

Appendix Test Data

Report No.:	18220WC20031101	Test Sample No.:	1-2-2
Start Test Date:	2022.2.22	Finish Test Date:	2022.2.25
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	0.945	2401.541	2402.486	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.948	2479.541	2480.489	---	PASS
2DH5	Ant1	2402	1.320	2401.337	2402.657	---	PASS
		2441	1.326	2440.337	2441.663	---	PASS
		2480	1.320	2479.337	2480.657	---	PASS
3DH5	Ant1	2402	1.311	2401.343	2402.654	---	PASS
		2441	1.269	2440.355	2441.624	---	PASS
		2480	1.314	2479.343	2480.657	---	PASS

Test Graphs

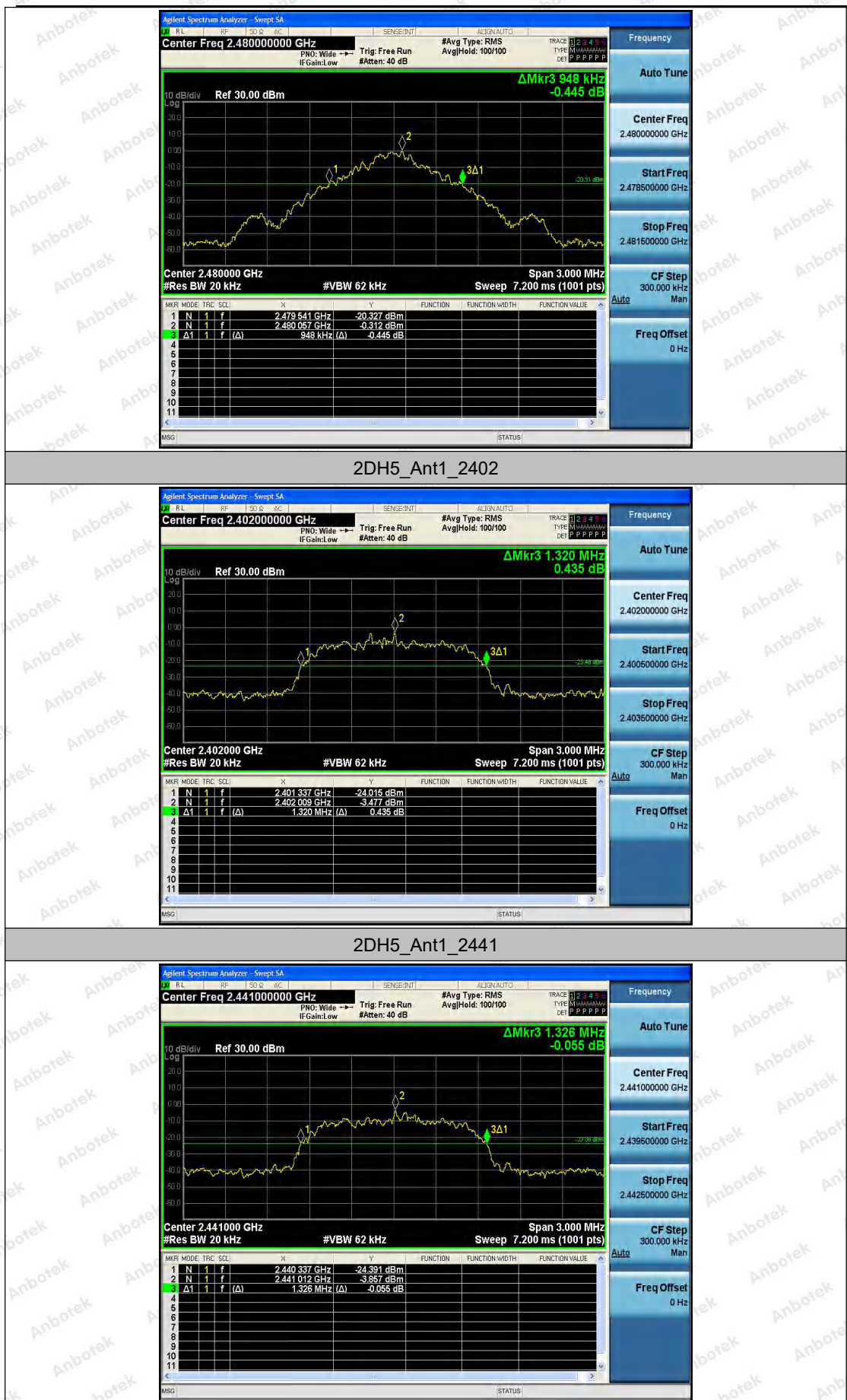
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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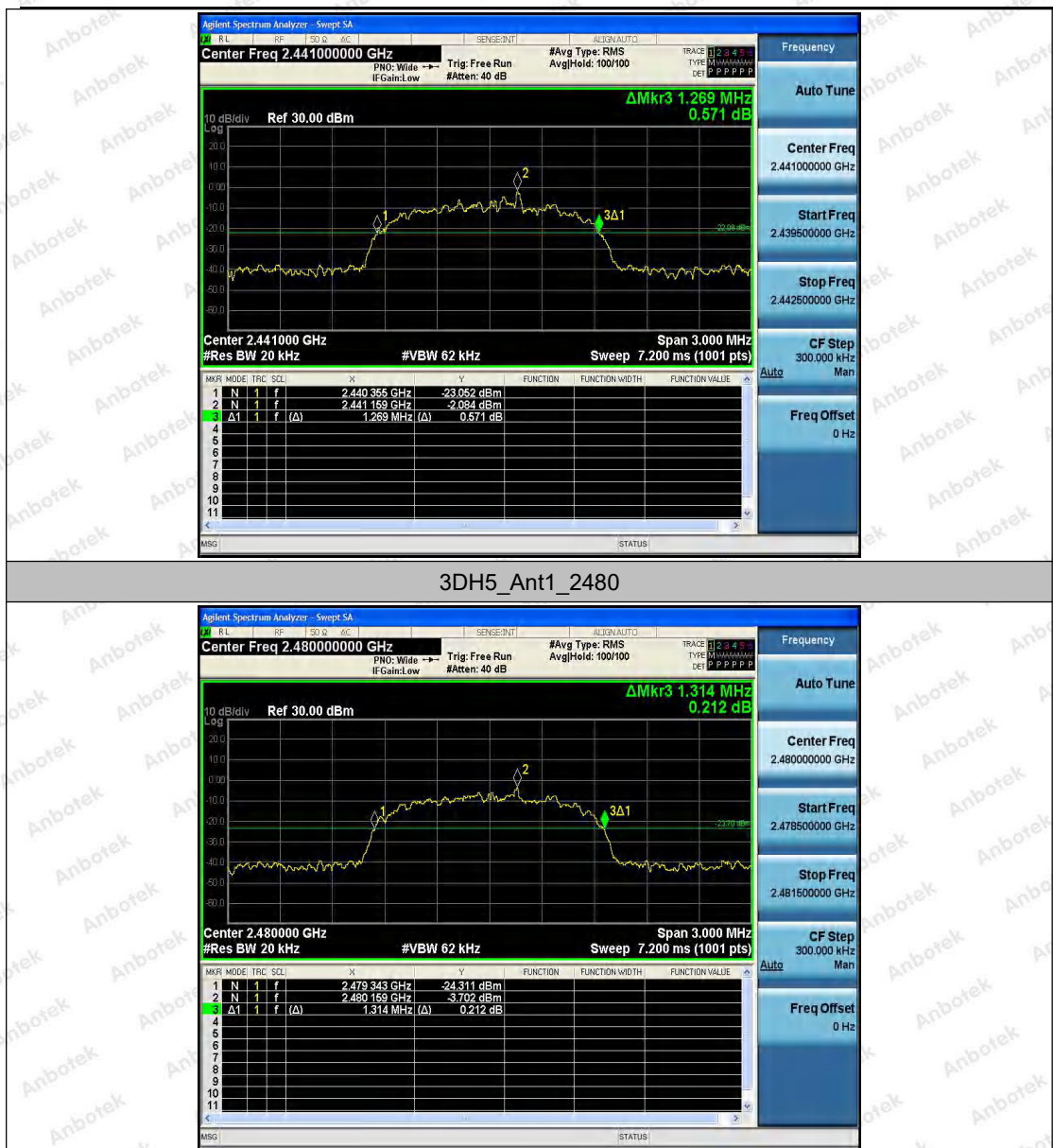
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88672	2401.559	2402.446	---	PASS
		2441	0.88607	2440.558	2441.444	---	PASS
		2480	0.88602	2479.557	2480.443	---	PASS
2DH5	Ant1	2402	1.1955	2401.402	2402.597	---	PASS
		2441	1.1953	2440.403	2441.598	---	PASS
		2480	1.1921	2479.403	2480.595	---	PASS
3DH5	Ant1	2402	1.2152	2401.383	2402.598	---	PASS
		2441	1.2054	2440.389	2441.594	---	PASS
		2480	1.2018	2479.391	2480.593	---	PASS

Test Graphs



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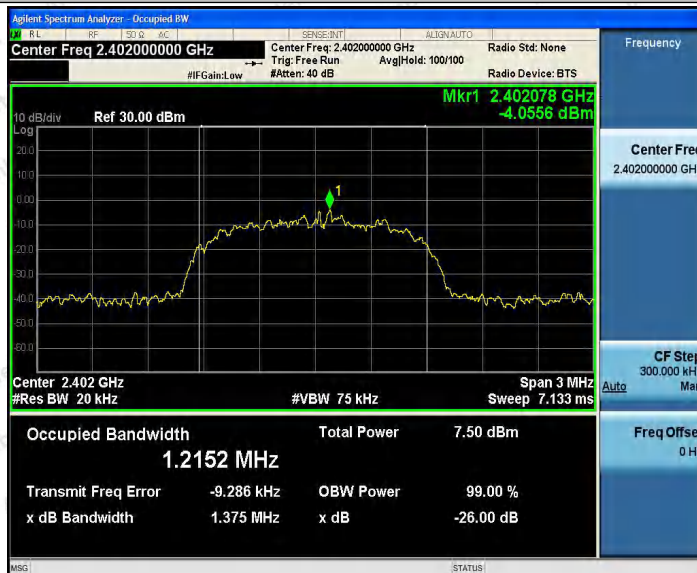
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2DH5_Ant1_2480



3DH5_Ant1_2402



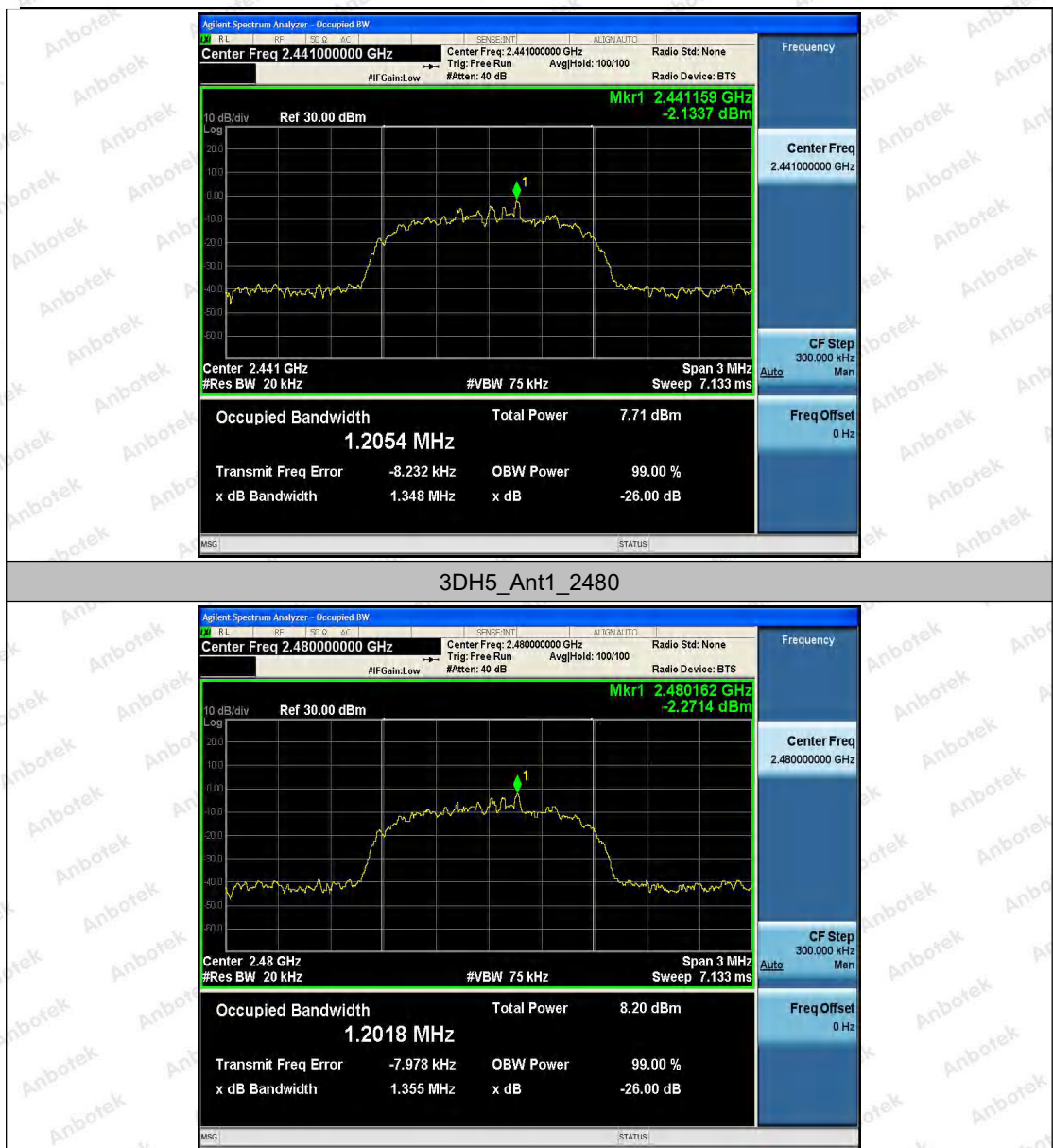
3DH5_Ant1_2441

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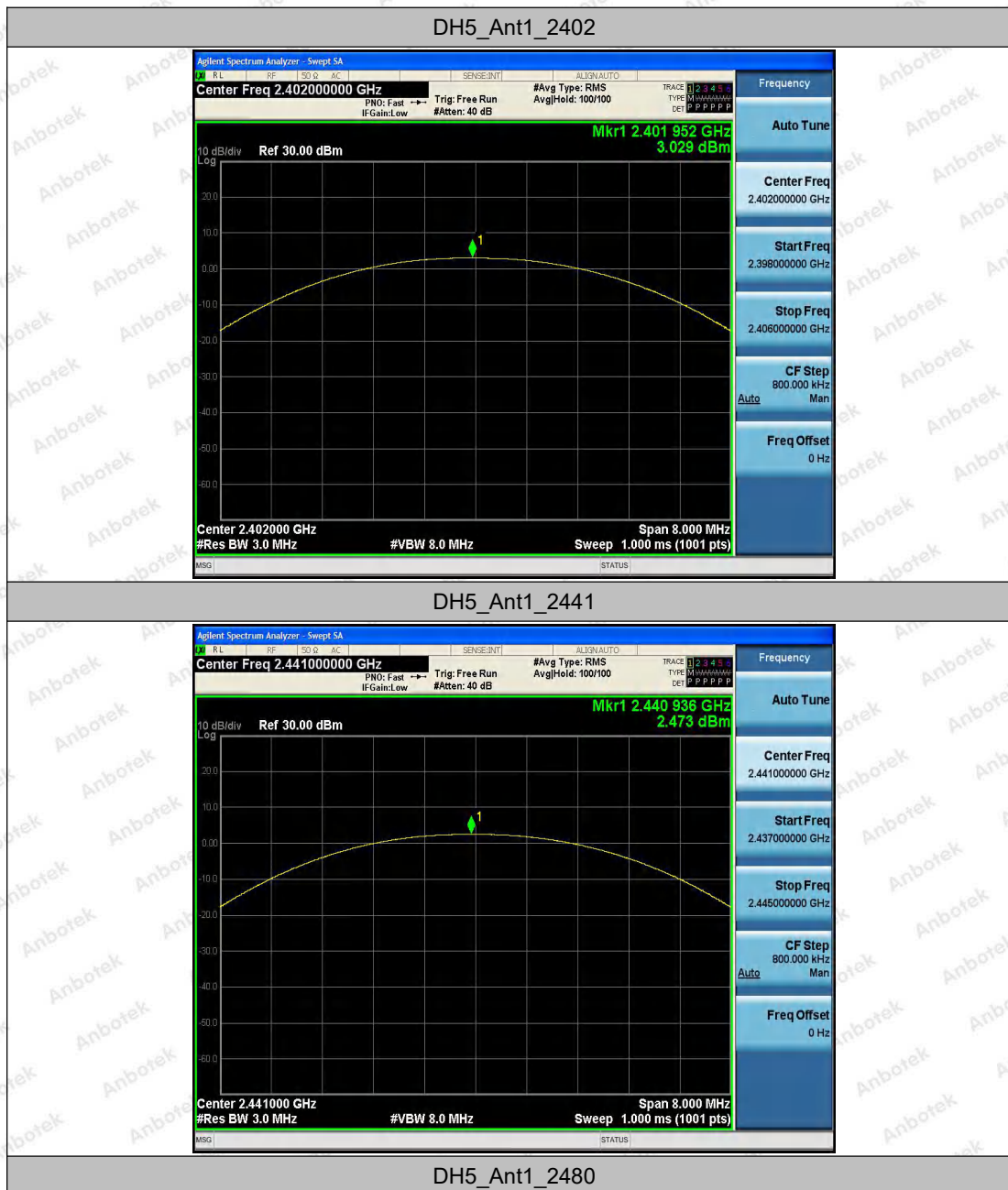
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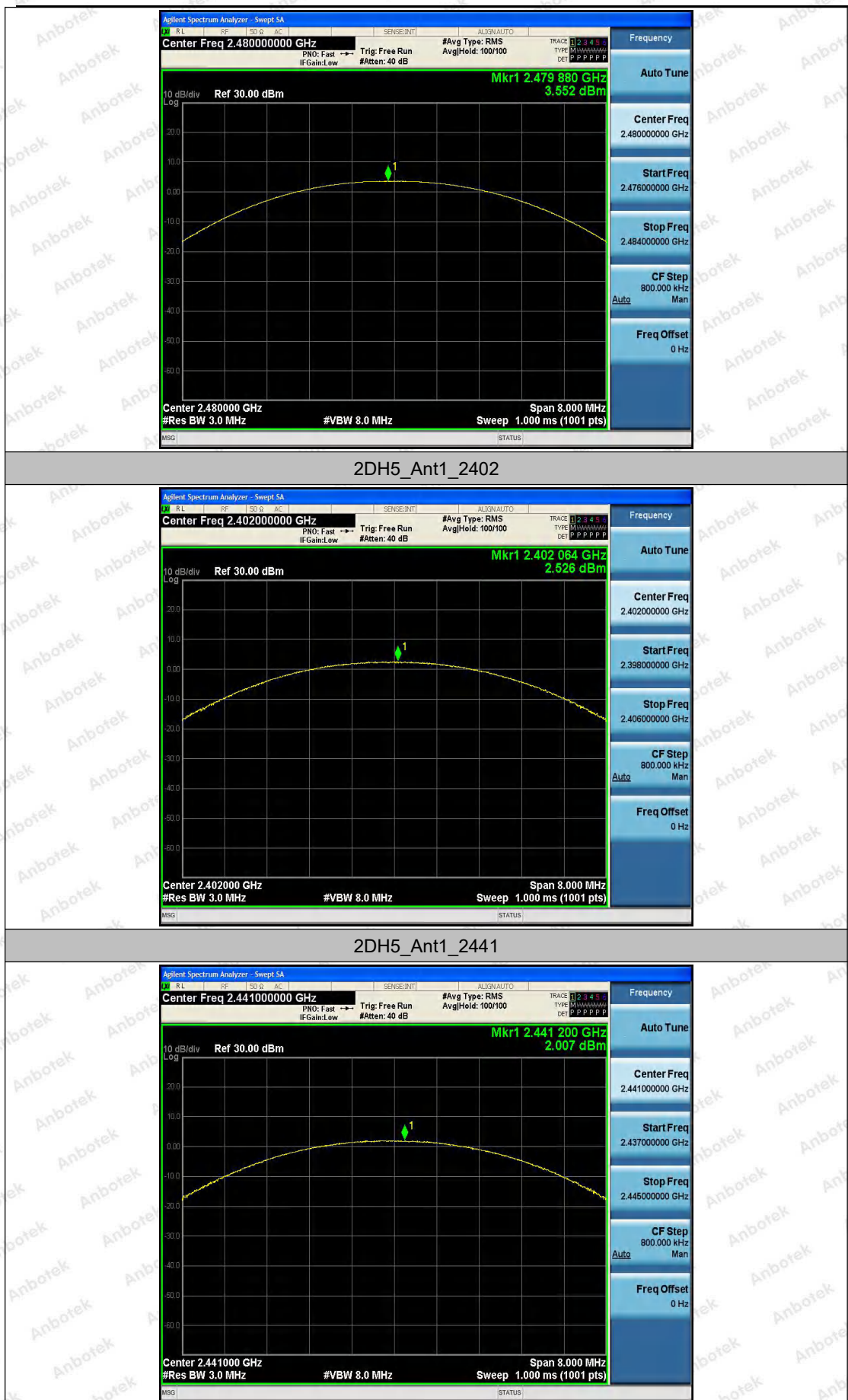
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.03	≤30	PASS
		2441	2.47	≤30	PASS
		2480	3.55	≤30	PASS
2DH5	Ant1	2402	2.53	≤20.97	PASS
		2441	2.01	≤20.97	PASS
		2480	2.79	≤20.97	PASS
3DH5	Ant1	2402	2.73	≤20.97	PASS
		2441	2.18	≤20.97	PASS
		2480	3.02	≤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	0.834	≥ 0.632	PASS
2DH5	Ant1	Hop	0.956	≥ 0.884	PASS
3DH5	Ant1	Hop	0.986	≥ 0.876	PASS

Test Graphs





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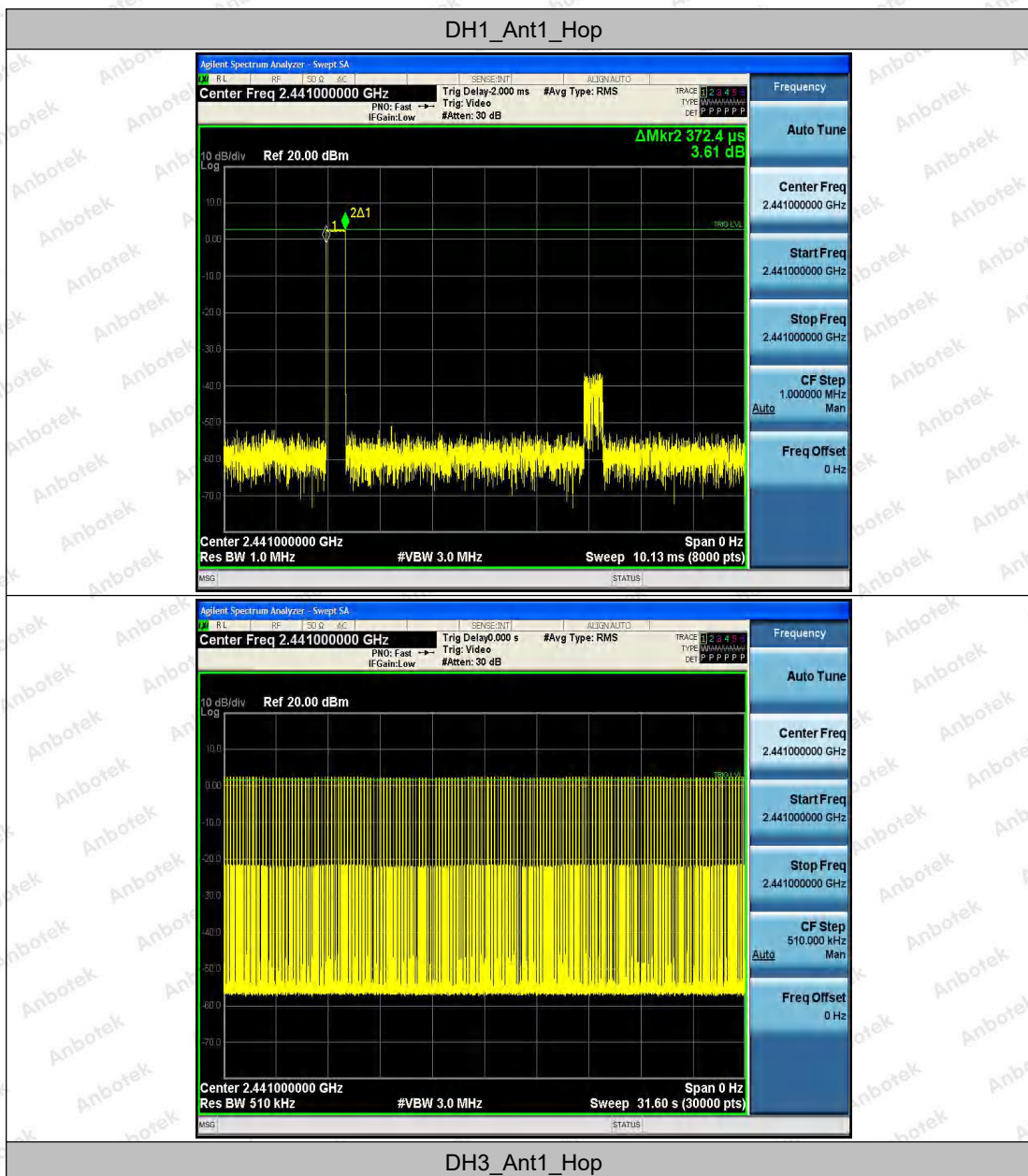
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Appendix E: Time of occupancy

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	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	166	0.271	≤0.4	PASS
2DH5	Ant1	Hop	2.88	108	0.311	≤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	114	0.329	≤0.4	PASS

Test Graphs





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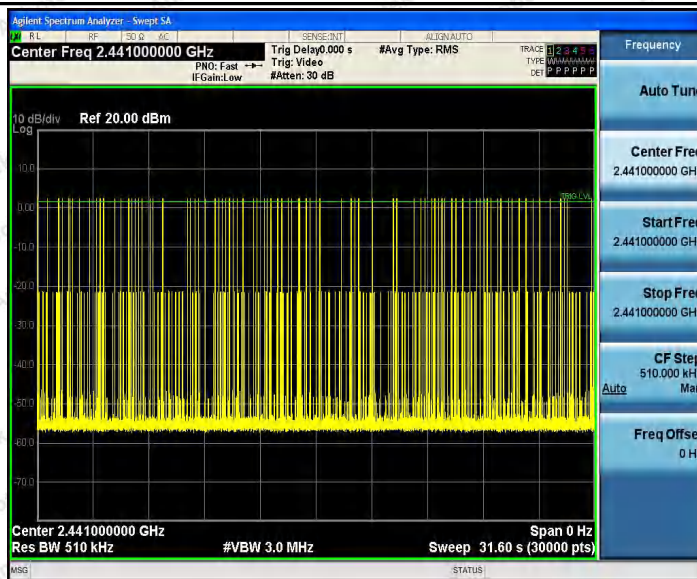
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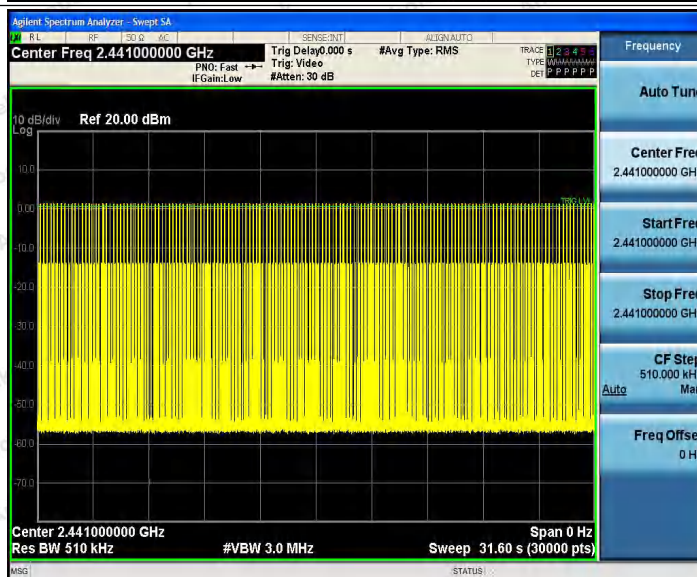
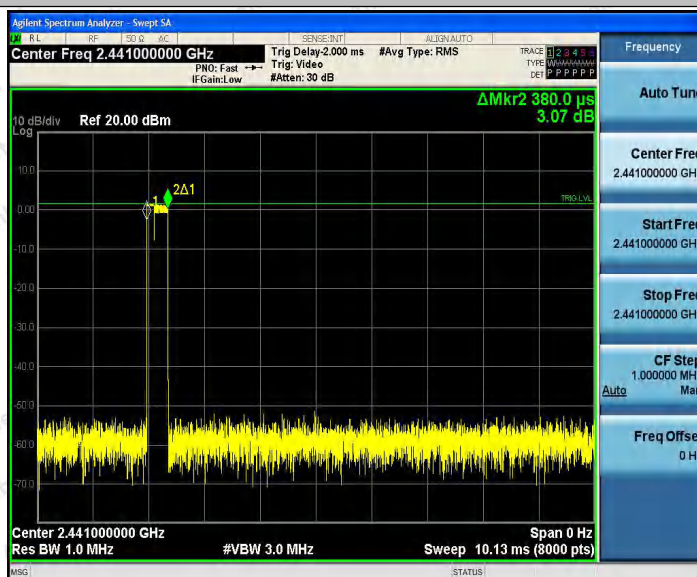
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

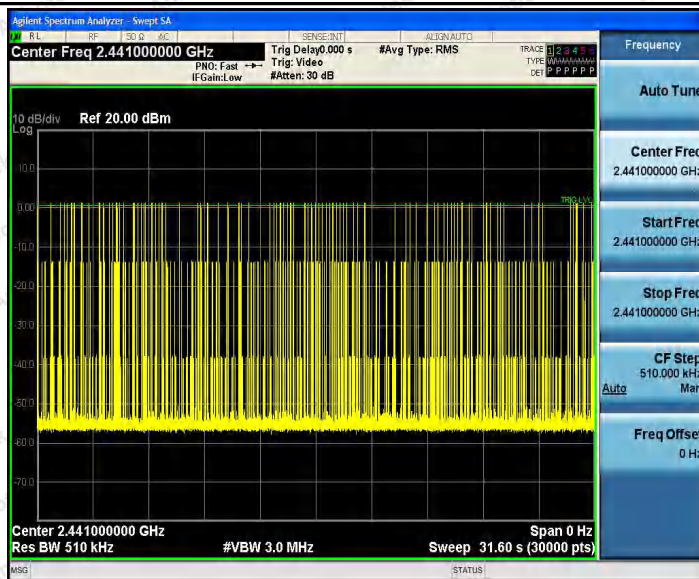
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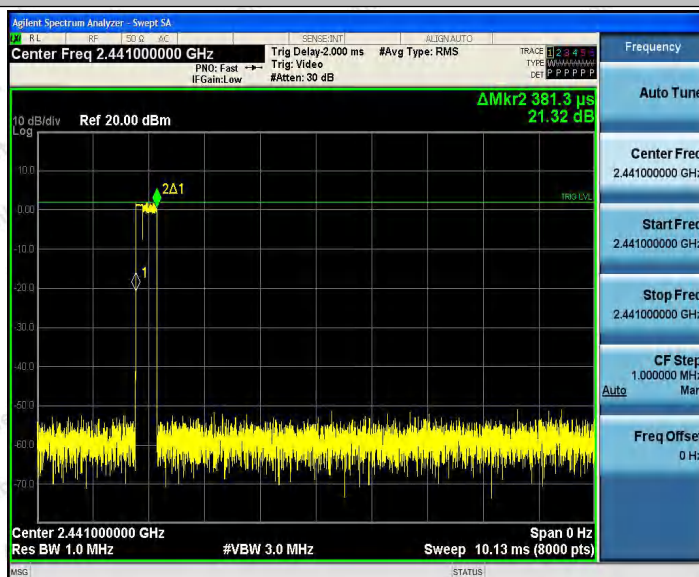
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3DH1_Ant1_Hop



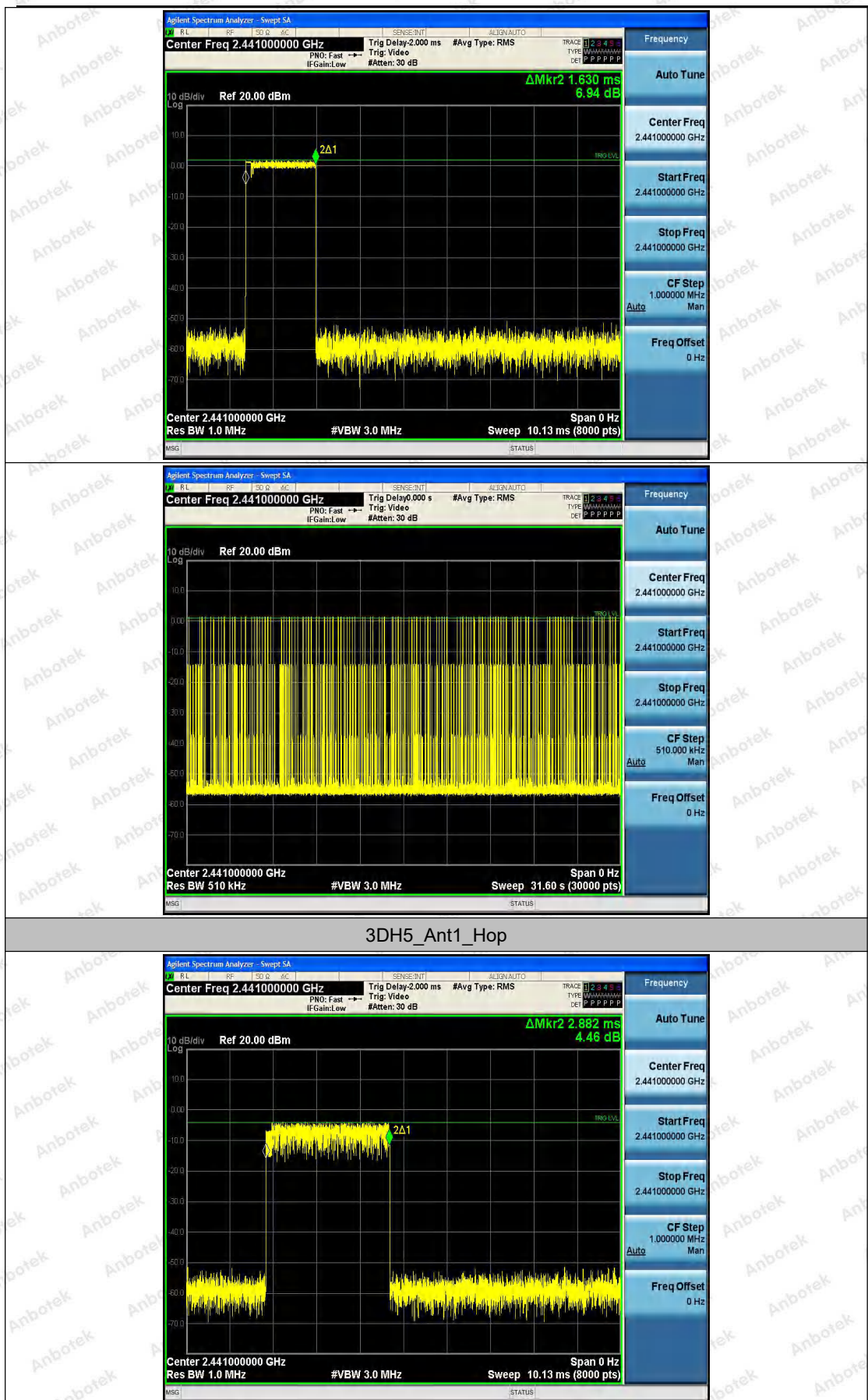
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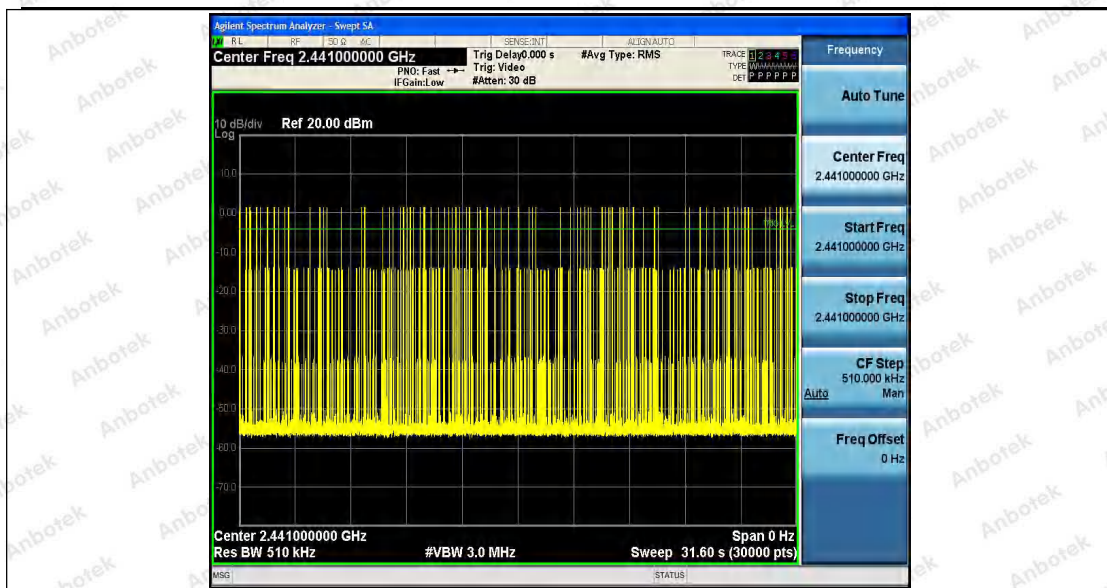
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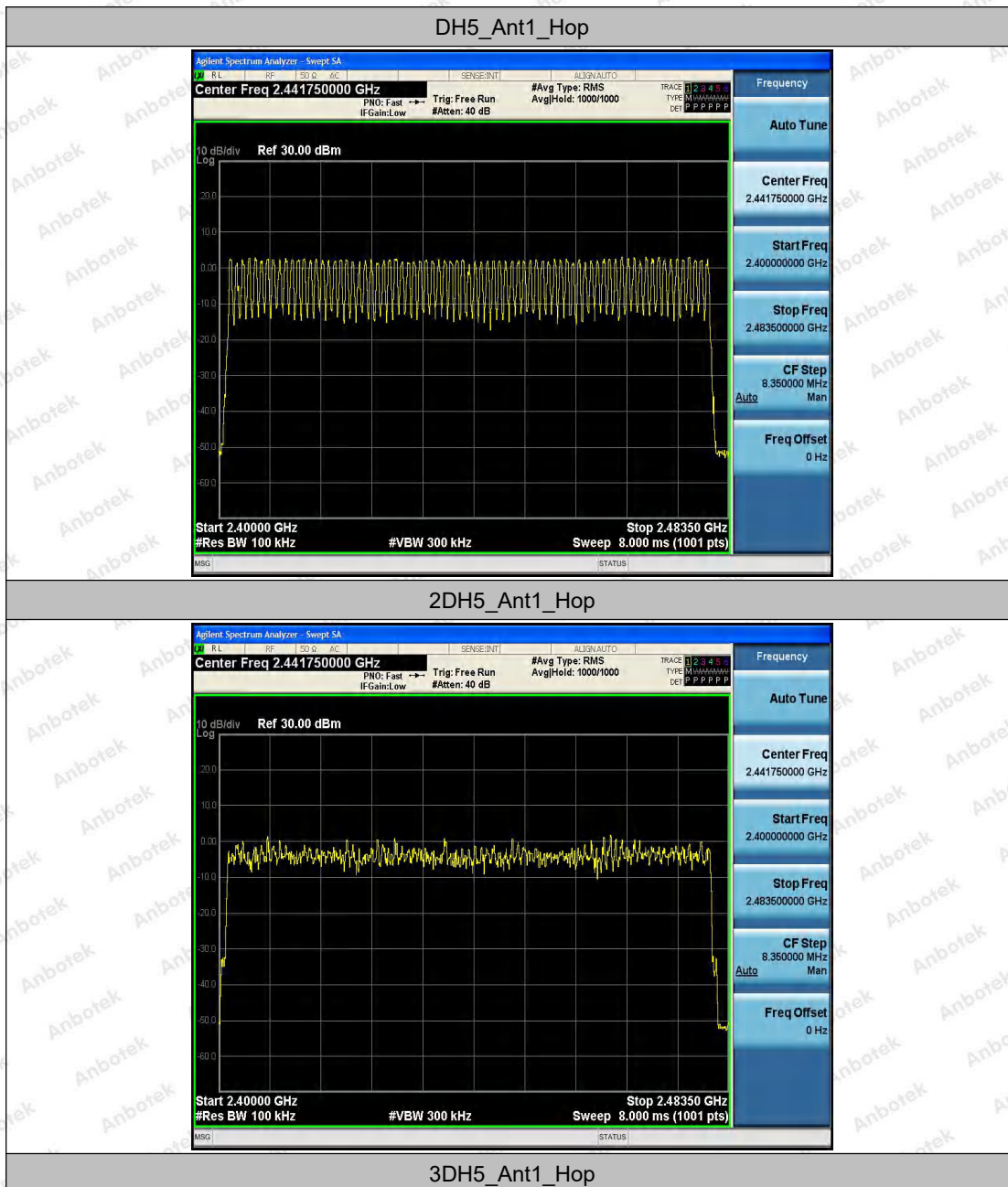
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Appendix F: Number of hopping channels

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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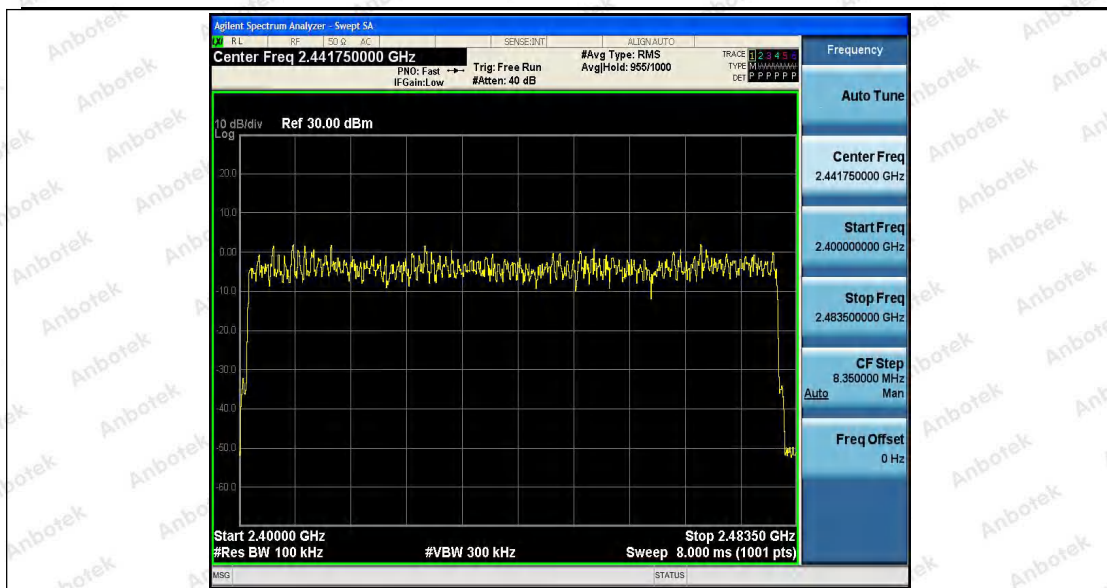
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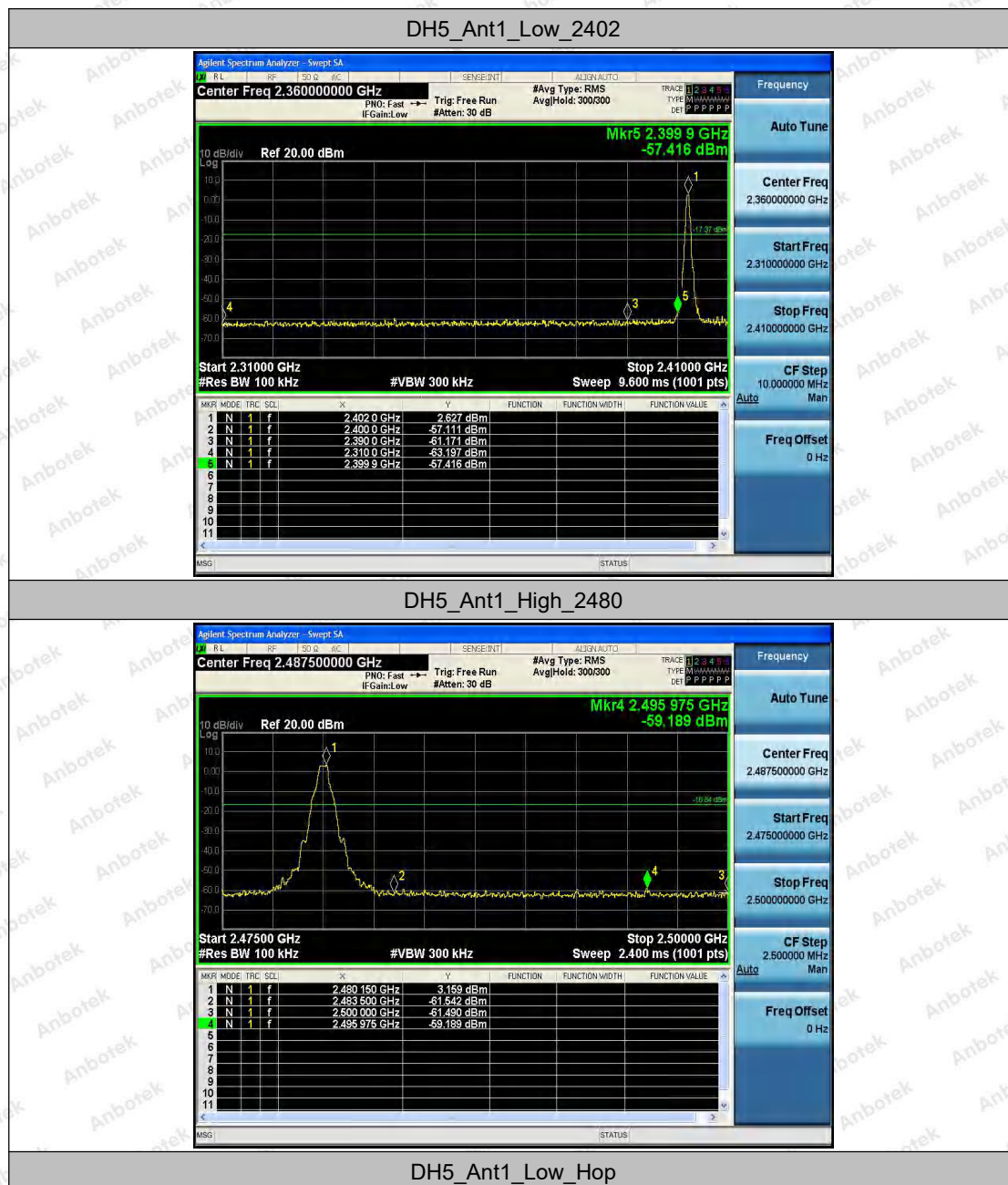
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Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.63	-57.42	≤ -17.37	PASS
		High	2480	3.16	-59.19	≤ -16.84	PASS
		Low	Hop	2.74	-59.93	≤ -17.26	PASS
		High	Hop	3.16	-62.36	≤ -16.84	PASS
2DH5	Ant1	Low	2402	1.48	-54.75	≤ -18.52	PASS
		High	2480	1.53	-58.87	≤ -18.48	PASS
		Low	Hop	-1.17	-60.64	≤ -21.17	PASS
		High	Hop	1.78	-62.33	≤ -18.22	PASS
3DH5	Ant1	Low	2402	1.88	-54.74	≤ -18.12	PASS
		High	2480	2.18	-59.7	≤ -17.83	PASS
		Low	Hop	-0.70	-60.01	≤ -20.7	PASS
		High	Hop	-1.35	-61.58	≤ -21.35	PASS

Test Graphs

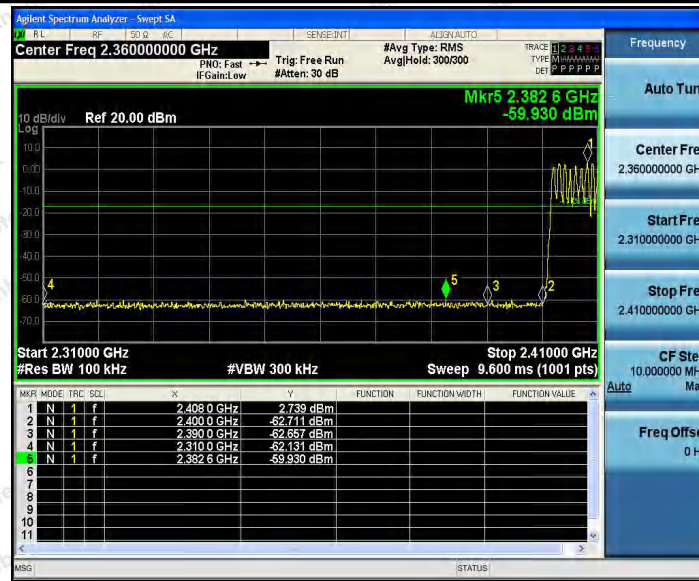


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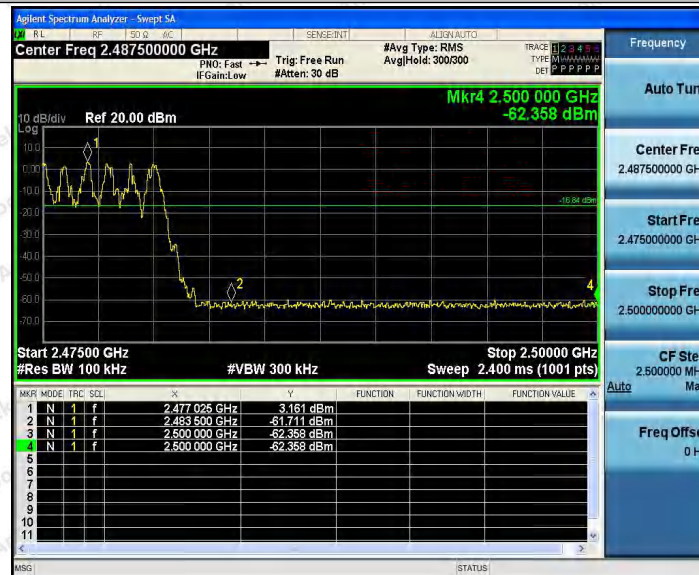
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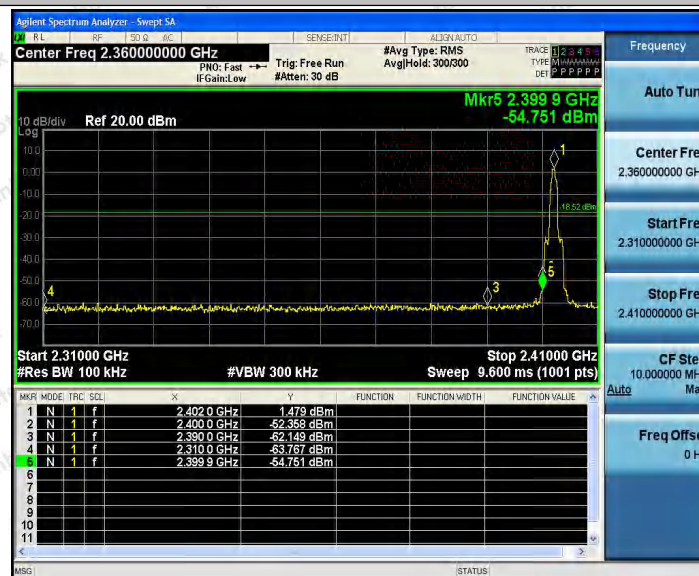
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



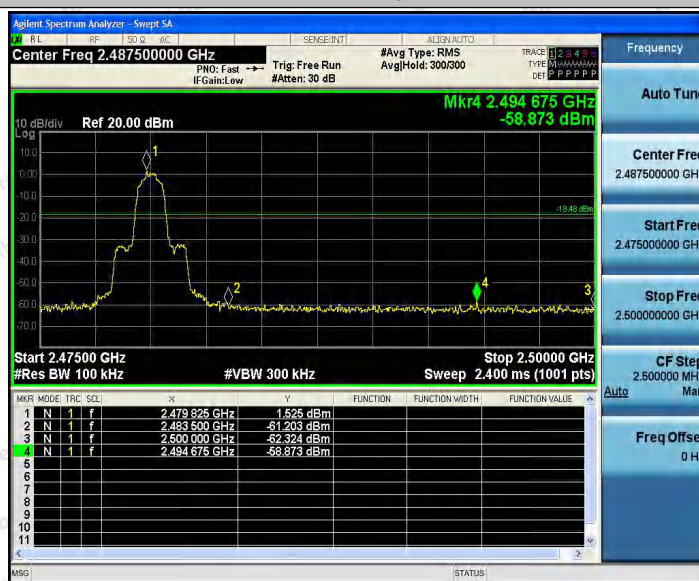
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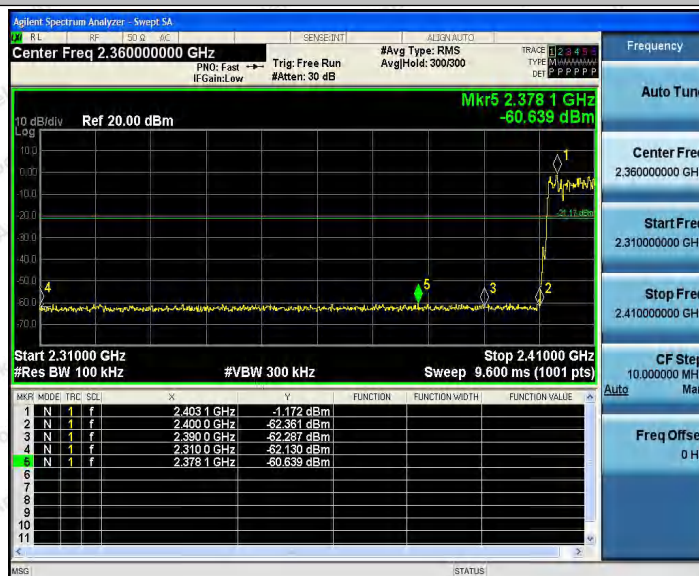
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



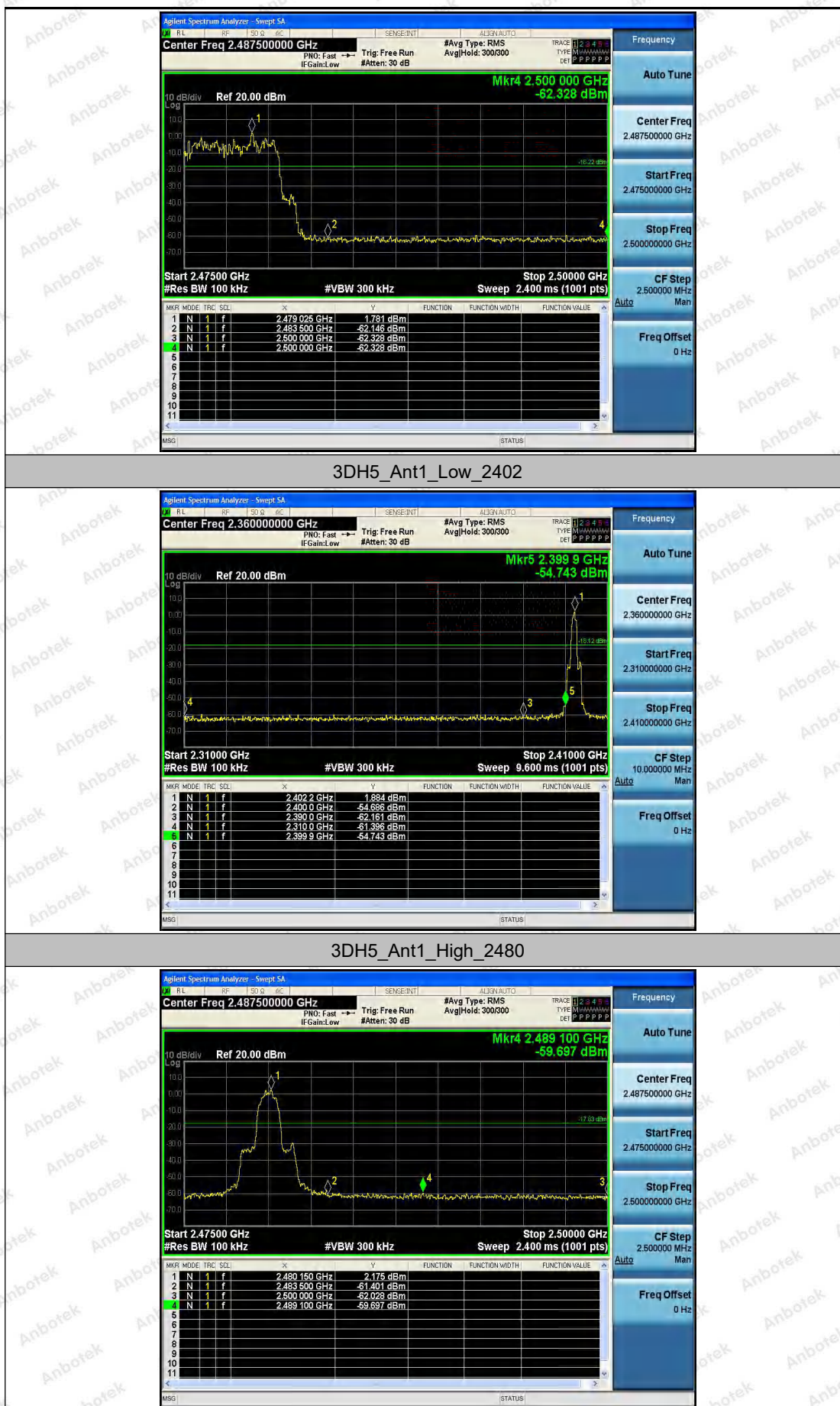
2DH5_Ant1_High_Hop

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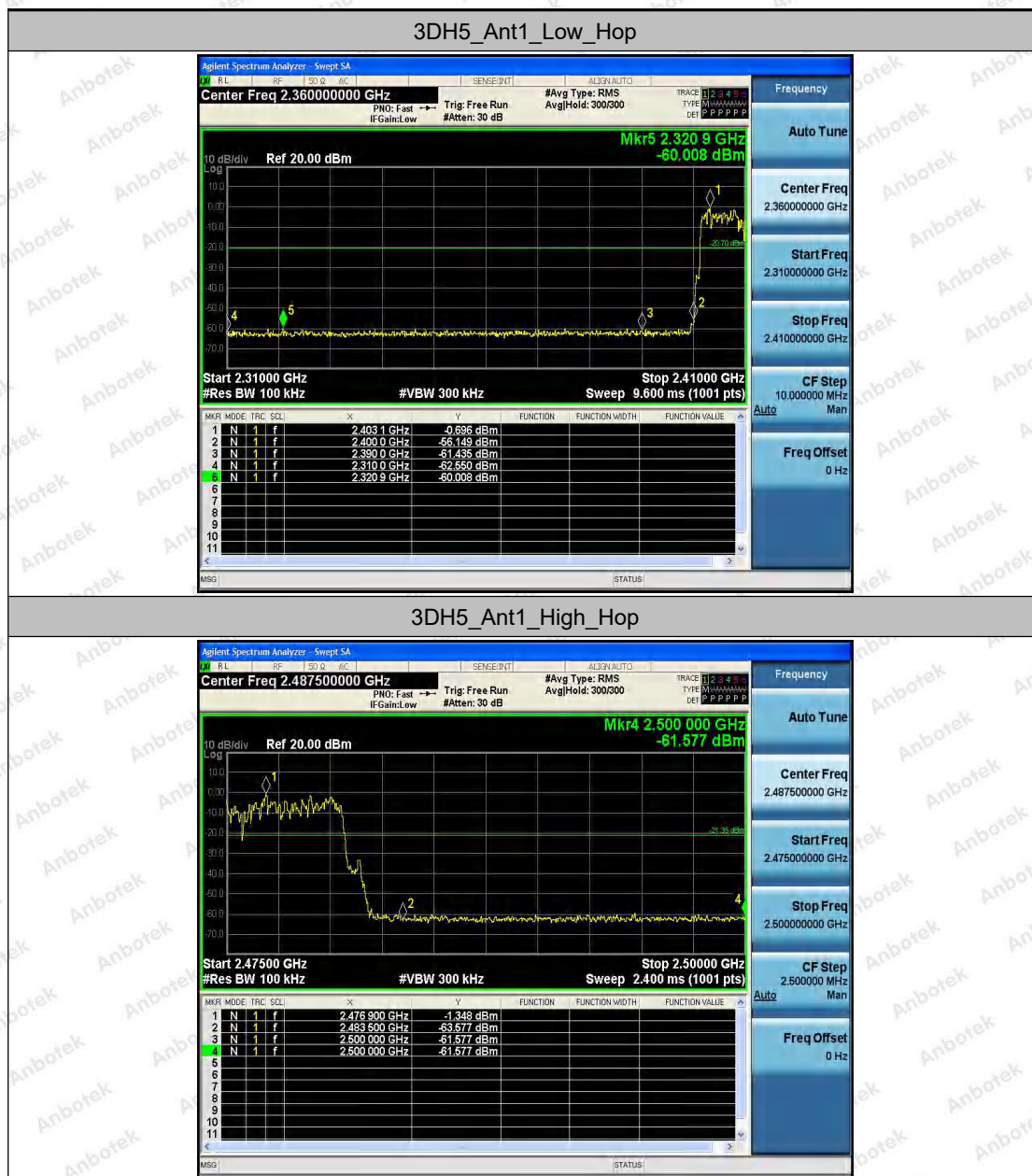


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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.47	2.47	---	PASS
			30~1000	2.47	-70.8	≤ -17.53	PASS
			1000~26500	2.47	-55.49	≤ -17.53	PASS
		2441	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-65.51	≤ -17.78	PASS
			1000~26500	2.22	-56.29	≤ -17.78	PASS
		2480	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-63.99	≤ -17.44	PASS
			1000~26500	2.56	-56.41	≤ -17.44	PASS
2DH5	Ant1	2402	Reference	0.77	0.77	---	PASS
			30~1000	0.77	-64.77	≤ -19.23	PASS
			1000~26500	0.77	-55.7	≤ -19.23	PASS
		2441	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-70.14	≤ -19.2	PASS
			1000~26500	0.80	-55.9	≤ -19.2	PASS
		2480	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-70.18	≤ -18.1	PASS
			1000~26500	1.90	-55.25	≤ -18.1	PASS
3DH5	Ant1	2402	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-70.23	≤ -18.82	PASS
			1000~26500	1.18	-55.47	≤ -18.82	PASS
		2441	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-70.26	≤ -19.64	PASS
			1000~26500	0.36	-55.37	≤ -19.64	PASS
		2480	Reference	1.38	1.38	---	PASS
			30~1000	1.38	-70.58	≤ -18.62	PASS
			1000~26500	1.38	-55.66	≤ -18.62	PASS

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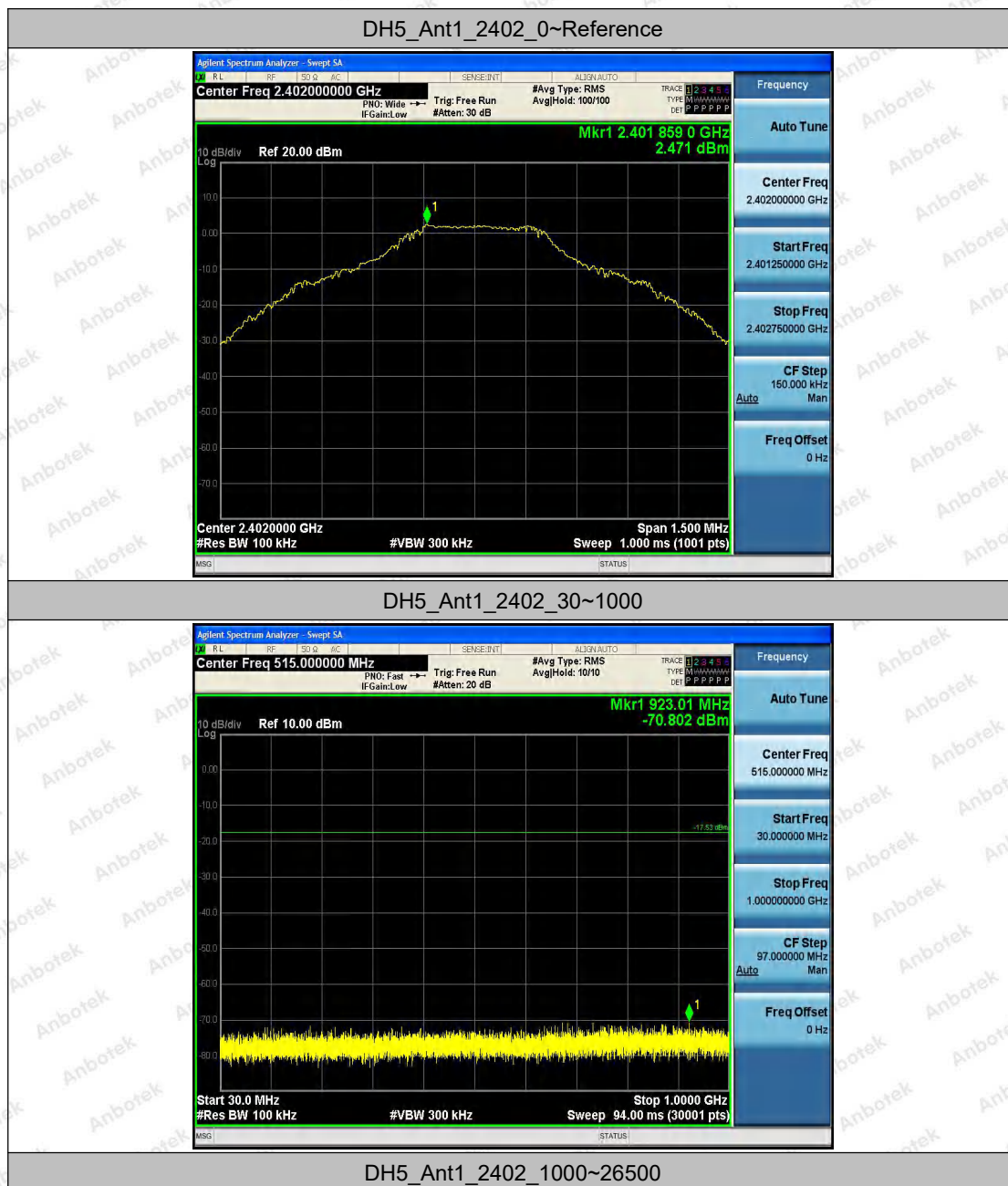


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Test Graphs



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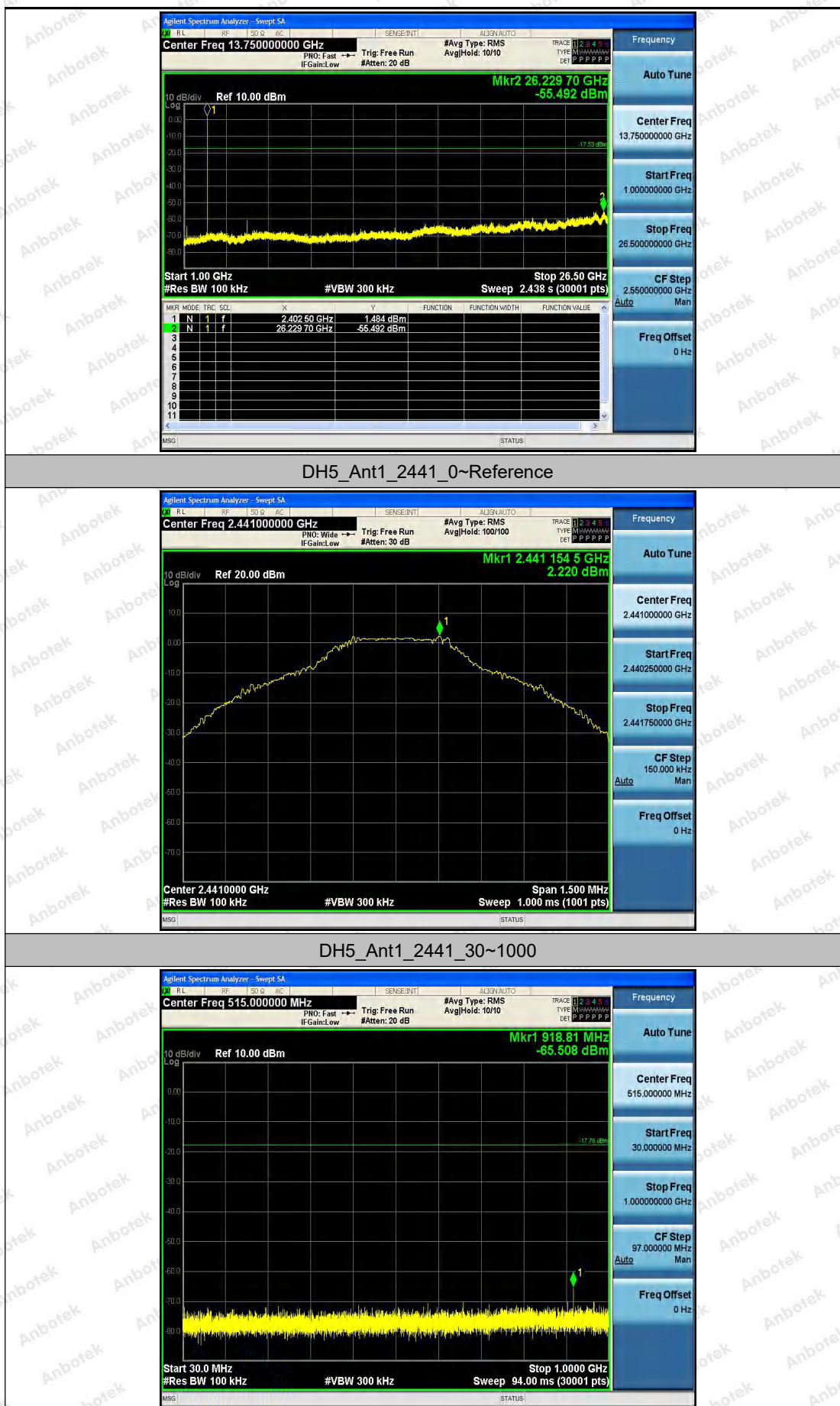
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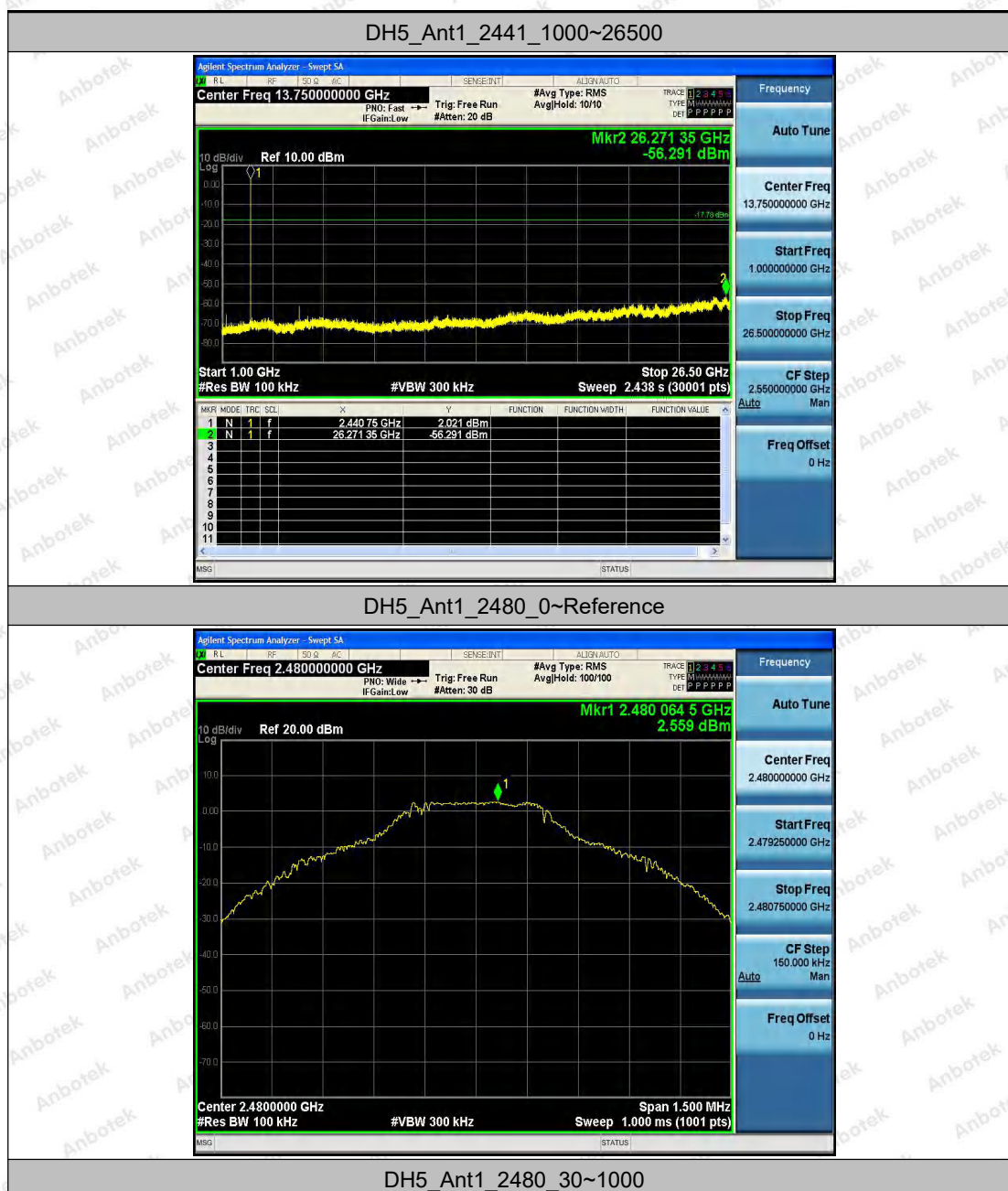


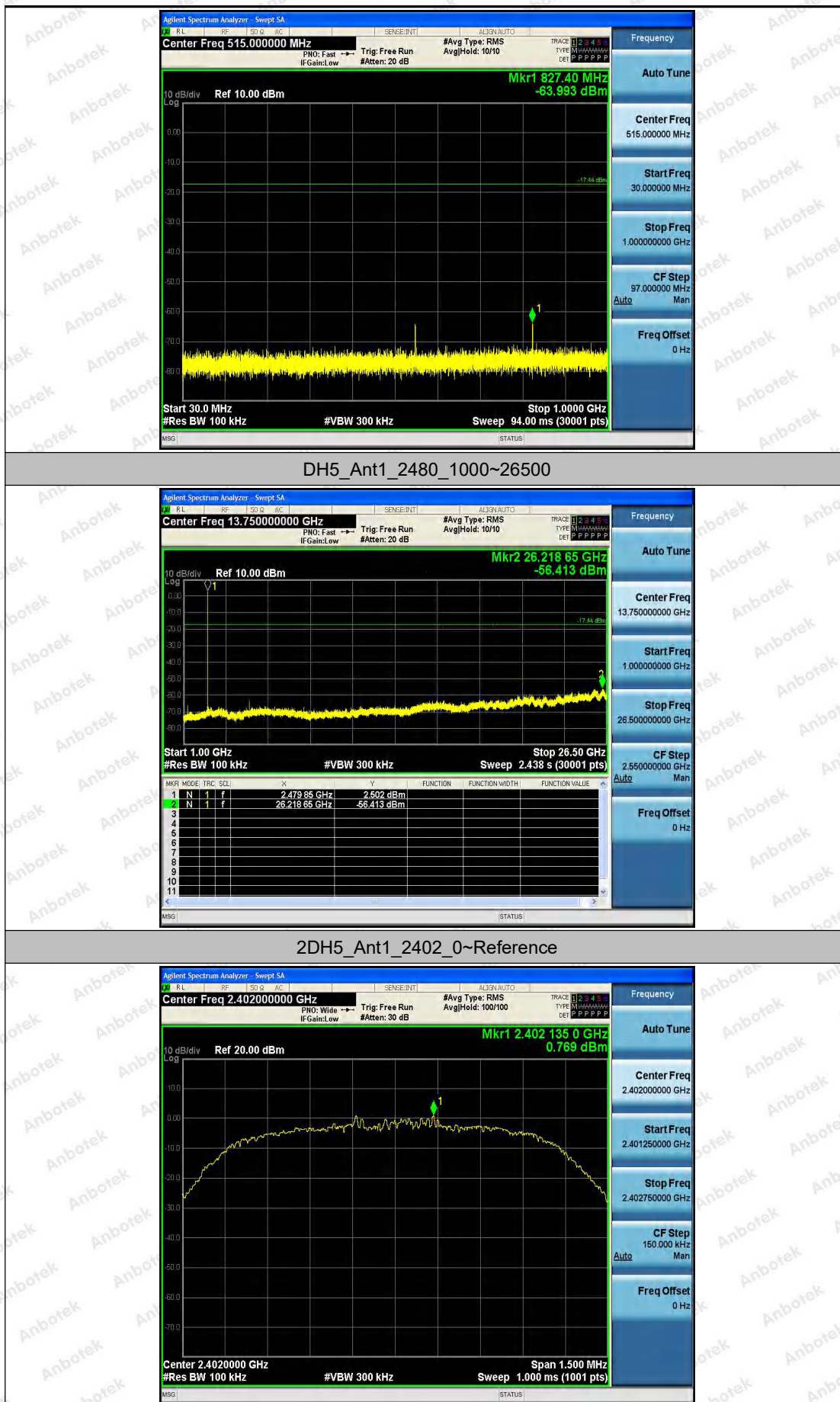
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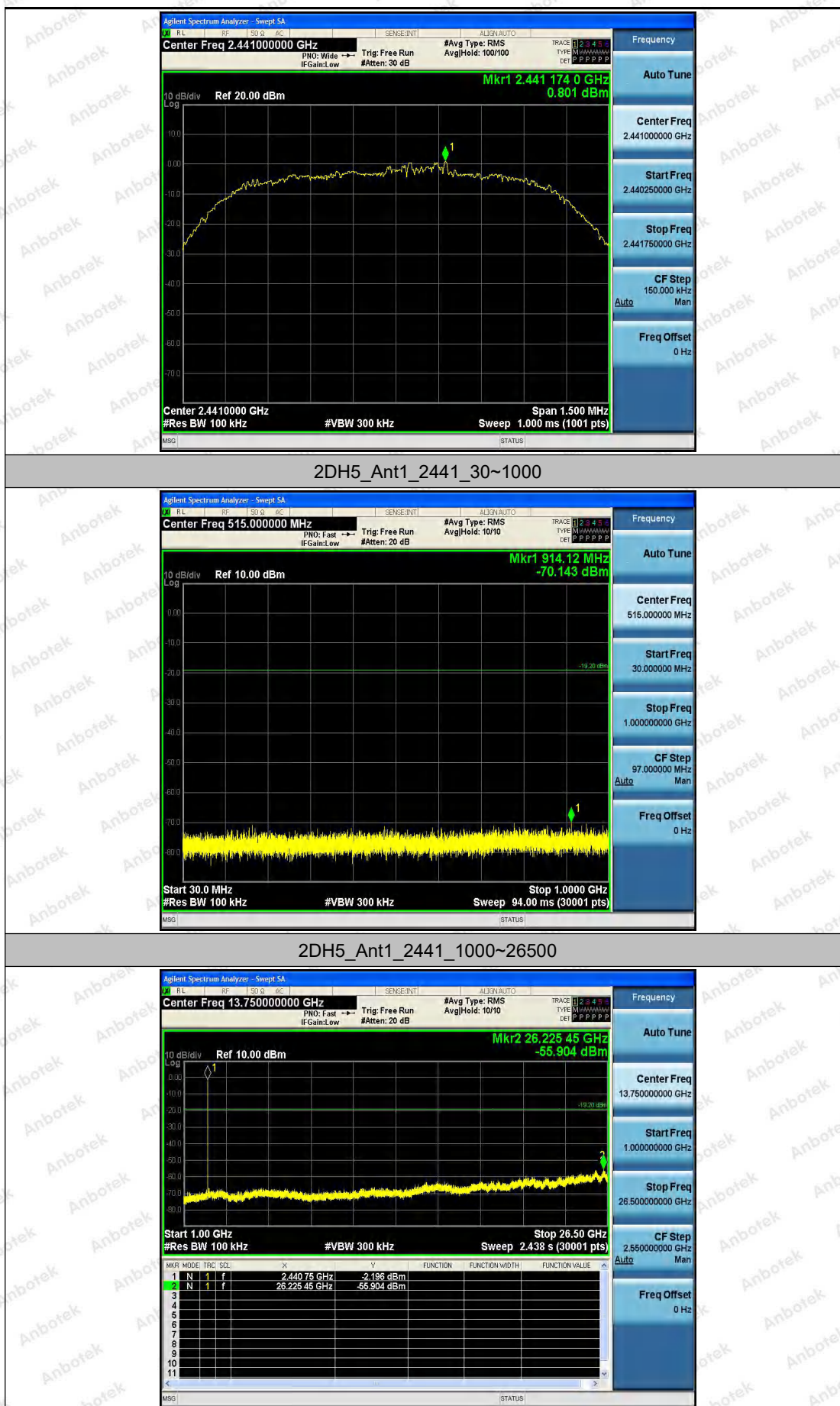
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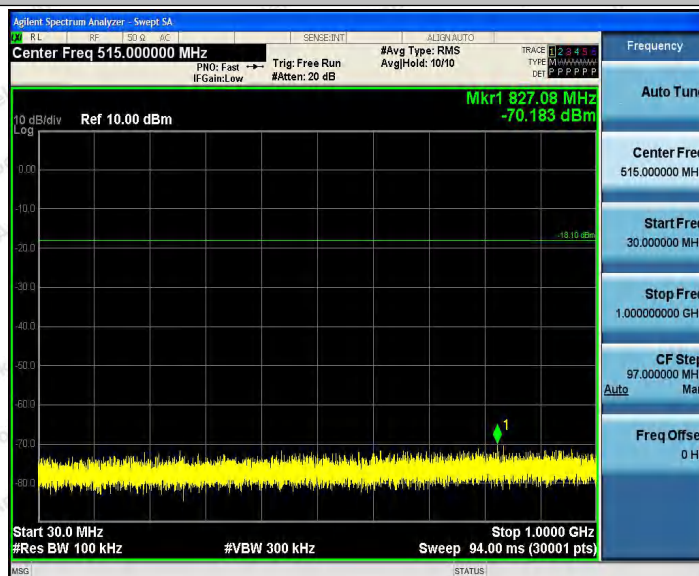
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



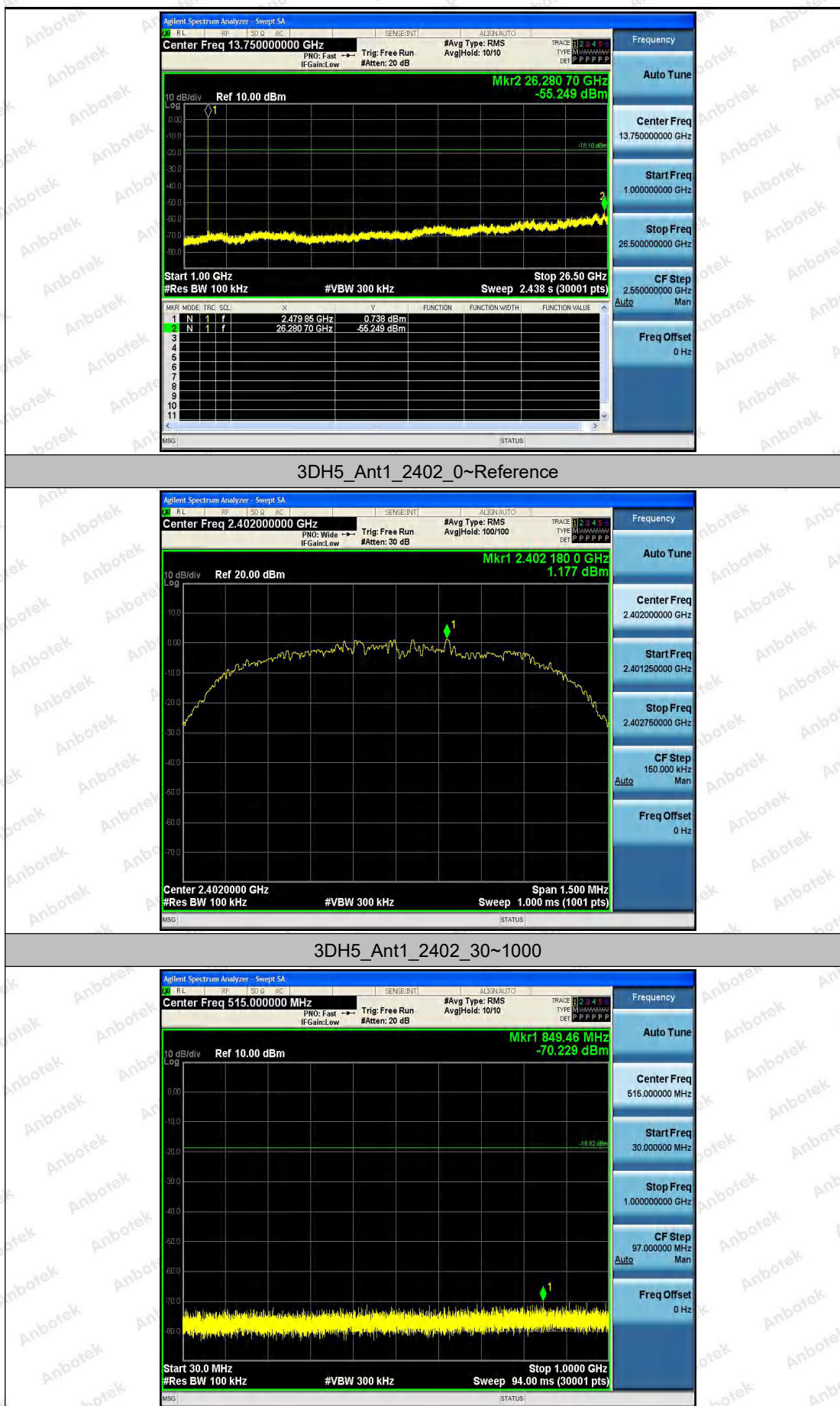
2DH5_Ant1_2480_1000~26500

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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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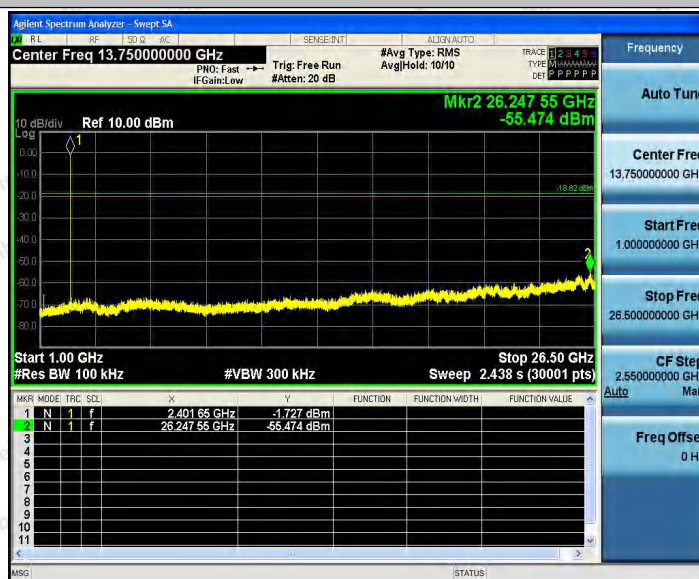
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



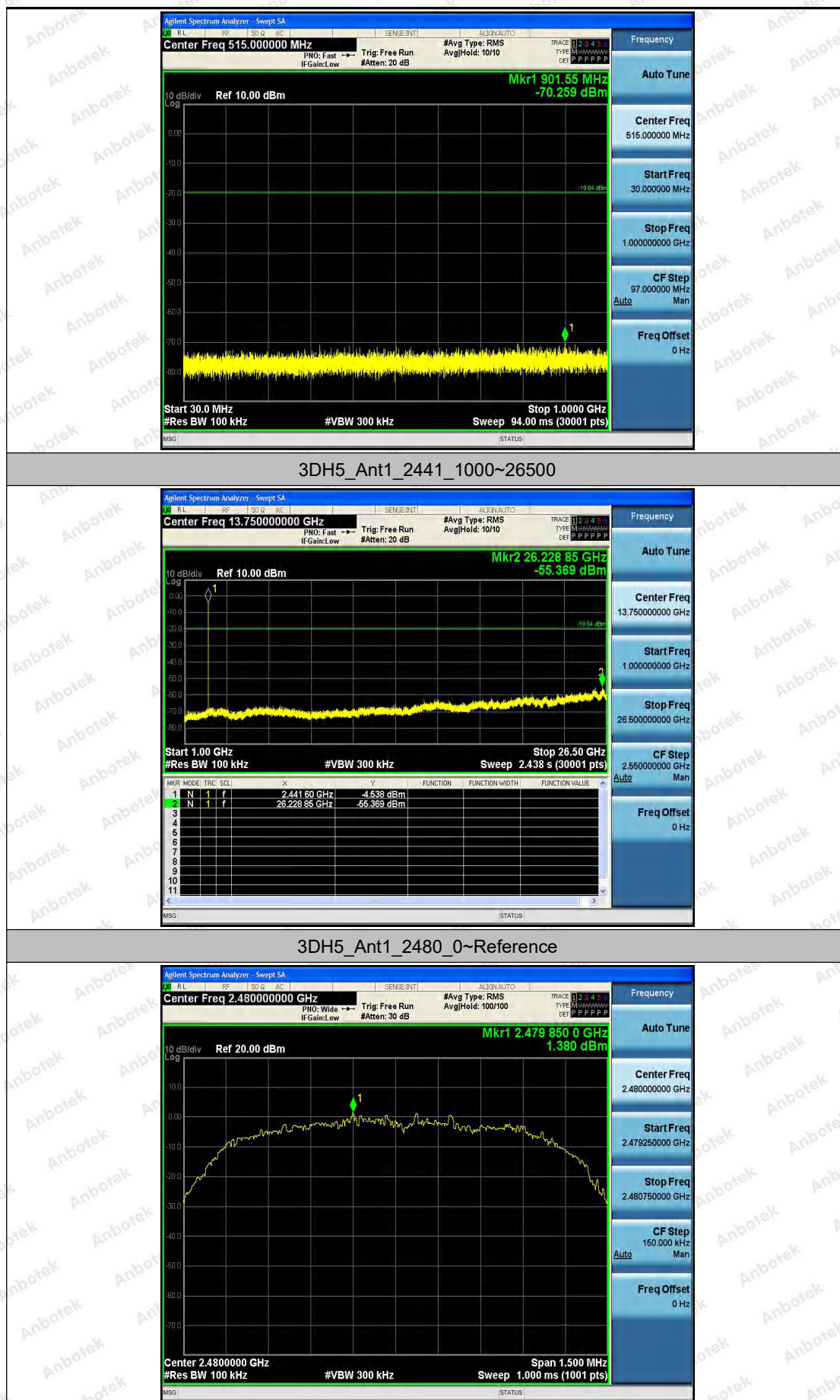
3DH5_Ant1_2441_30~1000

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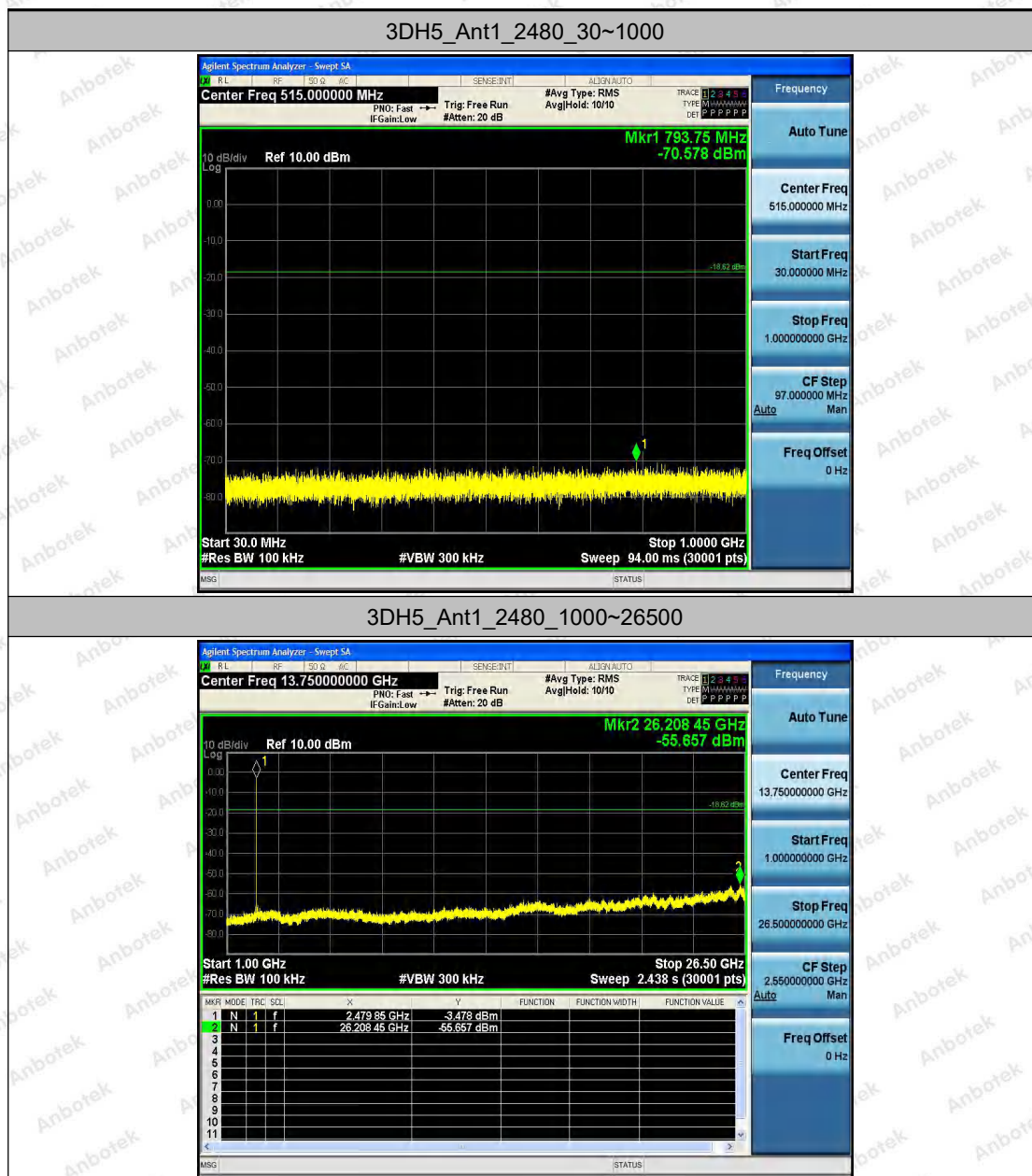


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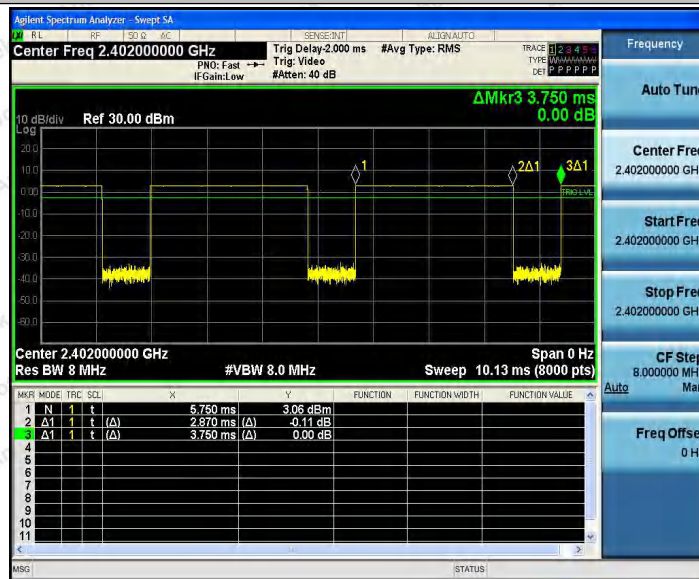
Appendix I: Duty Cycle

Test Result

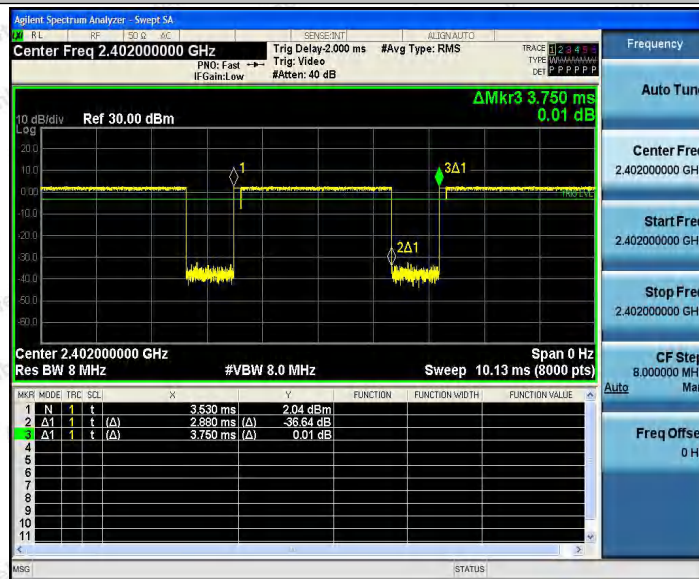
Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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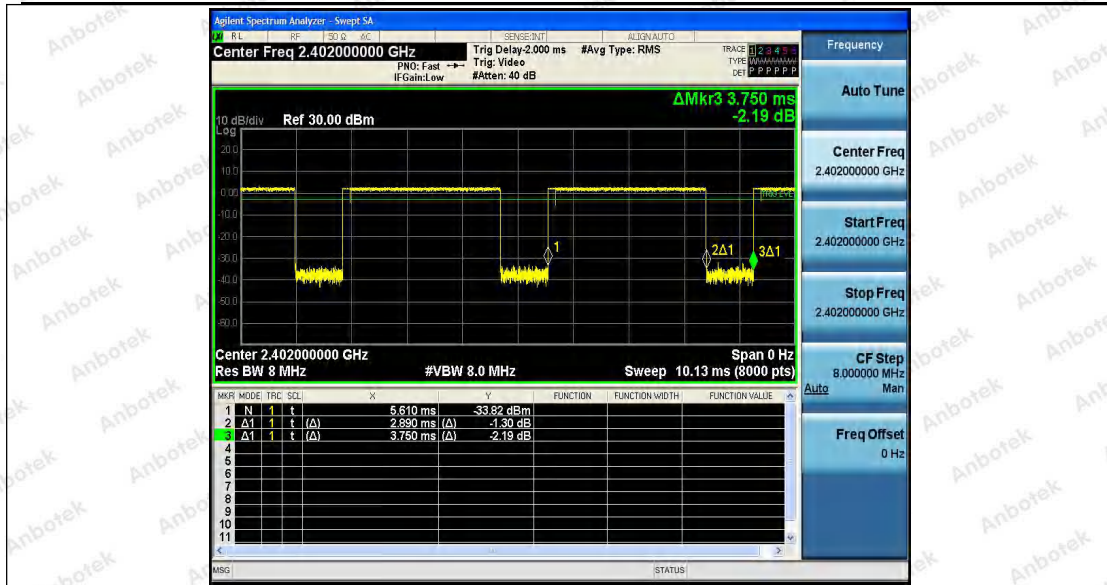
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