

Appendix Test Data

Report No.:	18220WC10229201	Test Date:	2021.10.20
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.777	2401.583	2402.360	---	PASS
		2441	0.855	2440.508	2441.363	---	PASS
		2480	0.846	2479.505	2480.351	---	PASS
2DH5	Ant1	2402	1.293	2401.313	2402.606	---	PASS
		2441	1.293	2440.313	2441.606	---	PASS
		2480	1.296	2479.310	2480.606	---	PASS
3DH5	Ant1	2402	1.284	2401.316	2402.600	---	PASS
		2441	1.281	2440.319	2441.600	---	PASS
		2480	1.281	2479.319	2480.600	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.74743	2401.582	2402.329	---	PASS
		2441	0.75473	2440.550	2441.305	---	PASS
		2480	0.69669	2479.590	2480.287	---	PASS
2DH5	Ant1	2402	1.2333	2401.343	2402.576	---	PASS
		2441	1.2371	2440.341	2441.578	---	PASS
		2480	1.2393	2479.340	2480.579	---	PASS
3DH5	Ant1	2402	1.1687	2401.373	2402.542	---	PASS
		2441	1.1707	2440.371	2441.542	---	PASS
		2480	1.1880	2479.359	2480.547	---	PASS

Test Graphs

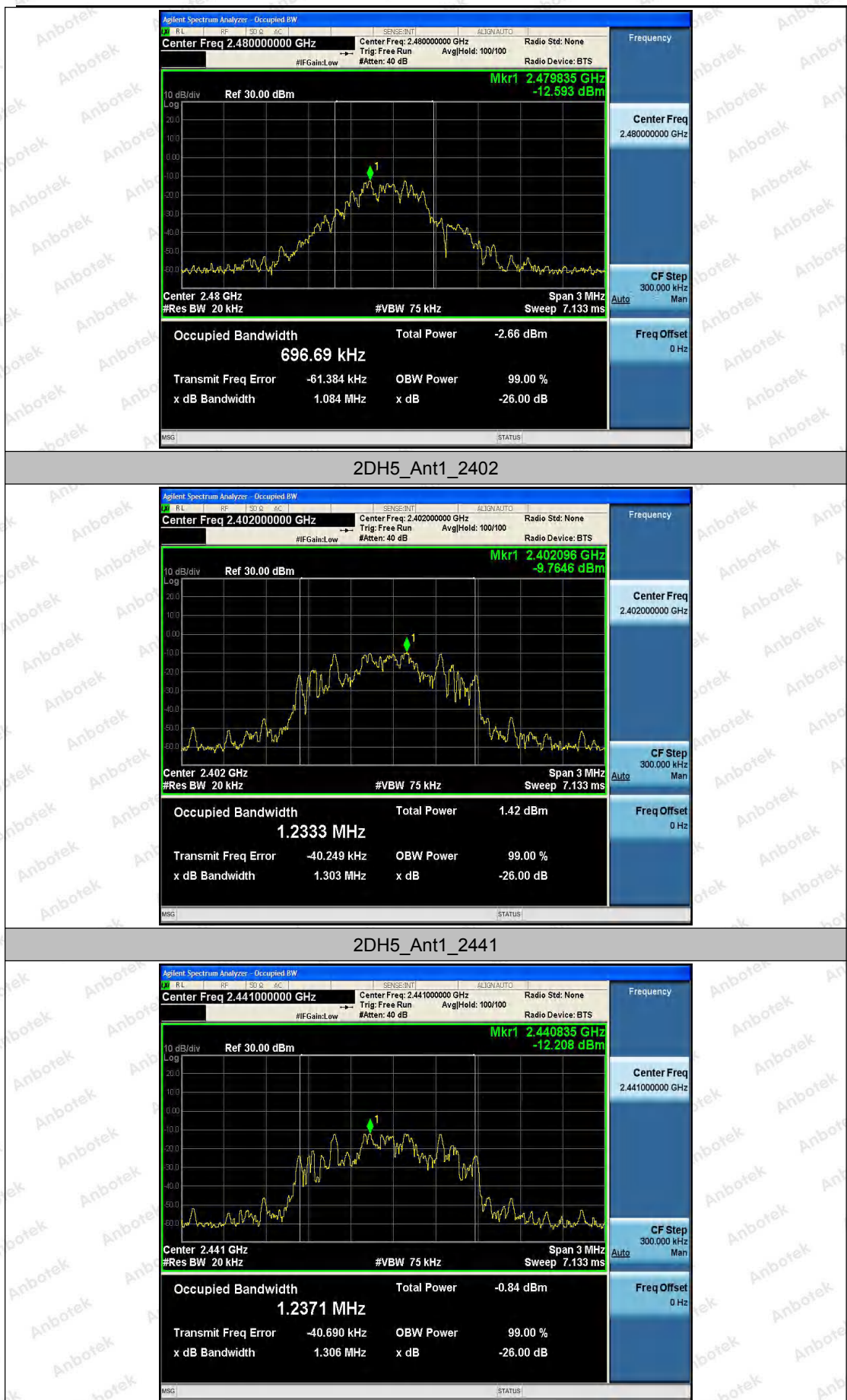


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

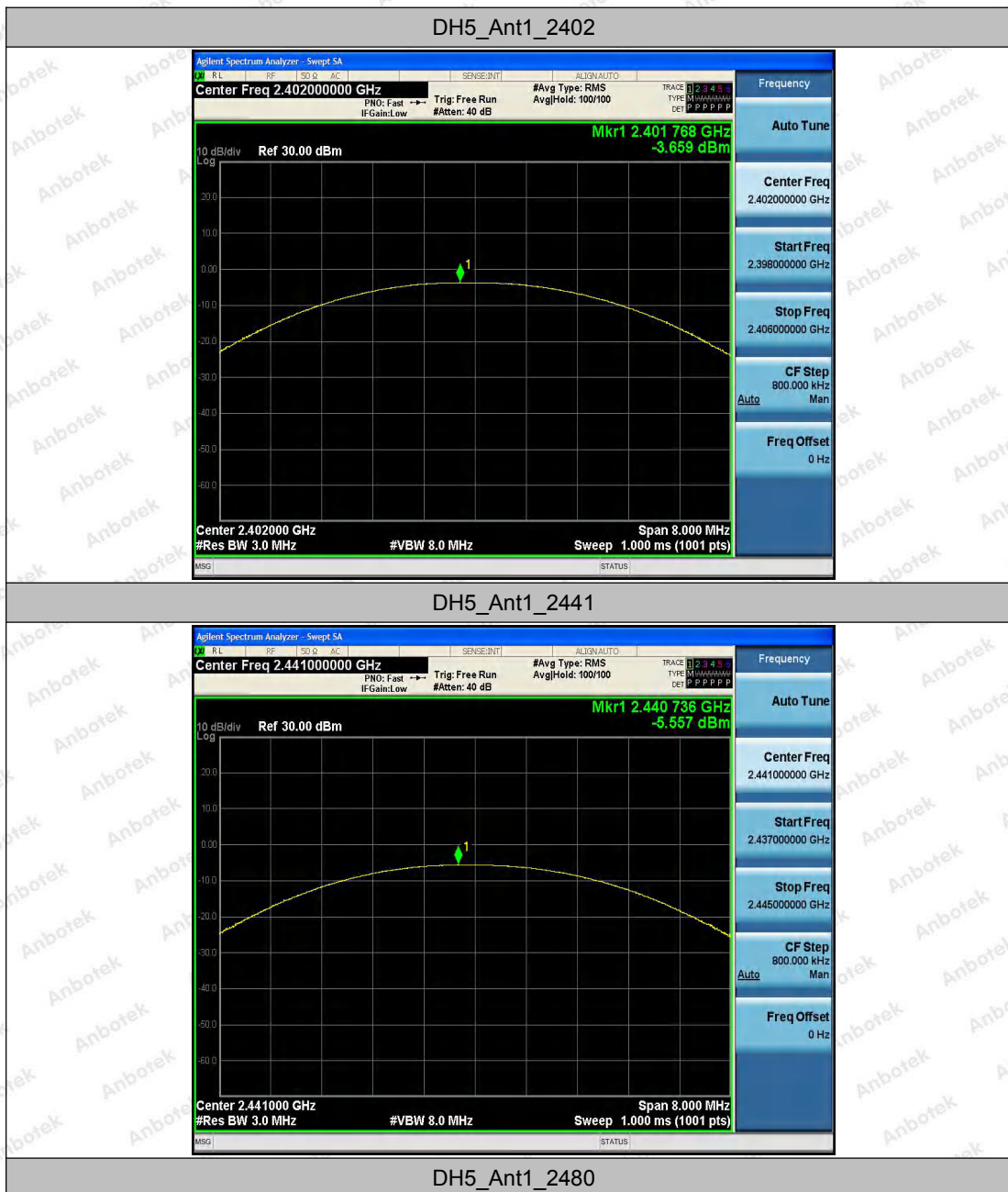


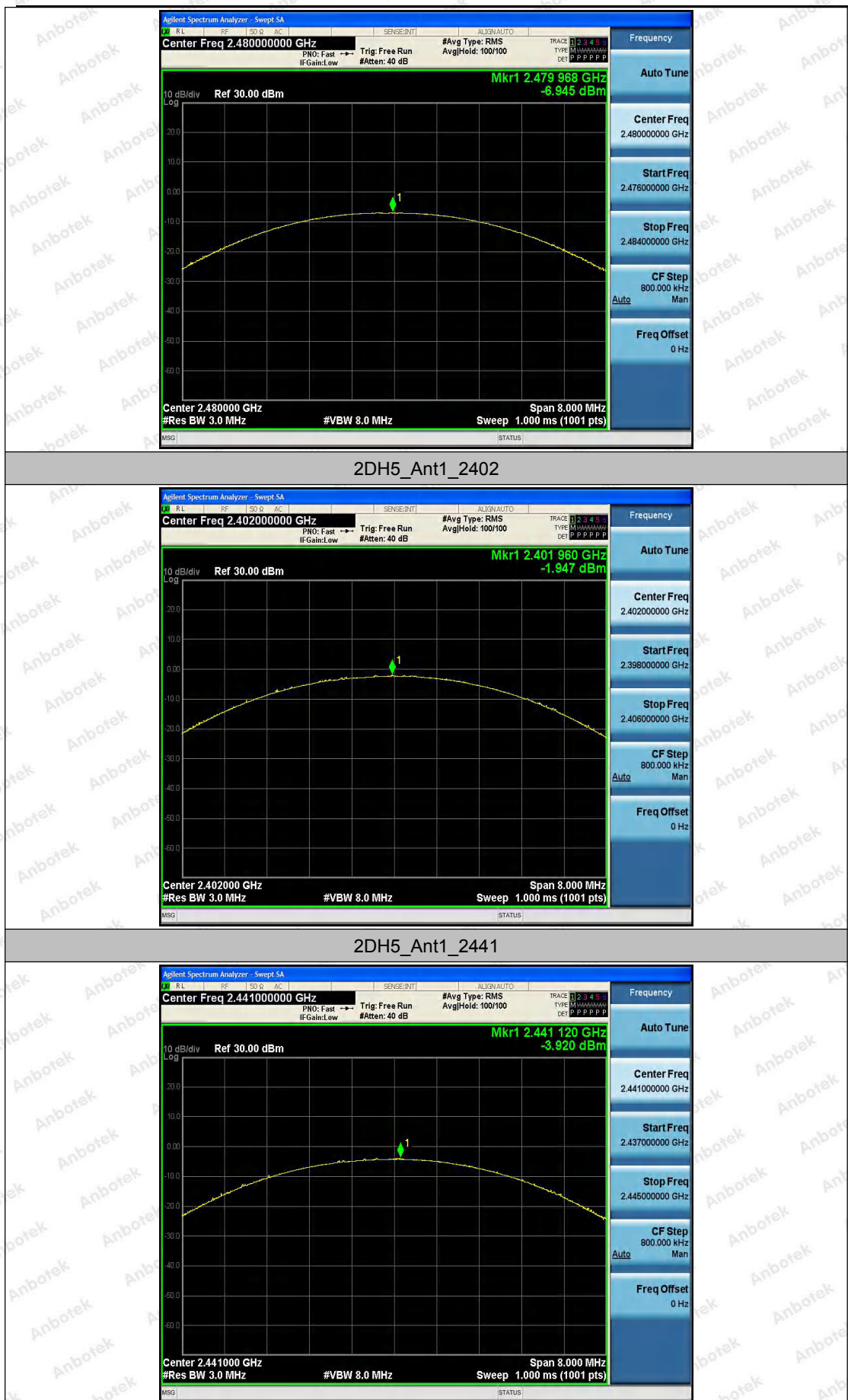
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.66	≤20.97	PASS
		2441	-5.56	≤20.97	PASS
		2480	-6.95	≤20.97	PASS
2DH5	Ant1	2402	-1.95	≤20.97	PASS
		2441	-3.92	≤20.97	PASS
		2480	-5.38	≤20.97	PASS
3DH5	Ant1	2402	-1.31	≤20.97	PASS
		2441	-3.31	≤20.97	PASS
		2480	-4.64	≤20.97	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



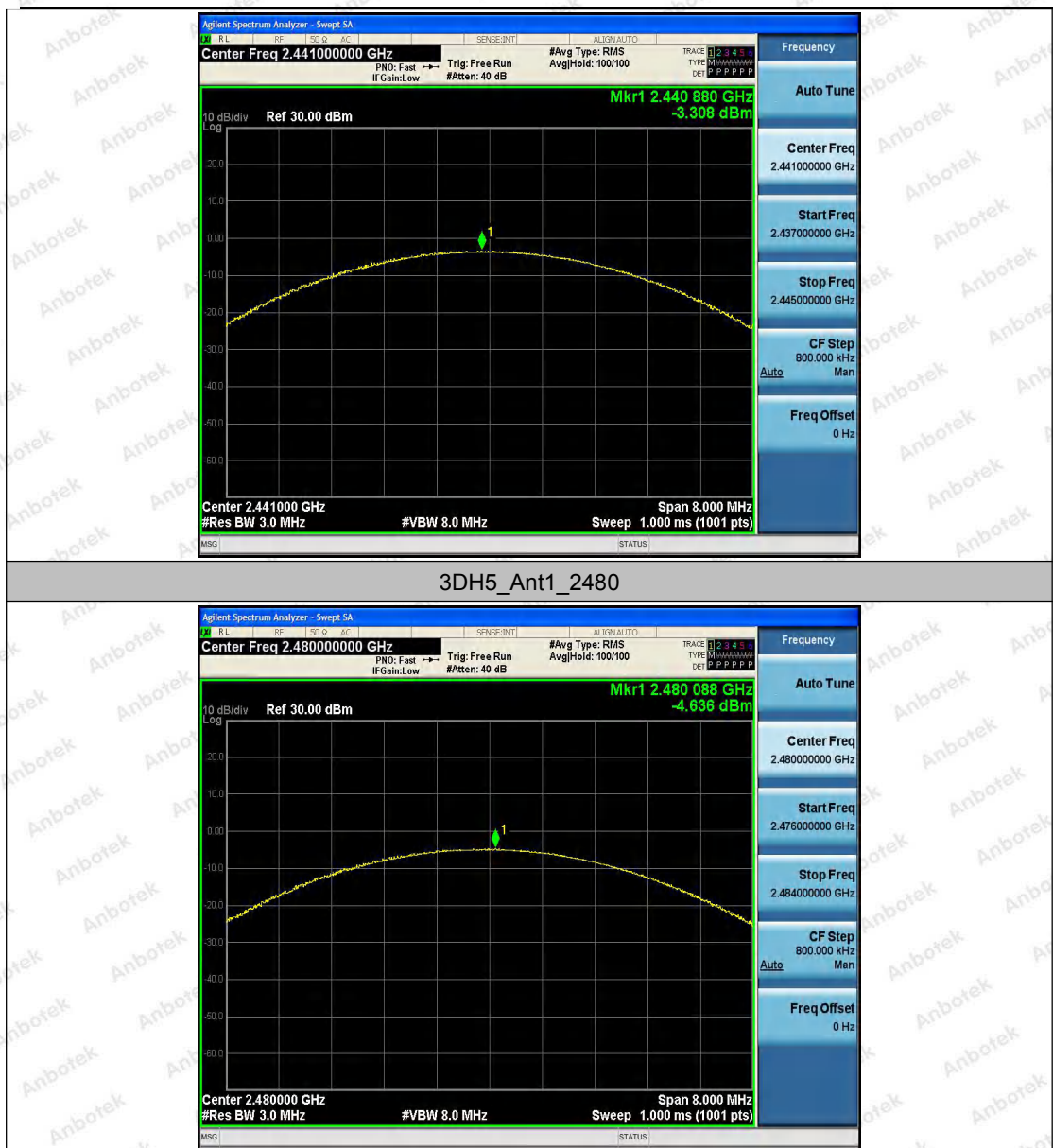
3DH5_Ant1_2441

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.178	≥ 0.855	PASS
2DH5	Ant1	Hop	1.004	≥ 0.864	PASS
3DH5	Ant1	Hop	1.012	≥ 0.856	PASS

Test Graphs

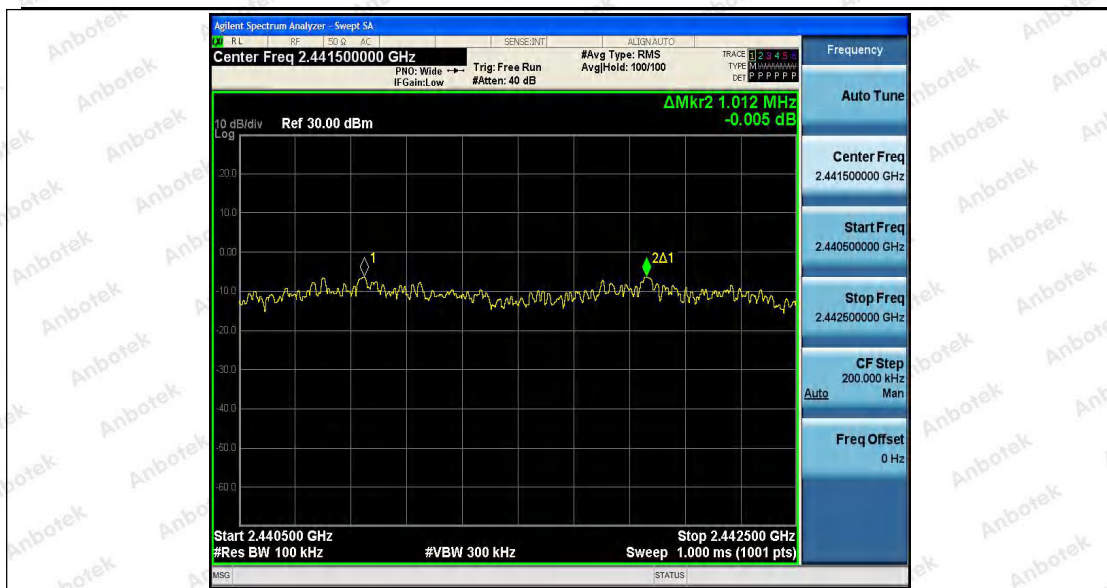


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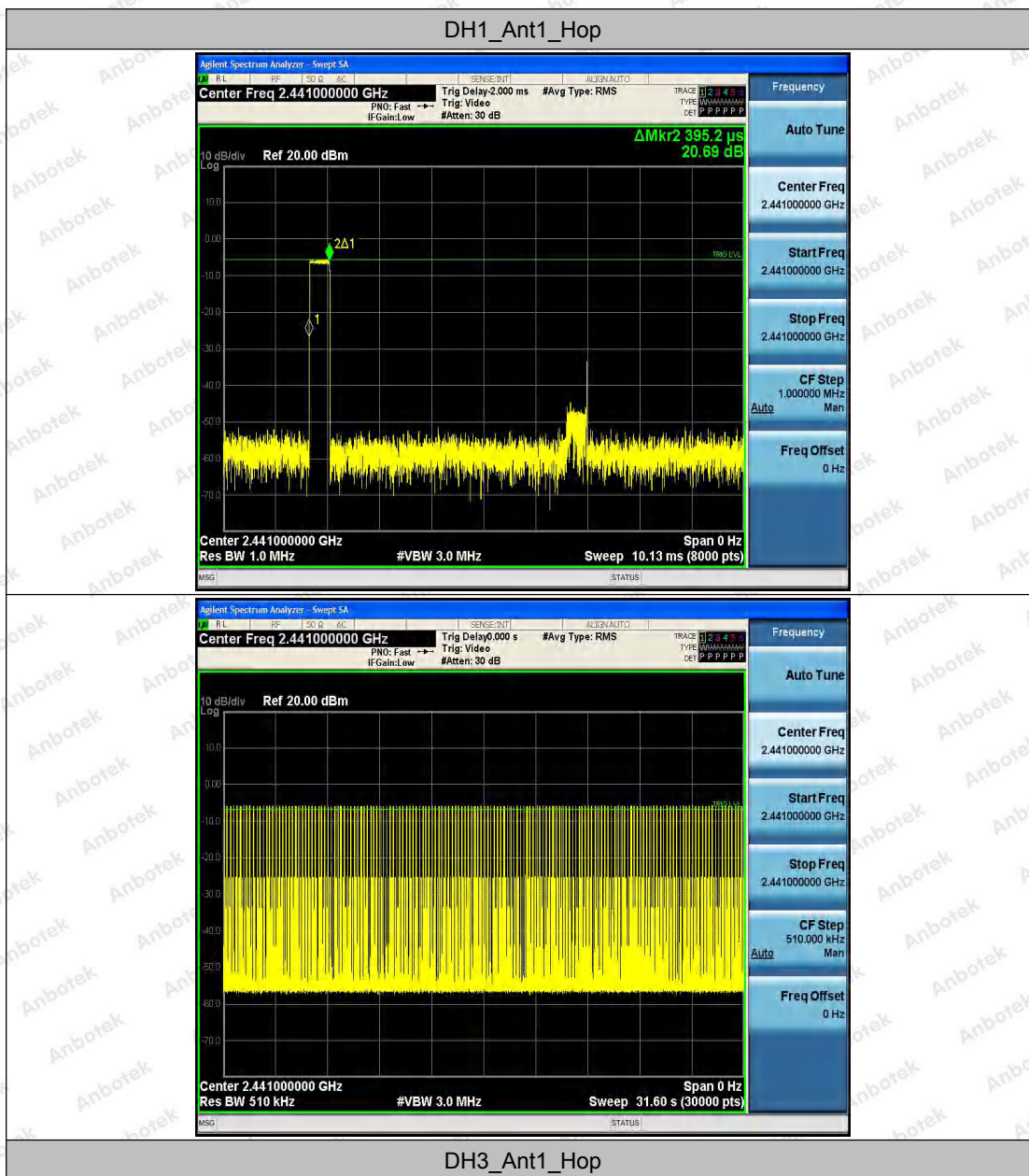
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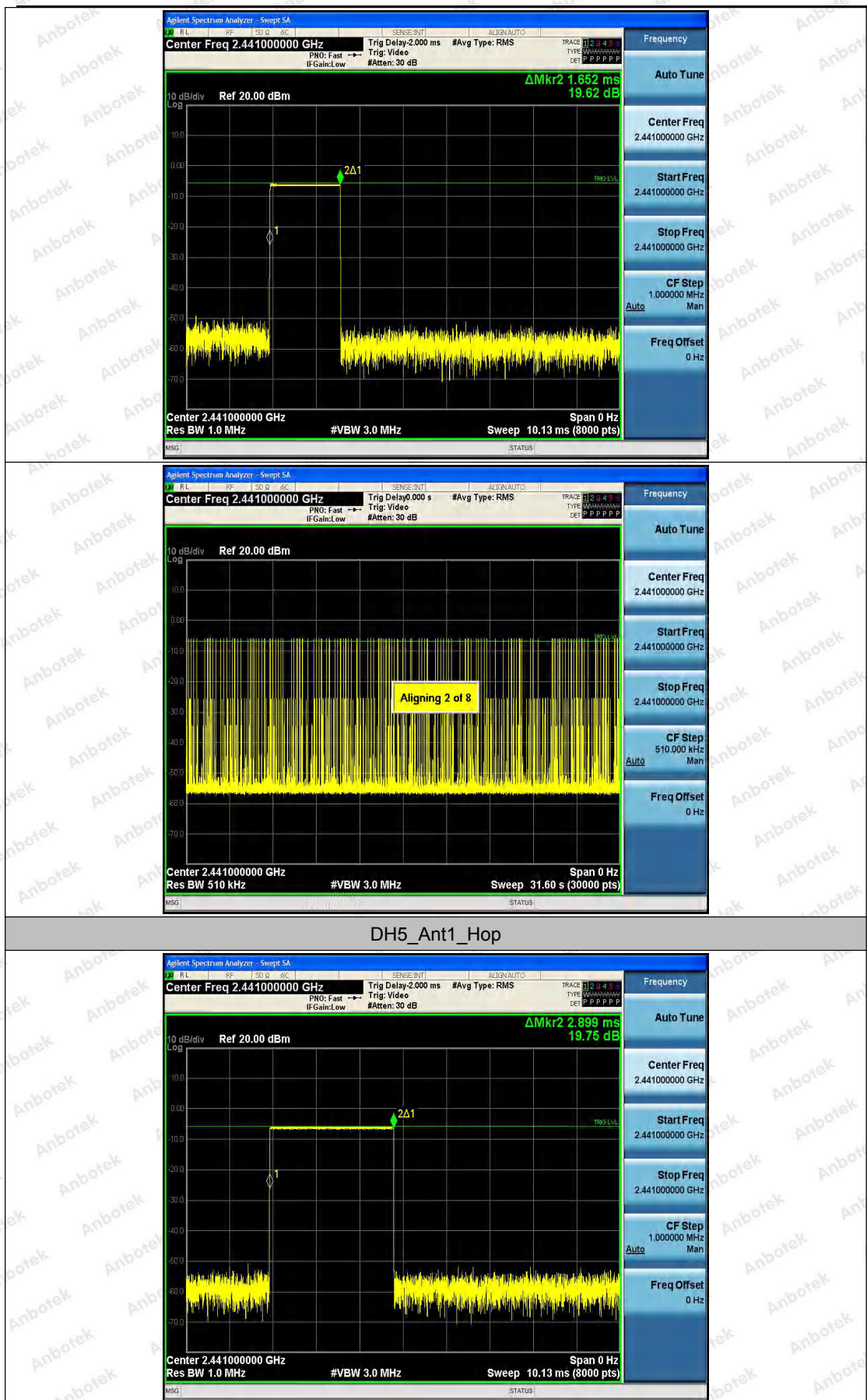
Appendix E: Time of occupancy

Test Result

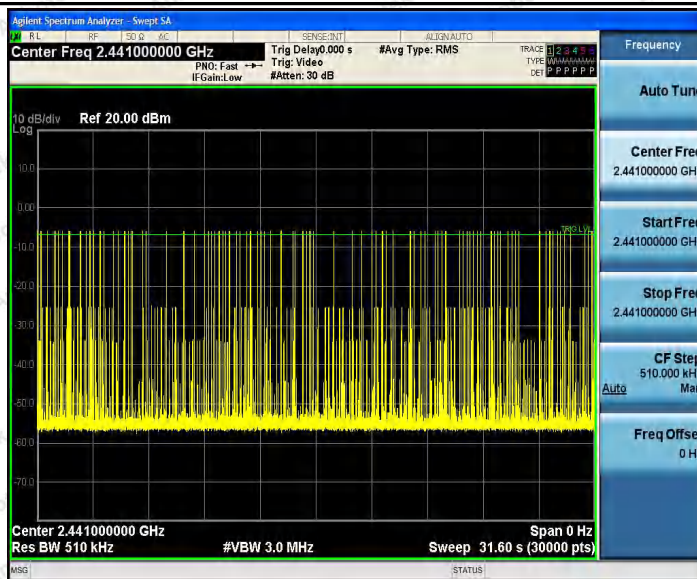
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	316	0.125	≤0.4	PASS
DH3	Ant1	Hop	1.65	156	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.90	107	0.31	≤0.4	PASS
2DH1	Ant1	Hop	0.41	318	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.66	153	0.253	≤0.4	PASS
2DH5	Ant1	Hop	2.90	101	0.293	≤0.4	PASS
3DH1	Ant1	Hop	0.41	318	0.13	≤0.4	PASS
3DH3	Ant1	Hop	1.66	164	0.272	≤0.4	PASS
3DH5	Ant1	Hop	2.90	107	0.311	≤0.4	PASS

Test Graphs

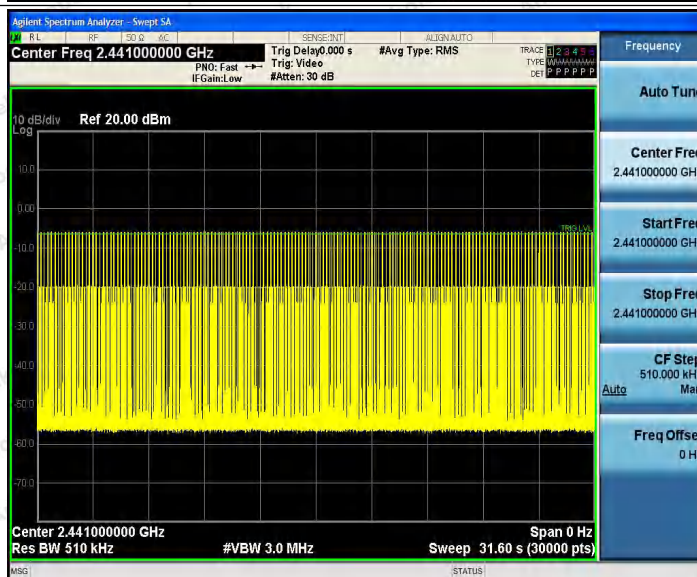
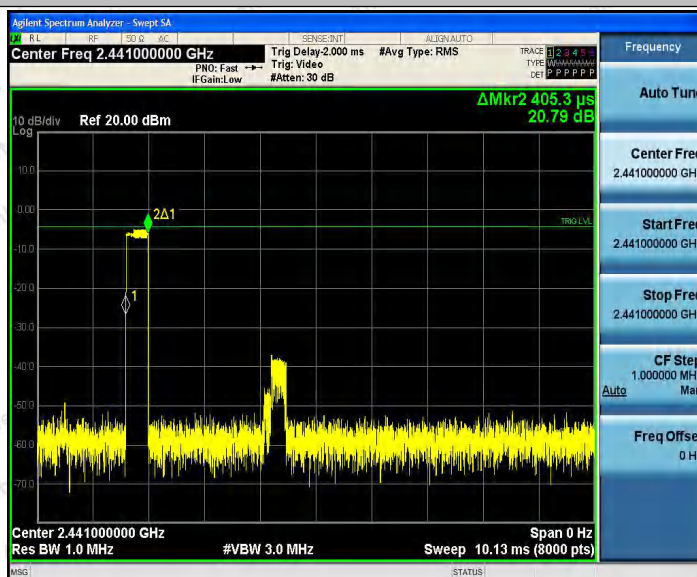




DH5_Ant1_Hop



2DH1_Ant1_Hop



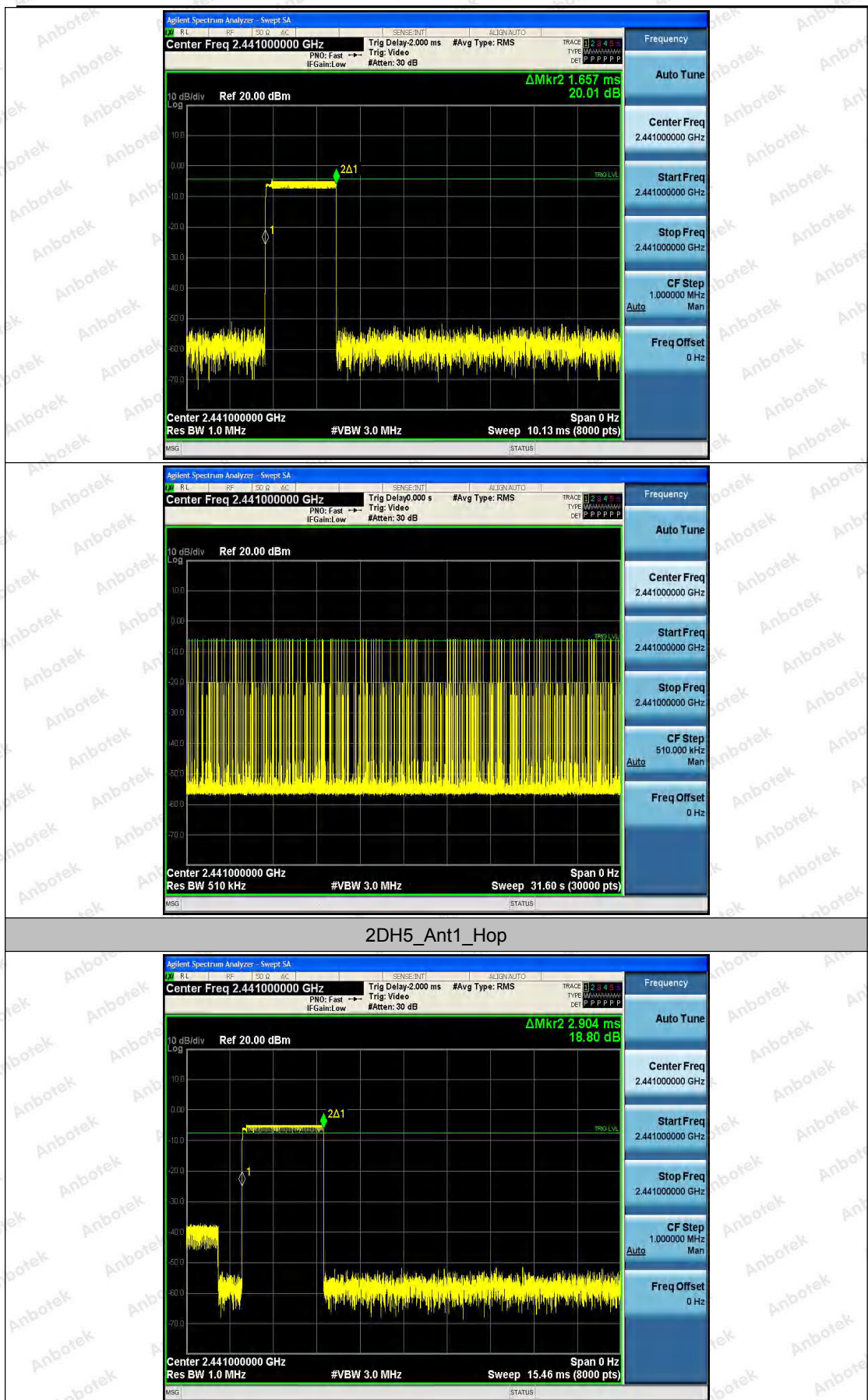
2DH3_Ant1_Hop

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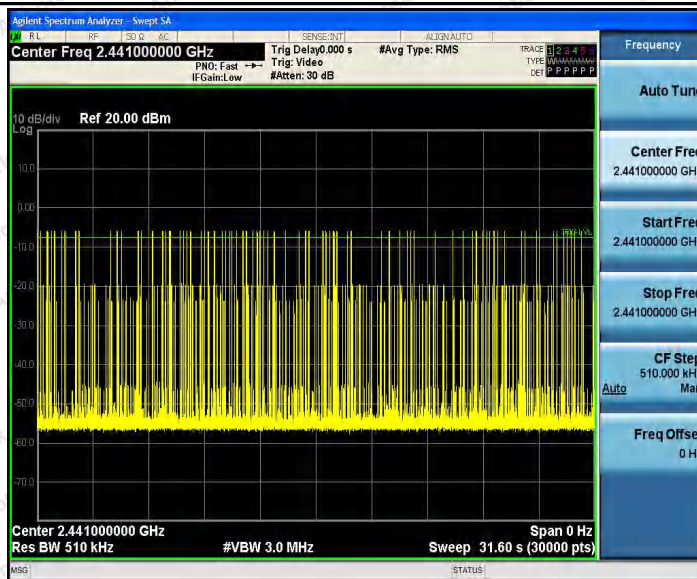


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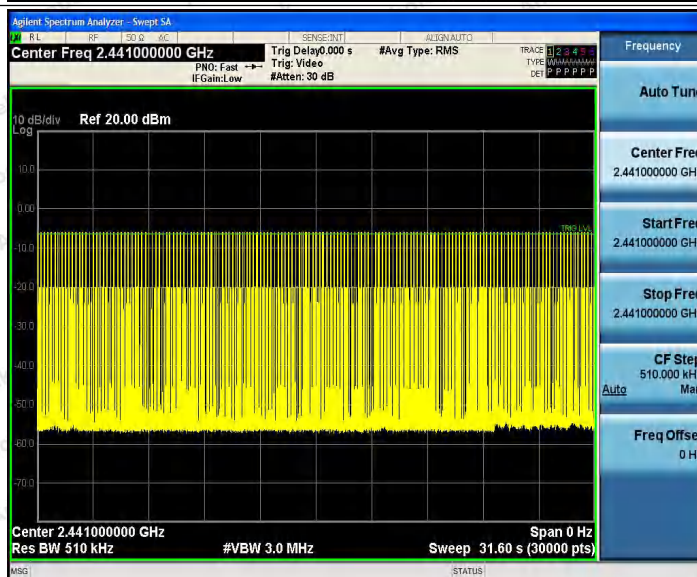
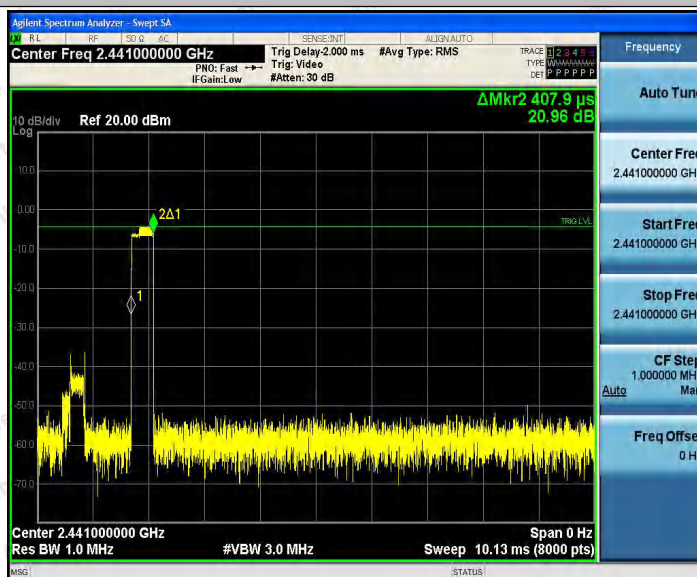
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3DH1_Ant1_Hop



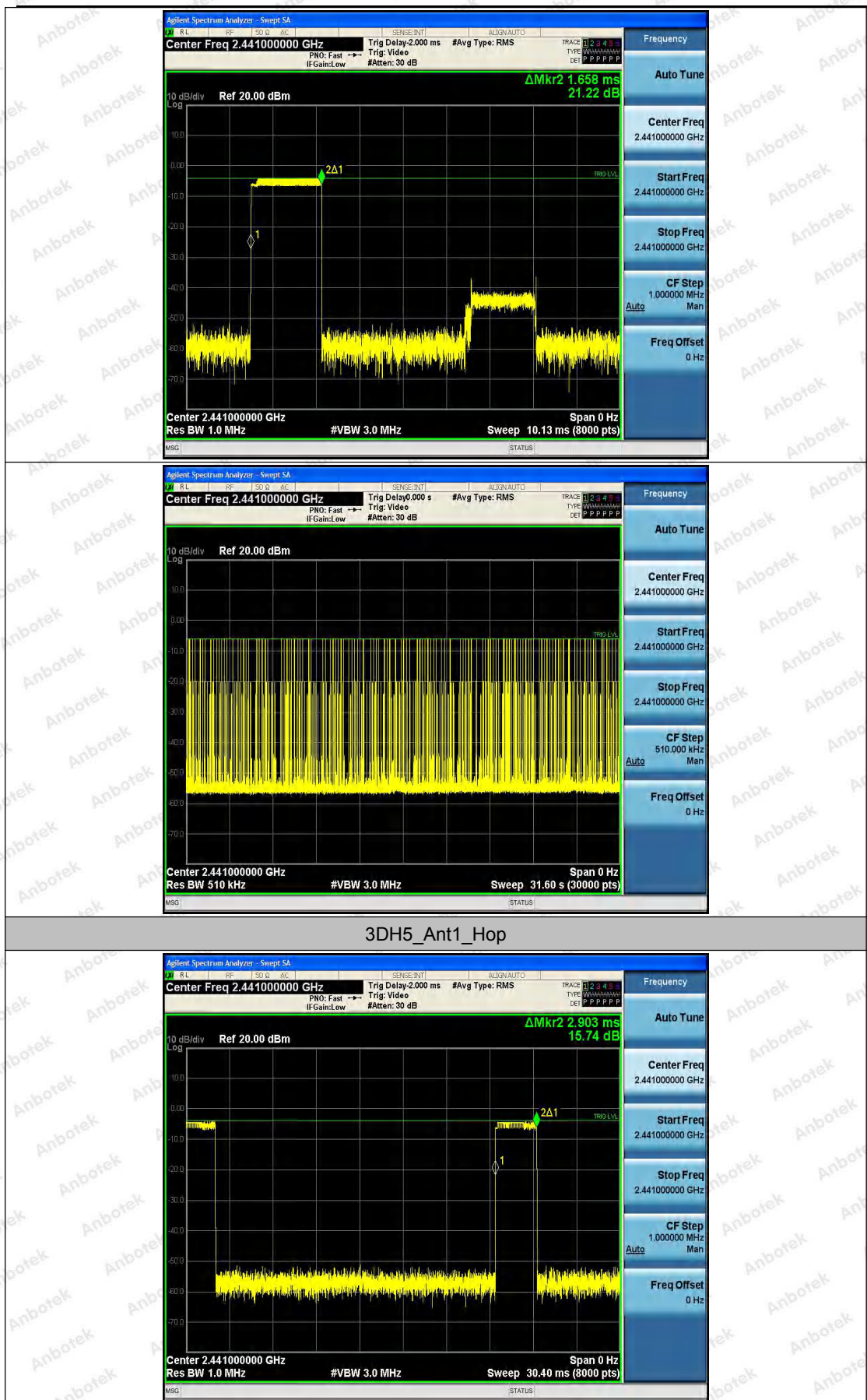
3DH3_Ant1_Hop

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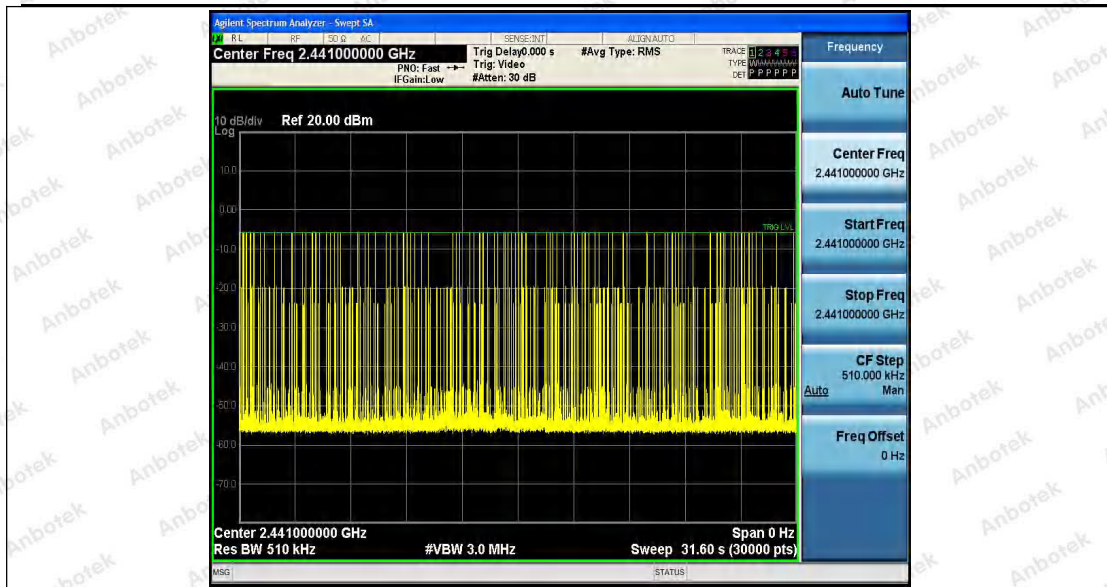
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3DH5_Ant1_Hop



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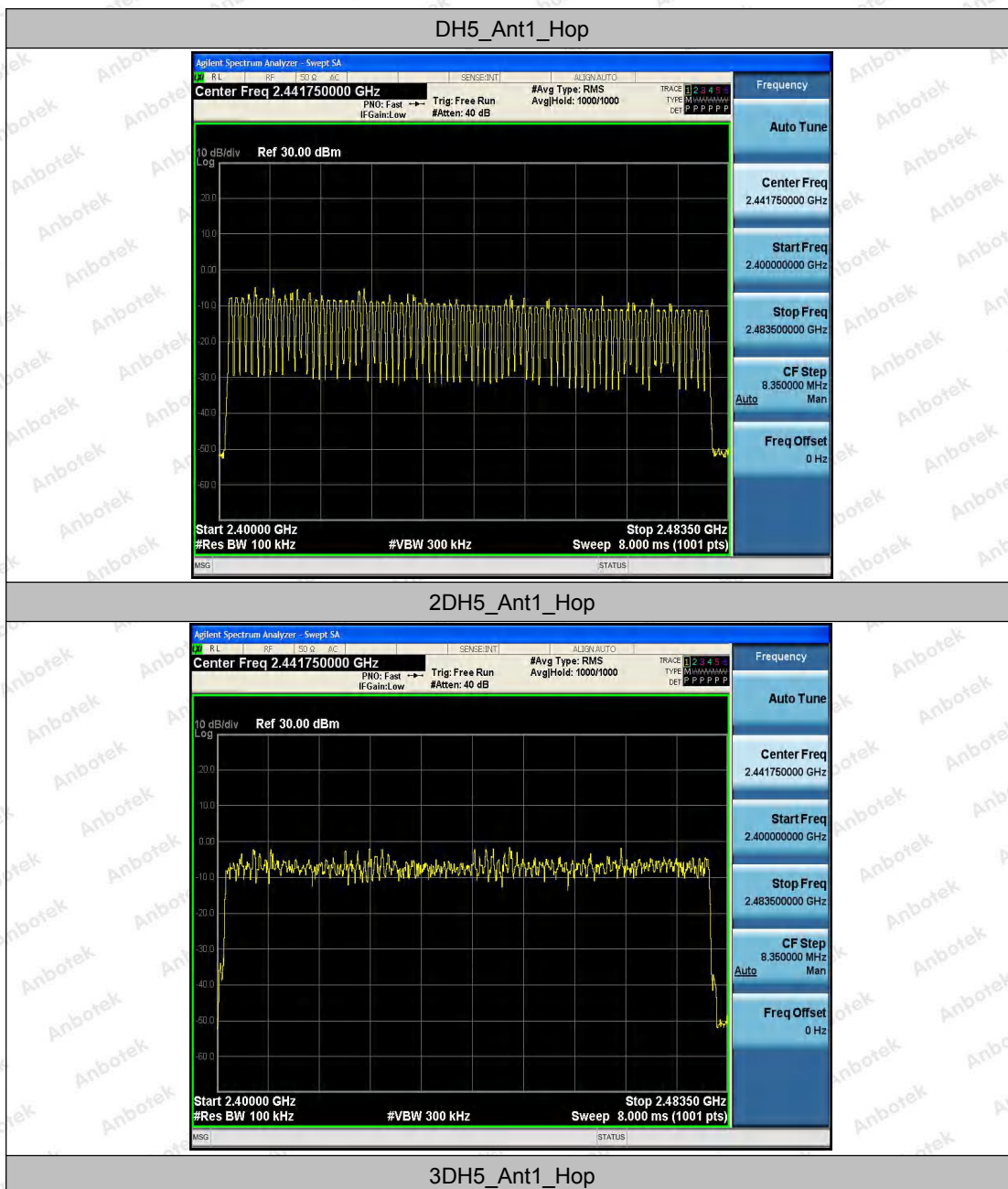
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Appendix F: Number of hopping channels

Test Result

TestMode	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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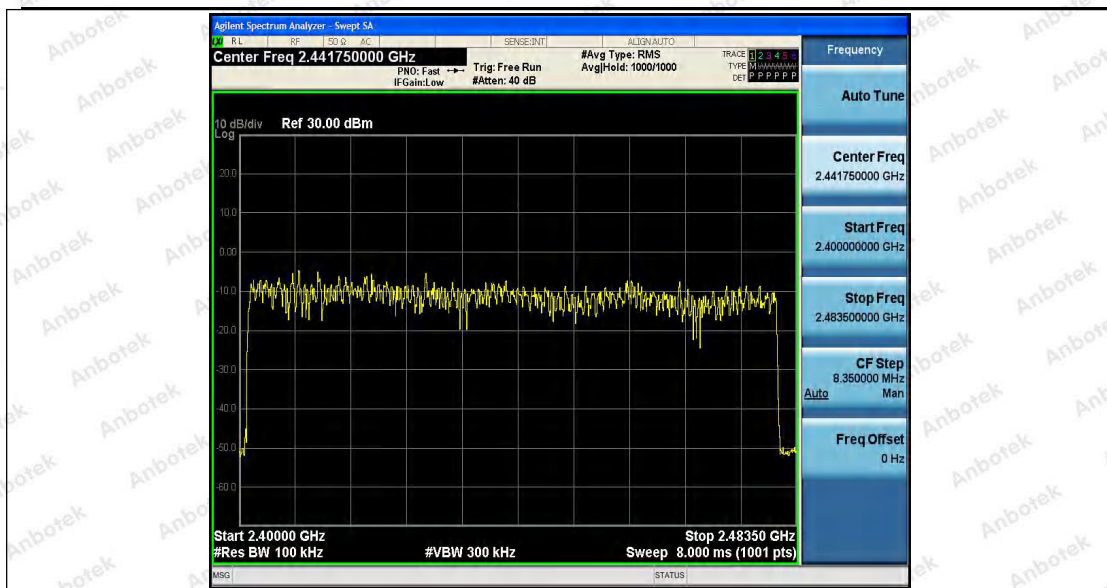
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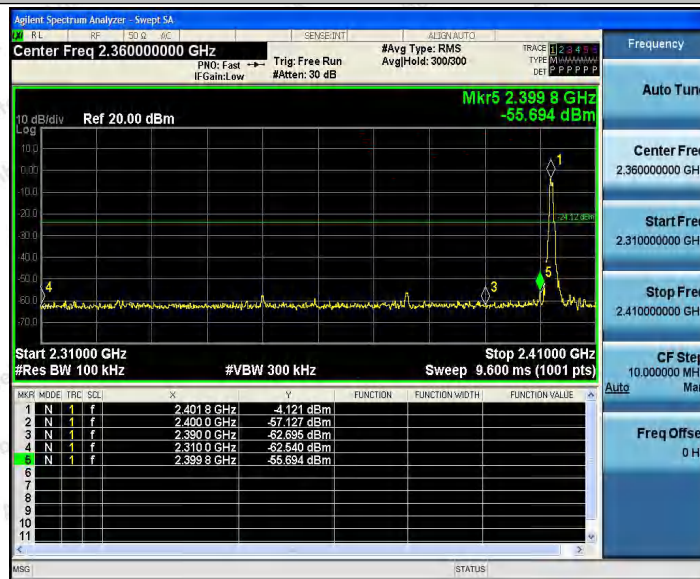
Appendix G: Band edge measurements

Test Result

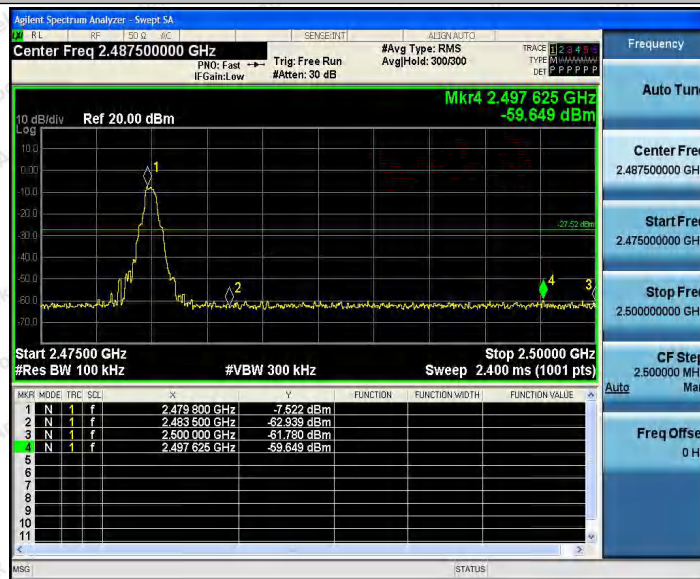
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.12	-55.69	≤ -24.12	PASS
		High	2480	-7.52	-59.65	≤ -27.52	PASS
		Low	Hop	-7.90	-55.94	≤ -27.9	PASS
		High	Hop	-7.99	-60	≤ -27.99	PASS
2DH5	Ant1	Low	2402	-4.32	-55.62	≤ -24.32	PASS
		High	2480	-7.67	-58.89	≤ -27.67	PASS
		Low	Hop	-10.34	-51.16	≤ -30.34	PASS
		High	Hop	-12.18	-61.32	≤ -32.18	PASS
3DH5	Ant1	Low	2402	-4.26	-54.71	≤ -24.26	PASS
		High	2480	-7.62	-59.65	≤ -27.62	PASS
		Low	Hop	-5.18	-56.37	≤ -25.18	PASS
		High	Hop	-9.76	-60.45	≤ -29.76	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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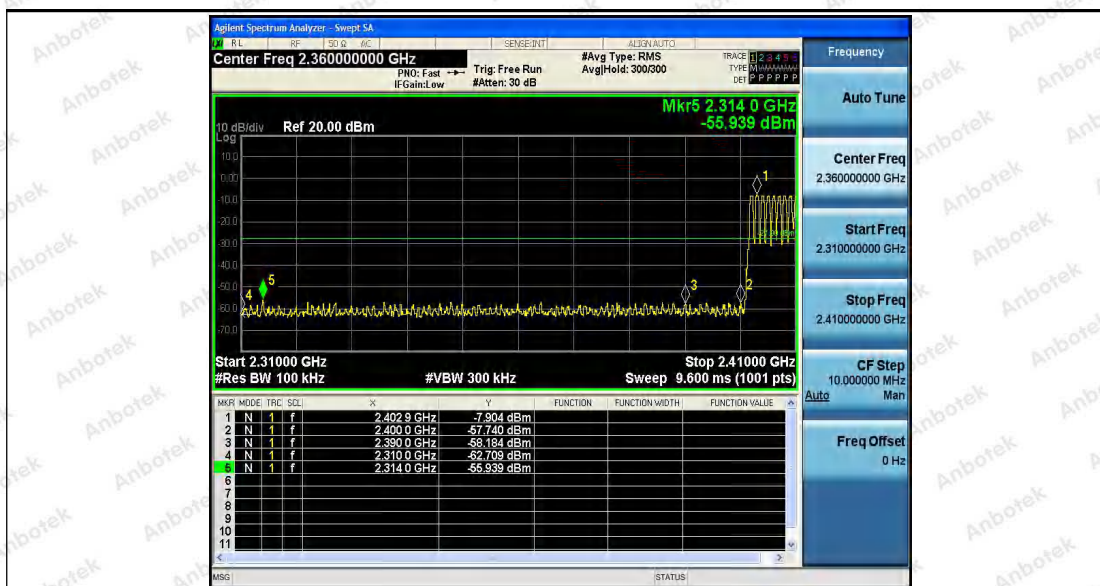
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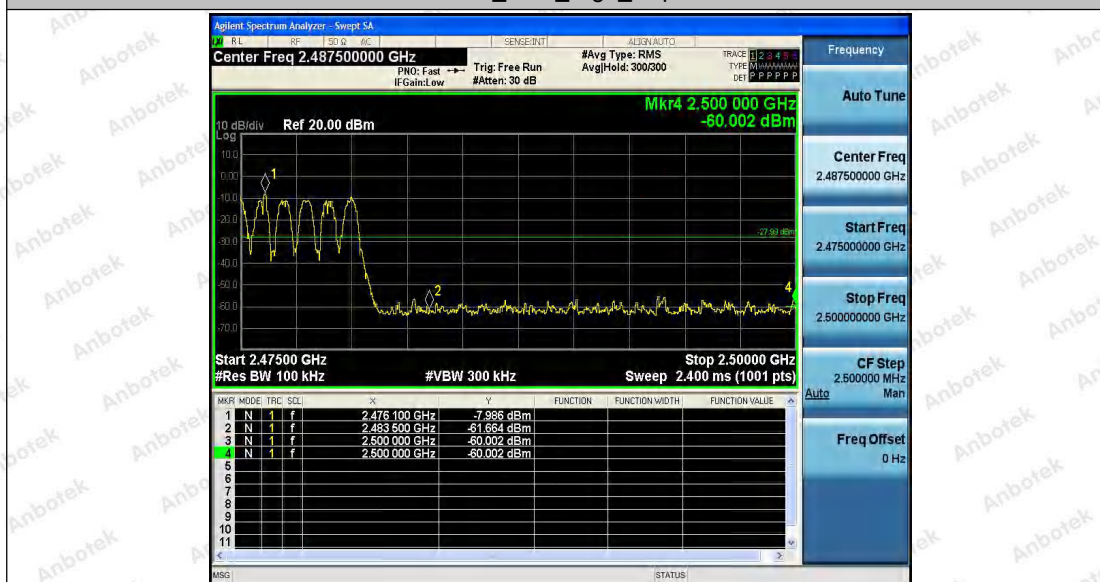
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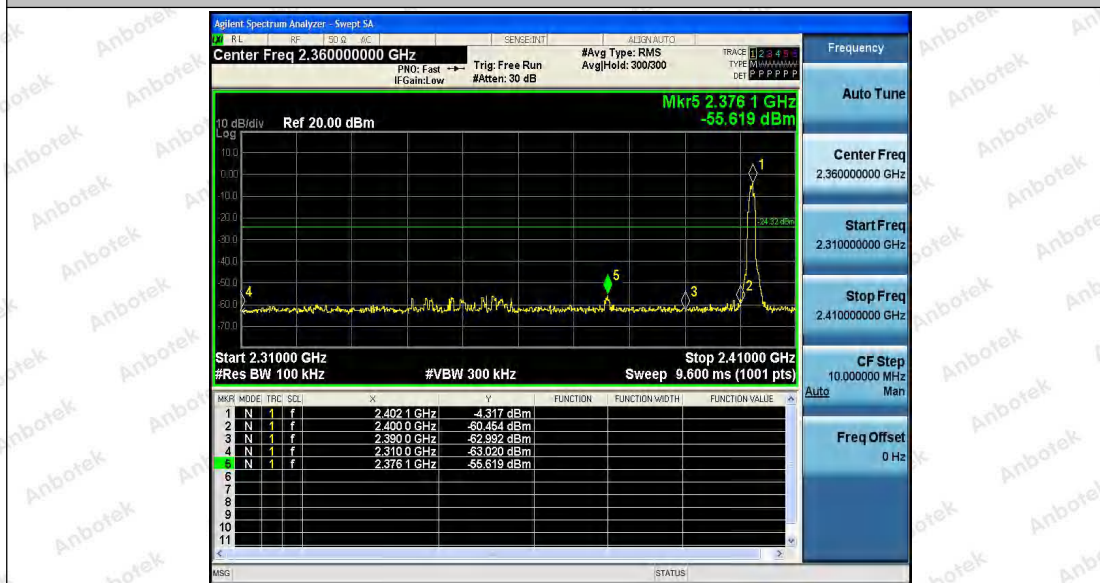
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



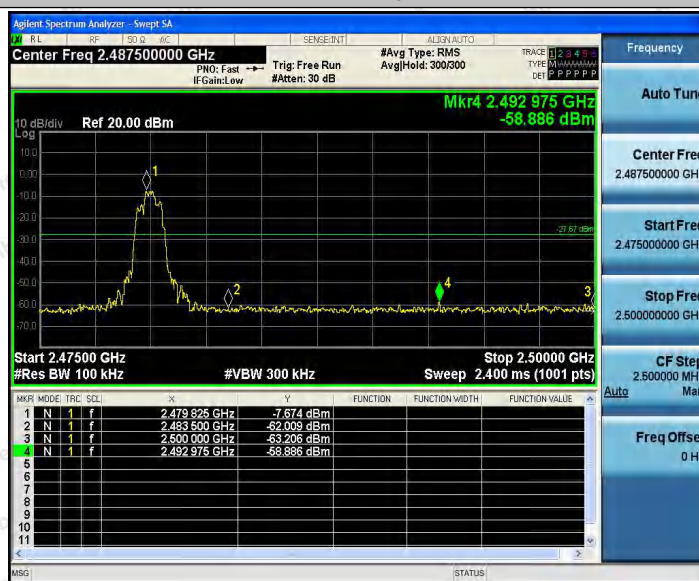
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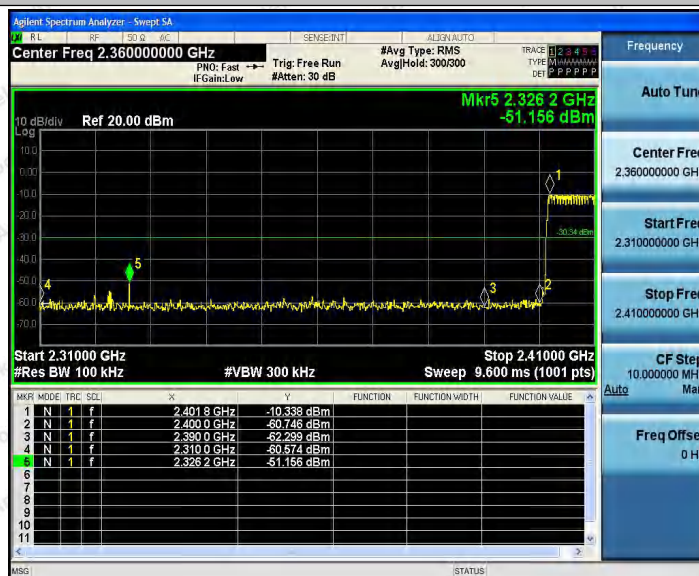
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



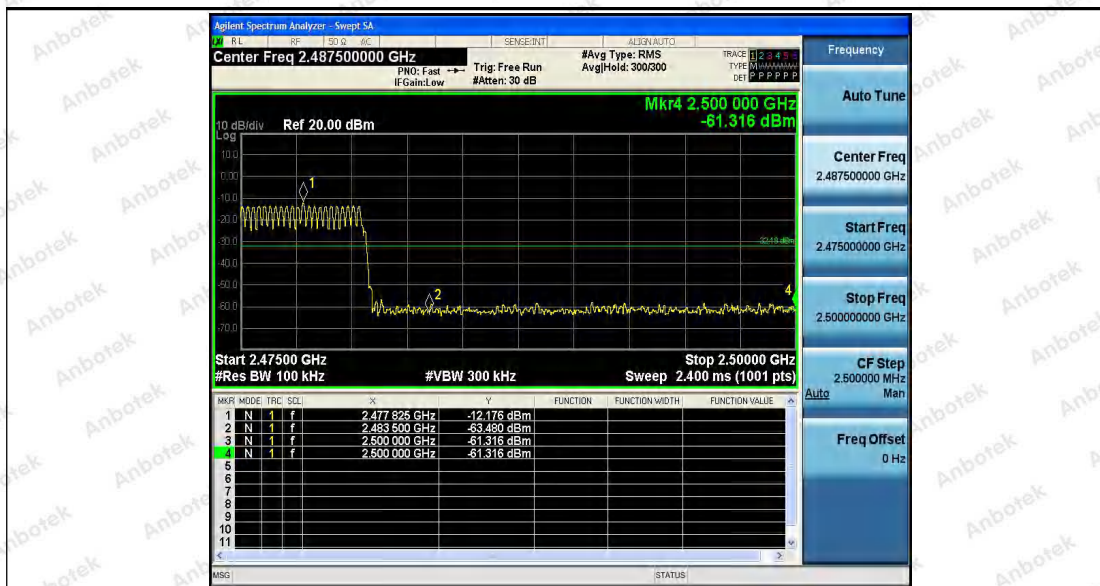
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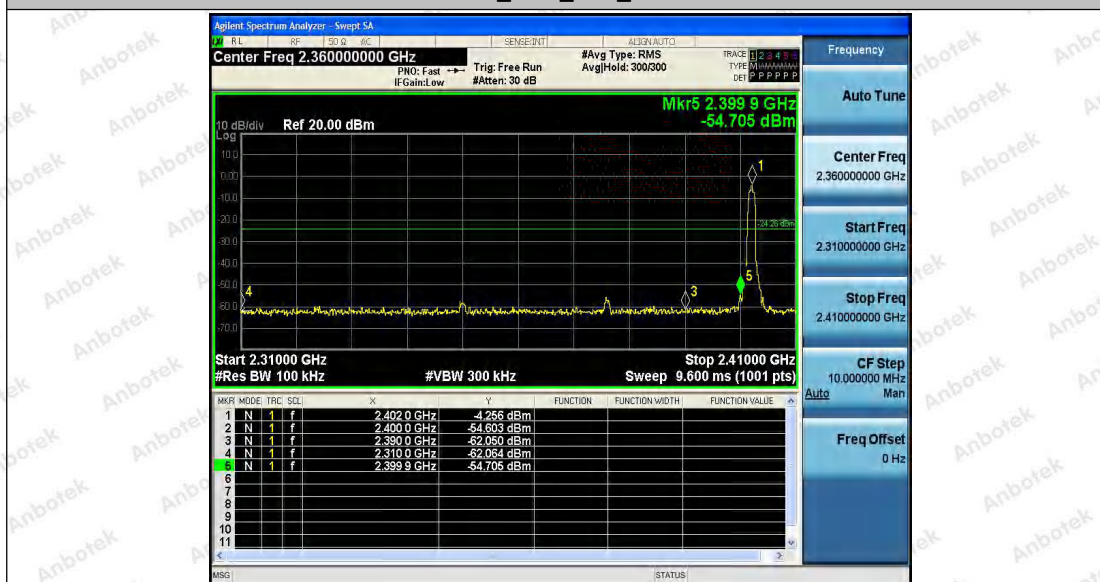
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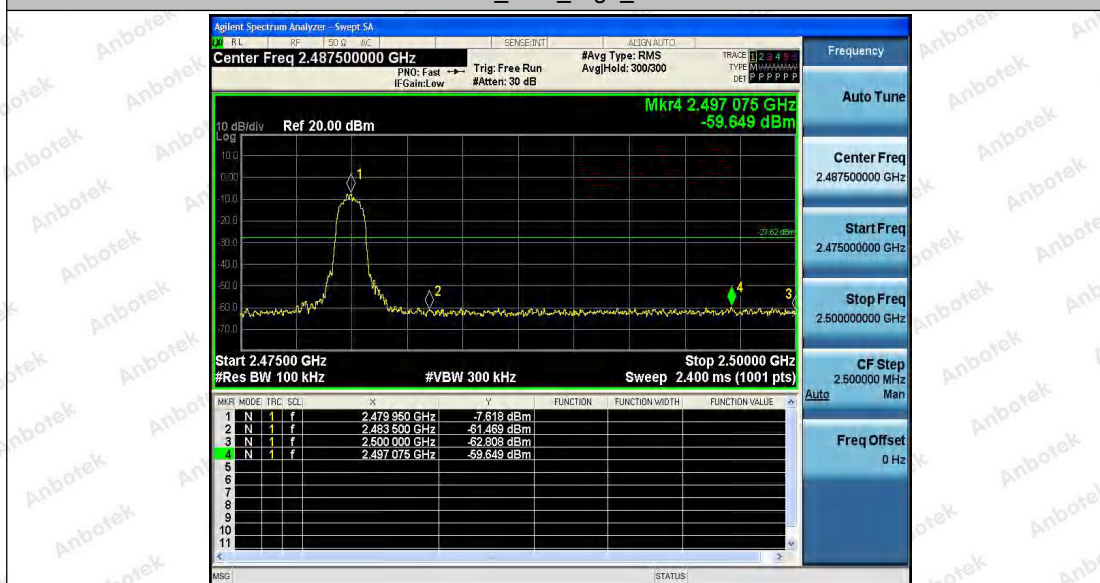
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

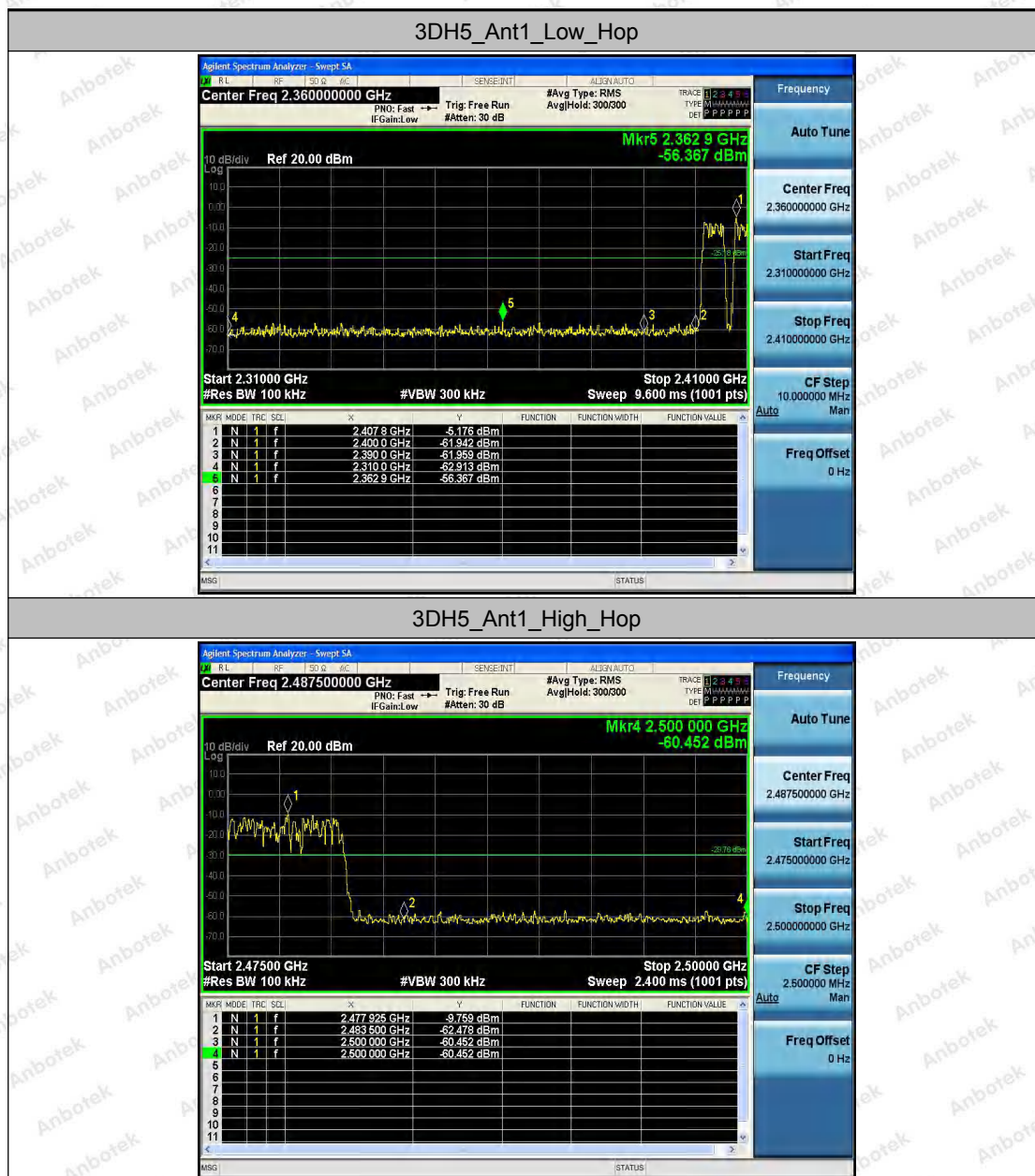


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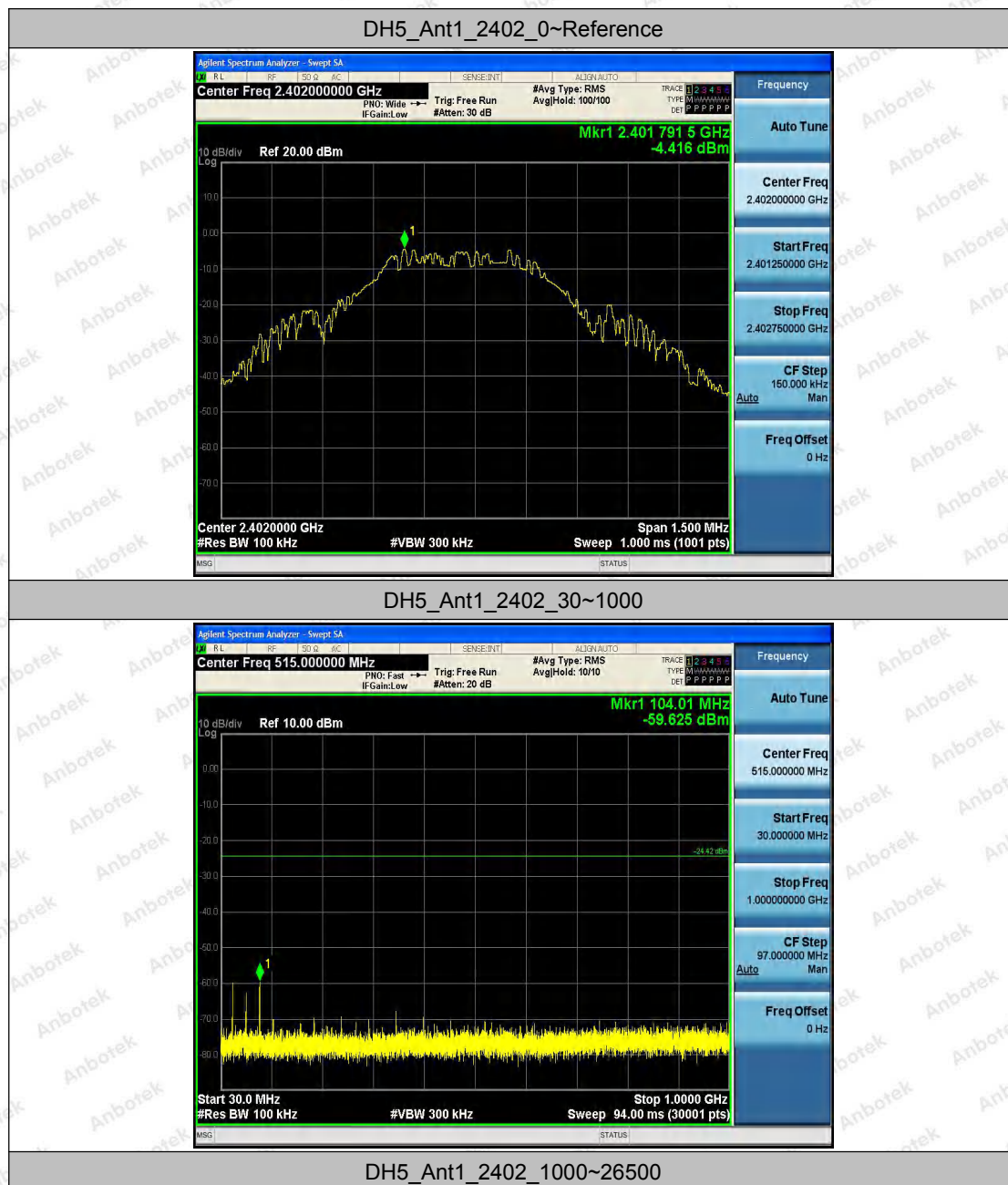


Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.42	-4.42	---	PASS
			30~1000	-4.42	-59.63	≤-24.42	PASS
			1000~26500	-4.42	-53.74	≤-24.42	PASS
		2441	Reference	-6.36	-6.36	---	PASS
			30~1000	-6.36	-59.25	≤-26.36	PASS
			1000~26500	-6.36	-55.27	≤-26.36	PASS
		2480	Reference	-7.71	-7.71	---	PASS
			30~1000	-7.71	-58.69	≤-27.71	PASS
			1000~26500	-7.71	-53.14	≤-27.71	PASS
2DH5	Ant1	2402	Reference	-4.36	-4.36	---	PASS
			30~1000	-4.36	-59.77	≤-24.36	PASS
			1000~26500	-4.36	-53.27	≤-24.36	PASS
		2441	Reference	-6.63	-6.63	---	PASS
			30~1000	-6.63	-59.16	≤-26.63	PASS
			1000~26500	-6.63	-52.08	≤-26.63	PASS
		2480	Reference	-7.73	-7.73	---	PASS
			30~1000	-7.73	-59.55	≤-27.73	PASS
			1000~26500	-7.73	-53.01	≤-27.73	PASS
3DH5	Ant1	2402	Reference	-4.25	-4.25	---	PASS
			30~1000	-4.25	-59.32	≤-24.25	PASS
			1000~26500	-4.25	-53.09	≤-24.25	PASS
		2441	Reference	-6.68	-6.68	---	PASS
			30~1000	-6.68	-58.82	≤-26.68	PASS
			1000~26500	-6.68	-50.81	≤-26.68	PASS
		2480	Reference	-7.62	-7.62	---	PASS
			30~1000	-7.62	-59.63	≤-27.62	PASS
			1000~26500	-7.62	-49.64	≤-27.62	PASS

Test Graphs



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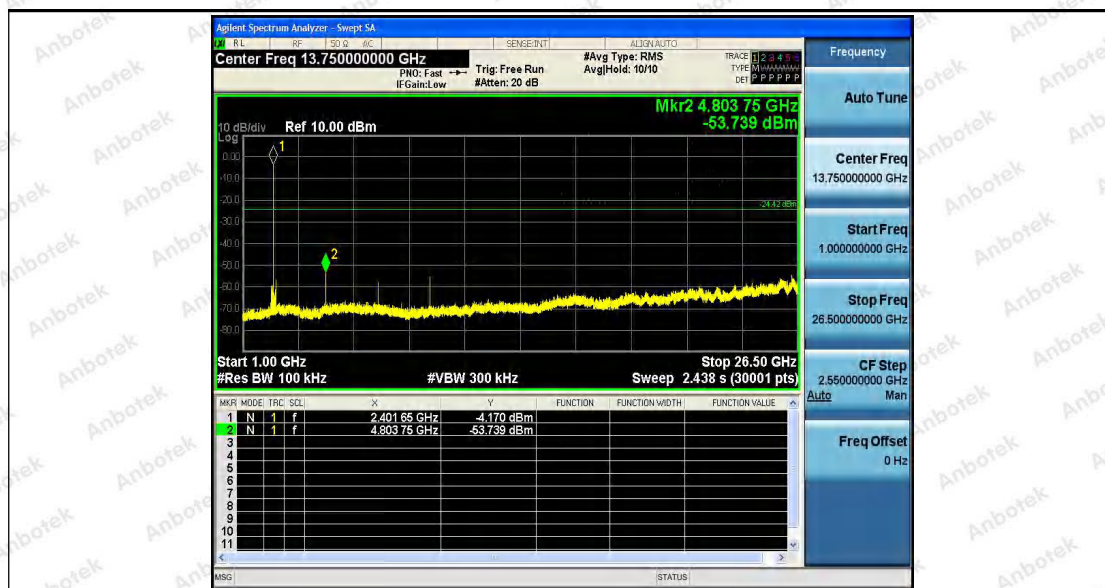
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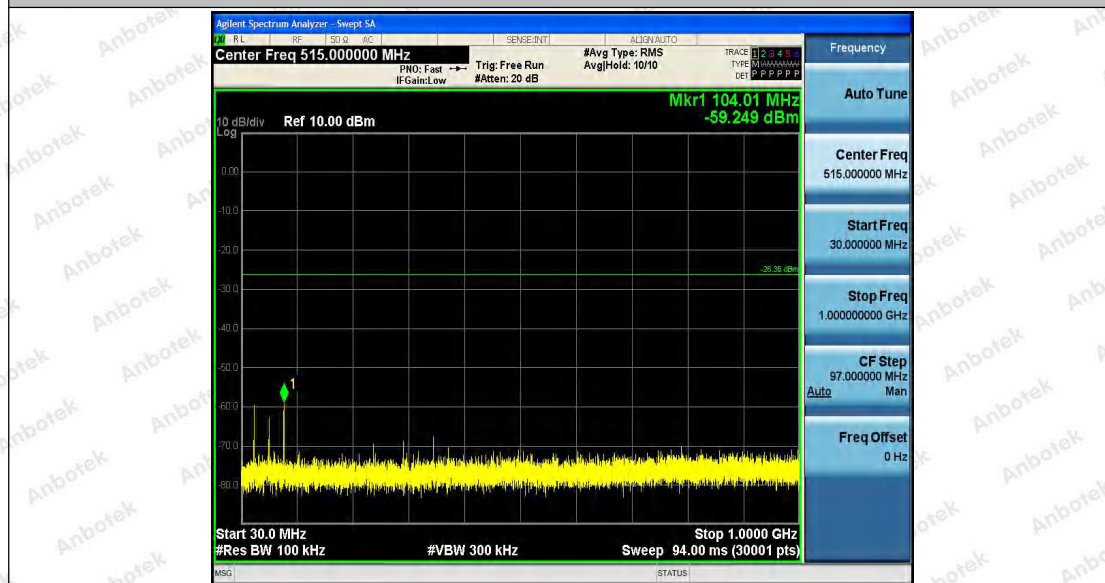
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



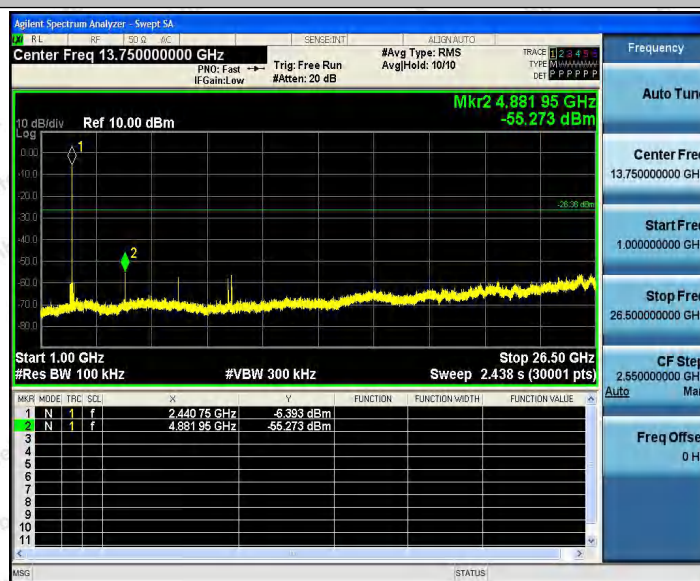
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



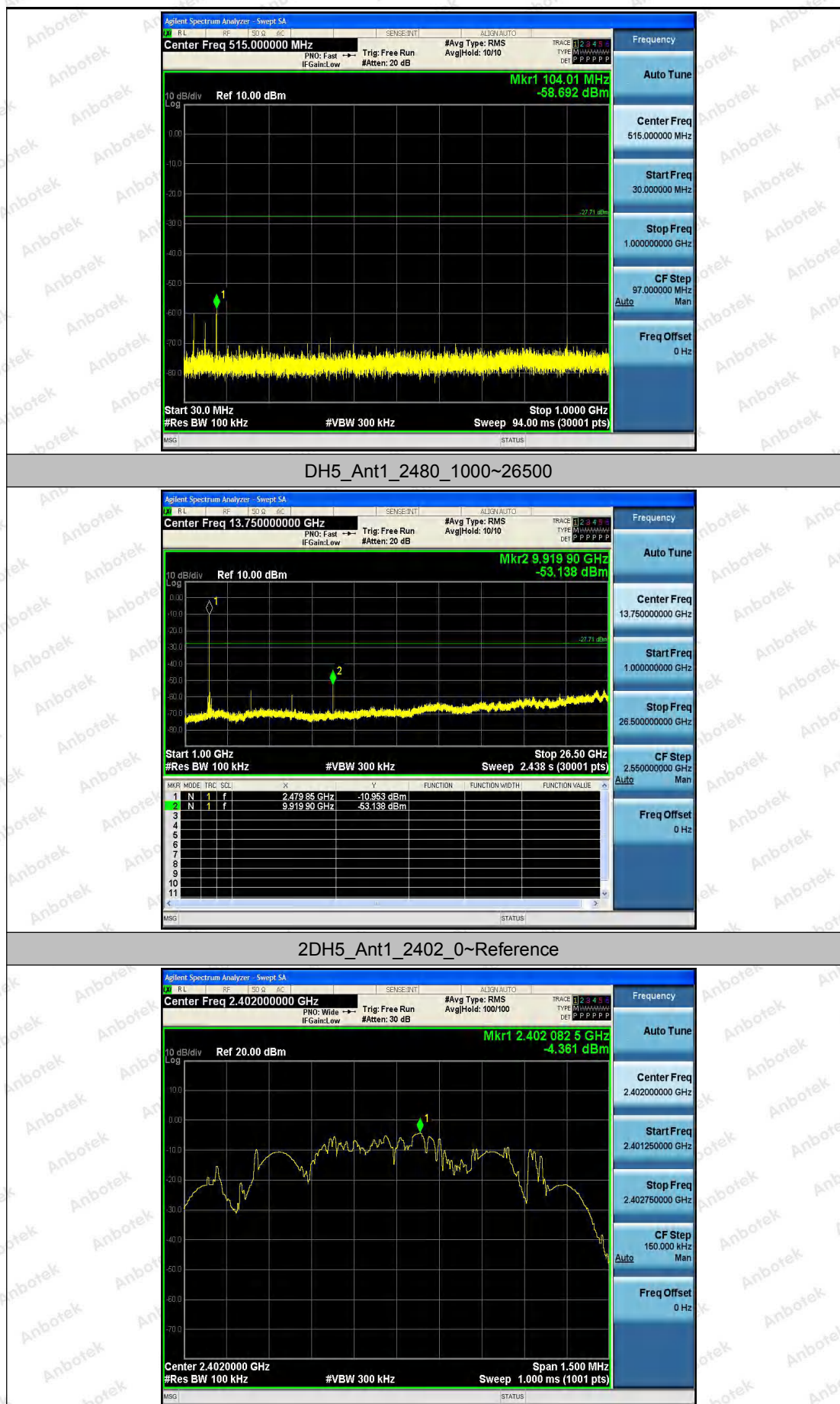
DH5_Ant1_2480_30~1000

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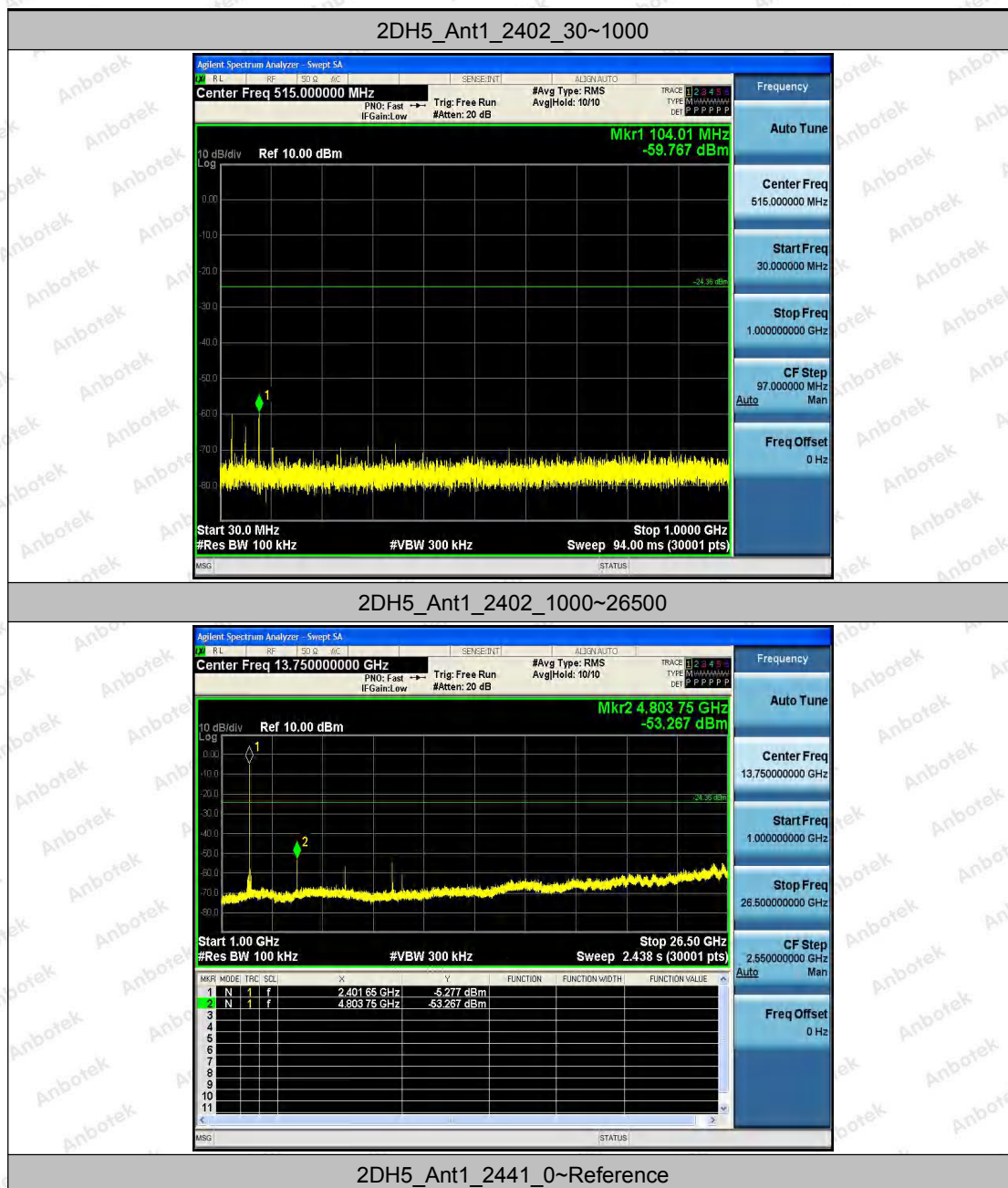


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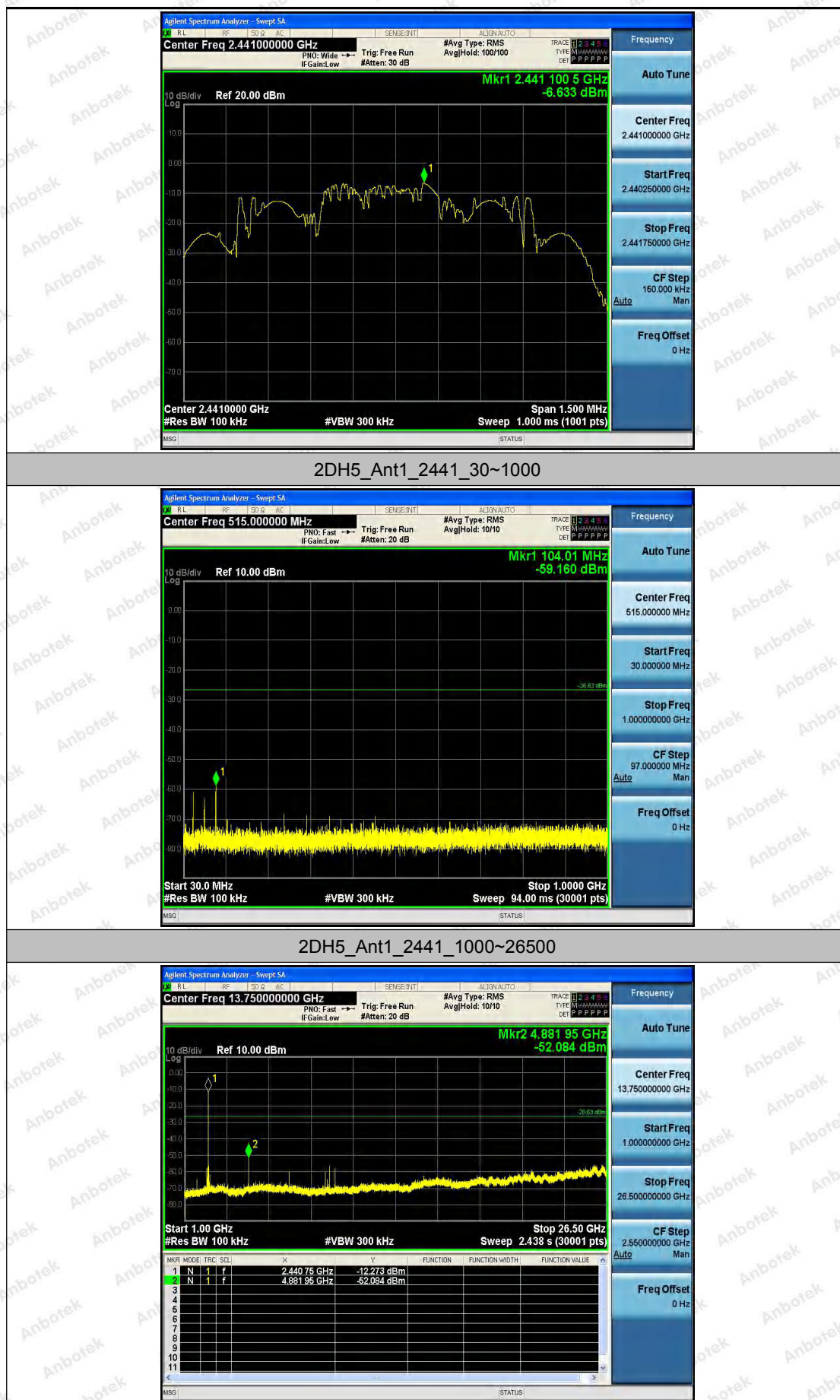


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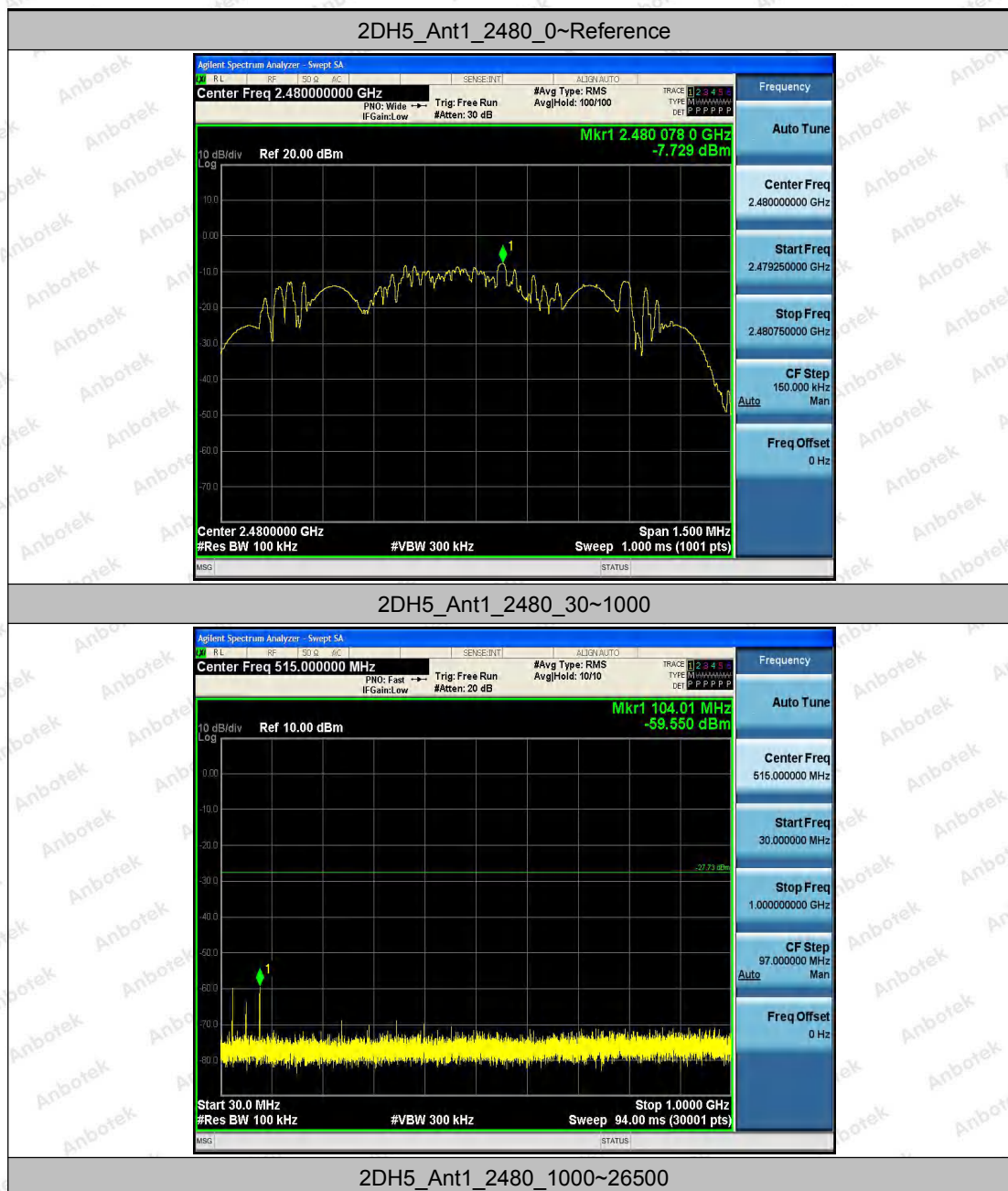


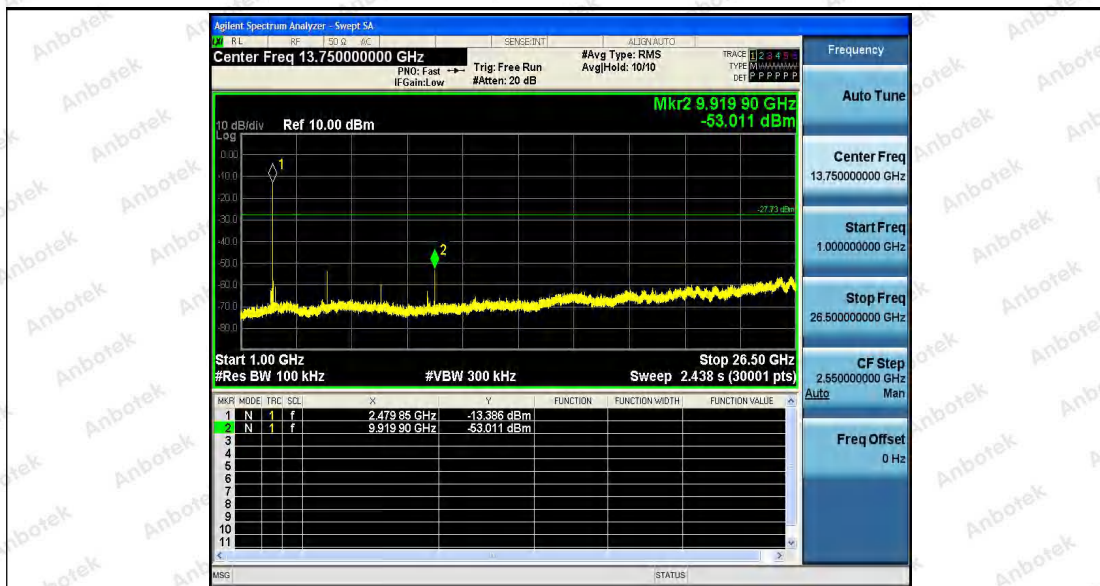
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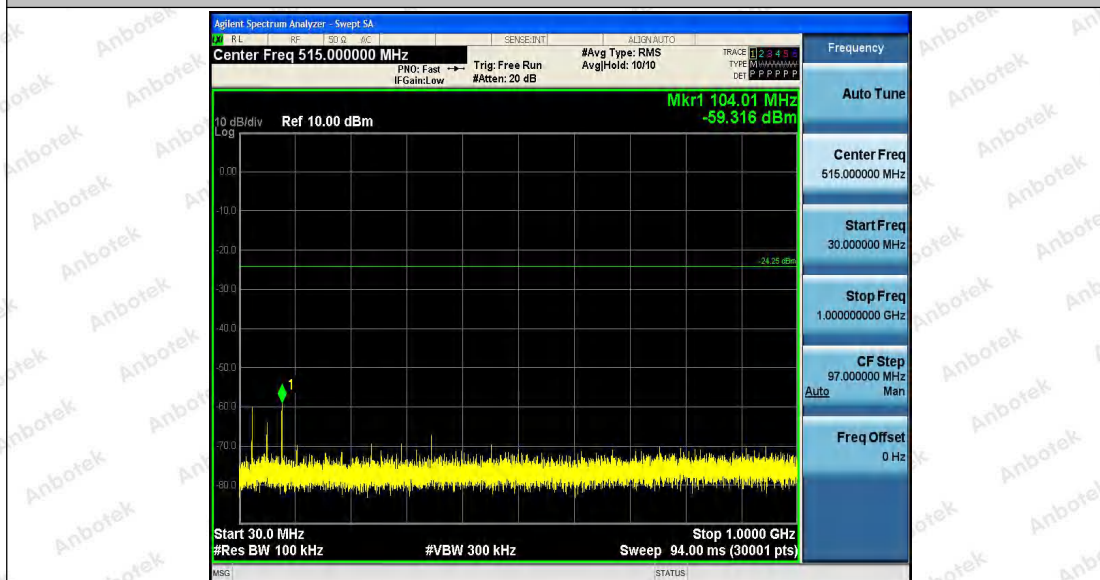




3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



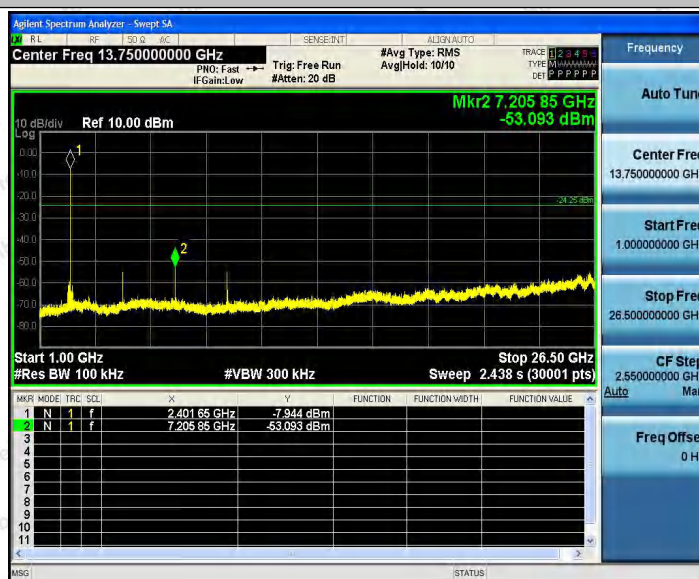
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



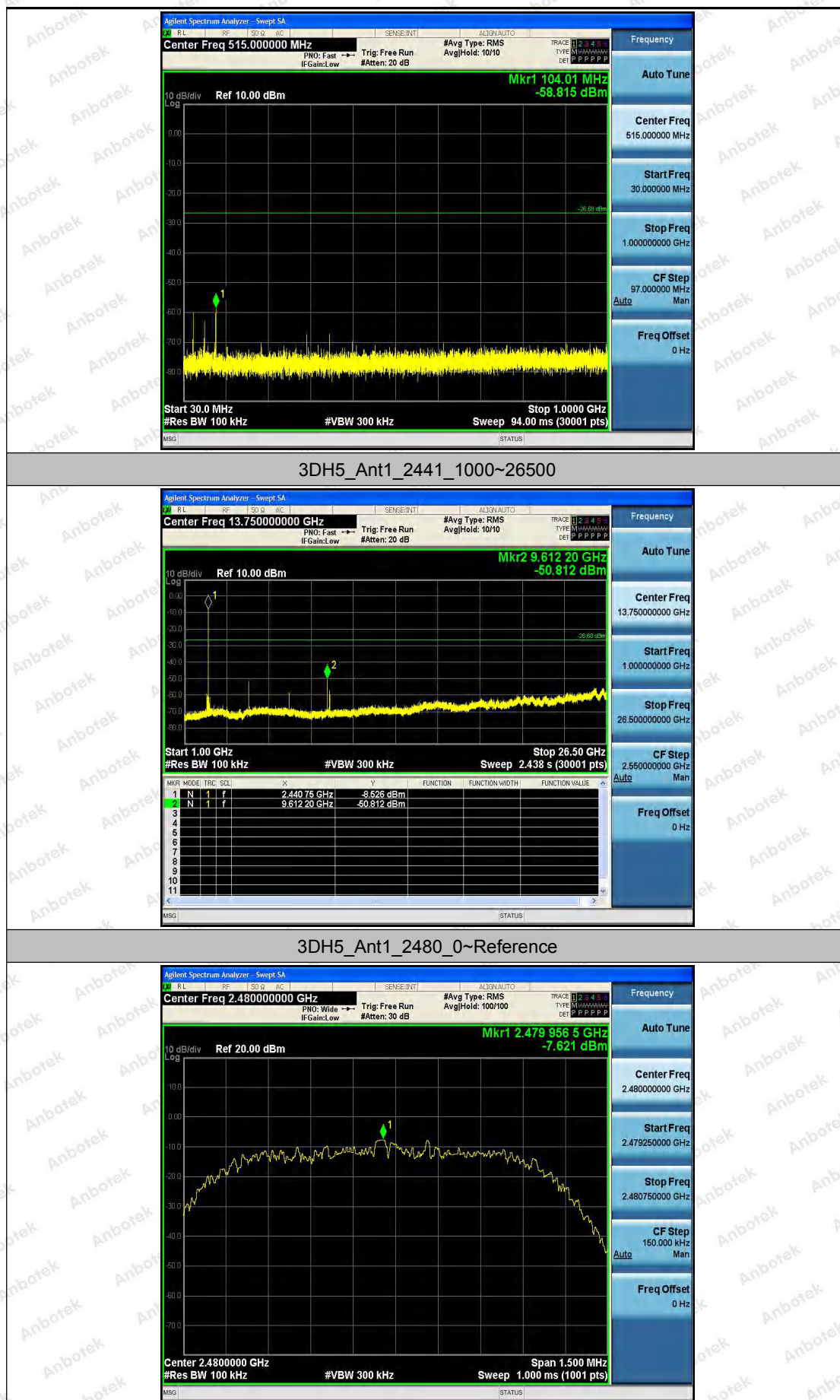
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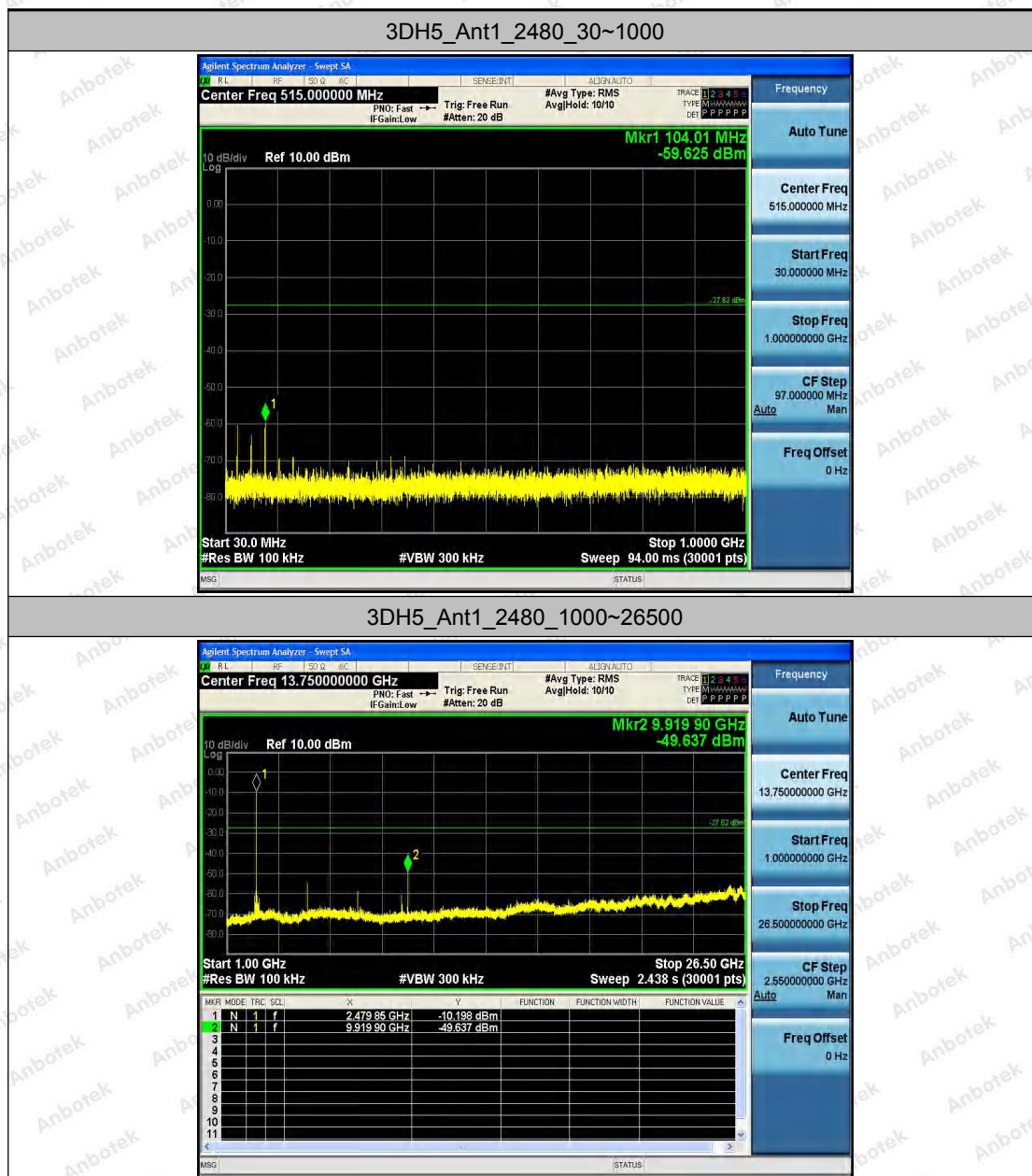


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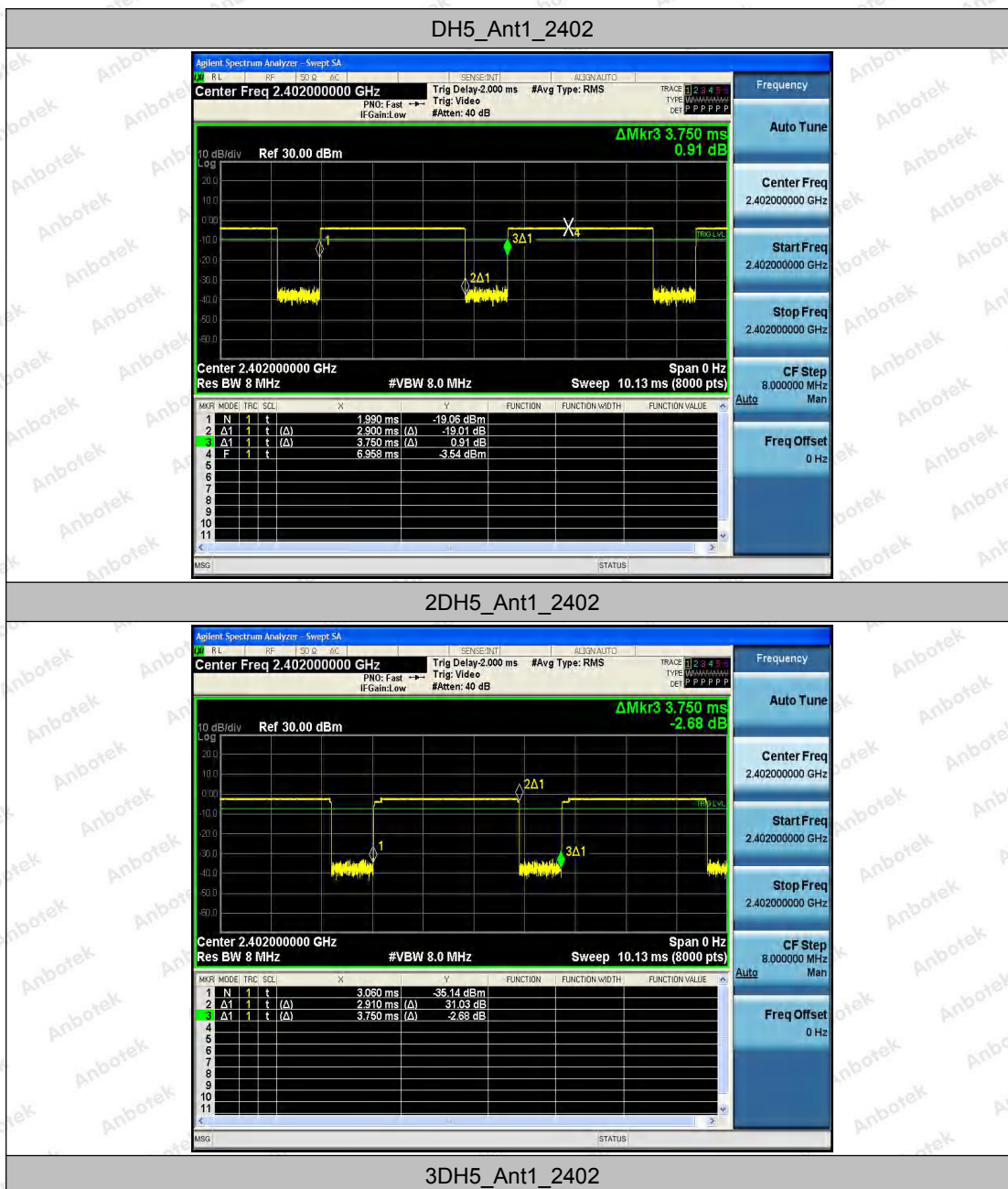
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	0.7733	77.33	1.12	---	PASS
2DH5	Ant1	2402	2.91	3.75	0.7760	77.60	1.10	---	PASS
3DH5	Ant1	2402	2.91	3.75	0.7760	77.60	1.10	---	PASS

Test Graphs



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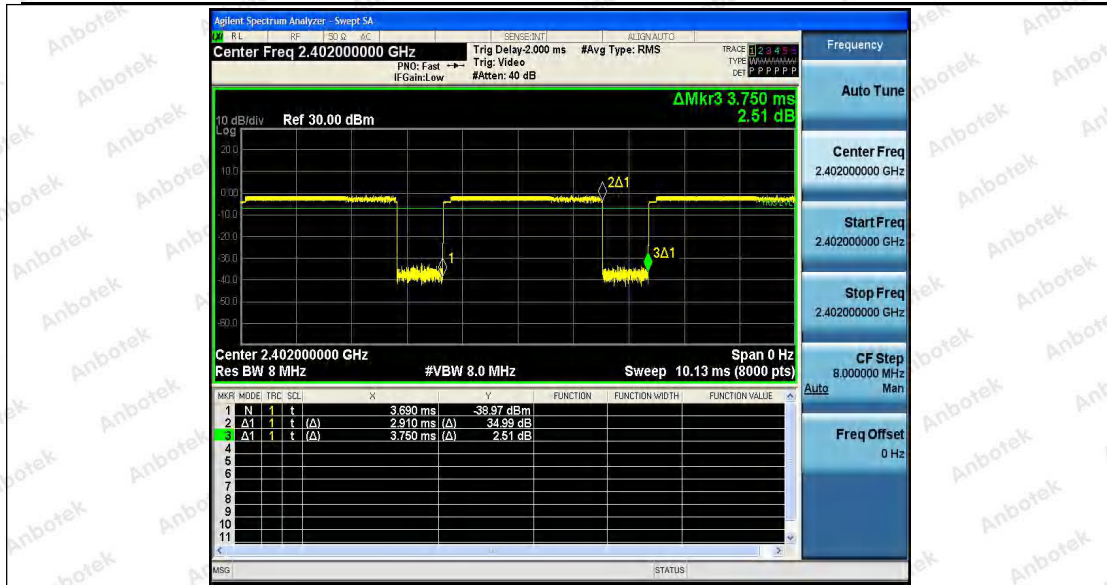
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