

Appendix Test Data

Report No.:	18220WC20085401	Test Sample No.:	1-2-2
Start Test Date:	2022.4.19	Finish Test Date:	2022.4.25
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

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.538	2402.480	---	PASS
		2441	0.936	2440.538	2441.474	---	PASS
		2480	0.942	2479.541	2480.483	---	PASS
2DH5	Ant1	2402	1.275	2401.361	2402.636	---	PASS
		2441	1.317	2440.340	2441.657	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.296	2440.349	2441.645	---	PASS
		2480	1.326	2479.334	2480.660	---	PASS

Test Graphs

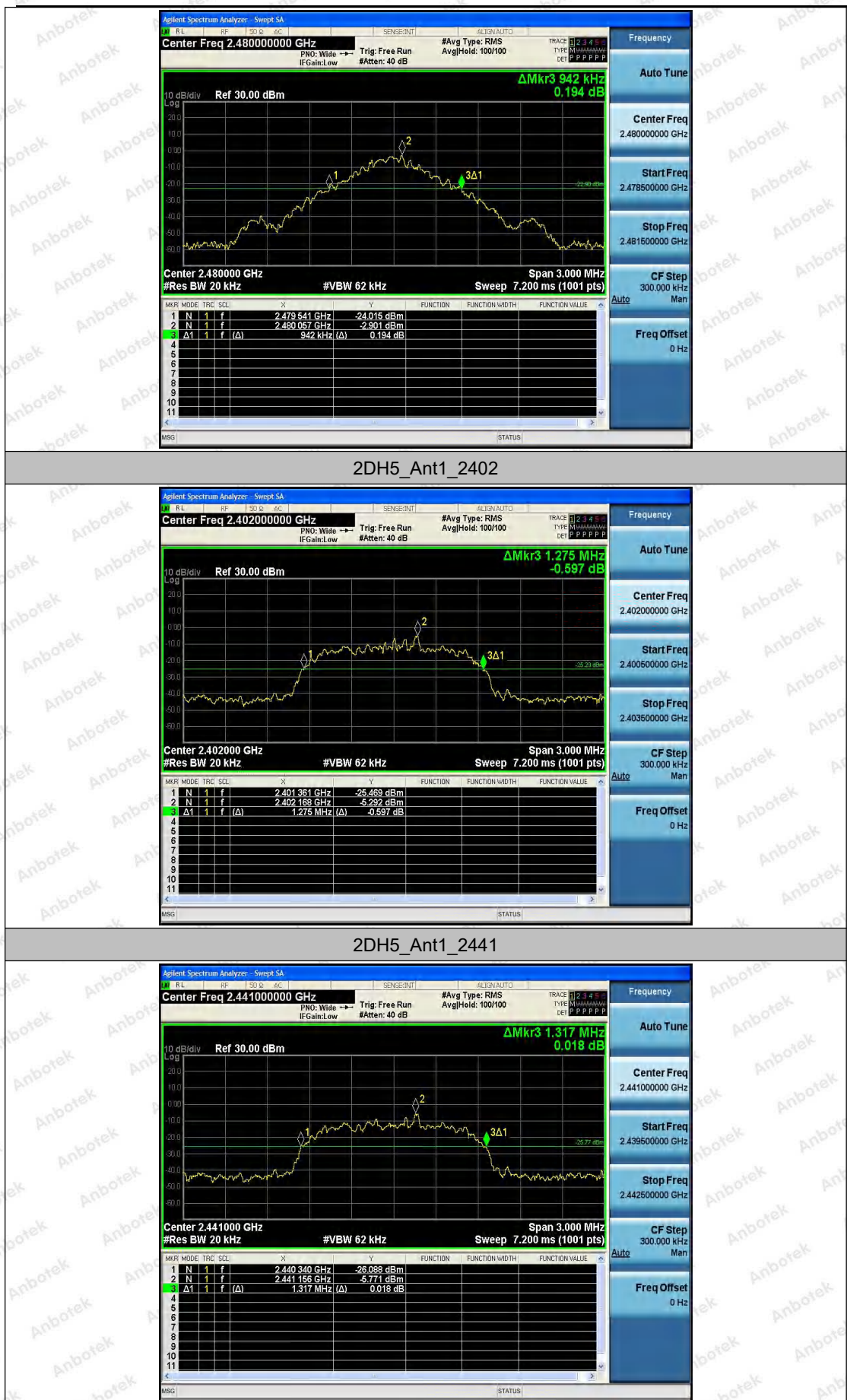


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88678	2401.556	2402.443	---	PASS
		2441	0.89108	2440.555	2441.446	---	PASS
		2480	0.89281	2479.556	2480.449	---	PASS
2DH5	Ant1	2402	1.1984	2401.401	2402.599	---	PASS
		2441	1.1944	2440.403	2441.597	---	PASS
		2480	1.1897	2479.405	2480.594	---	PASS
3DH5	Ant1	2402	1.2044	2401.390	2402.594	---	PASS
		2441	1.2114	2440.386	2441.597	---	PASS
		2480	1.1954	2479.397	2480.593	---	PASS

Test Graphs



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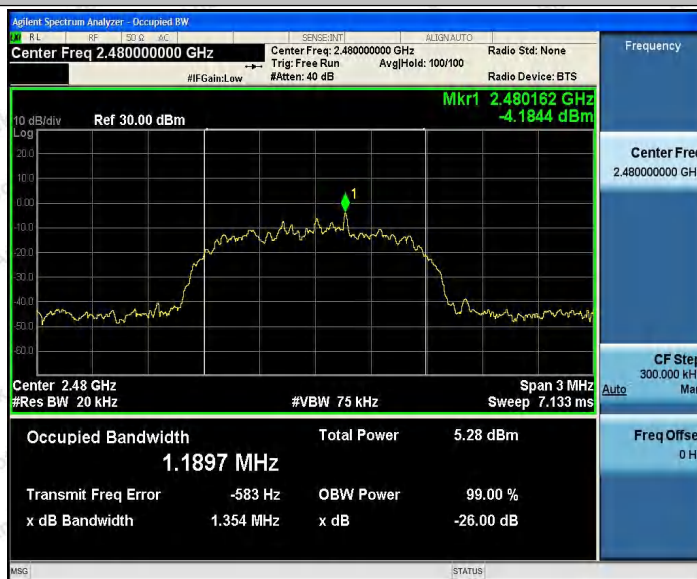
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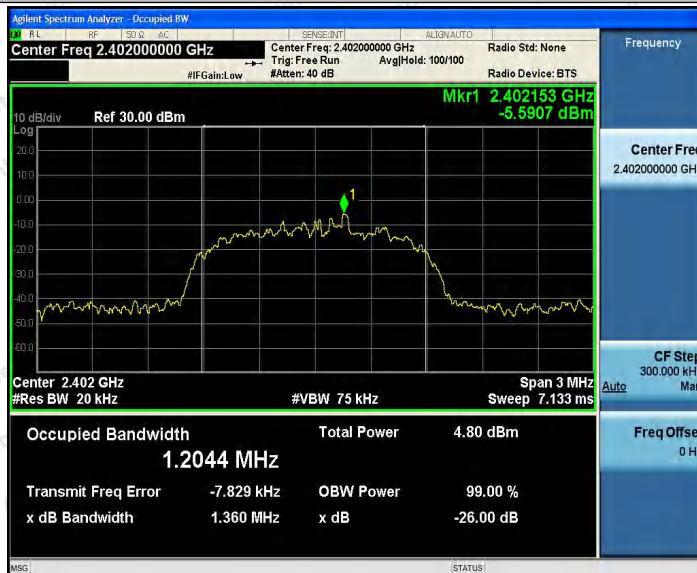
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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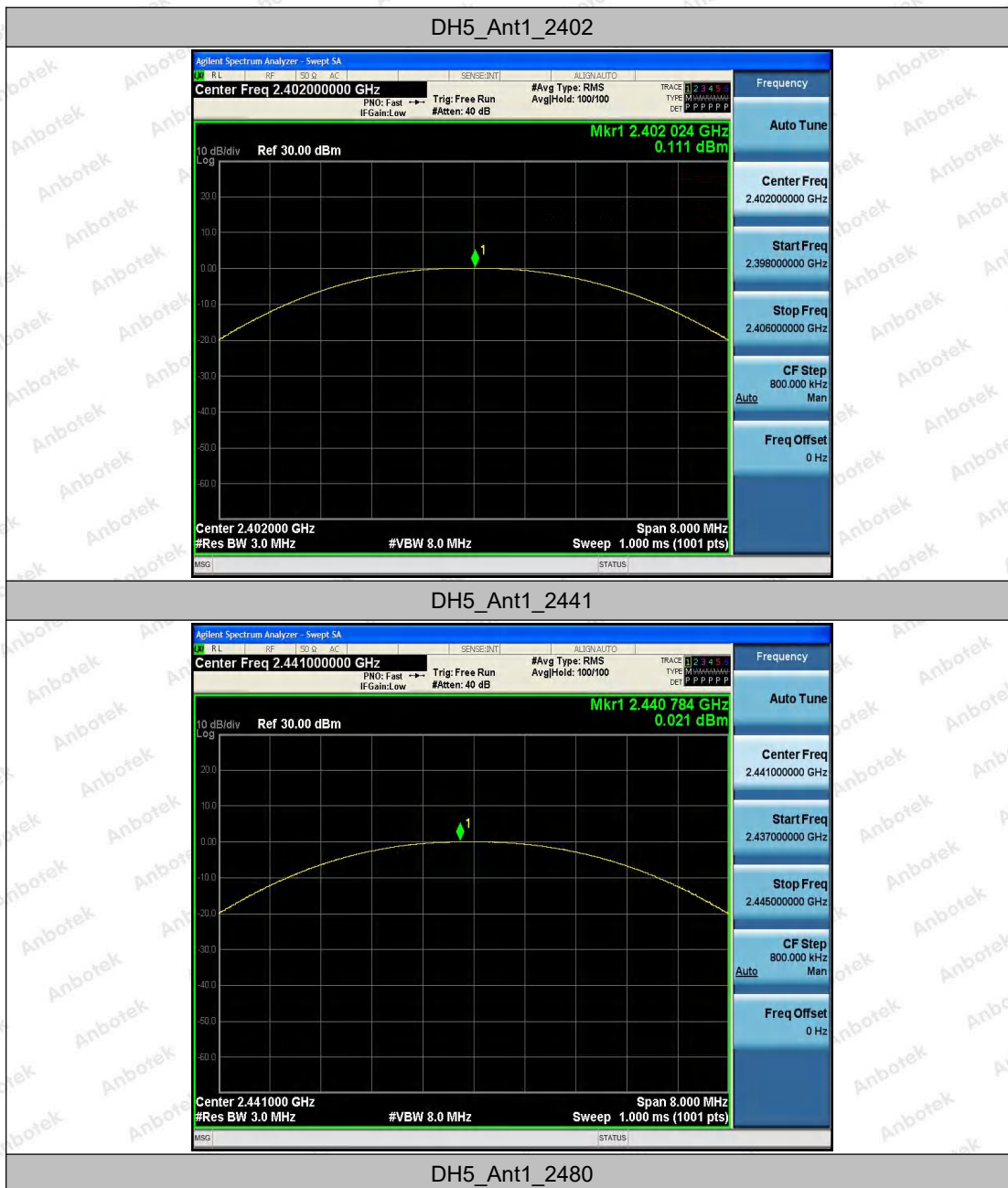
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.11	≤30	PASS
		2441	0.02	≤30	PASS
		2480	0.57	≤30	PASS
2DH5	Ant1	2402	-0.56	≤20.97	PASS
		2441	-0.63	≤20.97	PASS
		2480	-0.15	≤20.97	PASS
3DH5	Ant1	2402	-0.44	≤20.97	PASS
		2441	-0.53	≤20.97	PASS
		2480	-0.04	≤20.97	PASS

Test Graphs

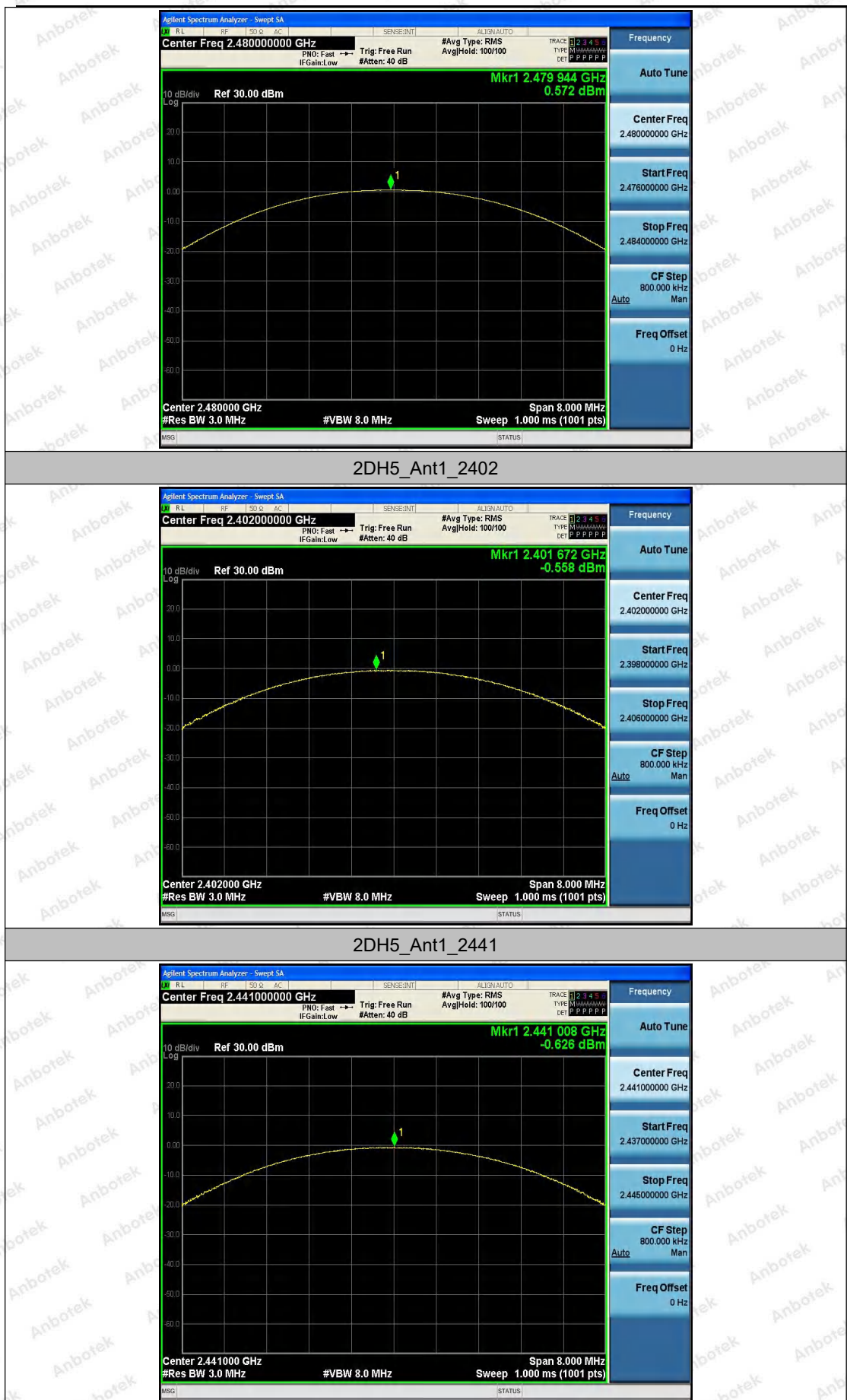


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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.086	≥ 0.942	PASS
2DH5	Ant1	Hop	0.886	≥ 0.882	PASS
3DH5	Ant1	Hop	1.294	≥ 0.884	PASS

Test Graphs





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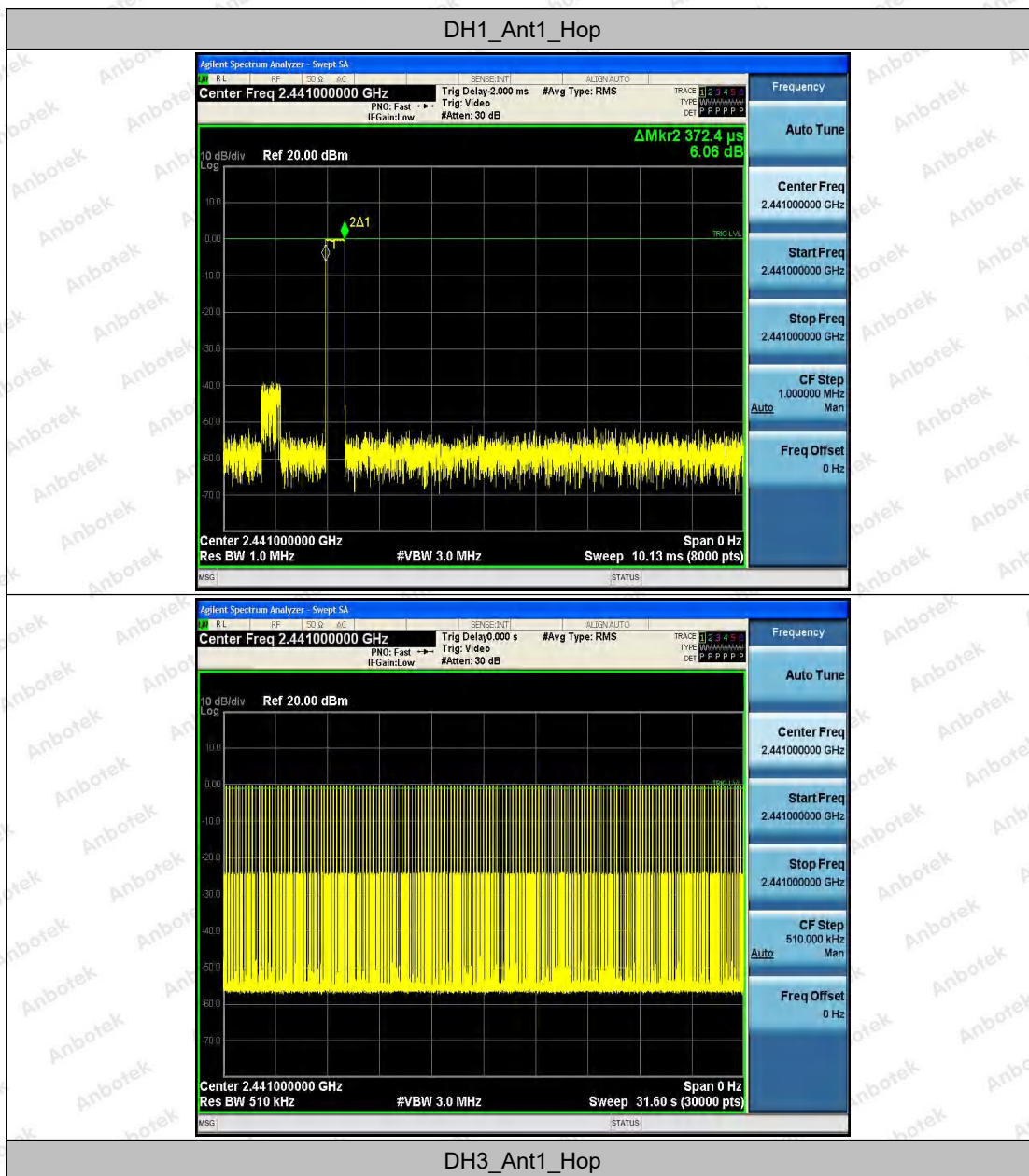
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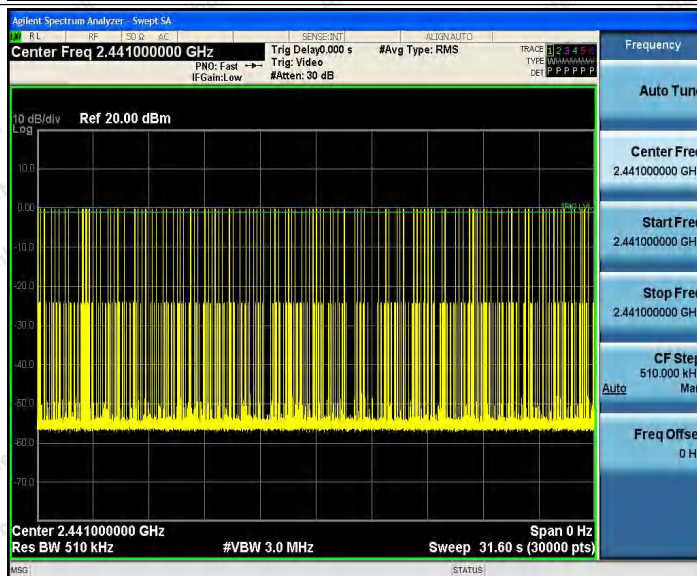
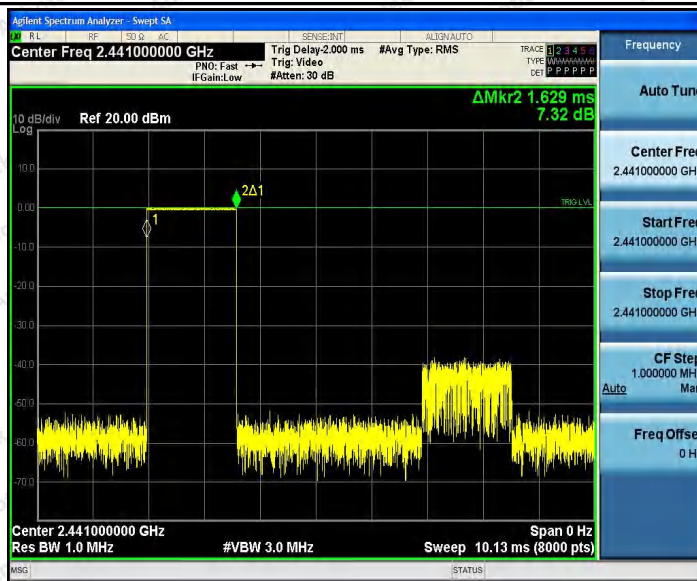
Appendix E: Time of occupancy

Test Result

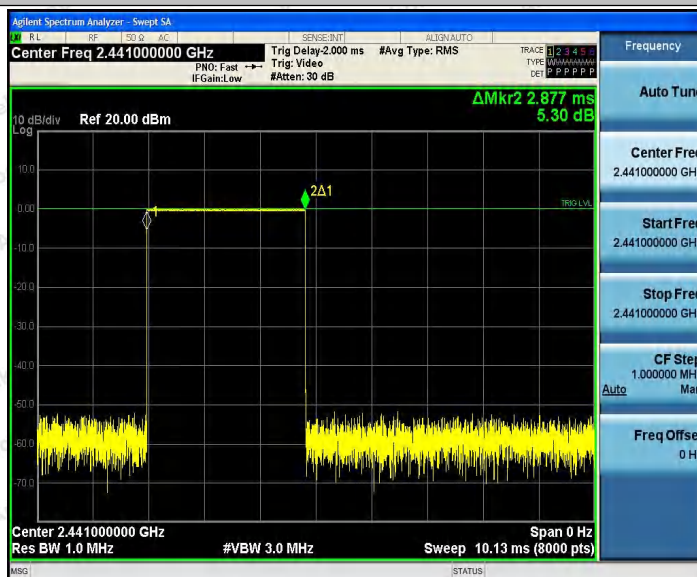
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop



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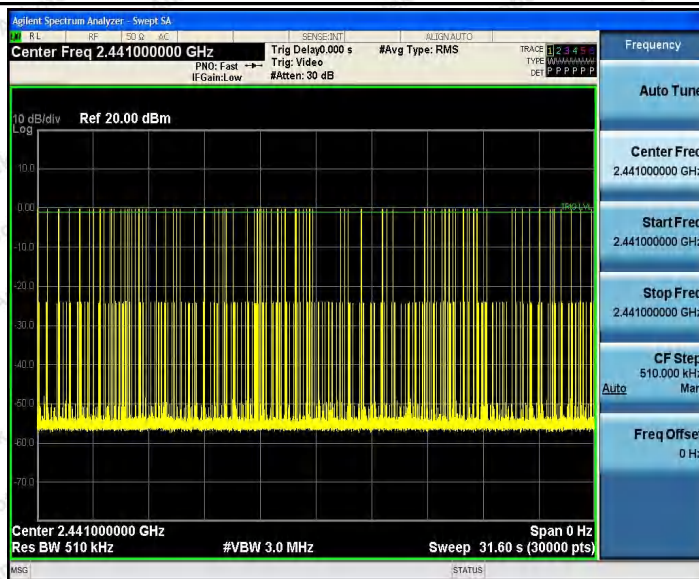
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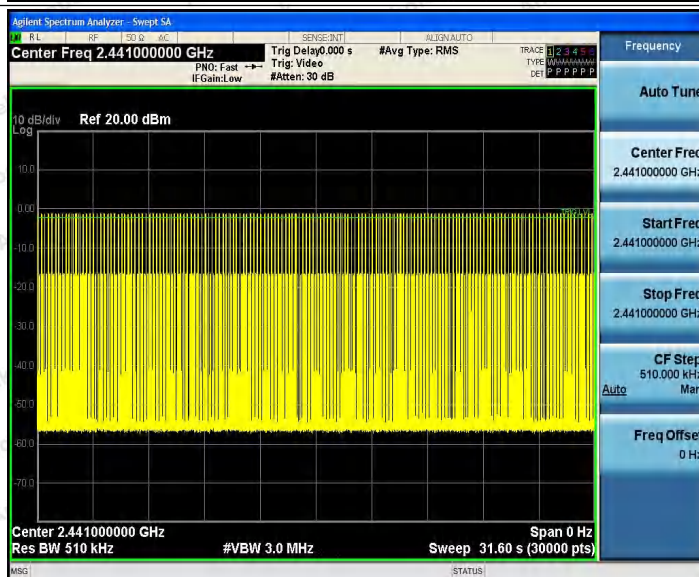
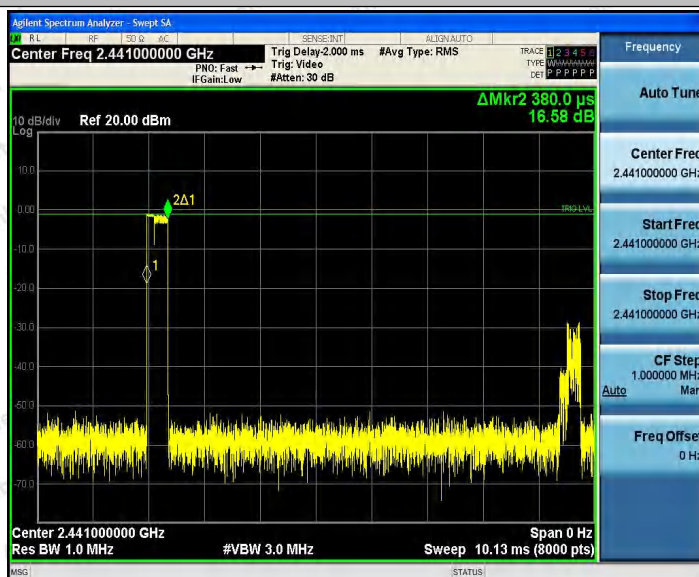
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

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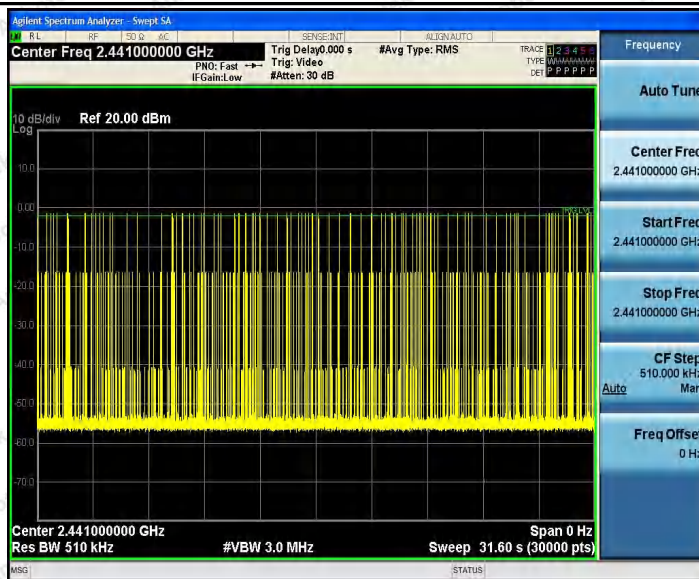


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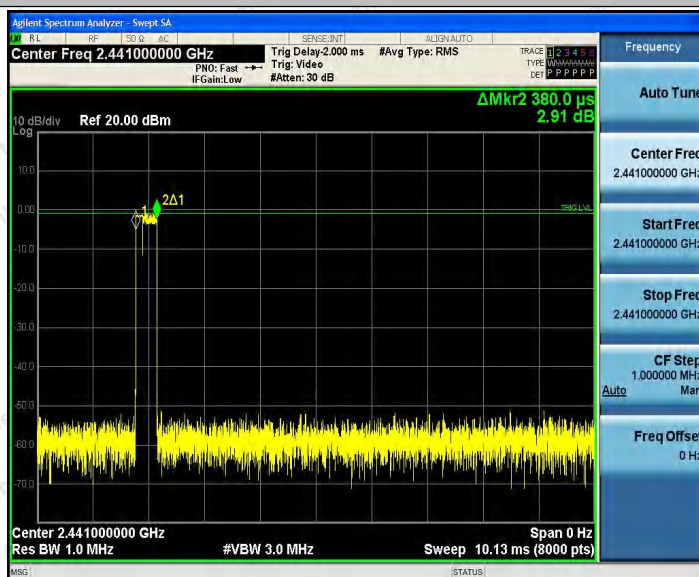
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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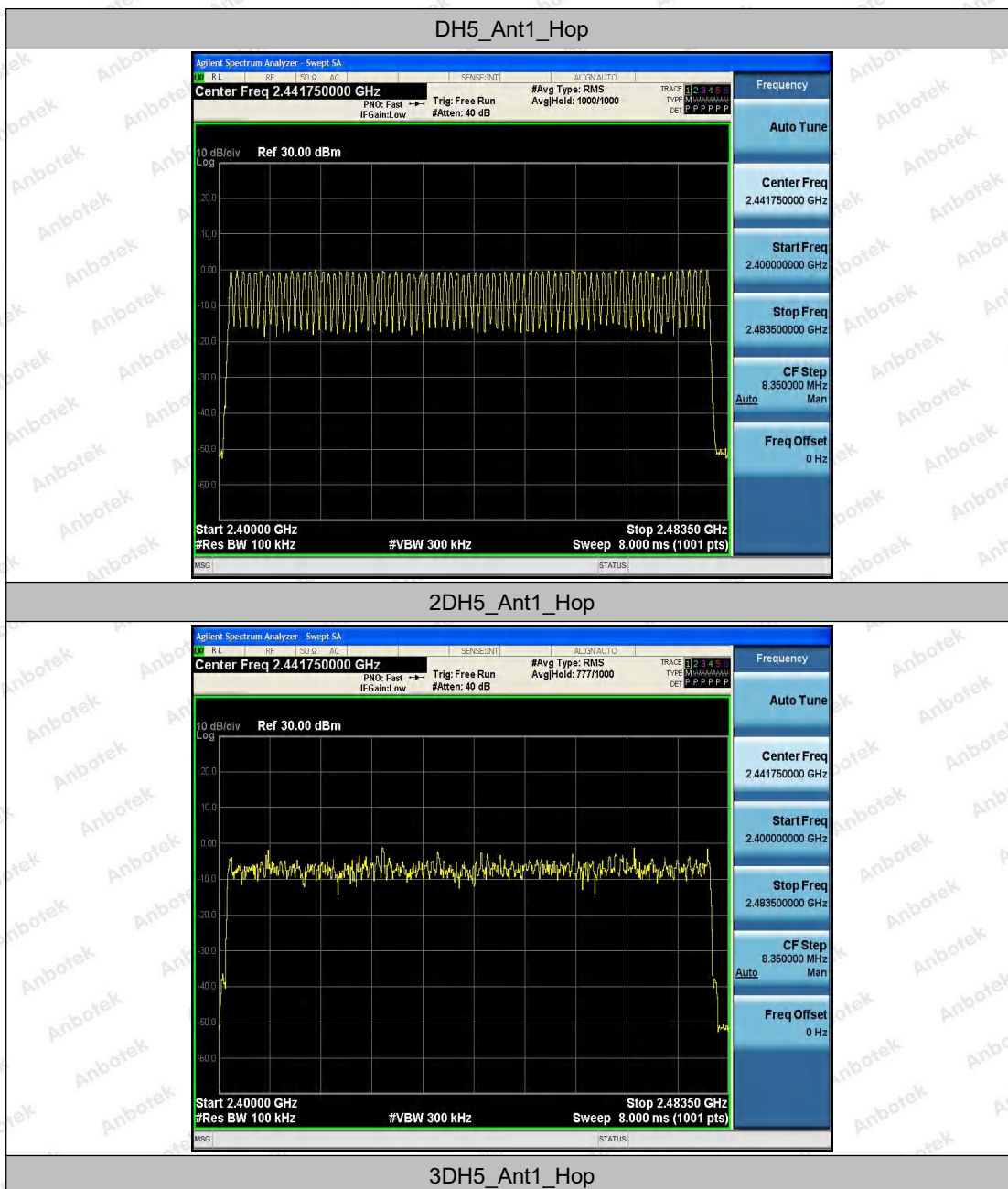
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Appendix F: Number of hopping channels

Test Result

Test Mode	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

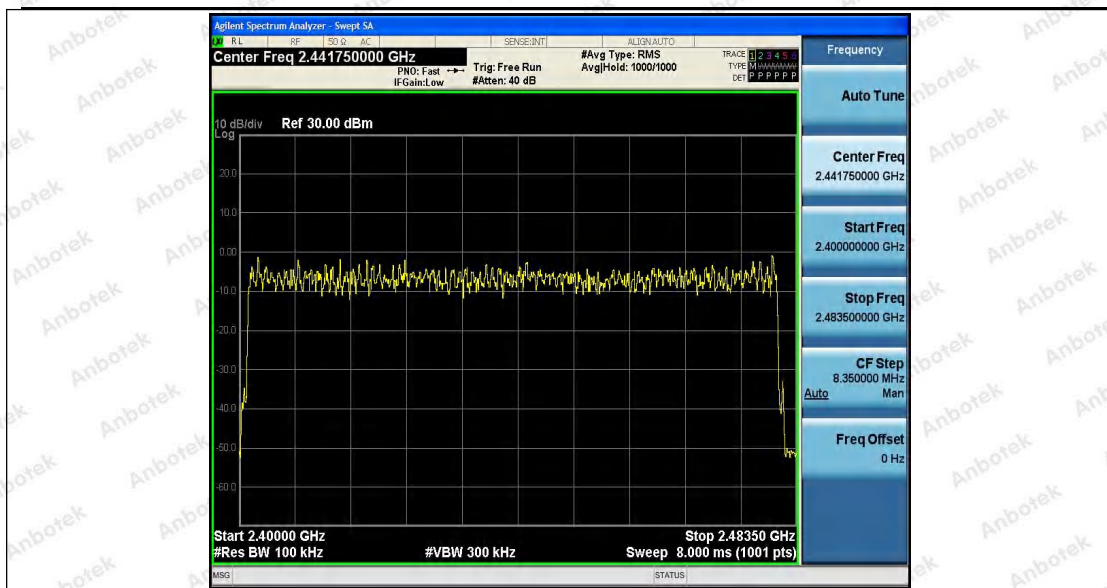


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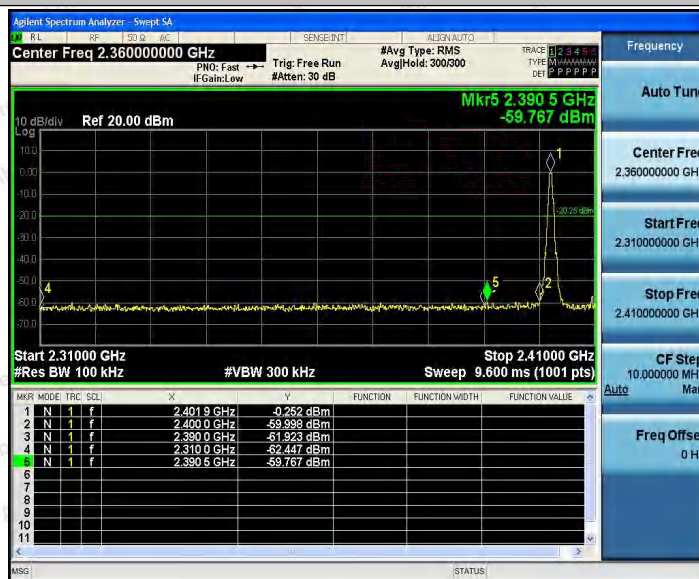
Appendix G: Band edge measurements

Test Result

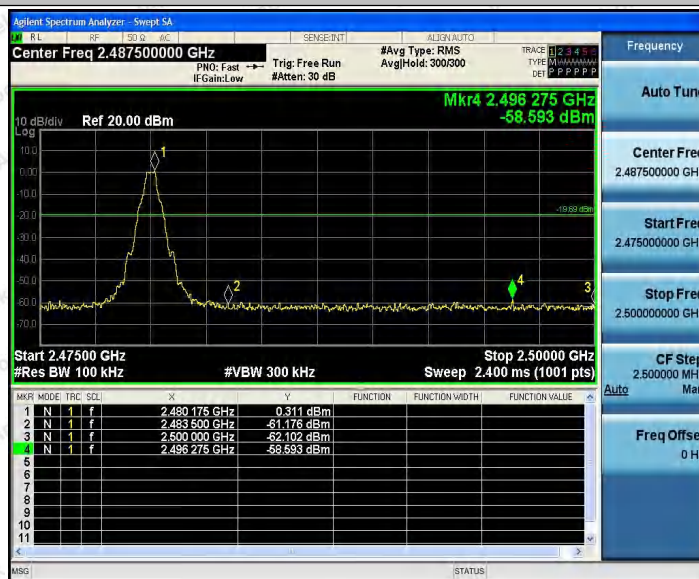
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.25	-59.77	≤ -20.25	PASS
		High	2480	0.31	-58.59	≤ -19.69	PASS
		Low	Hop	-0.74	-59.87	≤ -20.74	PASS
		High	Hop	-0.13	-61.94	≤ -20.13	PASS
2DH5	Ant1	Low	2402	-1.28	-55.98	≤ -21.28	PASS
		High	2480	-1.16	-59.11	≤ -21.16	PASS
		Low	Hop	-4.67	-59.69	≤ -24.67	PASS
		High	Hop	-3.30	-61.94	≤ -23.3	PASS
3DH5	Ant1	Low	2402	-1.86	-57.52	≤ -21.86	PASS
		High	2480	-1.96	-59.15	≤ -21.96	PASS
		Low	Hop	-2.85	-59.34	≤ -22.85	PASS
		High	Hop	-3.66	-61.57	≤ -23.66	PASS

Test Graphs

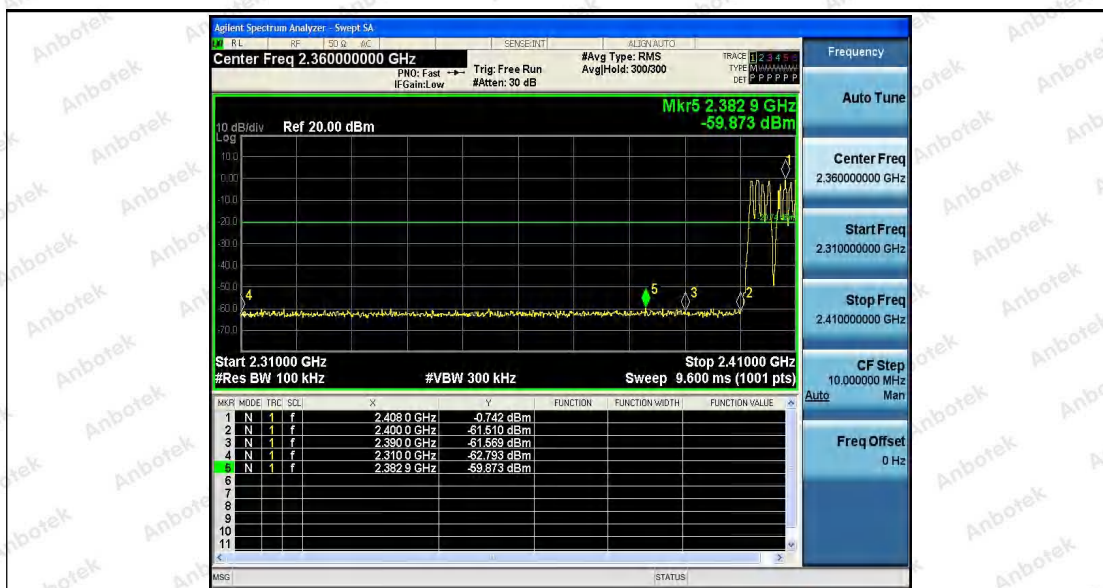
DH5_Ant1_Low_2402



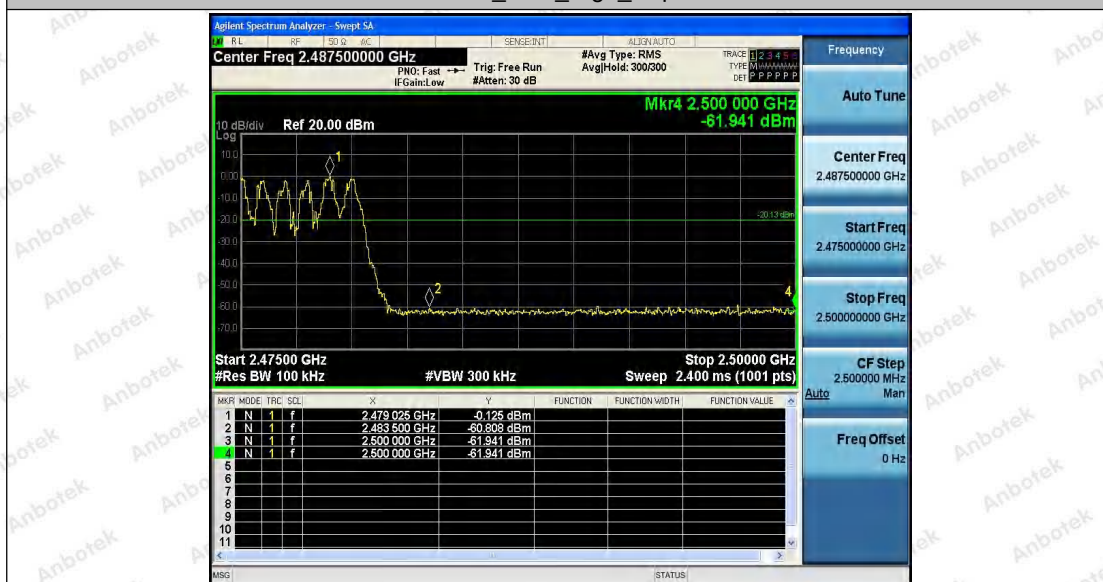
DH5_Ant1_High_2480



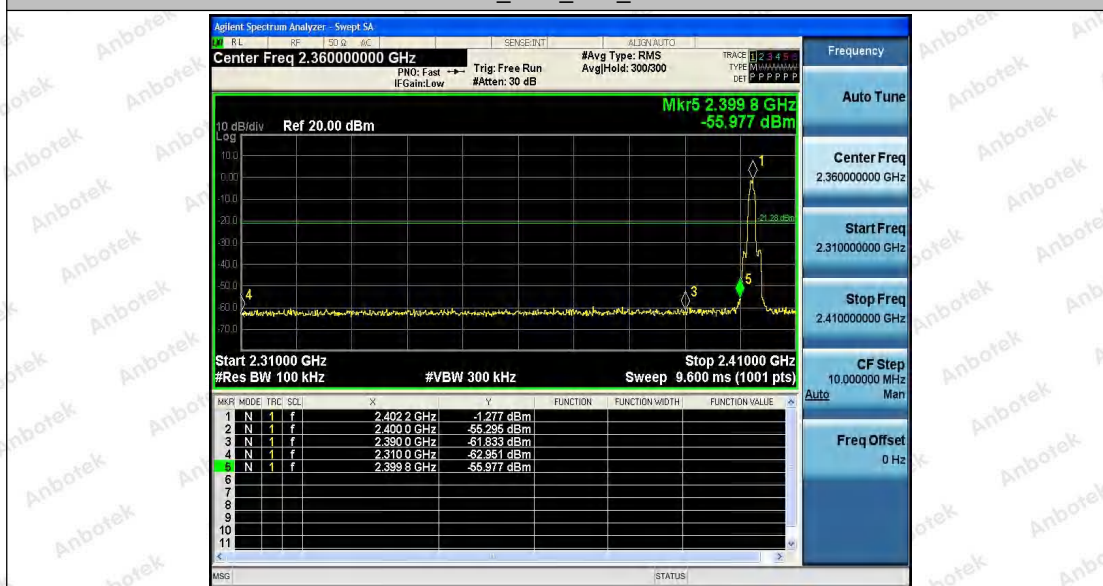
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



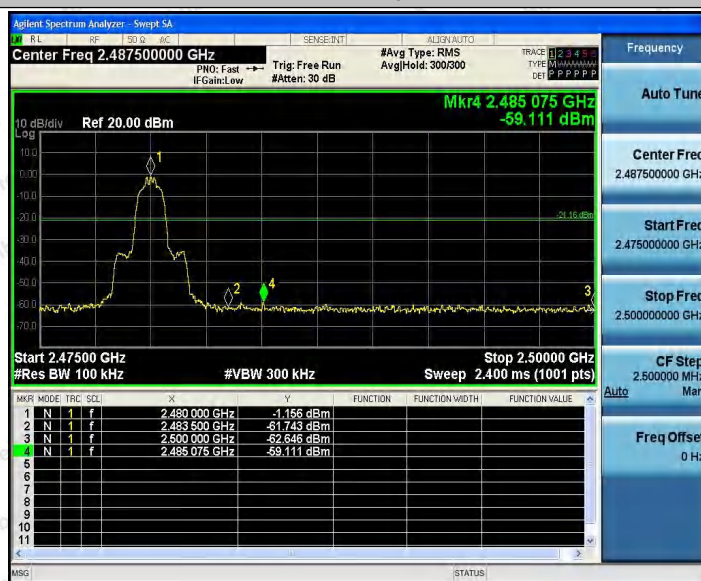
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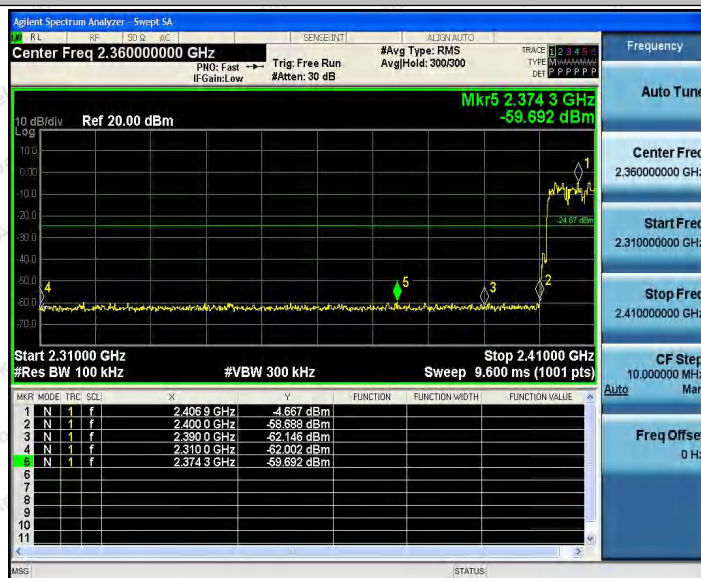
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



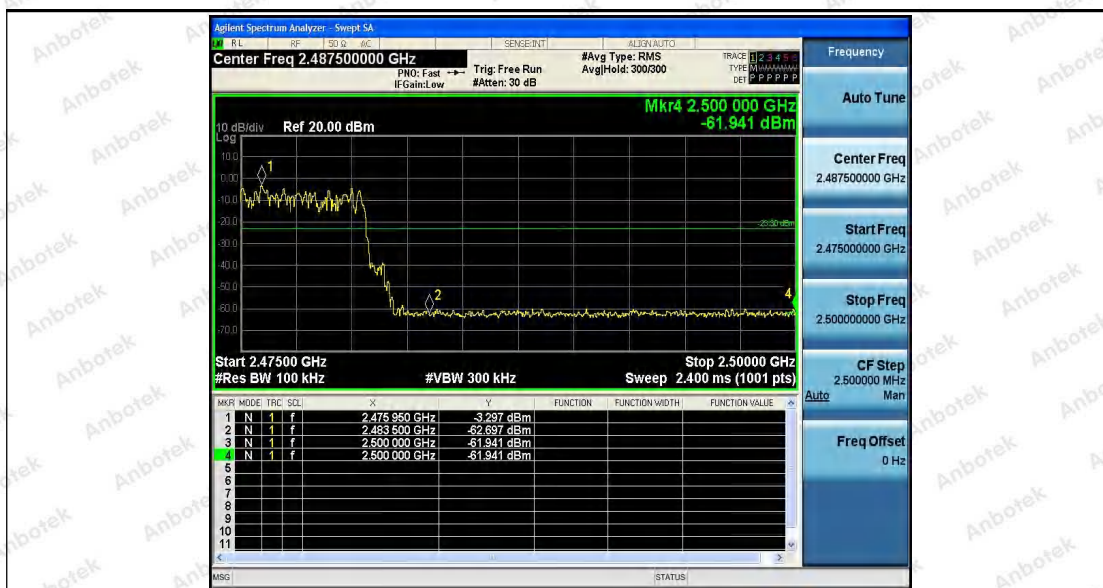
2DH5_Ant1_High_Hop

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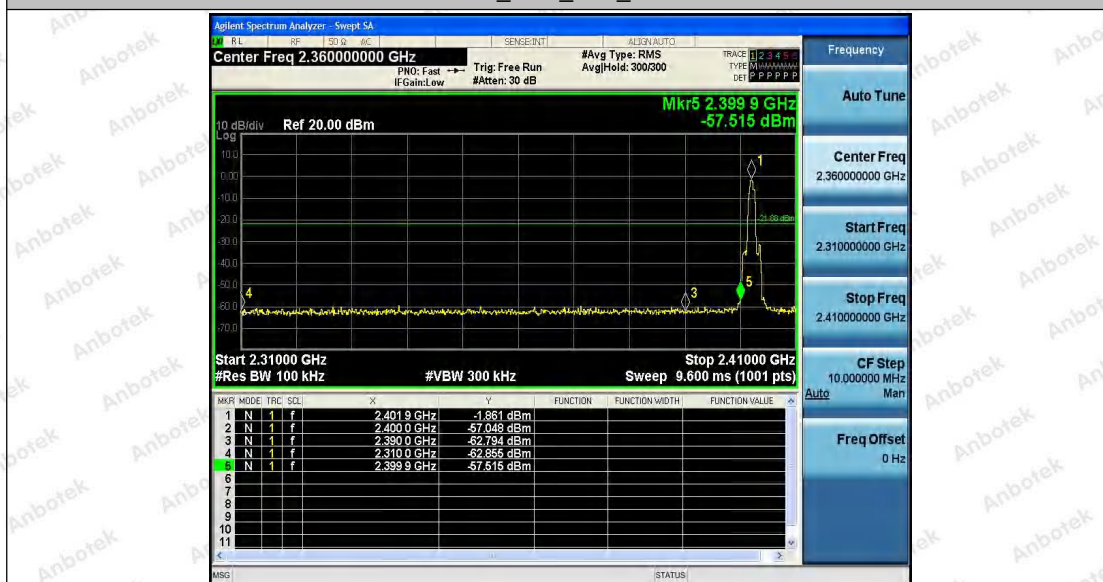
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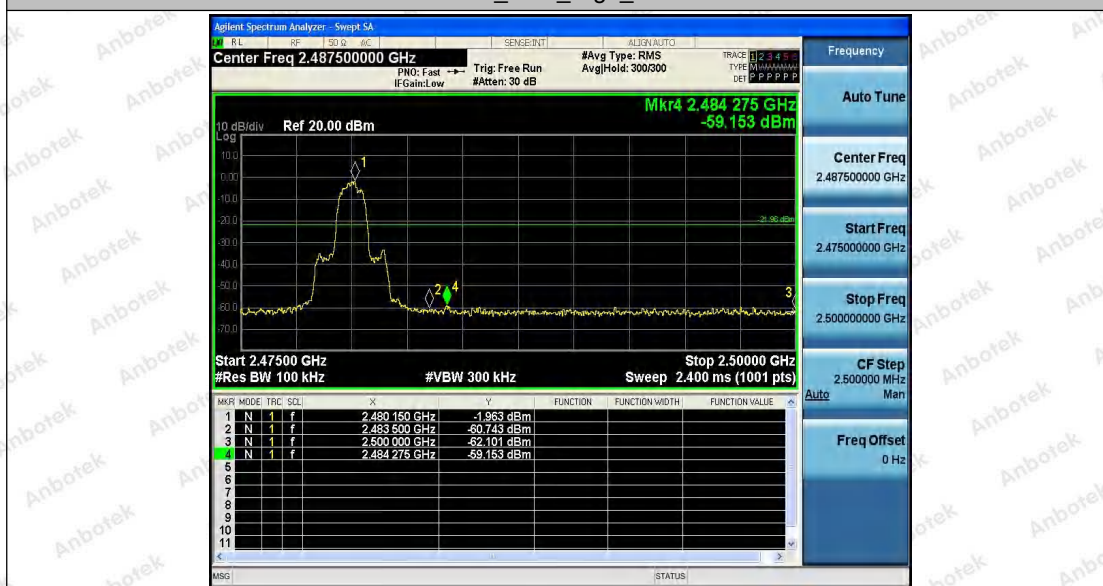
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-70.64	≤-20.7	PASS
			1000~26500	-0.70	-55.62	≤-20.7	PASS
		2441	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-69.28	≤-20.55	PASS
			1000~26500	-0.55	-55.01	≤-20.55	PASS
		2480	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-69.83	≤-19.87	PASS
			1000~26500	0.13	-55.09	≤-19.87	PASS
2DH5	Ant1	2402	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-69.92	≤-21.45	PASS
			1000~26500	-1.45	-55.23	≤-21.45	PASS
		2441	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-71.11	≤-21.72	PASS
			1000~26500	-1.72	-54.8	≤-21.72	PASS
		2480	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-70.4	≤-20.95	PASS
			1000~26500	-0.95	-54.45	≤-20.95	PASS
3DH5	Ant1	2402	Reference	-2.02	-2.02	---	PASS
			30~1000	-2.02	-70.6	≤-22.02	PASS
			1000~26500	-2.02	-54.82	≤-22.02	PASS
		2441	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-70.61	≤-21.39	PASS
			1000~26500	-1.39	-55.51	≤-21.39	PASS
		2480	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-70.13	≤-21.6	PASS
			1000~26500	-1.60	-55.75	≤-21.6	PASS

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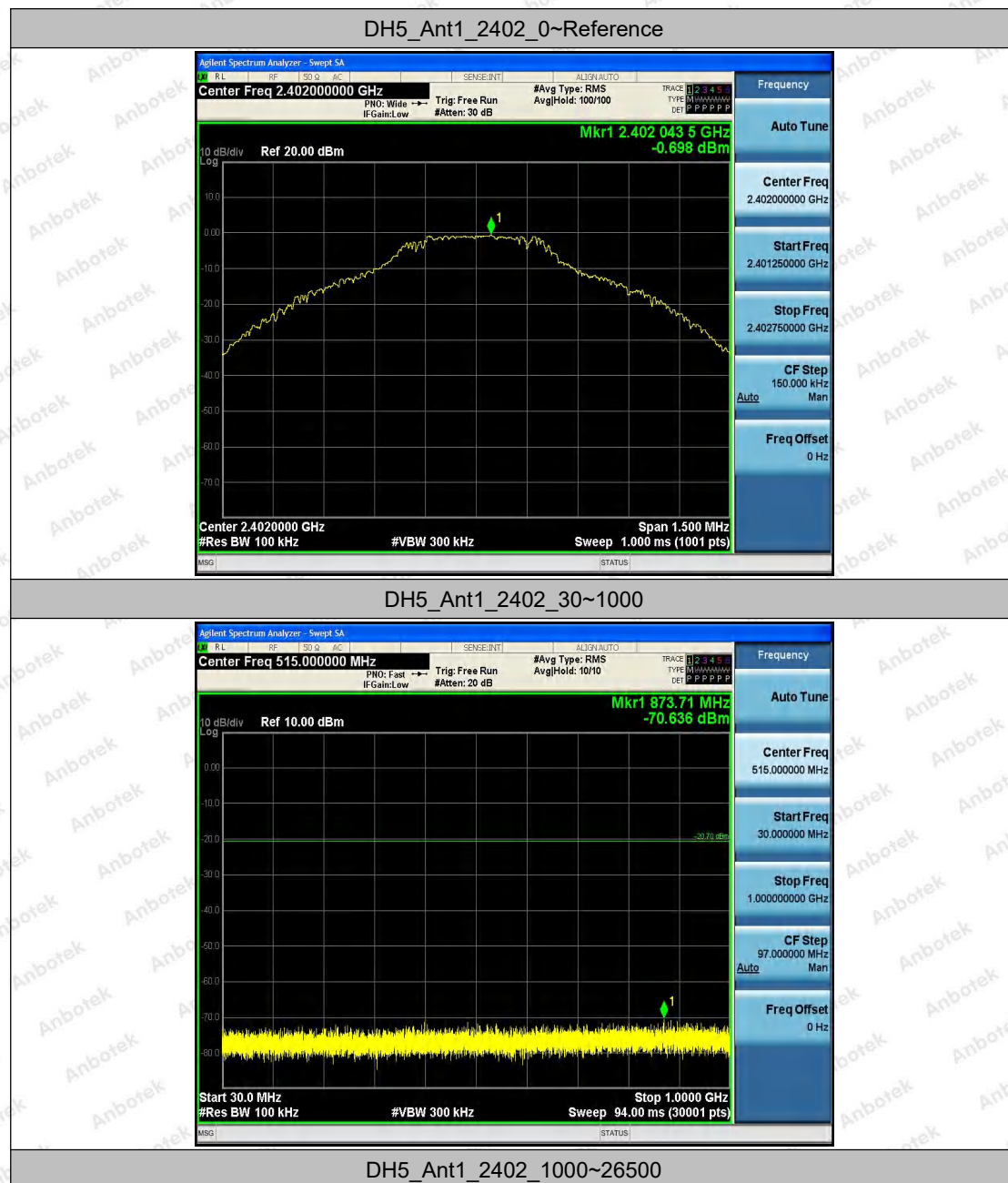


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Test Graphs

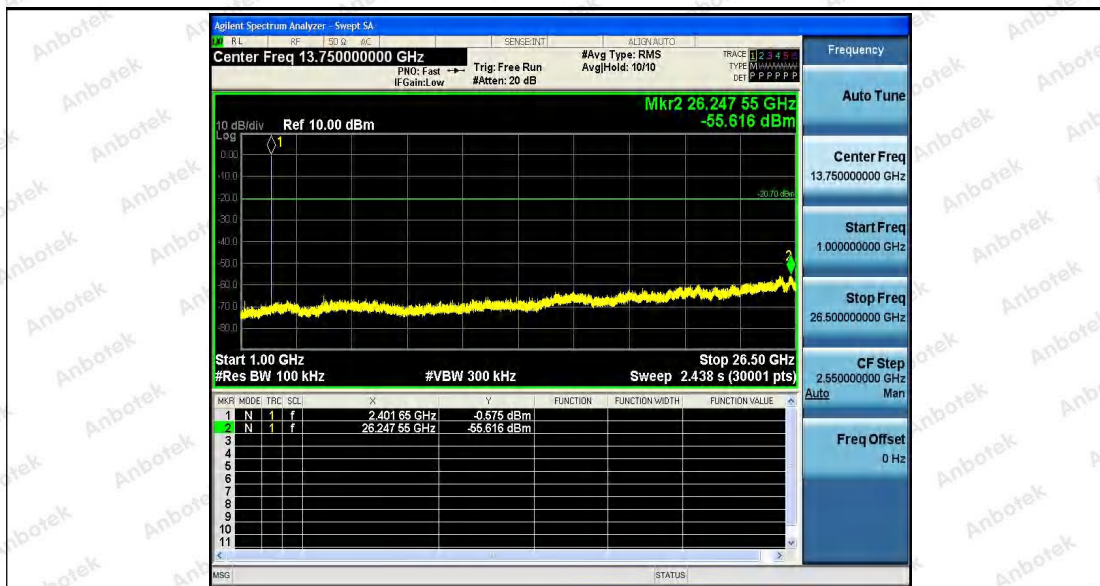


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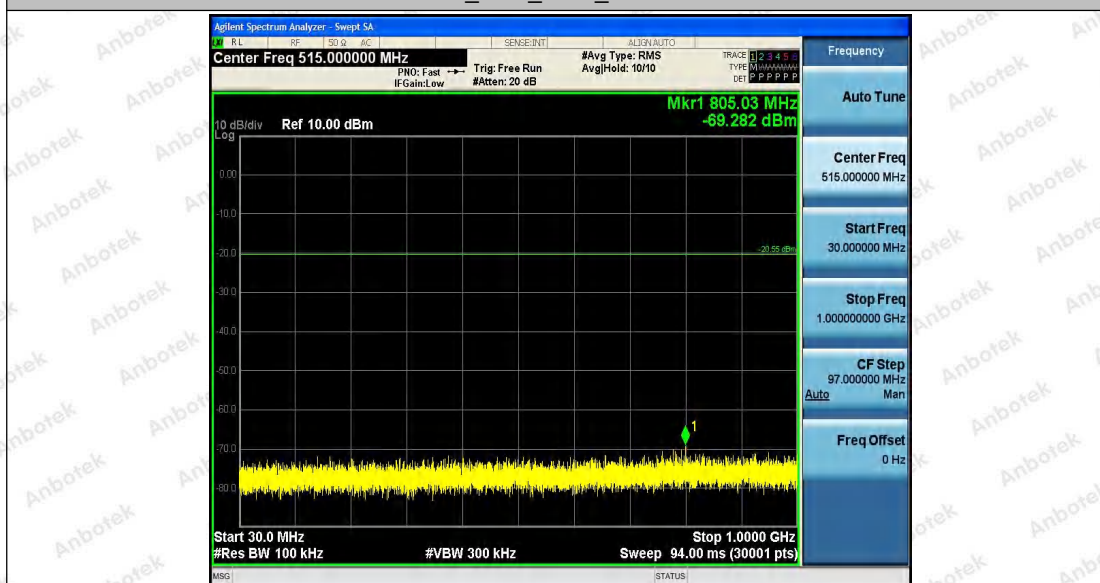
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



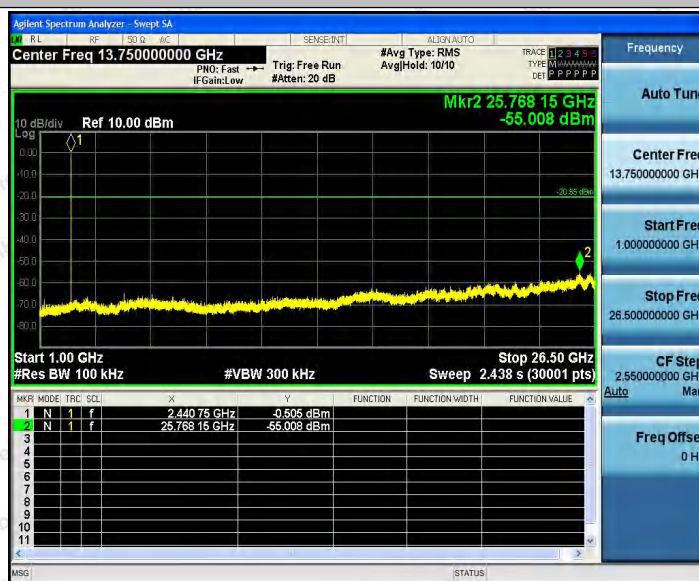
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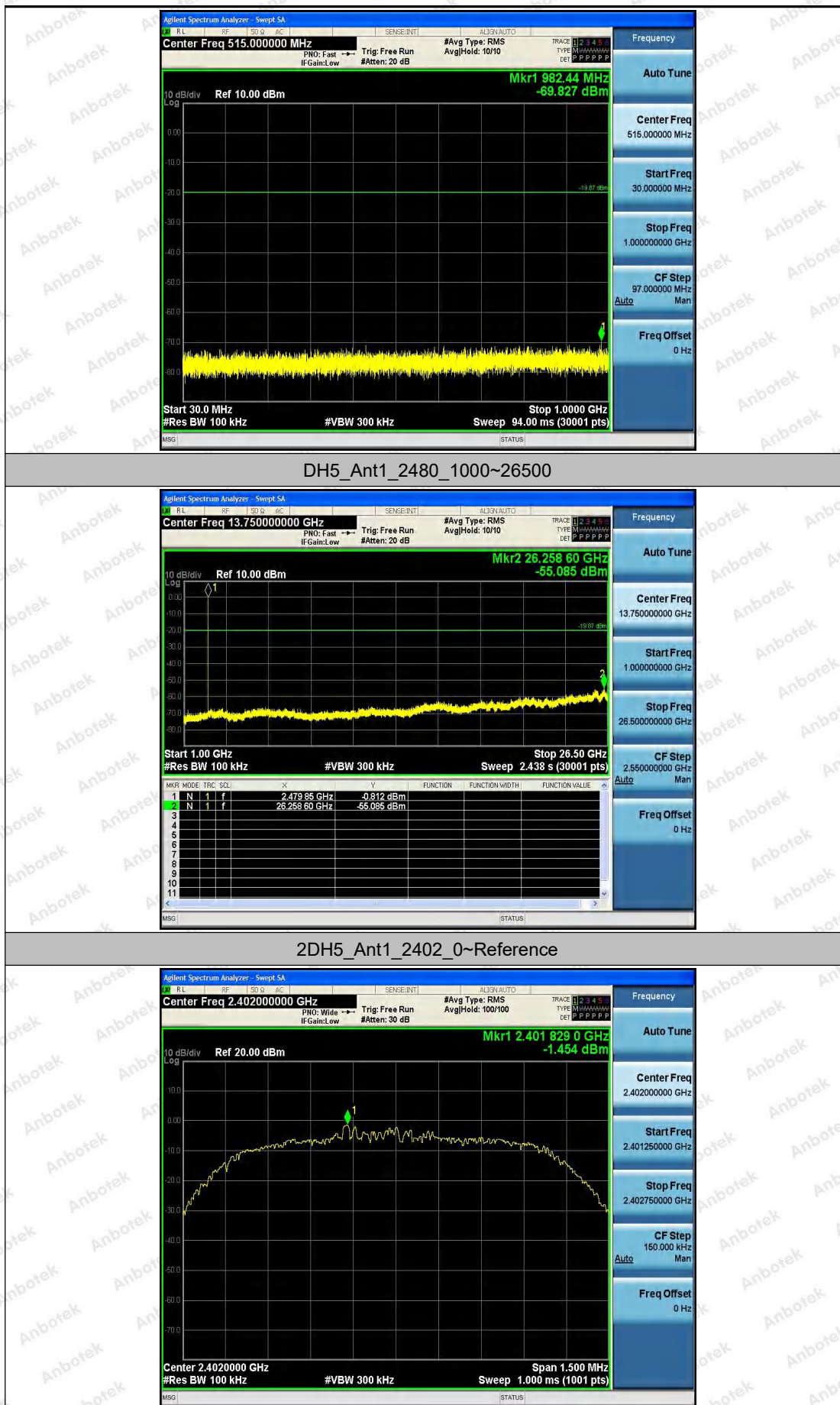
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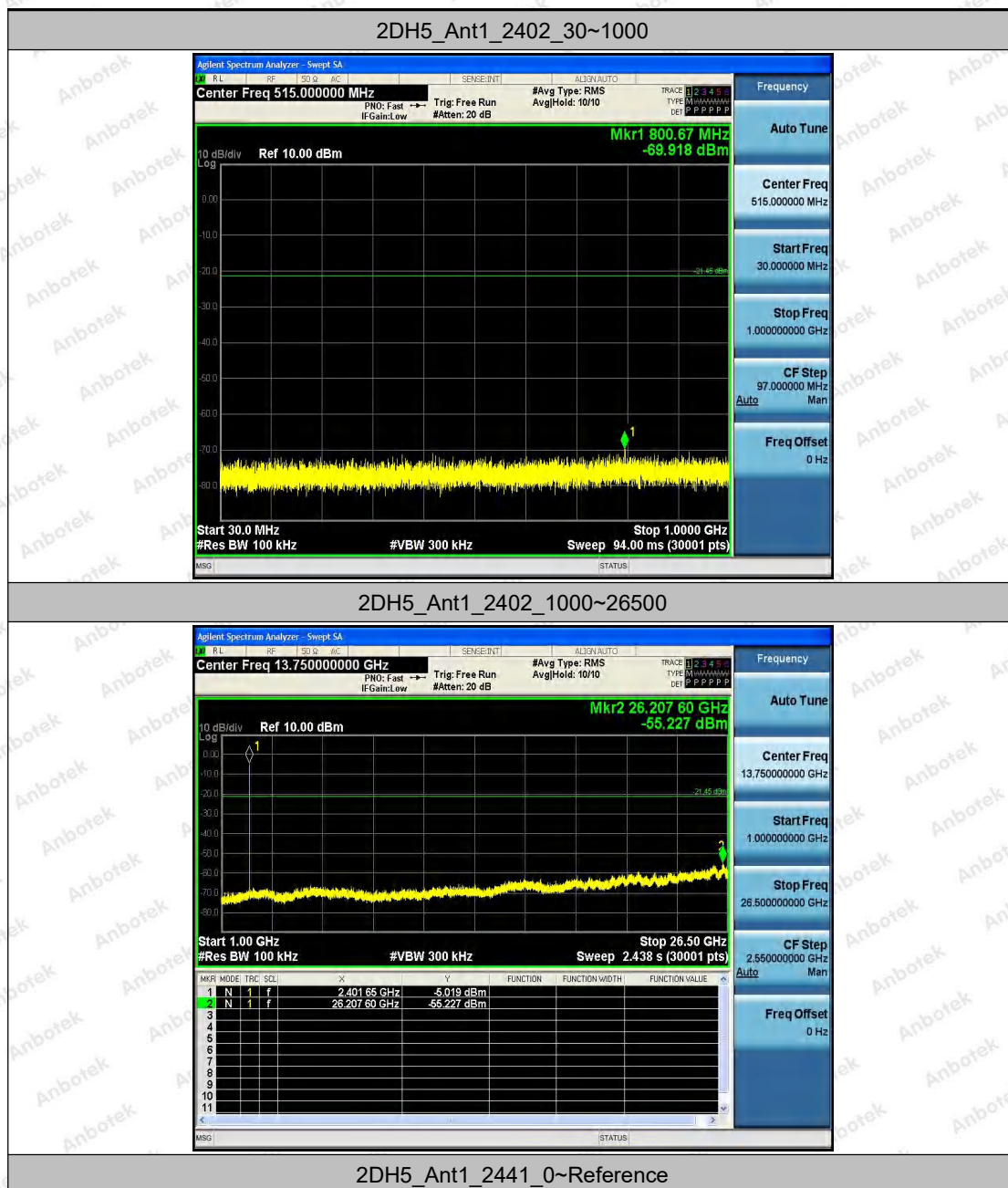


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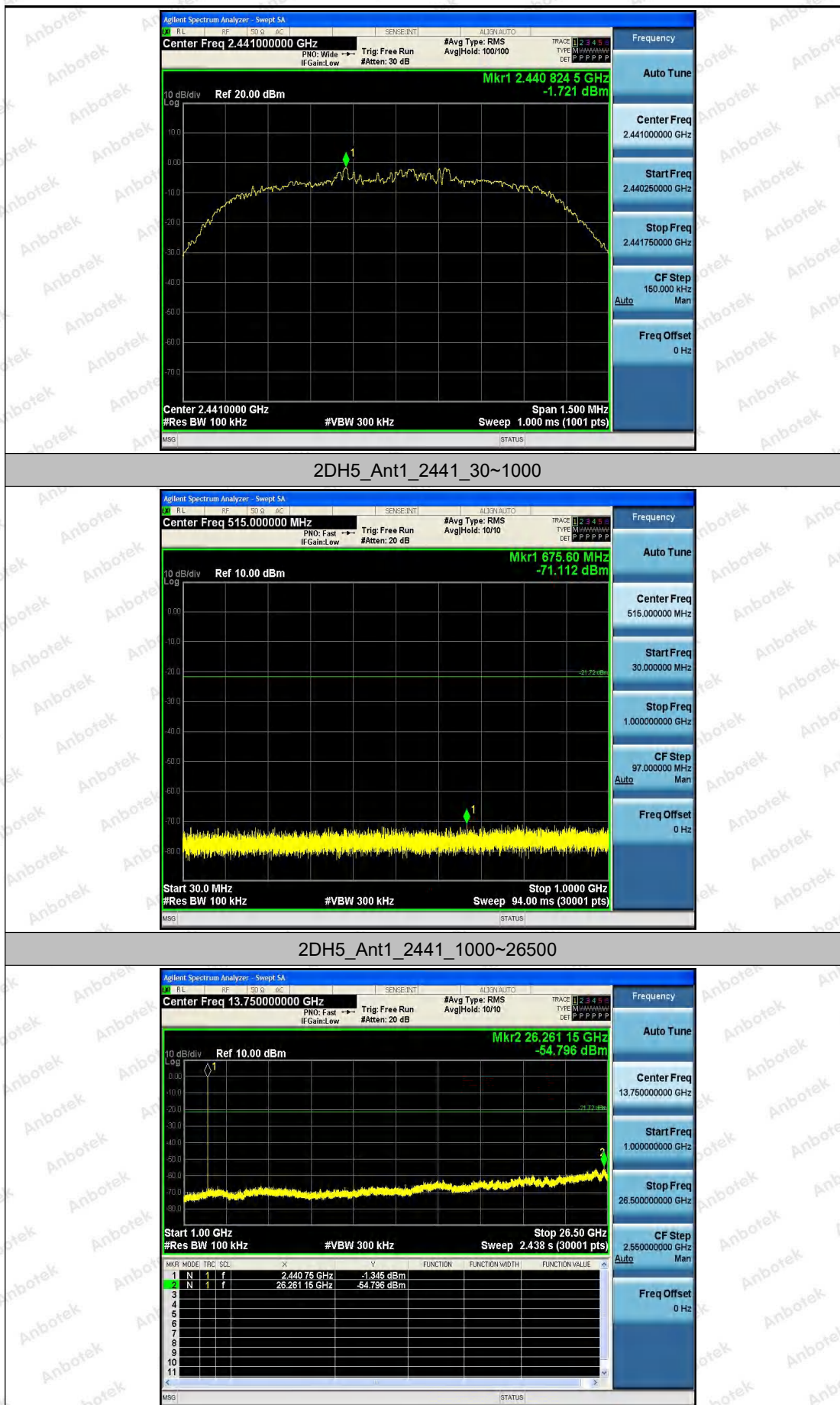


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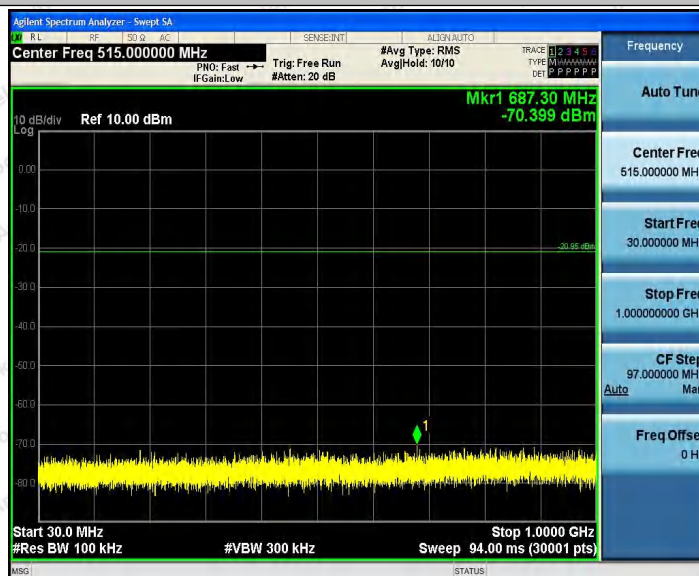
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



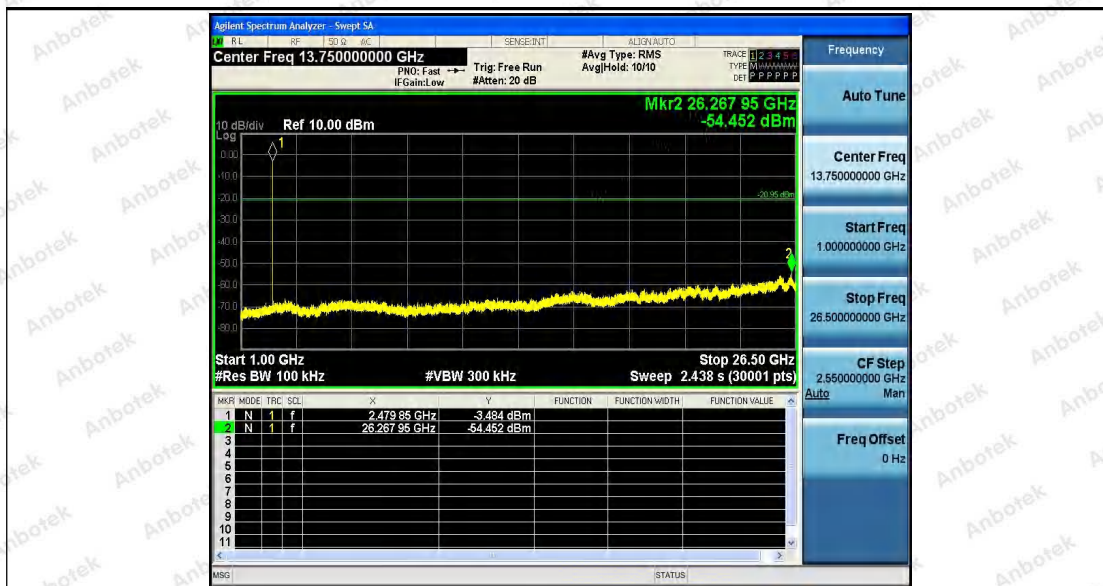
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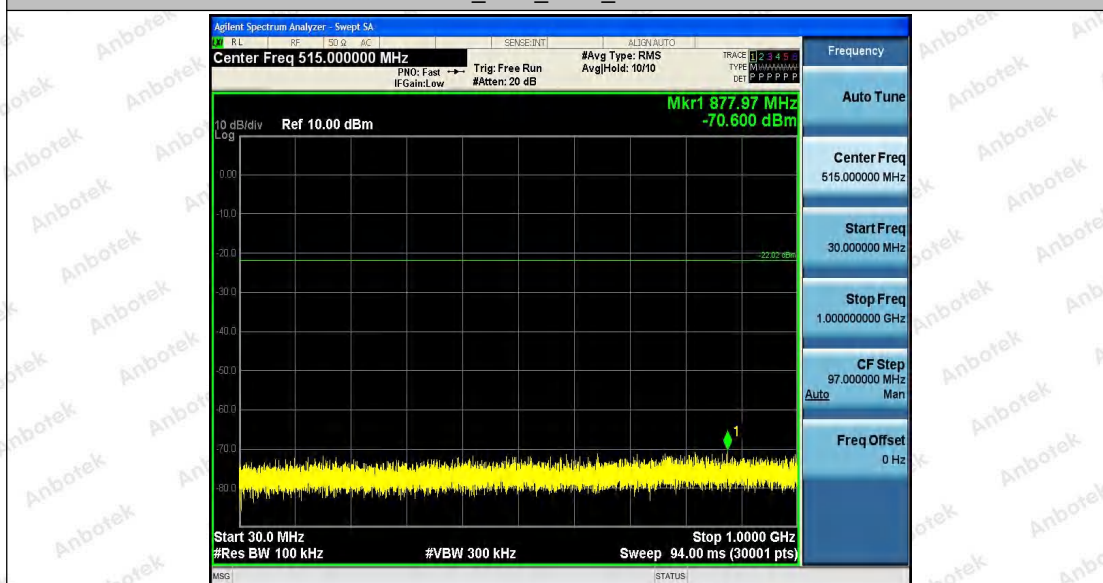
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3DH5_Ant1_2402_0~Reference



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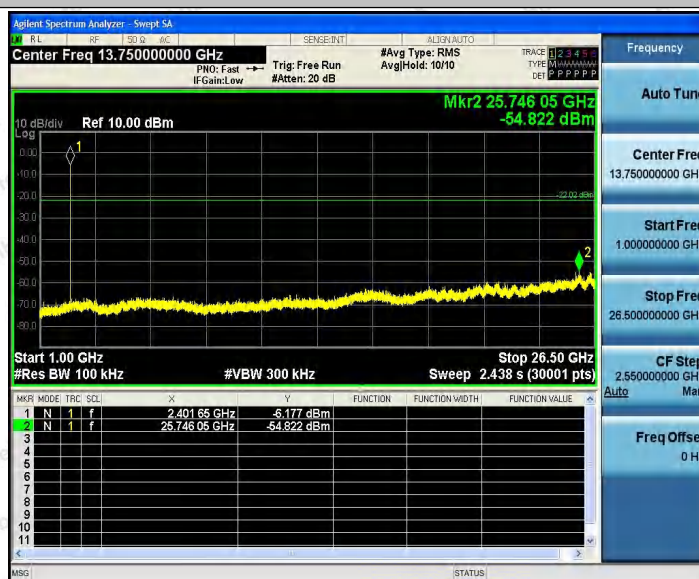
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



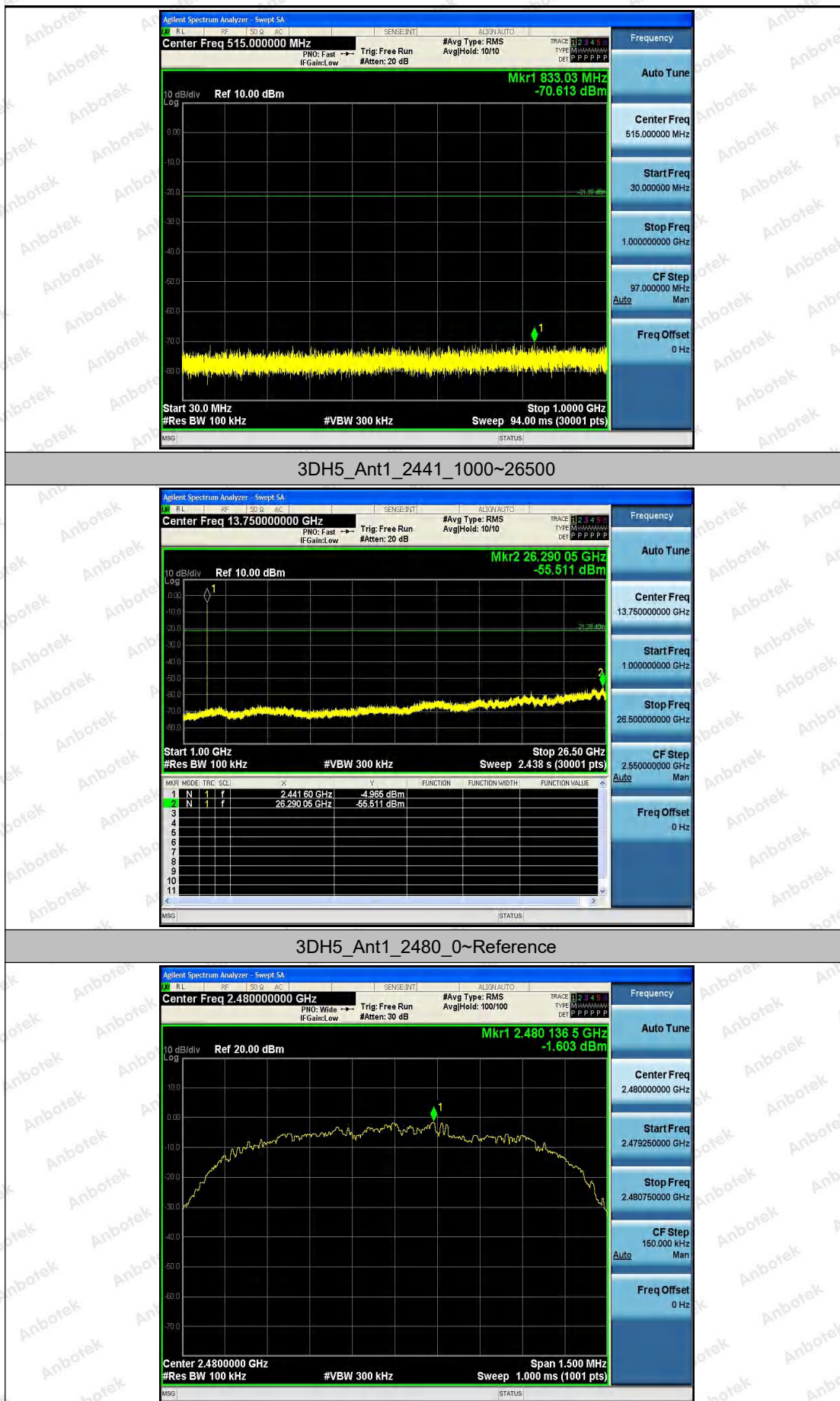
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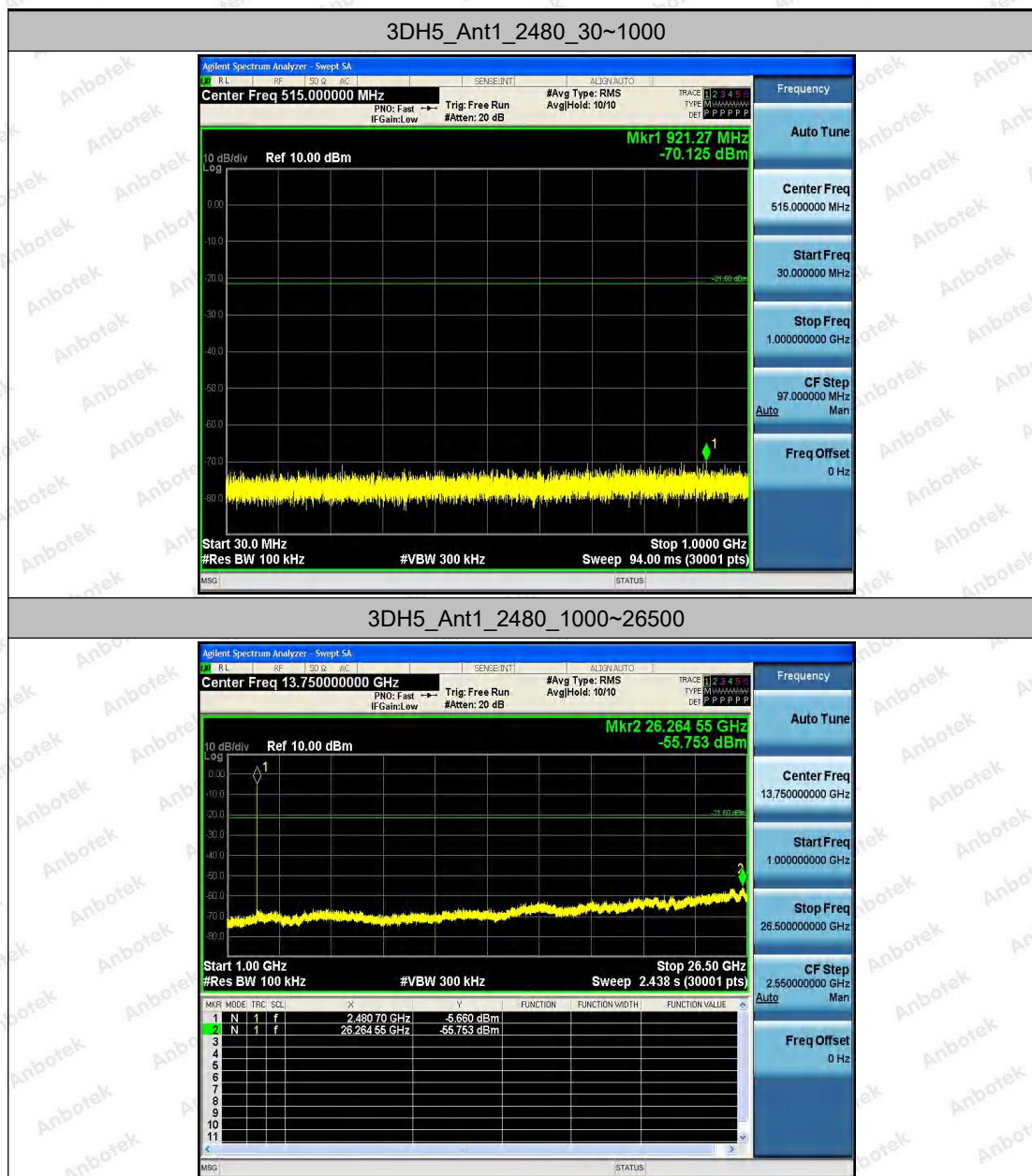


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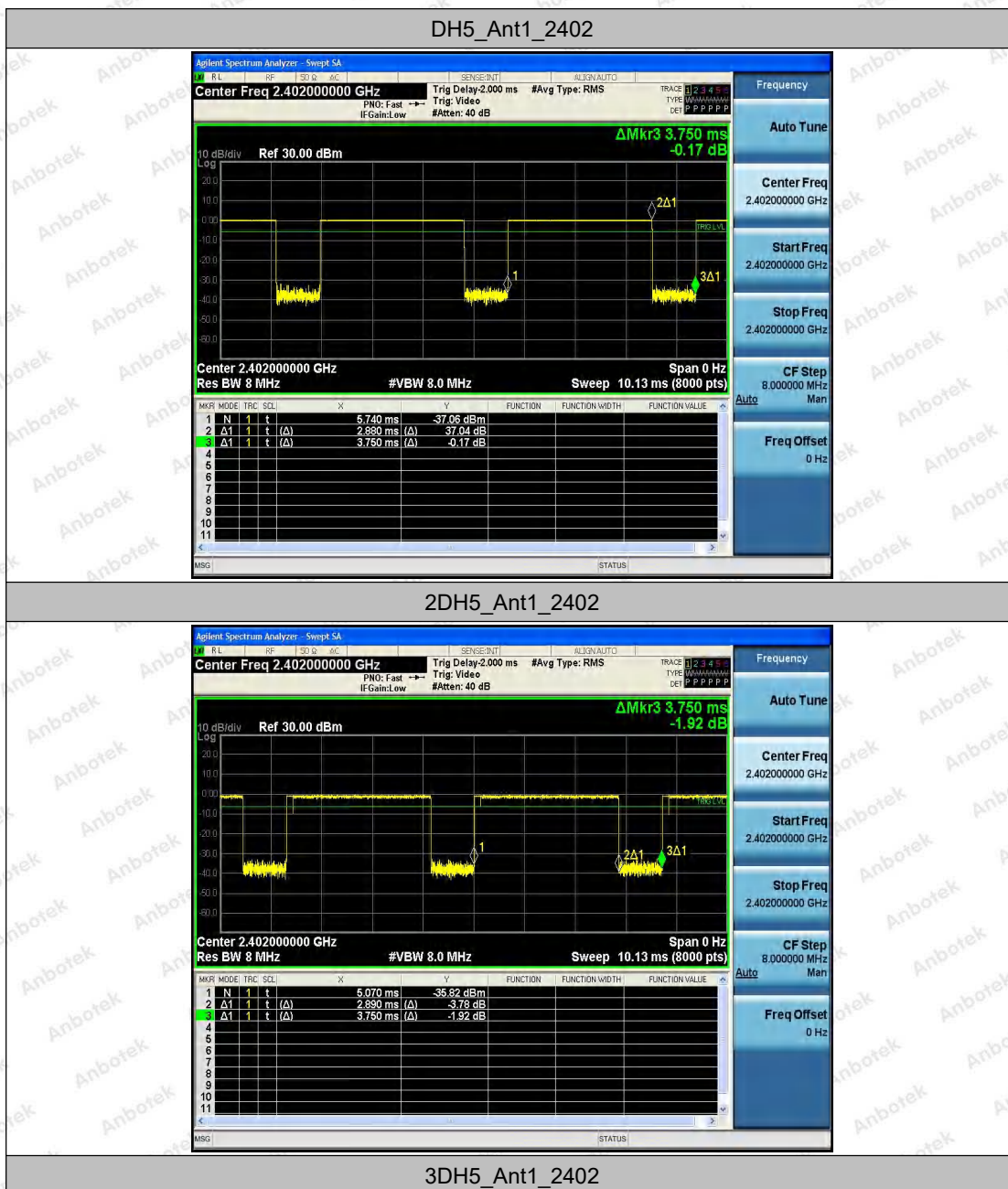
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.76	0.7686	76.86	1.14	---	PASS

Test Graphs

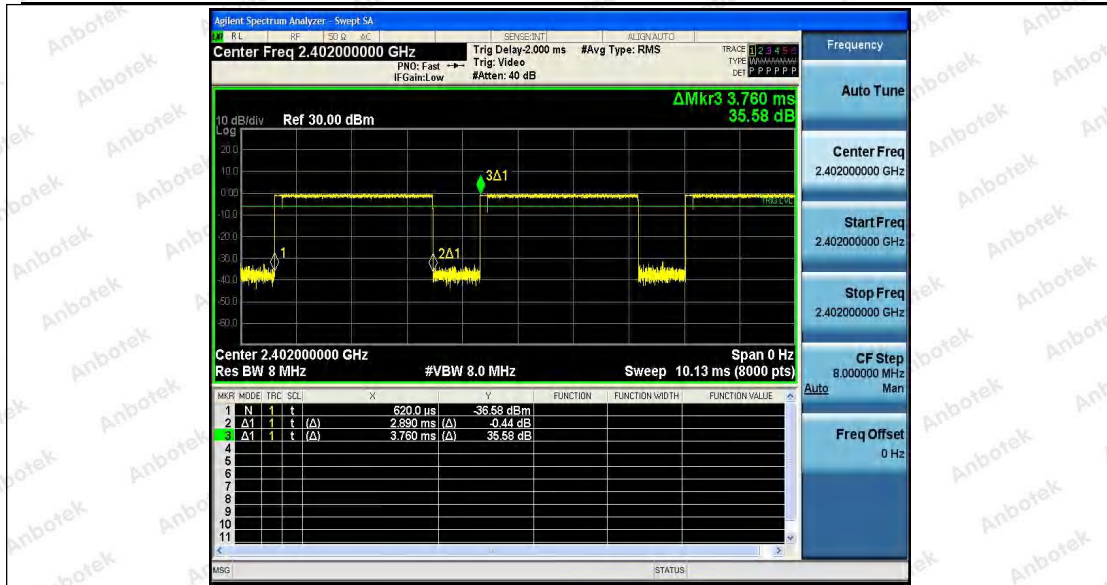


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