

Appendix Test Data

Report No.:	1812C40097512501	Test Sample No.:	1-2-2
Start Test Date:	2024-12-04	Finish Test Date:	2024-12-04
Test Engineer:	<i>Foker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5°C	Relative Humidity:	47%
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	0.951	2401.535	2402.486	---	---
DH5	Ant1	2441	0.945	2440.535	2441.480	---	---
DH5	Ant1	2480	0.942	2479.535	2480.477	---	---
2DH5	Ant1	2402	1.362	2401.316	2402.678	---	---
2DH5	Ant1	2441	1.356	2440.319	2441.675	---	---
2DH5	Ant1	2480	1.362	2479.316	2480.678	---	---
3DH5	Ant1	2402	1.347	2401.322	2402.669	---	---
3DH5	Ant1	2441	1.350	2440.319	2441.669	---	---
3DH5	Ant1	2480	1.344	2479.322	2480.666	---	---



Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



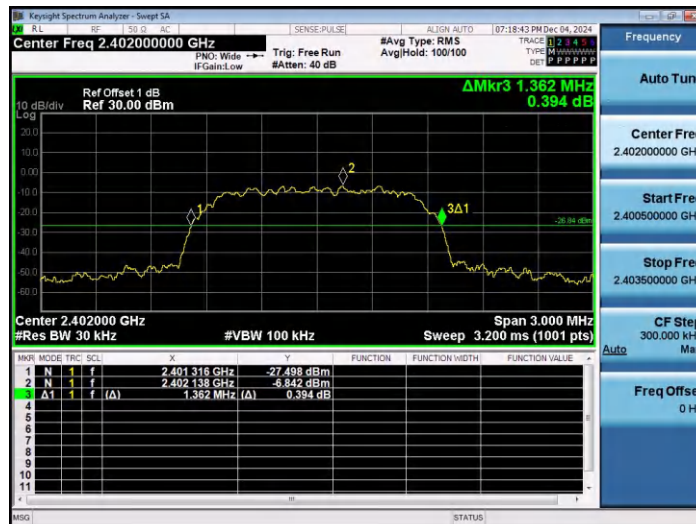
DH5-Ant1-2480

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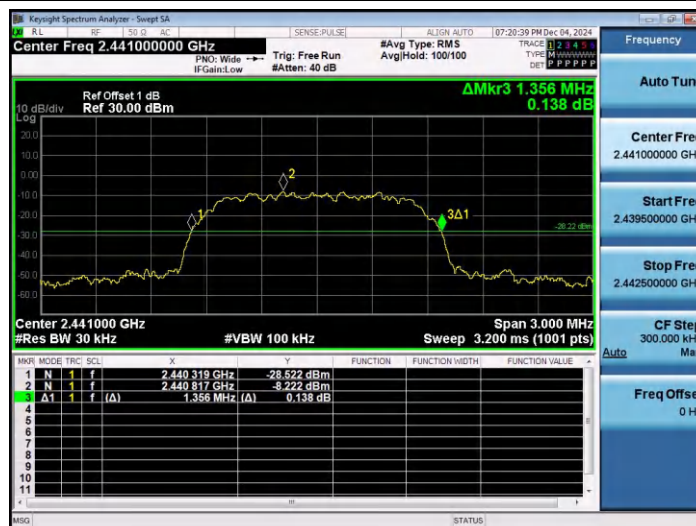
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Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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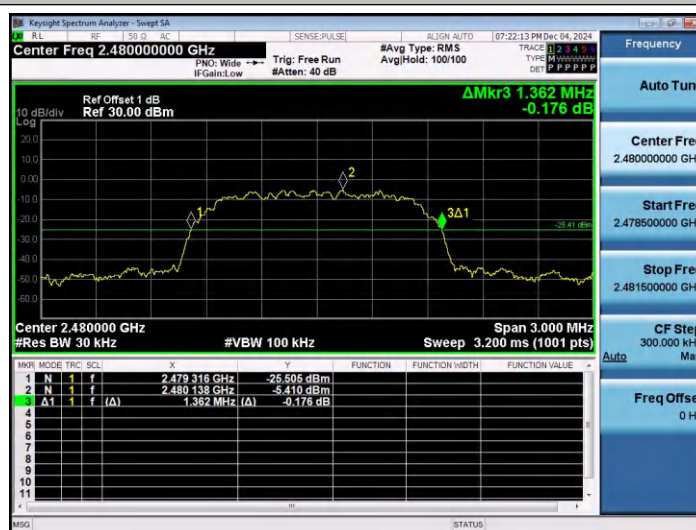




2DH5-Ant1-2402

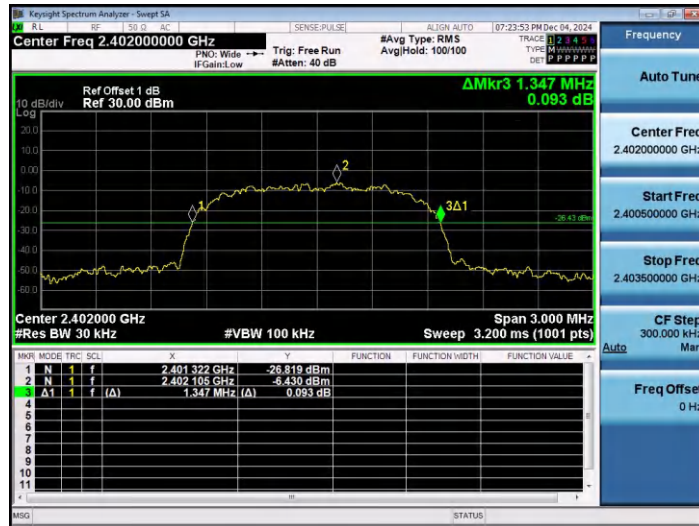


2DH5-Ant1-2441

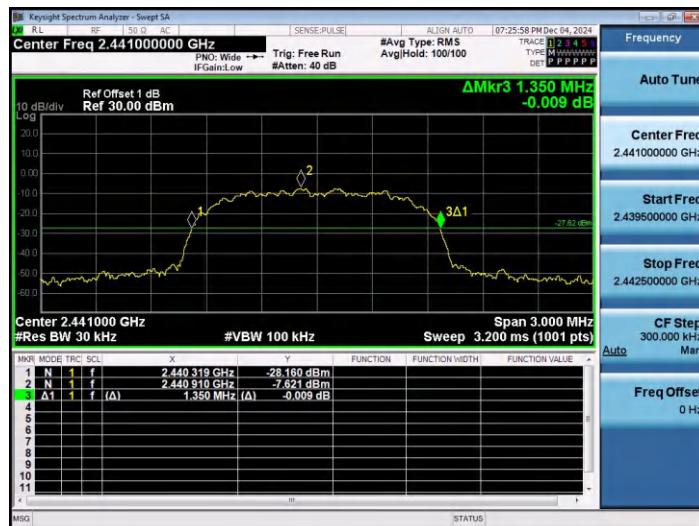


2DH5-Ant1-2480

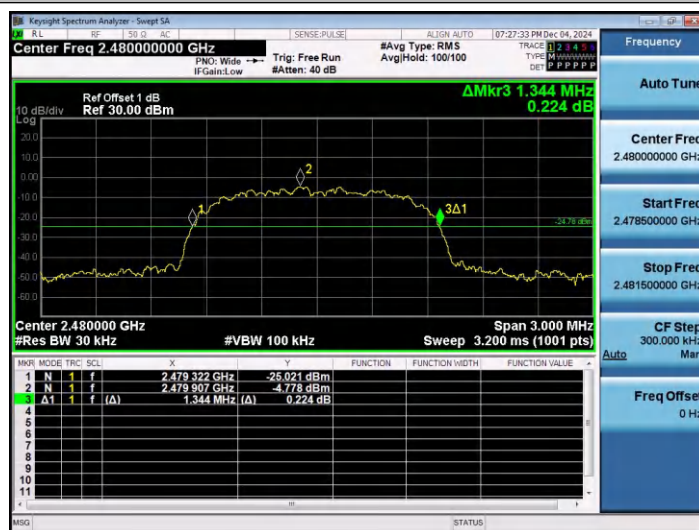




3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480



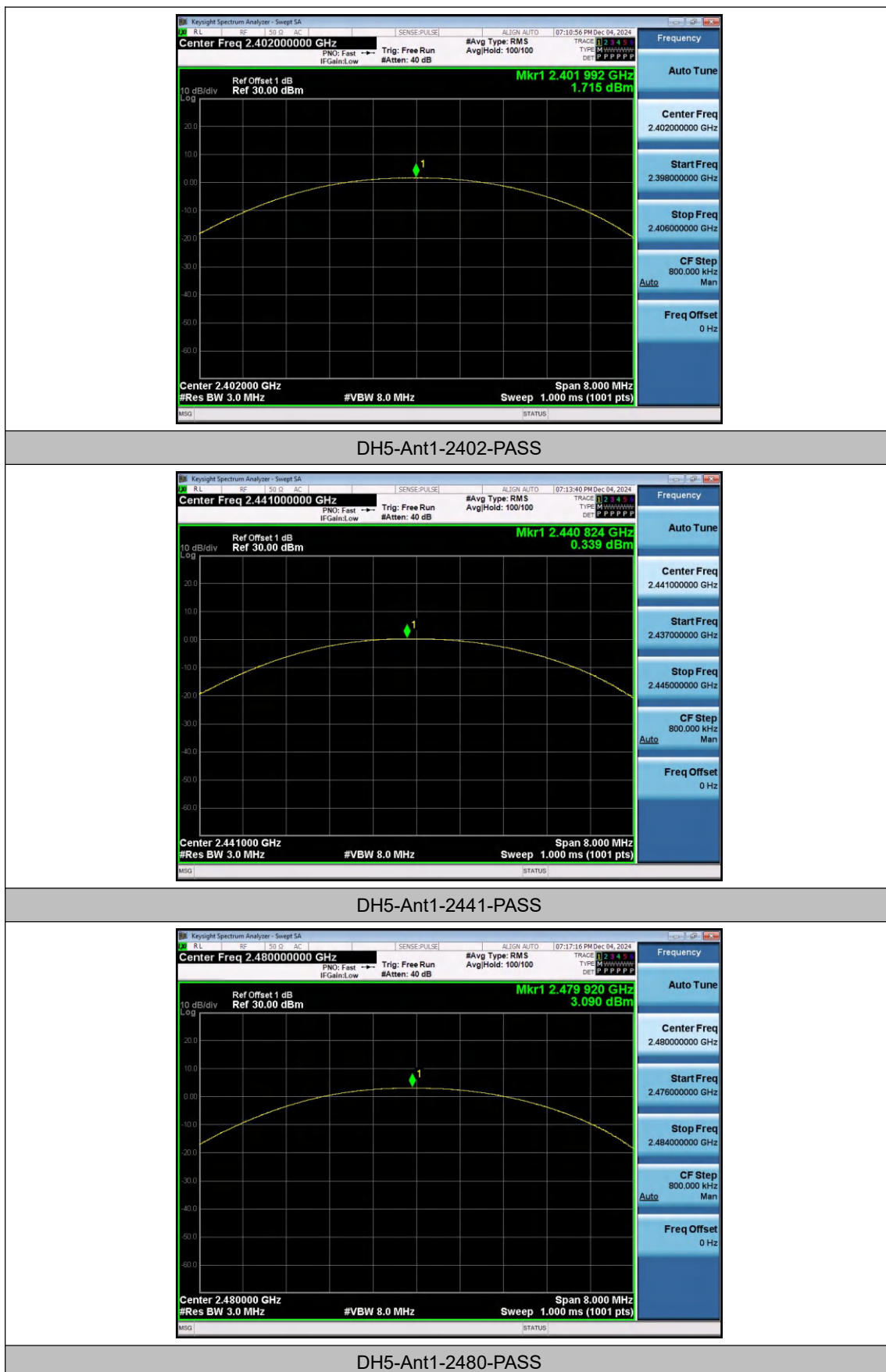
Appendix B: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.72	≤20.97	PASS
DH5	Ant1	2441	0.34	≤20.97	PASS
DH5	Ant1	2480	3.09	≤20.97	PASS
2DH5	Ant1	2402	2.17	≤20.97	PASS
2DH5	Ant1	2441	0.81	≤20.97	PASS
2DH5	Ant1	2480	3.55	≤20.97	PASS
3DH5	Ant1	2402	2.66	≤20.97	PASS
3DH5	Ant1	2441	1.45	≤20.97	PASS
3DH5	Ant1	2480	3.93	≤20.97	PASS



Test Graphs



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2DH5-Ant1-2402-PASS

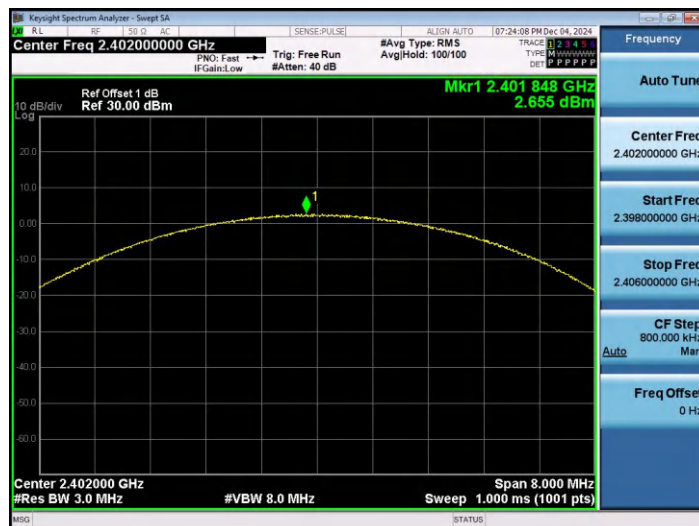


2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS





3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



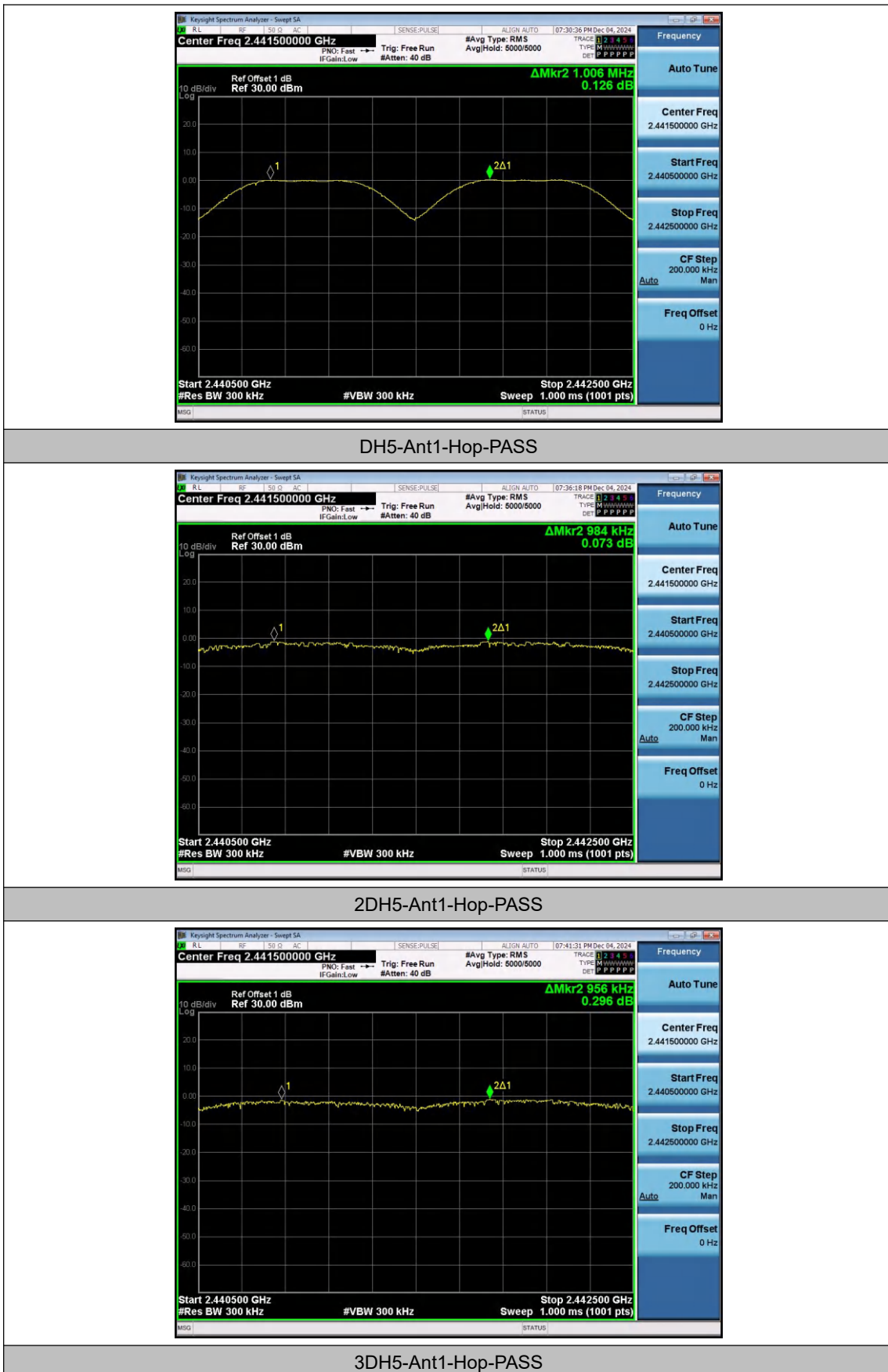
Appendix C: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥0.634	PASS
2DH5	Ant1	Hop	0.984	≥0.908	PASS
3DH5	Ant1	Hop	0.956	≥0.900	PASS



Test Graphs



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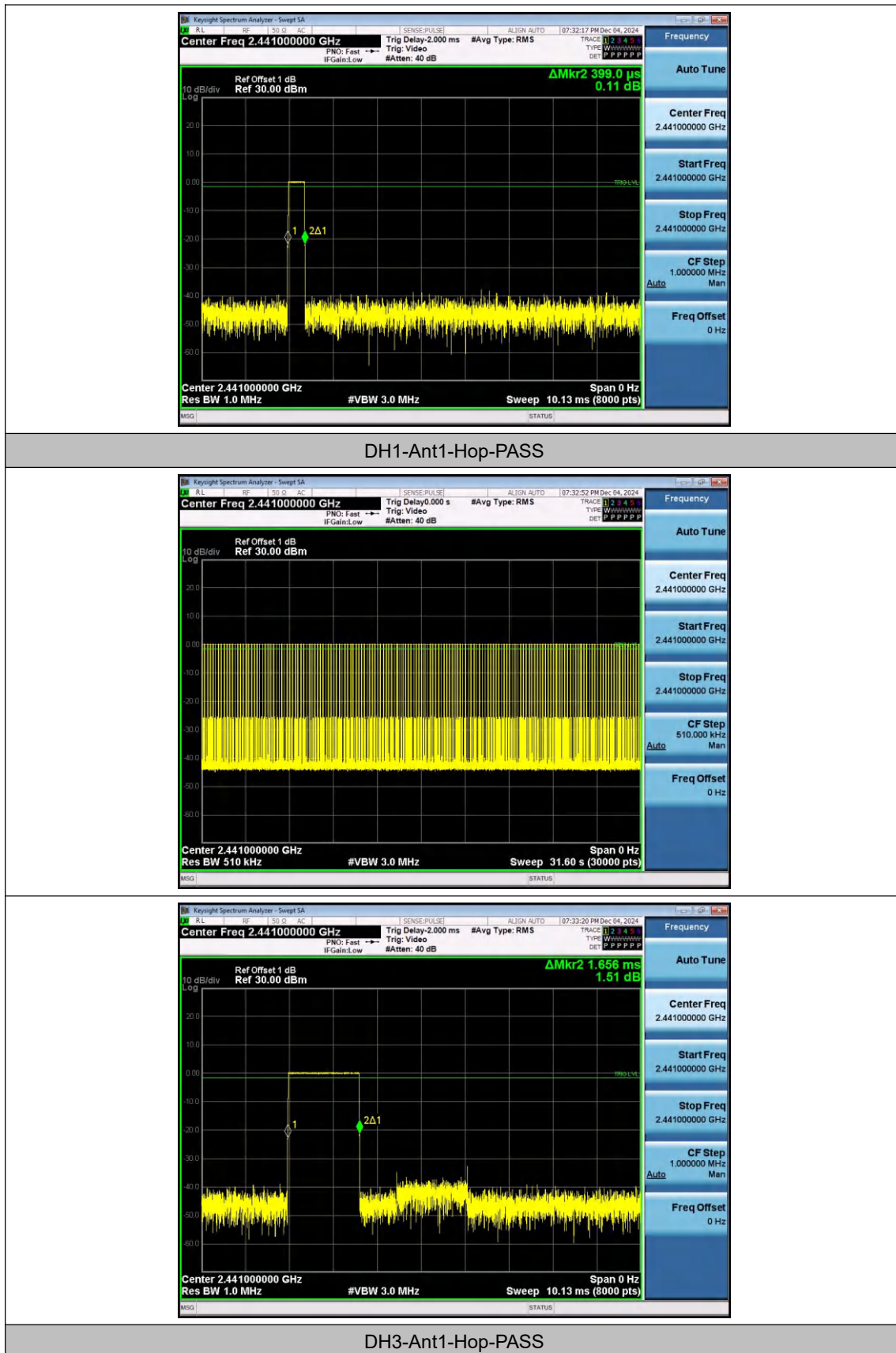
Appendix D: Dwell Time

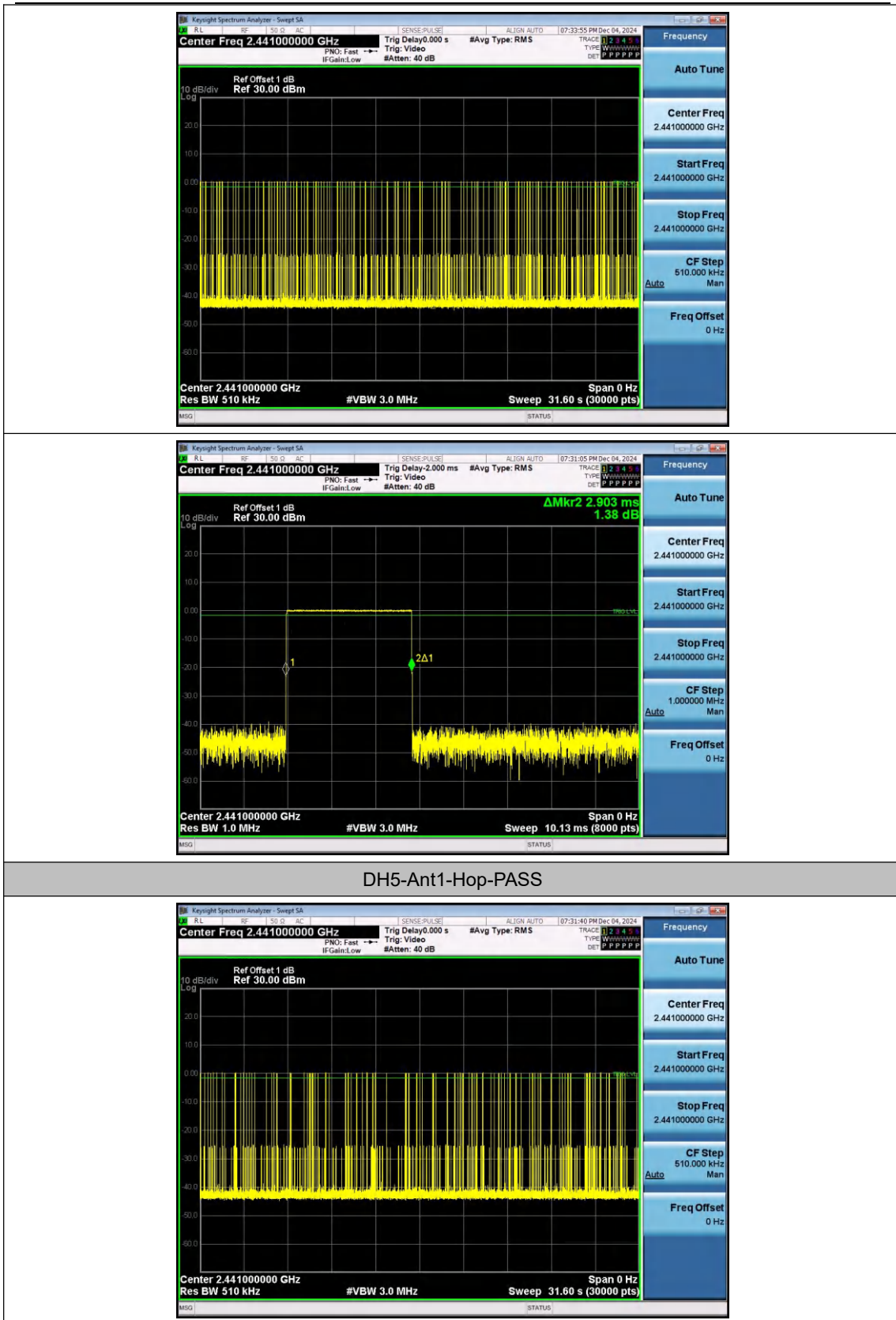
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop	0.399	311	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.656	149	0.247	≤0.4	PASS
DH5	Ant1	Hop	2.903	115	0.334	≤0.4	PASS
2DH1	Ant1	Hop	0.405	314	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.657	129	0.214	≤0.4	PASS
2DH5	Ant1	Hop	2.906	97	0.282	≤0.4	PASS
3DH1	Ant1	Hop	0.404	315	0.127	≤0.4	PASS
3DH3	Ant1	Hop	1.657	157	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.907	106	0.308	≤0.4	PASS



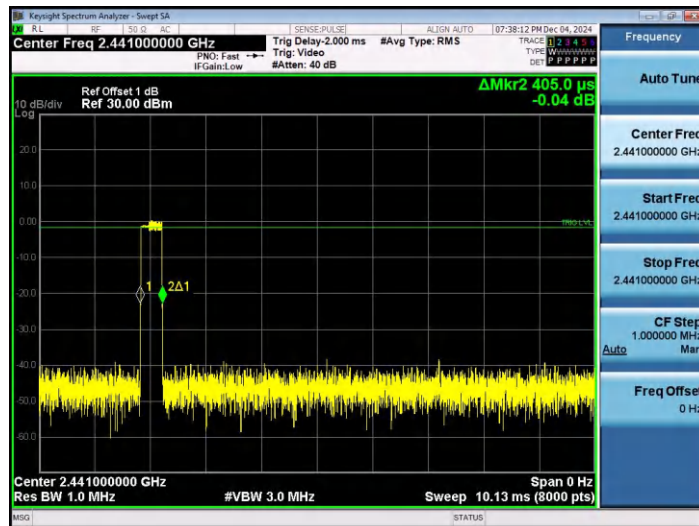
Test Graphs



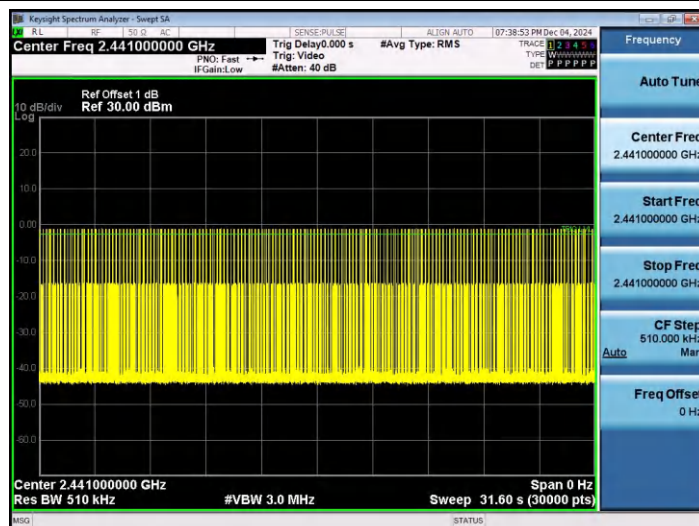


DH5-Ant1-Hop-PASS



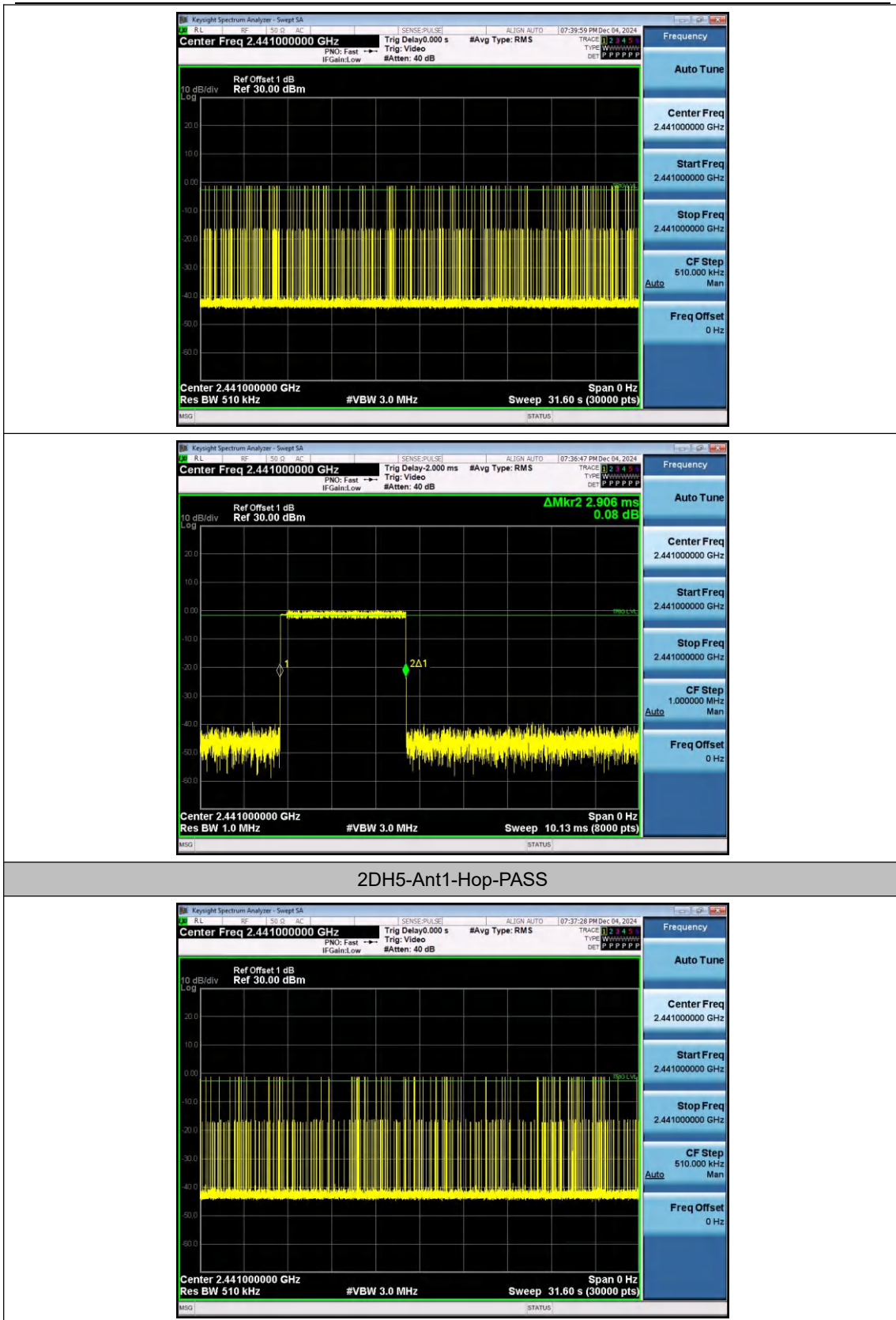


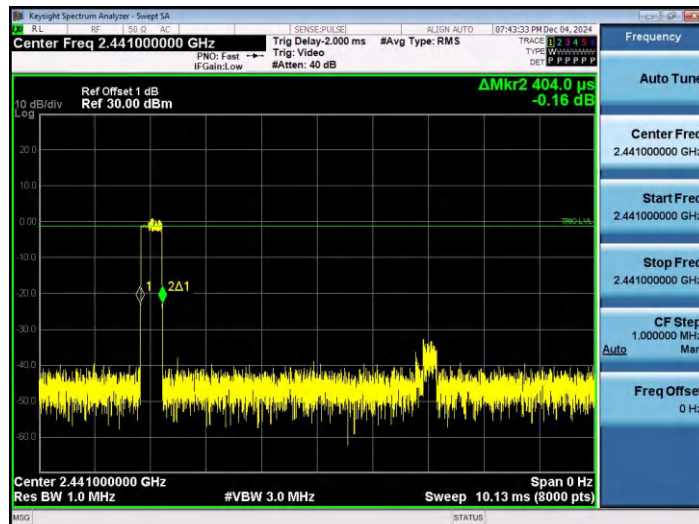
2DH1-Ant1-Hop-PASS



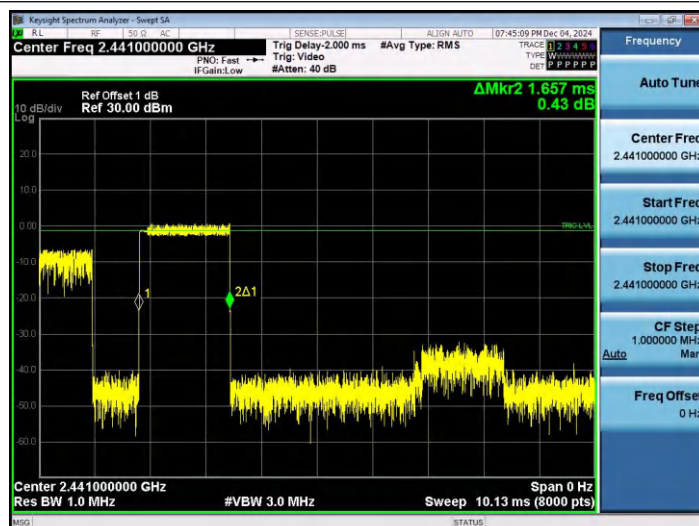
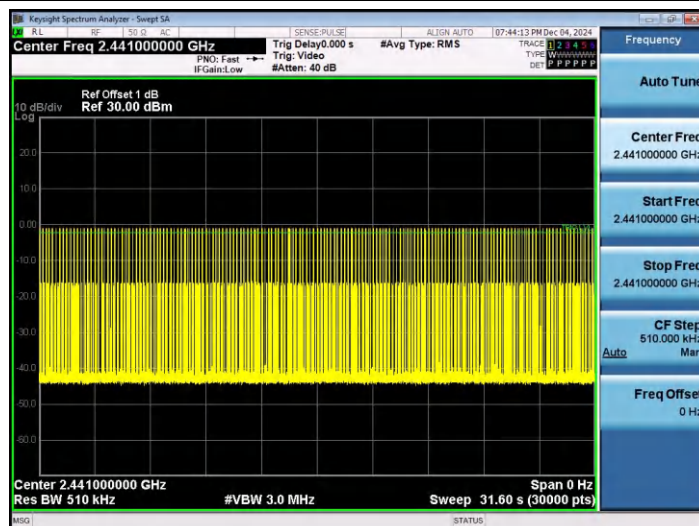
2DH3-Ant1-Hop-PASS





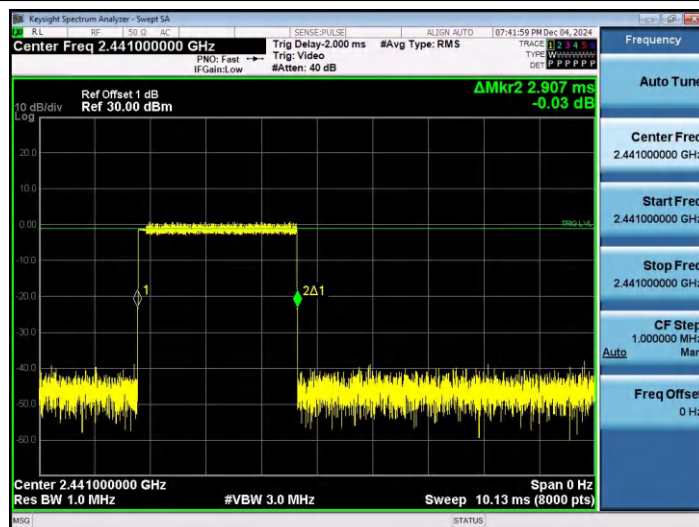
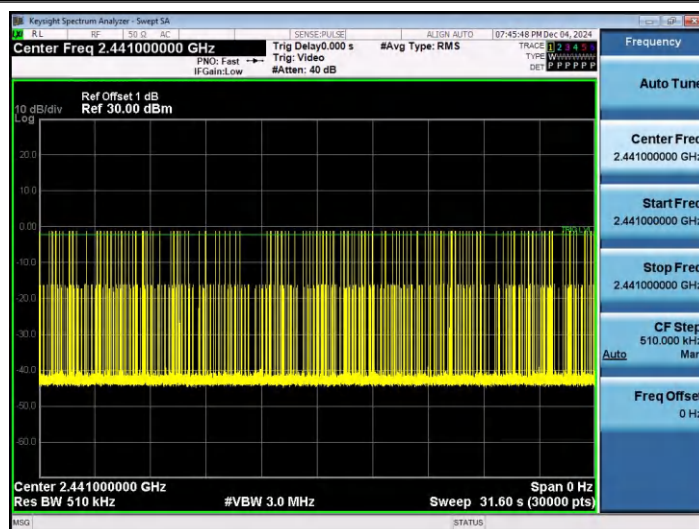


3DH1-Ant1-Hop-PASS

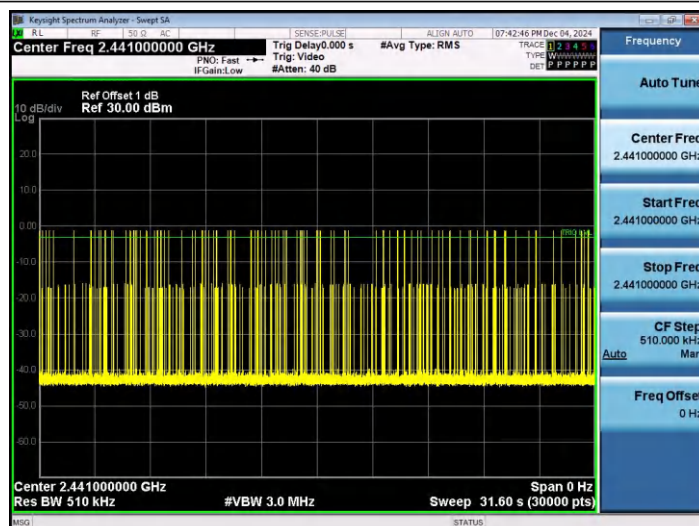


3DH3-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



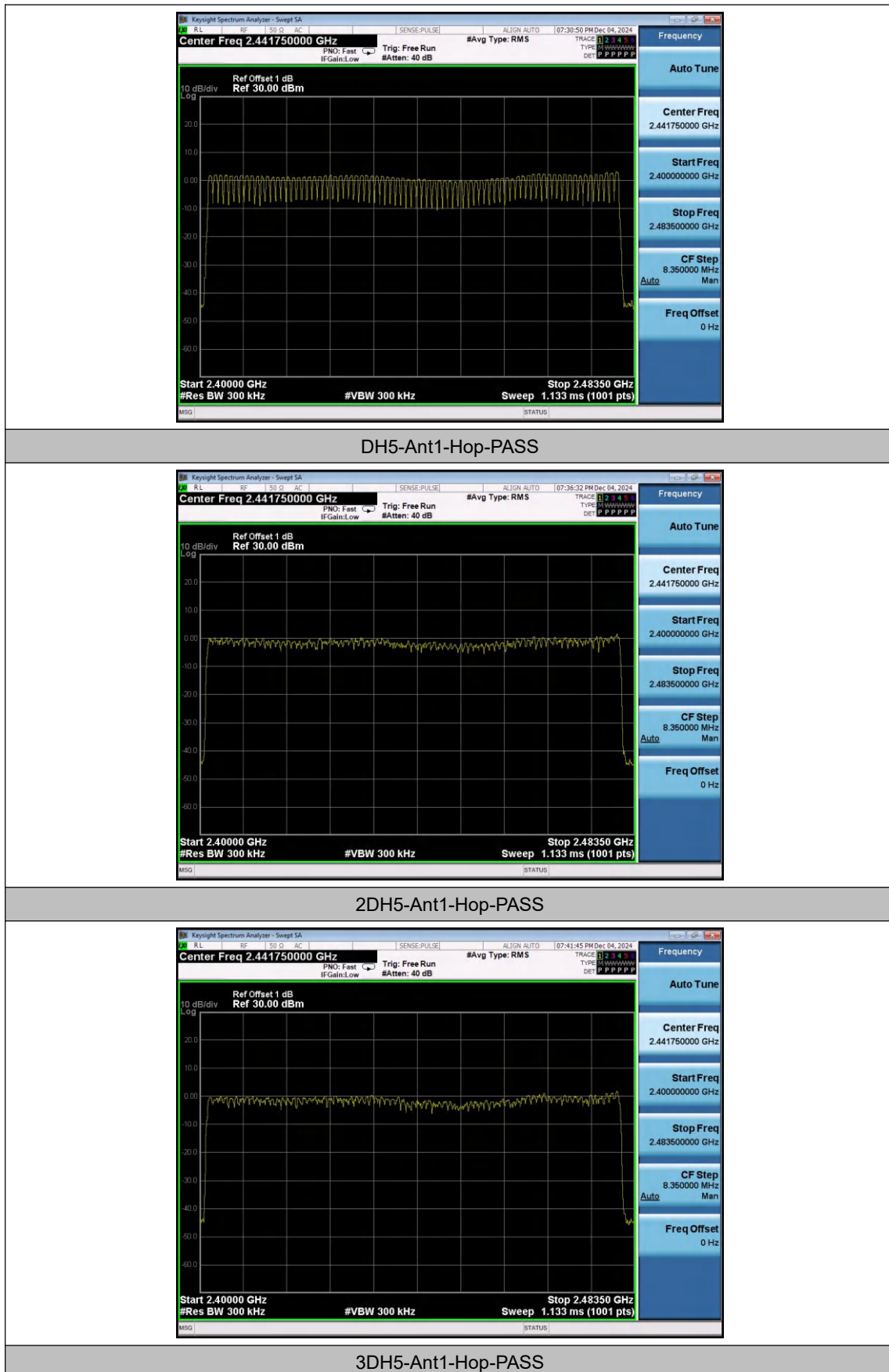
Appendix E: Number of Hopping Channel

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



Test Graphs



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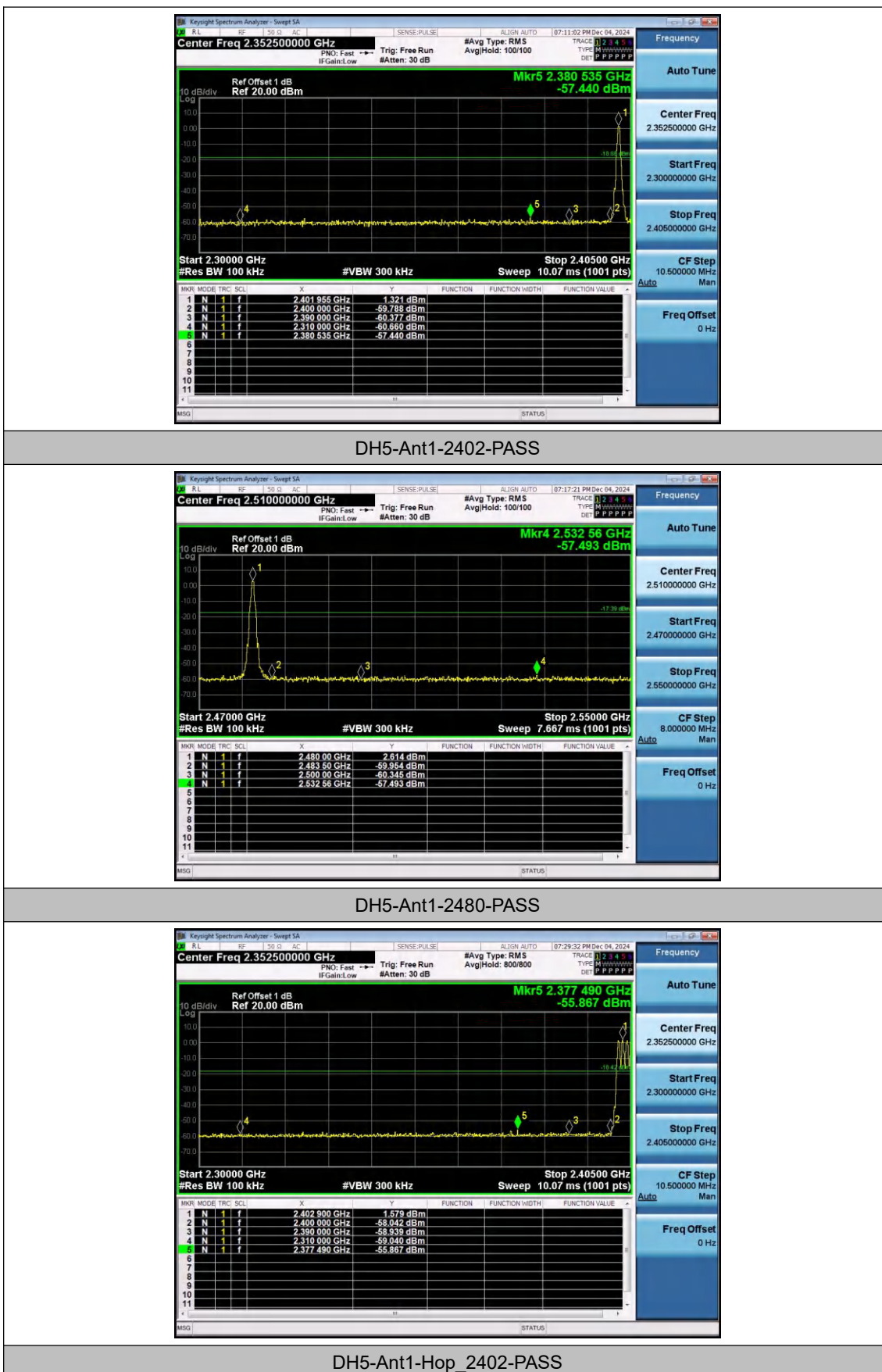
Appendix F: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.32	-57.44	≤-18.68	PASS
DH5	Ant1	High	2480	2.61	-57.49	≤-17.39	PASS
DH5	Ant1	Low	Hop_2402	1.58	-55.87	≤-18.42	PASS
DH5	Ant1	High	Hop_2480	2.44	-44.24	≤-17.56	PASS
2DH5	Ant1	Low	2402	-2.59	-57.46	≤-22.59	PASS
2DH5	Ant1	High	2480	-0.58	-56.75	≤-20.58	PASS
2DH5	Ant1	Low	Hop_2402	-0.92	-56.84	≤-20.92	PASS
2DH5	Ant1	High	Hop_2480	-0.12	-47.9	≤-20.12	PASS
3DH5	Ant1	Low	2402	-2.31	-57.33	≤-22.31	PASS
3DH5	Ant1	High	2480	-0.91	-57.1	≤-20.91	PASS
3DH5	Ant1	Low	Hop_2402	-2.44	-56.69	≤-22.44	PASS
3DH5	Ant1	High	Hop_2480	0.89	-46.97	≤-19.11	PASS



Test Graphs

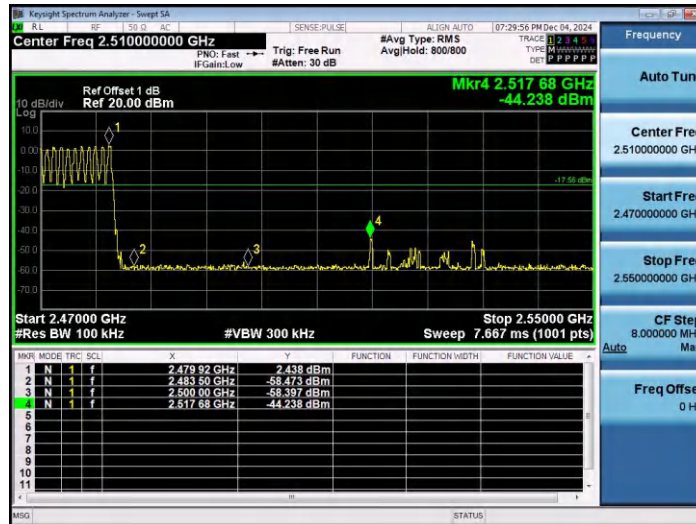


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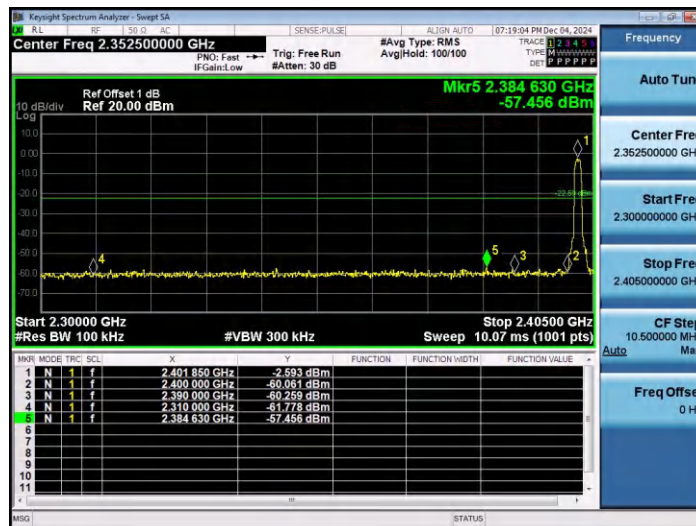
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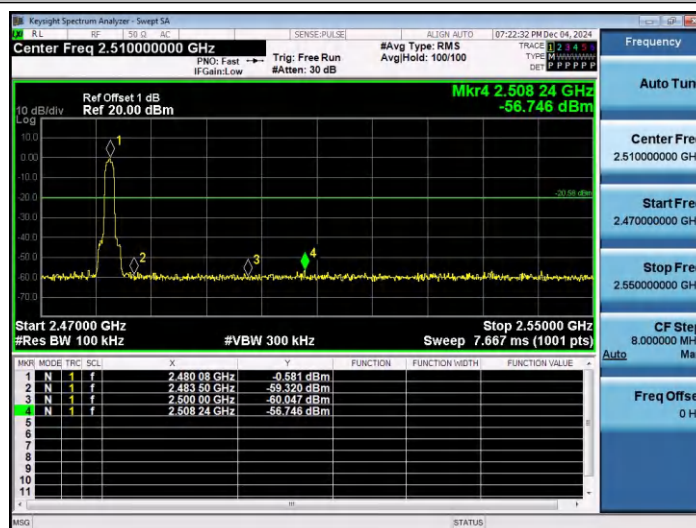




DH5-Ant1-Hop_2480-PASS

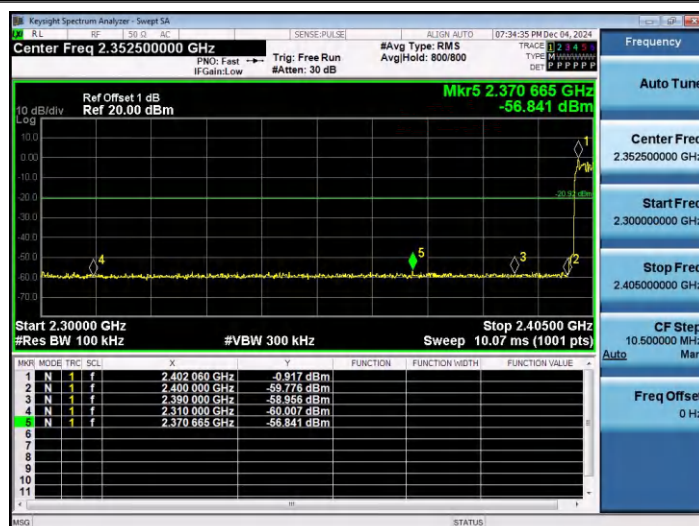


2DH5-Ant1-2402-PASS

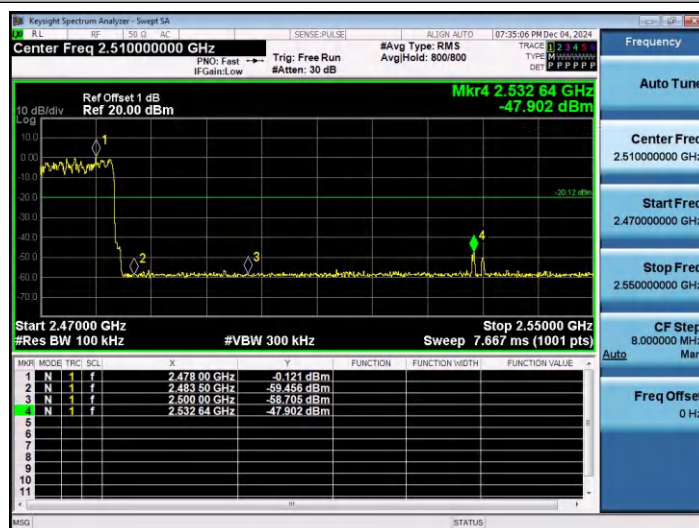


2DH5-Ant1-2480-PASS

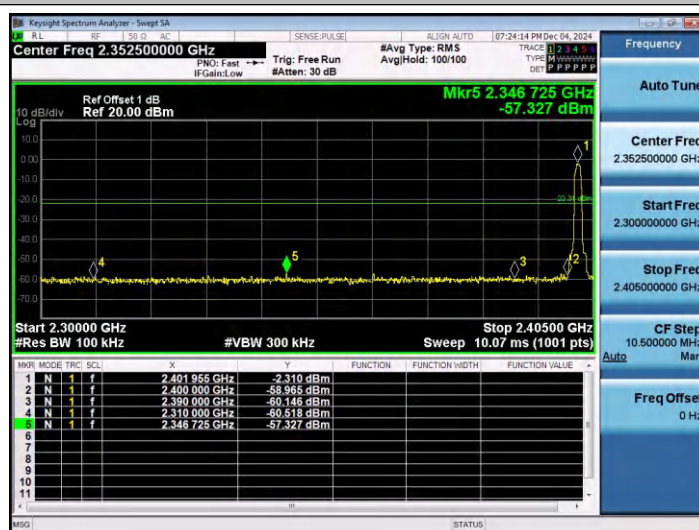




2DH5-Ant1-Hop_2402-PASS

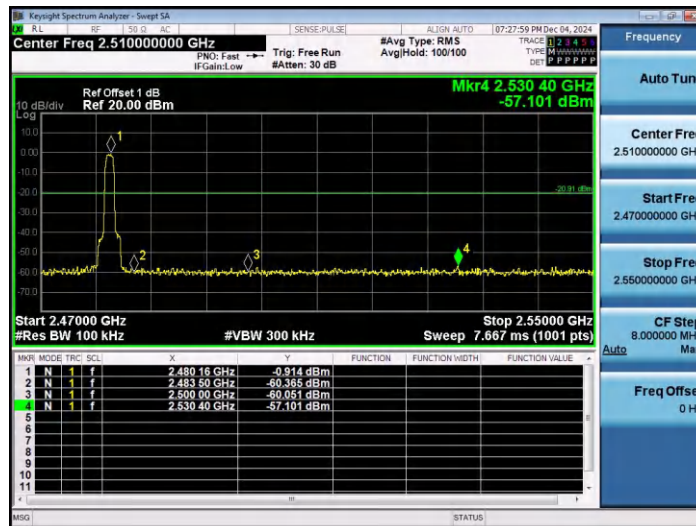


2DH5-Ant1-Hop_2480-PASS

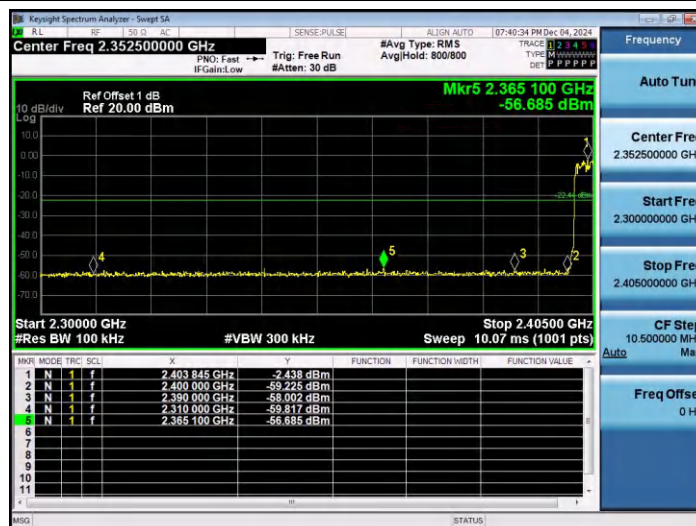


3DH5-Ant1-2402-PASS

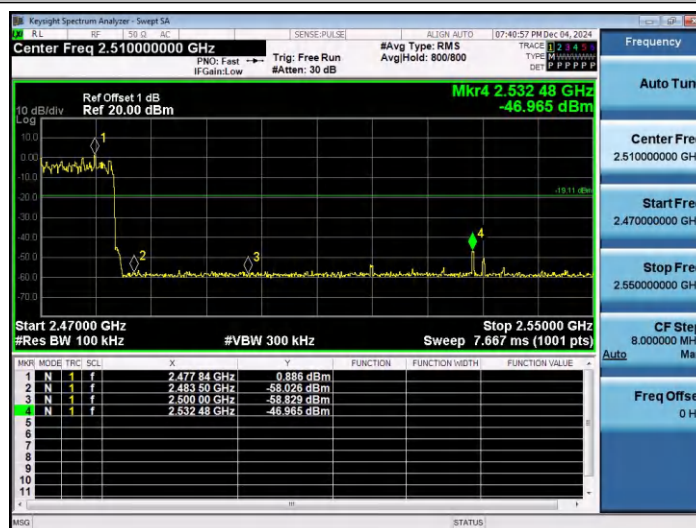




3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS



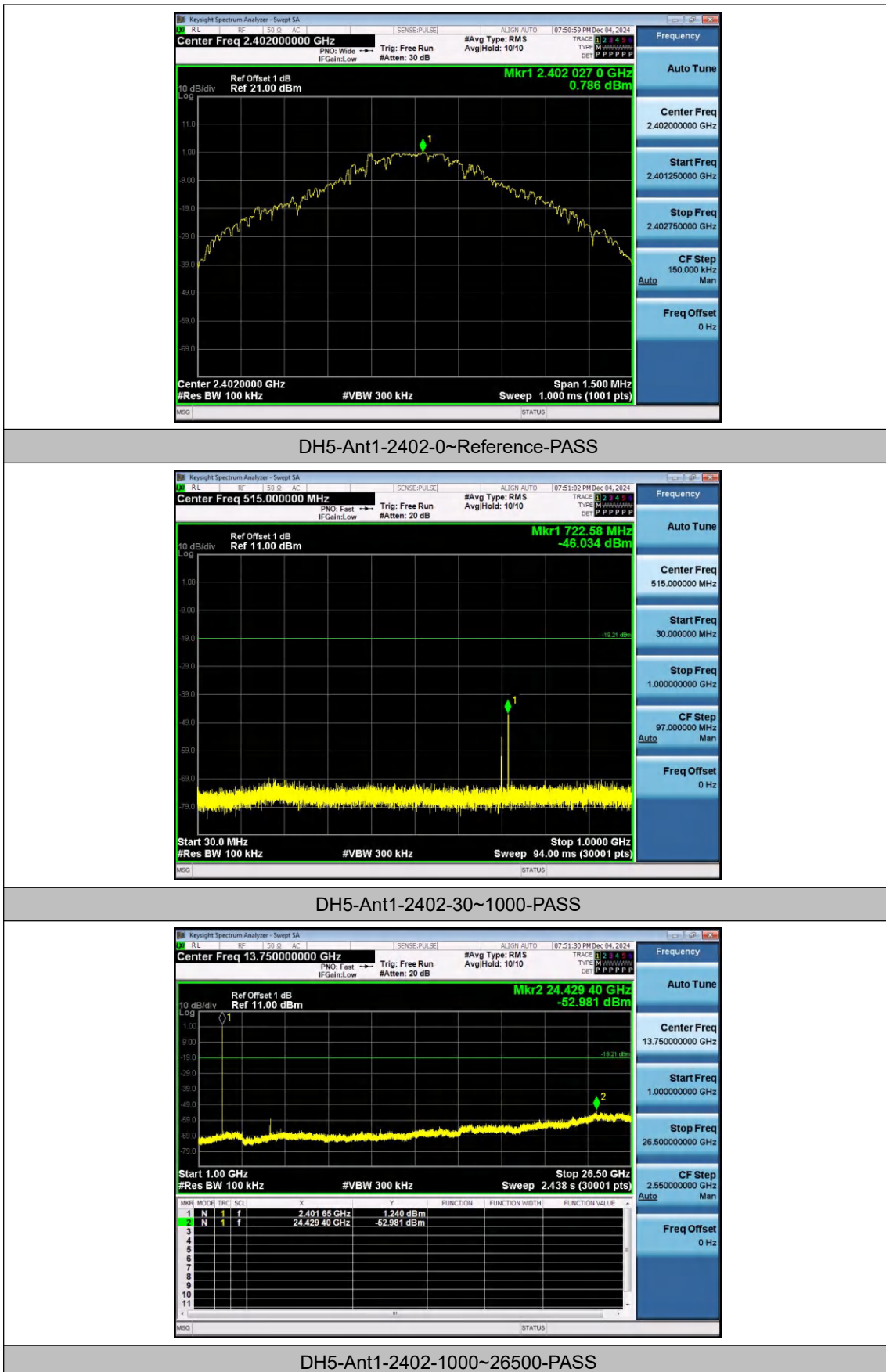
Appendix G: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.79	0.79	---	PASS
DH5	Ant1	2402	30~1000	0.79	-46.03	≤-19.21	PASS
DH5	Ant1	2402	1000~26500	0.79	-52.98	≤-19.21	PASS
DH5	Ant1	2441	0~Reference	-0.58	-0.58	---	PASS
DH5	Ant1	2441	30~1000	-0.58	-56.37	≤-20.58	PASS
DH5	Ant1	2441	1000~26500	-0.58	-53.22	≤-20.58	PASS
DH5	Ant1	2480	0~Reference	2.32	2.32	---	PASS
DH5	Ant1	2480	30~1000	2.32	-60.81	≤-17.68	PASS
DH5	Ant1	2480	1000~26500	2.32	-53.53	≤-17.68	PASS
2DH5	Ant1	2402	0~Reference	-2.61	-2.61	---	PASS
2DH5	Ant1	2402	30~1000	-2.61	-68.72	≤-22.61	PASS
2DH5	Ant1	2402	1000~26500	-2.61	-52.39	≤-22.61	PASS
2DH5	Ant1	2441	0~Reference	-4.23	-4.23	---	PASS
2DH5	Ant1	2441	30~1000	-4.23	-58.47	≤-24.23	PASS
2DH5	Ant1	2441	1000~26500	-4.23	-53.18	≤-24.23	PASS
2DH5	Ant1	2480	0~Reference	-1.27	-1.27	---	PASS
2DH5	Ant1	2480	30~1000	-1.27	-68.1	≤-21.27	PASS
2DH5	Ant1	2480	1000~26500	-1.27	-53.02	≤-21.27	PASS
3DH5	Ant1	2402	0~Reference	-2.62	-2.62	---	PASS
3DH5	Ant1	2402	30~1000	-2.62	-68.24	≤-22.62	PASS
3DH5	Ant1	2402	1000~26500	-2.62	-53	≤-22.62	PASS
3DH5	Ant1	2441	0~Reference	-3.94	-3.94	---	PASS
3DH5	Ant1	2441	30~1000	-3.94	-68.51	≤-23.94	PASS
3DH5	Ant1	2441	1000~26500	-3.94	-53.54	≤-23.94	PASS
3DH5	Ant1	2480	0~Reference	-0.85	-0.85	---	PASS
3DH5	Ant1	2480	30~1000	-0.85	-67.9	≤-20.85	PASS
3DH5	Ant1	2480	1000~26500	-0.85	-53.32	≤-20.85	PASS



Test Graphs

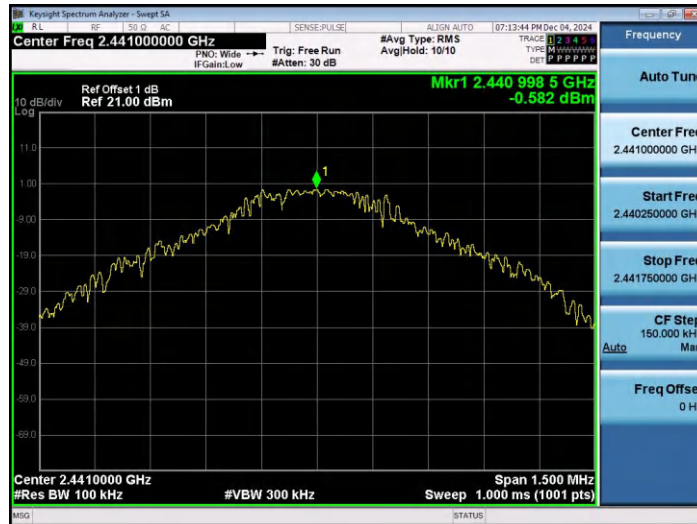


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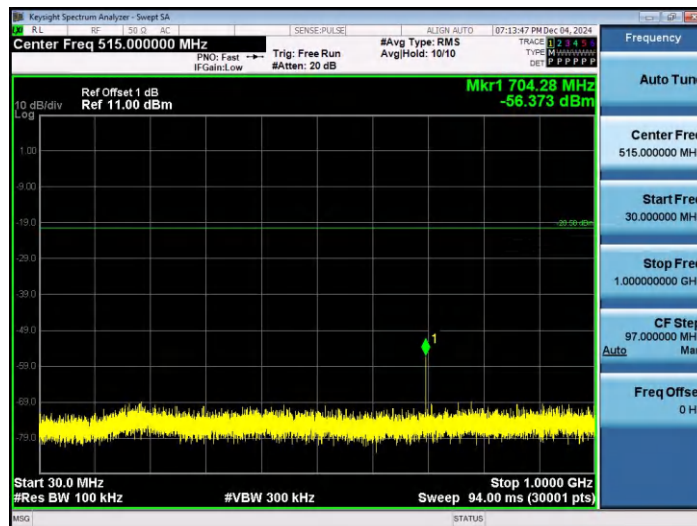
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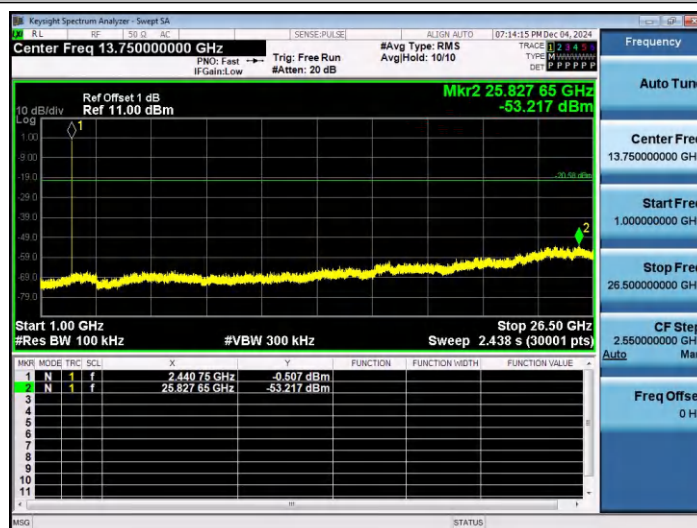




DH5-Ant1-2441-0~Reference-PASS

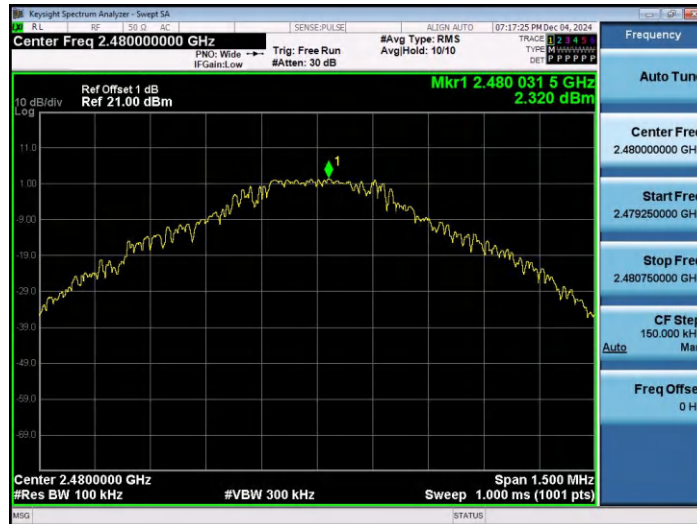


DH5-Ant1-2441-30~1000-PASS

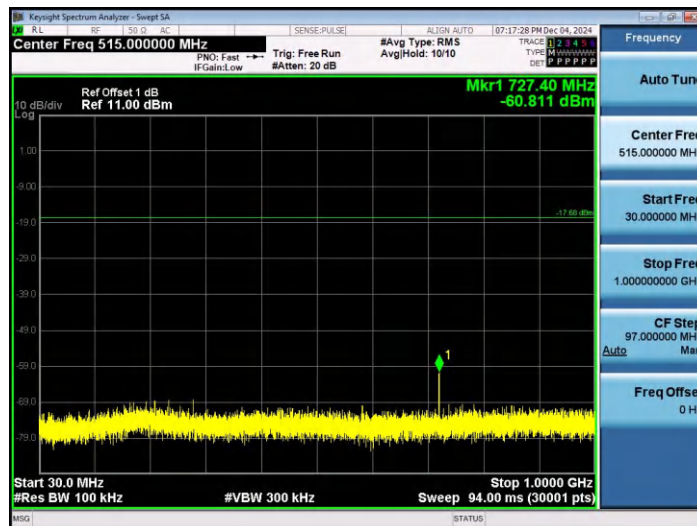


DH5-Ant1-2441-1000~26500-PASS

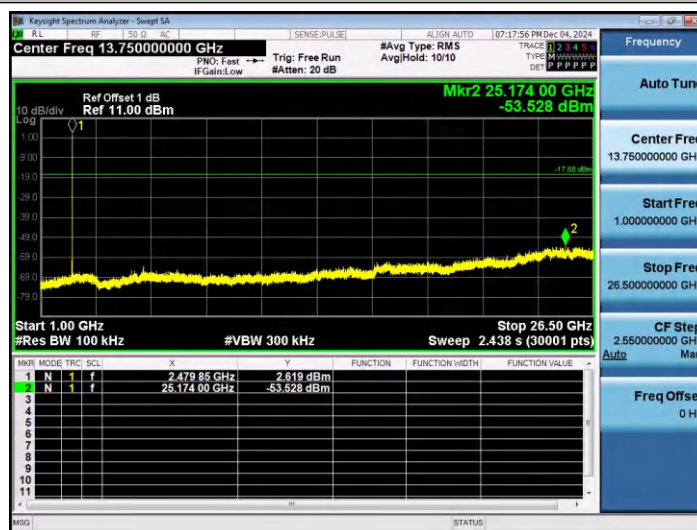




DH5-Ant1-2480-0~Reference-PASS

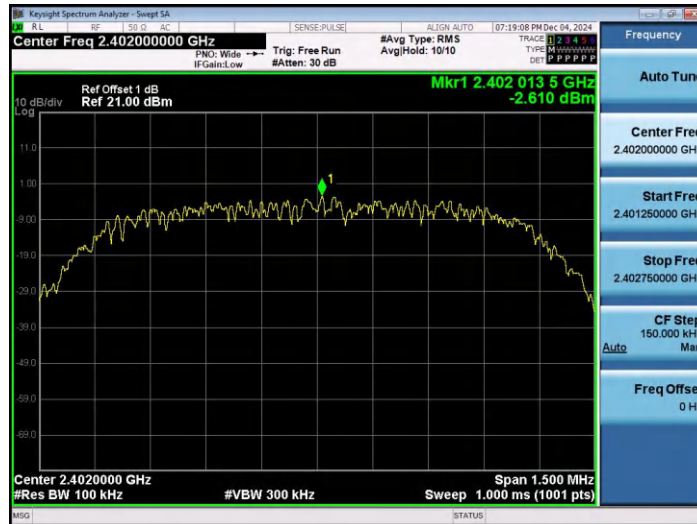


DH5-Ant1-2480-30~1000-PASS

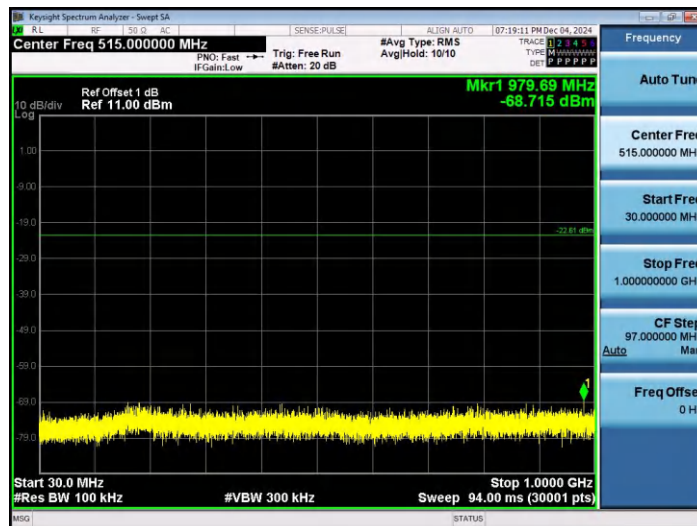


DH5-Ant1-2480-1000~26500-PASS

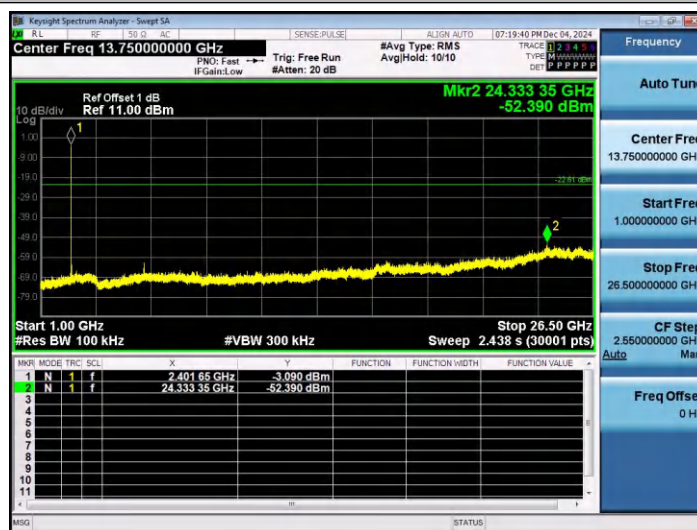




2DH5-Ant1-2402-0~Reference-PASS

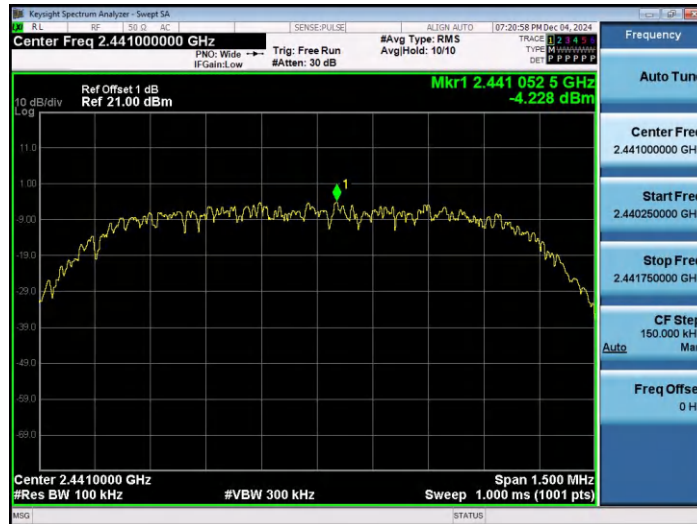


2DH5-Ant1-2402-30~1000-PASS

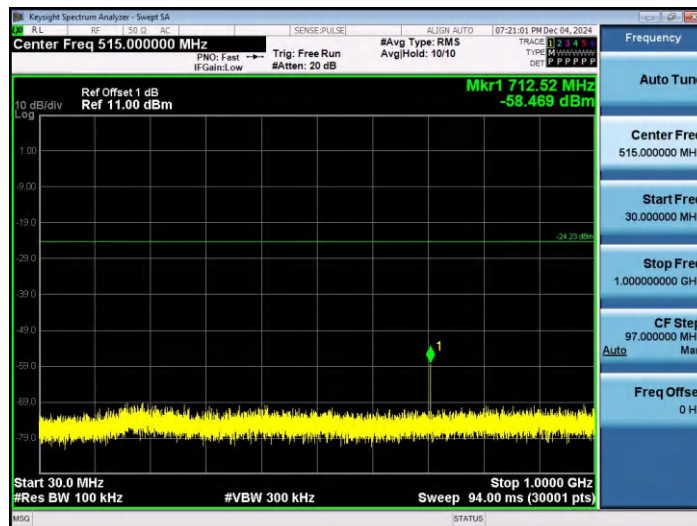


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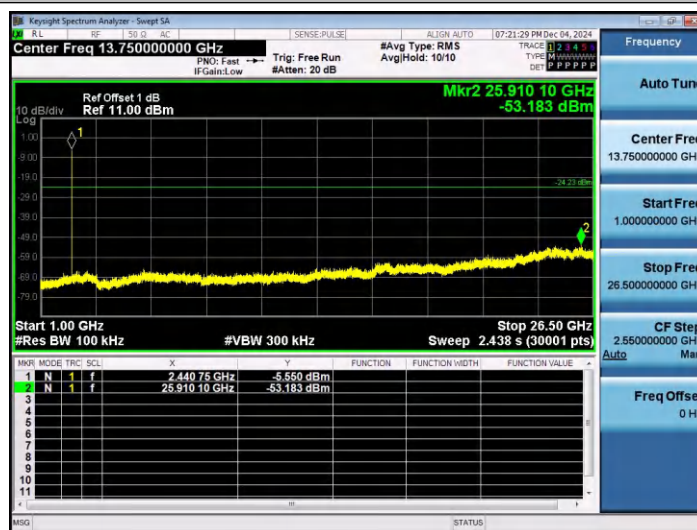




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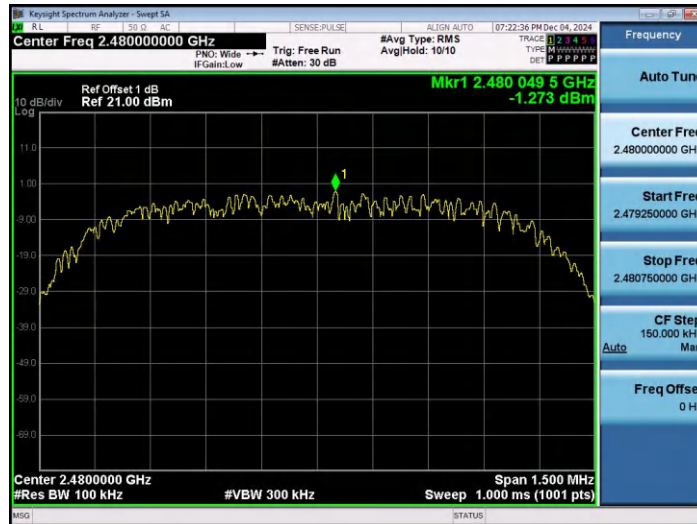


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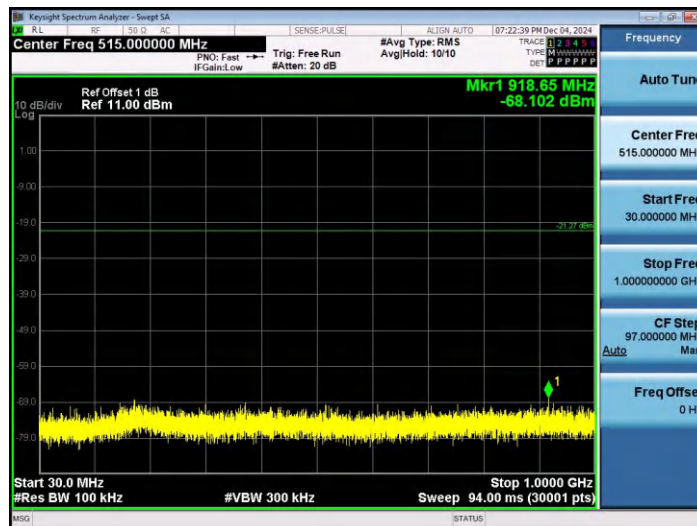


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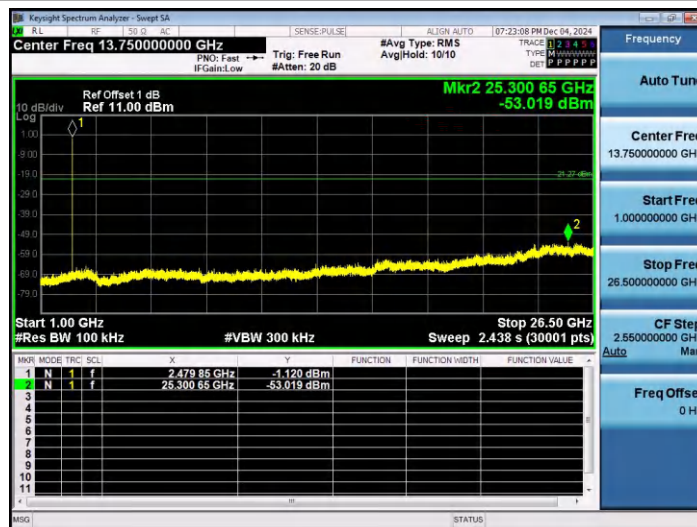




2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS

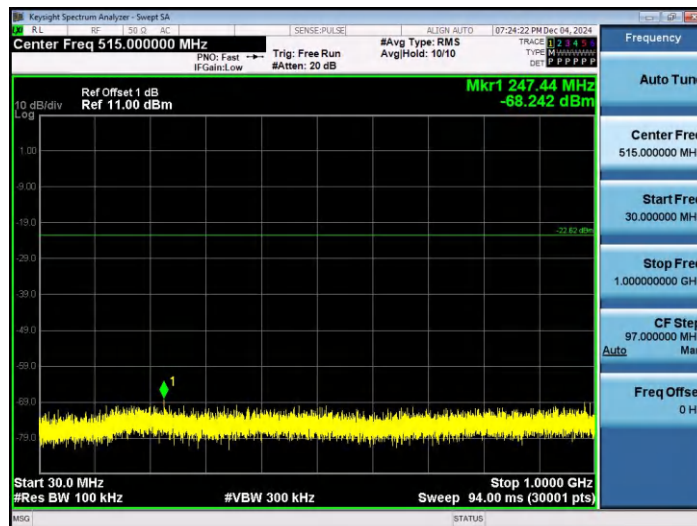


2DH5-Ant1-2480-1000~26500-PASS

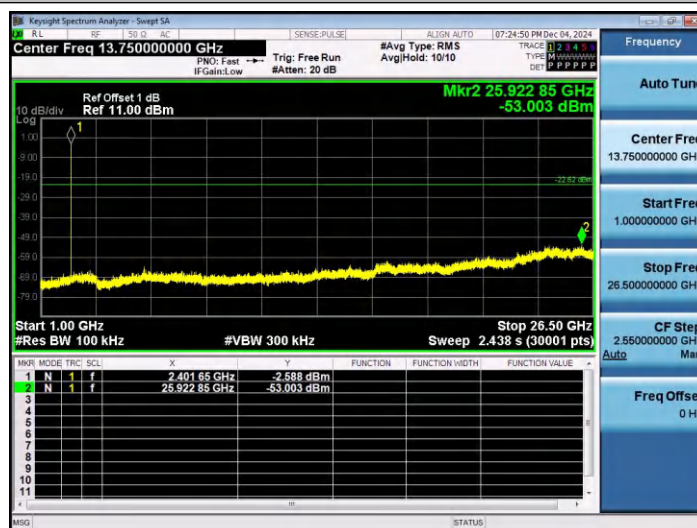




3DH5-Ant1-2402-0~Reference-PASS



3DH5-Ant1-2402-30~1000-PASS

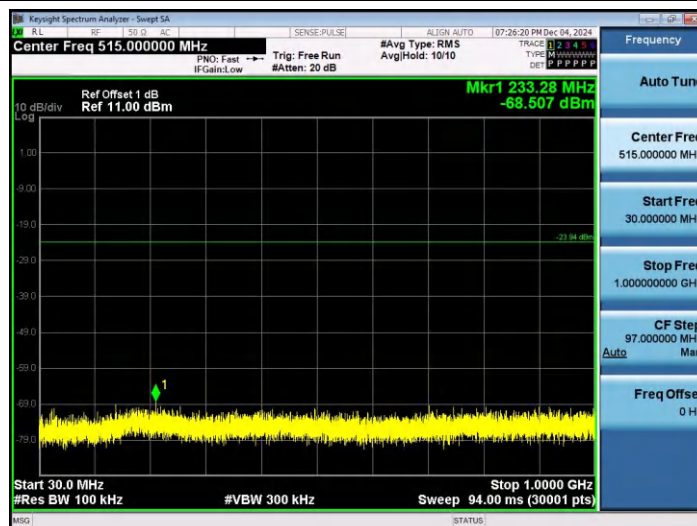


3DH5-Ant1-2402-1000~26500-PASS

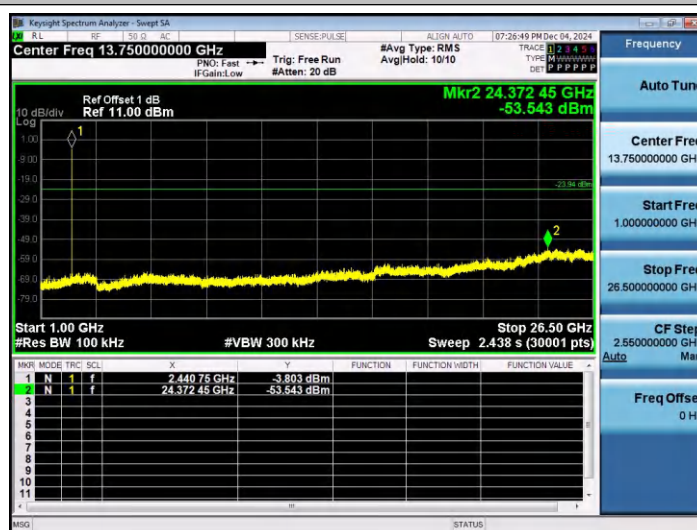




3DH5-Ant1-2441-0~Reference-PASS

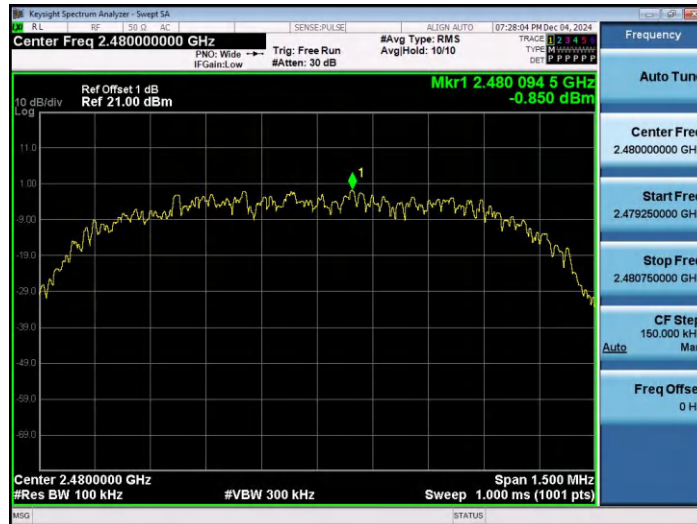


3DH5-Ant1-2441-30~1000-PASS

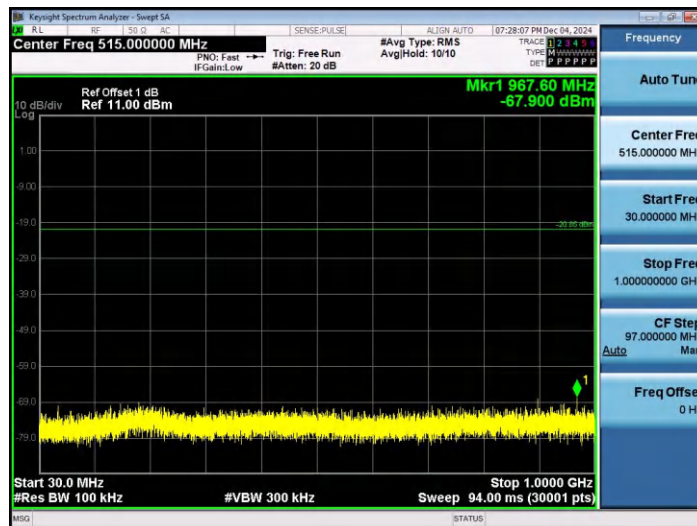


3DH5-Ant1-2441-1000~26500-PASS

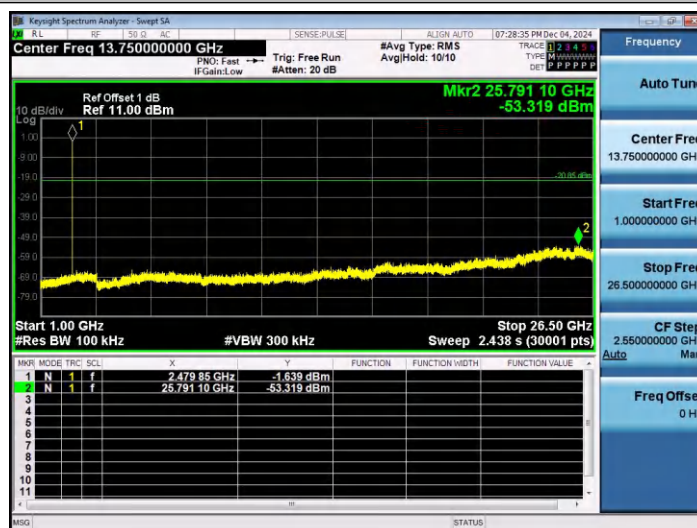




3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



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



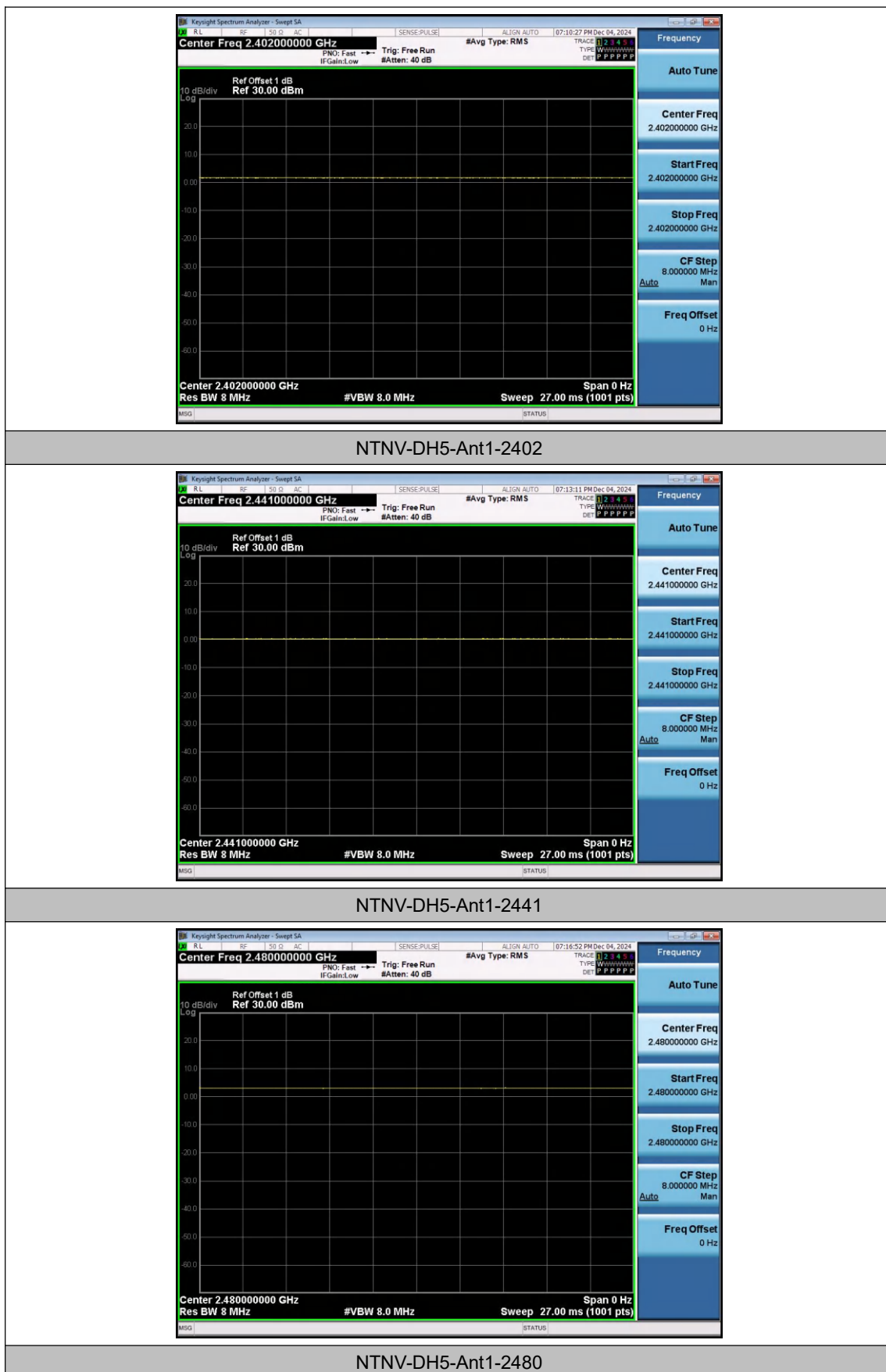
Appendix H: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	27.00	27.00	100.00	0.00
DH5	Ant1	2441	27.00	27.00	100.00	0.00
DH5	Ant1	2480	27.00	27.00	100.00	0.00
2DH5	Ant1	2402	27.00	27.00	100.00	0.00
2DH5	Ant1	2441	27.00	27.00	100.00	0.00
2DH5	Ant1	2480	27.00	27.00	100.00	0.00
3DH5	Ant1	2402	27.00	27.00	100.00	0.00
3DH5	Ant1	2441	27.00	27.00	100.00	0.00
3DH5	Ant1	2480	27.00	27.00	100.00	0.00



Test Graphs

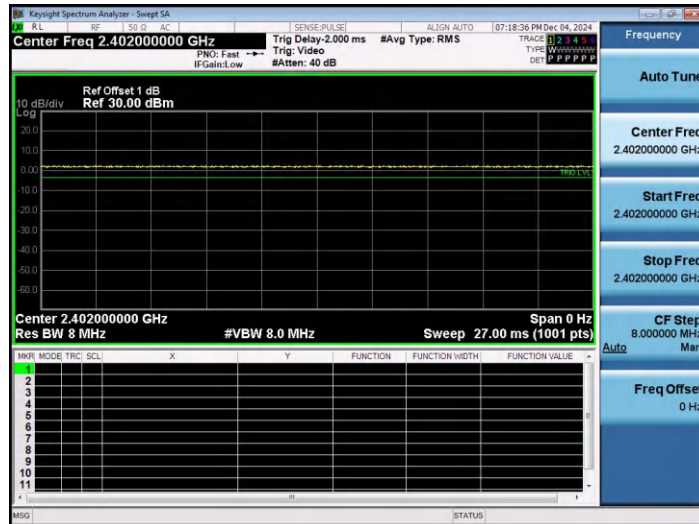


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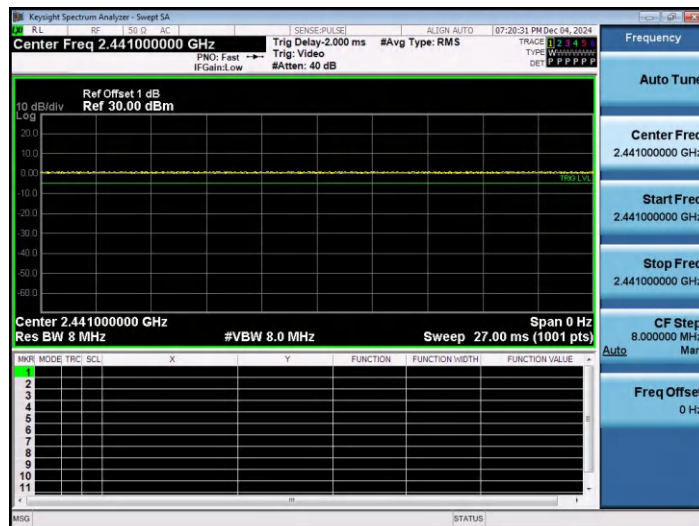
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

Hotline
400-003-0500
www.anbotek.com

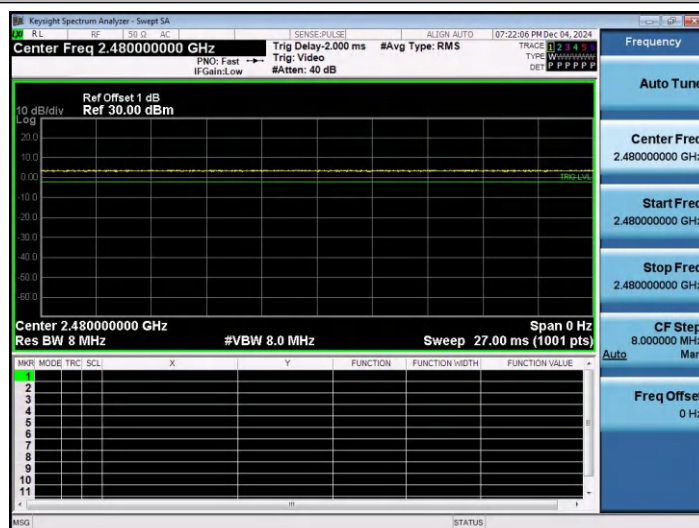




NTNV-2DH5-Ant1-2402

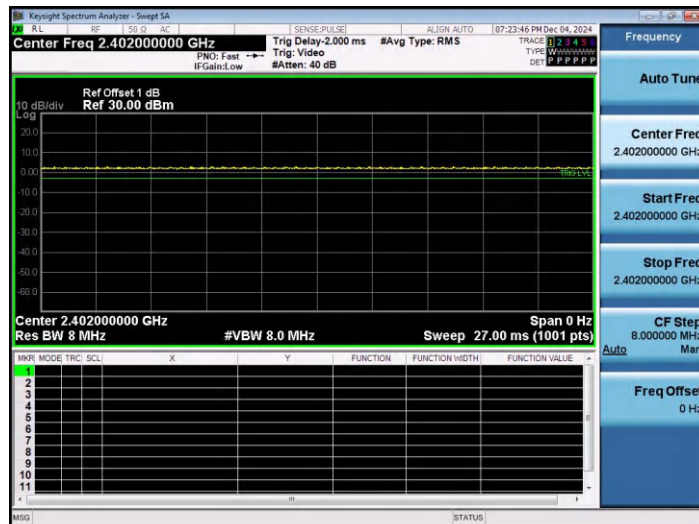


NTNV-2DH5-Ant1-2441

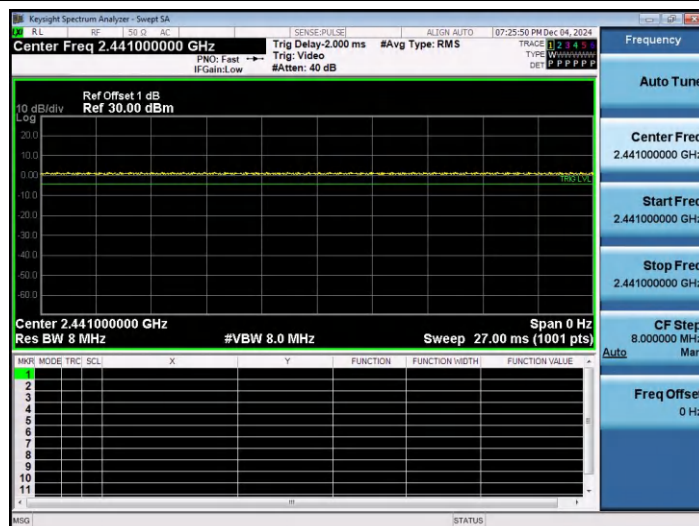


NTNV-2DH5-Ant1-2480

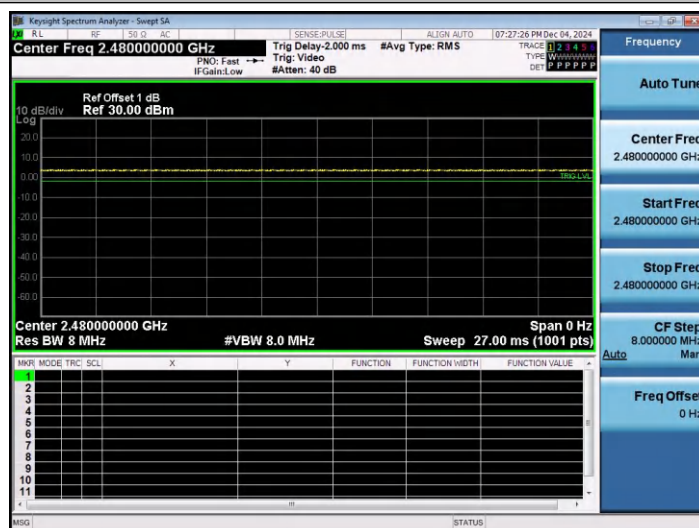




NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

---End---

