

Appendix Test Data

Report No.:	18220WC10288801	Test Sample No.:	1-2-2
Start Test Date:	2021.12.31	Finish Test Date:	2022.1.10
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.3°C	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	2401.508	2402.453	---	PASS
		2441	0.945	2440.508	2441.453	---	PASS
		2480	0.948	2479.505	2480.453	---	PASS
2DH5	Ant1	2402	1.320	2401.310	2402.630	---	PASS
		2441	1.308	2440.316	2441.624	---	PASS
		2480	1.314	2479.310	2480.624	---	PASS
3DH5	Ant1	2402	1.263	2401.334	2402.597	---	PASS
		2441	1.272	2440.322	2441.594	---	PASS
		2480	1.269	2479.322	2480.591	---	PASS

Test Graphs

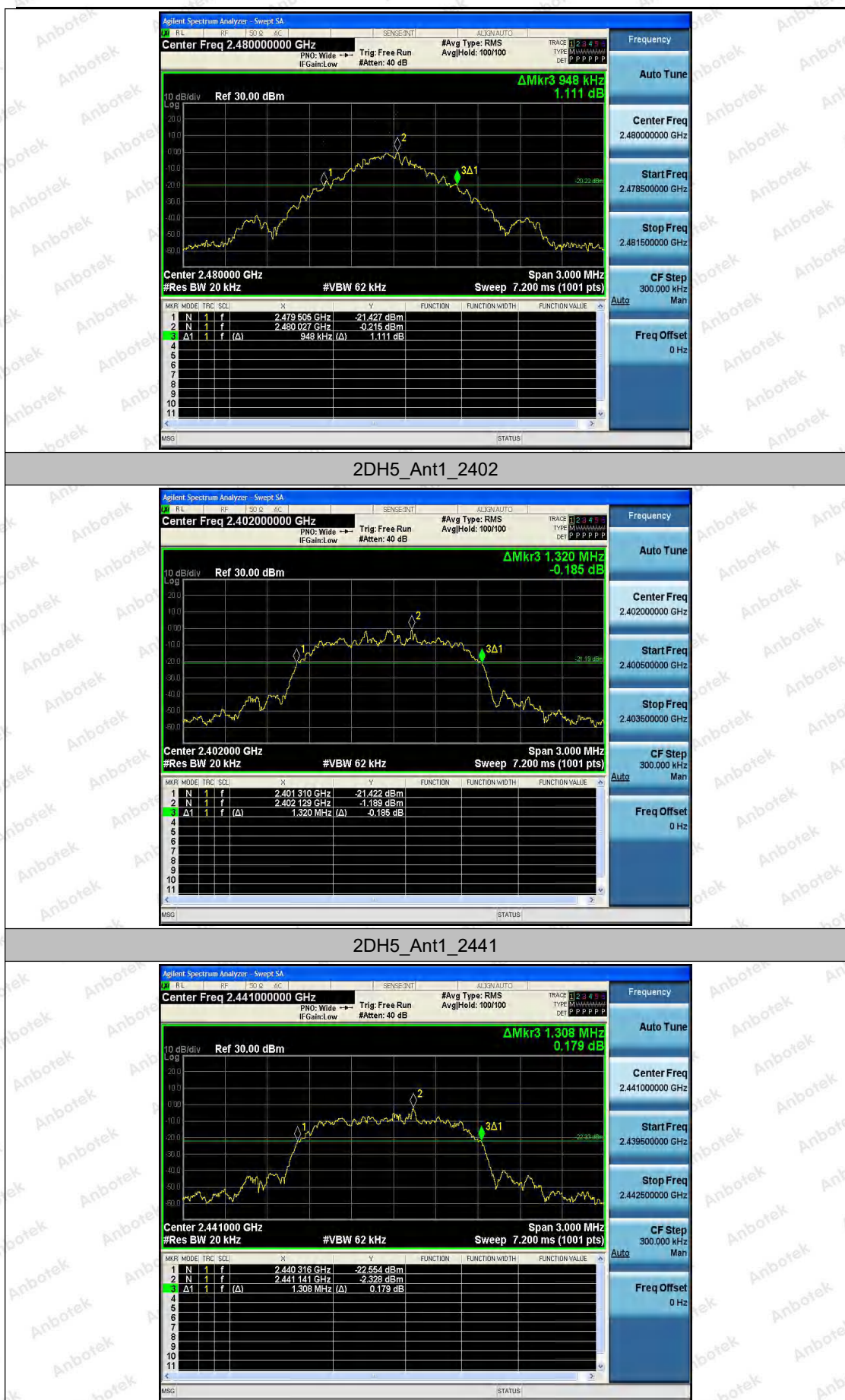
DH5_Ant1_2402



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	0.87456	2401.531	2402.405	---	PASS
		2441	0.87763	2440.528	2441.405	---	PASS
		2480	0.87049	2479.530	2480.401	---	PASS
2DH5	Ant1	2402	1.1762	2401.382	2402.558	---	PASS
		2441	1.1735	2440.381	2441.554	---	PASS
		2480	1.1747	2479.381	2480.555	---	PASS
3DH5	Ant1	2402	1.1881	2401.371	2402.559	---	PASS
		2441	1.1817	2440.372	2441.554	---	PASS
		2480	1.1790	2479.375	2480.554	---	PASS

Test Graphs

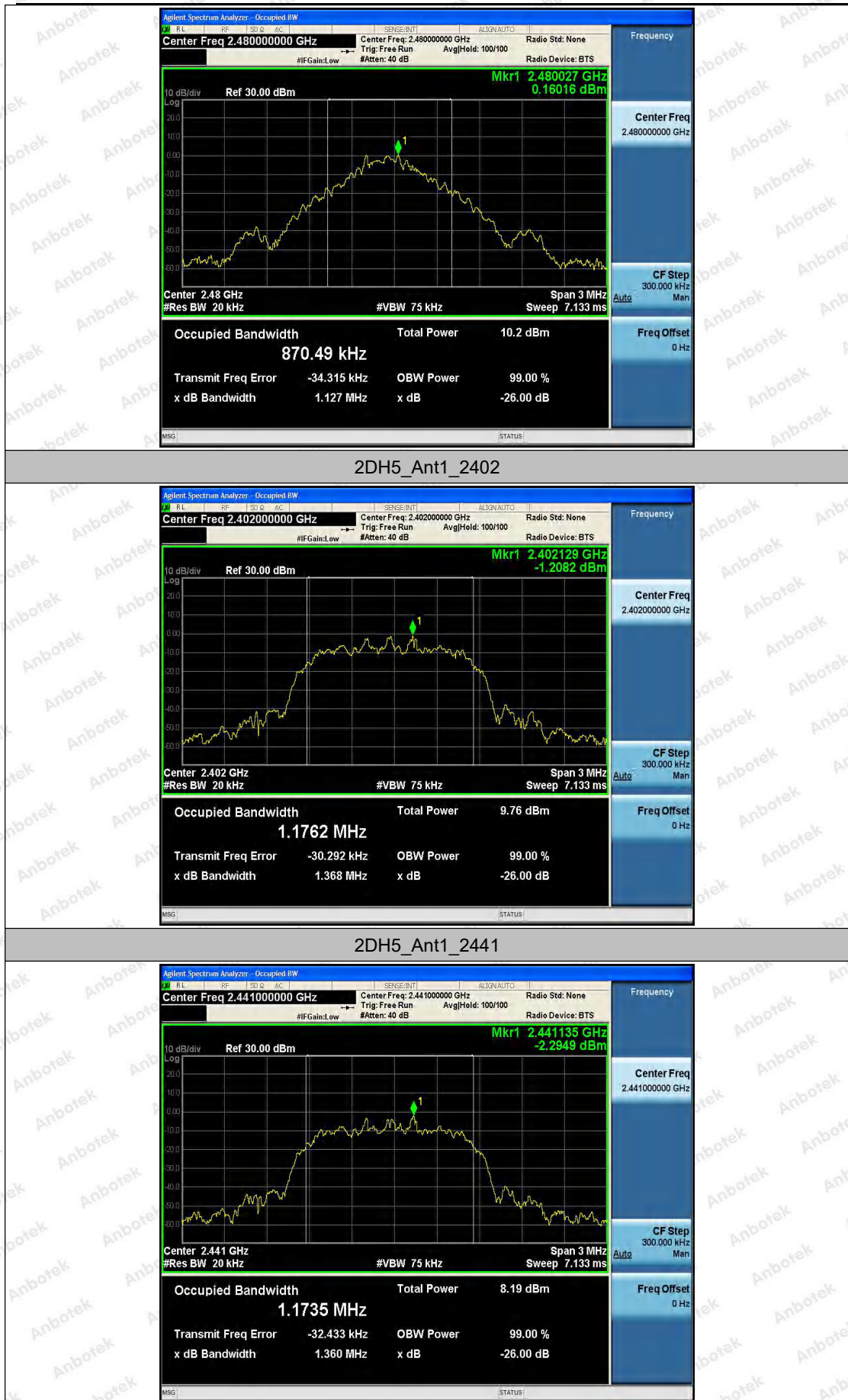


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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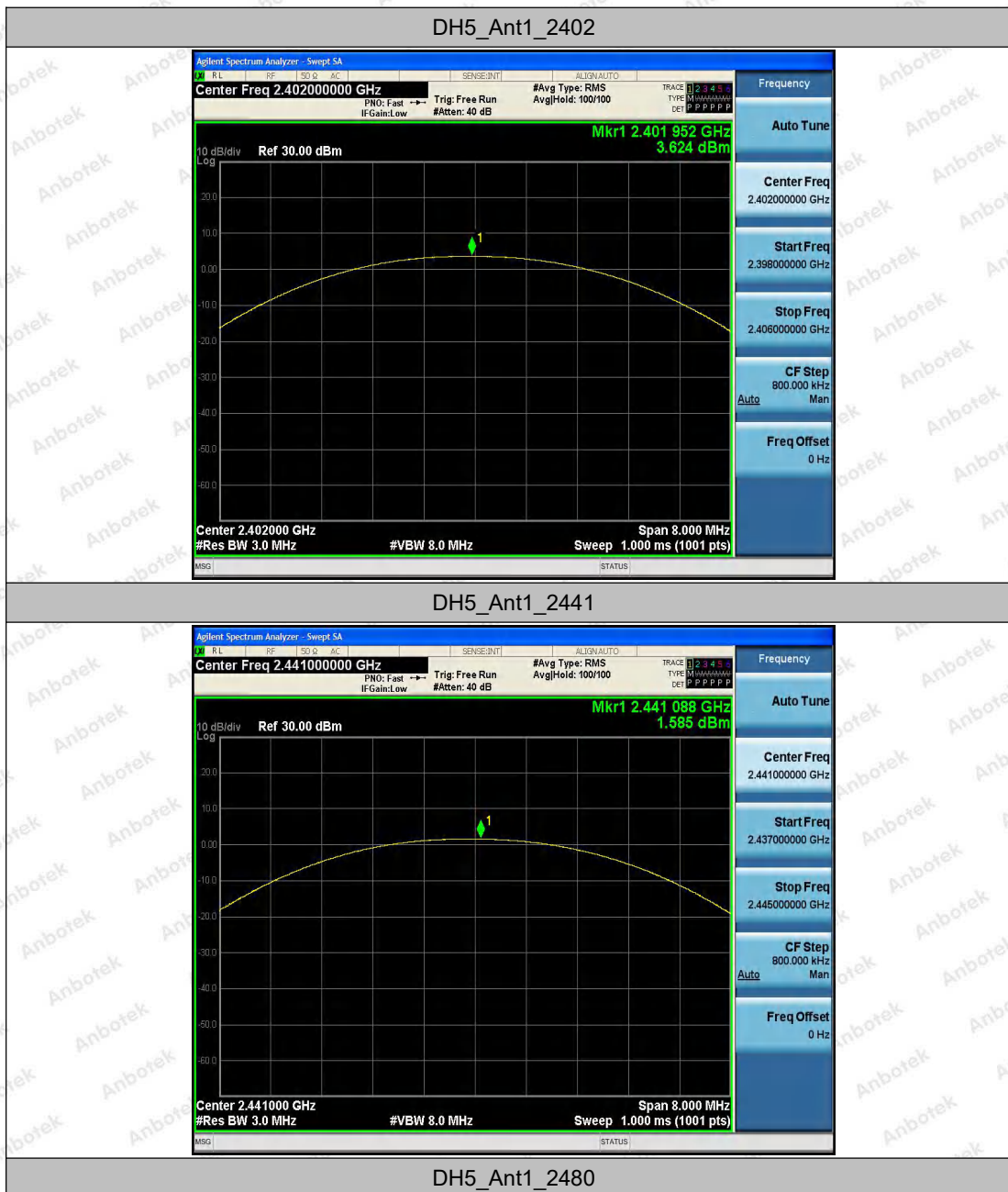
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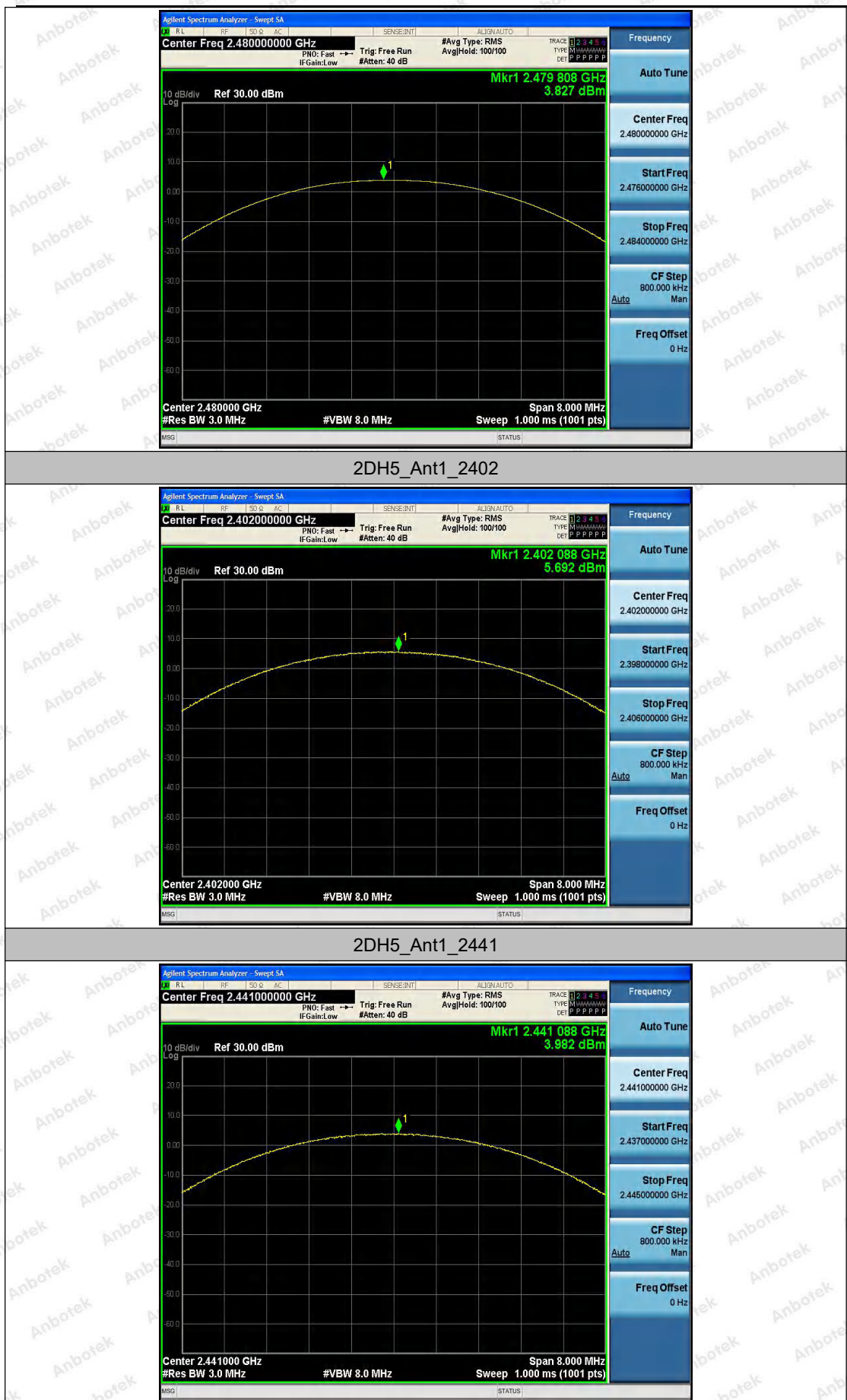
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.62	≤20.97	PASS
		2441	1.59	≤20.97	PASS
		2480	3.83	≤20.97	PASS
2DH5	Ant1	2402	5.69	≤20.97	PASS
		2441	3.98	≤20.97	PASS
		2480	5.94	≤20.97	PASS
3DH5	Ant1	2402	6.16	≤20.97	PASS
		2441	3.96	≤20.97	PASS
		2480	6.43	≤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	1.198	≥ 0.948	PASS
2DH5	Ant1	Hop	1.226	≥ 0.880	PASS
3DH5	Ant1	Hop	0.852	≥ 0.848	PASS

Test Graphs



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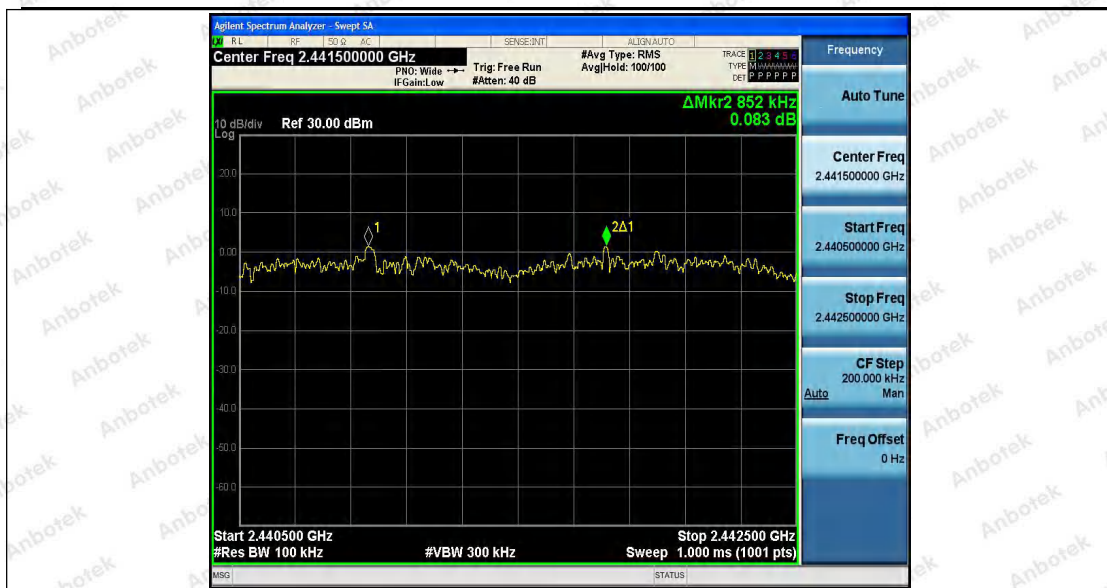
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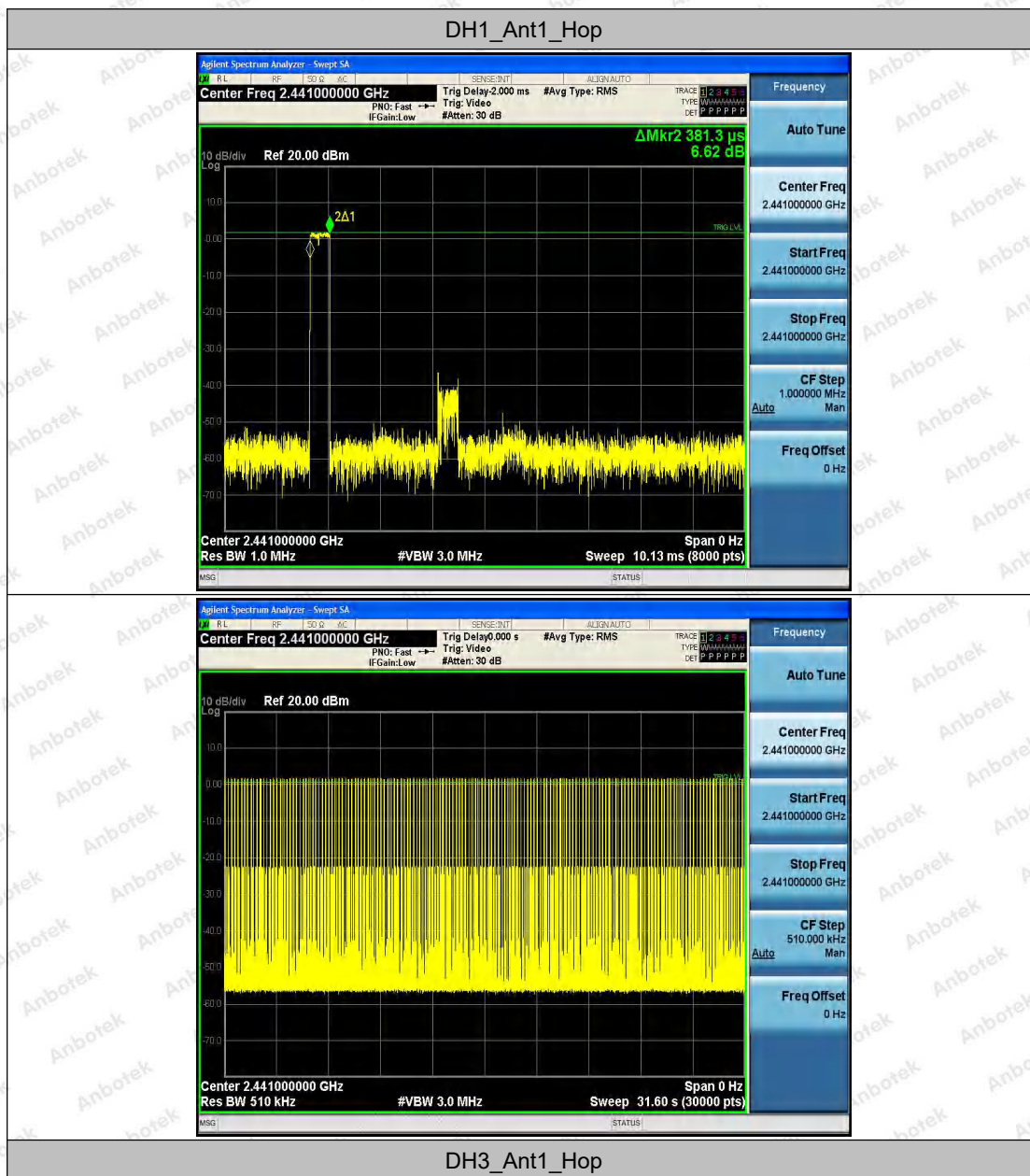
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.64	163	0.267	≤0.4	PASS
DH5	Ant1	Hop	2.89	113	0.326	≤0.4	PASS
2DH1	Ant1	Hop	0.39	317	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.64	162	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.89	117	0.338	≤0.4	PASS
3DH1	Ant1	Hop	0.39	318	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.64	151	0.248	≤0.4	PASS
3DH5	Ant1	Hop	2.89	102	0.295	≤0.4	PASS

Test Graphs



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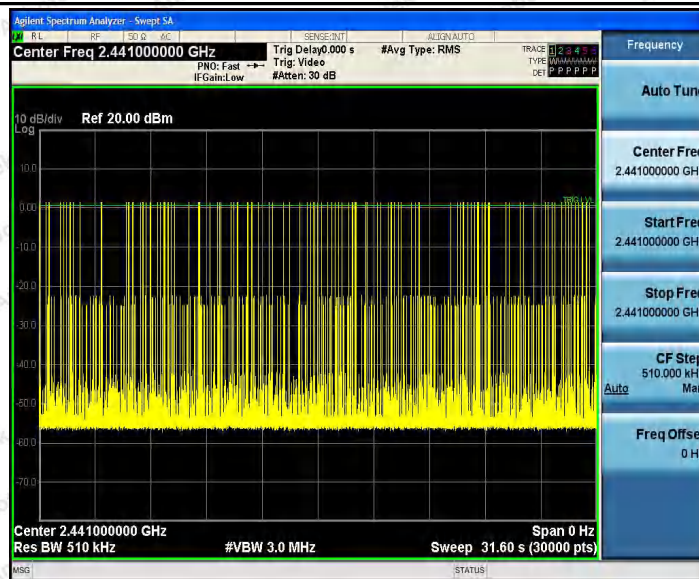
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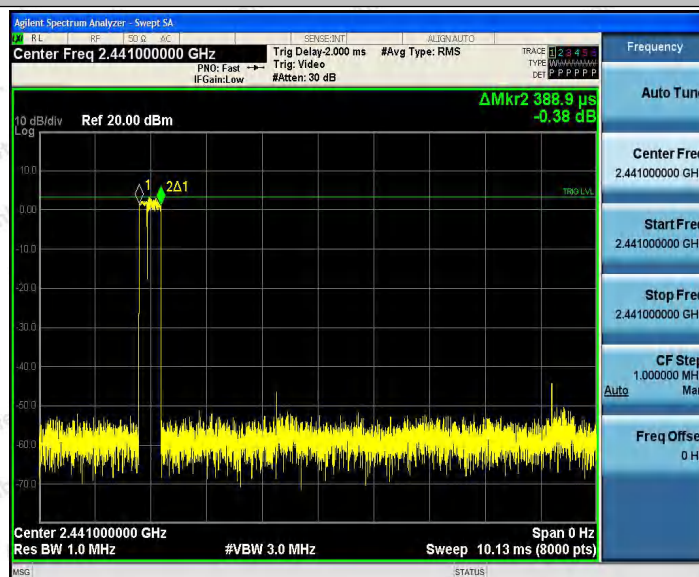
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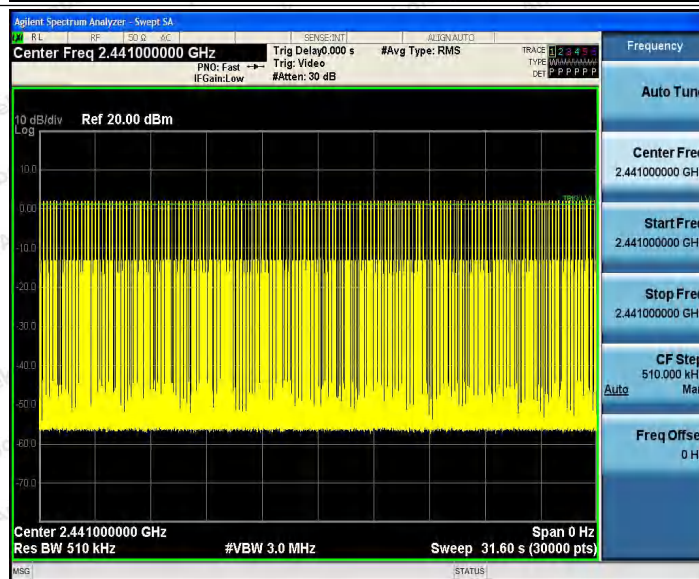
DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

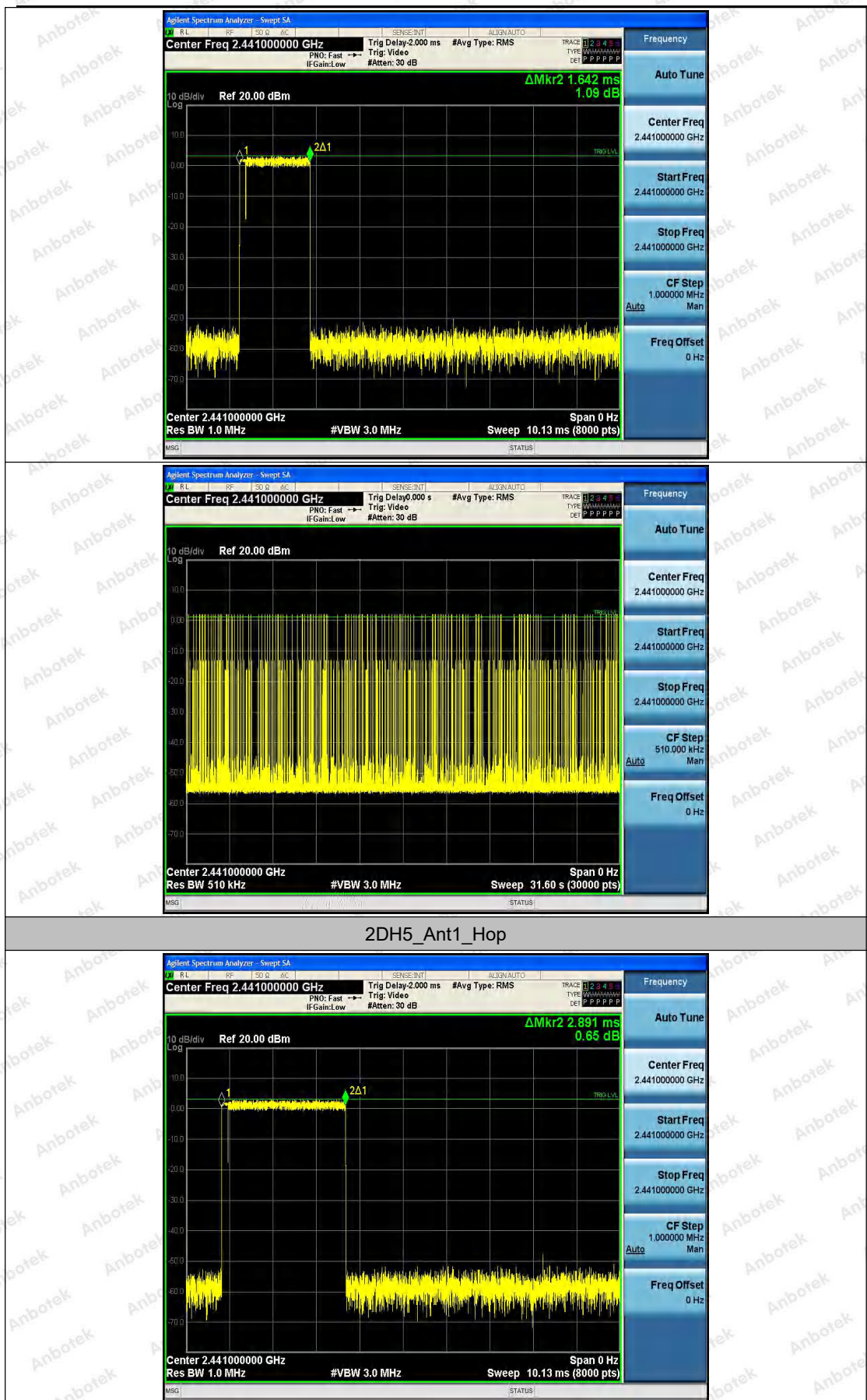


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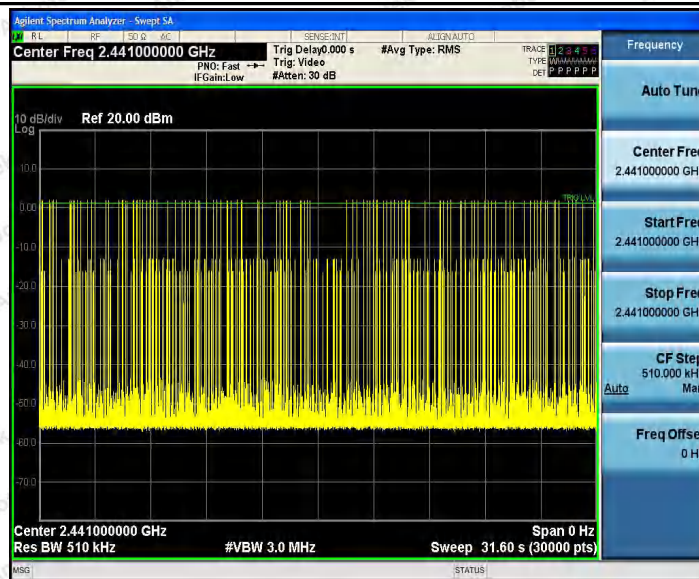


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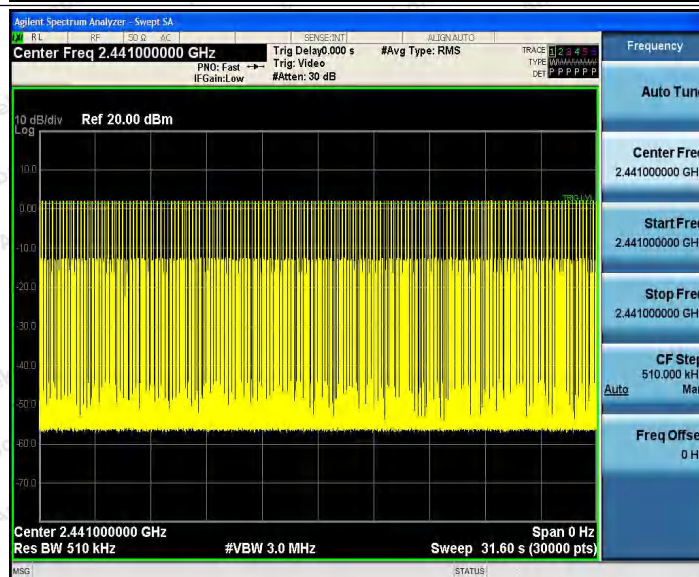
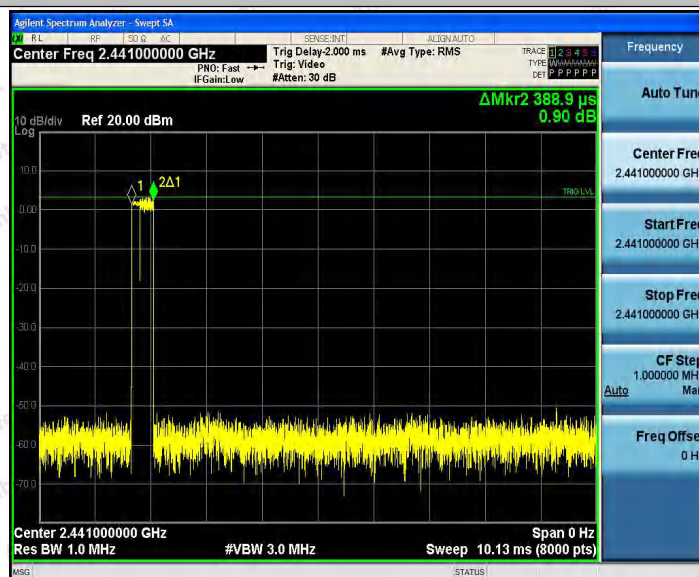
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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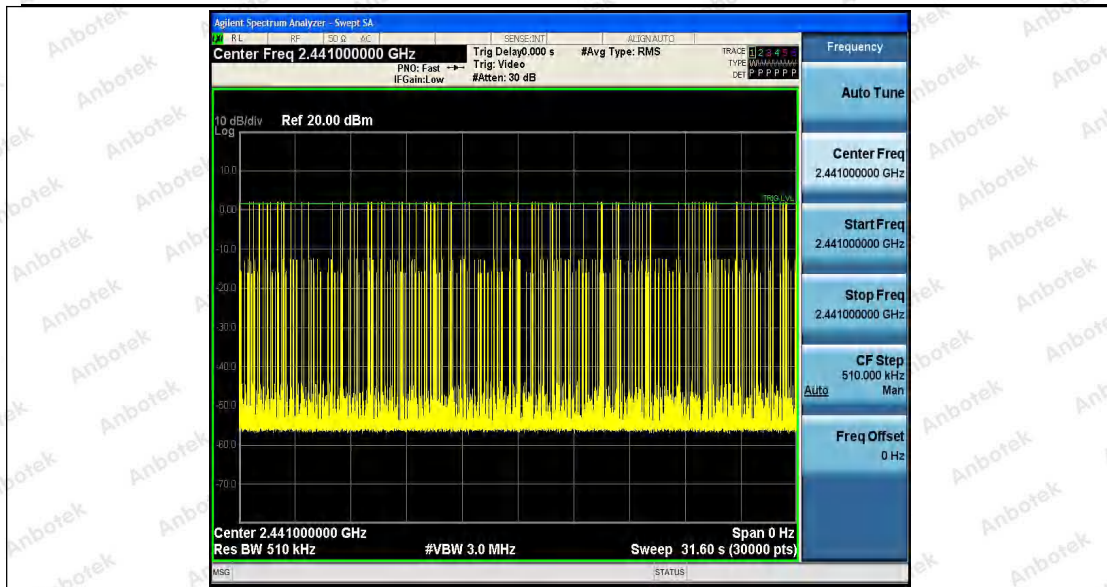


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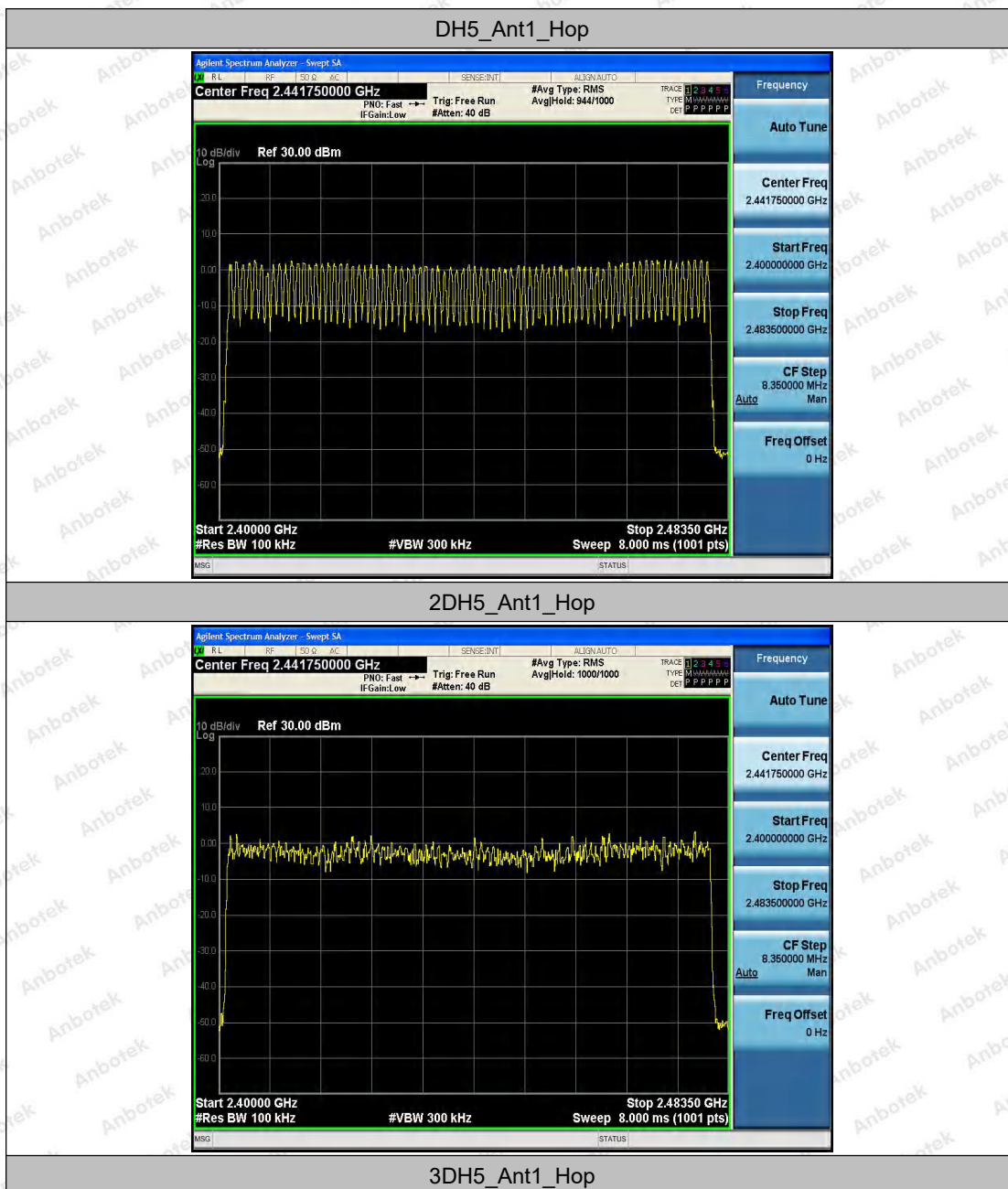
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Appendix F: Number of hopping channels

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

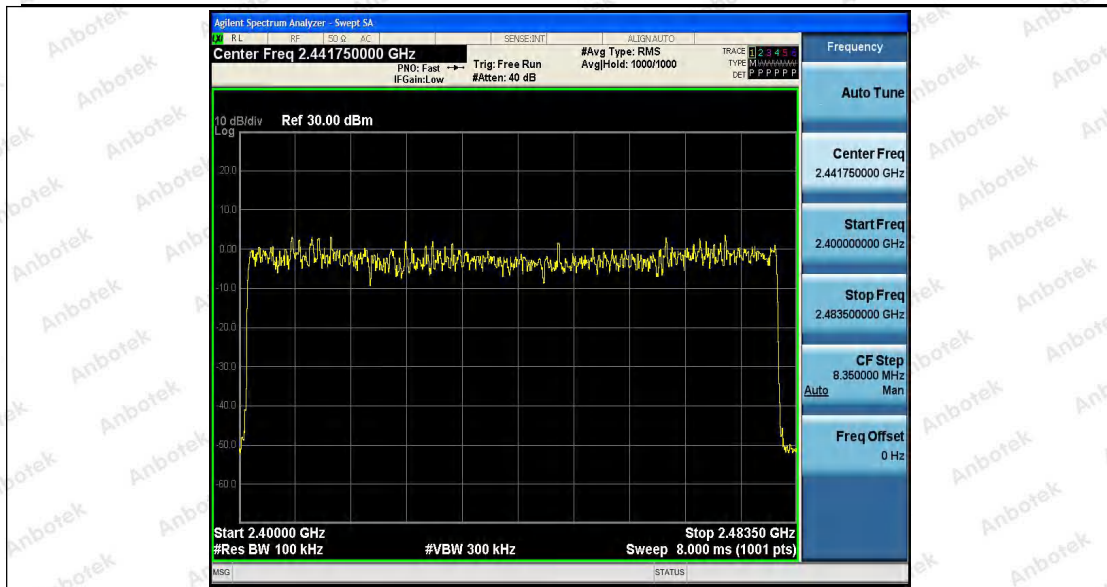


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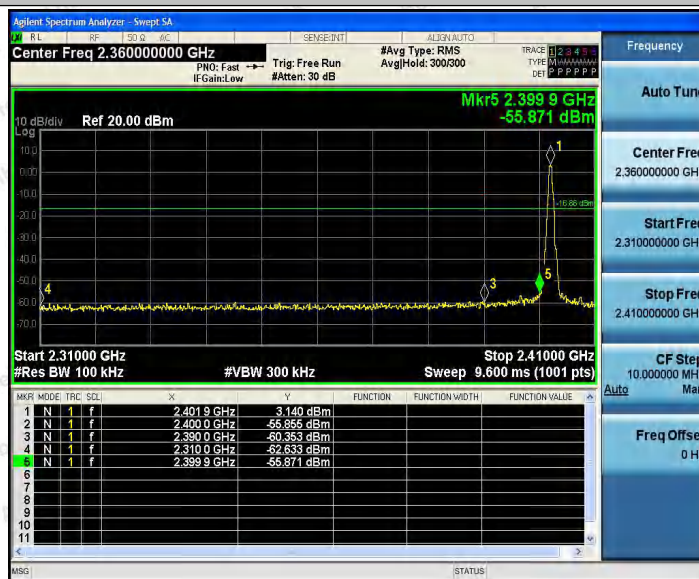
Appendix G: Band edge measurements

Test Result

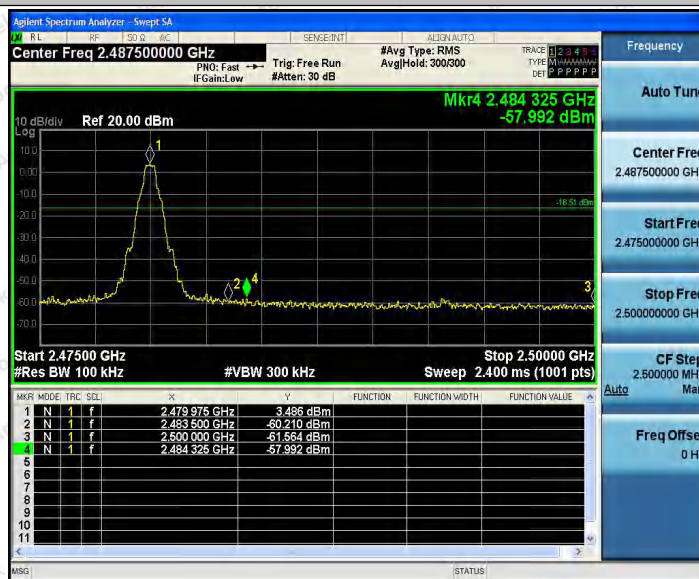
Test Mode	Antenna	Ch Name	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.14	-55.87	≤-16.86	PASS
		High	2480	3.49	-57.99	≤-16.51	PASS
		Low	Hop	3.11	-59.42	≤-16.89	PASS
		High	Hop	2.33	-61.79	≤-17.67	PASS
2DH5	Ant1	Low	2402	3.39	-54.62	≤-16.61	PASS
		High	2480	4.27	-57.48	≤-15.74	PASS
		Low	Hop	0.81	-59.58	≤-19.19	PASS
		High	Hop	0.98	-62.29	≤-19.02	PASS
3DH5	Ant1	Low	2402	2.87	-55.44	≤-17.13	PASS
		High	2480	4.14	-57.94	≤-15.87	PASS
		Low	Hop	3.03	-58.91	≤-16.97	PASS
		High	Hop	0.75	-60.36	≤-19.25	PASS

Test Graphs

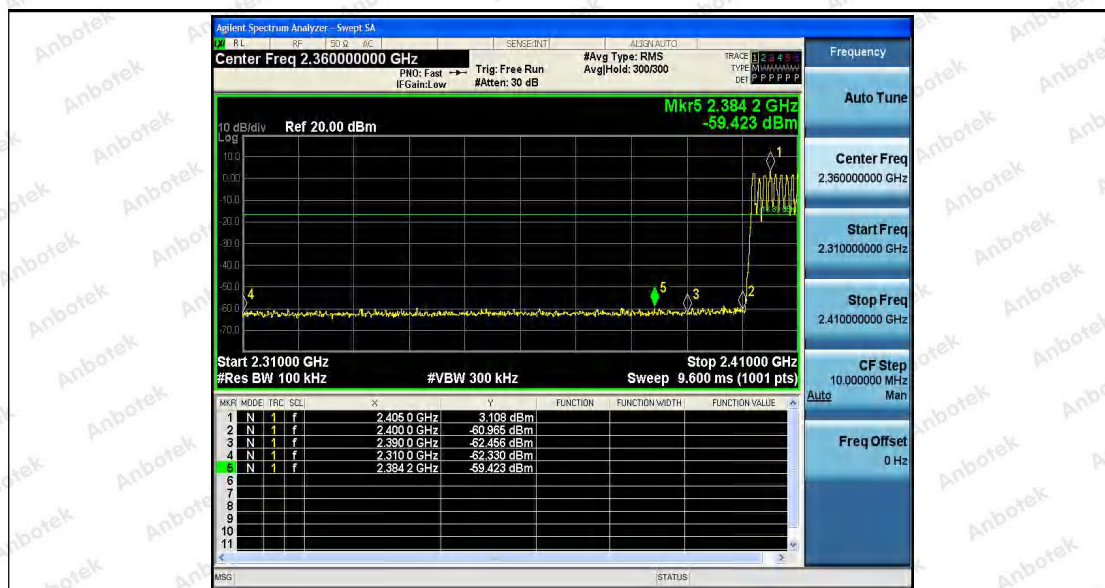
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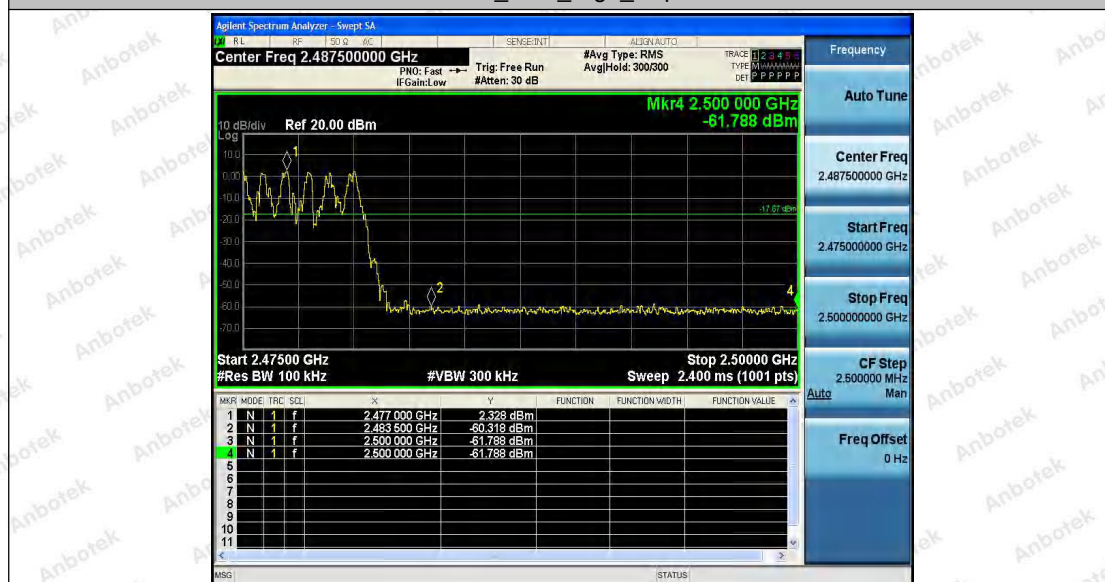
DH5_Ant1_High_2480



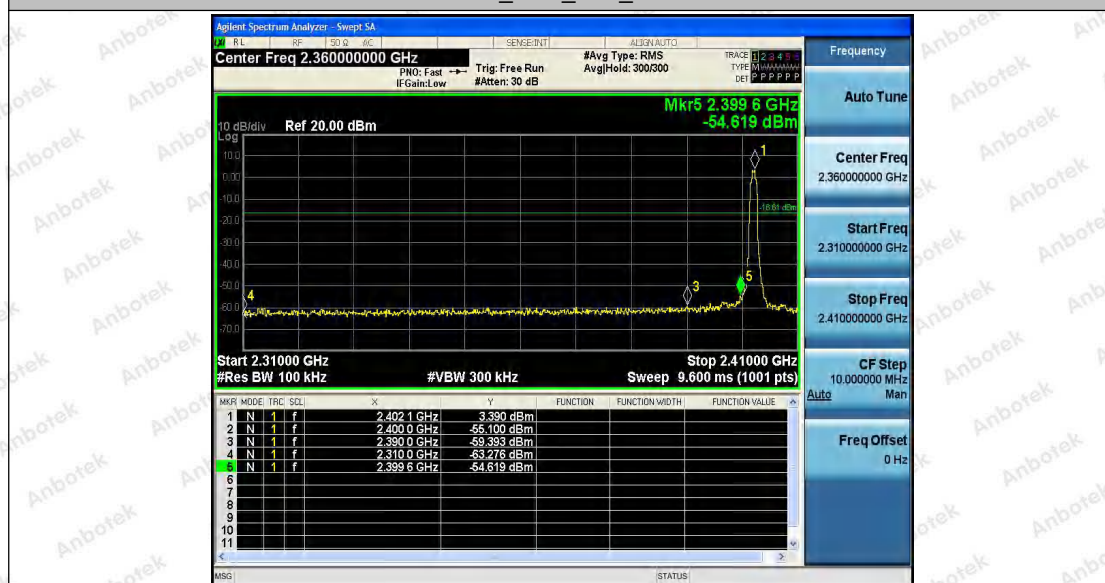
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



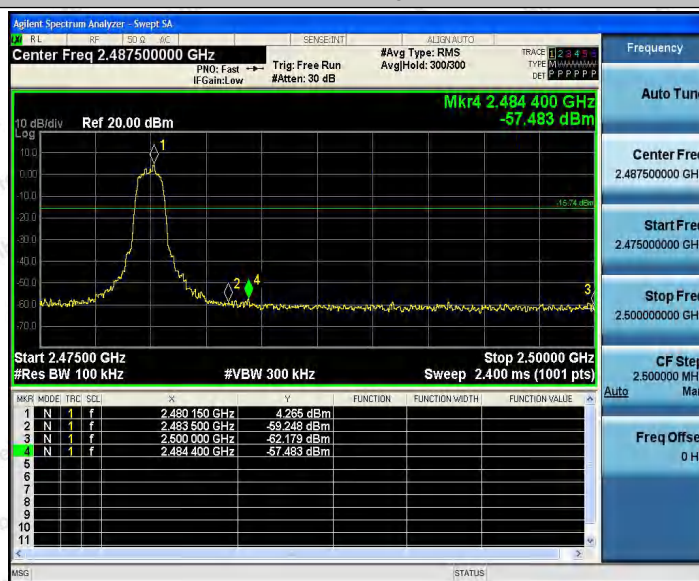
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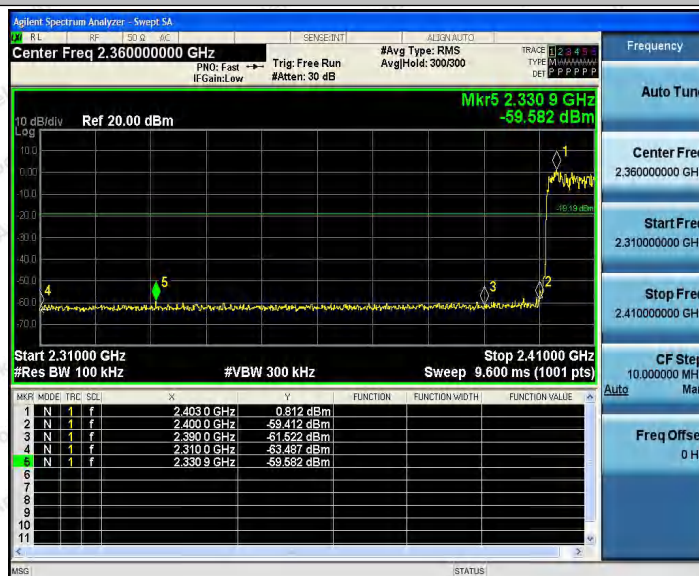
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



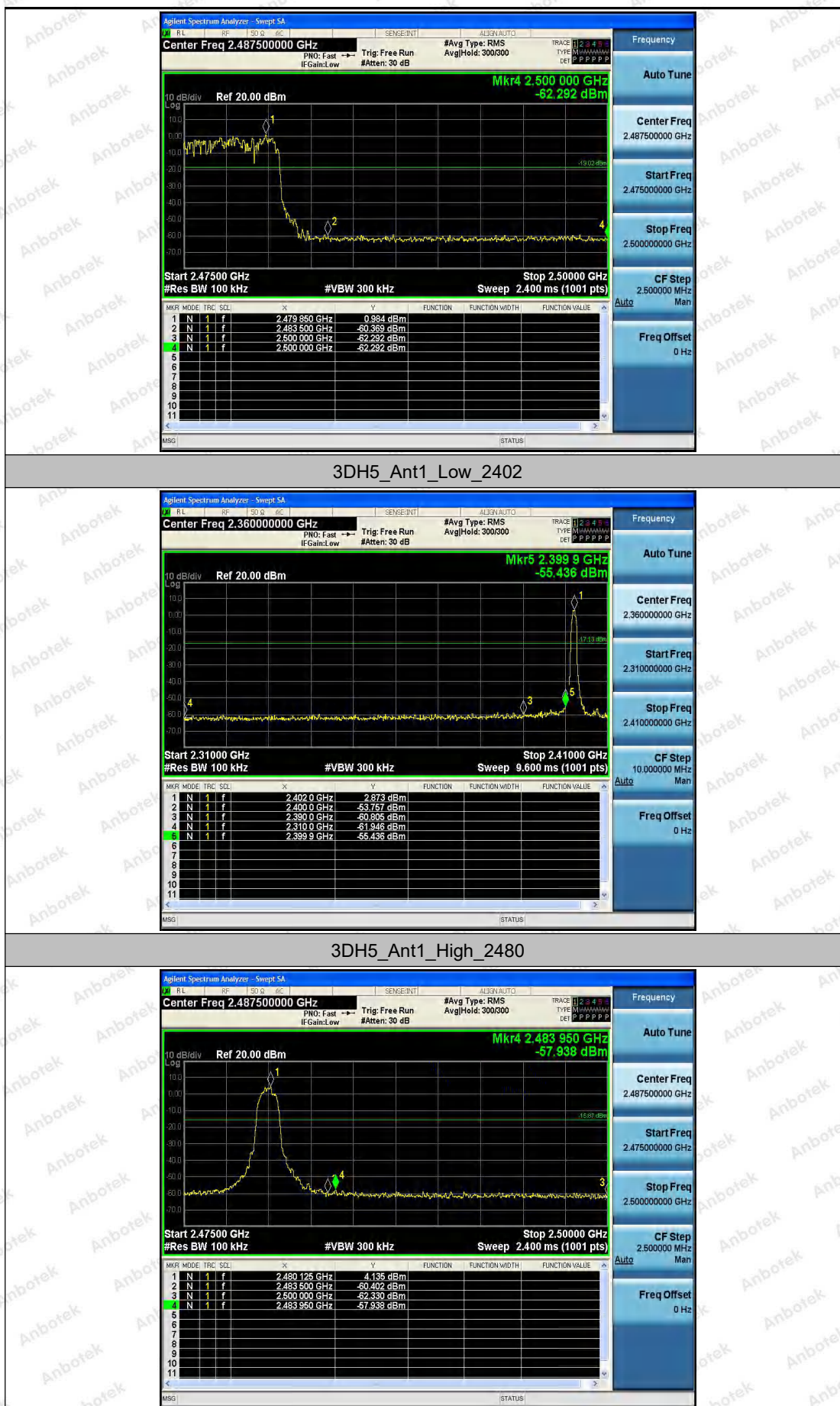
2DH5_Ant1_High_Hop

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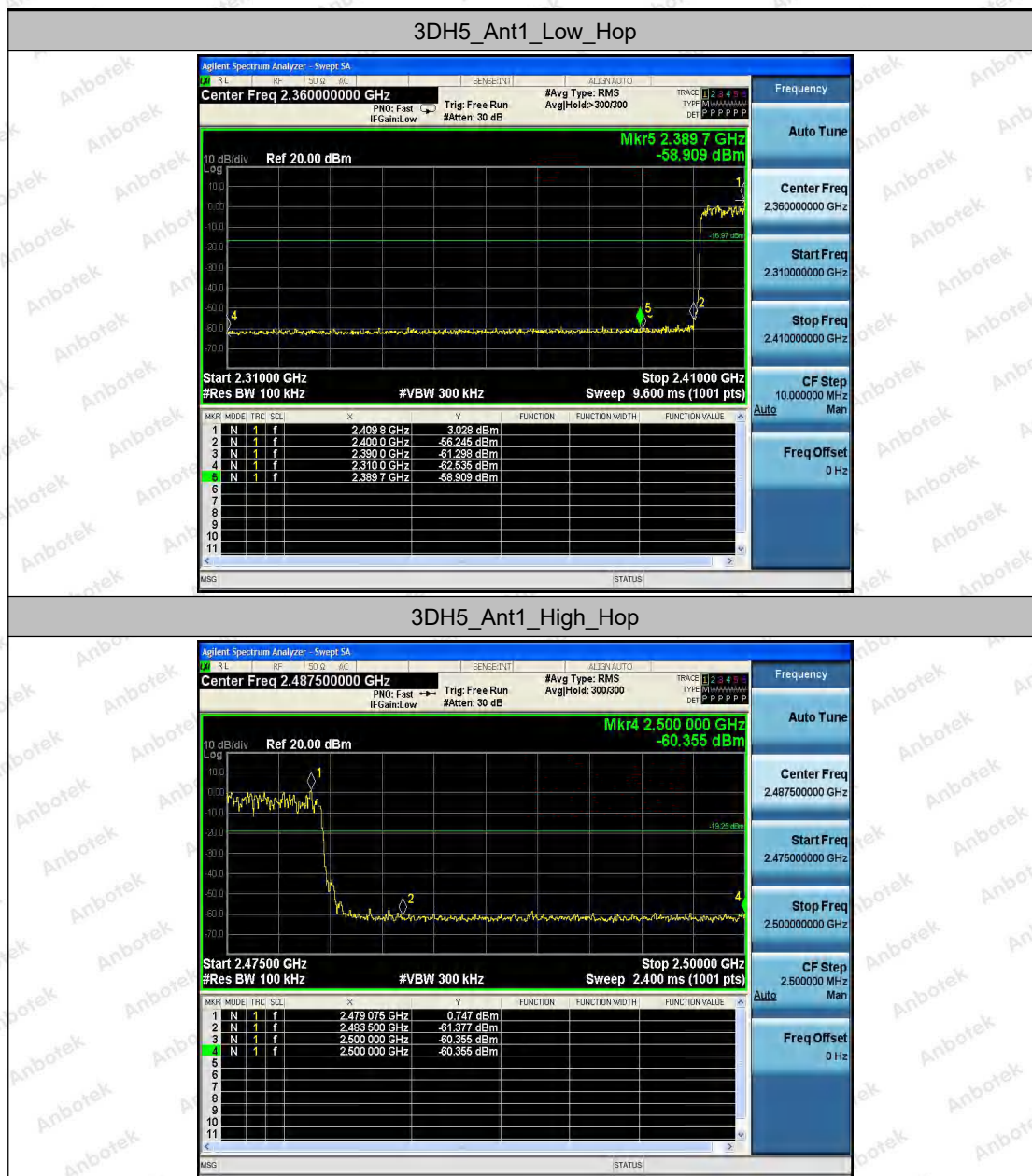


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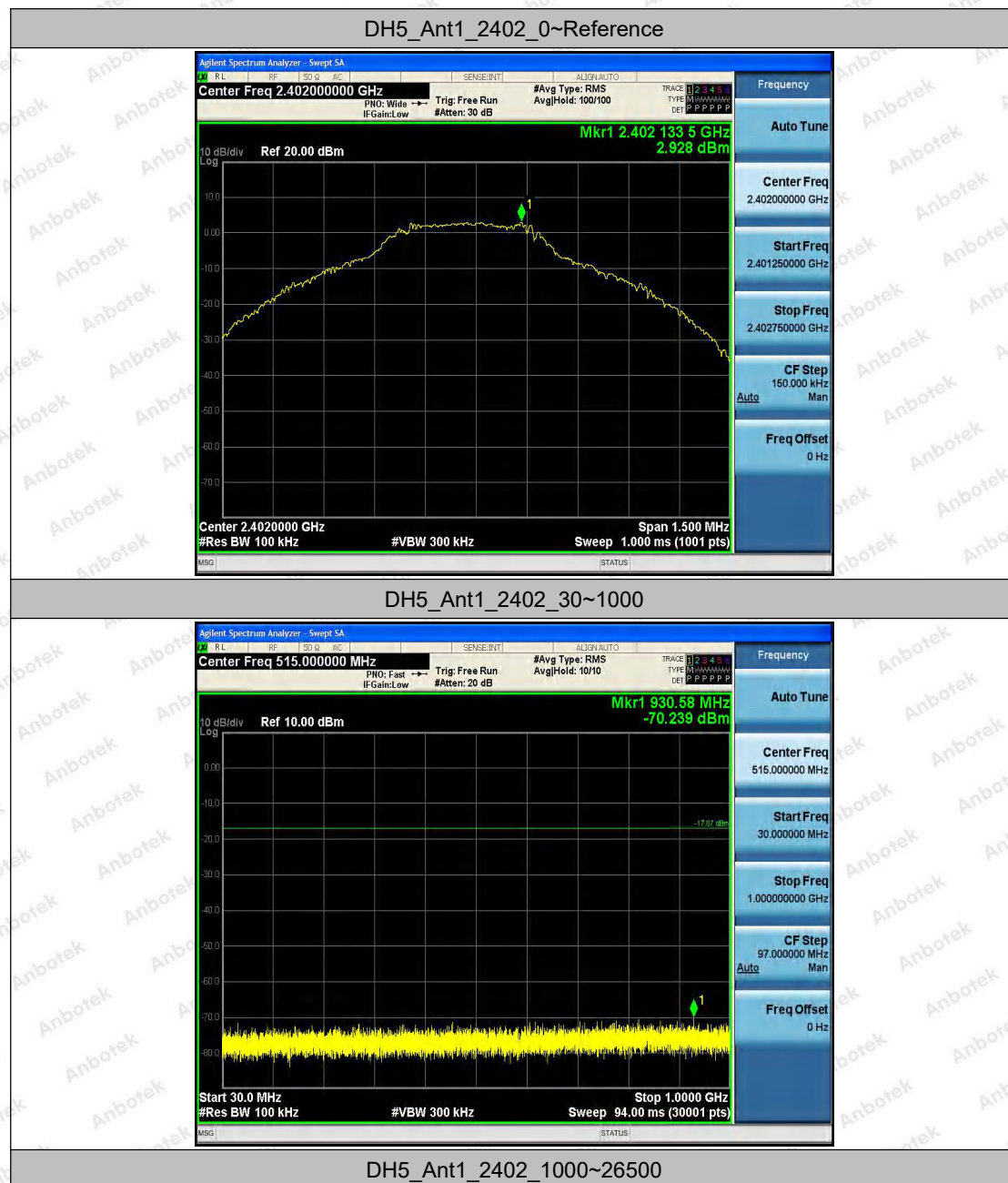
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.93	2.93	---	PASS
			30~1000	2.93	-70.24	≤-17.07	PASS
			1000~26500	2.93	-54.92	≤-17.07	PASS
		2441	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-70.73	≤-19.11	PASS
			1000~26500	0.89	-55.82	≤-19.11	PASS
		2480	Reference	3.43	3.43	---	PASS
			30~1000	3.43	-70.21	≤-16.57	PASS
			1000~26500	3.43	-55.54	≤-16.57	PASS
2DH5	Ant1	2402	Reference	3.06	3.06	---	PASS
			30~1000	3.06	-70.49	≤-16.94	PASS
			1000~26500	3.06	-55.74	≤-16.94	PASS
		2441	Reference	1.61	1.61	---	PASS
			30~1000	1.61	-70.67	≤-18.39	PASS
			1000~26500	1.61	-55.6	≤-18.39	PASS
		2480	Reference	4.04	4.04	---	PASS
			30~1000	4.04	-69.64	≤-15.96	PASS
			1000~26500	4.04	-55.03	≤-15.96	PASS
3DH5	Ant1	2402	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-70.08	≤-17.04	PASS
			1000~26500	2.96	-55.51	≤-17.04	PASS
		2441	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-70.56	≤-18.71	PASS
			1000~26500	1.29	-55.54	≤-18.71	PASS
		2480	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-70.4	≤-15.81	PASS
			1000~26500	4.19	-56.04	≤-15.81	PASS

Test Graphs

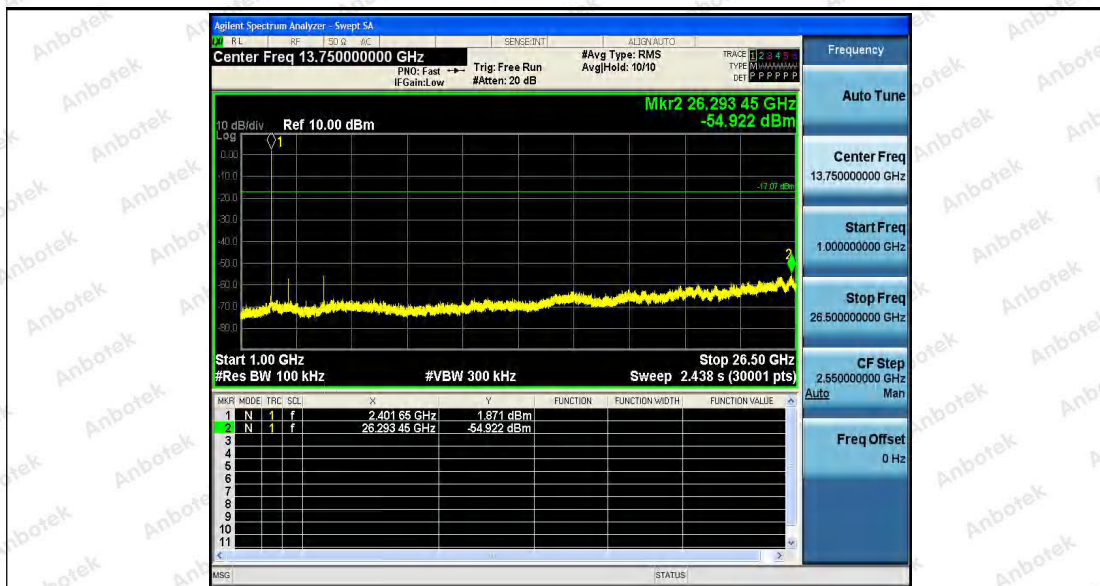


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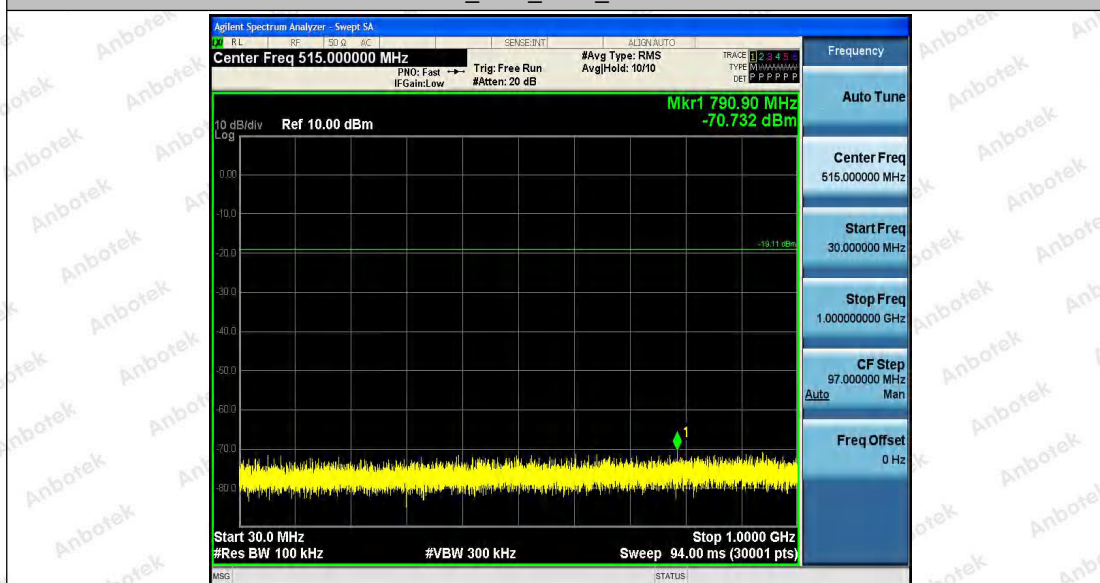
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



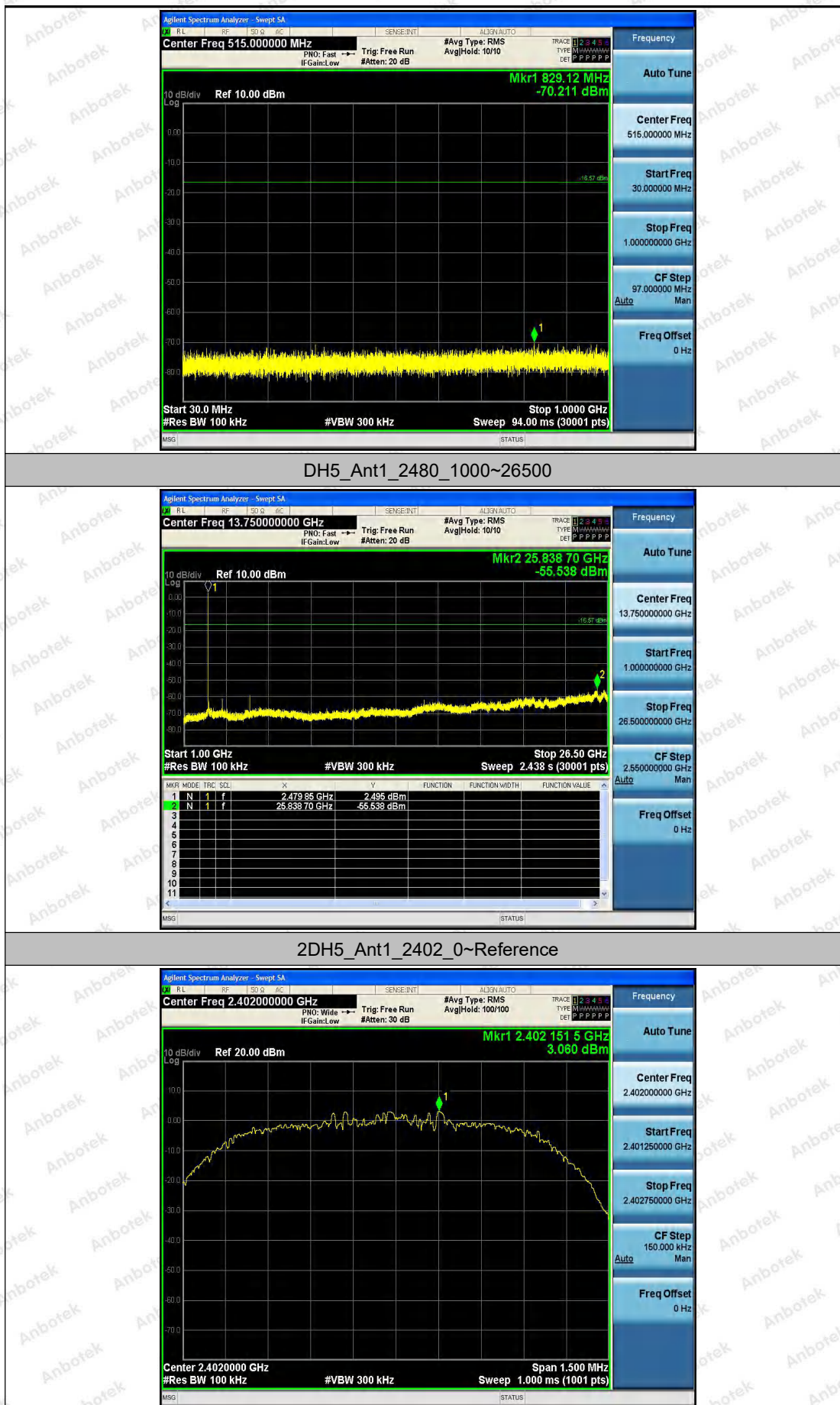
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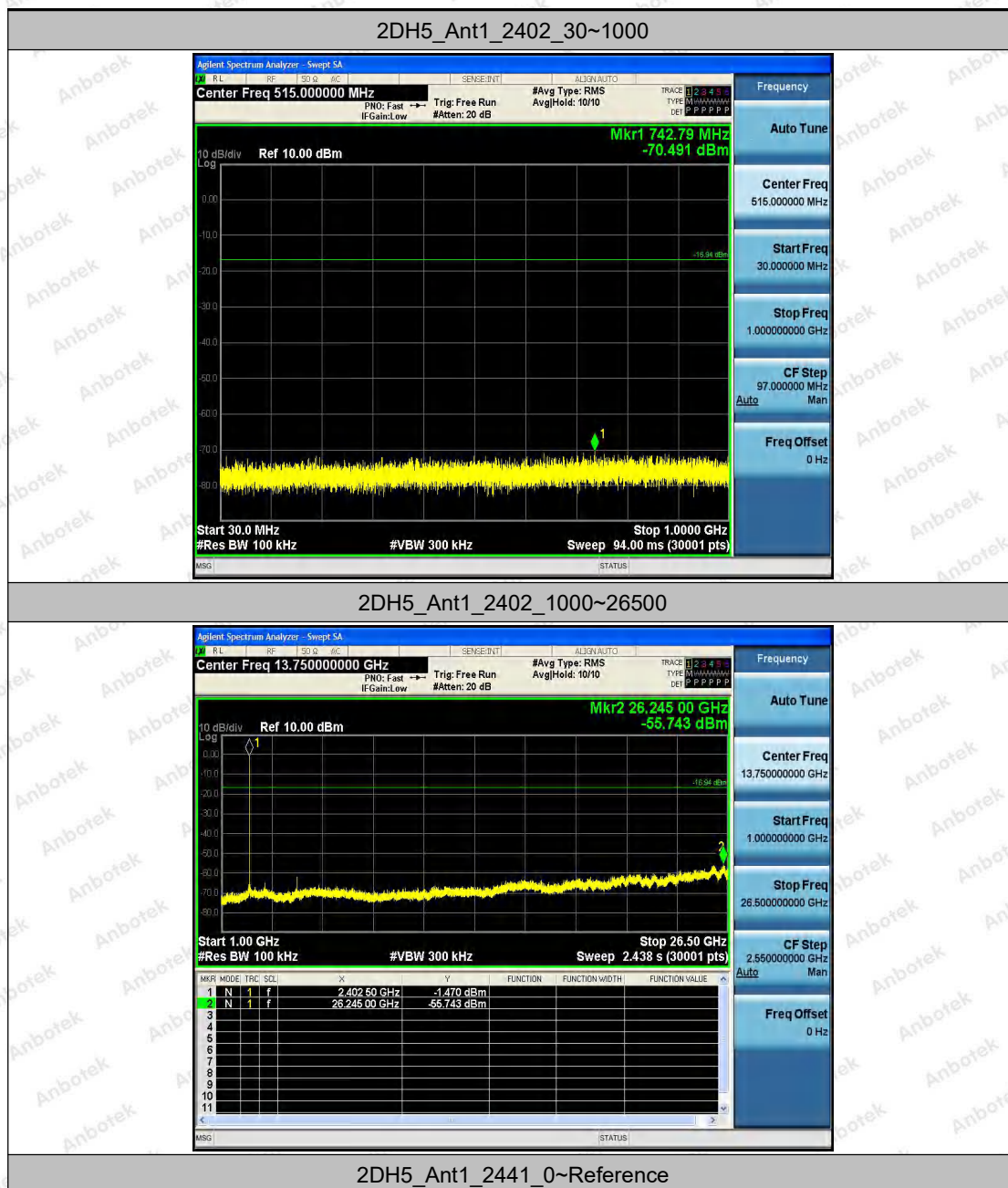


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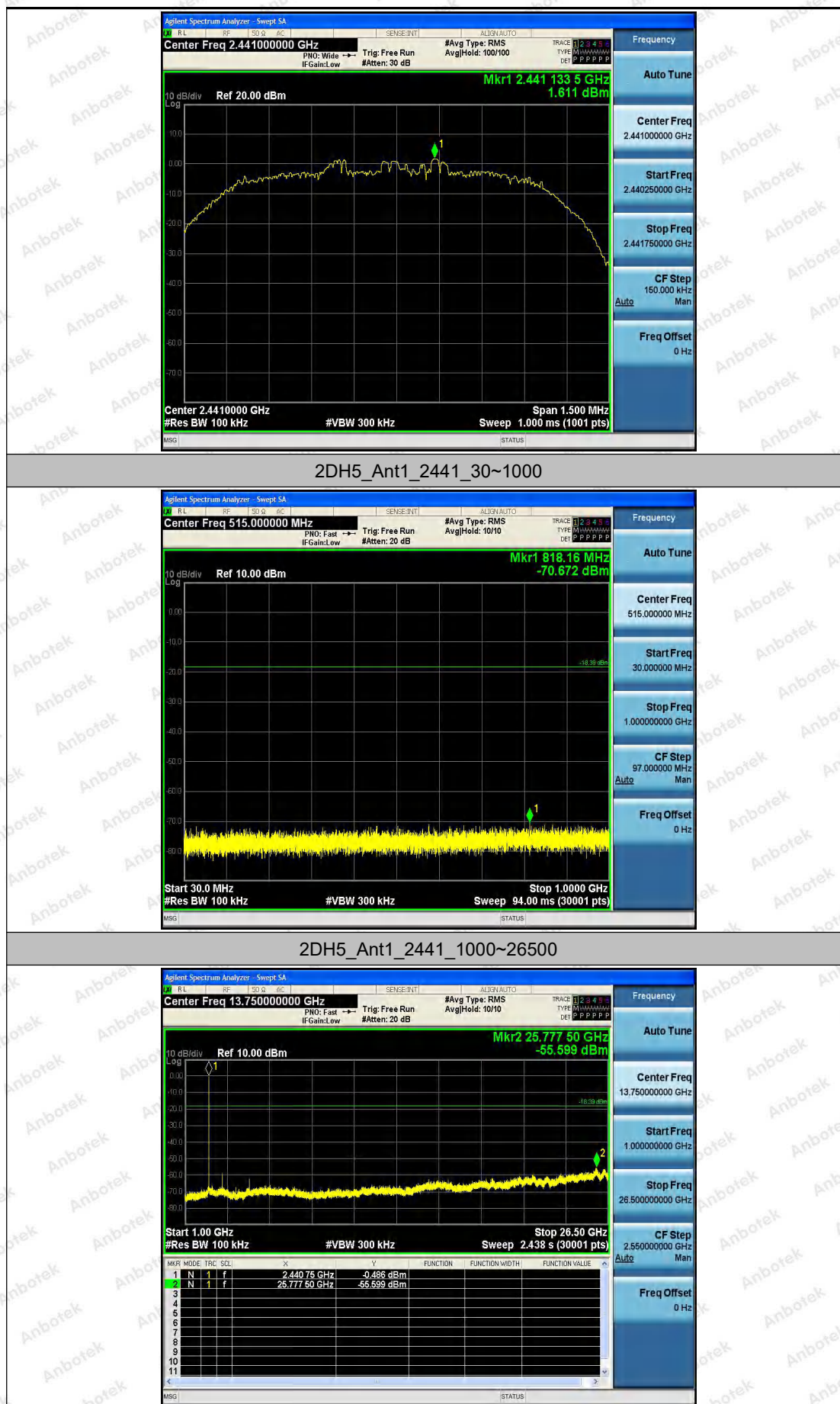


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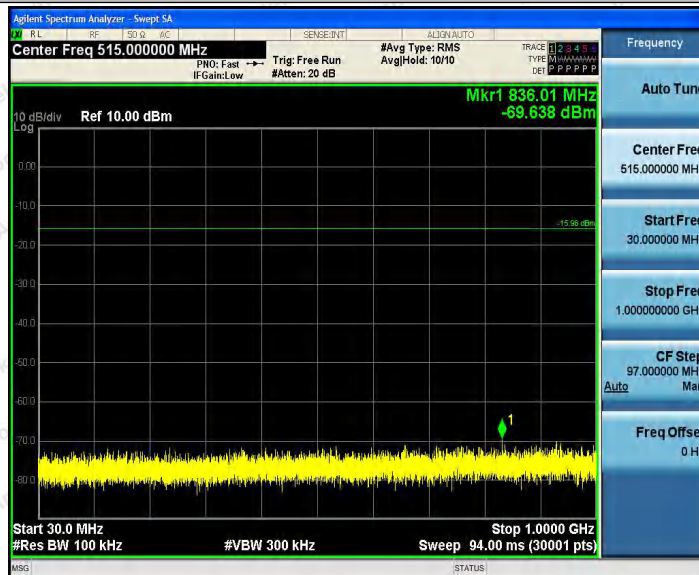
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



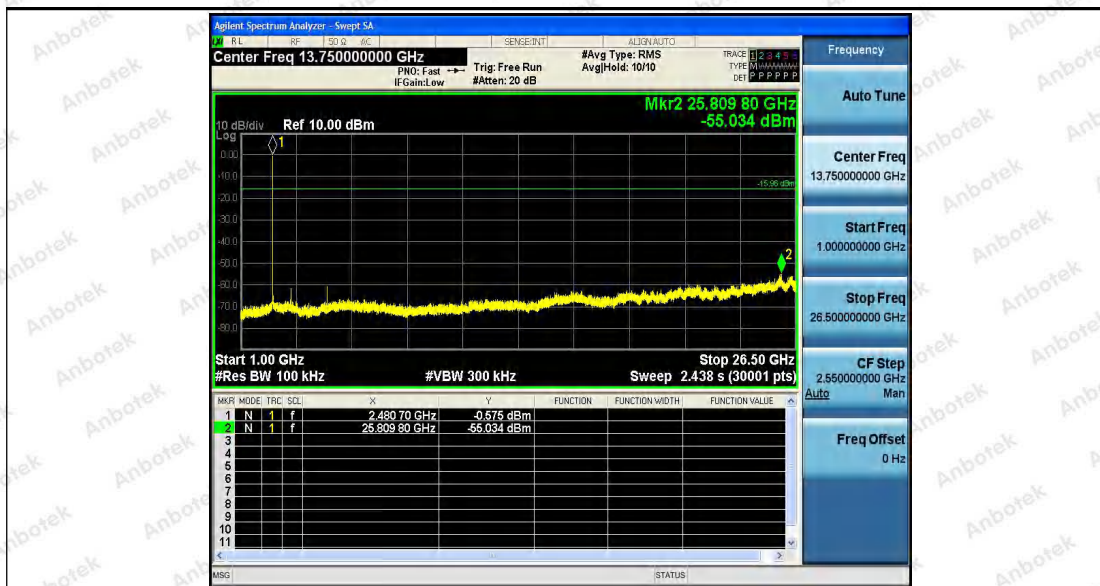
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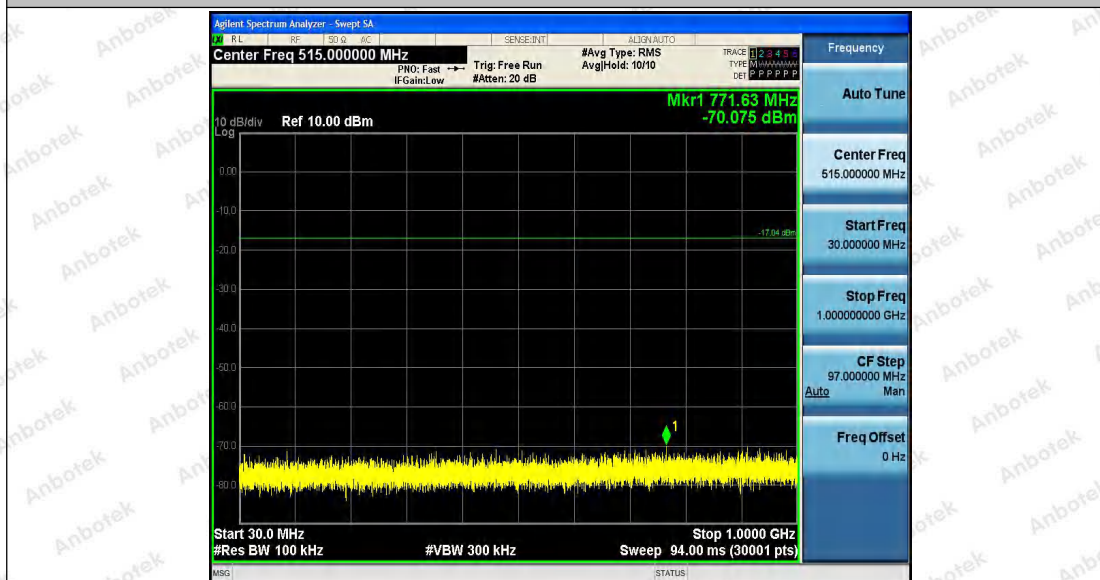
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3DH5_Ant1_2402_30~1000



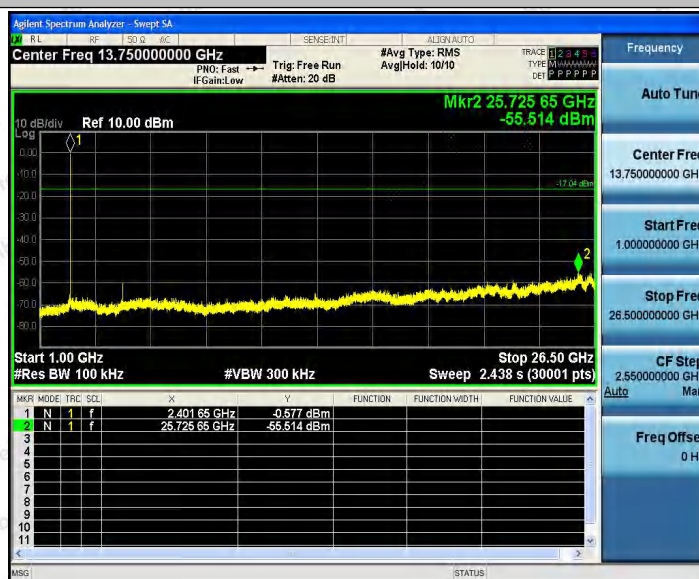
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3DH5_Ant1_2402_1000~26500



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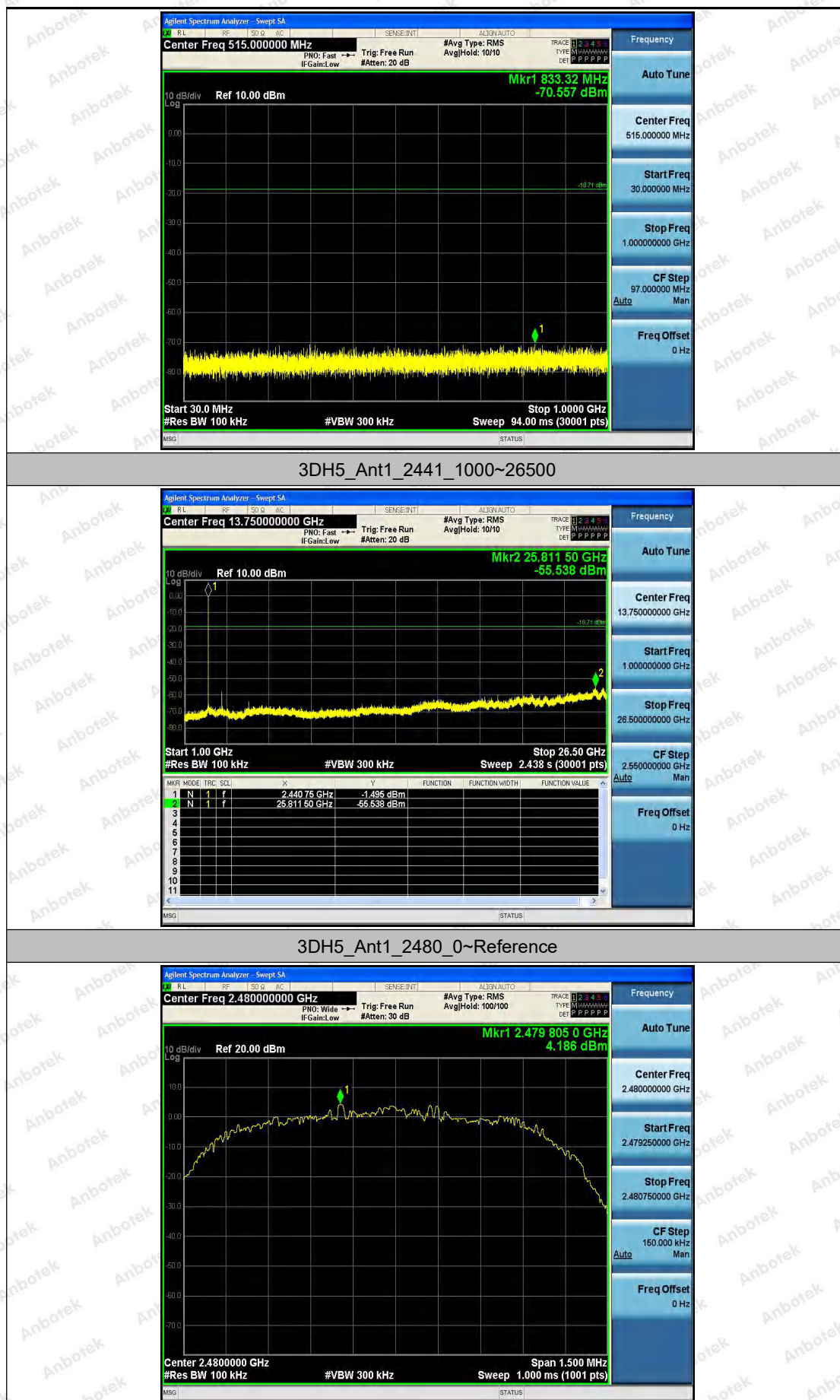
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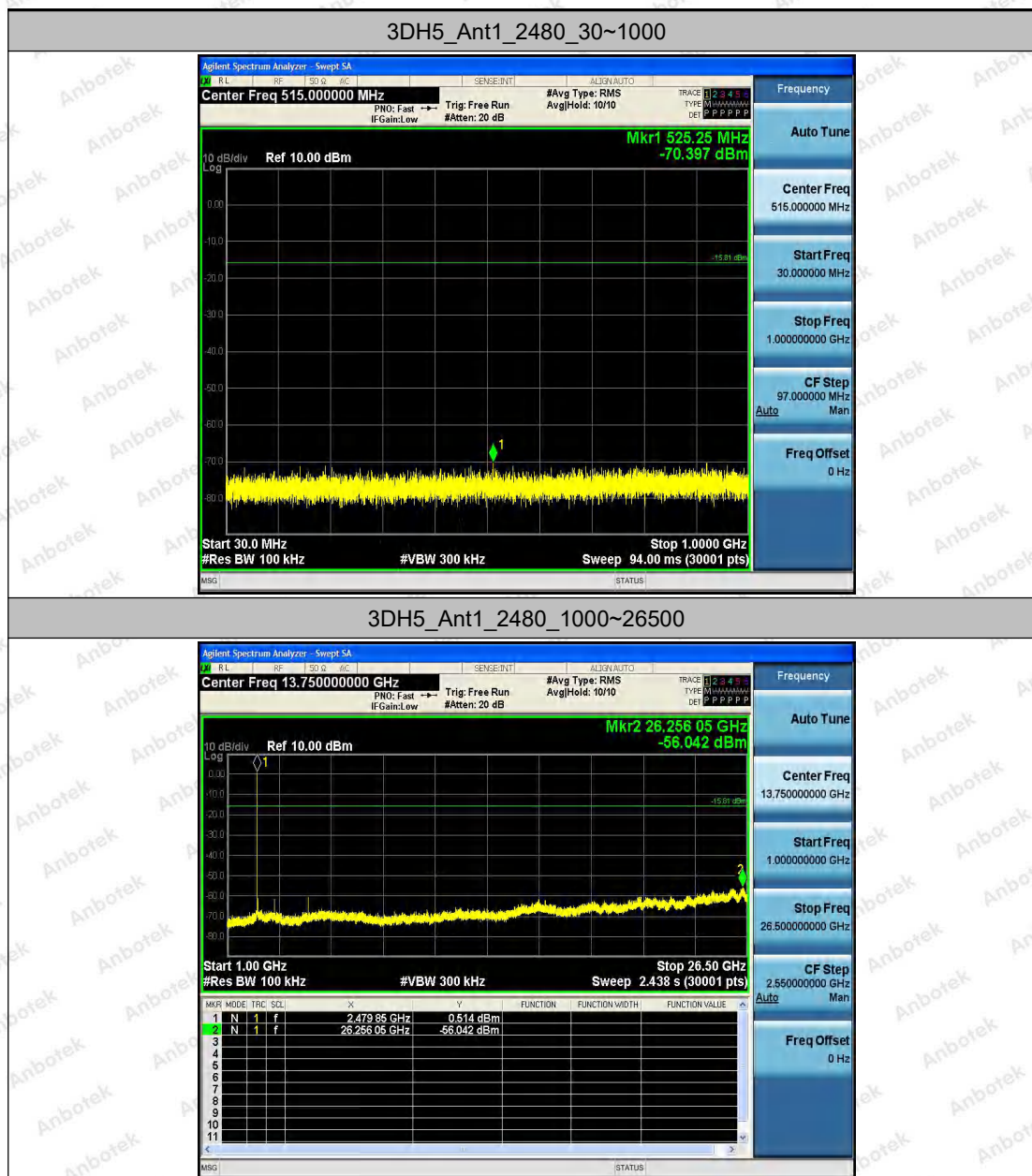


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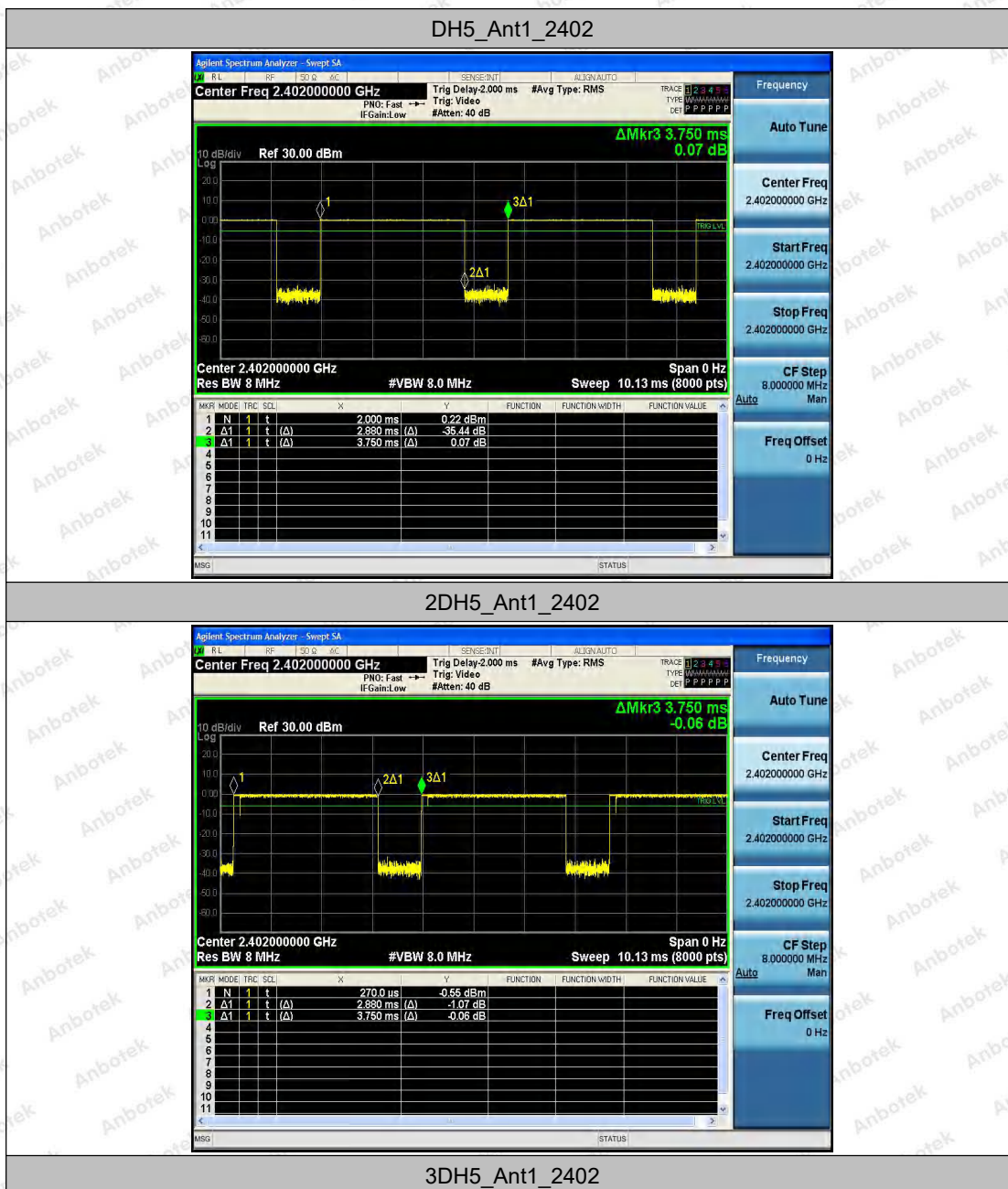
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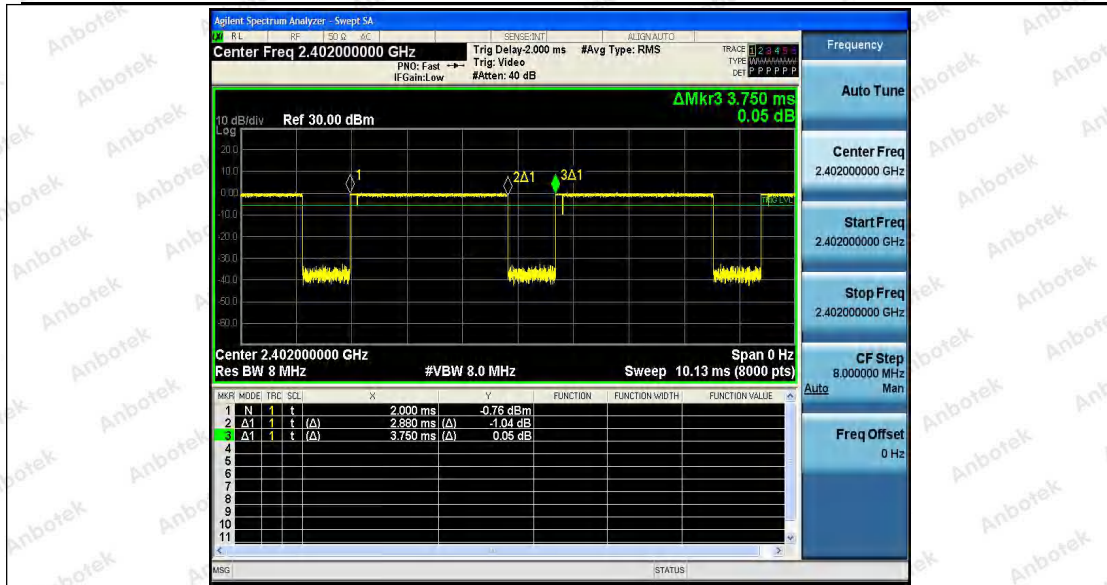
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	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





---End---