

Appendix Test Data

Report No.:	18220WC20048801	Test Sample No.:	1-2-2
Start Test Date:	2022.3.21	Finish Test Date:	2022.3.23
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
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	0.948	2401.538	2402.486	---	PASS
		2441	0.939	2440.538	2441.477	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.341	2401.331	2402.672	---	PASS
		2441	1.329	2440.334	2441.663	---	PASS
		2480	1.311	2479.340	2480.651	---	PASS
3DH5	Ant1	2402	1.281	2401.346	2402.627	---	PASS
		2441	1.326	2440.334	2441.660	---	PASS
		2480	1.272	2479.352	2480.624	---	PASS

Test Graphs

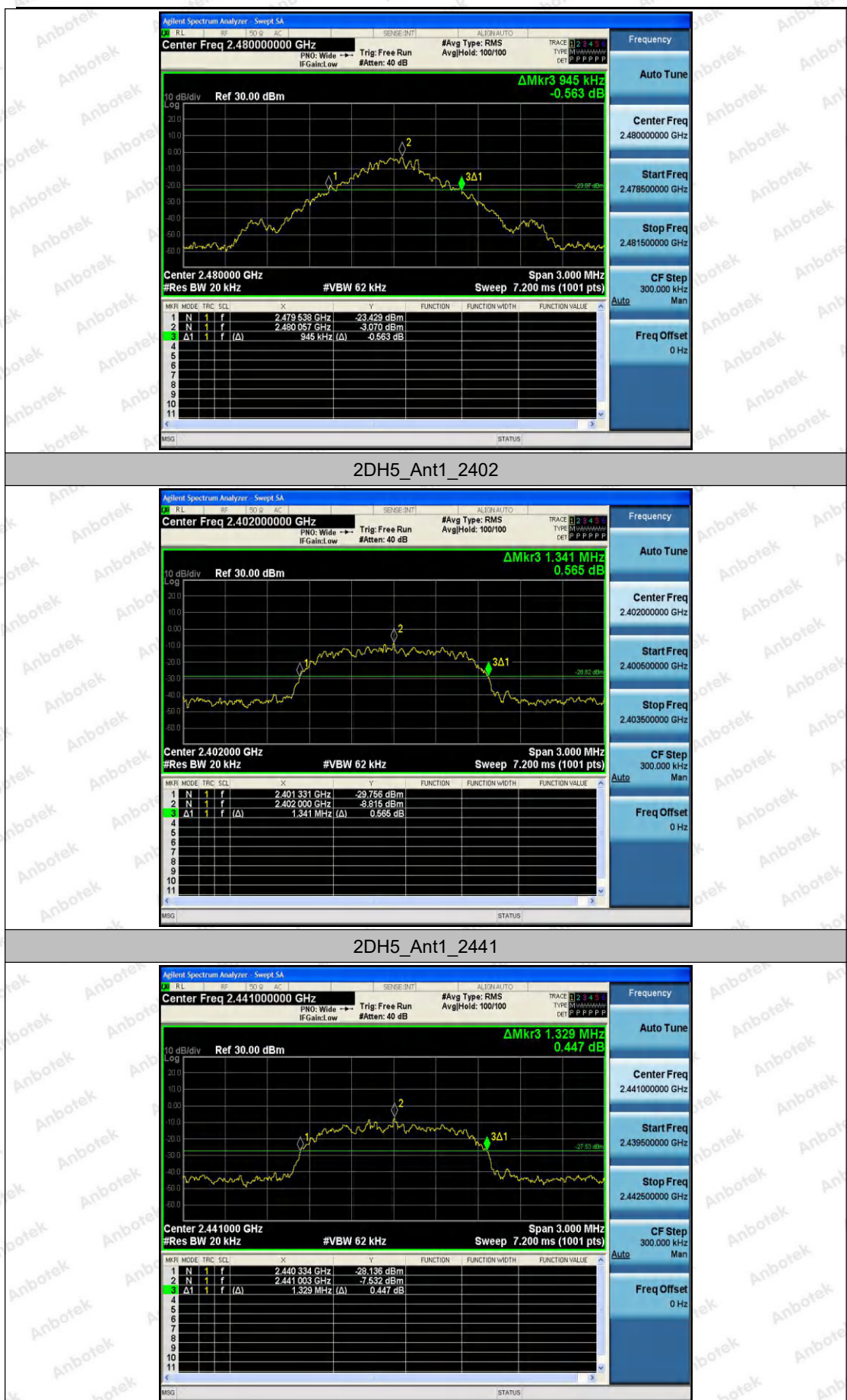
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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2DH5_Ant1_2480



3DH5_Ant1_2402



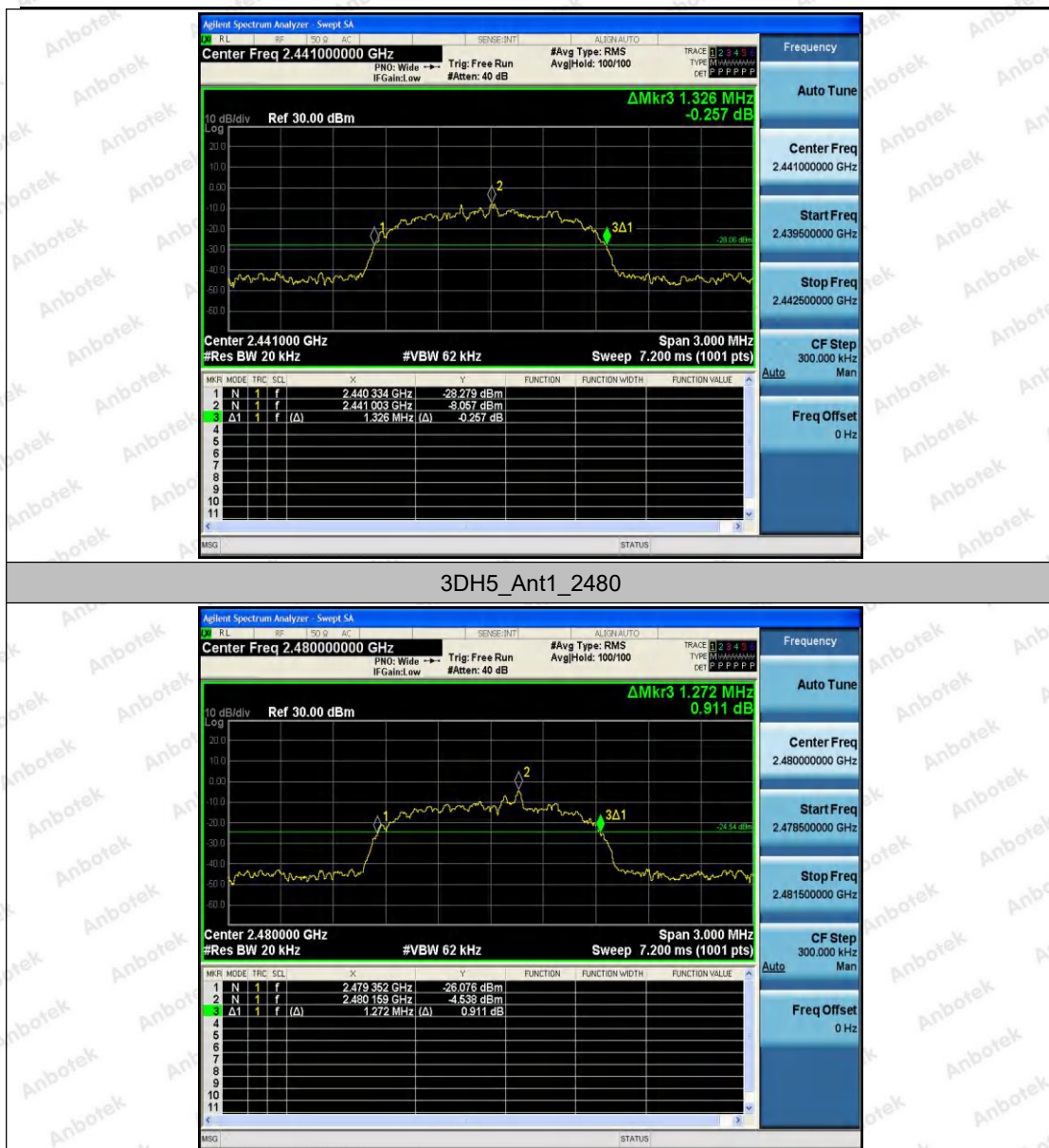
3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

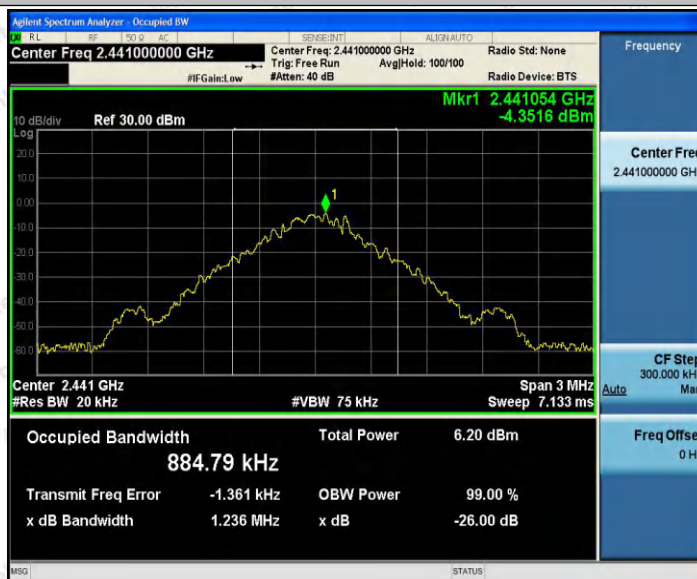
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88739	2401.55 6	2402.443	---	PASS
		2441	0.88479	2440.55 6	2441.441	---	PASS
		2480	0.89815	2479.55 3	2480.452	---	PASS
2DH5	Ant1	2402	1.1989	2401.40 2	2402.601	---	PASS
		2441	1.1935	2440.40 3	2441.596	---	PASS
		2480	1.1950	2479.40 2	2480.597	---	PASS
3DH5	Ant1	2402	1.2142	2401.38 3	2402.597	---	PASS
		2441	1.2058	2440.38 9	2441.594	---	PASS
		2480	1.2086	2479.38 6	2480.595	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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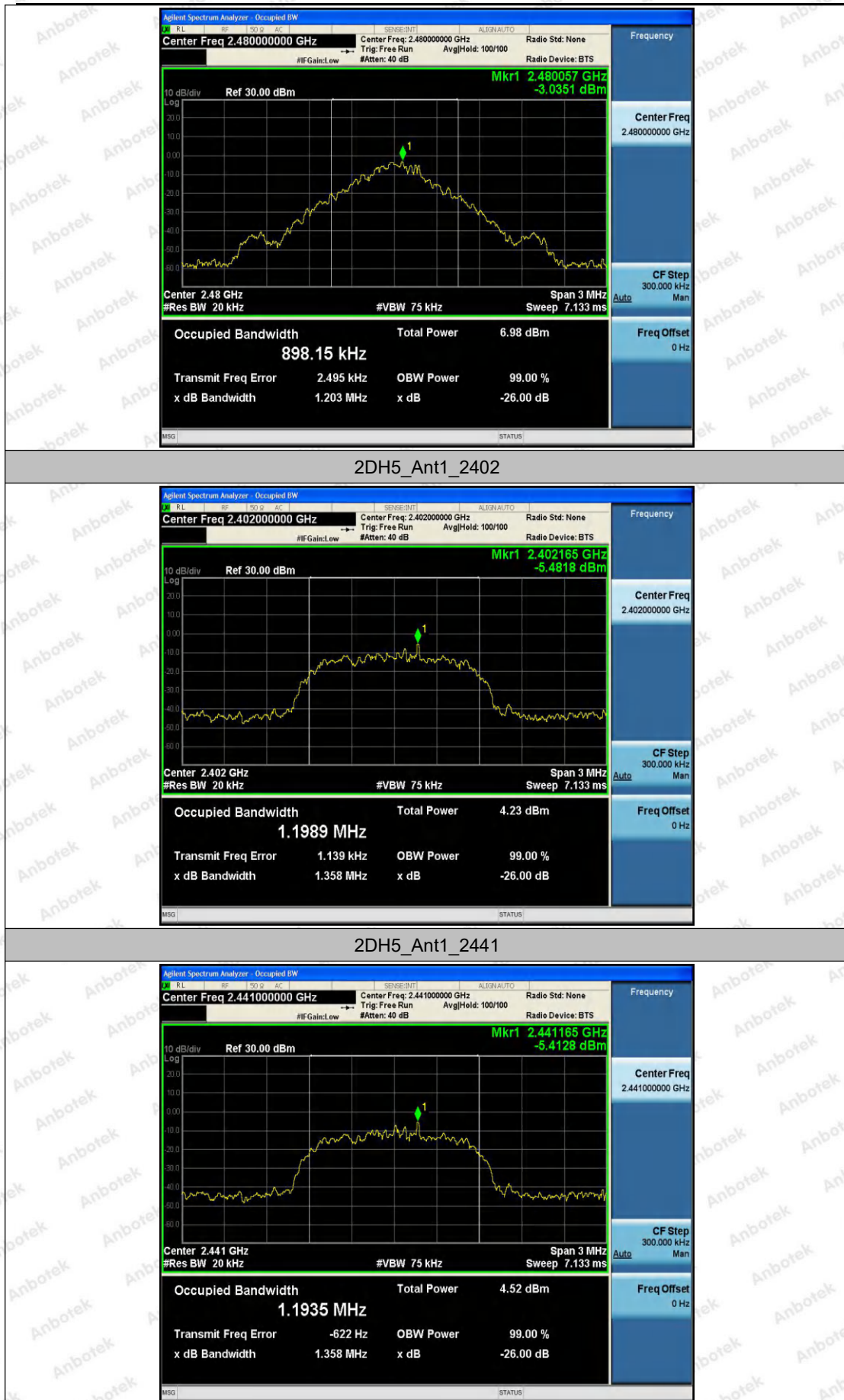
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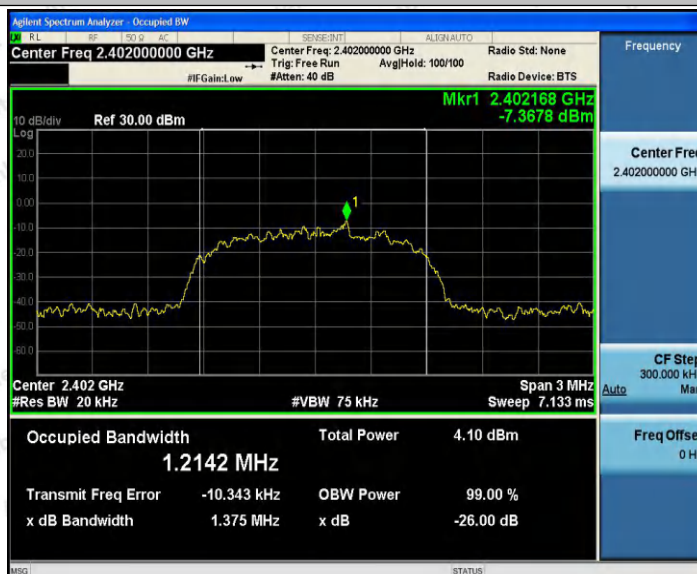
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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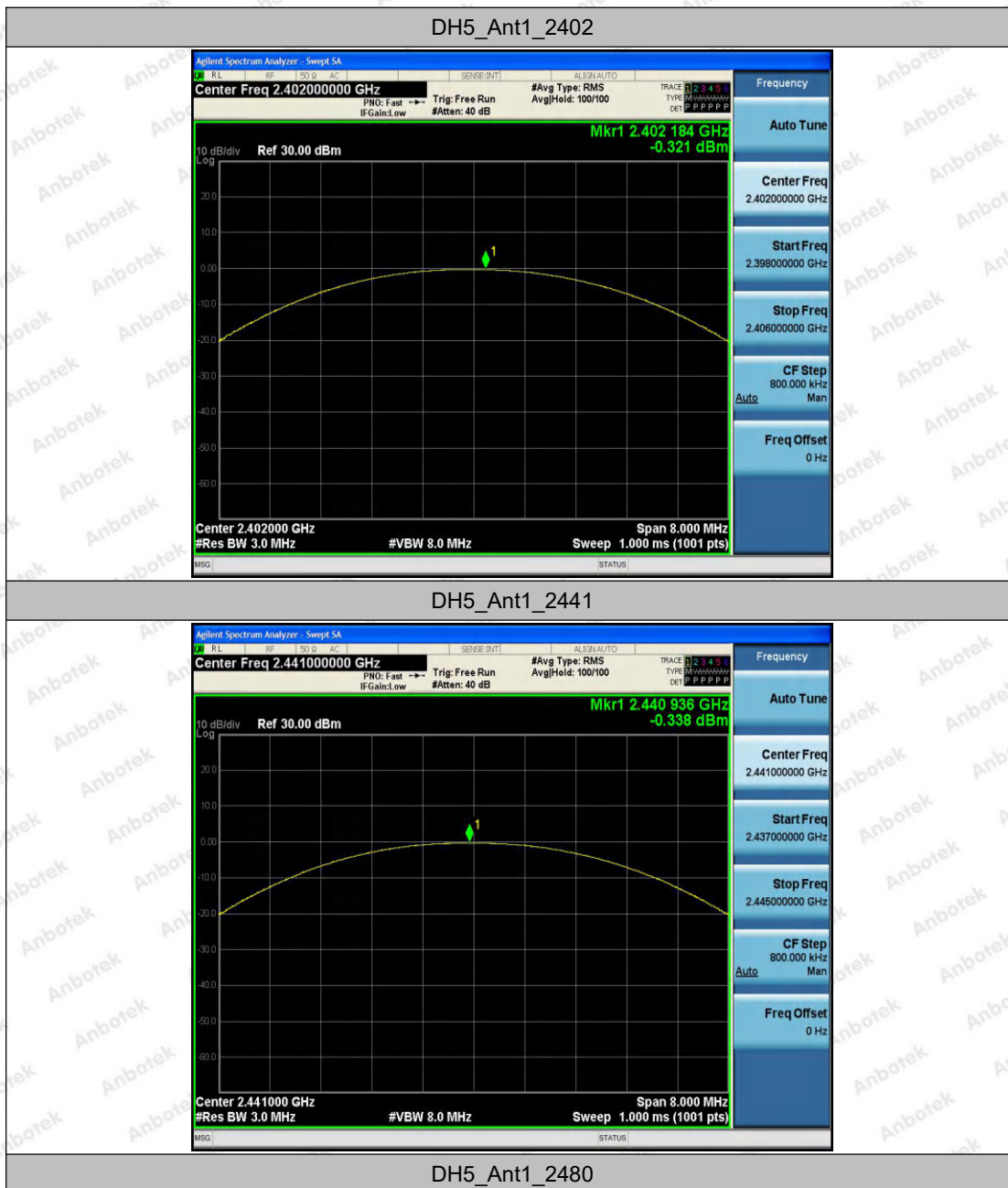
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.32	≤20.97	PASS
		2441	-0.34	≤20.97	PASS
		2480	0.47	≤20.97	PASS
2DH5	Ant1	2402	-0.85	≤20.97	PASS
		2441	-1.05	≤20.97	PASS
		2480	-0.2	≤20.97	PASS
3DH5	Ant1	2402	-0.68	≤20.97	PASS
		2441	-0.89	≤20.97	PASS
		2480	-0.13	≤20.97	PASS

Test Graphs



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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	0.794	≥ 0.632	PASS
2DH5	Ant1	Hop	1.136	≥ 0.894	PASS
3DH5	Ant1	Hop	0.976	≥ 0.884	PASS

Test Graphs



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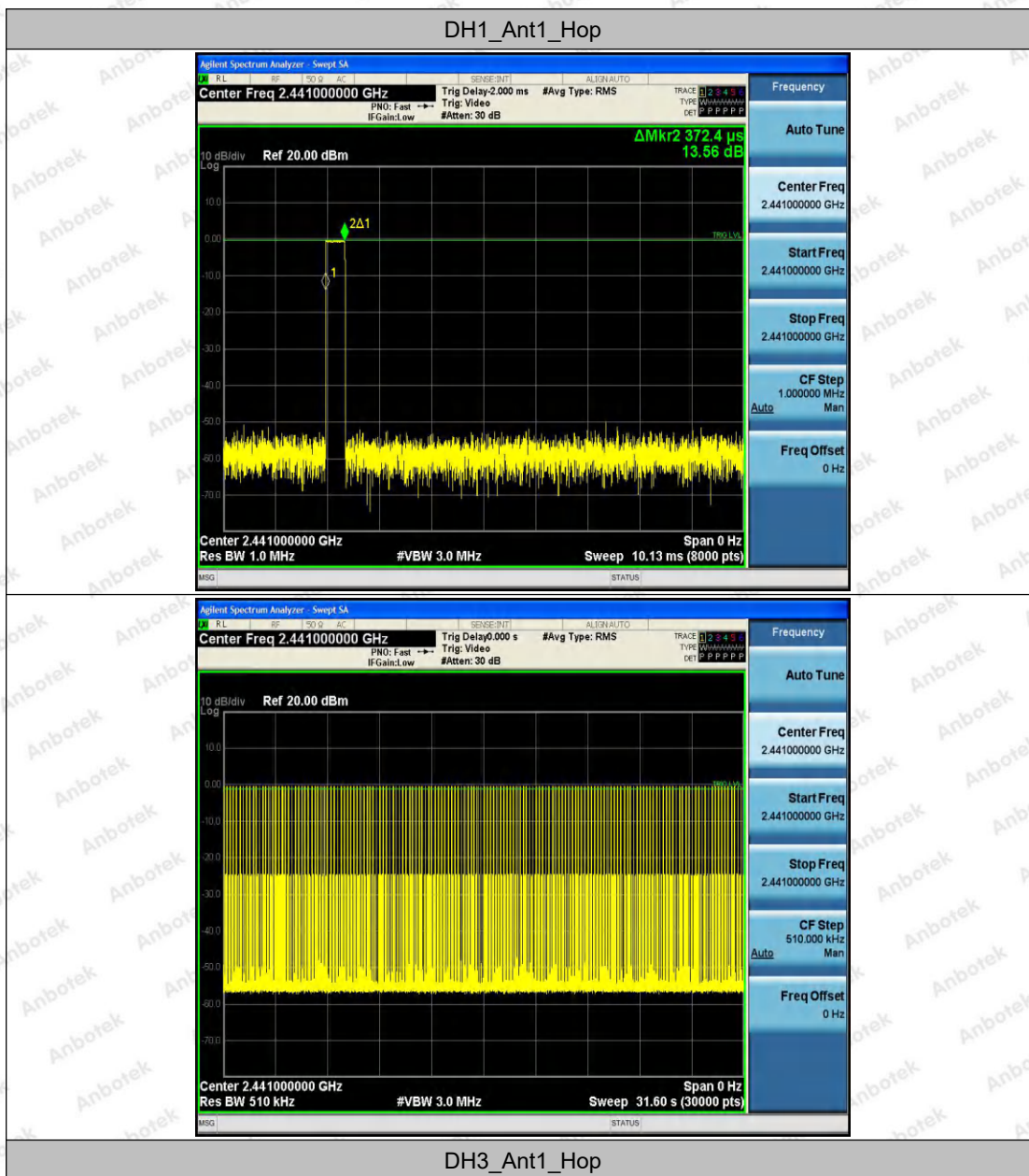
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Appendix E: Time of occupancy

Test Result

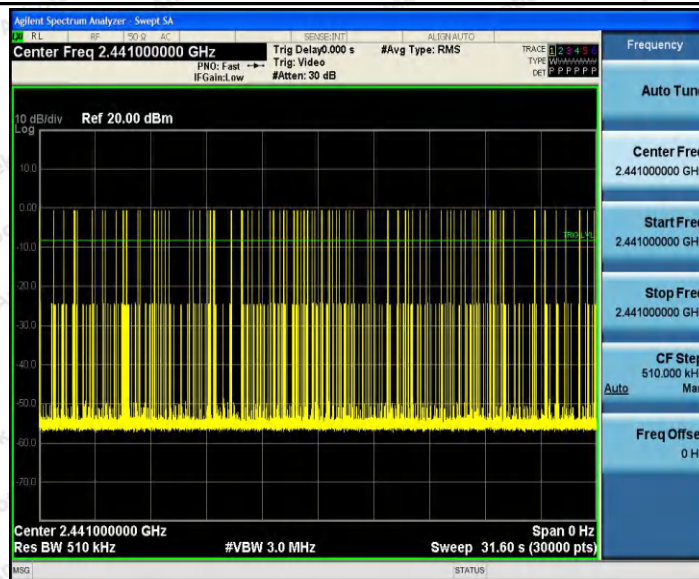
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	103	0.296	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS

Test Graphs

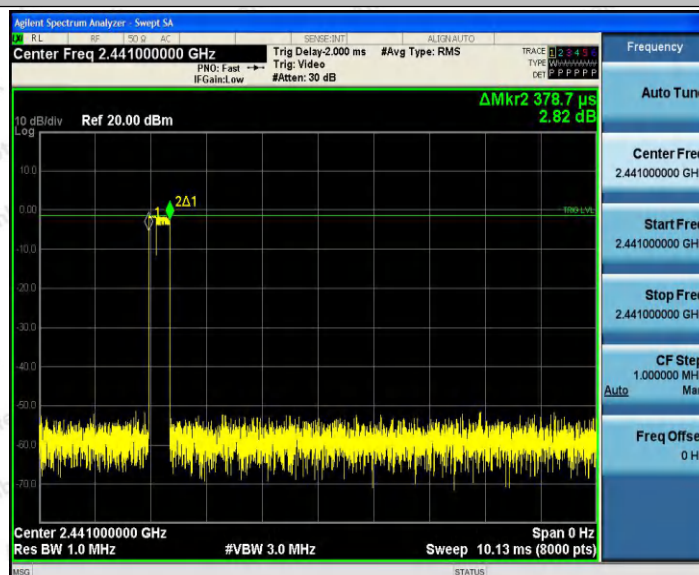




DH5_Ant1_Hop



2DH1_Ant1_Hop



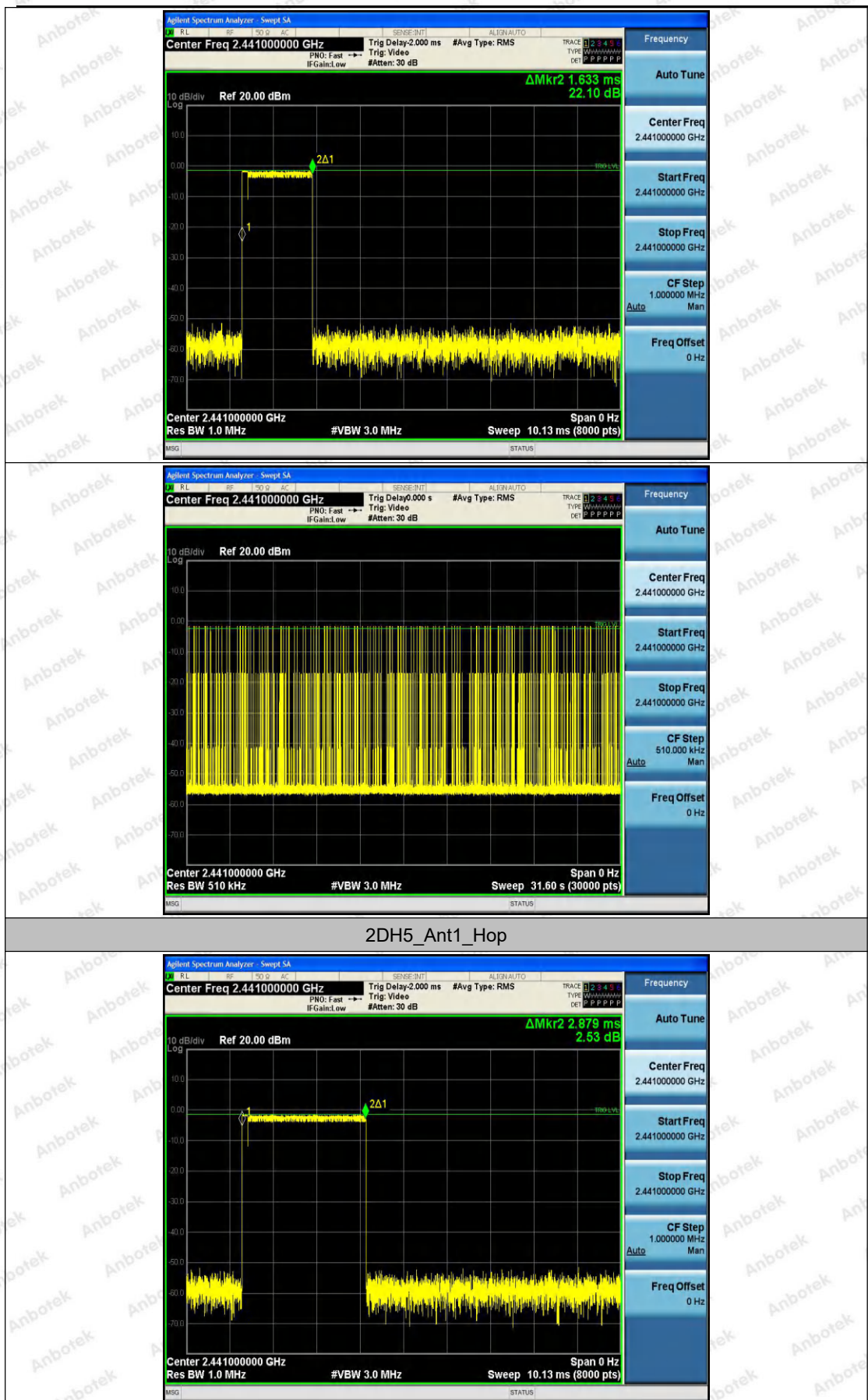
2DH3_Ant1_Hop

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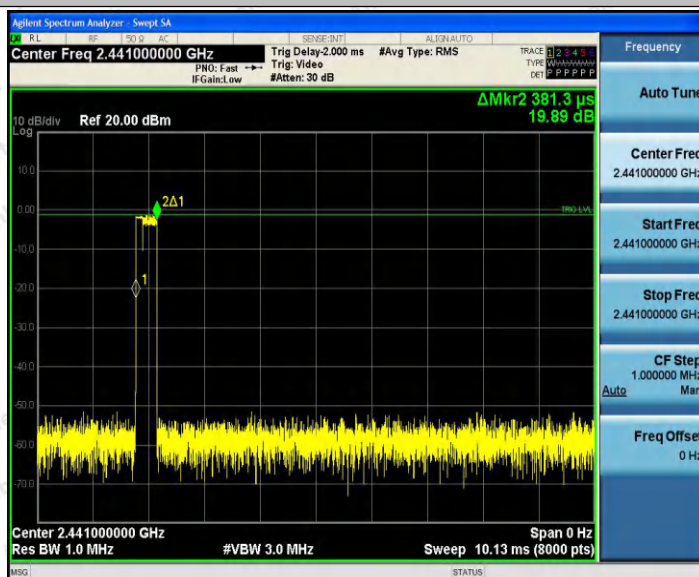
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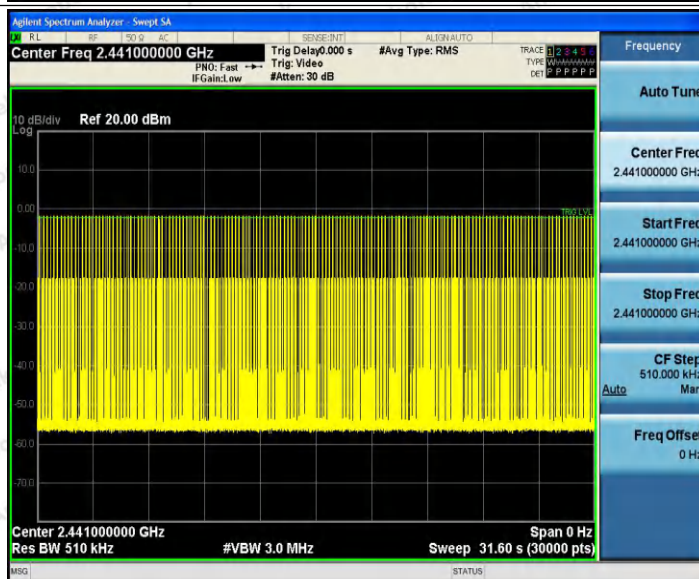




3DH1_Ant1_Hop



3DH3_Ant1_Hop

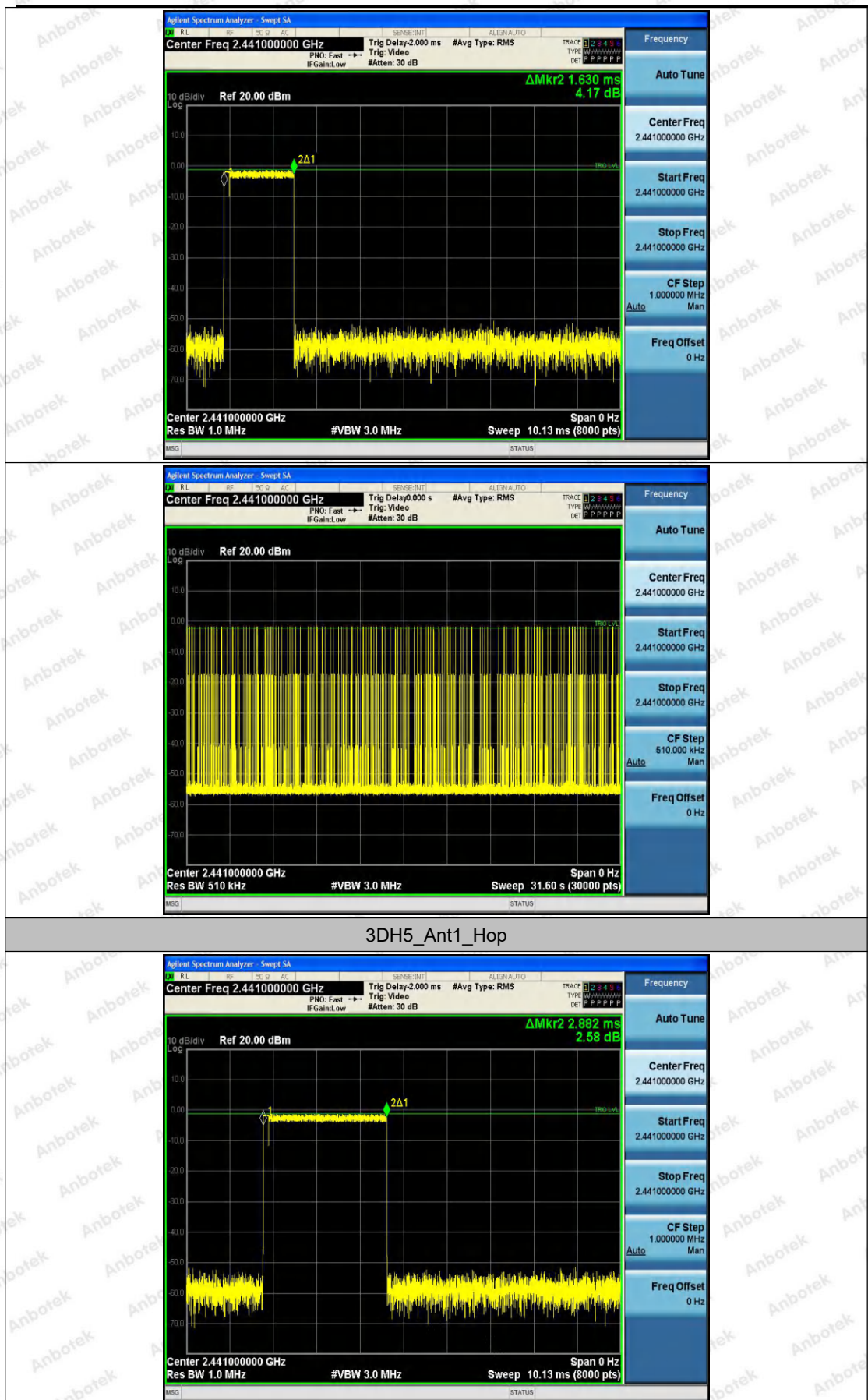


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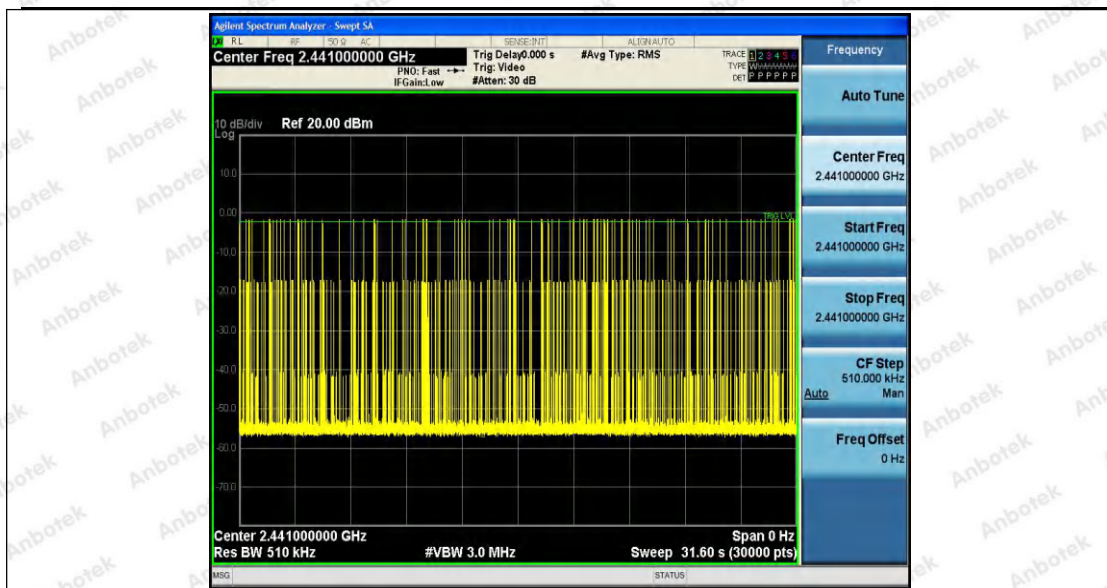


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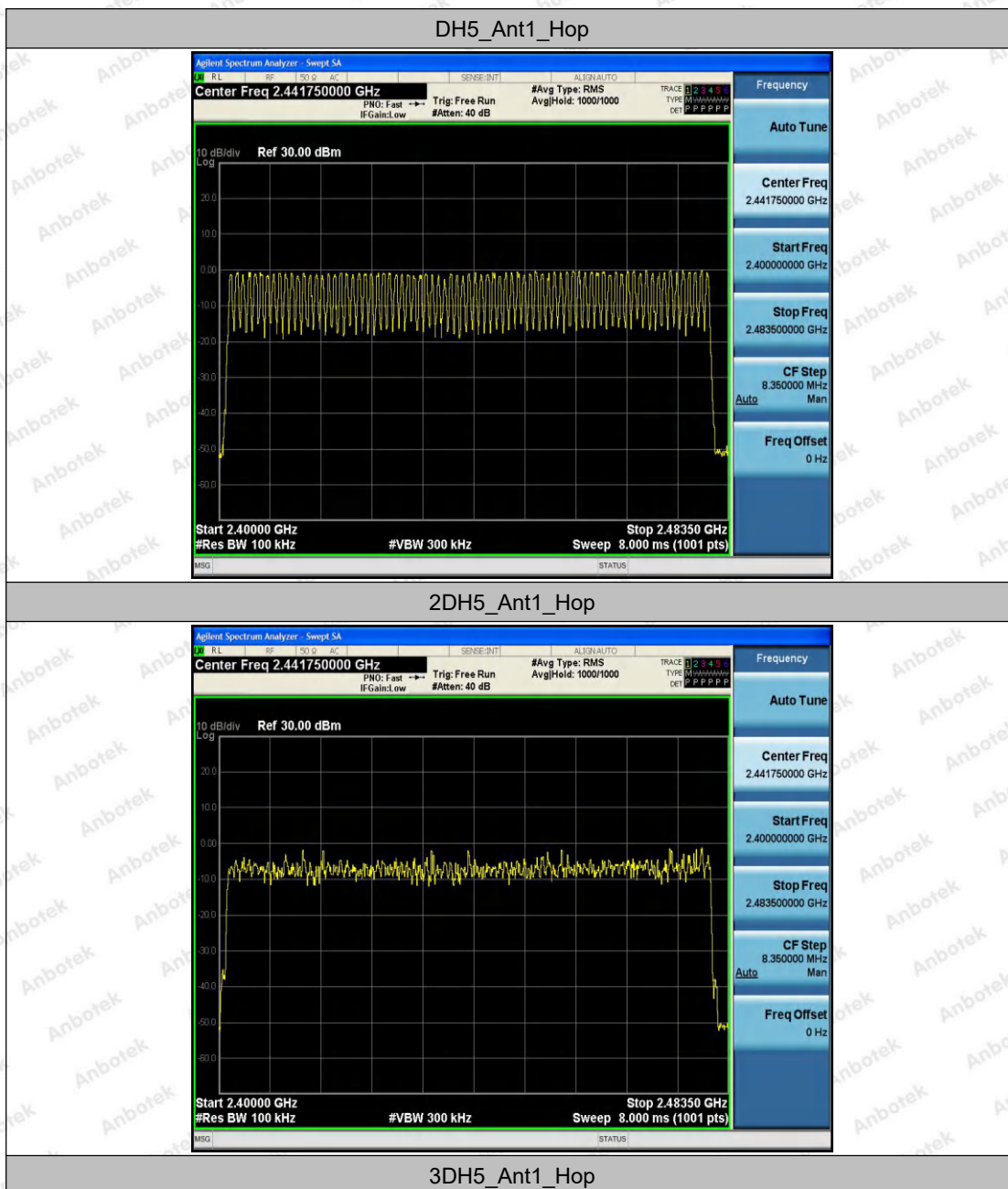
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Appendix F: Number of hopping channels

Test Result

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

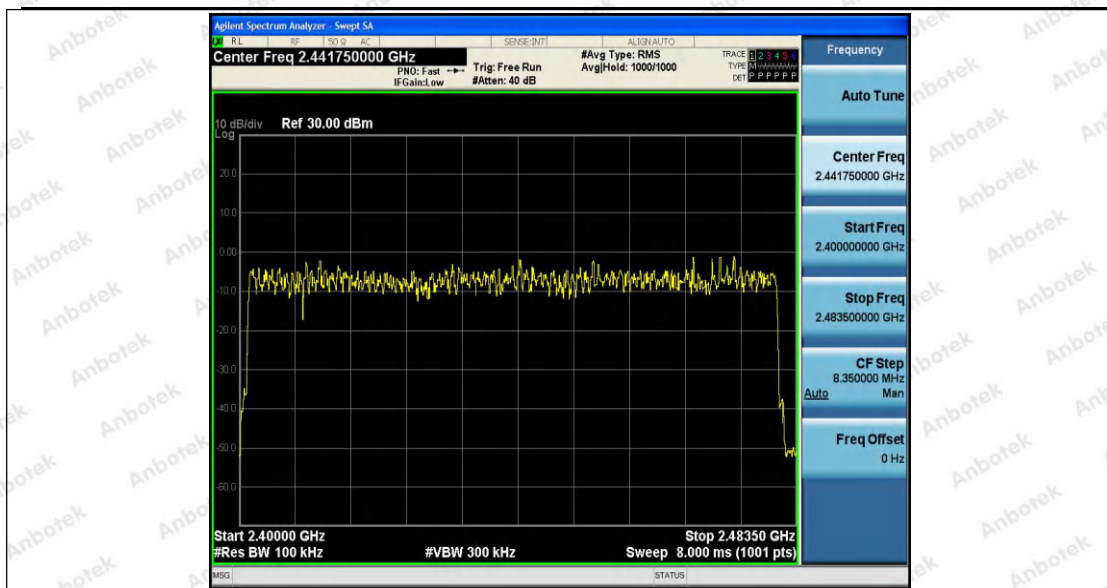


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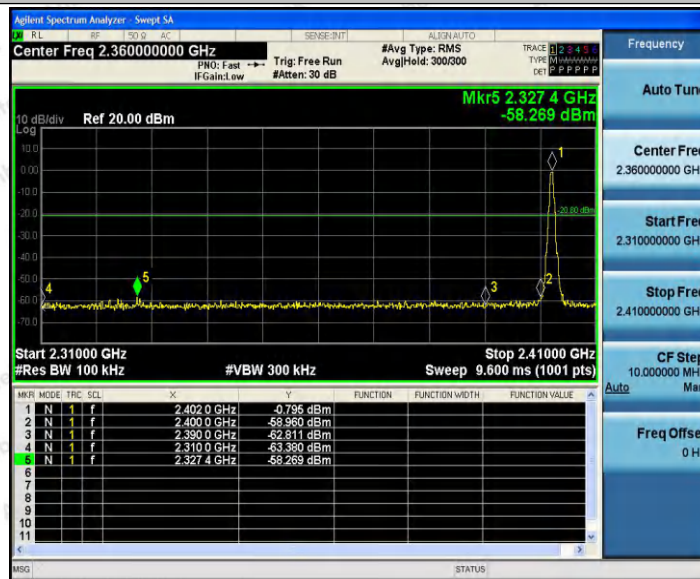
Appendix G: Band edge measurements

Test Result

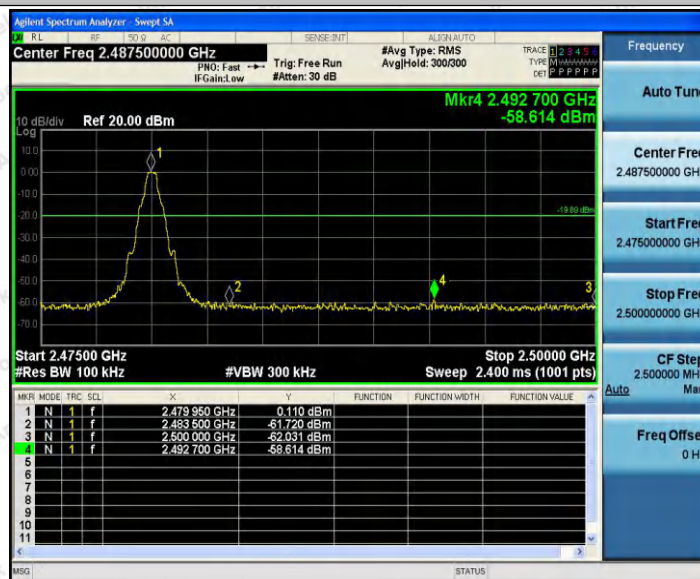
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.80	-58.27	≤ -20.8	PASS
		High	2480	0.11	-58.61	≤ -19.89	PASS
		Low	Hop	-0.95	-59.77	≤ -20.95	PASS
		High	Hop	-0.27	-62.5	≤ -20.27	PASS
2DH5	Ant1	Low	2402	-2.88	-56.76	≤ -22.88	PASS
		High	2480	-1.21	-59.16	≤ -21.21	PASS
		Low	Hop	-2.38	-59.88	≤ -22.38	PASS
		High	Hop	-5.07	-62.76	≤ -25.07	PASS
3DH5	Ant1	Low	2402	-1.91	-58.11	≤ -21.91	PASS
		High	2480	-1.58	-59.66	≤ -21.58	PASS
		Low	Hop	-4.06	-58.94	≤ -24.06	PASS
		High	Hop	-1.65	-62.45	≤ -21.65	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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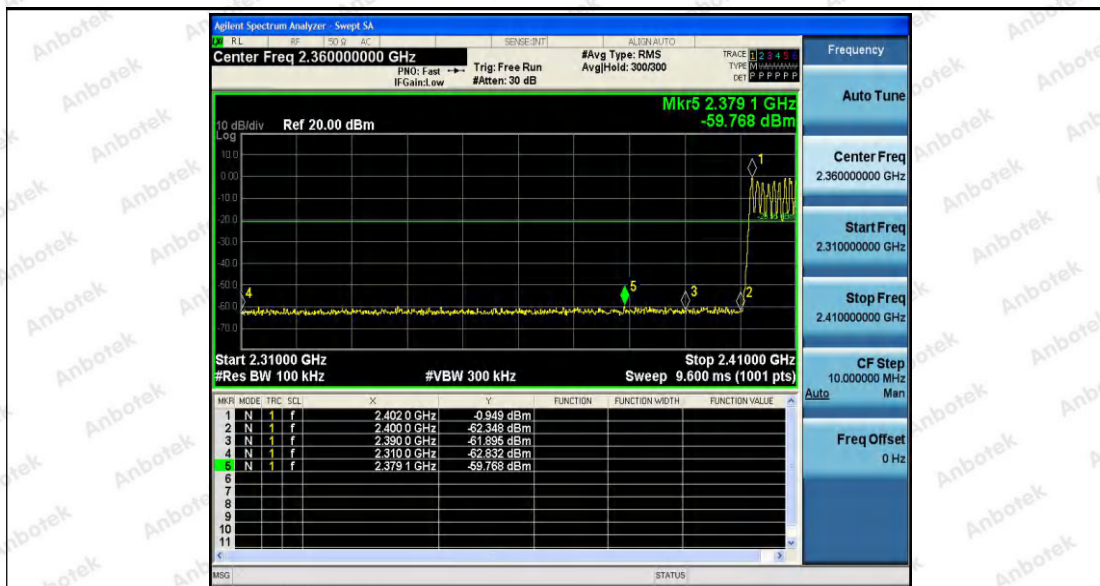
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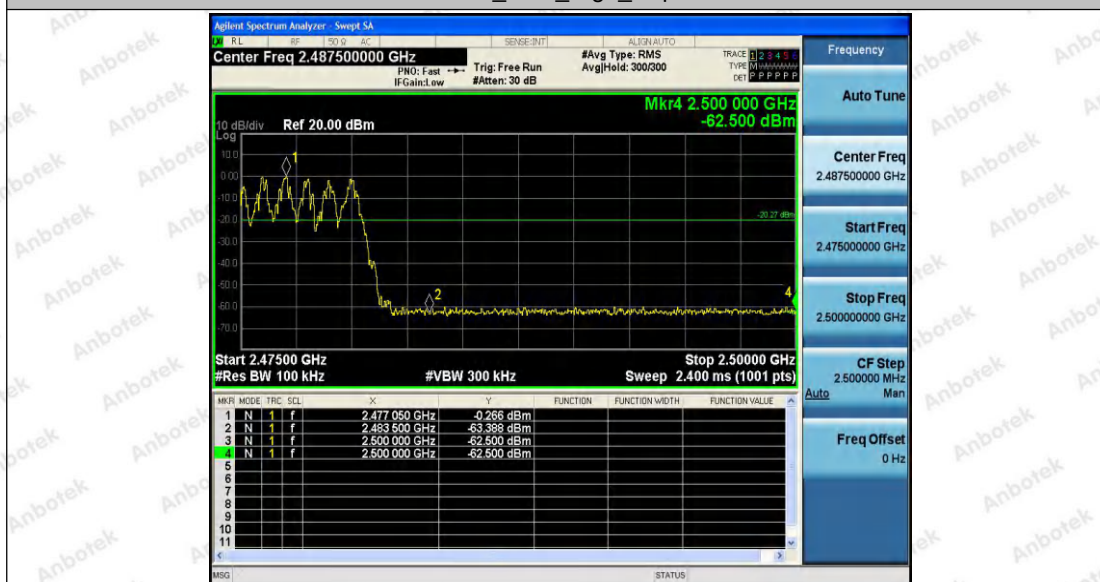
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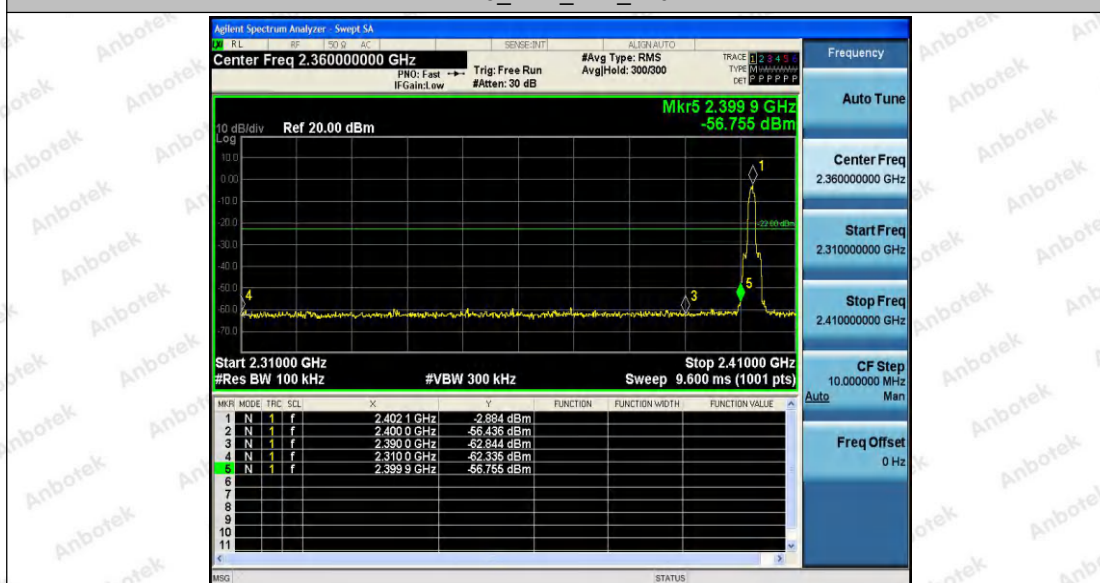
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



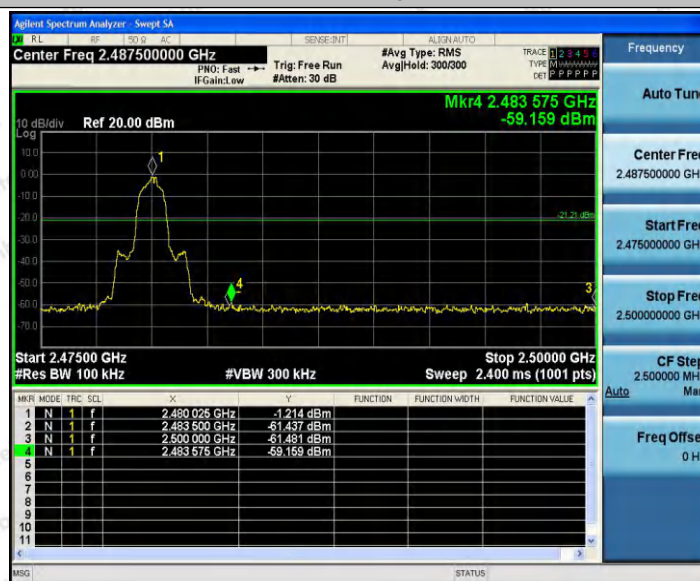
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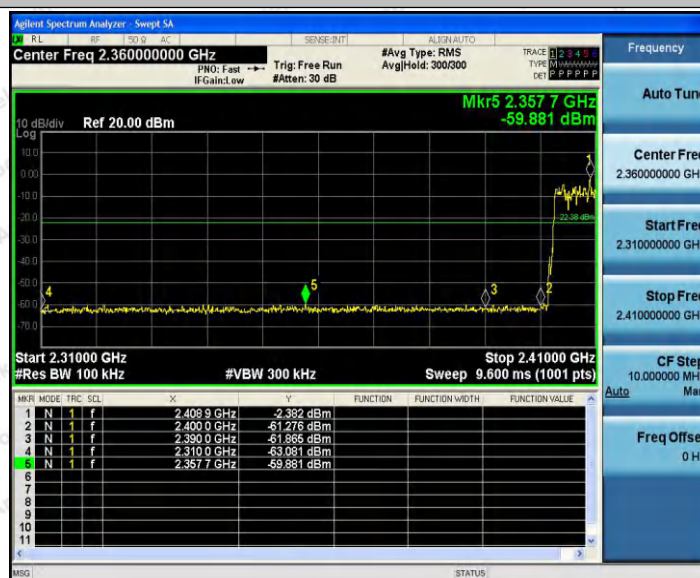
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



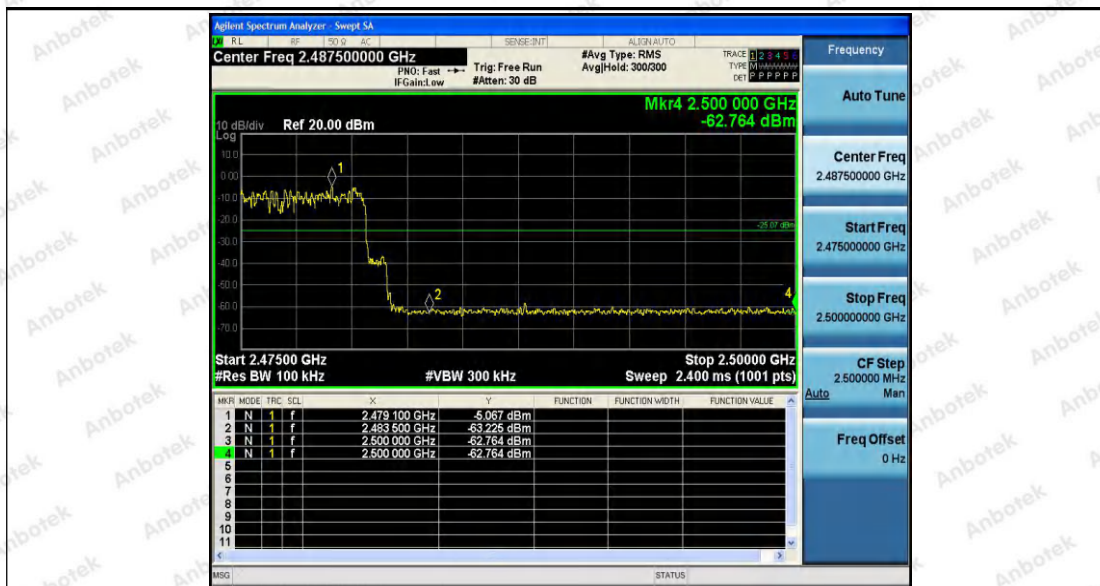
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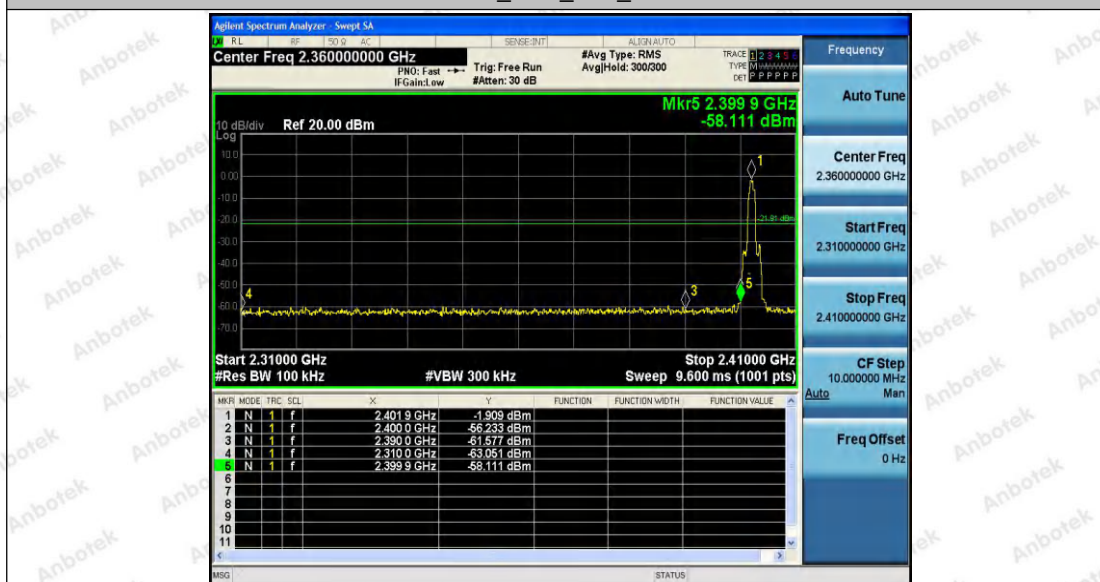
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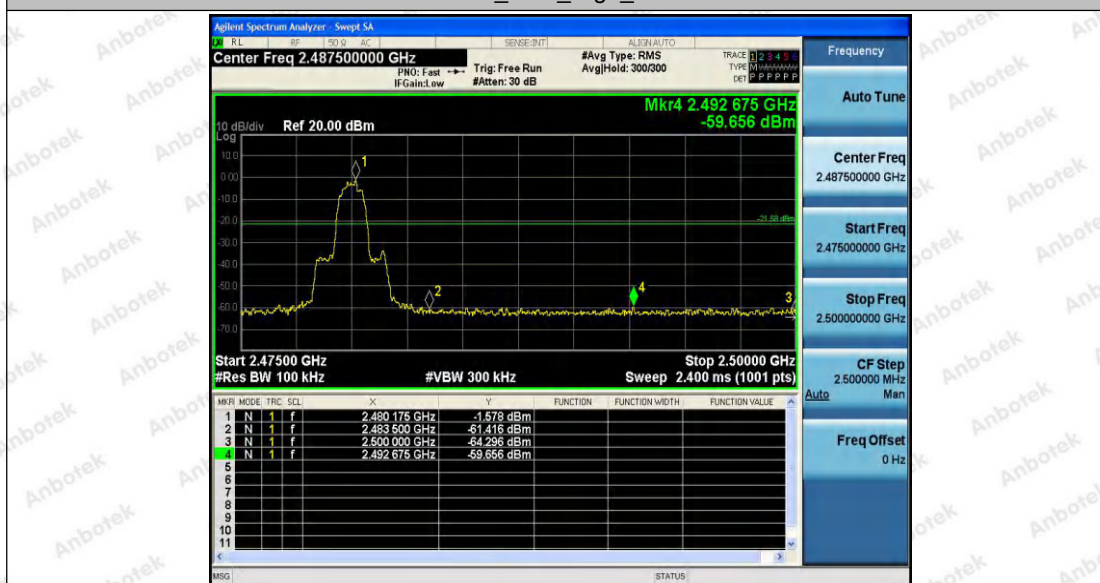
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

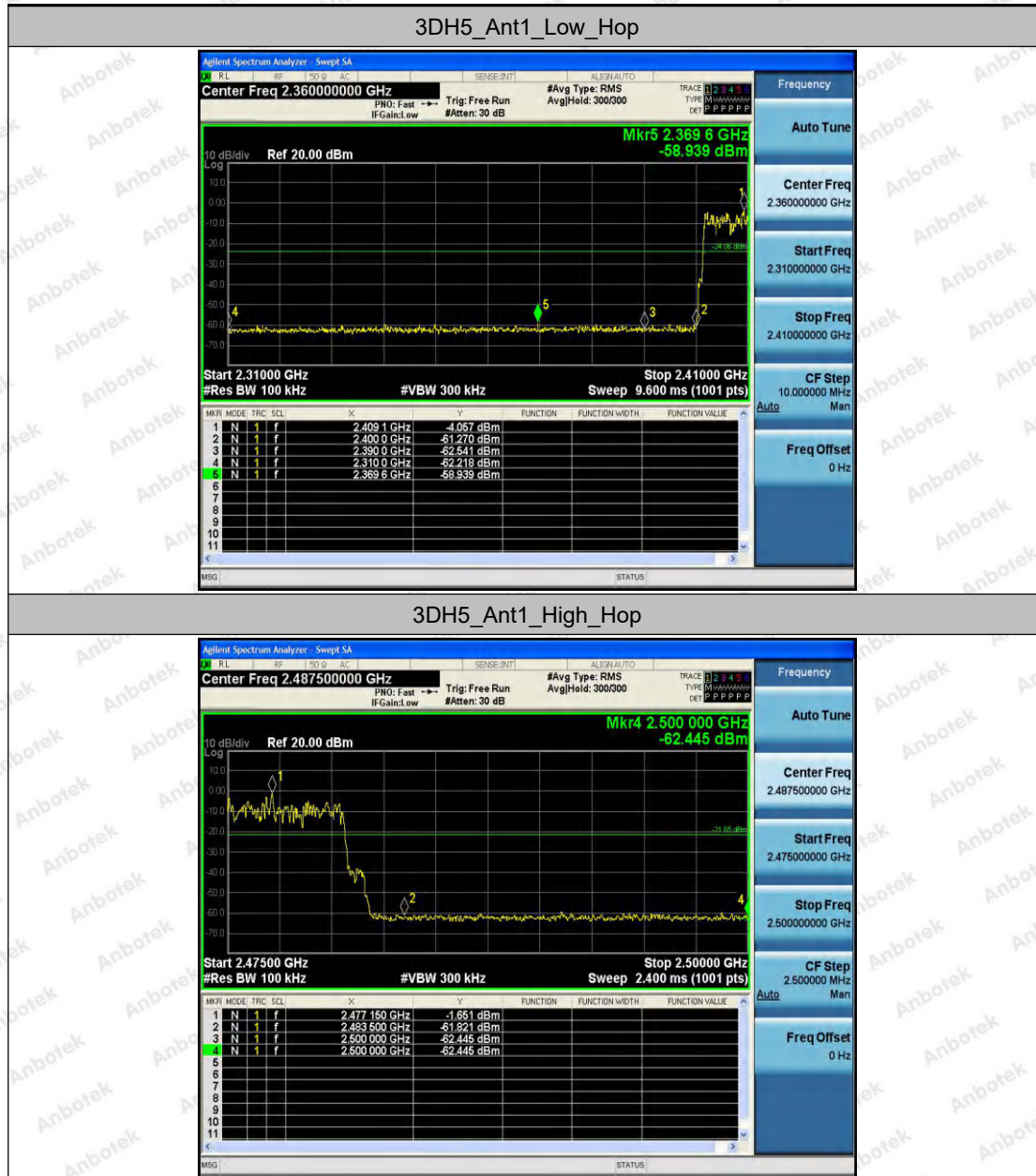


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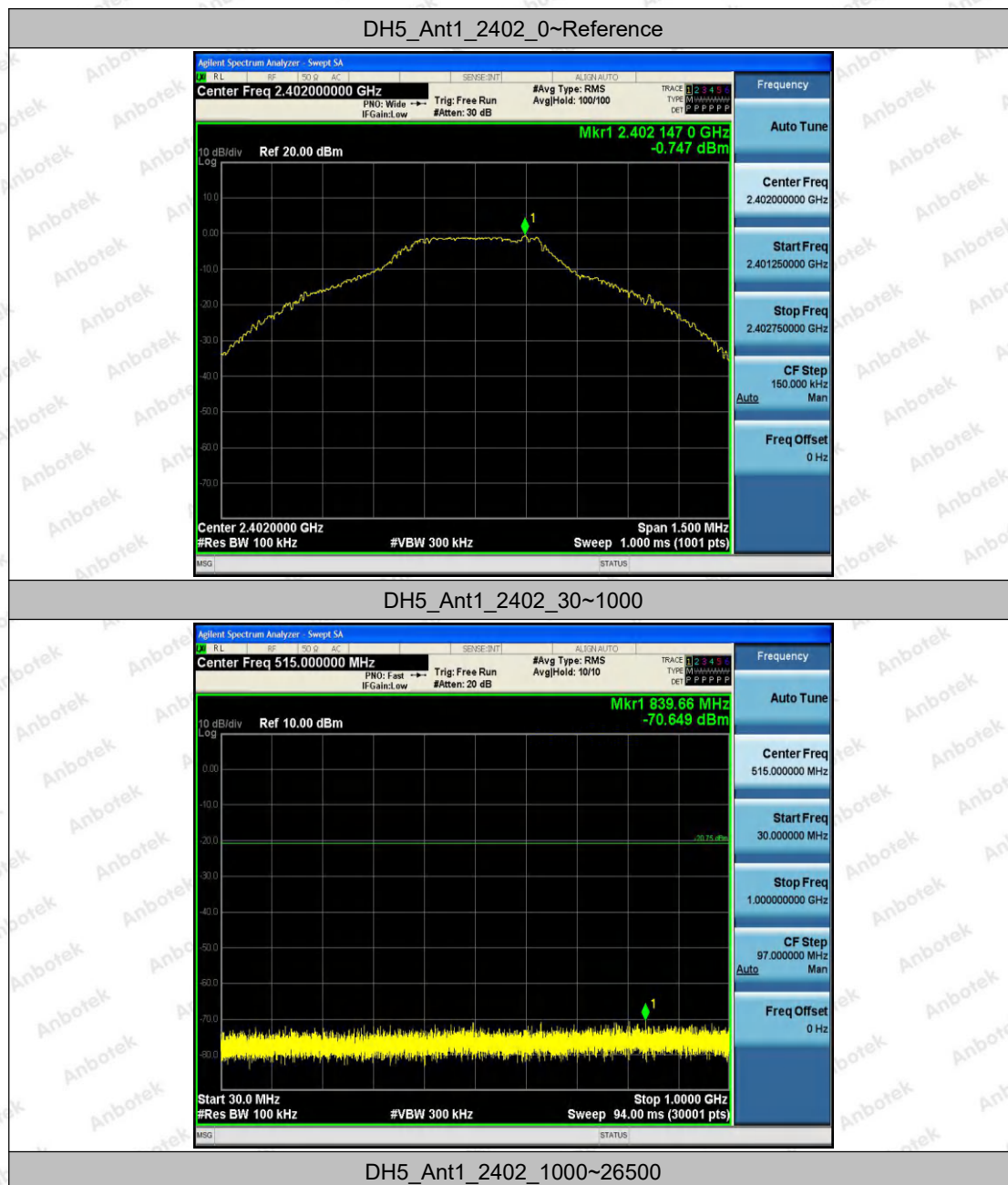
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-70.65	≤-20.75	PASS
			1000~26500	-0.75	-55.38	≤-20.75	PASS
		2441	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-70.4	≤-21.09	PASS
			1000~26500	-1.09	-55.32	≤-21.09	PASS
		2480	Reference	0.19	0.19	---	PASS
			30~1000	0.19	-69.8	≤-19.81	PASS
			1000~26500	0.19	-54.82	≤-19.81	PASS
2DH5	Ant1	2402	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-70.98	≤-21.75	PASS
			1000~26500	-1.75	-54.91	≤-21.75	PASS
		2441	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-70.36	≤-22.09	PASS
			1000~26500	-2.09	-41.52	≤-22.09	PASS
		2480	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-70.36	≤-21.17	PASS
			1000~26500	-1.17	-55.36	≤-21.17	PASS
3DH5	Ant1	2402	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-70.34	≤-21.81	PASS
			1000~26500	-1.81	-55.13	≤-21.81	PASS
		2441	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-70.26	≤-22.04	PASS
			1000~26500	-2.04	-56.15	≤-22.04	PASS
		2480	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-70.97	≤-21.02	PASS
			1000~26500	-1.02	-54.64	≤-21.02	PASS

Test Graphs

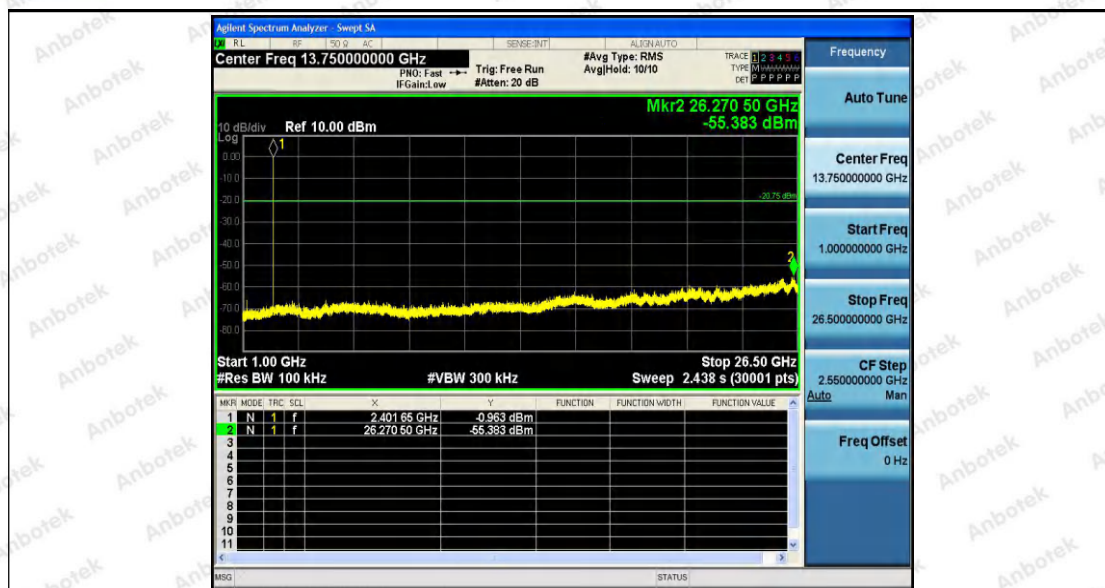


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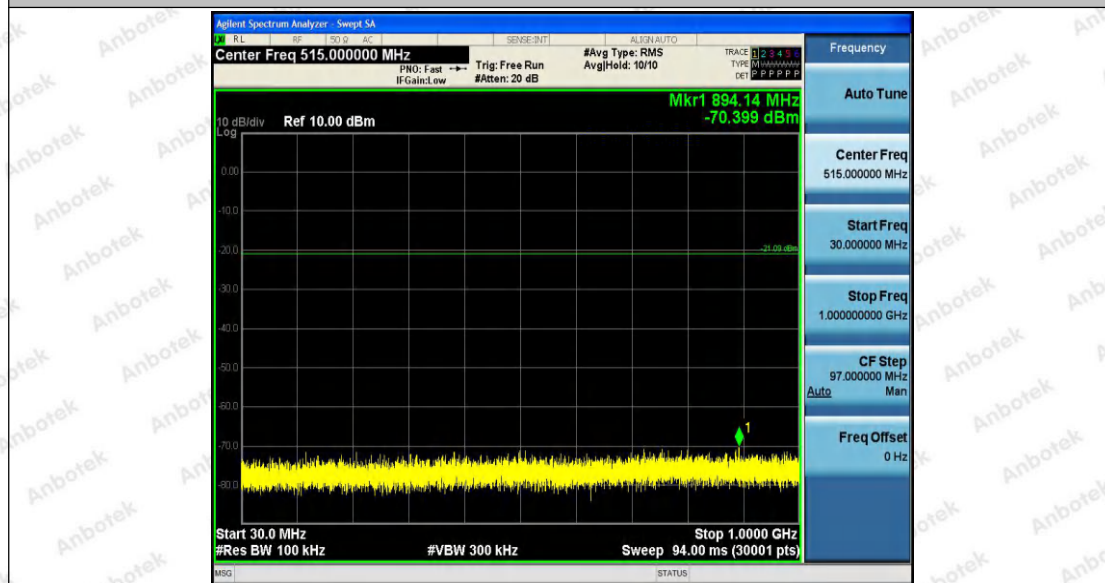
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



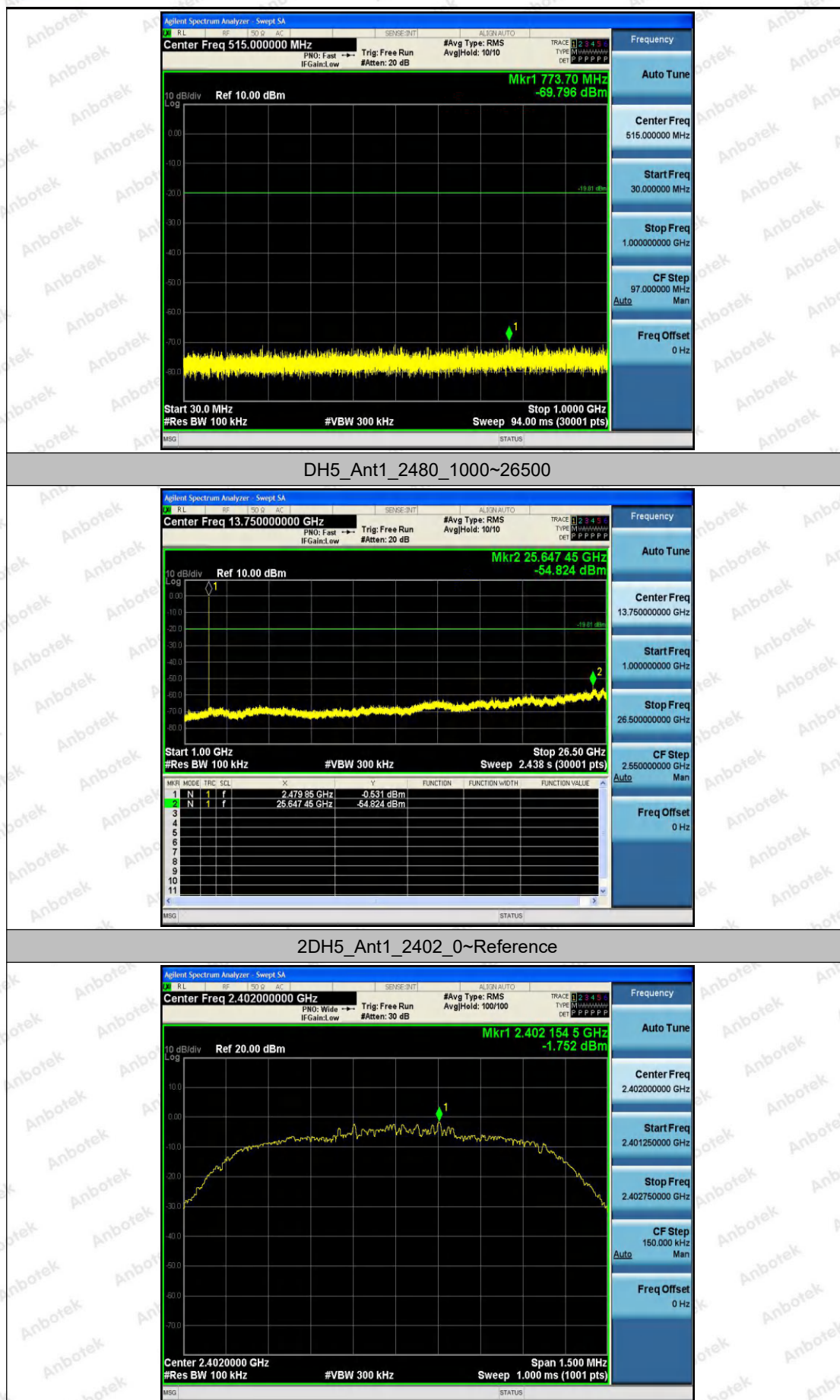
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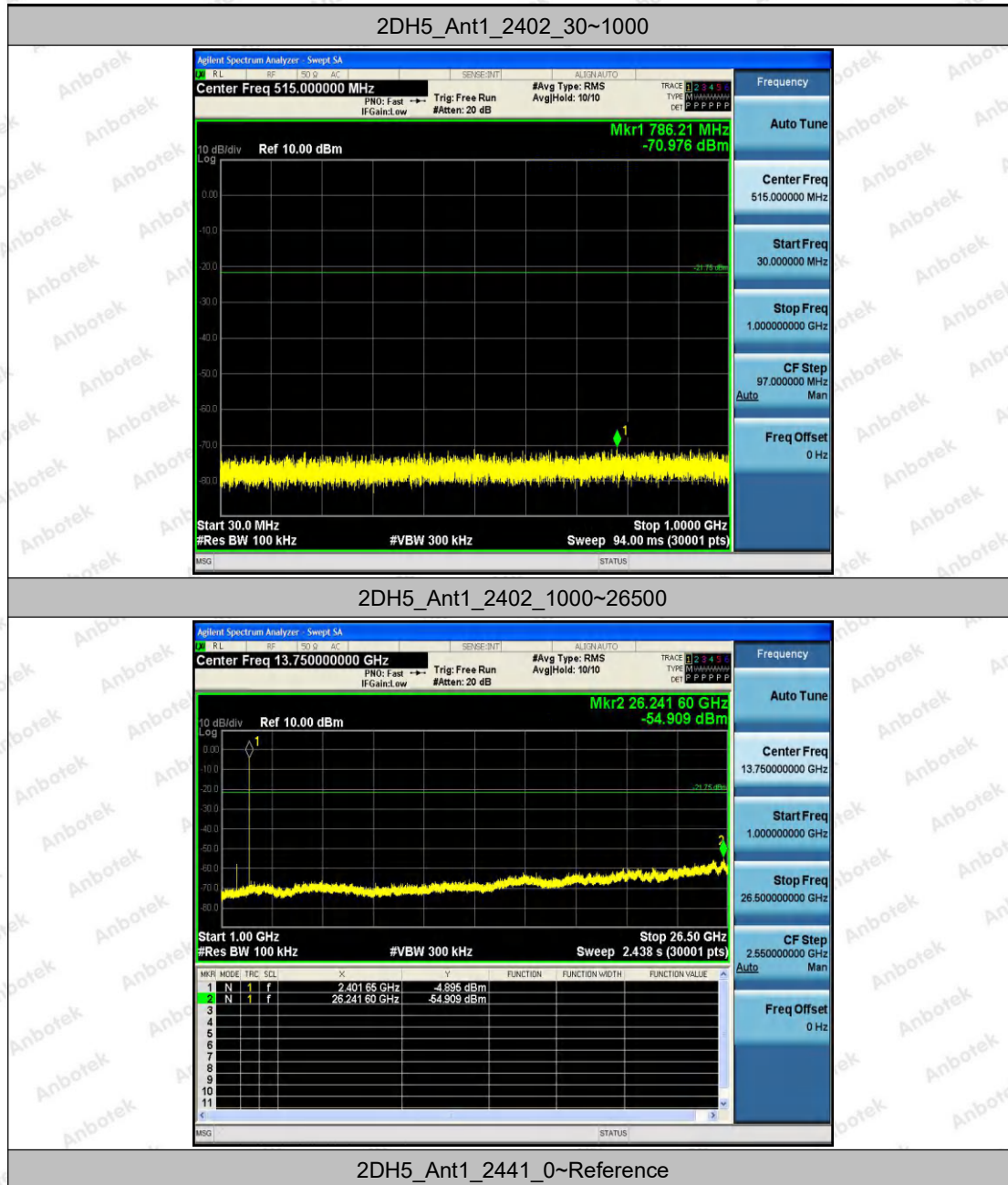


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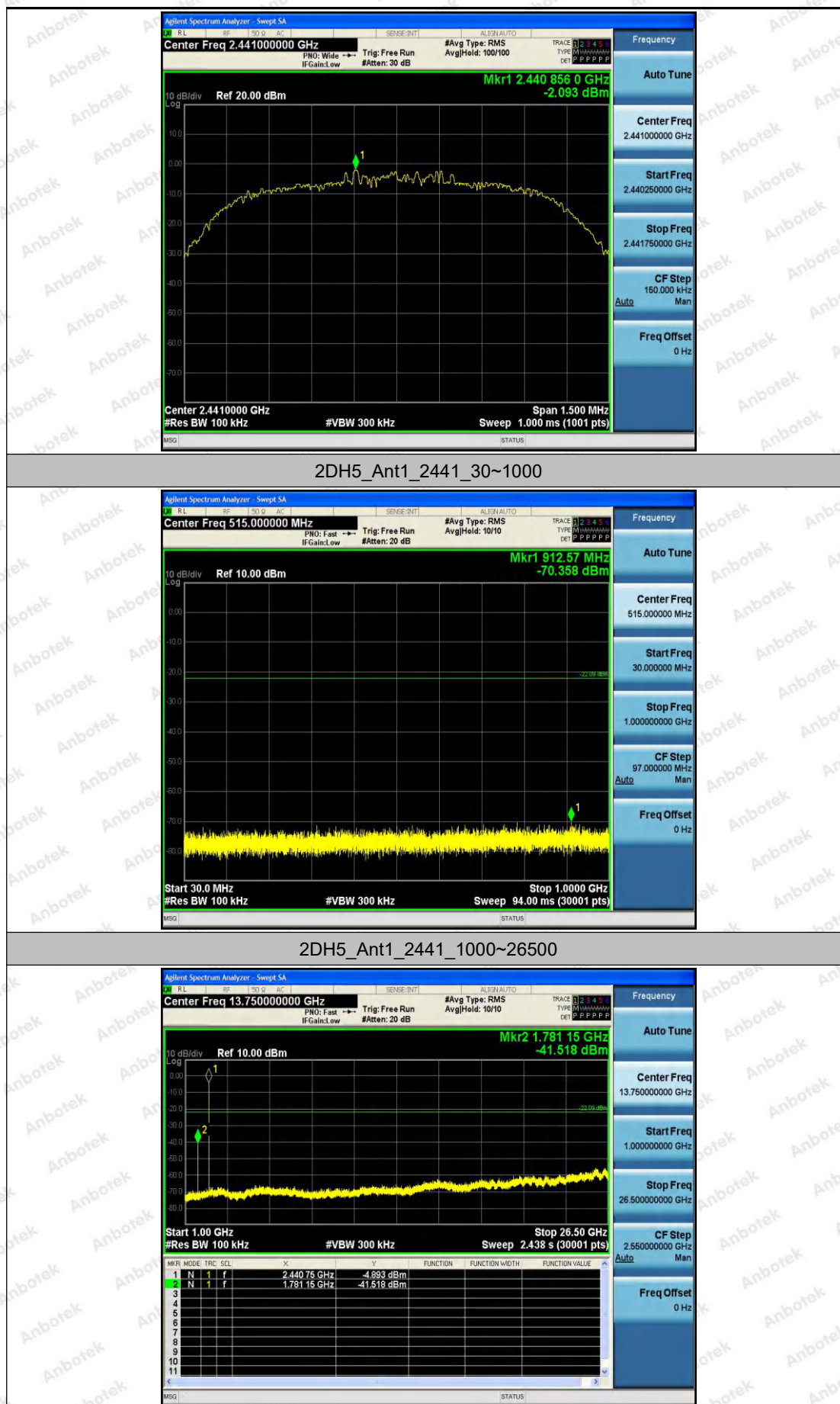


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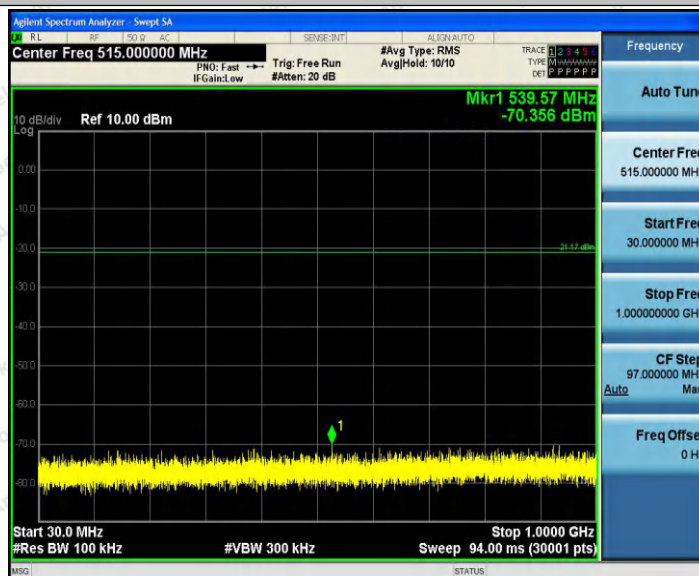
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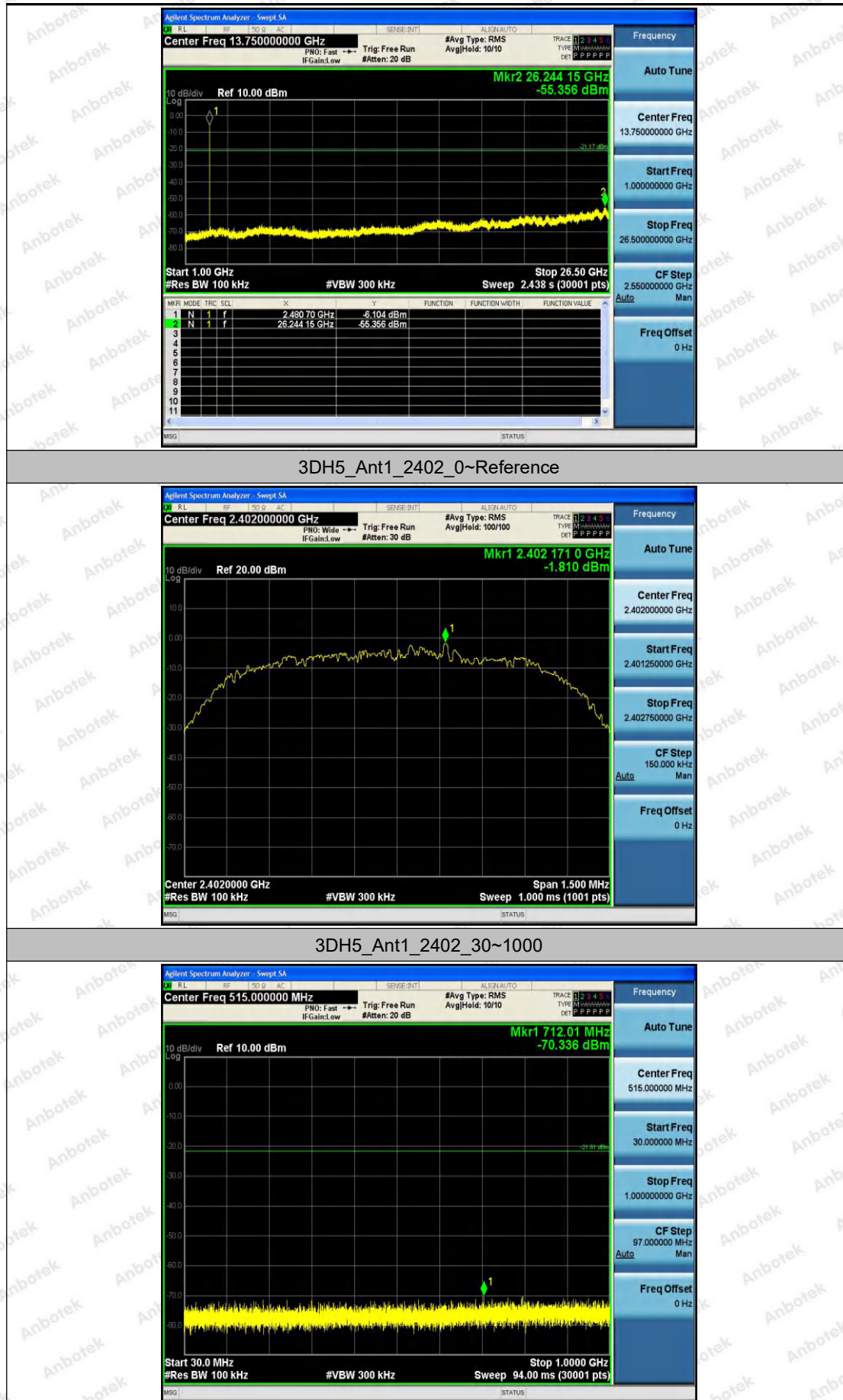
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



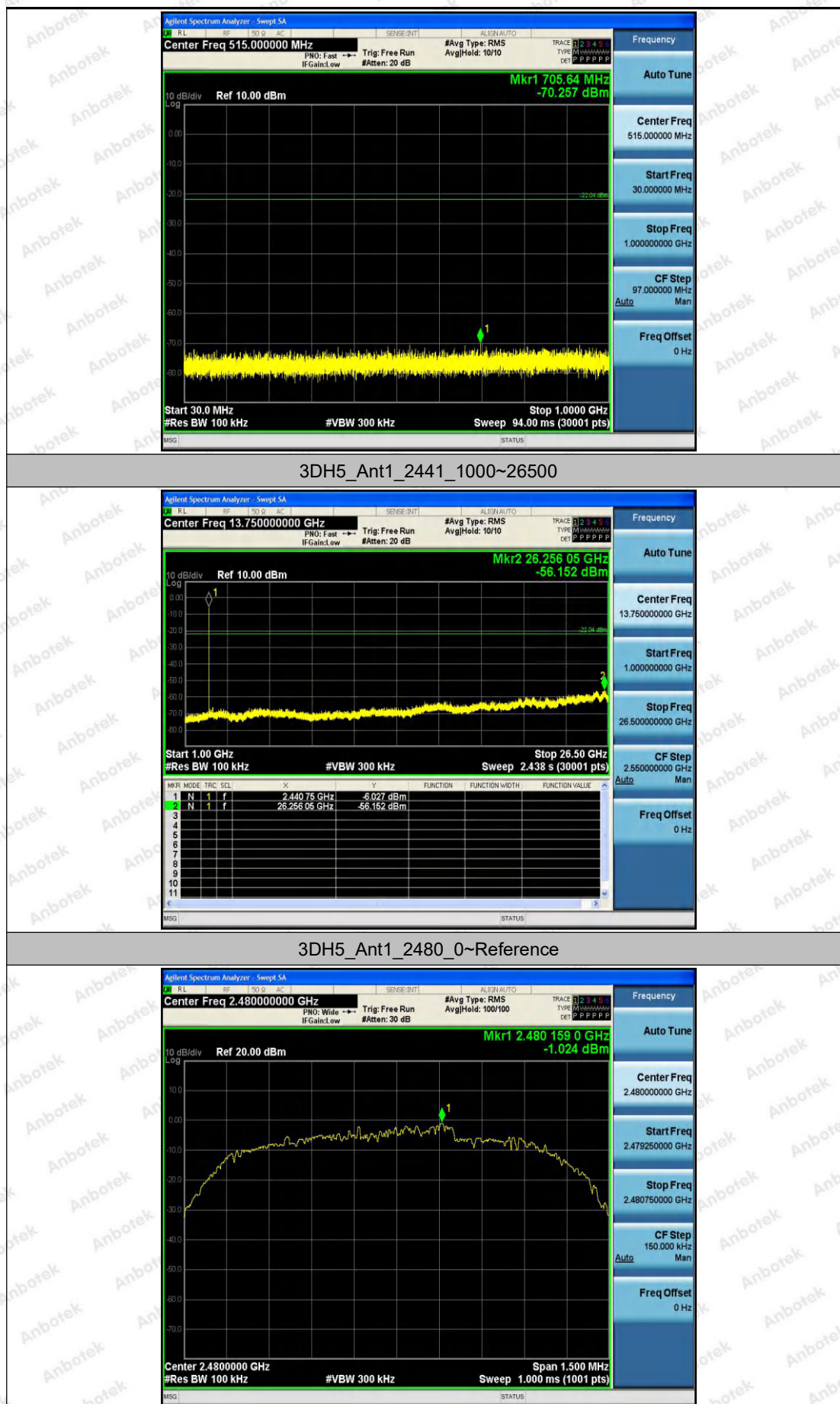
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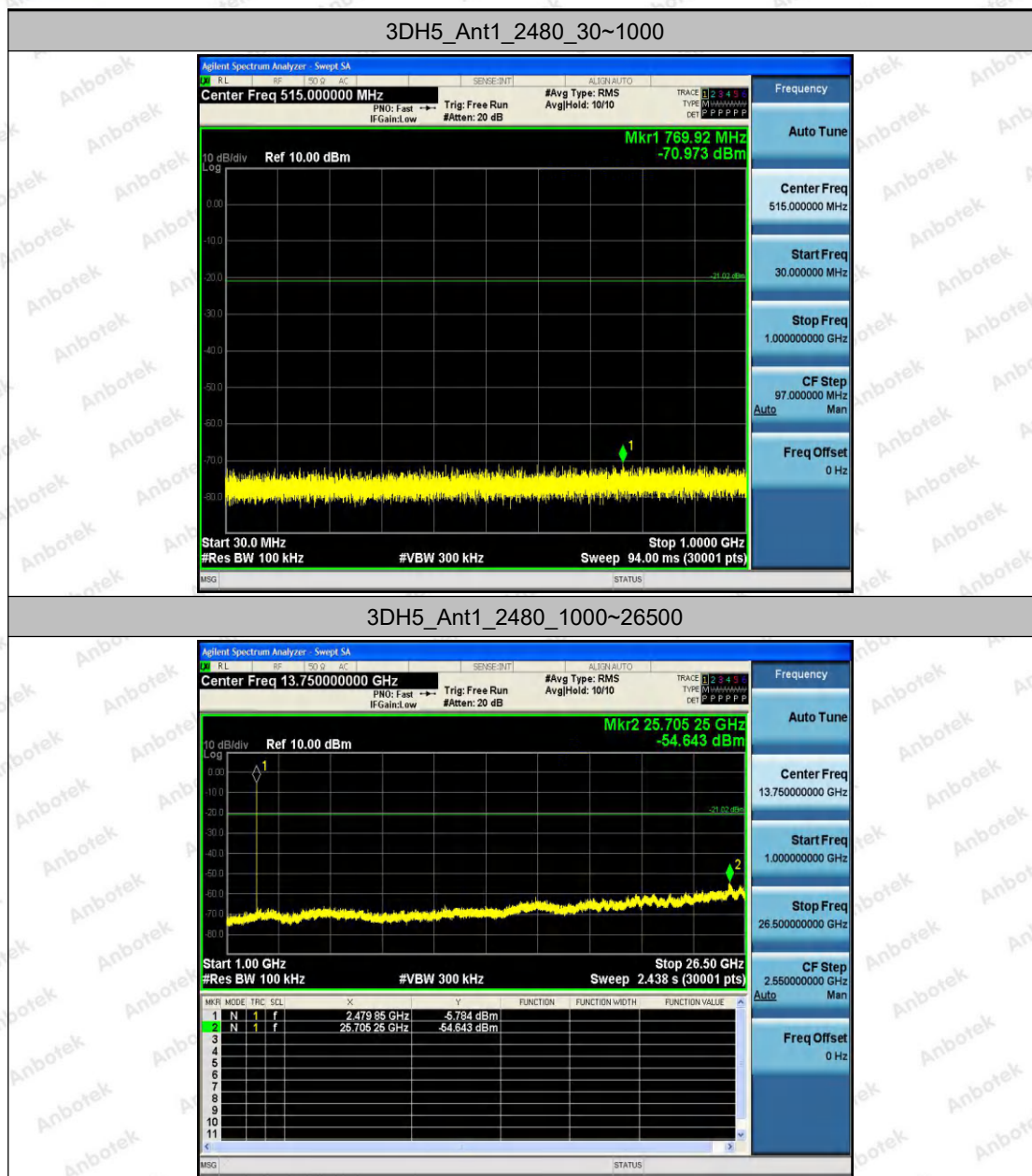


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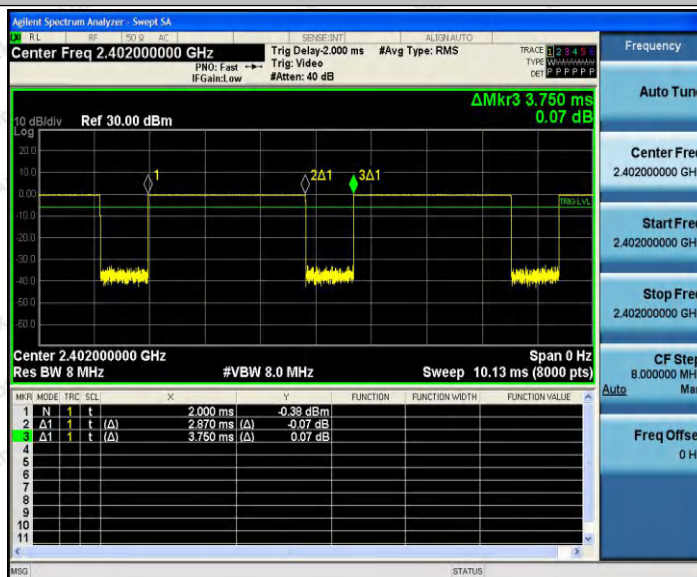
Appendix I: Duty Cycle

Test Result

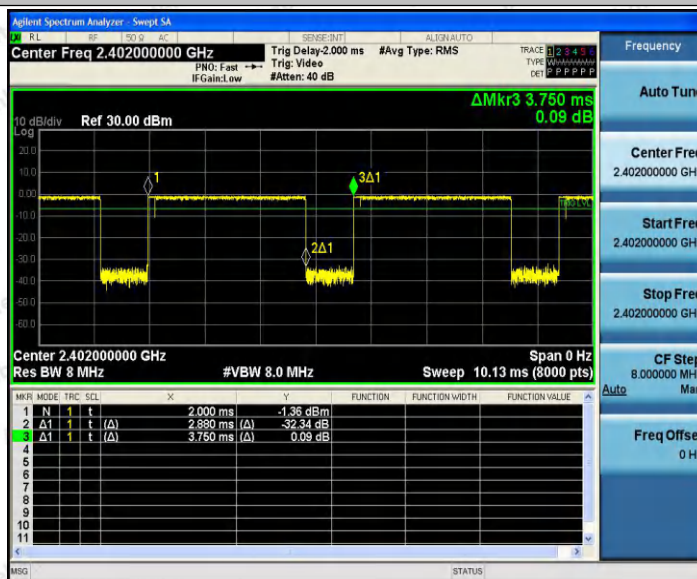
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

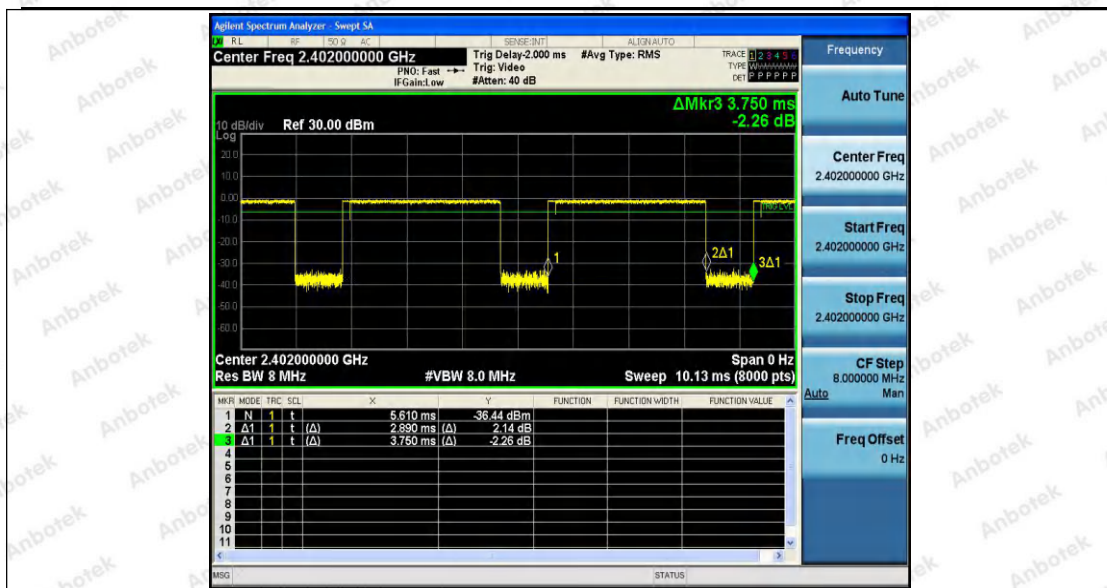
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---