

Appendix Test Data

Report No.:	18220WC20050101	Test Sample No.:	1-2-2
Start Test Date:	2022.3.22	Finish Test Date:	2022.3.25
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	0.945	2401.535	2402.480	---	PASS
		2441	0.939	2440.547	2441.486	---	PASS
		2480	0.936	2479.538	2480.474	---	PASS
2DH5	Ant1	2402	1.317	2401.337	2402.654	---	PASS
		2441	1.329	2440.337	2441.666	---	PASS
		2480	1.326	2479.334	2480.660	---	PASS
3DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.341	2440.325	2441.666	---	PASS
		2480	1.311	2479.343	2480.654	---	PASS

Test Graphs

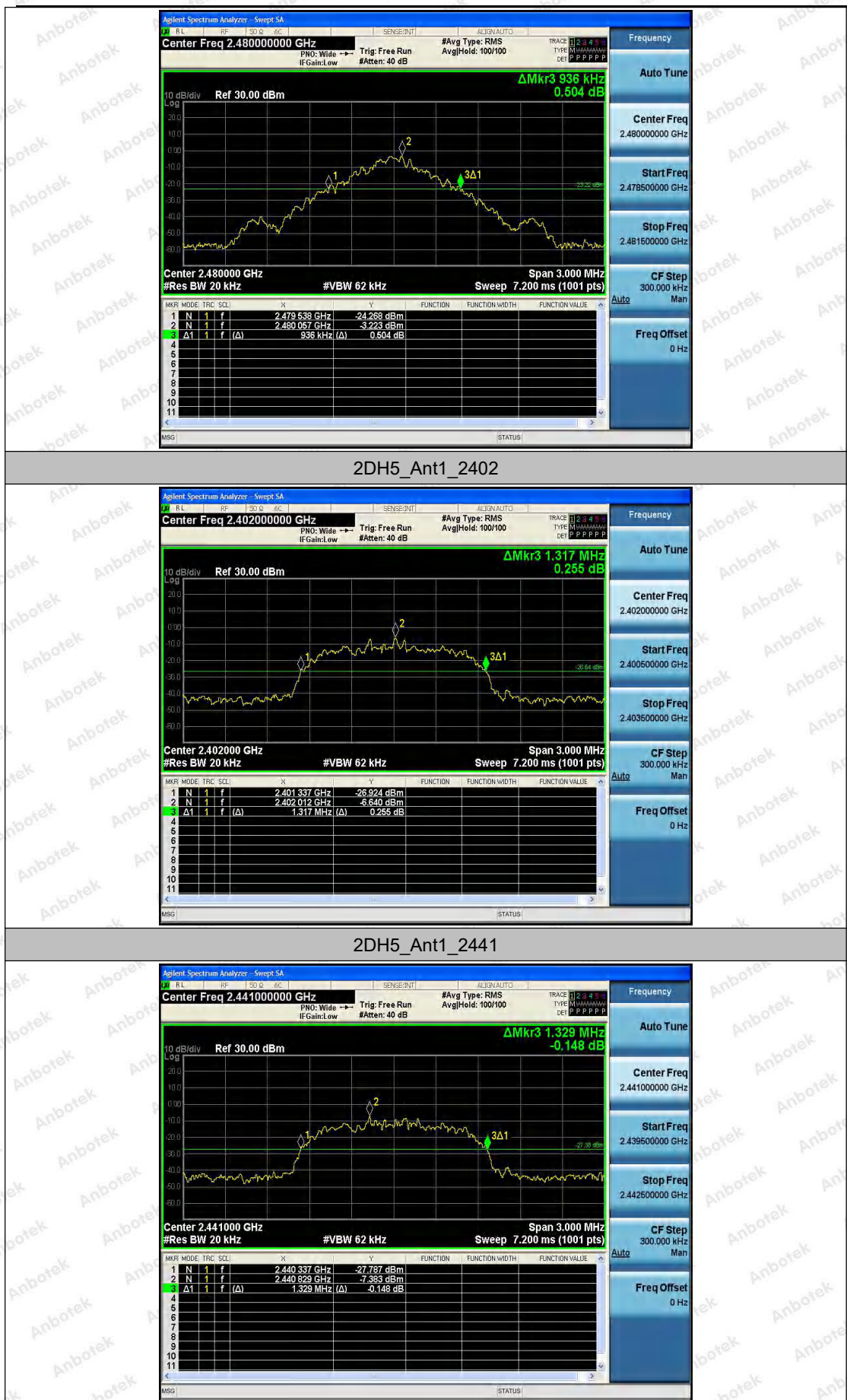
DH5_Ant1_2402



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	0.88753	2401.556	2402.444	---	PASS
		2441	0.89310	2440.554	2441.447	---	PASS
		2480	0.89041	2479.554	2480.444	---	PASS
2DH5	Ant1	2402	1.1978	2401.402	2402.599	---	PASS
		2441	1.1972	2440.400	2441.598	---	PASS
		2480	1.1944	2479.402	2480.597	---	PASS
3DH5	Ant1	2402	1.2170	2401.381	2402.598	---	PASS
		2441	1.2074	2440.387	2441.594	---	PASS
		2480	1.2007	2479.392	2480.592	---	PASS

Test Graphs



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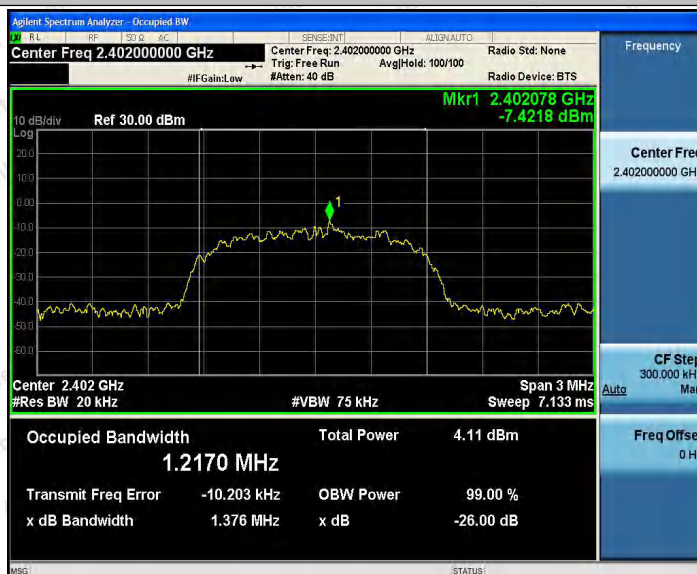
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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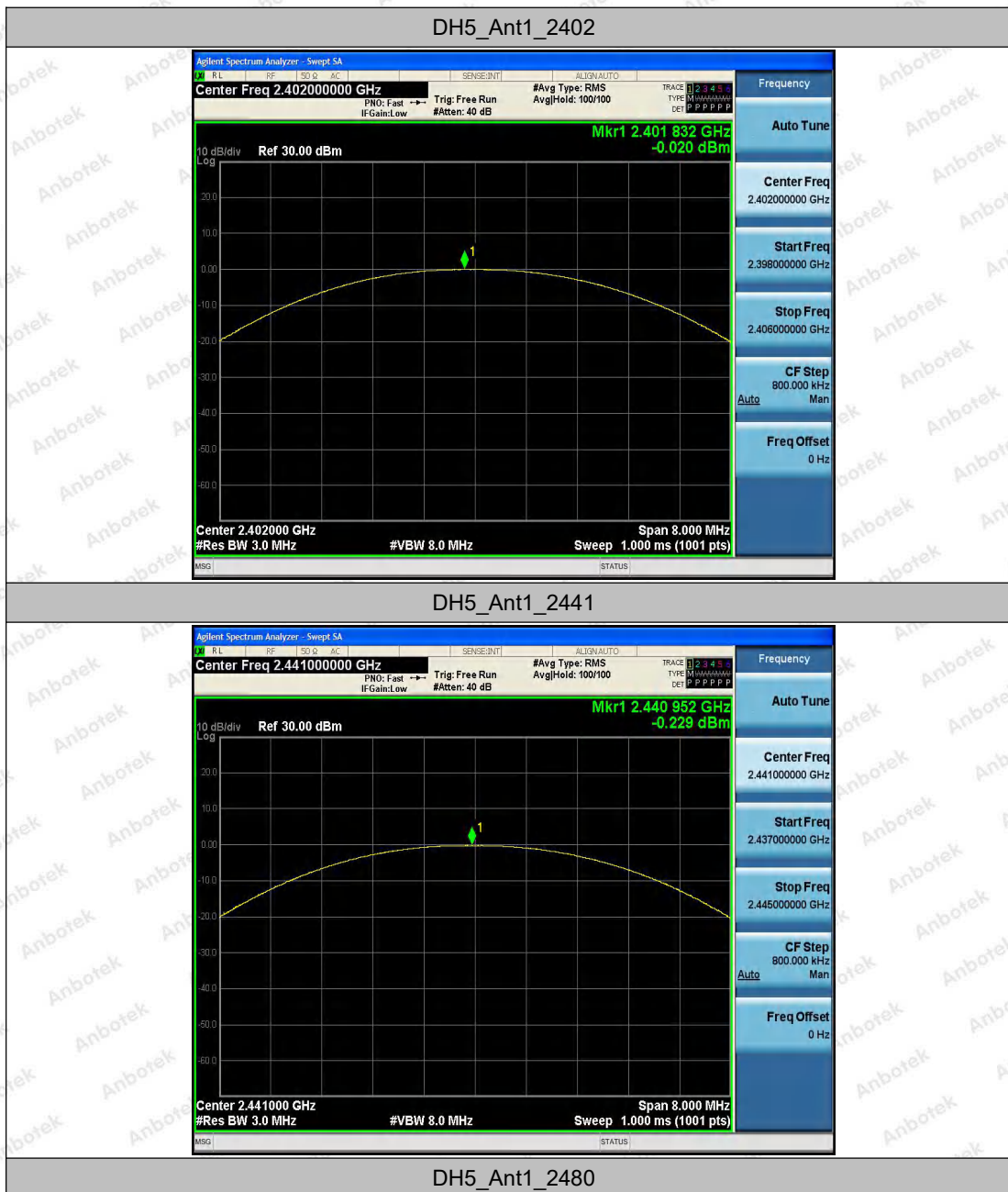
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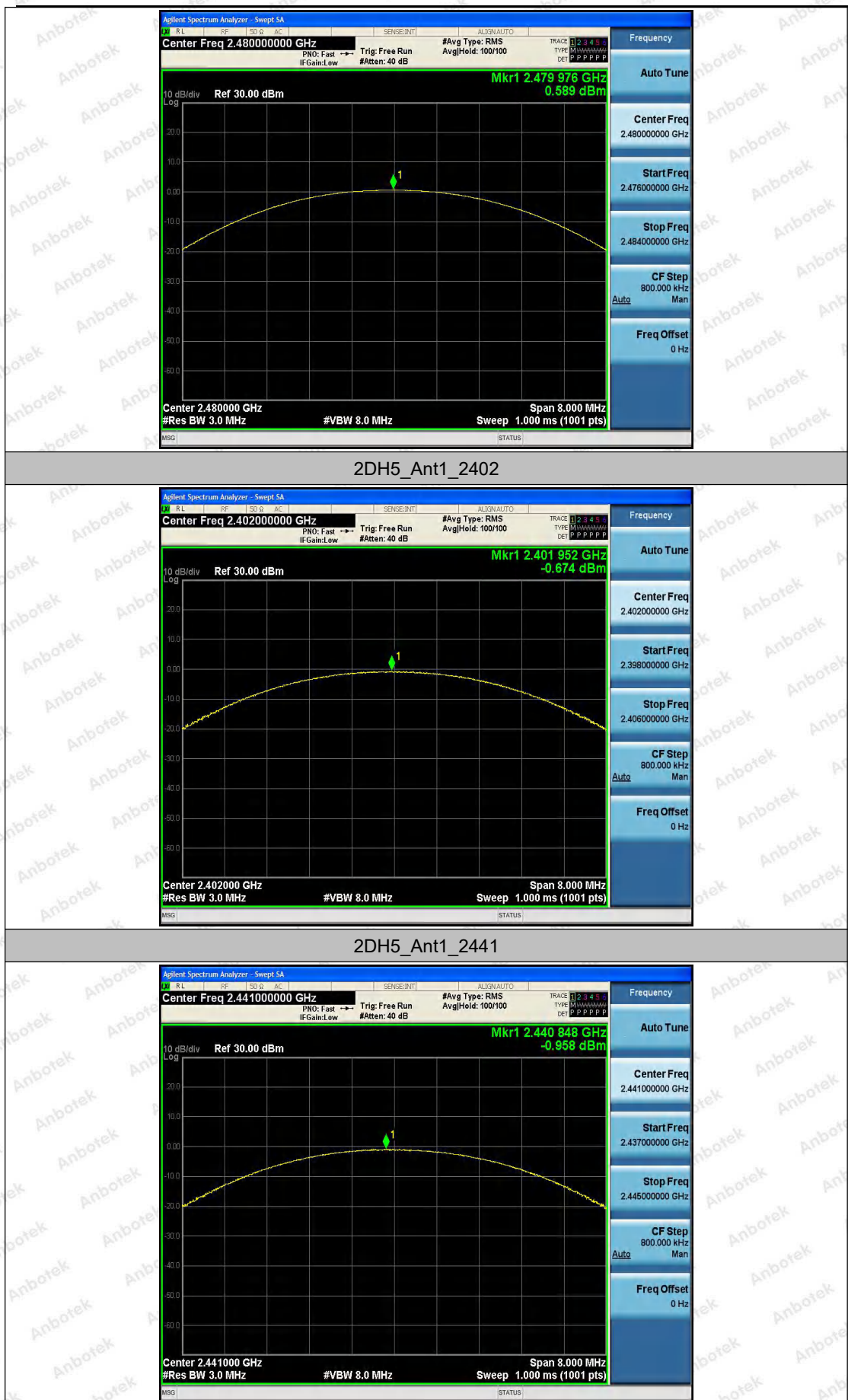
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.02	≤20.97	PASS
		2441	-0.23	≤20.97	PASS
		2480	0.59	≤20.97	PASS
2DH5	Ant1	2402	-0.67	≤20.97	PASS
		2441	-0.96	≤20.97	PASS
		2480	-0.26	≤20.97	PASS
3DH5	Ant1	2402	-0.6	≤20.97	PASS
		2441	-0.71	≤20.97	PASS
		2480	-0.04	≤20.97	PASS

Test Graphs





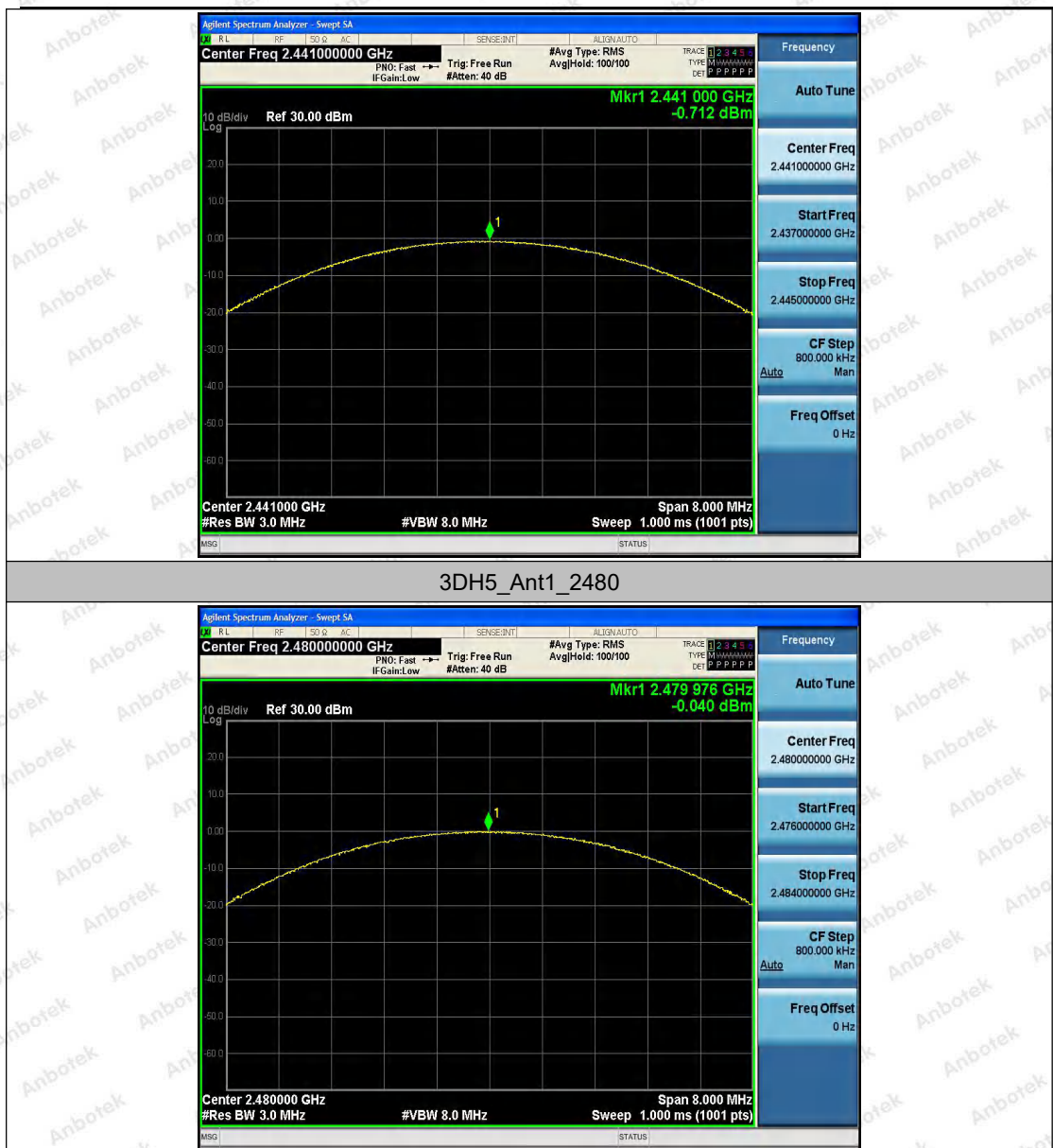
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.99	≥ 0.945	PASS
2DH5	Ant1	Hop	1.22	≥ 0.886	PASS
3DH5	Ant1	Hop	1.308	≥ 0.894	PASS

Test Graphs



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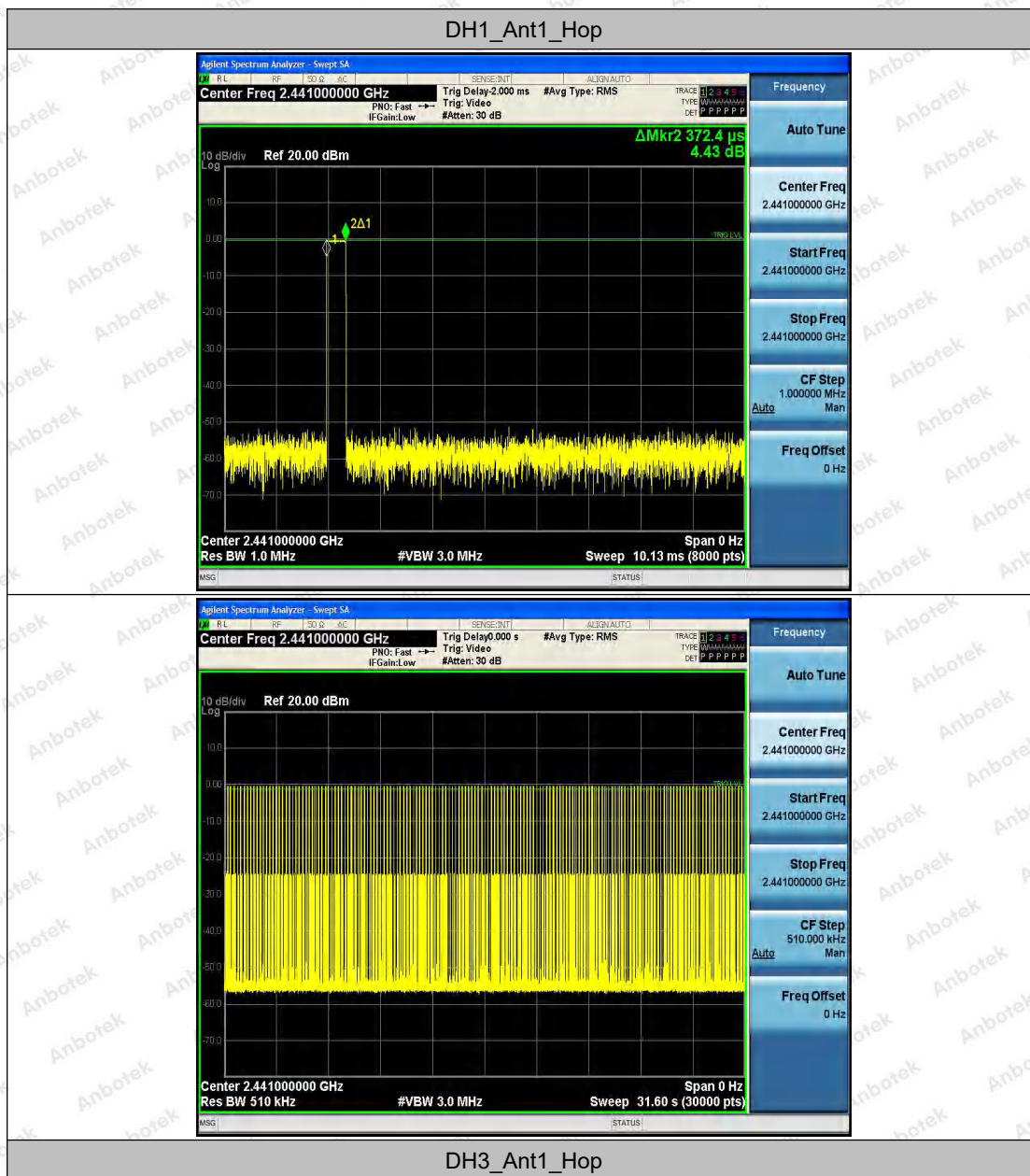
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	94	0.271	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

Test Graphs



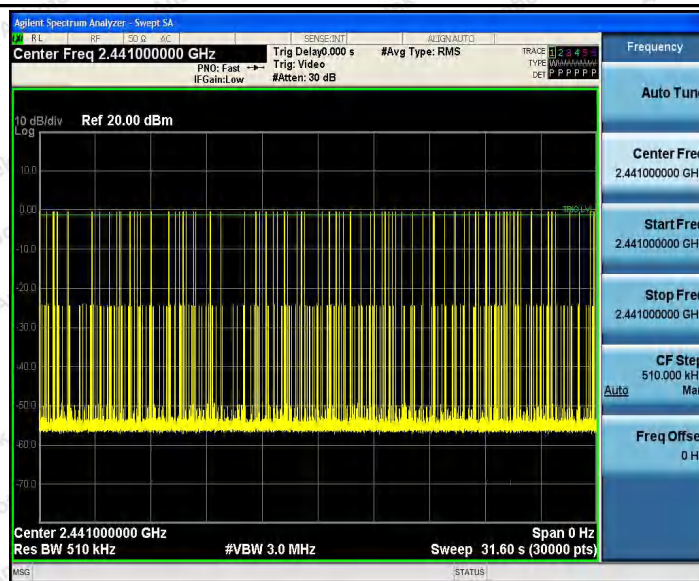


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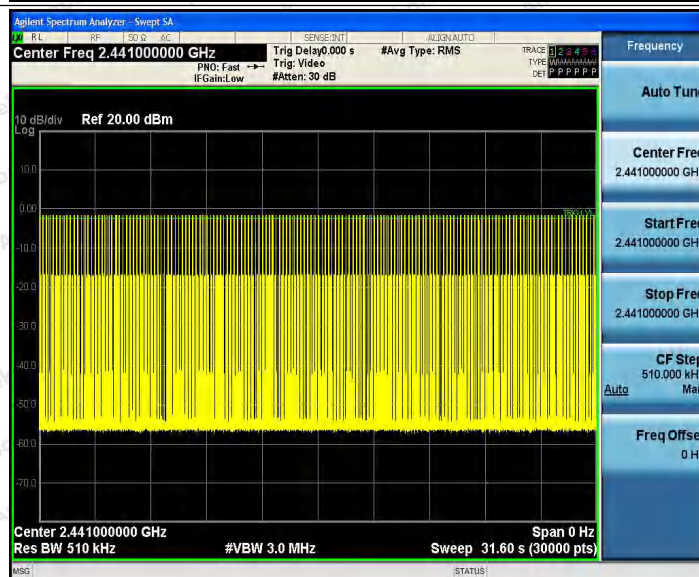
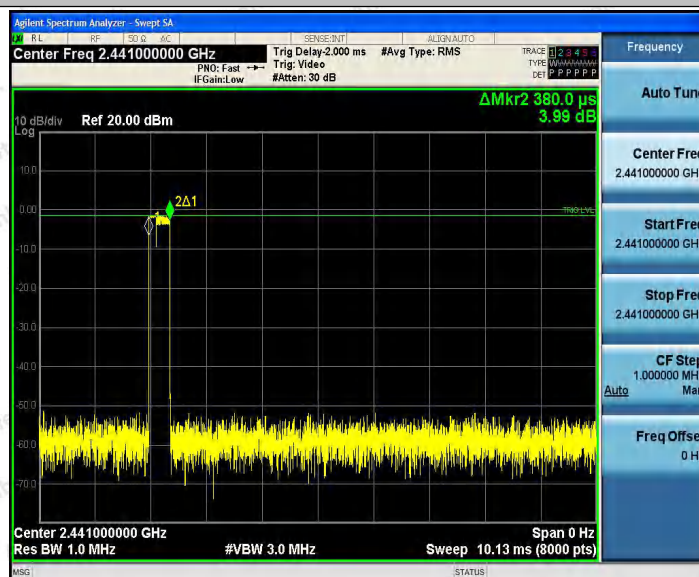
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2DH1_Ant1_Hop



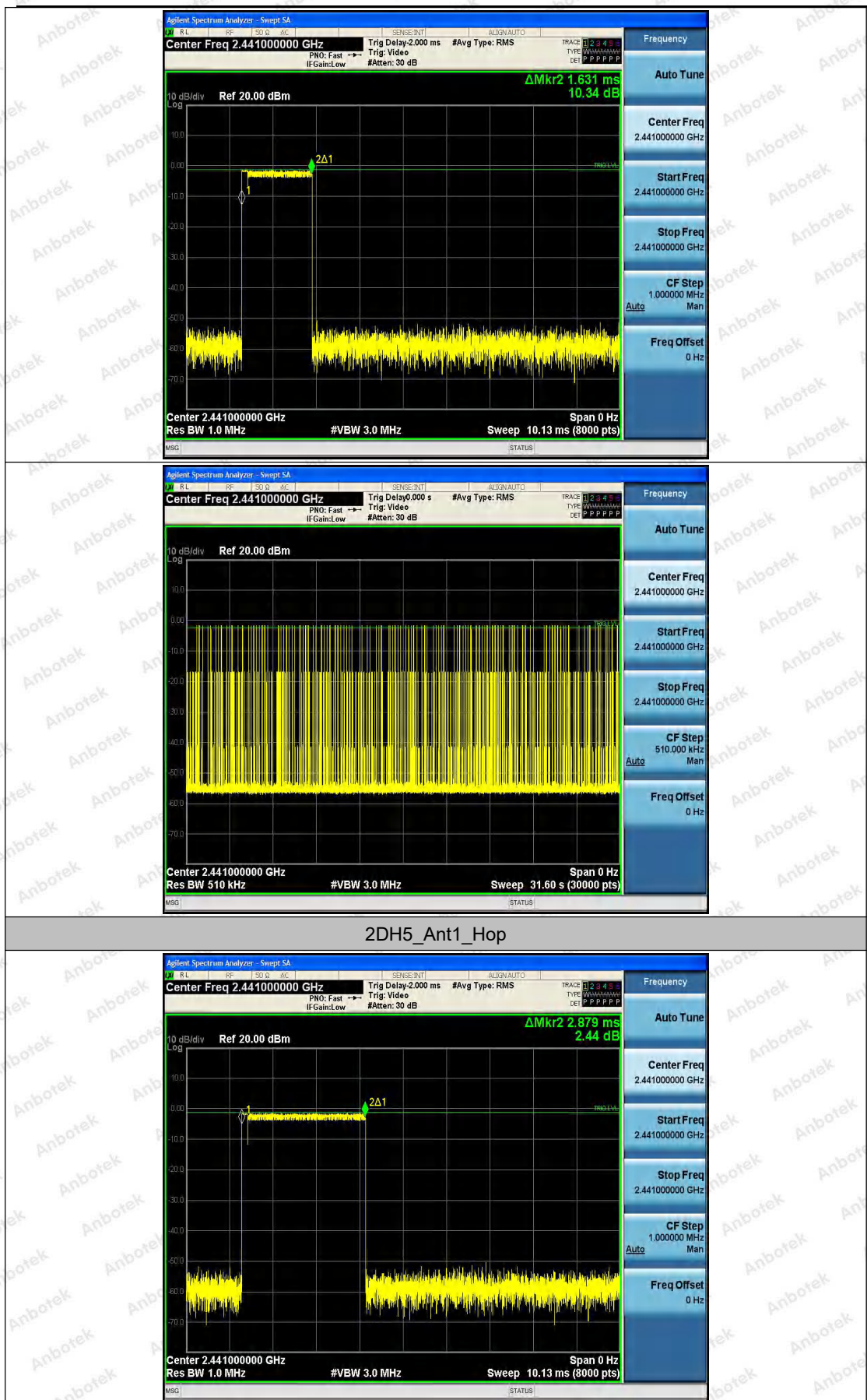
2DH3_Ant1_Hop

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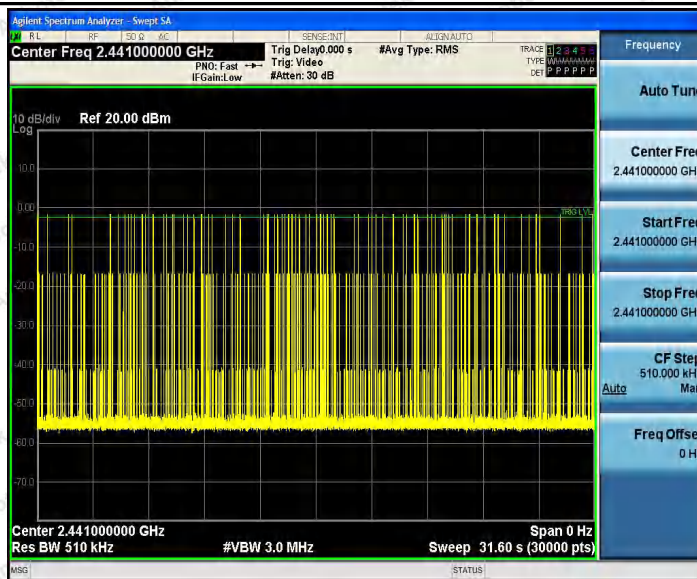
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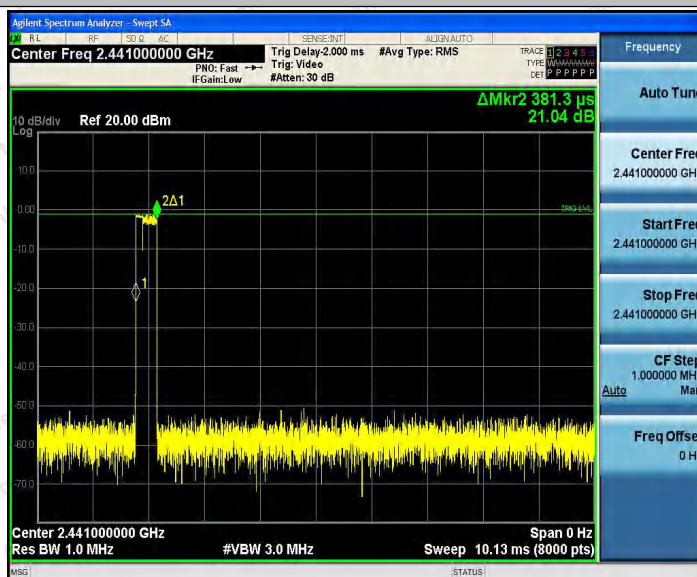
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3DH1_Ant1_Hop



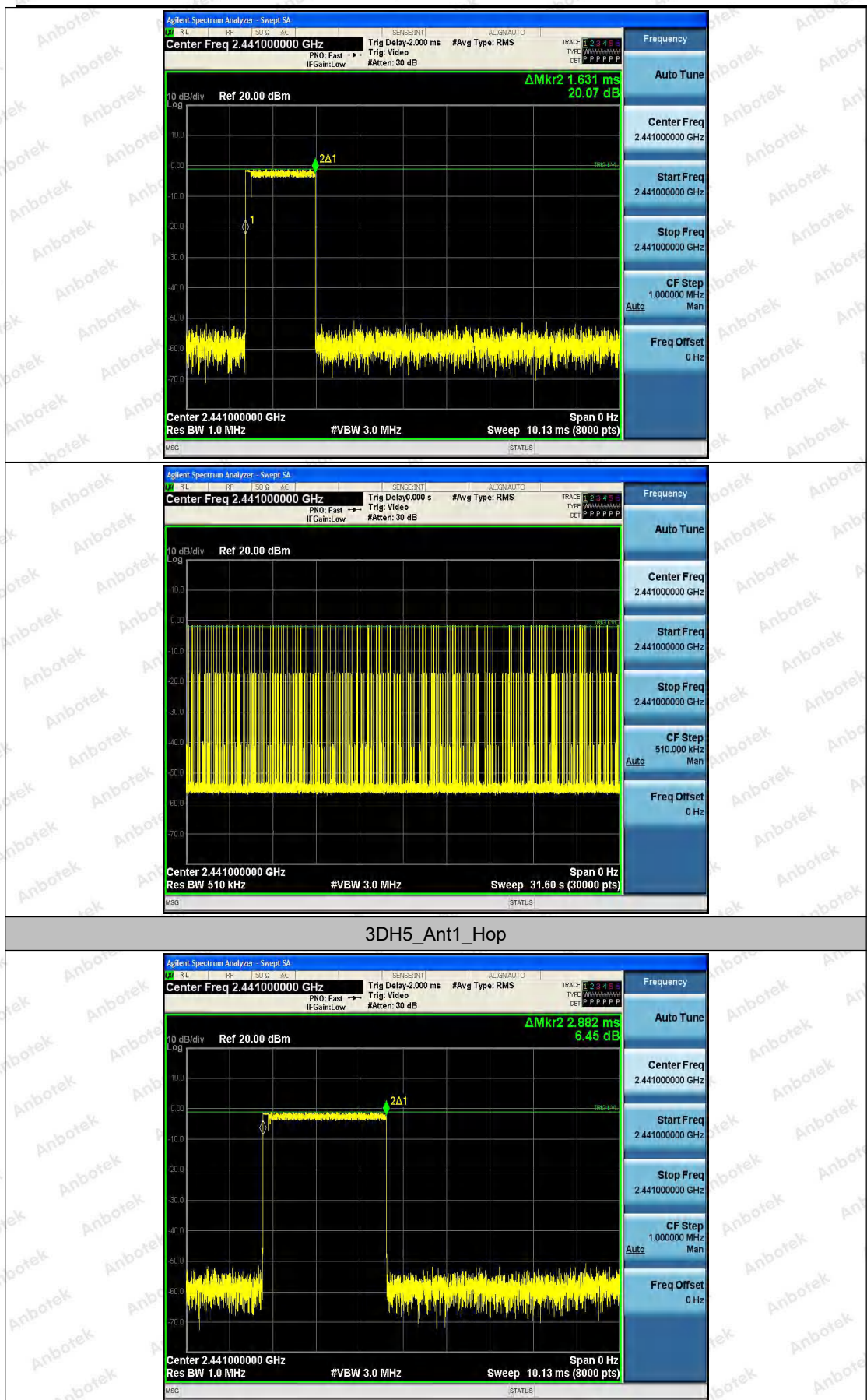
3DH3_Ant1_Hop

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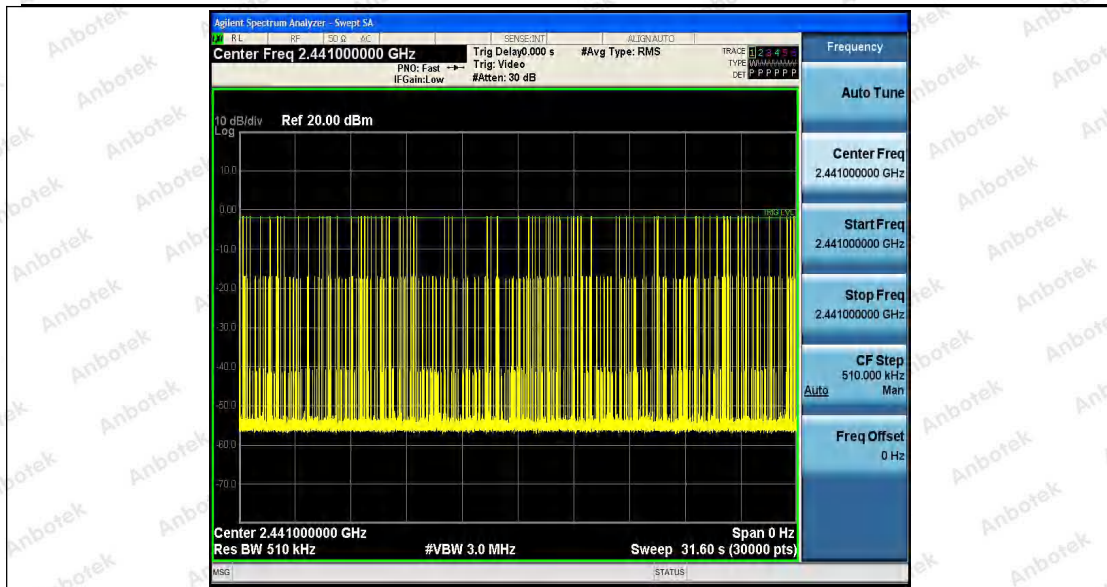
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3DH5_Ant1_Hop



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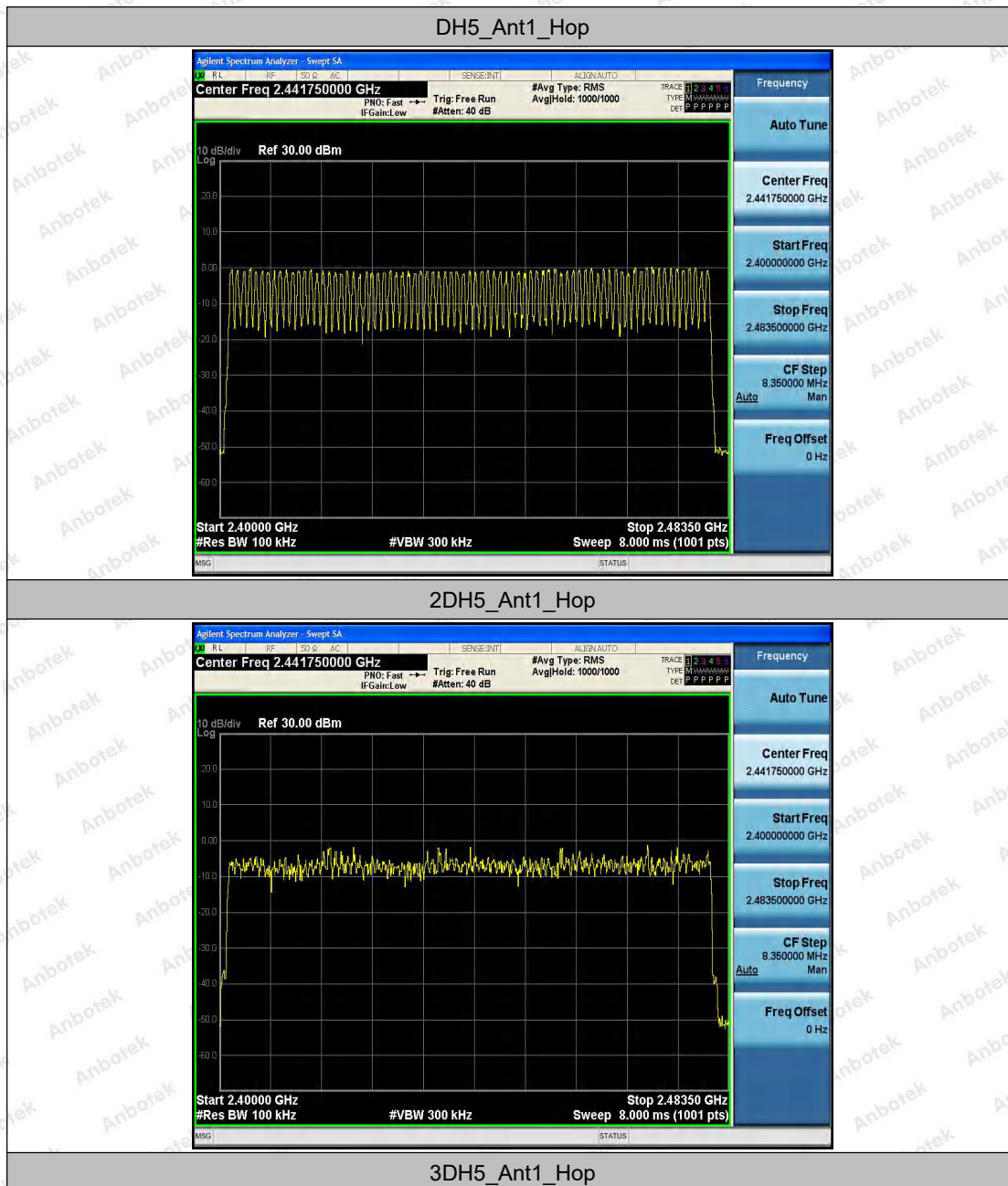
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Appendix F: Number of hopping channels

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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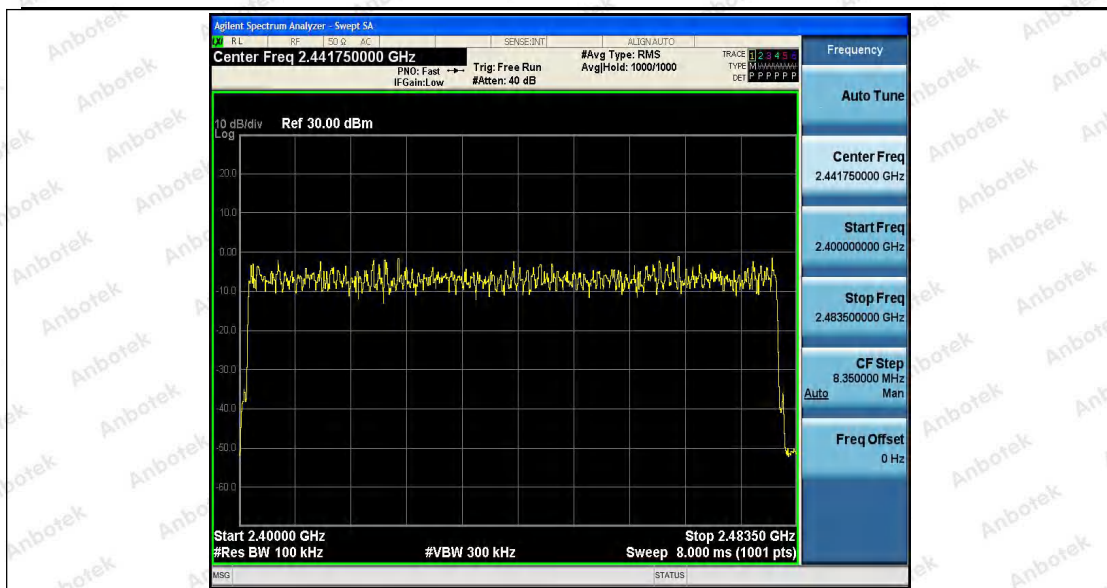
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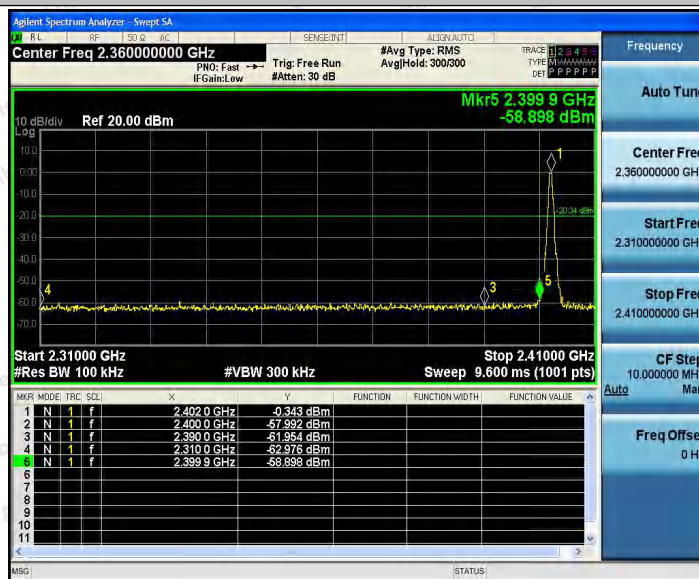
Appendix G: Band edge measurements

Test Result

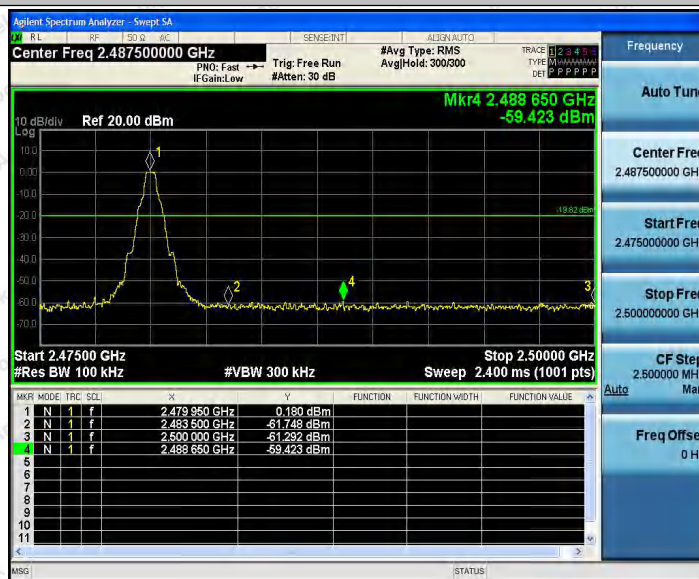
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.34	-58.9	≤-20.34	PASS
		High	2480	0.18	-59.42	≤-19.82	PASS
		Low	Hop	-0.94	-59.65	≤-20.94	PASS
		High	Hop	0.23	-62.43	≤-19.77	PASS
2DH5	Ant1	Low	2402	-1.82	-57.45	≤-21.82	PASS
		High	2480	-2.07	-59.71	≤-22.07	PASS
		Low	Hop	-2.95	-59.37	≤-22.95	PASS
		High	Hop	-4.59	-61.34	≤-24.59	PASS
3DH5	Ant1	Low	2402	-3.50	-57.34	≤-23.5	PASS
		High	2480	-0.93	-59.17	≤-20.93	PASS
		Low	Hop	-4.07	-59.43	≤-24.07	PASS
		High	Hop	-4.63	-62.04	≤-24.63	PASS

Test Graphs

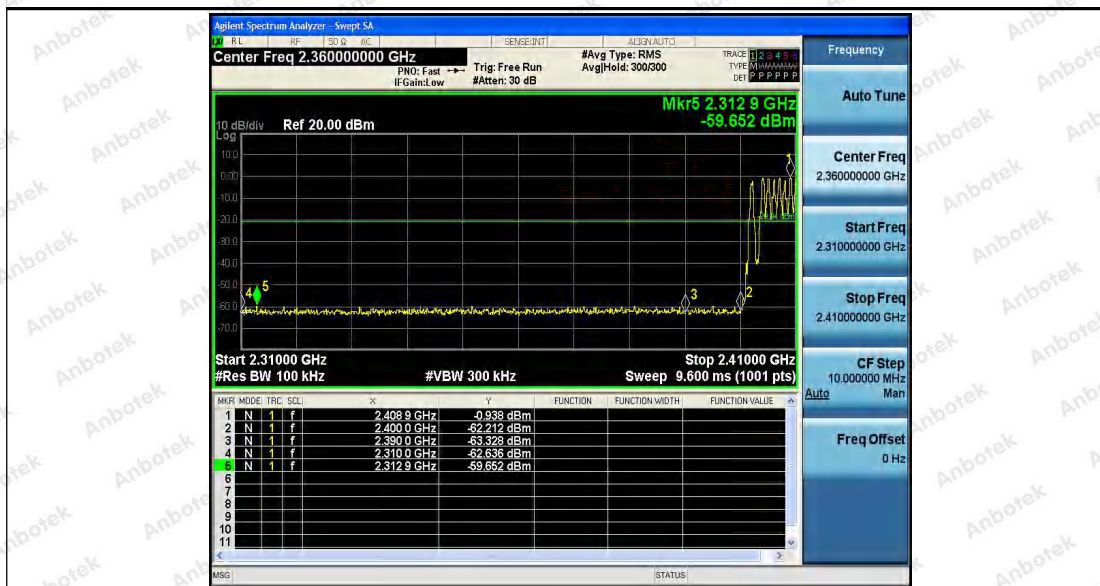
DH5_Ant1_Low_2402



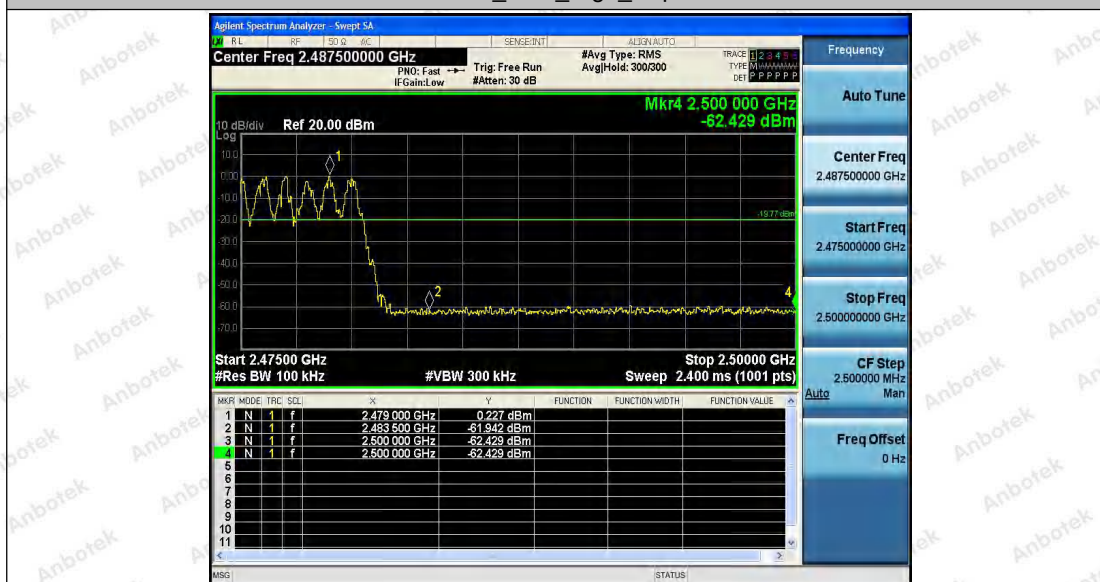
DH5_Ant1_High_2480



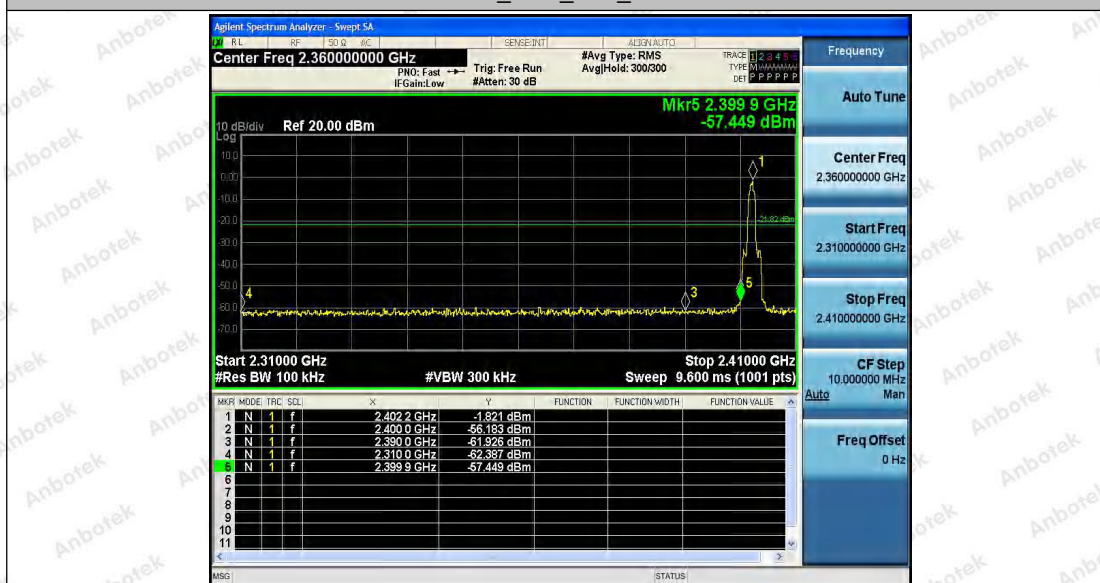
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



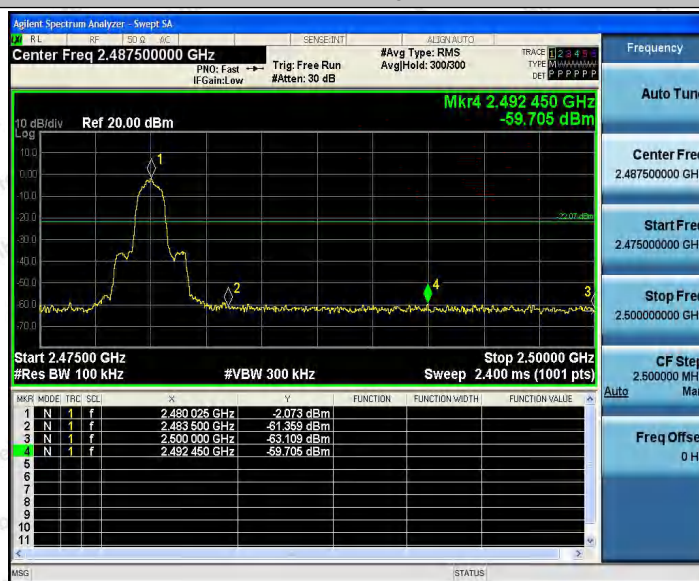
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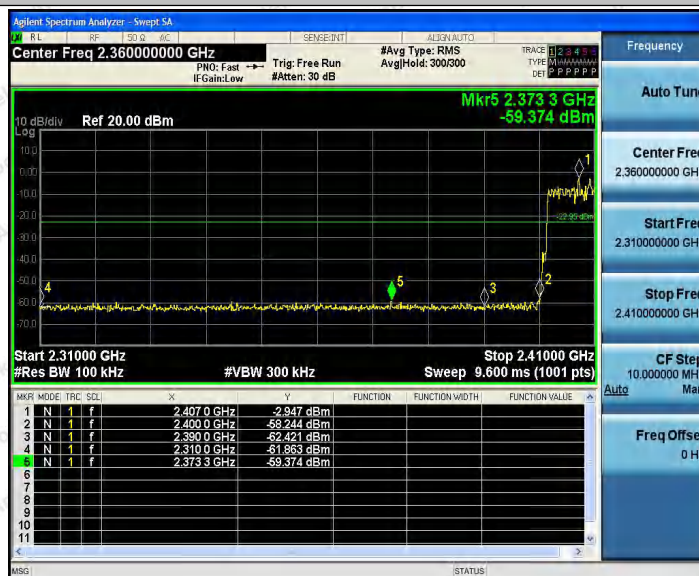
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



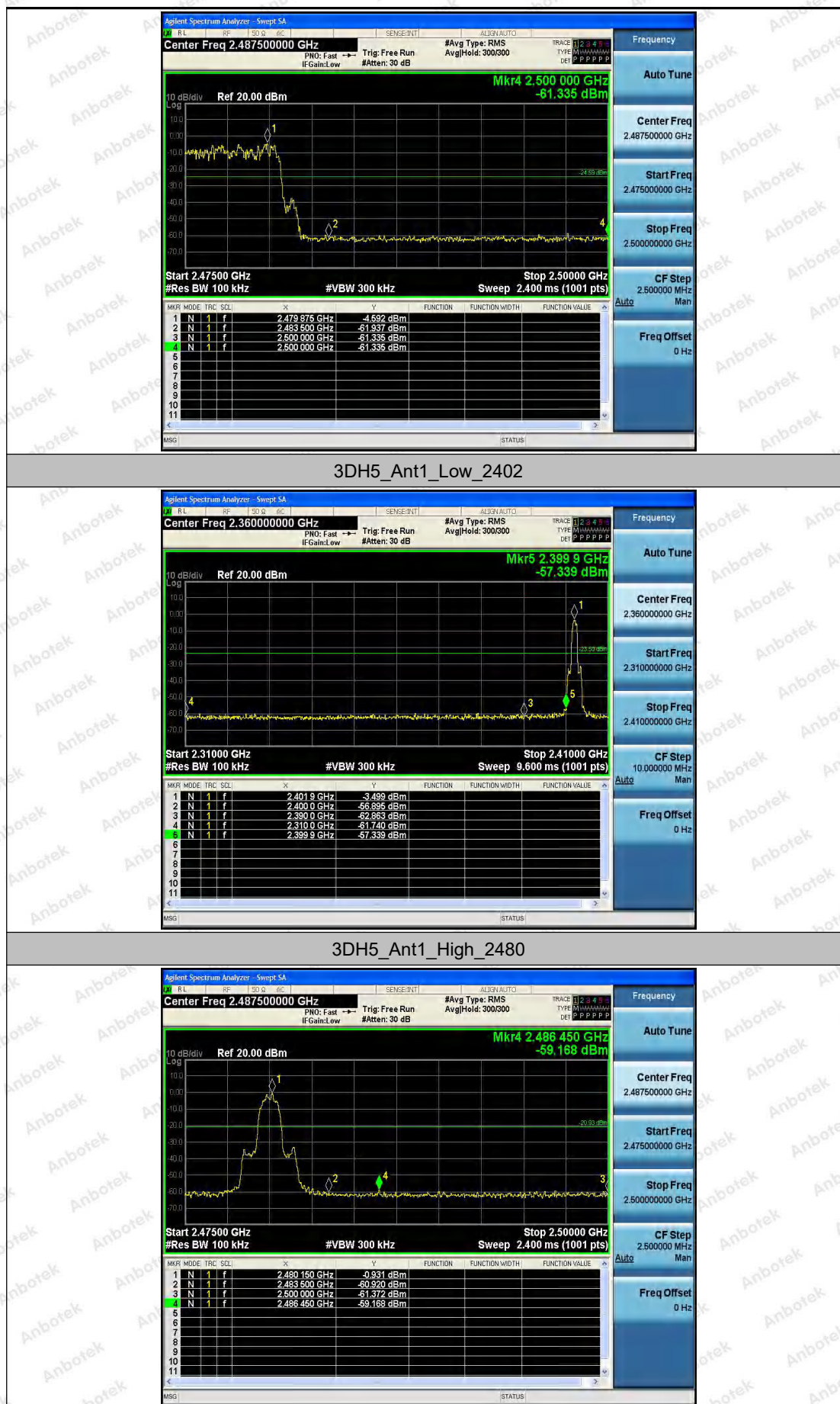
2DH5_Ant1_High_Hop

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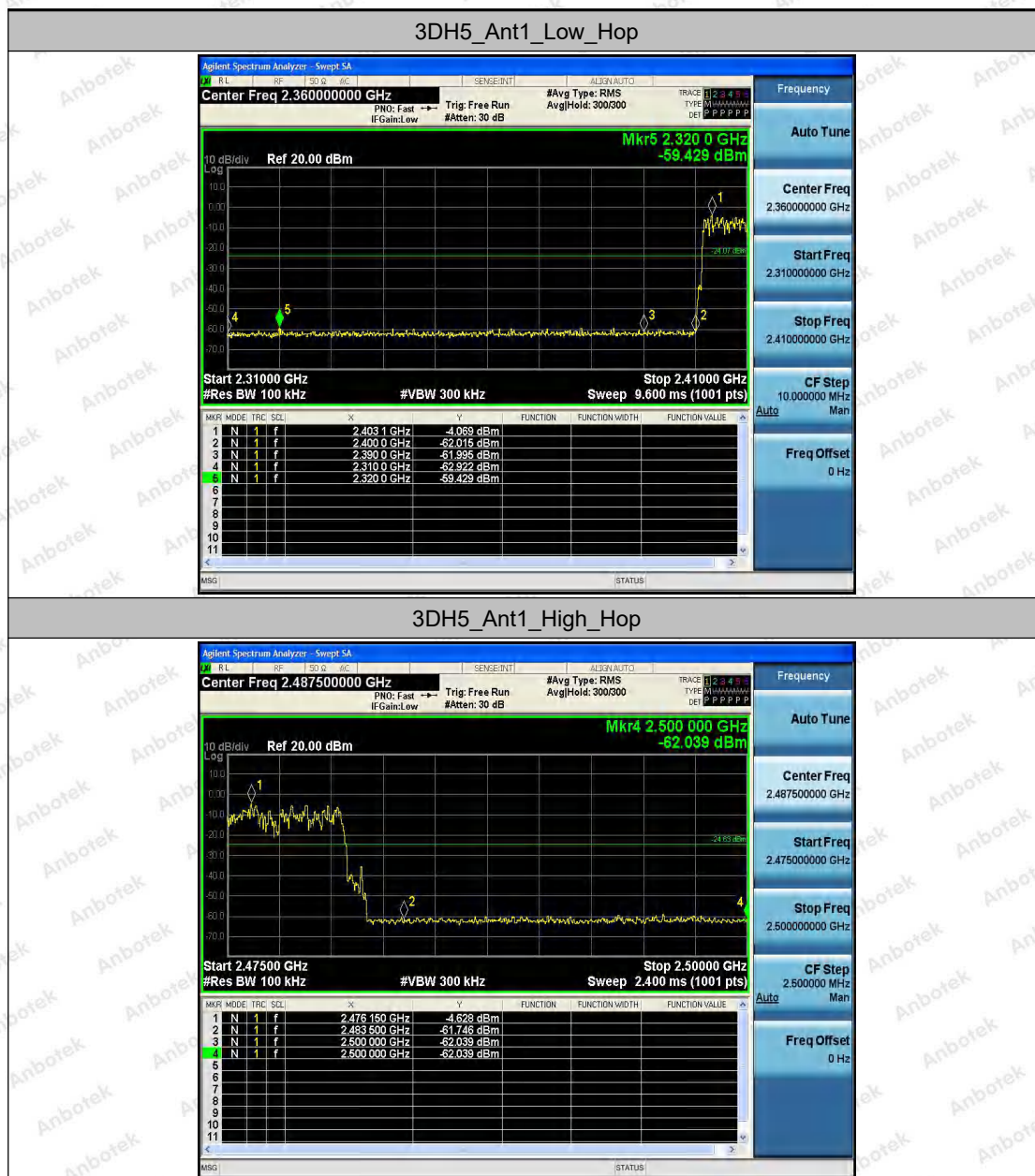


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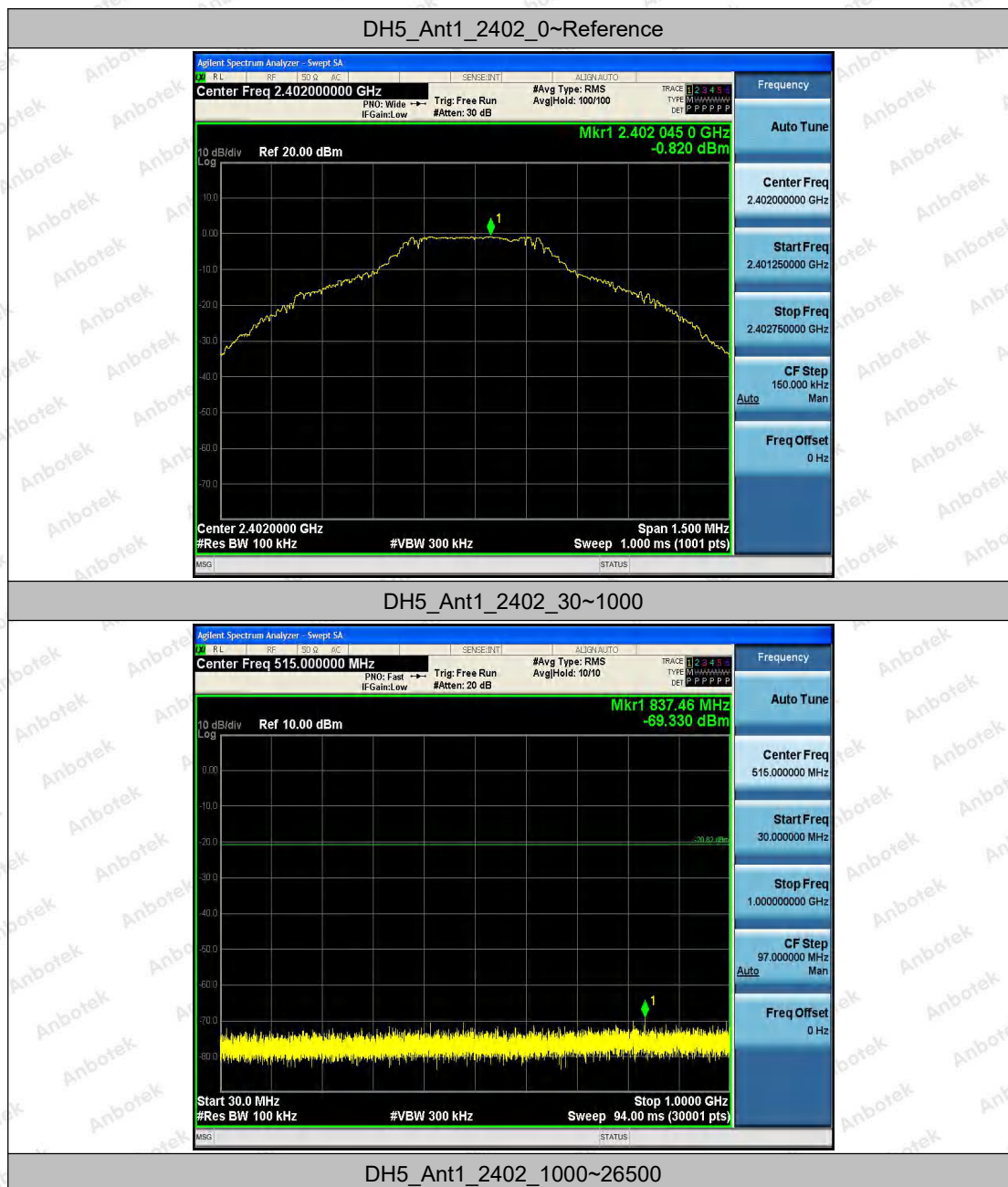


Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-69.33	≤-20.82	PASS
			1000~26500	-0.82	-54.56	≤-20.82	PASS
		2441	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-69.41	≤-20.51	PASS
			1000~26500	-0.51	-54.2	≤-20.51	PASS
		2480	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-70.07	≤-19.94	PASS
			1000~26500	0.06	-54.12	≤-19.94	PASS
2DH5	Ant1	2402	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-69.19	≤-21.51	PASS
			1000~26500	-1.51	-55.51	≤-21.51	PASS
		2441	Reference	-1.83	-1.83	---	PASS
			30~1000	-1.83	-70.07	≤-21.83	PASS
			1000~26500	-1.83	-55.4	≤-21.83	PASS
		2480	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-69.55	≤-21.33	PASS
			1000~26500	-1.33	-54.36	≤-21.33	PASS
3DH5	Ant1	2402	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-70.58	≤-22.23	PASS
			1000~26500	-2.23	-55.76	≤-22.23	PASS
		2441	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-70.18	≤-22.56	PASS
			1000~26500	-2.56	-54.17	≤-22.56	PASS
		2480	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-70.02	≤-20.96	PASS
			1000~26500	-0.96	-55.35	≤-20.96	PASS

Test Graphs



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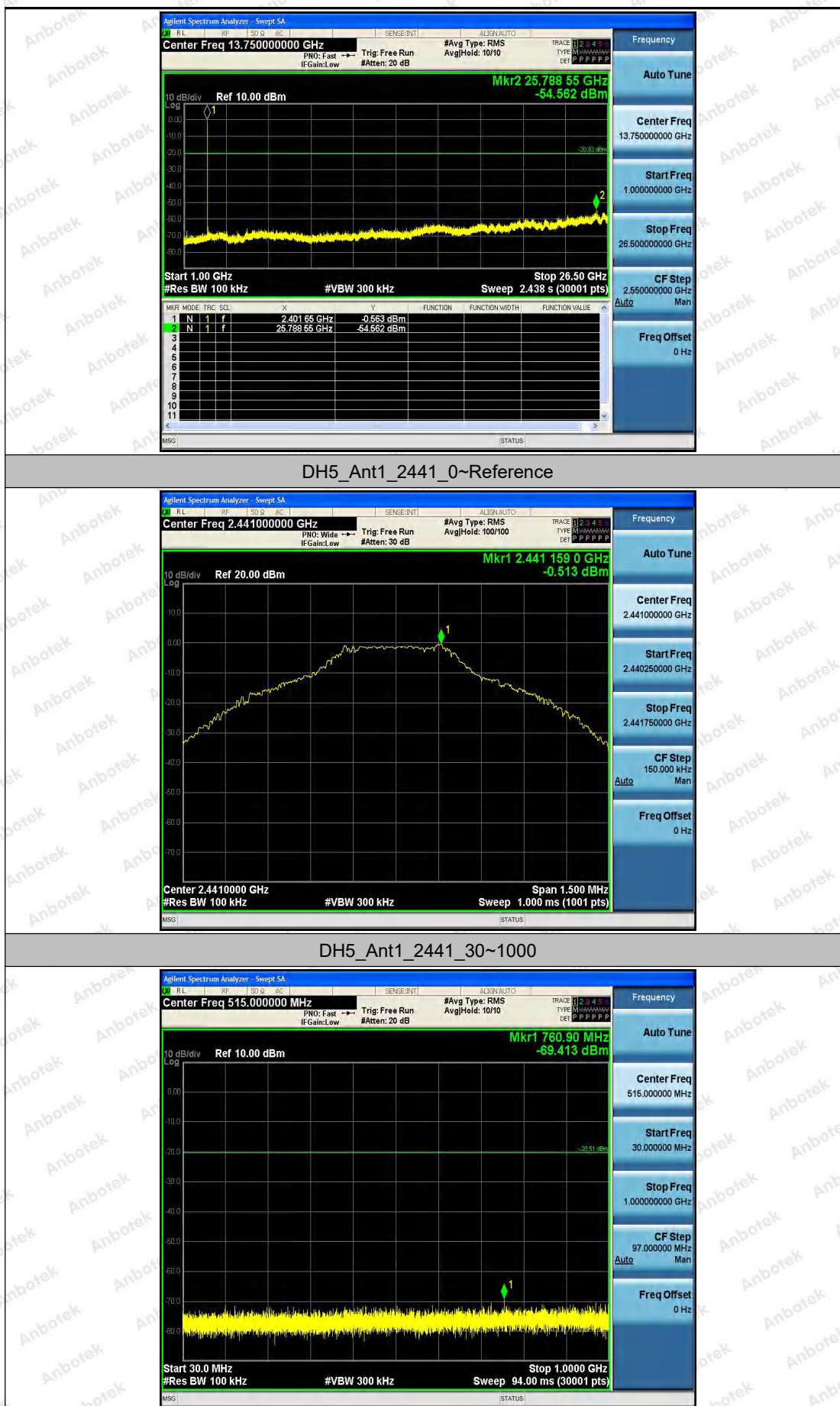
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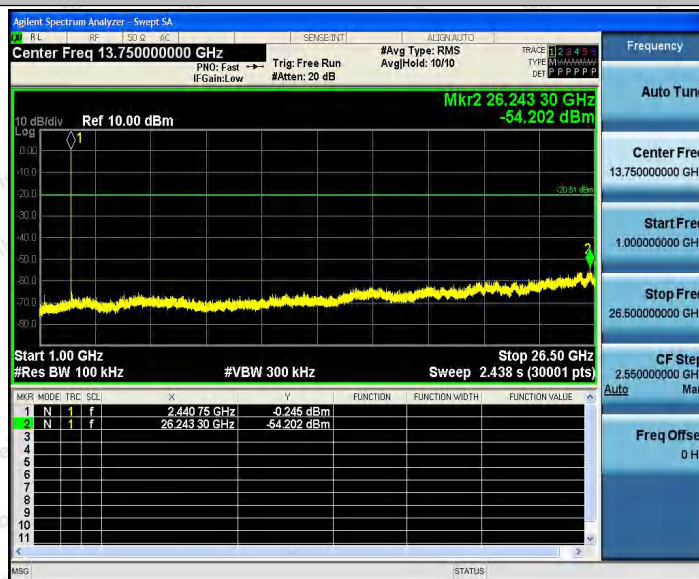
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



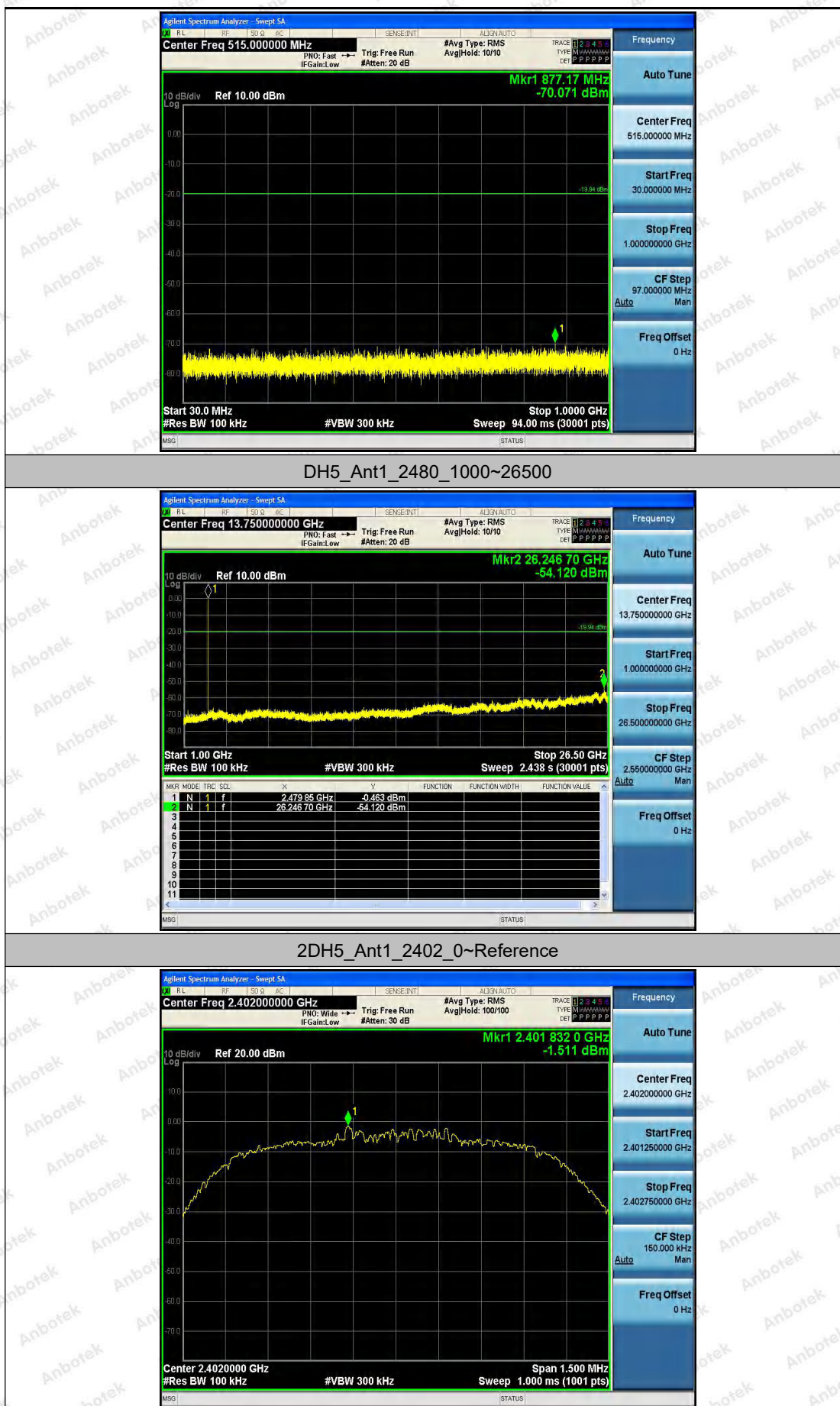
DH5_Ant1_2480_30~1000

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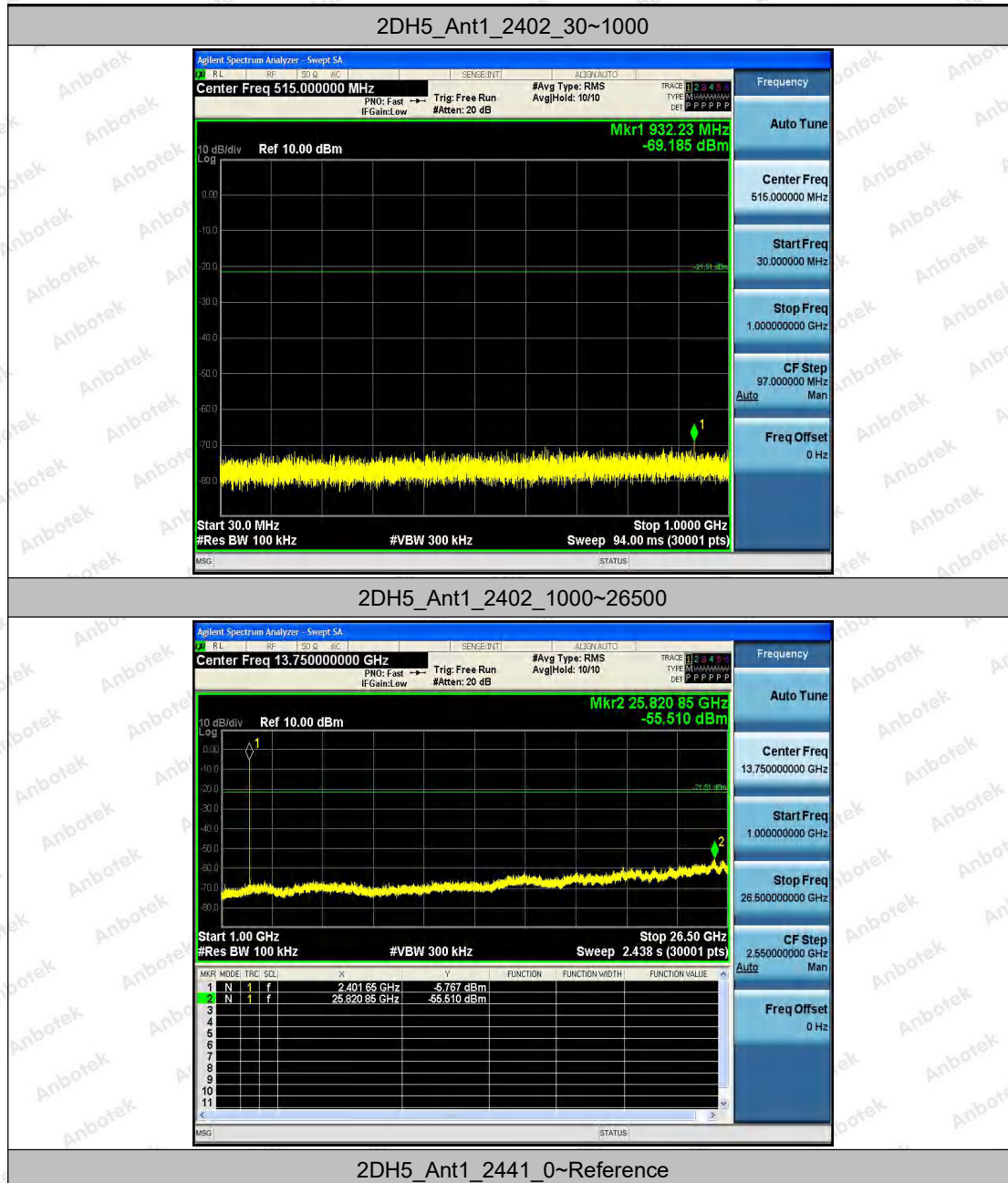


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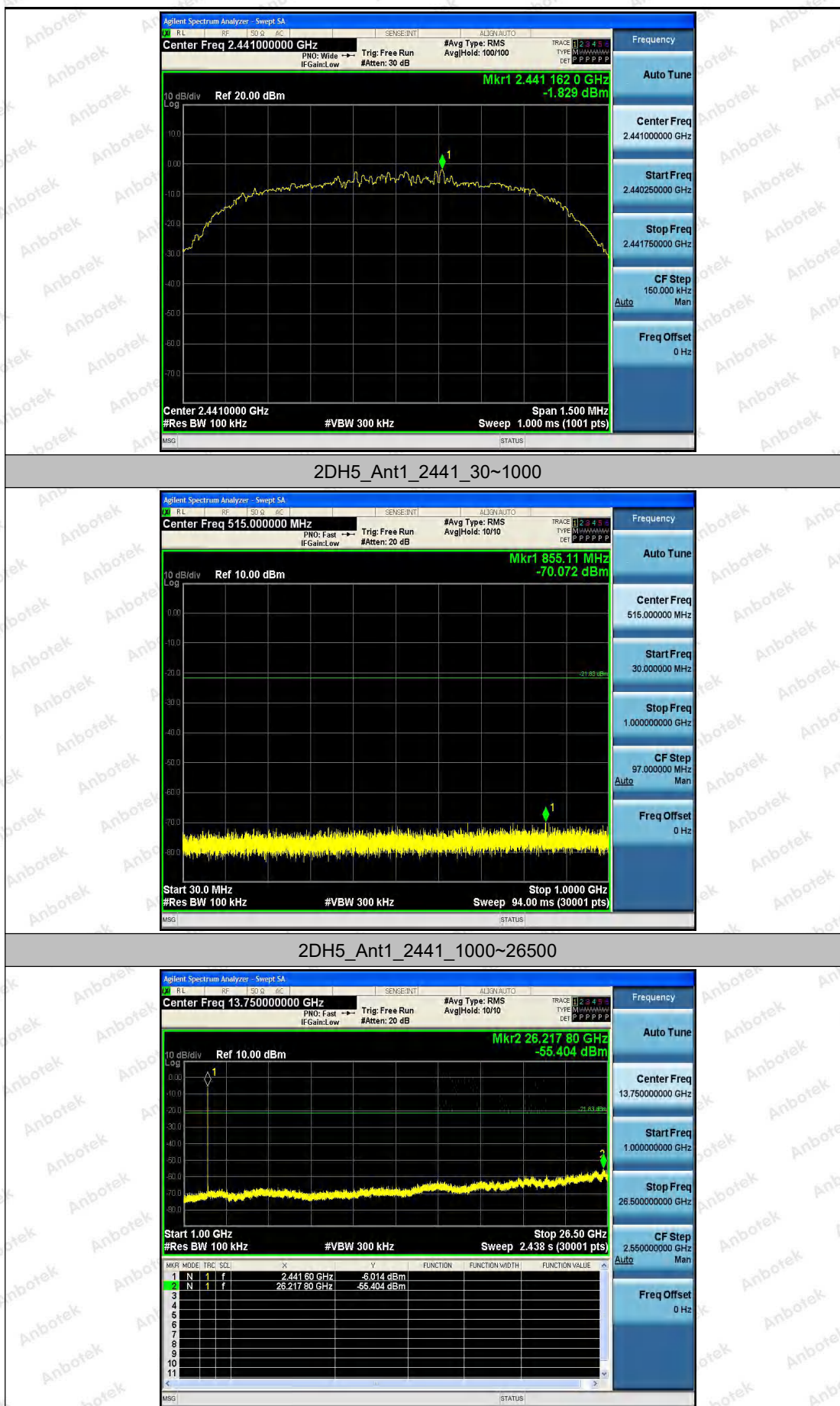


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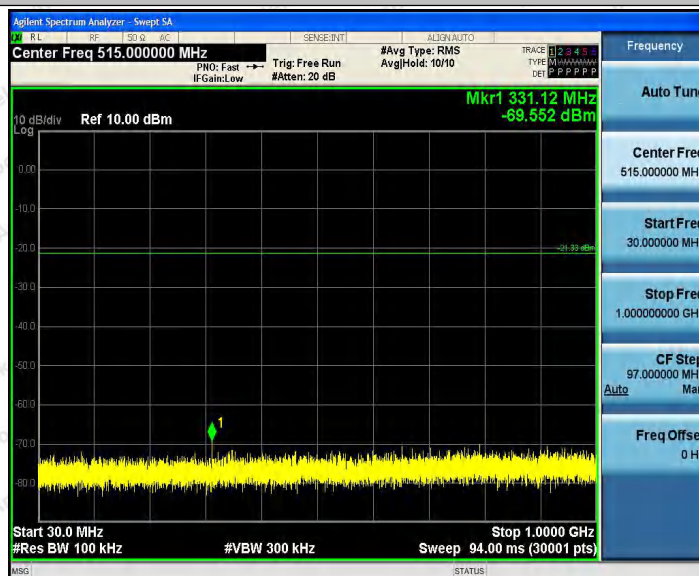
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



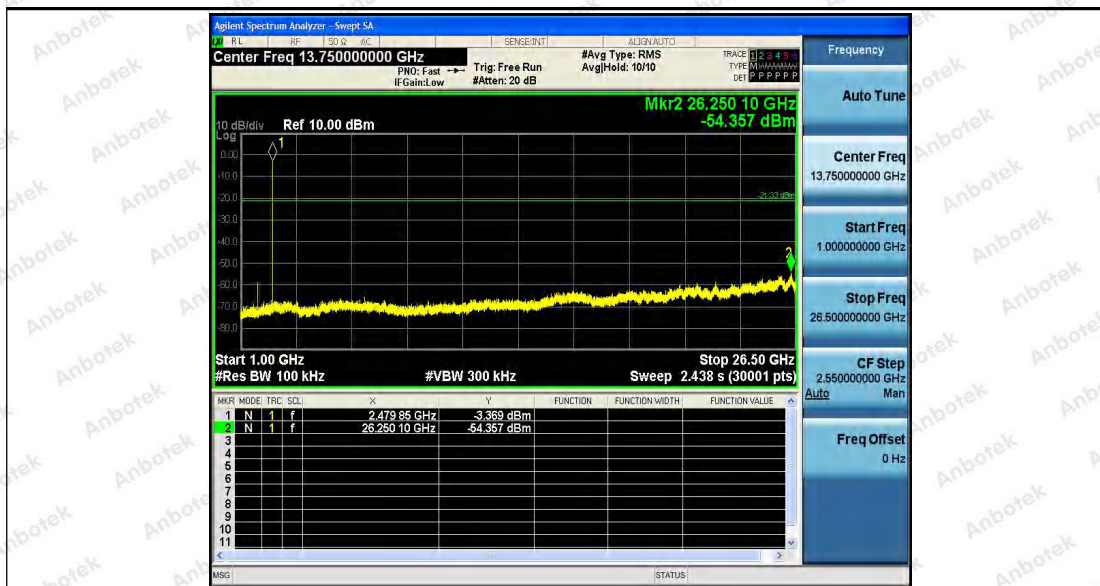
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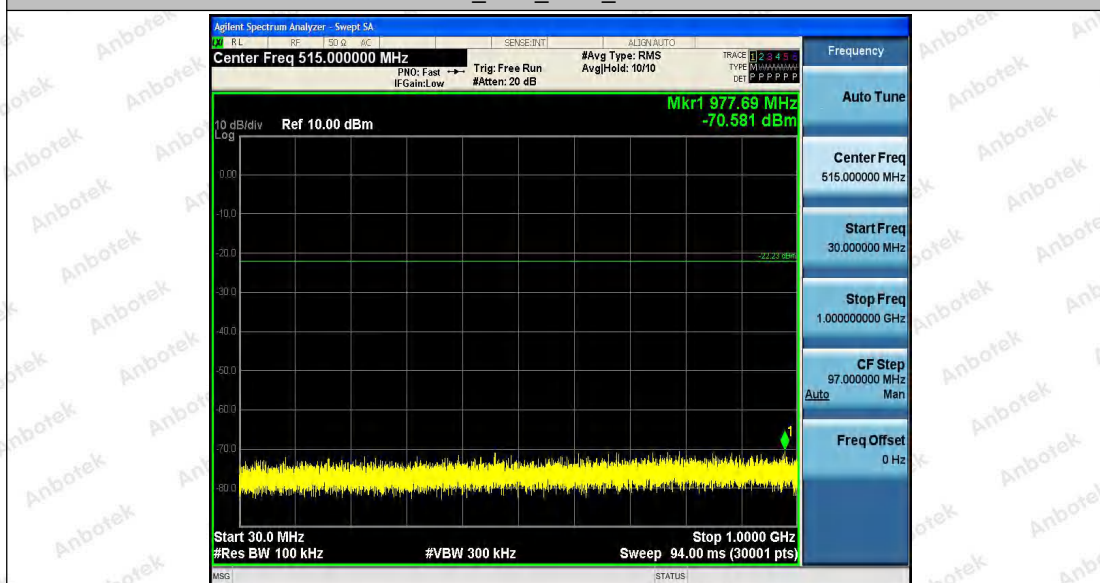
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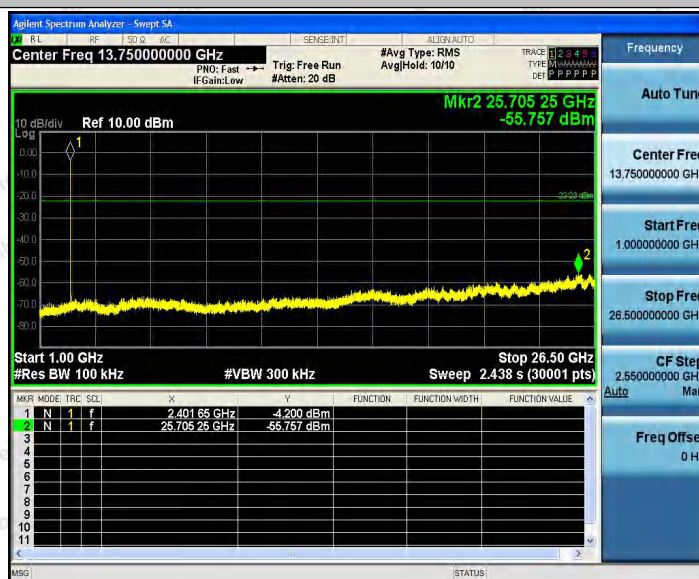
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3DH5_Ant1_2402_1000~26500



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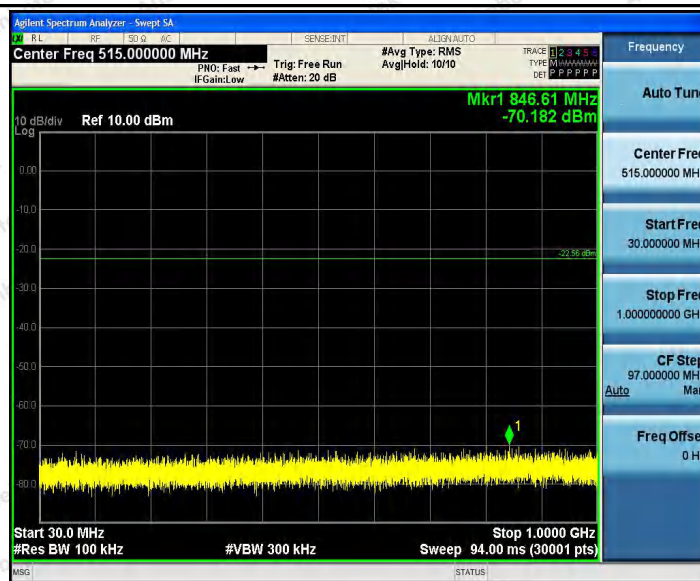
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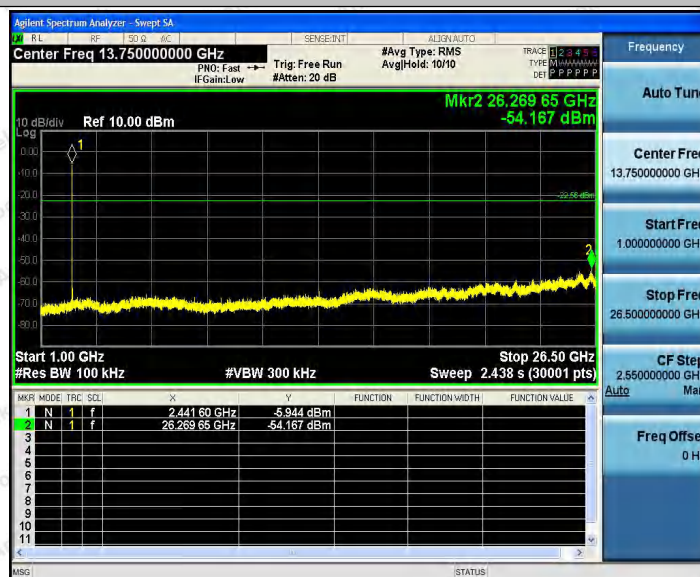
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3DH5 Ant1 2441 1000~26500



3DH5 Ant1 2480 0~Reference



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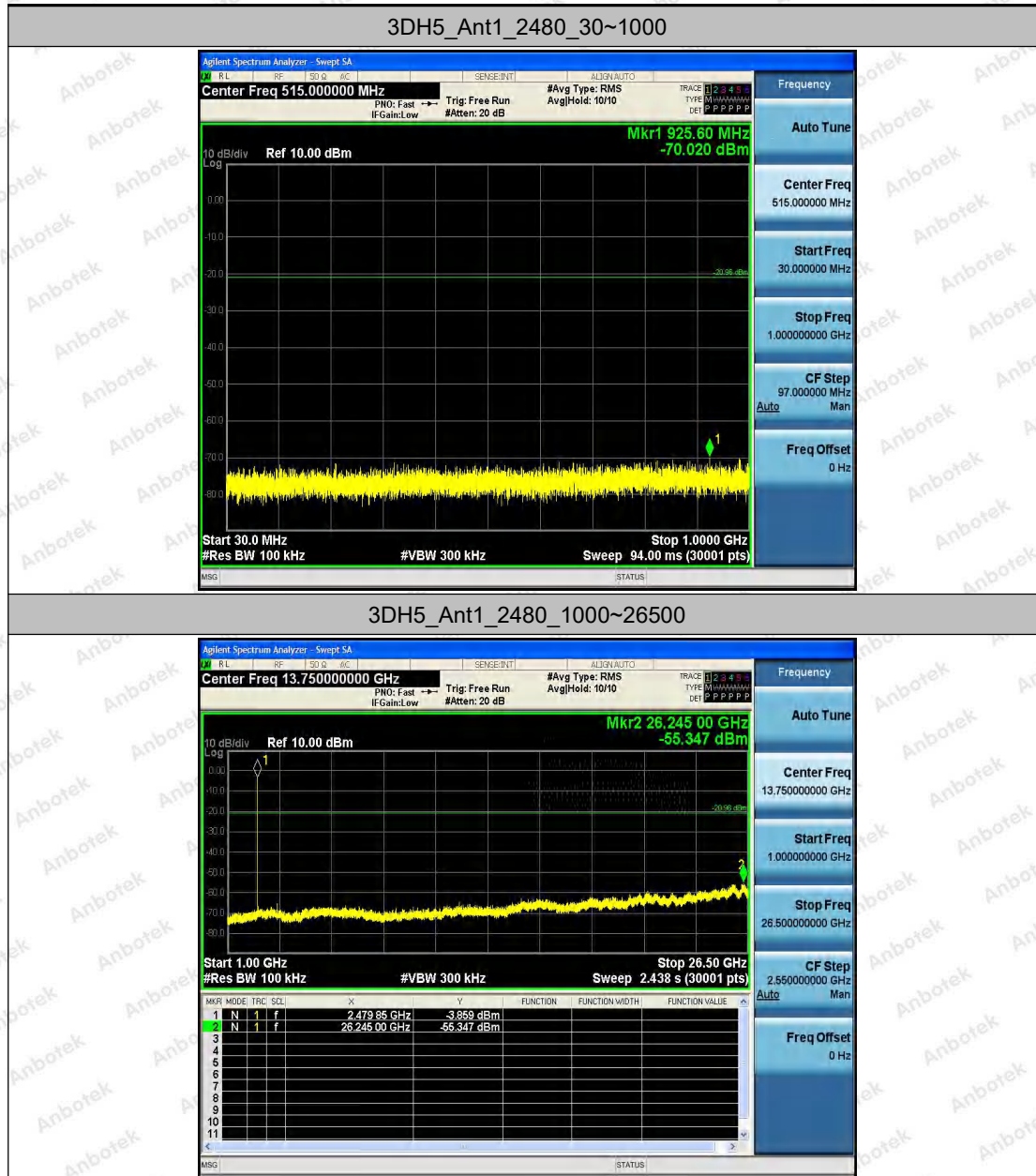
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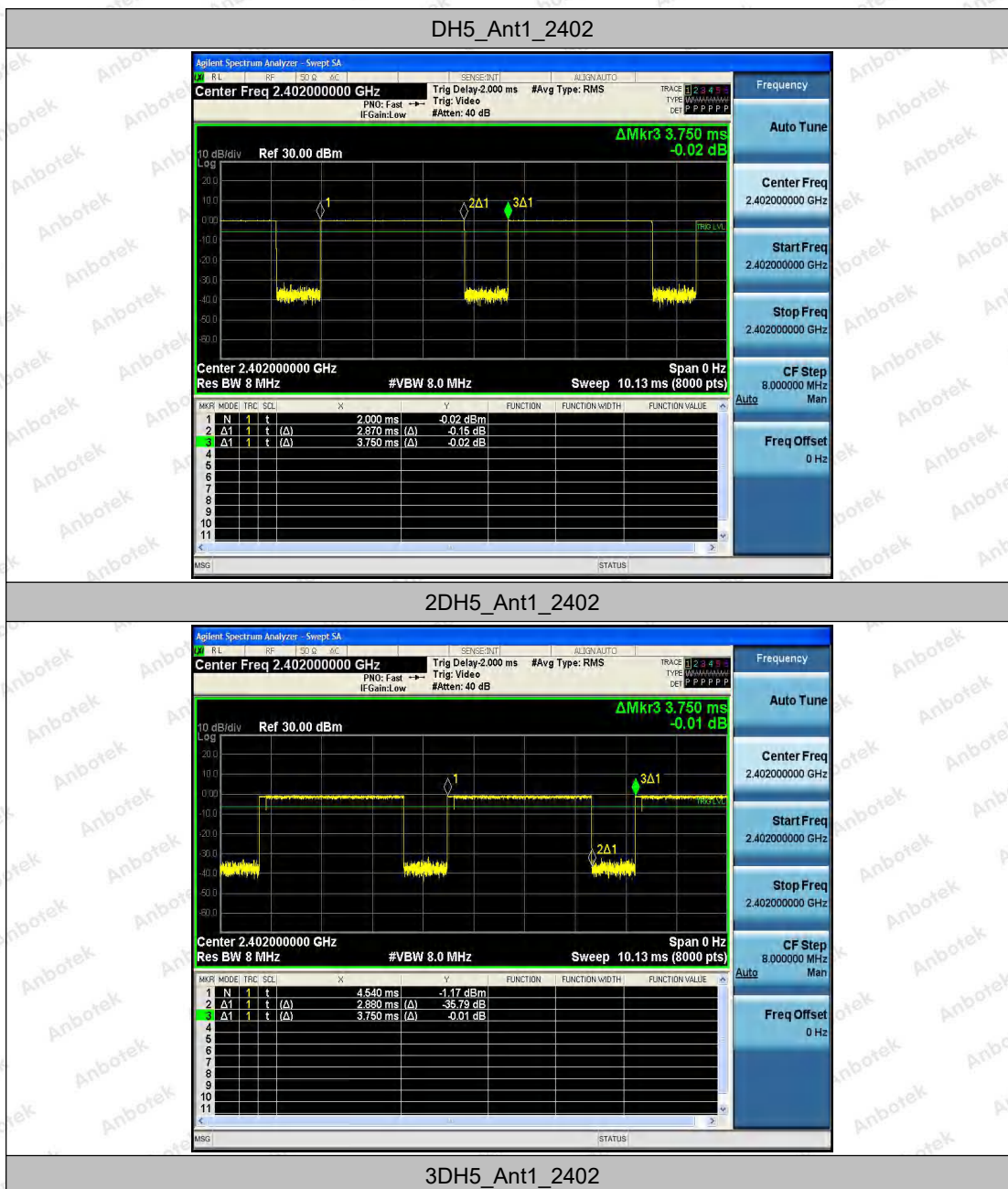
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	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

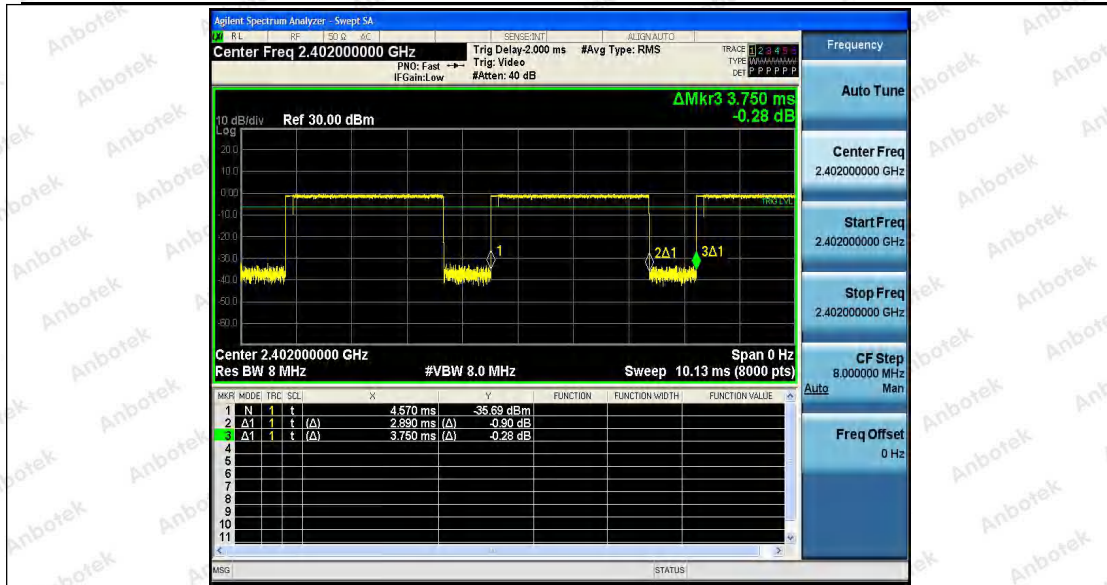


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