

10 APPENDIX

Appendix1

10.1 APPENDIX A: 20DB EMISSION BANDWIDTH

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	1.098	2401.454	2402.552	---	PASS
		2441	1.095	2440.454	2441.549	---	PASS
		2480	1.101	2479.454	2480.555	---	PASS
2DH1	Ant1	2402	1.383	2401.307	2402.690	---	PASS
		2441	1.386	2440.307	2441.693	---	PASS
		2480	1.383	2479.310	2480.693	---	PASS
3DH1	Ant1	2402	1.362	2401.313	2402.675	---	PASS
		2441	1.362	2440.313	2441.675	---	PASS
		2480	1.362	2479.319	2480.681	---	PASS

Test Graphs





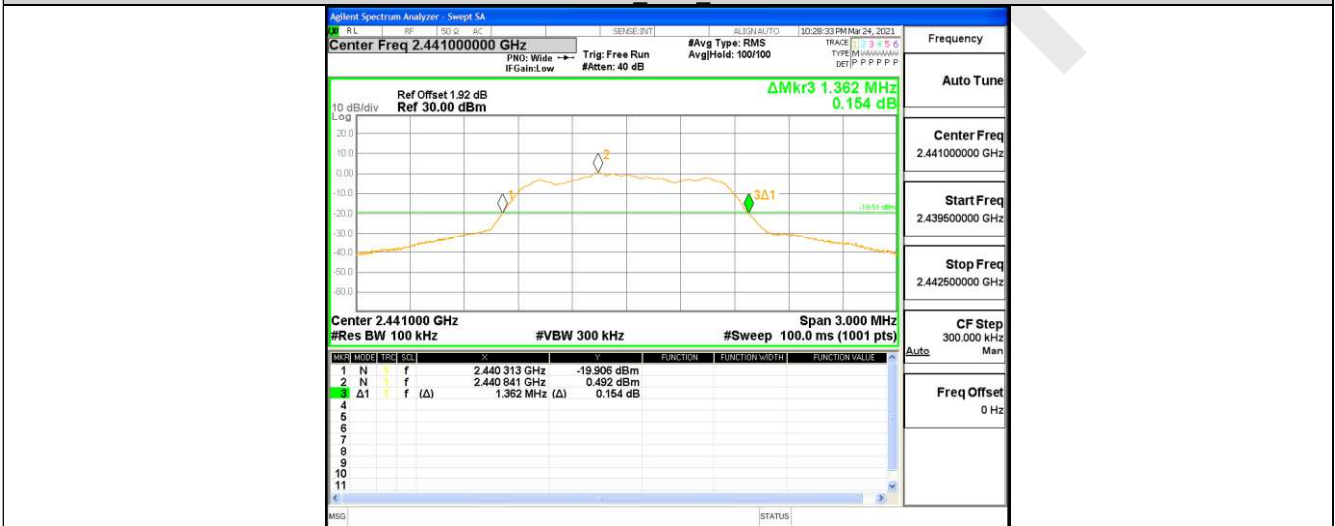
2DH1_Ant1_2441



2DH1_Ant1_2440



3DH1_Ant1_2402



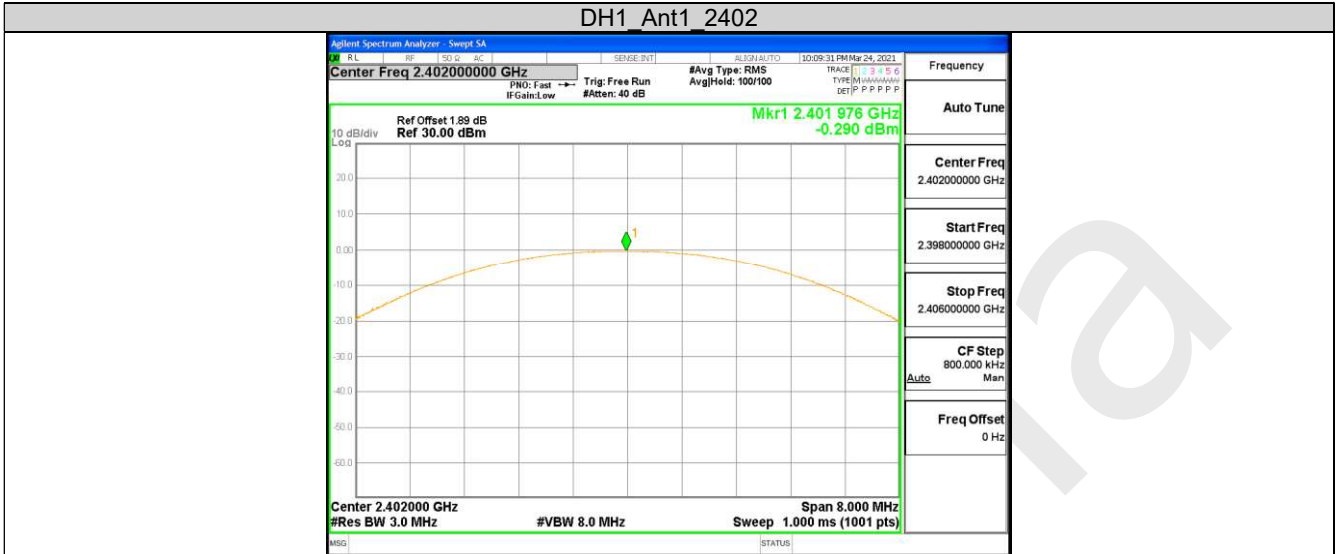
10.2 APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

Test Result

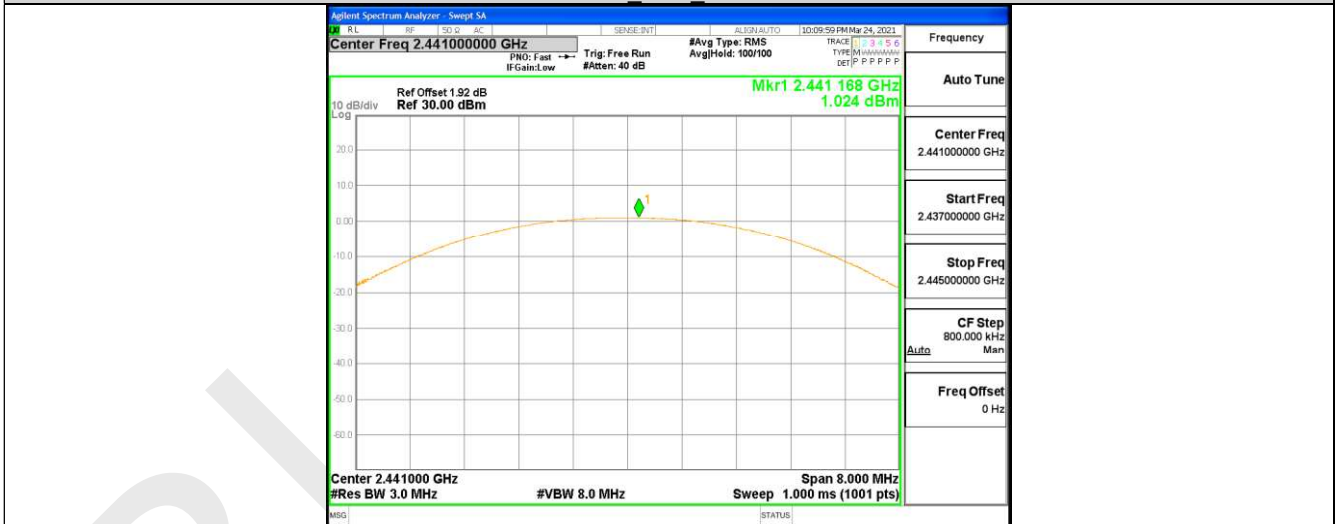
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	-0.29	<=20.97	PASS
		2441	1.02	<=20.97	PASS
		2480	2.43	<=20.97	PASS
2DH1	Ant1	2402	2.56	<=20.97	PASS
		2441	3.84	<=20.97	PASS
		2480	5.3	<=20.97	PASS
3DH1	Ant1	2402	2.66	<=20.97	PASS
		2441	3.98	<=20.97	PASS
		2480	5.37	<=20.97	PASS

Test Graphs

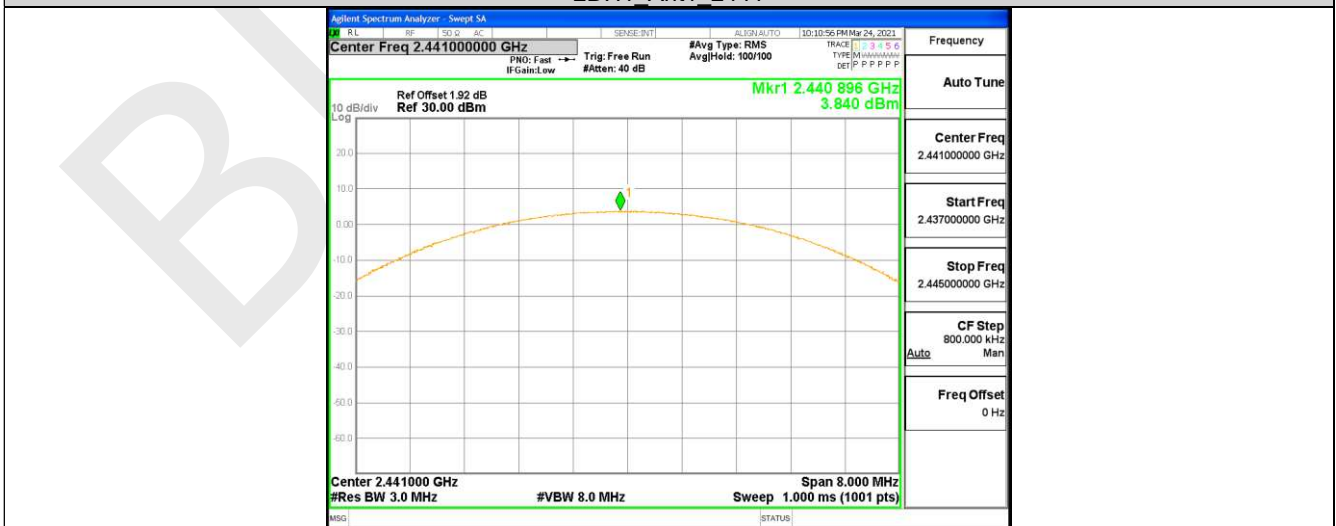
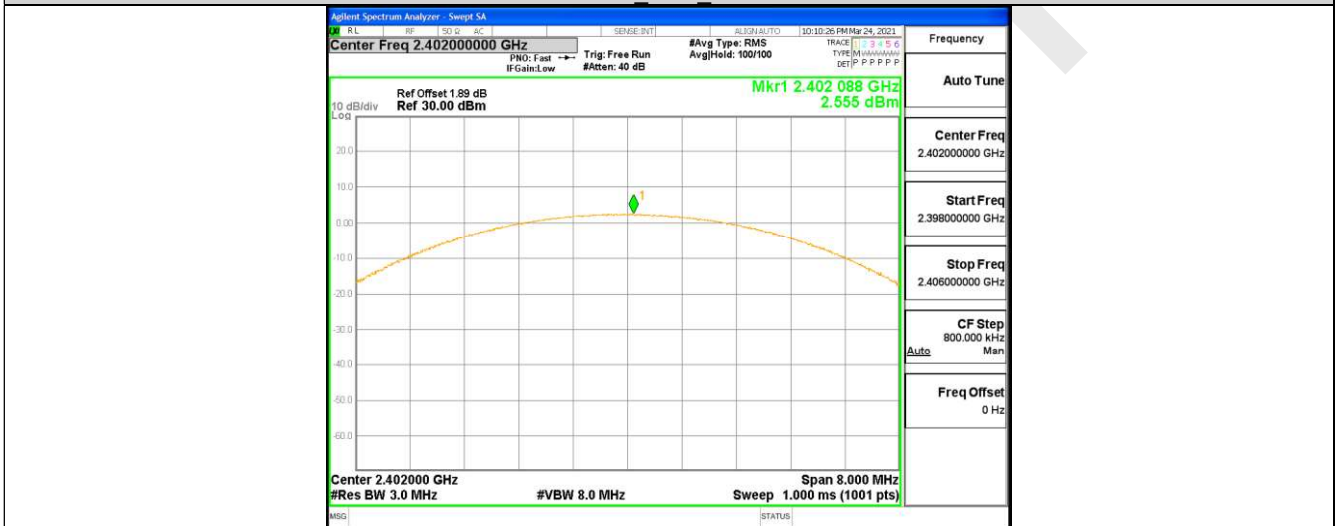
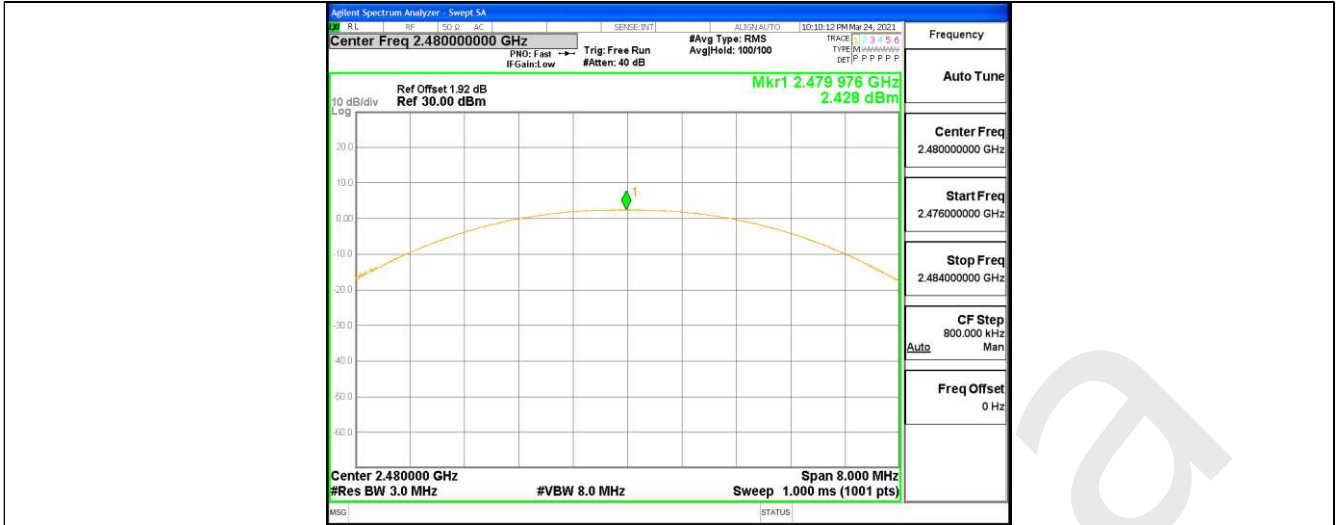
DH1 Ant1 2402

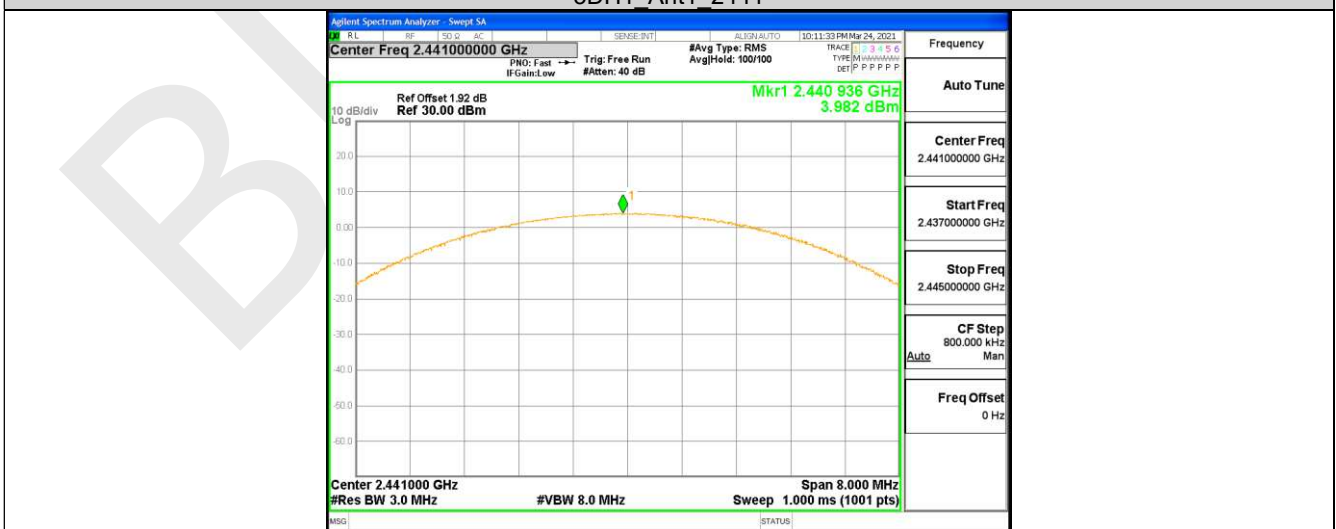
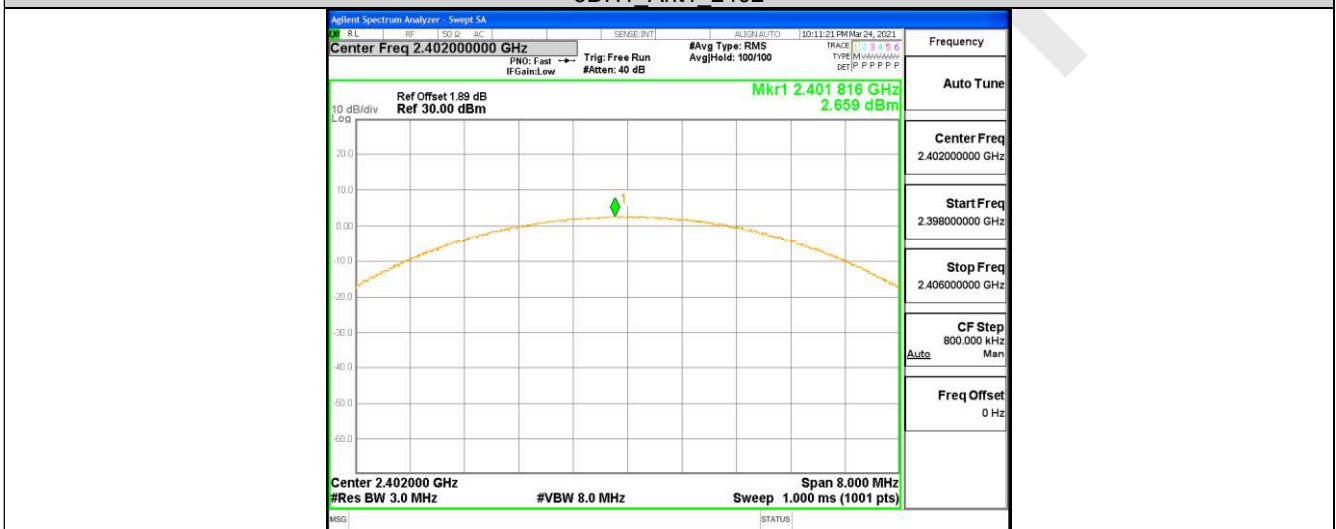
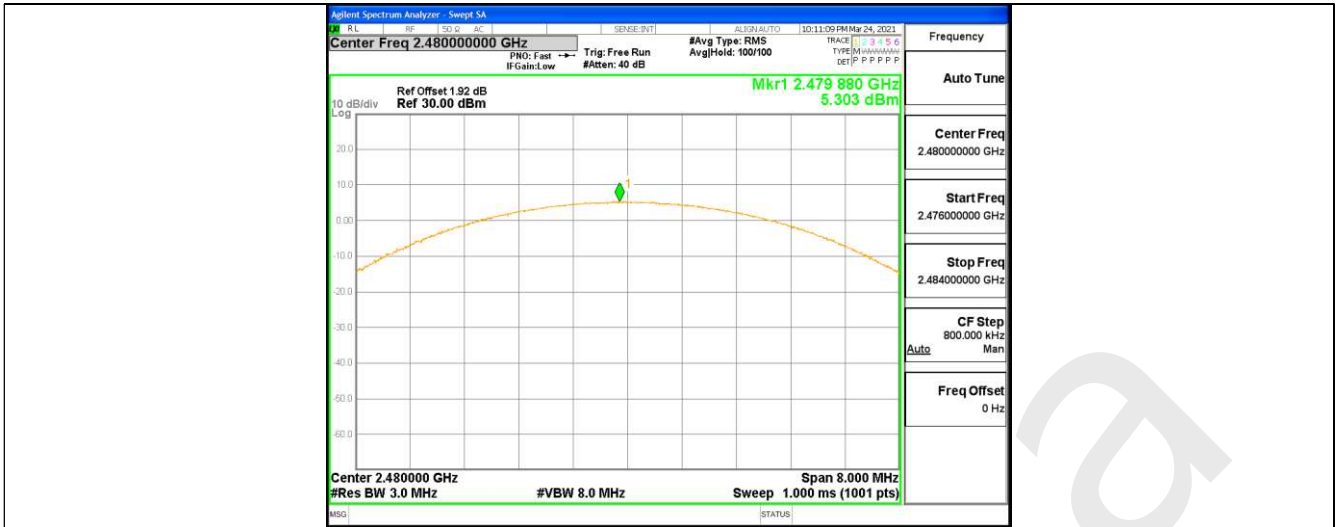


DH1 Ant1 2441



DH1 Ant1 2480







10.3 APPENDIX D: CARRIER FREQUENCY SEPARATION

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	1.002	≥ 0.734	PASS
2DH1	Ant1	Hop	1	≥ 0.924	PASS
3DH1	Ant1	Hop	0.998	≥ 0.908	PASS

Test Graphs



10.4 APPENDIX E: TIME OF OCCUPANCY

Test Result

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	DH1/2-DH1/3-DH1	115.200	400	Pass
2441MHz	DH3/2-DH3/3-DH3	259.200	400	Pass
2441MHz	DH5/2-DH5/3-DH5	306.133	400	Pass

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

Test channel: 2441MHz as blow

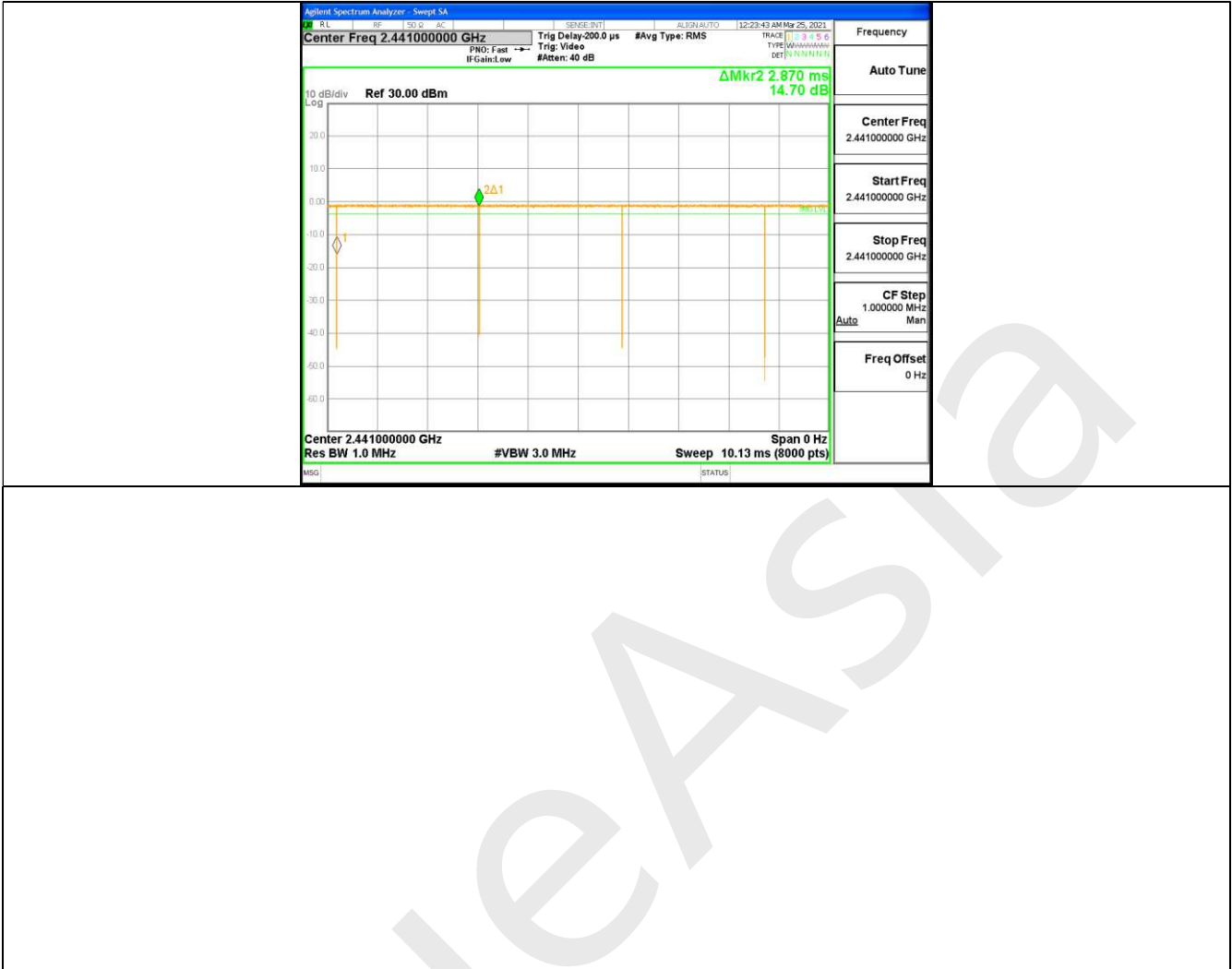
DH1/2-DH1/3-DH1 time slot = $0.36 \text{ (ms)} \times (1600 / (2 \times 79)) \times 31.6 = 115.200 \text{ ms}$

DH3/2-DH3/3-DH3 time slot = $1.62 \text{ (ms)} \times (1600 / (4 \times 79)) \times 31.6 = 259.200 \text{ ms}$

DH5/2-DH5/3-DH5 time slot = $2.87 \text{ (ms)} \times (1600 / (6 \times 79)) \times 31.6 = 306.133 \text{ ms}$

Test Graphs





10.5 APPENDIX F: NUMBER OF HOPPING CHANNELS**Test Result**

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥ 15	PASS
2DH1	Ant1	Hop	79	≥ 15	PASS
3DH1	Ant1	Hop	79	≥ 15	PASS

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Test Graphs

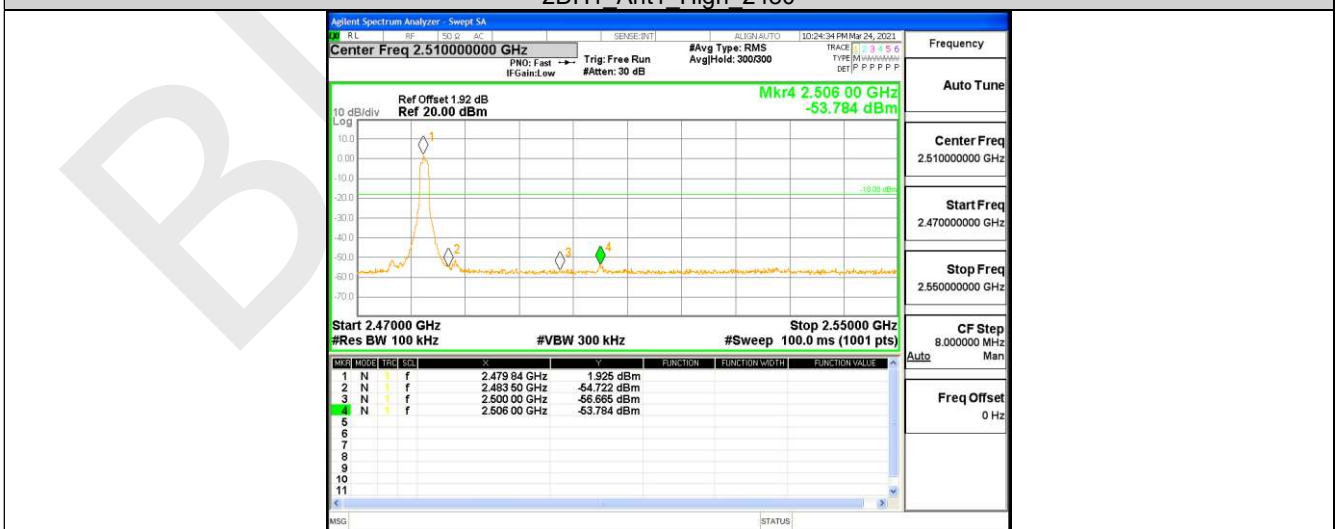
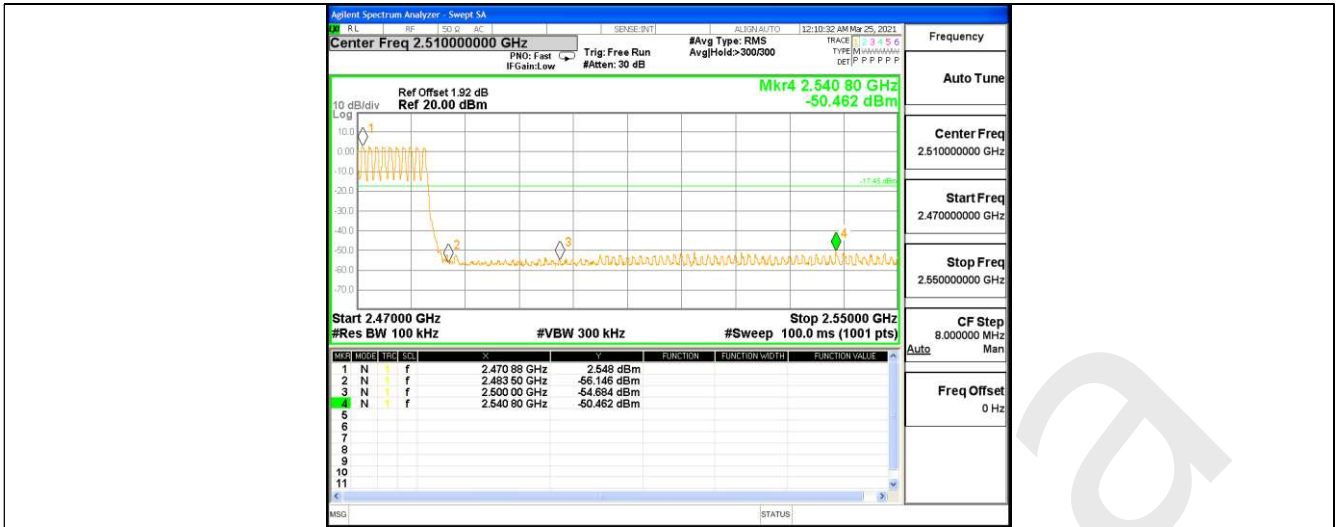


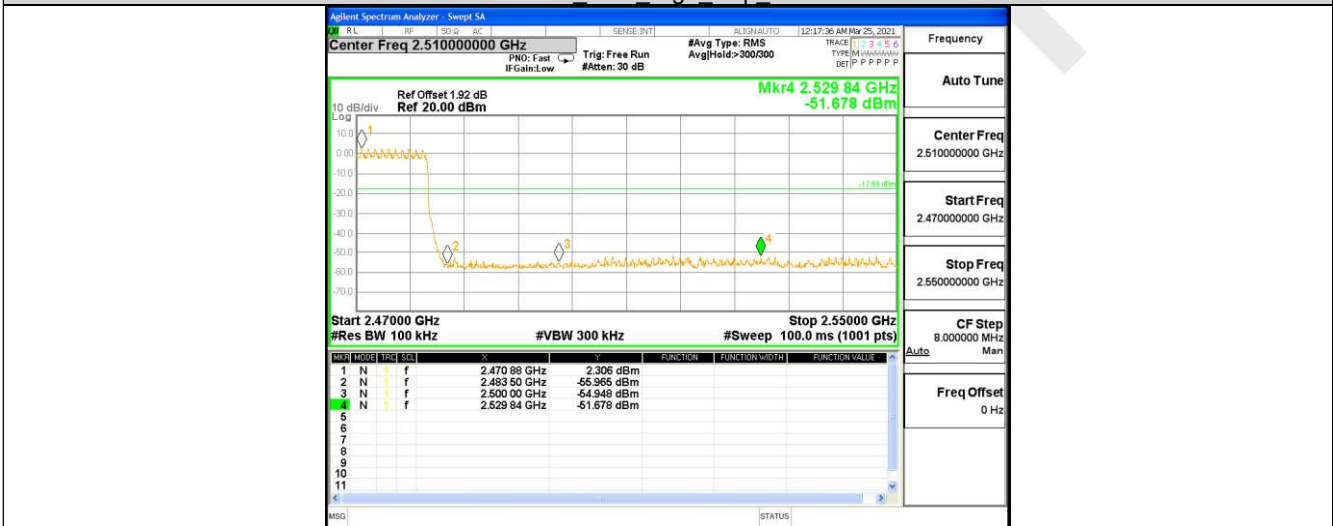
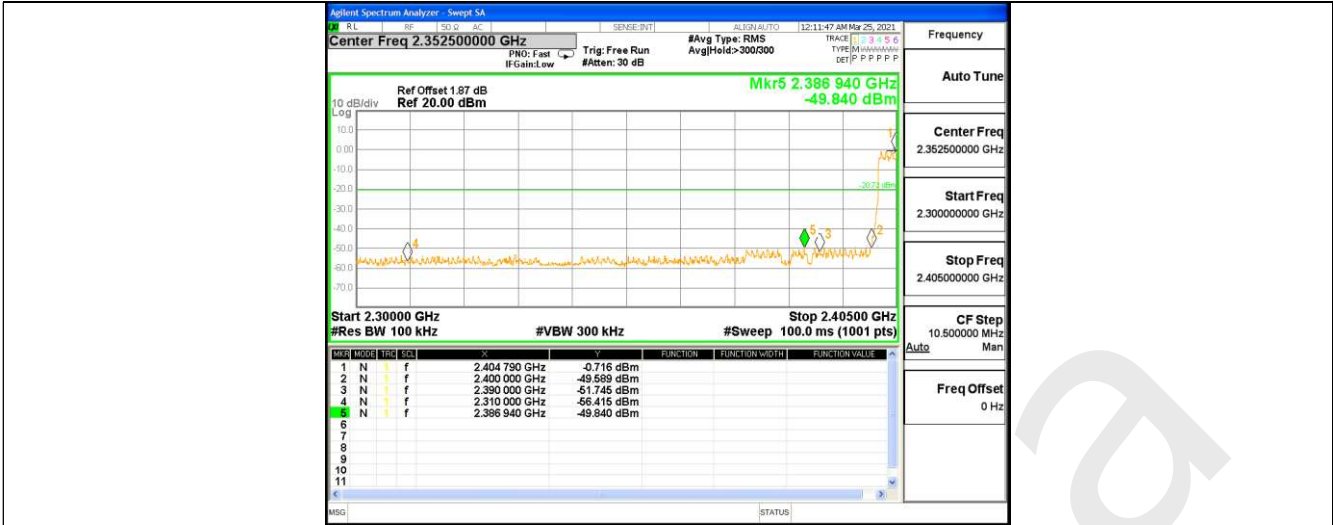
10.6 APPENDIX G: BAND EDGE MEASUREMENTS
Test Result

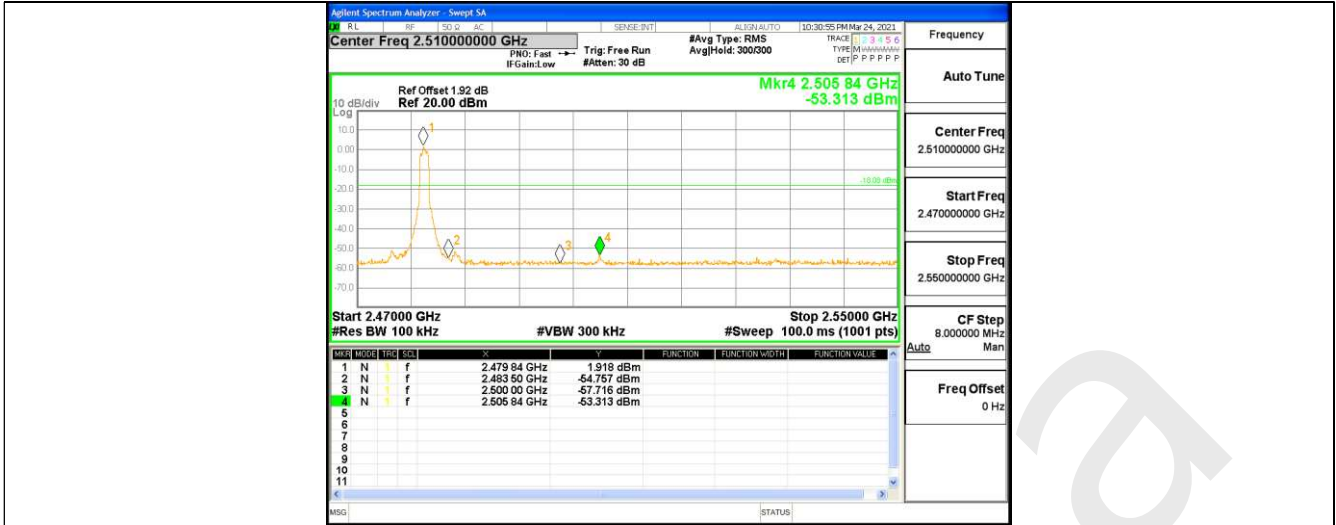
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	-0.81	-49.62	<=-20.81	PASS
		High	2480	1.97	-52.65	<=-18.03	PASS
		Low	Hop_2402	-0.36	-49.66	-20.36	PASS
		High	Hop_2480	2.55	-50.46	-17.45	PASS
2DH1	Ant1	Low	2402	-0.87	-49.44	<=-20.87	PASS
		High	2480	1.93	-53.78	<=-18.08	PASS
		Low	Hop_2402	-0.72	-49.84	-20.72	PASS
		High	Hop_2480	2.31	-51.68	-17.69	PASS
3DH1	Ant1	Low	2402	-0.87	-49.44	<=-20.87	PASS
		High	2480	1.92	-53.31	<=-18.08	PASS
		Low	Hop_2402	-0.68	-49.87	-20.68	PASS
		High	Hop_2480	2.42	-51.36	-17.58	PASS

Test Graphs

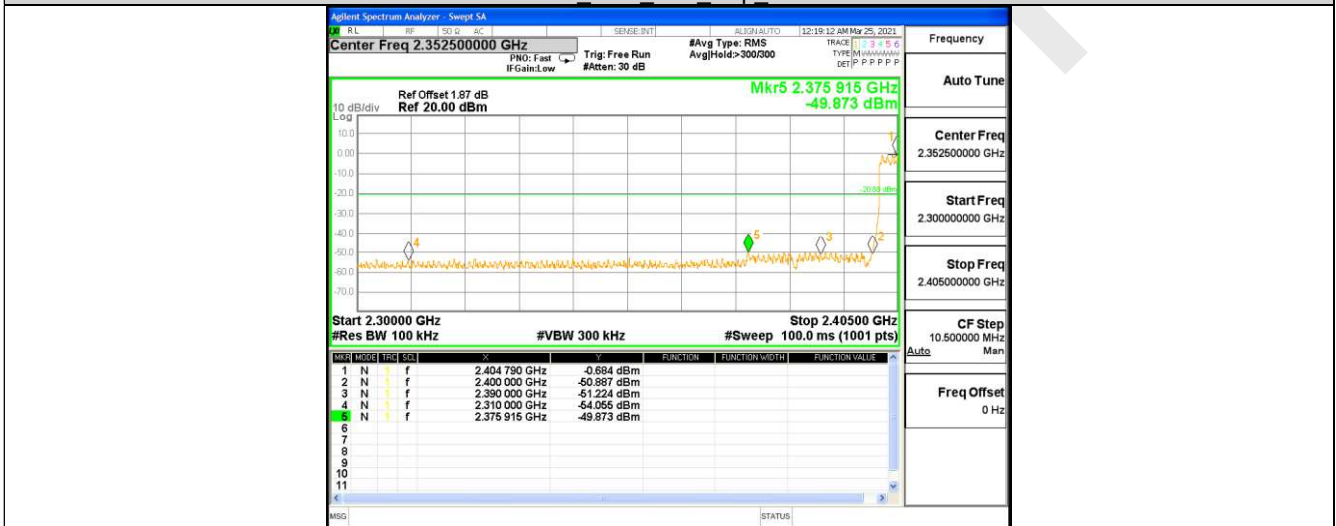




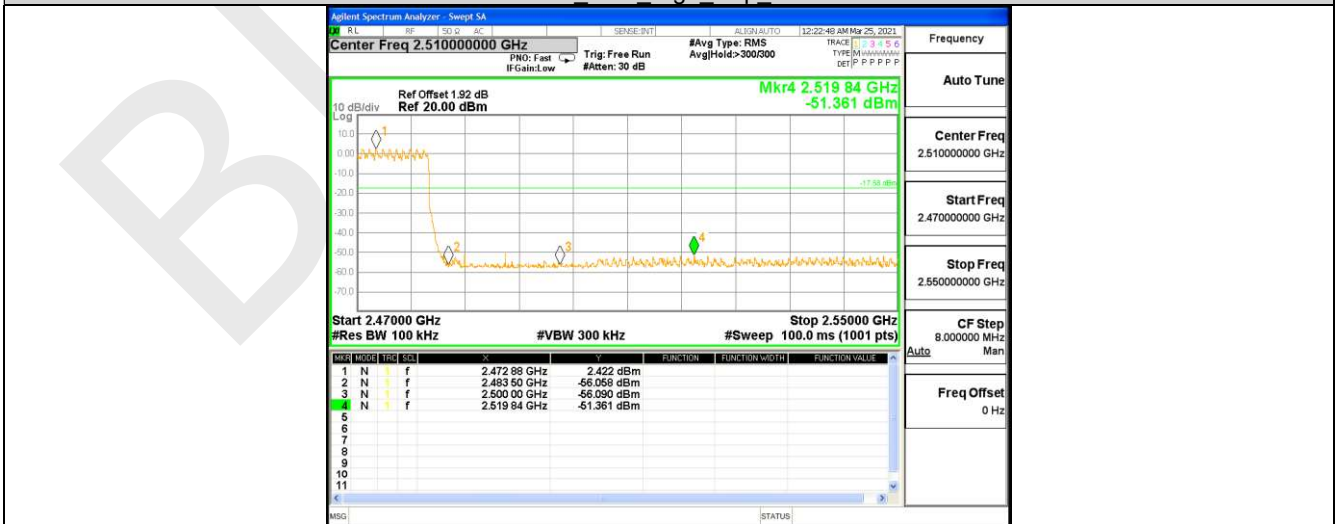




3DH1 Ant1 Low Hop 2402



3DH1 Ant1 High Hop 2480



10.7 APPENDIX H: CONDUCTED SPURIOUS EMISSION

Test Result

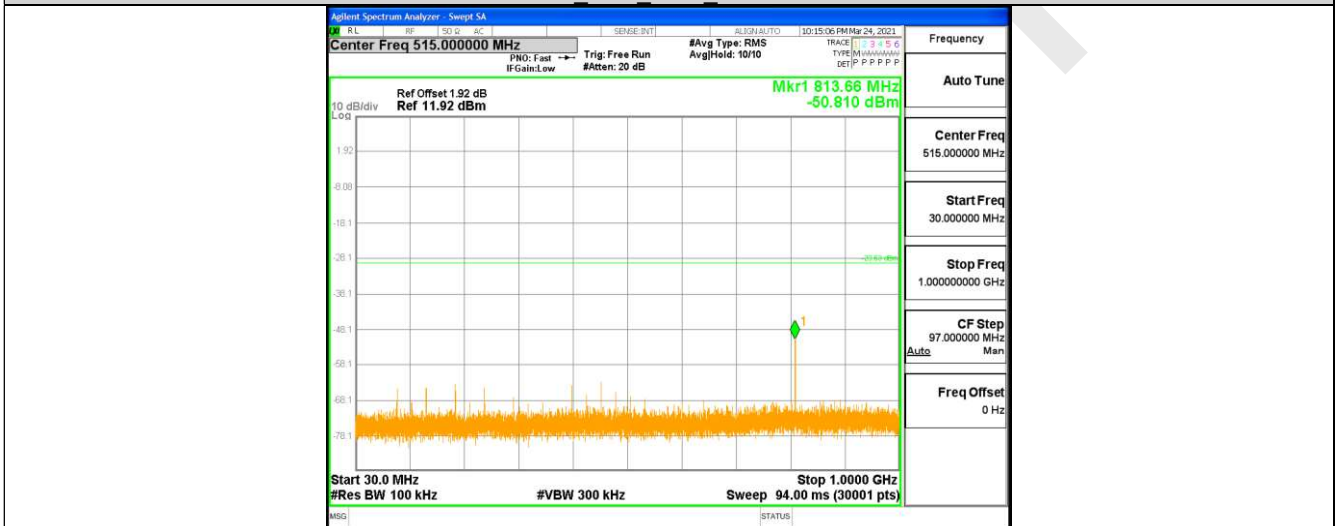
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	-0.85	-0.85	---	PASS
			30~1000	30~1000	-52.958	<=-30.85	PASS
			1000~26500	1000~26500	-44.418	<=-30.85	PASS
		2441	Reference	0.37	0.37	---	PASS
			30~1000	30~1000	-50.81	<=-29.628	PASS
			1000~26500	1000~26500	-44.66	<=-29.628	PASS
		2480	Reference	1.96	1.96	---	PASS
			30~1000	30~1000	-50.852	<=-28.041	PASS
			1000~26500	1000~26500	-43.739	<=-28.041	PASS
2DH1	Ant1	2402	Reference	-0.87	-0.87	---	PASS
			30~1000	30~1000	-53.946	<=-30.873	PASS
			1000~26500	1000~26500	-46.168	<=-30.873	PASS
		2441	Reference	0.38	0.38	---	PASS
			30~1000	30~1000	-51.945	<=-29.625	PASS
			1000~26500	1000~26500	-45.274	<=-29.625	PASS
		2480	Reference	1.91	1.91	---	PASS
			30~1000	30~1000	-50.933	<=-28.09	PASS
			1000~26500	1000~26500	-45.697	<=-28.09	PASS
3DH1	Ant1	2402	Reference	-0.91	-0.91	---	PASS
			30~1000	30~1000	-54.282	<=-30.913	PASS
			1000~26500	1000~26500	-45.893	<=-30.913	PASS
		2441	Reference	0.27	0.27	---	PASS
			30~1000	30~1000	-52.975	<=-29.734	PASS
			1000~26500	1000~26500	-47.519	<=-29.734	PASS
		2480	Reference	1.90	1.90	---	PASS
			30~1000	30~1000	-50.594	<=-28.097	PASS
			1000~26500	1000~26500	-46.303	<=-28.097	PASS

Test Graphs

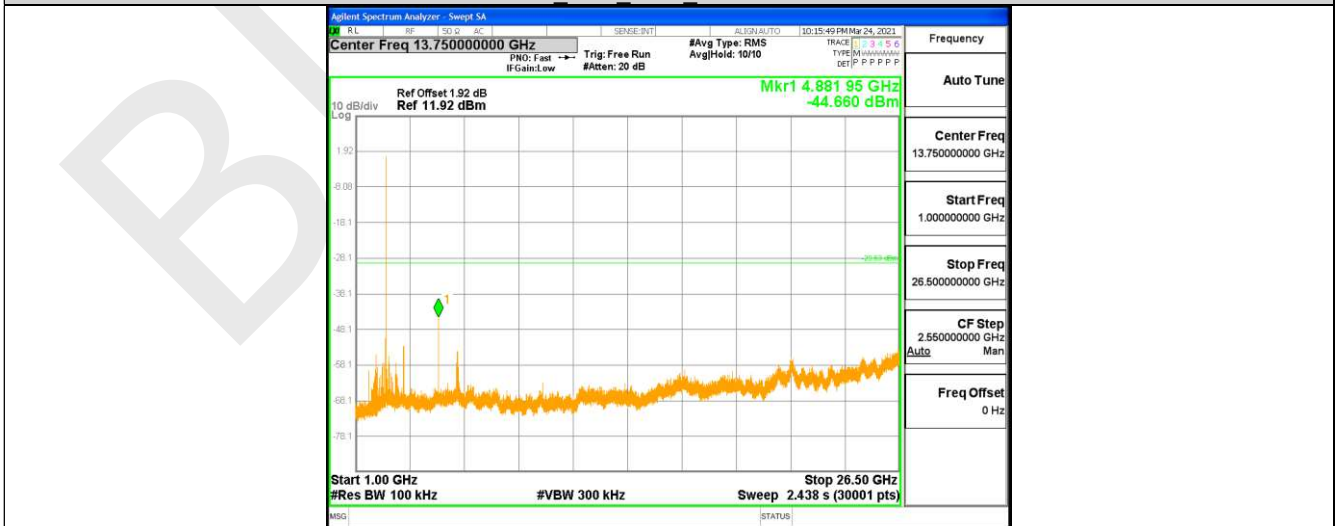




DH1 Ant1 2441 30~1000



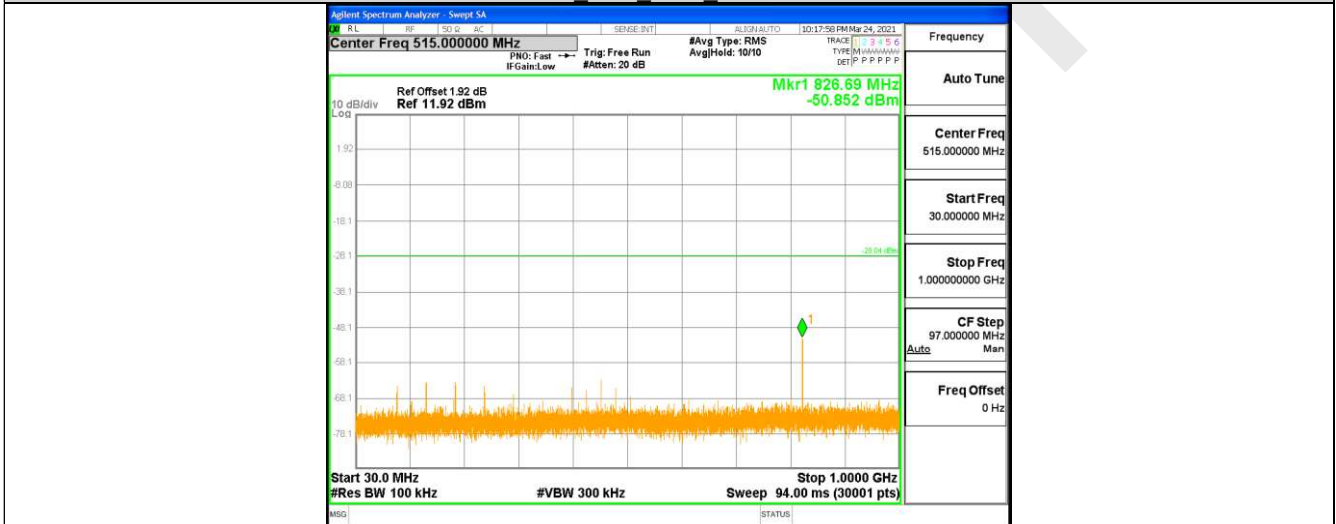
DH1 Ant1 2441 1000~26500



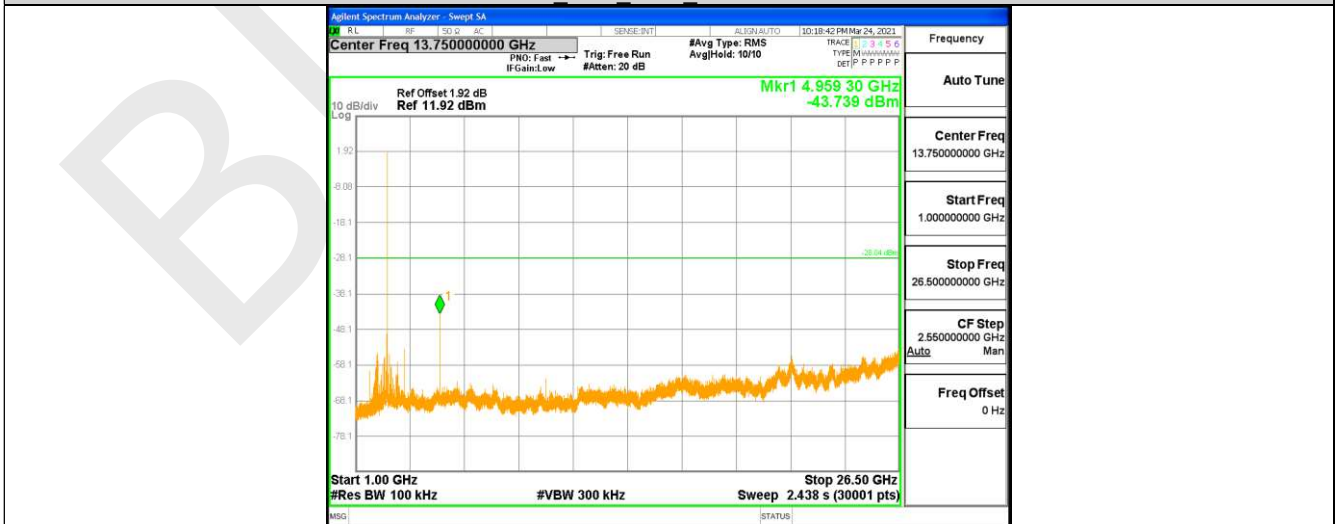
DH1 Ant1 2480 0~Reference



DH1 Ant1 2480 30~1000



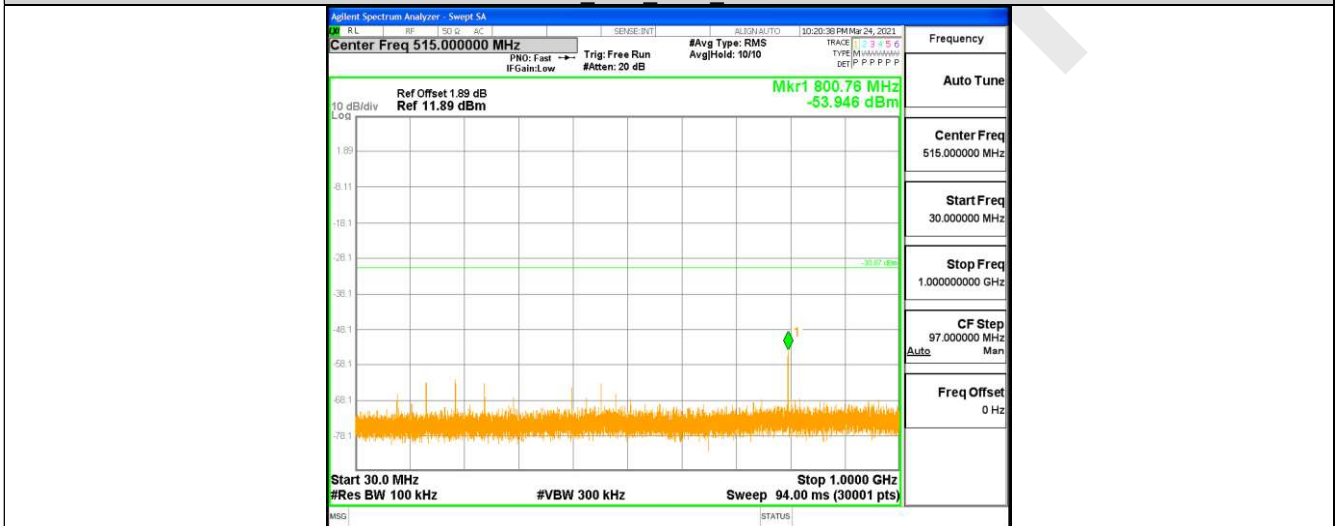
DH1 Ant1 2480 1000~26500



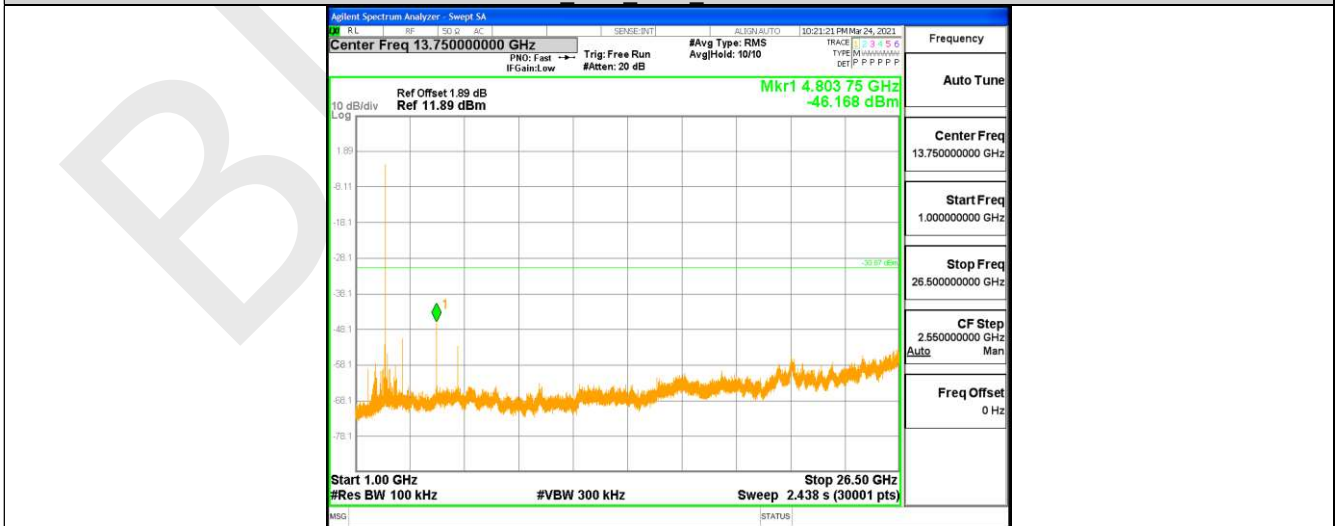
2DH1 Ant1 2402 0~Reference



2DH1_Ant1_2402_30~1000



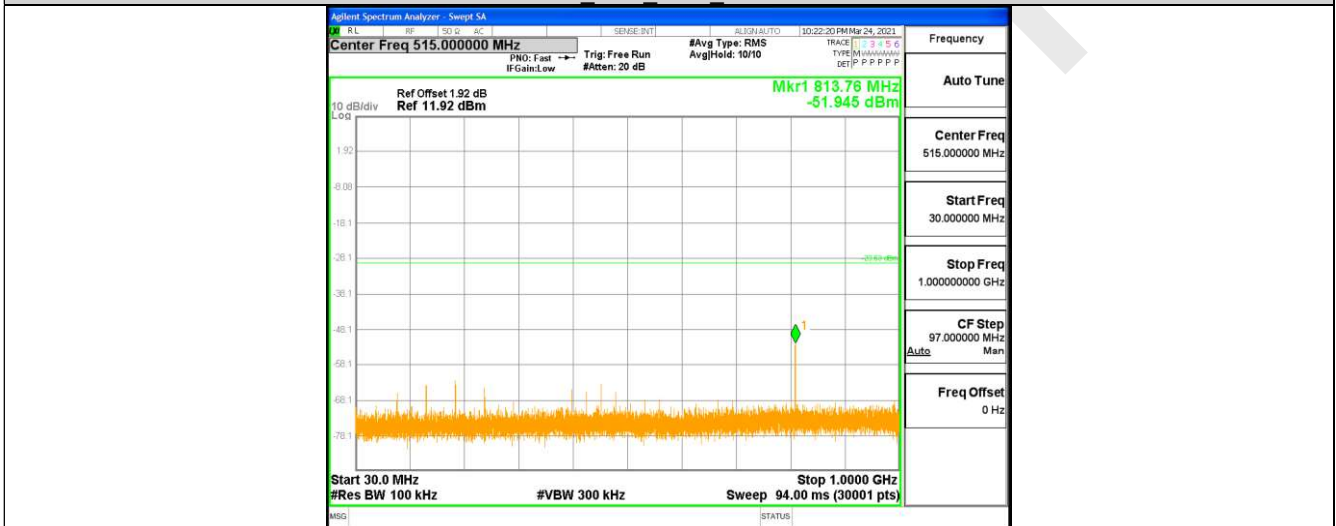
2DH1_Ant1_2402_1000~26500



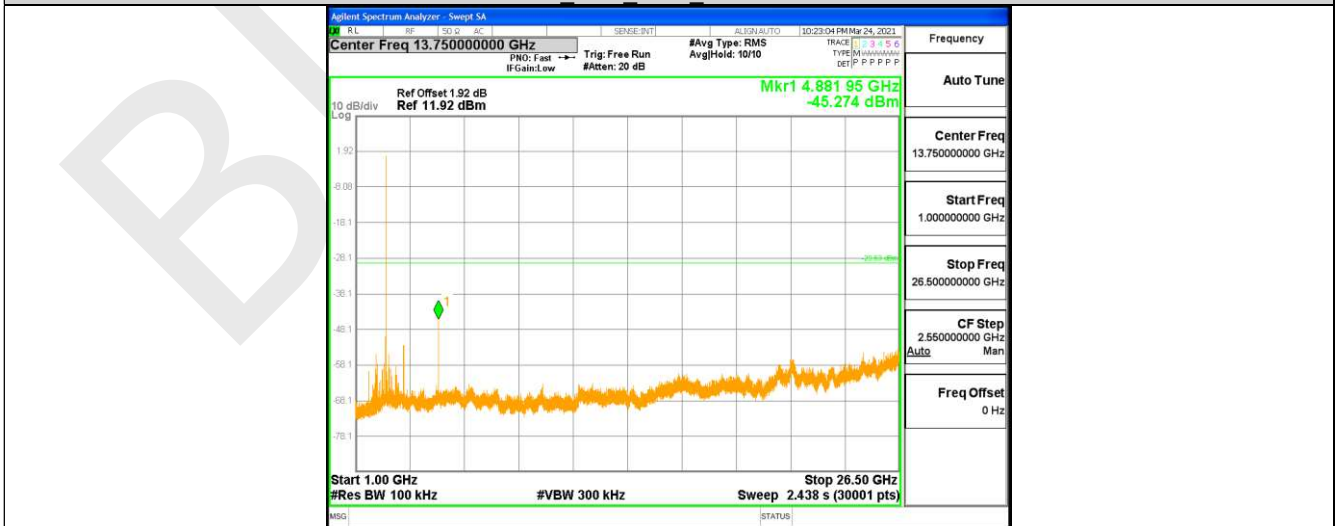
2DH1_Ant1_2441_0~Reference



2DH1 Ant1 2441 30~1000



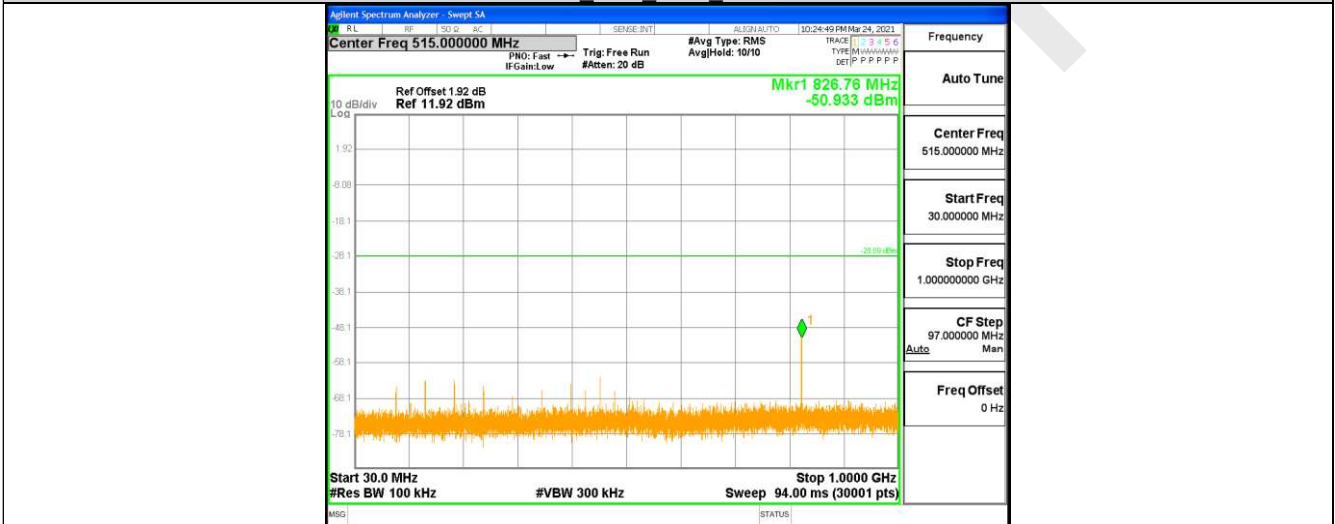
2DH1 Ant1 2441 1000~26500



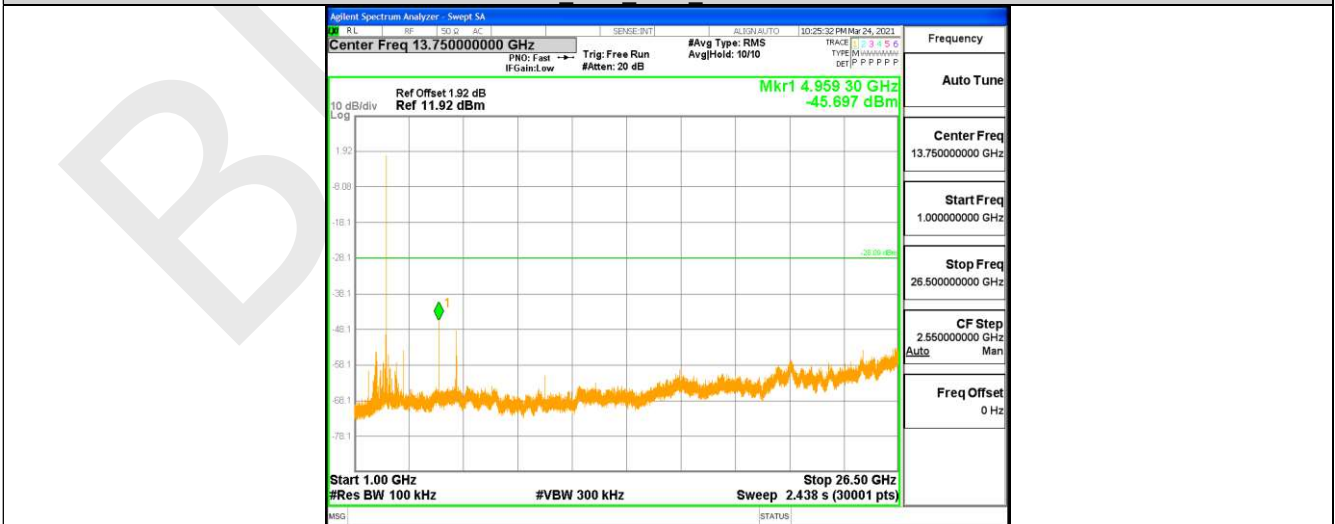
2DH1 Ant1 2480 0~Reference



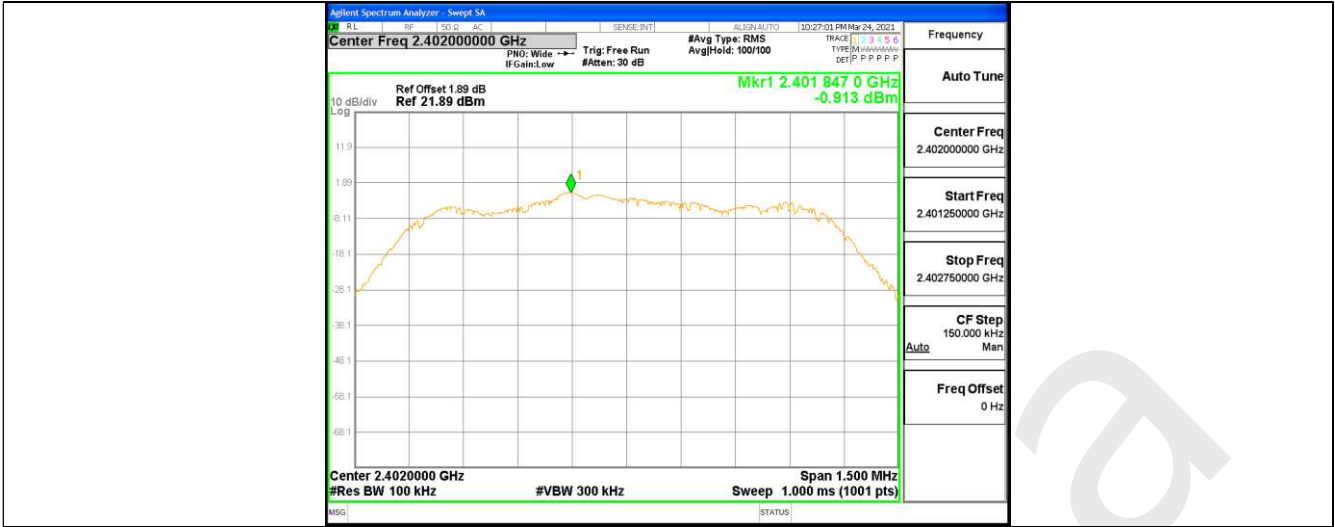
2DH1 Ant1 2480 30~1000



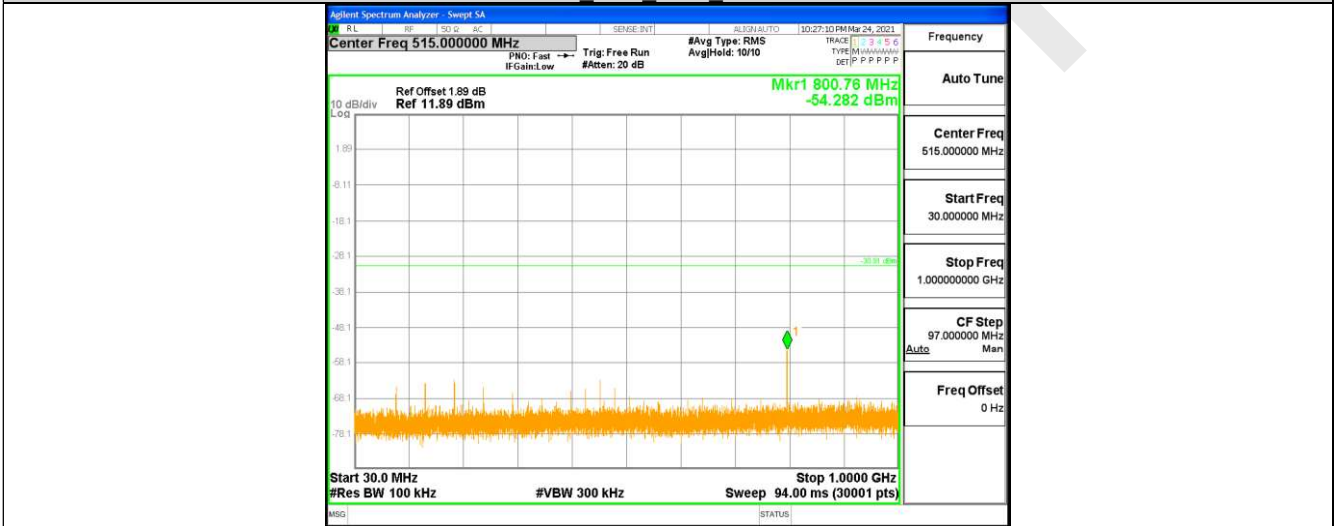
2DH1 Ant1 2480 1000~26500



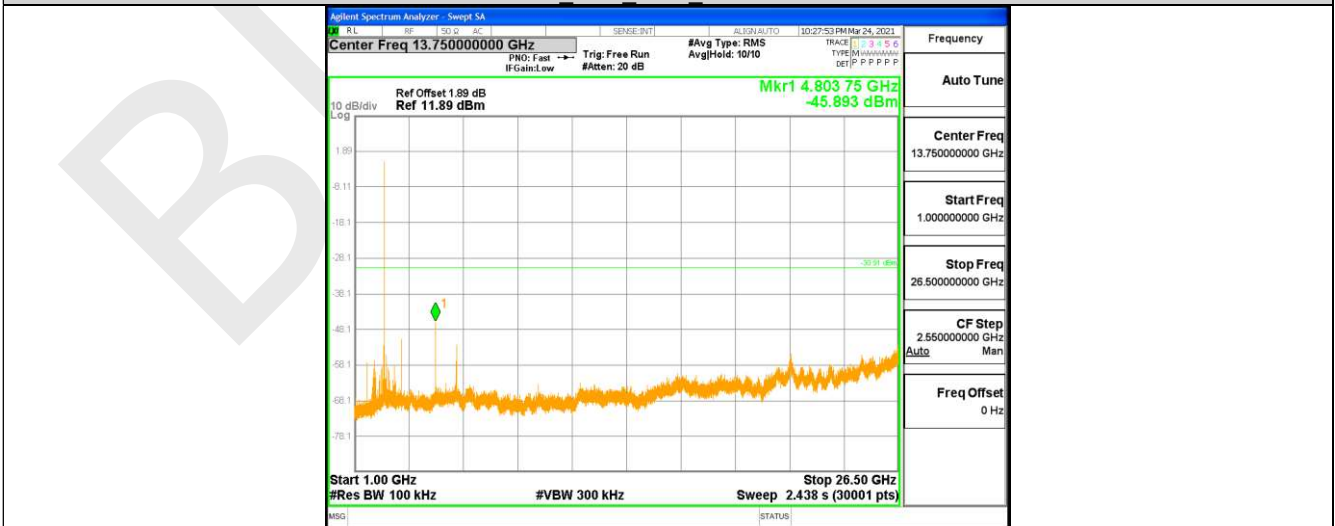
3DH1 Ant1 2402 0~Reference



3DH1 Ant1 2402 30~1000



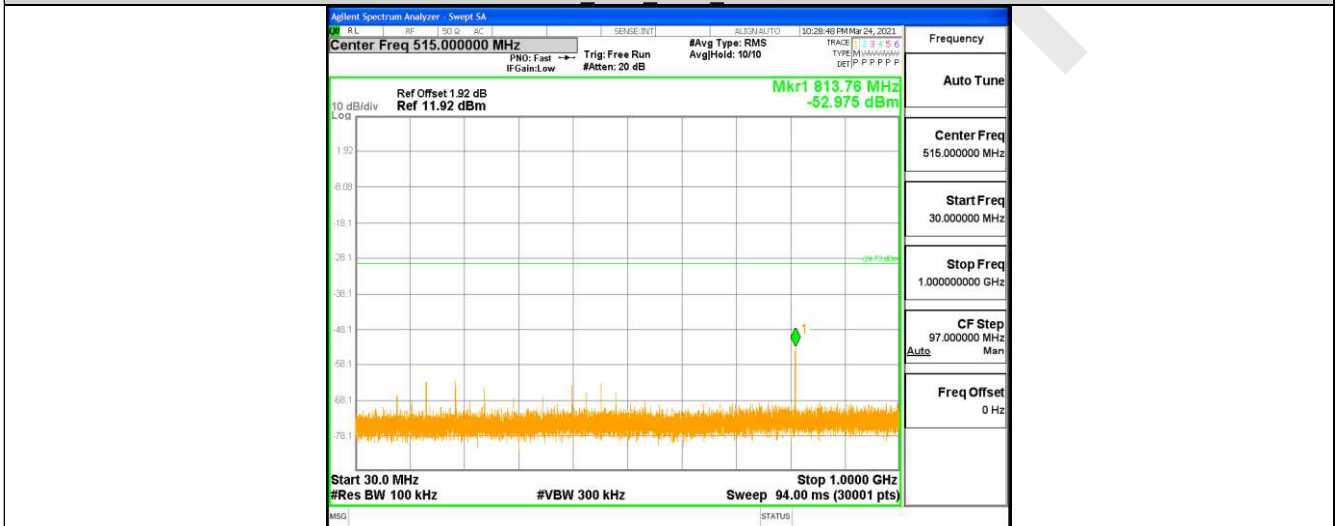
3DH1 Ant1 2402 1000~26500



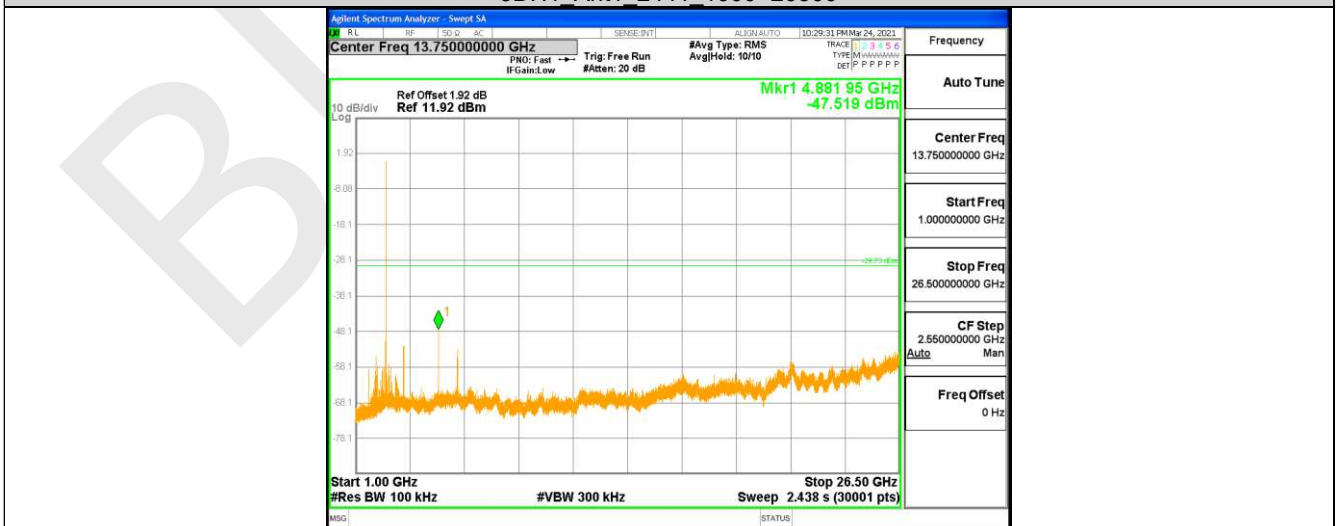
3DH1 Ant1 2441 0~Reference



3DH1 Ant1 2441 30~1000



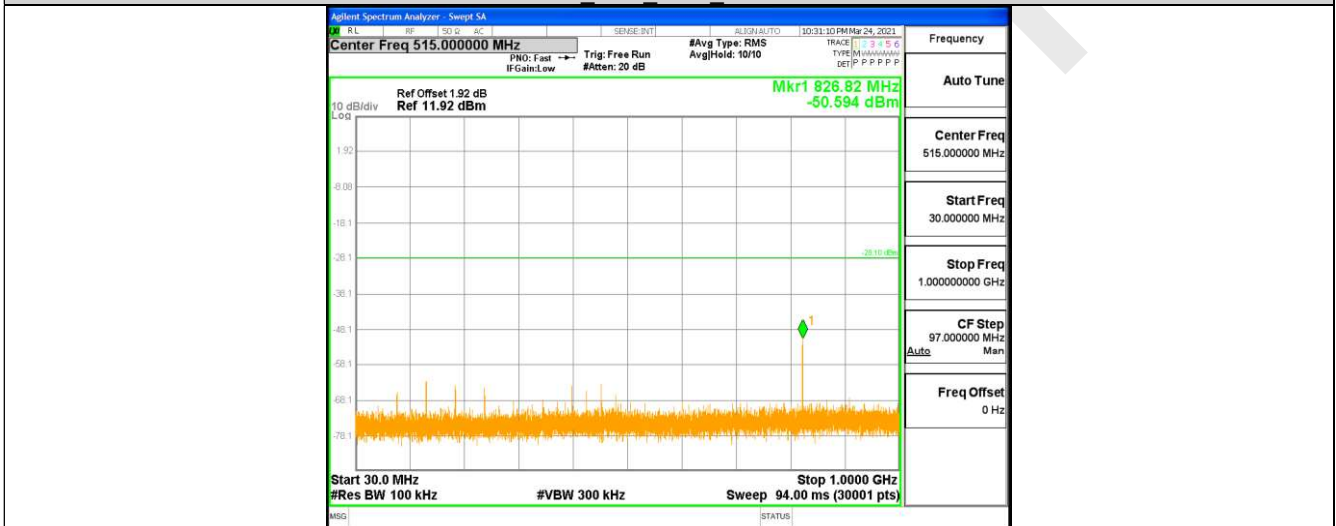
3DH1 Ant1 2441 1000~26500



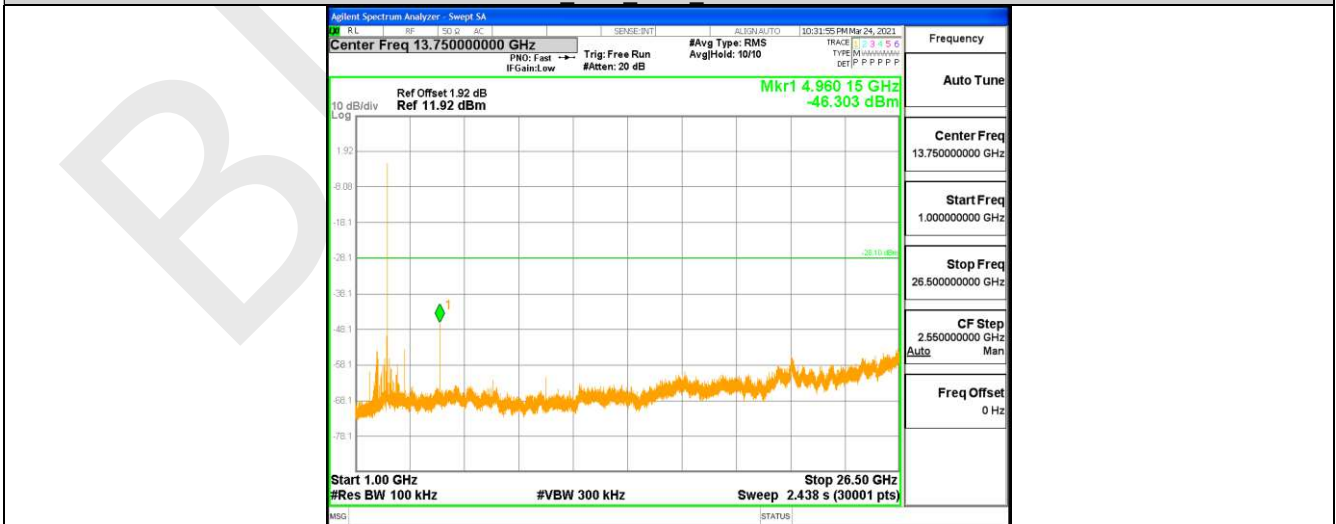
3DH1 Ant1 2480 0~Reference



3DH1 Ant1 2480 30~1000

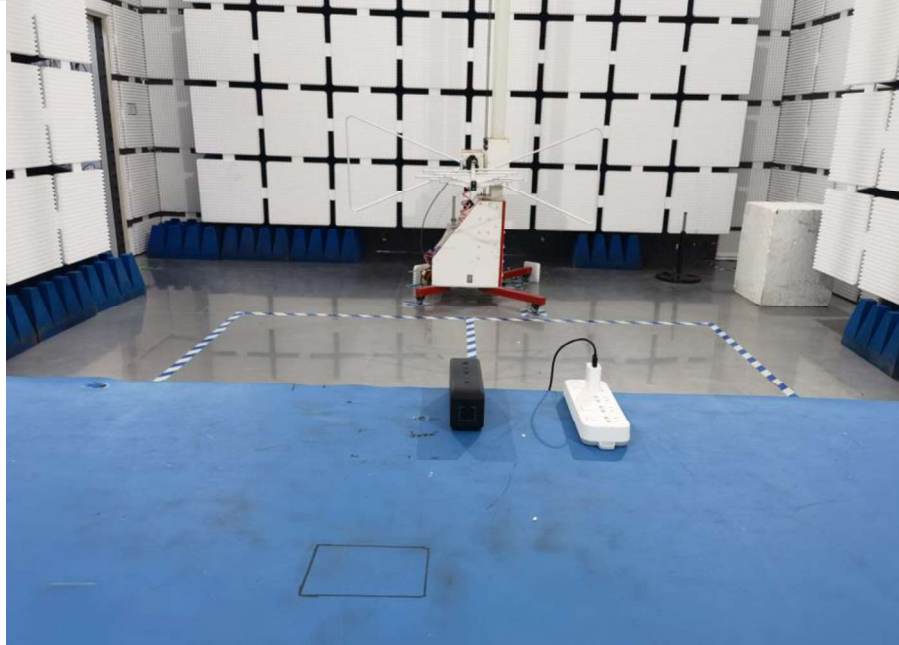


3DH1 Ant1 2480 1000~26500

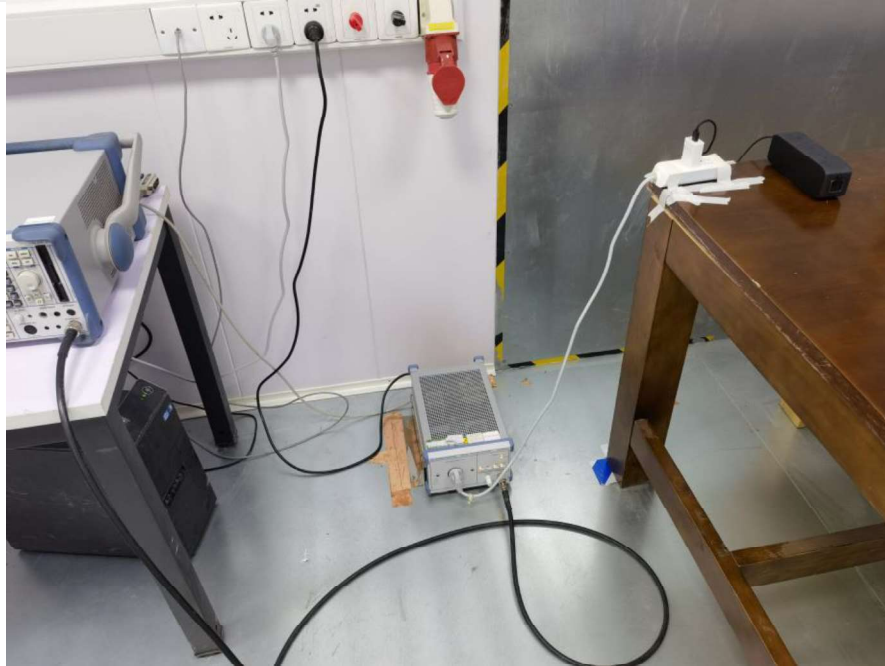


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Radiated Spurious Emissions



Conducted Emissions at AC Power Line (150kHz-30MHz)



APPENDIX B: PHOTOGRAPHS OF EUT

Reference to the test report No. BLA-EMC-202103-A8601

----END OF REPORT----

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