

APPENDIX A RF TEST DATA

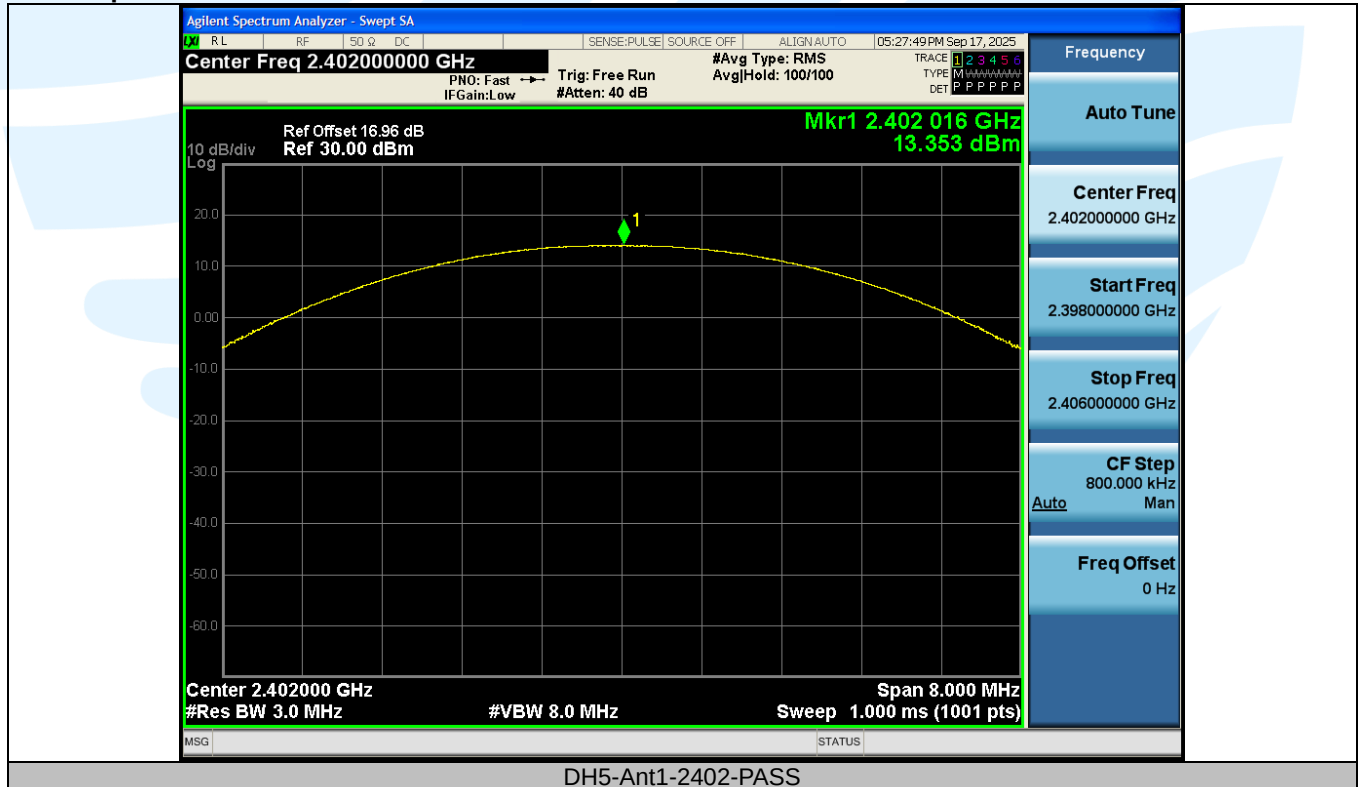
A.1 MAXIMUM CONDUCTED OUTPUT POWER

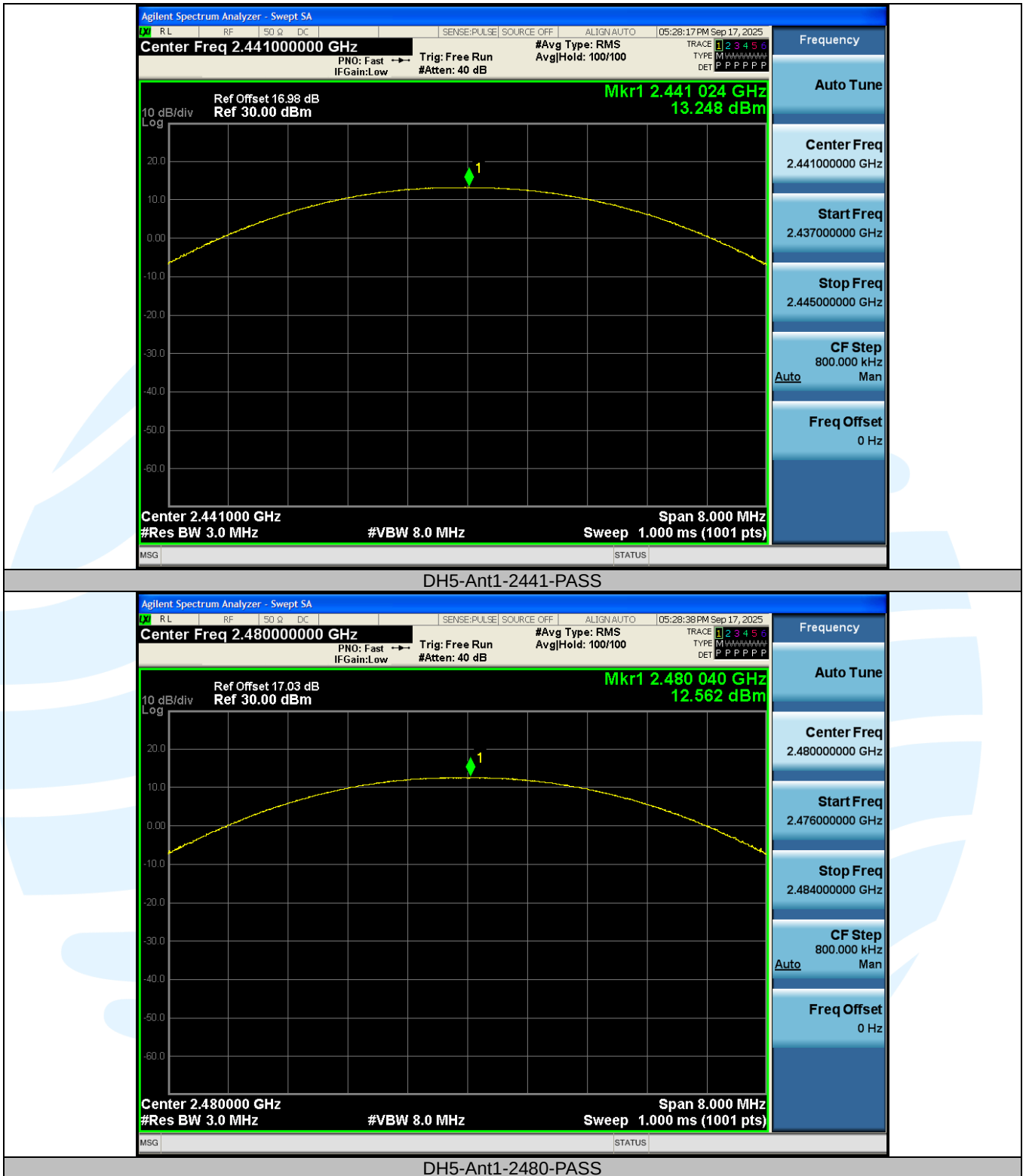
Left earbud

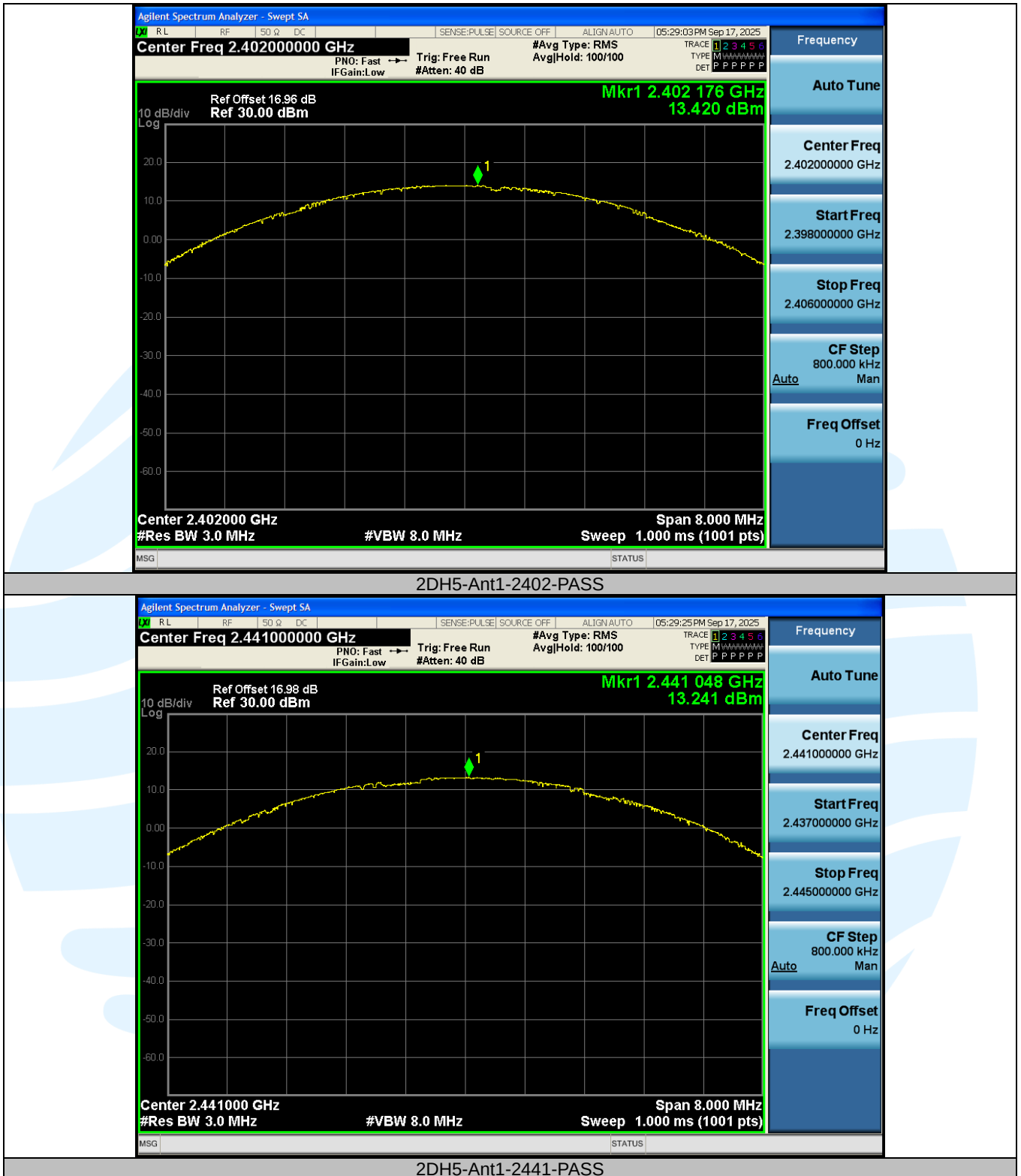
Test Mode	Antenna	Frequency [MHz]	Set Power	Conducted Peak Power [dBm]	E.I.R.P [dBm]	Conducted Limit [dBm]	E.I.R.P Limit [dBm]	Verdict
DH5	Ant1	2402	NA	13.35	7.92	≤20.97	≤36	PASS
DH5	Ant1	2441	NA	13.25	7.82	≤20.97	≤36	PASS
DH5	Ant1	2480	NA	12.56	7.13	≤20.97	≤36	PASS
2DH5	Ant1	2402	NA	13.42	7.99	≤20.97	≤36	PASS
2DH5	Ant1	2441	NA	13.24	7.81	≤20.97	≤36	PASS
2DH5	Ant1	2480	NA	12.55	7.12	≤20.97	≤36	PASS
3DH5	Ant1	2402	NA	13.22	7.79	≤20.97	≤36	PASS
3DH5	Ant1	2441	NA	13.19	7.76	≤20.97	≤36	PASS
3DH5	Ant1	2480	NA	12.52	7.09	≤20.97	≤36	PASS

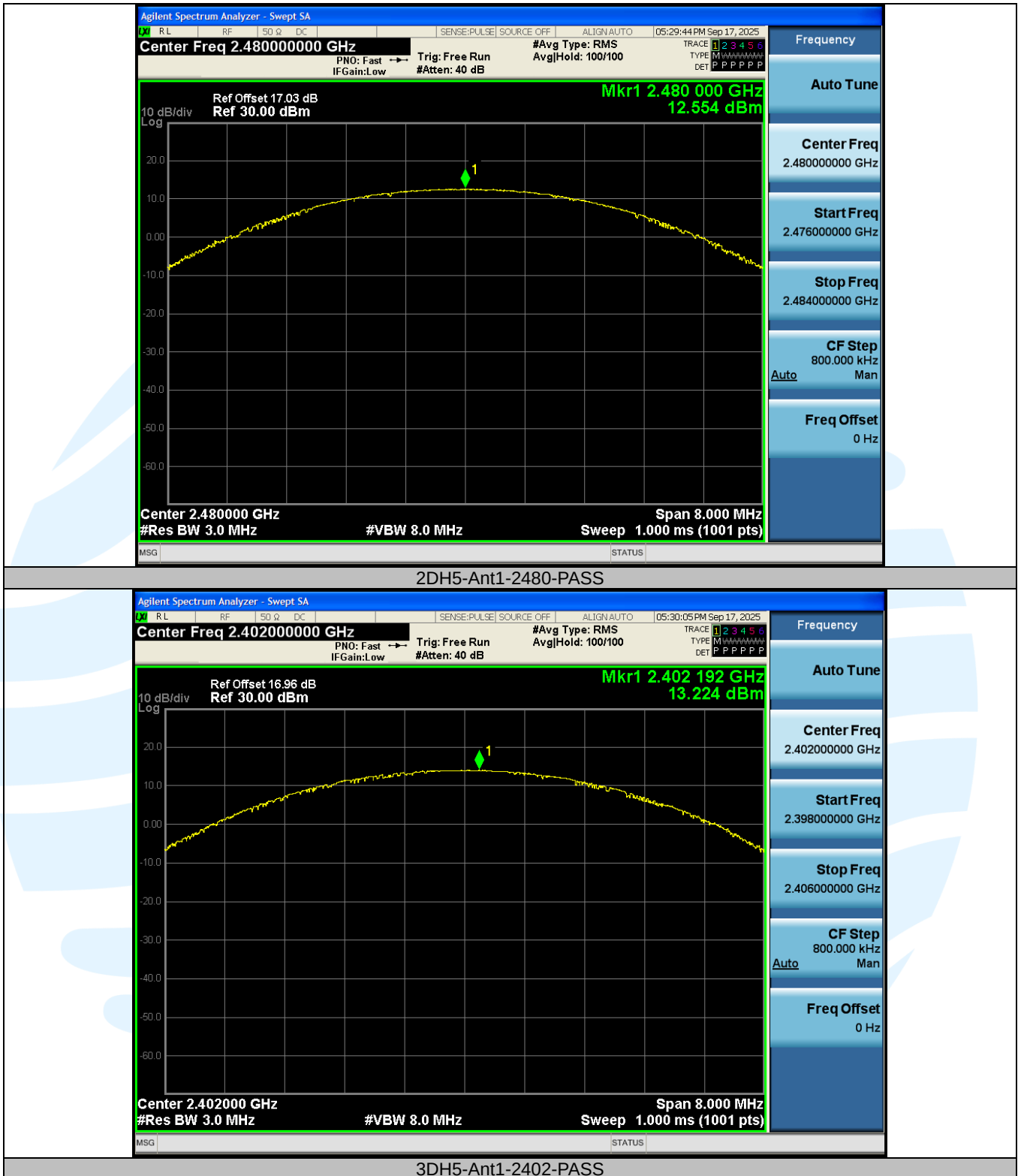
Test Mode	Ant.	Freq. [MHz]	Set Power	Conducted Avg Result [dBm]	E.I.R.P [dBm]	Limit [dBm]	E.I.R.P Limit [dBm]	Verdict
DH5	Ant1	2402	NA	13.14	7.71	≤20.97	≤36	PASS
DH5	Ant1	2441	NA	13.08	7.65	≤20.97	≤36	PASS
DH5	Ant1	2480	NA	12.39	6.96	≤20.97	≤36	PASS
2DH5	Ant1	2402	NA	11.44	6.01	≤20.97	≤36	PASS
2DH5	Ant1	2441	NA	11.52	6.09	≤20.97	≤36	PASS
2DH5	Ant1	2480	NA	11.38	5.95	≤20.97	≤36	PASS
3DH5	Ant1	2402	NA	11.42	5.99	≤20.97	≤36	PASS
3DH5	Ant1	2441	NA	11.51	6.08	≤20.97	≤36	PASS
3DH5	Ant1	2480	NA	11.39	5.96	≤20.97	≤36	PASS

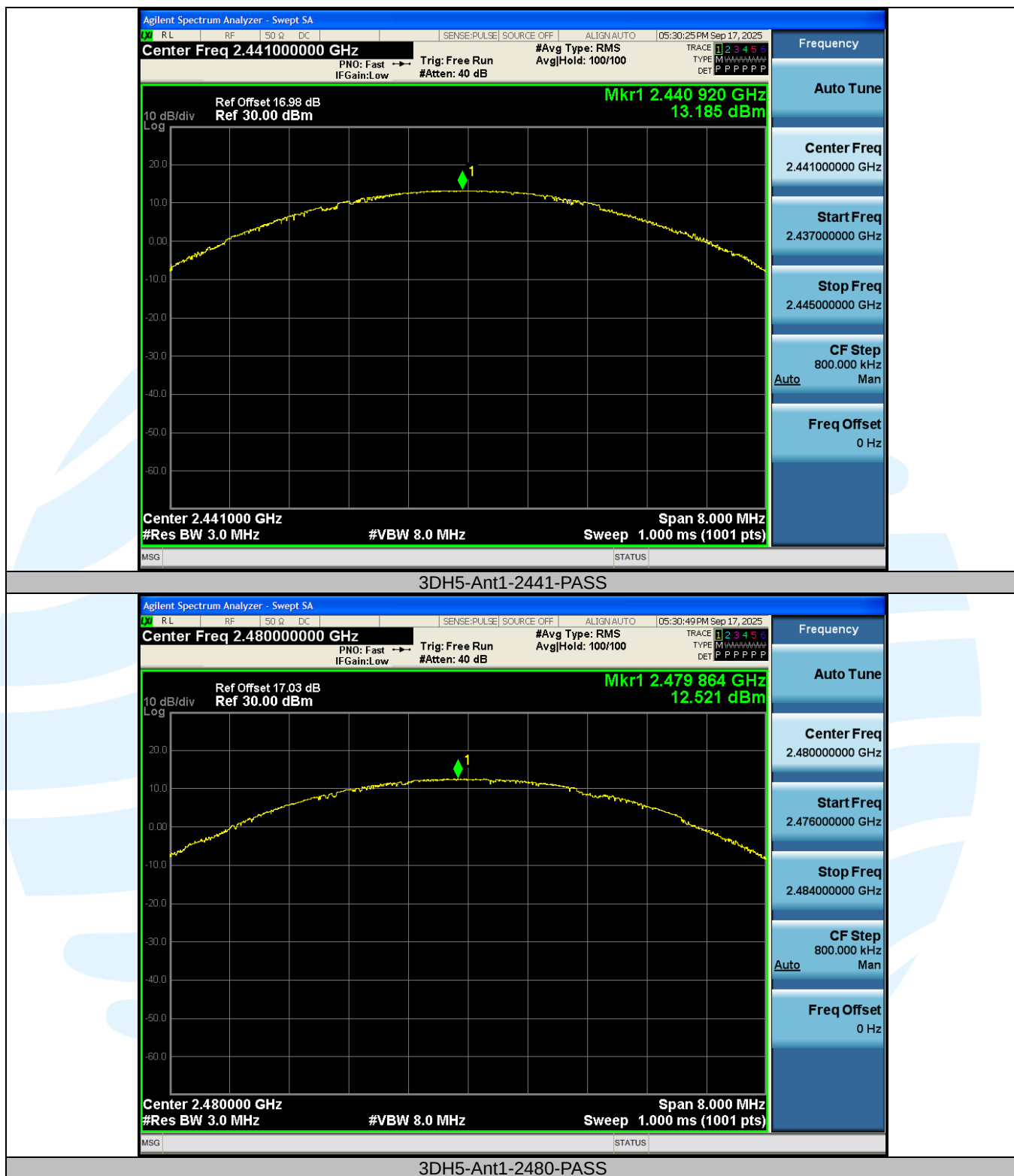
Test Graphs









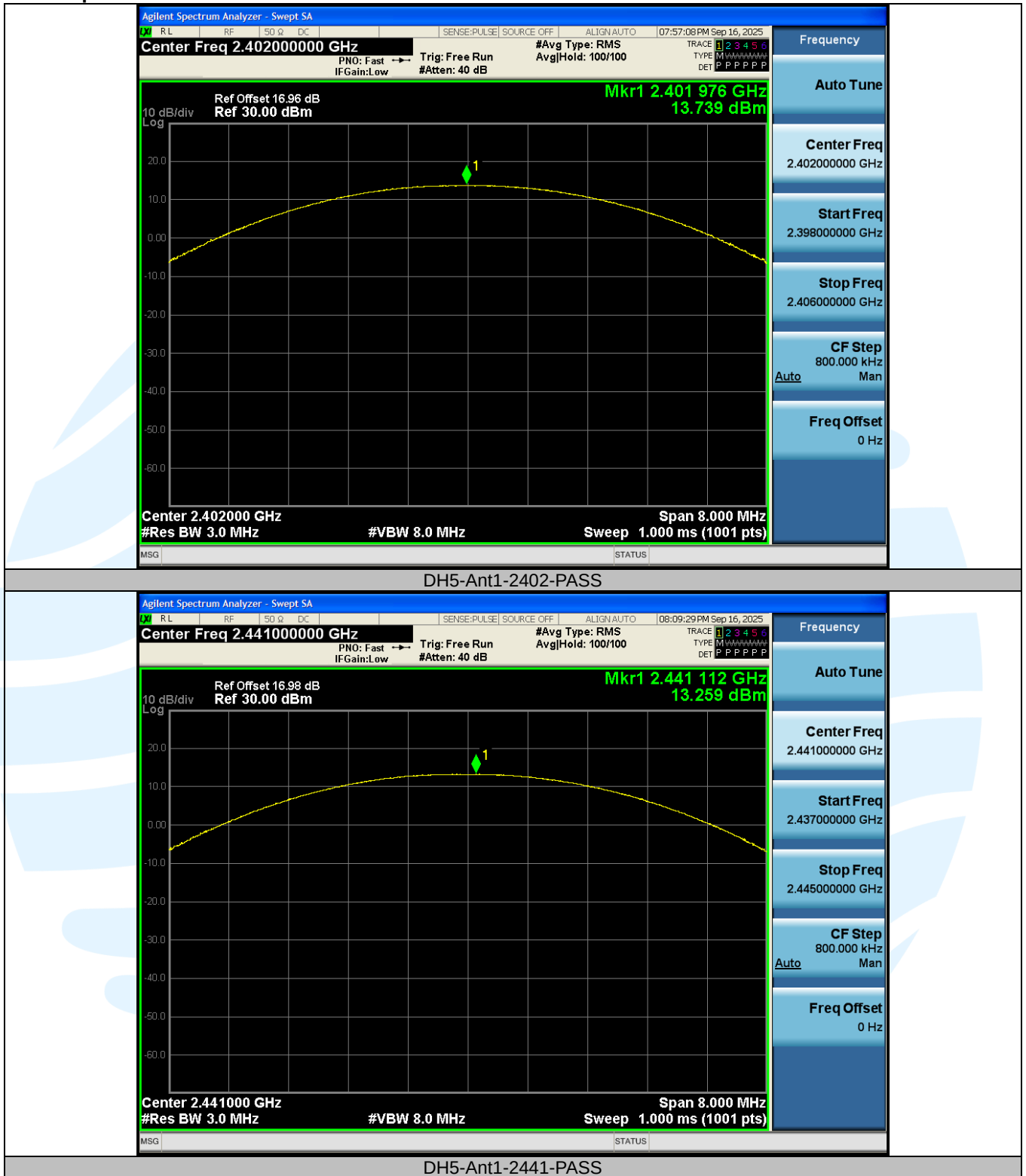


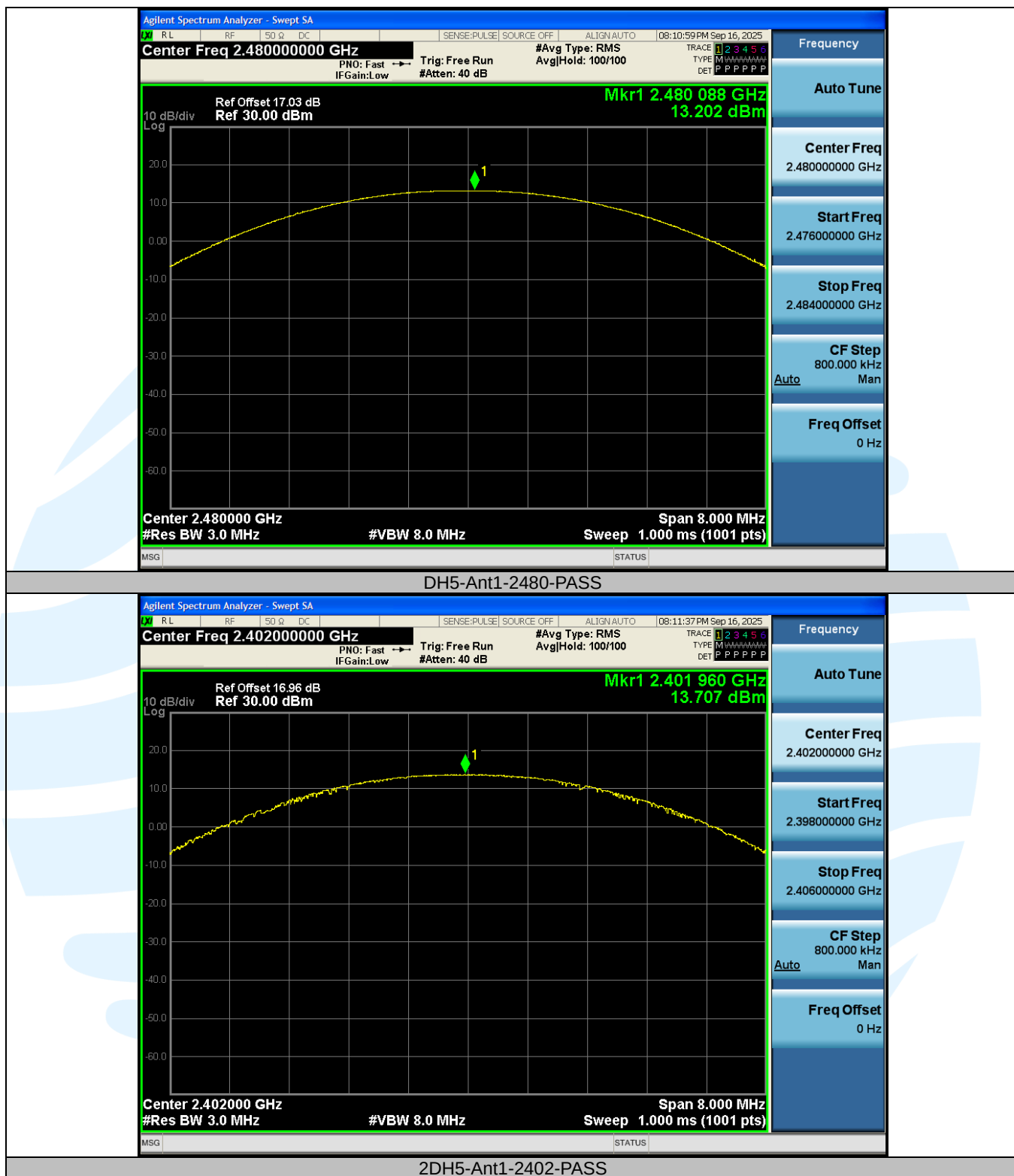
Right earbud

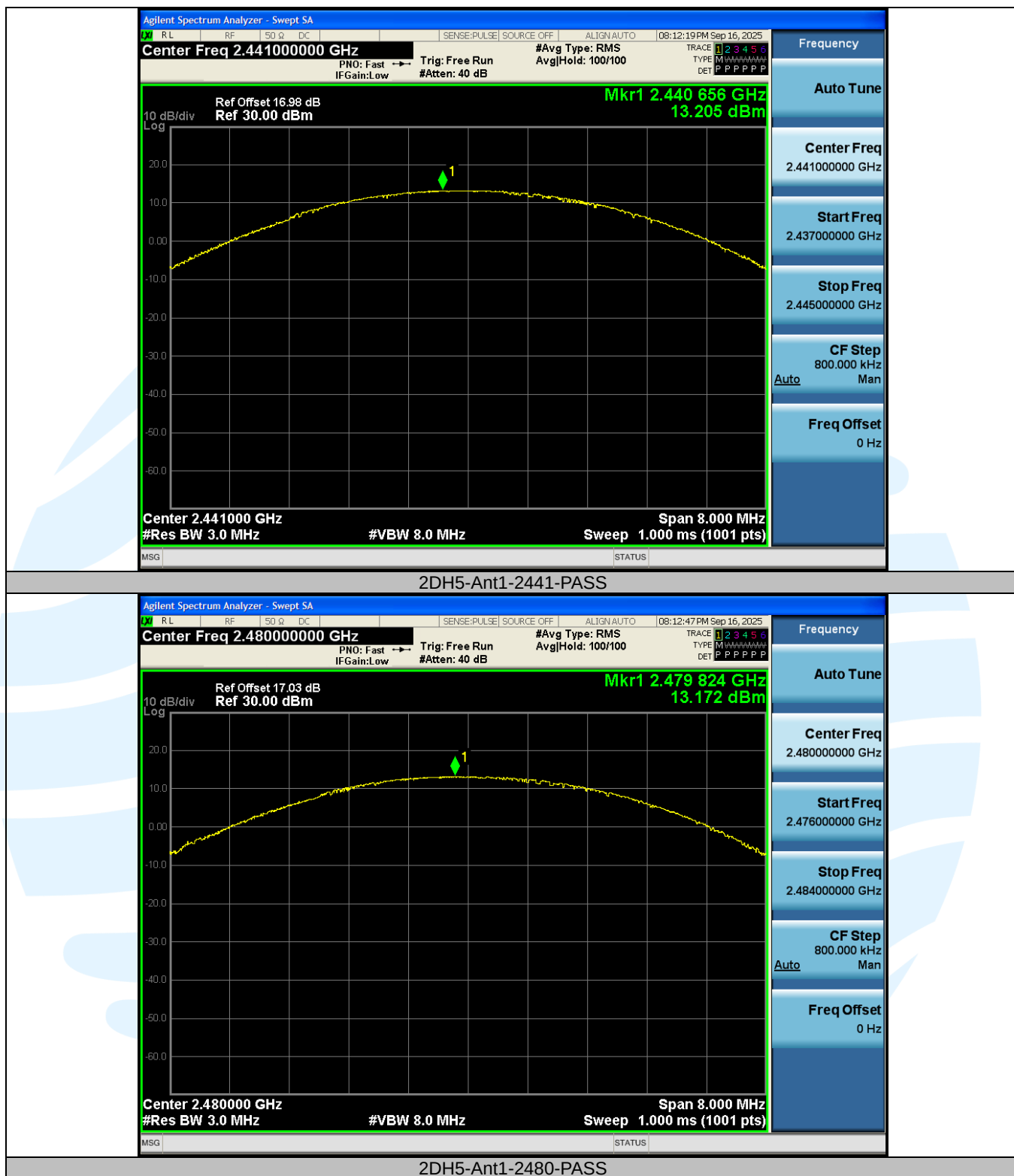
Test Mode	Antenna	Frequency [MHz]	Set Power	Conducted Peak Power [dBm]	E.I.R.P [dBm]	Conducted Limit [dBm]	E.I.R.P Limit [dBm]	Verdict
DH5	Ant1	2402	NA	13.74	8.45	≤20.97	≤36	PASS
DH5	Ant1	2441	NA	13.26	7.97	≤20.97	≤36	PASS
DH5	Ant1	2480	NA	13.20	7.91	≤20.97	≤36	PASS
2DH5	Ant1	2402	NA	13.71	8.42	≤20.97	≤36	PASS
2DH5	Ant1	2441	NA	13.21	7.92	≤20.97	≤36	PASS
2DH5	Ant1	2480	NA	13.17	7.88	≤20.97	≤36	PASS
3DH5	Ant1	2402	NA	13.66	8.37	≤20.97	≤36	PASS
3DH5	Ant1	2441	NA	13.23	7.94	≤20.97	≤36	PASS
3DH5	Ant1	2480	NA	13.20	7.91	≤20.97	≤36	PASS

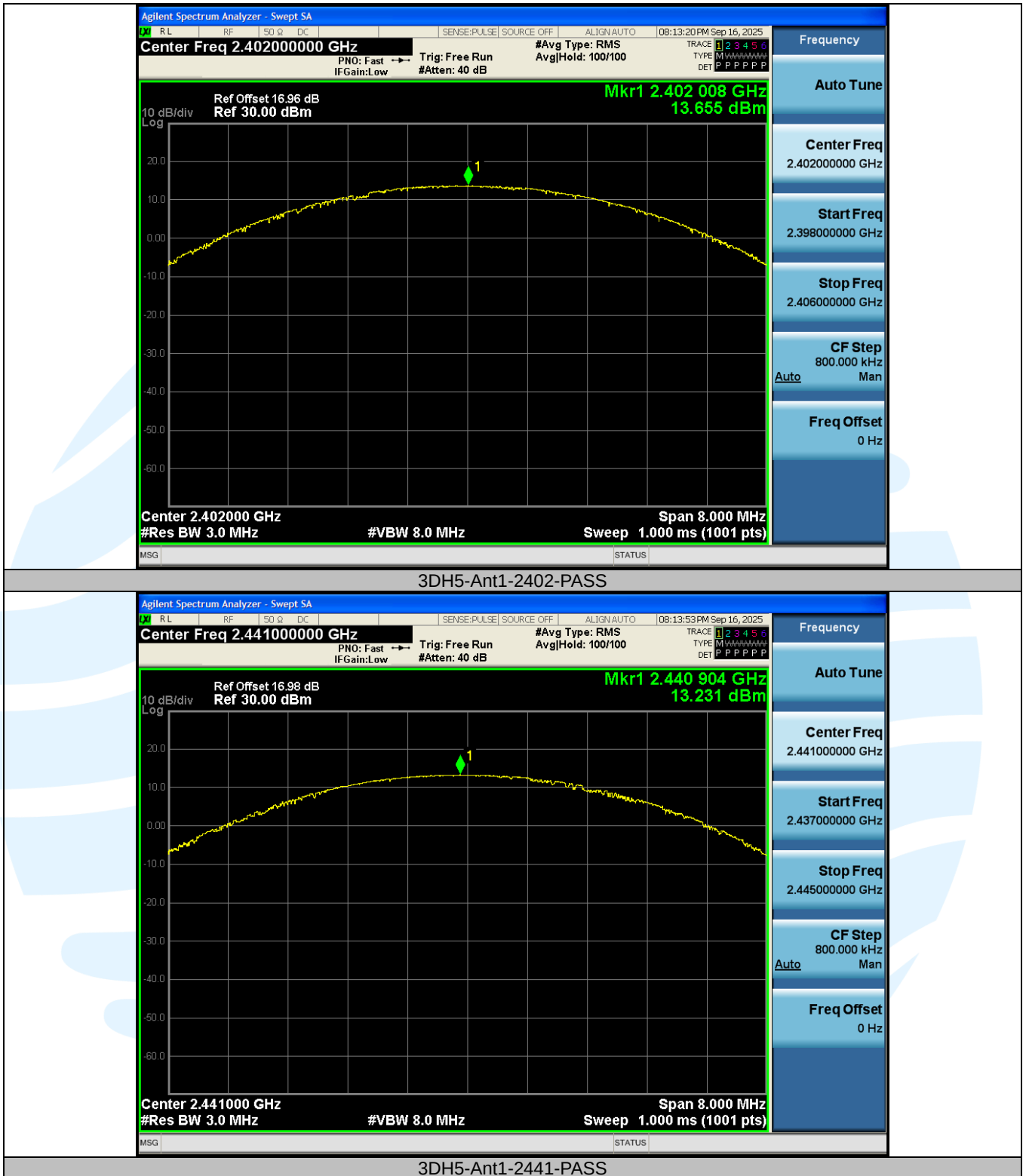
Test Mode	Ant.	Freq. [MHz]	Set Power	Conducted Avg Result [dBm]	E.I.R.P [dBm]	Limit [dBm]	E.I.R.P Limit [dBm]	Verdict
DH5	Ant1	2402	NA	13.66	8.37	≤20.97	≤36	PASS
DH5	Ant1	2441	NA	13.21	7.92	≤20.97	≤36	PASS
DH5	Ant1	2480	NA	13.00	7.71	≤20.97	≤36	PASS
2DH5	Ant1	2402	NA	11.15	5.86	≤20.97	≤36	PASS
2DH5	Ant1	2441	NA	11.56	6.27	≤20.97	≤36	PASS
2DH5	Ant1	2480	NA	12.06	6.77	≤20.97	≤36	PASS
3DH5	Ant1	2402	NA	11.19	5.90	≤20.97	≤36	PASS
3DH5	Ant1	2441	NA	11.56	6.27	≤20.97	≤36	PASS
3DH5	Ant1	2480	NA	12.08	6.79	≤20.97	≤36	PASS

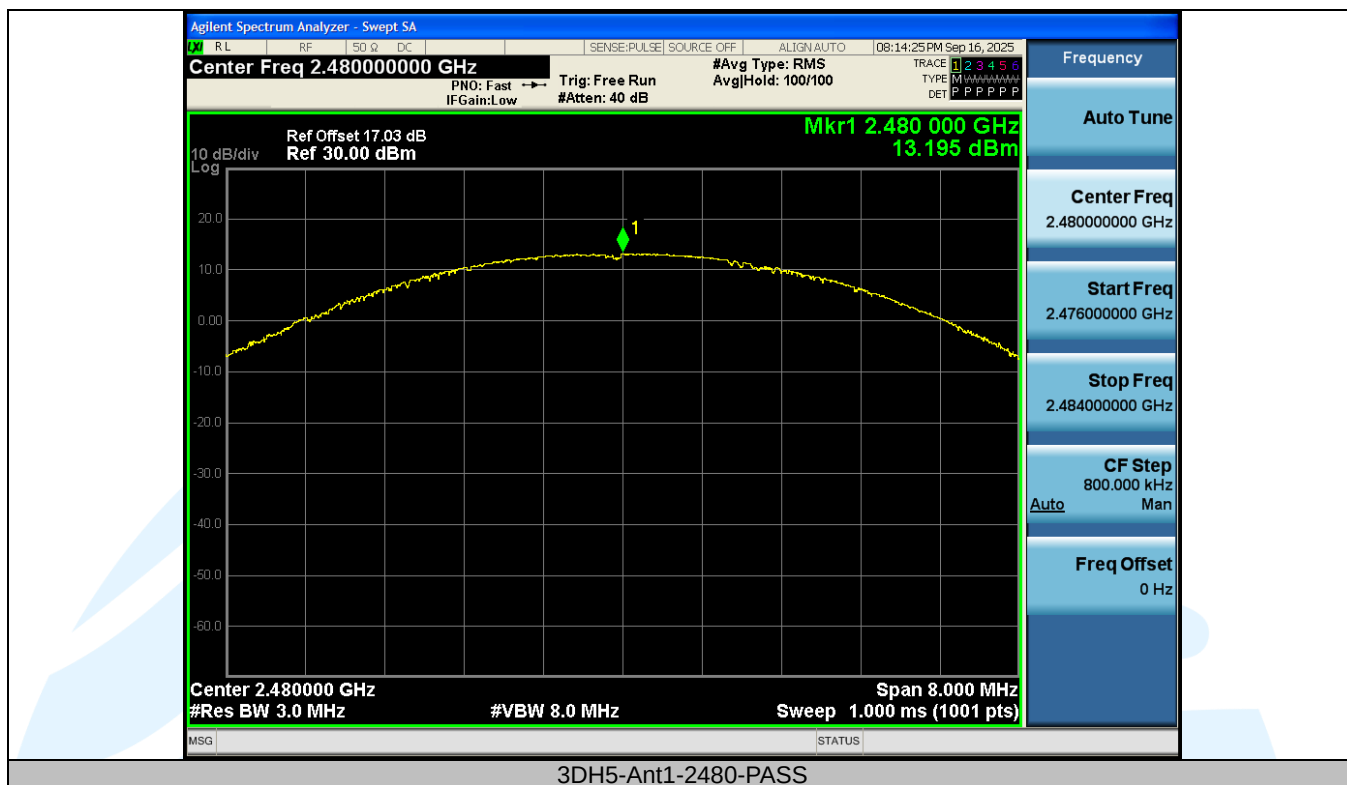
Test Graphs









**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

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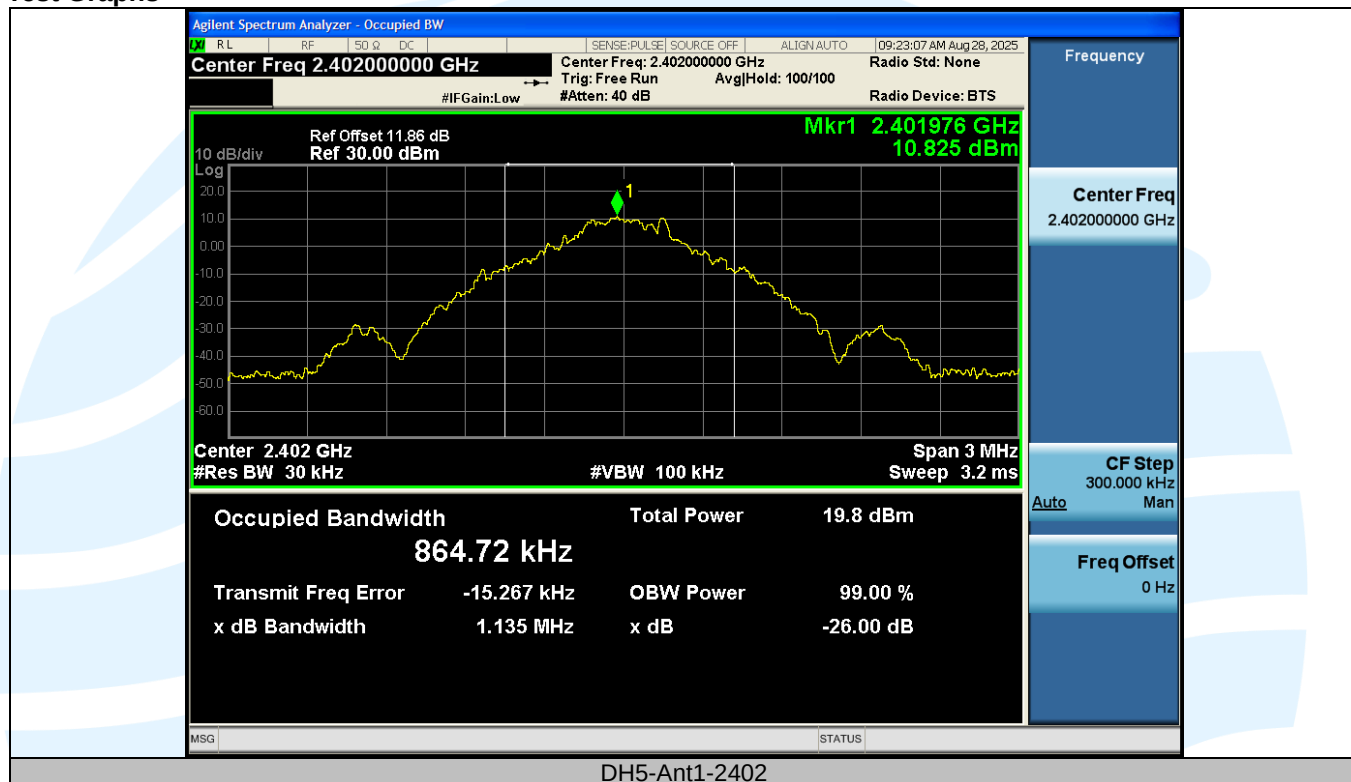
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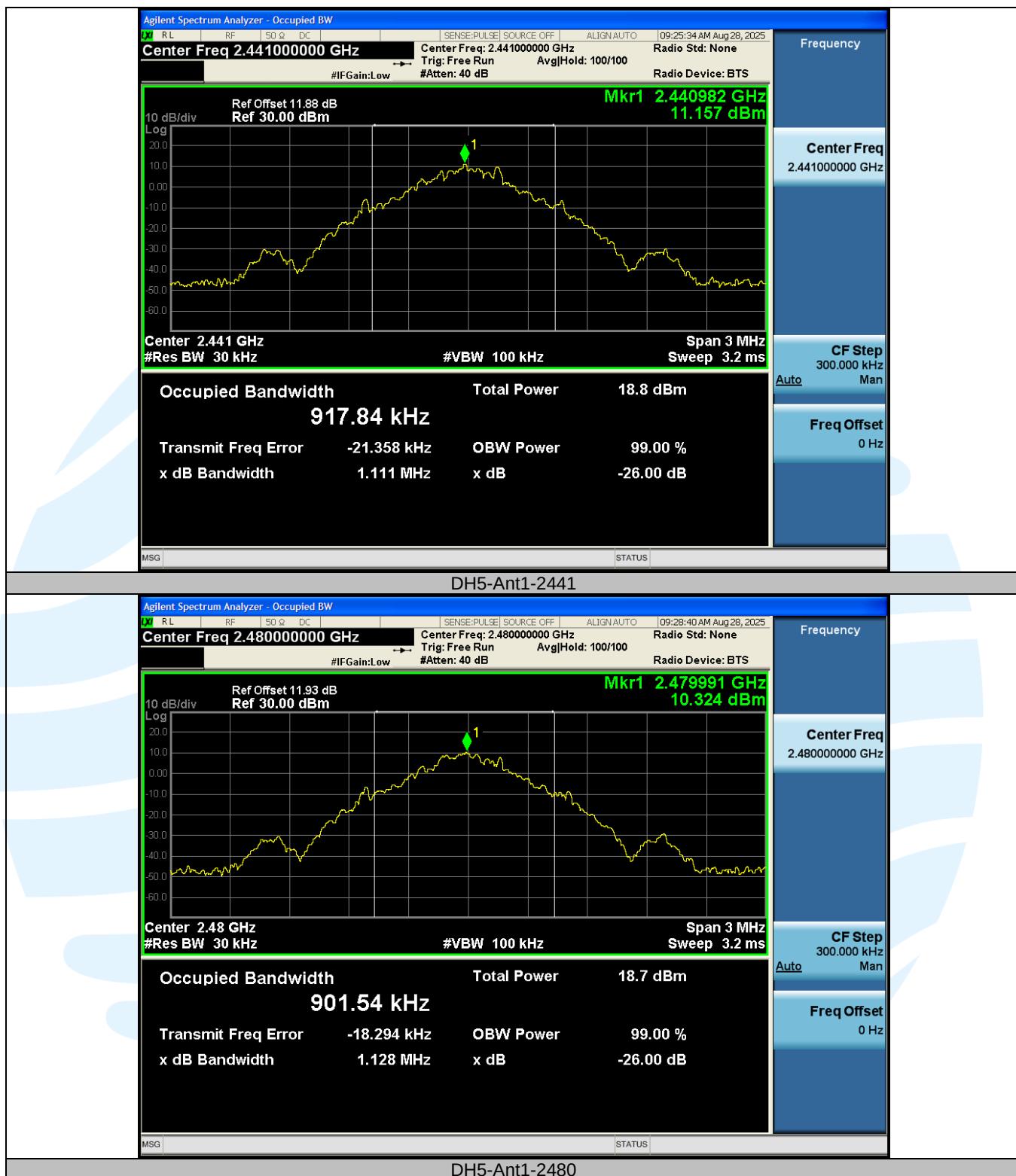
A.2 99% BANDWIDTH

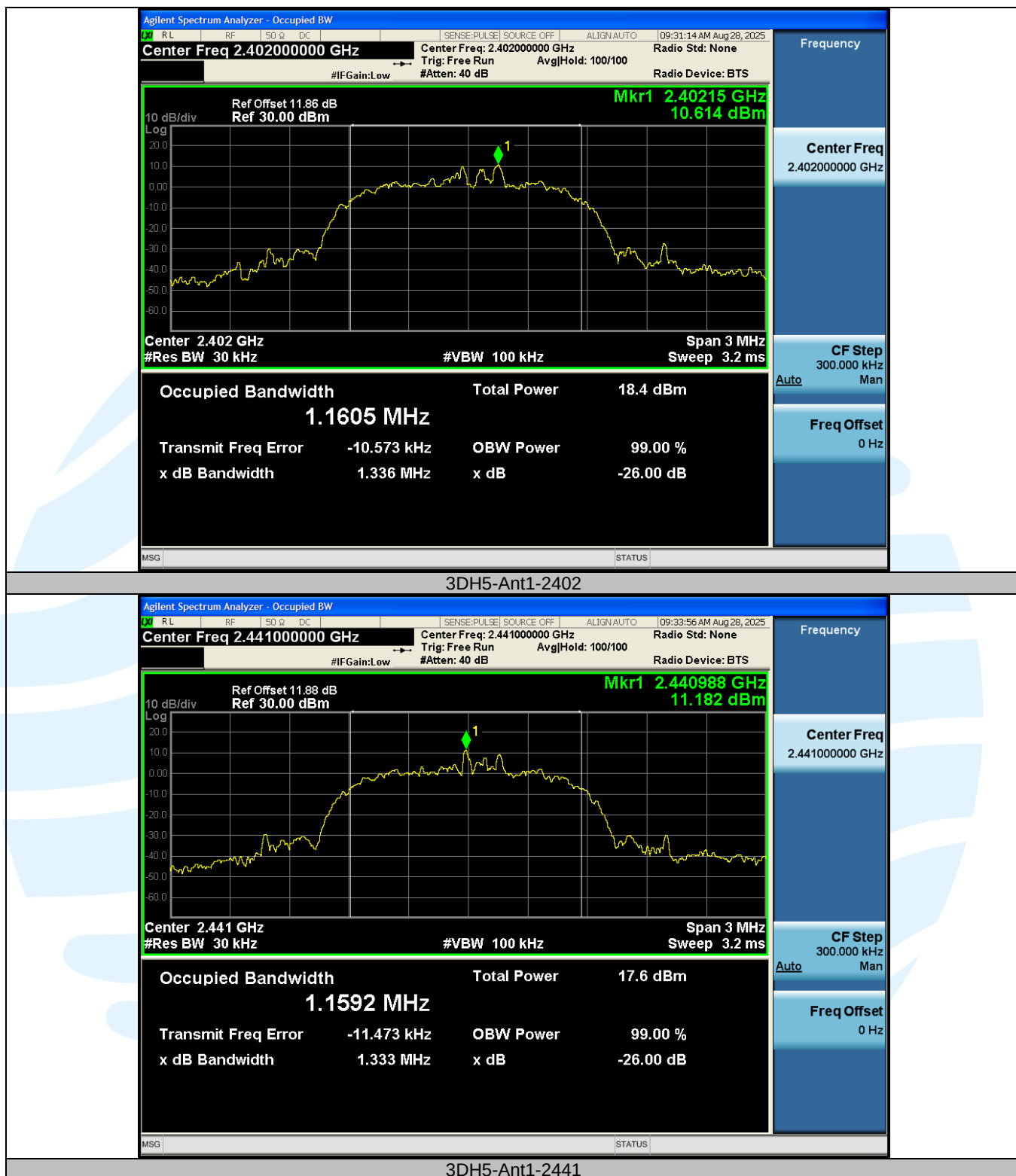
Left earbud

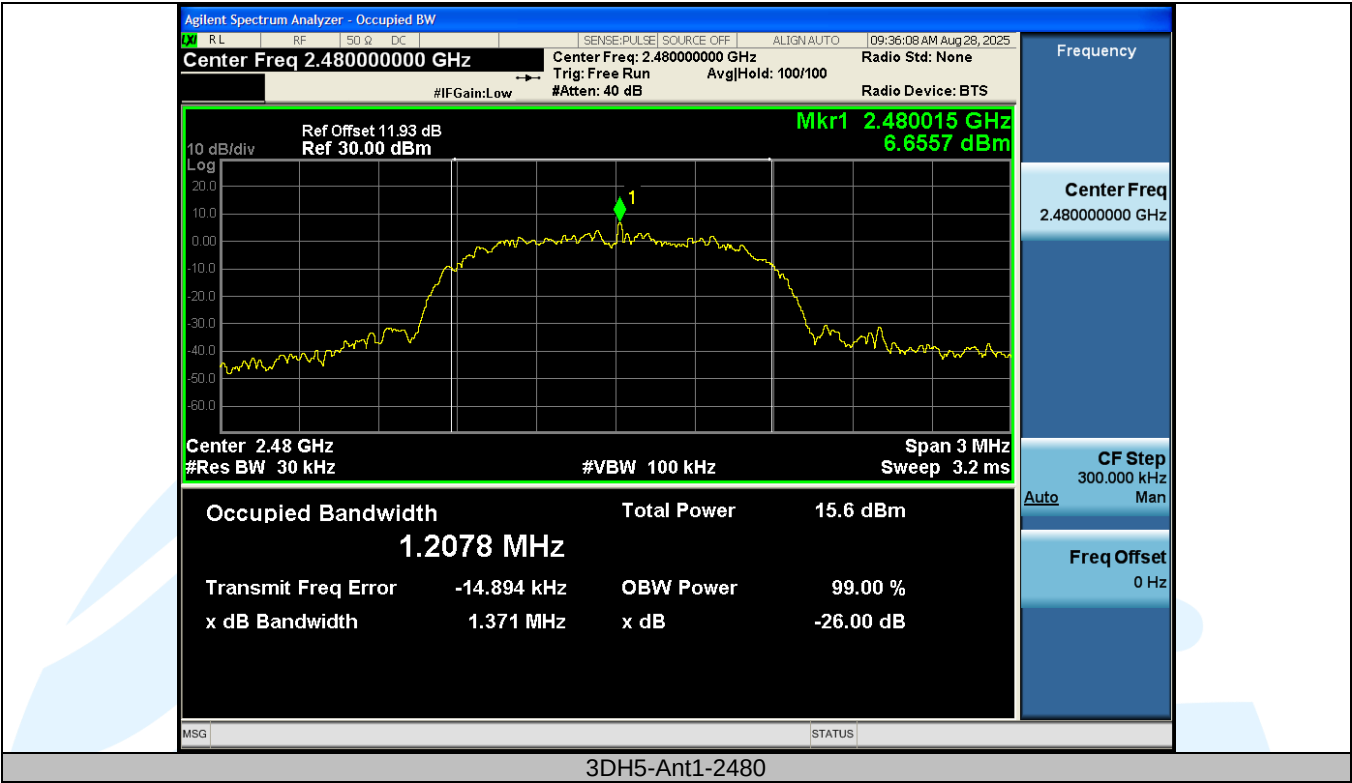
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]
DH5	Ant1	2402	0.86472	2401.5524	2402.4171
DH5	Ant1	2441	0.91784	2440.5197	2441.4376
DH5	Ant1	2480	0.90154	2479.5309	2480.4325
3DH5	Ant1	2402	1.1605	2401.4092	2402.5697
3DH5	Ant1	2441	1.1592	2440.4089	2441.5681
3DH5	Ant1	2480	1.2078	2479.3812	2480.5890

Test Graphs





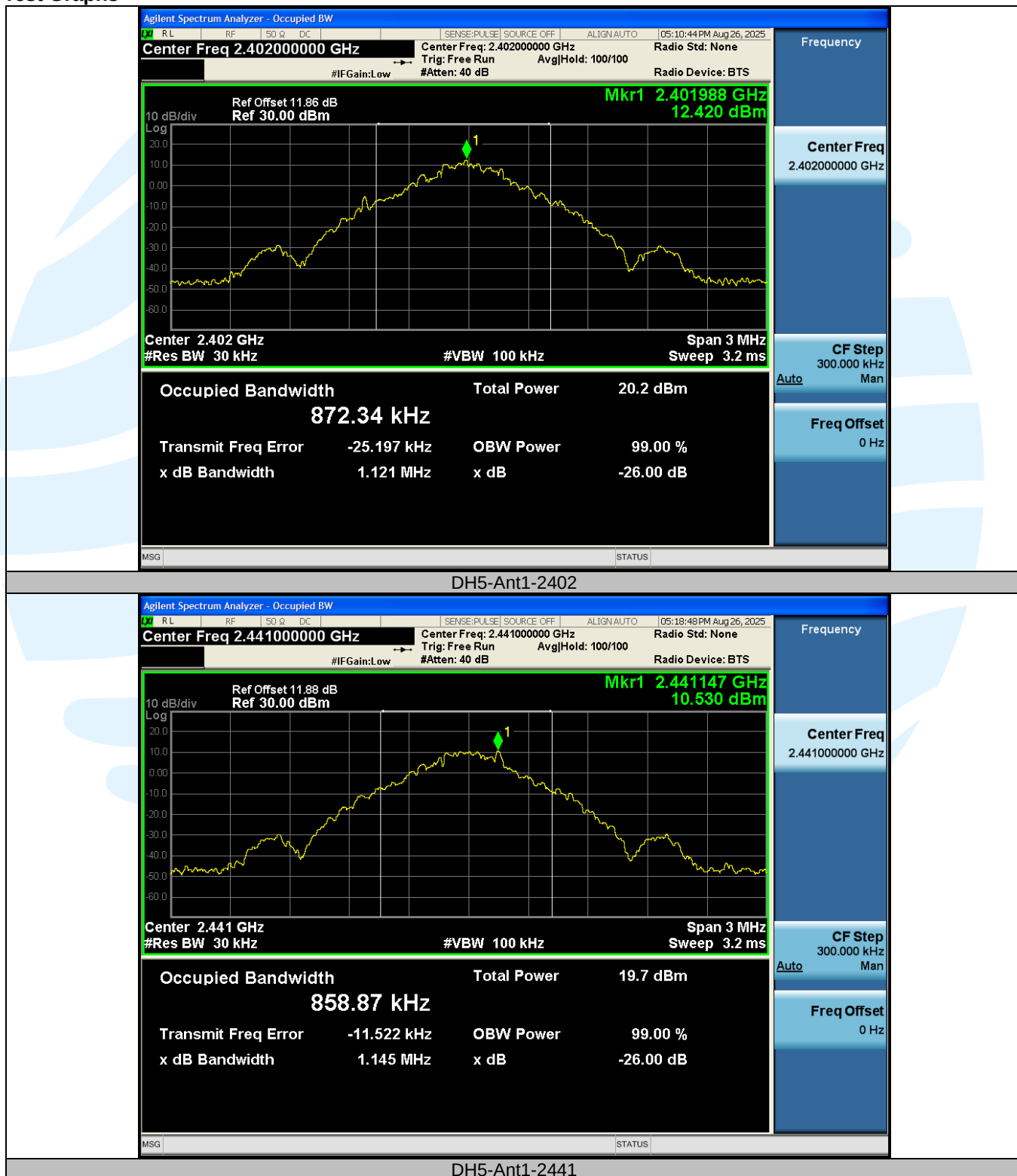




Right earbud

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]
DH5	Ant1	2402	0.87234	2401.5386	2402.4110
DH5	Ant1	2441	0.85887	2440.5590	2441.4179
DH5	Ant1	2480	0.87506	2479.5399	2480.4150
3DH5	Ant1	2402	1.1665	2401.4035	2402.5700
3DH5	Ant1	2441	1.1656	2440.4048	2441.5704
3DH5	Ant1	2480	1.1697	2479.4035	2480.5732

Test Graphs



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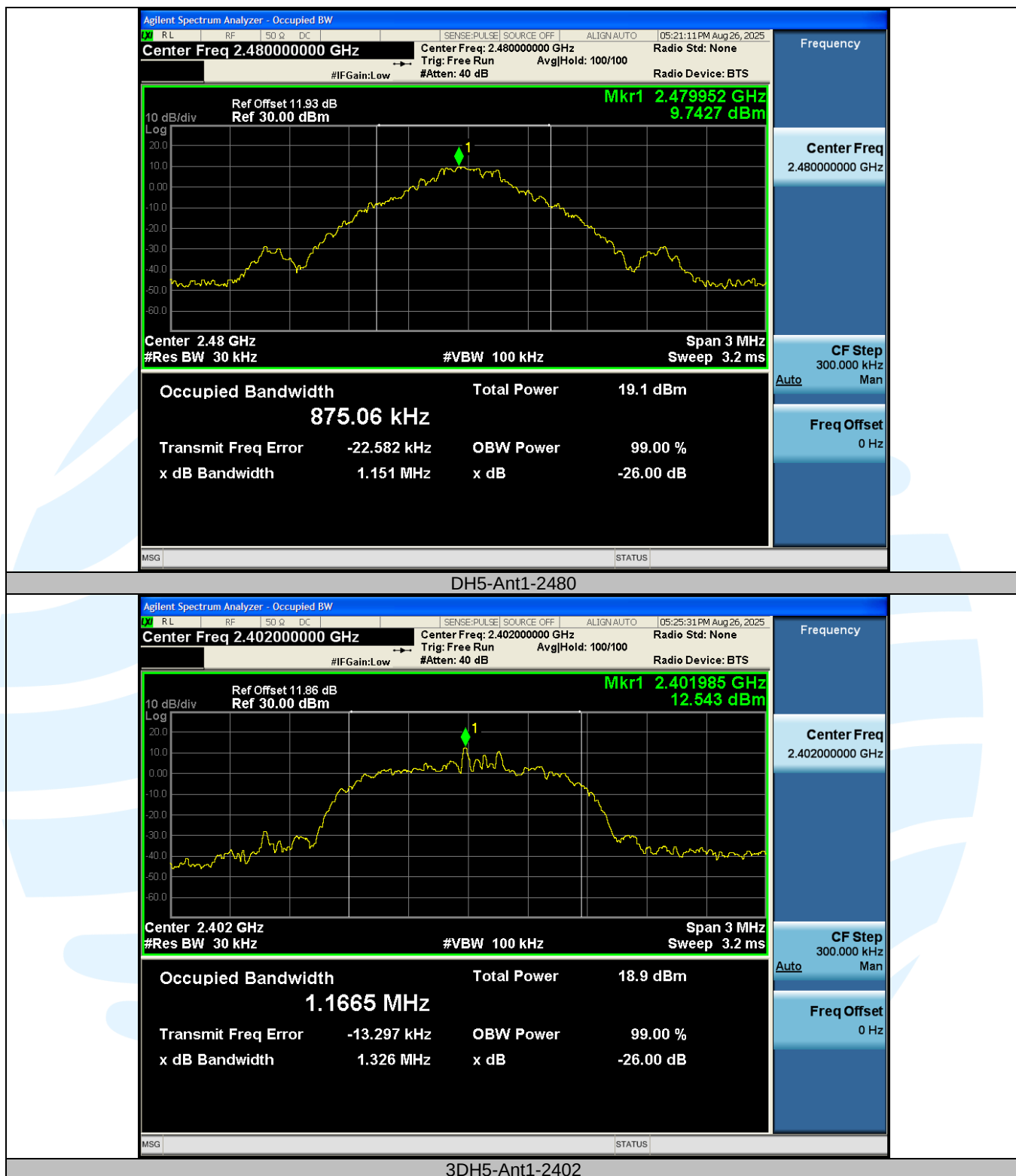
Tel: +86-755-28230888

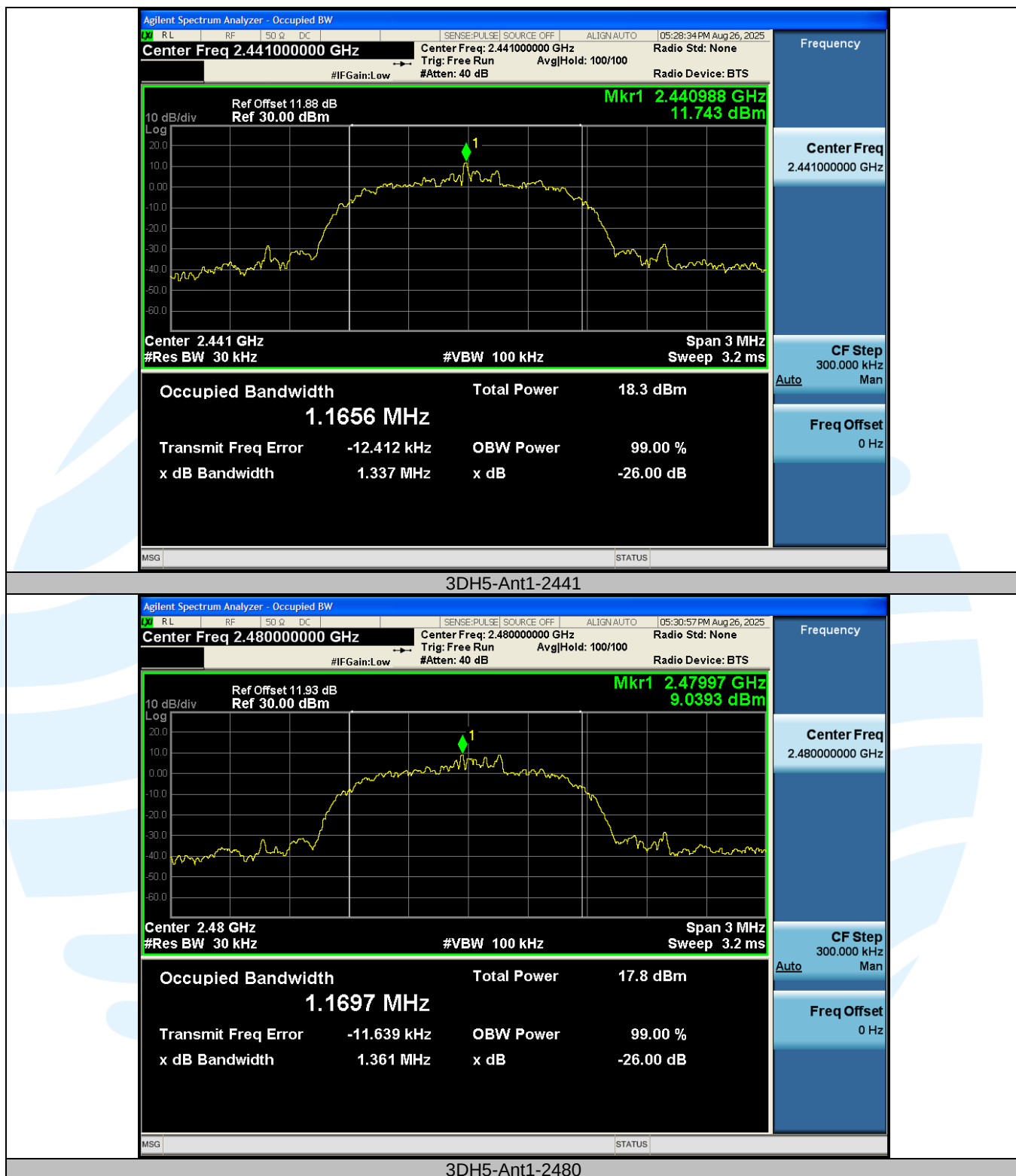
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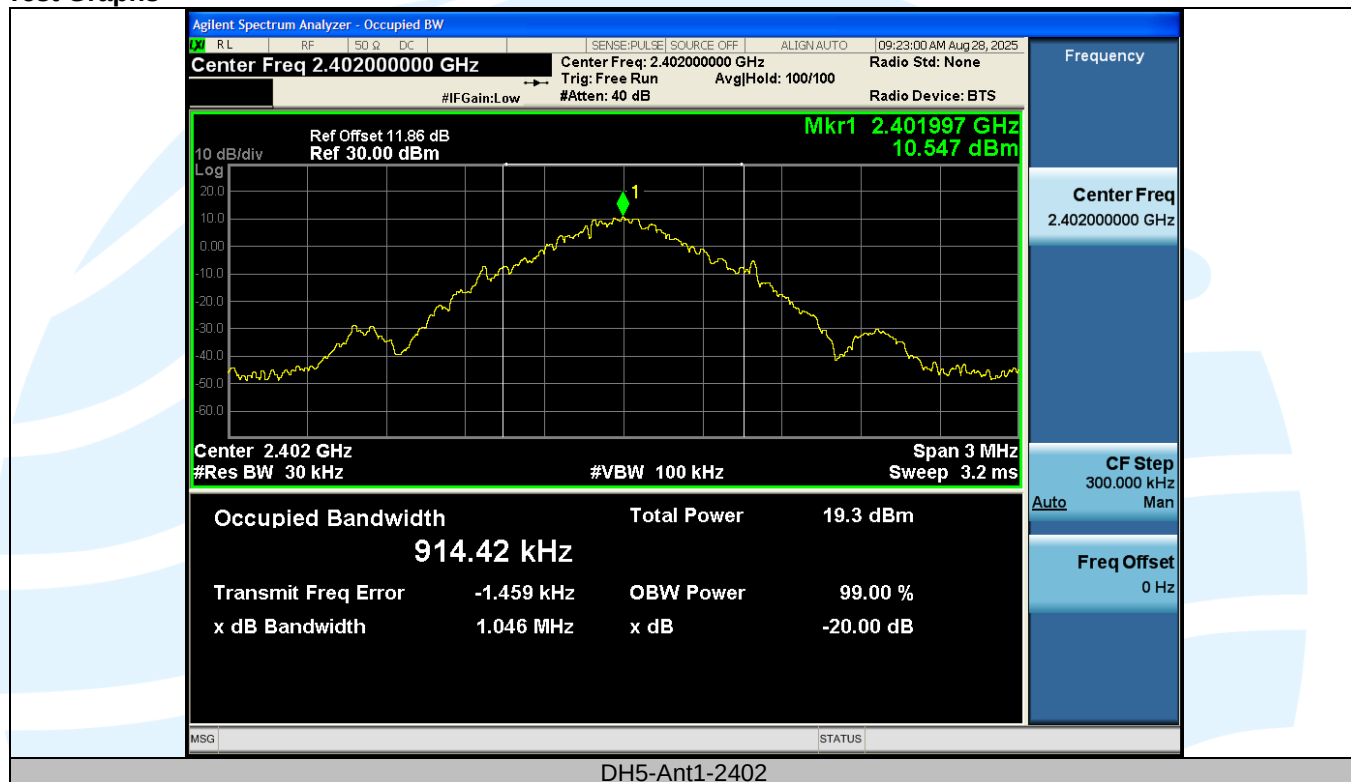


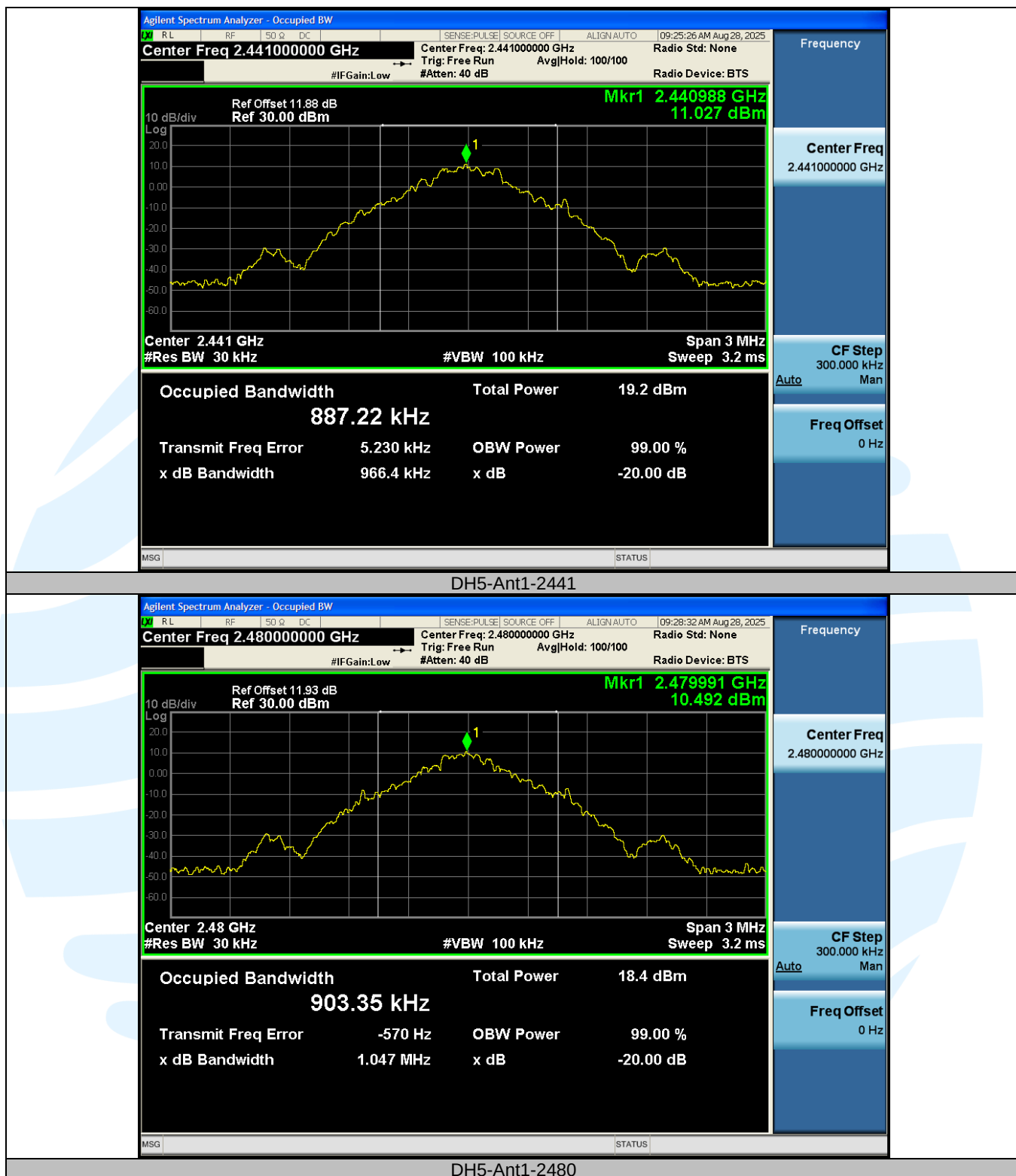
A.3 20DB BANDWIDTH

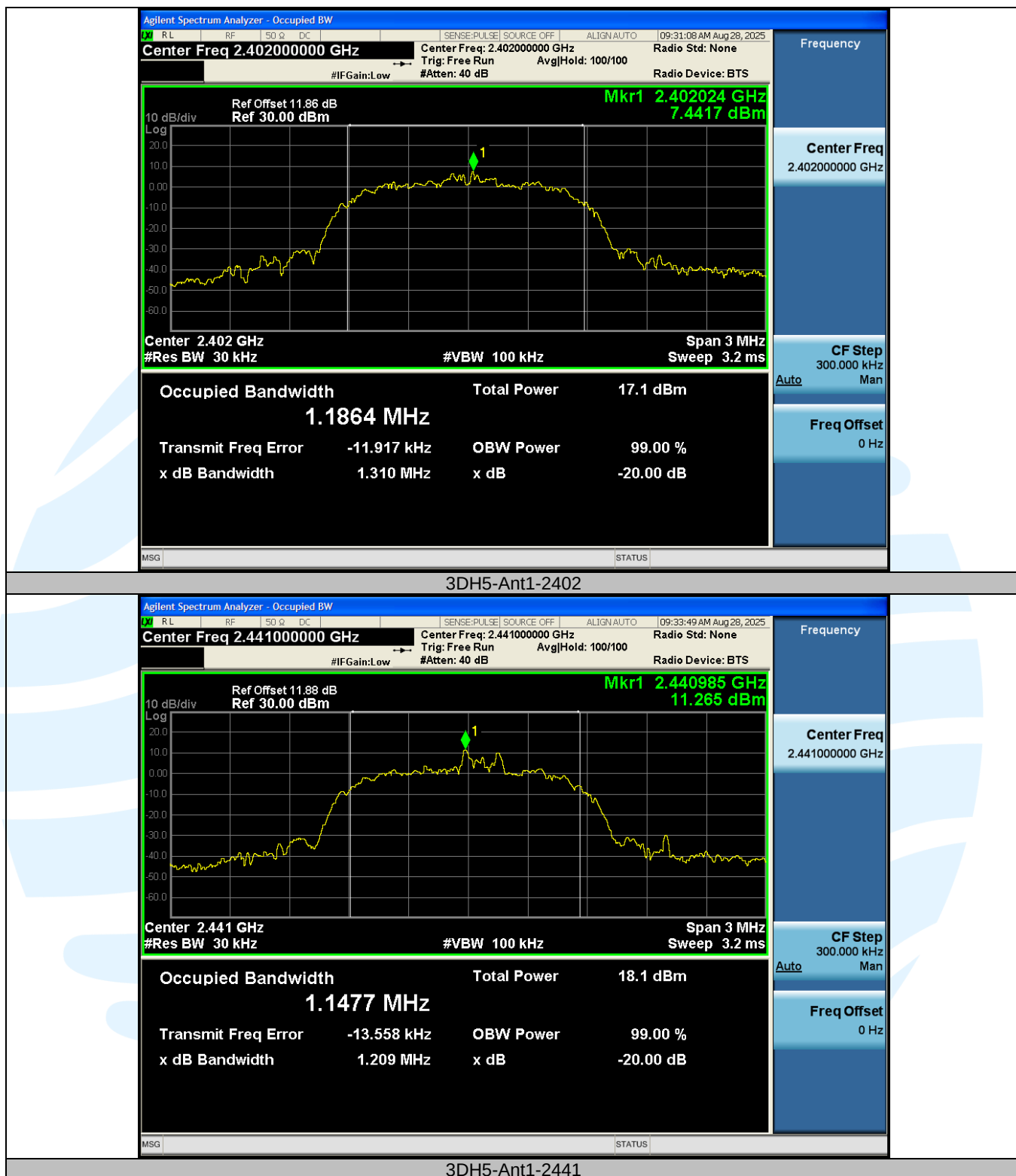
Left earbud

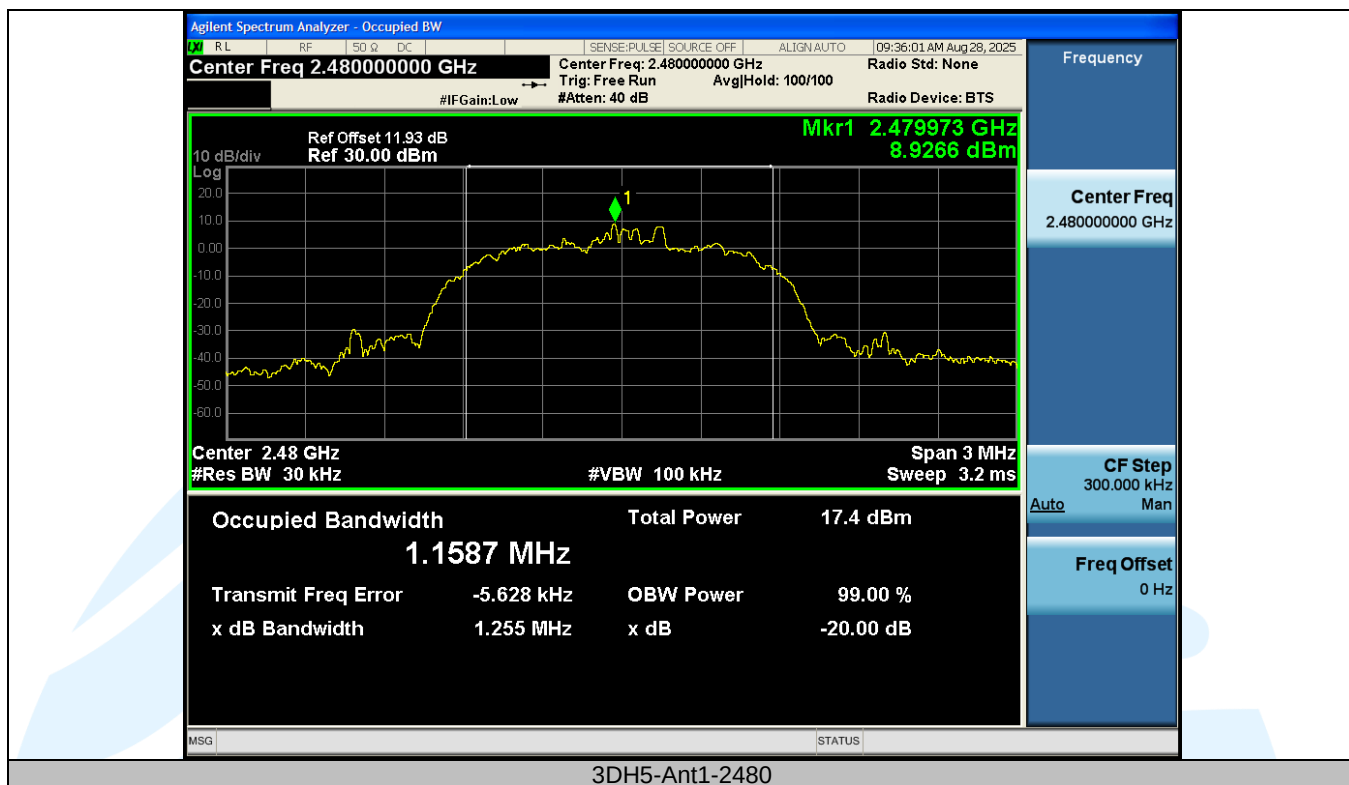
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
DH5	Ant1	2402	1.046
DH5	Ant1	2441	0.9664
DH5	Ant1	2480	1.047
3DH5	Ant1	2402	1.310
3DH5	Ant1	2441	1.209
3DH5	Ant1	2480	1.255

Test Graphs









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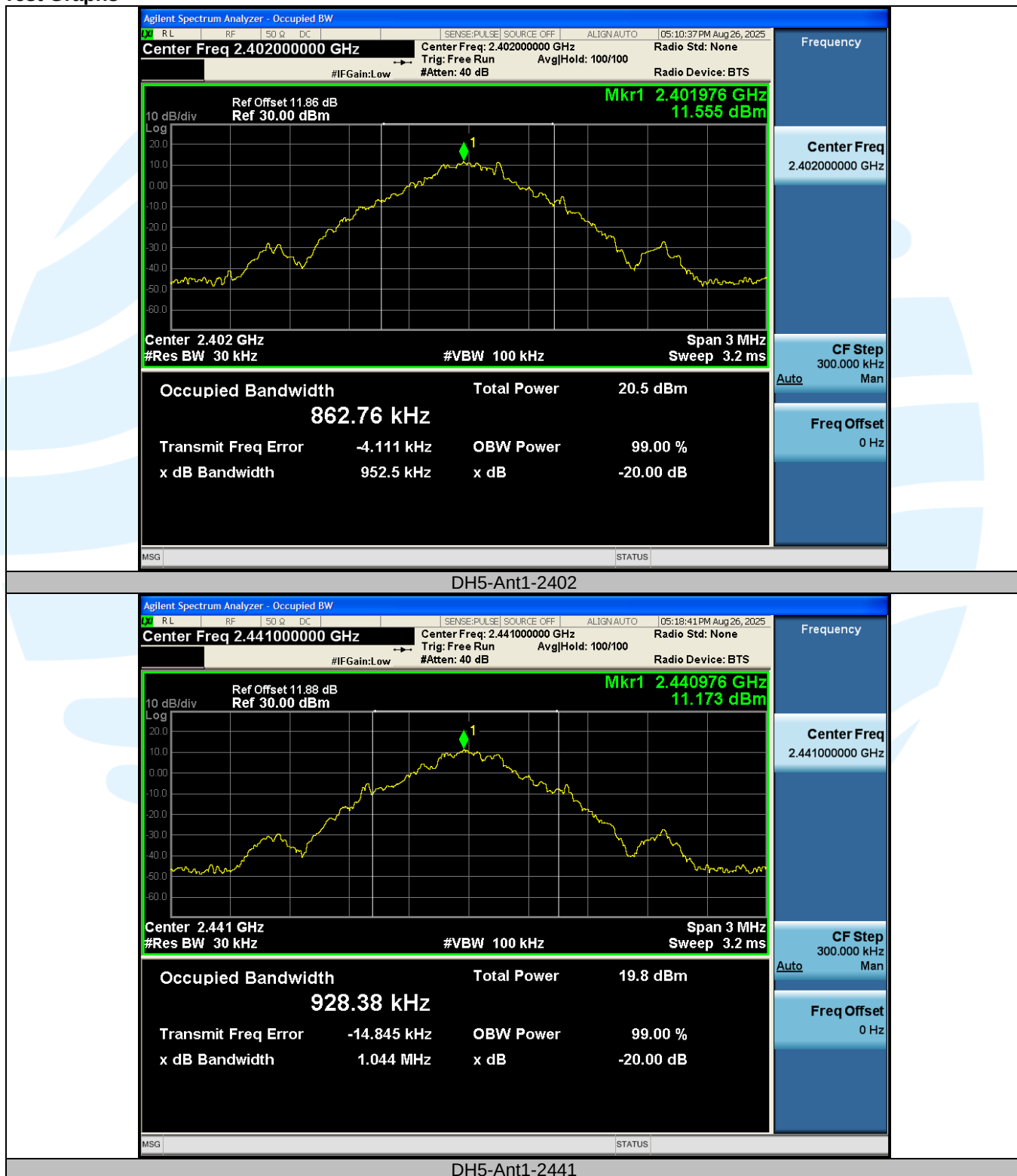
<http://www.uttlab.com>

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Right earbud

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
DH5	Ant1	2402	0.9525
DH5	Ant1	2441	1.044
DH5	Ant1	2480	0.9794
3DH5	Ant1	2402	1.307
3DH5	Ant1	2441	1.201
3DH5	Ant1	2480	1.239

Test Graphs



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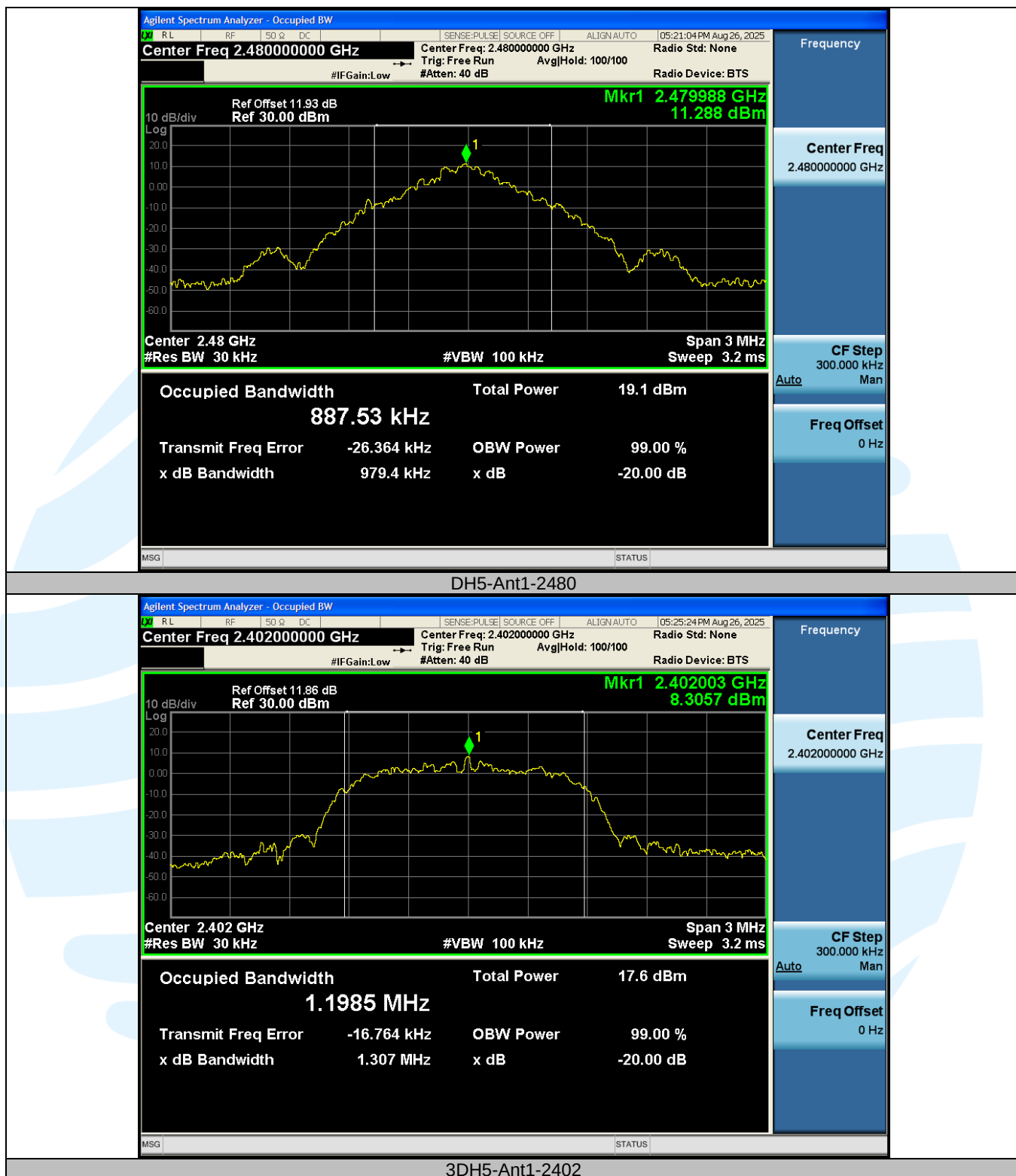
Tel: +86-755-28230888

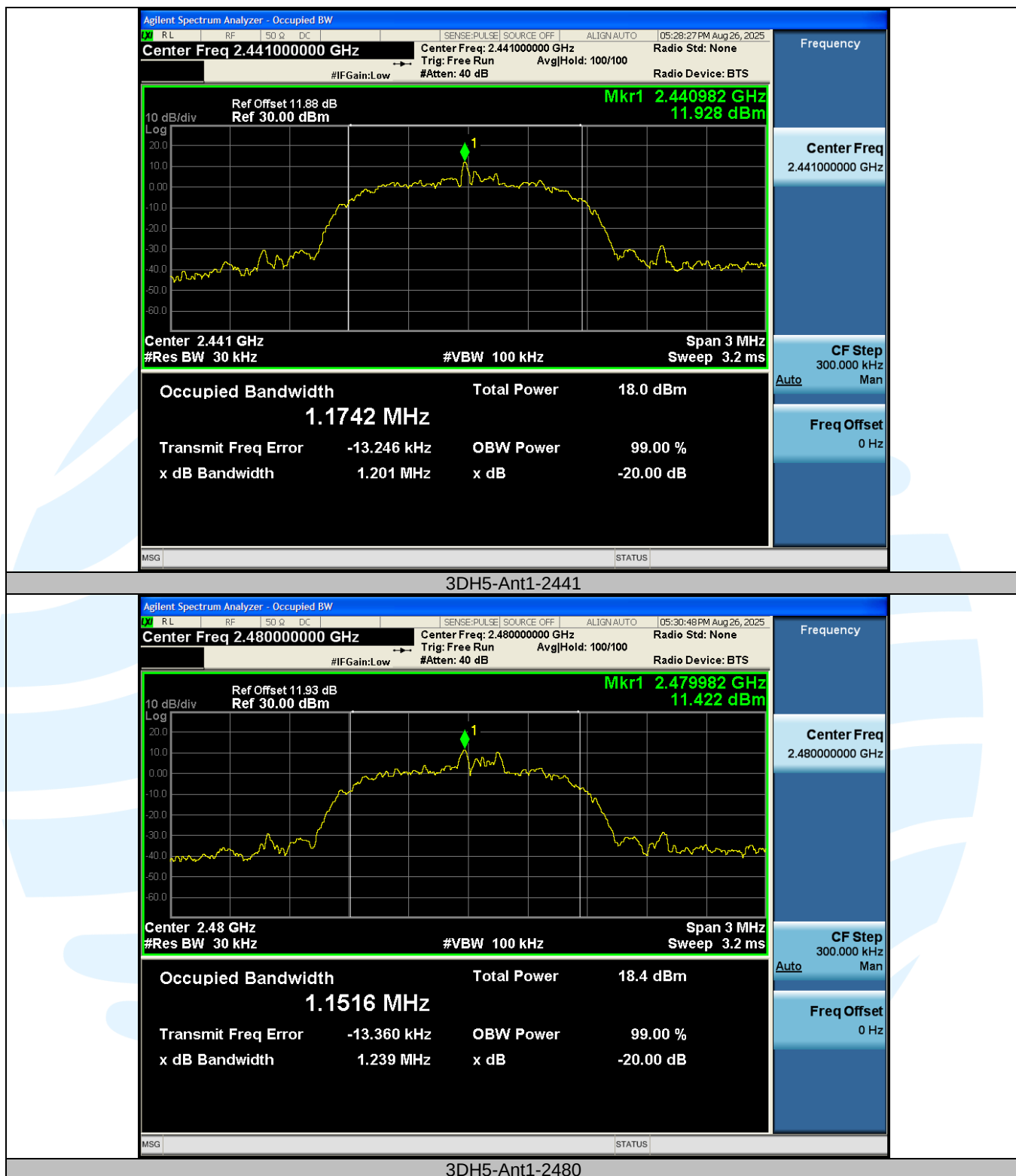
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A.4 CARRIER FREQUENCIES SEPARATION

Left earbud

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop_2402	1.012	≥ 0.698	PASS
3DH5	Ant1	Hop_2402	1.06	≥ 0.873	PASS

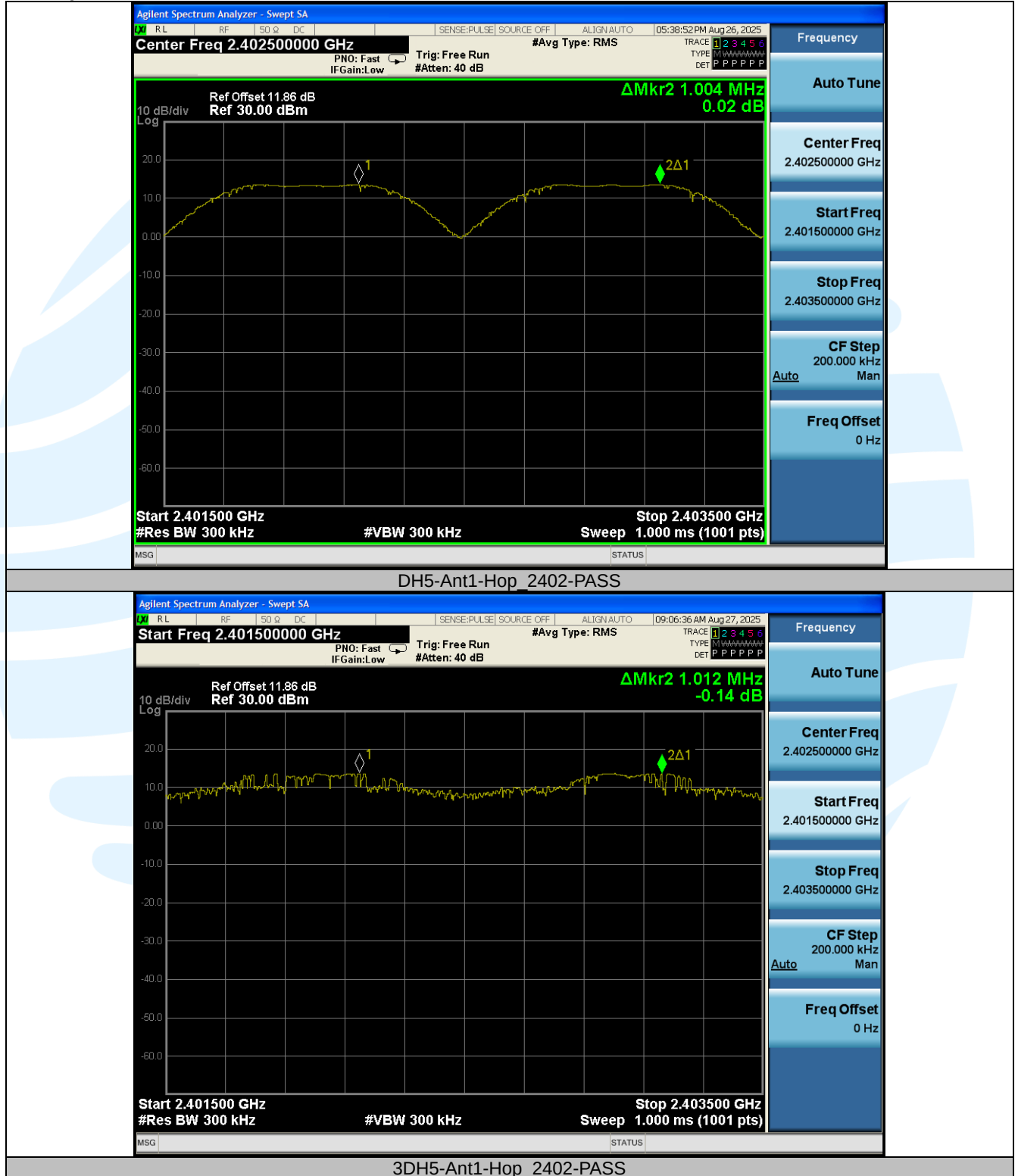
Test Graphs



Right earbud

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop_2402	1.004	≥ 0.696	PASS
3DH5	Ant1	Hop_2402	1.012	≥ 0.871	PASS

Test Graphs



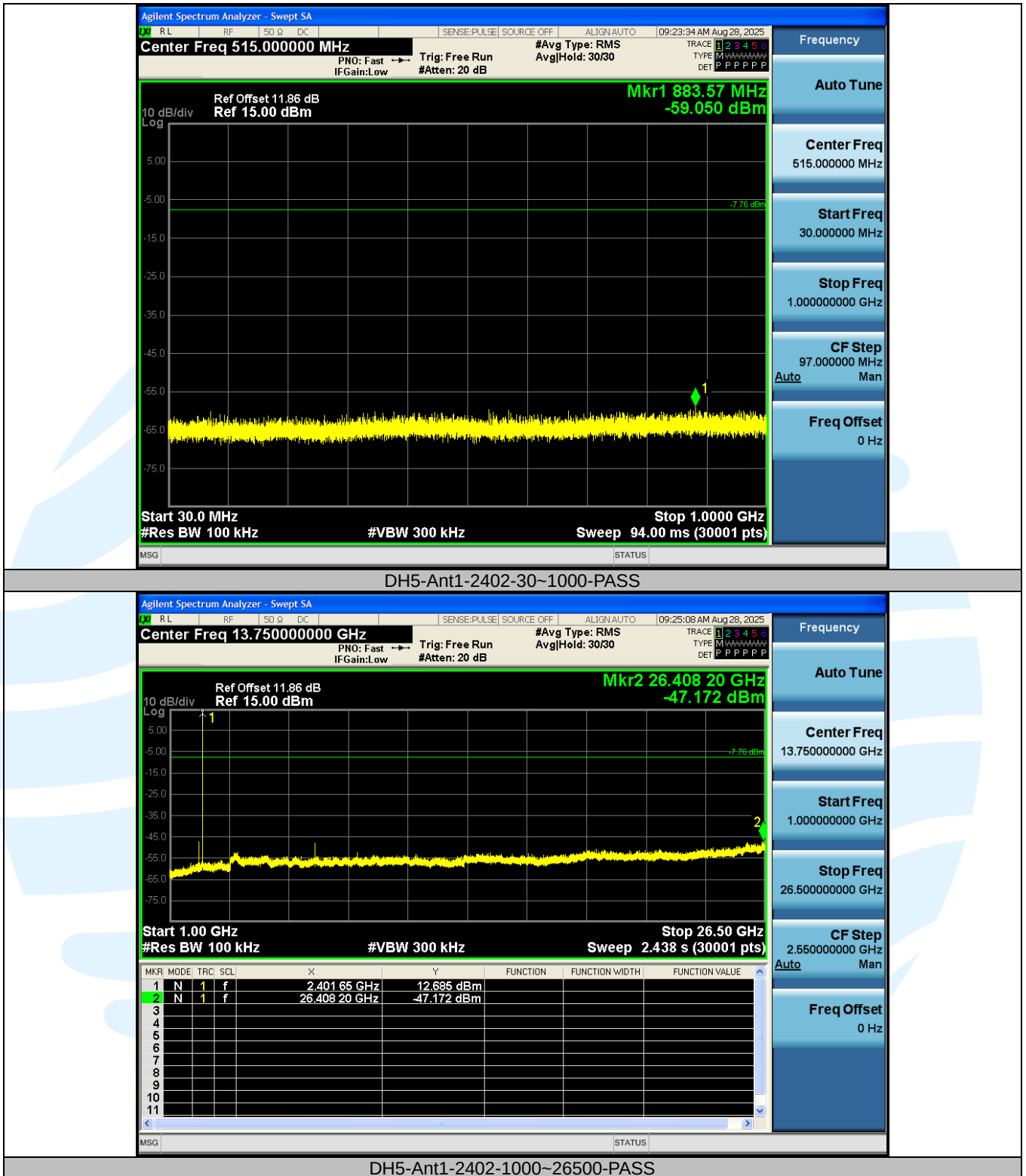
A.5 CONDUCTED OUT OF BAND EMISSION

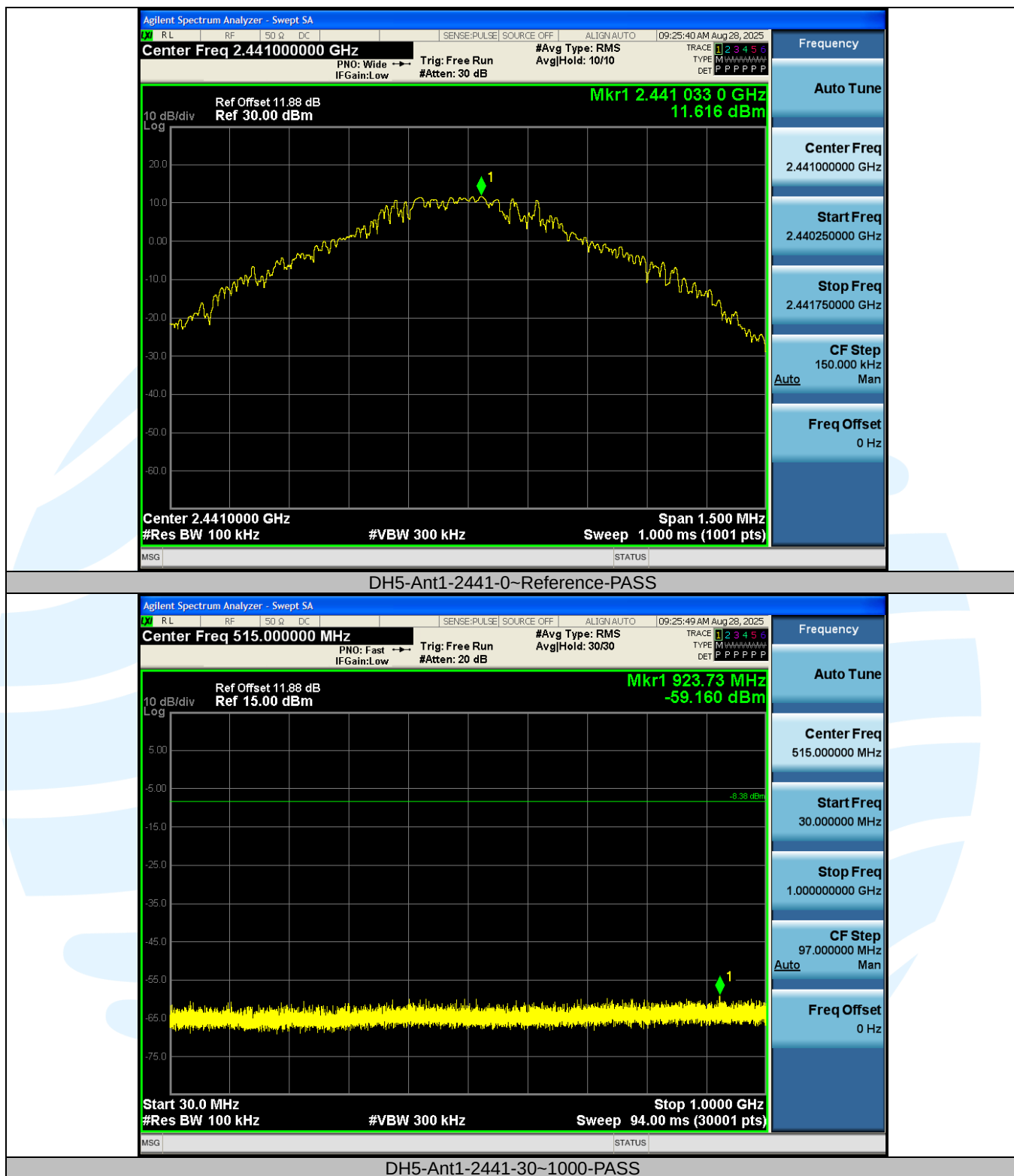
Left earbud

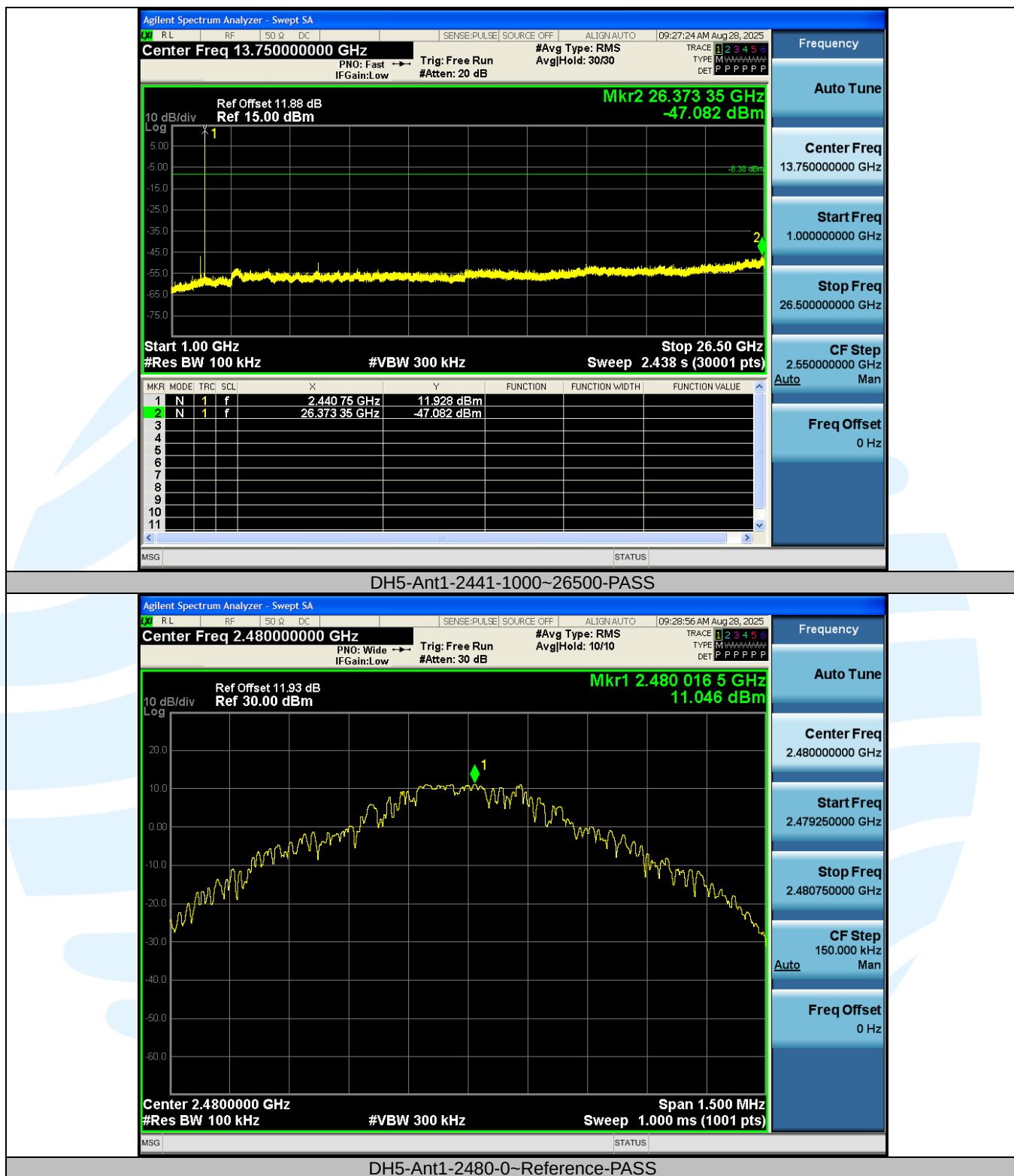
Test Mode	Antenna	Frequency [MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	12.24	12.24	---	PASS
DH5	Ant1	2402	30~1000	12.24	-59.05	≤-7.76	PASS
DH5	Ant1	2402	1000~26500	12.24	-47.17	≤-7.76	PASS
DH5	Ant1	2441	0~Reference	11.62	11.62	---	PASS
DH5	Ant1	2441	30~1000	11.62	-59.16	≤-8.38	PASS
DH5	Ant1	2441	1000~26500	11.62	-47.08	≤-8.38	PASS
DH5	Ant1	2480	0~Reference	11.05	11.05	---	PASS
DH5	Ant1	2480	30~1000	11.05	-58.17	≤-8.95	PASS
DH5	Ant1	2480	1000~26500	11.05	-46.46	≤-8.95	PASS
3DH5	Ant1	2402	0~Reference	10.67	10.67	---	PASS
3DH5	Ant1	2402	30~1000	10.67	-58.54	≤-9.33	PASS
3DH5	Ant1	2402	1000~26500	10.67	-46.98	≤-9.33	PASS
3DH5	Ant1	2441	0~Reference	6.89	6.89	---	PASS
3DH5	Ant1	2441	30~1000	6.89	-58.28	≤-13.11	PASS
3DH5	Ant1	2441	1000~26500	6.89	-47.07	≤-13.11	PASS
3DH5	Ant1	2480	0~Reference	10.39	10.39	---	PASS
3DH5	Ant1	2480	30~1000	10.39	-59.01	≤-9.61	PASS
3DH5	Ant1	2480	1000~26500	10.39	-46.92	≤-9.61	PASS

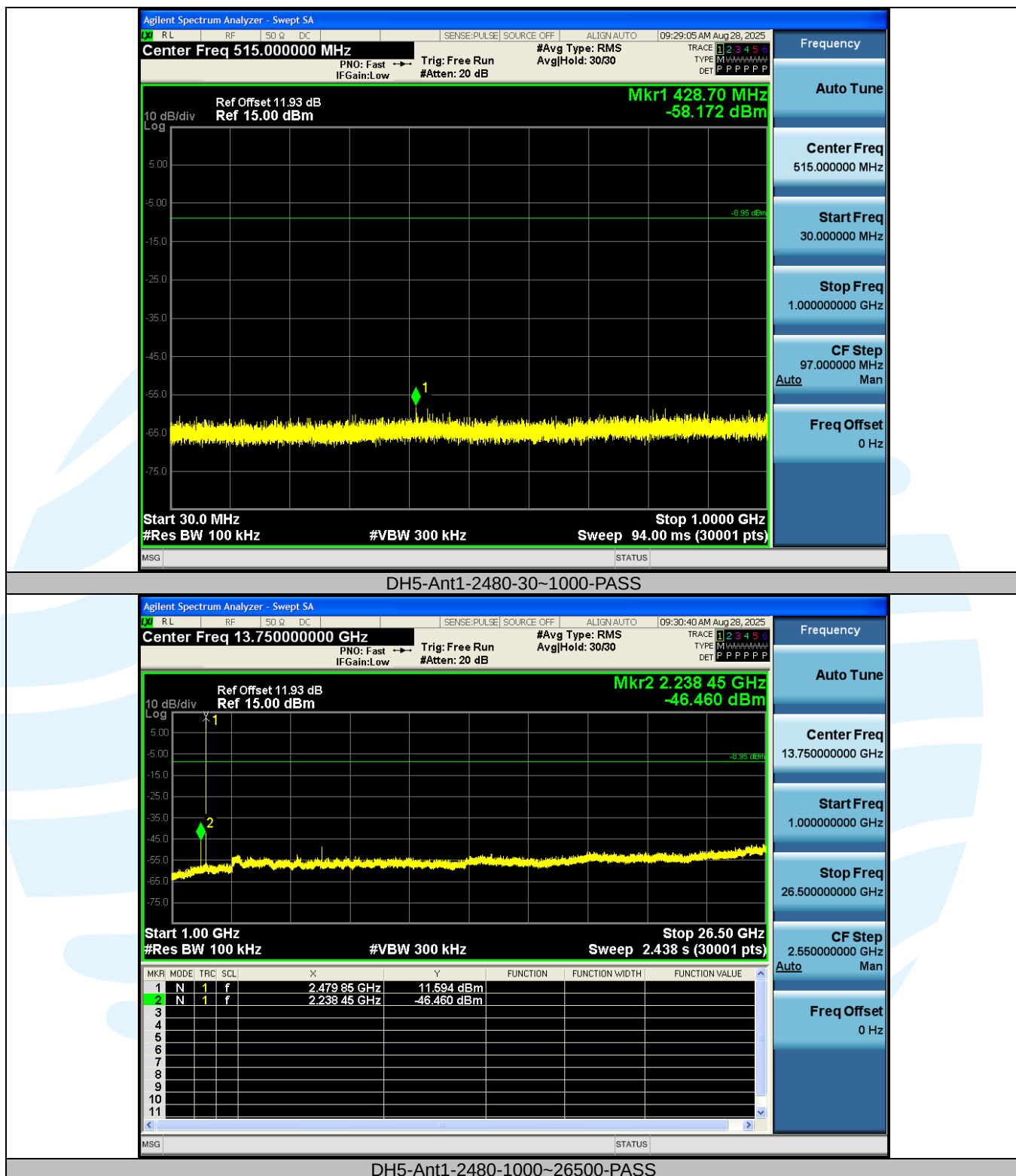
Test Graphs

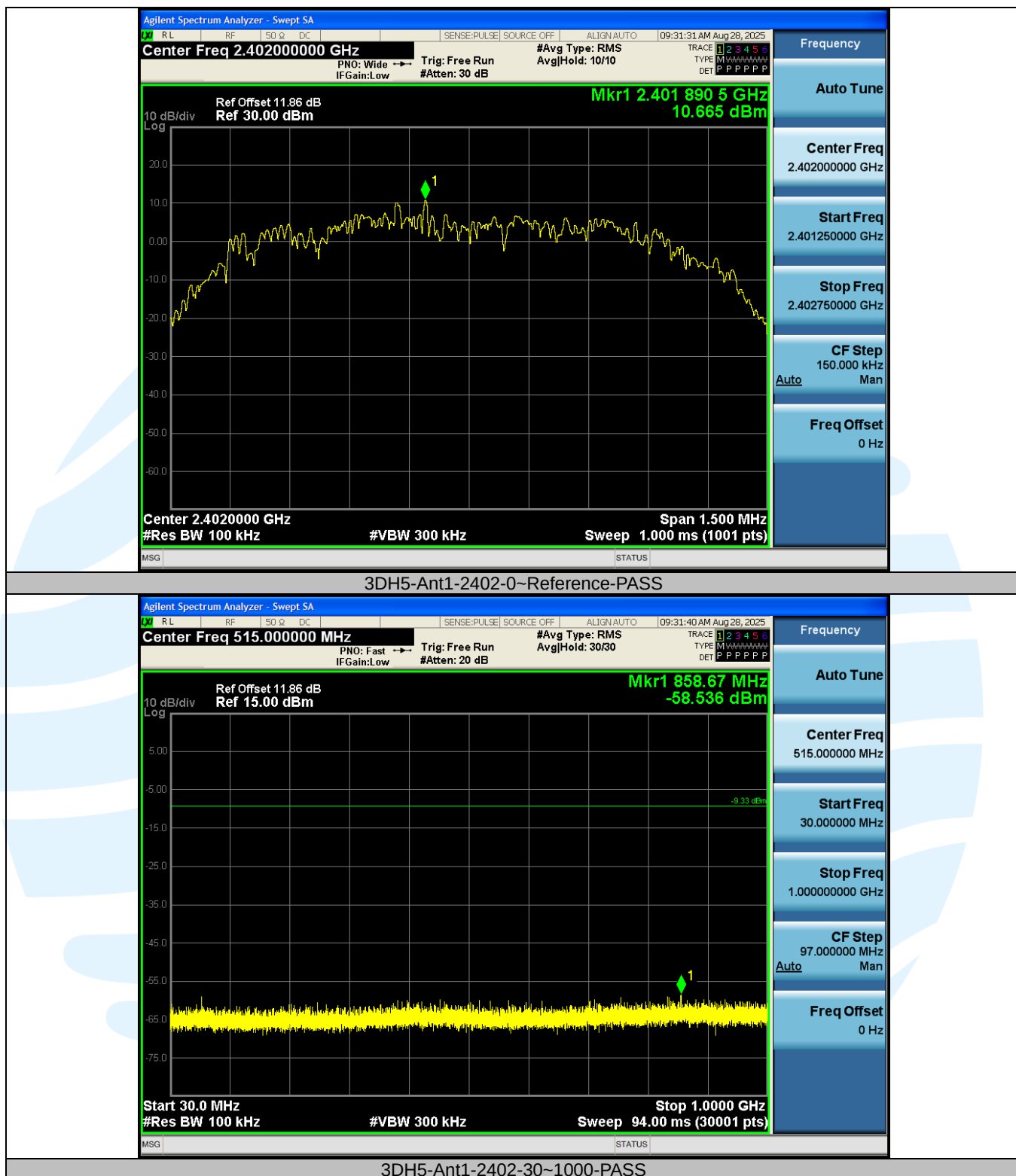


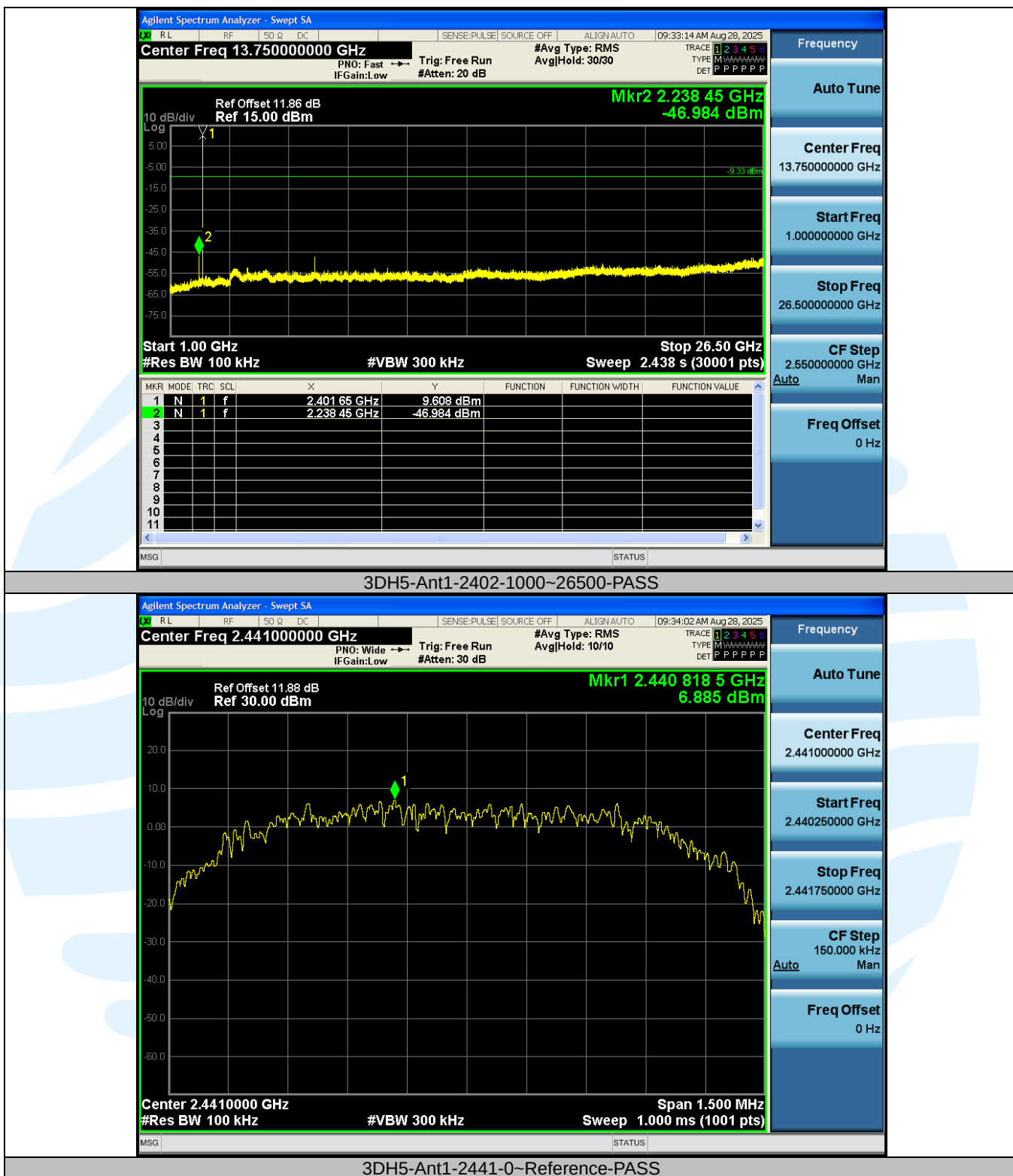


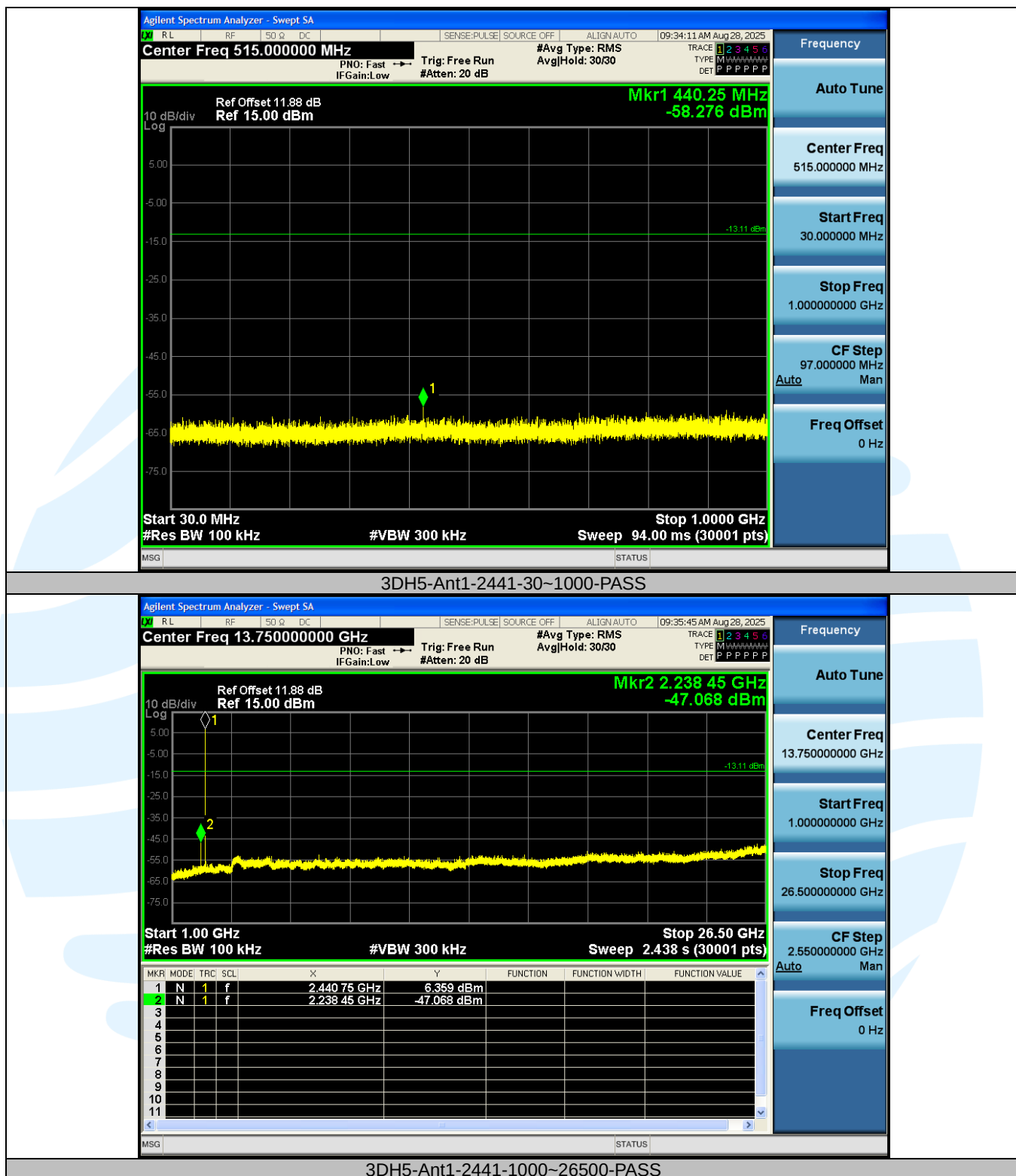


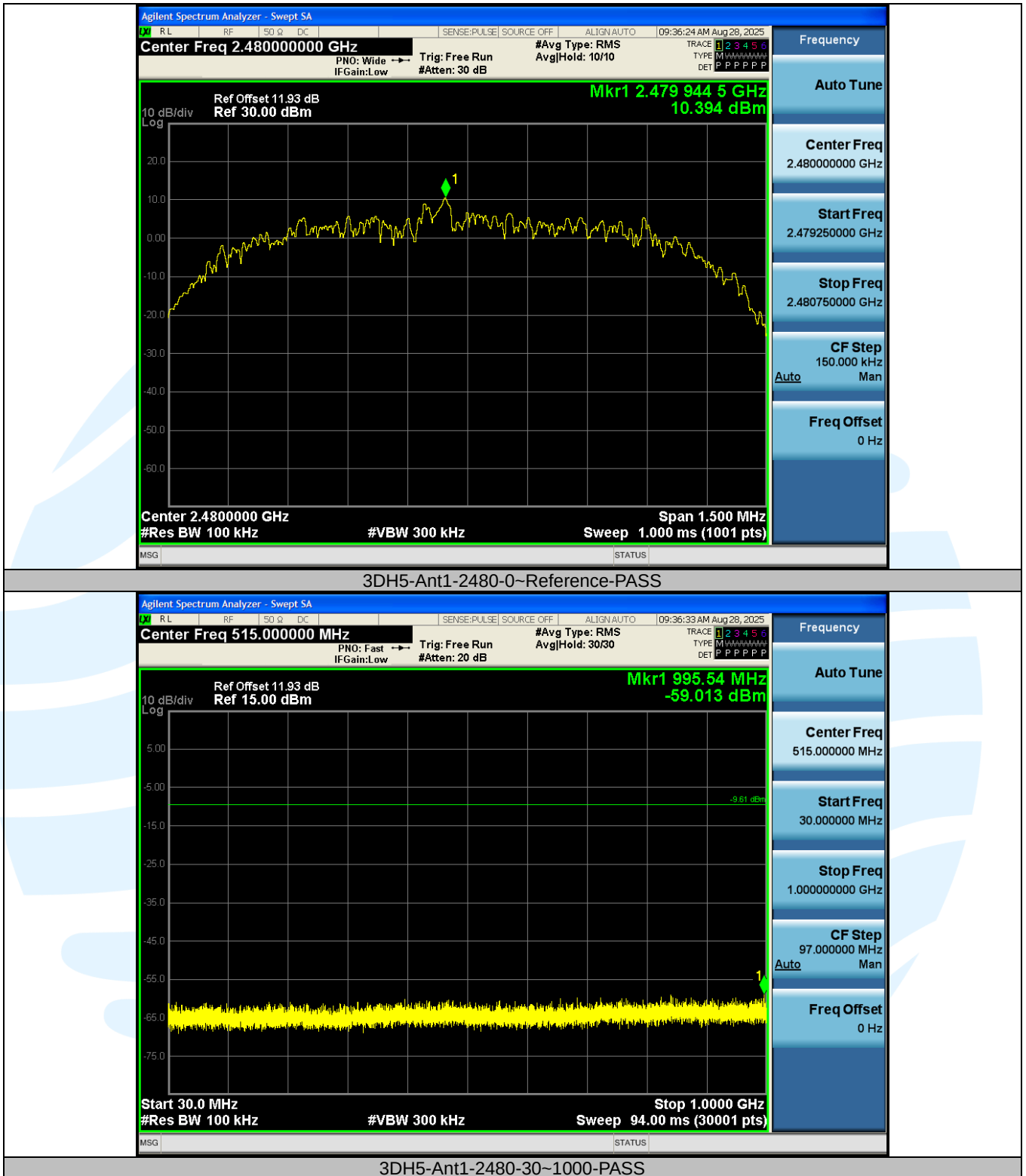


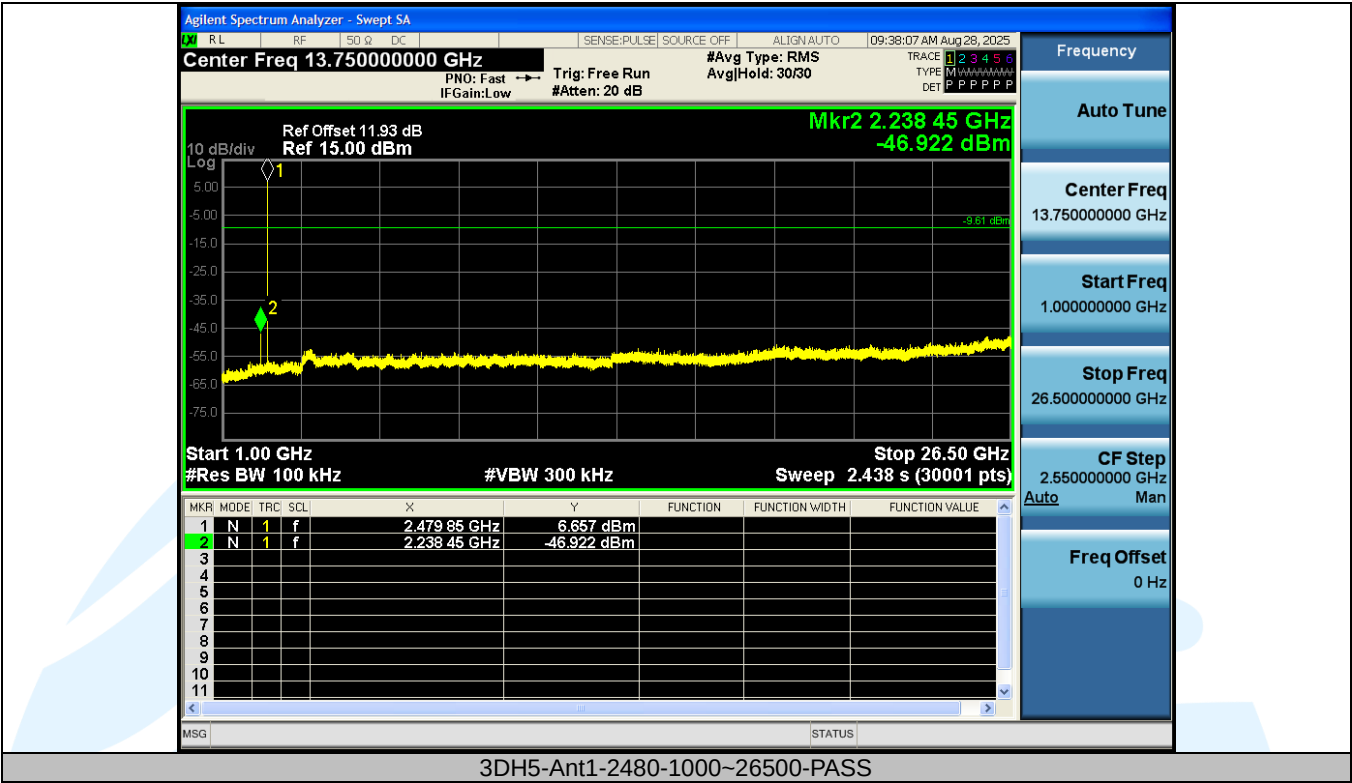












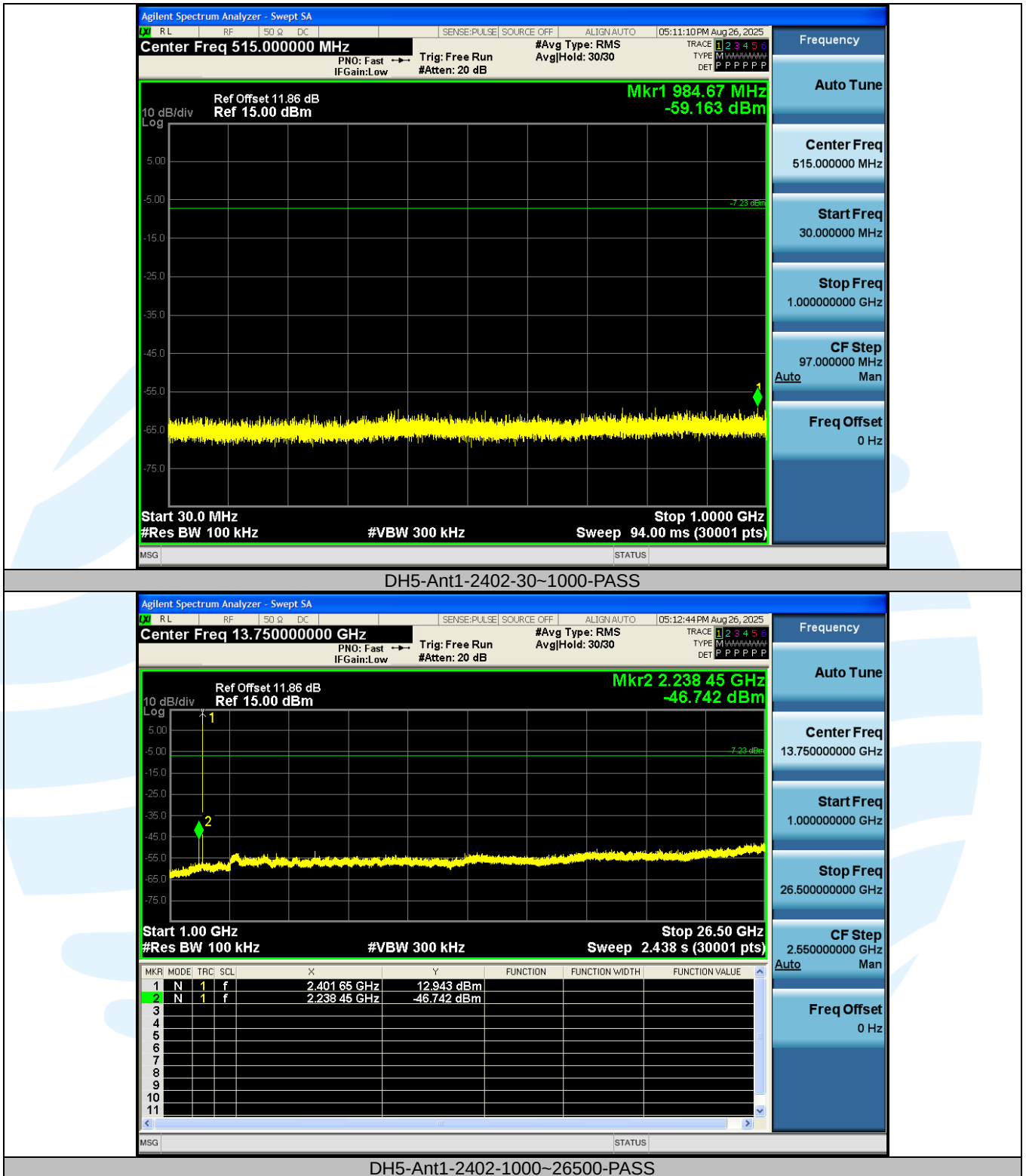
3DH5-Ant1-2480-1000-26500-PASS

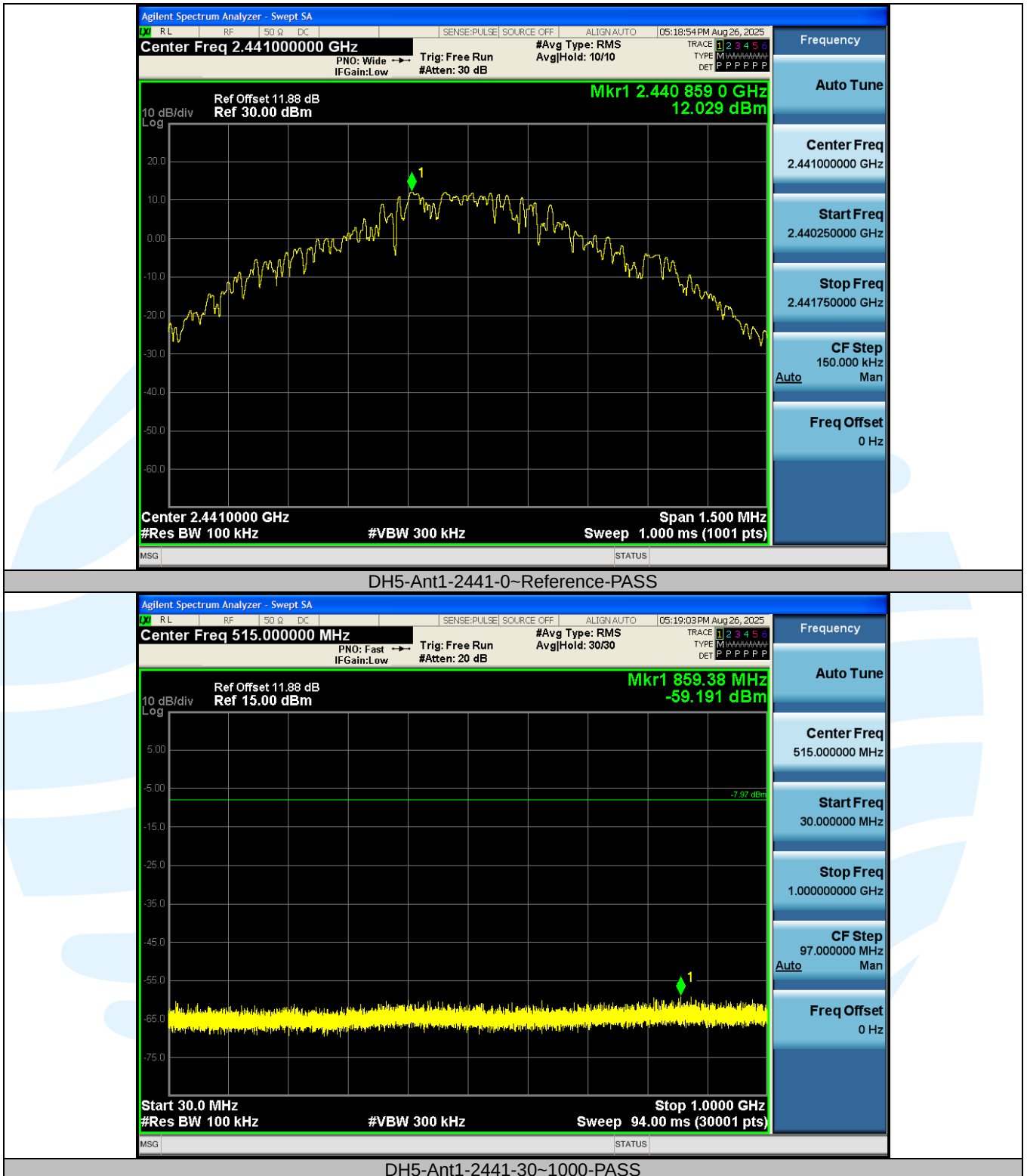
Right earbud

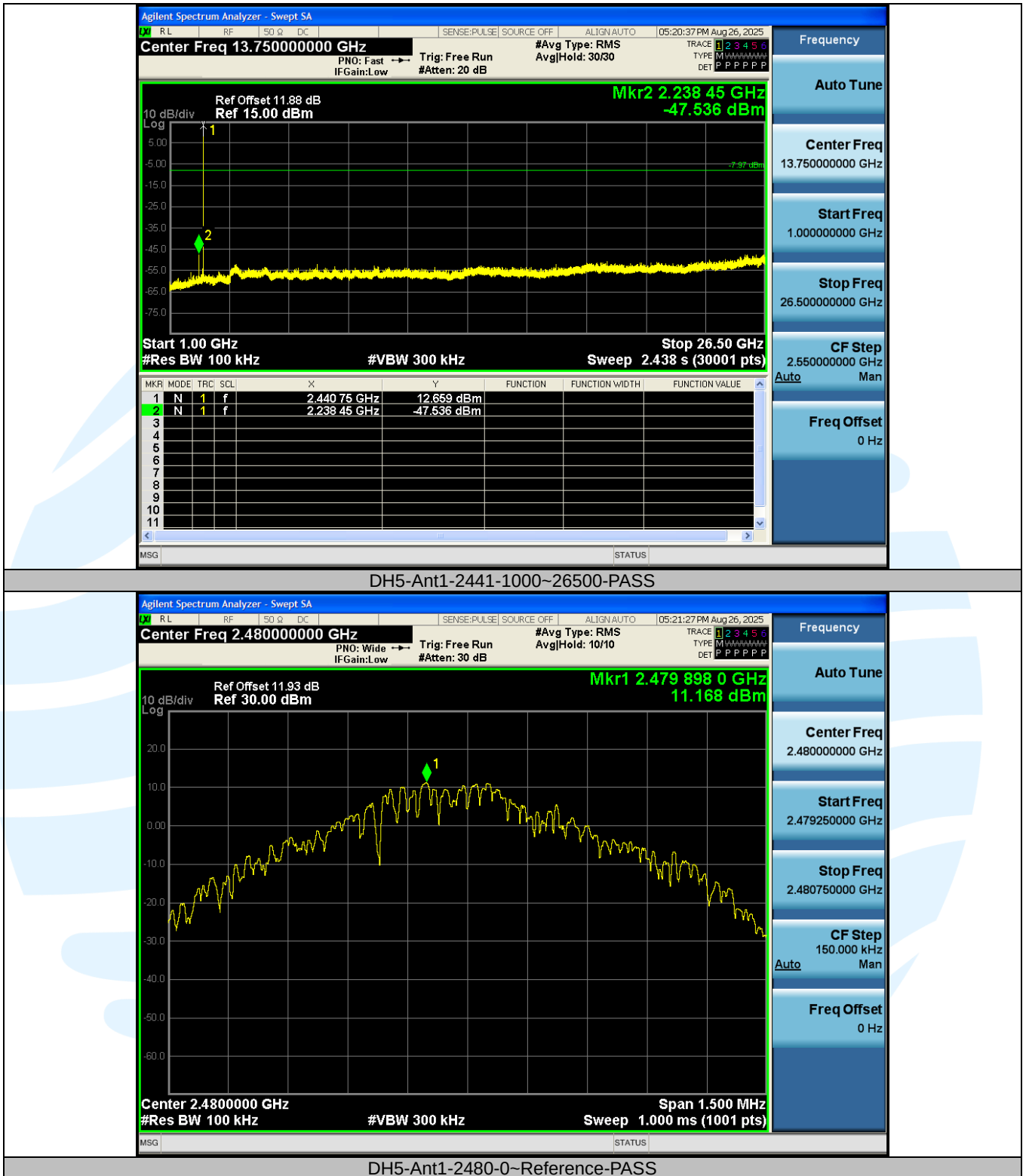
Test Mode	Antenna	Frequency [MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	12.77	12.77	---	PASS
DH5	Ant1	2402	30~1000	12.77	-59.16	≤-7.23	PASS
DH5	Ant1	2402	1000~26500	12.77	-46.74	≤-7.23	PASS
DH5	Ant1	2441	0~Reference	12.03	12.03	---	PASS
DH5	Ant1	2441	30~1000	12.03	-59.19	≤-7.97	PASS
DH5	Ant1	2441	1000~26500	12.03	-47.54	≤-7.97	PASS
DH5	Ant1	2480	0~Reference	11.17	11.17	---	PASS
DH5	Ant1	2480	30~1000	11.17	-59.01	≤-8.83	PASS
DH5	Ant1	2480	1000~26500	11.17	-47.08	≤-8.83	PASS
3DH5	Ant1	2402	0~Reference	10.11	10.11	---	PASS
3DH5	Ant1	2402	30~1000	10.11	-59.41	≤-9.89	PASS
3DH5	Ant1	2402	1000~26500	10.11	-47.04	≤-9.89	PASS
3DH5	Ant1	2441	0~Reference	7.10	7.10	---	PASS
3DH5	Ant1	2441	30~1000	7.10	-58.79	≤-12.9	PASS
3DH5	Ant1	2441	1000~26500	7.10	-46.65	≤-12.9	PASS
3DH5	Ant1	2480	0~Reference	10.51	10.51	---	PASS
3DH5	Ant1	2480	30~1000	10.51	-59.52	≤-9.49	PASS
3DH5	Ant1	2480	1000~26500	10.51	-46.99	≤-9.49	PASS

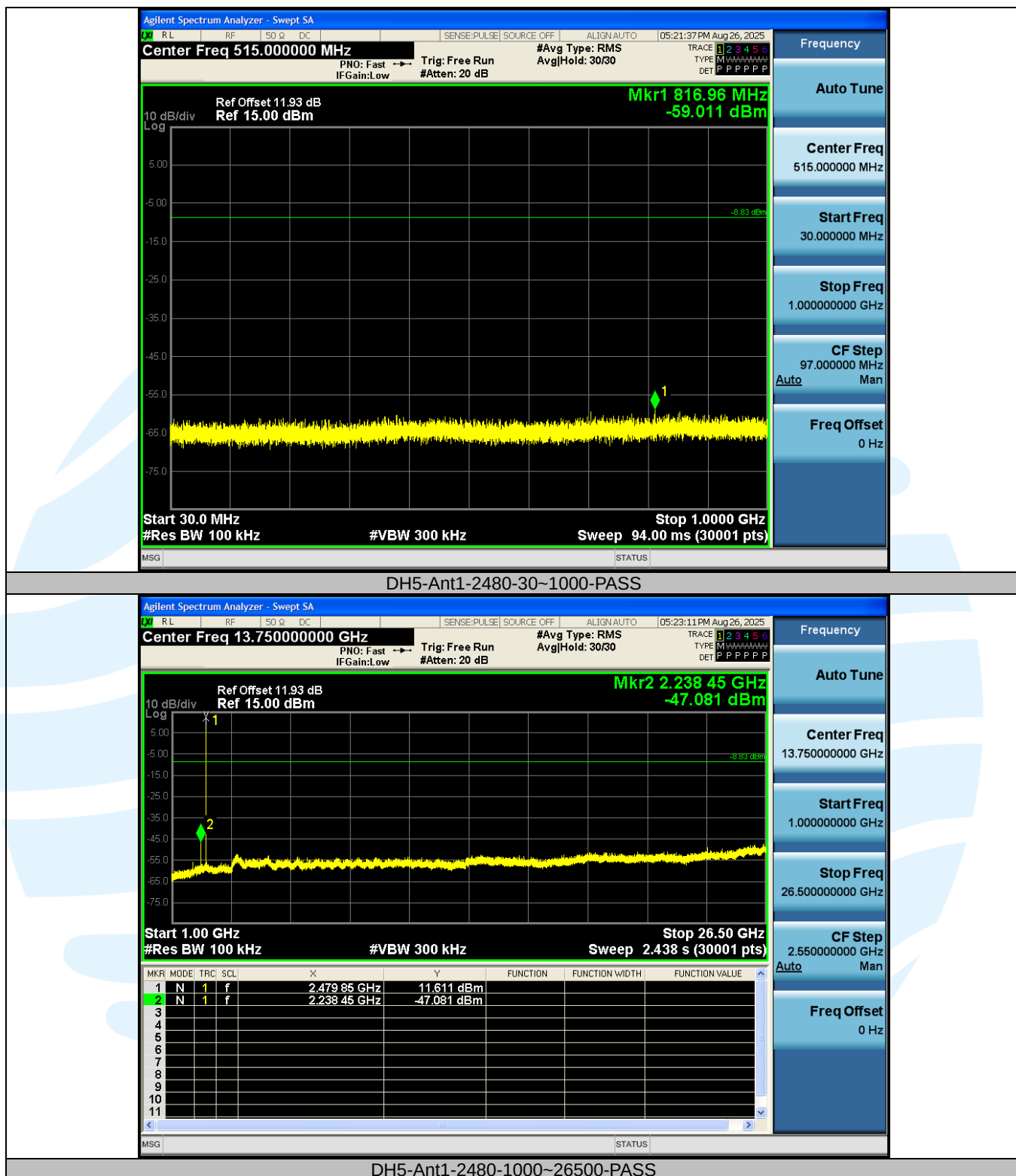
Test Graphs

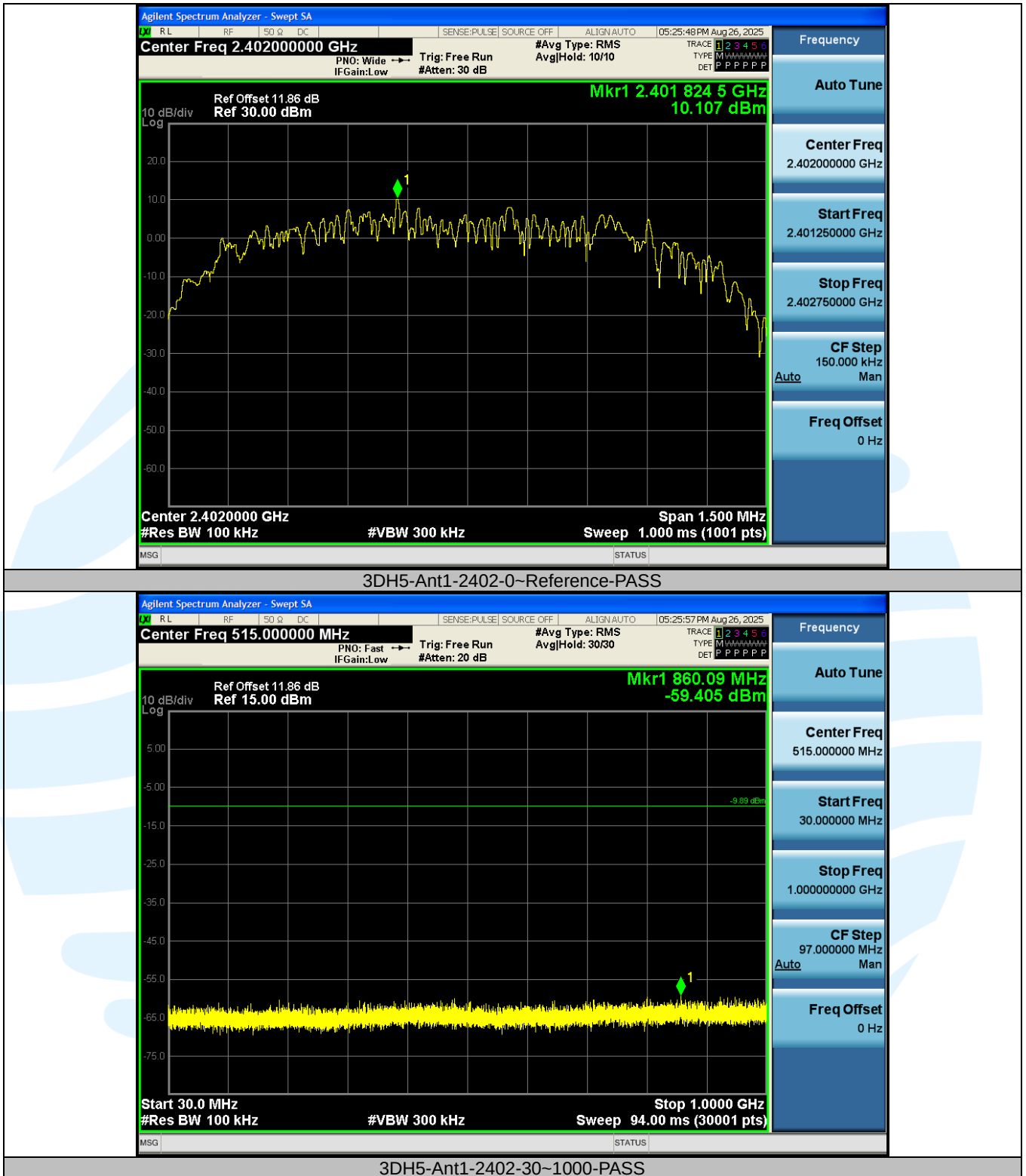


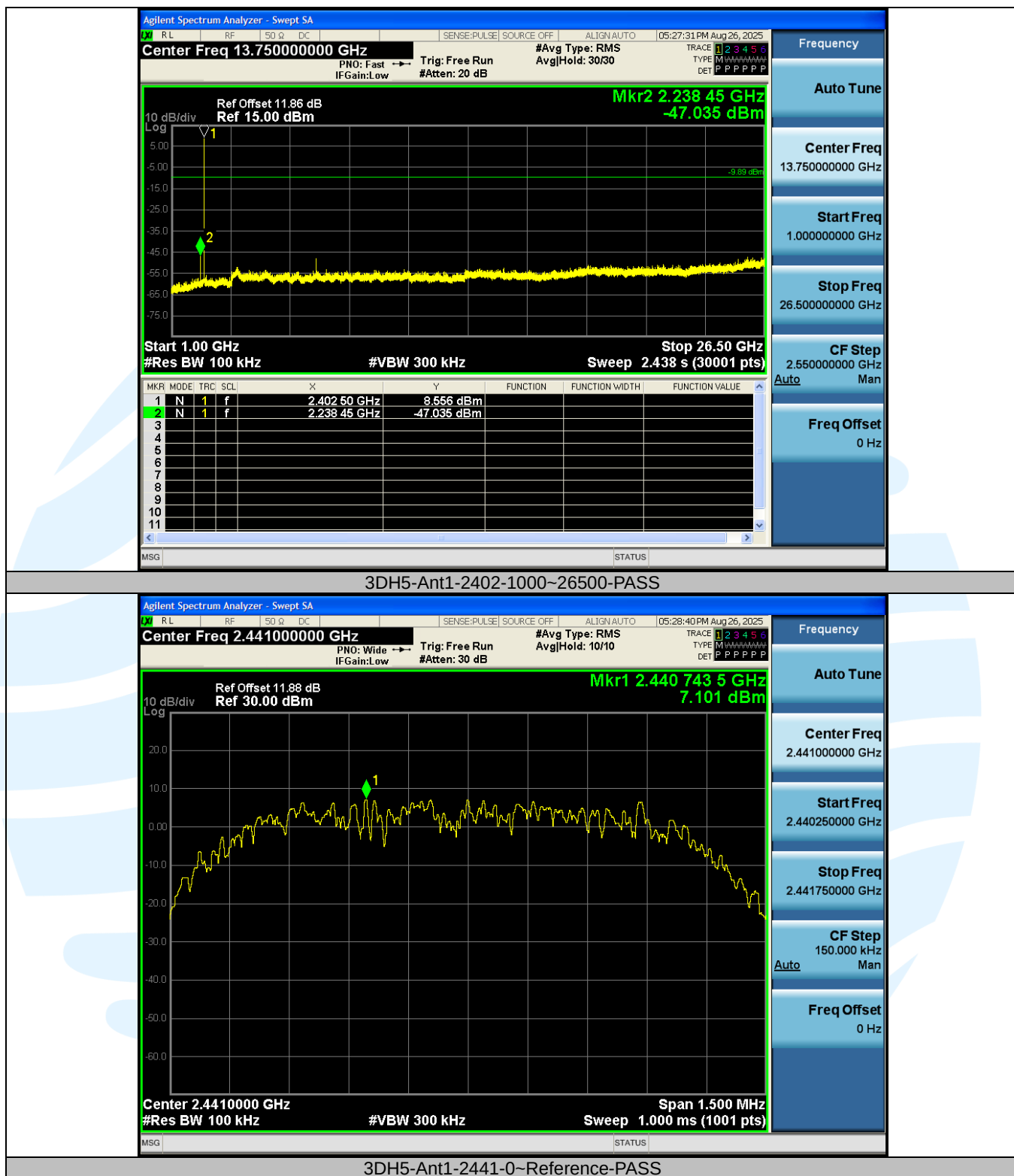


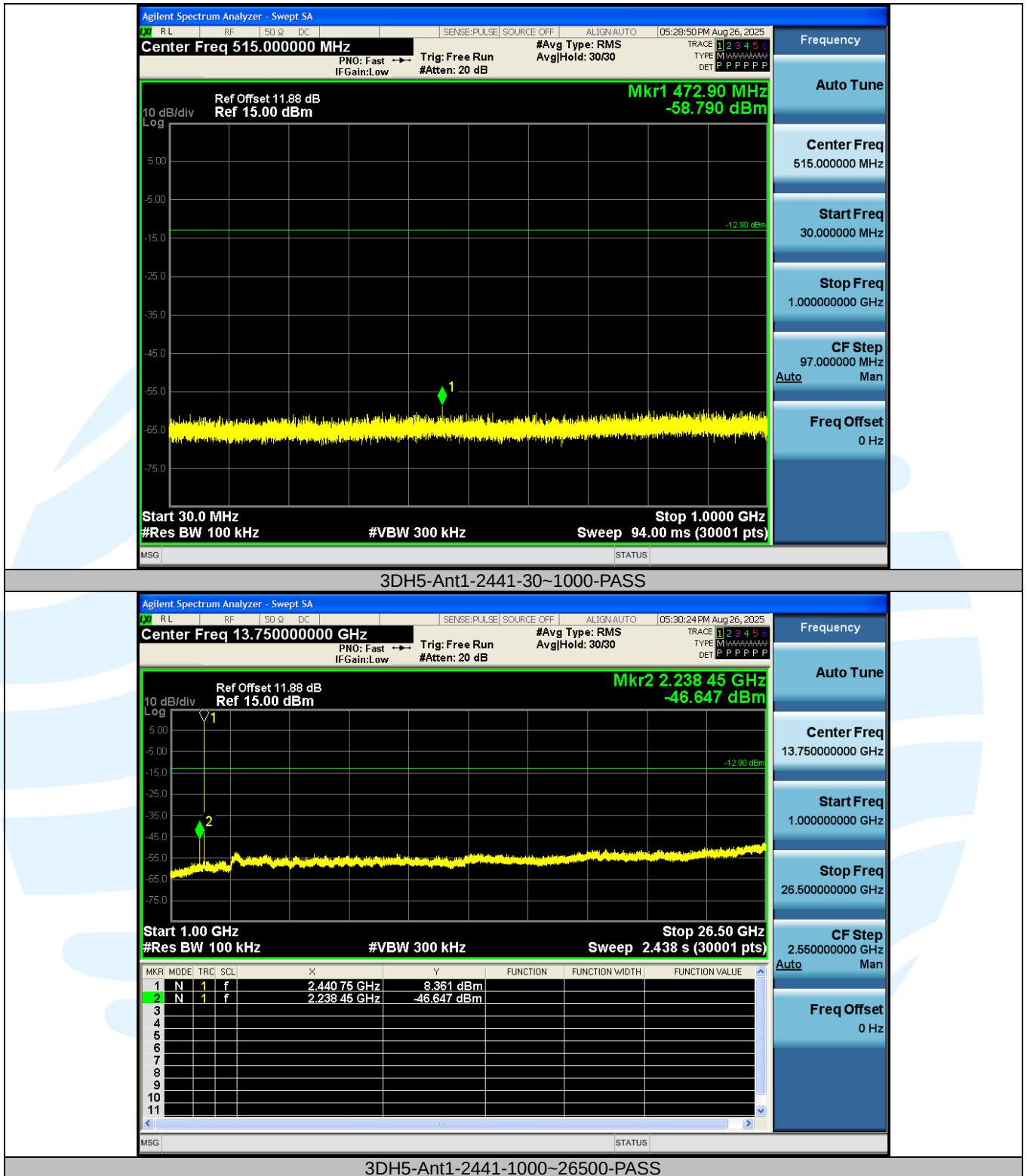


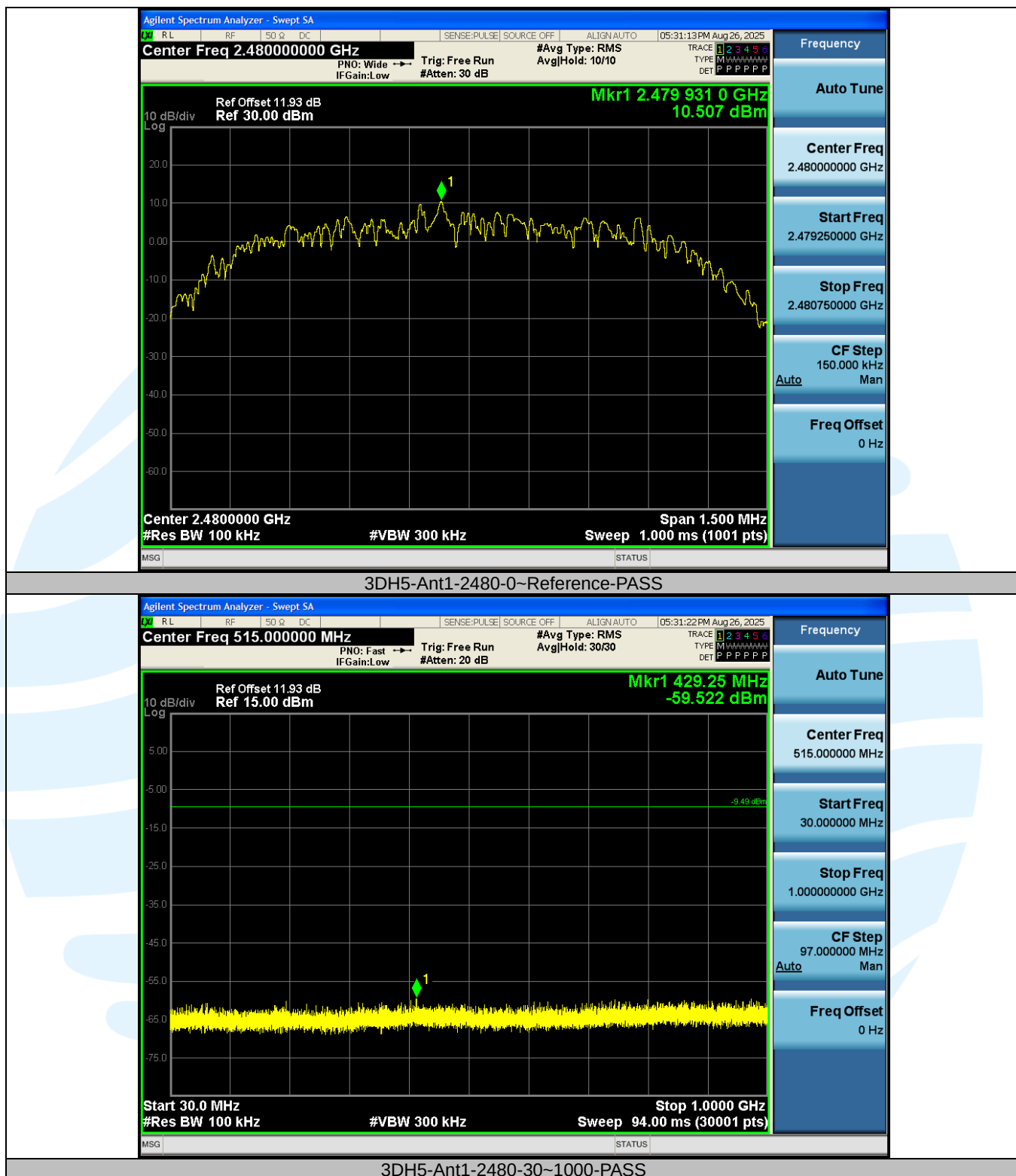


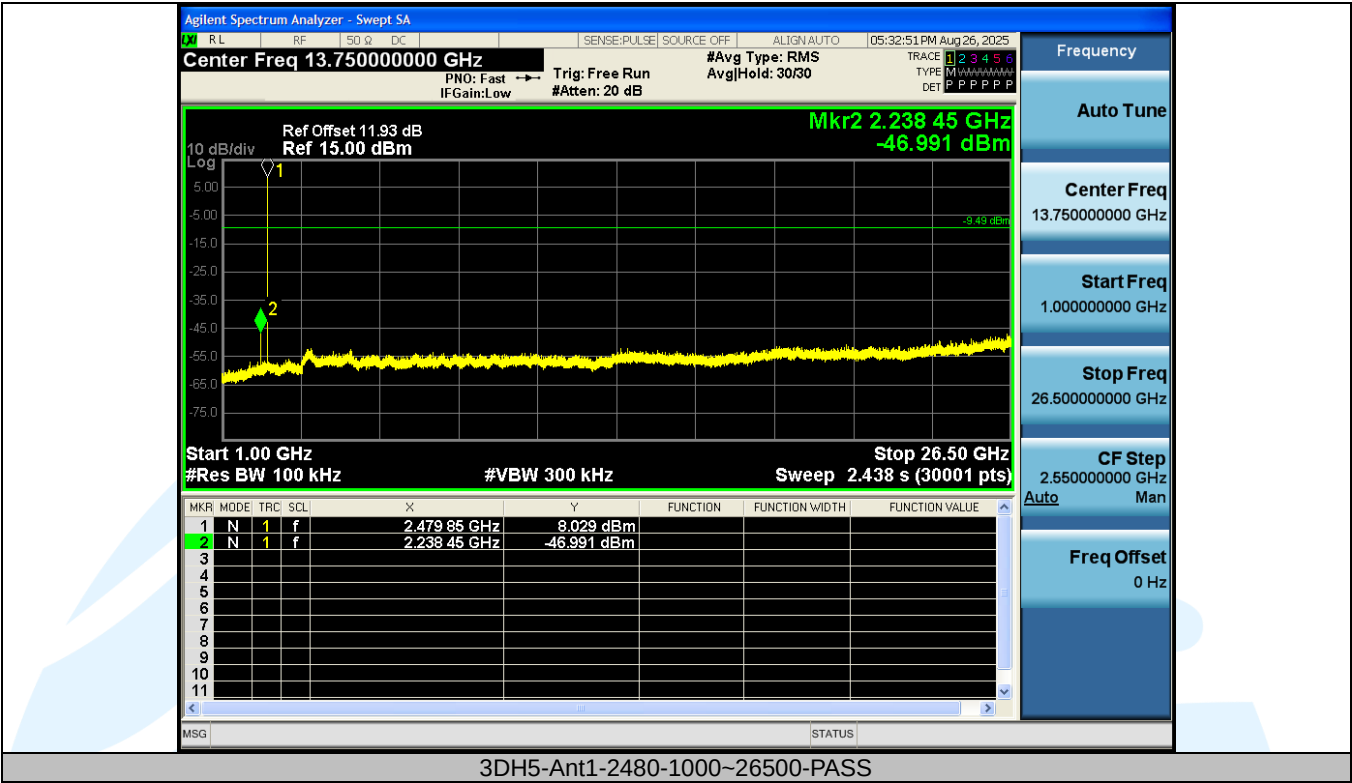










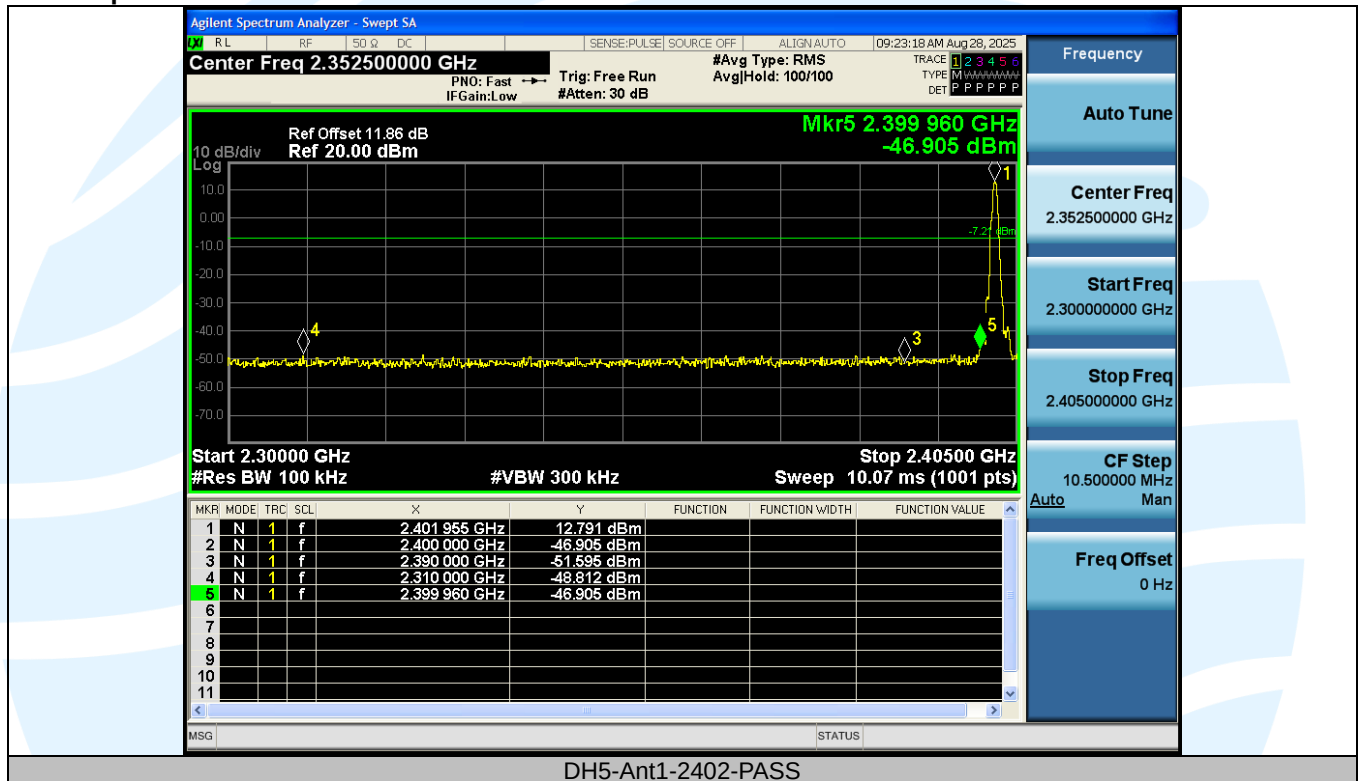


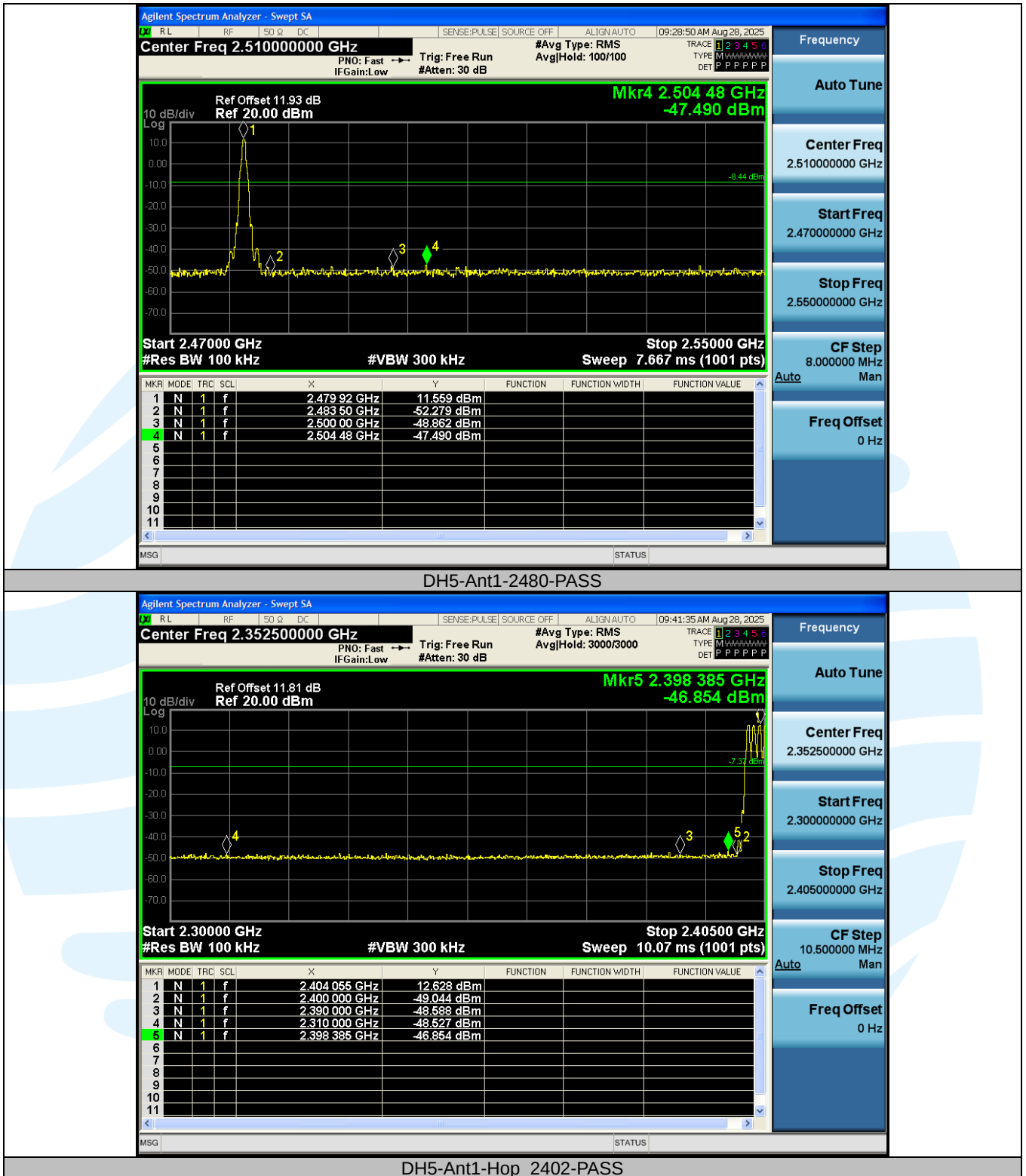
A.6 BAND EDGE MEASUREMENTS

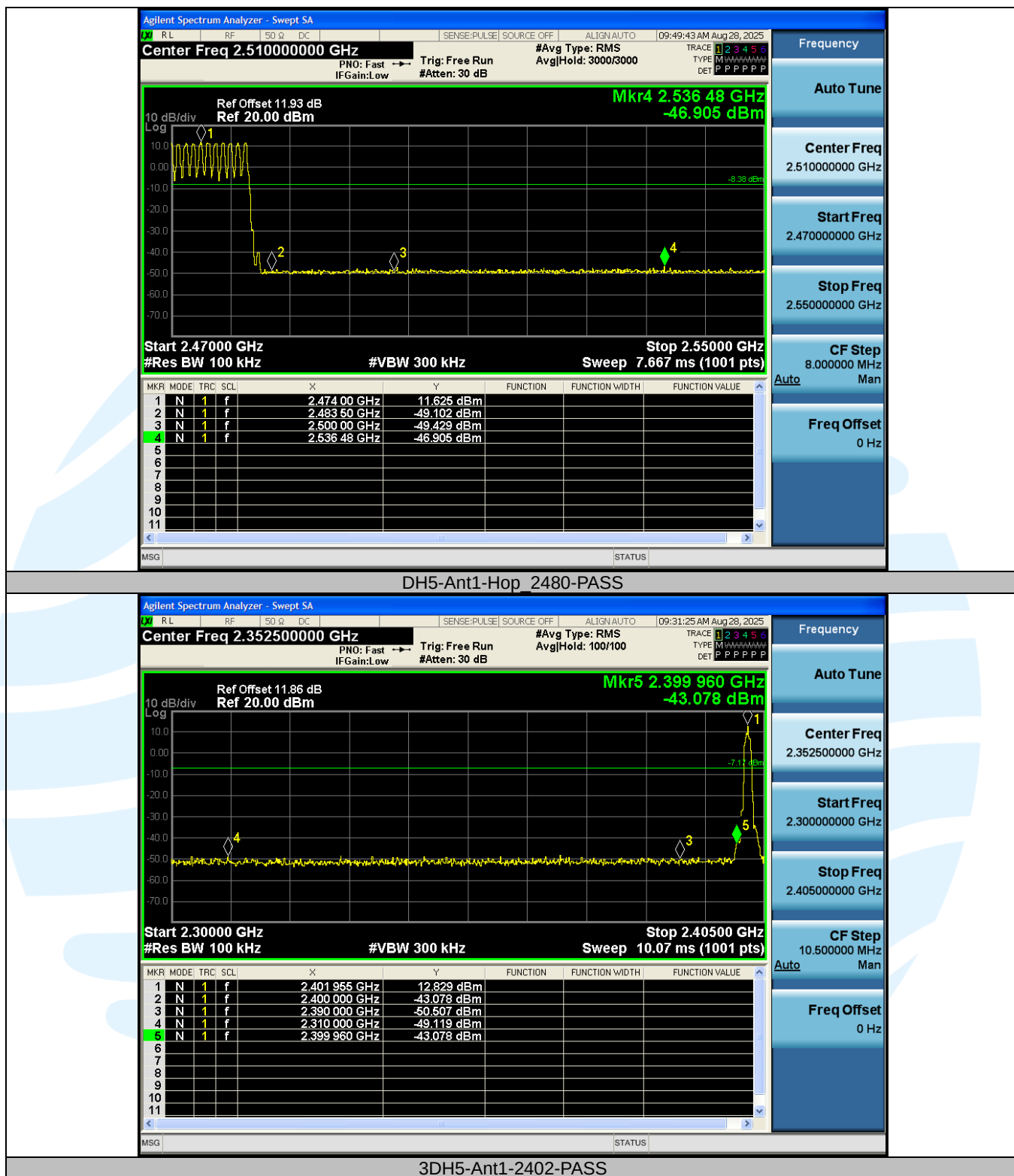
Left earbud

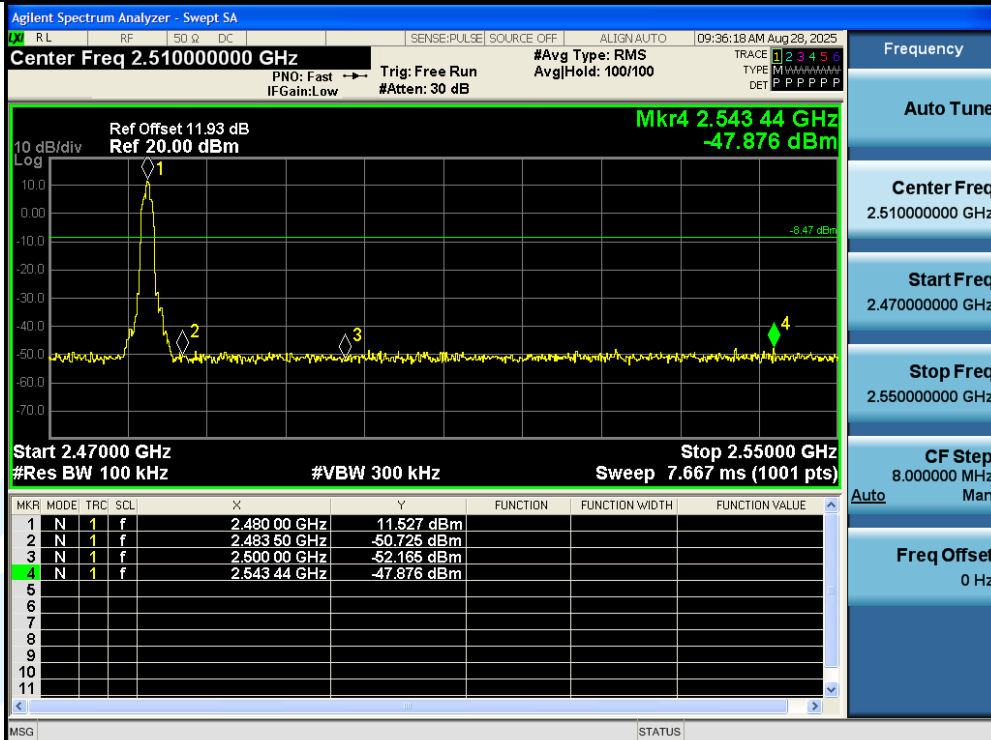
Test Mode	Antenna	Ch Name	Frequency [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	12.79	-46.91	≤-7.21	PASS
DH5	Ant1	High	2480	11.56	-47.49	≤-8.44	PASS
DH5	Ant1	Low	Hop_2402	12.63	-46.85	≤-7.37	PASS
DH5	Ant1	High	Hop_2480	11.63	-46.91	≤-8.38	PASS
3DH5	Ant1	Low	2402	12.83	-43.08	≤-7.17	PASS
3DH5	Ant1	High	2480	11.53	-47.88	≤-8.47	PASS
3DH5	Ant1	Low	Hop_2402	12.76	-44.77	≤-7.24	PASS
3DH5	Ant1	High	Hop_2480	11.86	-47.19	≤-8.14	PASS

Test Graphs

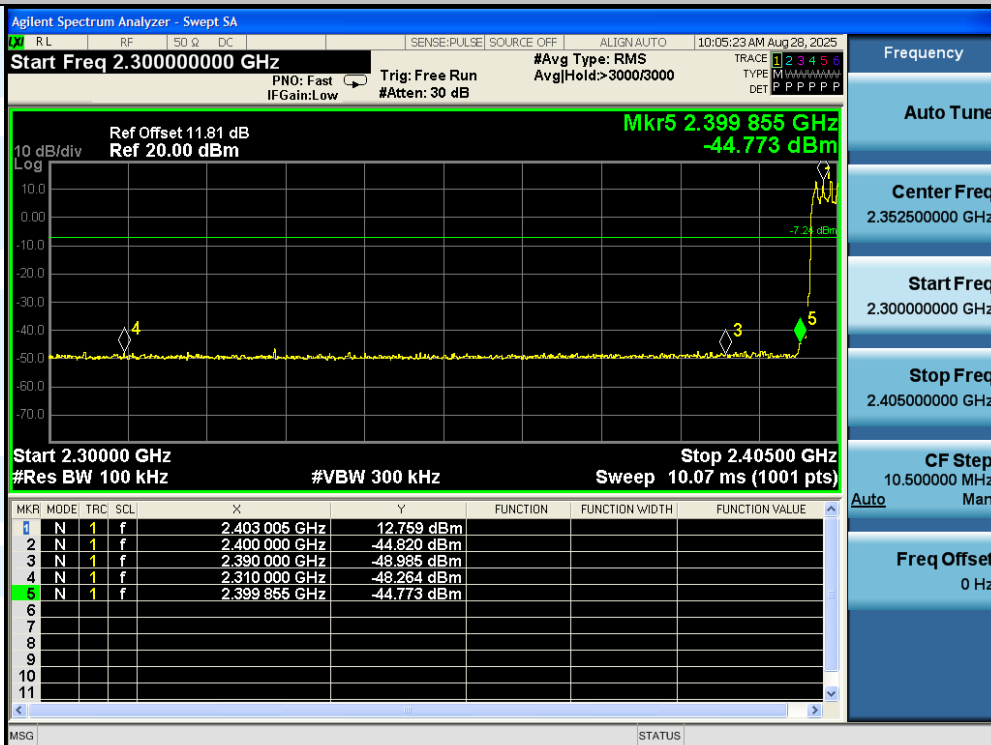




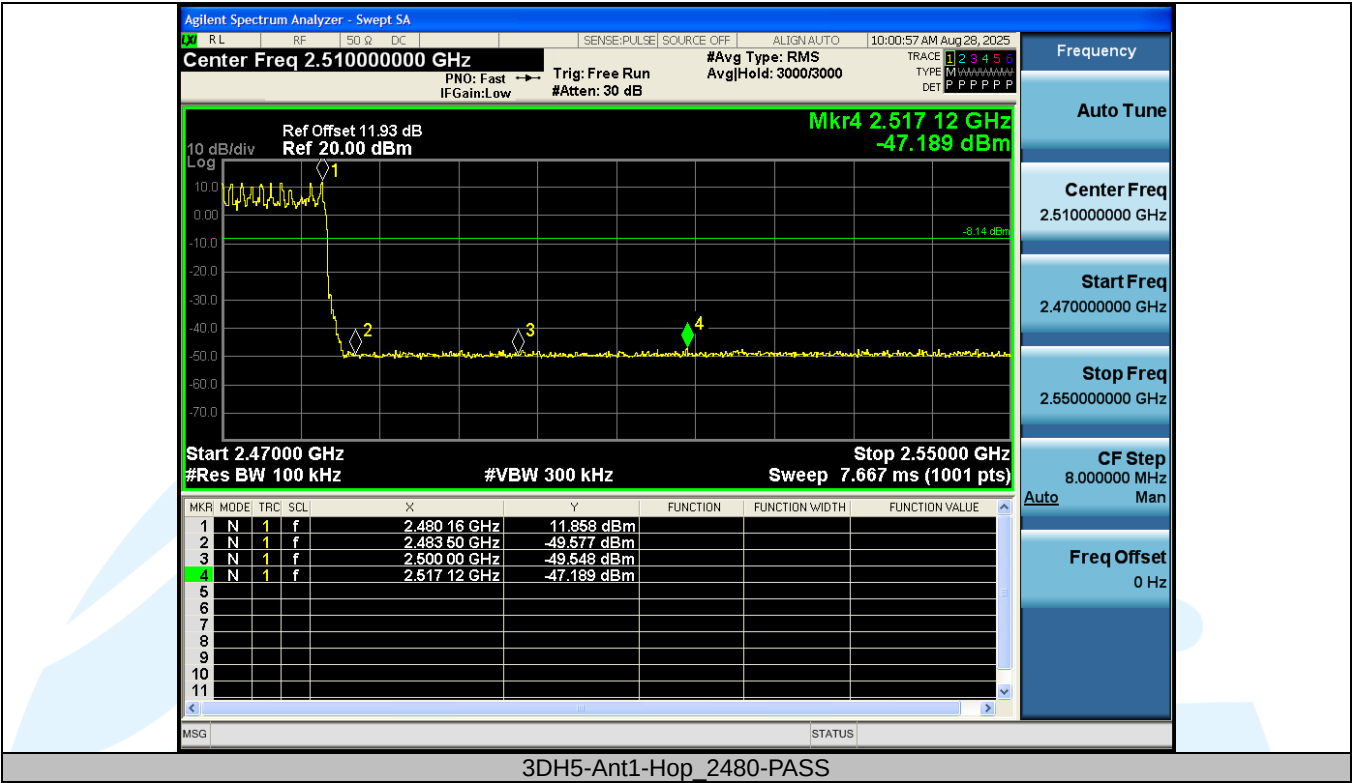




3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS

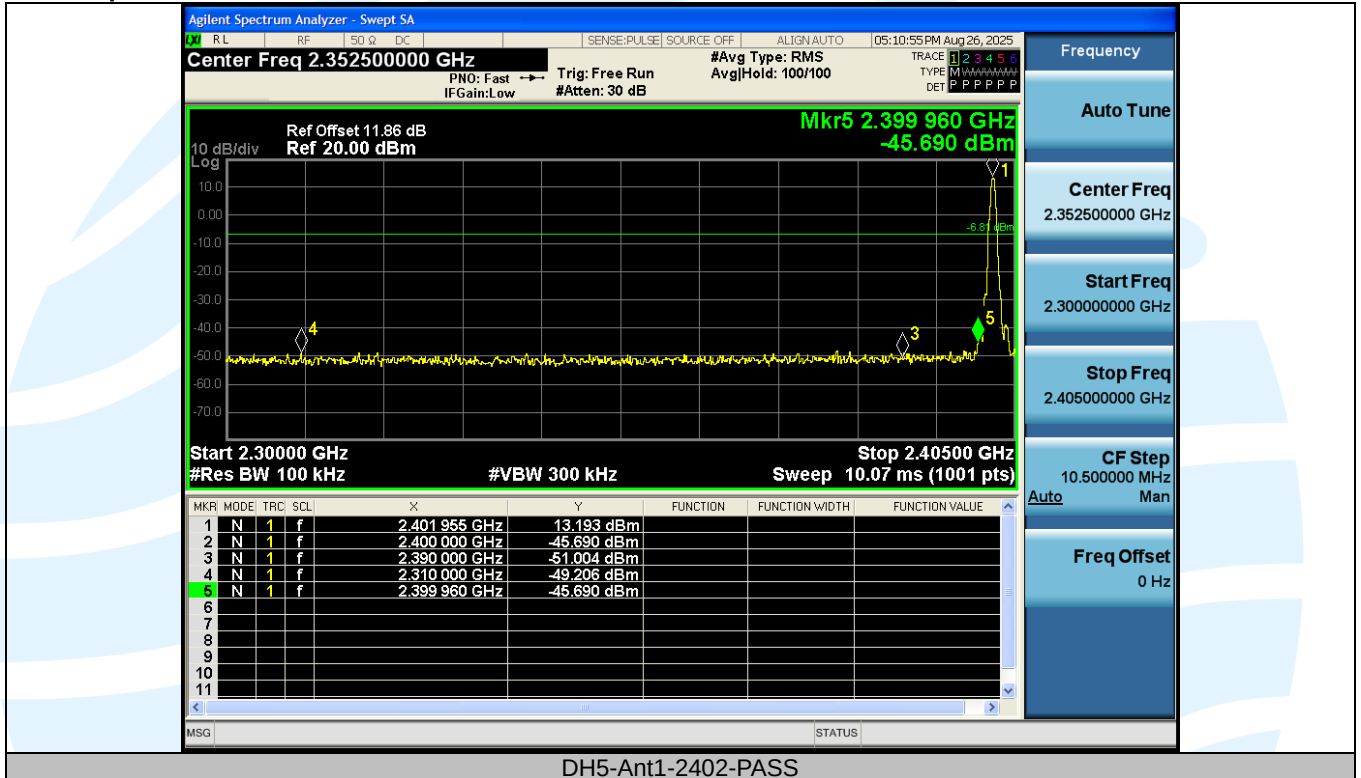


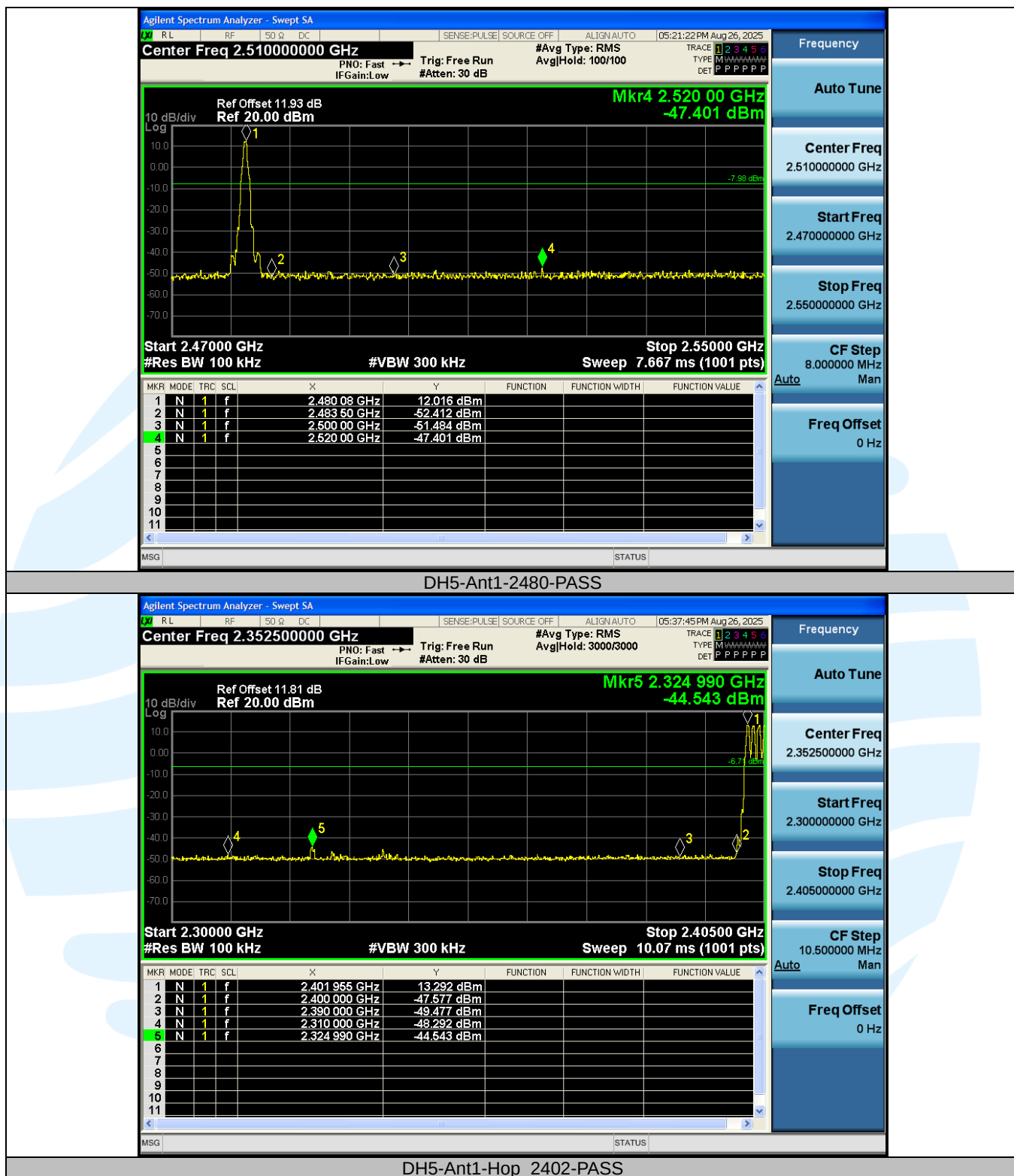
3DH5-Ant1-Hop_2480-PASS

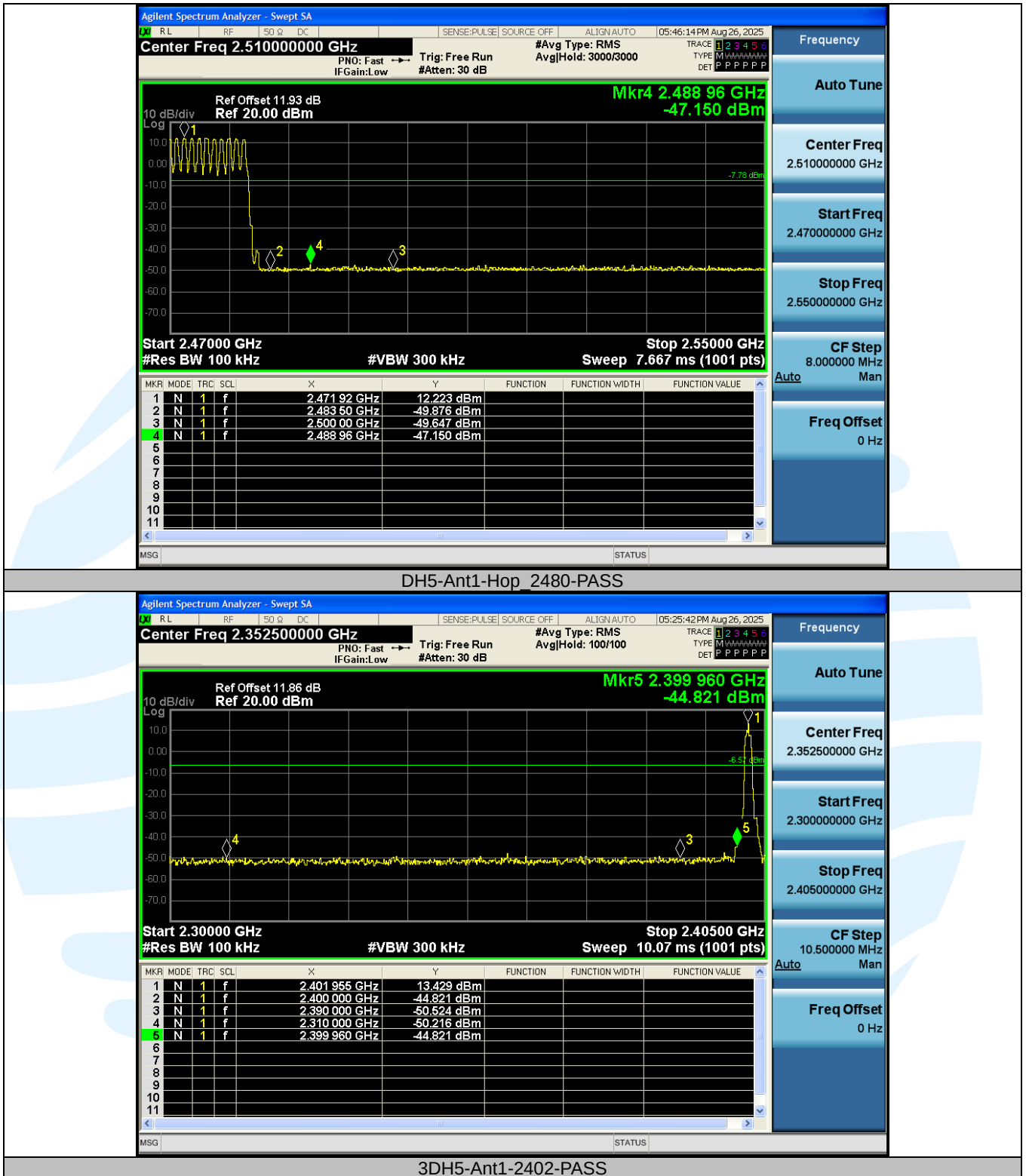
Right earbud

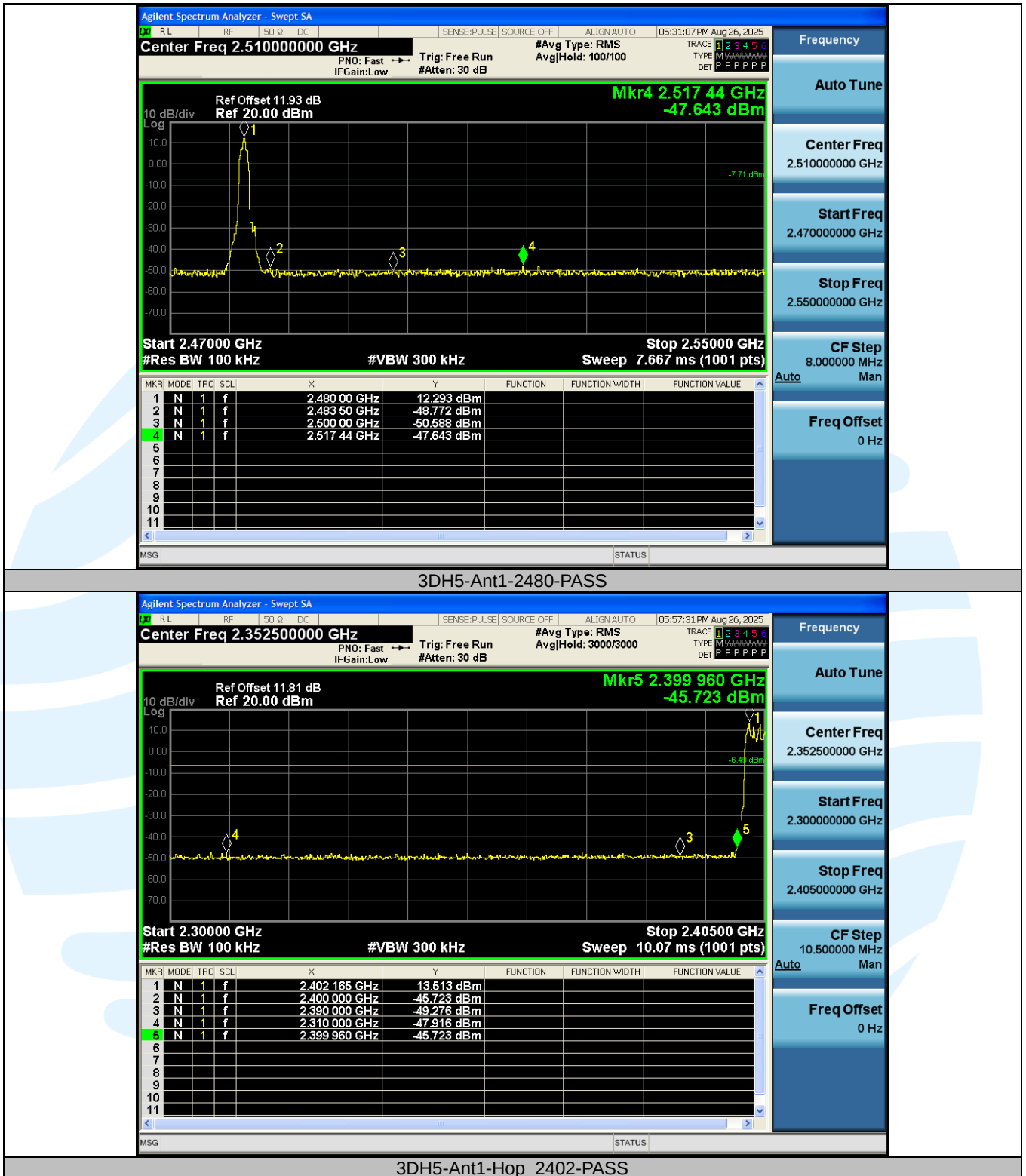
Test Mode	Antenna	Ch Name	Frequency [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	13.19	-45.69	≤-6.81	PASS
DH5	Ant1	High	2480	12.02	-47.4	≤-7.98	PASS
DH5	Ant1	Low	Hop 2402	13.29	-44.54	≤-6.71	PASS
DH5	Ant1	High	Hop 2480	12.22	-47.15	≤-7.78	PASS
3DH5	Ant1	Low	2402	13.43	-44.82	≤-6.57	PASS
3DH5	Ant1	High	2480	12.29	-47.64	≤-7.71	PASS
3DH5	Ant1	Low	Hop 2402	13.51	-45.72	≤-6.49	PASS
3DH5	Ant1	High	Hop 2480	12.05	-47.11	≤-7.95	PASS

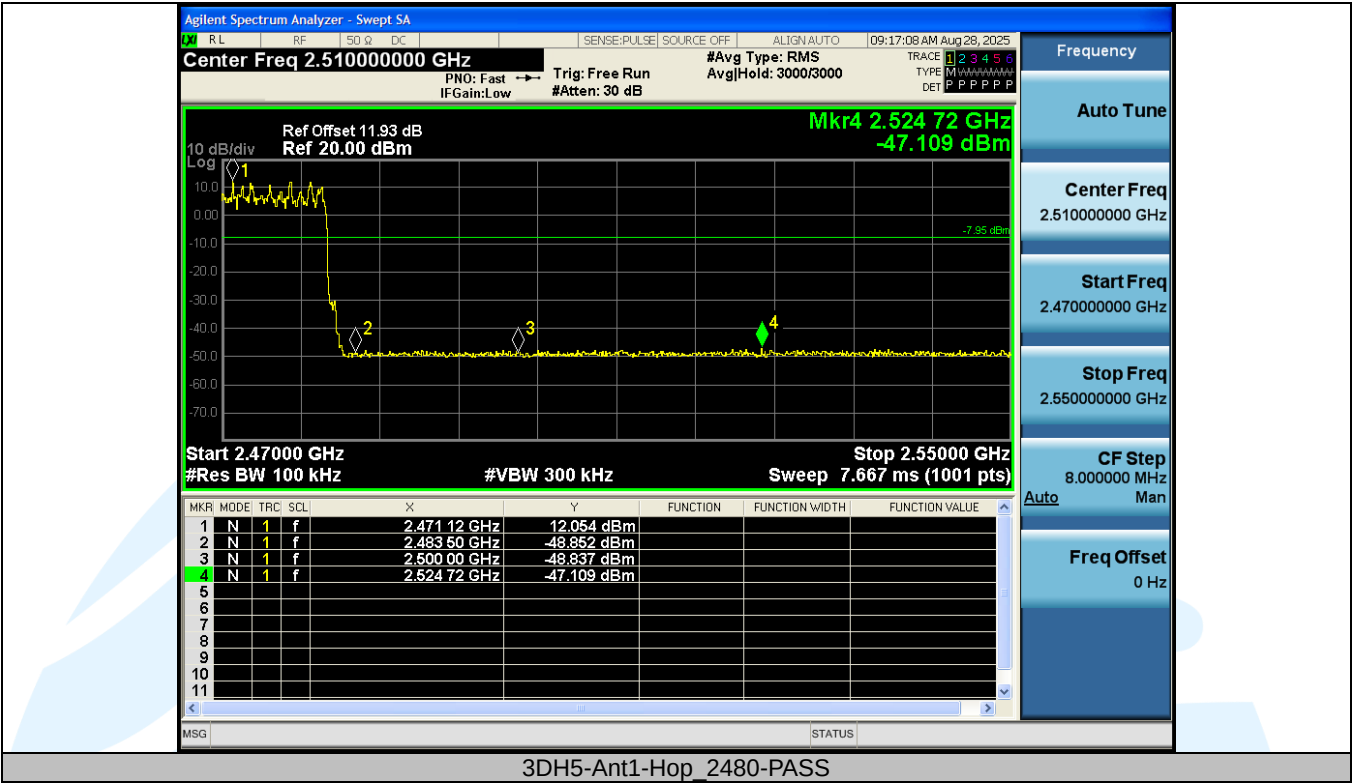
Test Graphs









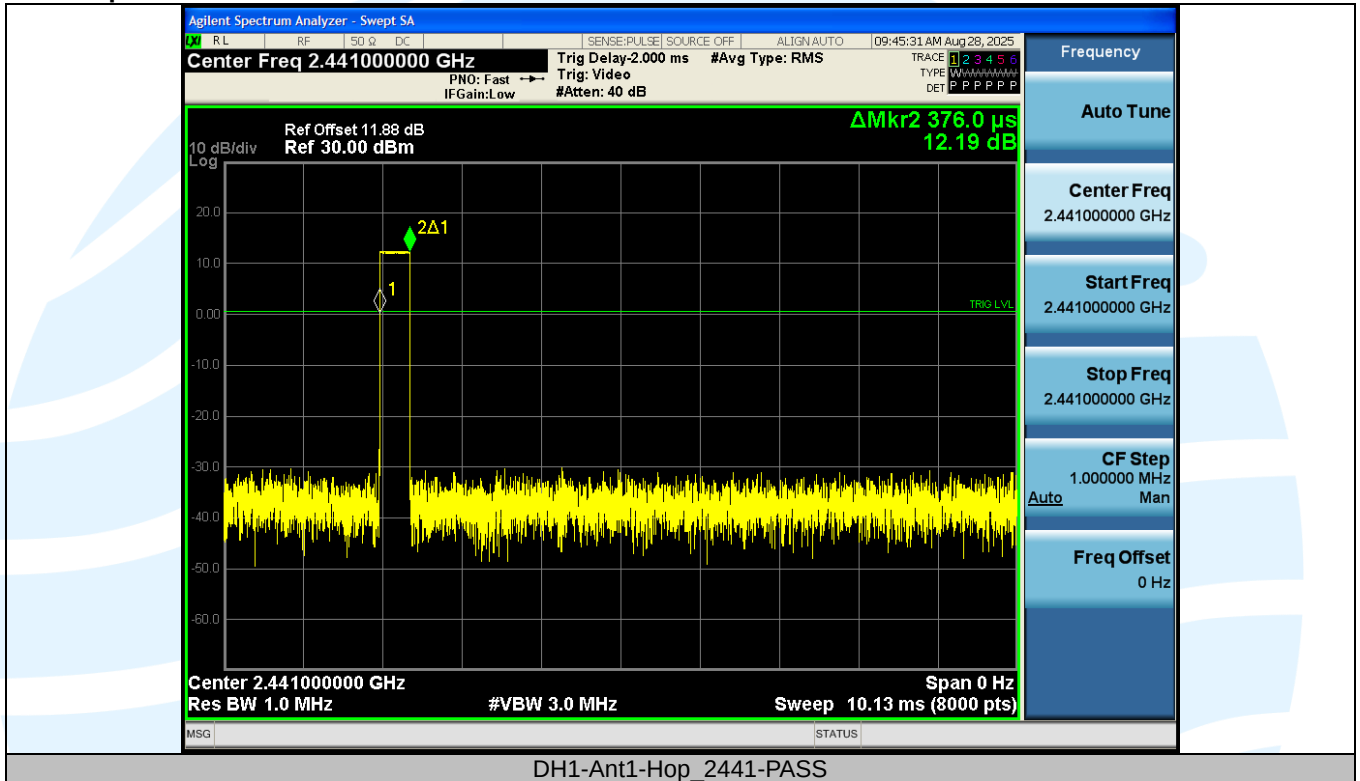


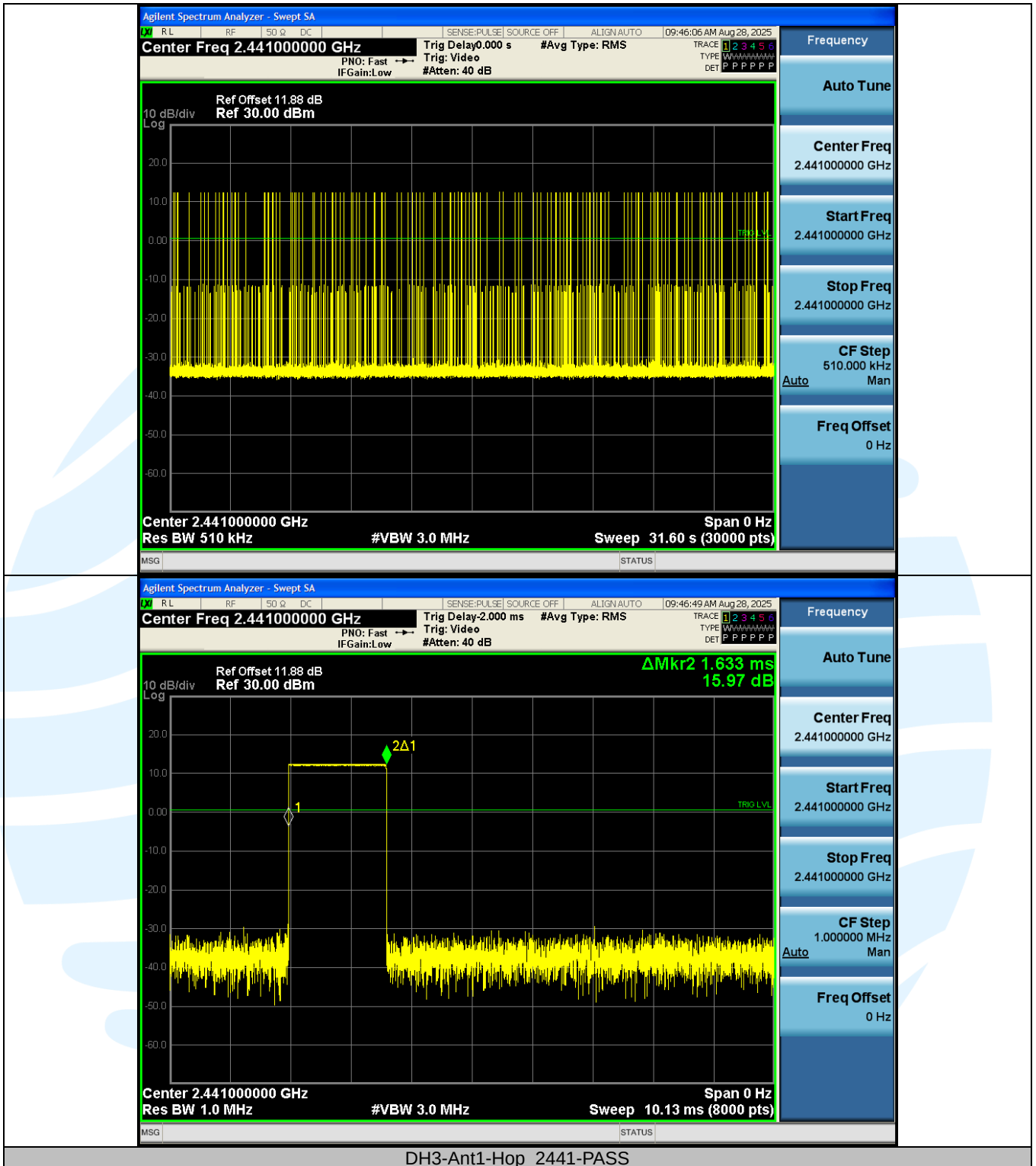
A.7 DWELL TIME

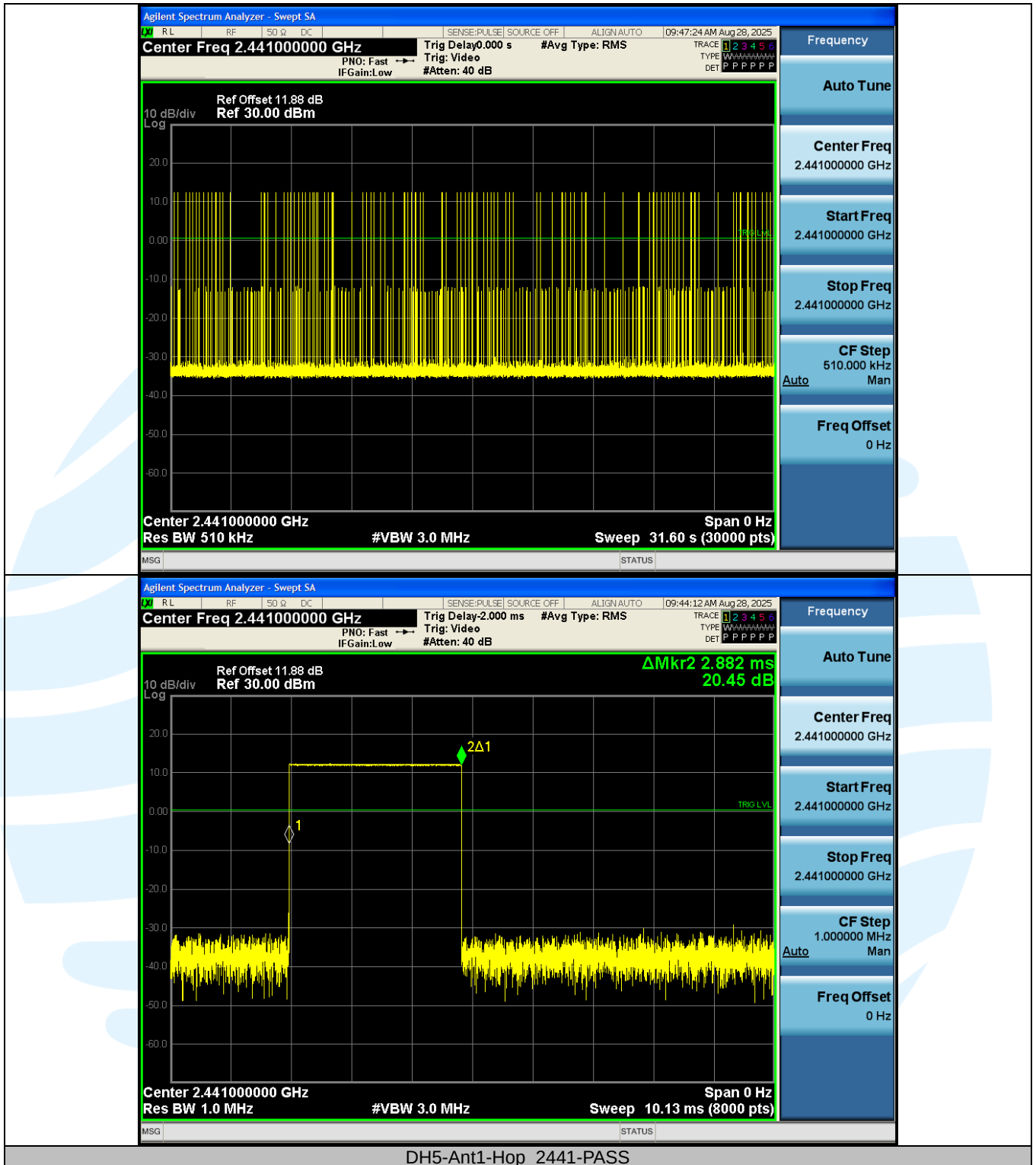
Left earbud

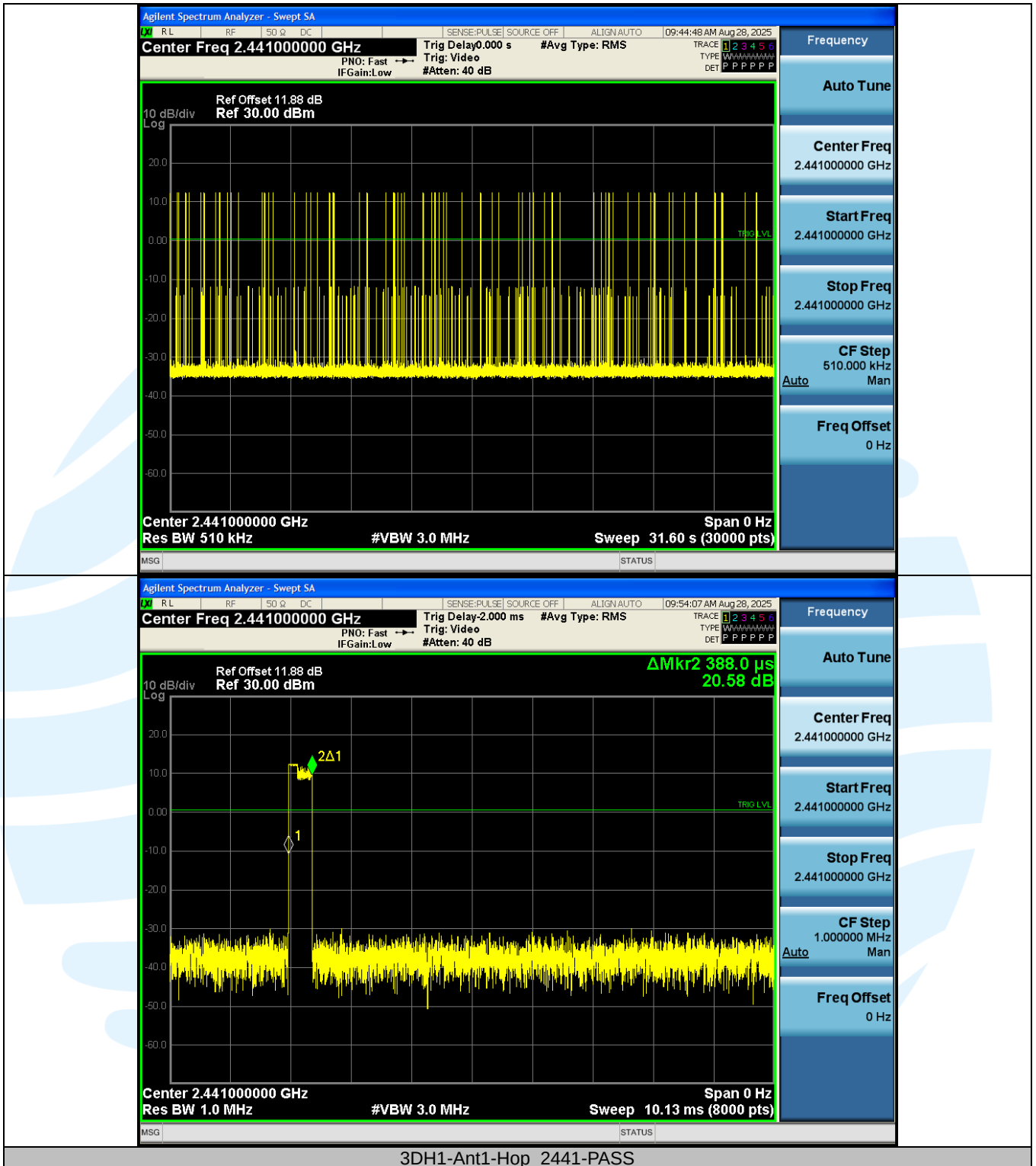
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop 2441	0.376	147	0.055	≤0.4	PASS
DH3	Ant1	Hop 2441	1.633	107	0.175	≤0.4	PASS
DH5	Ant1	Hop 2441	2.882	72	0.208	≤0.4	PASS
3DH1	Ant1	Hop 2441	0.388	161	0.062	≤0.4	PASS
3DH3	Ant1	Hop 2441	1.637	105	0.172	≤0.4	PASS
3DH5	Ant1	Hop 2441	2.887	78	0.225	≤0.4	PASS

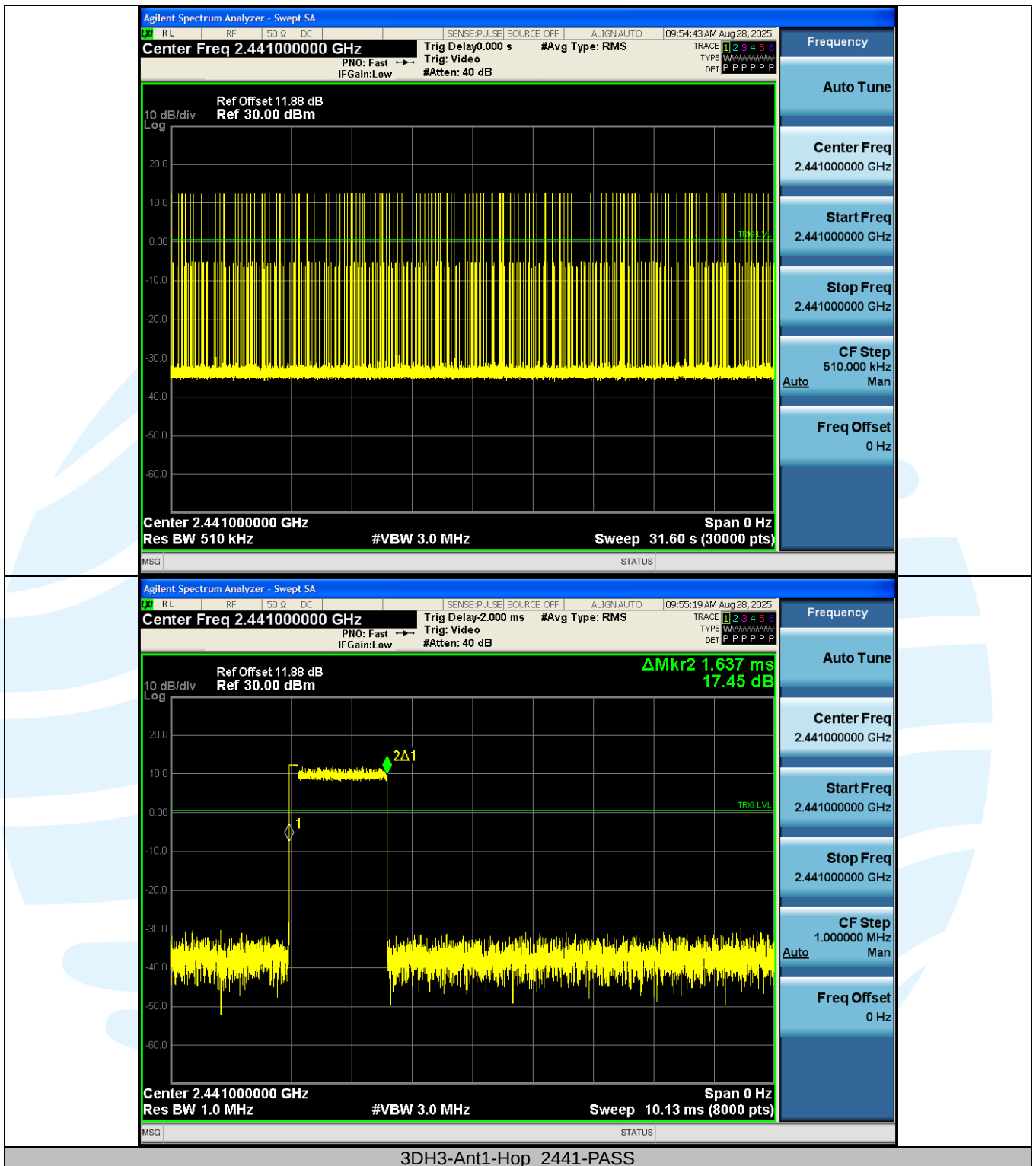
Test Graphs

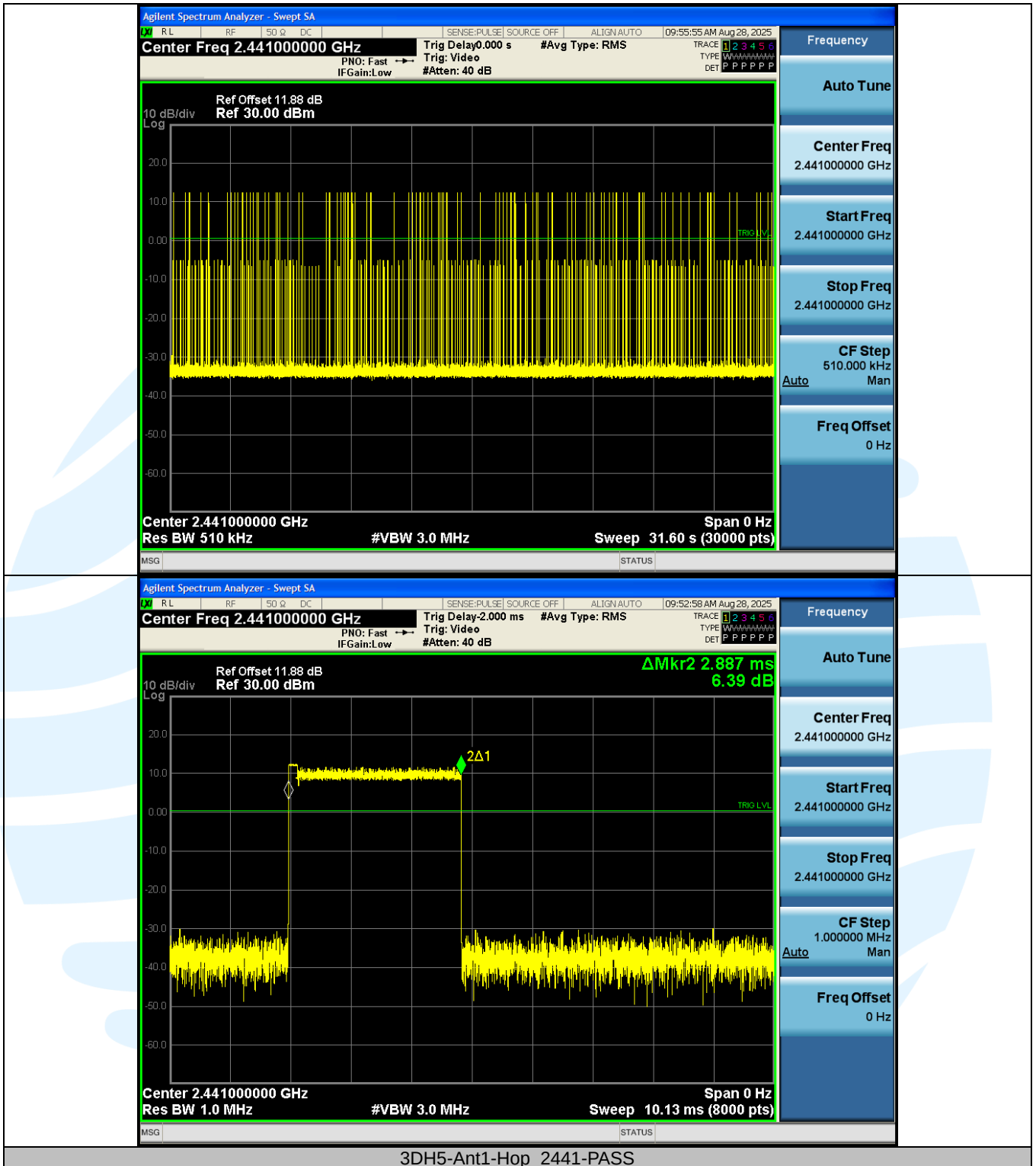


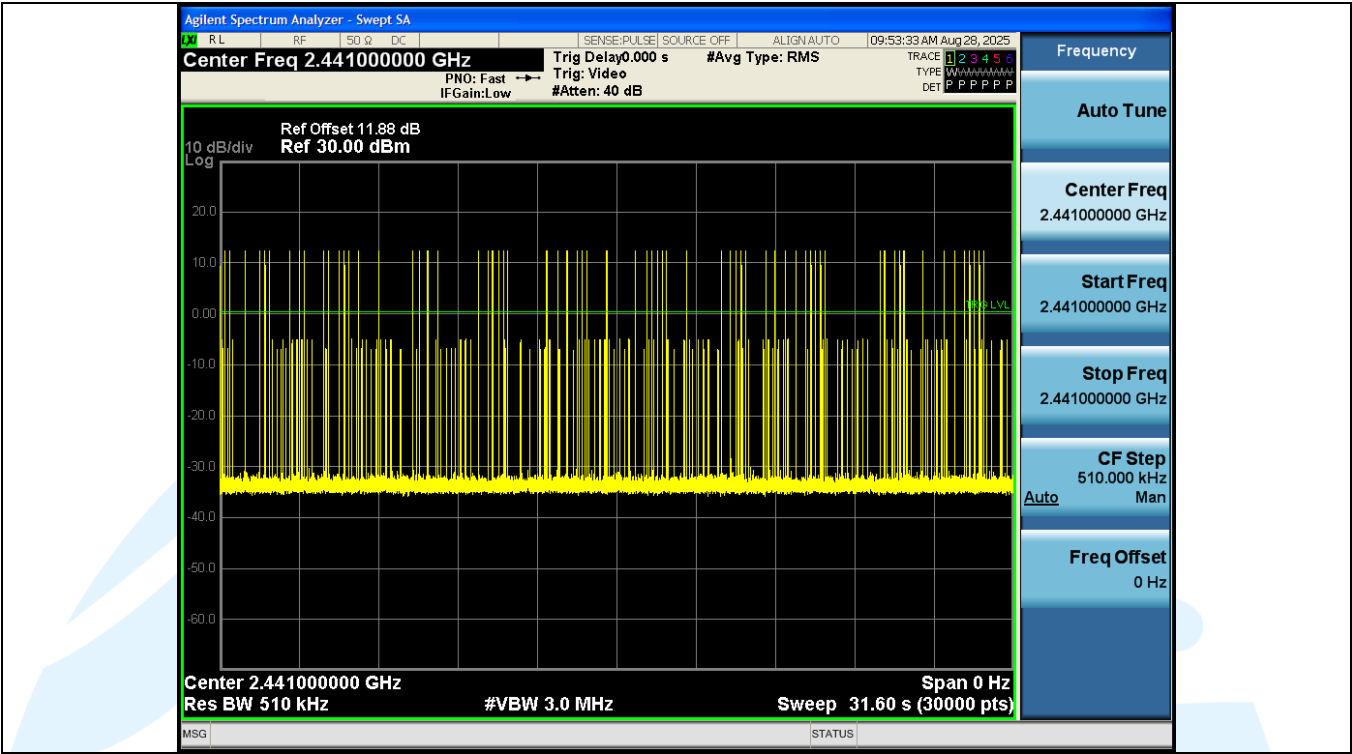








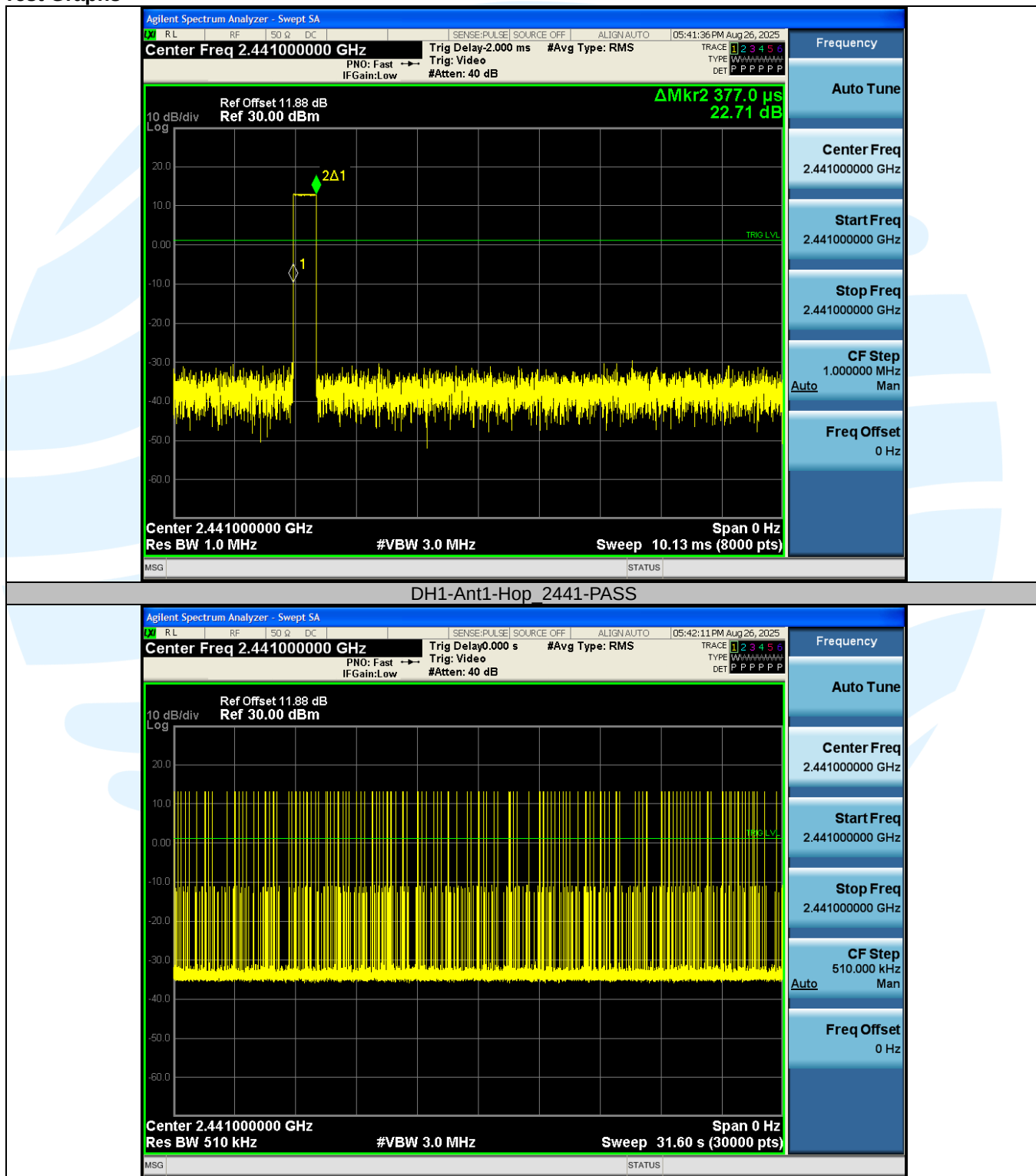




Right earbud

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total IHops [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop 2441	0.377	154	0.058	≤0.4	PASS
DH3	Ant1	Hop 2441	1.633	101	0.165	≤0.4	PASS
DH5	Ant1	Hop 2441	2.880	71	0.204	≤0.4	PASS
3DH1	Ant1	Hop 2441	0.386	160	0.062	≤0.4	PASS
3DH3	Ant1	Hop 2441	1.638	107	0.175	≤0.4	PASS
3DH5	Ant1	Hop 2441	2.888	82	0.237	≤0.4	PASS

Test Graphs



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6th, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, China

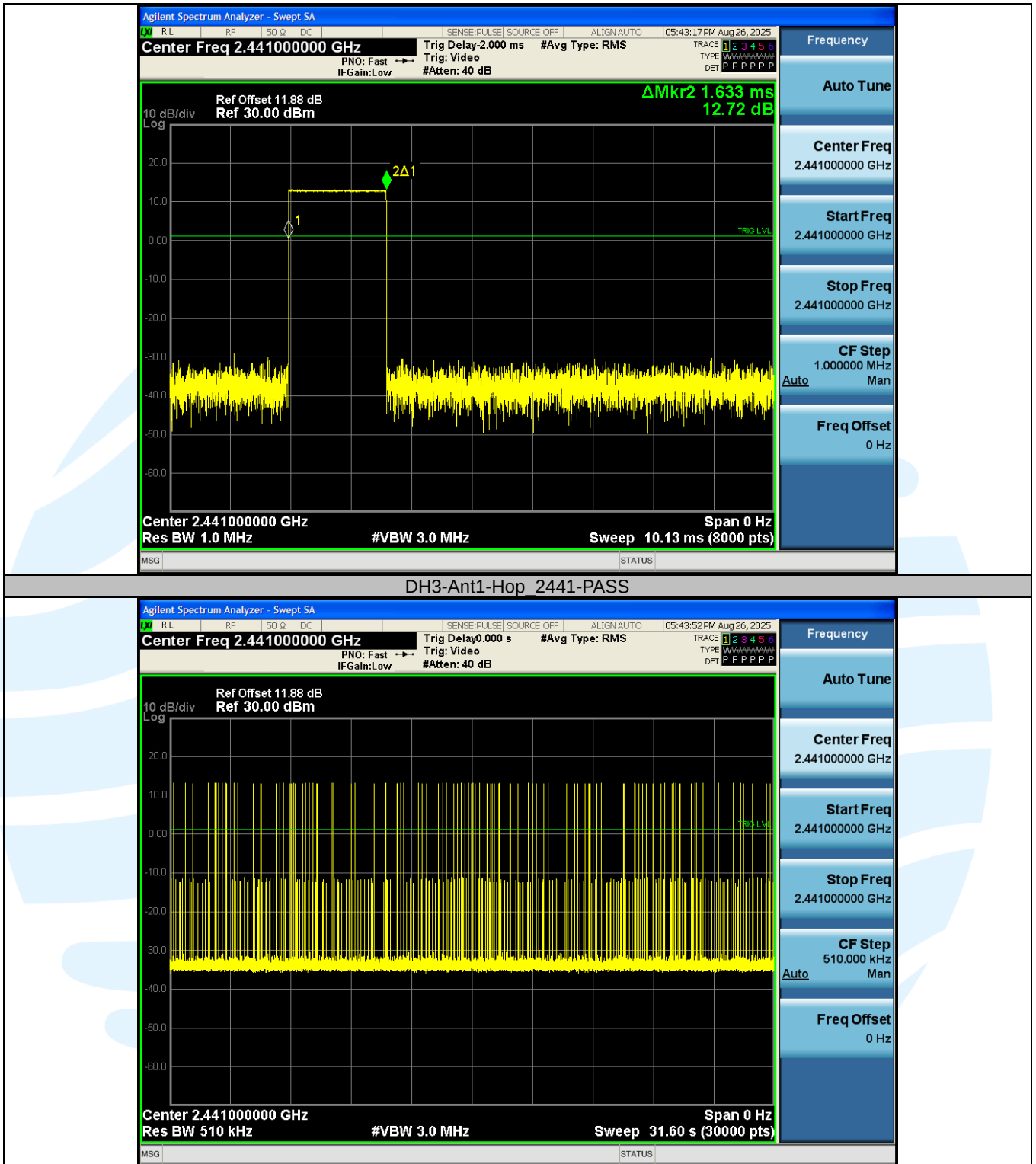
Tel: +86-755-28230888

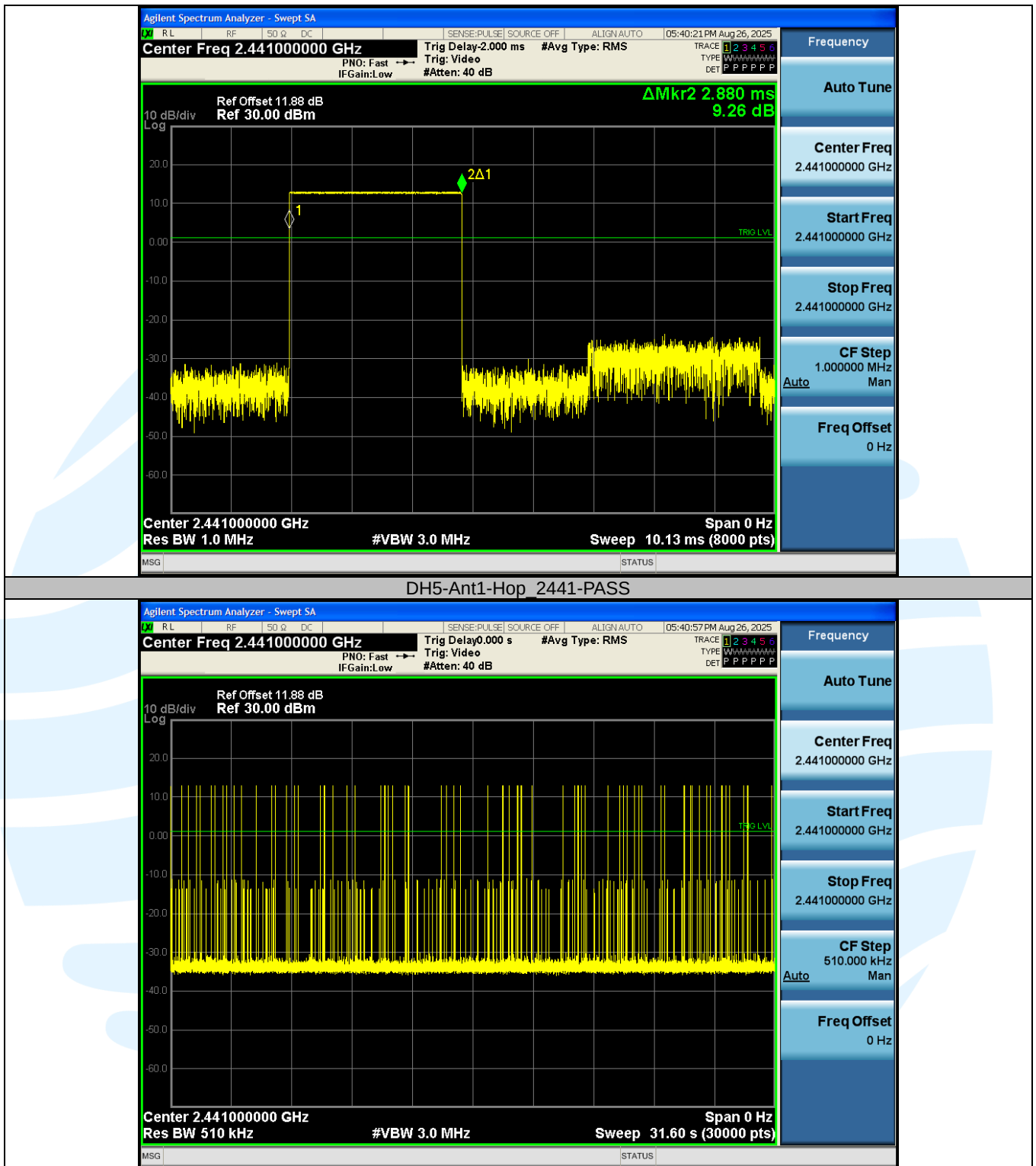
Fax: +86-755-28230886

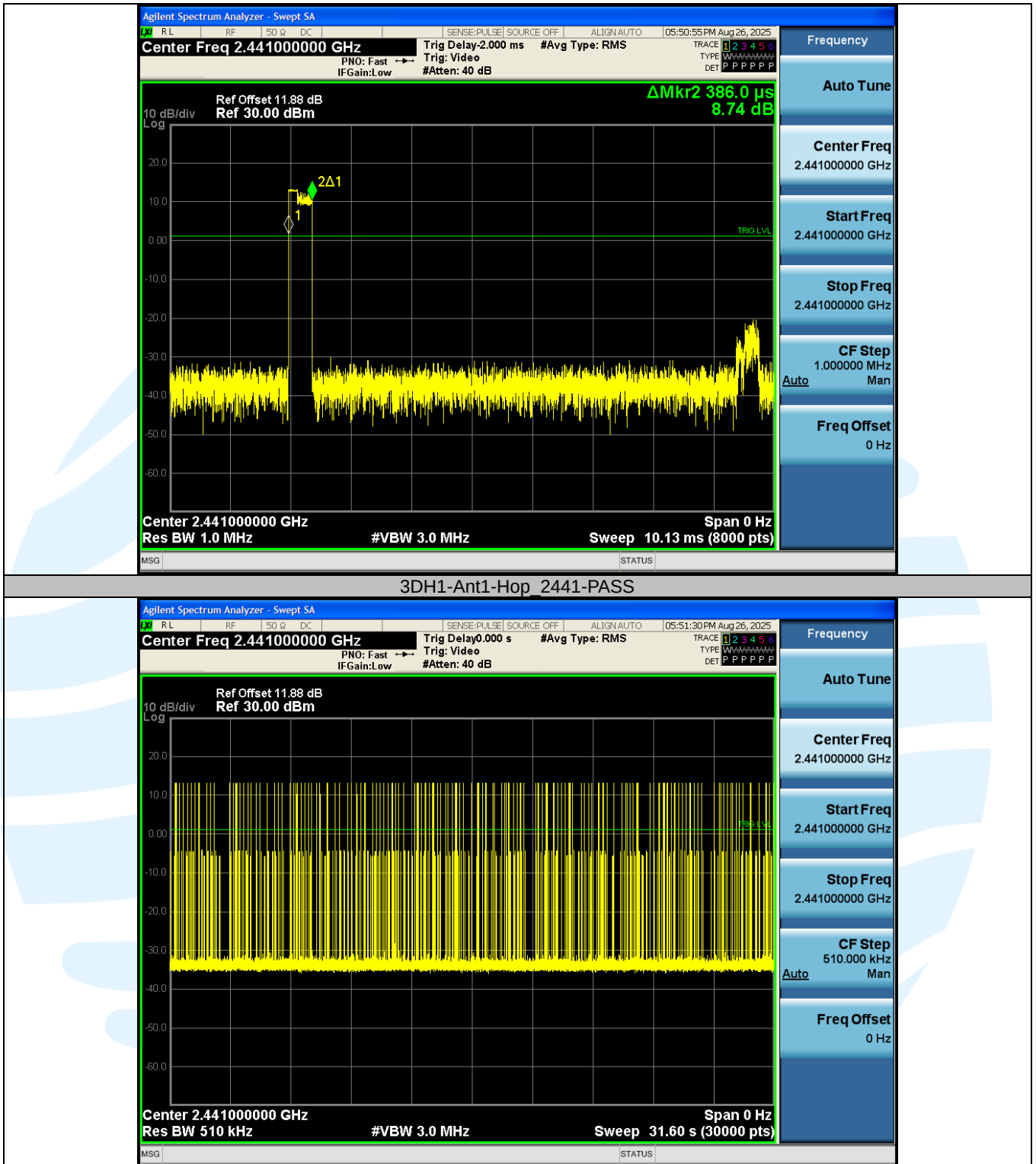
E-mail: info@uttlab.com

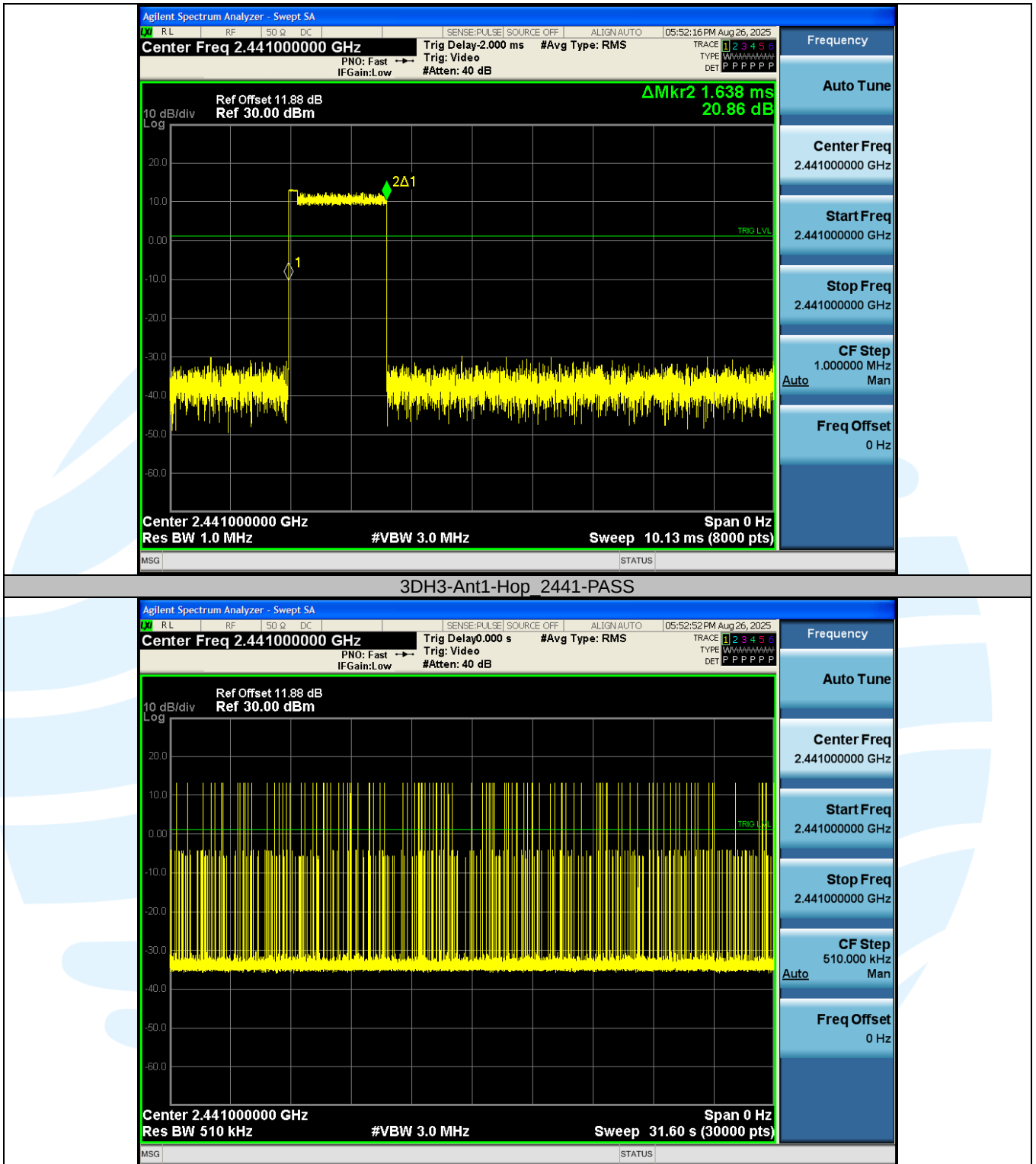
<http://www.uttlab.com>

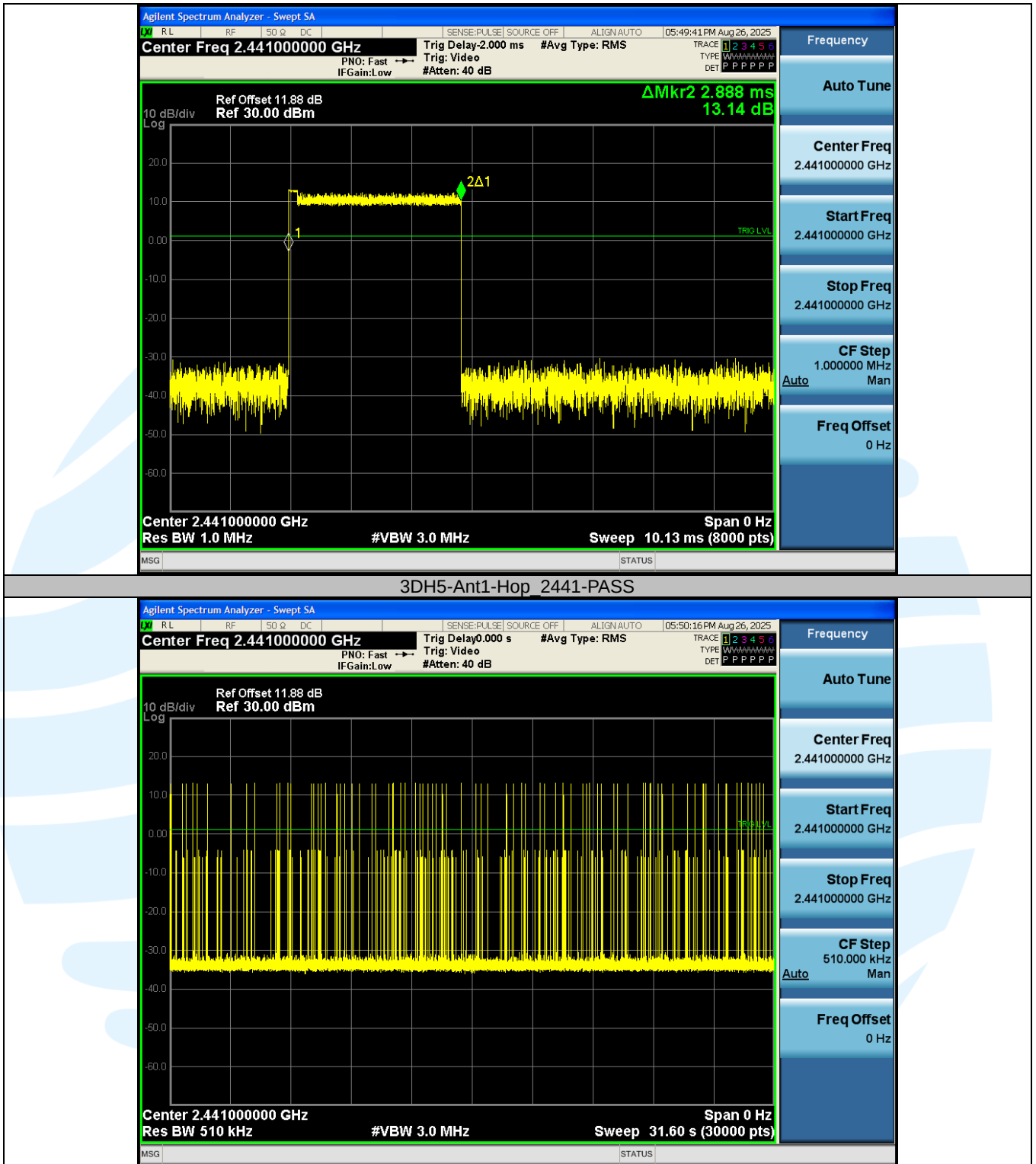
UTTR-RF-RSS247-V1.1









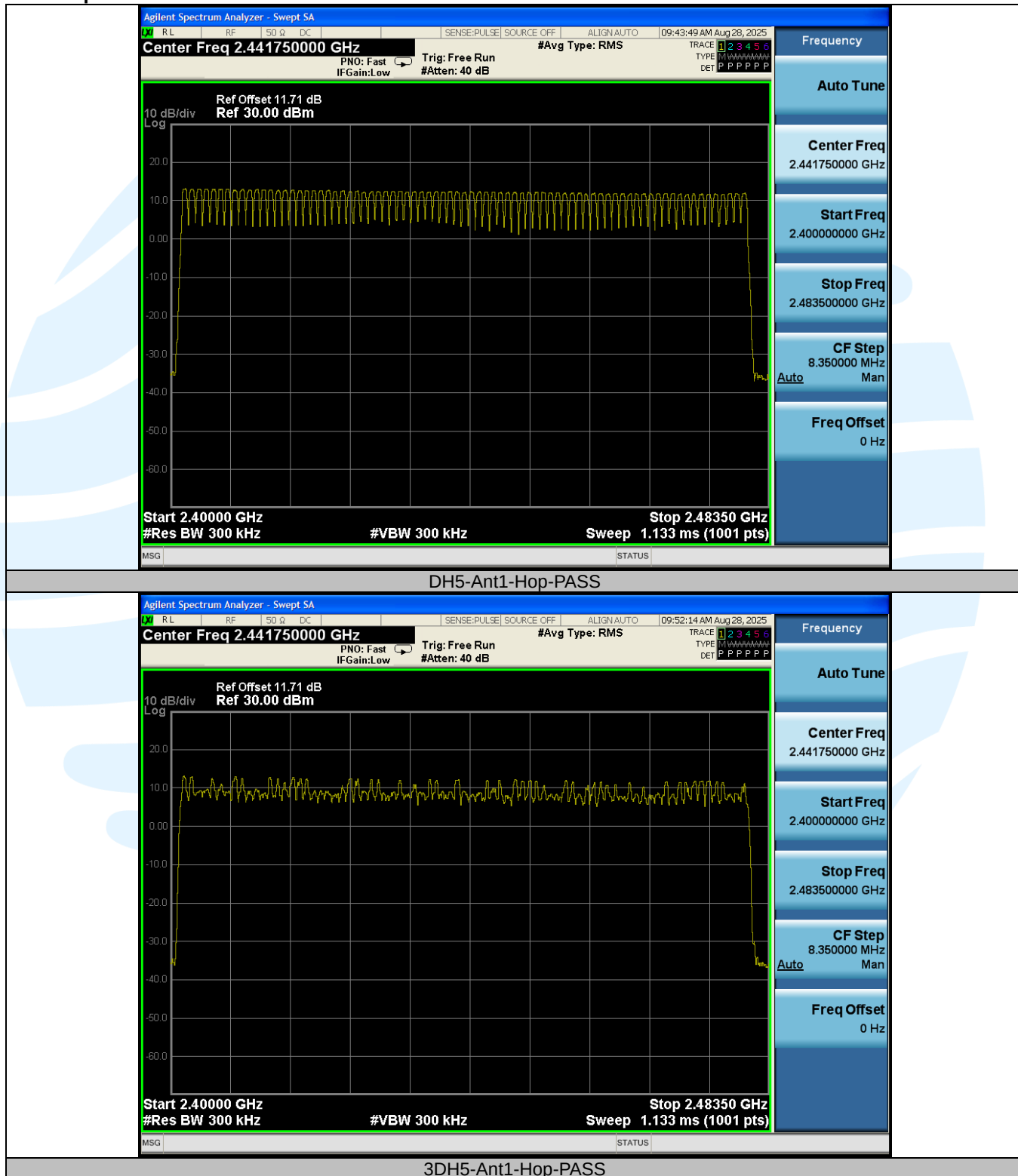


A.8 NUMBER OF HOPPING CHANNEL

Left earbud

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

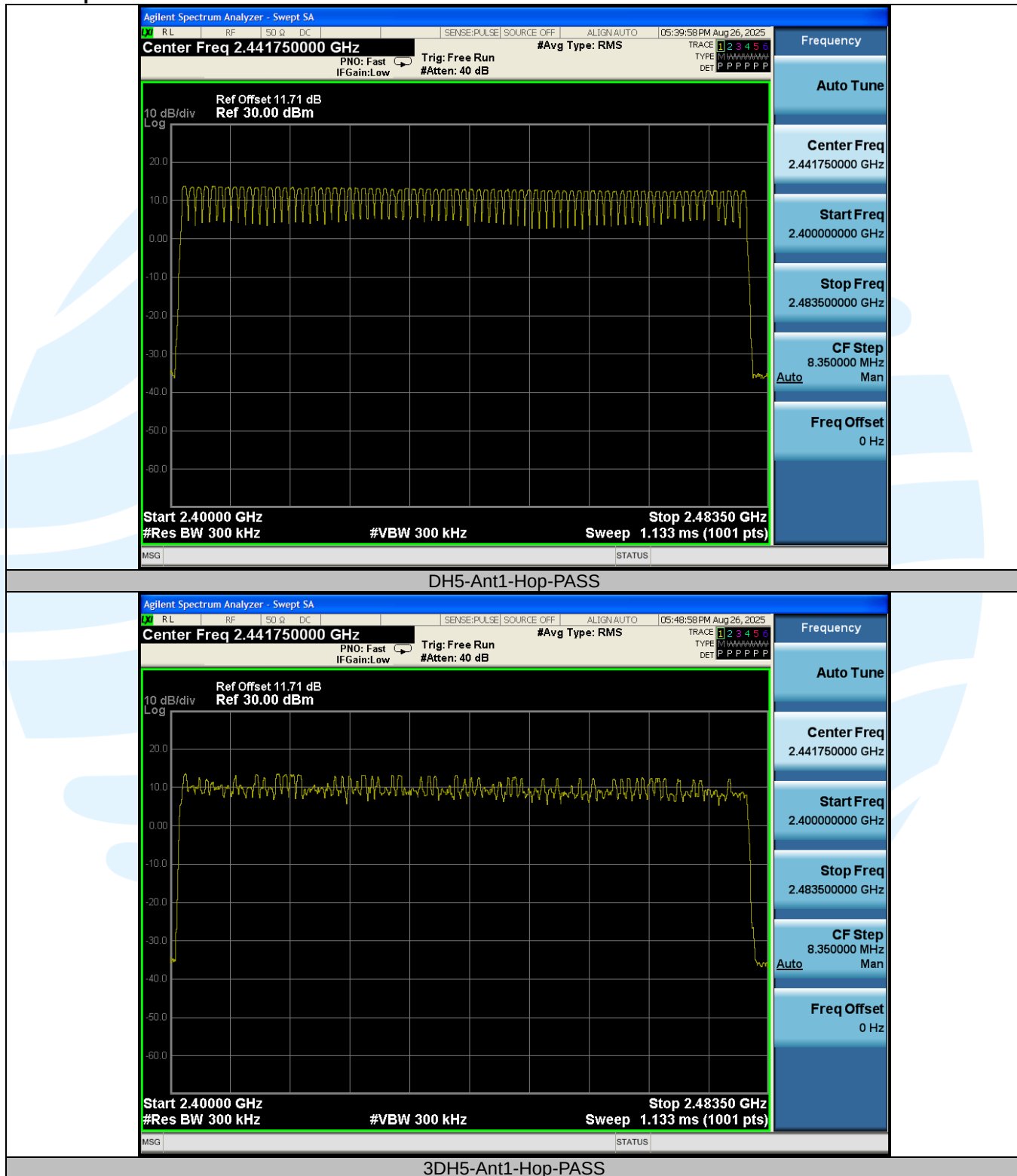
Test Graphs



Right earbud

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
