

Appendix Test Data

Report No.:	18220WC20025701	Test Sample No.:	1-2-2
Start Test Date:	2022.2.21	Finish Test Date:	2022.2.23
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56 %
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	0.942	2401.541	2402.483	---	PASS
		2441	0.945	2440.541	2441.486	---	PASS
		2480	0.945	2479.541	2480.486	---	PASS
2DH5	Ant1	2402	1.266	2401.367	2402.633	---	PASS
		2441	1.320	2440.340	2441.660	---	PASS
		2480	1.269	2479.367	2480.636	---	PASS
3DH5	Ant1	2402	1.329	2401.331	2402.660	---	PASS
		2441	1.275	2440.352	2441.627	---	PASS
		2480	1.308	2479.346	2480.654	---	PASS

Test Graphs

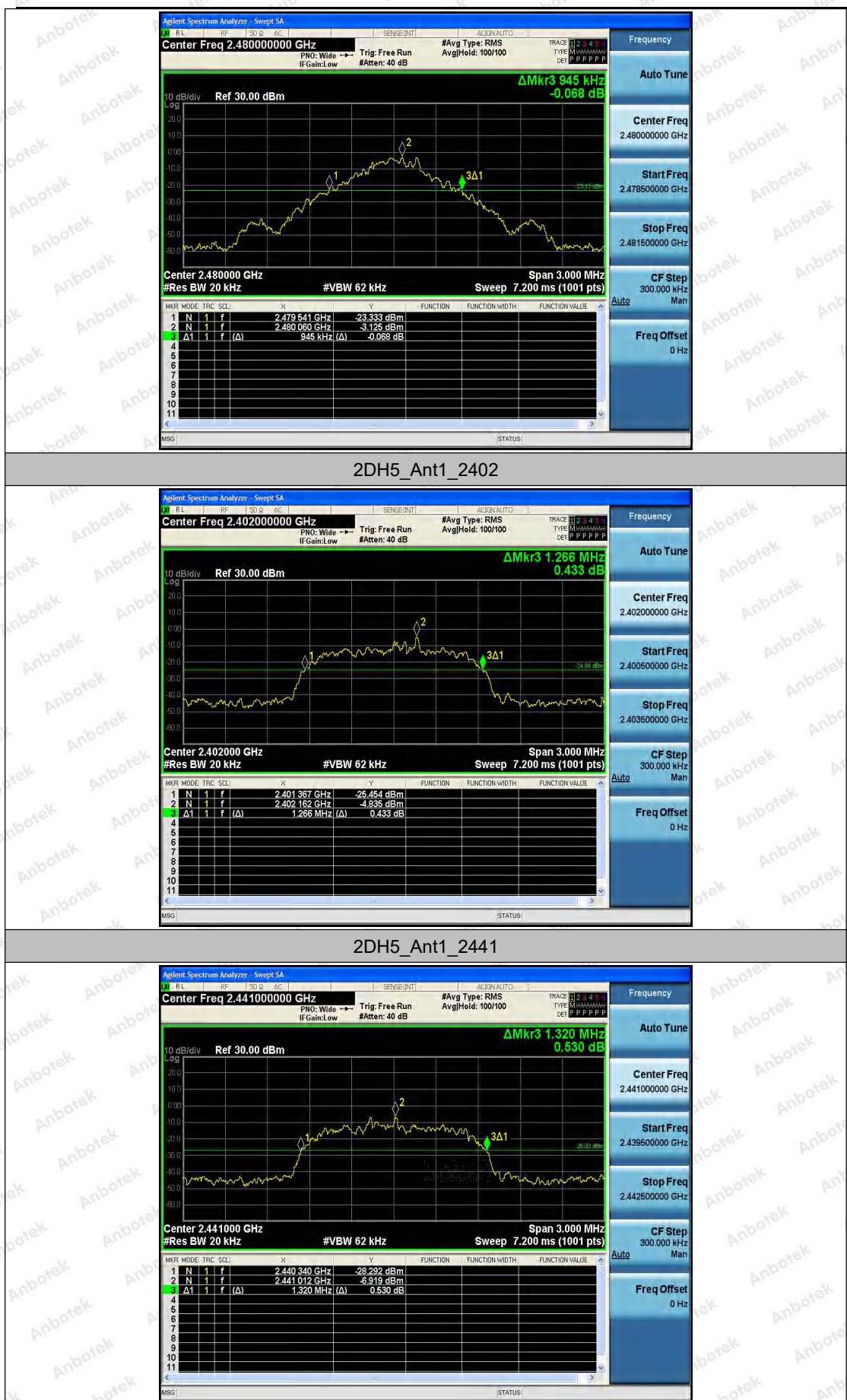
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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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	0.88463	2401.55 9	2402.444	---	PASS
		2441	0.89163	2440.55 5	2441.447	---	PASS
		2480	0.89128	2479.55 8	2480.449	---	PASS
2DH5	Ant1	2402	1.1928	2401.40 5	2402.598	---	PASS
		2441	1.1971	2440.40 2	2441.599	---	PASS
		2480	1.1910	2479.40 6	2480.597	---	PASS
3DH5	Ant1	2402	1.2027	2401.39 2	2402.595	---	PASS
		2441	1.2092	2440.38 8	2441.597	---	PASS
		2480	1.2001	2479.39 4	2480.594	---	PASS

Test Graphs



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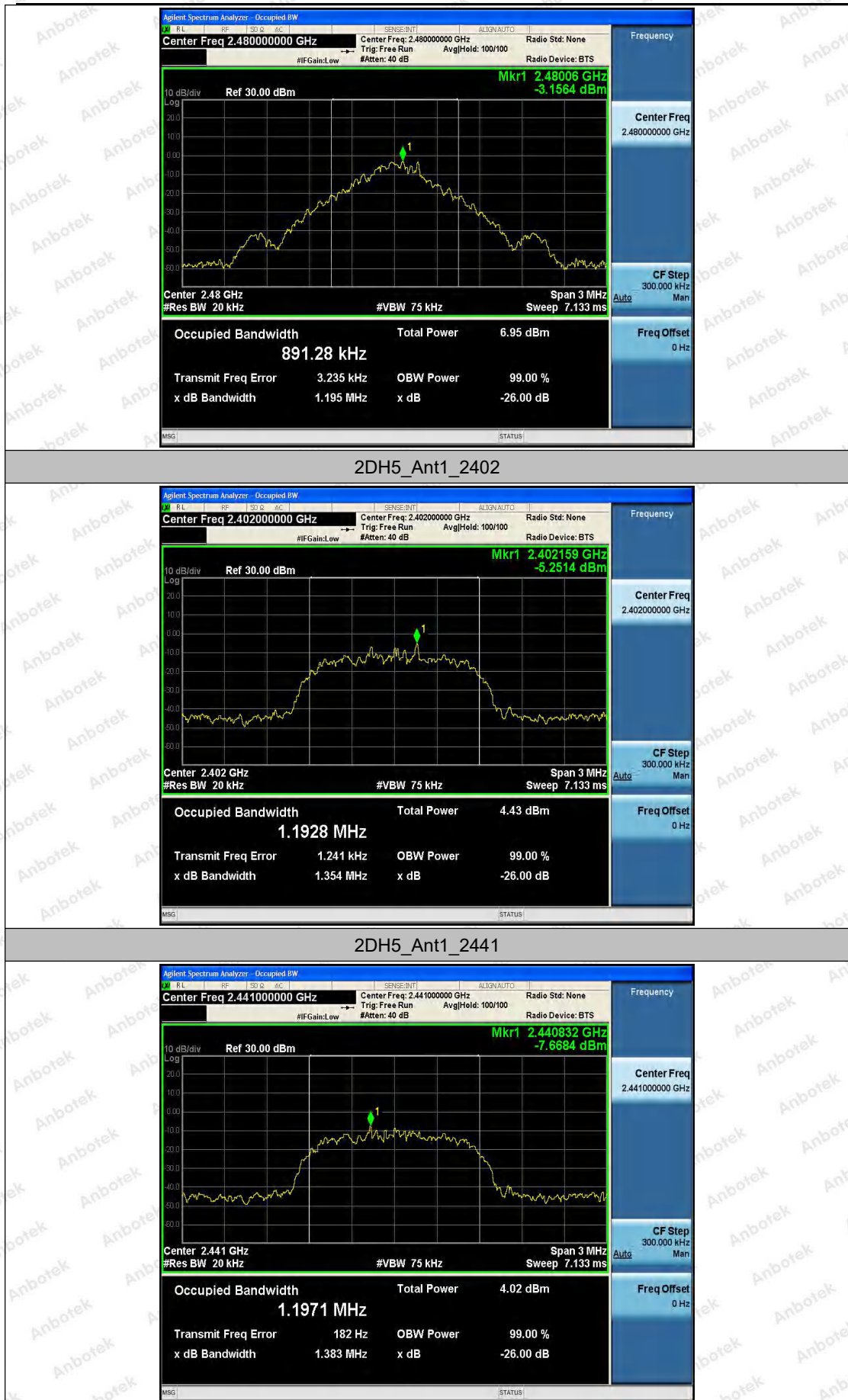
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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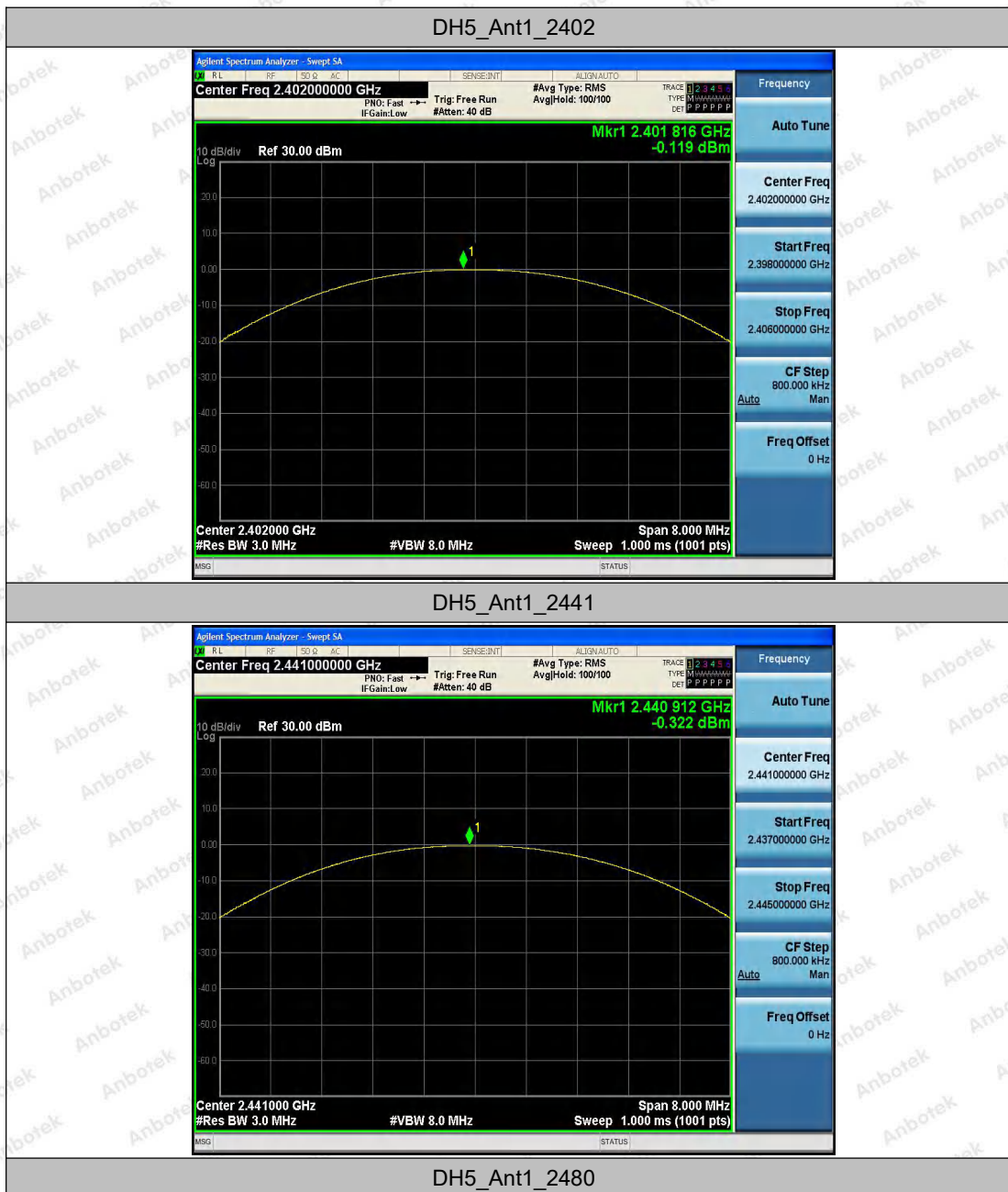


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.12	≤20.97	PASS
		2441	-0.32	≤20.97	PASS
		2480	0.43	≤20.97	PASS
2DH5	Ant1	2402	-0.77	≤20.97	PASS
		2441	-0.98	≤20.97	PASS
		2480	-0.24	≤20.97	PASS
3DH5	Ant1	2402	-0.77	≤20.97	PASS
		2441	-0.88	≤20.97	PASS
		2480	0.06	≤20.97	PASS

Test Graphs

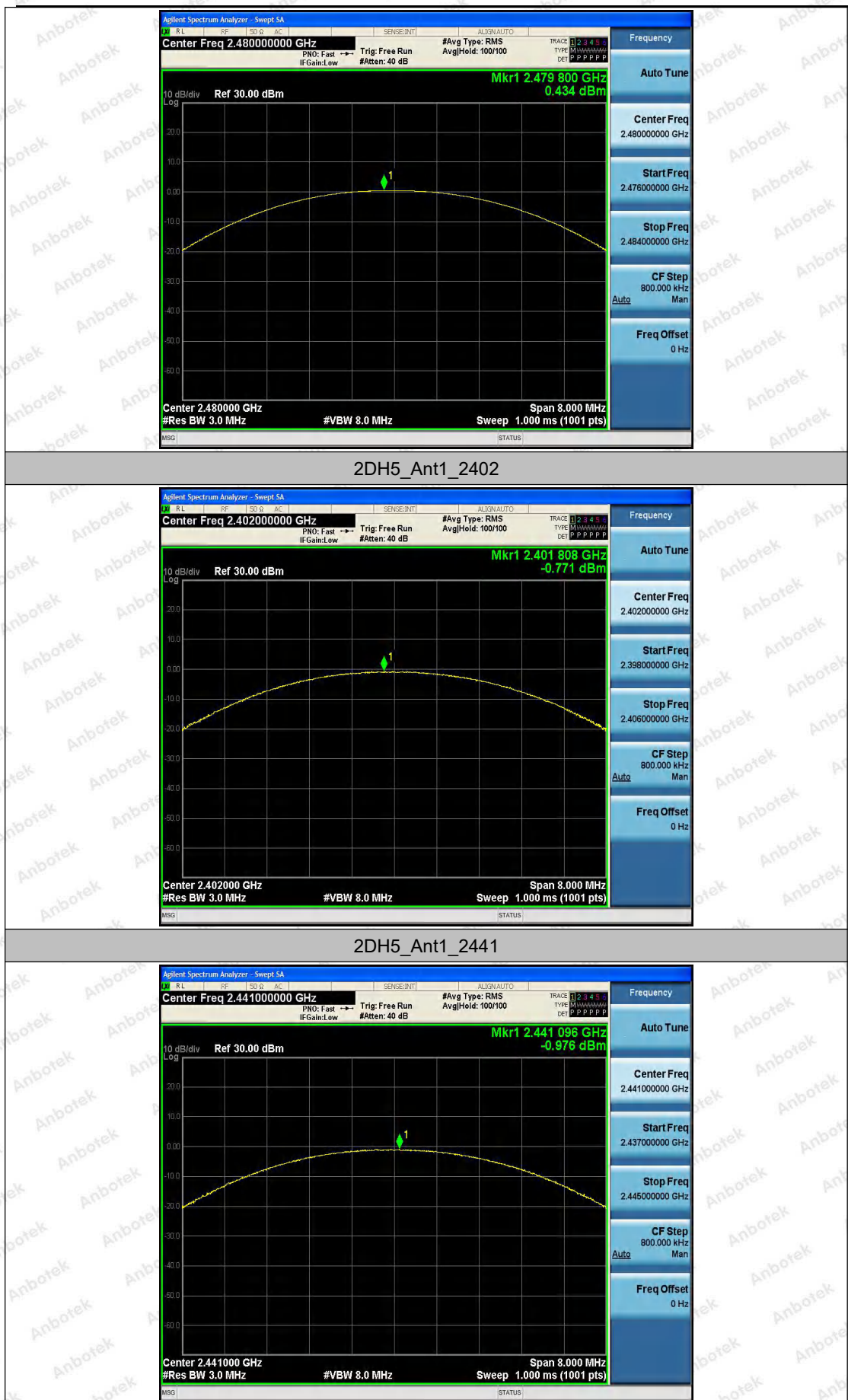


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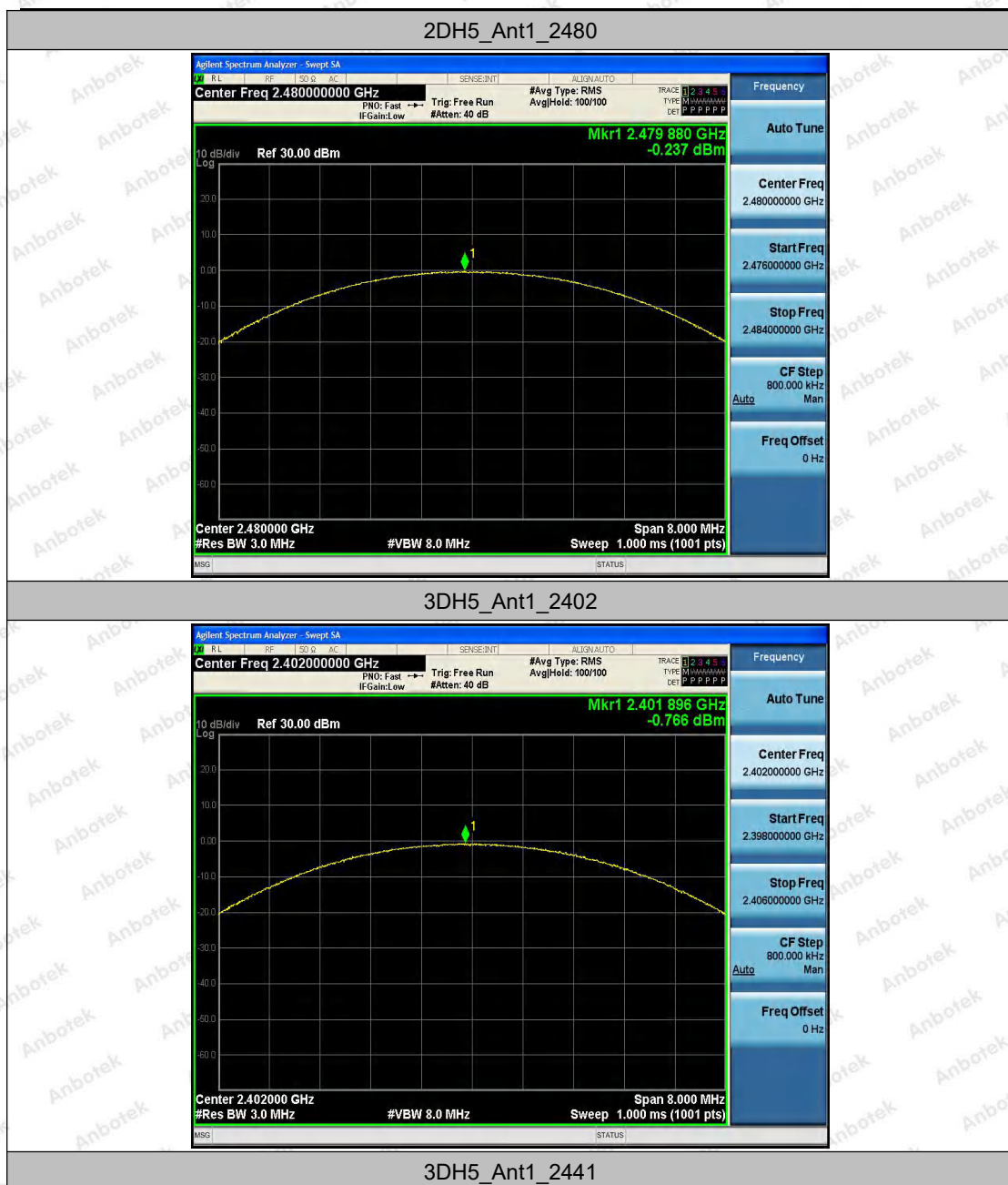


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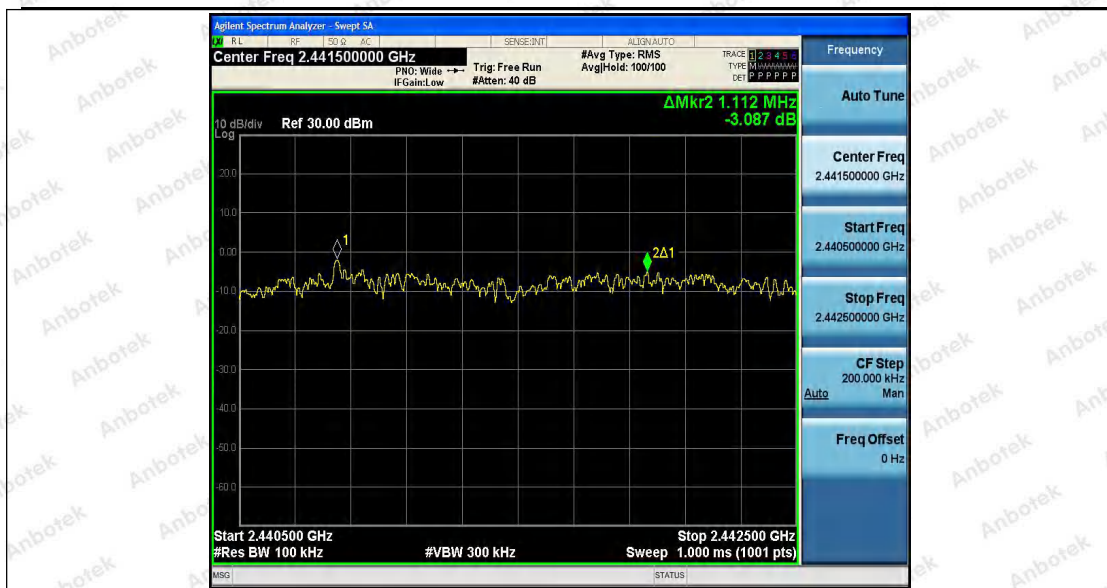
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.946	≥ 0.945	PASS
2DH5	Ant1	Hop	0.988	≥ 0.880	PASS
3DH5	Ant1	Hop	1.112	≥ 0.886	PASS

Test Graphs





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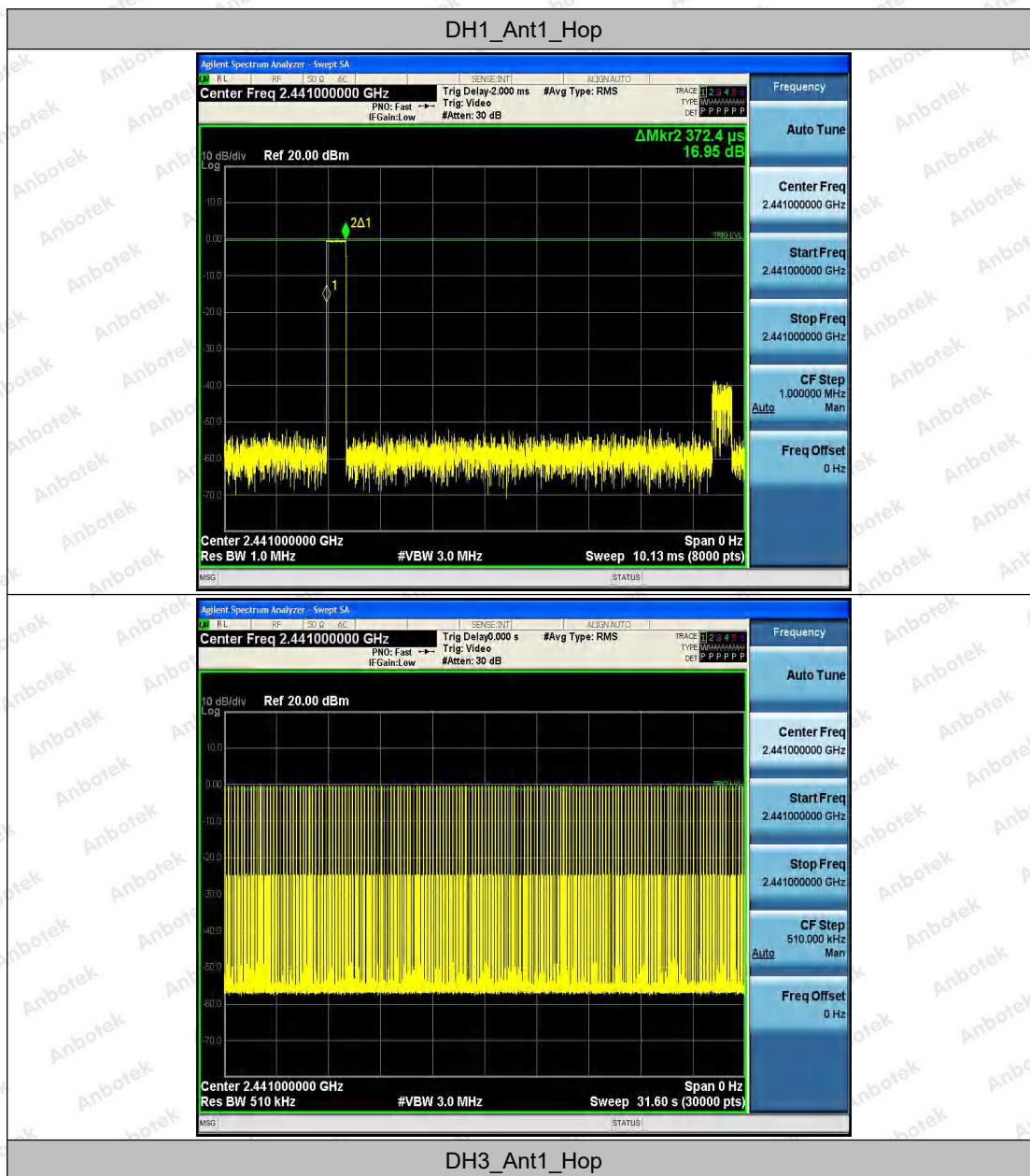
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	312	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.88	115	0.331	≤0.4	PASS

Test Graphs





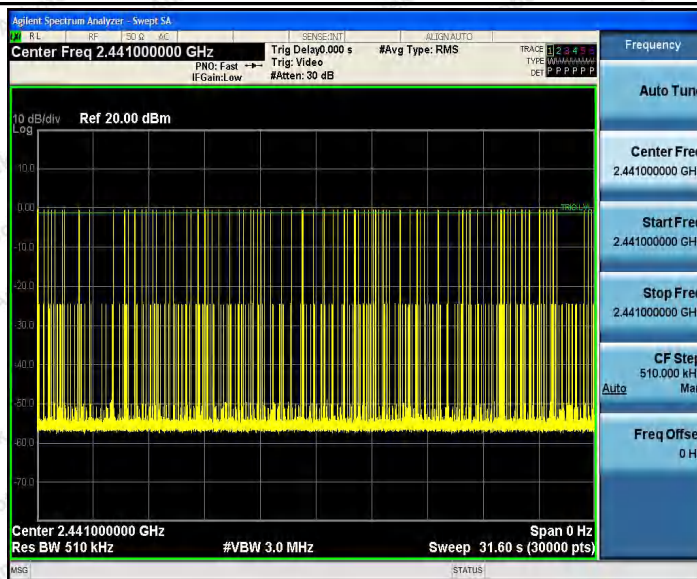
DH5_Ant1_Hop

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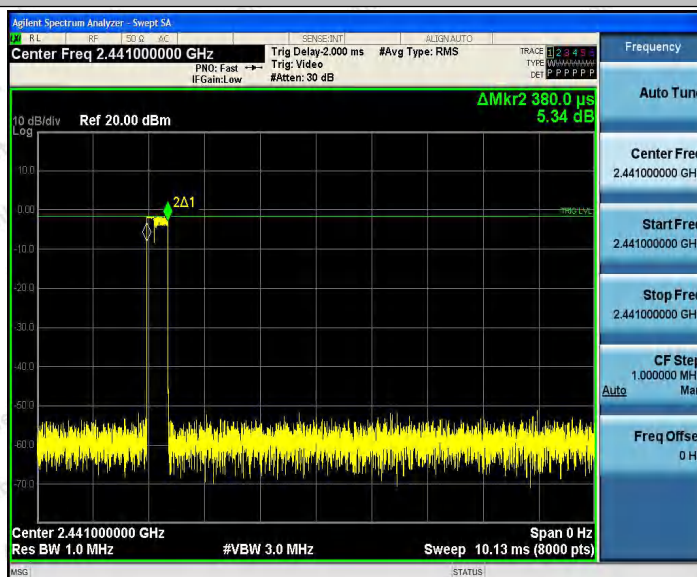
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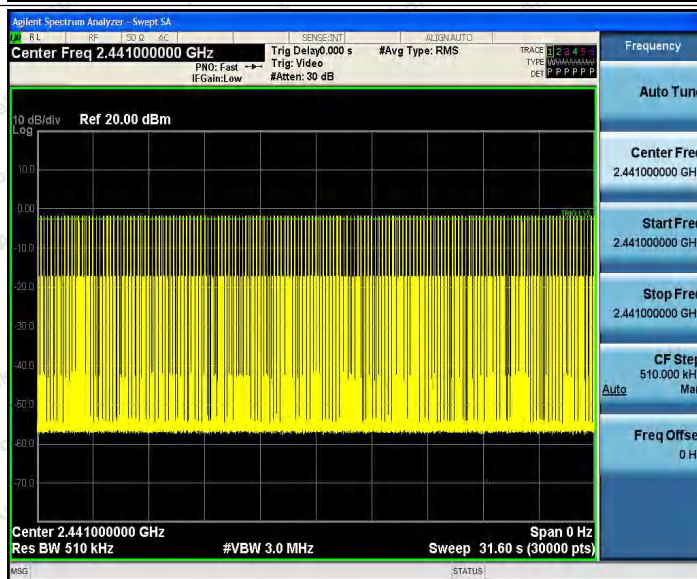
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

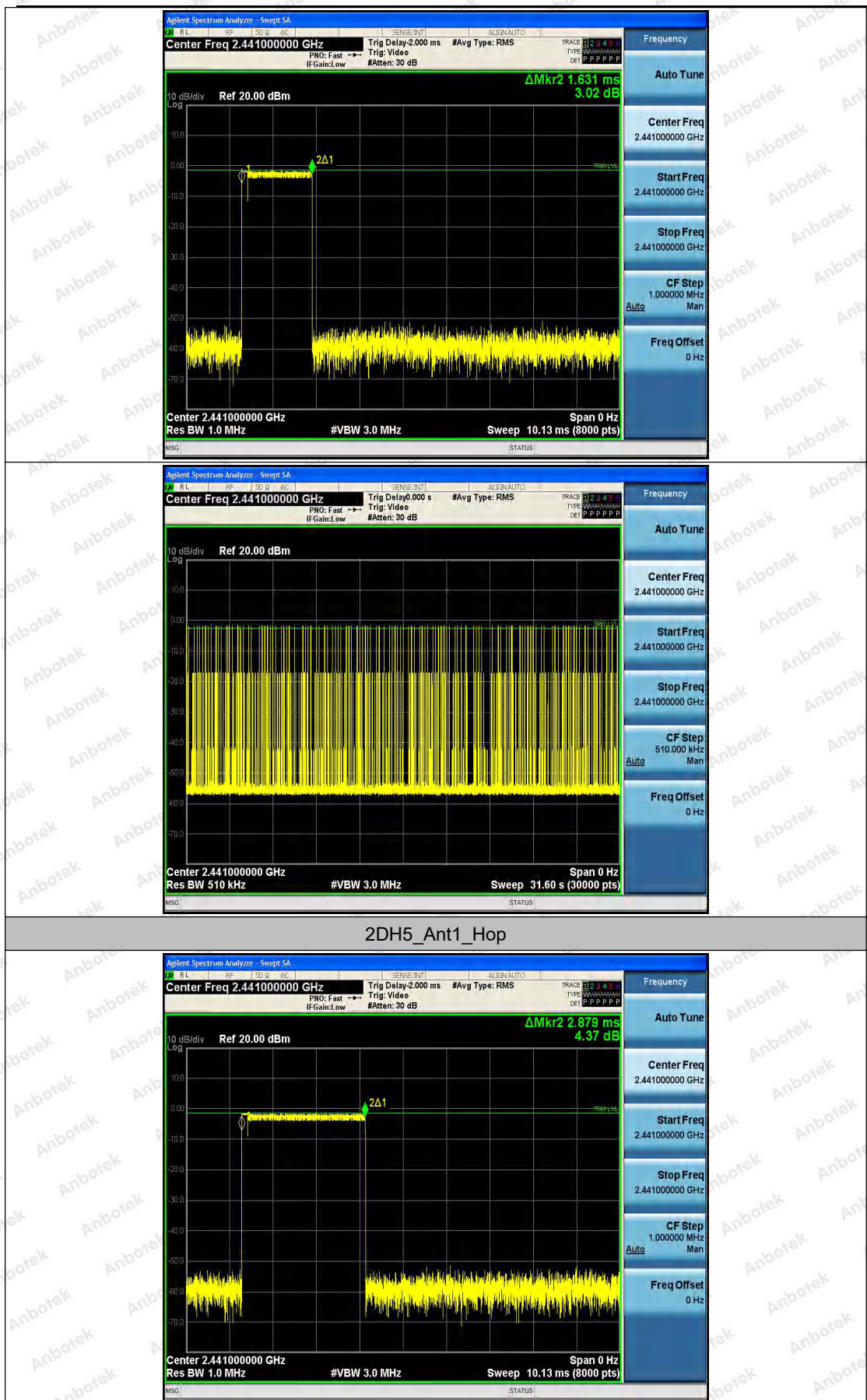


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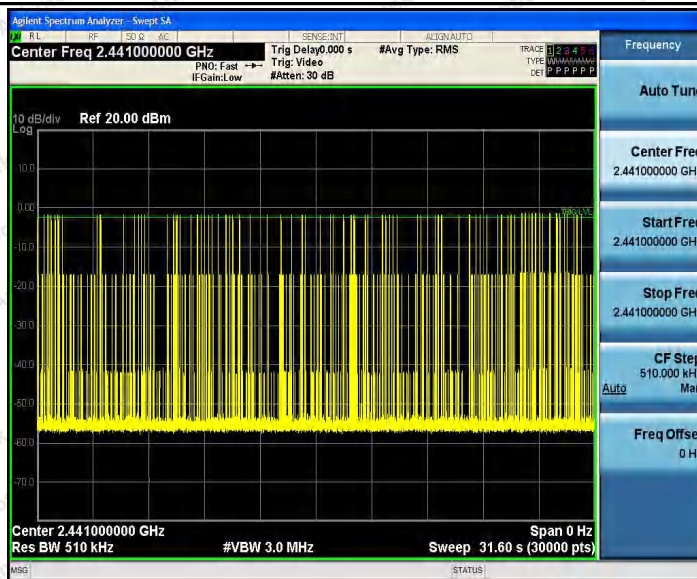
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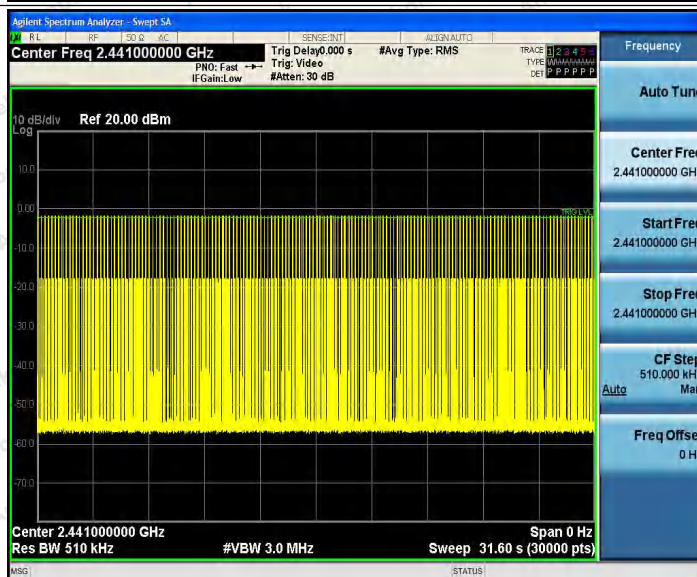
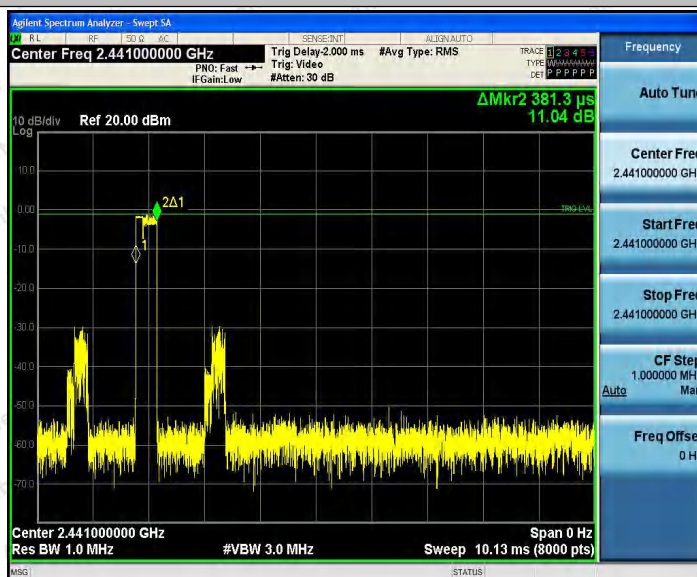
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



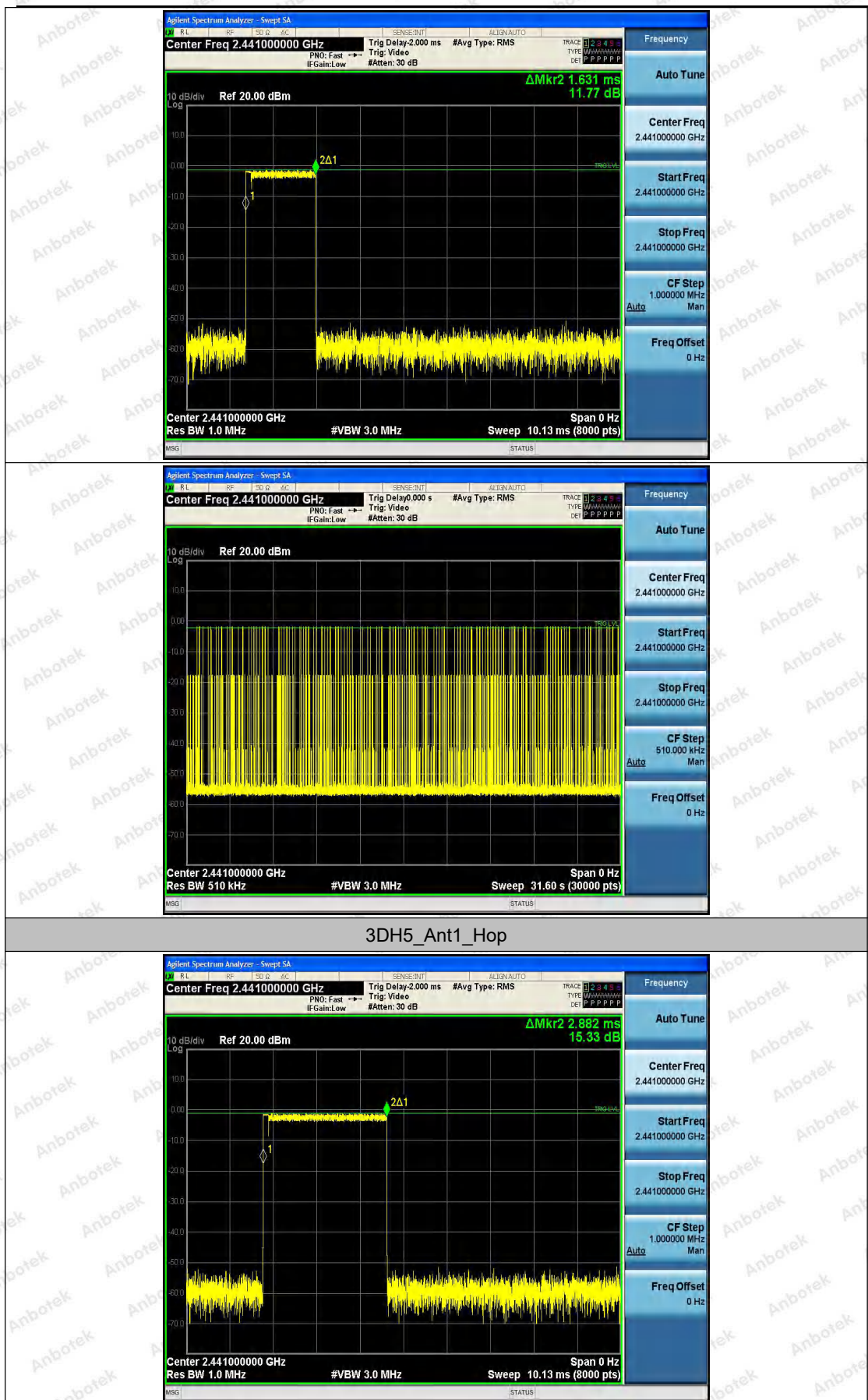
3DH3_Ant1_Hop

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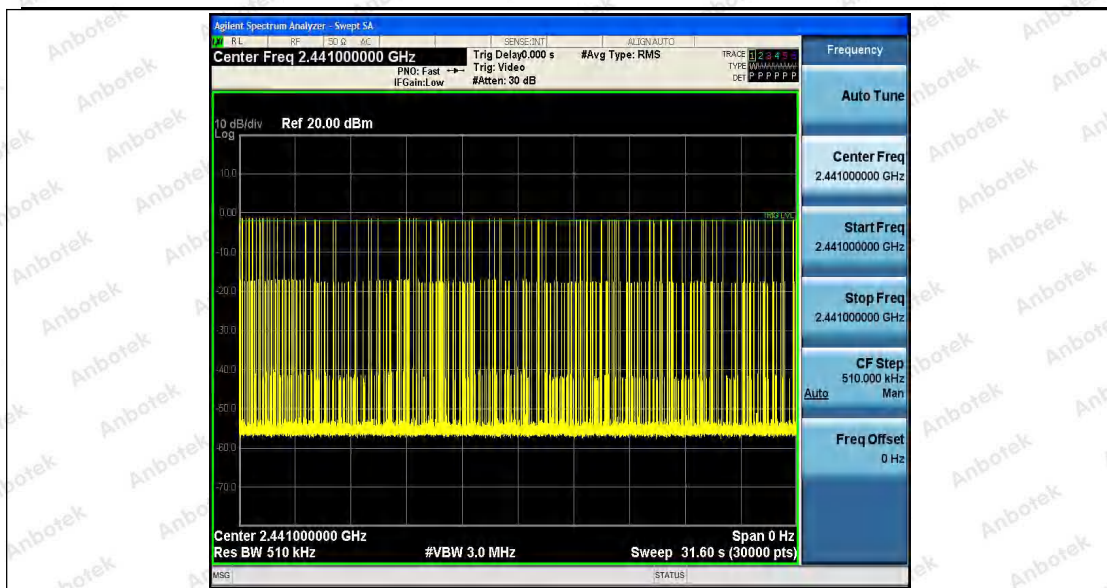


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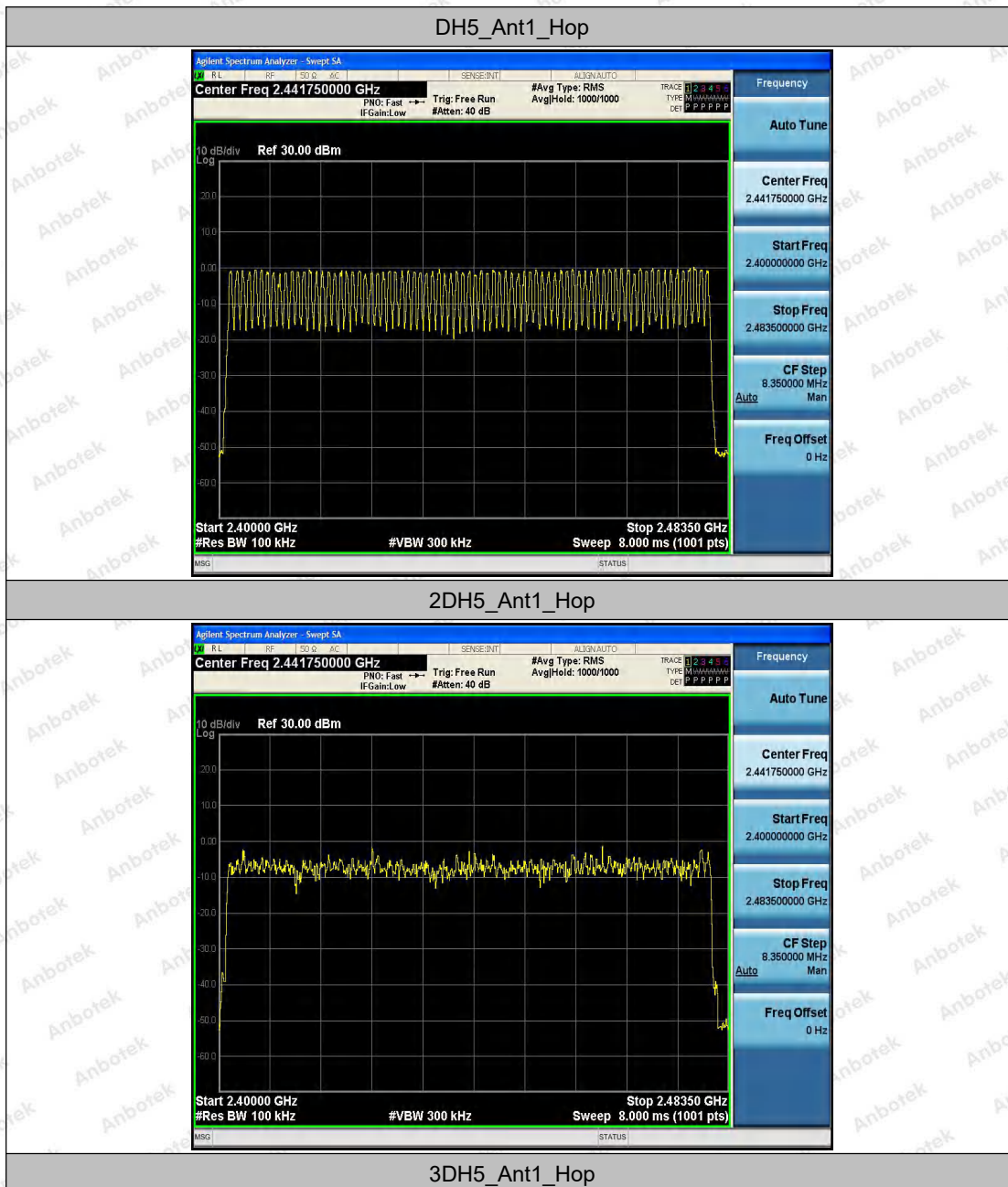
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Appendix F: Number of hopping channels

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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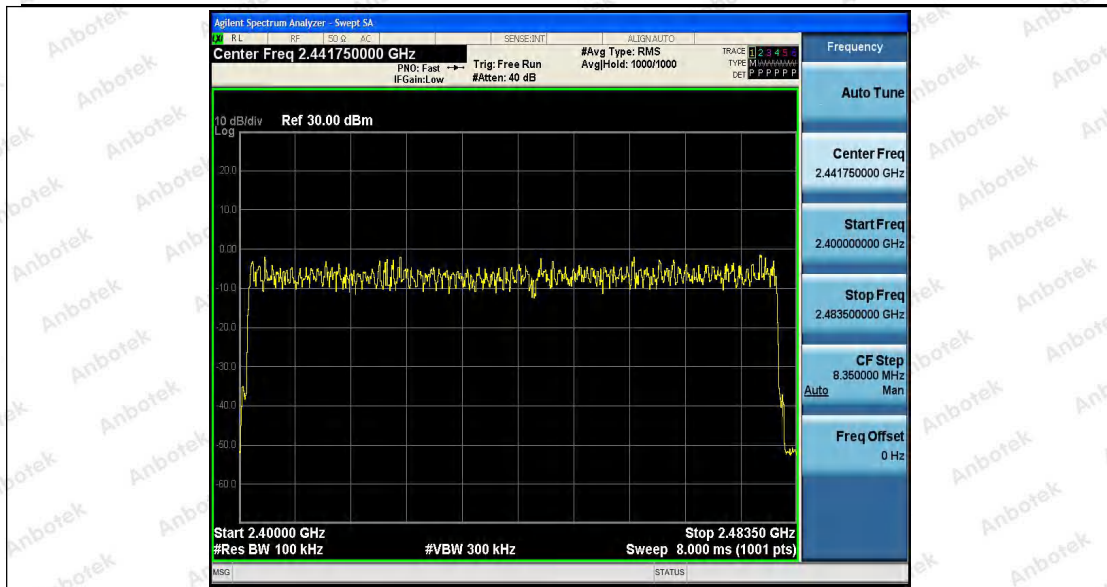
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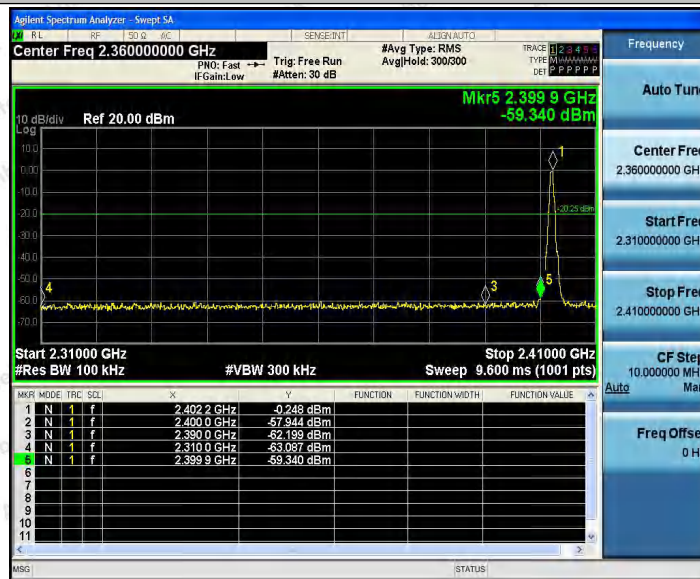
Appendix G: Band edge measurements

Test Result

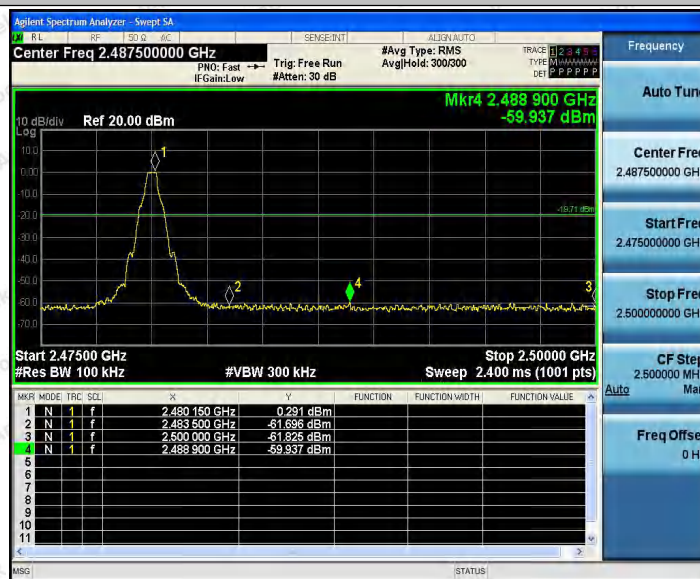
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.25	-59.34	≤ -20.25	PASS
		High	2480	0.29	-59.94	≤ -19.71	PASS
		Low	Hop	-0.66	-60.24	≤ -20.66	PASS
		High	Hop	-0.20	-63	≤ -20.2	PASS
2DH5	Ant1	Low	2402	-1.80	-56.56	≤ -21.8	PASS
		High	2480	-1.00	-60.11	≤ -21	PASS
		Low	Hop	-2.33	-60.24	≤ -22.33	PASS
		High	Hop	-4.33	-61.49	≤ -24.33	PASS
3DH5	Ant1	Low	2402	-1.49	-57.51	≤ -21.49	PASS
		High	2480	-0.79	-59.56	≤ -20.79	PASS
		Low	Hop	-1.42	-59.82	≤ -21.42	PASS
		High	Hop	-4.55	-63.29	≤ -24.55	PASS

Test Graphs

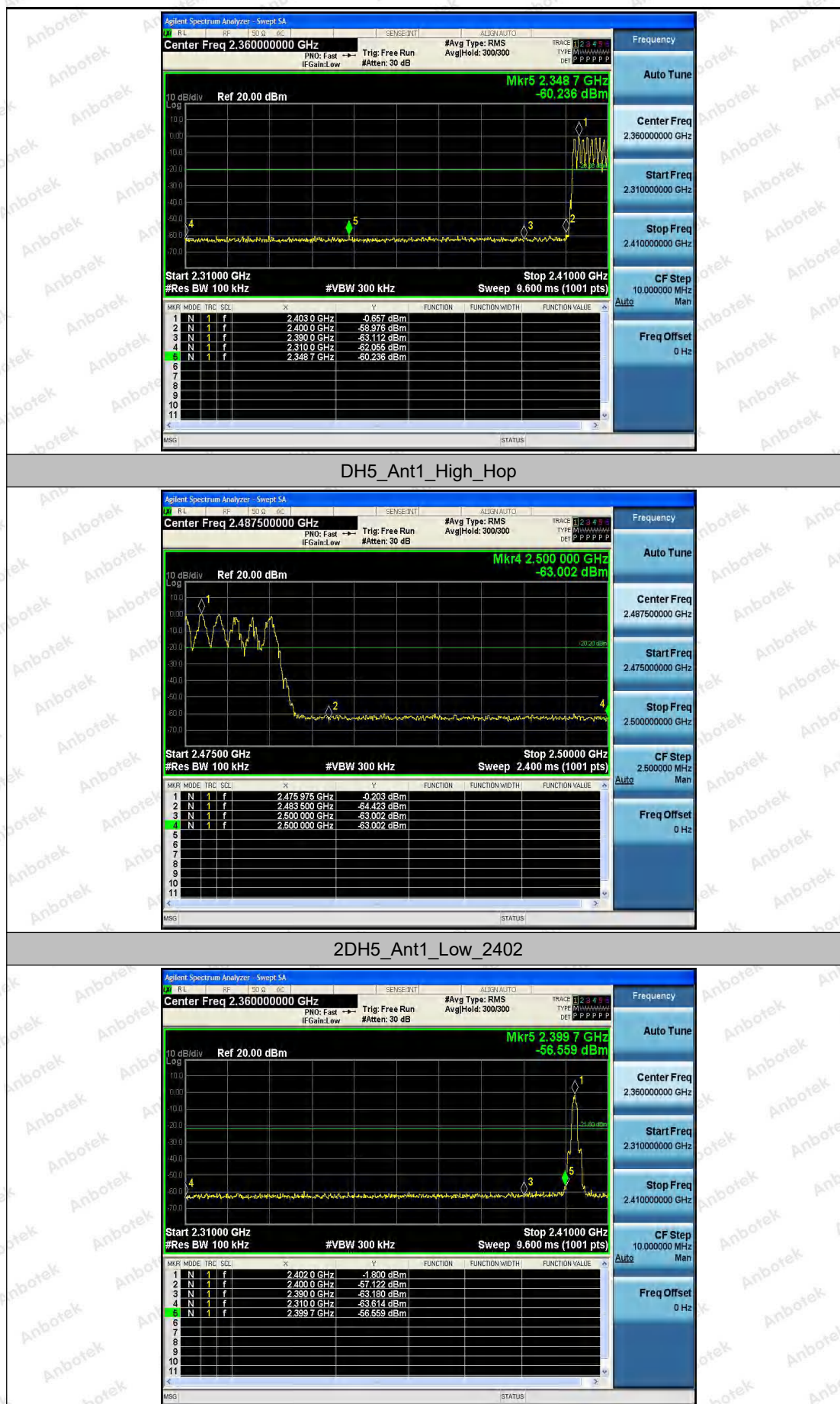
DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



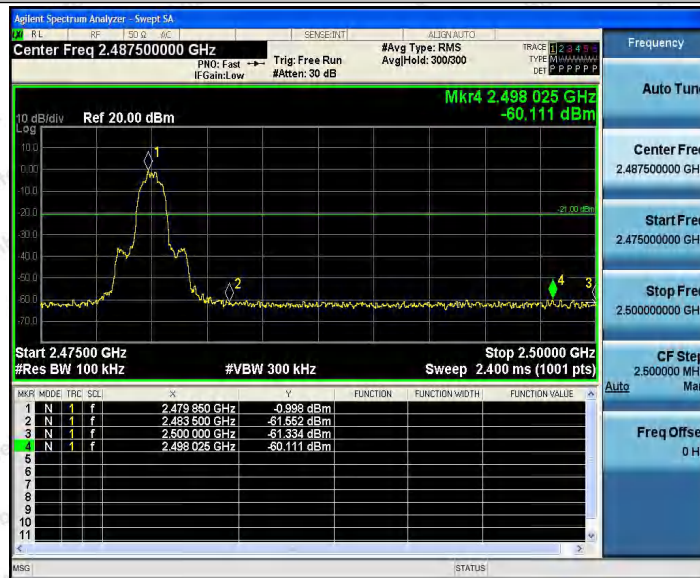
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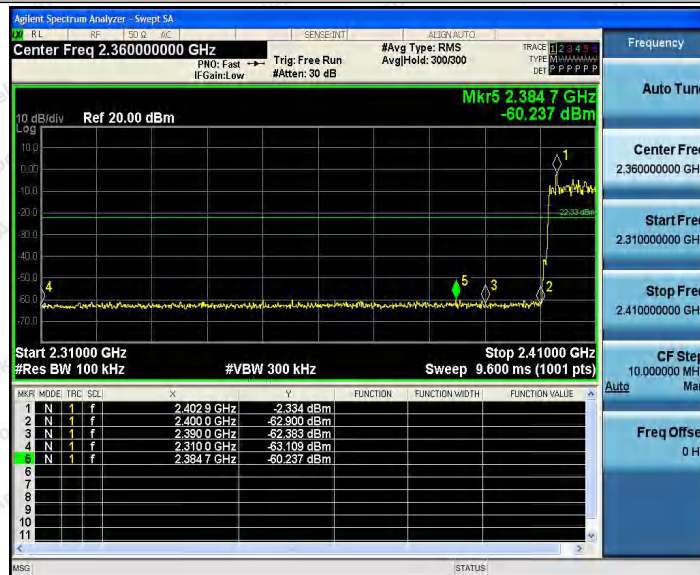
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



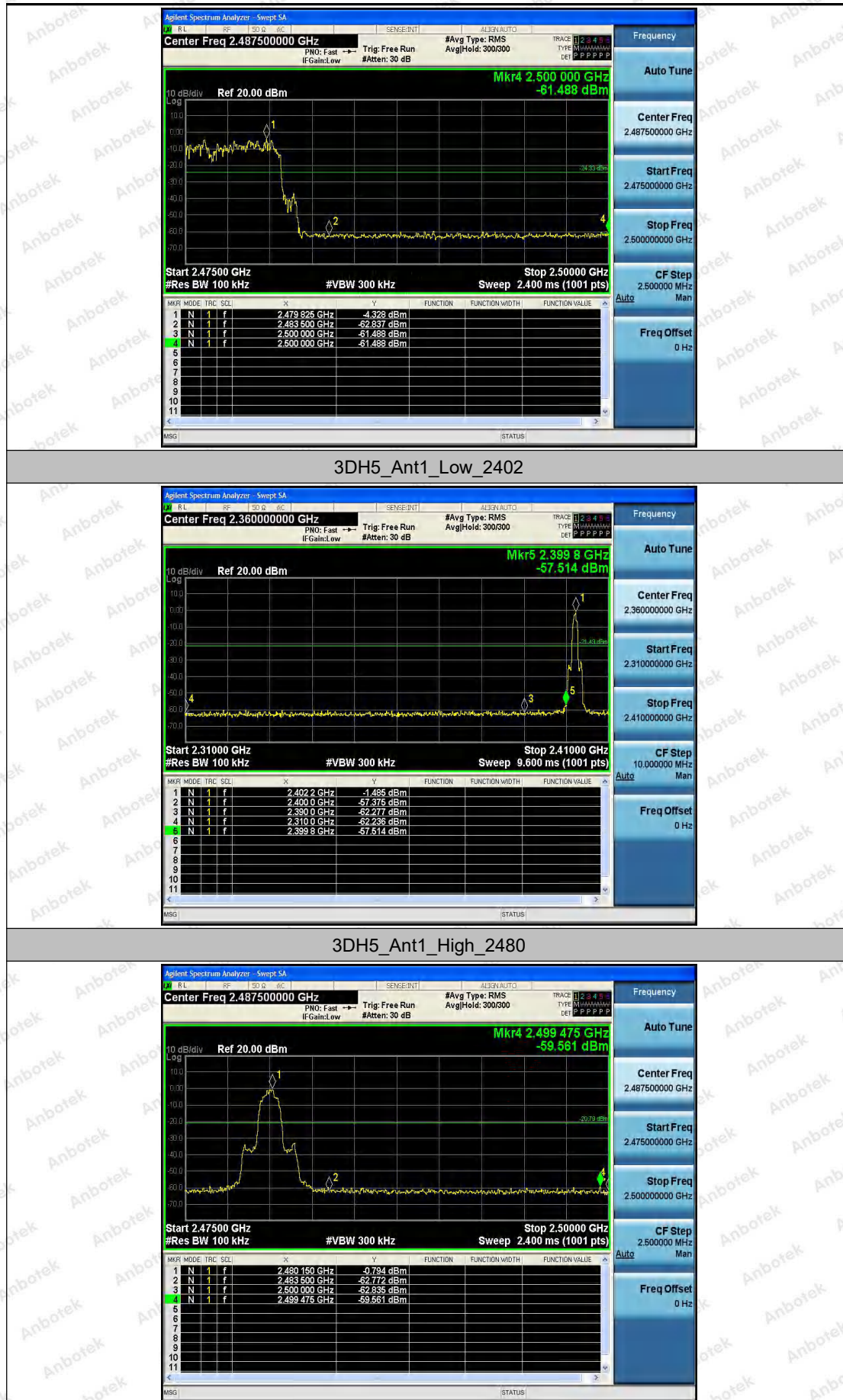
2DH5_Ant1_High_Hop

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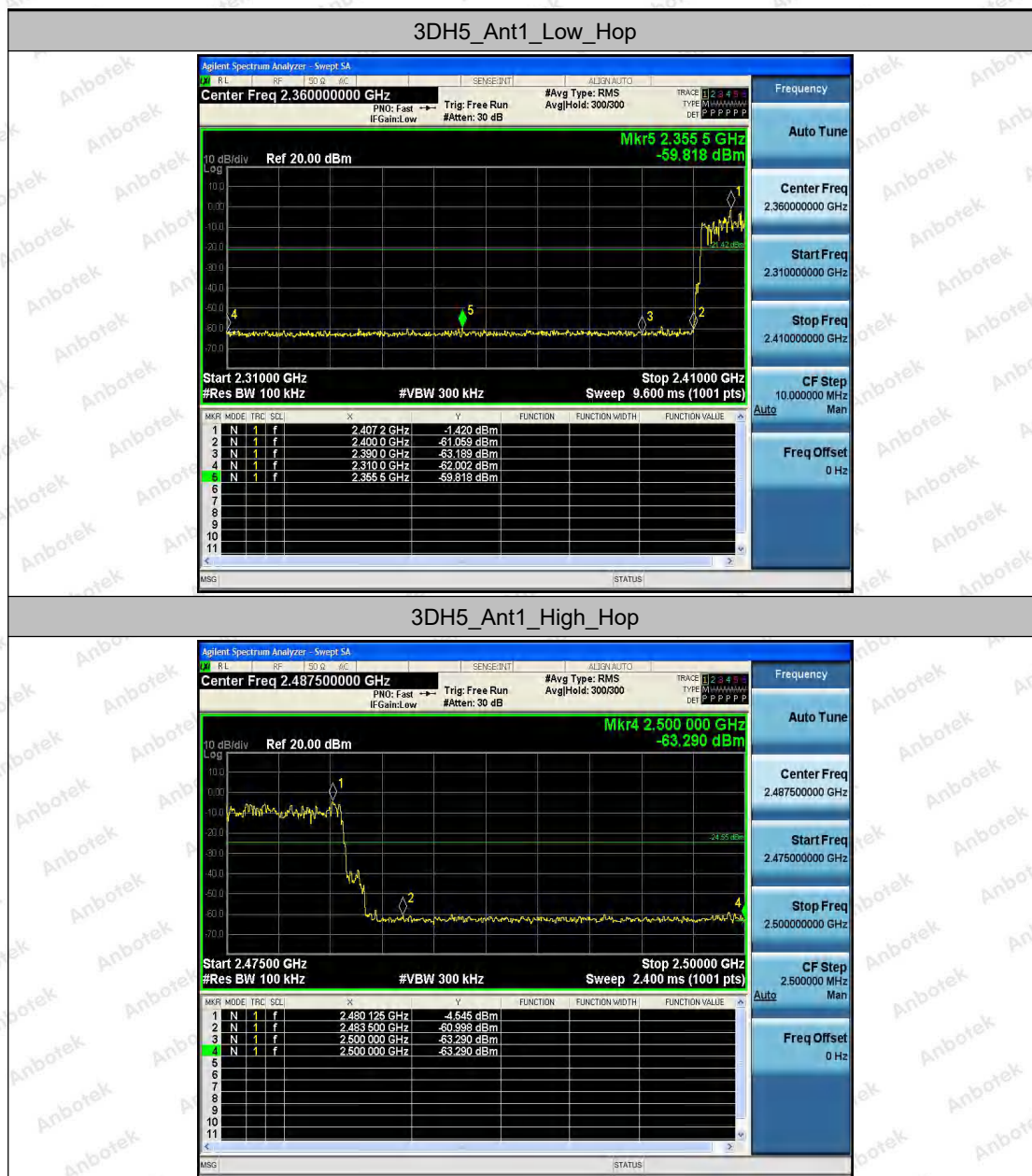


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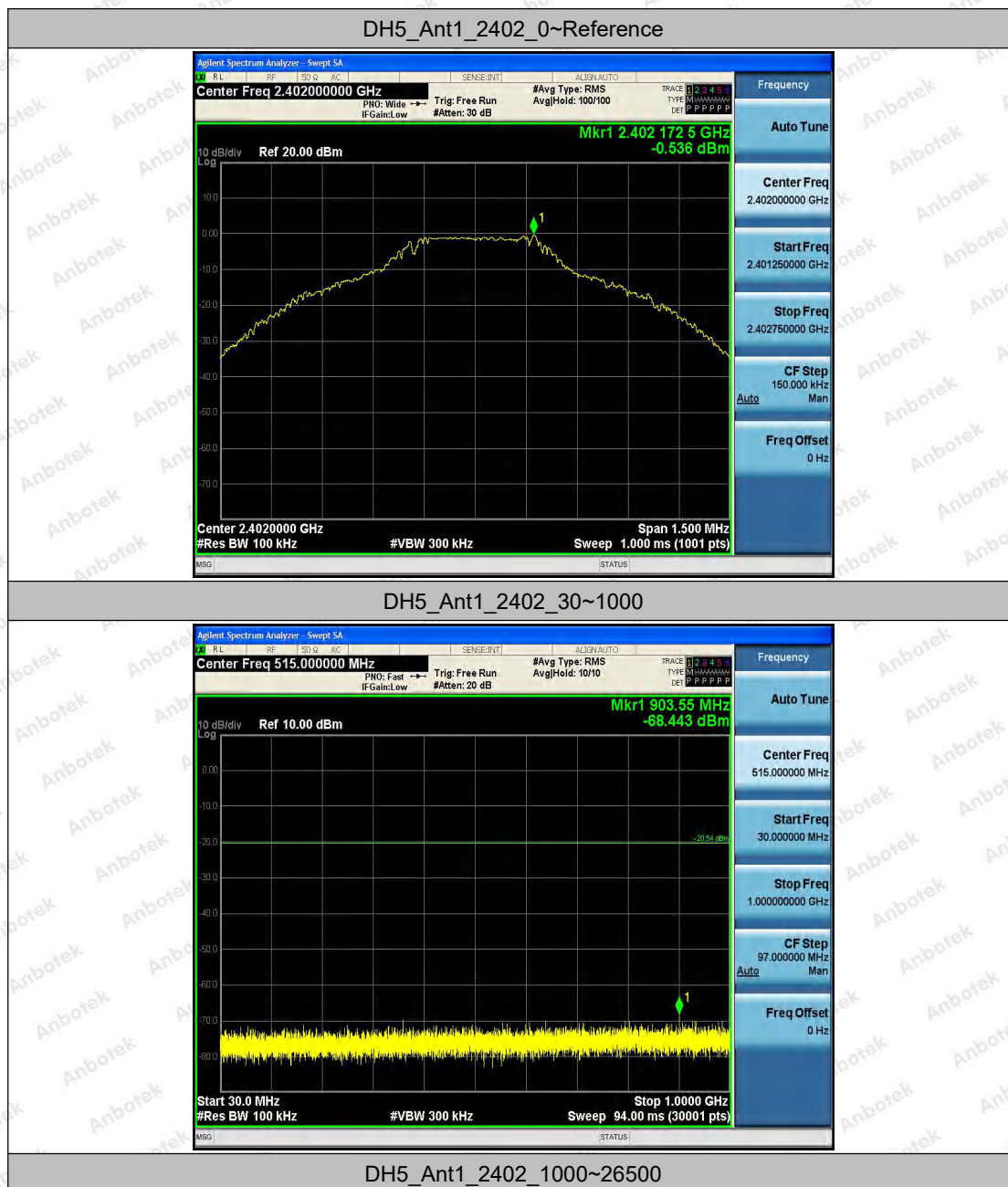


Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-68.44	≤-20.54	PASS
			1000~26500	-0.54	-55.45	≤-20.54	PASS
		2441	Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-65.83	≤-20.57	PASS
			1000~26500	-0.57	-55.74	≤-20.57	PASS
		2480	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-69.93	≤-19.87	PASS
			1000~26500	0.13	-55.57	≤-19.87	PASS
2DH5	Ant1	2402	Reference	-2.02	-2.02	---	PASS
			30~1000	-2.02	-69.61	≤-22.02	PASS
			1000~26500	-2.02	-54.36	≤-22.02	PASS
		2441	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-69.88	≤-22.11	PASS
			1000~26500	-2.11	-55.59	≤-22.11	PASS
		2480	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-69.23	≤-21.3	PASS
			1000~26500	-1.30	-56.28	≤-21.3	PASS
3DH5	Ant1	2402	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-69.27	≤-21.81	PASS
			1000~26500	-1.81	-55.13	≤-21.81	PASS
		2441	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-70.29	≤-22.3	PASS
			1000~26500	-2.30	-55.94	≤-22.3	PASS
		2480	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-71.09	≤-21.55	PASS
			1000~26500	-1.55	-54.87	≤-21.55	PASS

Test Graphs

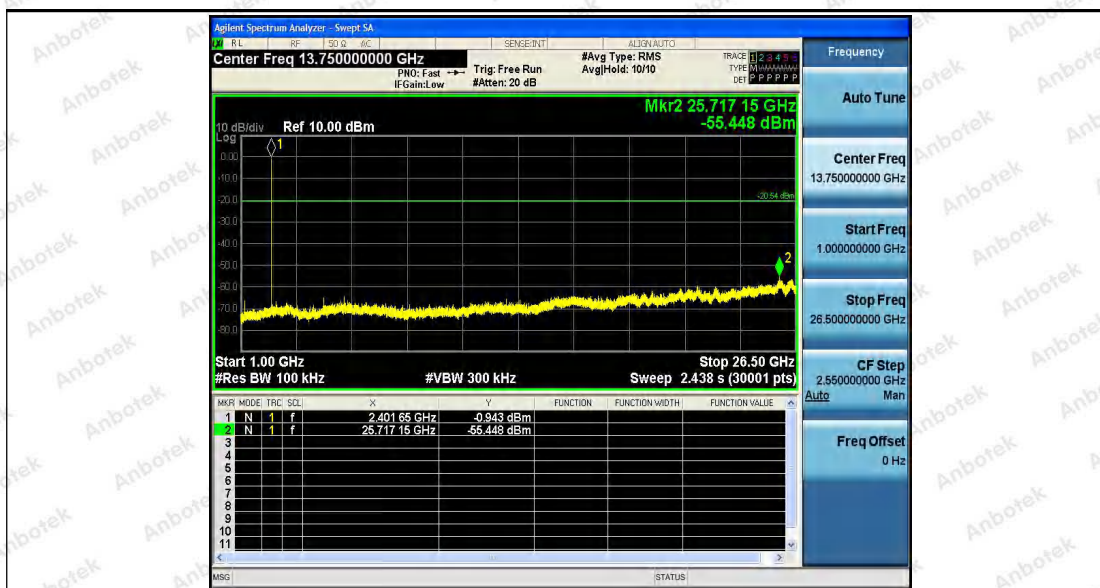


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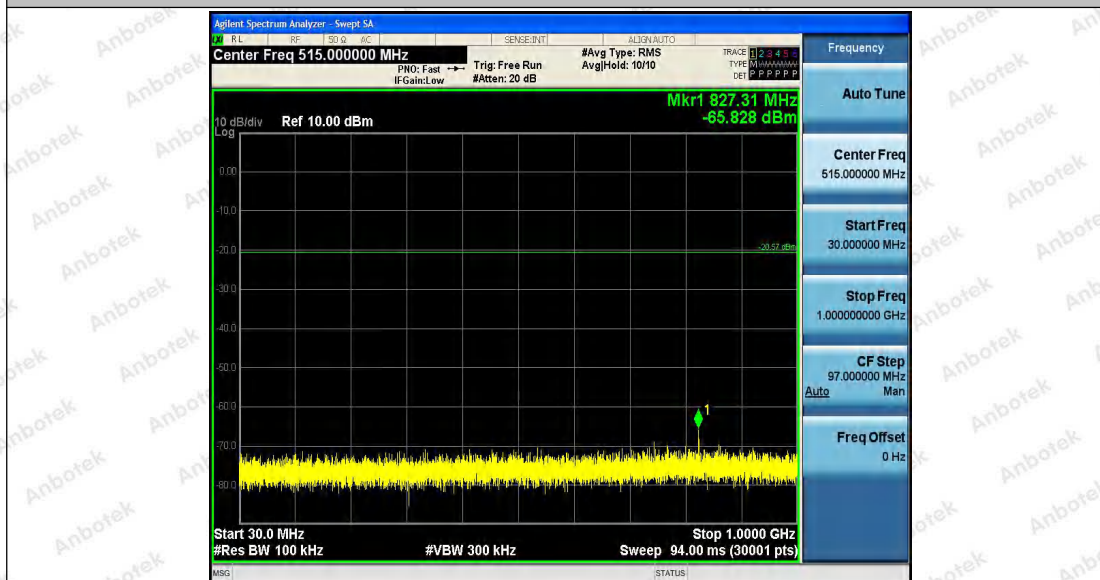
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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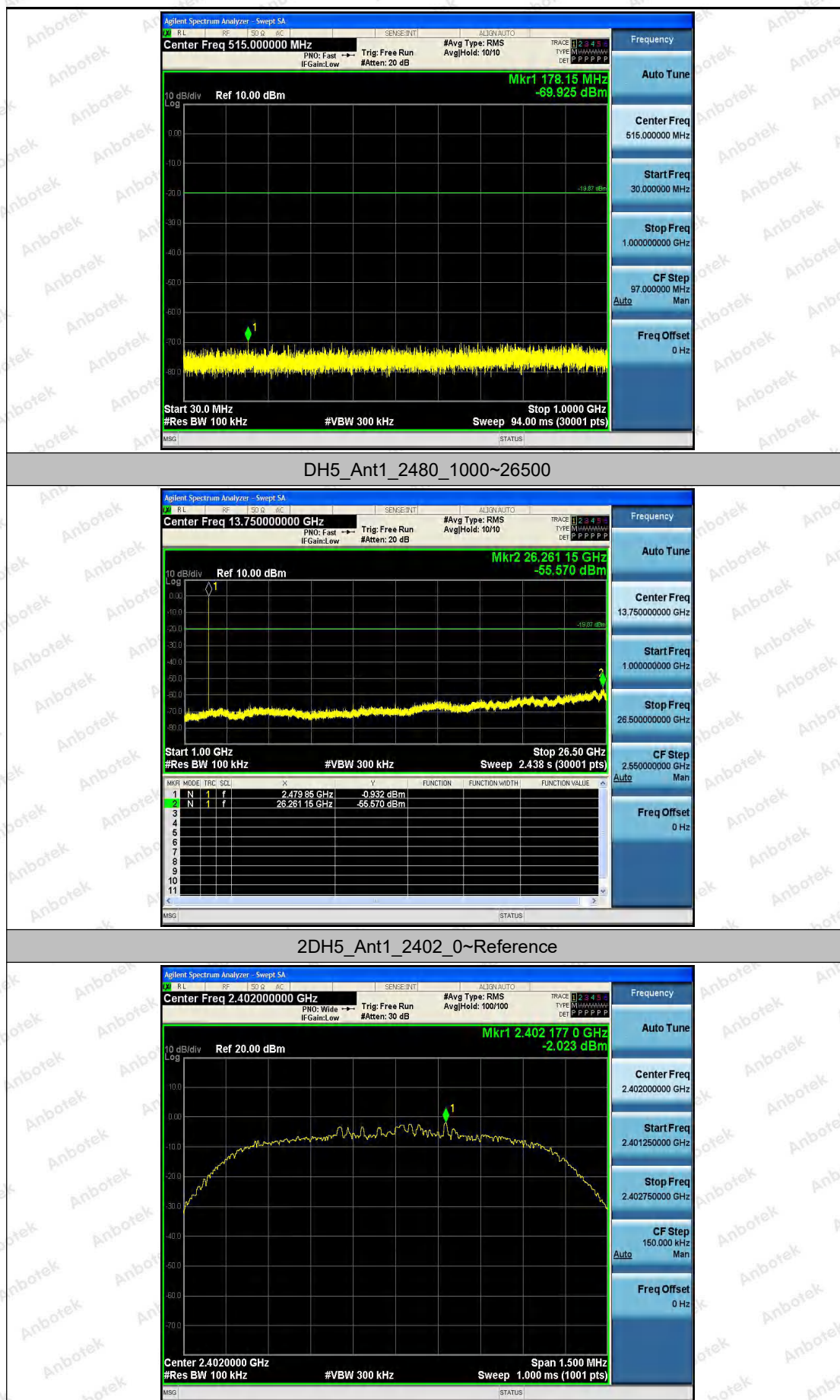


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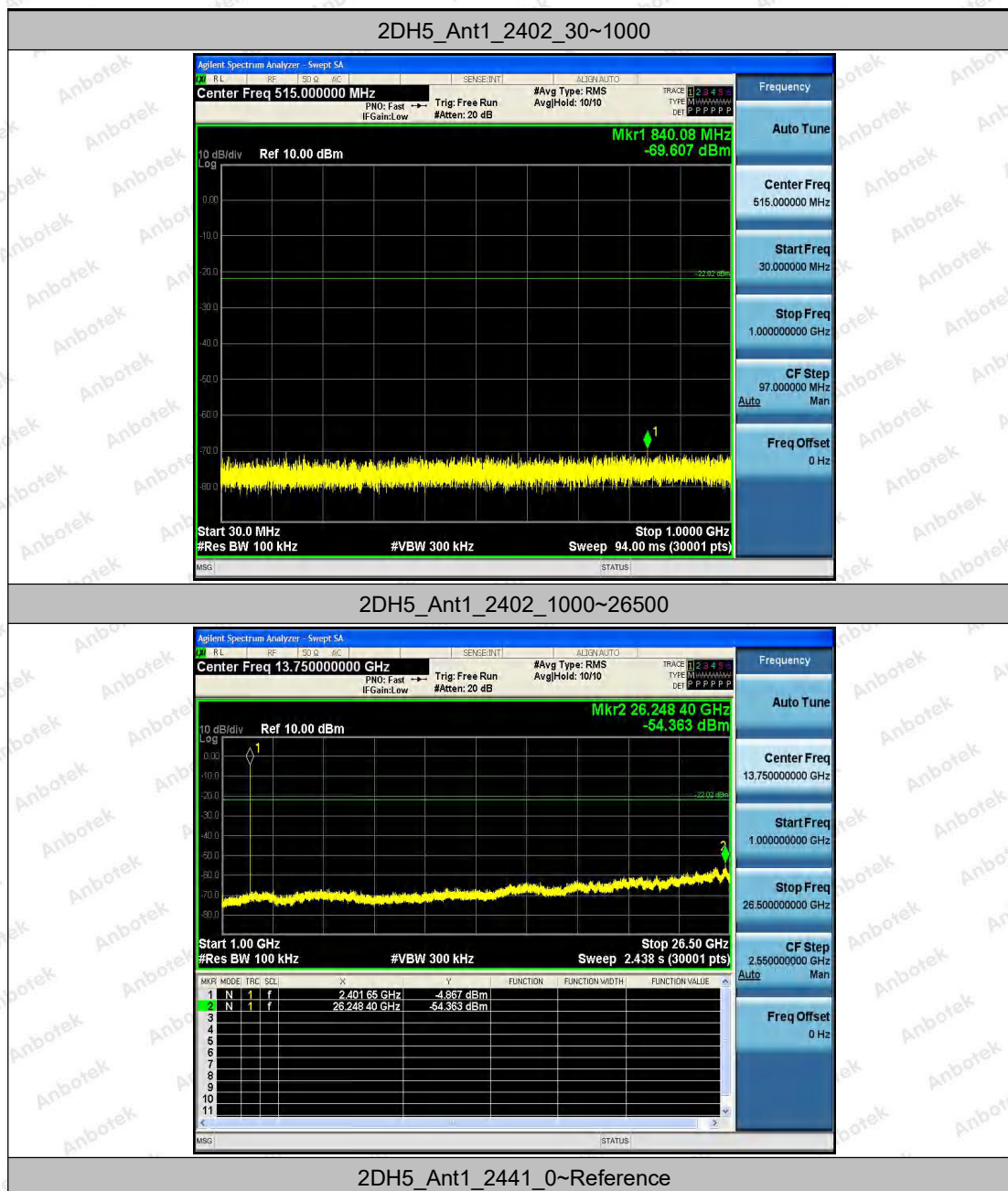


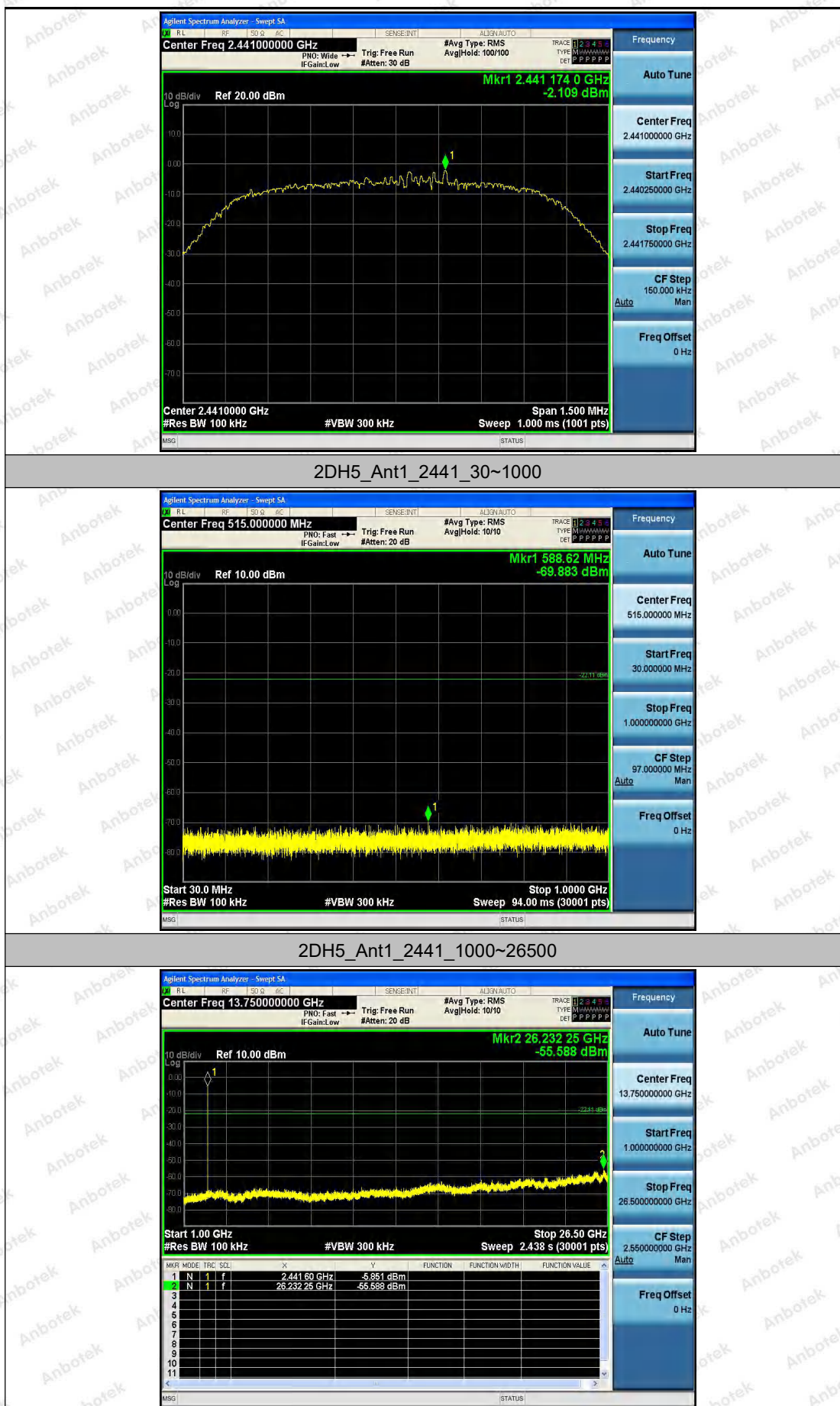
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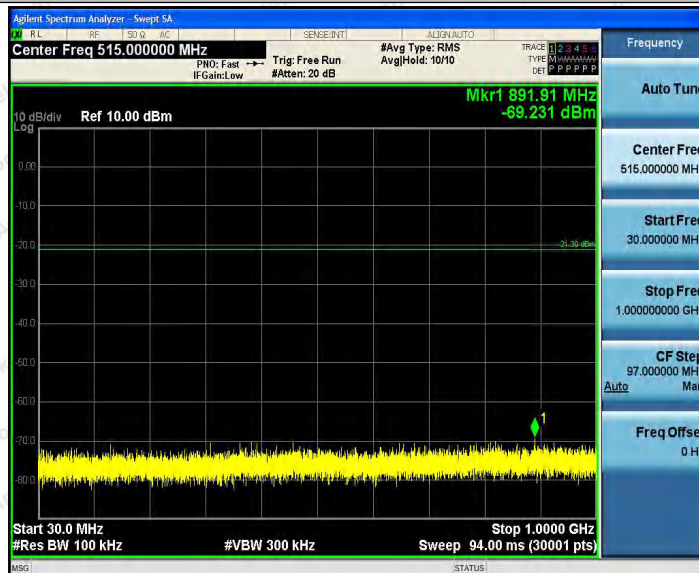
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

Hotline
400-003-0500
www.anbotech.com

2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



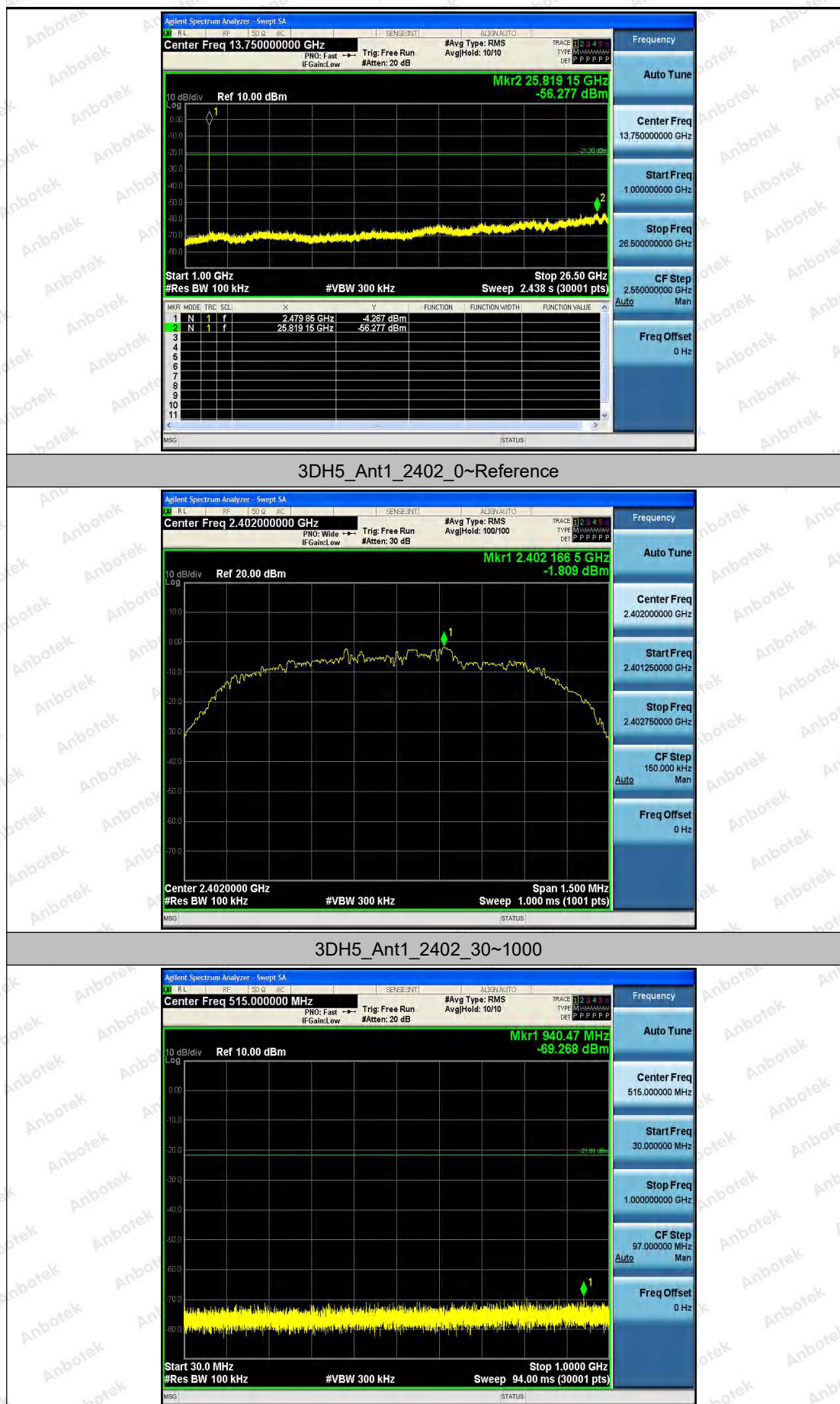
2DH5_Ant1_2480_1000~26500

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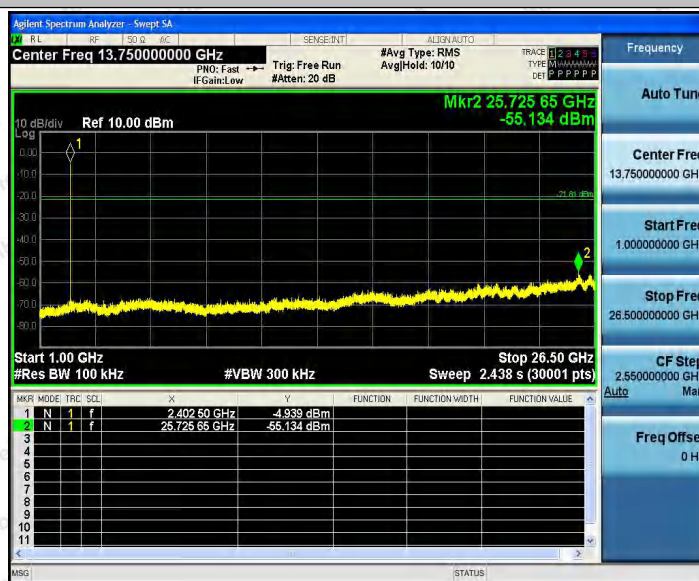
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



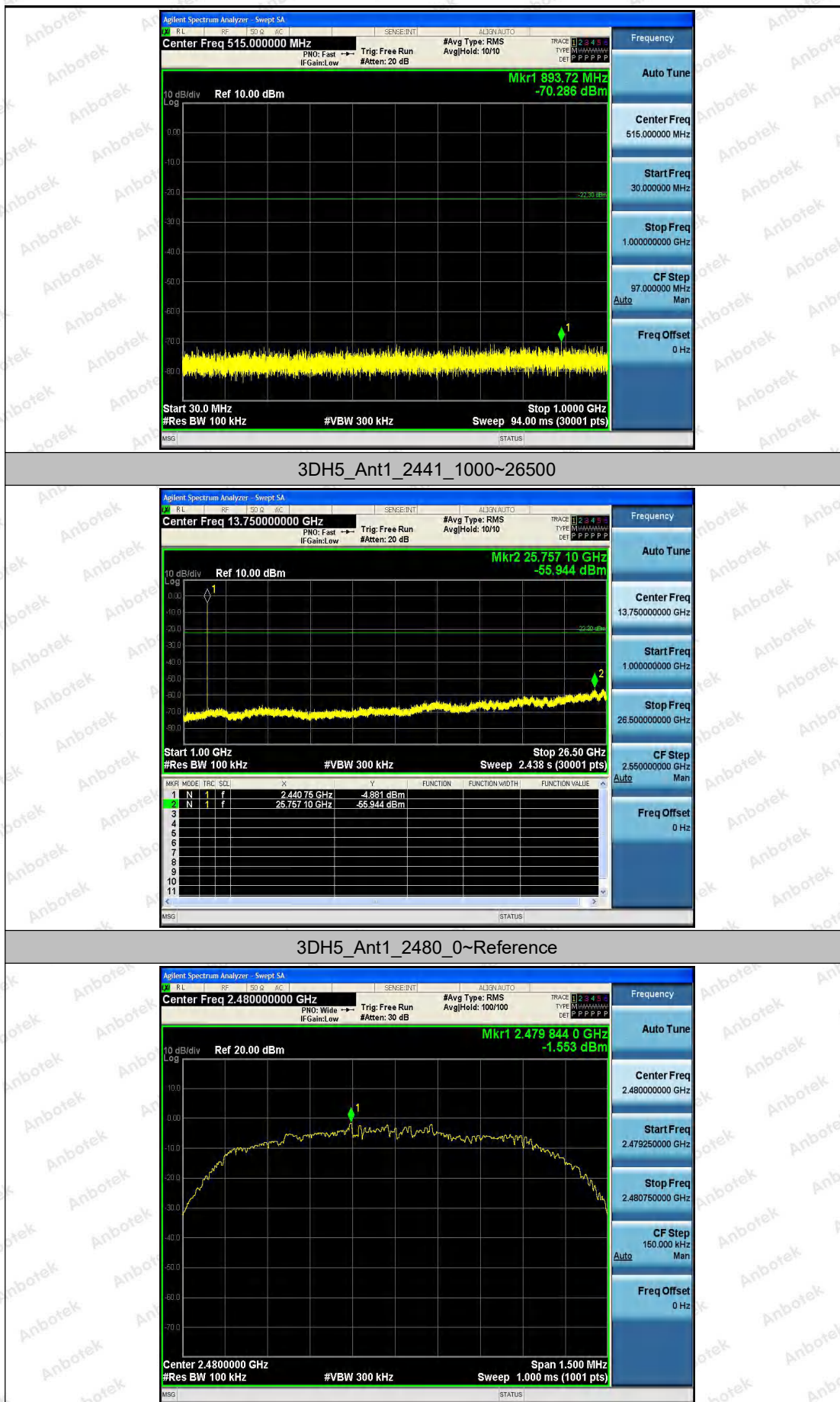
3DH5_Ant1_2441_30~1000

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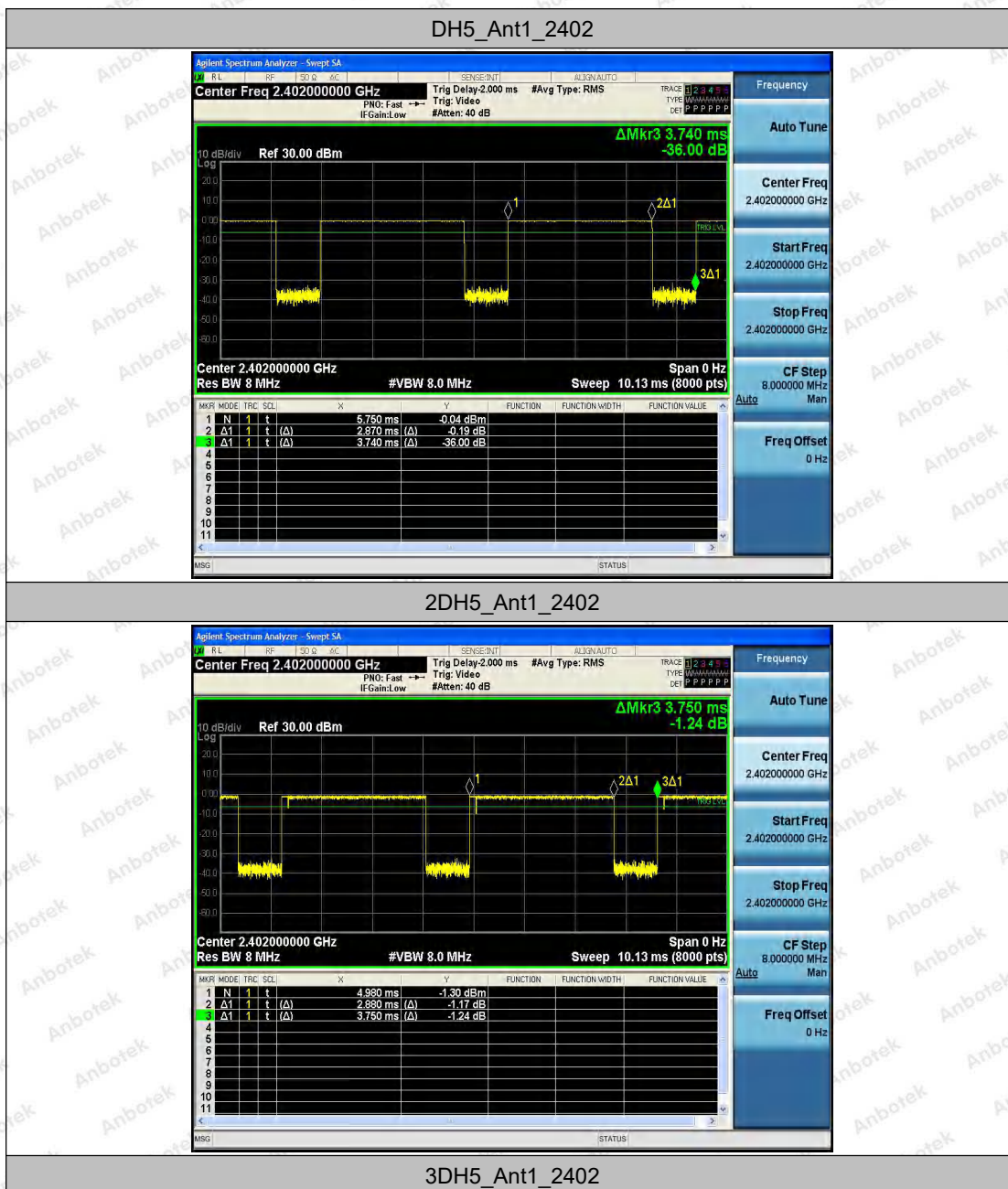
Hotline
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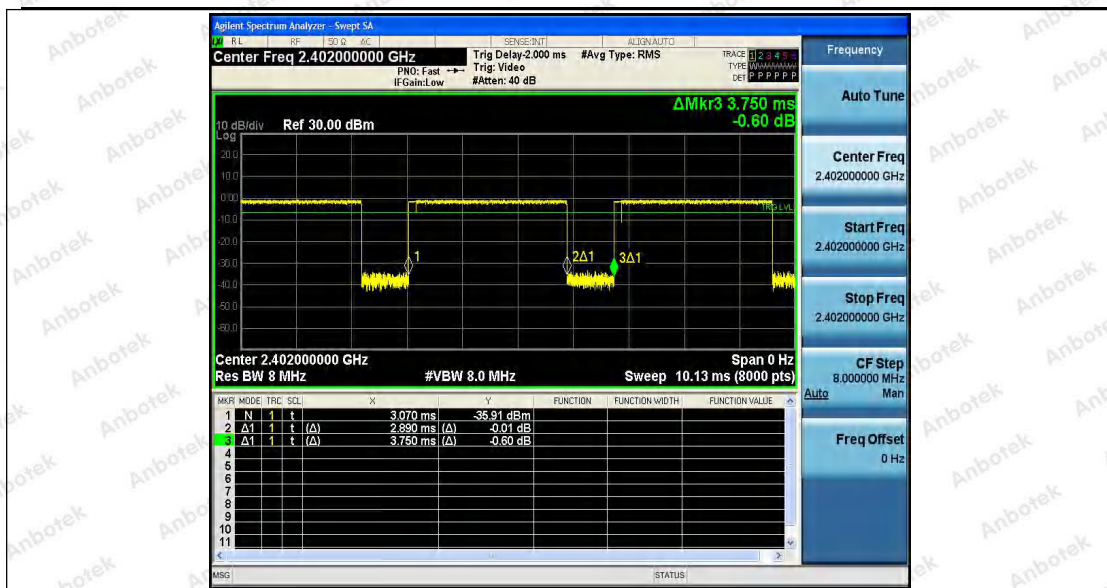
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---