

APPENDIX C: TEST RESULTS FOR UTRA OPERATING BAND 5

APPENDIX C.1: EFFECTIVE (ISOTROPIC) RADIATED POWER	2
Test Result	2
WCDMA	2
HSDPA.....	2
HSUPA.....	2
APPENDIX C.2: PEAK-TO AVERAGE RATIO.....	3
Test Result	3
Test Graphs.....	4
APPENDIX C.3: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	5
Test Result	5
Test Graphs.....	6
APPENDIX C.4: BAND EDGE.....	7
Test Result	7
Test Graphs.....	8
APPENDIX C.5: CONDUCTED SPURIOUS EMISSIONS.....	9
Test Result	9
General:	9
Test Graphs.....	10
General:	10
APPENDIX C.6: FREQUENCY STABILITY.....	17
Test Result	17

APPENDIX C.1: EFFECTIVE (ISOTROPIC) RADIATED POWER

Test Result

WCDMA

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	22.87	38.5	PASS
Band5	4182	22.88	38.5	PASS
Band5	4233	23.08	38.5	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	1	22.32	38.5	PASS
Band5	4132	2	21.82	38.5	PASS
Band5	4132	3	21.79	38.5	PASS
Band5	4132	4	21.80	38.5	PASS
Band5	4182	1	22.35	38.5	PASS
Band5	4182	2	21.78	38.5	PASS
Band5	4182	3	21.75	38.5	PASS
Band5	4182	4	21.77	38.5	PASS
Band5	4233	1	22.50	38.5	PASS
Band5	4233	2	21.91	38.5	PASS
Band5	4233	3	21.94	38.5	PASS
Band5	4233	4	21.95	38.5	PASS

HSUPA

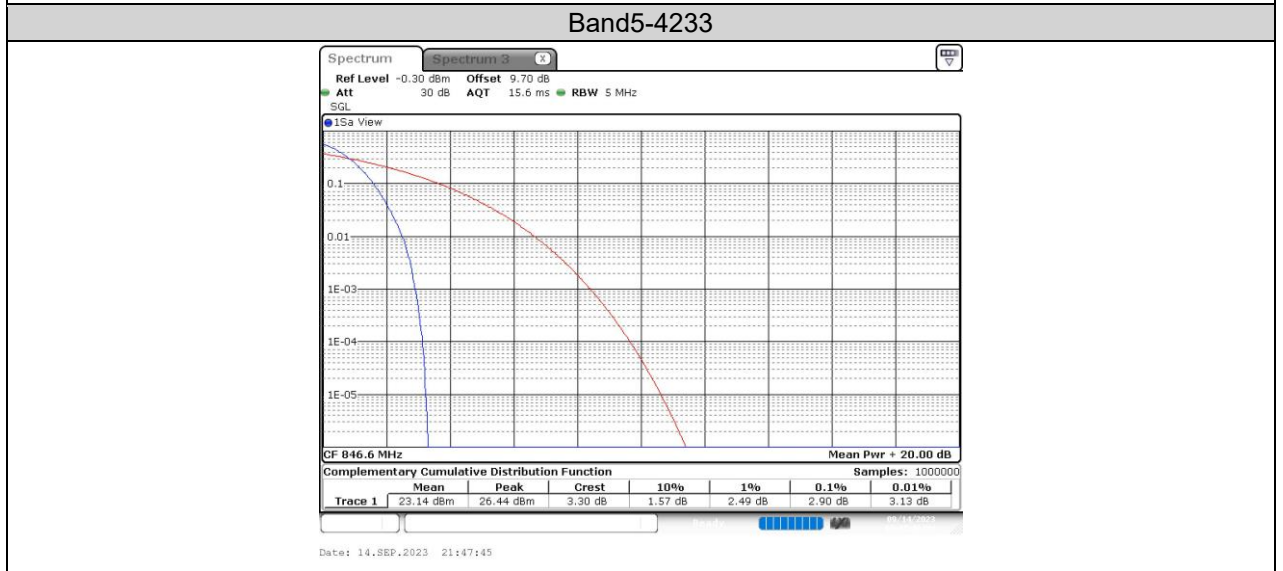
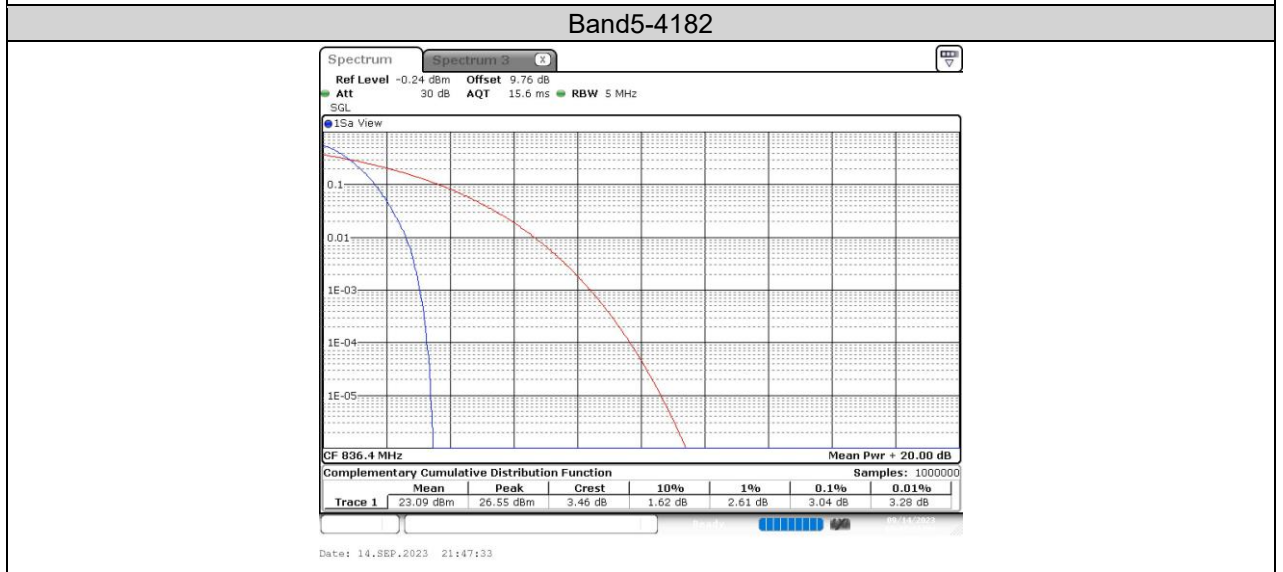
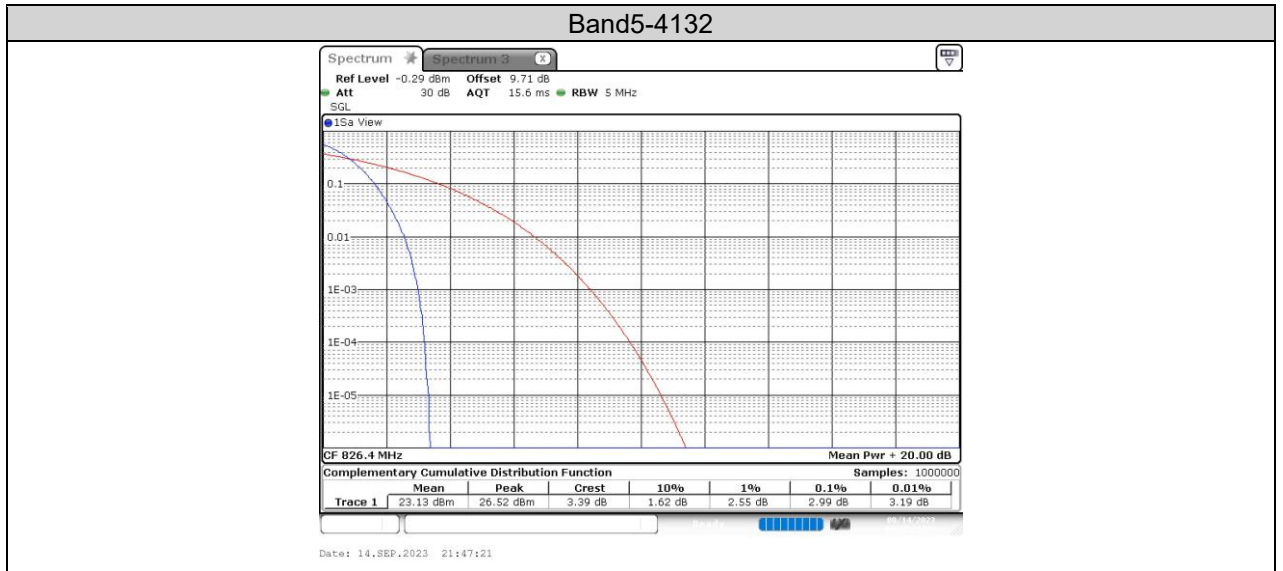
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	1	21.80	38.5	PASS
Band5	4132	2	21.26	38.5	PASS
Band5	4132	3	20.27	38.5	PASS
Band5	4132	4	21.11	38.5	PASS
Band5	4132	5	22.15	38.5	PASS
Band5	4182	1	21.58	38.5	PASS
Band5	4182	2	21.02	38.5	PASS
Band5	4182	3	20.99	38.5	PASS
Band5	4182	4	21.26	38.5	PASS
Band5	4182	5	22.19	38.5	PASS
Band5	4233	1	21.86	38.5	PASS
Band5	4233	2	21.32	38.5	PASS
Band5	4233	3	21.19	38.5	PASS
Band5	4233	4	21.47	38.5	PASS
Band5	4233	5	22.31	38.5	PASS

APPENDIX C.2: PEAK-TO AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	2.99	13	PASS
Band5	4182	3.04	13	PASS
Band5	4233	2.9	13	PASS

Test Graphs

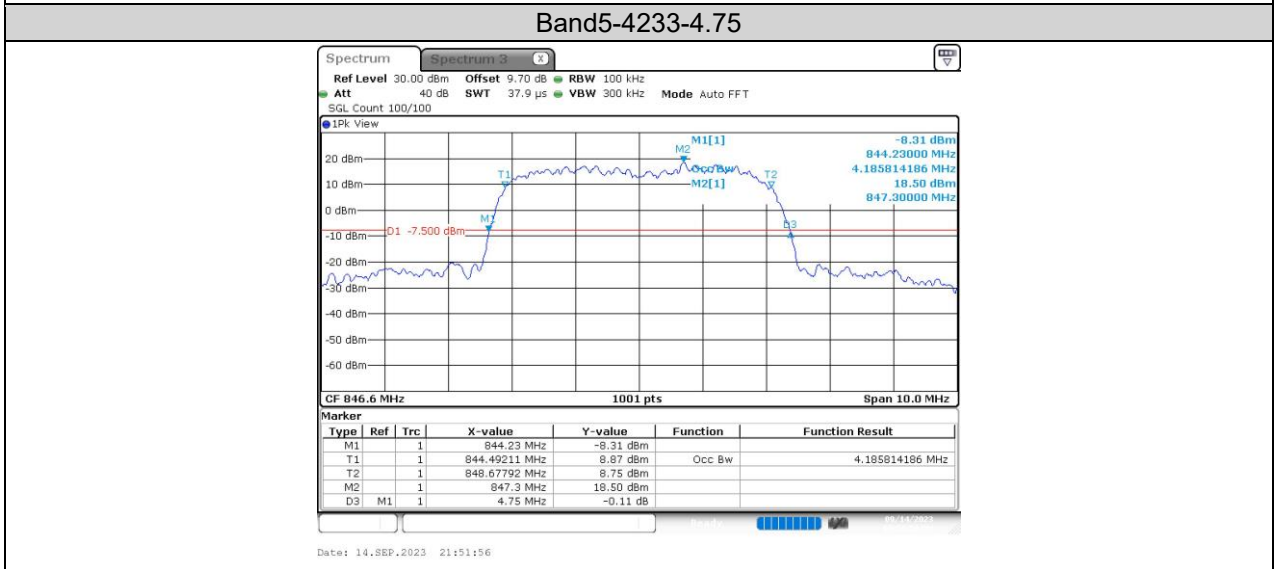
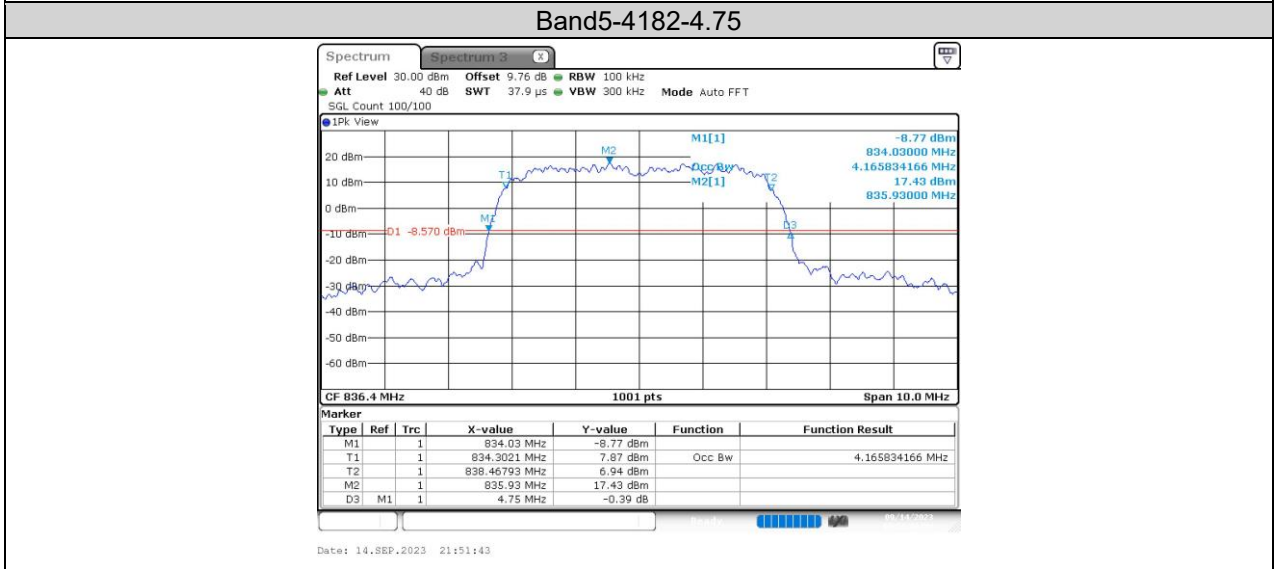
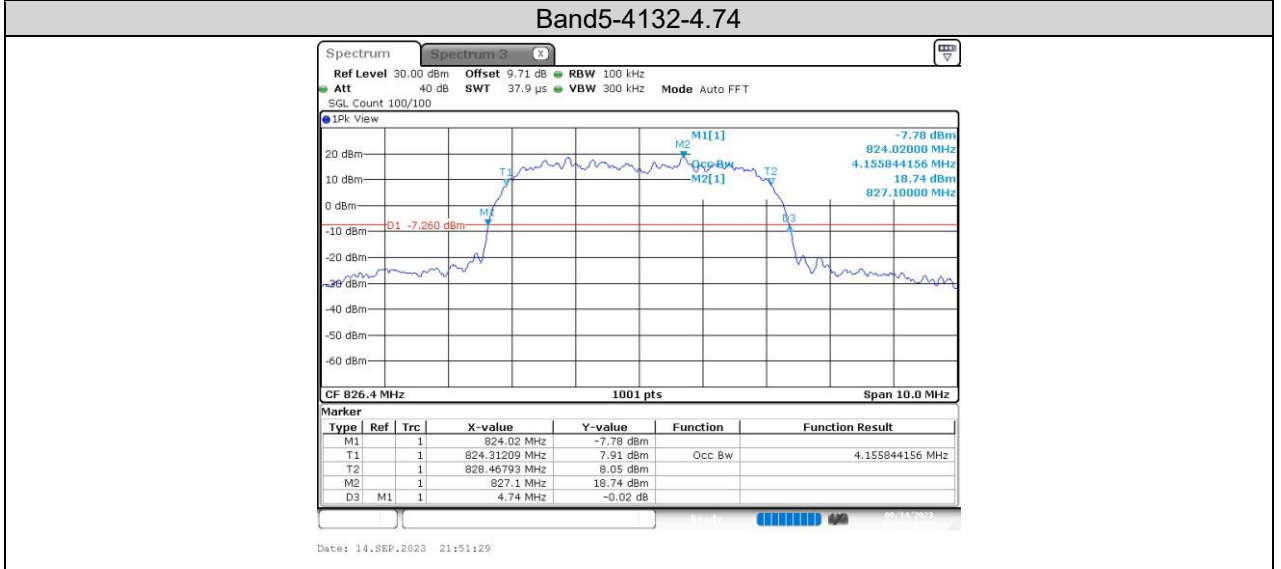


APPENDIX C.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.156	4.74	---	PASS
Band5	4182	4.166	4.75	---	PASS
Band5	4233	4.186	4.75	---	PASS

Test Graphs

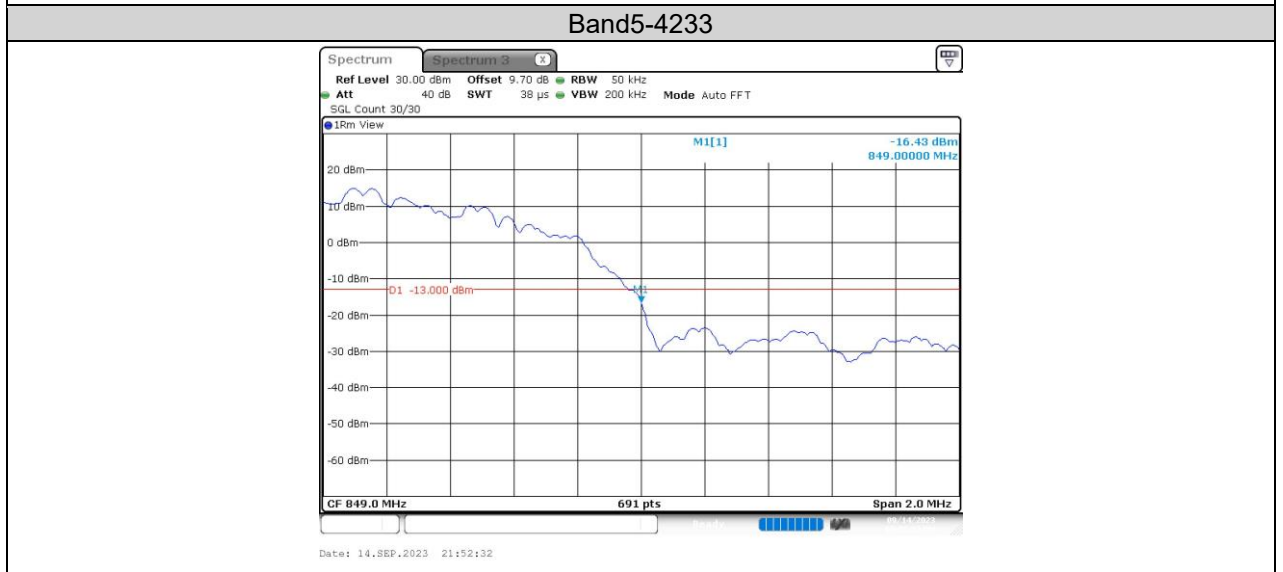


APPENDIX C.4: BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	824.00	-16.19	-13	PASS
Band5	4233	849.00	-16.43	-13	PASS

Test Graphs



APPENDIX C.5: CONDUCTED SPURIOUS EMISSIONS

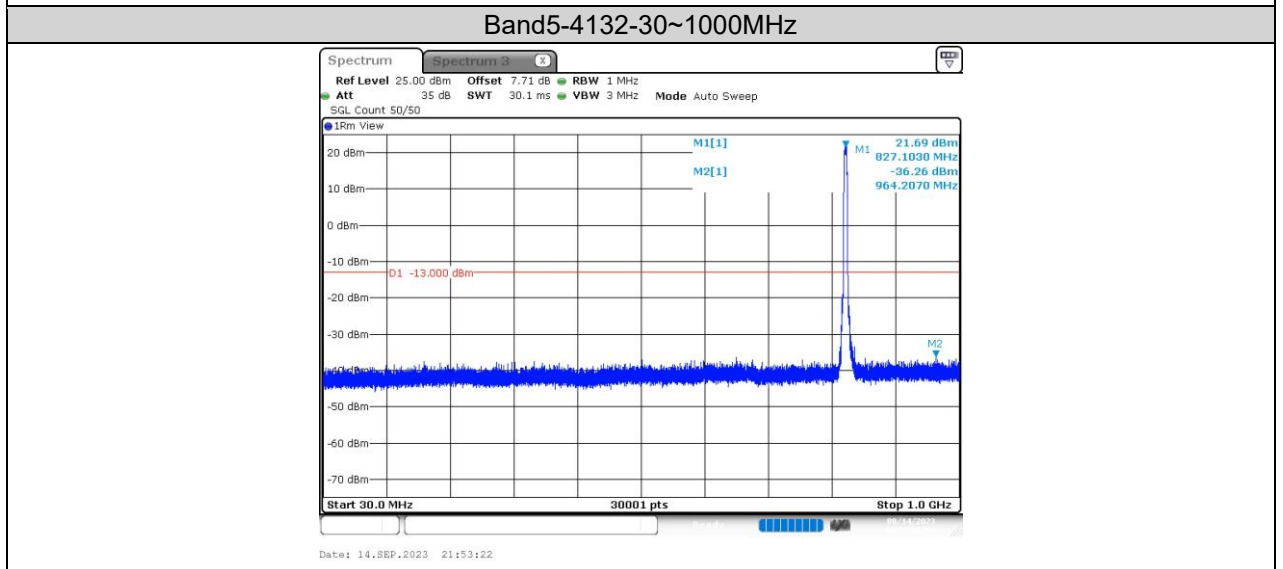
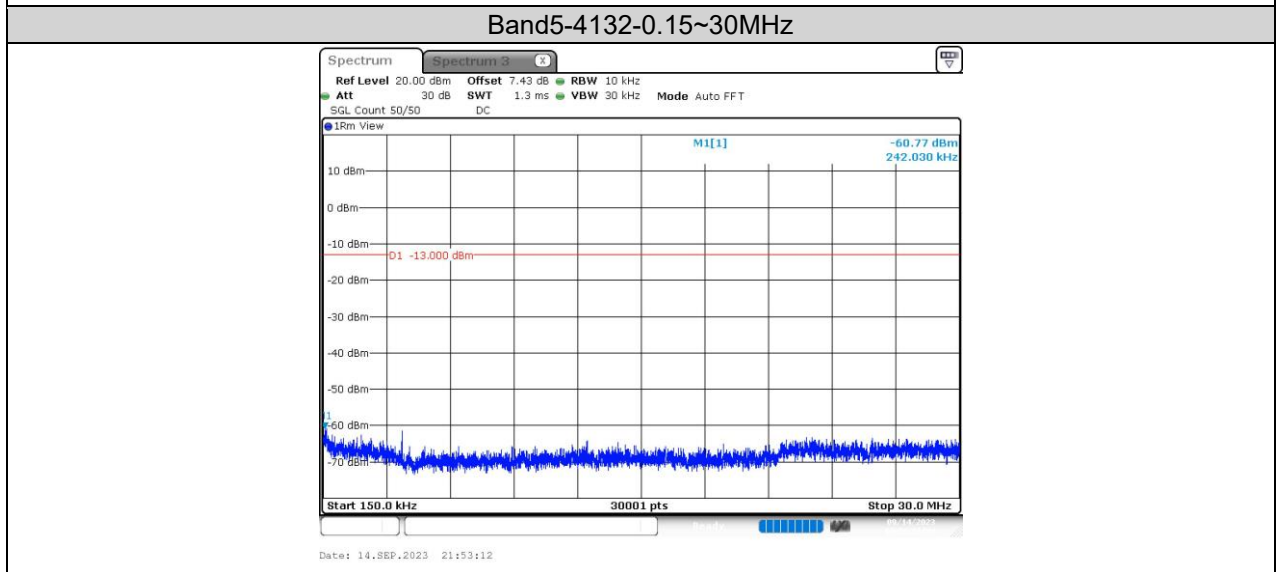
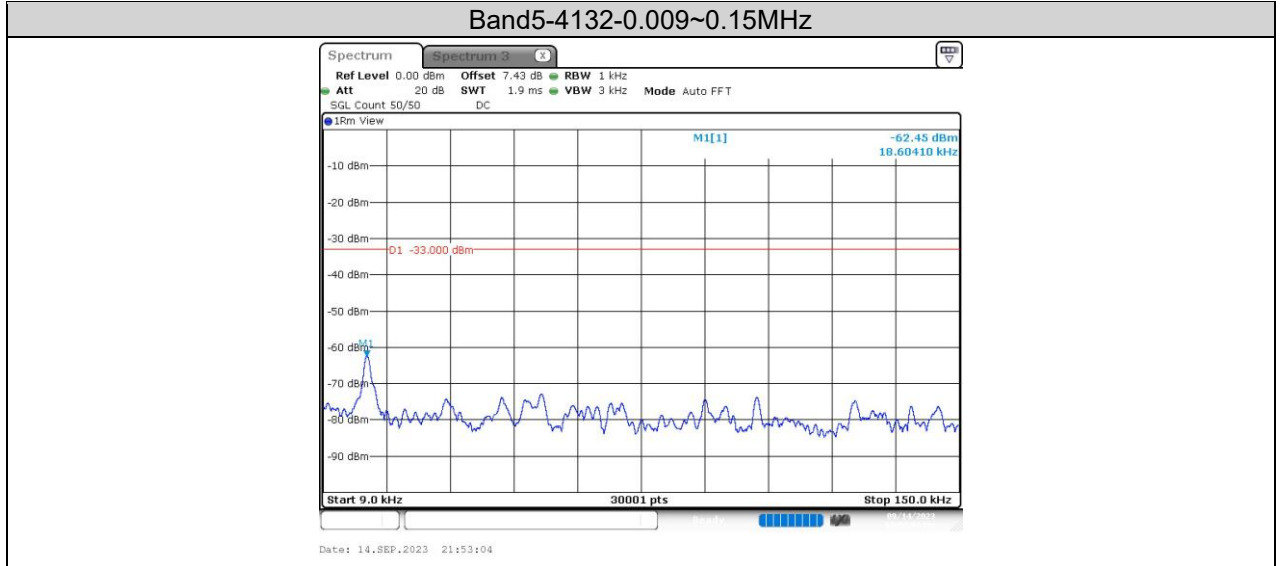
Test Result

General:

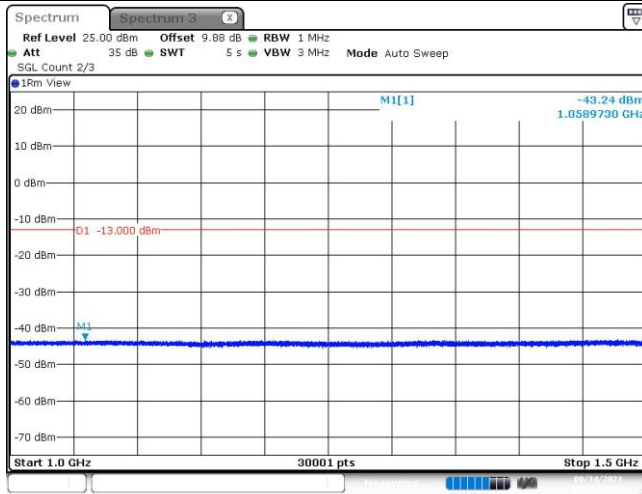
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	0.009~0.15MHz	0.02	-62.45	-33	PASS
Band5	4132	0.15~30MHz	0.24	-60.77	-13	PASS
Band5	4132	30~1000MHz	964.21	-36.26	-13	PASS
Band5	4132	1000~1500MHz	1058.97	-43.24	-13	PASS
Band5	4132	1500~3000MHz	2513.89	-39.56	-13	PASS
Band5	4132	3000~10000MHz	6903.19	-48.28	-13	PASS
Band5	4132	10000~18000MHz	15845.81	-45.81	-13	PASS
Band5	4182	0.009~0.15MHz	0.02	-62.79	-33	PASS
Band5	4182	0.15~30MHz	0.21	-61.13	-13	PASS
Band5	4182	30~1000MHz	936.98	-36.21	-13	PASS
Band5	4182	1000~1500MHz	1482.38	-43.13	-13	PASS
Band5	4182	1500~3000MHz	2993.08	-39.53	-13	PASS
Band5	4182	3000~10000MHz	6913.22	-48.42	-13	PASS
Band5	4182	10000~18000MHz	15577.28	-45.71	-13	PASS
Band5	4233	0.009~0.15MHz	0.02	-63.35	-33	PASS
Band5	4233	0.15~30MHz	3.84	-60.62	-13	PASS
Band5	4233	30~1000MHz	727.59	-36.67	-13	PASS
Band5	4233	1000~1500MHz	1468.33	-43.08	-13	PASS
Band5	4233	1500~3000MHz	2973.28	-39.33	-13	PASS
Band5	4233	3000~10000MHz	6891.29	-48.36	-13	PASS
Band5	4233	10000~18000MHz	15581.01	-45.71	-13	PASS

Test Graphs

General:

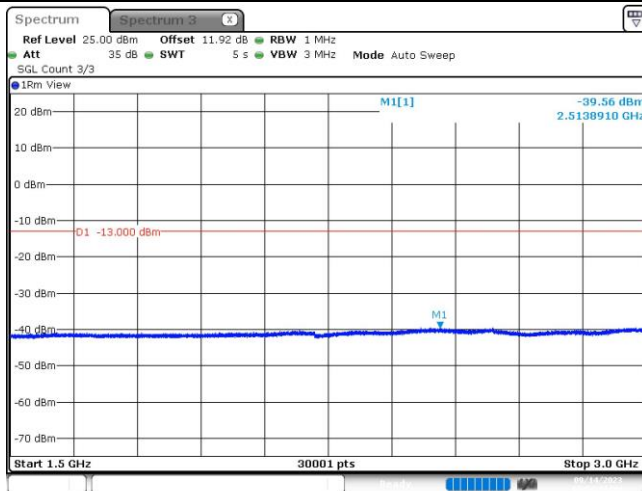


Band5-4132-1000~1500MHz



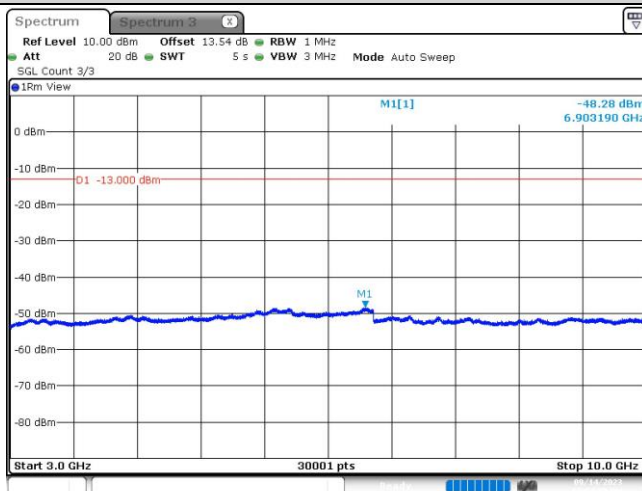
Date: 14.SEP.2023 21:53:46

Band5-4132-1500~3000MHz



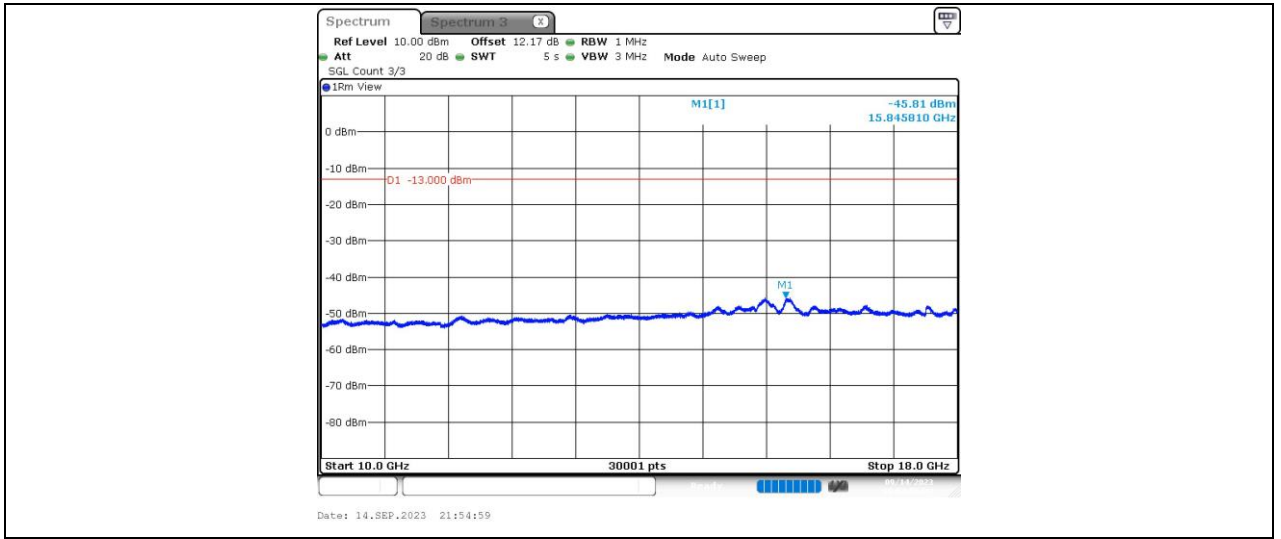
Date: 14.SEP.2023 21:54:11

Band5-4132-3000~10000MHz

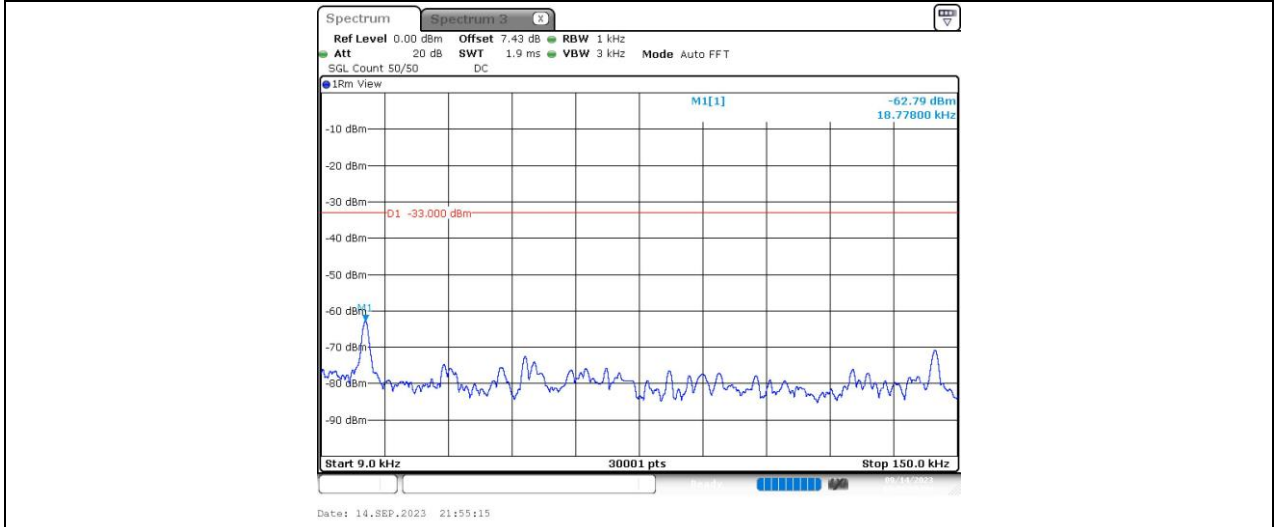


Date: 14.SEP.2023 21:54:35

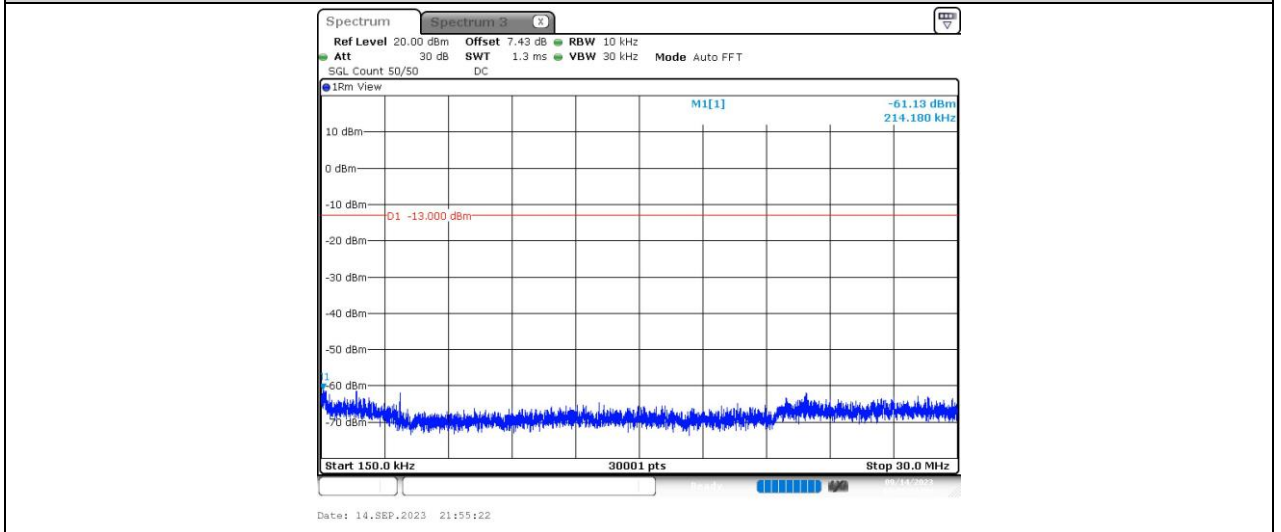
Band5-4132-10000~18000MHz



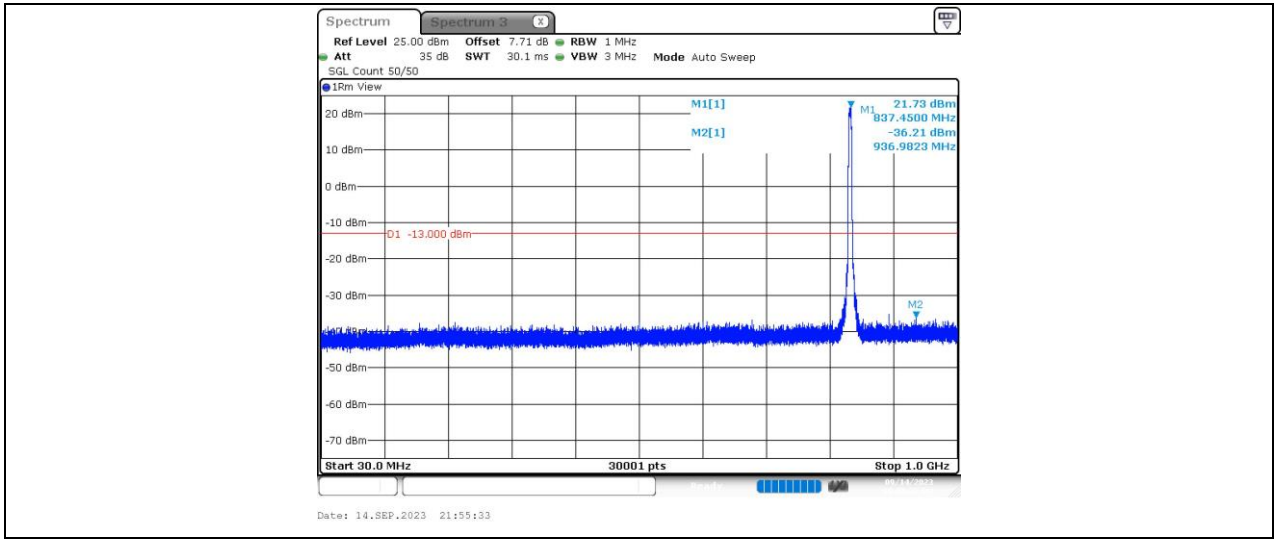
Band5-4182-0.009~0.15MHz



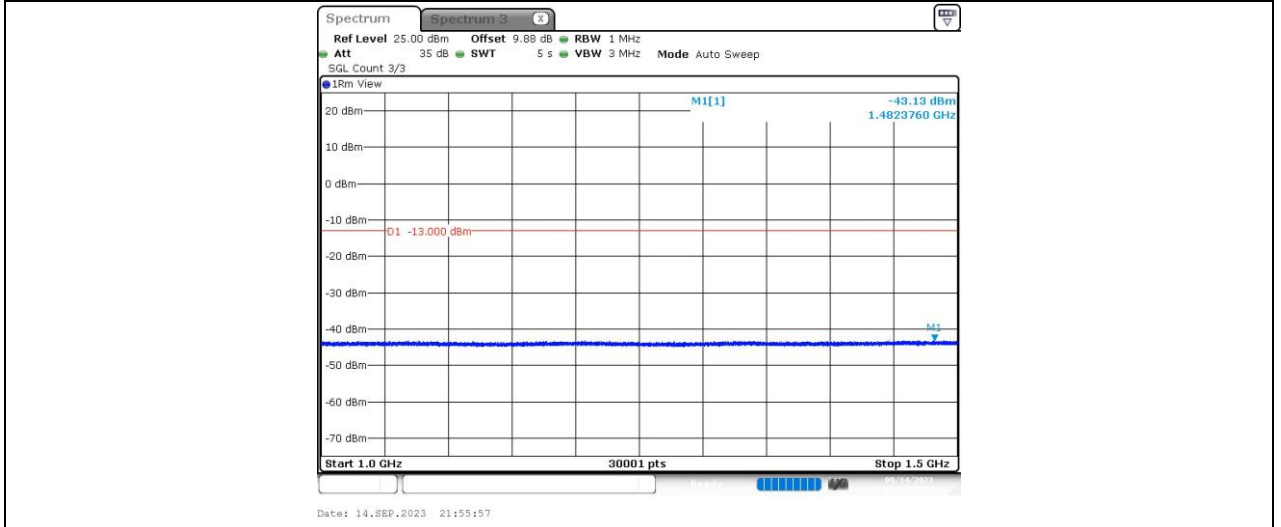
Band5-4182-0.15~30MHz



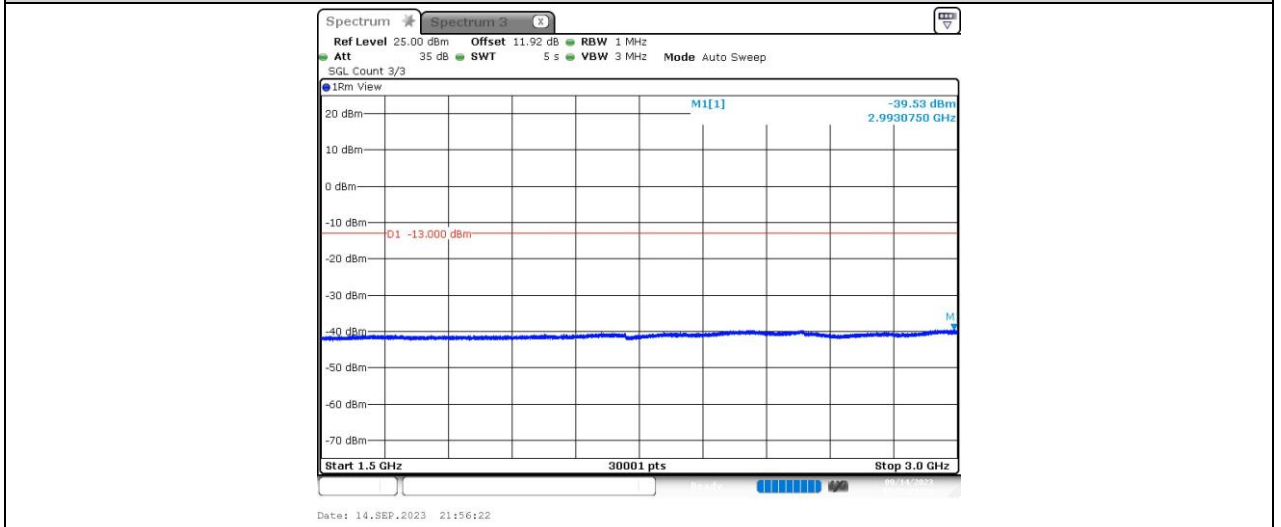
Band5-4182-30~1000MHz



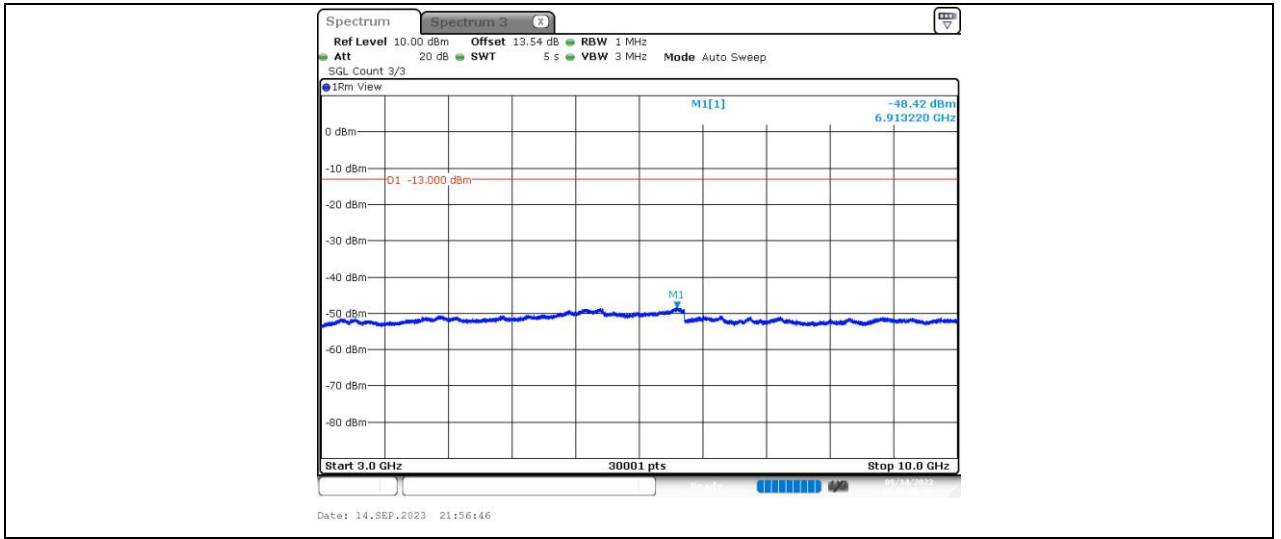
Band5-4182-1000~1500MHz



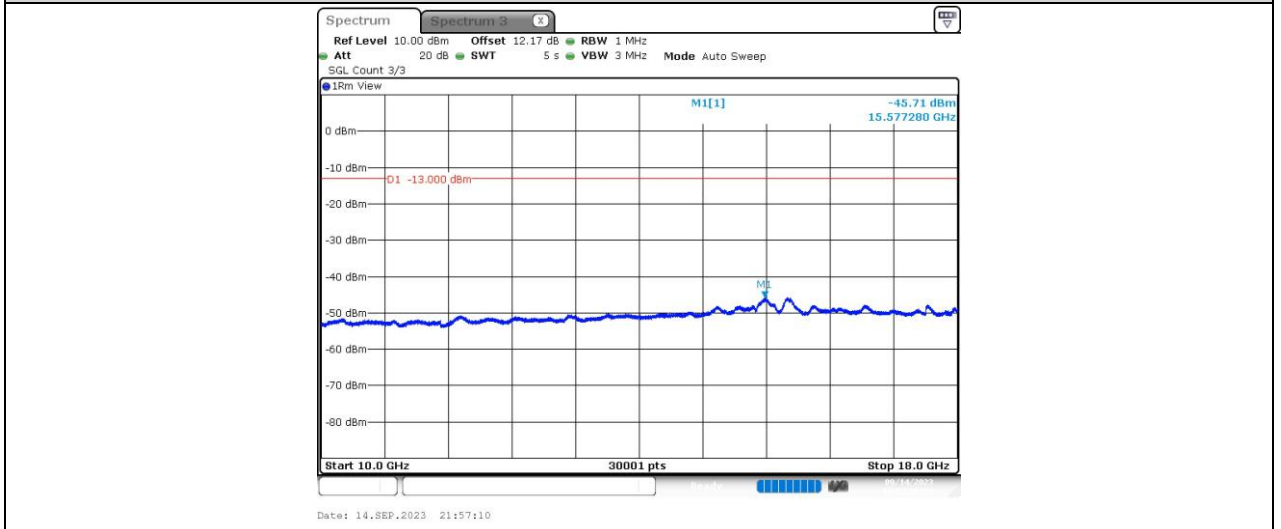
Band5-4182-1500~3000MHz



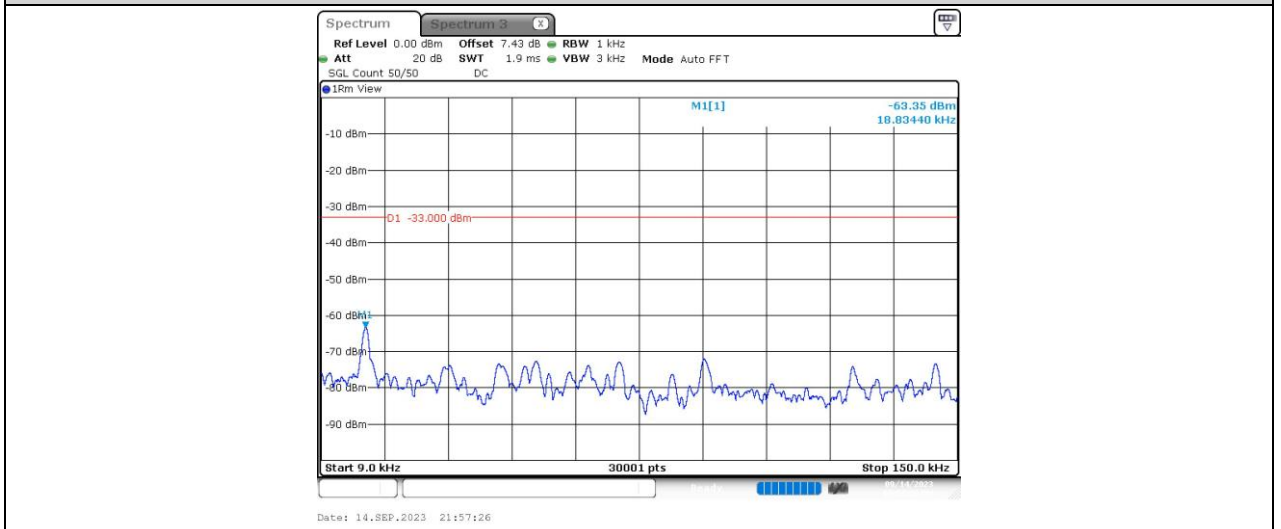
Band5-4182-3000~10000MHz



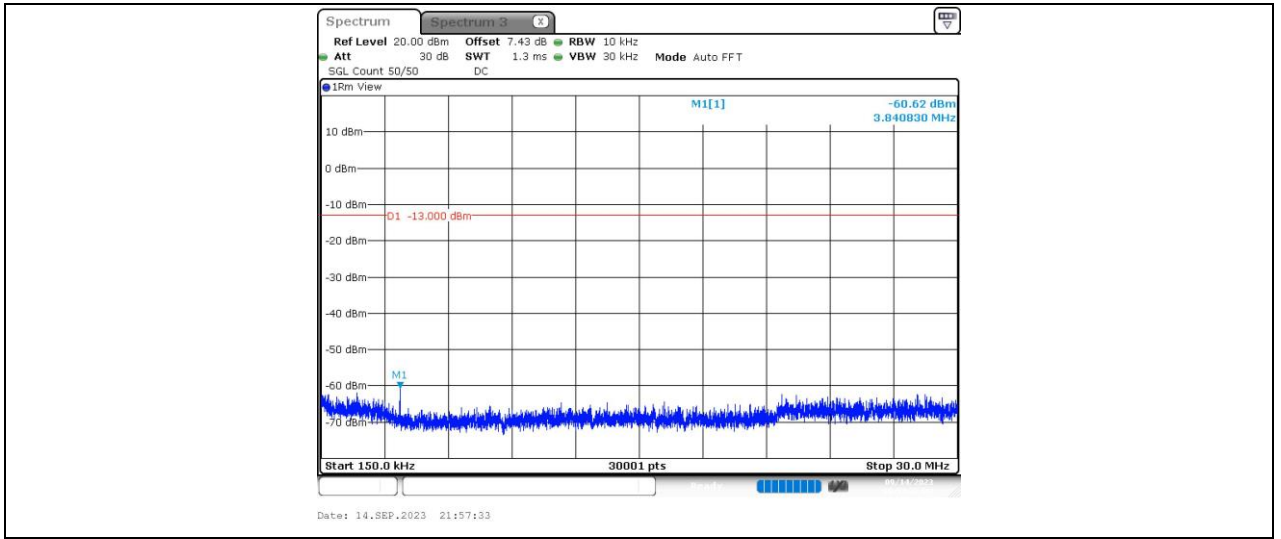
Band5-4182-10000~18000MHz



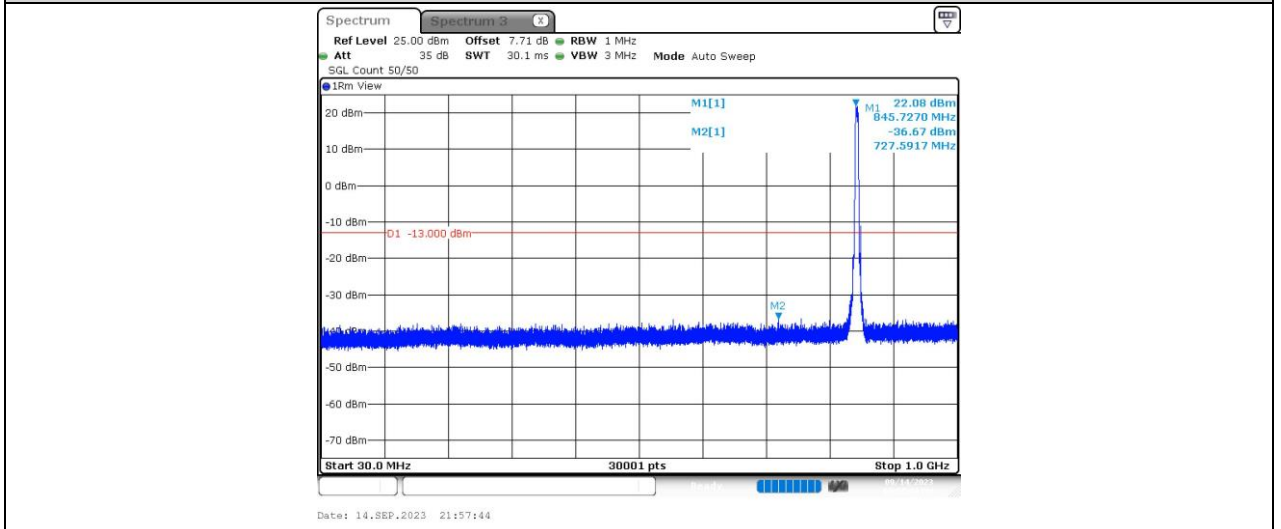
Band5-4233-0.009~0.15MHz



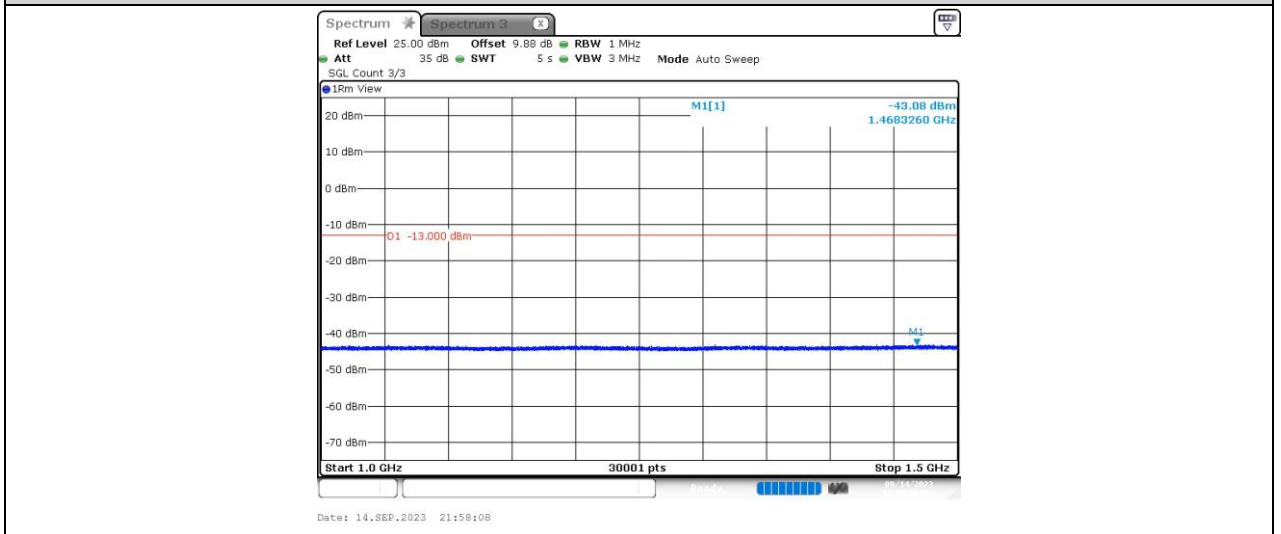
Band5-4233-0.15~30MHz



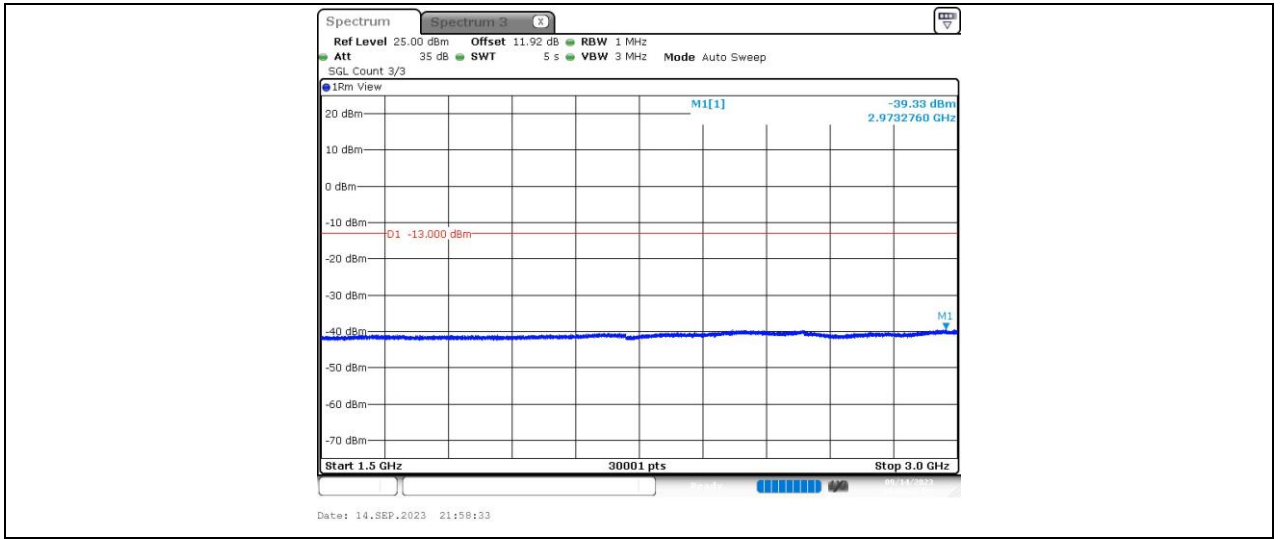
Band5-4233-30~1000MHz



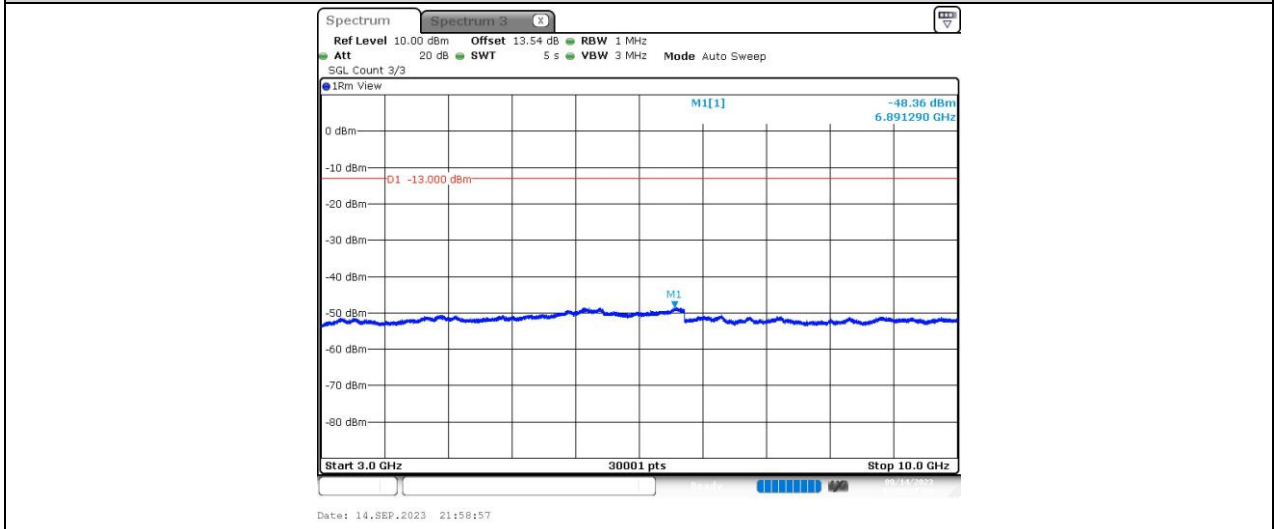
Band5-4233-1000~1500MHz



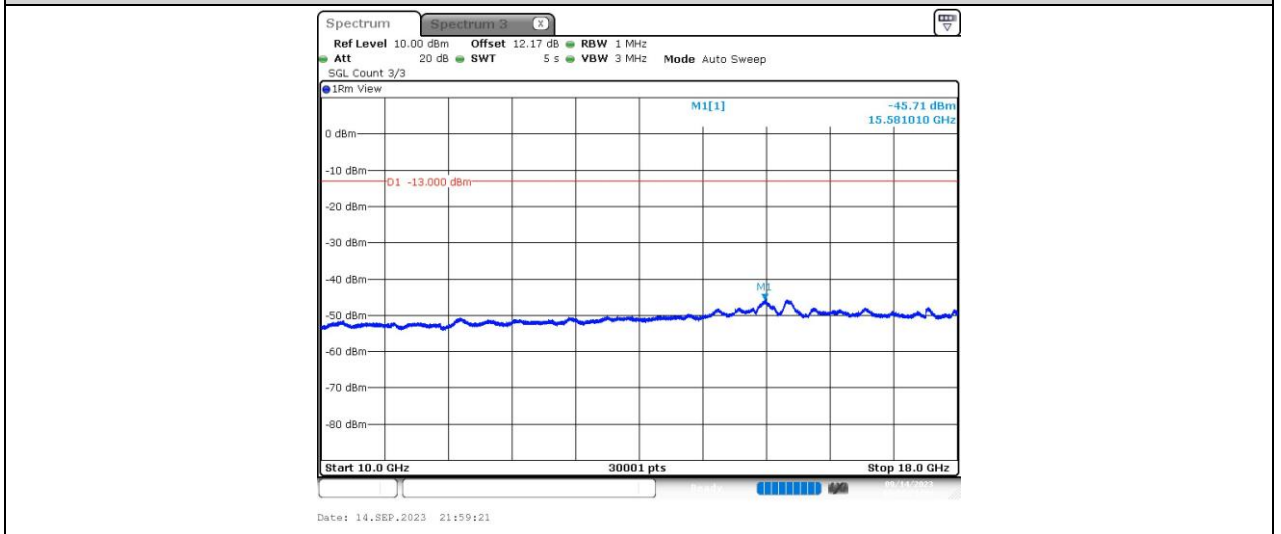
Band5-4233-1500~3000MHz



Band5-4233-3000~10000MHz



Band5-4233-10000~18000MHz



APPENDIX C.6: FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	0.60	0.000726	±2.5	PASS
Band5	4132	VN	NT	0.38	0.000460	±2.5	PASS
Band5	4132	VH	NT	0.28	0.000339	±2.5	PASS
Band5	4182	VL	NT	-0.67	-0.000801	±2.5	PASS
Band5	4182	VN	NT	-0.34	-0.000407	±2.5	PASS
Band5	4182	VH	NT	-0.73	-0.000873	±2.5	PASS
Band5	4233	VL	NT	-2.68	-0.003166	±2.5	PASS
Band5	4233	VN	NT	-3.05	-0.003603	±2.5	PASS
Band5	4233	VH	NT	-3.25	-0.003839	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	0.31	0.000375	±2.5	PASS
Band5	4132	NV	-20	0.60	0.000726	±2.5	PASS
Band5	4132	NV	0	0.53	0.000641	±2.5	PASS
Band5	4132	NV	10	1.20	0.001452	±2.5	PASS
Band5	4132	NV	20	0.14	0.000169	±2.5	PASS
Band5	4132	NV	30	1.29	0.001561	±2.5	PASS
Band5	4132	NV	40	1.11	0.001343	±2.5	PASS
Band5	4132	NV	50	0.98	0.001186	±2.5	PASS
Band5	4132	NV	55	1.33	0.001609	±2.5	PASS
Band5	4182	NV	-30	-0.60	-0.000717	±2.5	PASS
Band5	4182	NV	-20	-0.32	-0.000383	±2.5	PASS
Band5	4182	NV	0	-0.49	-0.000586	±2.5	PASS
Band5	4182	NV	10	-0.26	-0.000311	±2.5	PASS
Band5	4182	NV	20	-0.98	-0.001172	±2.5	PASS
Band5	4182	NV	30	-0.80	-0.000956	±2.5	PASS
Band5	4182	NV	40	-0.37	-0.000442	±2.5	PASS
Band5	4182	NV	50	-0.24	-0.000287	±2.5	PASS
Band5	4182	NV	55	-0.45	-0.000538	±2.5	PASS
Band5	4233	NV	-30	-3.20	-0.003780	±2.5	PASS
Band5	4233	NV	-20	-2.72	-0.003213	±2.5	PASS
Band5	4233	NV	0	-3.33	-0.003933	±2.5	PASS
Band5	4233	NV	10	-3.13	-0.003697	±2.5	PASS
Band5	4233	NV	20	-3.04	-0.003591	±2.5	PASS
Band5	4233	NV	30	-3.13	-0.003697	±2.5	PASS
Band5	4233	NV	40	-3.45	-0.004075	±2.5	PASS
Band5	4233	NV	50	-3.28	-0.003874	±2.5	PASS
Band5	4233	NV	55	-2.88	-0.003402	±2.5	PASS