

Appendix Test Data

Report No.:	18220WC30033501	Test Sample No.:	1-2-2
Start Test Date:	2023.03.02	Finish Test Date:	2023.03.03
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.1℃	Relative Humidity:	40%
Pressure:	1012 hPa		

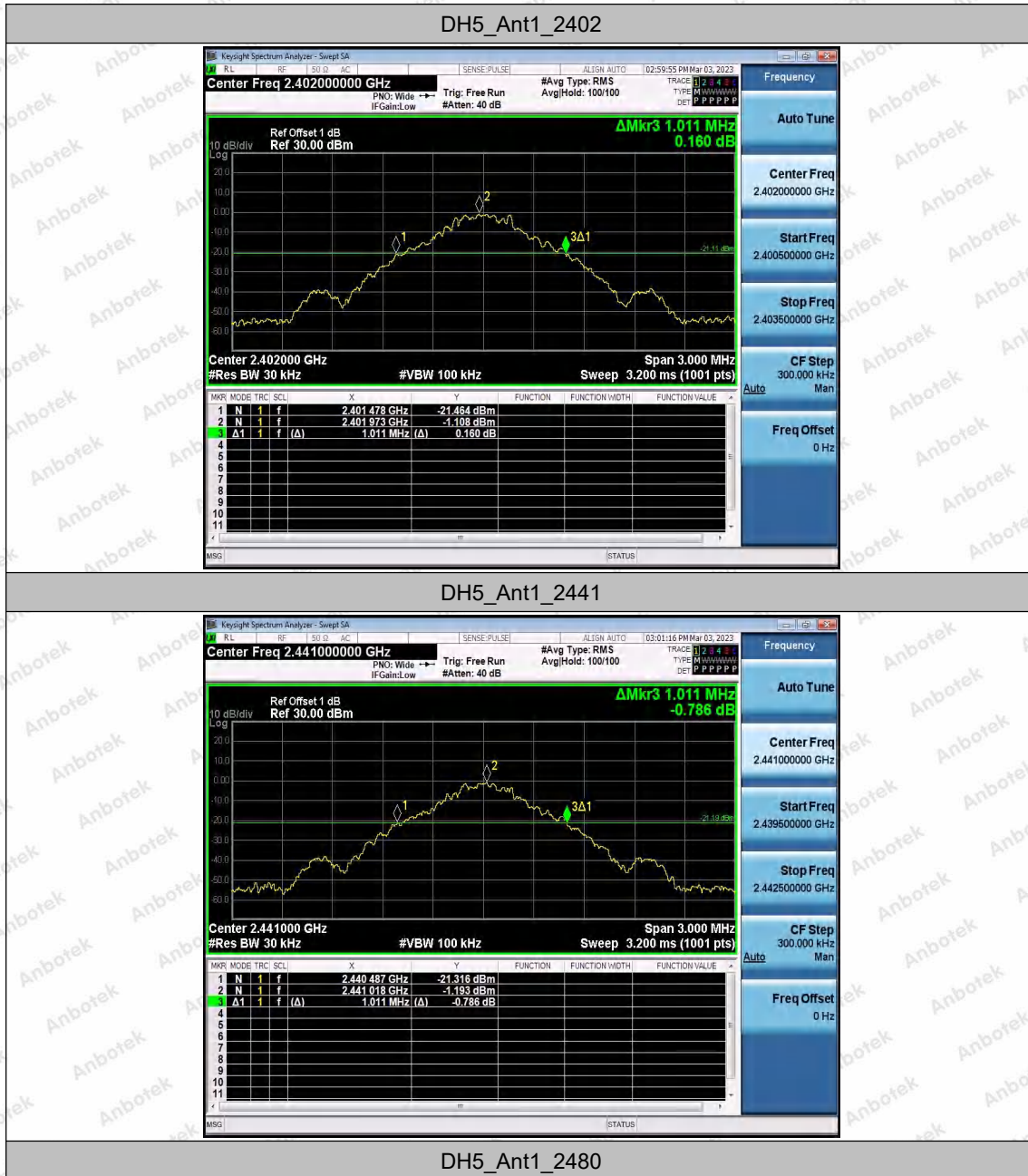
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	1.011	2401.478	2402.489
		2441	1.011	2440.487	2441.498
		2480	1.035	2479.466	2480.501
2DH5	Ant1	2402	1.296	2401.361	2402.657
		2441	1.323	2440.337	2441.660
		2480	1.350	2479.325	2480.675



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

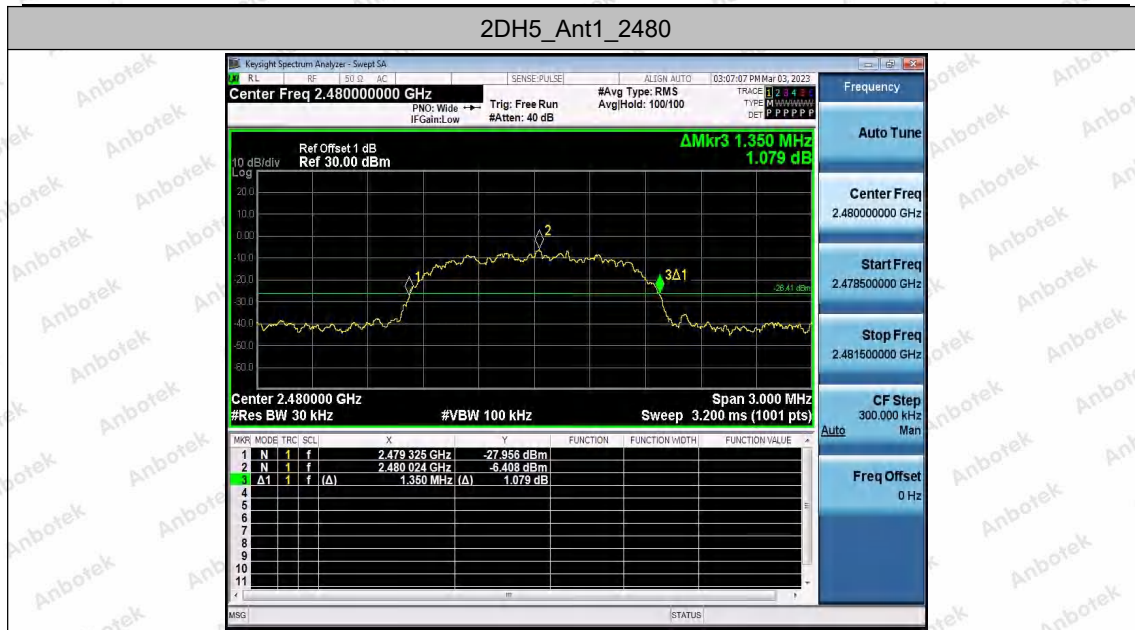


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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.90720	2401.5503	2402.4575
		2441	0.89376	2440.5598	2441.4535
		2480	0.90214	2479.5560	2480.4581
2DH5	Ant1	2402	1.1876	2401.4043	2402.5919
		2441	1.1981	2440.3988	2441.5969
		2480	1.2083	2479.3972	2480.6055

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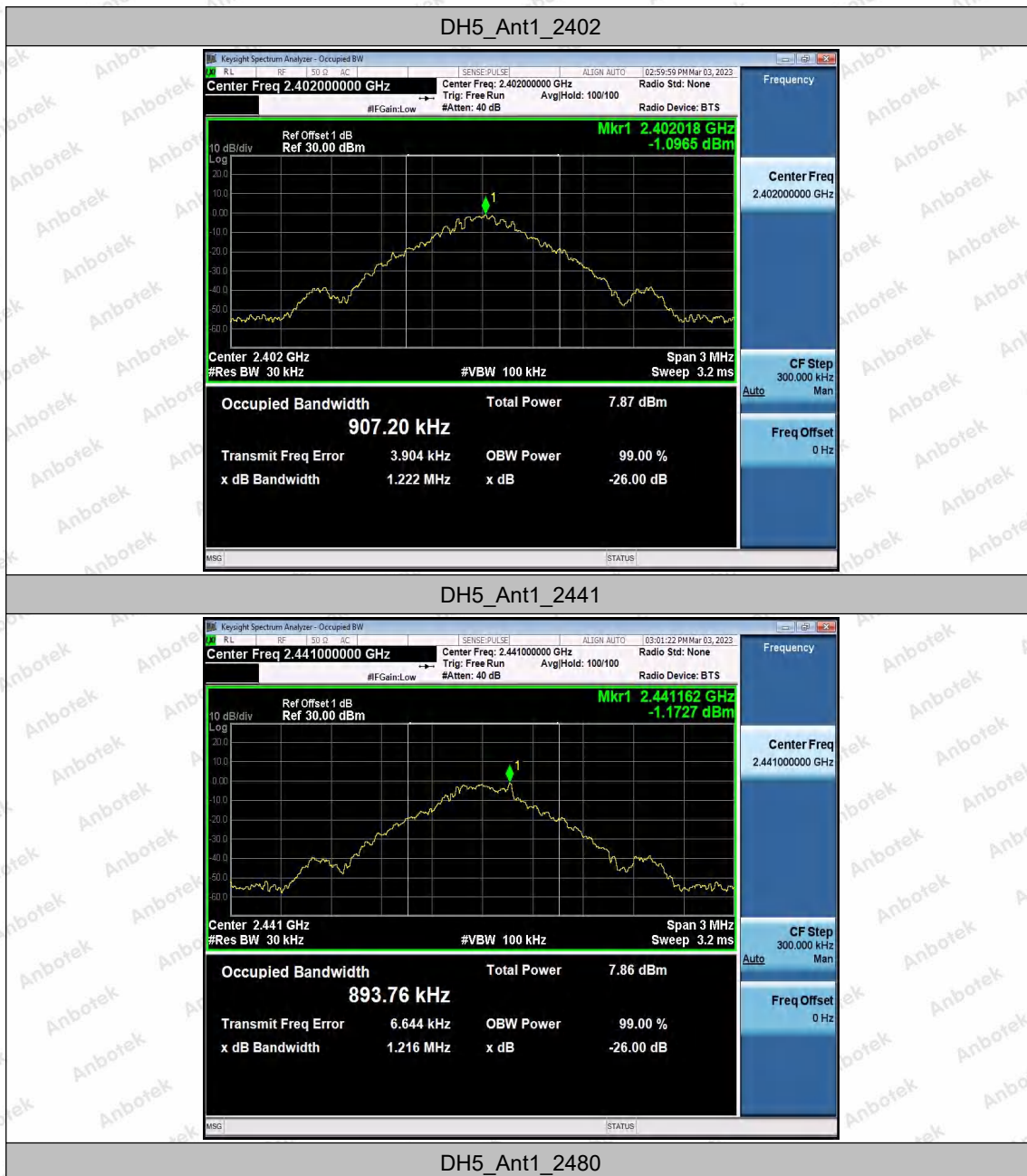
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Test Graphs



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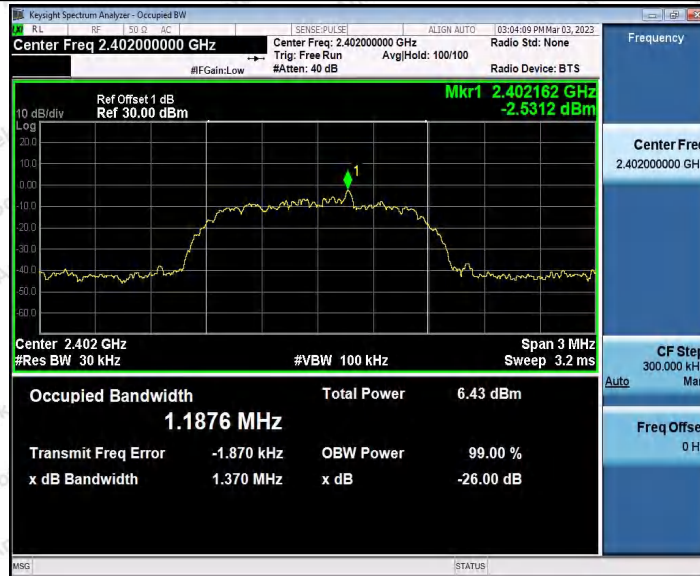


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2DH5_Ant1_2402



2DH5_Ant1_2441



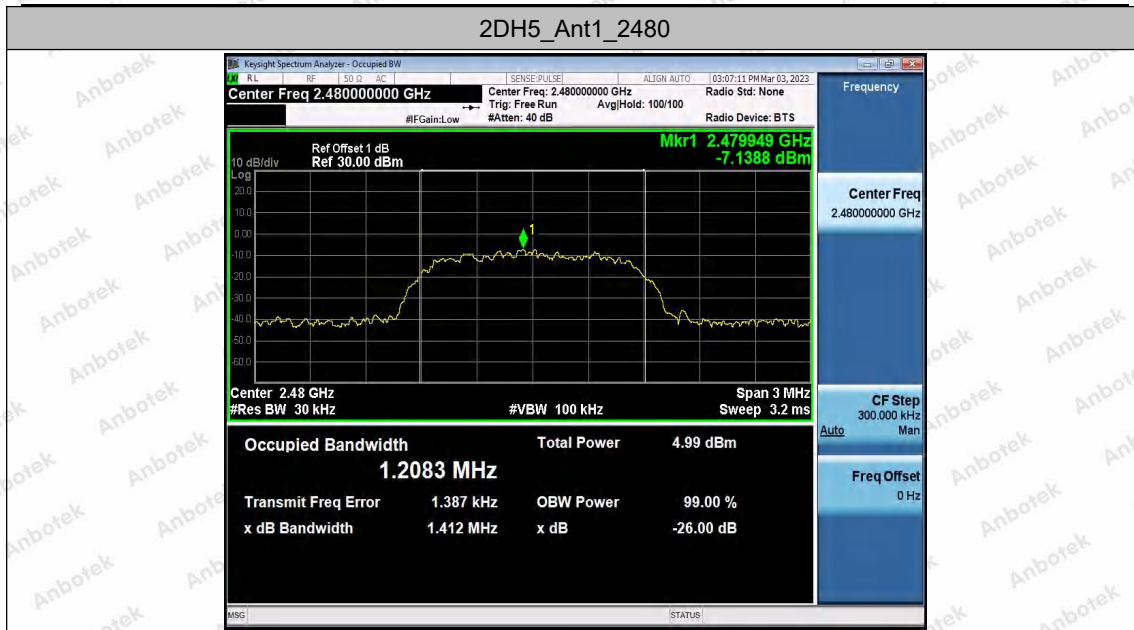
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.61	≤20.97	PASS
		2441	1.24	≤20.97	PASS
		2480	0.92	≤20.97	PASS
2DH5	Ant1	2402	1.20	≤20.97	PASS
		2441	0.80	≤20.97	PASS
		2480	0.24	≤20.97	PASS



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

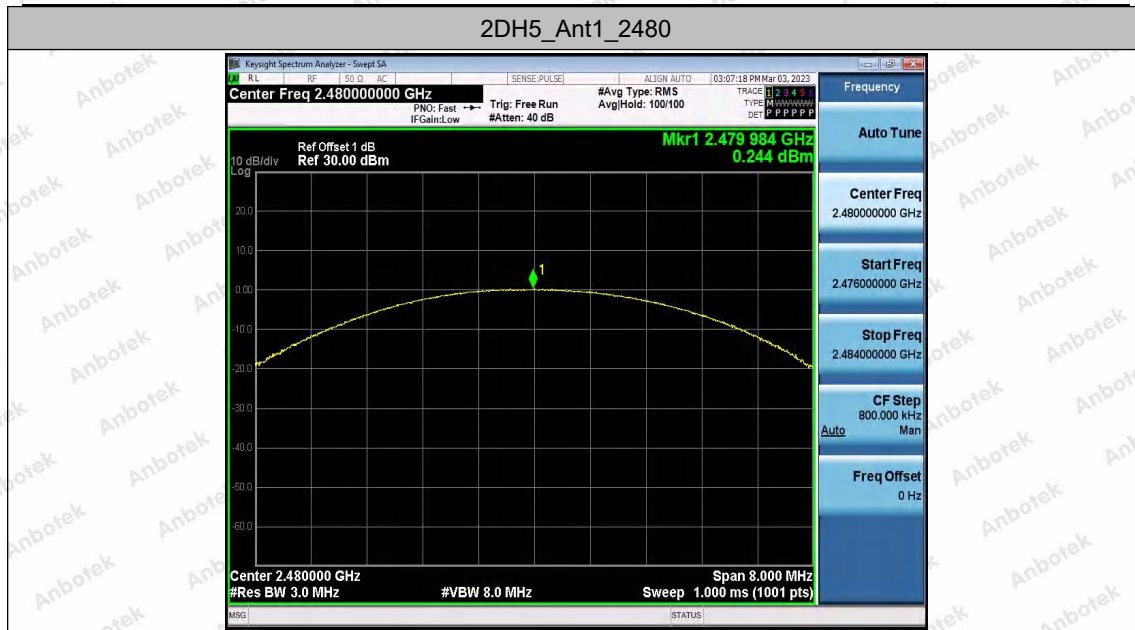


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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.372	312	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.629	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.877	102	0.293	≤0.4	PASS
2DH1	Ant1	Hop	0.380	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.832	76	0.139	≤0.4	PASS
2DH5	Ant1	Hop	2.880	105	0.302	≤0.4	PASS

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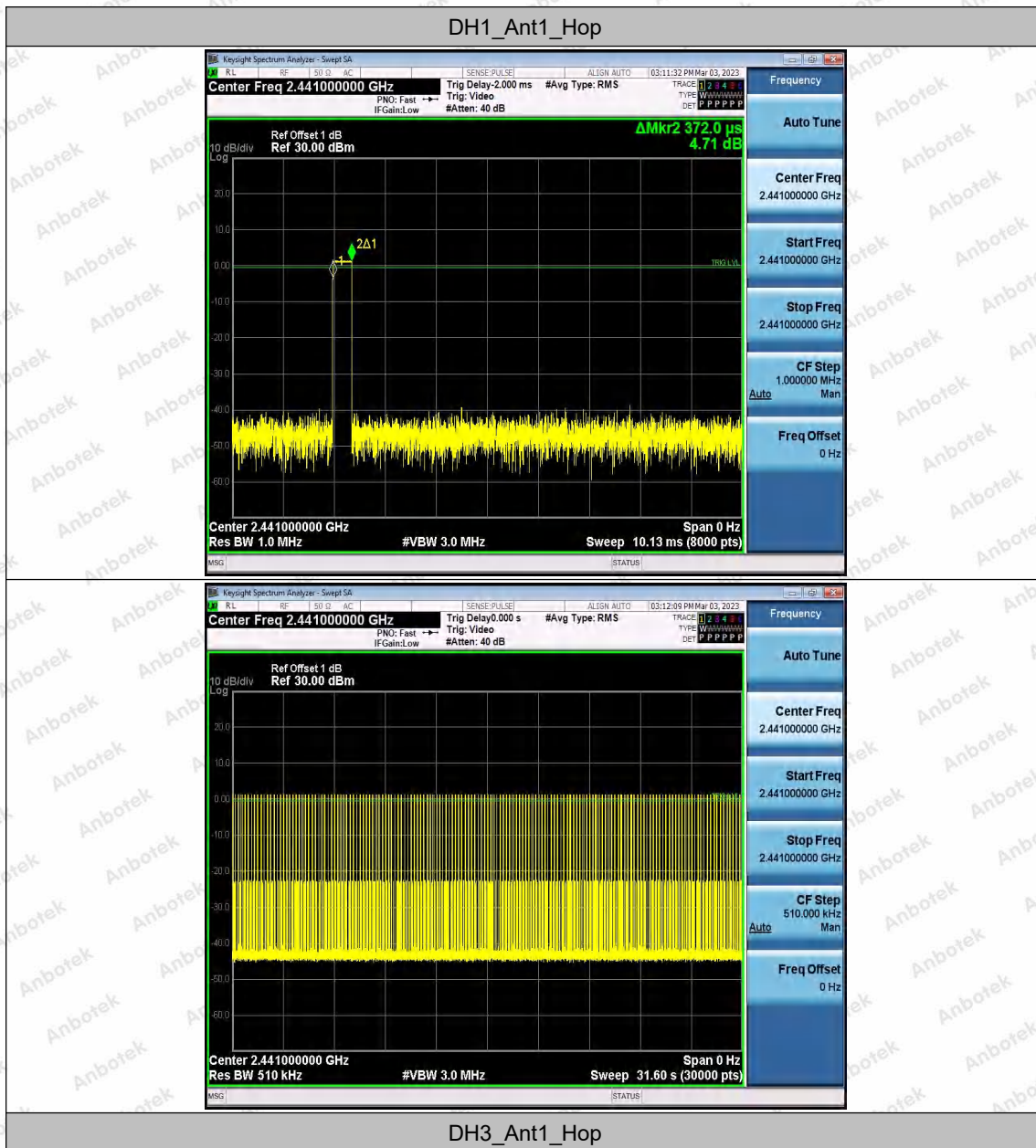
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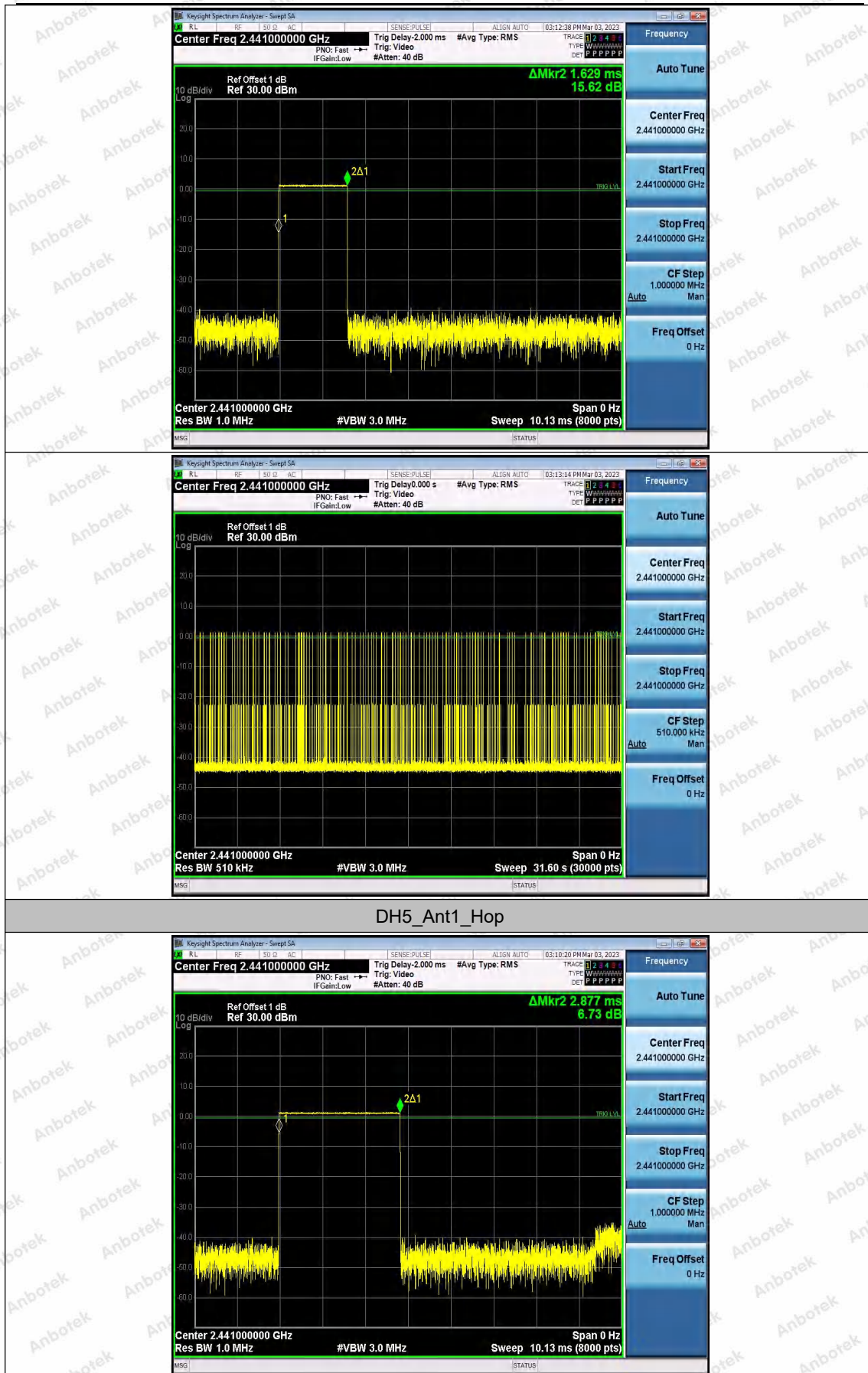
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DH5_Ant1_Hop

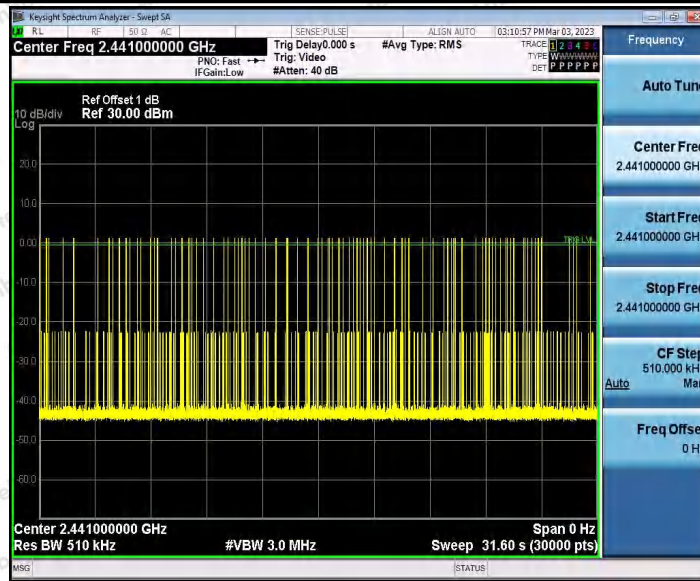
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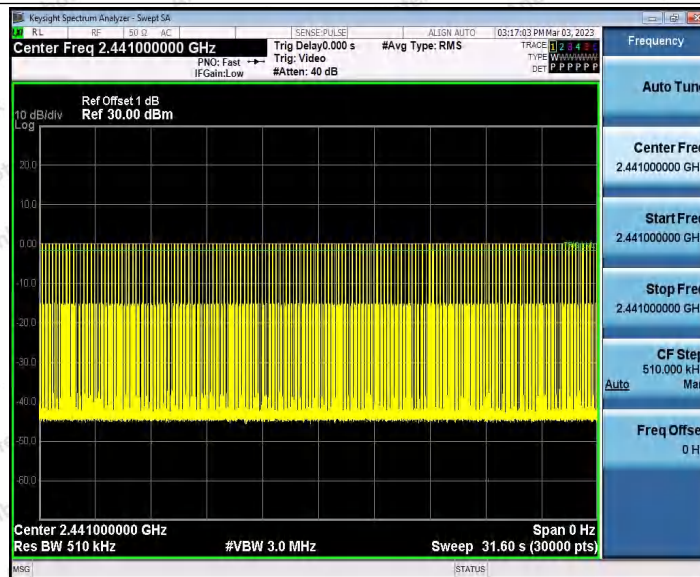
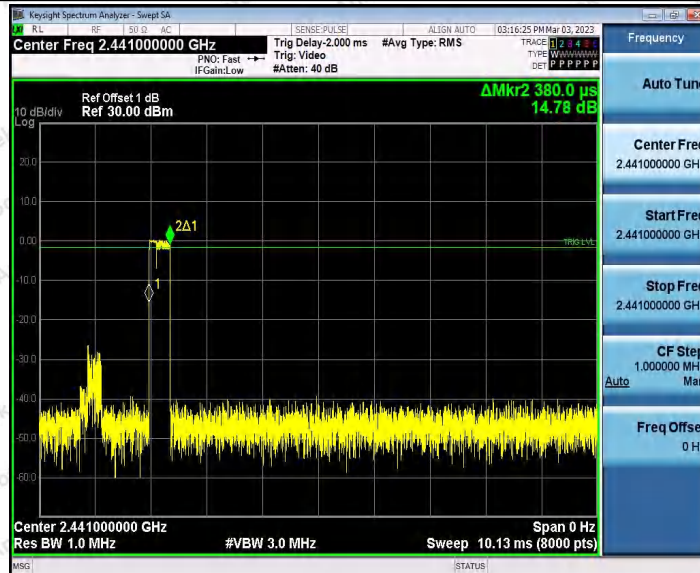


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

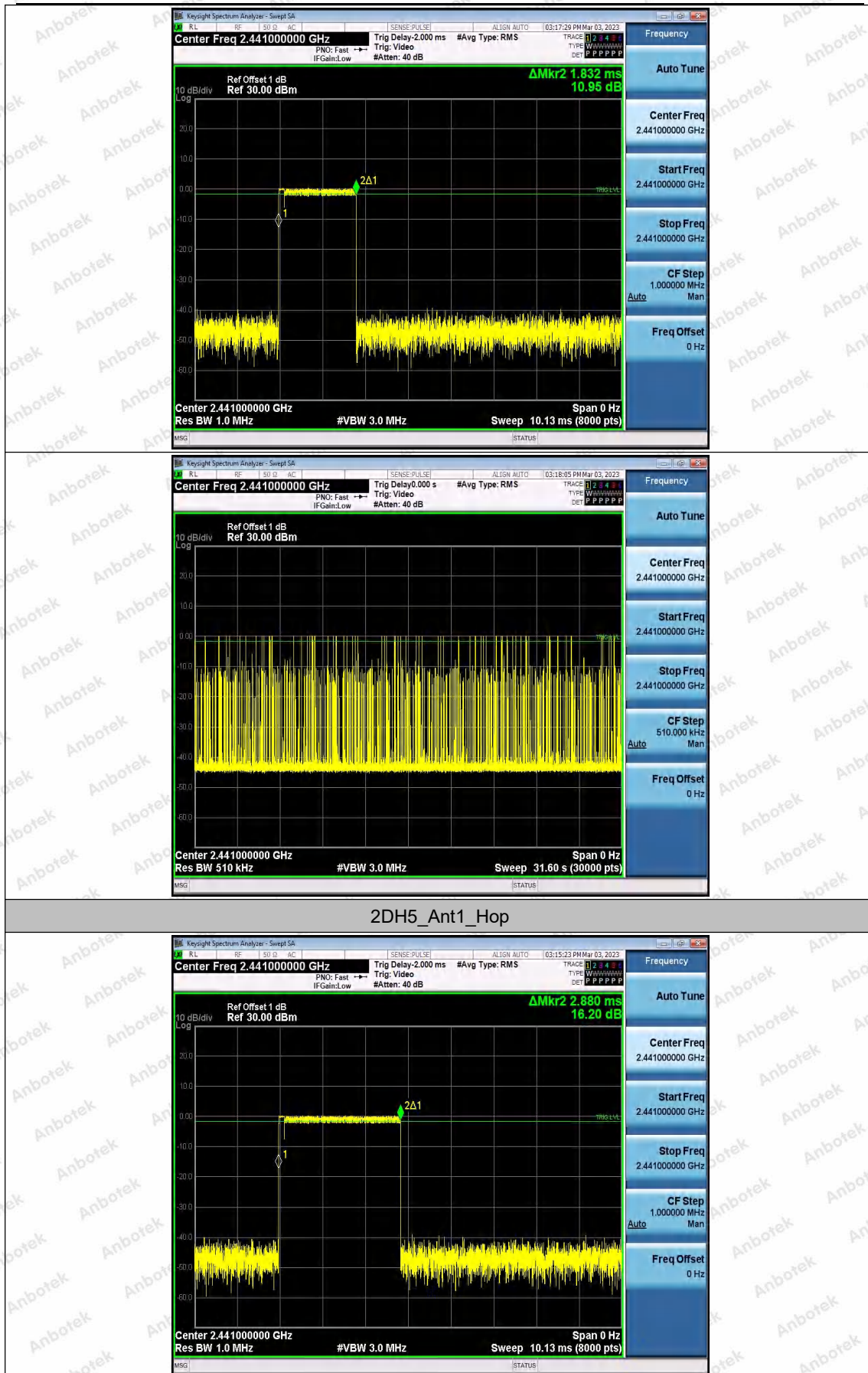
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2DH5_Ant1_Hop

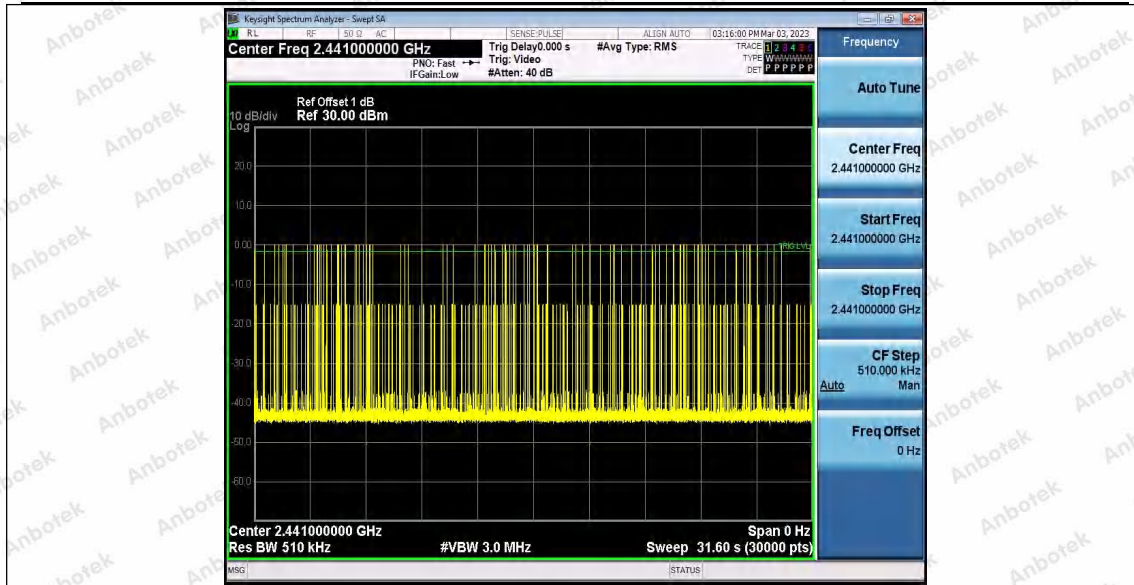
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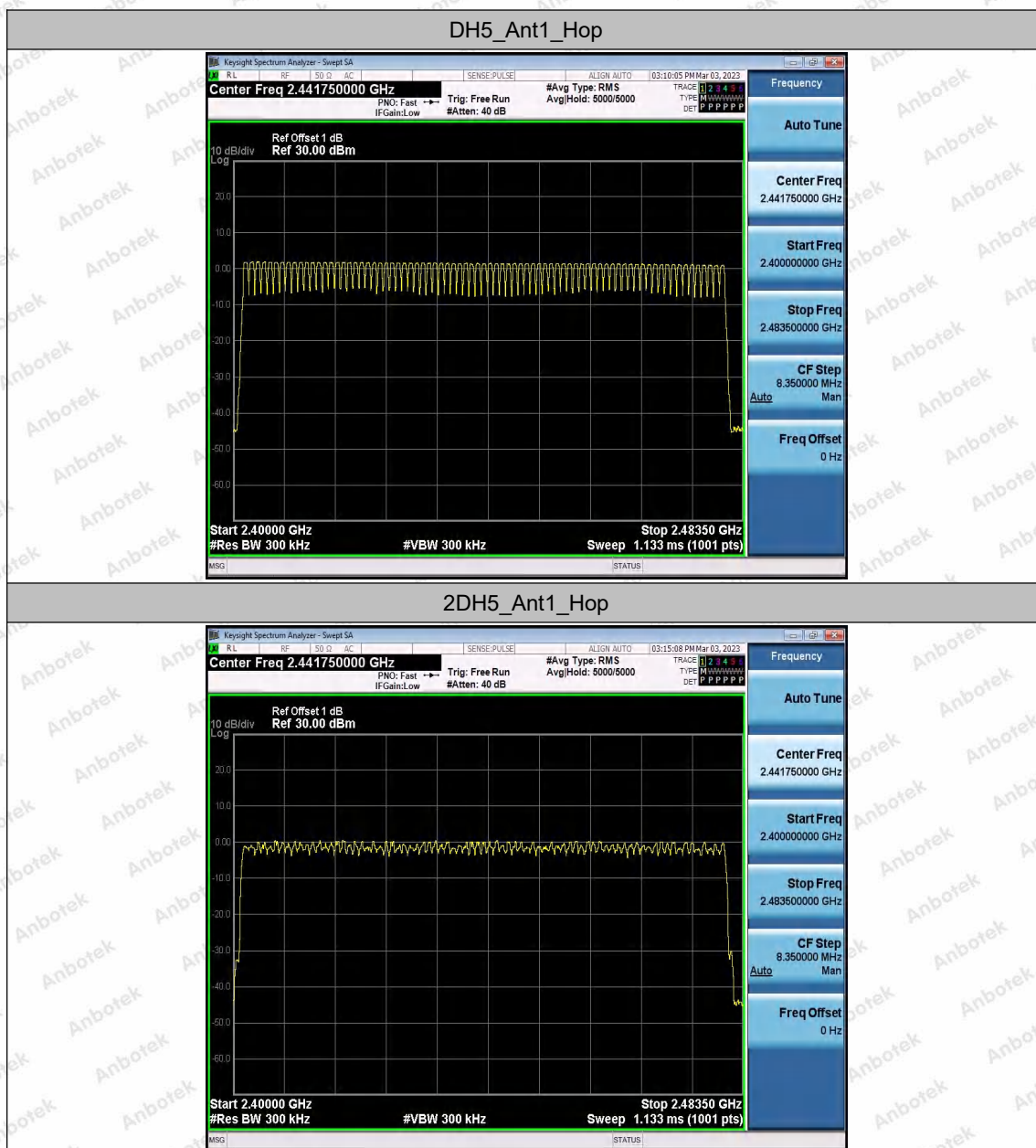


Appendix F: Number of hopping channels

Test Result

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

Test Graphs



Appendix G: Band edge measurements

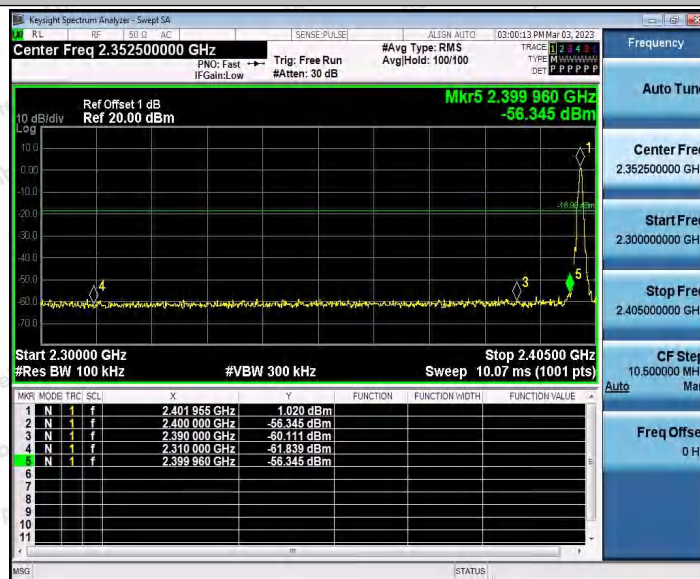
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.02	-56.35	≤-18.98	PASS
		High	2480	0.25	-56.66	≤-19.75	PASS
		Low	Hop_2402	1.31	-57.71	≤-18.69	PASS
		High	Hop_2480	0.61	-56.66	≤-19.4	PASS
2DH5	Ant1	Low	2402	-0.88	-56.03	≤-20.88	PASS
		High	2480	-2.78	-57.1	≤-22.78	PASS
		Low	Hop_2402	-2.31	-57.76	≤-22.31	PASS
		High	Hop_2480	-0.29	-44.96	≤-20.29	PASS

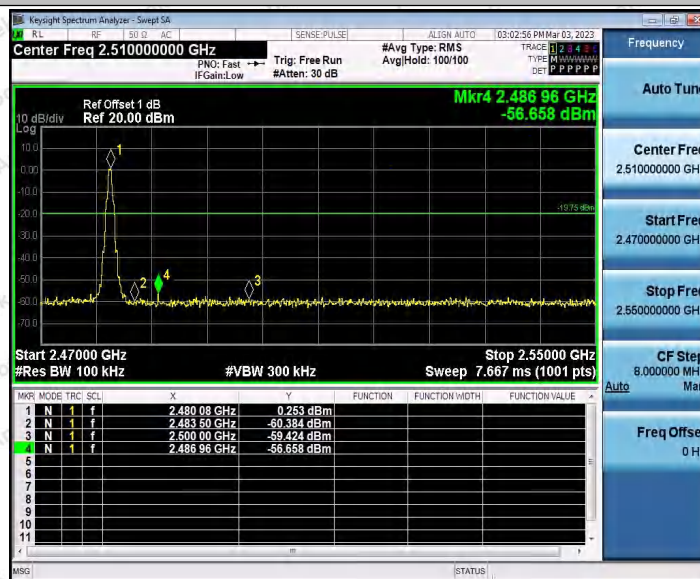


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

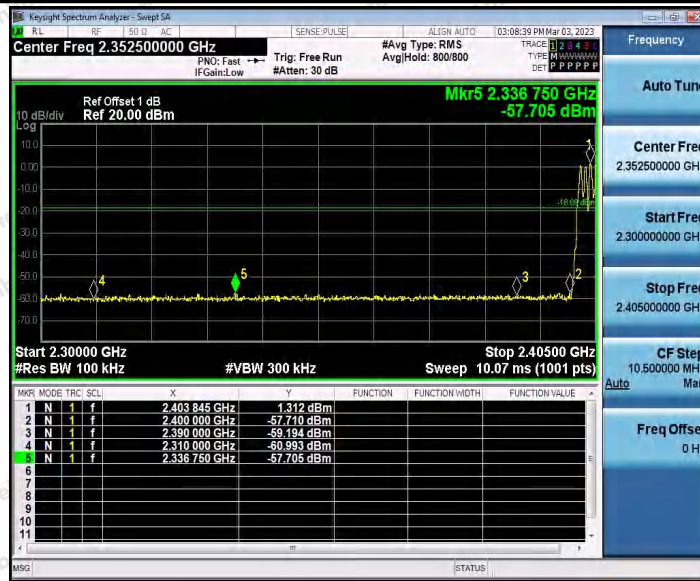
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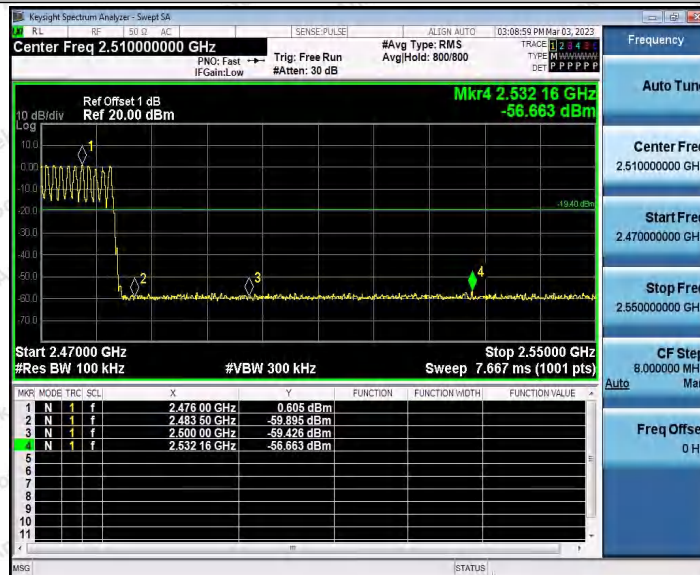


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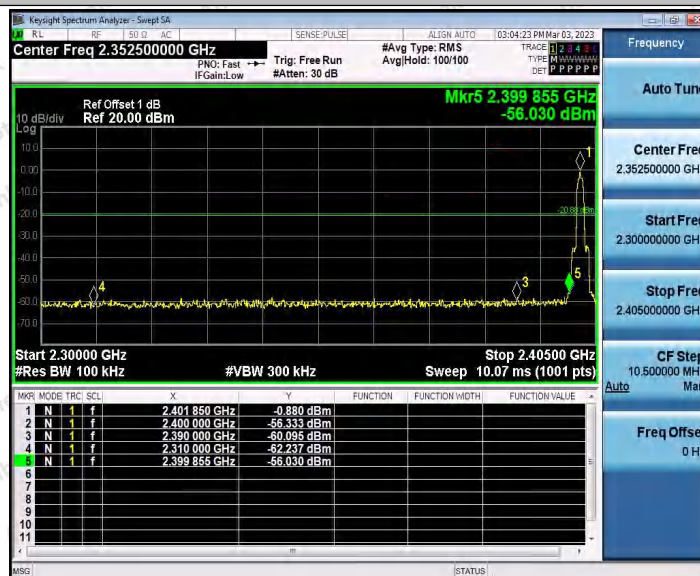




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



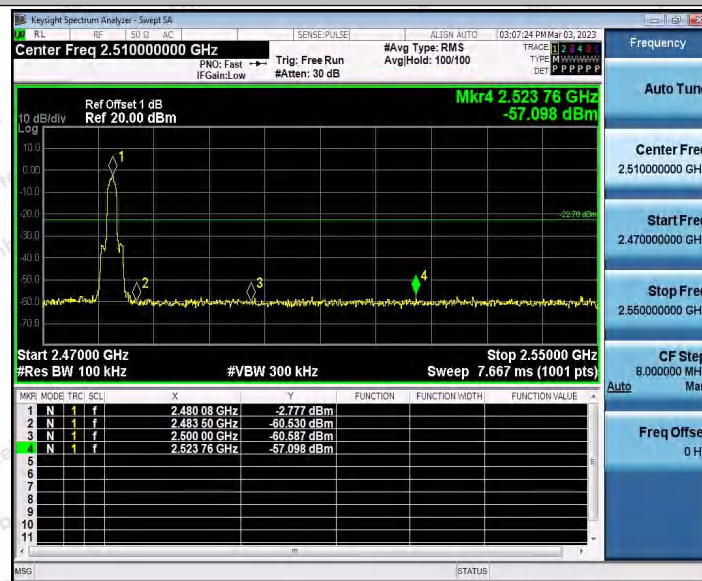
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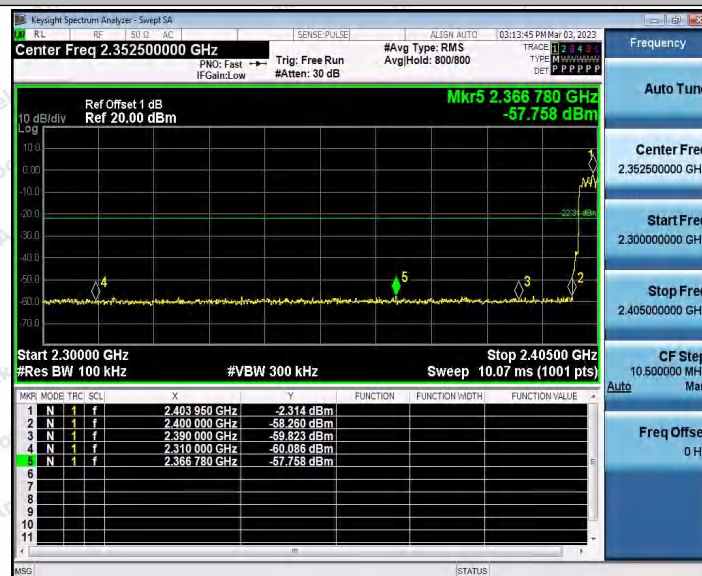
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

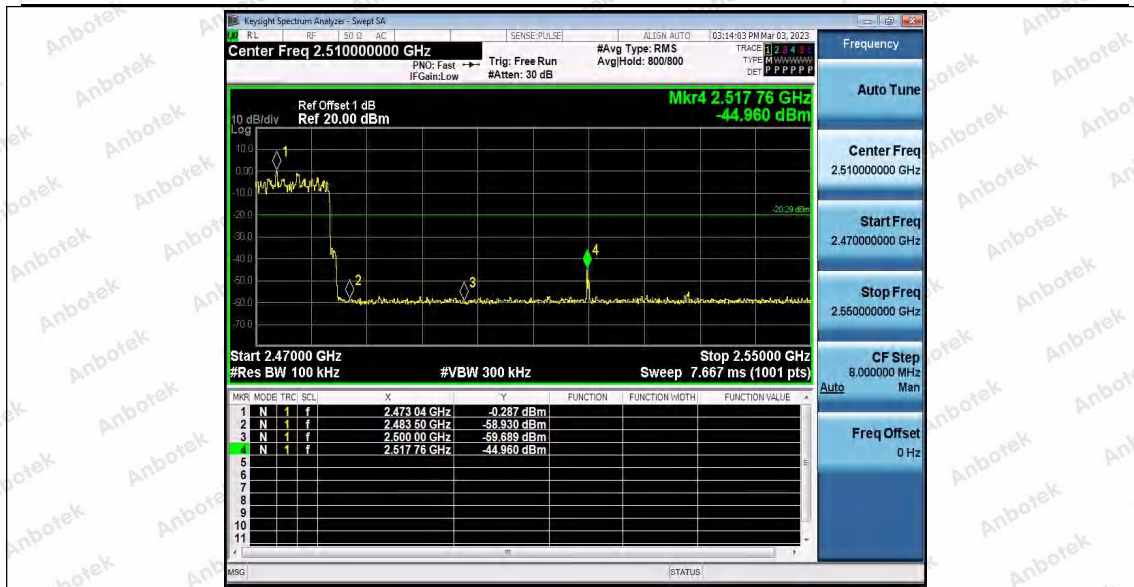
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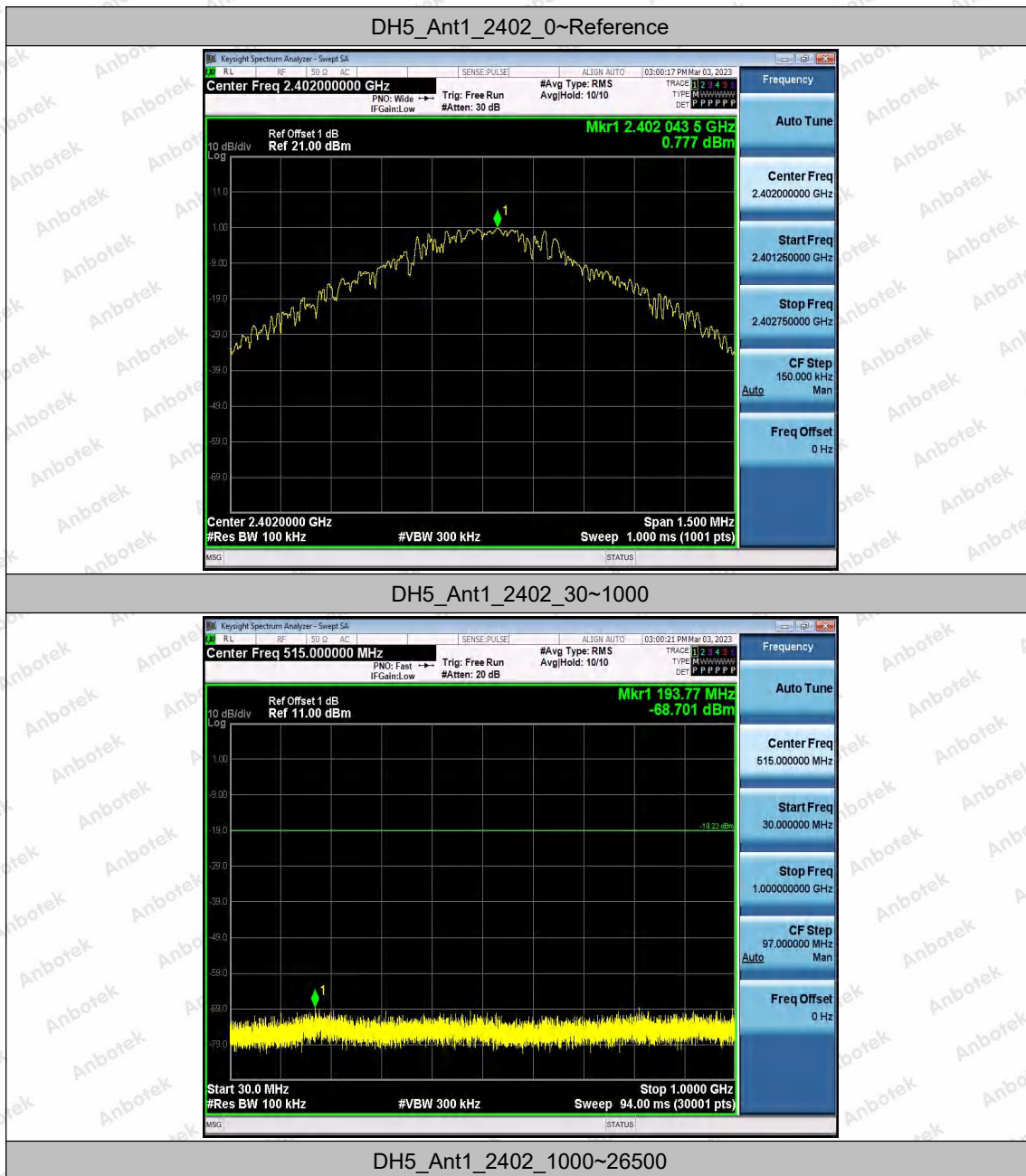
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.78	0.78	---	PASS
			30~1000	0.78	-68.7	≤-19.22	PASS
			1000~26500	0.78	-53.12	≤-19.22	PASS
		2441	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-69.07	≤-19.79	PASS
			1000~26500	0.21	-53.16	≤-19.79	PASS
		2480	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-68.33	≤-20.43	PASS
			1000~26500	-0.43	-53.52	≤-20.43	PASS
2DH5	Ant1	2402	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-68.68	≤-23.38	PASS
			1000~26500	-3.38	-52.99	≤-23.38	PASS
		2441	Reference	-3.86	-3.86	---	PASS
			30~1000	-3.86	-68.91	≤-23.86	PASS
			1000~26500	-3.86	-53.45	≤-23.86	PASS
		2480	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-68.83	≤-21.65	PASS
			1000~26500	-1.65	-52.94	≤-21.65	PASS



Test Graphs



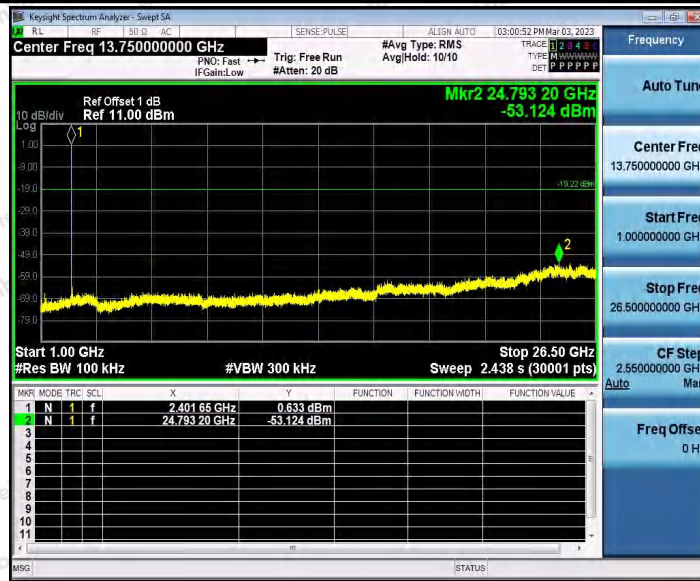
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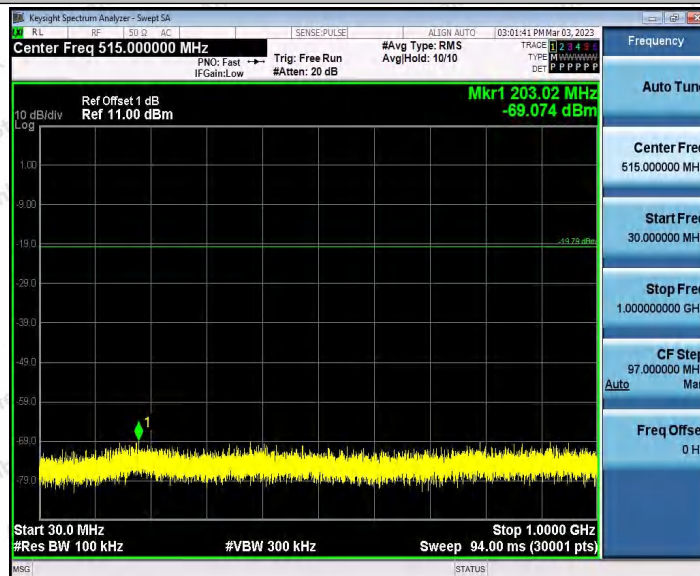




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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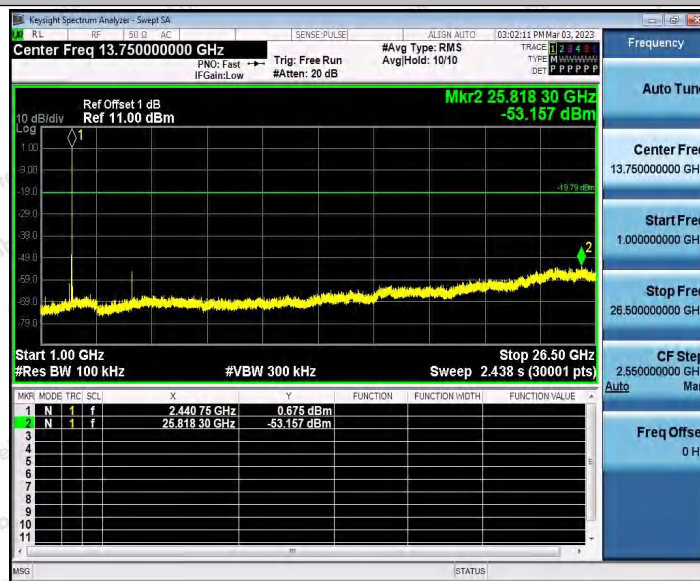
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

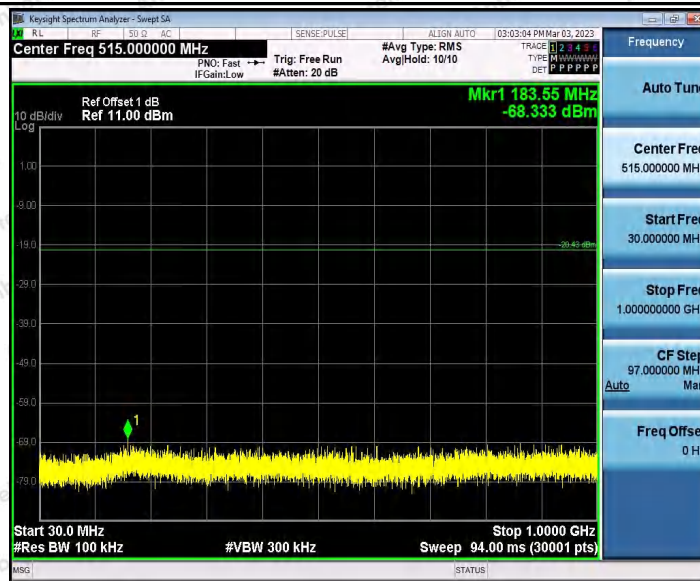
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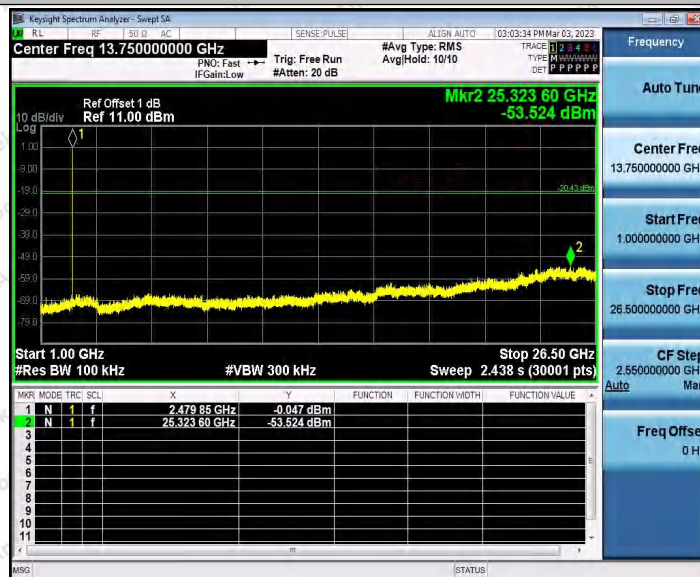


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



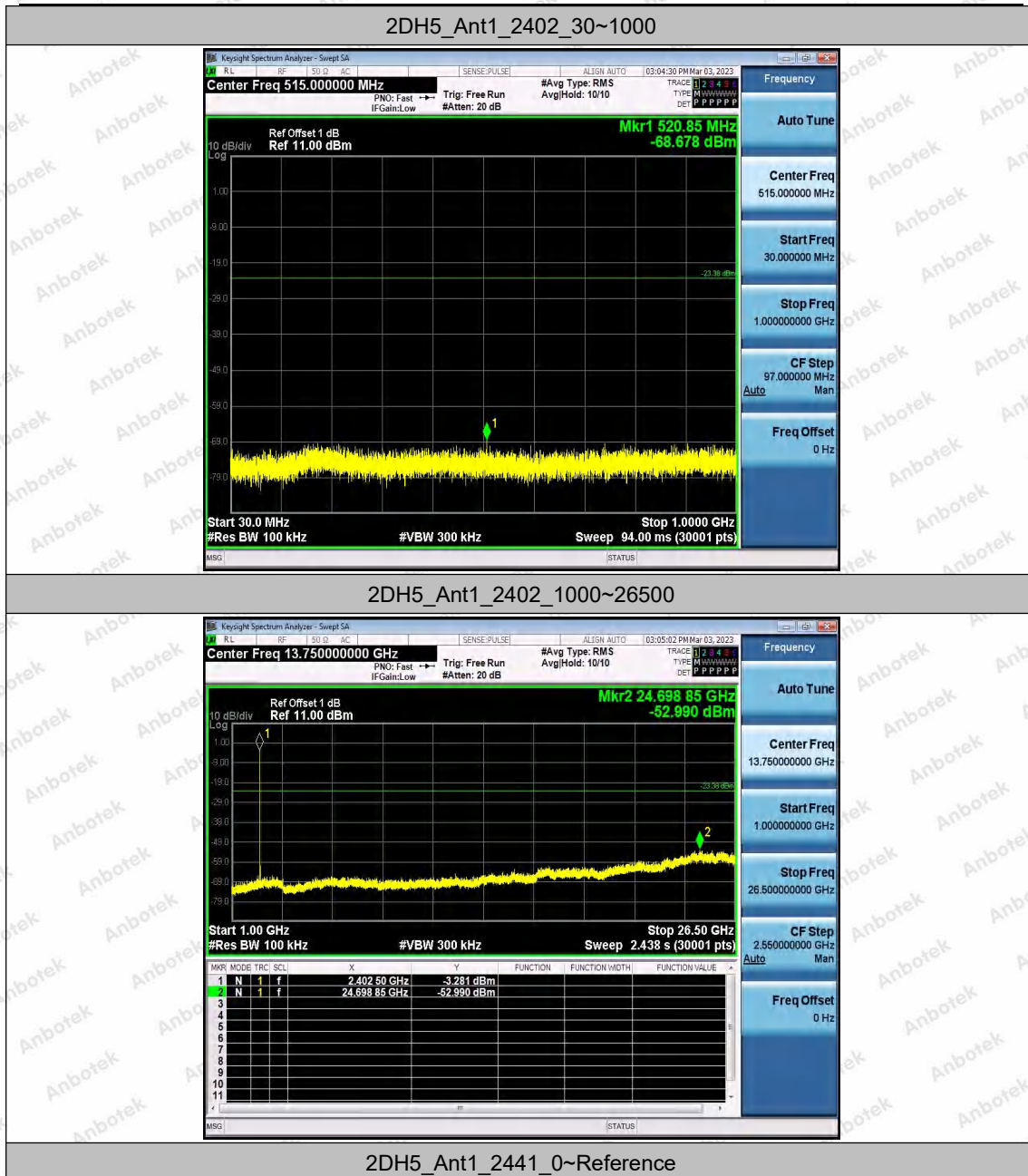
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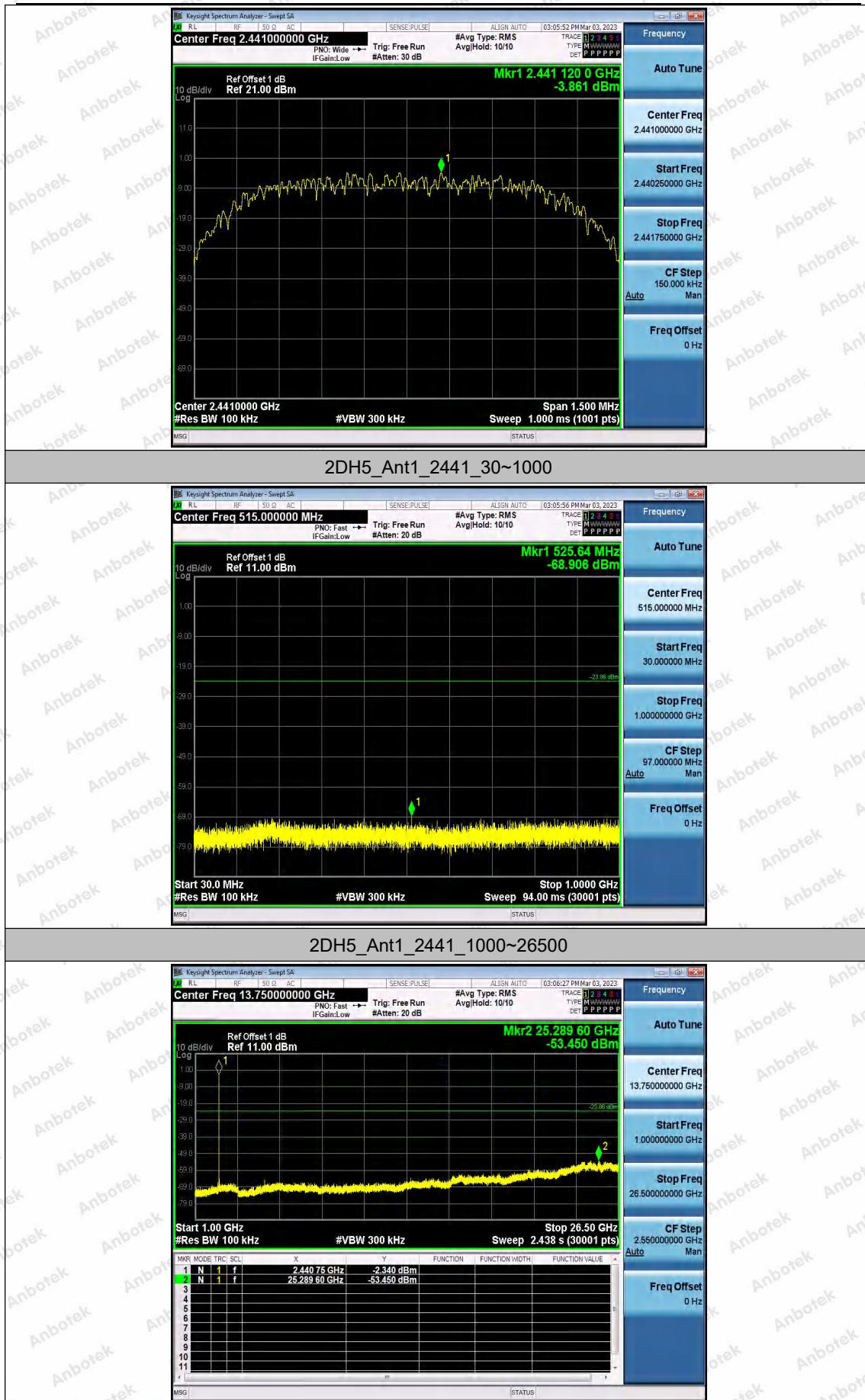
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

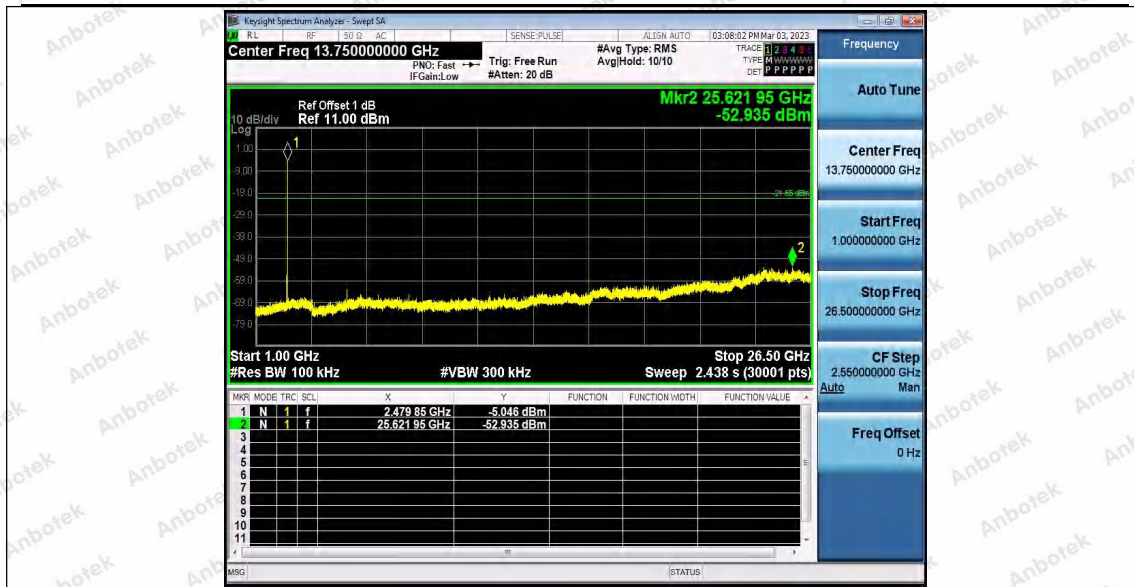
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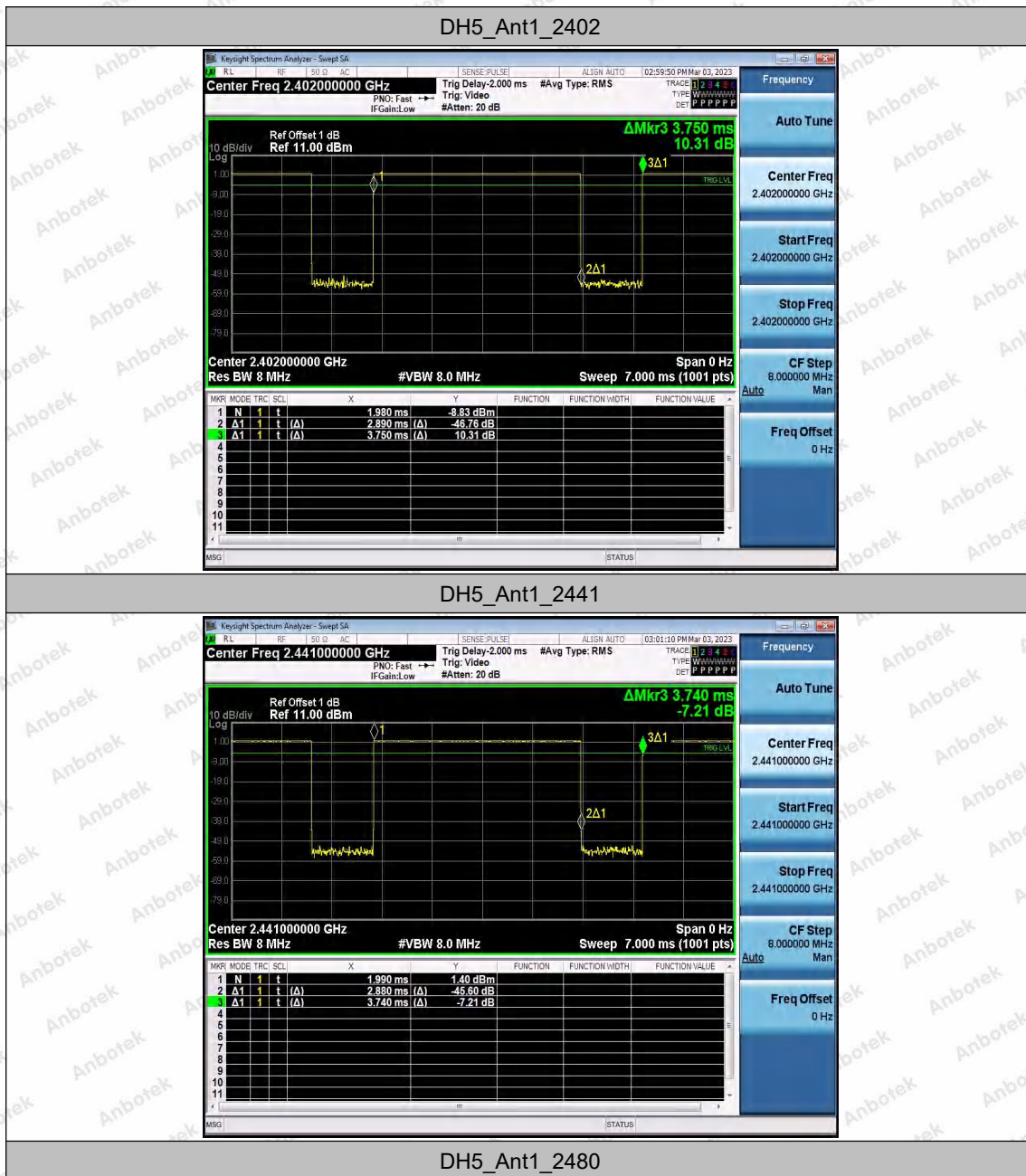
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.88	3.74	77.01	1.13
		2480	2.88	3.74	77.01	1.13
2DH5	Ant1	2402	2.88	3.76	76.60	1.16
		2441	2.88	3.75	76.80	1.15
		2480	2.89	3.75	77.07	1.13



Test Graphs



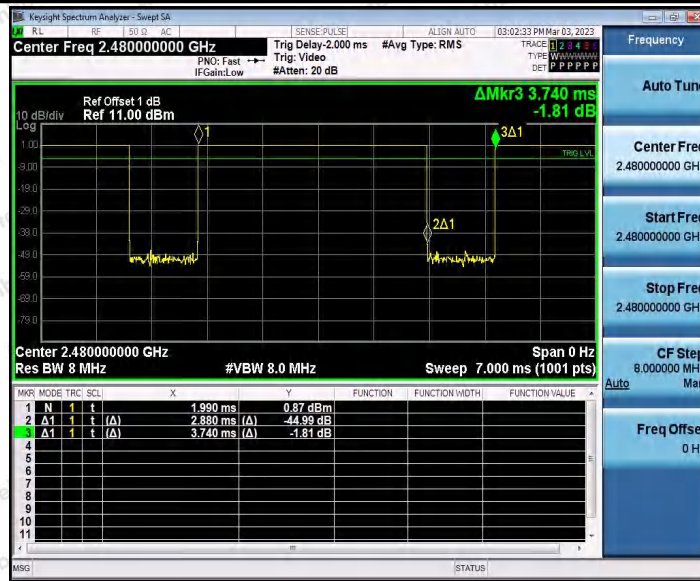
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

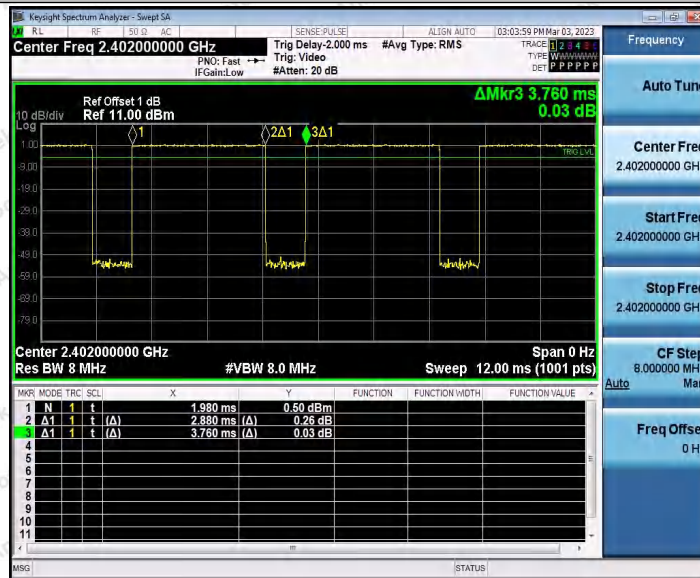


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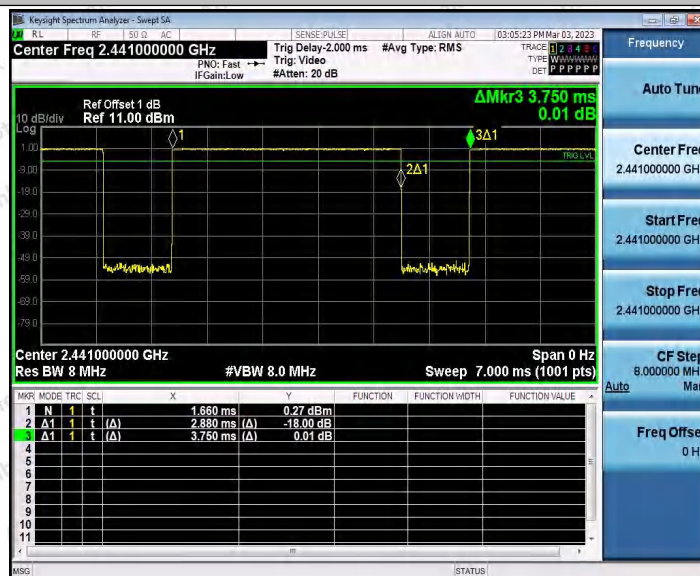




2DH5_Ant1_2402



2DH5_Ant1_2441



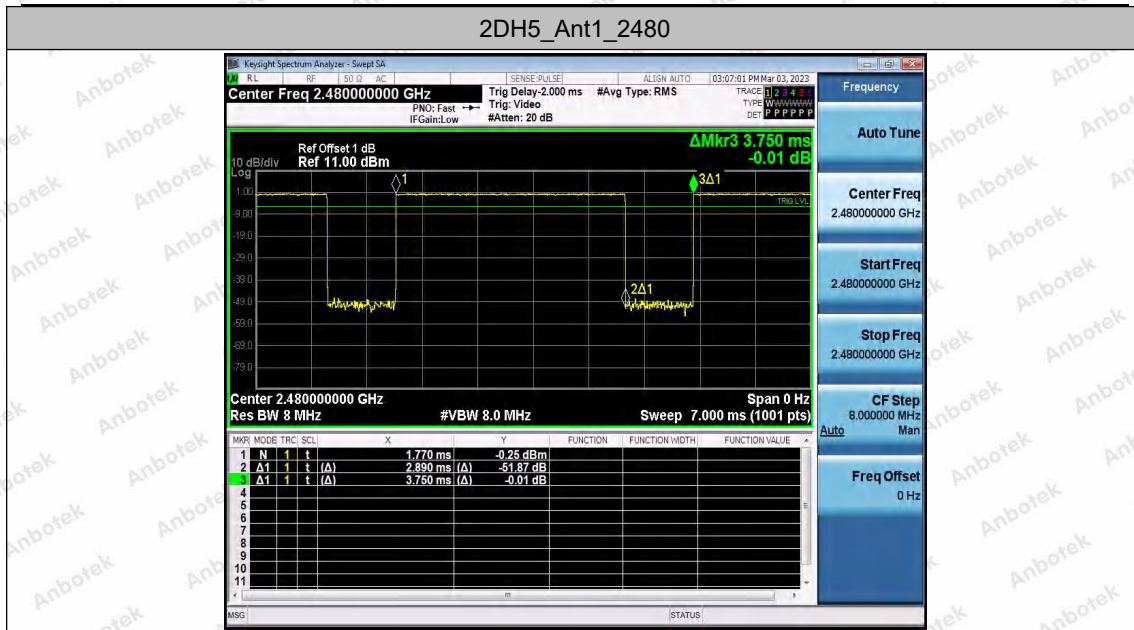
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