

Appendix Test Data

Report No.:	18220WC20135901	Test Sample No.:	1-2-2
Start Test Date:	2022.6.24	Finish Test Date:	2022.6.30
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.6°C	Relative Humidity:	54.8 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.891	2401.547	2402.438	---	PASS
		2441	0.936	2440.547	2441.483	---	PASS
		2480	0.882	2479.547	2480.429	---	PASS
2DH5	Ant1	2402	1.278	2401.373	2402.651	---	PASS
		2441	1.284	2440.373	2441.657	---	PASS
		2480	1.287	2479.370	2480.657	---	PASS
3DH5	Ant1	2402	1.260	2401.370	2402.630	---	PASS
		2441	1.275	2440.373	2441.648	---	PASS
		2480	1.275	2479.364	2480.639	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441

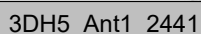
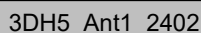


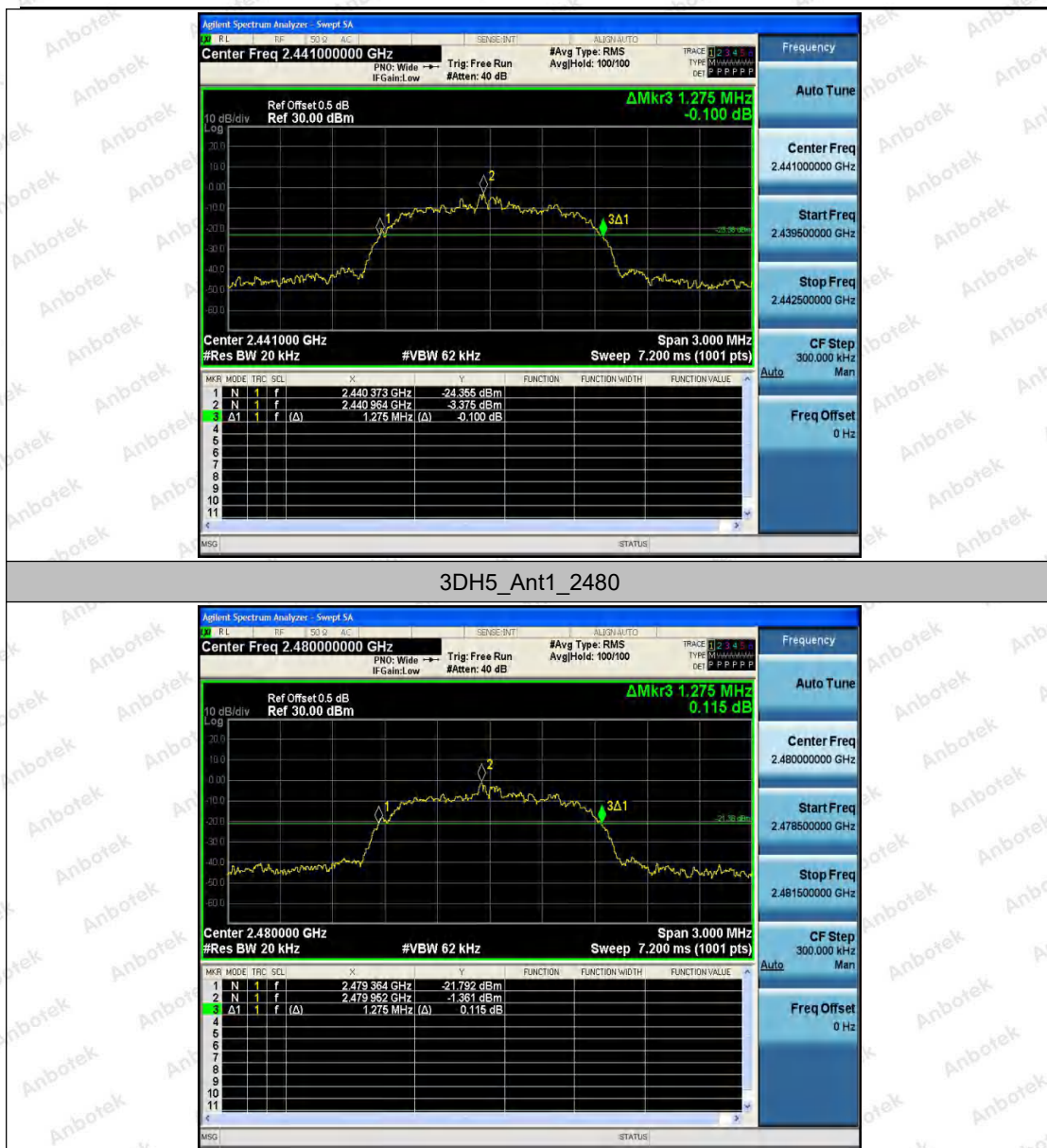
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.82657	2401.58 7	2402.413	---	PASS
		2441	0.83141	2440.58 4	2441.415	---	PASS
		2480	0.82503	2479.58 7	2480.412	---	PASS
2DH5	Ant1	2402	1.1714	2401.41 8	2402.590	---	PASS
		2441	1.1657	2440.42 2	2441.587	---	PASS
		2480	1.1663	2479.41 9	2480.585	---	PASS
3DH5	Ant1	2402	1.1748	2401.41 6	2402.591	---	PASS
		2441	1.1740	2440.42 2	2441.596	---	PASS
		2480	1.1687	2479.41 8	2480.587	---	PASS

Test Graphs

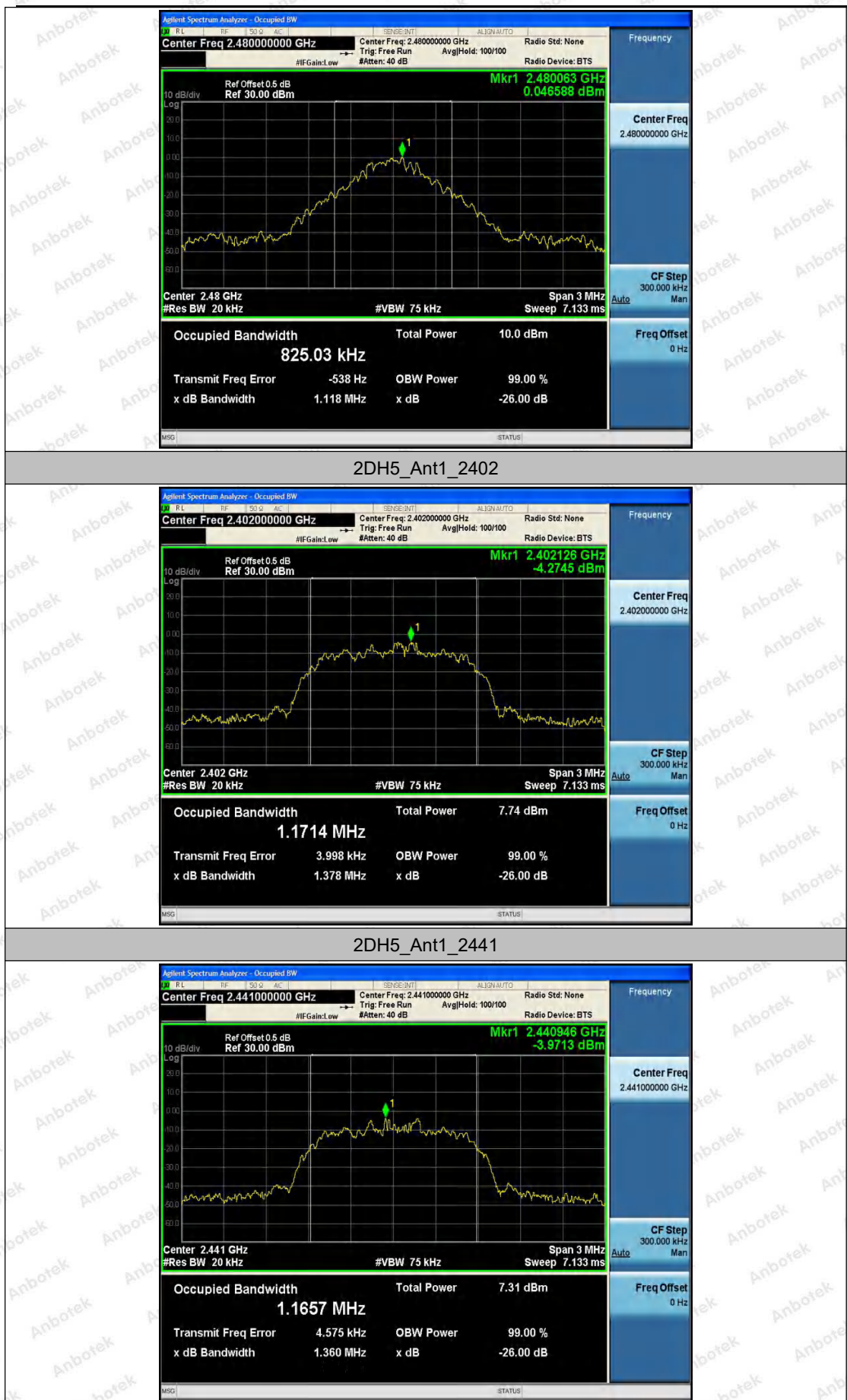


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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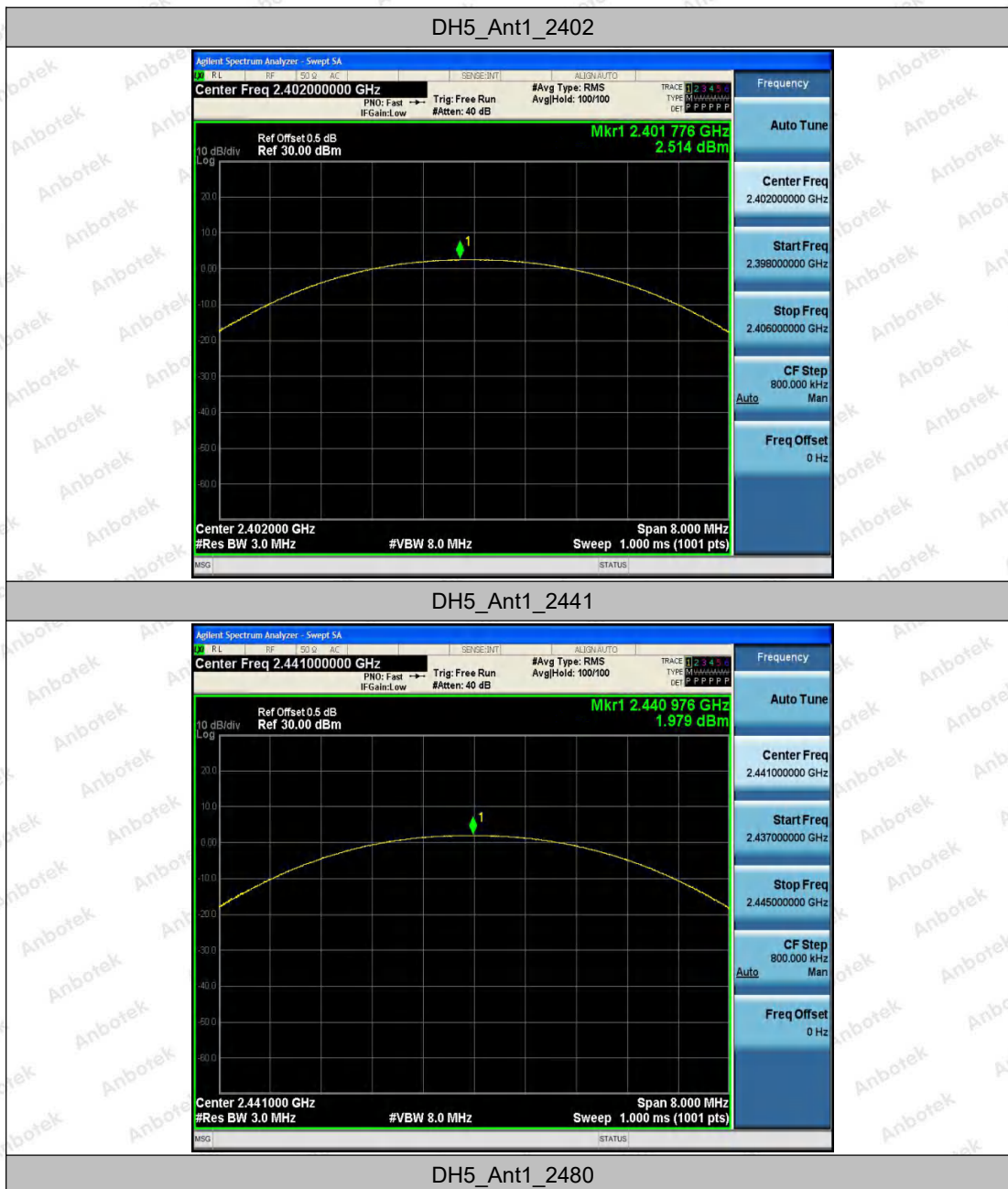
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.51	≤20.97	PASS
		2441	1.98	≤20.97	PASS
		2480	3.83	≤20.97	PASS
2DH5	Ant1	2402	3.33	≤20.97	PASS
		2441	2.8	≤20.97	PASS
		2480	4.48	≤20.97	PASS
3DH5	Ant1	2402	3.89	≤20.97	PASS
		2441	3.52	≤20.97	PASS
		2480	5.32	≤20.97	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥ 0.936	PASS
2DH5	Ant1	Hop	0.954	≥ 0.858	PASS
3DH5	Ant1	Hop	1.018	≥ 0.850	PASS

Test Graphs



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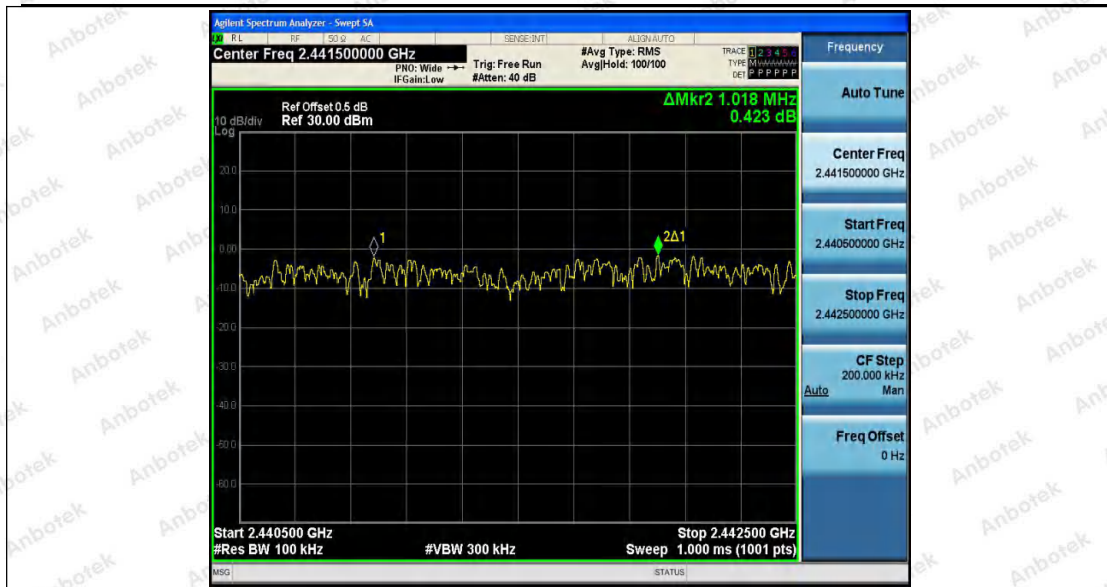
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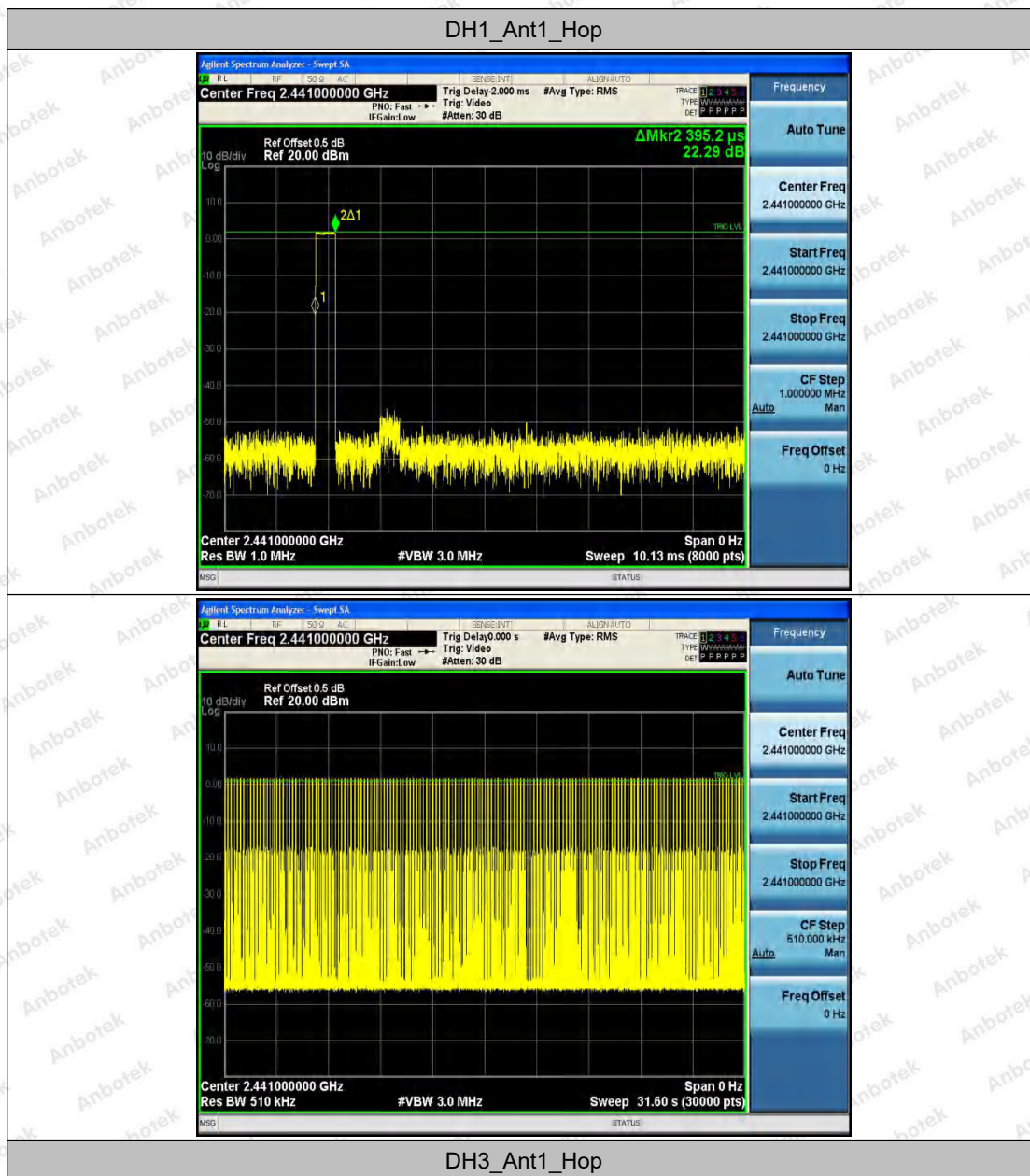
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	310	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.65	159	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.90	102	0.296	≤0.4	PASS
2DH1	Ant1	Hop	0.41	309	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.66	156	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.90	87	0.253	≤0.4	PASS
3DH1	Ant1	Hop	0.41	311	0.126	≤0.4	PASS
3DH3	Ant1	Hop	1.66	152	0.252	≤0.4	PASS
3DH5	Ant1	Hop	2.91	117	0.34	≤0.4	PASS

Test Graphs

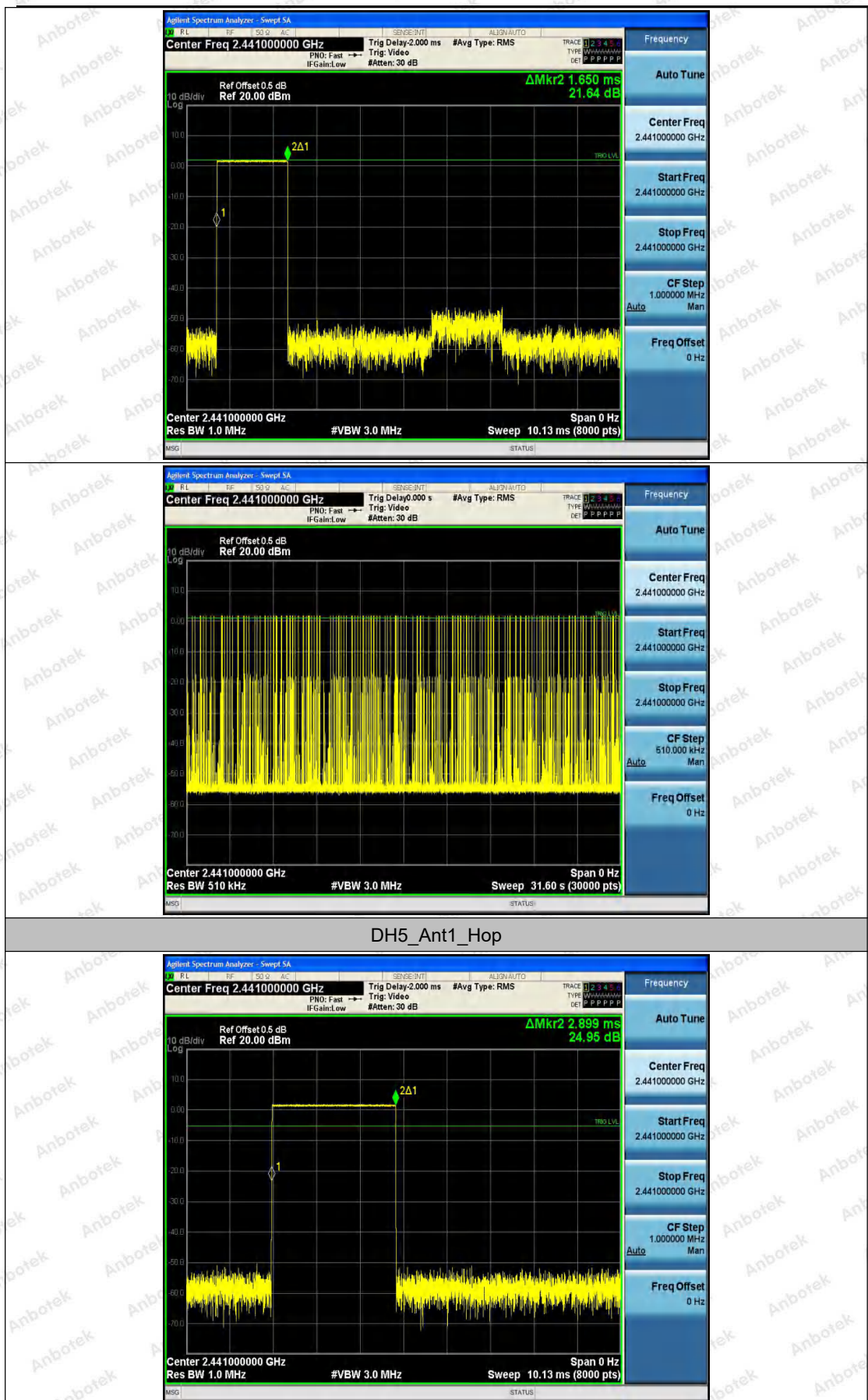


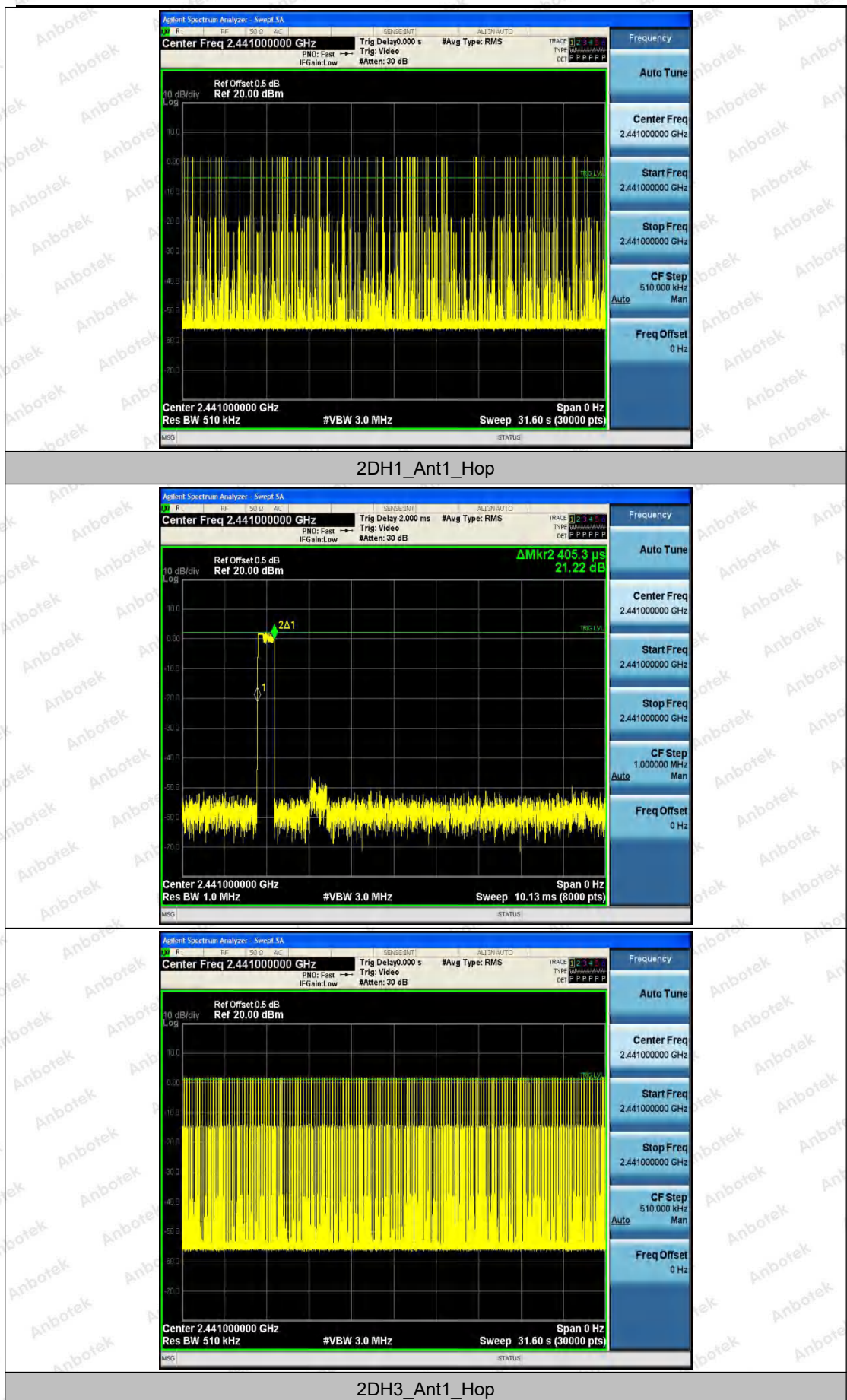
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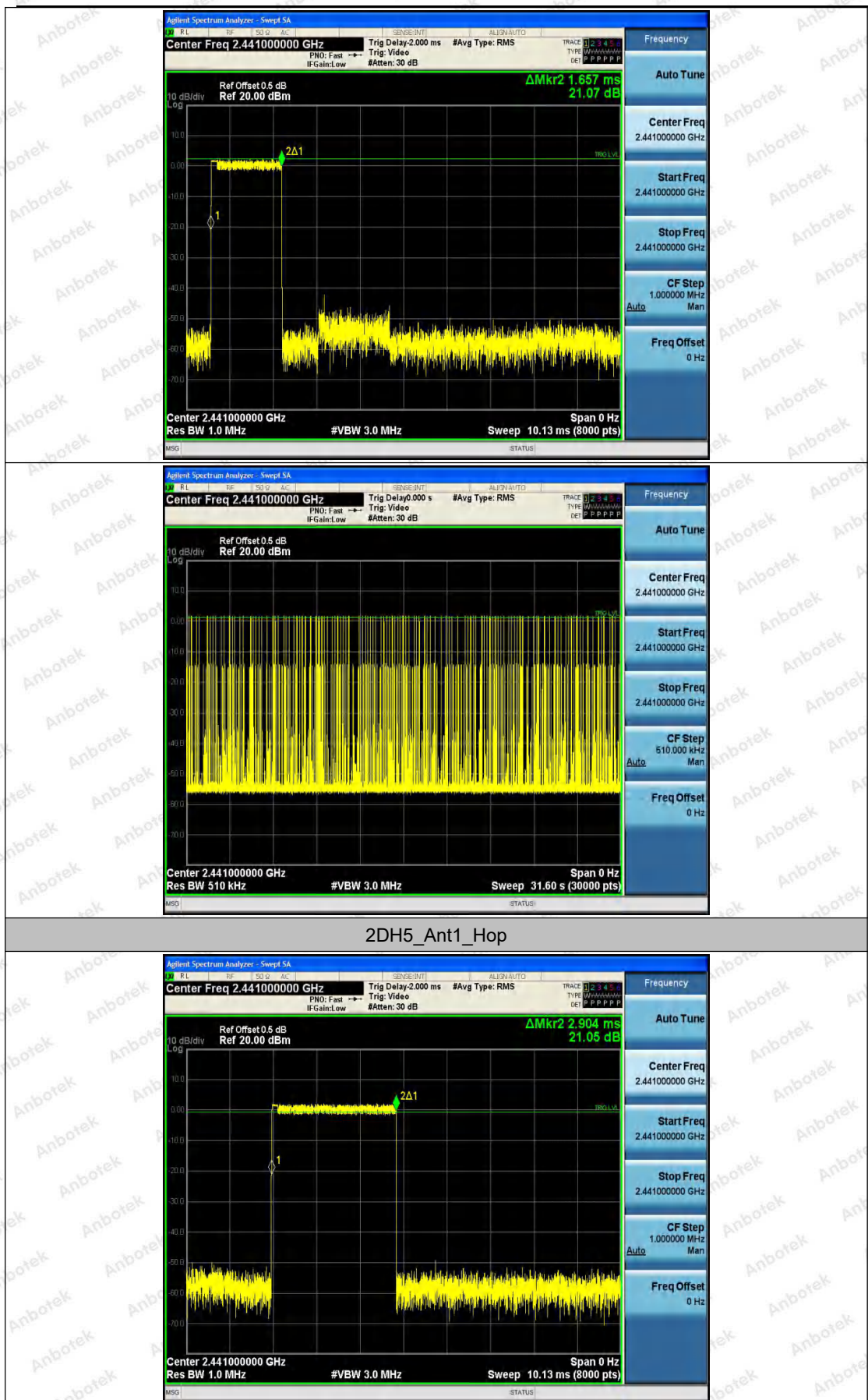


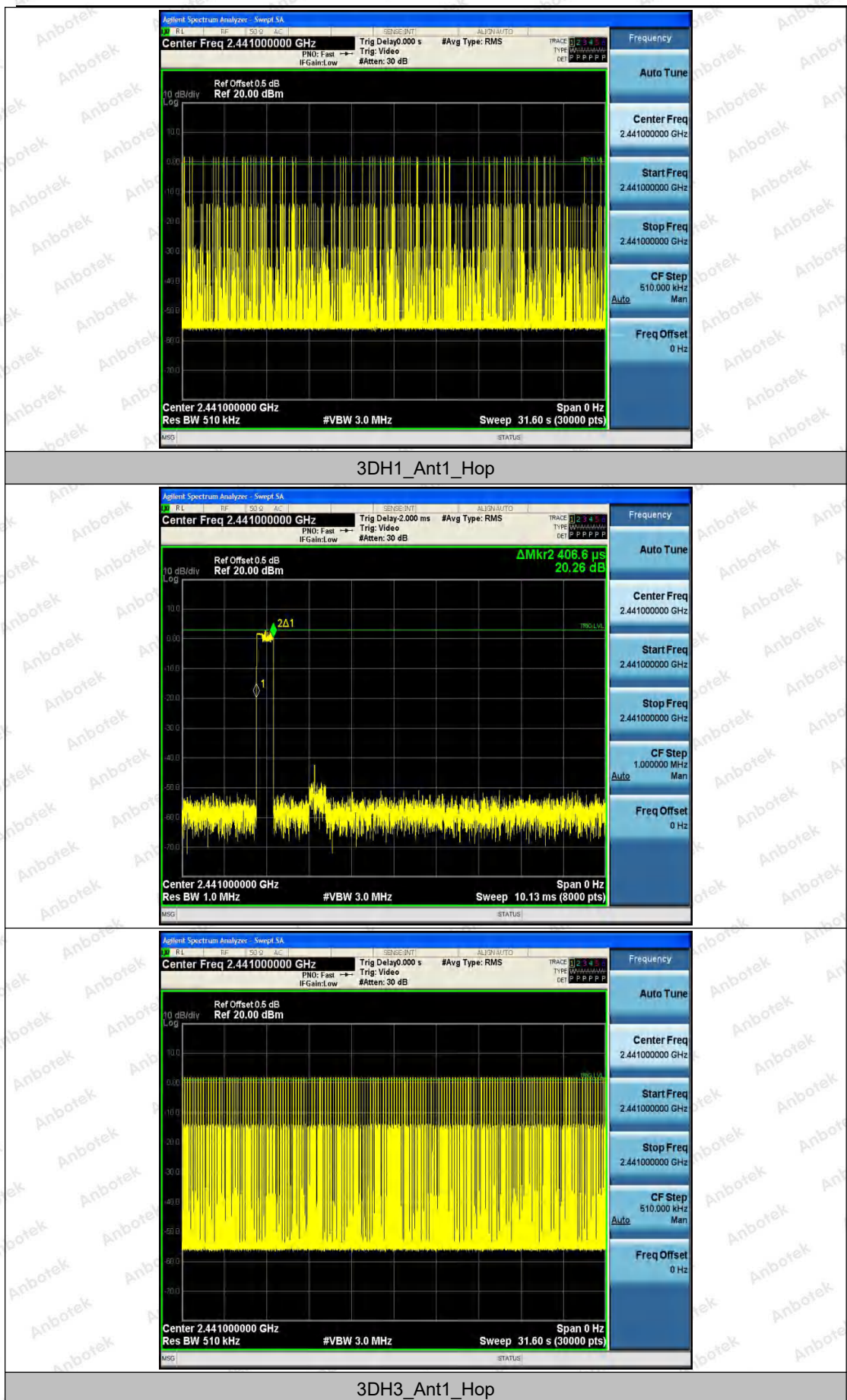
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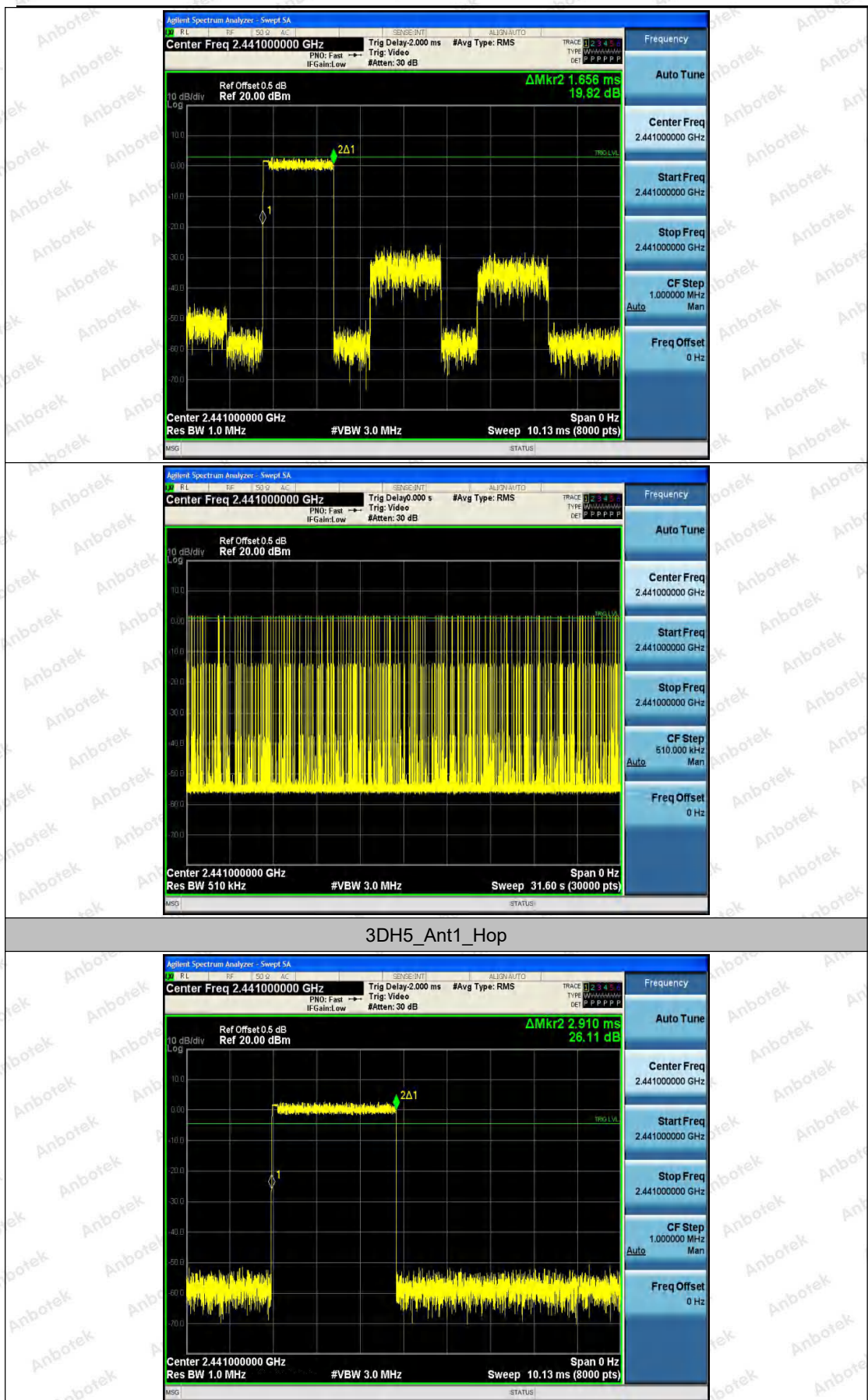


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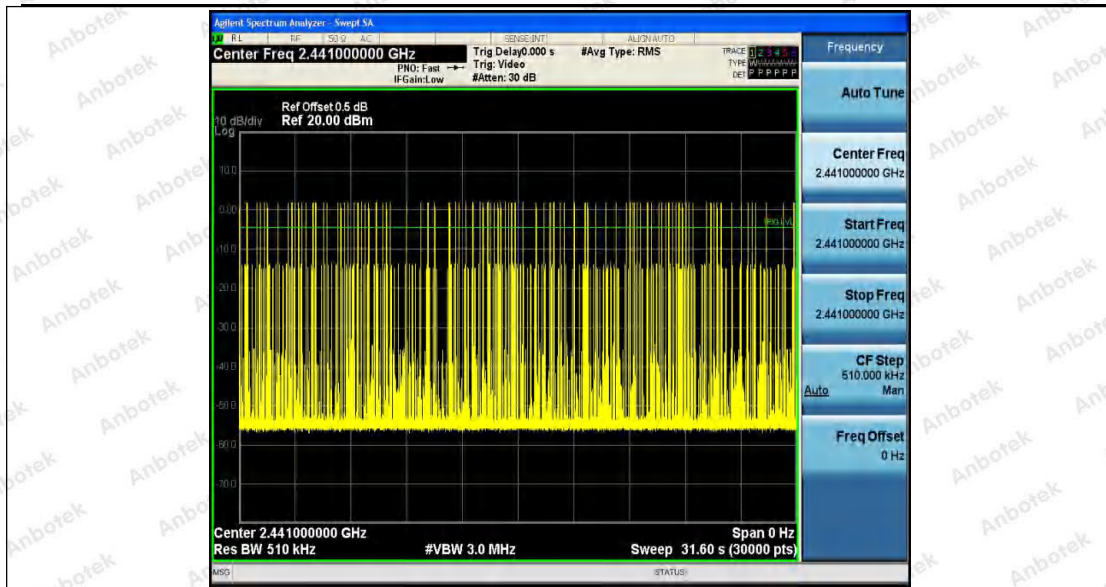
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3DH5_Ant1_Hop



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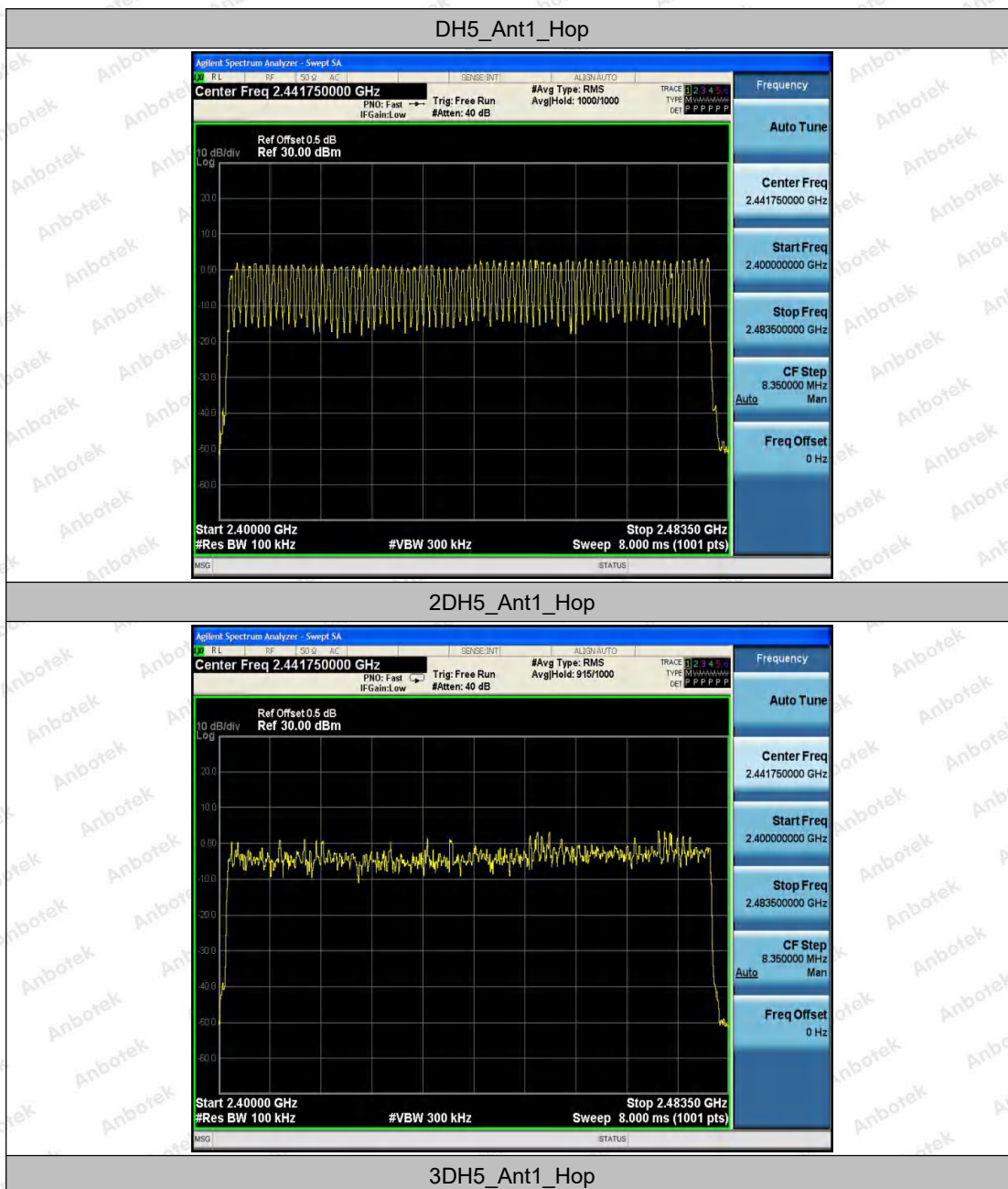
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Appendix F: Number of hopping channels

Test Result

TestMode	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

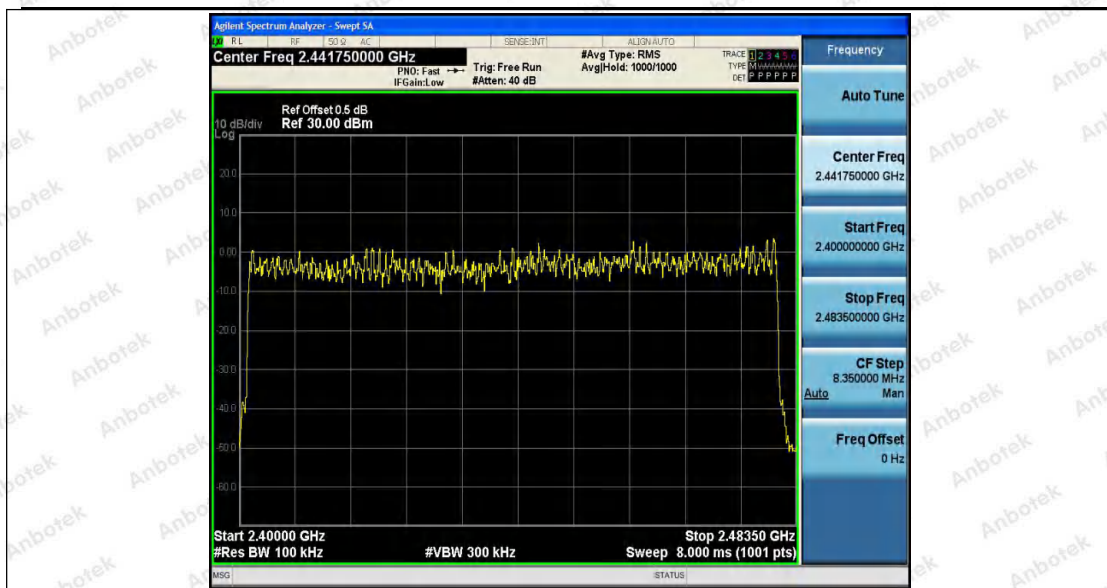


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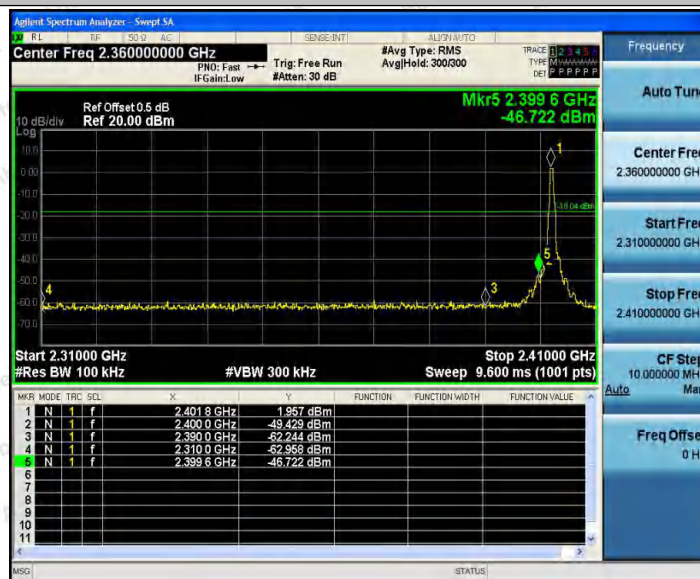
Appendix G: Band edge measurements

Test Result

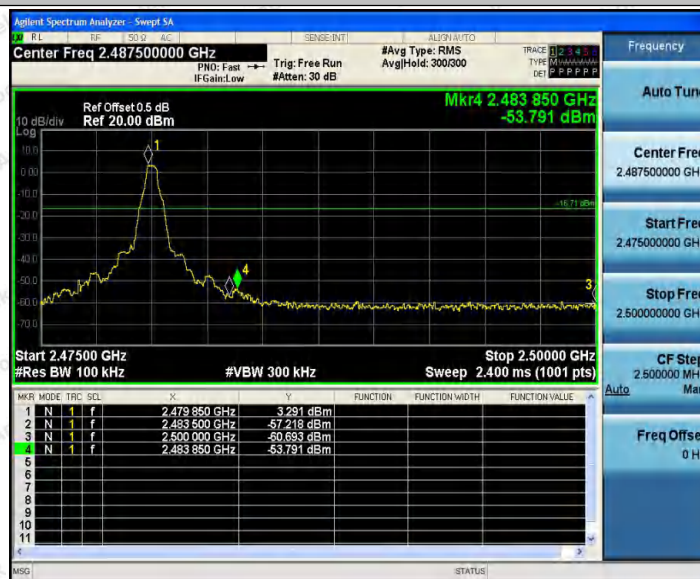
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.96	-46.72	≤-18.04	PASS
		High	2480	3.29	-53.79	≤-16.71	PASS
		Low	Hop	1.89	-58.94	≤-18.12	PASS
		High	Hop	2.65	-61.29	≤-17.35	PASS
2DH5	Ant1	Low	2402	2.09	-42.11	≤-17.92	PASS
		High	2480	3.08	-50.86	≤-16.92	PASS
		Low	Hop	-2.71	-58.83	≤-22.71	PASS
		High	Hop	0.69	-61.48	≤-19.31	PASS
3DH5	Ant1	Low	2402	1.63	-45.85	≤-18.37	PASS
		High	2480	3.02	-55.05	≤-16.98	PASS
		Low	Hop	-0.38	-59.13	≤-20.38	PASS
		High	Hop	0.56	-61.06	≤-19.44	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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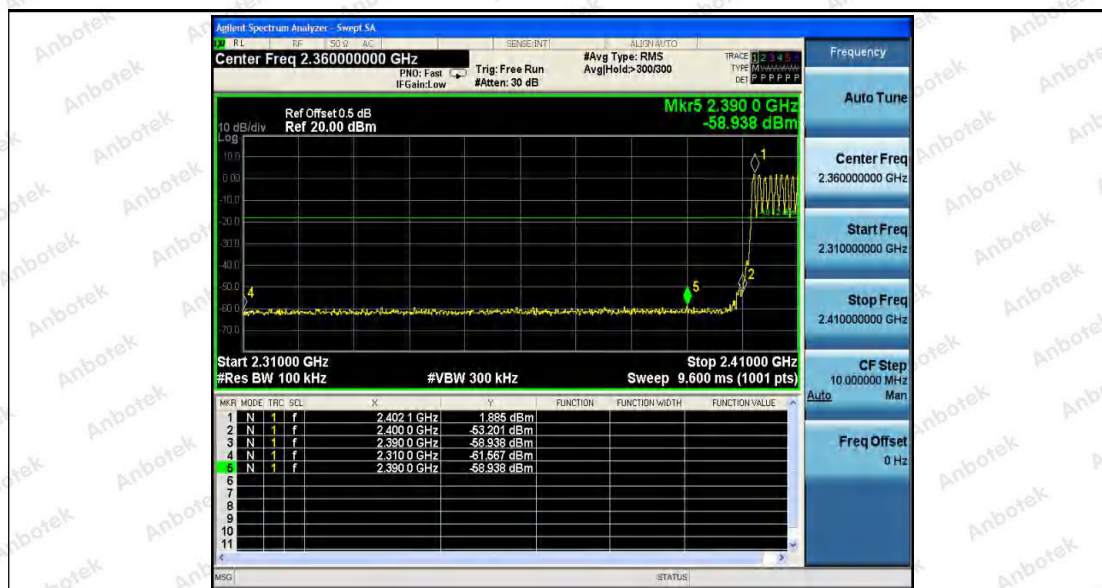
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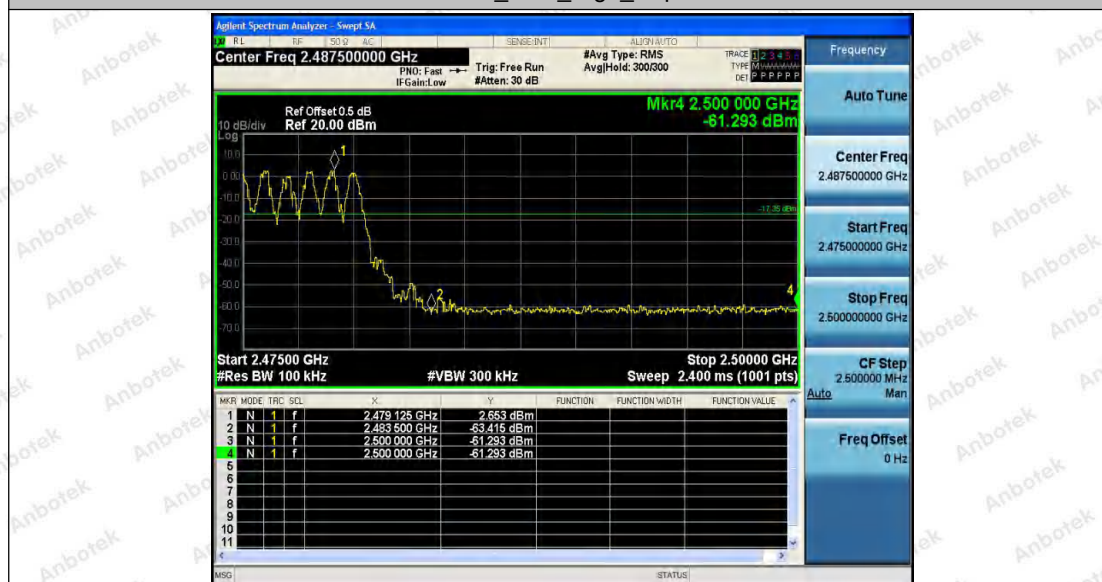
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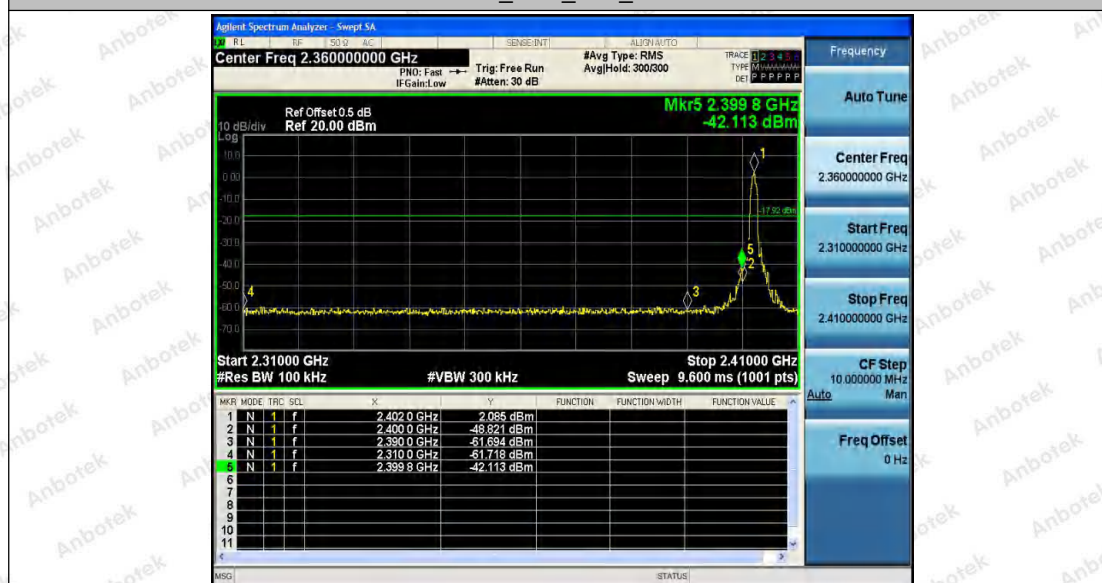
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



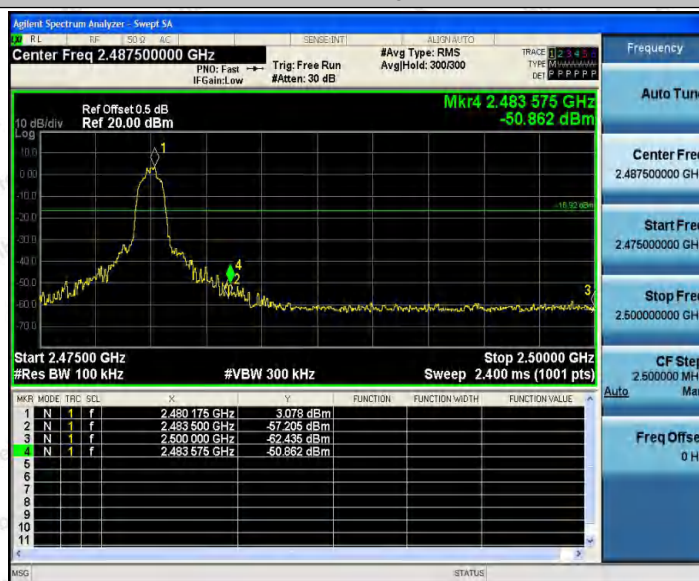
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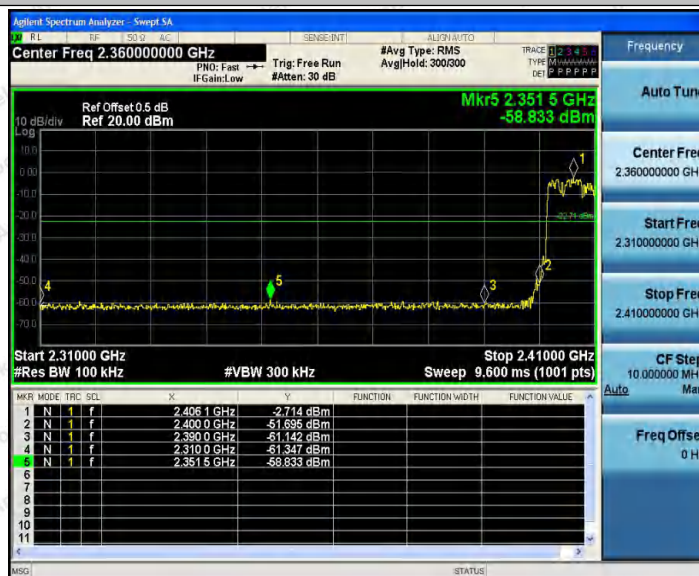
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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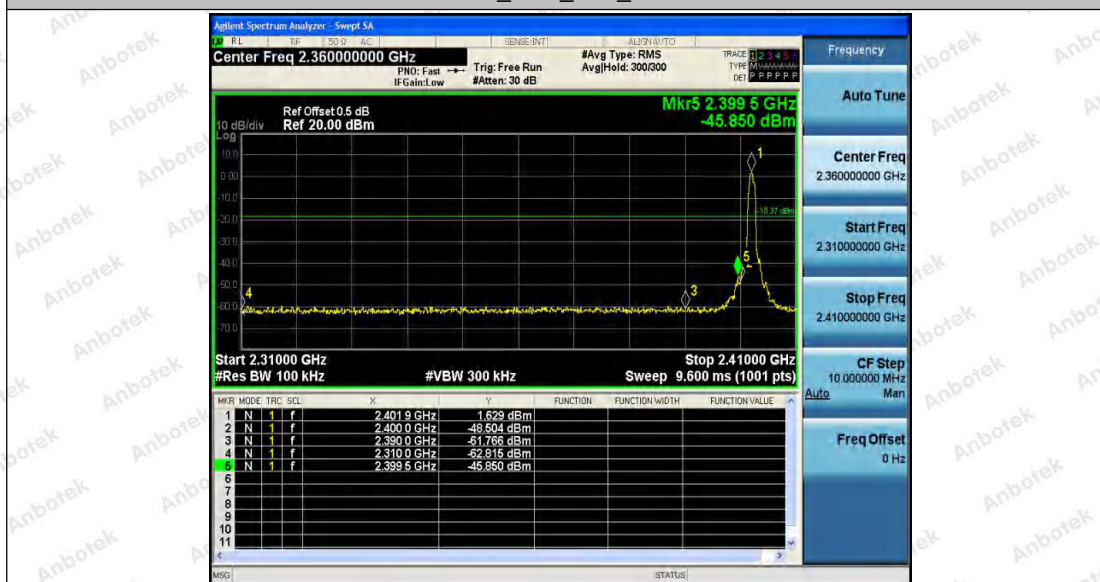
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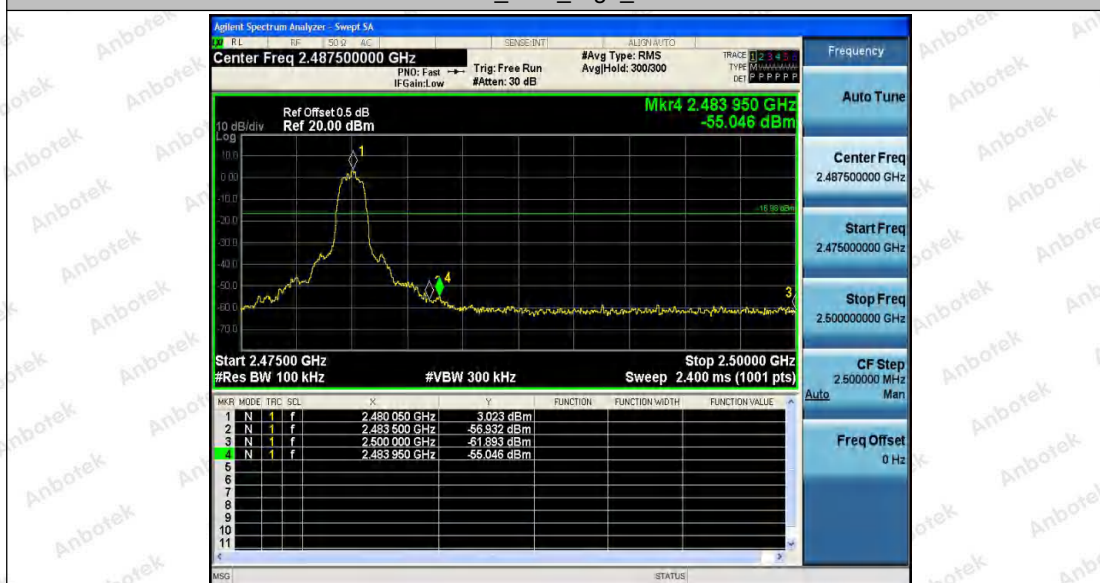
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

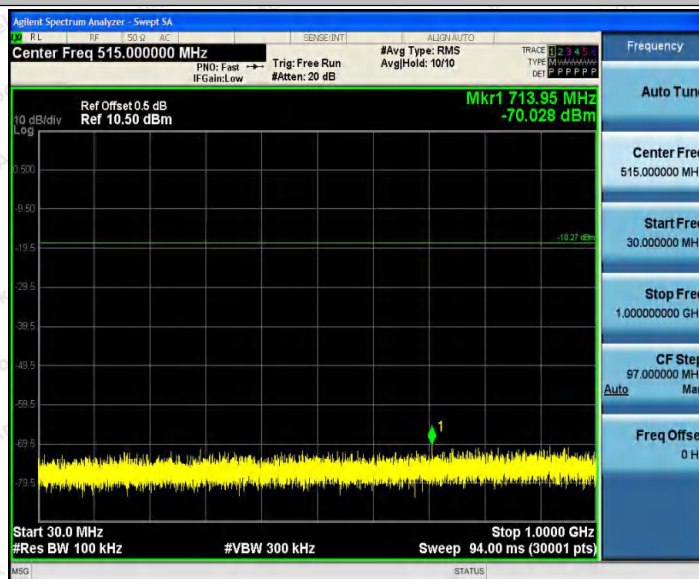
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-70.03	≤-18.27	PASS
			1000~26500	1.73	-43.03	≤-18.27	PASS
		2441	Reference	1.22	1.22	---	PASS
			30~1000	1.22	-69.96	≤-18.78	PASS
			1000~26500	1.22	-43.41	≤-18.78	PASS
		2480	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-69.57	≤-17.16	PASS
			1000~26500	2.84	-41.6	≤-17.16	PASS
2DH5	Ant1	2402	Reference	2.07	2.07	---	PASS
			30~1000	2.07	-70.11	≤-17.93	PASS
			1000~26500	2.07	-45.42	≤-17.93	PASS
		2441	Reference	0.82	0.82	---	PASS
			30~1000	0.82	-70.25	≤-19.18	PASS
			1000~26500	0.82	-46.03	≤-19.18	PASS
		2480	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-69.72	≤-17.34	PASS
			1000~26500	2.66	-46.5	≤-17.34	PASS
3DH5	Ant1	2402	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-69.96	≤-18.5	PASS
			1000~26500	1.50	-44.68	≤-18.5	PASS
		2441	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-68.91	≤-19.2	PASS
			1000~26500	0.80	-43.79	≤-19.2	PASS
		2480	Reference	2.46	2.46	---	PASS
			30~1000	2.46	-69.89	≤-17.54	PASS
			1000~26500	2.46	-42.36	≤-17.54	PASS

Test Graphs

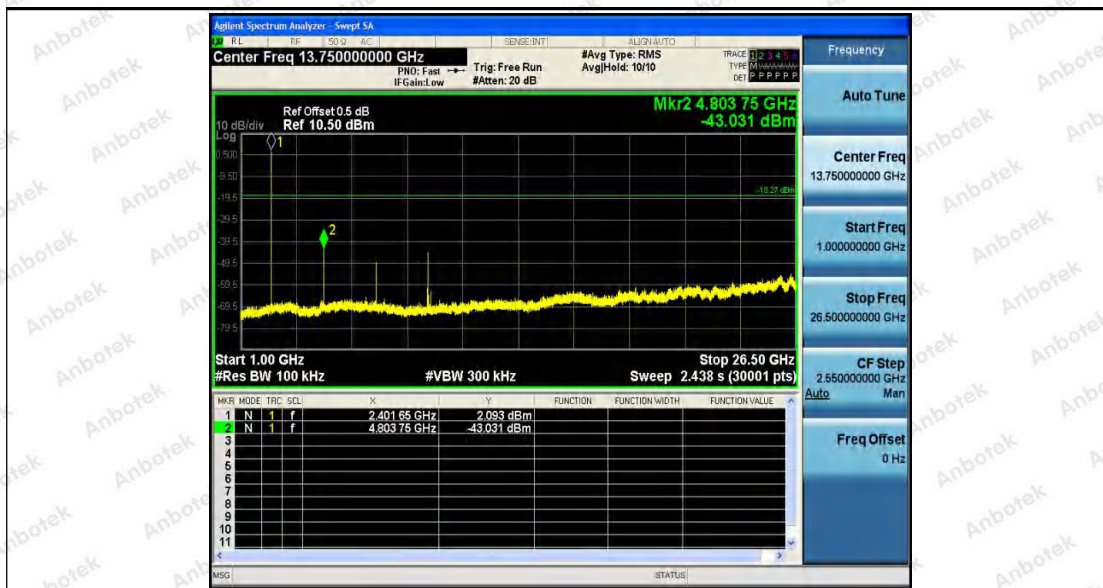
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



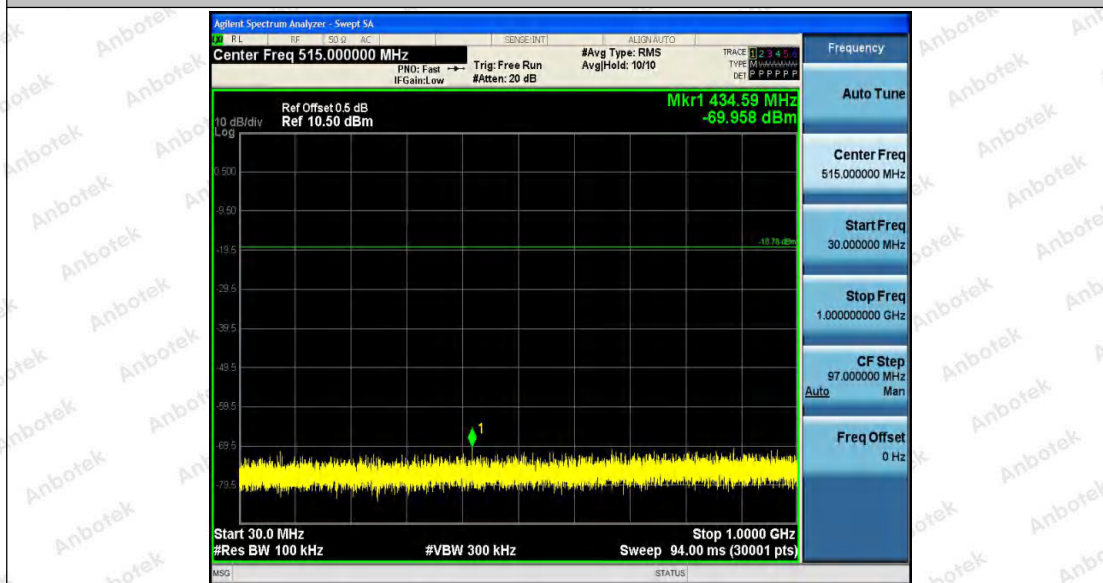
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



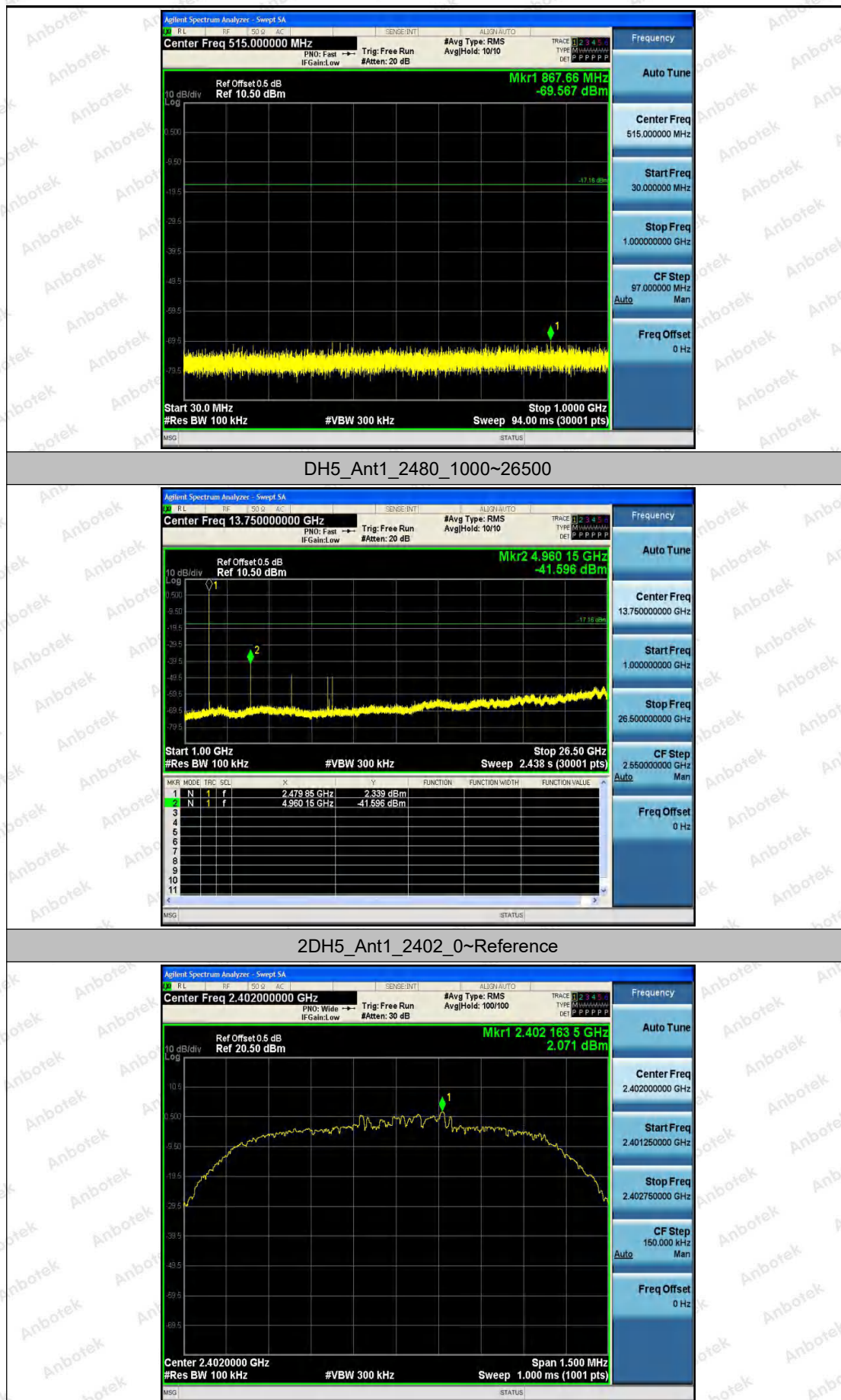
DH5_Ant1_2480_30~1000

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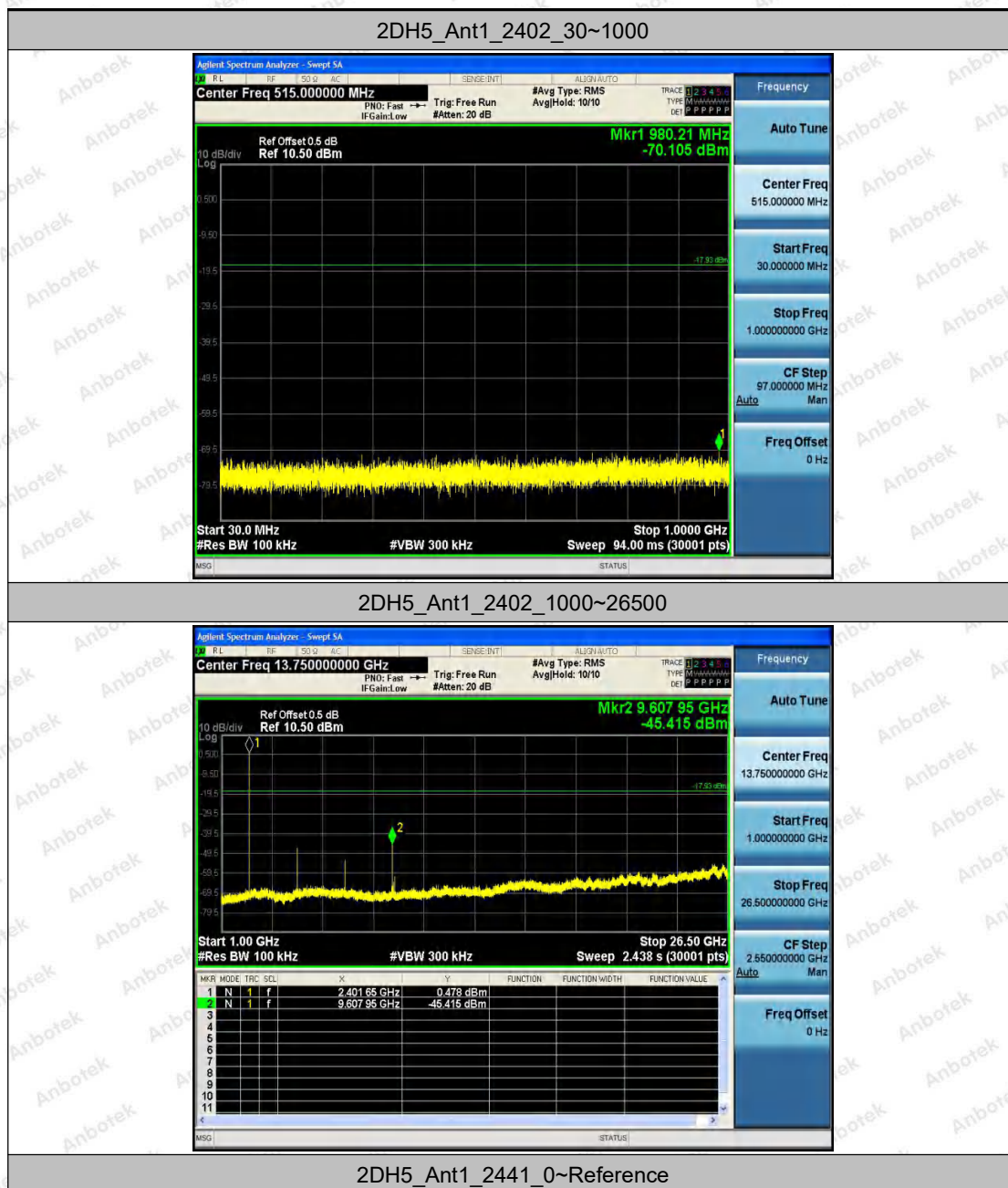


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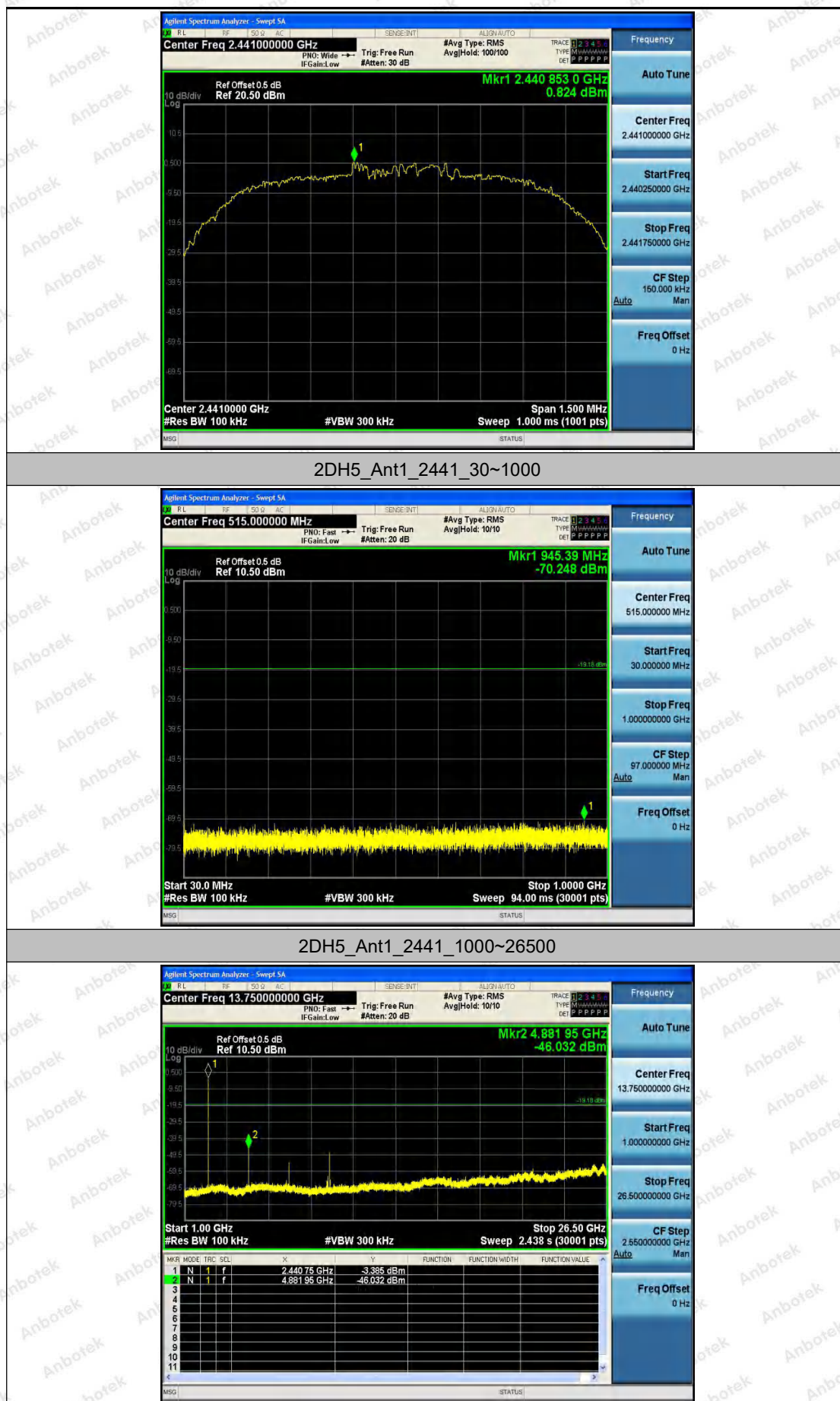


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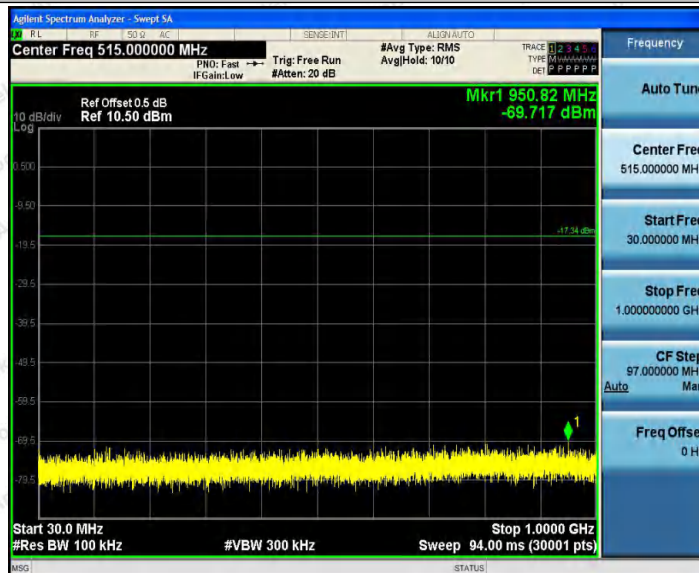
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

Hotline
400-003-0500
www.anbotech.com

2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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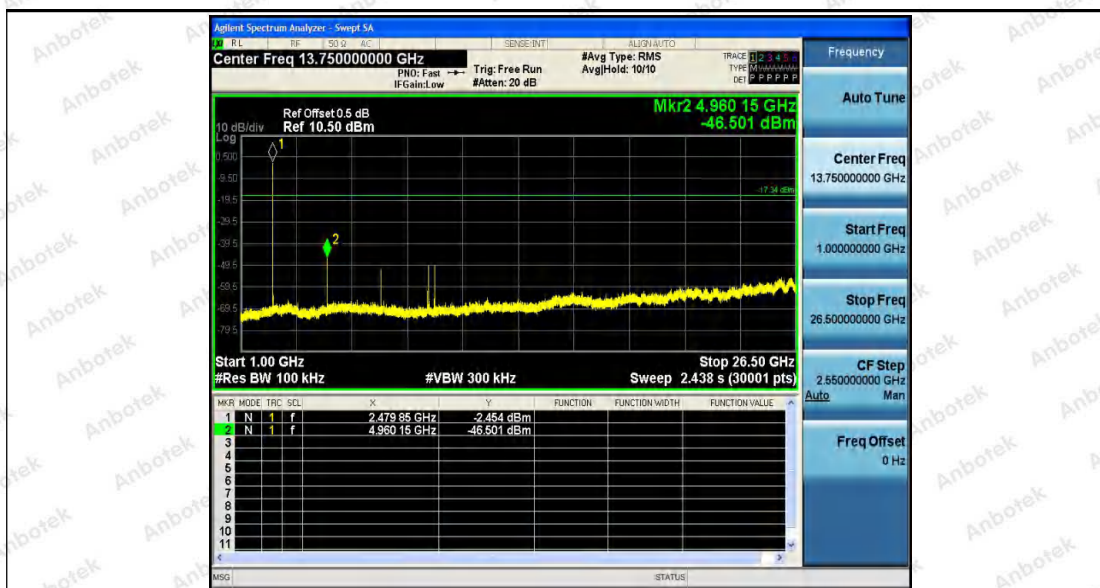
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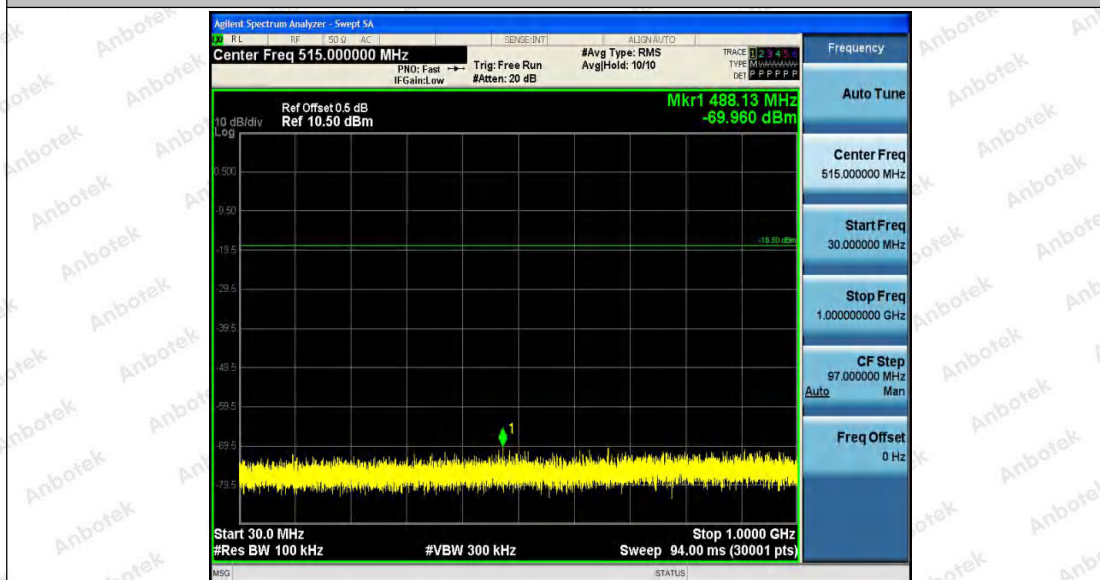
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



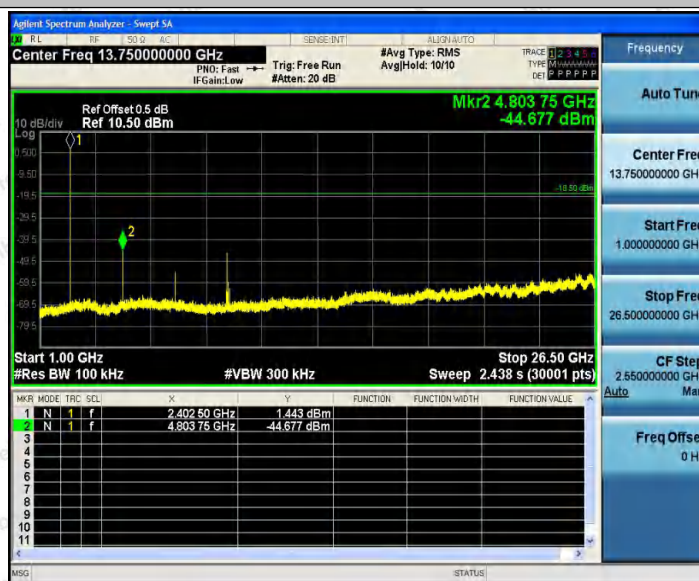
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



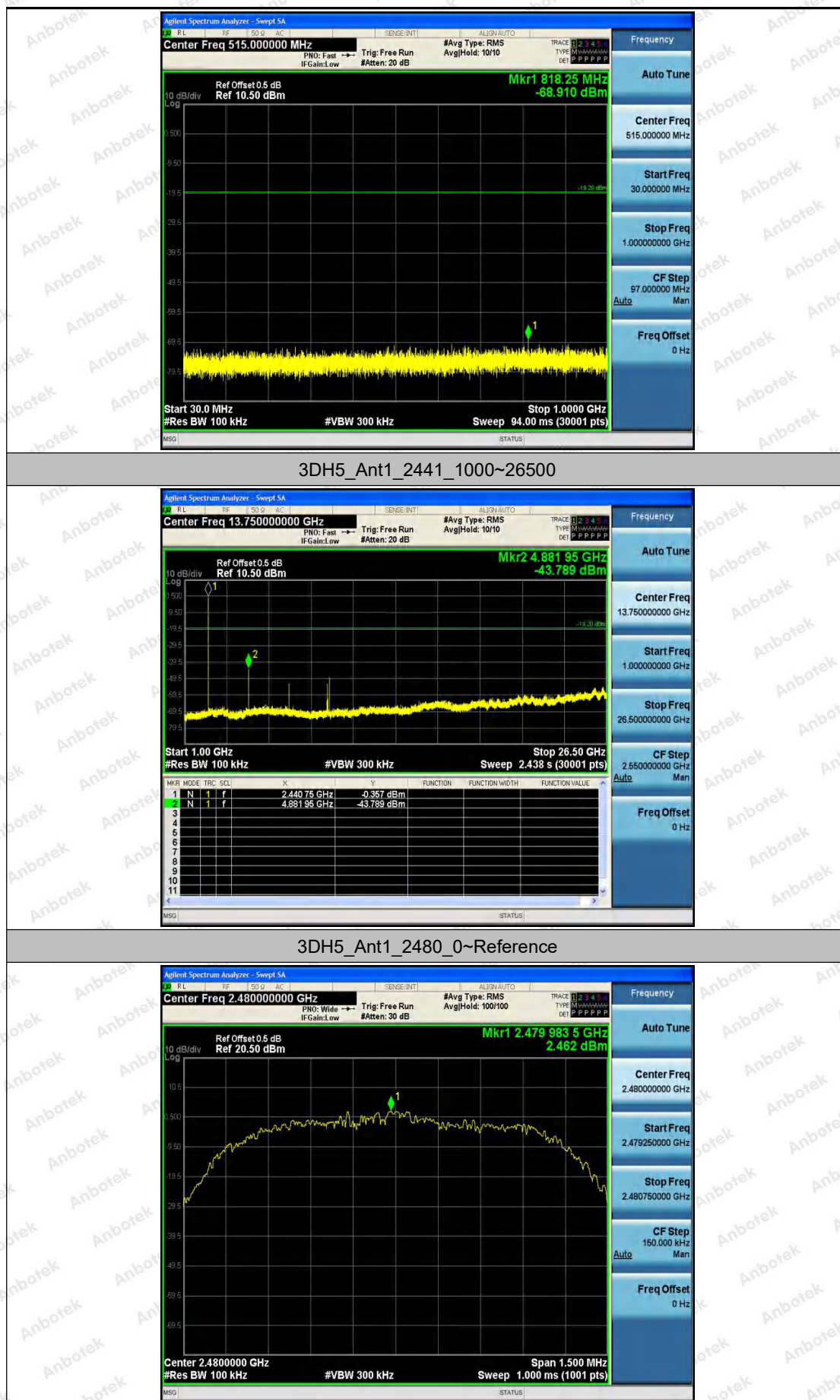
3DH5_Ant1_2441_30~1000

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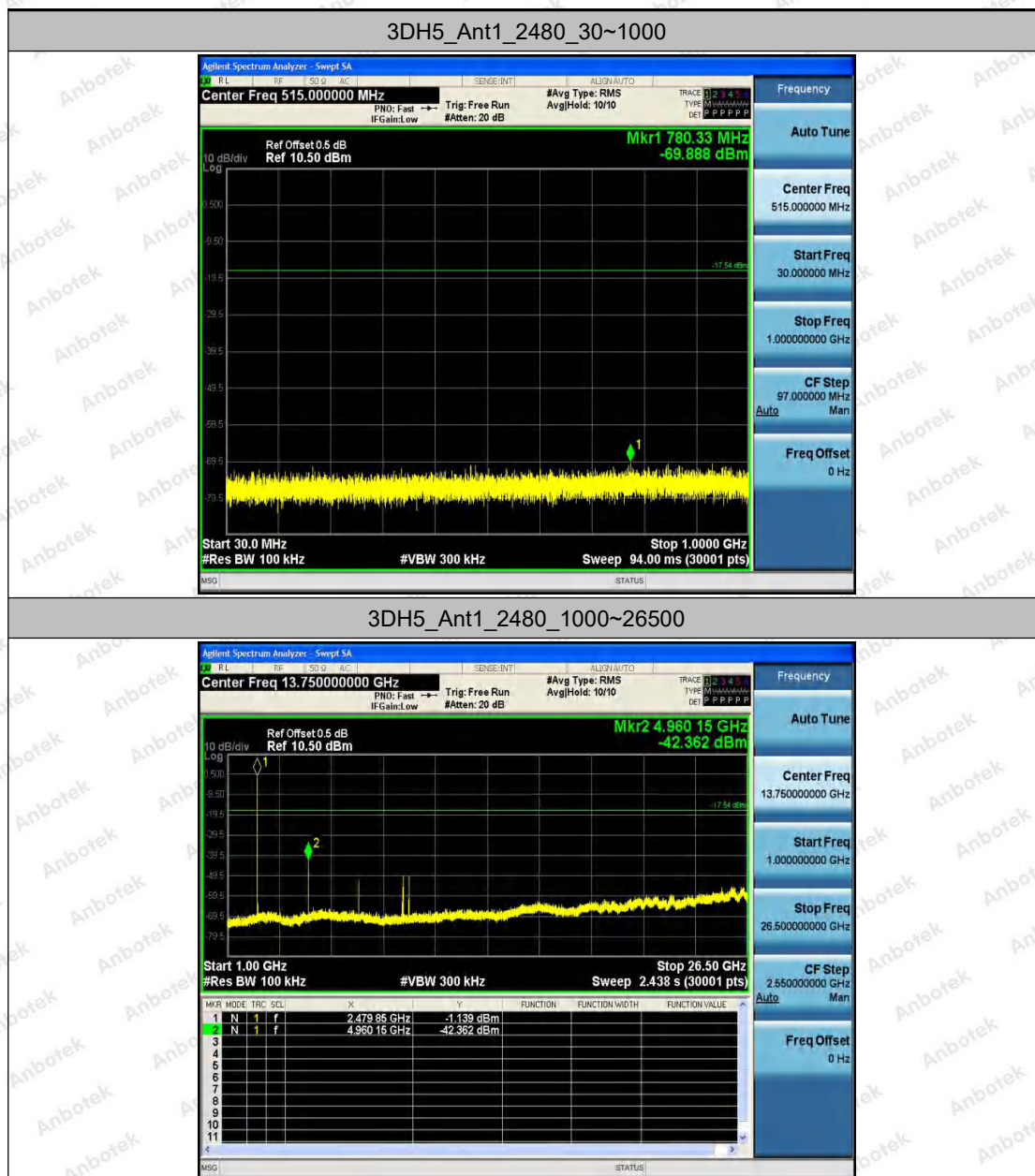


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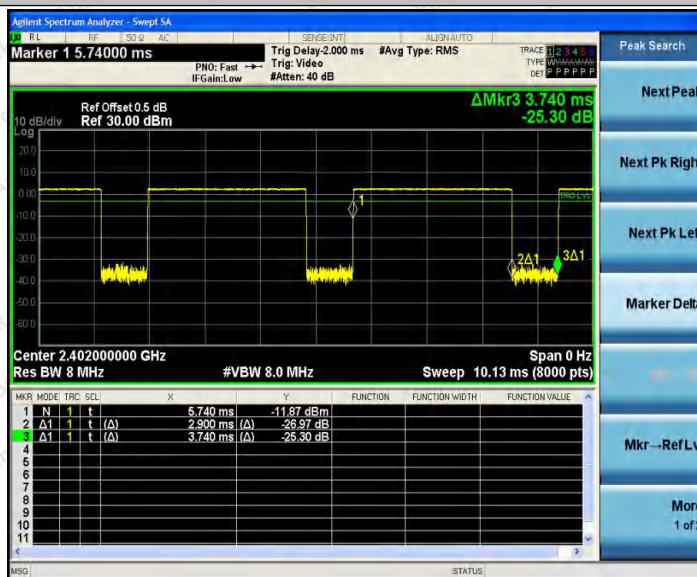
Appendix I: Duty Cycle

Test Result

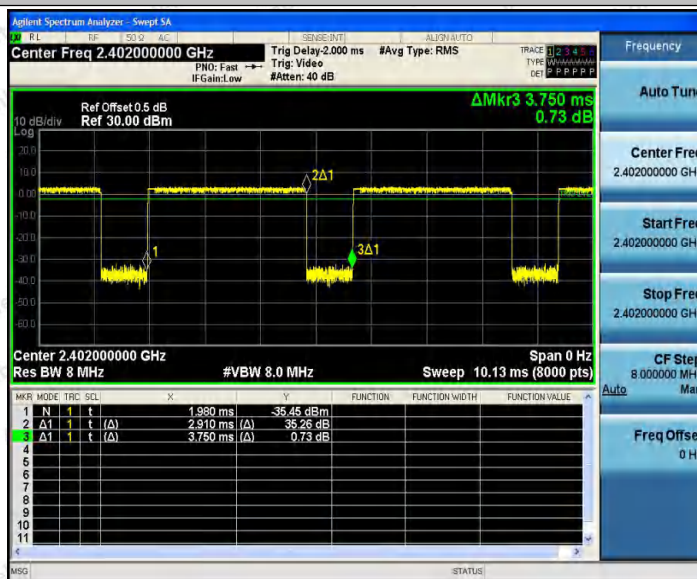
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.74	0.775 4	77.54	1.10	---	PASS
2DH5	Ant1	2402	2.91	3.75	0.776 0	77.60	1.10	---	PASS
3DH5	Ant1	2402	2.91	3.75	0.776 0	77.60	1.10	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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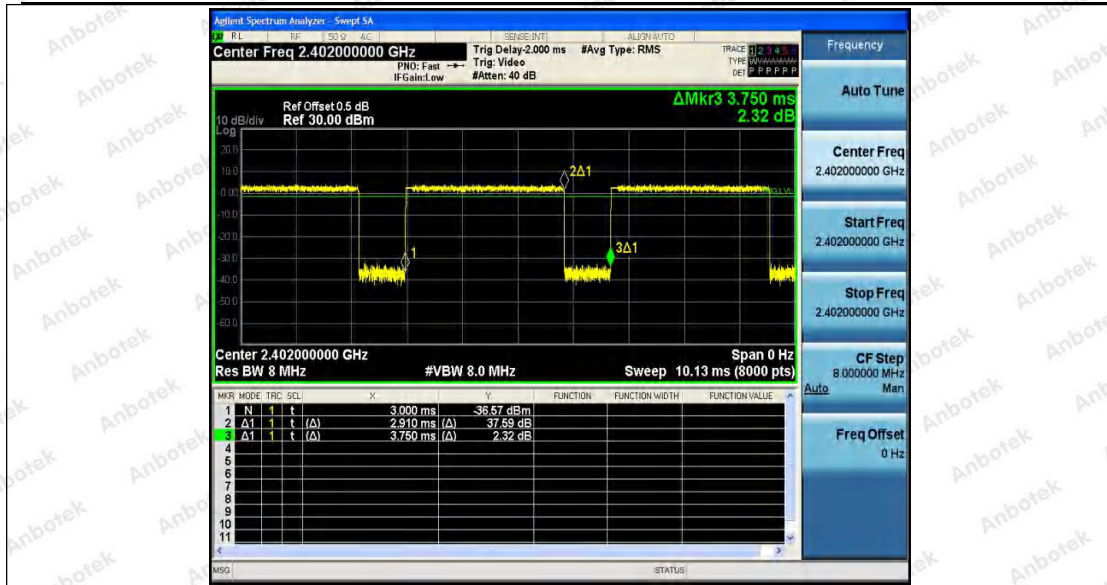
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