

Appendix Test Data

Report No.:	18220WC20017701	Test Sample No.:	1-2-2
Start Test Date:	2022.2.15	Finish Test Date:	2022.2.18
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56.2 %
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	0.945	2401.541	2402.486	---	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	1.269	2440.367	2441.636	---	PASS
		2480	1.320	2479.340	2480.660	---	PASS
3DH5	Ant1	2402	1.269	2401.358	2402.627	---	PASS
		2441	1.302	2440.349	2441.651	---	PASS
		2480	1.314	2479.346	2480.660	---	PASS

Test Graphs

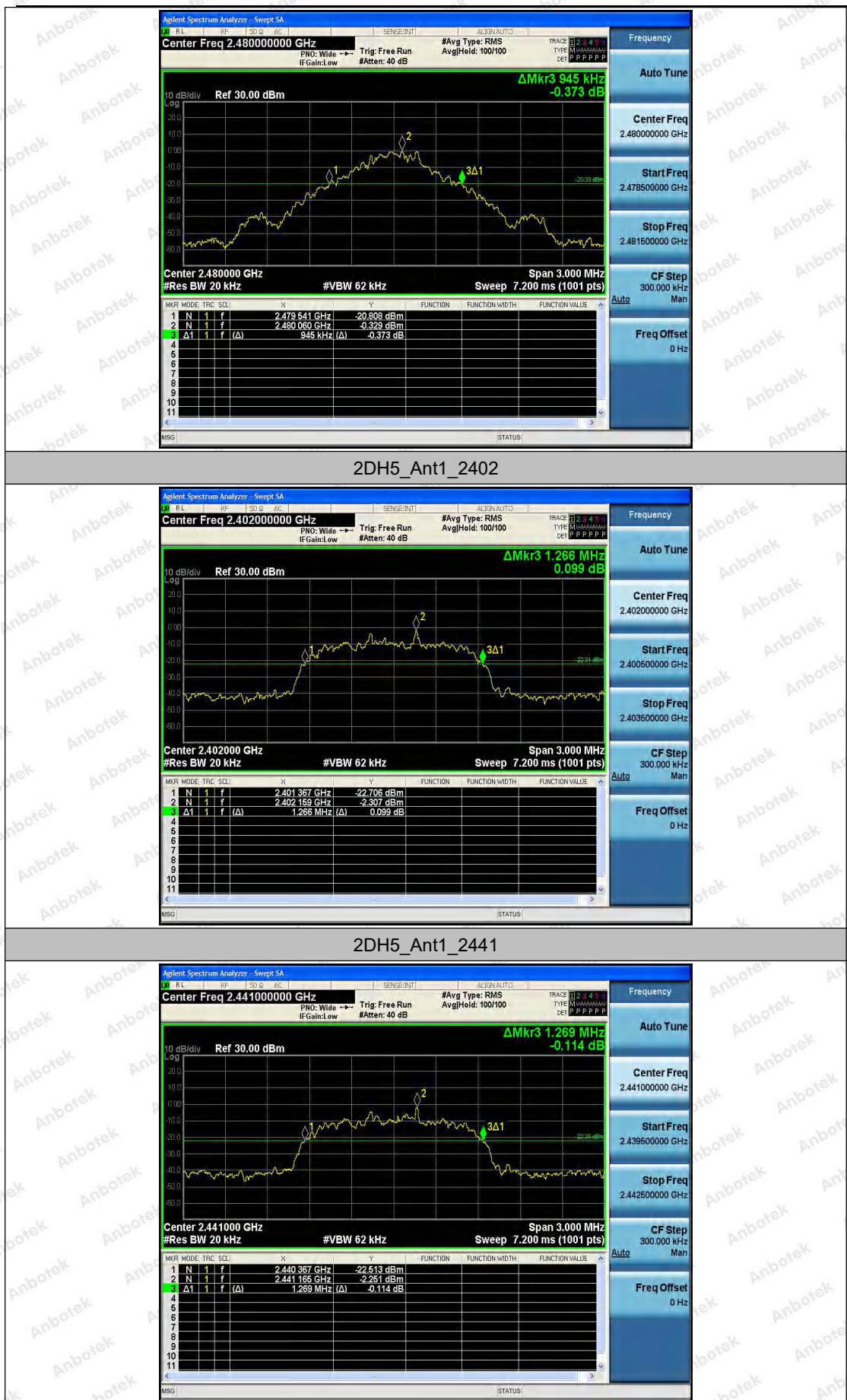
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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2DH5_Ant1_2480



3DH5_Ant1_2402



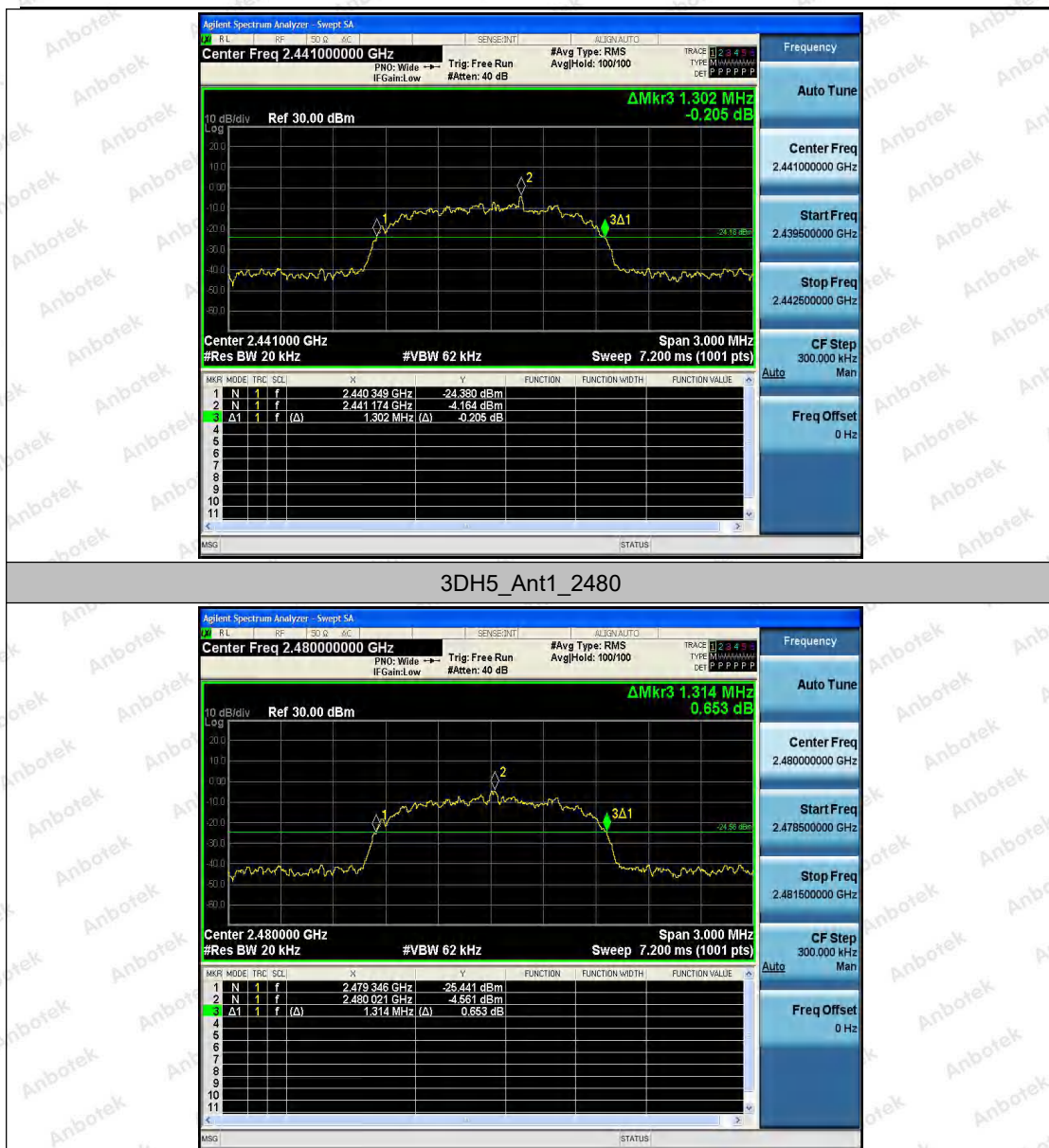
3DH5_Ant1_2441

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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	0.89064	2401.55 9	2402.450	---	PASS
		2441	0.88810	2440.55 9	2441.447	---	PASS
		2480	0.89474	2479.55 5	2480.450	---	PASS
2DH5	Ant1	2402	1.1868	2401.40 7	2402.594	---	PASS
		2441	1.1925	2440.40 6	2441.598	---	PASS
		2480	1.1930	2479.40 5	2480.598	---	PASS
3DH5	Ant1	2402	1.2080	2401.38 9	2402.597	---	PASS
		2441	1.2090	2440.38 8	2441.597	---	PASS
		2480	1.1976	2479.39 6	2480.593	---	PASS

Test Graphs

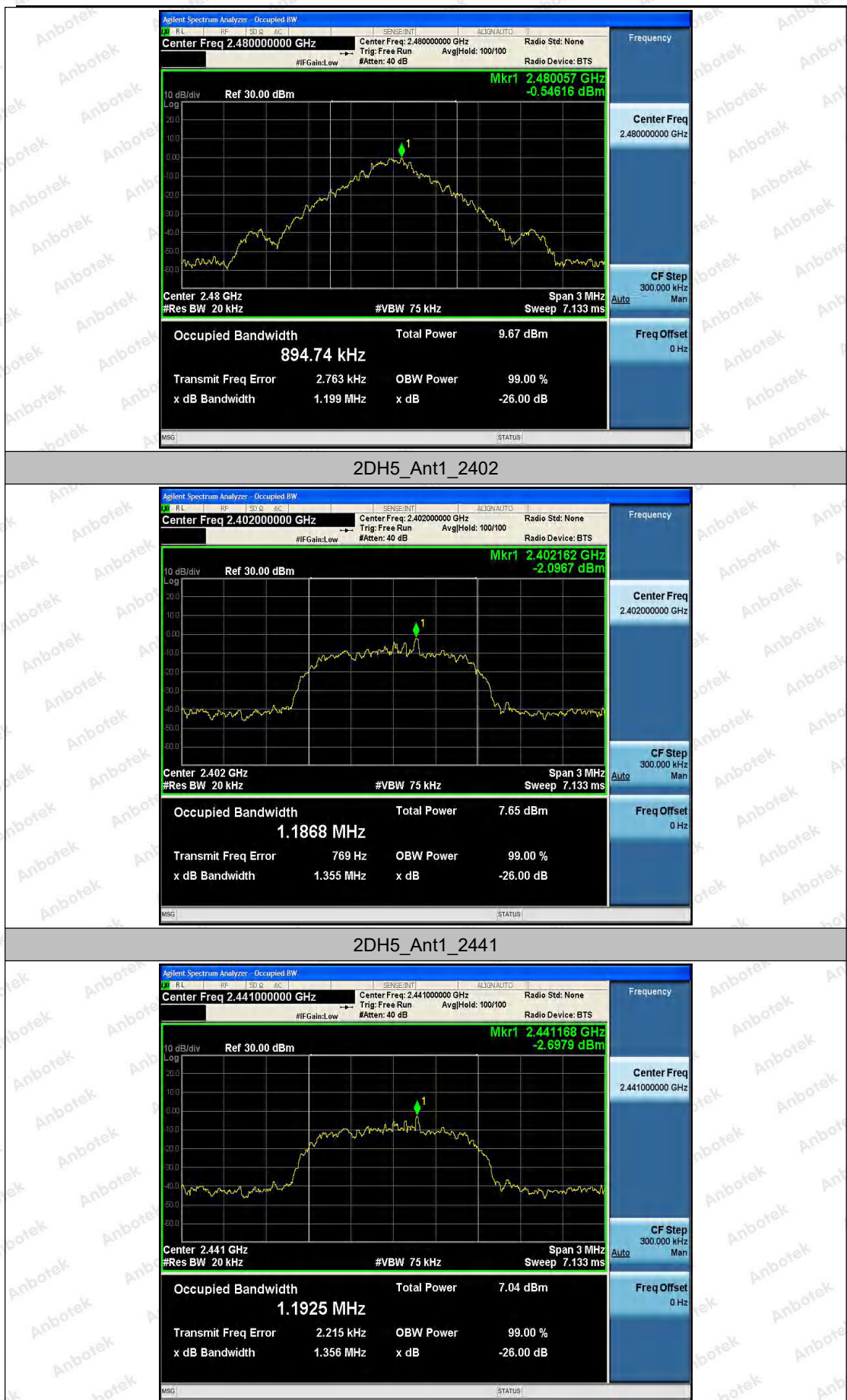


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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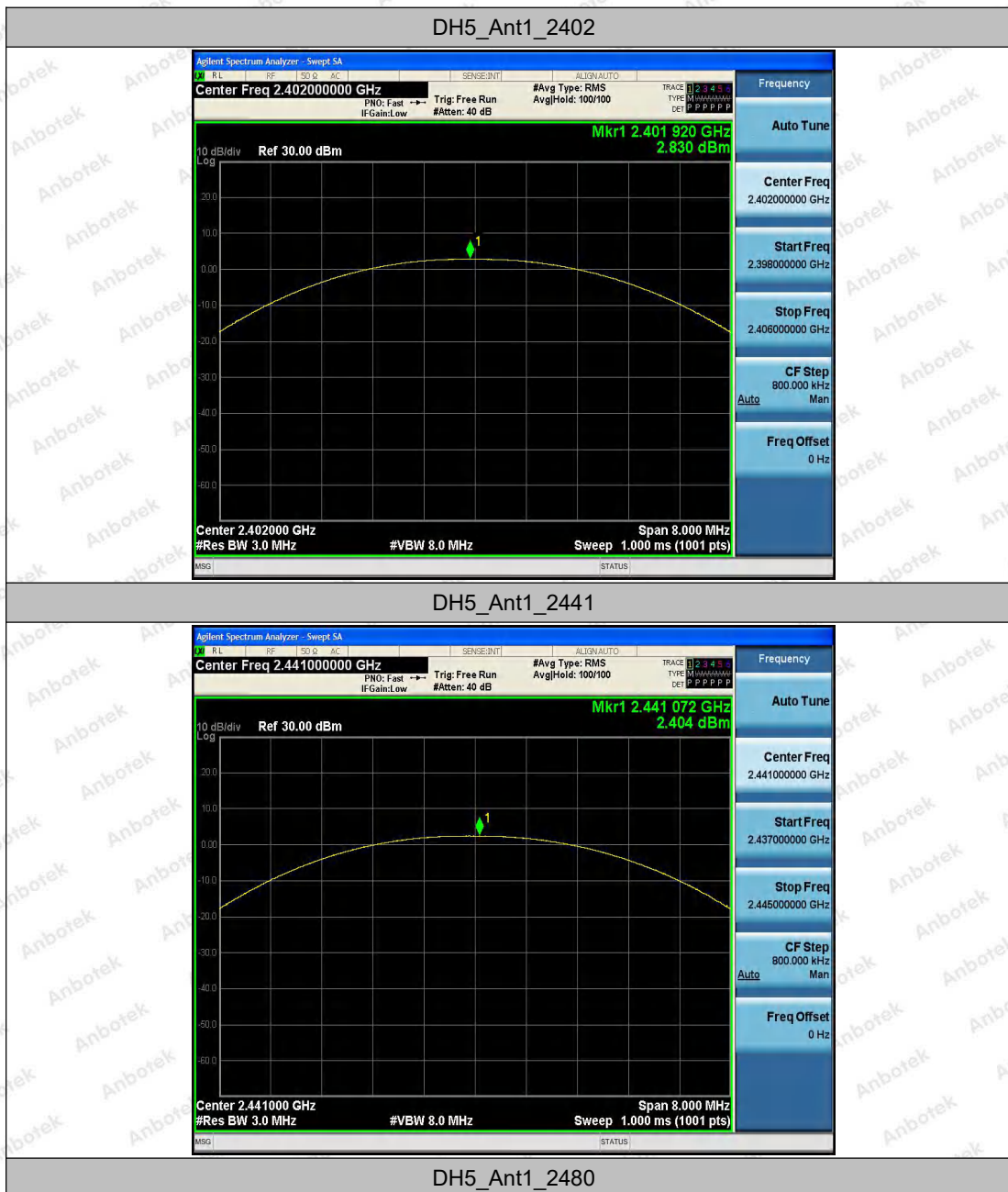


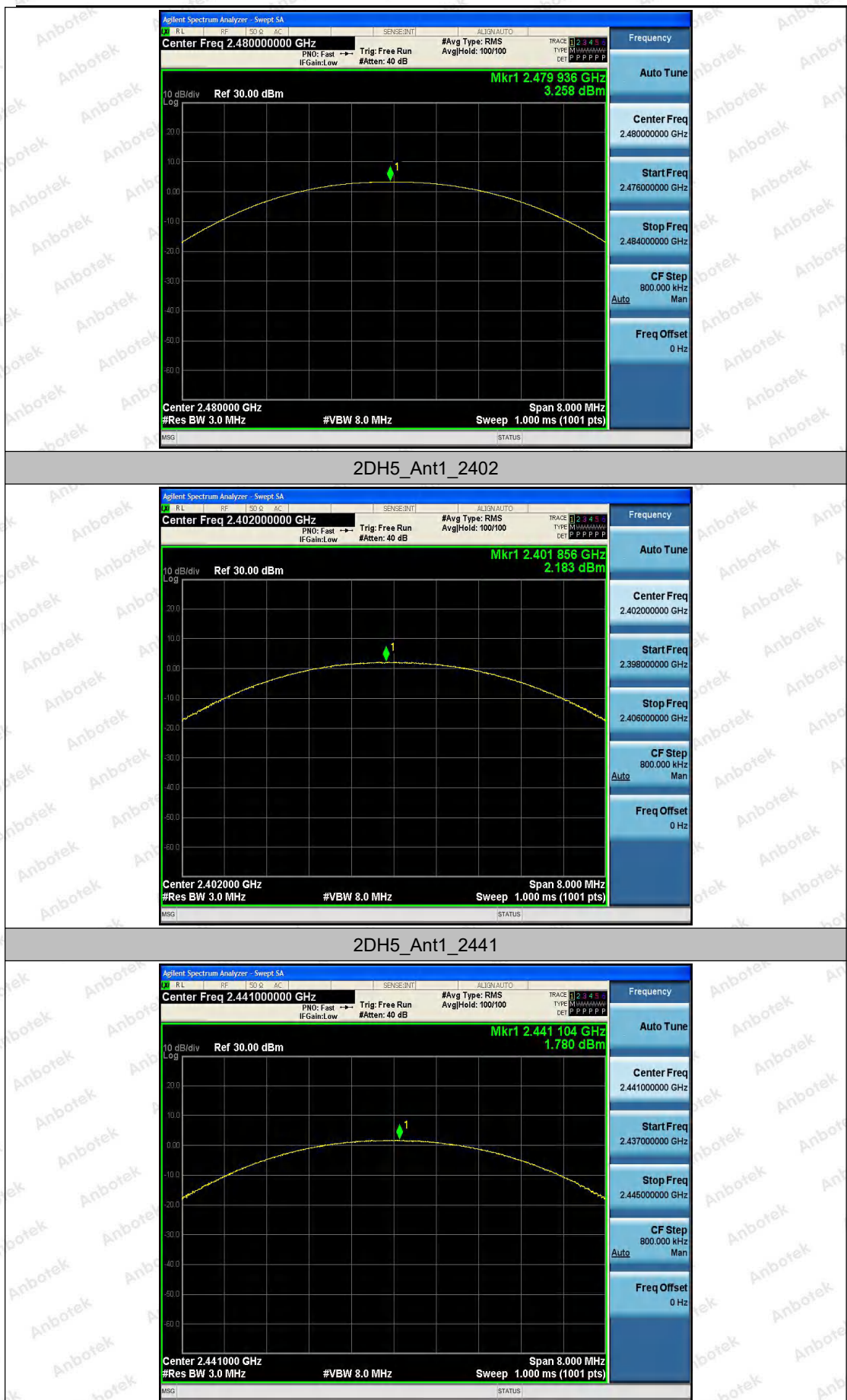
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.83	≤20.97	PASS
		2441	2.4	≤20.97	PASS
		2480	3.26	≤20.97	PASS
2DH5	Ant1	2402	2.18	≤20.97	PASS
		2441	1.78	≤20.97	PASS
		2480	2.53	≤20.97	PASS
3DH5	Ant1	2402	2.24	≤20.97	PASS
		2441	1.81	≤20.97	PASS
		2480	2.62	≤20.97	PASS

Test Graphs





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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.3	≥ 0.945	PASS
2DH5	Ant1	Hop	1.322	≥ 1.320	PASS
3DH5	Ant1	Hop	1.312	≥ 0.876	PASS

Test Graphs

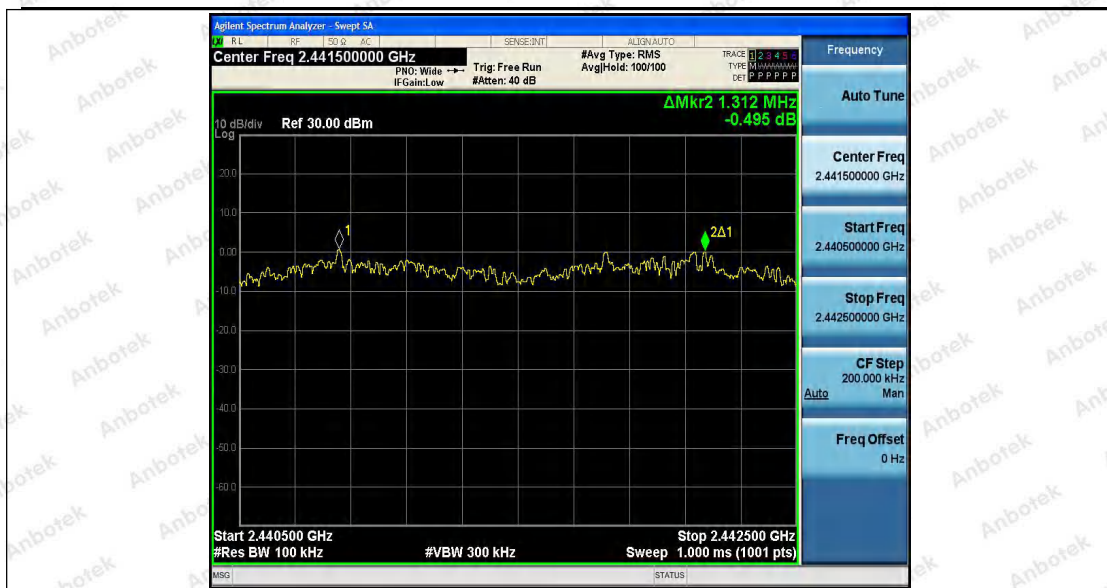


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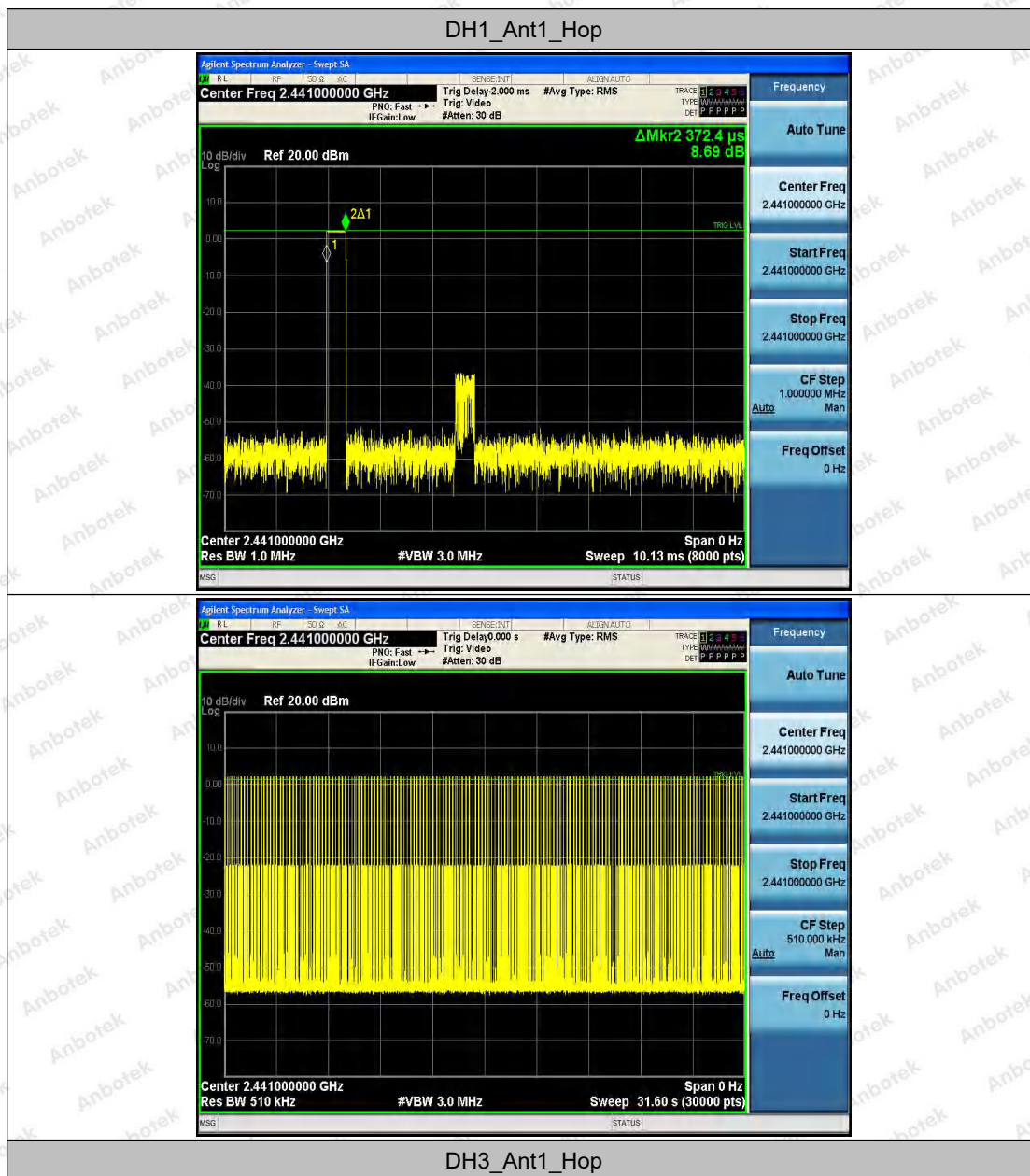
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Appendix E: Time of occupancy

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	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS

Test Graphs



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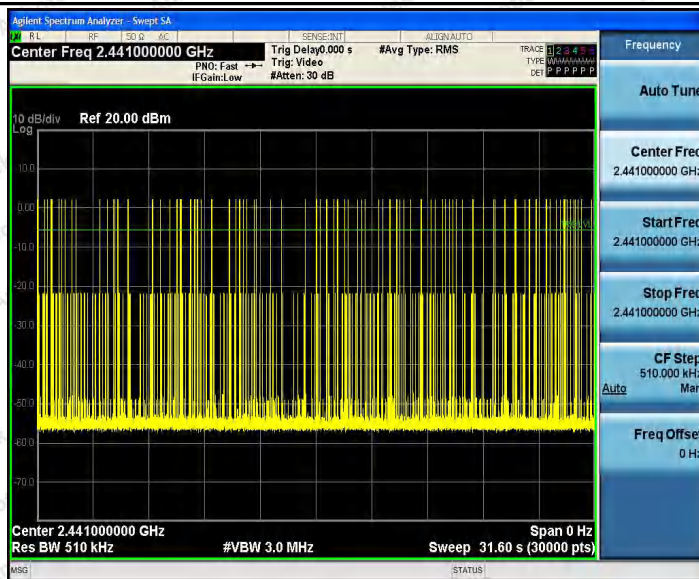
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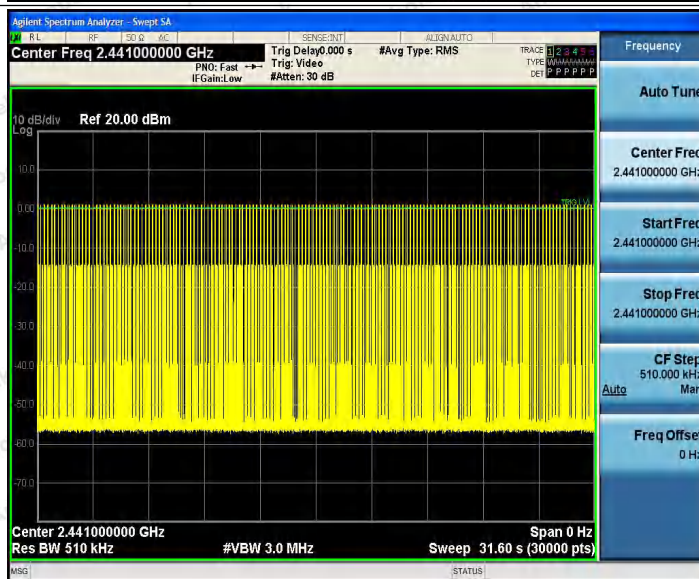
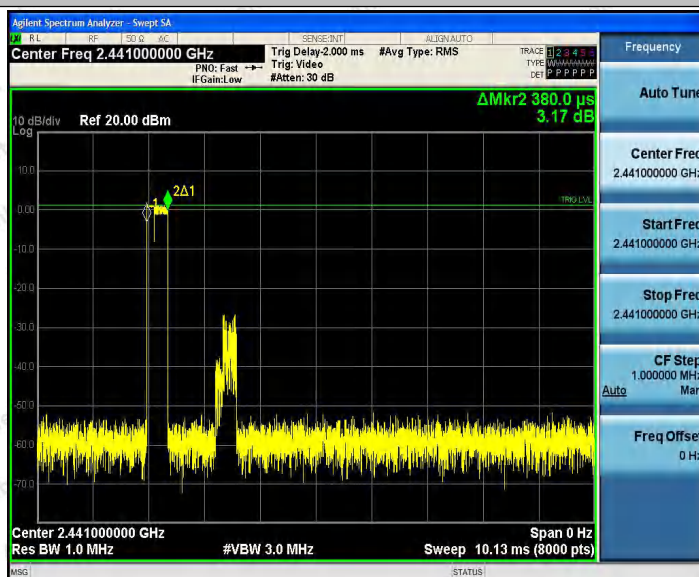
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DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

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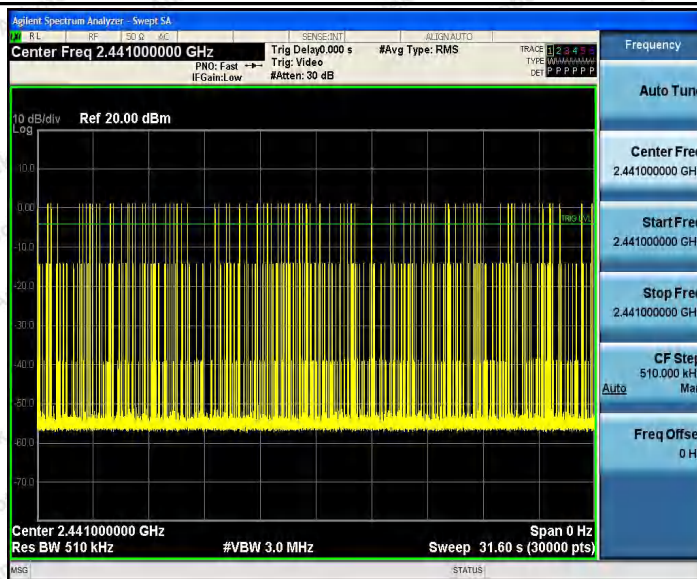


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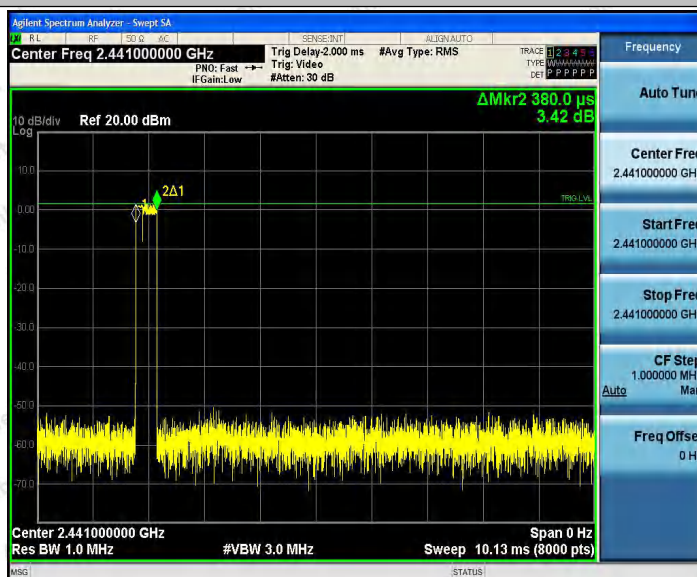
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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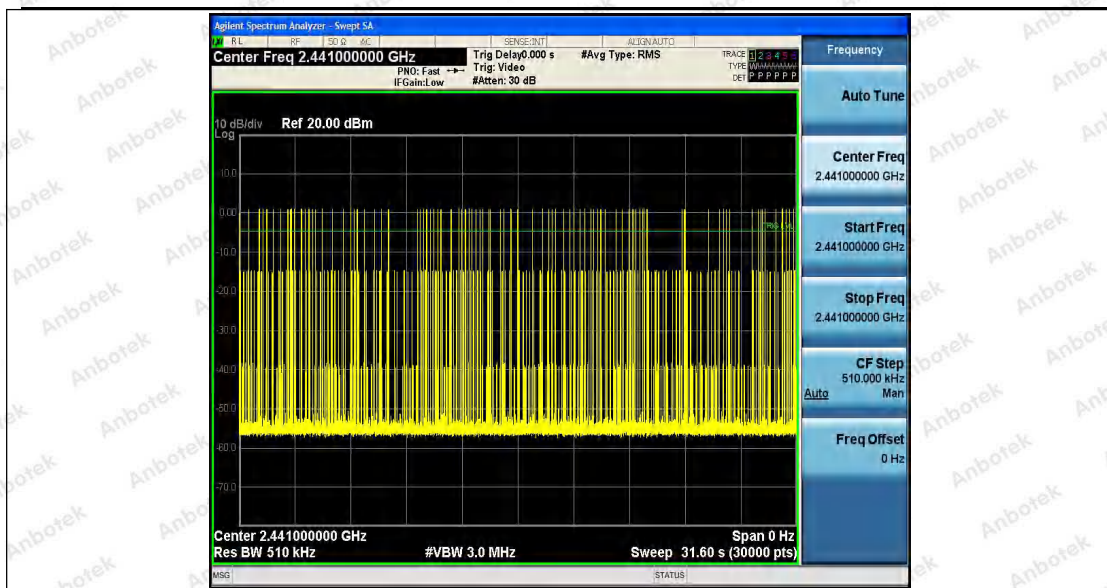
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3DH5_Ant1_Hop



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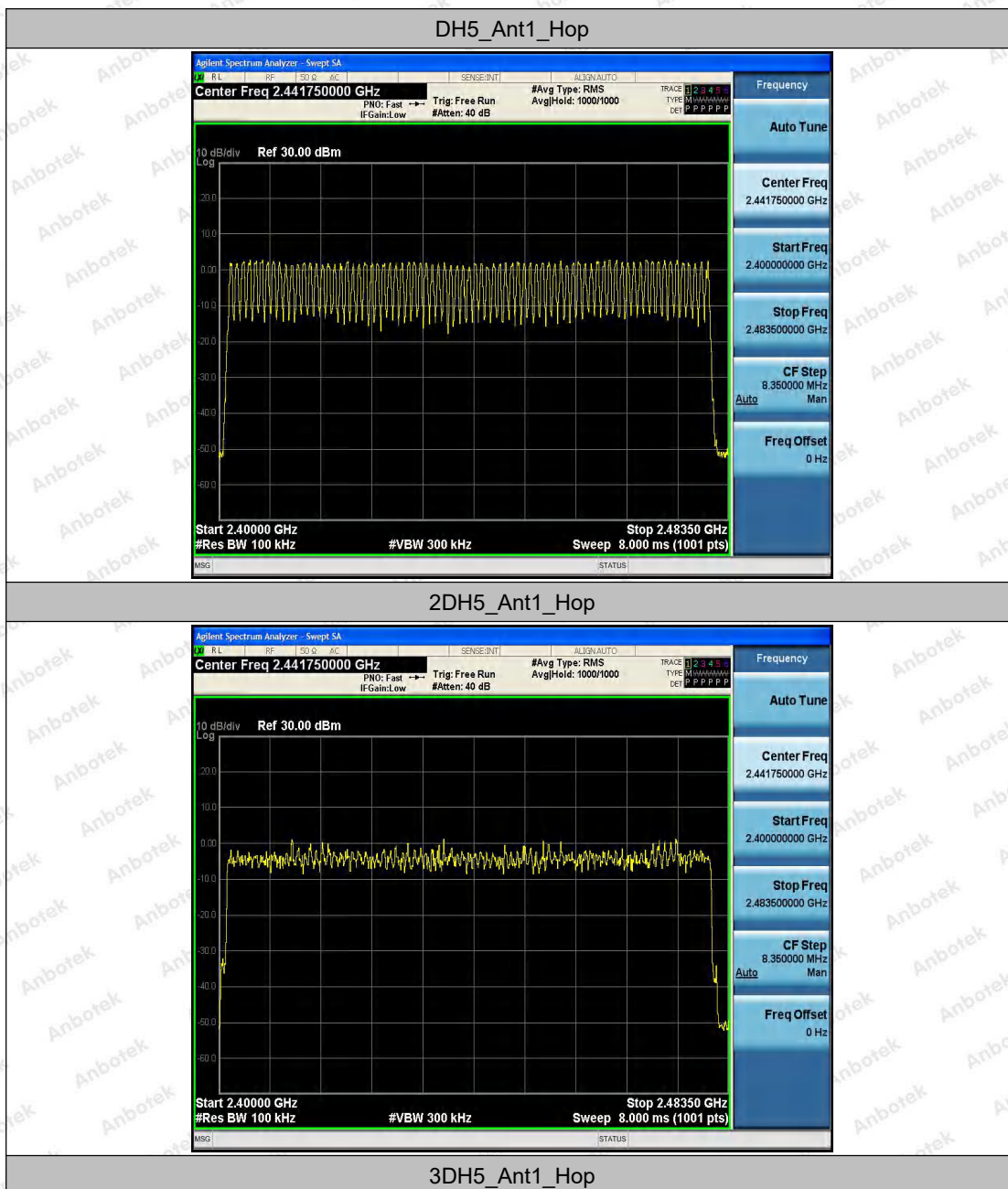
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Appendix F: Number of hopping channels

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

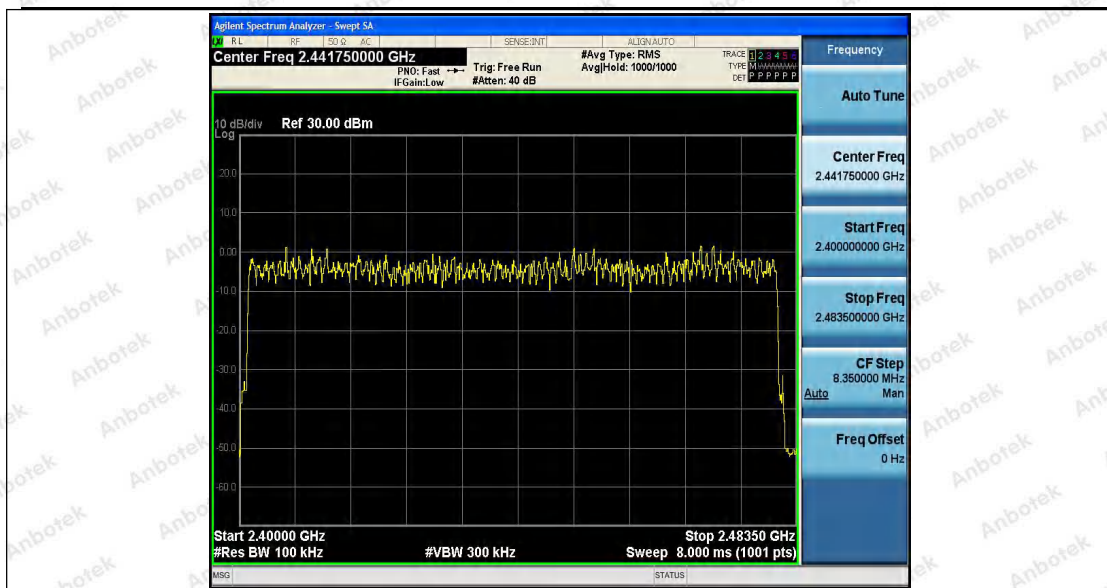


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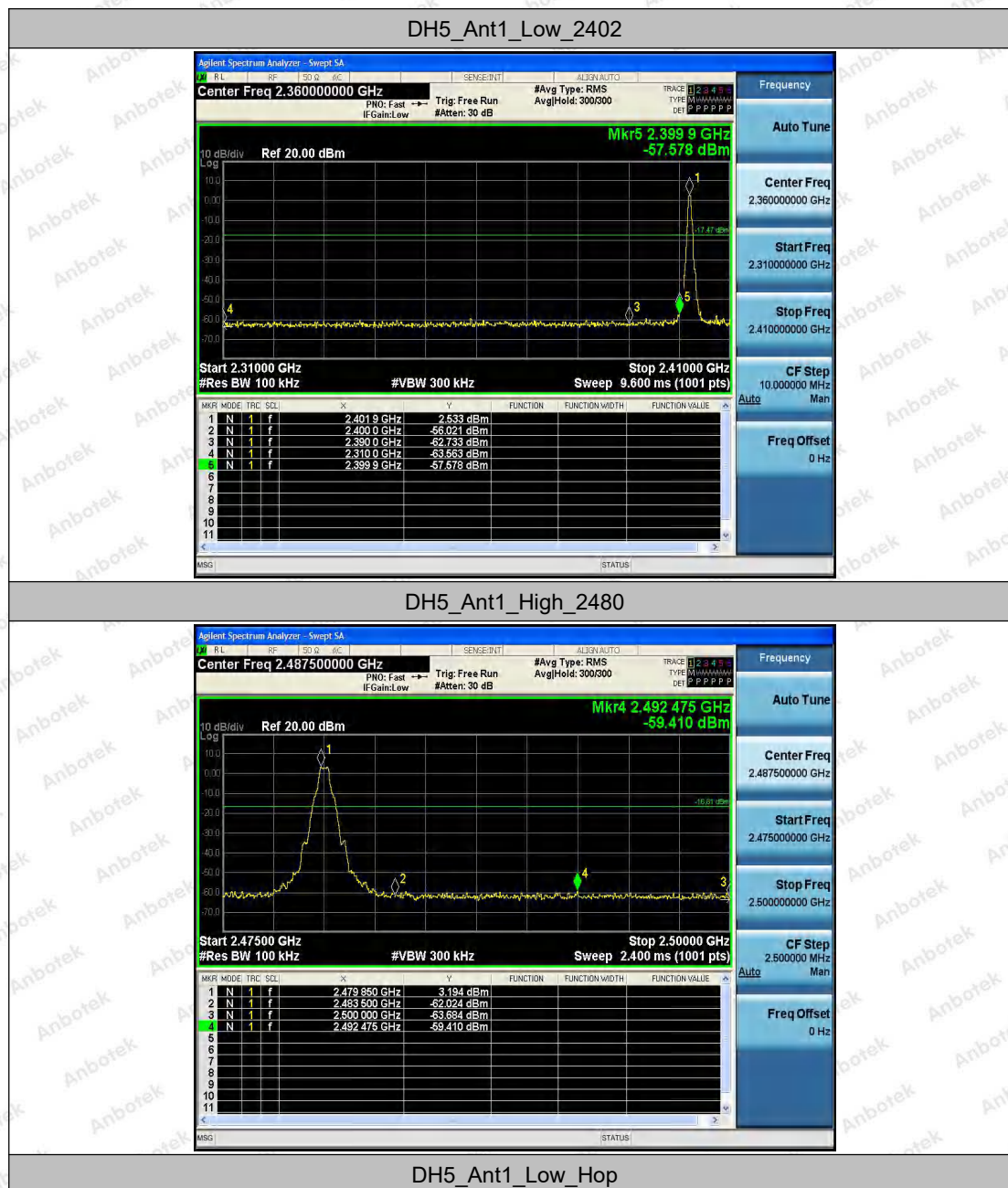
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Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.53	-57.58	≤-17.47	PASS
		High	2480	3.19	-59.41	≤-16.81	PASS
		Low	Hop	2.08	-60.04	≤-17.92	PASS
		High	Hop	2.72	-62.92	≤-17.28	PASS
2DH5	Ant1	Low	2402	1.20	-54.74	≤-18.8	PASS
		High	2480	1.82	-58.85	≤-18.18	PASS
		Low	Hop	0.32	-60.24	≤-19.68	PASS
		High	Hop	-0.79	-60.48	≤-20.79	PASS
3DH5	Ant1	Low	2402	1.26	-55.08	≤-18.74	PASS
		High	2480	1.41	-58.53	≤-18.59	PASS
		Low	Hop	1.23	-60.08	≤-18.77	PASS
		High	Hop	-1.77	-62.29	≤-21.77	PASS

Test Graphs

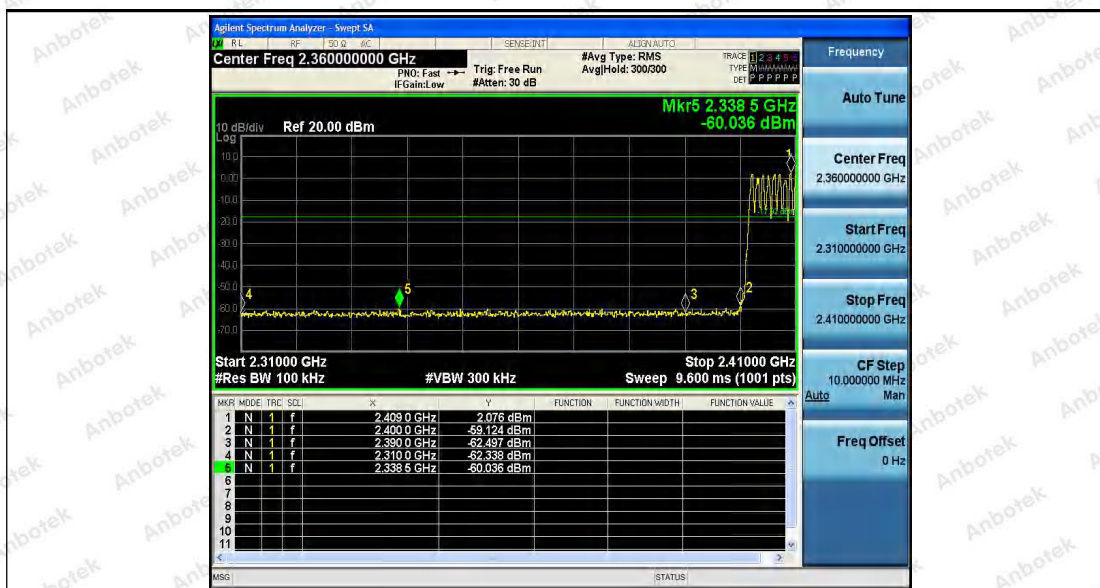


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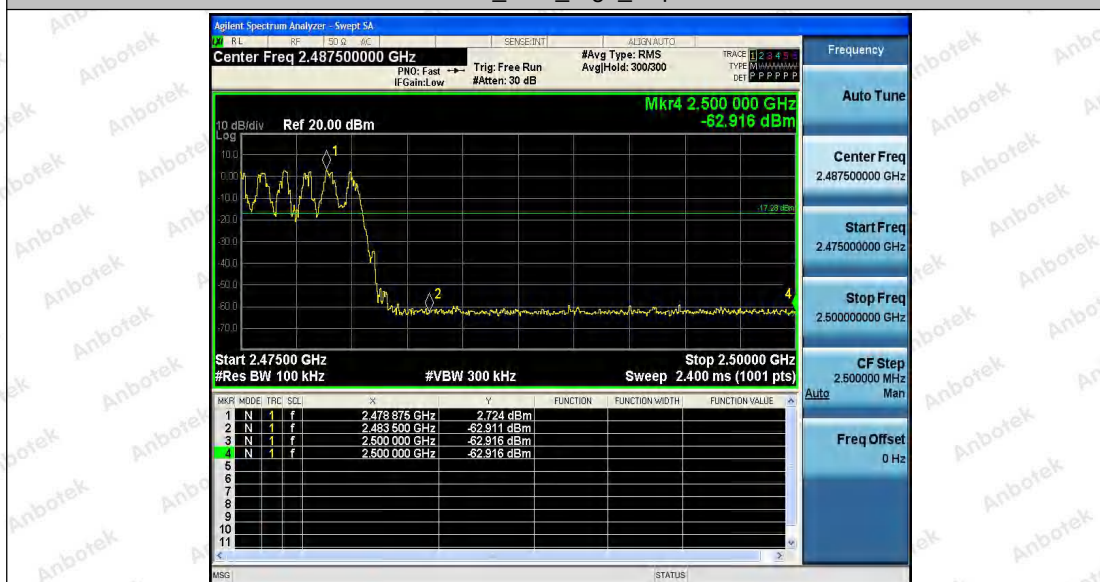
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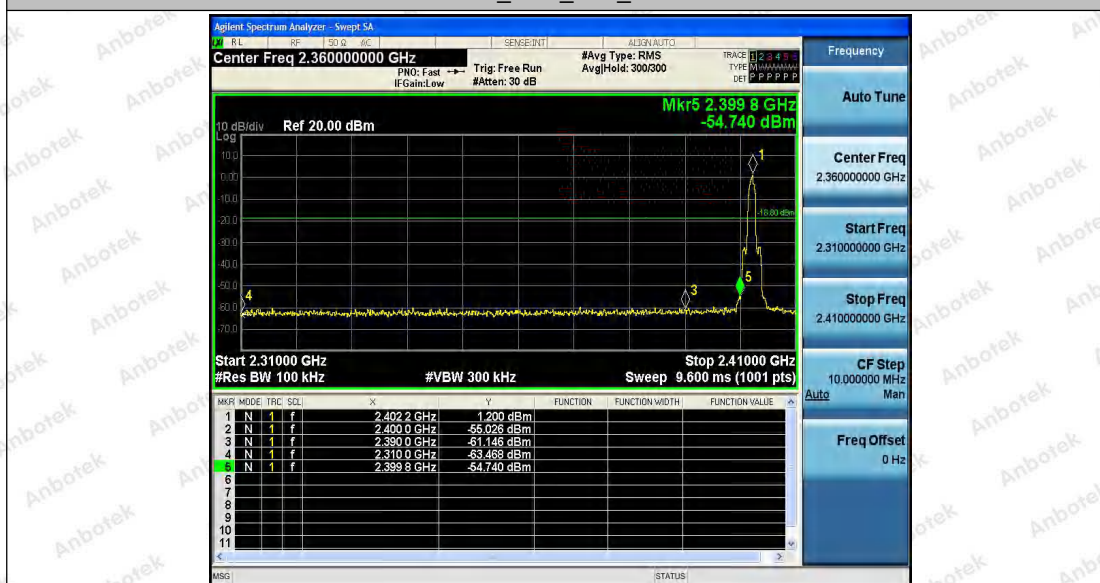
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



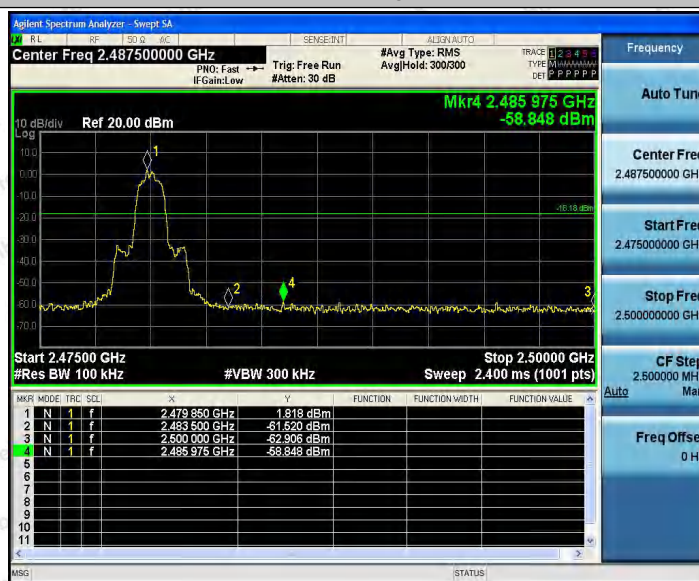
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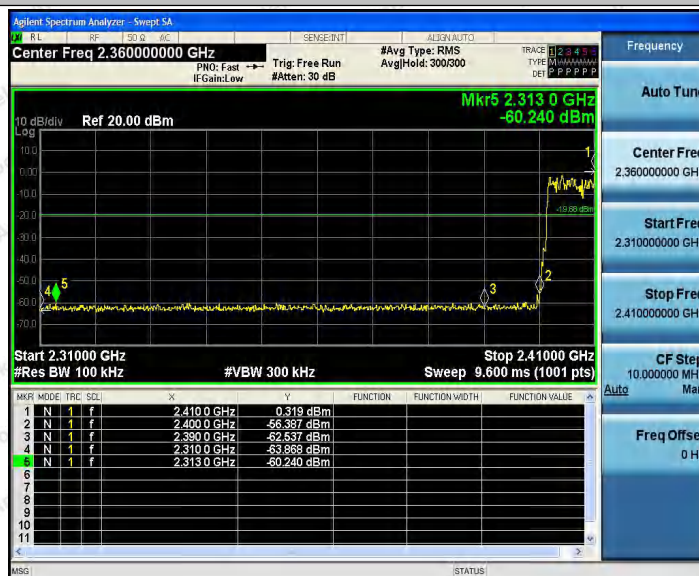
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



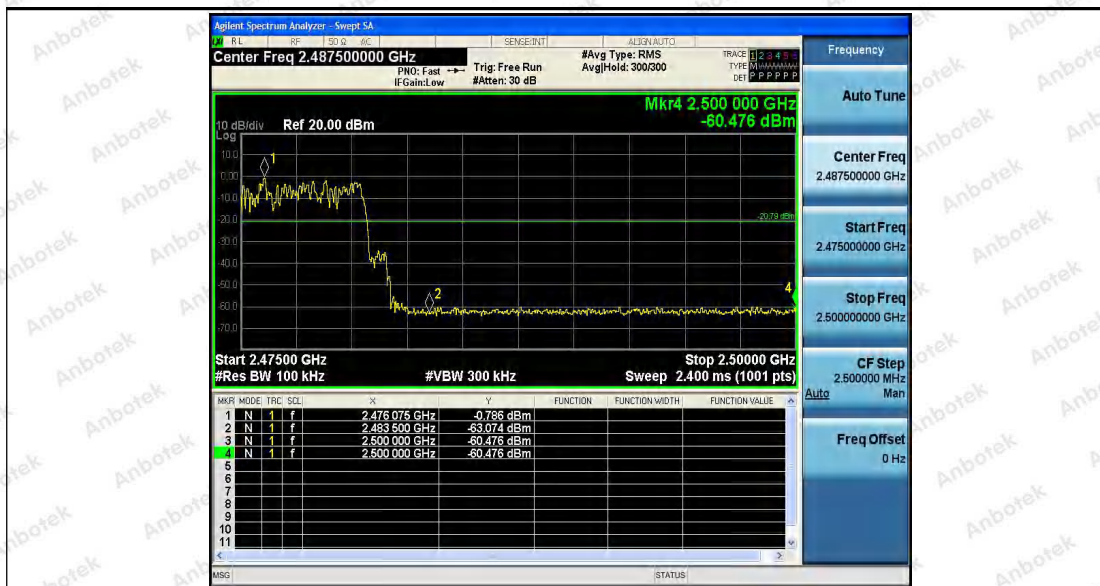
2DH5_Ant1_High_Hop

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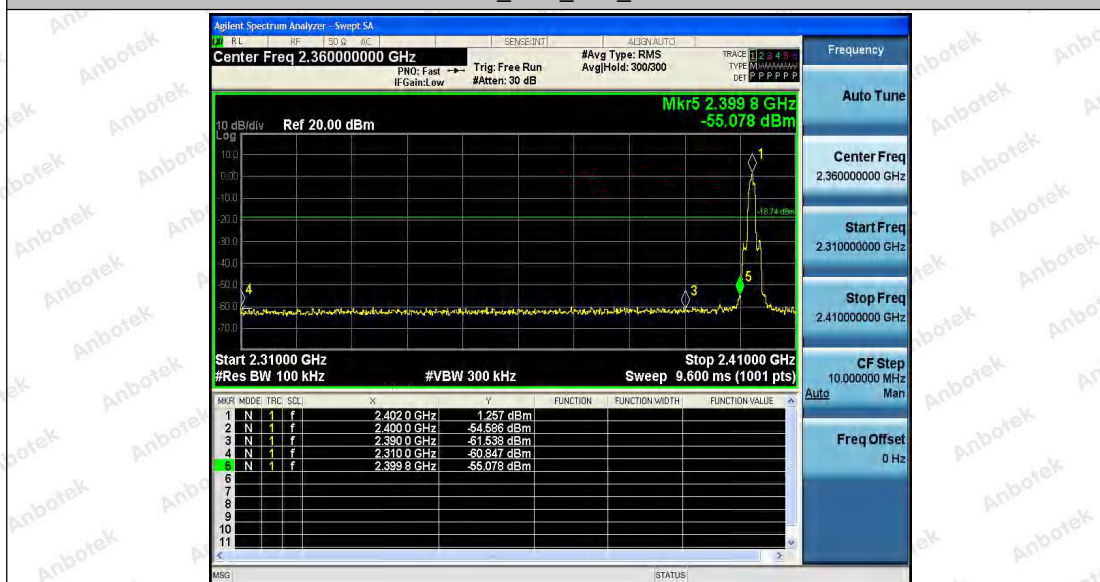
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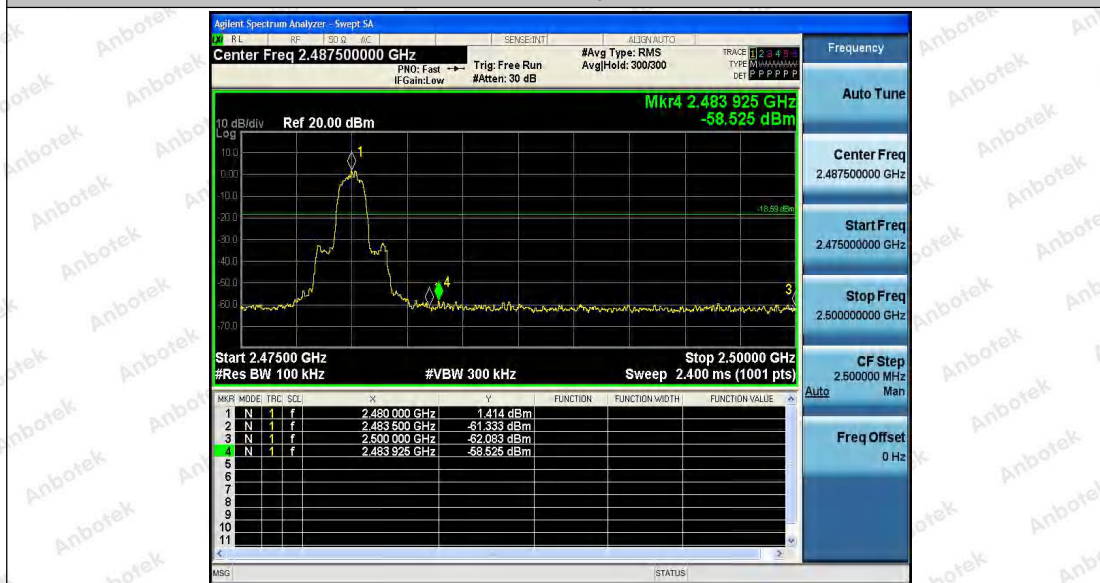
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

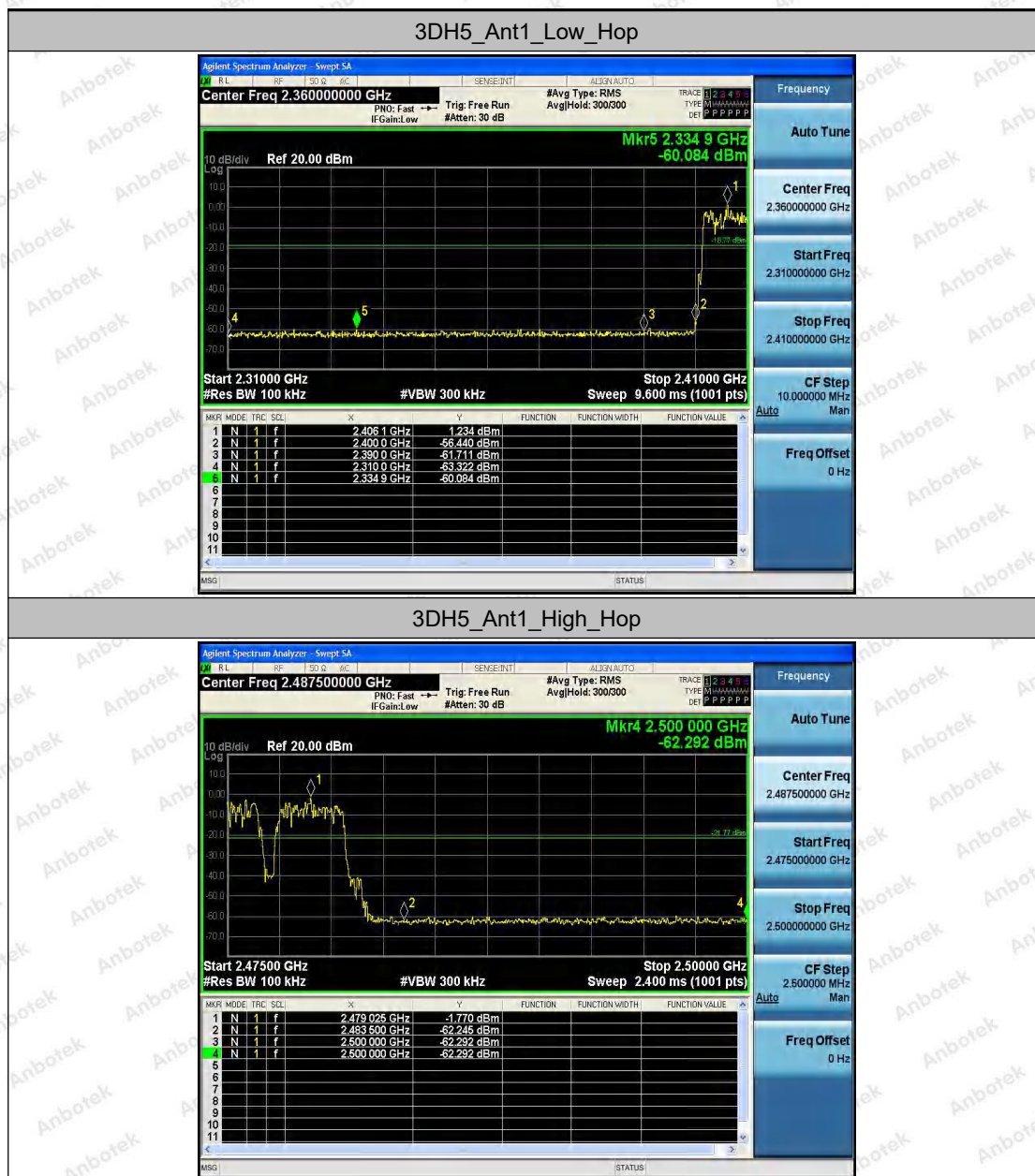


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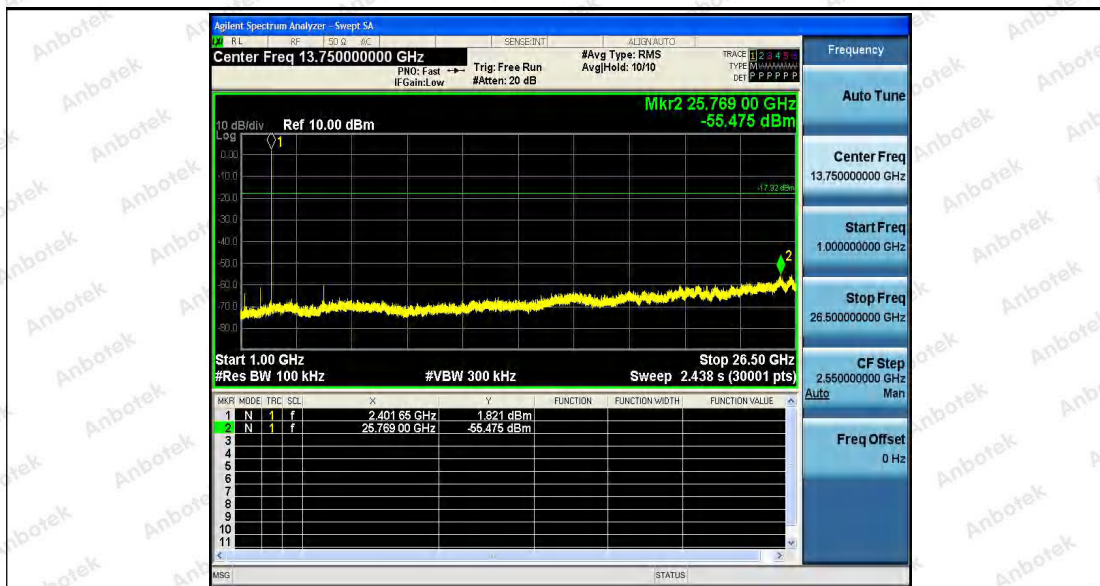
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Appendix H: Conducted Spurious Emission

Test Result

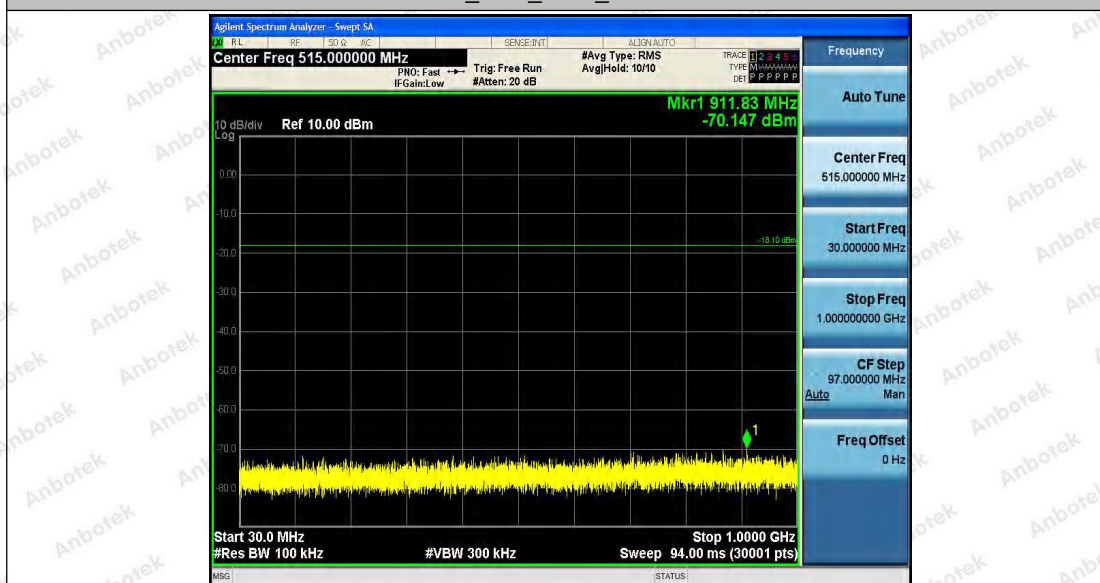
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.08	2.08	---	PASS
			30~1000	2.08	-70.71	≤-17.92	PASS
			1000~26500	2.08	-55.48	≤-17.92	PASS
		2441	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-70.15	≤-18.1	PASS
			1000~26500	1.90	-55.48	≤-18.1	PASS
		2480	Reference	3.07	3.07	---	PASS
			30~1000	3.07	-70.19	≤-16.93	PASS
			1000~26500	3.07	-55.76	≤-16.93	PASS
2DH5	Ant1	2402	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-70.68	≤-18.81	PASS
			1000~26500	1.19	-54.72	≤-18.81	PASS
		2441	Reference	0.99	0.99	---	PASS
			30~1000	0.99	-70.93	≤-19.01	PASS
			1000~26500	0.99	-56.13	≤-19.01	PASS
		2480	Reference	1.28	1.28	---	PASS
			30~1000	1.28	-70.5	≤-18.72	PASS
			1000~26500	1.28	-55.19	≤-18.72	PASS
3DH5	Ant1	2402	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-70.39	≤-19.29	PASS
			1000~26500	0.71	-55.82	≤-19.29	PASS
		2441	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-70.93	≤-19.06	PASS
			1000~26500	0.94	-55.95	≤-19.06	PASS
		2480	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-70.24	≤-18.6	PASS
			1000~26500	1.41	-55.82	≤-18.6	PASS



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



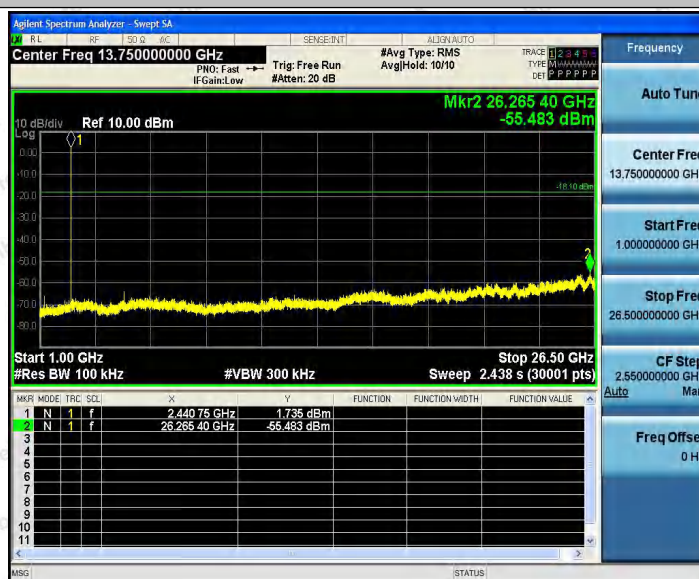
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



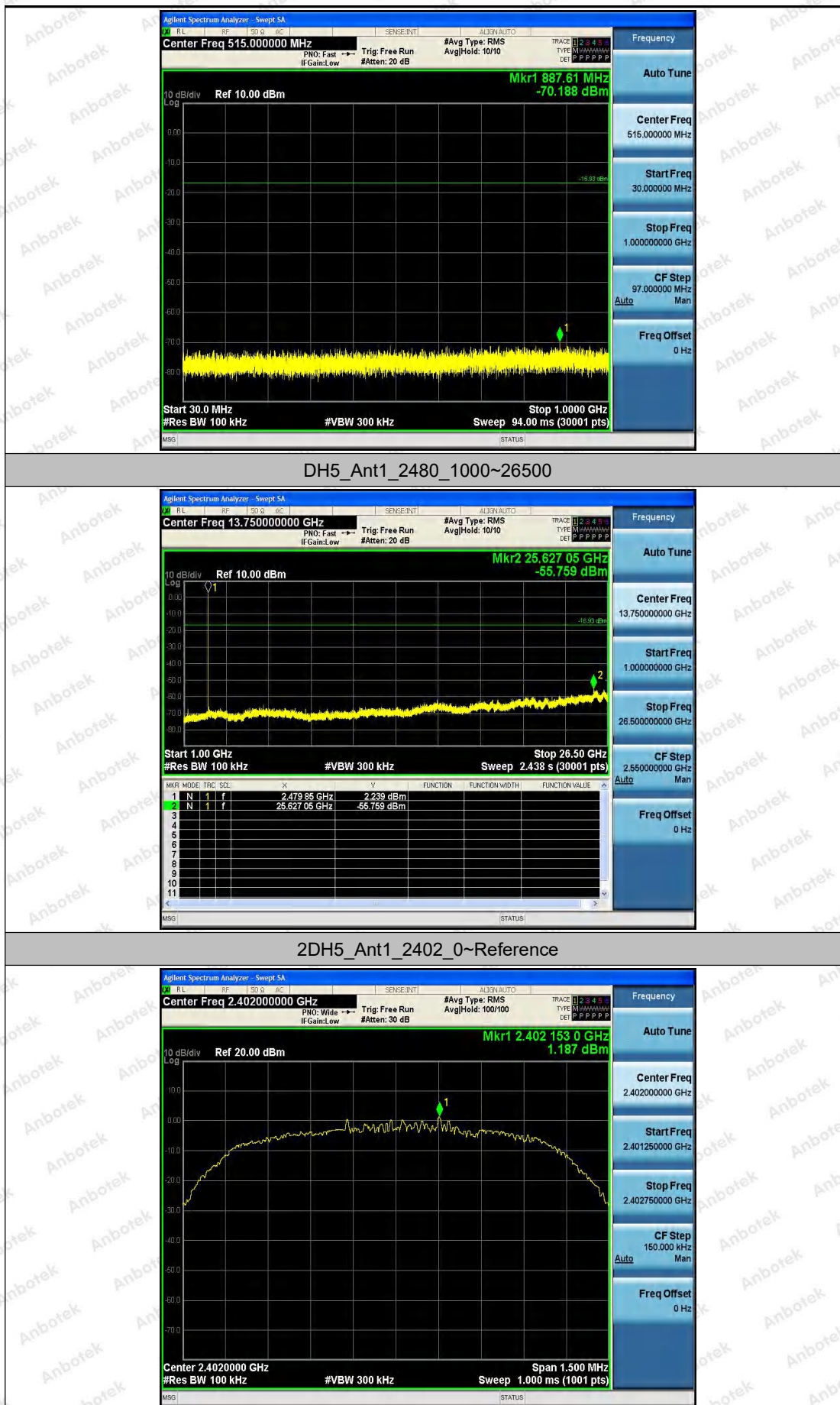
DH5_Ant1_2480_30~1000

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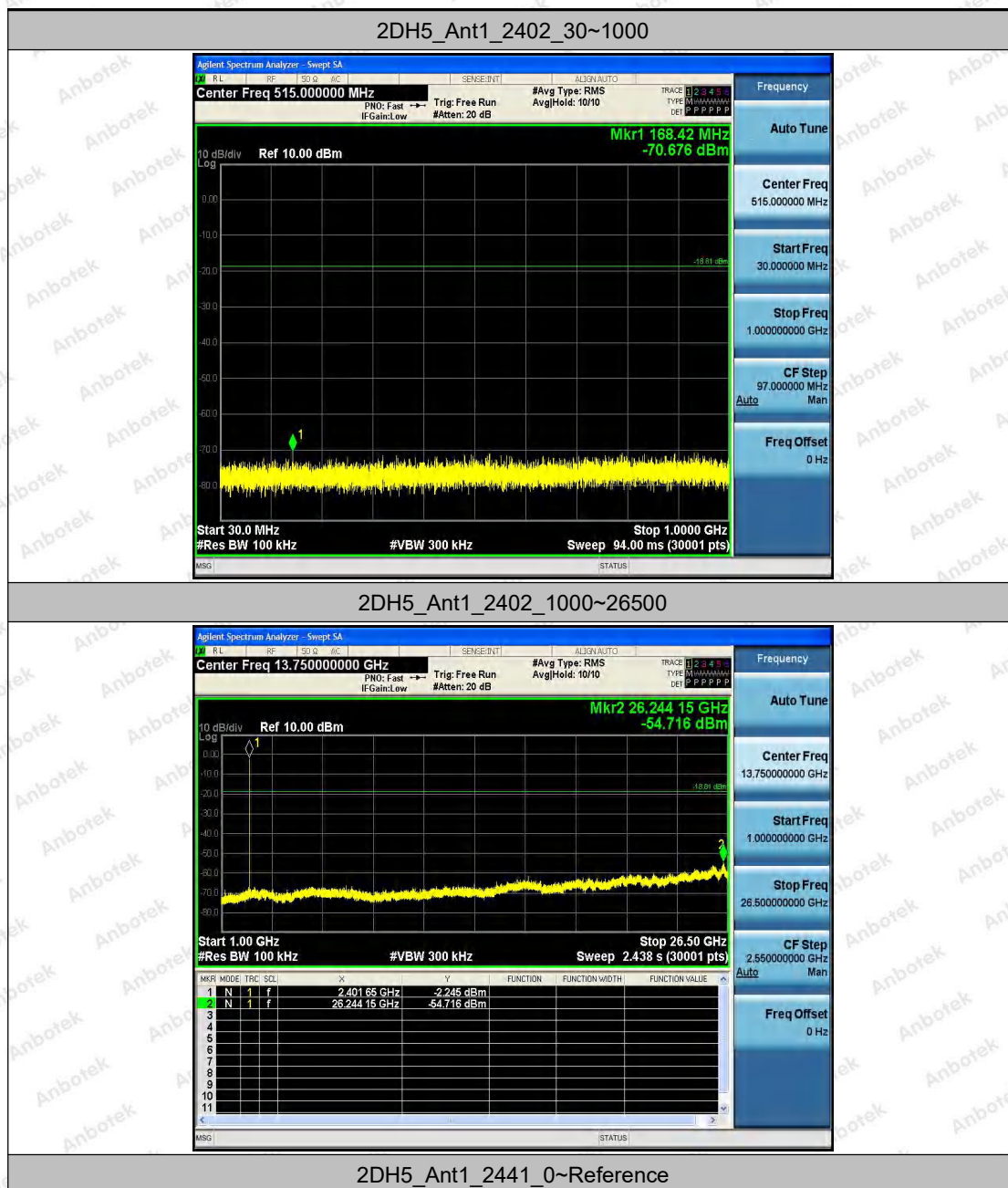


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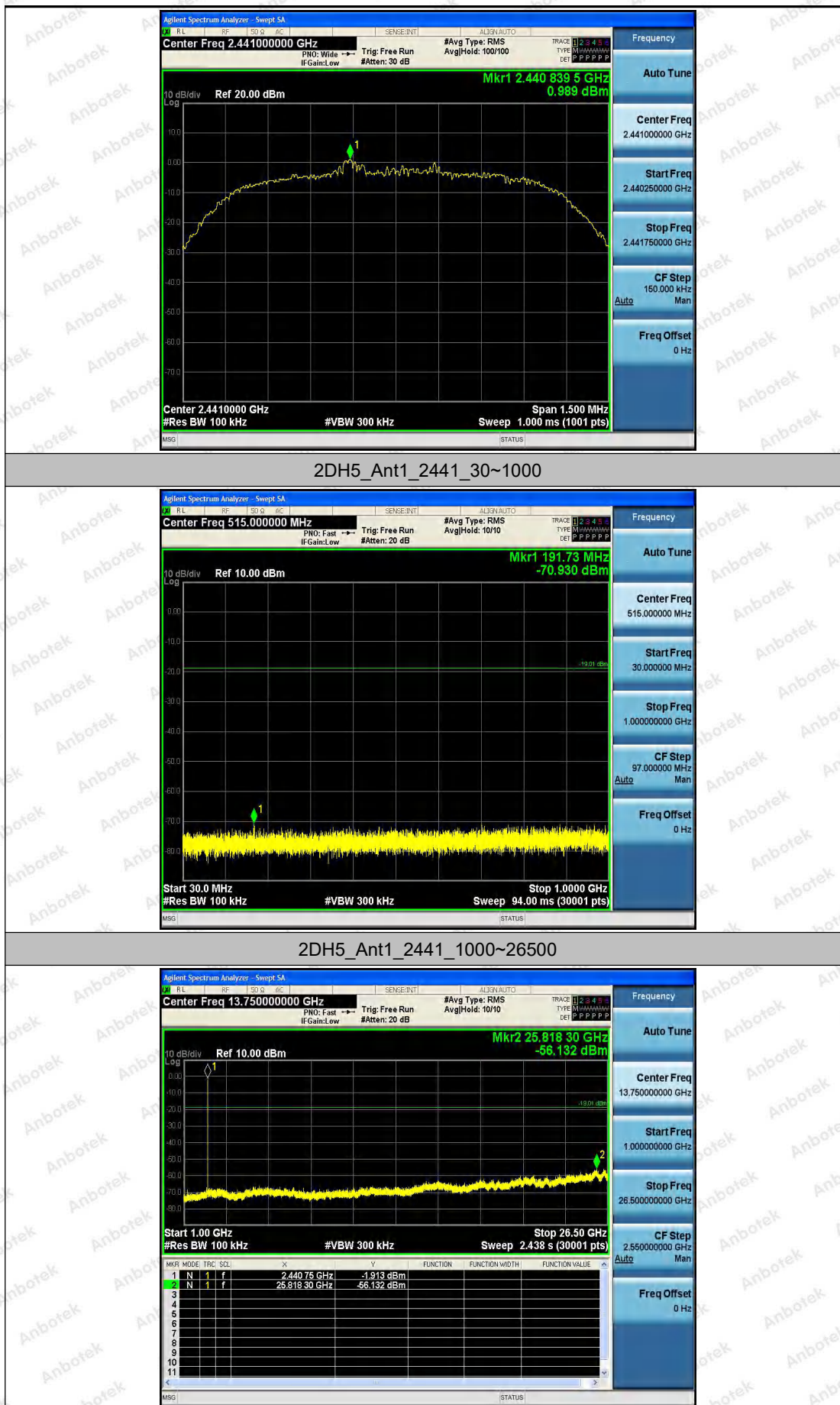


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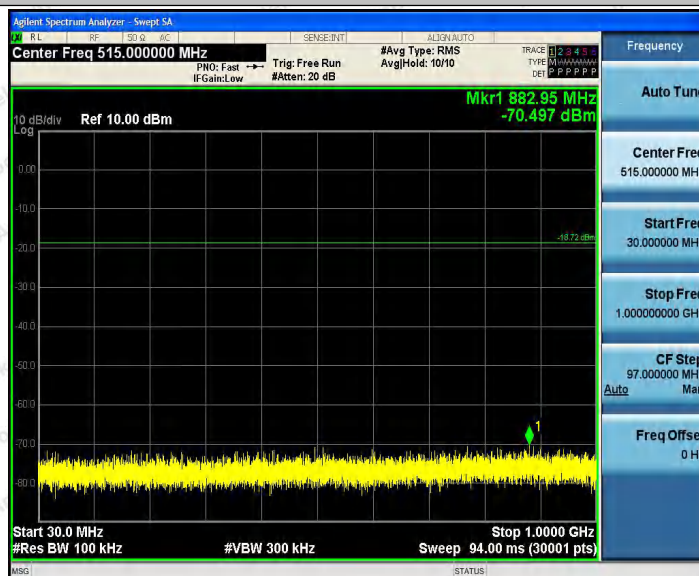
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



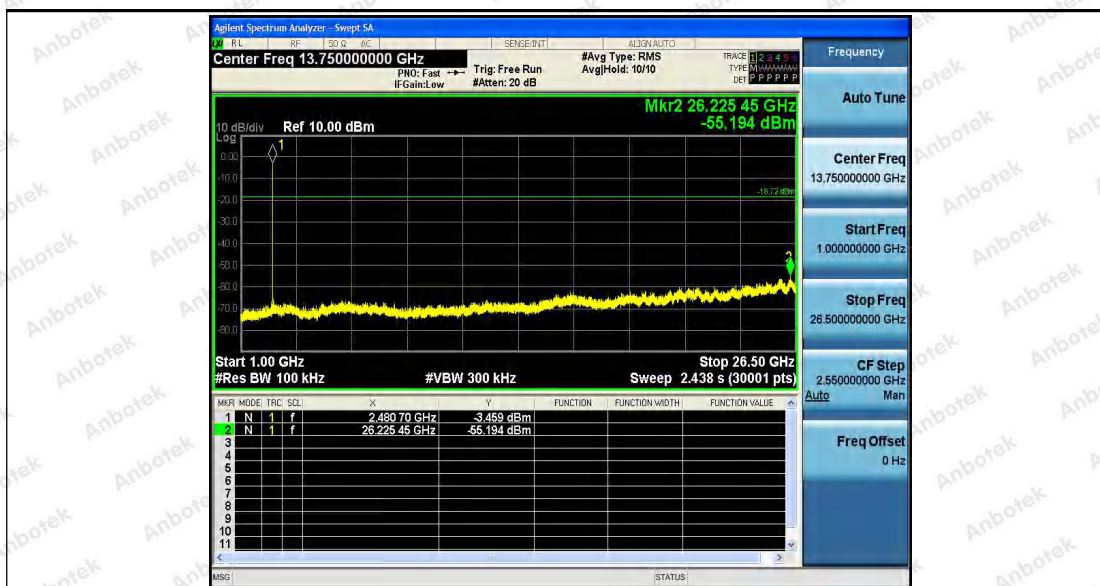
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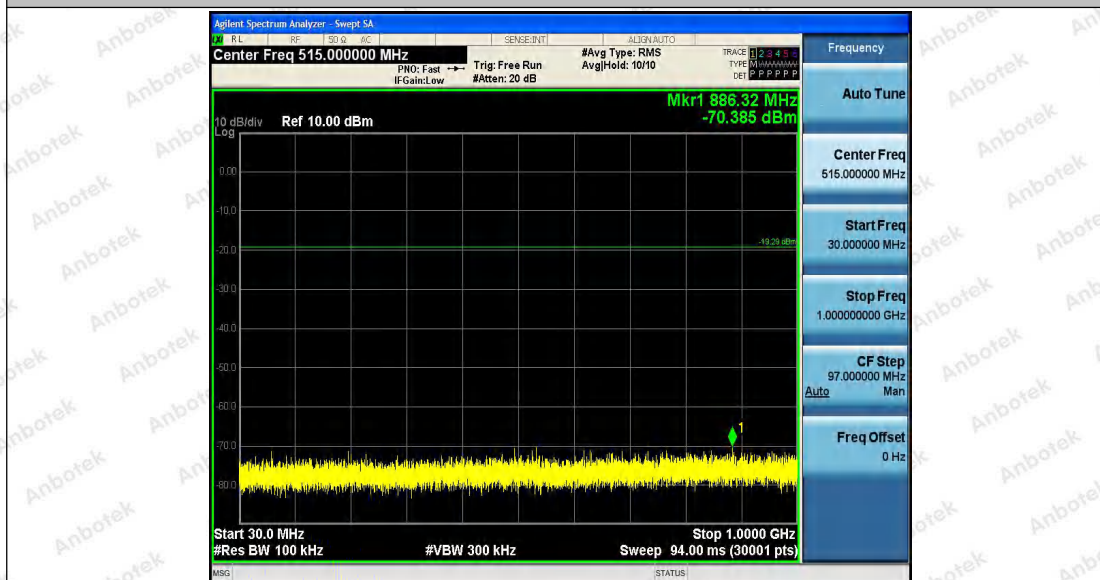
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3DH5_Ant1_2402_0~Reference



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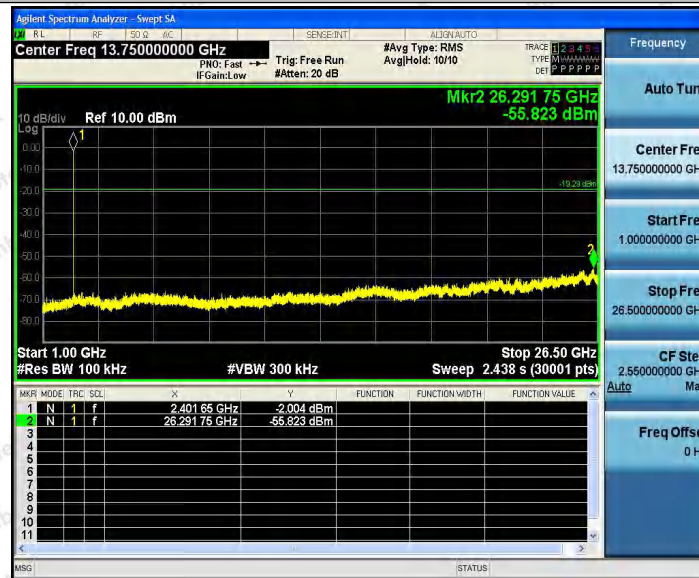
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



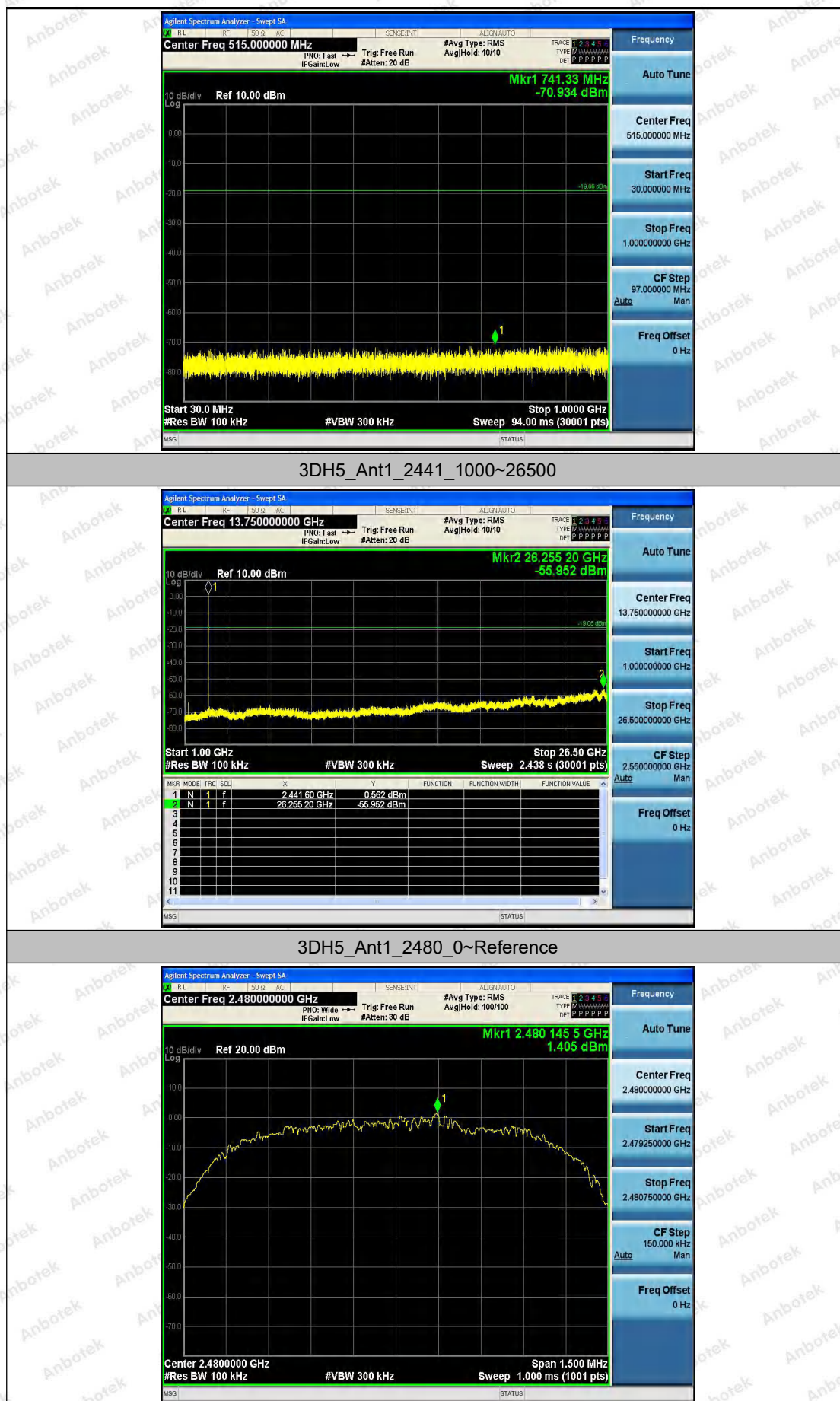
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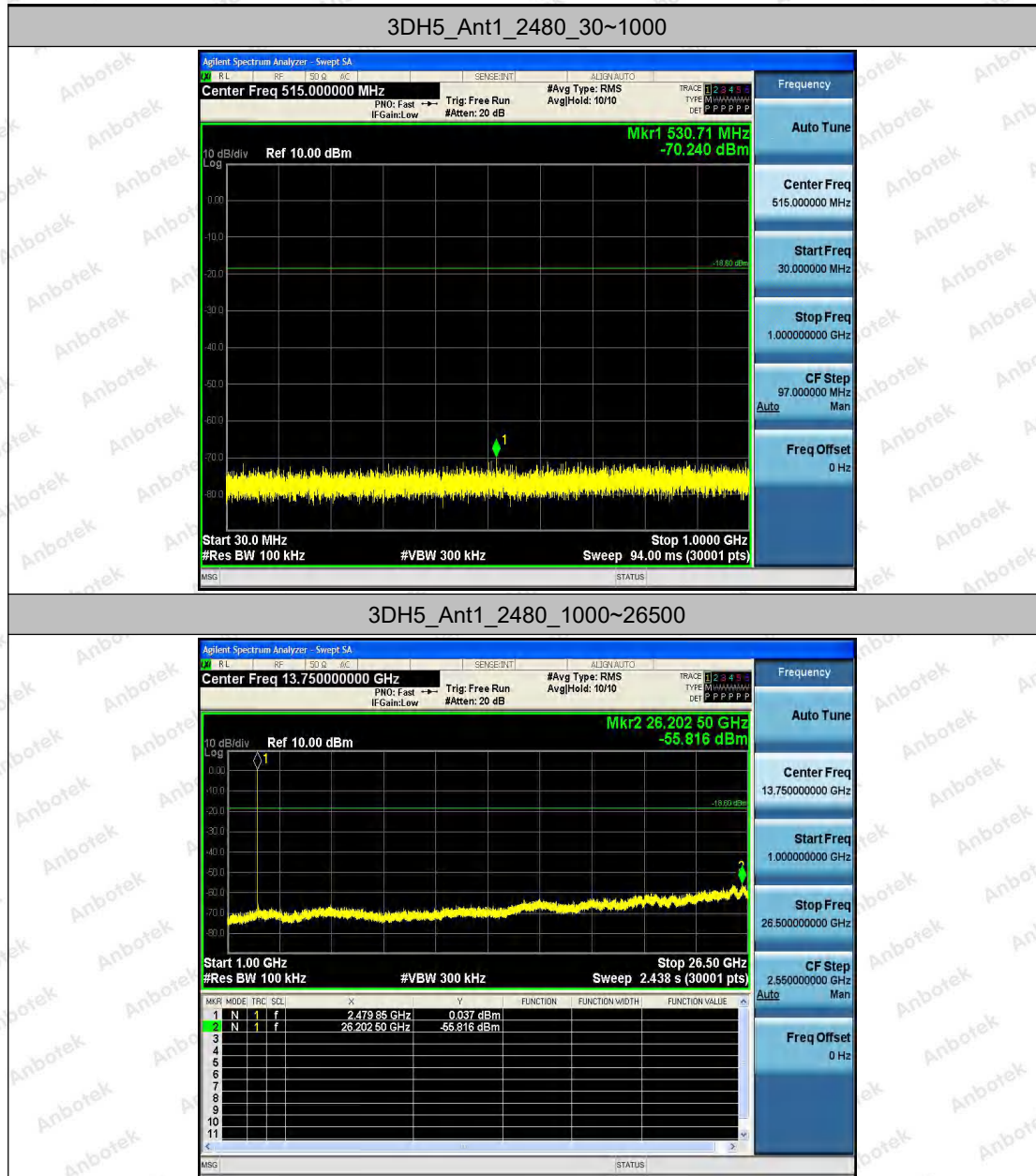


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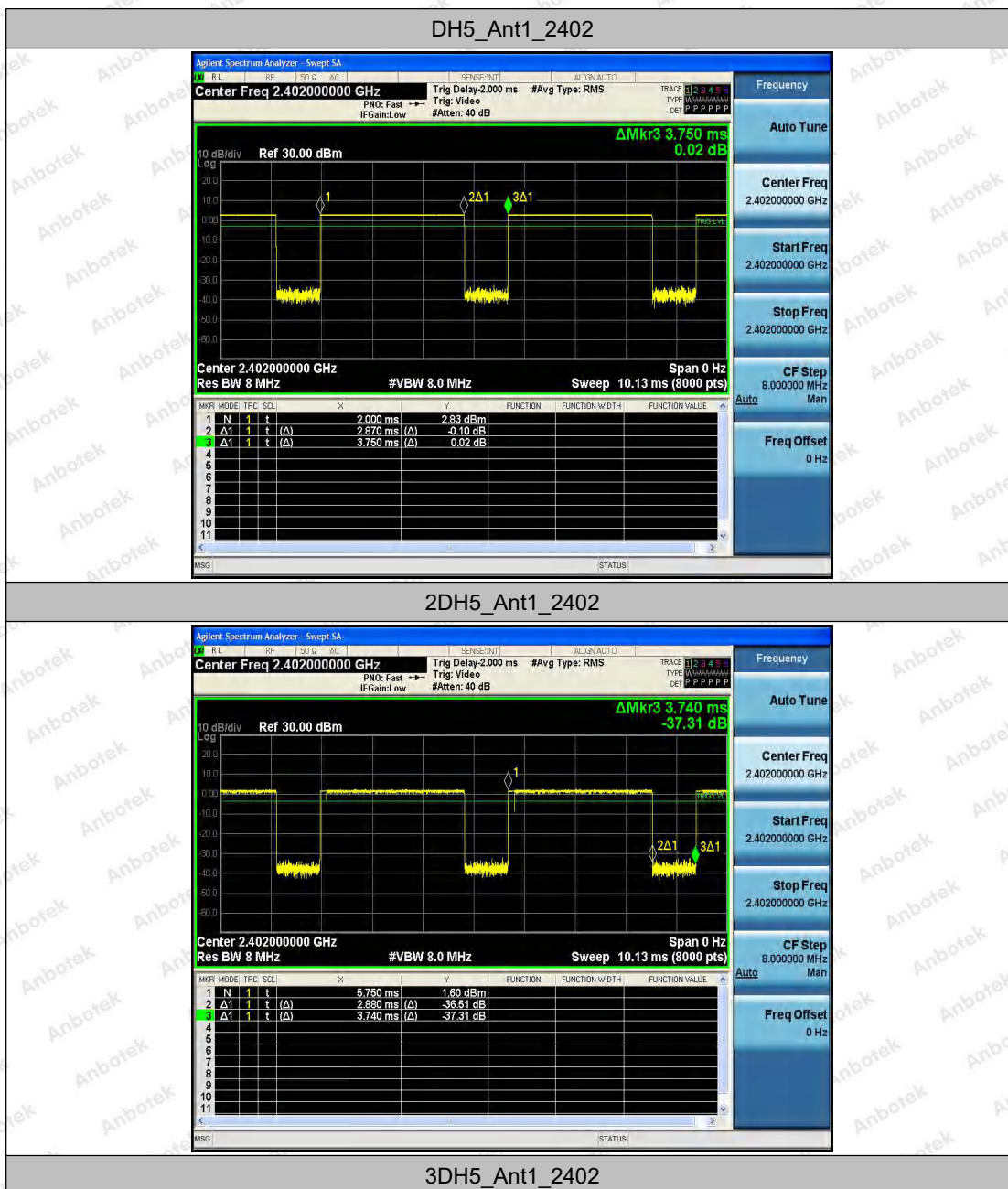
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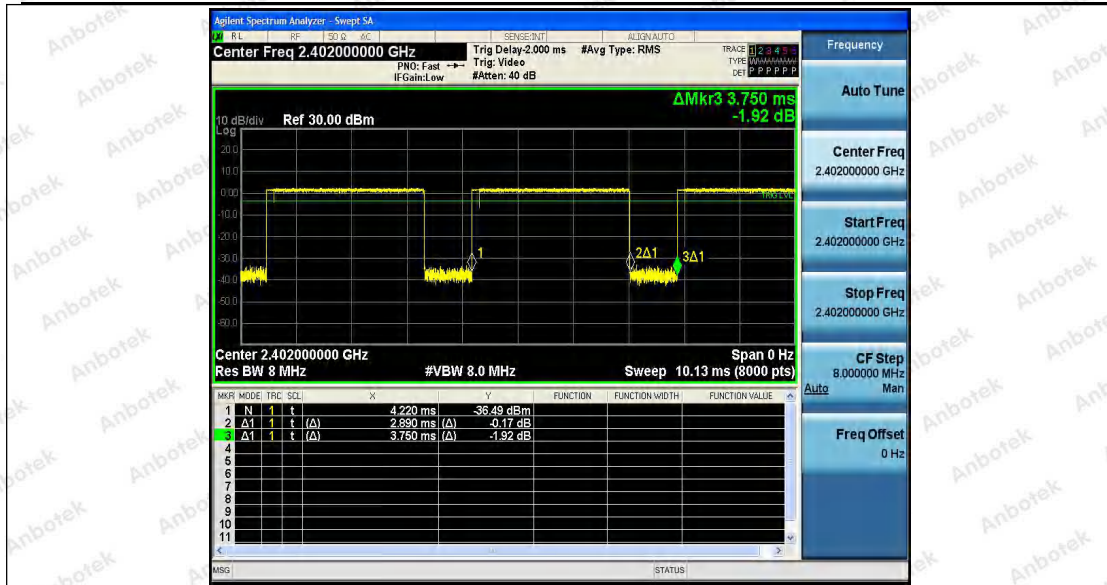
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---