

Appendix Test Data

Report No.:	18220WC20040801	Test Sample No.:	1-2-2
Start Test Date:	2022.3.4	Finish Test Date:	2022.3.7
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	55.4 %
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	0.948	2440.541	2441.489	---	PASS
		2480	0.948	2479.541	2480.489	---	PASS
2DH5	Ant1	2402	1.266	2401.367	2402.633	---	PASS
		2441	1.326	2440.337	2441.663	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS
3DH5	Ant1	2402	1.302	2401.346	2402.648	---	PASS
		2441	1.302	2440.349	2441.651	---	PASS
		2480	1.314	2479.343	2480.657	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



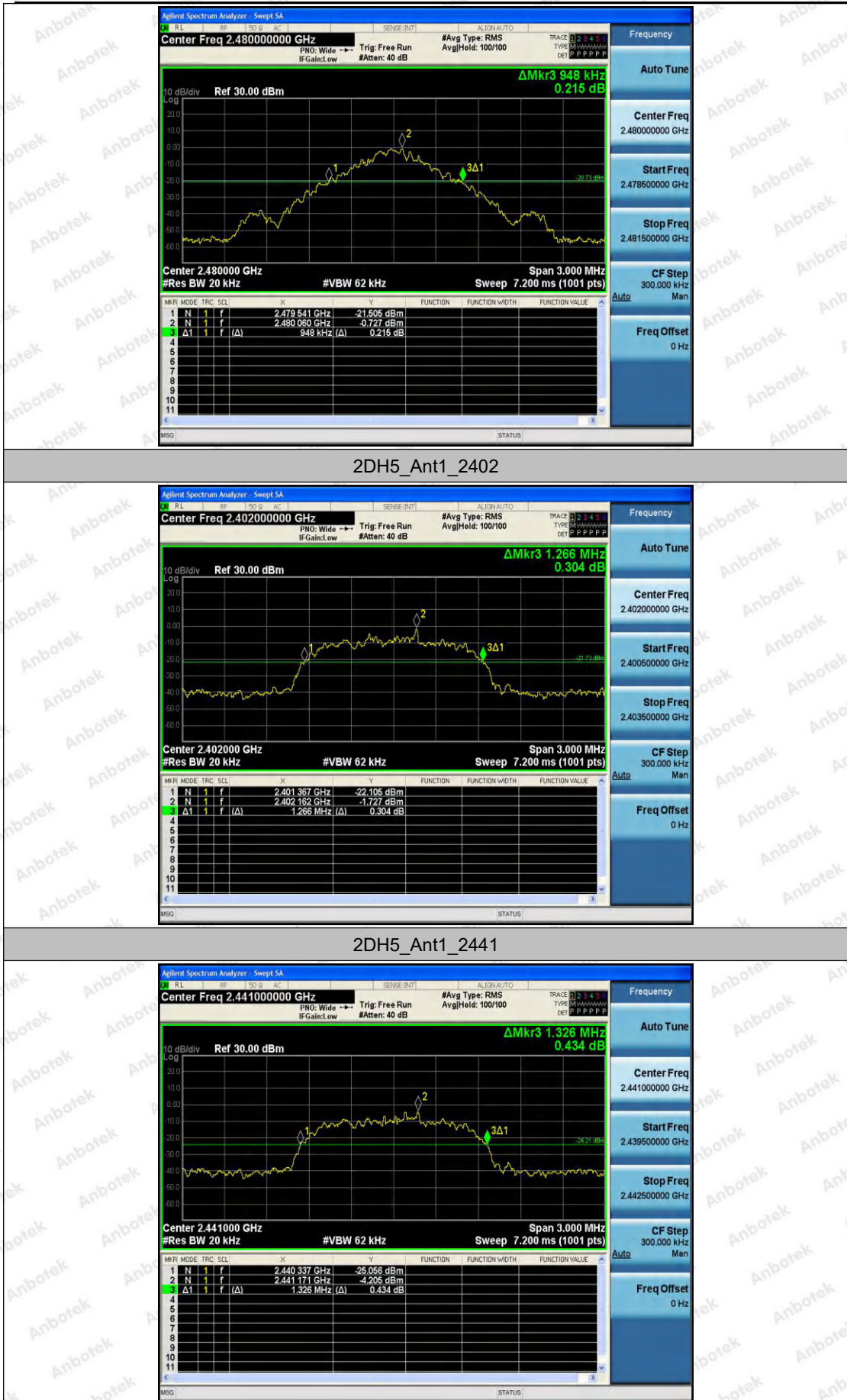
DH5_Ant1_2480

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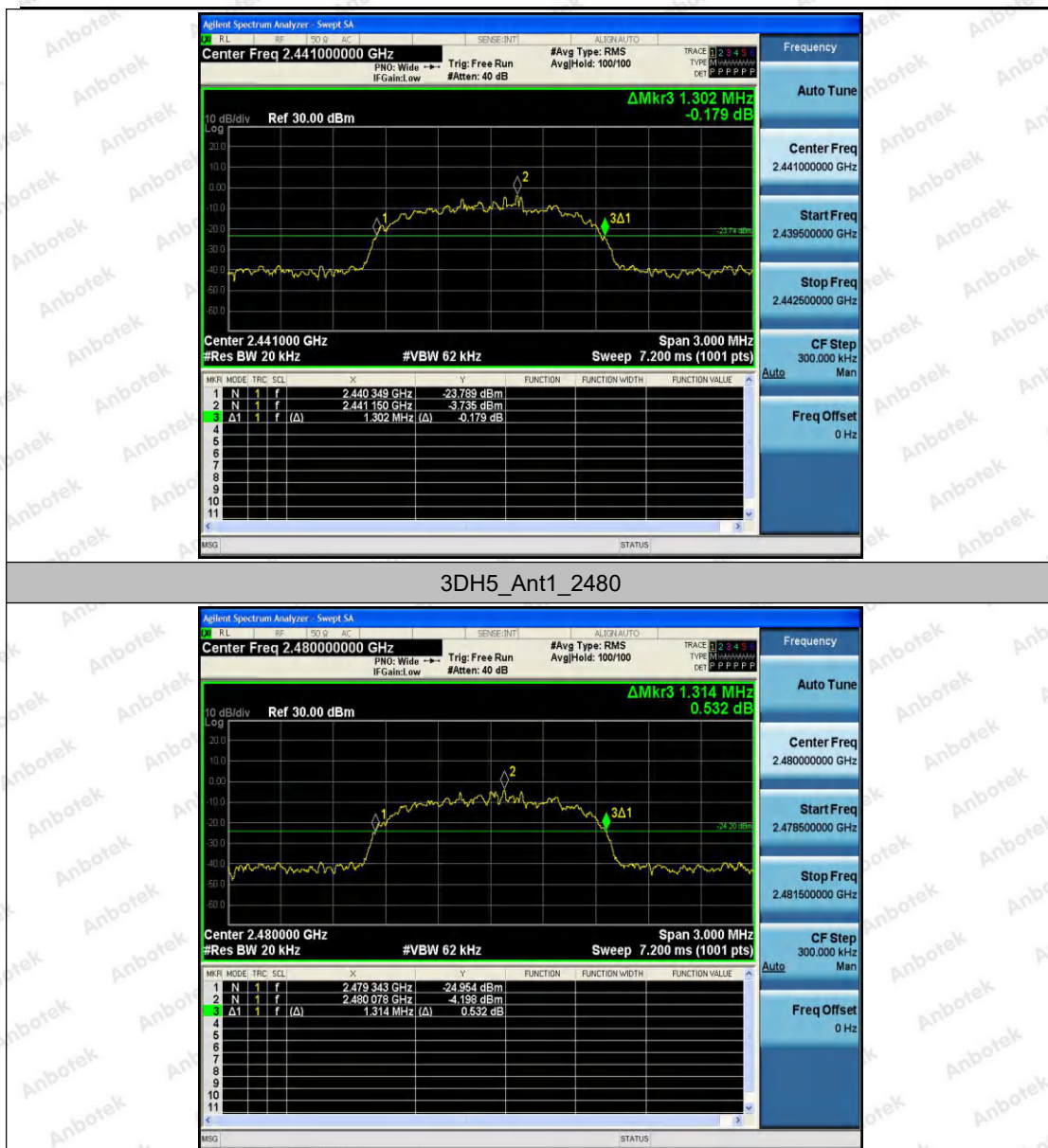
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix B: Occupied Channel Bandwidth

Test Result

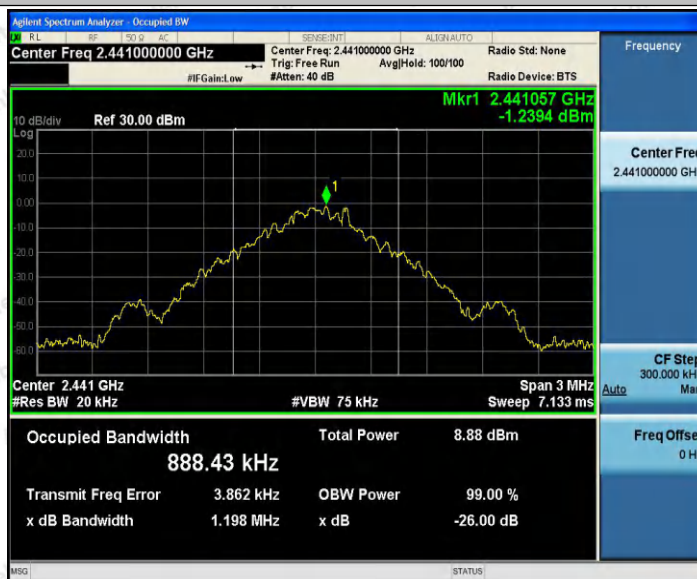
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88199	2401.560	2402.442	---	PASS
		2441	0.88843	2440.560	2441.448	---	PASS
		2480	0.88982	2479.560	2480.449	---	PASS
2DH5	Ant1	2402	1.1876	2401.406	2402.594	---	PASS
		2441	1.2136	2440.394	2441.608	---	PASS
		2480	1.1920	2479.404	2480.596	---	PASS
3DH5	Ant1	2402	1.2165	2401.383	2402.600	---	PASS
		2441	1.2114	2440.386	2441.597	---	PASS
		2480	1.2019	2479.391	2480.593	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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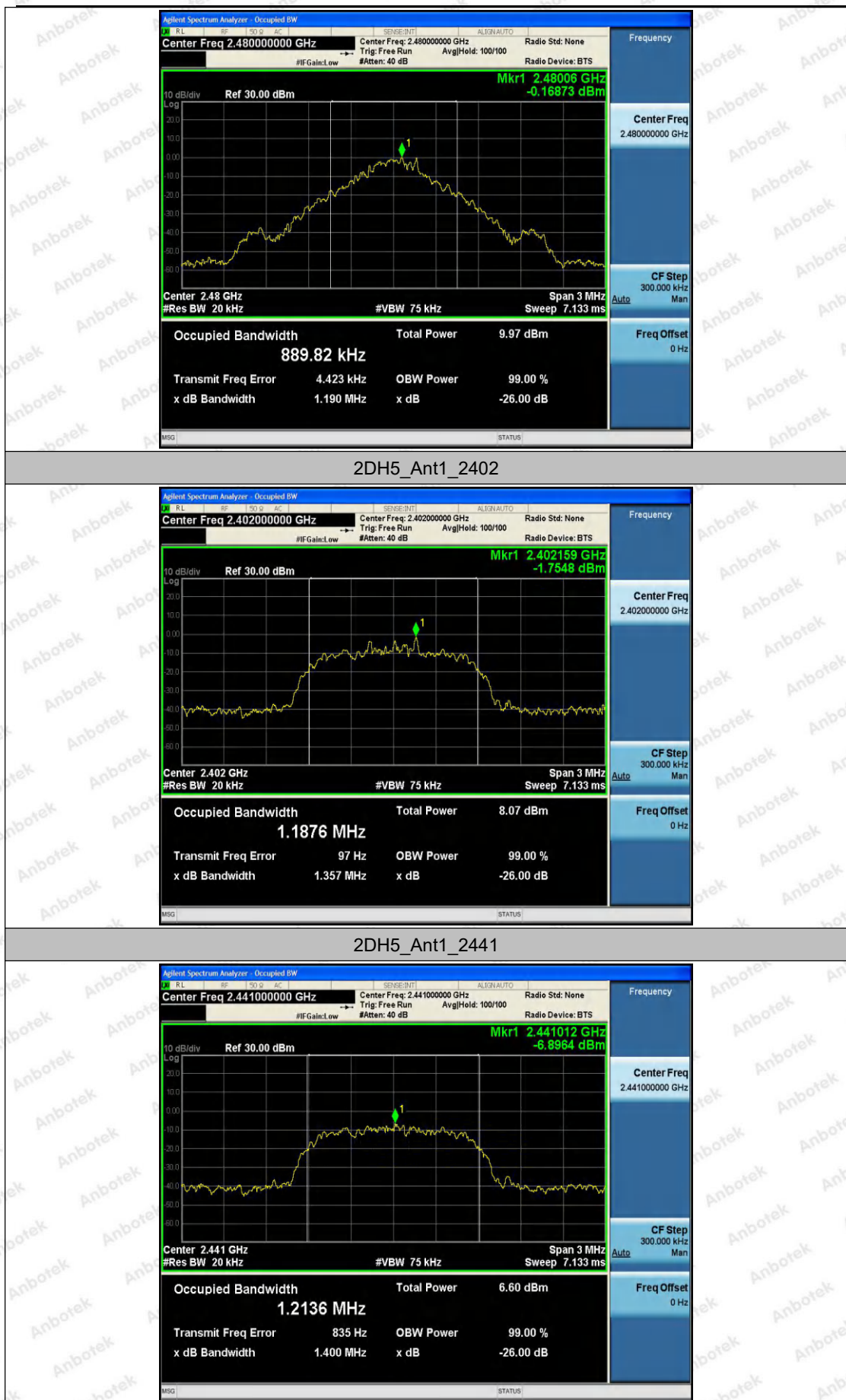
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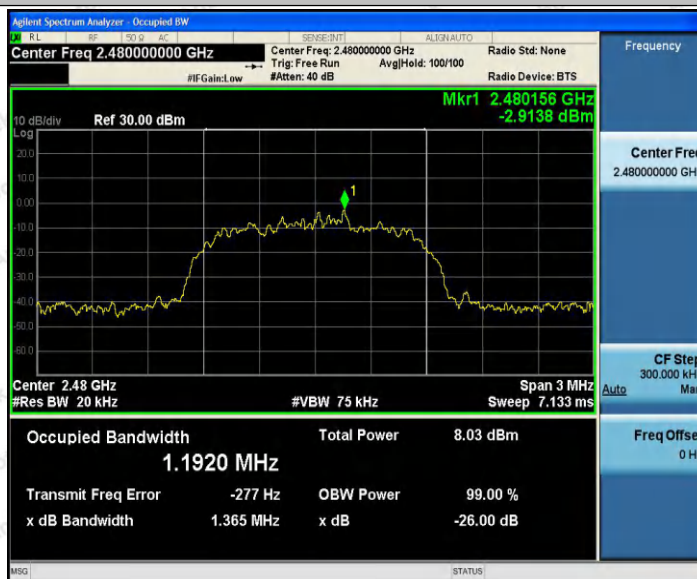
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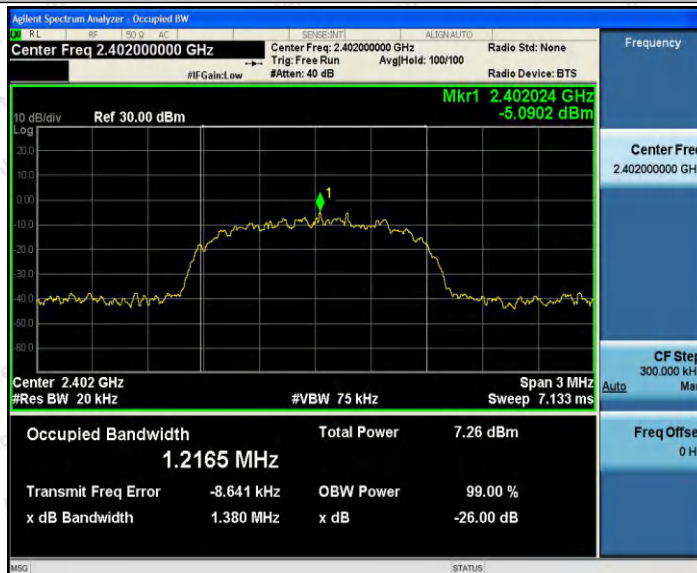
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2DH5_Ant1_2480



3DH5_Ant1_2402



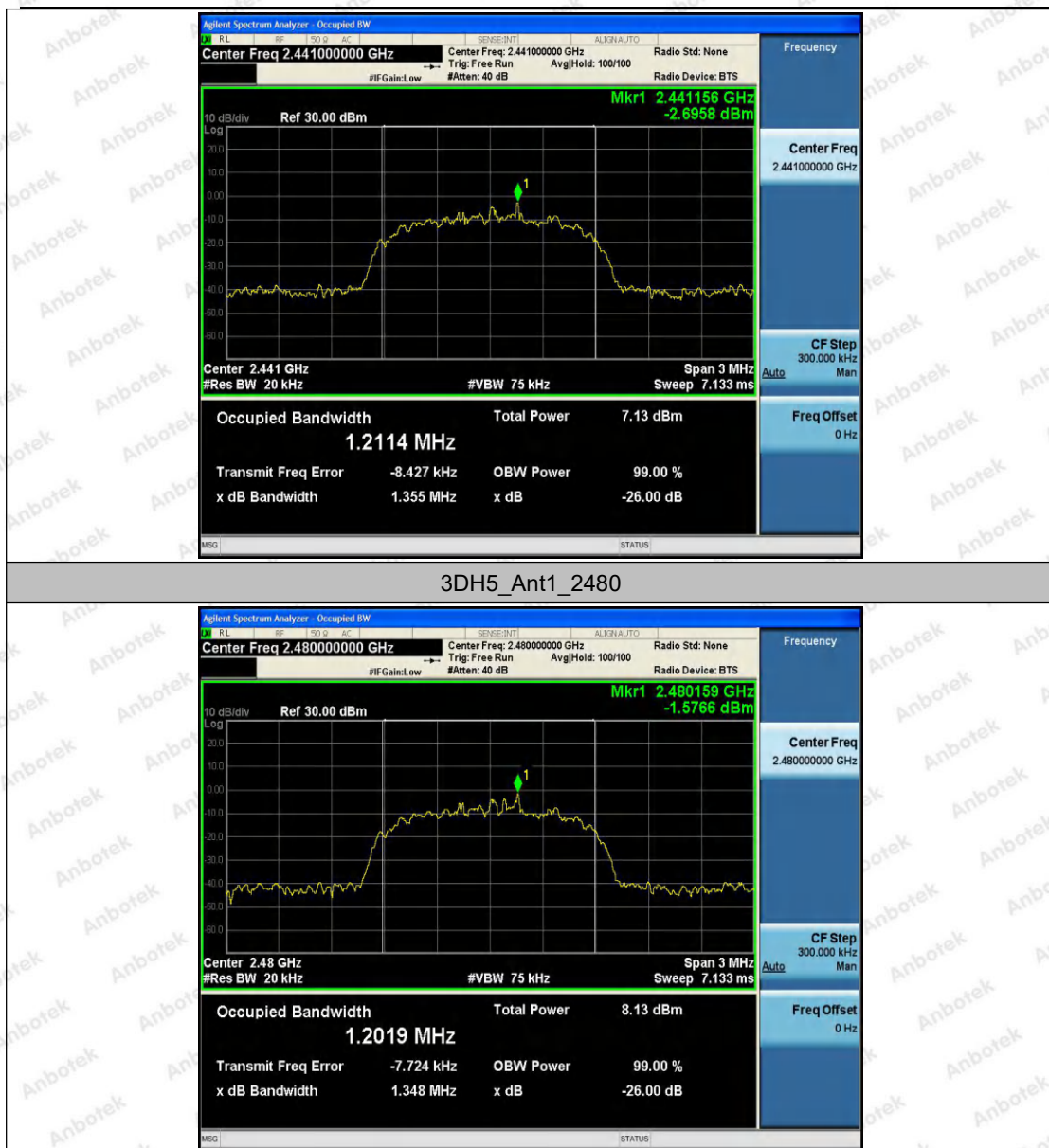
3DH5_Ant1_2441

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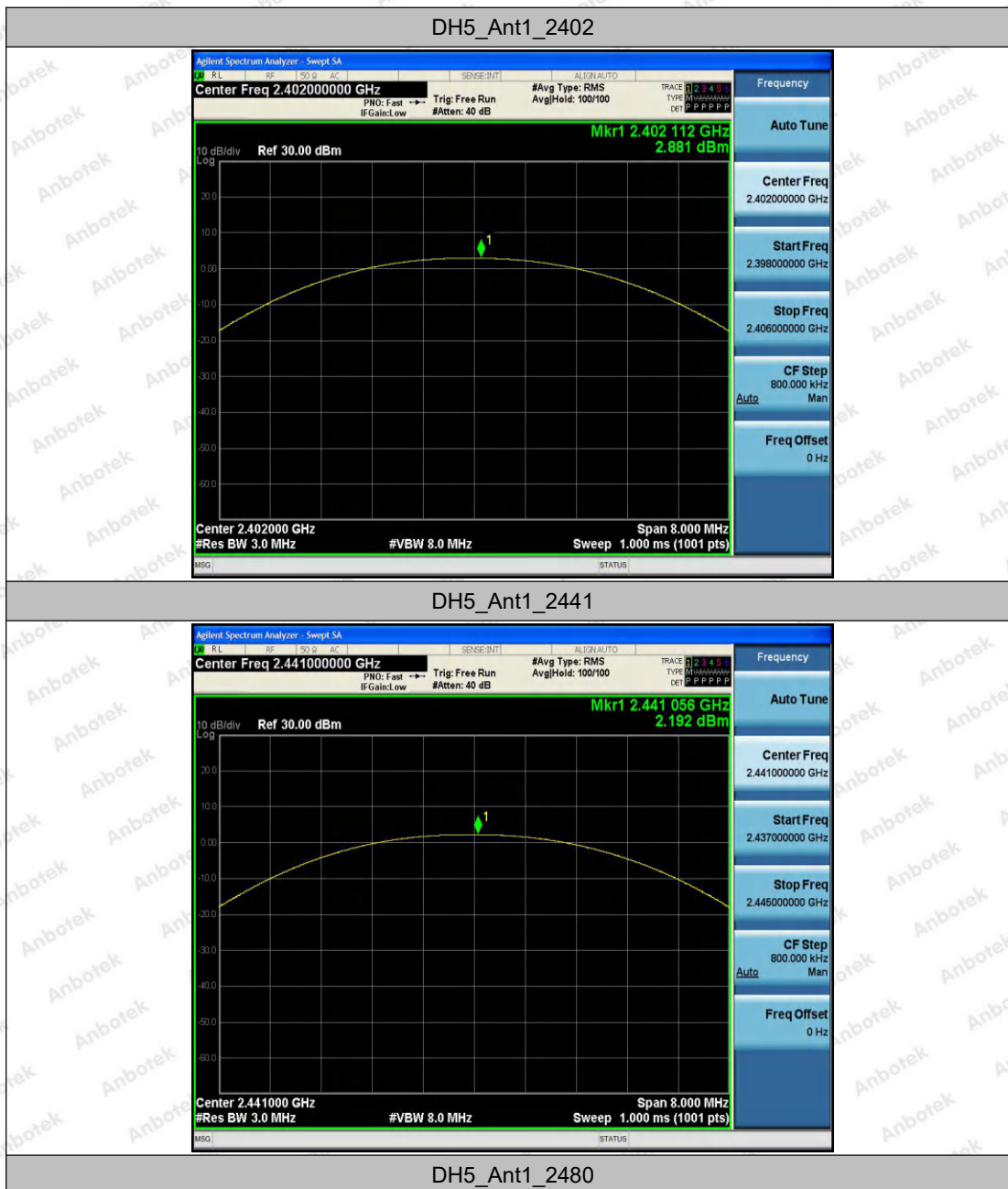
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.88	≤20.97	PASS
		2441	2.19	≤20.97	PASS
		2480	3.17	≤20.97	PASS
2DH5	Ant1	2402	2.42	≤20.97	PASS
		2441	1.82	≤20.97	PASS
		2480	2.72	≤20.97	PASS
3DH5	Ant1	2402	2.58	≤20.97	PASS
		2441	1.93	≤20.97	PASS
		2480	2.87	≤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	1.174	≥ 0.948	PASS
2DH5	Ant1	Hop	0.932	≥ 0.884	PASS
3DH5	Ant1	Hop	1.154	≥ 0.876	PASS

Test Graphs

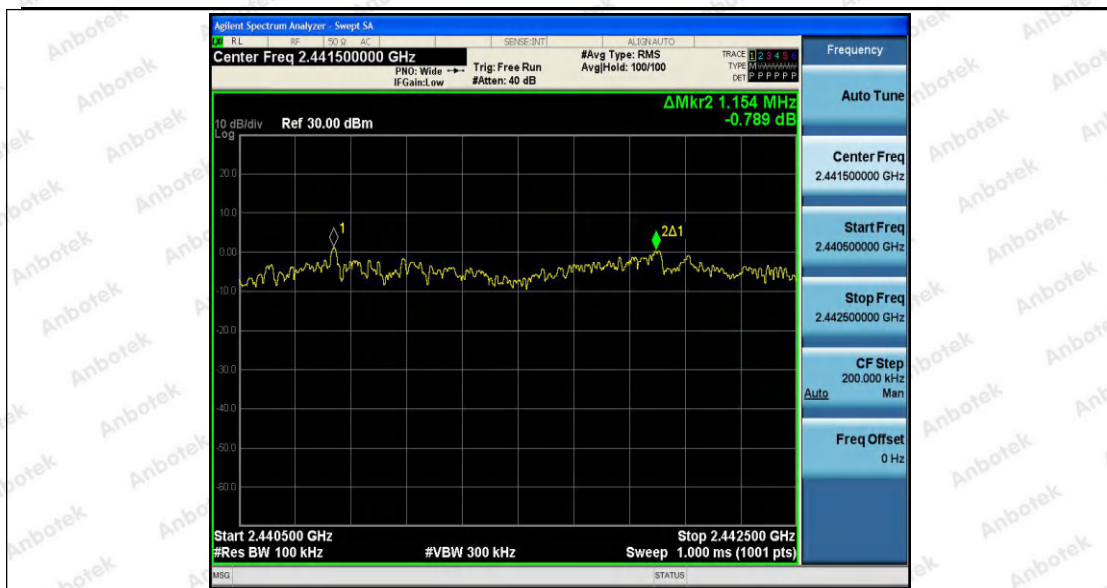


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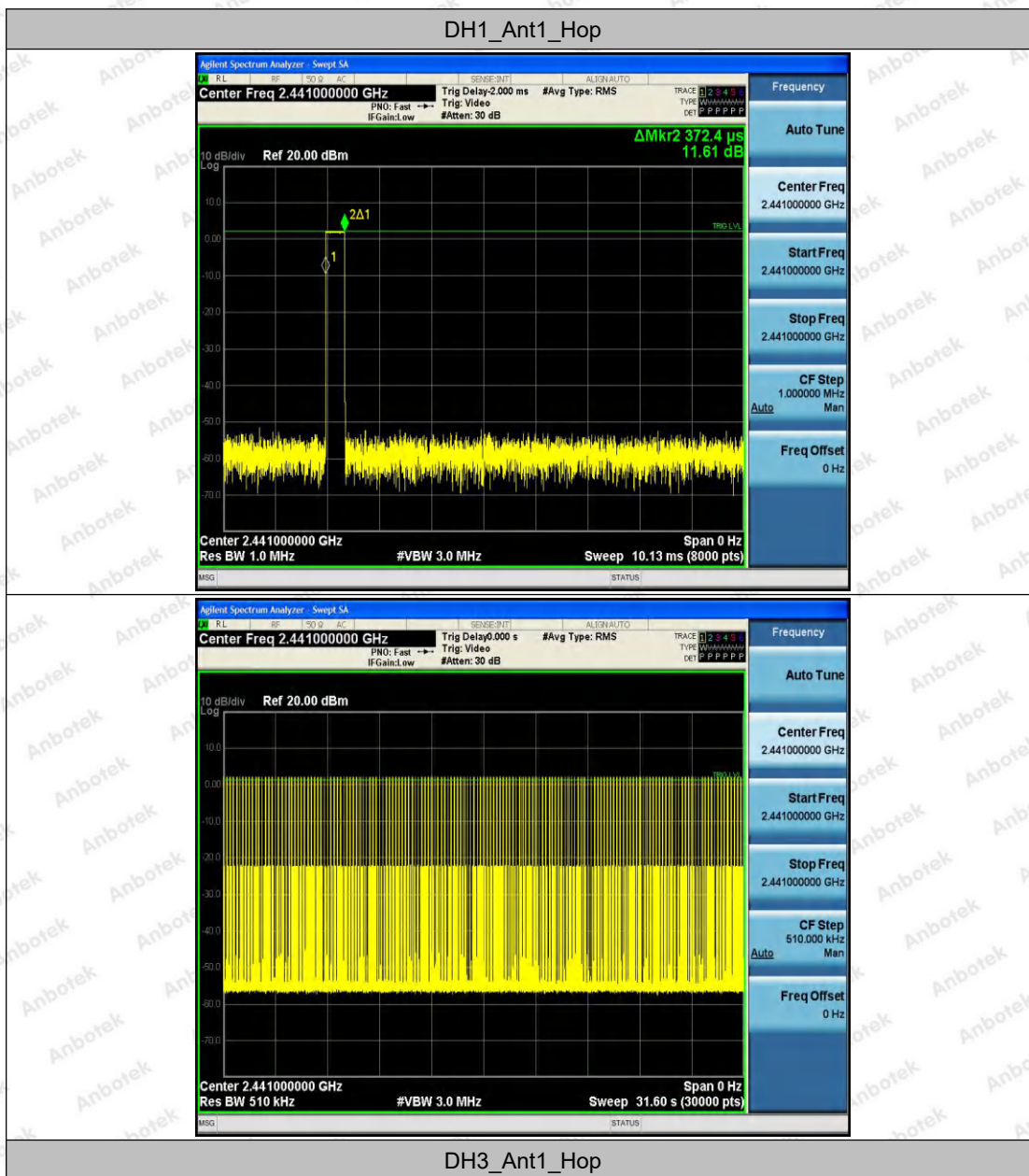
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	102	0.293	≤0.4	PASS
2DH1	Ant1	Hop	0.38	315	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	106	0.306	≤0.4	PASS

Test Graphs





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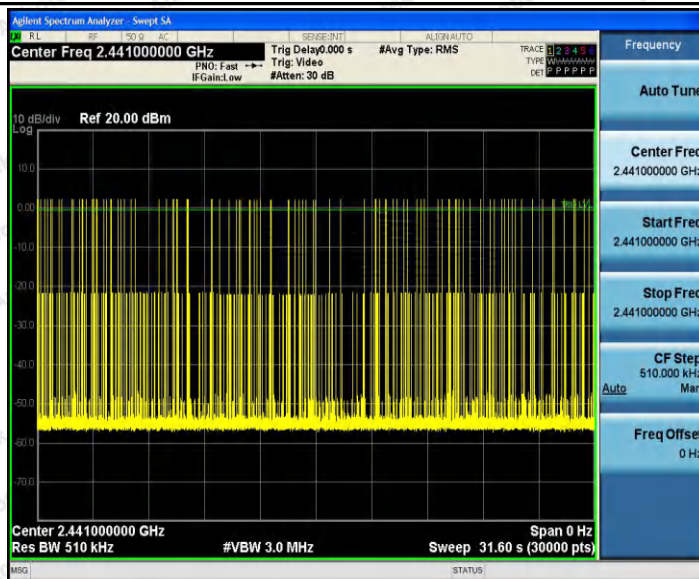
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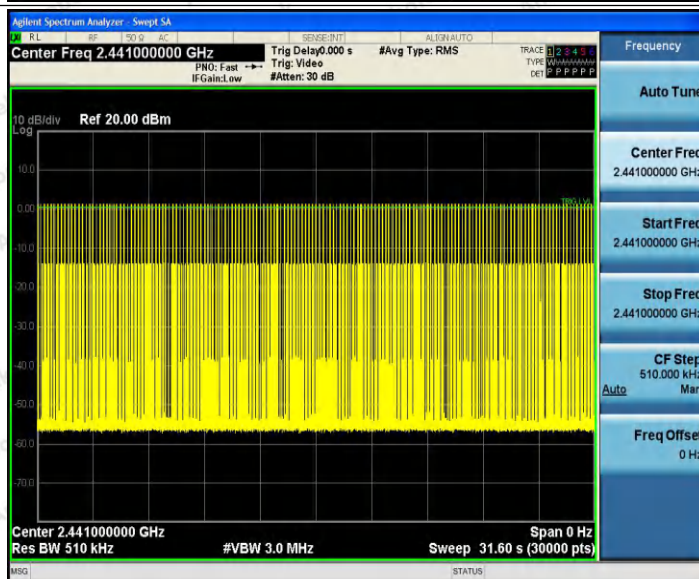
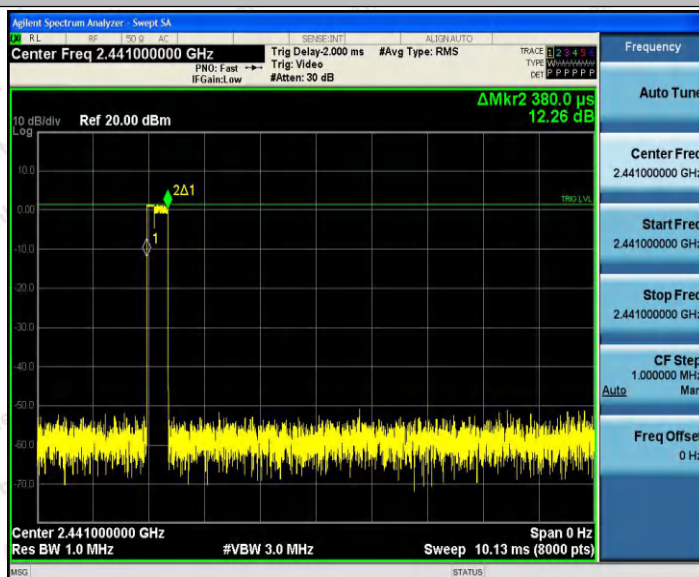
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2DH1_Ant1_Hop



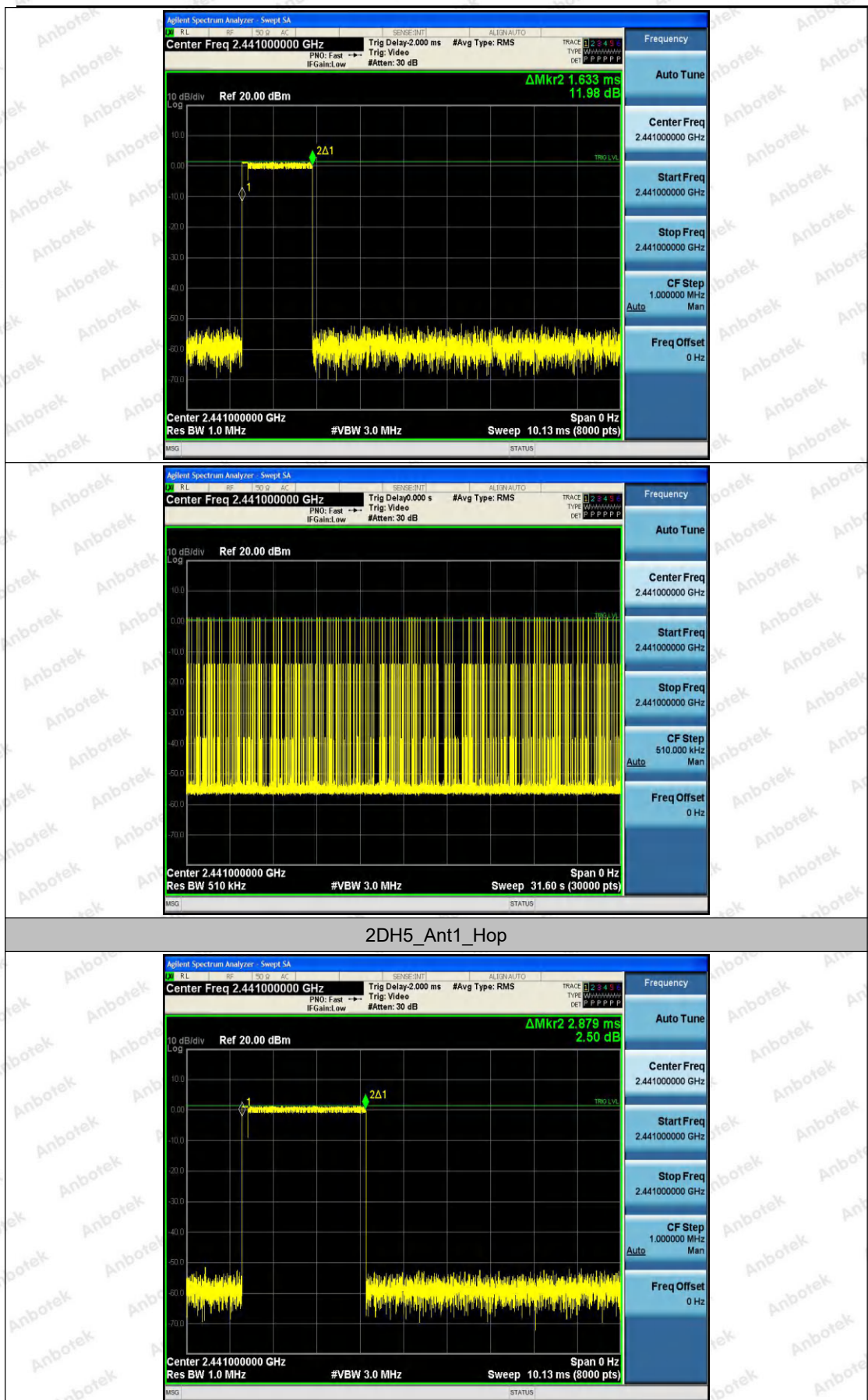
2DH3_Ant1_Hop

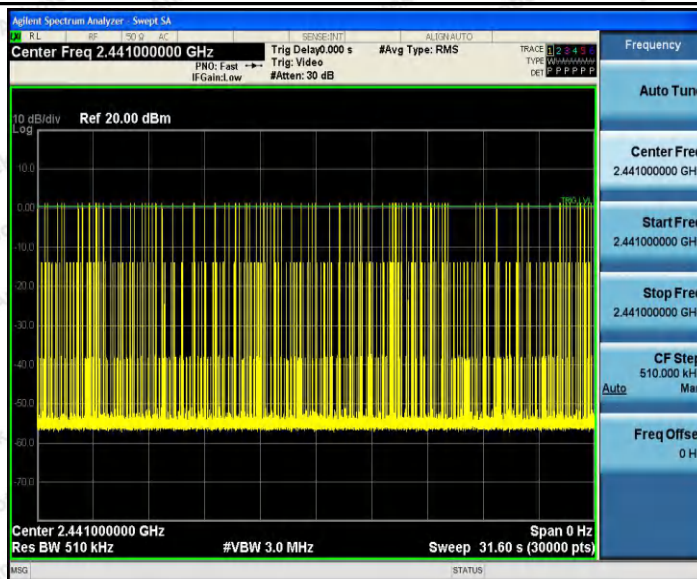
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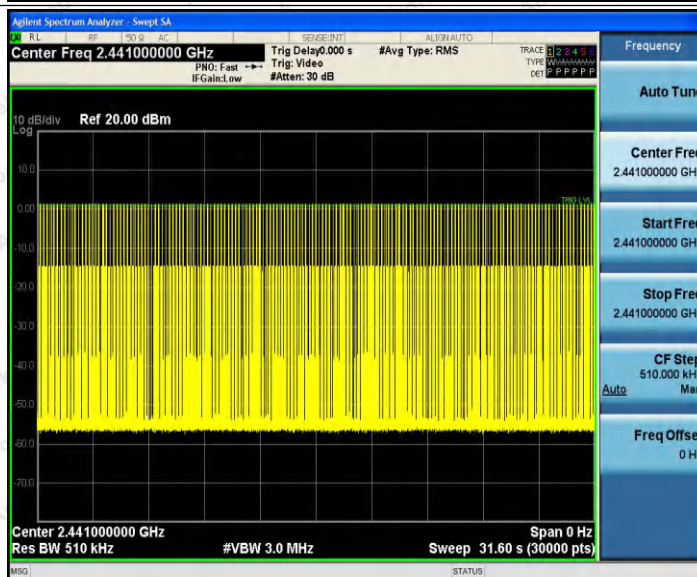
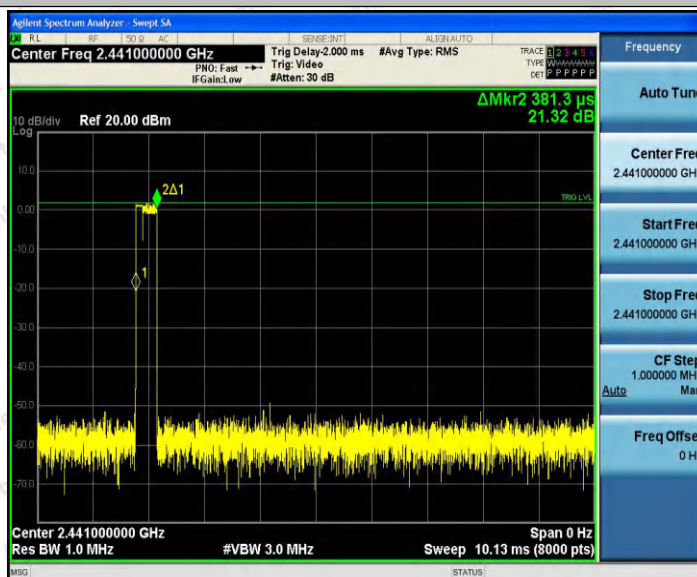
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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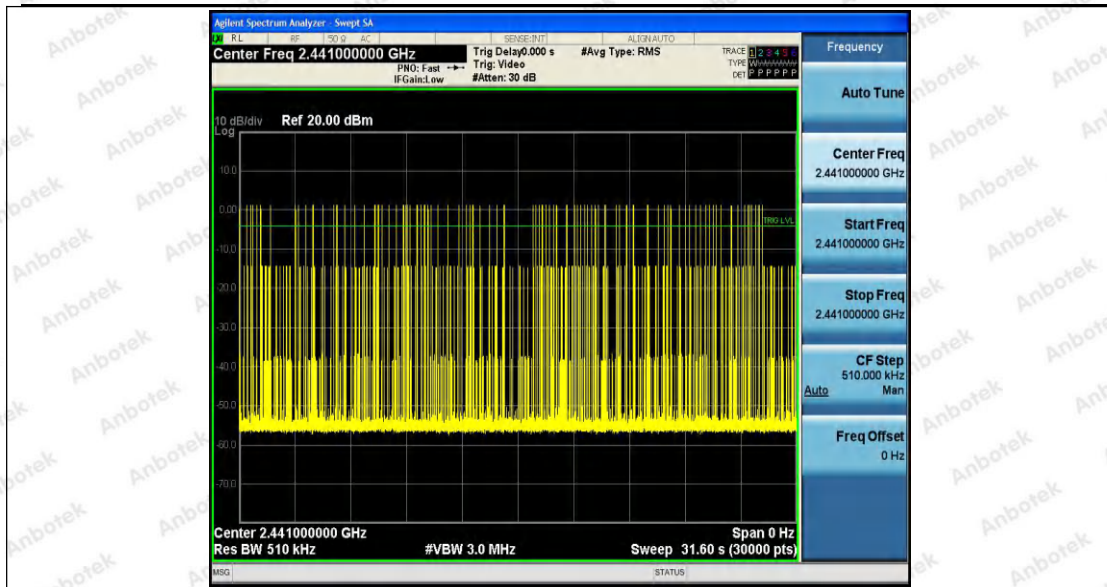
3DH5_Ant1_Hop

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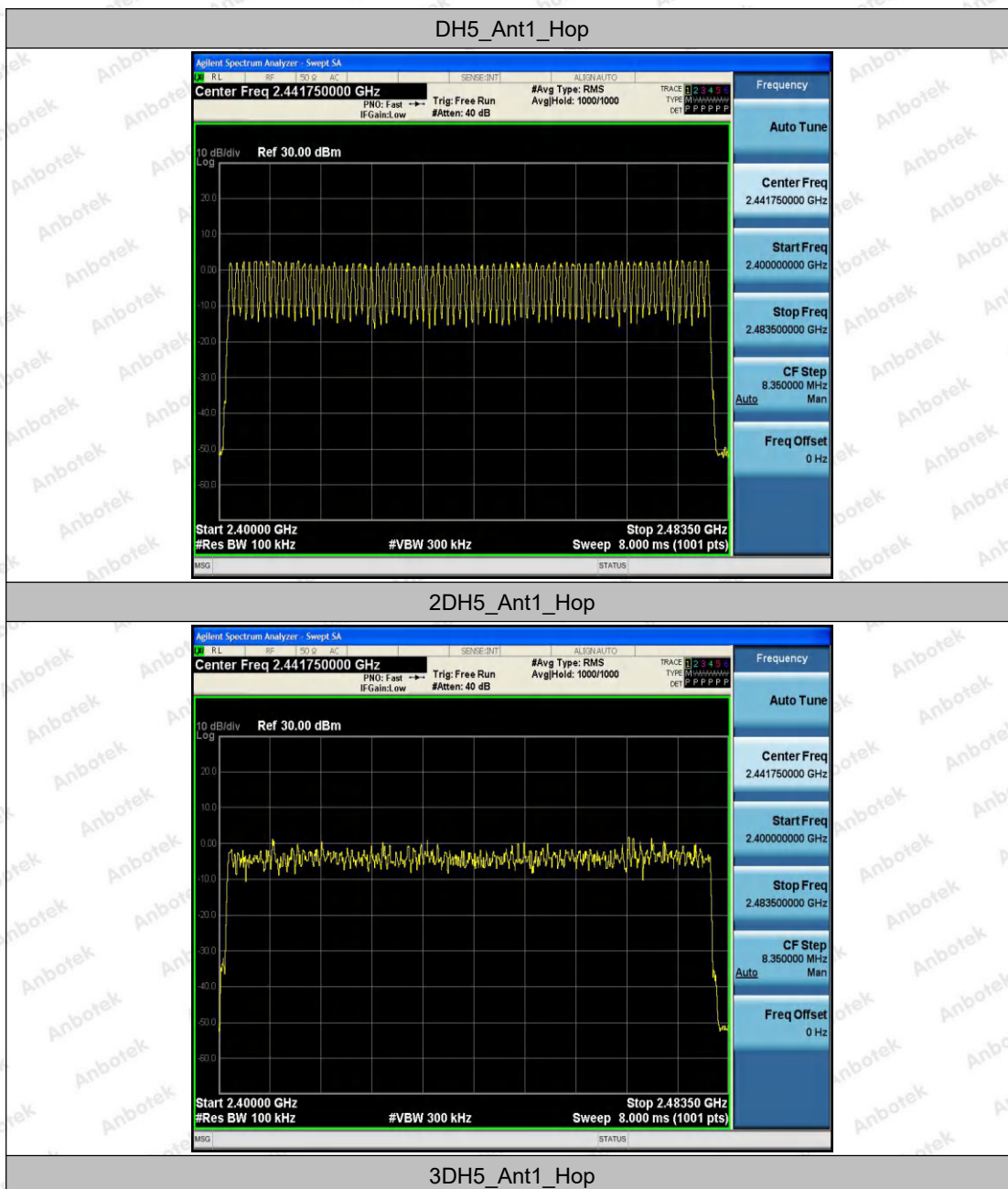
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Appendix F: Number of hopping channels

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

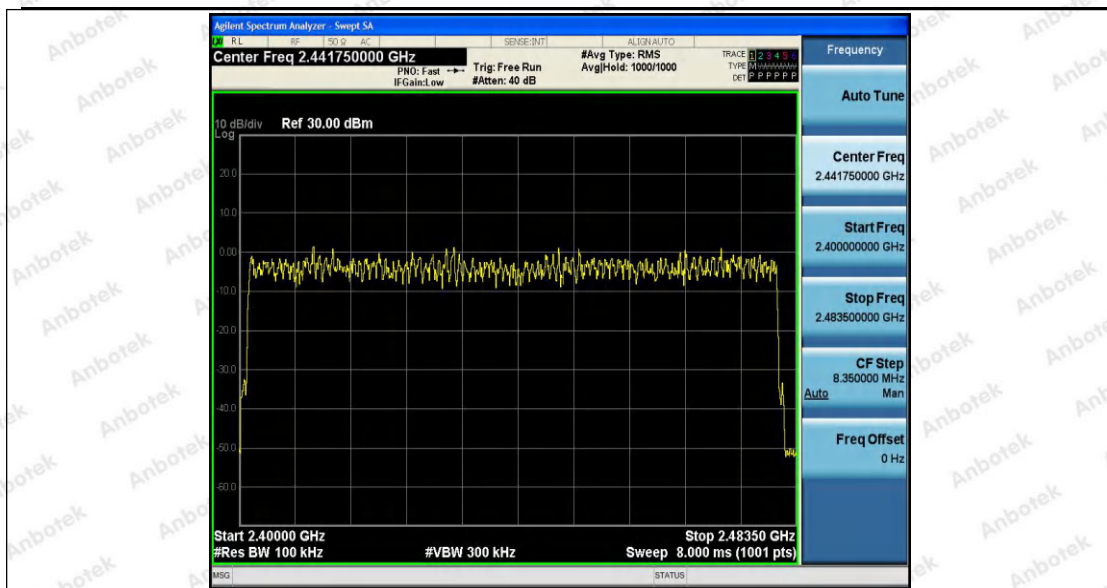


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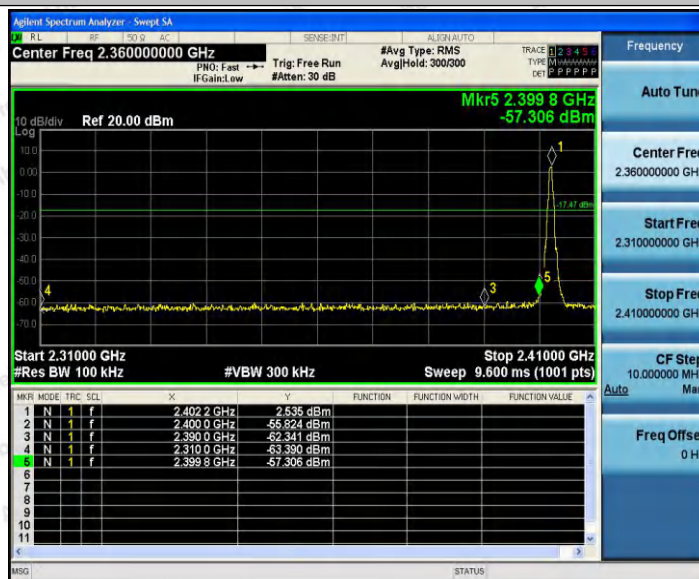
Appendix G: Band edge measurements

Test Result

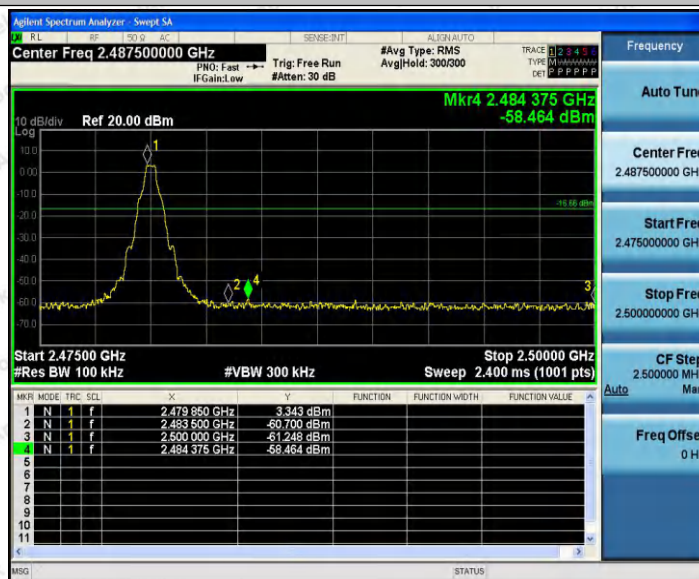
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.54	-57.31	≤-17.47	PASS
		High	2480	3.34	-58.46	≤-16.66	PASS
		Low	Hop	2.52	-60.04	≤-17.48	PASS
		High	Hop	3.12	-62.14	≤-16.88	PASS
2DH5	Ant1	Low	2402	1.29	-54.93	≤-18.71	PASS
		High	2480	1.11	-59.01	≤-18.89	PASS
		Low	Hop	-0.14	-60.08	≤-20.14	PASS
		High	Hop	-2.63	-62.07	≤-22.63	PASS
3DH5	Ant1	Low	2402	-0.62	-54.98	≤-20.62	PASS
		High	2480	2.06	-58.32	≤-17.94	PASS
		Low	Hop	-1.46	-59.26	≤-21.46	PASS
		High	Hop	-1.19	-61.37	≤-21.19	PASS

Test Graphs

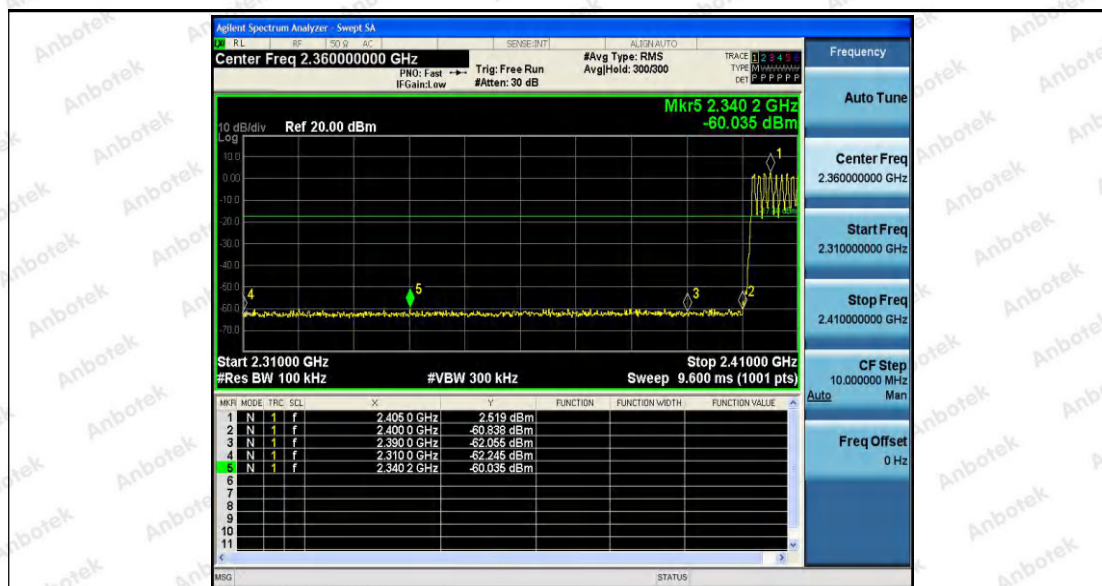
DH5_Ant1_Low_2402



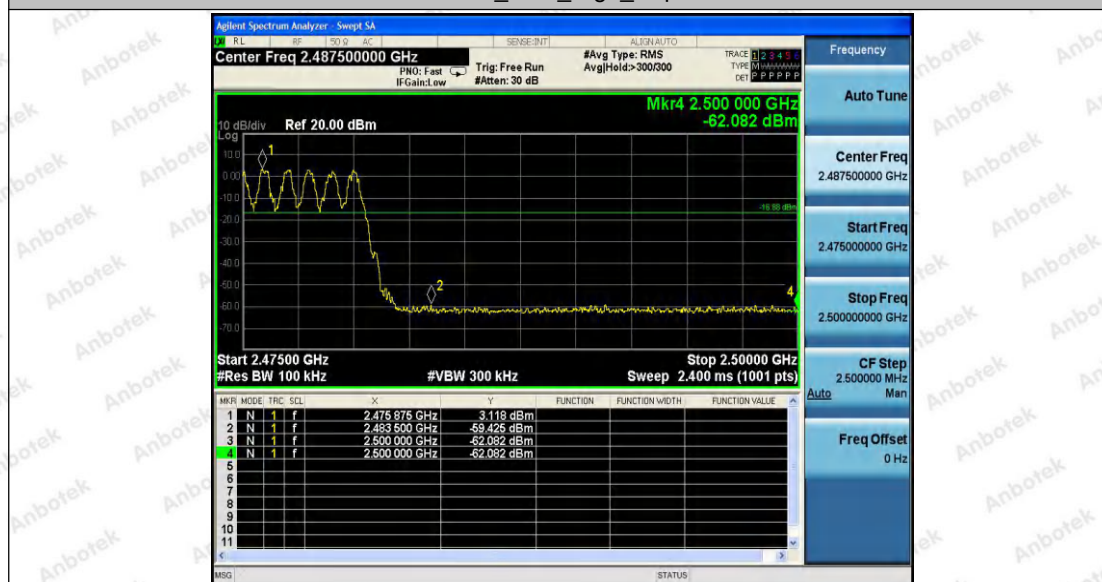
DH5_Ant1_High_2480



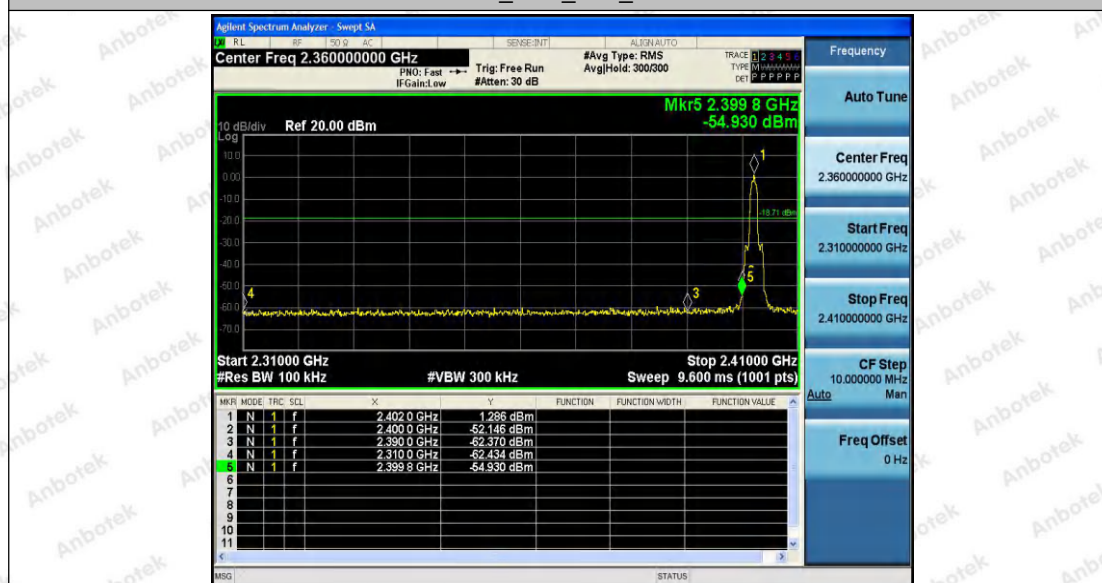
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



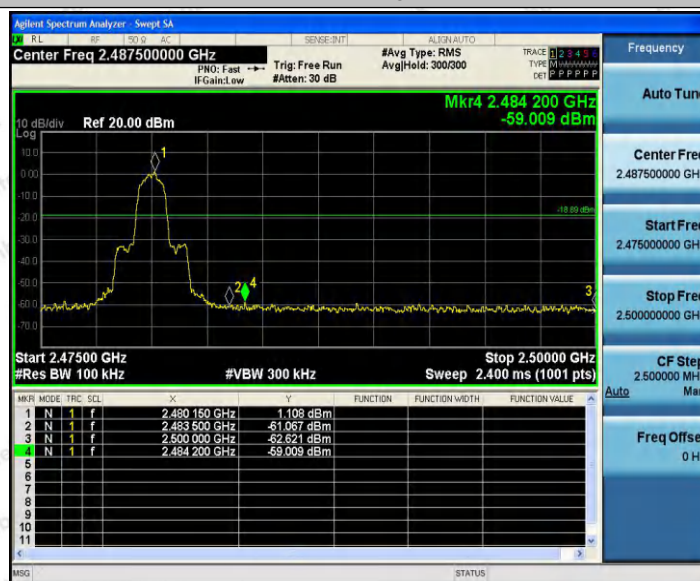
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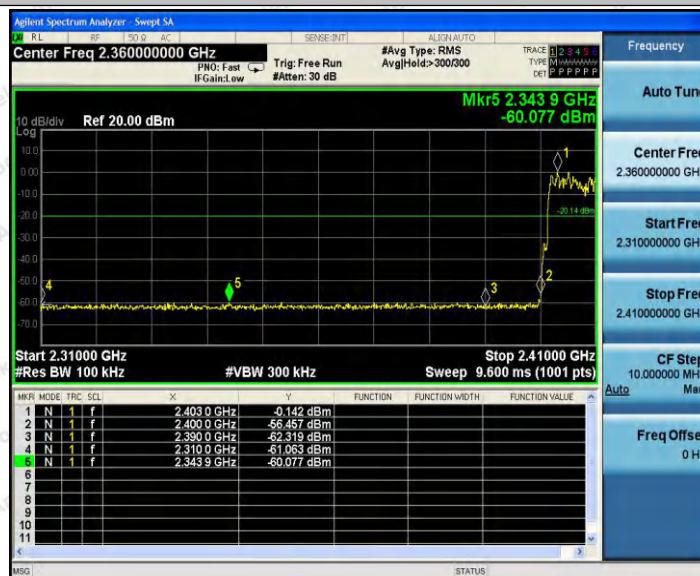
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



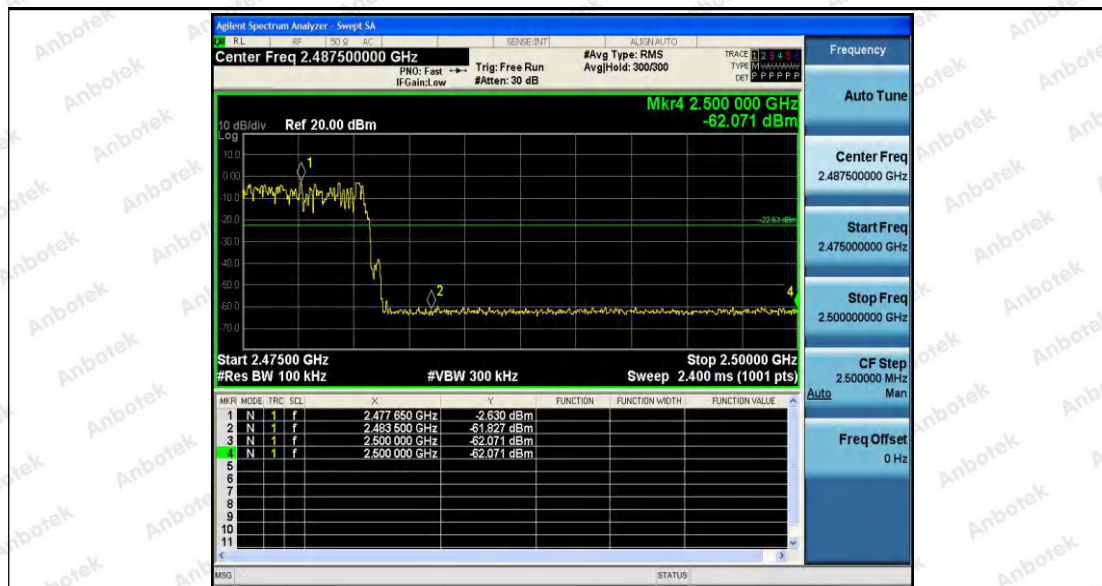
2DH5_Ant1_High_Hop

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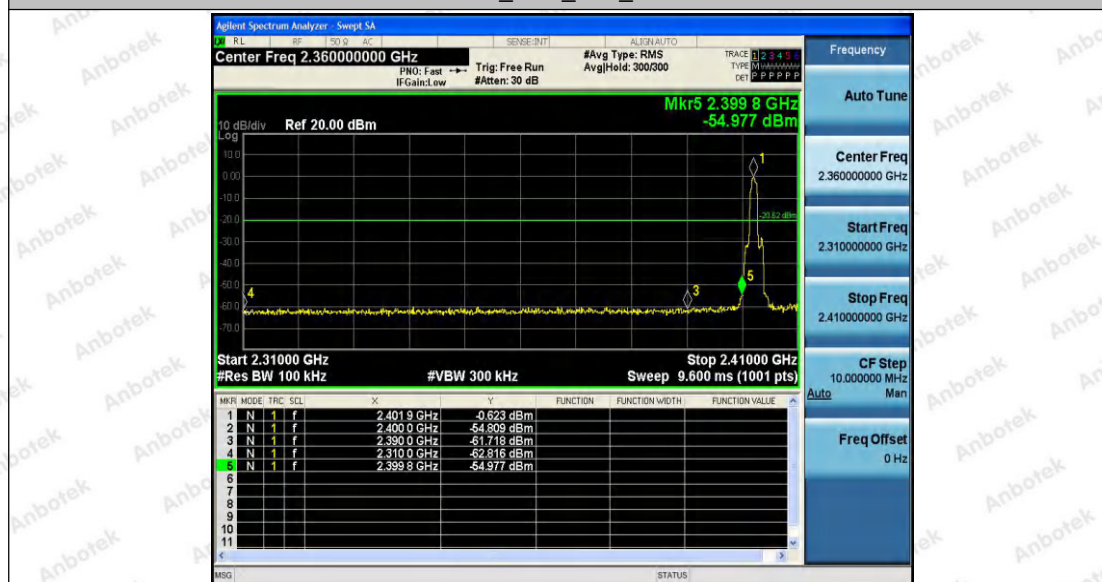
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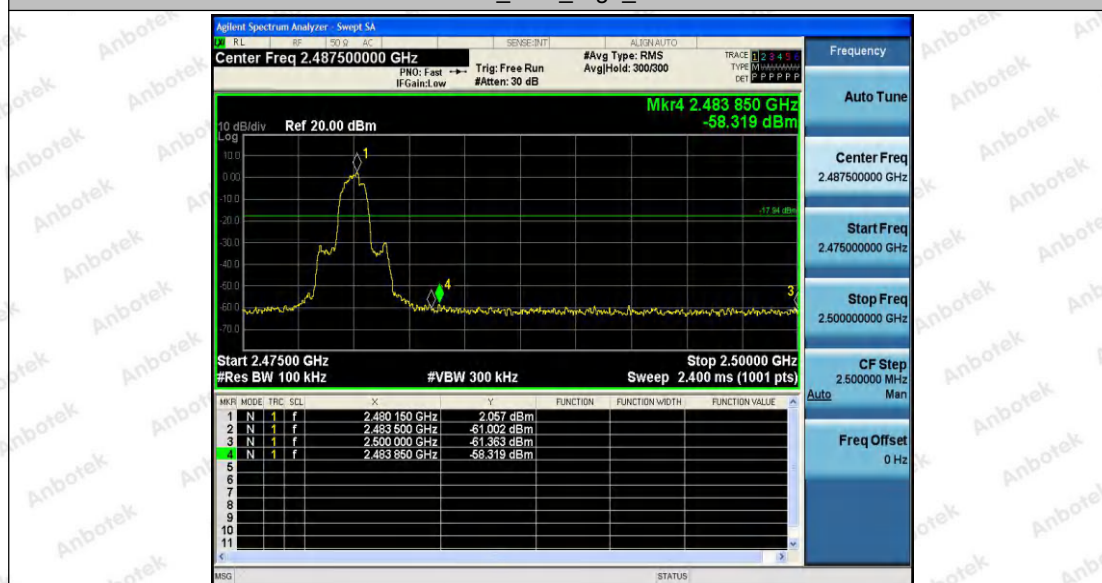
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

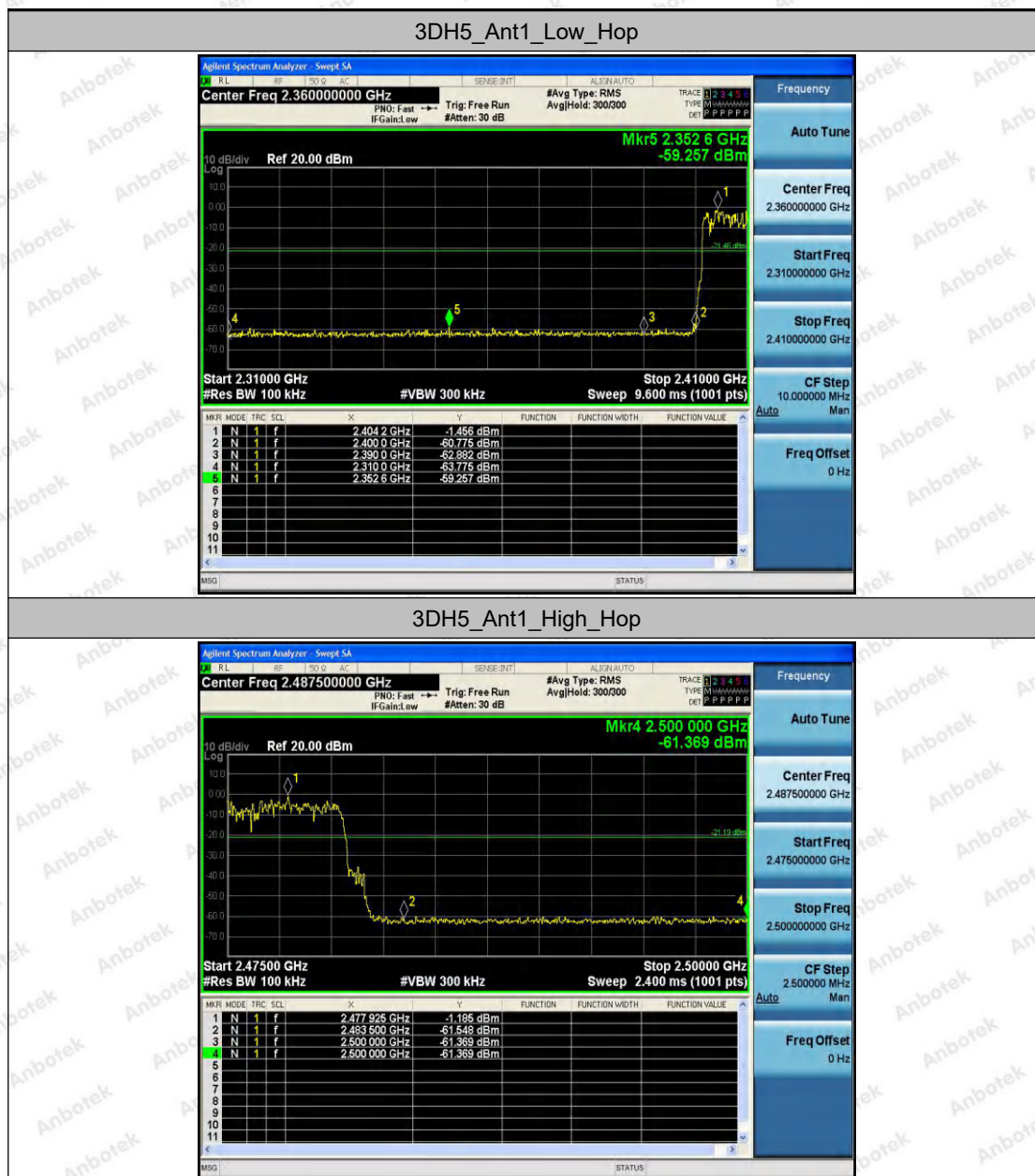


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Appendix H: Conducted Spurious Emission

Test Result

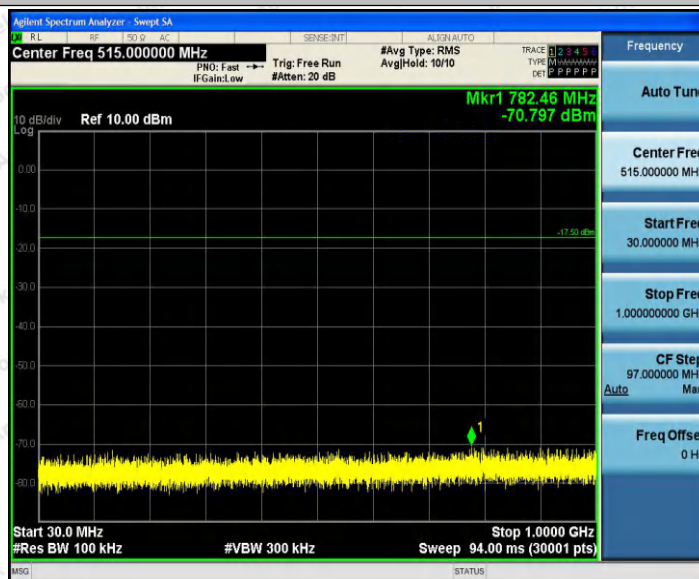
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.50	2.50	---	PASS
			30~1000	2.50	-70.8	≤-17.5	PASS
			1000~26500	2.50	-55.01	≤-17.5	PASS
		2441	Reference	1.83	1.83	---	PASS
			30~1000	1.83	-70.07	≤-18.17	PASS
			1000~26500	1.83	-55.02	≤-18.17	PASS
		2480	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-70.4	≤-17.1	PASS
			1000~26500	2.91	-55.49	≤-17.1	PASS
2DH5	Ant1	2402	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-70.26	≤-18.53	PASS
			1000~26500	1.47	-54.74	≤-18.53	PASS
		2441	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-70.52	≤-19.02	PASS
			1000~26500	0.98	-55.53	≤-19.02	PASS
		2480	Reference	1.26	1.26	---	PASS
			30~1000	1.26	-70.49	≤-18.74	PASS
			1000~26500	1.26	-55.79	≤-18.74	PASS
3DH5	Ant1	2402	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-70.14	≤-19.66	PASS
			1000~26500	0.35	-55.73	≤-19.66	PASS
		2441	Reference	0.33	0.33	---	PASS
			30~1000	0.33	-70.86	≤-19.67	PASS
			1000~26500	0.33	-55.04	≤-19.67	PASS
		2480	Reference	1.89	1.89	---	PASS
			30~1000	1.89	-70.49	≤-18.11	PASS
			1000~26500	1.89	-55.57	≤-18.11	PASS

Test Graphs

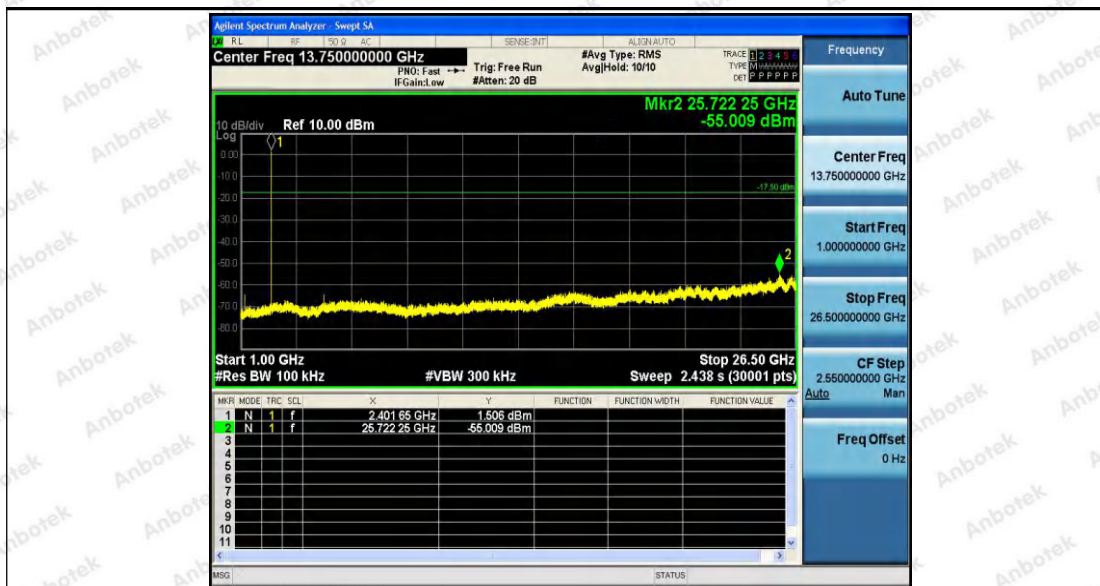
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



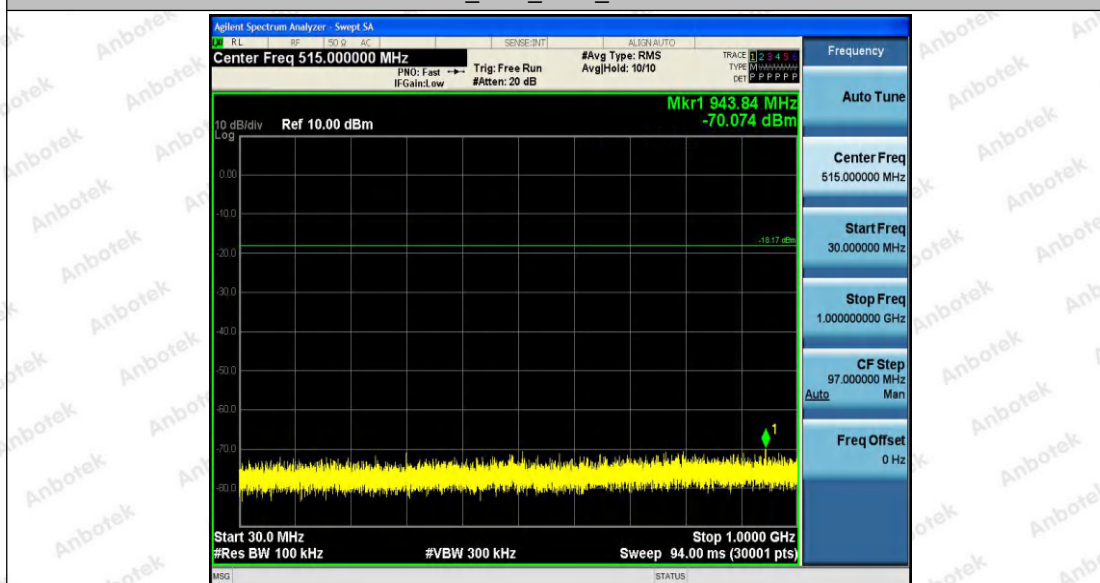
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



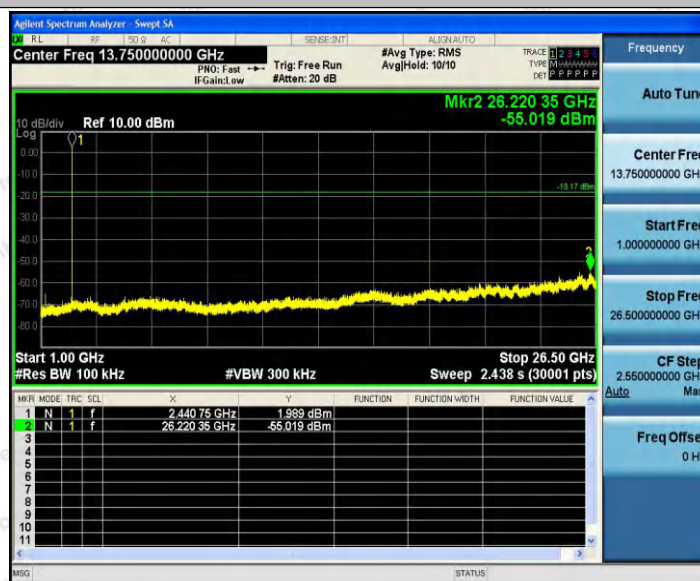
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



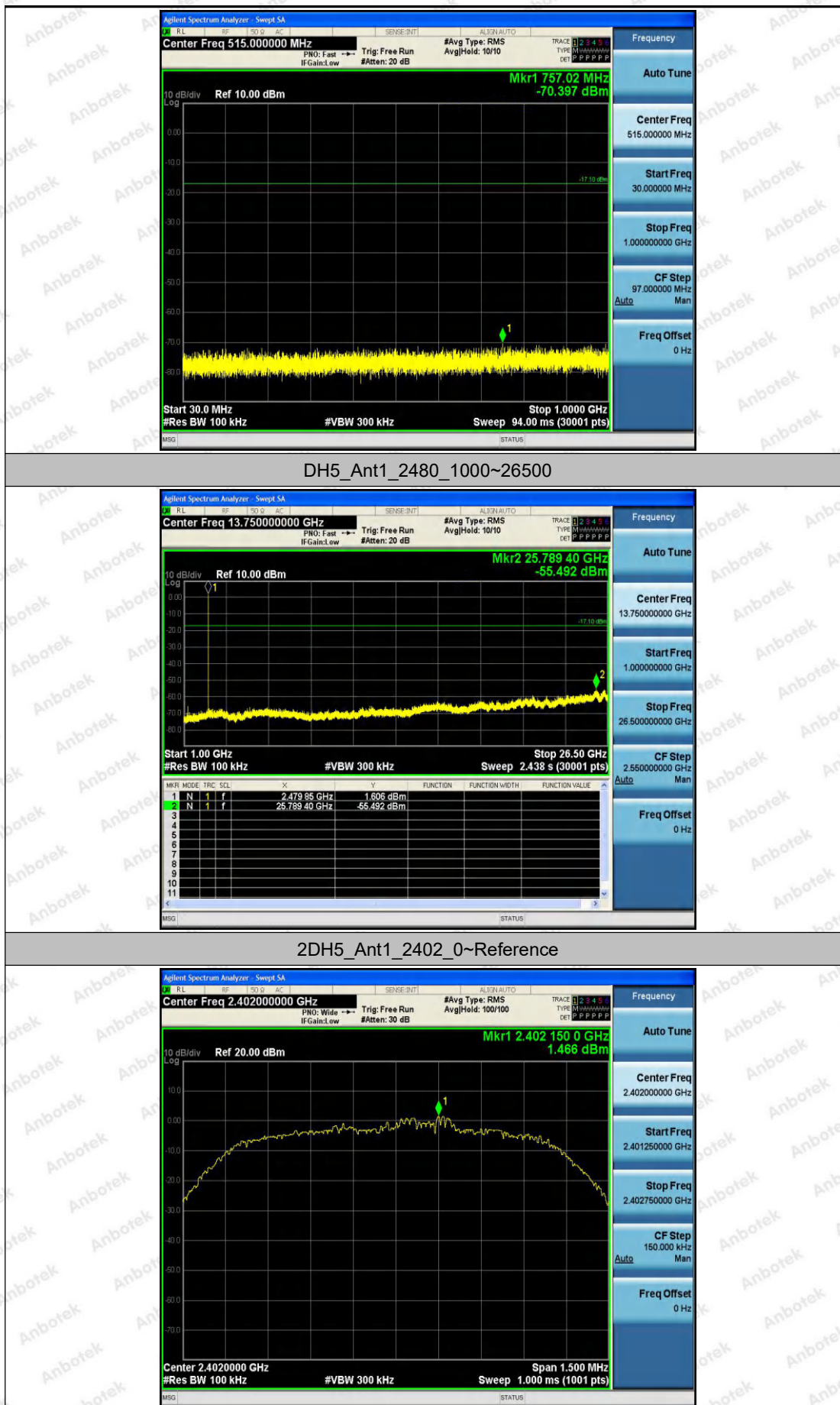
DH5_Ant1_2480_30~1000

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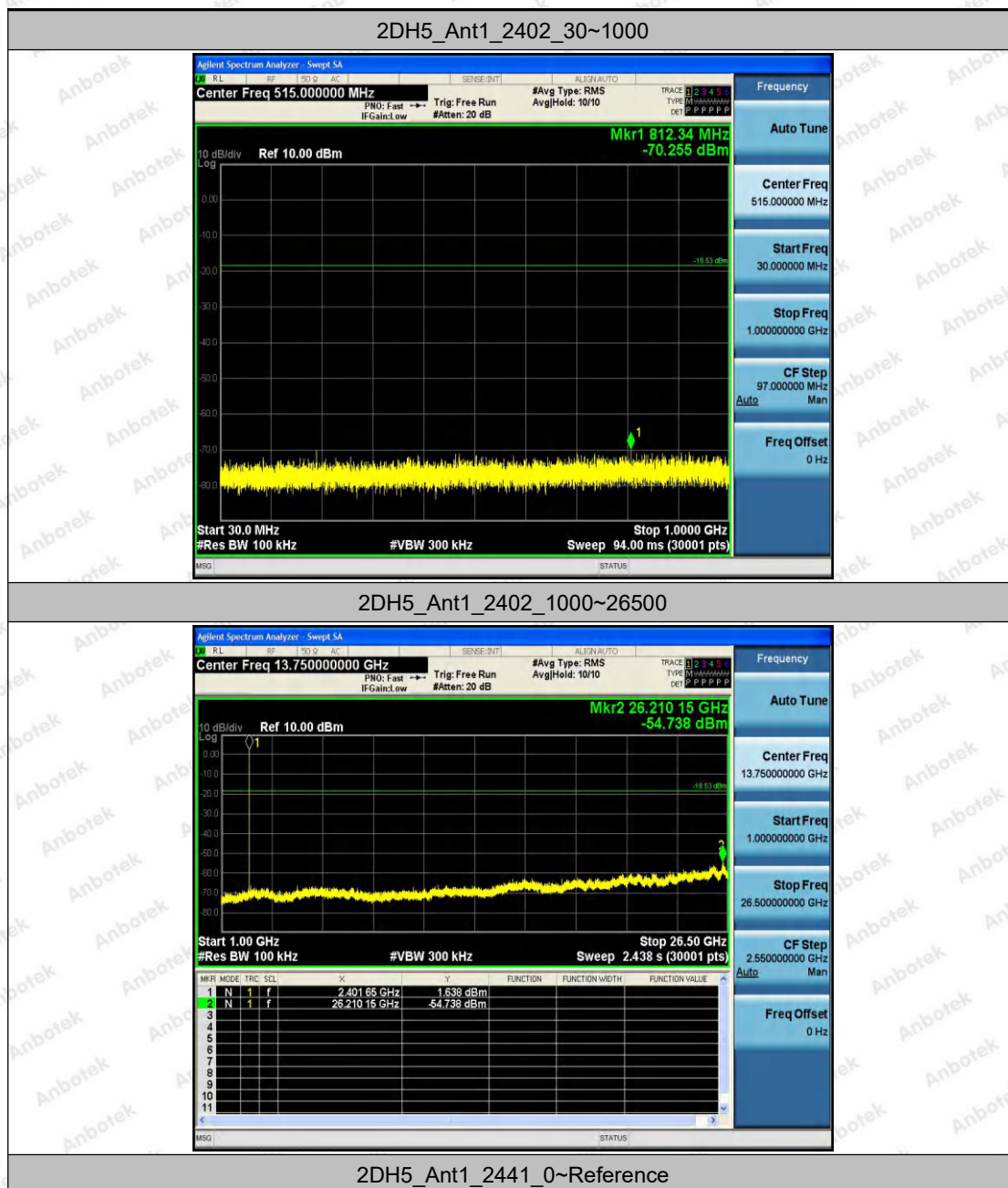


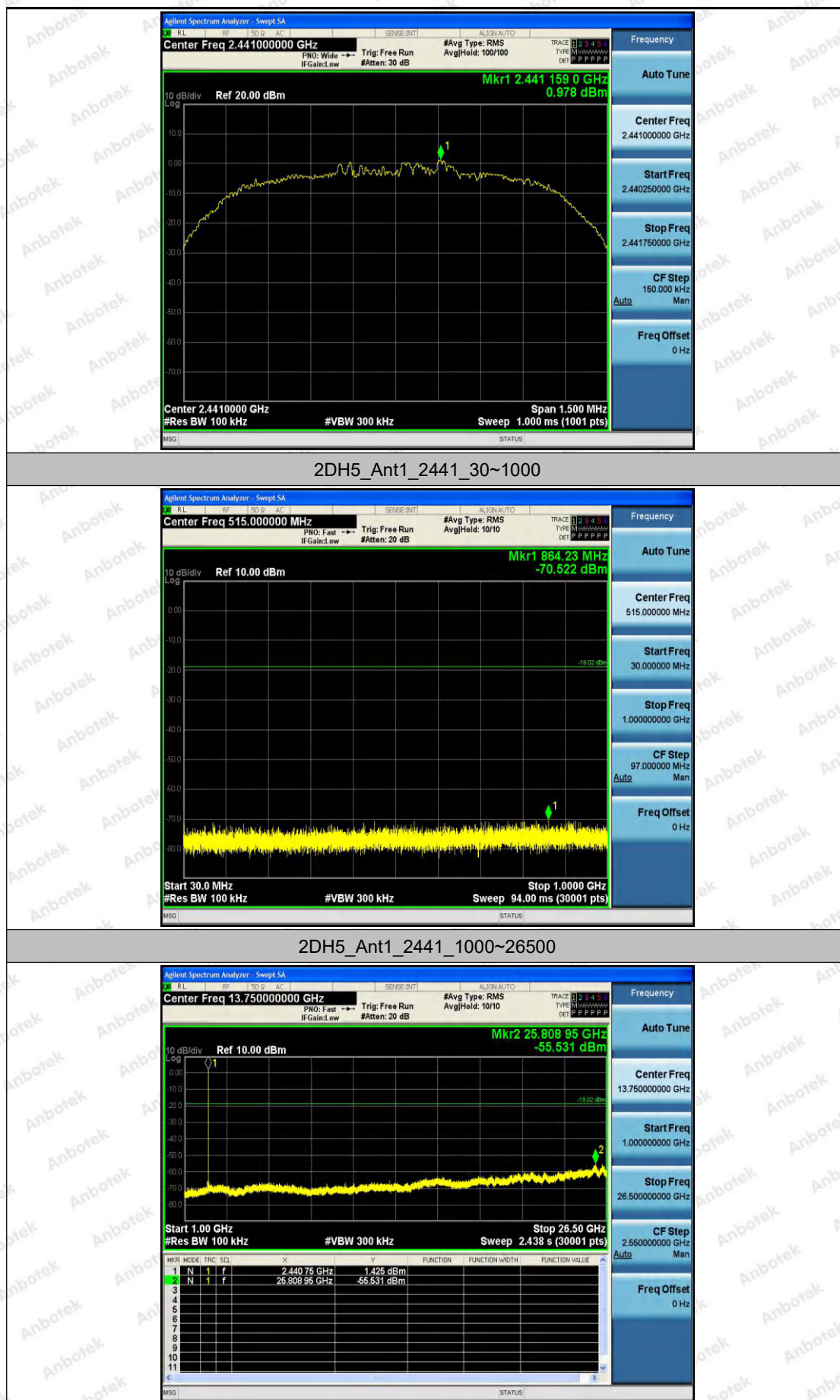
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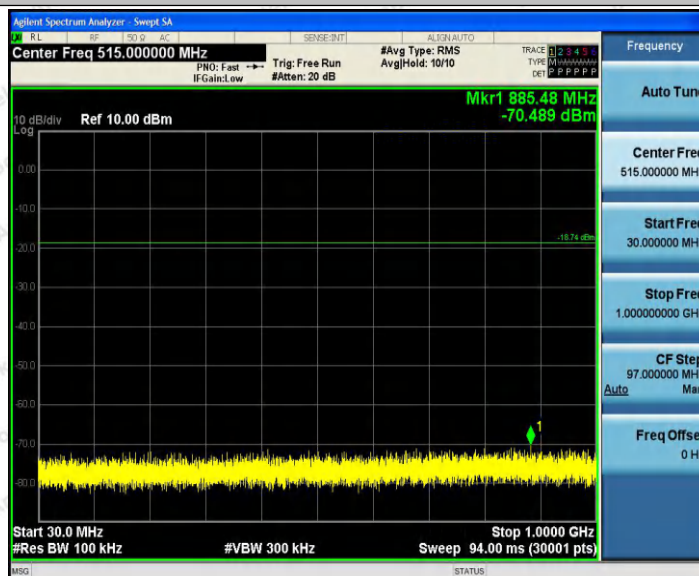
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



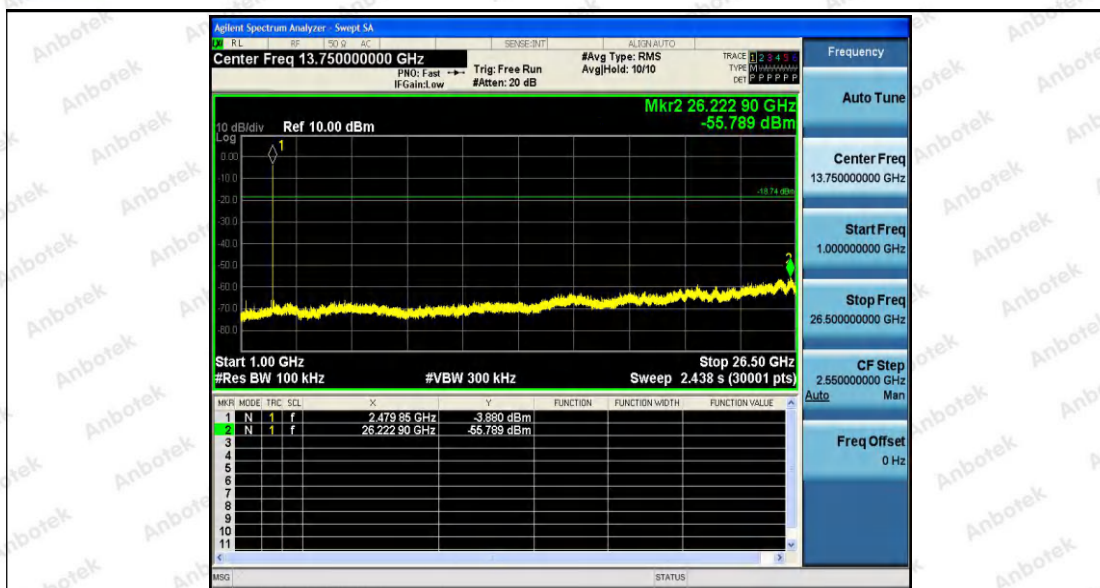
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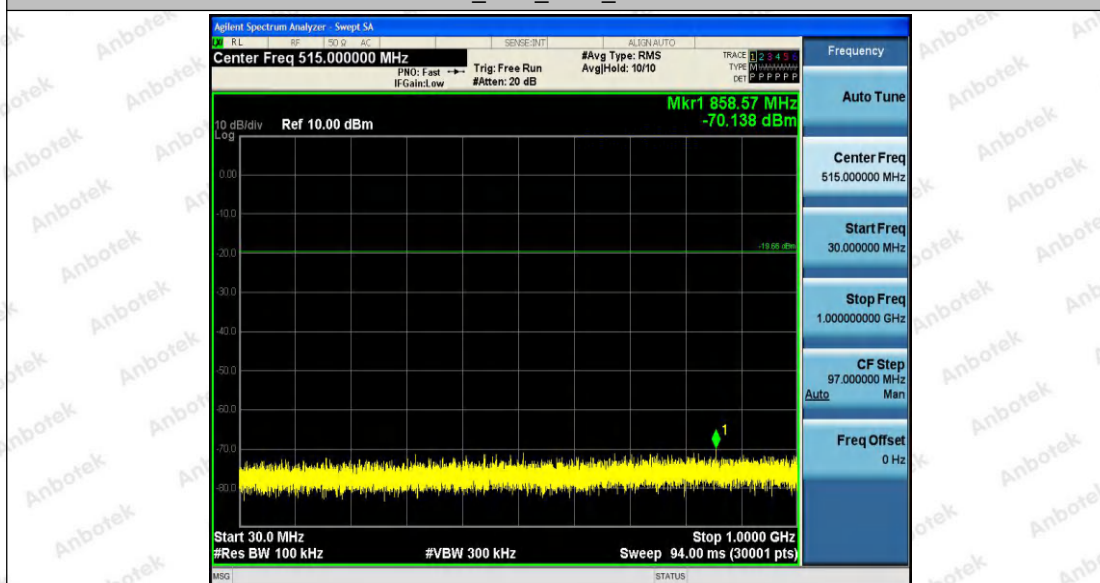
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400-003-0500
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



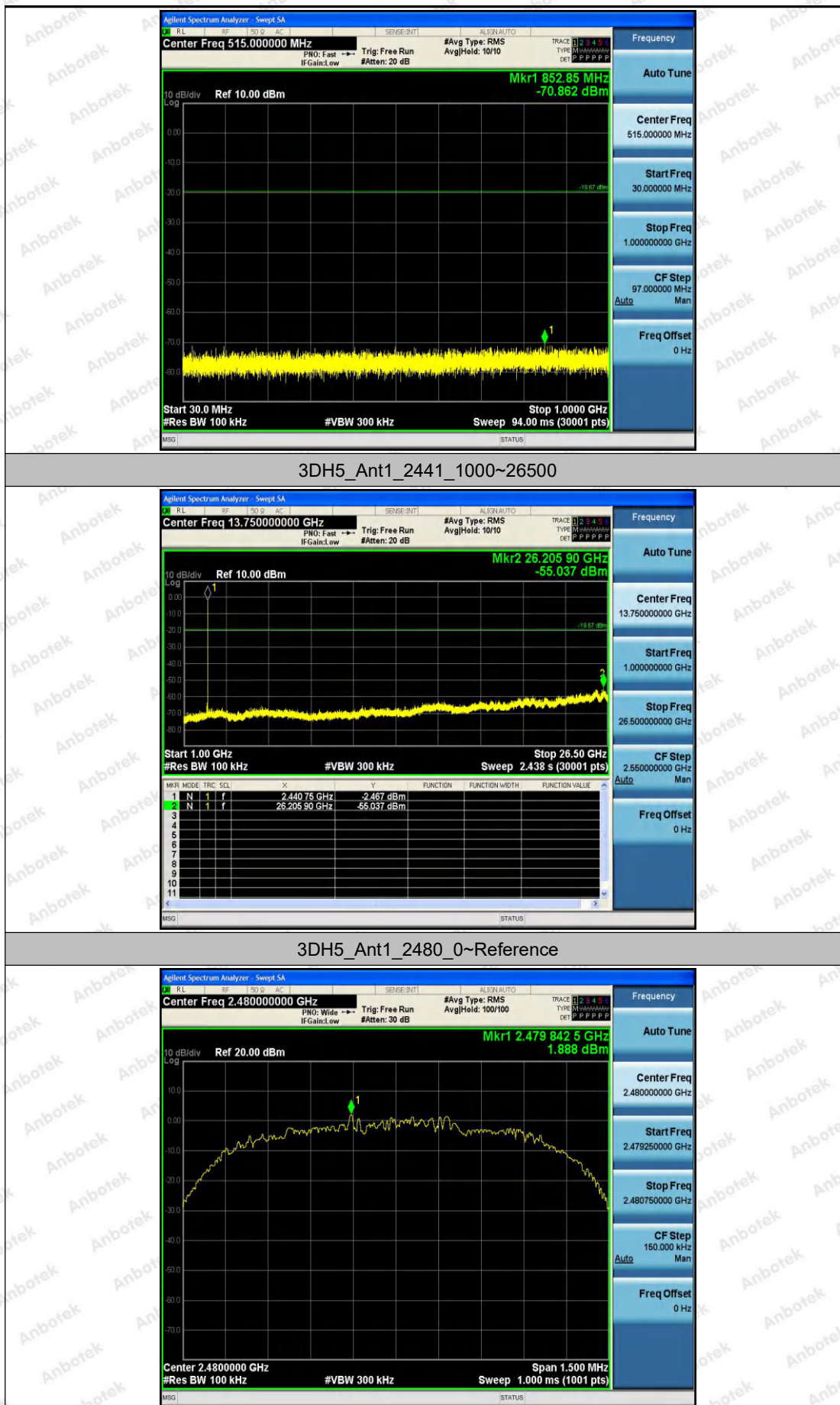
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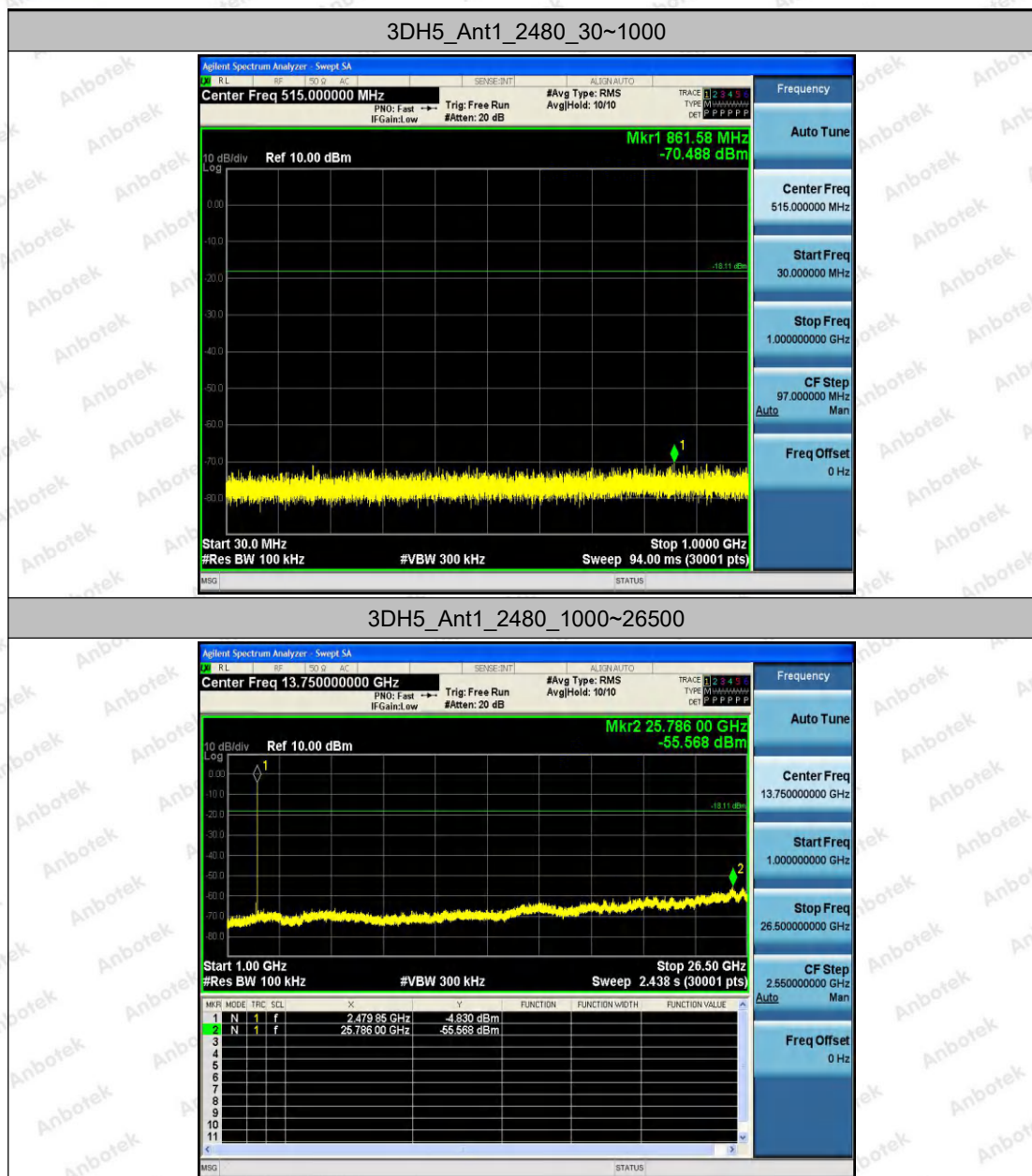


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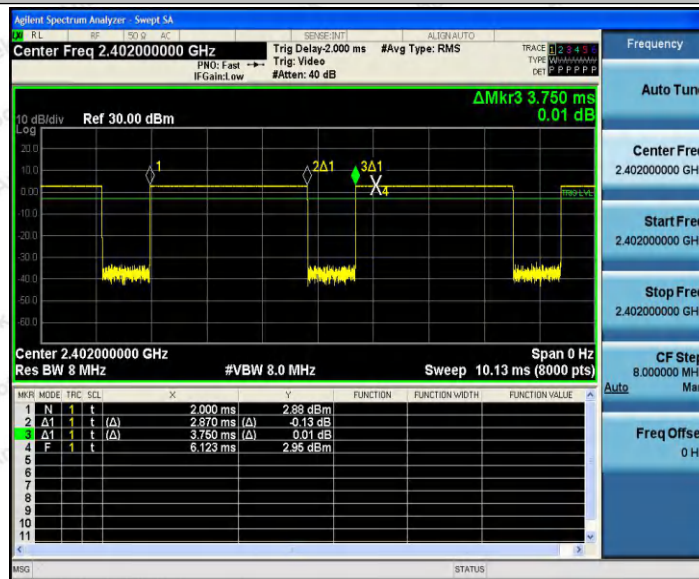
Appendix I: Duty Cycle

Test Result

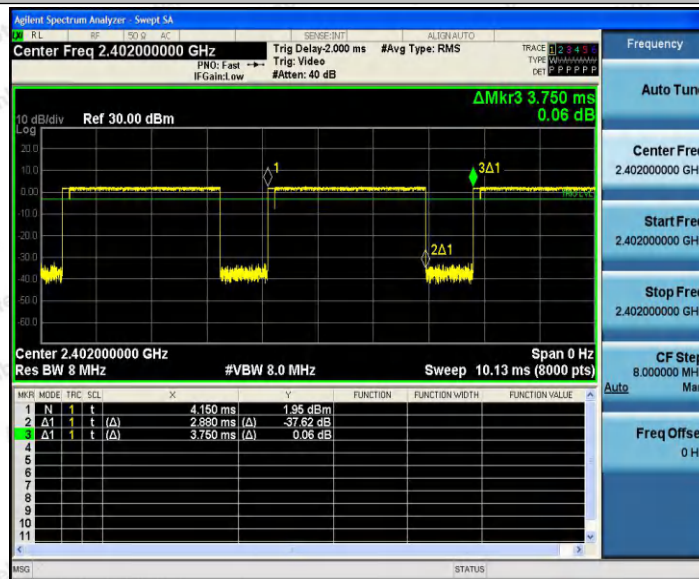
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.76	0.768 6	76.86	1.14	---	PASS

Test Graphs

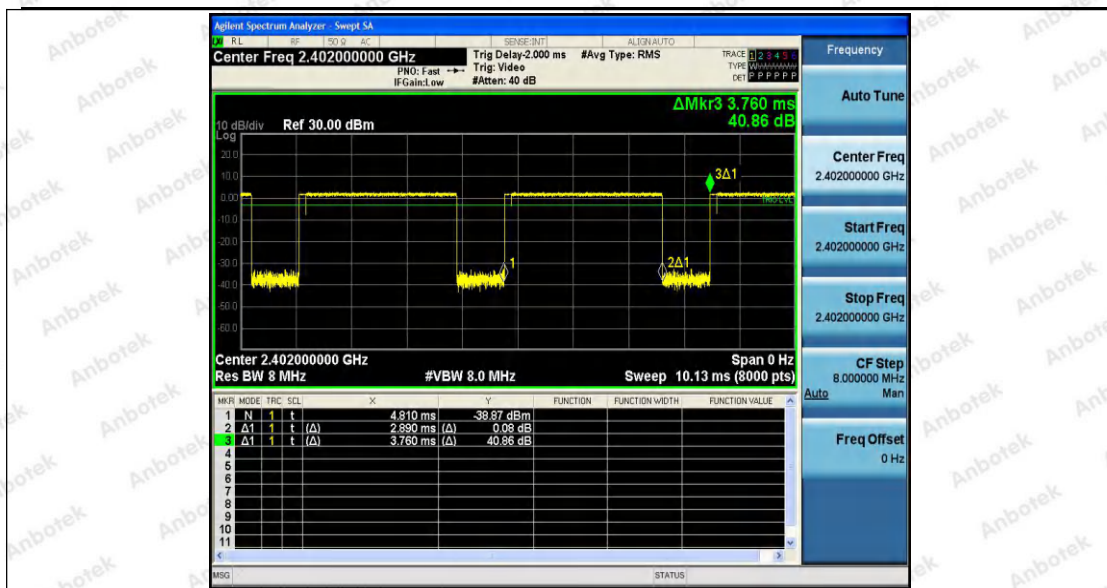
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---