

Appendix Test Data

Report No.:	18220WC20016301	Test Sample No.:	1-2-2
Start Test Date:	2022.2.14	Finish Test Date:	2022.2.22
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56.5 %
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	0.951	2401.541	2402.492	---	PASS
		2441	0.945	2440.541	2441.486	---	PASS
		2480	0.945	2479.541	2480.486	---	PASS
2DH5	Ant1	2402	1.320	2401.343	2402.663	---	PASS
		2441	1.320	2440.340	2441.660	---	PASS
		2480	1.344	2479.334	2480.678	---	PASS
3DH5	Ant1	2402	1.278	2401.352	2402.630	---	PASS
		2441	1.296	2440.352	2441.648	---	PASS
		2480	1.269	2479.358	2480.627	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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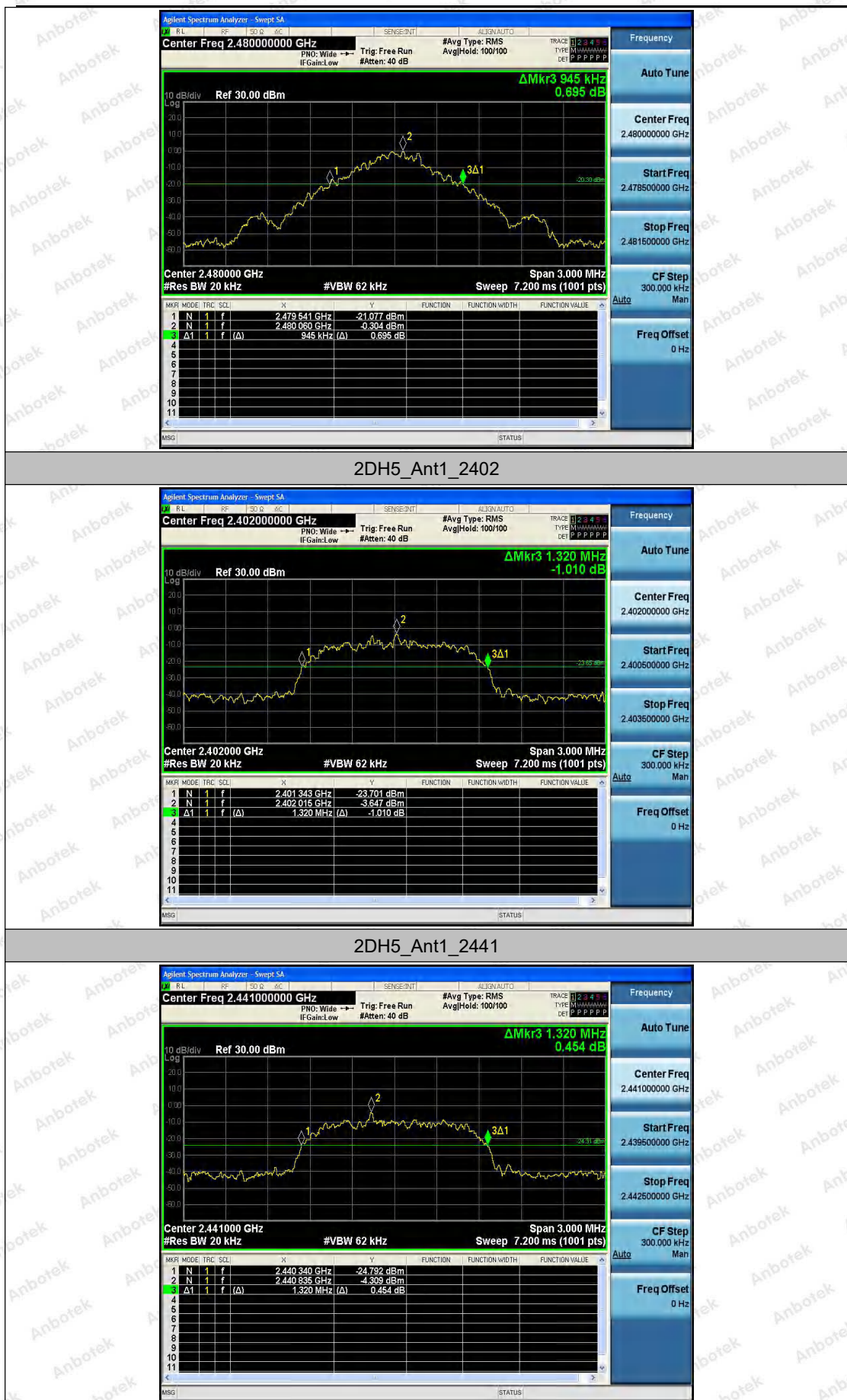
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2DH5_Ant1_2480



3DH5_Ant1_2402



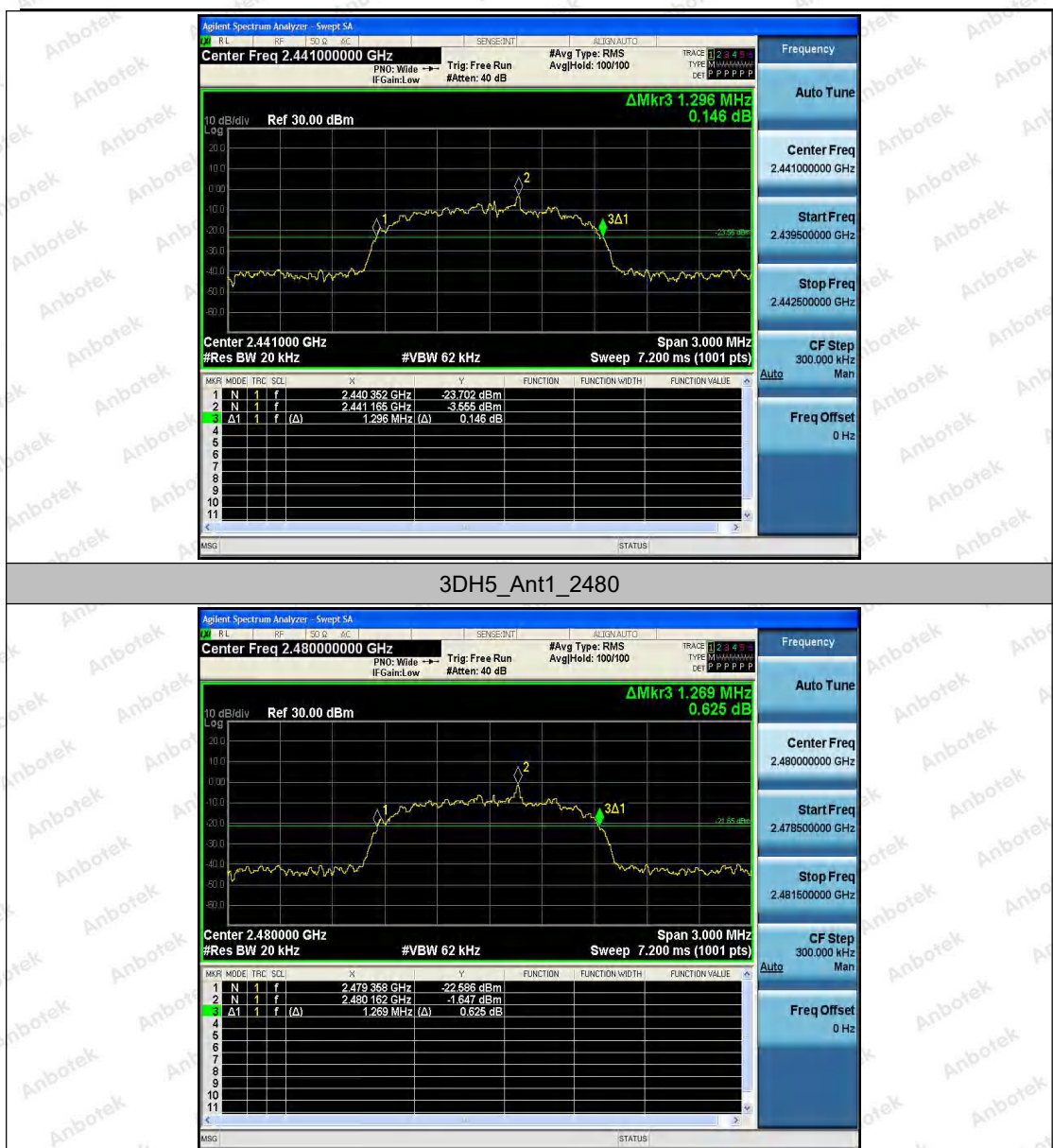
3DH5_Ant1_2441

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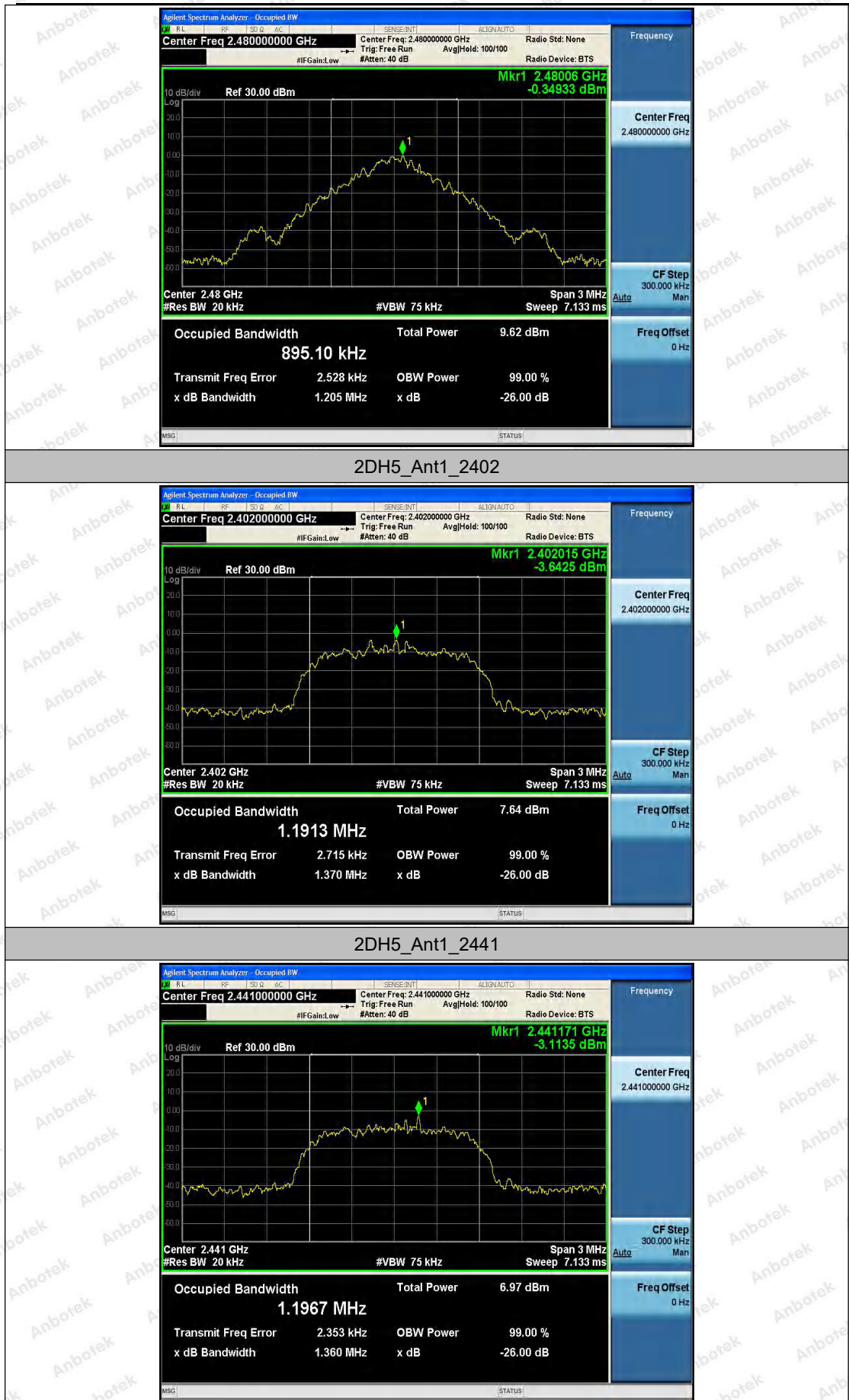
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88181	2401.562	2402.444	---	PASS
		2441	0.89355	2440.558	2441.451	---	PASS
		2480	0.89510	2479.555	2480.450	---	PASS
2DH5	Ant1	2402	1.1913	2401.407	2402.598	---	PASS
		2441	1.1967	2440.404	2441.601	---	PASS
		2480	1.1949	2479.405	2480.600	---	PASS
3DH5	Ant1	2402	1.2048	2401.392	2402.597	---	PASS
		2441	1.2094	2440.389	2441.598	---	PASS
		2480	1.2045	2479.393	2480.598	---	PASS

Test Graphs





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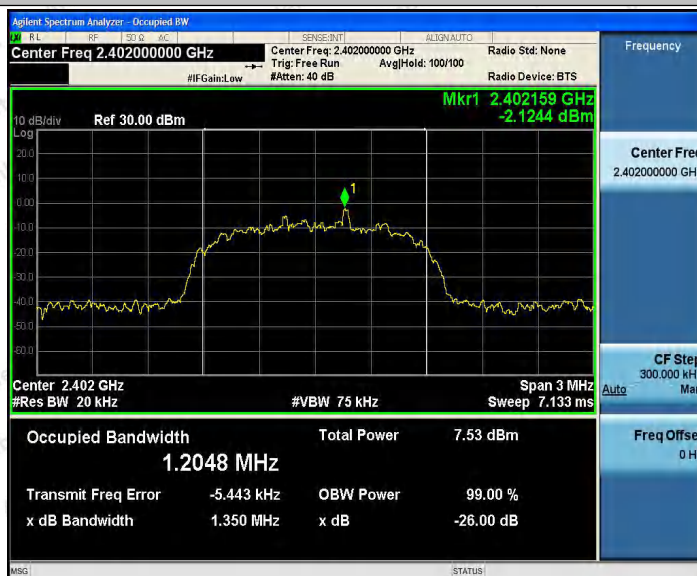
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2DH5_Ant1_2480



3DH5_Ant1_2402



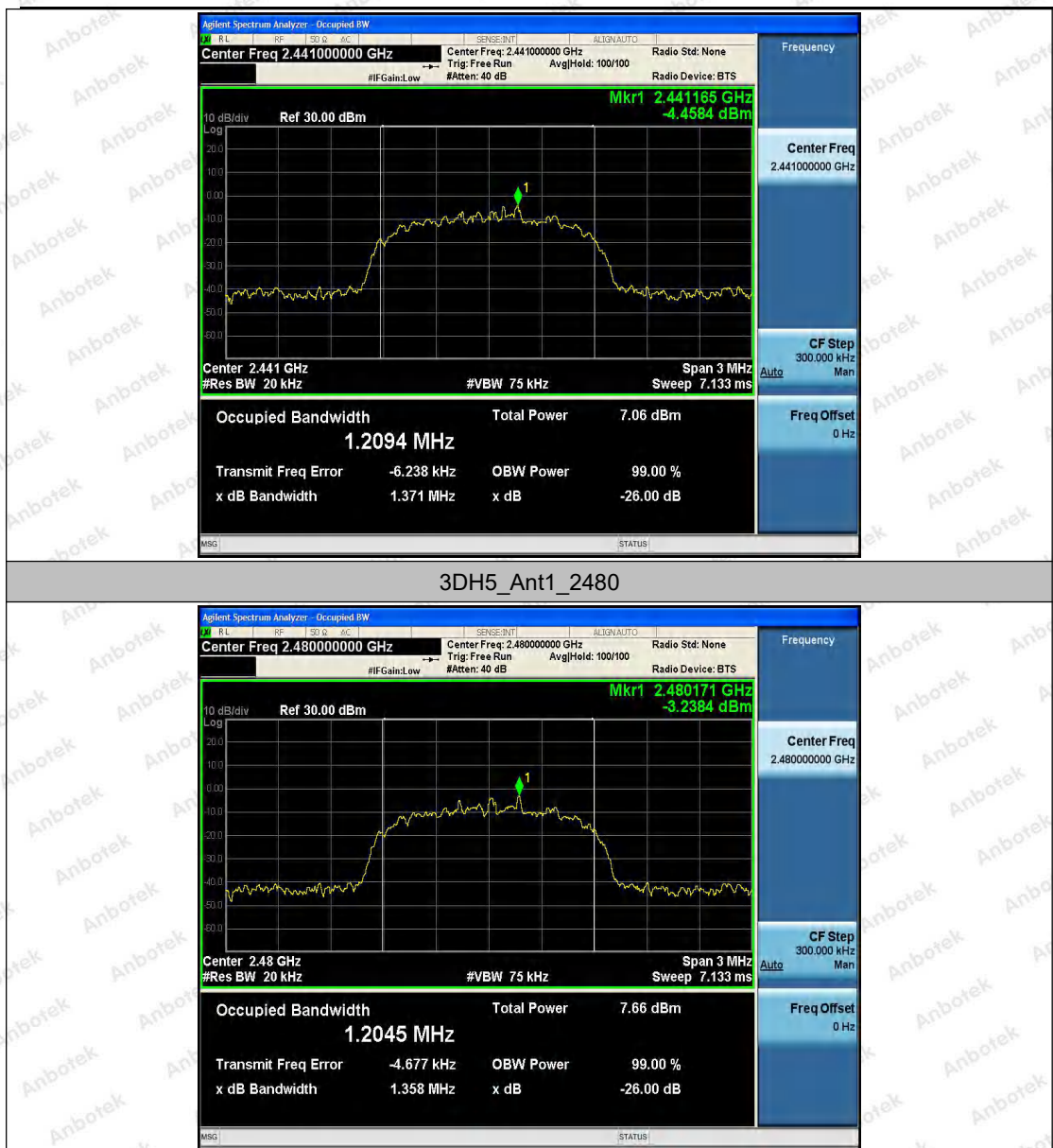
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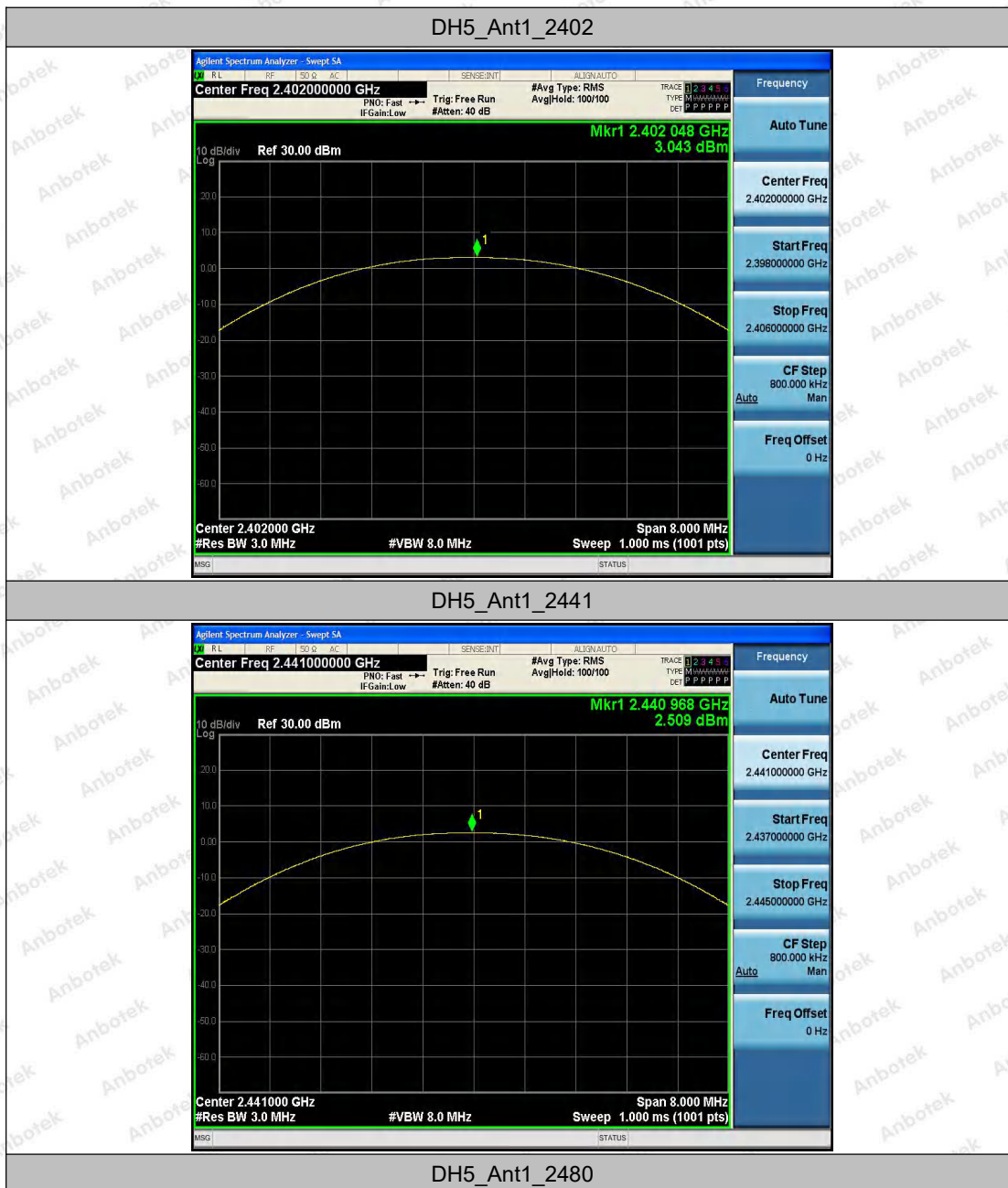
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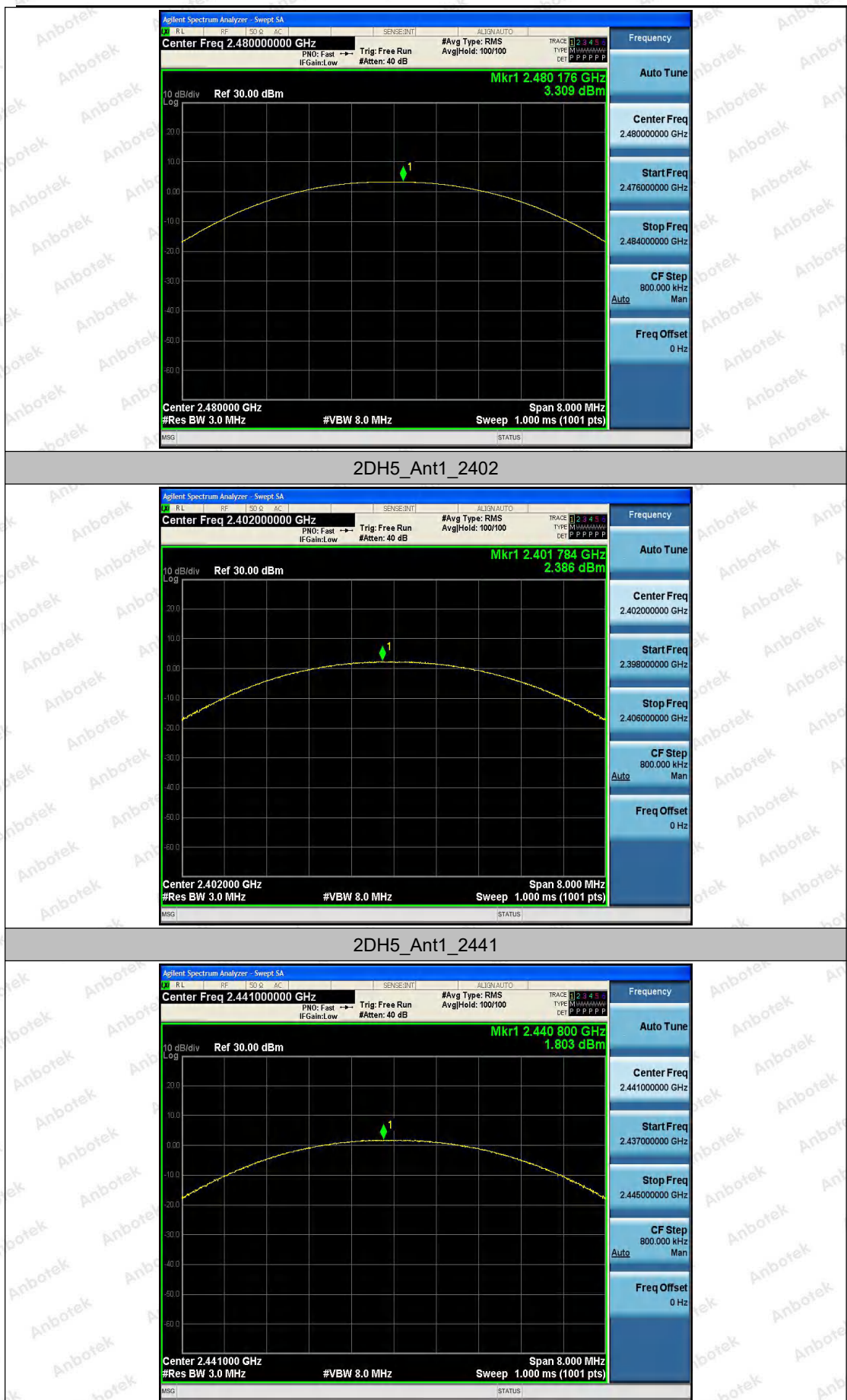
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.04	≤20.97	PASS
		2441	2.51	≤20.97	PASS
		2480	3.31	≤20.97	PASS
2DH5	Ant1	2402	2.39	≤20.97	PASS
		2441	1.8	≤20.97	PASS
		2480	2.59	≤20.97	PASS
3DH5	Ant1	2402	2.45	≤20.97	PASS
		2441	1.97	≤20.97	PASS
		2480	2.76	≤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	0.814	≥ 0.634	PASS
2DH5	Ant1	Hop	1.024	≥ 0.896	PASS
3DH5	Ant1	Hop	1.03	≥ 0.864	PASS

Test Graphs

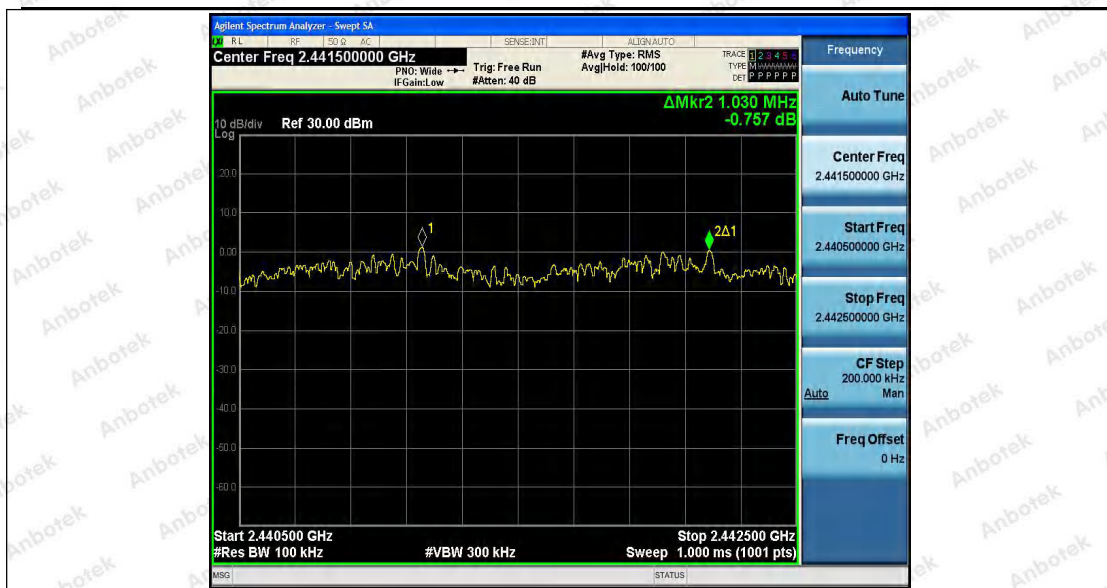


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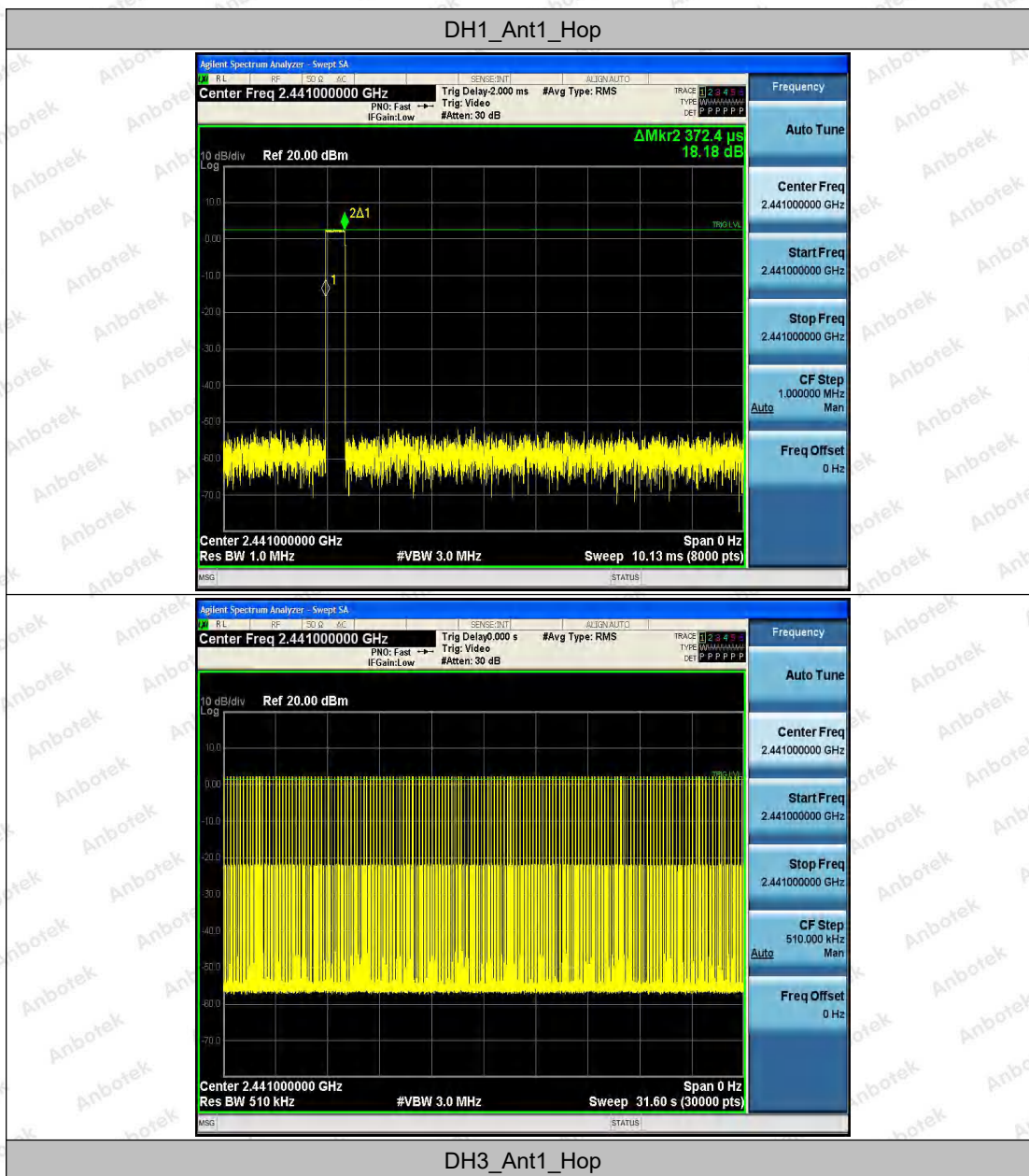
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	312	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	105	0.302	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.88	116	0.334	≤0.4	PASS

Test Graphs



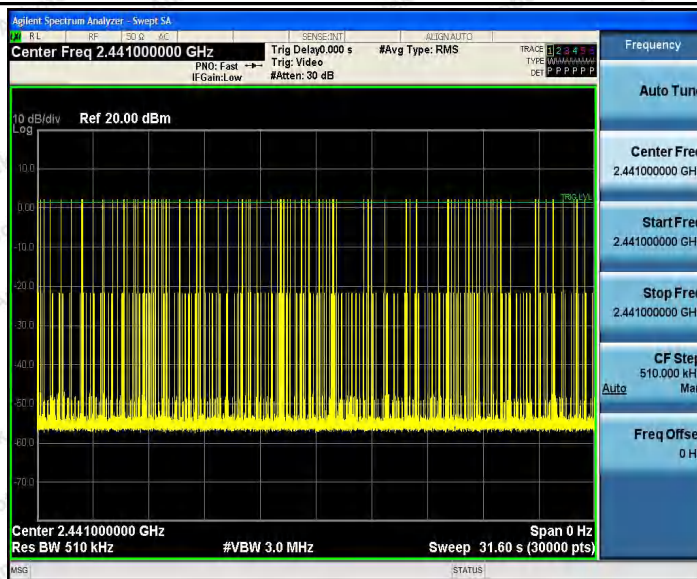


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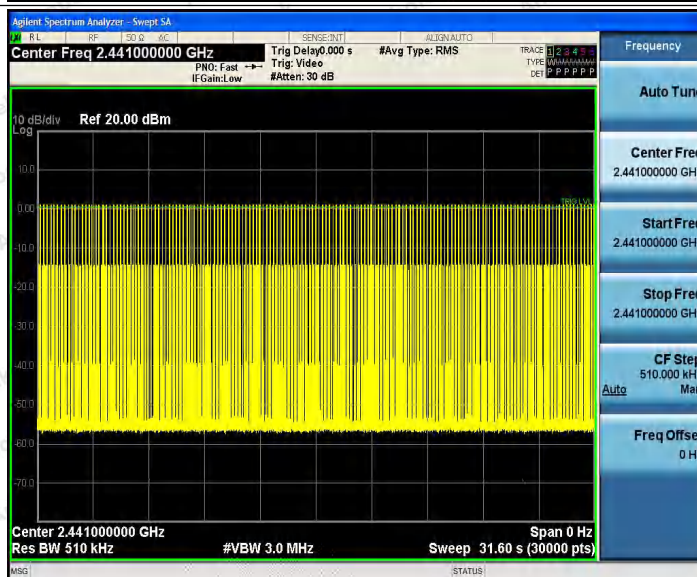
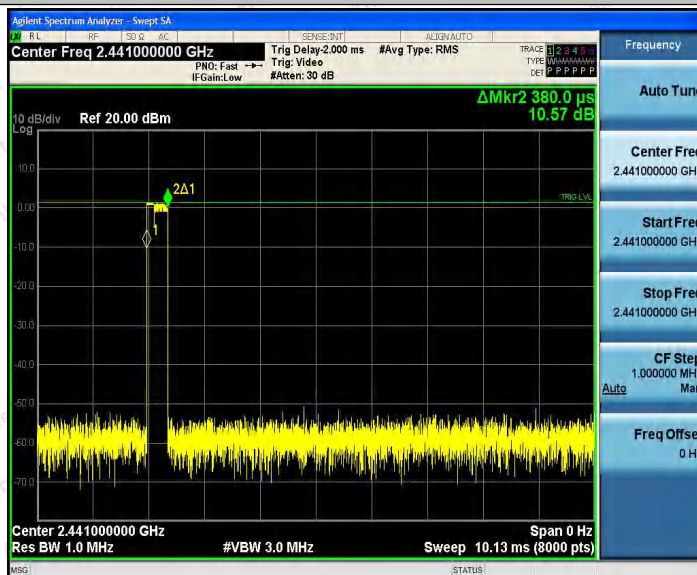
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2DH1_Ant1_Hop



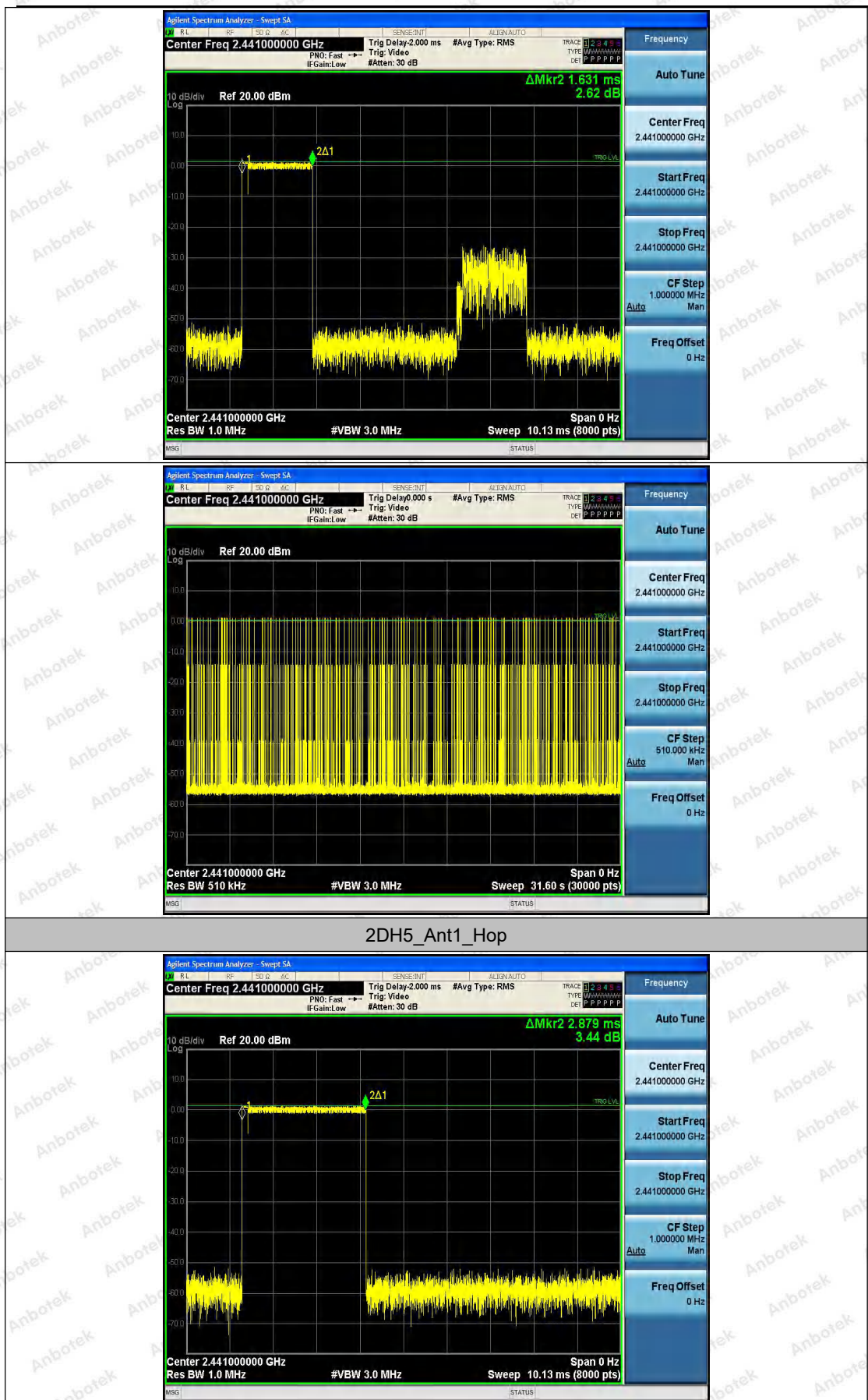
2DH3_Ant1_Hop

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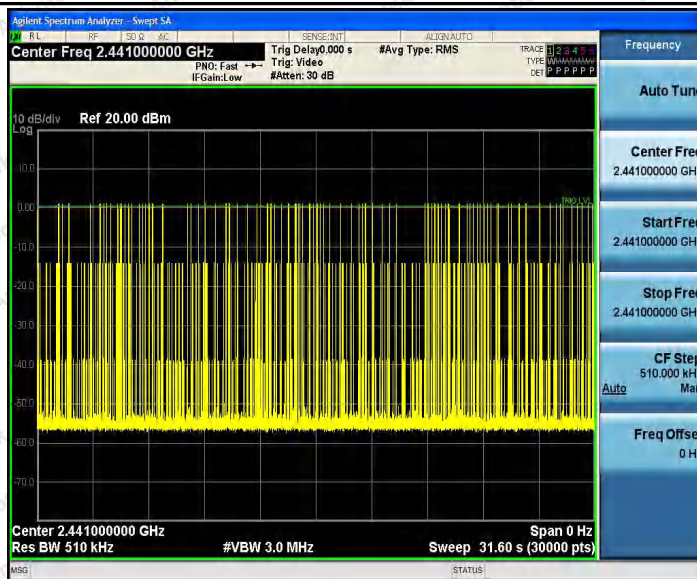


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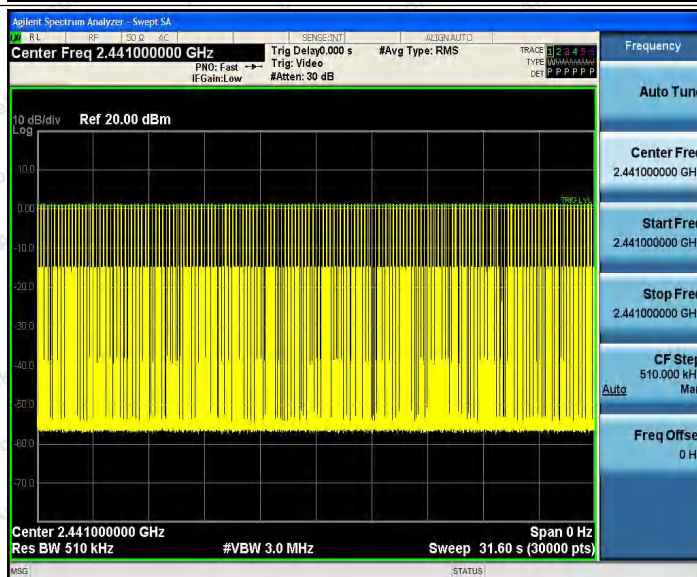
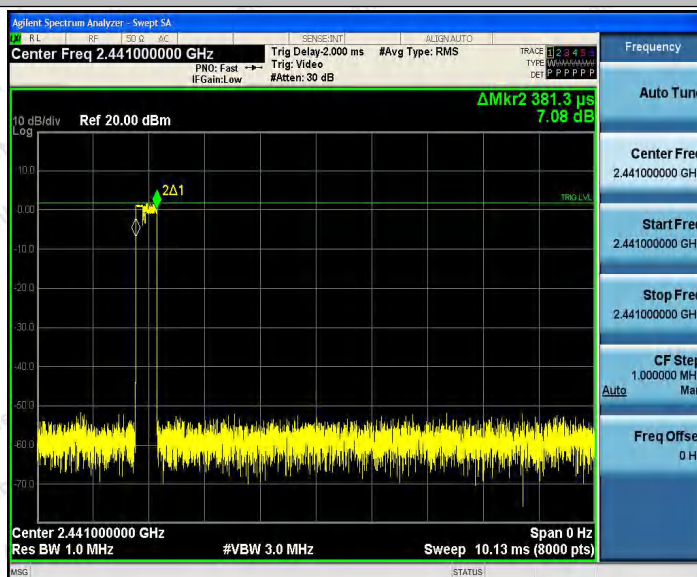
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3DH1_Ant1_Hop



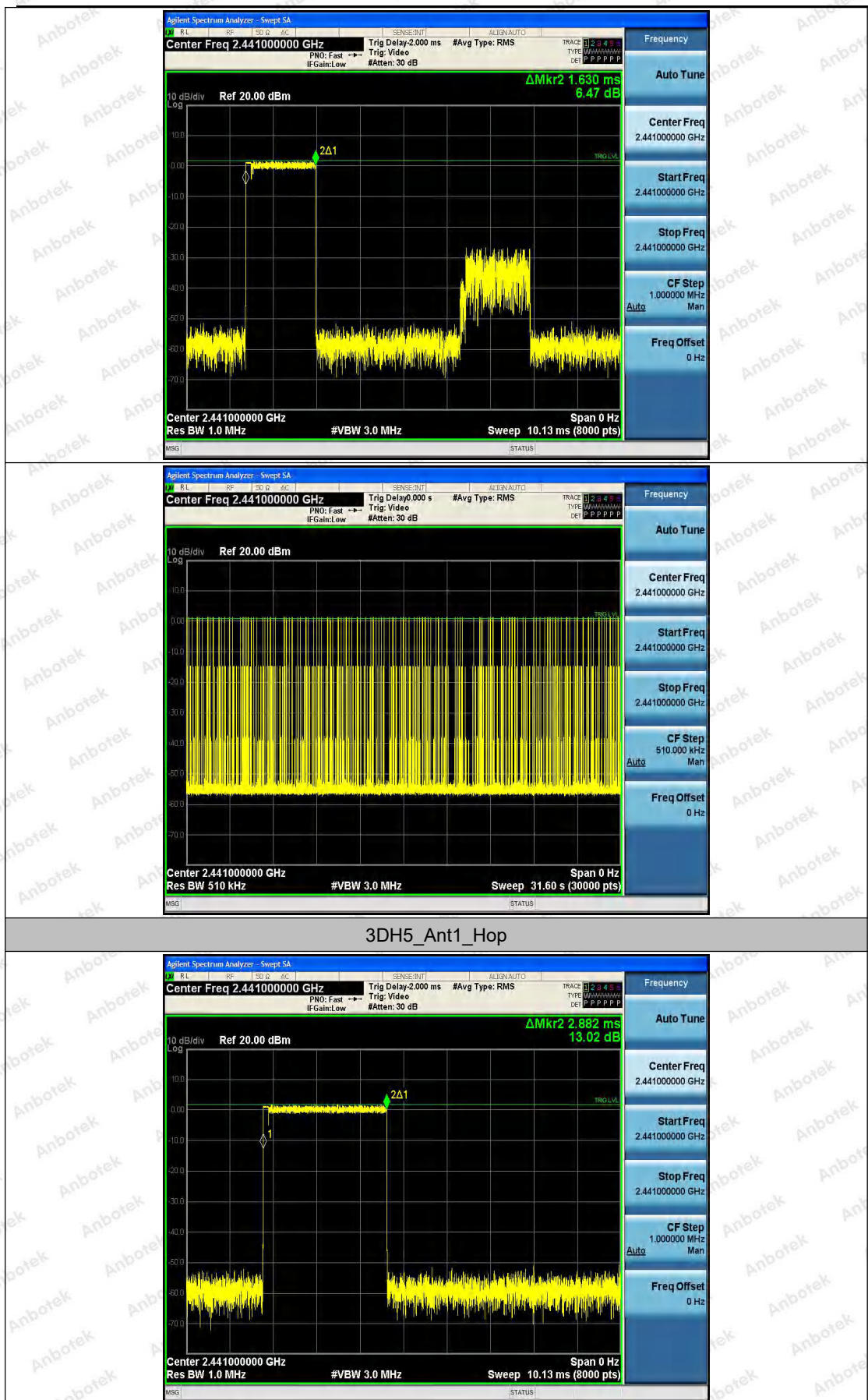
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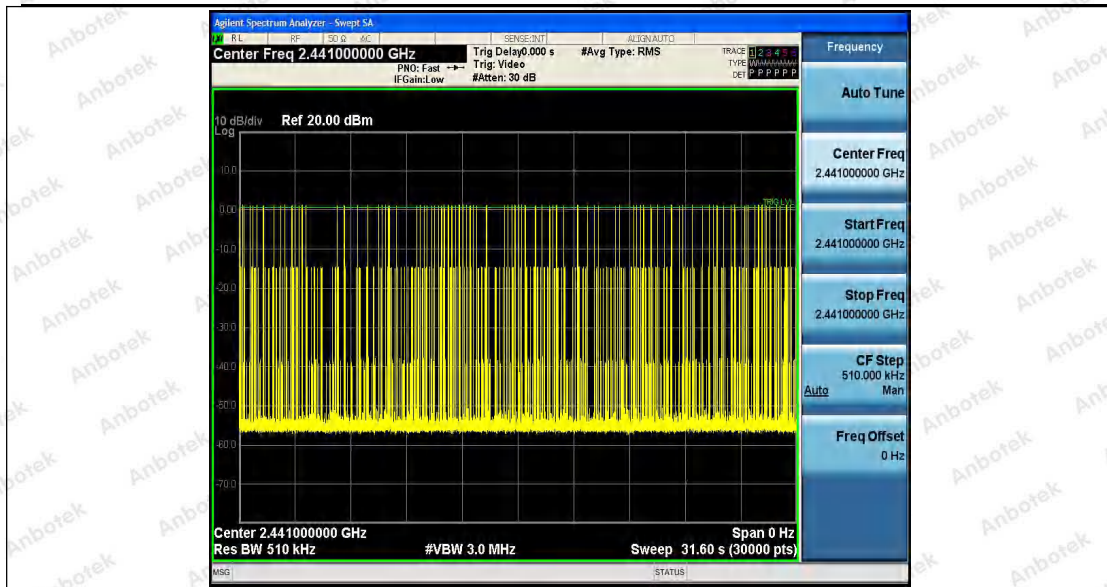
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3DH5_Ant1_Hop



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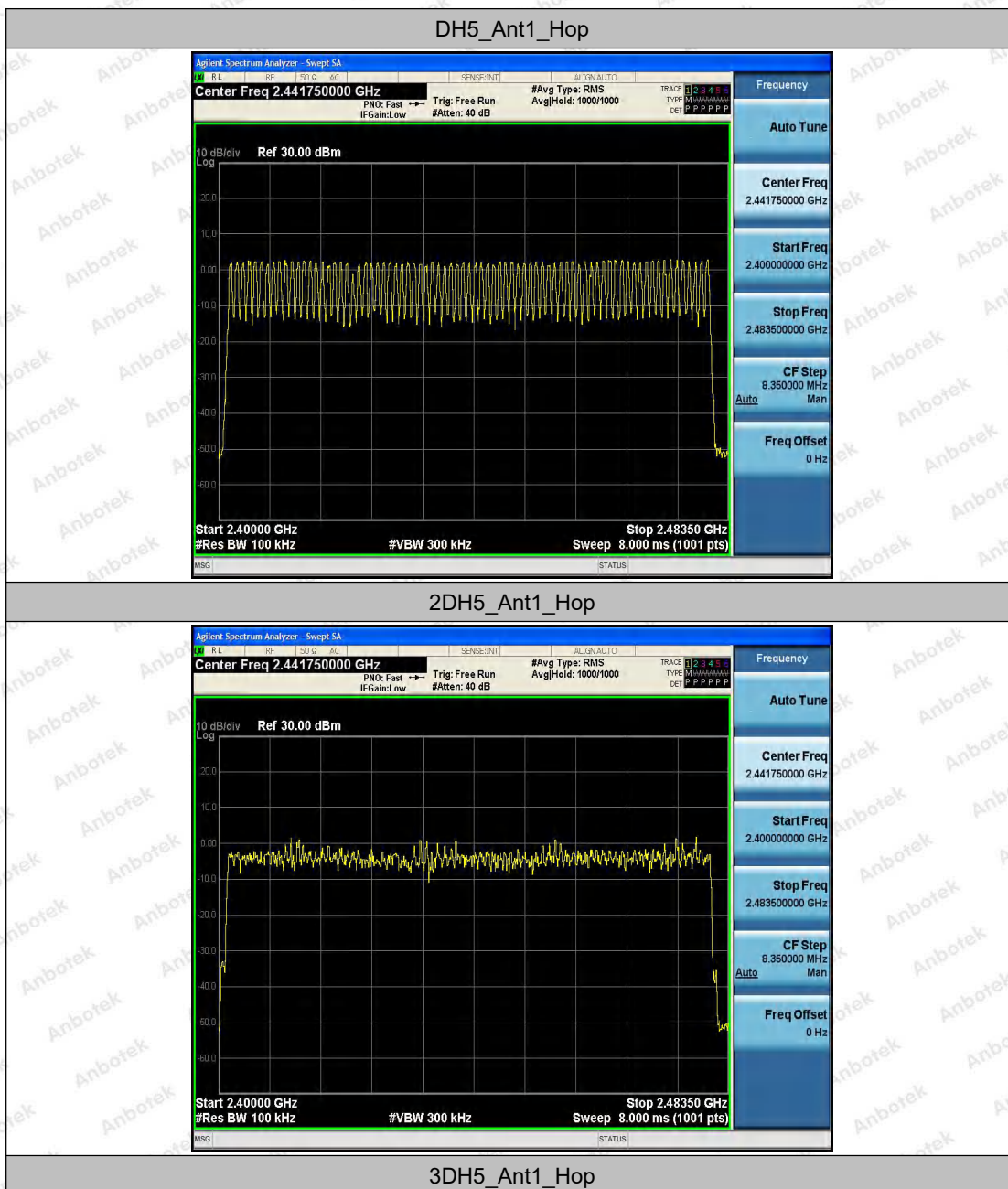
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Appendix F: Number of hopping channels

Test Result

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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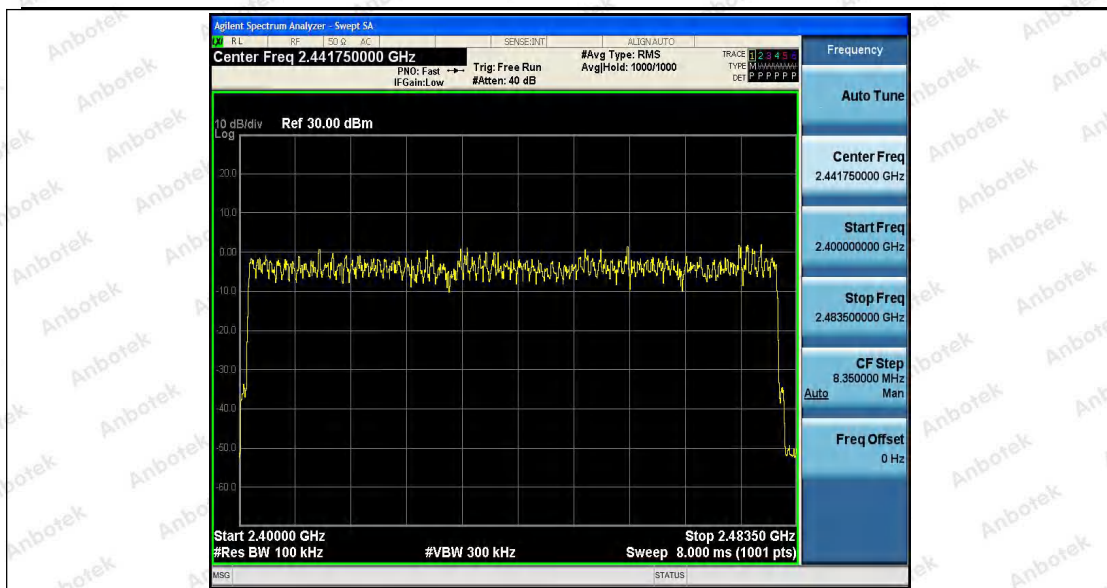
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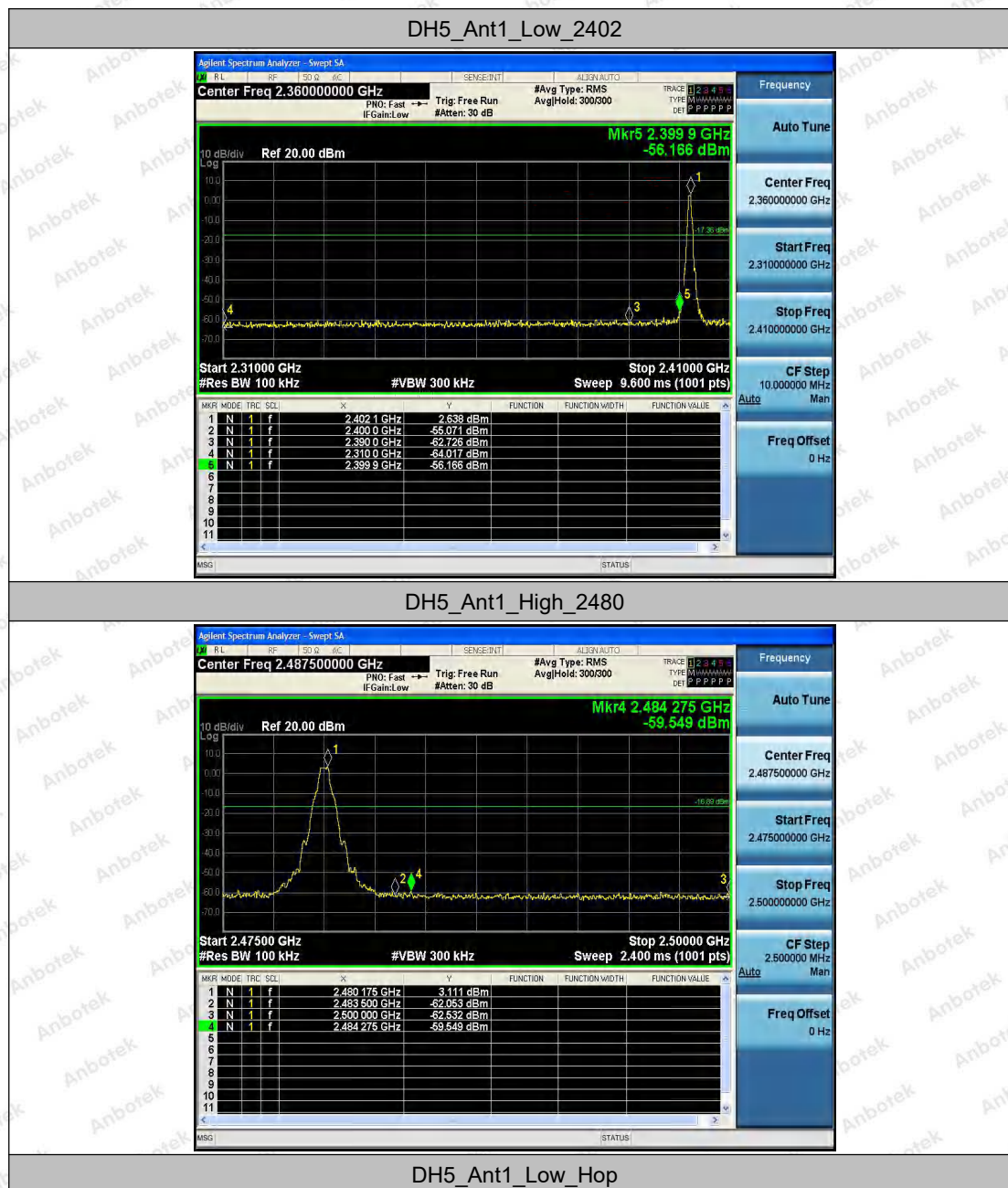
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Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.64	-56.17	≤-17.36	PASS
		High	2480	3.11	-59.55	≤-16.89	PASS
		Low	Hop	2.36	-59.8	≤-17.64	PASS
		High	Hop	2.17	-61.81	≤-17.83	PASS
2DH5	Ant1	Low	2402	1.07	-55.18	≤-18.93	PASS
		High	2480	1.50	-58.51	≤-18.5	PASS
		Low	Hop	0.48	-59.81	≤-19.53	PASS
		High	Hop	1.33	-61.78	≤-18.67	PASS
3DH5	Ant1	Low	2402	1.57	-54.78	≤-18.43	PASS
		High	2480	1.42	-58.43	≤-18.58	PASS
		Low	Hop	1.55	-59.23	≤-18.45	PASS
		High	Hop	1.83	-62.32	≤-18.17	PASS

Test Graphs

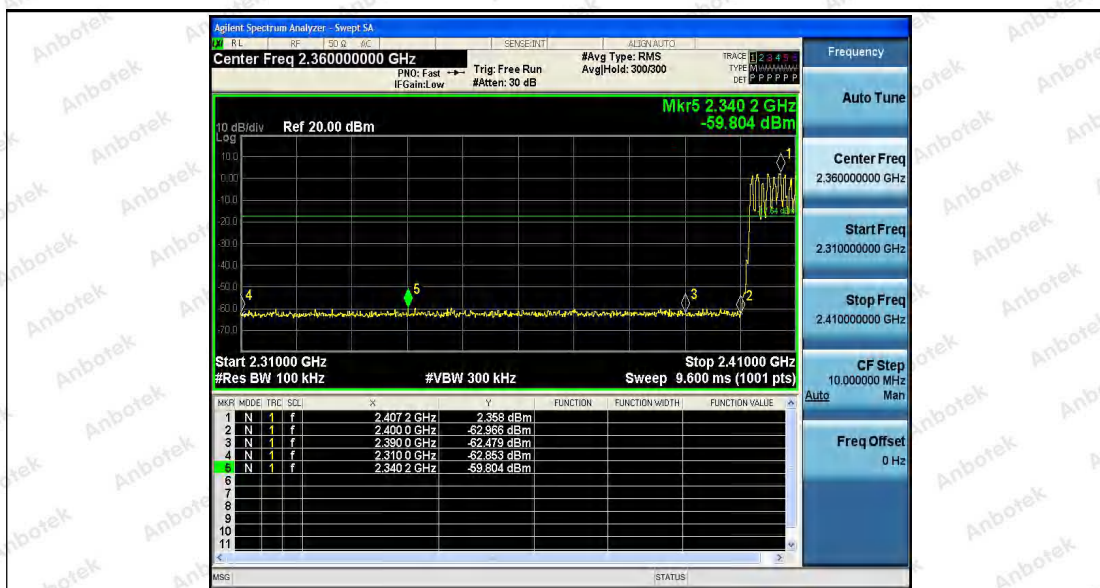


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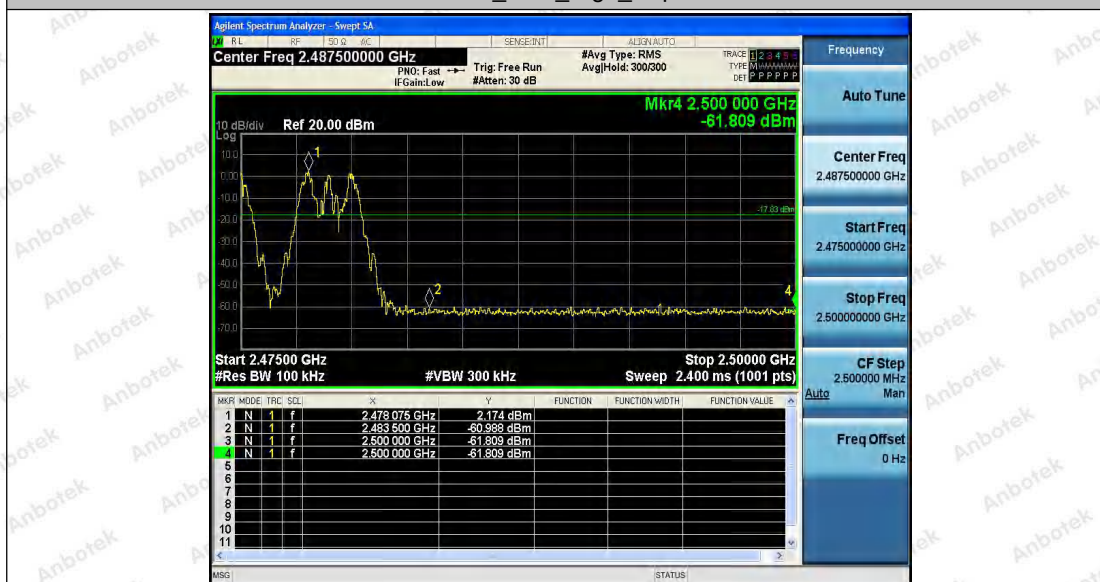
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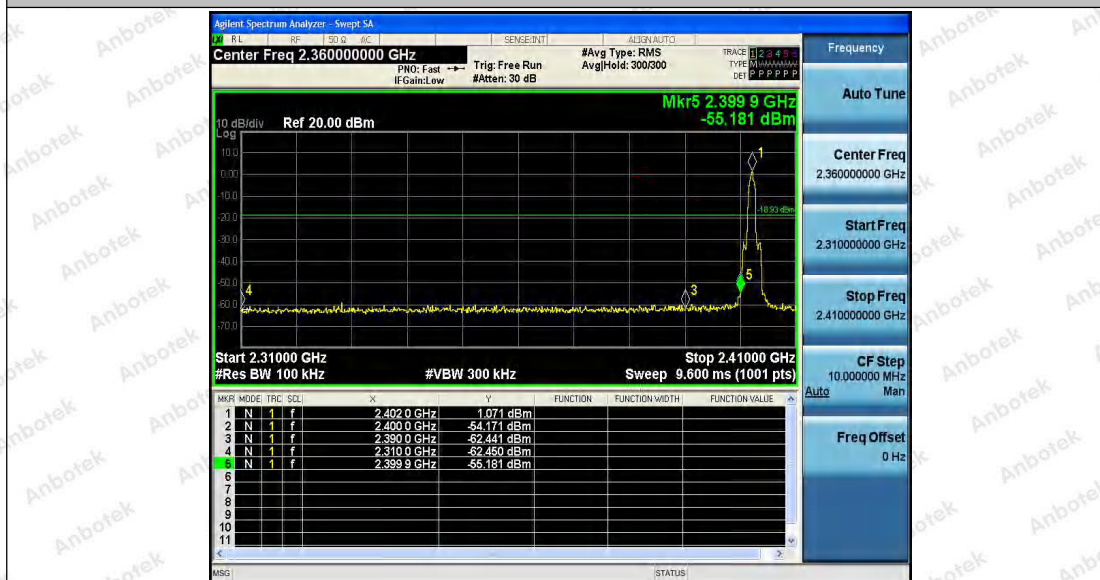
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



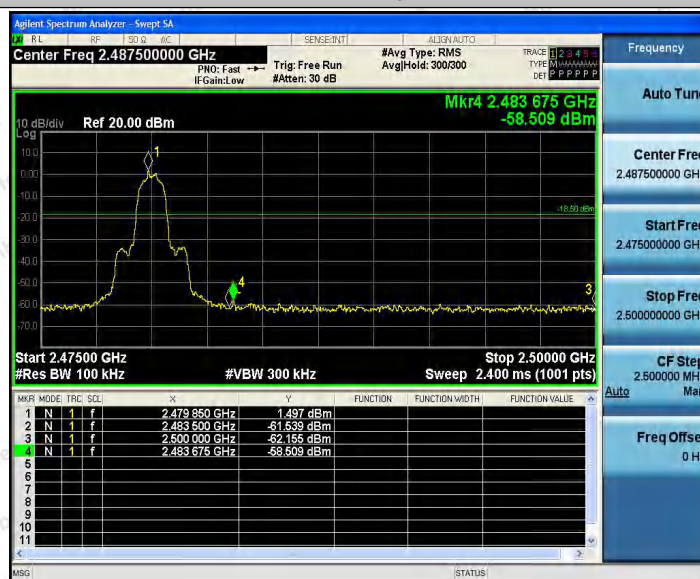
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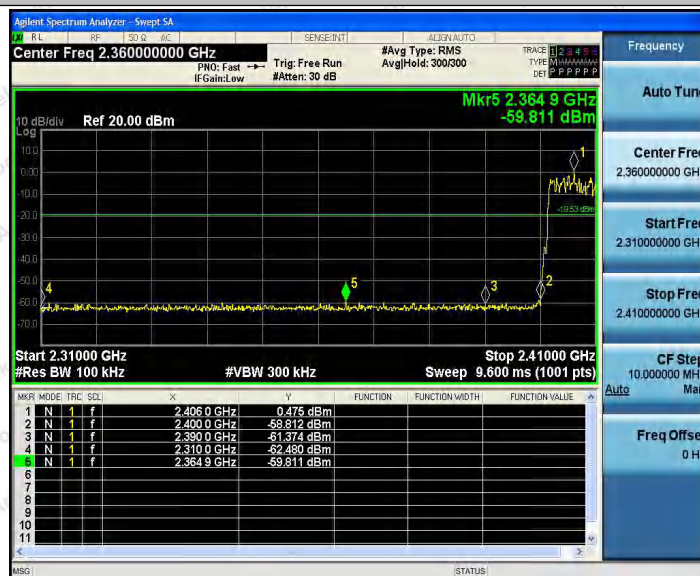
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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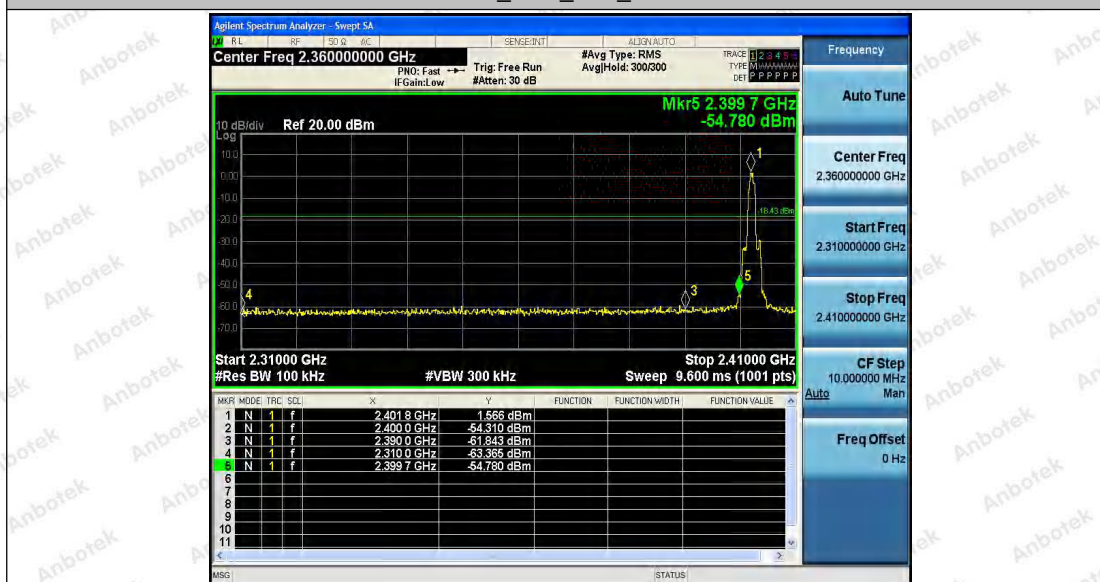
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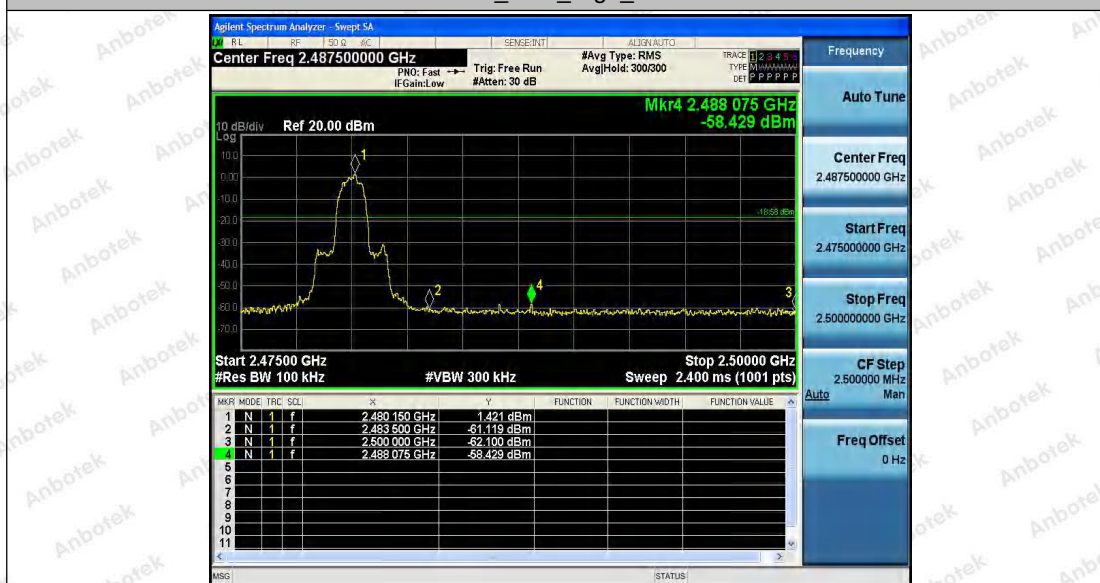
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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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	2.73	2.73	---	PASS
			30~1000	2.73	-69.89	≤-17.27	PASS
			1000~26500	2.73	-54.63	≤-17.27	PASS
		2441	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-70.52	≤-17.75	PASS
			1000~26500	2.25	-55.38	≤-17.75	PASS
		2480	Reference	2.83	2.83	---	PASS
			30~1000	2.83	-71.96	≤-17.17	PASS
			1000~26500	2.83	-55.88	≤-17.17	PASS
2DH5	Ant1	2402	Reference	1.40	1.40	---	PASS
			30~1000	1.40	-70.69	≤-18.6	PASS
			1000~26500	1.40	-55.59	≤-18.6	PASS
		2441	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-69.28	≤-18.93	PASS
			1000~26500	1.07	-56.32	≤-18.93	PASS
		2480	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-70.92	≤-18.33	PASS
			1000~26500	1.67	-56.62	≤-18.33	PASS
3DH5	Ant1	2402	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-70.21	≤-19.26	PASS
			1000~26500	0.74	-55.9	≤-19.26	PASS
		2441	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-69.64	≤-18.97	PASS
			1000~26500	1.04	-54.68	≤-18.97	PASS
		2480	Reference	1.69	1.69	---	PASS
			30~1000	1.69	-70.7	≤-18.31	PASS
			1000~26500	1.69	-54.95	≤-18.31	PASS

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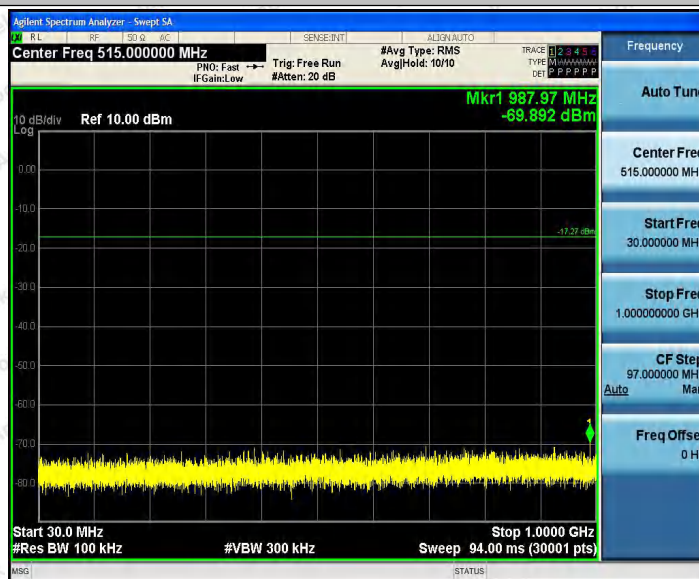
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Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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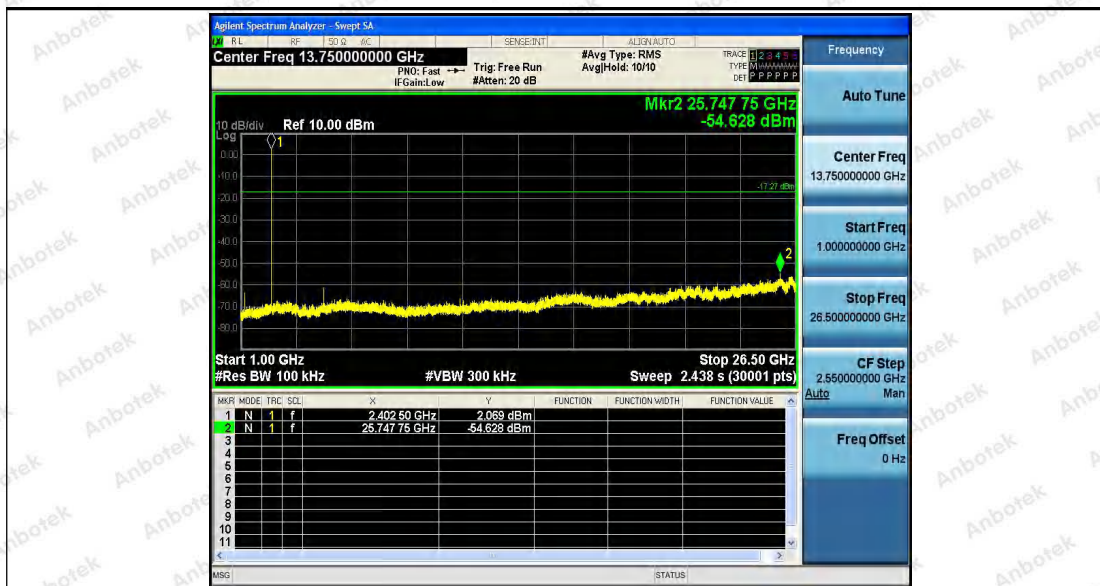
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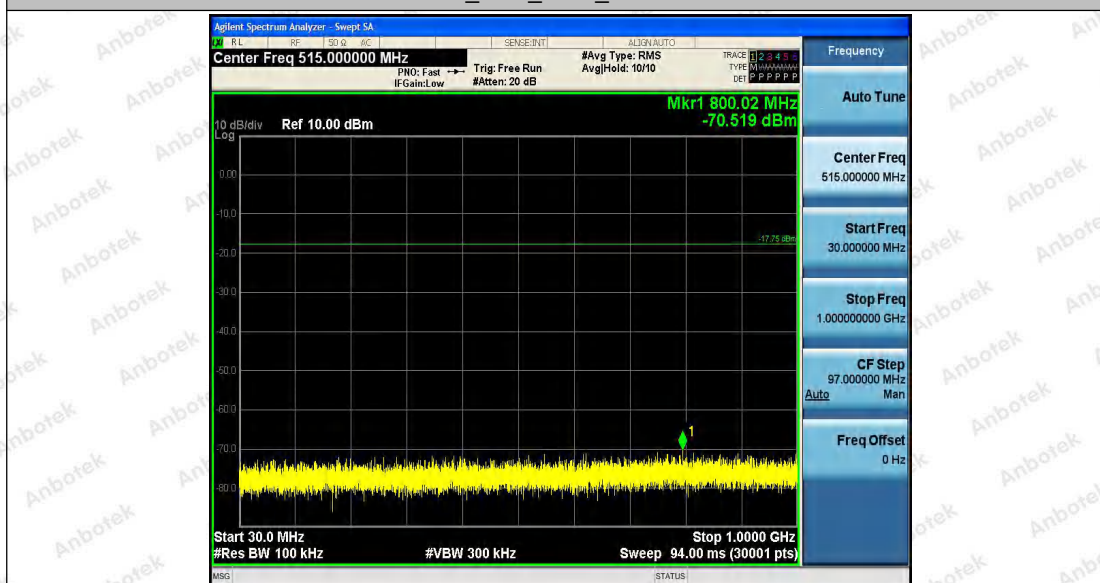
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



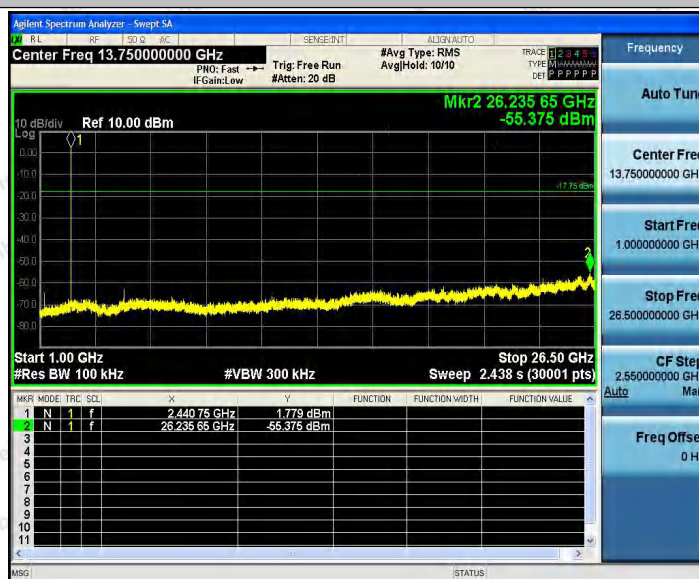
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



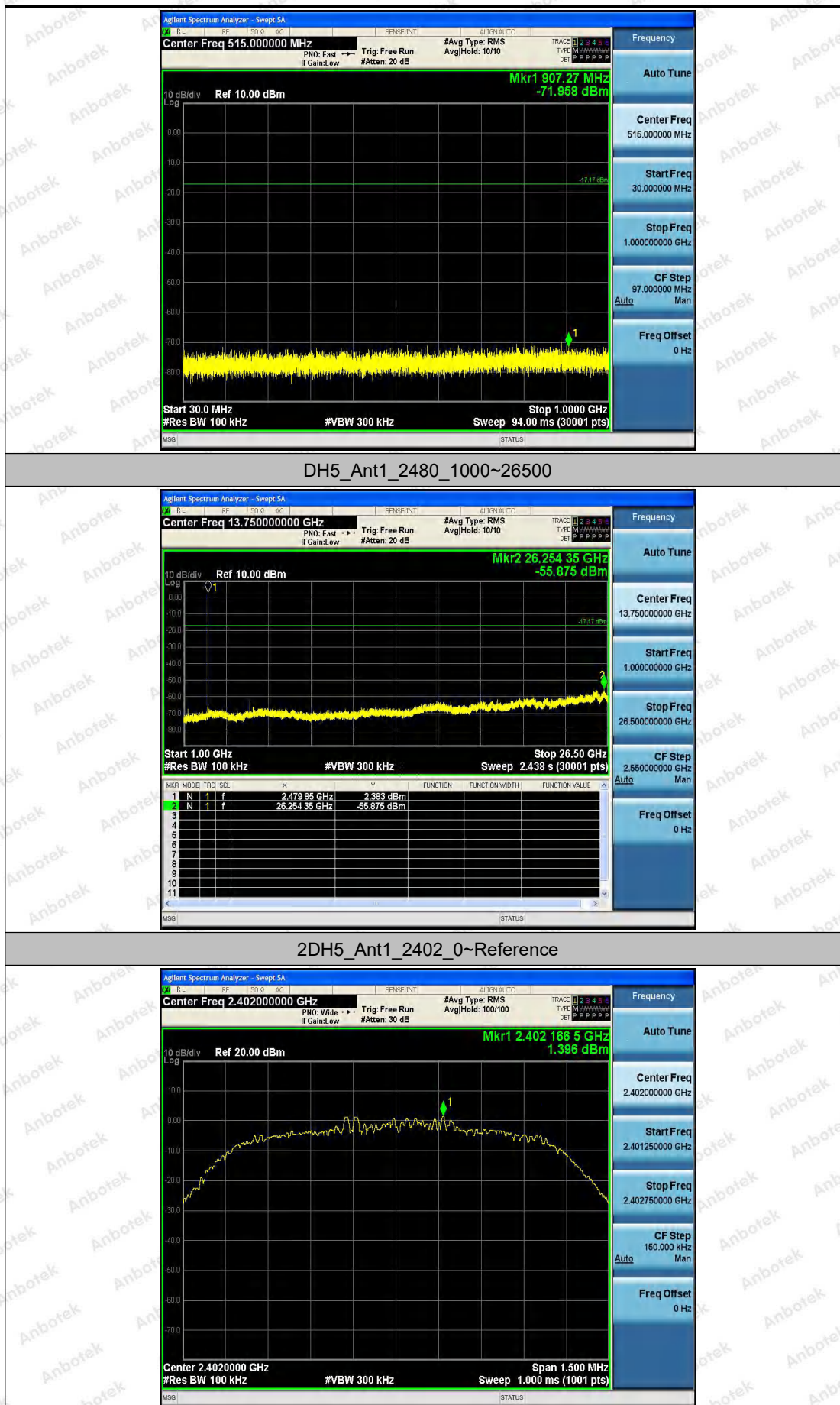
DH5_Ant1_2480_30~1000

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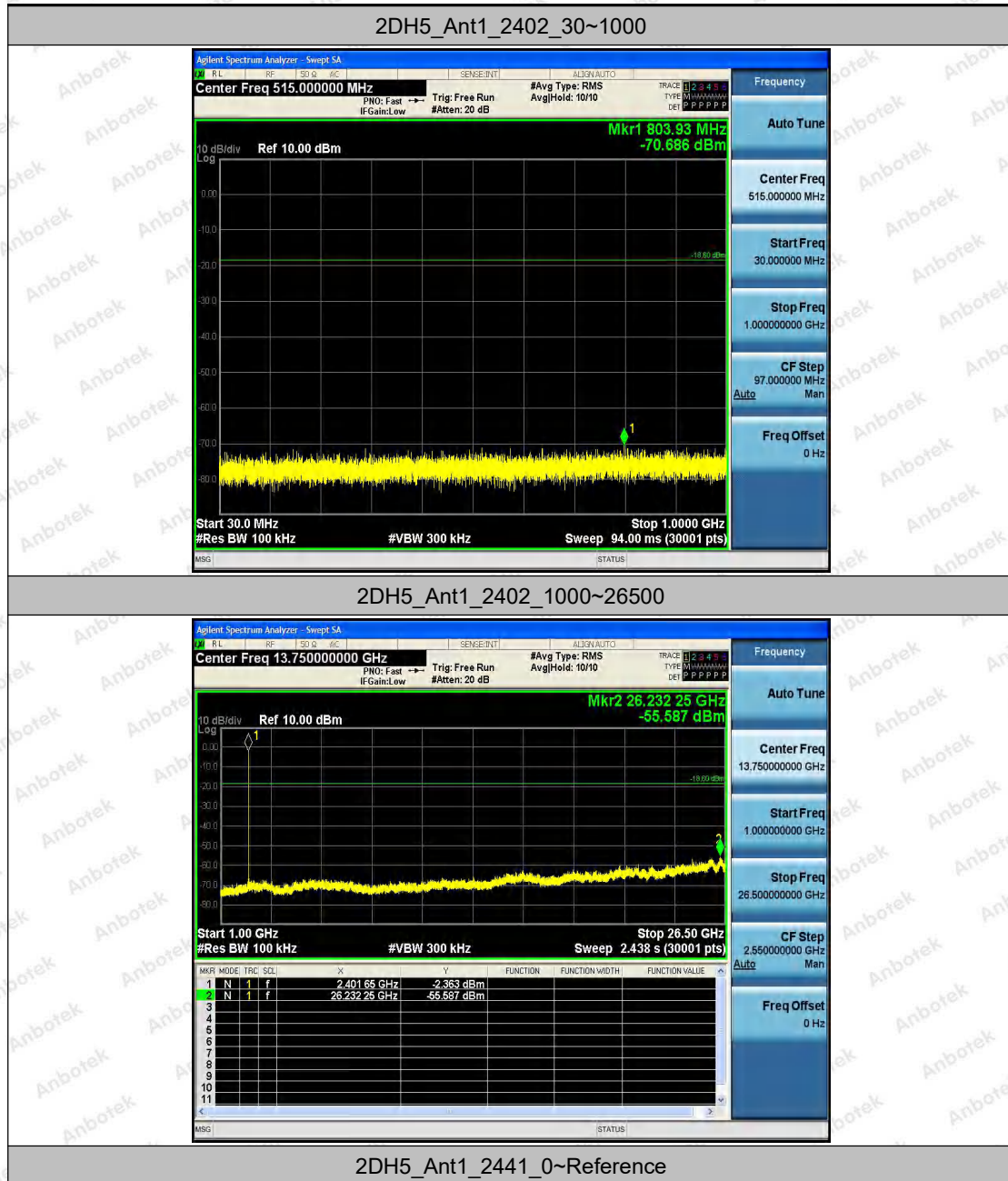


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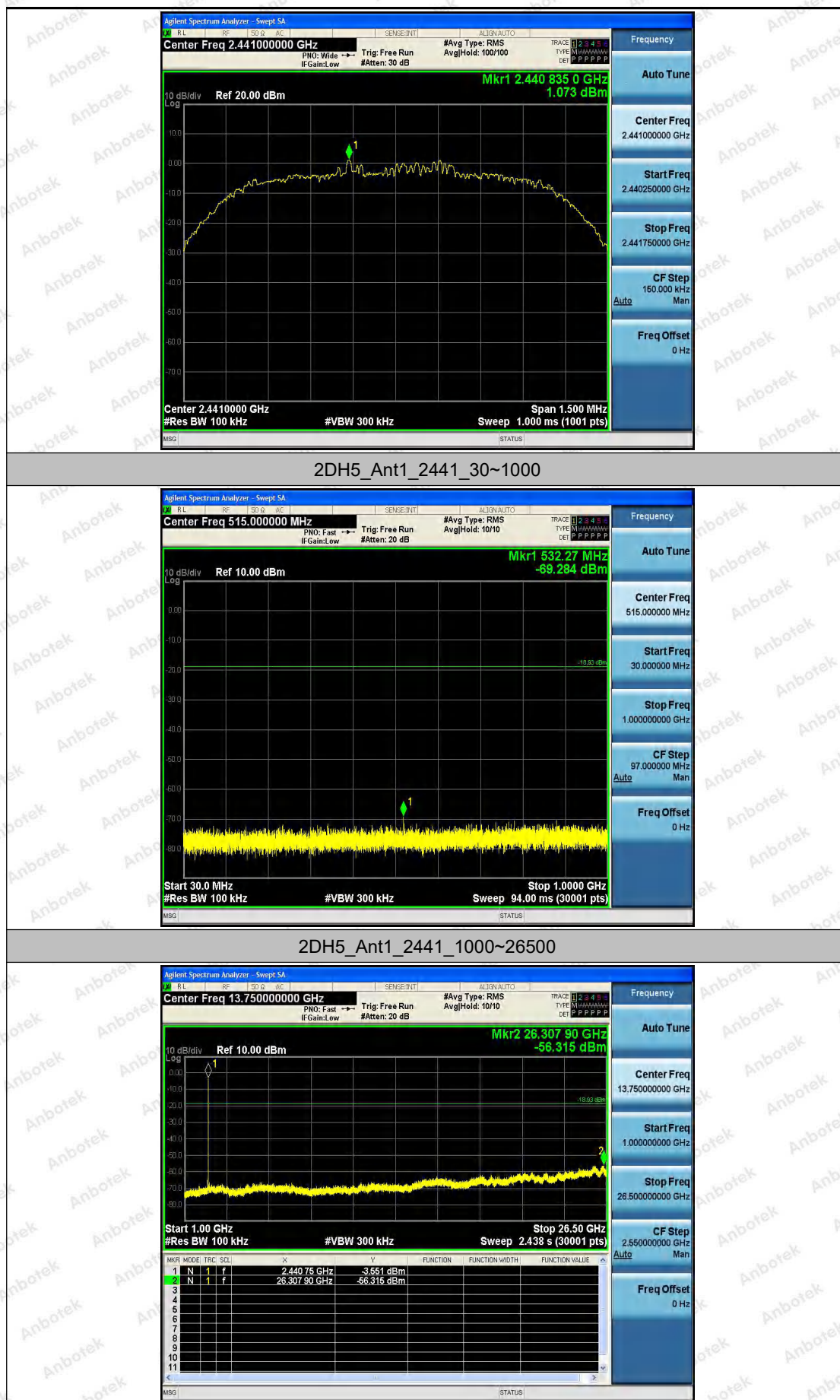


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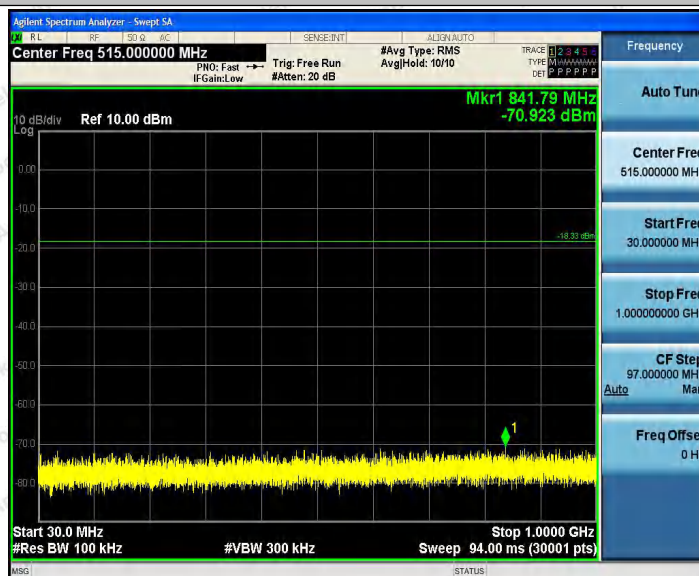
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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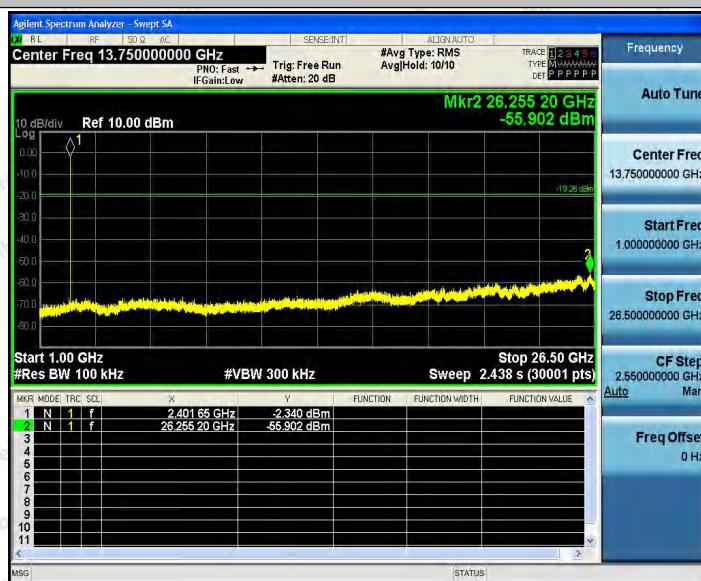
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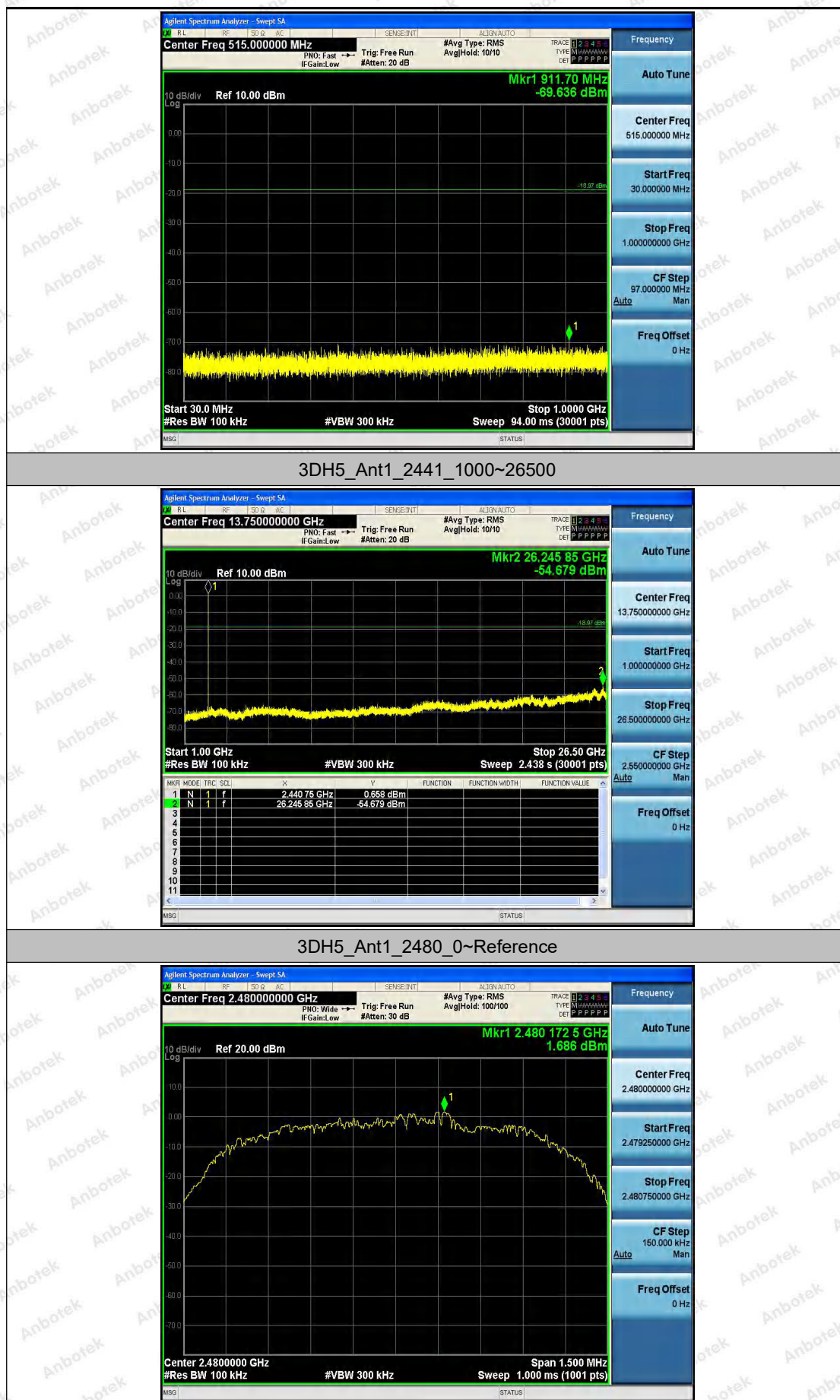
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

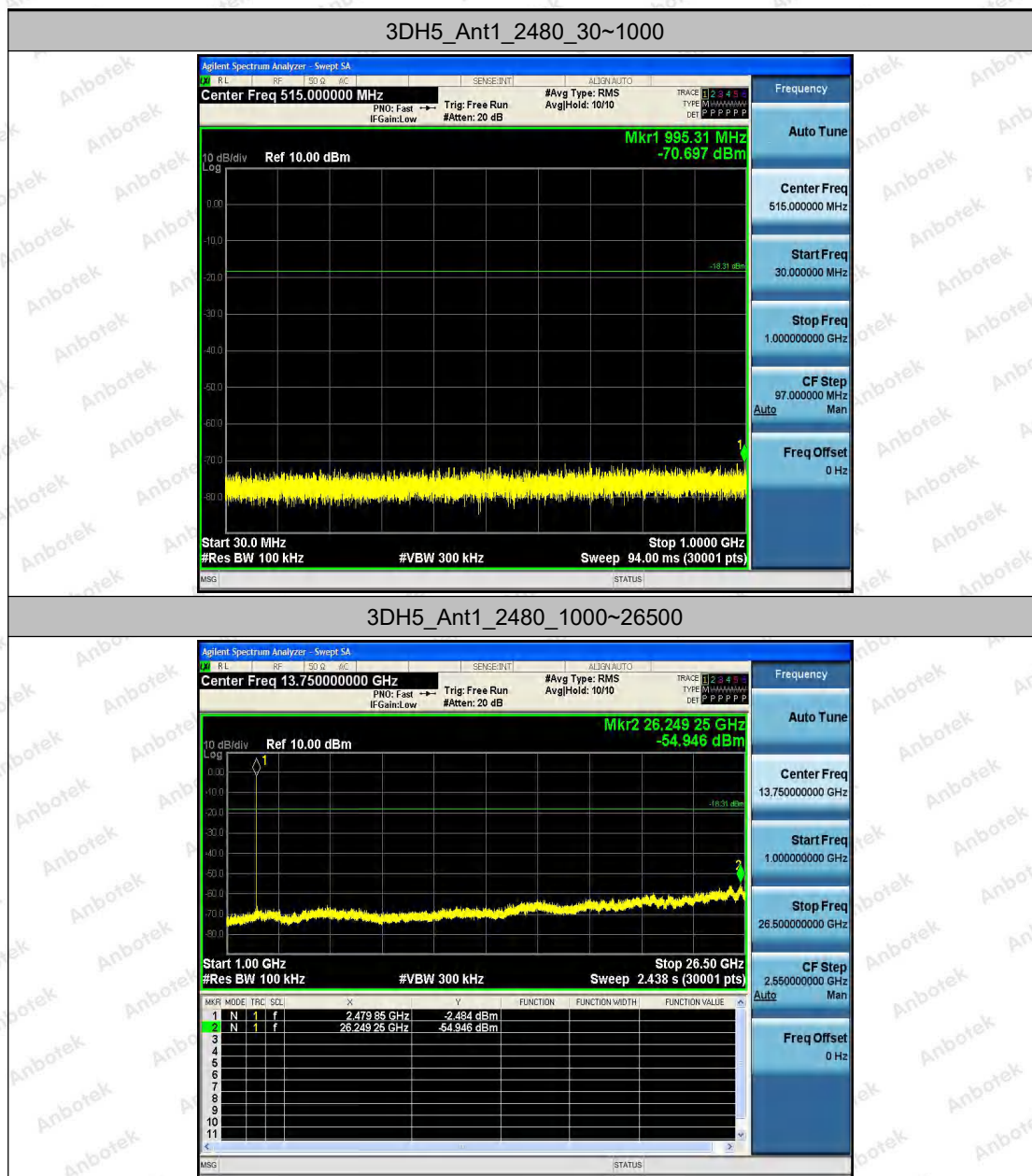


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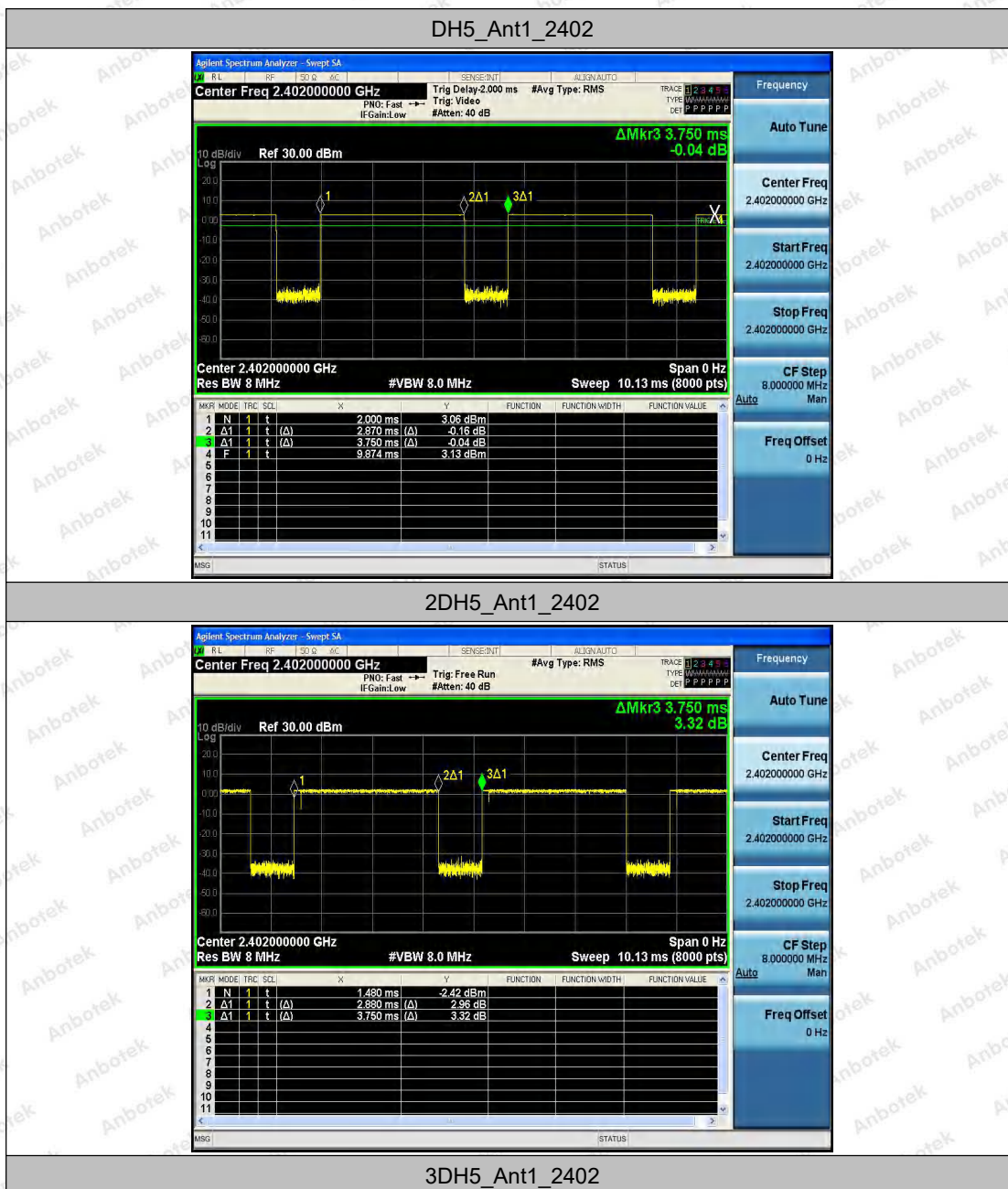
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs



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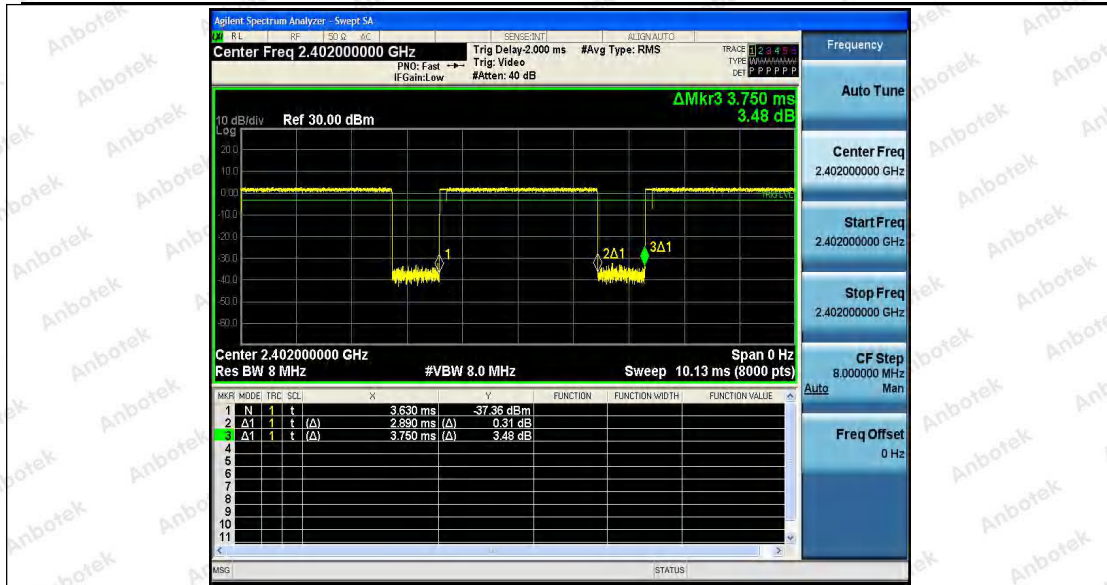
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