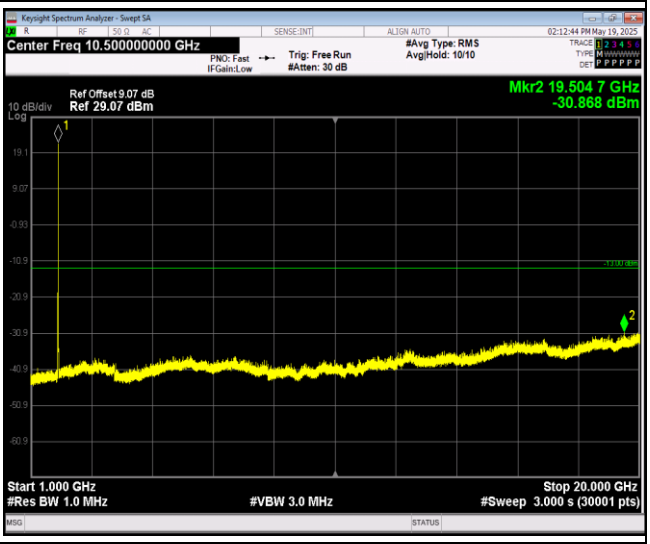
Band2-9262-0.15~30MHz



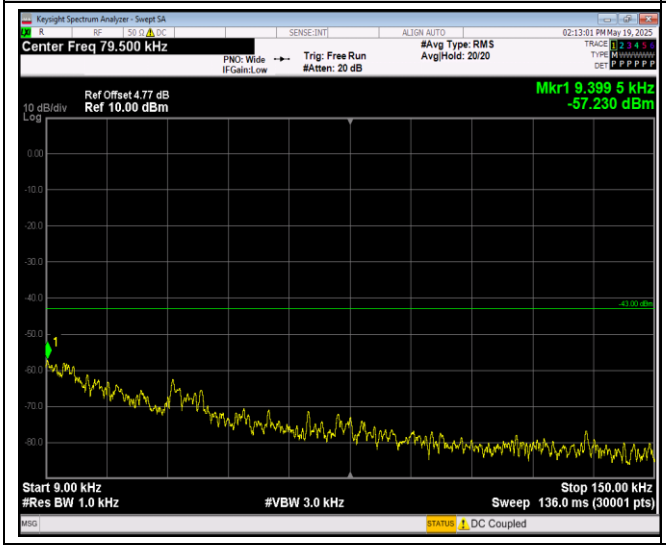
Band2-9262-30~1000MHz



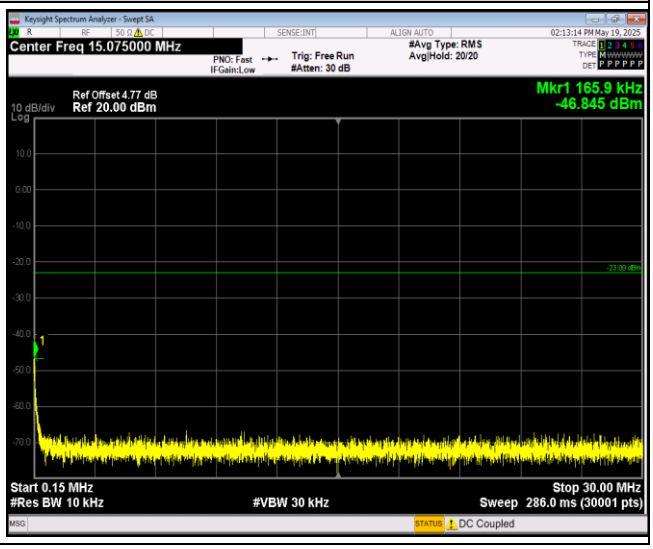
Band2-9262-1000~20000MHz



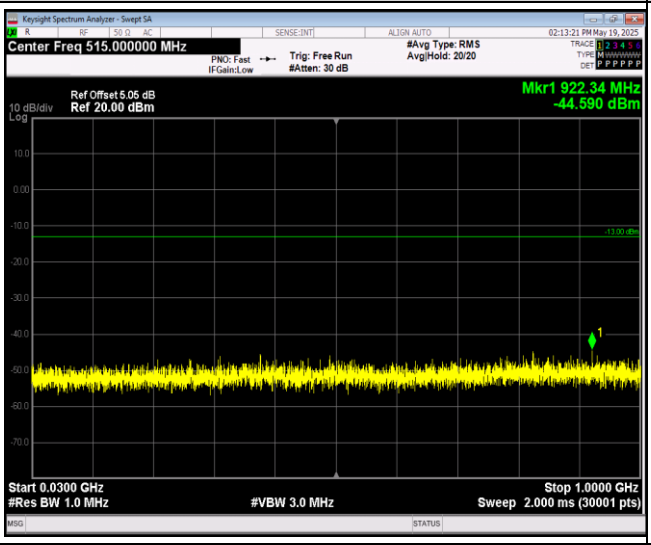
Band2-9400-0.009~0.15MHz



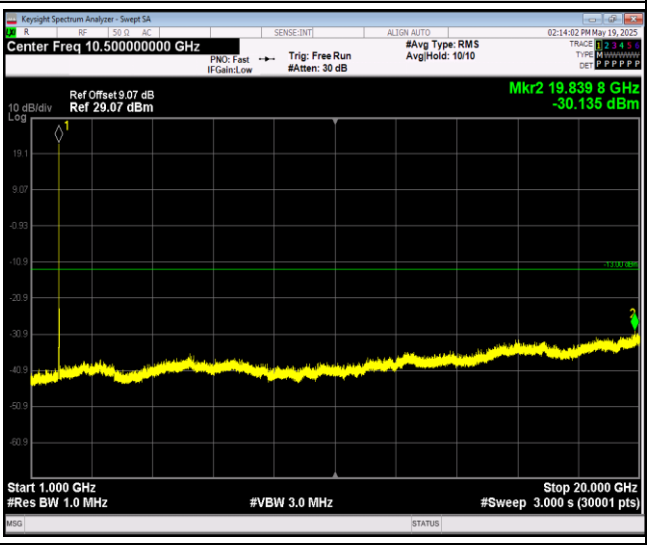
Band2-9400-0.15~30MHz



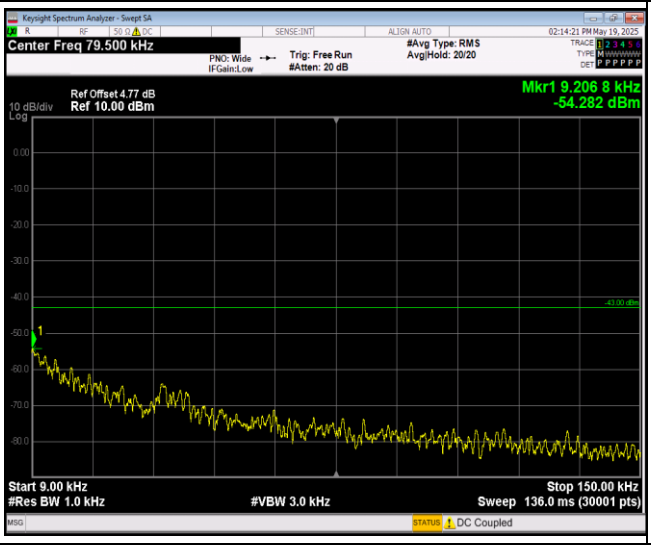
Band2-9400-30~1000MHz



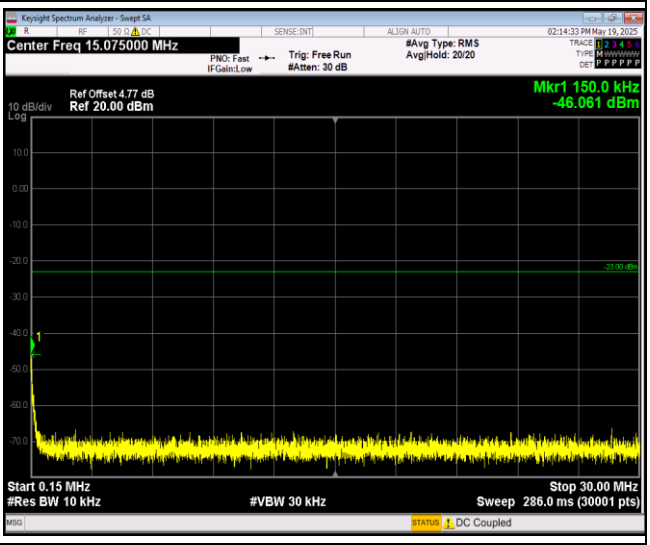
Band2-9400-1000~20000MHz



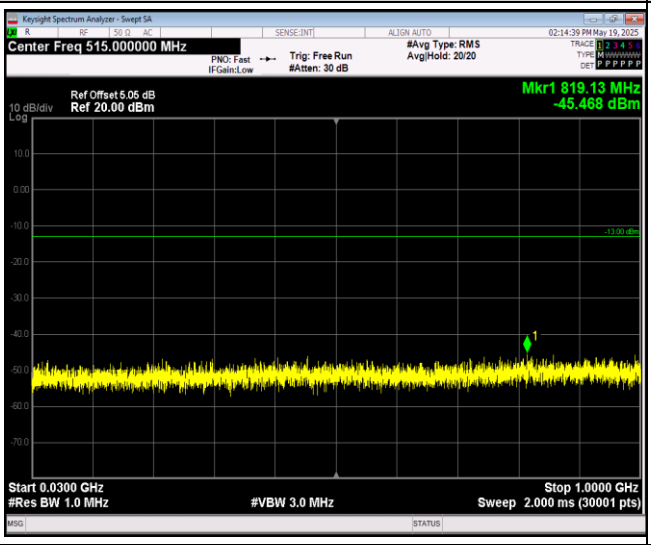
Band2-9538-0.009~0.15MHz



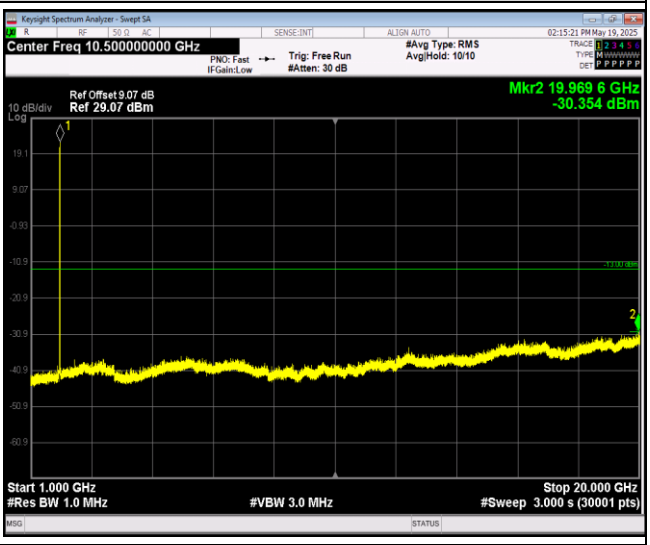
Band2-9538-0.15~30MHz



Band2-9538-30~1000MHz

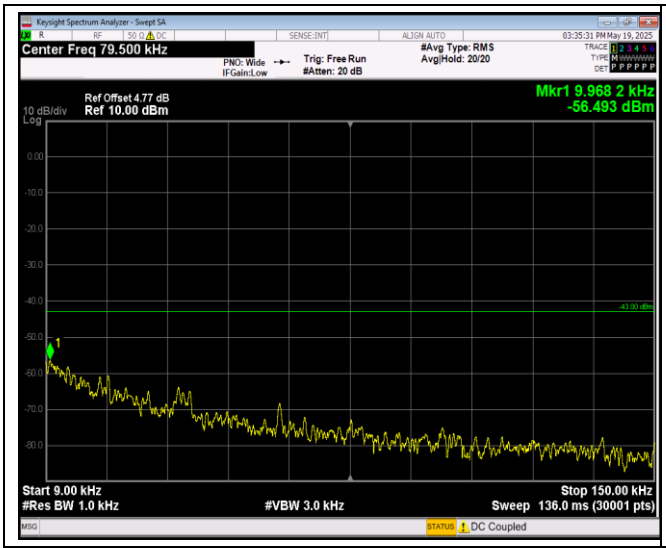


Band2-9538-1000~20000MHz

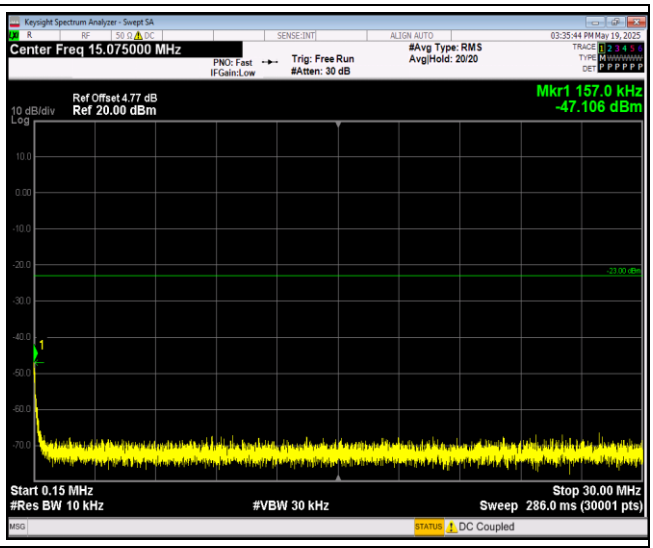


Band4-1312-0.009~0.15MHz

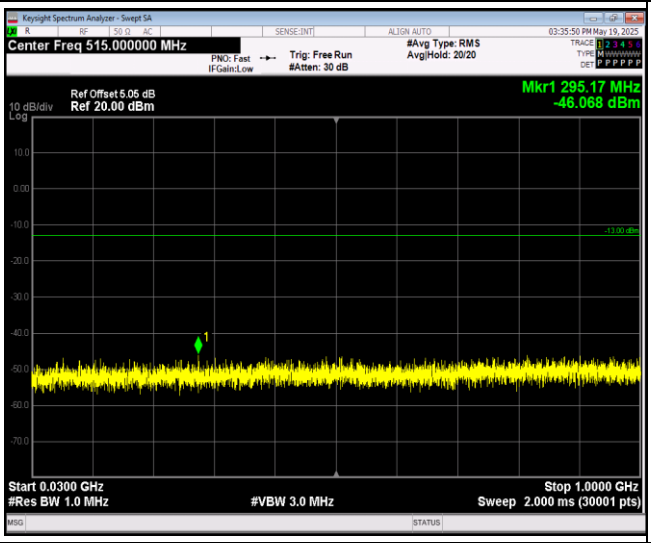
Band4-1312-0.15~30MHz



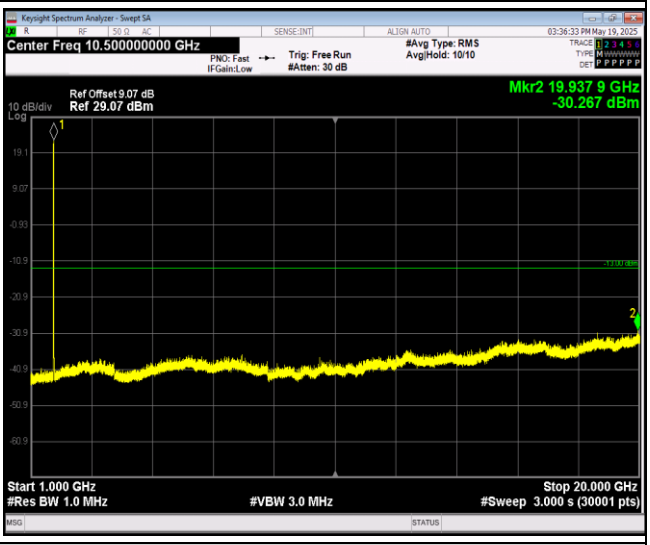
Band4-1312-30~1000MHz



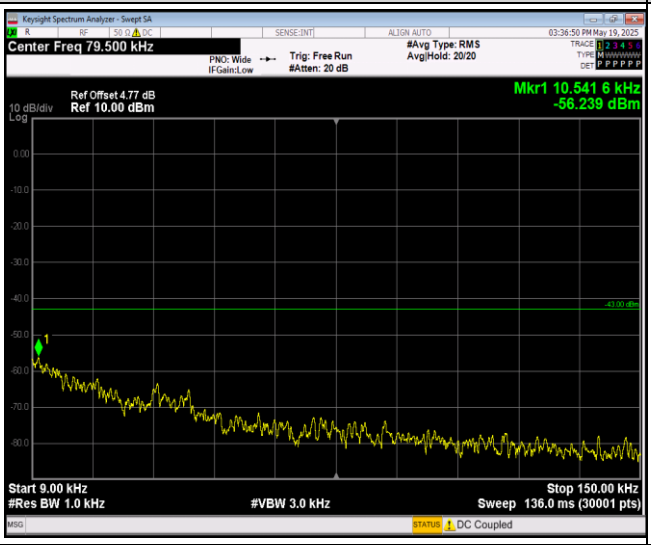
Band4-1312-1000~20000MHz



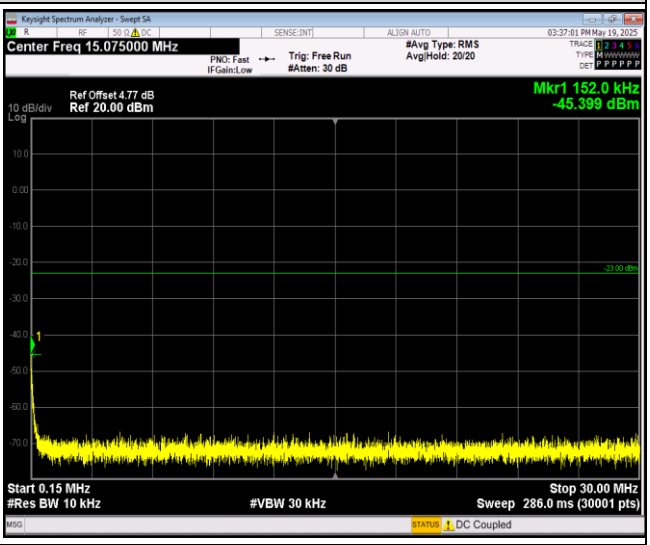
Band4-1413-0.009~0.15MHz



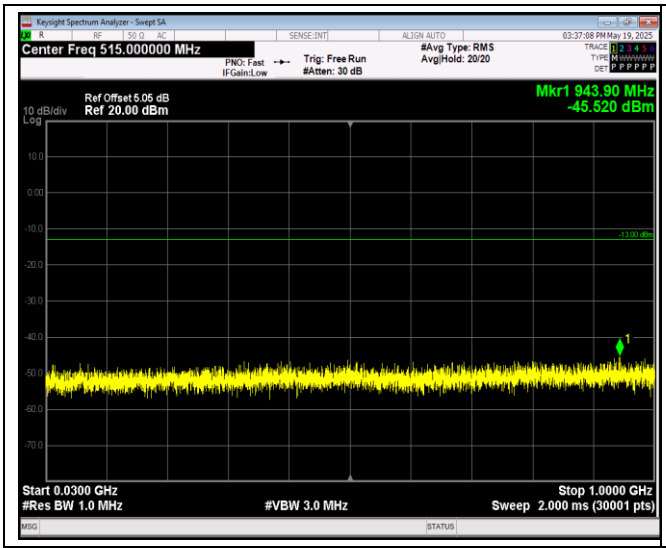
Band4-1413-0.15~30MHz



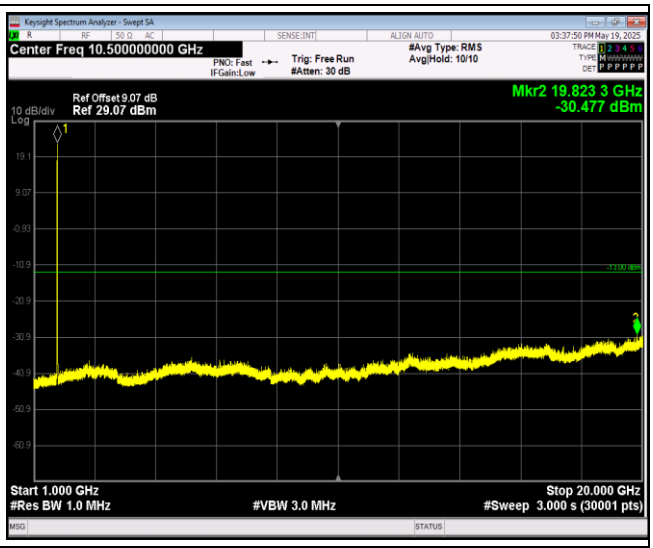
Band4-1413-30~1000MHz



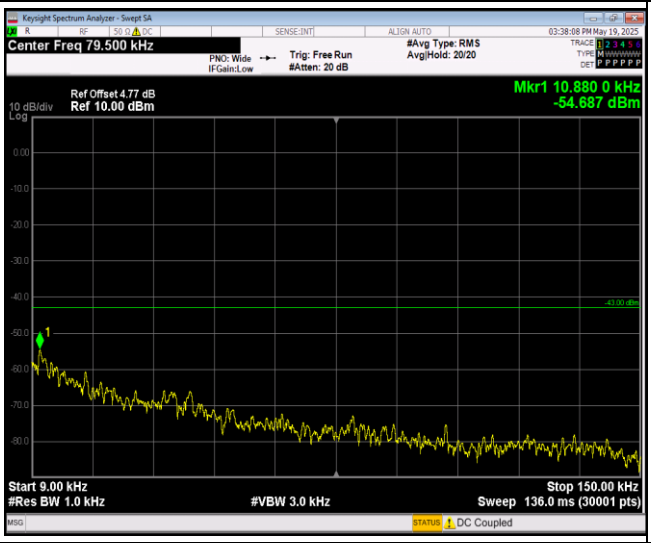
Band4-1413-1000~20000MHz



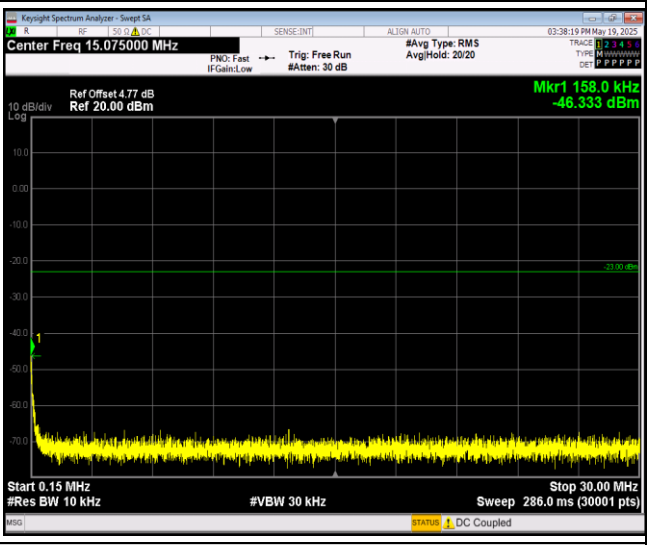
Band4-1513-0.009~0.15MHz



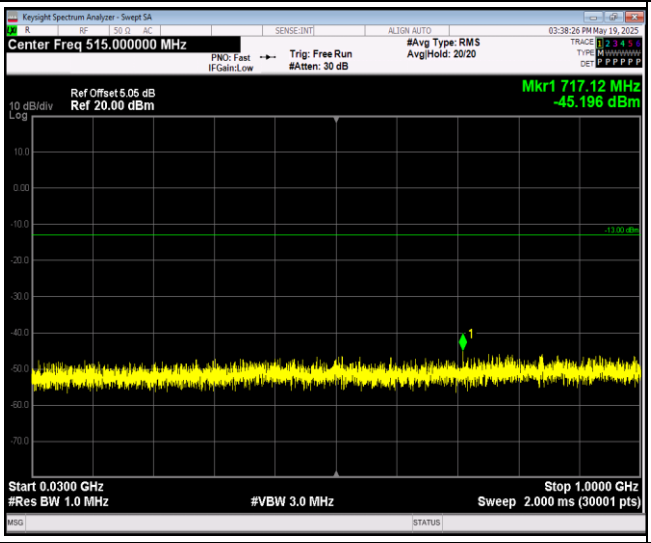
Band4-1513-0.15~30MHz



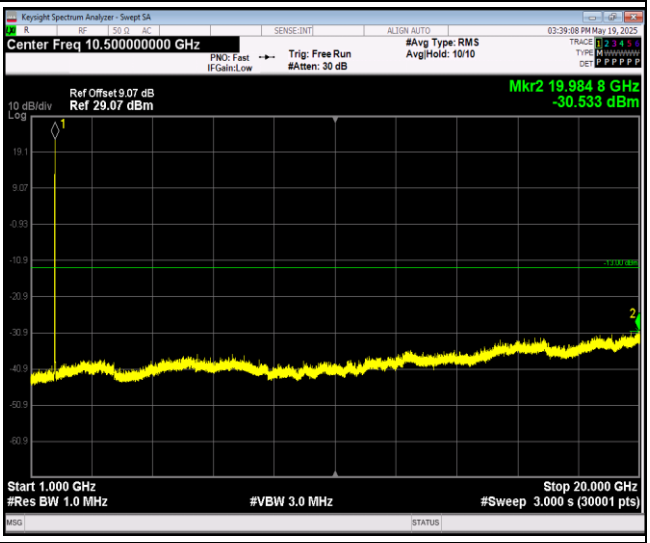
Band4-1513-30~1000MHz



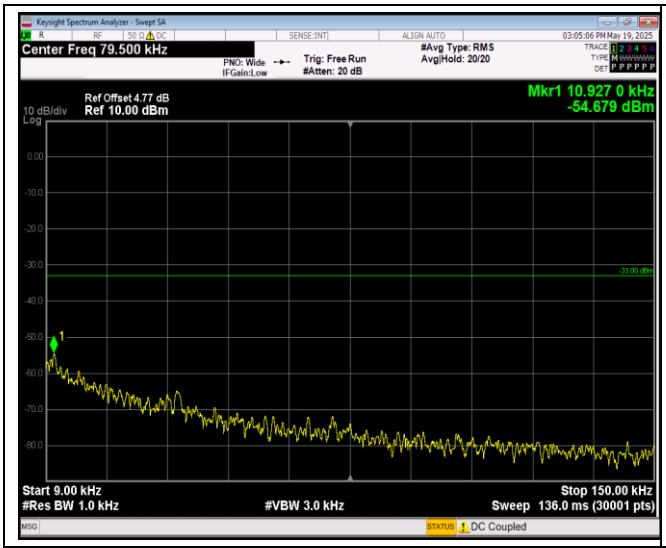
Band4-1513-1000~20000MHz



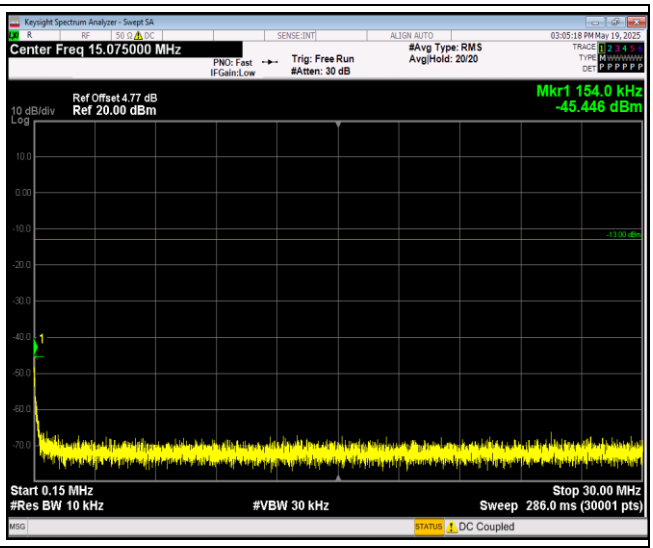
Band5-4132-0.009~0.15MHz



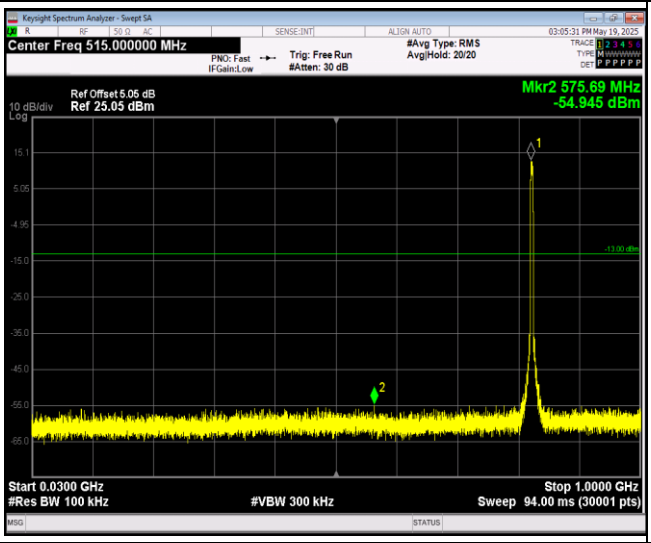
Band5-4132-0.15~30MHz



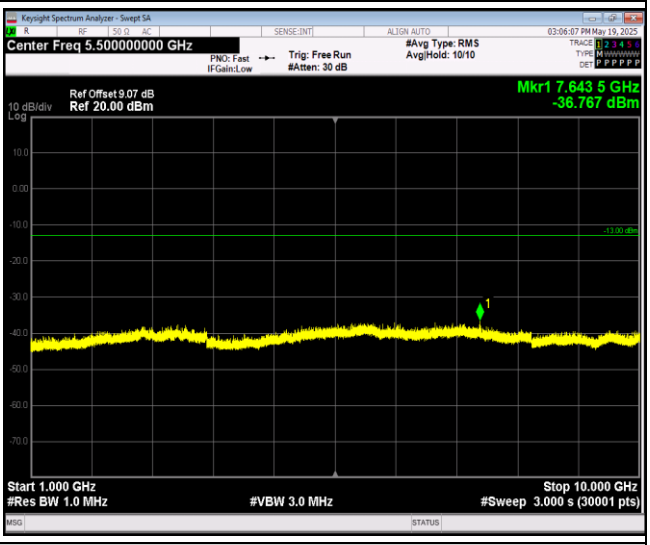
Band5-4132-30~1000MHz



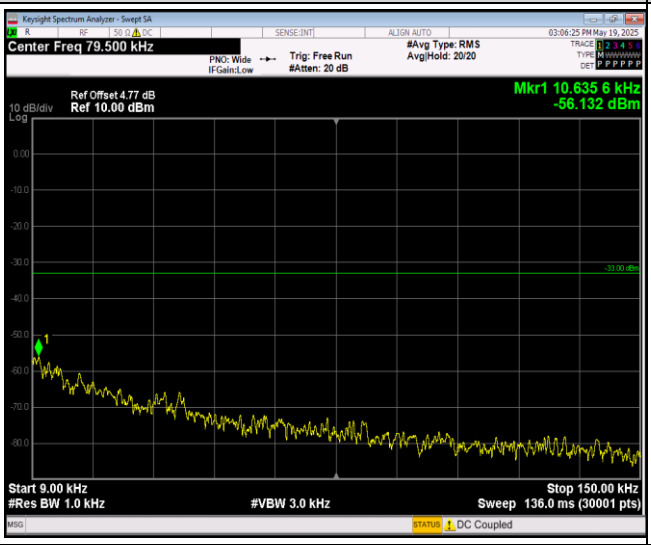
Band5-4132-1000~10000MHz



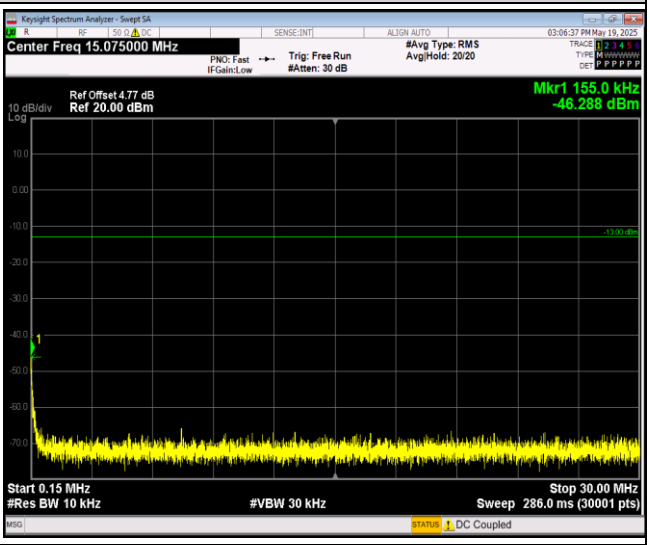
Band5-4183-0.009~0.15MHz



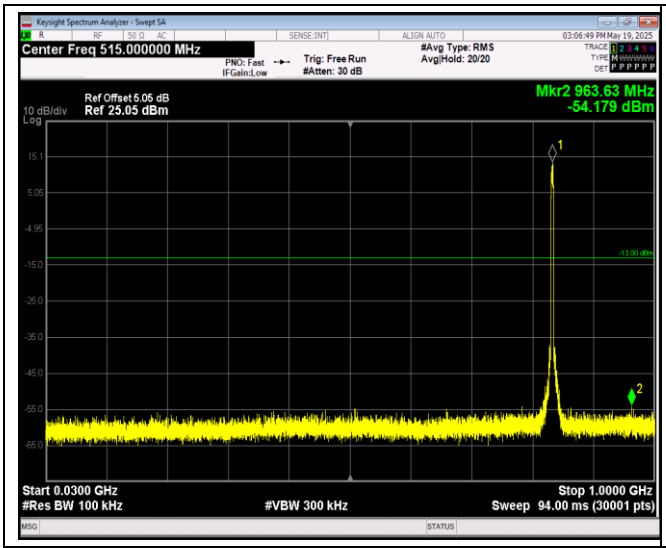
Band5-4183-0.15~30MHz



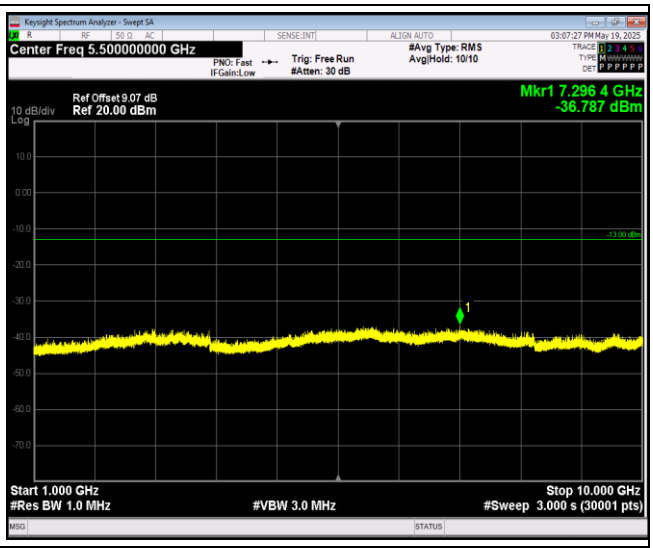
Band5-4183-30~1000MHz



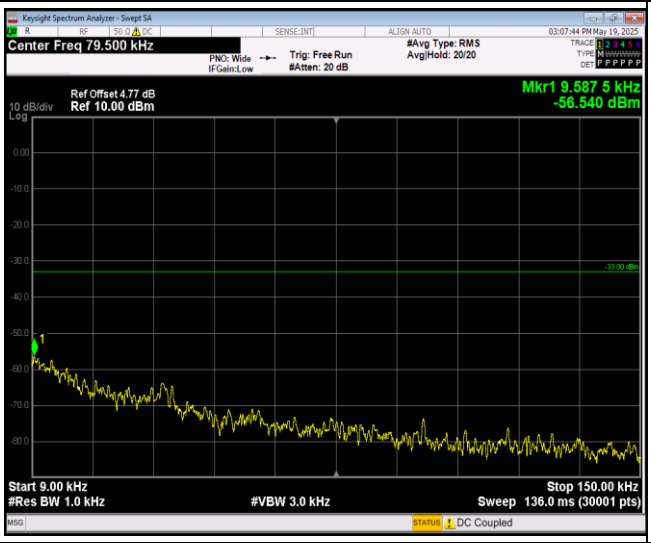
Band5-4183-1000~10000MHz



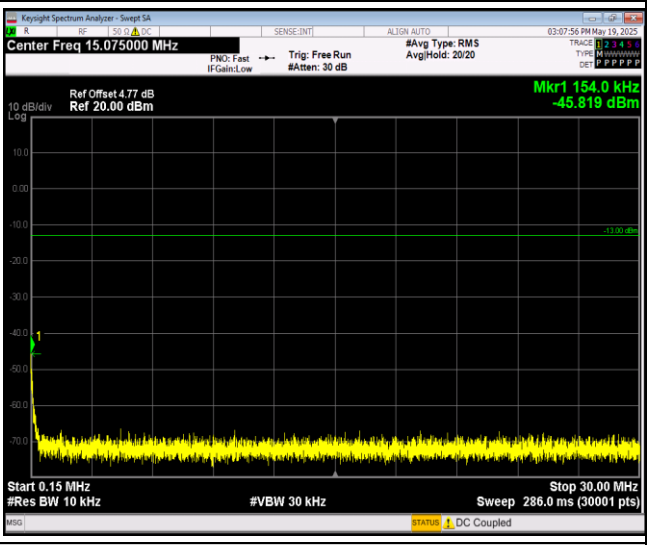
Band5-4233-0.009~0.15MHz



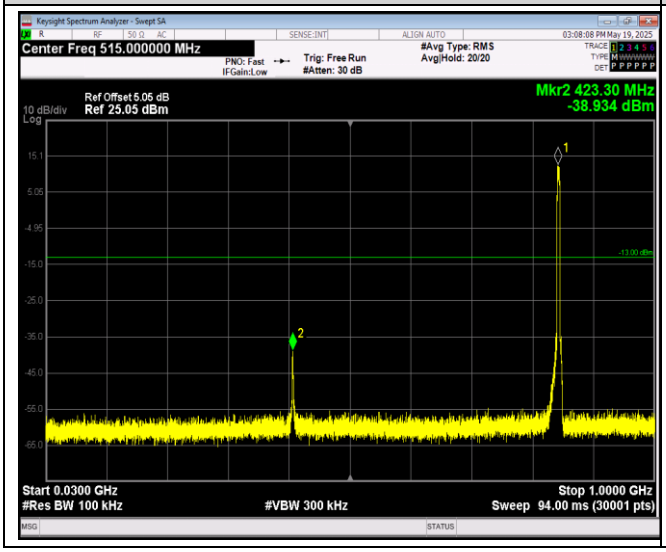
Band5-4233-0.15~30MHz

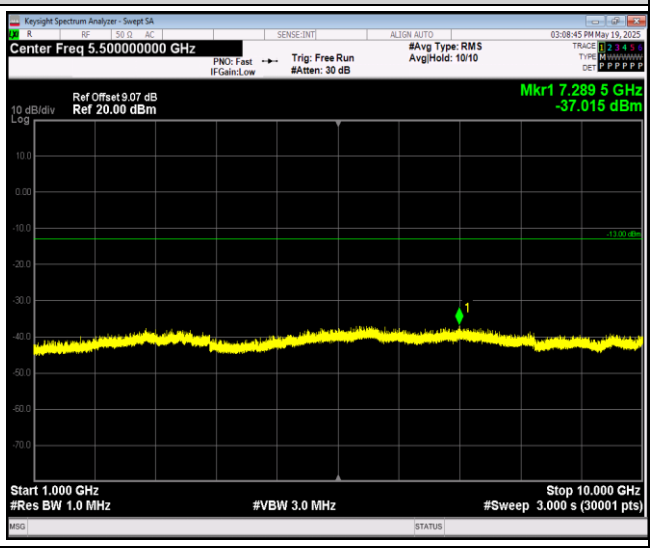


Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz





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		
3.87	-30	-2.30	-0.002749	±2.5	Pass
	-20	-2.01	-0.002403		
	-10	-2.68	-0.003203		
	0	-2.25	-0.002689		
	10	-5.27	-0.006299		
	20	-1.61	-0.001924		
	30	-1.16	-0.001387		
	40	-2.96	-0.003538		
	50	-2.76	-0.003299		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-1.60	-0.001913	±2.5	Pass
	3.87	-3.21	-0.003837		
	4.45	-3.17	-0.003789		
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		
3.87	-30	0.28	0.000162	Within authorized band for BAND IV	Pass
	-20	-1.04	-0.000600		
	-10	-3.03	-0.001749		
	0	-1.57	-0.000906		
	10	-2.34	-0.001351		
	20	-2.10	-0.001212		
	30	-5.57	-0.003215		
	40	-1.32	-0.000762		
	50	-3.33	-0.001922		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-3.35	-0.001934	Within authorized band for BAND IV	Pass
	3.87	-2.83	-0.001633		
	4.45	-3.15	-0.001818		
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		
3.87	-30	1.57	0.000835	Within authorized band for BAND II	Pass
	-20	1.08	0.000574		
	-10	4.03	0.002144		
	0	0.69	0.000367		
	10	2.03	0.001080		
	20	3.58	0.001904		
	30	2.46	0.001309		
	40	1.21	0.000644		
	50	-1.44	-0.000766		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	0.99	0.000527	Within authorized band for BAND II	Pass
	3.87	2.96	0.001574		
	4.45	0.45	0.000239		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

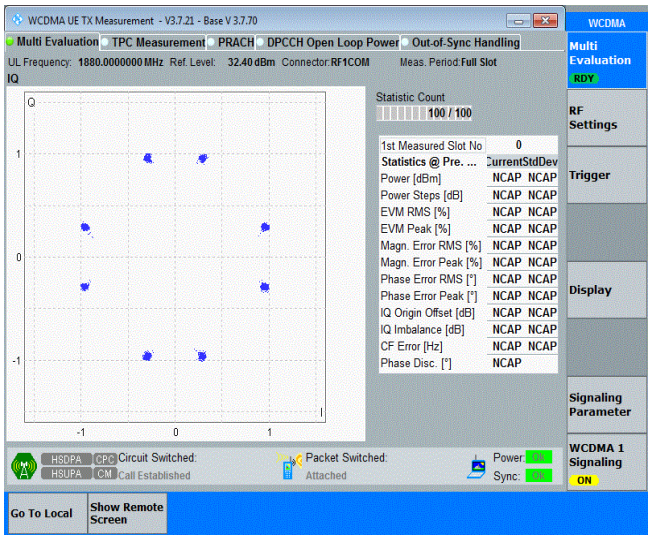
Test Result

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

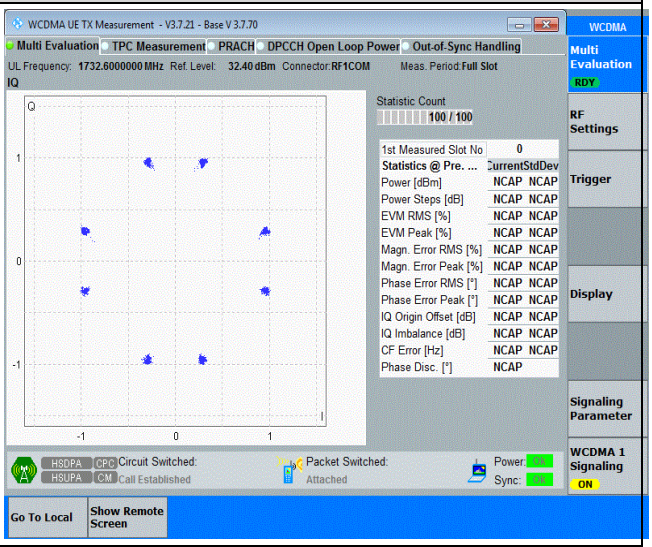
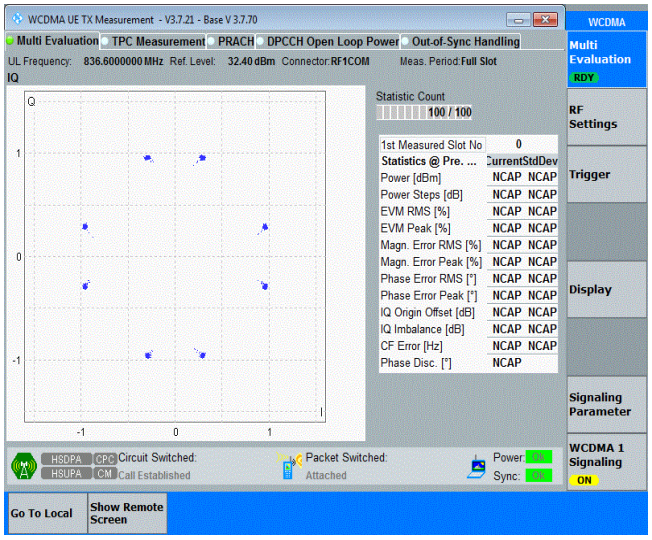
Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

Band2-9400



Band4-1413



Band5-4183