

Appendix Test Data

Report No.:	18220WC20015301	Test Sample No.:	1-2-2
Start Test Date:	2022.2.11	Finish Test Date:	2022.2.14
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56 %
Pressure:	1012 hPa		

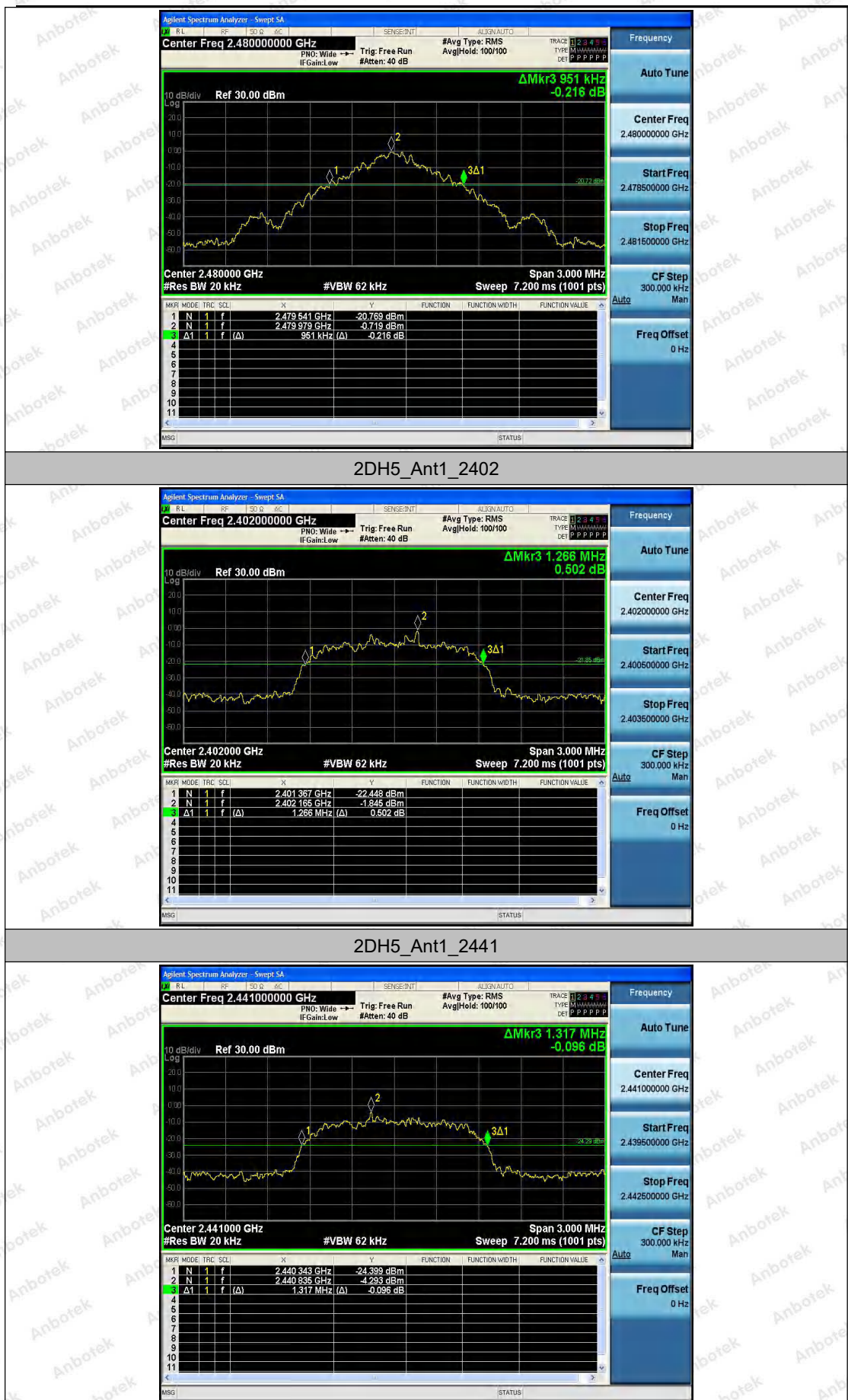
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.541	2402.495	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.951	2479.541	2480.492	---	PASS
2DH5	Ant1	2402	1.266	2401.367	2402.633	---	PASS
		2441	1.317	2440.343	2441.660	---	PASS
		2480	1.320	2479.340	2480.660	---	PASS
3DH5	Ant1	2402	1.311	2401.346	2402.657	---	PASS
		2441	1.272	2440.355	2441.627	---	PASS
		2480	1.269	2479.361	2480.630	---	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



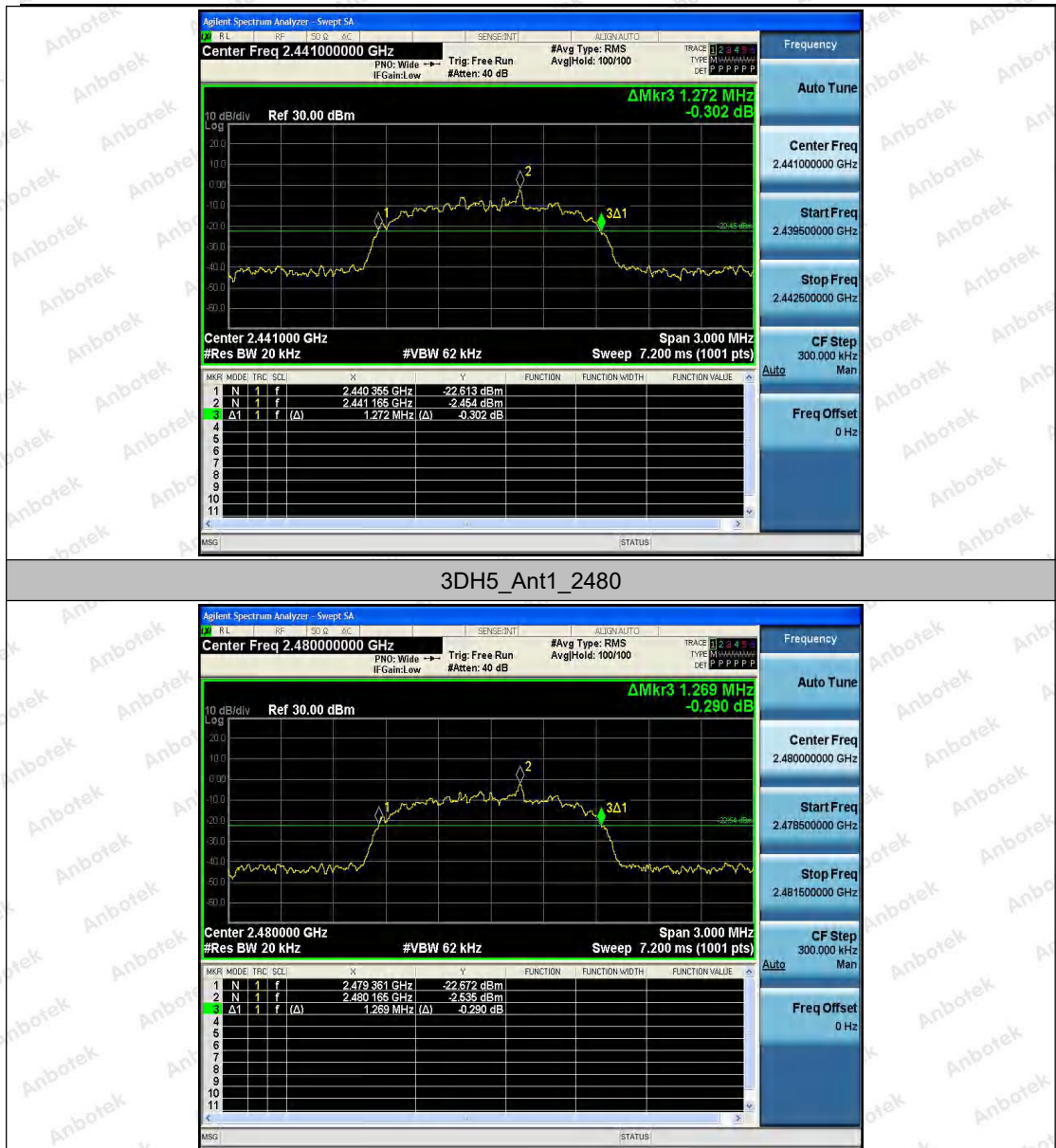
3DH5_Ant1_2441

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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	0.88271	2401.561	2402.444	---	PASS
		2441	0.88999	2440.557	2441.447	---	PASS
		2480	0.89154	2479.559	2480.450	---	PASS
2DH5	Ant1	2402	1.1941	2401.407	2402.601	---	PASS
		2441	1.1962	2440.405	2441.601	---	PASS
		2480	1.1955	2479.405	2480.601	---	PASS
3DH5	Ant1	2402	1.2056	2401.390	2402.596	---	PASS
		2441	1.2053	2440.391	2441.597	---	PASS
		2480	1.2029	2479.393	2480.596	---	PASS

Test Graphs

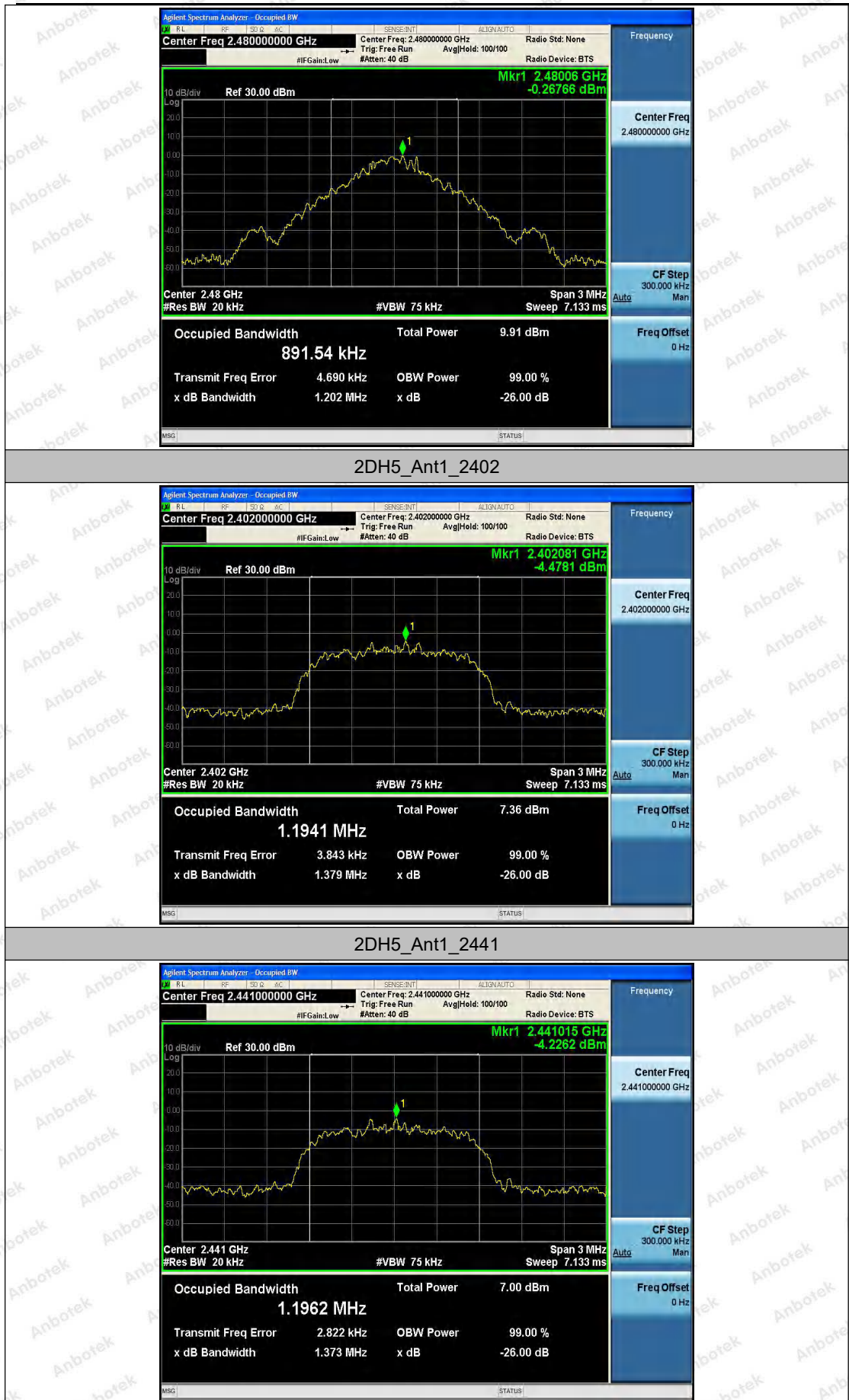


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2DH5_Ant1_2480



3DH5_Ant1_2402



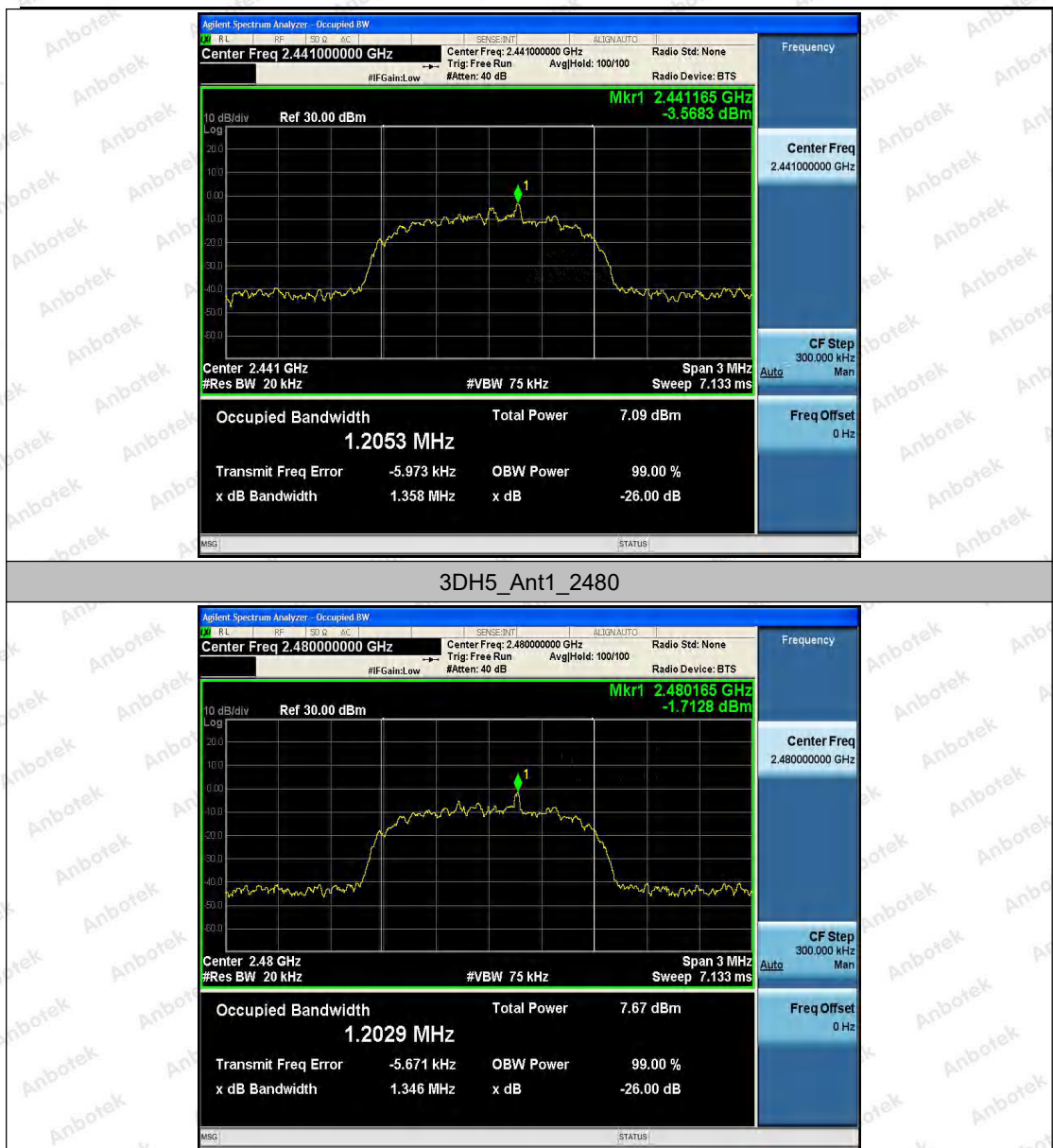
3DH5_Ant1_2441

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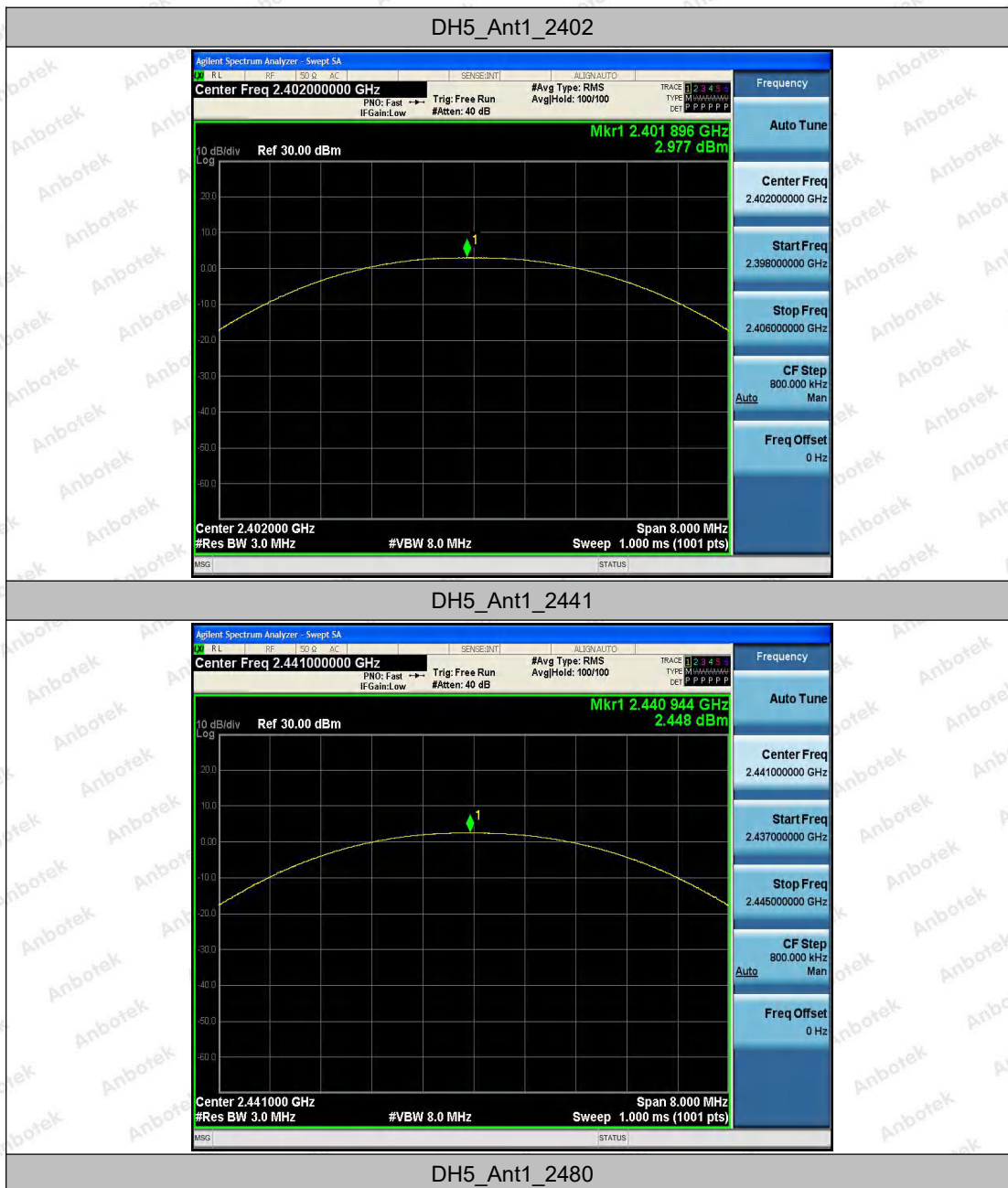
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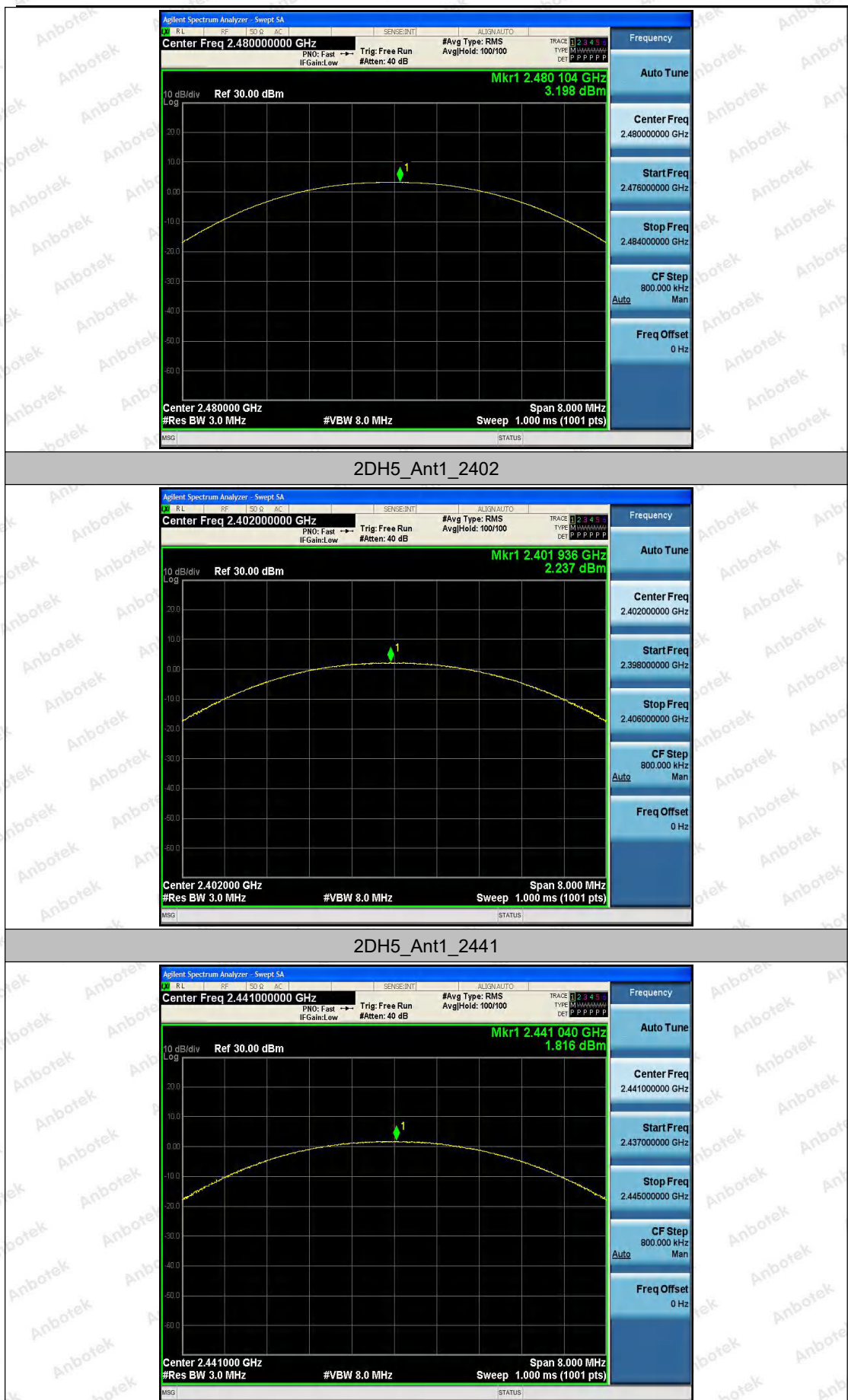
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.98	≤20.97	PASS
		2441	2.45	≤20.97	PASS
		2480	3.2	≤20.97	PASS
2DH5	Ant1	2402	2.24	≤20.97	PASS
		2441	1.82	≤20.97	PASS
		2480	2.62	≤20.97	PASS
3DH5	Ant1	2402	2.36	≤20.97	PASS
		2441	1.9	≤20.97	PASS
		2480	2.78	≤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	0.784	≥ 0.636	PASS
2DH5	Ant1	Hop	0.92	≥ 0.880	PASS
3DH5	Ant1	Hop	0.972	≥ 0.874	PASS

Test Graphs



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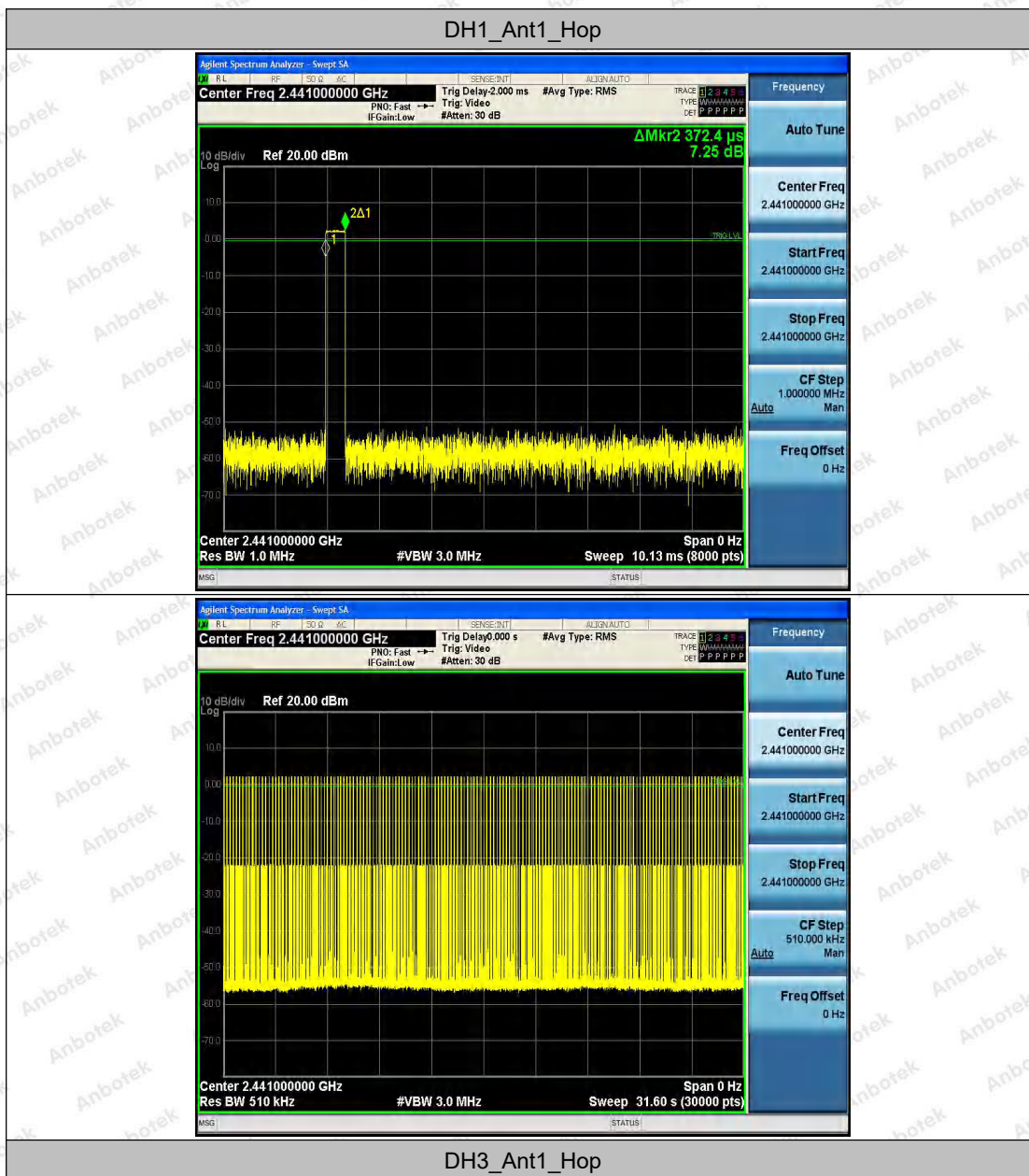
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	156	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.88	108	0.311	≤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	104	0.3	≤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	119	0.343	≤0.4	PASS

Test Graphs



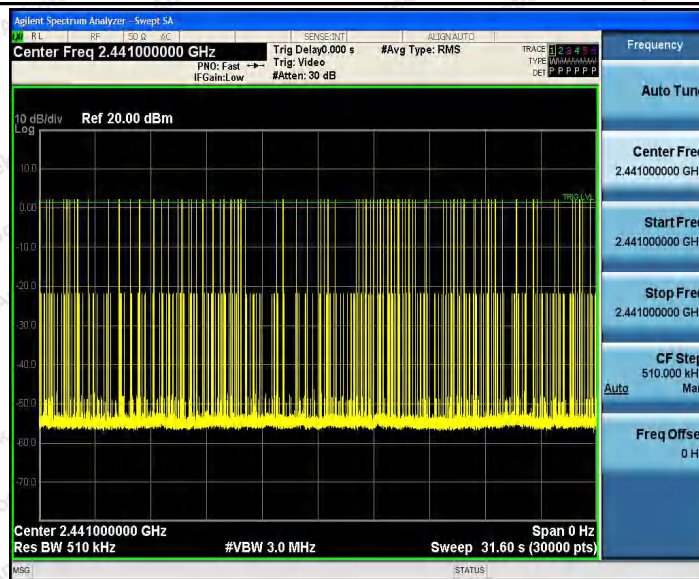


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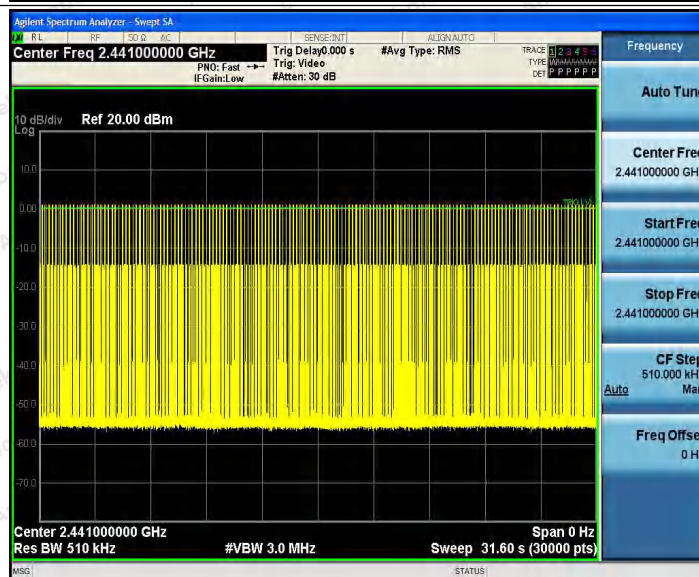
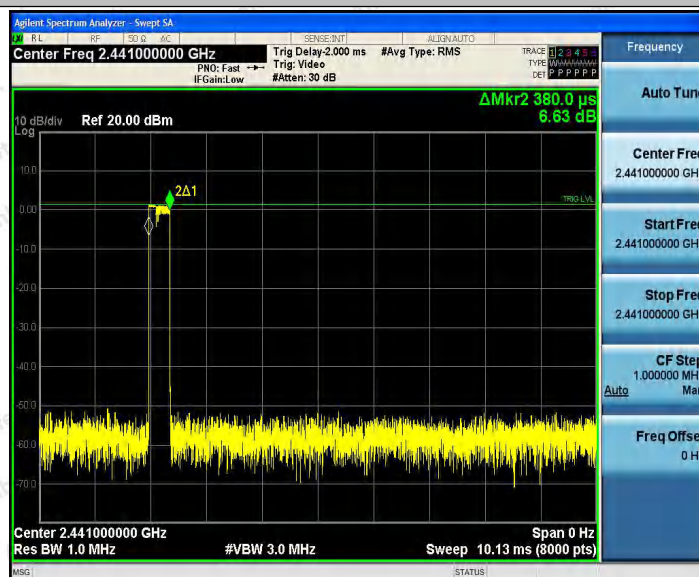
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2DH1 Ant1 Hop



2DH3 Ant1 Hop

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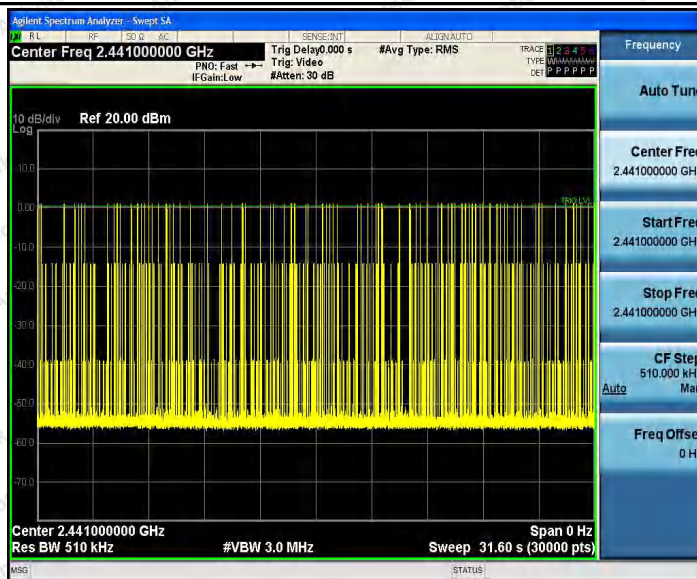


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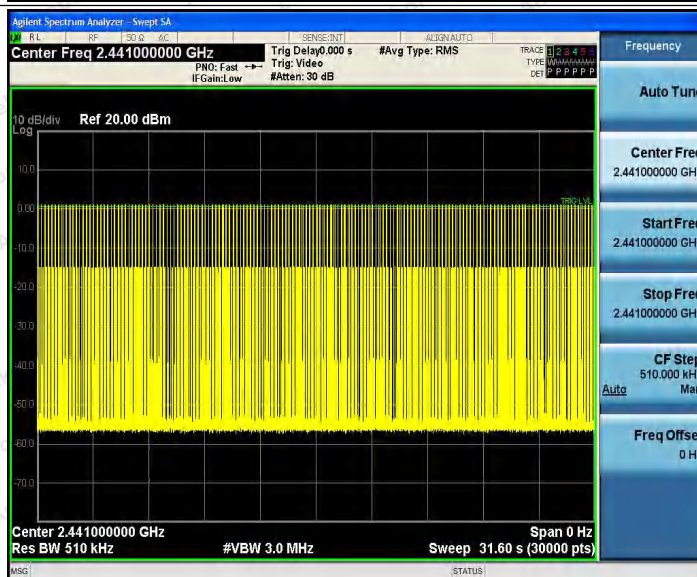
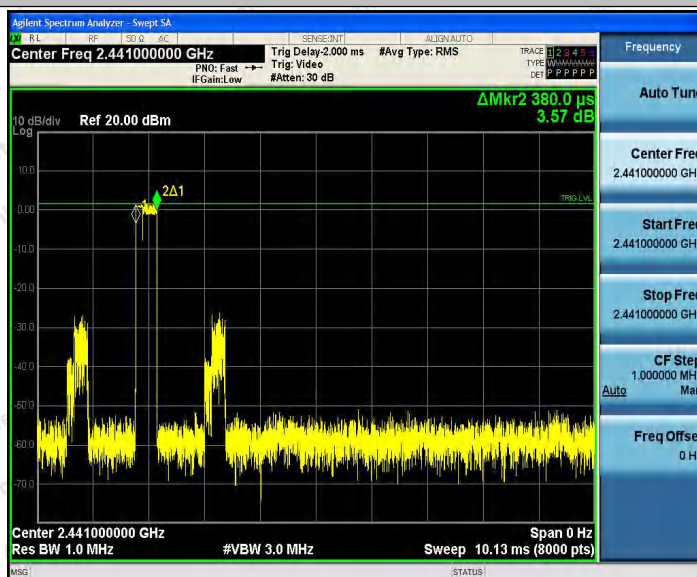
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3DH1_Ant1_Hop



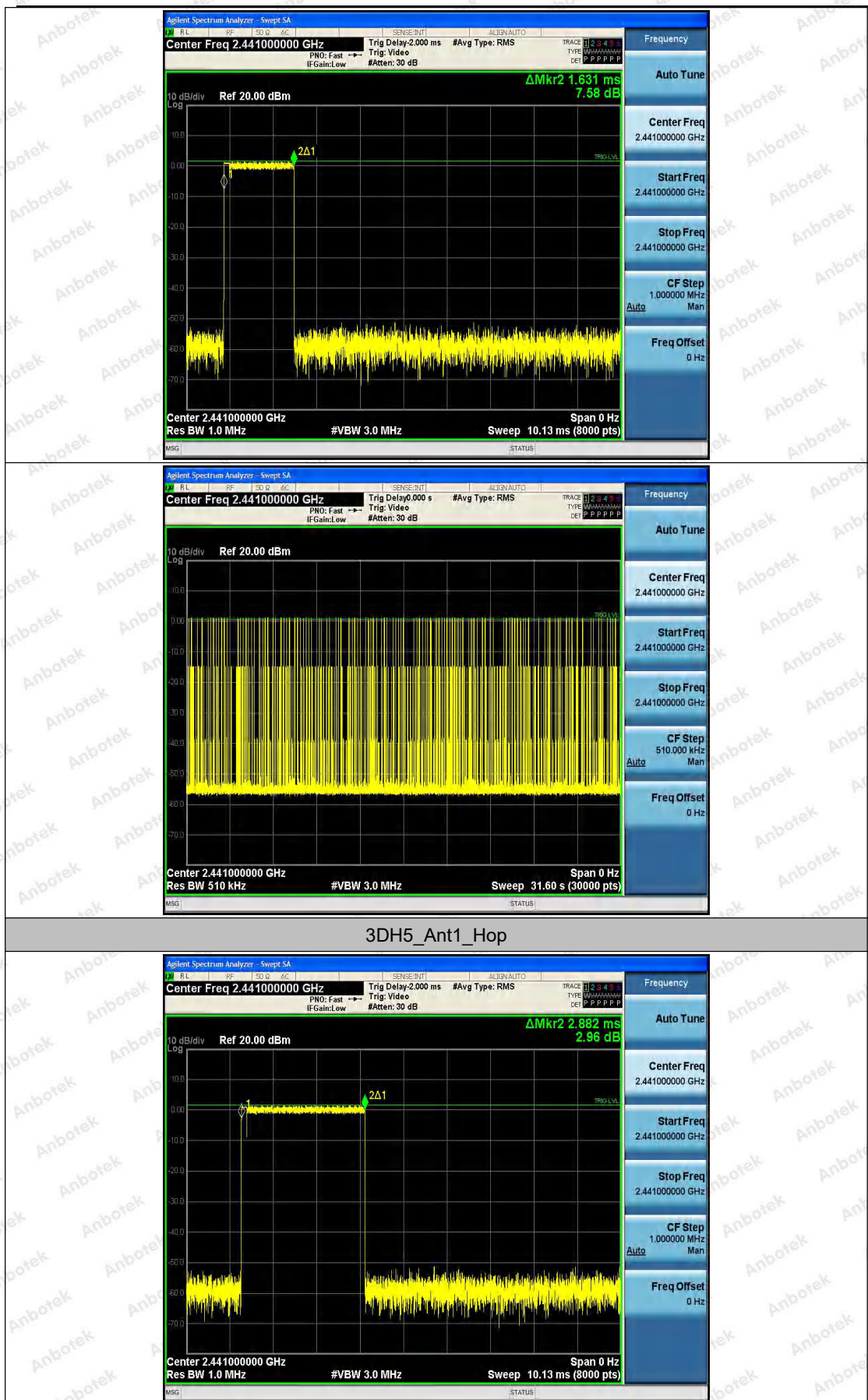
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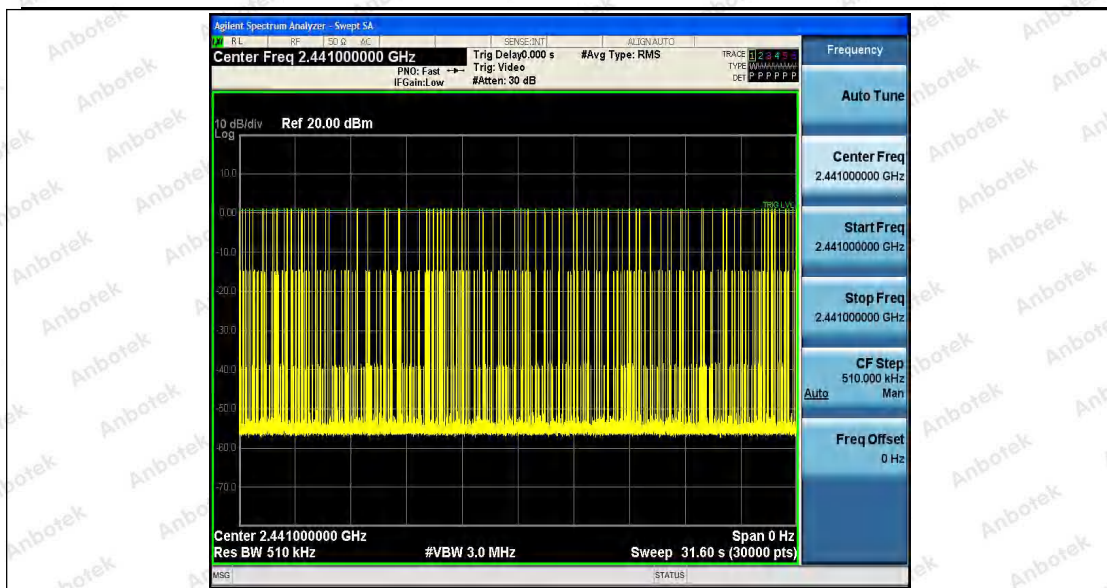


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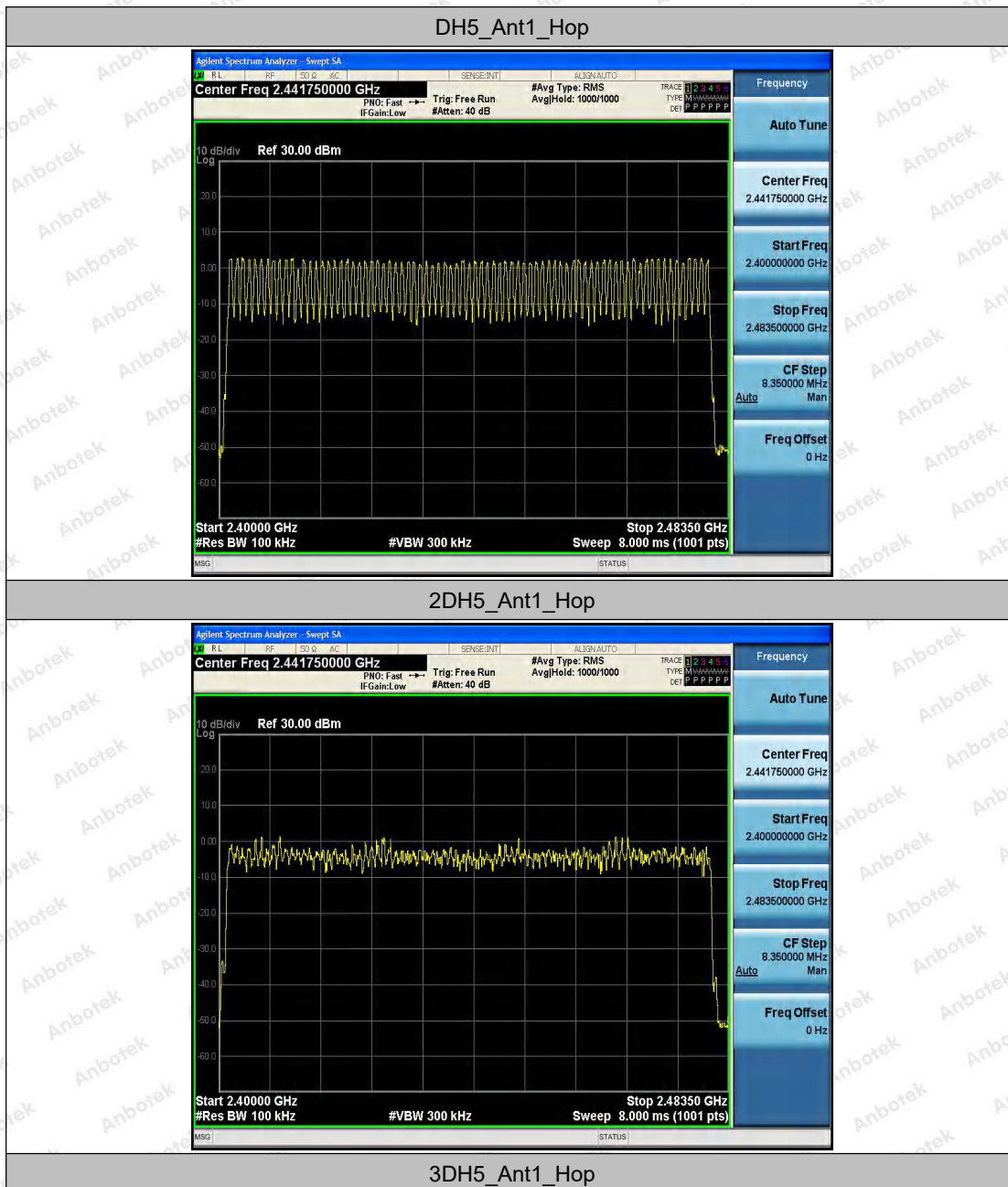
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Appendix F: Number of hopping channels

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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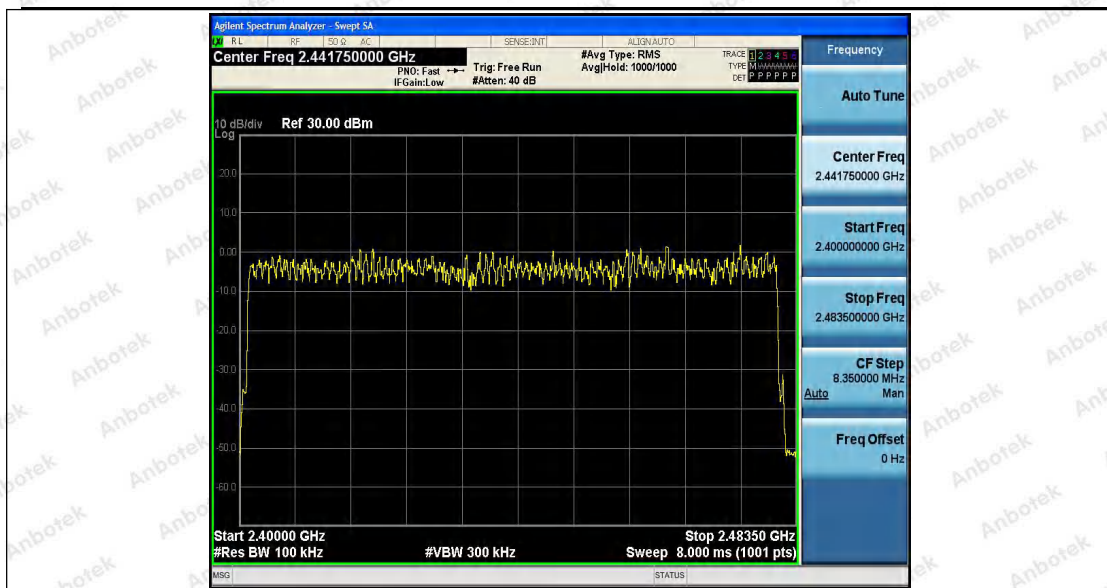
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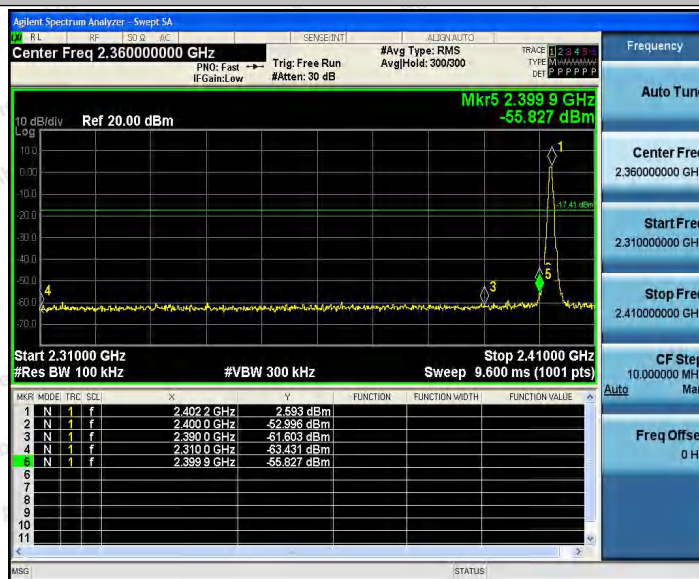
Appendix G: Band edge measurements

Test Result

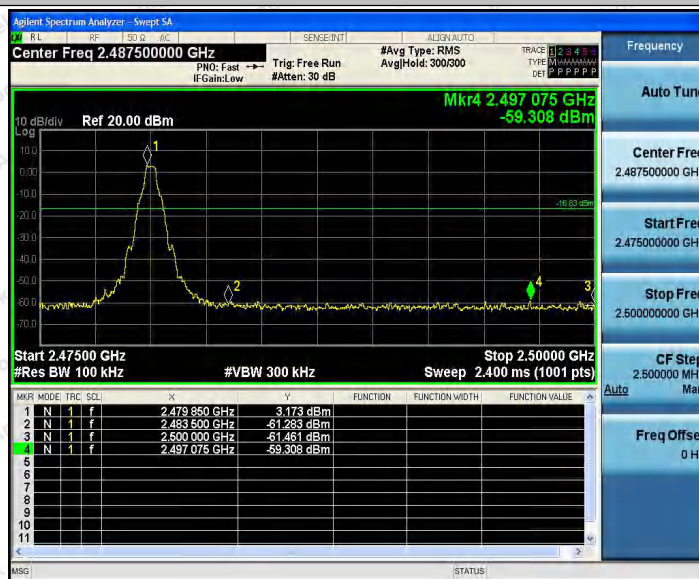
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.59	-55.83	≤-17.41	PASS
		High	2480	3.17	-59.31	≤-16.83	PASS
		Low	Hop	2.44	-59.64	≤-17.56	PASS
		High	Hop	2.52	-62.04	≤-17.48	PASS
2DH5	Ant1	Low	2402	-0.82	-54.22	≤-20.82	PASS
		High	2480	1.48	-58.29	≤-18.52	PASS
		Low	Hop	1.46	-59.84	≤-18.54	PASS
		High	Hop	-1.76	-61.69	≤-21.76	PASS
3DH5	Ant1	Low	2402	1.53	-55.31	≤-18.47	PASS
		High	2480	1.74	-58.96	≤-18.26	PASS
		Low	Hop	-0.68	-59.41	≤-20.68	PASS
		High	Hop	1.83	-62.31	≤-18.17	PASS

Test Graphs

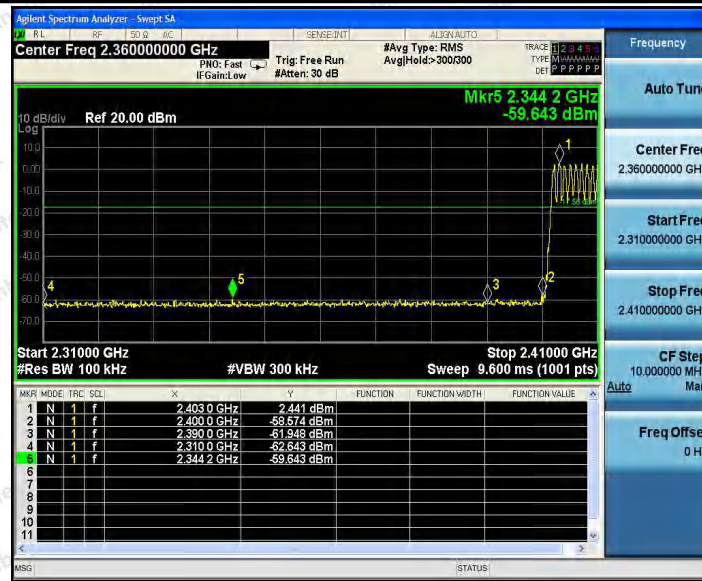
DH5_Ant1_Low_2402



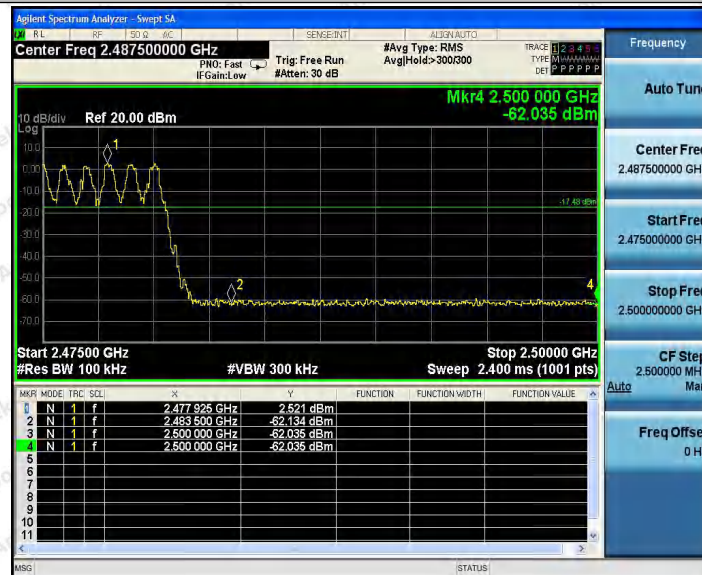
DH5_Ant1_High_2480



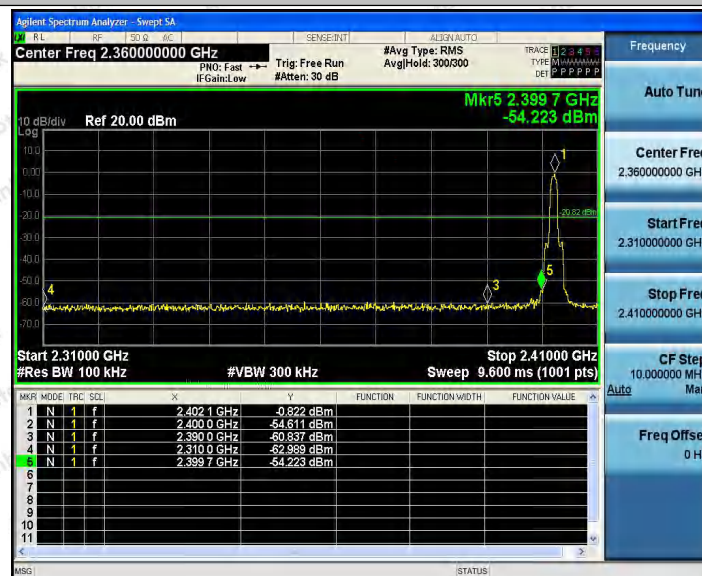
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



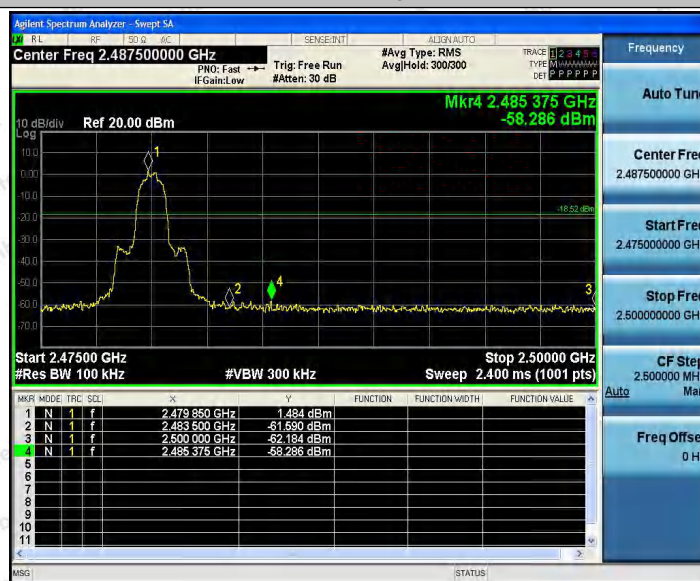
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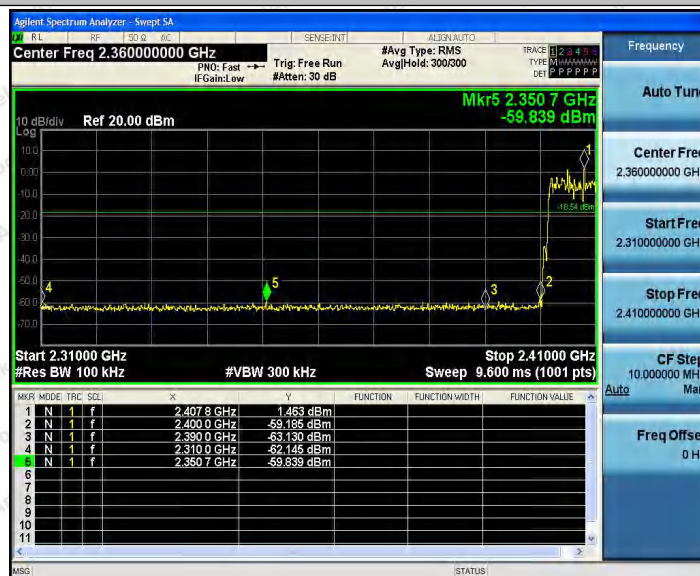
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



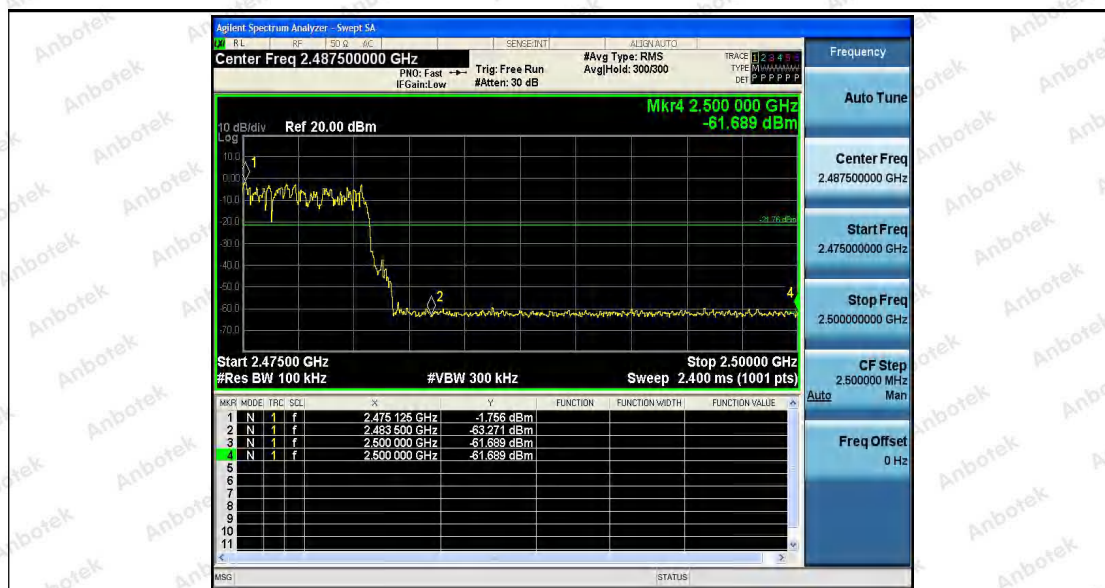
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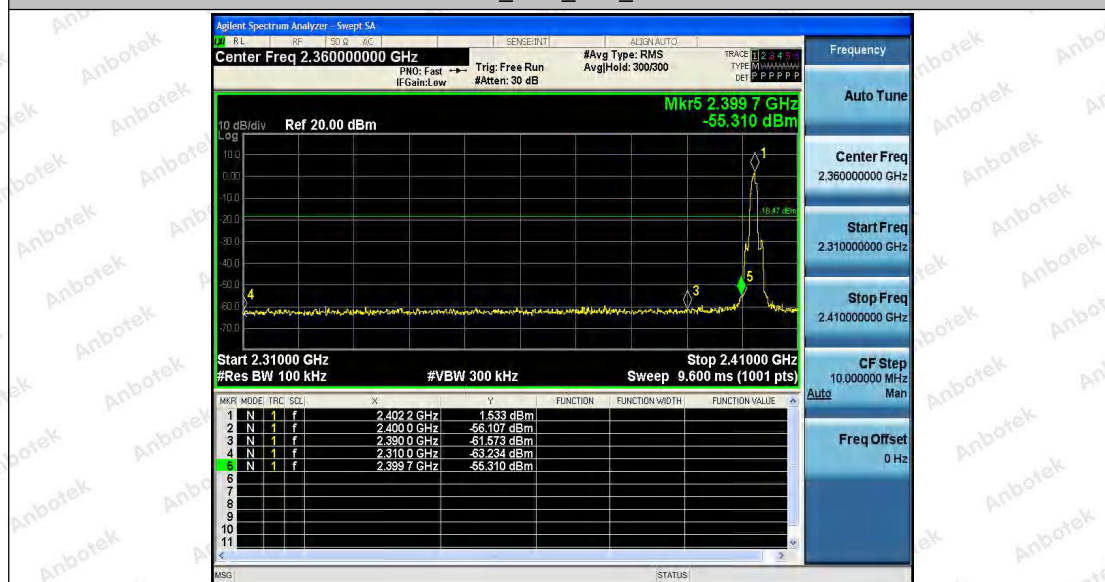
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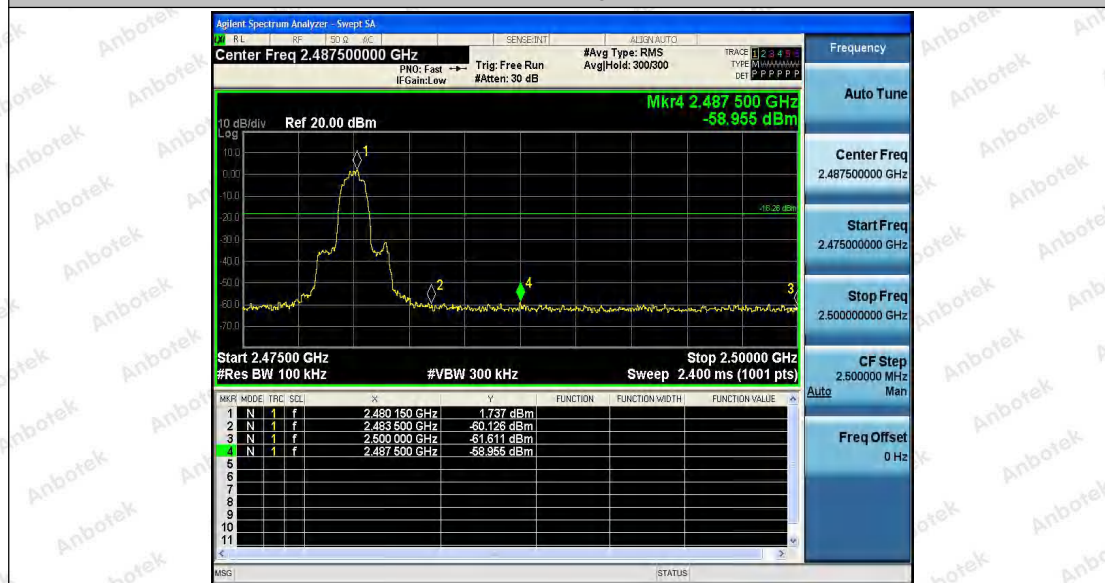
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

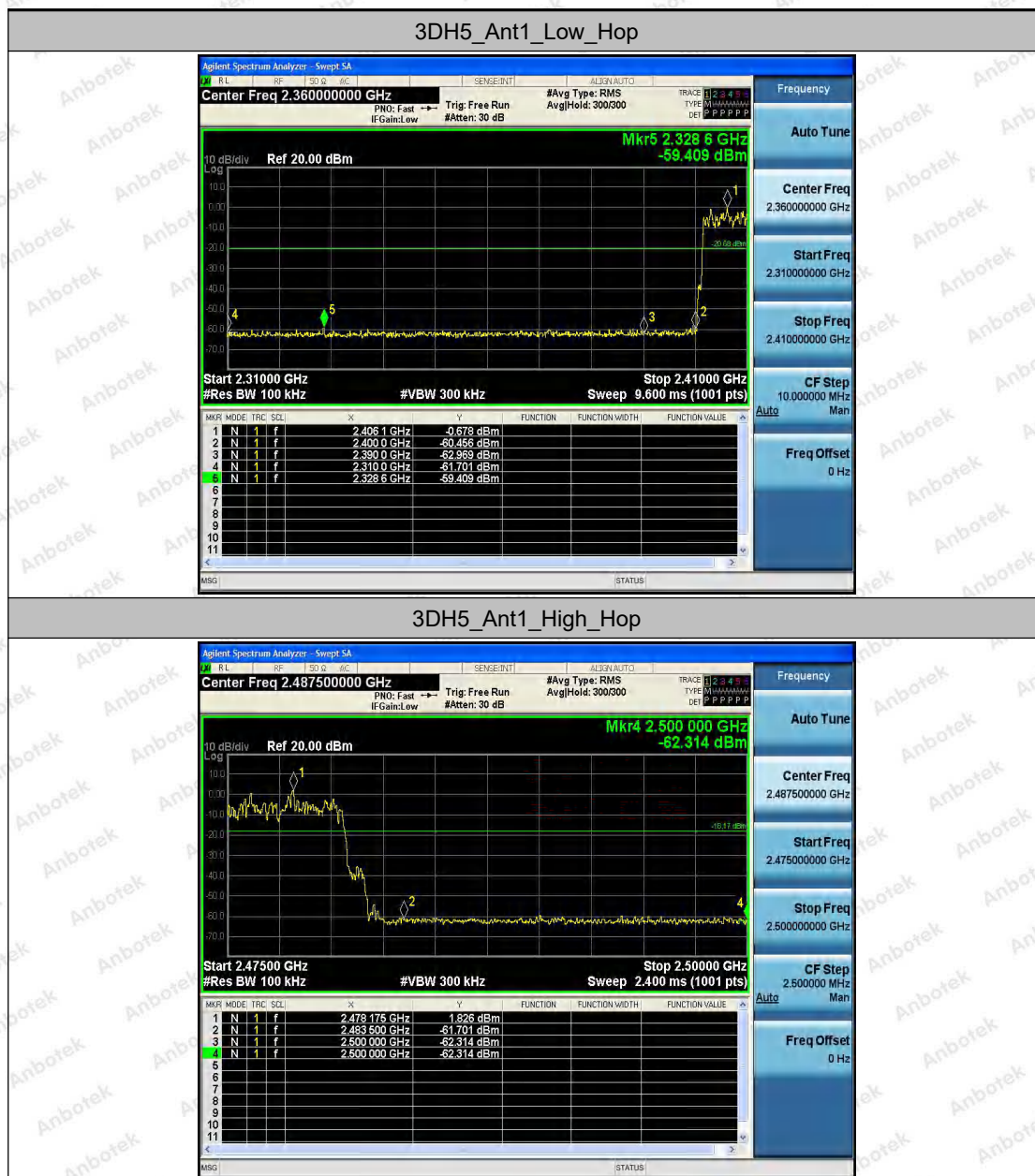


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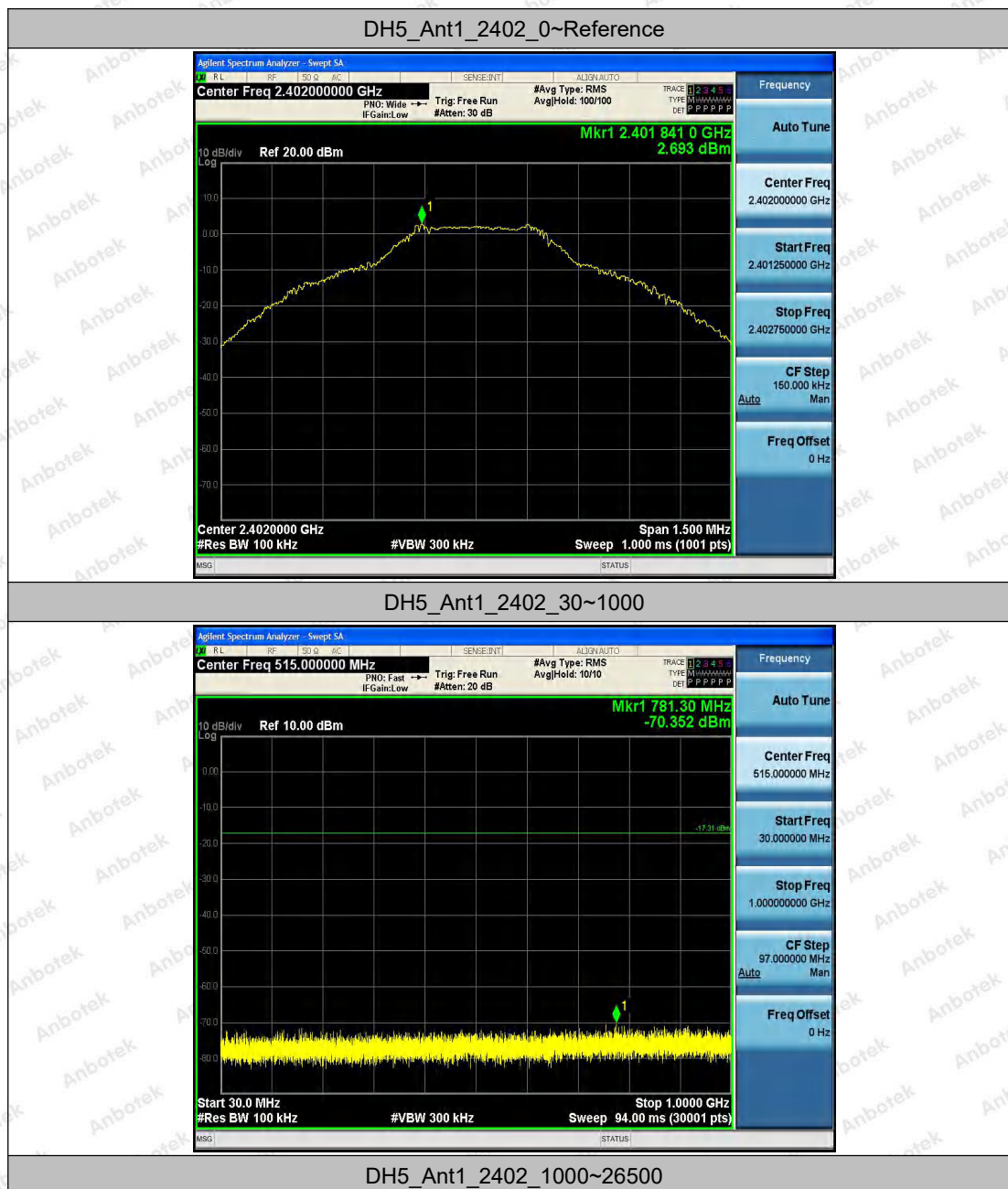
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.69	2.69	---	PASS
			30~1000	2.69	-70.35	≤-17.31	PASS
			1000~26500	2.69	-55.6	≤-17.31	PASS
		2441	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-70.5	≤-18.31	PASS
			1000~26500	1.70	-55.3	≤-18.31	PASS
		2480	Reference	3.02	3.02	---	PASS
			30~1000	3.02	-69.48	≤-16.99	PASS
			1000~26500	3.02	-55.84	≤-16.99	PASS
2DH5	Ant1	2402	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-71.17	≤-19.3	PASS
			1000~26500	0.71	-56.28	≤-19.3	PASS
		2441	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-70.05	≤-19.79	PASS
			1000~26500	0.22	-55.36	≤-19.79	PASS
		2480	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-70.8	≤-18.69	PASS
			1000~26500	1.32	-55.6	≤-18.69	PASS
3DH5	Ant1	2402	Reference	1.28	1.28	---	PASS
			30~1000	1.28	-70.08	≤-18.72	PASS
			1000~26500	1.28	-55.28	≤-18.72	PASS
		2441	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-70.84	≤-19.75	PASS
			1000~26500	0.25	-55.93	≤-19.75	PASS
		2480	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-69.56	≤-20.58	PASS
			1000~26500	-0.58	-55.87	≤-20.58	PASS

Test Graphs



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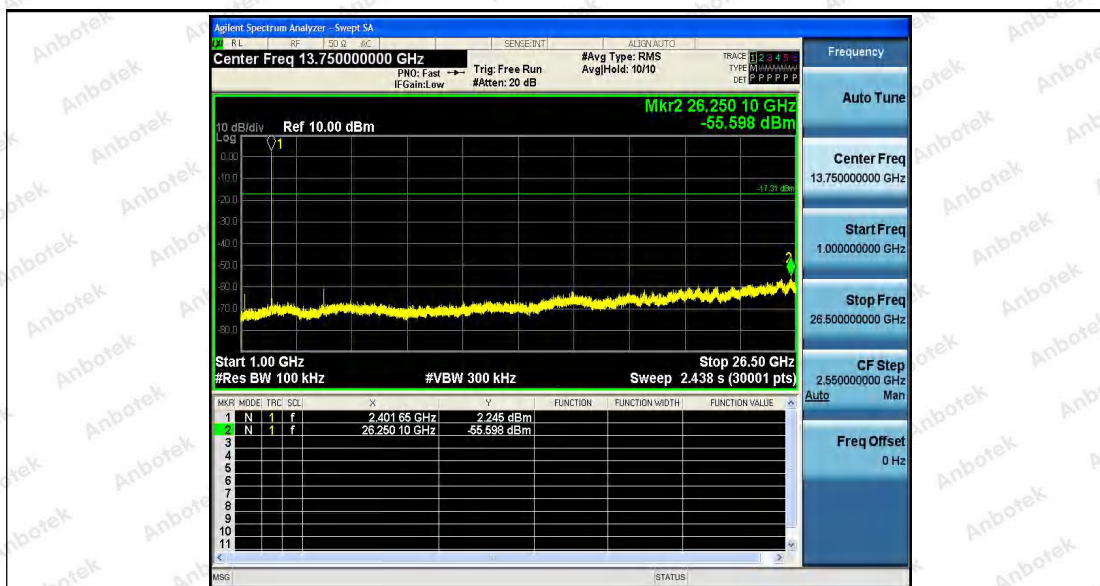
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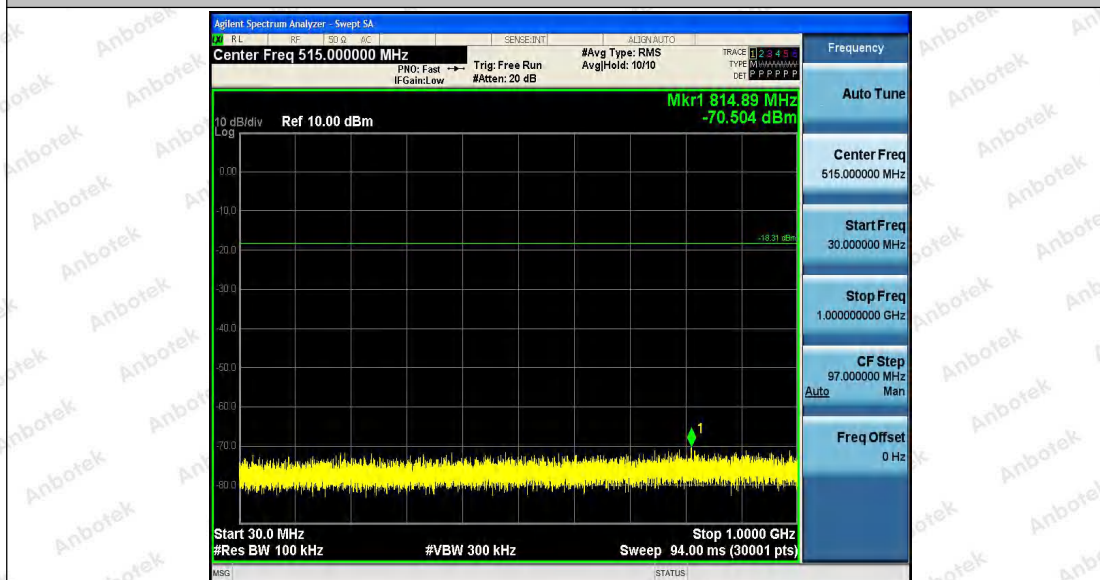
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



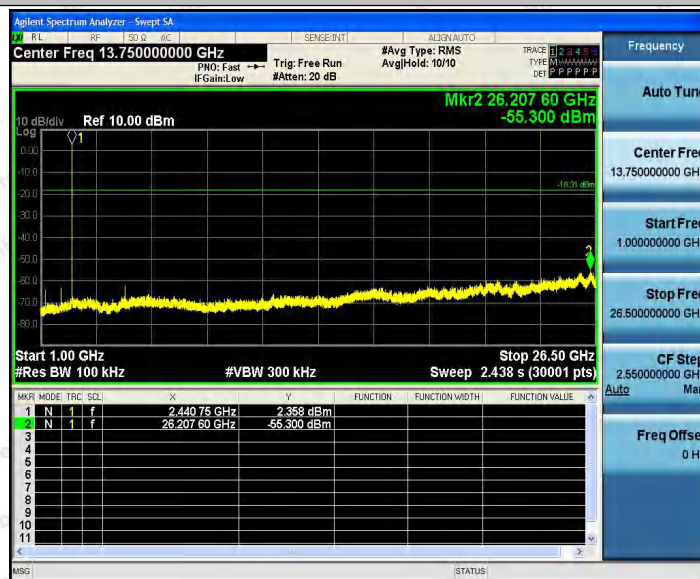
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



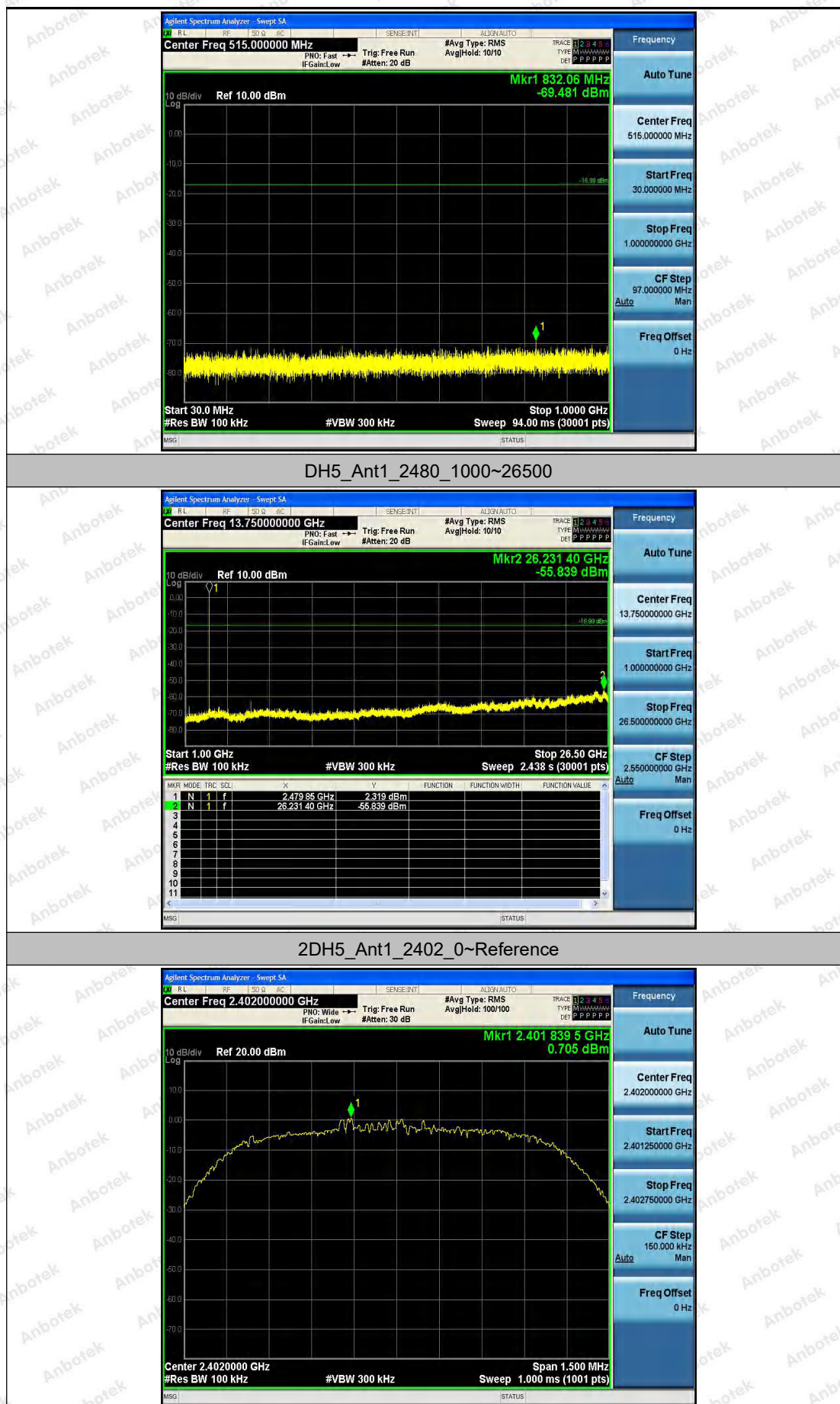
DH5_Ant1_2480_30~1000

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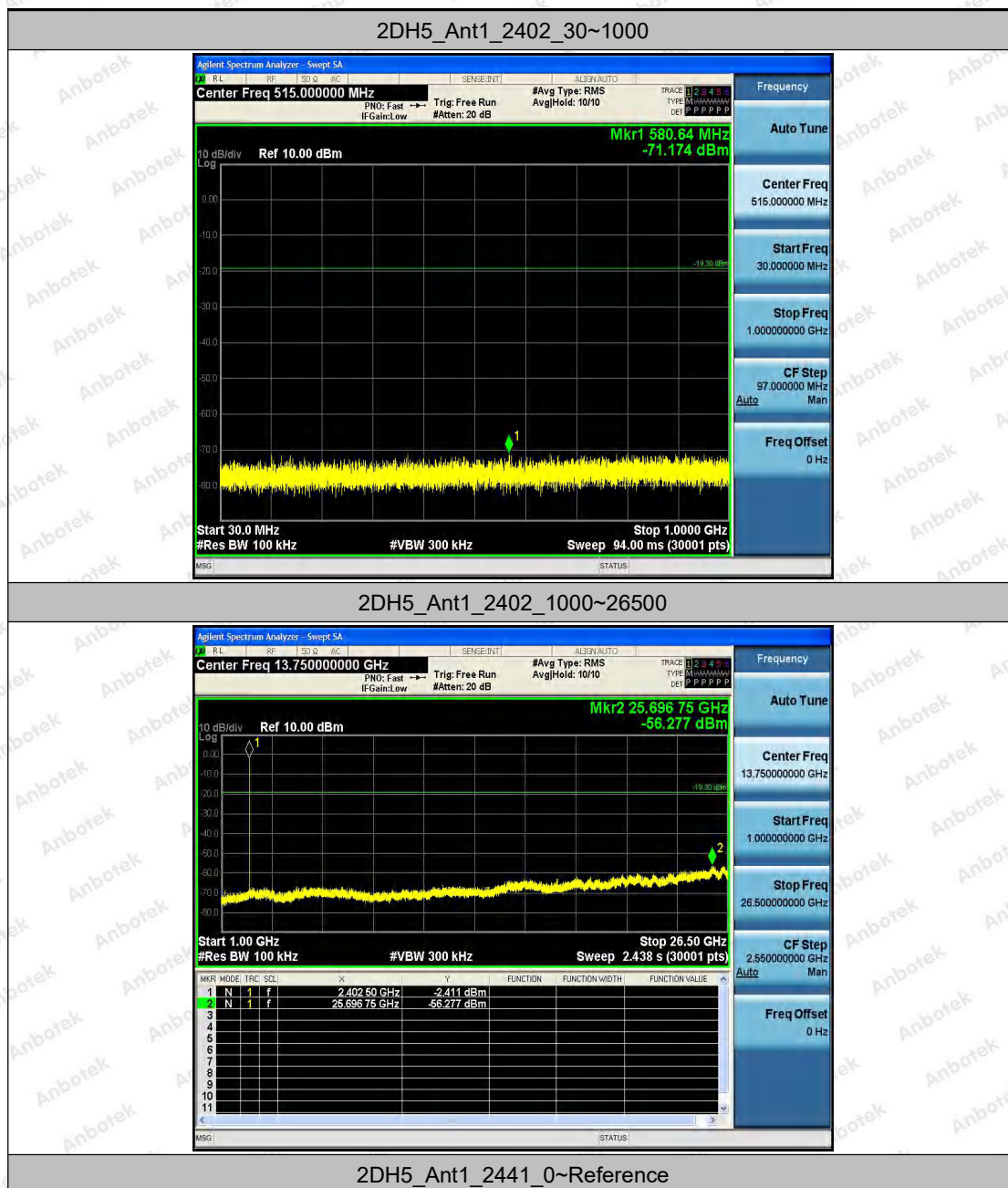


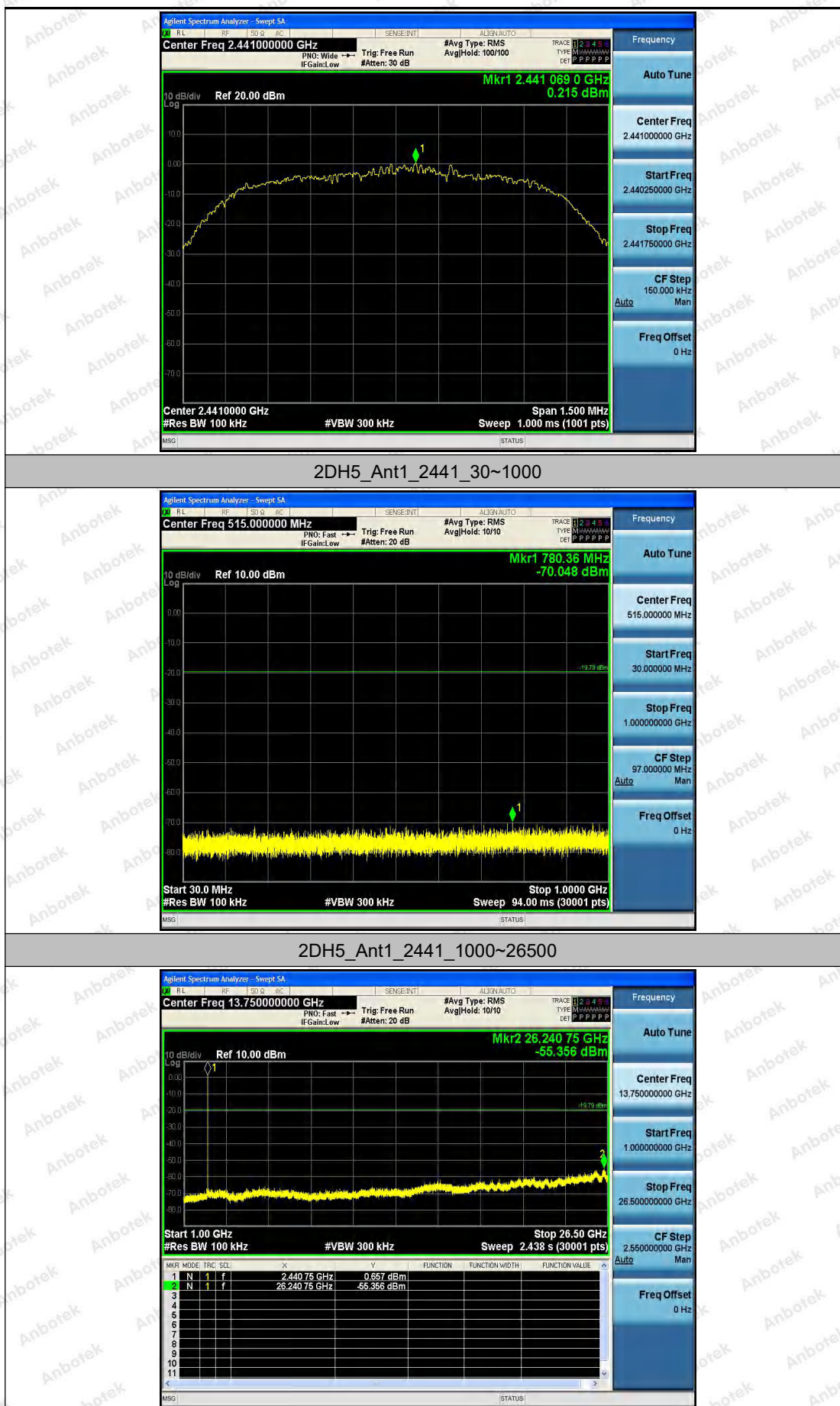
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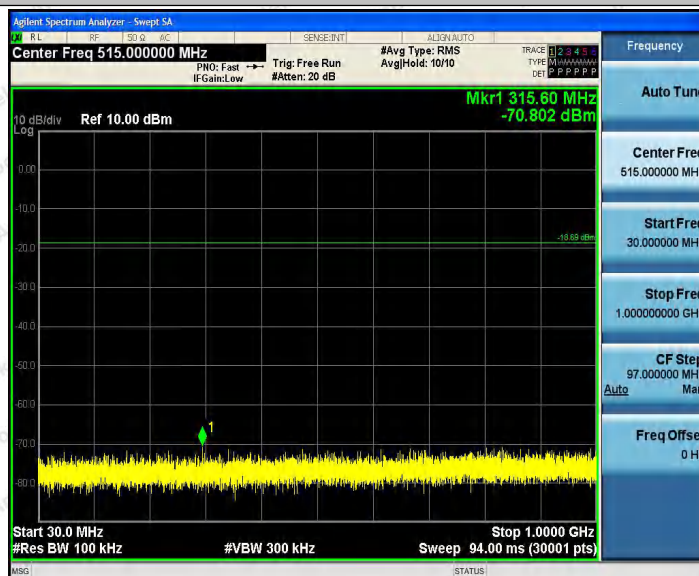
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



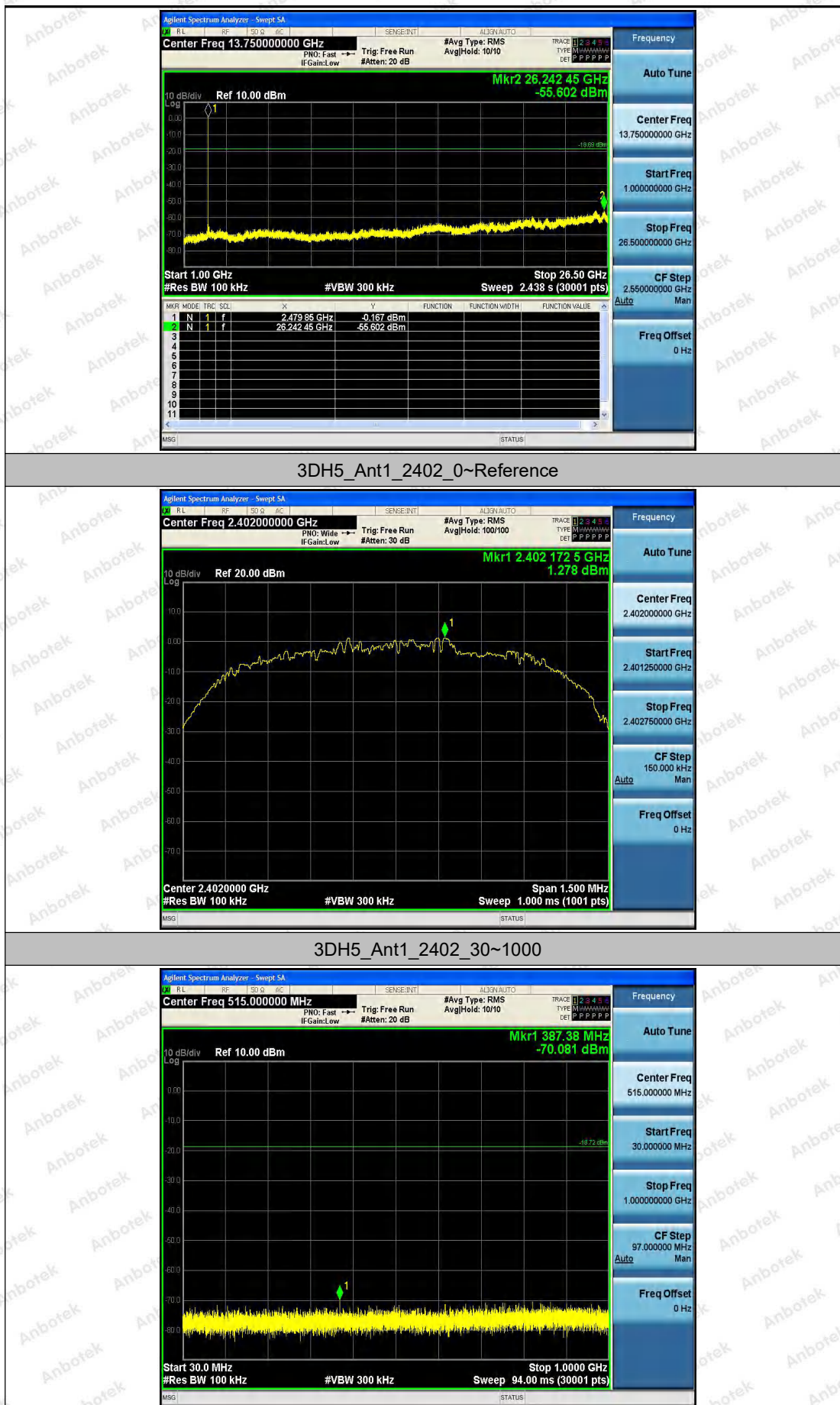
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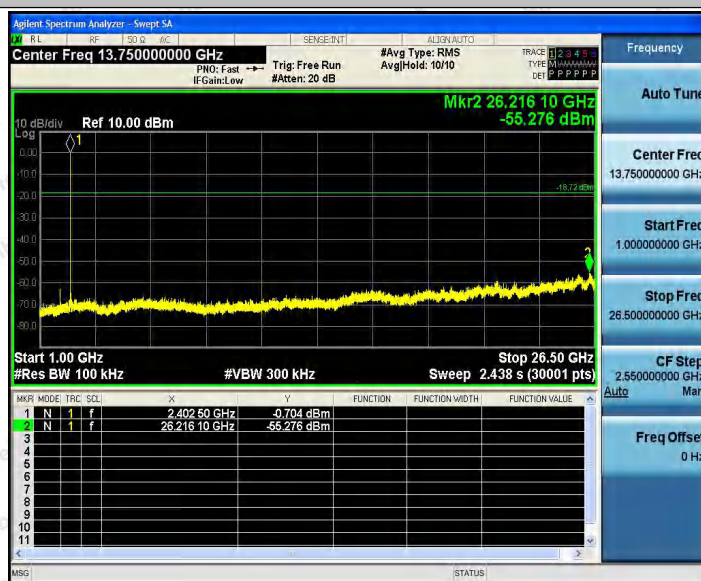
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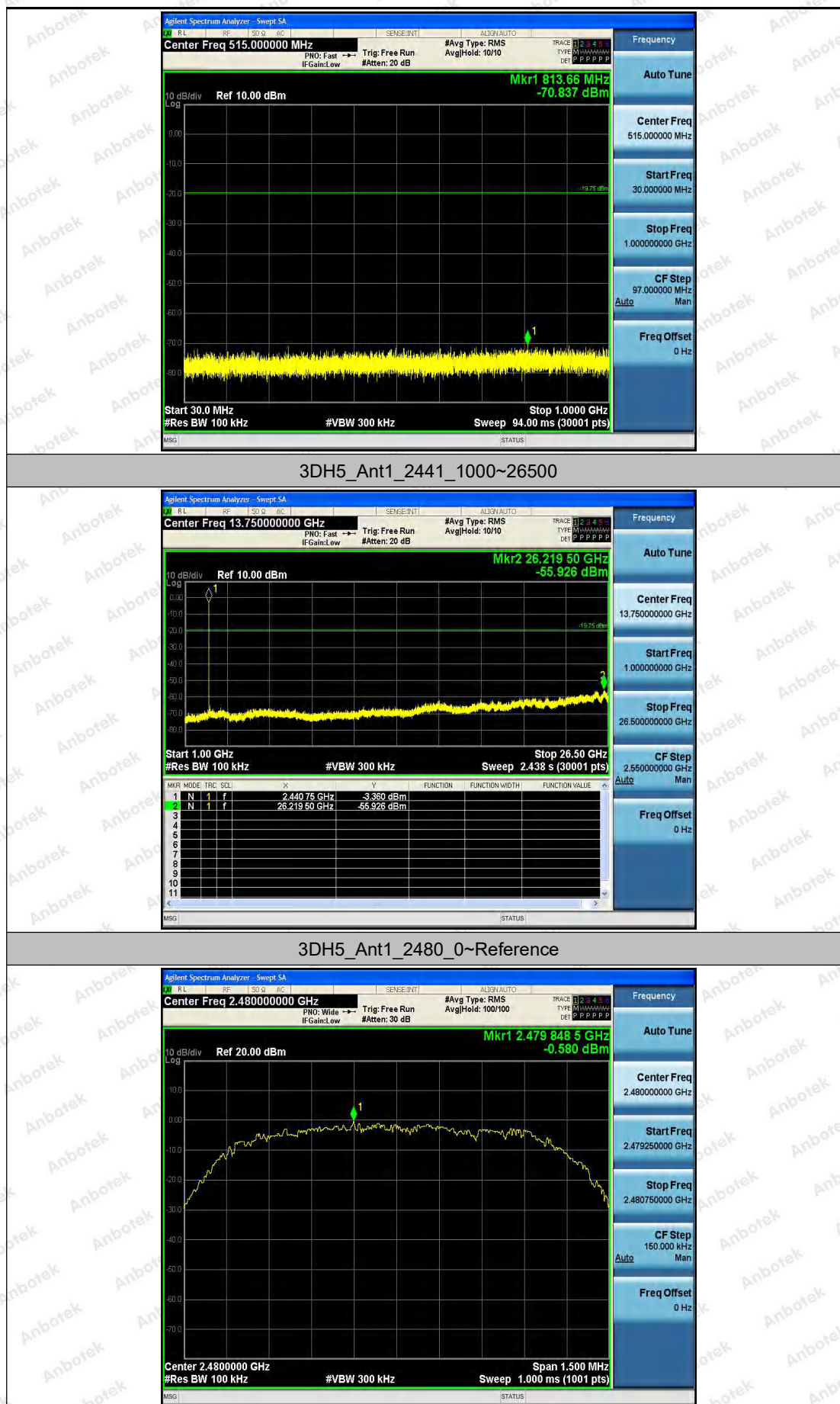
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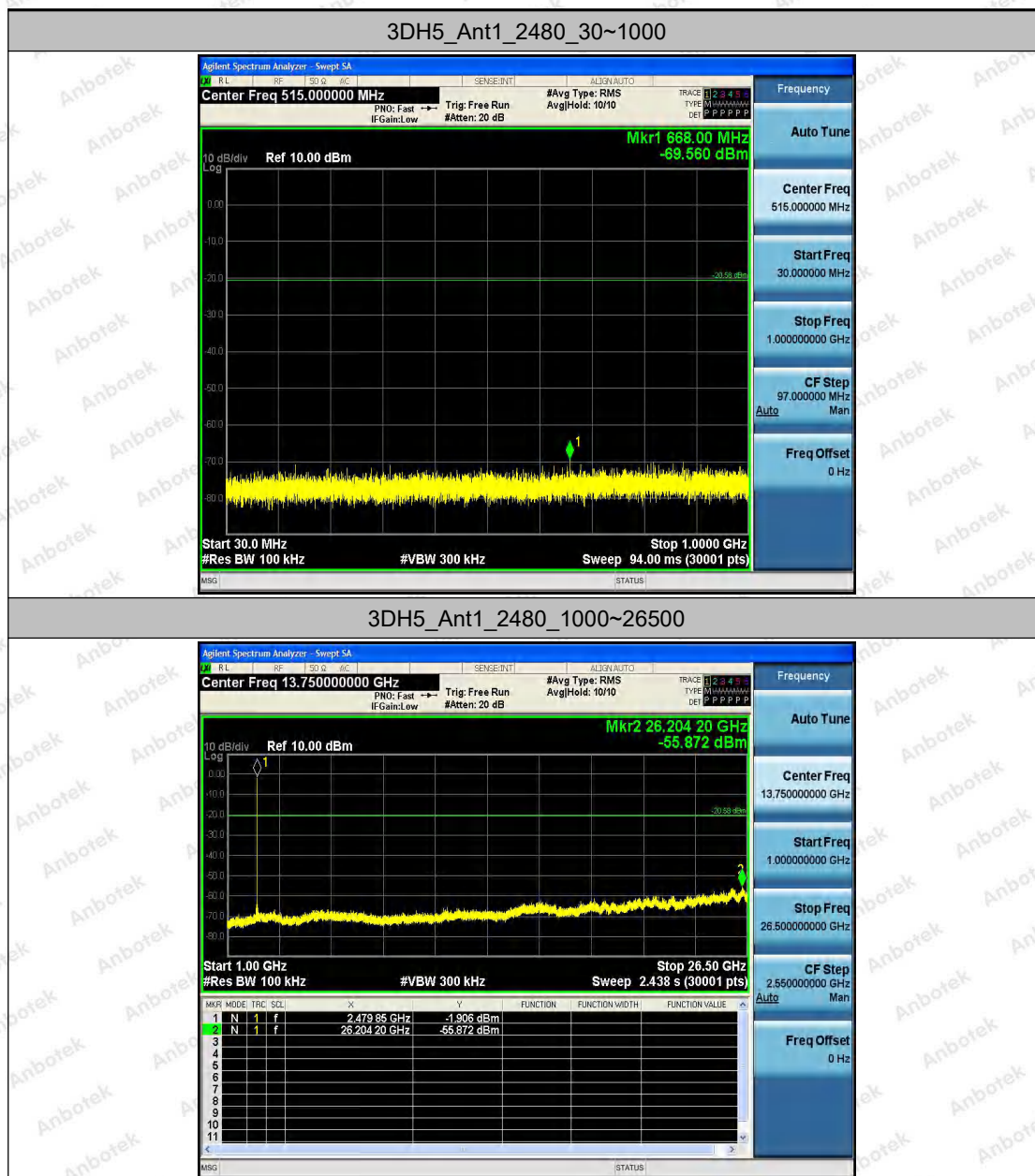


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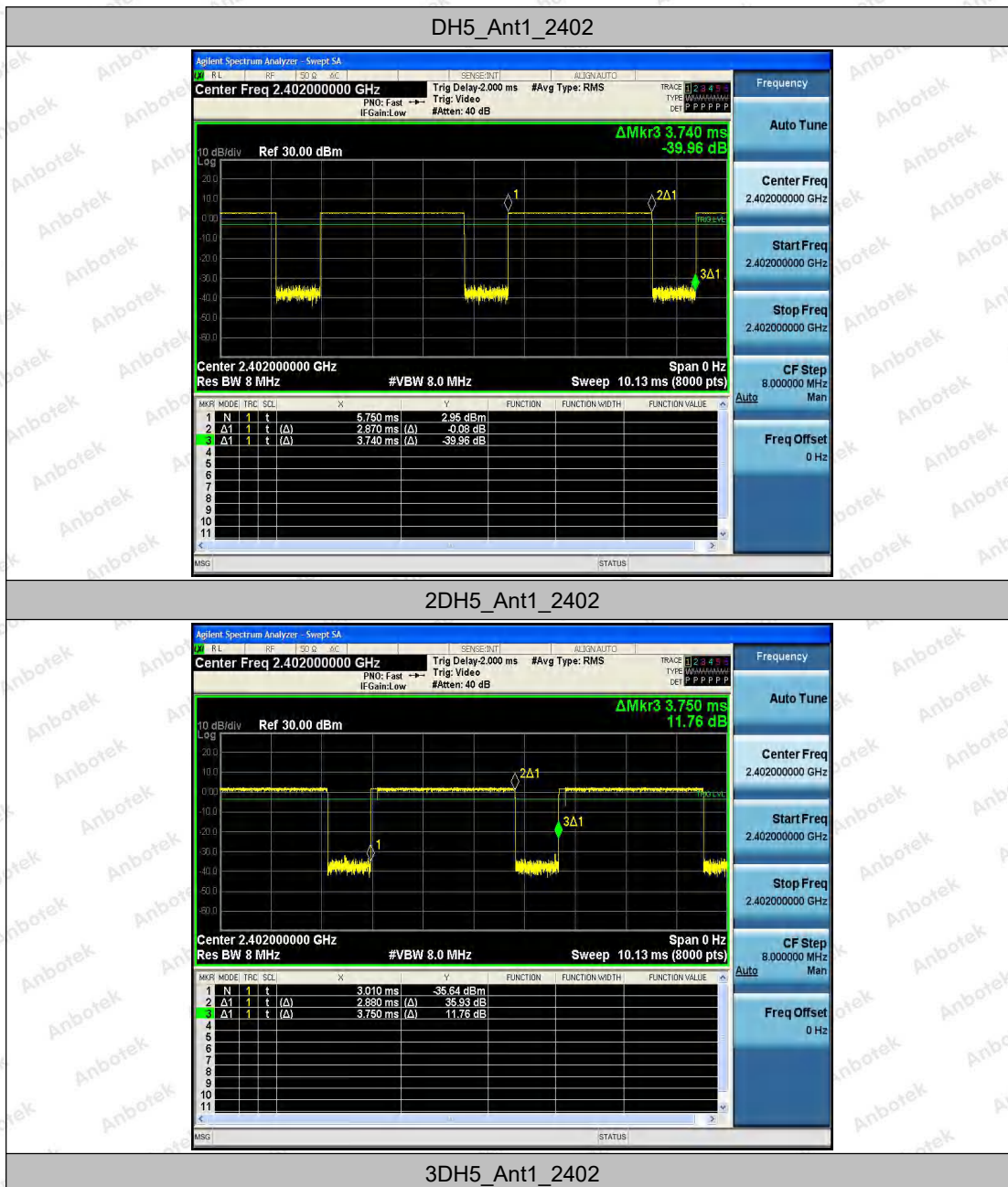
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.7674	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs



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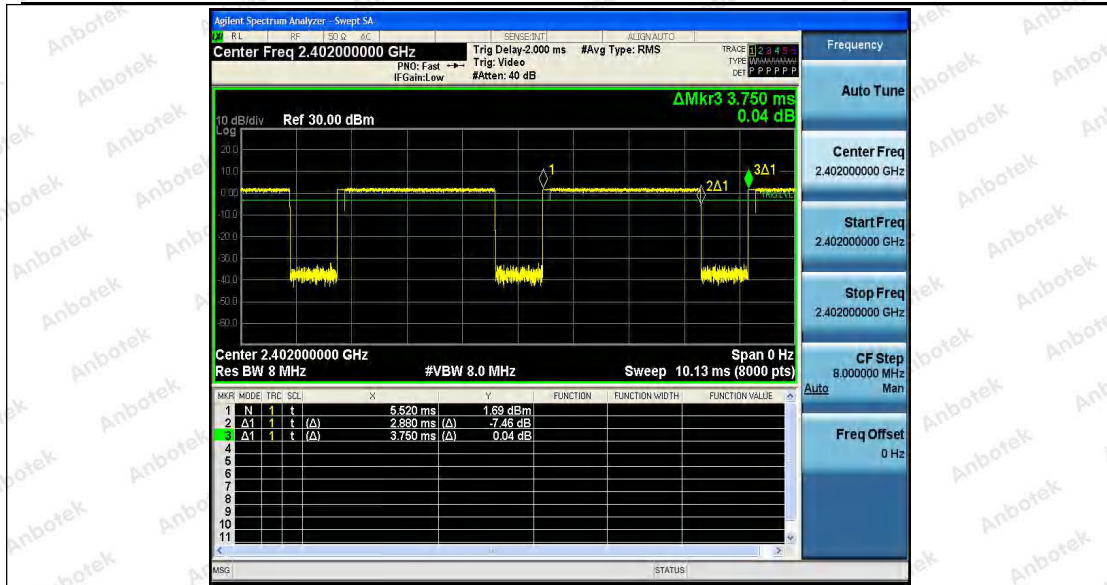
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