

Appendix Test Data

Report No.:	18220WC30270401	Test Sample No.:	1-2-2
Start Test Date:	2024.2.19	Finish Test Date:	2024.2.19
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25℃	Relative Humidity:	46%
Pressure:	101kPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.023	2401.484	2402.507	---	---
		2441	0.927	2440.547	2441.474	---	---
		2480	1.002	2479.514	2480.516	---	---
2DH5	Ant1	2402	1.305	2401.349	2402.654	---	---
		2441	1.320	2440.334	2441.654	---	---
		2480	1.302	2479.340	2480.642	---	---
3DH5	Ant1	2402	1.356	2401.325	2402.681	---	---
		2441	1.293	2440.361	2441.654	---	---
		2480	1.287	2479.358	2480.645	---	---



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89703	2401.5652	2402.4623	---	---
		2441	0.90083	2440.5655	2441.4663	---	---
		2480	0.86608	2479.5806	2480.4467	---	---
2DH5	Ant1	2402	1.1824	2401.4077	2402.5901	---	---
		2441	1.1802	2440.4117	2441.5919	---	---
		2480	1.1950	2479.4061	2480.6011	---	---
3DH5	Ant1	2402	1.1869	2401.4113	2402.5982	---	---
		2441	1.1903	2440.4059	2441.5962	---	---
		2480	1.1777	2479.4157	2480.5934	---	---



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480

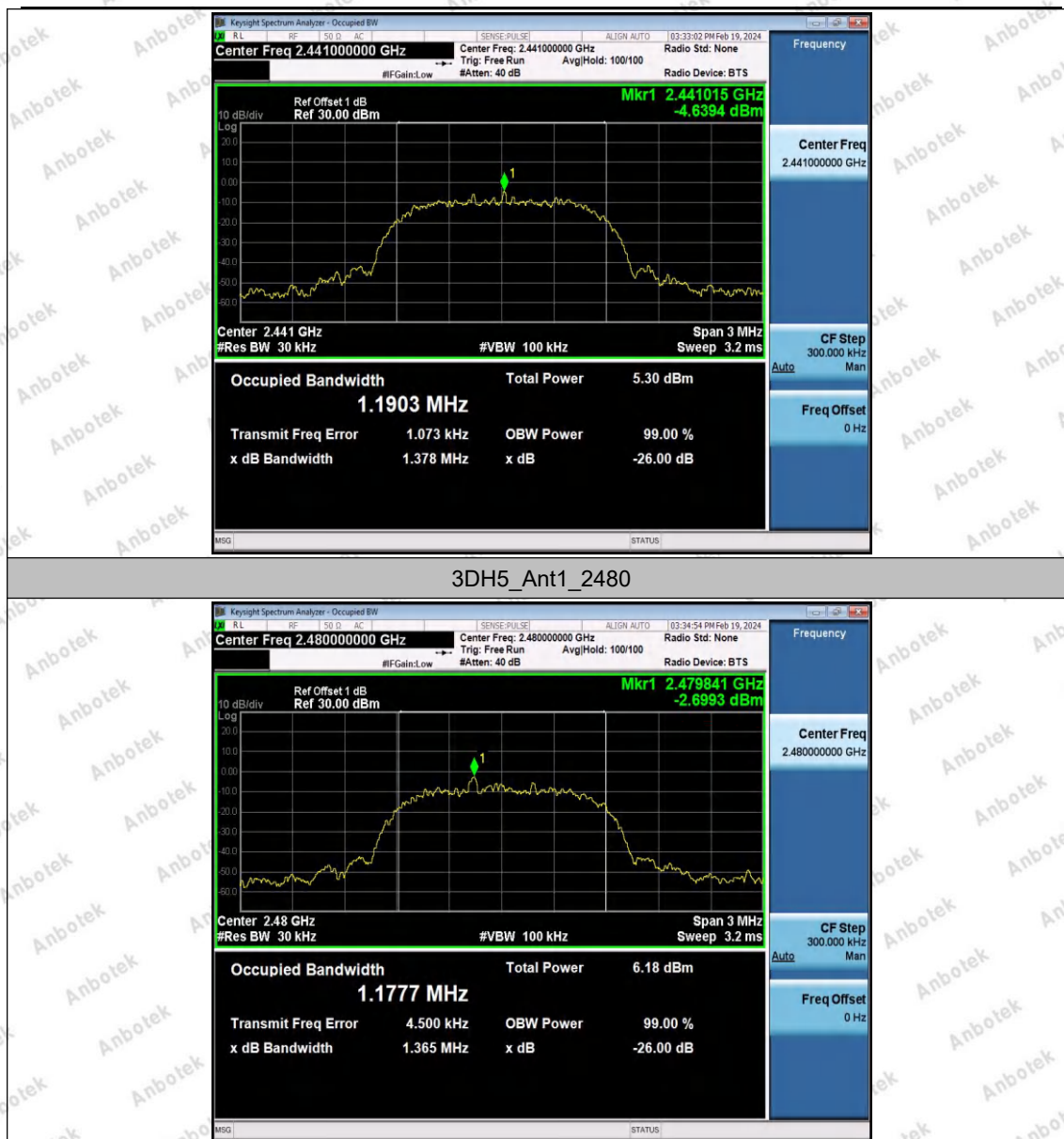


3DH5_Ant1_2402



3DH5_Ant1_2441





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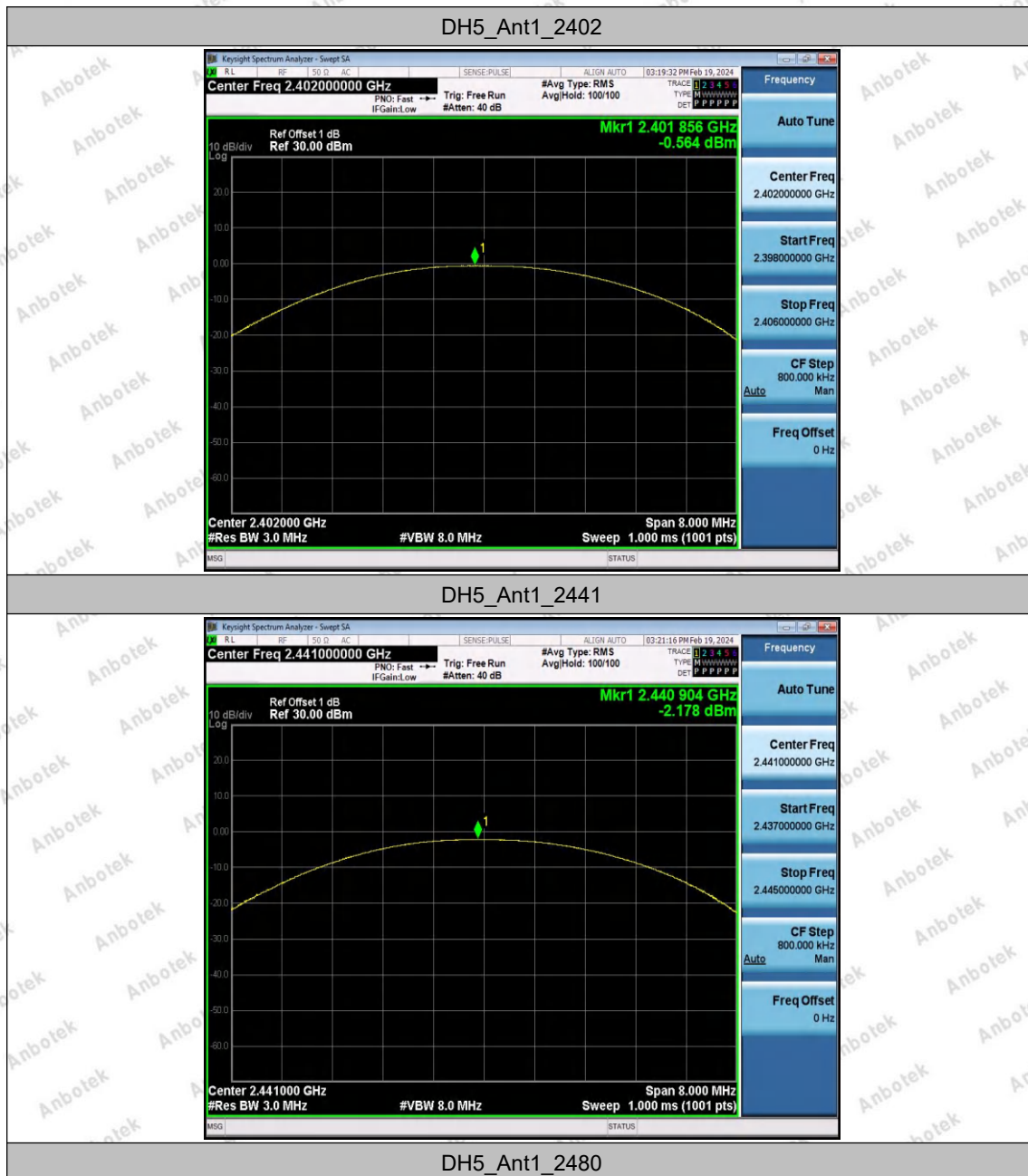
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.56	≤20.97	PASS
		2441	-2.18	≤20.97	PASS
		2480	-1.85	≤20.97	PASS
2DH5	Ant1	2402	1.75	≤20.97	PASS
		2441	0.21	≤20.97	PASS
		2480	0.44	≤20.97	PASS
3DH5	Ant1	2402	2.32	≤20.97	PASS
		2441	0.72	≤20.97	PASS
		2480	1.05	≤20.97	PASS



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

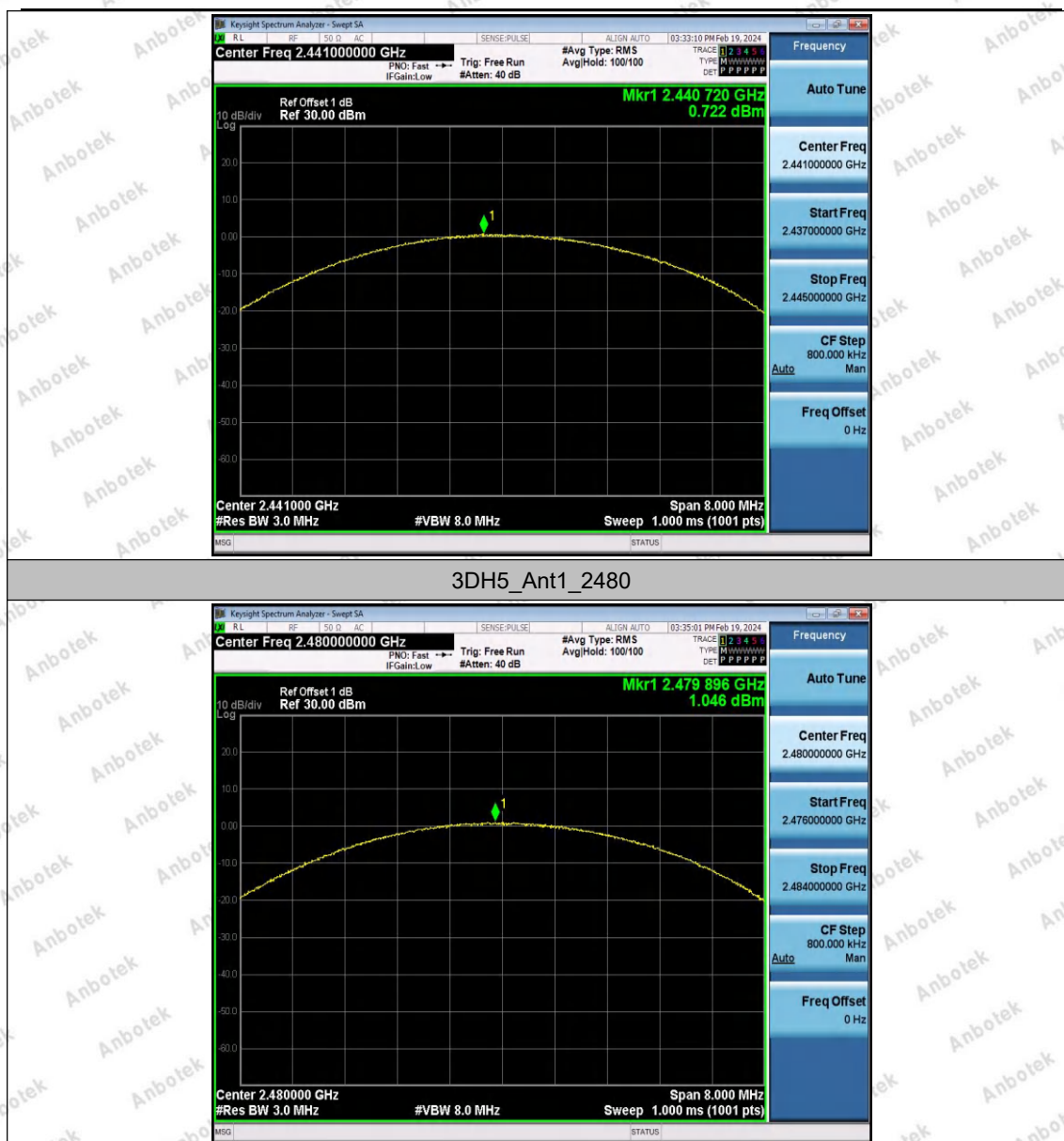
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥0.682	PASS
2DH5	Ant1	Hop	1.012	≥0.880	PASS
3DH5	Ant1	Hop	1.158	≥0.904	PASS

Test Graphs





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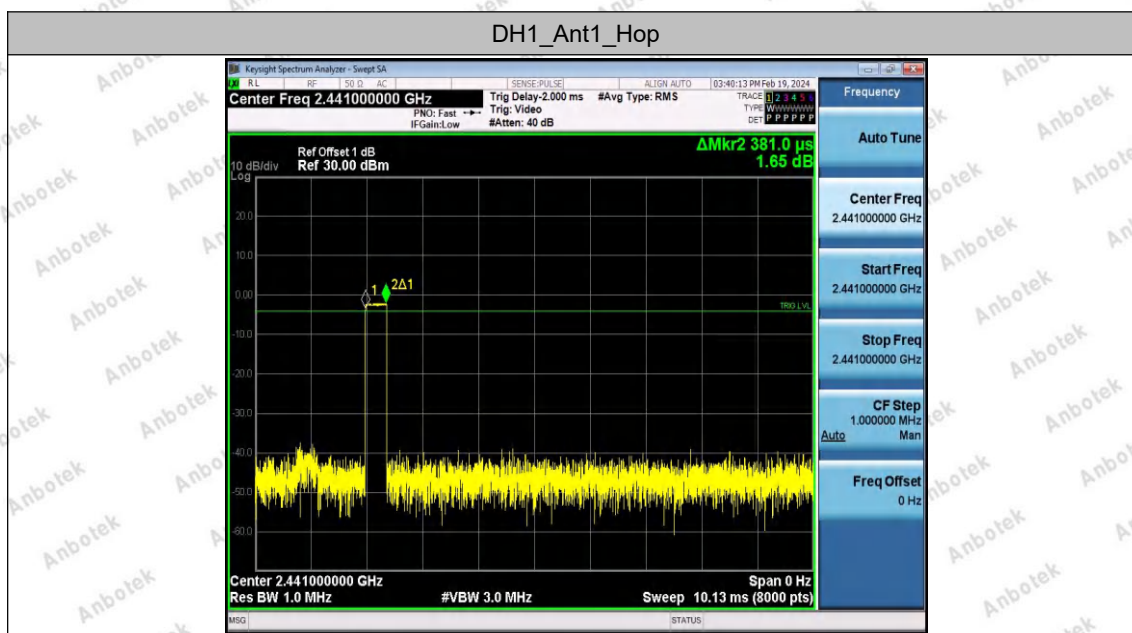


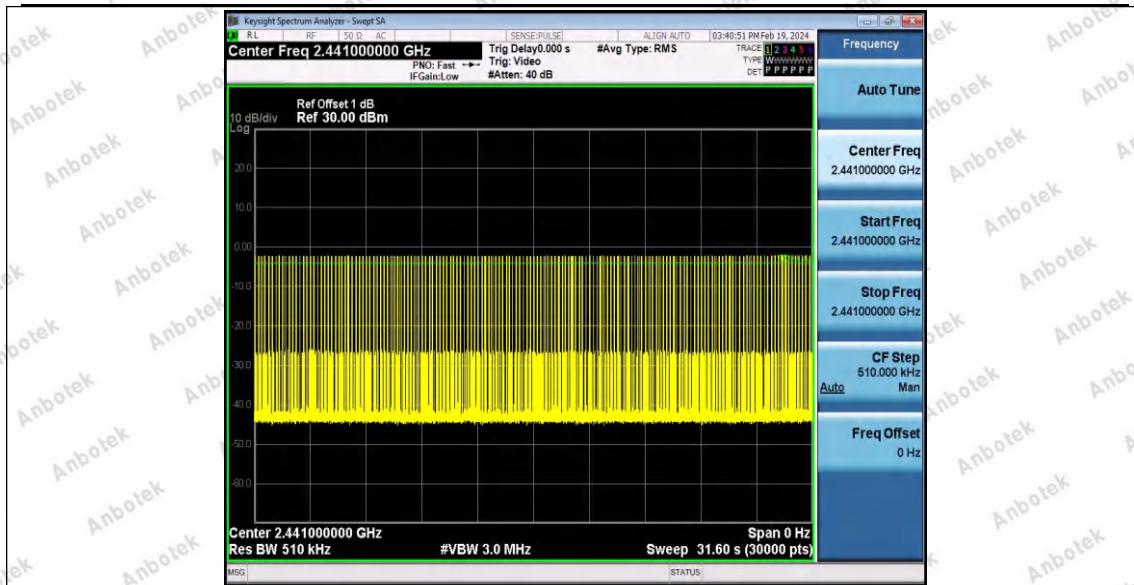
Appendix E: Time of occupancy

Test Result

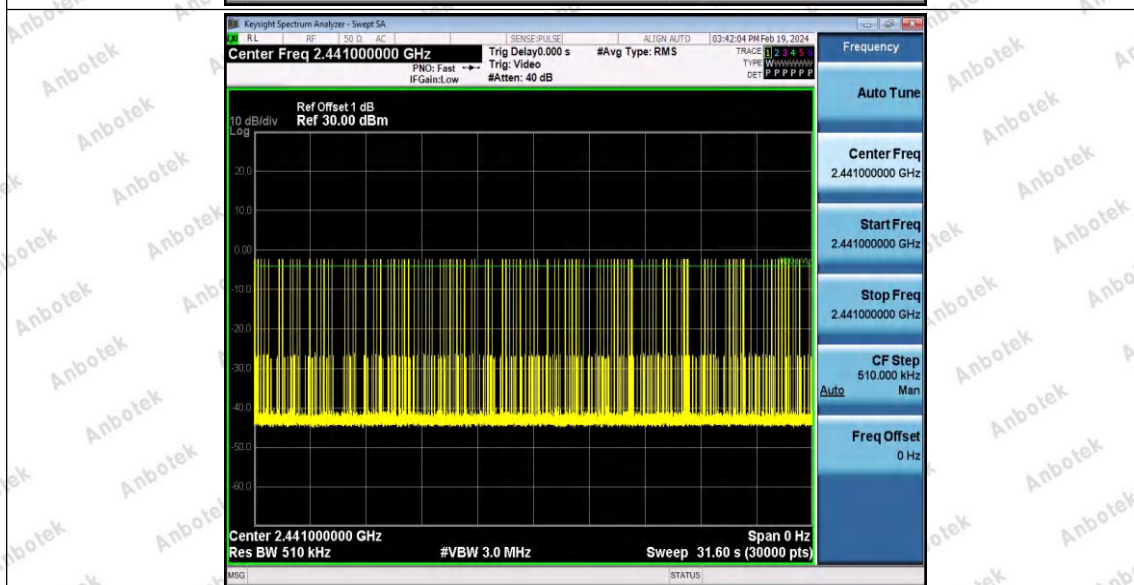
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.381	317	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.638	156	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.885	113	0.326	≤0.4	PASS
2DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.642	153	0.251	≤0.4	PASS
2DH5	Ant1	Hop	2.891	95	0.275	≤0.4	PASS
3DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	163	0.267	≤0.4	PASS
3DH5	Ant1	Hop	2.892	100	0.289	≤0.4	PASS

Test Graphs





DH3_Ant1_Hop



DH5_Ant1_Hop

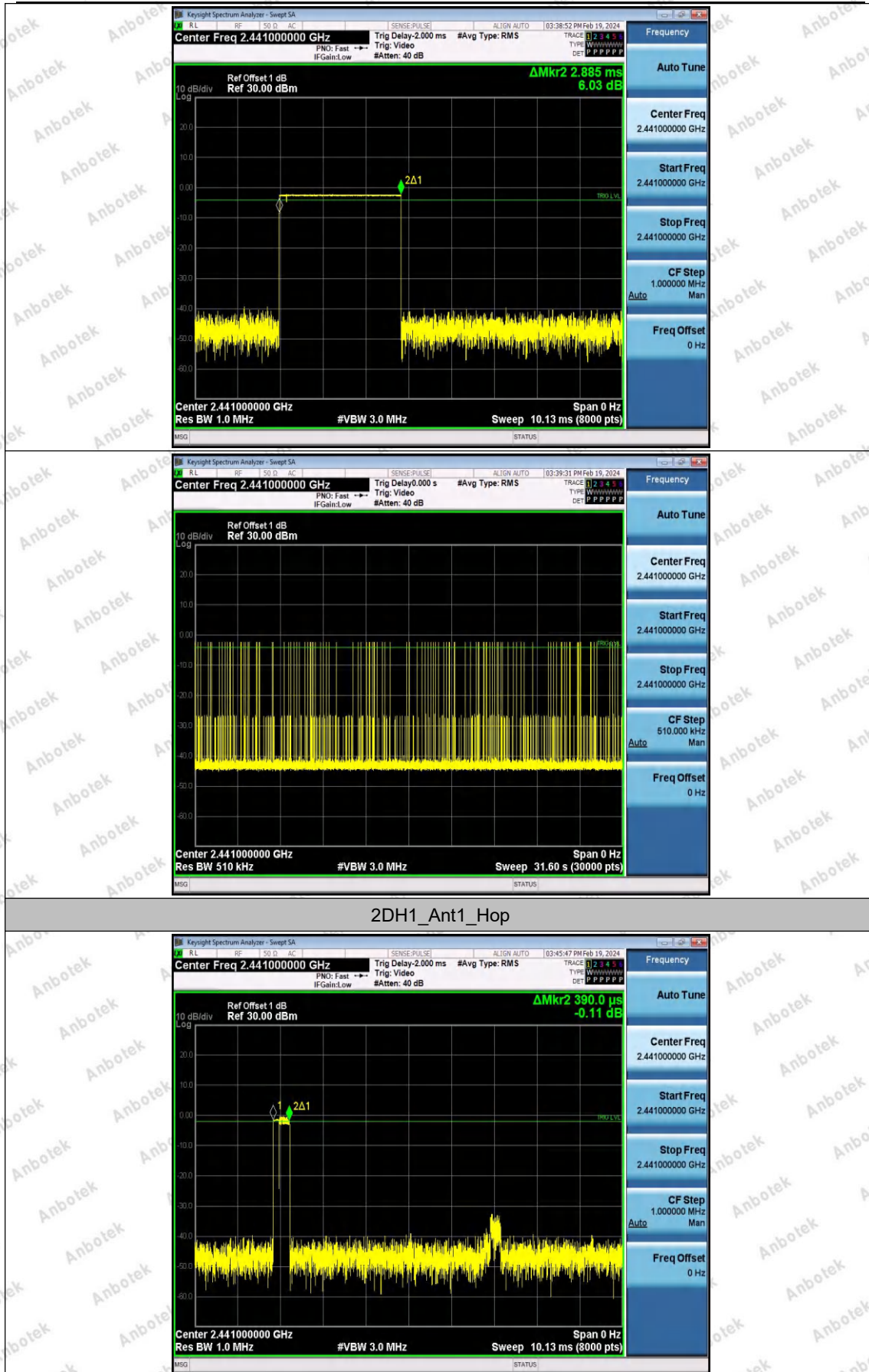
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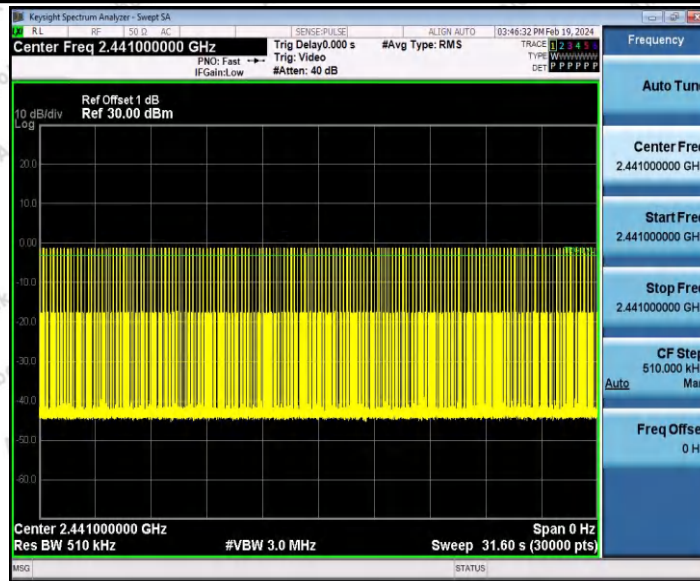
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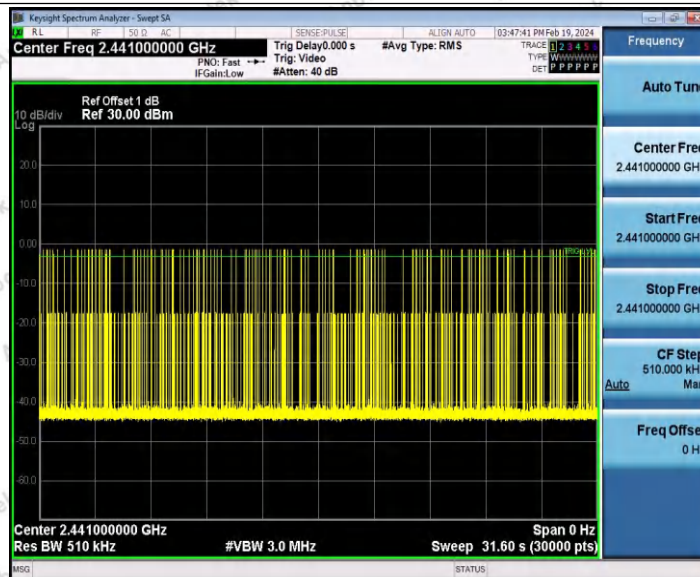
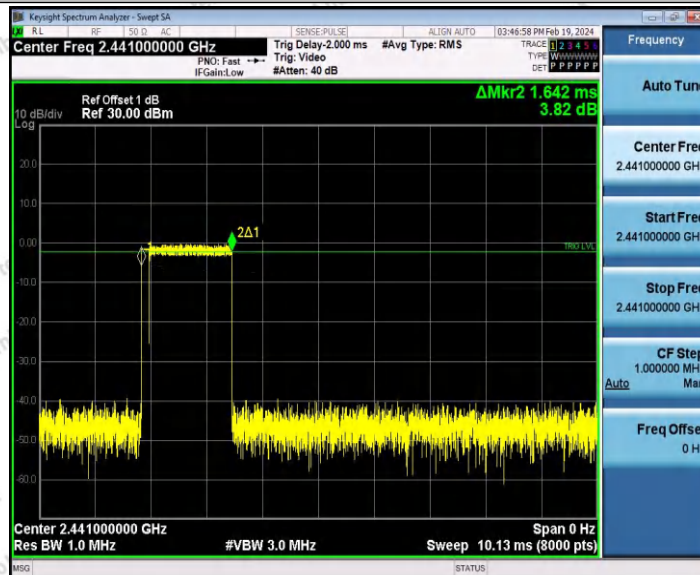


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2DH3_Ant1_Hop



2DH5_Ant1_Hop

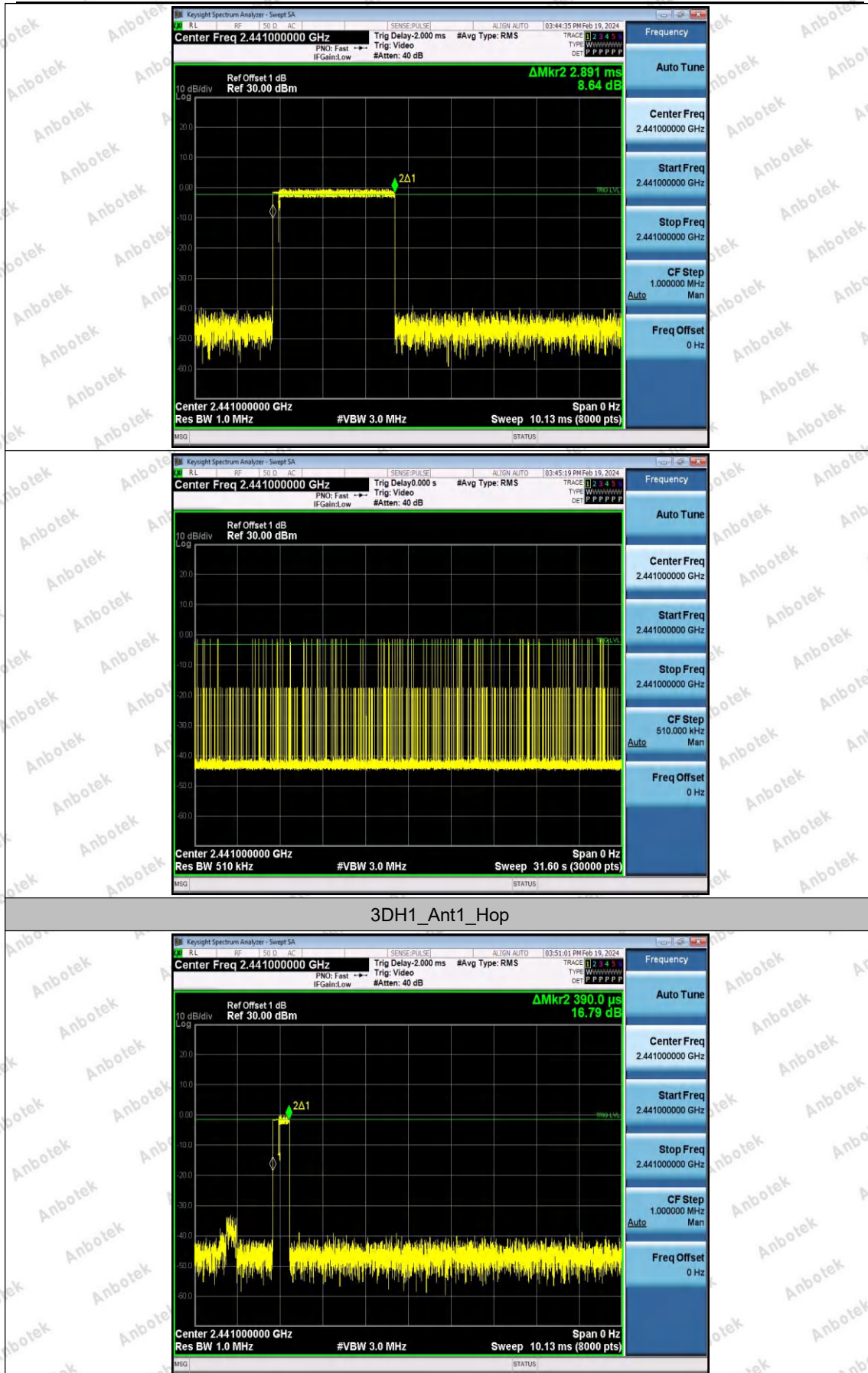
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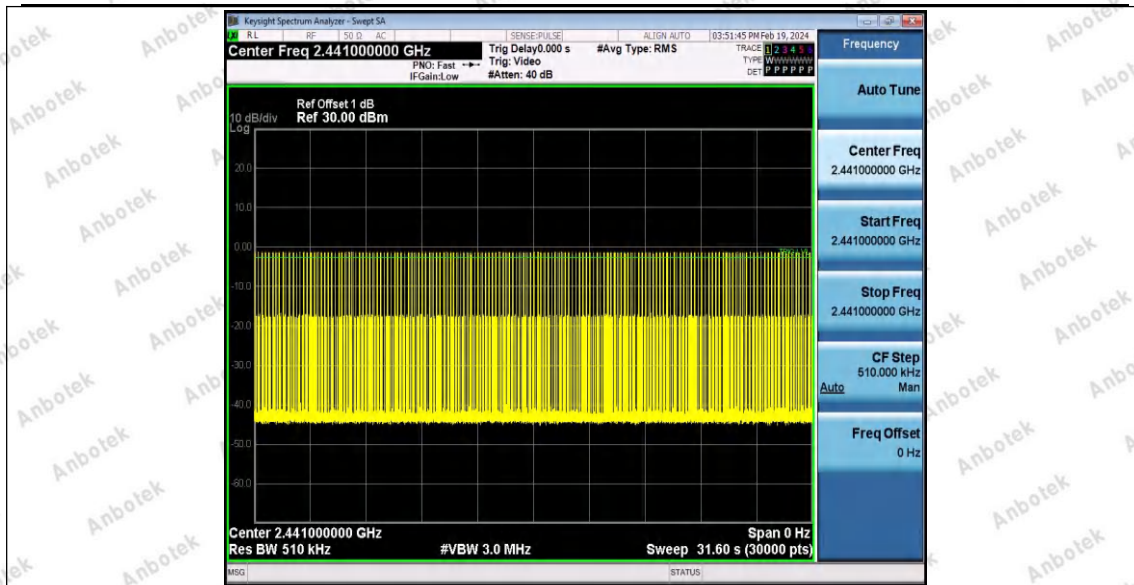
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3DH3_Ant1_Hop



3DH5_Ant1_Hop

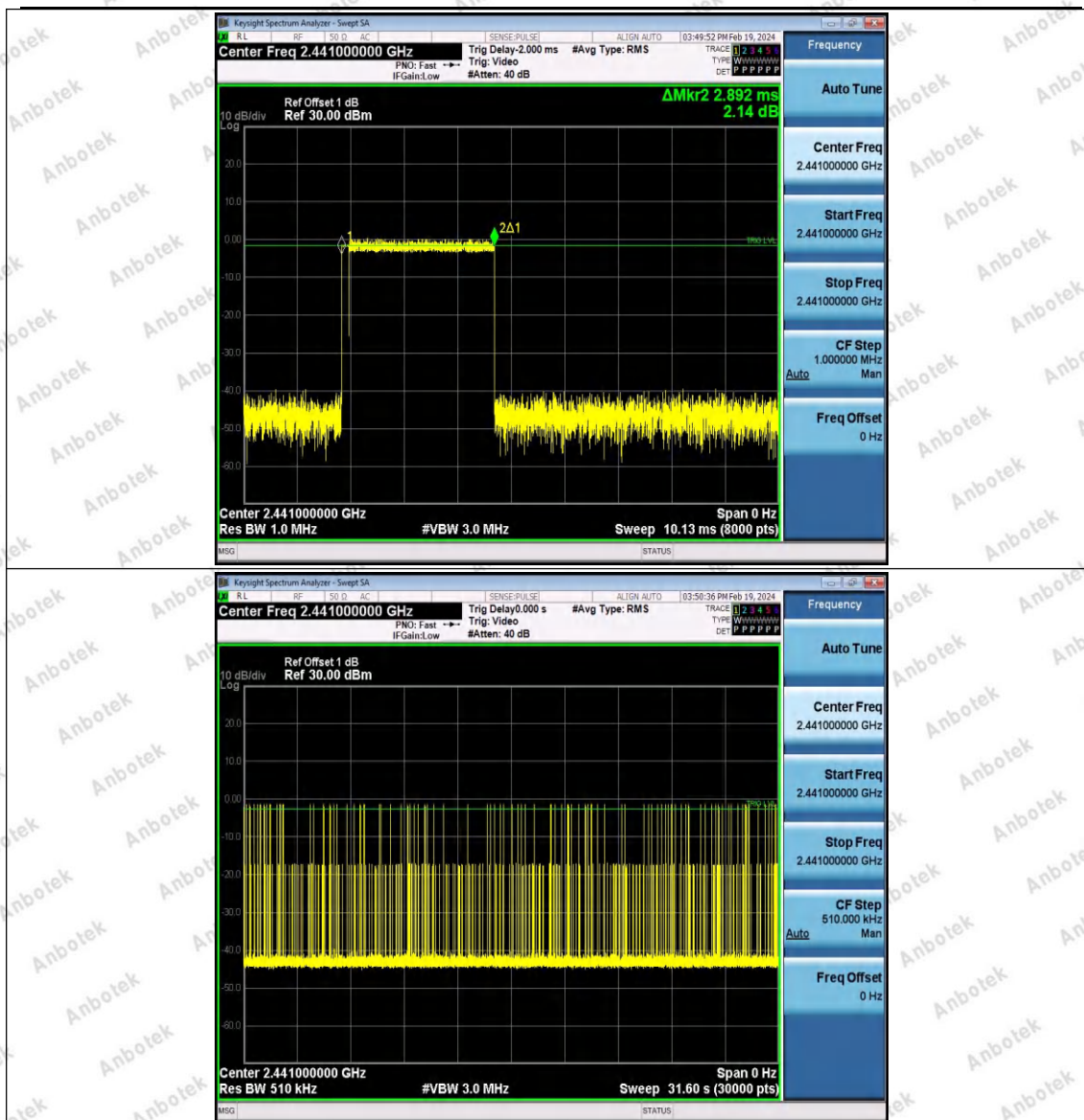
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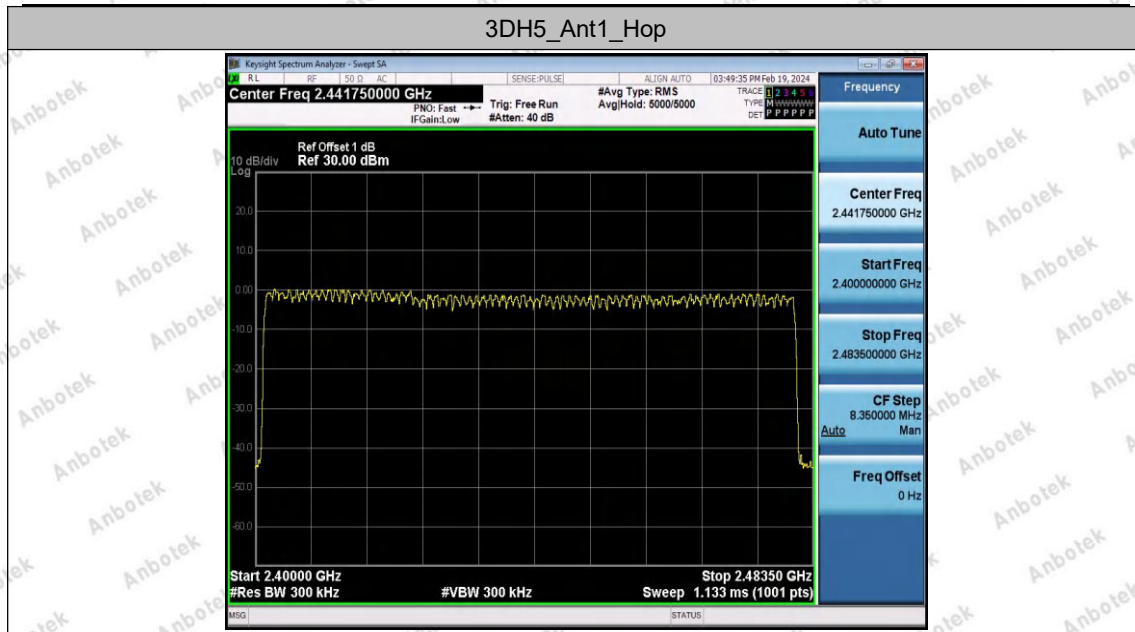
Appendix F: Number of hopping channels

Test Result

TestMode	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 G: Band edge measurements

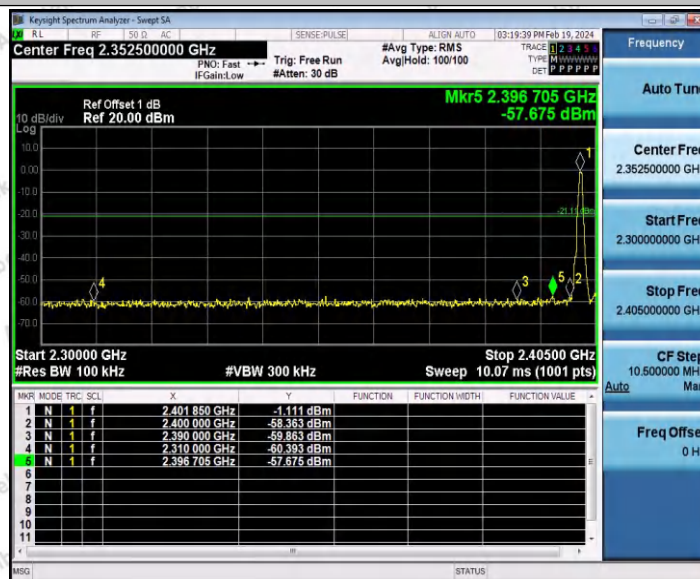
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.11	-57.68	≤-21.11	PASS
		High	2480	-2.17	-57.03	≤-22.17	PASS
		Low	Hop_2402	-1.05	-57.16	≤-21.05	PASS
		High	Hop_2480	-2.33	-56.41	≤-22.33	PASS
2DH5	Ant1	Low	2402	-0.01	-56.78	≤-20.01	PASS
		High	2480	-1.66	-57.19	≤-21.66	PASS
		Low	Hop_2402	-1.12	-57.32	≤-21.12	PASS
		High	Hop_2480	-1.38	-57.08	≤-21.38	PASS
3DH5	Ant1	Low	2402	-0.17	-57.54	≤-20.17	PASS
		High	2480	-3.86	-57.06	≤-23.86	PASS
		Low	Hop_2402	0.14	-40.3	≤-19.86	PASS
		High	Hop_2480	-3.43	-55.59	≤-23.43	PASS

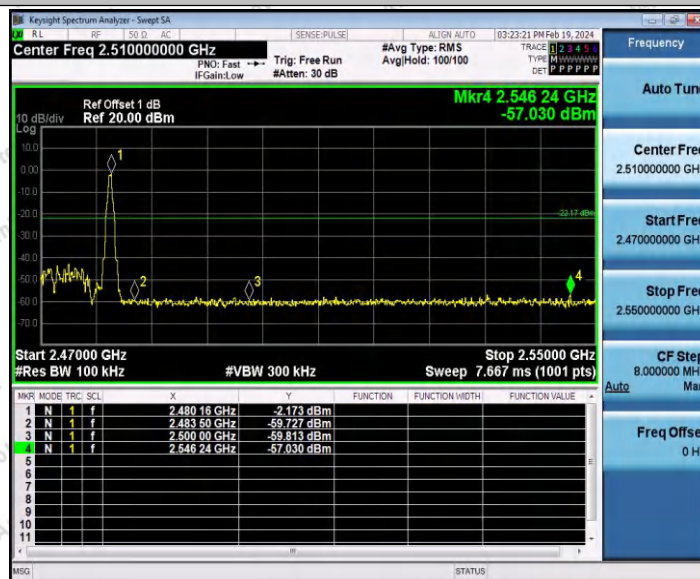


Test Graphs

DH5_Ant1_Low_2402

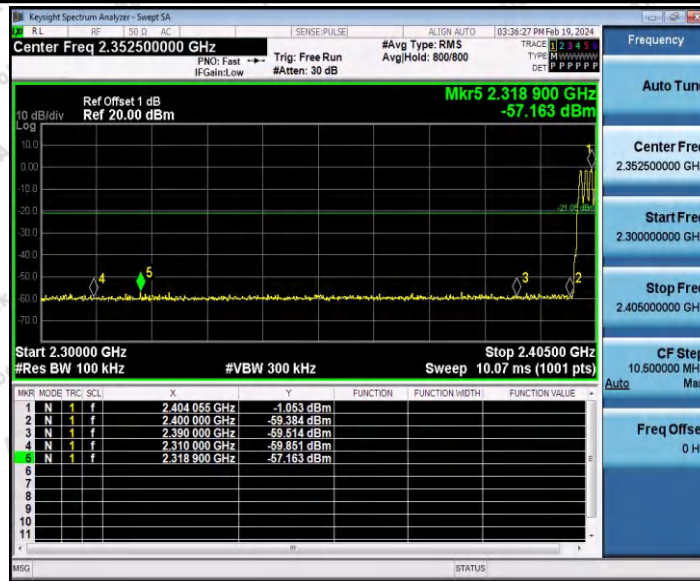


DH5_Ant1_High_2480

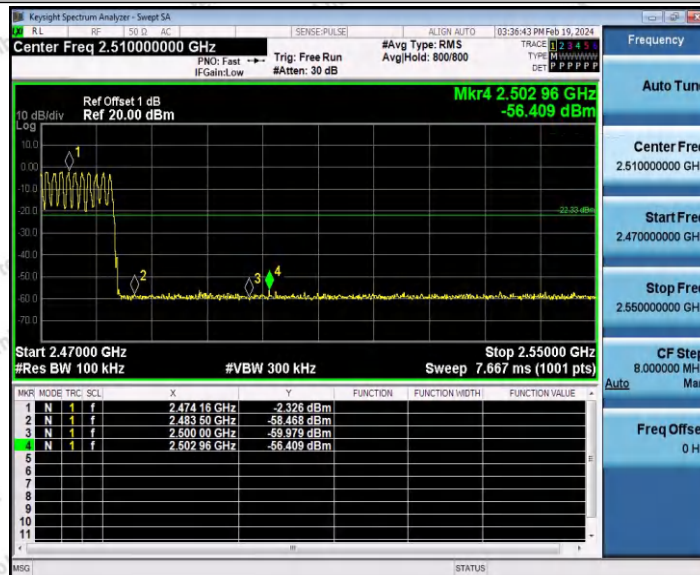


DH5_Ant1_Low_Hop_2402

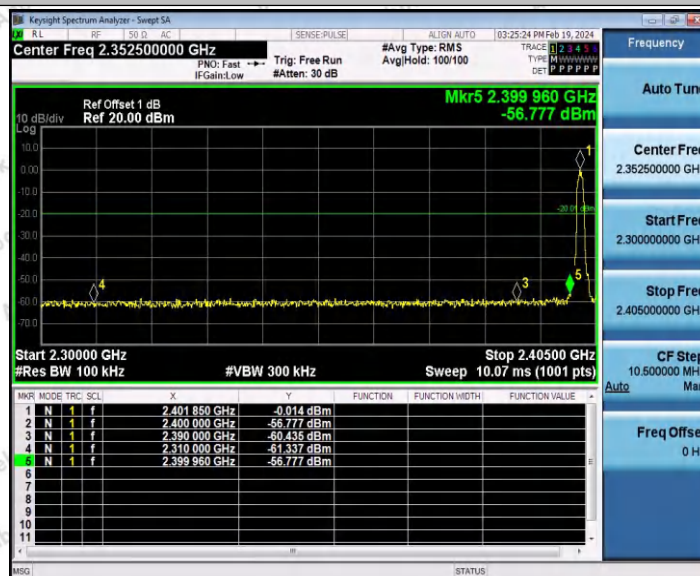




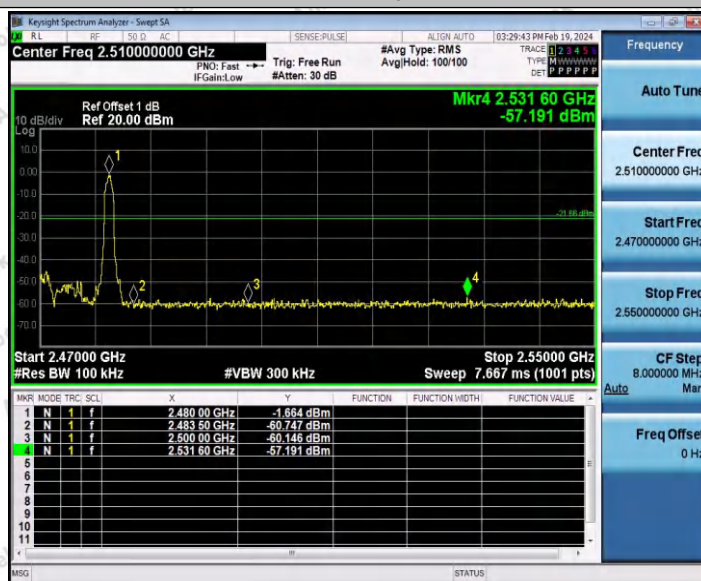
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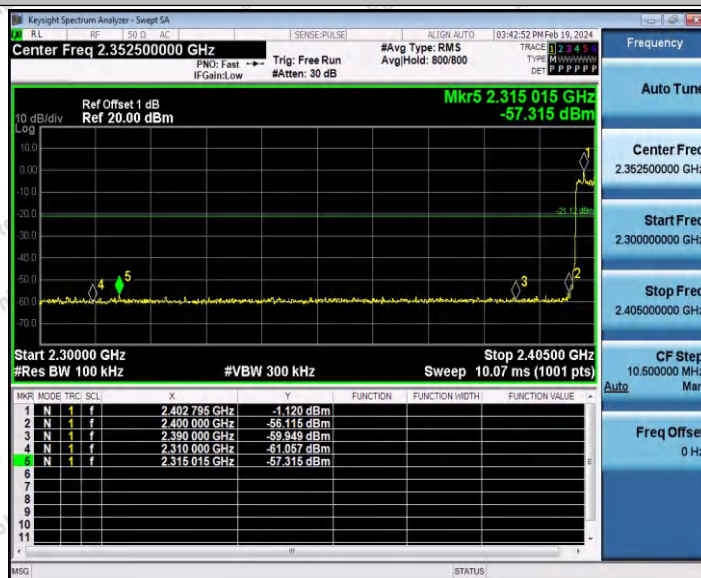
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

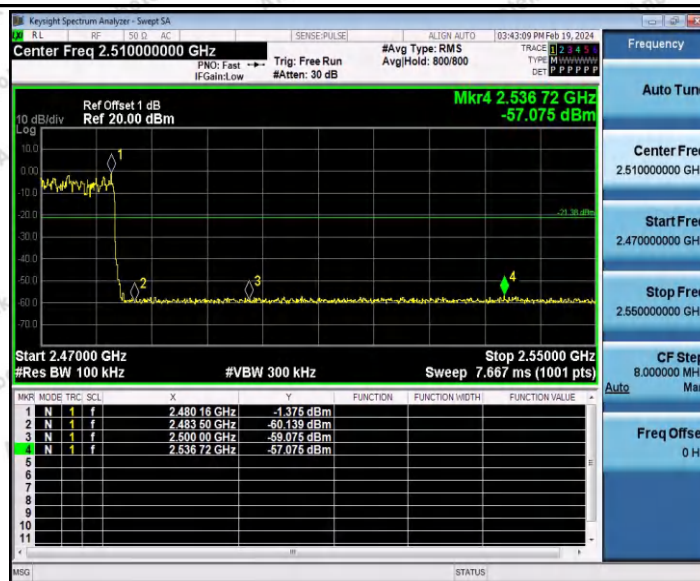
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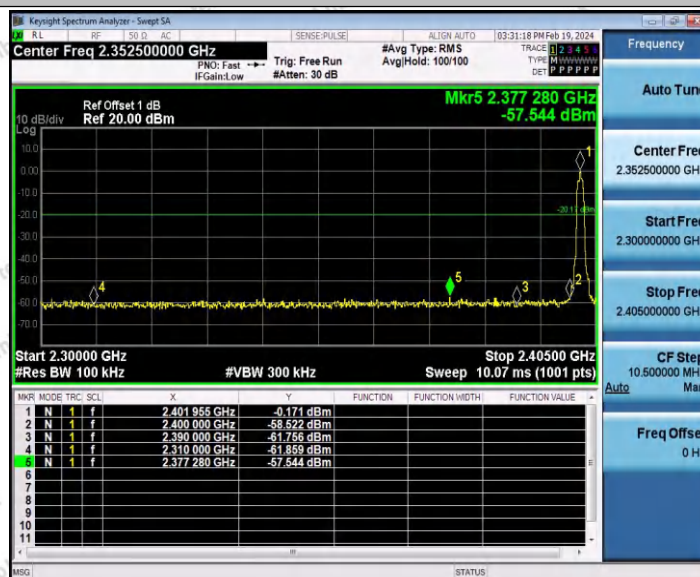


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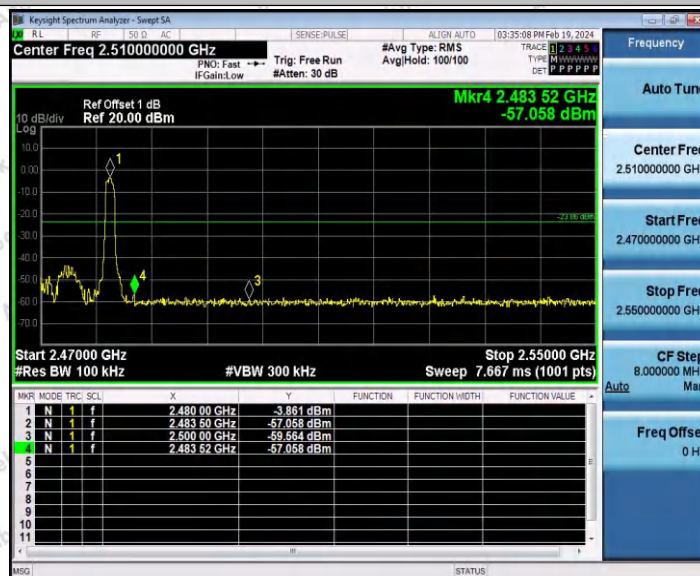




3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



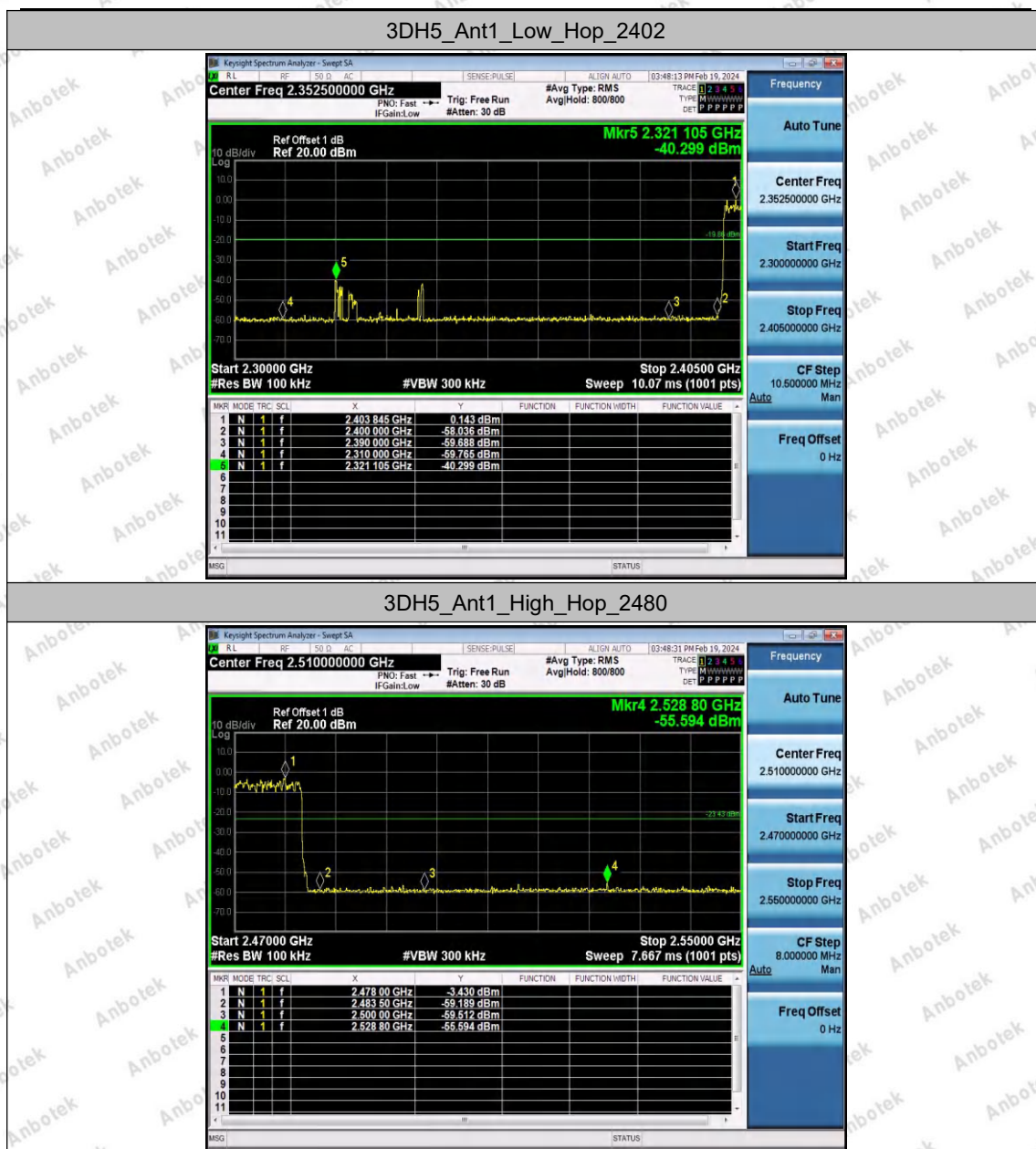
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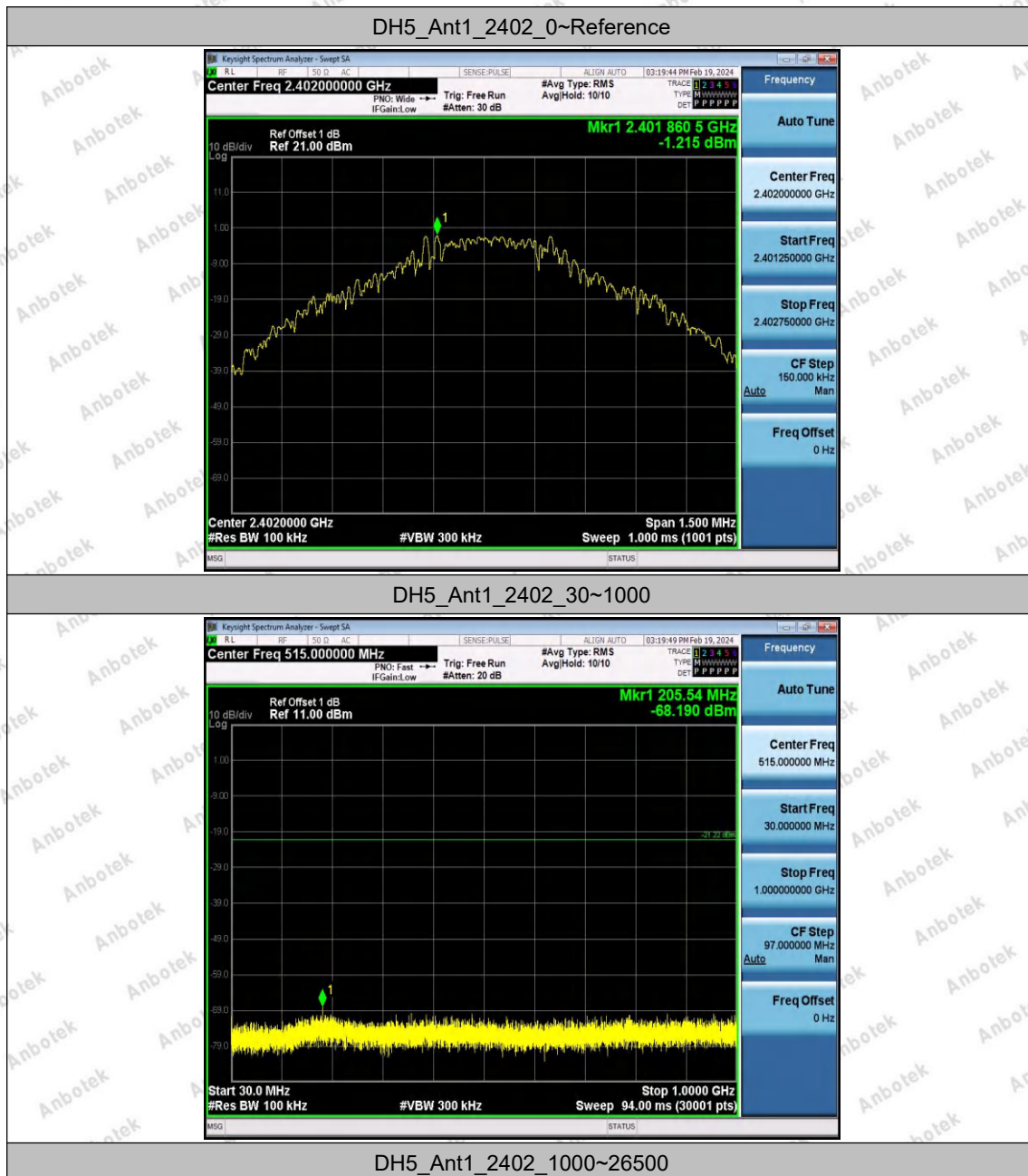
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-68.19	≤-21.22	PASS
			1000~26500	-1.22	-53.48	≤-21.22	PASS
		2441	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-69	≤-22.6	PASS
			1000~26500	-2.60	-53.8	≤-22.6	PASS
		2480	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-69.73	≤-22.54	PASS
			1000~26500	-2.54	-53.5	≤-22.54	PASS
2DH5	Ant1	2402	Reference	-2.90	-2.90	---	PASS
			30~1000	-2.90	-69.18	≤-22.9	PASS
			1000~26500	-2.90	-52.9	≤-22.9	PASS
		2441	Reference	-4.07	-4.07	---	PASS
			30~1000	-4.07	-68.97	≤-24.07	PASS
			1000~26500	-4.07	-53.47	≤-24.07	PASS
		2480	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-68.85	≤-24.89	PASS
			1000~26500	-4.89	-53.15	≤-24.89	PASS
3DH5	Ant1	2402	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-69.06	≤-21.06	PASS
			1000~26500	-1.06	-53.63	≤-21.06	PASS
		2441	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-69.53	≤-23.96	PASS
			1000~26500	-3.96	-53.87	≤-23.96	PASS
		2480	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-69.63	≤-24.56	PASS
			1000~26500	-4.56	-53.48	≤-24.56	PASS



Test Graphs



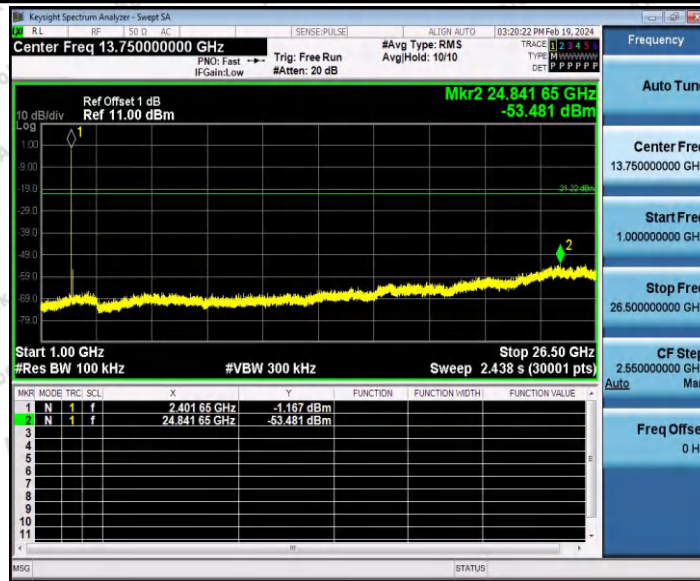
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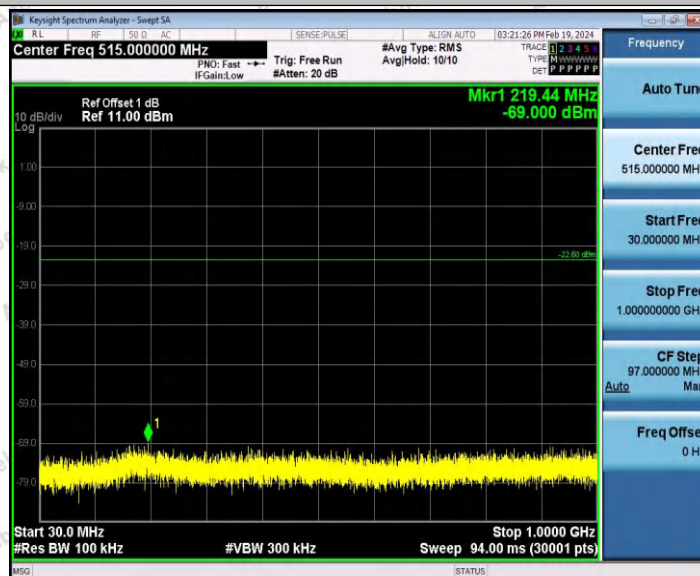




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



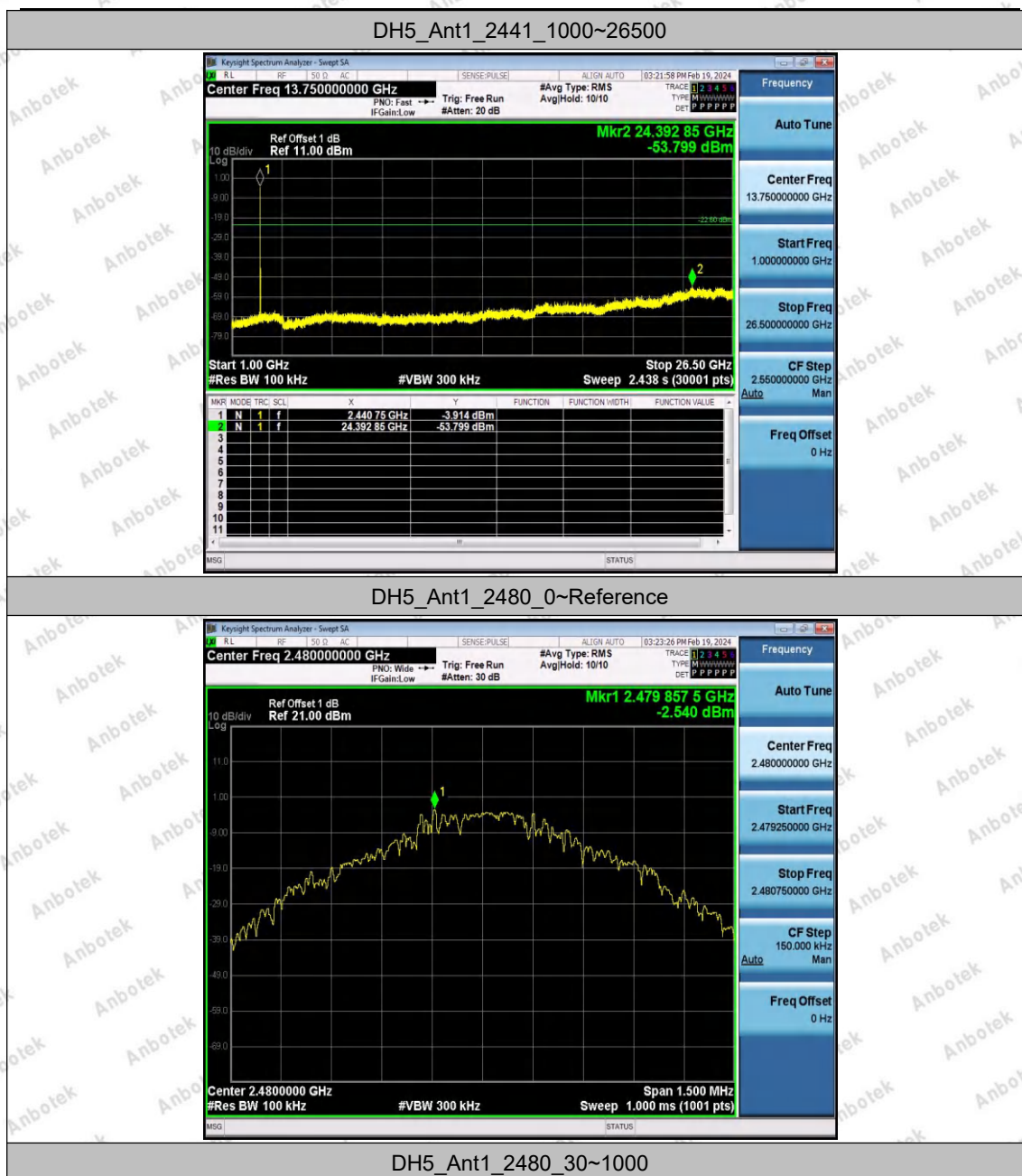
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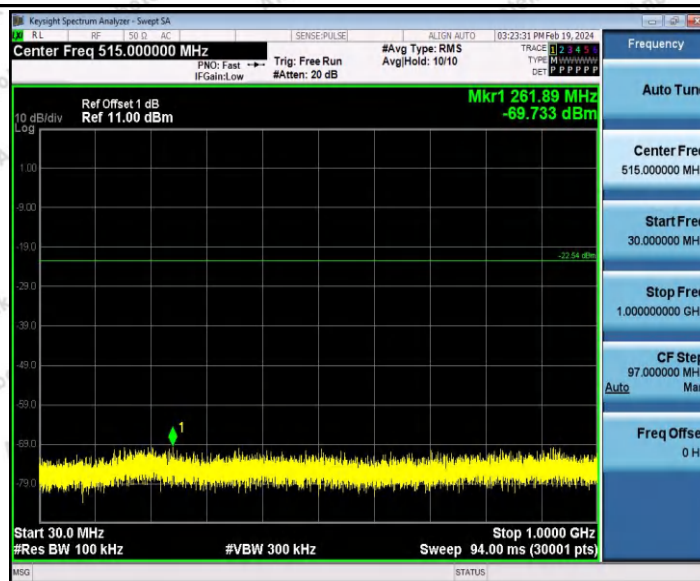
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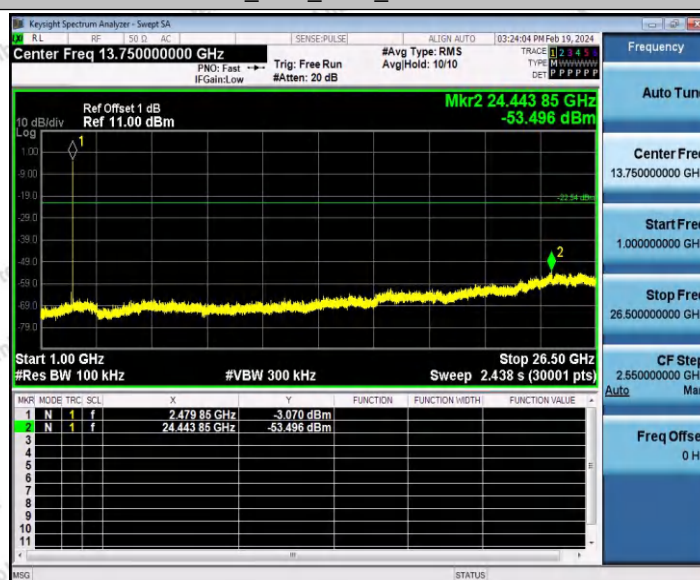
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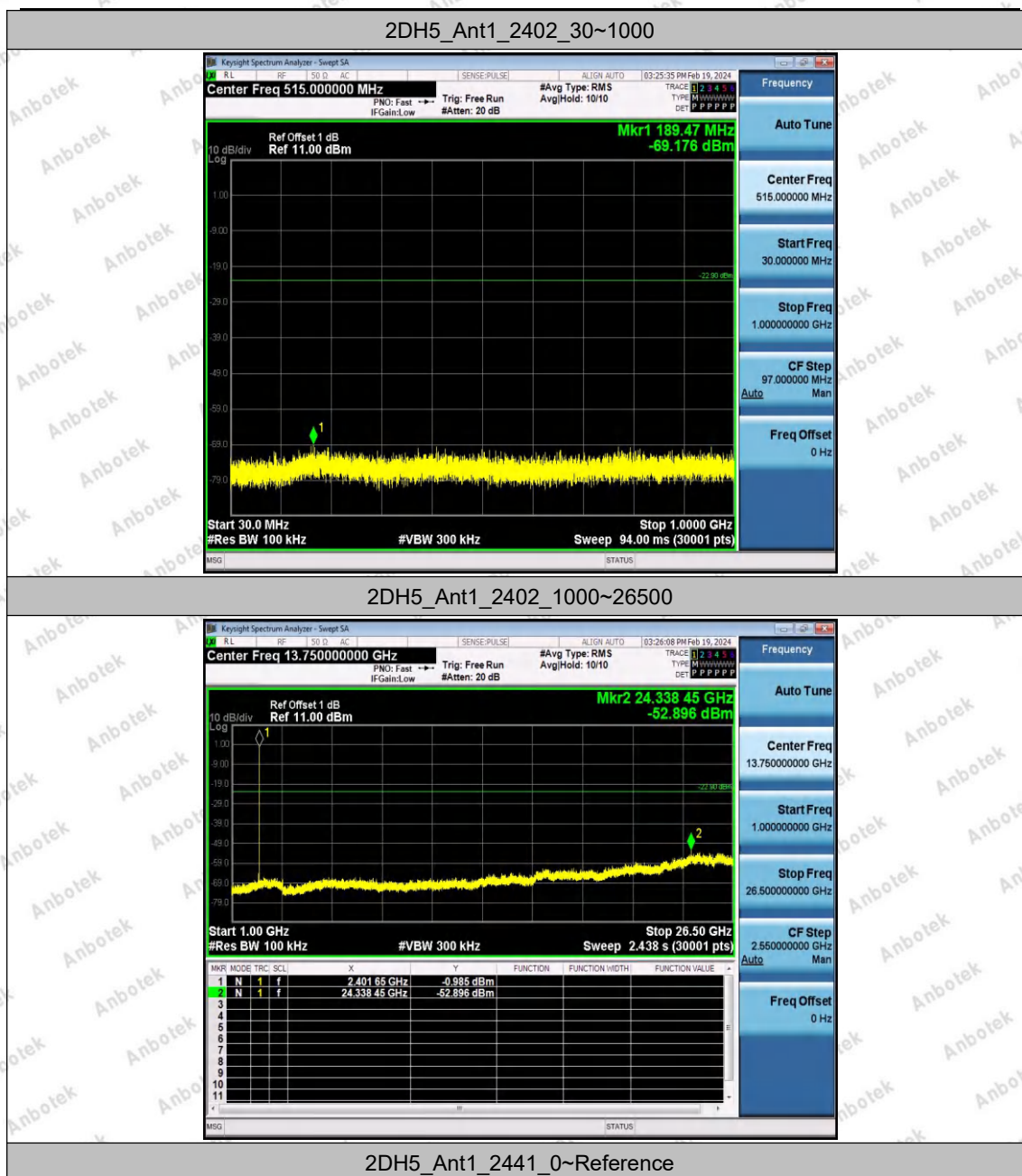


DH5_Ant1_2480_1000~26500



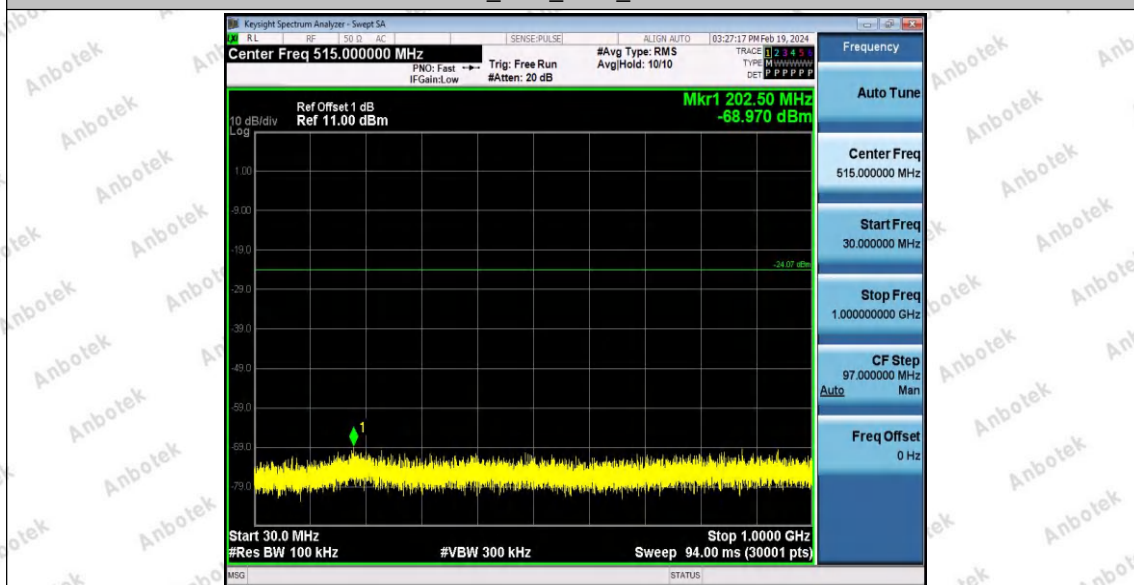
2DH5_Ant1_2402_0~Reference







2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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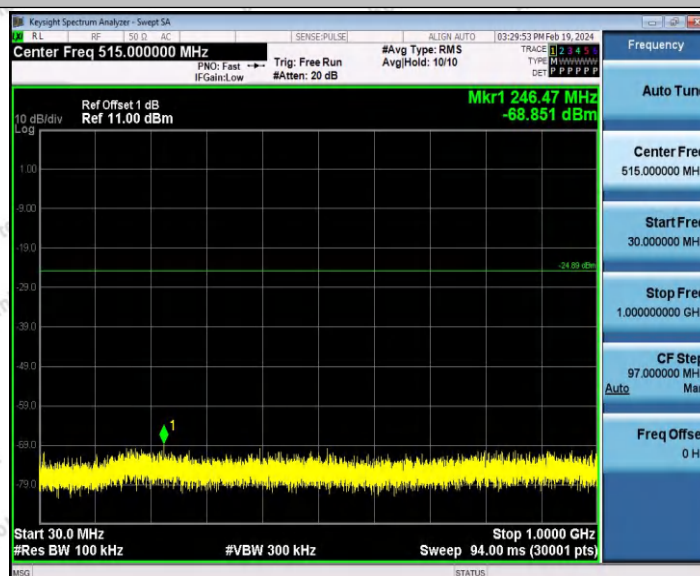
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2DH5_Ant1_2480_0~Reference

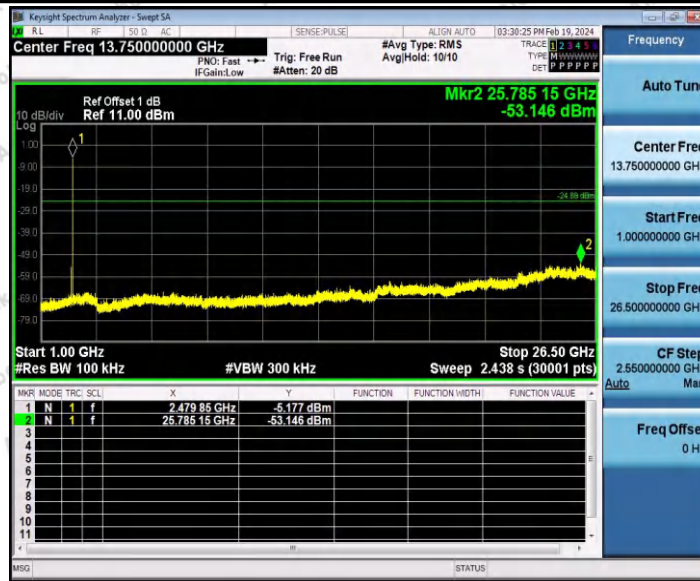


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2DH5_Ant1_2480_1000~26500

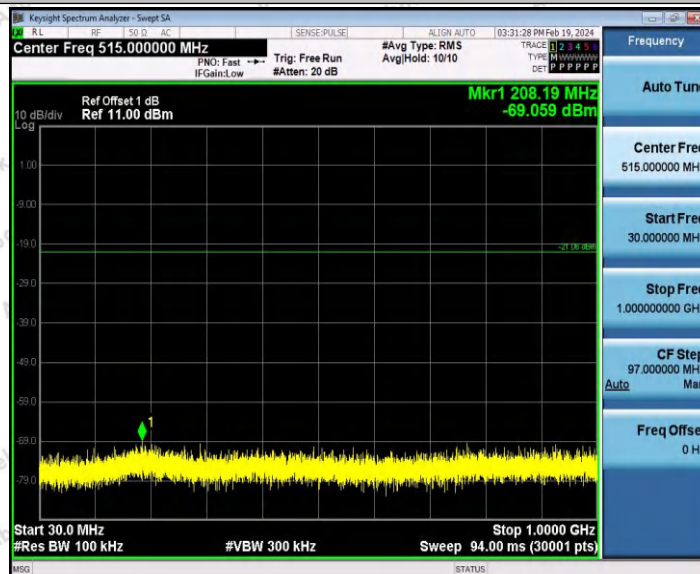




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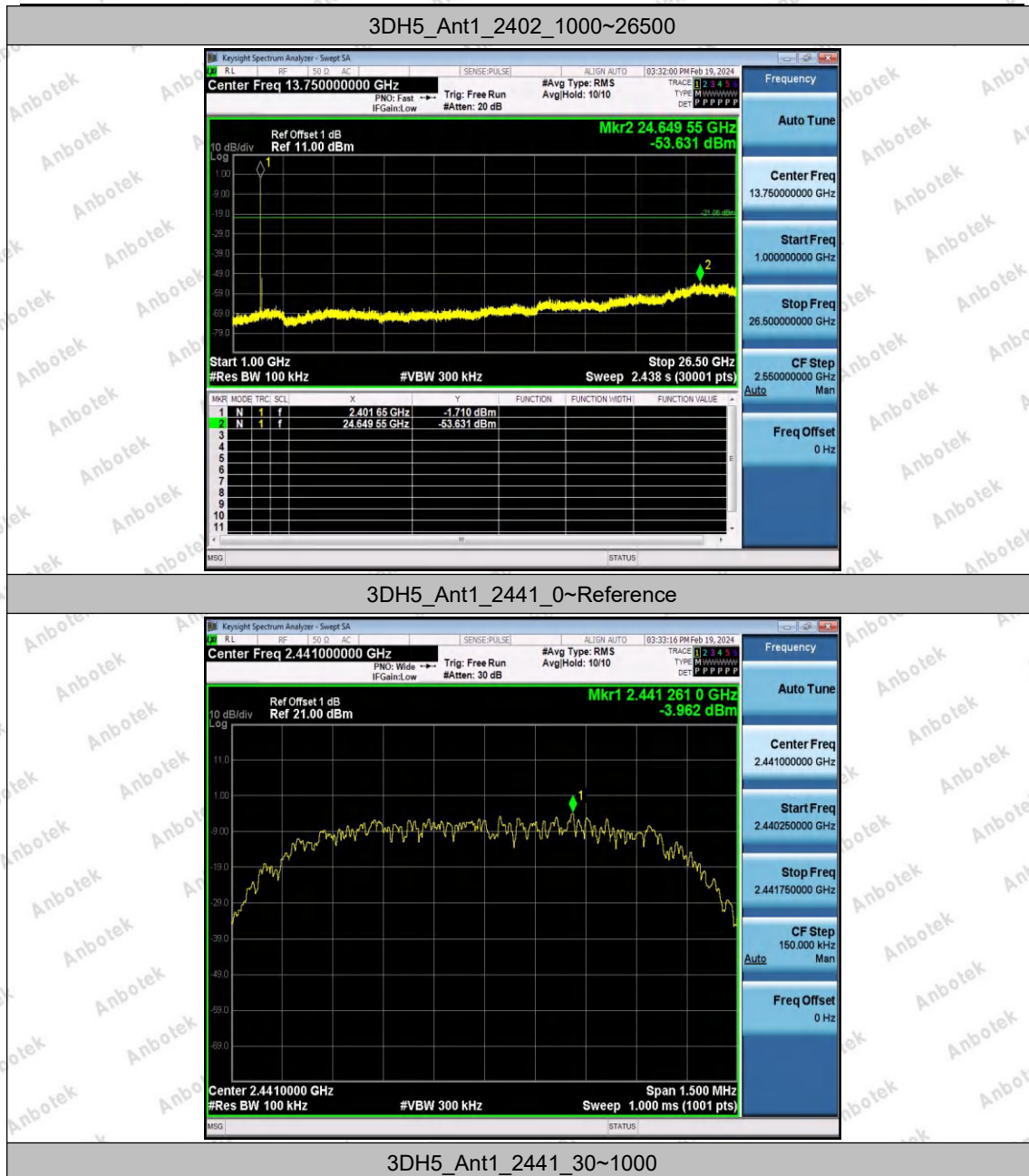
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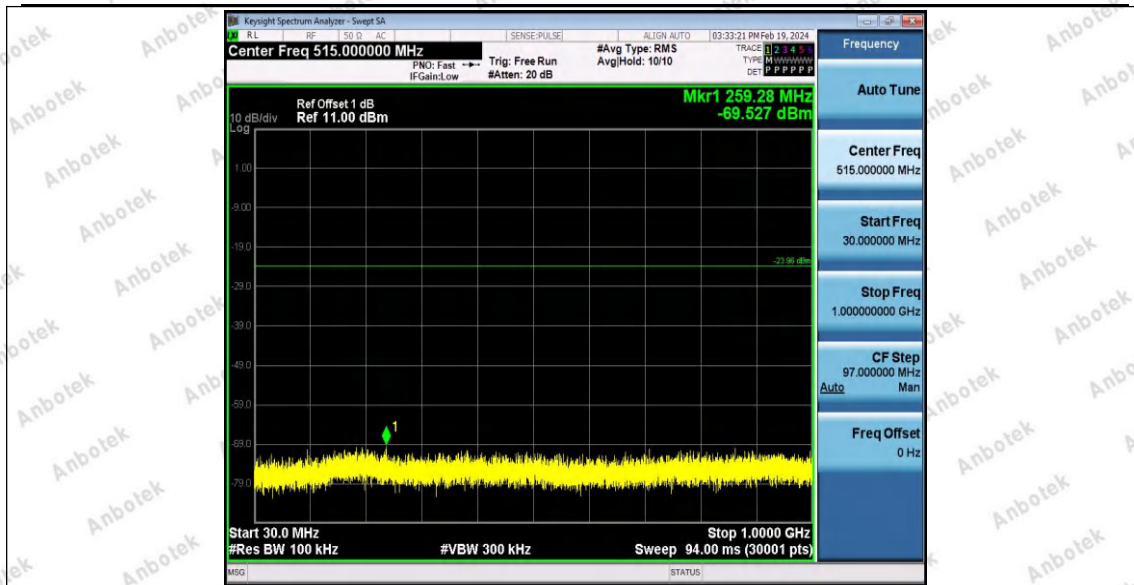
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



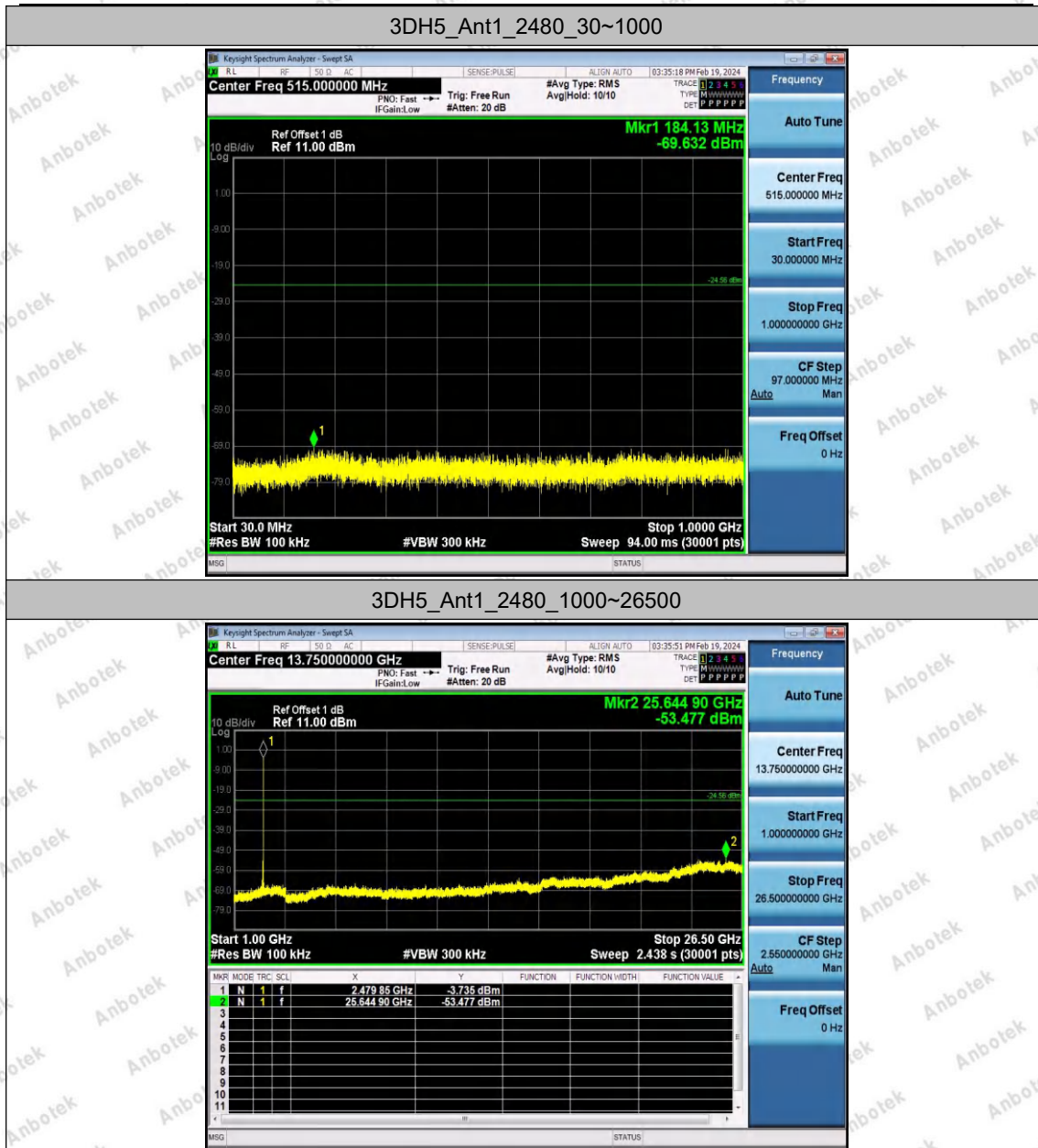
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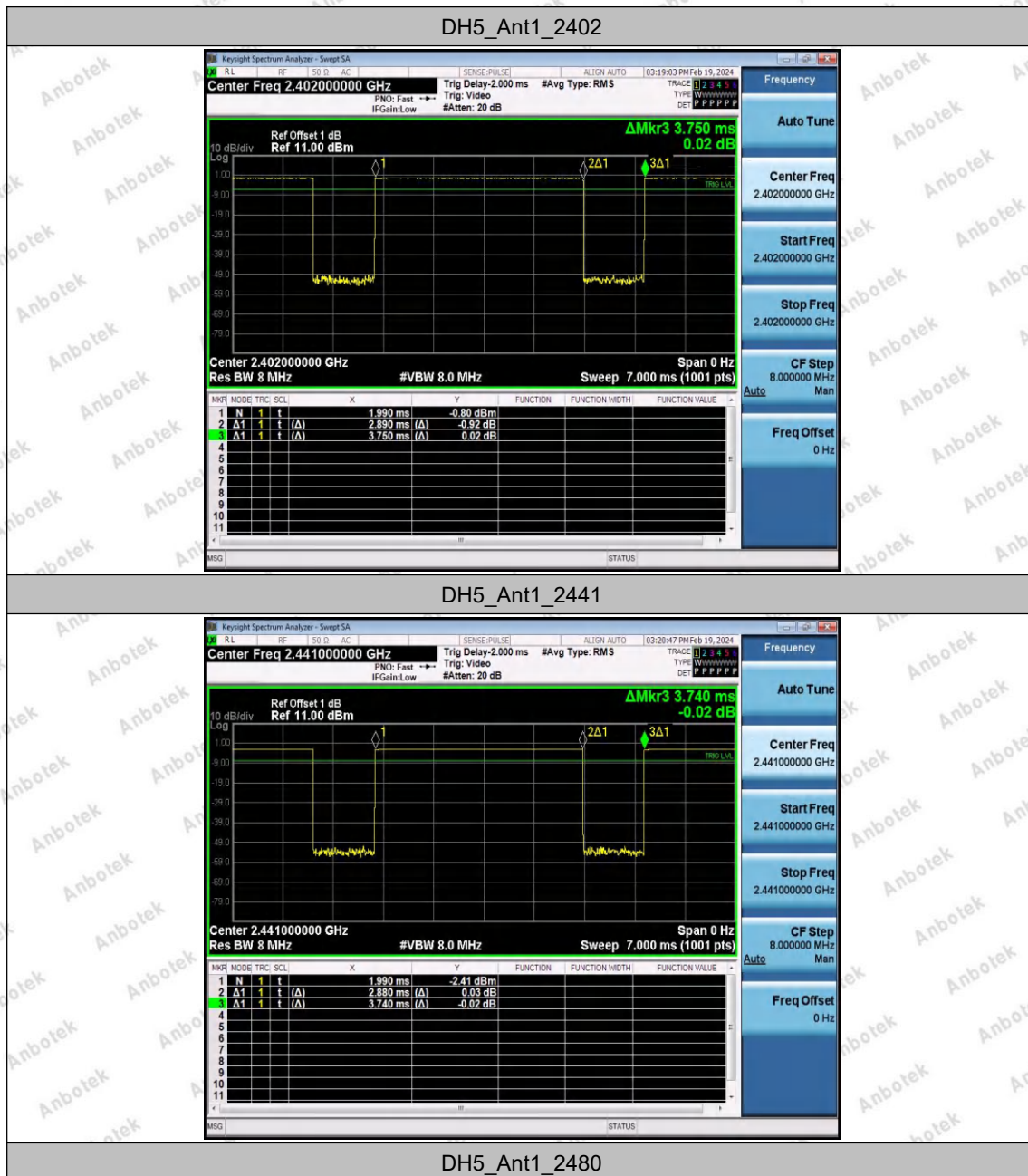
Appendix I: Duty Cycle

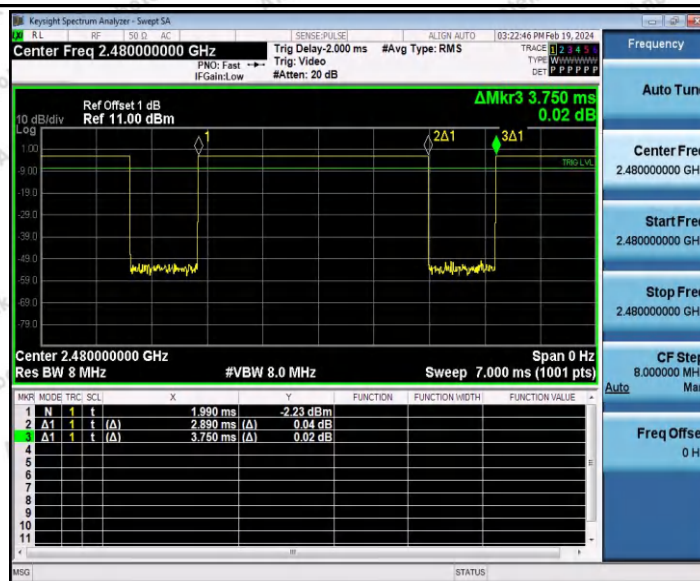
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.88	3.74	77.01	1.13
		2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.90	3.76	77.13	1.13
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.90	3.76	77.13	1.13

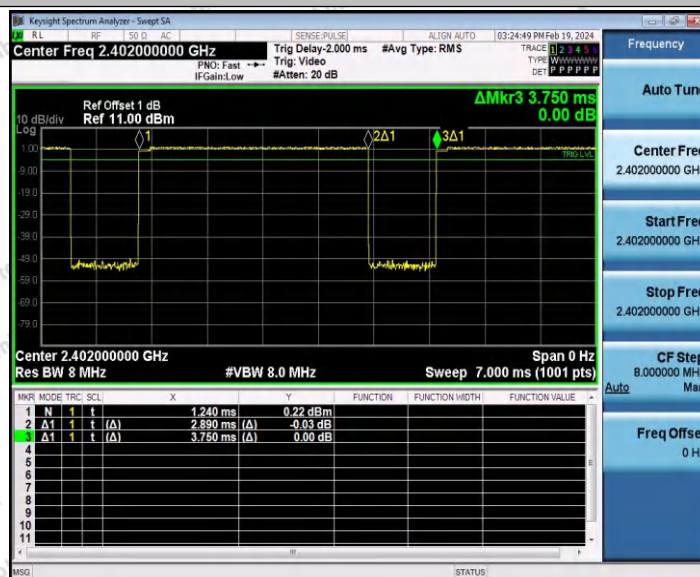


Test Graphs

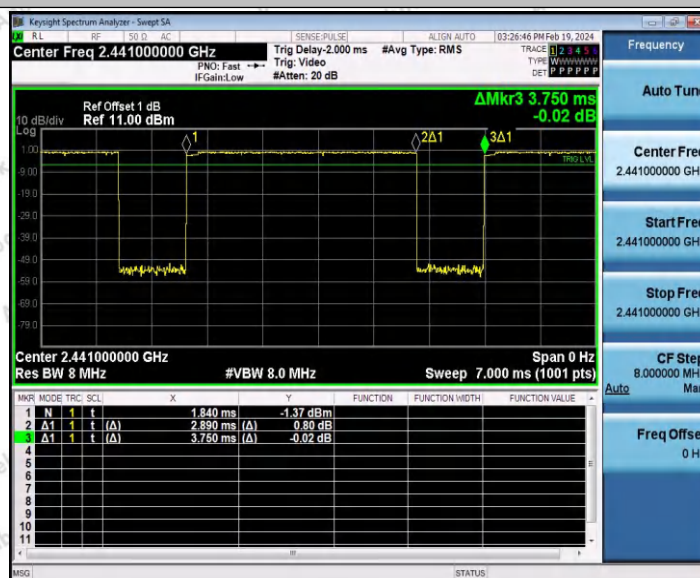




2DH5_Ant1_2402



2DH5_Ant1_2441



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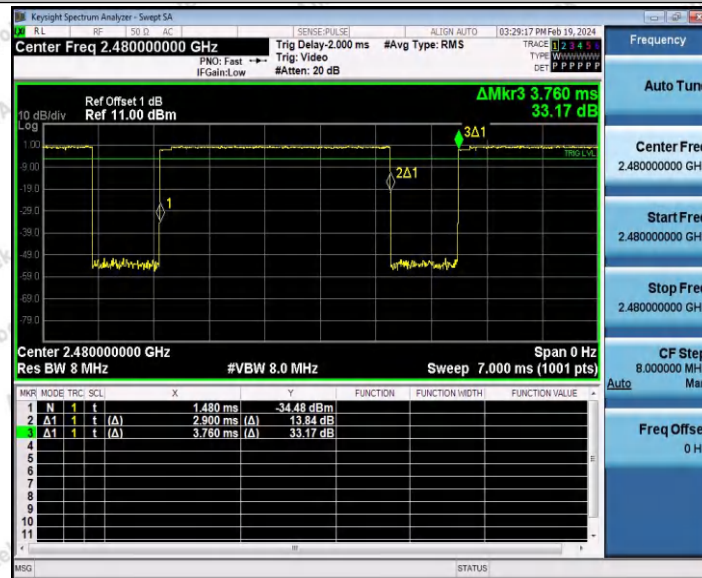
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hahgcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China,
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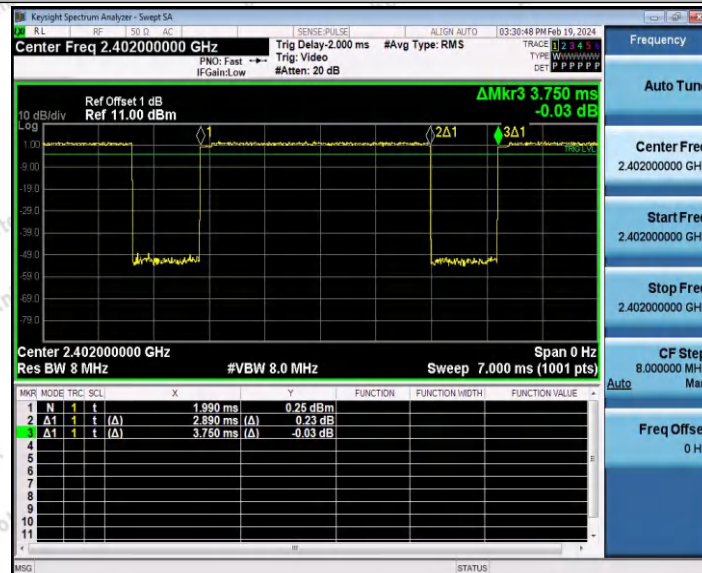
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

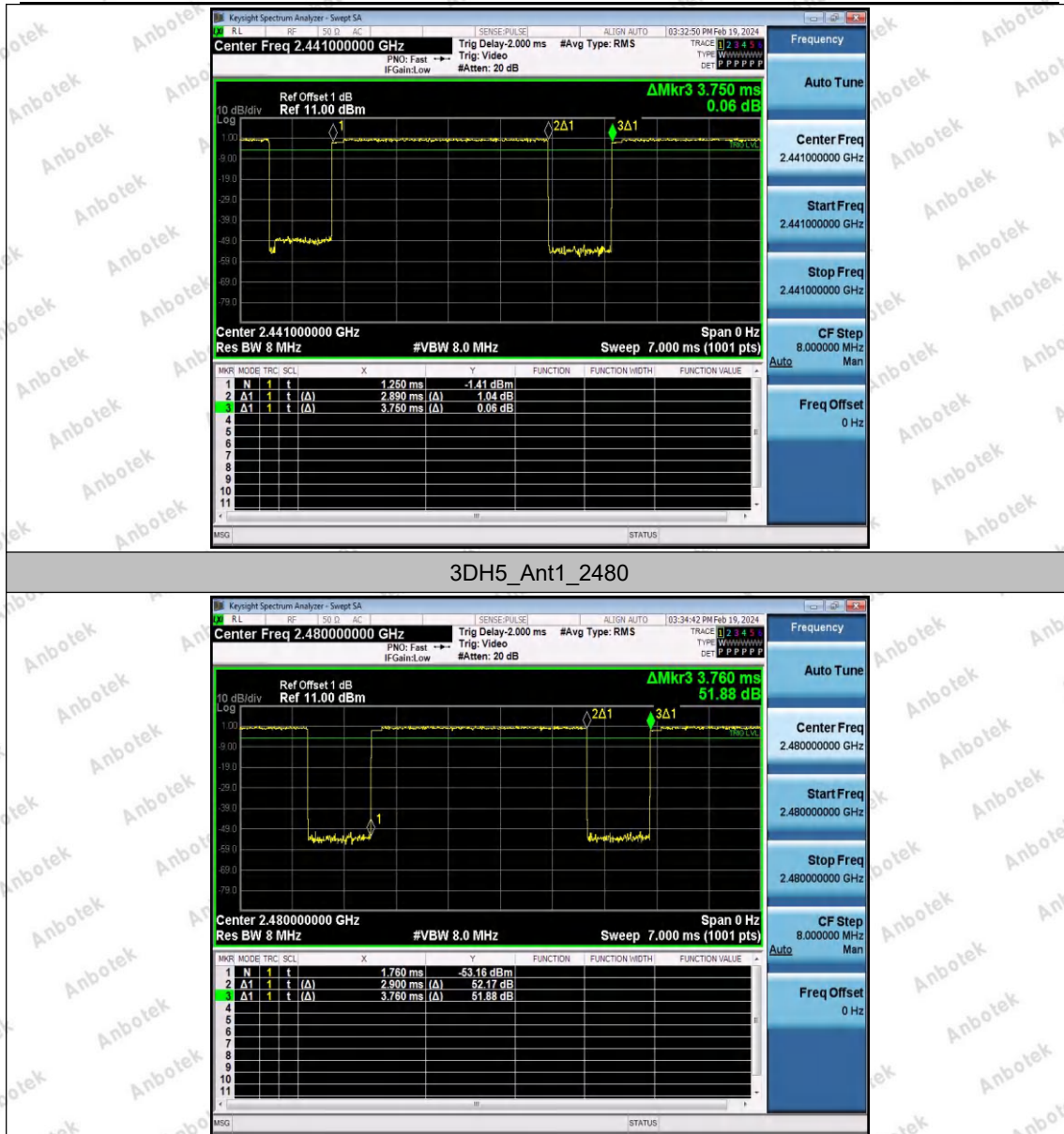
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