

Appendix Test Data

Report No.:	1812C50435512501	Test Sample No.:	1-2-2
Start Test Date:	2025-09-11	Finish Test Date:	2025-09-11
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.9°C	Relative Humidity:	54%
Pressure:	101kPa		

Appendix A: 20dB Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.490	2402.444	---	---
DH5	Ant1	2441	0.936	2440.490	2441.426	---	---
DH5	Ant1	2480	0.960	2479.487	2480.447	---	---
2DH5	Ant1	2402	1.329	2401.286	2402.615	---	---
2DH5	Ant1	2441	1.308	2440.295	2441.603	---	---
2DH5	Ant1	2480	1.287	2479.319	2480.606	---	---
3DH5	Ant1	2402	1.299	2401.316	2402.615	---	---
3DH5	Ant1	2441	1.293	2440.316	2441.609	---	---
3DH5	Ant1	2480	1.305	2479.304	2480.609	---	---

Test Graphs



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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86009	2401.5250	2402.3850	---	---
DH5	Ant1	2441	0.85522	2440.5238	2441.3790	---	---
DH5	Ant1	2480	0.87278	2479.5183	2480.3911	---	---
2DH5	Ant1	2402	1.1762	2401.3666	2402.5428	---	---
2DH5	Ant1	2441	1.1637	2440.3720	2441.5357	---	---
2DH5	Ant1	2480	1.1784	2479.3643	2480.5427	---	---
3DH5	Ant1	2402	1.1775	2401.3695	2402.5470	---	---
3DH5	Ant1	2441	1.1812	2440.3684	2441.5496	---	---
3DH5	Ant1	2480	1.1911	2479.3561	2480.5472	---	---

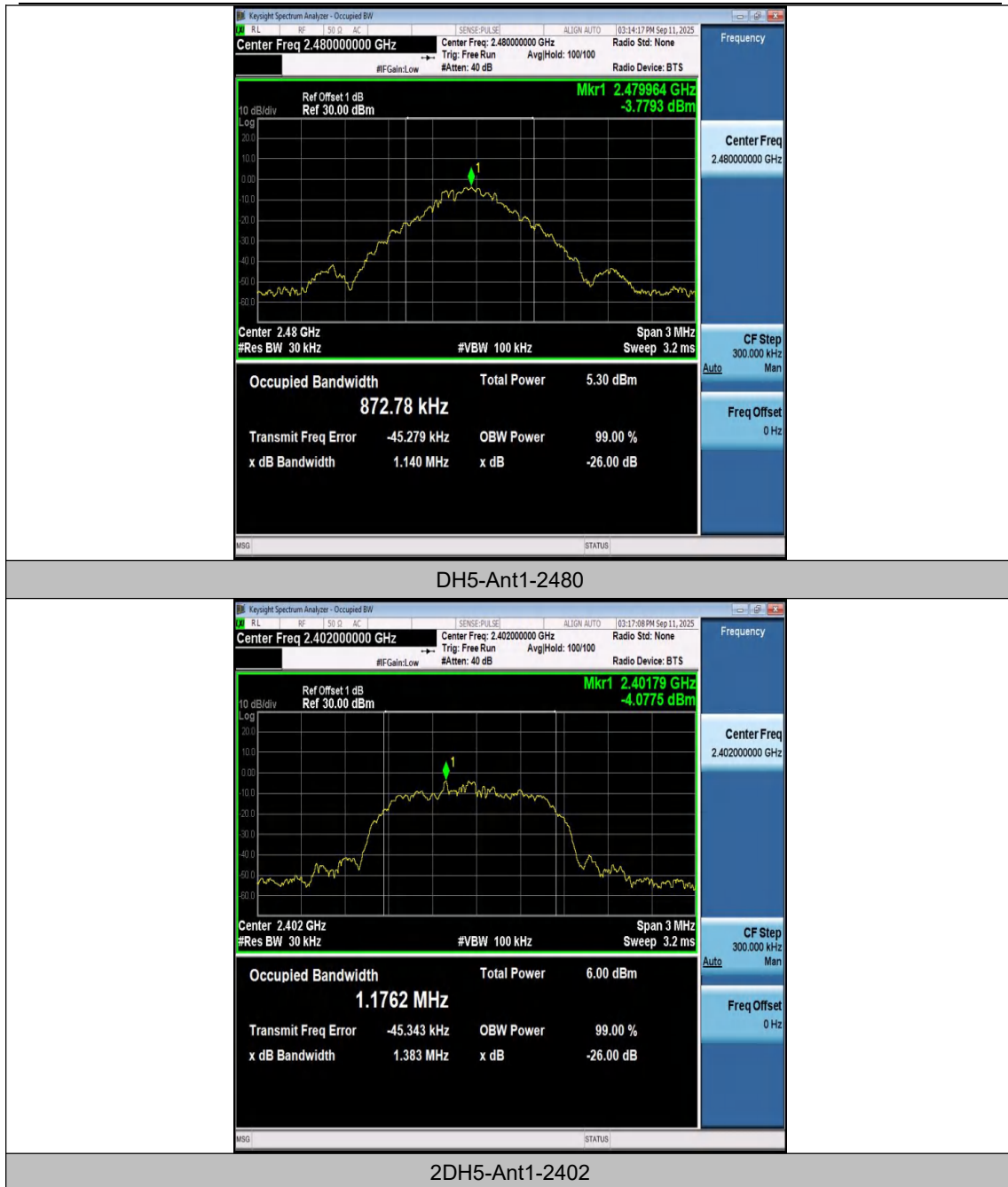
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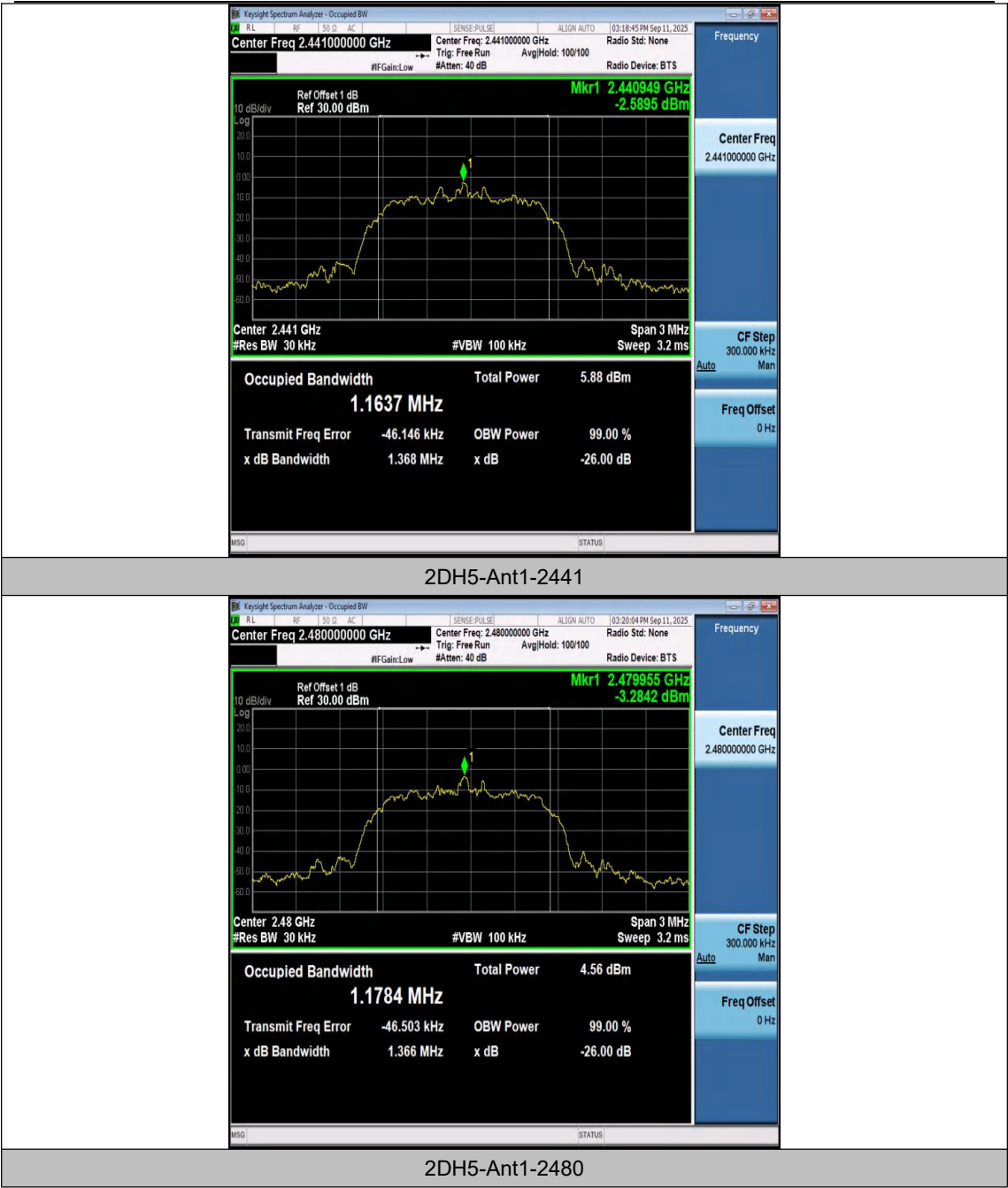
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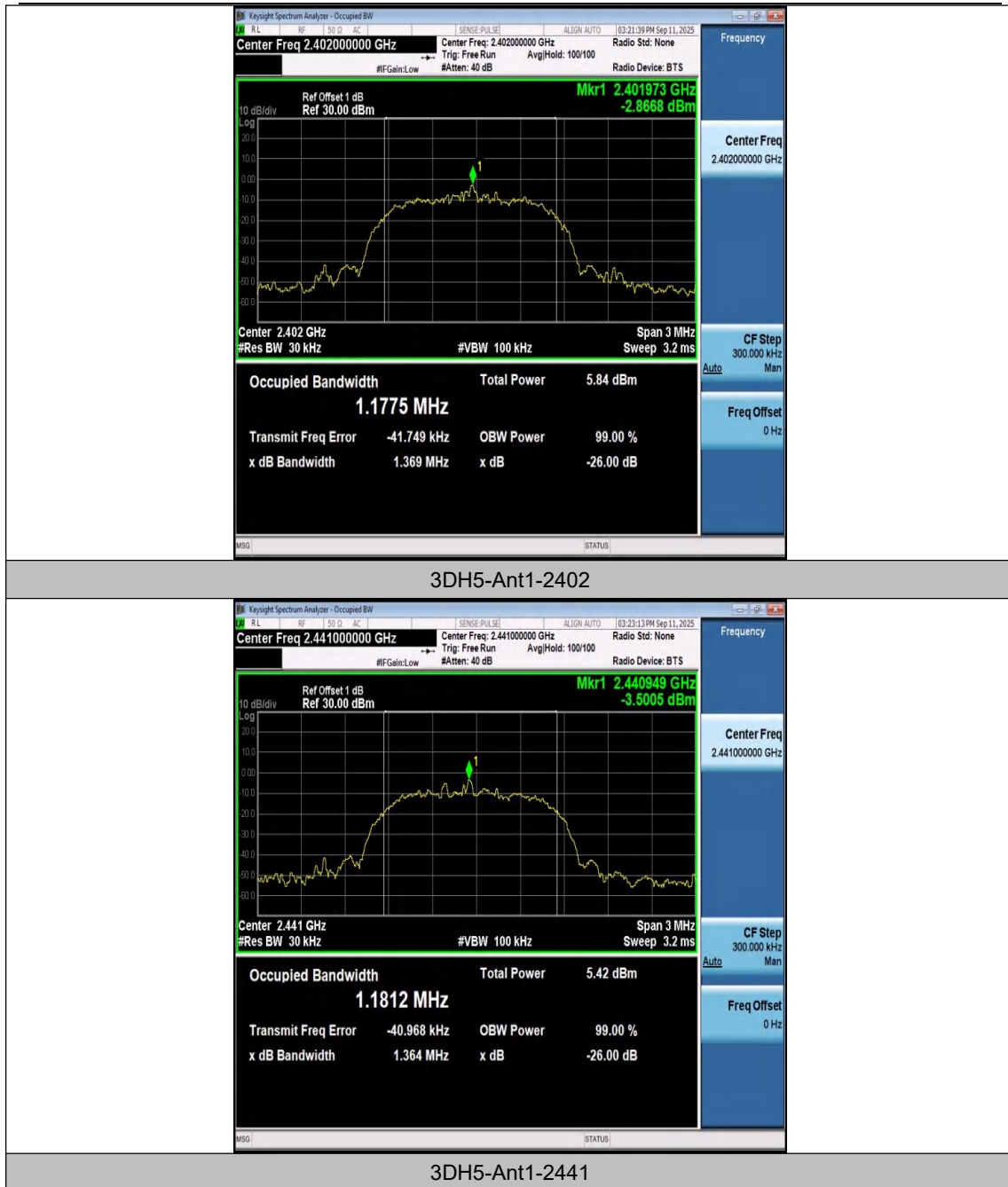


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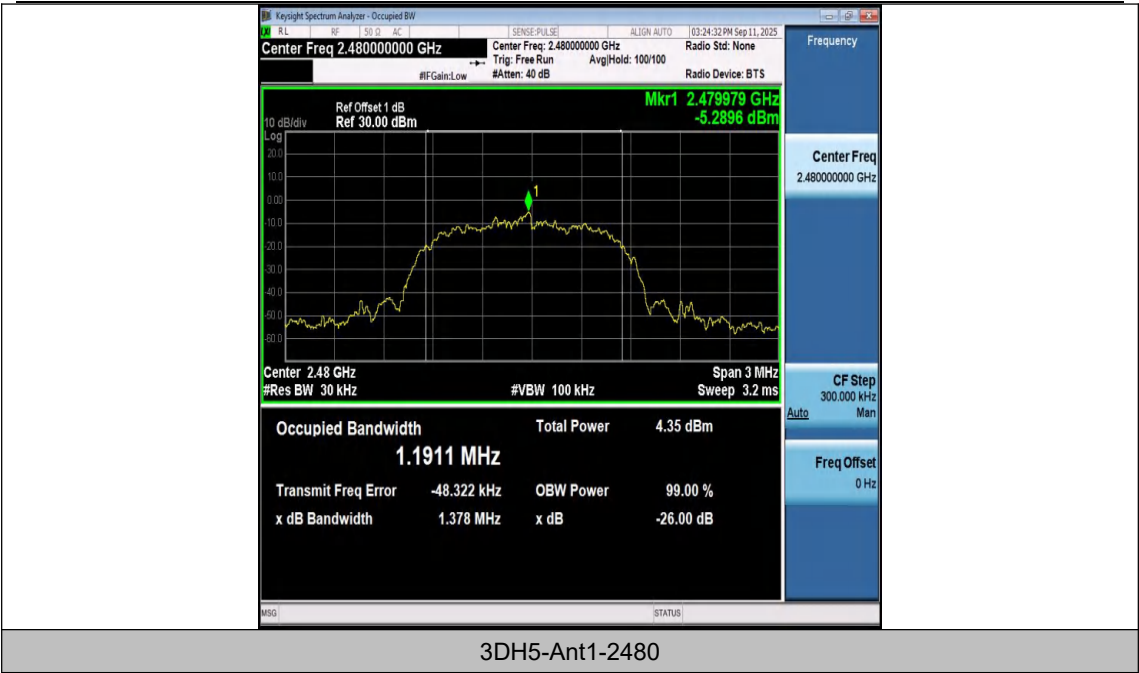




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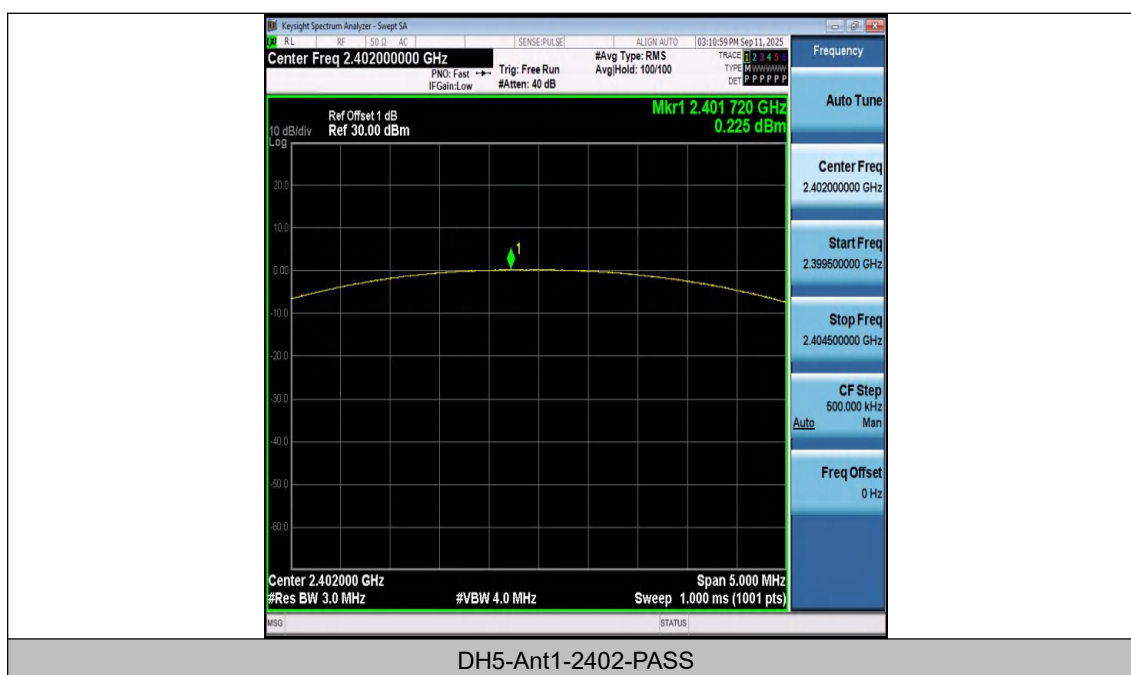
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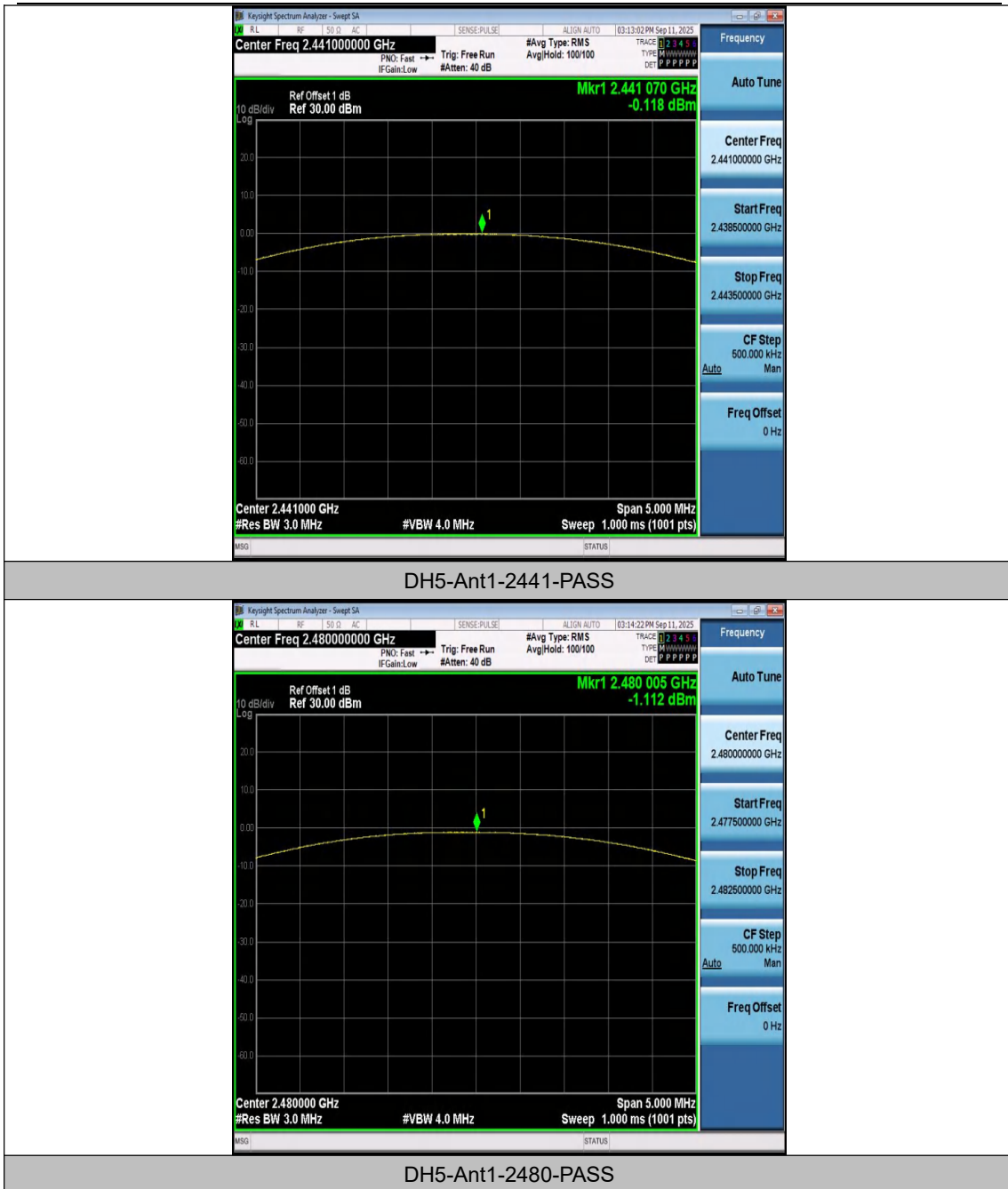
Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.23	≤20.97	PASS
DH5	Ant1	2441	-0.12	≤20.97	PASS
DH5	Ant1	2480	-1.11	≤20.97	PASS
2DH5	Ant1	2402	1.00	≤20.97	PASS
2DH5	Ant1	2441	0.58	≤20.97	PASS
2DH5	Ant1	2480	-0.36	≤20.97	PASS
3DH5	Ant1	2402	1.57	≤20.97	PASS
3DH5	Ant1	2441	1.14	≤20.97	PASS
3DH5	Ant1	2480	0.11	≤20.97	PASS

Test Graphs

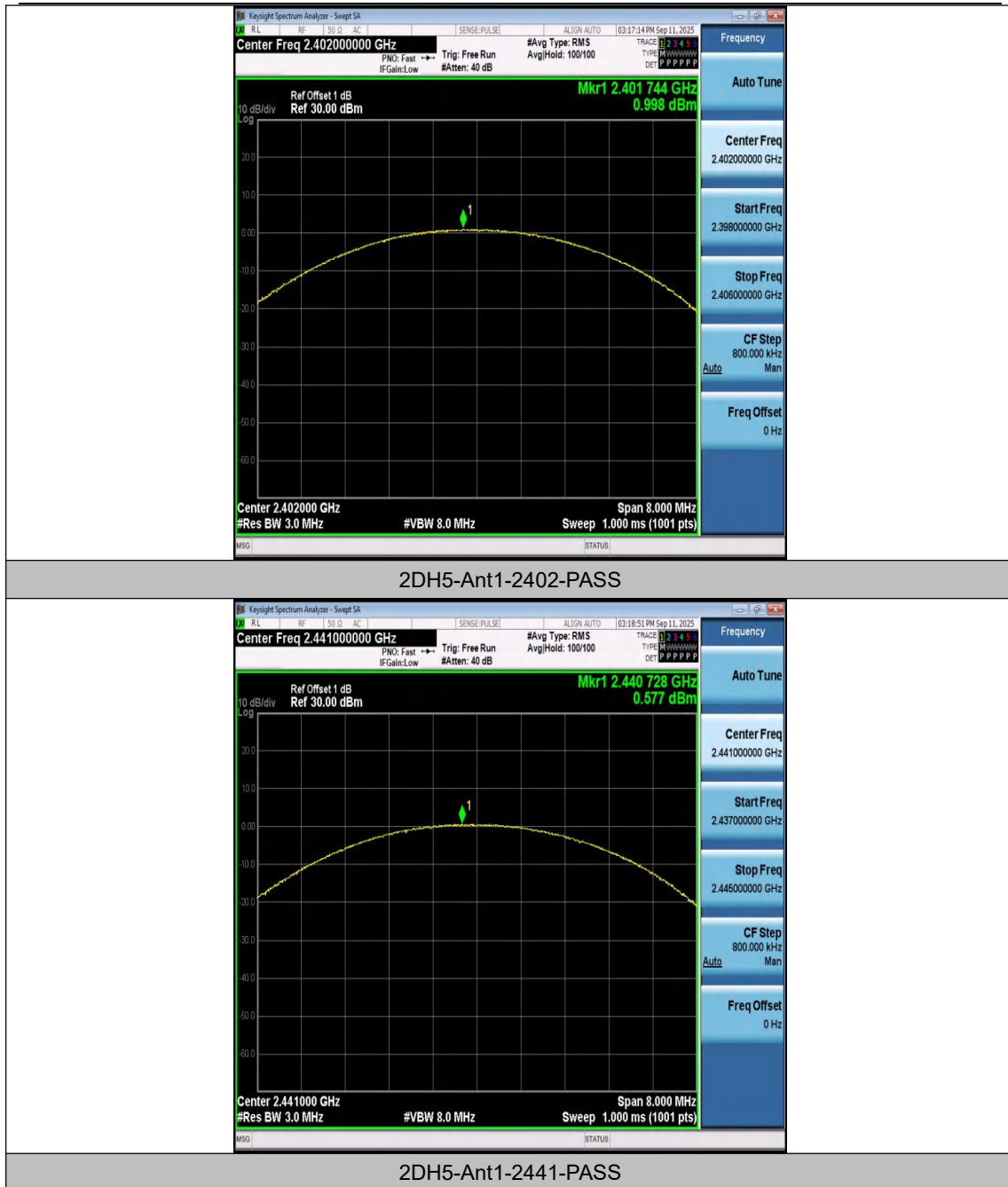




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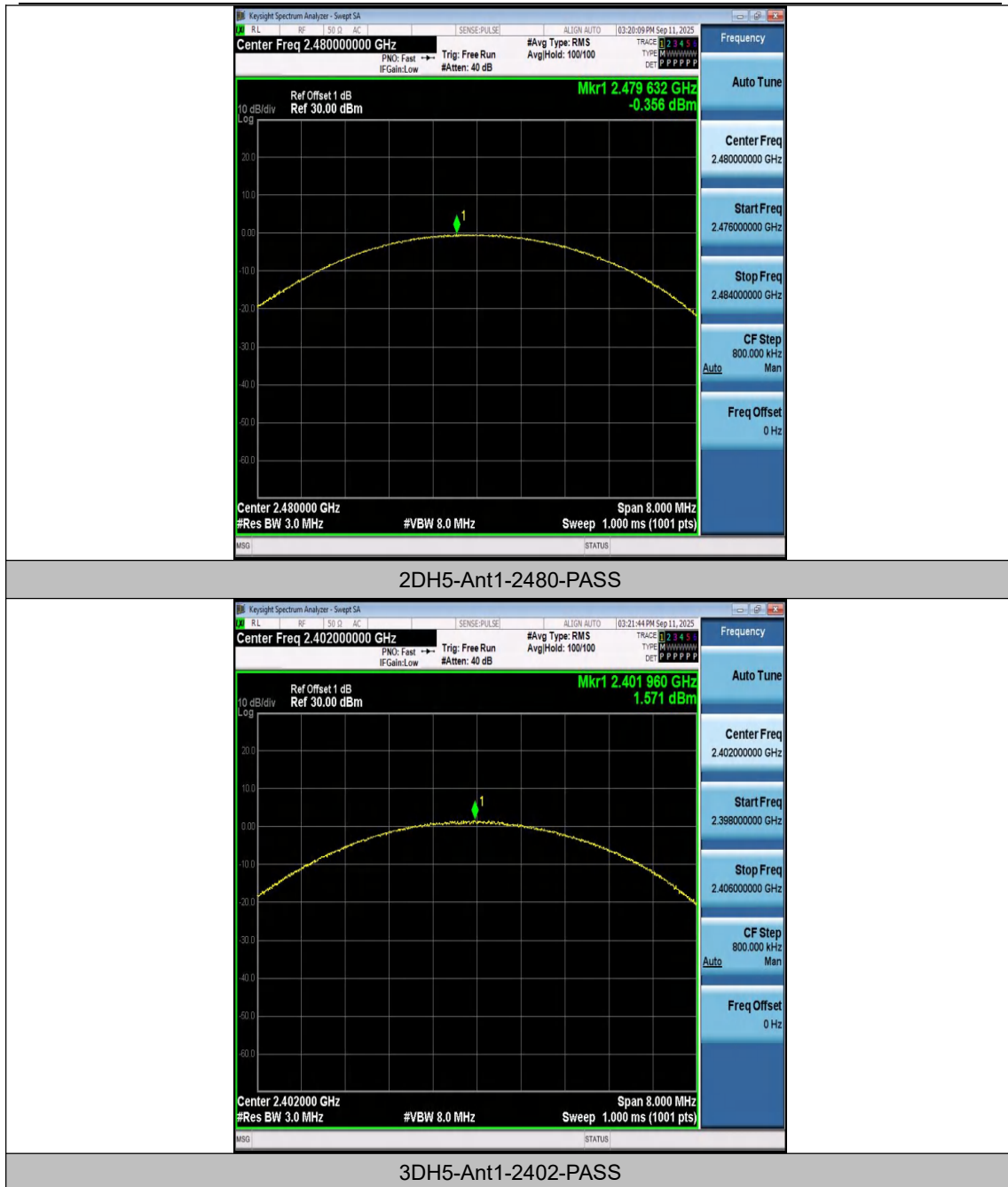
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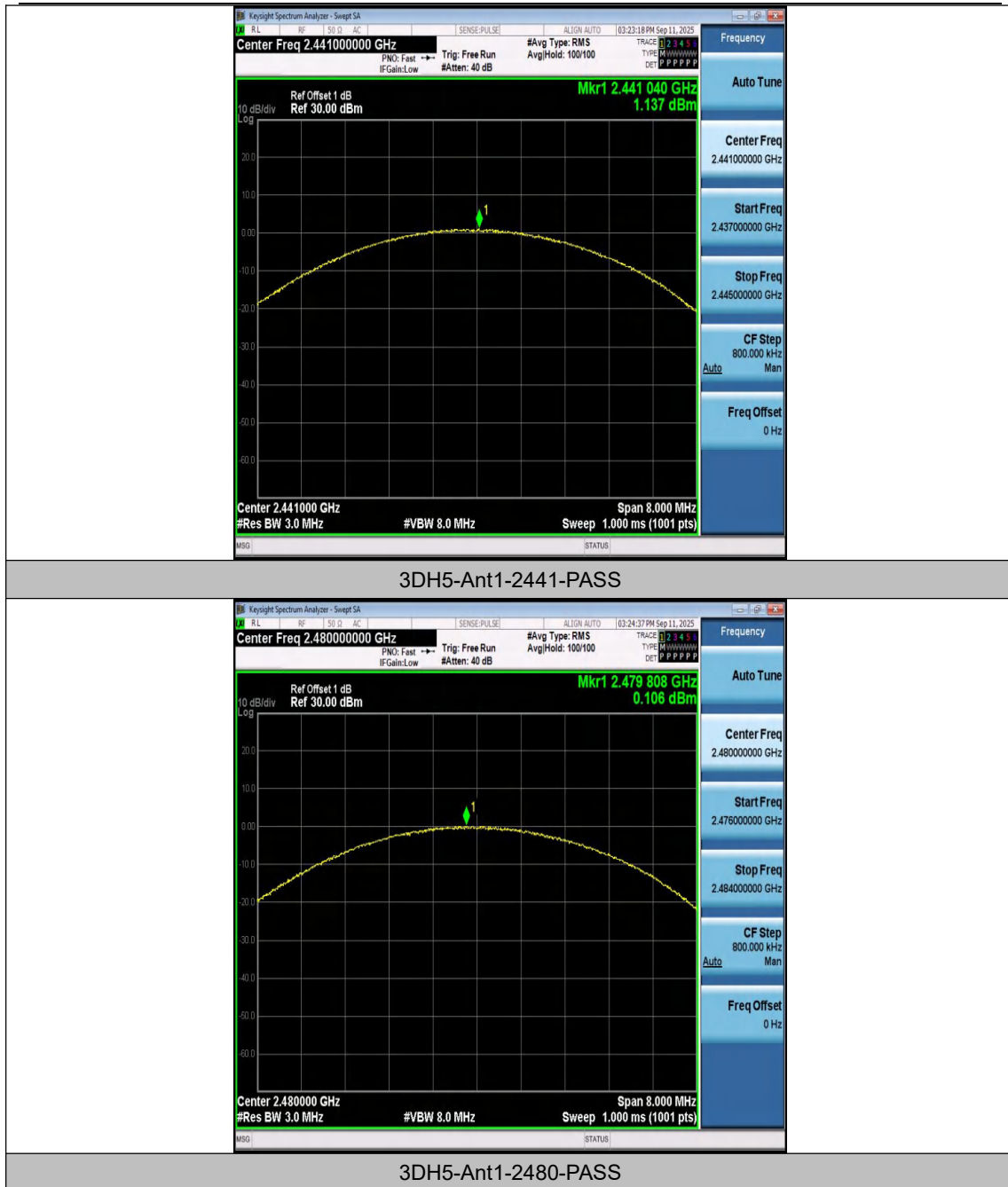
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.656	≥ 0.640	PASS
2DH5	Ant1	Hop	1.014	≥ 0.886	PASS
3DH5	Ant1	Hop	1.328	≥ 0.870	PASS

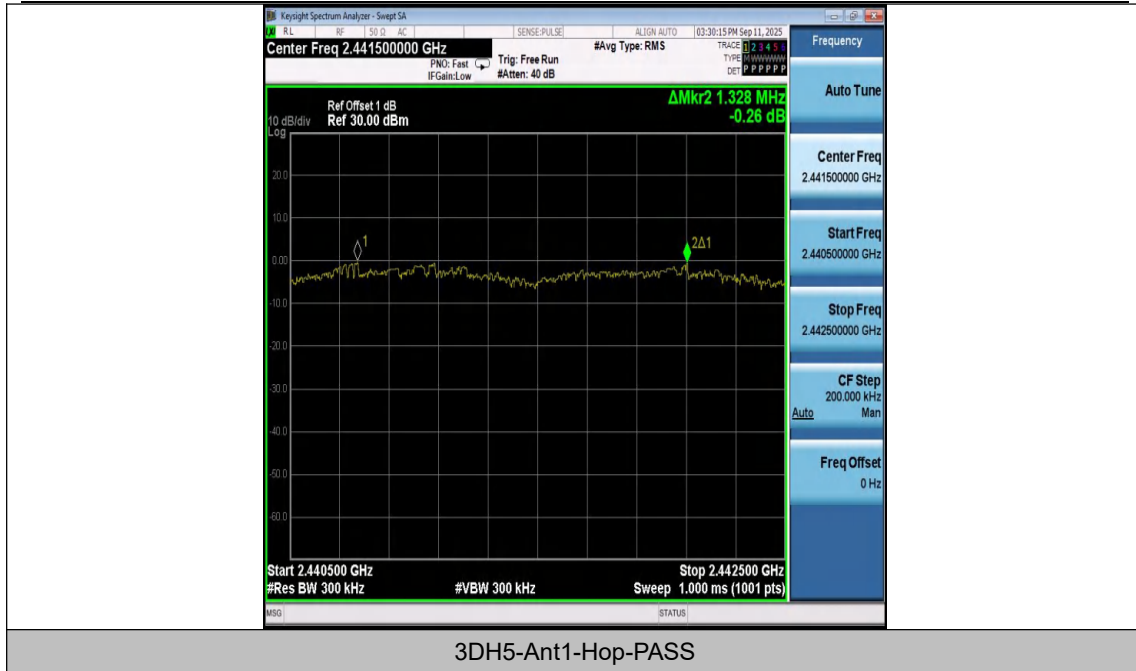
Test Graphs



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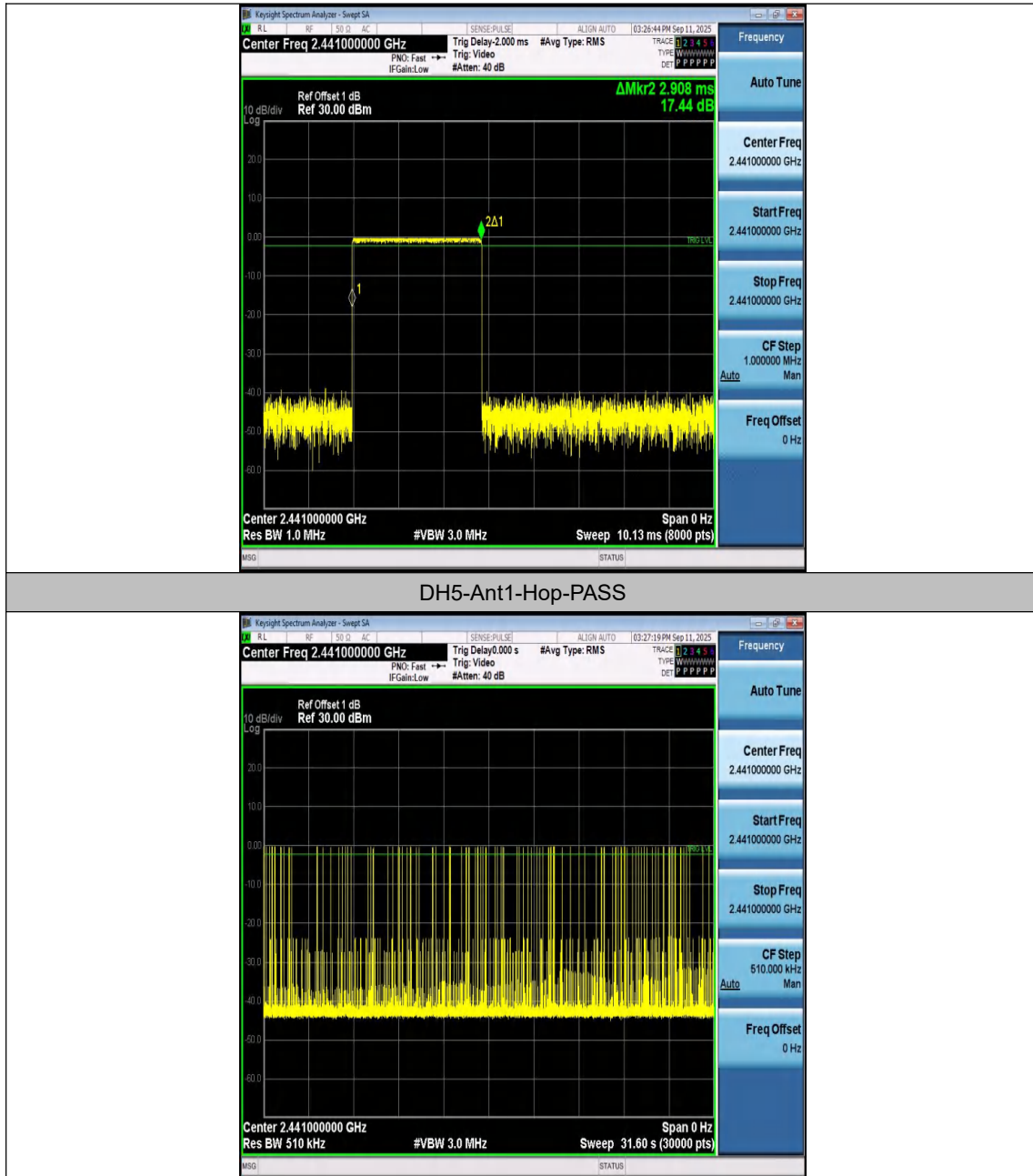
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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.908	112	0.326	≤0.4	PASS
2DH5	Ant1	Hop	2.915	104	0.303	≤0.4	PASS
3DH5	Ant1	Hop	2.917	112	0.327	≤0.4	PASS

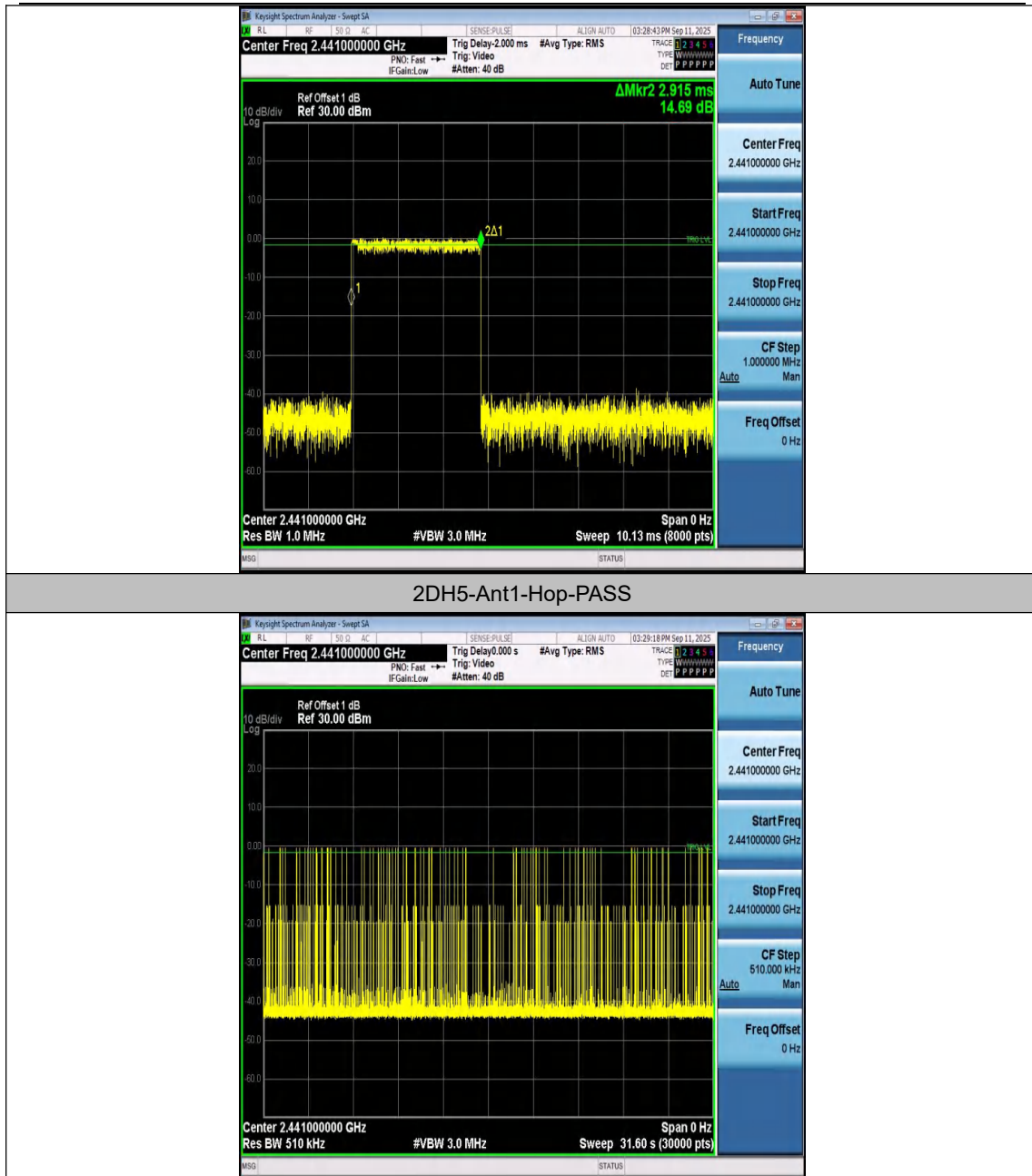
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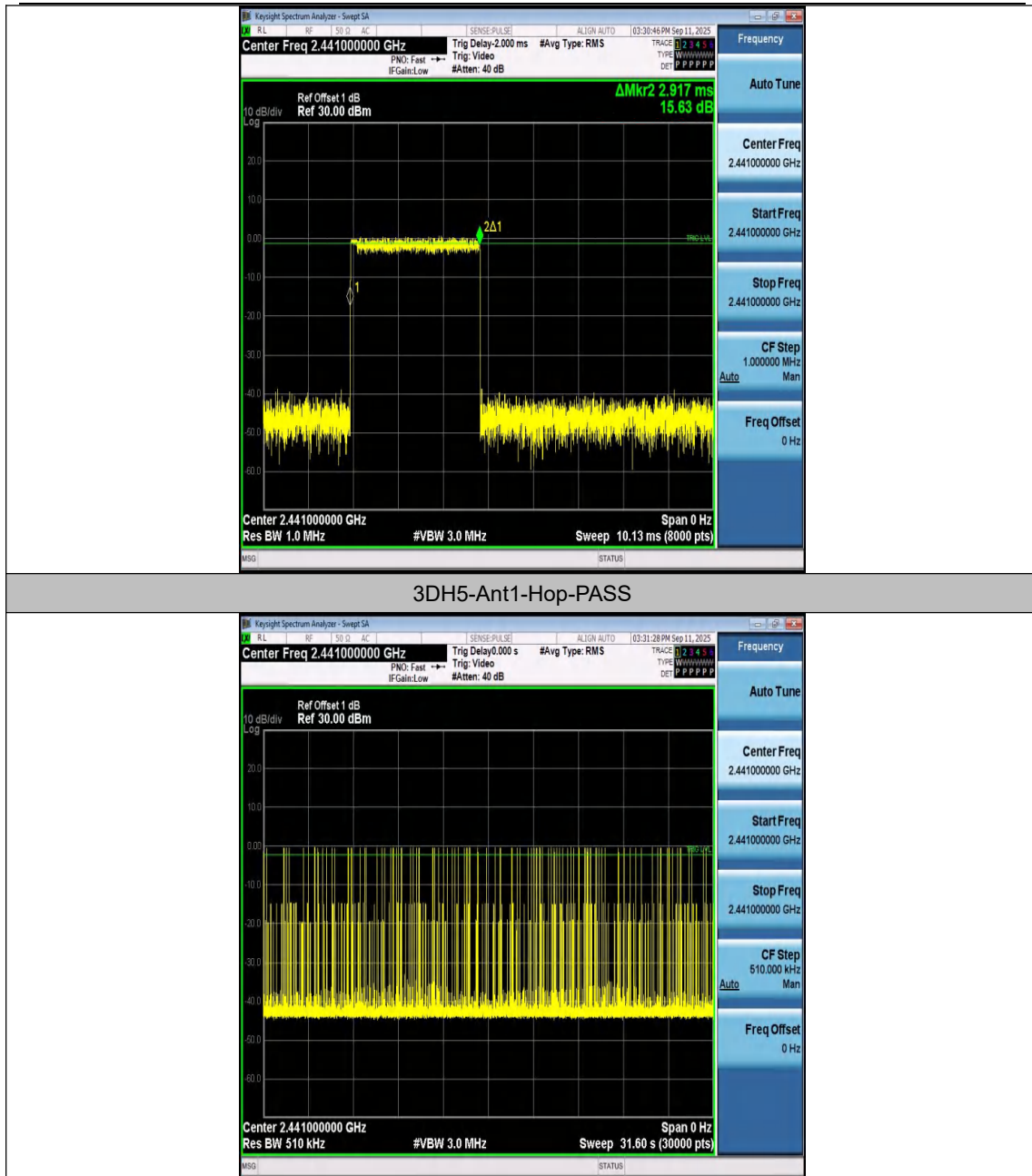
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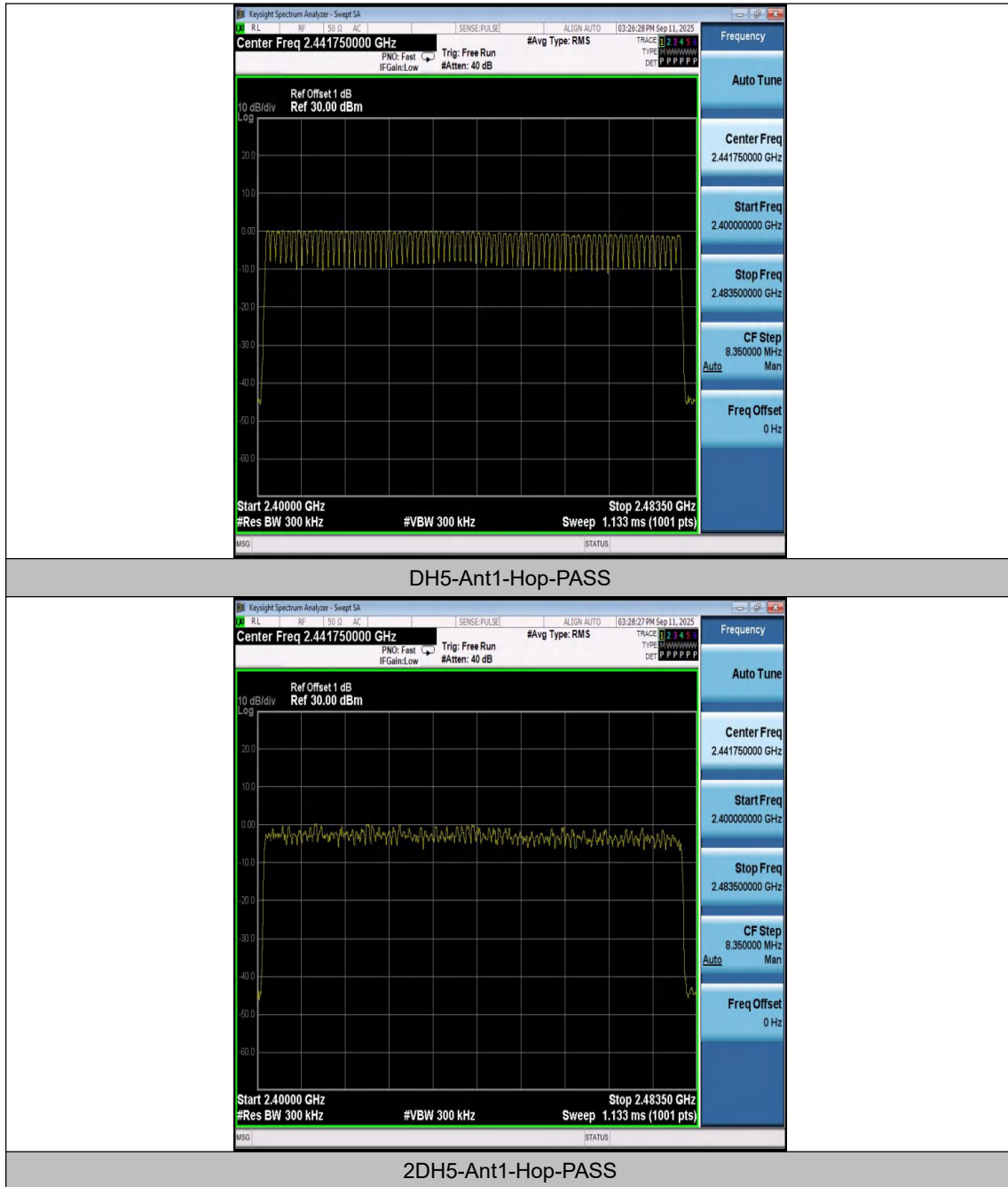
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Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

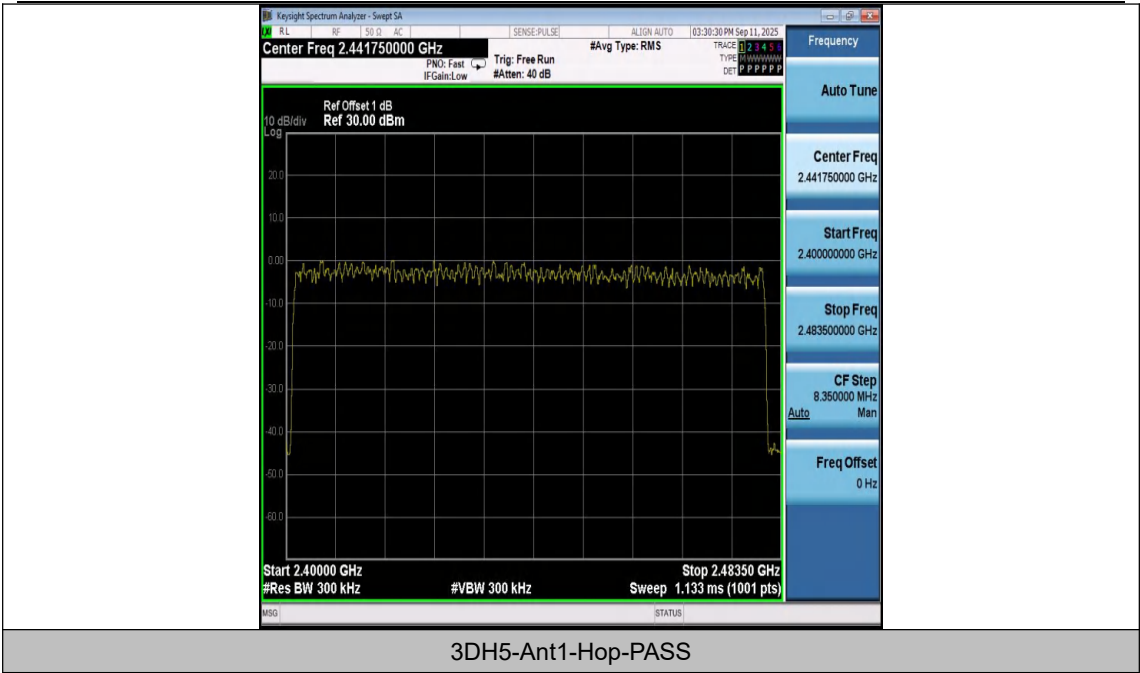
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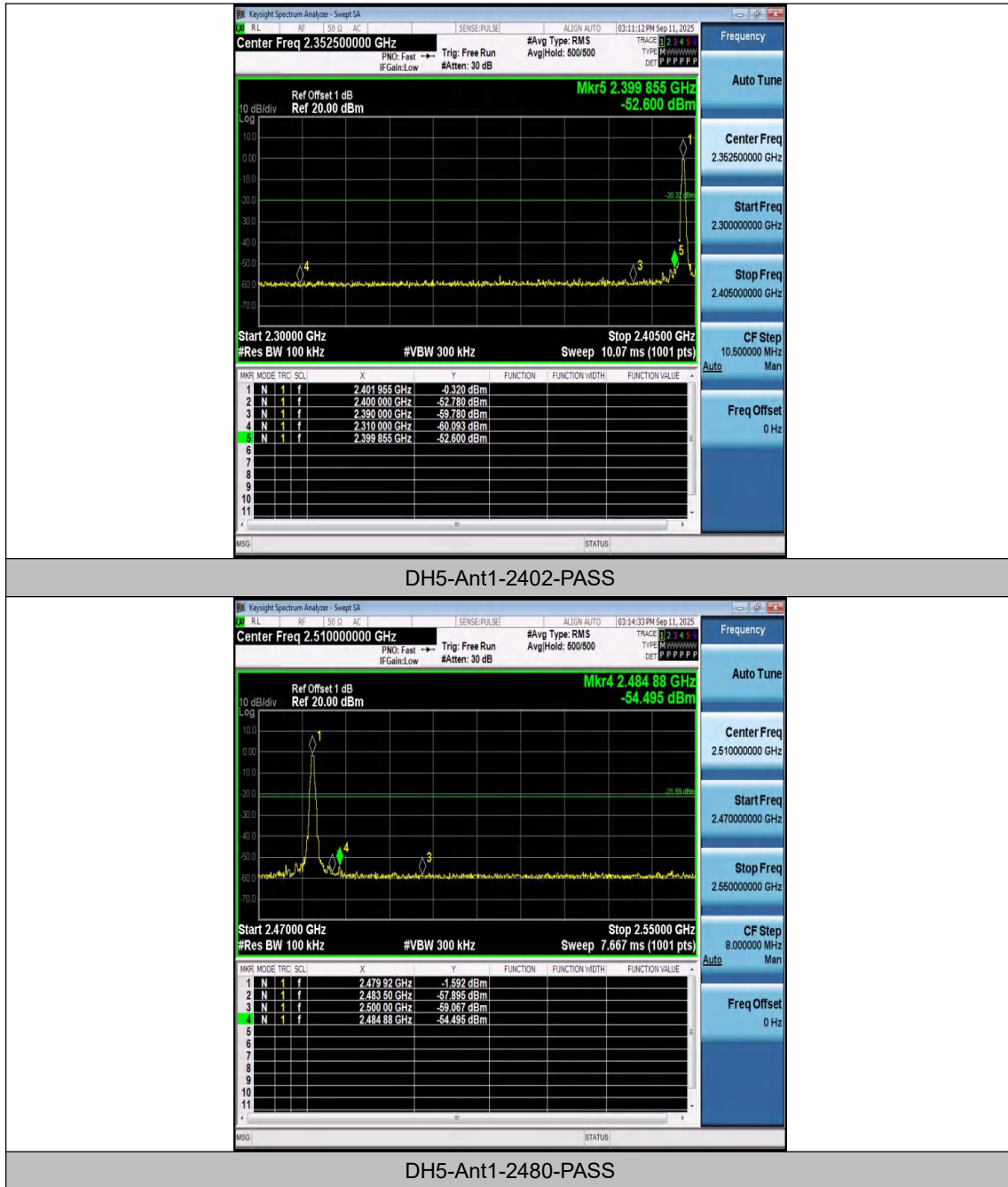
Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.32	-52.6	≤ -20.32	PASS
DH5	Ant1	High	2480	-1.59	-54.5	≤ -21.59	PASS
DH5	Ant1	Low	Hop_2402	-0.55	-56.37	≤ -20.55	PASS
DH5	Ant1	High	Hop_2480	-1.40	-56.32	≤ -21.4	PASS
2DH5	Ant1	Low	2402	-0.23	-48.88	≤ -20.23	PASS
2DH5	Ant1	High	2480	-1.59	-54.7	≤ -21.59	PASS
2DH5	Ant1	Low	Hop_2402	-2.96	-55.59	≤ -22.96	PASS
2DH5	Ant1	High	Hop_2480	-1.82	-37.88	≤ -21.82	PASS
3DH5	Ant1	Low	2402	-0.31	-52.62	≤ -20.31	PASS
3DH5	Ant1	High	2480	-1.88	-54.3	≤ -21.88	PASS
3DH5	Ant1	Low	Hop_2402	-1.88	-55.48	≤ -21.88	PASS
3DH5	Ant1	High	Hop_2480	-3.87	-55.77	≤ -23.87	PASS

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

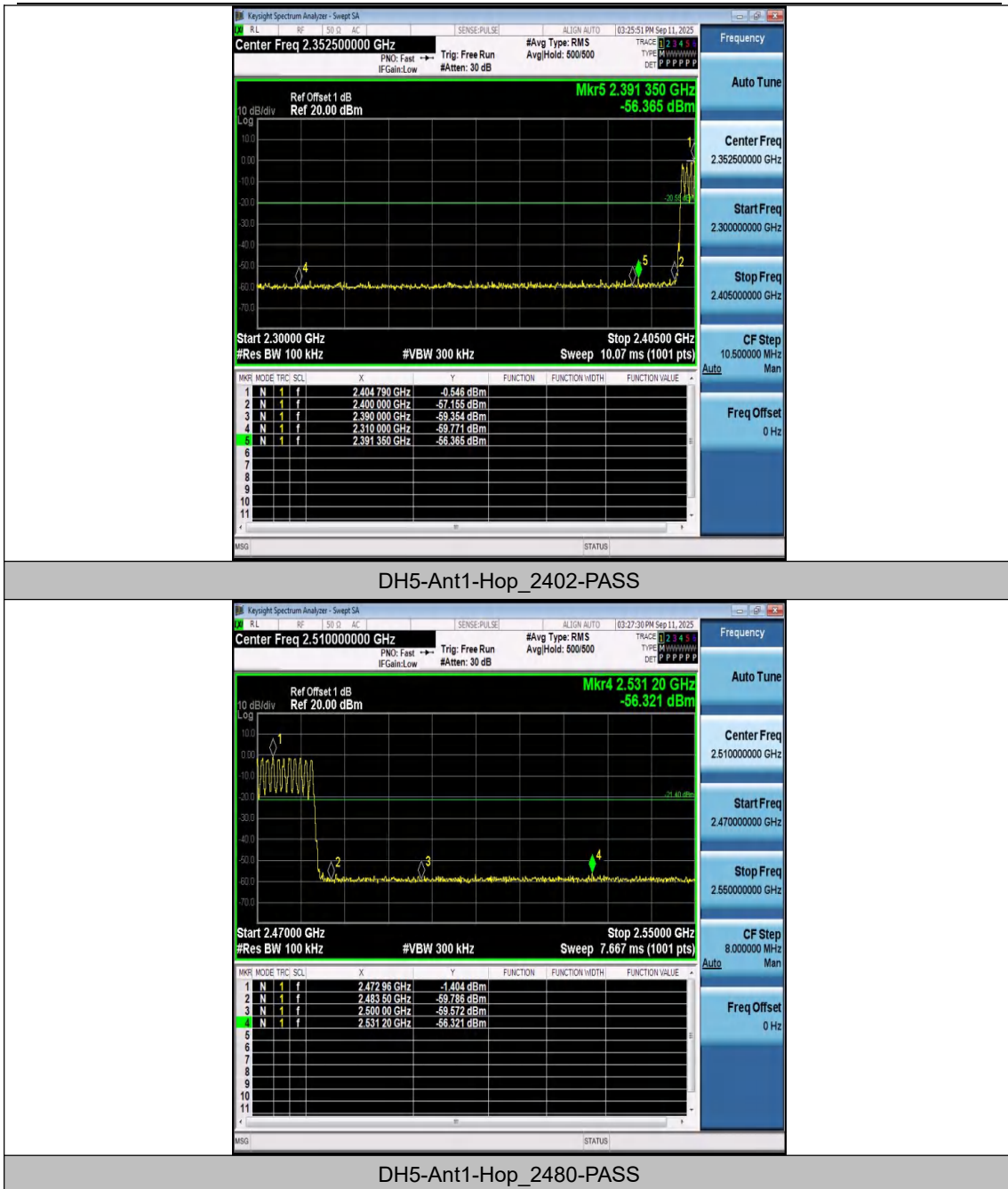
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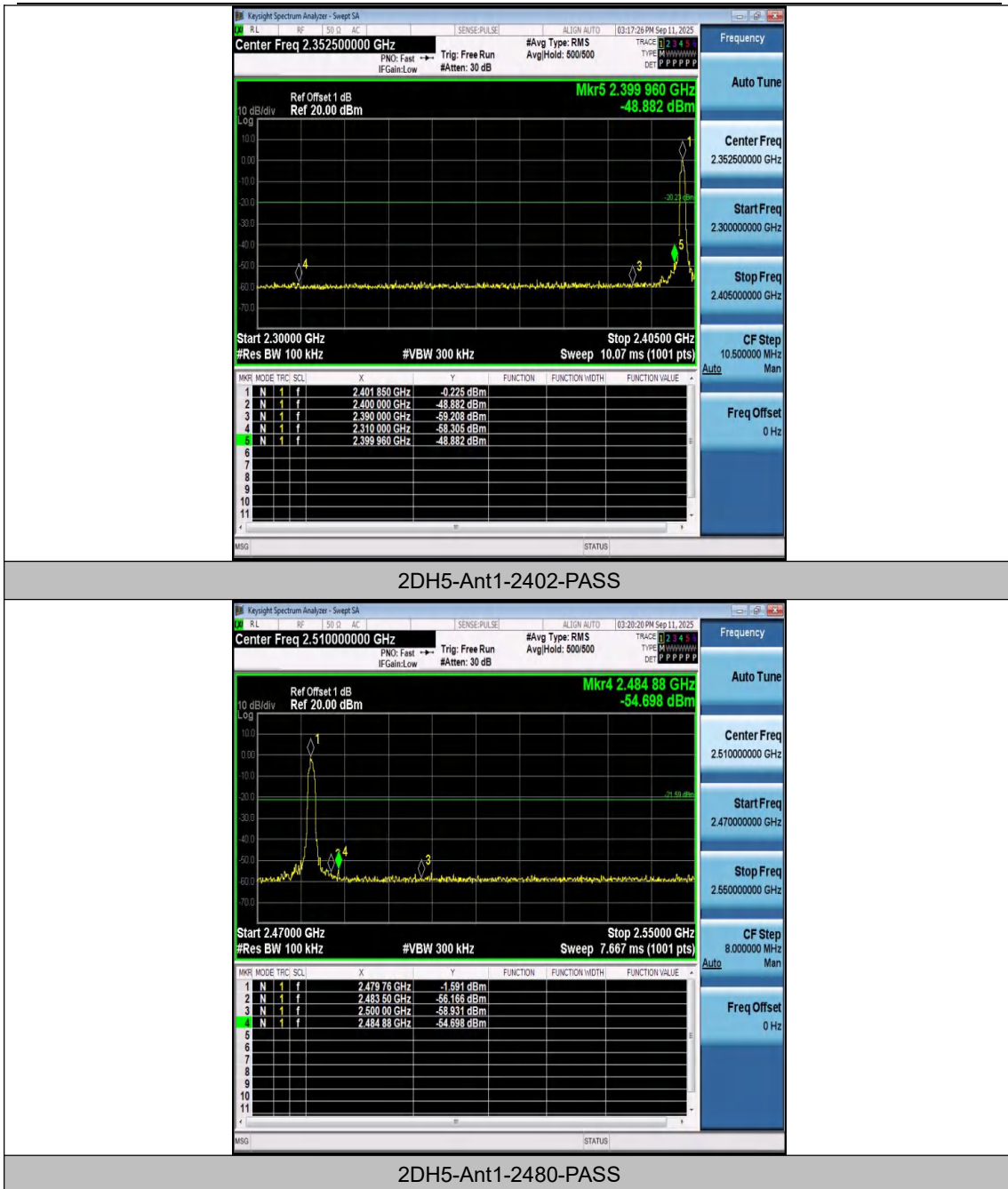
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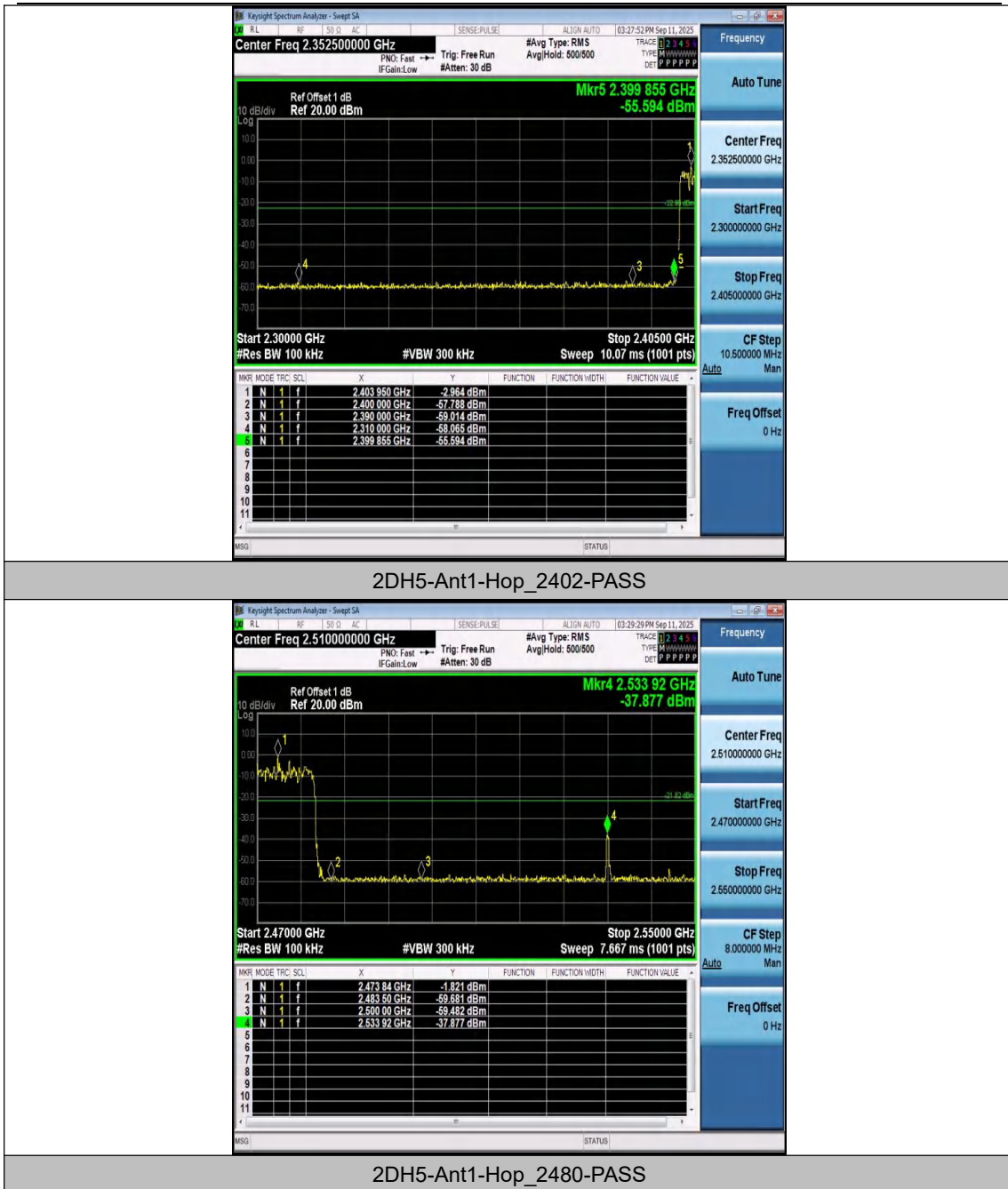


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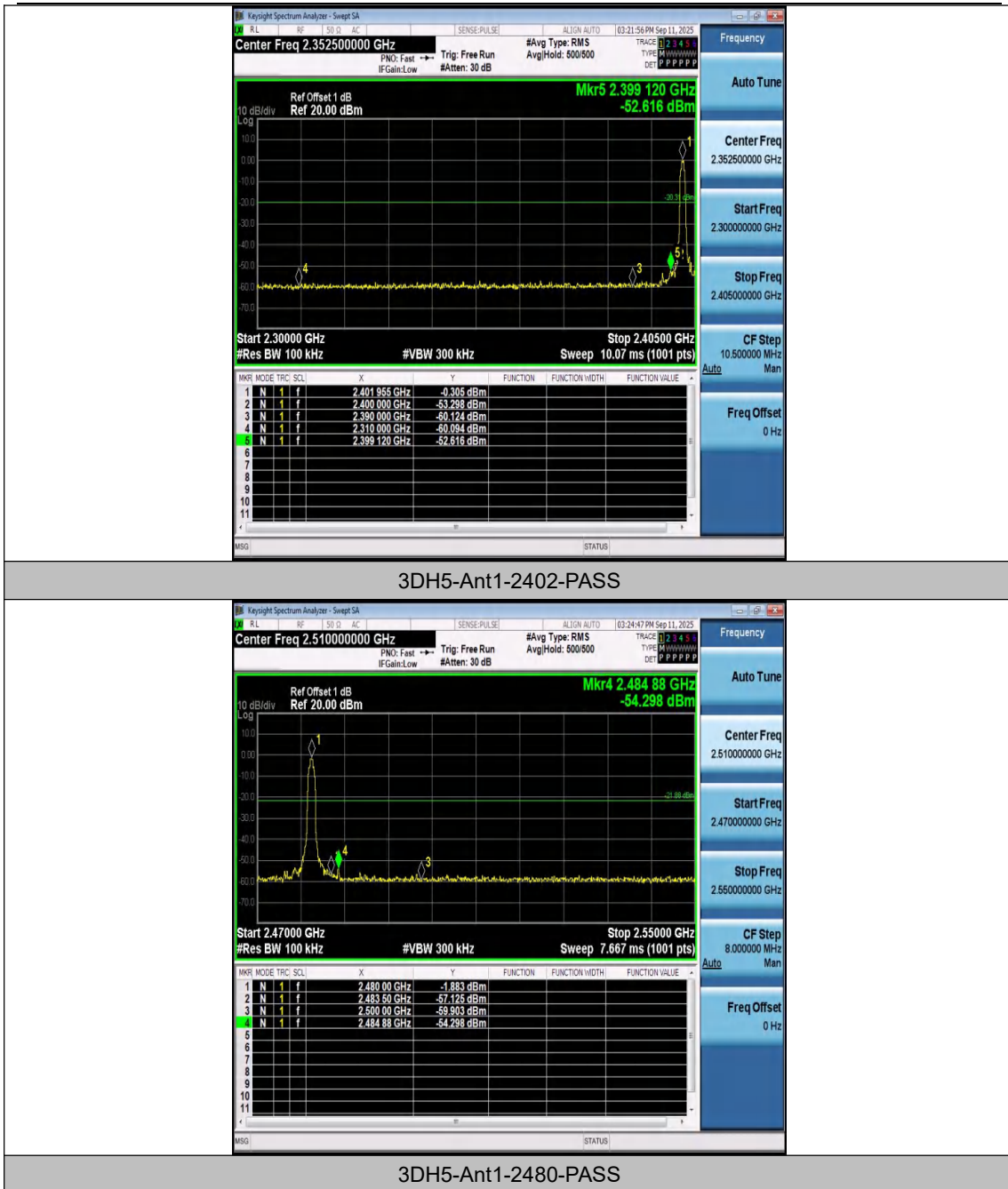


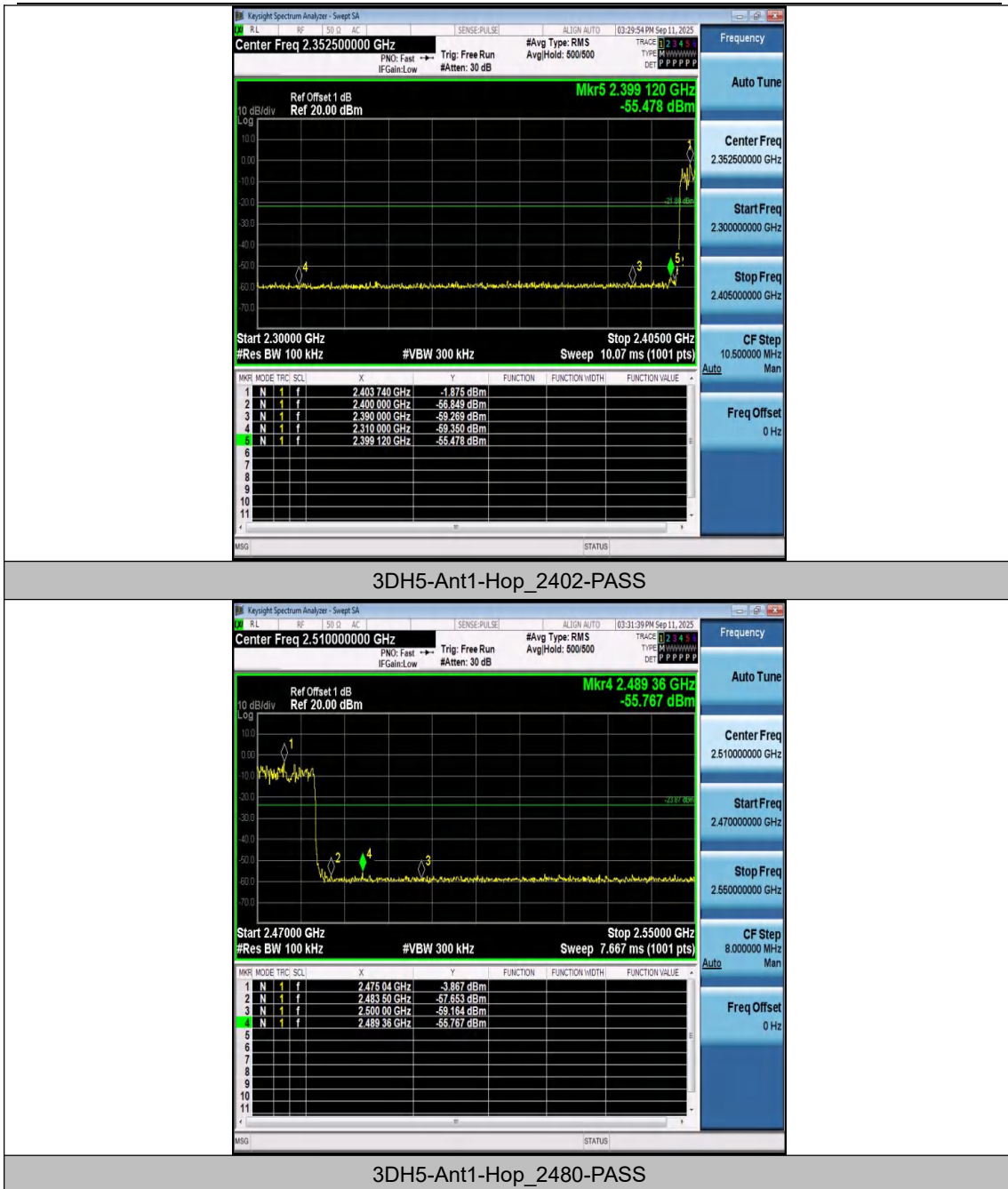


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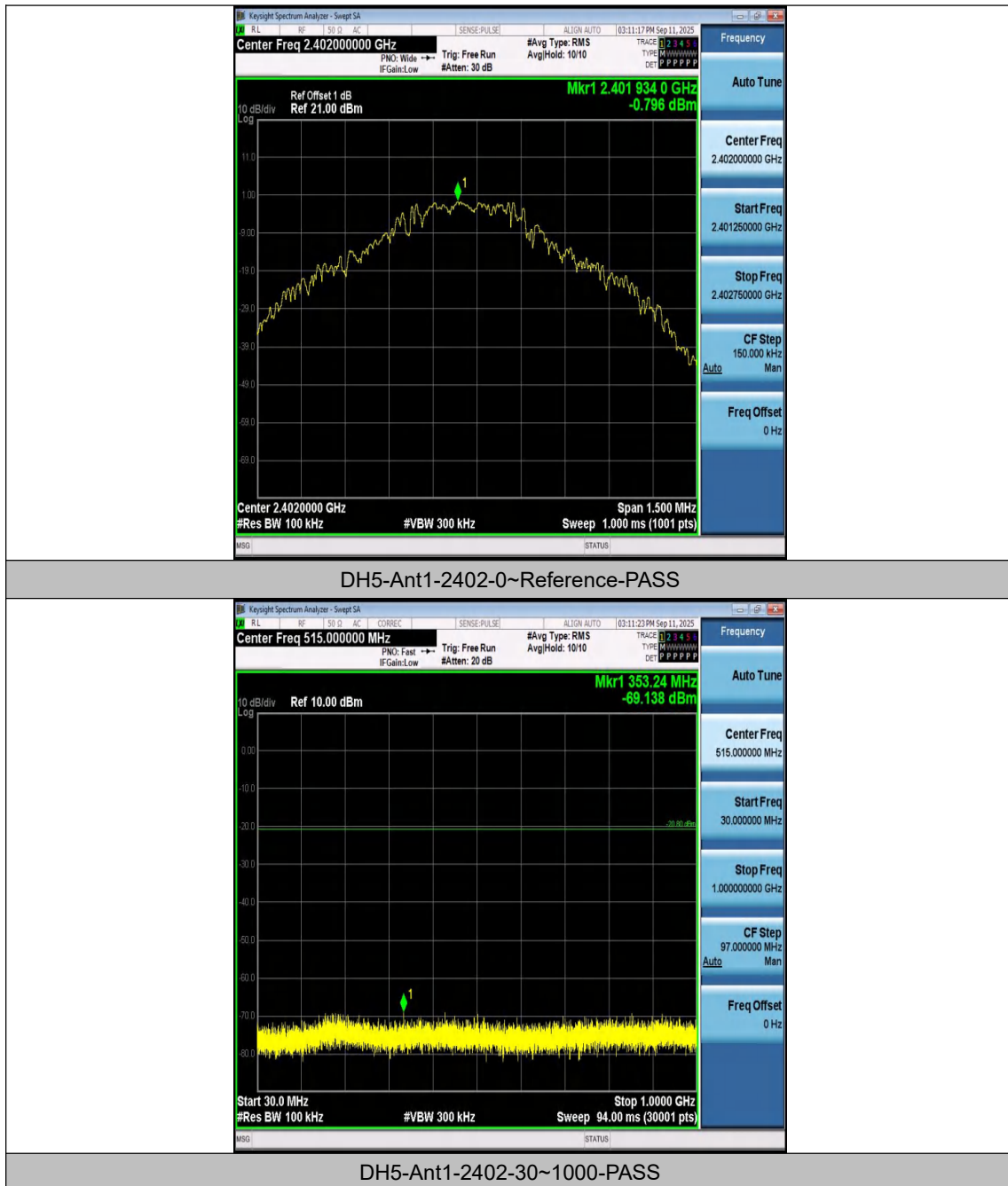
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.80	-0.80	---	PASS
DH5	Ant1	2402	30~1000	-0.80	-69.14	≤-20.8	PASS
DH5	Ant1	2402	1000~26500	-0.80	-52.99	≤-20.8	PASS
DH5	Ant1	2441	0~Reference	-0.98	-0.98	---	PASS
DH5	Ant1	2441	30~1000	-0.98	-69.12	≤-20.98	PASS
DH5	Ant1	2441	1000~26500	-0.98	-53.93	≤-20.98	PASS
DH5	Ant1	2480	0~Reference	-2.06	-2.06	---	PASS
DH5	Ant1	2480	30~1000	-2.06	-68.65	≤-22.06	PASS
DH5	Ant1	2480	1000~26500	-2.06	-53.46	≤-22.06	PASS
2DH5	Ant1	2402	0~Reference	-1.25	-1.25	---	PASS
2DH5	Ant1	2402	30~1000	-1.25	-68.33	≤-21.25	PASS
2DH5	Ant1	2402	1000~26500	-1.25	-53.3	≤-21.25	PASS
2DH5	Ant1	2441	0~Reference	-1.53	-1.53	---	PASS
2DH5	Ant1	2441	30~1000	-1.53	-68.22	≤-21.53	PASS
2DH5	Ant1	2441	1000~26500	-1.53	-53.7	≤-21.53	PASS
2DH5	Ant1	2480	0~Reference	-2.74	-2.74	---	PASS
2DH5	Ant1	2480	30~1000	-2.74	-68.45	≤-22.74	PASS
2DH5	Ant1	2480	1000~26500	-2.74	-53.88	≤-22.74	PASS
3DH5	Ant1	2402	0~Reference	-3.39	-3.39	---	PASS
3DH5	Ant1	2402	30~1000	-3.39	-69.01	≤-23.39	PASS
3DH5	Ant1	2402	1000~26500	-3.39	-53.16	≤-23.39	PASS
3DH5	Ant1	2441	0~Reference	-2.78	-2.78	---	PASS
3DH5	Ant1	2441	30~1000	-2.78	-68.12	≤-22.78	PASS
3DH5	Ant1	2441	1000~26500	-2.78	-53.3	≤-22.78	PASS
3DH5	Ant1	2480	0~Reference	-5.82	-5.82	---	PASS
3DH5	Ant1	2480	30~1000	-5.82	-68.72	≤-25.82	PASS
3DH5	Ant1	2480	1000~26500	-5.82	-53.12	≤-25.82	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

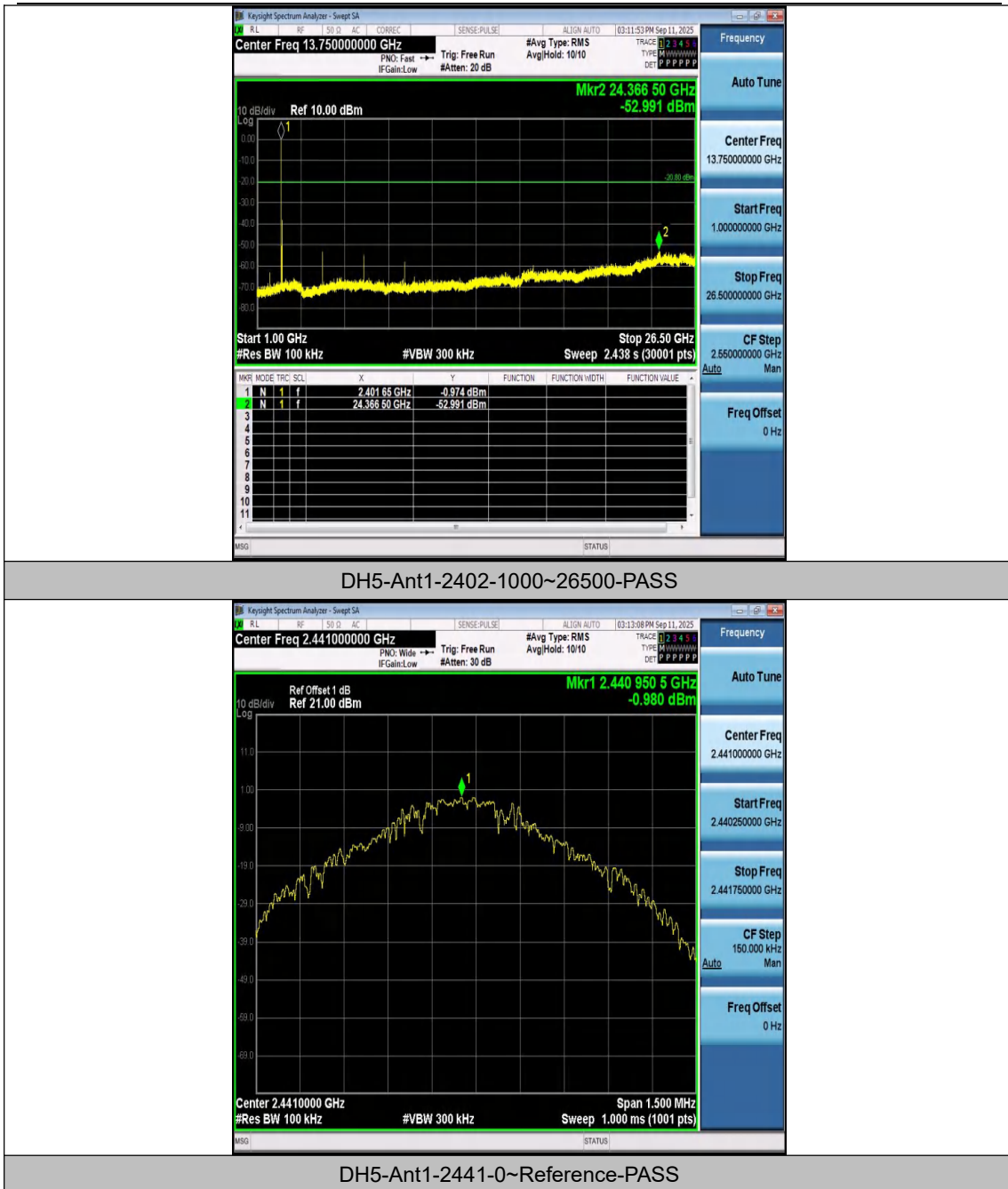
Test Graphs



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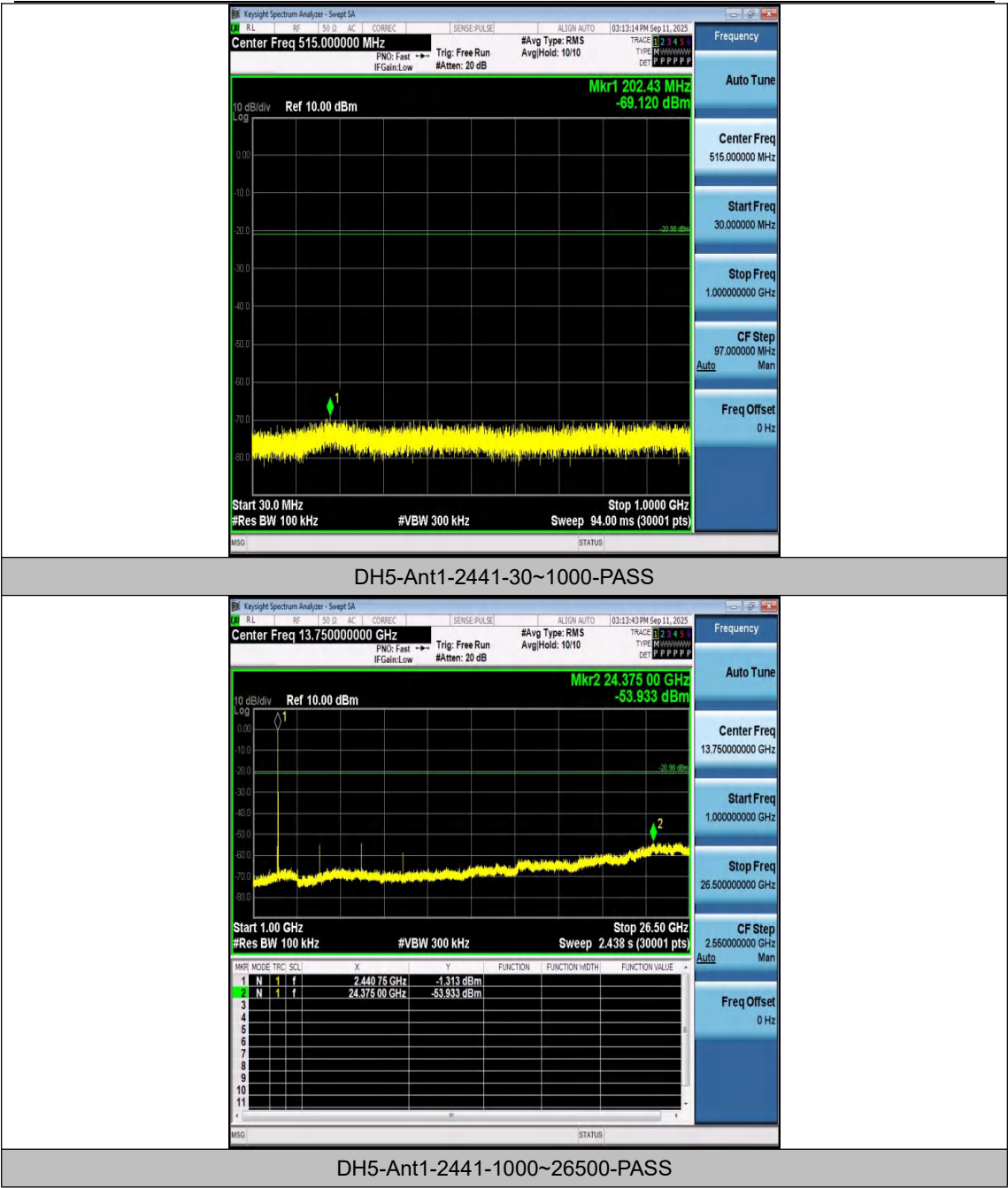
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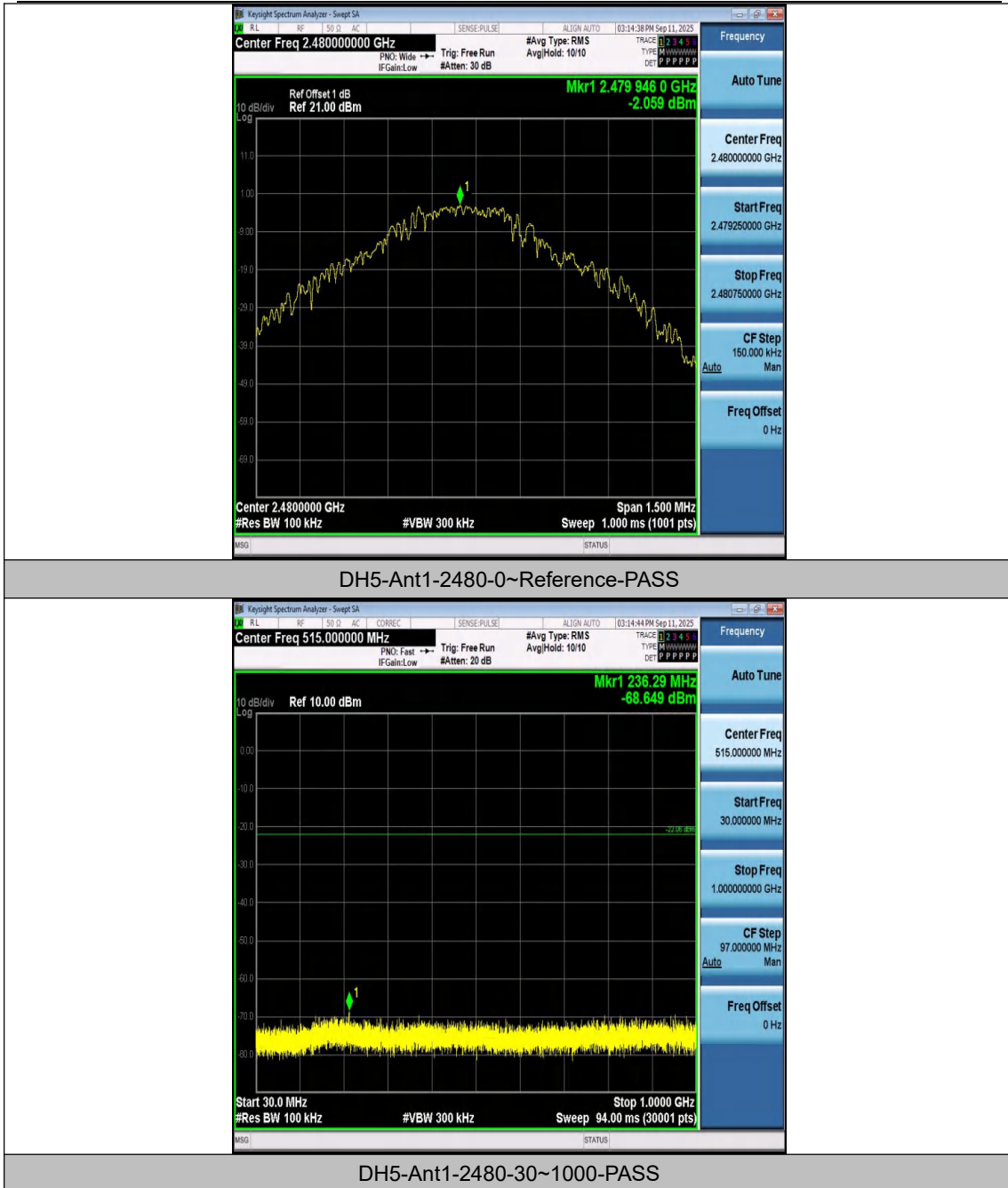


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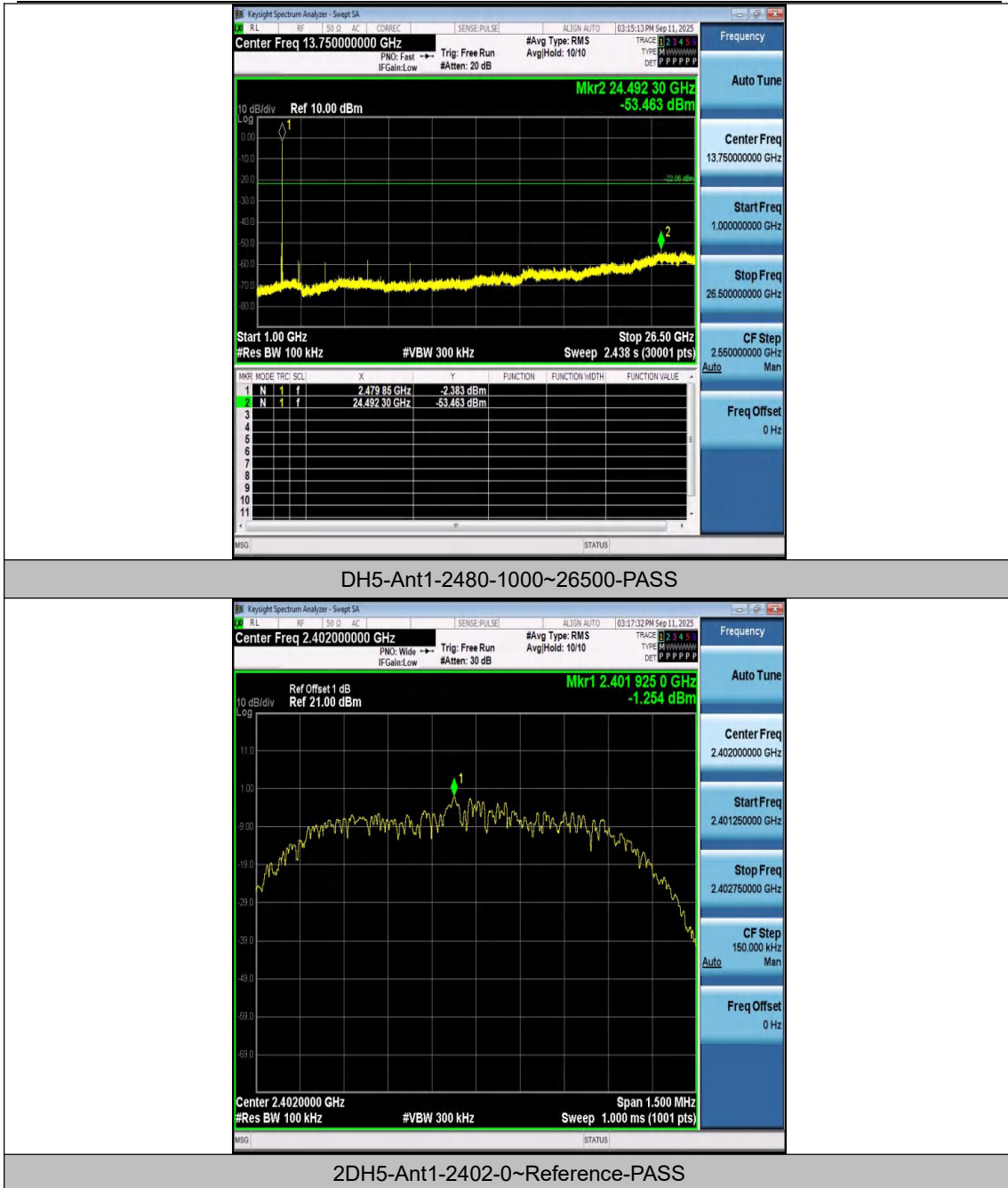




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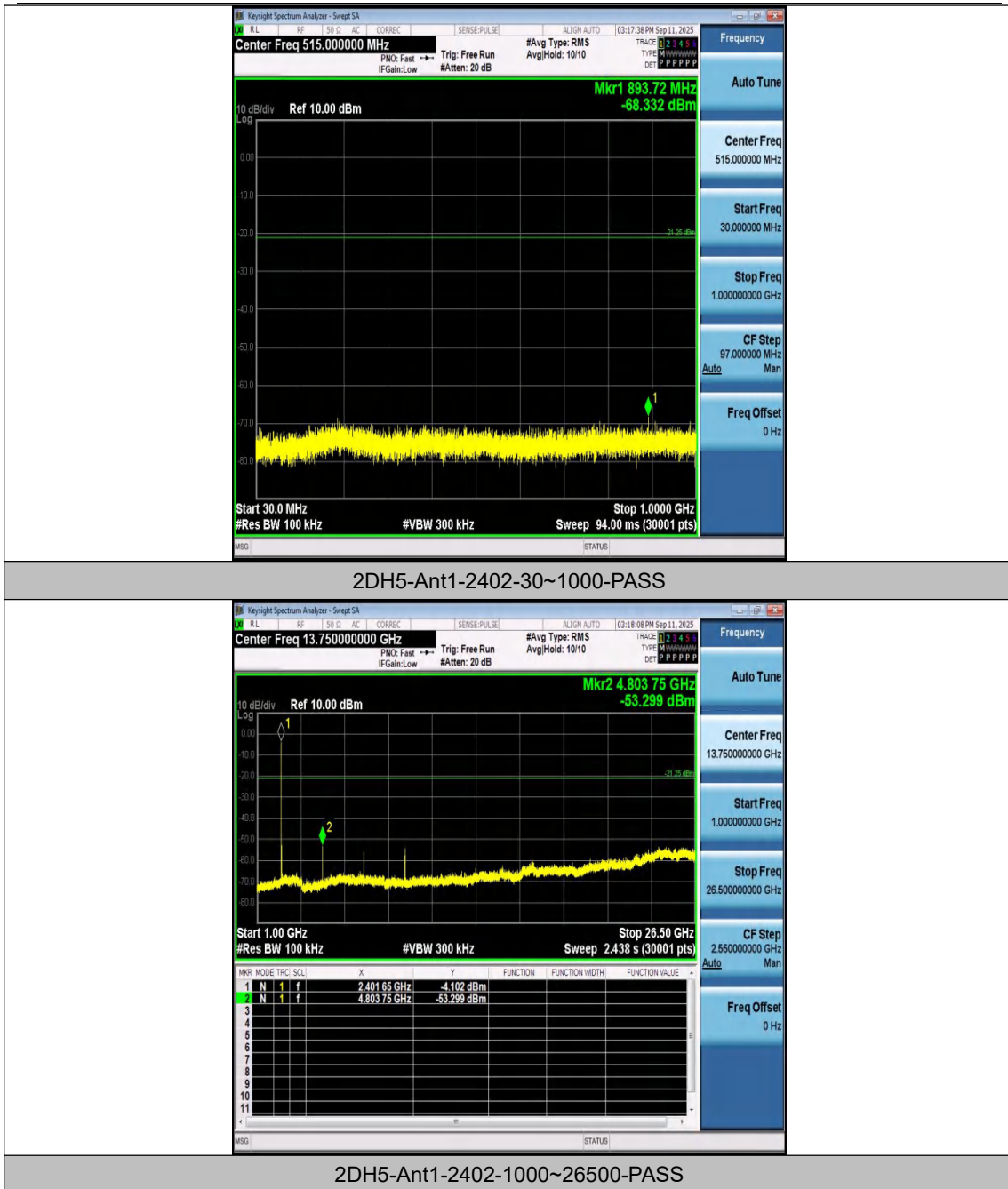
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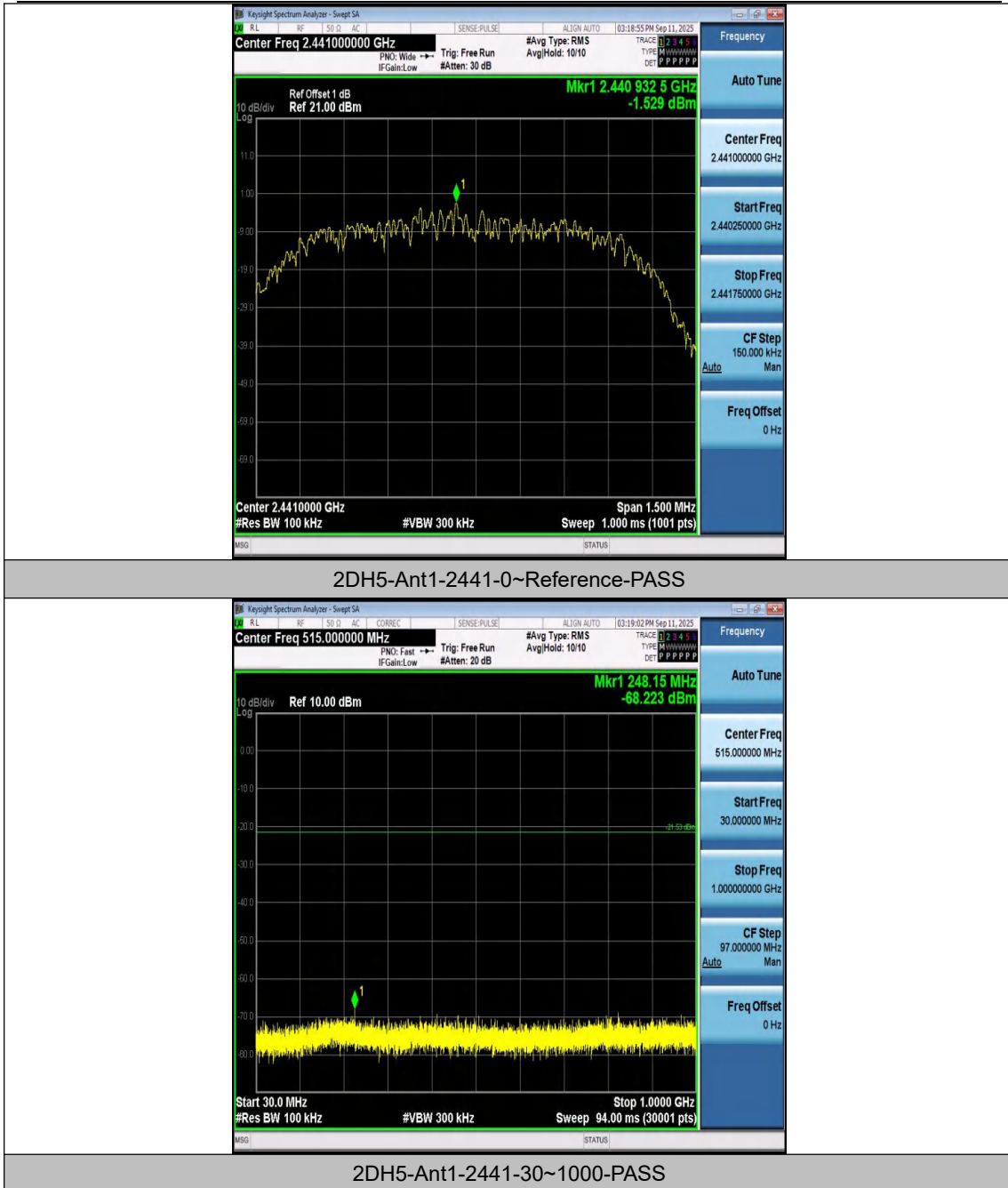
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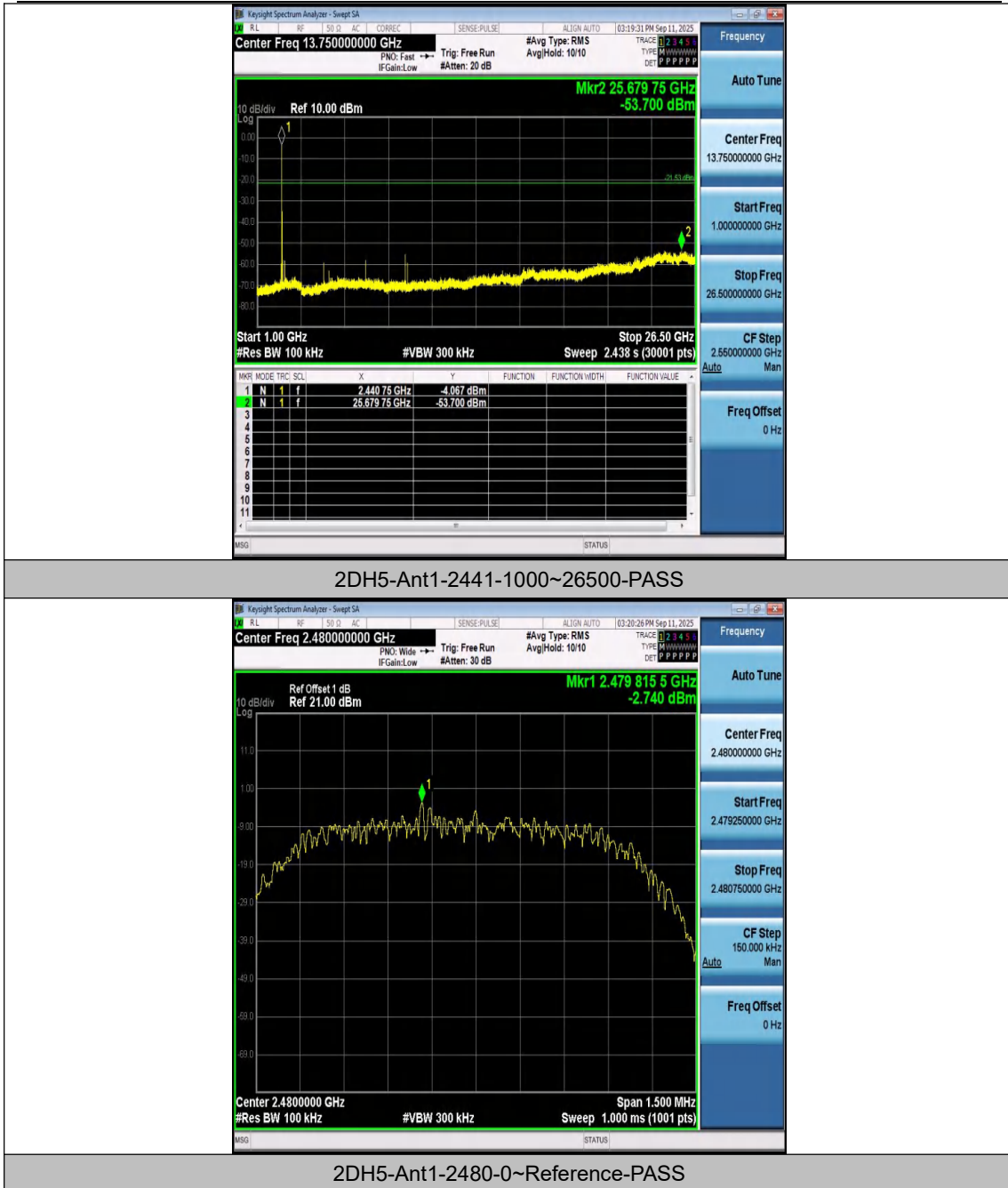
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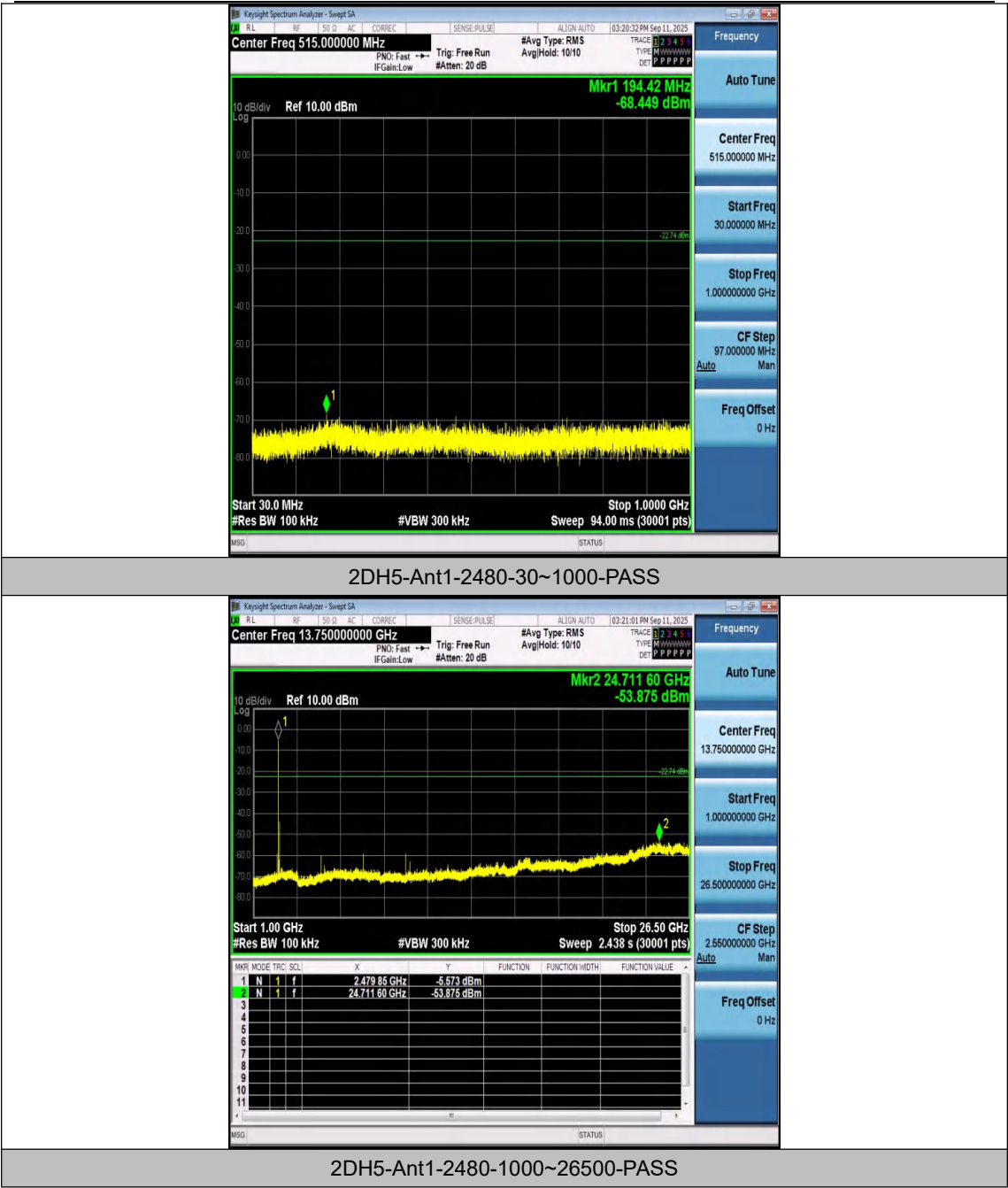
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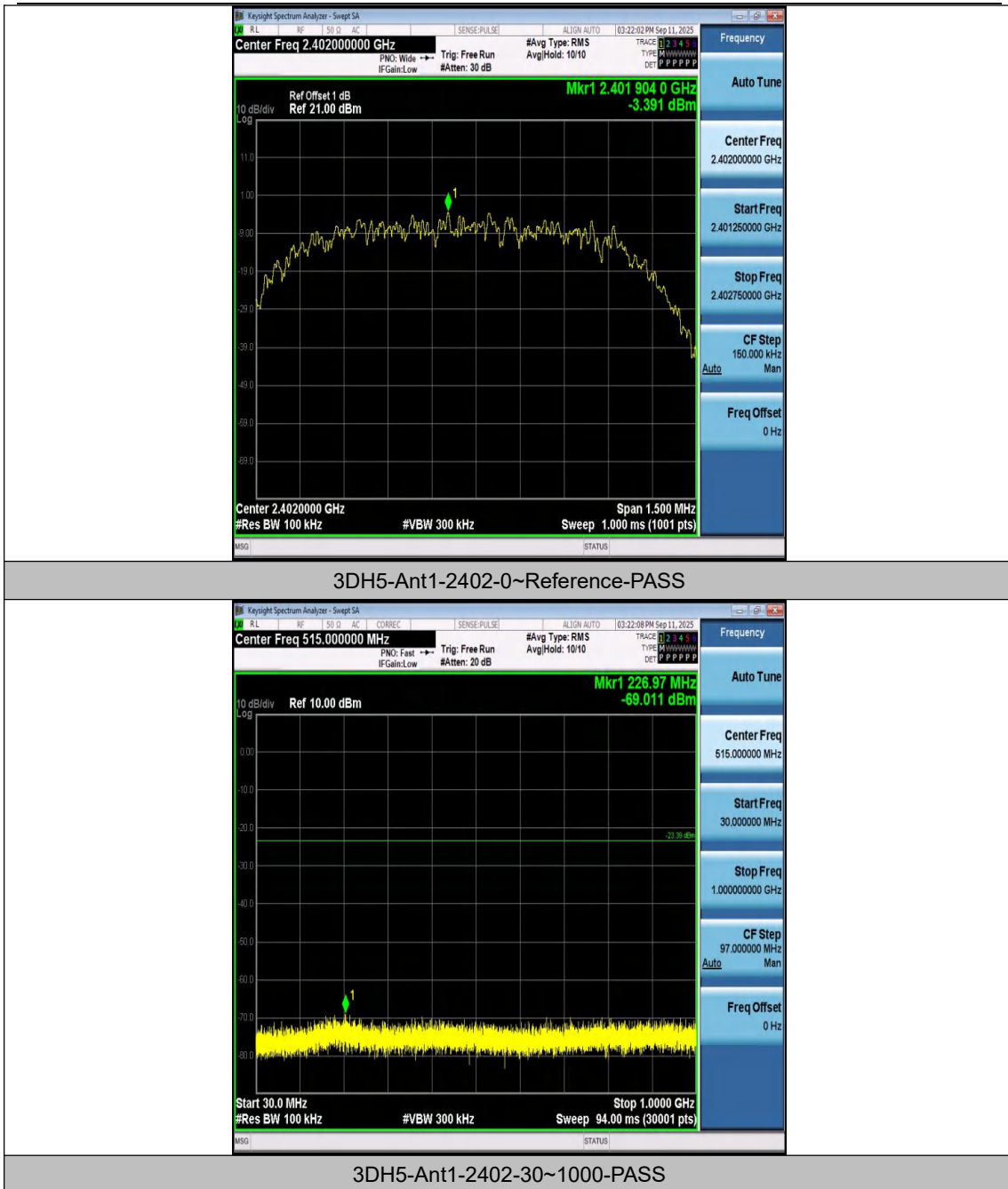


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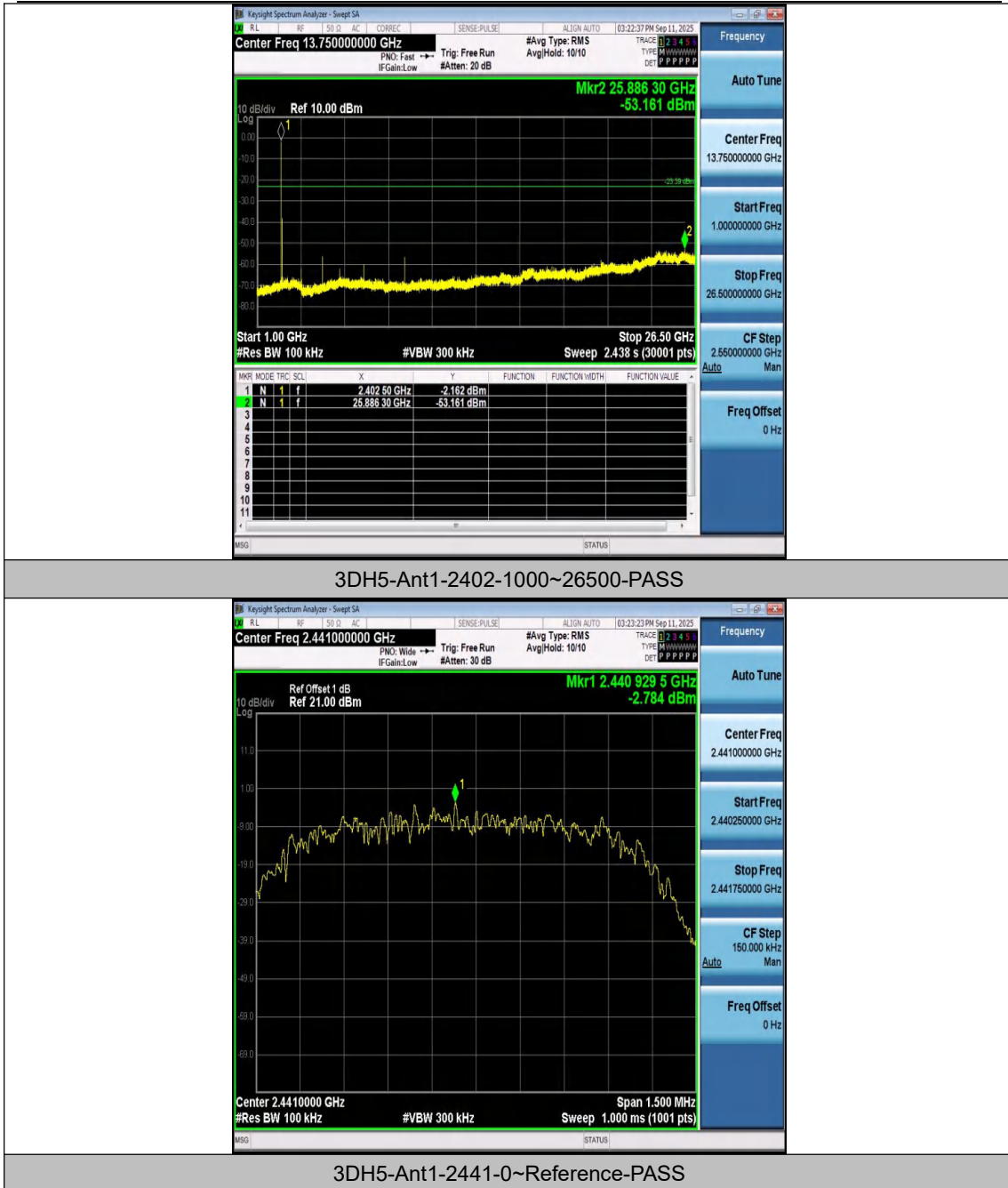




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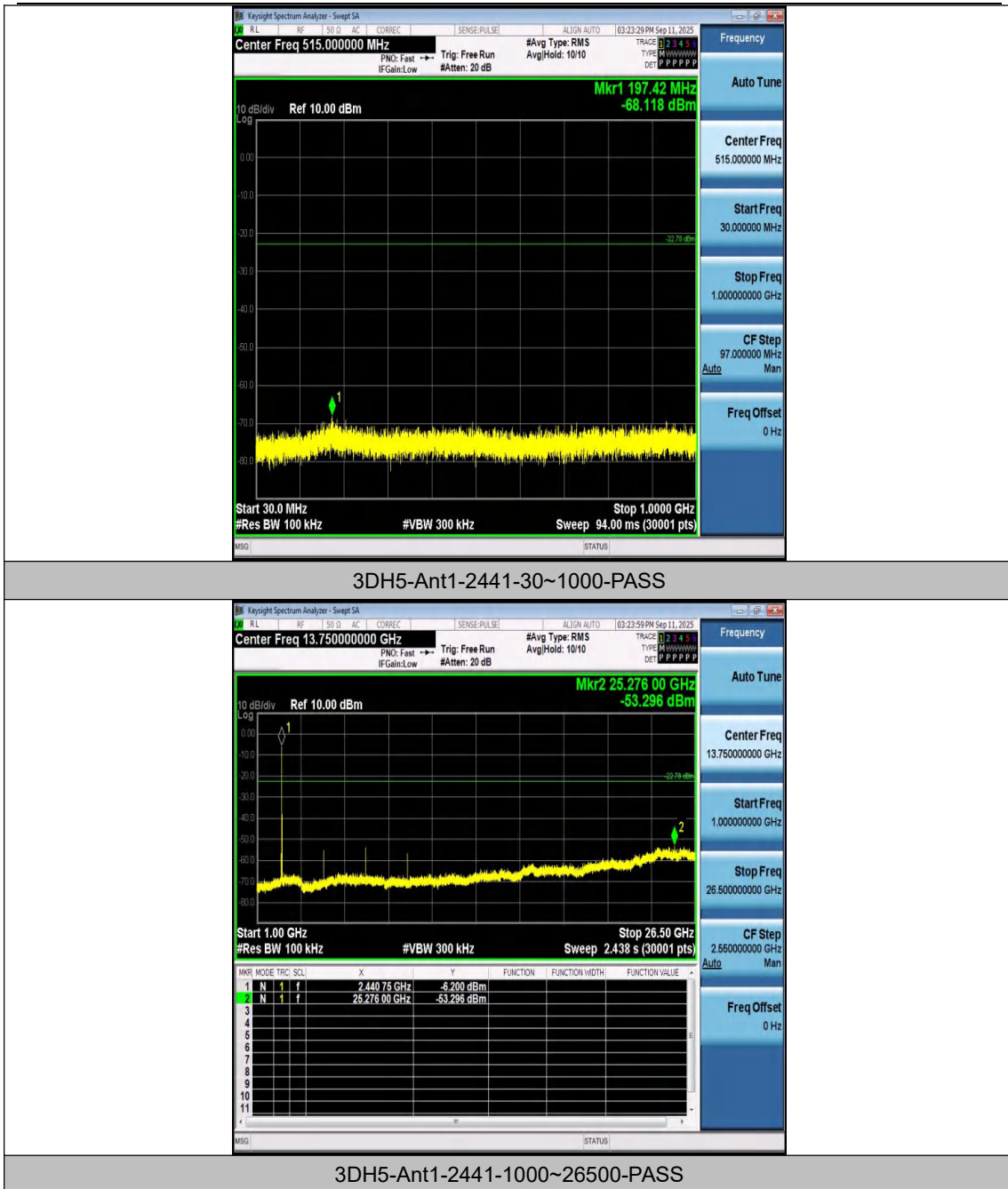
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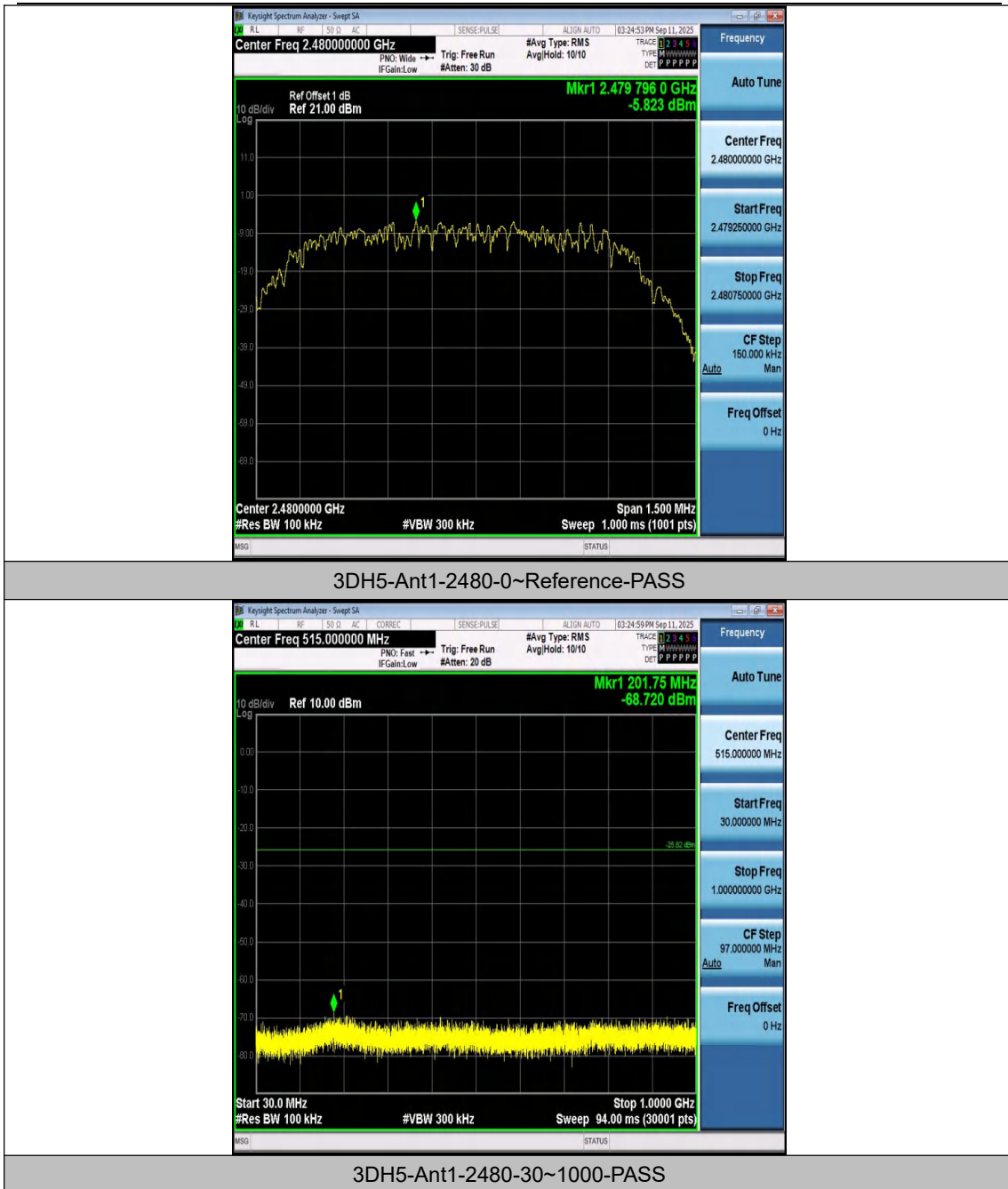
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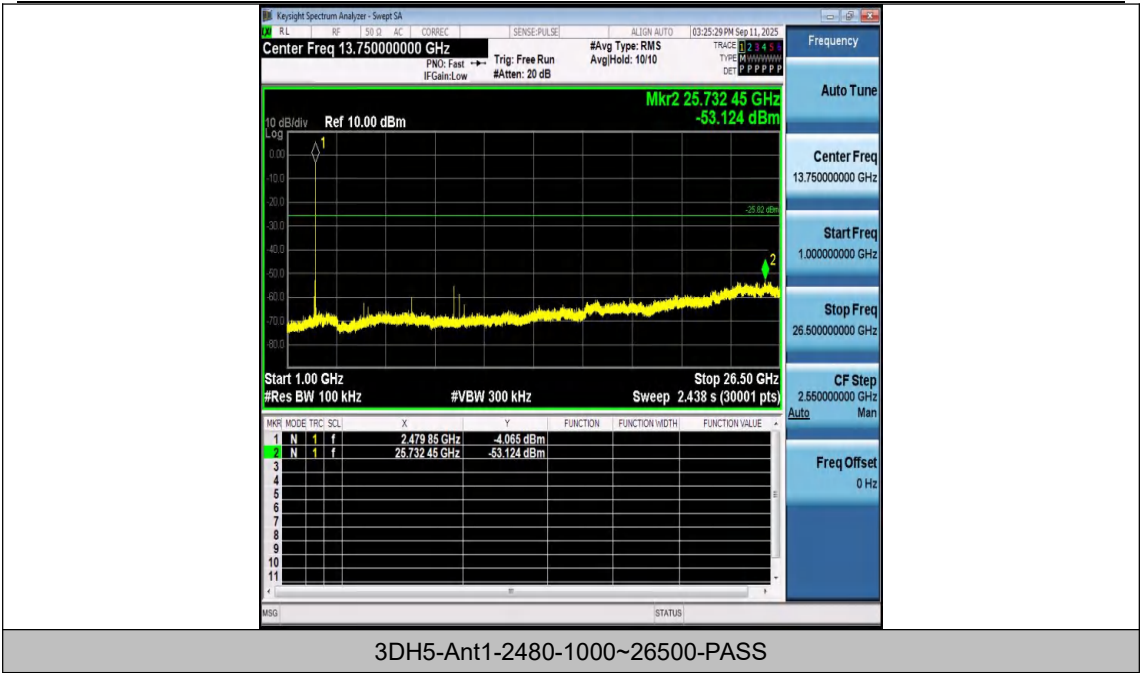
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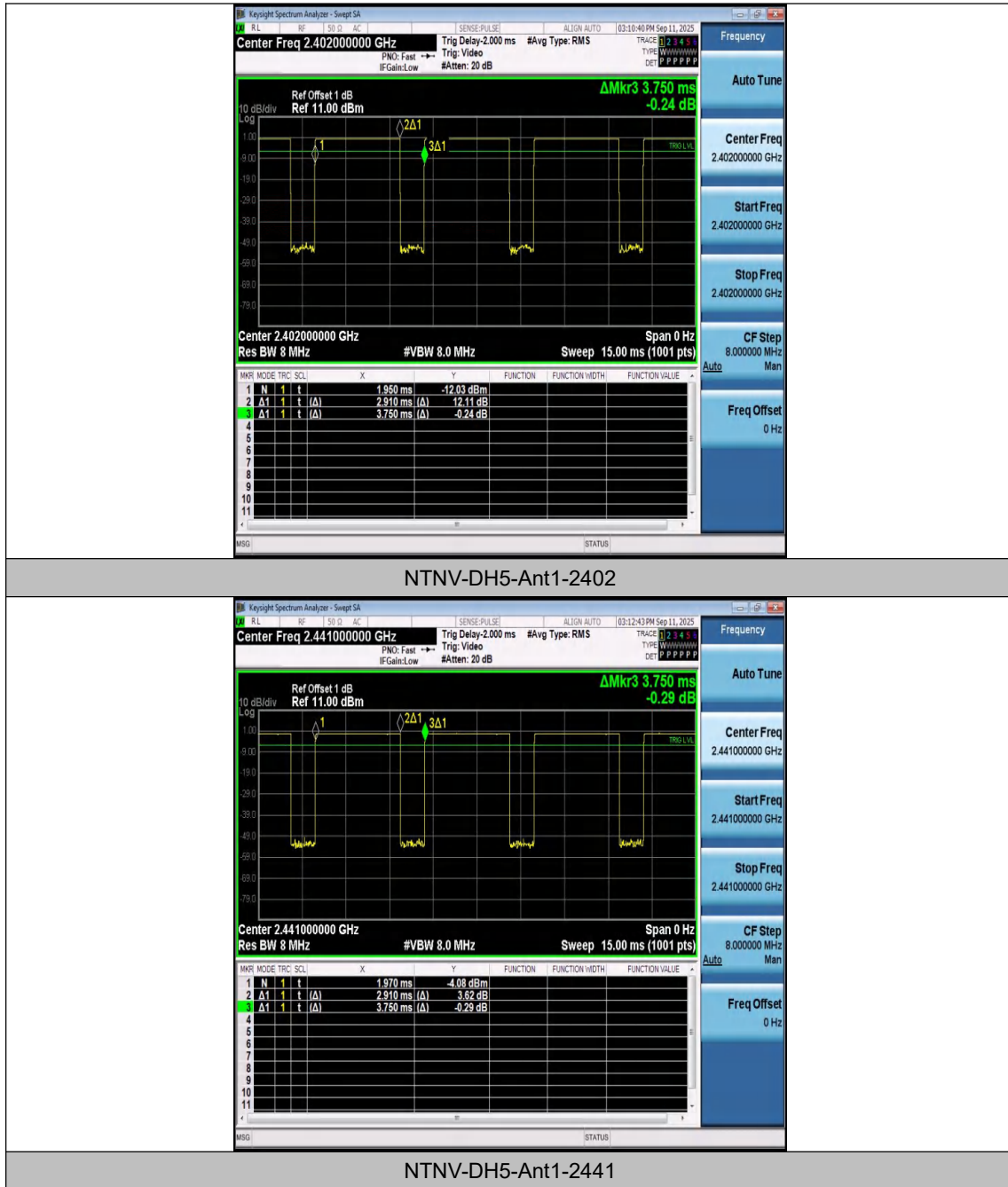
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.91	3.75	77.60	1.10
DH5	Ant1	2441	2.91	3.75	77.60	1.10
DH5	Ant1	2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.93	3.75	78.13	1.07
2DH5	Ant1	2441	2.92	3.75	77.87	1.09
2DH5	Ant1	2480	2.93	3.75	78.13	1.07
3DH5	Ant1	2402	2.91	3.75	77.60	1.10
3DH5	Ant1	2441	2.91	3.75	77.60	1.10
3DH5	Ant1	2480	2.92	3.75	77.87	1.09

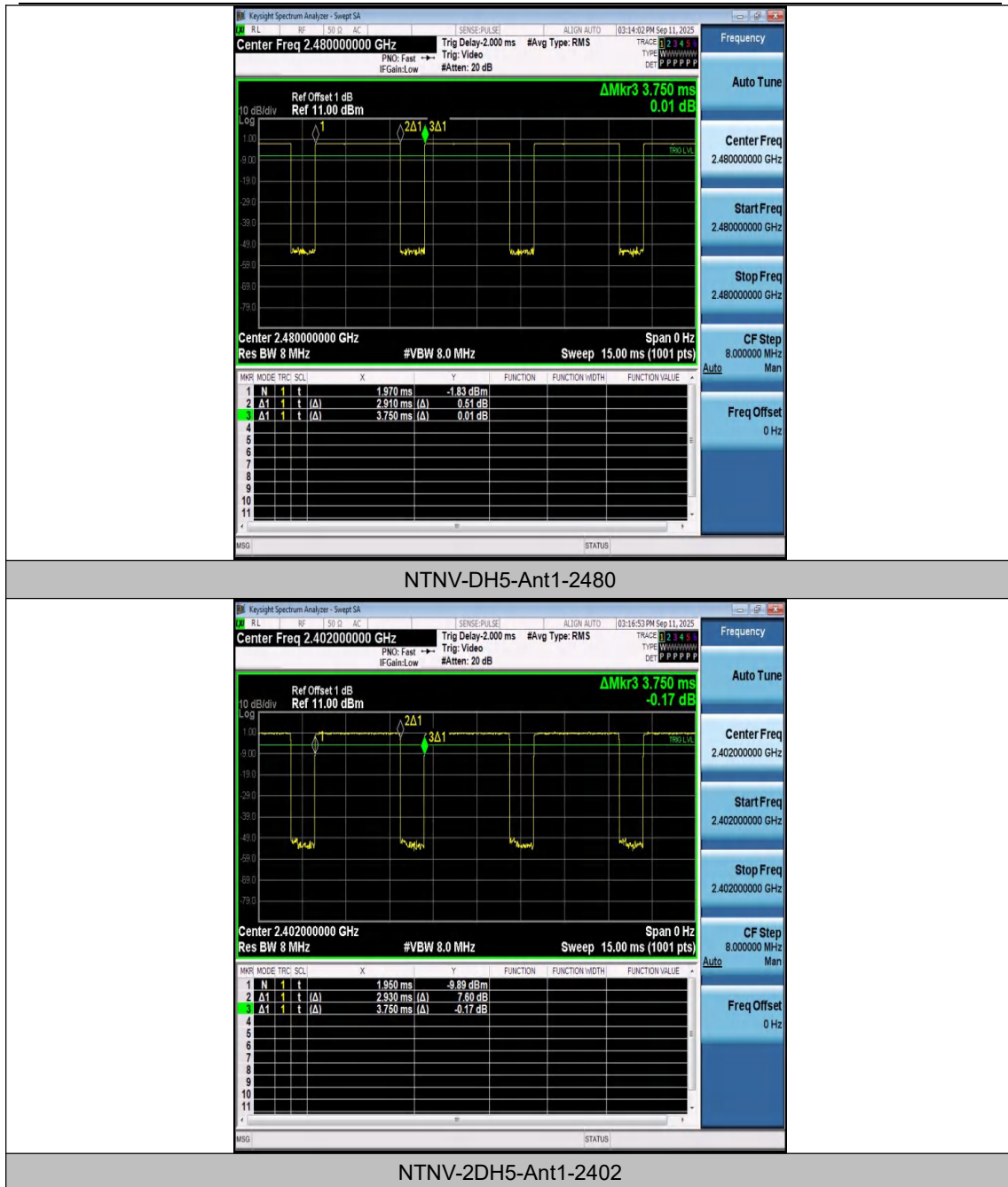
Test Graphs



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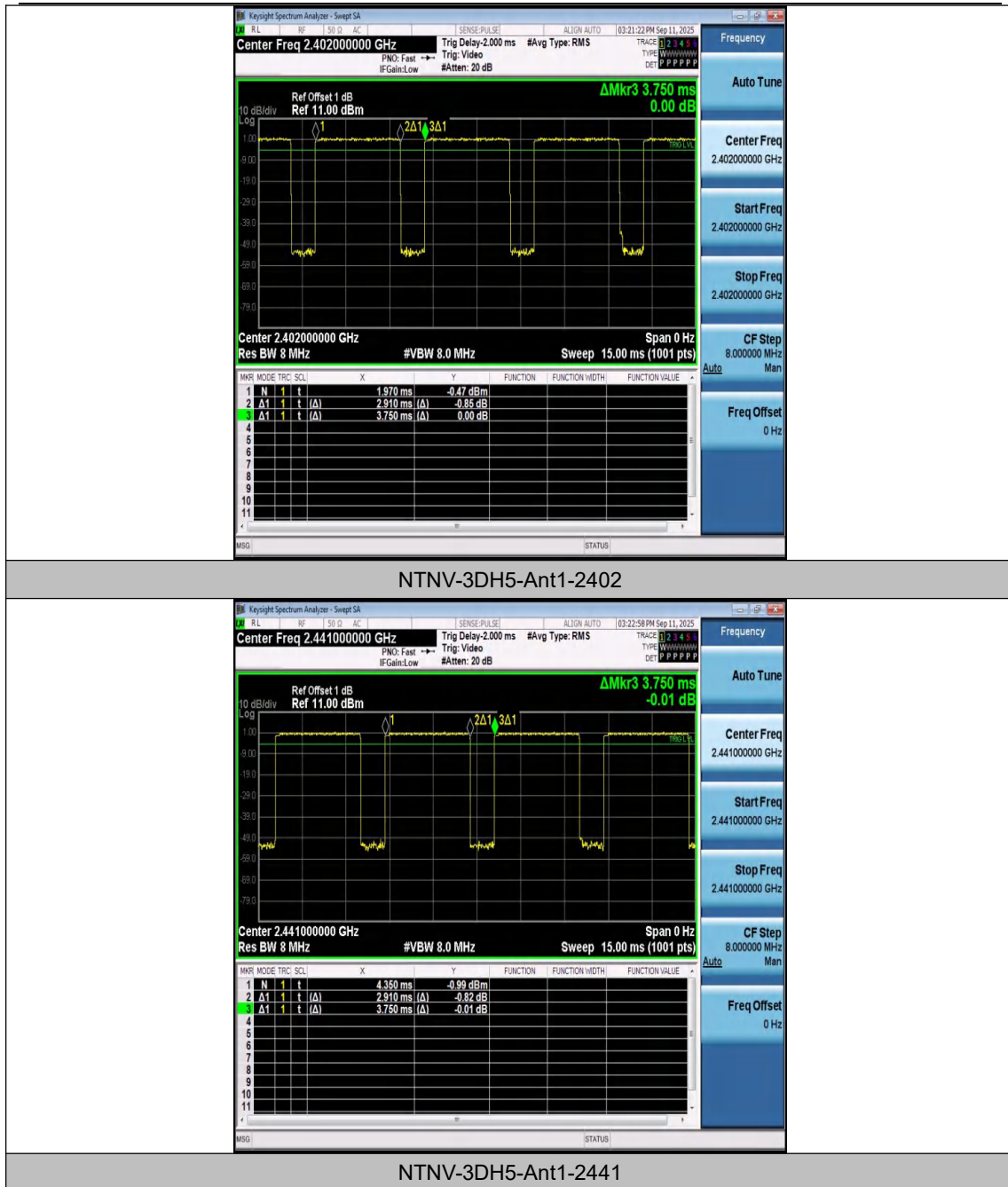


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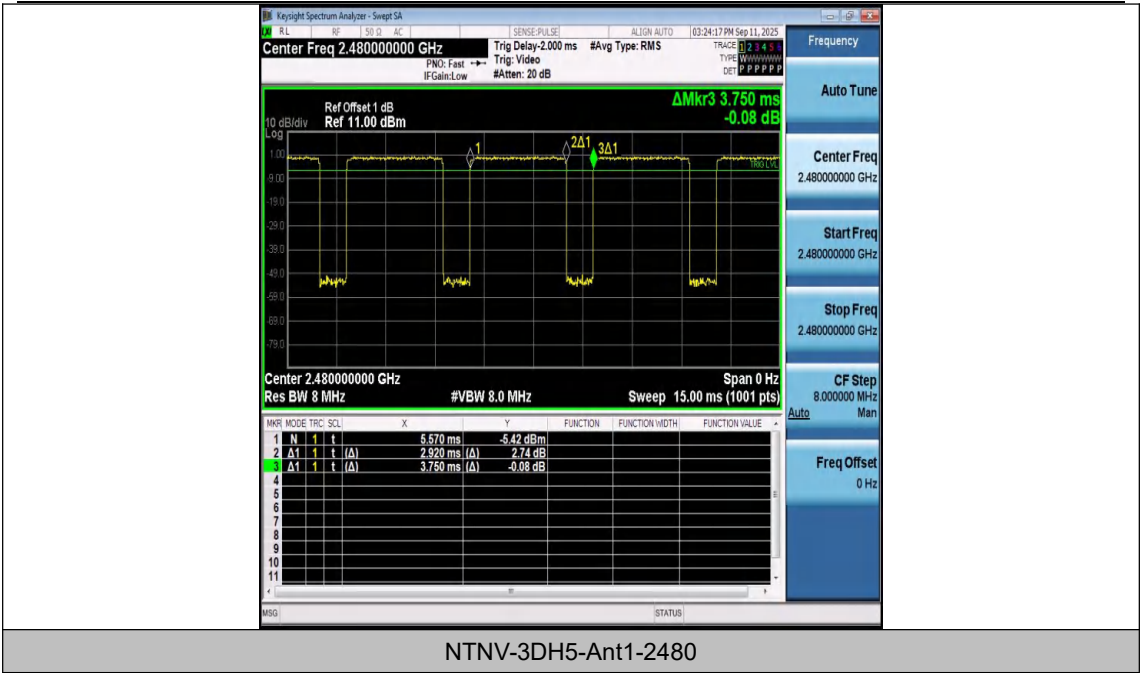




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NTNV-3DH5-Ant1-2480

---End---