

Appendix Test Data

Report No.:	18220WC20105101	Test Sample No.:	1-2-2
Start Test Date:	2022.5.16	Finish Test Date:	2022.5.24
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.7°C	Relative Humidity:	55.6 %
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	0.939	2401.538	2402.477	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.948	2479.538	2480.486	---	PASS
2DH5	Ant1	2402	1.341	2401.331	2402.672	---	PASS
		2441	1.317	2440.340	2441.657	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS
3DH5	Ant1	2402	1.341	2401.325	2402.666	---	PASS
		2441	1.299	2440.346	2441.645	---	PASS
		2480	1.293	2479.352	2480.645	---	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2441

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3DH5_Ant1_2480



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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	0.88246	2401.558	2402.440	---	PASS
		2441	0.89699	2440.552	2441.449	---	PASS
		2480	0.88995	2479.555	2480.445	---	PASS
2DH5	Ant1	2402	1.2098	2401.394	2402.604	---	PASS
		2441	1.1928	2440.404	2441.597	---	PASS
		2480	1.1976	2479.401	2480.599	---	PASS
3DH5	Ant1	2402	1.2164	2401.382	2402.599	---	PASS
		2441	1.1984	2440.395	2441.593	---	PASS
		2480	1.2044	2479.389	2480.594	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

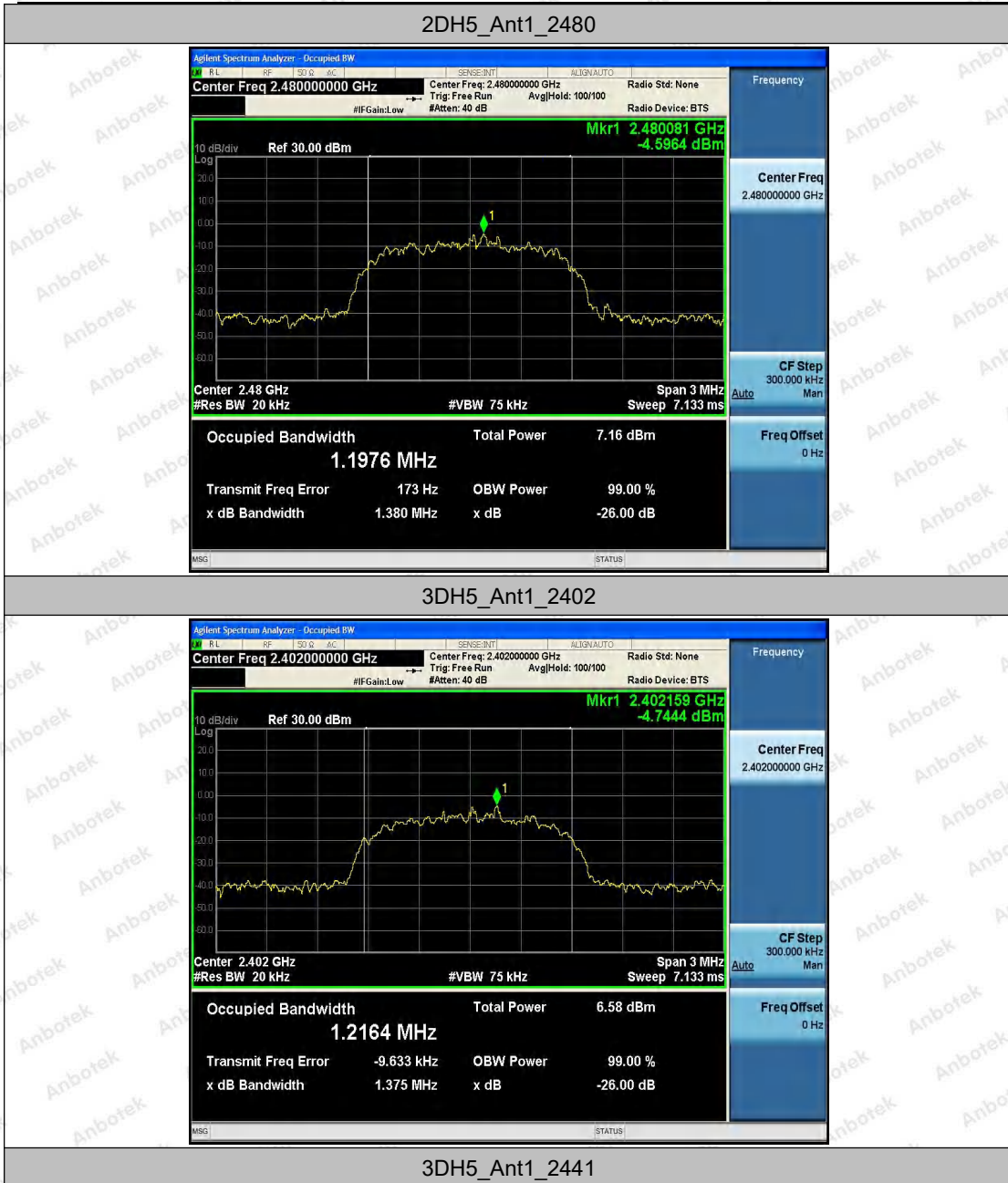


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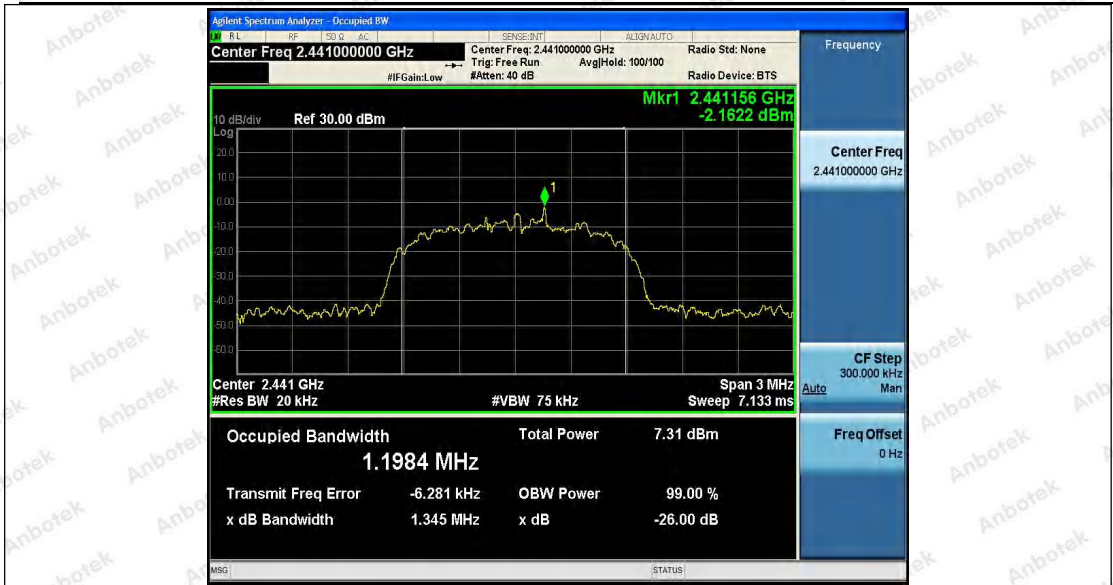


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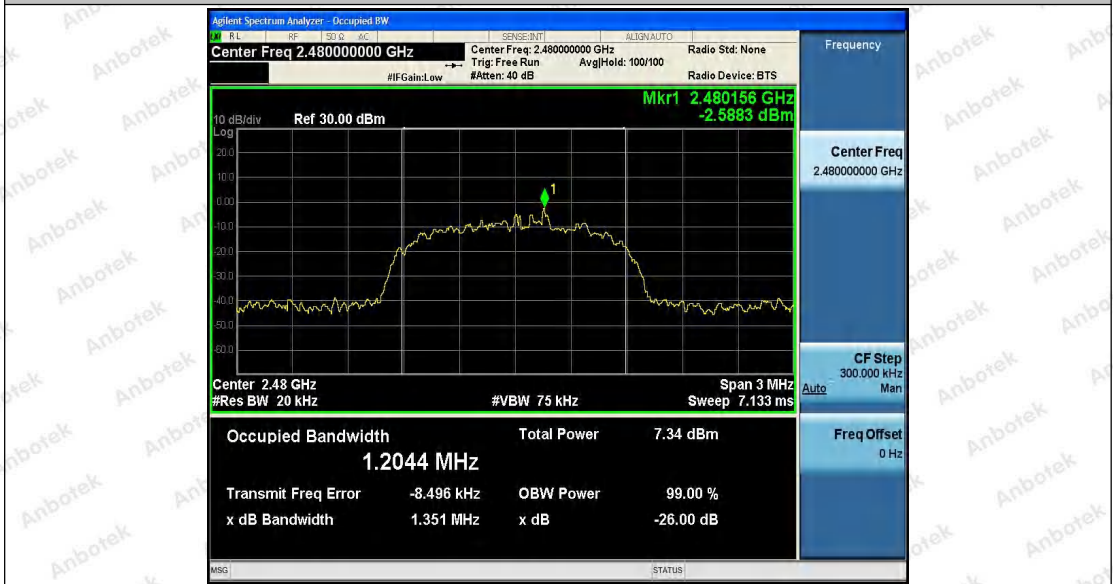
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3DH5_Ant1_2480



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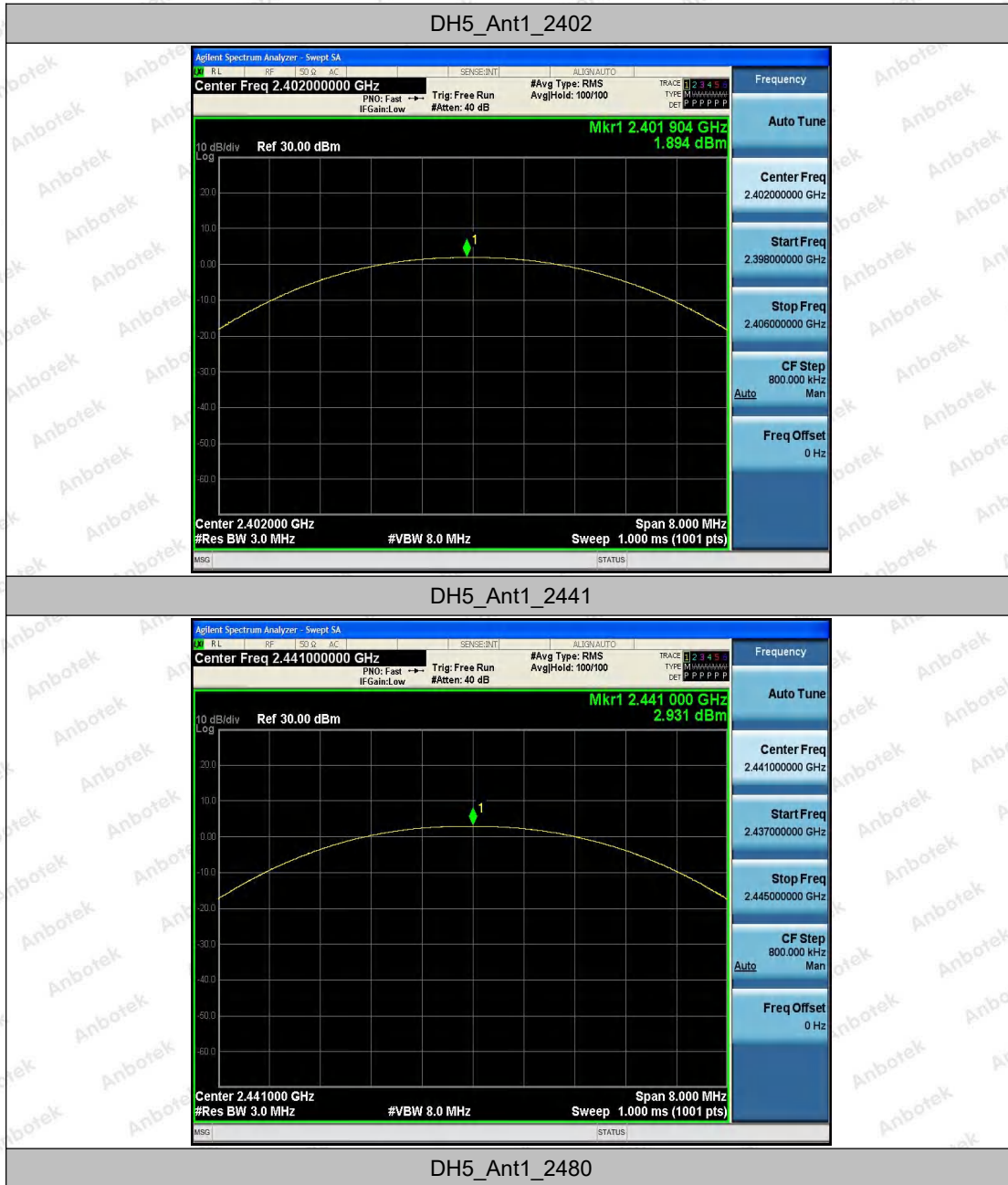
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.89	≤30	PASS
		2441	2.93	≤30	PASS
		2480	2.69	≤30	PASS
2DH5	Ant1	2402	1.29	≤20.97	PASS
		2441	2.18	≤20.97	PASS
		2480	2.08	≤20.97	PASS
3DH5	Ant1	2402	1.47	≤20.97	PASS
		2441	2.37	≤20.97	PASS
		2480	2.09	≤20.97	PASS

Test Graphs



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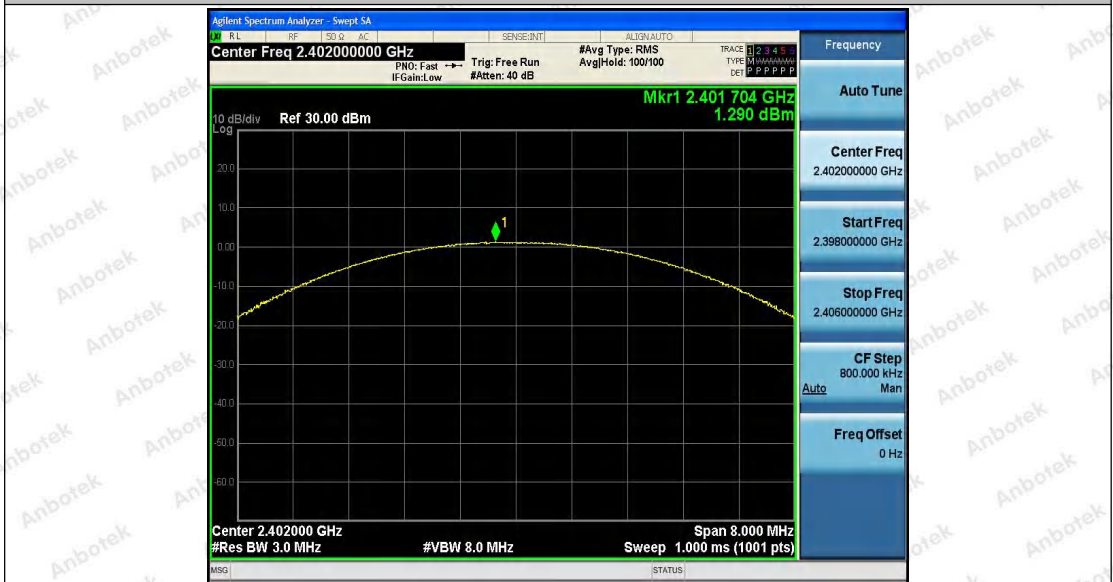
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2DH5_Ant1_2402



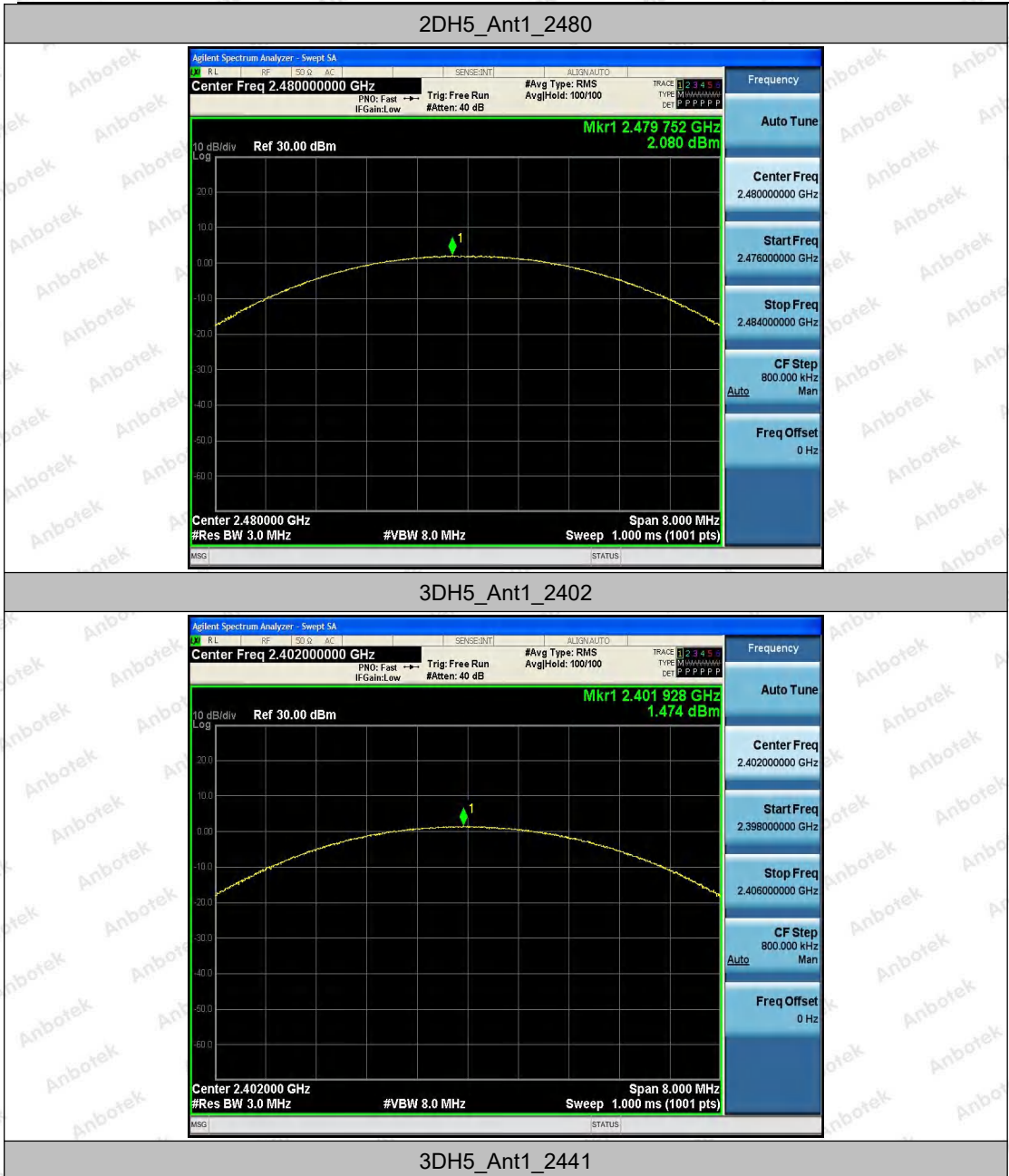
2DH5_Ant1_2441



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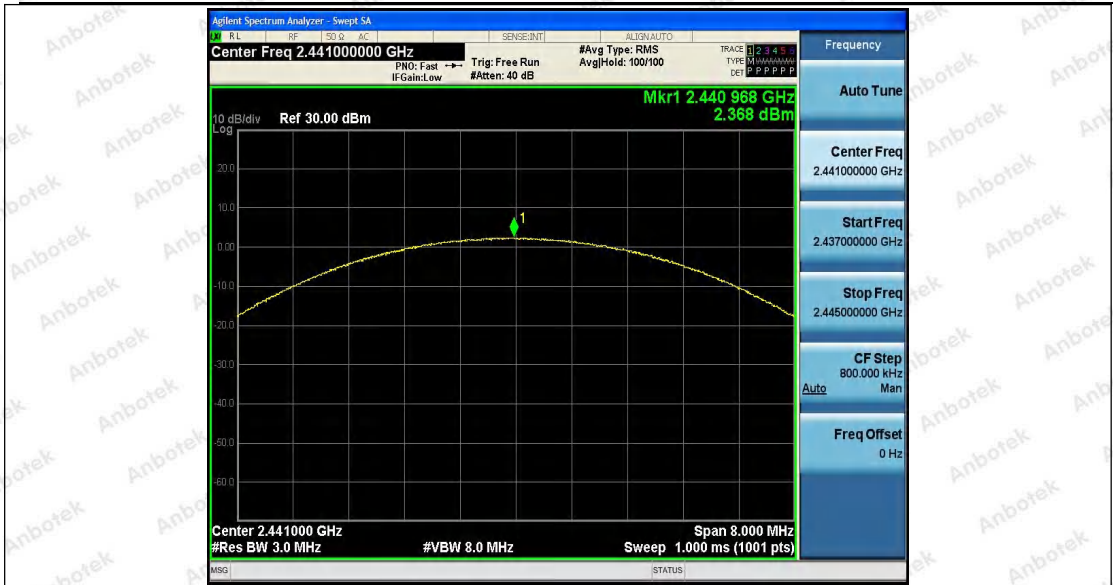
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.698	≥ 0.632	PASS
2DH5	Ant1	Hop	1.1	≥ 0.894	PASS
3DH5	Ant1	Hop	1.012	≥ 0.894	PASS

Test Graphs

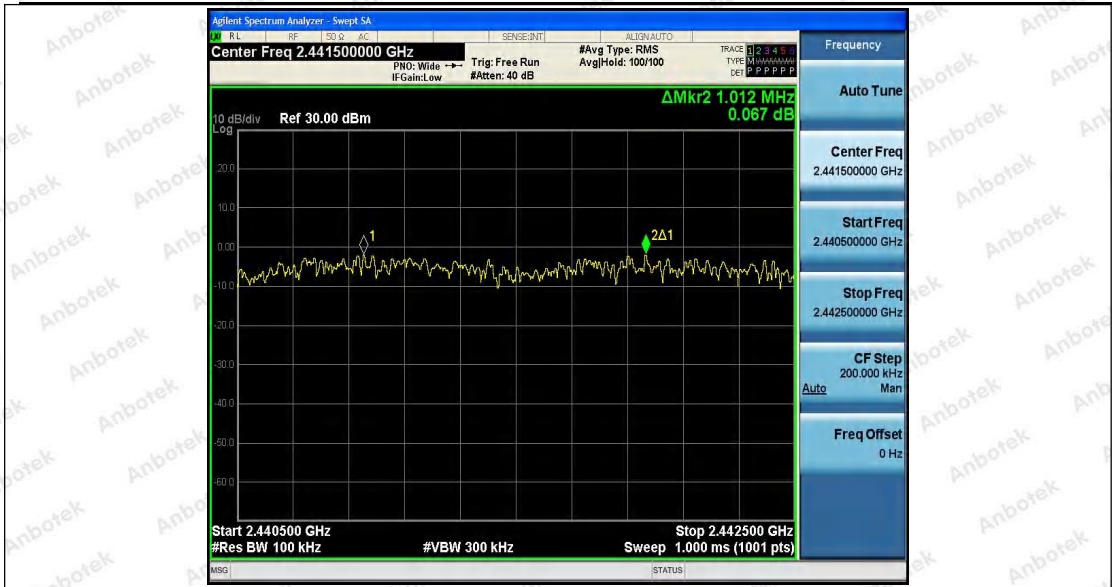


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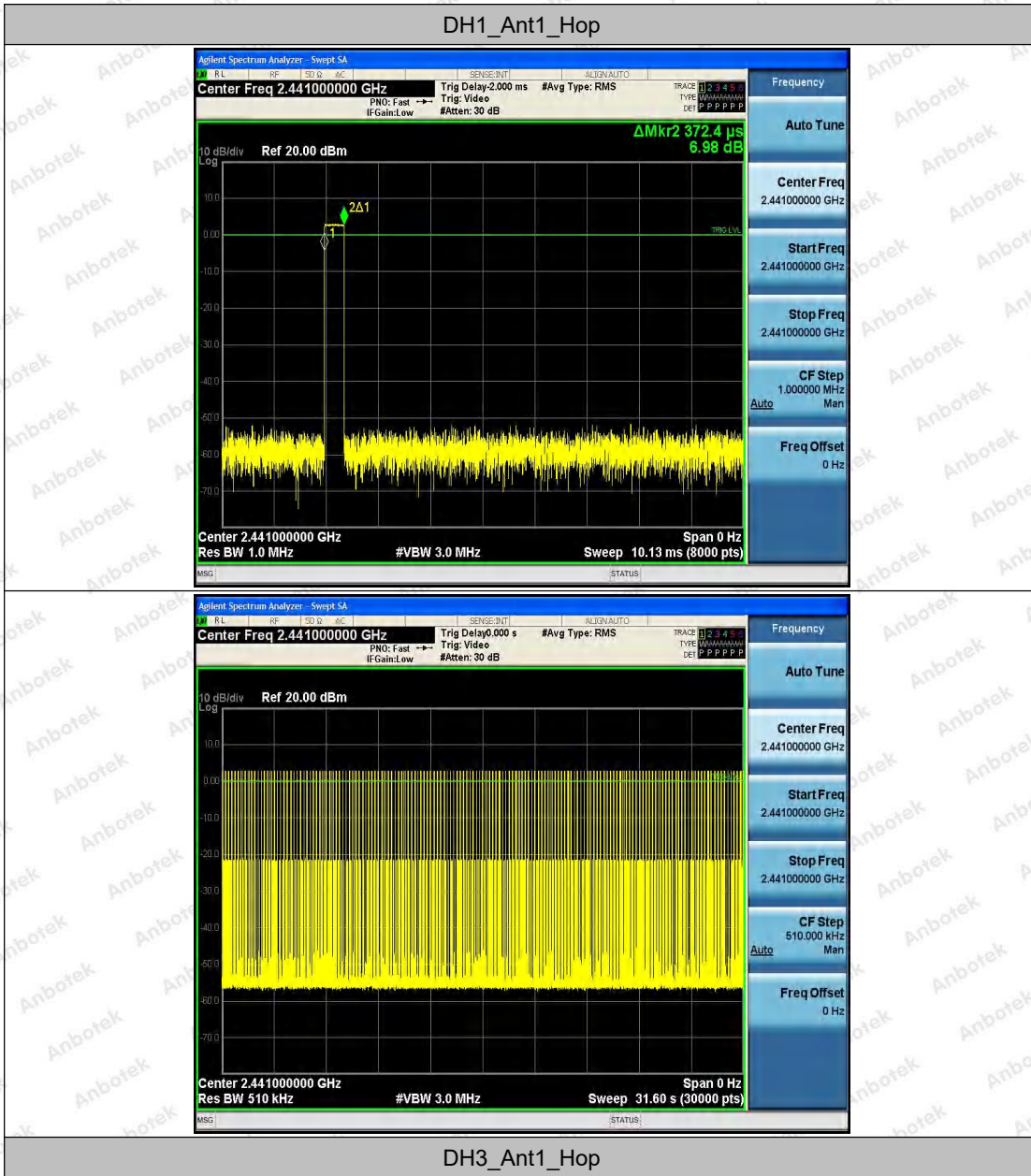
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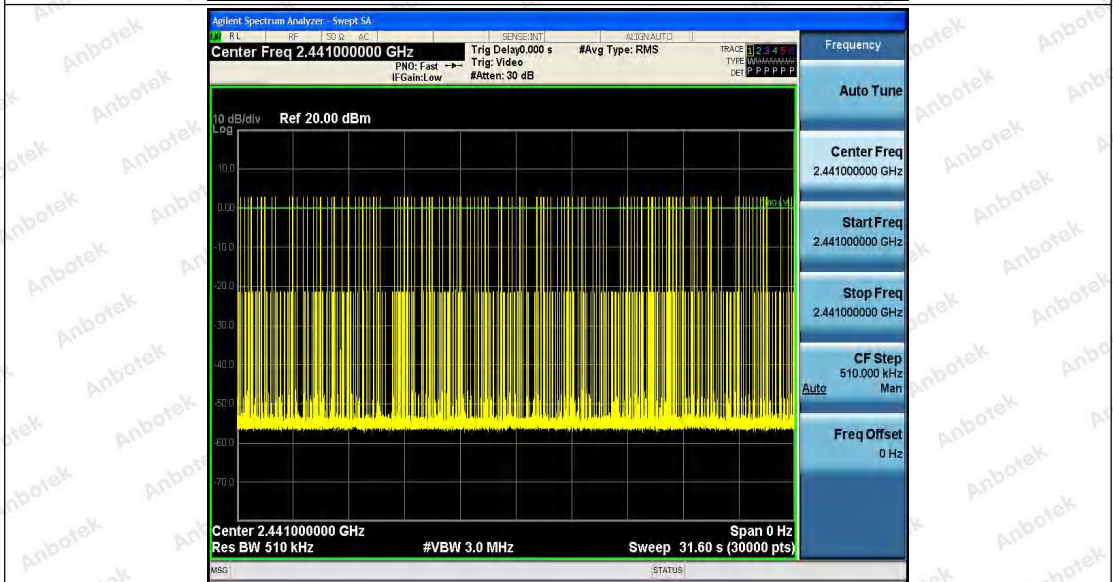
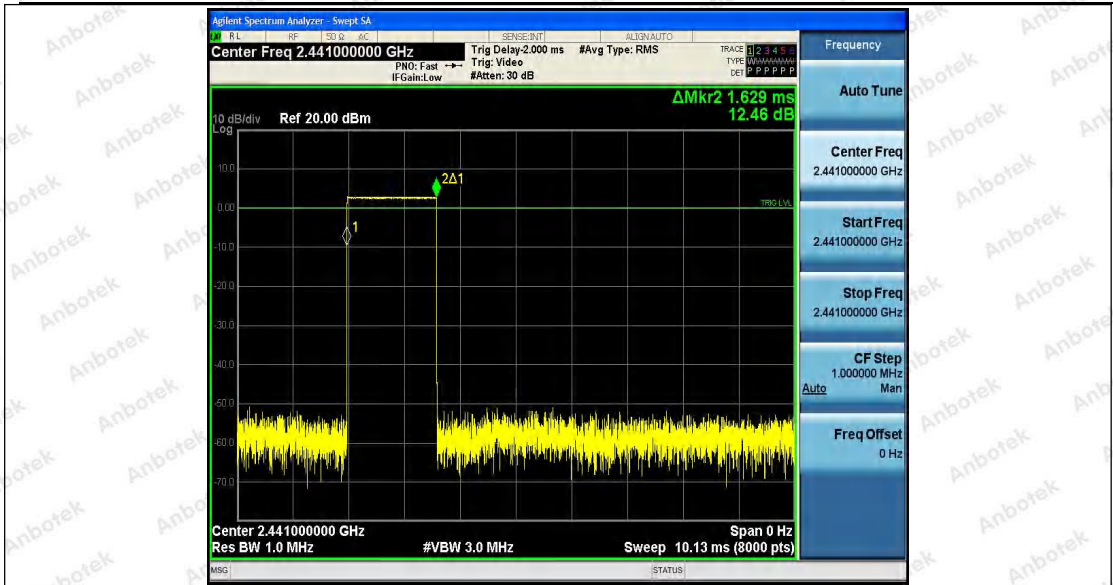
Appendix E: Time of occupancy

Test Result

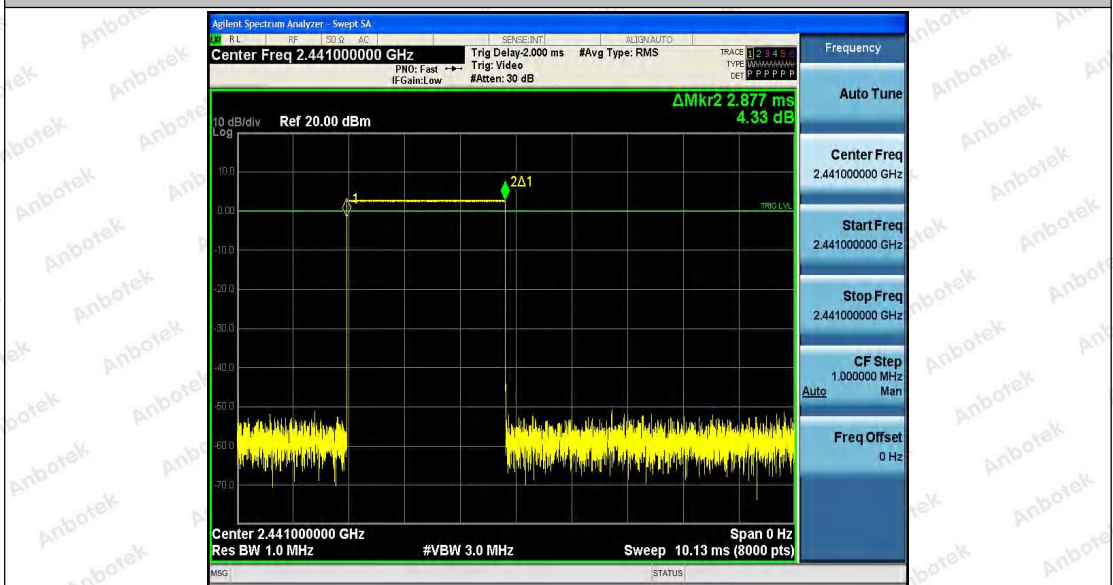
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	92	0.265	≤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	102	0.294	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

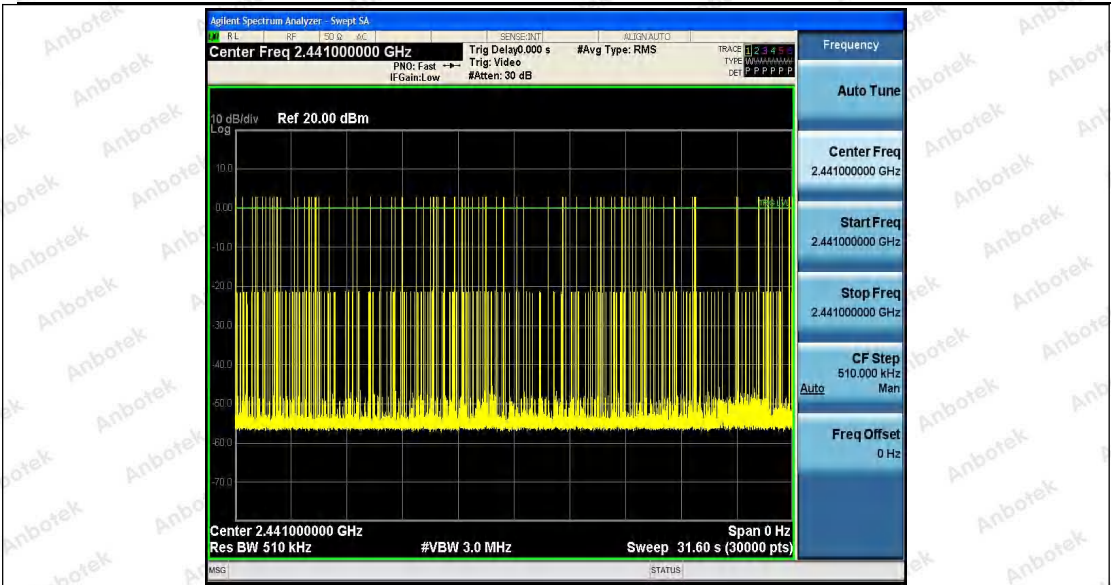


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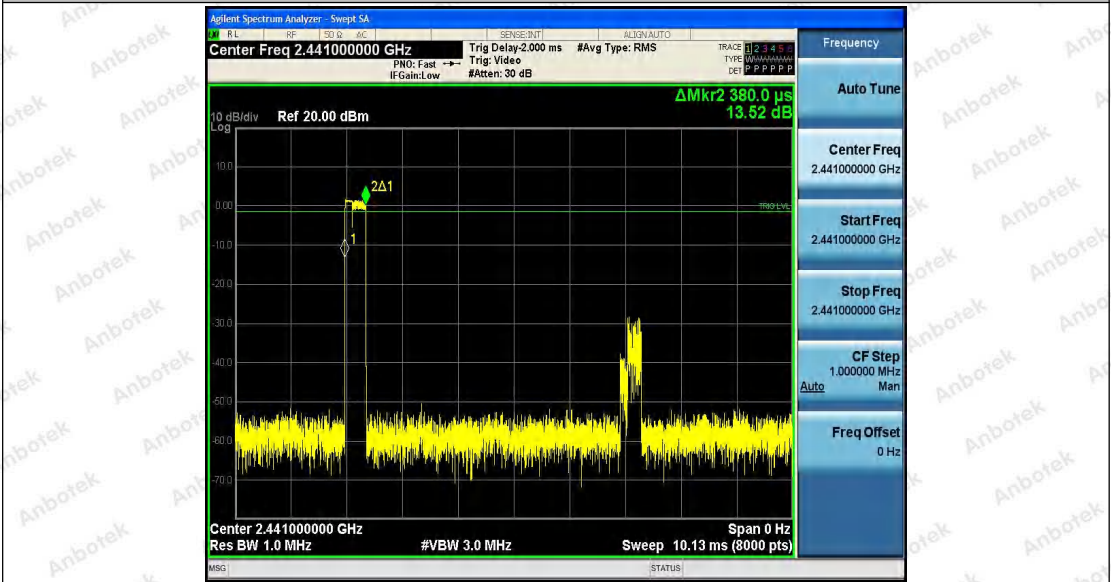
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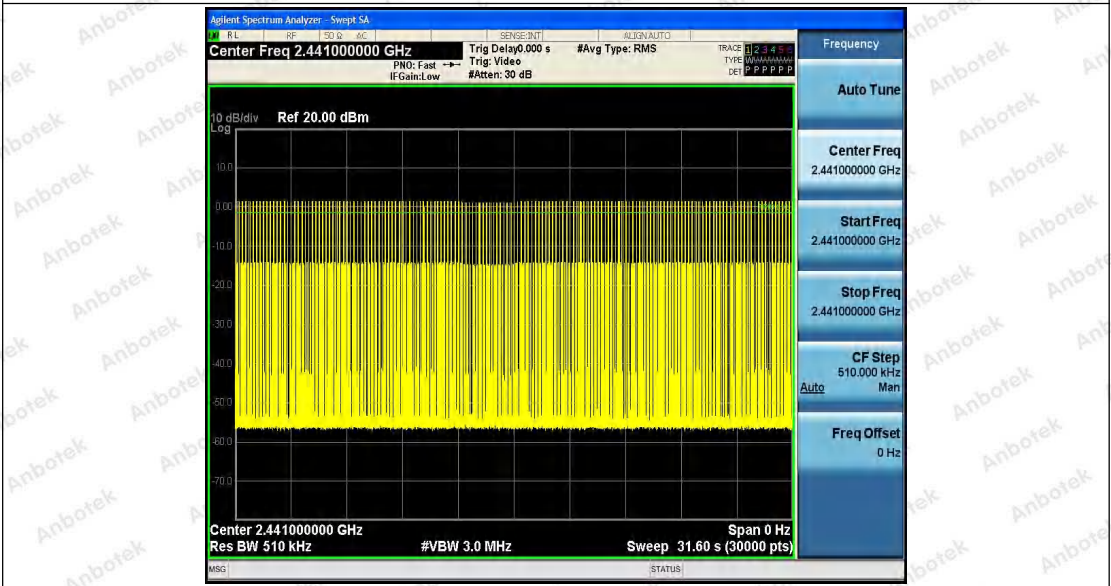
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2DH1_Ant1_Hop



2DH3_Ant1_Hop



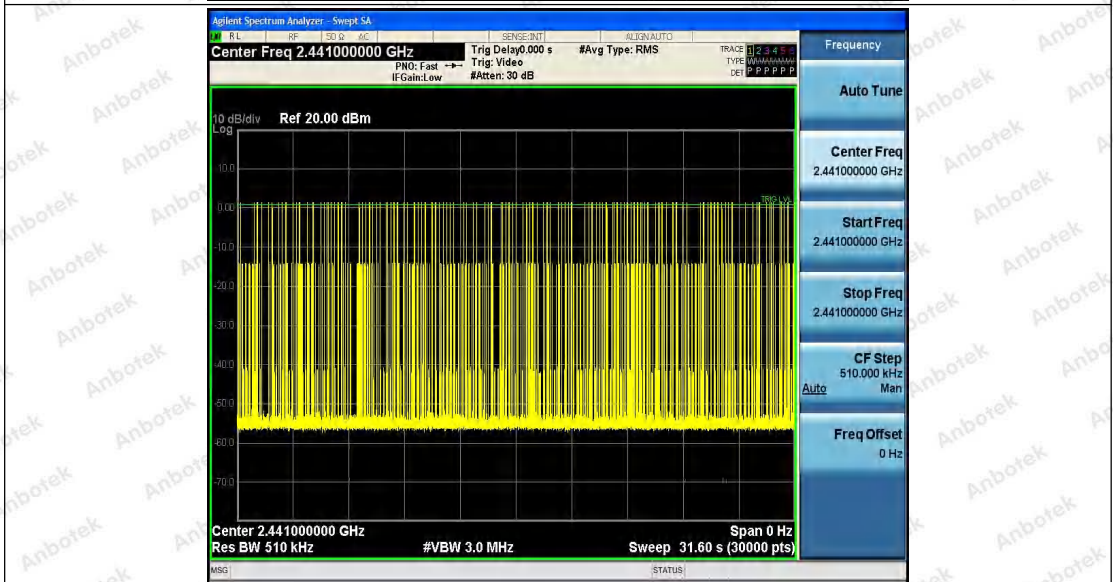
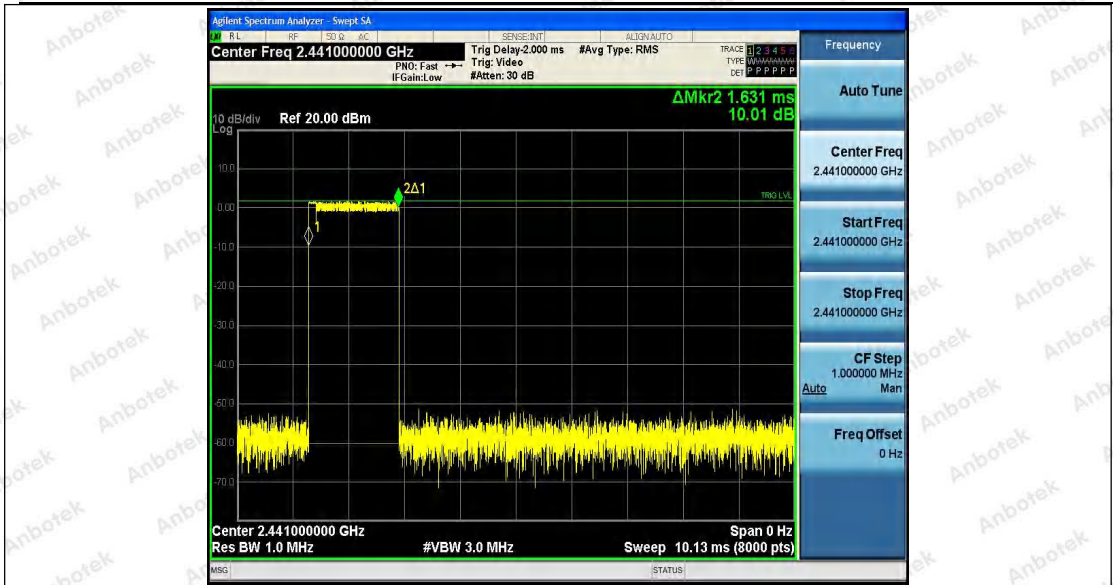
2DH3_Ant1_Hop

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2DH5_Ant1_Hop



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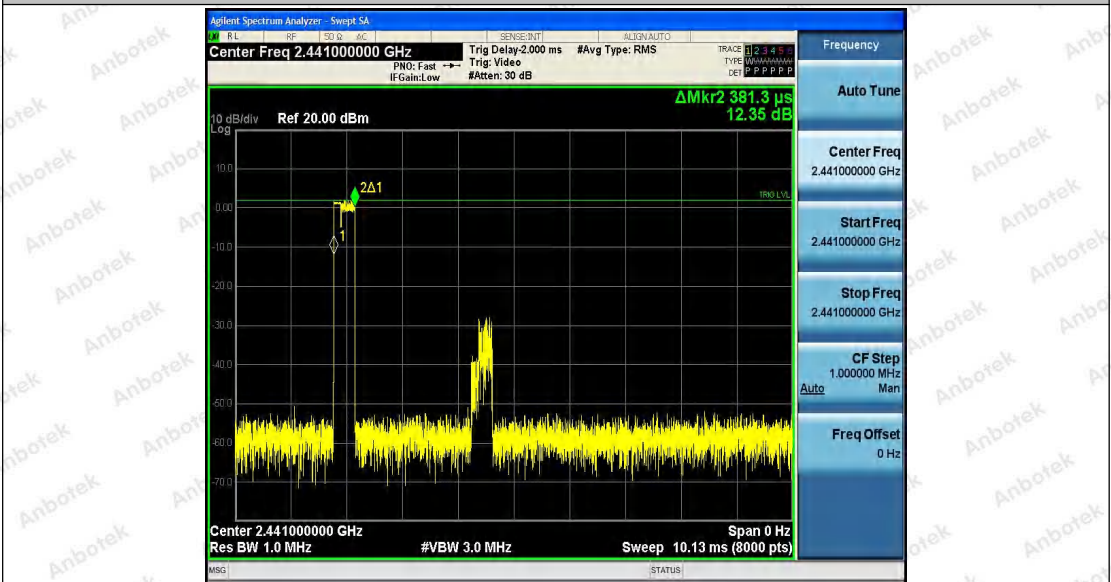
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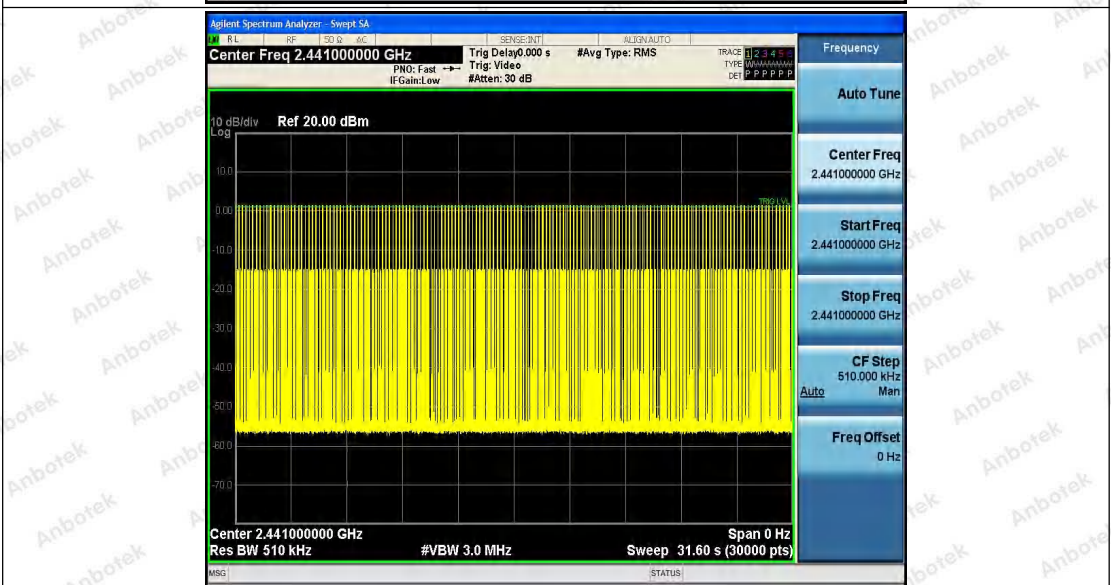
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3DH1_Ant1_Hop



3DH1_Ant1_Hop



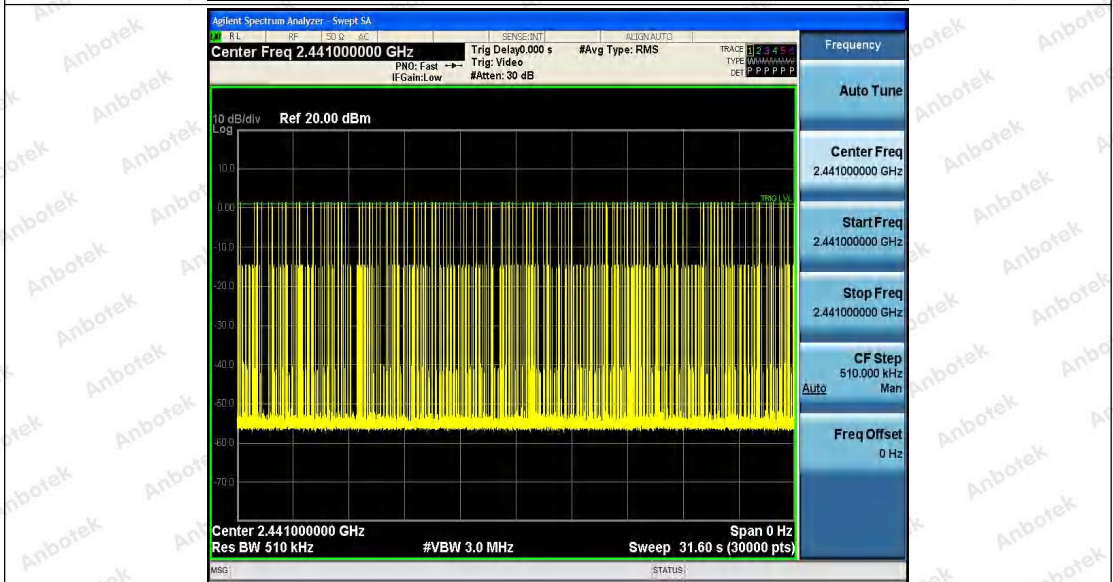
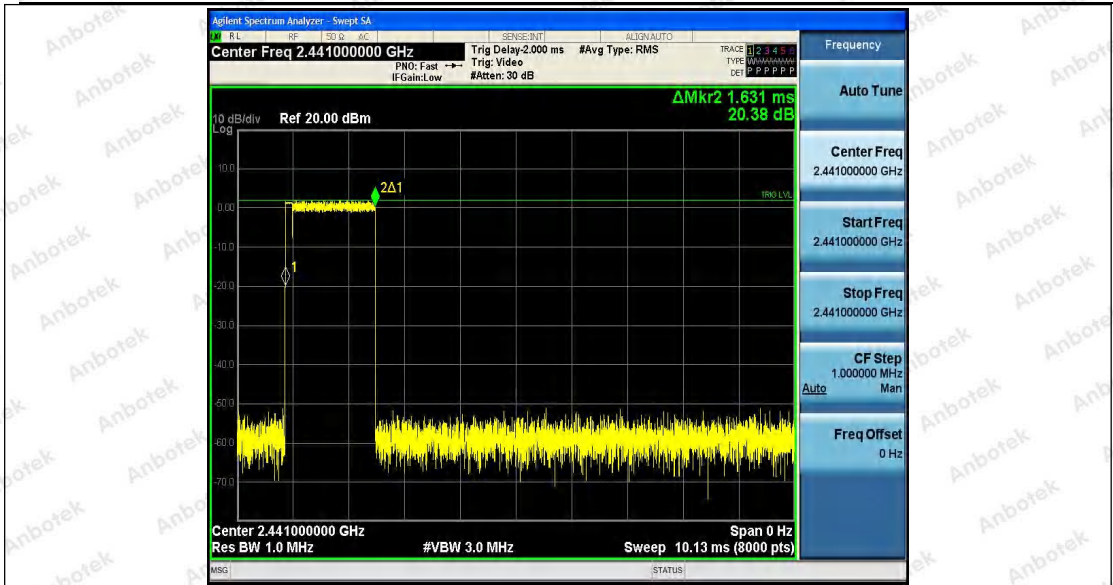
3DH3_Ant1_Hop

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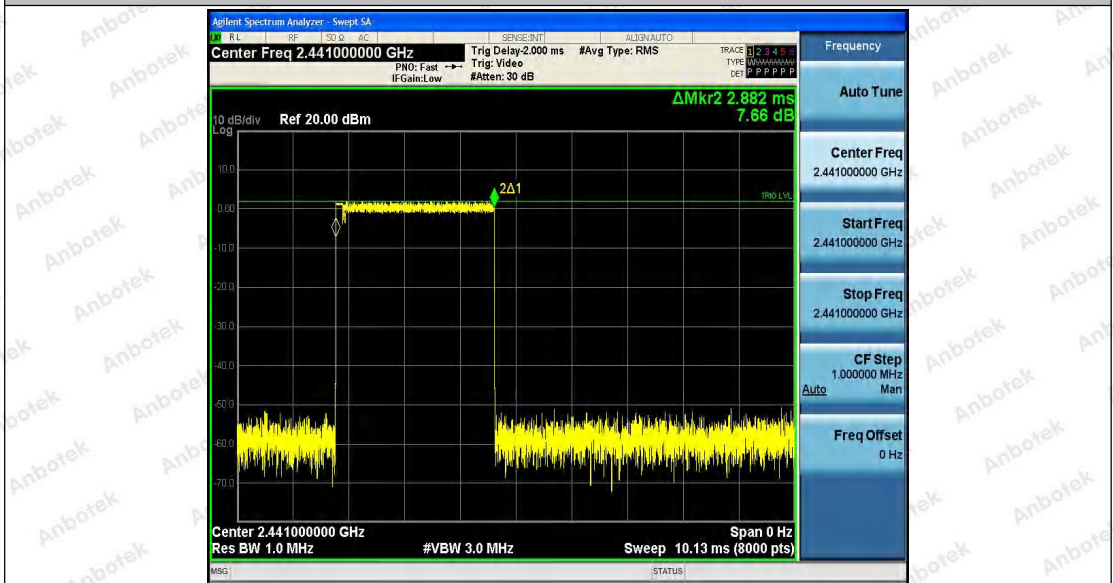
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3DH5_Ant1_Hop

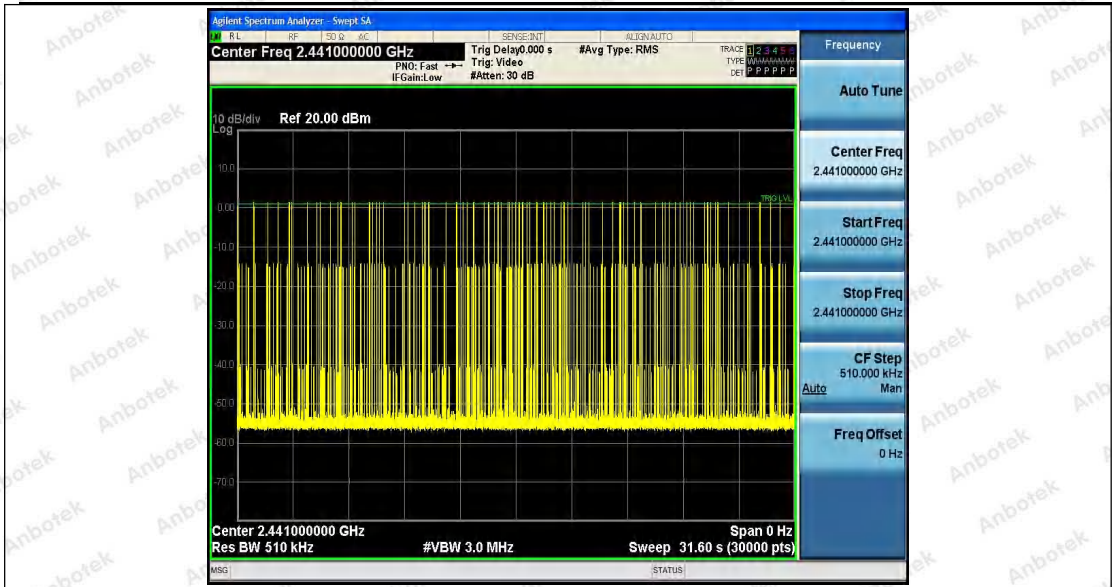


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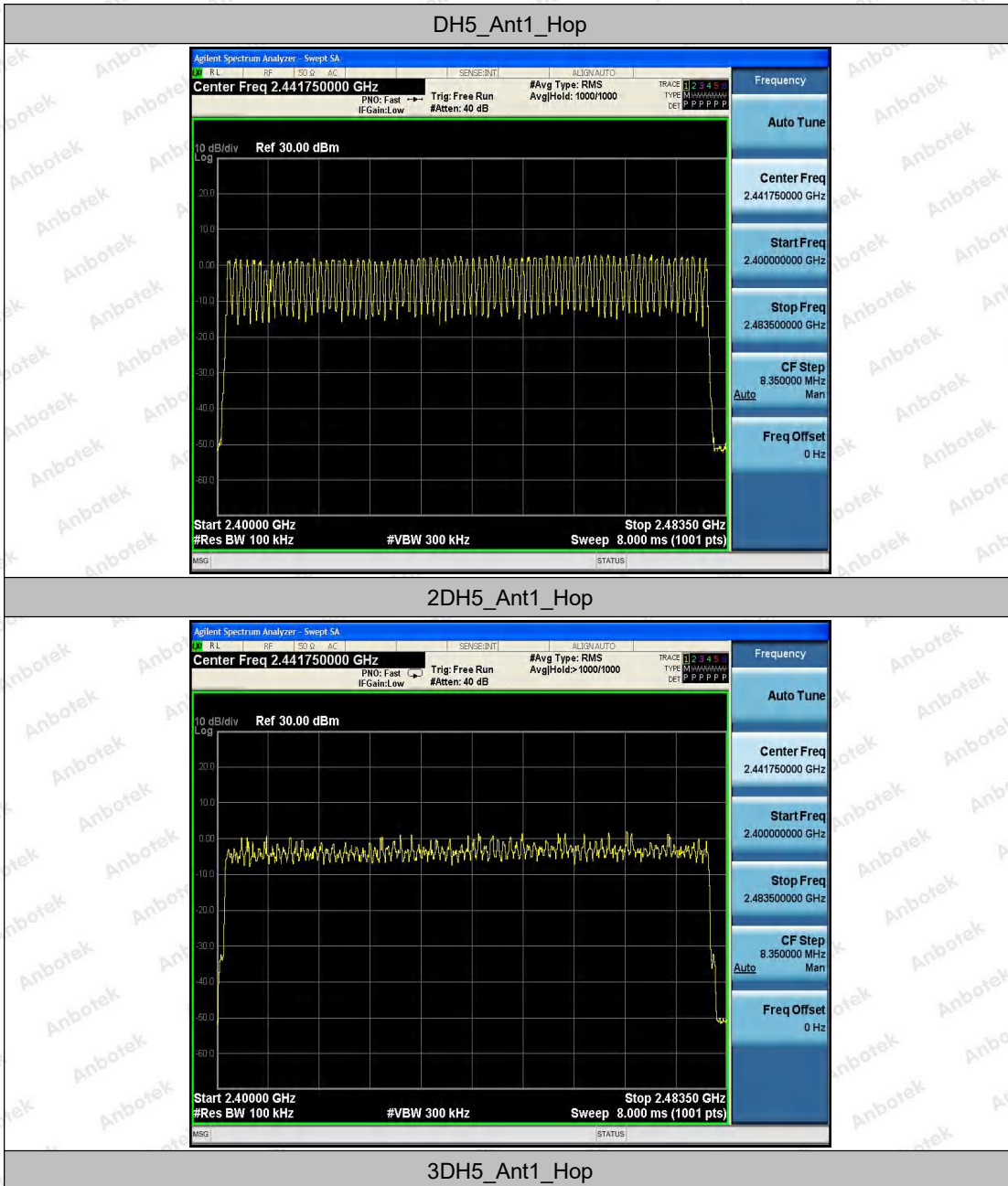
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Appendix F: Number of hopping channels

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

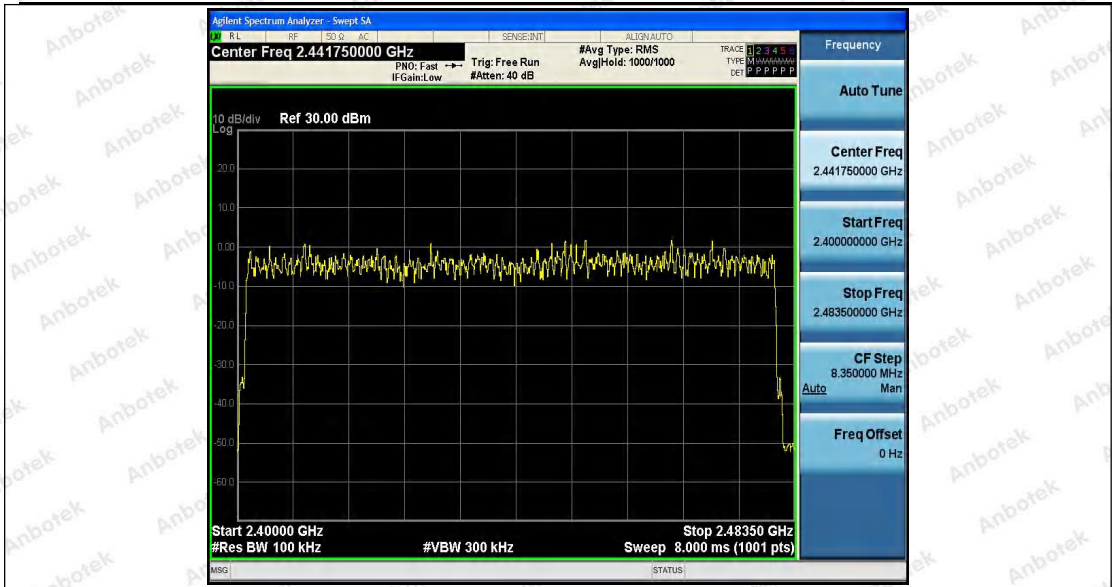


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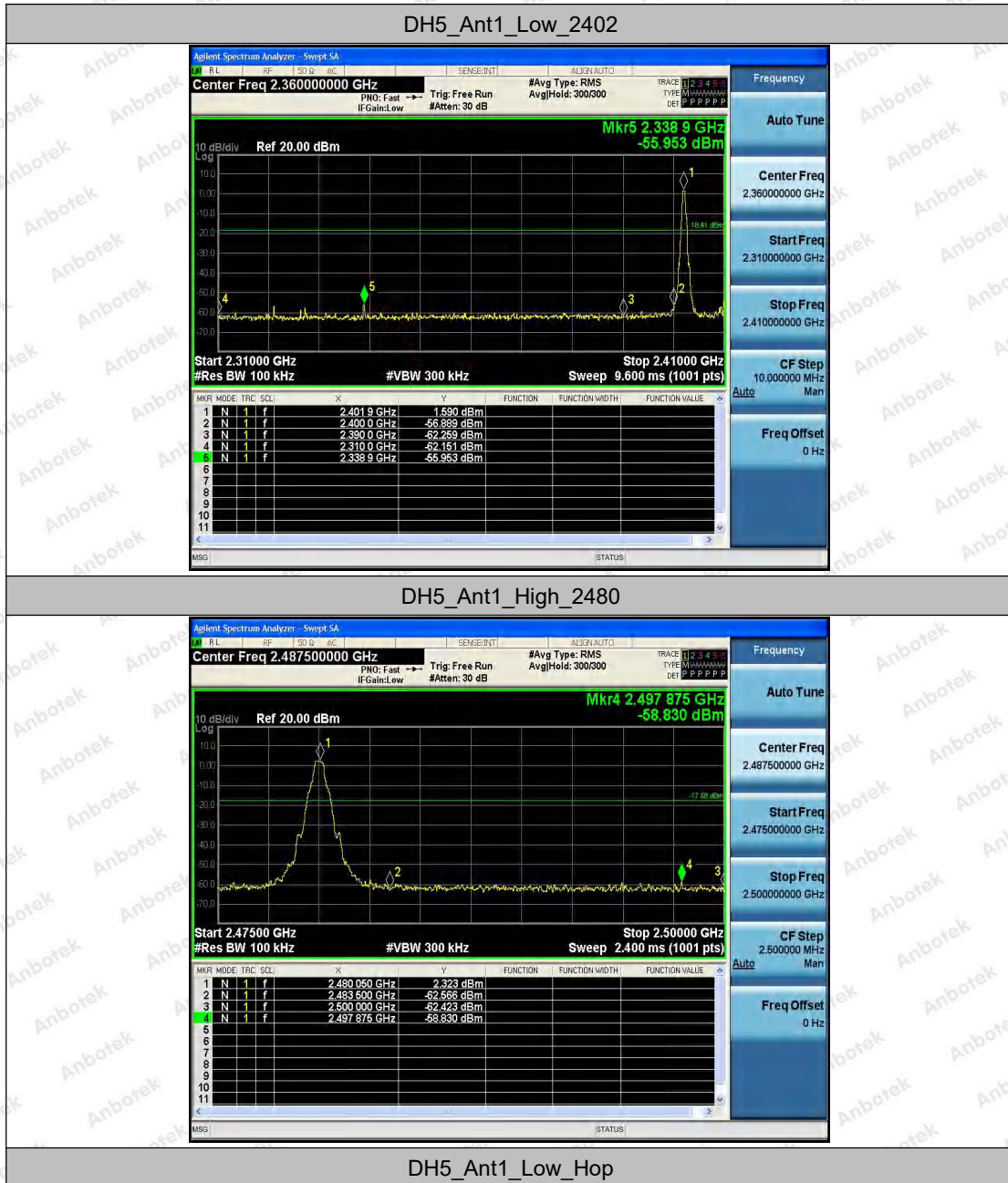
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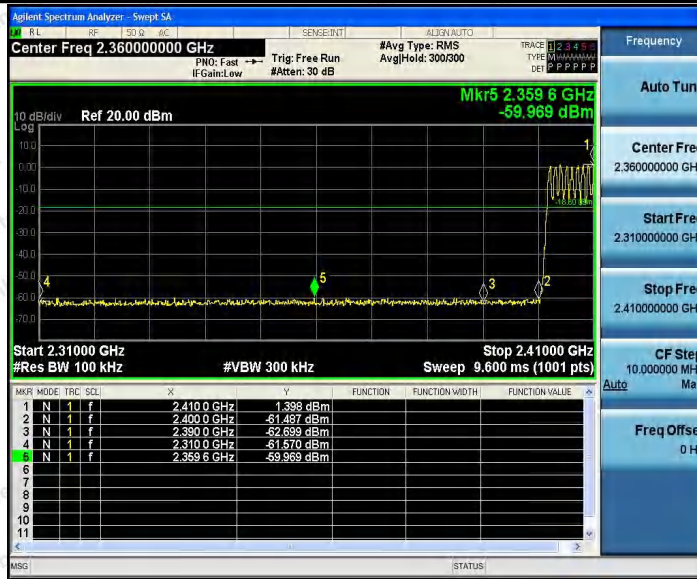
Appendix G: Band edge measurements

Test Result

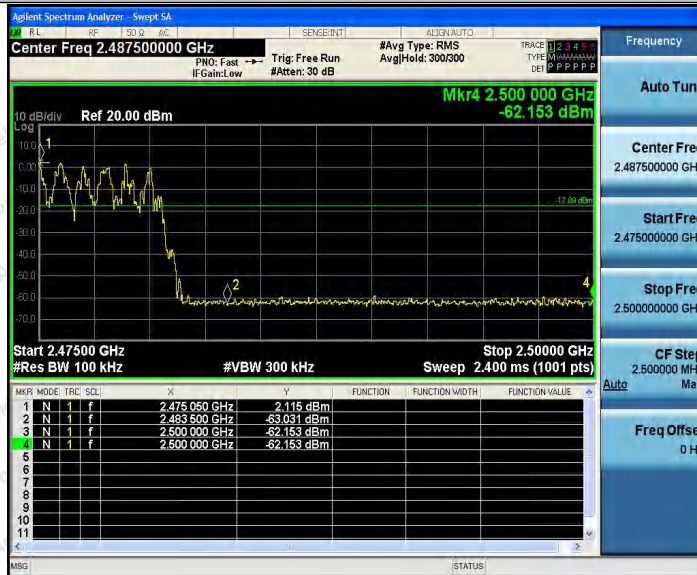
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.59	-55.95	≤-18.41	PASS
		High	2480	2.32	-58.83	≤-17.68	PASS
		Low	Hop	1.40	-59.97	≤-18.6	PASS
		High	Hop	2.12	-62.15	≤-17.89	PASS
2DH5	Ant1	Low	2402	0.47	-54.85	≤-19.53	PASS
		High	2480	1.32	-58.92	≤-18.68	PASS
		Low	Hop	-0.44	-59.75	≤-20.44	PASS
		High	Hop	1.20	-60.97	≤-18.8	PASS
3DH5	Ant1	Low	2402	-0.48	-53.92	≤-20.48	PASS
		High	2480	-0.47	-58.42	≤-20.47	PASS
		Low	Hop	0.42	-58.48	≤-19.58	PASS
		High	Hop	0.16	-60.78	≤-19.84	PASS

Test Graphs

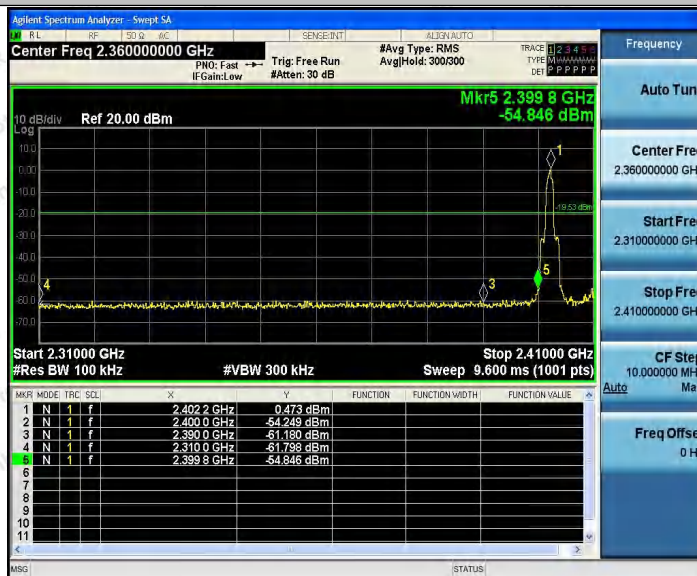




DH5_Ant1_High_Hop



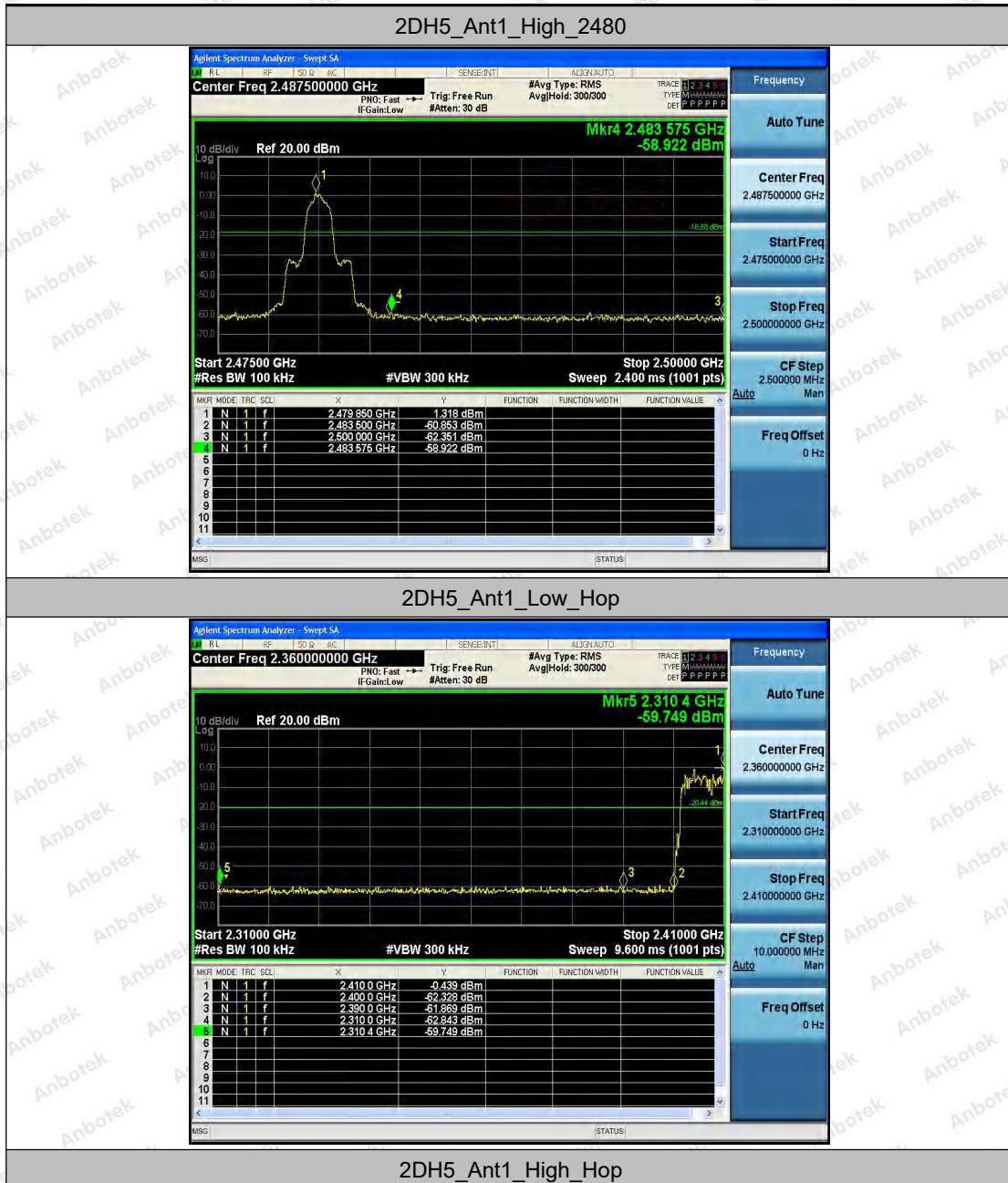
2DH5_Ant1_Low_2402



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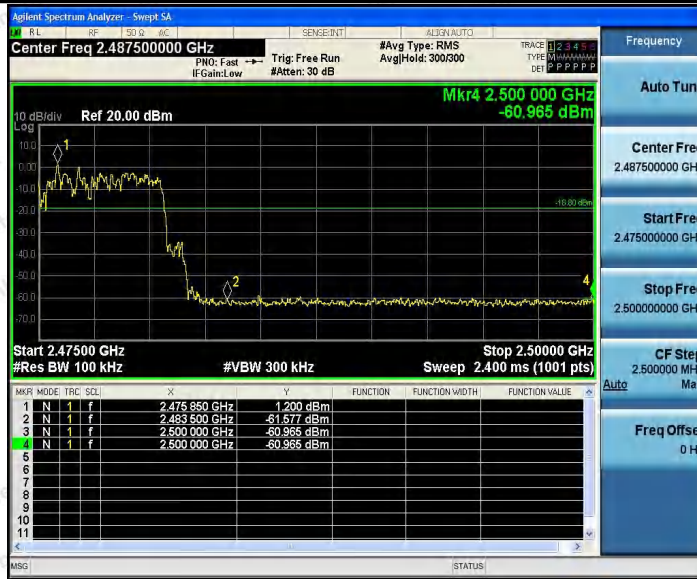


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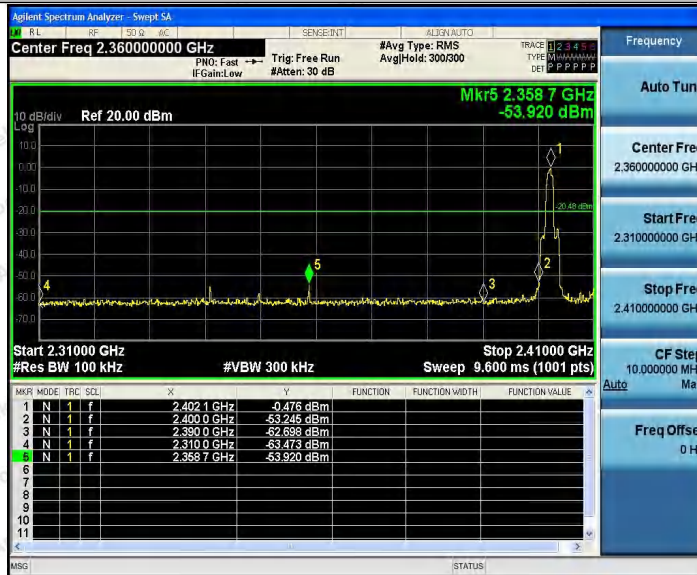
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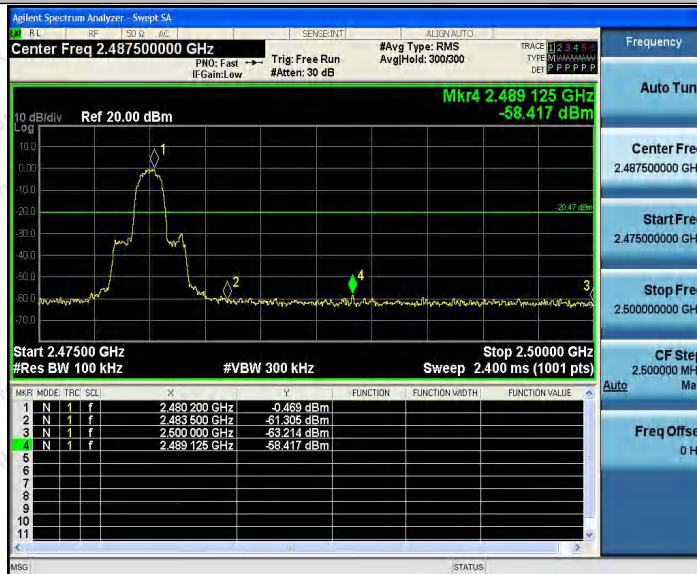
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

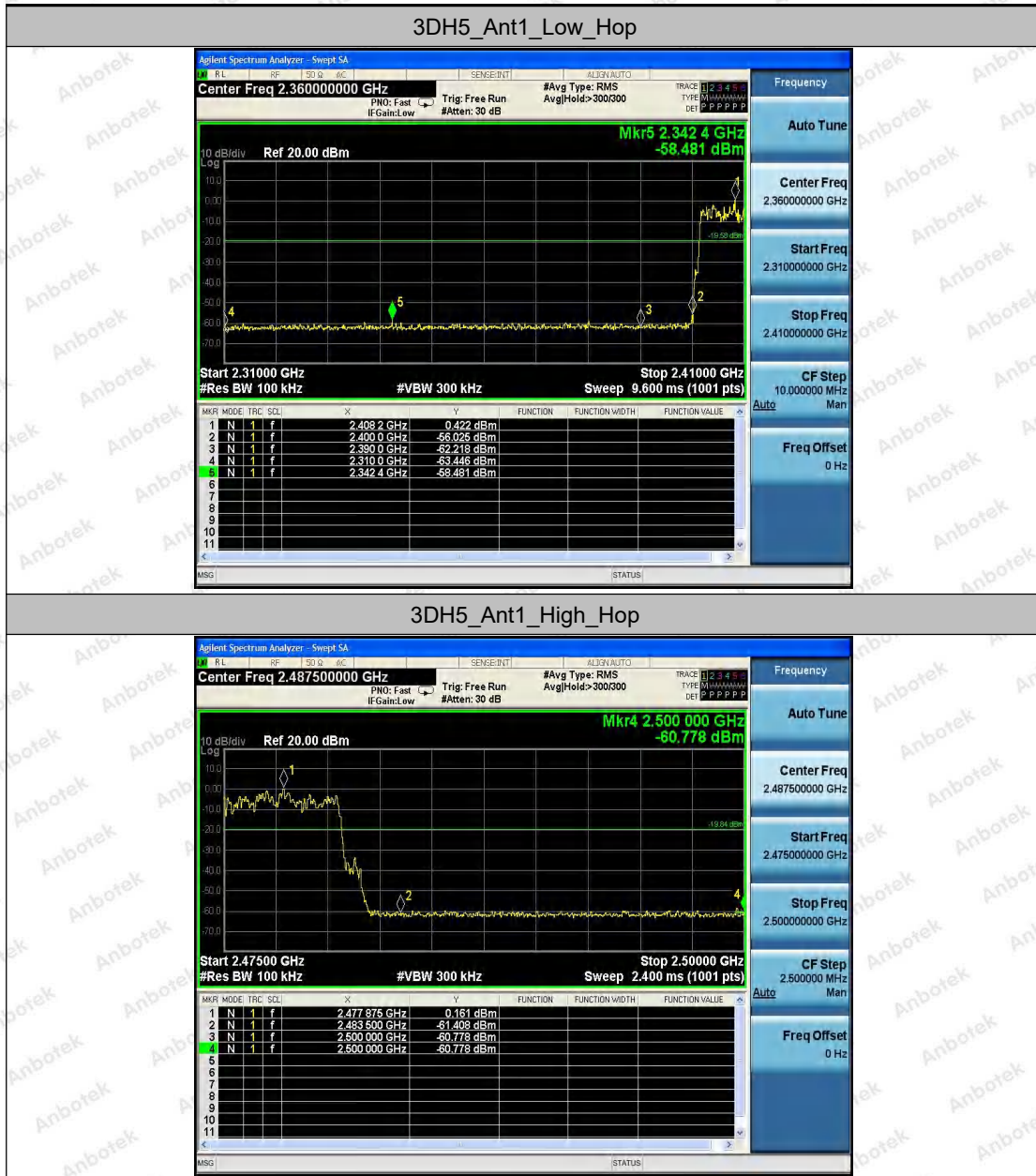


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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-55.63	≤-18.83	PASS
			1000~26500	1.17	-55.36	≤-18.83	PASS
		2441	Reference	2.12	2.12	---	PASS
			30~1000	2.12	-48.36	≤-17.88	PASS
			1000~26500	2.12	-55.9	≤-17.88	PASS
		2480	Reference	2.47	2.47	---	PASS
			30~1000	2.47	-52.64	≤-17.53	PASS
			1000~26500	2.47	-55.33	≤-17.53	PASS
2DH5	Ant1	2402	Reference	0.48	0.48	---	PASS
			30~1000	0.48	-52.18	≤-19.52	PASS
			1000~26500	0.48	-55.07	≤-19.52	PASS
		2441	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-53.26	≤-18.89	PASS
			1000~26500	1.11	-55.71	≤-18.89	PASS
		2480	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-51.78	≤-18.83	PASS
			1000~26500	1.17	-55.51	≤-18.83	PASS
3DH5	Ant1	2402	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-54.71	≤-20.25	PASS
			1000~26500	-0.25	-55.19	≤-20.25	PASS
		2441	Reference	0.65	0.65	---	PASS
			30~1000	0.65	-56.61	≤-19.35	PASS
			1000~26500	0.65	-55.43	≤-19.35	PASS
		2480	Reference	0.99	0.99	---	PASS
			30~1000	0.99	-49.02	≤-19.01	PASS
			1000~26500	0.99	-53.08	≤-19.01	PASS

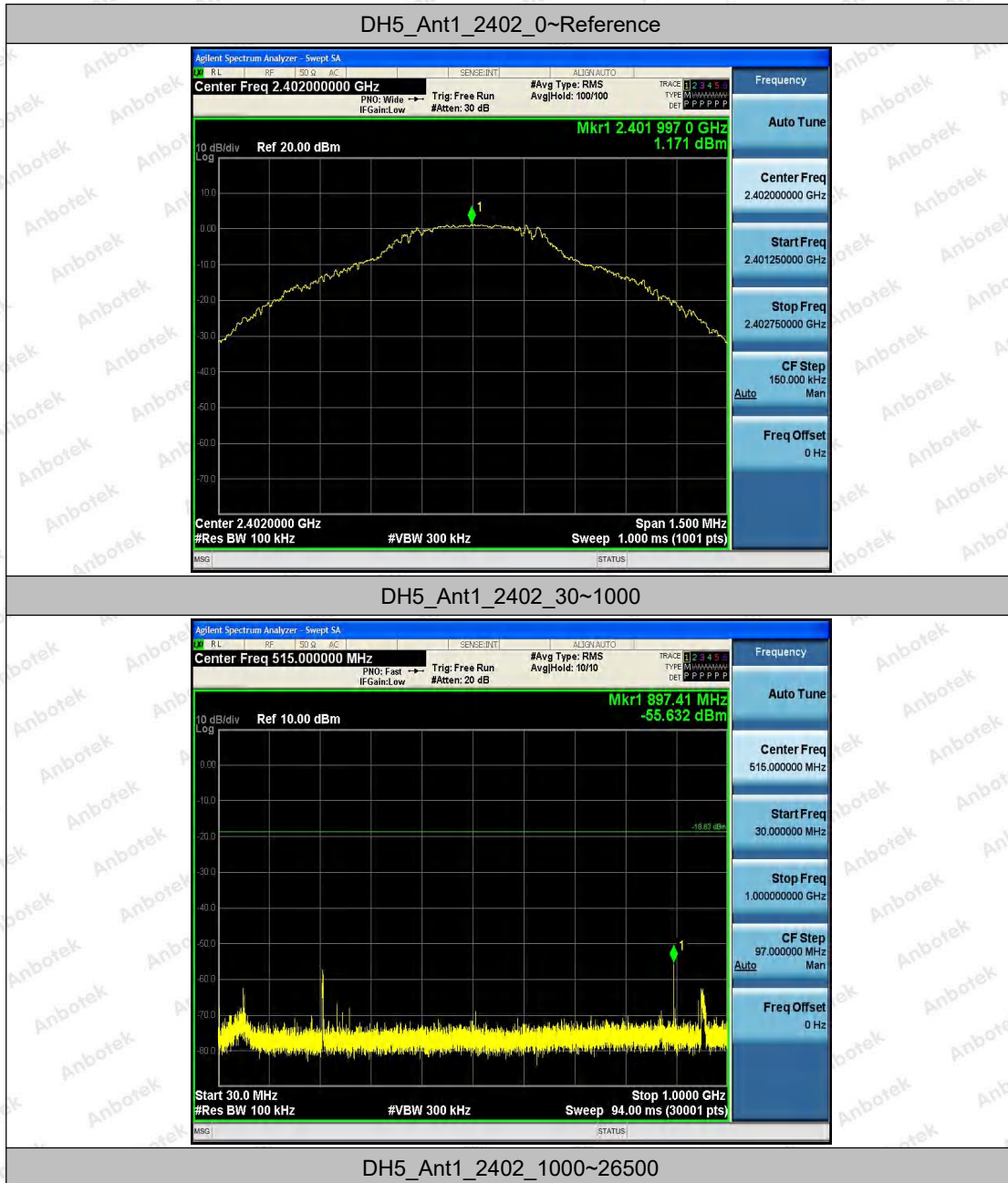
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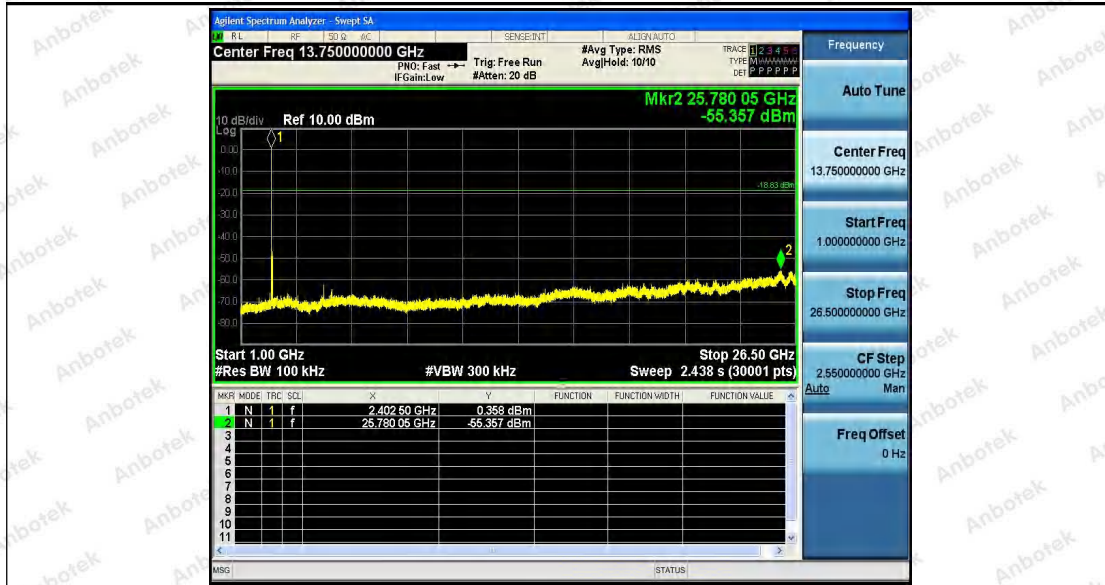
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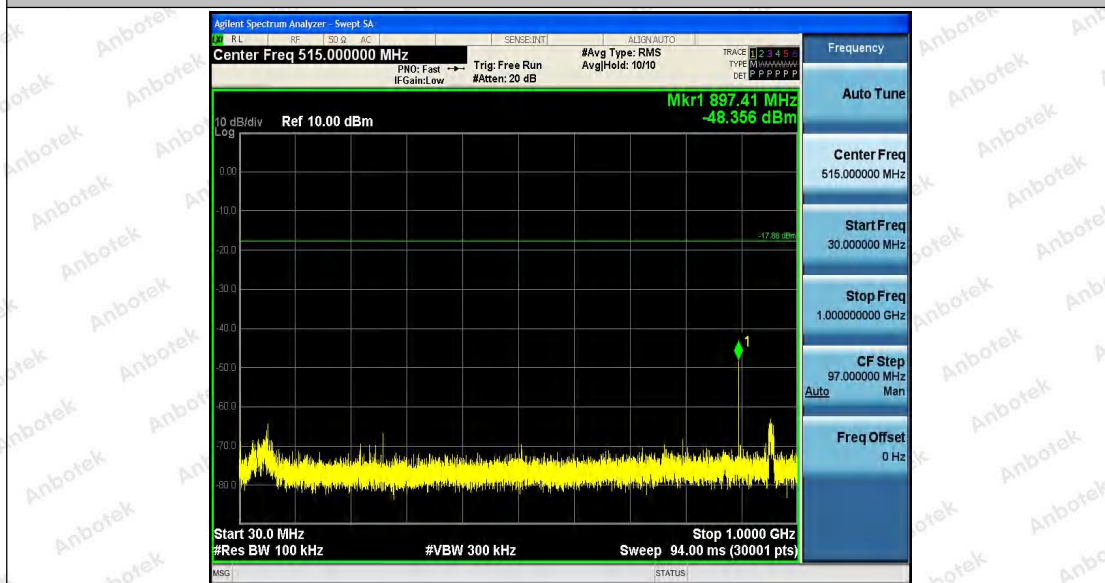
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

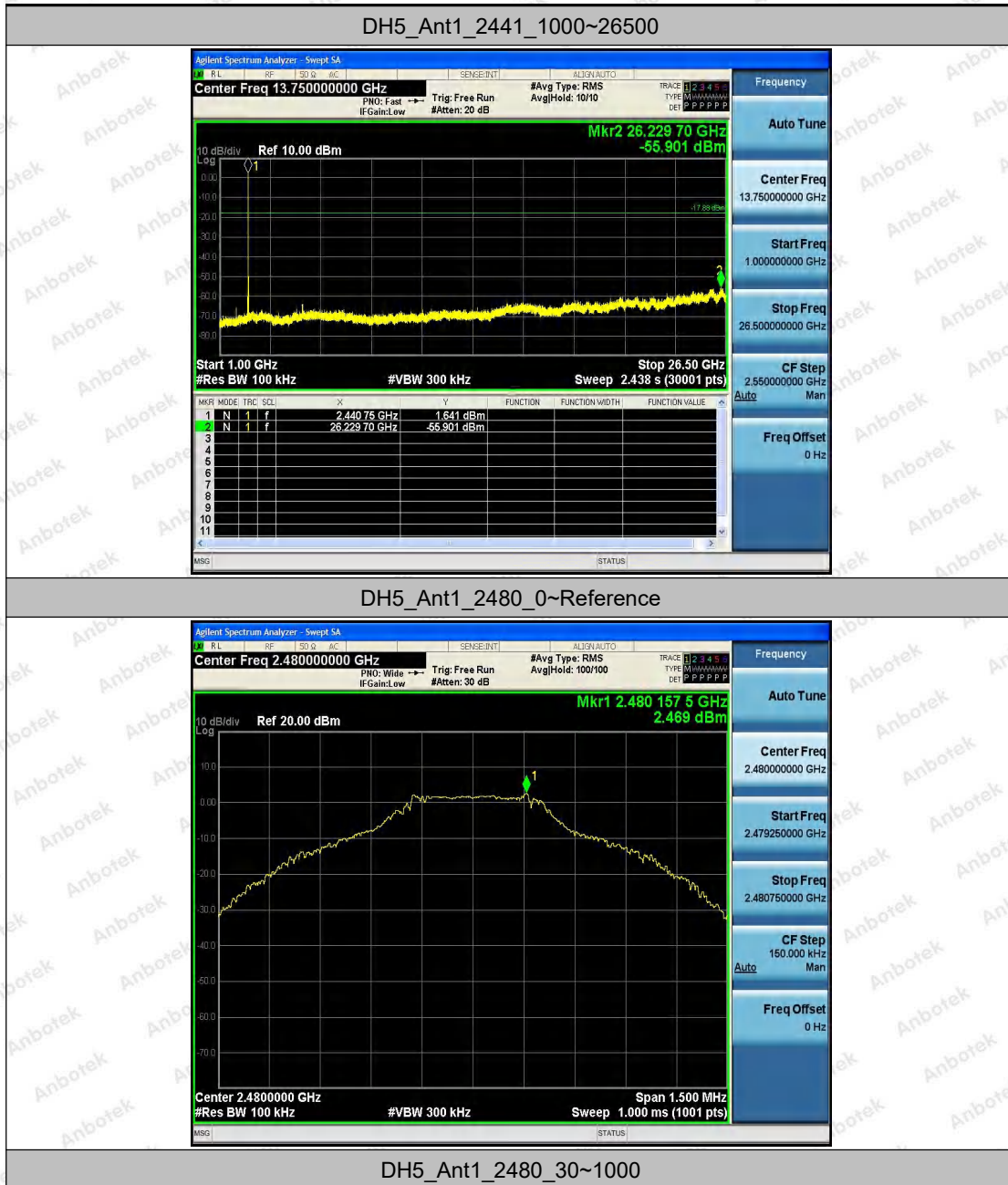


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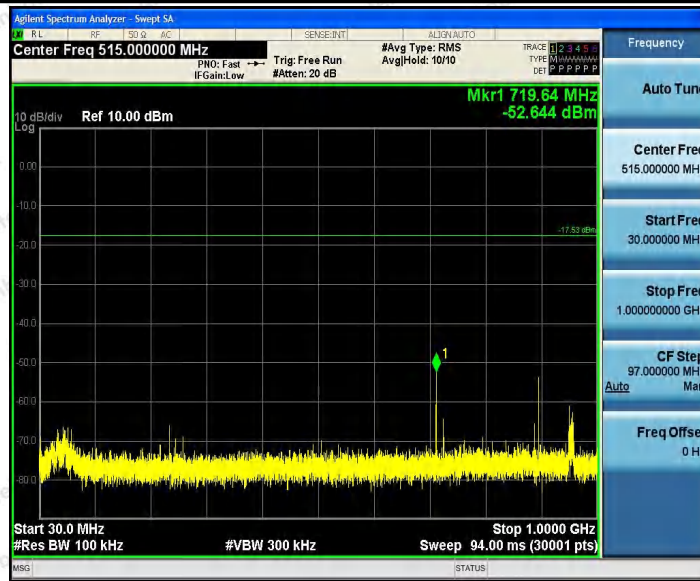


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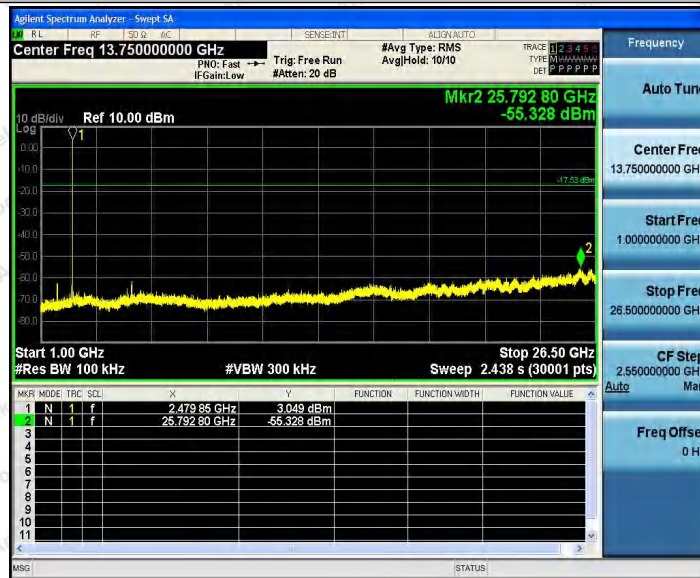
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

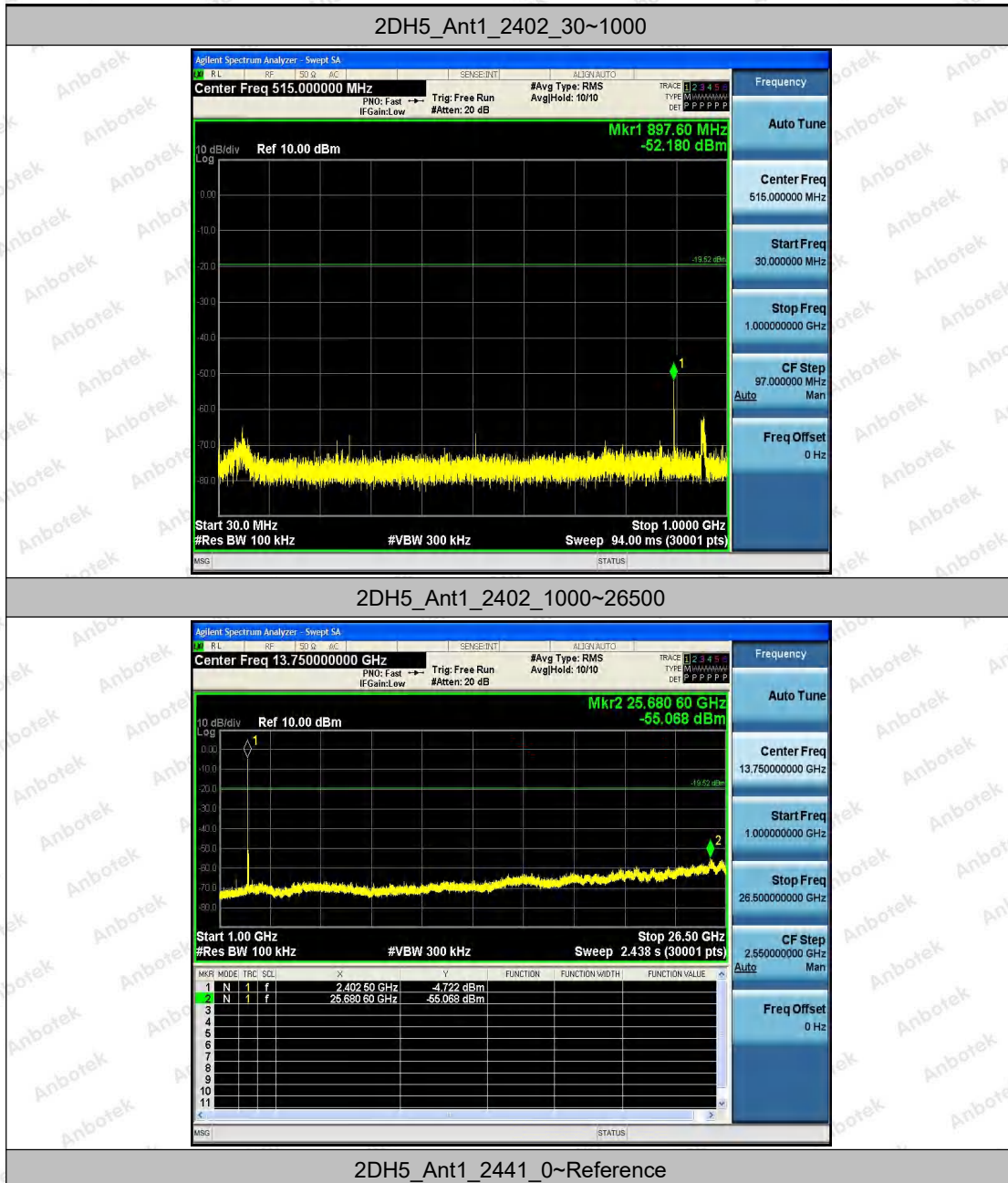


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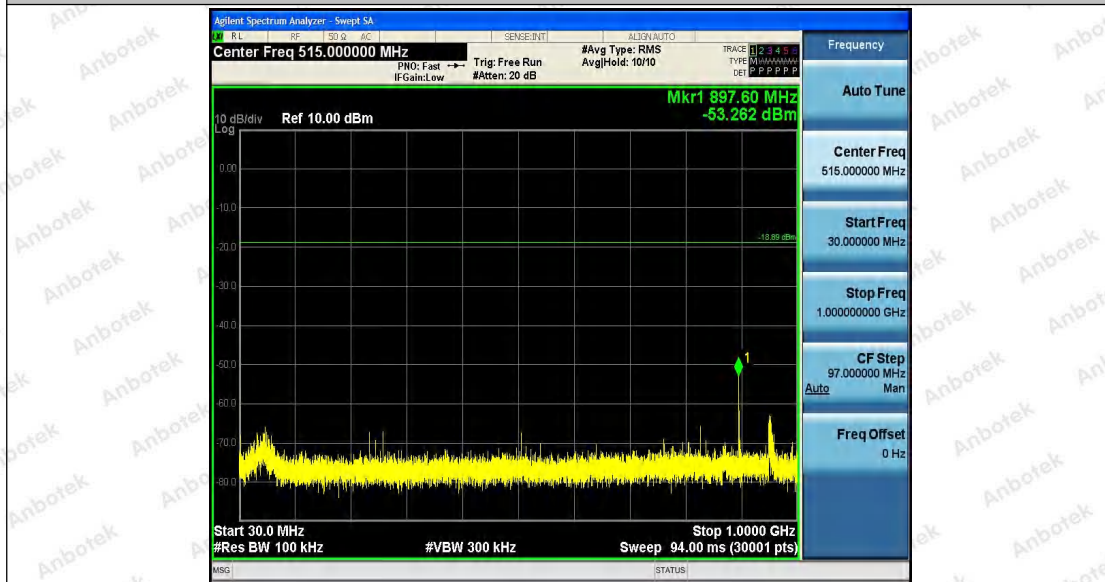
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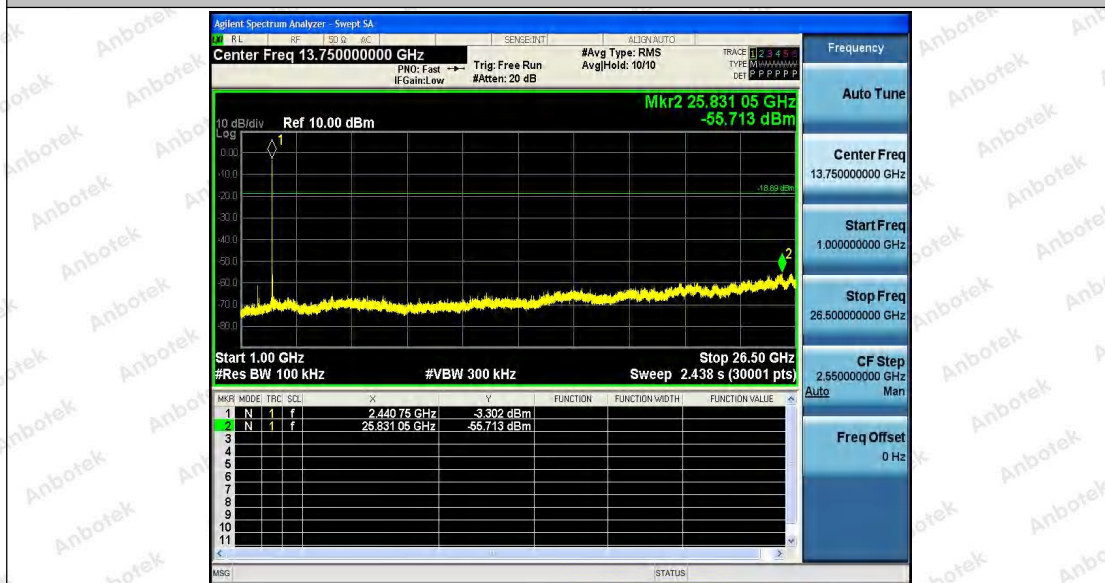
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2DH5_Ant1_2441_30~1000



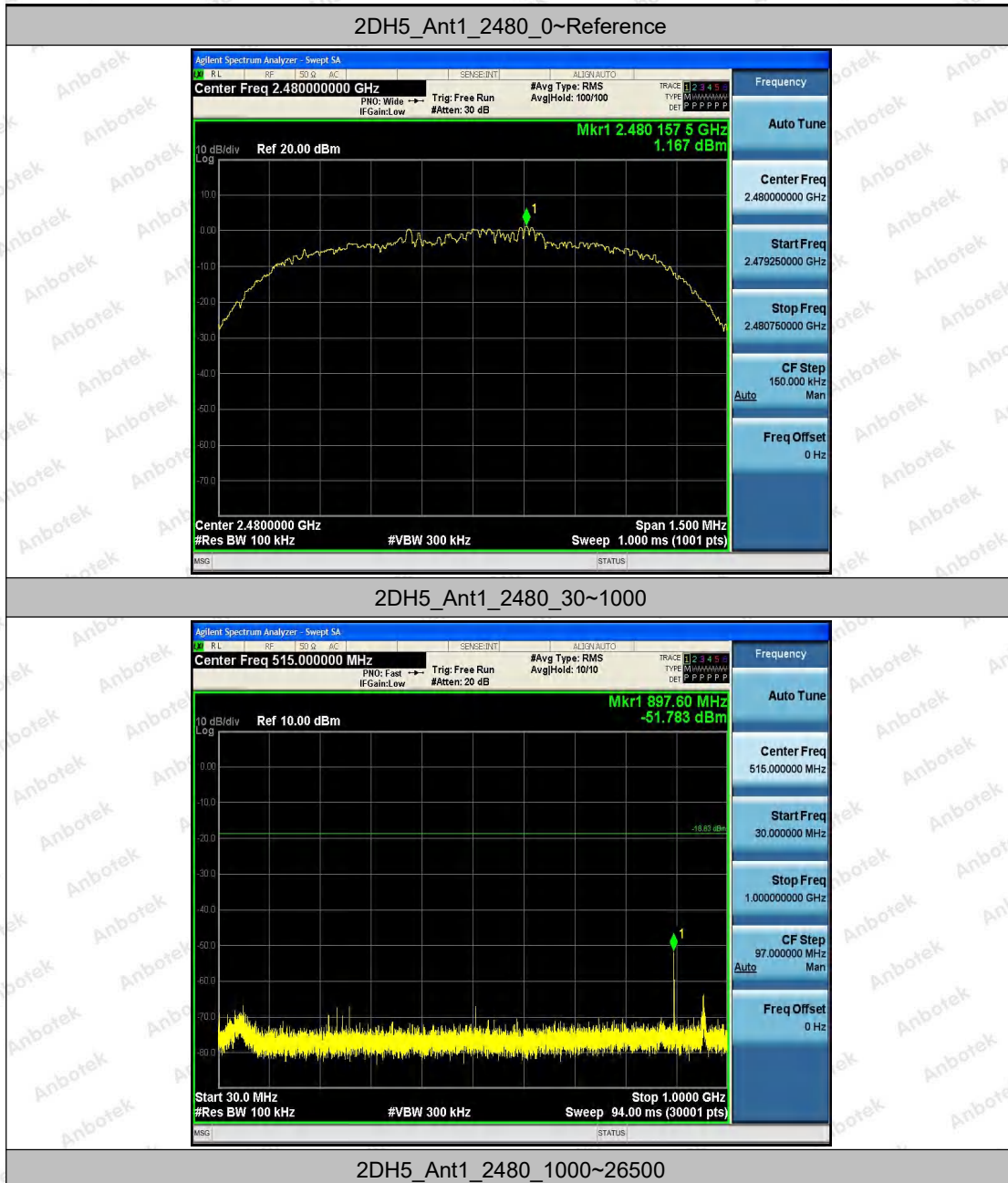
2DH5_Ant1_2441_1000~26500



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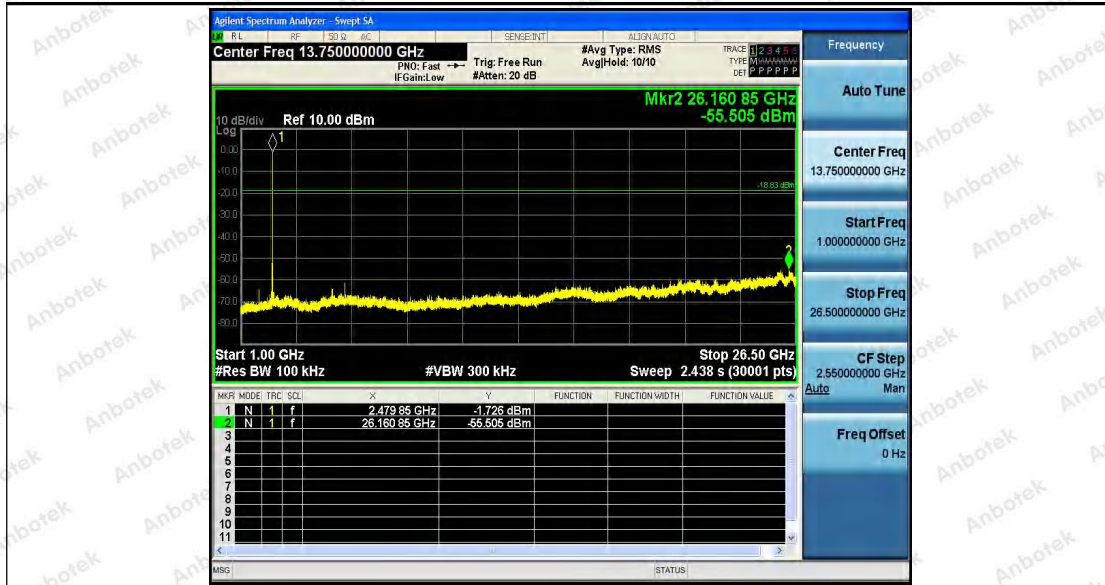


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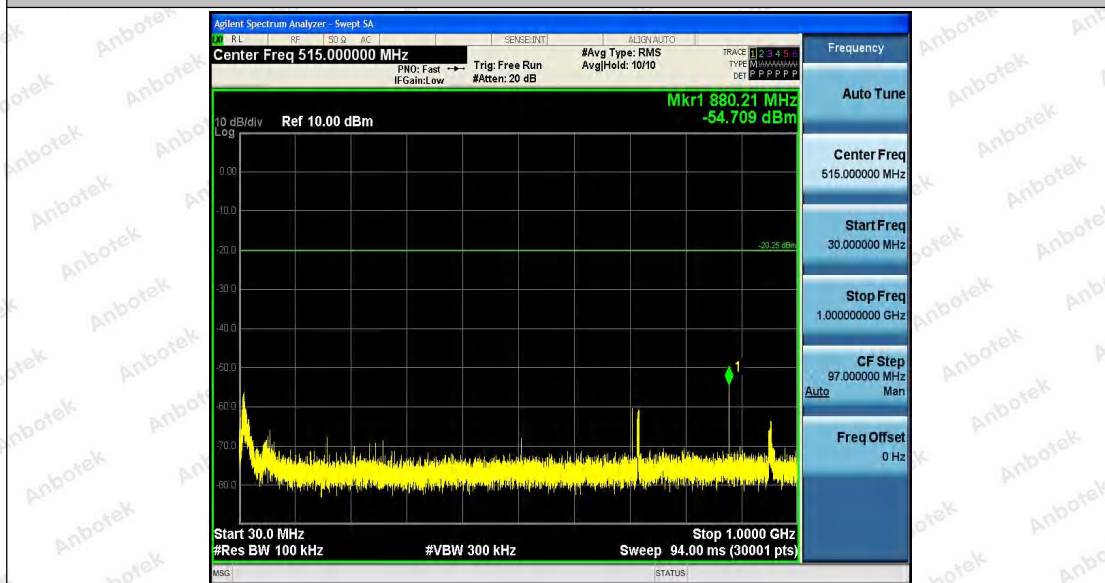
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

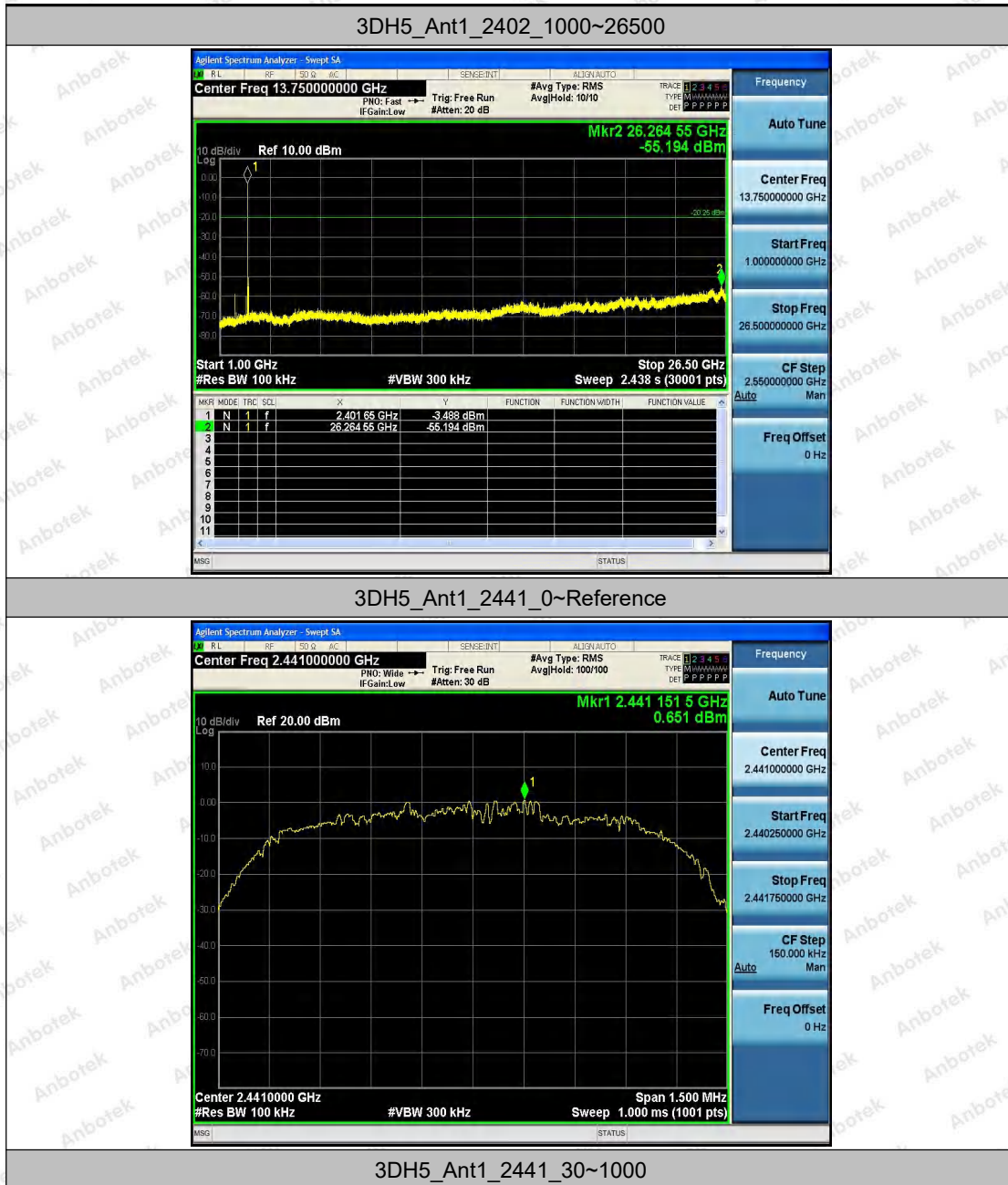


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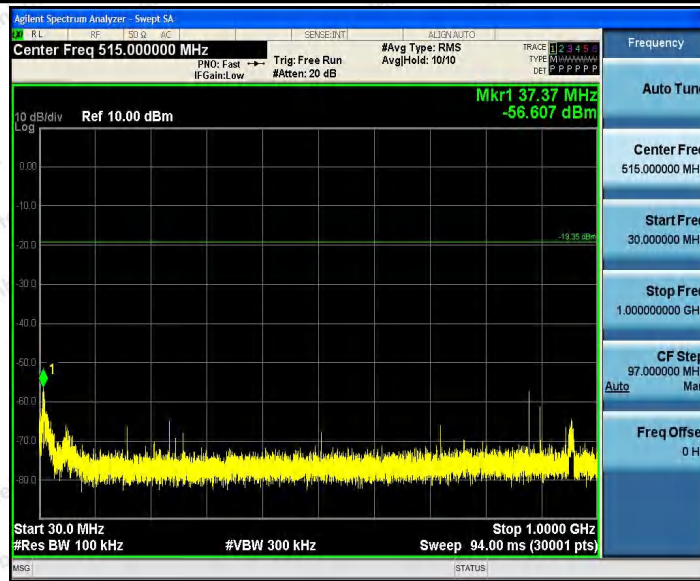


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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

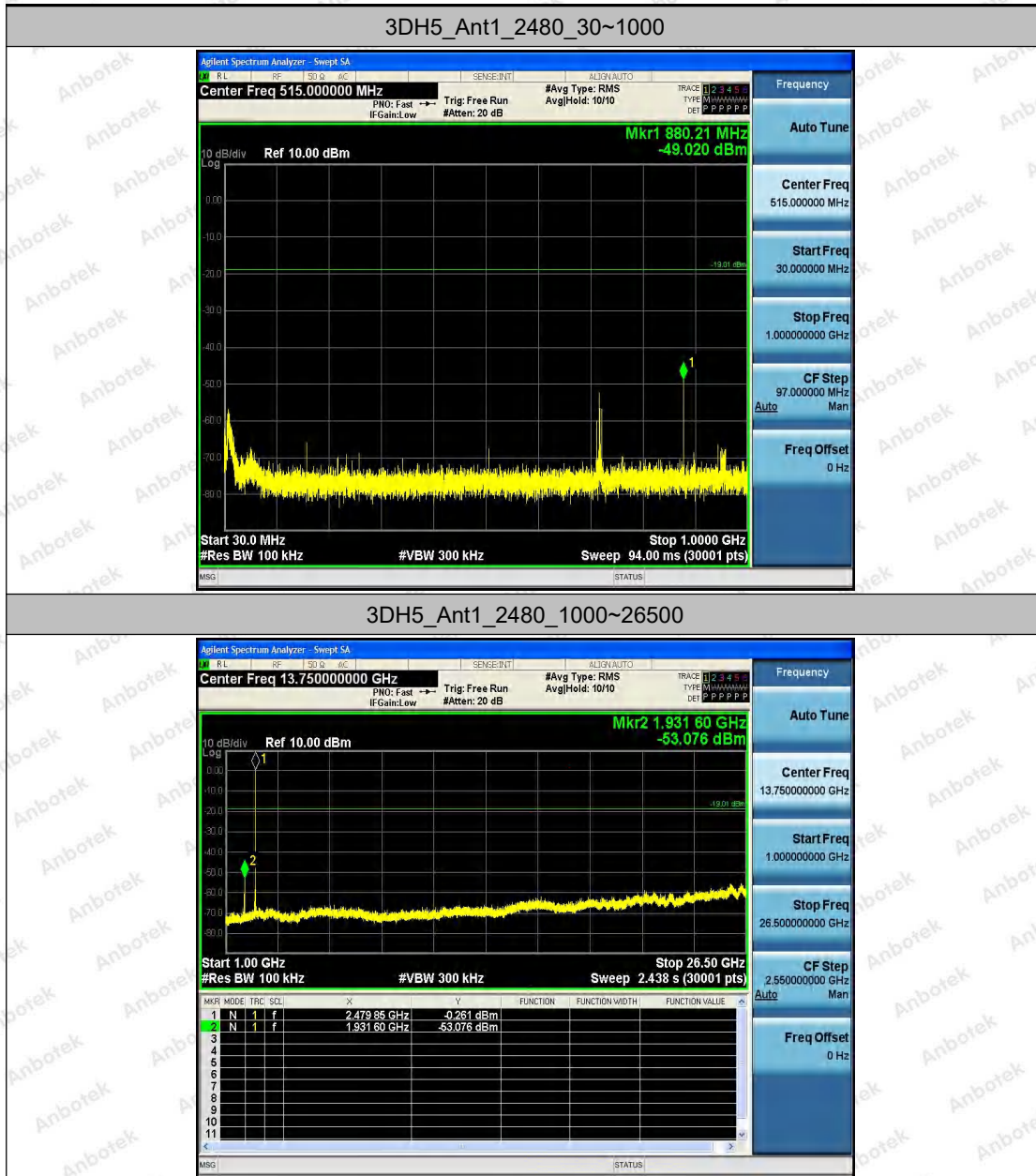


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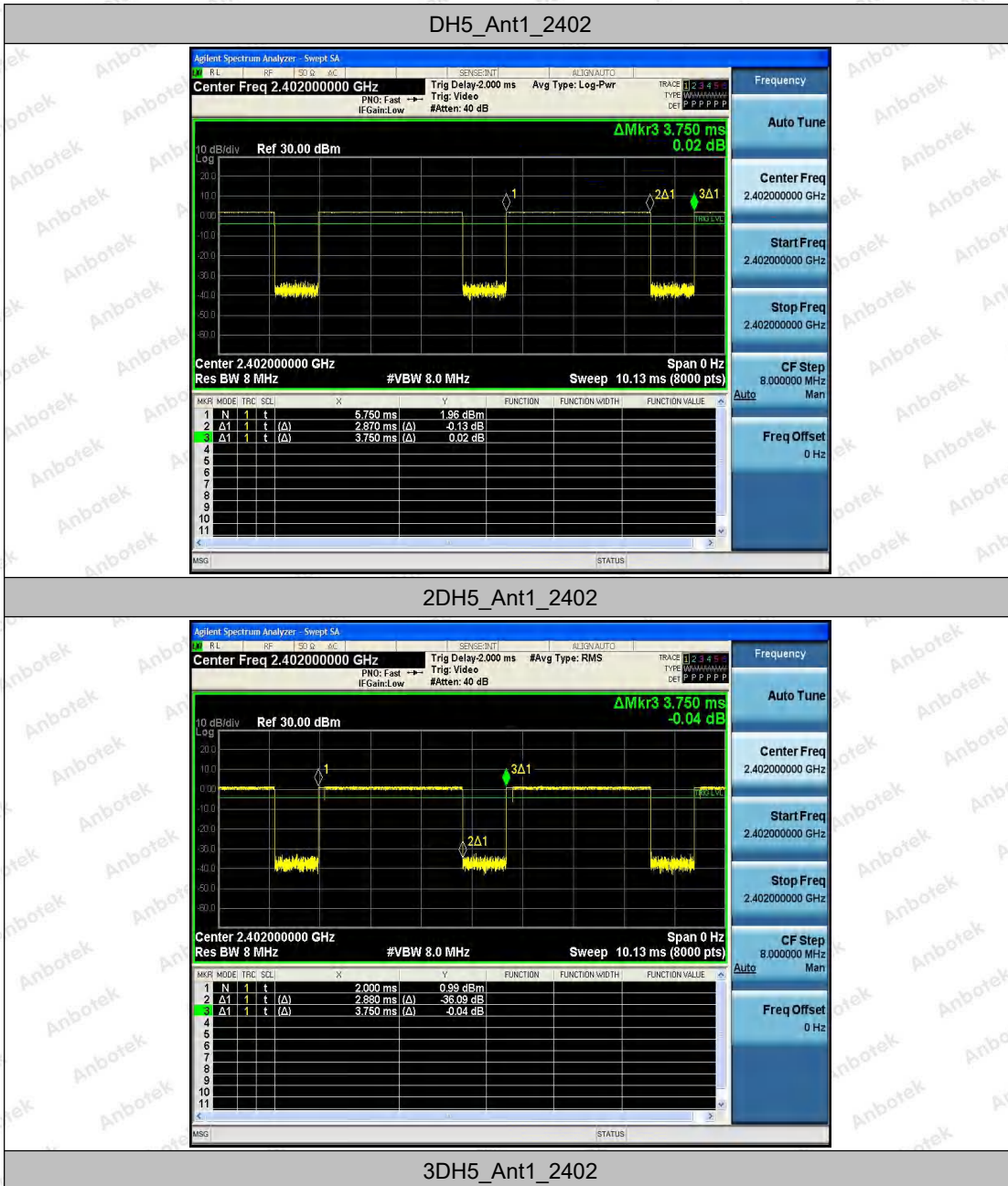
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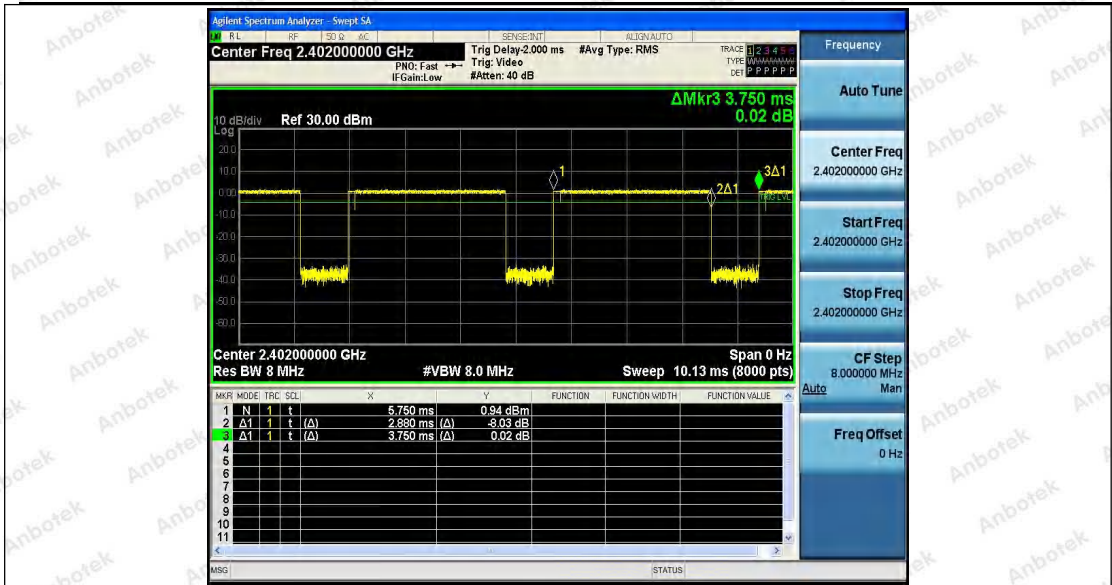
Appendix I: Duty Cycle

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	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---

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