Appendix B: Test Results of WCDMA

APPENDIX A: EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA 2
Test Result 2
APPENDIX B: PEAK-TO-AVERAGE RATIO 3
Test Result 3
Test Graphs 4
APPENDIX C: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 6
Test Result 6
Test Graphs 7
APPENDIX D: BAND EDGE 9
Test Result 9
Test Graphs 10
APPENDIX E: CONDUCTED SPURIOUS EMISSION 12
Test Result 12
Test Graphs 13
APPENDIX F: FREQUENCY STABILITY 26
Test Result 26

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	22.72	33	PASS
Band2	9400	22.71	33	PASS
Band2	9538	22.82	33	PASS
Band5	4132	22.98	38.5	PASS
Band5	4182	22.83	38.5	PASS
Band5	4233	22.96	38.5	PASS

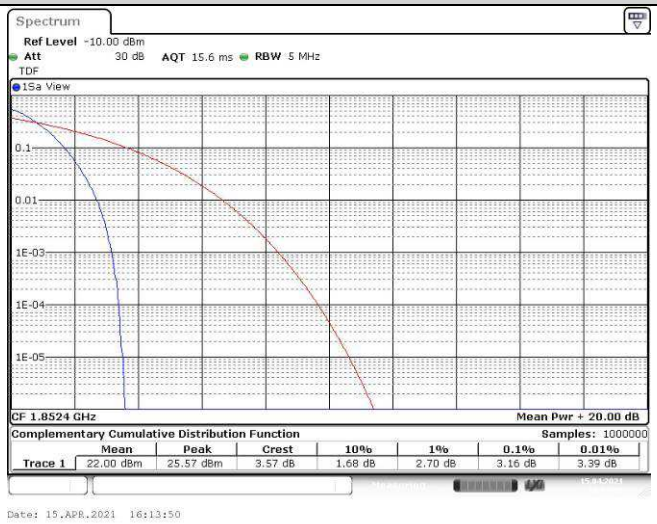
Appendix B: Peak-to-Average Ratio

Test Result

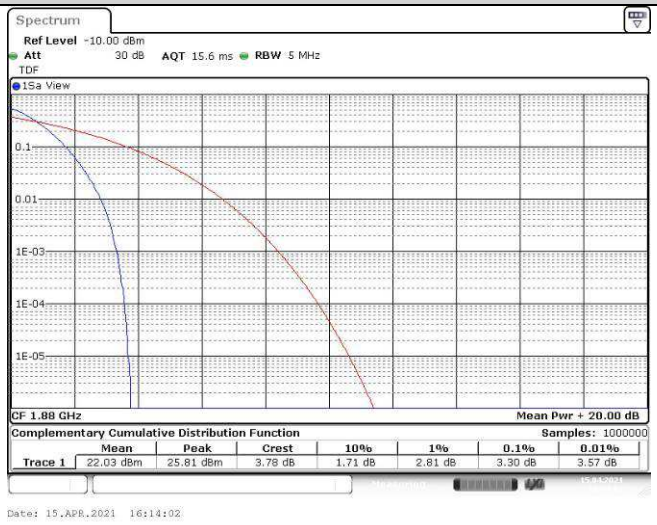
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.16	13	PASS
Band2	9400	3.3	13	PASS
Band2	9538	3.28	13	PASS
Band5	4132	3.1	13	PASS
Band5	4182	3.16	13	PASS
Band5	4233	3.25	13	PASS

Test Graphs

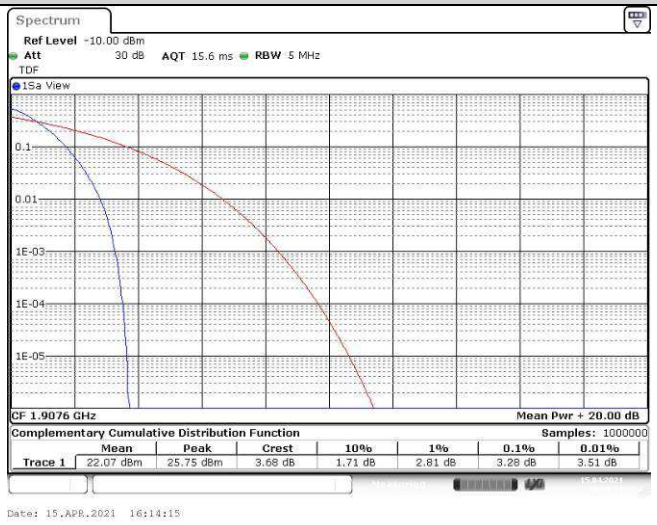
Band2-9262



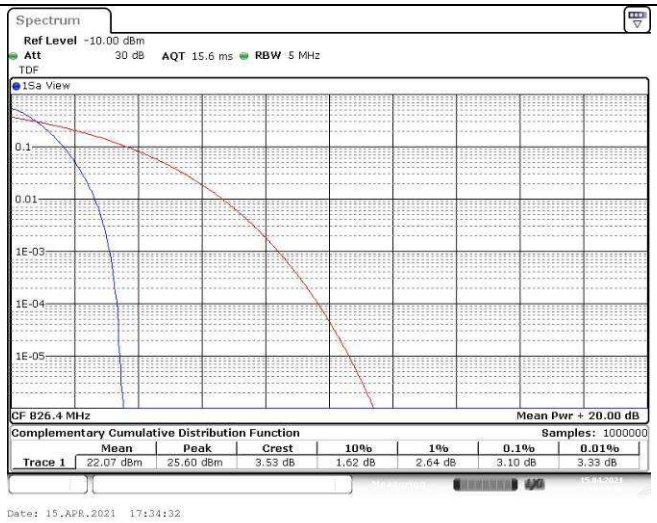
Band2-9400



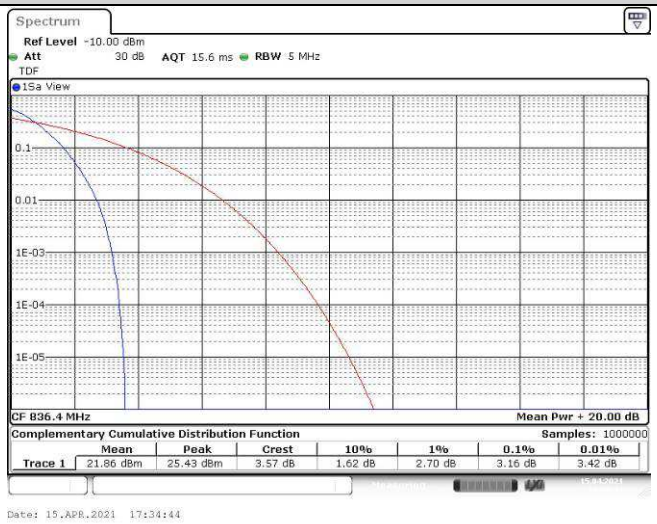
Band2-9538



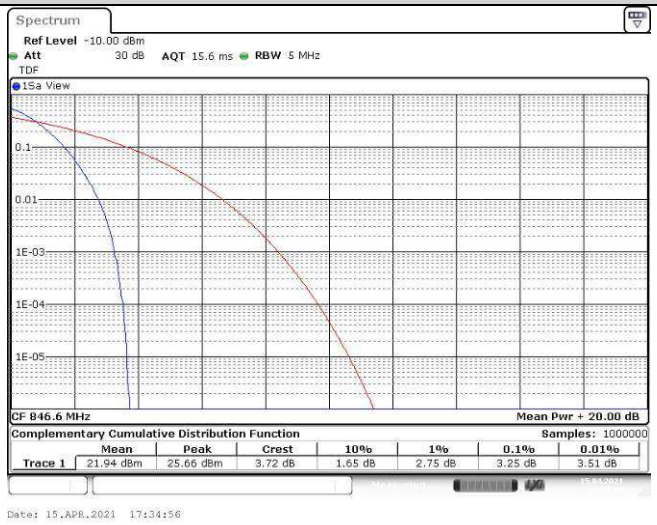
Band5-4132



Band5-4182



Band5-4233



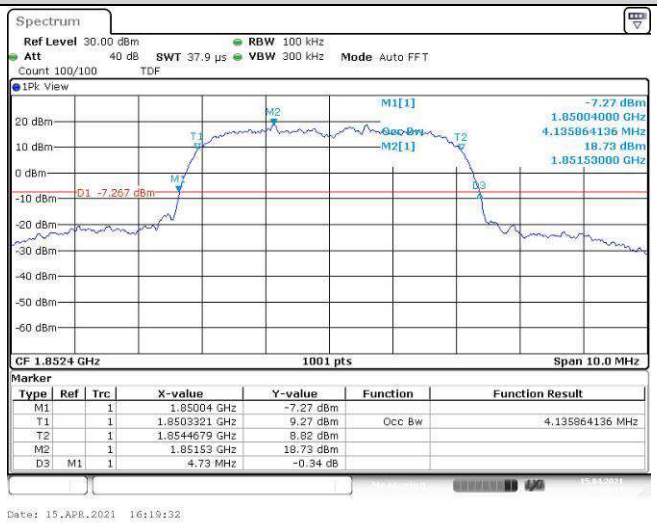
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

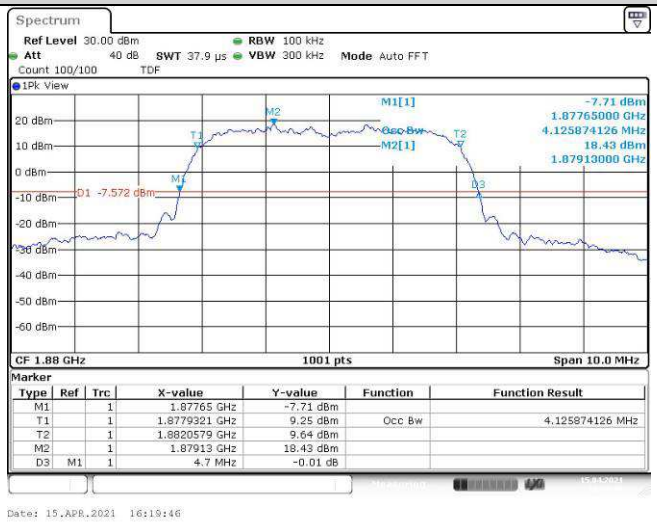
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.136	4.730	---	PASS
Band2	9400	4.126	4.700	---	PASS
Band2	9538	4.136	4.700	---	PASS
Band5	4132	4.146	4.760	---	PASS
Band5	4182	4.156	4.730	---	PASS
Band5	4233	4.146	4.730	---	PASS

Test Graphs

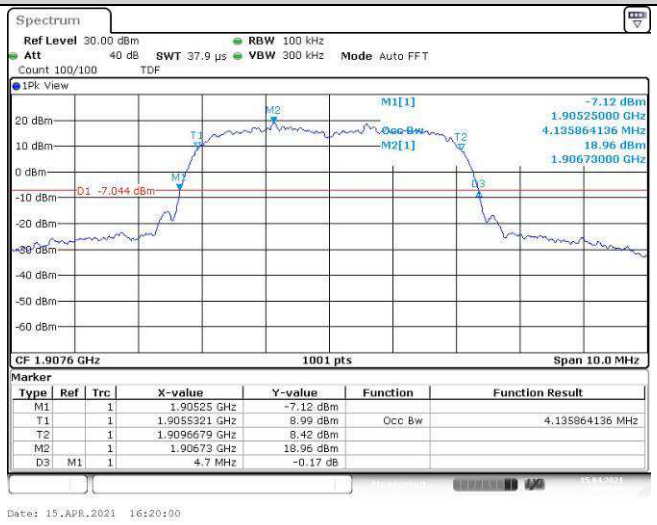
Band2-9262



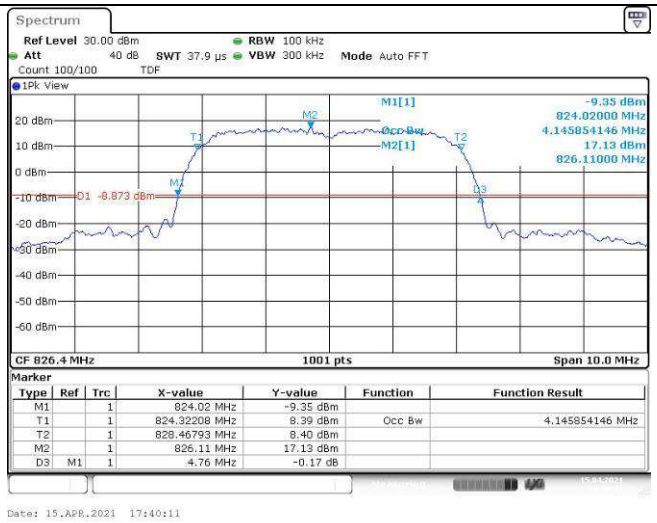
Band2-9400



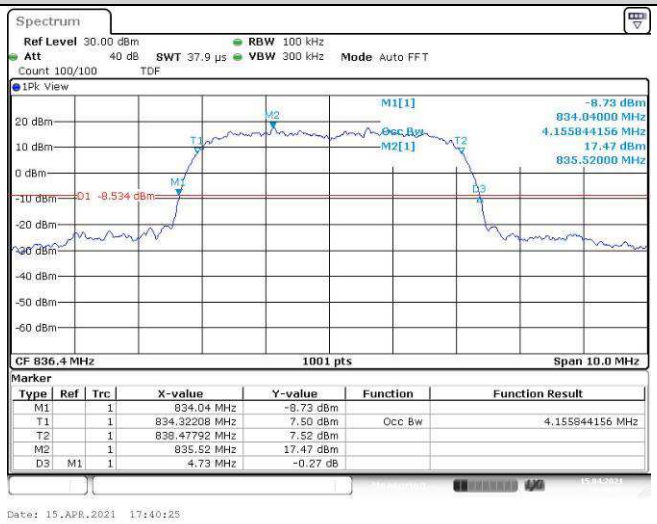
Band2-9538



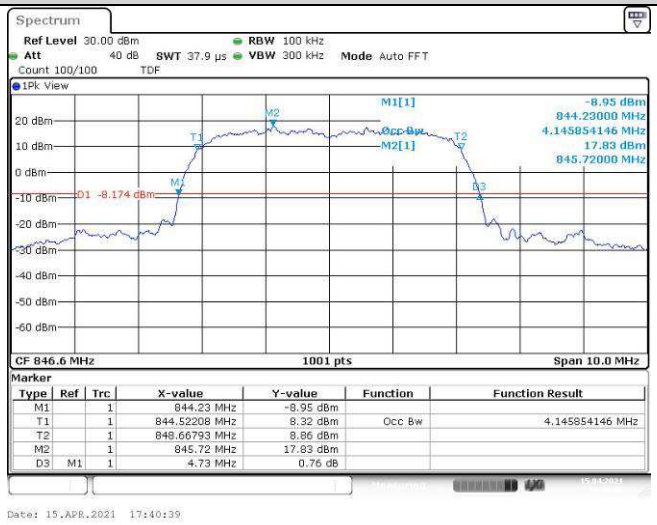
Band5-4132



Band5-4182



Band5-4233



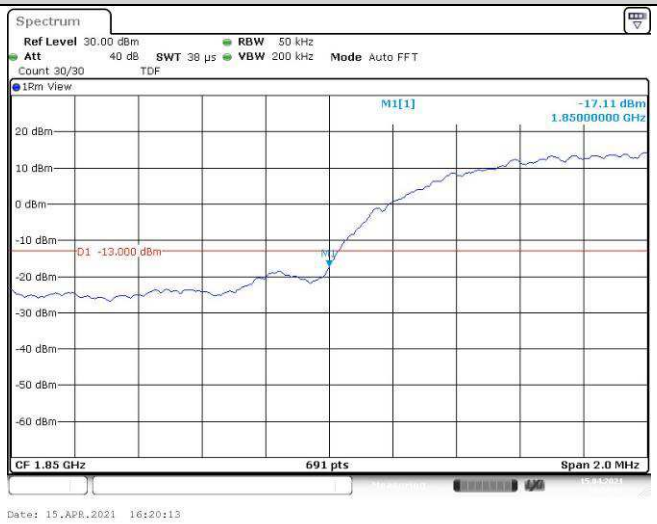
Appendix D: Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-17.11	-13	PASS
Band2	9538	1910.17	-18.75	-13	PASS
Band5	4132	824.00	-16.26	-13	PASS
Band5	4233	849.00	-17.79	-13	PASS

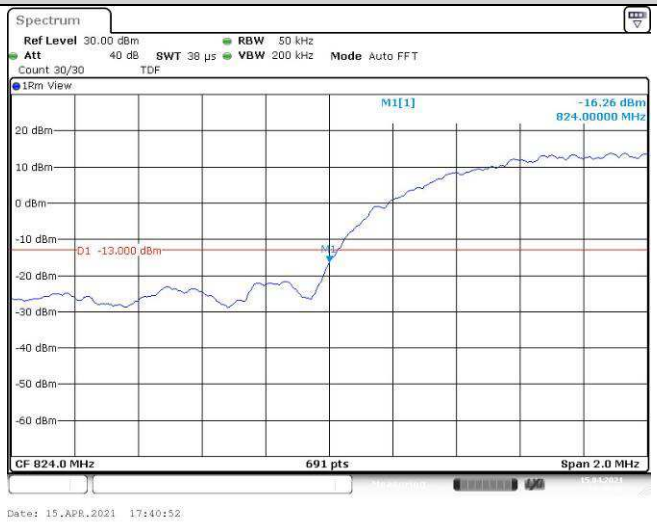
Test Graphs

Band2-9262



Band2-9538

Band5-4132



Band5-4233

Spectrum
Ref Level 30.00 dBm
RBW 50 kHz
Att 40 dB
SWT 38 µs
VBW 200 kHz
Mode Auto FFT
Count 30/30
TDF
1Rm View
M1[1]
-17.79 dBm
849.00000 MHz
20 dBm
10 dBm
0 dBm
-10 dBm
D1 -13.000 dBm
M1
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 849.0 MHz
691 pts
Span 2.0 MHz
Date: 15.APR.2021 17:41:05

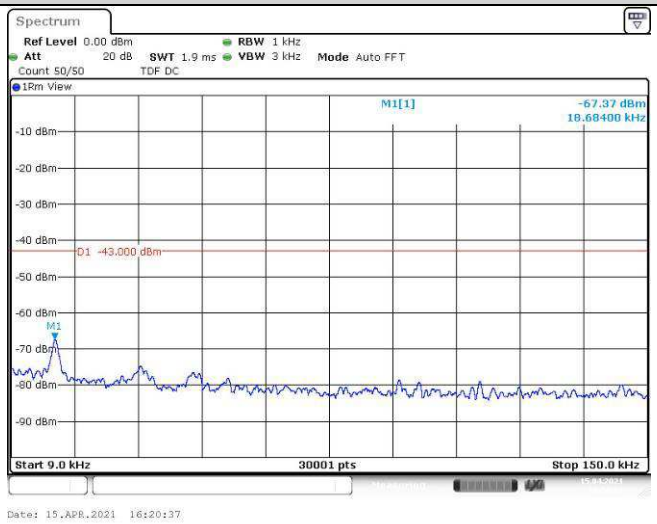
Appendix E: Conducted Spurious Emission

Test Result

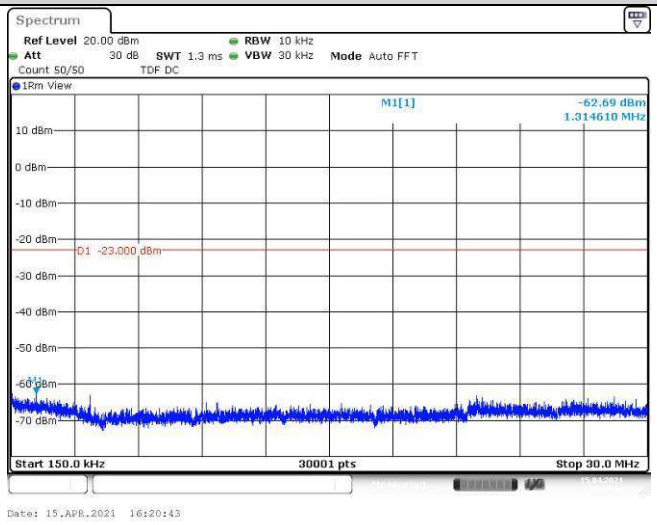
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.02	-67.37	-43	PASS
Band2	9262	0.15~30MHz	1.31	-62.69	-23	PASS
Band2	9262	30~1000MHz	945.76	-35.41	-13	PASS
Band2	9262	1000~3000MHz	2968.27	-41.8	-13	PASS
Band2	9262	3000~10000MHz	6898.05	-48.45	-13	PASS
Band2	9262	10000~20000MHz	17651.91	-38.82	-13	PASS
Band2	9400	0.009~0.15MHz	0.02	-66.83	-43	PASS
Band2	9400	0.15~30MHz	0.16	-63.03	-23	PASS
Band2	9400	30~1000MHz	850.74	-35.7	-13	PASS
Band2	9400	1000~3000MHz	2946.8	-41.8	-13	PASS
Band2	9400	3000~10000MHz	6885.22	-48.55	-13	PASS
Band2	9400	10000~20000MHz	17636.58	-38.88	-13	PASS
Band2	9538	0.009~0.15MHz	0.02	-67.77	-43	PASS
Band2	9538	0.15~30MHz	0.31	-62.3	-23	PASS
Band2	9538	30~1000MHz	991.61	-35.66	-13	PASS
Band2	9538	1000~3000MHz	2955.8	-41.92	-13	PASS
Band2	9538	3000~10000MHz	6900.62	-48.51	-13	PASS
Band2	9538	10000~20000MHz	17639.91	-38.74	-13	PASS
Band5	4132	0.009~0.15MHz	0.02	-68.5	-33	PASS
Band5	4132	0.15~30MHz	0.24	-62.95	-13	PASS
Band5	4132	30~1000MHz	970.29	-35.8	-13	PASS
Band5	4132	1000~1500MHz	1448.04	-44.61	-13	PASS
Band5	4132	1500~3000MHz	2973.08	-40.28	-13	PASS
Band5	4132	3000~10000MHz	5750.32	-48.2	-13	PASS
Band5	4132	10000~18000MHz	15597.81	-46.01	-13	PASS
Band5	4182	0.009~0.15MHz	0.02	-67.69	-33	PASS
Band5	4182	0.15~30MHz	0.17	-62.56	-13	PASS
Band5	4182	30~1000MHz	963.4	-36.33	-13	PASS
Band5	4182	1000~1500MHz	1460.81	-44.56	-13	PASS
Band5	4182	1500~3000MHz	2614.44	-40.04	-13	PASS
Band5	4182	3000~10000MHz	5748.93	-47.95	-13	PASS
Band5	4182	10000~18000MHz	15582.88	-46.07	-13	PASS
Band5	4233	0.009~0.15MHz	0.02	-68.09	-33	PASS
Band5	4233	0.15~30MHz	0.27	-62.56	-13	PASS
Band5	4233	30~1000MHz	959.13	-35.99	-13	PASS
Band5	4233	1000~1500MHz	1469.03	-44.55	-13	PASS
Band5	4233	1500~3000MHz	2943.03	-40.15	-13	PASS
Band5	4233	3000~10000MHz	6913.45	-48.53	-13	PASS
Band5	4233	10000~18000MHz	15569.81	-46.18	-13	PASS

Test Graphs

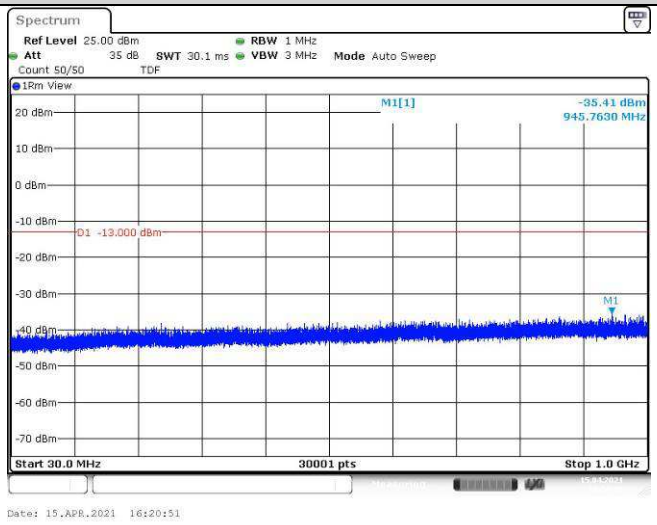
Band2-9262-0.009~0.15MHz



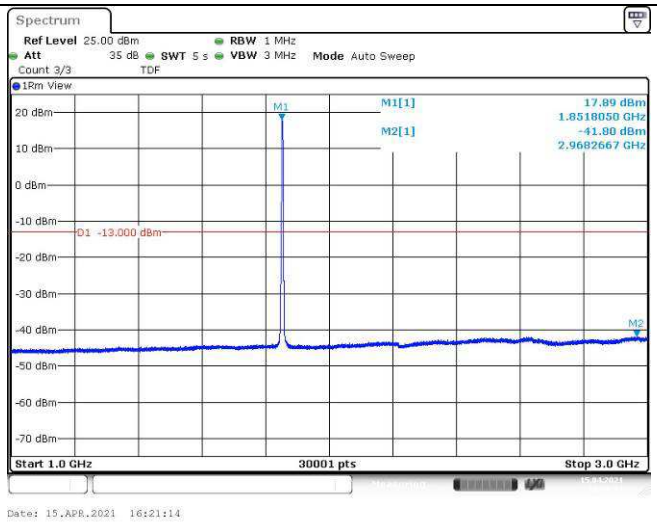
Band2-9262-0.15~30MHz



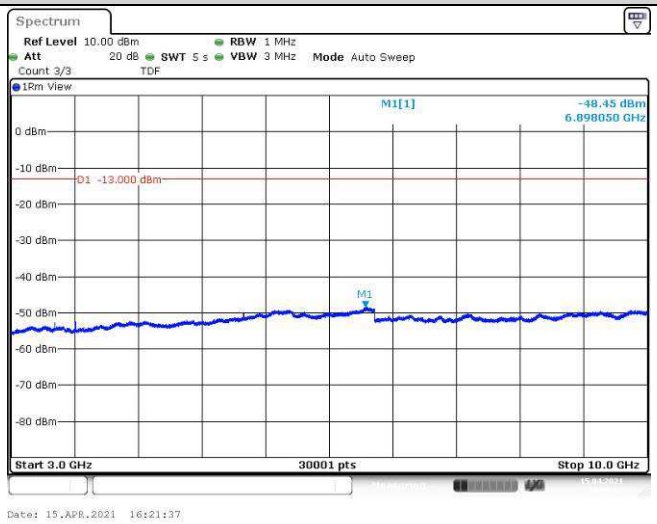
Band2-9262-30~1000MHz



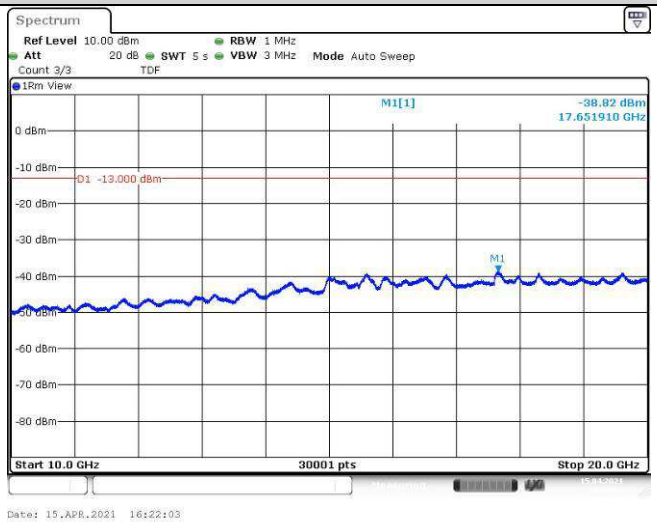
Band2-9262-1000~3000MHz



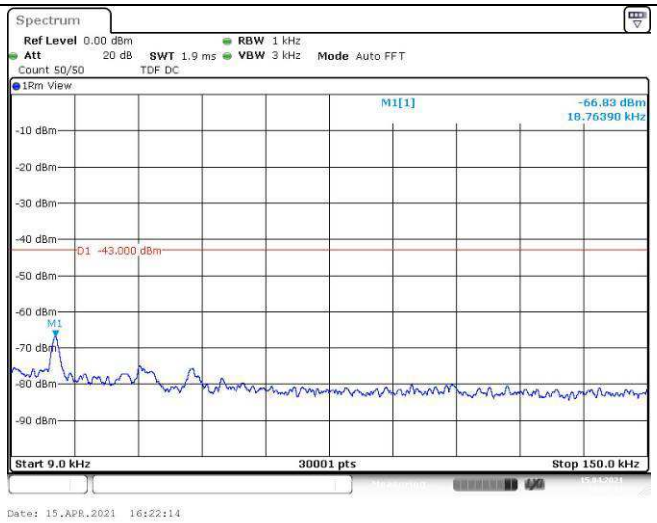
Band2-9262-3000~10000MHz



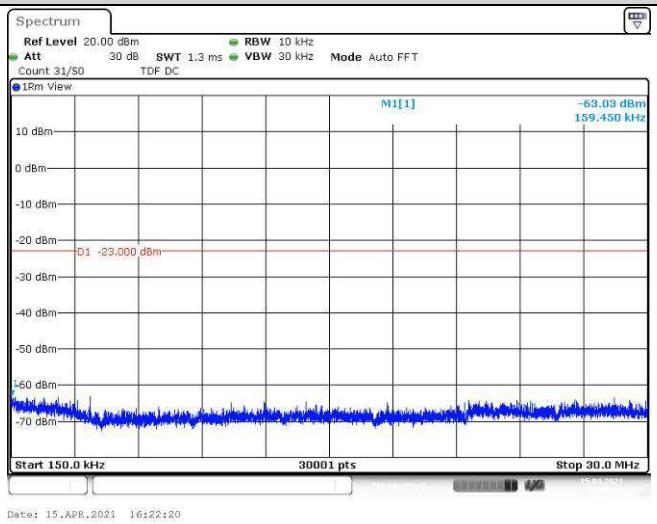
Band2-9262-10000~20000MHz



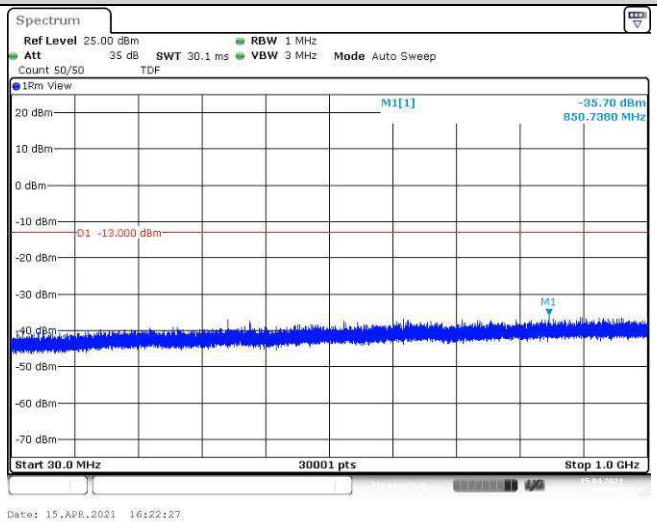
Band2-9400-0.009~0.15MHz



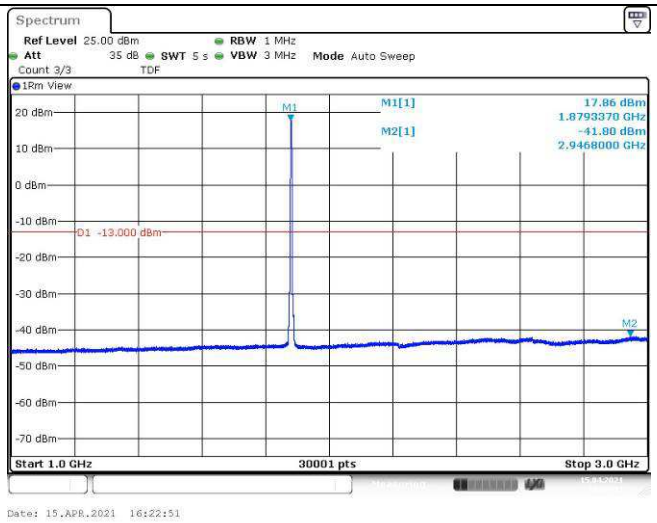
Band2-9400-0.15~30MHz



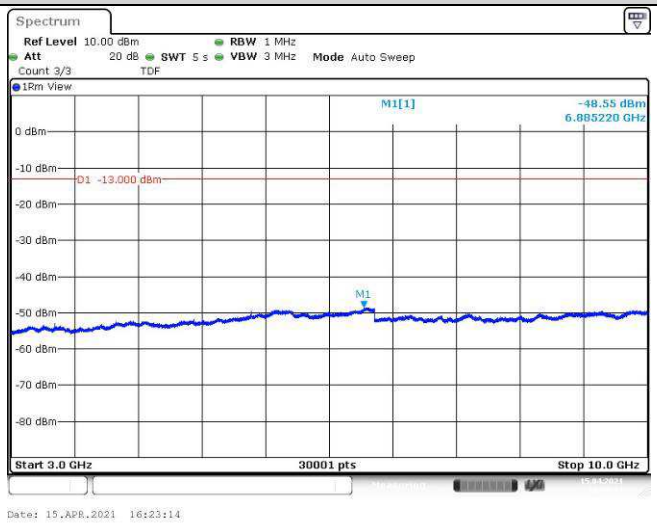
Band2-9400-30~1000MHz



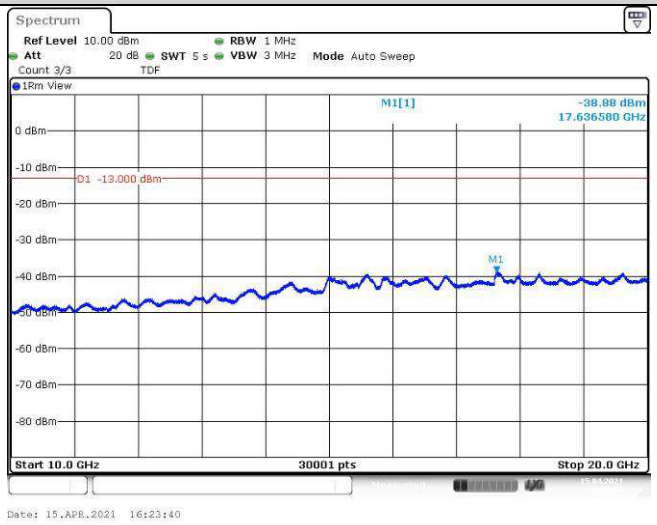
Band2-9400-1000~3000MHz



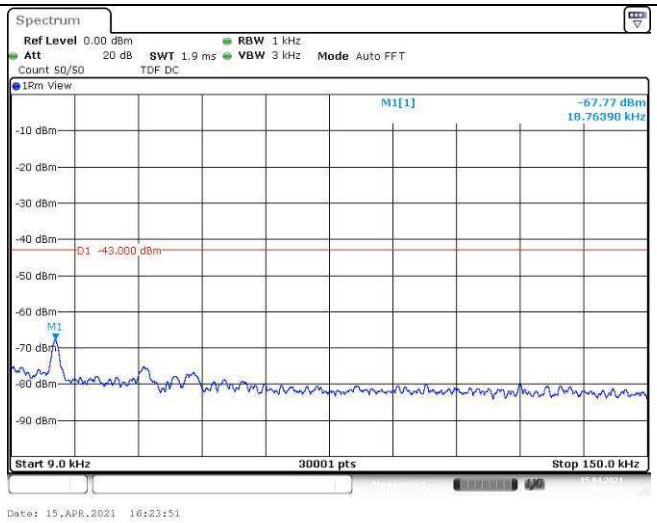
Band2-9400-3000~10000MHz



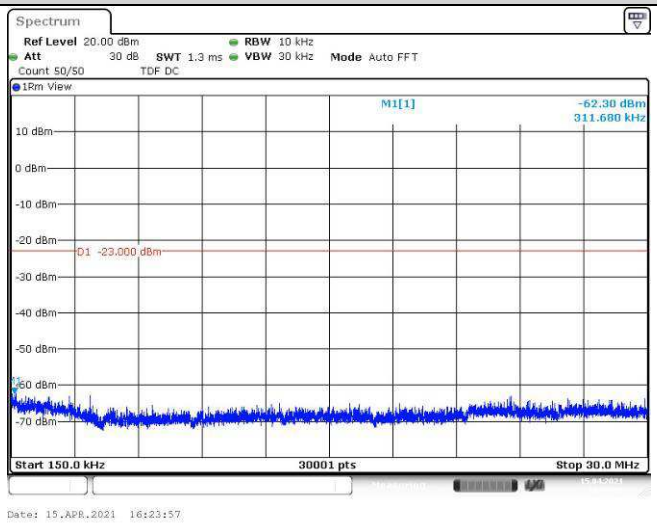
Band2-9400-10000~20000MHz



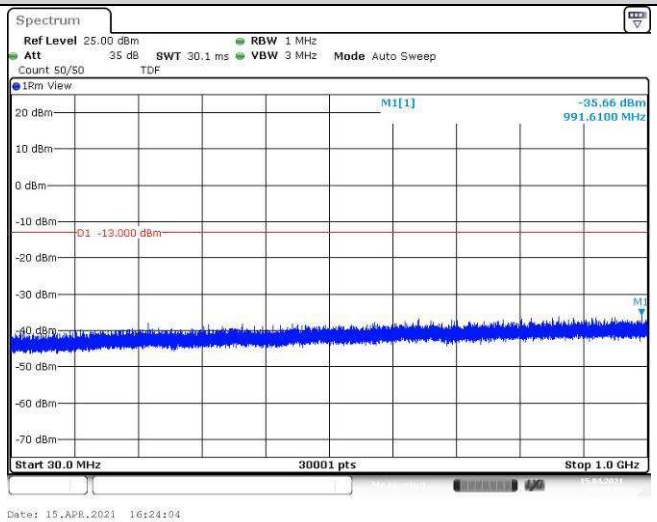
Band2-9538-0.009~0.15MHz



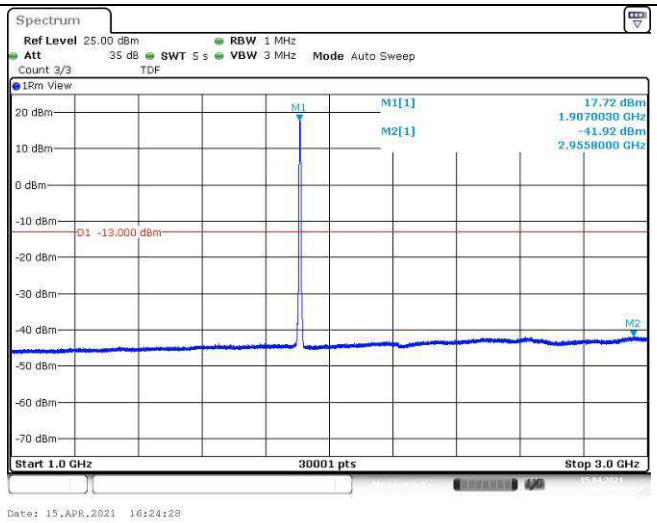
Band2-9538-0.15~30MHz



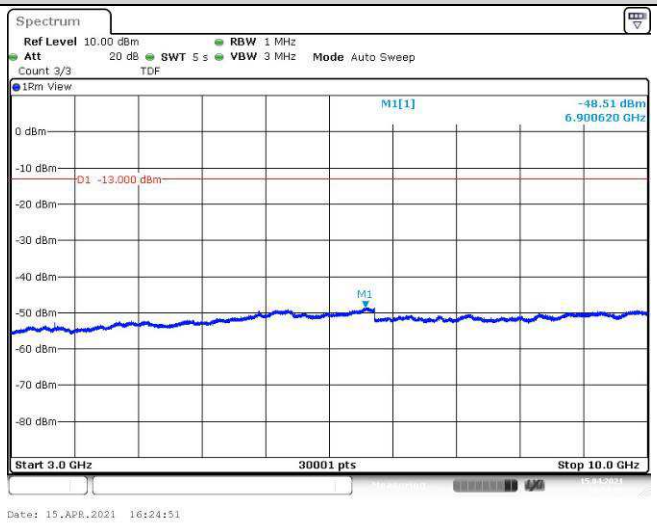
Band2-9538-30~1000MHz



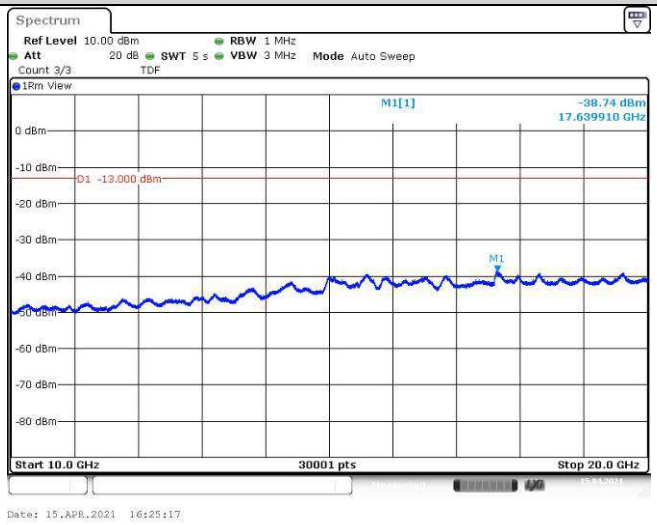
Band2-9538-1000~3000MHz



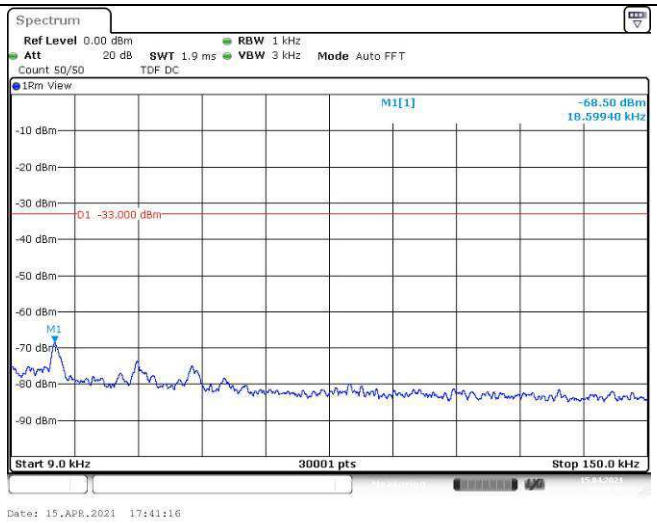
Band2-9538-3000~10000MHz



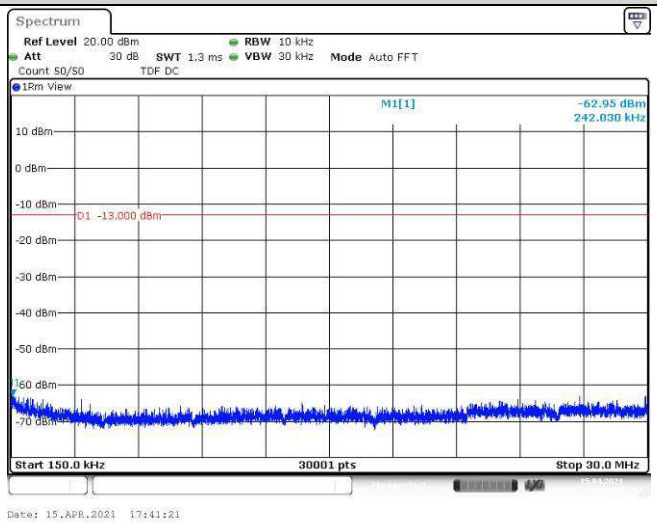
Band2-9538-10000~20000MHz



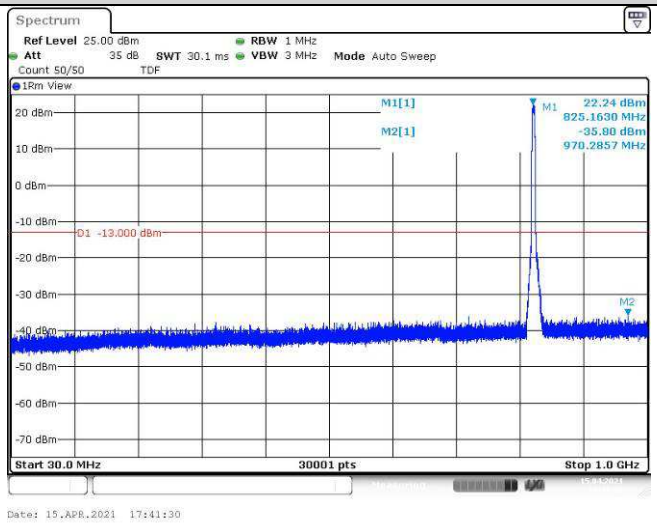
Band5-4132-0.009~0.15MHz



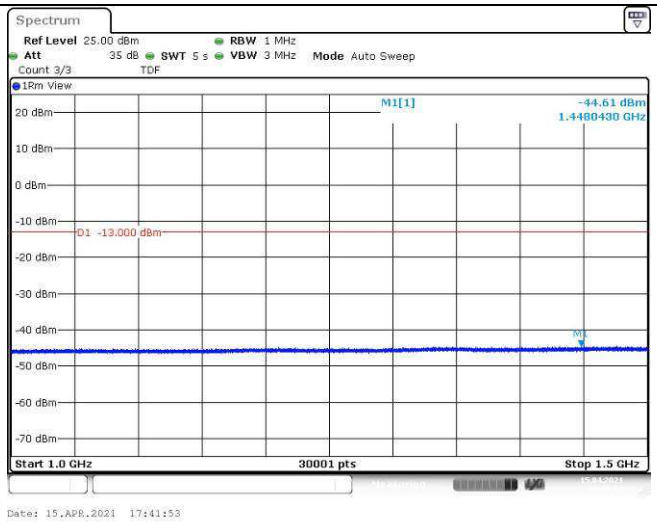
Band5-4132-0.15~30MHz



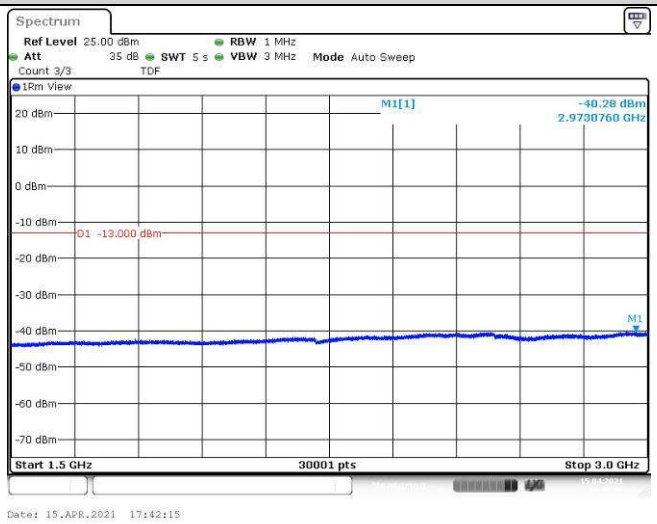
Band5-4132-30~1000MHz



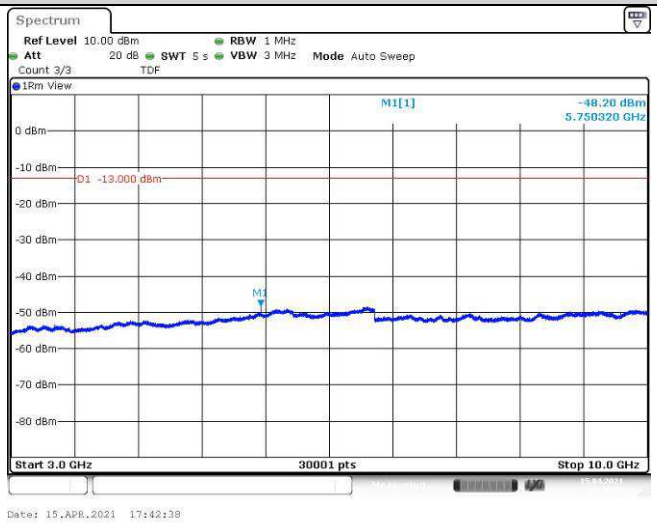
Band5-4132-1000~1500MHz



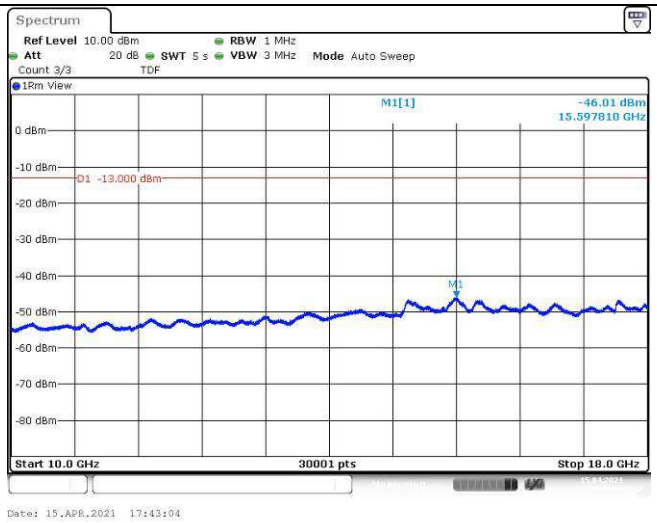
Band5-4132-1500~3000MHz



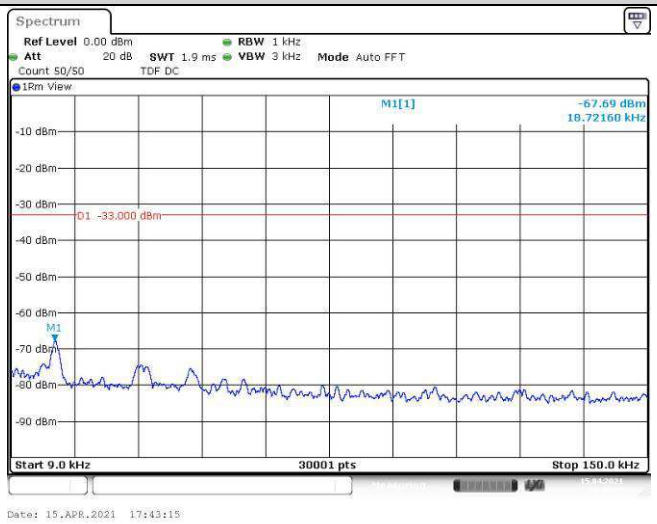
Band5-4132-3000~10000MHz



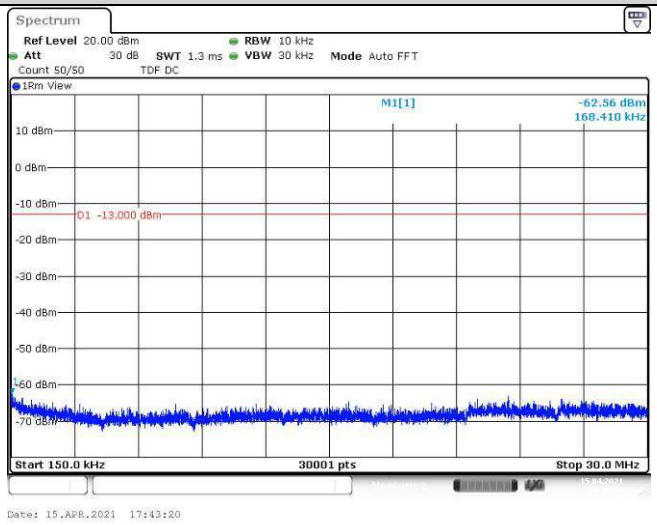
Band5-4132-10000~18000MHz



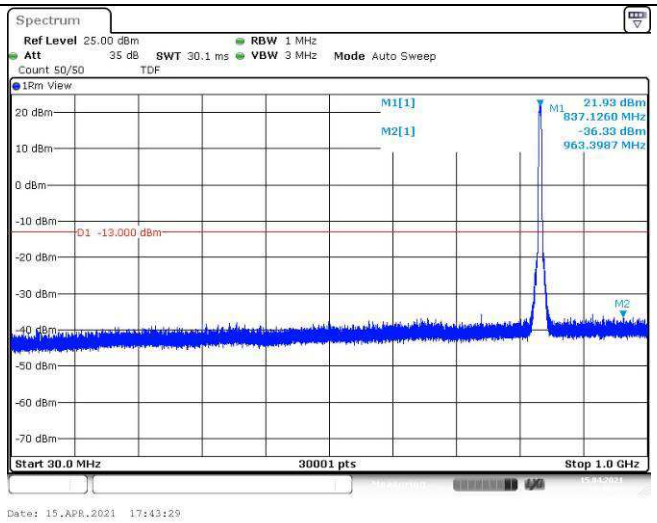
Band5-4182-0.009~0.15MHz



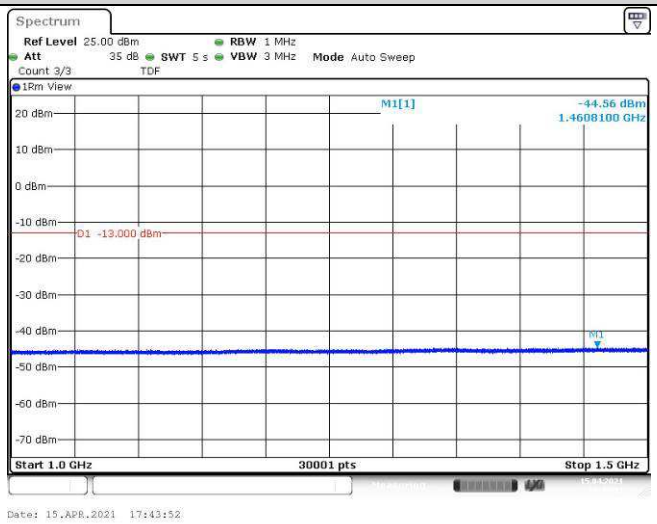
Band5-4182-0.15~30MHz



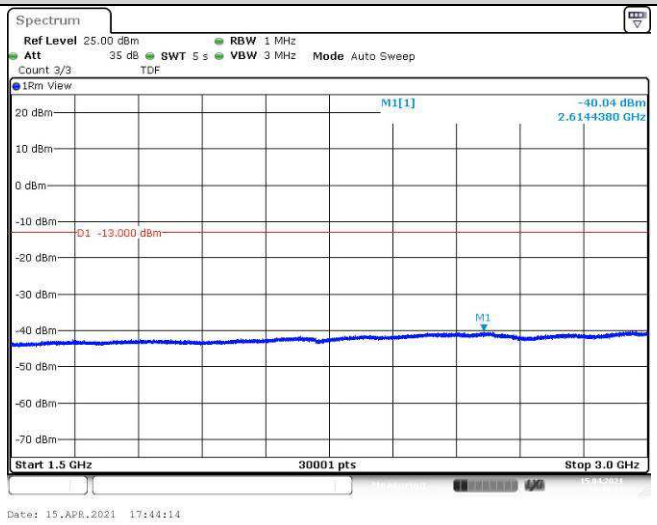
Band5-4182-30~1000MHz



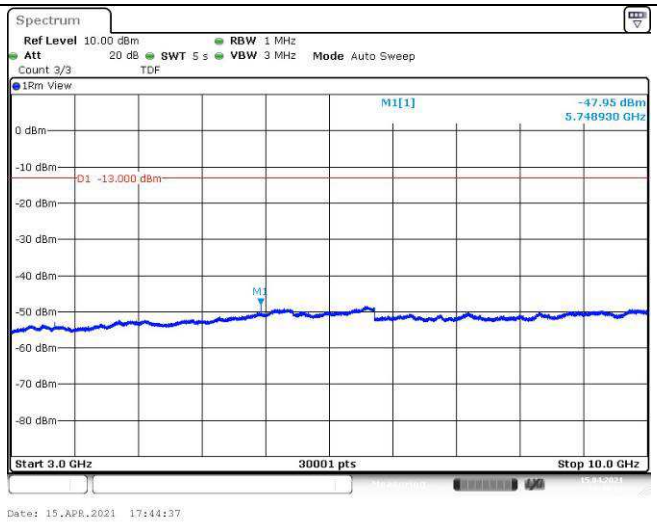
Band5-4182-1000~1500MHz



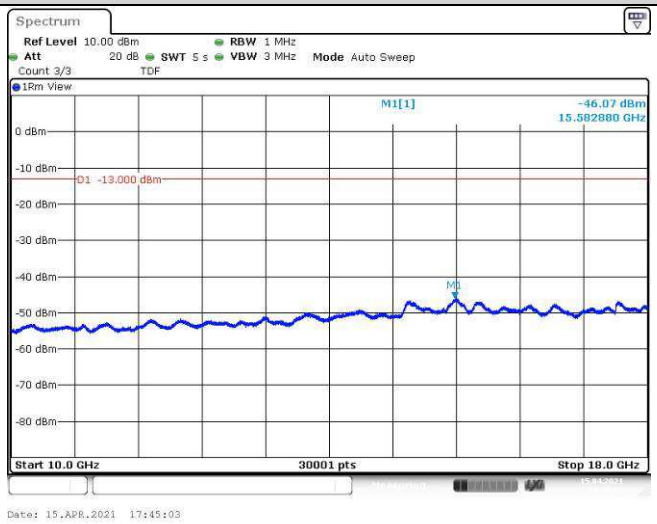
Band5-4182-1500~3000MHz



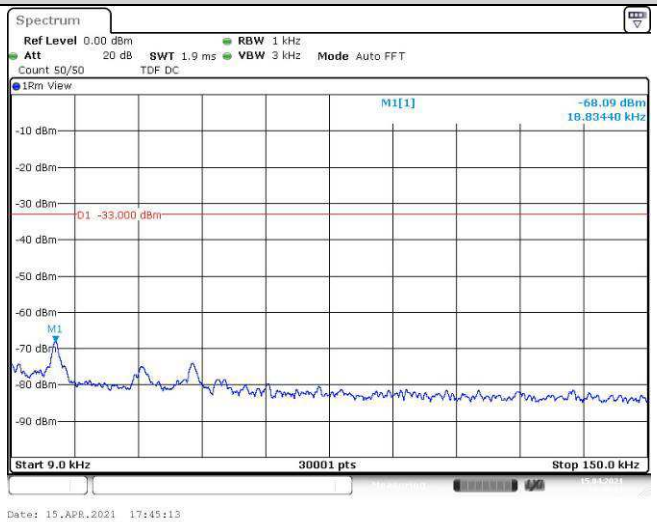
Band5-4182-3000~10000MHz



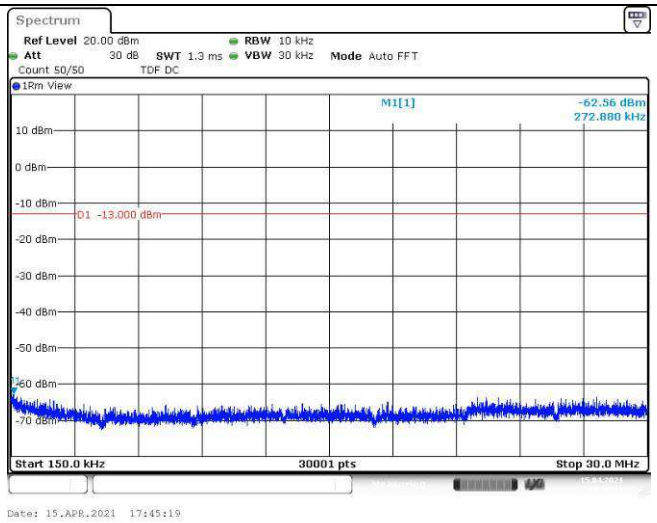
Band5-4182-10000~18000MHz



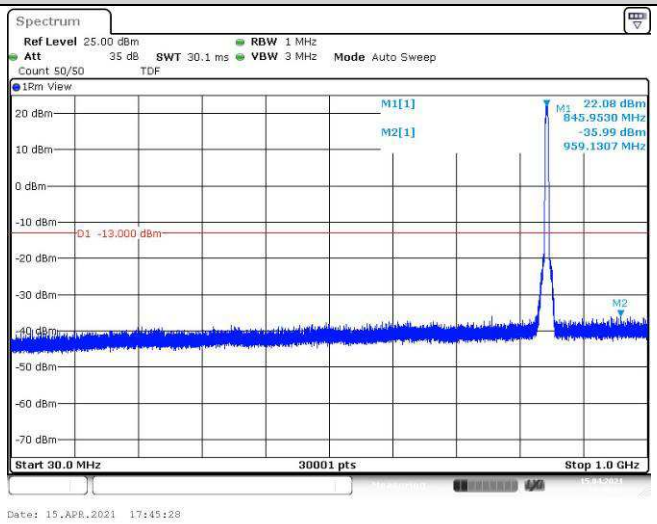
Band5-4233-0.009~0.15MHz



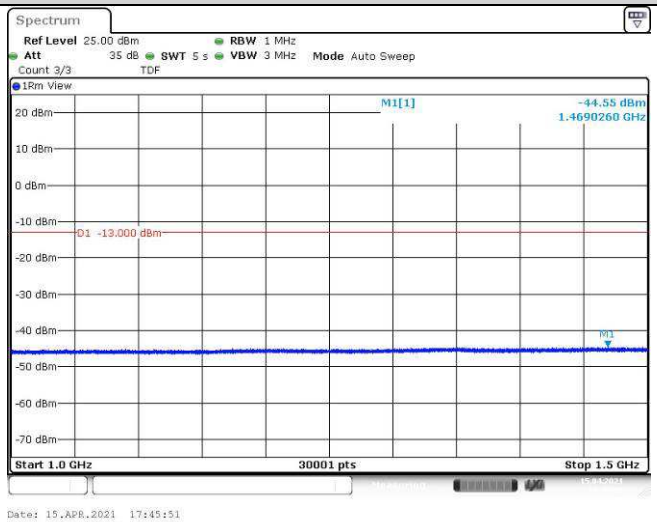
Band5-4233-0.15~30MHz



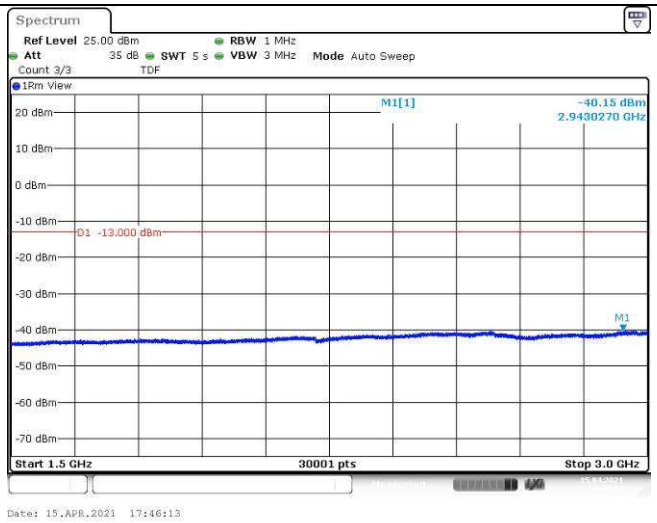
Band5-4233-30~1000MHz



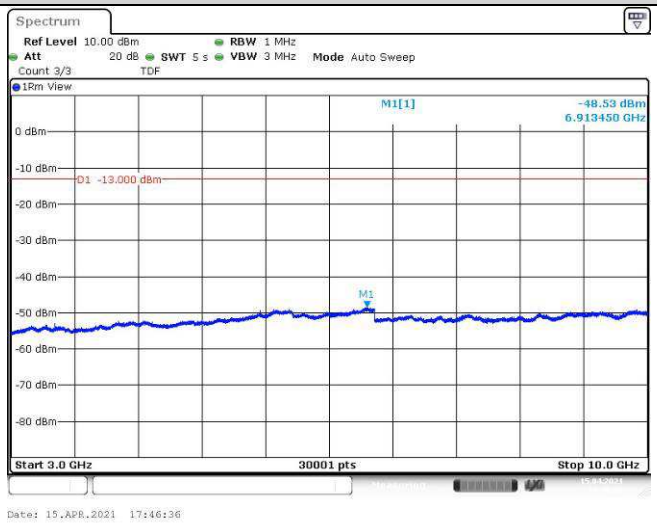
Band5-4233-1000~1500MHz



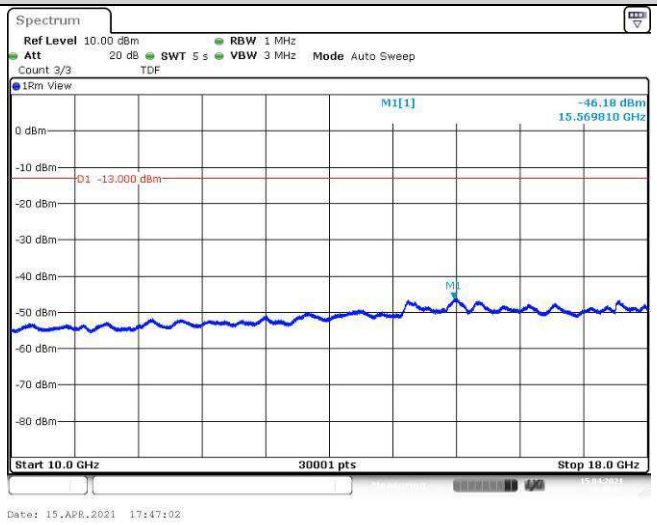
Band5-4233-1500~3000MHz



Band5-4233-3000~10000MHz



Band5-4233-10000~18000MHz



Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	1.12	0.000605	±2.5	PASS
Band2	9262	VN	NT	0.79	0.000426	±2.5	PASS
Band2	9262	VH	NT	0.80	0.000432	±2.5	PASS
Band2	9400	VL	NT	-1.68	-0.000894	±2.5	PASS
Band2	9400	VN	NT	-2.40	-0.001277	±2.5	PASS
Band2	9400	VH	NT	-1.49	-0.000793	±2.5	PASS
Band2	9538	VL	NT	-4.77	-0.002501	±2.5	PASS
Band2	9538	VN	NT	-5.16	-0.002705	±2.5	PASS
Band2	9538	VH	NT	-4.64	-0.002432	±2.5	PASS
Band5	4132	VL	NT	1.39	0.001682	±2.5	PASS
Band5	4132	VN	NT	1.33	0.001609	±2.5	PASS
Band5	4132	VH	NT	1.61	0.001948	±2.5	PASS
Band5	4182	VL	NT	-0.24	-0.000287	±2.5	PASS
Band5	4182	VN	NT	0.16	0.000191	±2.5	PASS
Band5	4182	VH	NT	-0.26	-0.000311	±2.5	PASS
Band5	4233	VL	NT	-2.06	-0.002433	±2.5	PASS
Band5	4233	VN	NT	-1.78	-0.002103	±2.5	PASS
Band5	4233	VH	NT	-1.73	-0.002043	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-10	0.99	0.000534	±2.5	PASS
Band2	9262	NV	0	0.84	0.000453	±2.5	PASS
Band2	9262	NV	10	0.48	0.000259	±2.5	PASS
Band2	9262	NV	20	0.54	0.000292	±2.5	PASS
Band2	9262	NV	30	1.12	0.000605	±2.5	PASS
Band2	9262	NV	40	1.19	0.000642	±2.5	PASS
Band2	9262	NV	50	1.57	0.000848	±2.5	PASS
Band2	9262	NV	60	1.39	0.000750	±2.5	PASS
Band2	9262	NV	65	1.47	0.000794	±2.5	PASS
Band2	9400	NV	-10	-1.27	-0.000676	±2.5	PASS
Band2	9400	NV	0	-1.17	-0.000622	±2.5	PASS
Band2	9400	NV	10	-0.80	-0.000426	±2.5	PASS
Band2	9400	NV	20	-0.99	-0.000527	±2.5	PASS
Band2	9400	NV	30	-1.05	-0.000559	±2.5	PASS
Band2	9400	NV	40	-0.94	-0.000500	±2.5	PASS
Band2	9400	NV	50	-1.31	-0.000697	±2.5	PASS
Band2	9400	NV	60	-0.58	-0.000309	±2.5	PASS
Band2	9400	NV	65	-0.95	-0.000505	±2.5	PASS
Band2	9538	NV	-10	-4.34	-0.002275	±2.5	PASS
Band2	9538	NV	0	-4.95	-0.002595	±2.5	PASS
Band2	9538	NV	10	-4.31	-0.002259	±2.5	PASS
Band2	9538	NV	20	-4.75	-0.002490	±2.5	PASS
Band2	9538	NV	30	-4.43	-0.002322	±2.5	PASS
Band2	9538	NV	40	-4.65	-0.002438	±2.5	PASS
Band2	9538	NV	50	-4.57	-0.002396	±2.5	PASS
Band2	9538	NV	60	-4.64	-0.002432	±2.5	PASS
Band2	9538	NV	65	-5.18	-0.002715	±2.5	PASS
Band5	4132	NV	-10	1.27	0.001537	±2.5	PASS
Band5	4132	NV	0	1.31	0.001585	±2.5	PASS
Band5	4132	NV	10	1.52	0.001839	±2.5	PASS
Band5	4132	NV	20	1.34	0.001621	±2.5	PASS
Band5	4132	NV	30	1.54	0.001864	±2.5	PASS
Band5	4132	NV	40	1.45	0.001755	±2.5	PASS
Band5	4132	NV	50	1.36	0.001646	±2.5	PASS
Band5	4132	NV	60	1.65	0.001997	±2.5	PASS

Band5	4132	NV	65	1.70	0.002057	±2.5	PASS
Band5	4182	NV	-10	-0.11	-0.000132	±2.5	PASS
Band5	4182	NV	0	0.21	0.000251	±2.5	PASS
Band5	4182	NV	10	0.04	0.000048	±2.5	PASS
Band5	4182	NV	20	-0.15	-0.000179	±2.5	PASS
Band5	4182	NV	30	0.06	0.000072	±2.5	PASS
Band5	4182	NV	40	0.15	0.000179	±2.5	PASS
Band5	4182	NV	50	-0.01	-0.000012	±2.5	PASS
Band5	4182	NV	60	-0.08	-0.000096	±2.5	PASS
Band5	4182	NV	65	-0.11	-0.000132	±2.5	PASS
Band5	4233	NV	-10	-1.52	-0.001795	±2.5	PASS
Band5	4233	NV	0	-1.54	-0.001819	±2.5	PASS
Band5	4233	NV	10	-1.84	-0.002173	±2.5	PASS
Band5	4233	NV	20	-1.29	-0.001524	±2.5	PASS
Band5	4233	NV	30	-1.77	-0.002091	±2.5	PASS
Band5	4233	NV	40	-1.72	-0.002032	±2.5	PASS
Band5	4233	NV	50	-1.40	-0.001654	±2.5	PASS
Band5	4233	NV	60	-1.60	-0.001890	±2.5	PASS
Band5	4233	NV	65	-1.57	-0.001854	±2.5	PASS