

Appendix Test Data

Report No.:	18220WC10249601	Test Date:	2021.11.15
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
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	0.942	2401.532	2402.474	---	PASS
		2441	0.945	2440.532	2441.477	---	PASS
		2480	0.948	2479.532	2480.480	---	PASS
2DH5	Ant1	2402	1.257	2401.361	2402.618	---	PASS
		2441	1.320	2440.331	2441.651	---	PASS
		2480	1.320	2479.331	2480.651	---	PASS
3DH5	Ant1	2402	1.272	2401.346	2402.618	---	PASS
		2441	1.272	2440.346	2441.618	---	PASS
		2480	1.275	2479.346	2480.621	---	PASS

Test Graphs

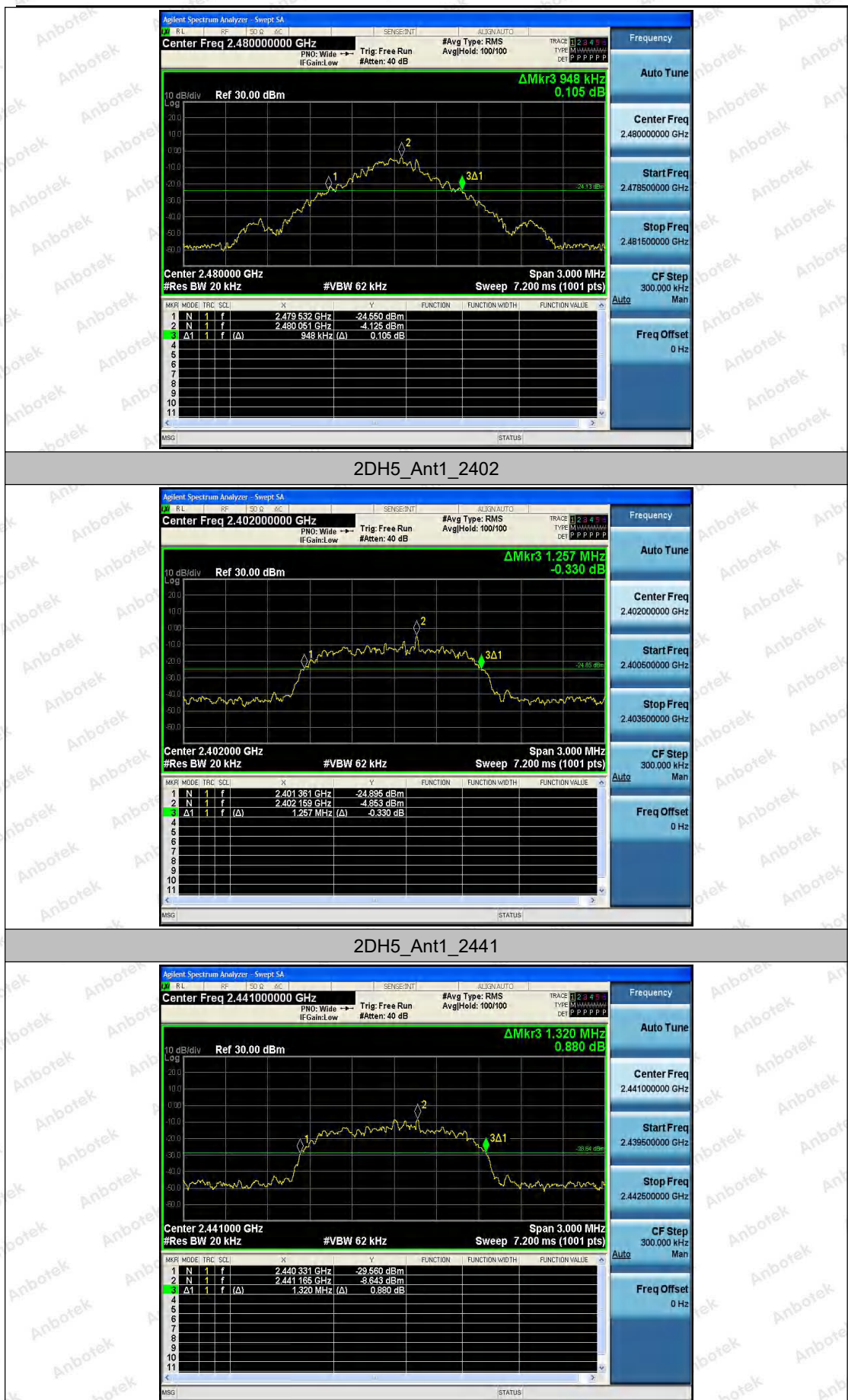
DH5_Ant1_2402



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

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88845	2401.54 8	2402.437	---	PASS
		2441	0.89572	2440.54 6	2441.441	---	PASS
		2480	0.89132	2479.55 0	2480.441	---	PASS
2DH5	Ant1	2402	1.2003	2401.39 3	2402.593	---	PASS
		2441	1.1956	2440.39 7	2441.593	---	PASS
		2480	1.1923	2479.39 7	2480.589	---	PASS
3DH5	Ant1	2402	1.2082	2401.38 4	2402.592	---	PASS
		2441	1.2009	2440.38 6	2441.587	---	PASS
		2480	1.1937	2479.39 2	2480.586	---	PASS

Test Graphs



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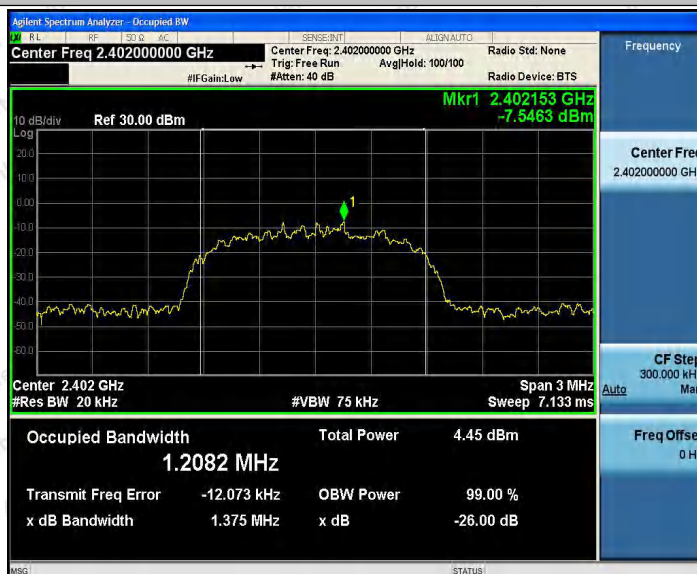
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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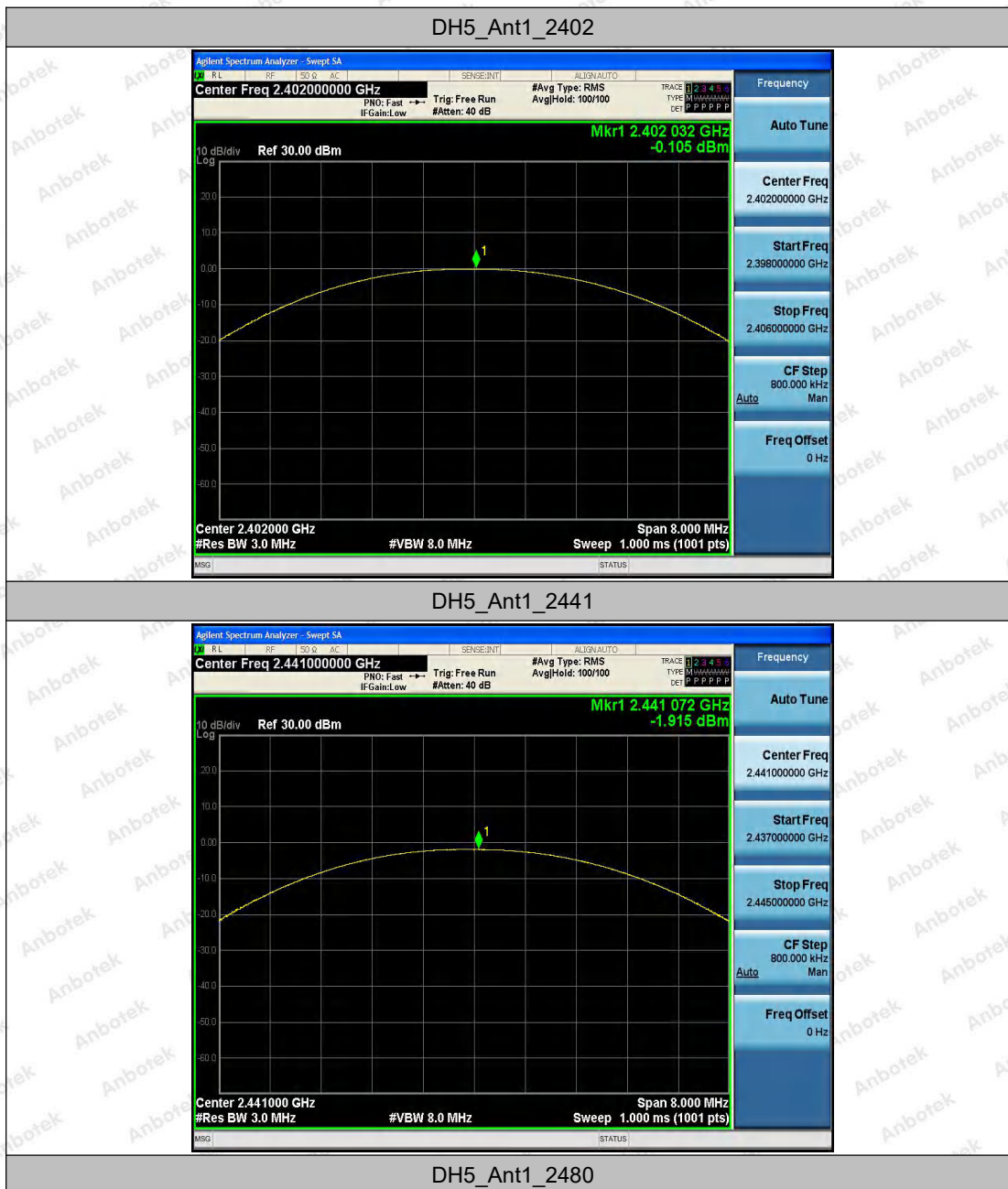
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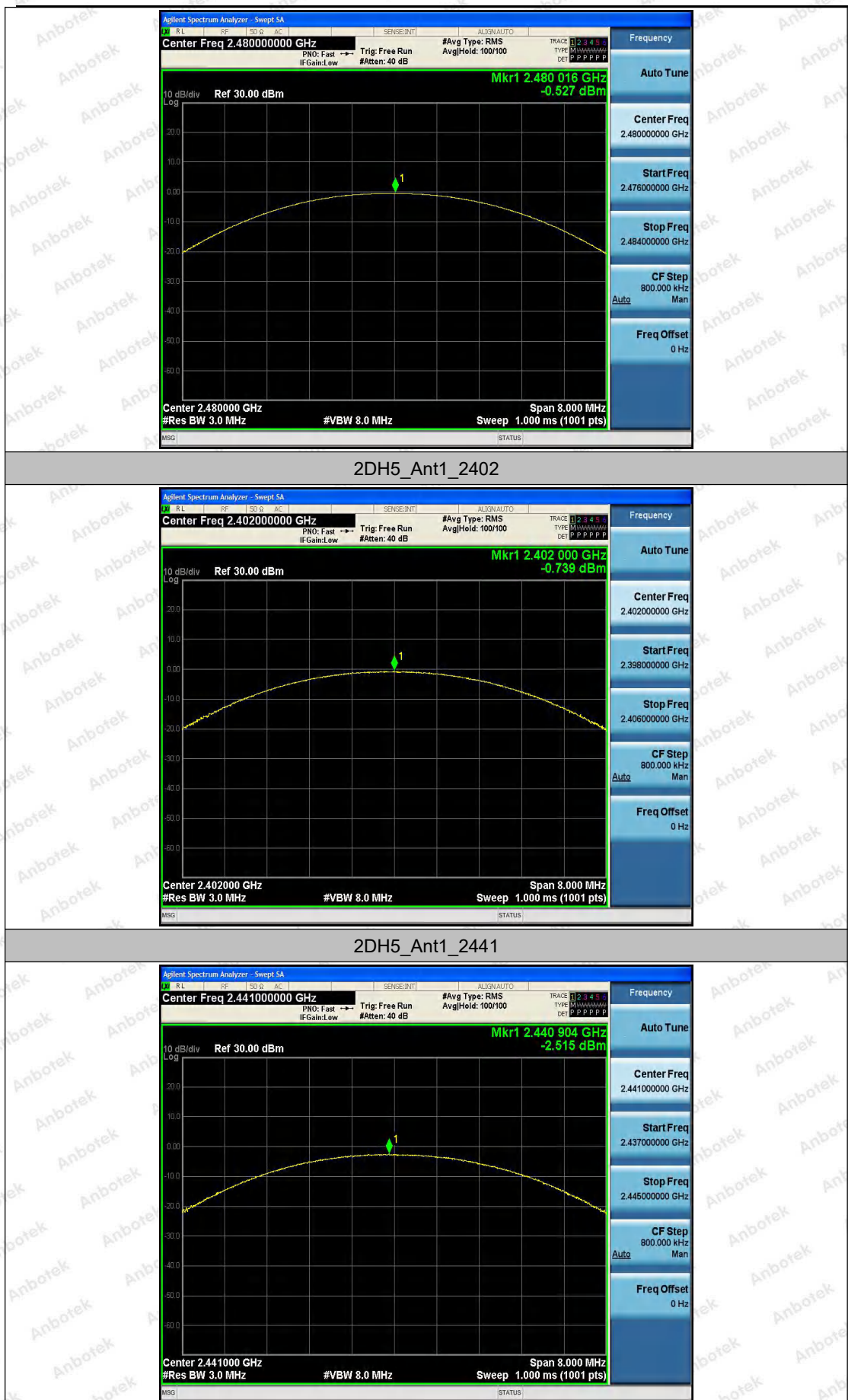
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.11	≤20.97	PASS
		2441	-1.92	≤20.97	PASS
		2480	-0.53	≤20.97	PASS
2DH5	Ant1	2402	-0.74	≤20.97	PASS
		2441	-2.52	≤20.97	PASS
		2480	-1.25	≤20.97	PASS
3DH5	Ant1	2402	-0.47	≤20.97	PASS
		2441	-2.17	≤20.97	PASS
		2480	-1.7	≤20.97	PASS

Test Graphs



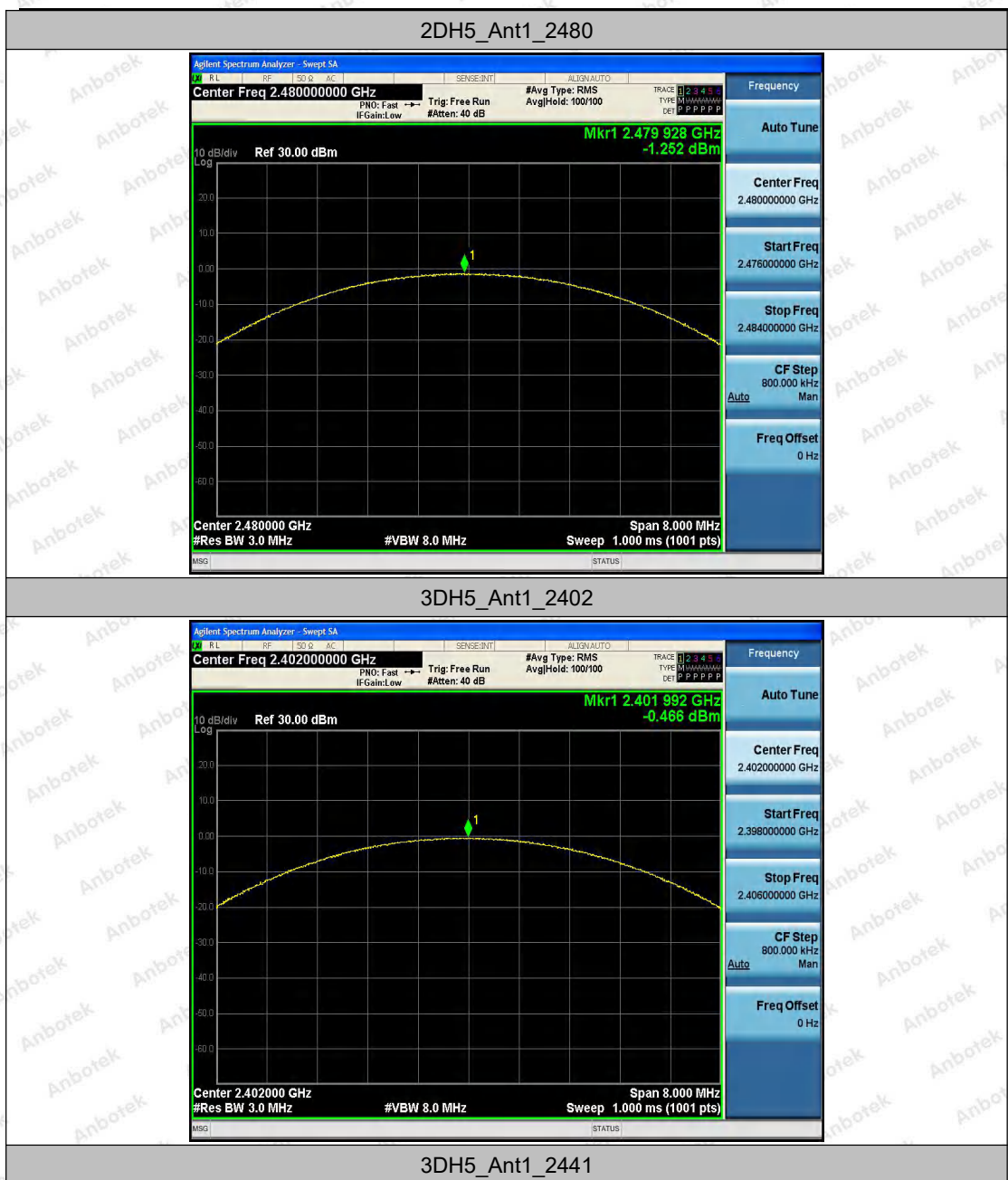


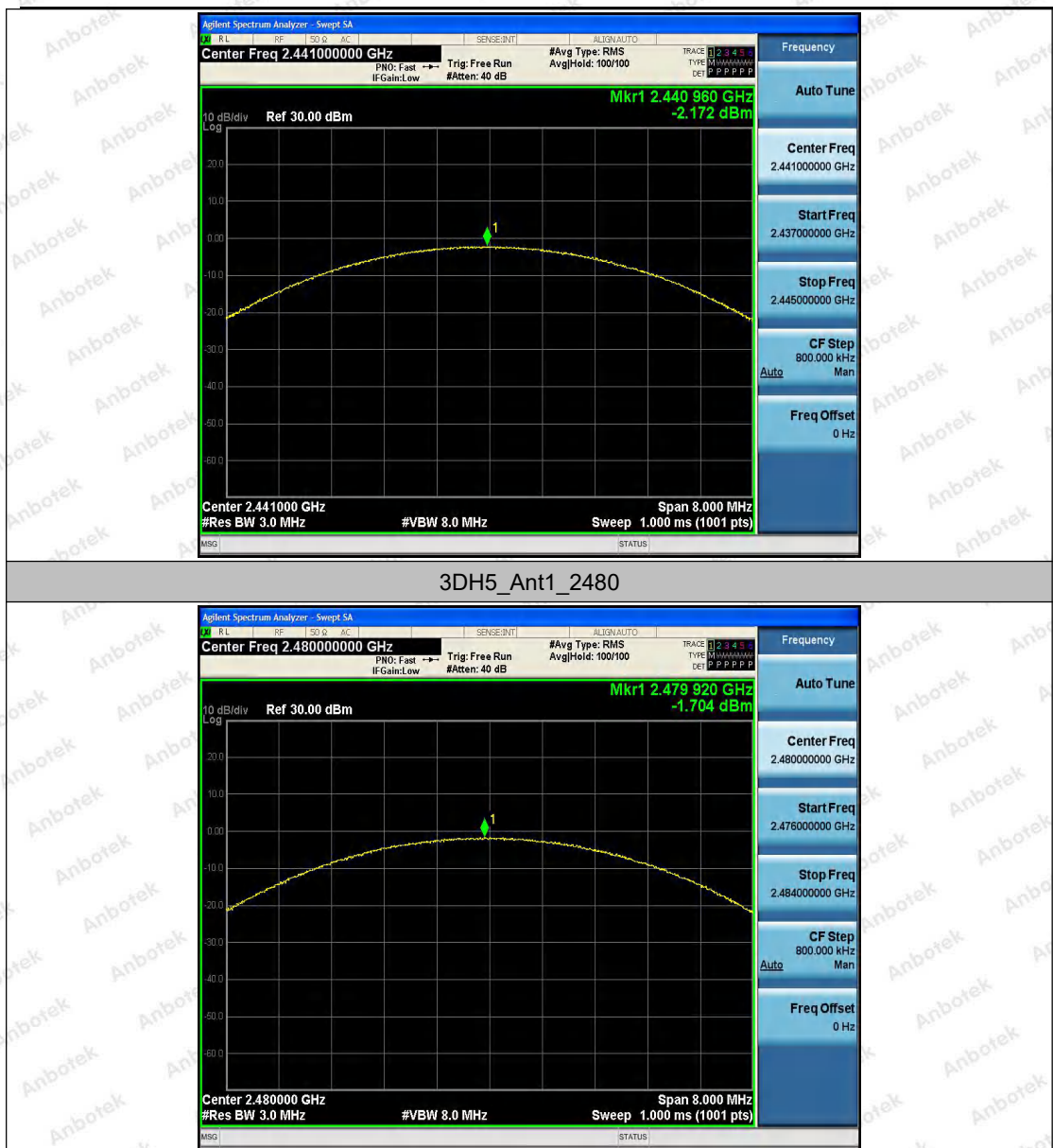
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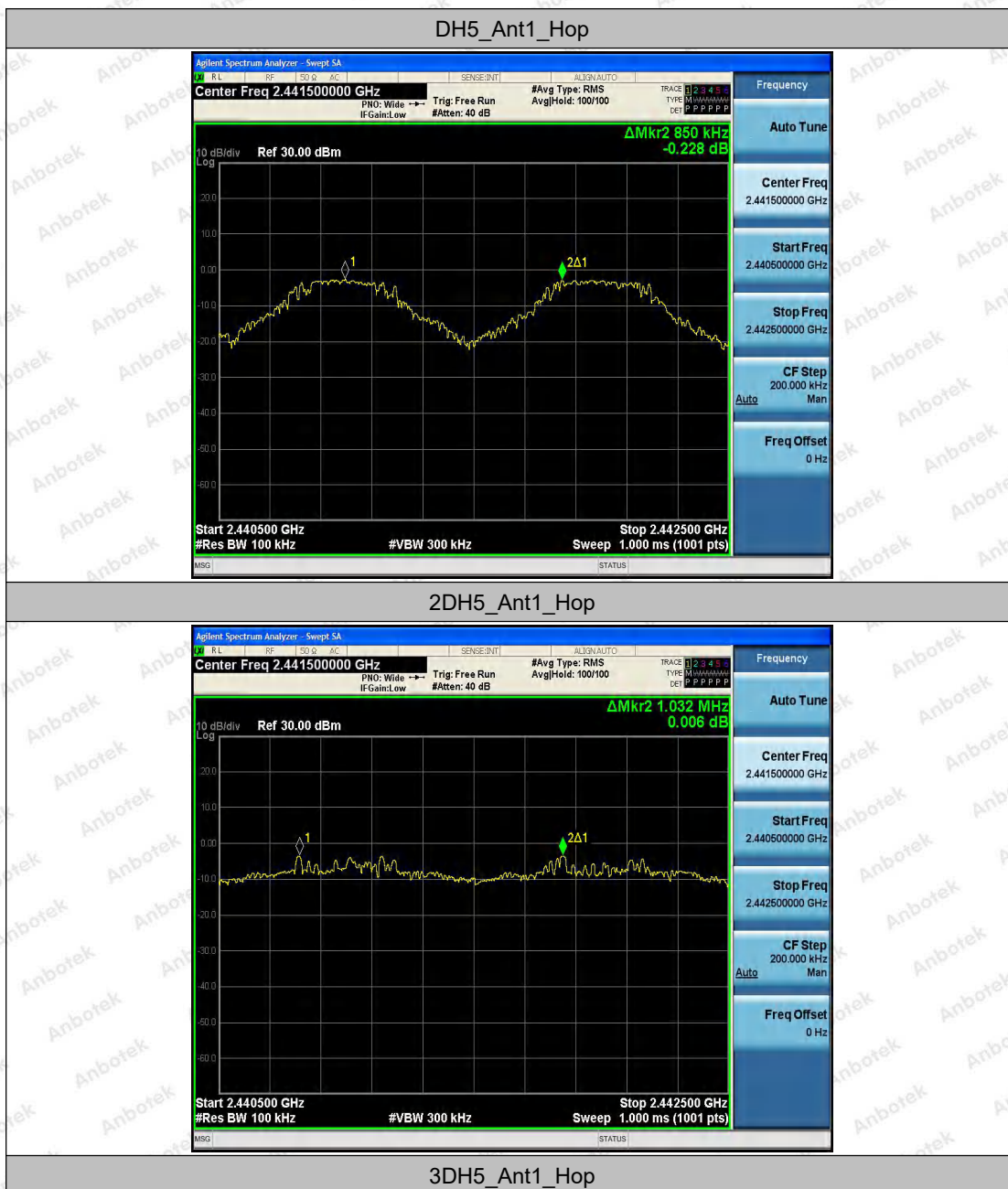
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.85	≥ 0.632	PASS
2DH5	Ant1	Hop	1.032	≥ 0.880	PASS
3DH5	Ant1	Hop	1.15	≥ 0.850	PASS

Test Graphs





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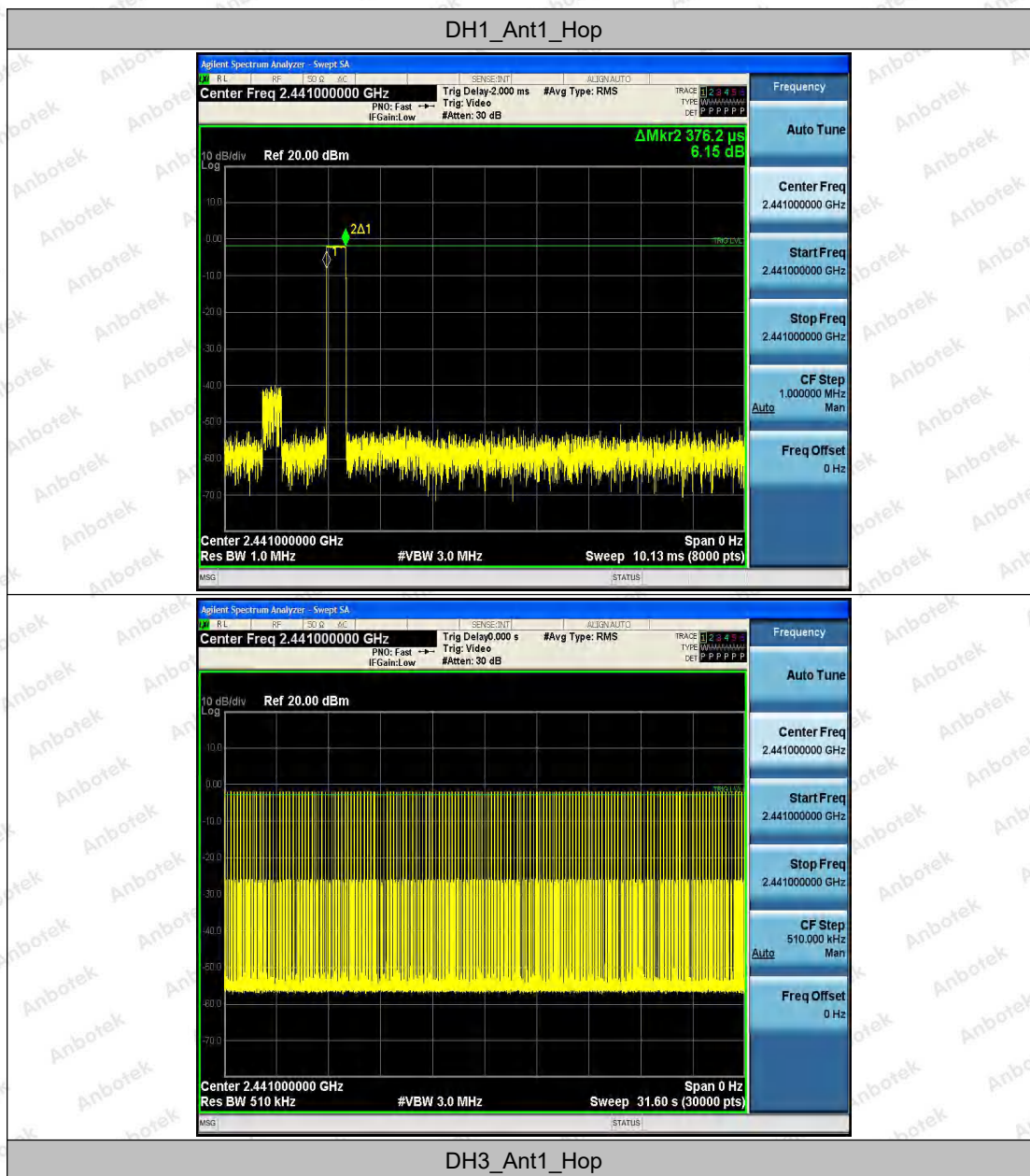
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Appendix E: Time of occupancy

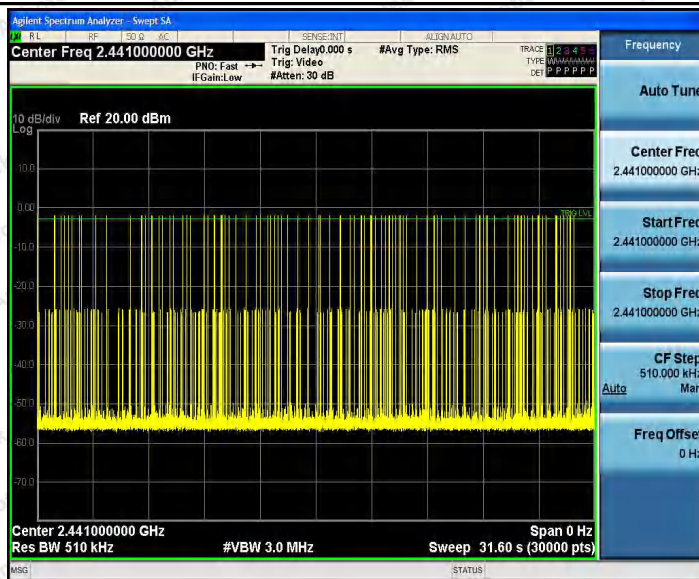
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.38	315	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	158	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
3DH1	Ant1	Hop	0.39	313	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.89	115	0.332	≤0.4	PASS

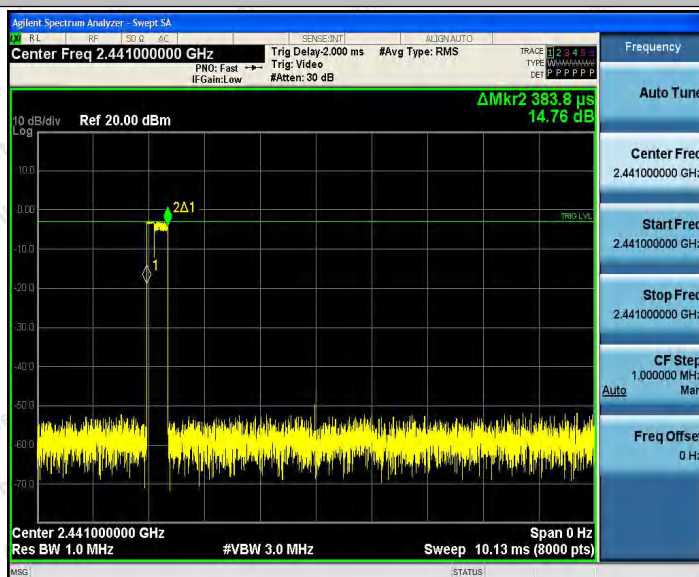
Test Graphs







2DH1_Ant1_Hop



2DH3_Ant1_Hop

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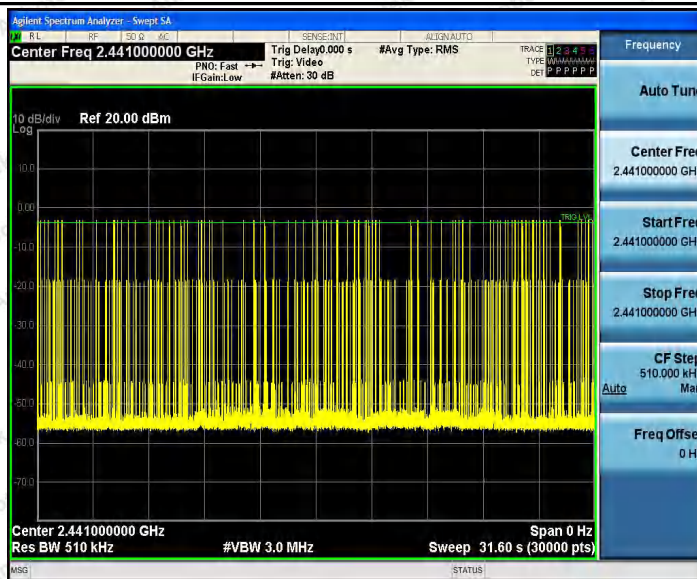
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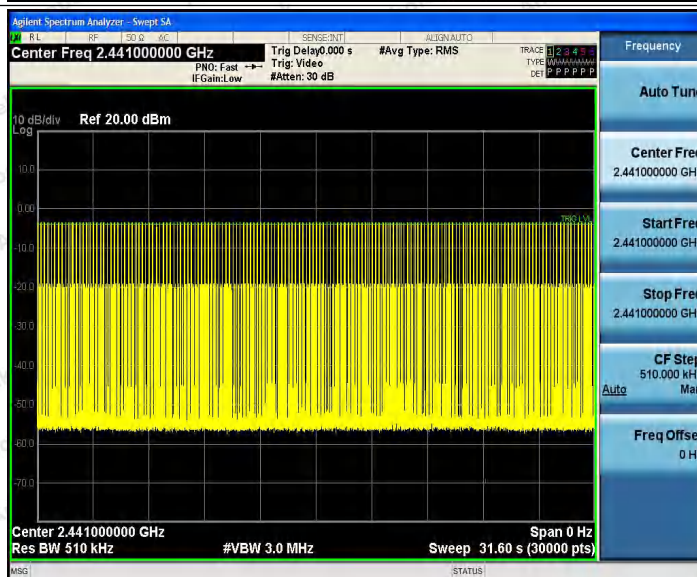
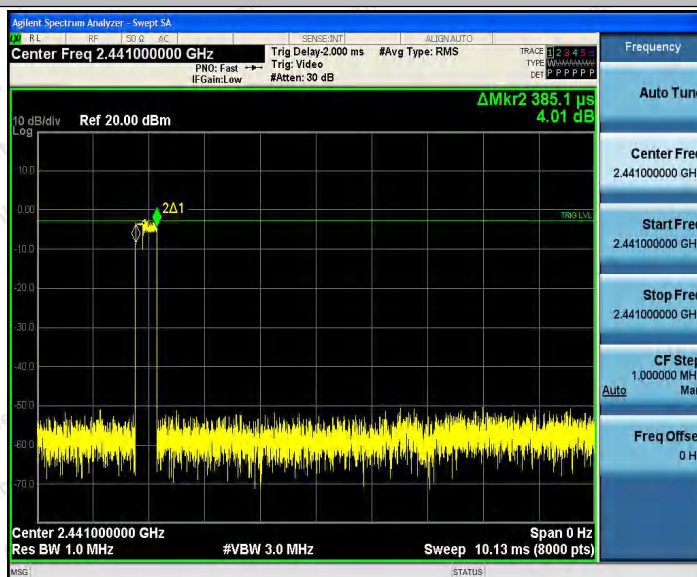
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



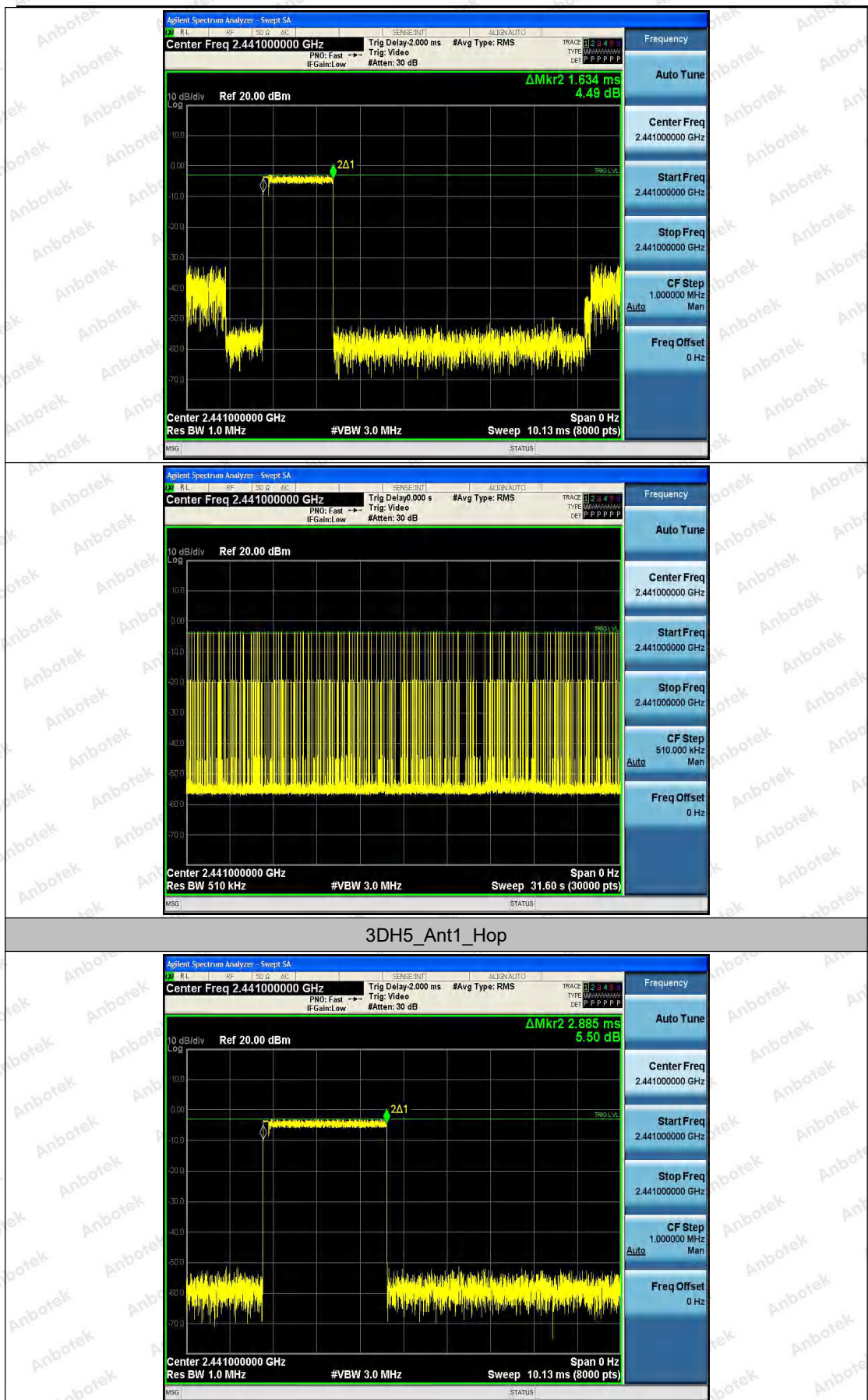
3DH3_Ant1_Hop

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3DH5_Ant1_Hop

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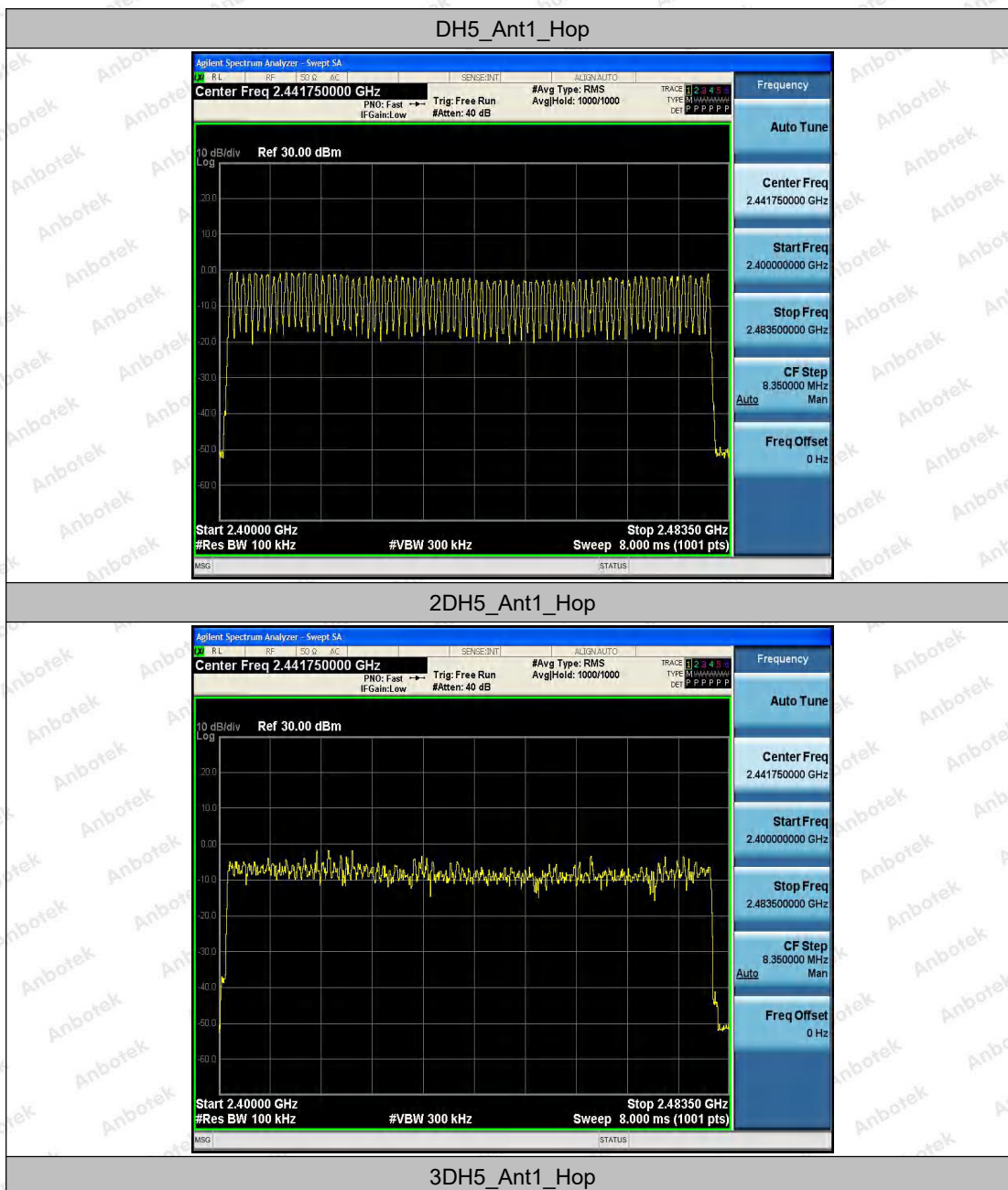
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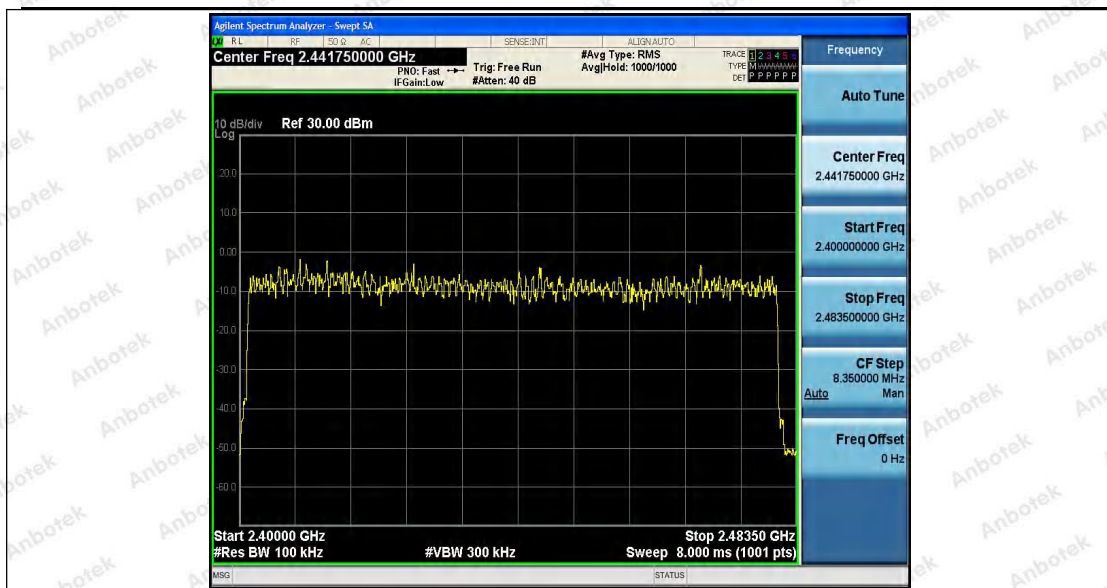
Appendix F: Number of hopping channels

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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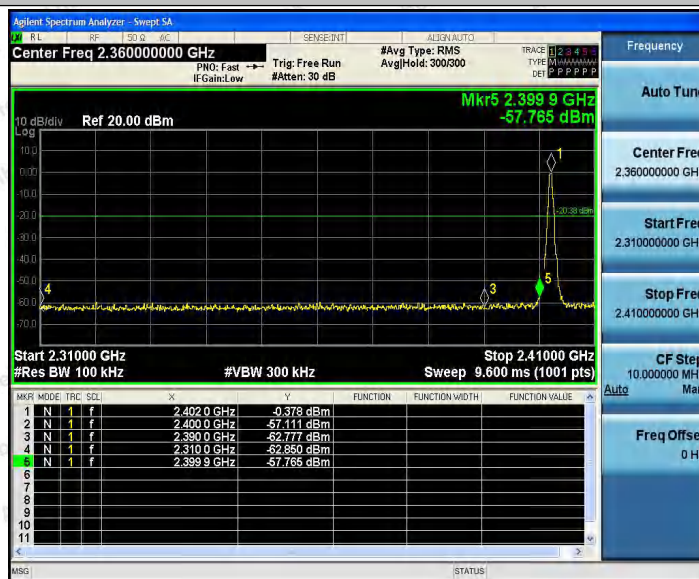
Appendix G: Band edge measurements

Test Result

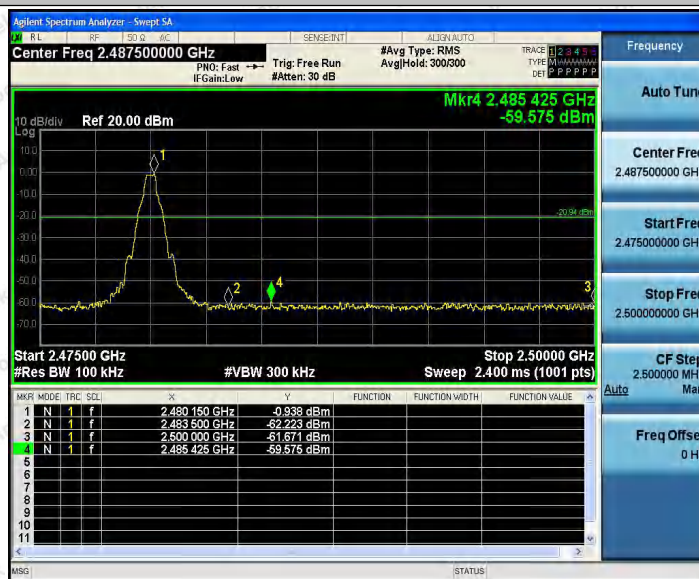
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.38	-57.77	≤-20.38	PASS
		High	2480	-0.94	-59.58	≤-20.94	PASS
		Low	Hop	-0.38	-59.97	≤-20.38	PASS
		High	Hop	-0.88	-61.31	≤-20.88	PASS
2DH5	Ant1	Low	2402	-1.60	-55.68	≤-21.6	PASS
		High	2480	-2.17	-59.57	≤-22.17	PASS
		Low	Hop	-4.09	-59.51	≤-24.09	PASS
		High	Hop	-4.57	-59.68	≤-24.57	PASS
3DH5	Ant1	Low	2402	-2.42	-57.57	≤-22.42	PASS
		High	2480	-2.44	-58.95	≤-22.44	PASS
		Low	Hop	-4.40	-59.81	≤-24.4	PASS
		High	Hop	-7.57	-60.56	≤-27.57	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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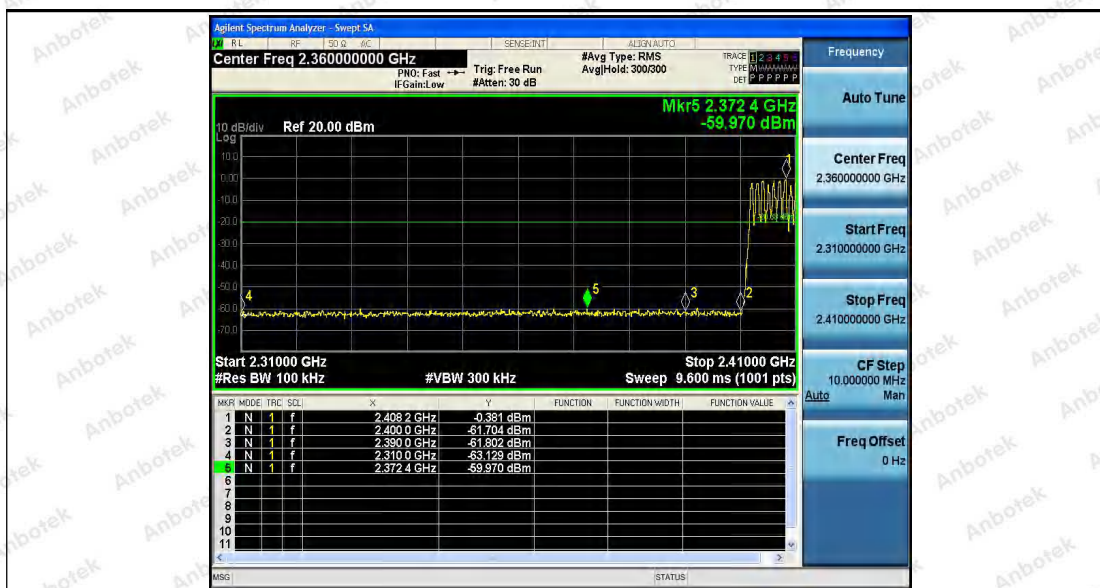
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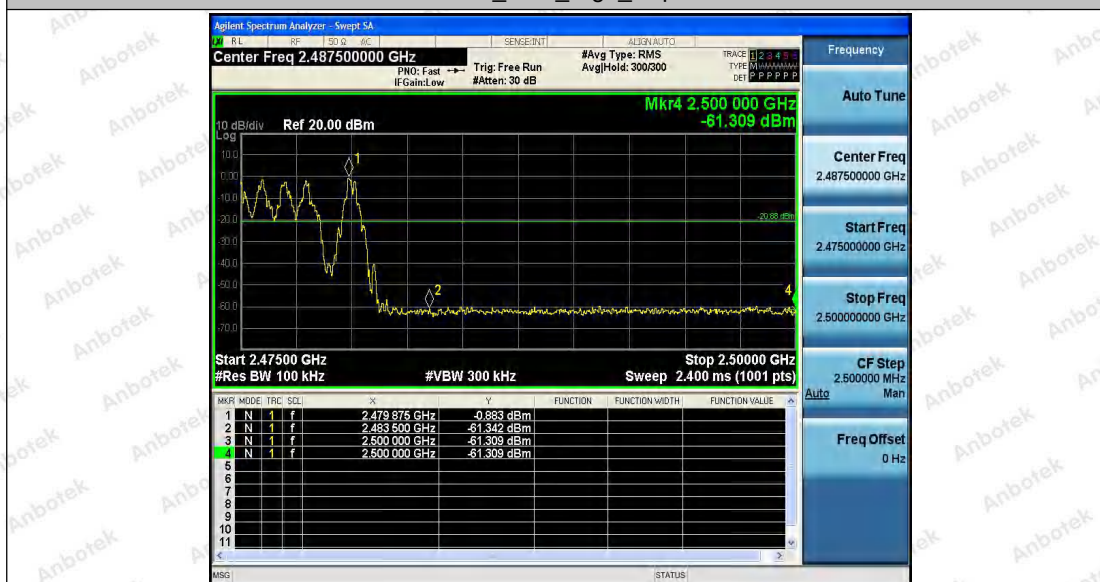
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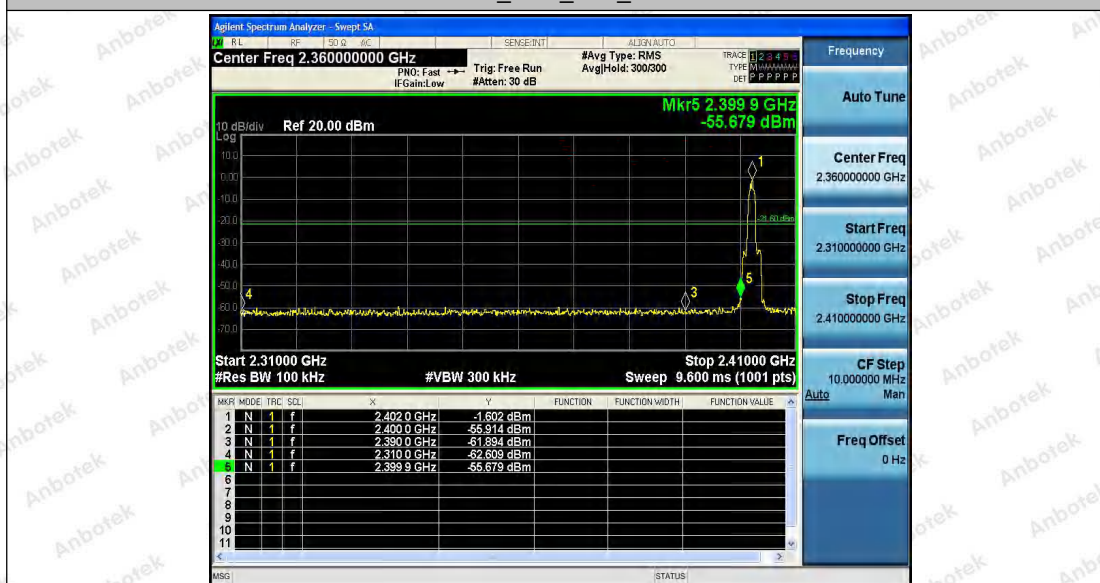
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



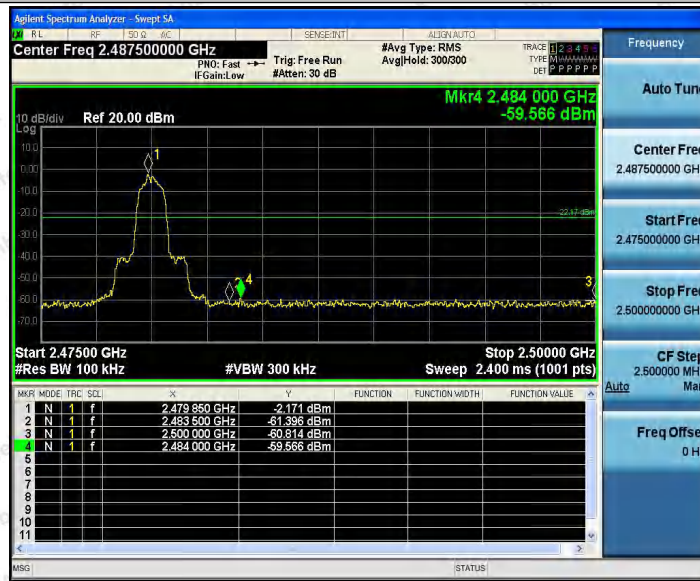
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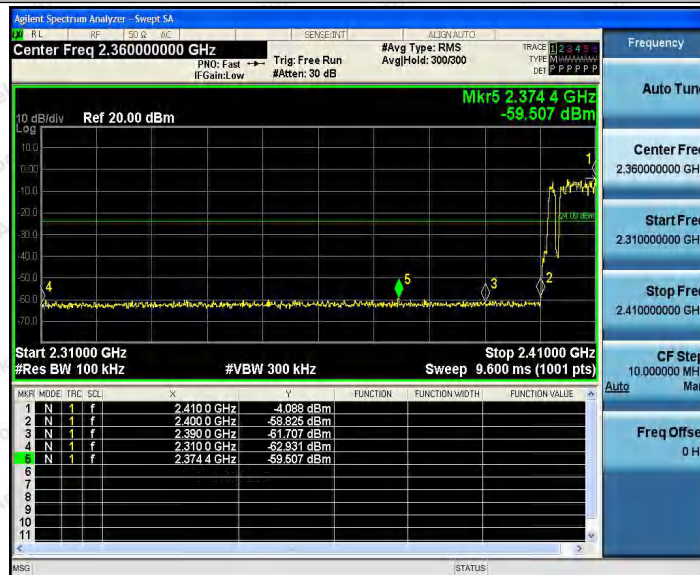
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



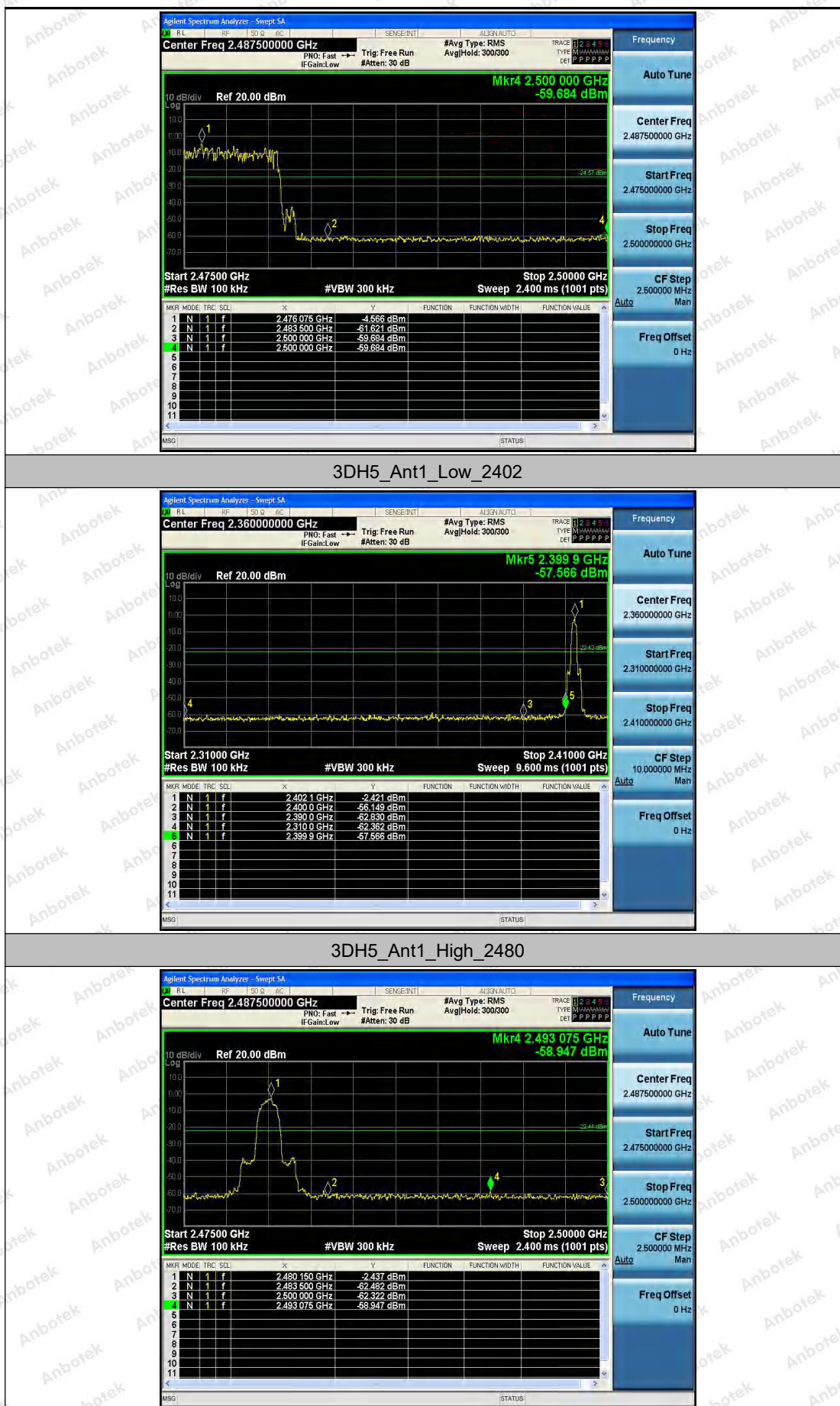
2DH5_Ant1_High_Hop

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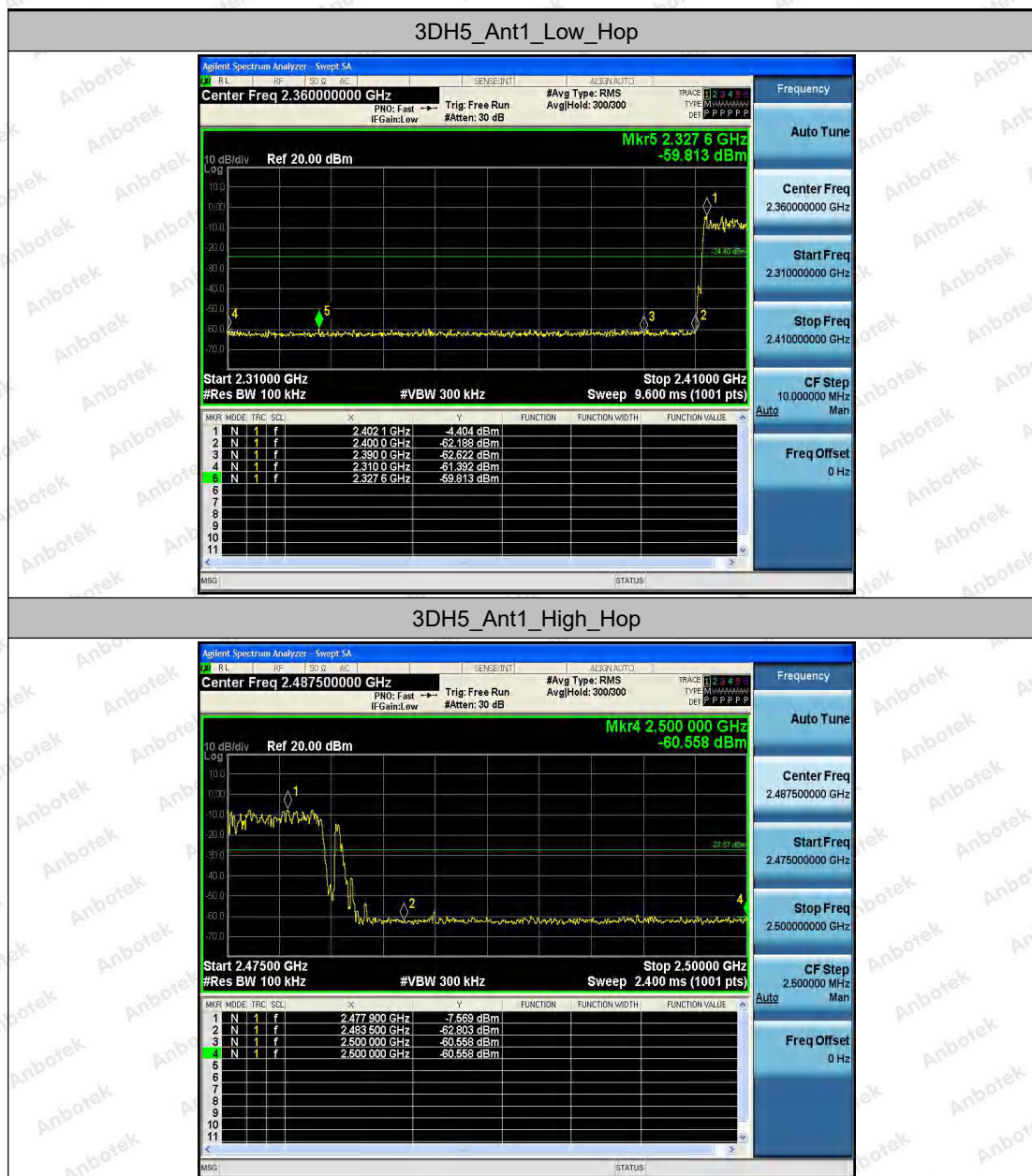


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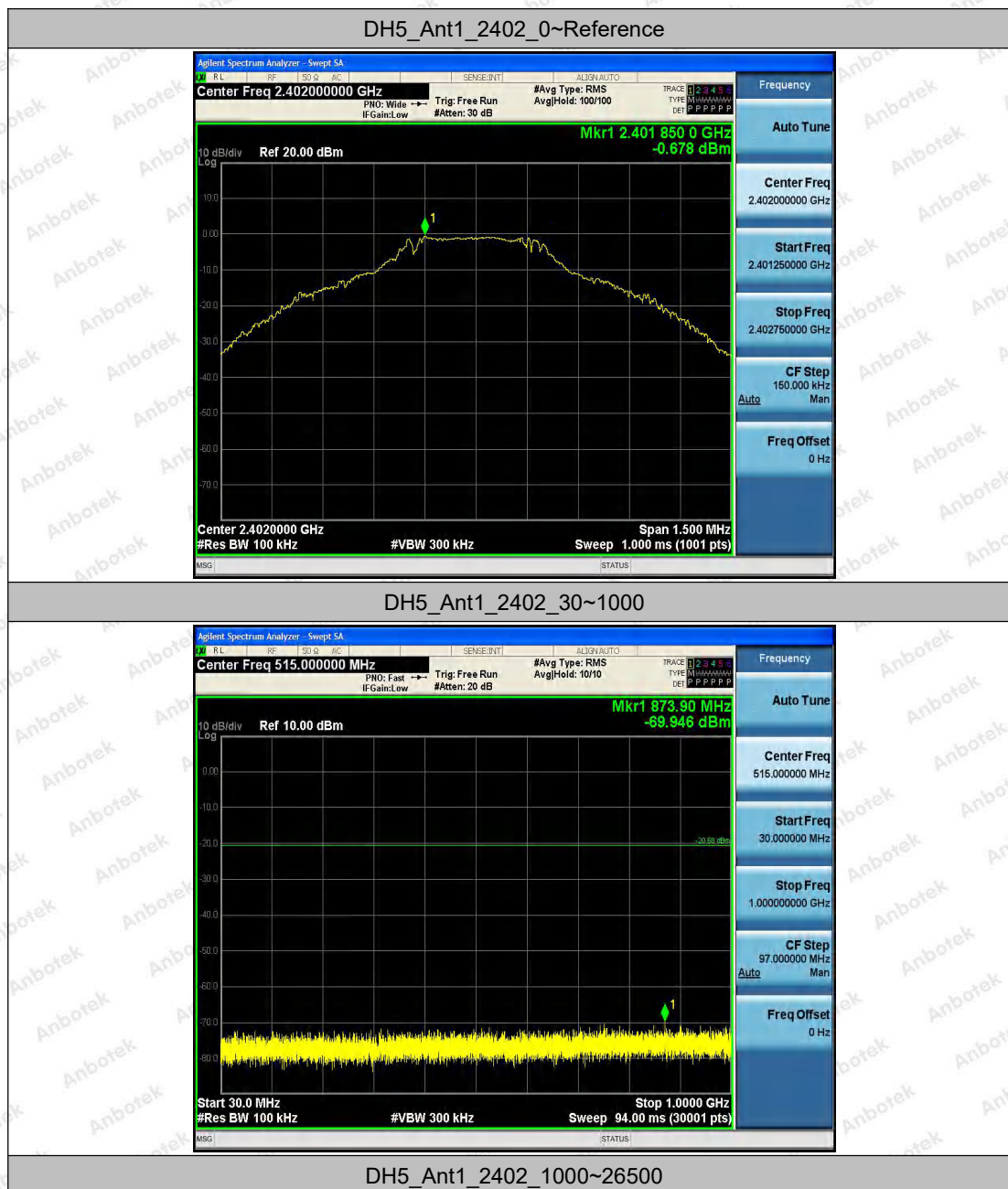
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-69.95	≤-20.68	PASS
			1000~26500	-0.68	-43.91	≤-20.68	PASS
		2441	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-70.46	≤-22.45	PASS
			1000~26500	-2.45	-46.49	≤-22.45	PASS
		2480	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-70.3	≤-21.05	PASS
			1000~26500	-1.05	-48.59	≤-21.05	PASS
2DH5	Ant1	2402	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-70.1	≤-21.61	PASS
			1000~26500	-1.61	-46.88	≤-21.61	PASS
		2441	Reference	-4.14	-4.14	---	PASS
			30~1000	-4.14	-69.55	≤-24.14	PASS
			1000~26500	-4.14	-51.47	≤-24.14	PASS
		2480	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-63.08	≤-22.37	PASS
			1000~26500	-2.37	-43.97	≤-22.37	PASS
3DH5	Ant1	2402	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-43.59	≤-22.17	PASS
			1000~26500	-2.17	-45.99	≤-22.17	PASS
		2441	Reference	-4.60	-4.60	---	PASS
			30~1000	-4.60	-70.68	≤-24.6	PASS
			1000~26500	-4.60	-49.81	≤-24.6	PASS
		2480	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-70.54	≤-22.66	PASS
			1000~26500	-2.66	-50.77	≤-22.66	PASS

Test Graphs



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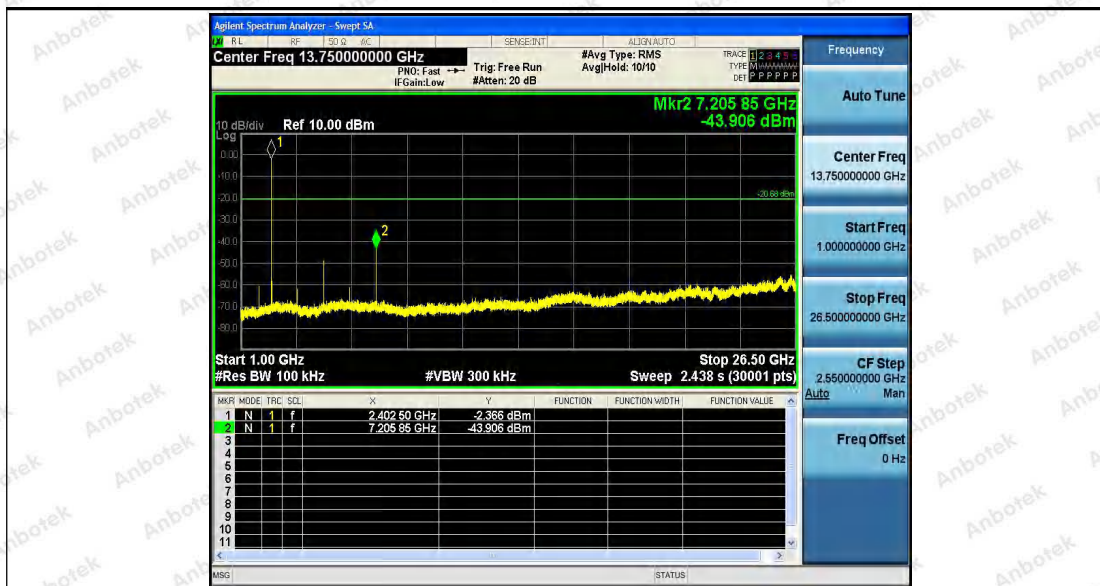
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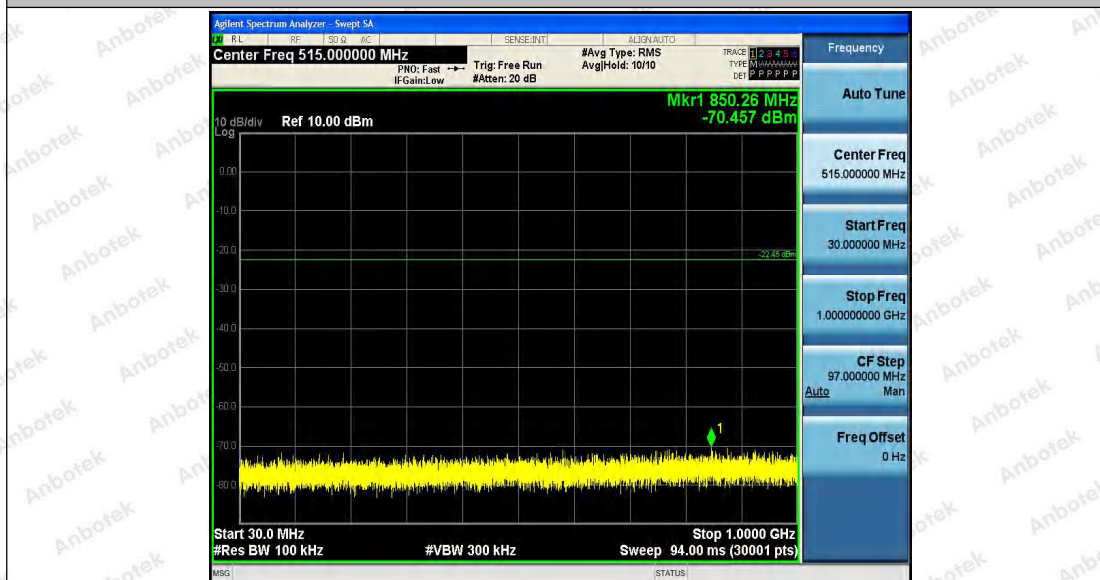
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



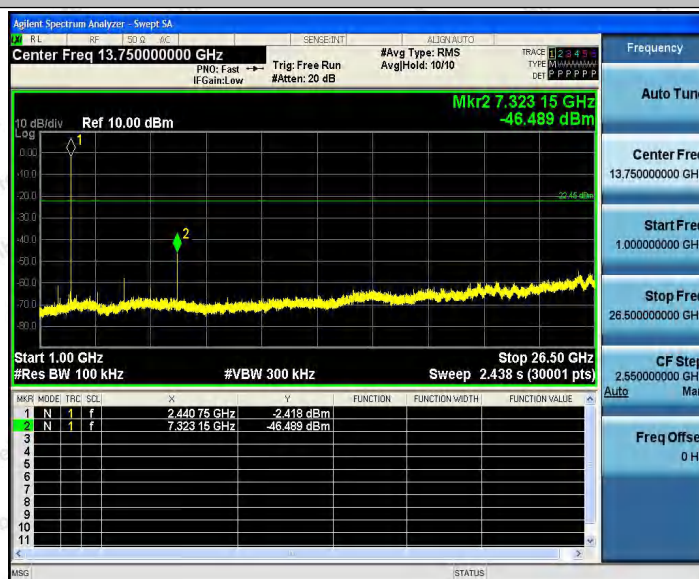
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



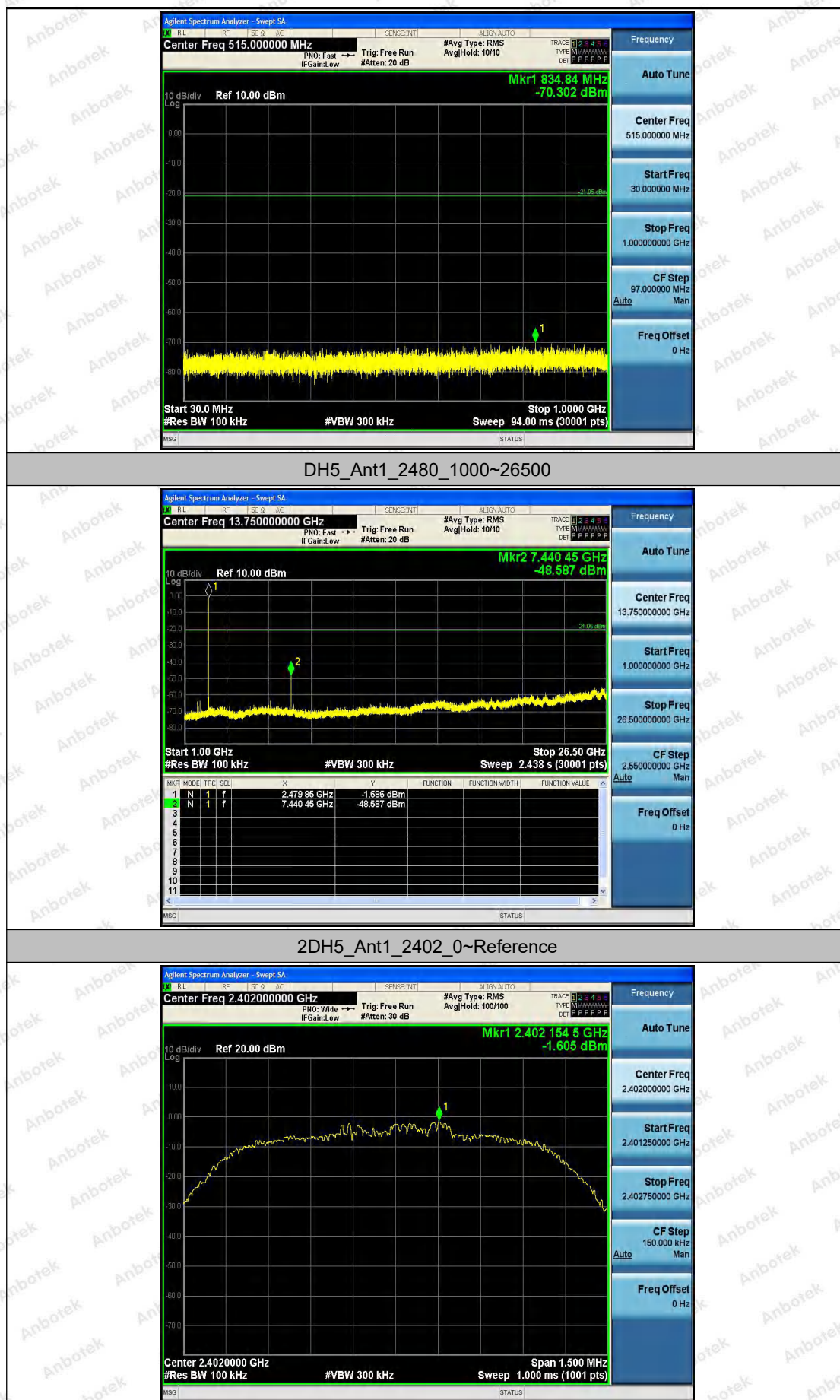
DH5_Ant1_2480_30~1000

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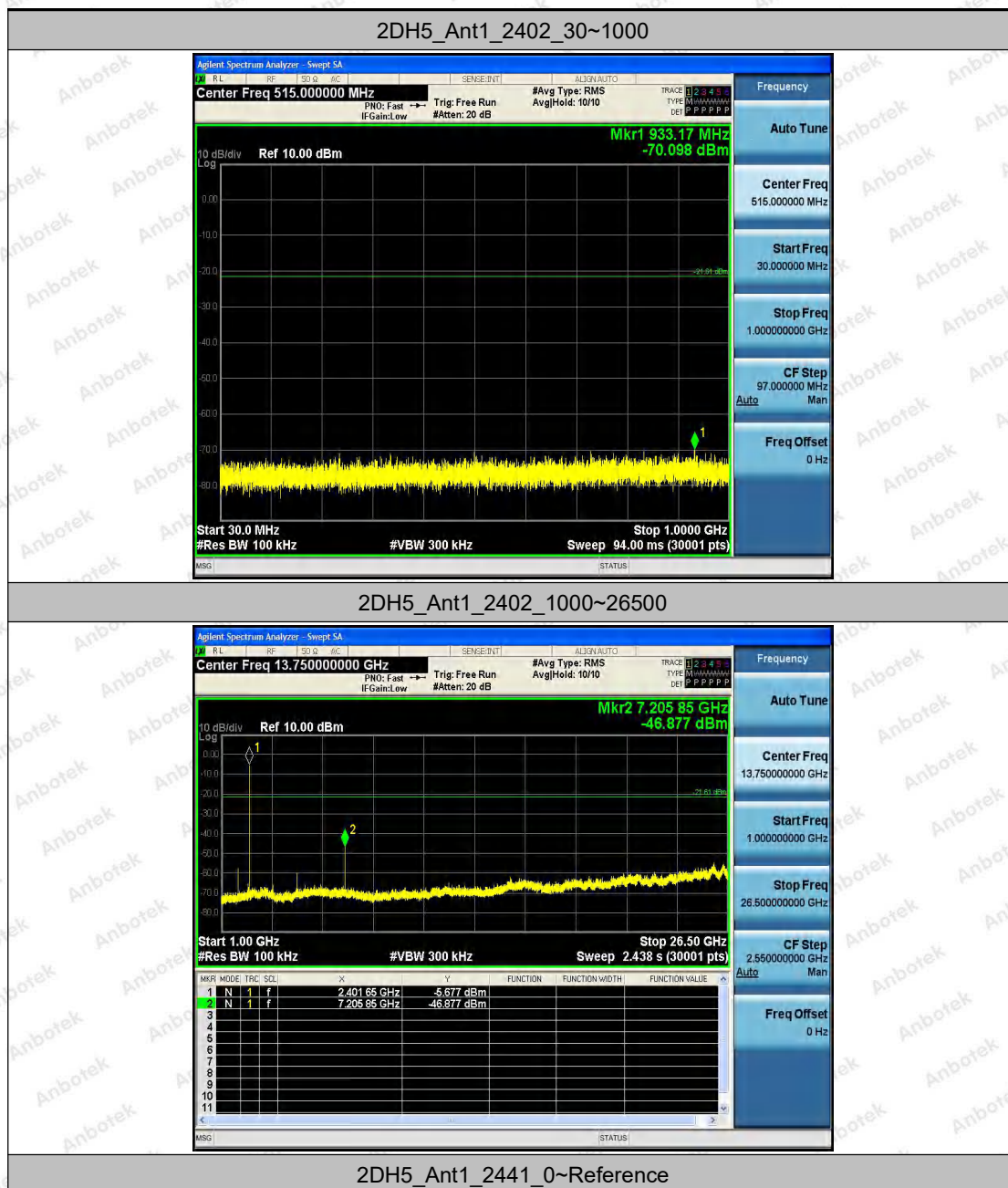


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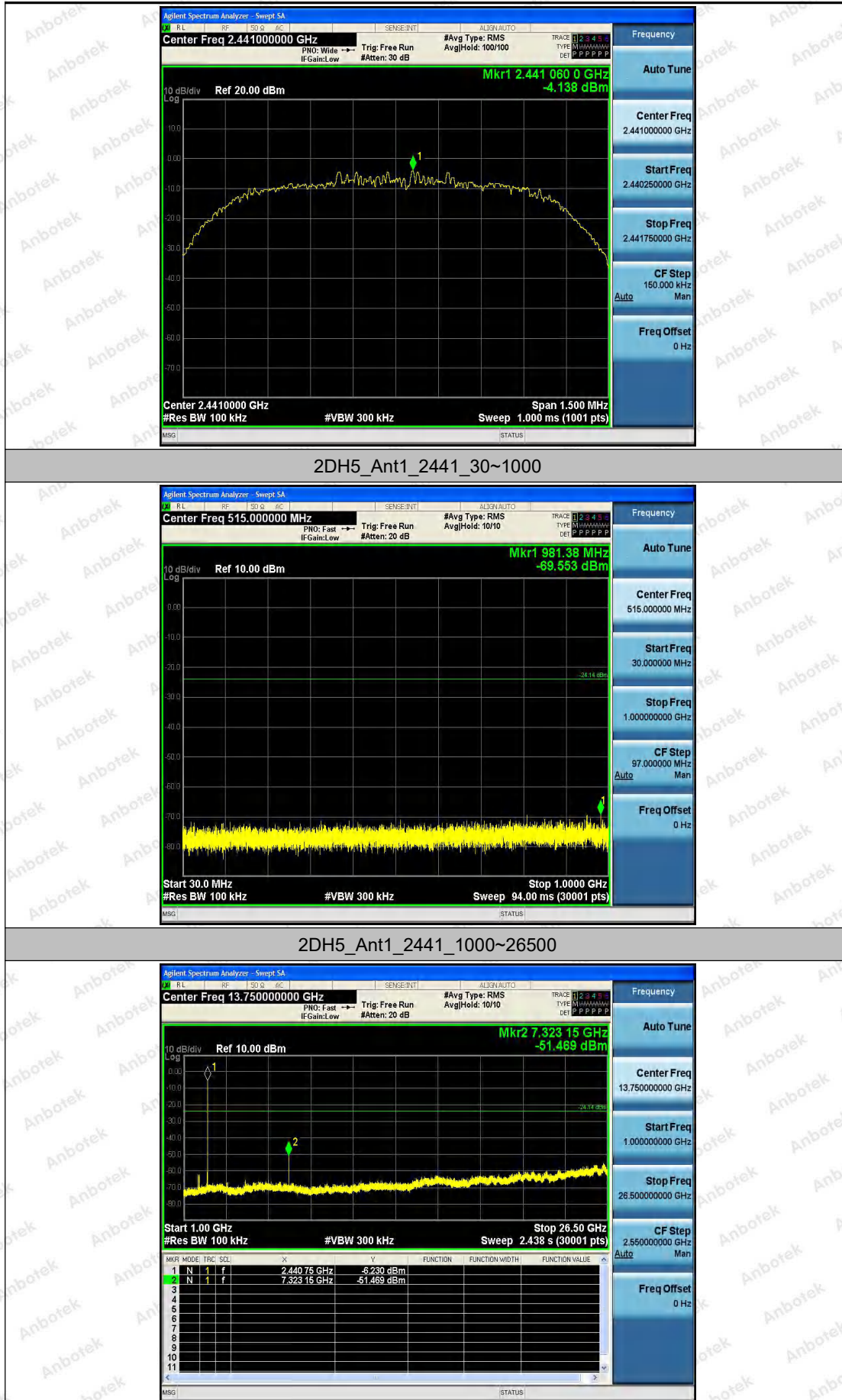


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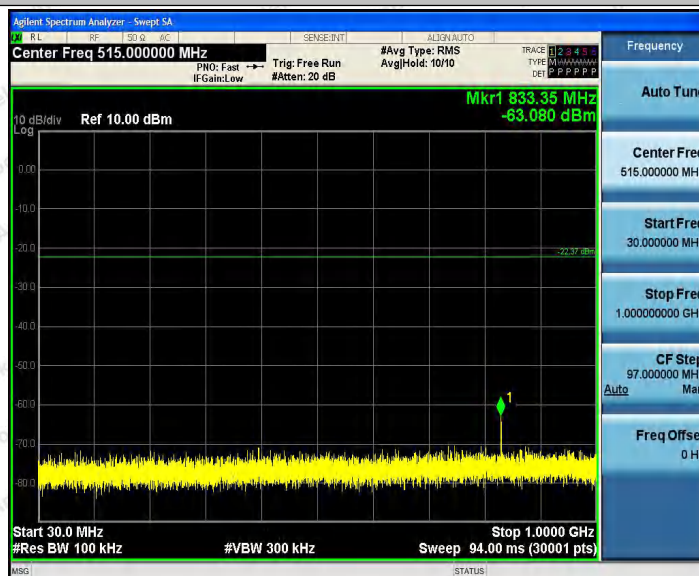
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



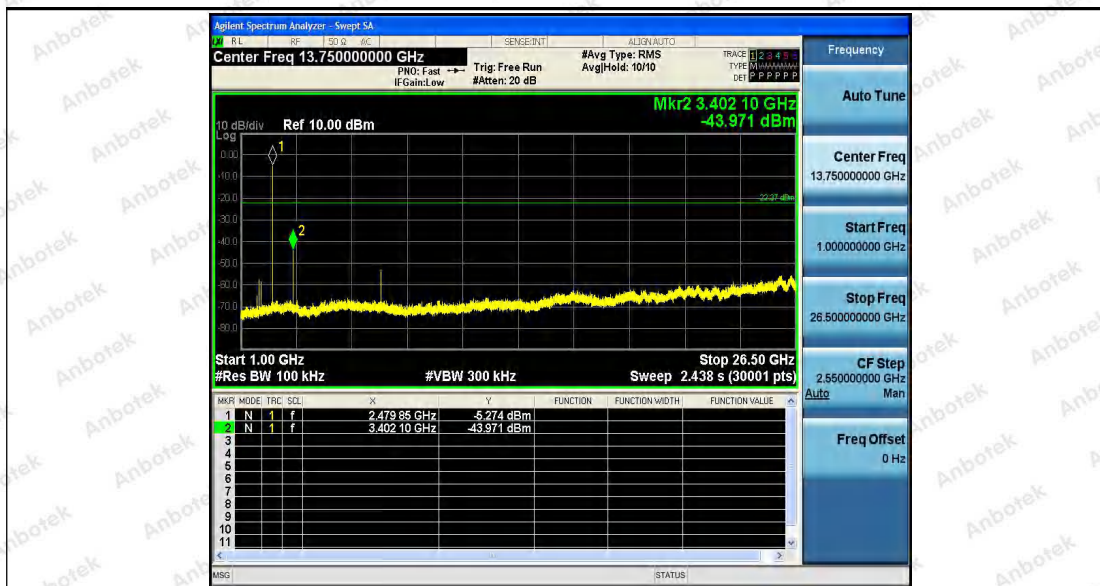
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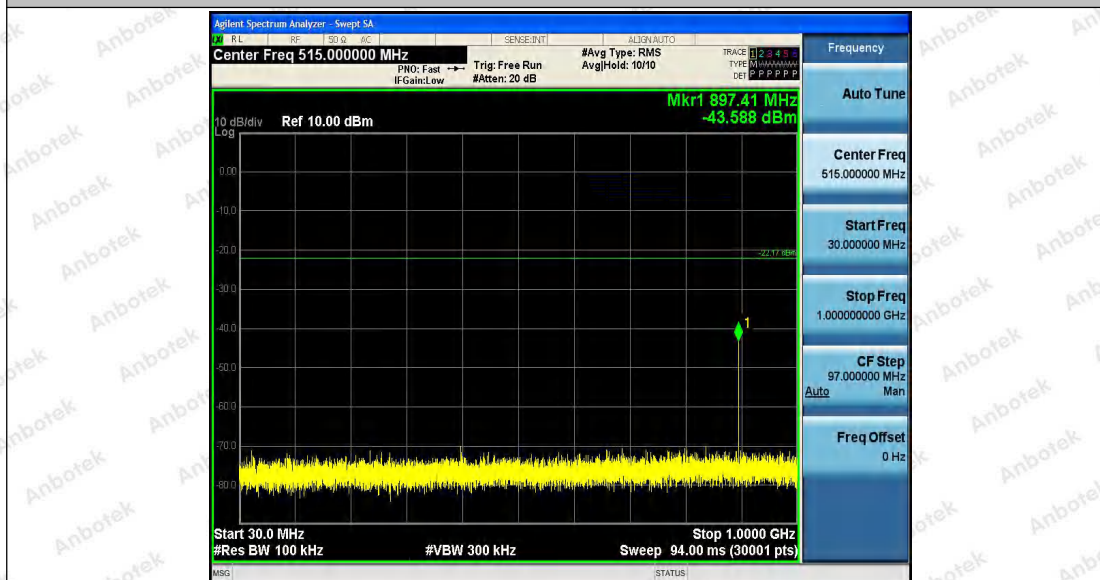
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



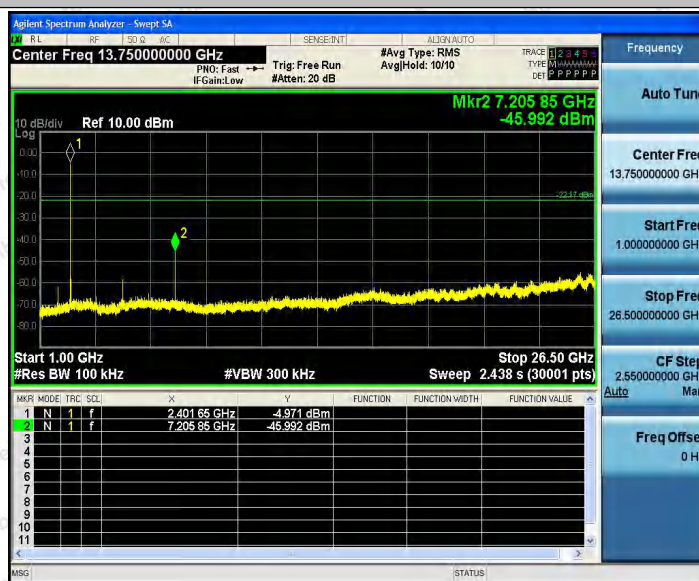
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



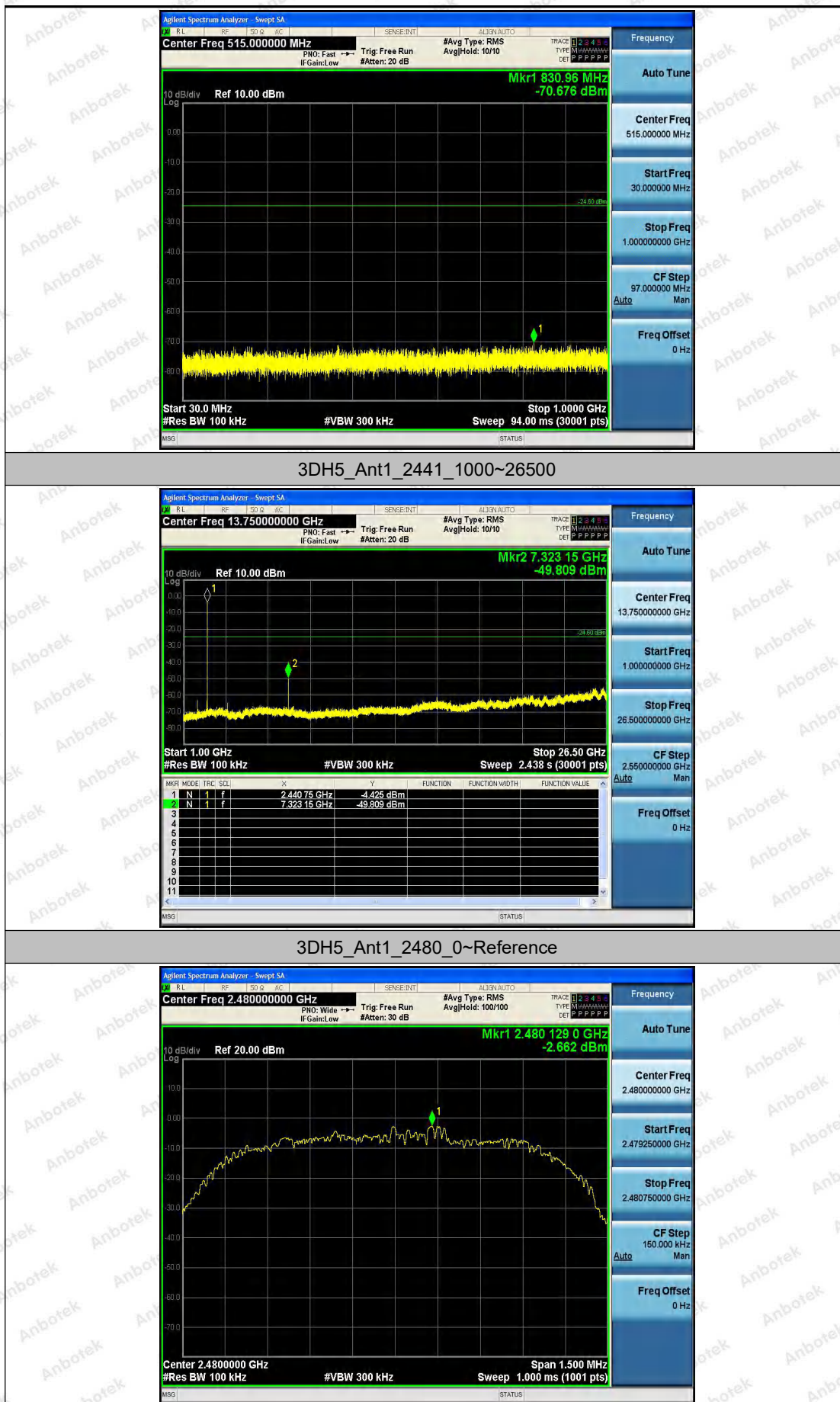
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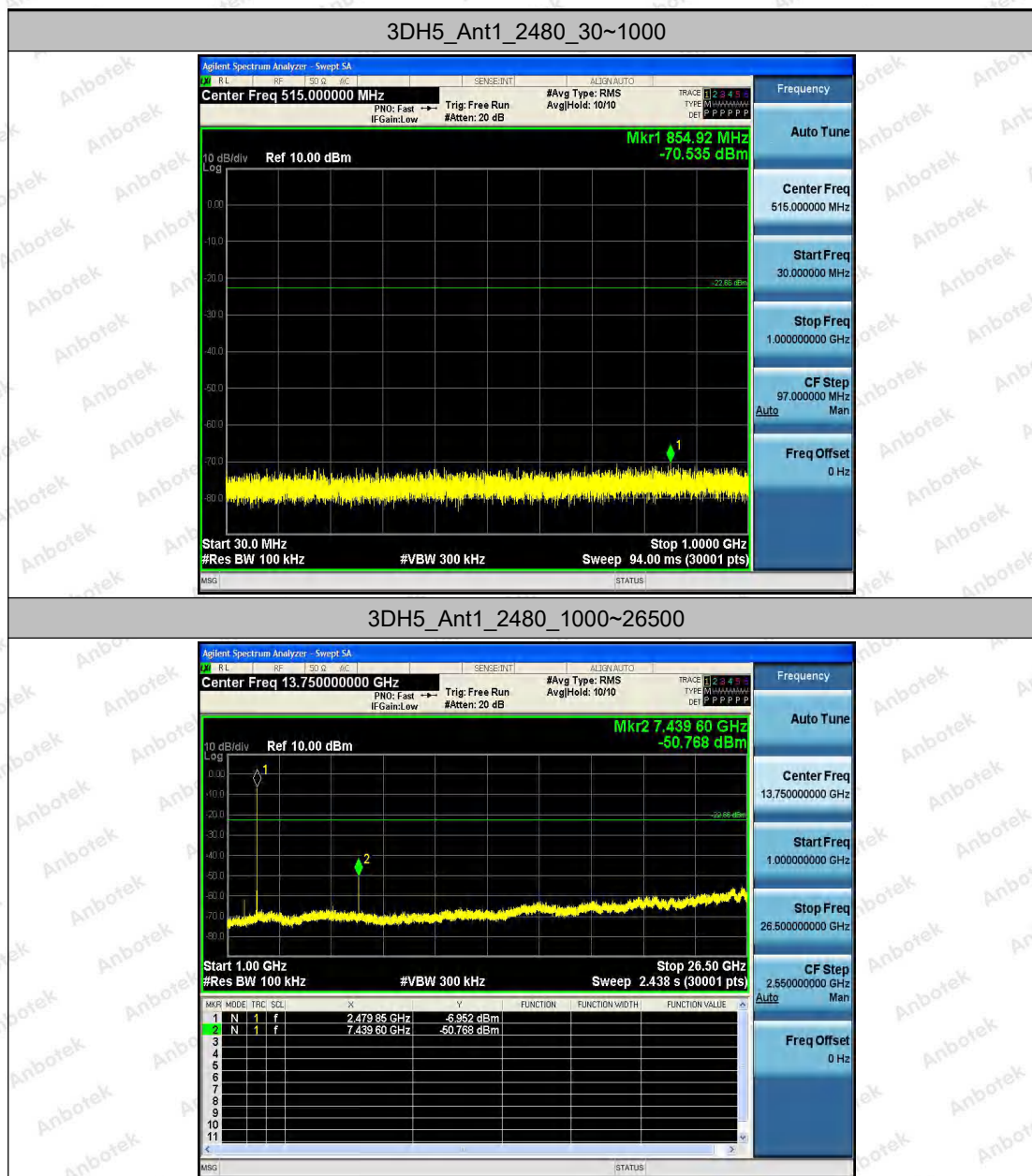


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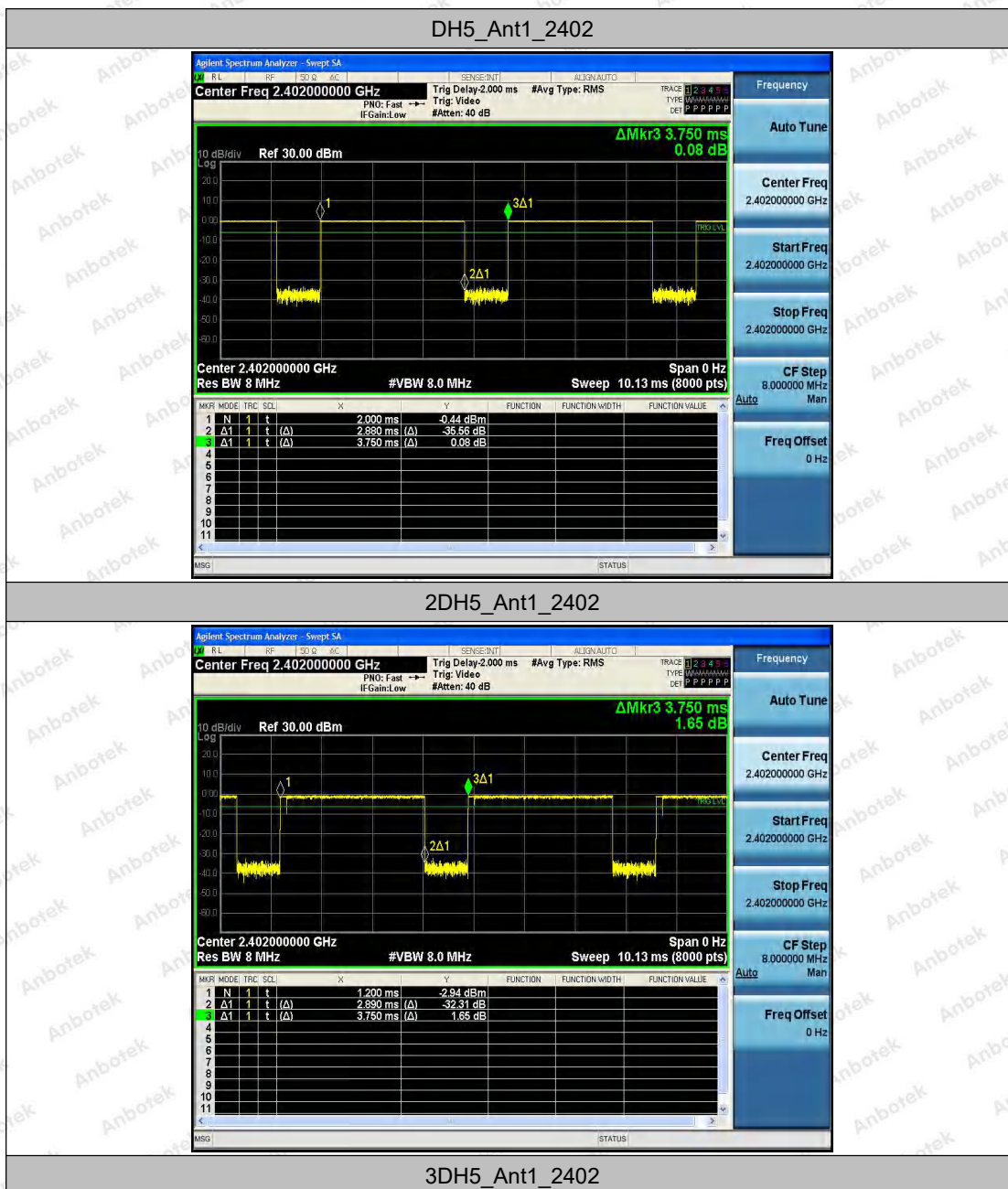
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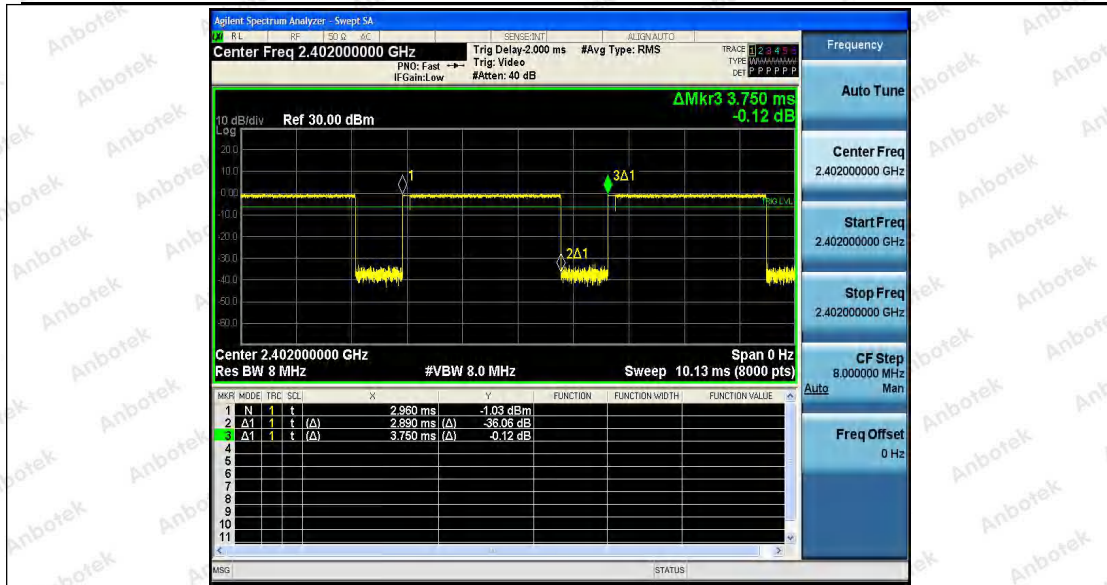
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---