

WCDMA Band II Test Data

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AppendixA: RF POWER OUTPUT

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	22.93	33	PASS
Band2	9400	23.02	33	PASS
Band2	9538	22.84	33	PASS



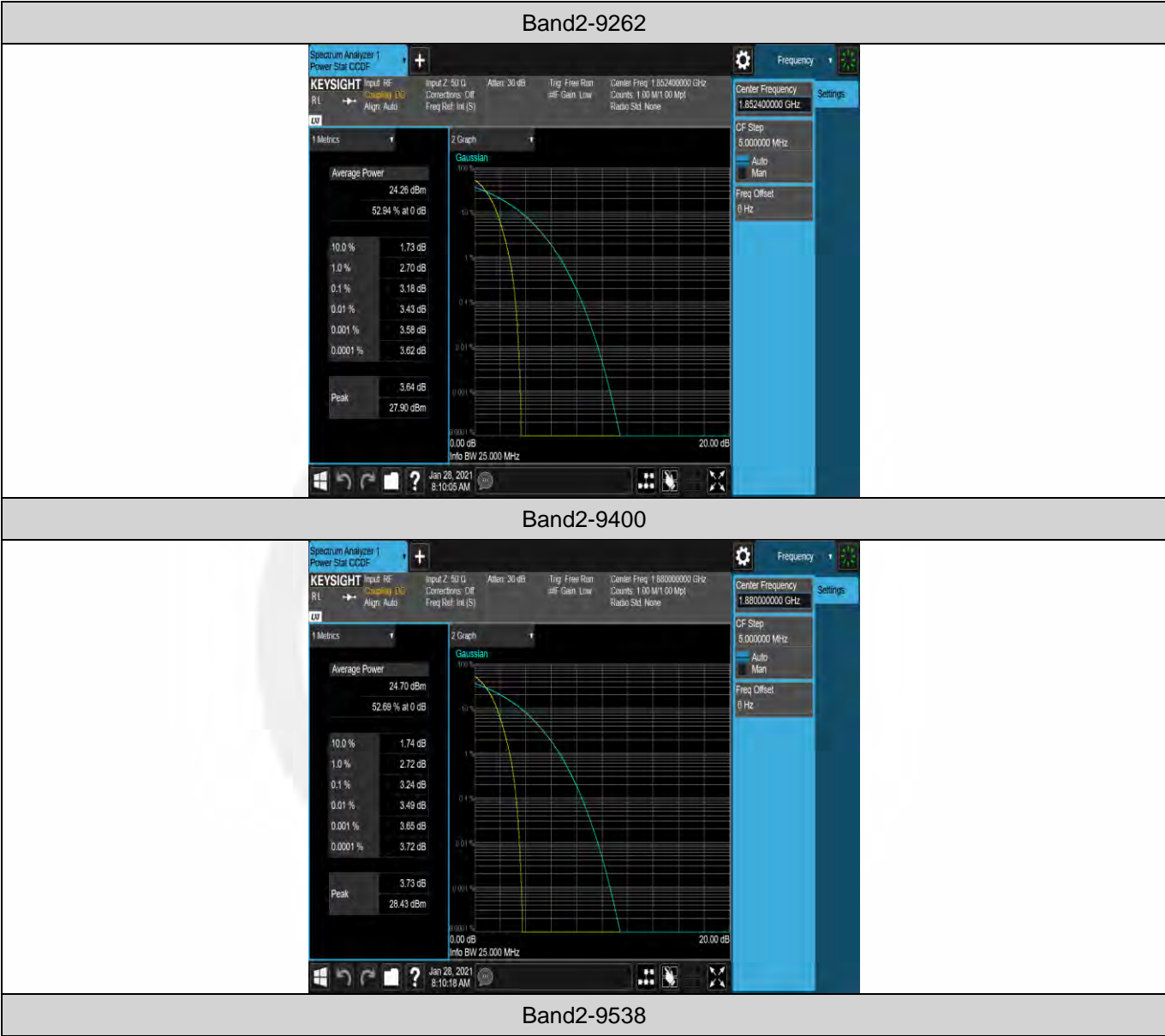
AppendixB:Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	3.18	13	PASS
Band2	9400	3.24	13	PASS
Band2	9538	3.1	13	PASS



Test Graphs





Appendix C: 26dB Bandwidth and Occupied Bandwidth

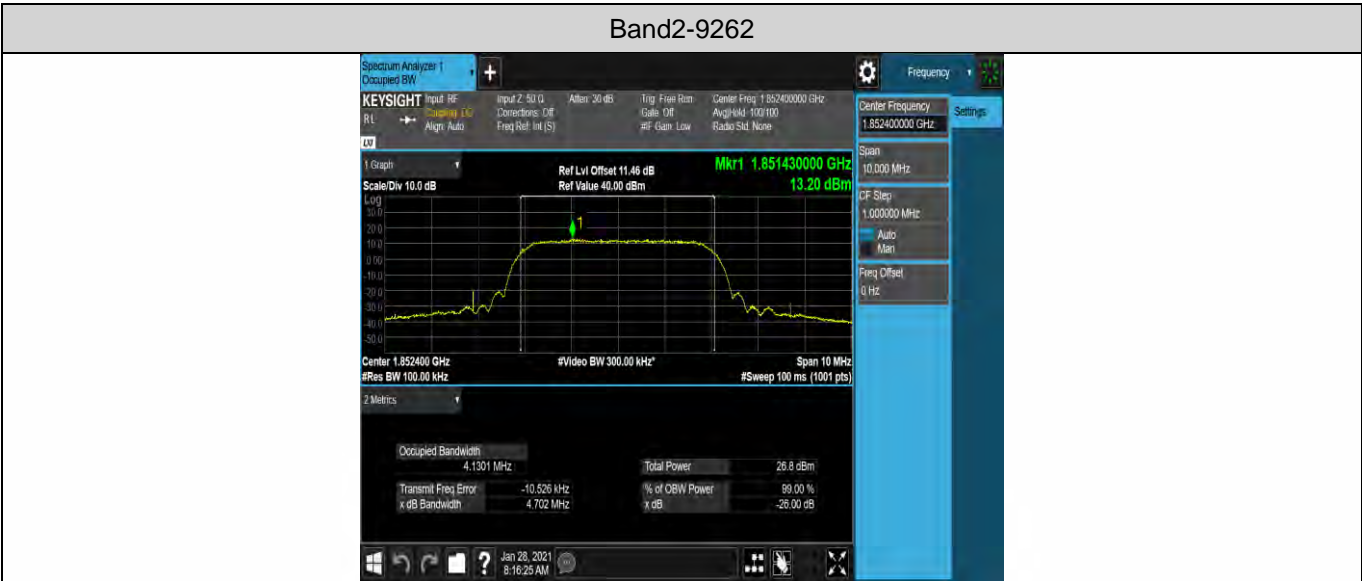
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band2	9262	4.1301	4.702	---	PASS
Band2	9400	4.1285	4.714	---	PASS
Band2	9538	4.1220	4.703	---	PASS

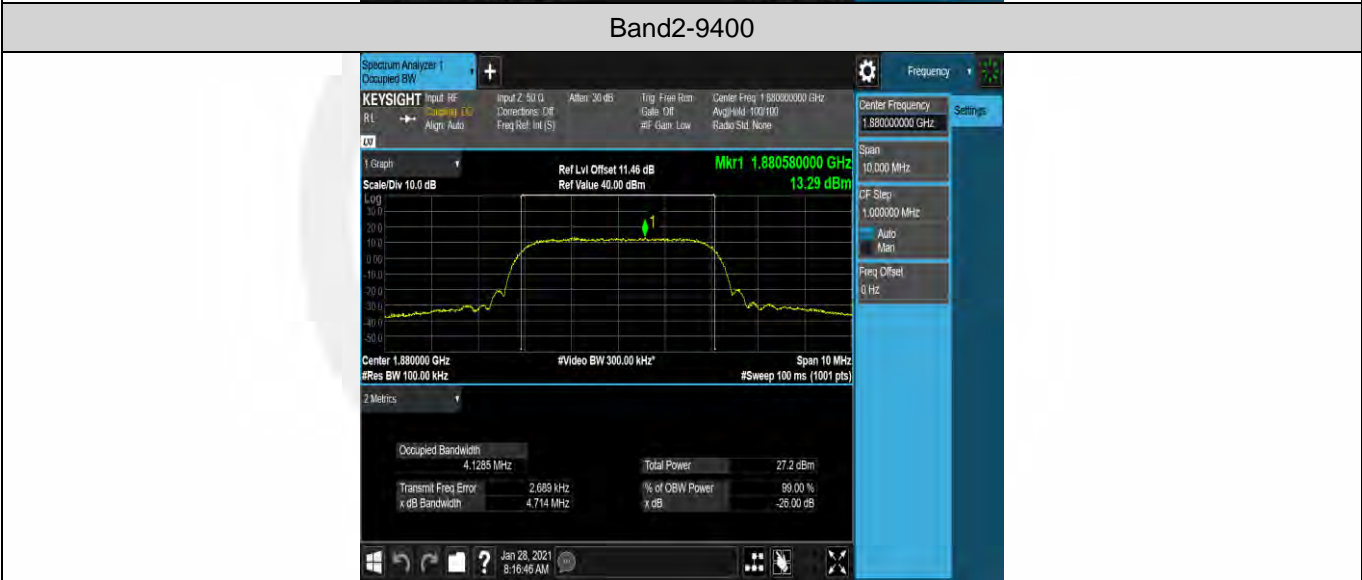


Test Graphs

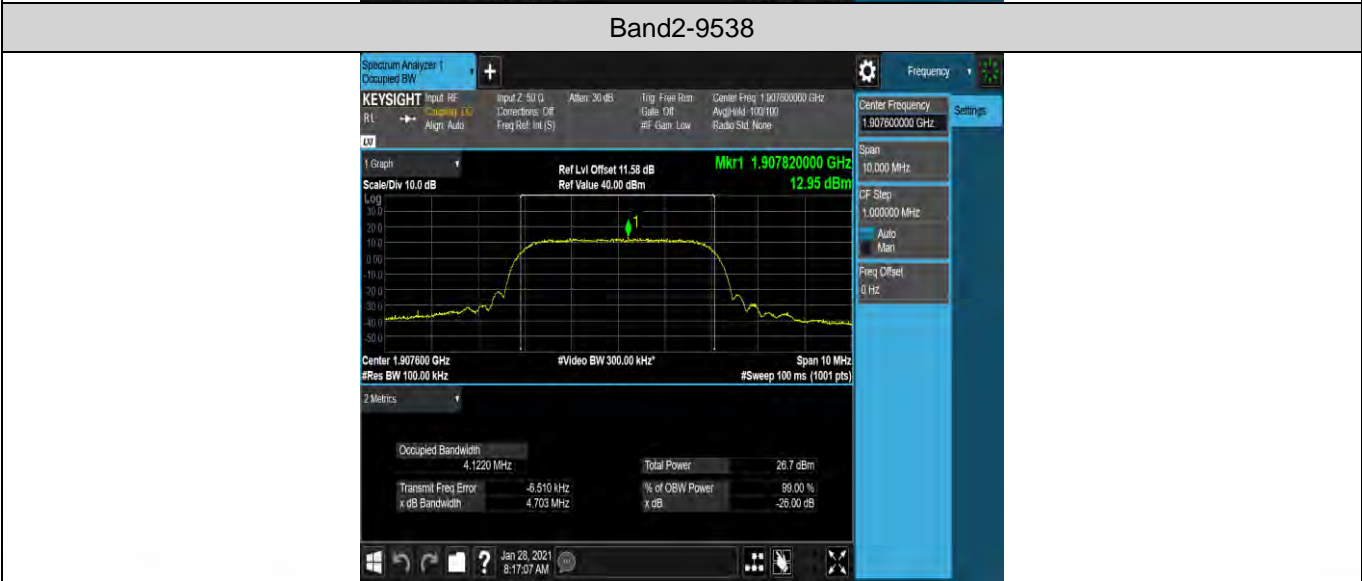
Band2-9262



Band2-9400



Band2-9538



AppendixD:Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-20.97	-13	PASS
Band2	9538	1910.00	-21.87	-13	PASS



Test Graphs


Band2-9538

Appendix E: Conducted Spurious Emission

Test Result

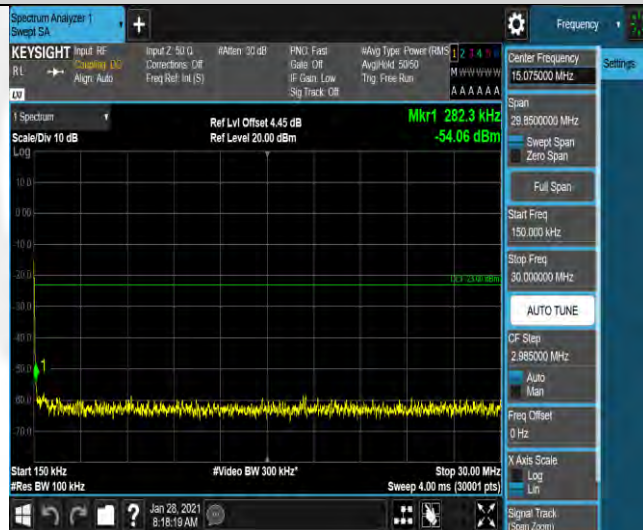
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-57.08	-43	PASS
Band2	9262	0.15~30MHz	0.28	-54.06	-23	PASS
Band2	9262	30~1000MHz	916.13	-35.82	-13	PASS
Band2	9262	1000~3000MHz	2612.67	-38.54	-13	PASS
Band2	9262	3000~10000MHz	3834.87	-50.66	-13	PASS
Band2	9262	10000~20000MHz	19999	-43.03	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-56.32	-43	PASS
Band2	9400	0.15~30MHz	0.31	-53.5	-23	PASS
Band2	9400	30~1000MHz	697.3	-35.86	-13	PASS
Band2	9400	1000~3000MHz	2609.87	-38.62	-13	PASS
Band2	9400	3000~10000MHz	3841.63	-50.86	-13	PASS
Band2	9400	10000~20000MHz	19171	-43.14	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-56.92	-43	PASS
Band2	9538	0.15~30MHz	0.28	-55.07	-23	PASS
Band2	9538	30~1000MHz	956.64	-35.69	-13	PASS
Band2	9538	1000~3000MHz	2654.27	-38.47	-13	PASS
Band2	9538	3000~10000MHz	3817.83	-50.66	-13	PASS
Band2	9538	10000~20000MHz	19072.67	-43.3	-13	PASS

Test Graphs

Band2-9262-0.009~0.15MHz



Band2-9262-0.15~30MHz



Band2-9262-30~1000MHz



Band2-9262-1000~3000MHz



Band2-9262-3000~10000MHz



Band2-9262-10000~20000MHz



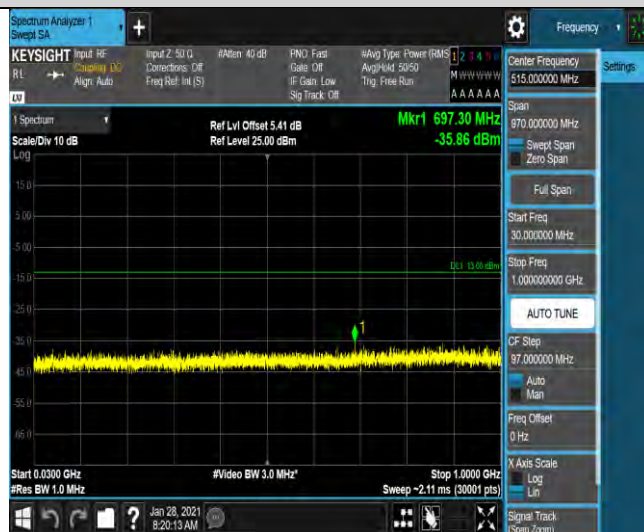
Band2-9400-0.009~0.15MHz



Band2-9400-0.15~30MHz



Band2-9400-30~1000MHz



Band2-9400-1000~3000MHz



Band2-9400-3000~10000MHz



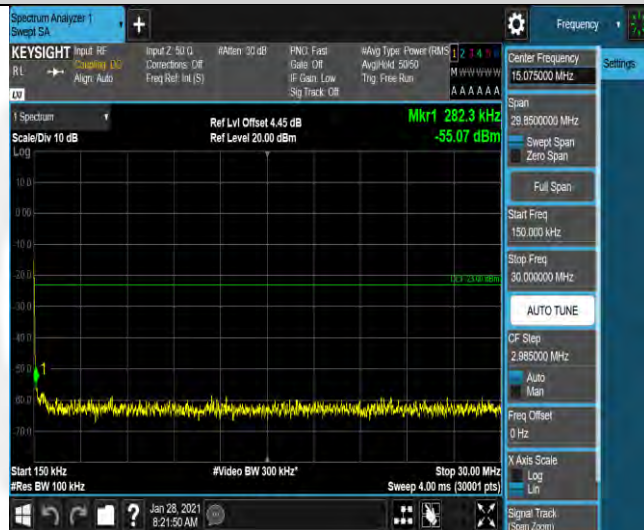
Band2-9400-10000~20000MHz



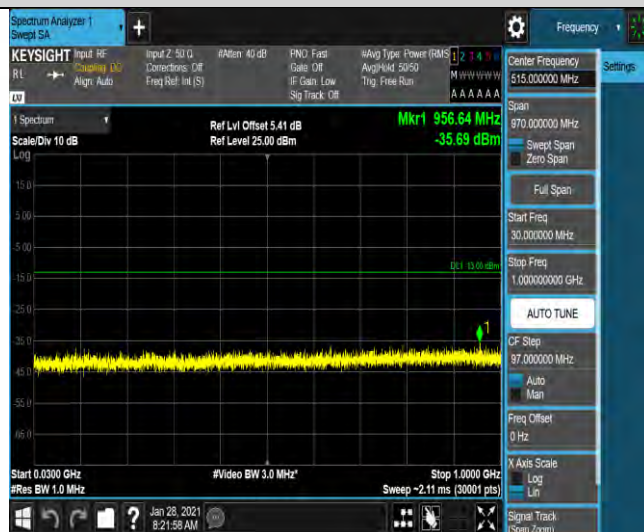
Band2-9538-0.009~0.15MHz



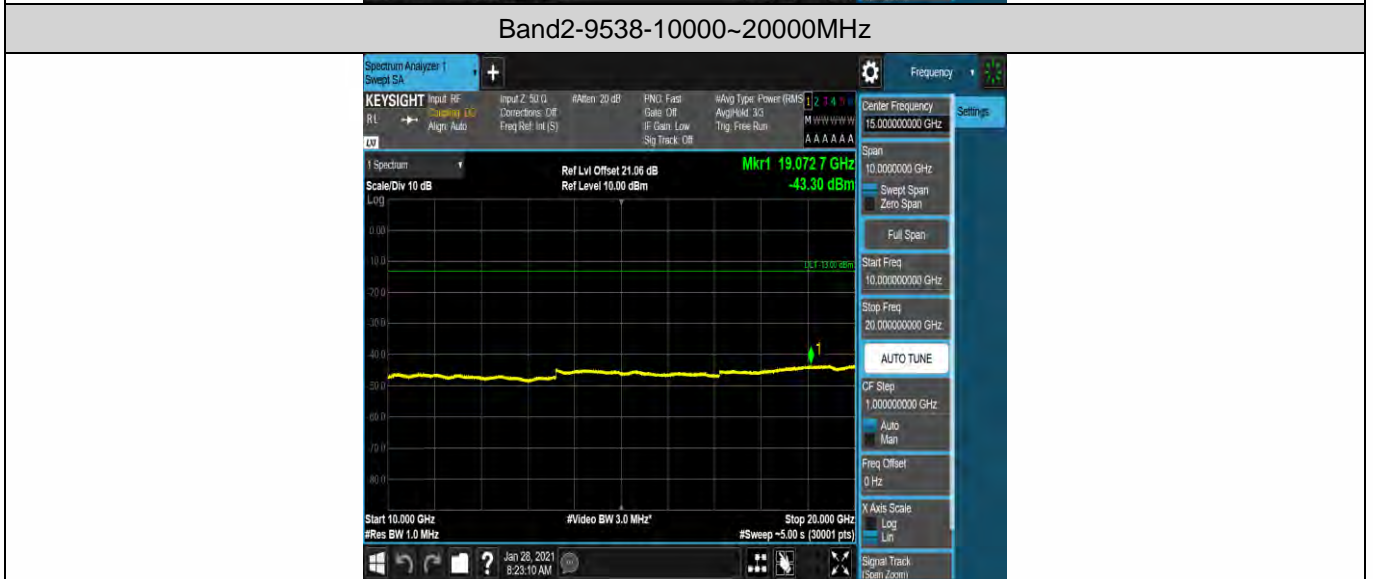
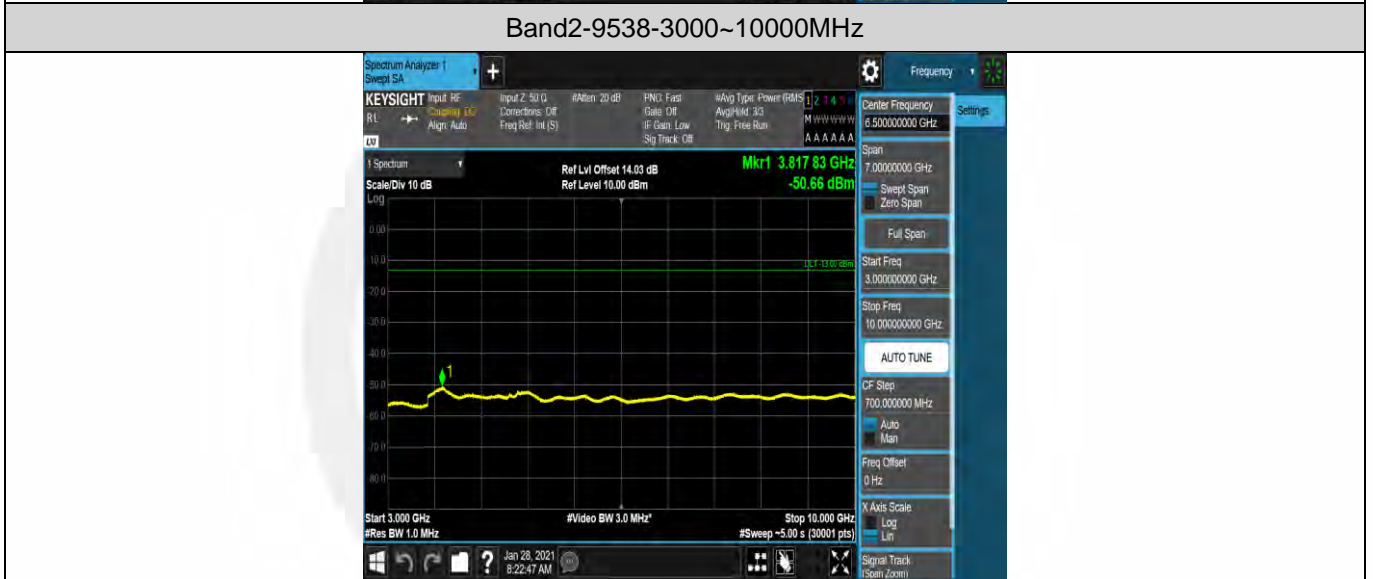
Band2-9538-0.15~30MHz



Band2-9538-30~1000MHz



Band2-9538-1000~3000MHz



Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	14.57	0.007865	±2.5	PASS
Band2	9262	VN	NT	15.18	0.008195	±2.5	PASS
Band2	9262	VH	NT	15.03	0.008114	±2.5	PASS
Band2	9400	VL	NT	10.78	0.005734	±2.5	PASS
Band2	9400	VN	NT	11.33	0.006027	±2.5	PASS
Band2	9400	VH	NT	11.32	0.006021	±2.5	PASS
Band2	9538	VL	NT	4.61	0.002417	±2.5	PASS
Band2	9538	VN	NT	4.48	0.002349	±2.5	PASS
Band2	9538	VH	NT	4.06	0.002128	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	16.01	0.008643	±2.5	PASS
Band2	9262	NV	-20	16.52	0.008918	±2.5	PASS
Band2	9262	NV	-10	16.56	0.008940	±2.5	PASS
Band2	9262	NV	0	16.76	0.009048	±2.5	PASS
Band2	9262	NV	10	16.94	0.009145	±2.5	PASS
Band2	9262	NV	20	17.02	0.009188	±2.5	PASS
Band2	9262	NV	30	16.38	0.008843	±2.5	PASS
Band2	9262	NV	40	16.73	0.009032	±2.5	PASS
Band2	9262	NV	50	17.83	0.009625	±2.5	PASS
Band2	9400	NV	-30	10.33	0.005495	±2.5	PASS
Band2	9400	NV	-20	11.27	0.005995	±2.5	PASS
Band2	9400	NV	-10	11.22	0.005968	±2.5	PASS
Band2	9400	NV	0	10.89	0.005793	±2.5	PASS
Band2	9400	NV	10	10.41	0.005537	±2.5	PASS
Band2	9400	NV	20	10.99	0.005846	±2.5	PASS
Band2	9400	NV	30	12.32	0.006553	±2.5	PASS
Band2	9400	NV	40	11.06	0.005883	±2.5	PASS
Band2	9400	NV	50	10.28	0.005468	±2.5	PASS

Band2	9538	NV	-30	4.86	0.002548	±2.5	PASS
Band2	9538	NV	-20	5.11	0.002679	±2.5	PASS
Band2	9538	NV	-10	4.07	0.002134	±2.5	PASS
Band2	9538	NV	0	4.56	0.002390	±2.5	PASS
Band2	9538	NV	10	4.16	0.002181	±2.5	PASS
Band2	9538	NV	20	4.29	0.002249	±2.5	PASS
Band2	9538	NV	30	4.74	0.002485	±2.5	PASS
Band2	9538	NV	40	3.79	0.001987	±2.5	PASS
Band2	9538	NV	50	3.98	0.002086	±2.5	PASS

*** The End ***

WCDMA Band IV Test Data

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AppendixF: Frequency Stability

AppendixA: RF POWER OUTPUT

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	22.27	30	PASS
Band4	1413	22.44	30	PASS
Band4	1513	22.27	30	PASS



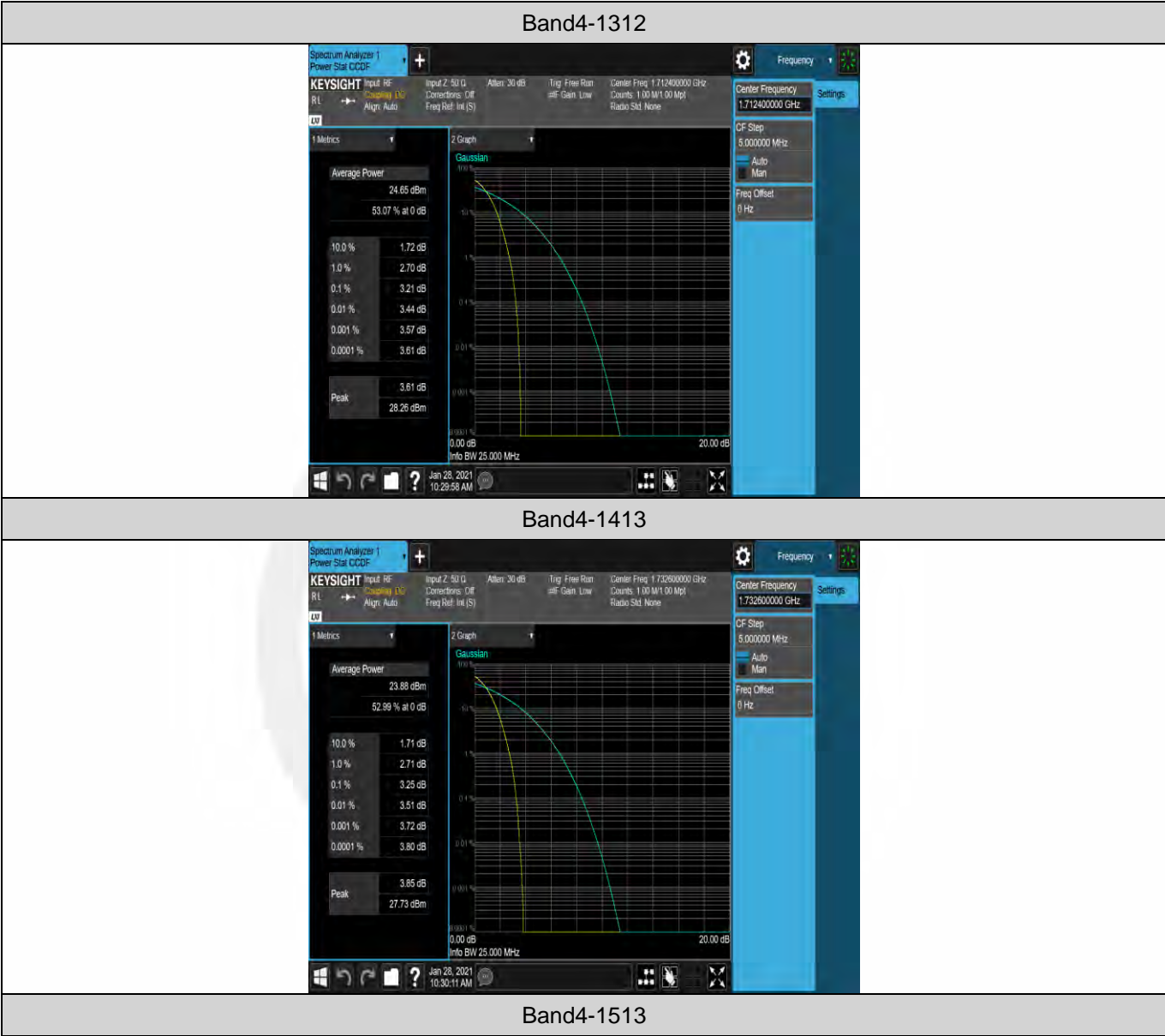
AppendixB:Peak-to-Average Ratio

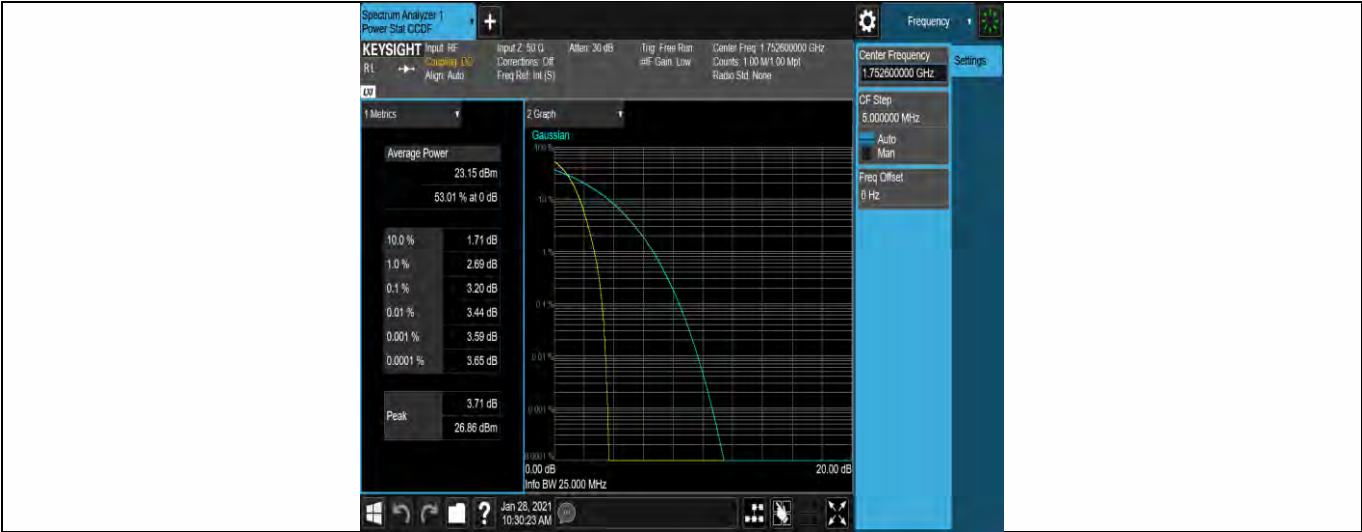
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.21	13	PASS
Band4	1413	3.25	13	PASS
Band4	1513	3.2	13	PASS



Test Graphs





Appendix C: 26dB Bandwidth and Occupied Bandwidth

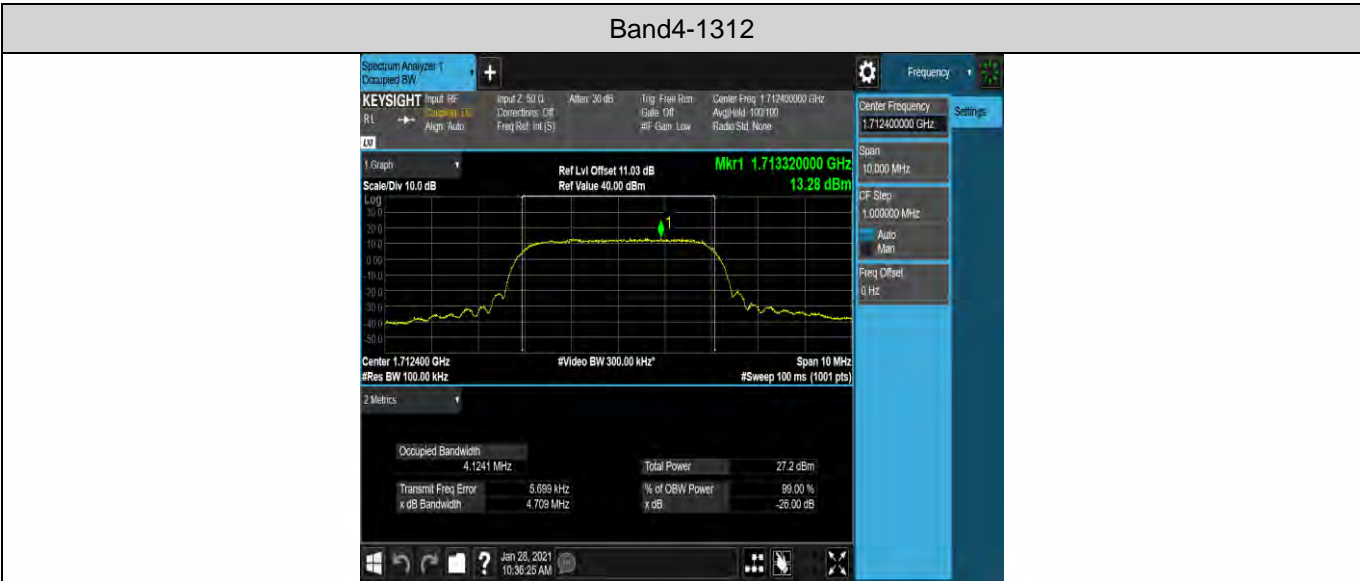
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band4	1312	4.1241	4.709	---	PASS
Band4	1413	4.1273	4.710	---	PASS
Band4	1513	4.1300	4.713	---	PASS

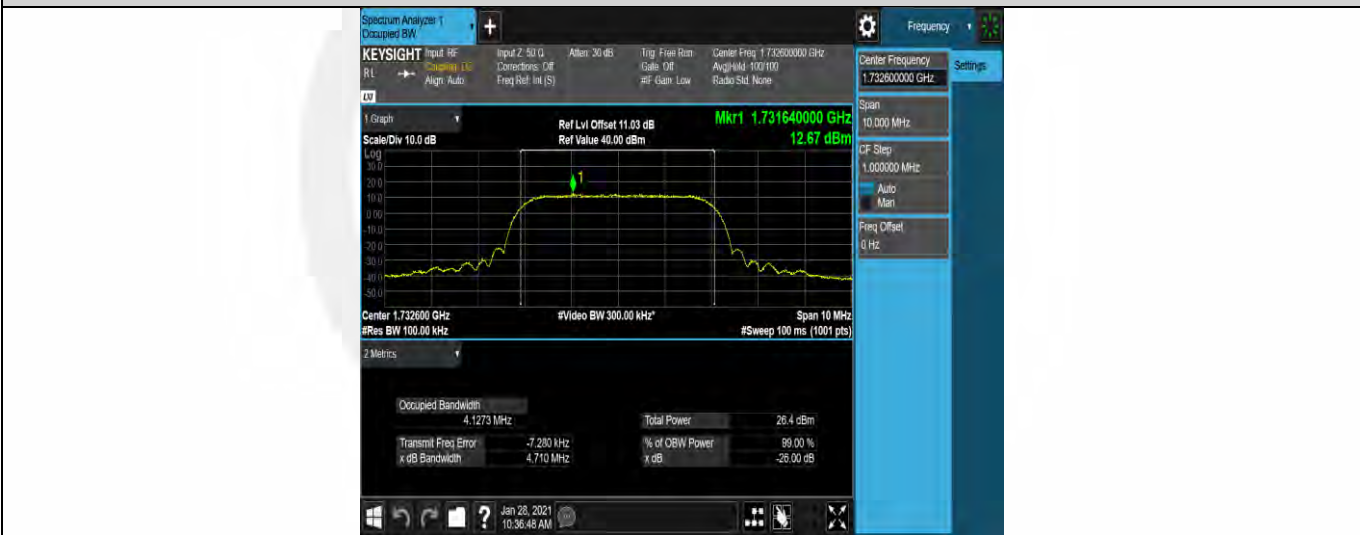


Test Graphs

Band4-1312



Band4-1413



Band4-1513



AppendixD:Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1710.00	-21.31	-13	PASS
Band4	1513	1755.00	-21.73	-13	PASS



Test Graphs



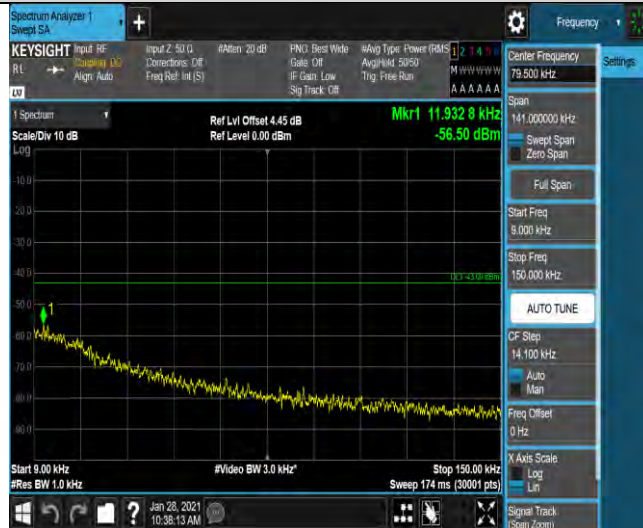
Appendix E: Conducted Spurious Emission

Test Result

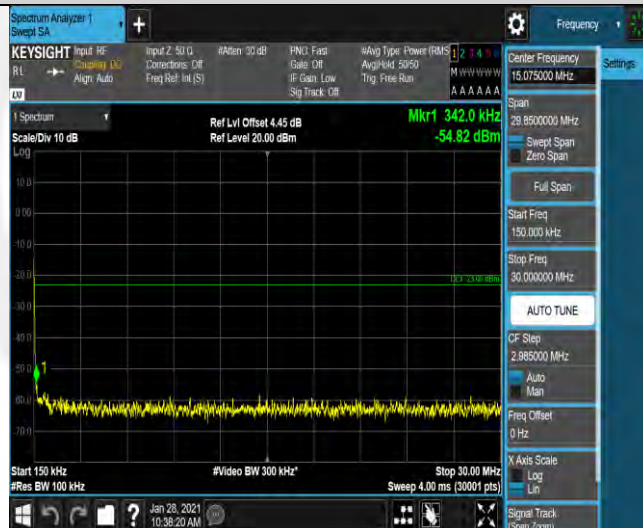
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.01	-56.5	-43	PASS
Band4	1312	0.15~30MHz	0.34	-54.82	-23	PASS
Band4	1312	30~1000MHz	700.66	-35.96	-13	PASS
Band4	1312	1000~3000MHz	2608.47	-38.44	-13	PASS
Band4	1312	3000~10000MHz	3835.57	-50.55	-13	PASS
Band4	1312	10000~20000MHz	19992.67	-42.91	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-57.11	-43	PASS
Band4	1413	0.15~30MHz	0.3	-55.42	-23	PASS
Band4	1413	30~1000MHz	424.47	-35.97	-13	PASS
Band4	1413	1000~3000MHz	2691.13	-38.72	-13	PASS
Band4	1413	3000~10000MHz	3826.93	-50.54	-13	PASS
Band4	1413	10000~20000MHz	19431.33	-43	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-57.5	-43	PASS
Band4	1513	0.15~30MHz	0.3	-55.66	-23	PASS
Band4	1513	30~1000MHz	900.9	-36.53	-13	PASS
Band4	1513	1000~3000MHz	2636.8	-38.65	-13	PASS
Band4	1513	3000~10000MHz	3830.2	-50.61	-13	PASS
Band4	1513	10000~20000MHz	19182.67	-42.96	-13	PASS

Test Graphs

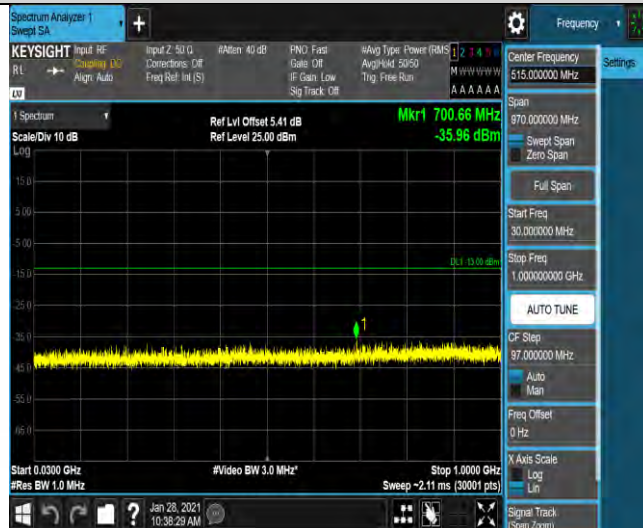
Band4-1312-0.009~0.15MHz



Band4-1312-0.15~30MHz



Band4-1312-30~1000MHz



Band4-1312-1000~3000MHz



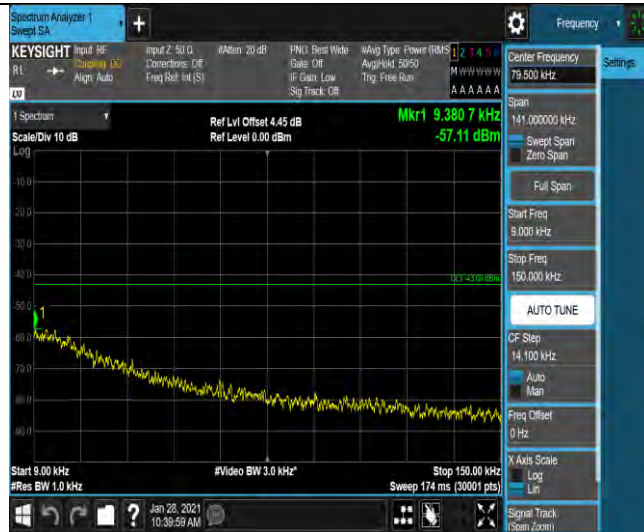
Band4-1312-3000~10000MHz



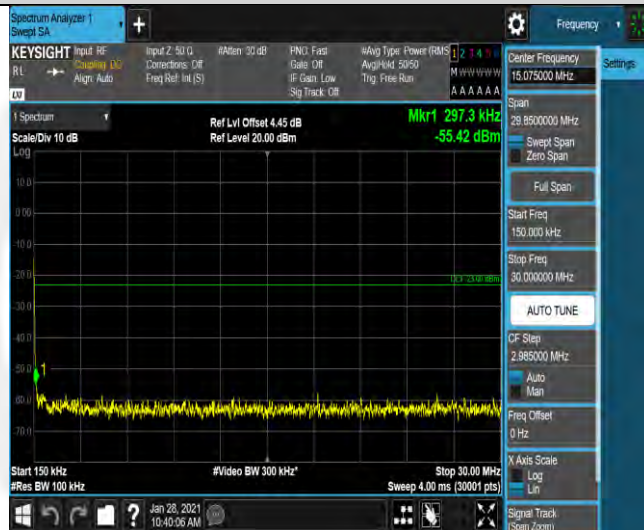
Band4-1312-10000~20000MHz



Band4-1413-0.009~0.15MHz



Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz



Band4-1413-1000~3000MHz



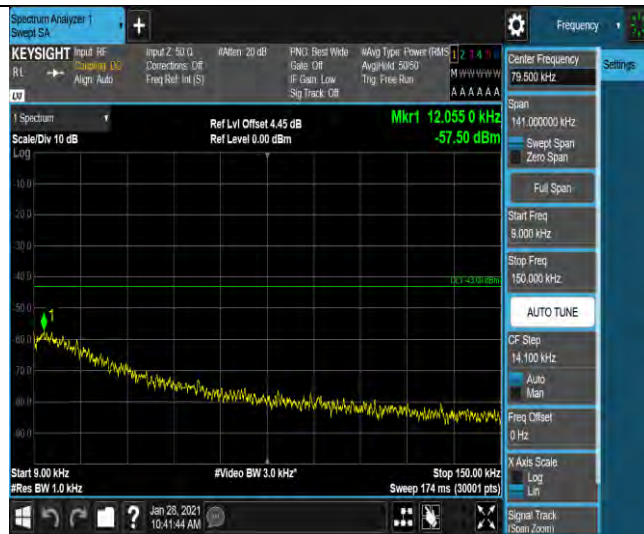
Band4-1413-3000~10000MHz



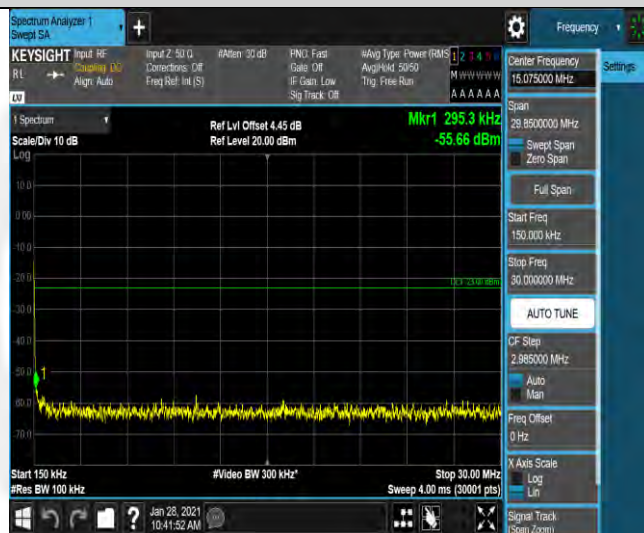
Band4-1413-10000~20000MHz



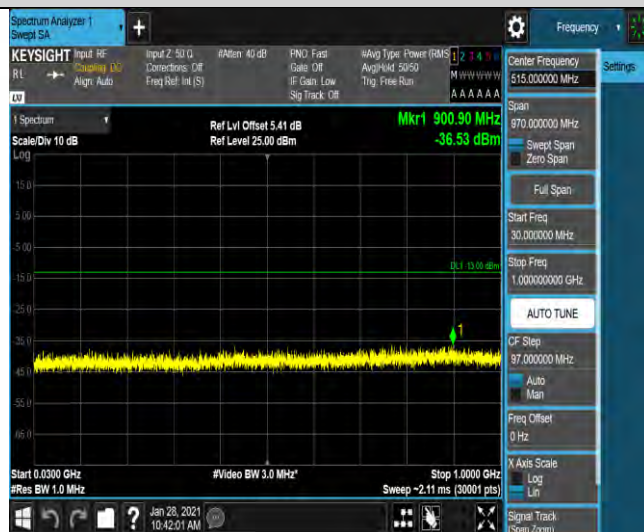
Band4-1513-0.009~0.15MHz



Band4-1513-0.15~30MHz



Band4-1513-30~1000MHz



Band4-1513-1000~3000MHz



Band4-1513-3000~10000MHz



Band4-1513-10000~20000MHz



Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	20.70	0.012088	±2.5	PASS
Band4	1312	VN	NT	19.92	0.011633	±2.5	PASS
Band4	1312	VH	NT	20.77	0.012129	±2.5	PASS
Band4	1413	VL	NT	-1.87	-0.001079	±2.5	PASS
Band4	1413	VN	NT	-1.38	-0.000796	±2.5	PASS
Band4	1413	VH	NT	-0.11	-0.000063	±2.5	PASS
Band4	1513	VL	NT	-16.19	-0.009238	±2.5	PASS
Band4	1513	VN	NT	-15.15	-0.008644	±2.5	PASS
Band4	1513	VH	NT	-14.28	-0.008148	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	22.08	0.012894	±2.5	PASS
Band4	1312	NV	-20	19.36	0.011306	±2.5	PASS
Band4	1312	NV	-10	20.57	0.012012	±2.5	PASS
Band4	1312	NV	0	21.18	0.012369	±2.5	PASS
Band4	1312	NV	10	20.91	0.012211	±2.5	PASS
Band4	1312	NV	20	21.14	0.012345	±2.5	PASS
Band4	1312	NV	30	21.44	0.012520	±2.5	PASS
Band4	1312	NV	40	21.24	0.012404	±2.5	PASS
Band4	1312	NV	50	21.25	0.012409	±2.5	PASS
Band4	1413	NV	-30	-0.77	-0.000444	±2.5	PASS
Band4	1413	NV	-20	-1.15	-0.000664	±2.5	PASS
Band4	1413	NV	-10	-1.07	-0.000618	±2.5	PASS
Band4	1413	NV	0	-1.17	-0.000675	±2.5	PASS
Band4	1413	NV	10	-1.60	-0.000923	±2.5	PASS
Band4	1413	NV	20	-0.92	-0.000531	±2.5	PASS
Band4	1413	NV	30	-0.46	-0.000265	±2.5	PASS
Band4	1413	NV	40	-1.33	-0.000768	±2.5	PASS
Band4	1413	NV	50	-0.39	-0.000225	±2.5	PASS

Band4	1513	NV	-30	-15.62	-0.008912	±2.5	PASS
Band4	1513	NV	-20	-15.80	-0.009015	±2.5	PASS
Band4	1513	NV	-10	-15.70	-0.008958	±2.5	PASS
Band4	1513	NV	0	-16.06	-0.009164	±2.5	PASS
Band4	1513	NV	10	-15.82	-0.009027	±2.5	PASS
Band4	1513	NV	20	-15.75	-0.008987	±2.5	PASS
Band4	1513	NV	30	-15.58	-0.008890	±2.5	PASS
Band4	1513	NV	40	-16.14	-0.009209	±2.5	PASS
Band4	1513	NV	50	-15.39	-0.008781	±2.5	PASS

***The End ***

WCDMA Band V Test Data

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AppendixF: Frequency Stability

AppendixA: RF POWER OUTPUT

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	22.92	38.5	PASS
Band5	4183	22.94	38.5	PASS
Band5	4233	22.79	38.5	PASS



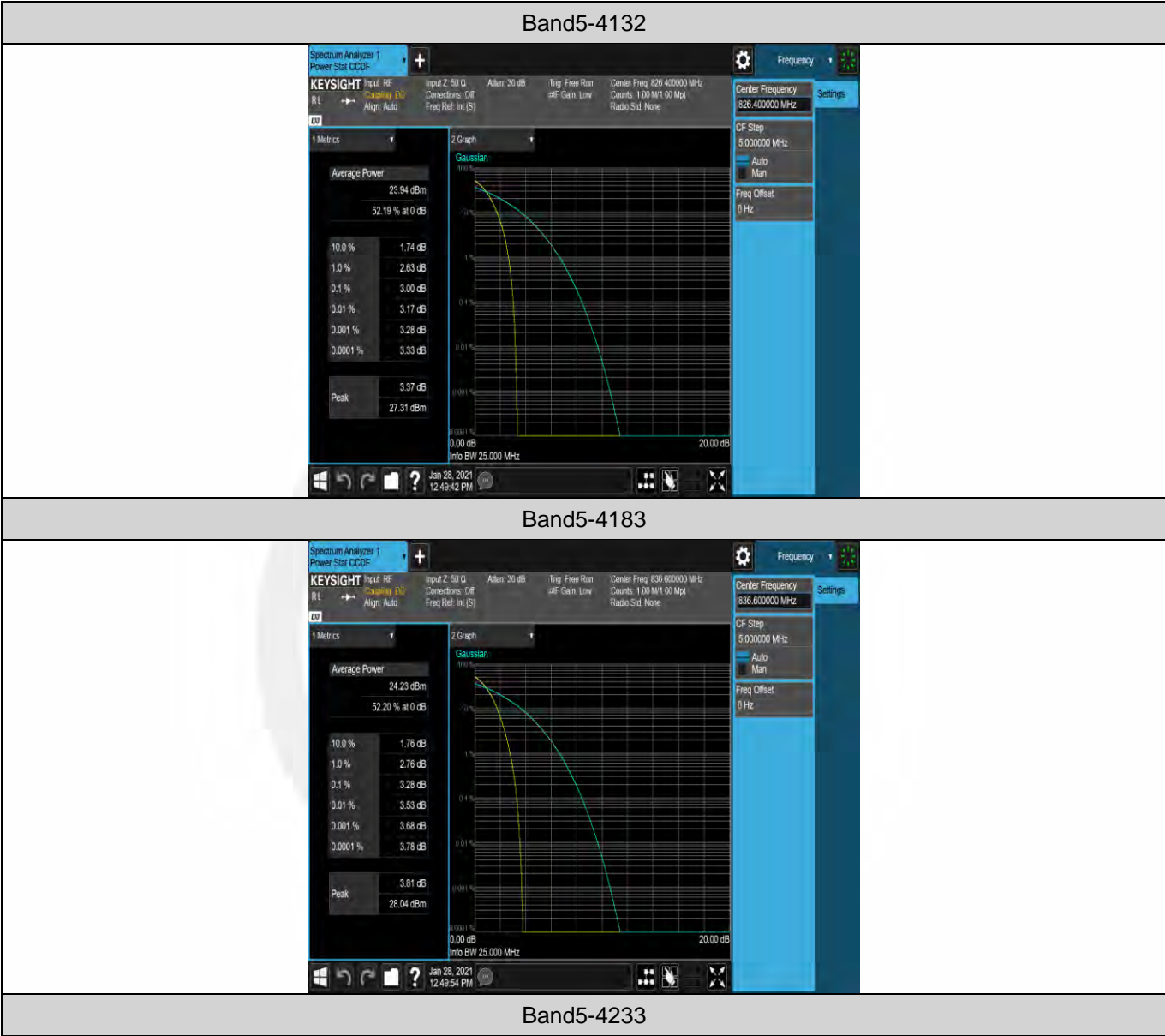
AppendixB:Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	3	13	PASS
Band5	4183	3.28	13	PASS
Band5	4233	3.2	13	PASS



Test Graphs





Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band5	4132	4.1243	4.706	---	PASS
Band5	4183	4.1320	4.722	---	PASS
Band5	4233	4.1378	4.710	---	PASS



Test Graphs

Band5-4132



Band5-4183



Band5-4233



AppendixD:Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	824.00	-20.84	-13	PASS
Band5	4233	849.00	-21.47	-13	PASS



Test Graphs



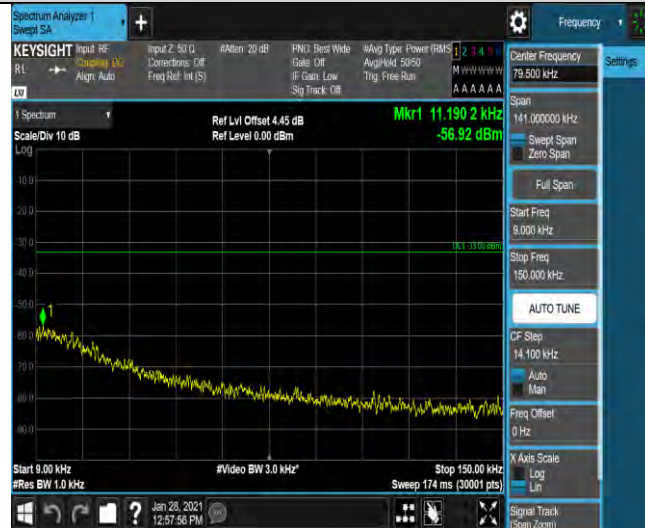
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	0.009~0.15MHz	0.01	-56.92	-33	PASS
Band5	4132	0.15~30MHz	0.3	-54.54	-13	PASS
Band5	4132	30~1000MHz	928.22	-36.74	-13	PASS
Band5	4132	1000~3000MHz	2624.07	-36.99	-13	PASS
Band5	4132	3000~10000MHz	3821.57	-50.62	-13	PASS
Band5	4132	10000~18000MHz	13605.6	-52.14	-13	PASS
Band5	4183	0.009~0.15MHz	0.01	-57.05	-33	PASS
Band5	4183	0.15~30MHz	0.29	-54.73	-13	PASS
Band5	4183	30~1000MHz	661.37	-36.12	-13	PASS
Band5	4183	1000~3000MHz	2663.53	-36.73	-13	PASS
Band5	4183	3000~10000MHz	3807.1	-50.73	-13	PASS
Band5	4183	10000~18000MHz	13600.27	-52.23	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-54.85	-33	PASS
Band5	4233	0.15~30MHz	0.28	-53.44	-13	PASS
Band5	4233	30~1000MHz	986.29	-35.4	-13	PASS
Band5	4233	1000~3000MHz	2678.13	-37	-13	PASS
Band5	4233	3000~10000MHz	3833.23	-50.66	-13	PASS
Band5	4233	10000~18000MHz	13603.2	-52.38	-13	PASS

Test Graphs

Band5-4132-0.009~0.15MHz



Band5-4132-0.15~30MHz



Band5-4132-30~1000MHz



Band5-4132-1000~3000MHz



Band5-4132-3000~10000MHz



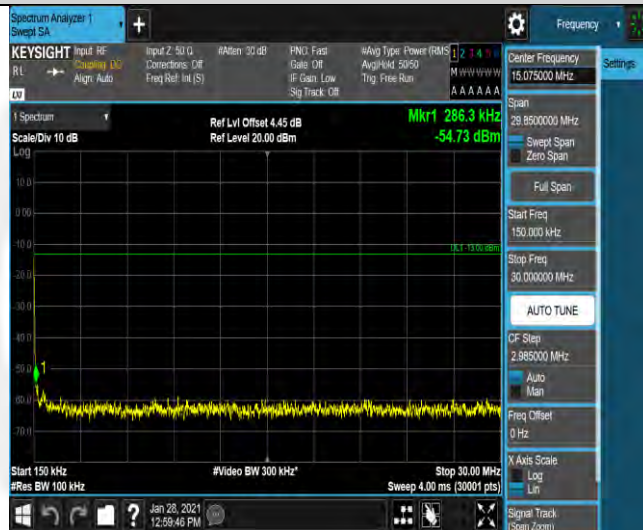
Band5-4132-10000~18000MHz



Band5-4183-0.009~0.15MHz



Band5-4183-0.15~30MHz



Band5-4183-30~1000MHz



Band5-4183-1000~3000MHz



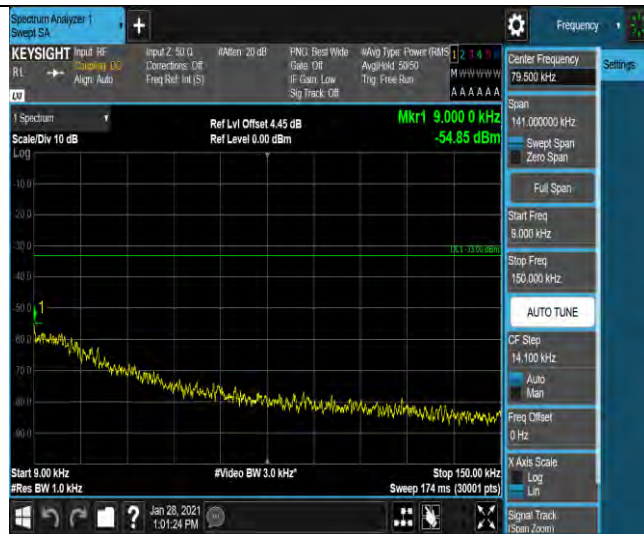
Band5-4183-3000~10000MHz



Band5-4183-10000~18000MHz



Band5-4233-0.009~0.15MHz



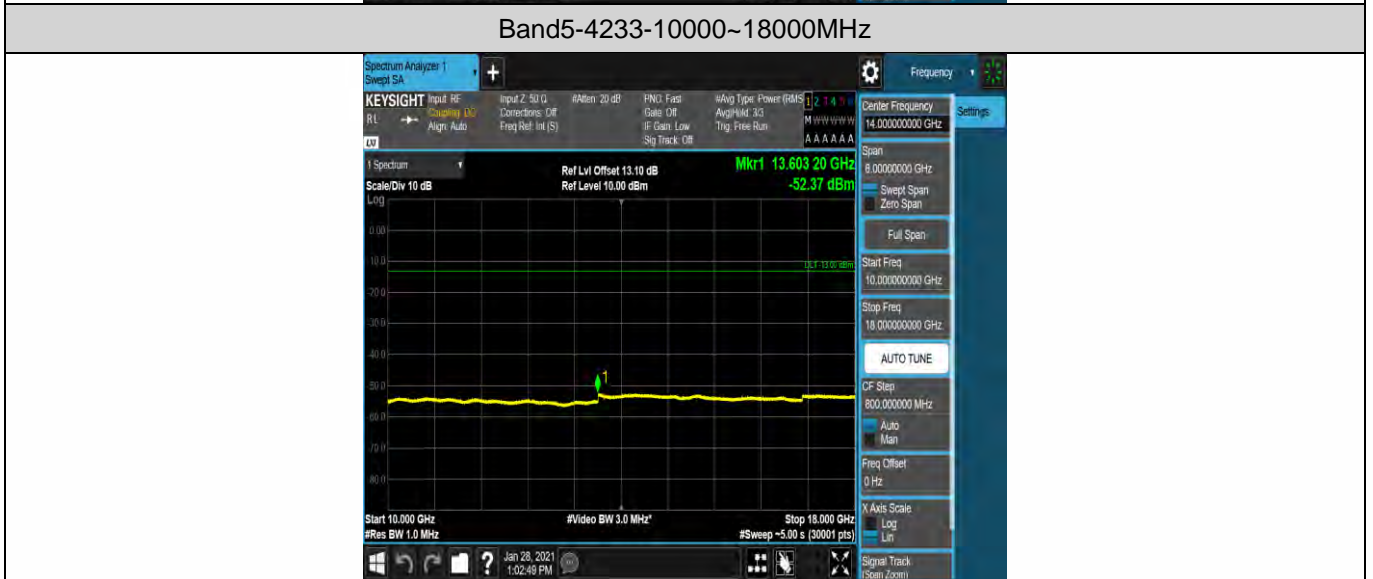
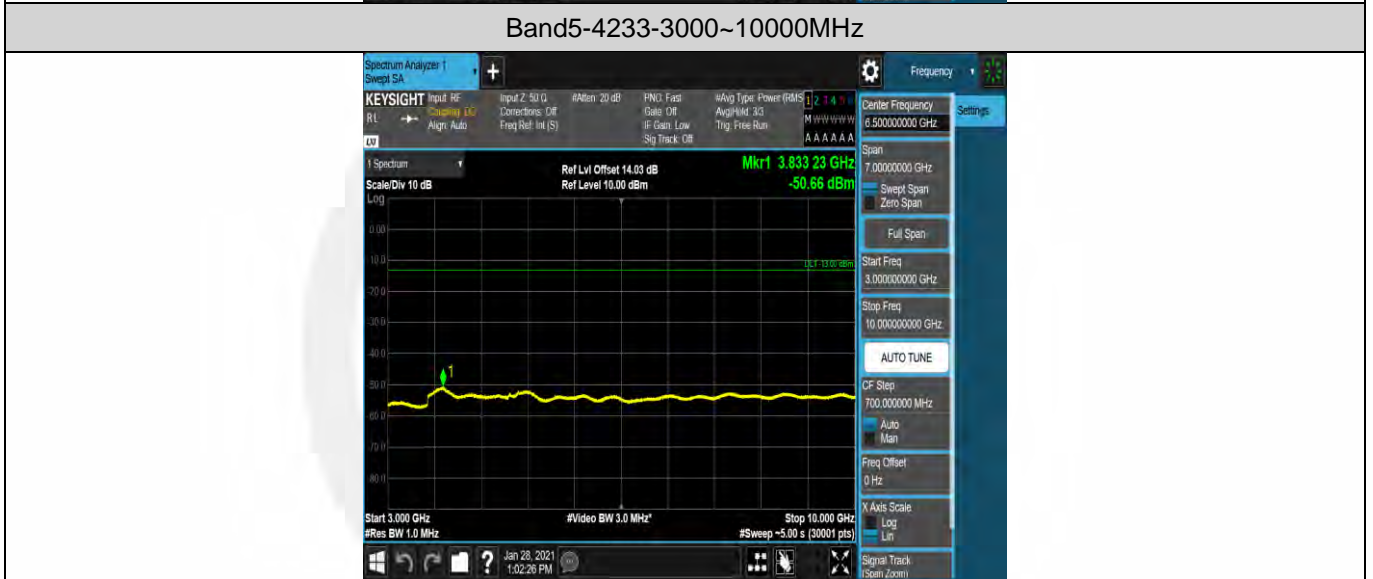
Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~3000MHz



Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	1.03	0.001246	±2.5	PASS
Band5	4132	VN	NT	0.75	0.000908	±2.5	PASS
Band5	4132	VH	NT	1.54	0.001864	±2.5	PASS
Band5	4183	VL	NT	-1.12	-0.001339	±2.5	PASS
Band5	4183	VN	NT	-0.36	-0.000430	±2.5	PASS
Band5	4183	VH	NT	-0.86	-0.001028	±2.5	PASS
Band5	4233	VL	NT	-2.60	-0.003071	±2.5	PASS
Band5	4233	VN	NT	-3.03	-0.003579	±2.5	PASS
Band5	4233	VH	NT	-2.47	-0.002918	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	1.18	0.001428	±2.5	PASS
Band5	4132	NV	-20	1.12	0.001355	±2.5	PASS
Band5	4132	NV	-10	1.19	0.001440	±2.5	PASS
Band5	4132	NV	0	1.14	0.001379	±2.5	PASS
Band5	4132	NV	10	1.19	0.001440	±2.5	PASS
Band5	4132	NV	20	1.25	0.001513	±2.5	PASS
Band5	4132	NV	30	1.39	0.001682	±2.5	PASS
Band5	4132	NV	40	1.07	0.001295	±2.5	PASS
Band5	4132	NV	50	1.69	0.002045	±2.5	PASS
Band5	4183	NV	-30	-0.61	-0.000729	±2.5	PASS
Band5	4183	NV	-20	-0.98	-0.001171	±2.5	PASS
Band5	4183	NV	-10	-0.81	-0.000968	±2.5	PASS
Band5	4183	NV	0	-1.02	-0.001219	±2.5	PASS
Band5	4183	NV	10	-0.62	-0.000741	±2.5	PASS
Band5	4183	NV	20	-0.64	-0.000765	±2.5	PASS
Band5	4183	NV	30	-1.18	-0.001410	±2.5	PASS
Band5	4183	NV	40	-0.08	-0.000096	±2.5	PASS
Band5	4183	NV	50	-0.25	-0.000299	±2.5	PASS

Band5	4233	NV	-30	-2.95	-0.003485	±2.5	PASS
Band5	4233	NV	-20	-2.70	-0.003189	±2.5	PASS
Band5	4233	NV	-10	-2.83	-0.003343	±2.5	PASS
Band5	4233	NV	0	-2.88	-0.003402	±2.5	PASS
Band5	4233	NV	10	-3.11	-0.003674	±2.5	PASS
Band5	4233	NV	20	-2.39	-0.002823	±2.5	PASS
Band5	4233	NV	30	-2.91	-0.003437	±2.5	PASS
Band5	4233	NV	40	-2.61	-0.003083	±2.5	PASS
Band5	4233	NV	50	-2.98	-0.003520	±2.5	PASS

***The End ***