

Appendix Test Data

Report No.:	1812C50290012501	Test Sample No.:	1-2-2
Start Test Date:	2025-06-19	Finish Test Date:	2025-06-19
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.9°C	Relative Humidity:	51%
Pressure:	101kPa		

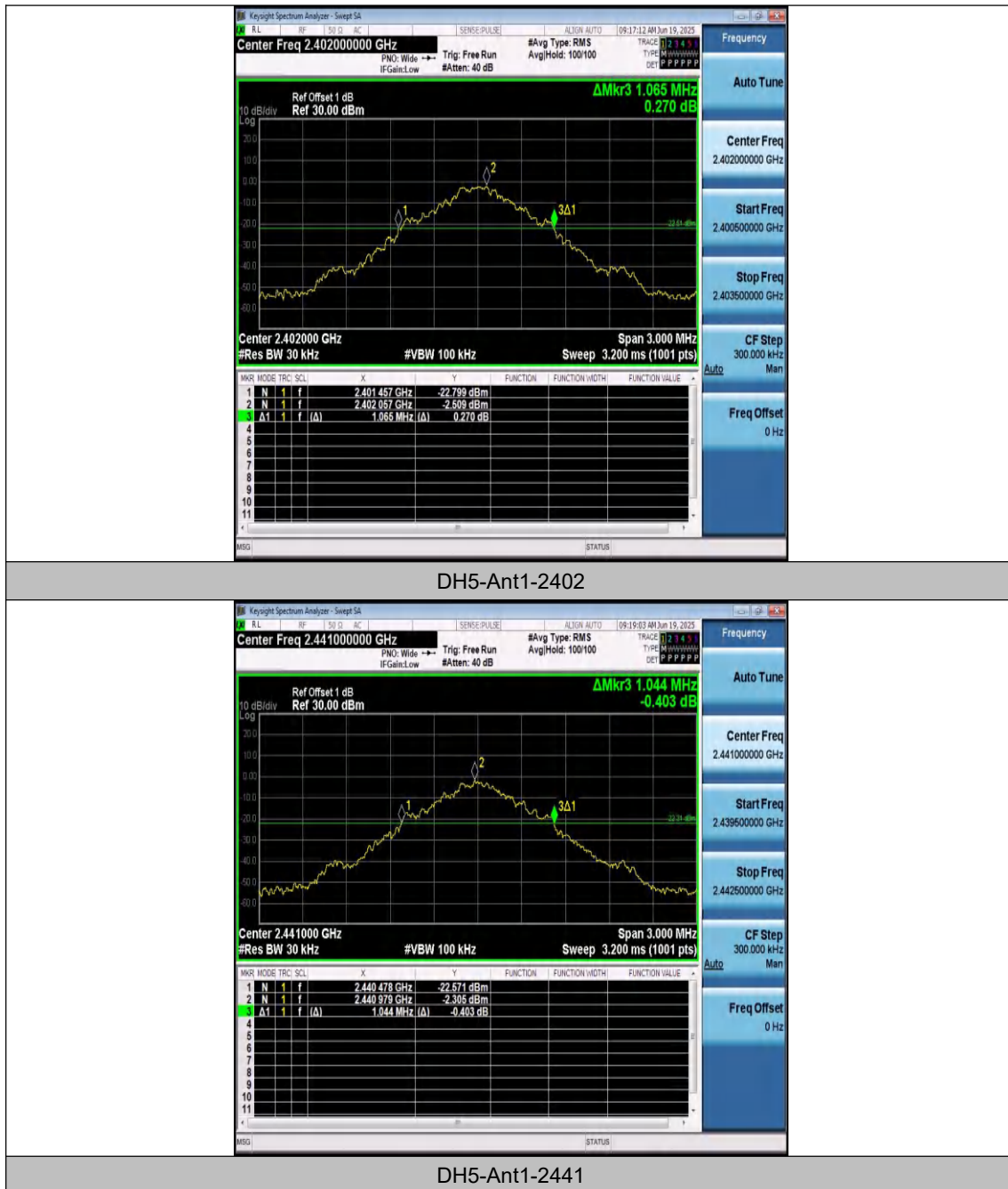
Appendix A: 20dB Bandwidth

Test Result

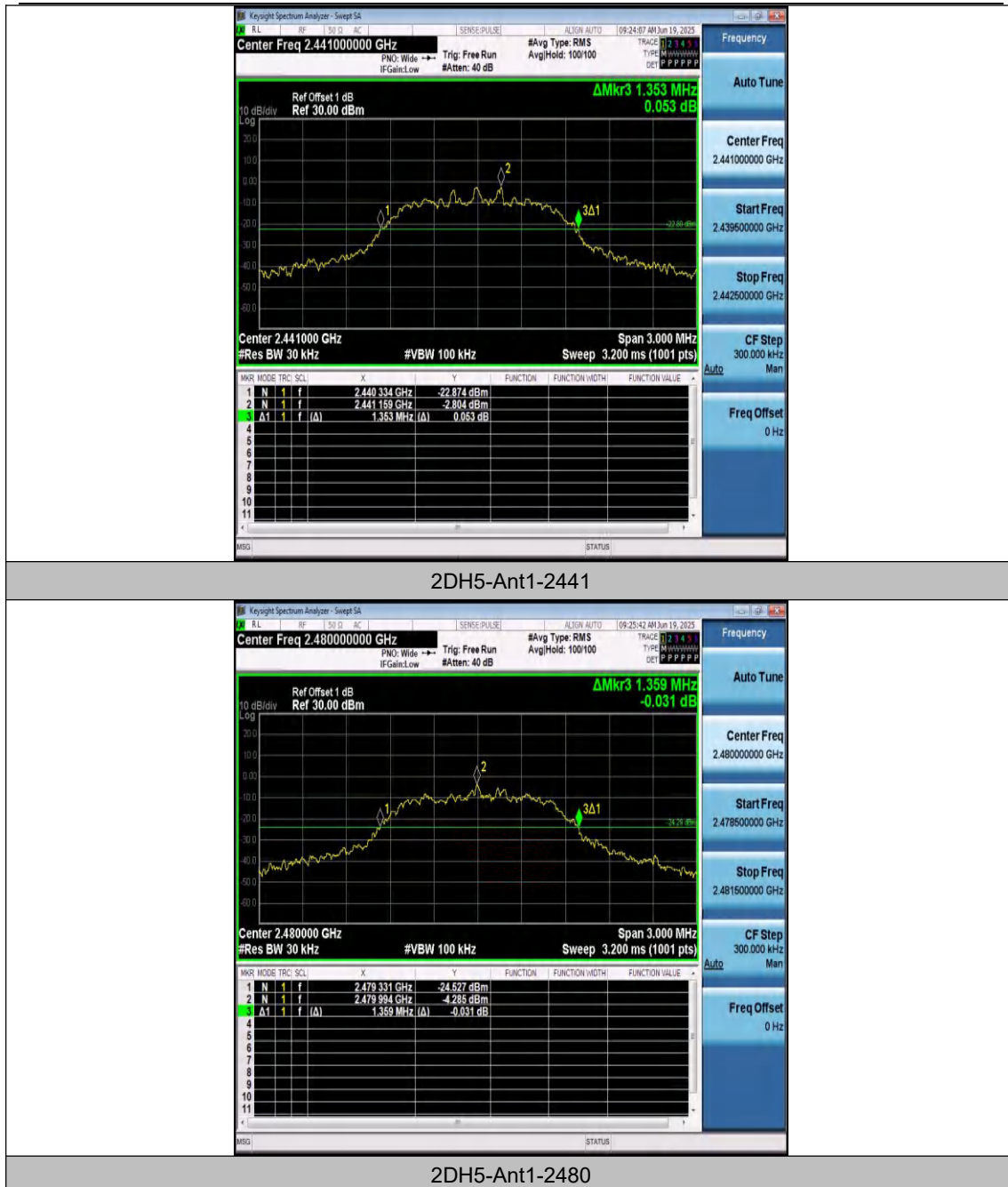
Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.065	2401.457	2402.522	---	---
DH5	Ant1	2441	1.044	2440.478	2441.522	---	---
DH5	Ant1	2480	1.050	2479.475	2480.525	---	---
2DH5	Ant1	2402	1.353	2401.328	2402.681	---	---
2DH5	Ant1	2441	1.353	2440.334	2441.687	---	---
2DH5	Ant1	2480	1.359	2479.331	2480.690	---	---
3DH5	Ant1	2402	1.314	2401.346	2402.660	---	---
3DH5	Ant1	2441	1.305	2440.349	2441.654	---	---
3DH5	Ant1	2480	1.296	2479.346	2480.642	---	---



Test Graphs







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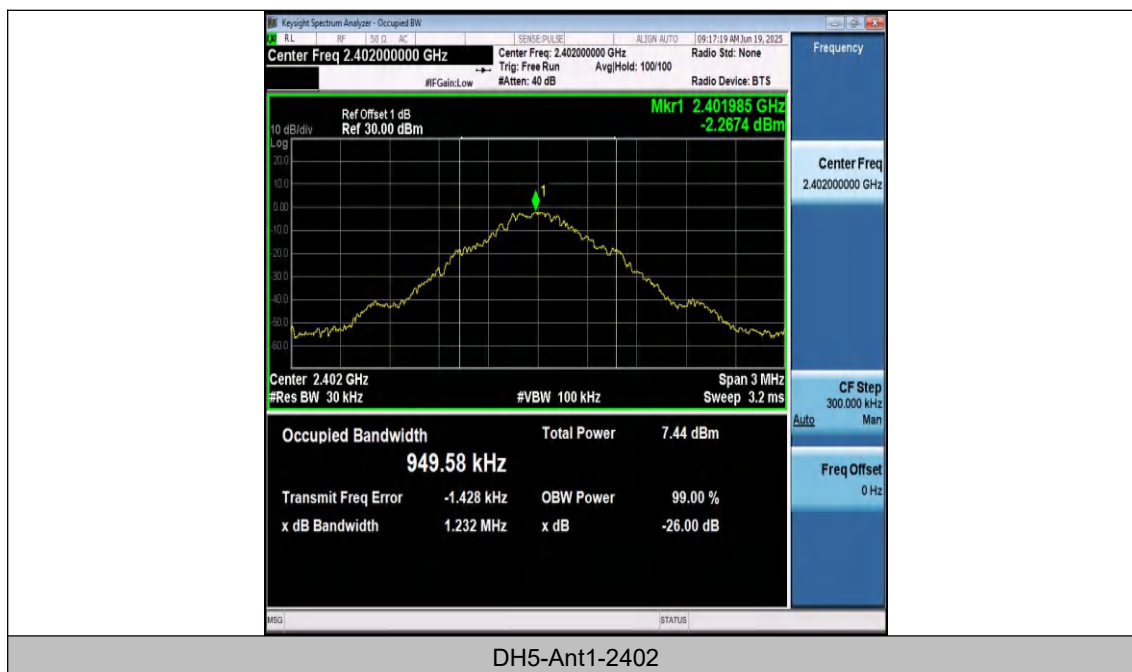
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Appendix B: 99% Occupied Bandwidth

Test Result

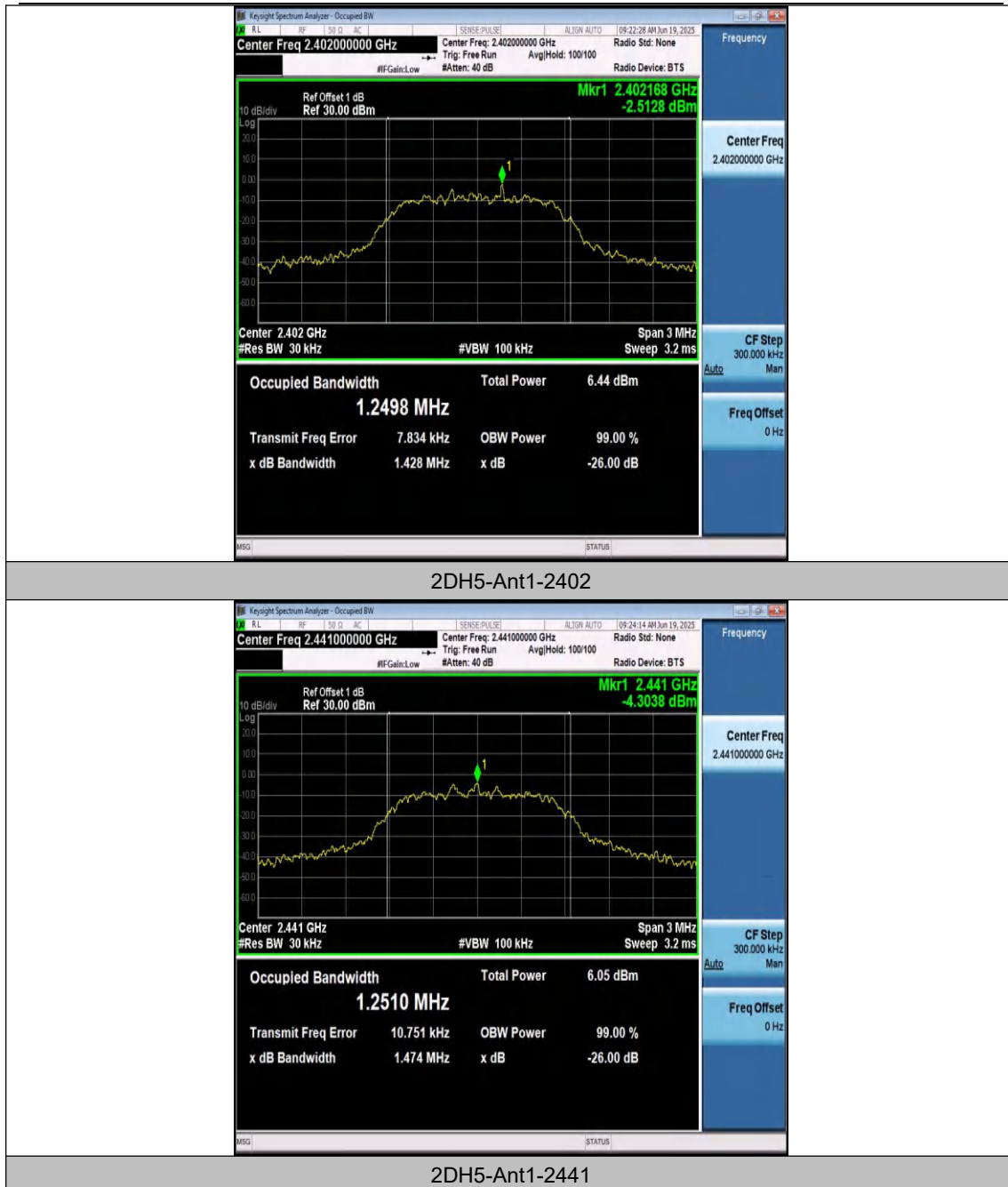
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.94958	2401.5238	2402.4734	---	---
DH5	Ant1	2441	0.98182	2440.5068	2441.4887	---	---
DH5	Ant1	2480	0.98475	2479.5046	2480.4894	---	---
2DH5	Ant1	2402	1.2498	2401.3829	2402.6327	---	---
2DH5	Ant1	2441	1.2510	2440.3853	2441.6363	---	---
2DH5	Ant1	2480	1.2642	2479.3744	2480.6386	---	---
3DH5	Ant1	2402	1.2344	2401.3786	2402.6130	---	---
3DH5	Ant1	2441	1.2331	2440.3814	2441.6145	---	---
3DH5	Ant1	2480	1.2383	2479.3796	2480.6179	---	---

Test Graphs



DH5-Ant1-2402







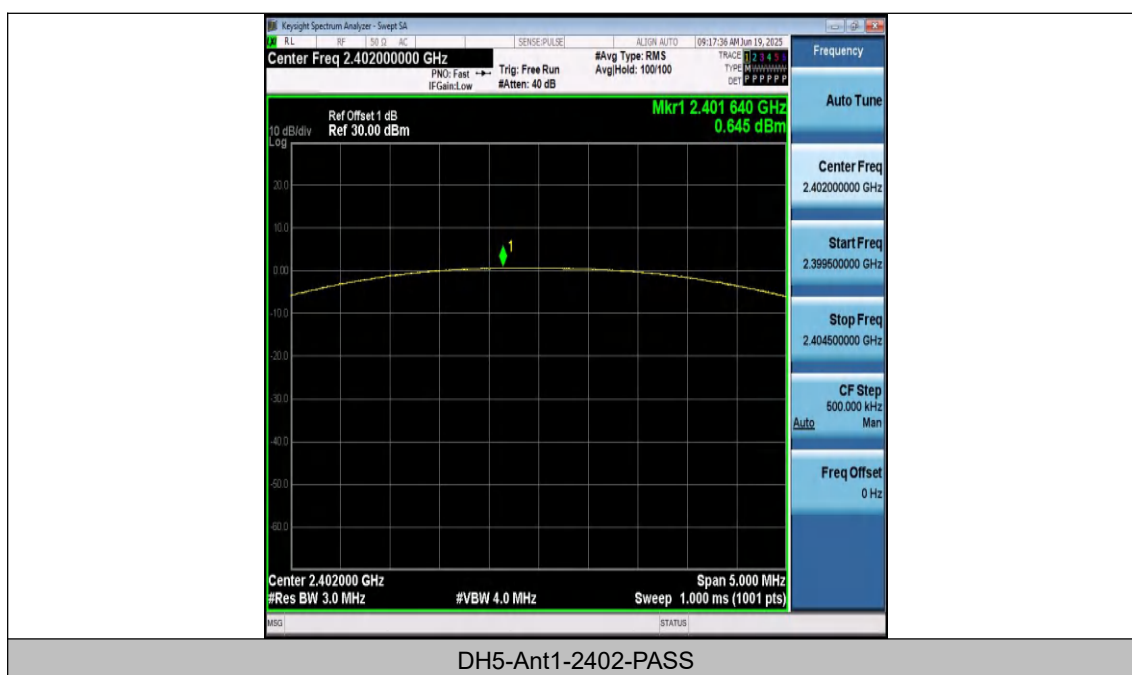


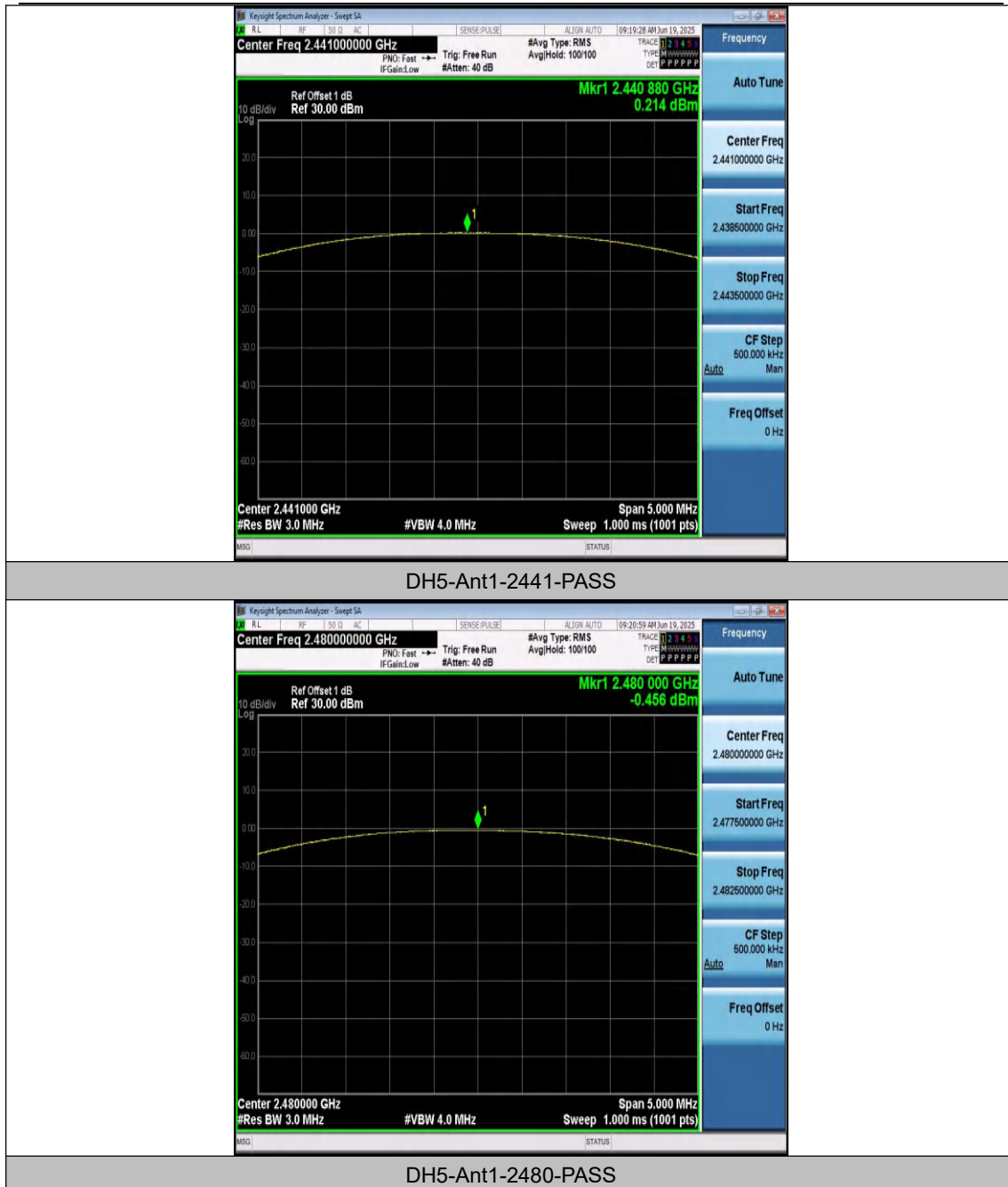
Appendix C: Maximum Conducted Output Power

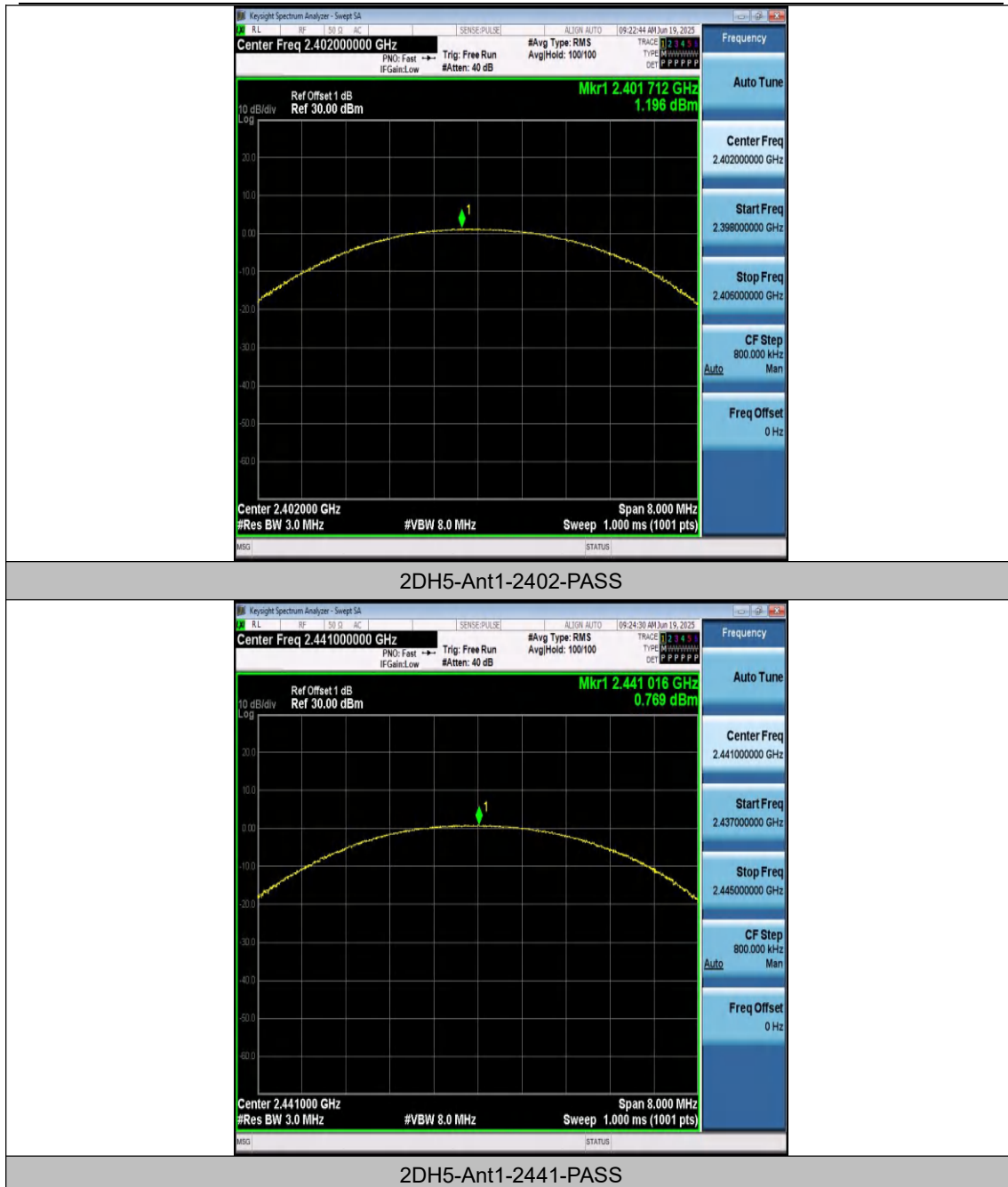
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.65	≤30	PASS
DH5	Ant1	2441	0.21	≤30	PASS
DH5	Ant1	2480	-0.46	≤30	PASS
2DH5	Ant1	2402	1.20	≤21	PASS
2DH5	Ant1	2441	0.77	≤21	PASS
2DH5	Ant1	2480	0.21	≤21	PASS
3DH5	Ant1	2402	1.46	≤21	PASS
3DH5	Ant1	2441	1.09	≤21	PASS
3DH5	Ant1	2480	0.47	≤21	PASS

Test Graphs



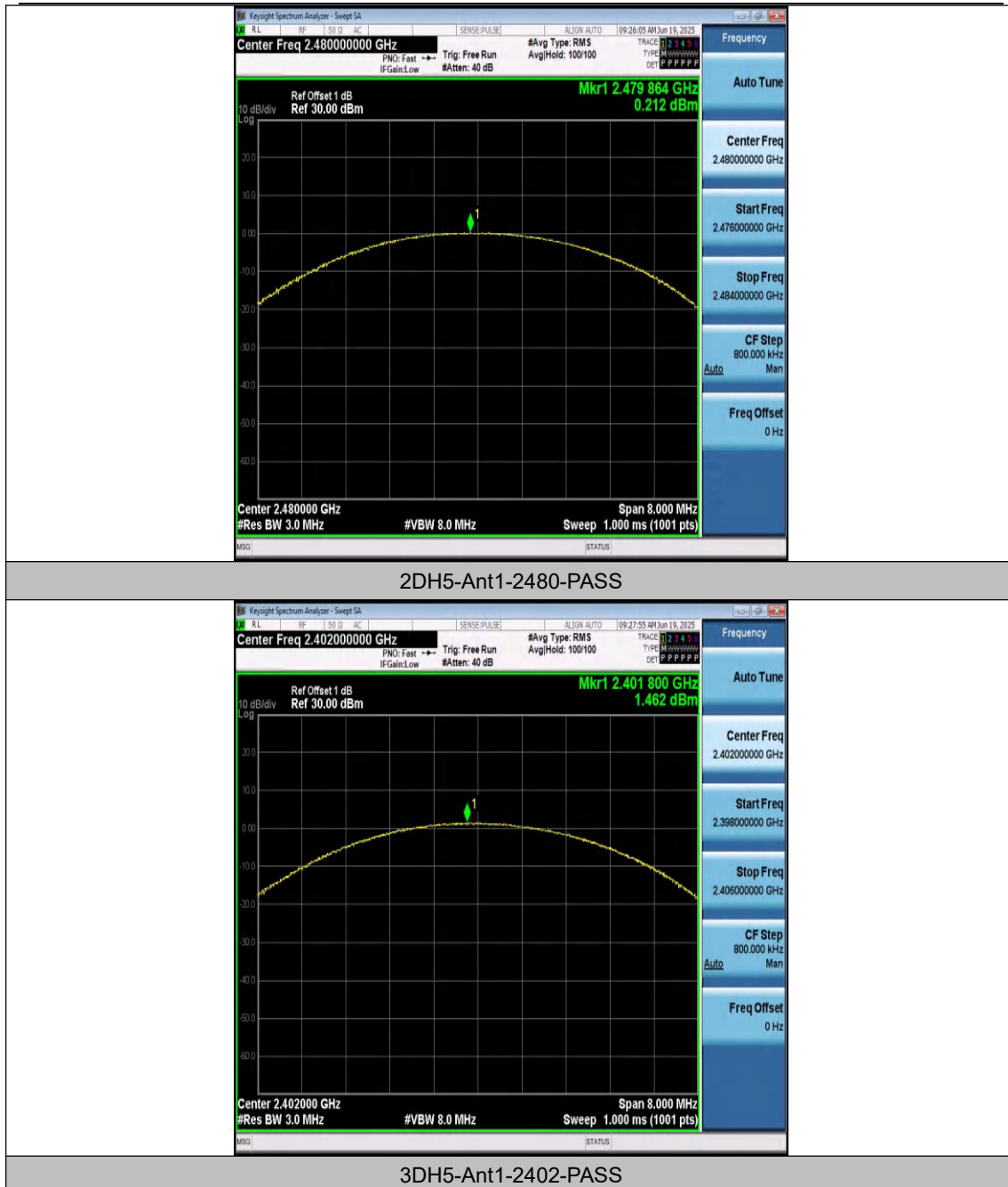


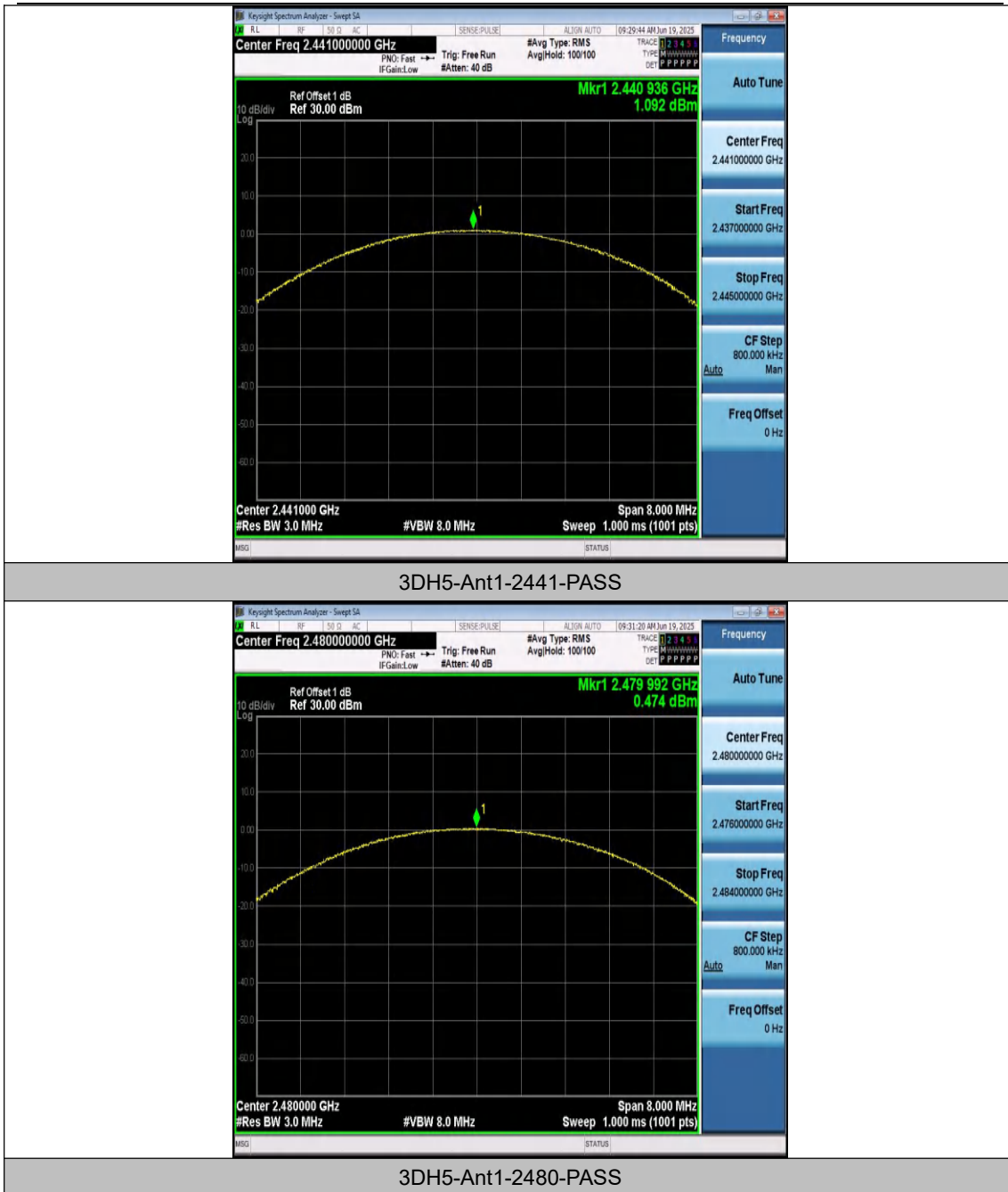


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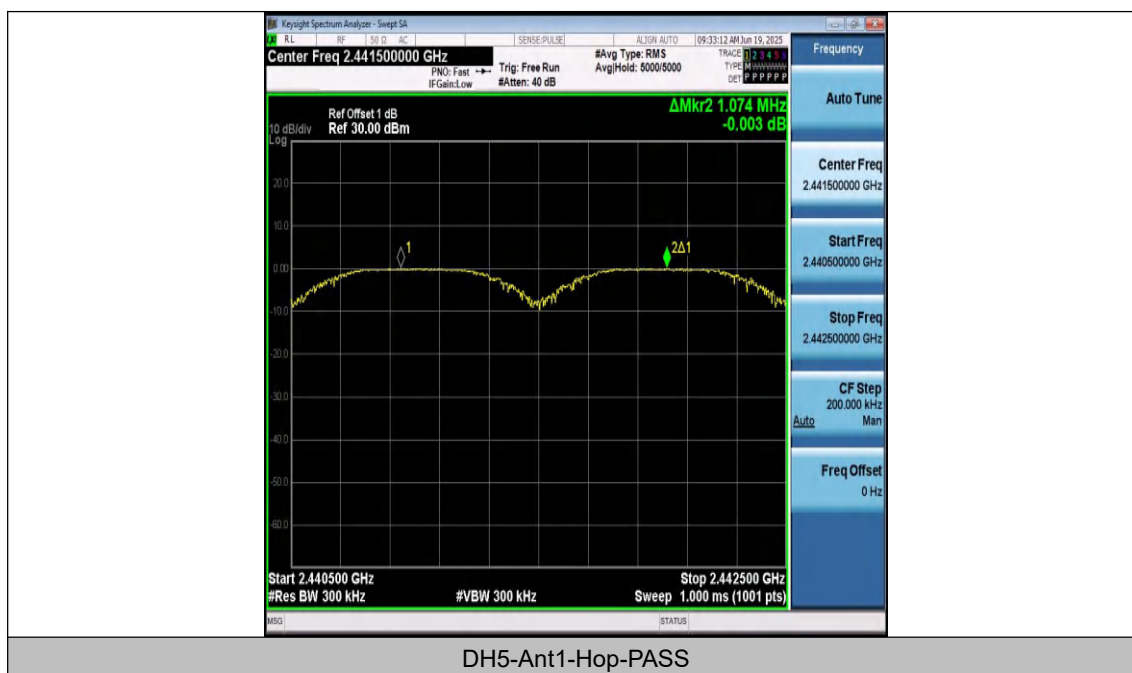
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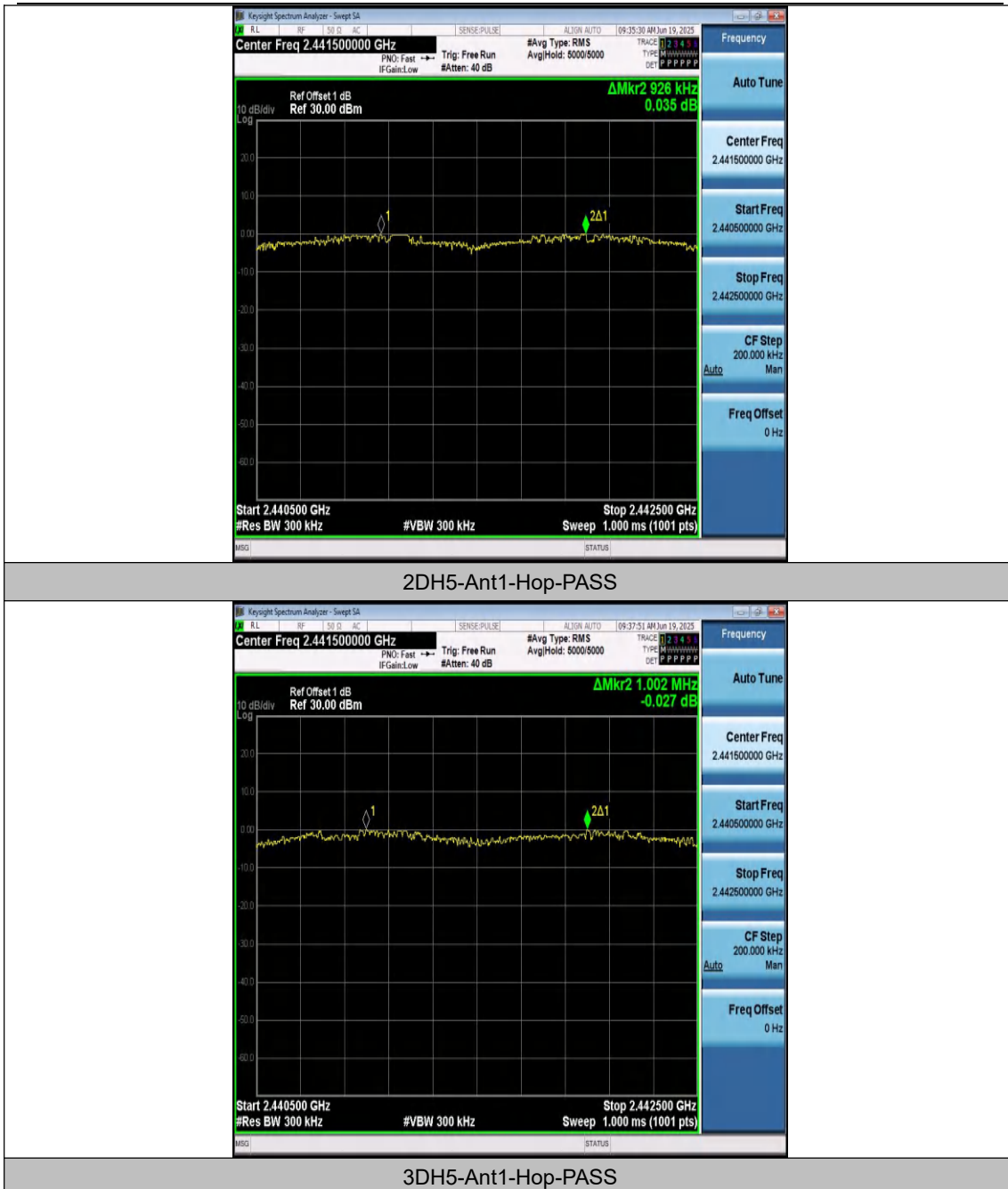
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.074	≥ 1.065	PASS
2DH5	Ant1	Hop	0.926	≥ 0.906	PASS
3DH5	Ant1	Hop	1.002	≥ 0.876	PASS

Test Graphs





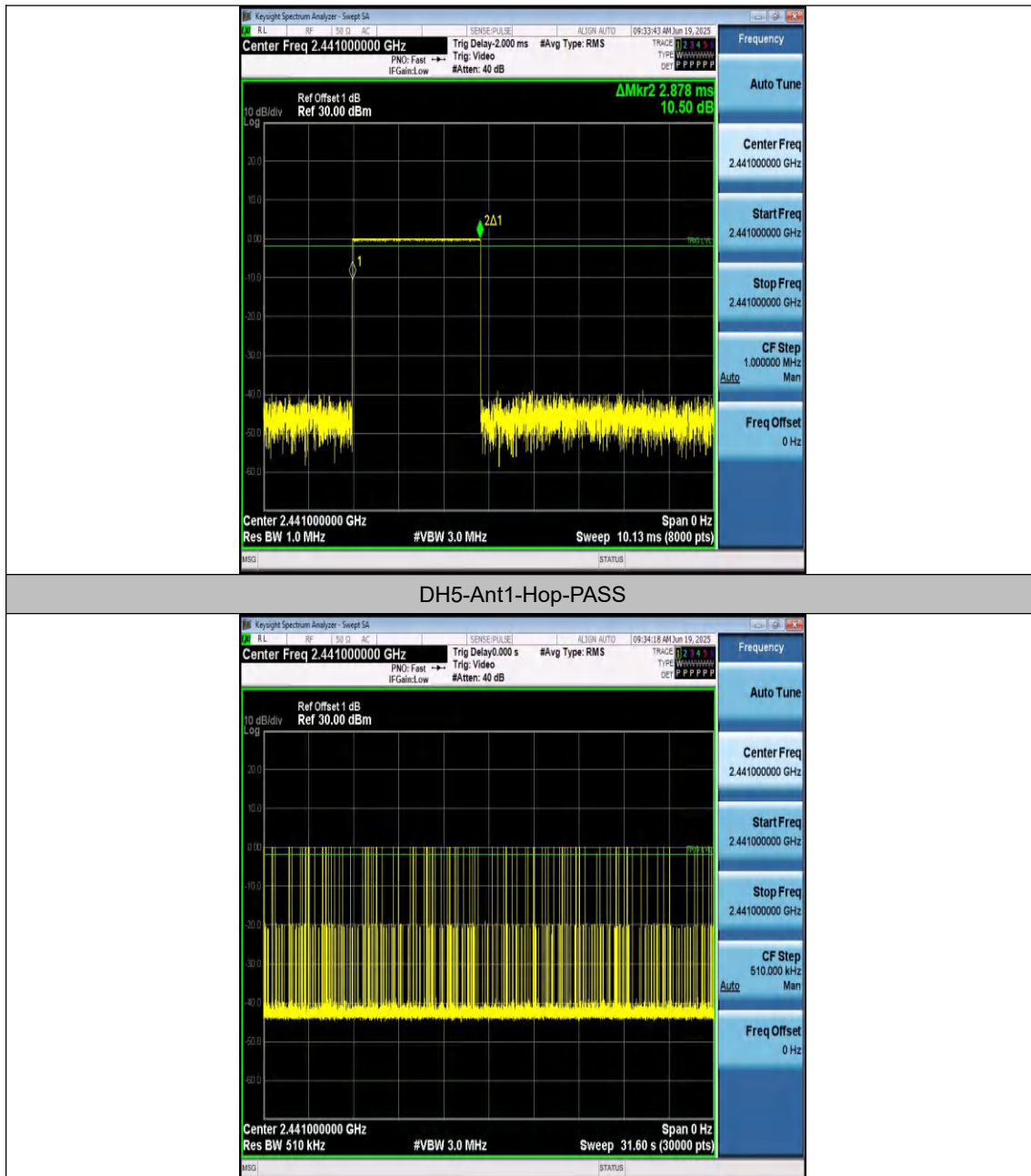
Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.878	105	0.302	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106	0.306	≤0.4	PASS
3DH5	Ant1	Hop	2.885	92	0.265	≤0.4	PASS



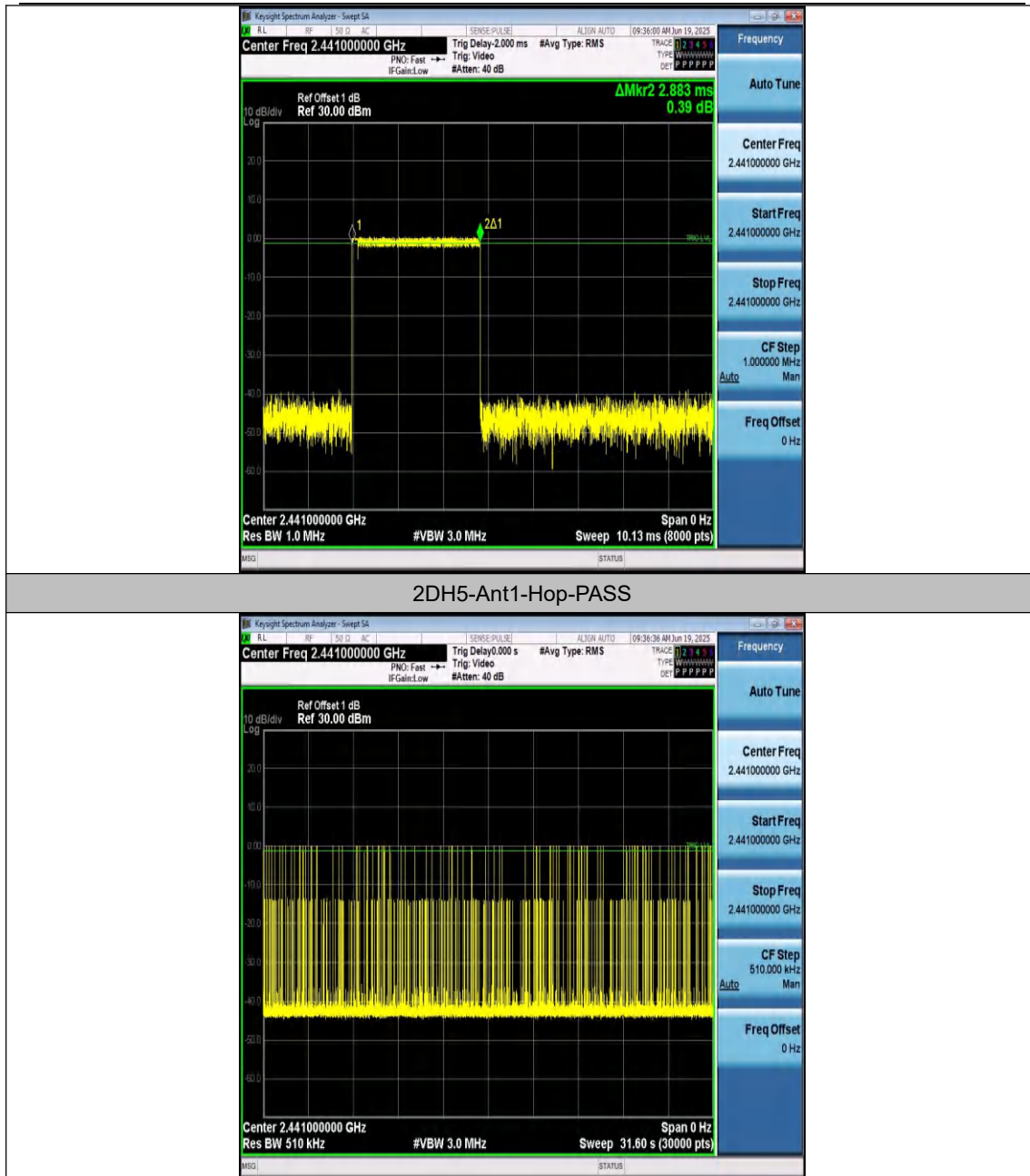
Test Graphs



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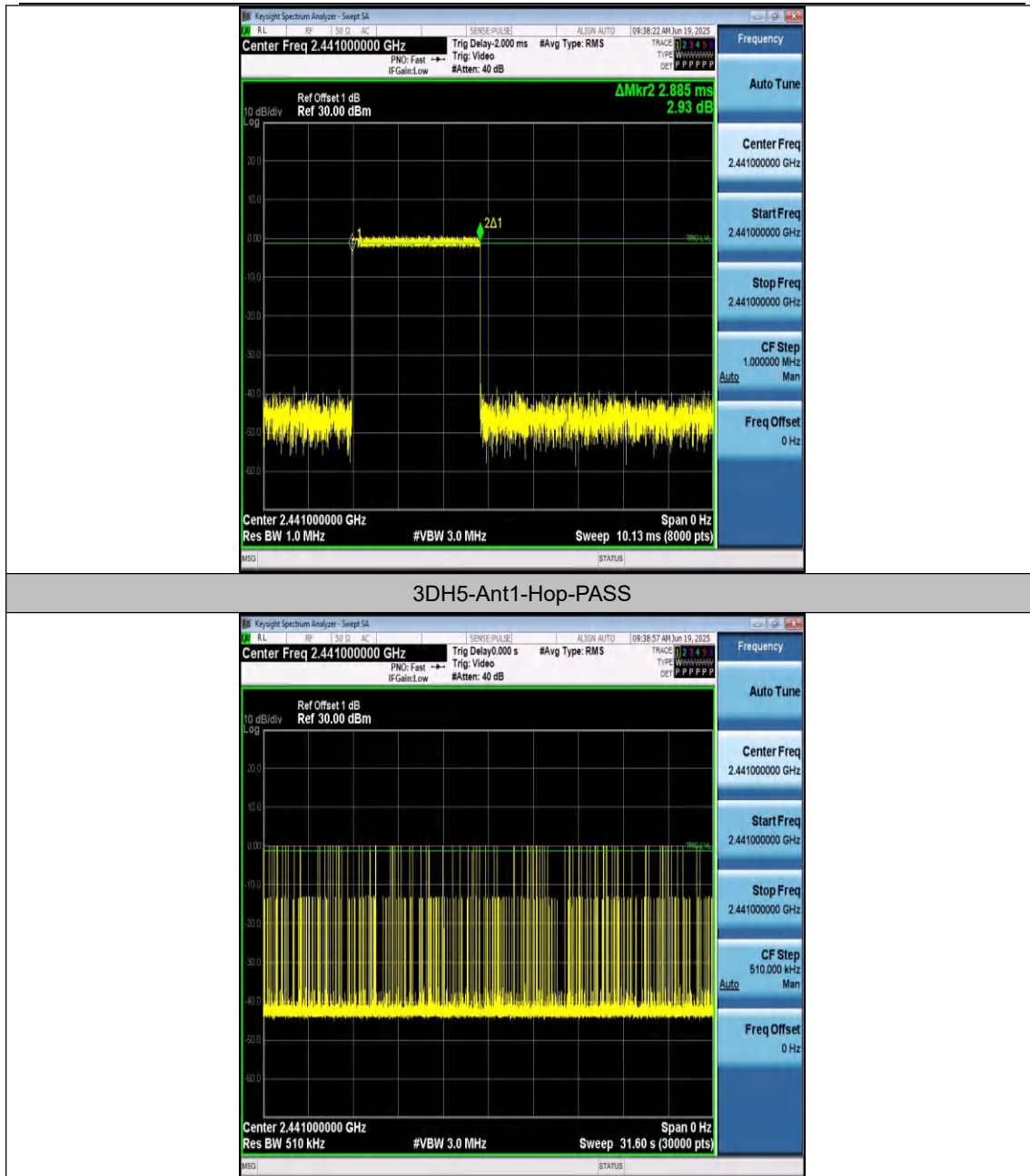


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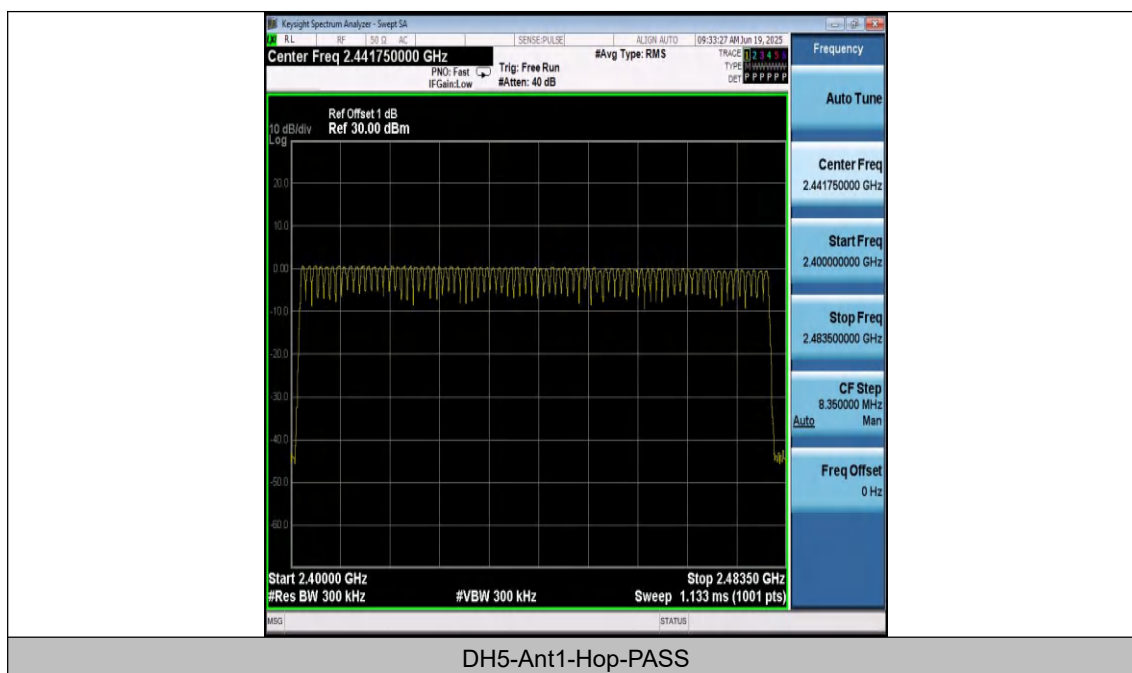


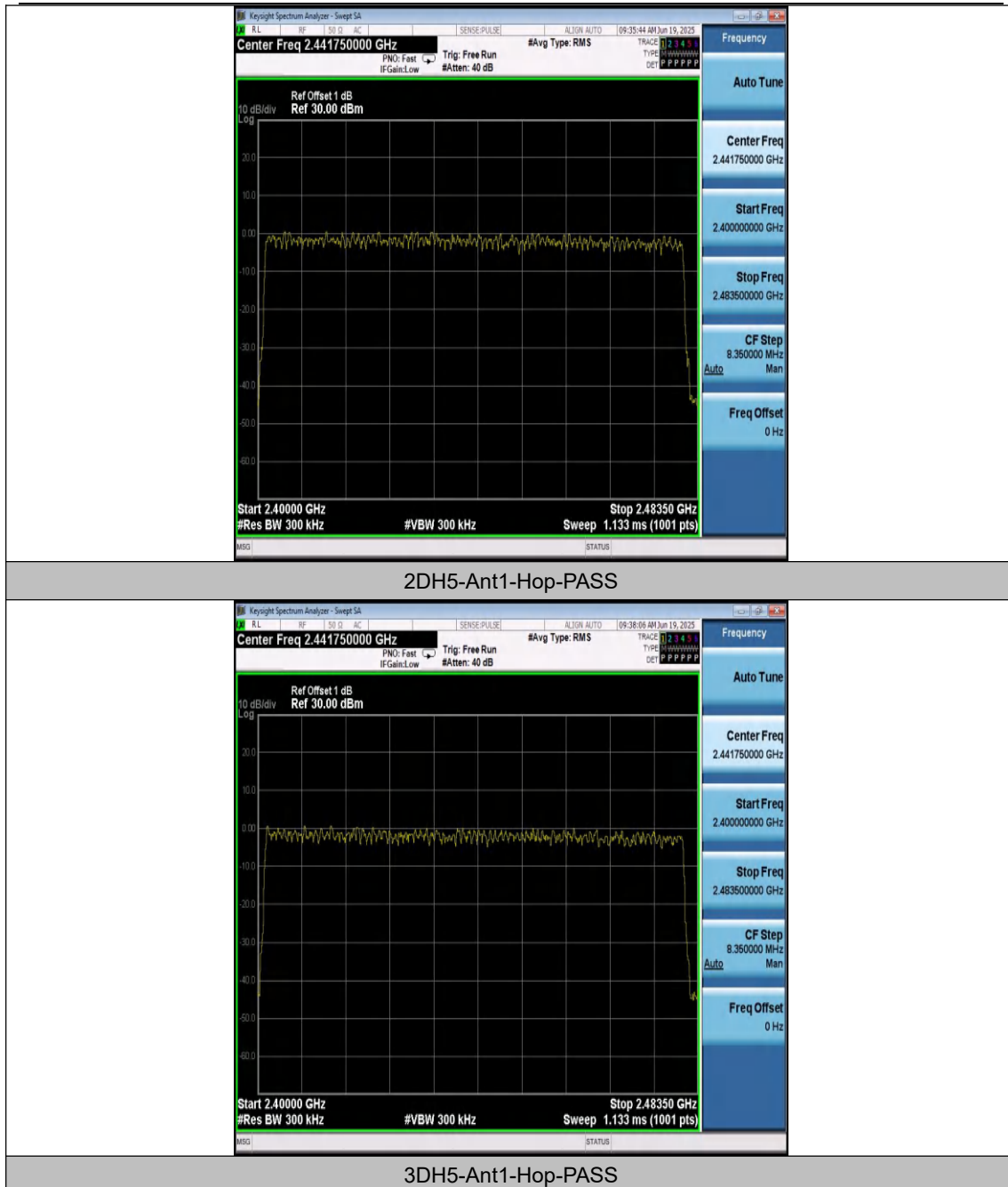
Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥75	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs





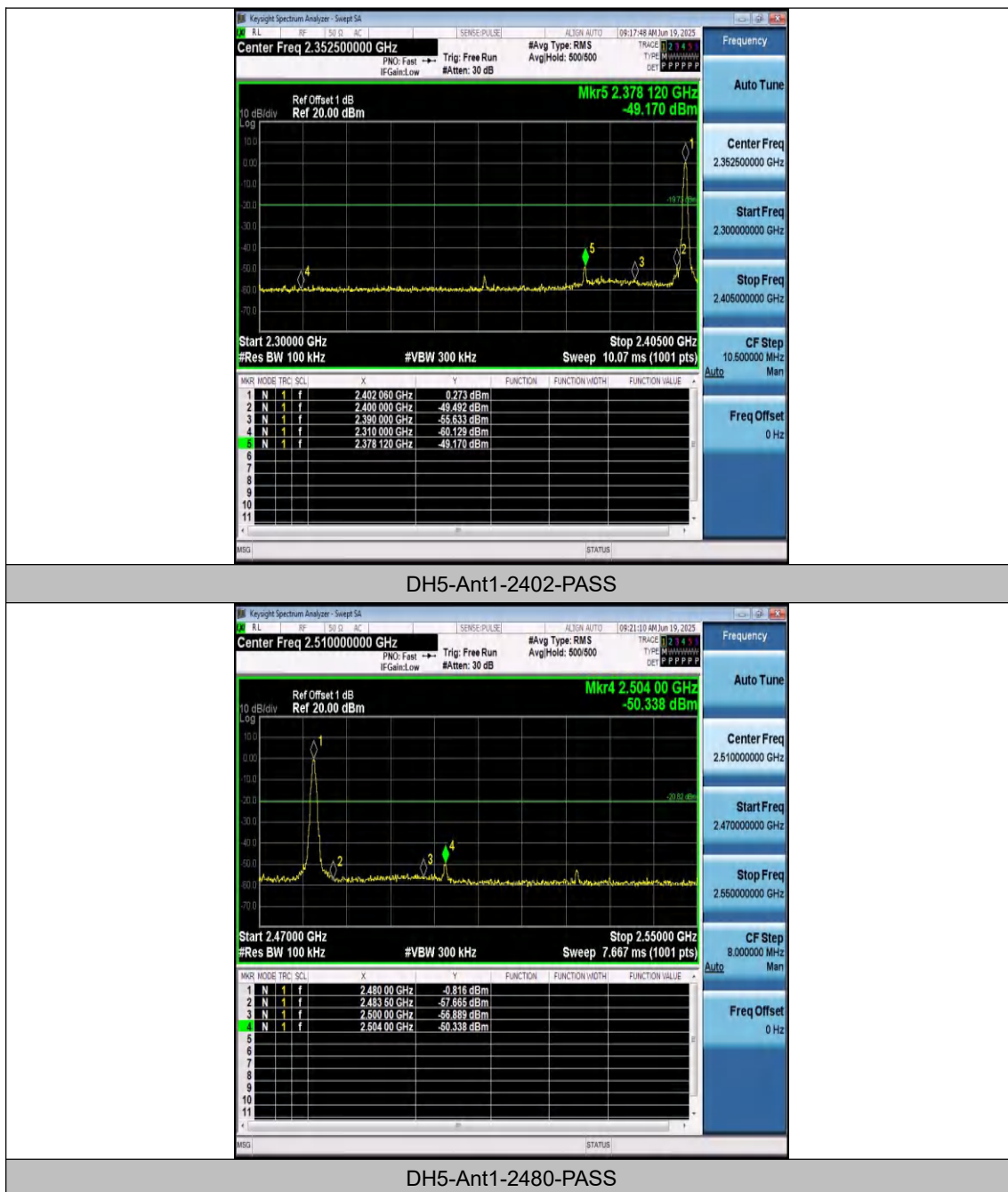
Appendix G: Conducted Band edge

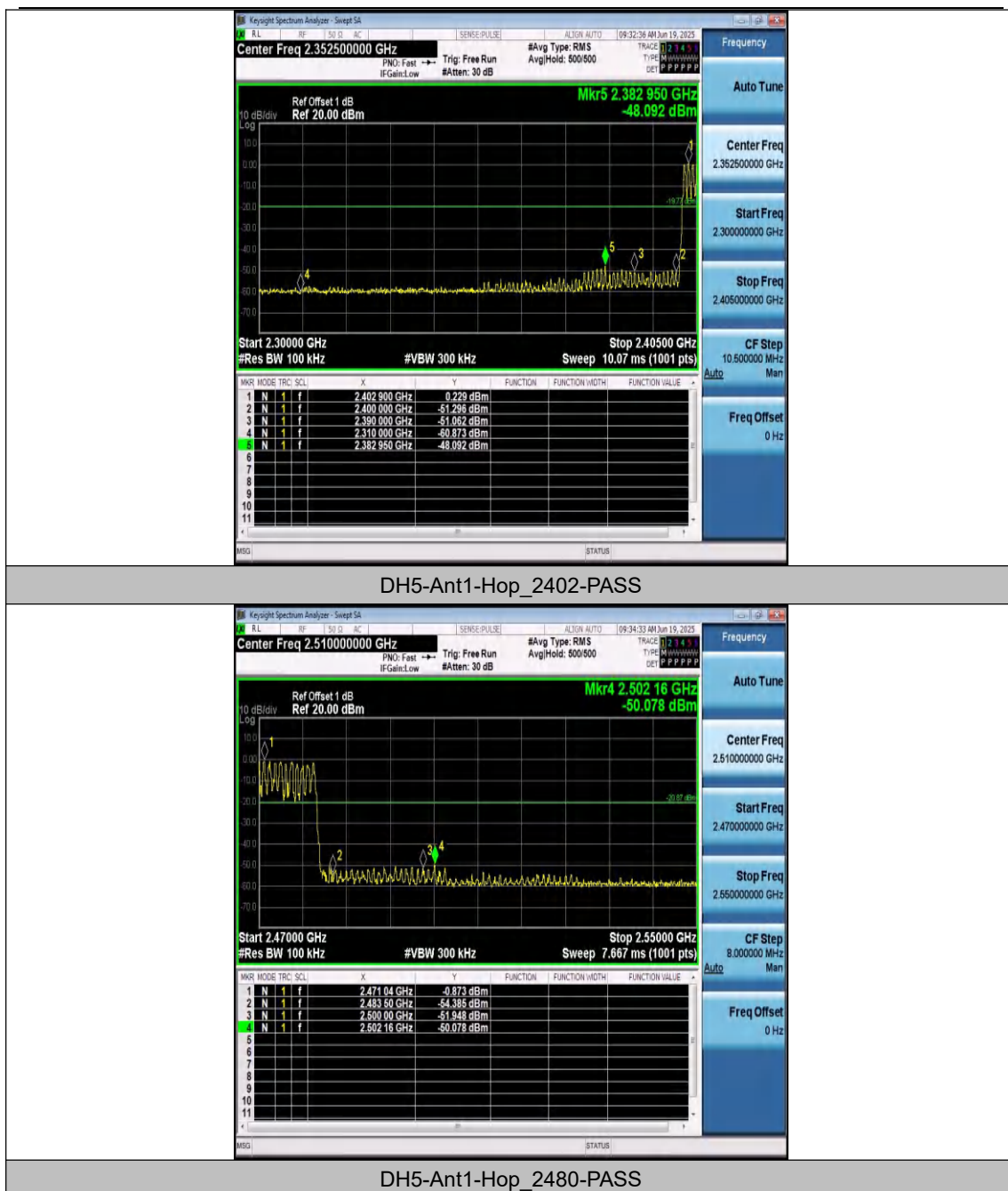
Test Result

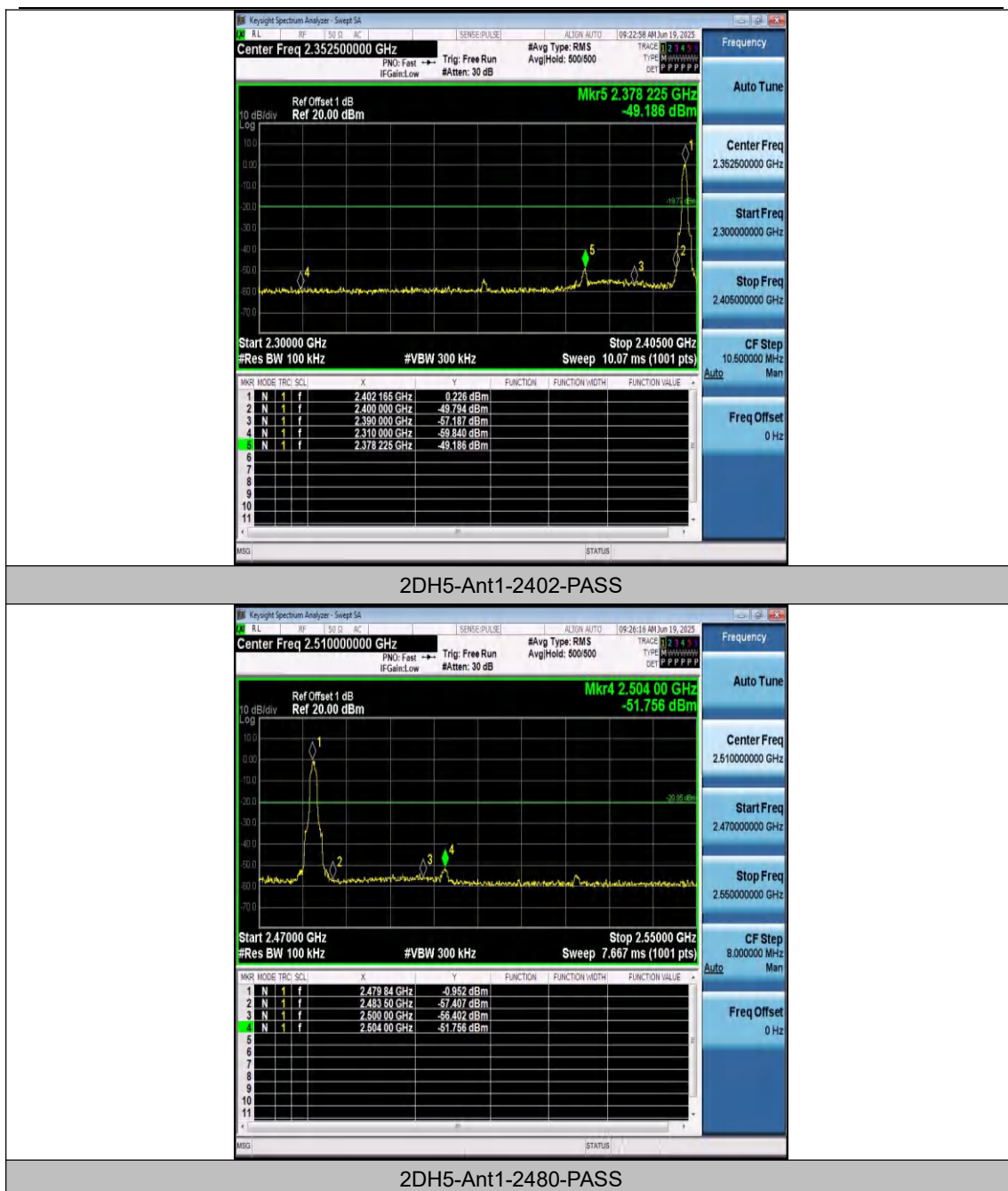
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.27	-49.17	≤ -19.73	PASS
DH5	Ant1	High	2480	-0.82	-50.34	≤ -20.82	PASS
DH5	Ant1	Low	Hop_2402	0.23	-48.09	≤ -19.77	PASS
DH5	Ant1	High	Hop_2480	-0.87	-50.08	≤ -20.87	PASS
2DH5	Ant1	Low	2402	0.23	-49.19	≤ -19.77	PASS
2DH5	Ant1	High	2480	-0.95	-51.76	≤ -20.95	PASS
2DH5	Ant1	Low	Hop_2402	-3.04	-50.21	≤ -23.04	PASS
2DH5	Ant1	High	Hop_2480	-3.46	-53.2	≤ -23.46	PASS
3DH5	Ant1	Low	2402	0.30	-49.46	≤ -19.7	PASS
3DH5	Ant1	High	2480	-0.99	-51.7	≤ -20.99	PASS
3DH5	Ant1	Low	Hop_2402	-0.61	-50.34	≤ -20.61	PASS
3DH5	Ant1	High	Hop_2480	-1.46	-50.93	≤ -21.46	PASS

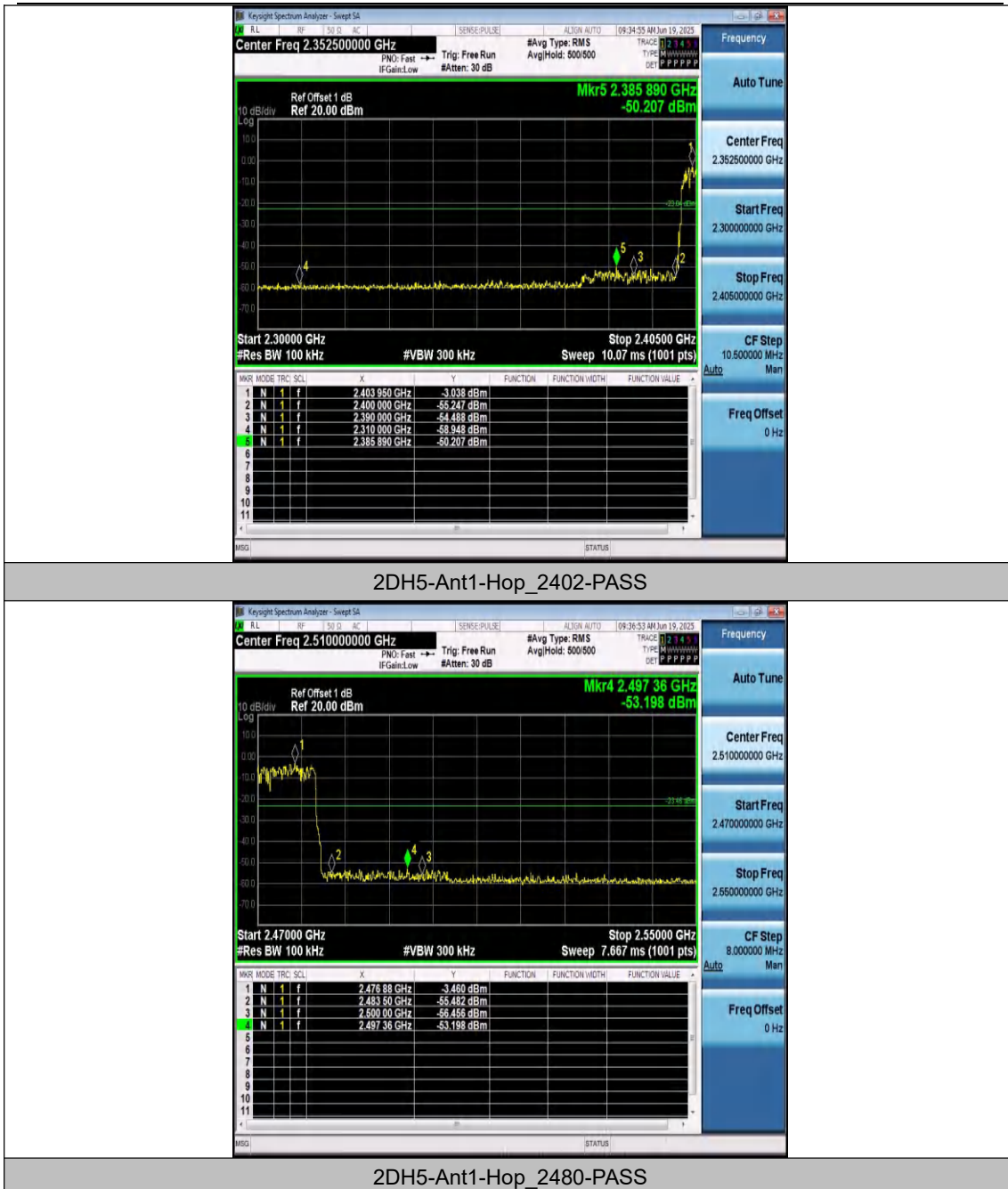
Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

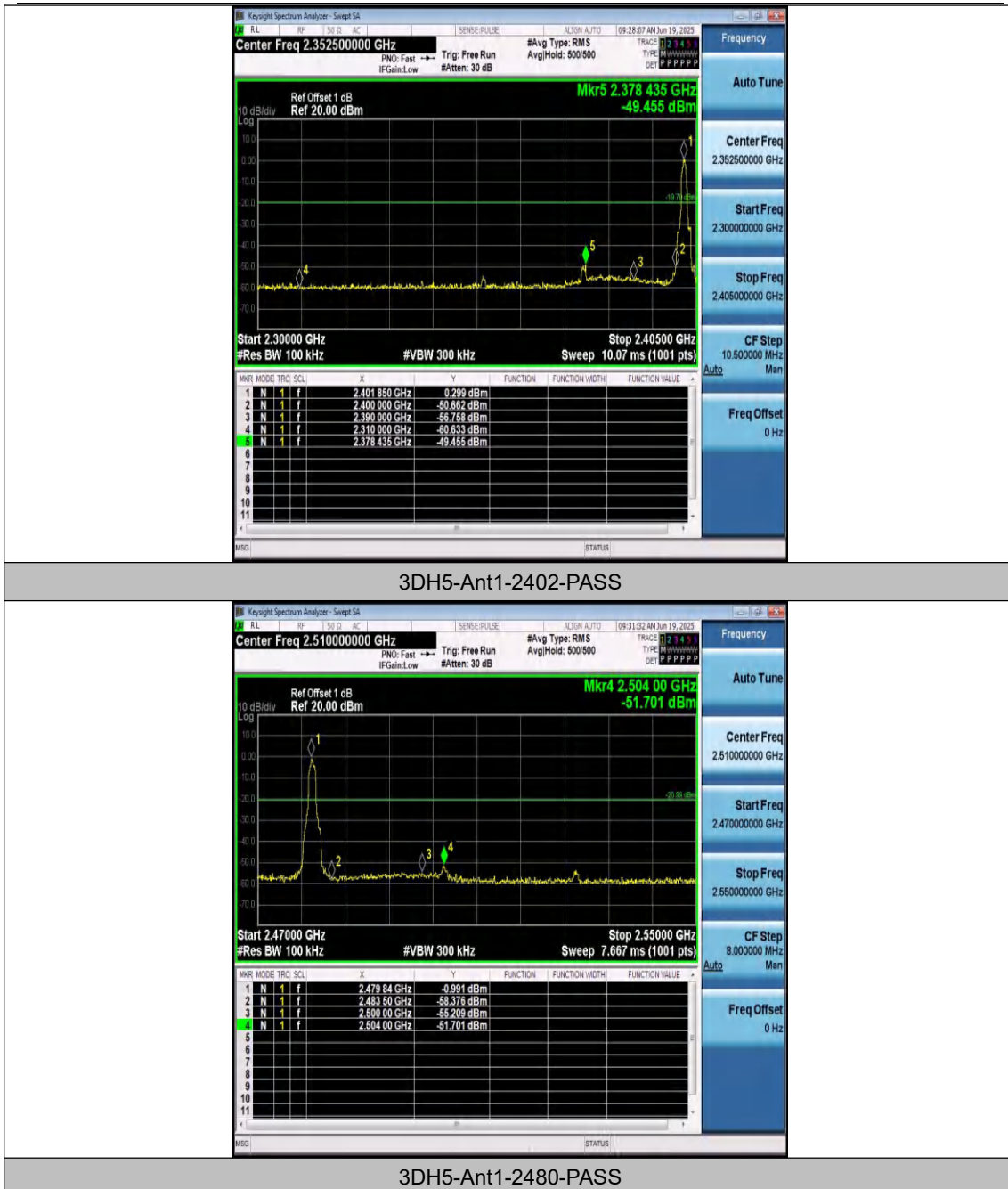
Test Graphs

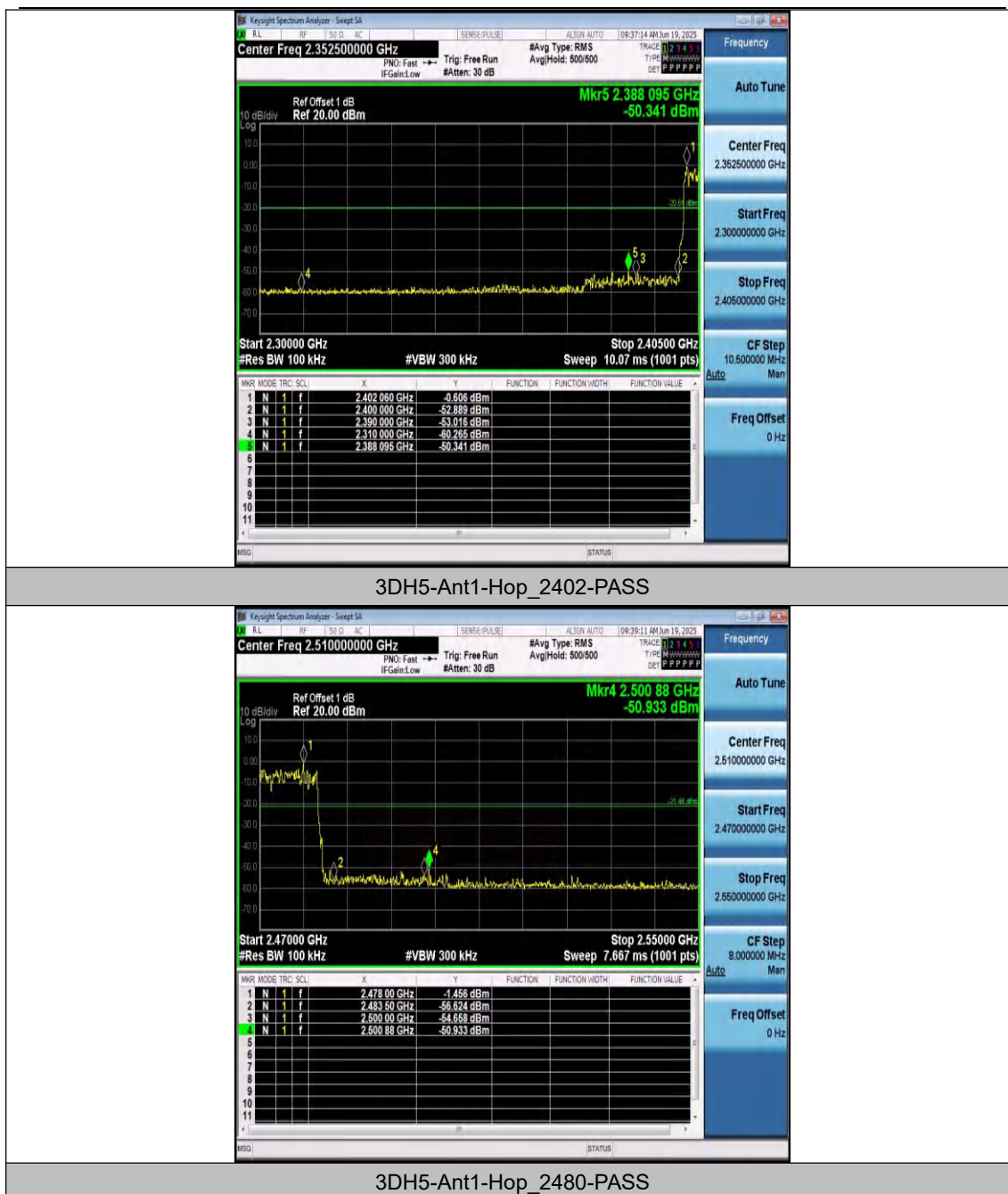












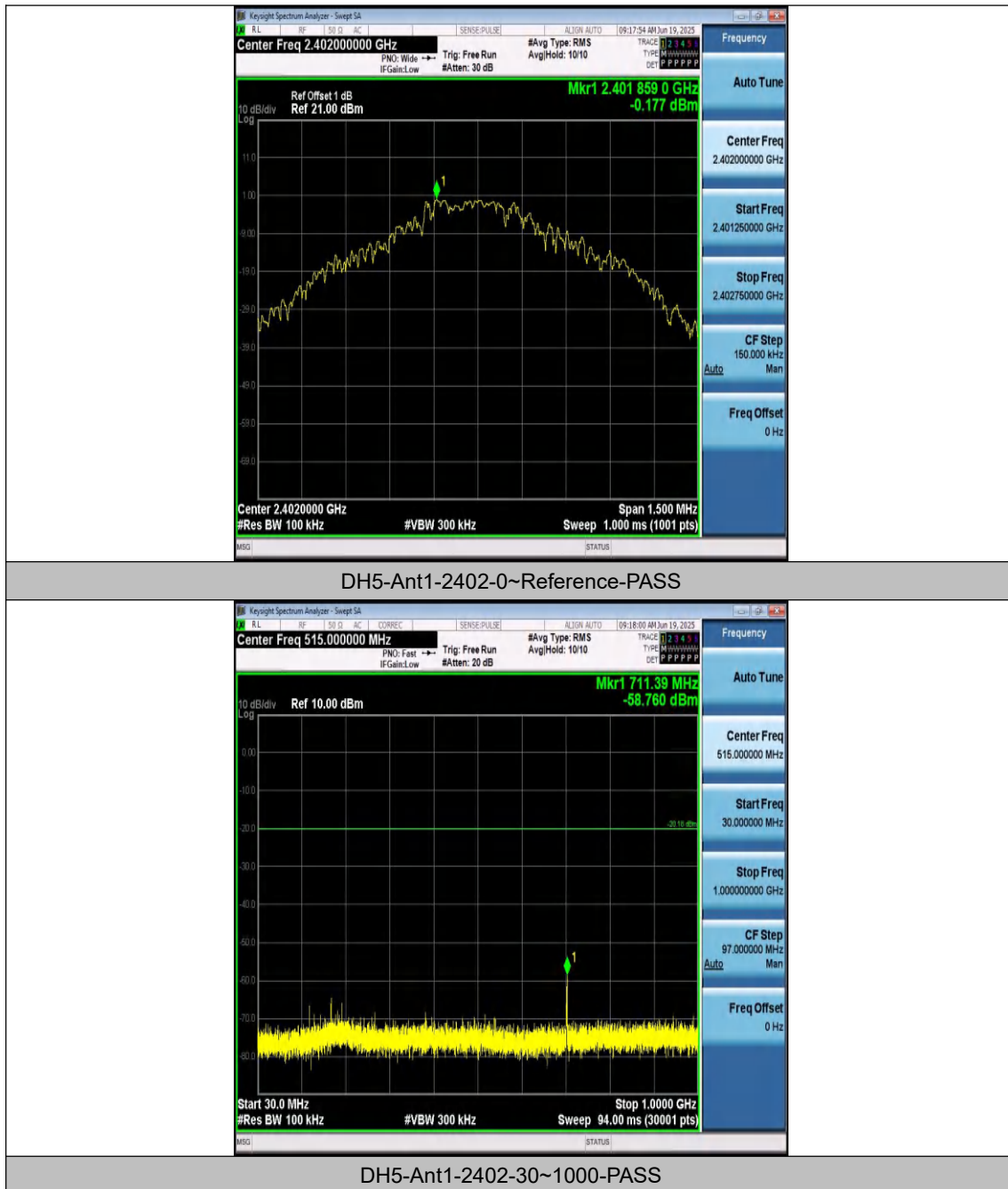
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.18	-0.18	---	PASS
DH5	Ant1	2402	30~1000	-0.18	-58.76	≤-20.18	PASS
DH5	Ant1	2402	1000~26500	-0.18	-41.19	≤-20.18	PASS
DH5	Ant1	2441	0~Reference	-0.56	-0.56	---	PASS
DH5	Ant1	2441	30~1000	-0.56	-63.08	≤-20.56	PASS
DH5	Ant1	2441	1000~26500	-0.56	-41.65	≤-20.56	PASS
DH5	Ant1	2480	0~Reference	-1.29	-1.29	---	PASS
DH5	Ant1	2480	30~1000	-1.29	-63.02	≤-21.29	PASS
DH5	Ant1	2480	1000~26500	-1.29	-39.63	≤-21.29	PASS
2DH5	Ant1	2402	0~Reference	-1.34	-1.34	---	PASS
2DH5	Ant1	2402	30~1000	-1.34	-63.57	≤-21.34	PASS
2DH5	Ant1	2402	1000~26500	-1.34	-45.08	≤-21.34	PASS
2DH5	Ant1	2441	0~Reference	-0.47	-0.47	---	PASS
2DH5	Ant1	2441	30~1000	-0.47	-62.67	≤-20.47	PASS
2DH5	Ant1	2441	1000~26500	-0.47	-43.82	≤-20.47	PASS
2DH5	Ant1	2480	0~Reference	-1.60	-1.60	---	PASS
2DH5	Ant1	2480	30~1000	-1.60	-62.69	≤-21.6	PASS
2DH5	Ant1	2480	1000~26500	-1.60	-42.19	≤-21.6	PASS
3DH5	Ant1	2402	0~Reference	-0.30	-0.30	---	PASS
3DH5	Ant1	2402	30~1000	-0.30	-62.08	≤-20.3	PASS
3DH5	Ant1	2402	1000~26500	-0.30	-44.38	≤-20.3	PASS
3DH5	Ant1	2441	0~Reference	-3.60	-3.60	---	PASS
3DH5	Ant1	2441	30~1000	-3.60	-62.33	≤-23.6	PASS
3DH5	Ant1	2441	1000~26500	-3.60	-43.36	≤-23.6	PASS
3DH5	Ant1	2480	0~Reference	-1.50	-1.50	---	PASS
3DH5	Ant1	2480	30~1000	-1.50	-60.25	≤-21.5	PASS
3DH5	Ant1	2480	1000~26500	-1.50	-43.9	≤-21.5	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.

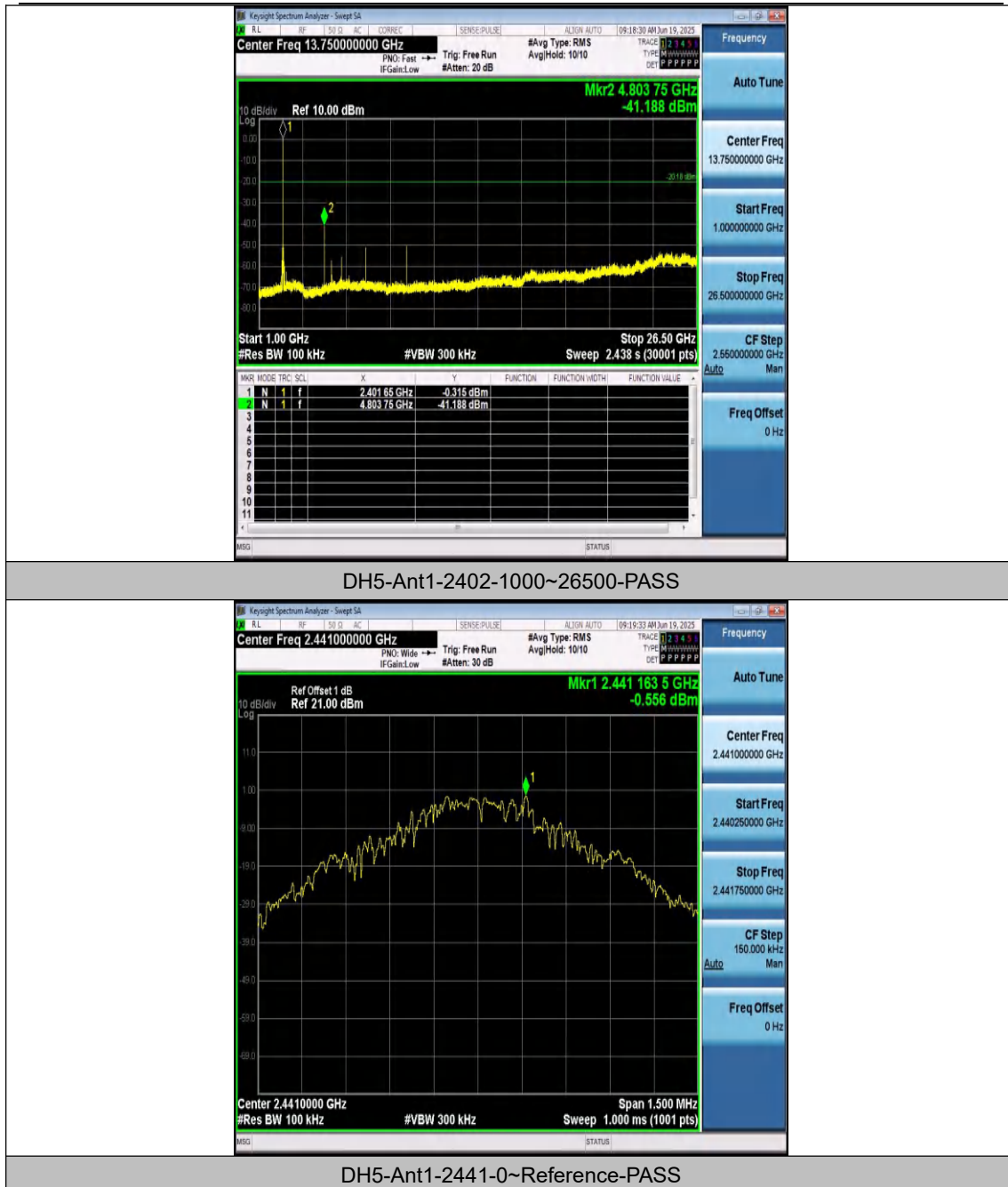
Test Graphs

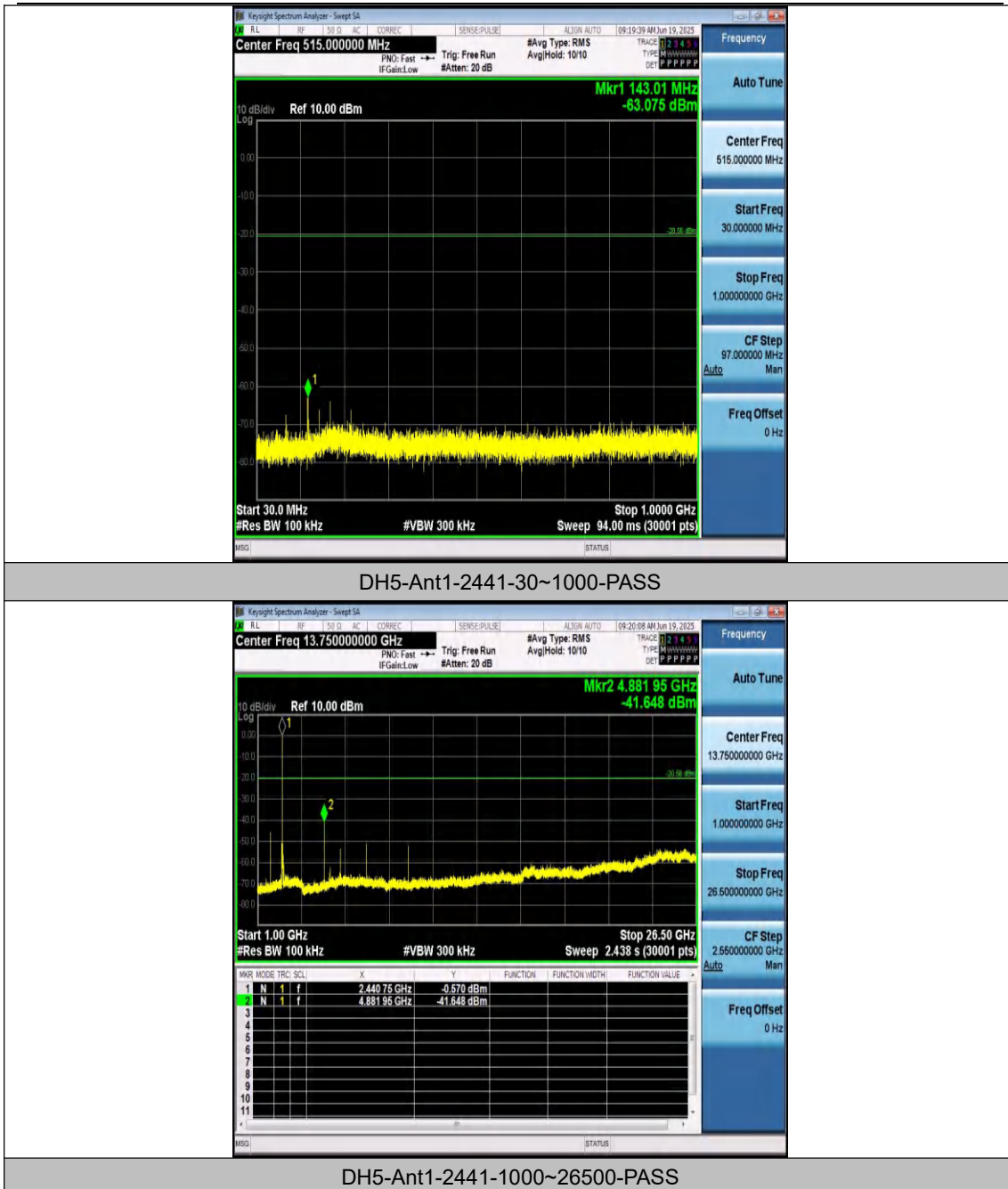


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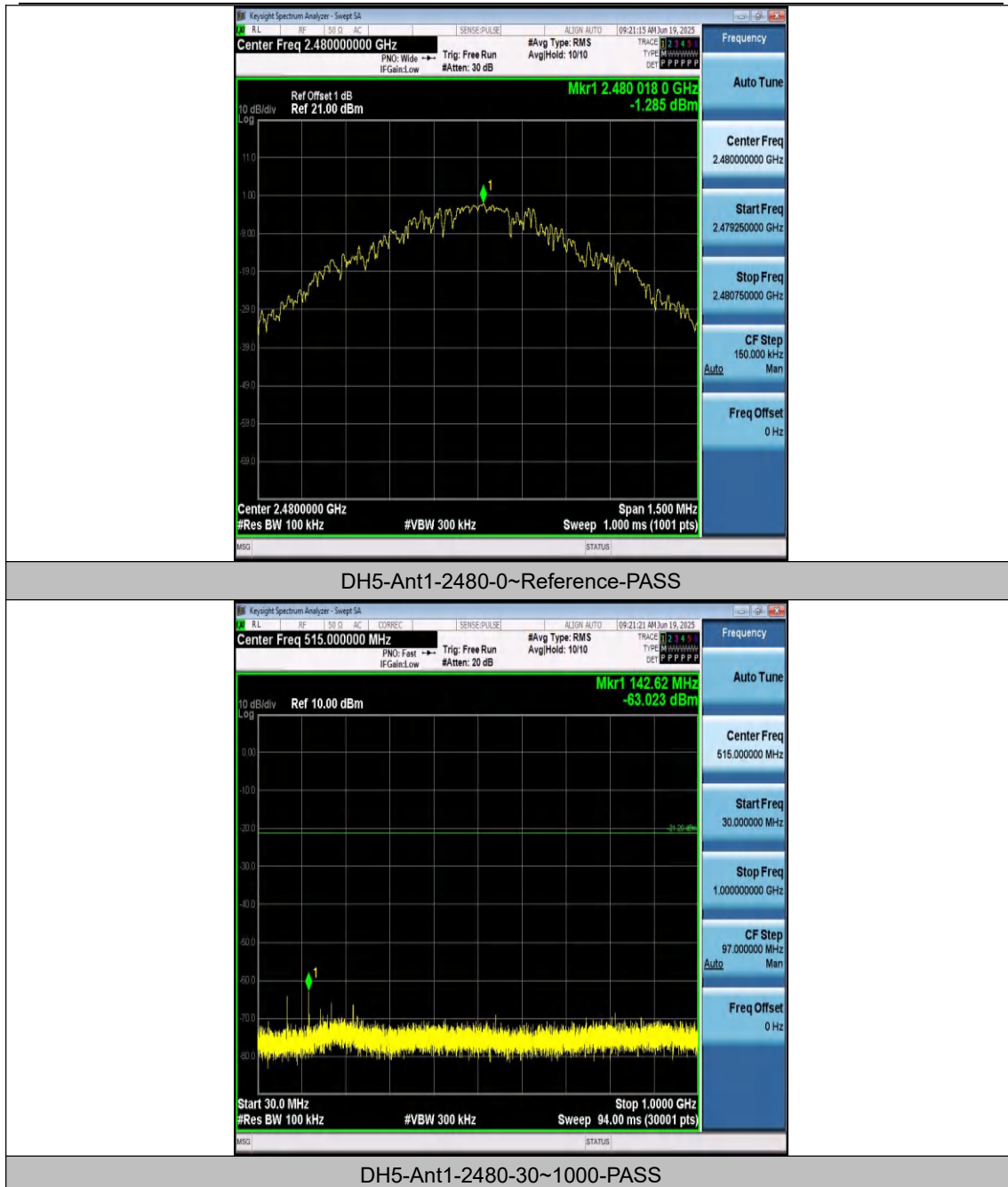




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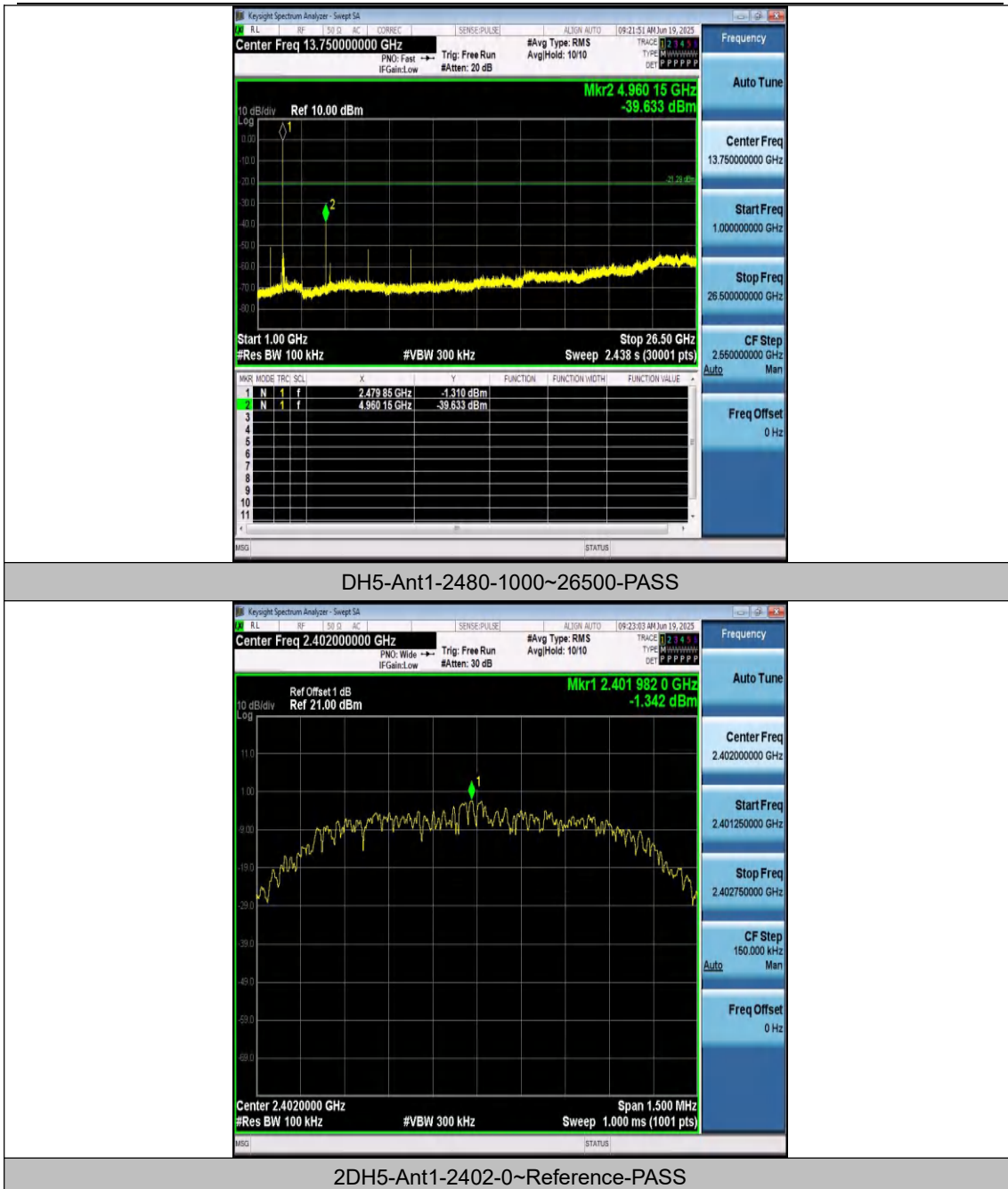


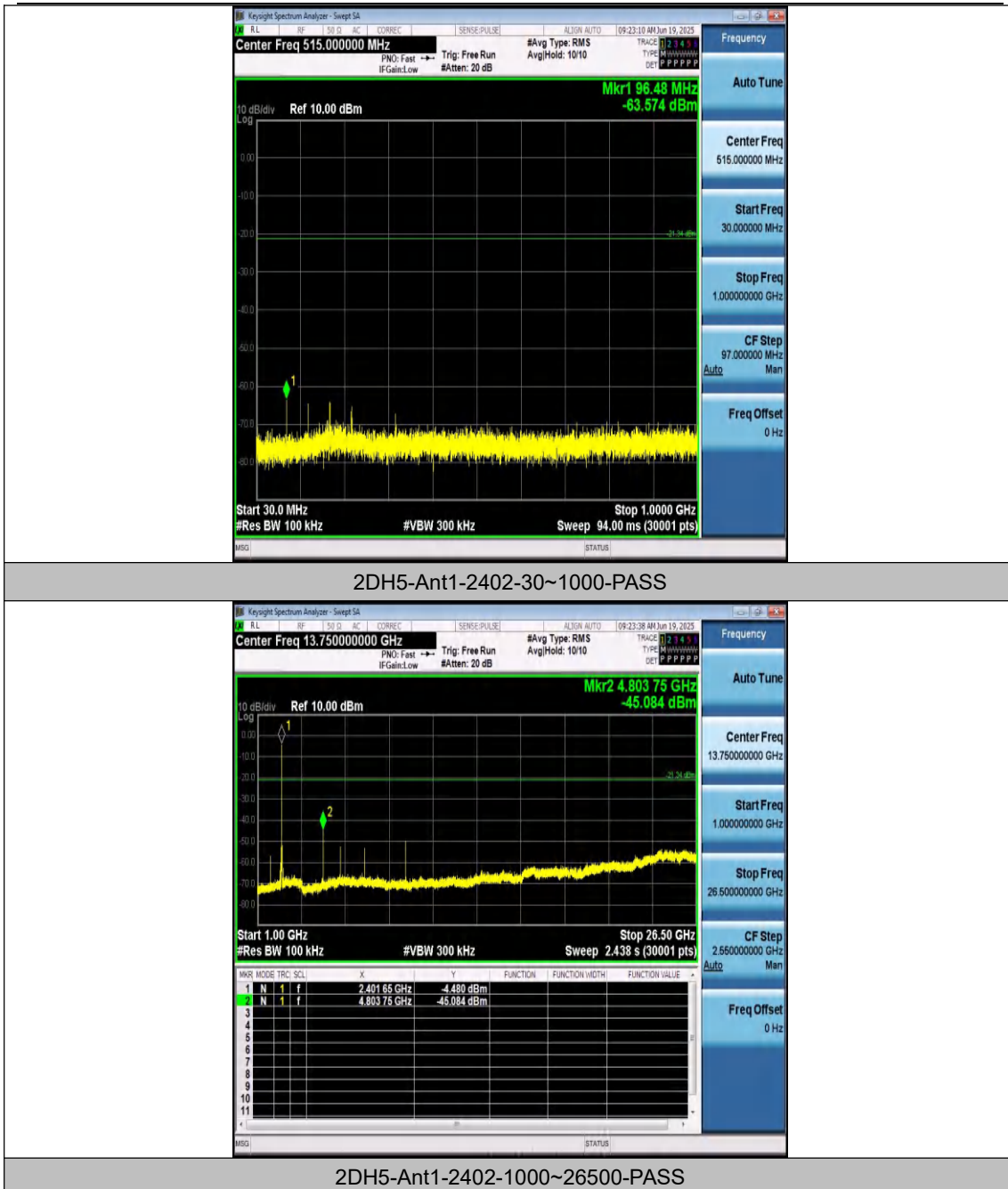
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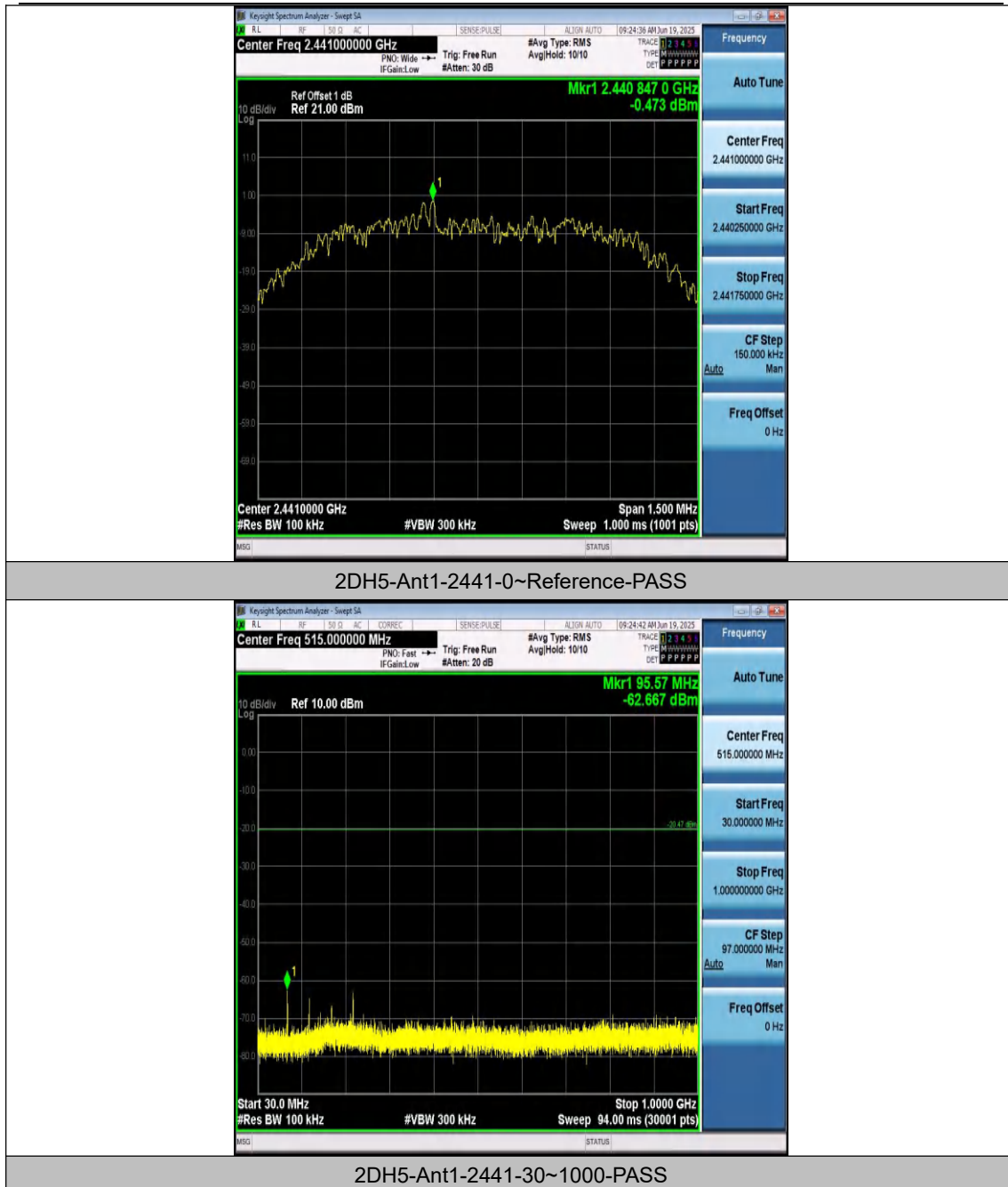


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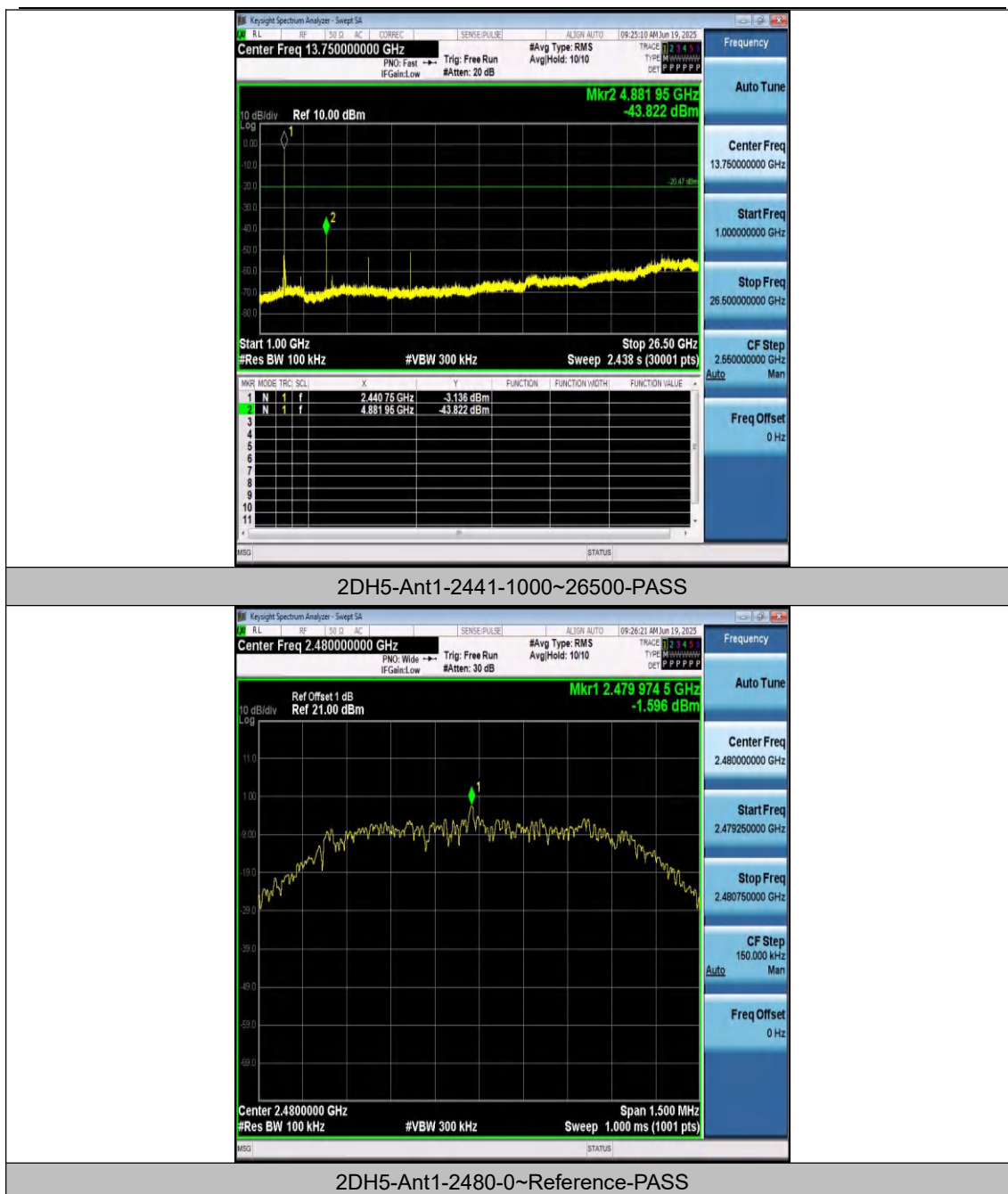
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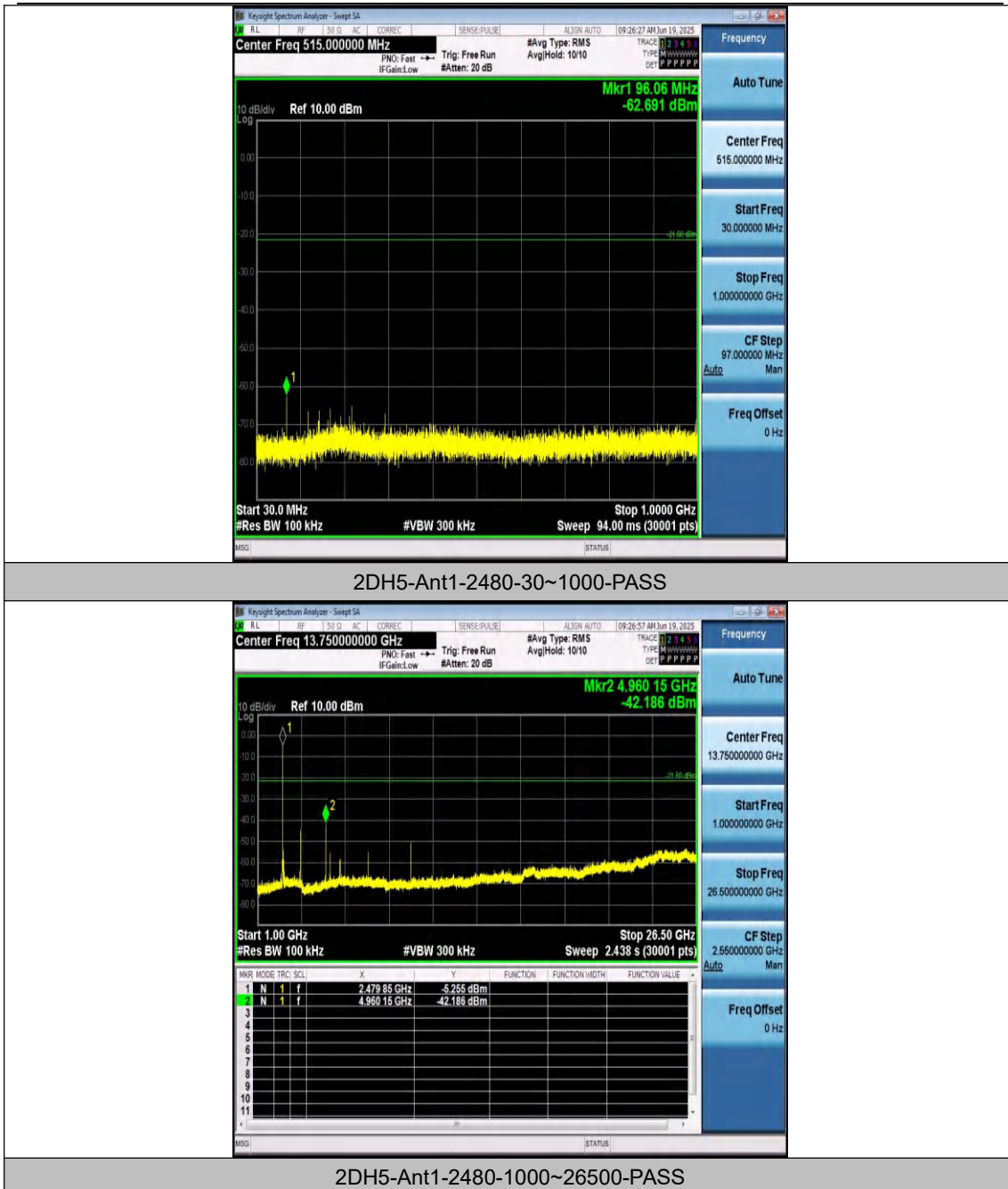


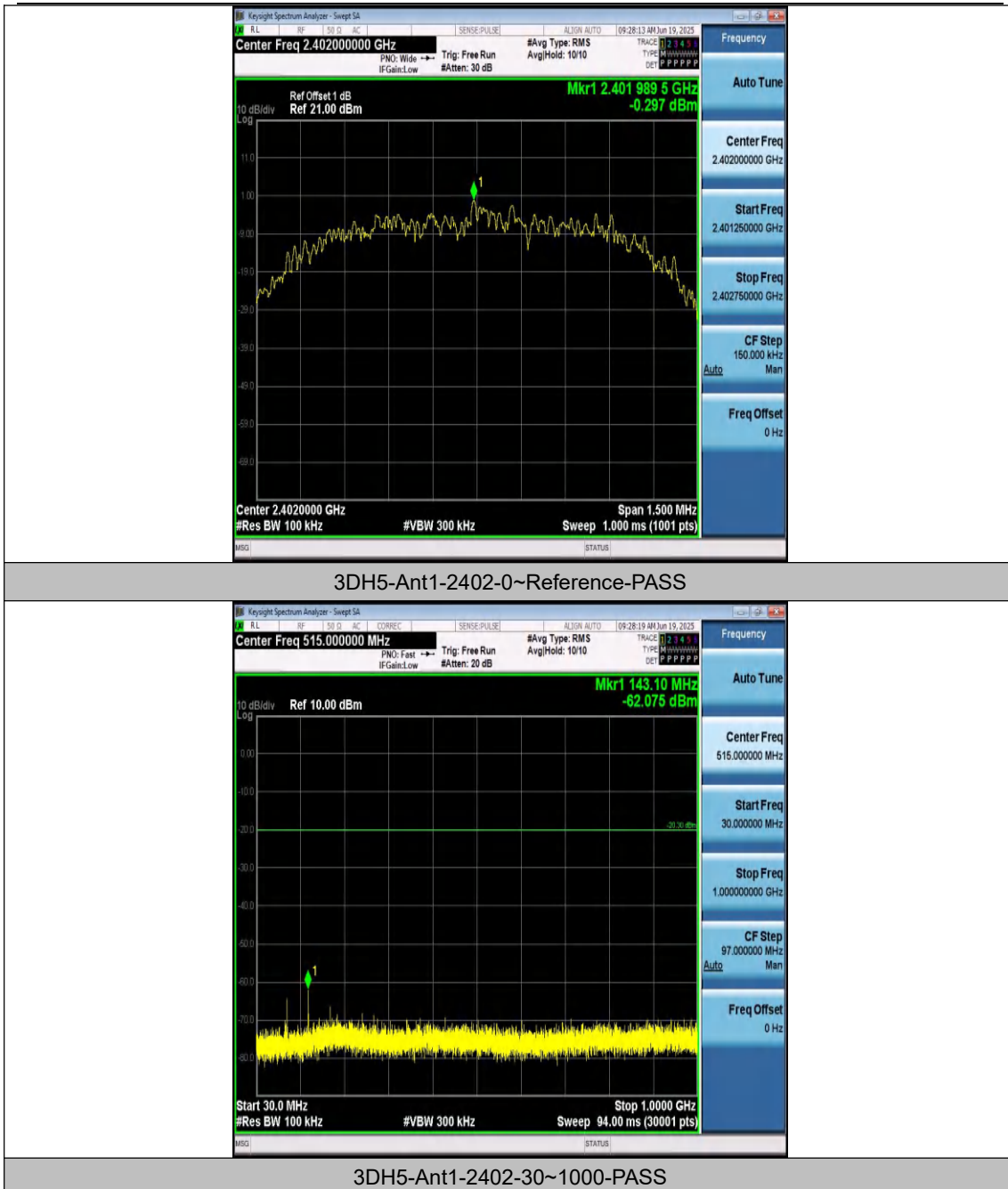
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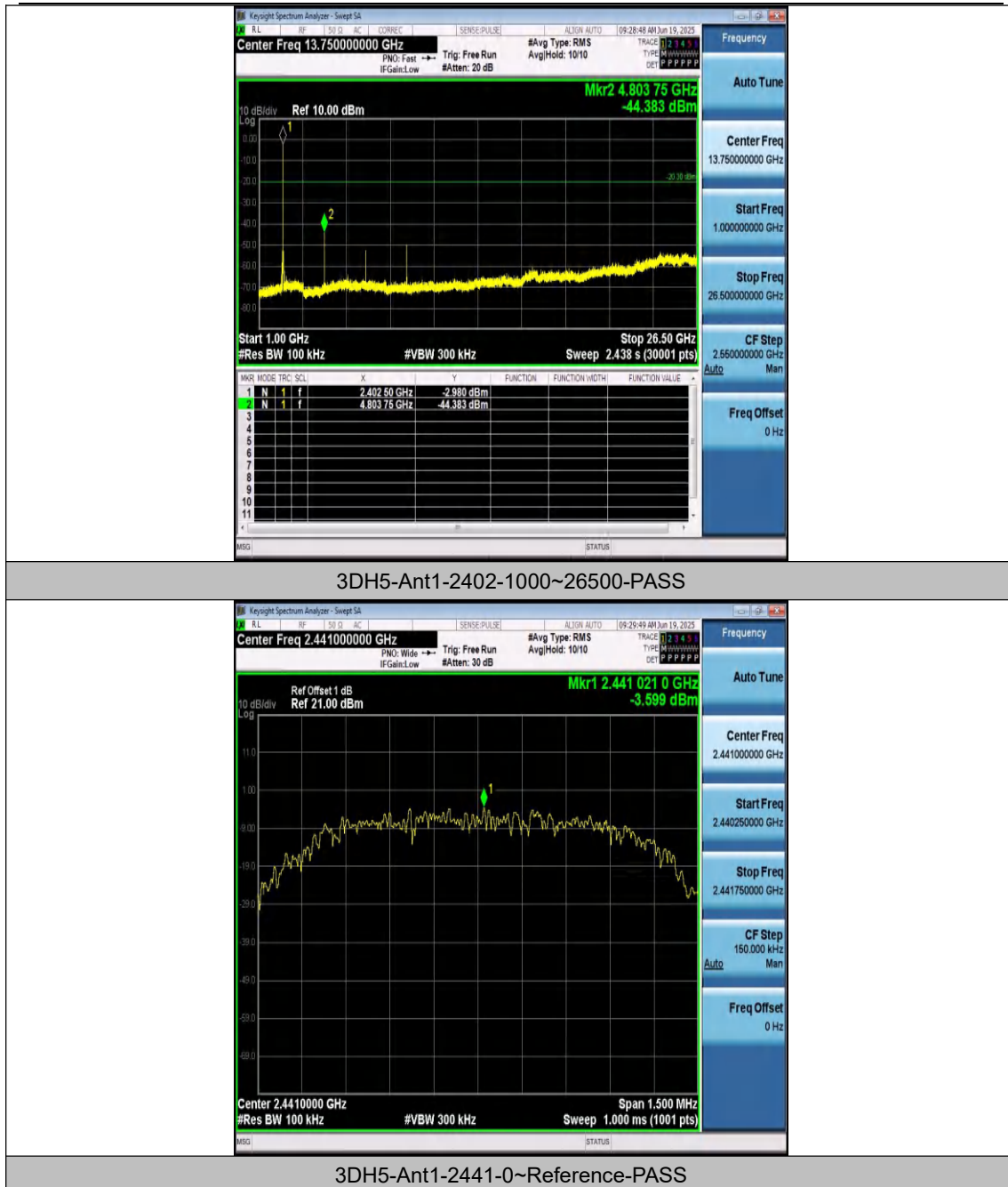


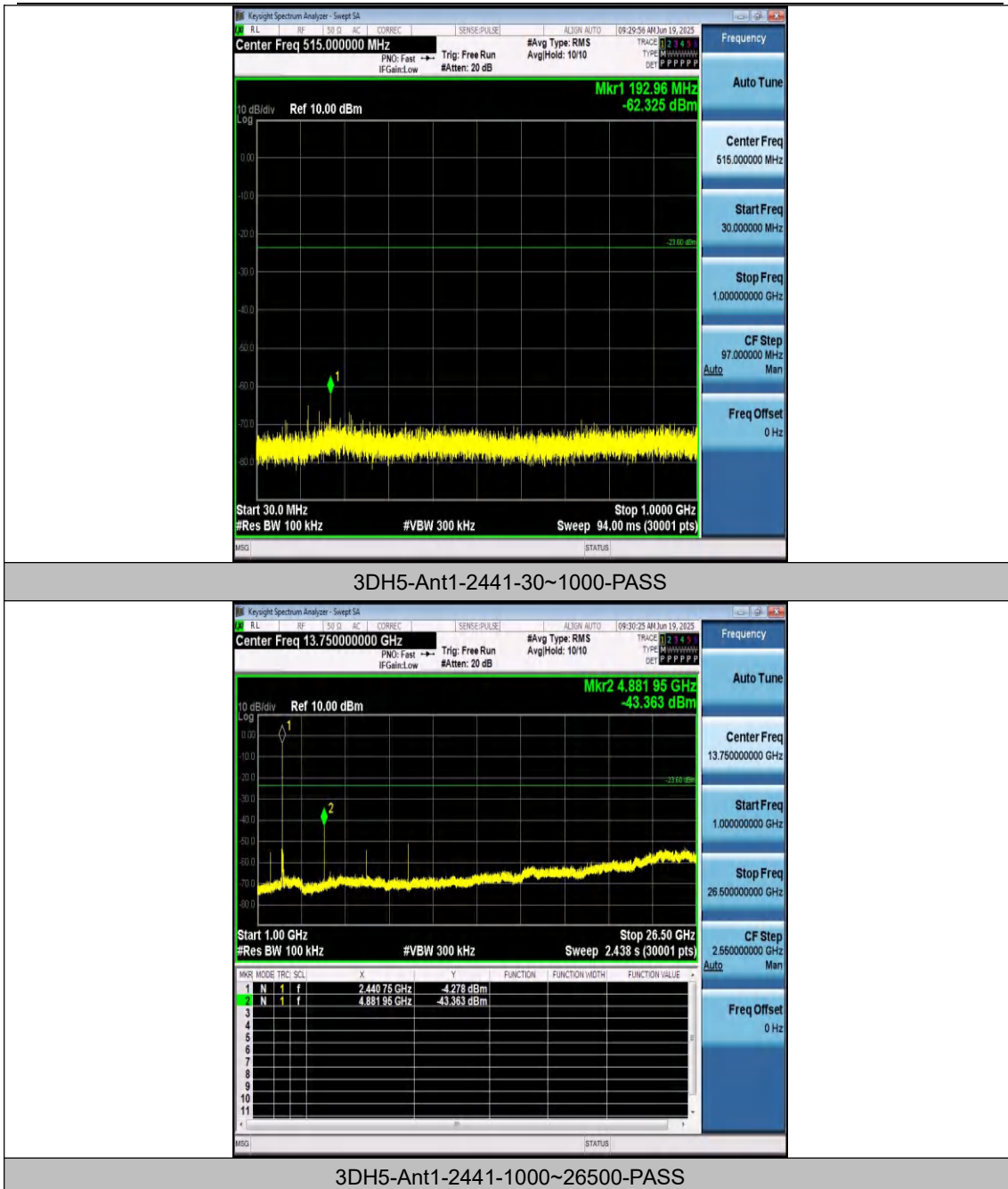


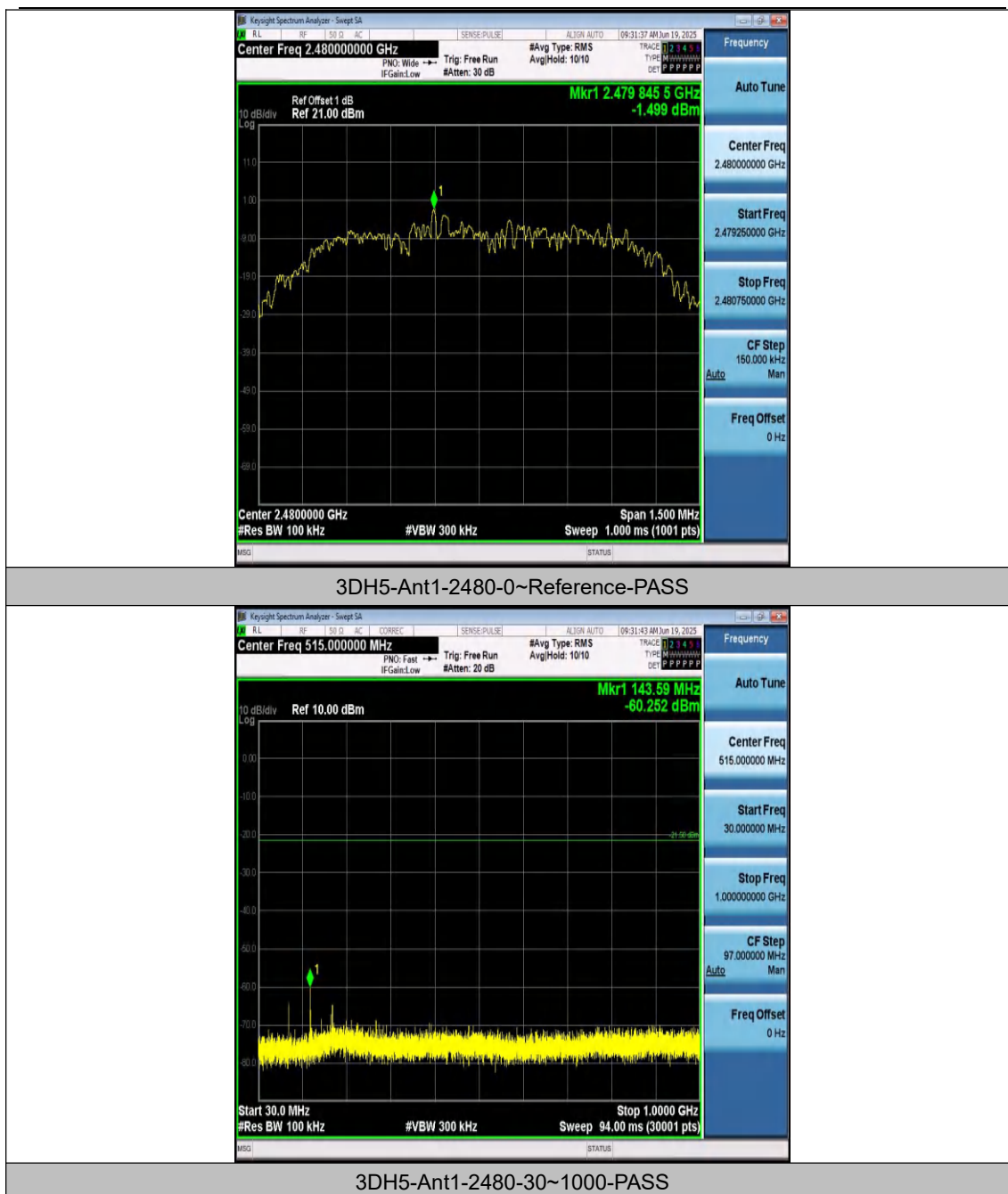
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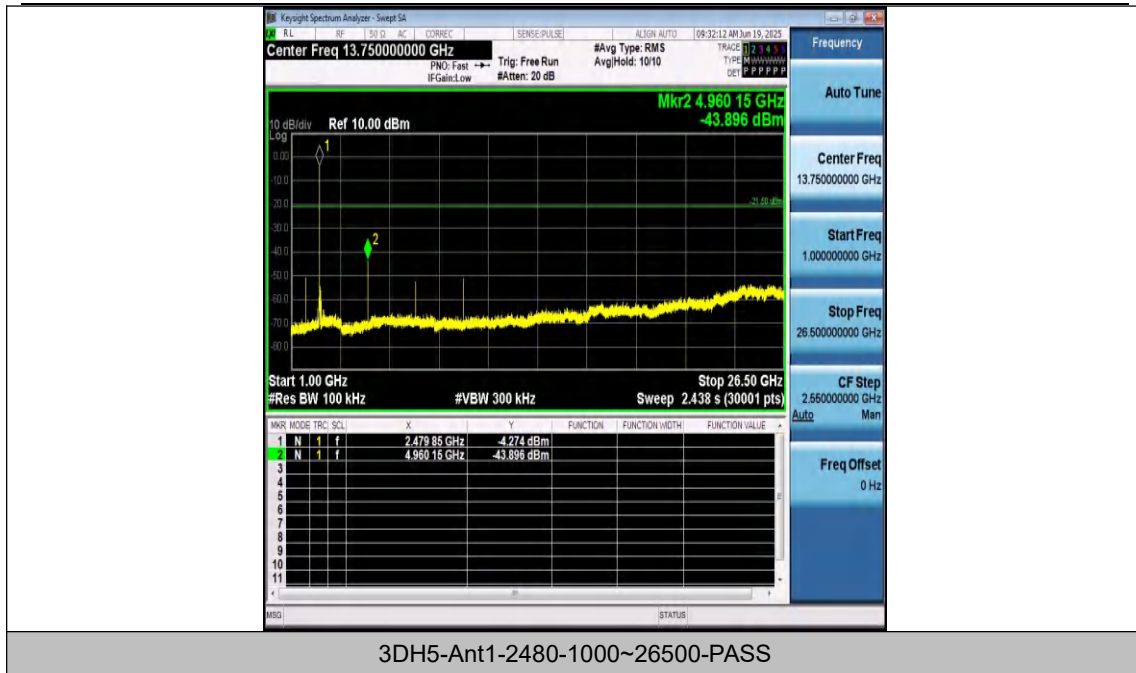
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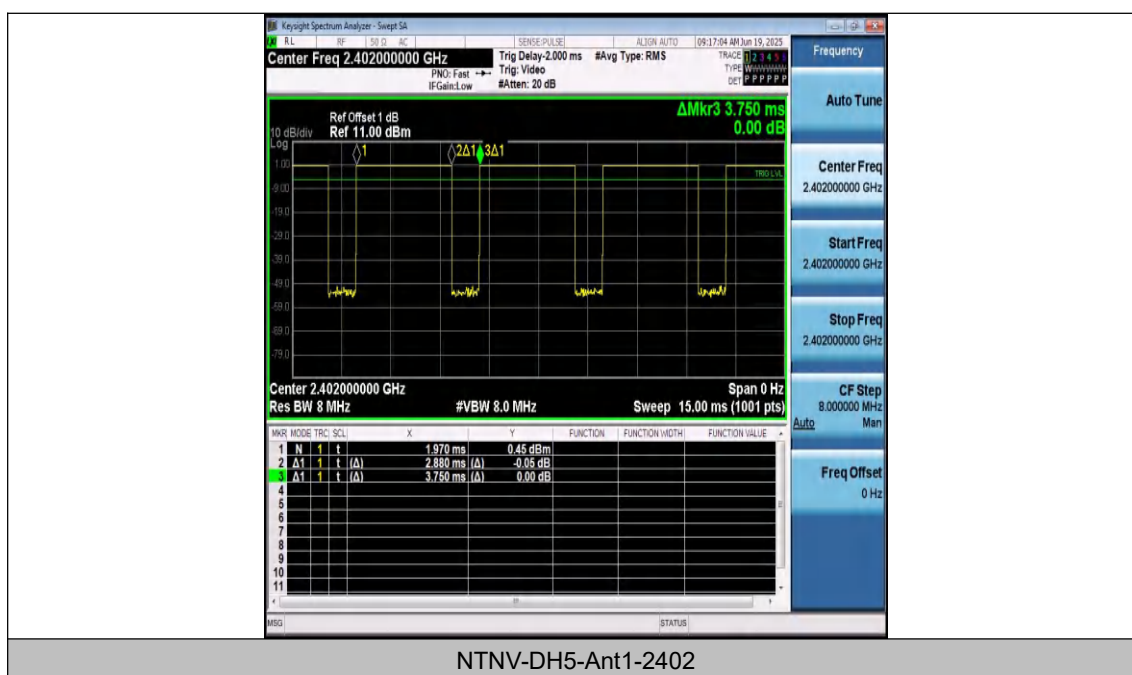
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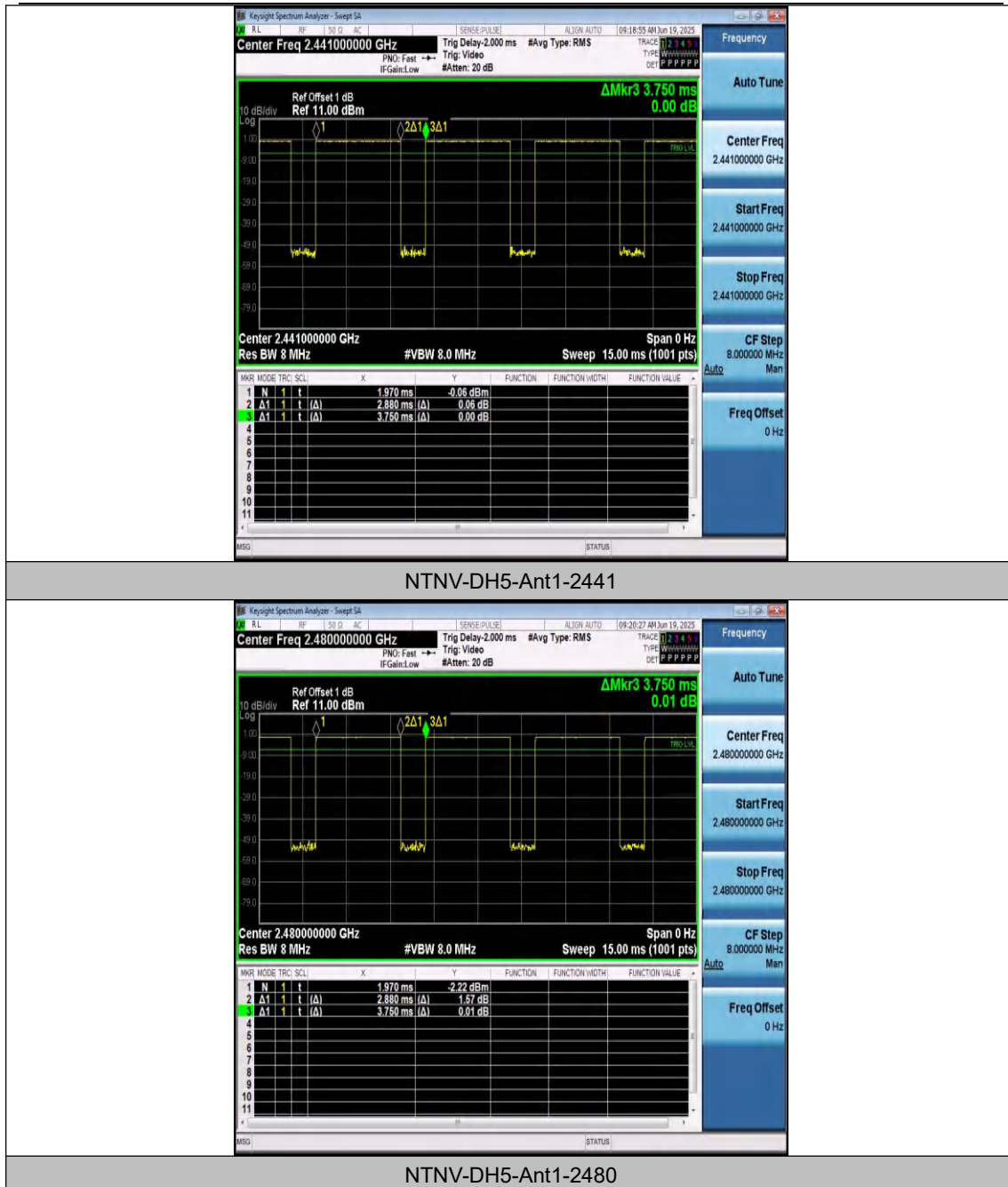
Appendix I: Duty Cycle

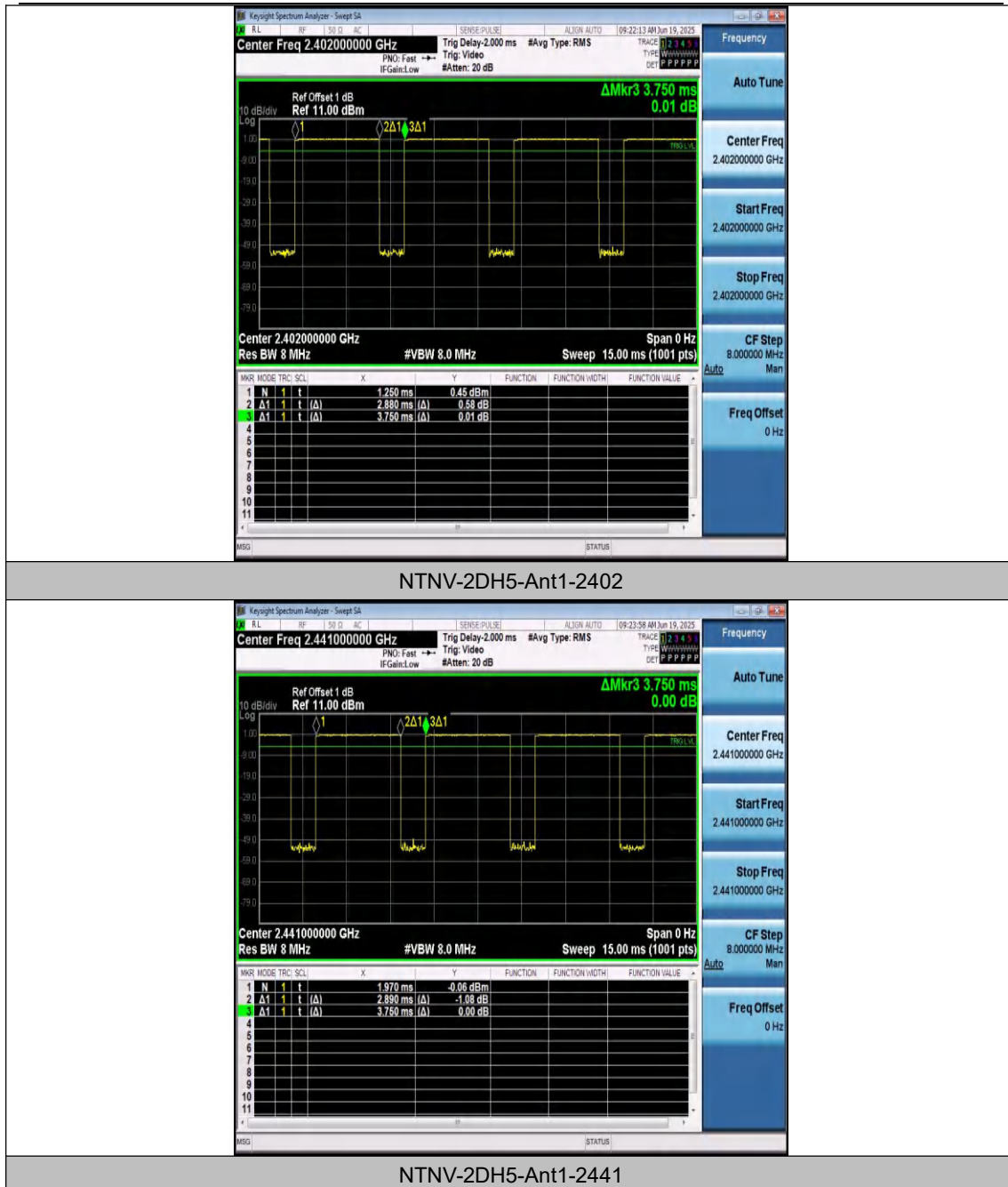
Test Result

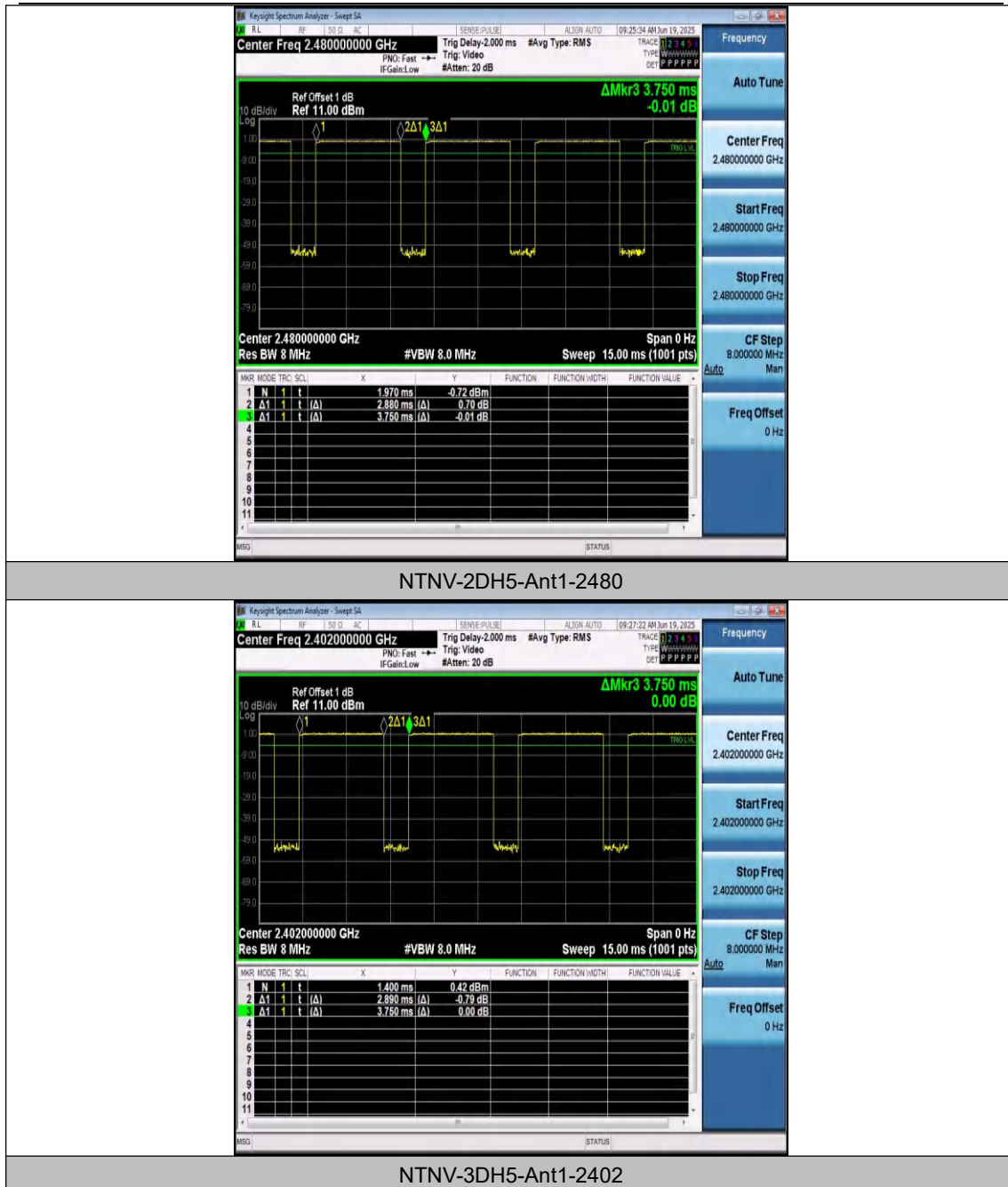
Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.88	3.75	76.80	1.15
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.90	3.75	77.33	1.12
3DH5	Ant1	2480	2.90	3.75	77.33	1.12

Test Graphs





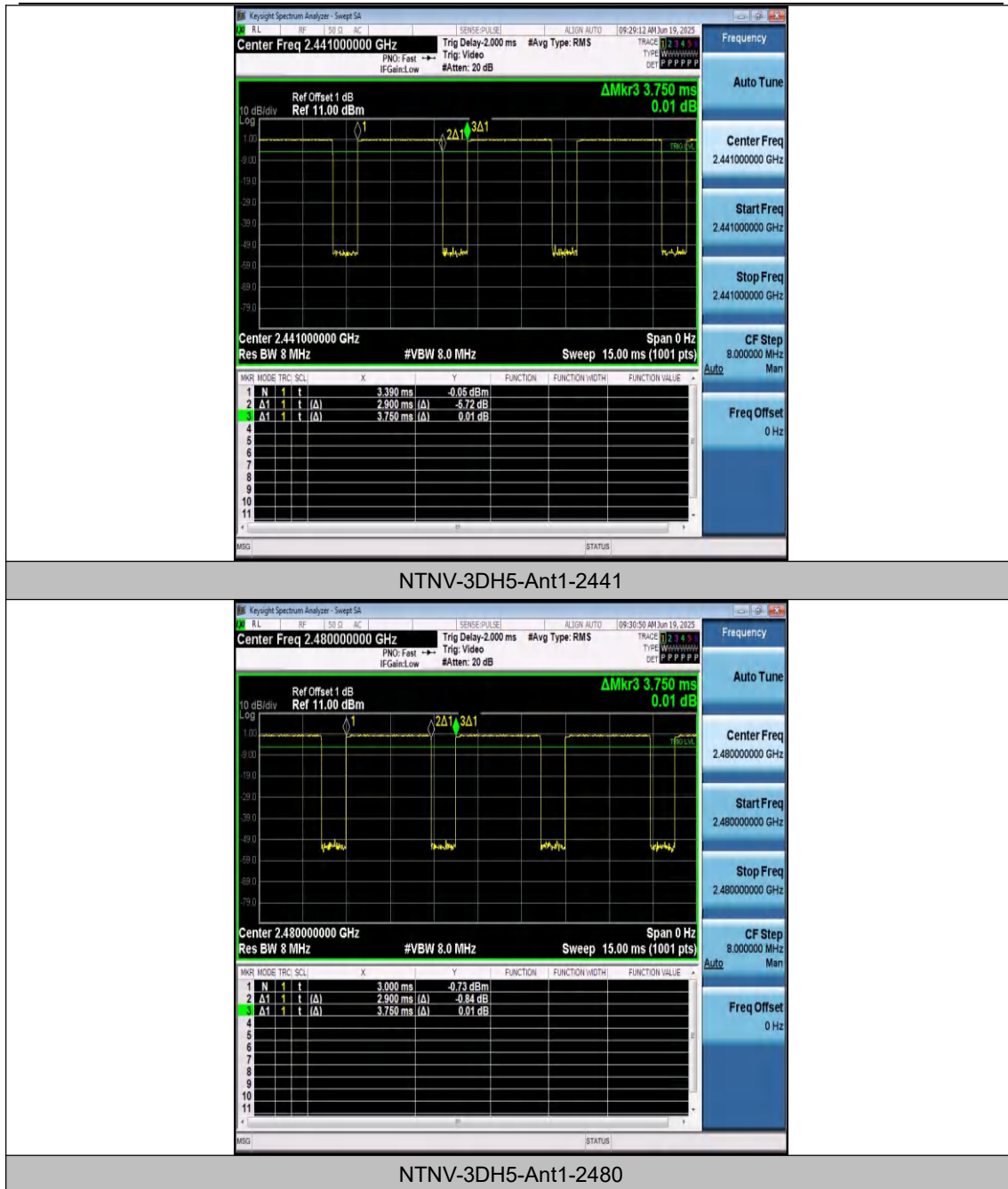




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