

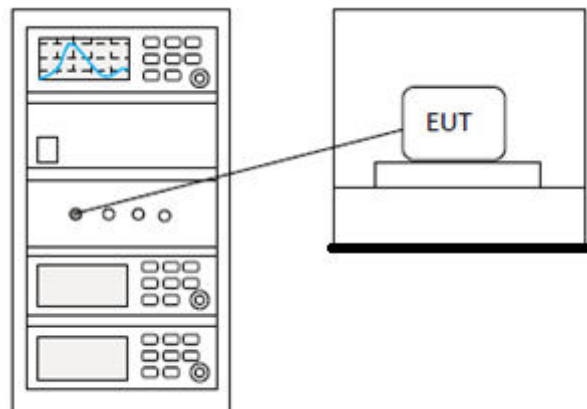
11 HOPPING CHANNEL NUMBER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.3
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

11.1 LIMITS

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth $\geq$ 250kHz
2400-2483.5	15
5725-5850	75

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 TEST DATA

Pass: Please Refer To Appendix: For Details

10 APPENDIX

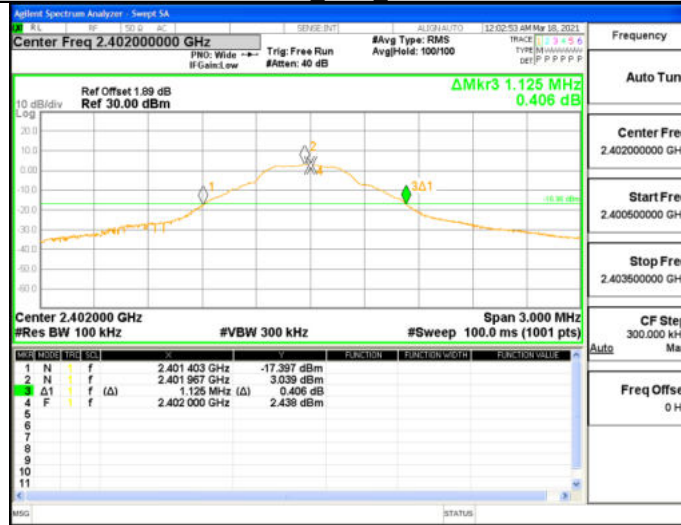
10.1 APPENDIX : 20DB EMISSION BANDWIDTH

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	1.125	2401.403	2402.528	---	PASS
		2441	1.110	2440.418	2441.528	---	PASS
		2480	1.107	2479.421	2480.528	---	PASS
2DH1	Ant1	2402	1.401	2401.271	2402.672	---	PASS
		2441	1.401	2440.271	2441.672	---	PASS
		2480	1.401	2479.271	2480.672	---	PASS
3DH1	Ant1	2402	1.416	2401.271	2402.687	---	PASS
		2441	1.425	2440.262	2441.687	---	PASS
		2480	1.434	2479.256	2480.690	---	PASS

Test Graphs

DH1 Ant1 2402



DH1 Ant1 2441



DH1 Ant1 2480



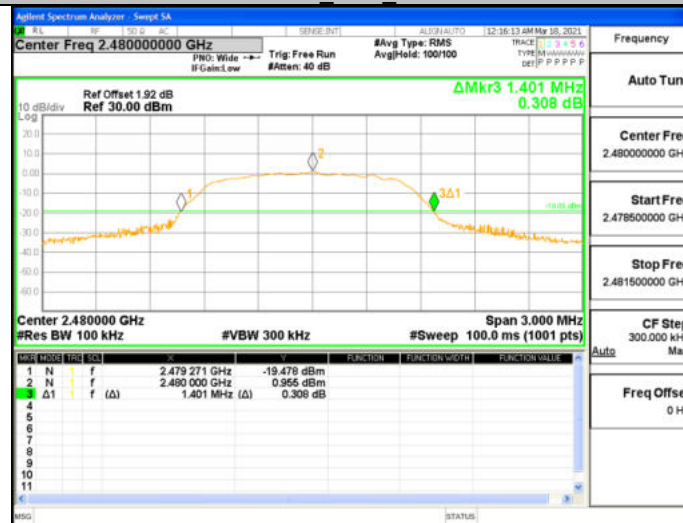
2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



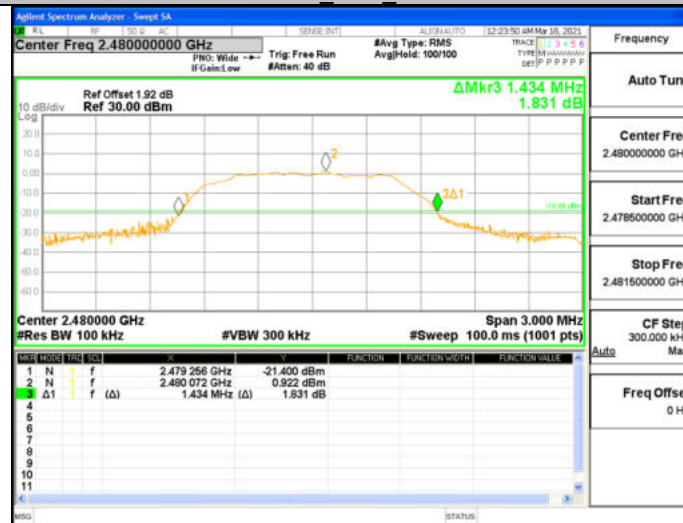
3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



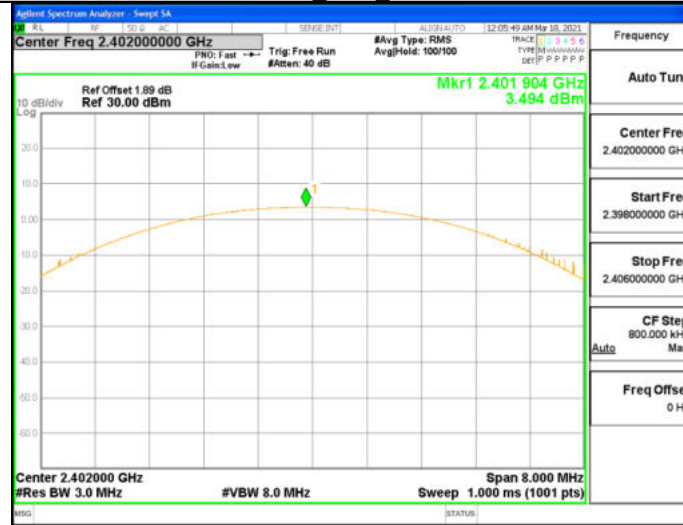
10.2 APPENDIX : MAXIMUM CONDUCTED OUTPUT POWER

Test Result

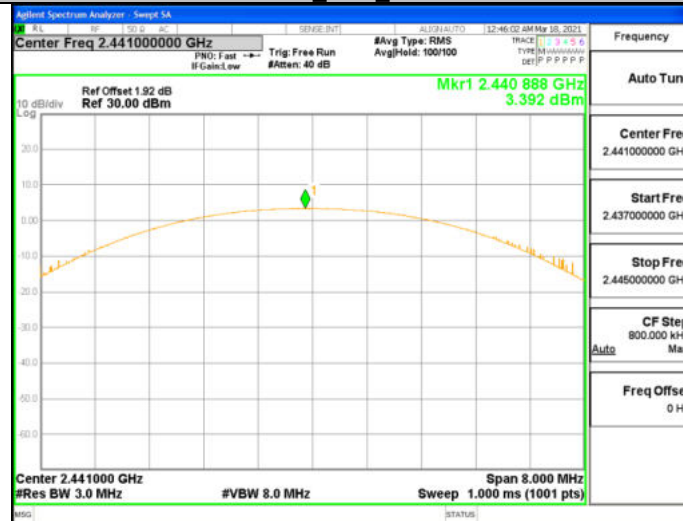
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	3.49	<=20.97	PASS
		2441	3.39	<=20.97	PASS
		2480	2.84	<=20.97	PASS
2DH1	Ant1	2402	5.41	<=20.97	PASS
		2441	5.34	<=20.97	PASS
		2480	4.89	<=20.97	PASS
3DH1	Ant1	2402	5.67	<=20.97	PASS
		2441	5.62	<=20.97	PASS
		2480	5.08	<=20.97	PASS

Test Graphs

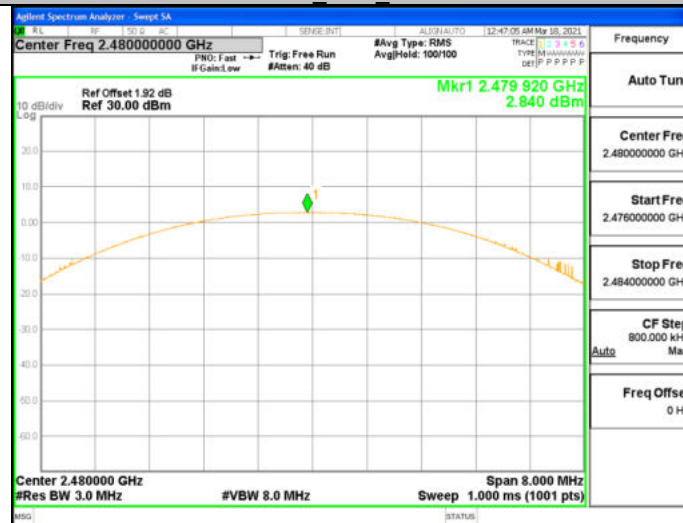
DH1_Ant1_2402



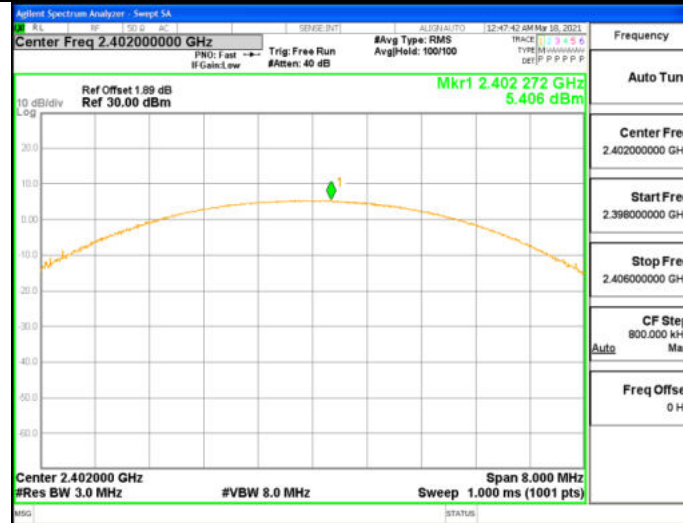
DH1_Ant1_2441



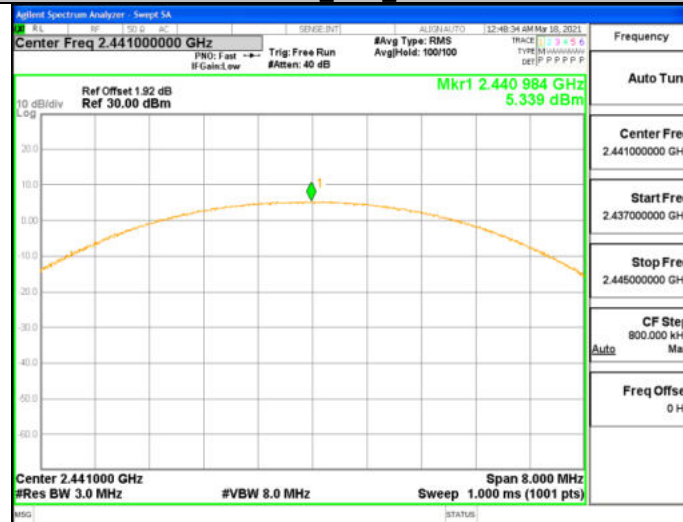
DH1_Ant1_2480



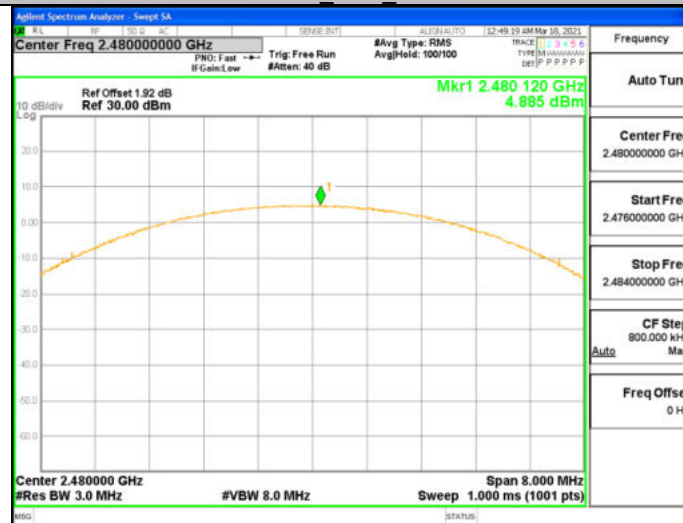
2DH1_Ant1_2402



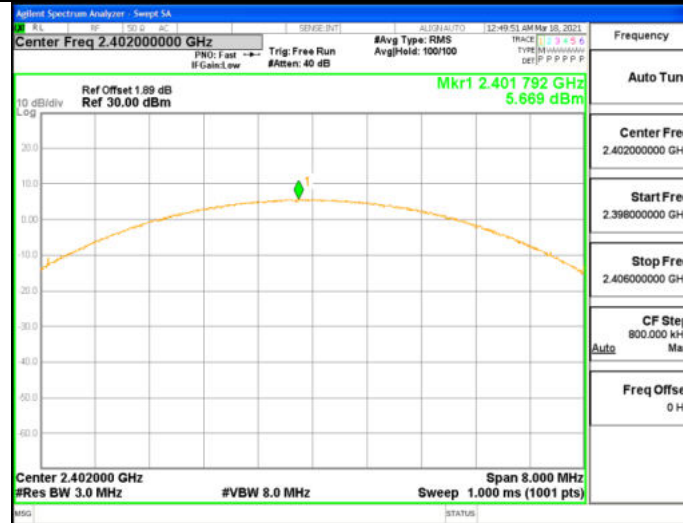
2DH1_Ant1_2441



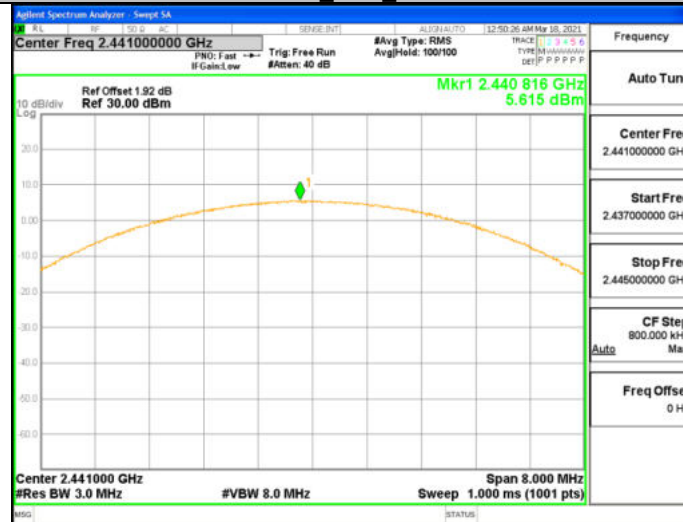
2DH1_Ant1_2480



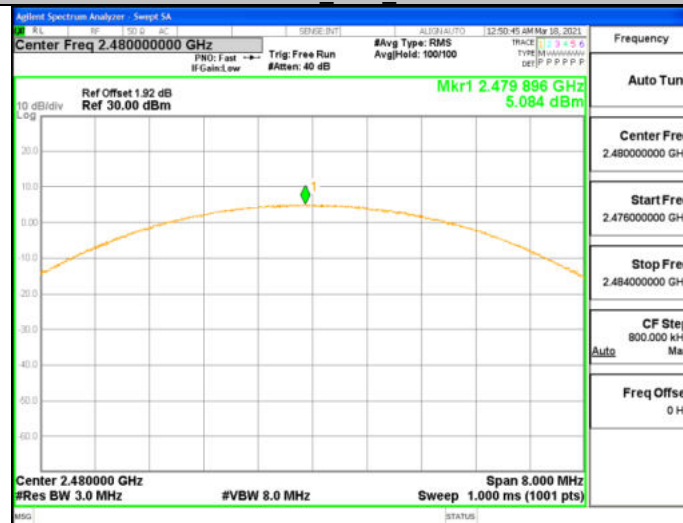
3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480

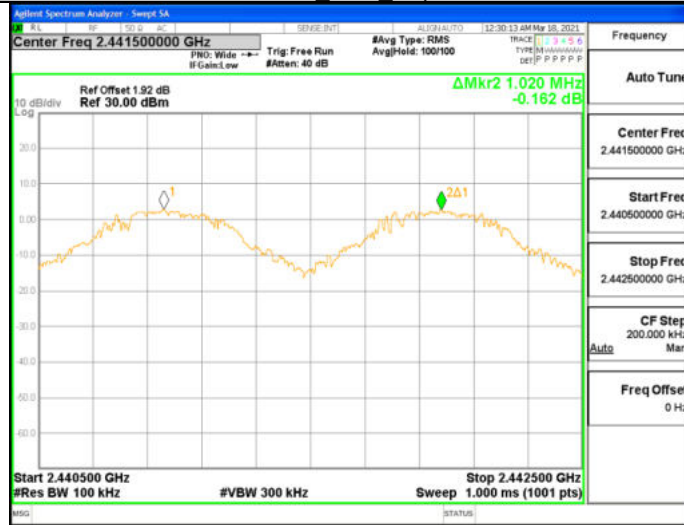


10.3 APPENDIX : CARRIER FREQUENCY SEPARATION**Test Result**

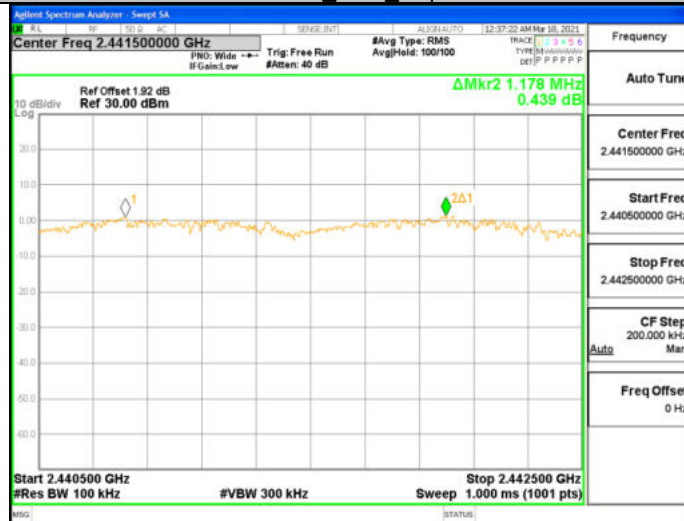
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	1.02	≥ 0.750	PASS
2DH1	Ant1	Hop	1.178	≥ 0.934	PASS
3DH1	Ant1	Hop	1.016	≥ 0.956	PASS

Test Graphs

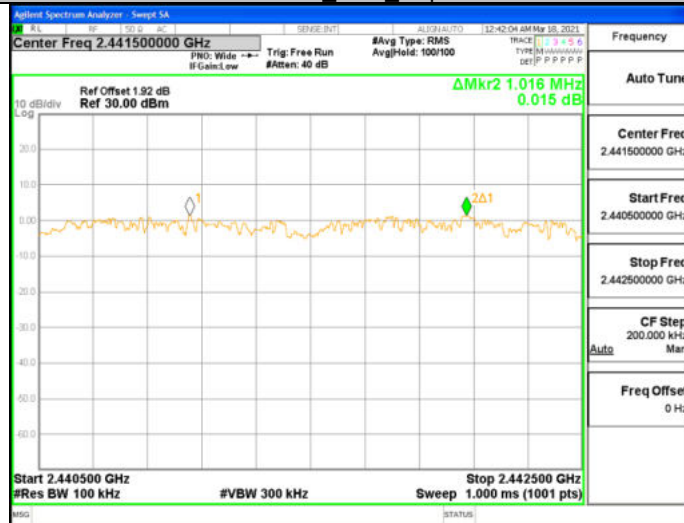
DH1_Ant1_Hop



2DH1_Ant1_Hop



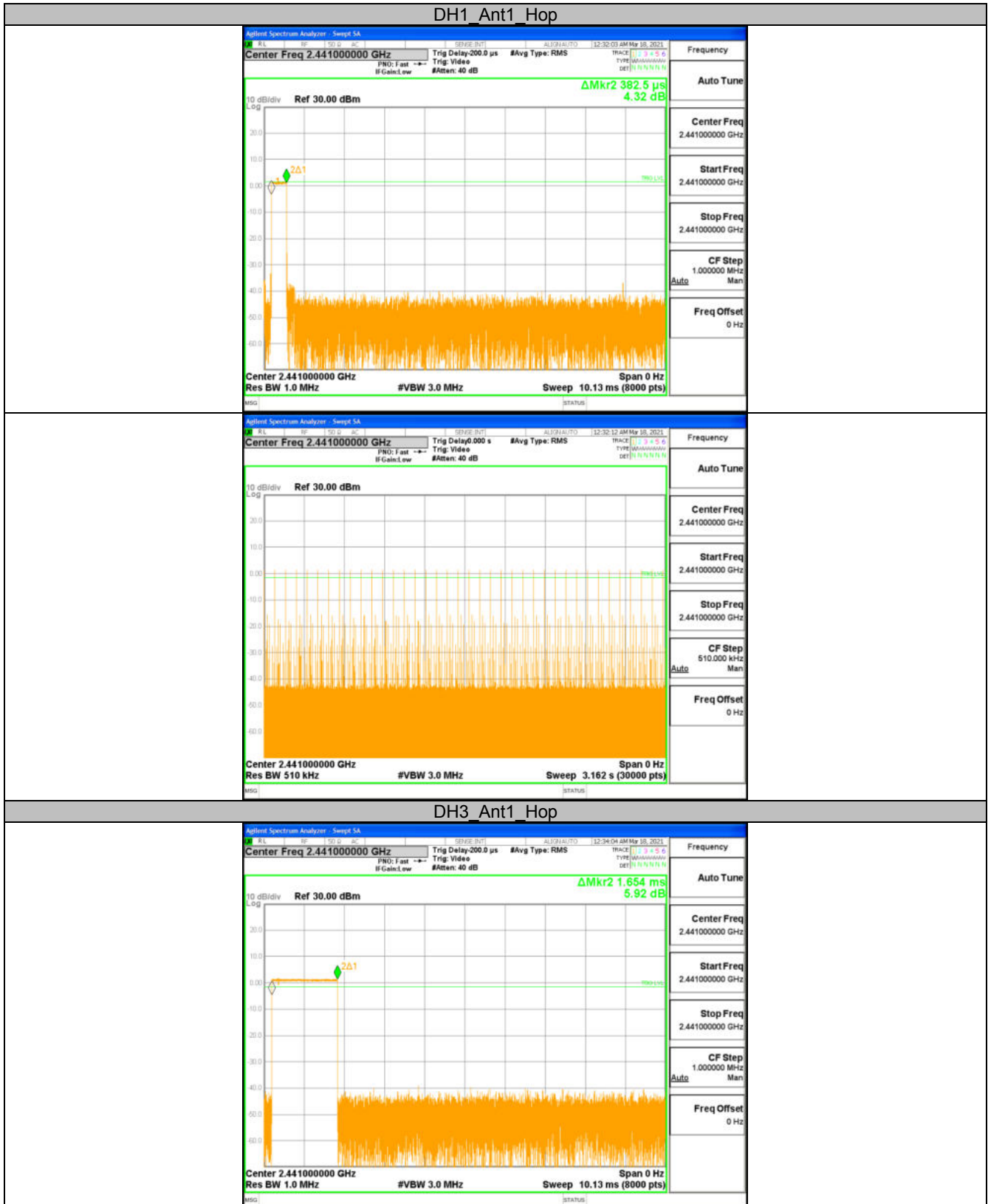
3DH1_Ant1_Hop

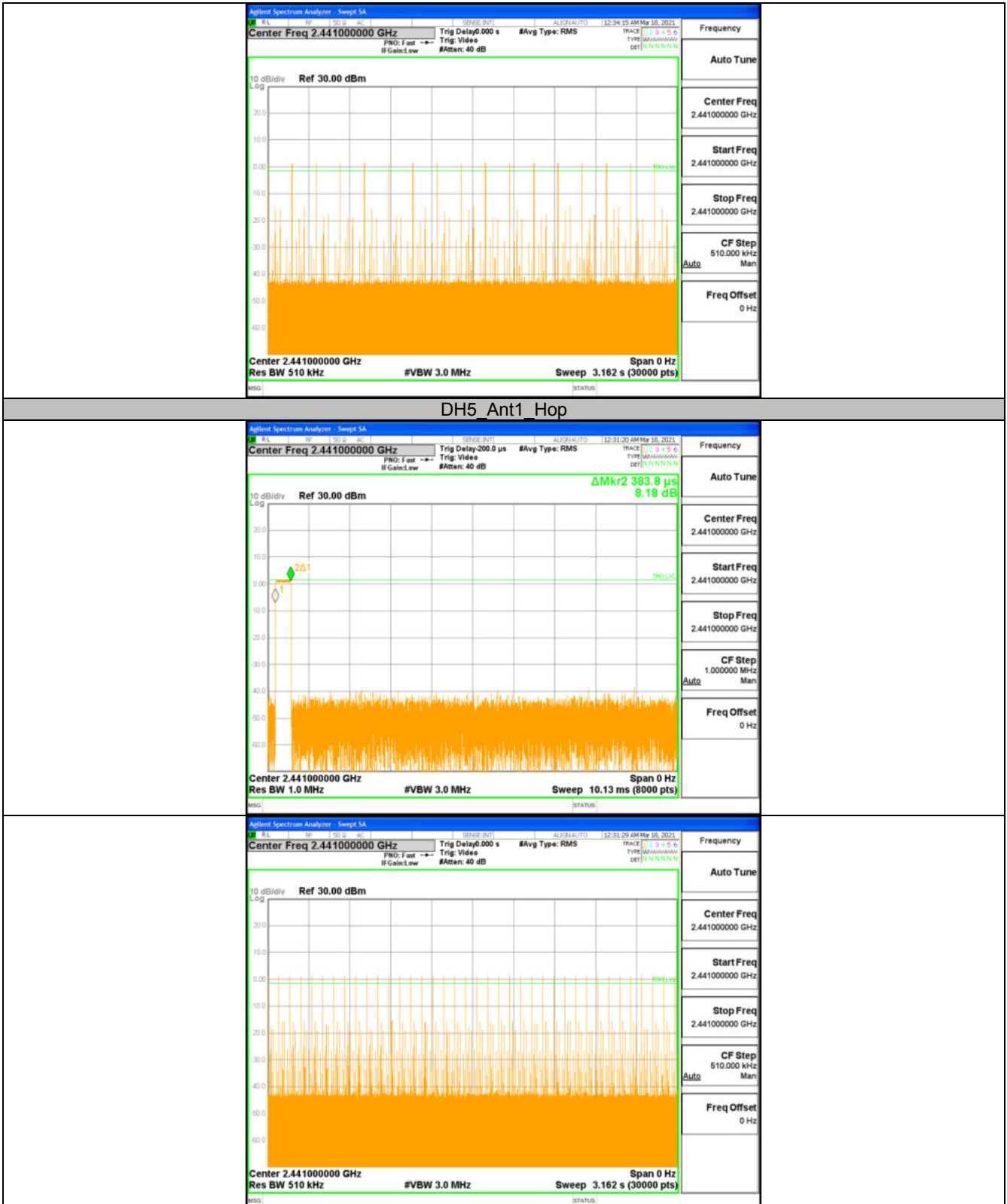


10.4 APPENDIX : TIME OF OCCUPANCY**Test Result**

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	380	0.145	<=0.4	PASS
DH3	Ant1	Hop	1.65	170	0.281	<=0.4	PASS
DH5	Ant1	Hop	0.38	380	0.146	<=0.4	PASS

Test Graphs



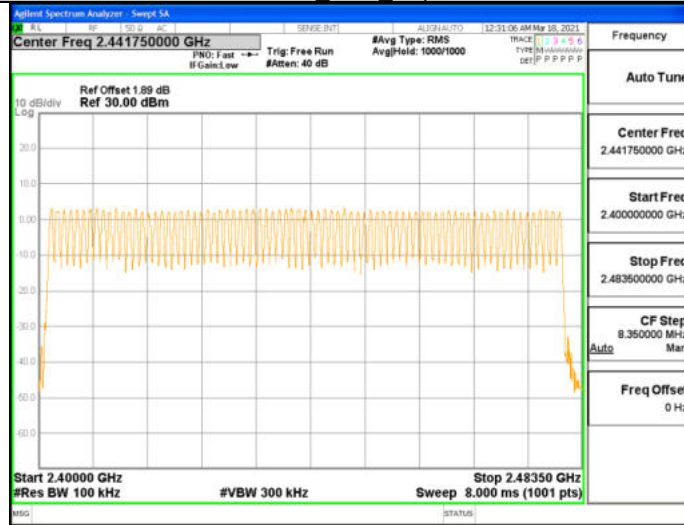


10.5APPENDIX : NUMBER OF HOPPING CHANNELS**Test Result**

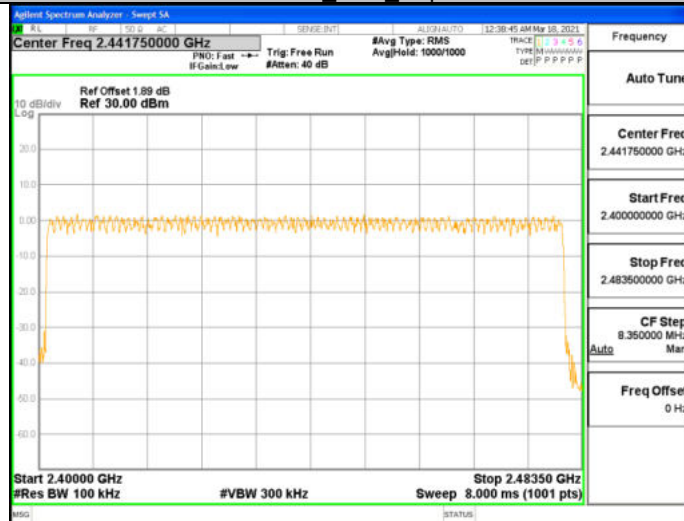
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	>=15	PASS
2DH1	Ant1	Hop	79	>=15	PASS
3DH1	Ant1	Hop	79	>=15	PASS

Test Graphs

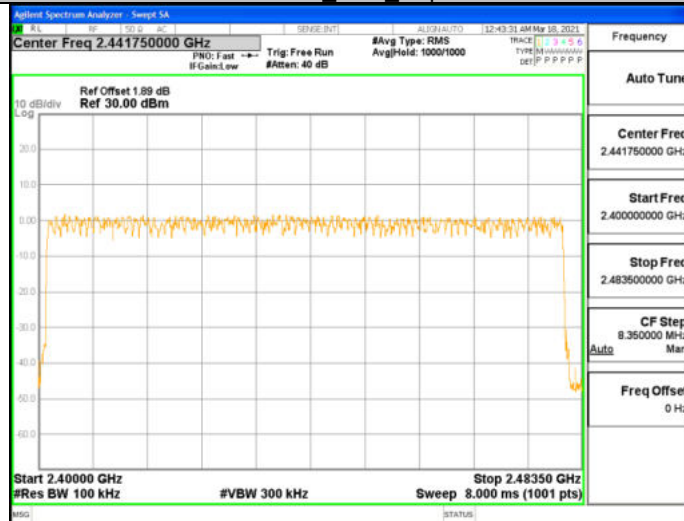
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



10.6 APPENDIX : BAND EDGE MEASUREMENTS

Test Result

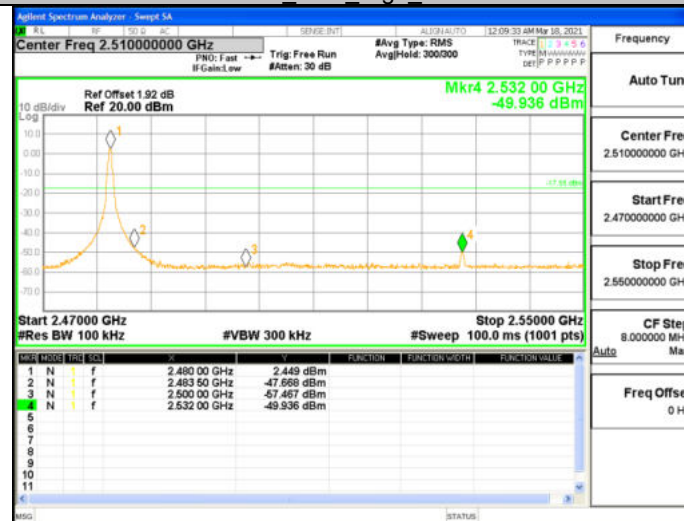
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	2.92	-44.84	<=-17.08	PASS
		High	2480	2.45	-49.94	<=-17.55	PASS
		Low	Hop_2402	2.69	-44.86	-17.31	PASS
		High	Hop_2480	2.40	-40.38	-17.6	PASS
2DH1	Ant1	Low	2402	1.41	-43.96	<=-18.59	PASS
		High	2480	0.85	-51.24	<=-19.15	PASS
		Low	Hop_2402	1.08	-45.22	-18.93	PASS
		High	Hop_2480	0.68	-41.58	-19.32	PASS
3DH1	Ant1	Low	2402	1.31	-46.85	<=-18.69	PASS
		High	2480	0.83	-50.66	<=-19.17	PASS
		Low	Hop_2402	1.25	-44.61	-18.75	PASS
		High	Hop_2480	0.39	-41.89	-19.61	PASS

Test Graphs

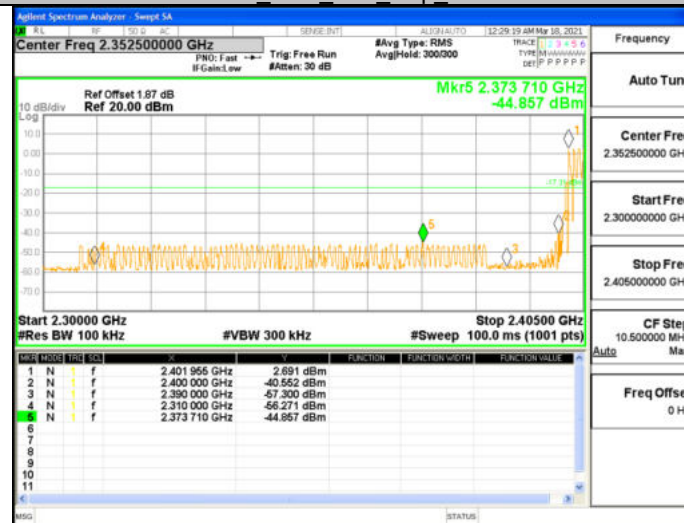
DH1_Ant1_Low_2402



DH1_Ant1_High_2480

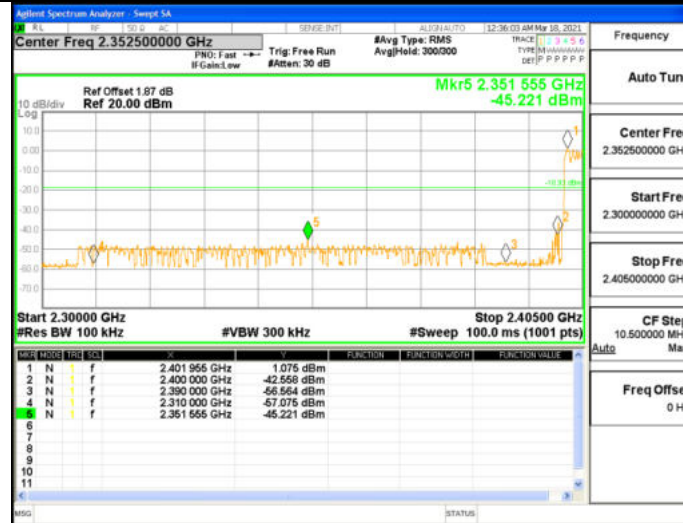


DH1_Ant1_Low_Hop_2402

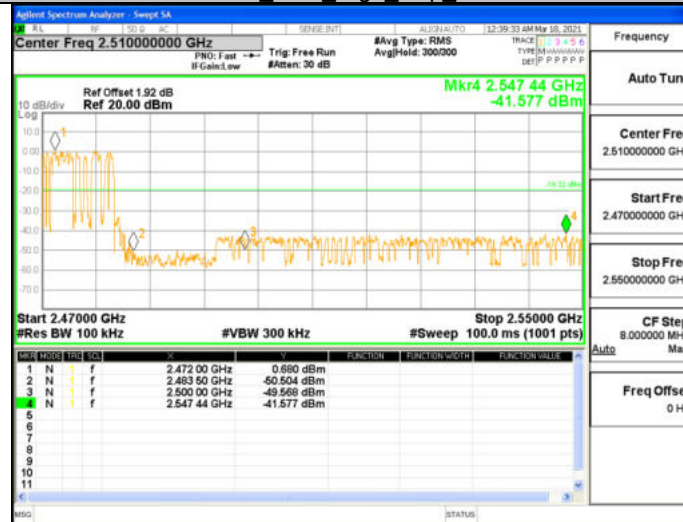




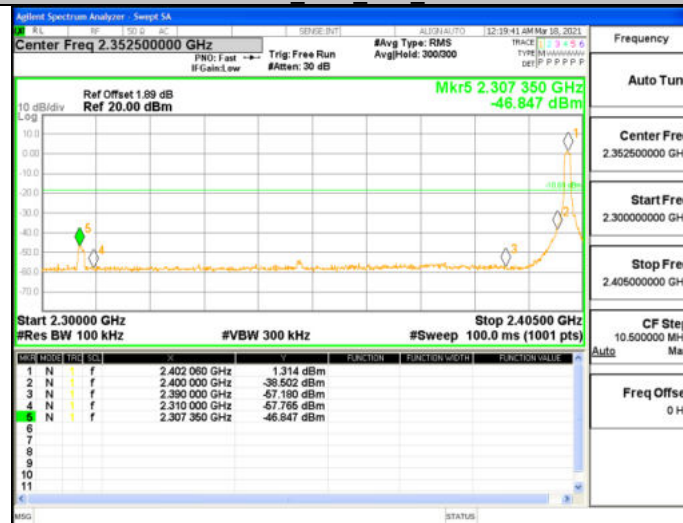
2DH1_Ant1_Low_Hop_2402



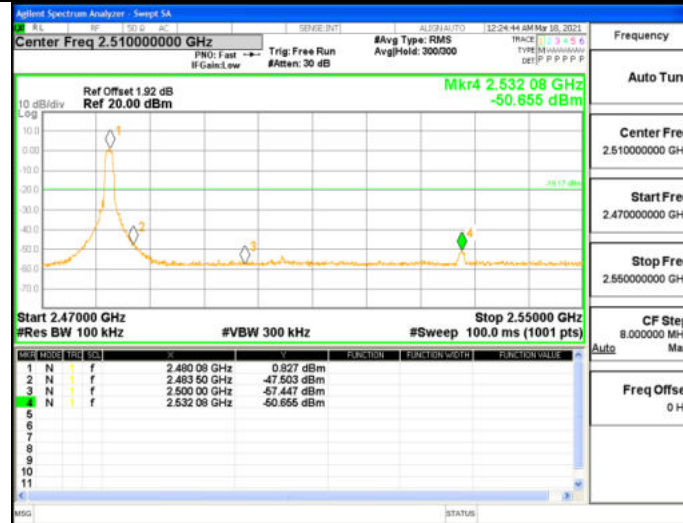
2DH1_Ant1_High_Hop_2480



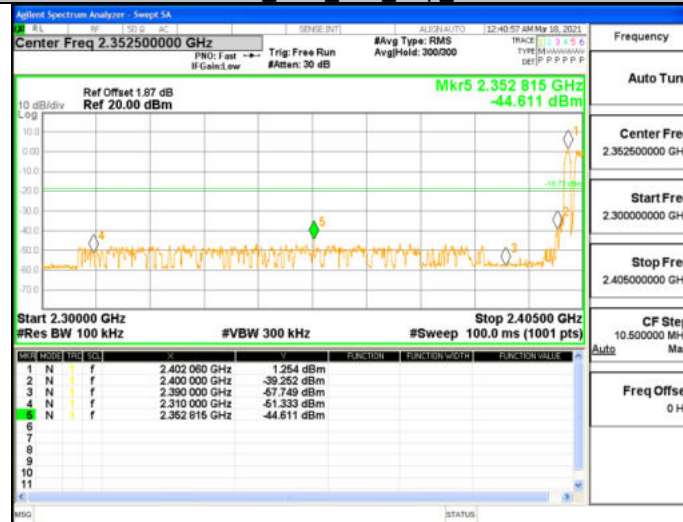
3DH1_Ant1_Low_2402



3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

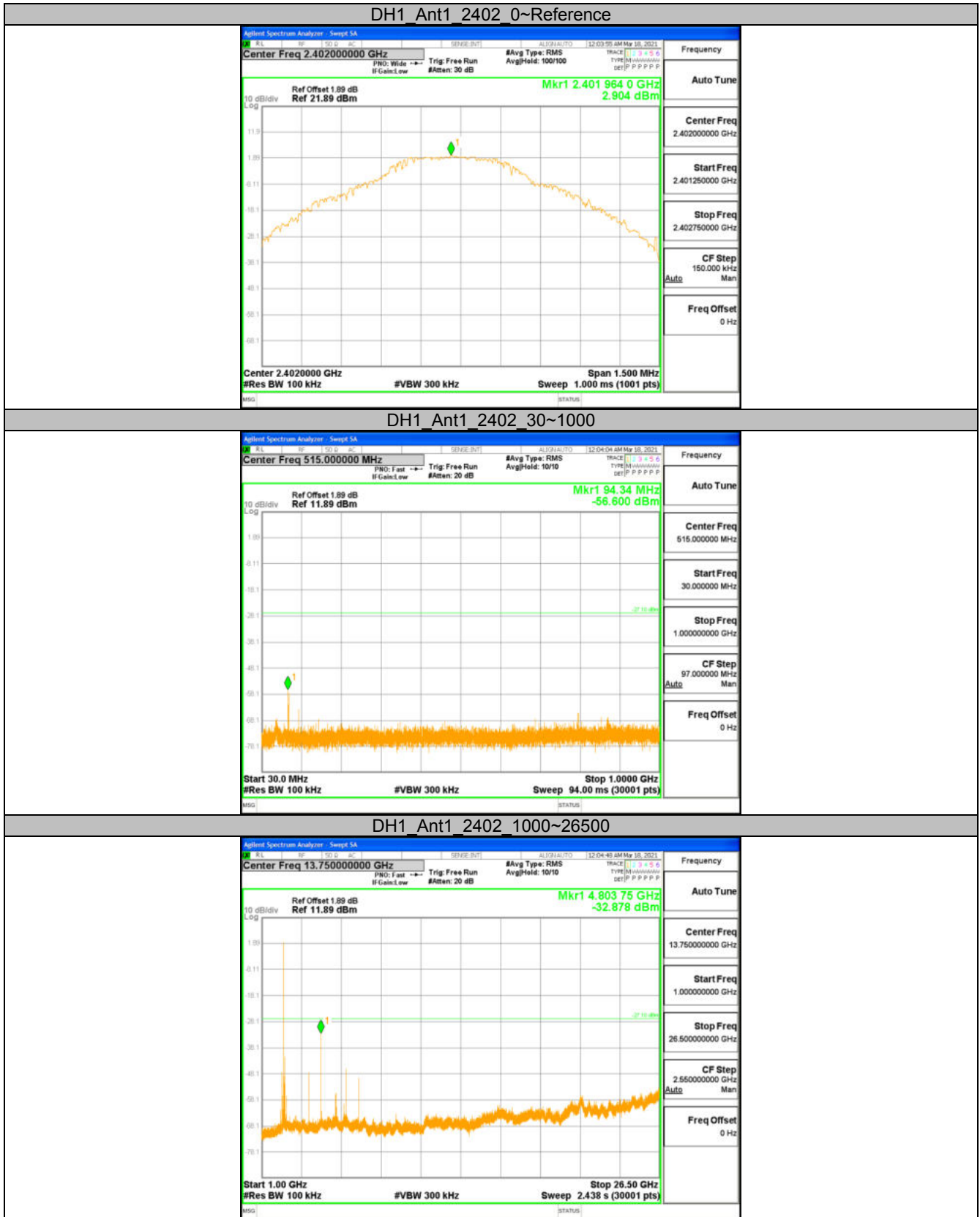


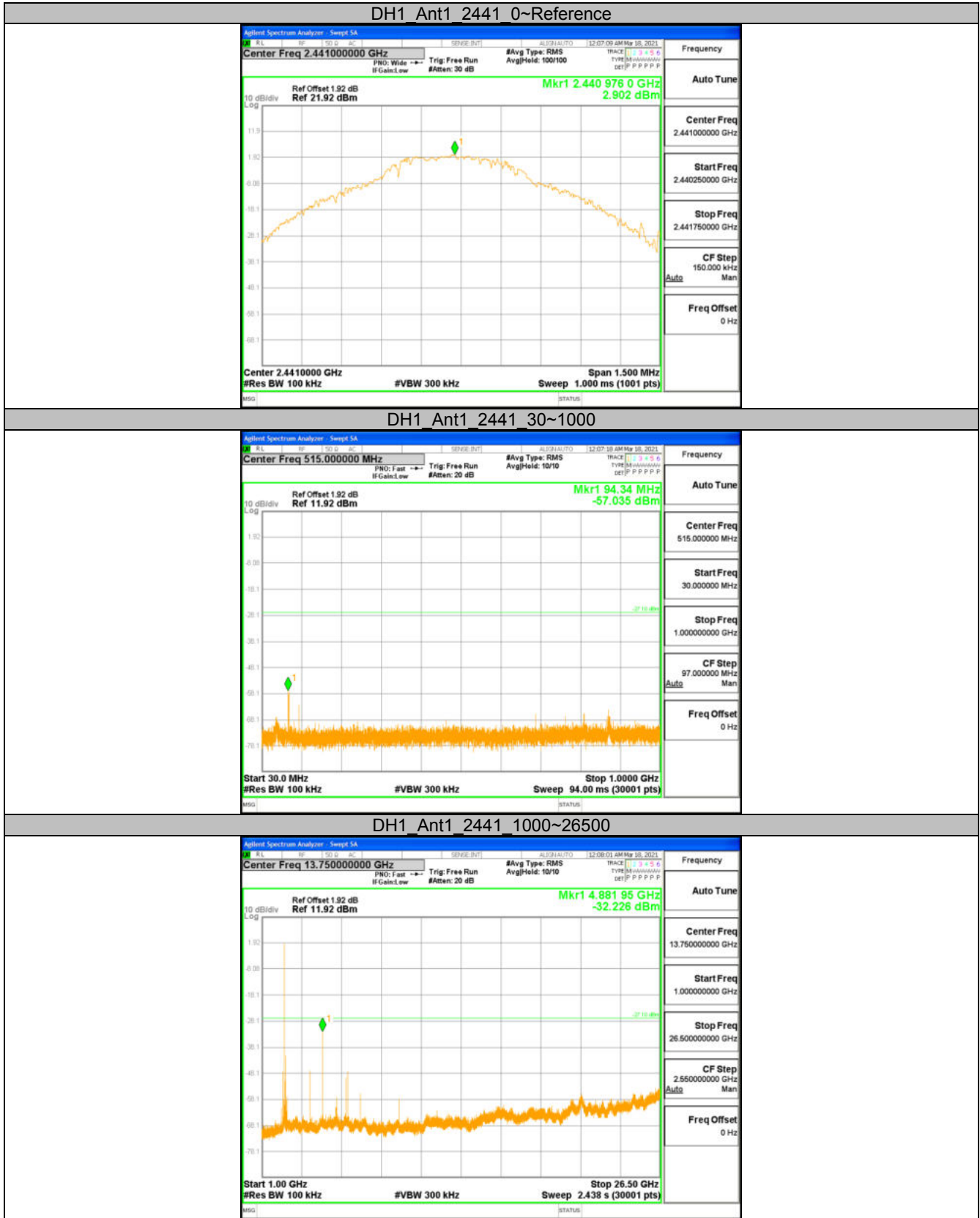
10.7 APPENDIX : CONDUCTED SPURIOUS EMISSION

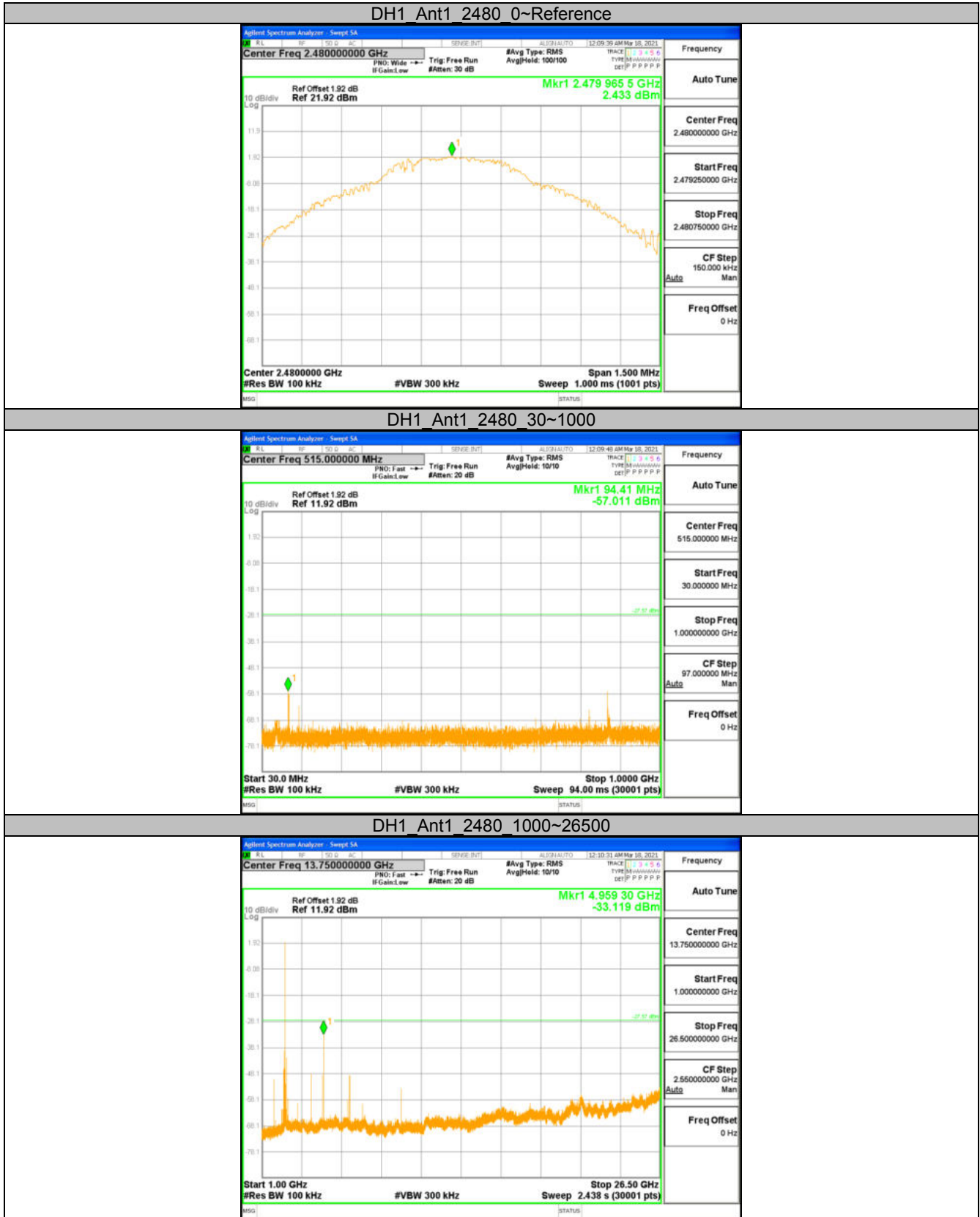
Test Result

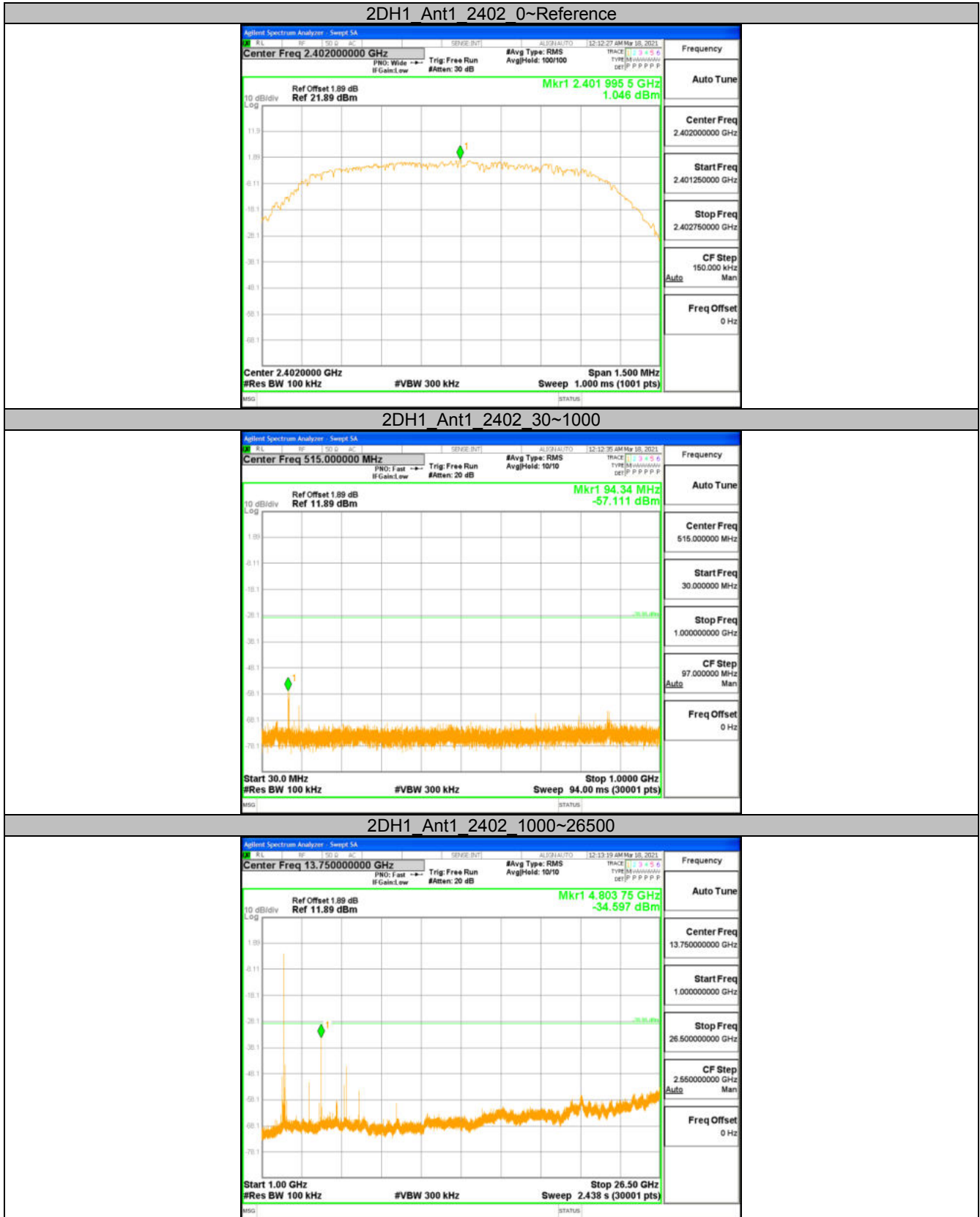
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	2.90	2.90	---	PASS
			30~1000	30~1000	-56.6	<=-27.096	PASS
			1000~26500	1000~26500	-32.878	<=-27.096	PASS
		2441	Reference	2.90	2.90	---	PASS
			30~1000	30~1000	-57.035	<=-27.098	PASS
			1000~26500	1000~26500	-32.226	<=-27.098	PASS
		2480	Reference	2.43	2.43	---	PASS
			30~1000	30~1000	-57.011	<=-27.567	PASS
			1000~26500	1000~26500	-33.119	<=-27.567	PASS
2DH1	Ant1	2402	Reference	1.05	1.05	---	PASS
			30~1000	30~1000	-57.111	<=-28.954	PASS
			1000~26500	1000~26500	-34.597	<=-28.954	PASS
		2441	Reference	1.17	1.17	---	PASS
			30~1000	30~1000	-56.629	<=-28.831	PASS
			1000~26500	1000~26500	-34.162	<=-28.831	PASS
		2480	Reference	0.69	0.69	---	PASS
			30~1000	30~1000	-56.791	<=-29.313	PASS
			1000~26500	1000~26500	-34.944	<=-29.313	PASS
3DH1	Ant1	2402	Reference	1.33	1.33	---	PASS
			30~1000	30~1000	-55.809	<=-28.671	PASS
			1000~26500	1000~26500	-34.015	<=-28.671	PASS
		2441	Reference	1.30	1.30	---	PASS
			30~1000	30~1000	-56.438	<=-28.703	PASS
			1000~26500	1000~26500	-34.115	<=-28.703	PASS
		2480	Reference	0.71	0.71	---	PASS
			30~1000	30~1000	-56.64	<=-29.286	PASS
			1000~26500	1000~26500	-33.798	<=-29.286	PASS

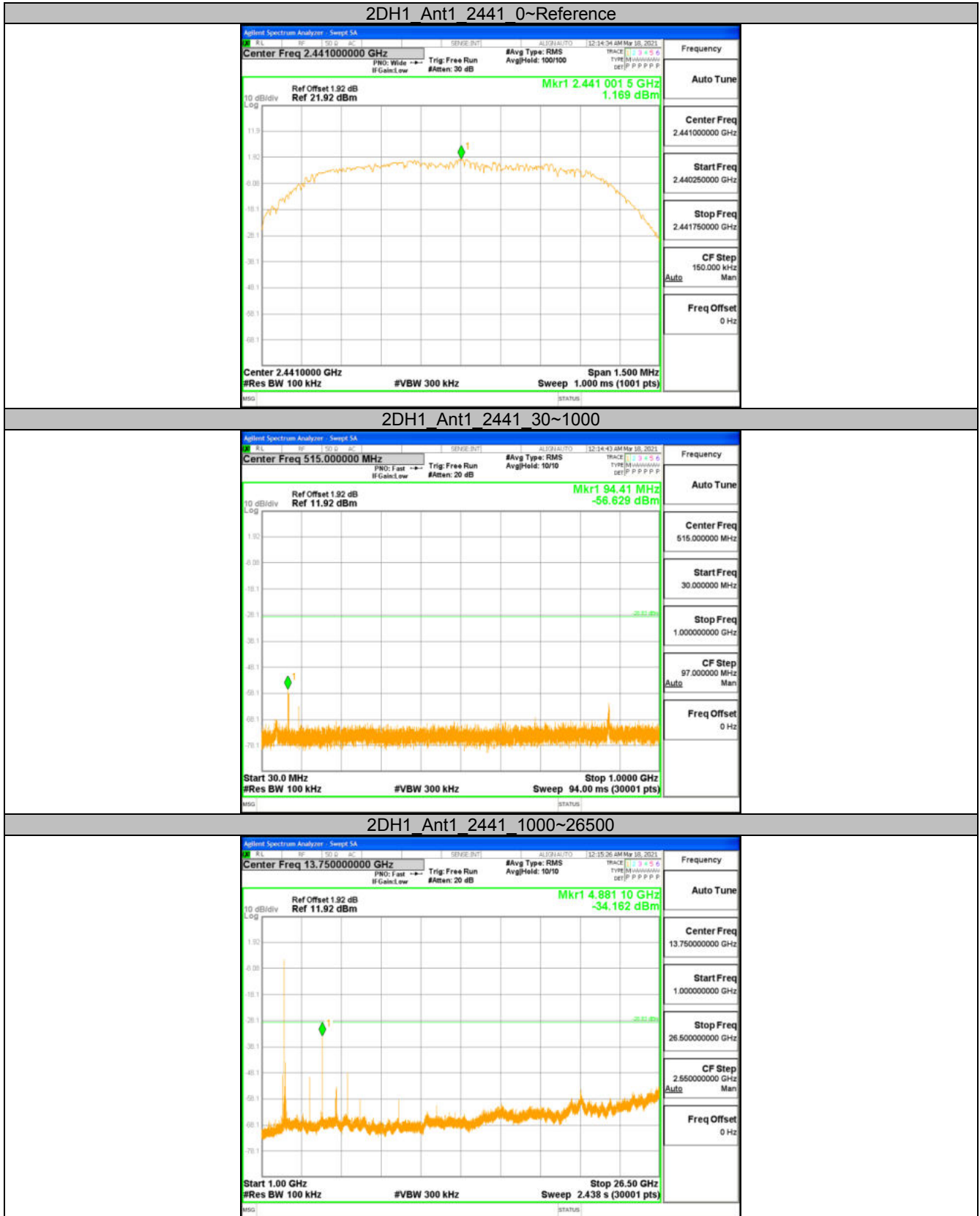
Test Graphs

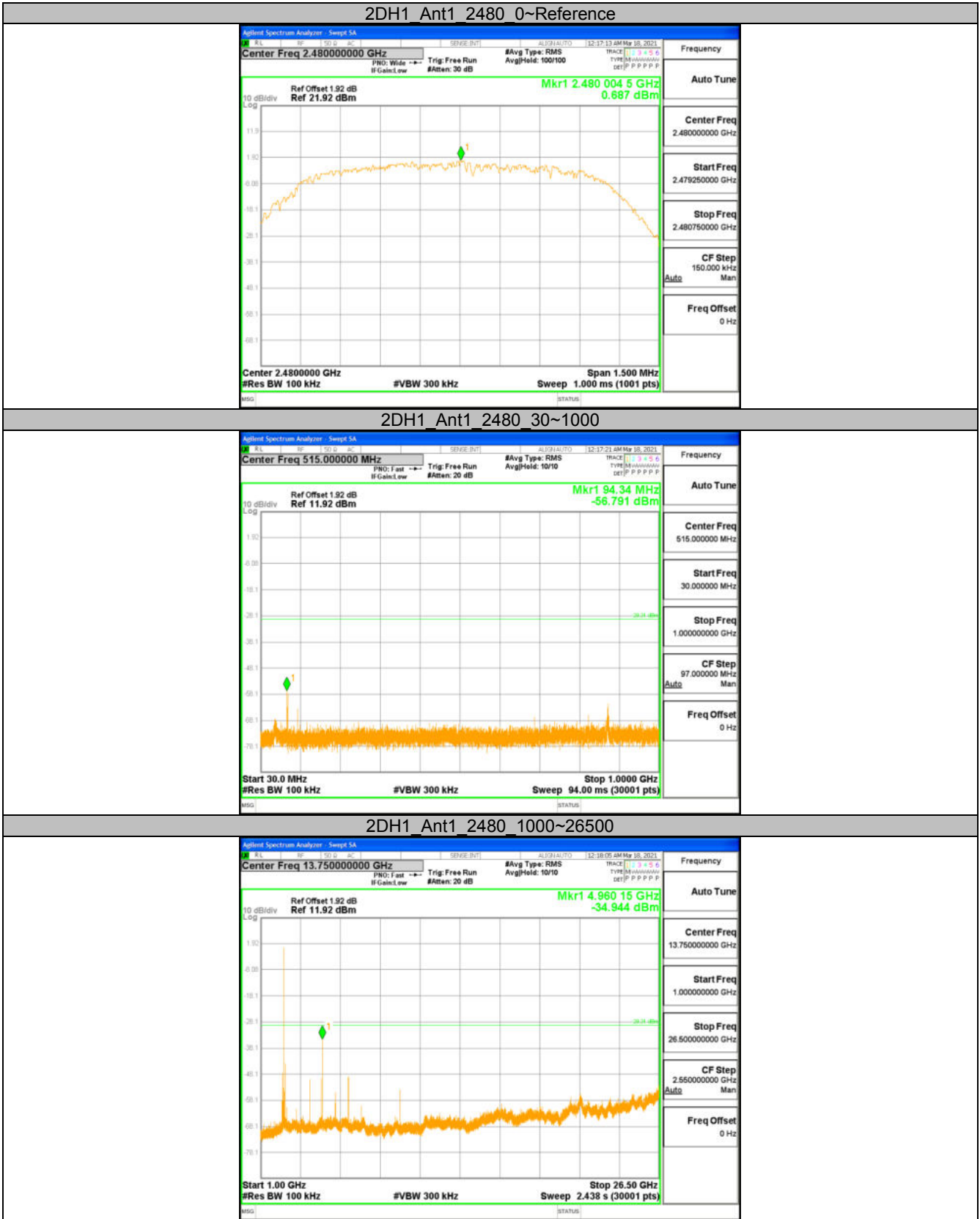


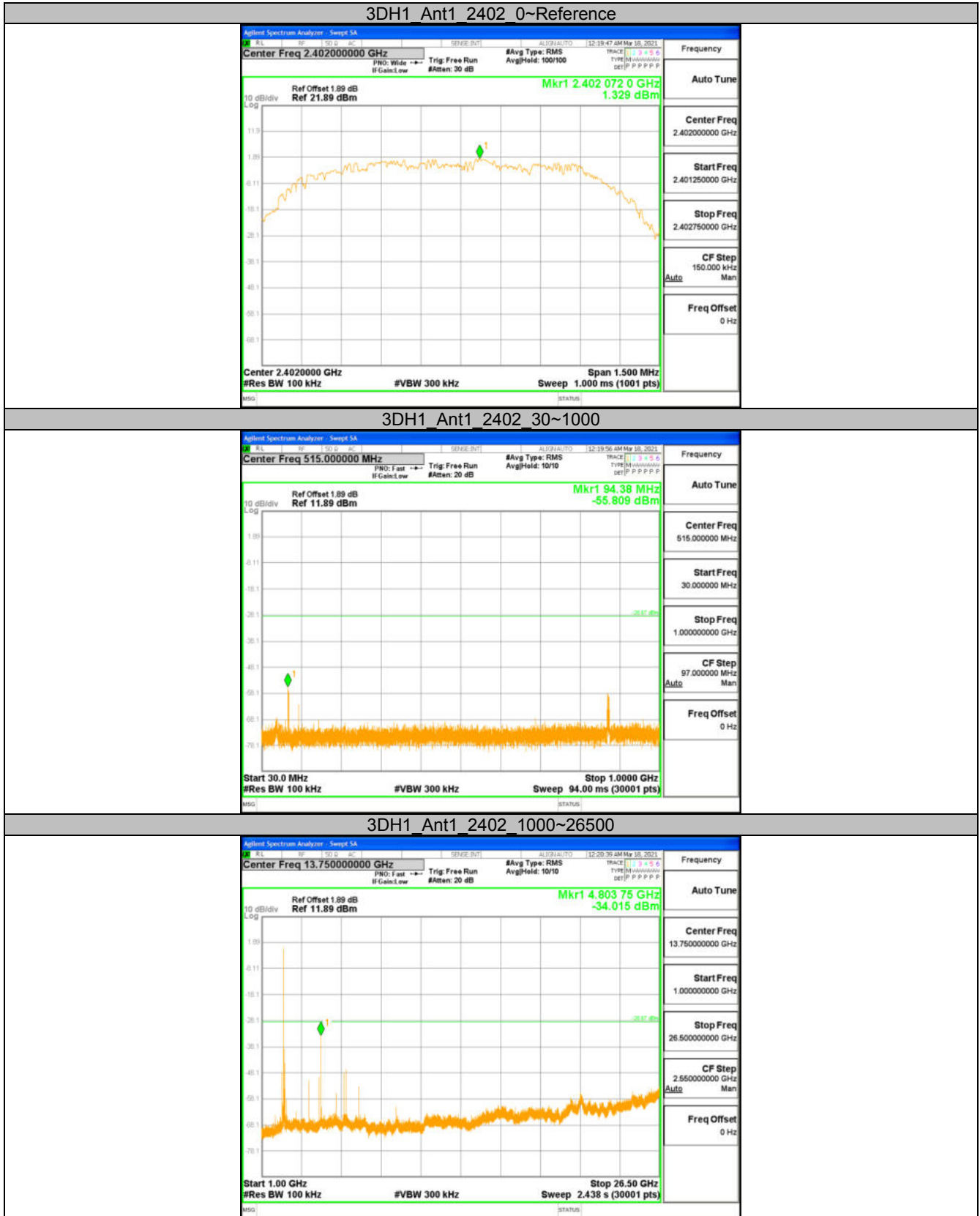


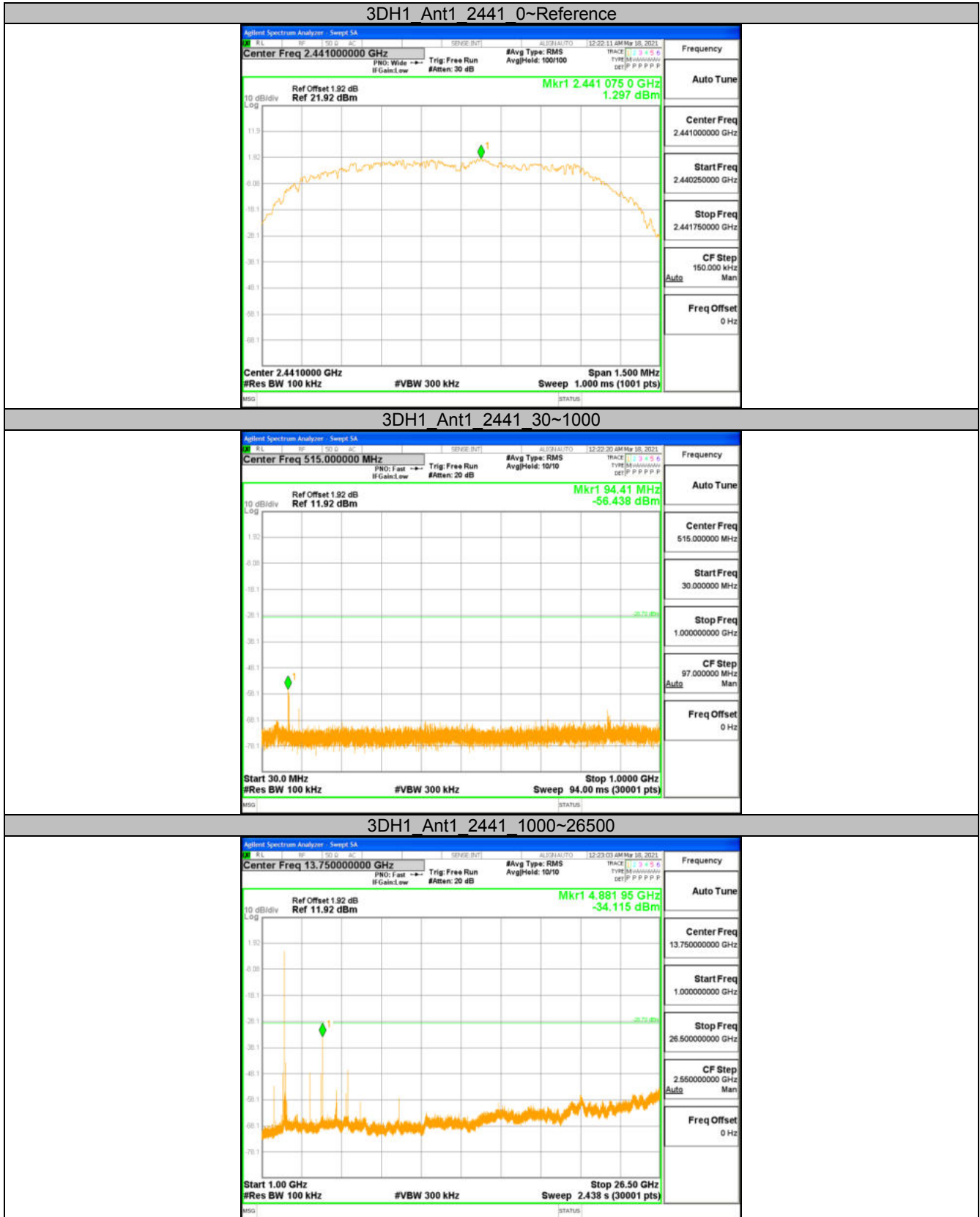


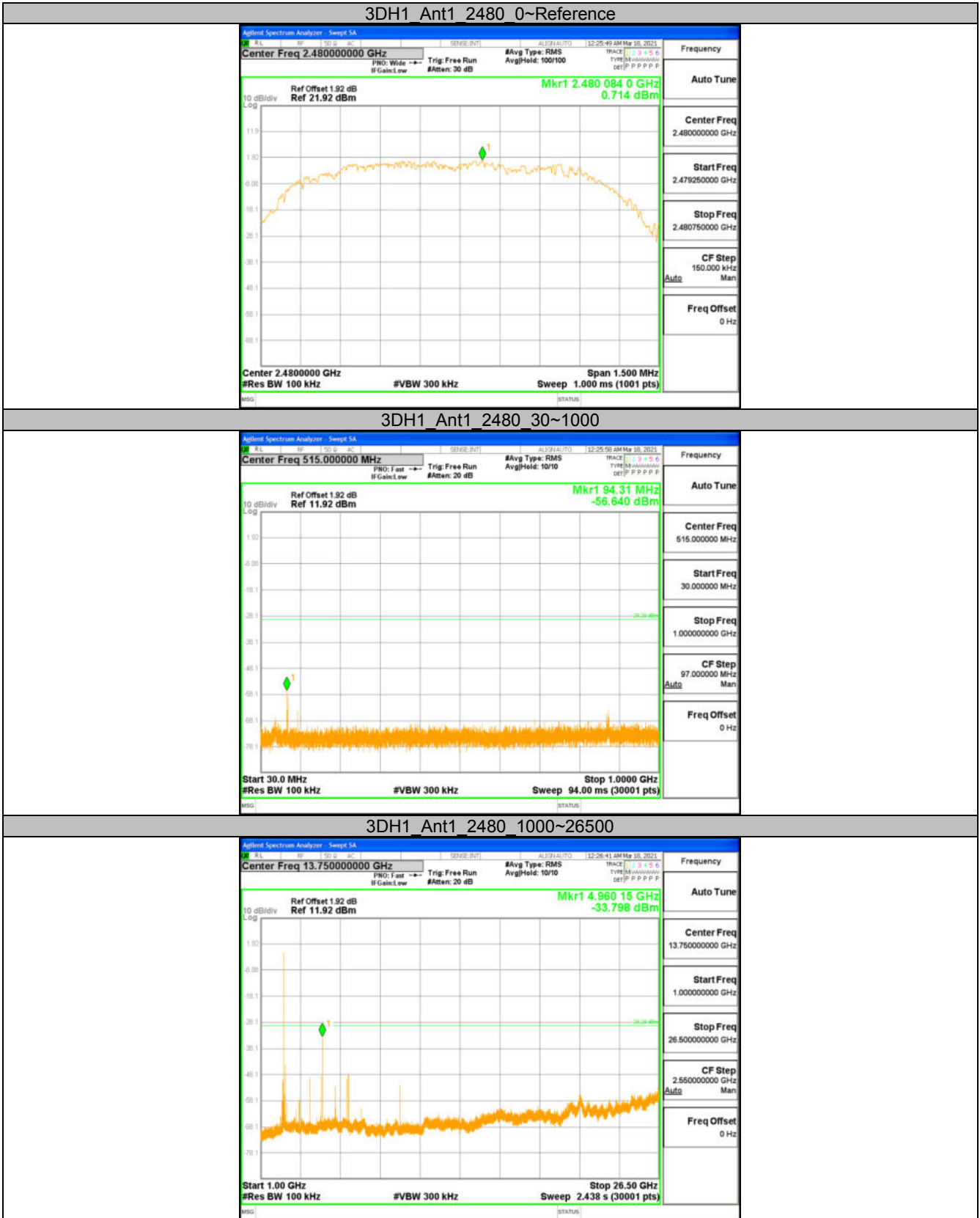












APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Radiated Spurious Emissions



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

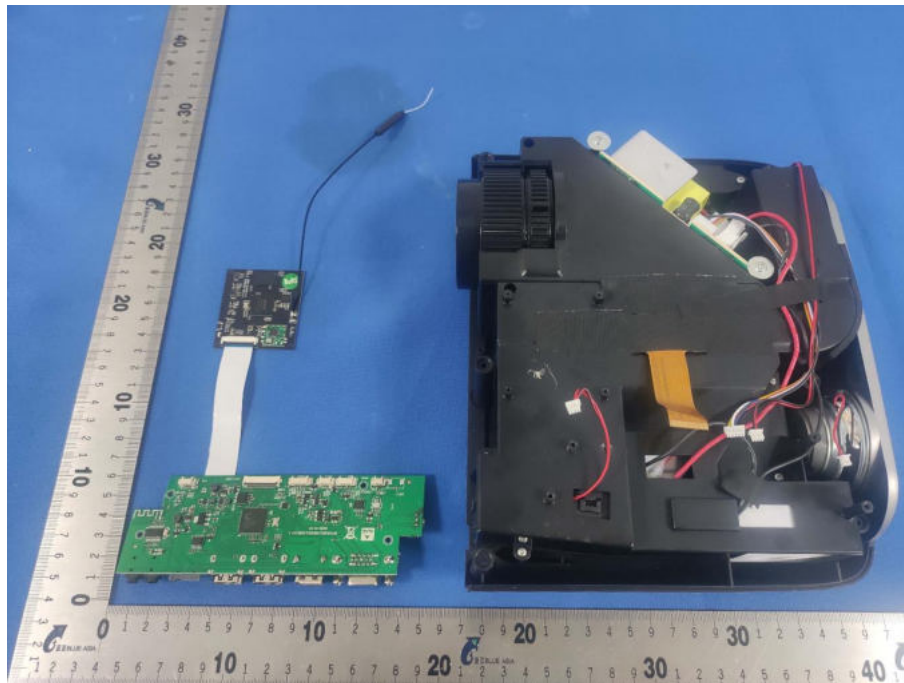
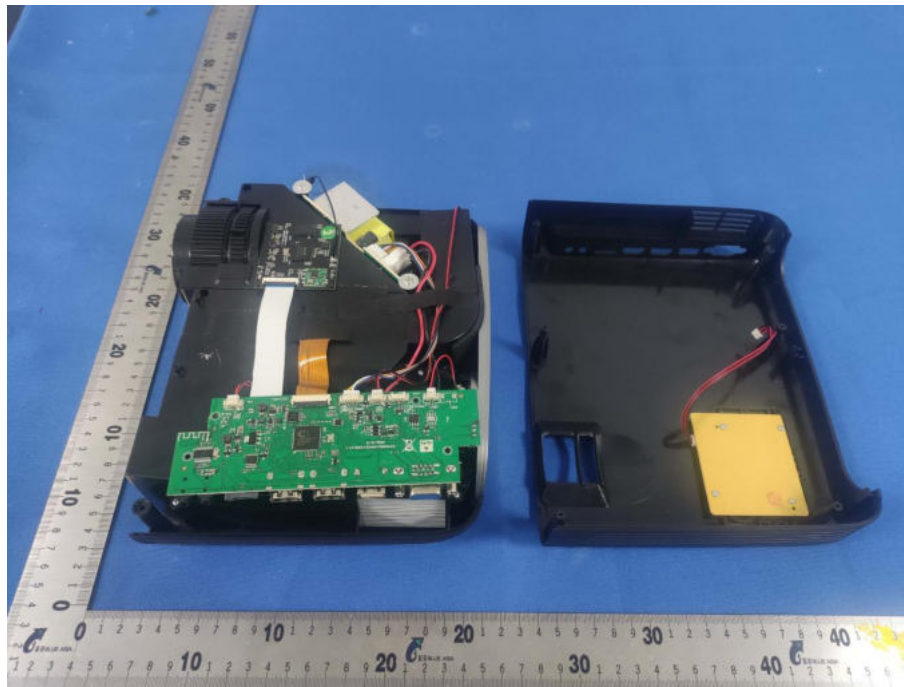


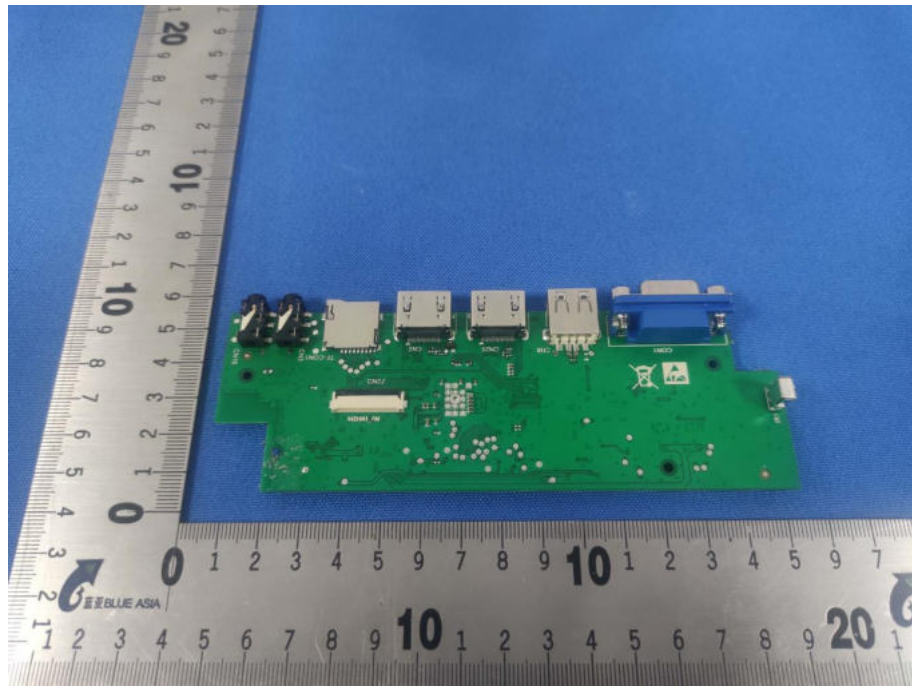
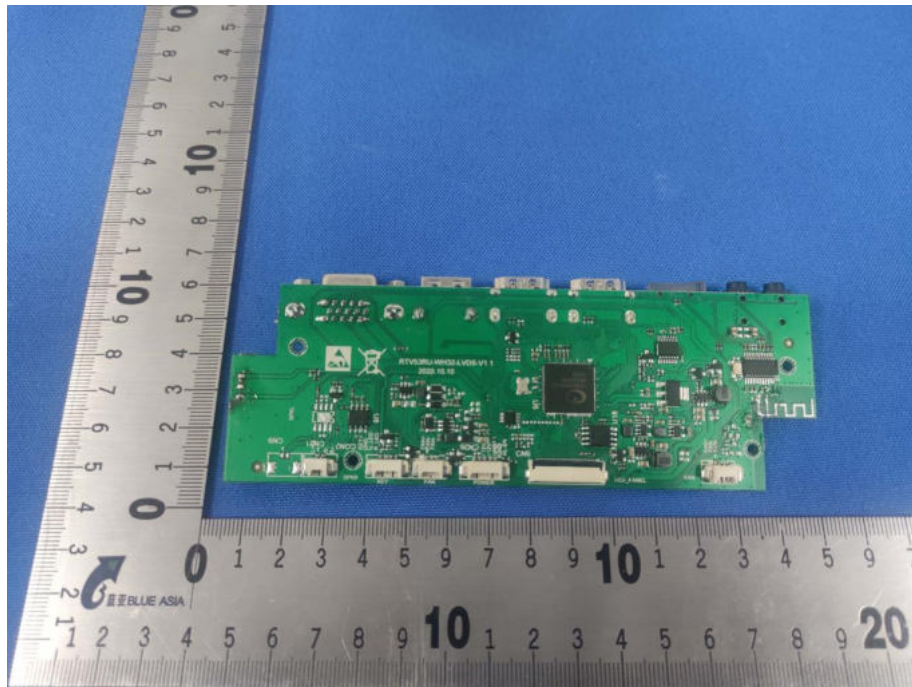
APPENDIX B: PHOTOGRAPHS OF EUT

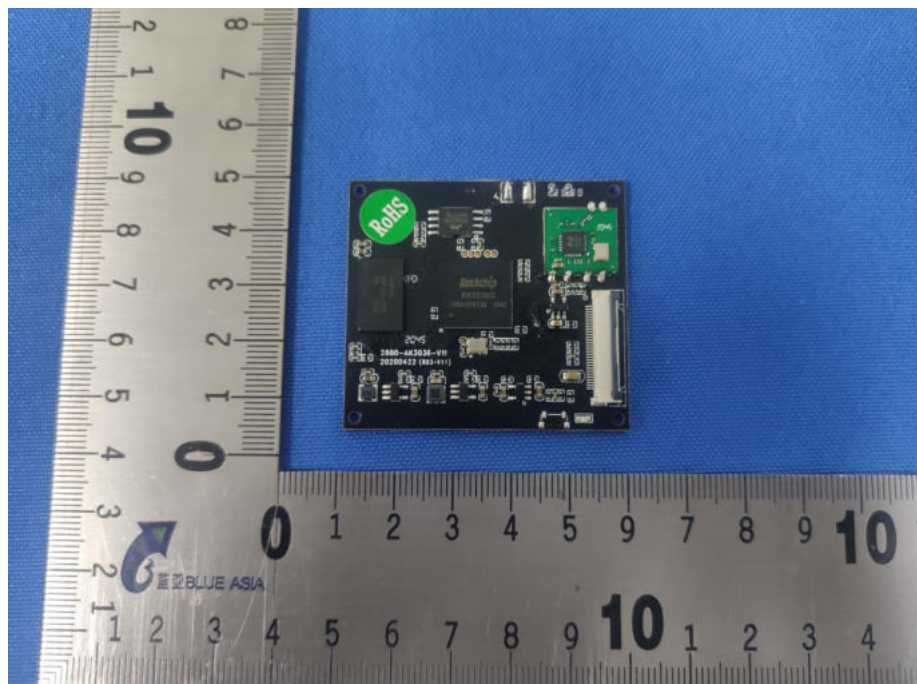
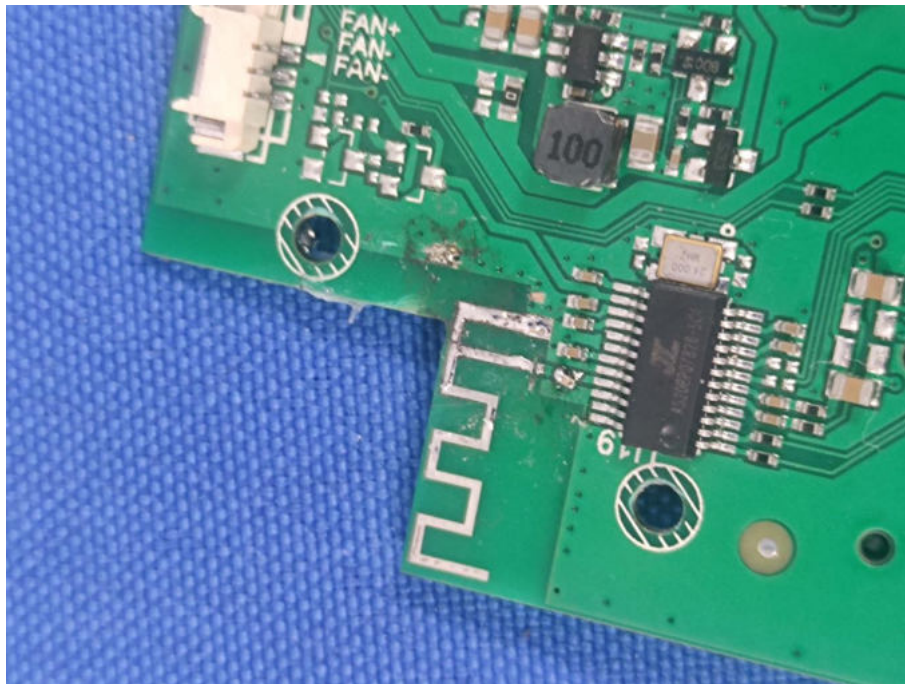


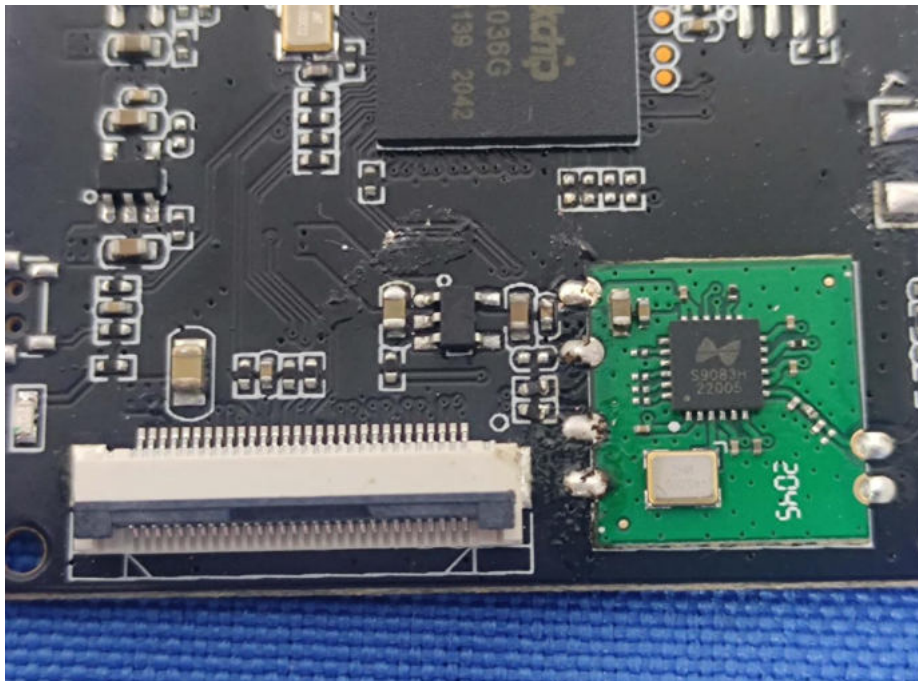
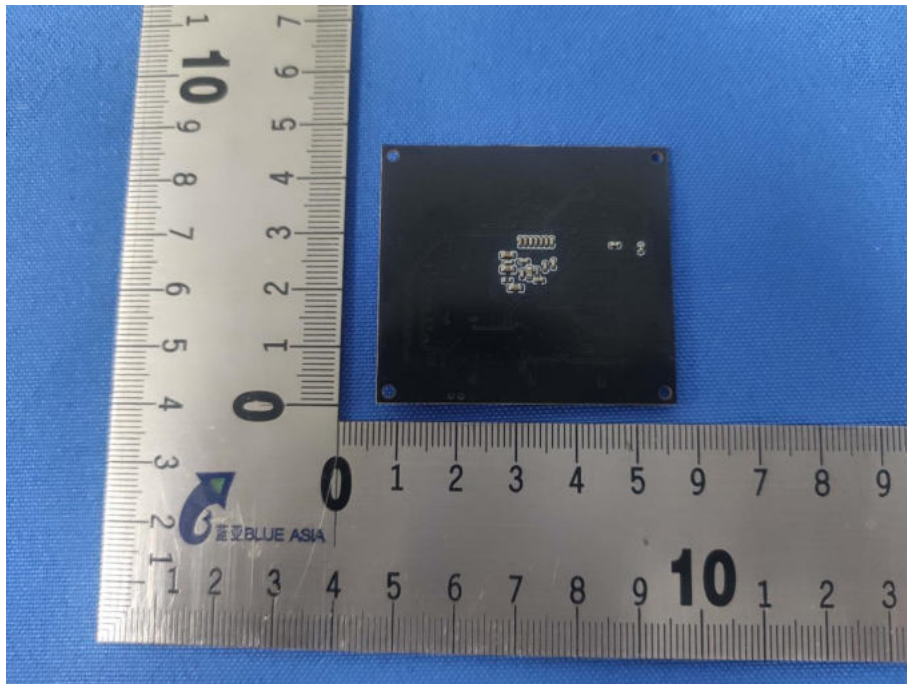


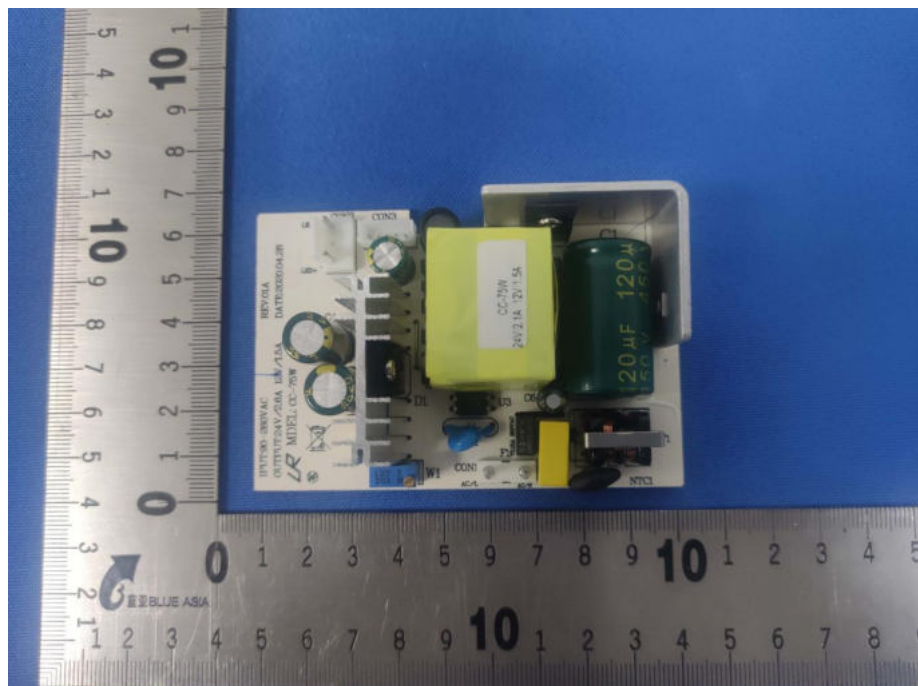
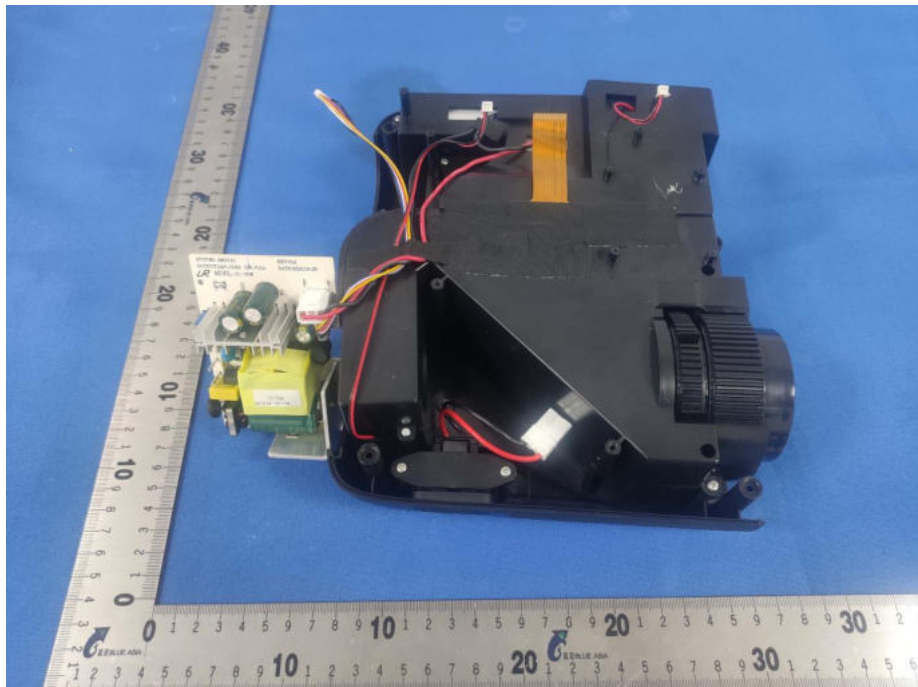


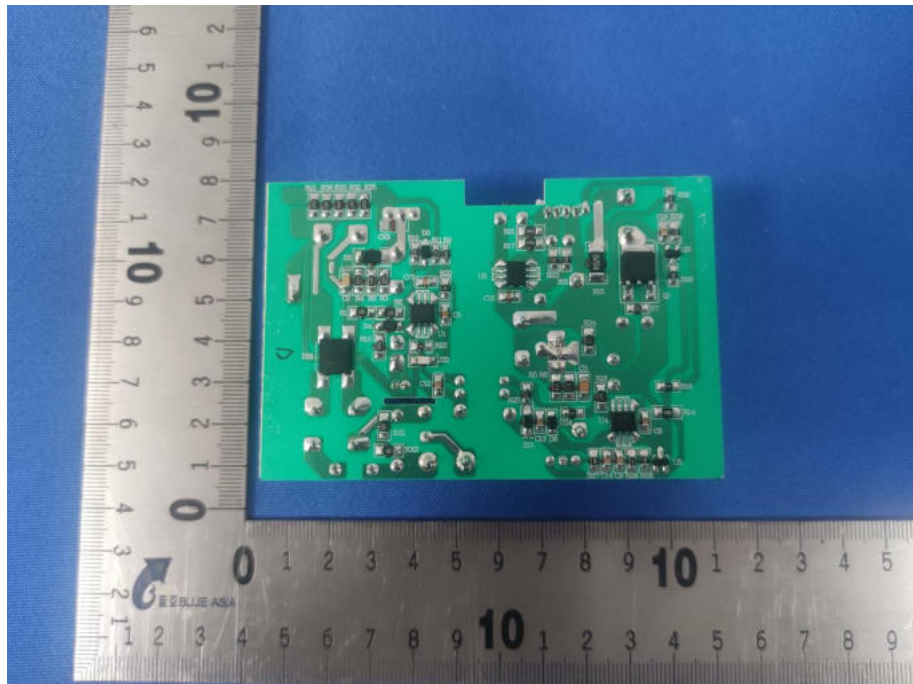












----END OF REPORT----

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