

Appendix Test Data

Report No.:	18220WC20042901	Test Sample No.:	1-2-2
Start Test Date:	2022.3.4	Finish Test Date:	2022.3.11
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3℃	Relative Humidity:	55.6 %
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	0.951	2401.535	2402.486	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.263	2401.367	2402.630	---	PASS
		2441	1.317	2440.337	2441.654	---	PASS
		2480	1.326	2479.334	2480.660	---	PASS
3DH5	Ant1	2402	1.275	2401.349	2402.624	---	PASS
		2441	1.281	2440.346	2441.627	---	PASS
		2480	1.290	2479.352	2480.642	---	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	0.89007	2401.55 4	2402.444	---	PASS
		2441	0.89095	2440.55 5	2441.446	---	PASS
		2480	0.89740	2479.55 1	2480.448	---	PASS
2DH5	Ant1	2402	1.1944	2401.40 1	2402.596	---	PASS
		2441	1.1941	2440.40 1	2441.595	---	PASS
		2480	1.1902	2479.40 2	2480.592	---	PASS
3DH5	Ant1	2402	1.2089	2401.38 5	2402.594	---	PASS
		2441	1.2117	2440.38 3	2441.595	---	PASS
		2480	1.2029	2479.38 9	2480.592	---	PASS

Test Graphs

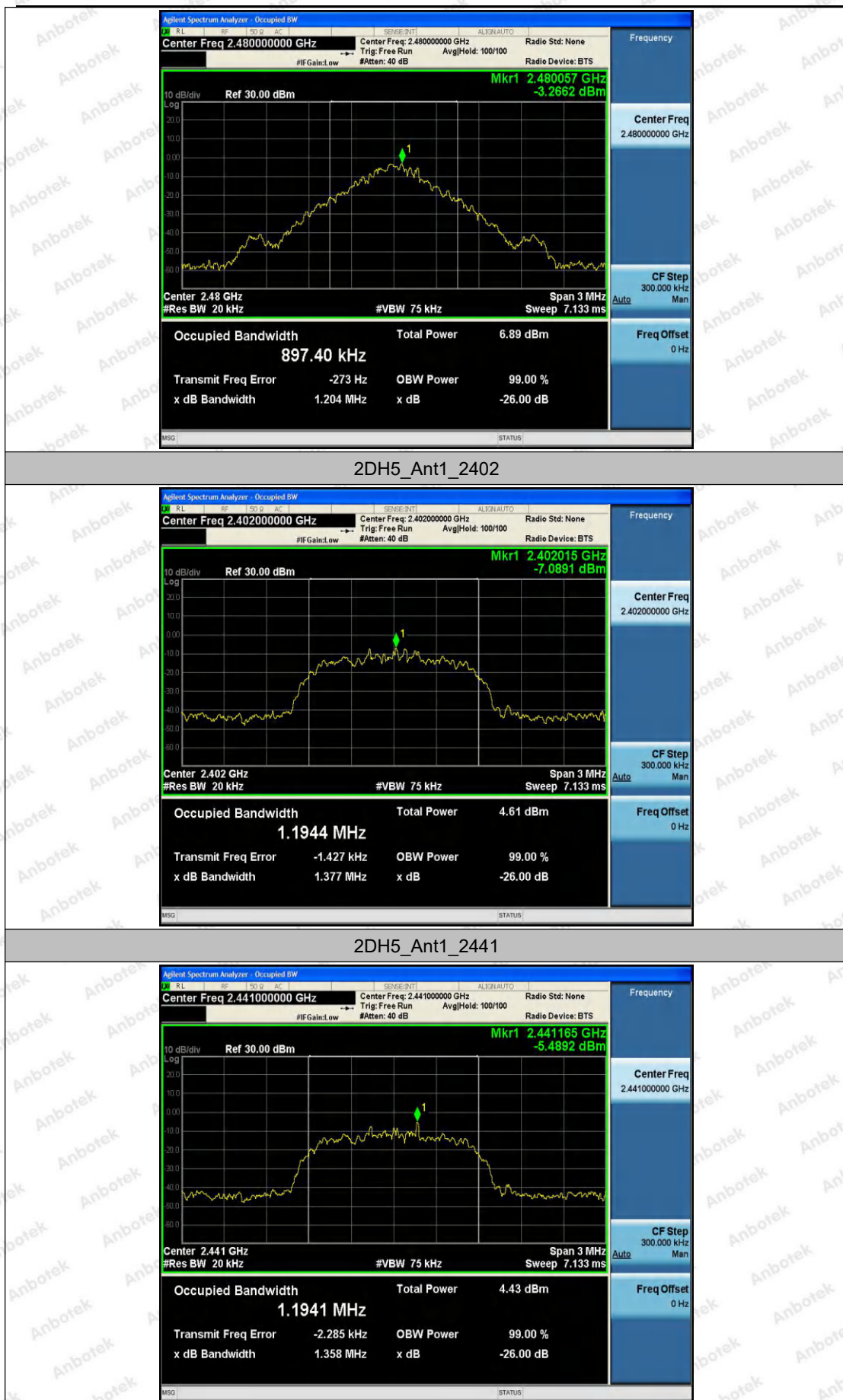


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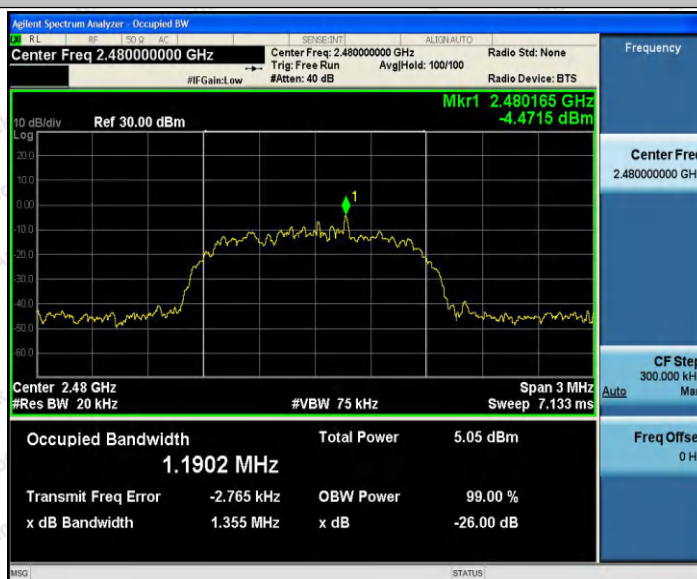
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2DH5_Ant1_2480



3DH5_Ant1_2402



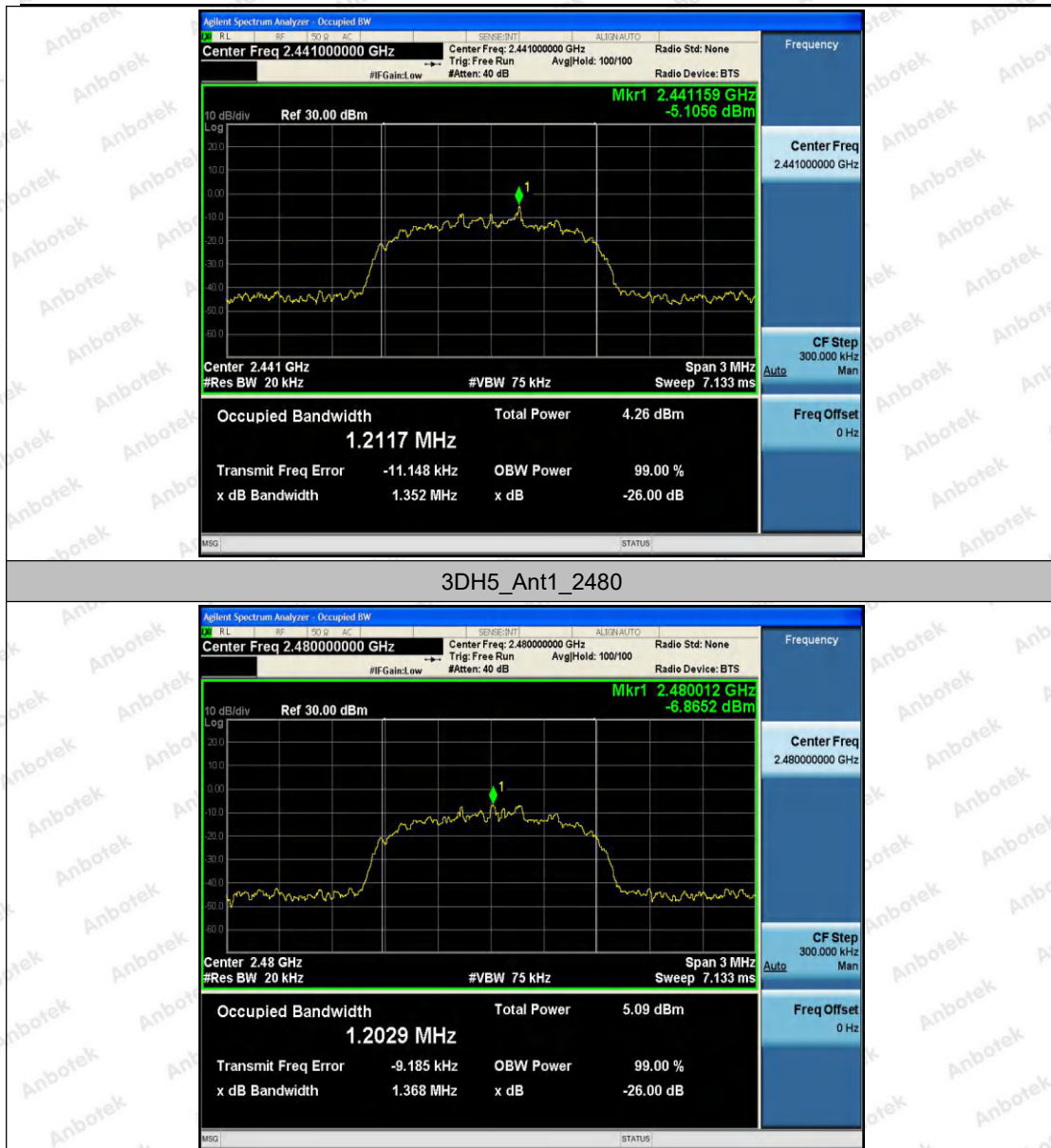
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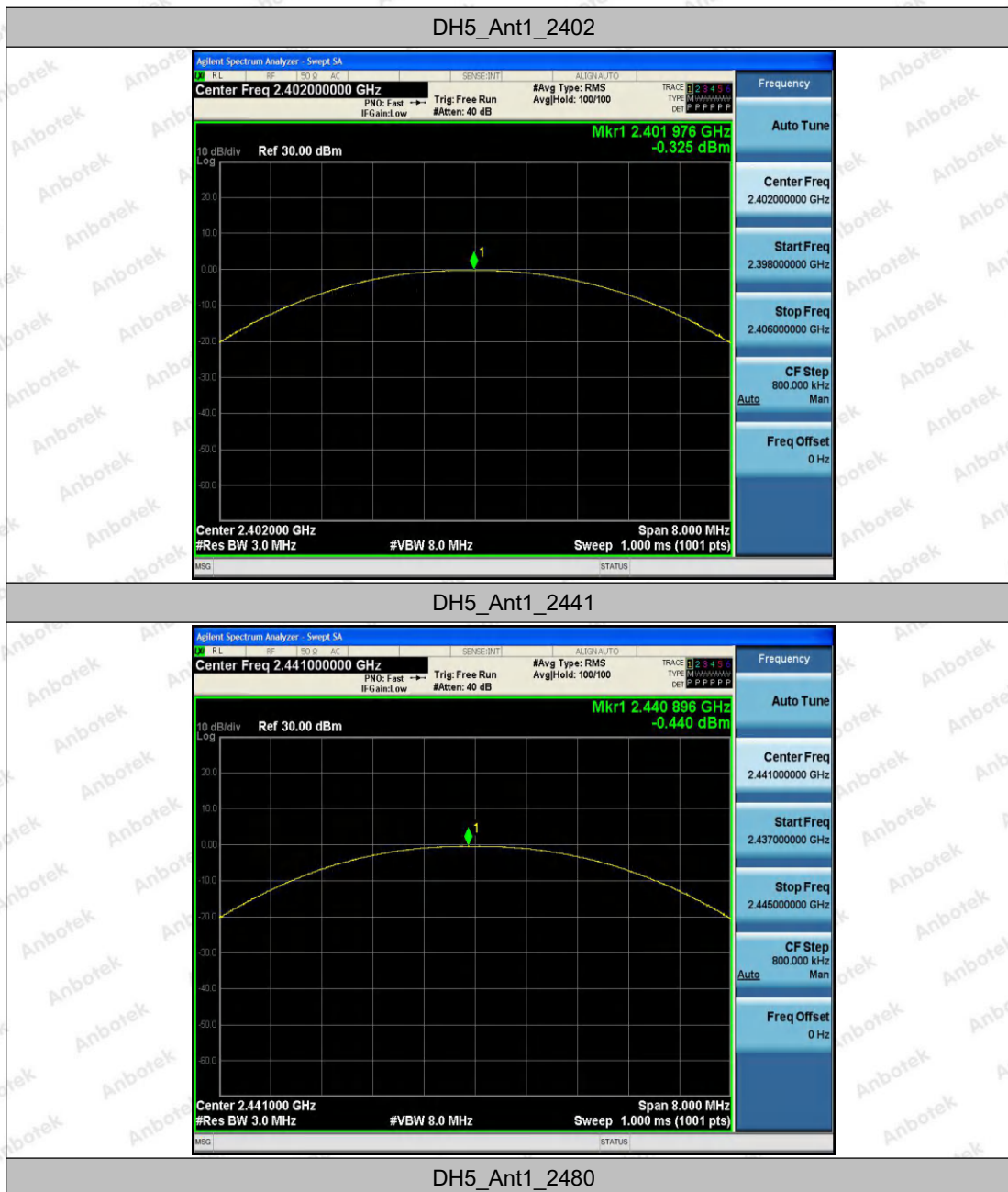
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.33	≤20.97	PASS
		2441	-0.44	≤20.97	PASS
		2480	0.46	≤20.97	PASS
2DH5	Ant1	2402	-0.81	≤20.97	PASS
		2441	-0.93	≤20.97	PASS
		2480	-0.27	≤20.97	PASS
3DH5	Ant1	2402	-0.64	≤20.97	PASS
		2441	-0.8	≤20.97	PASS
		2480	-0.04	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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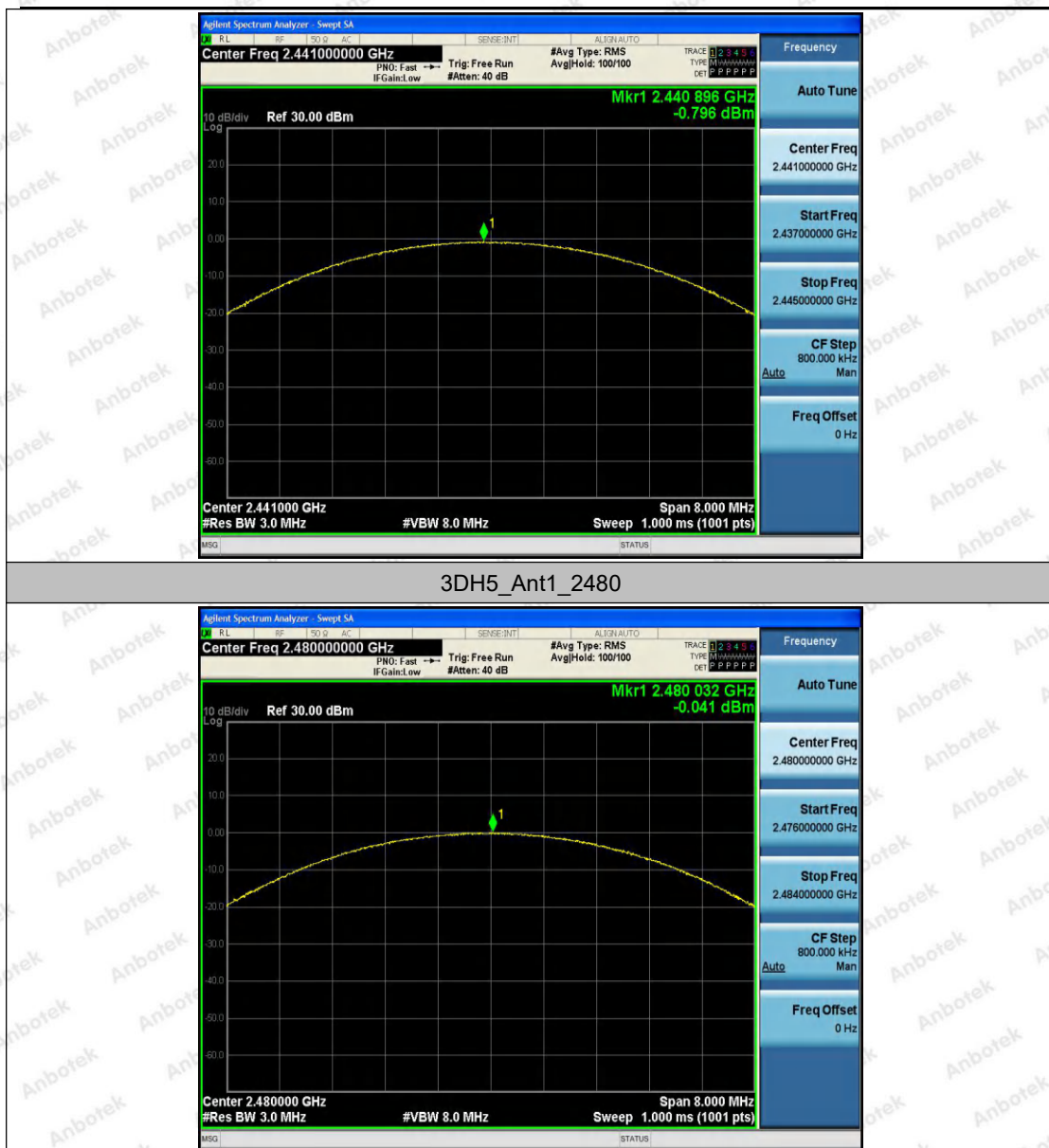
2DH5_Ant1_2480



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	0.876	≥ 0.634	PASS
2DH5	Ant1	Hop	0.988	≥ 0.884	PASS
3DH5	Ant1	Hop	0.988	≥ 0.860	PASS

Test Graphs



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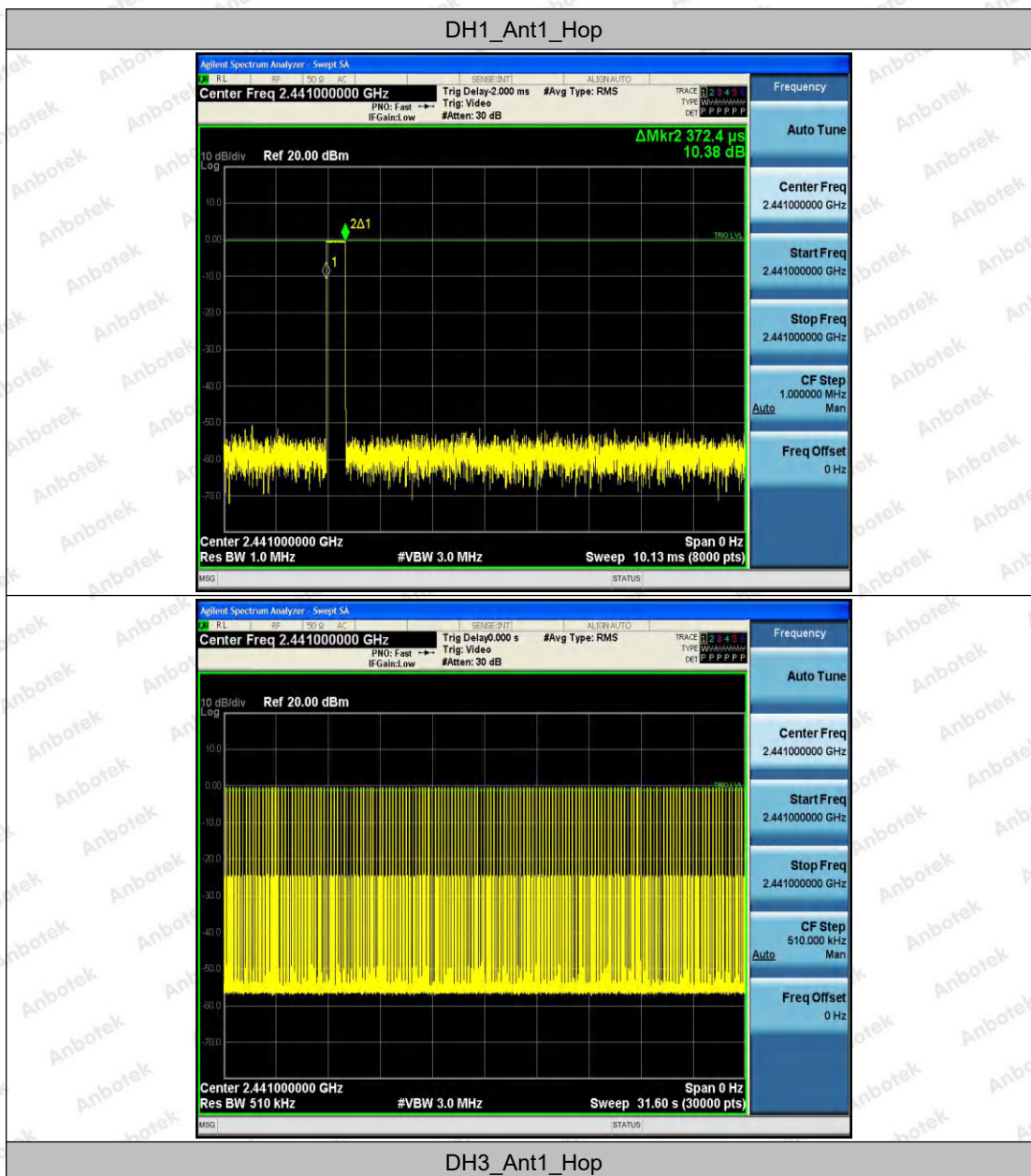
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	155	0.252	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	112	0.323	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤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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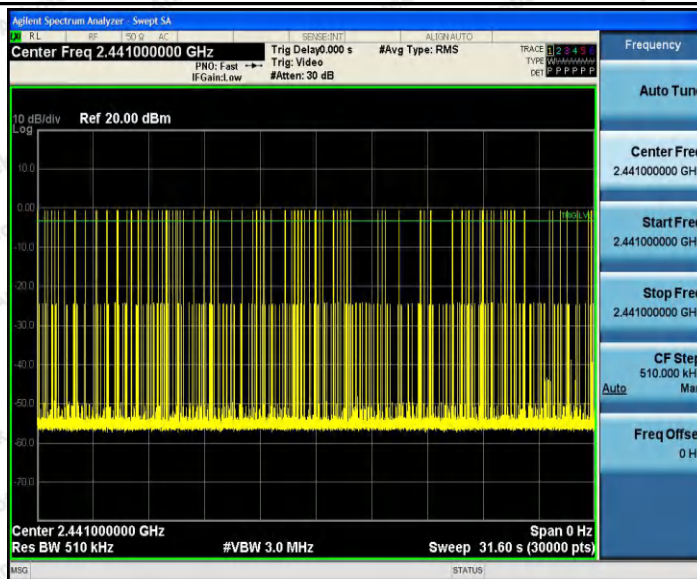
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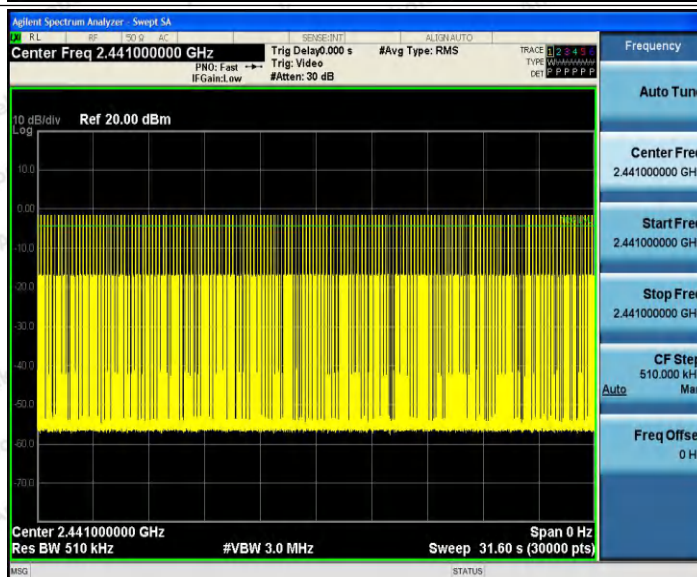
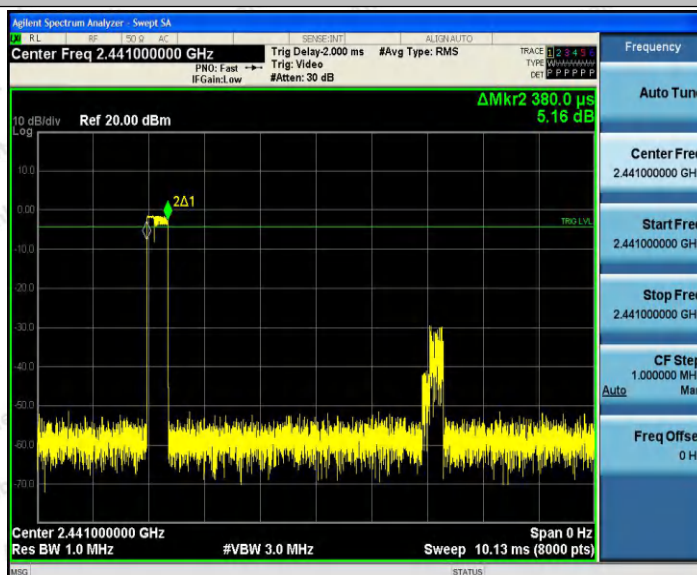
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2DH1_Ant1_Hop



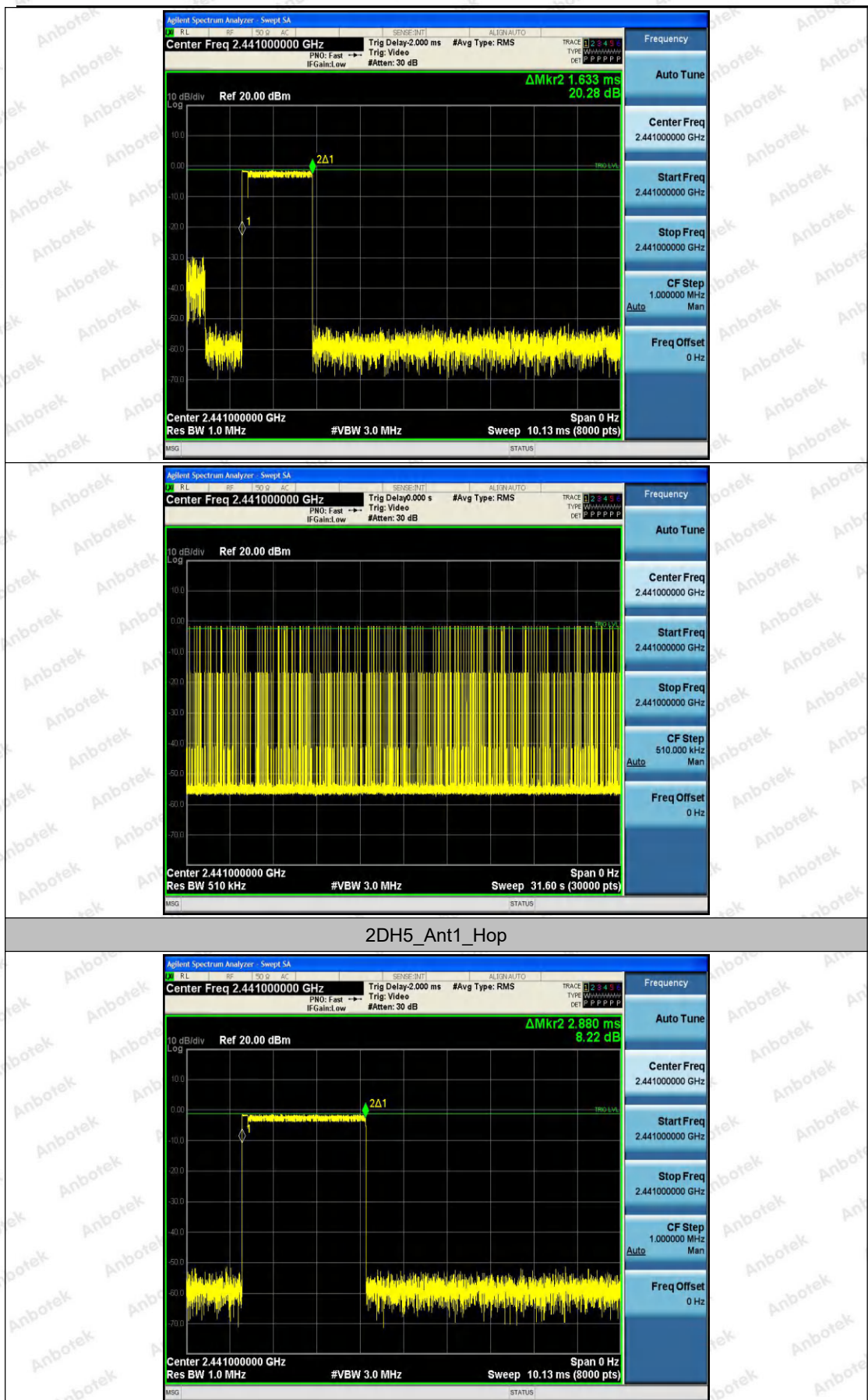
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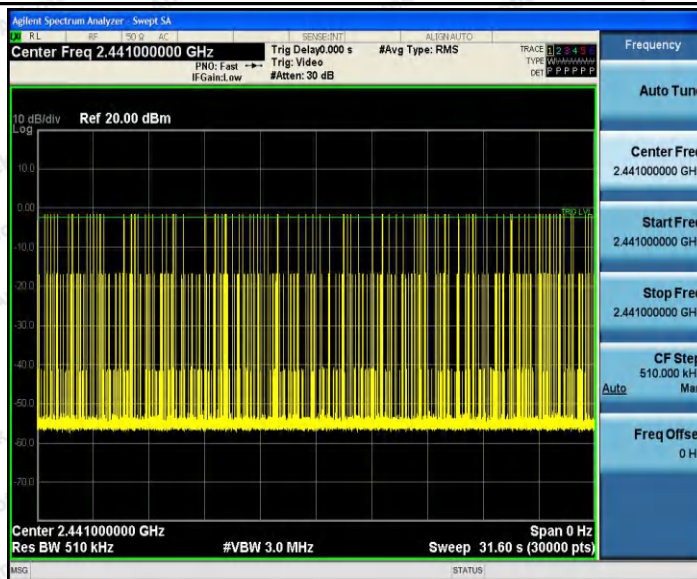
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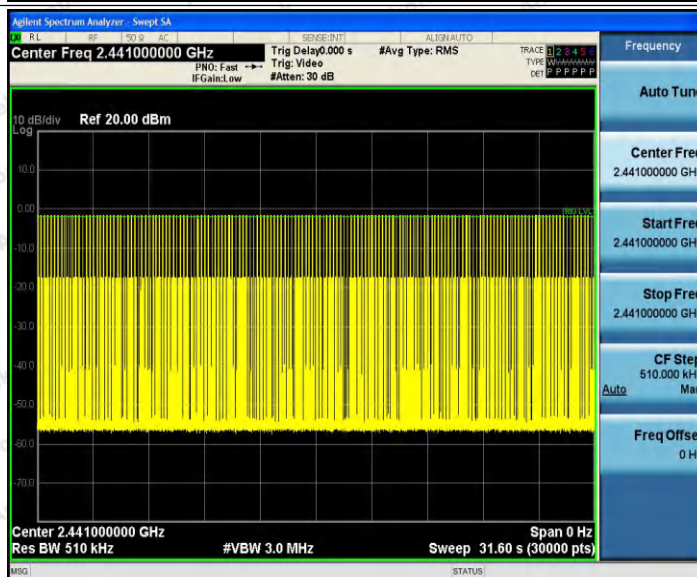
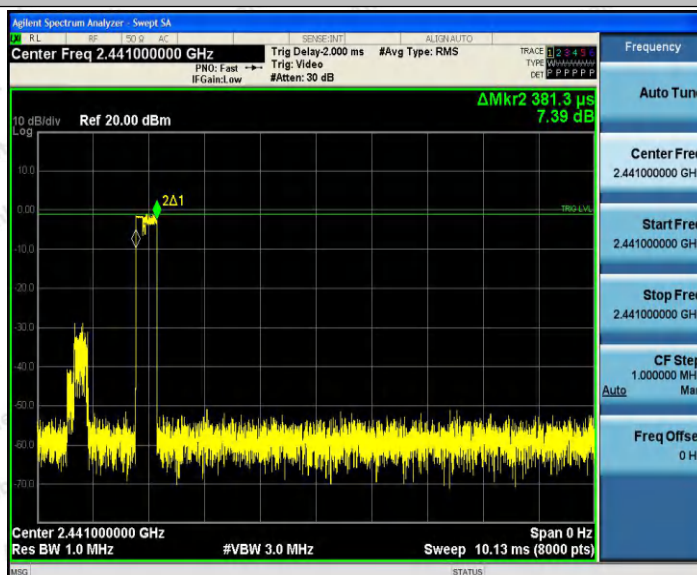
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3DH1_Ant1_Hop



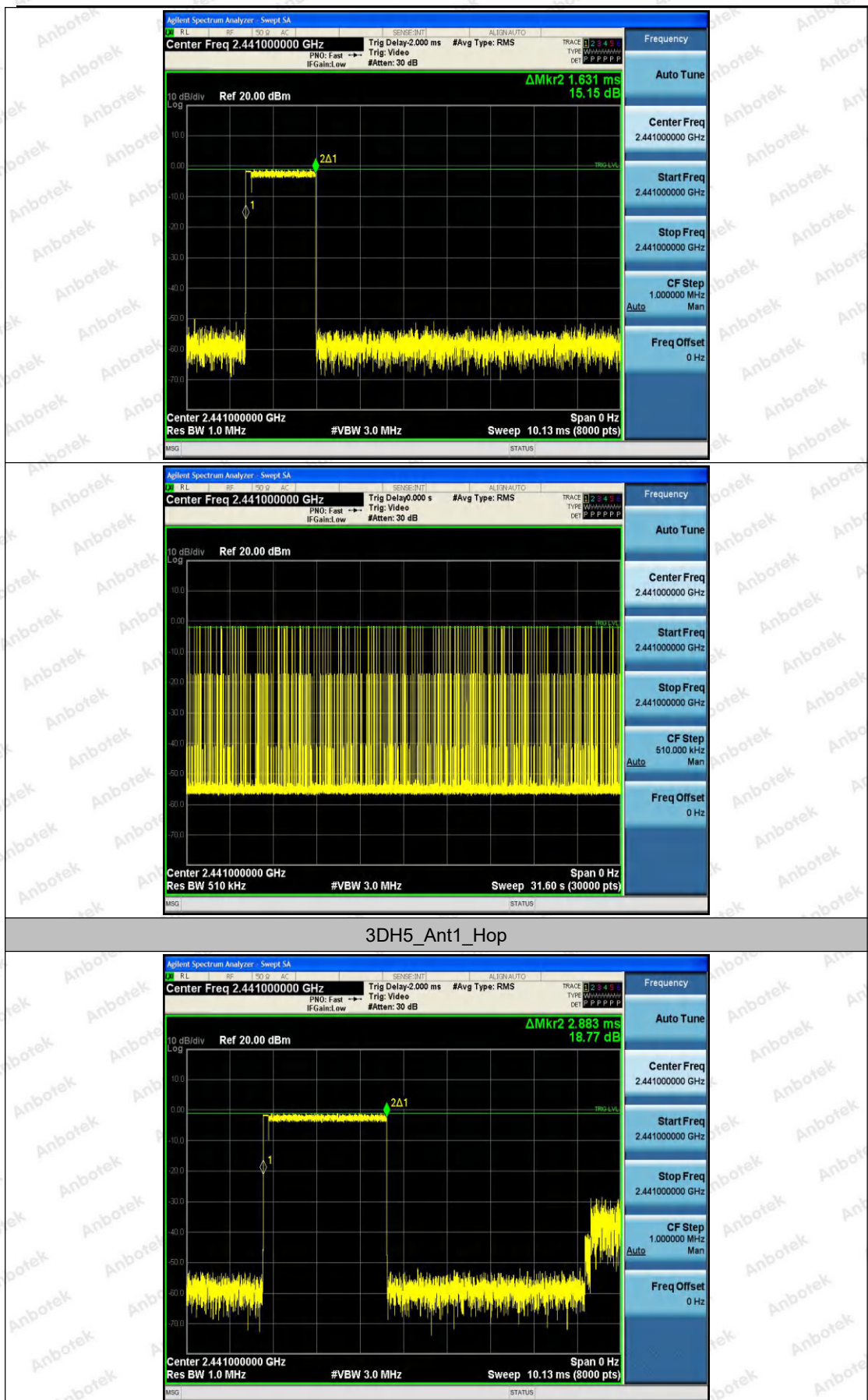
3DH3_Ant1_Hop

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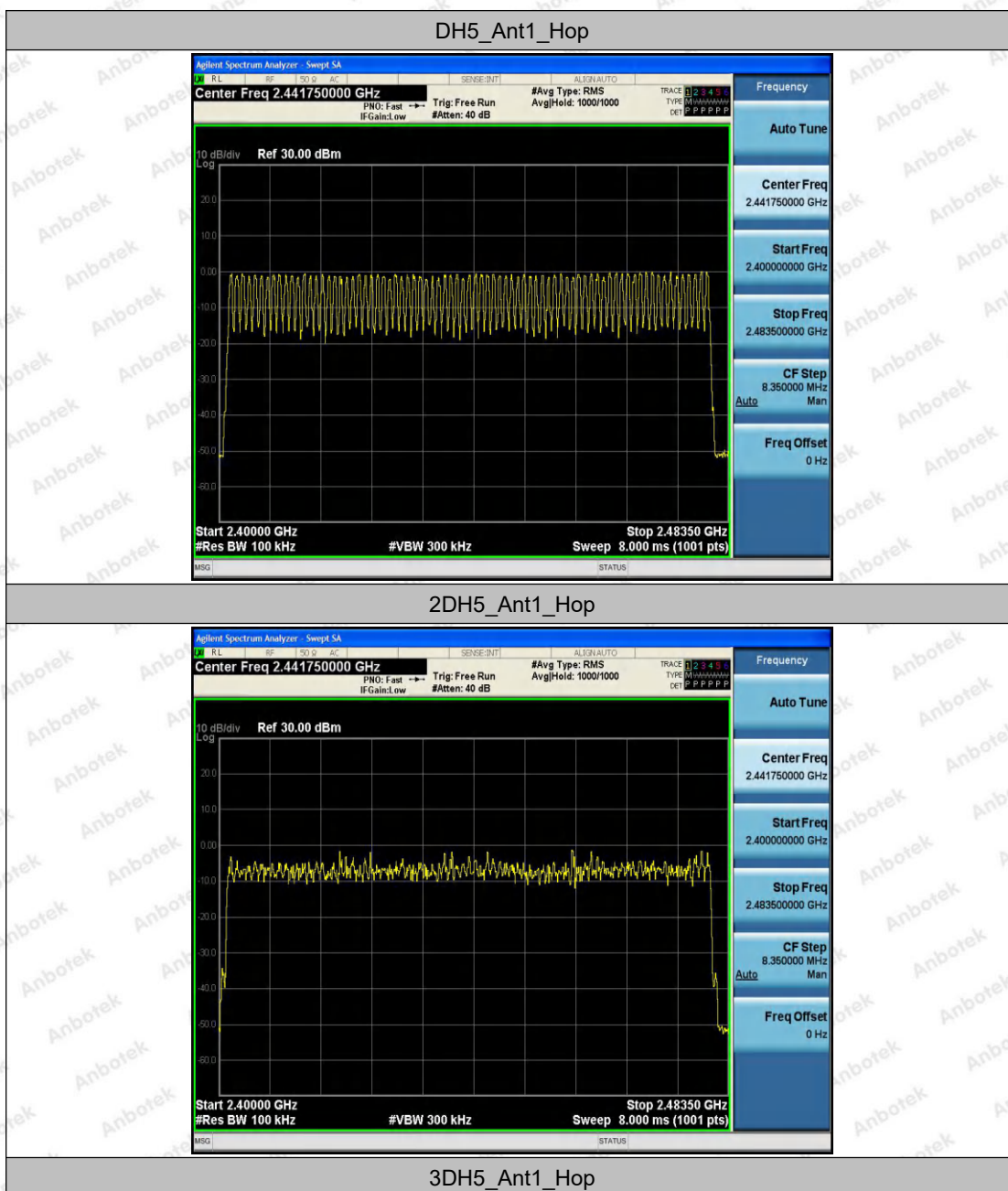
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Appendix F: Number of hopping channels

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

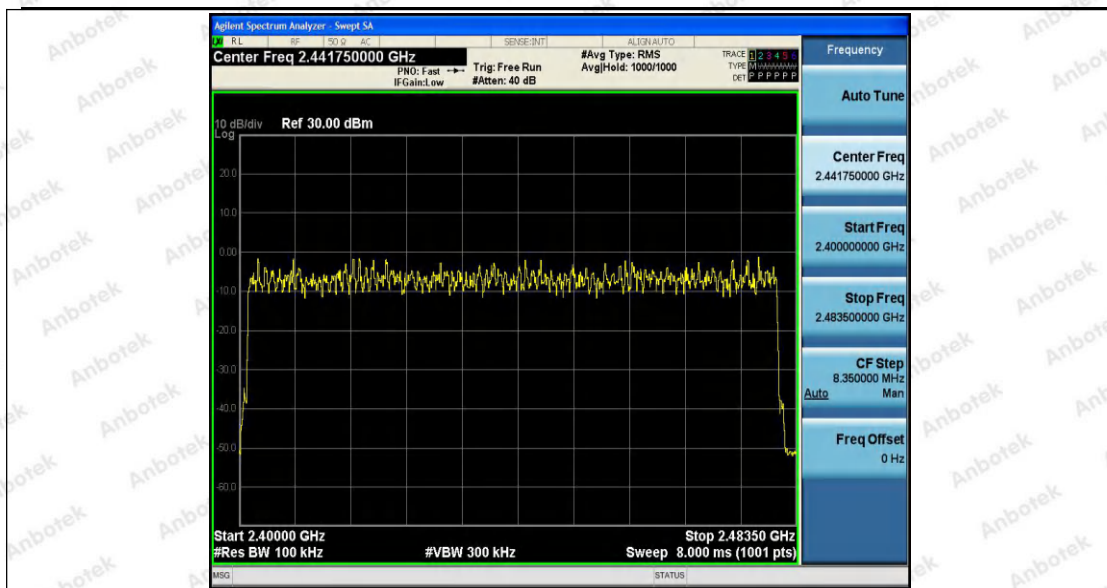


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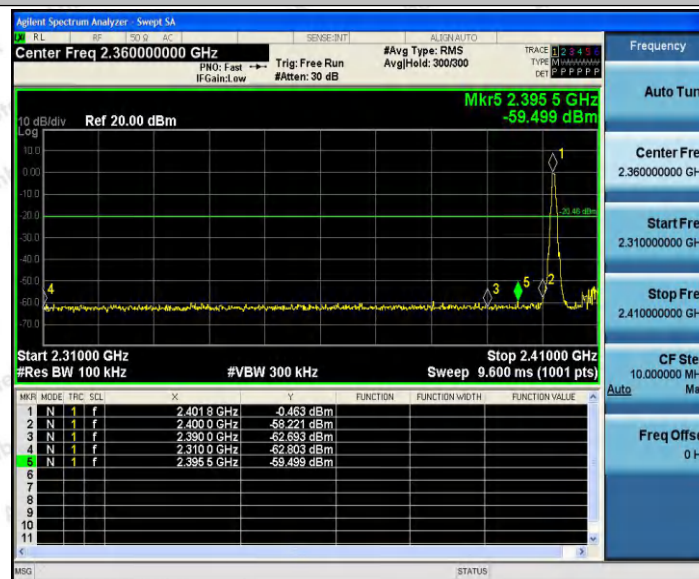
Appendix G: Band edge measurements

Test Result

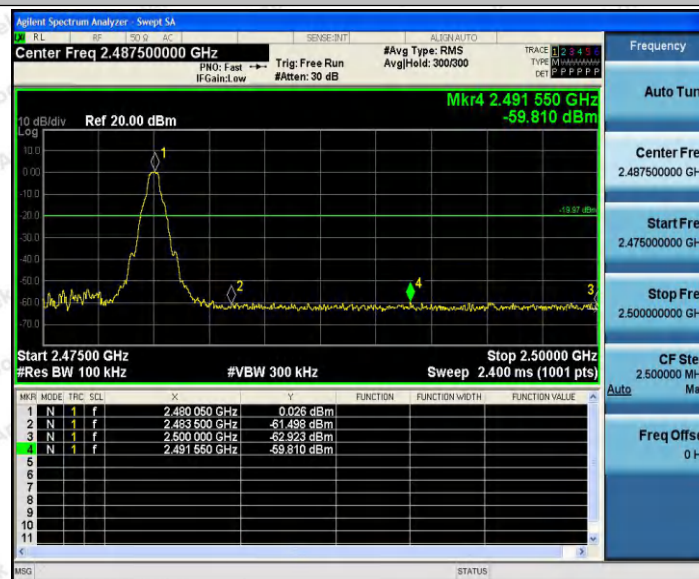
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.46	-59.5	≤-20.46	PASS
		High	2480	0.03	-59.81	≤-19.97	PASS
		Low	Hop	-0.66	-59.21	≤-20.66	PASS
		High	Hop	-0.16	-62.42	≤-20.16	PASS
2DH5	Ant1	Low	2402	-1.49	-57.42	≤-21.49	PASS
		High	2480	-1.06	-59.03	≤-21.06	PASS
		Low	Hop	-2.77	-59.65	≤-22.77	PASS
		High	Hop	-2.55	-61.35	≤-22.55	PASS
3DH5	Ant1	Low	2402	-1.46	-56.28	≤-21.46	PASS
		High	2480	-3.32	-59.47	≤-23.32	PASS
		Low	Hop	-5.40	-58.98	≤-25.4	PASS
		High	Hop	-3.68	-61.04	≤-23.68	PASS

Test Graphs

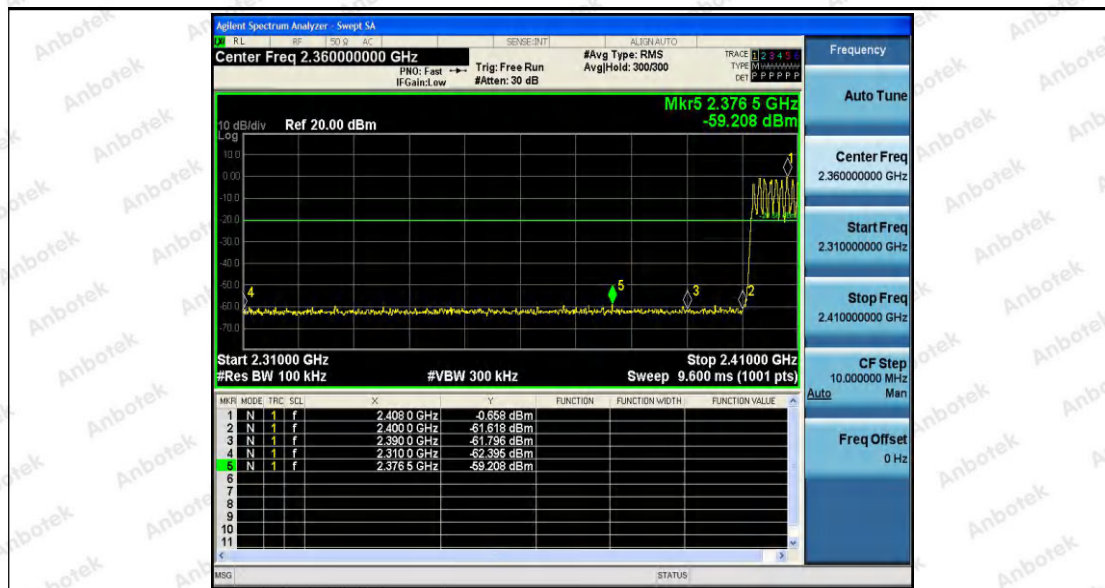
DH5_Ant1_Low_2402



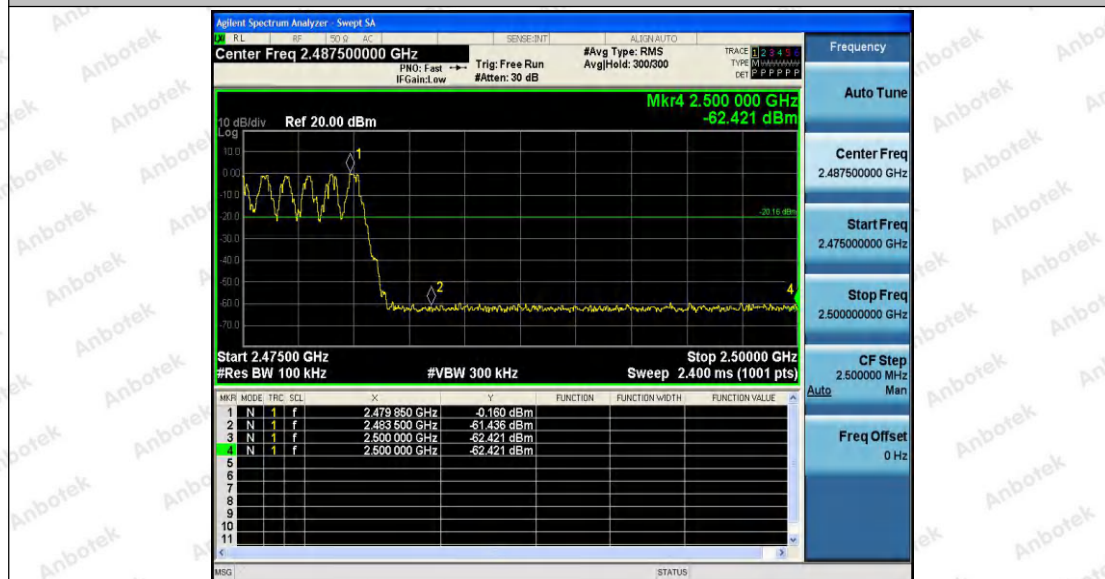
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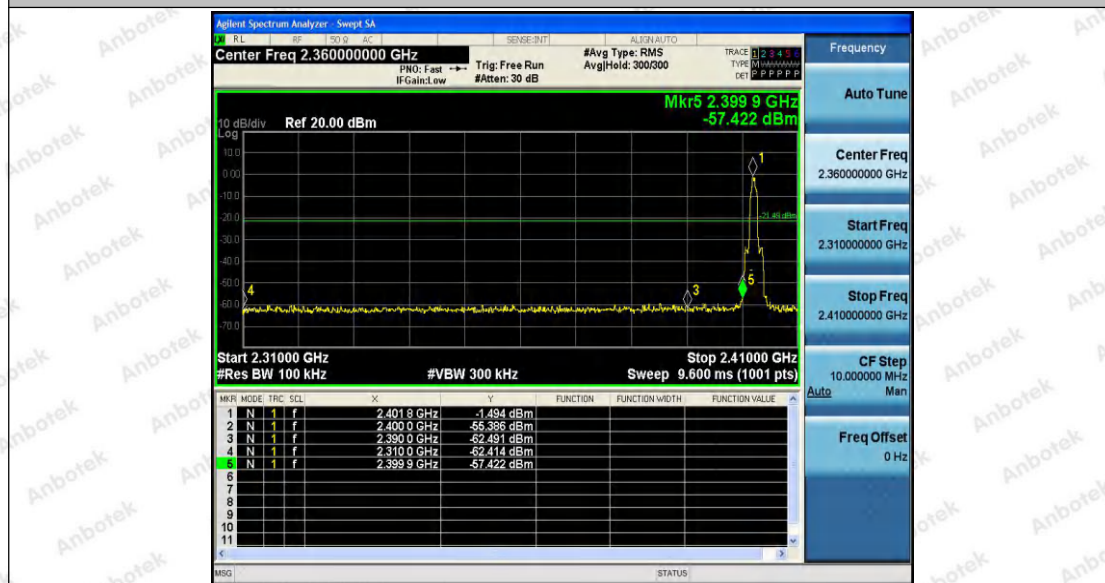
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



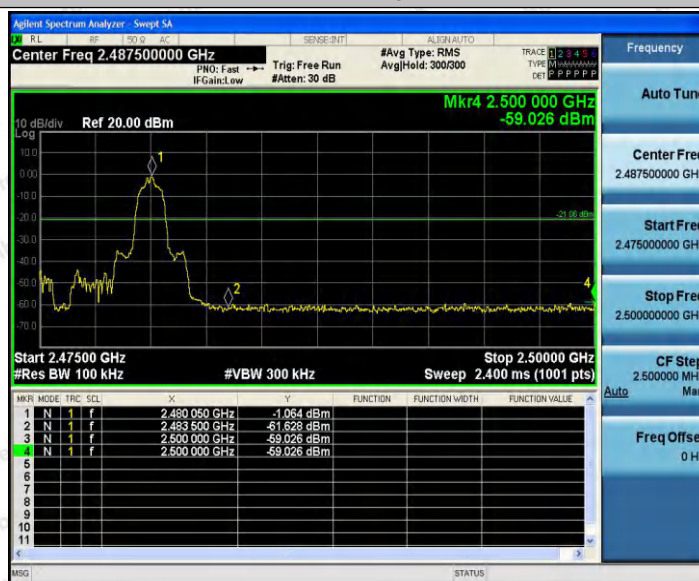
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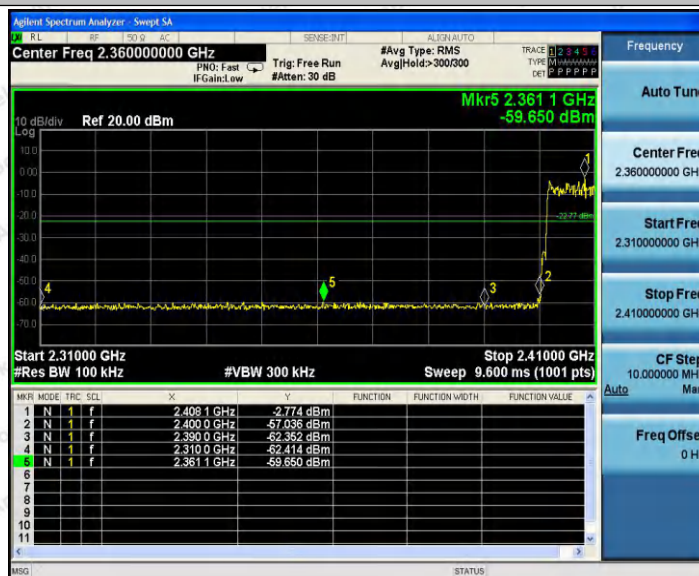
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



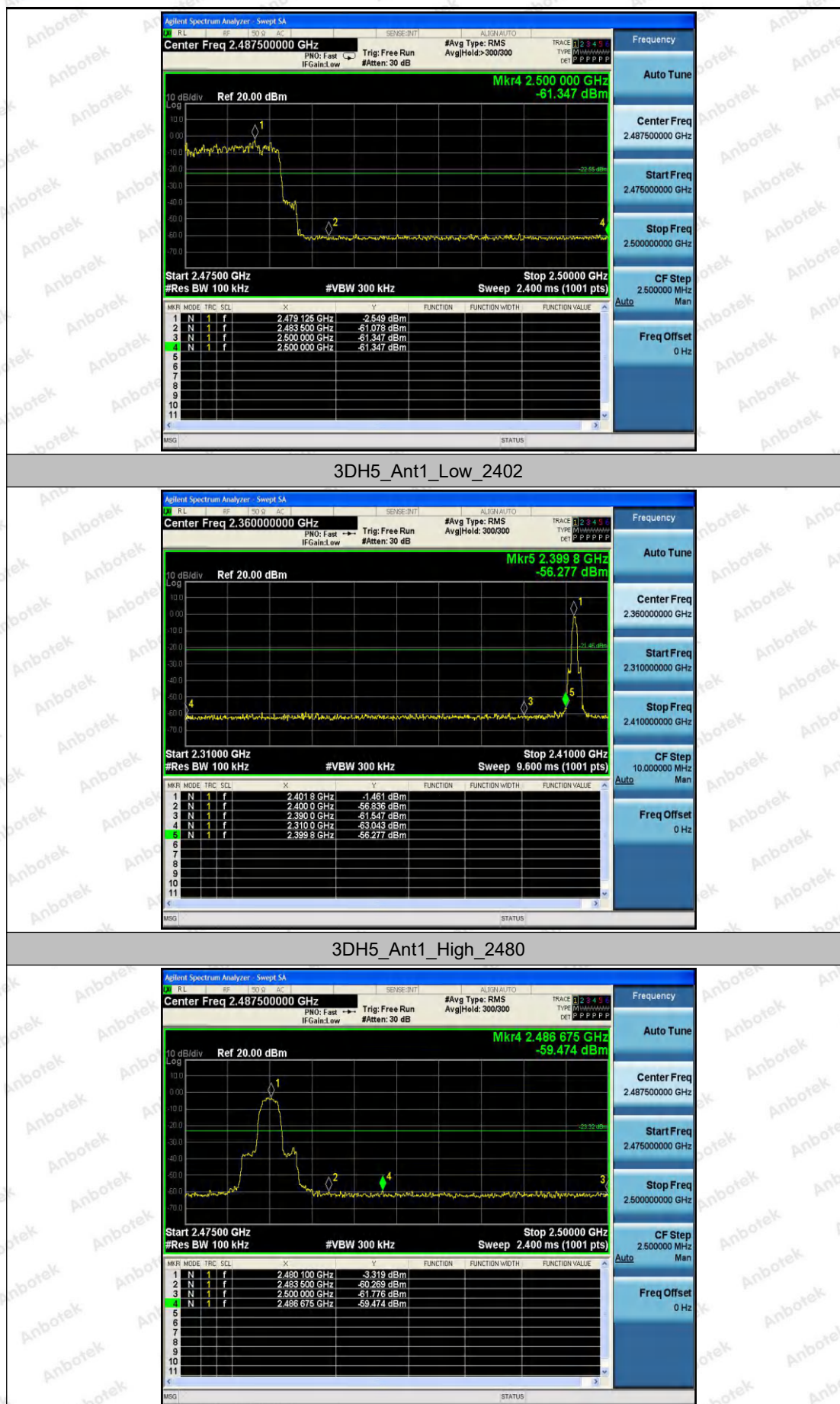
2DH5_Ant1_High_Hop

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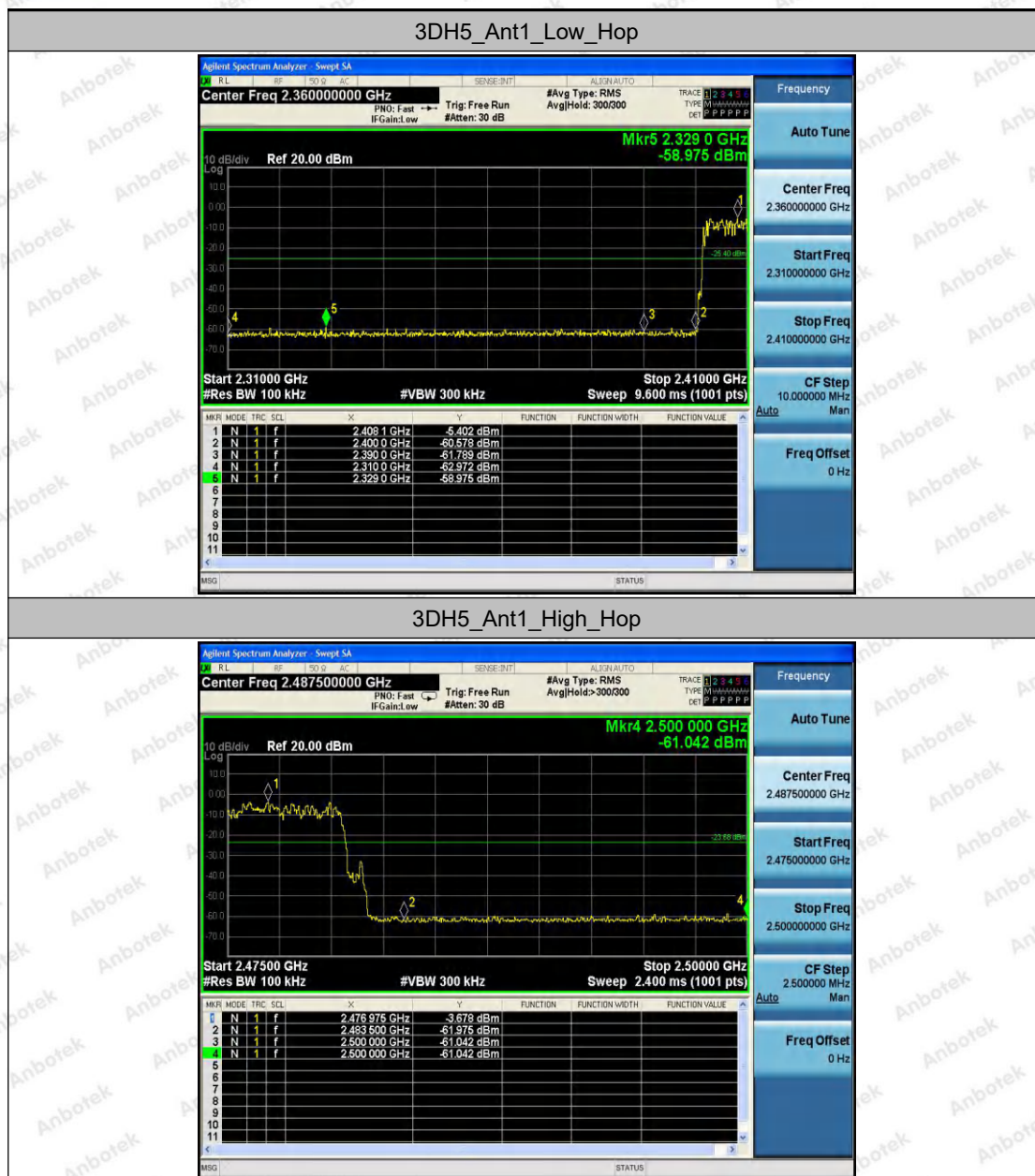


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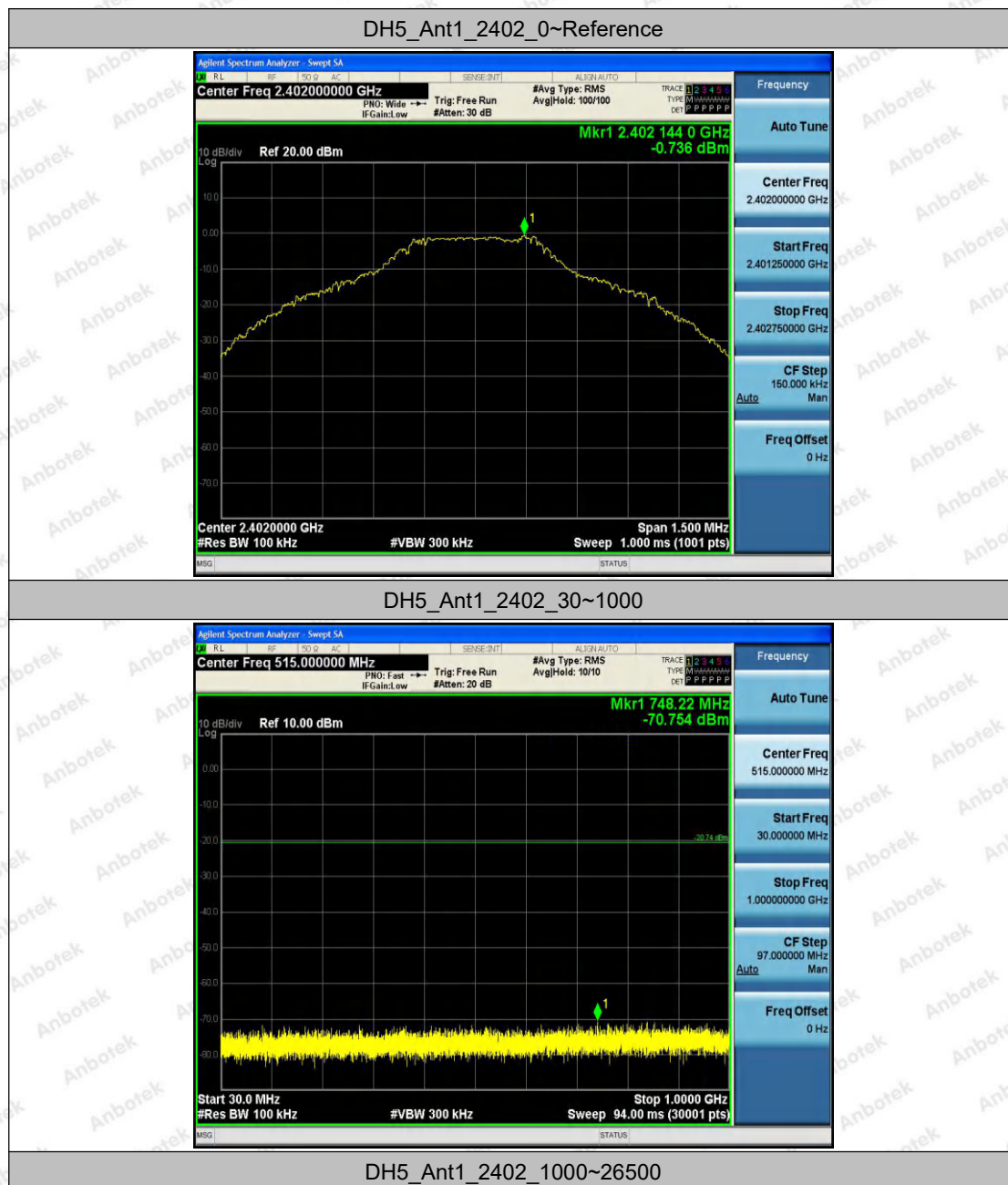
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-70.75	≤-20.74	PASS
			1000~26500	-0.74	-54.06	≤-20.74	PASS
		2441	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-70.04	≤-21.32	PASS
			1000~26500	-1.32	-55.38	≤-21.32	PASS
		2480	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-69.65	≤-20.01	PASS
			1000~26500	-0.01	-54.7	≤-20.01	PASS
2DH5	Ant1	2402	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-70.54	≤-22.38	PASS
			1000~26500	-2.38	-54.46	≤-22.38	PASS
		2441	Reference	-2.02	-2.02	---	PASS
			30~1000	-2.02	-70.6	≤-22.02	PASS
			1000~26500	-2.02	-55.45	≤-22.02	PASS
		2480	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-70.68	≤-21	PASS
			1000~26500	-1.00	-55.01	≤-21	PASS
3DH5	Ant1	2402	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-69.88	≤-21.65	PASS
			1000~26500	-1.65	-55.31	≤-21.65	PASS
		2441	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-70.55	≤-22.15	PASS
			1000~26500	-2.15	-55.76	≤-22.15	PASS
		2480	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-69.38	≤-21.2	PASS
			1000~26500	-1.20	-55.58	≤-21.2	PASS

Test Graphs

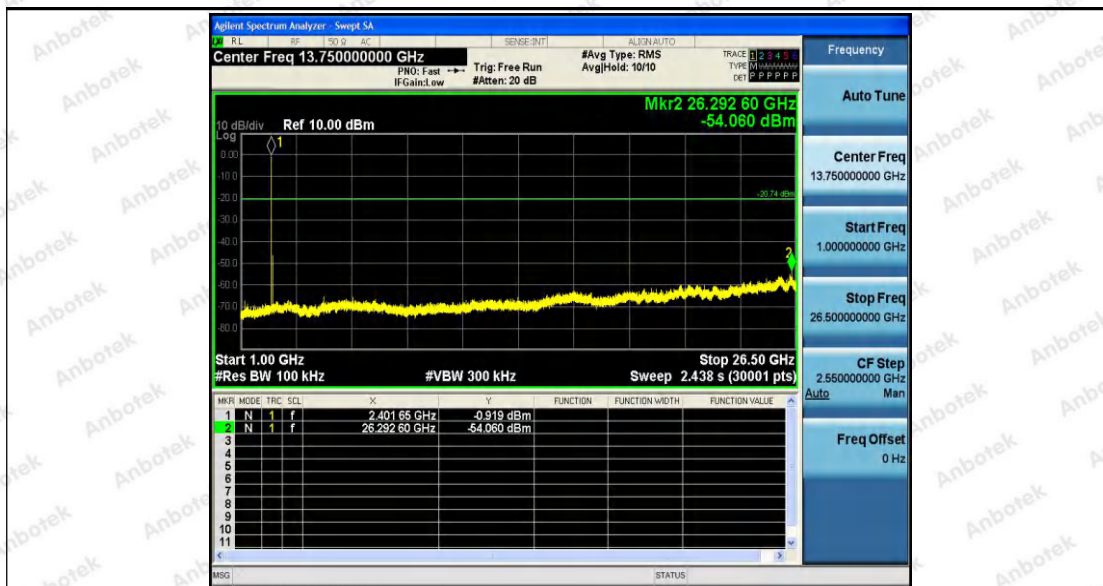


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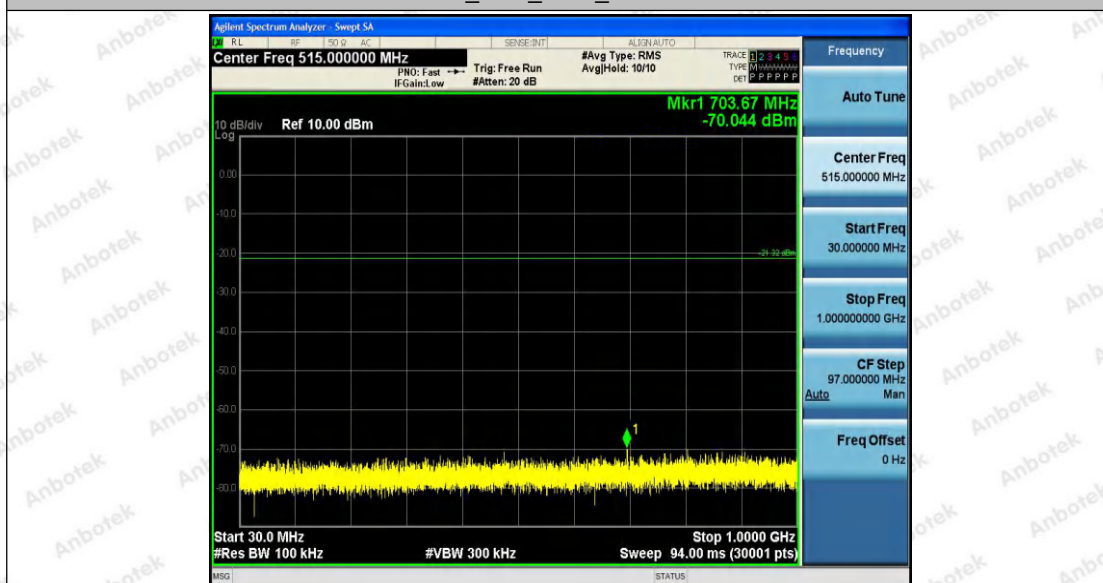
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



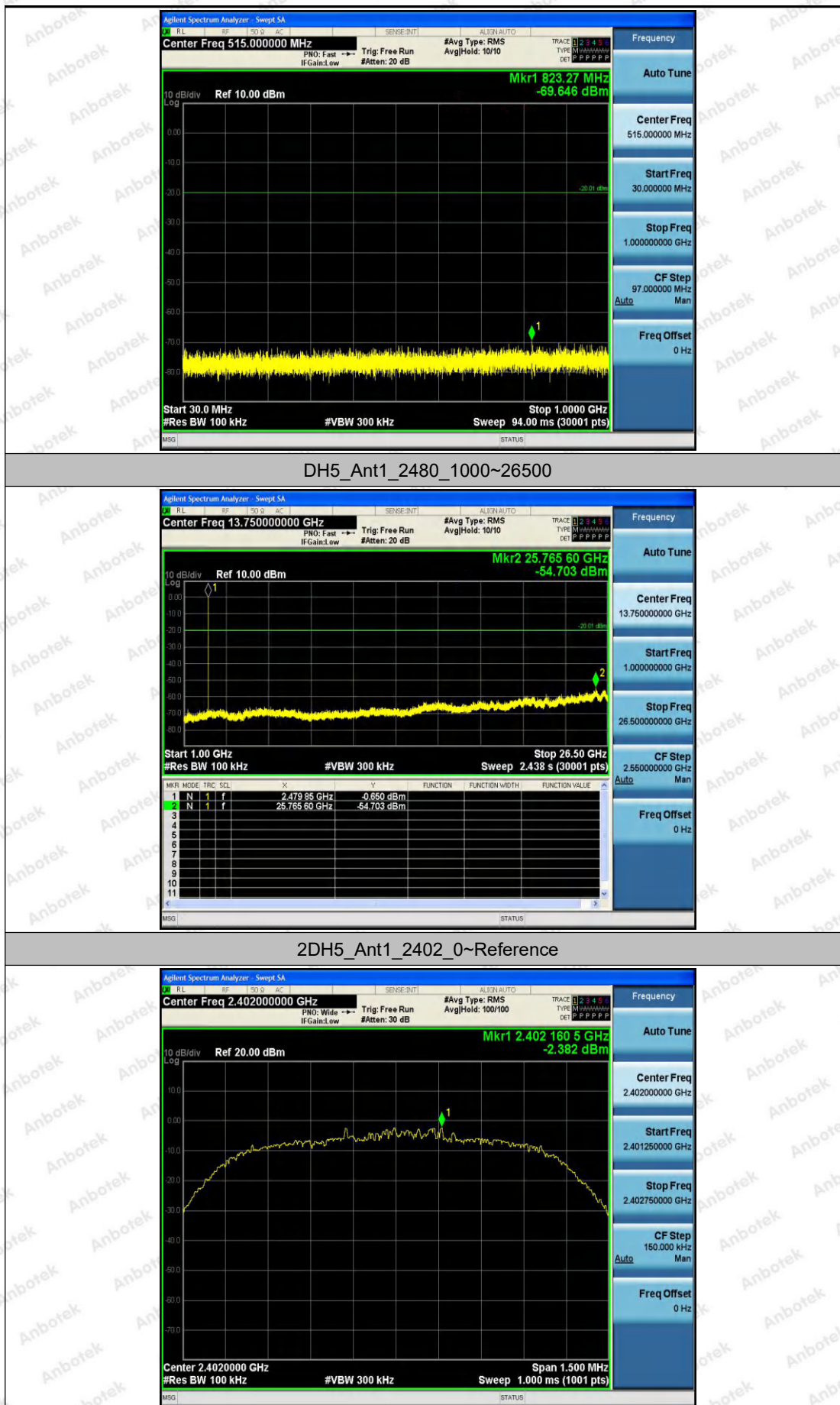
DH5_Ant1_2480_30~1000

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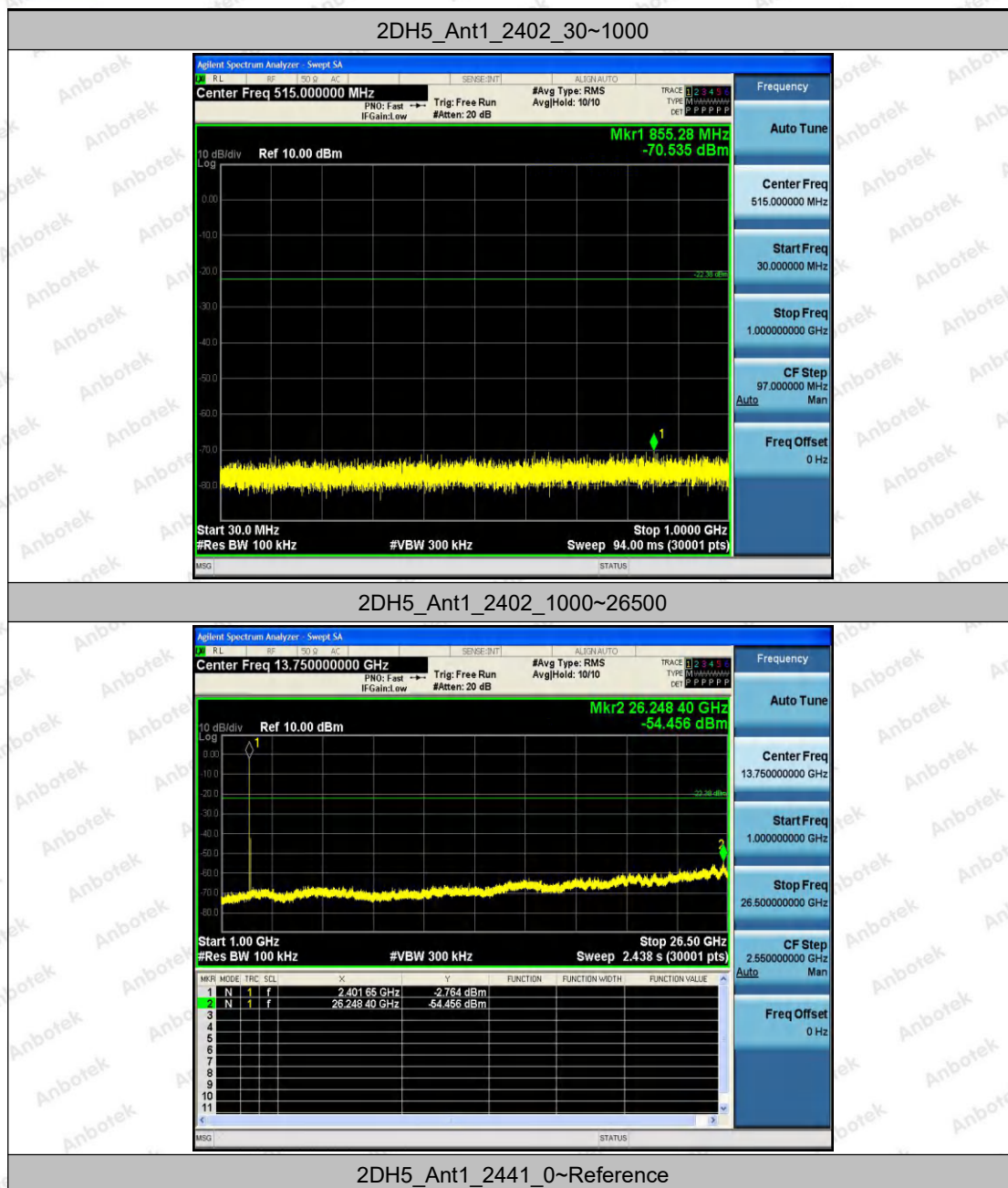


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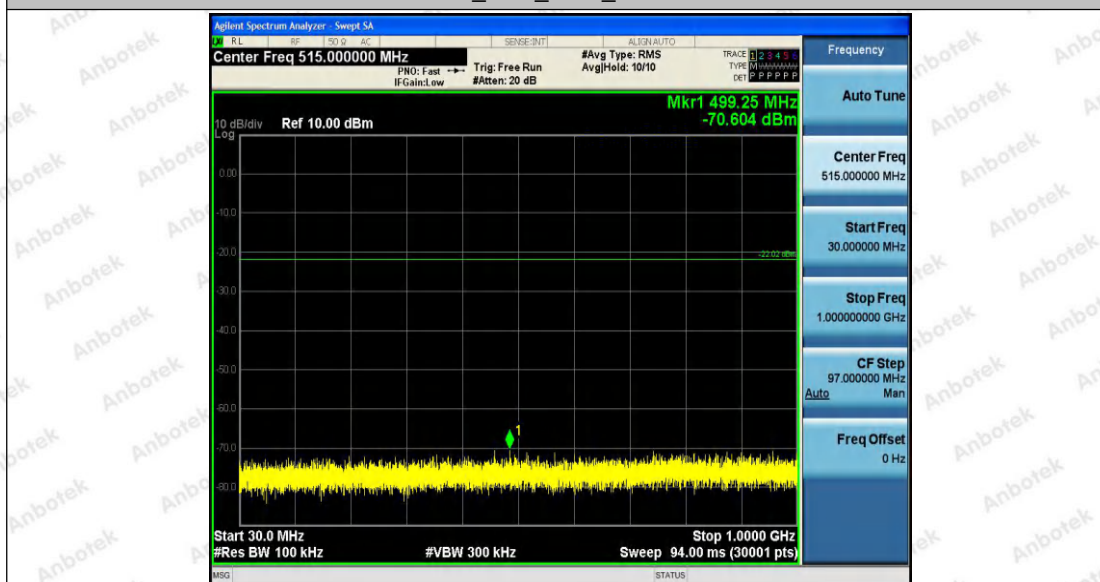
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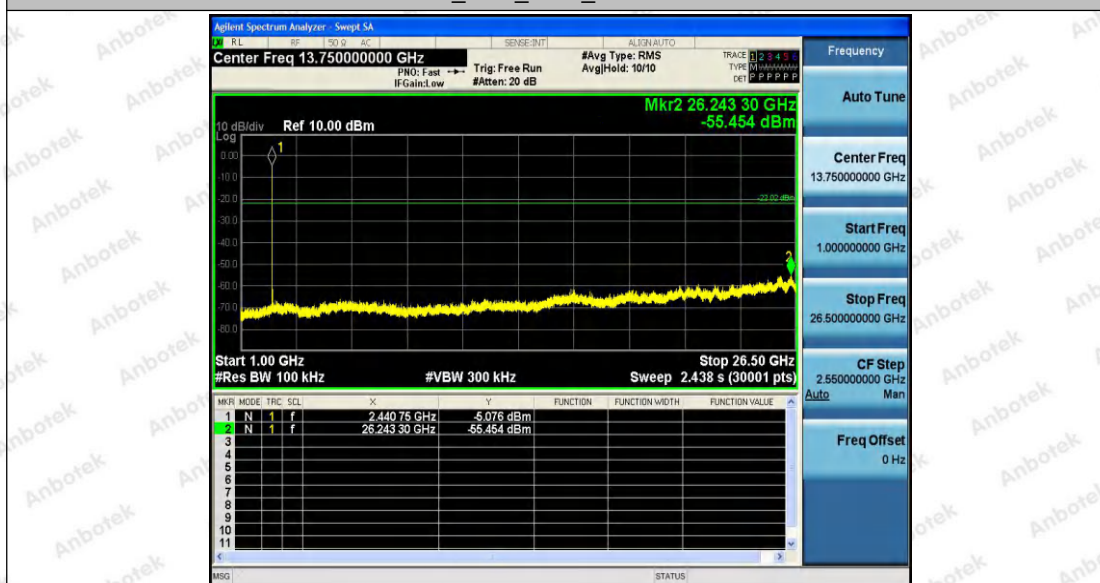
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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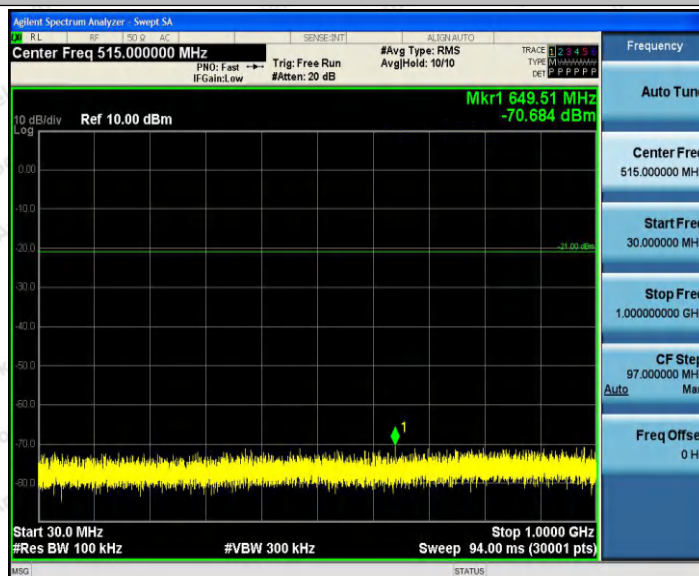
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



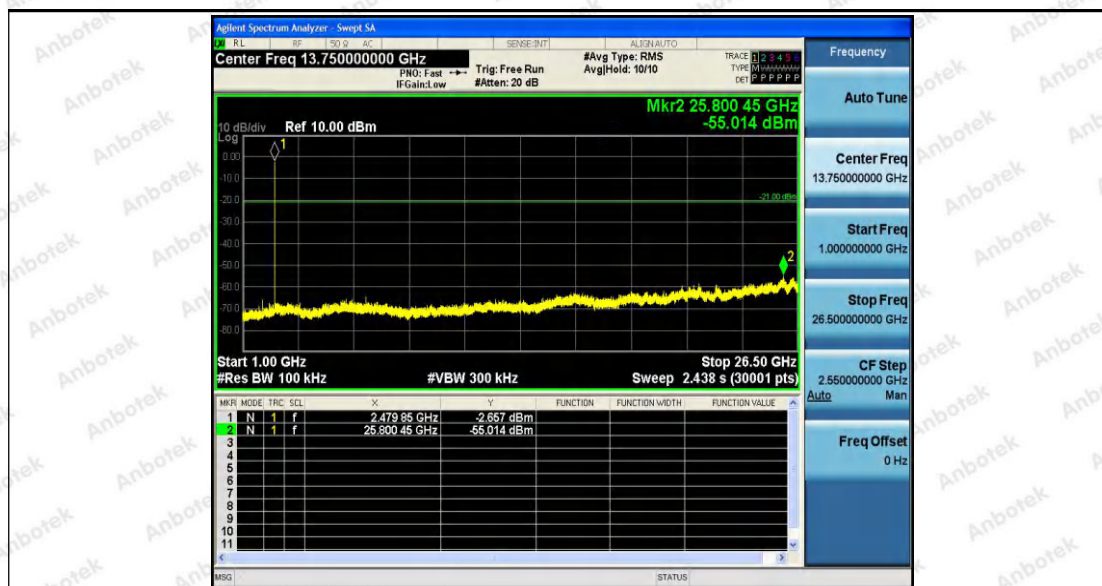
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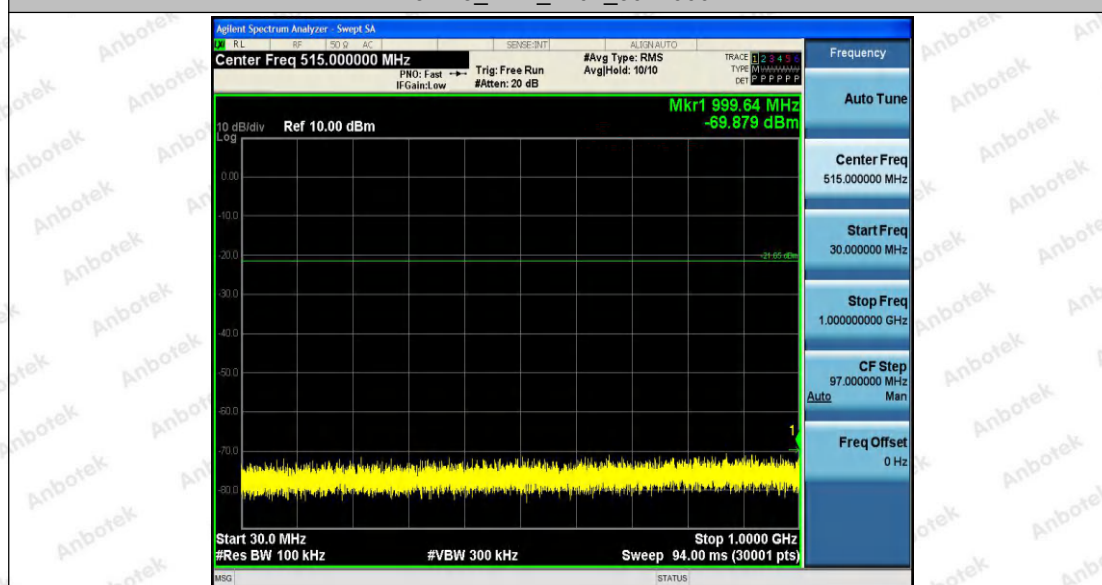
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



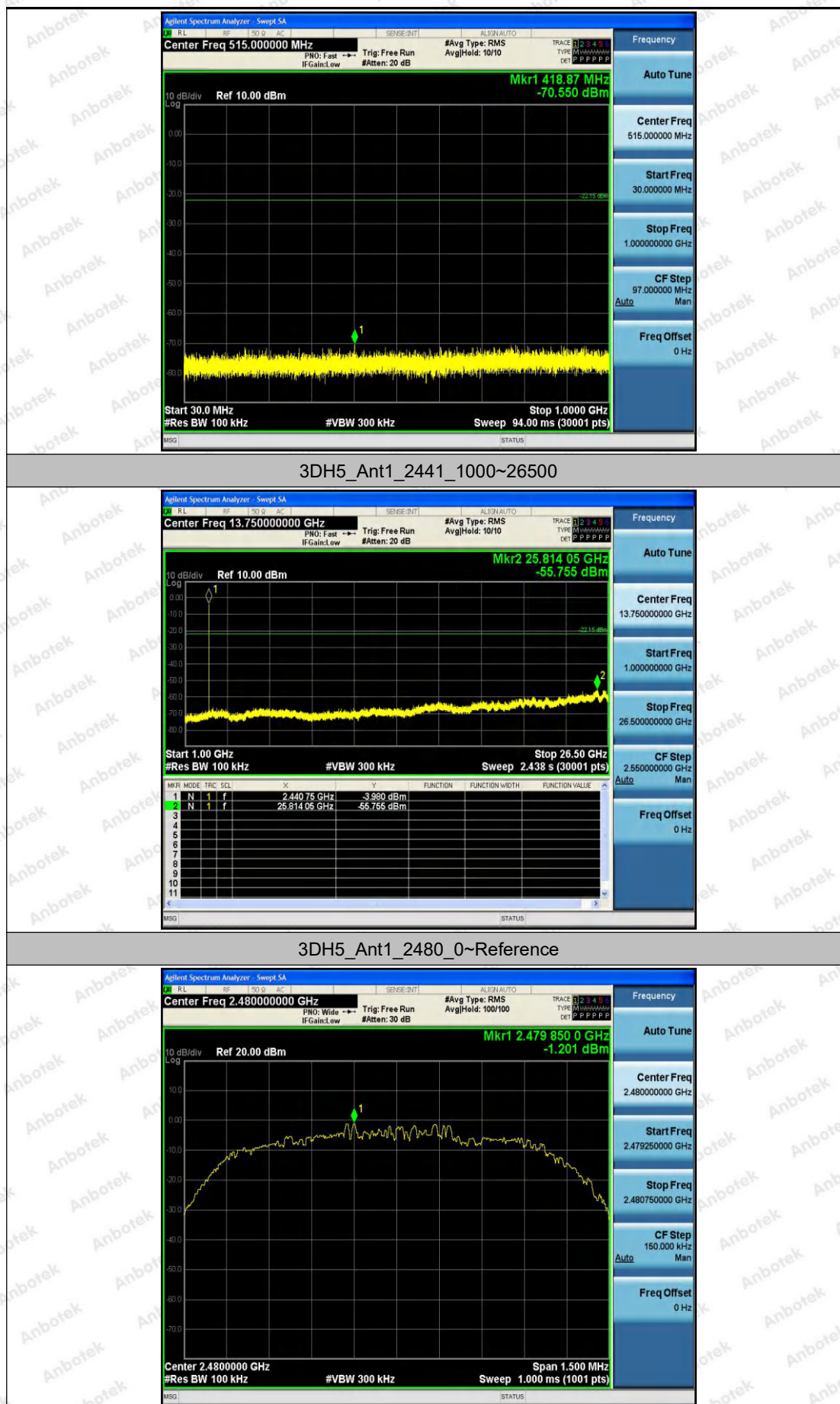
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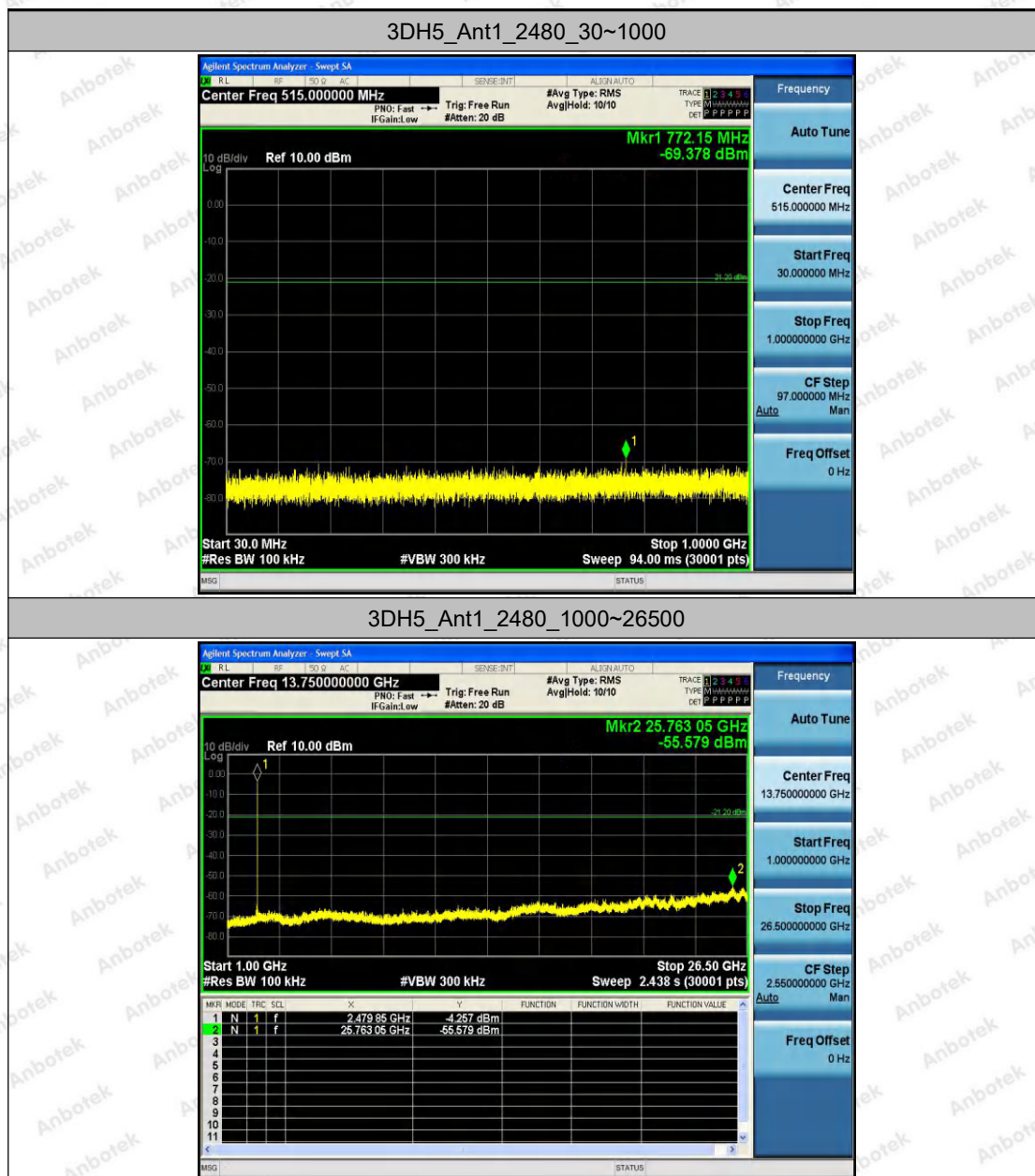


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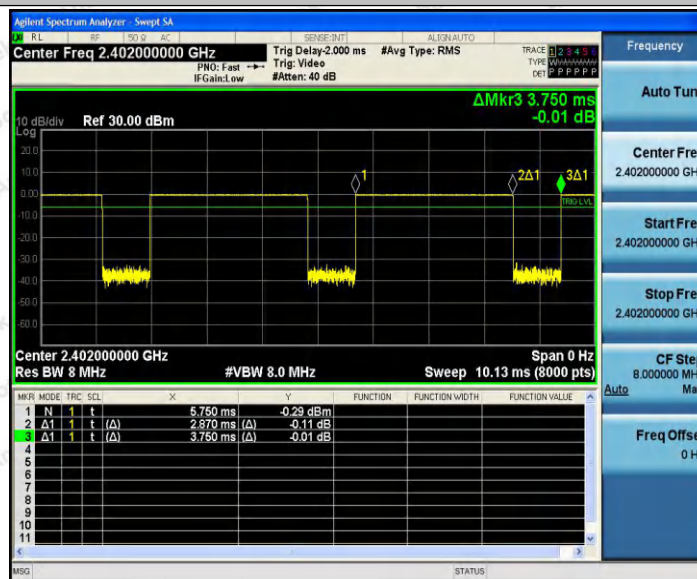
Appendix I: Duty Cycle

Test Result

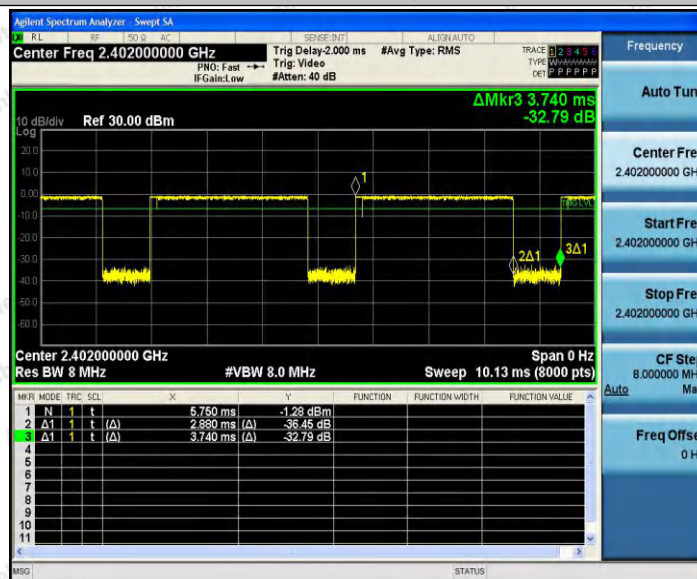
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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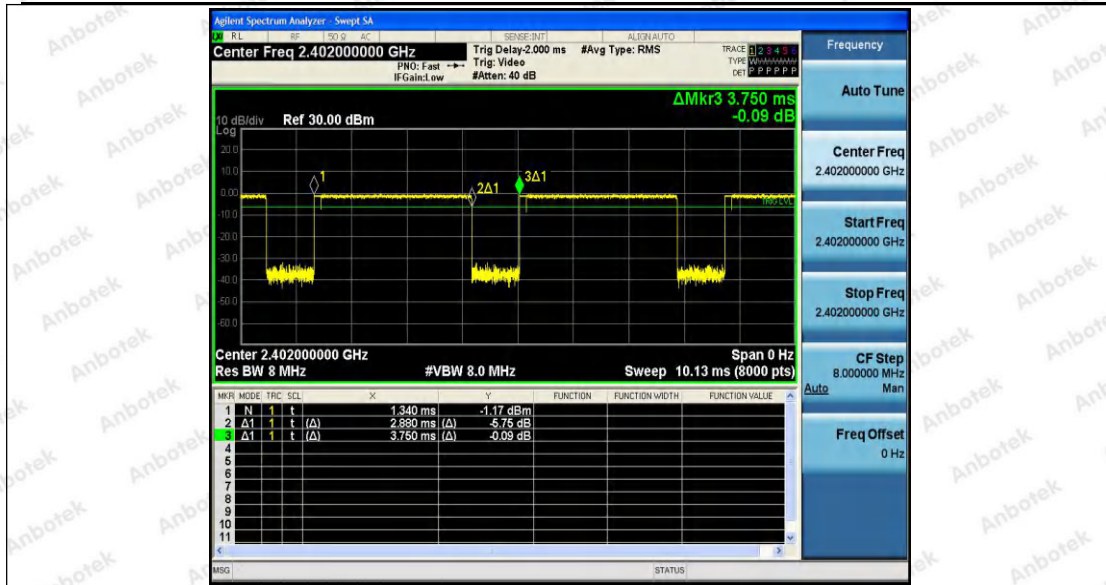
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