

Appendix Test Data

Report No.:	18220WC20140301	Test Sample No.:	1-2-2
Start Test Date:	2022.7.4	Finish Test Date:	2022.7.7
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3C°	Relative Humidity:	57.2 %
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	2401.517	2402.408	---	PASS
		2441	0.891	2440.517	2441.408	---	PASS
		2480	0.891	2479.517	2480.408	---	PASS
2DH5	Ant1	2402	1.329	2401.310	2402.639	---	PASS
		2441	1.332	2440.310	2441.642	---	PASS
		2480	1.332	2479.310	2480.642	---	PASS
3DH5	Ant1	2402	1.230	2401.349	2402.579	---	PASS
		2441	1.233	2440.346	2441.579	---	PASS
		2480	1.233	2479.346	2480.579	---	PASS

Test Graphs

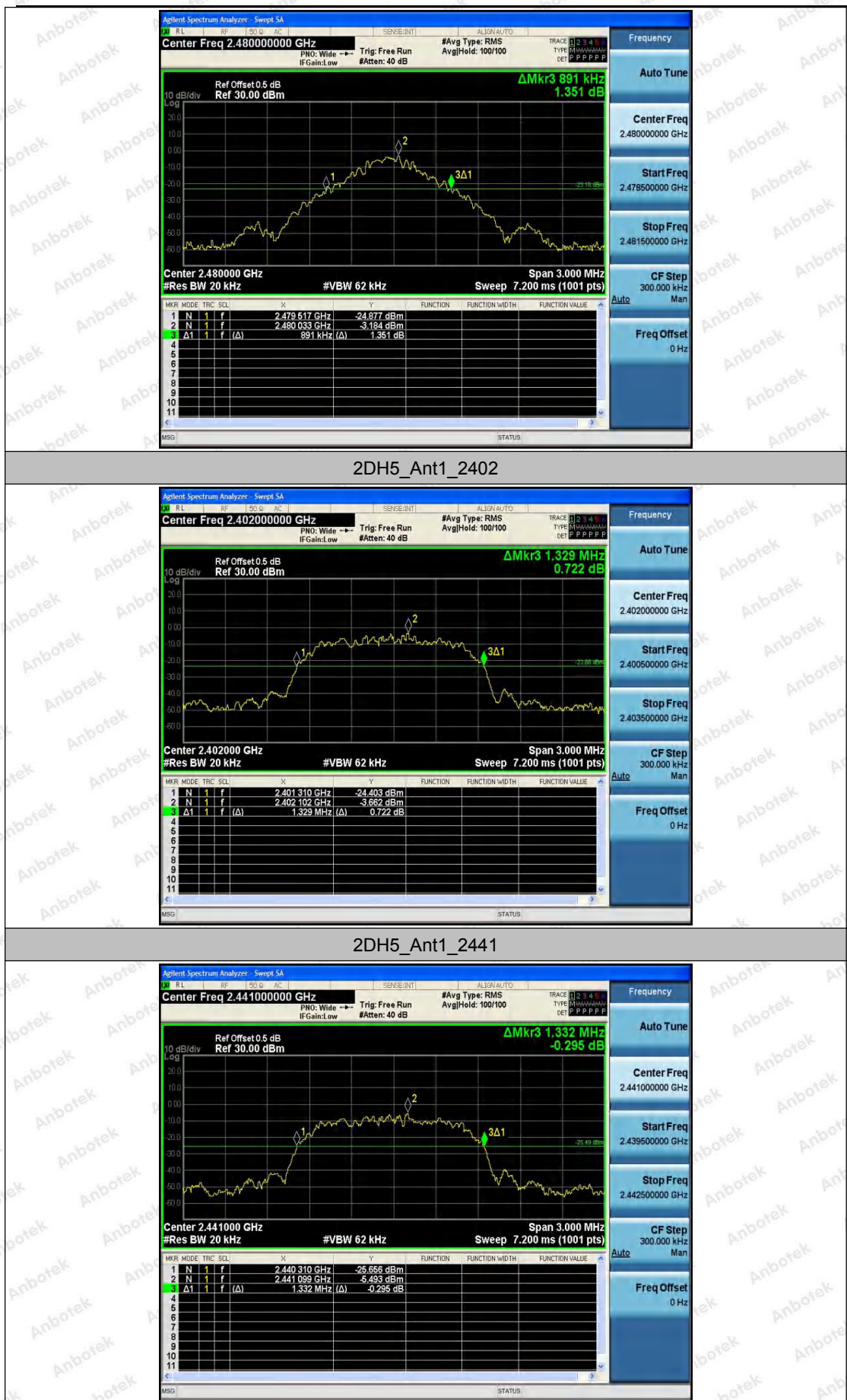


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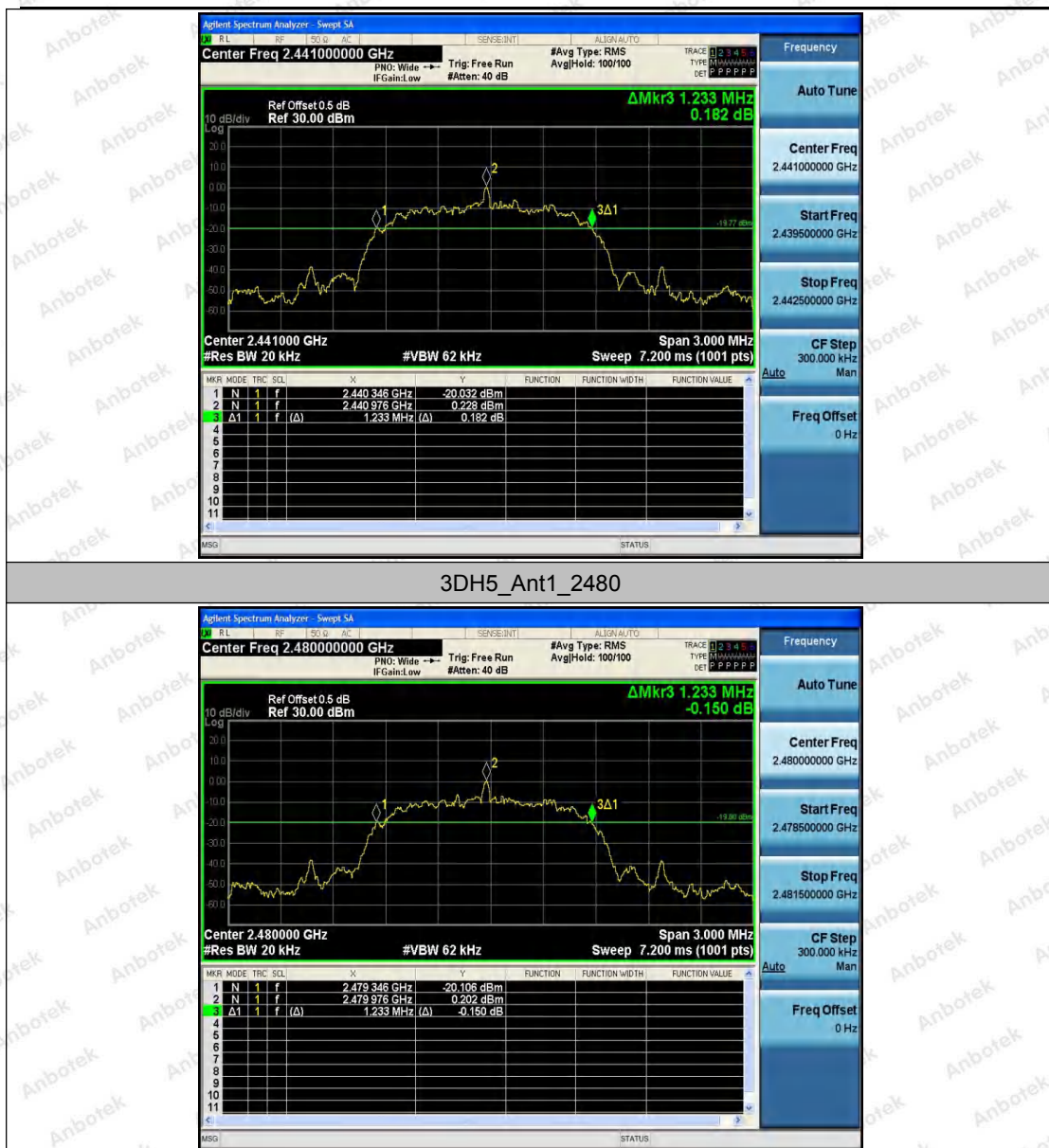
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83379	2401.55 8	2402.392	---	PASS
		2441	0.81471	2440.56 2	2441.377	---	PASS
		2480	0.82765	2479.55 7	2480.384	---	PASS
2DH5	Ant1	2402	1.1864	2401.38 3	2402.569	---	PASS
		2441	1.1786	2440.38 5	2441.564	---	PASS
		2480	1.1801	2479.38 4	2480.565	---	PASS
3DH5	Ant1	2402	1.1591	2401.39 9	2402.558	---	PASS
		2441	1.1694	2440.38 6	2441.556	---	PASS
		2480	1.1625	2479.39 1	2480.553	---	PASS

Test Graphs

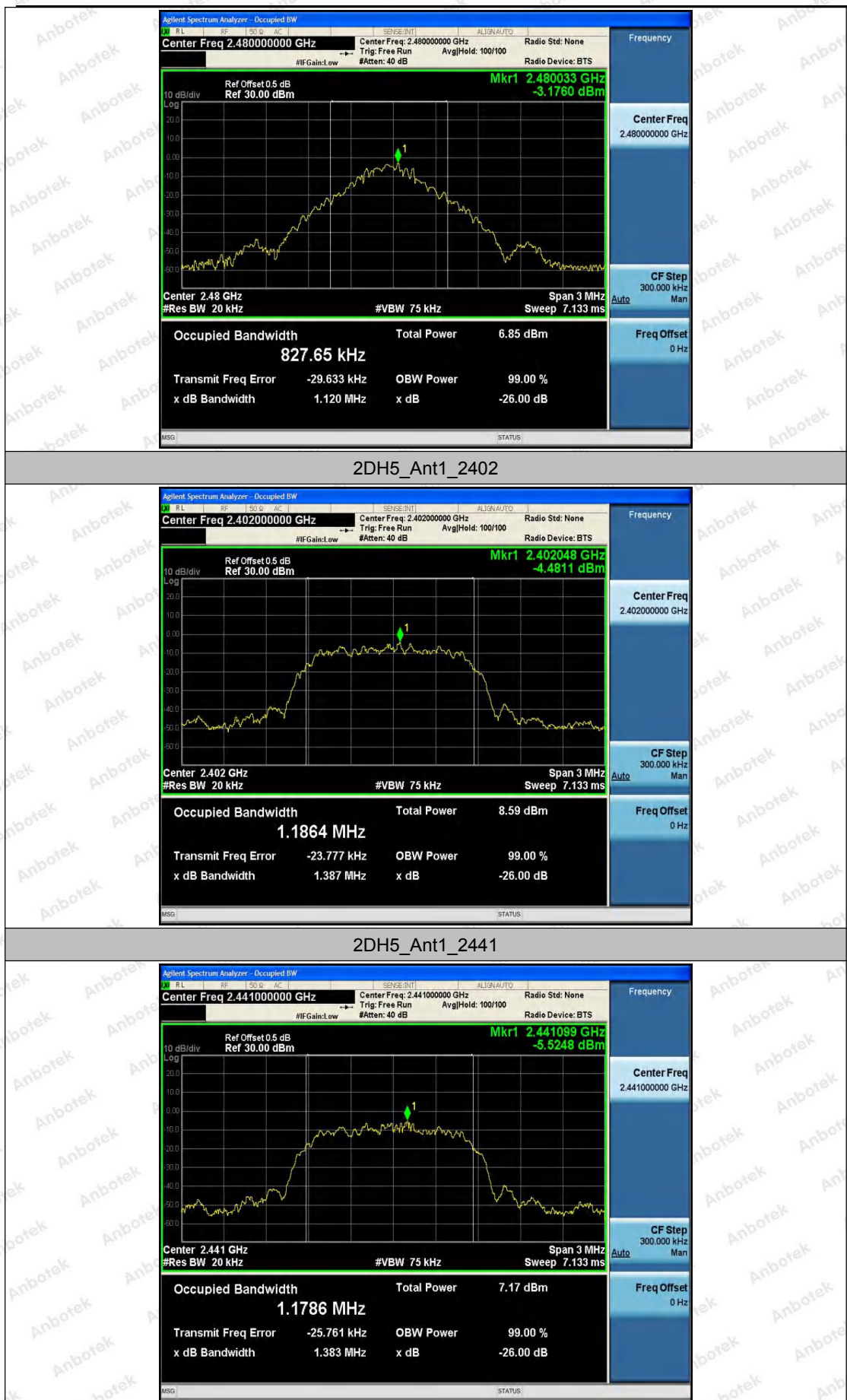


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

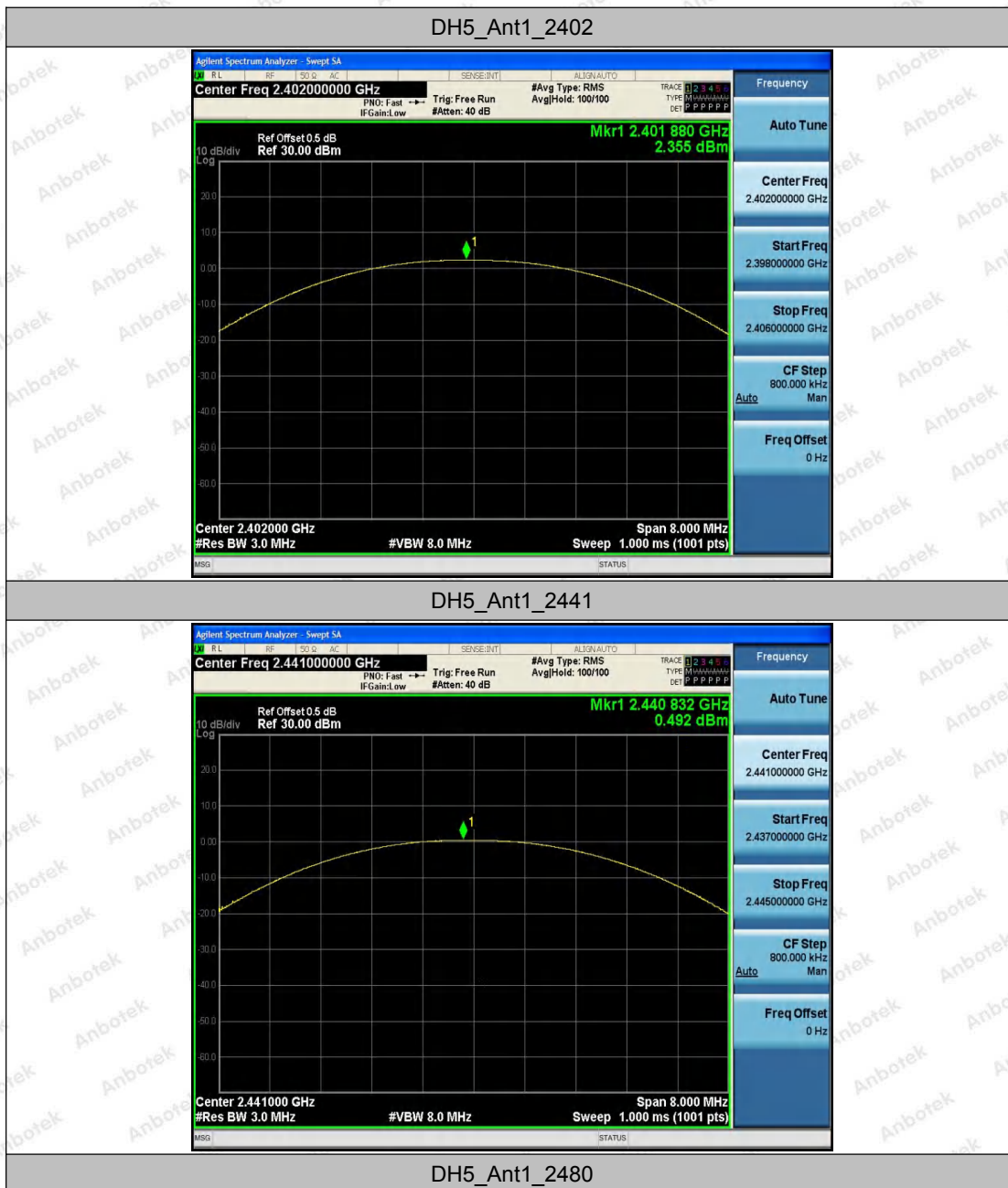


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.36	≤20.97	PASS
		2441	0.49	≤20.97	PASS
		2480	0.41	≤20.97	PASS
2DH5	Ant1	2402	4.74	≤20.97	PASS
		2441	2.87	≤20.97	PASS
		2480	2.72	≤20.97	PASS
3DH5	Ant1	2402	5.34	≤20.97	PASS
		2441	3.42	≤20.97	PASS
		2480	3.37	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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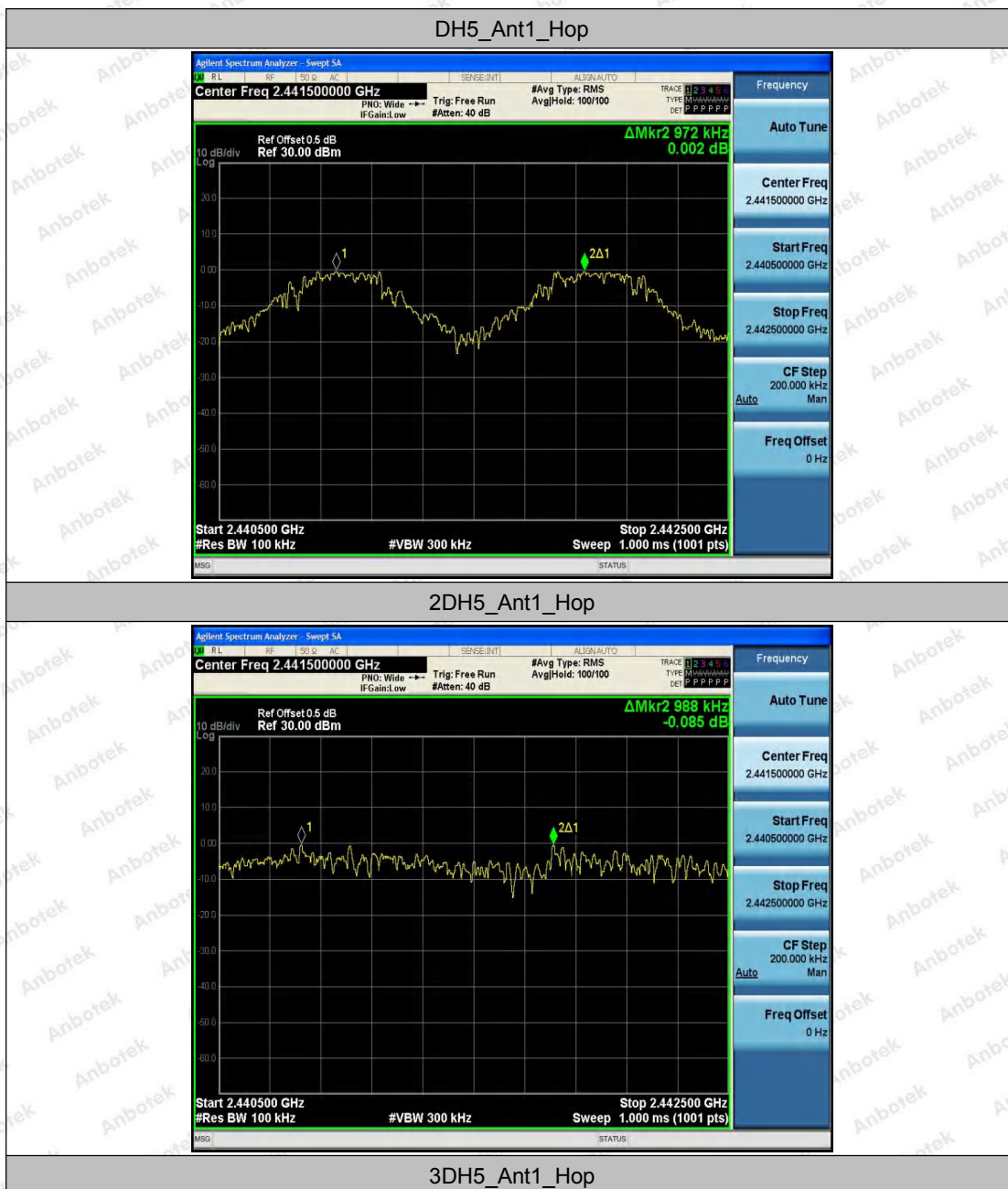
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.972	≥ 0.891	PASS
2DH5	Ant1	Hop	0.988	≥ 0.888	PASS
3DH5	Ant1	Hop	1	≥ 0.822	PASS

Test Graphs

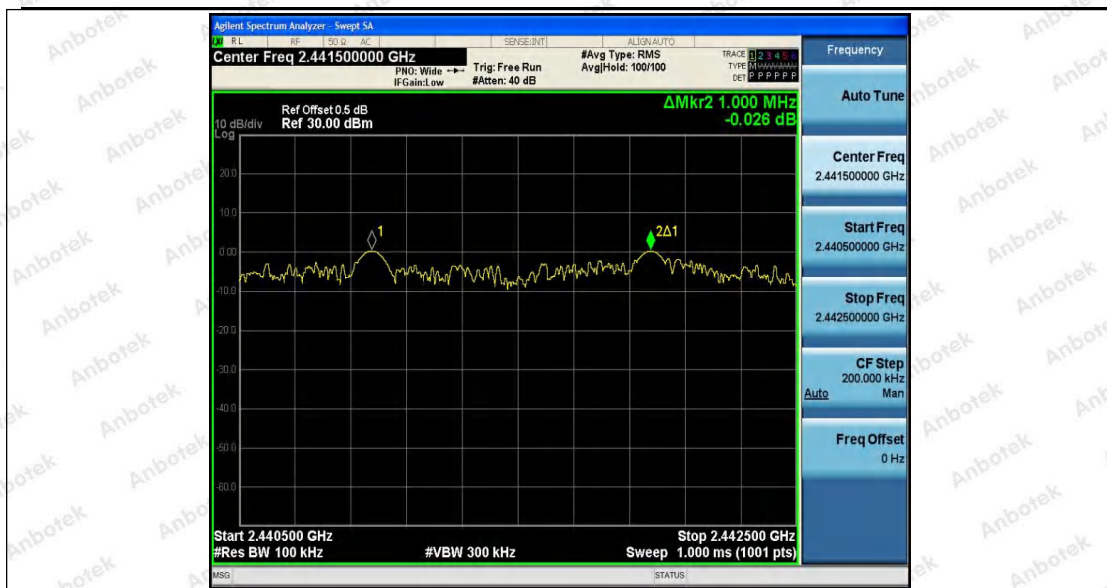


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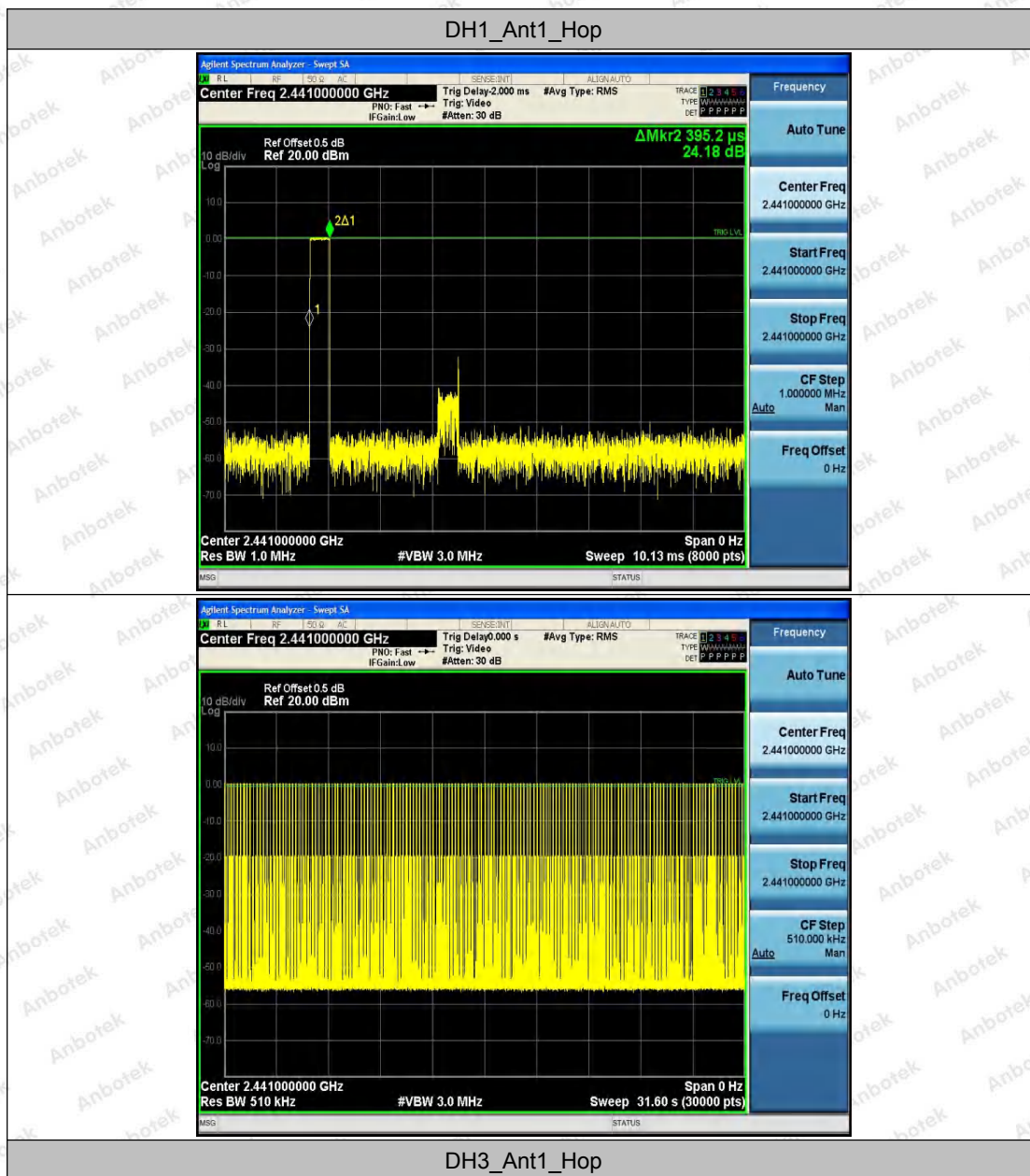
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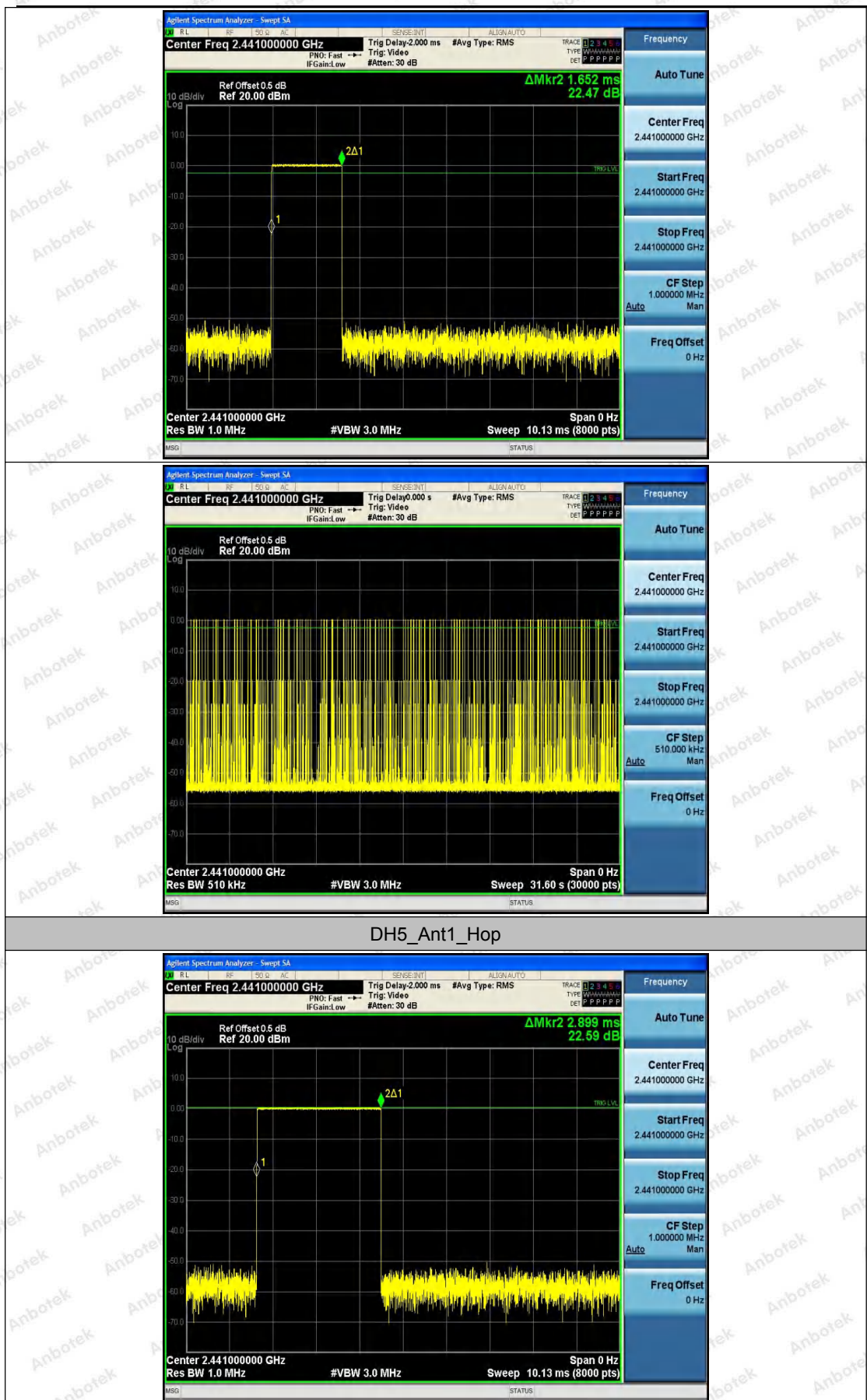
Appendix E: Time of occupancy

Test Result

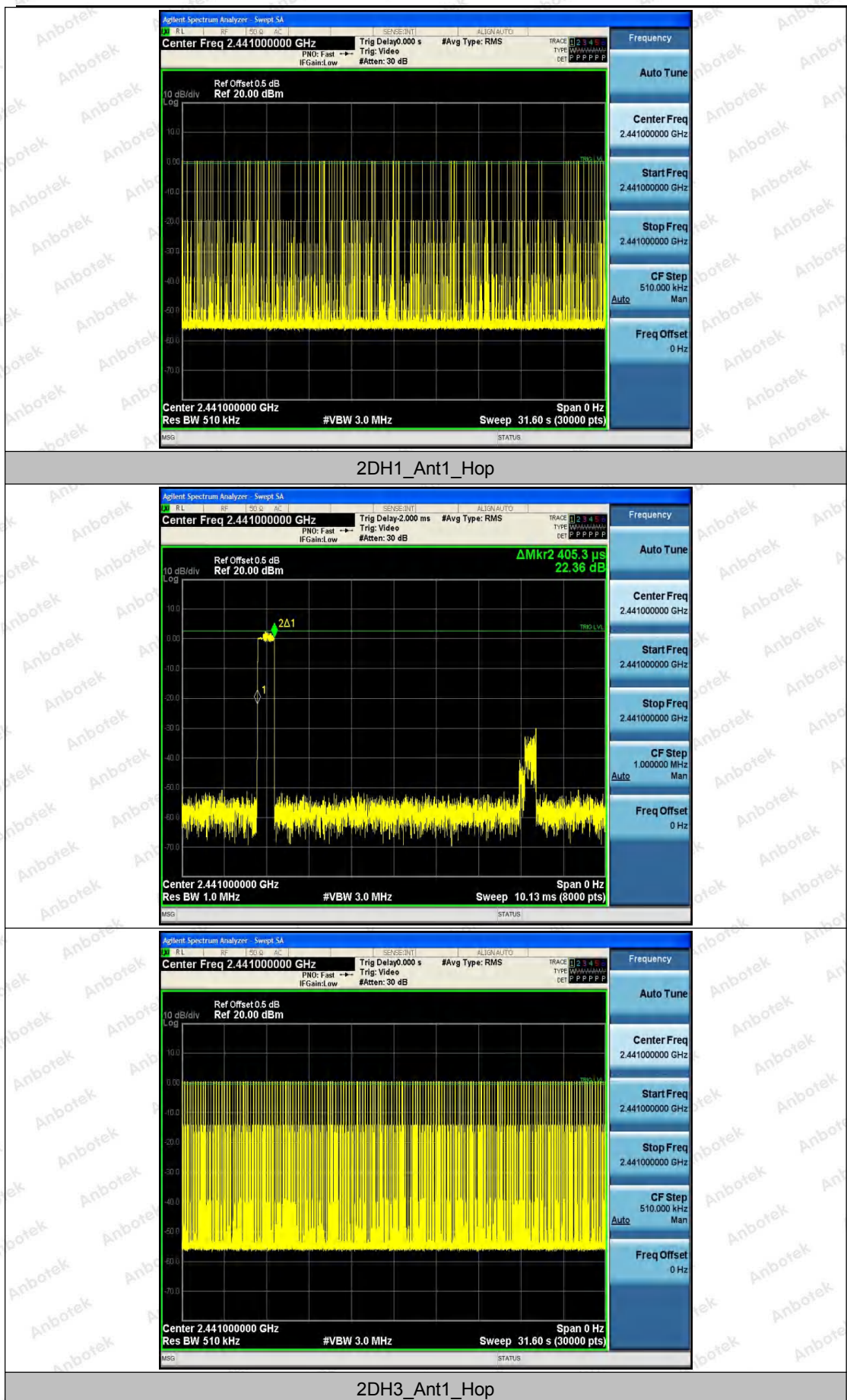
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	319	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.65	162	0.268	≤0.4	PASS
DH5	Ant1	Hop	2.90	107	0.31	≤0.4	PASS
2DH1	Ant1	Hop	0.41	319	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.66	162	0.268	≤0.4	PASS
2DH5	Ant1	Hop	2.90	108	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.41	318	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.66	160	0.265	≤0.4	PASS
3DH5	Ant1	Hop	2.91	97	0.282	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

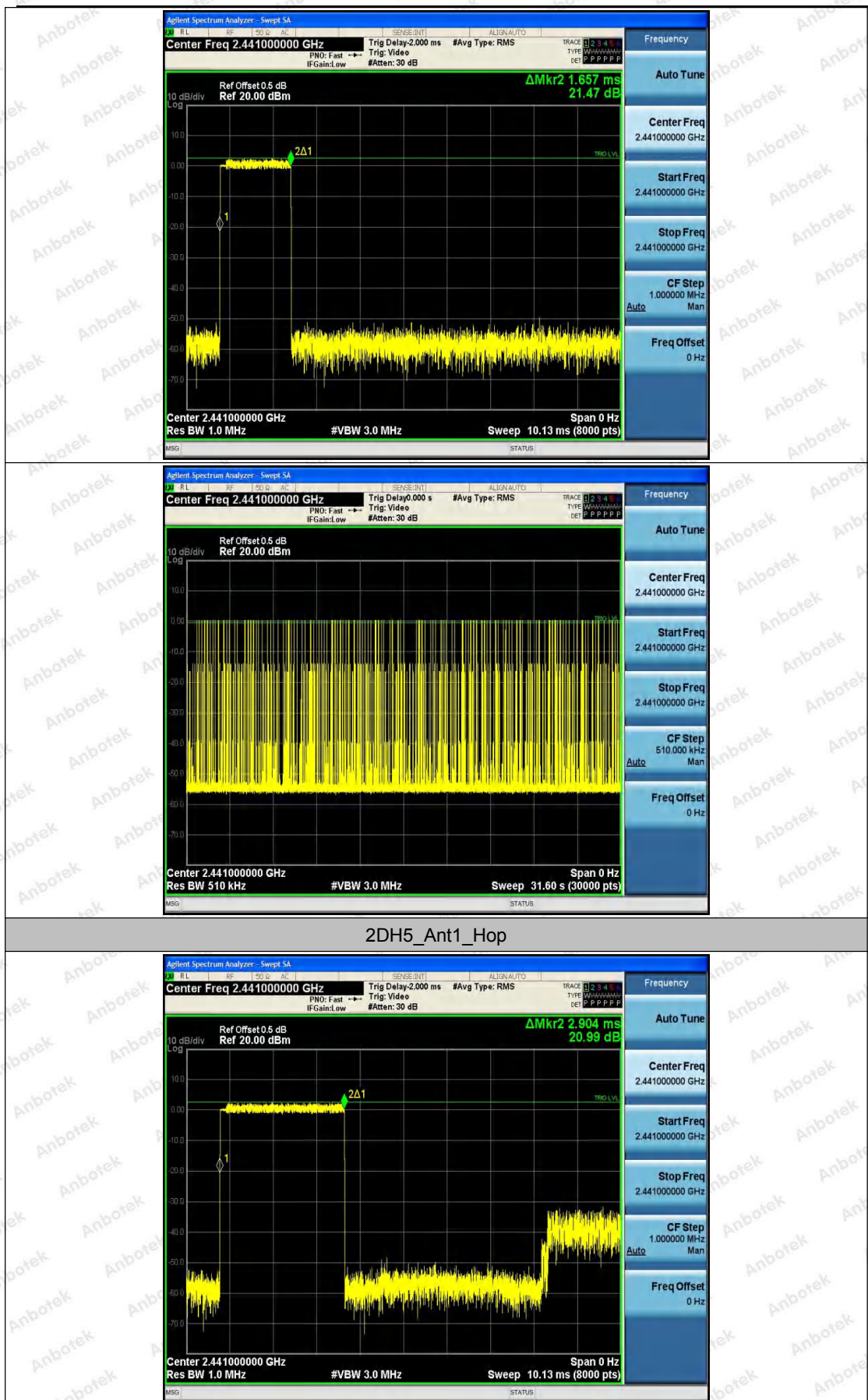


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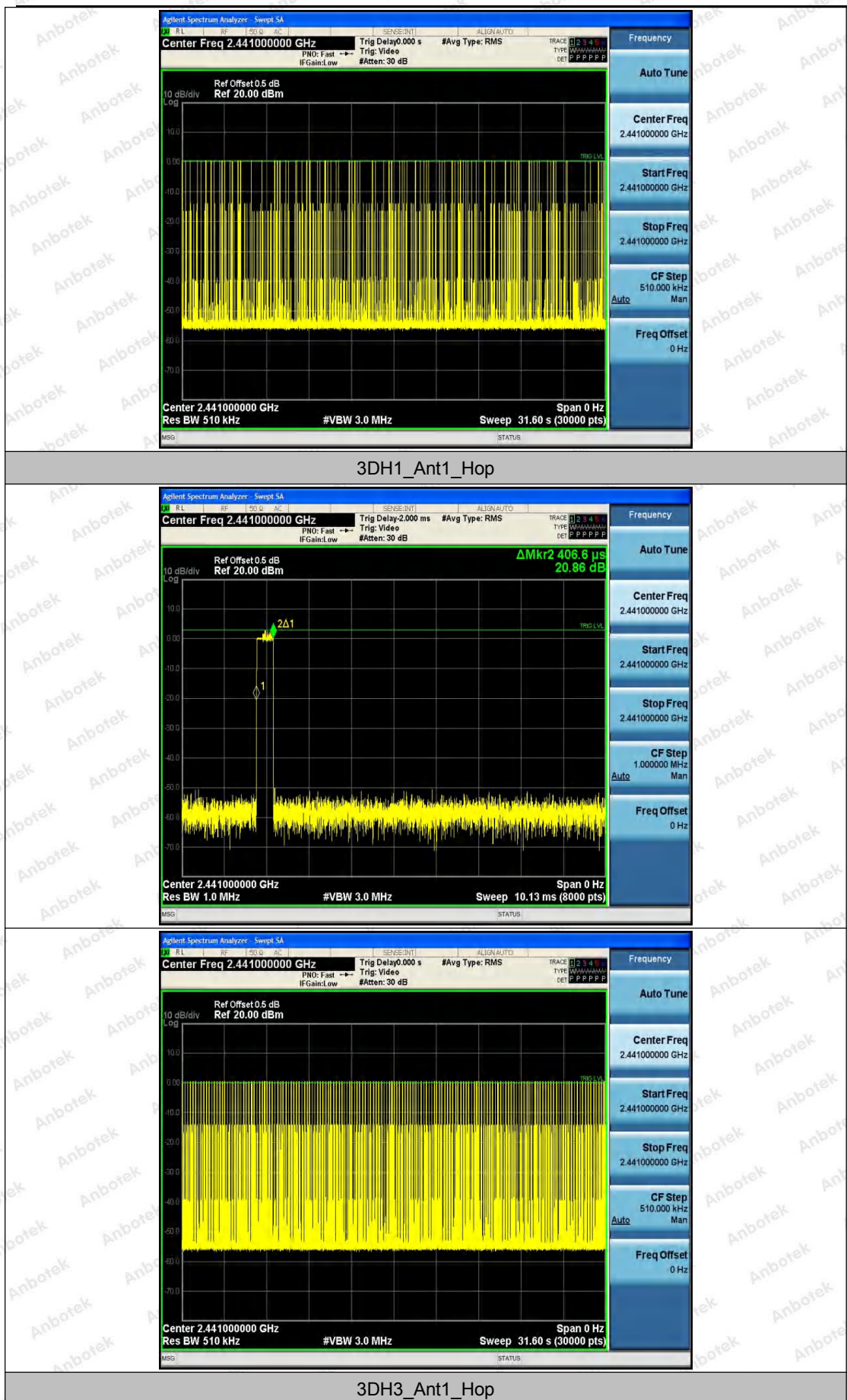


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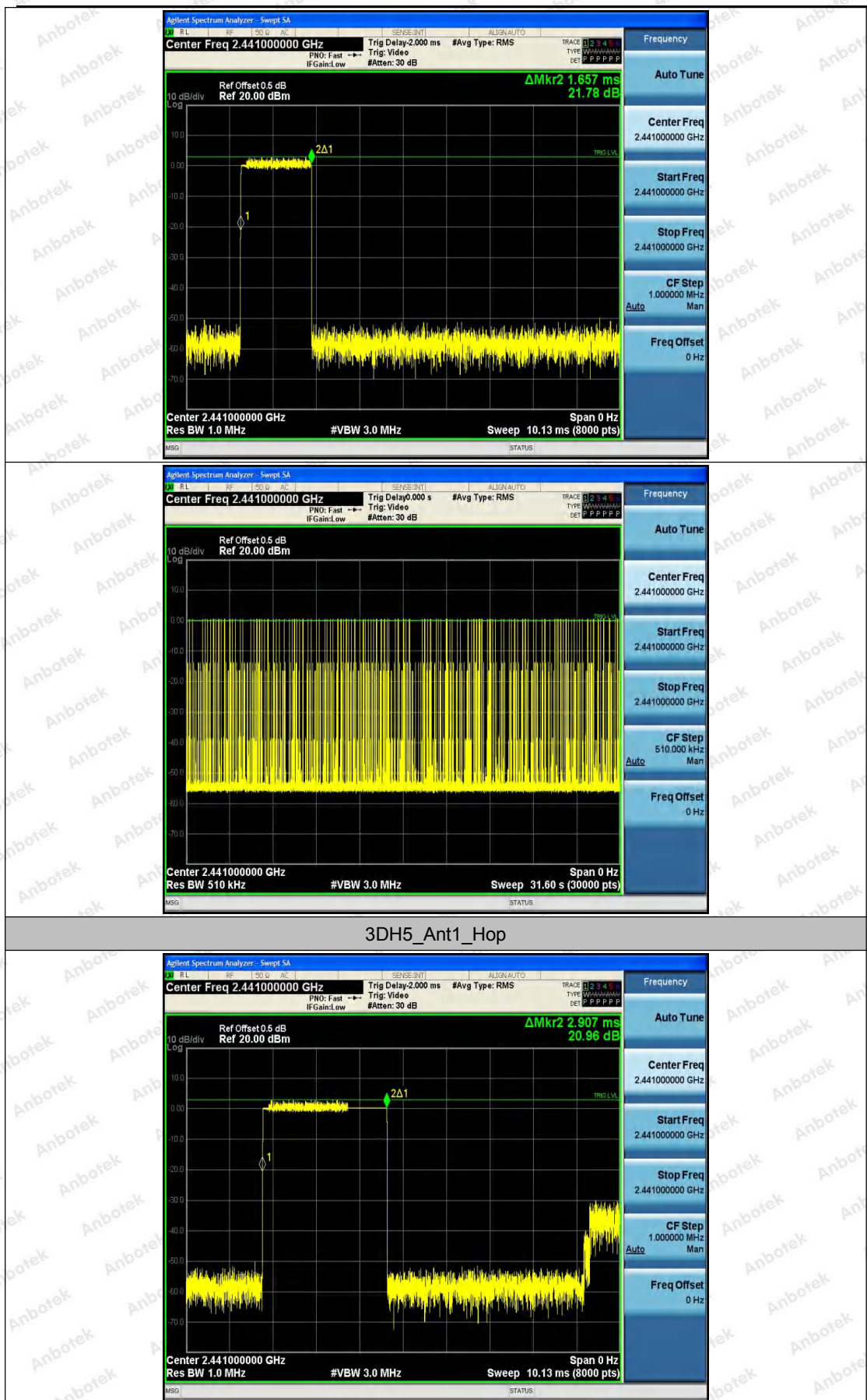


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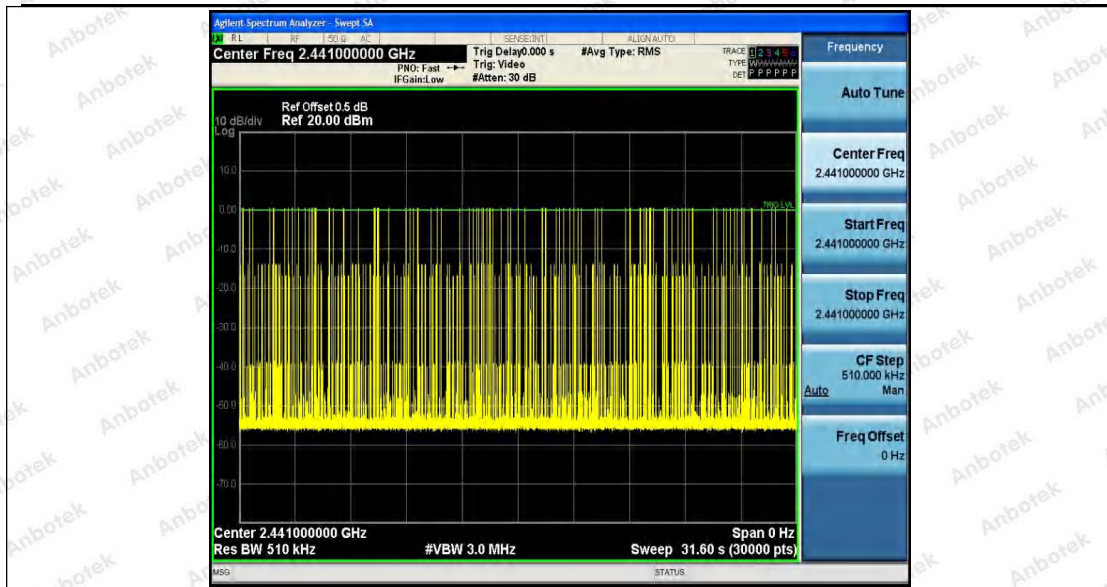
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3DH5_Ant1_Hop



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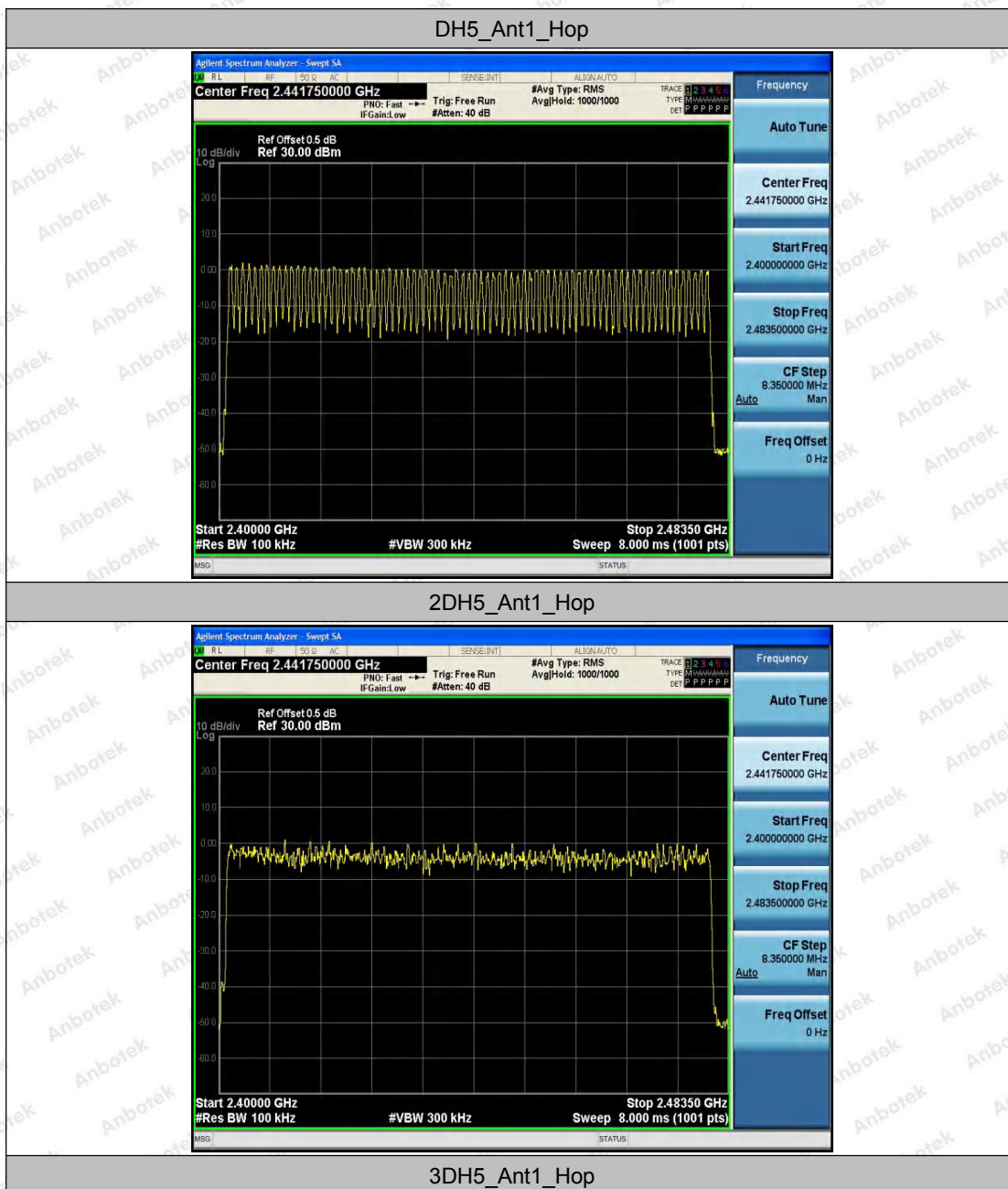
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Appendix F: Number of hopping channels

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

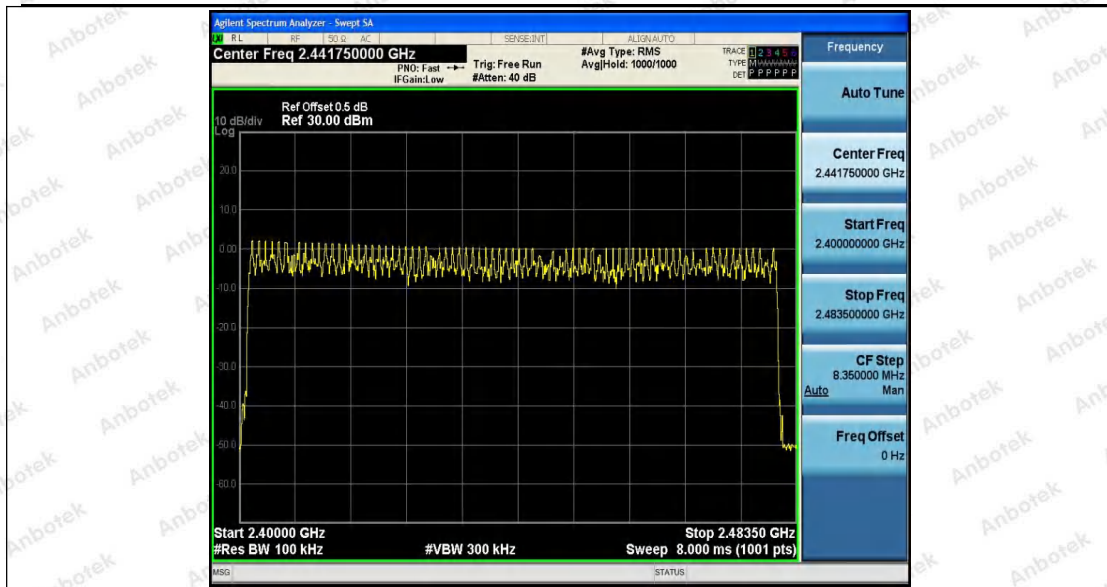


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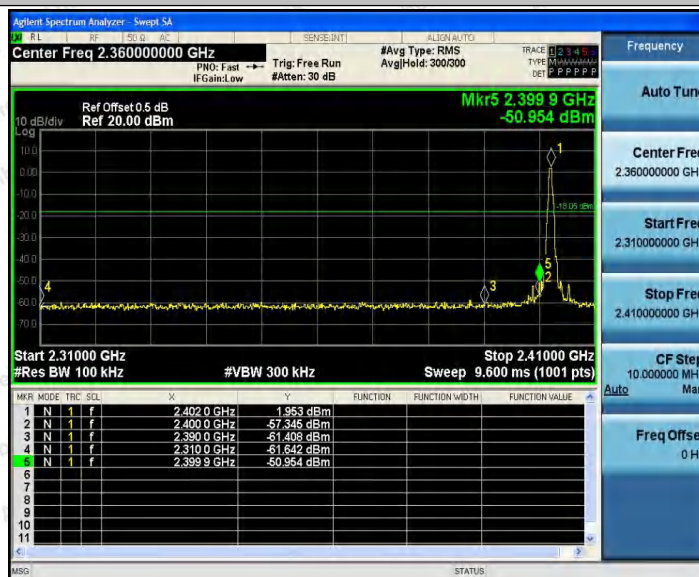
Appendix G: Band edge measurements

Test Result

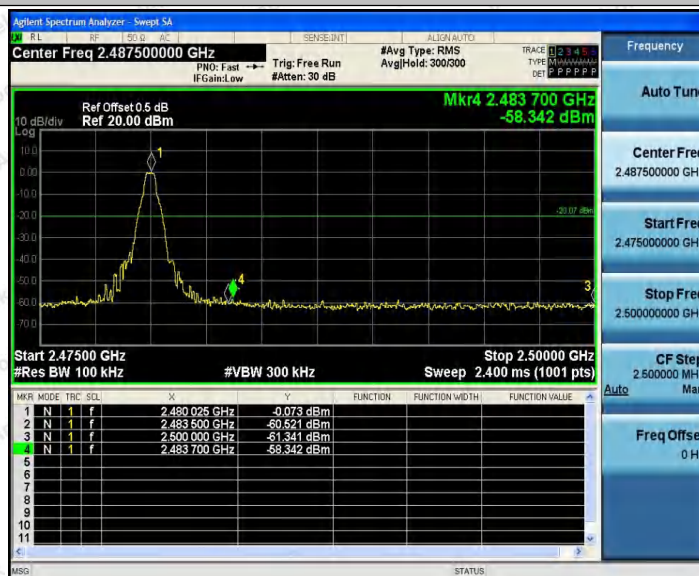
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.95	-50.95	≤-18.05	PASS
		High	2480	-0.07	-58.34	≤-20.07	PASS
		Low	Hop	1.37	-58.71	≤-18.63	PASS
		High	Hop	-0.35	-61.02	≤-20.35	PASS
2DH5	Ant1	Low	2402	1.65	-54.25	≤-18.35	PASS
		High	2480	-0.08	-58.38	≤-20.08	PASS
		Low	Hop	-0.77	-59.15	≤-20.77	PASS
		High	Hop	-0.07	-60.54	≤-20.07	PASS
3DH5	Ant1	Low	2402	2.21	-48.93	≤-17.79	PASS
		High	2480	0.24	-58.53	≤-19.76	PASS
		Low	Hop	2.14	-58.08	≤-17.86	PASS
		High	Hop	0.29	-60.05	≤-19.71	PASS

Test Graphs

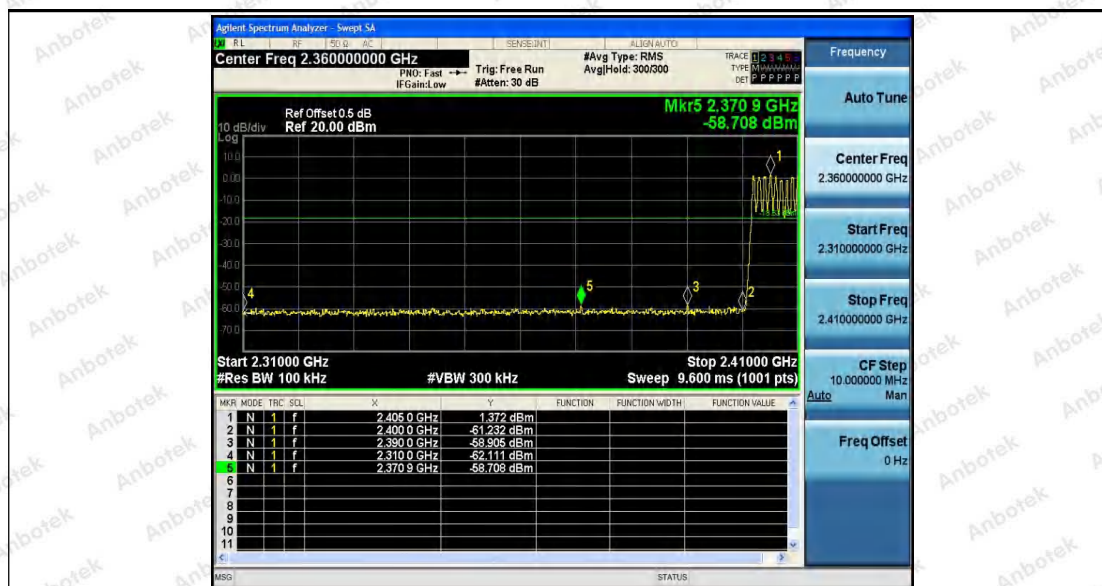
DH5_Ant1_Low_2402



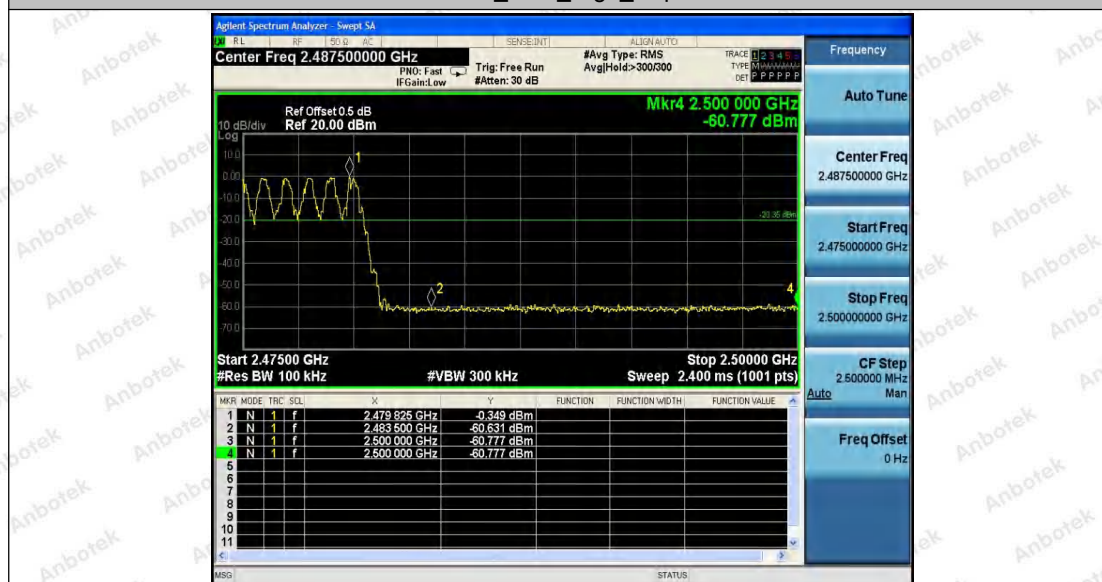
DH5_Ant1_High_2480



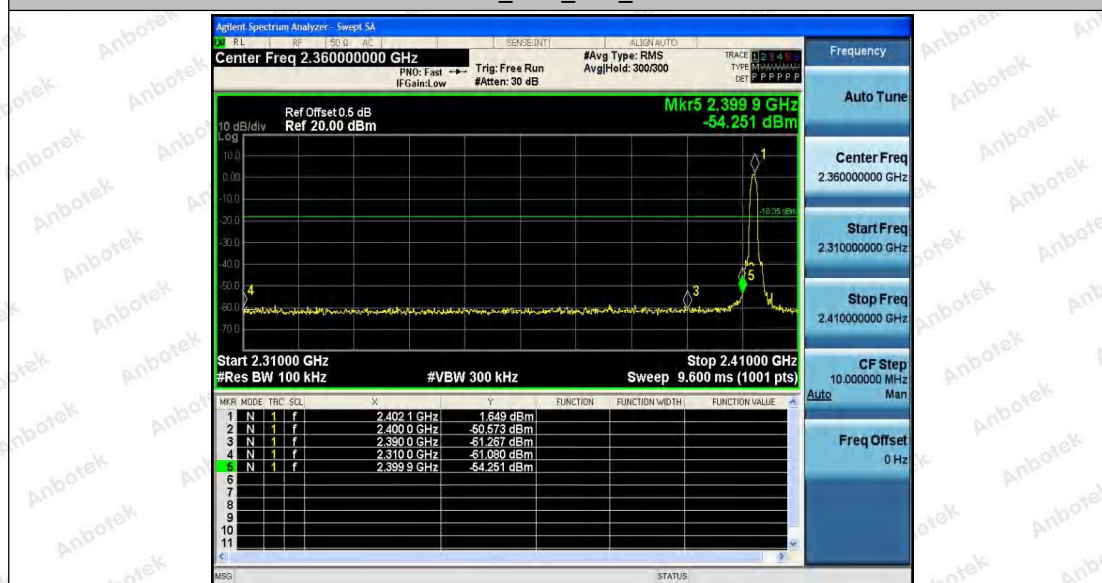
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



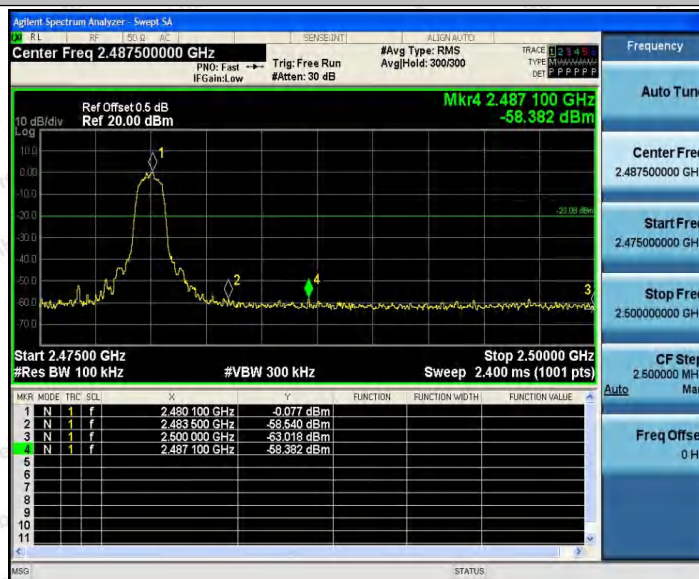
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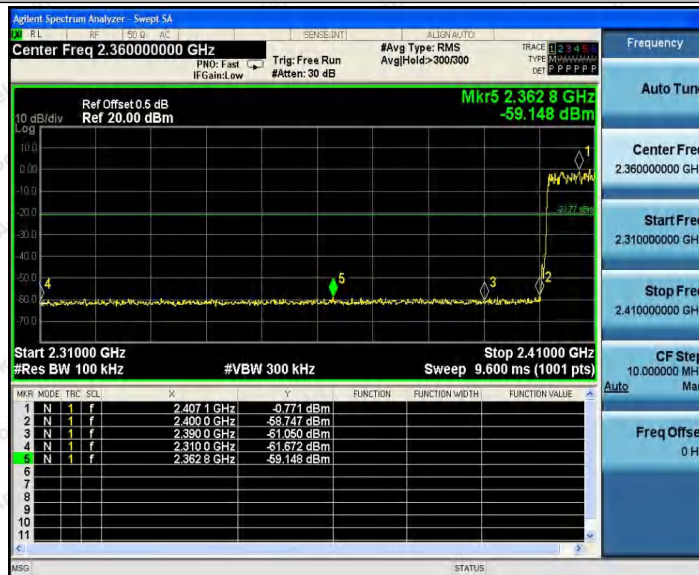
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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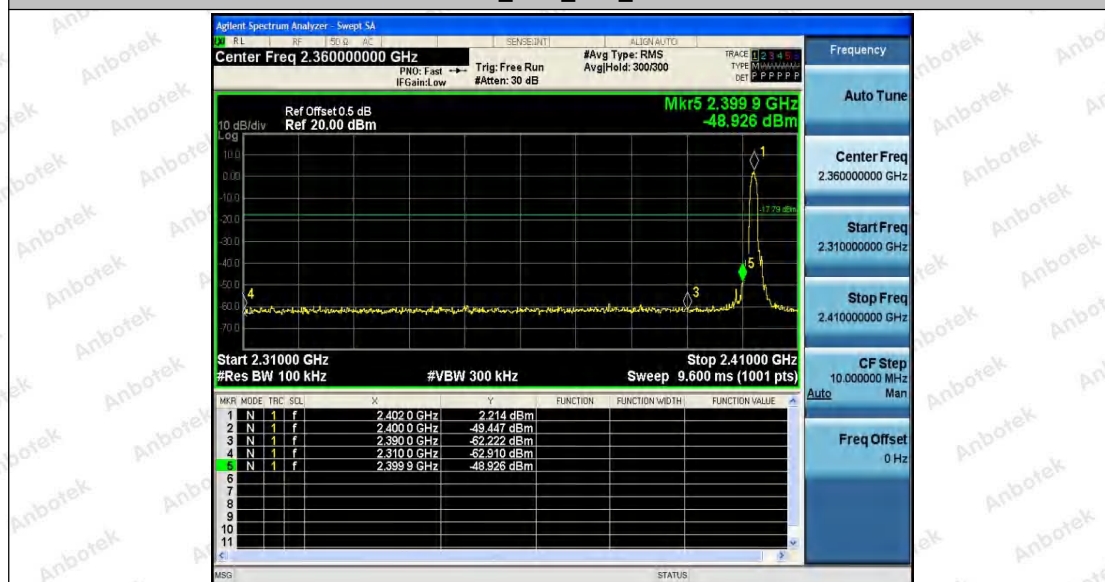
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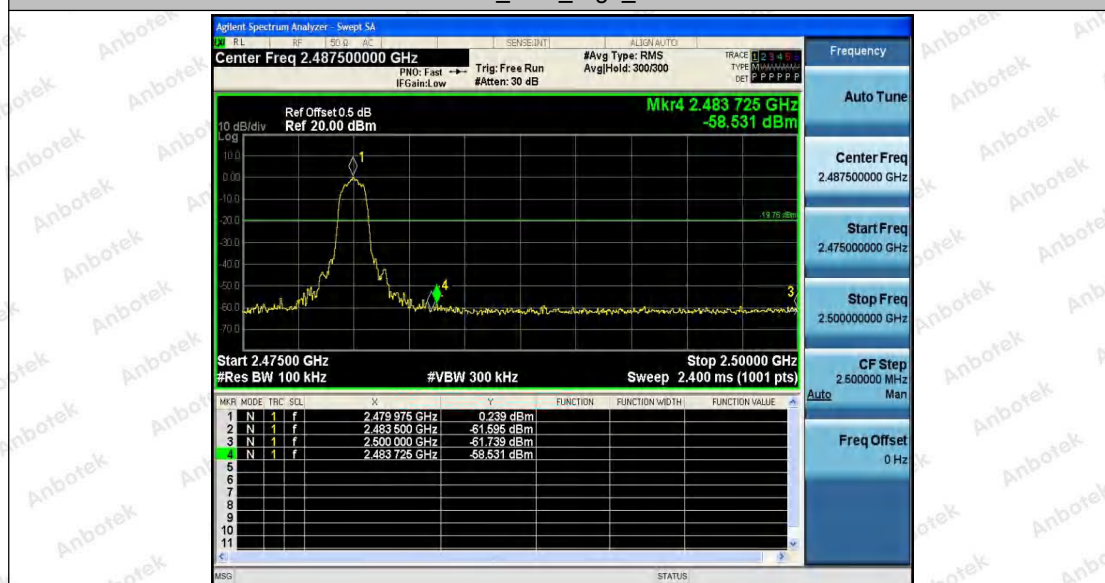
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

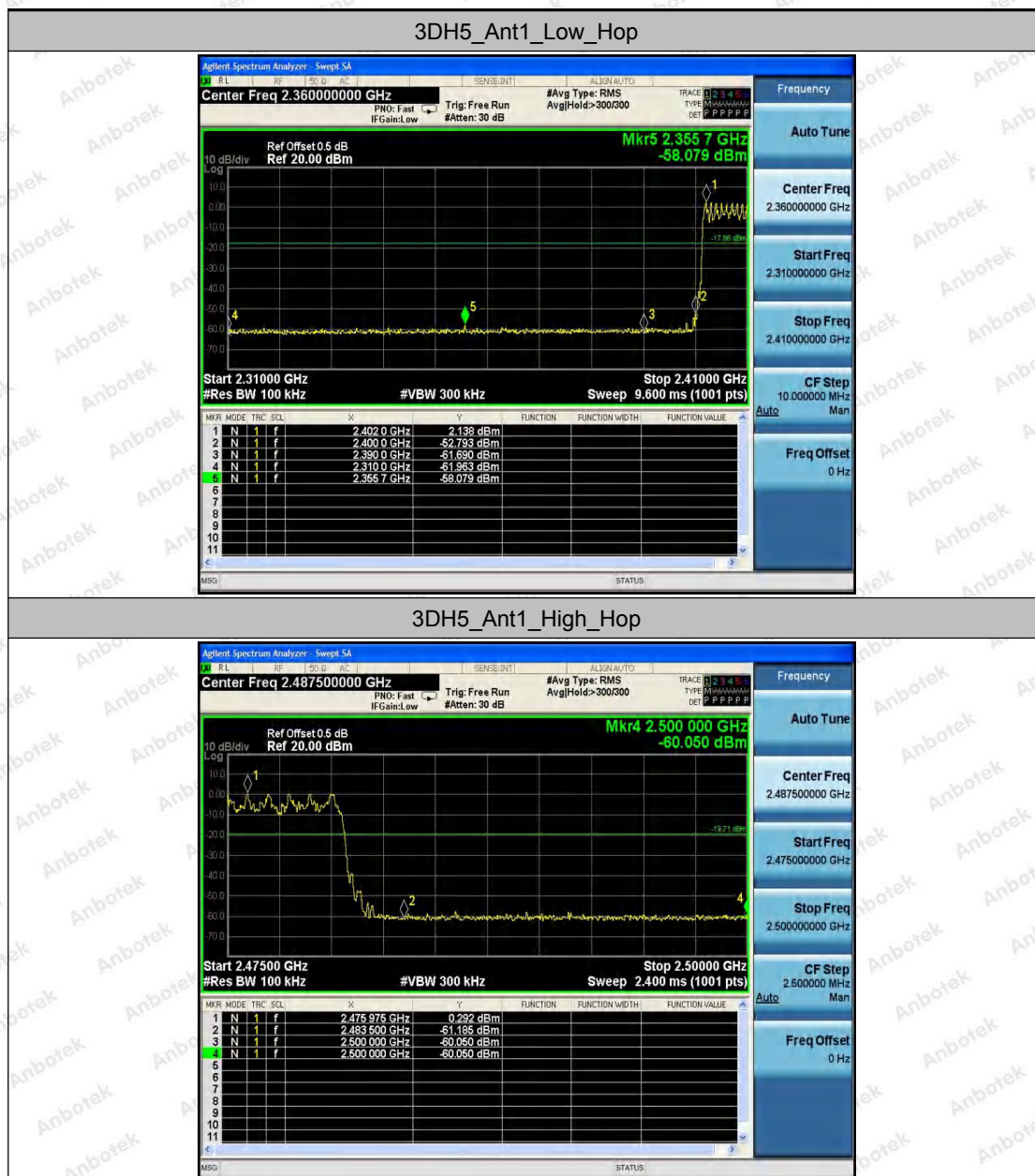


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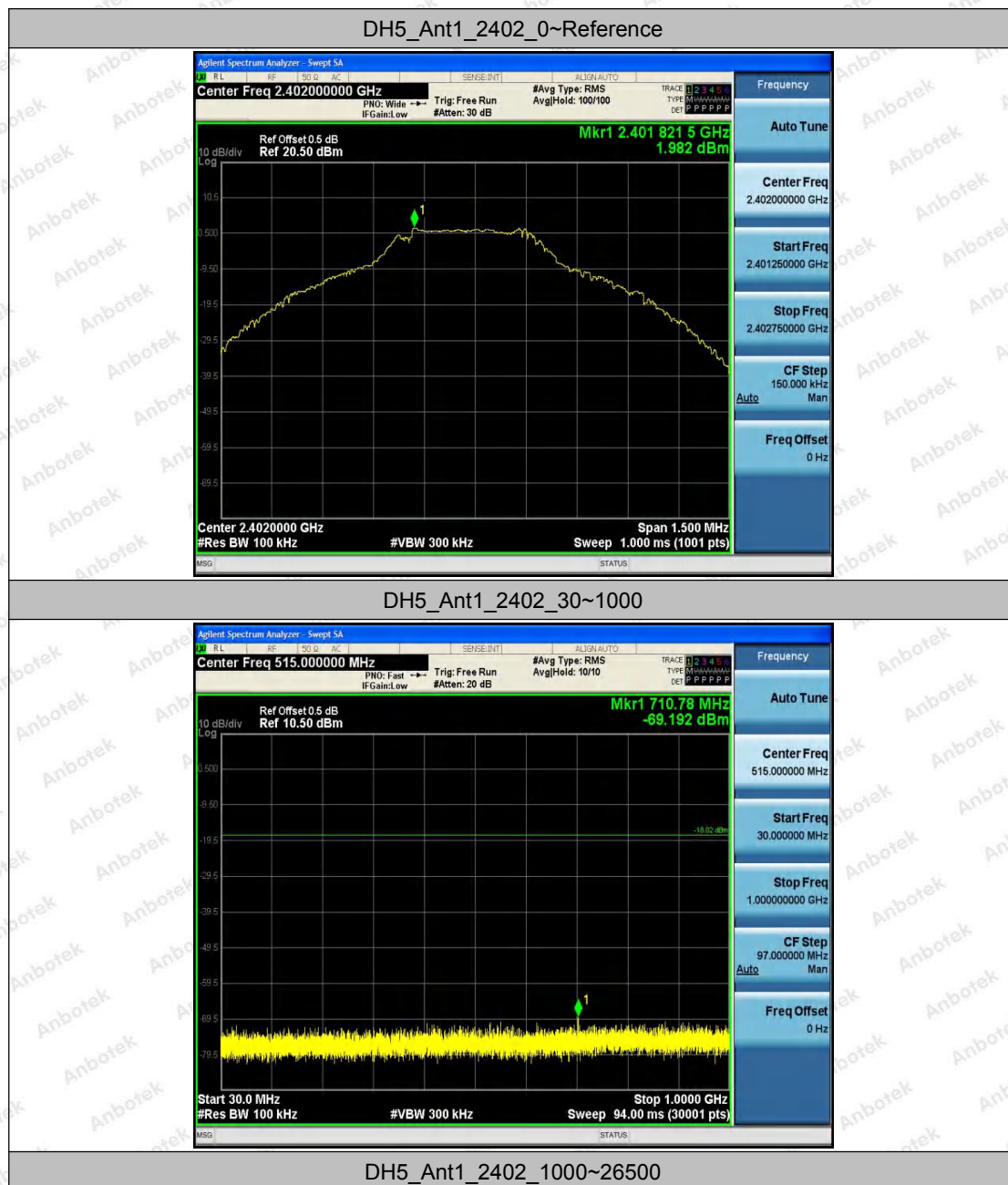
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-69.19	≤-18.02	PASS
			1000~26500	1.98	-51.96	≤-18.02	PASS
		2441	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-69.42	≤-19.95	PASS
			1000~26500	0.05	-53.31	≤-19.95	PASS
		2480	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-68.25	≤-20.35	PASS
			1000~26500	-0.35	-54.77	≤-20.35	PASS
2DH5	Ant1	2402	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-70.06	≤-18.19	PASS
			1000~26500	1.81	-53.28	≤-18.19	PASS
		2441	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-70.22	≤-20.02	PASS
			1000~26500	-0.02	-53.39	≤-20.02	PASS
		2480	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-69.62	≤-20.45	PASS
			1000~26500	-0.45	-54.59	≤-20.45	PASS
3DH5	Ant1	2402	Reference	2.16	2.16	---	PASS
			30~1000	2.16	-69.23	≤-17.84	PASS
			1000~26500	2.16	-49.54	≤-17.84	PASS
		2441	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-69.55	≤-19.79	PASS
			1000~26500	0.22	-49.69	≤-19.79	PASS
		2480	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-69.32	≤-19.78	PASS
			1000~26500	0.22	-52.23	≤-19.78	PASS

Test Graphs

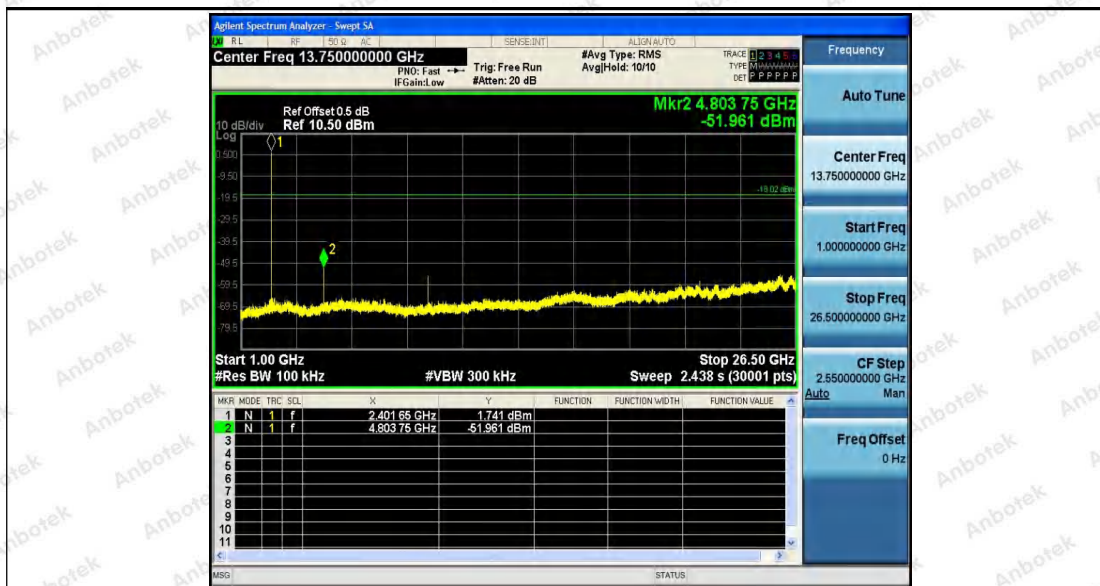


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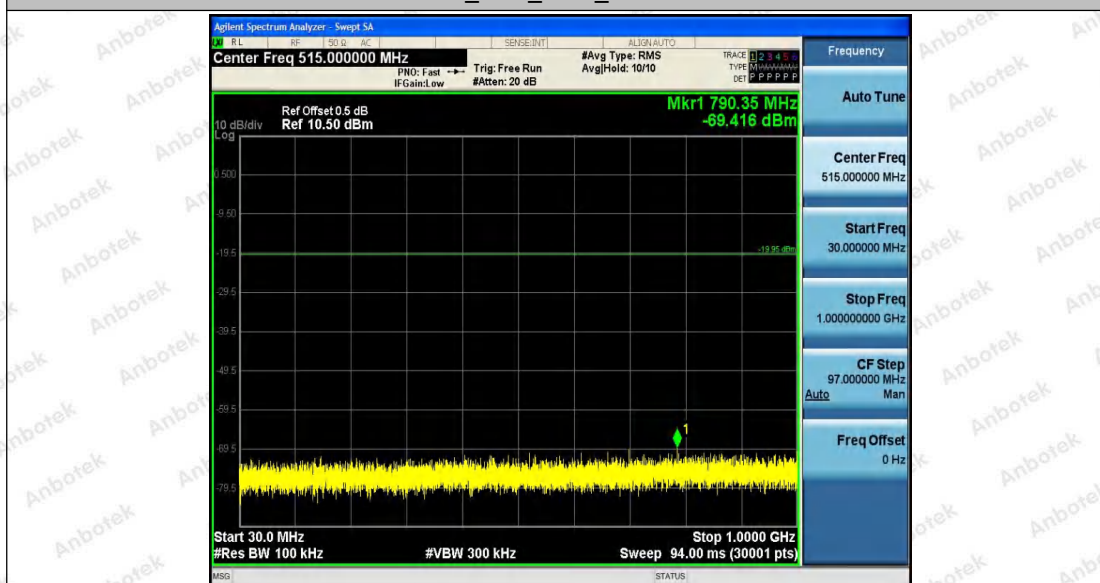
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



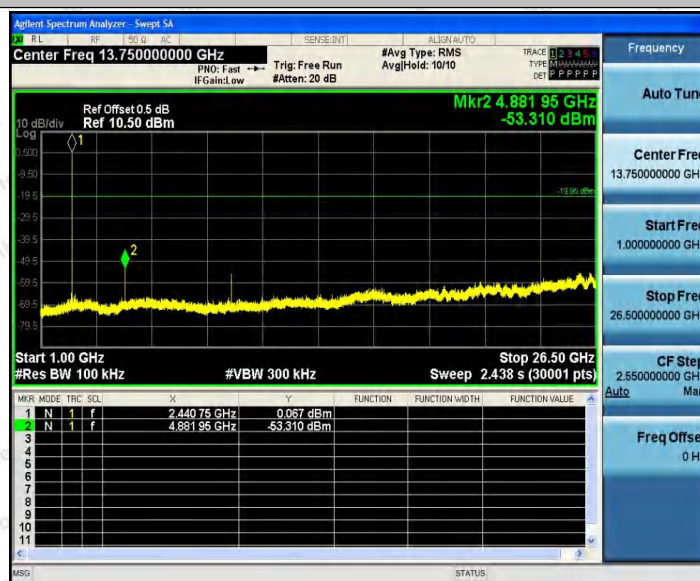
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



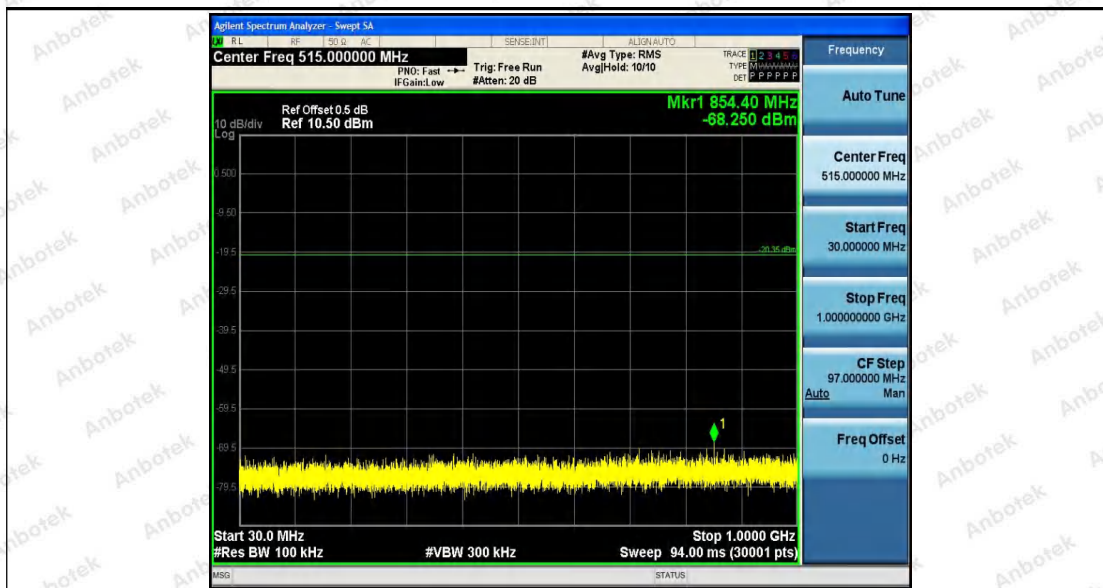
DH5_Ant1_2480_30~1000

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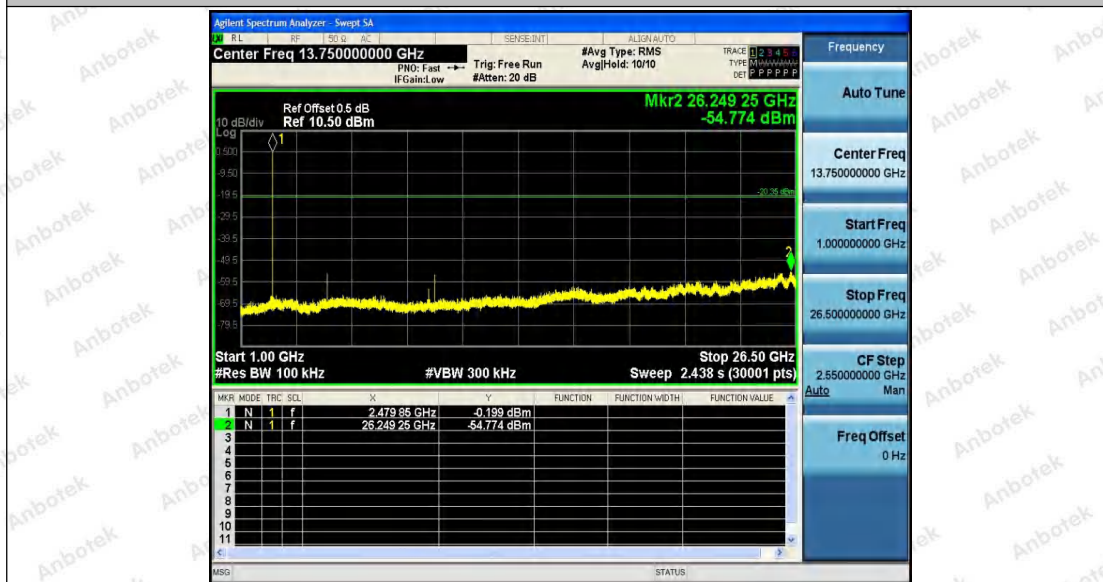
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

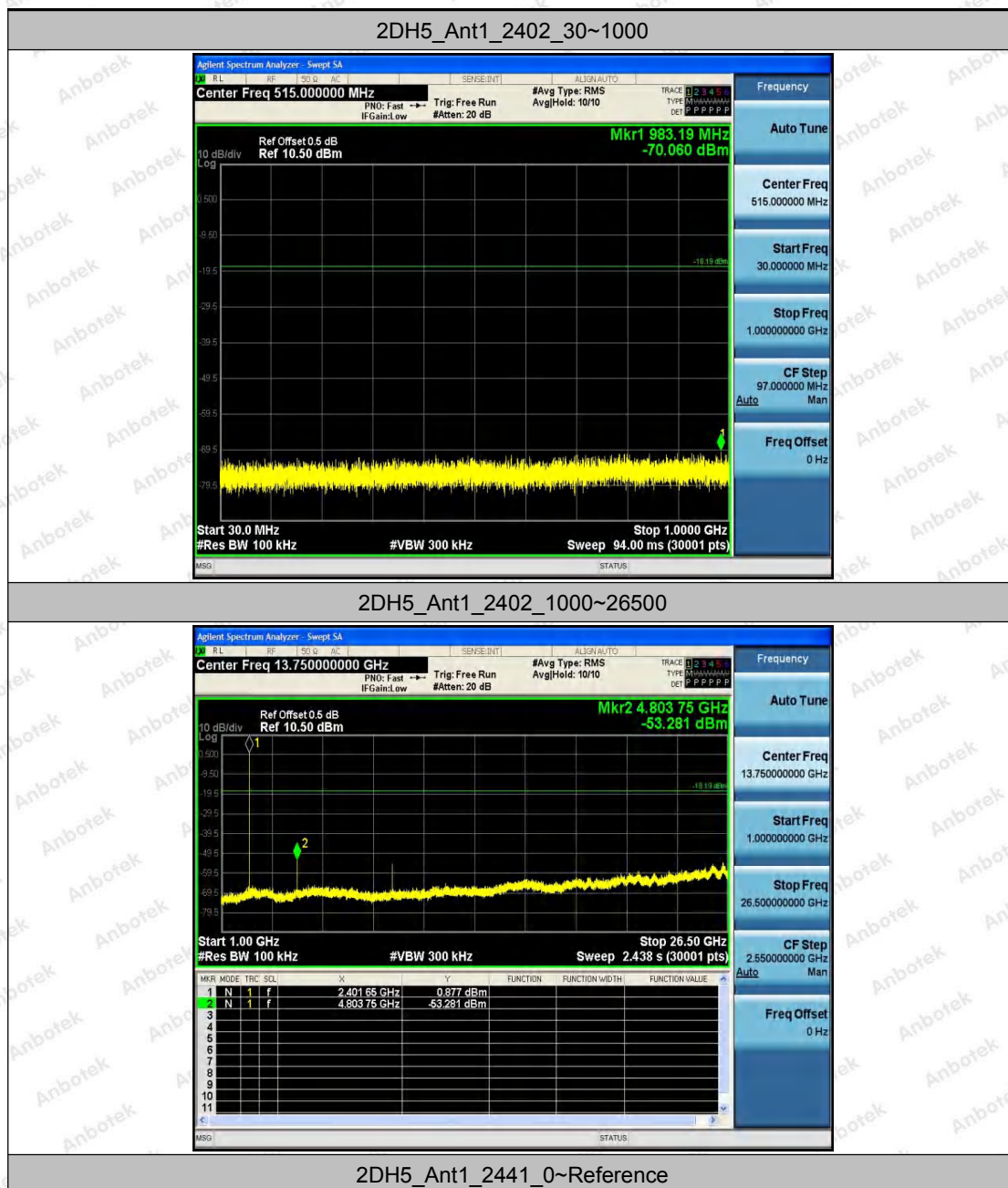


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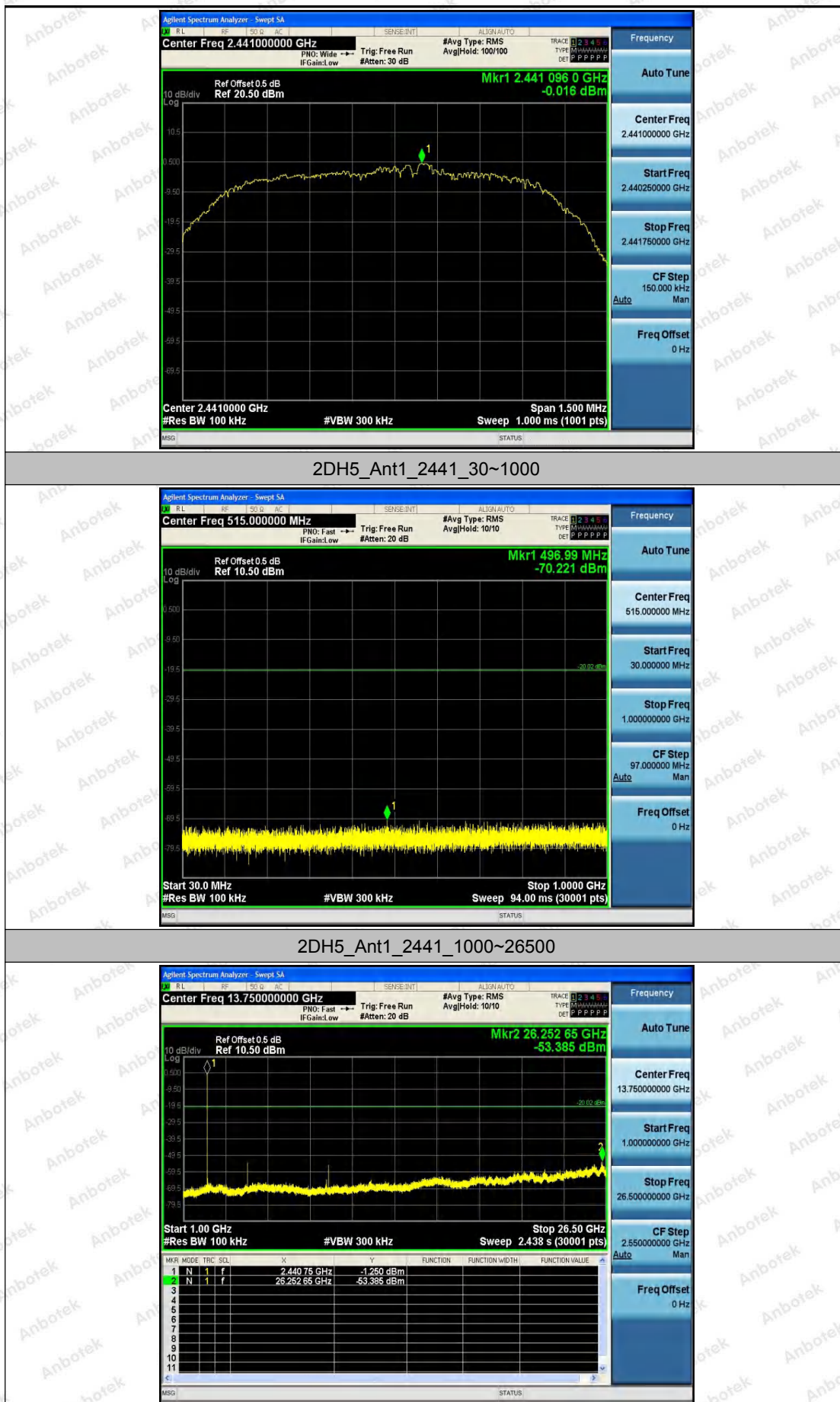


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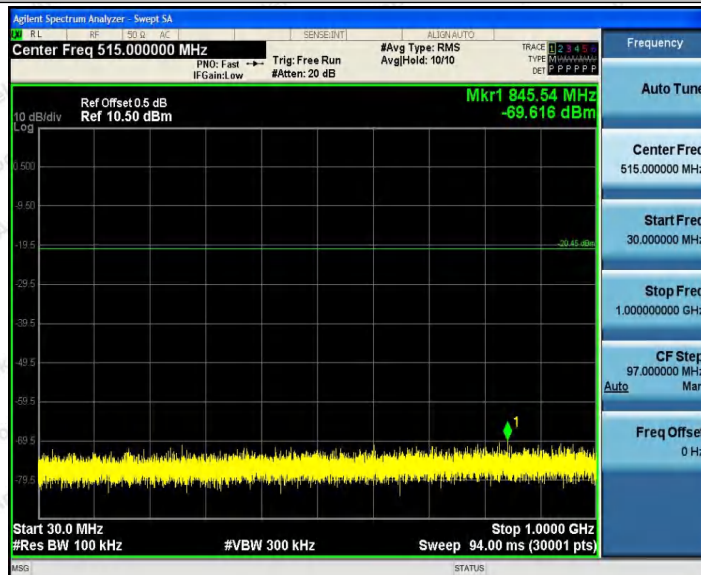
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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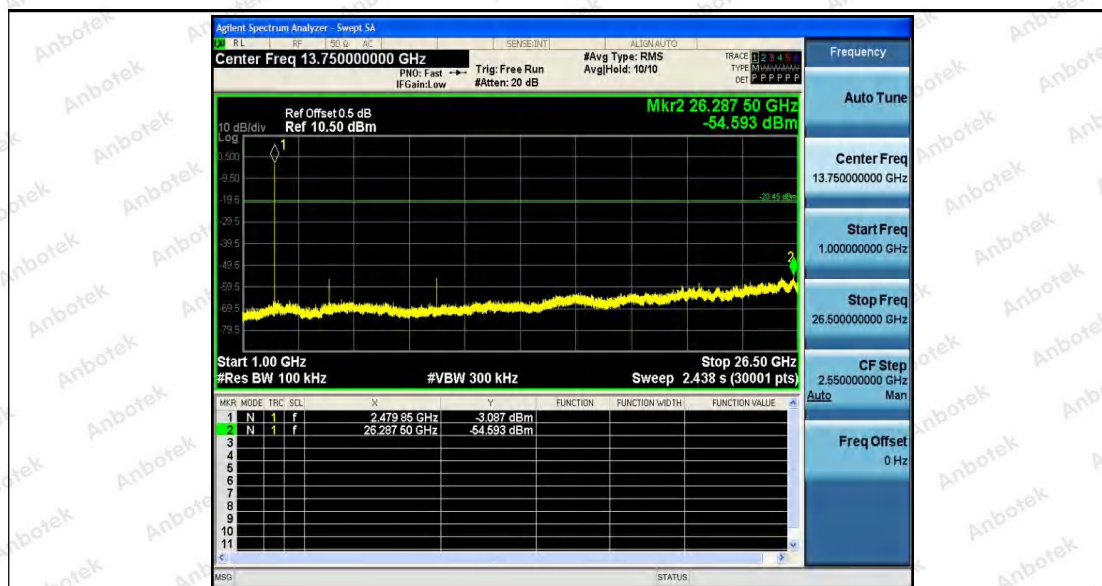
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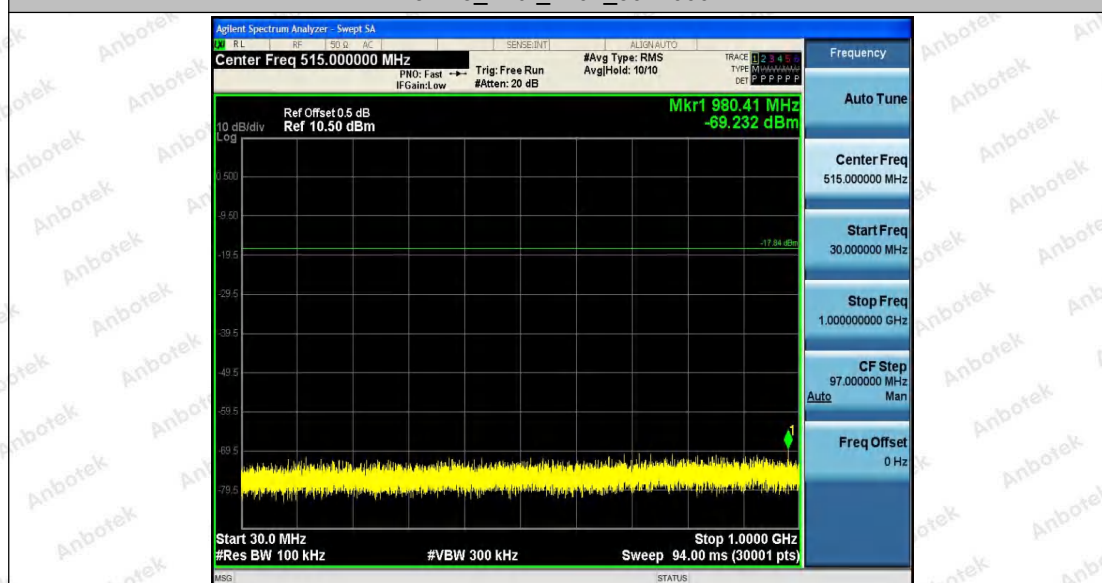
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



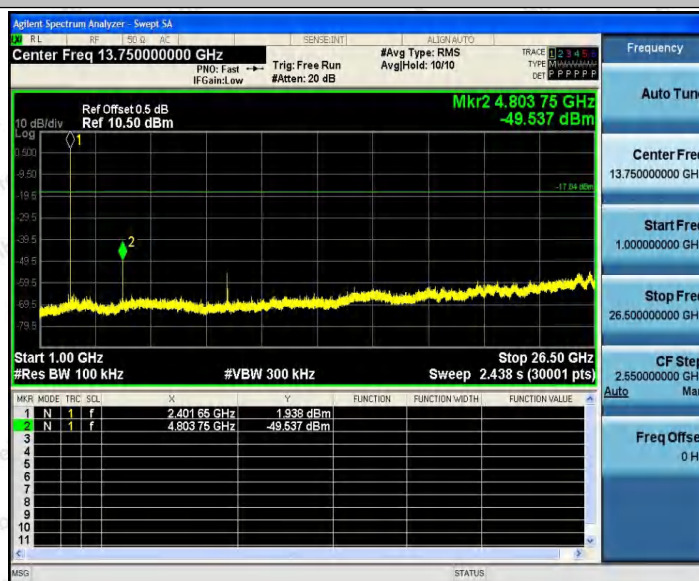
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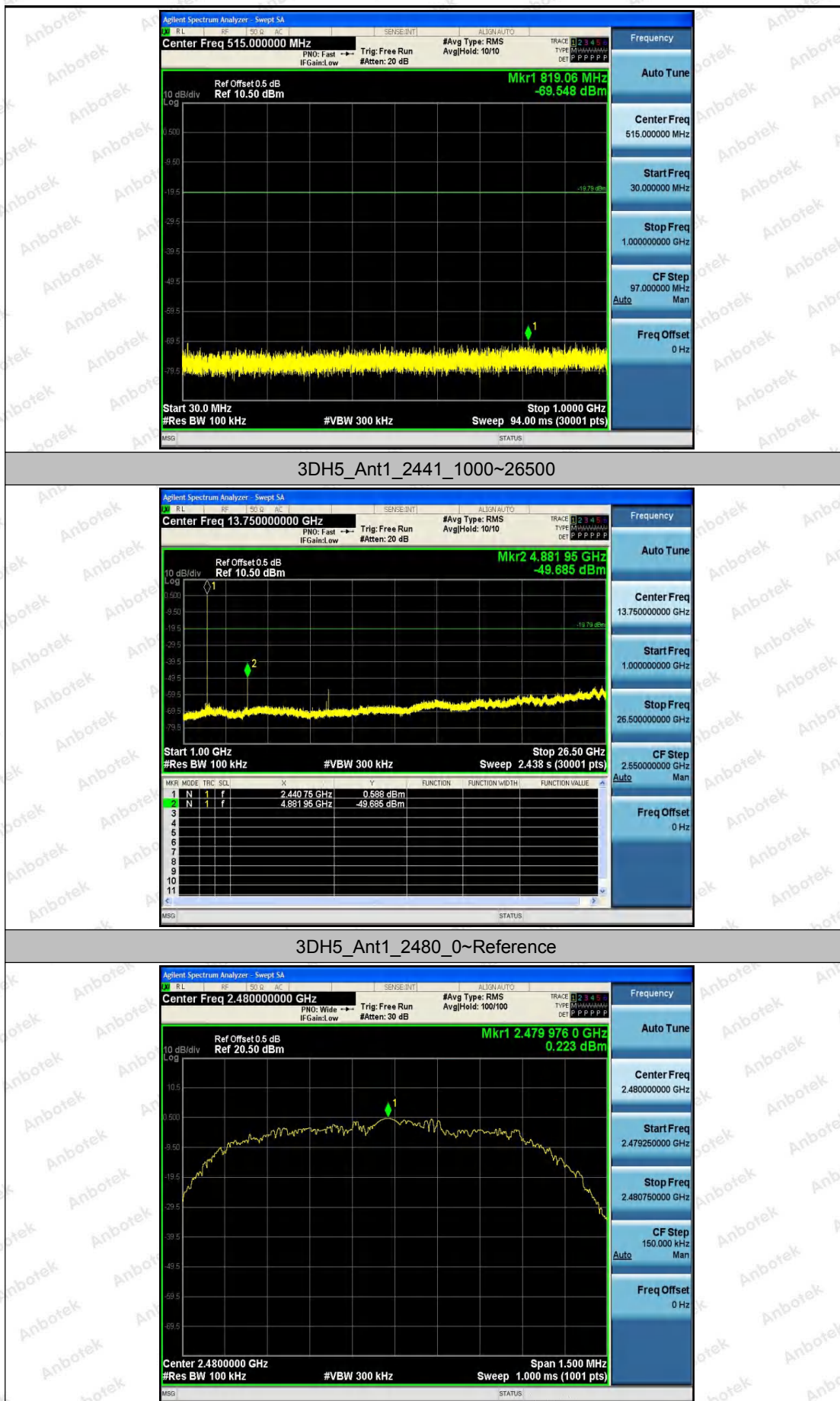
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

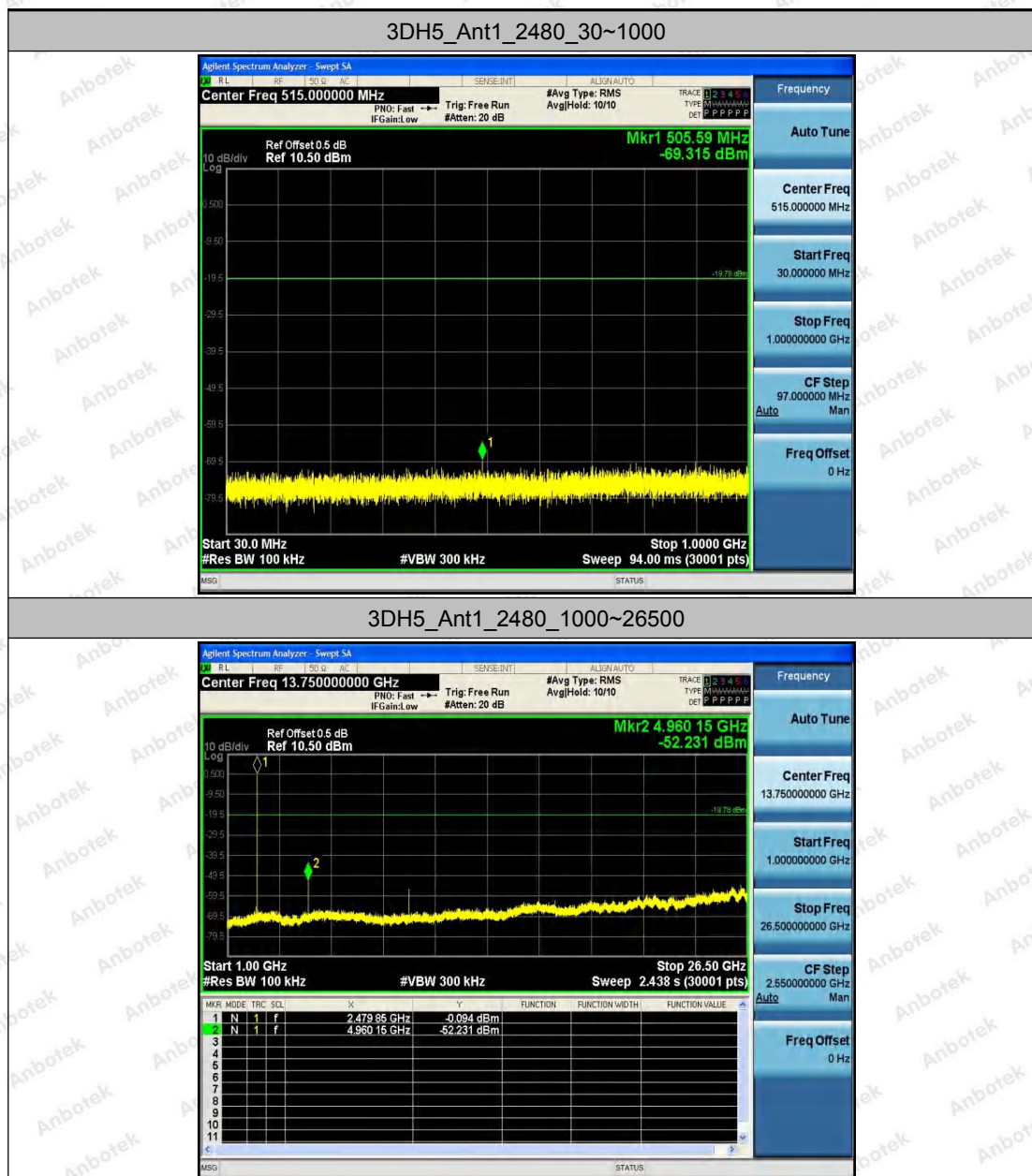


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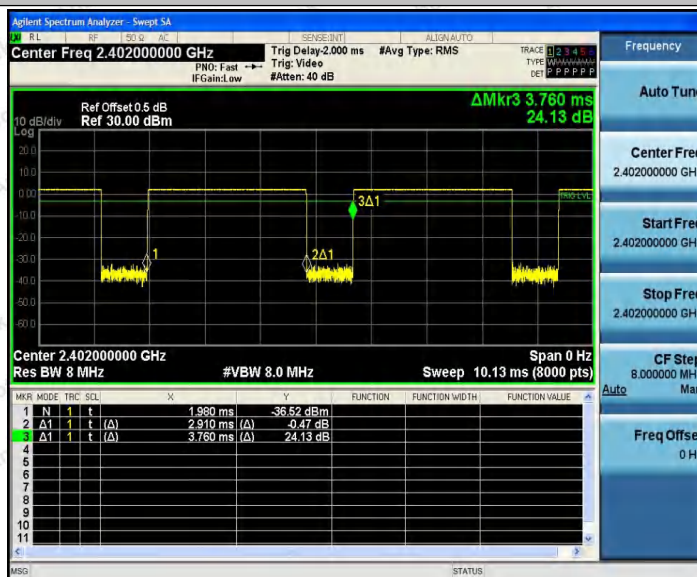
Appendix I: Duty Cycle

Test Result

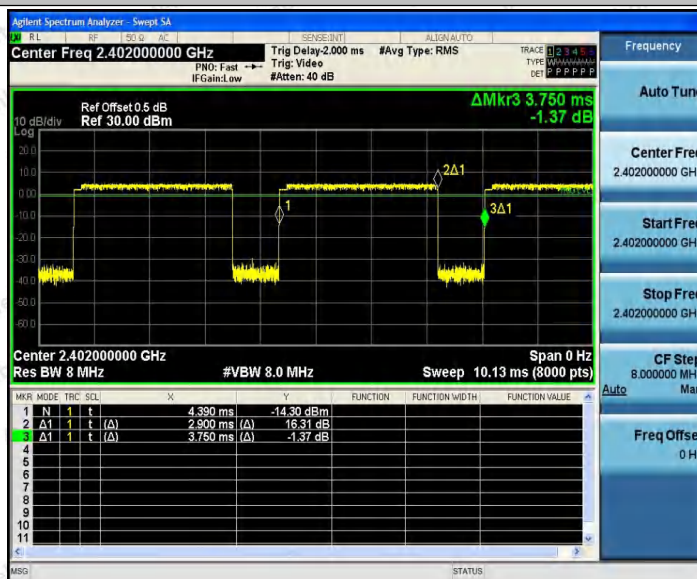
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.76	0.773 9	77.39	1.11	---	PASS
2DH5	Ant1	2402	2.90	3.75	0.773 3	77.33	1.12	---	PASS
3DH5	Ant1	2402	2.91	3.75	0.776 0	77.60	1.10	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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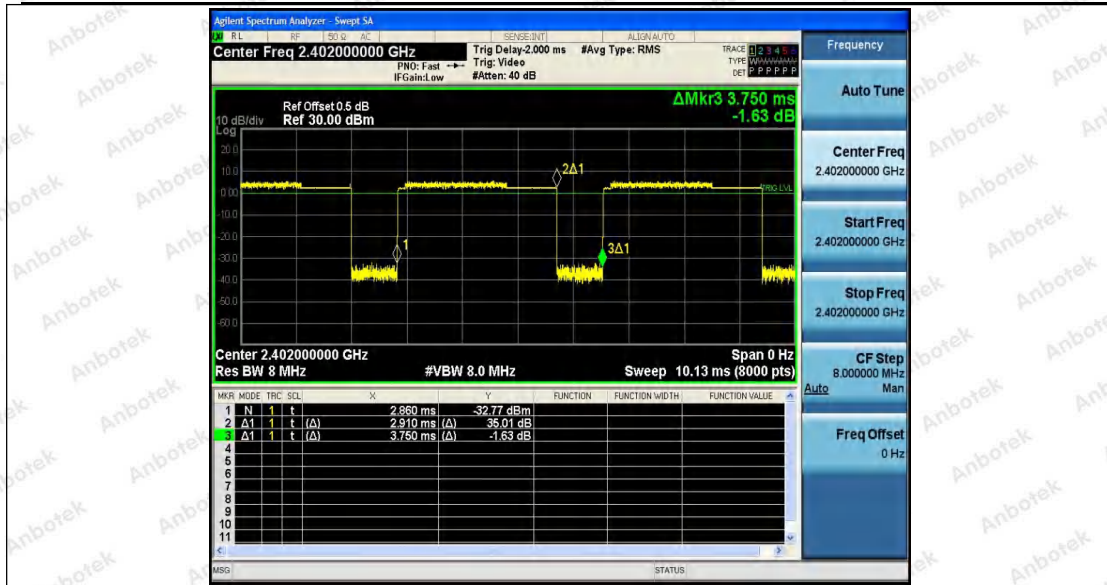
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