

Appendix Test Data

Report No.:	18220WC20086301	Test Sample No.:	1-2-2
Start Test Date:	2022.4.21	Finish Test Date:	2022.4.28
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.2 %
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	0.945	2401.538	2402.483	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.942	2479.538	2480.480	---	PASS
2DH5	Ant1	2402	1.320	2401.337	2402.657	---	PASS
		2441	1.323	2440.337	2441.660	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.305	2401.343	2402.648	---	PASS
		2441	1.272	2440.349	2441.621	---	PASS
		2480	1.275	2479.349	2480.624	---	PASS

Test Graphs

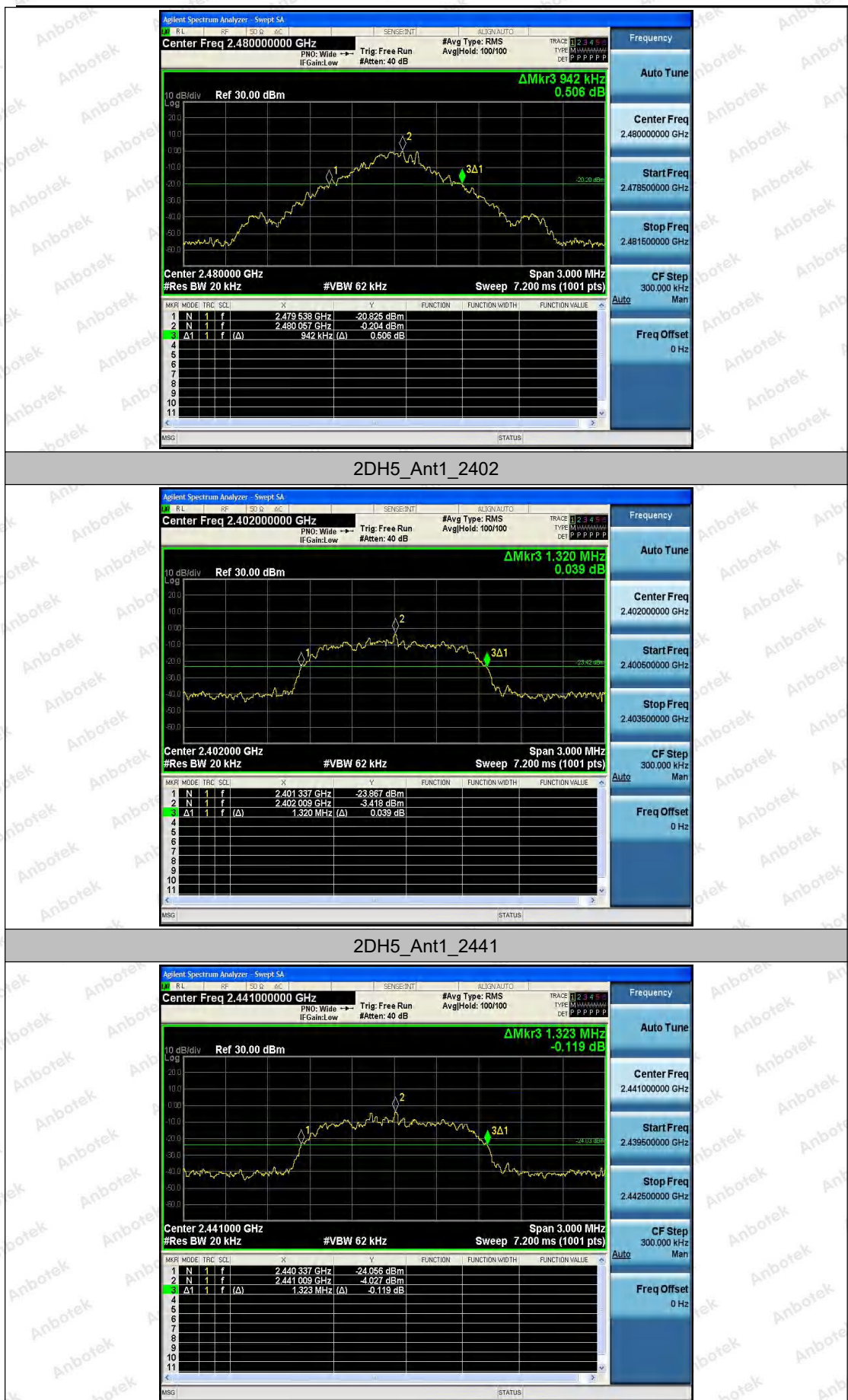


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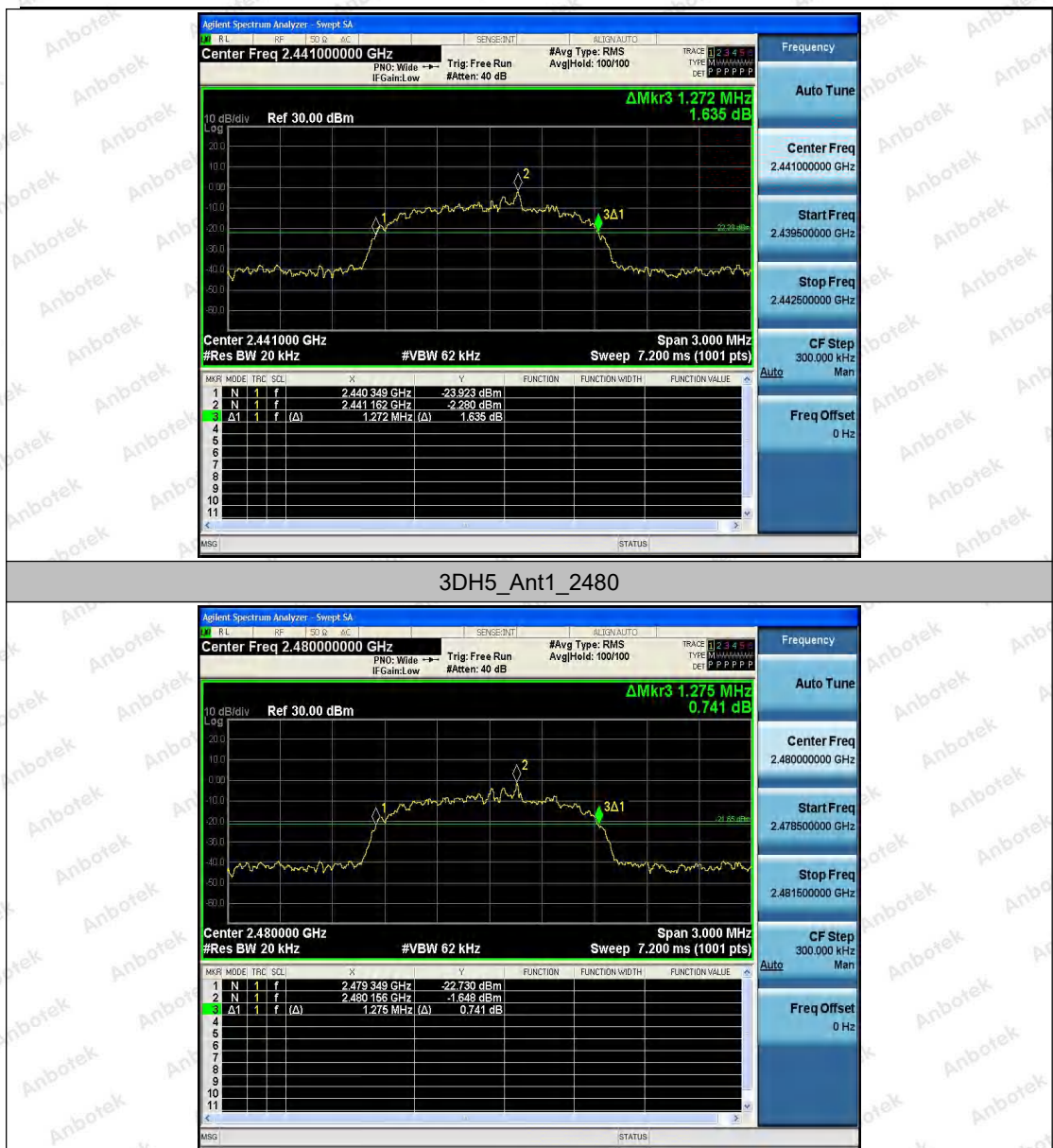
2DH5_Ant1_2480



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	0.89112	2401.556	2402.447	---	PASS
		2441	0.88721	2440.556	2441.443	---	PASS
		2480	0.89120	2479.556	2480.448	---	PASS
2DH5	Ant1	2402	1.1961	2401.402	2402.598	---	PASS
		2441	1.1970	2440.402	2441.599	---	PASS
		2480	1.1920	2479.402	2480.594	---	PASS
3DH5	Ant1	2402	1.2107	2401.385	2402.595	---	PASS
		2441	1.2092	2440.386	2441.596	---	PASS
		2480	1.2122	2479.384	2480.596	---	PASS

Test Graphs

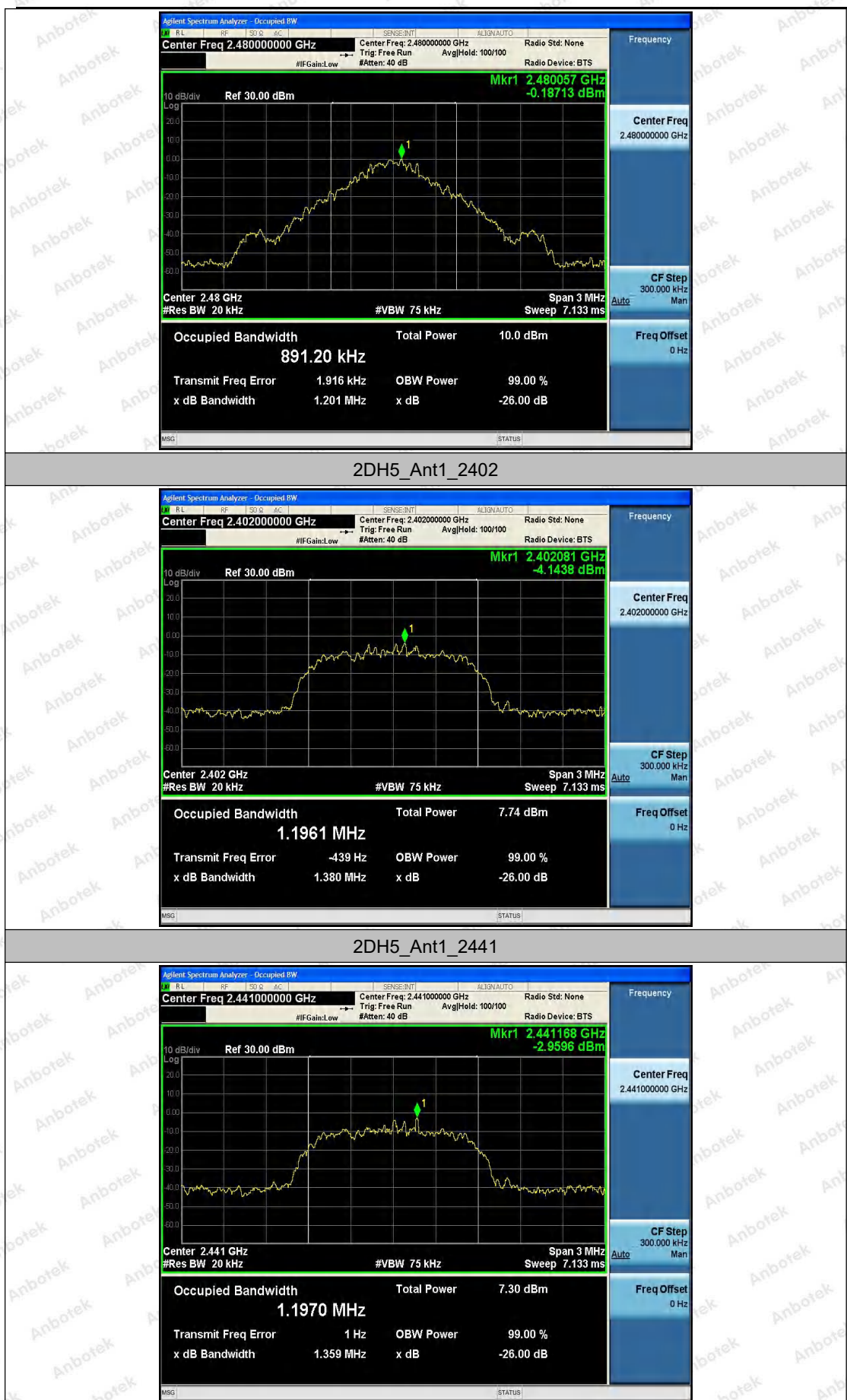


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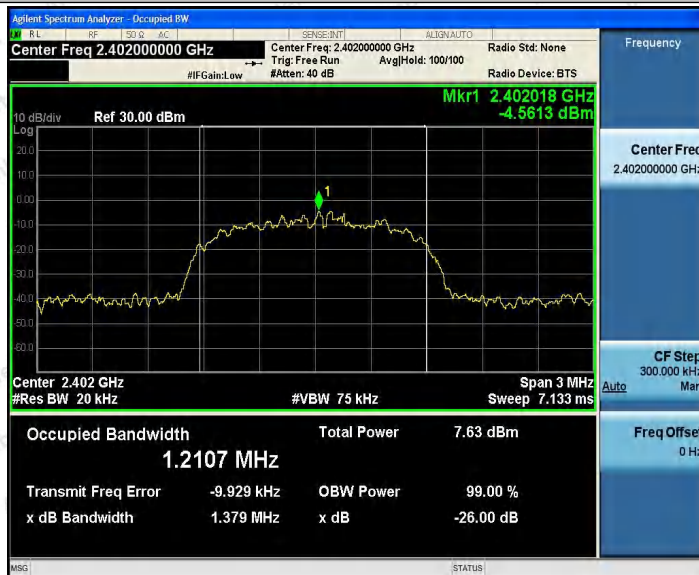
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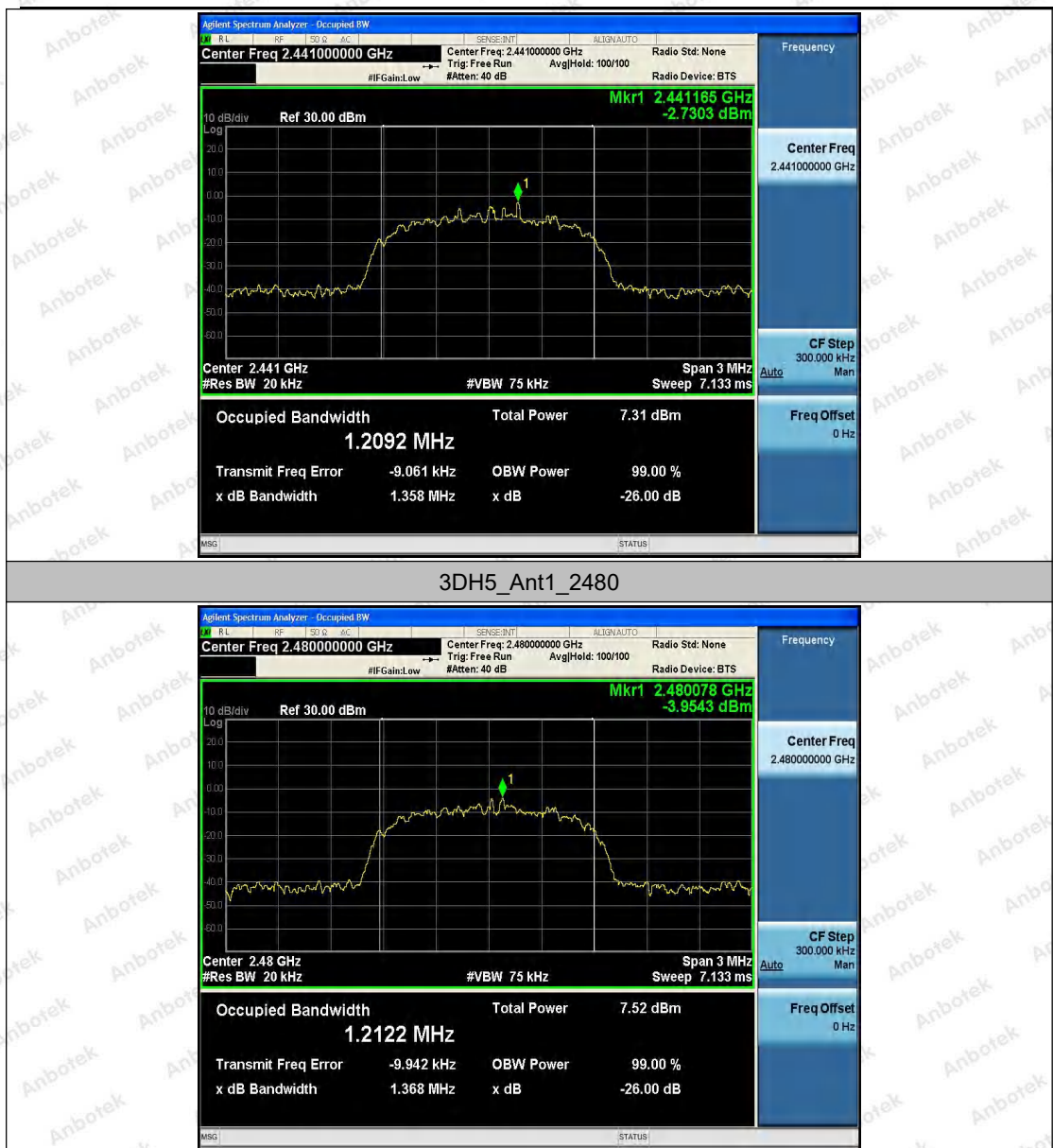
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

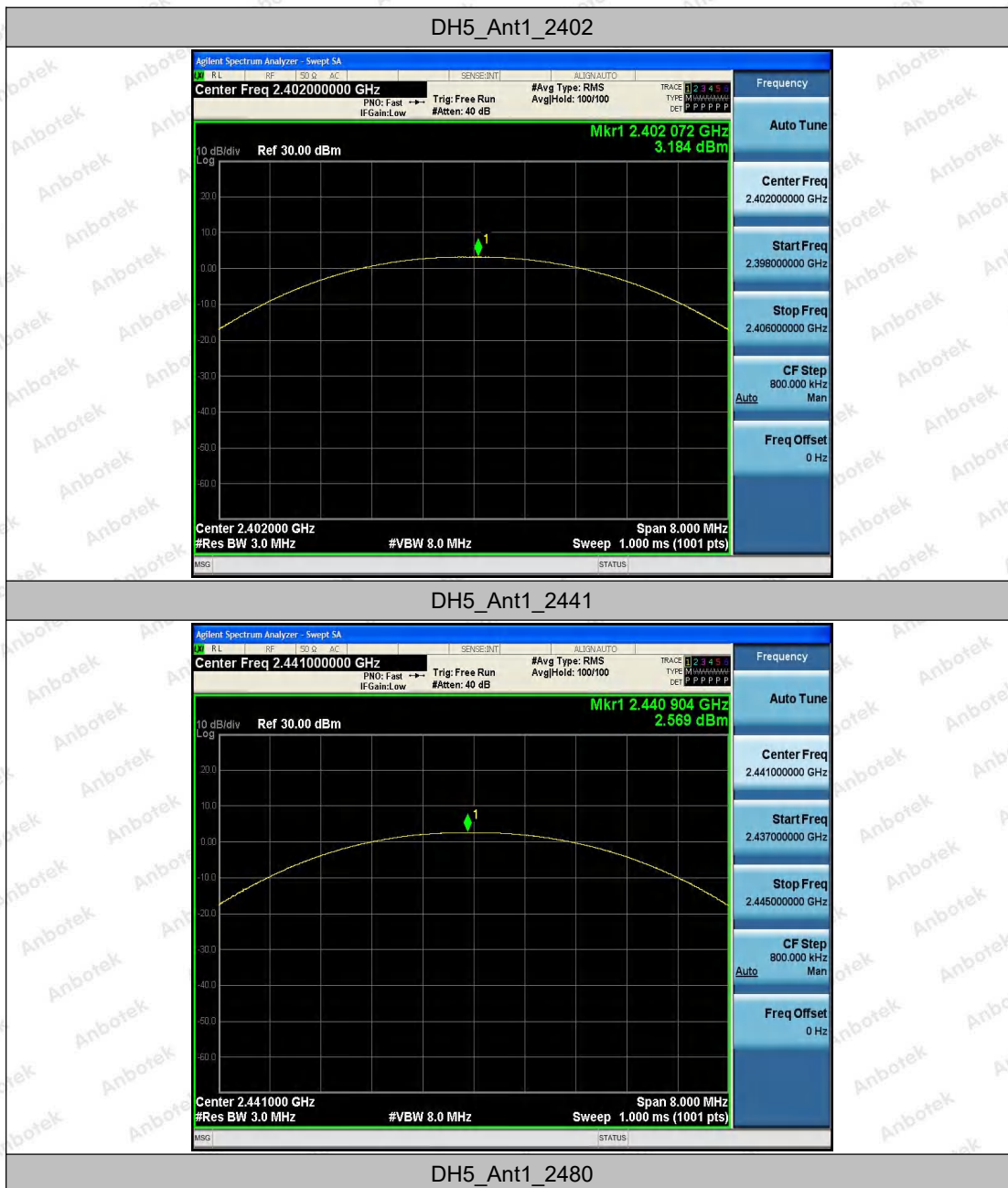


Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.18	≤20.97	PASS
		2441	2.57	≤20.97	PASS
		2480	3.4	≤20.97	PASS
2DH5	Ant1	2402	2.56	≤20.97	PASS
		2441	1.89	≤20.97	PASS
		2480	2.75	≤20.97	PASS
3DH5	Ant1	2402	2.67	≤20.97	PASS
		2441	2.08	≤20.97	PASS
		2480	2.82	≤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

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.036	≥ 0.948	PASS
2DH5	Ant1	Hop	0.896	≥ 0.882	PASS
3DH5	Ant1	Hop	0.934	≥ 0.870	PASS

Test Graphs





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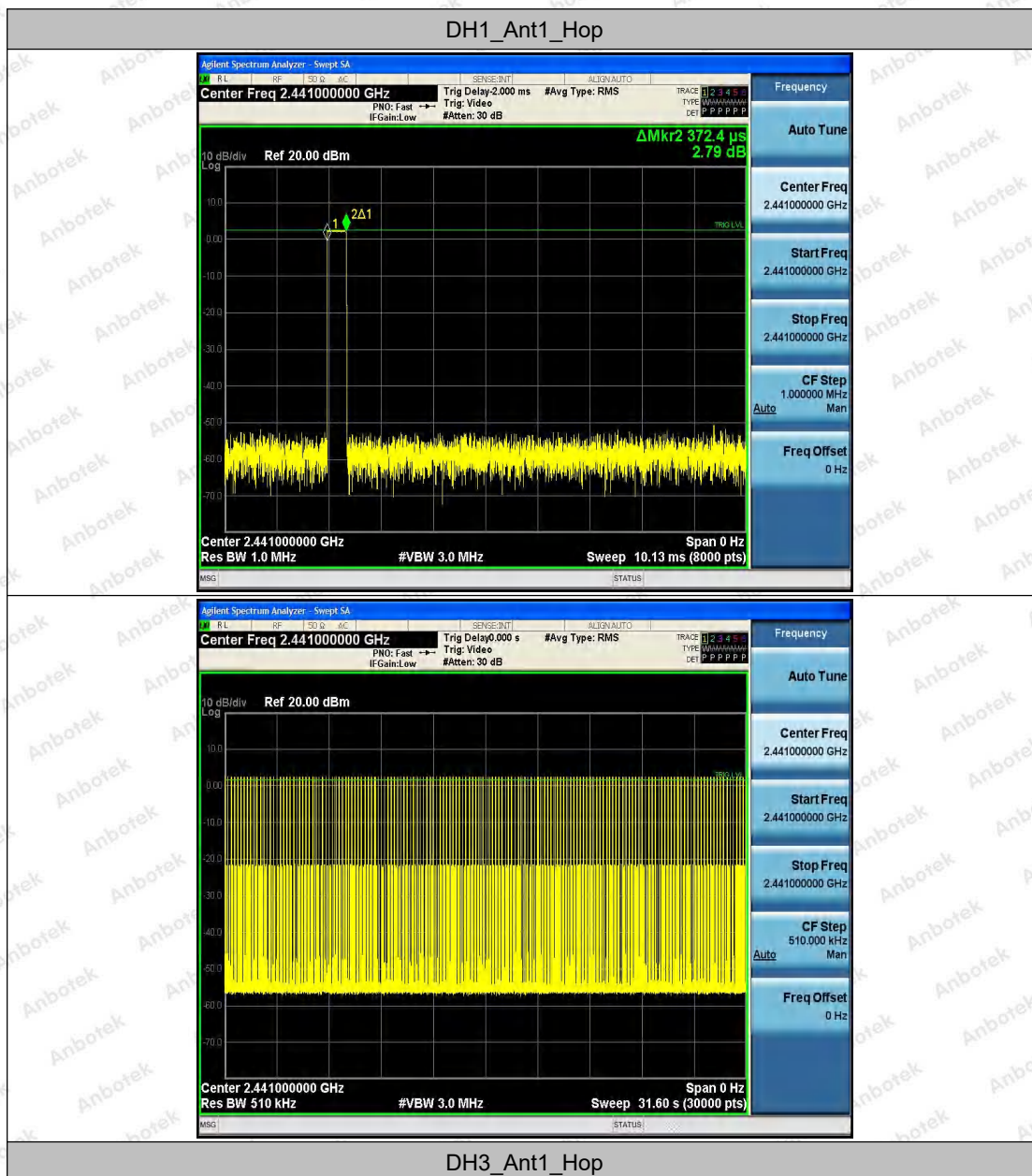
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	156	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.88	117	0.336	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	78	0.225	≤0.4	PASS
3DH1	Ant1	Hop	0.38	315	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

Test Graphs



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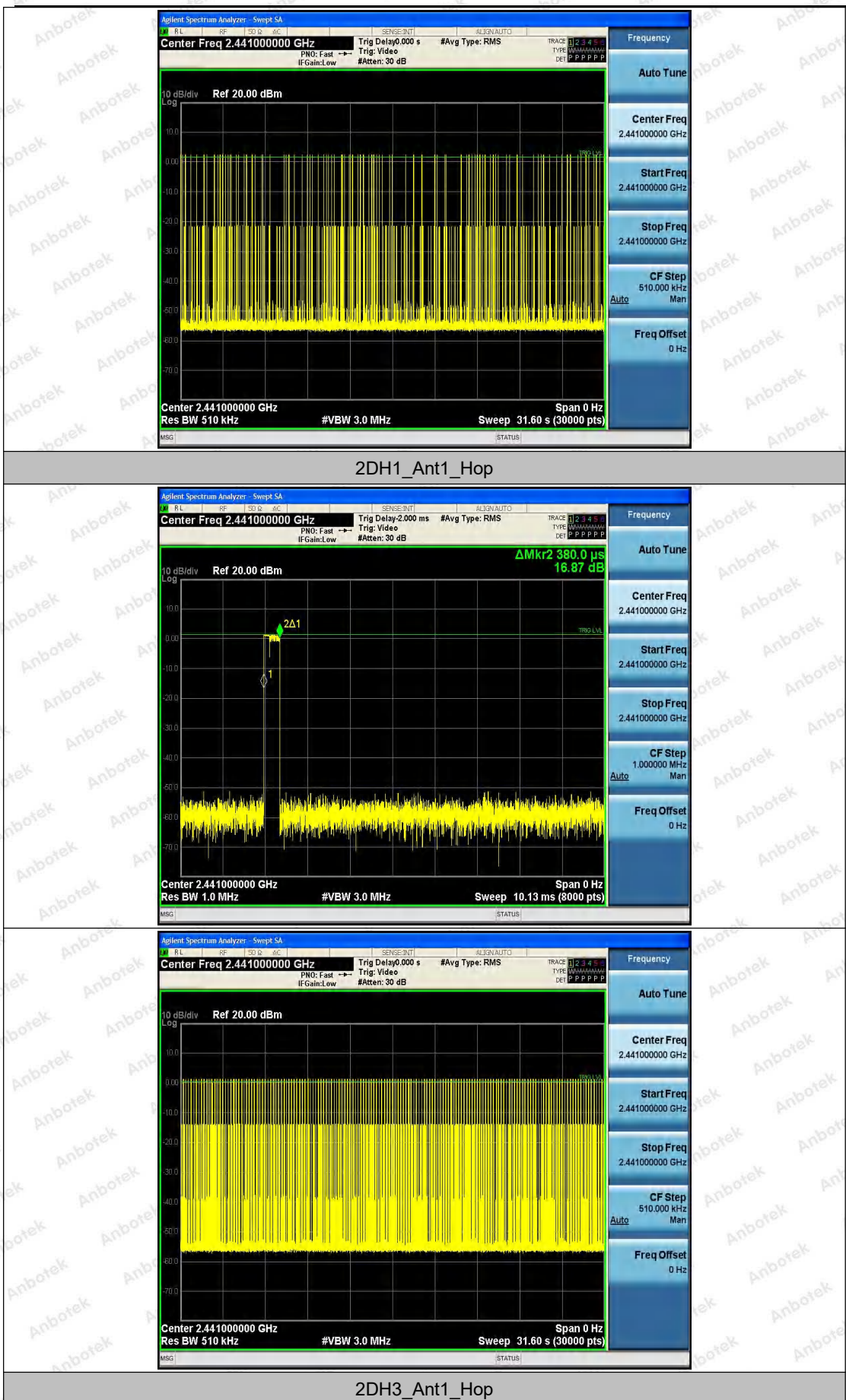
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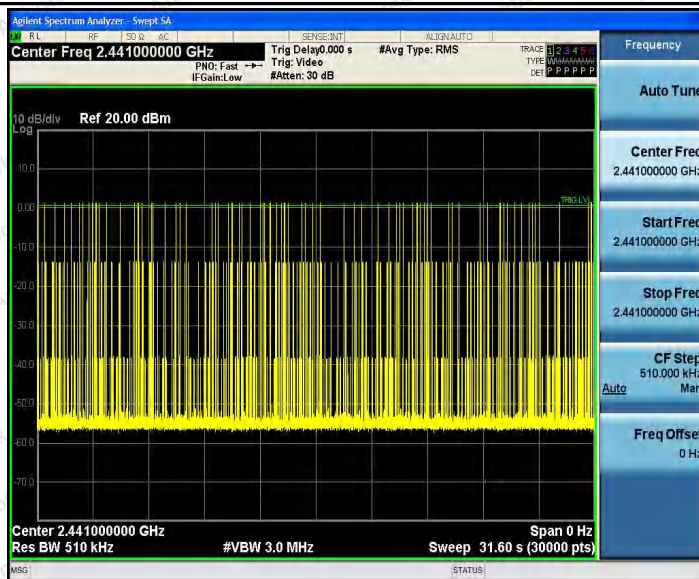


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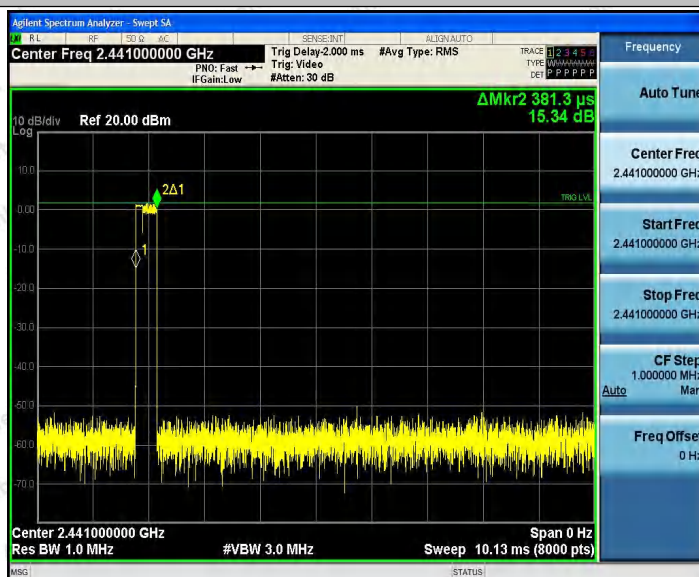
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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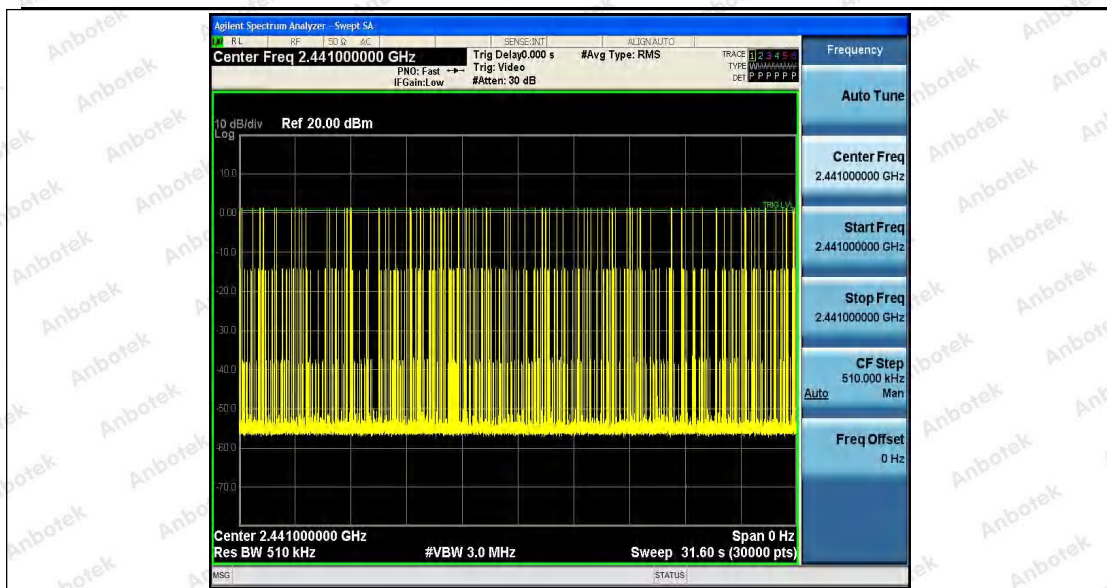
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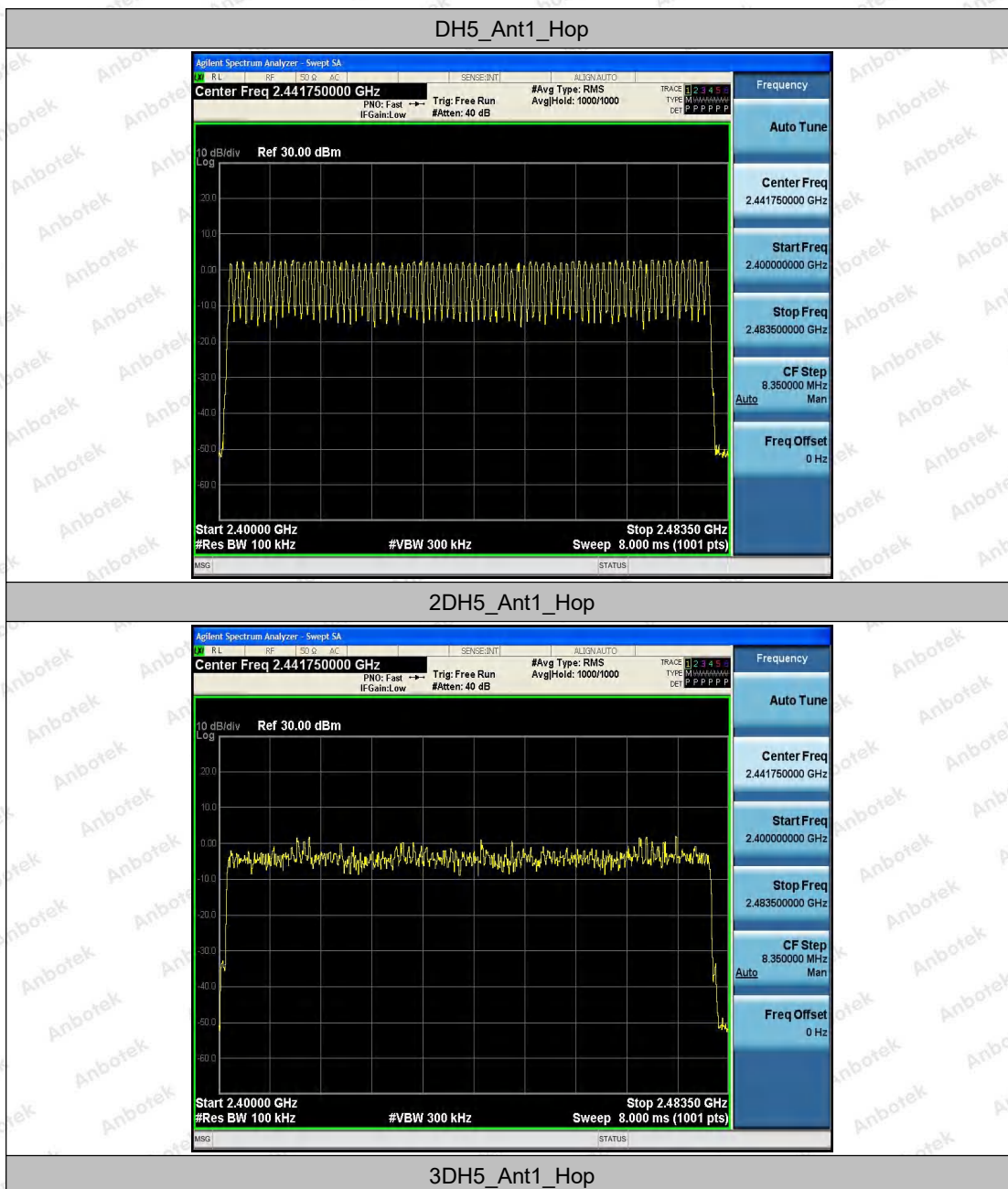
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Appendix F: Number of hopping channels

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

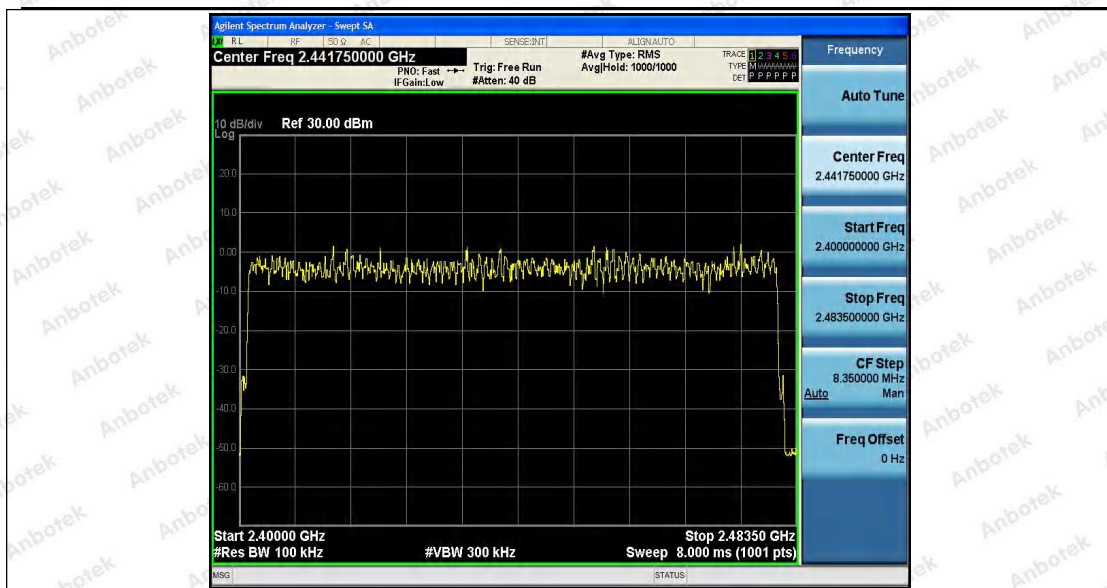


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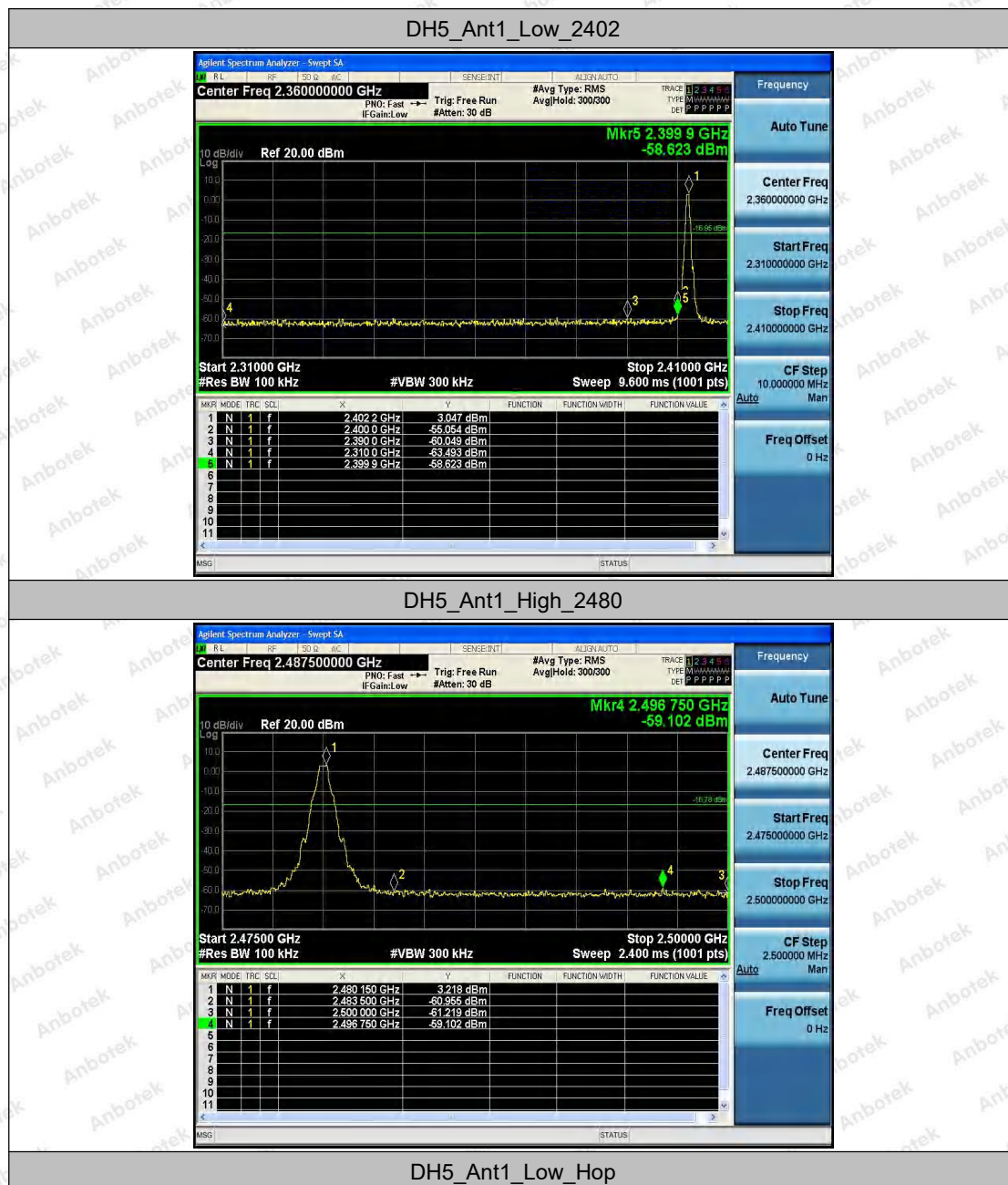
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Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Low	2402	3.05	-58.62	≤-16.95	PASS
		High	2480	3.22	-59.1	≤-16.78	PASS
		Low	Hop	2.65	-59.75	≤-17.35	PASS
		High	Hop	2.74	-61.56	≤-17.26	PASS
2DH5	Ant1	Low	2402	1.80	-54.9	≤-18.2	PASS
		High	2480	2.00	-59.47	≤-18	PASS
		Low	Hop	1.57	-59.74	≤-18.43	PASS
		High	Hop	-1.67	-62.79	≤-21.67	PASS
3DH5	Ant1	Low	2402	1.29	-54.93	≤-18.71	PASS
		High	2480	1.89	-59.01	≤-18.11	PASS
		Low	Hop	-1.45	-59.03	≤-21.45	PASS
		High	Hop	-0.38	-62.1	≤-20.38	PASS

Test Graphs



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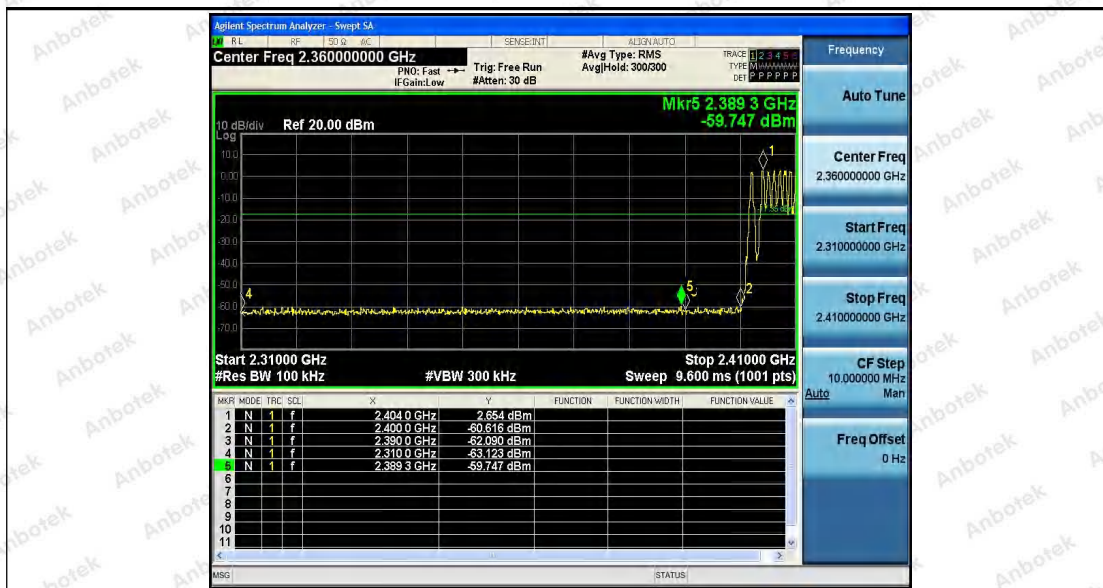
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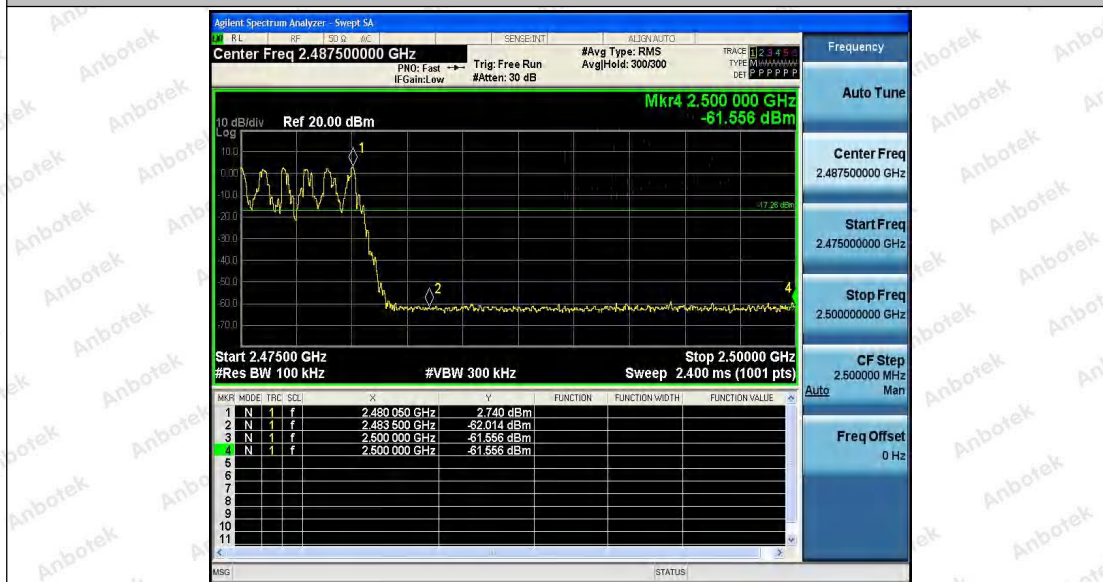
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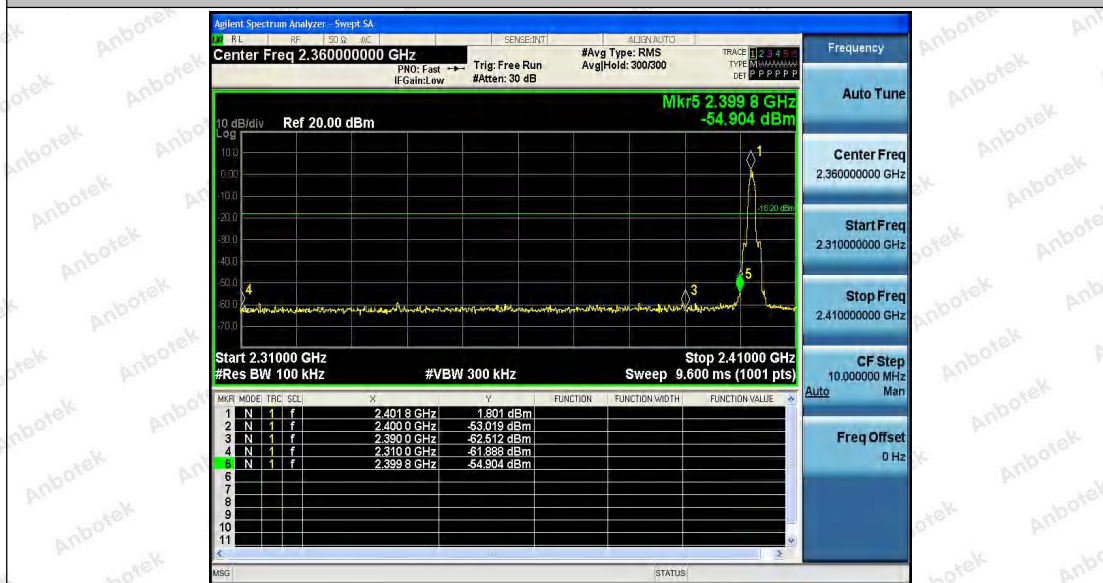
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



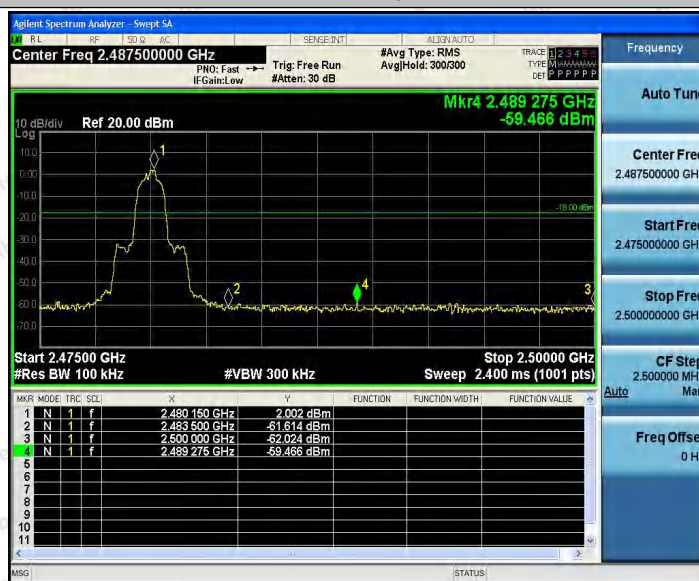
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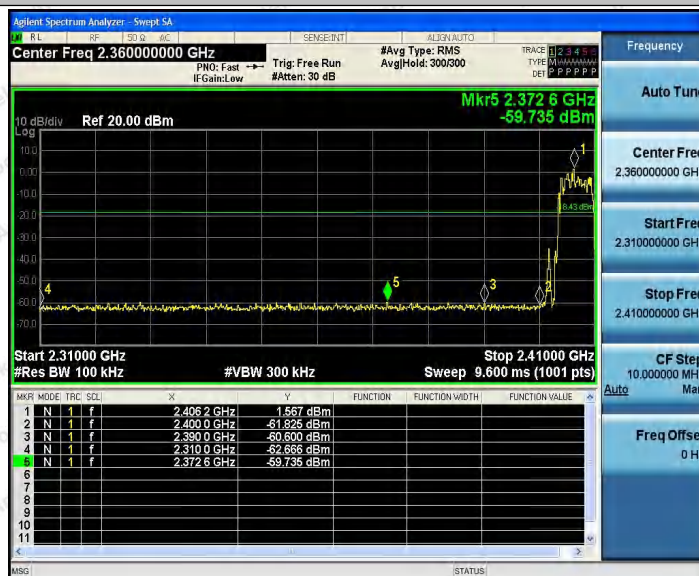
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



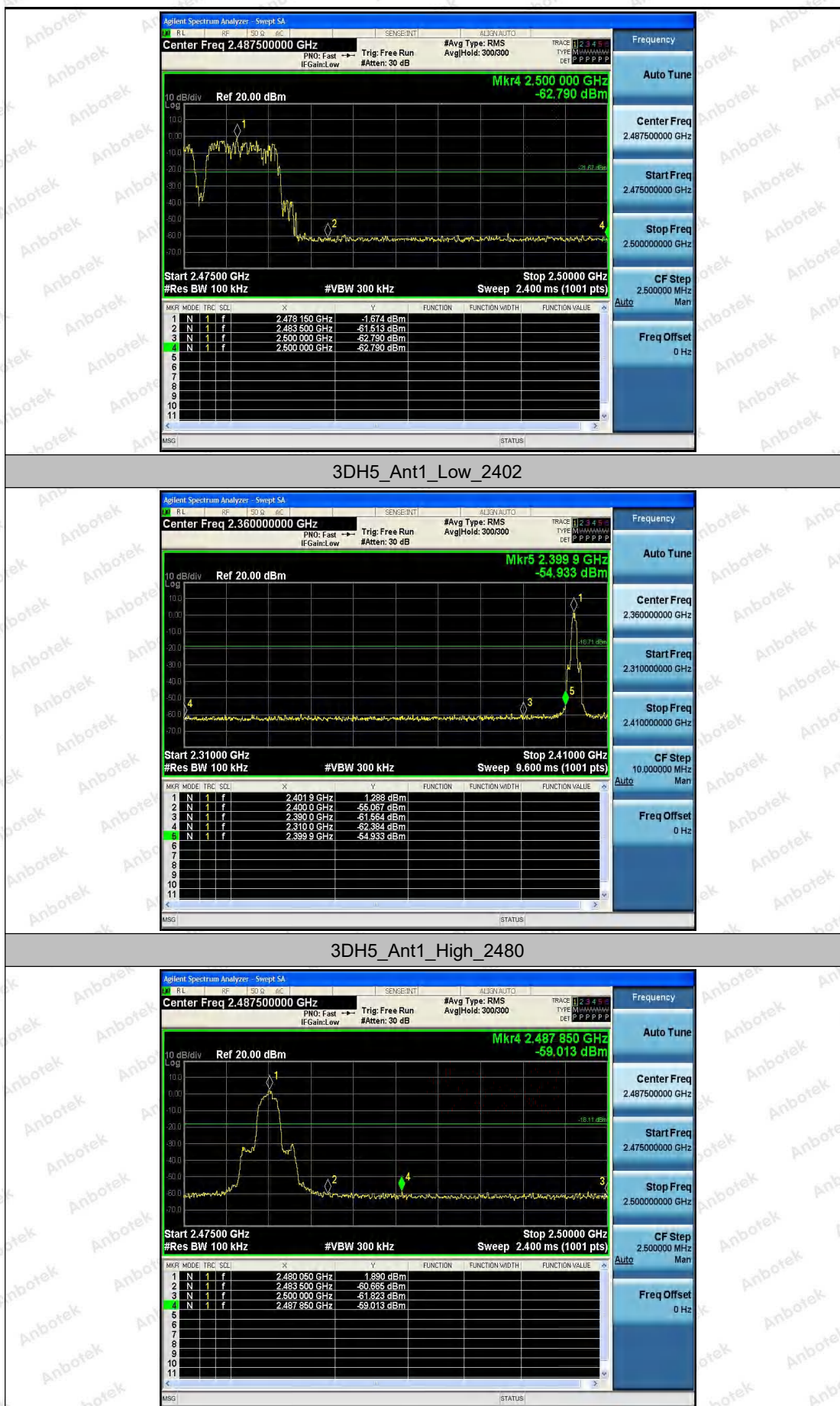
2DH5_Ant1_High_Hop

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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	2.37	2.37	---	PASS
			30~1000	2.37	-69.77	≤-17.63	PASS
			1000~26500	2.37	-55.88	≤-17.63	PASS
		2441	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-70.6	≤-17.66	PASS
			1000~26500	2.34	-54.16	≤-17.66	PASS
		2480	Reference	2.67	2.67	---	PASS
			30~1000	2.67	-69.45	≤-17.33	PASS
			1000~26500	2.67	-55.89	≤-17.33	PASS
2DH5	Ant1	2402	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-69.98	≤-19.02	PASS
			1000~26500	0.98	-55.51	≤-19.02	PASS
		2441	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-70.51	≤-19.51	PASS
			1000~26500	0.49	-55.72	≤-19.51	PASS
		2480	Reference	1.61	1.61	---	PASS
			30~1000	1.61	-70.14	≤-18.39	PASS
			1000~26500	1.61	-55.55	≤-18.39	PASS
3DH5	Ant1	2402	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-70.34	≤-18.27	PASS
			1000~26500	1.73	-55.42	≤-18.27	PASS
		2441	Reference	0.45	0.45	---	PASS
			30~1000	0.45	-69.96	≤-19.55	PASS
			1000~26500	0.45	-54.91	≤-19.55	PASS
		2480	Reference	1.95	1.95	---	PASS
			30~1000	1.95	-70.71	≤-18.05	PASS
			1000~26500	1.95	-55.76	≤-18.05	PASS

Test Graphs



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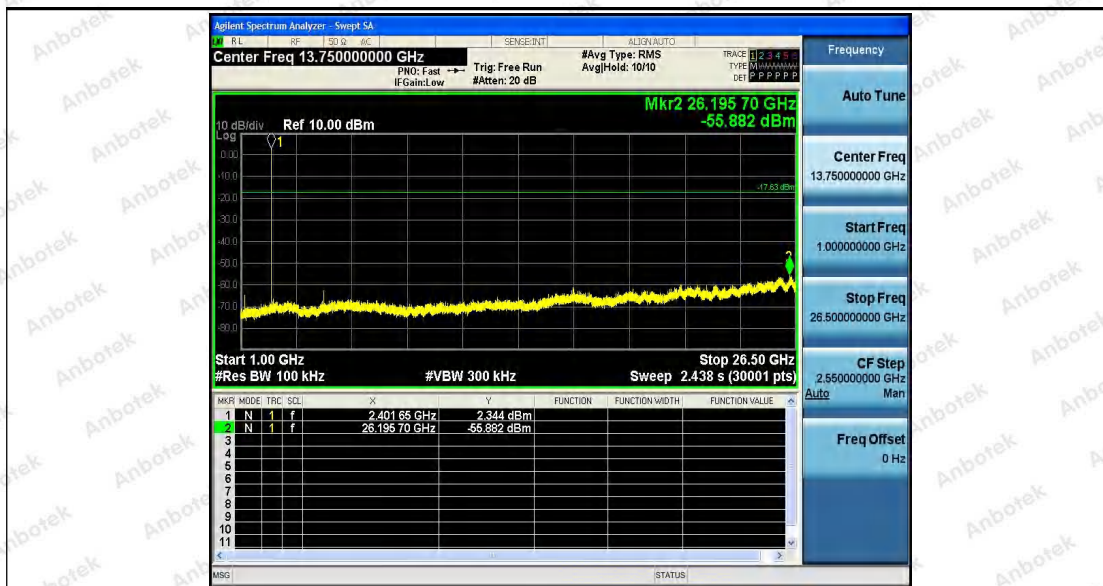
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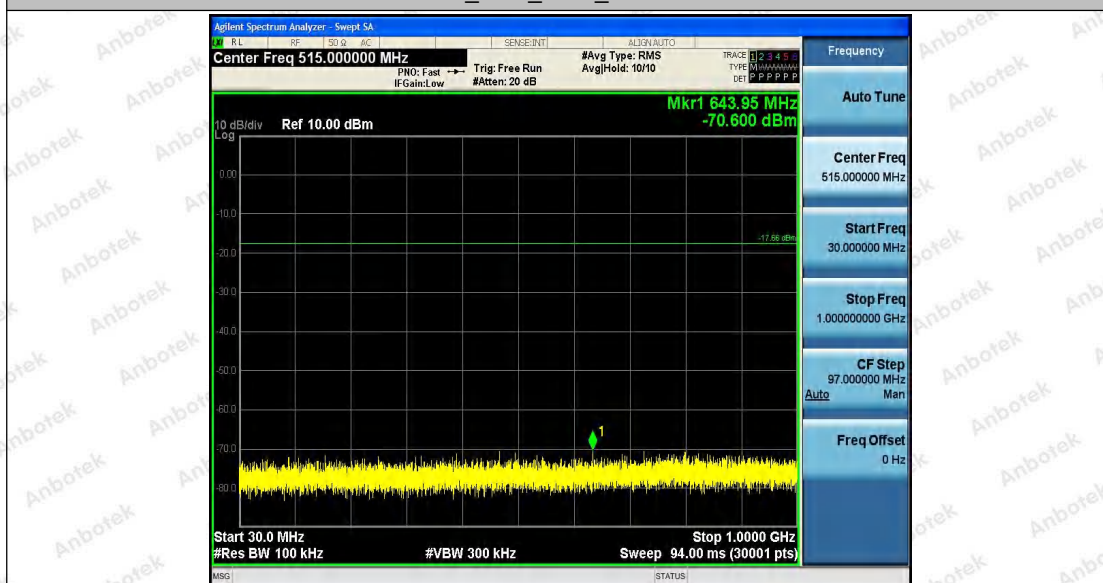
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



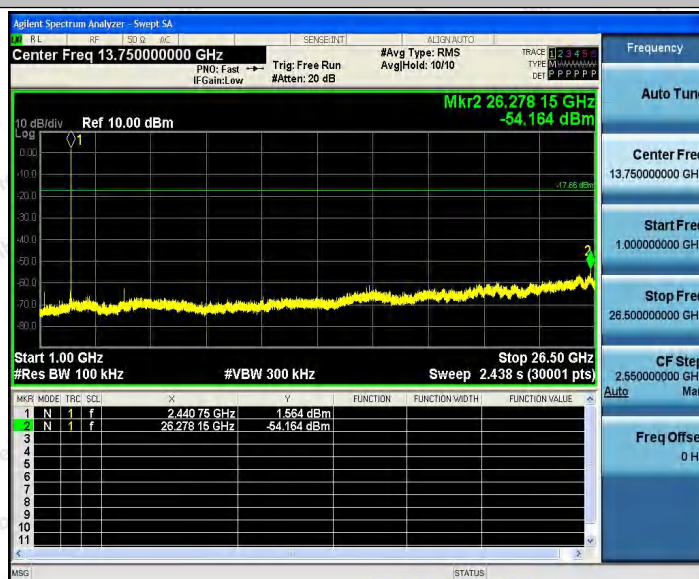
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



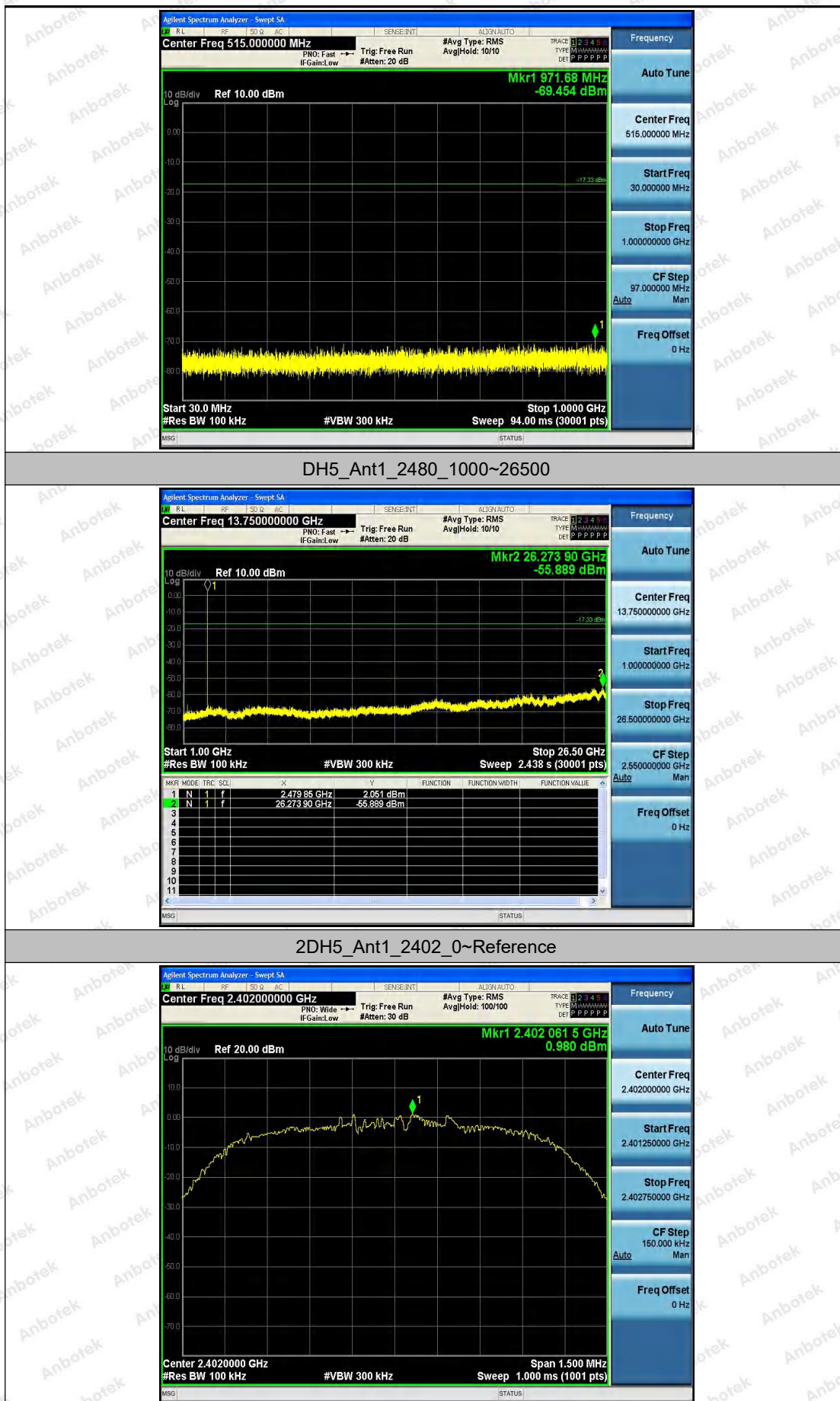
DH5_Ant1_2480_30~1000

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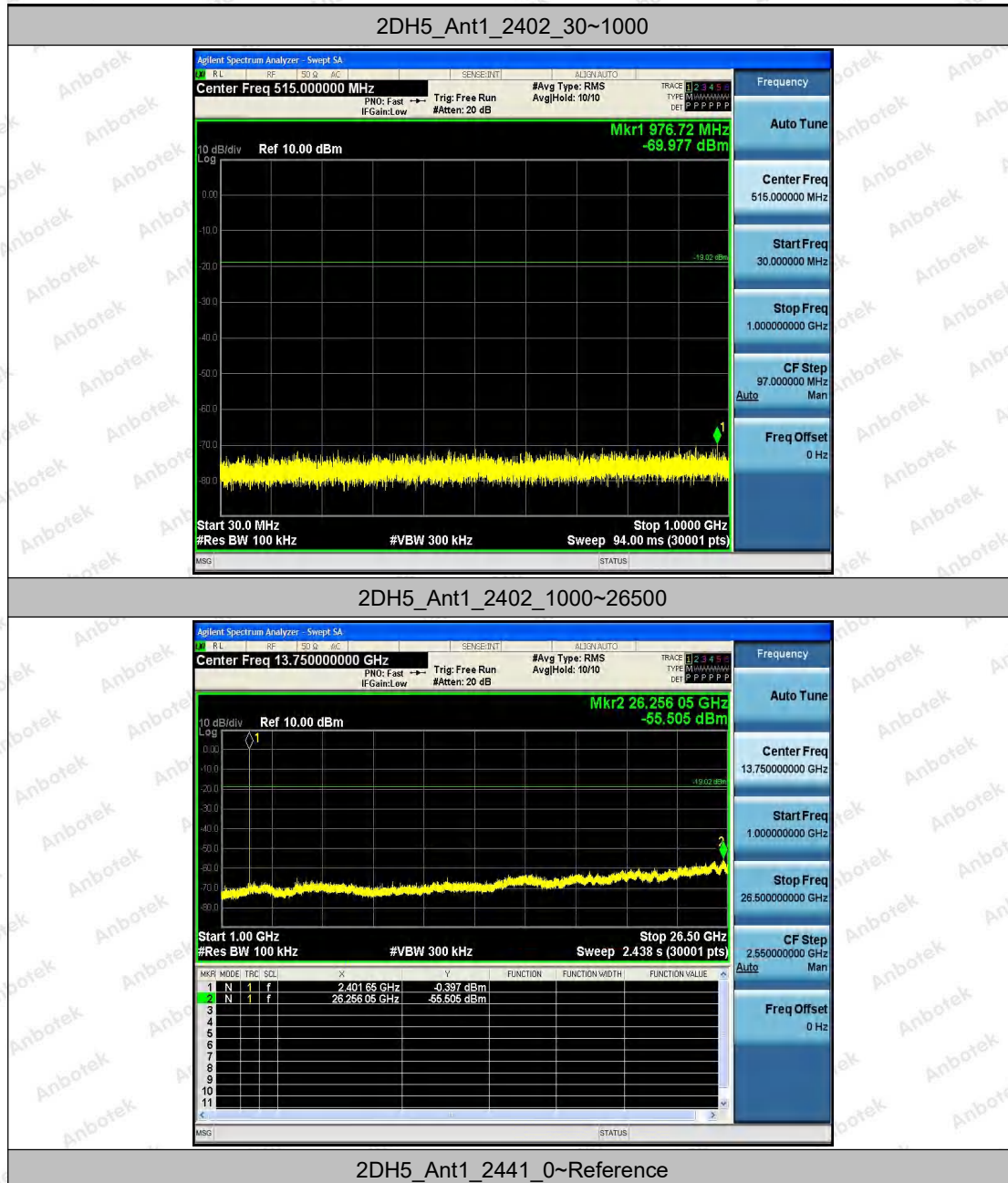


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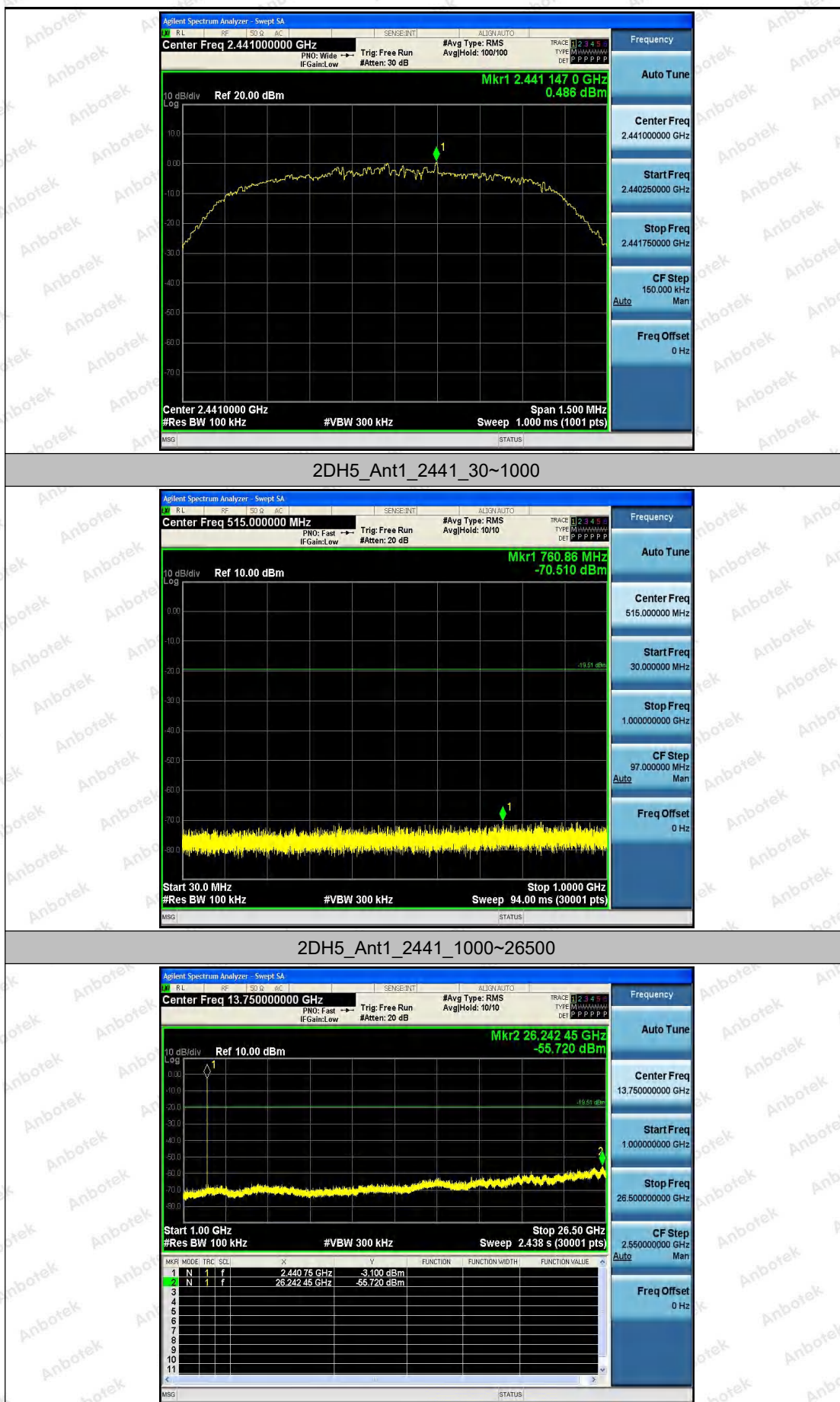
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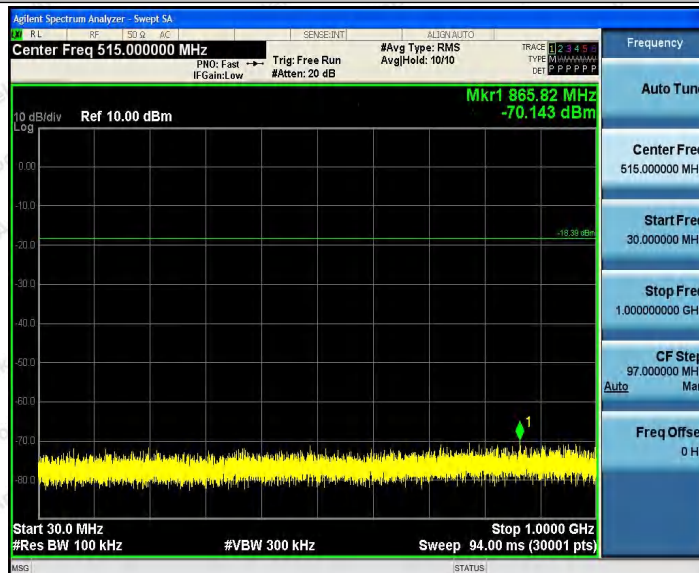
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2DH5_Ant1_2480_0~Reference



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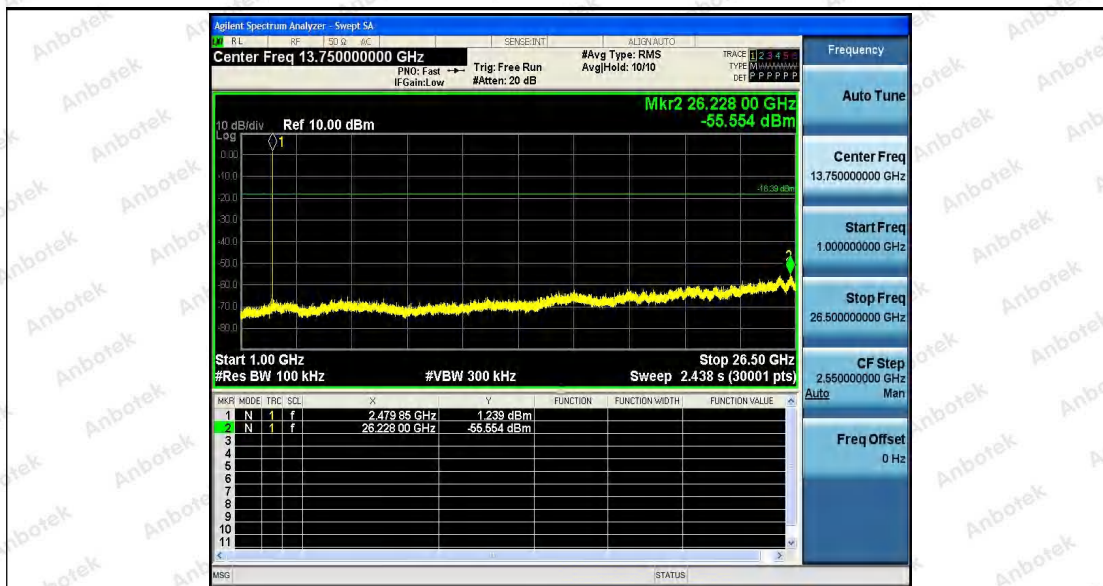
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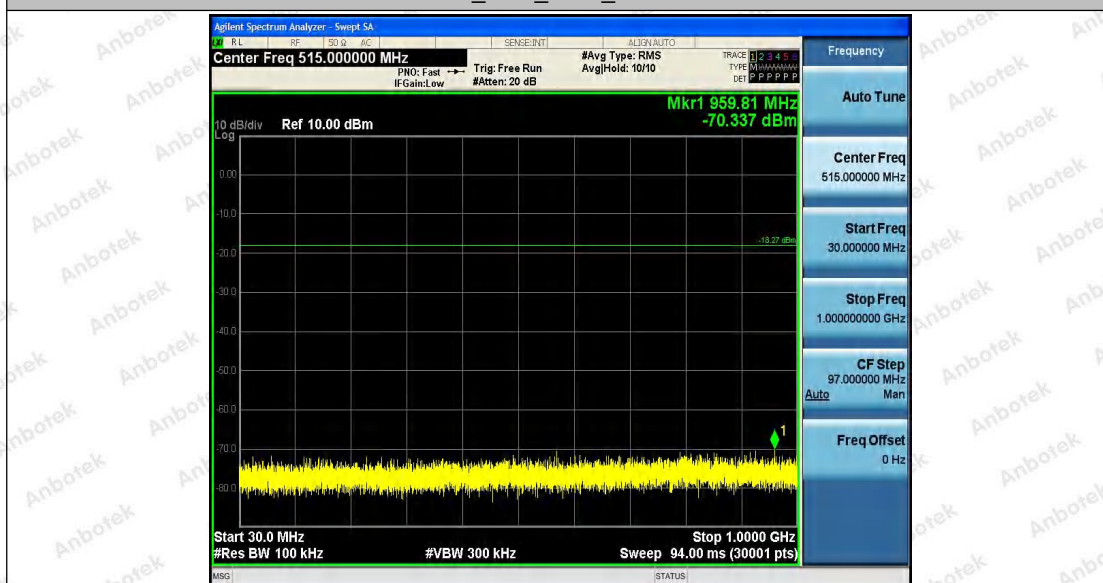
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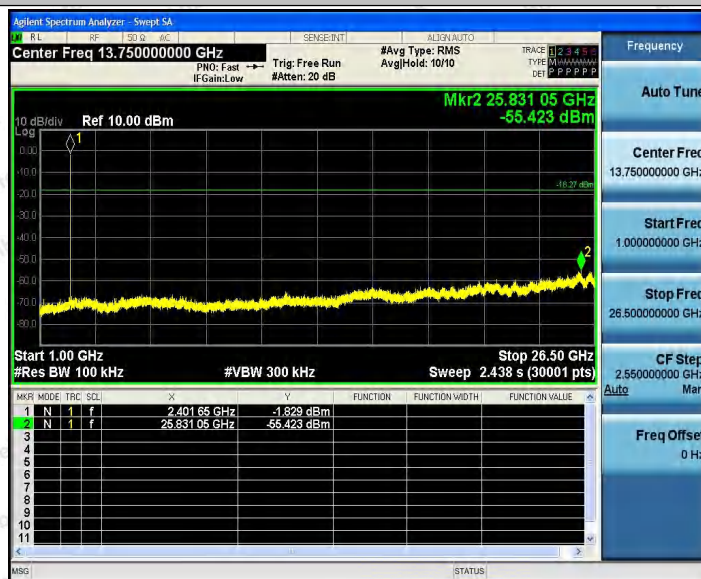
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



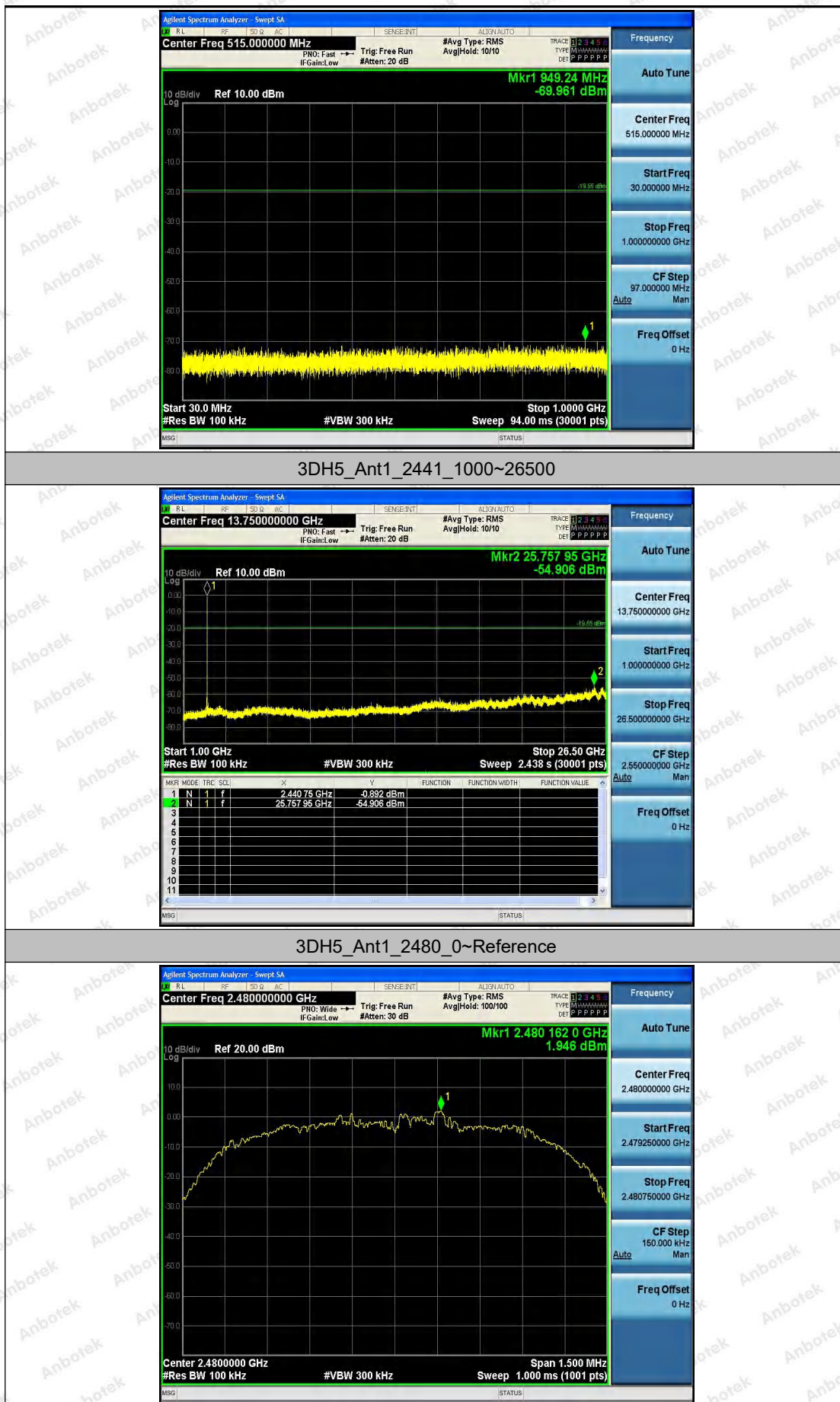
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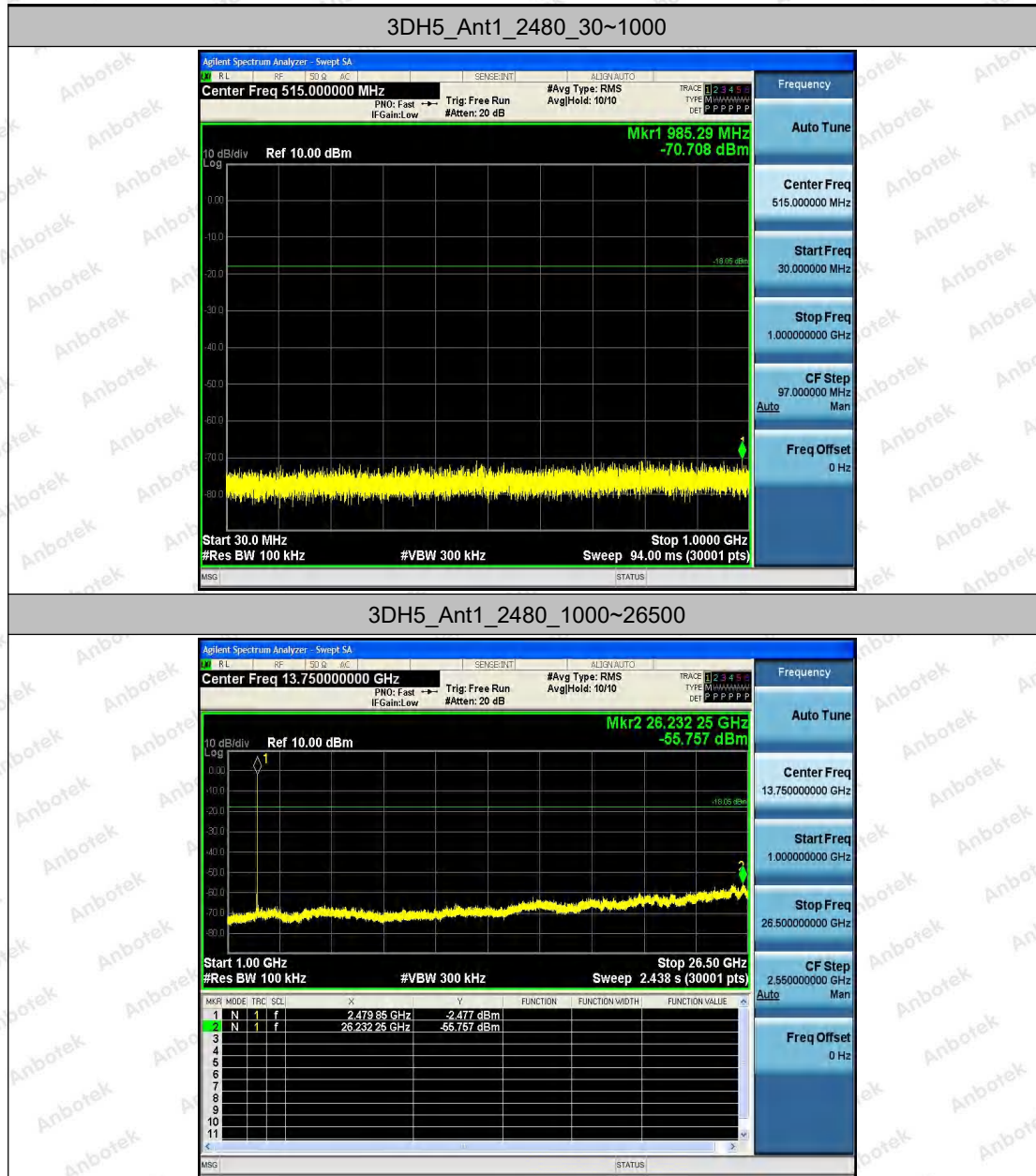


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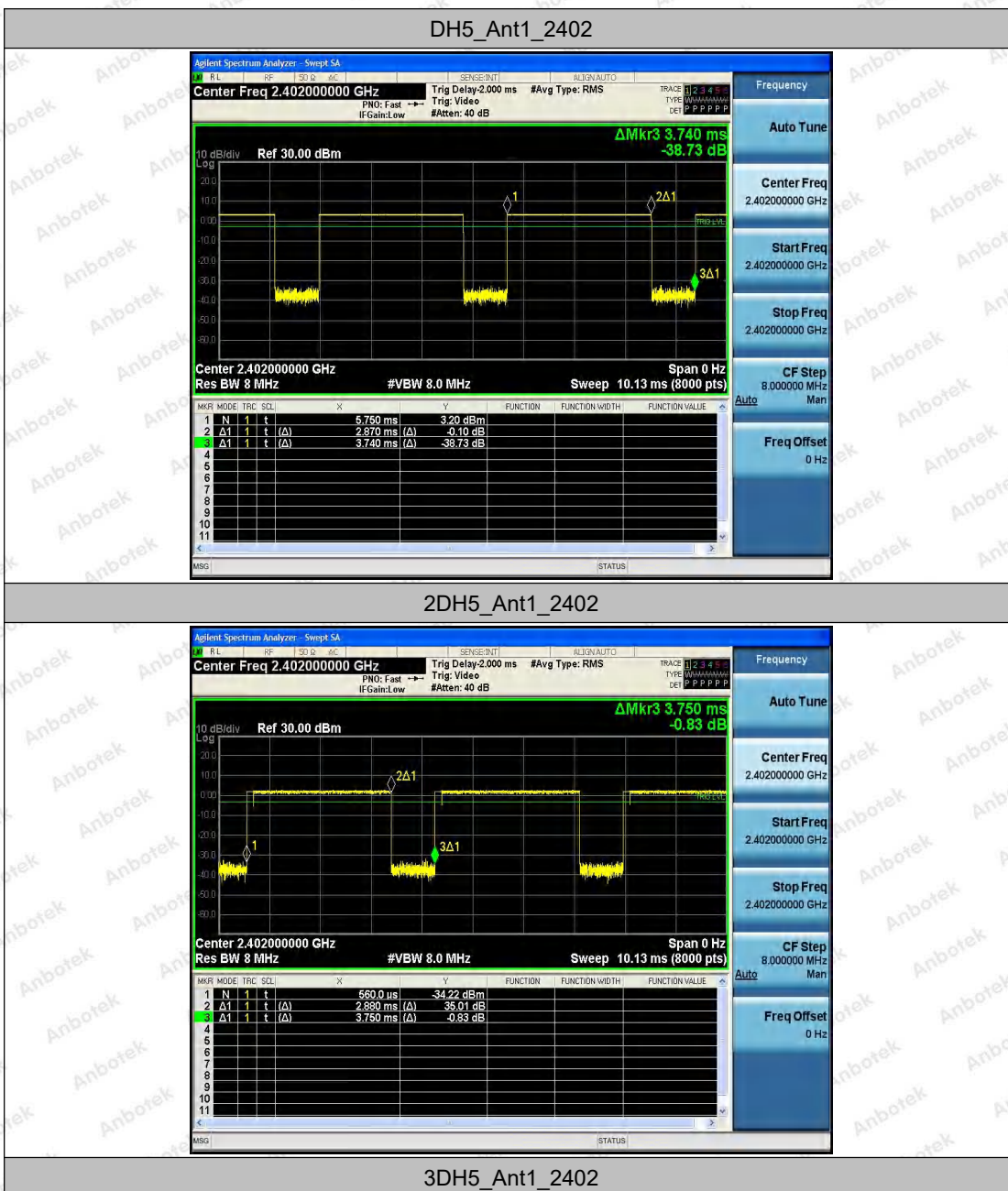
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.7674	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs

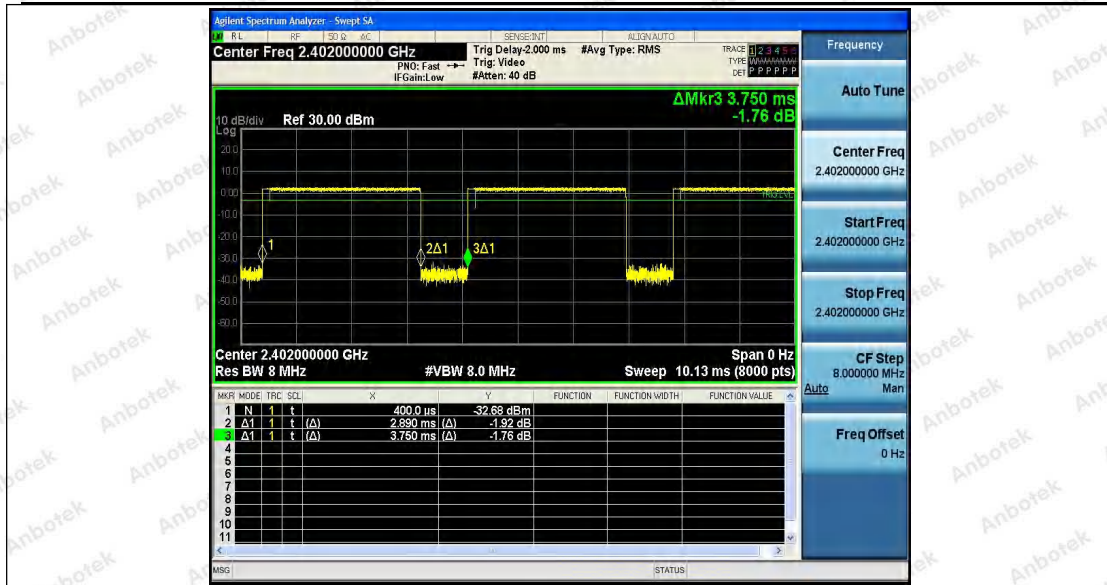


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---End---