

Appendix Test Data

Report No.:	18220WC20055501	Test Sample No.:	1-2-2
Start Test Date:	2022.3.24	Finish Test Date:	2022.3.25
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.535	2402.480	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.942	2479.538	2480.480	---	PASS
2DH5	Ant1	2402	1.305	2401.343	2402.648	---	PASS
		2441	1.290	2440.361	2441.651	---	PASS
		2480	1.272	2479.361	2480.633	---	PASS
3DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.299	2440.346	2441.645	---	PASS
		2480	1.308	2479.343	2480.651	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88817	2401.553	2402.441	---	PASS
		2441	0.88611	2440.555	2441.441	---	PASS
		2480	0.88770	2479.555	2480.442	---	PASS
2DH5	Ant1	2402	1.1924	2401.403	2402.595	---	PASS
		2441	1.1965	2440.401	2441.598	---	PASS
		2480	1.1908	2479.404	2480.595	---	PASS
3DH5	Ant1	2402	1.2082	2401.386	2402.594	---	PASS
		2441	1.2048	2440.389	2441.594	---	PASS
		2480	1.2057	2479.387	2480.593	---	PASS



2DH5_Ant1_2402



2DH5_Ant1_2441

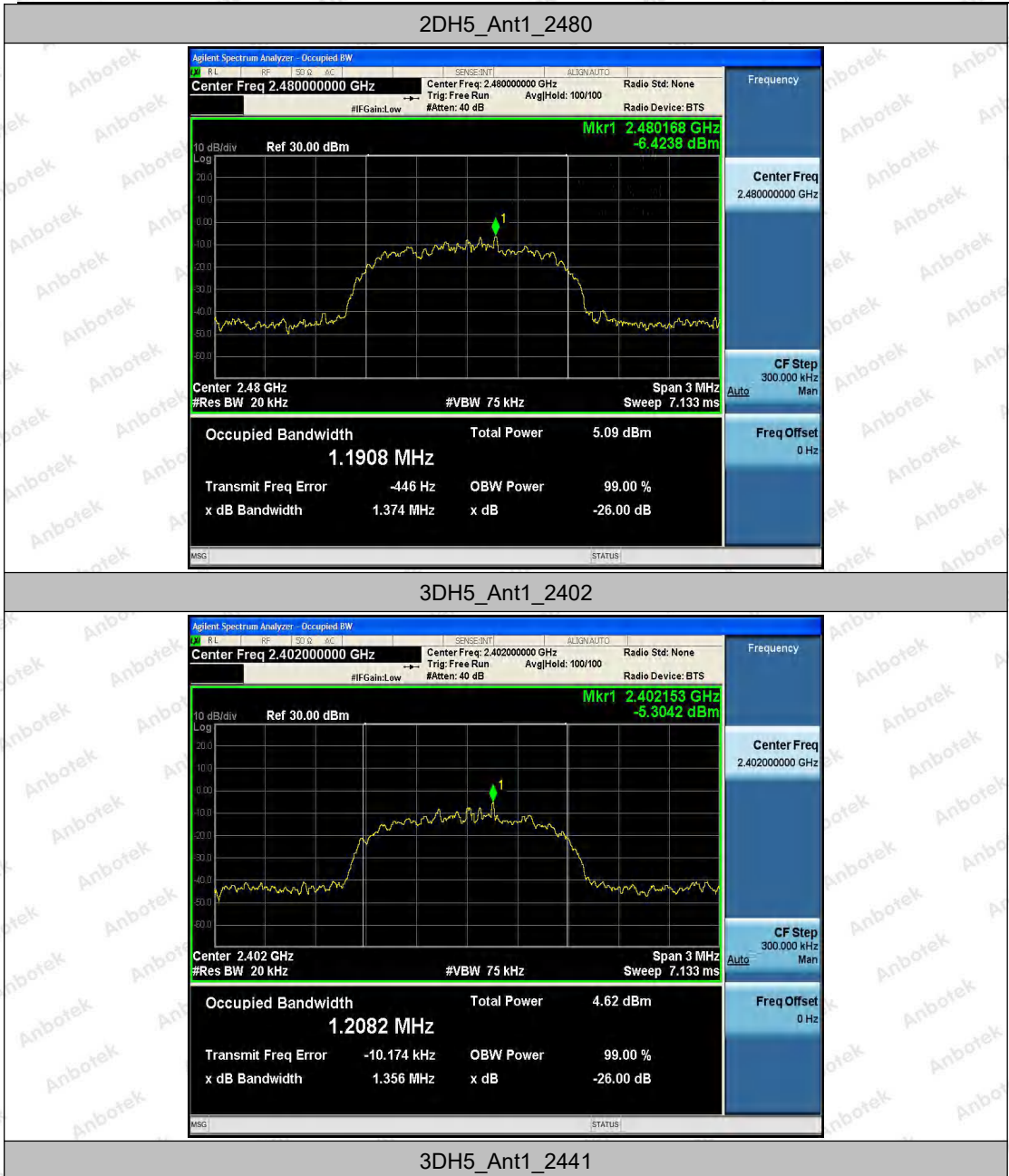


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3DH5_Ant1_2480



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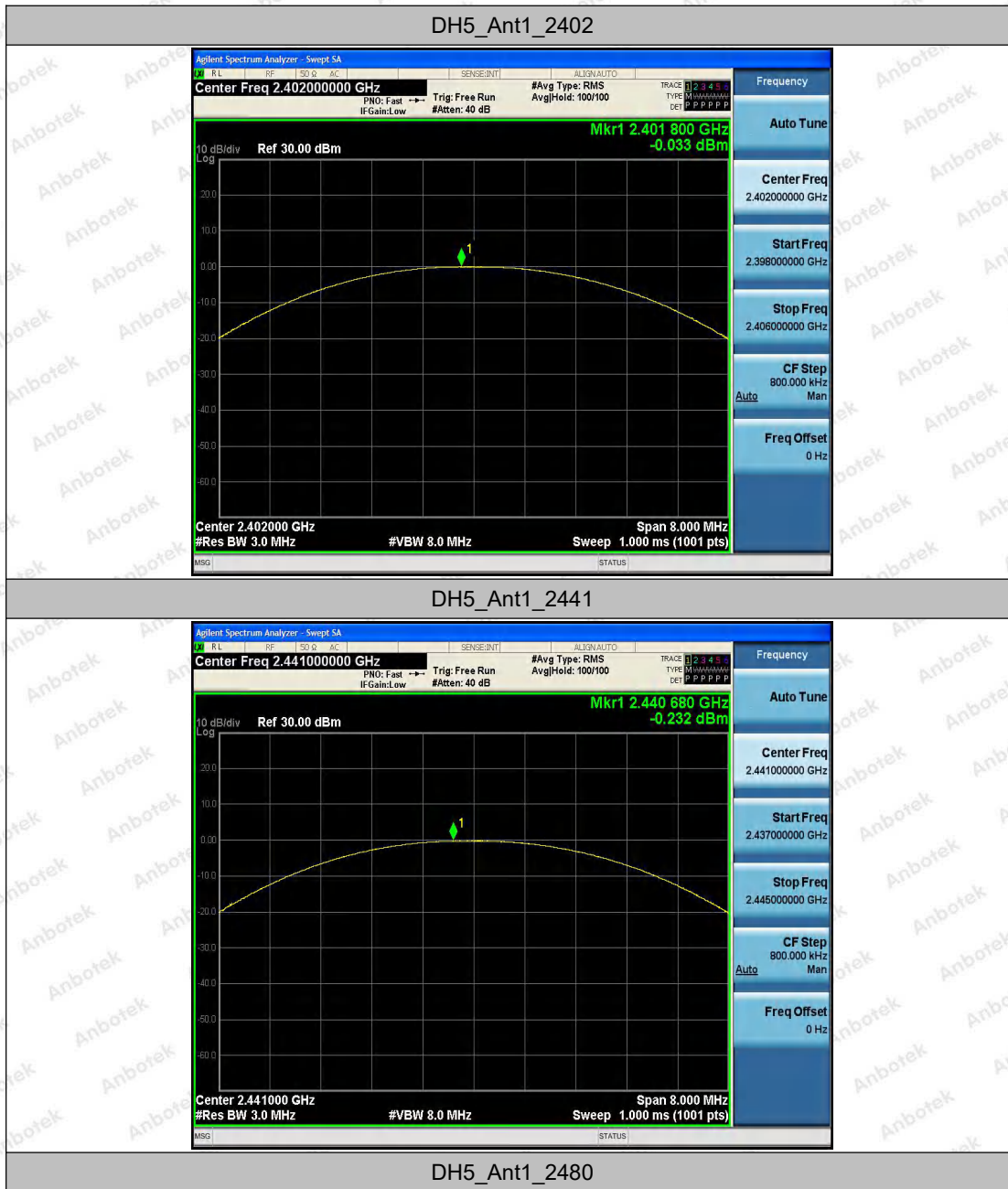
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.03	≤20.97	PASS
		2441	-0.23	≤20.97	PASS
		2480	0.54	≤20.97	PASS
2DH5	Ant1	2402	-0.63	≤20.97	PASS
		2441	-0.87	≤20.97	PASS
		2480	-0.16	≤20.97	PASS
3DH5	Ant1	2402	-0.58	≤20.97	PASS
		2441	-0.82	≤20.97	PASS
		2480	-0.03	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



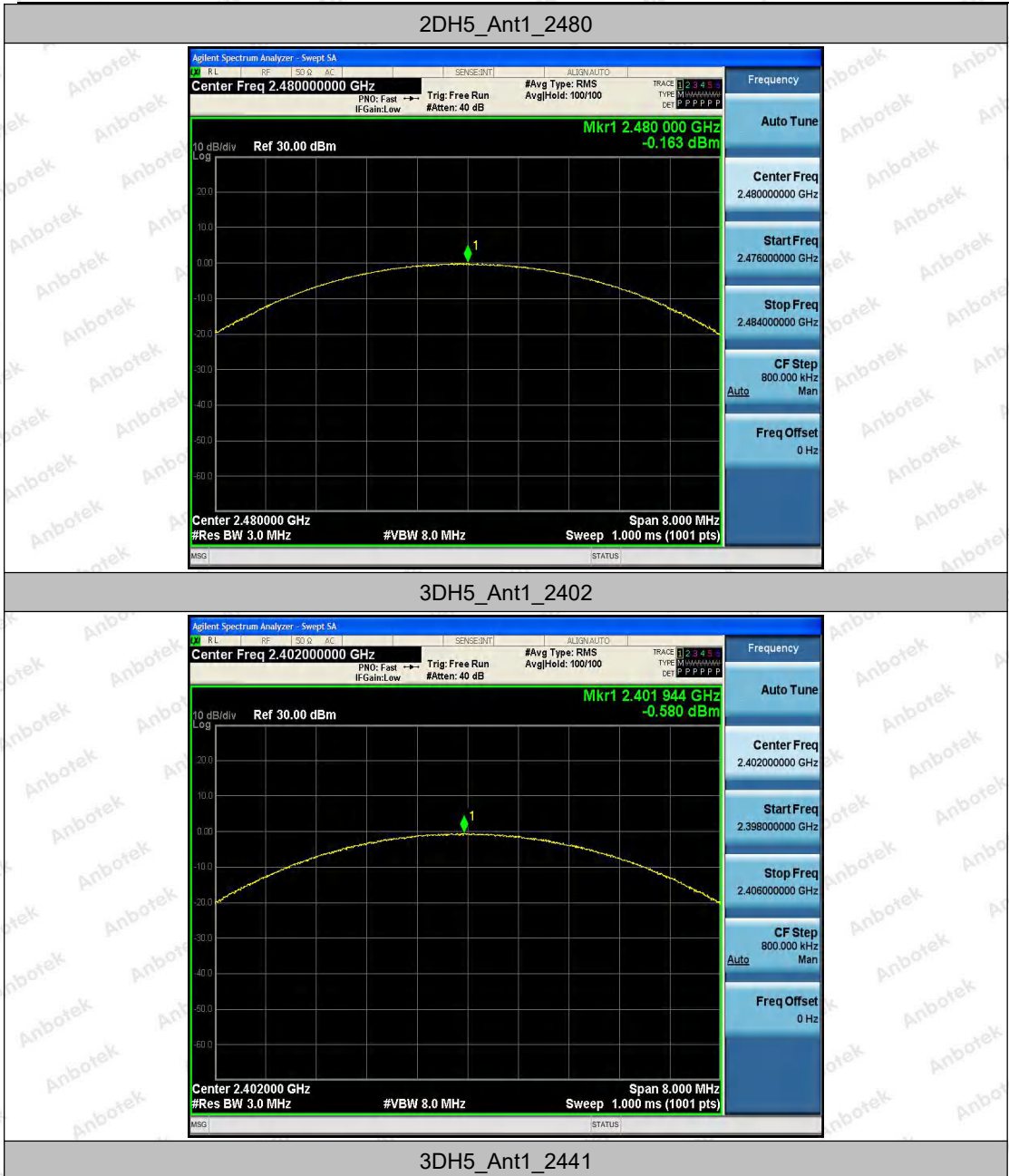
2DH5_Ant1_2441



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3DH5_Ant1_2480



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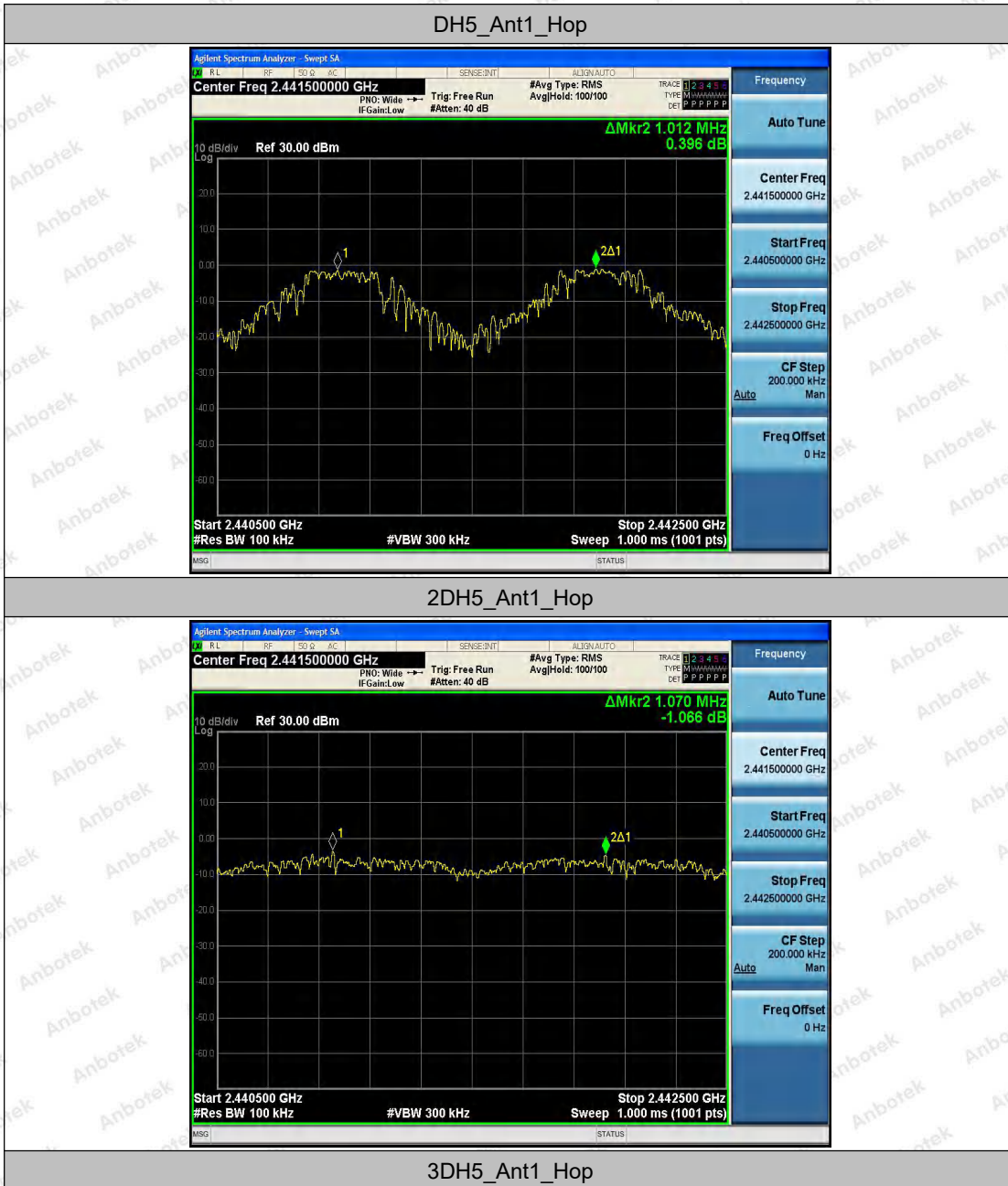
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥ 0.948	PASS
2DH5	Ant1	Hop	1.07	≥ 0.870	PASS
3DH5	Ant1	Hop	1.012	≥ 0.876	PASS

Test Graphs



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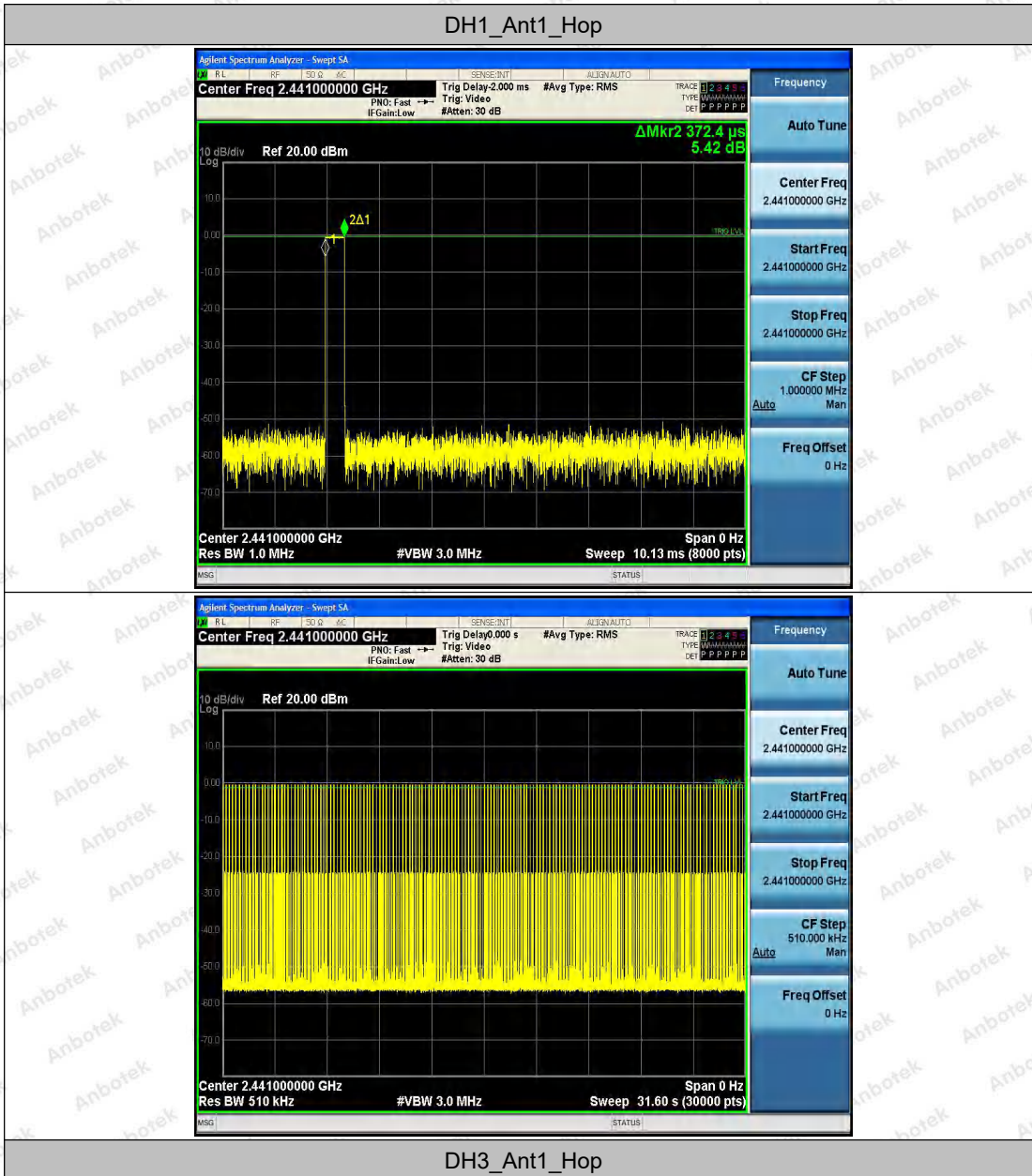
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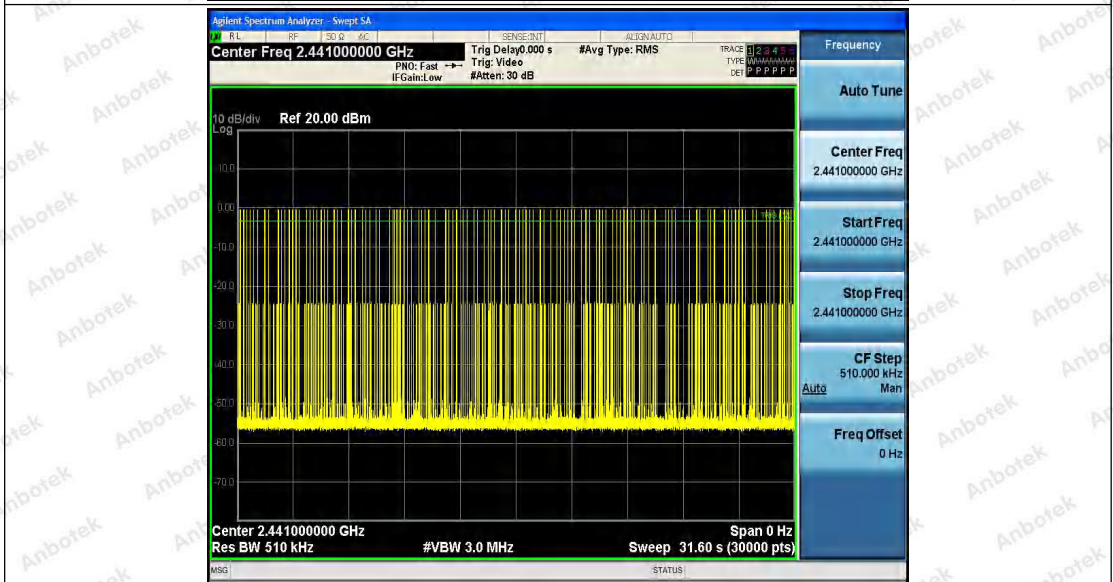
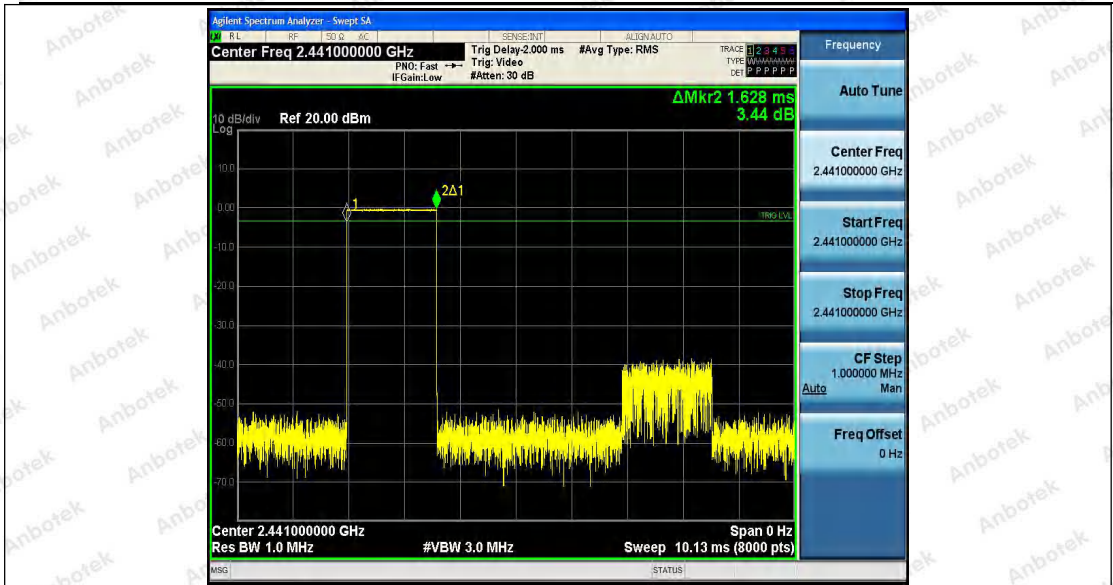
Appendix E: Time of occupancy

Test Result

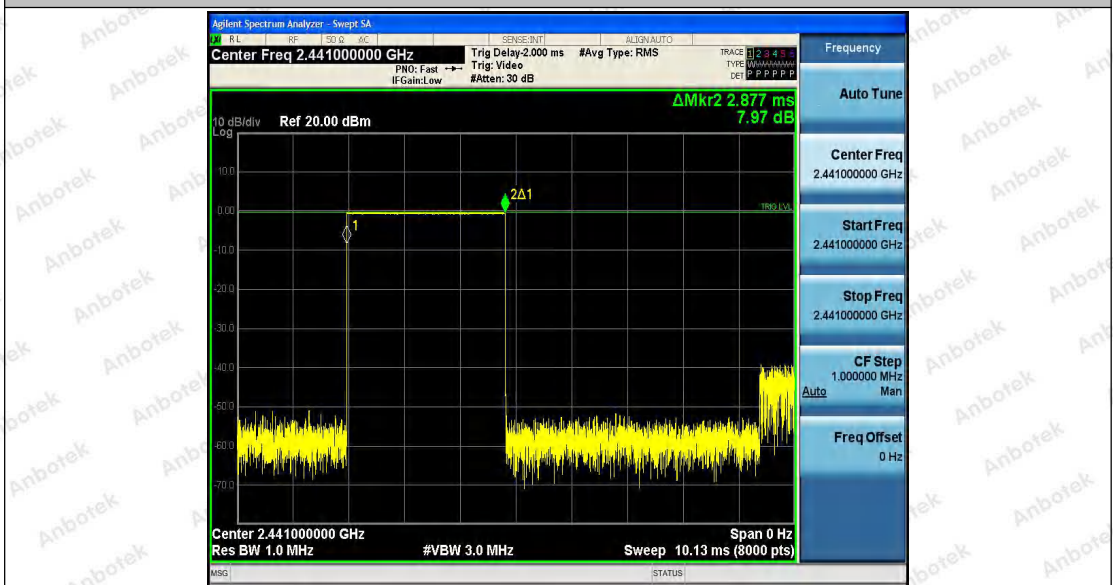
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	161	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.88	105	0.302	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	104	0.299	≤0.4	PASS
3DH1	Ant1	Hop	0.38	315	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

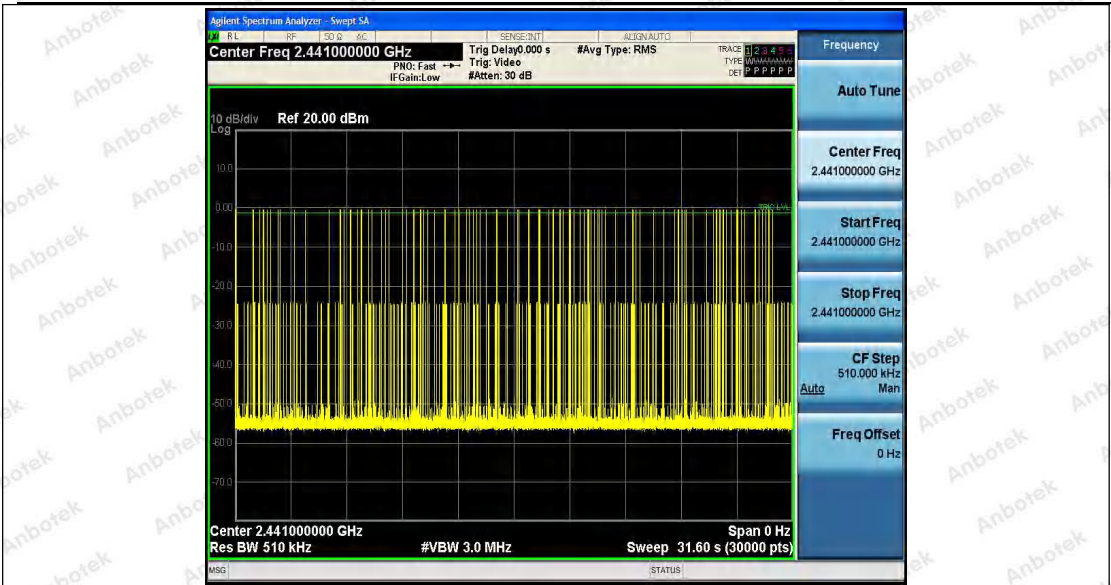


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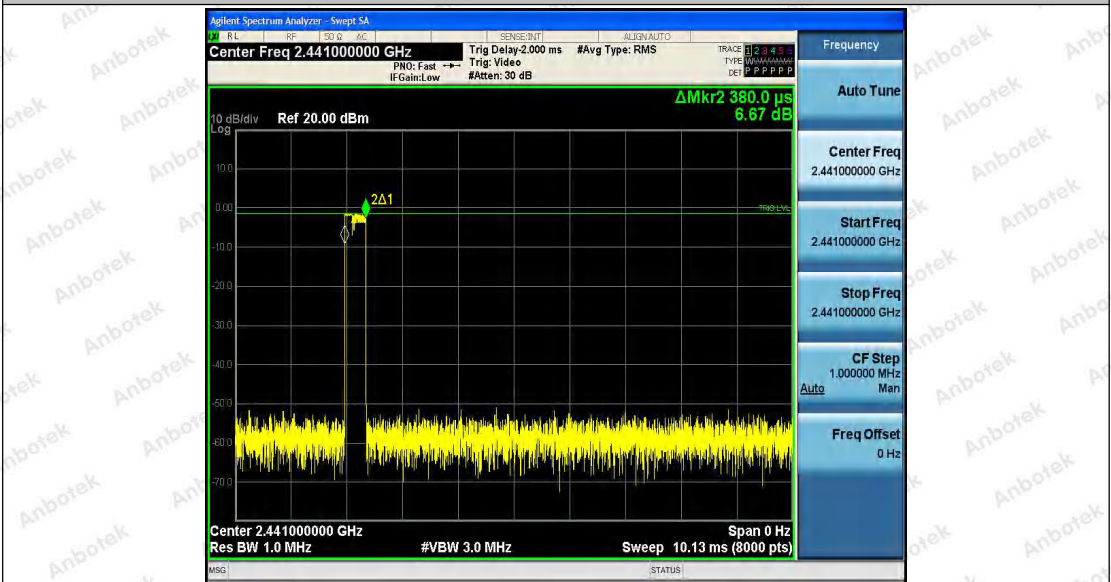
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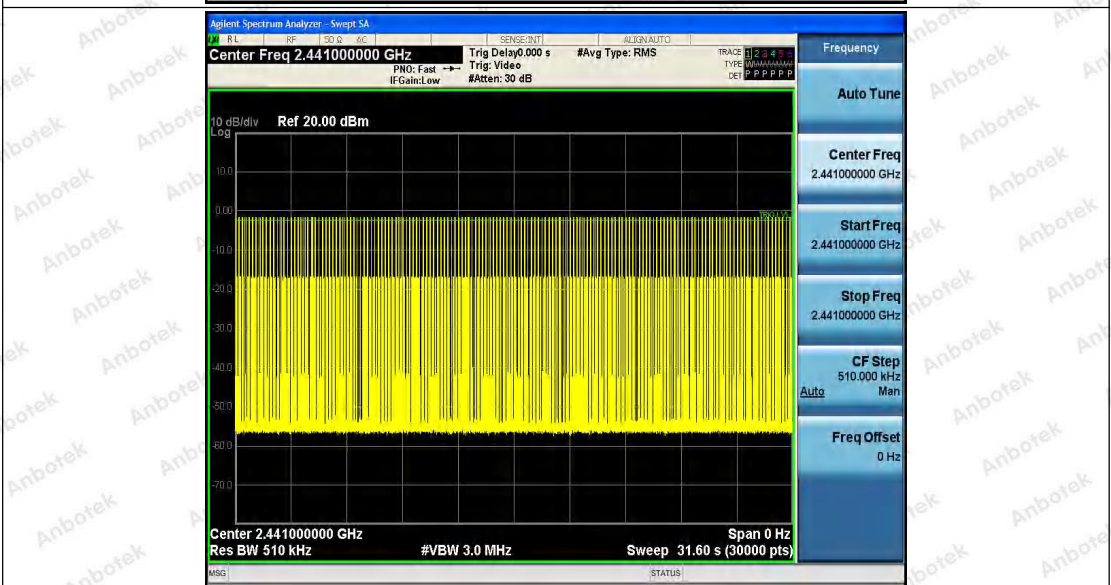
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2DH1_Ant1_Hop



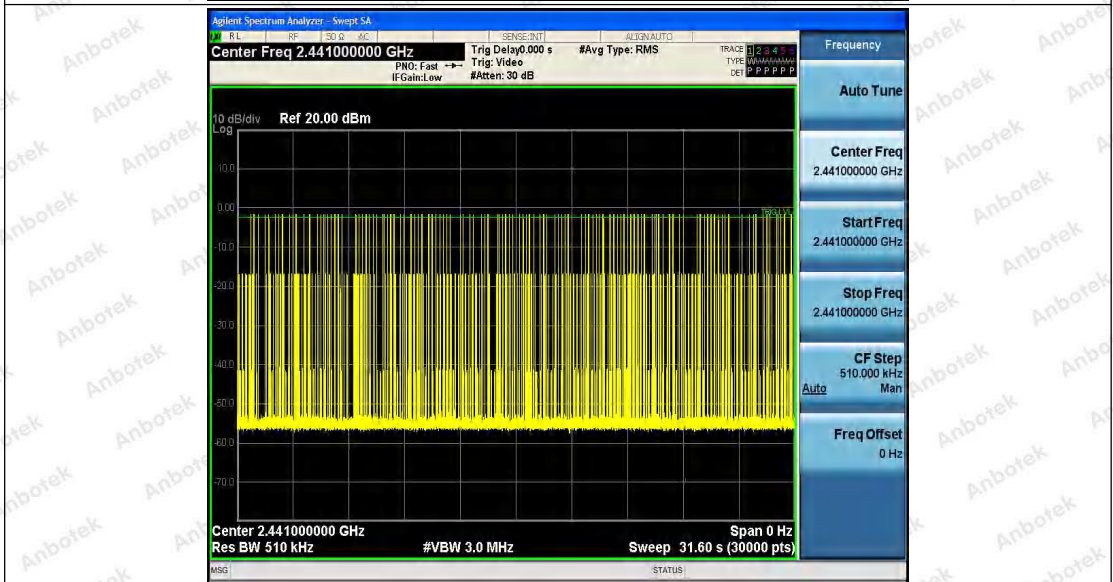
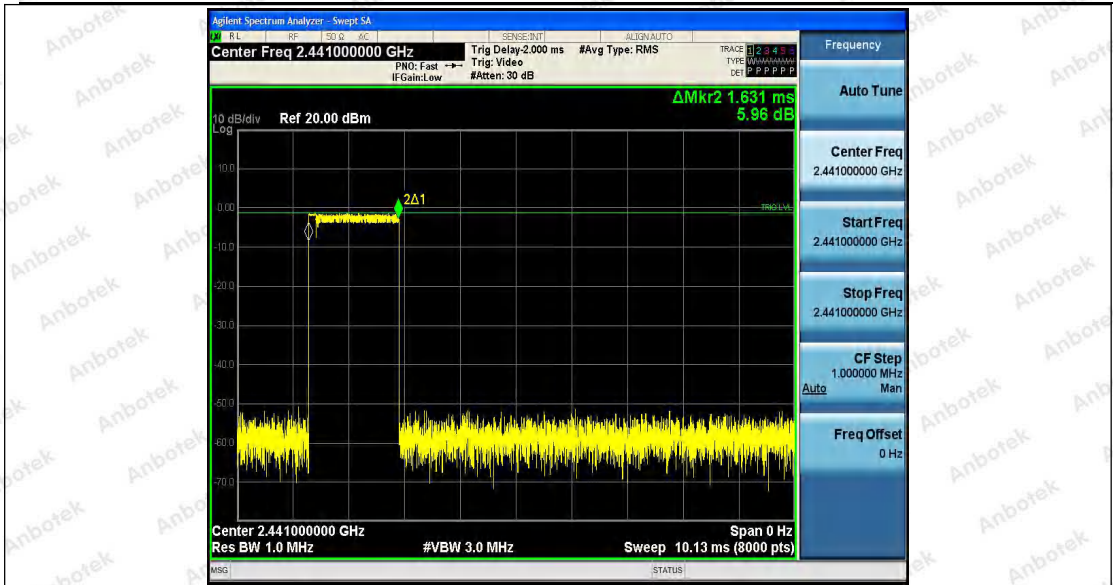
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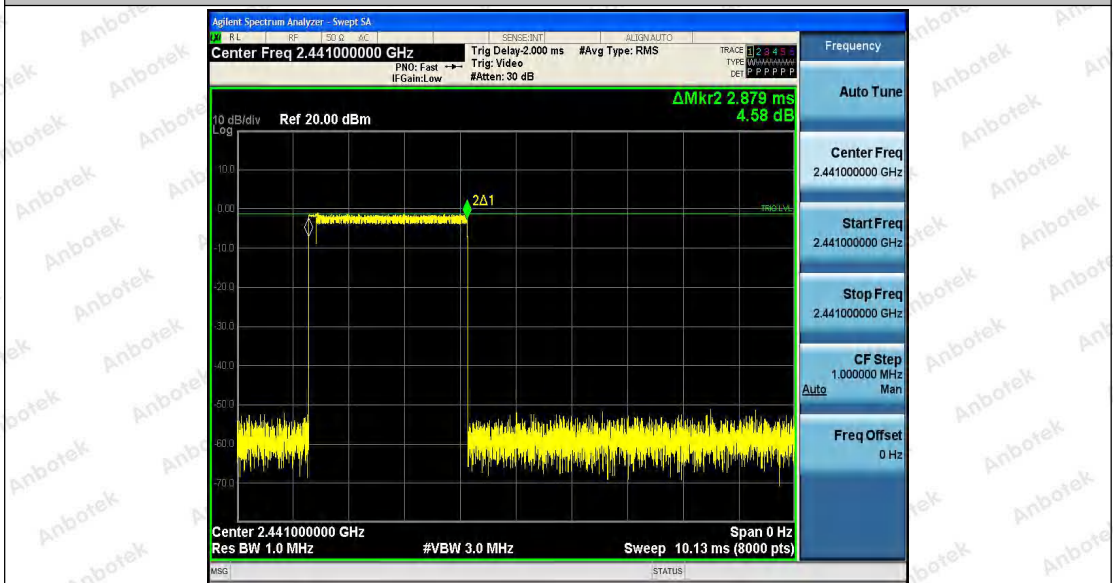
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2DH5_Ant1_Hop

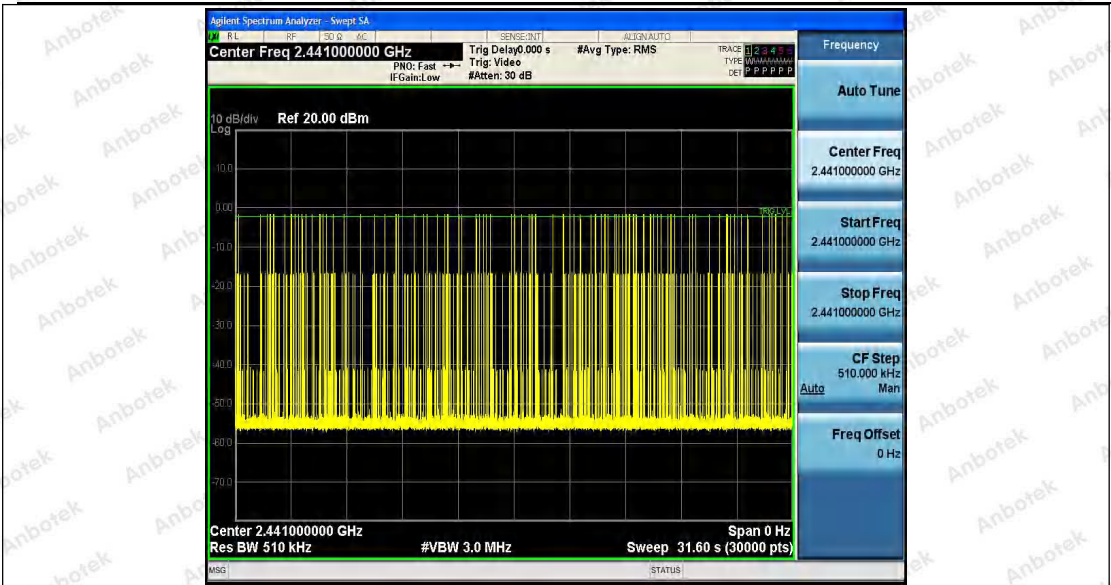


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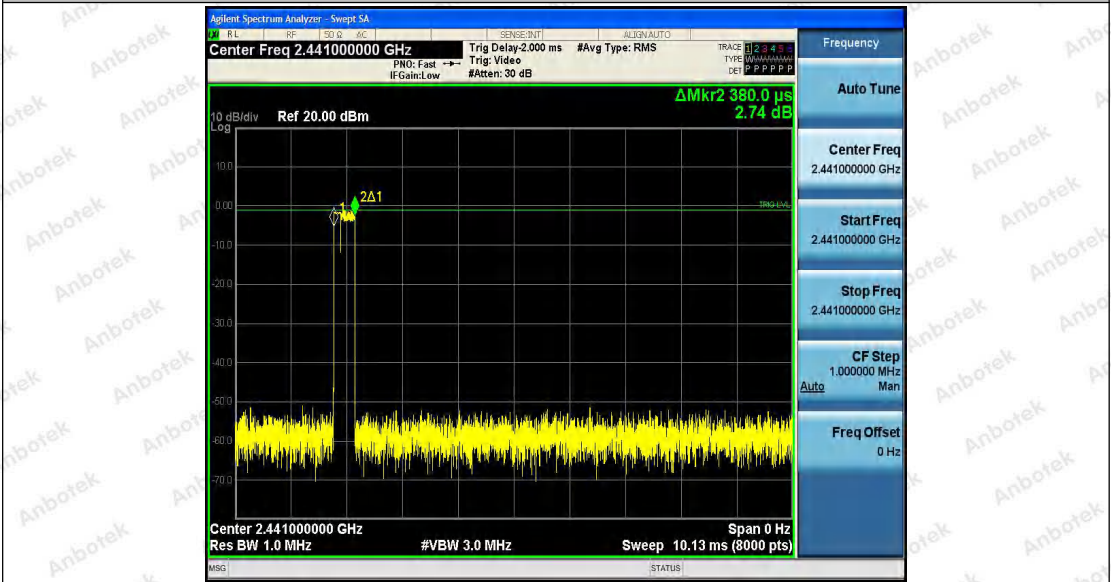
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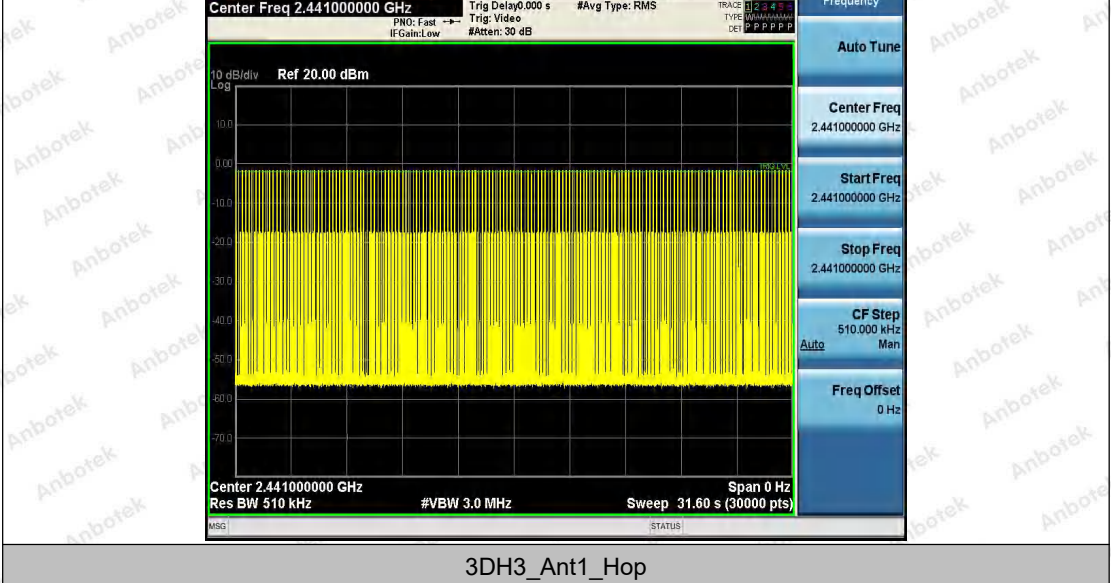
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3DH1_Ant1_Hop



3DH1_Ant1_Hop



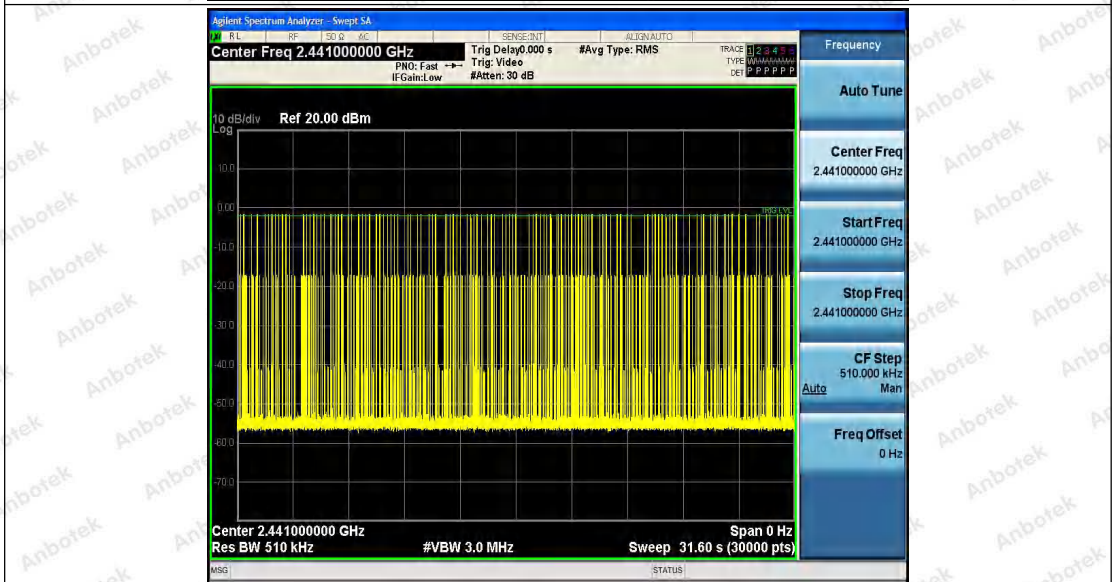
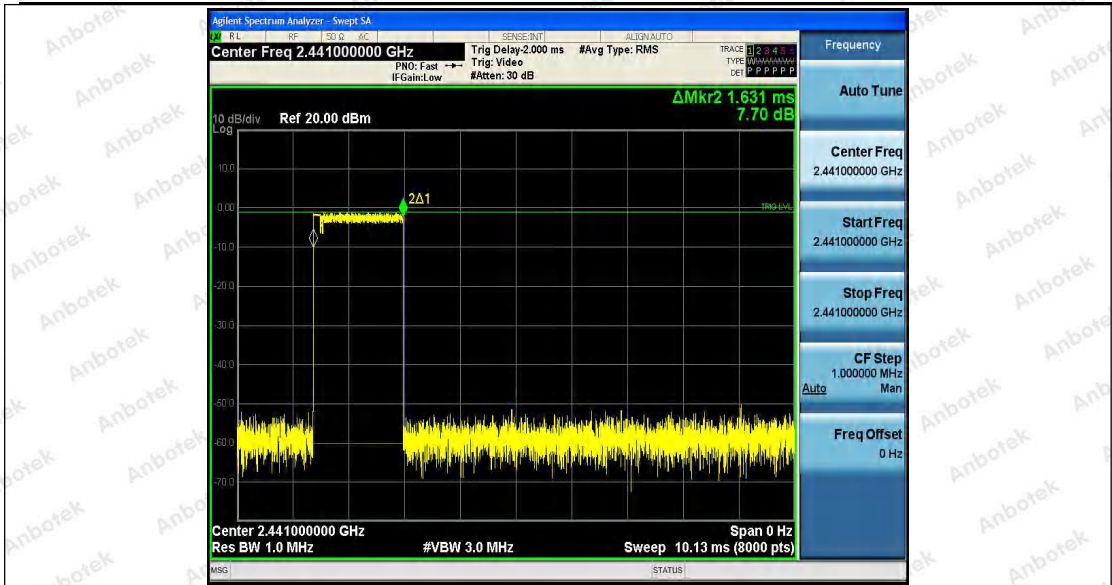
3DH3_Ant1_Hop

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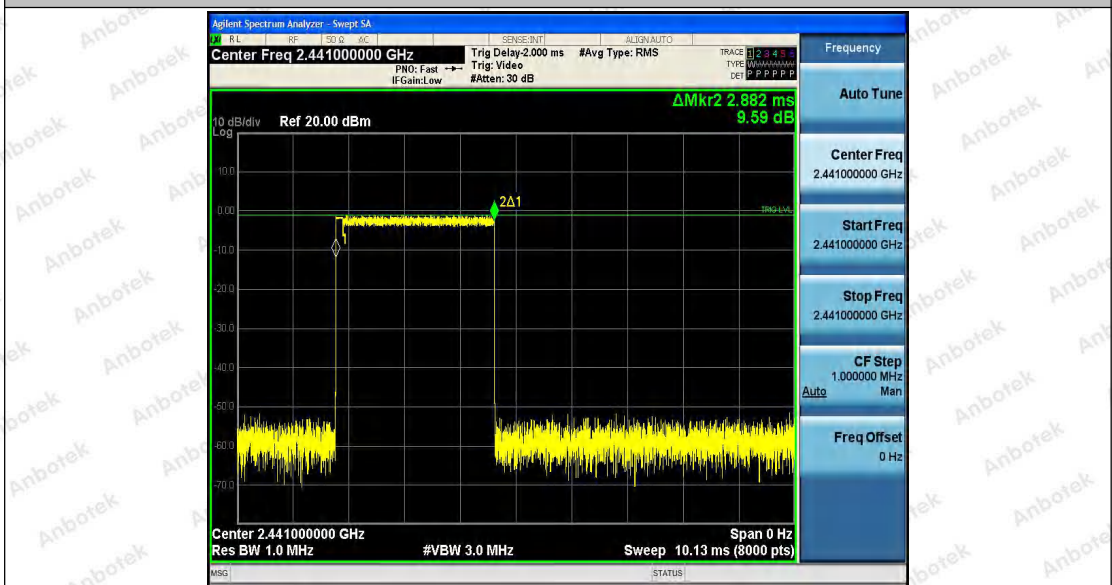
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3DH5_Ant1_Hop

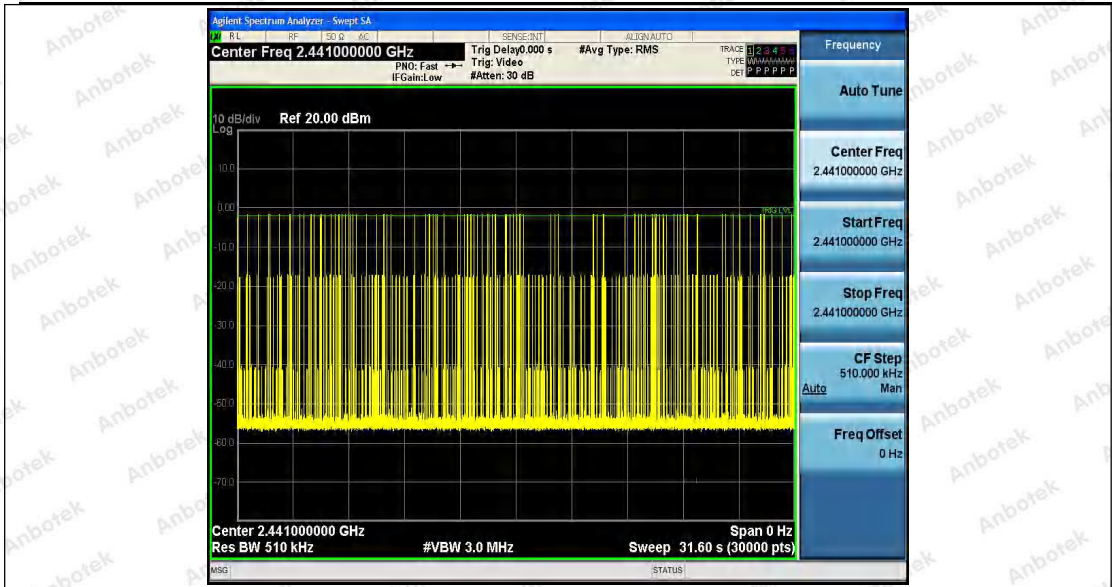


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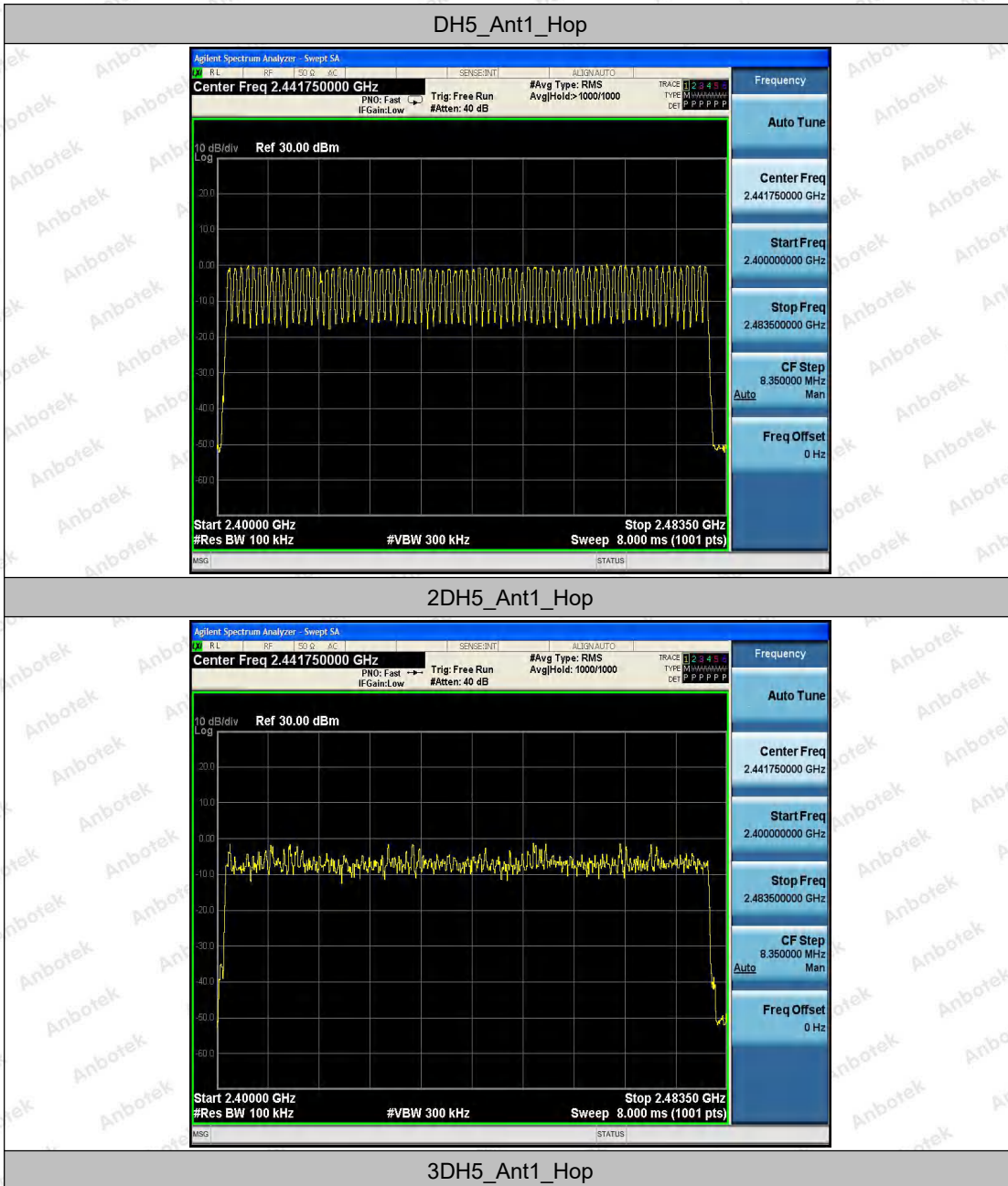
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Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Channel	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

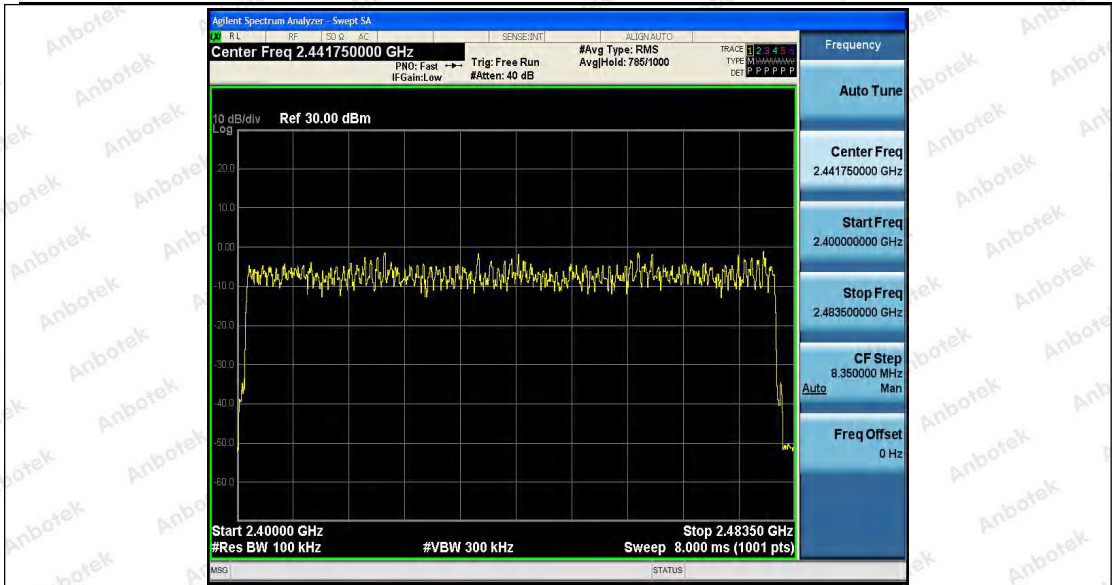


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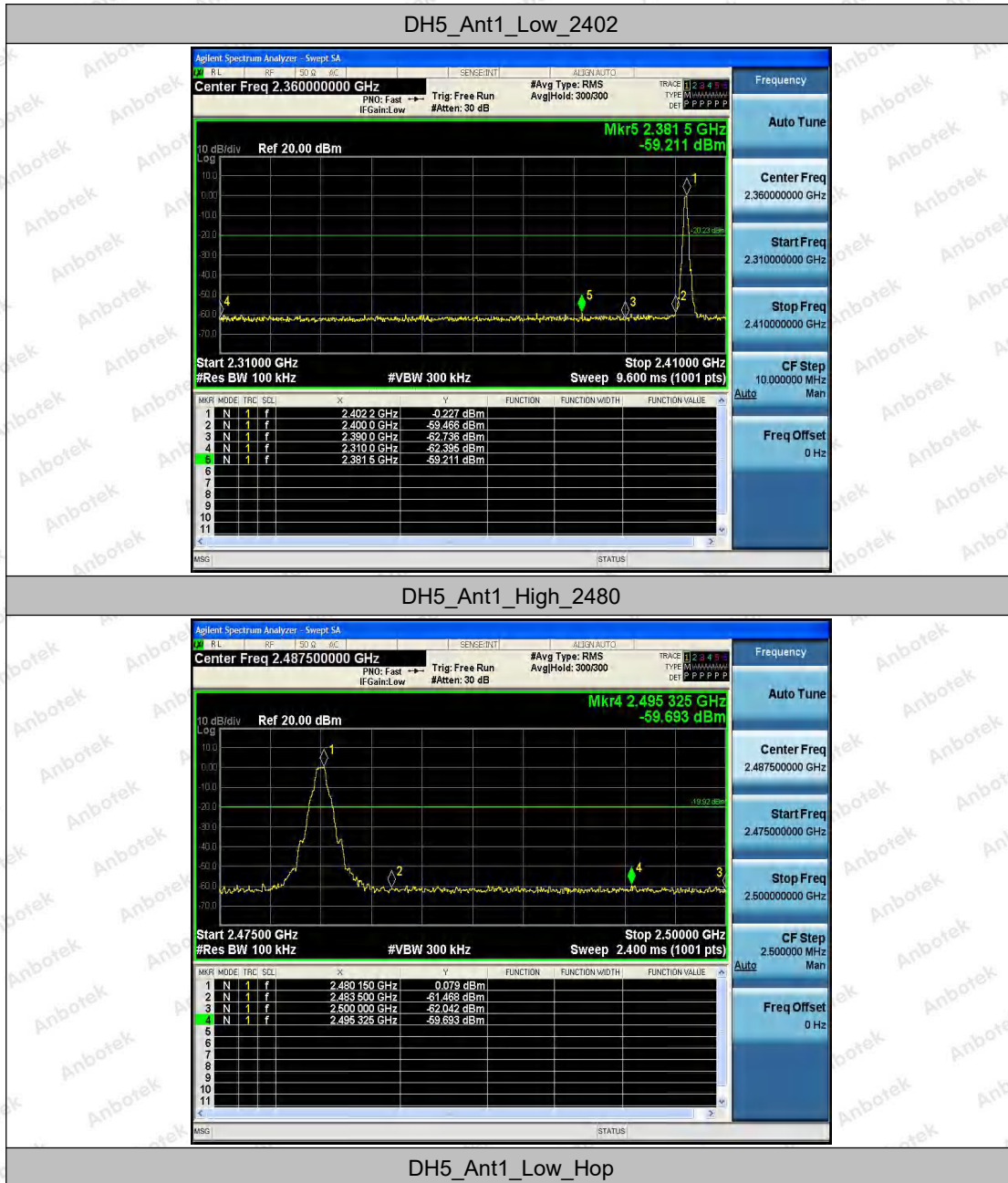
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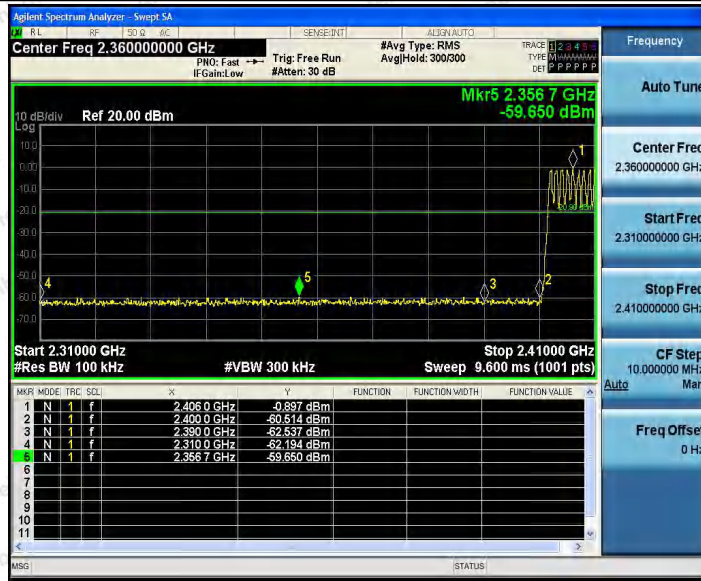
Appendix G: Band edge measurements

Test Result

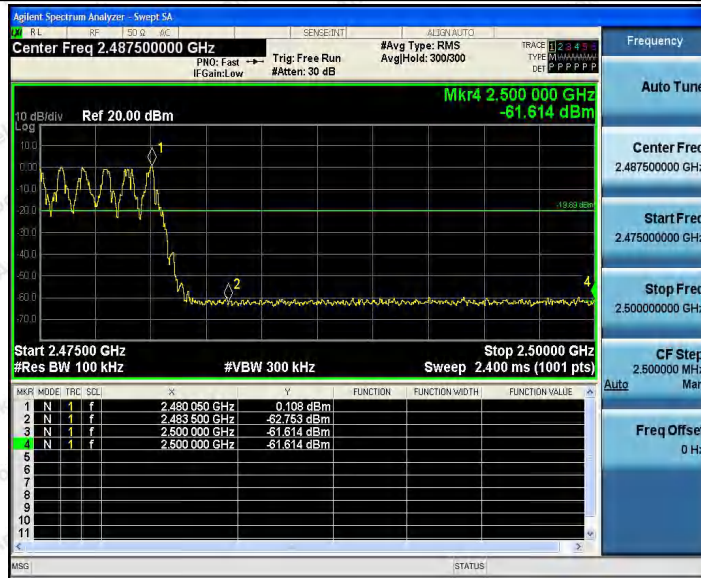
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.23	-59.21	≤-20.23	PASS
		High	2480	0.08	-59.69	≤-19.92	PASS
		Low	Hop	-0.90	-59.65	≤-20.9	PASS
		High	Hop	0.11	-61.61	≤-19.89	PASS
2DH5	Ant1	Low	2402	-1.82	-57.44	≤-21.82	PASS
		High	2480	-0.98	-58.25	≤-20.98	PASS
		Low	Hop	-1.55	-59.82	≤-21.55	PASS
		High	Hop	-1.24	-61.95	≤-21.24	PASS
3DH5	Ant1	Low	2402	-1.50	-57	≤-21.5	PASS
		High	2480	-2.35	-58.51	≤-22.35	PASS
		Low	Hop	-4.67	-59.17	≤-24.67	PASS
		High	Hop	-4.03	-62.66	≤-24.03	PASS

Test Graphs

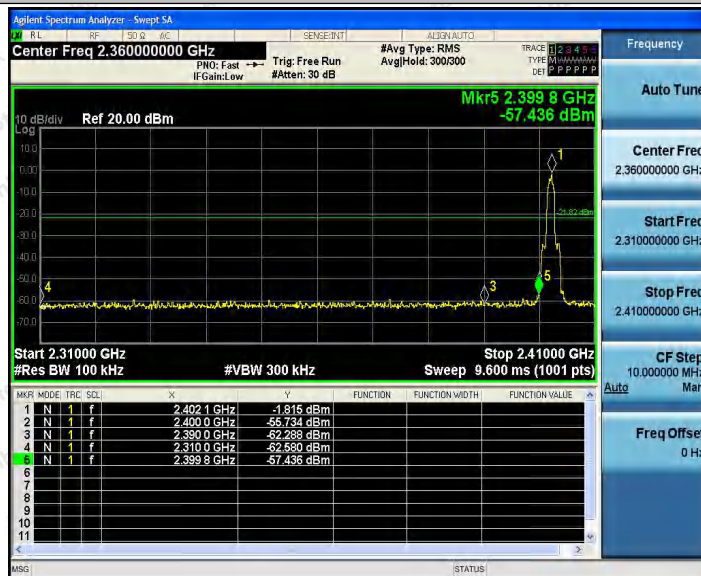

DH5_Ant1_High_2480
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

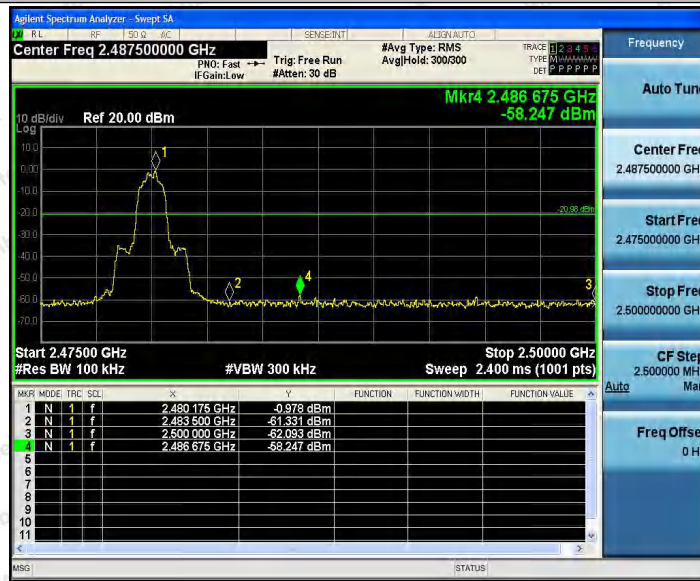


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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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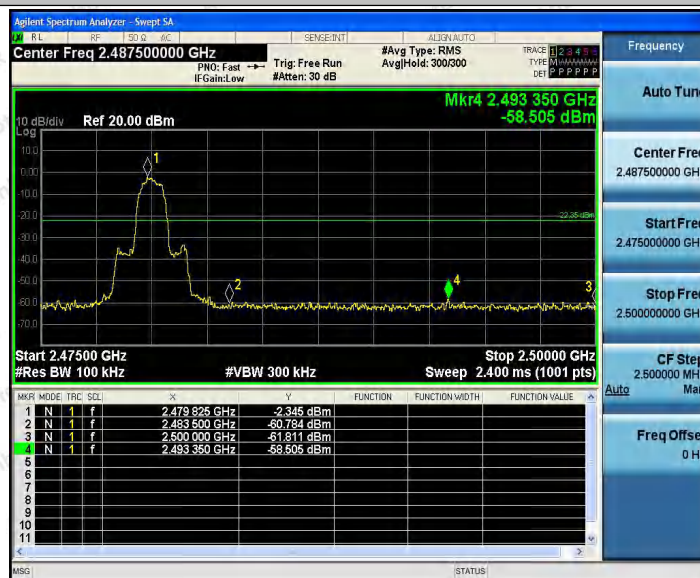
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

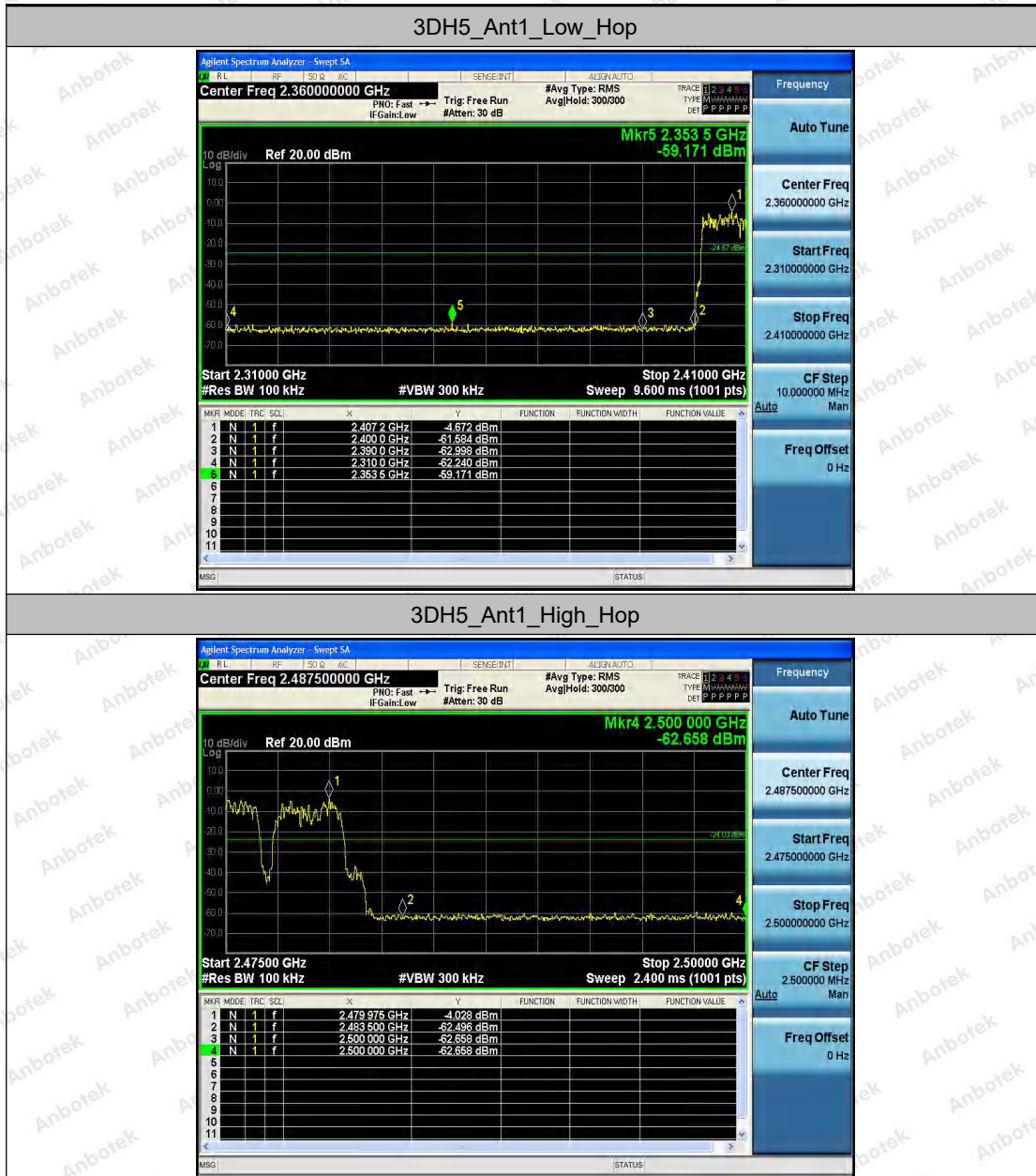


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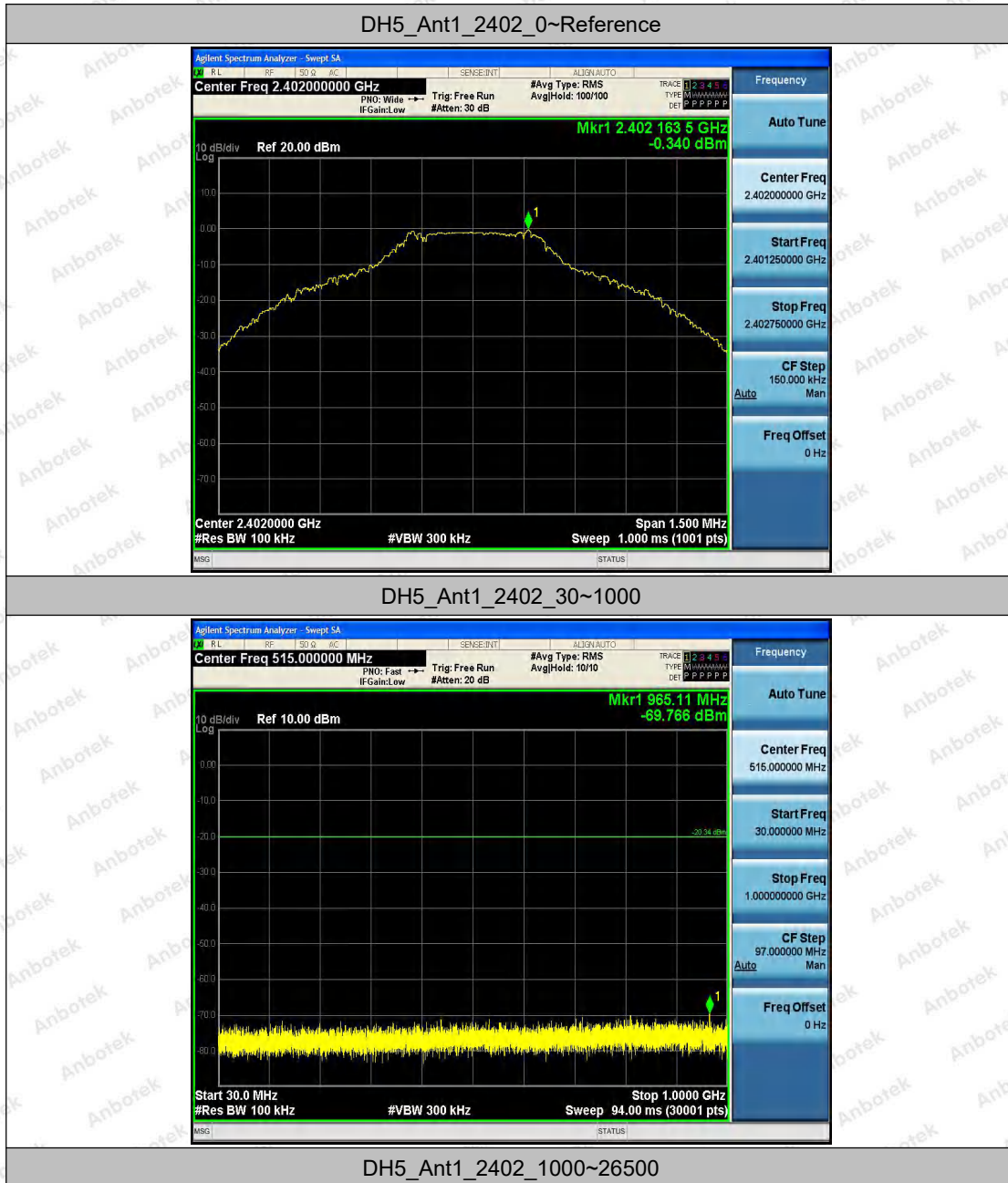
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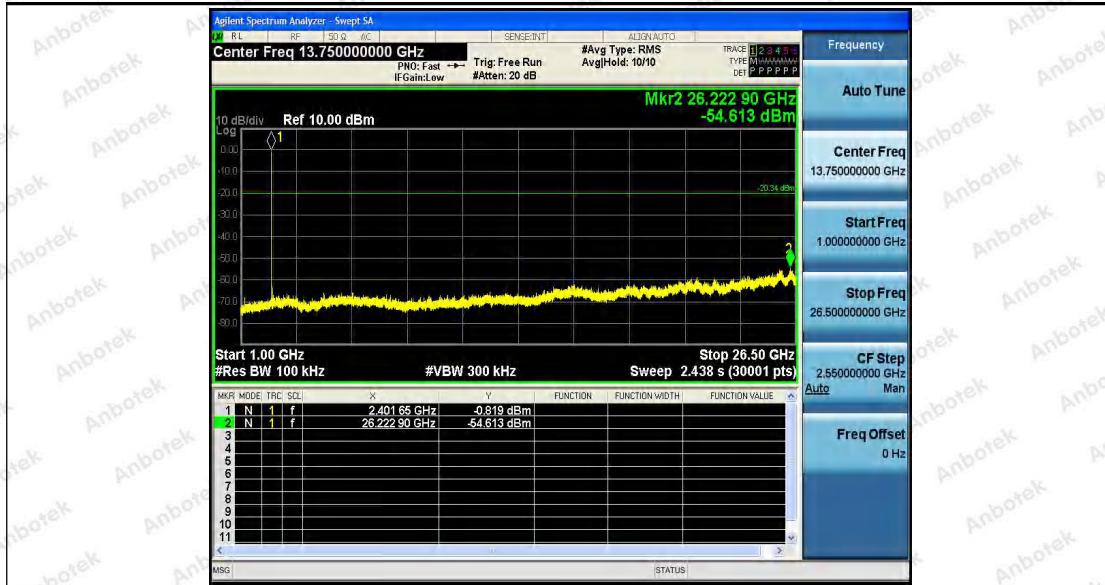
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-69.77	≤-20.34	PASS
			1000~26500	-0.34	-54.61	≤-20.34	PASS
		2441	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-70.37	≤-20.53	PASS
			1000~26500	-0.53	-54.87	≤-20.53	PASS
		2480	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-70.05	≤-19.71	PASS
			1000~26500	0.29	-53.66	≤-19.71	PASS
2DH5	Ant1	2402	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-69.88	≤-21.75	PASS
			1000~26500	-1.75	-55.33	≤-21.75	PASS
		2441	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-69.07	≤-21.91	PASS
			1000~26500	-1.91	-55.25	≤-21.91	PASS
		2480	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-69.97	≤-21.09	PASS
			1000~26500	-1.09	-54.59	≤-21.09	PASS
3DH5	Ant1	2402	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-70.22	≤-21.96	PASS
			1000~26500	-1.96	-54.81	≤-21.96	PASS
		2441	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-69.71	≤-21.79	PASS
			1000~26500	-1.79	-53.91	≤-21.79	PASS
		2480	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-70.27	≤-21.15	PASS
			1000~26500	-1.15	-54.06	≤-21.15	PASS

Test Graphs

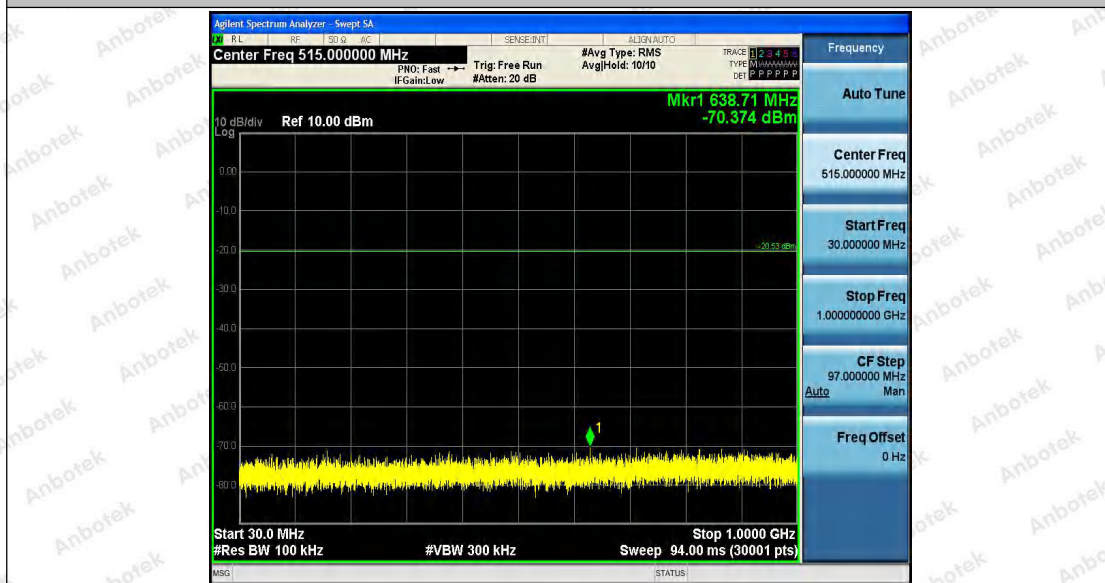




DH5_Ant1_2441_0~Reference



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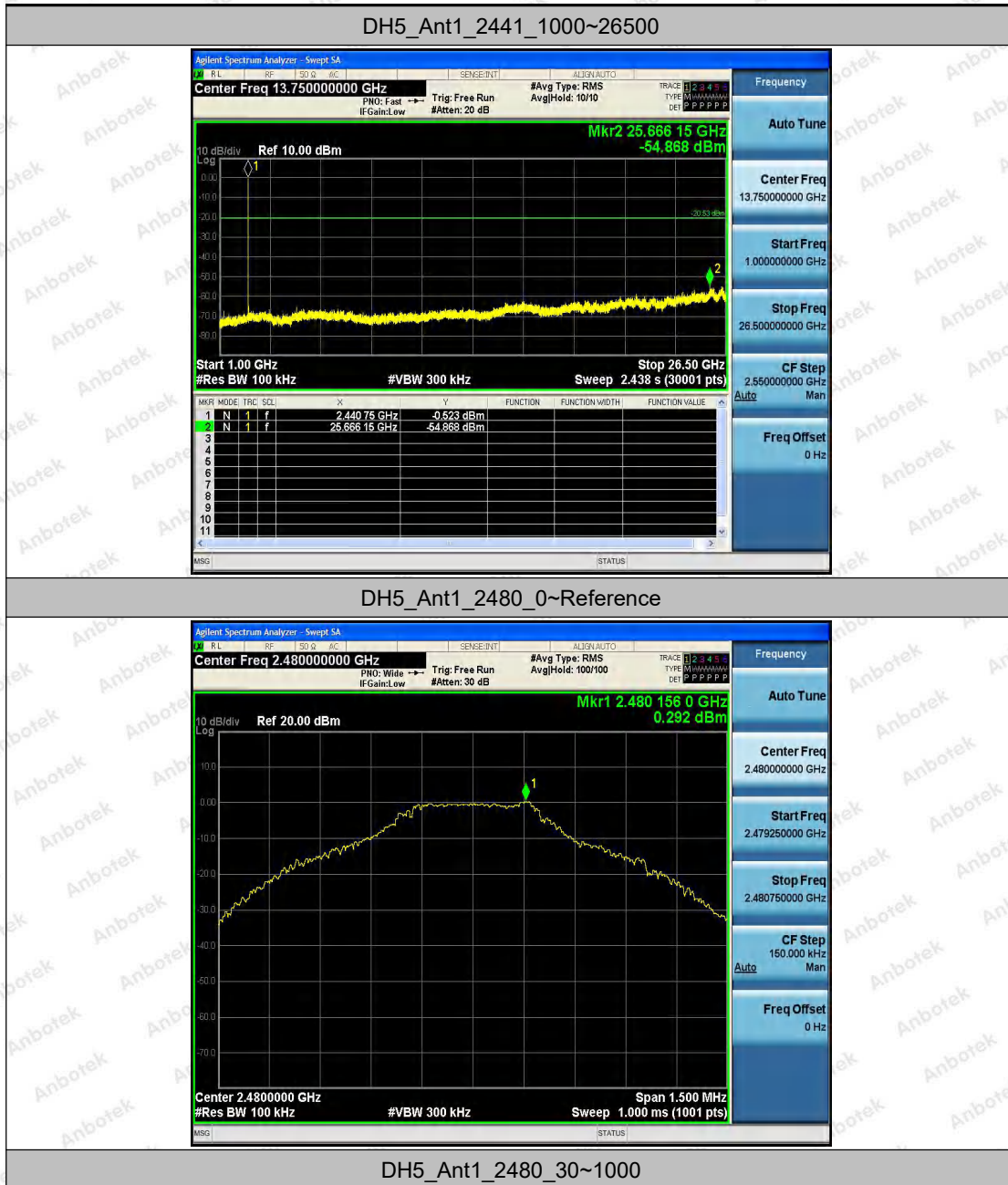


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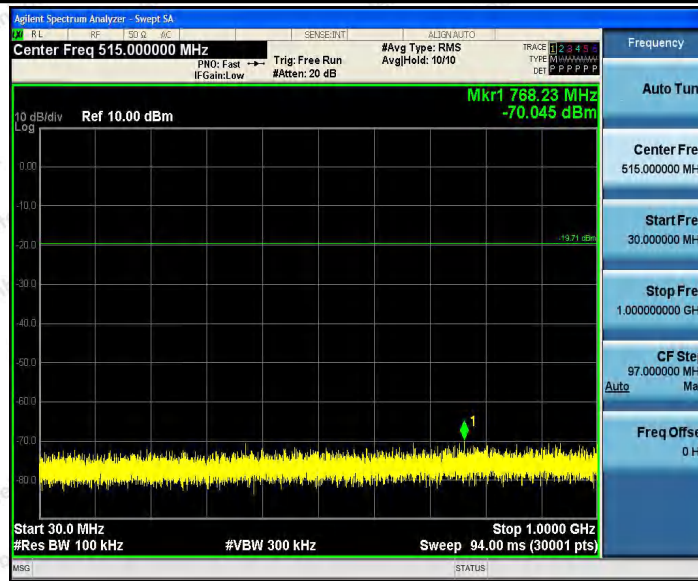


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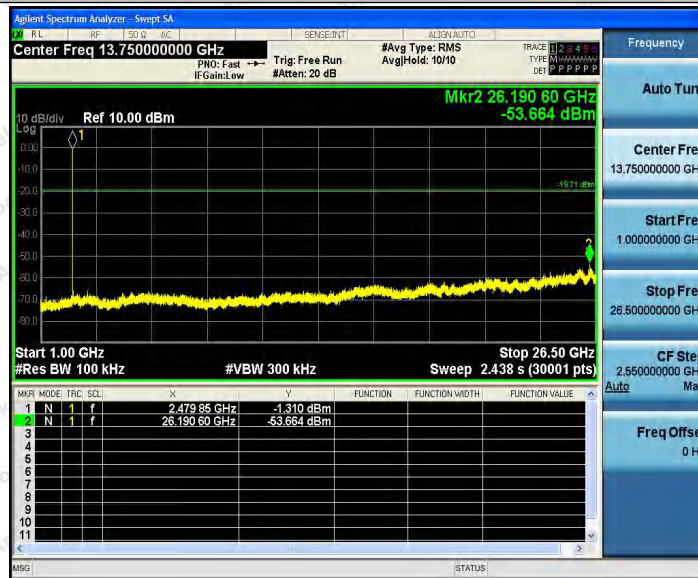
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

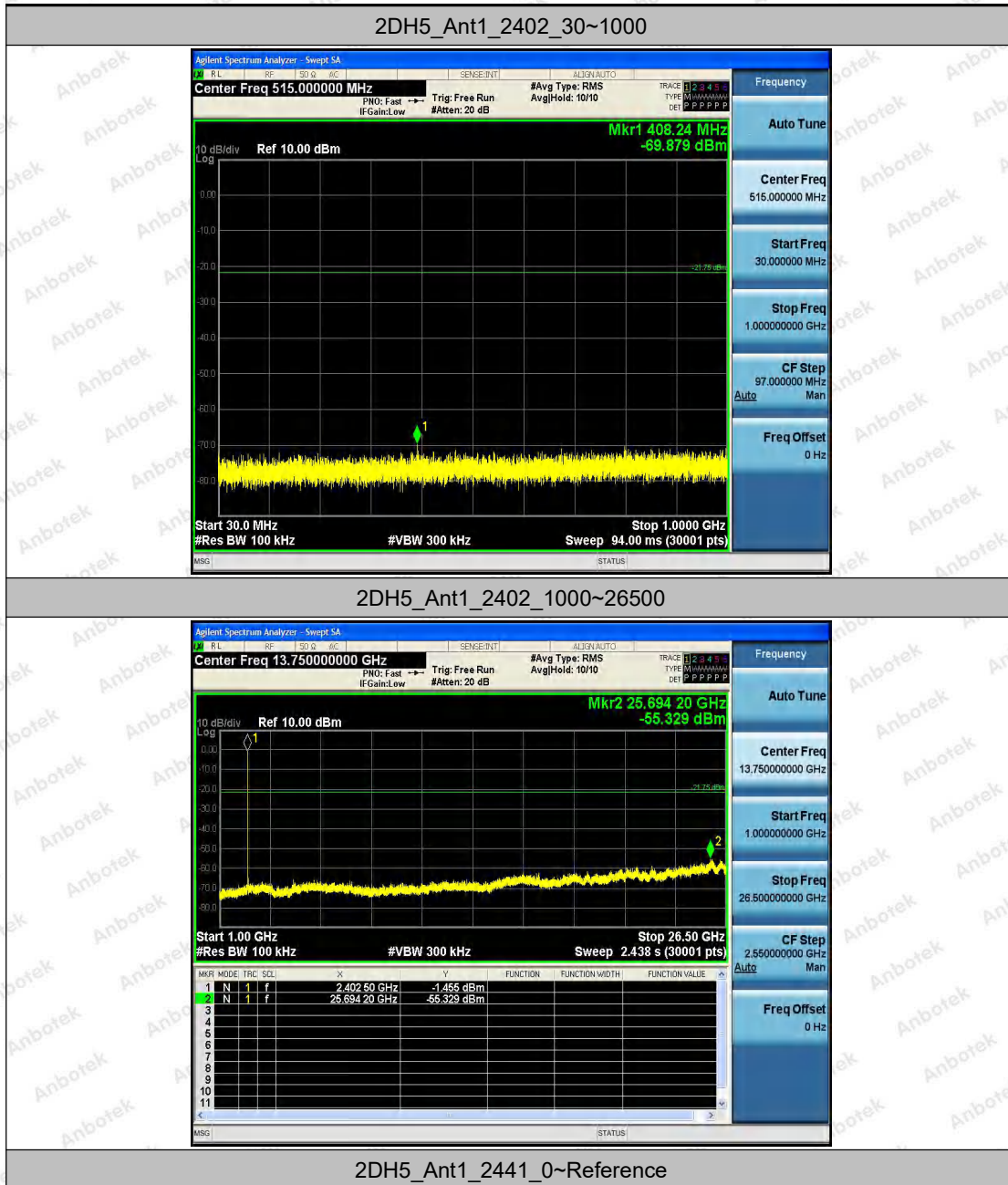


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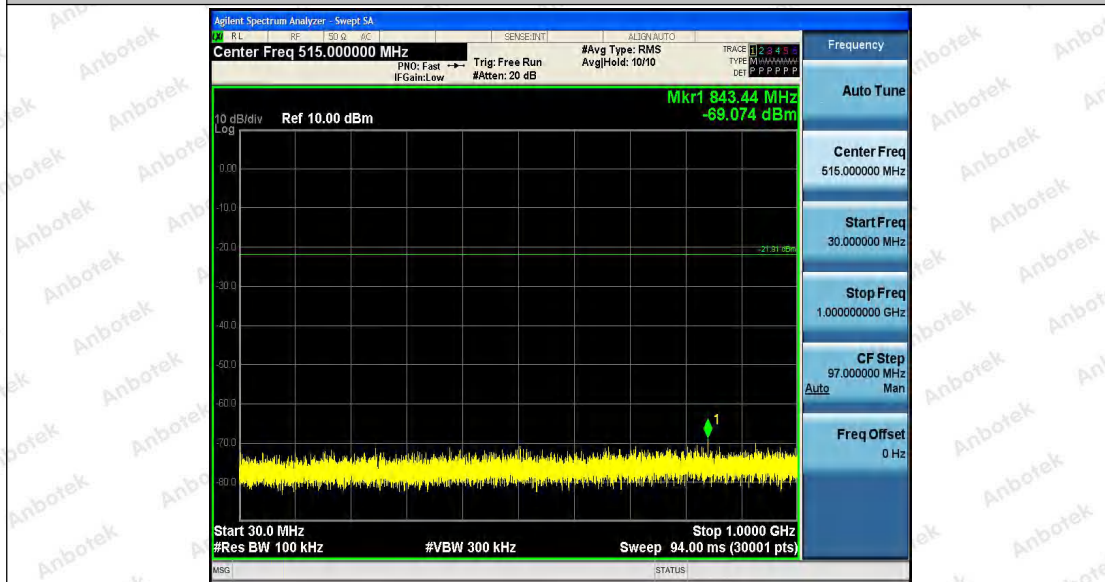
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

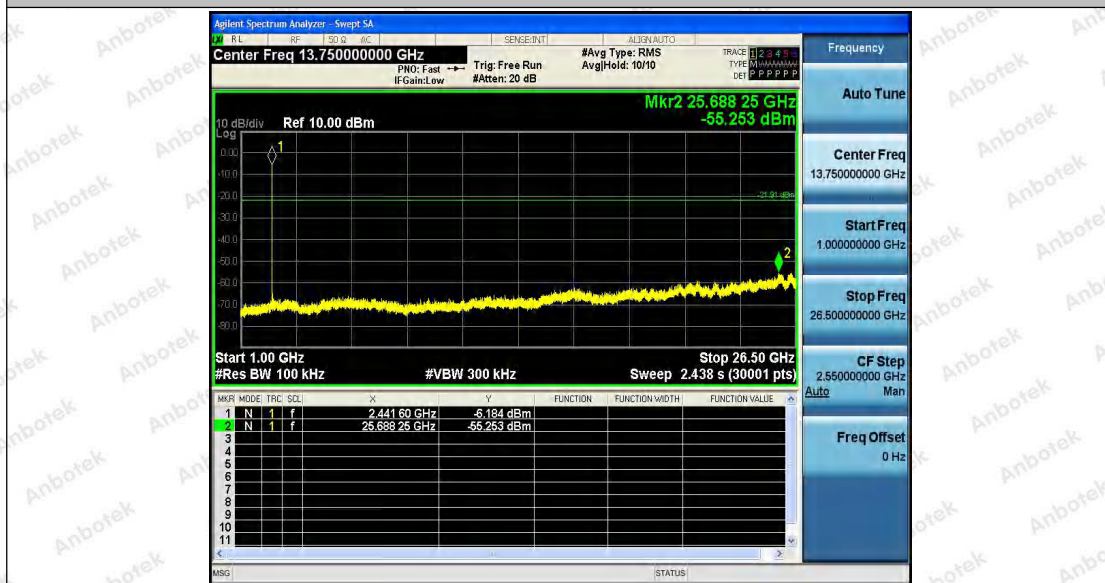
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

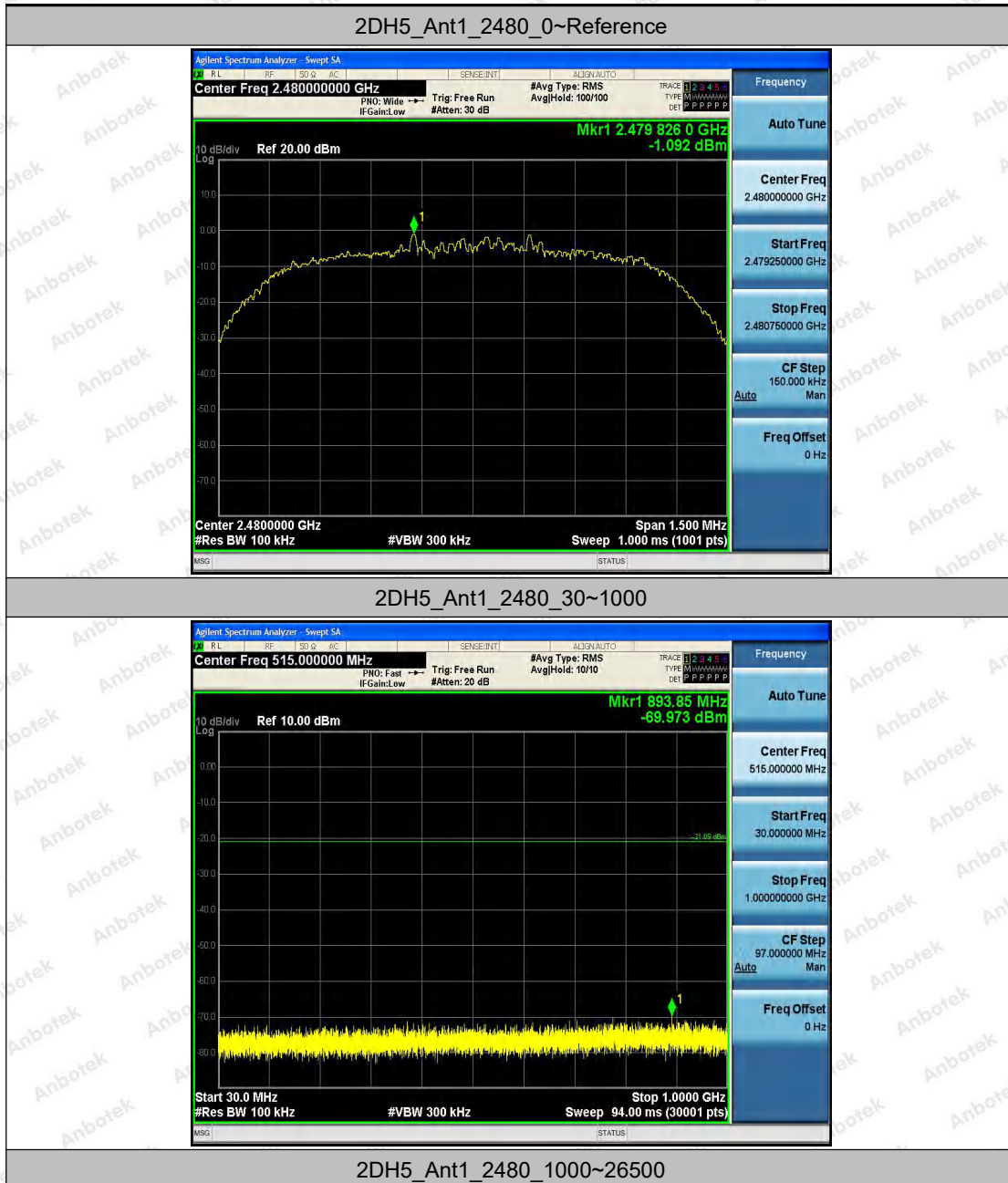


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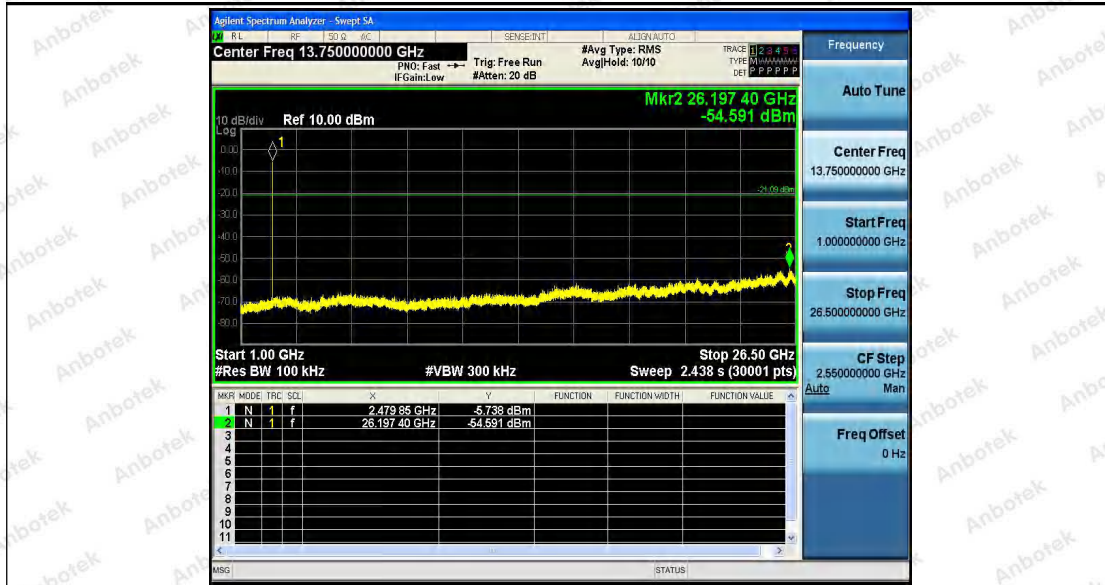


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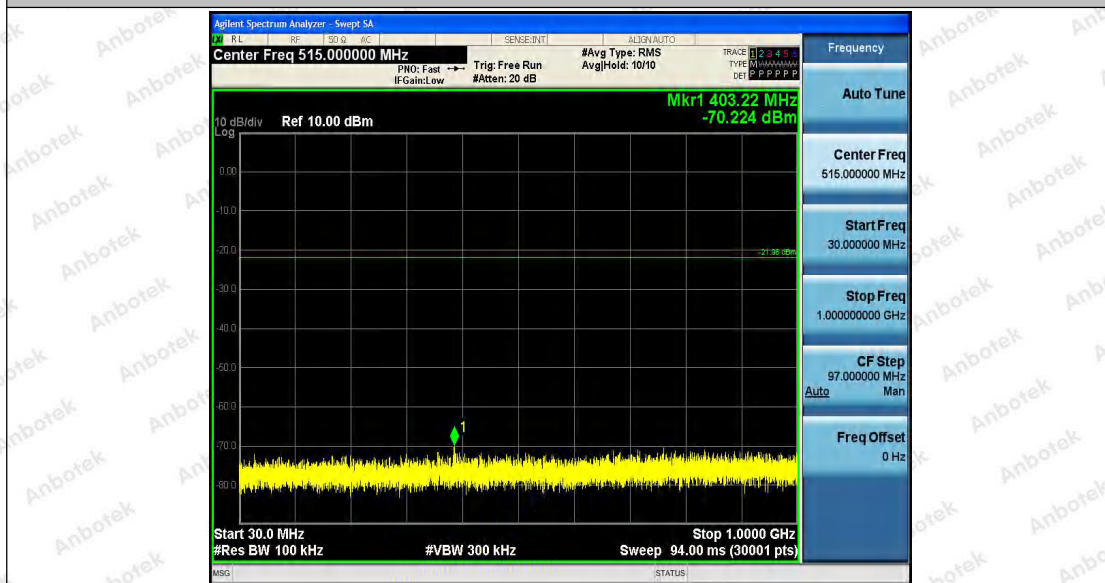
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

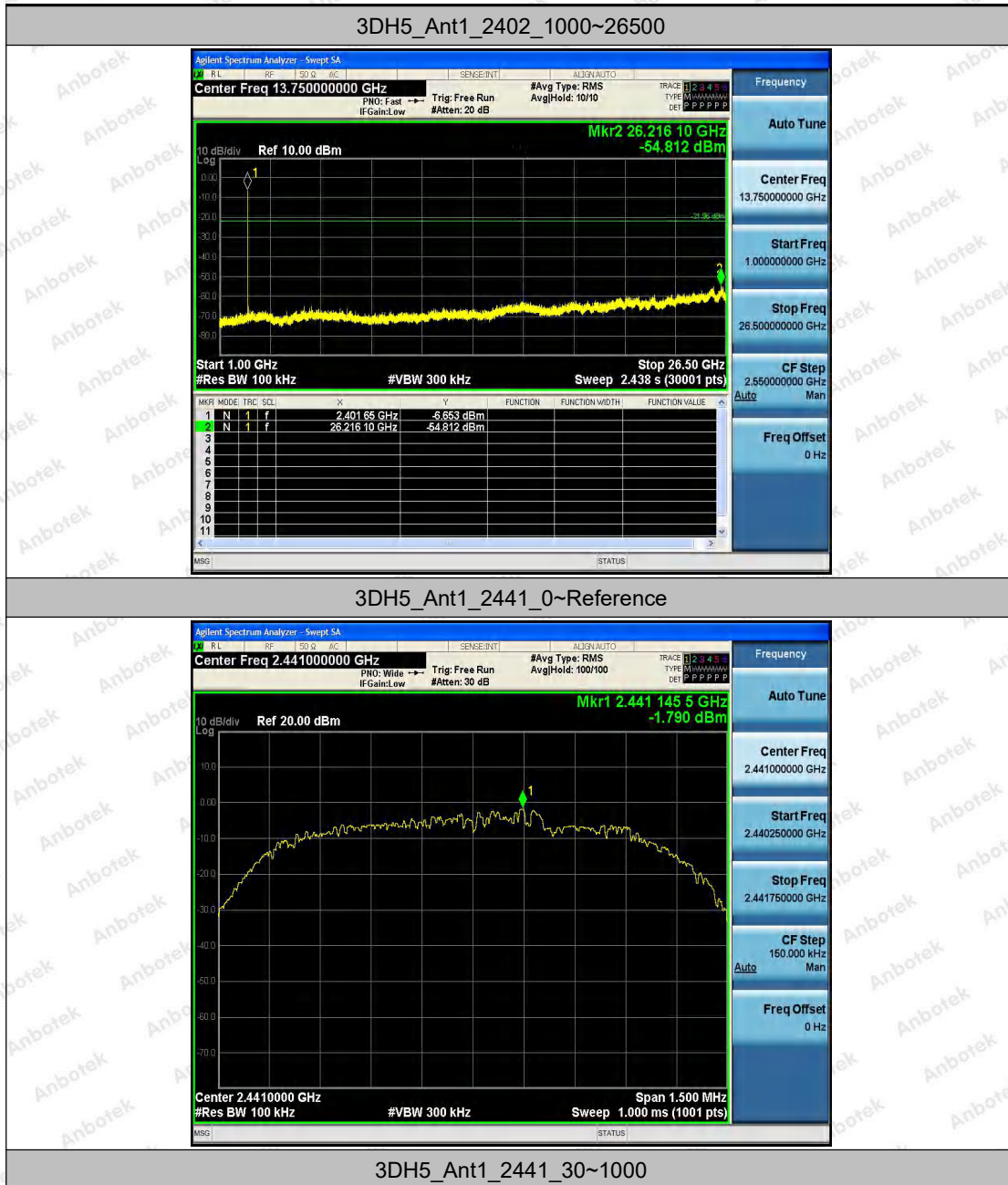


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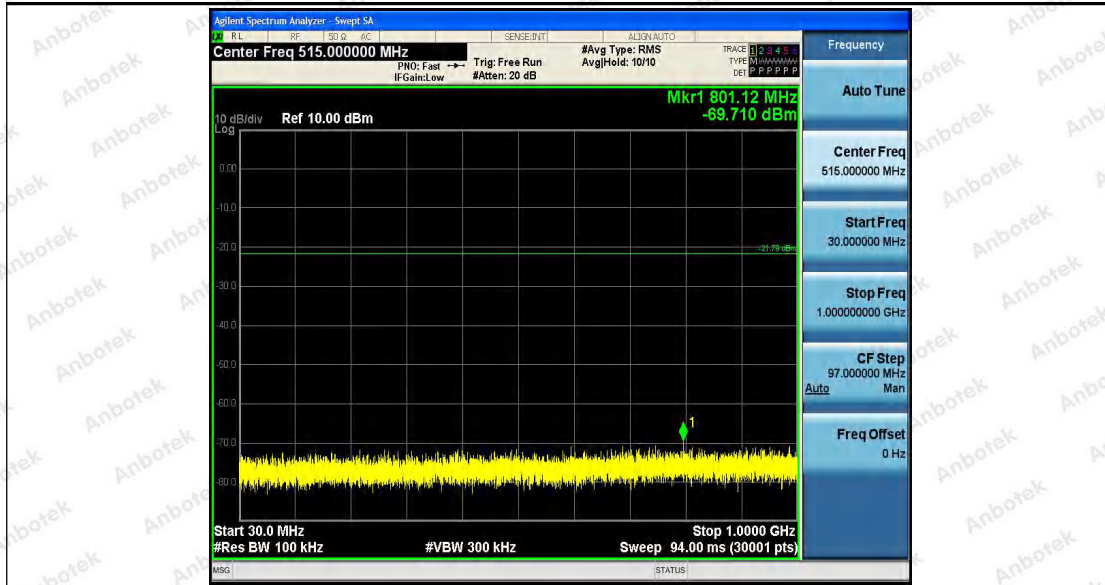


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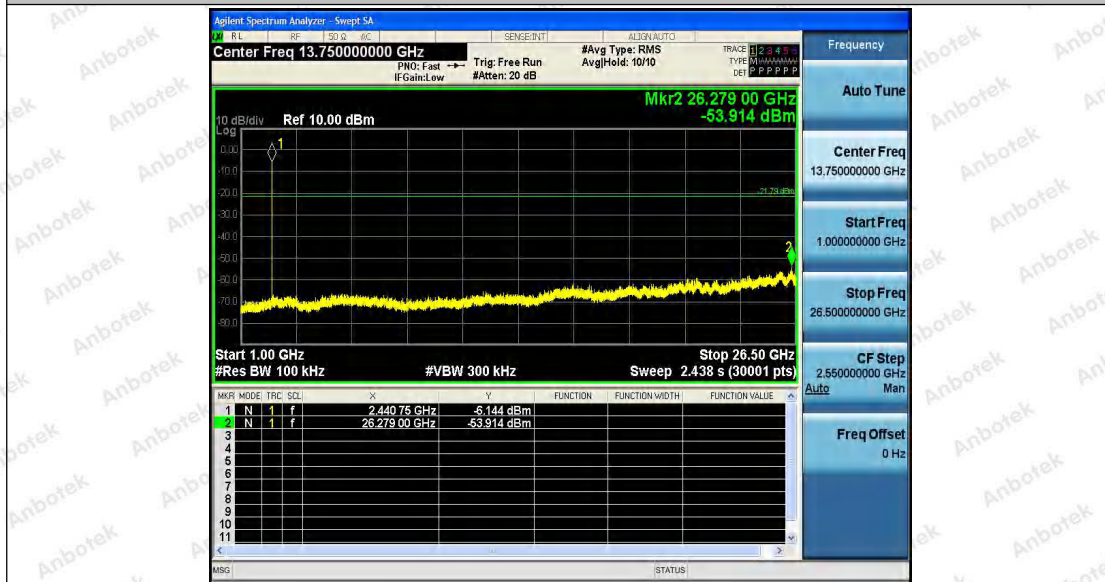
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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3DH5_Ant1_2441_1000~26500



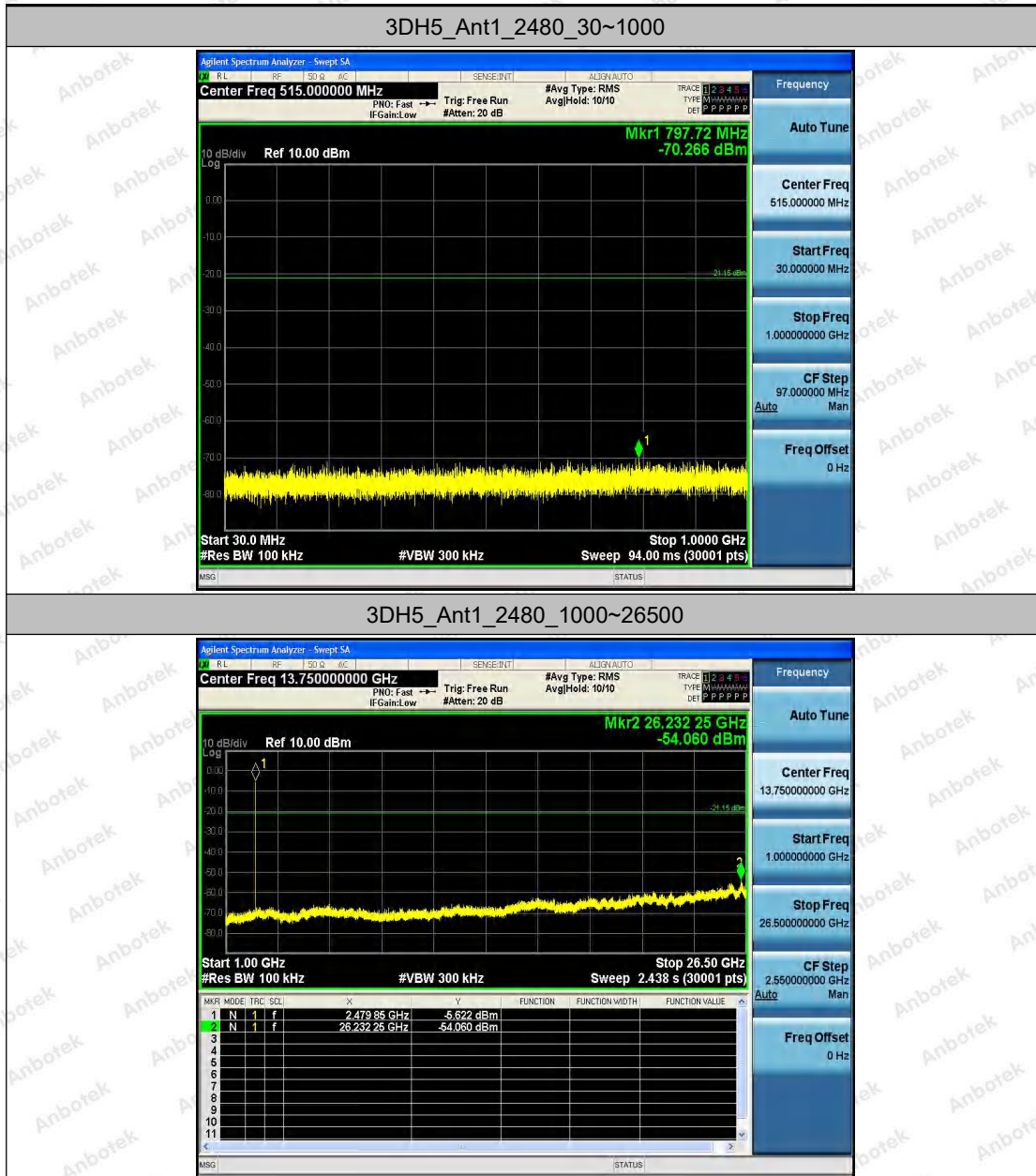
3DH5_Ant1_2480_0~Reference



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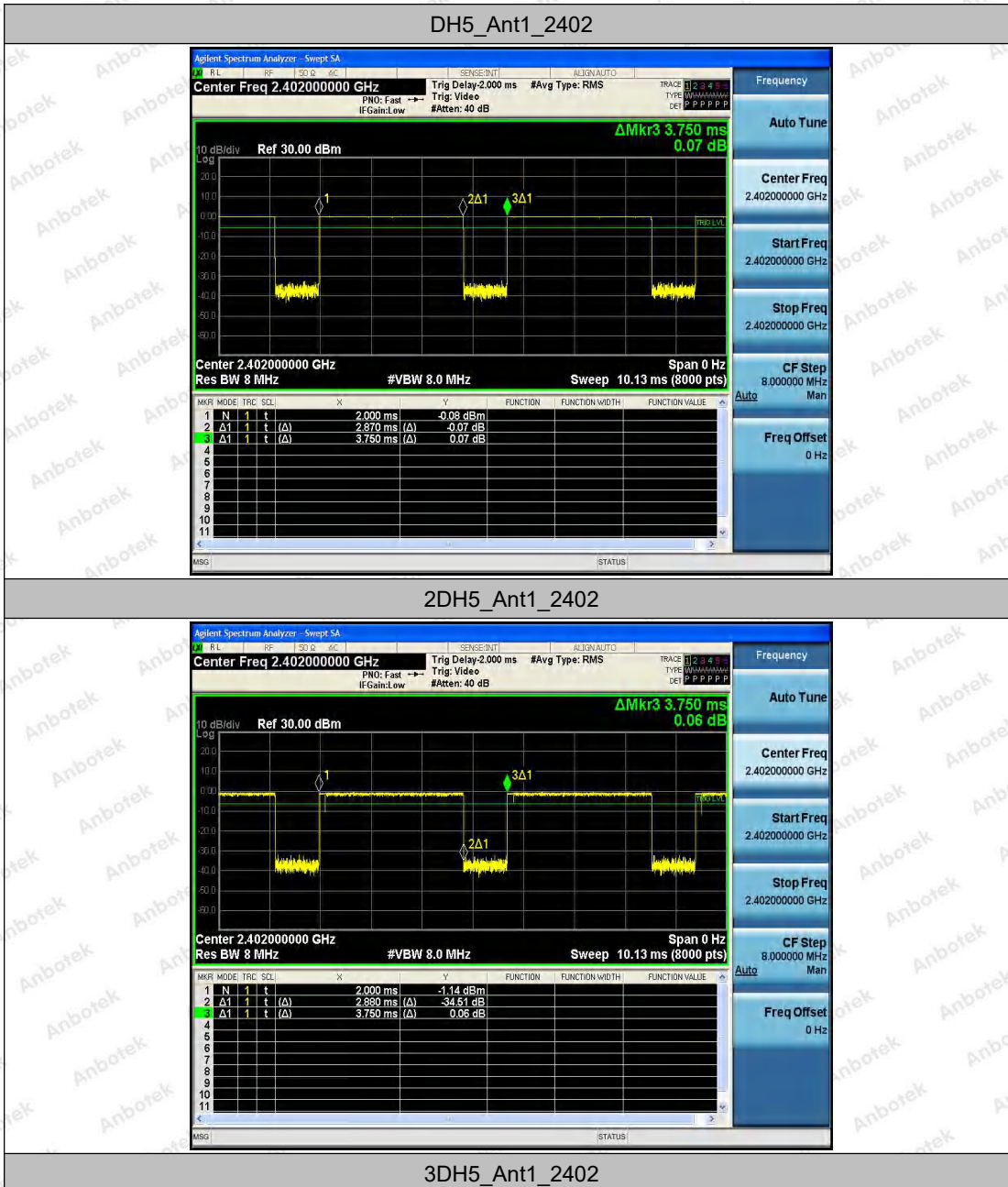
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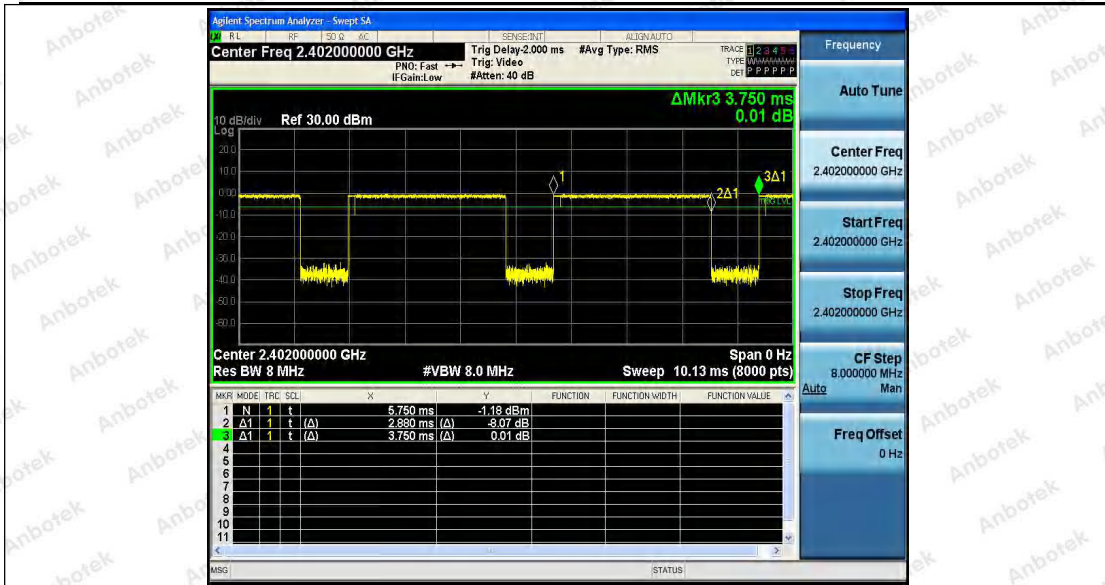
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---