

Appendix Test Data

Report No.:	18220WC10285601	Test Sample No.:	1-2-2
Start Test Date:	2021.12.28	Finish Test Date:	2022.1.4
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.3°C	Relative Humidity:	56 %
Pressure:	1012 hPa		

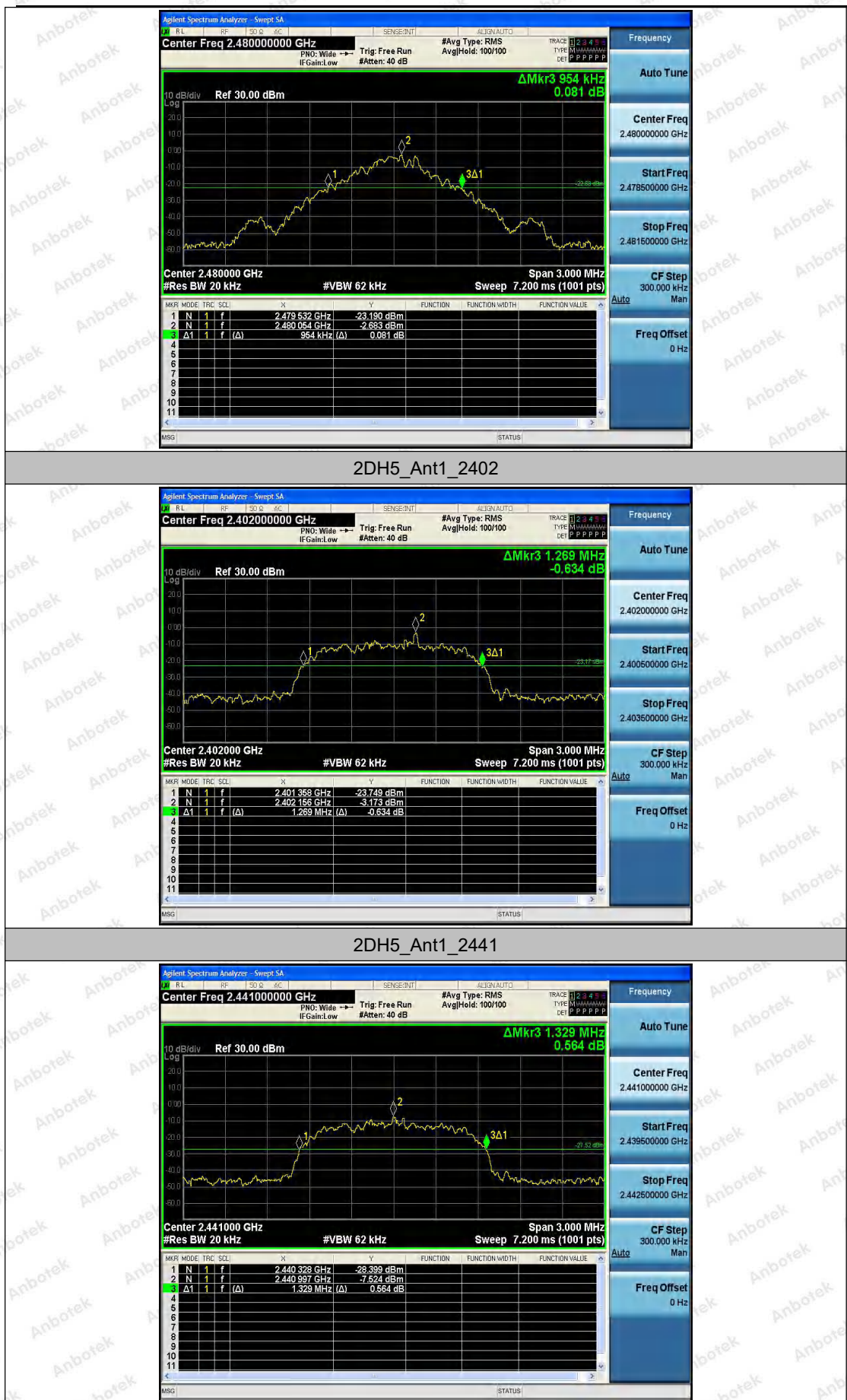
Appendix A: 20dB Emission Bandwidth

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	0.951	2440.532	2441.483	---	PASS
		2480	0.954	2479.532	2480.486	---	PASS
2DH5	Ant1	2402	1.269	2401.358	2402.627	---	PASS
		2441	1.329	2440.328	2441.657	---	PASS
		2480	1.269	2479.358	2480.627	---	PASS
3DH5	Ant1	2402	1.296	2401.343	2402.639	---	PASS
		2441	1.296	2440.340	2441.636	---	PASS
		2480	1.317	2479.337	2480.654	---	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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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	0.89842	2401.550	2402.448	---	PASS
		2441	0.88532	2440.555	2441.441	---	PASS
		2480	0.89439	2479.549	2480.443	---	PASS
2DH5	Ant1	2402	1.1957	2401.396	2402.592	---	PASS
		2441	1.1935	2440.397	2441.590	---	PASS
		2480	1.1868	2479.399	2480.586	---	PASS
3DH5	Ant1	2402	1.2119	2401.380	2402.592	---	PASS
		2441	1.2002	2440.385	2441.586	---	PASS
		2480	1.1979	2479.390	2480.588	---	PASS

Test Graphs



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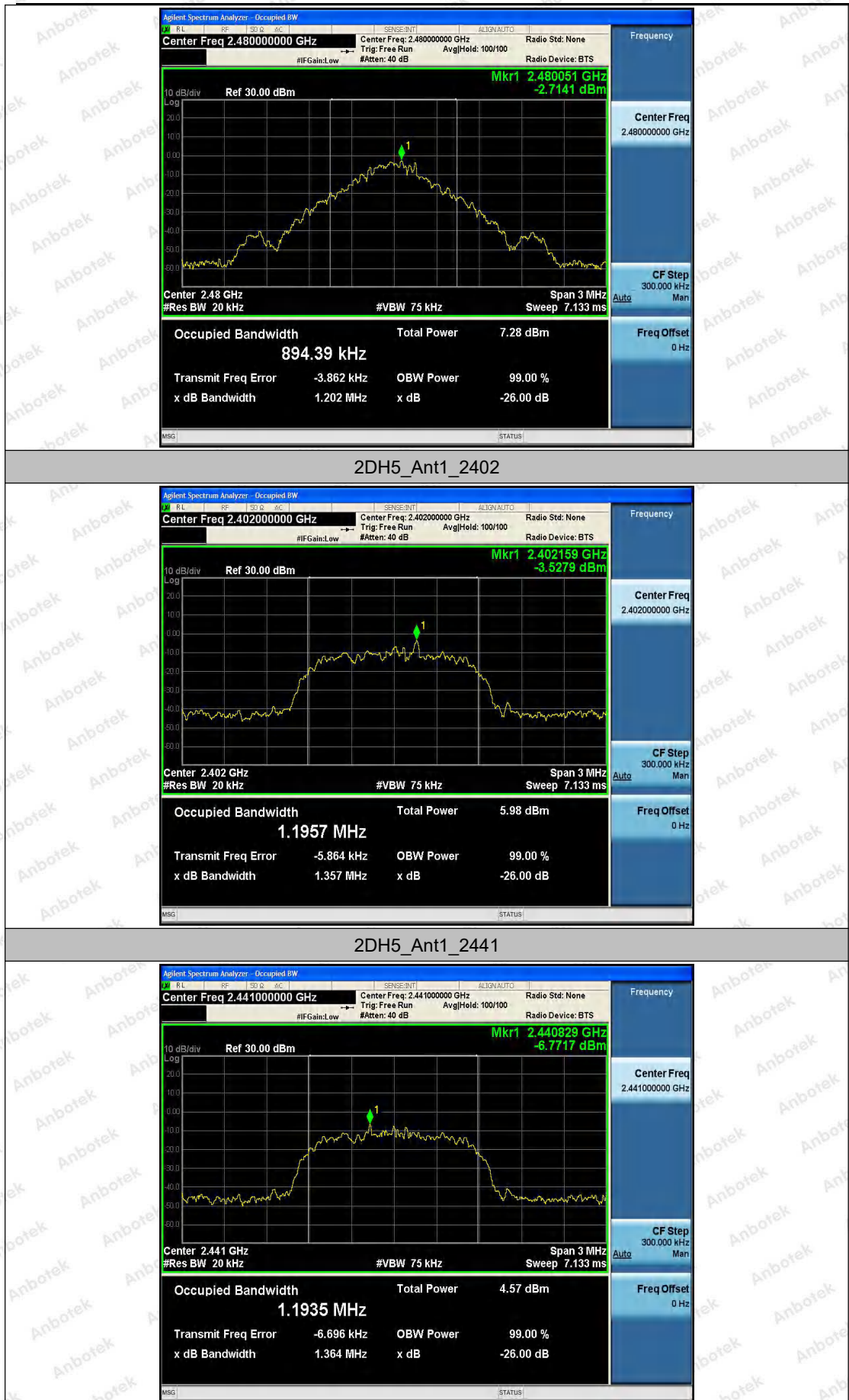
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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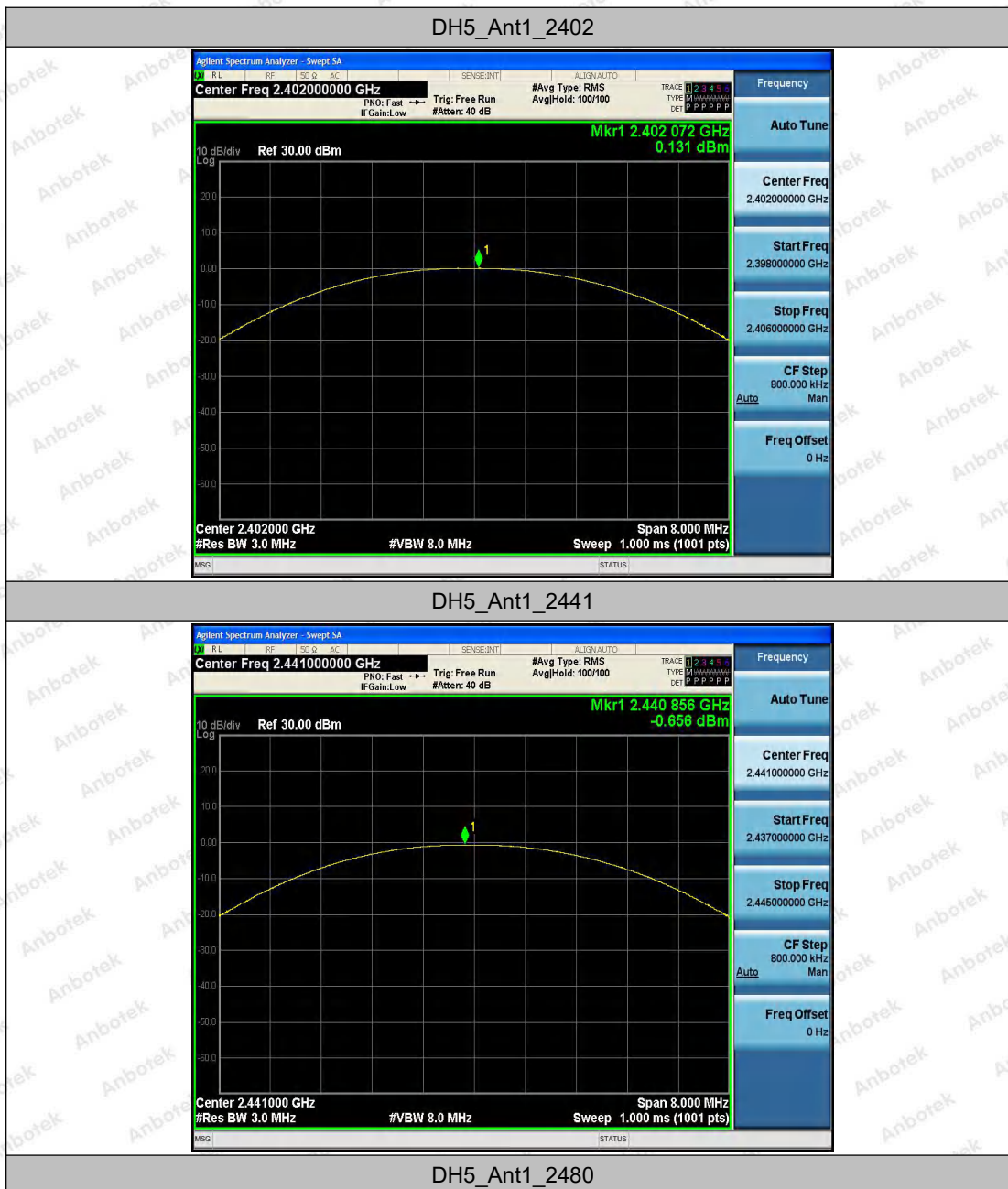
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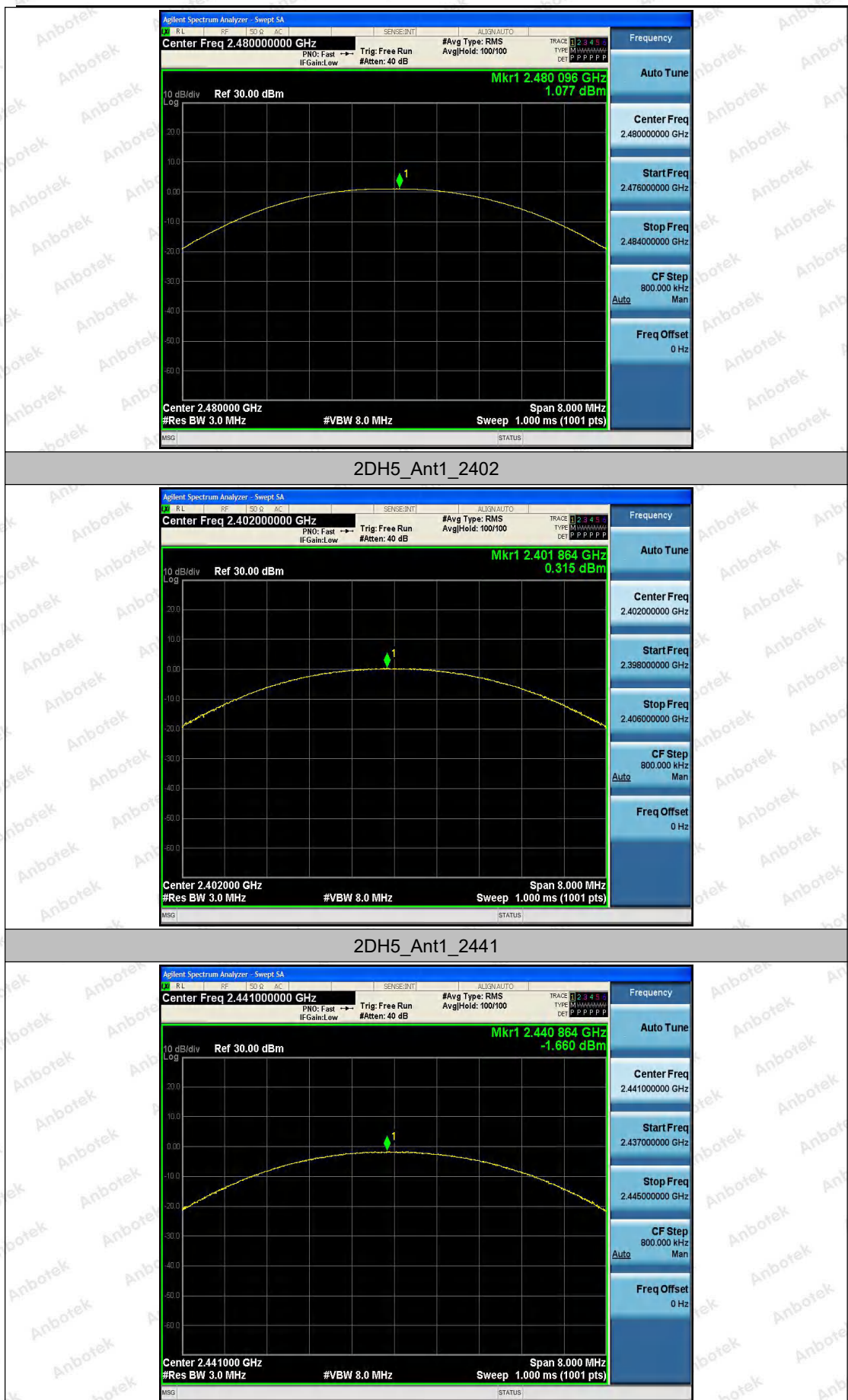
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.13	≤30	PASS
		2441	-0.66	≤30	PASS
		2480	1.08	≤30	PASS
2DH5	Ant1	2402	0.32	≤20.97	PASS
		2441	-1.66	≤20.97	PASS
		2480	0.49	≤20.97	PASS
3DH5	Ant1	2402	0.77	≤20.97	PASS
		2441	-1.25	≤20.97	PASS
		2480	0.29	≤20.97	PASS

Test Graphs





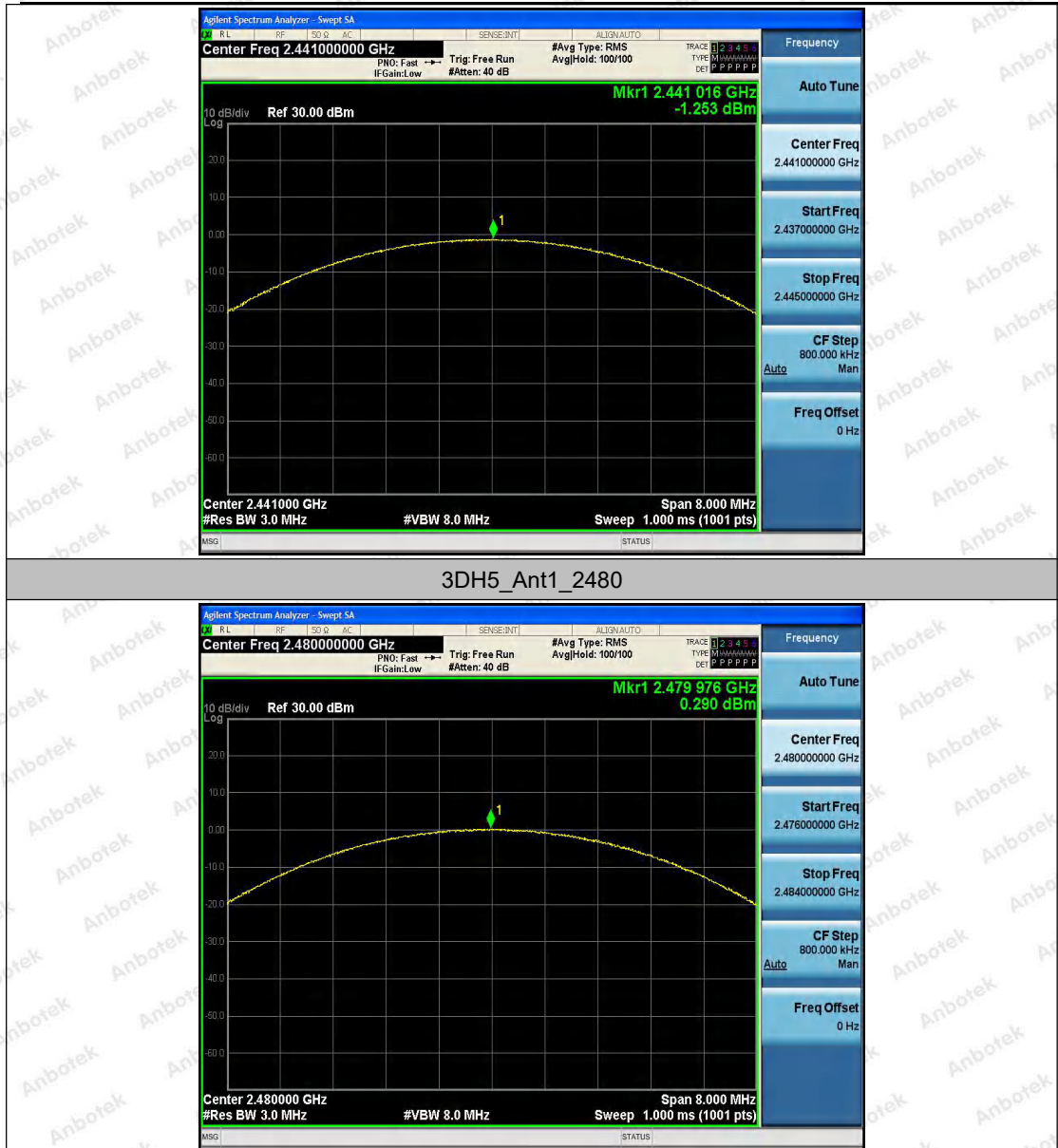
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.894	≥ 0.636	PASS
2DH5	Ant1	Hop	1.006	≥ 0.886	PASS
3DH5	Ant1	Hop	1.348	≥ 0.878	PASS

Test Graphs





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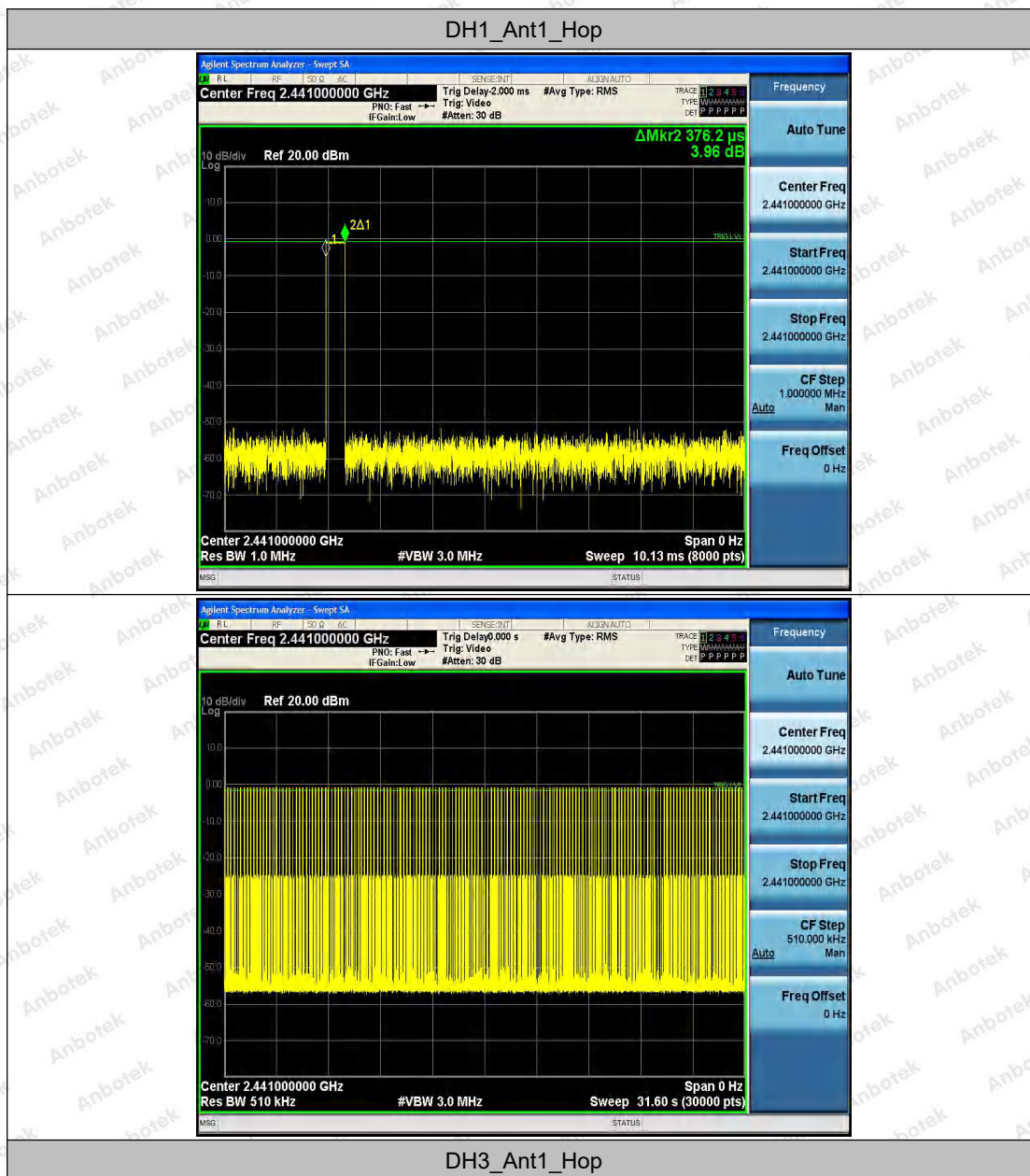
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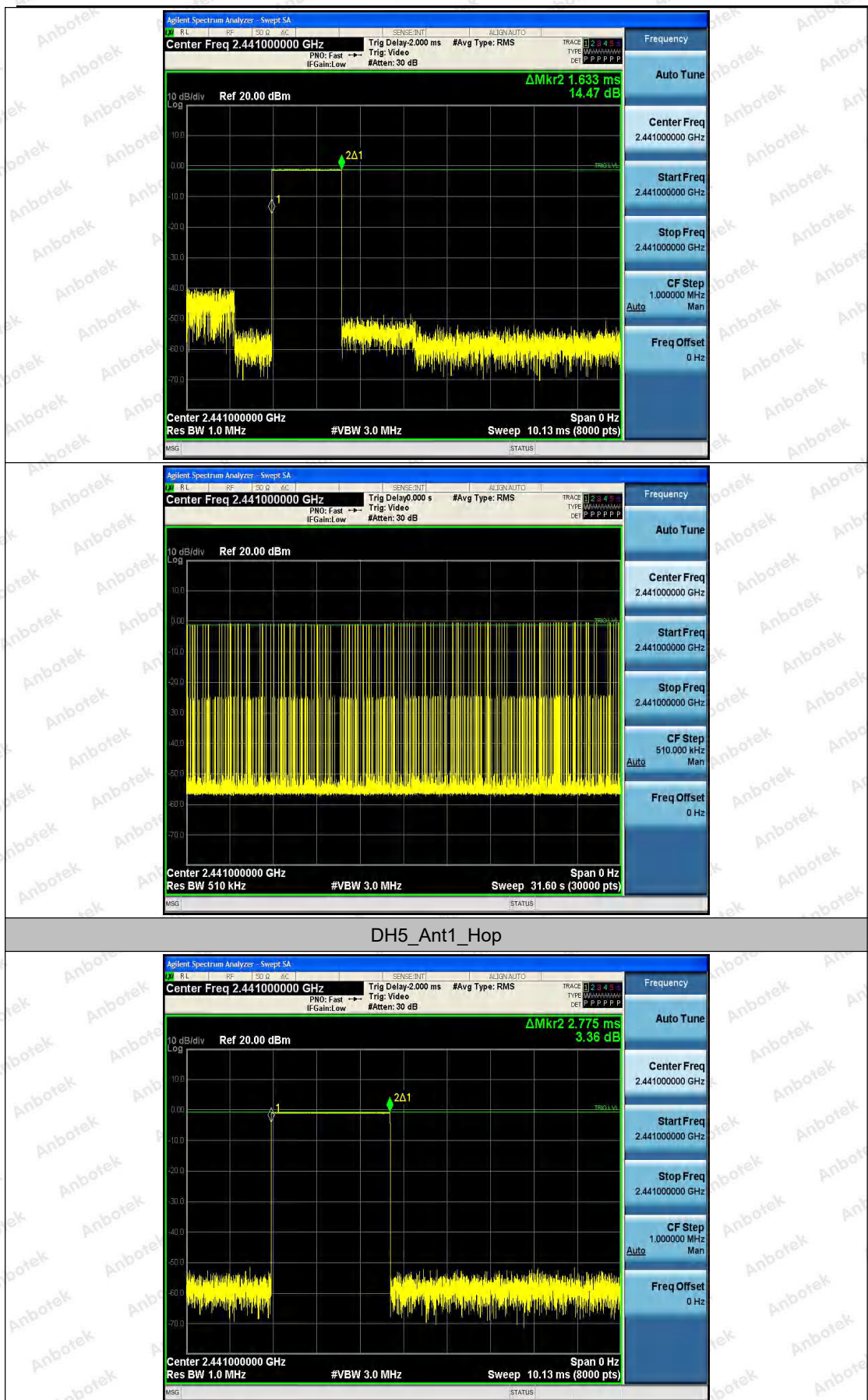
Appendix E: Time of occupancy

Test Result

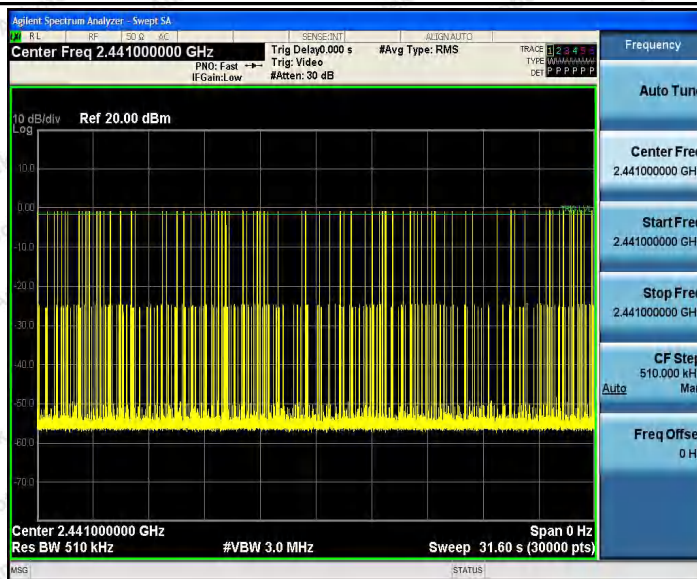
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.78	107	0.297	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.89	107	0.309	≤0.4	PASS

Test Graphs

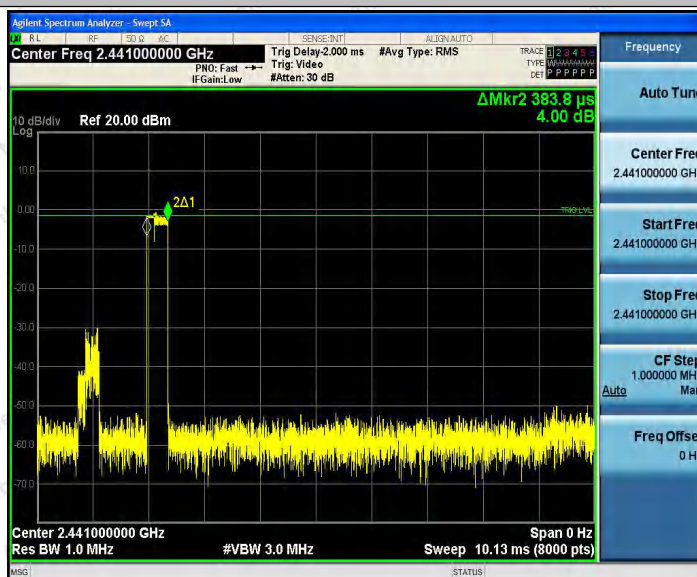




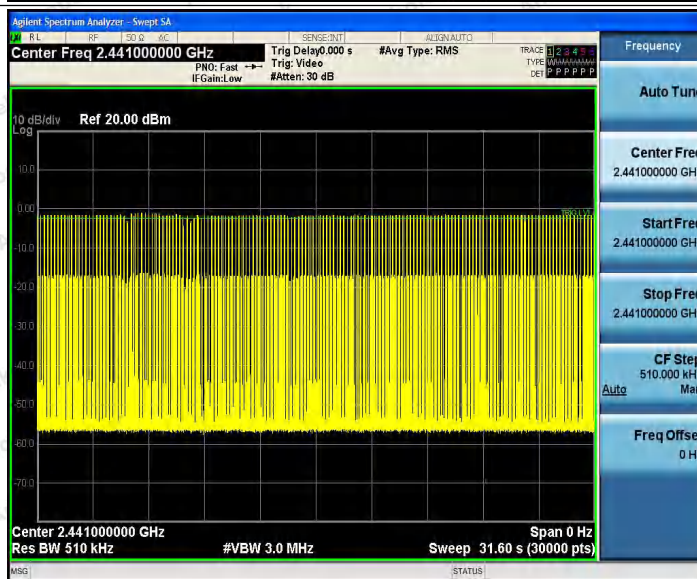
DH5_Ant1_Hop

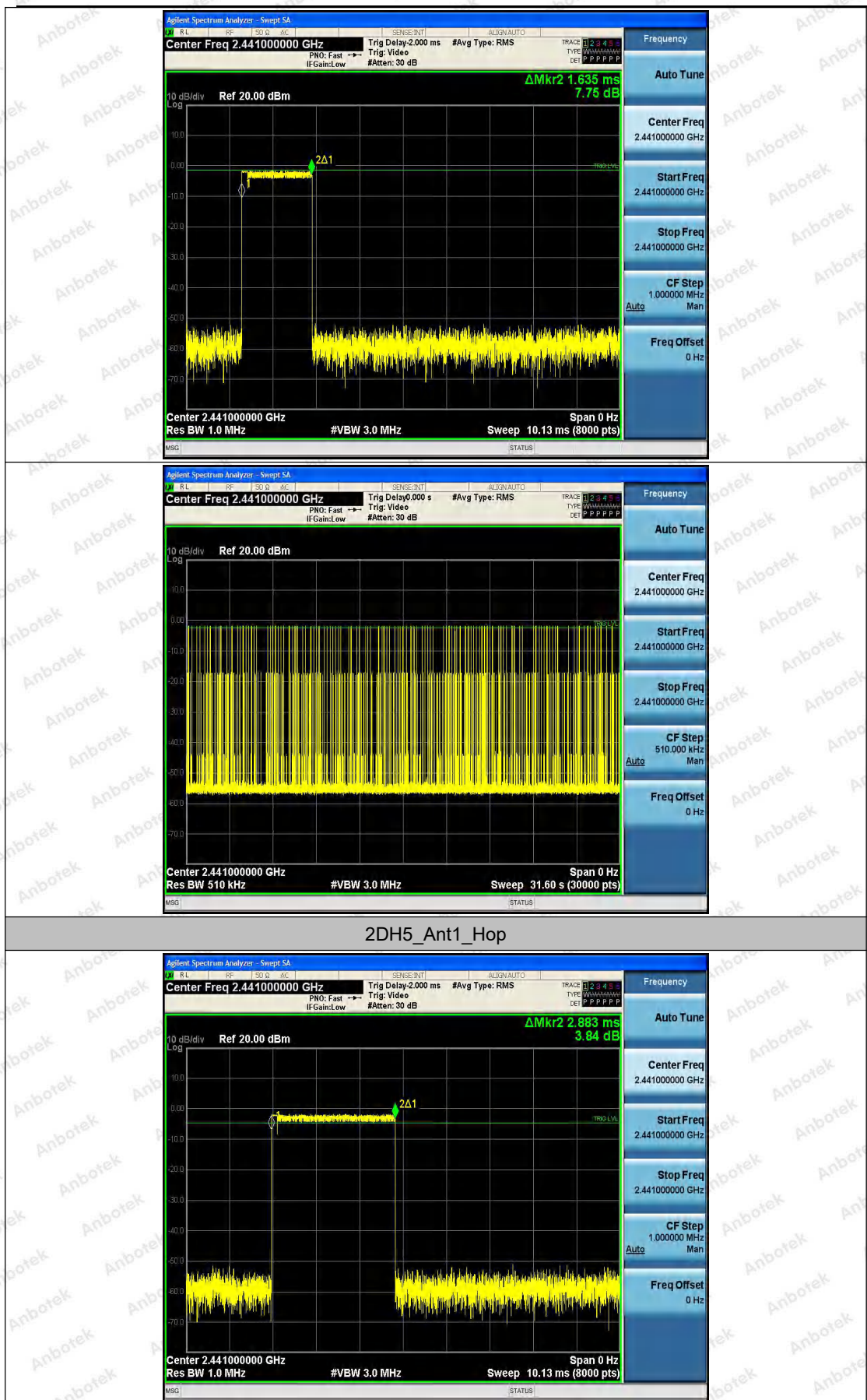


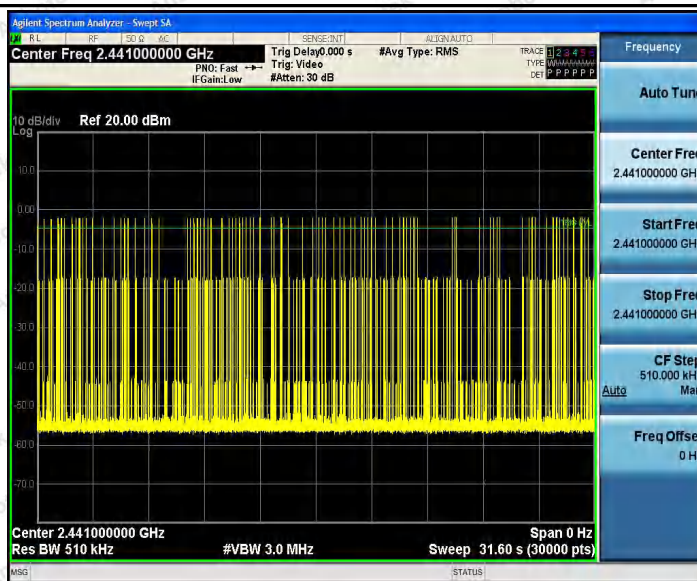
2DH1_Ant1_Hop



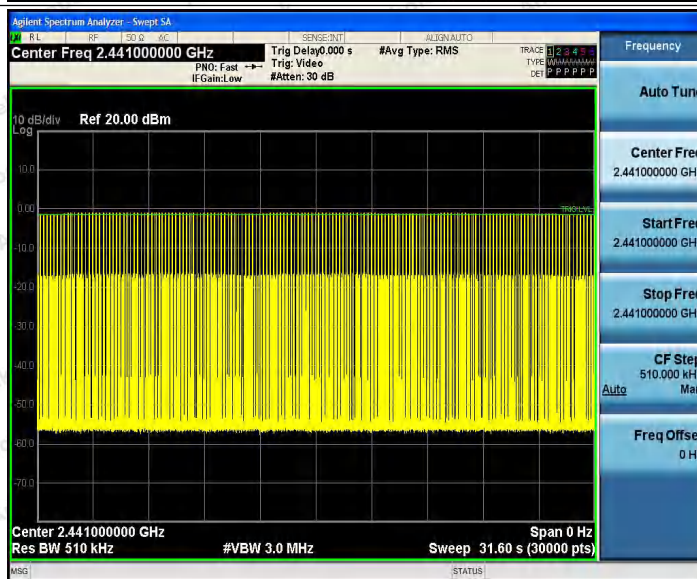
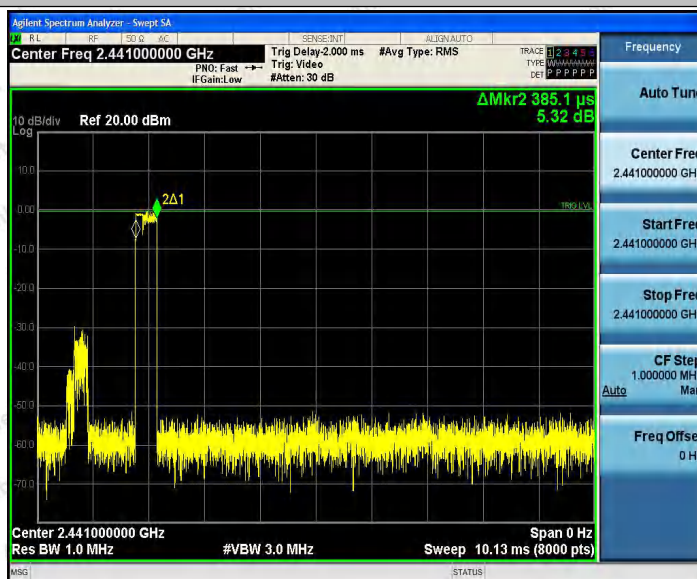
2DH3_Ant1_Hop







3DH1_Ant1_Hop



3DH3_Ant1_Hop

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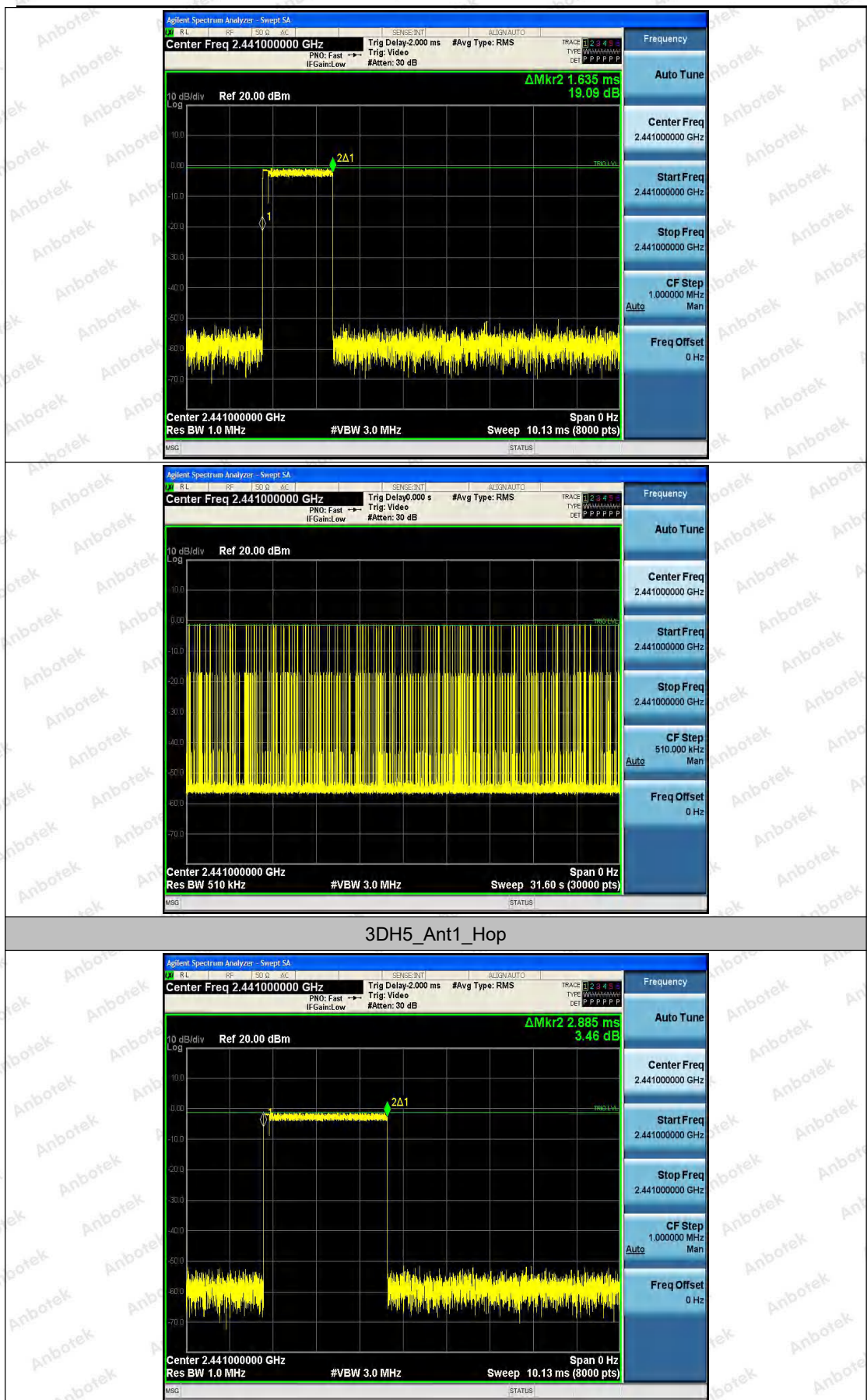
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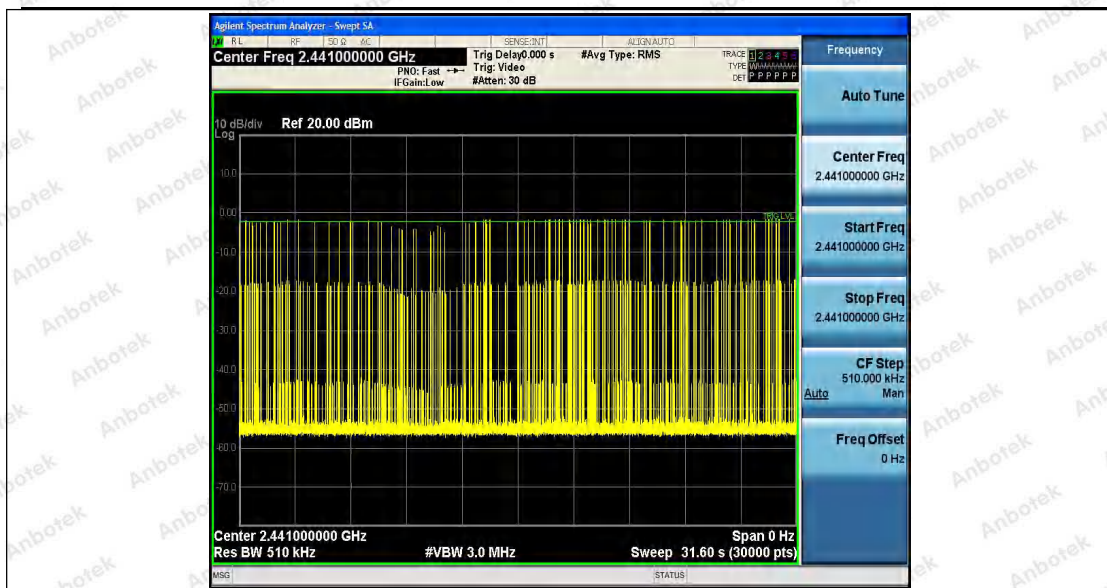
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3DH5_Ant1_Hop



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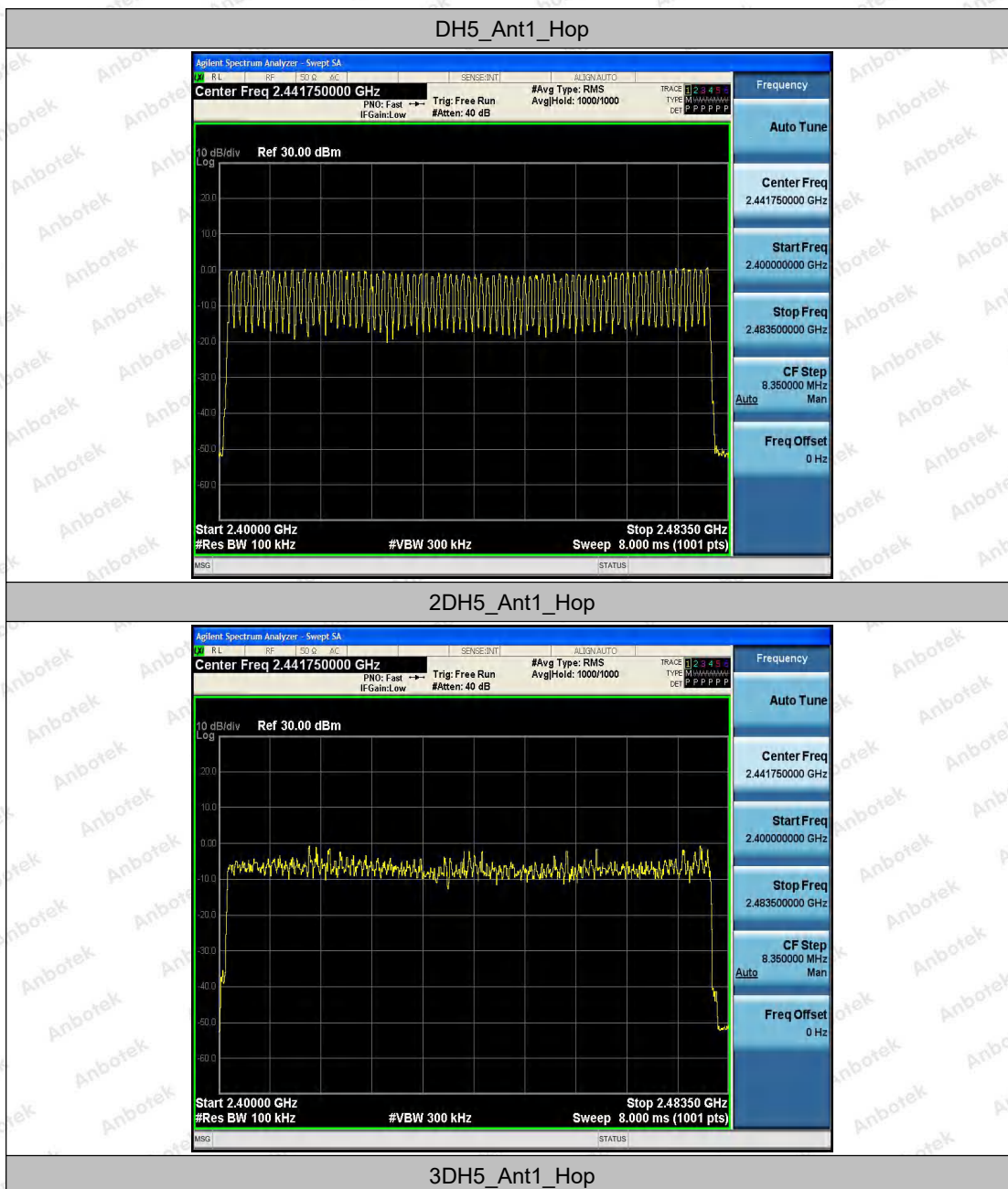
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Appendix F: Number of hopping channels

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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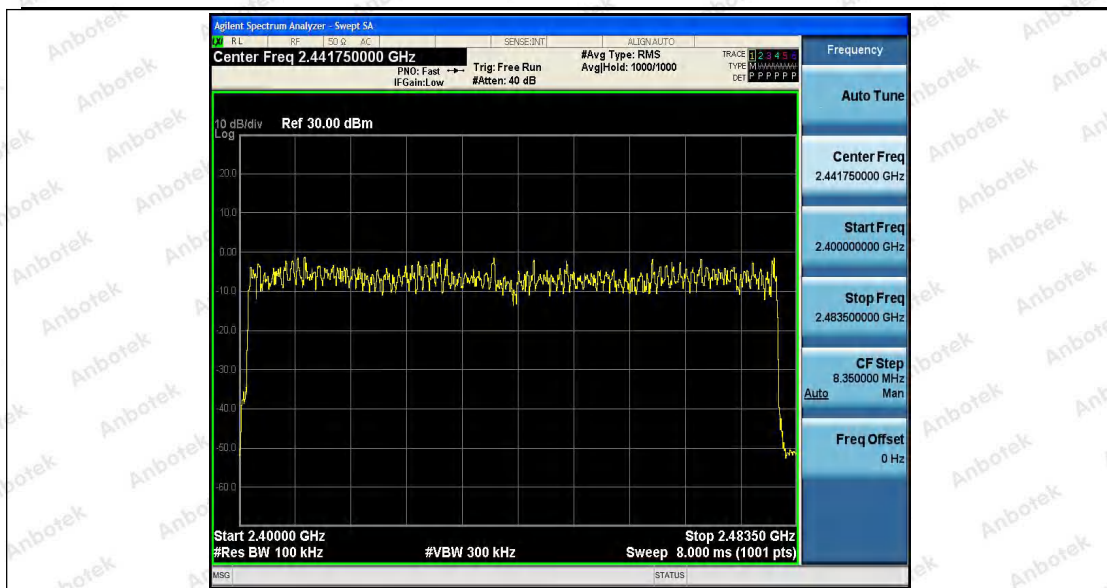
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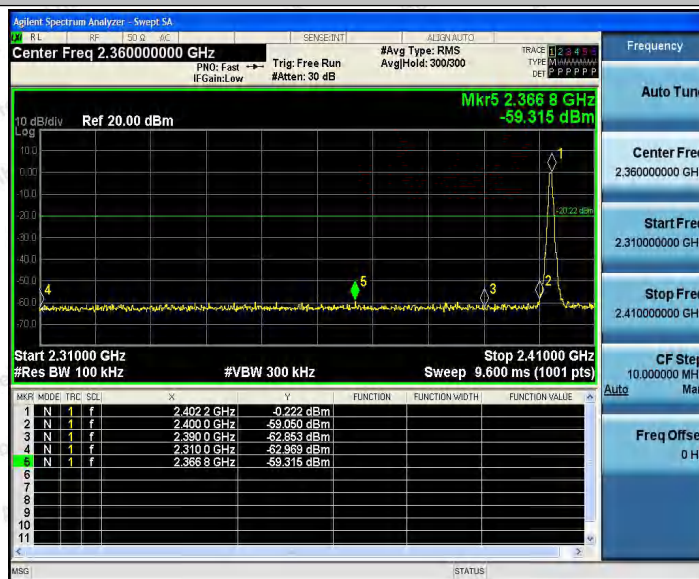
Appendix G: Band edge measurements

Test Result

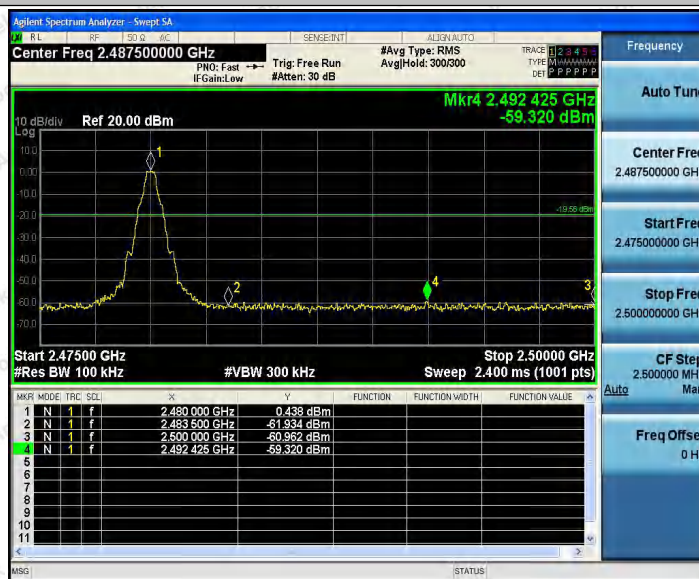
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.22	-59.32	≤-20.22	PASS
		High	2480	0.44	-59.32	≤-19.56	PASS
		Low	Hop	-0.09	-59.28	≤-20.09	PASS
		High	Hop	0.33	-62.97	≤-19.67	PASS
2DH5	Ant1	Low	2402	-2.06	-56.21	≤-22.06	PASS
		High	2480	-1.83	-59.4	≤-21.83	PASS
		Low	Hop	-4.07	-59.4	≤-24.07	PASS
		High	Hop	-2.84	-61.67	≤-22.84	PASS
3DH5	Ant1	Low	2402	-3.31	-58.09	≤-23.31	PASS
		High	2480	-0.84	-59.37	≤-20.84	PASS
		Low	Hop	-3.87	-59.25	≤-23.87	PASS
		High	Hop	-7.06	-62.1	≤-27.06	PASS

Test Graphs

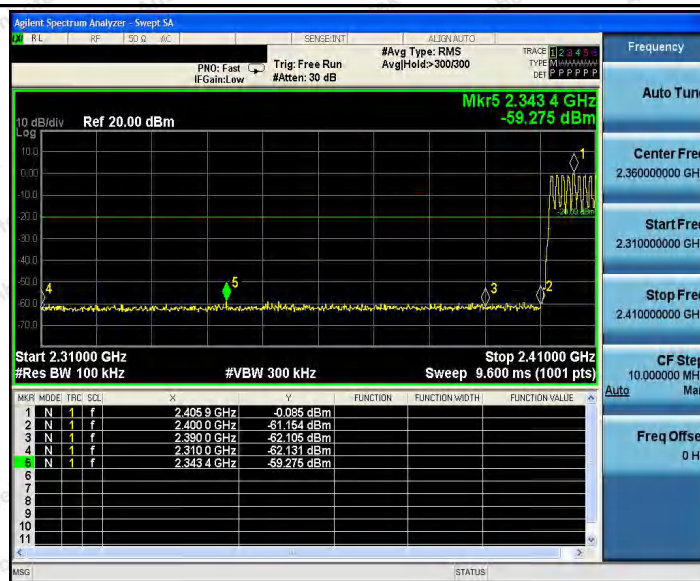
DH5_Ant1_Low_2402



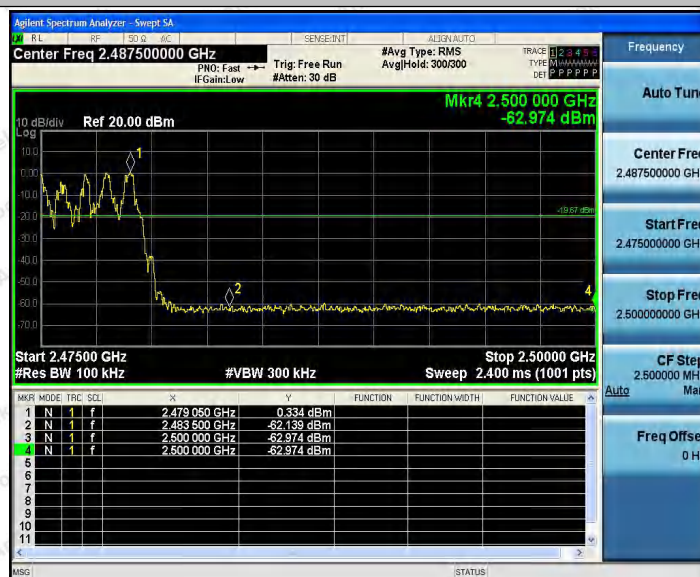
DH5_Ant1_High_2480



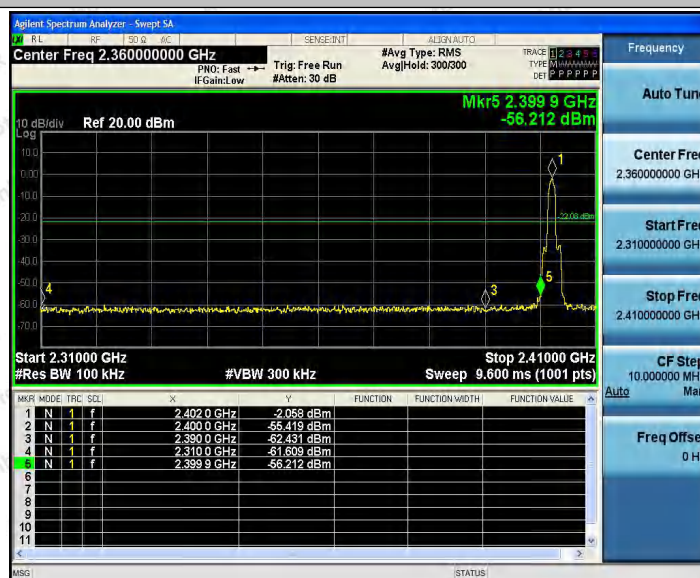
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



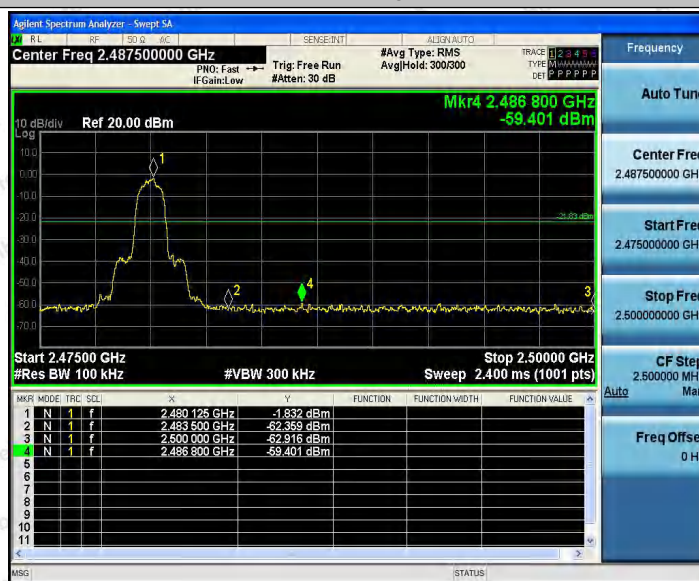
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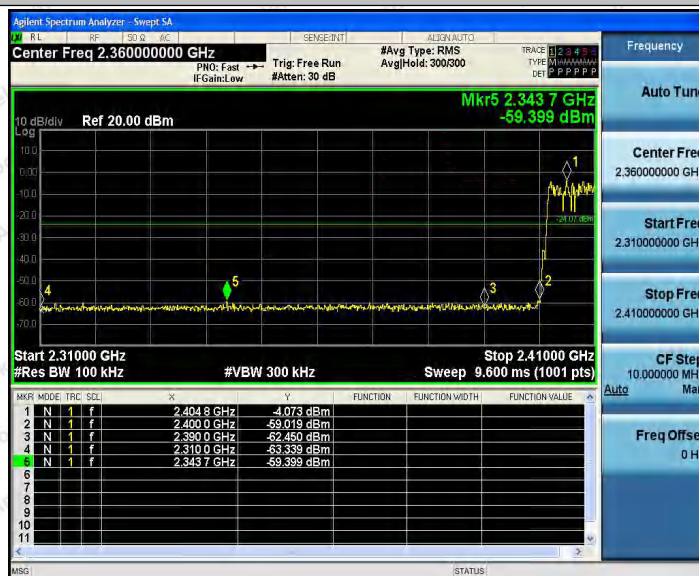
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



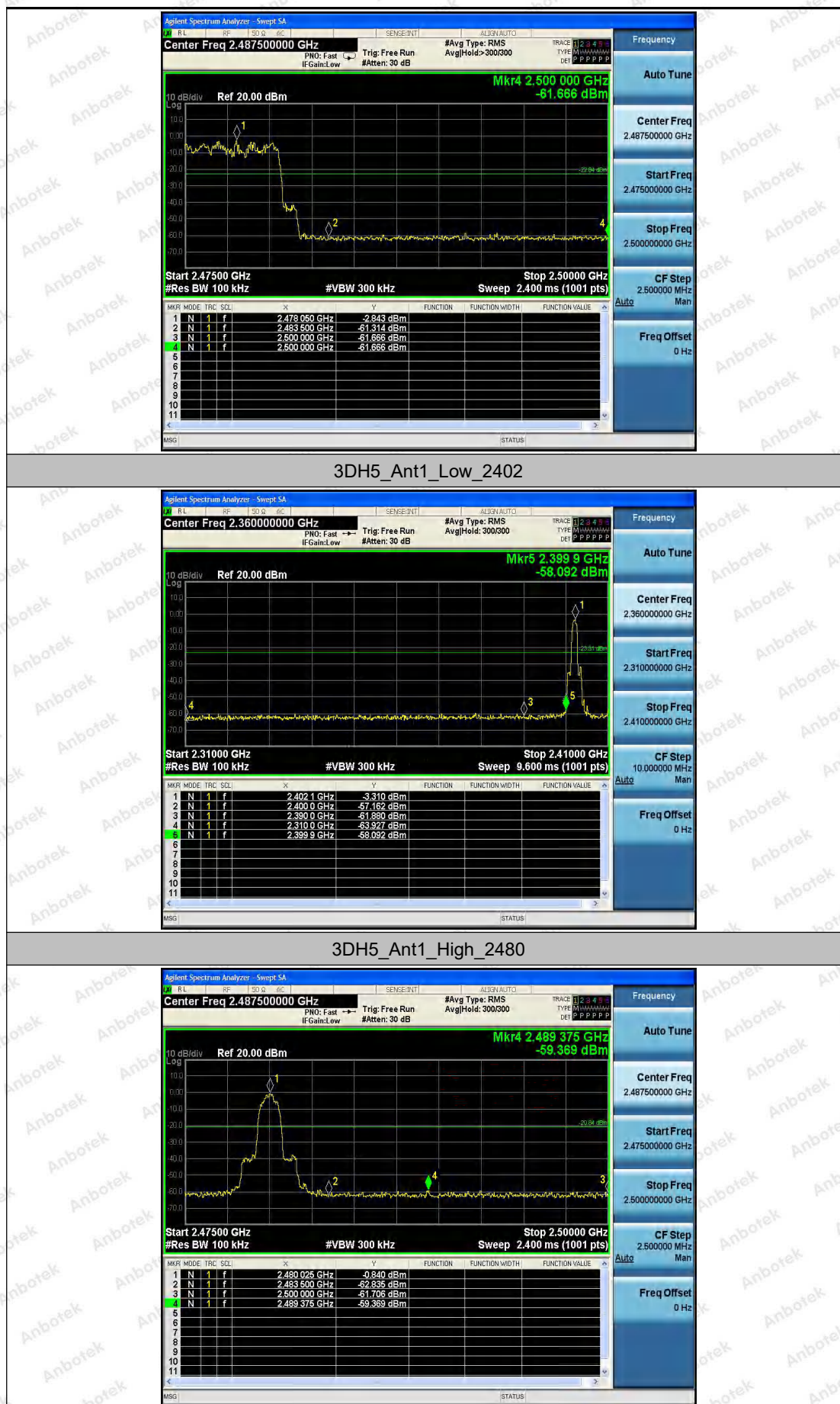
2DH5_Ant1_High_Hop

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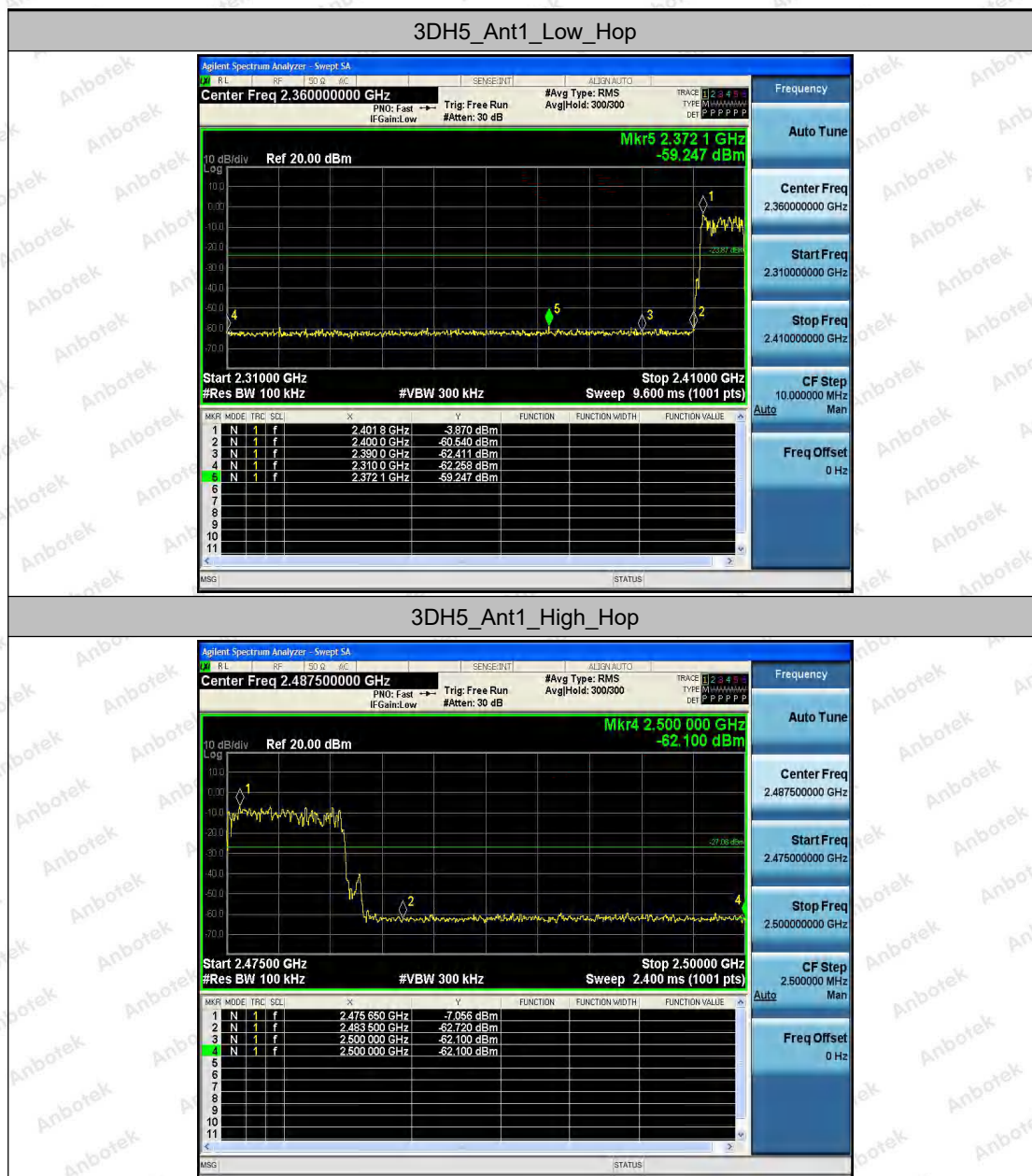


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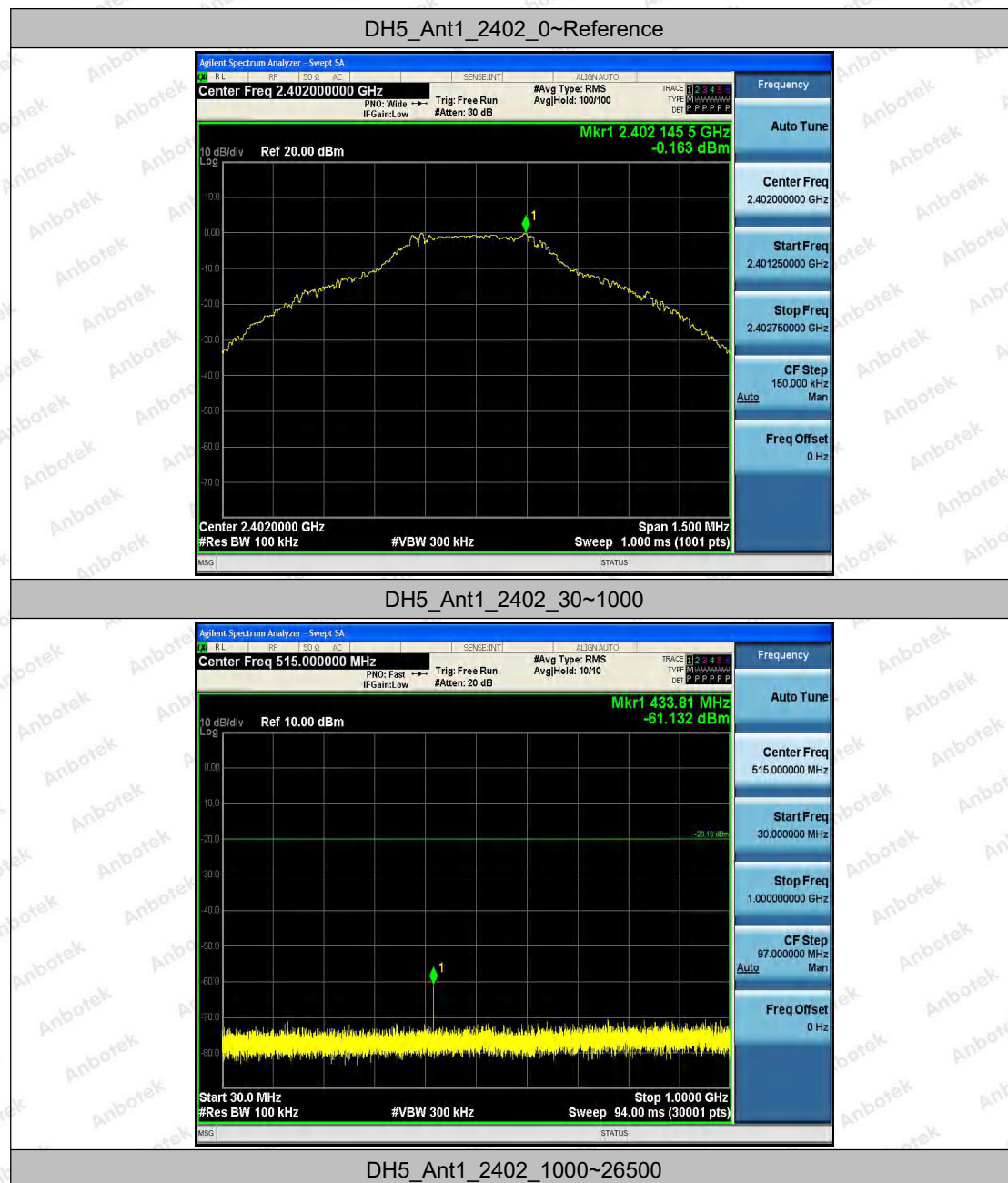
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-61.13	≤-20.16	PASS
			1000~26500	-0.16	-43.67	≤-20.16	PASS
		2441	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-64.95	≤-21.11	PASS
			1000~26500	-1.11	-43.67	≤-21.11	PASS
		2480	Reference	0.52	0.52	---	PASS
			30~1000	0.52	-45.61	≤-19.48	PASS
			1000~26500	0.52	-49.58	≤-19.48	PASS
2DH5	Ant1	2402	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-69.66	≤-20.93	PASS
			1000~26500	-0.93	-45.31	≤-20.93	PASS
		2441	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-69.42	≤-24.77	PASS
			1000~26500	-4.77	-49.68	≤-24.77	PASS
		2480	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-68.97	≤-21.33	PASS
			1000~26500	-1.33	-50.48	≤-21.33	PASS
3DH5	Ant1	2402	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-47.15	≤-22.28	PASS
			1000~26500	-2.28	-46.38	≤-22.28	PASS
		2441	Reference	-2.43	-2.43	---	PASS
			30~1000	-2.43	-60.6	≤-22.43	PASS
			1000~26500	-2.43	-50.75	≤-22.43	PASS
		2480	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-61.34	≤-21.64	PASS
			1000~26500	-1.64	-55.06	≤-21.64	PASS

Test Graphs

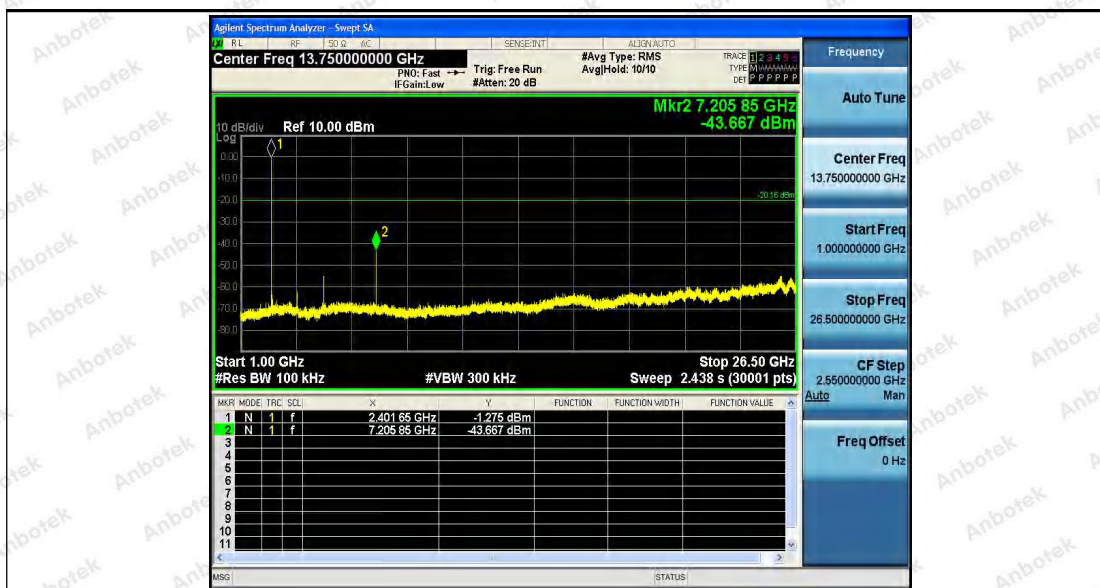


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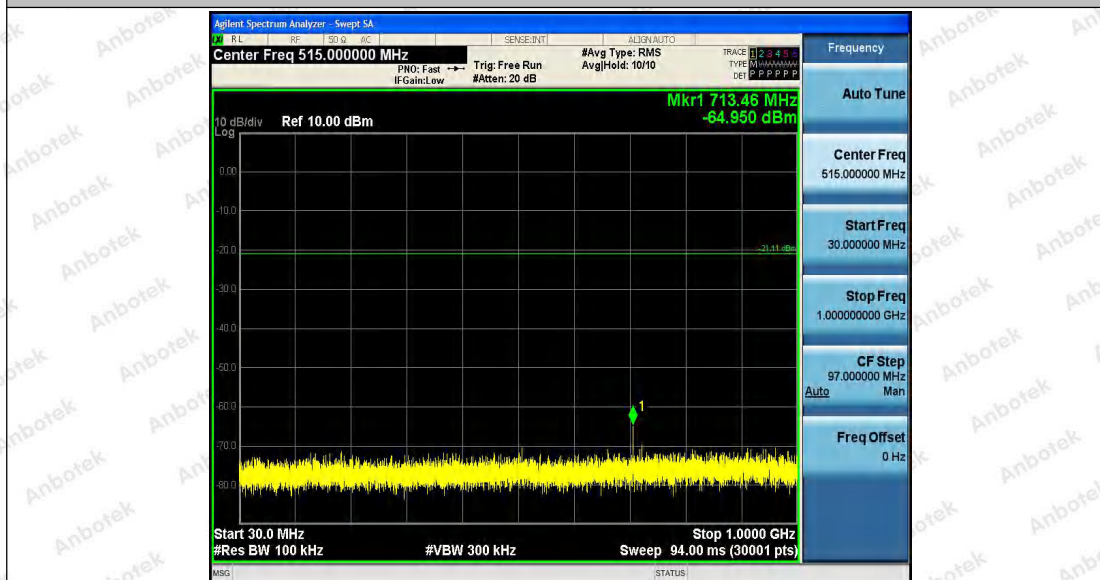
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



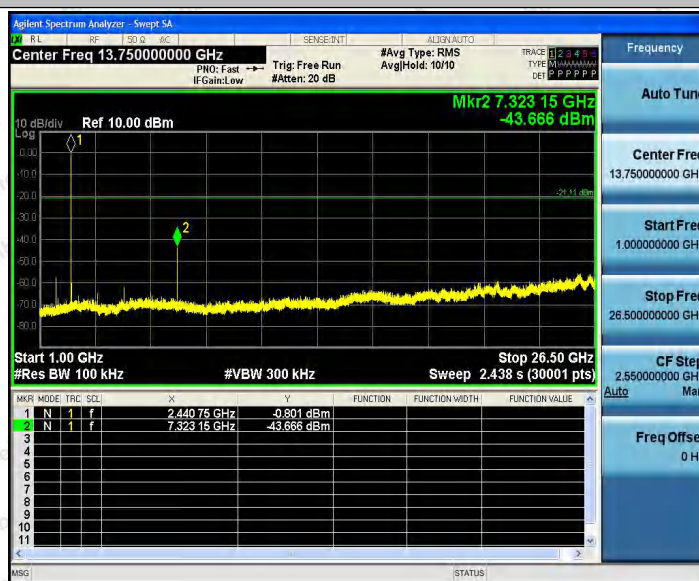
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



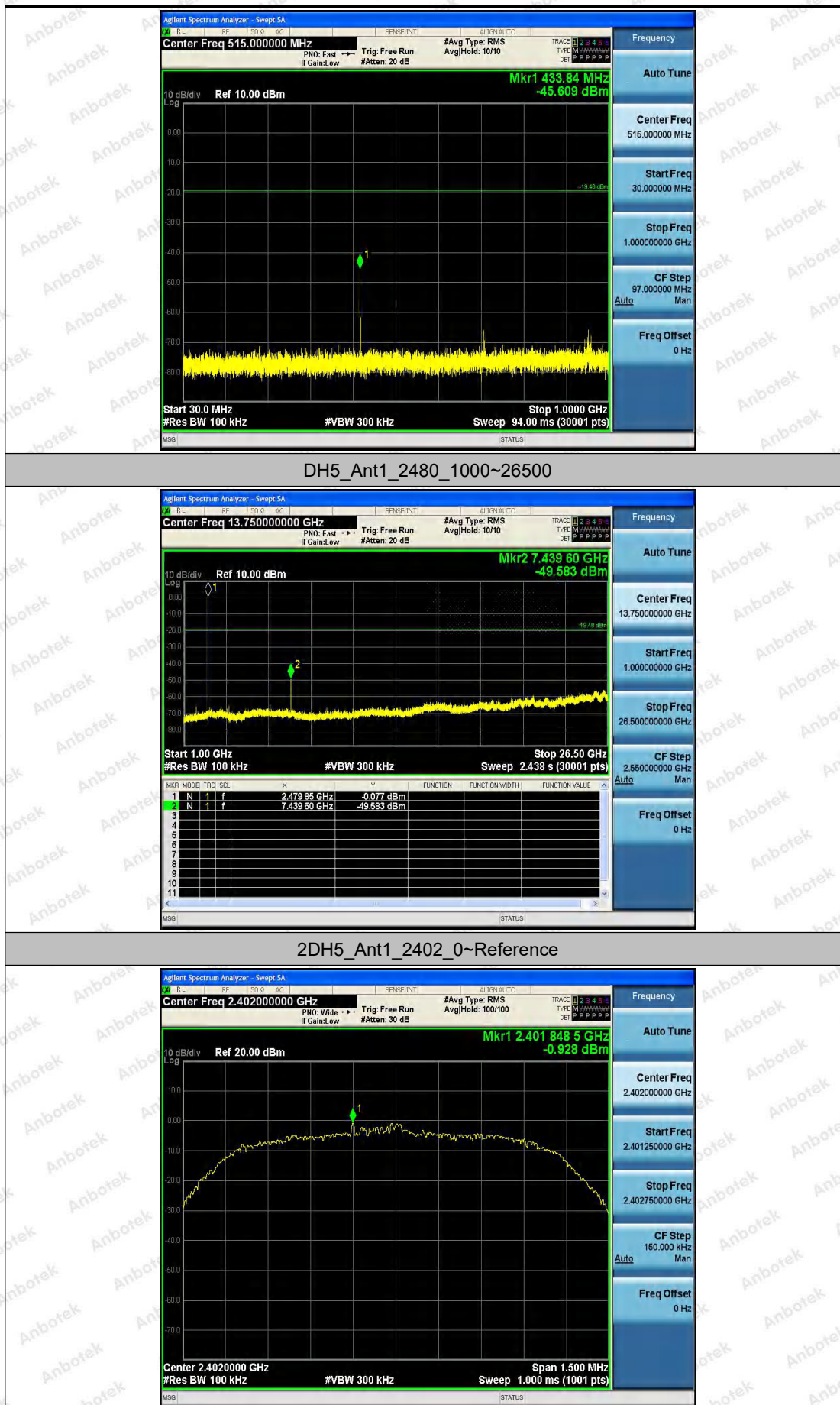
DH5_Ant1_2480_30~1000

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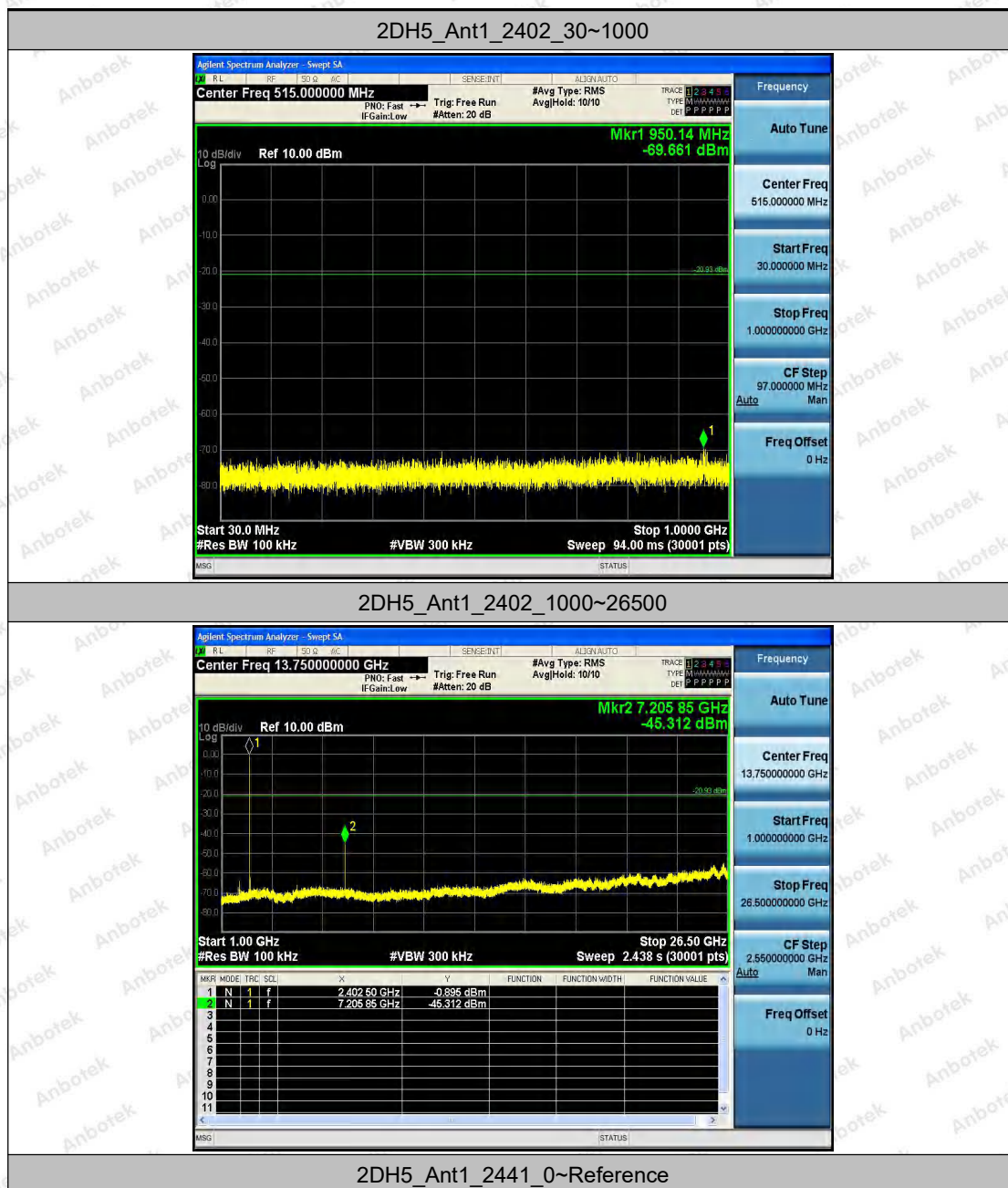


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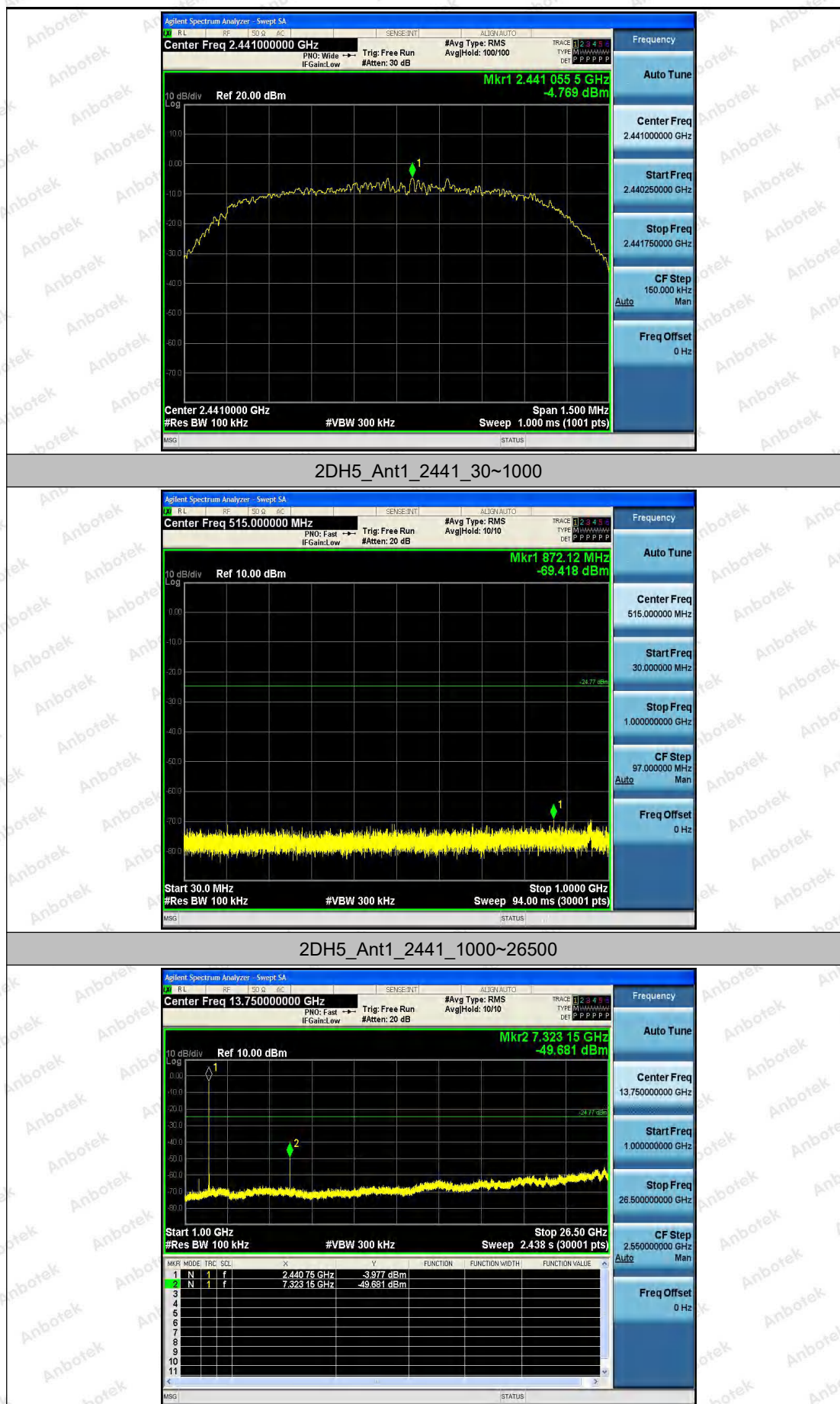


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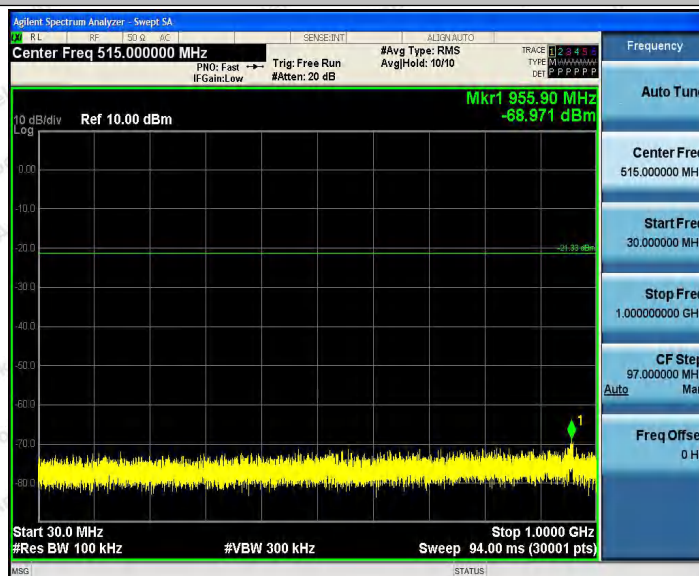
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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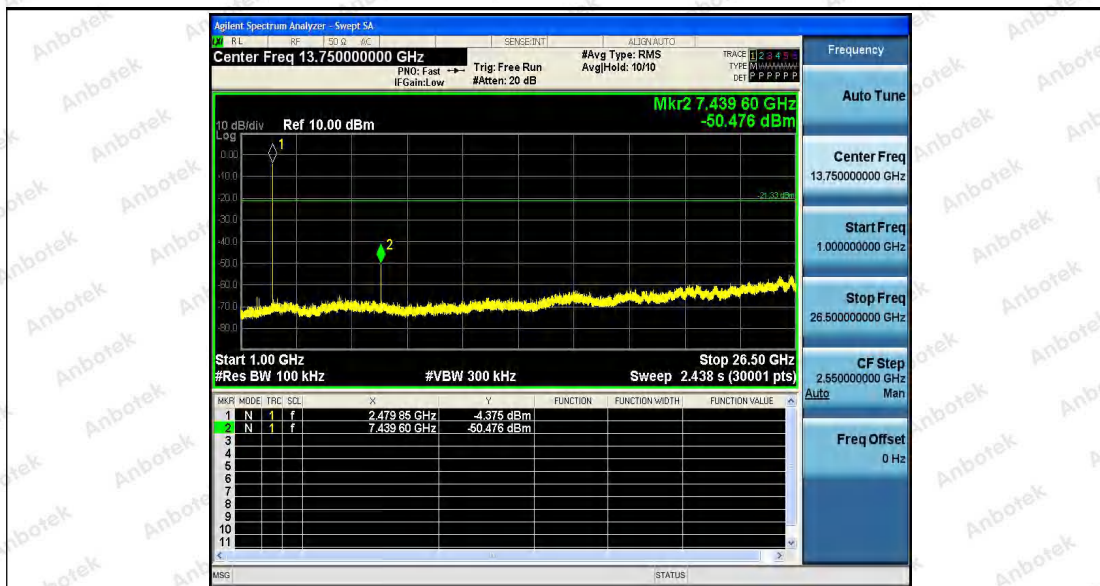
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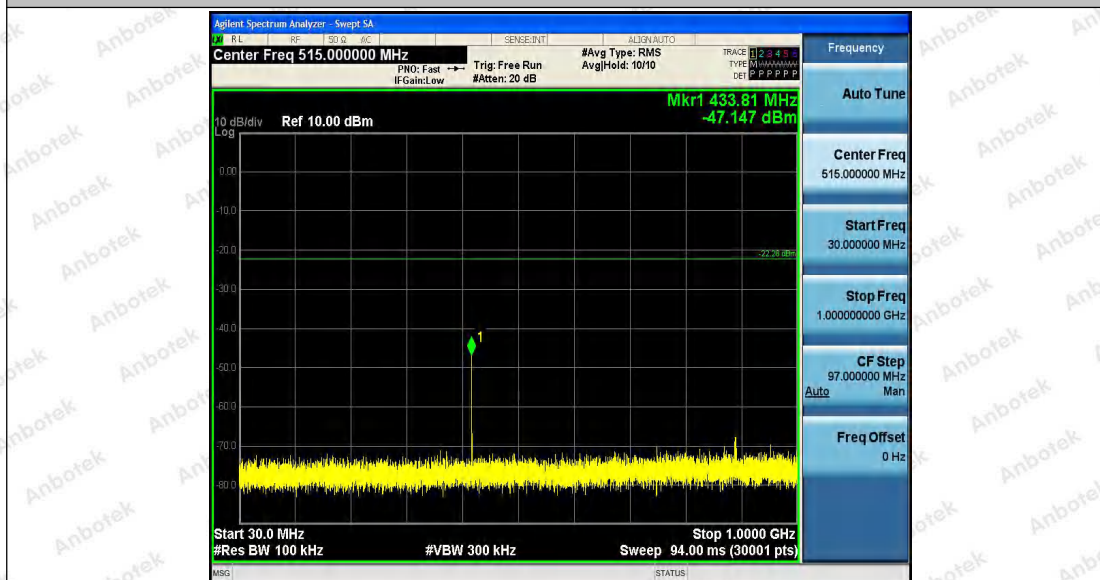
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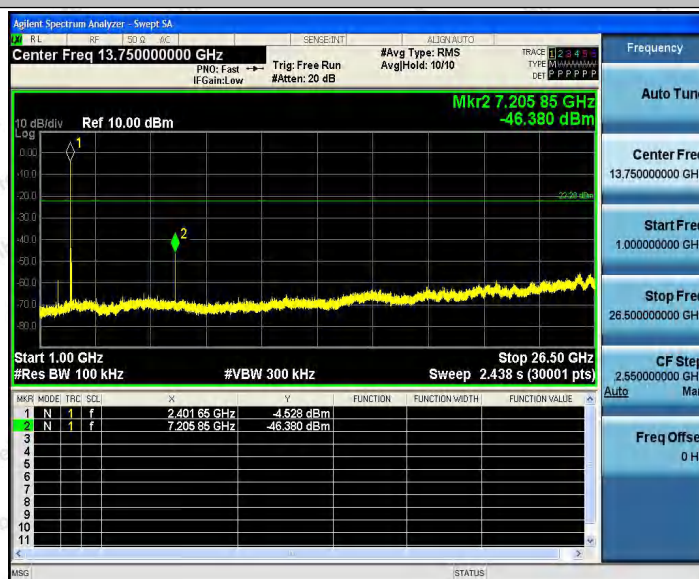
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



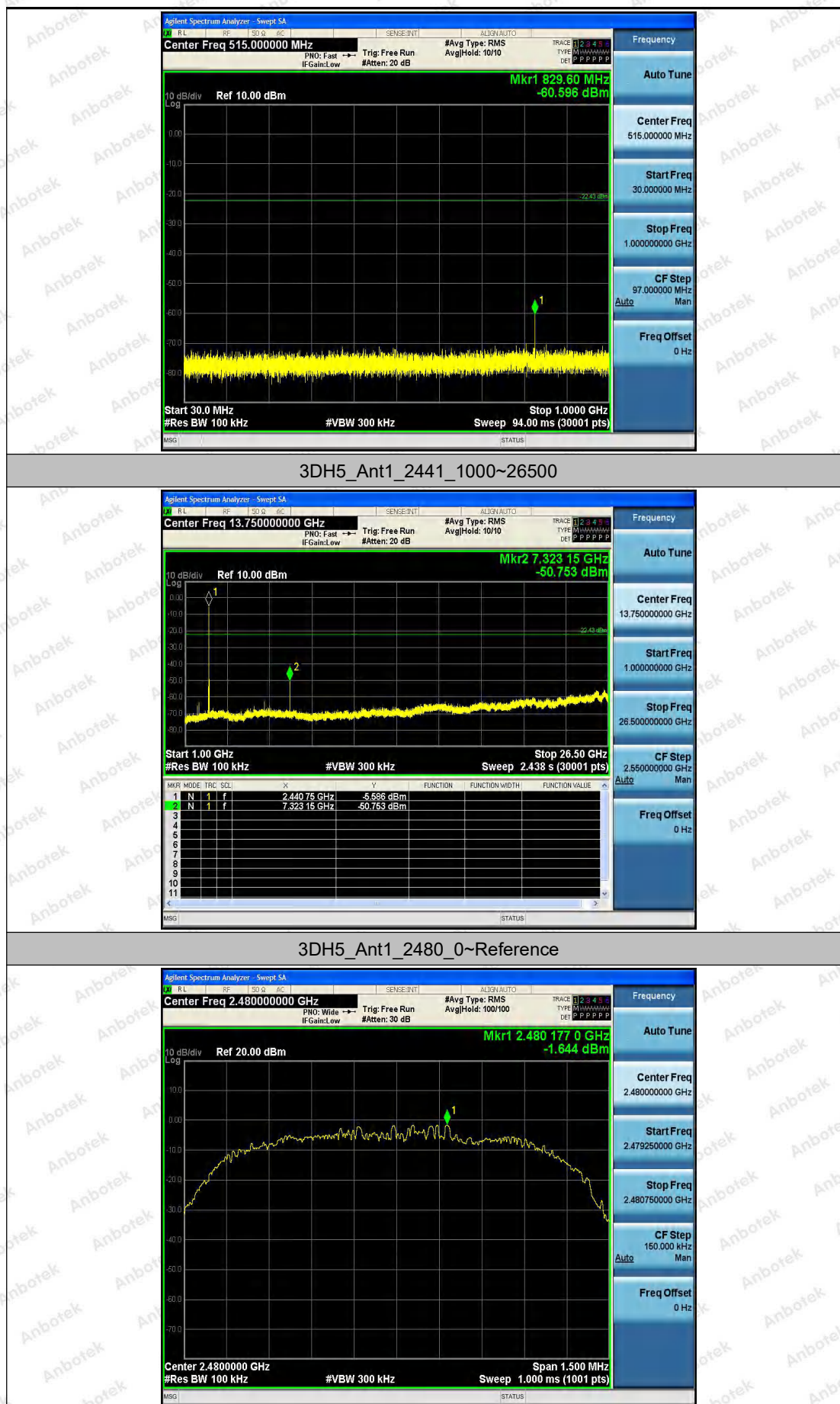
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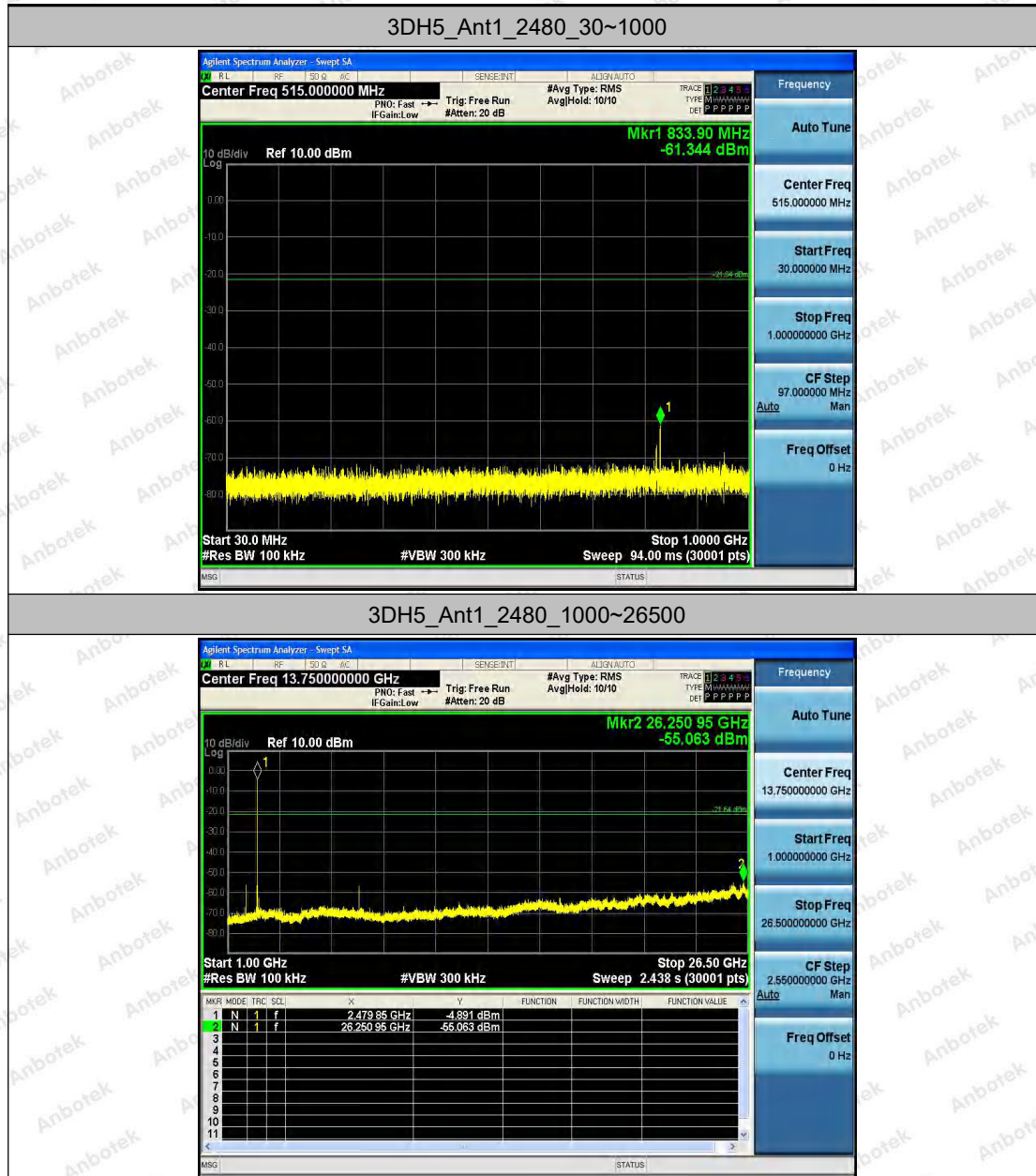


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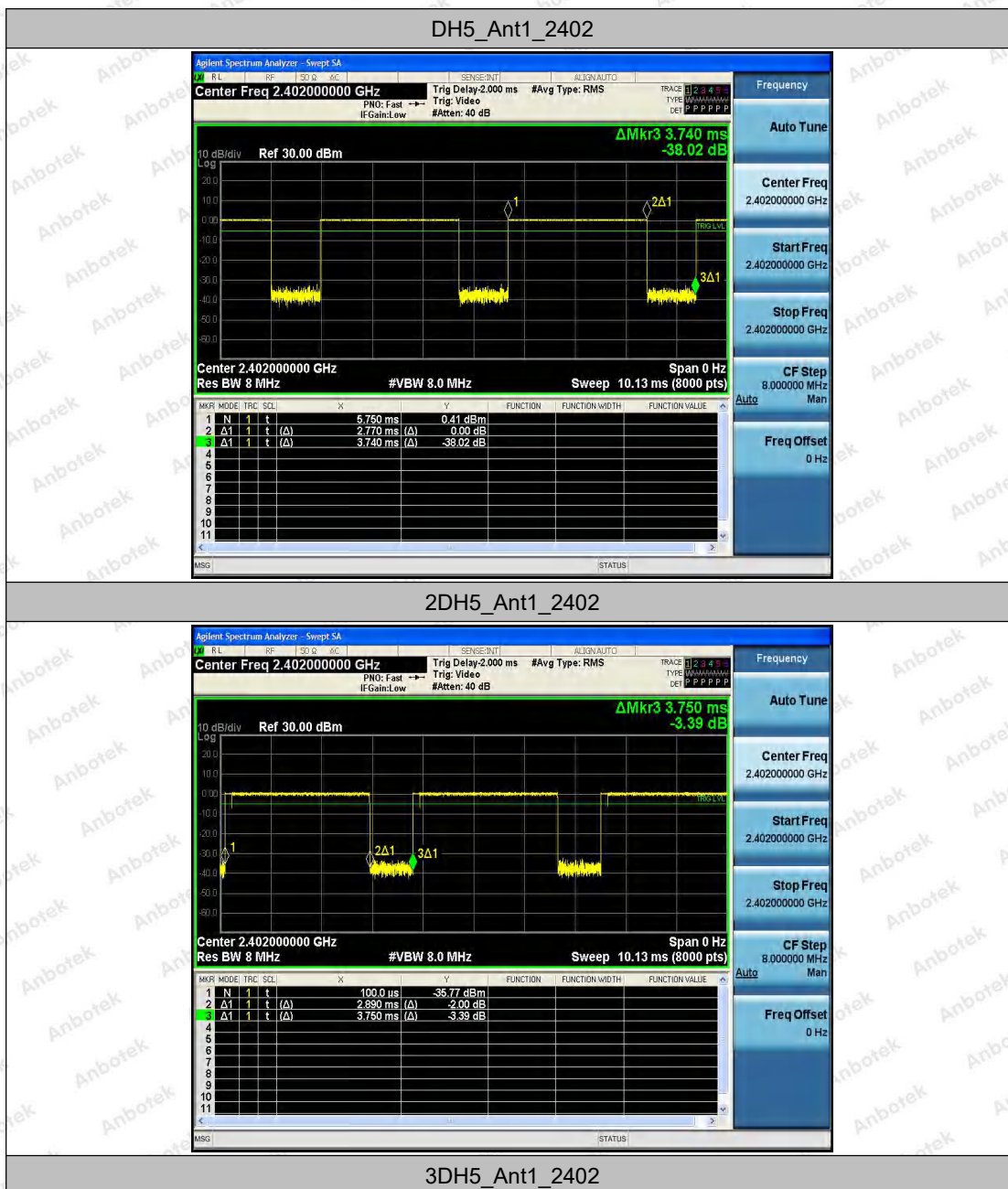
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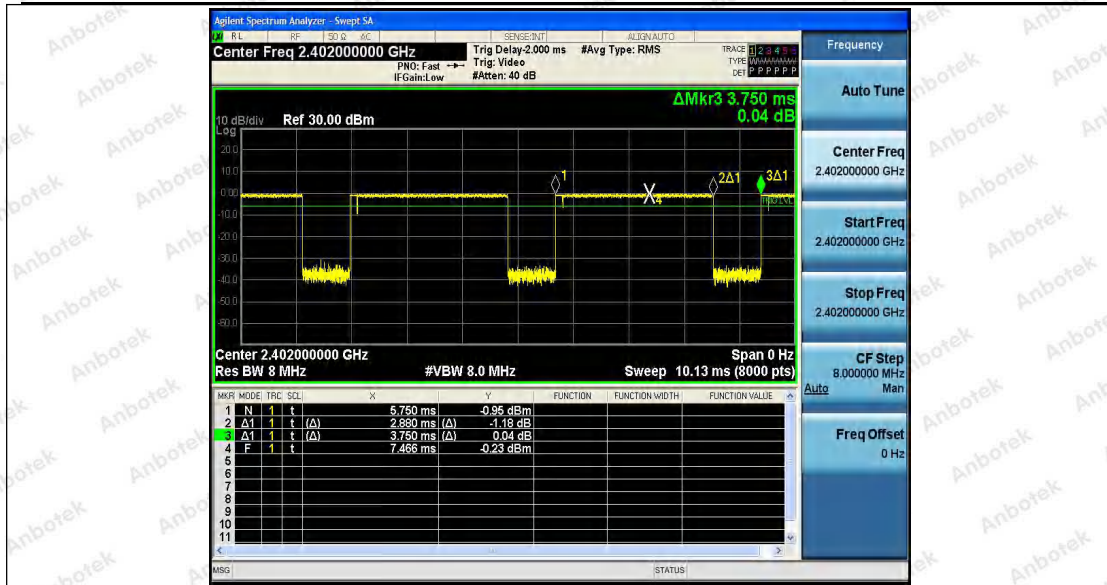
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.77	3.74	0.7406	74.06	1.30	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---