

Appendix Test Data

Report No.:	18220WC20027401	Test Sample No.:	1-2-2
Start Test Date:	2022.2.22	Finish Test Date:	2022.2.24
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56 %
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	0.945	2401.541	2402.486	---	PASS
		2441	0.939	2440.541	2441.480	---	PASS
		2480	0.942	2479.544	2480.486	---	PASS
2DH5	Ant1	2402	1.263	2401.373	2402.636	---	PASS
		2441	1.290	2440.367	2441.657	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS
3DH5	Ant1	2402	1.302	2401.349	2402.651	---	PASS
		2441	1.314	2440.346	2441.660	---	PASS
		2480	1.263	2479.358	2480.621	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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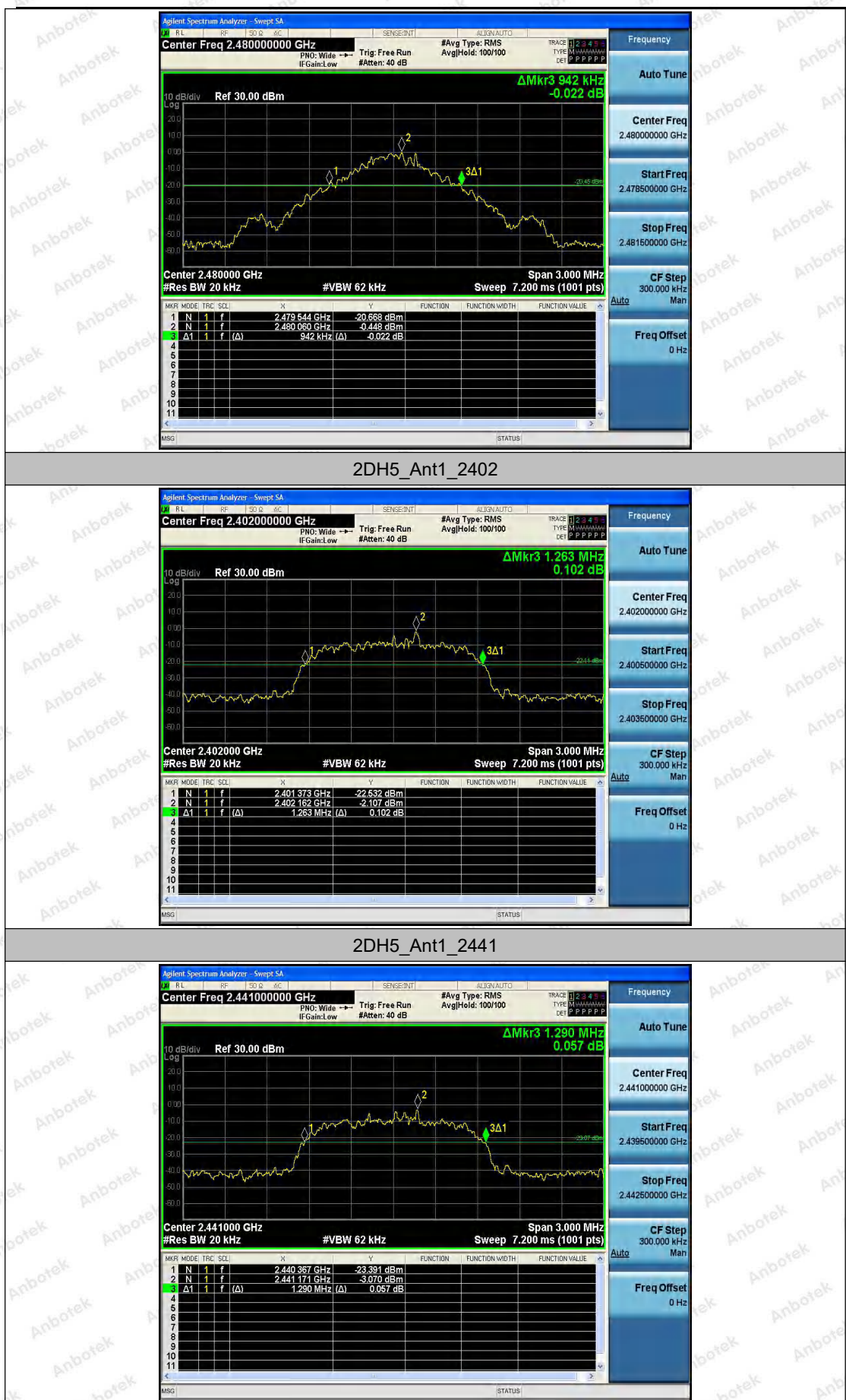
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2DH5_Ant1_2480



3DH5_Ant1_2402



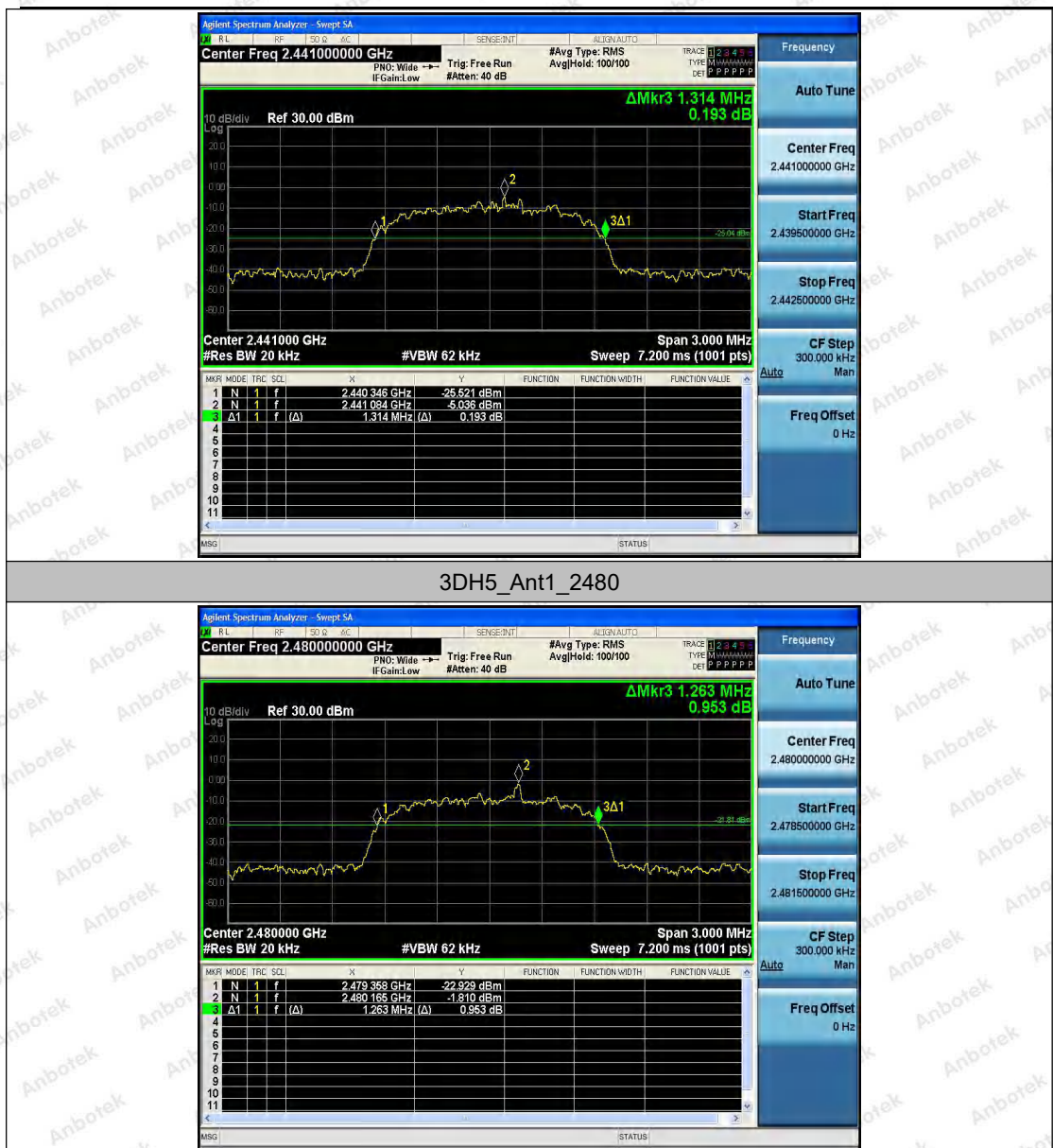
3DH5_Ant1_2441

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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	0.88981	2401.55 8	2402.448	---	PASS
		2441	0.89753	2440.55 4	2441.452	---	PASS
		2480	0.89228	2479.55 8	2480.450	---	PASS
2DH5	Ant1	2402	1.1934	2401.40 5	2402.598	---	PASS
		2441	1.2006	2440.40 2	2441.603	---	PASS
		2480	1.1962	2479.40 3	2480.600	---	PASS
3DH5	Ant1	2402	1.2035	2401.39 3	2402.596	---	PASS
		2441	1.2088	2440.39 0	2441.599	---	PASS
		2480	1.2064	2479.39 1	2480.597	---	PASS

Test Graphs

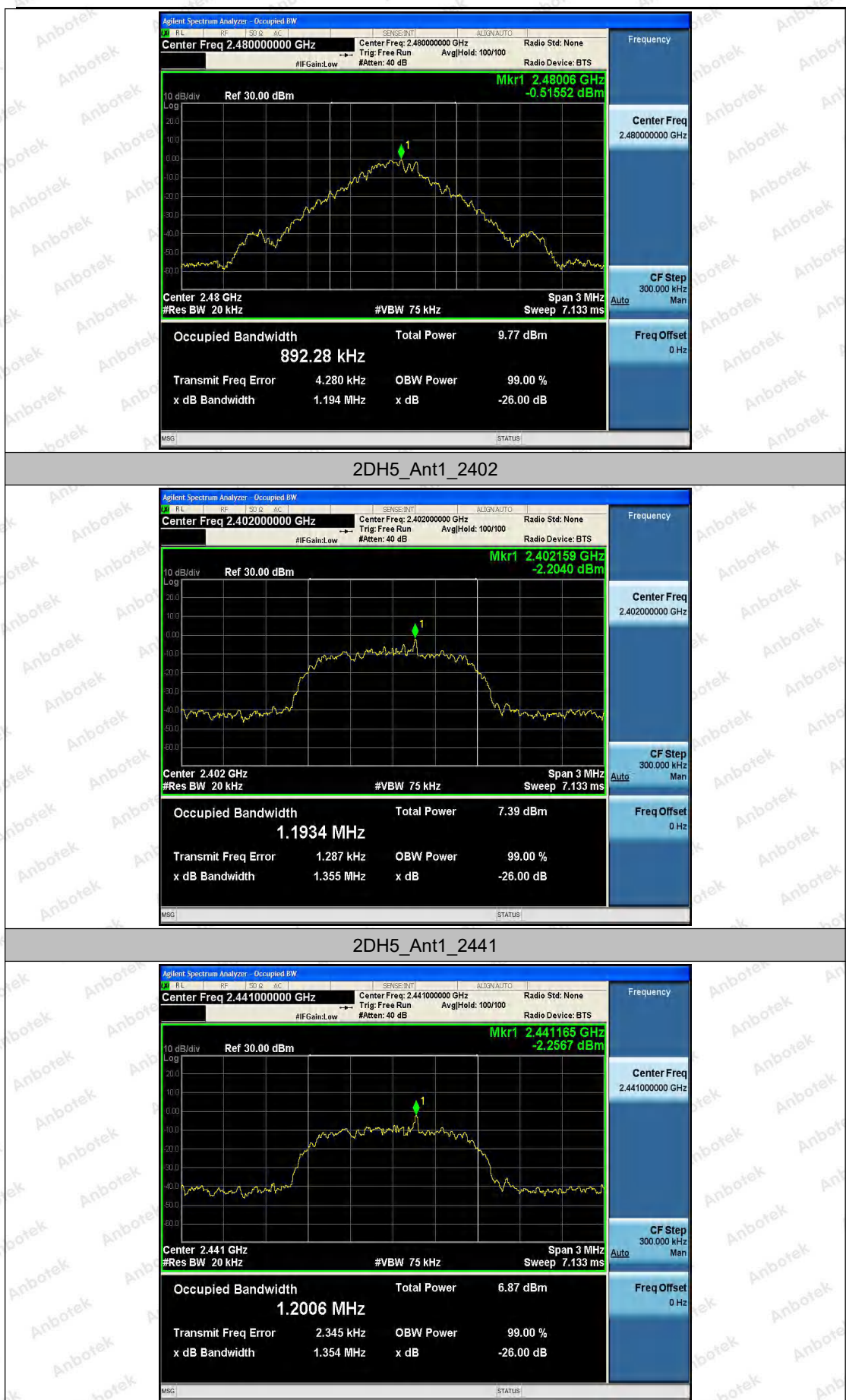


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2DH5_Ant1_2480



3DH5_Ant1_2402



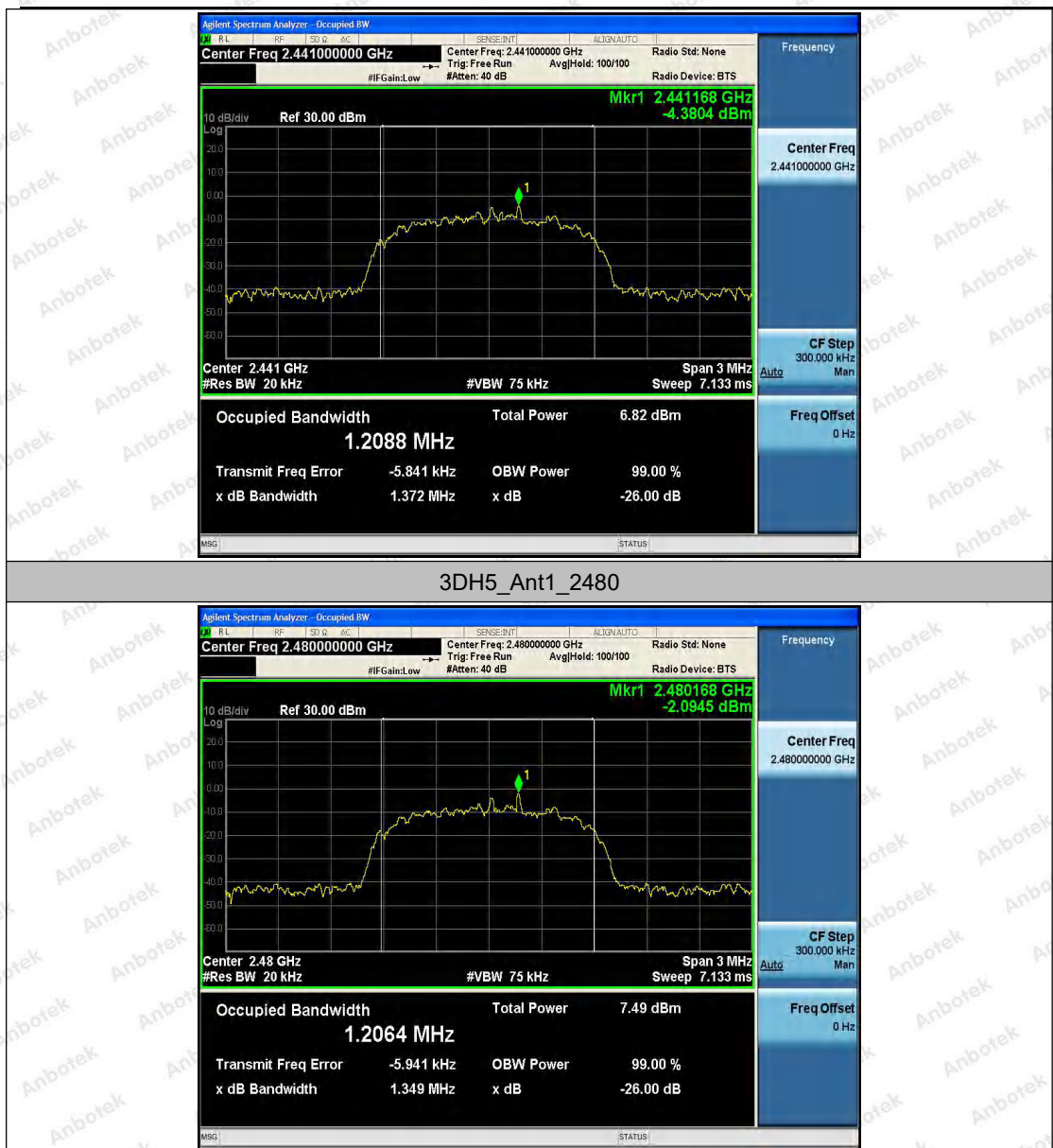
3DH5_Ant1_2441

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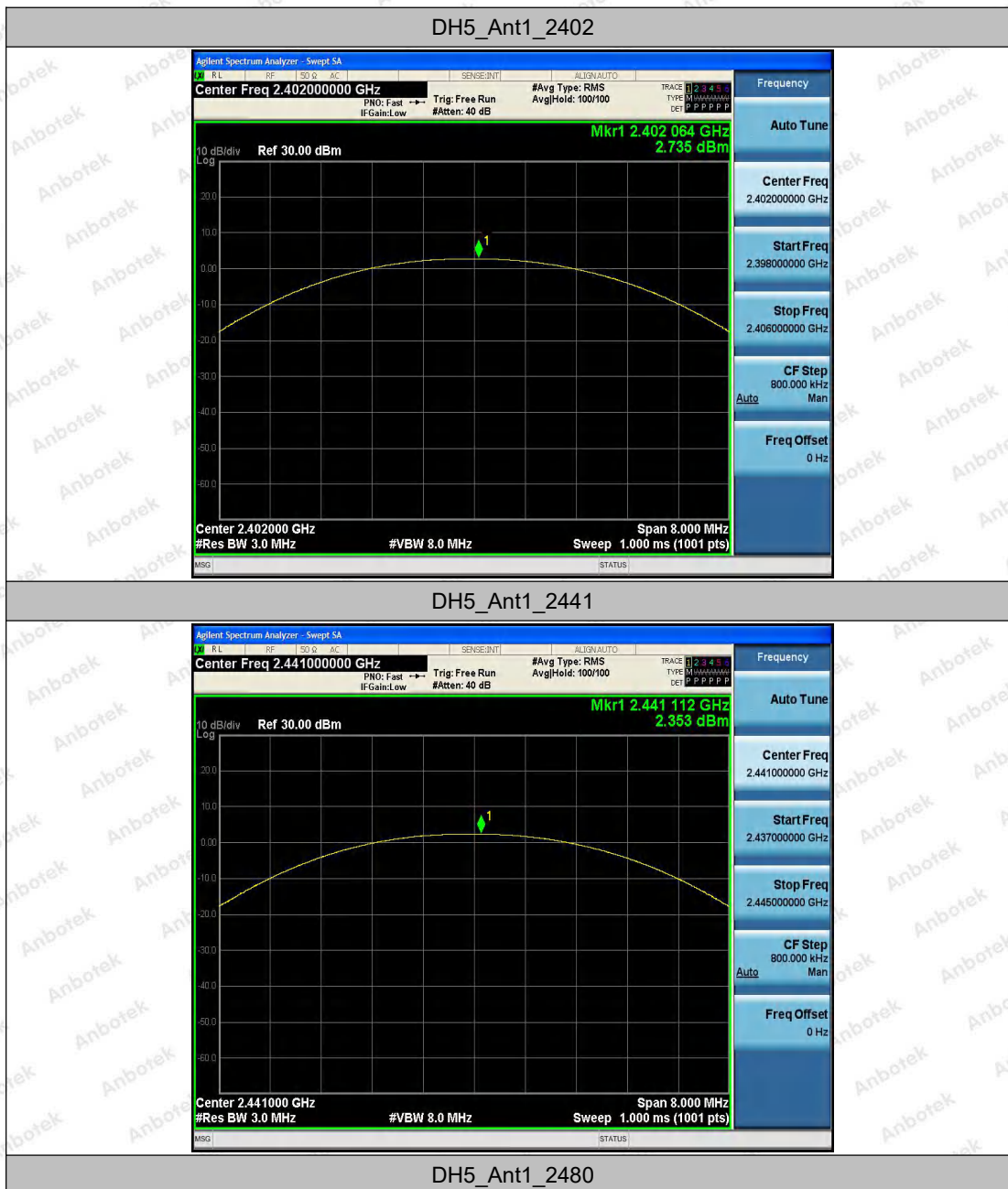
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.74	≤20.97	PASS
		2441	2.35	≤20.97	PASS
		2480	3.16	≤20.97	PASS
2DH5	Ant1	2402	2.2	≤20.97	PASS
		2441	1.75	≤20.97	PASS
		2480	2.52	≤20.97	PASS
3DH5	Ant1	2402	2.35	≤20.97	PASS
		2441	1.9	≤20.97	PASS
		2480	2.67	≤20.97	PASS

Test Graphs

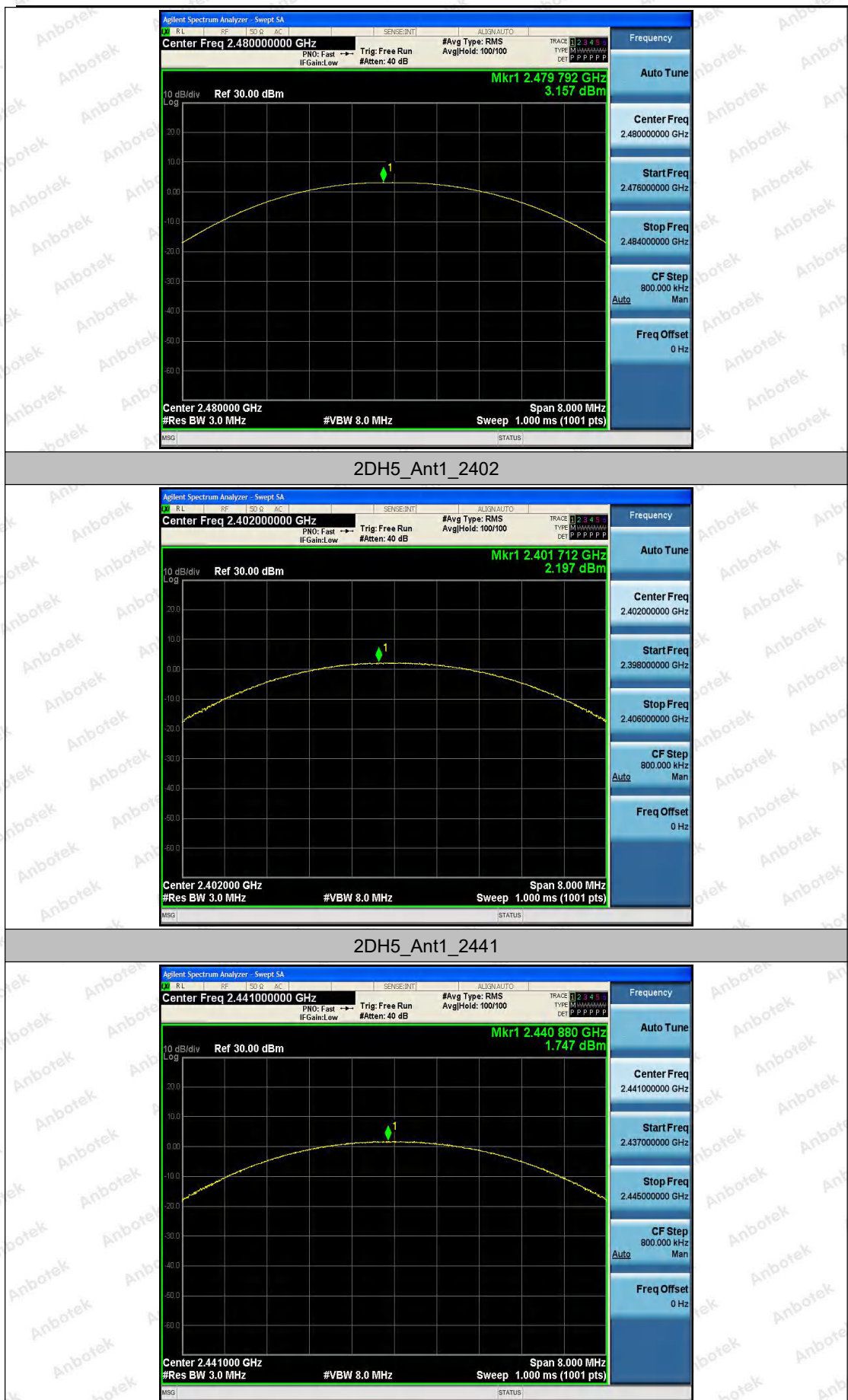


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2DH5_Ant1_2480



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	0.992	≥ 0.945	PASS
2DH5	Ant1	Hop	0.904	≥ 0.878	PASS
3DH5	Ant1	Hop	1.162	≥ 0.876	PASS

Test Graphs



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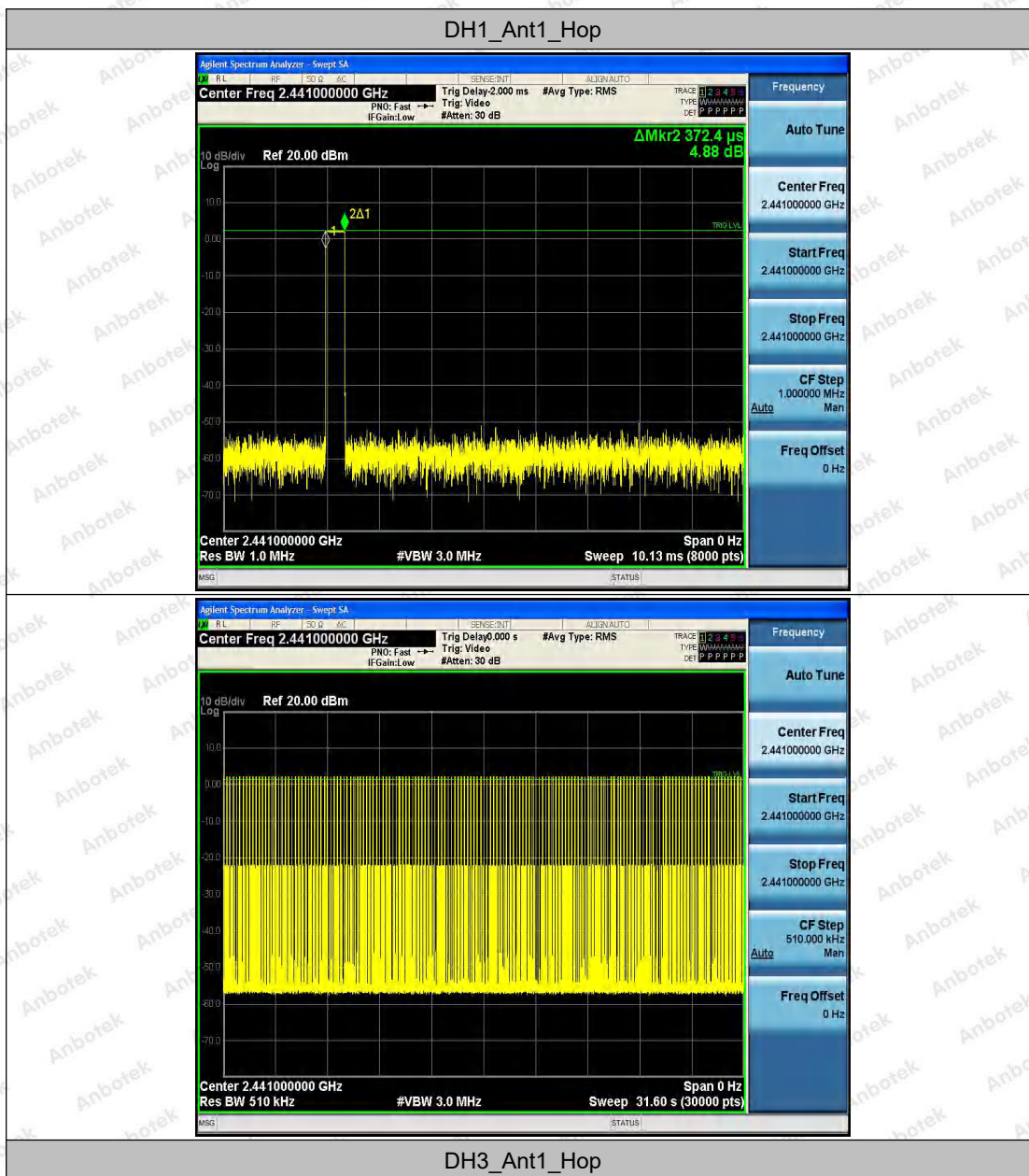
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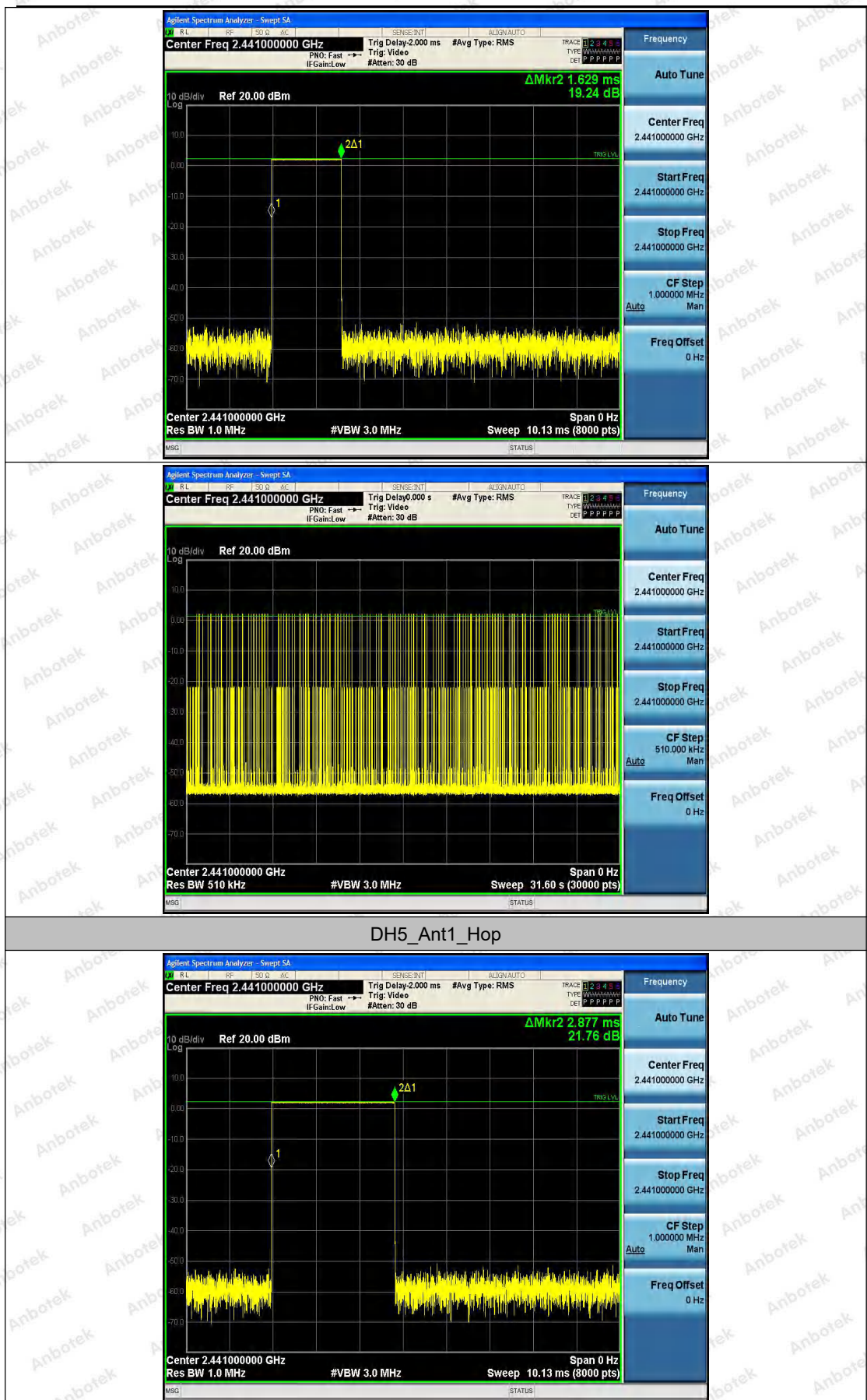
Appendix E: Time of occupancy

Test Result

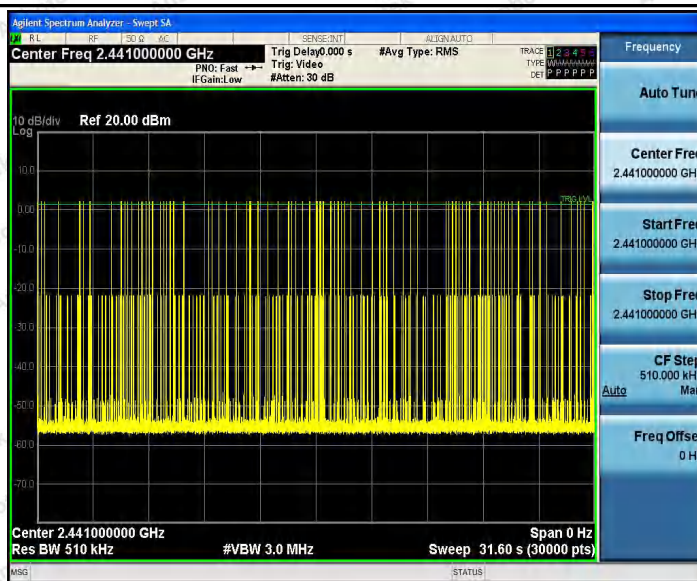
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	156	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	115	0.331	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.88	112	0.323	≤0.4	PASS

Test Graphs

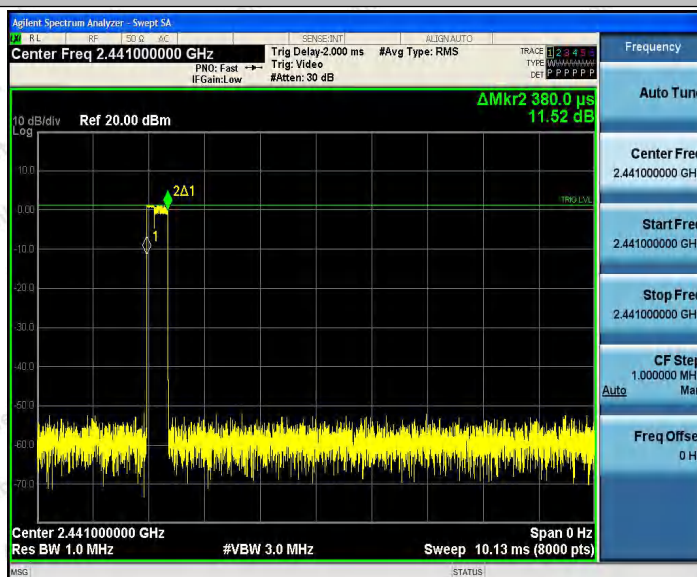




DH5_Ant1_Hop



2DH1_Ant1_Hop



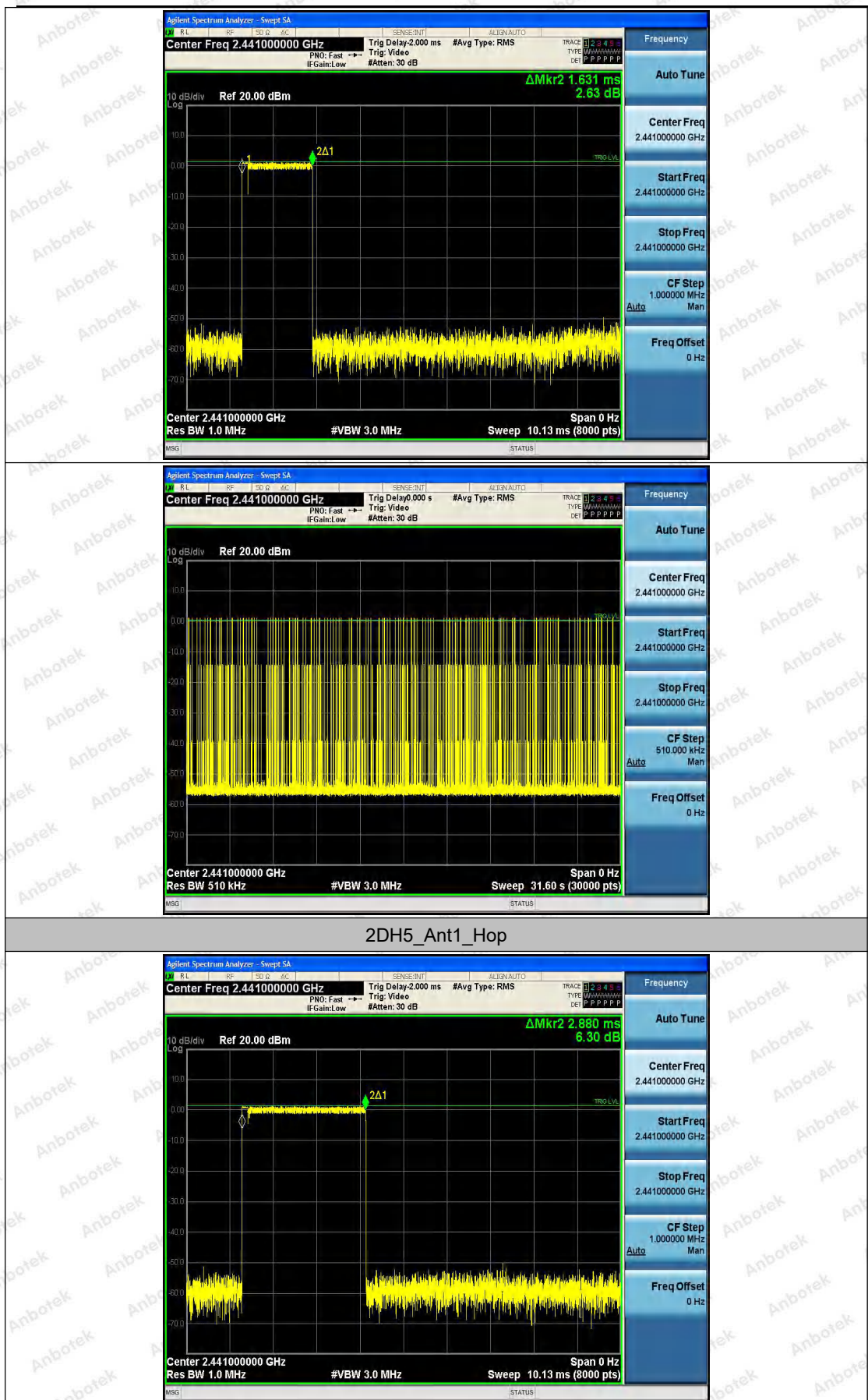
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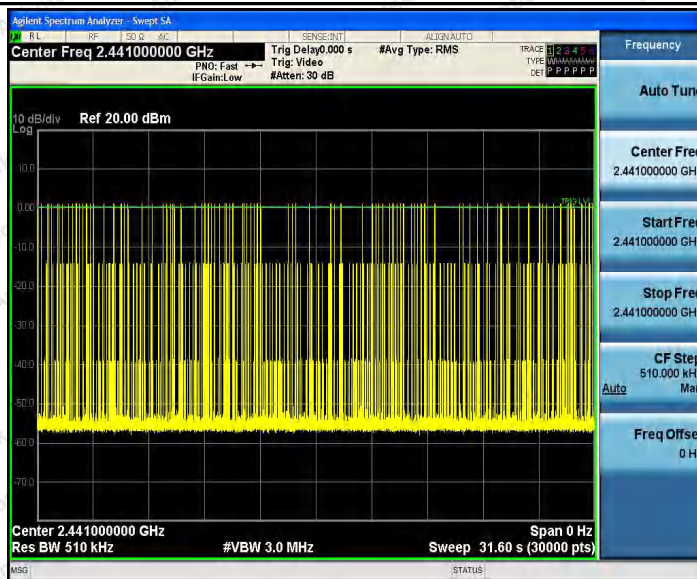
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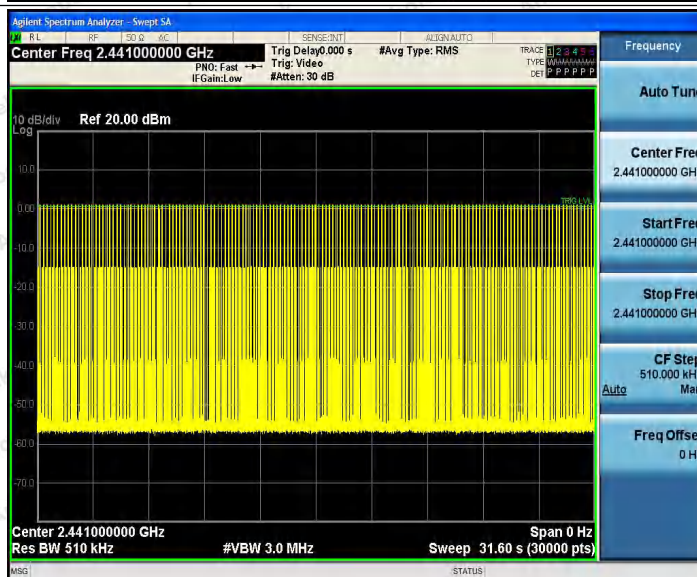
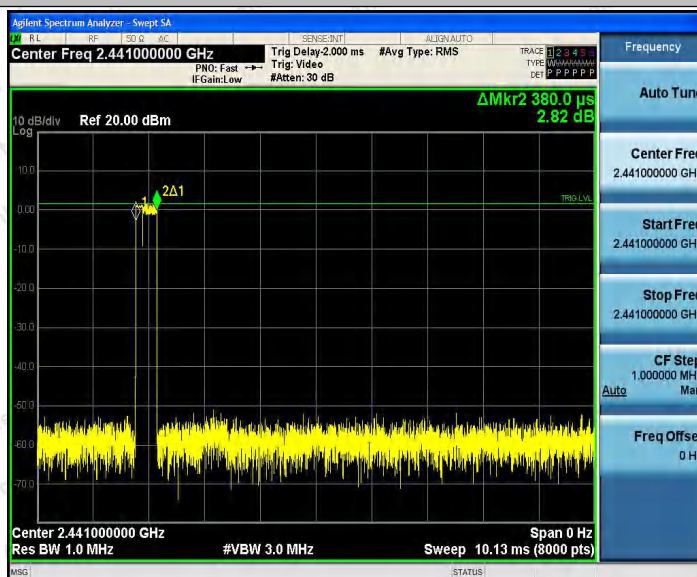
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3DH1_Ant1_Hop



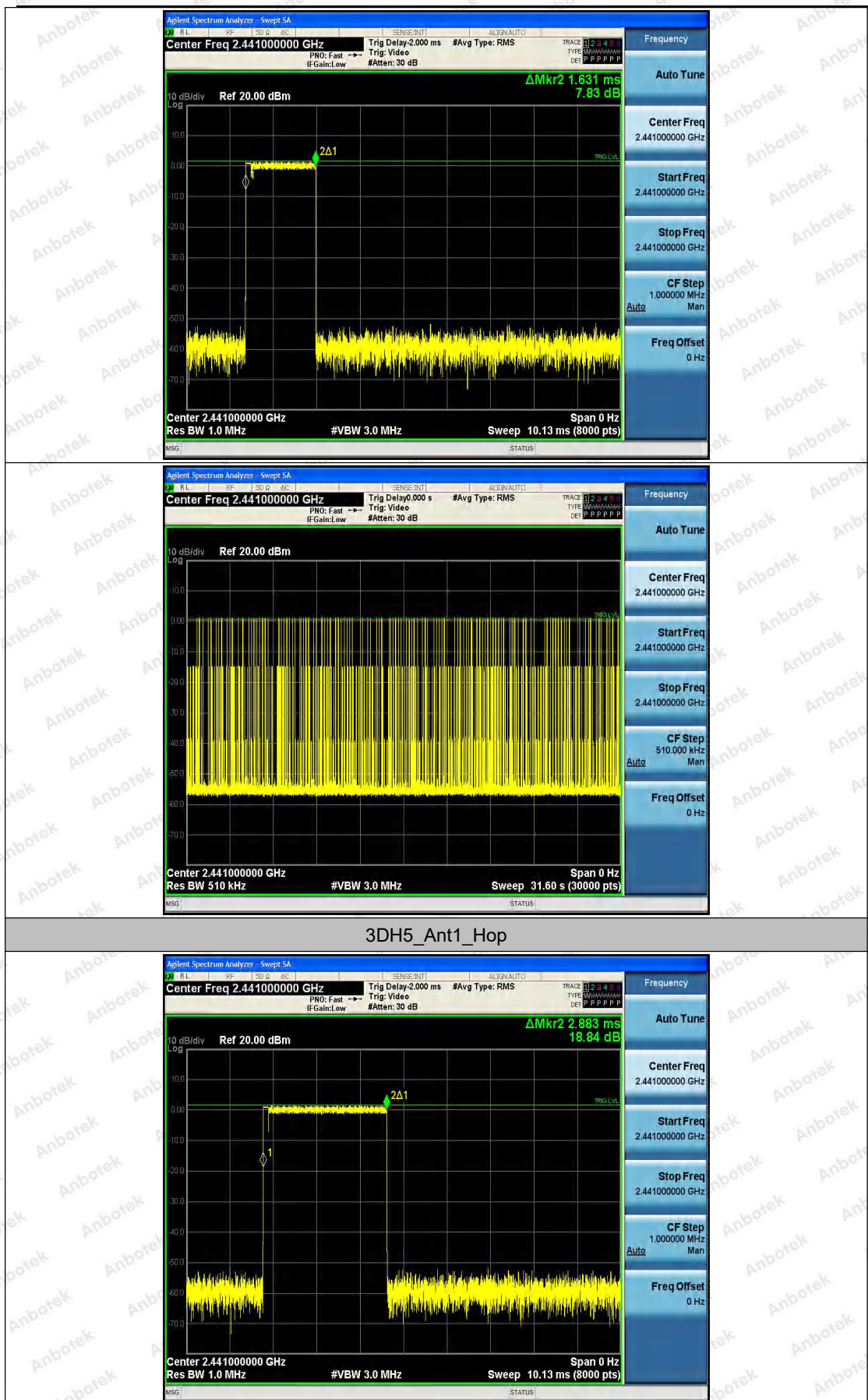
3DH3_Ant1_Hop

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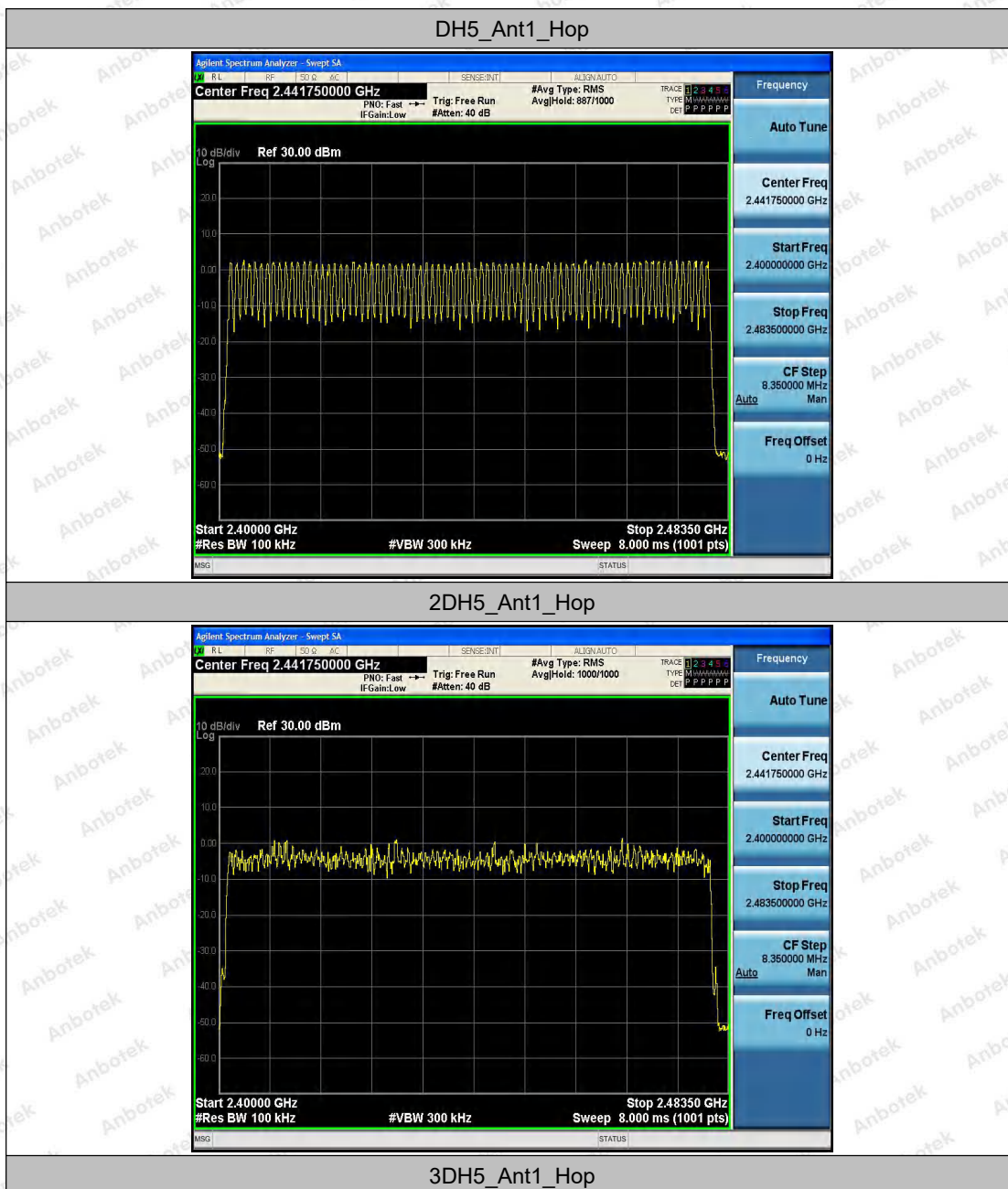
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Appendix F: Number of hopping channels

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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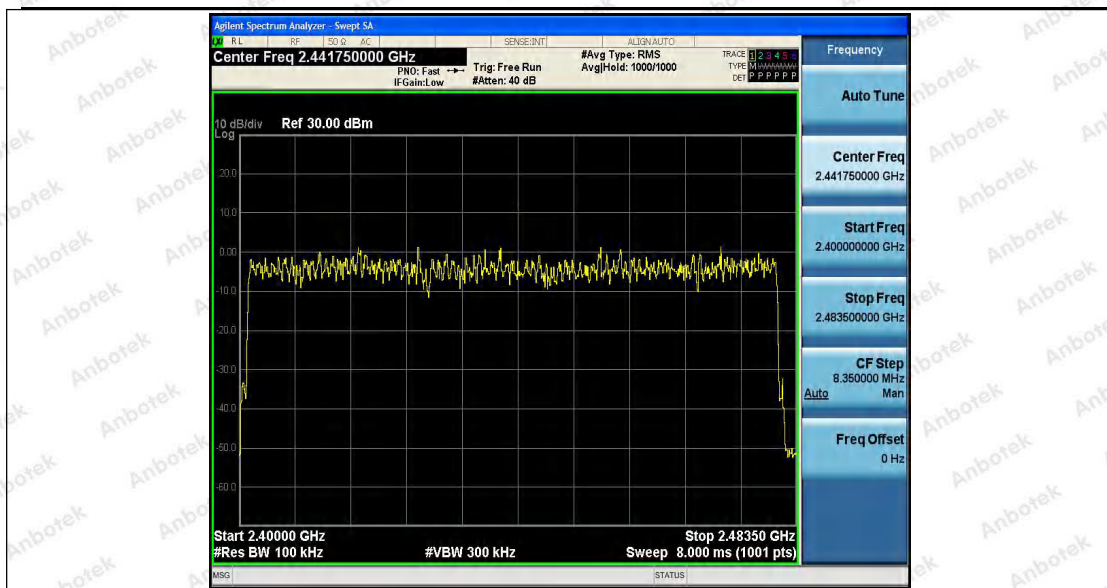
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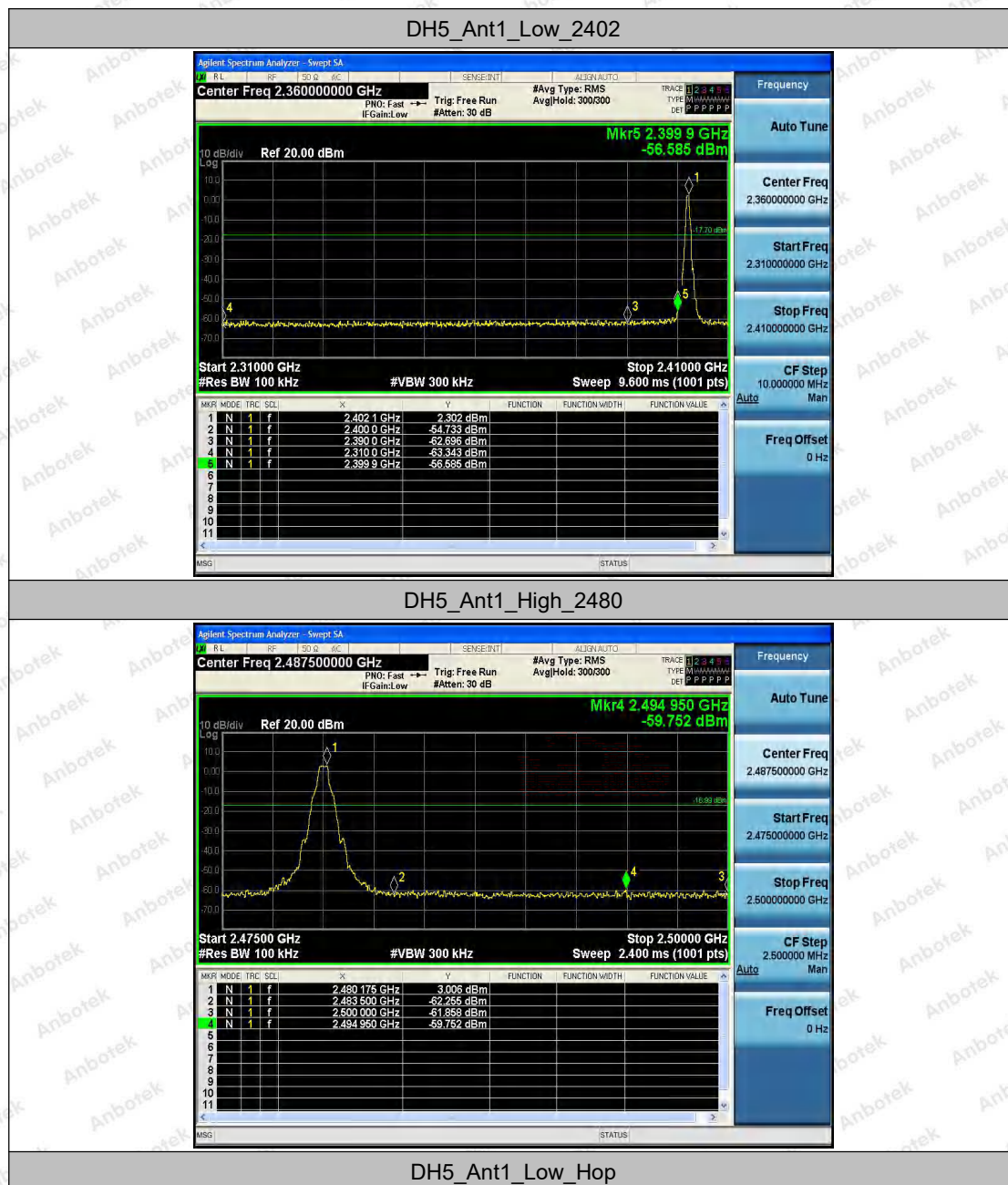
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Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.30	-56.59	≤ -17.7	PASS
		High	2480	3.01	-59.75	≤ -16.99	PASS
		Low	Hop	2.31	-60.48	≤ -17.69	PASS
		High	Hop	2.79	-61.8	≤ -17.21	PASS
2DH5	Ant1	Low	2402	1.10	-54.74	≤ -18.9	PASS
		High	2480	1.77	-59.18	≤ -18.23	PASS
		Low	Hop	-1.31	-60.38	≤ -21.31	PASS
		High	Hop	-1.91	-62.55	≤ -21.91	PASS
3DH5	Ant1	Low	2402	0.47	-54.58	≤ -19.53	PASS
		High	2480	1.68	-59.74	≤ -18.32	PASS
		Low	Hop	-0.24	-59.87	≤ -20.24	PASS
		High	Hop	-0.78	-62.73	≤ -20.78	PASS

Test Graphs

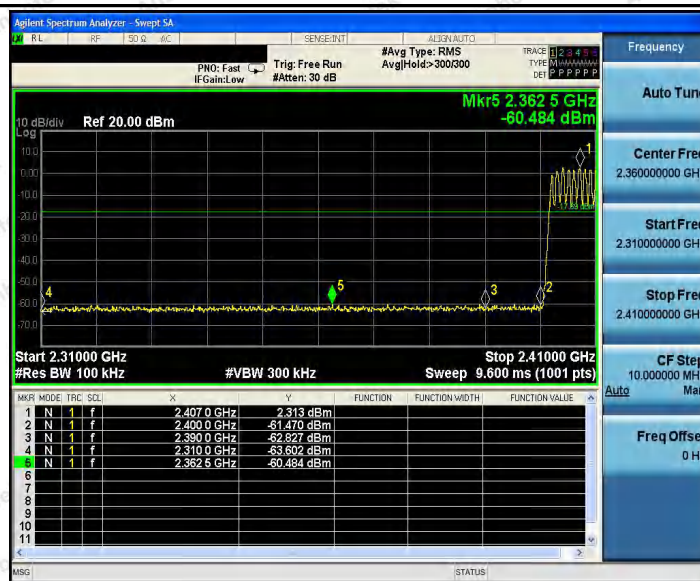


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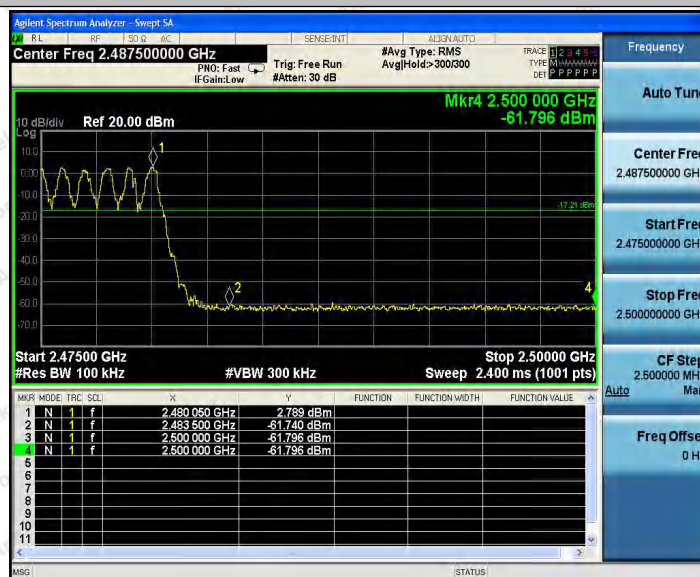
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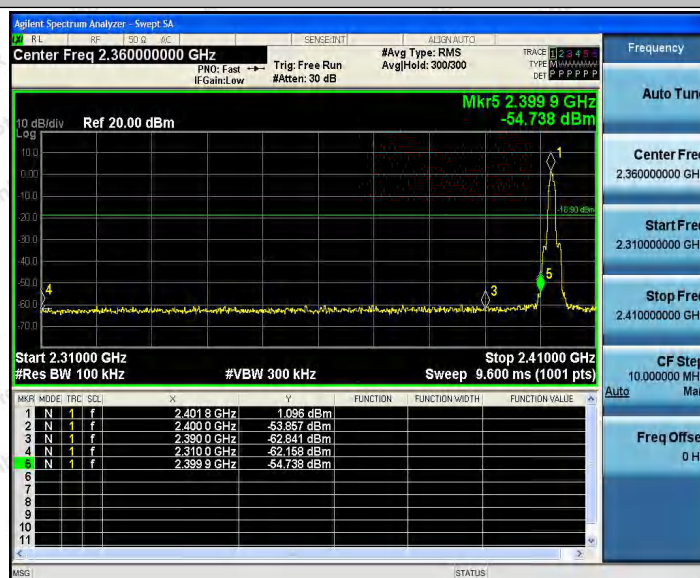
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



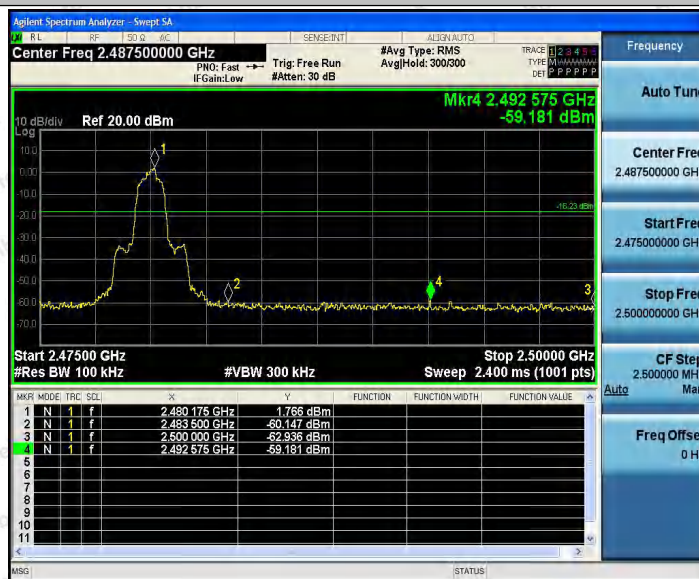
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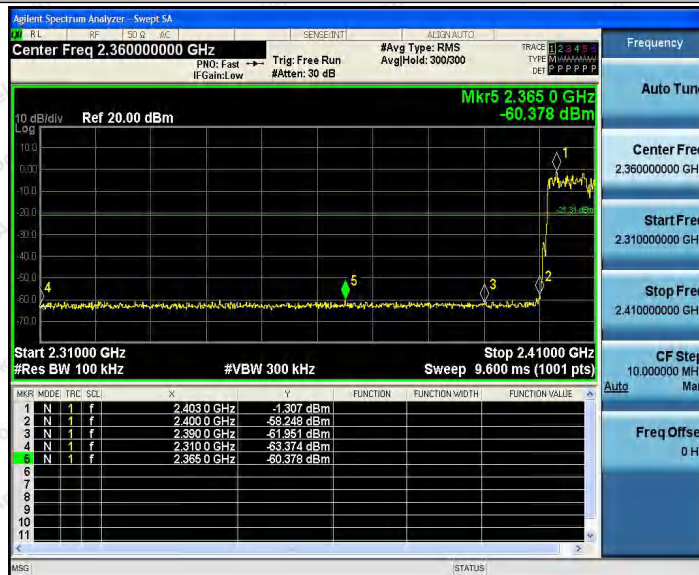
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



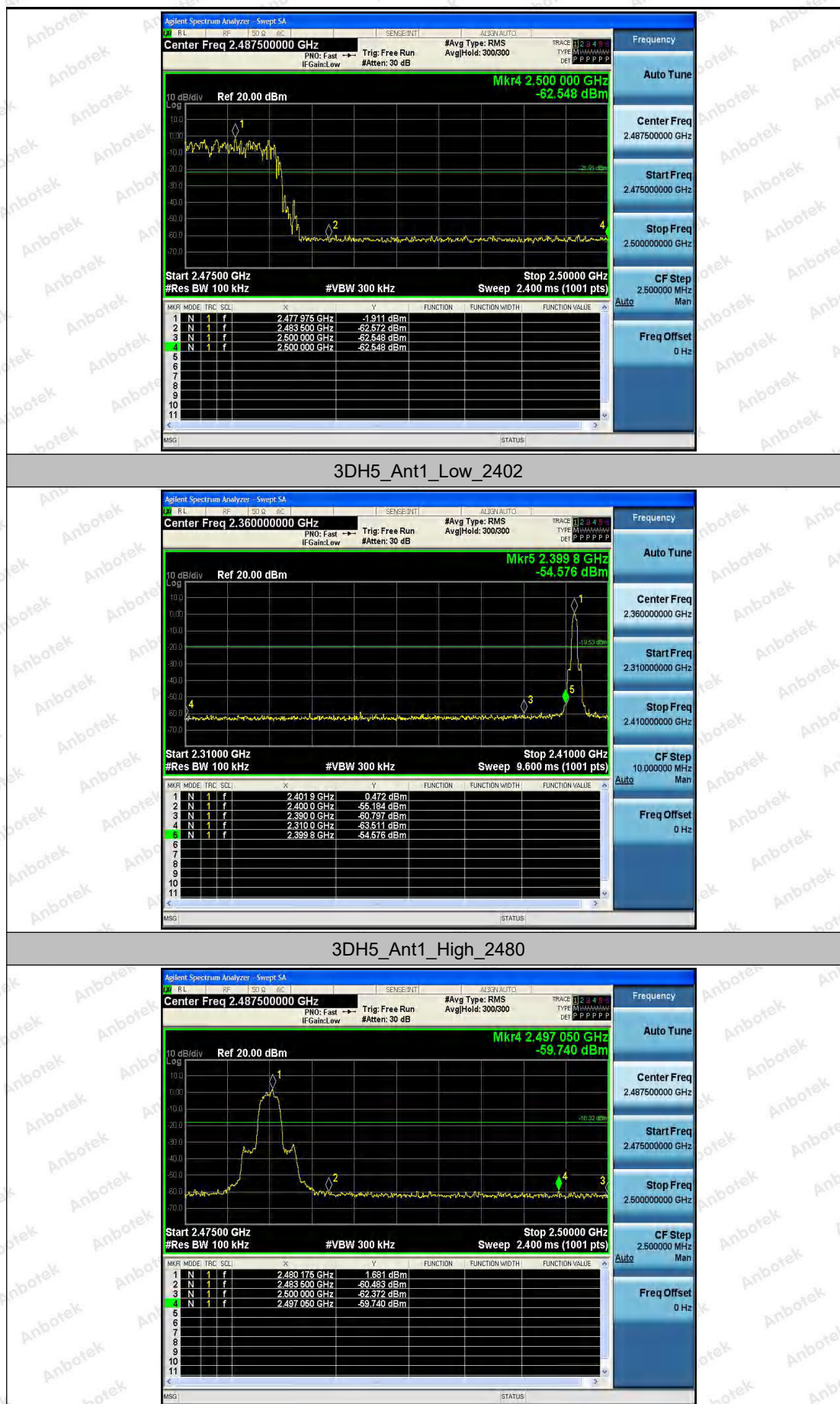
2DH5_Ant1_High_Hop

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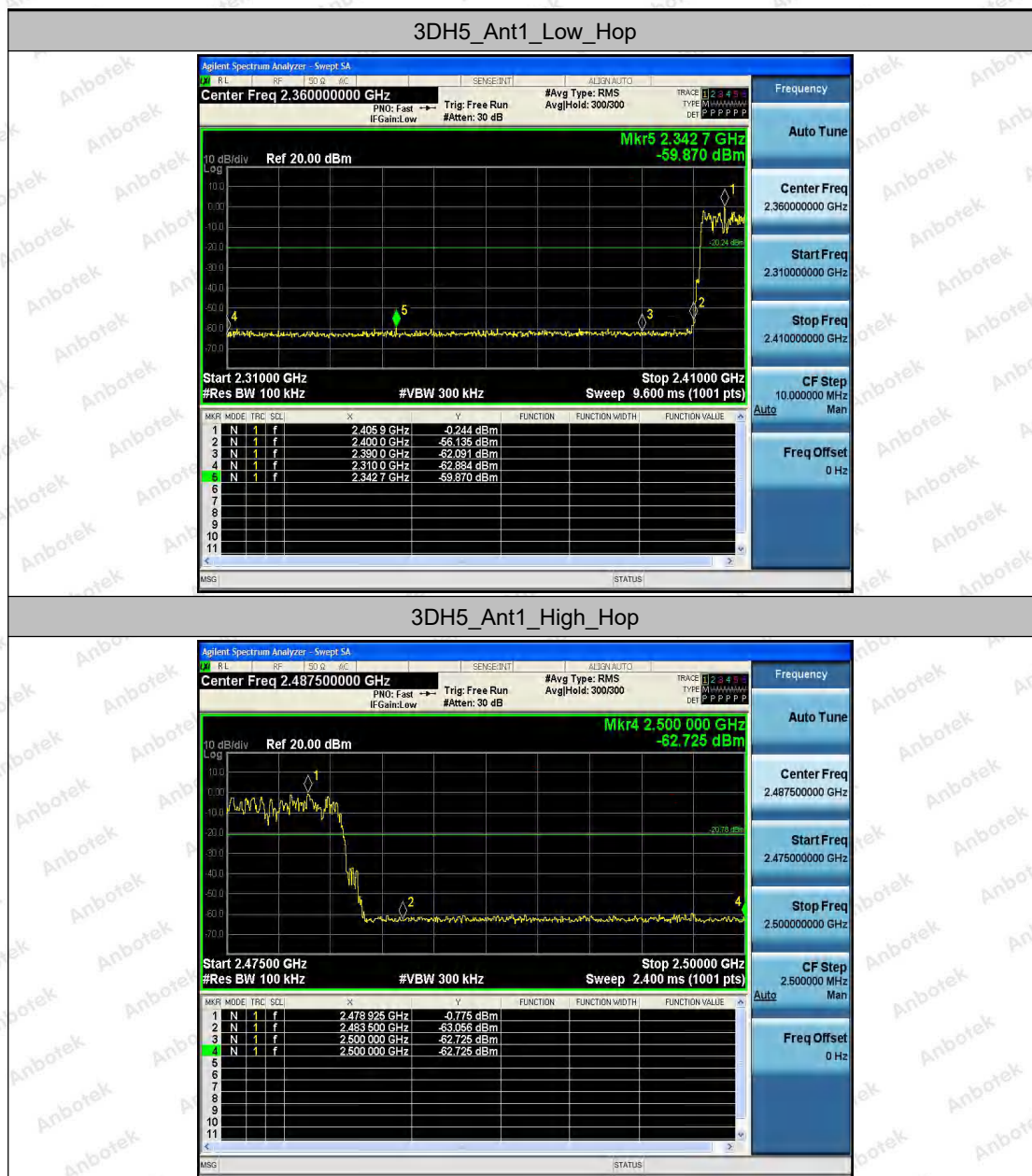


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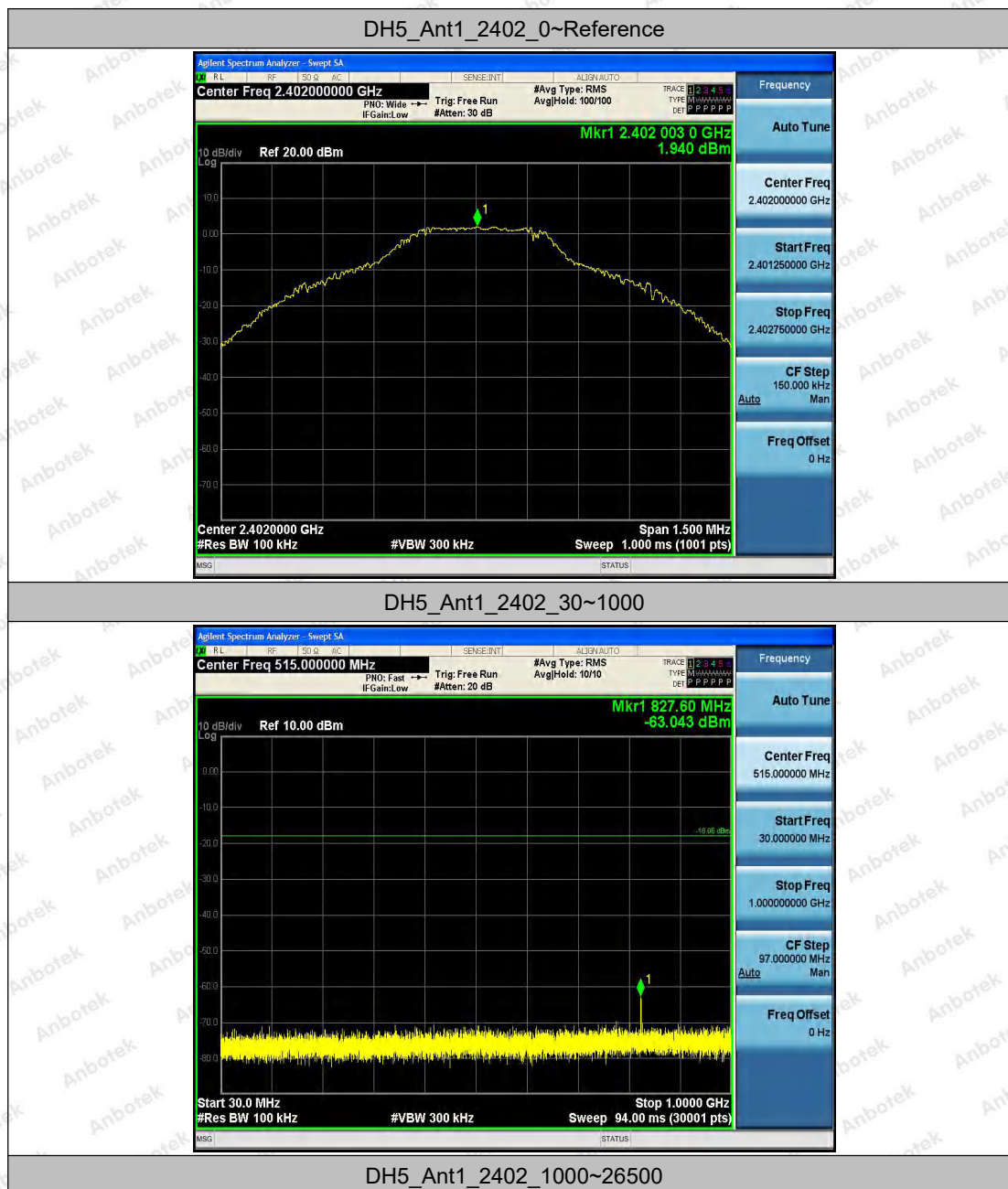
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-63.04	≤-18.06	PASS
			1000~26500	1.94	-56.14	≤-18.06	PASS
		2441	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-70.24	≤-18.36	PASS
			1000~26500	1.64	-55.54	≤-18.36	PASS
		2480	Reference	2.39	2.39	---	PASS
			30~1000	2.39	-63.09	≤-17.61	PASS
			1000~26500	2.39	-55.35	≤-17.61	PASS
2DH5	Ant1	2402	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-69.73	≤-18.96	PASS
			1000~26500	1.04	-55.26	≤-18.96	PASS
		2441	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-68.36	≤-19.44	PASS
			1000~26500	0.56	-56.16	≤-19.44	PASS
		2480	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-70.01	≤-19.03	PASS
			1000~26500	0.97	-55.21	≤-19.03	PASS
3DH5	Ant1	2402	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-65.14	≤-18.57	PASS
			1000~26500	1.44	-55.75	≤-18.57	PASS
		2441	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-68.96	≤-19.75	PASS
			1000~26500	0.26	-55.6	≤-19.75	PASS
		2480	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-69.7	≤-18.65	PASS
			1000~26500	1.35	-56.12	≤-18.65	PASS

Test Graphs



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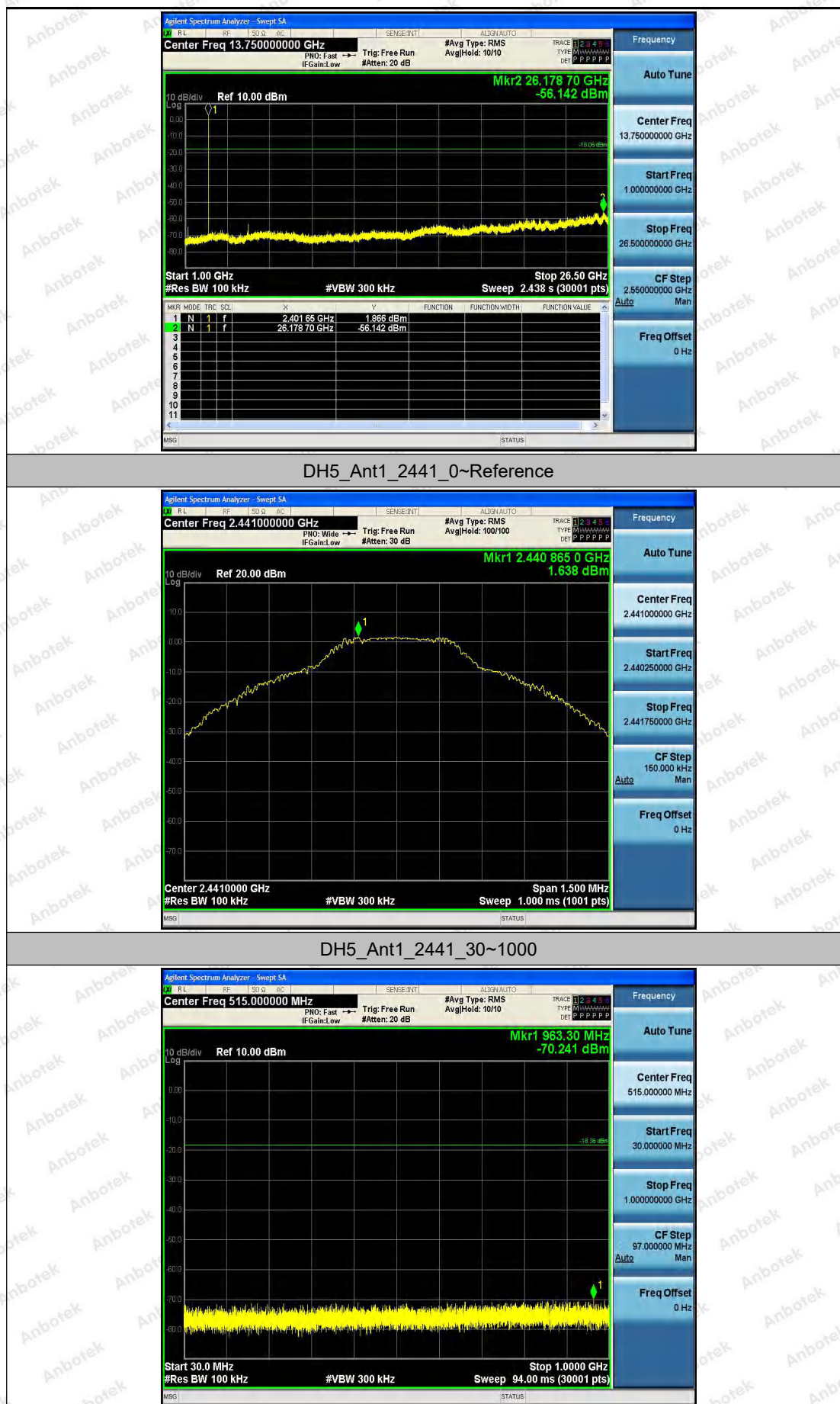
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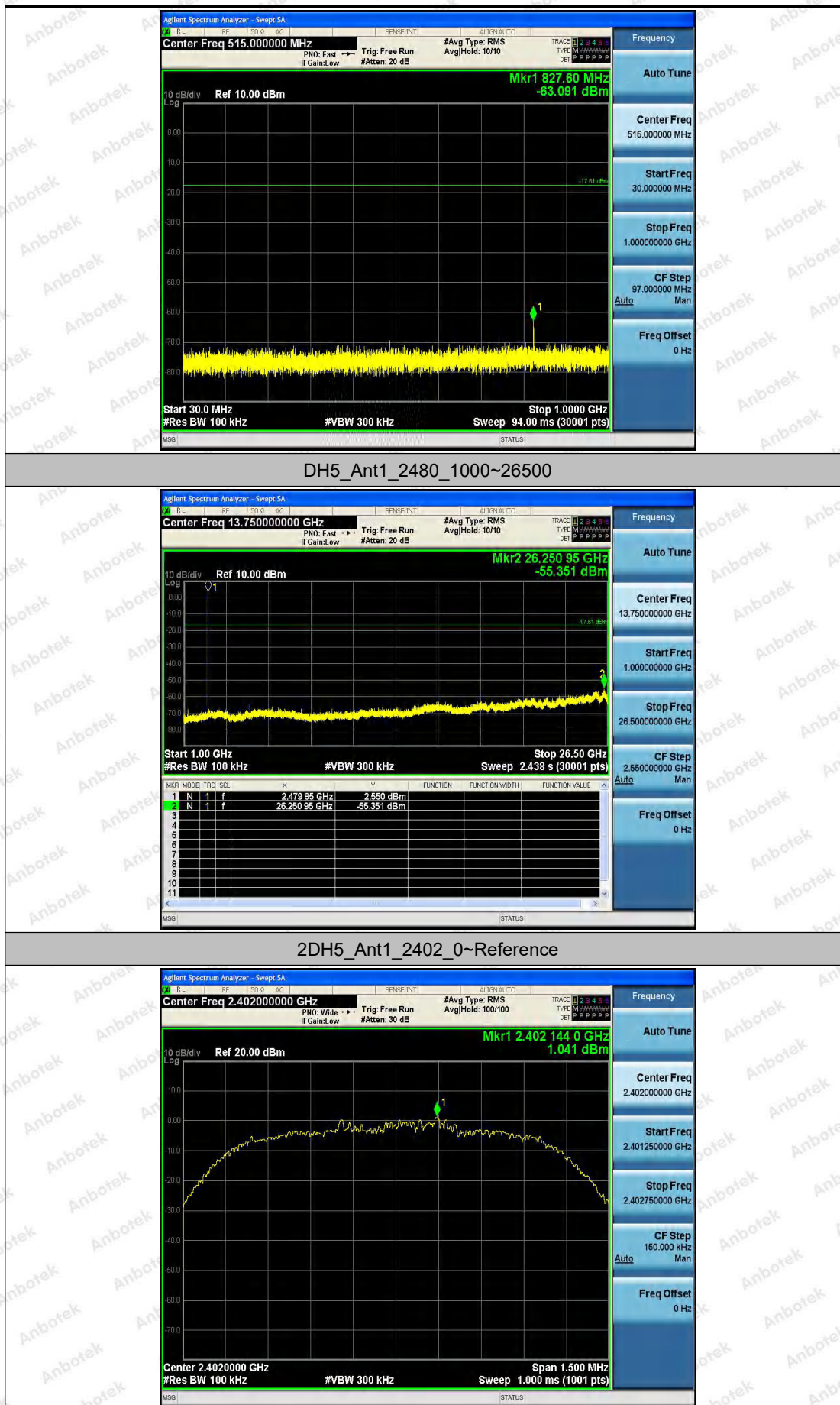
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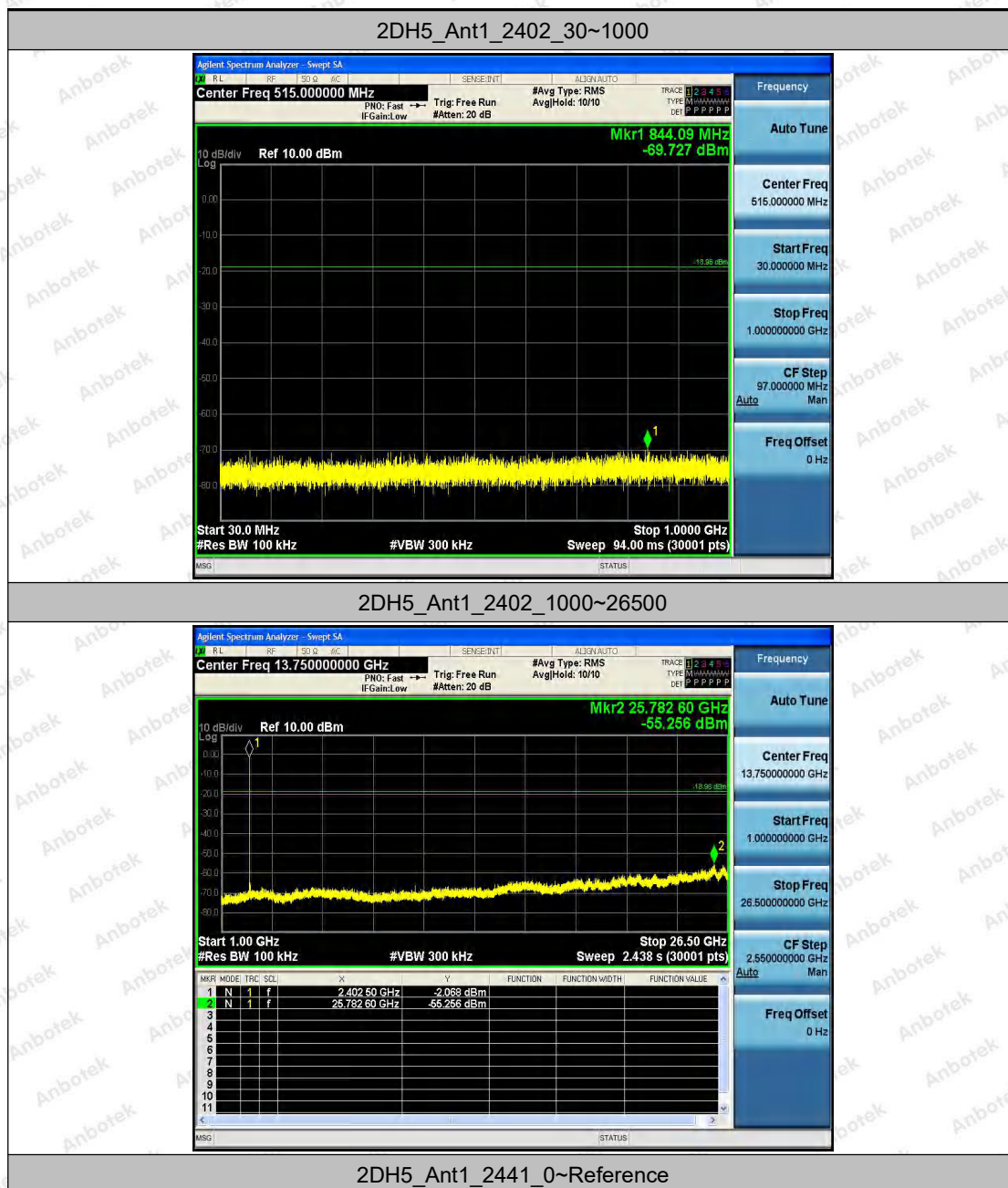


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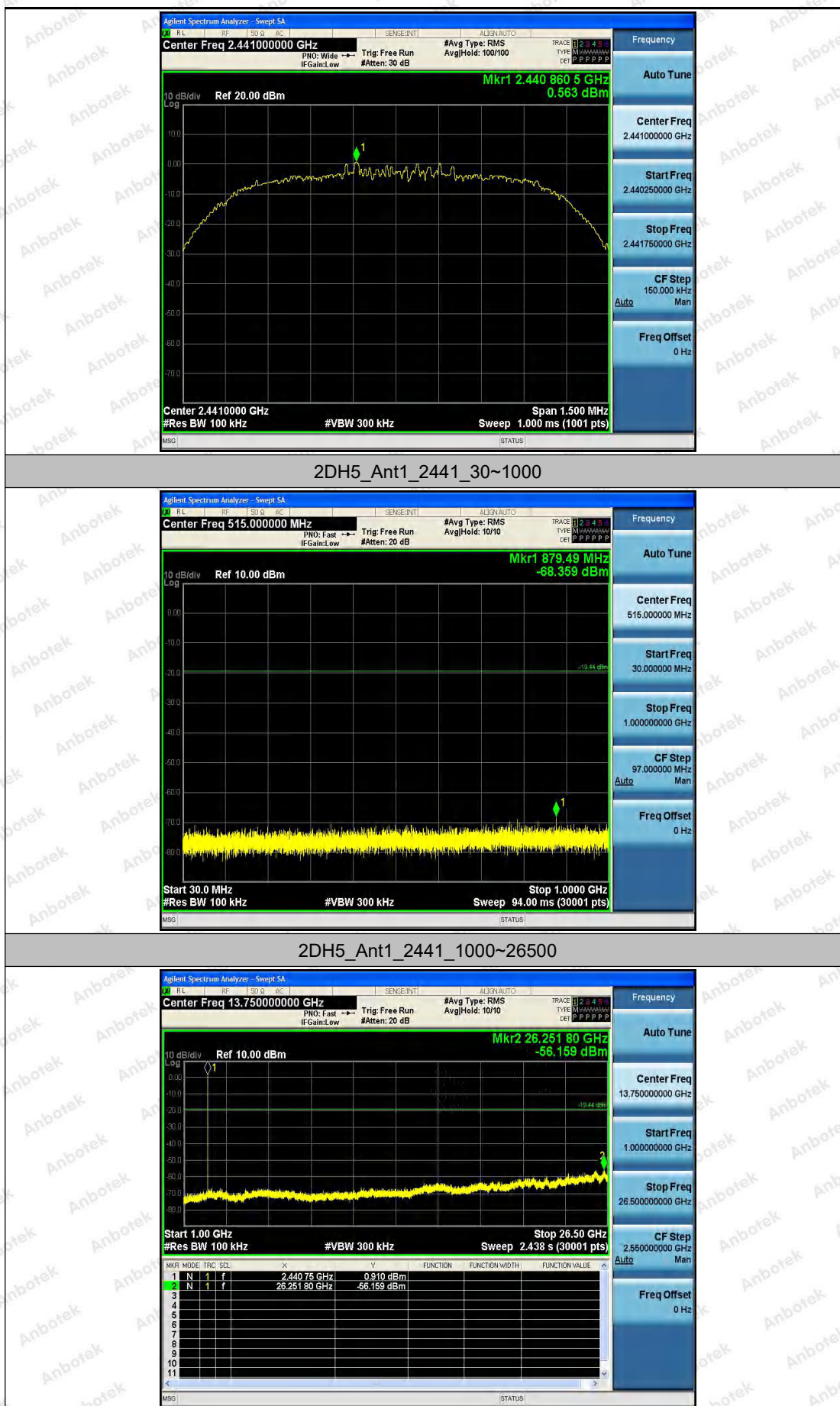


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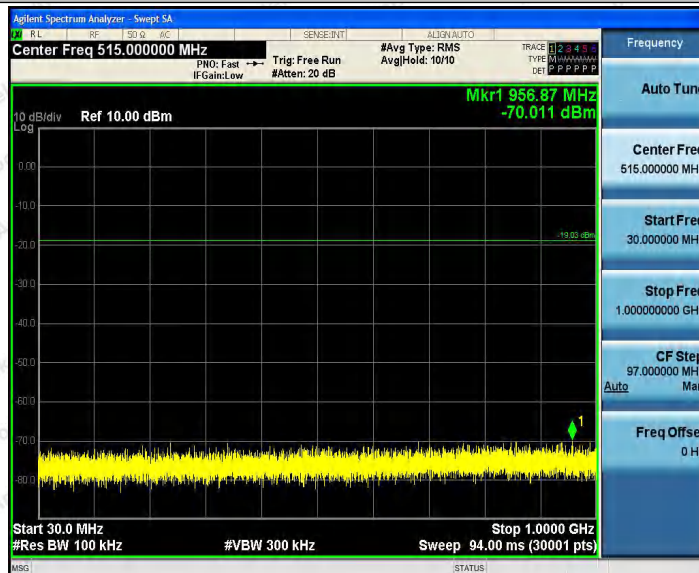
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



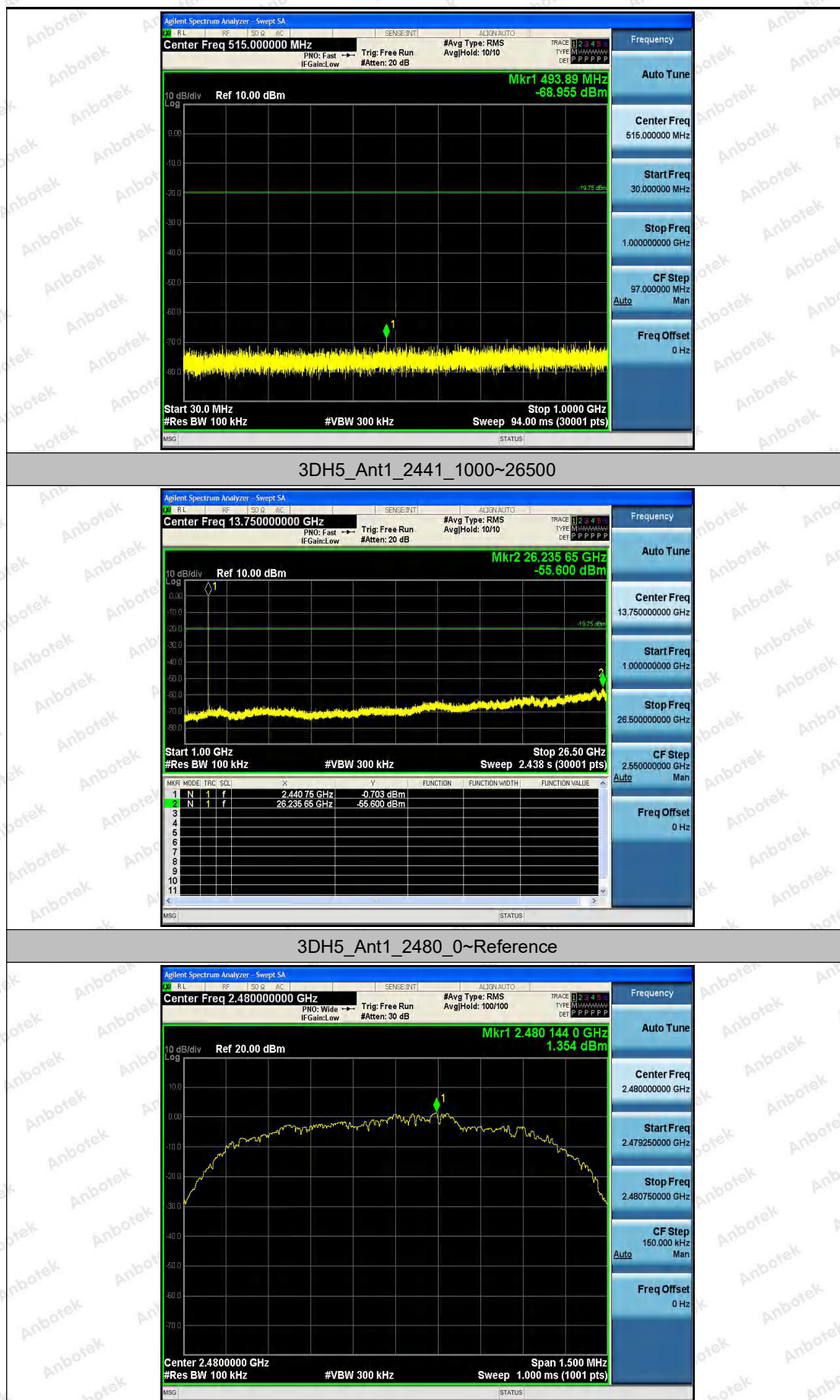
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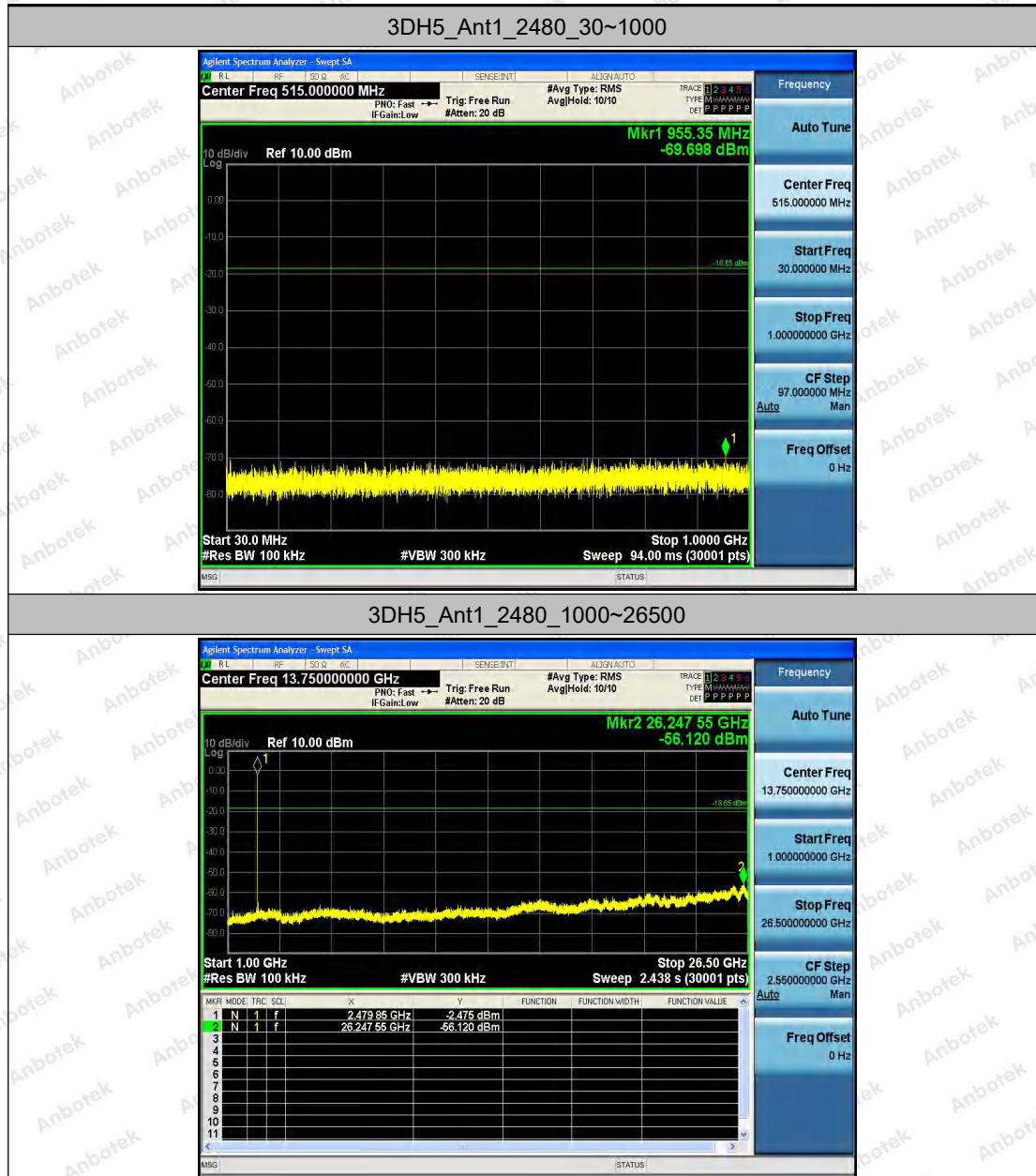


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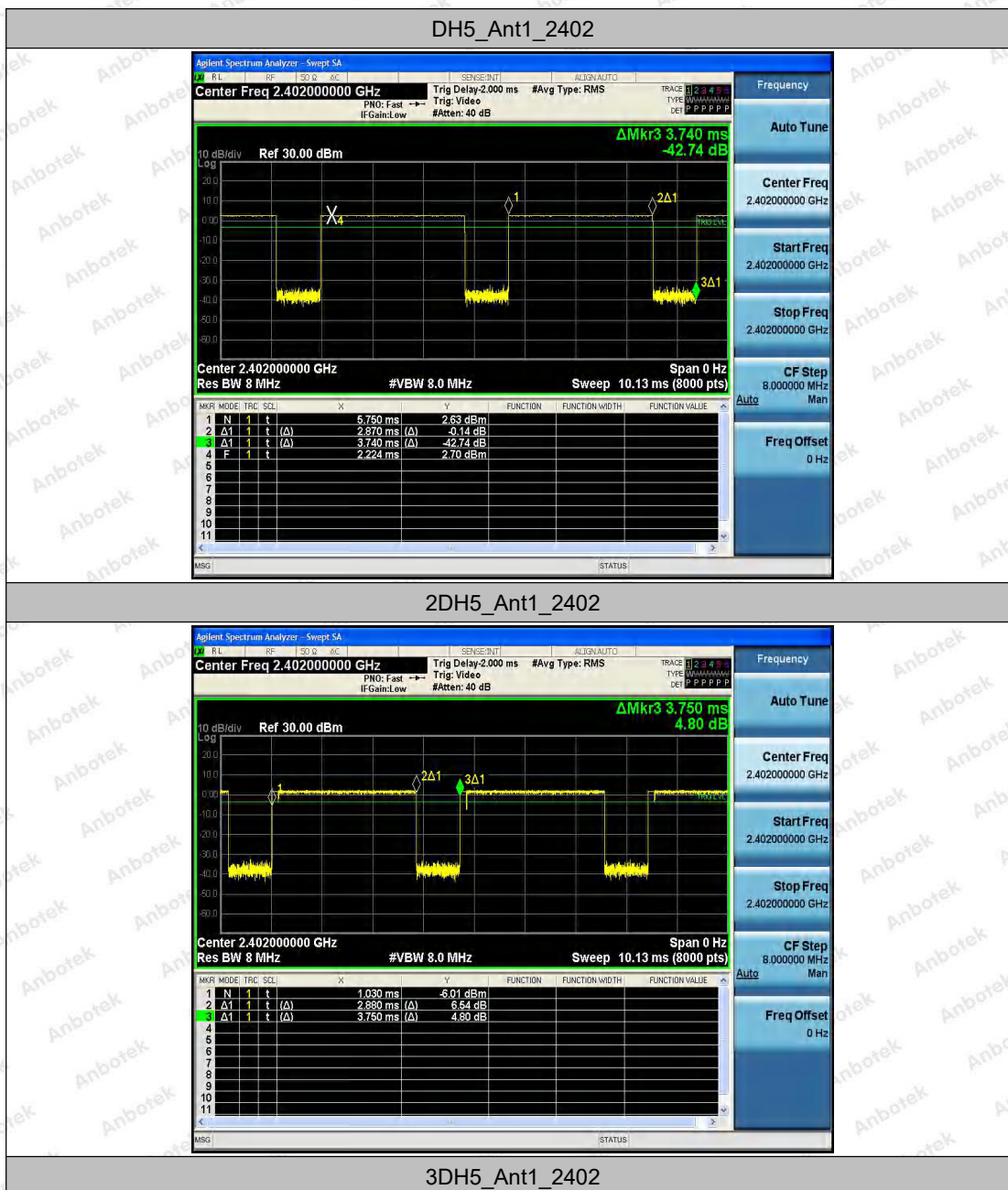
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

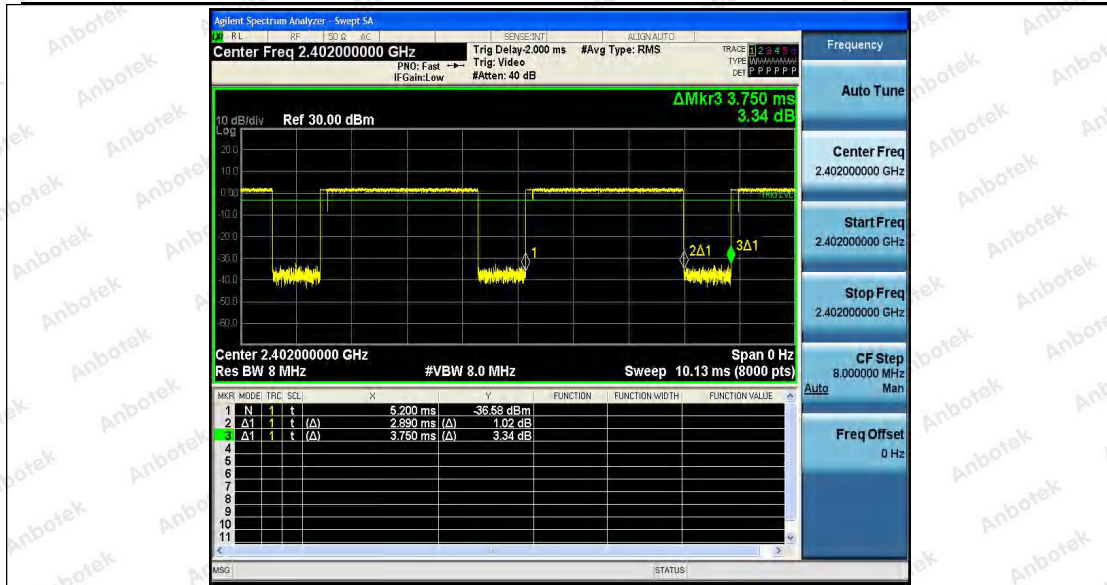


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