

Appendix Test Data

Report No.:	18220WC20107901	Test Sample No.:	1-2-2
Start Test Date:	2022.5.18	Finish Test Date:	2022.5.25
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.6°C	Relative Humidity:	51.5%
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	0.858	2401.544	2402.402	---	PASS
		2441	0.858	2440.544	2441.402	---	PASS
		2480	0.858	2479.541	2480.399	---	PASS
2DH5	Ant1	2402	1.200	2401.397	2402.597	---	PASS
		2441	1.209	2440.394	2441.603	---	PASS
		2480	1.209	2479.394	2480.603	---	PASS
3DH5	Ant1	2402	1.245	2401.364	2402.609	---	PASS
		2441	1.236	2440.367	2441.603	---	PASS
		2480	1.224	2479.367	2480.591	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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3DH5_Ant1_2480



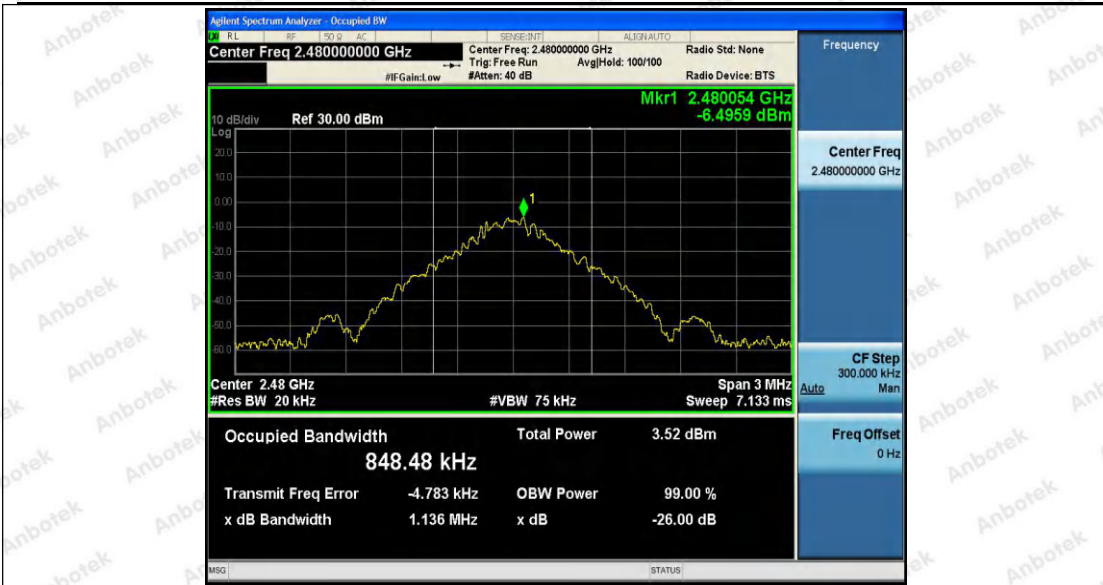
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83427	2401.58 0	2402.414	---	PASS
		2441	0.82678	2440.58 2	2441.409	---	PASS
		2480	0.84848	2479.57 1	2480.419	---	PASS
2DH5	Ant1	2402	1.1667	2401.41 0	2402.577	---	PASS
		2441	1.1610	2440.41 3	2441.574	---	PASS
		2480	1.1589	2479.41 4	2480.573	---	PASS
3DH5	Ant1	2402	1.1521	2401.41 9	2402.571	---	PASS
		2441	1.1679	2440.40 9	2441.577	---	PASS
		2480	1.1512	2479.42 1	2480.572	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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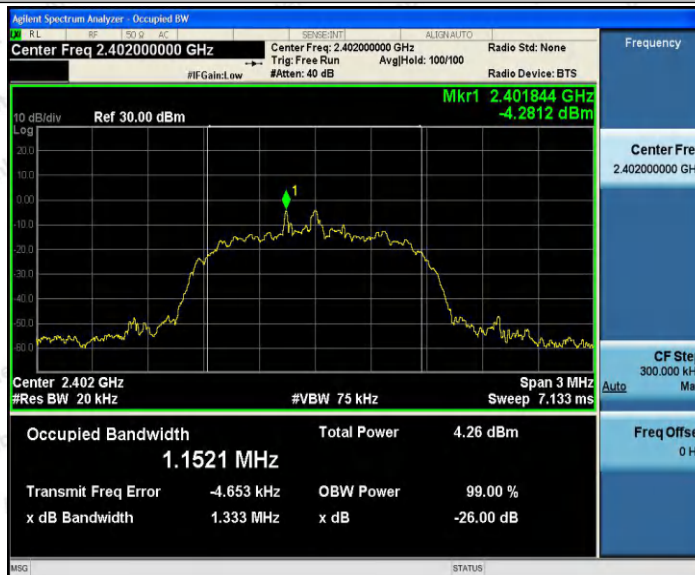
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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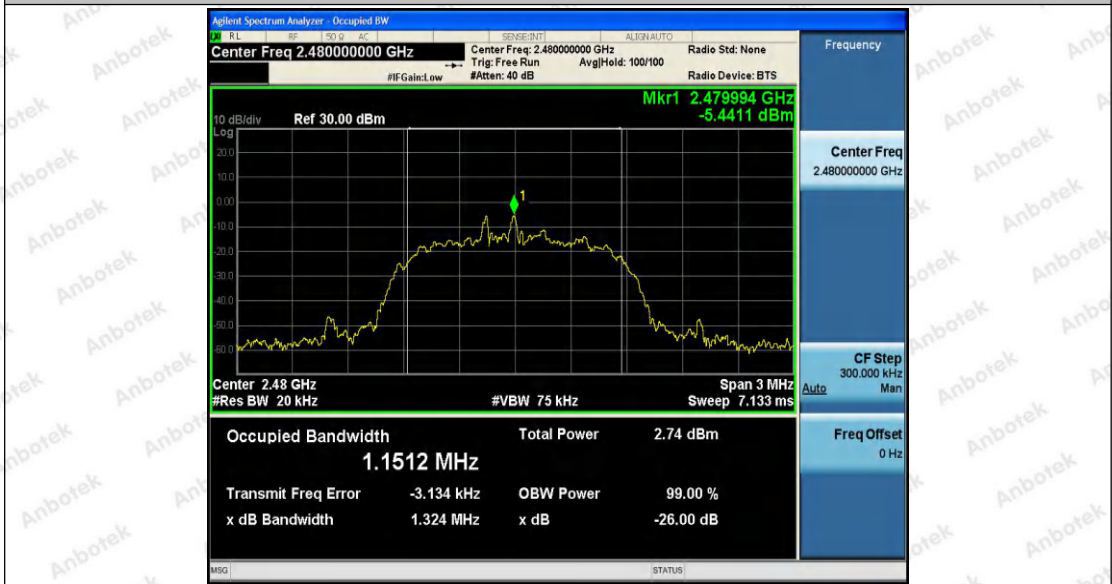
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3DH5_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.28	≤20.97	PASS
		2441	-2.67	≤20.97	PASS
		2480	-2.49	≤20.97	PASS
2DH5	Ant1	2402	-1.24	≤20.97	PASS
		2441	-2.49	≤30	PASS
		2480	-2.44	≤30	PASS
3DH5	Ant1	2402	-1.18	≤20.97	PASS
		2441	-2.55	≤20.97	PASS
		2480	-2.41	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

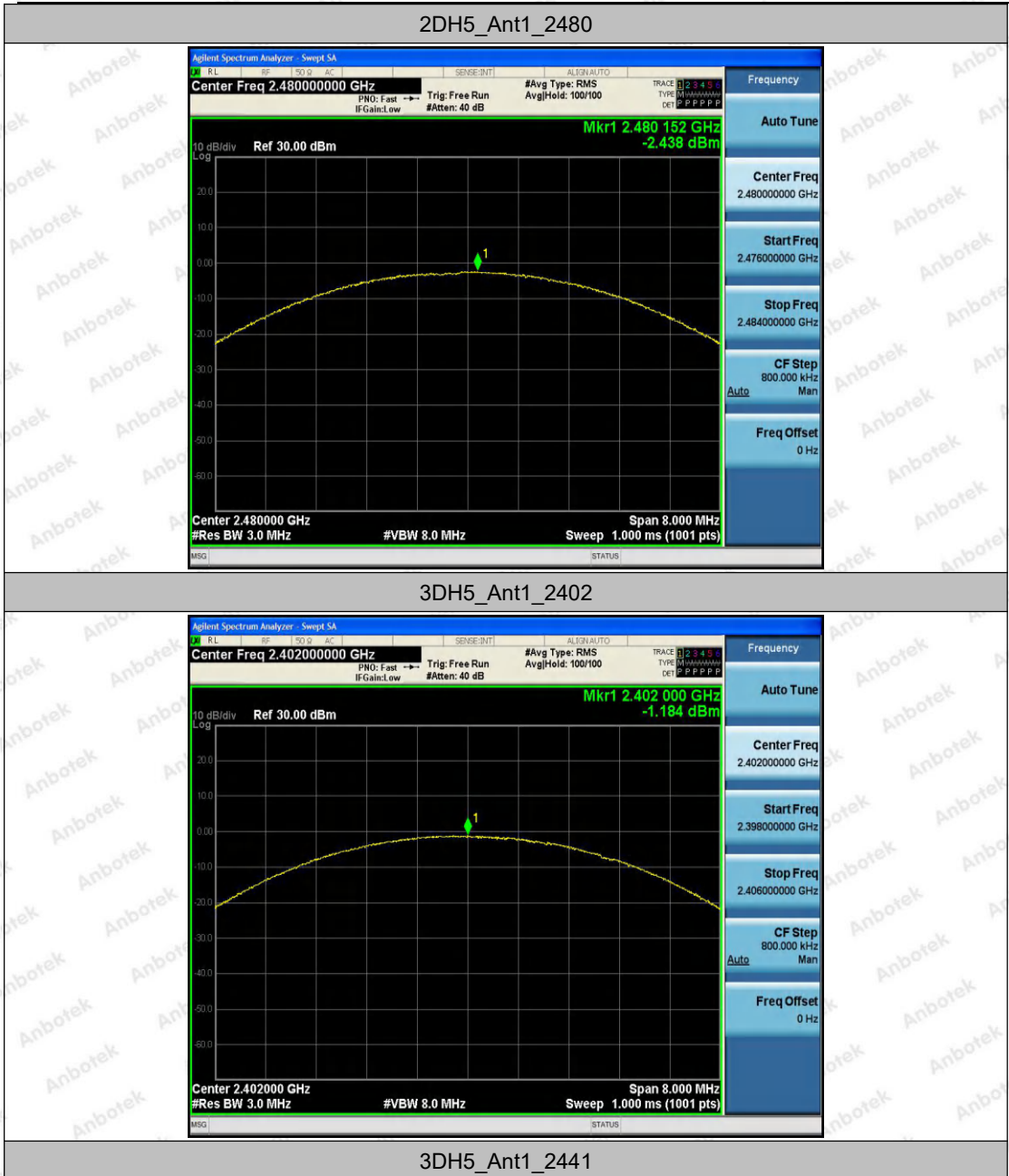


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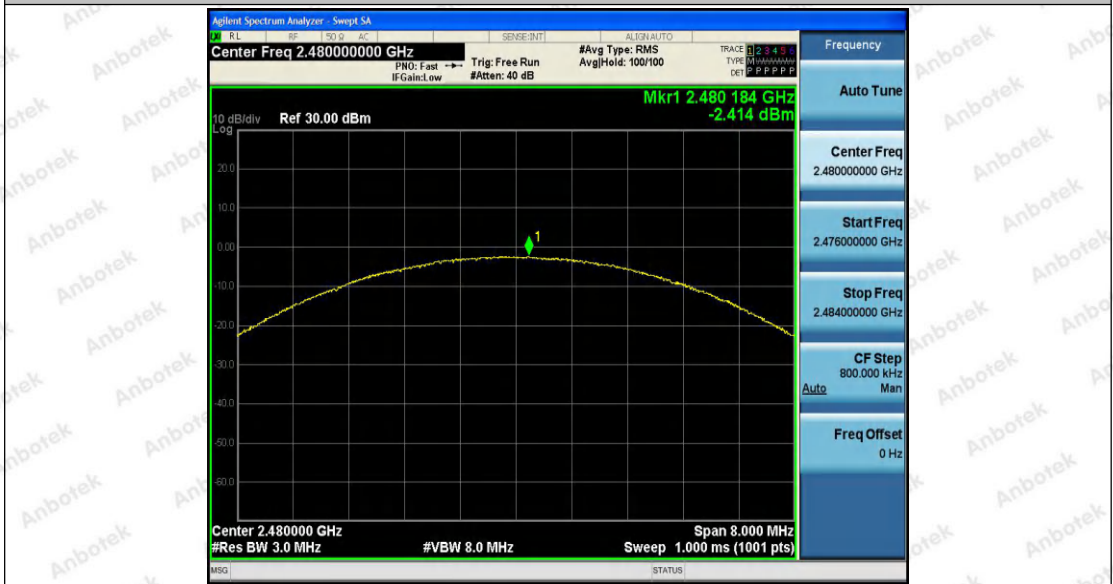
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3DH5_Ant1_2480



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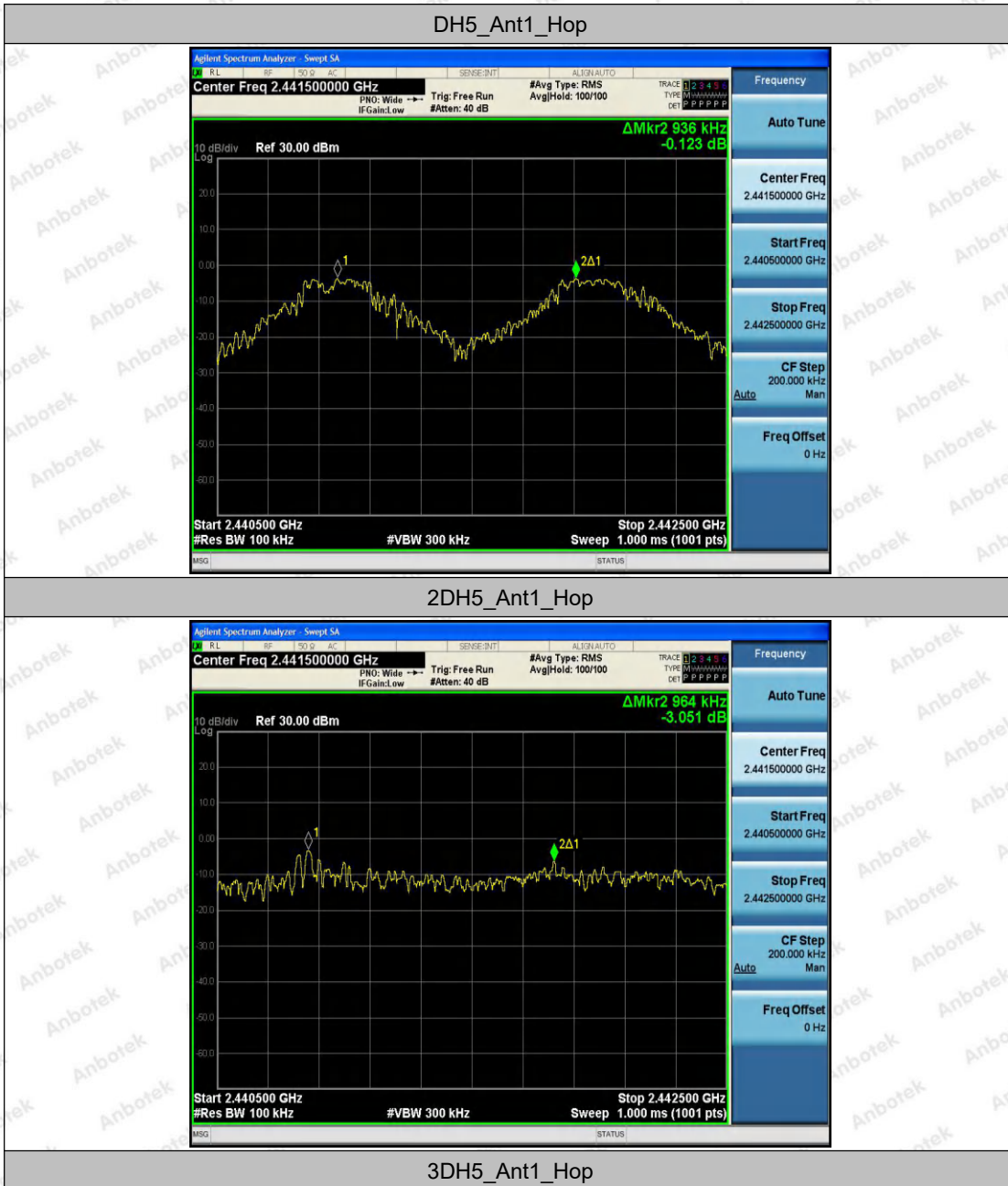
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.936	≥0.858	PASS
2DH5	Ant1	Hop	0.964	≥0.806	PASS
3DH5	Ant1	Hop	0.842	≥0.830	PASS

Test Graphs



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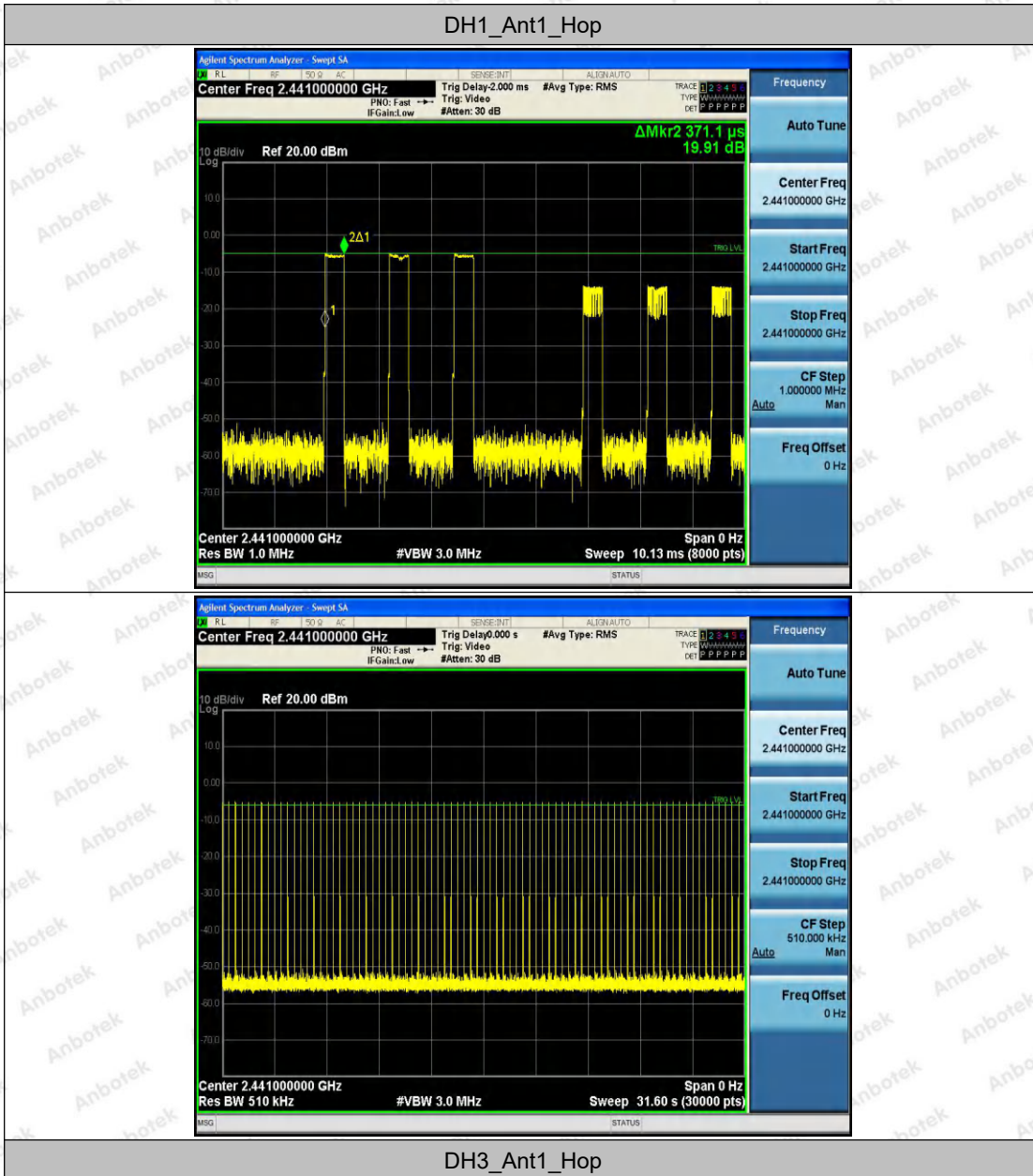
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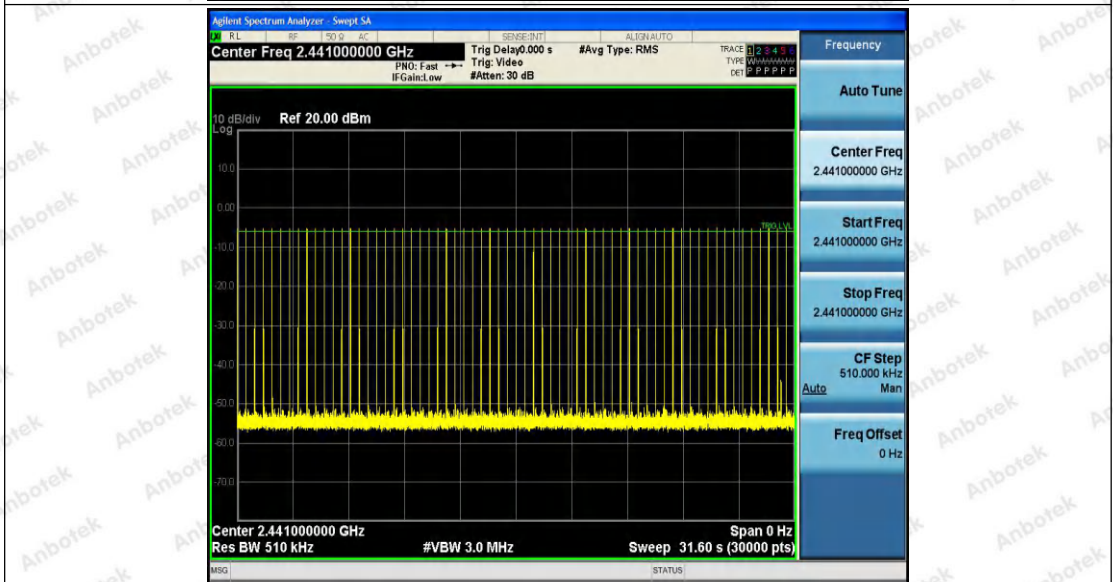
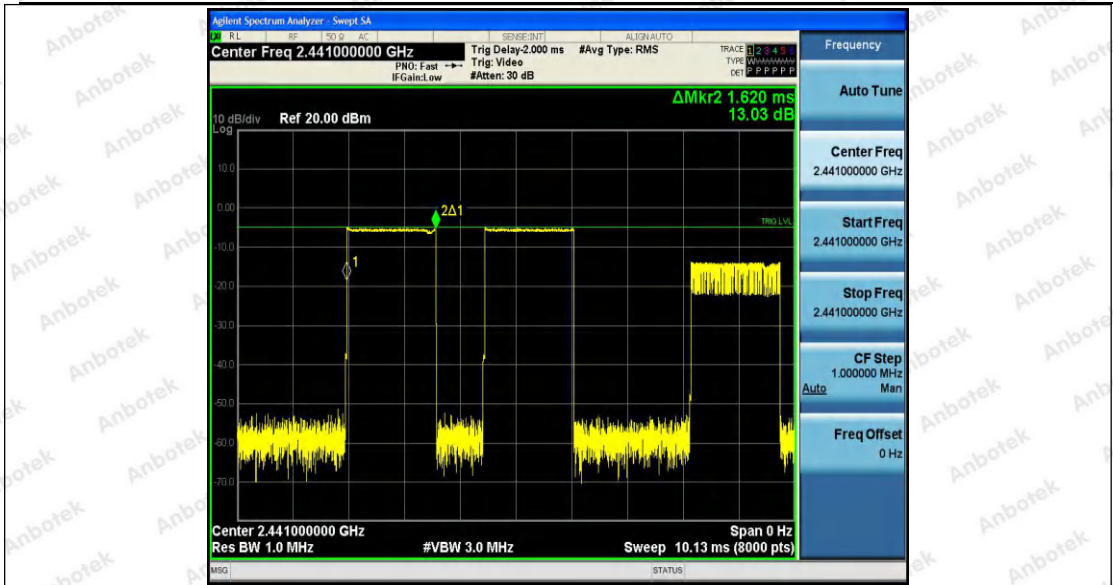
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	80	0.03	≤0.4	PASS
DH3	Ant1	Hop	1.62	64	0.104	≤0.4	PASS
DH5	Ant1	Hop	2.87	46	0.132	≤0.4	PASS
2DH1	Ant1	Hop	0.38	80	0.03	≤0.4	PASS
2DH3	Ant1	Hop	1.63	64	0.104	≤0.4	PASS
2DH5	Ant1	Hop	2.88	46	0.132	≤0.4	PASS
3DH1	Ant1	Hop	0.38	80	0.03	≤0.4	PASS
3DH3	Ant1	Hop	1.63	64	0.104	≤0.4	PASS
3DH5	Ant1	Hop	2.88	46	0.132	≤0.4	PASS

Test Graphs


DH3_Ant1_Hop



DH5_Ant1_Hop

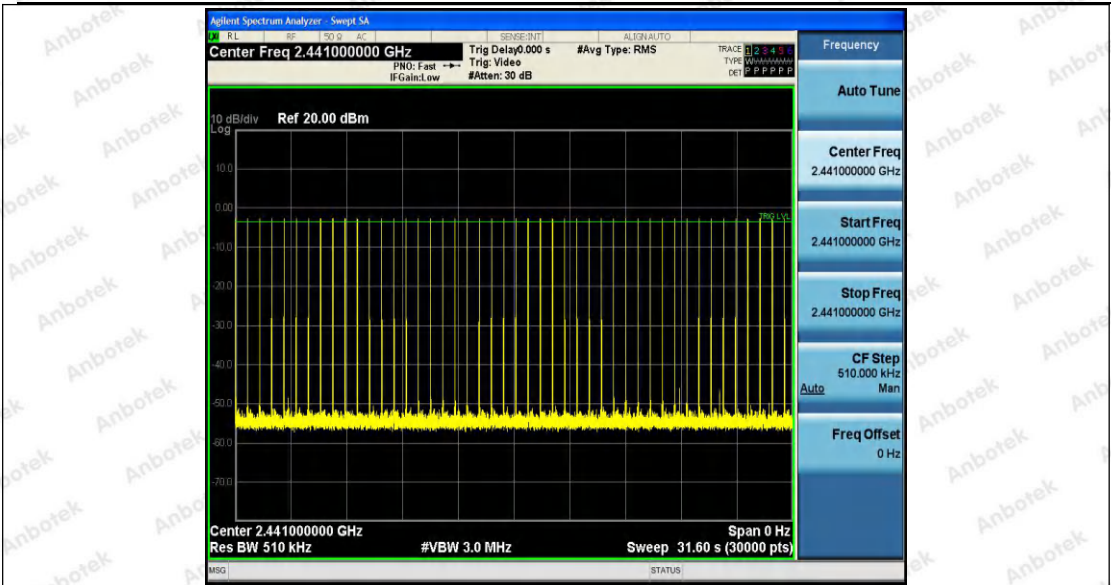


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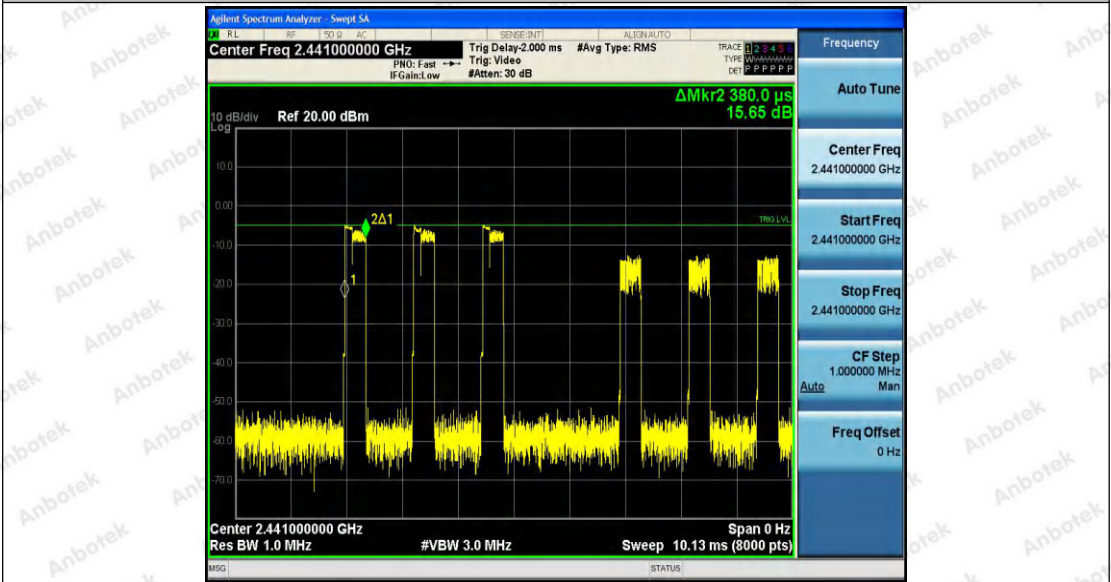
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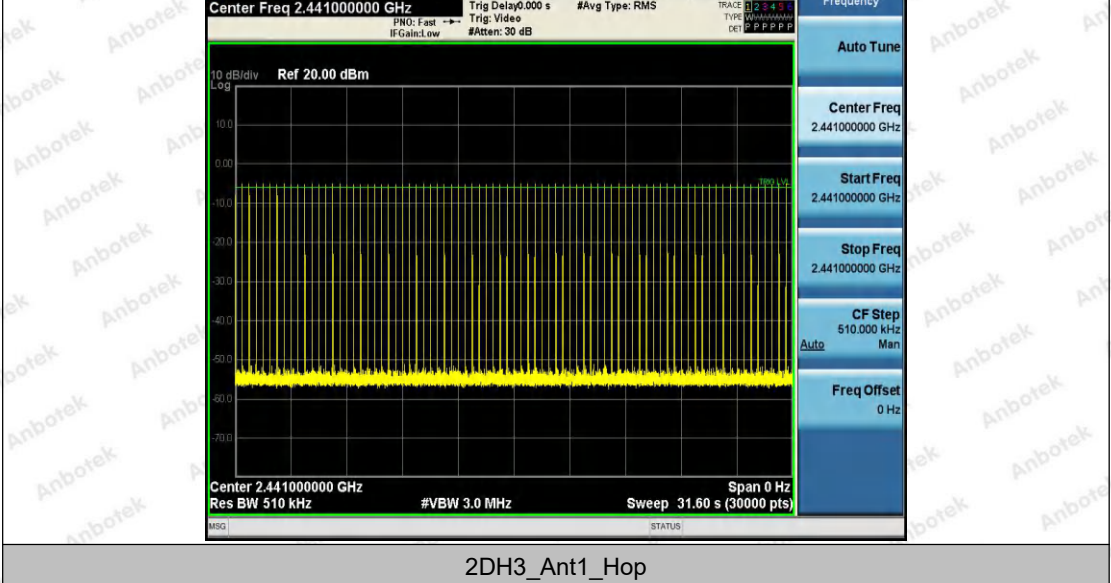
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

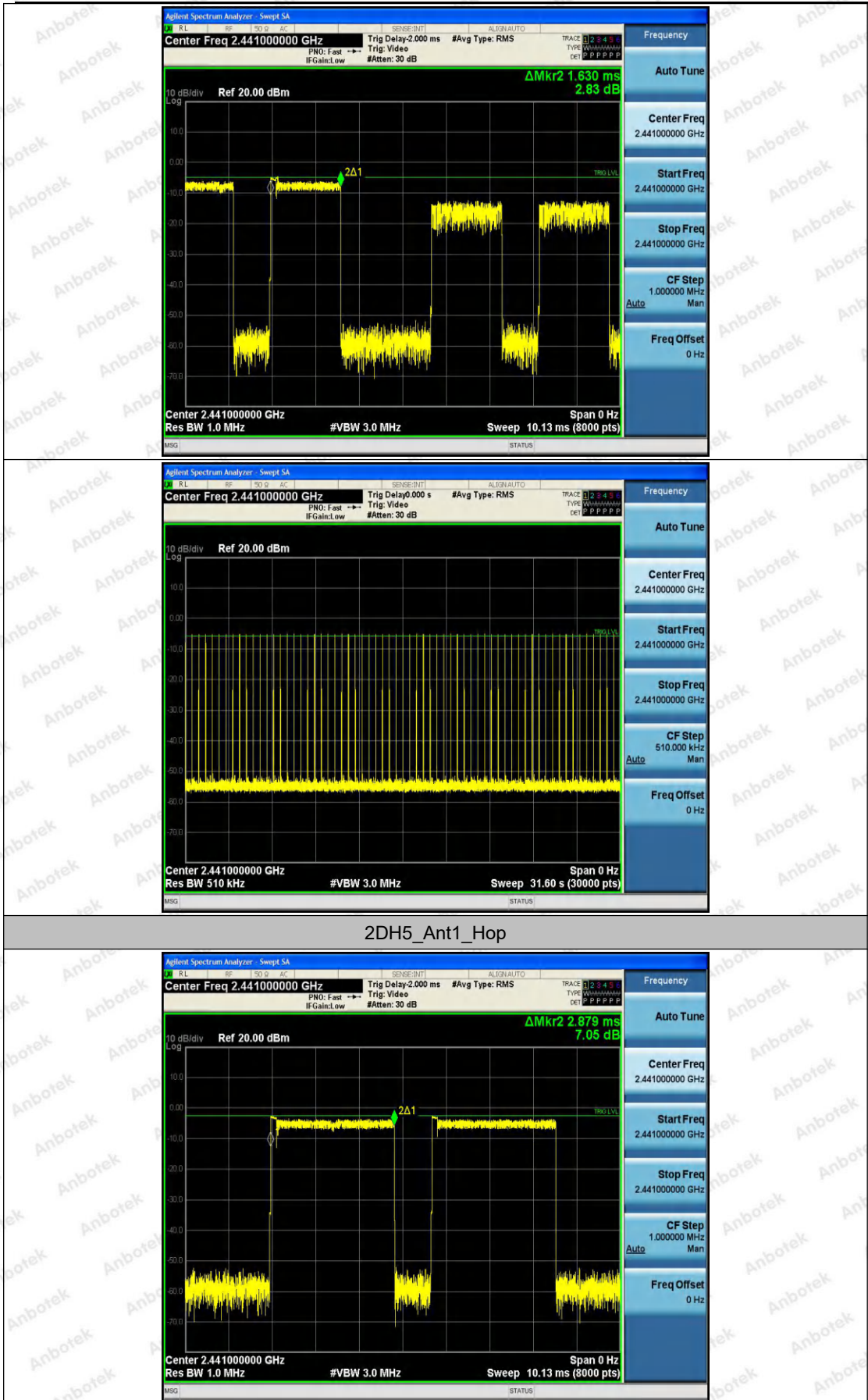


2DH3_Ant1_Hop

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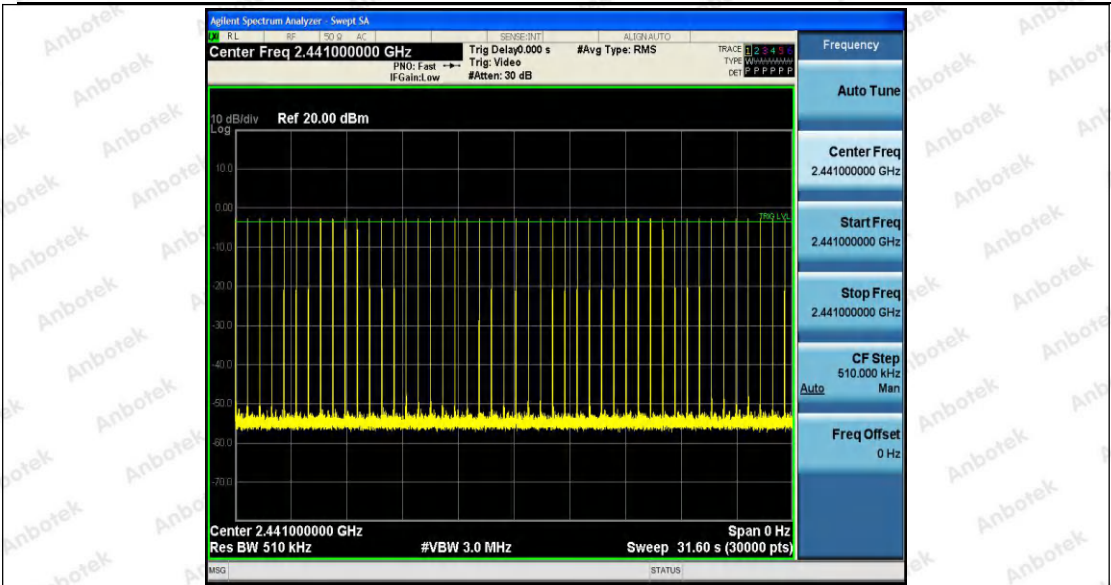
2DH5_Ant1_Hop

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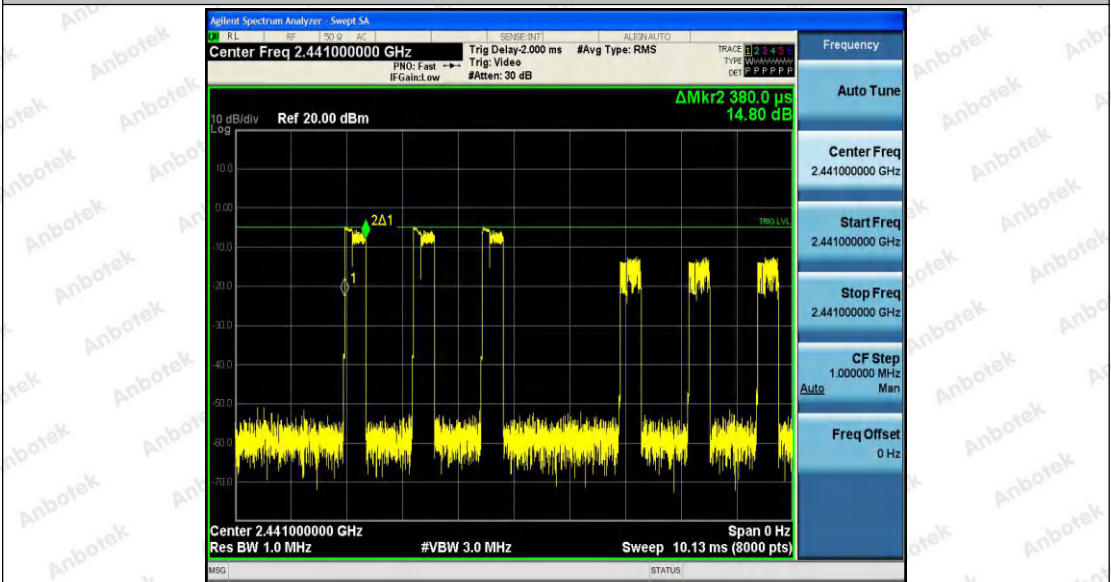
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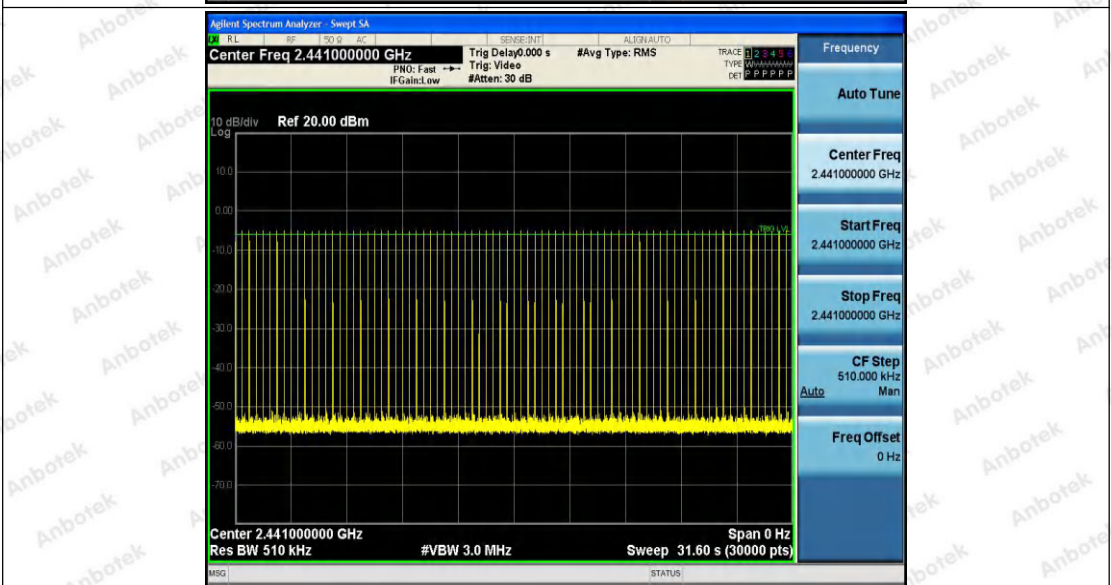
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3DH1_Ant1_Hop



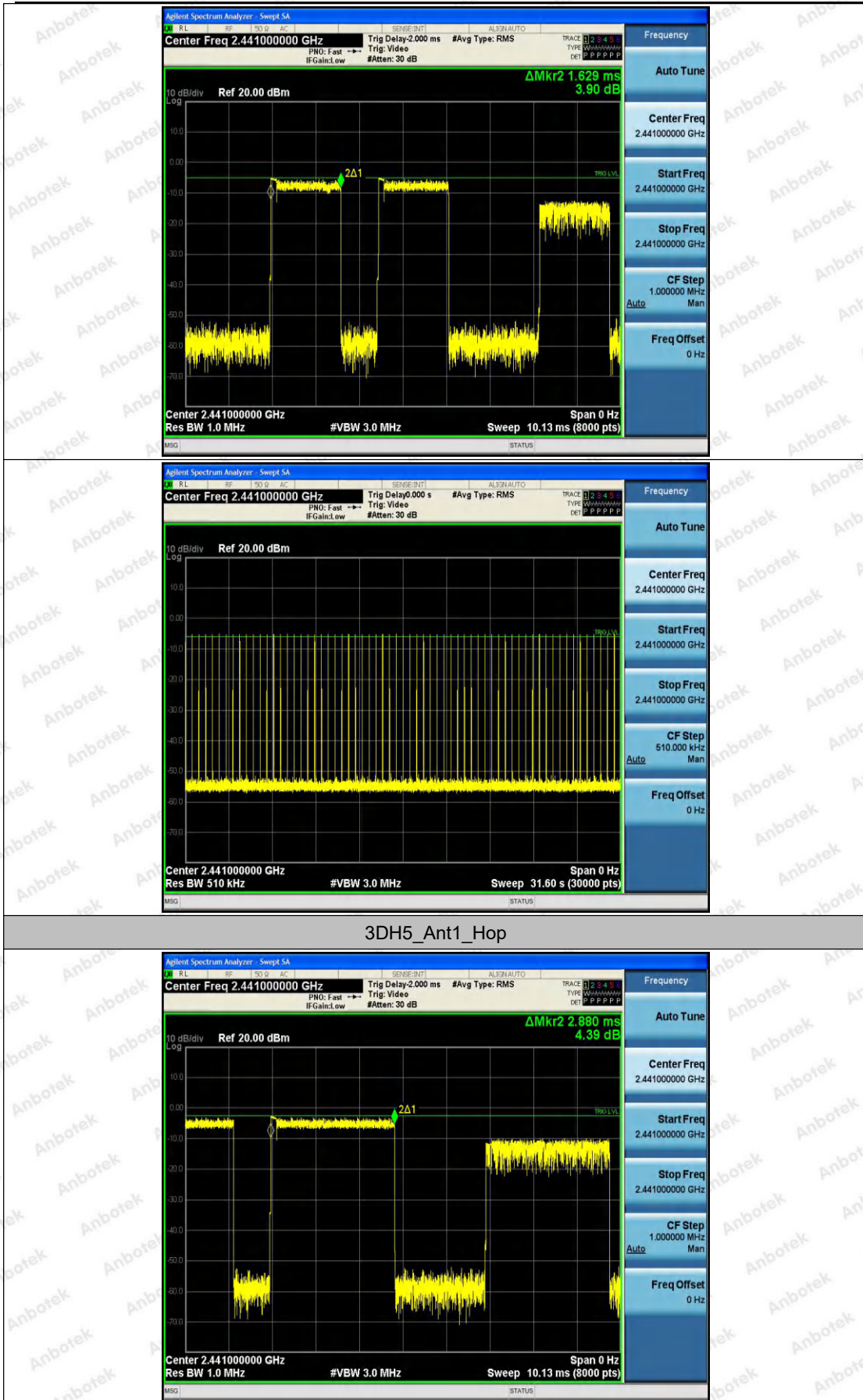
3DH3_Ant1_Hop



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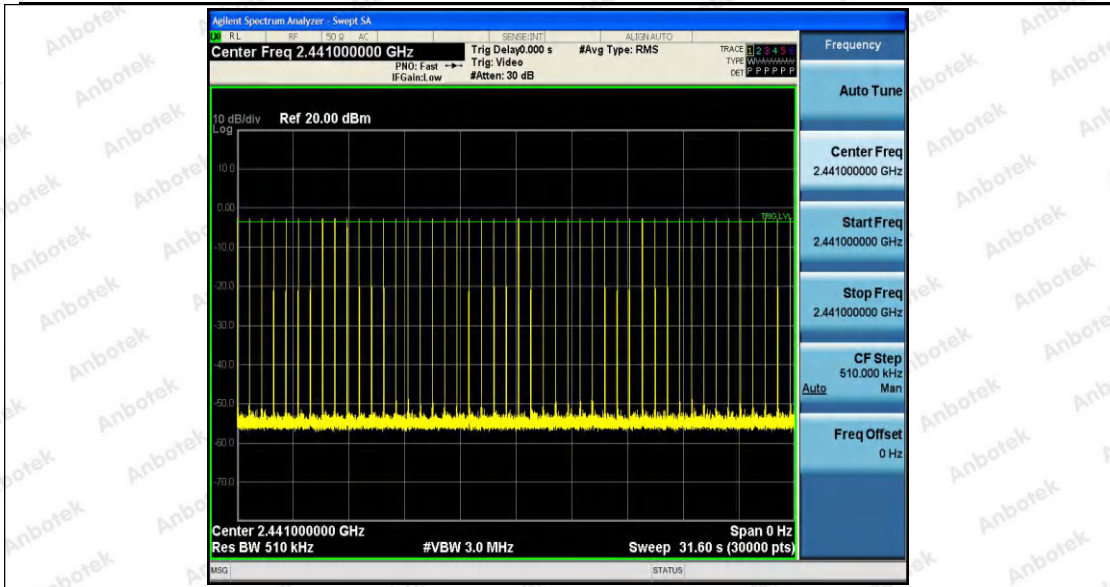
3DH5_Ant1_Hop

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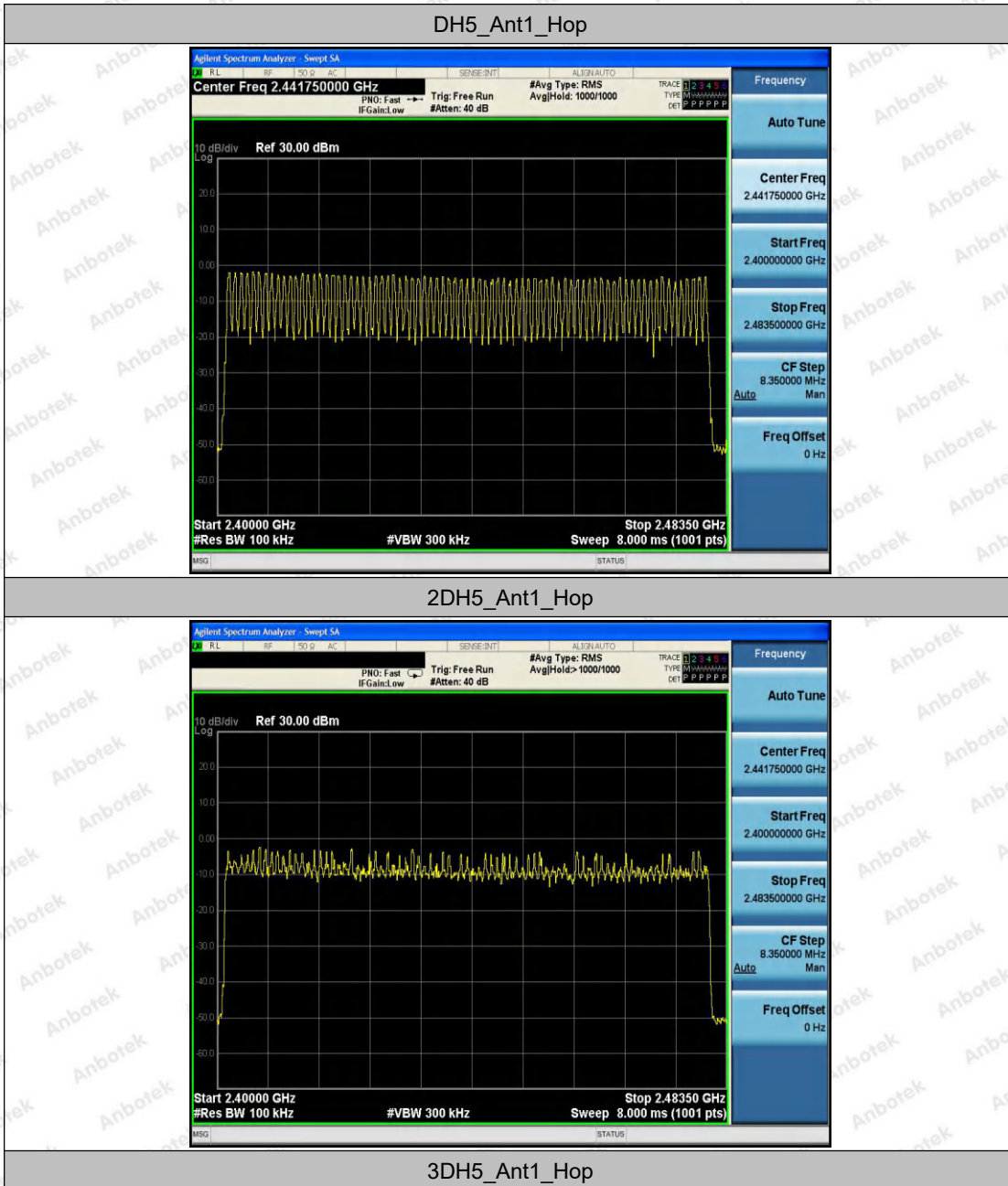
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Appendix F: Number of hopping channels

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

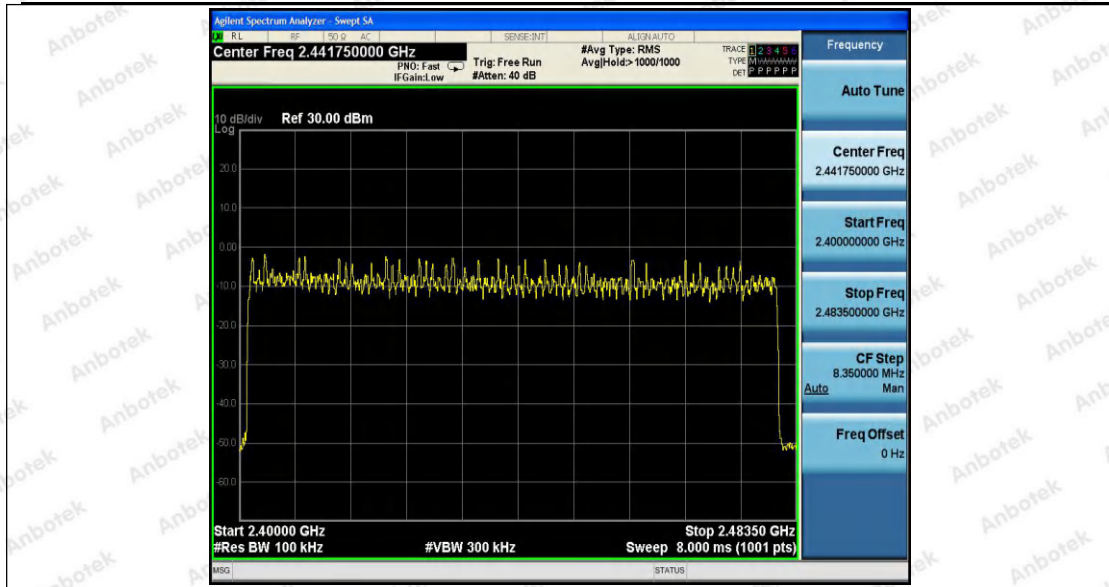


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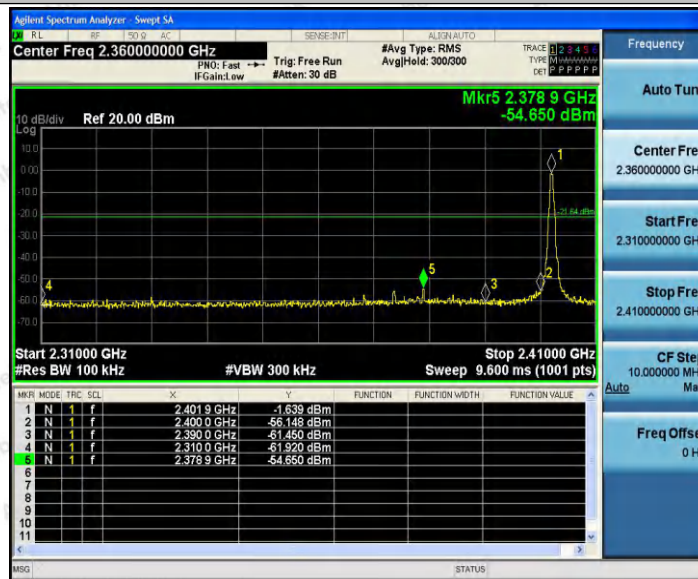
Appendix G: Band edge measurements

Test Result

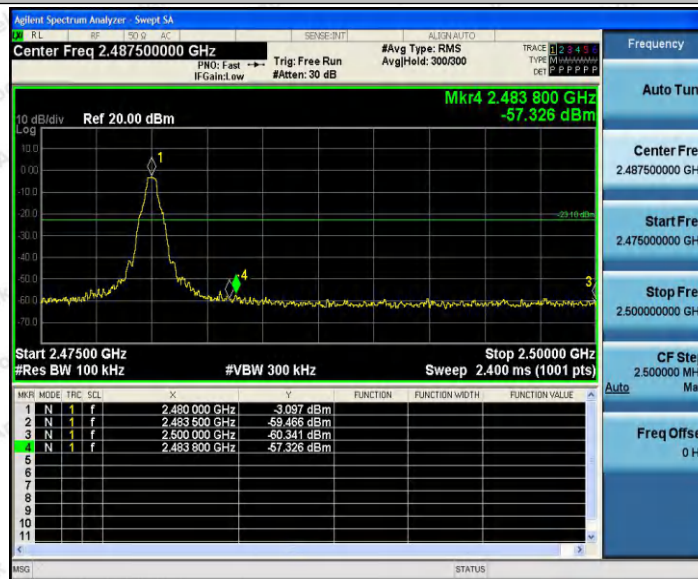
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.64	-54.65	≤-21.64	PASS
		High	2480	-3.10	-57.33	≤-23.1	PASS
		Low	Hop	-1.97	-53.47	≤-21.97	PASS
		High	Hop	-3.26	-60.04	≤-23.26	PASS
2DH5	Ant1	Low	2402	-2.39	-56.66	≤-22.39	PASS
		High	2480	-3.37	-58.77	≤-23.37	PASS
		Low	Hop	-6.85	-56.55	≤-26.85	PASS
		High	Hop	-3.68	-60.79	≤-23.68	PASS
3DH5	Ant1	Low	2402	-1.74	-56.91	≤-21.74	PASS
		High	2480	-2.96	-59.21	≤-22.96	PASS
		Low	Hop	-2.95	-59.3	≤-22.95	PASS
		High	Hop	-5.57	-62.12	≤-25.57	PASS

Test Graphs

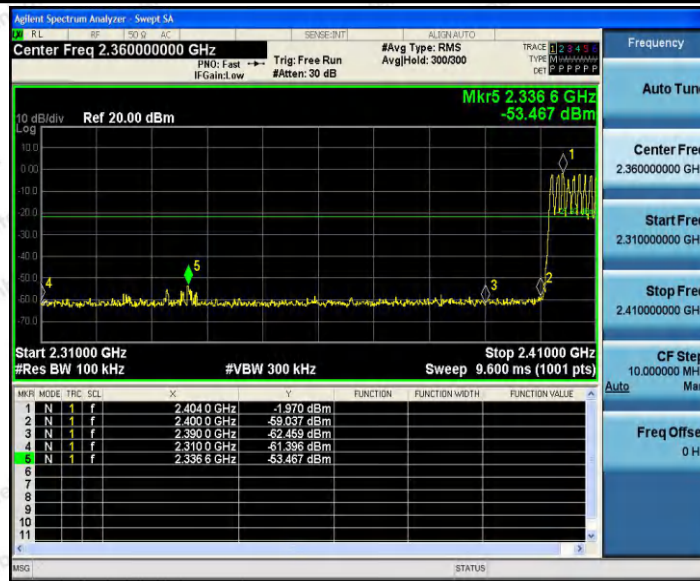
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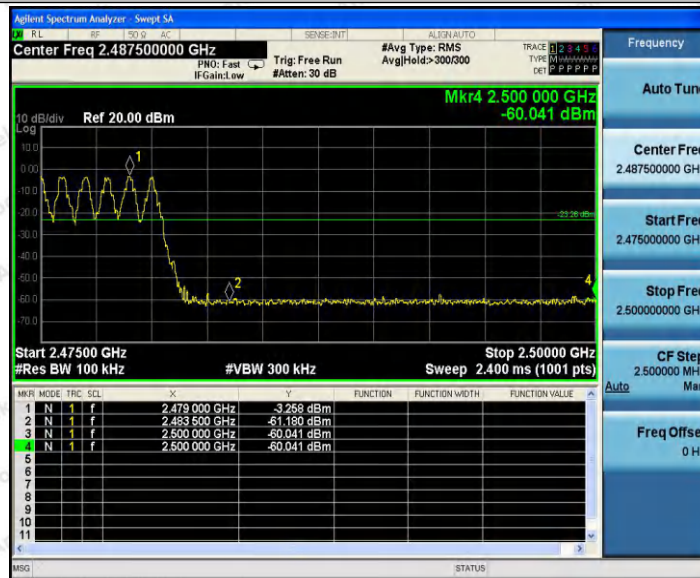
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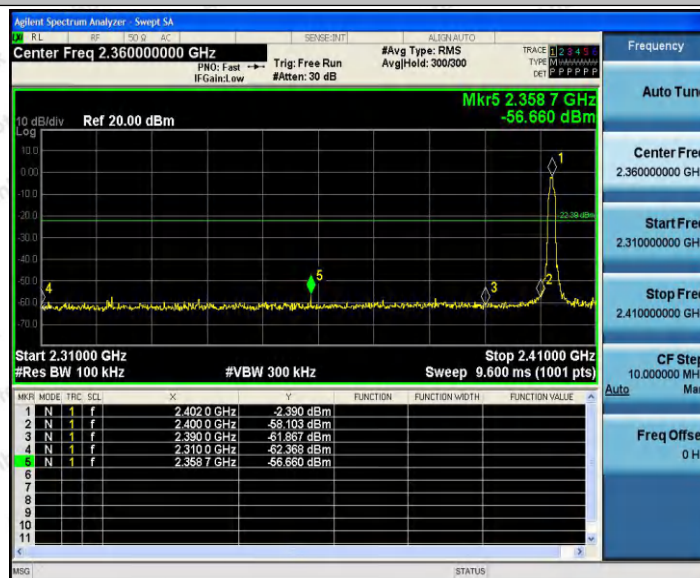
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



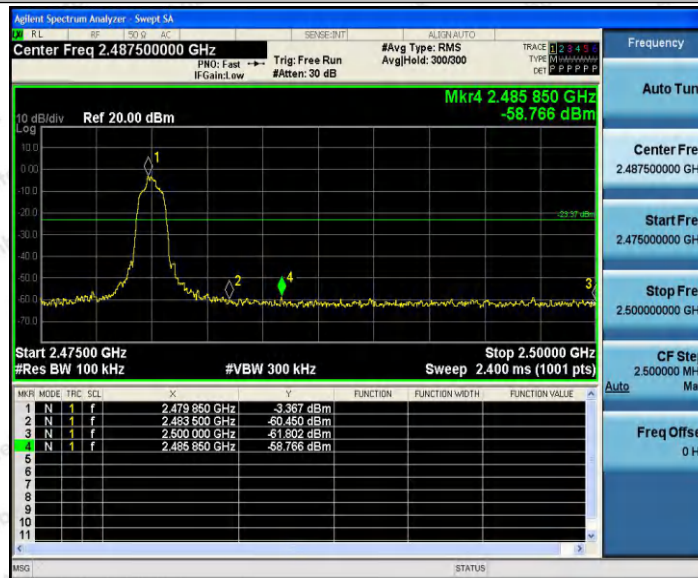
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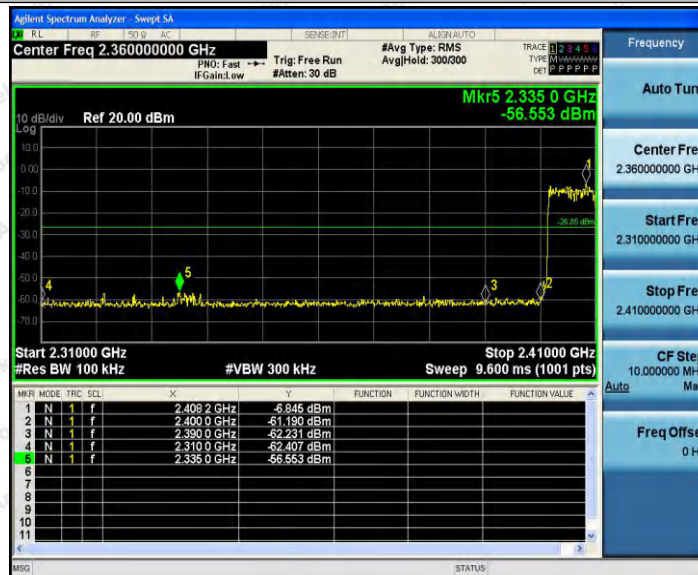
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



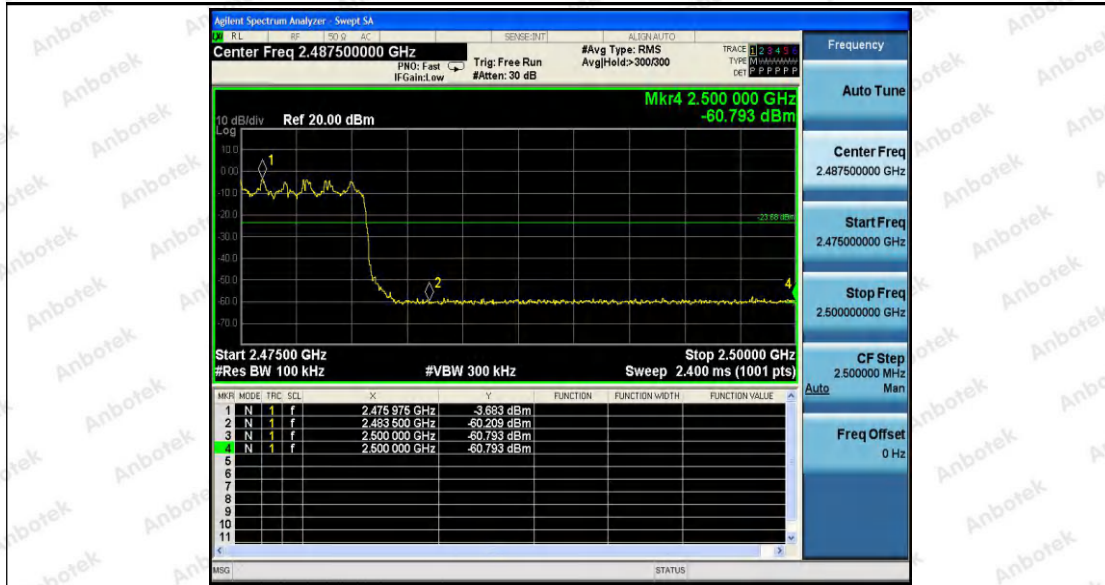
2DH5_Ant1_High_Hop

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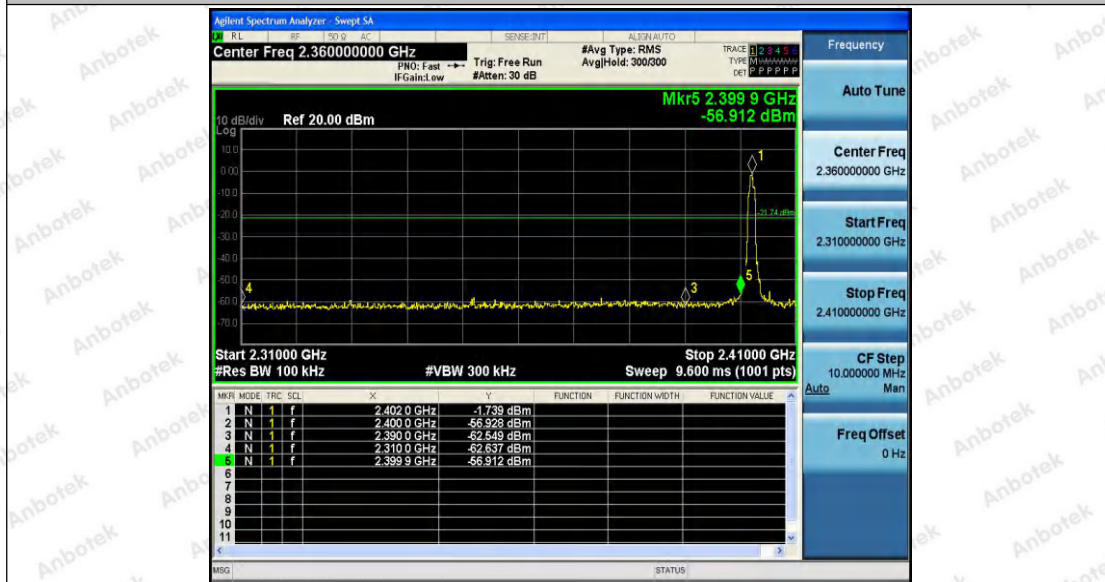
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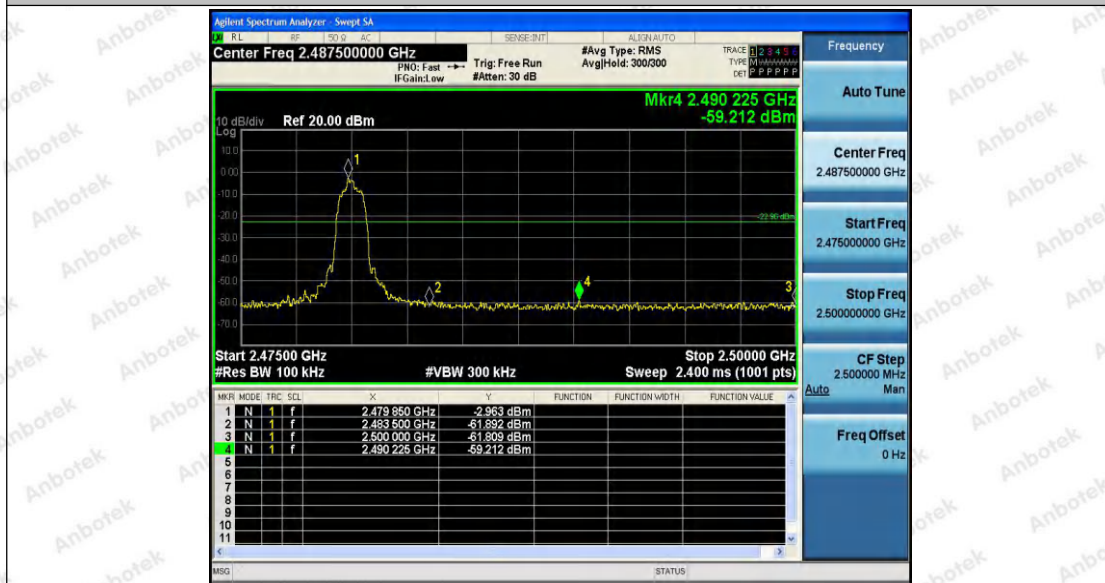
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3DH5_Ant1_Low_2402



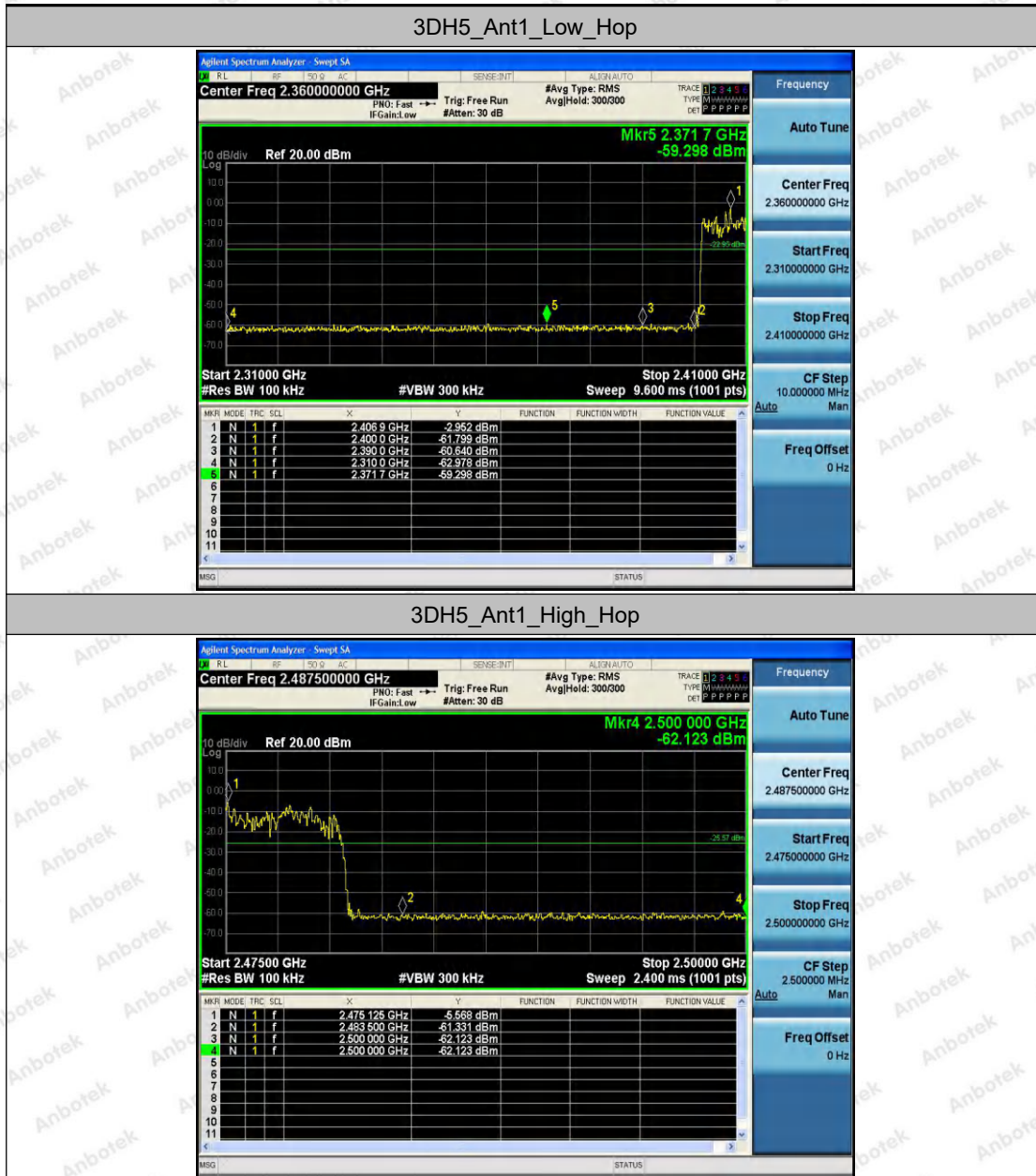
3DH5_Ant1_High_2480



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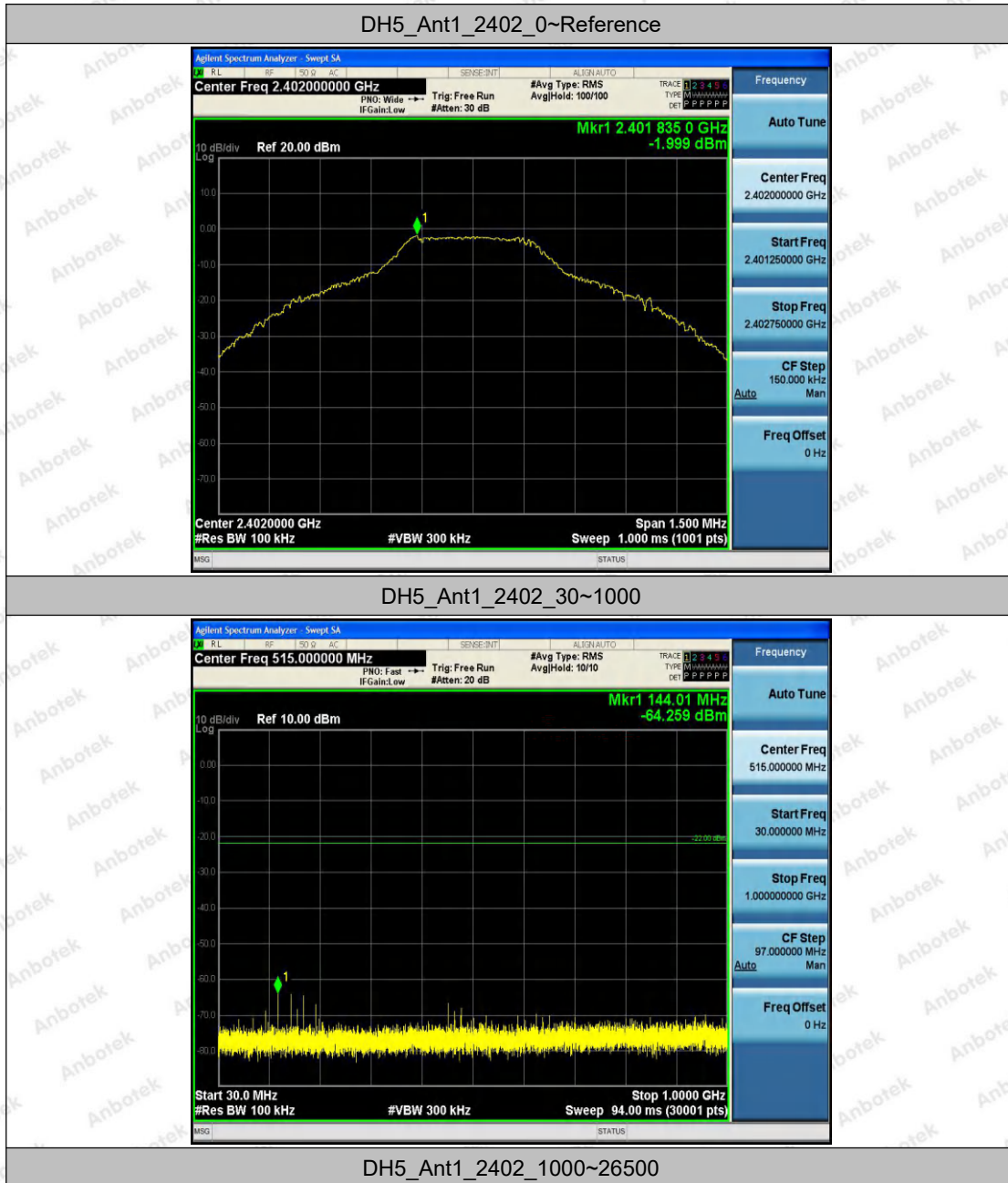
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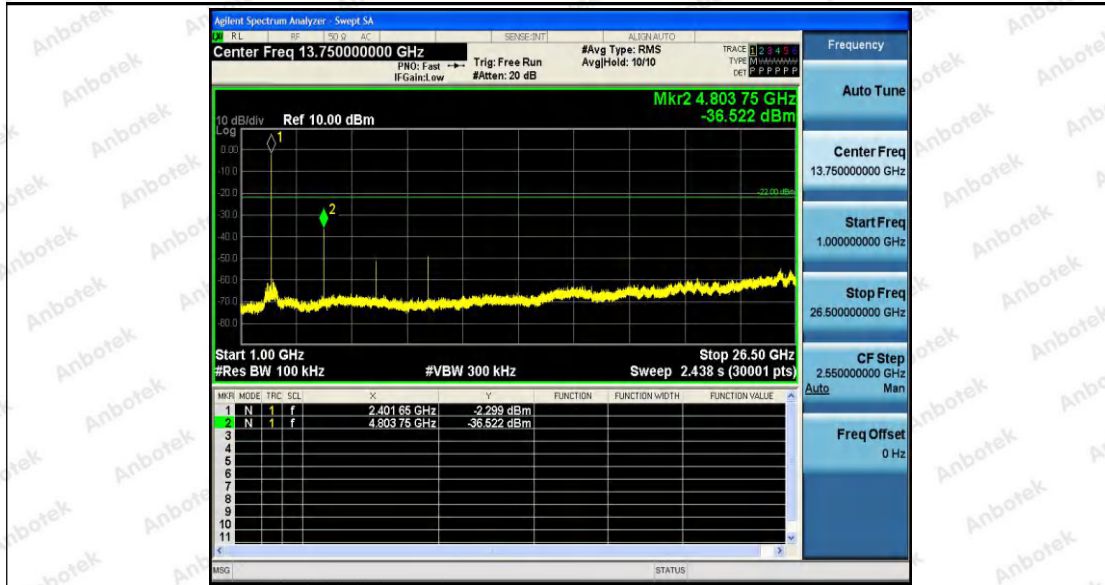
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.00	-2.00	---	PASS
			30~1000	-2.00	-64.26	≤-22	PASS
			1000~26500	-2.00	-36.52	≤-22	PASS
		2441	Reference	-3.71	-3.71	---	PASS
			30~1000	-3.71	-63.31	≤-23.71	PASS
			1000~26500	-3.71	-38.18	≤-23.71	PASS
		2480	Reference	-3.17	-3.17	---	PASS
			30~1000	-3.17	-63.49	≤-23.17	PASS
			1000~26500	-3.17	-39.48	≤-23.17	PASS
2DH5	Ant1	2402	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-63.51	≤-21.99	PASS
			1000~26500	-1.99	-38.29	≤-21.99	PASS
		2441	Reference	-3.76	-3.76	---	PASS
			30~1000	-3.76	-62.79	≤-23.76	PASS
			1000~26500	-3.76	-37.63	≤-23.76	PASS
		2480	Reference	-3.66	-3.66	---	PASS
			30~1000	-3.66	-64.3	≤-23.66	PASS
			1000~26500	-3.66	-40.05	≤-23.66	PASS
3DH5	Ant1	2402	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-62.78	≤-21.93	PASS
			1000~26500	-1.93	-42.73	≤-21.93	PASS
		2441	Reference	-3.29	-3.29	---	PASS
			30~1000	-3.29	-63.78	≤-23.29	PASS
			1000~26500	-3.29	-39.96	≤-23.29	PASS
		2480	Reference	-3.45	-3.45	---	PASS
			30~1000	-3.45	-62.91	≤-23.45	PASS
			1000~26500	-3.45	-45.44	≤-23.45	PASS

Test Graphs

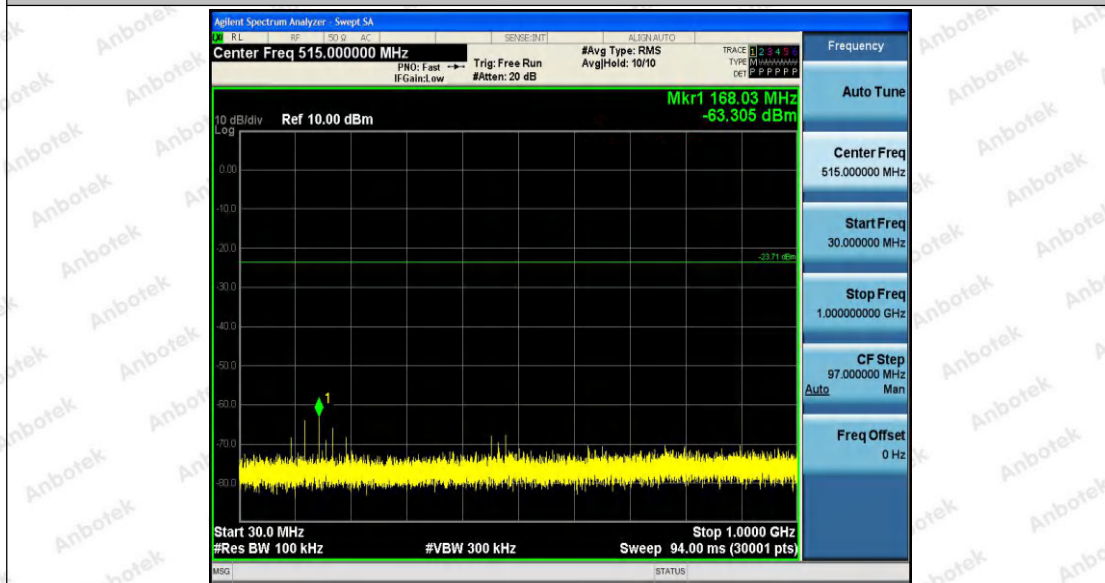




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

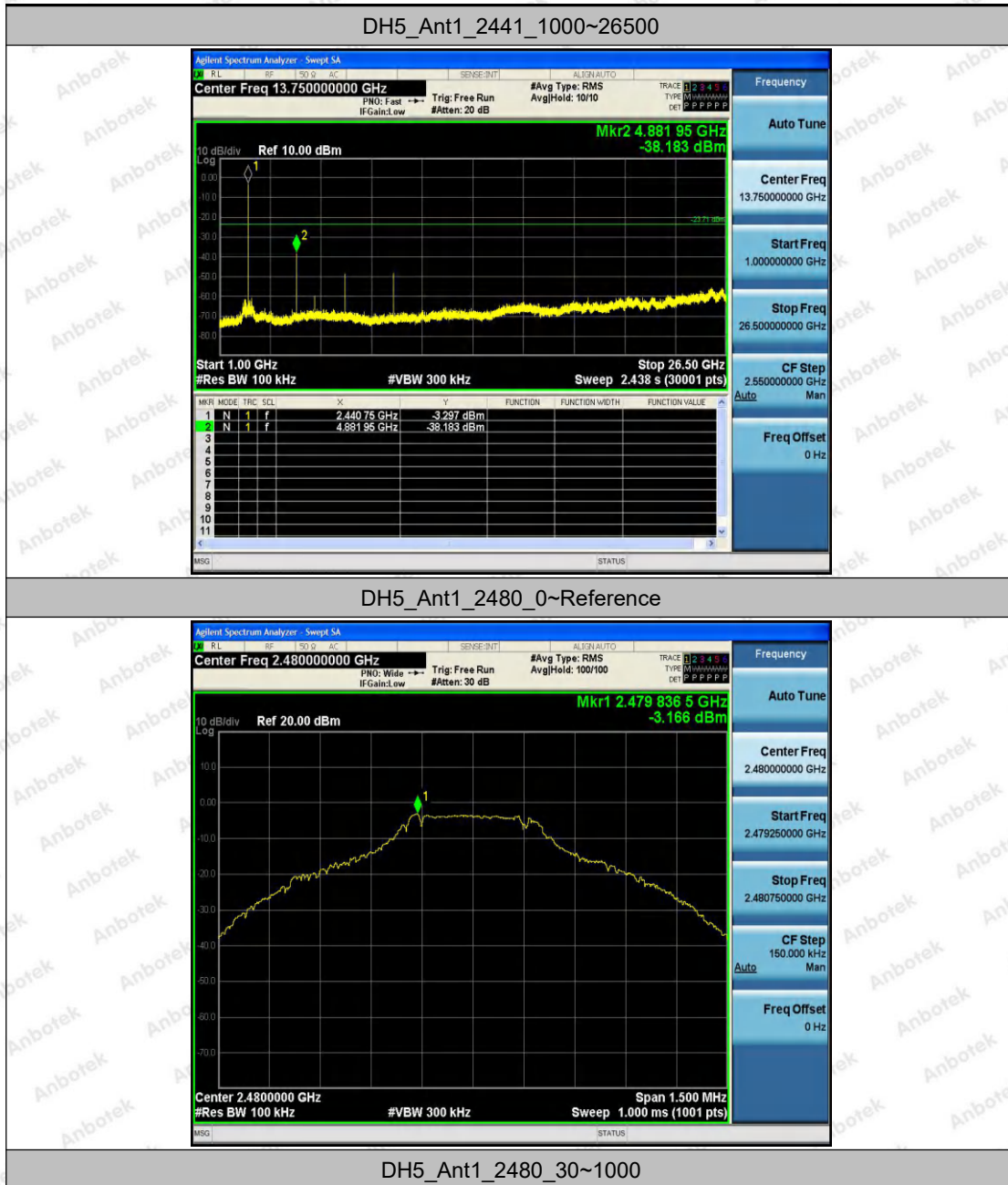


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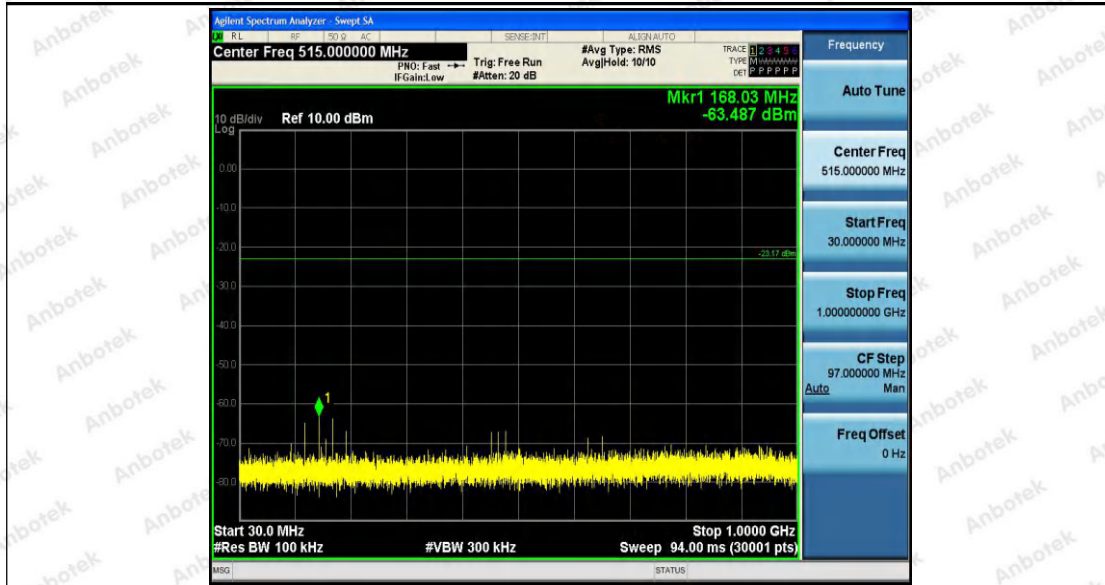


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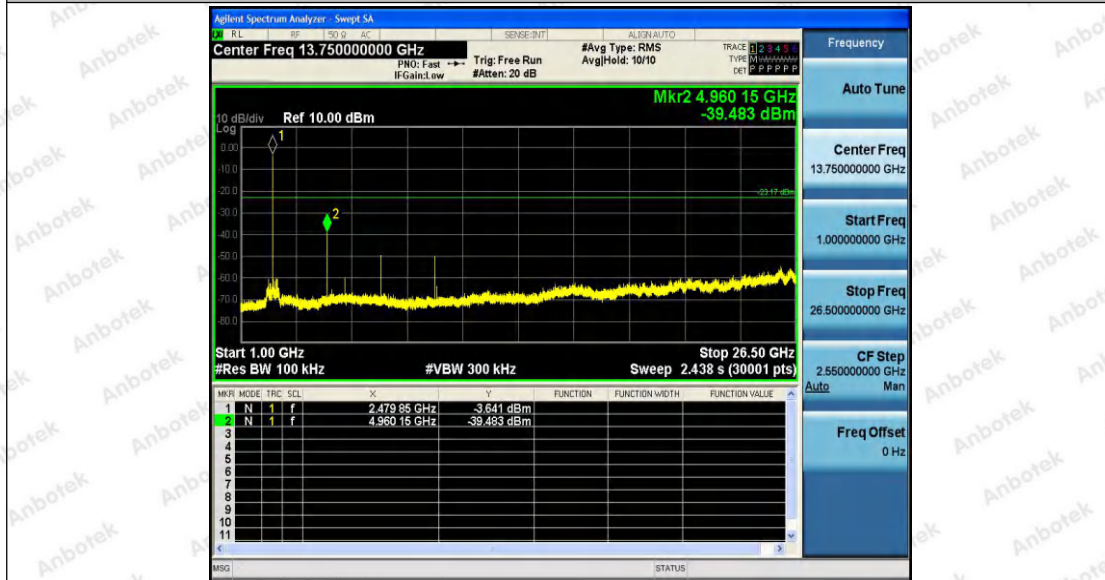
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

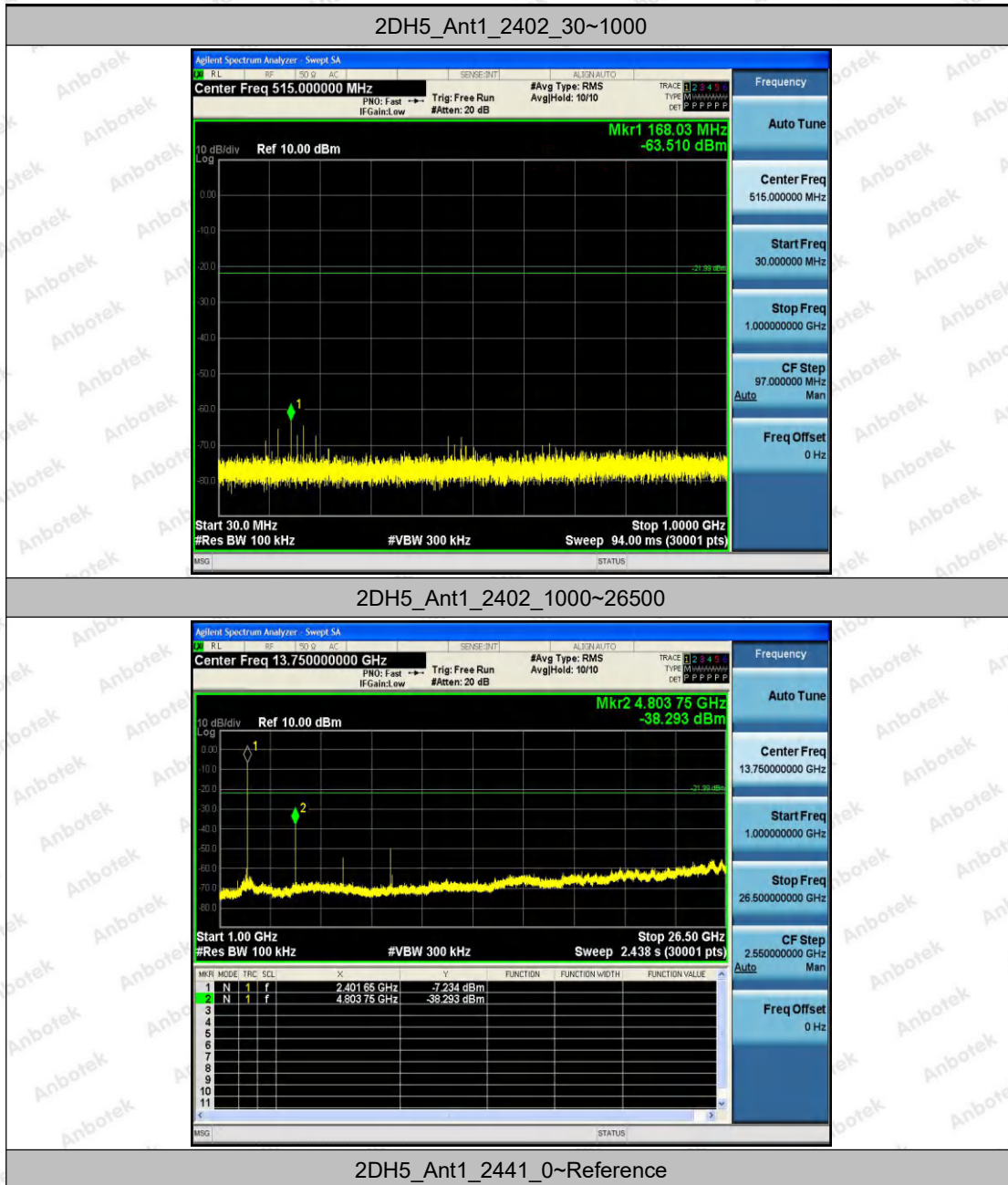


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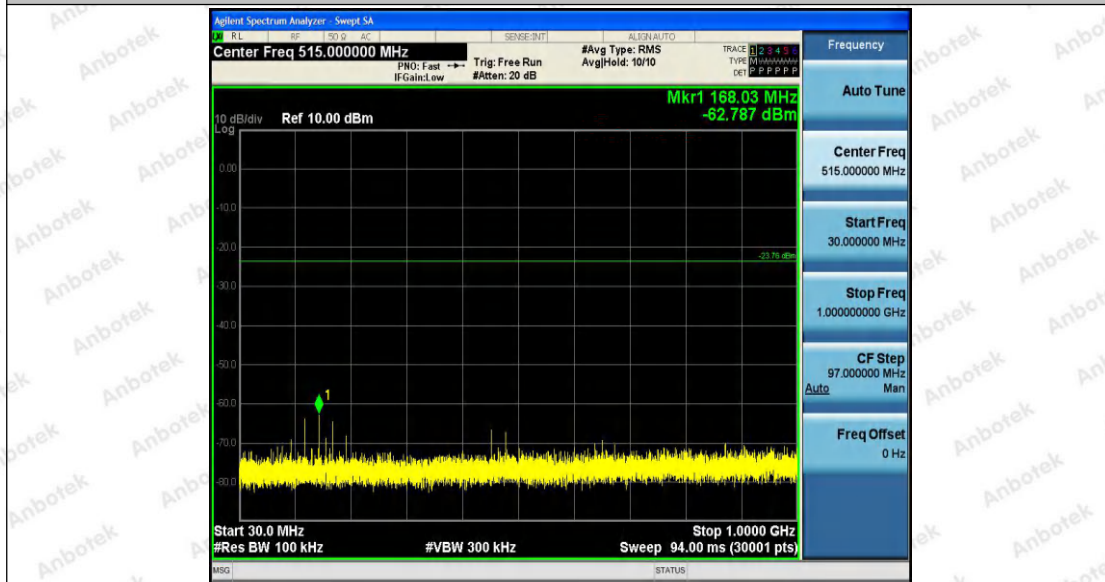
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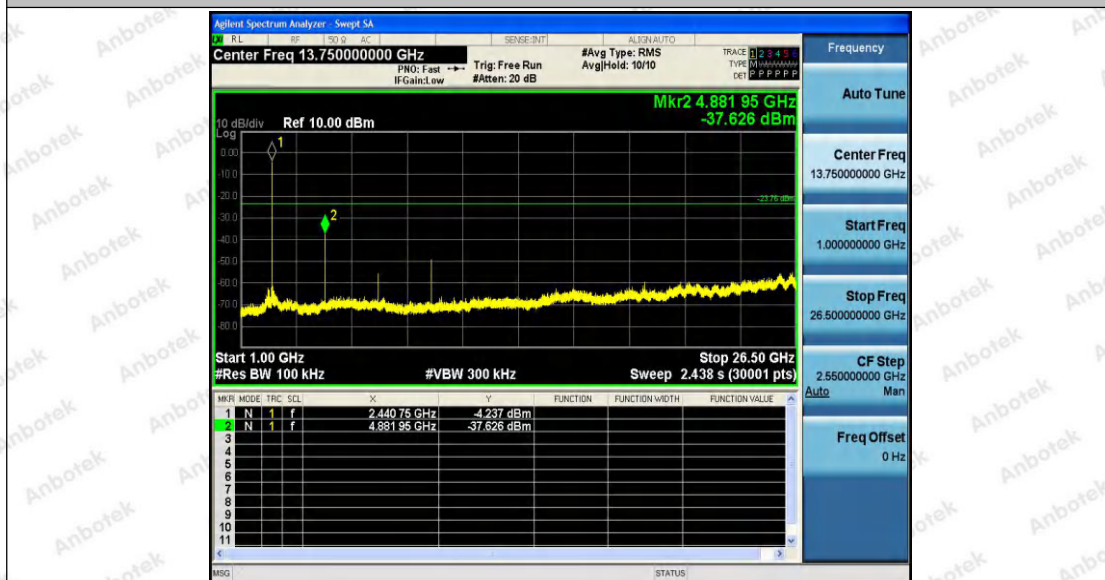
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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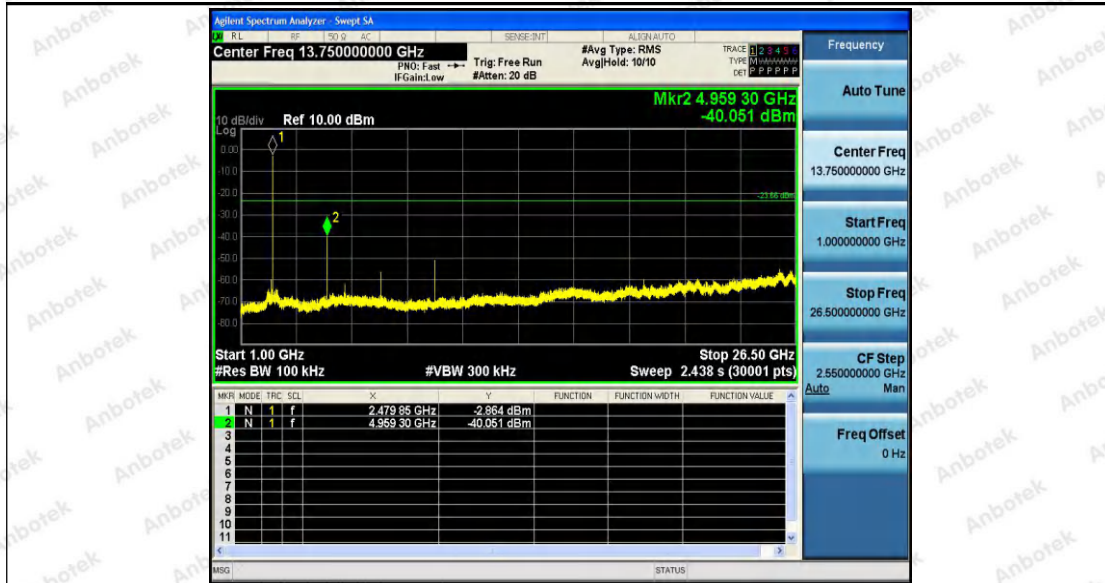


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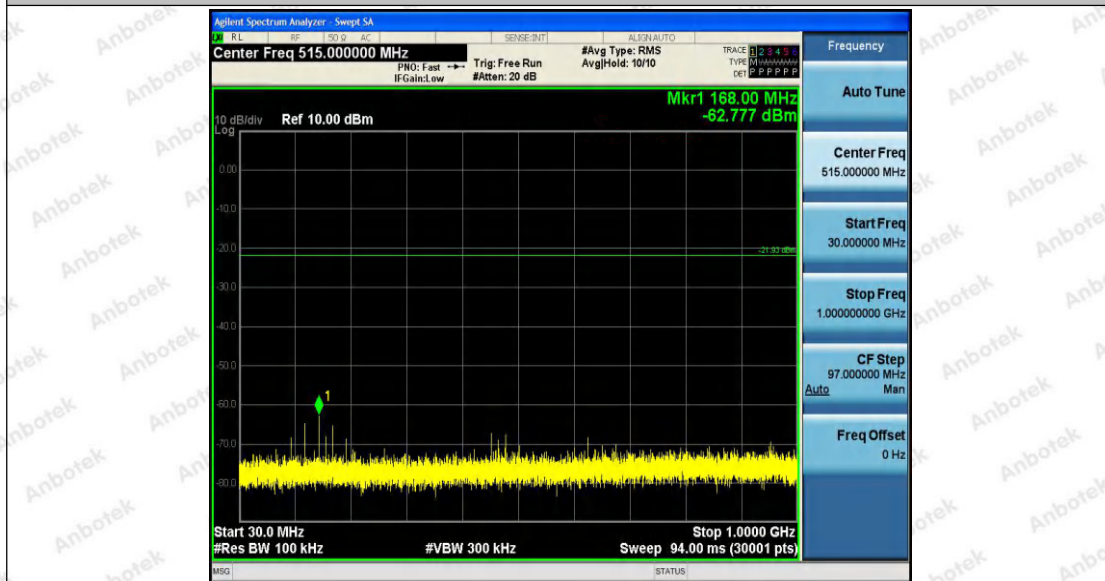
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

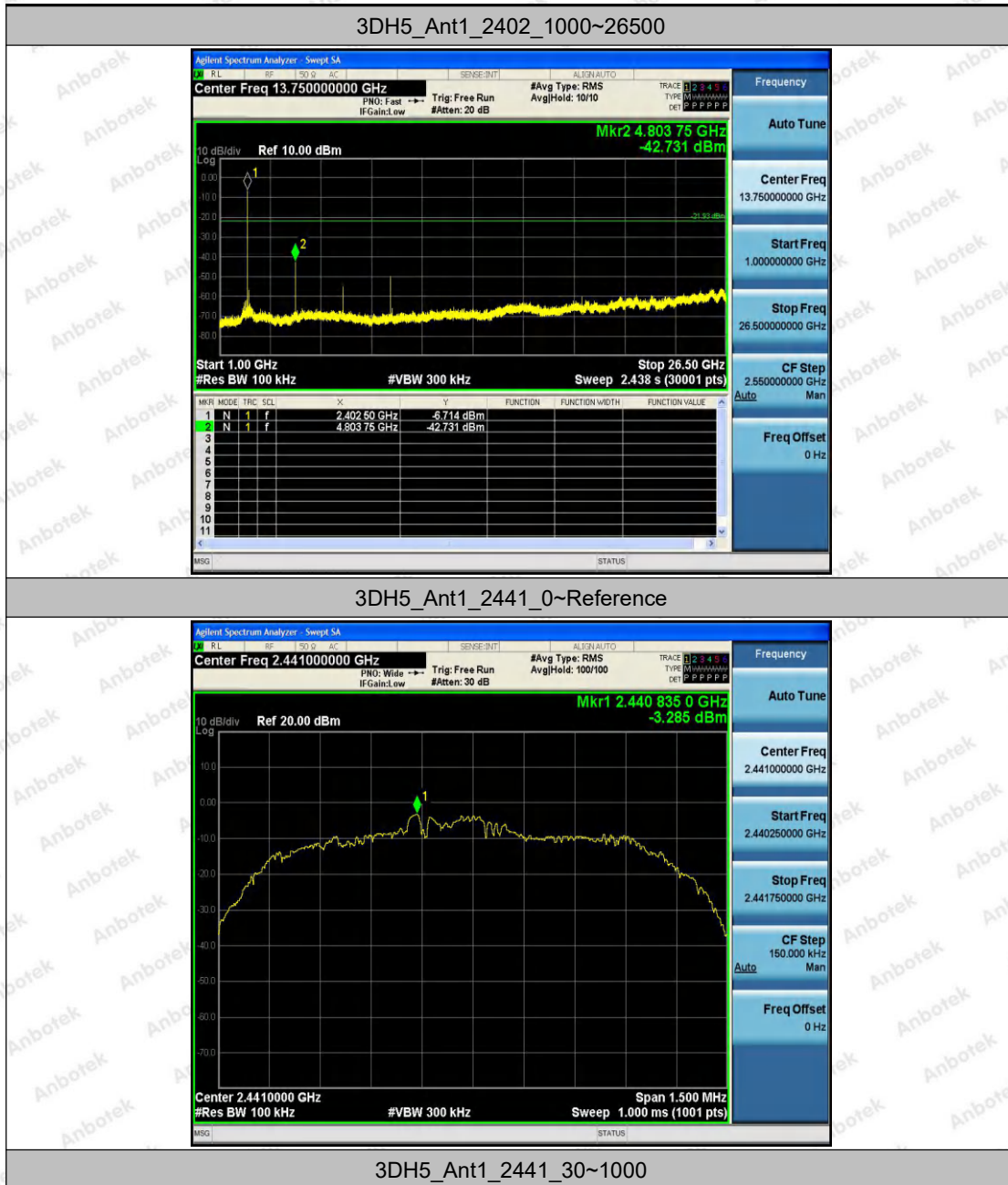


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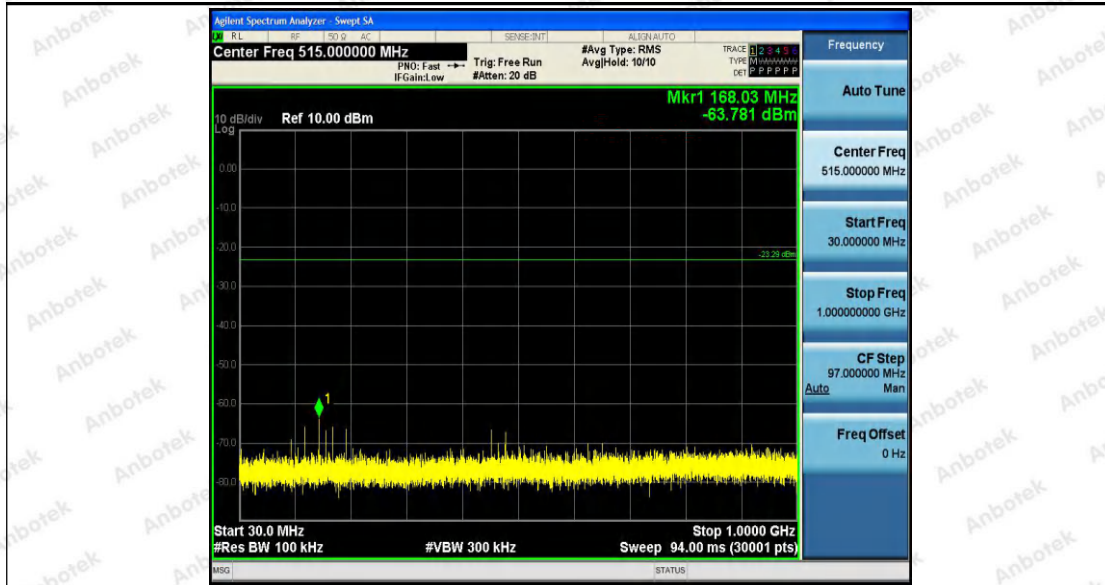


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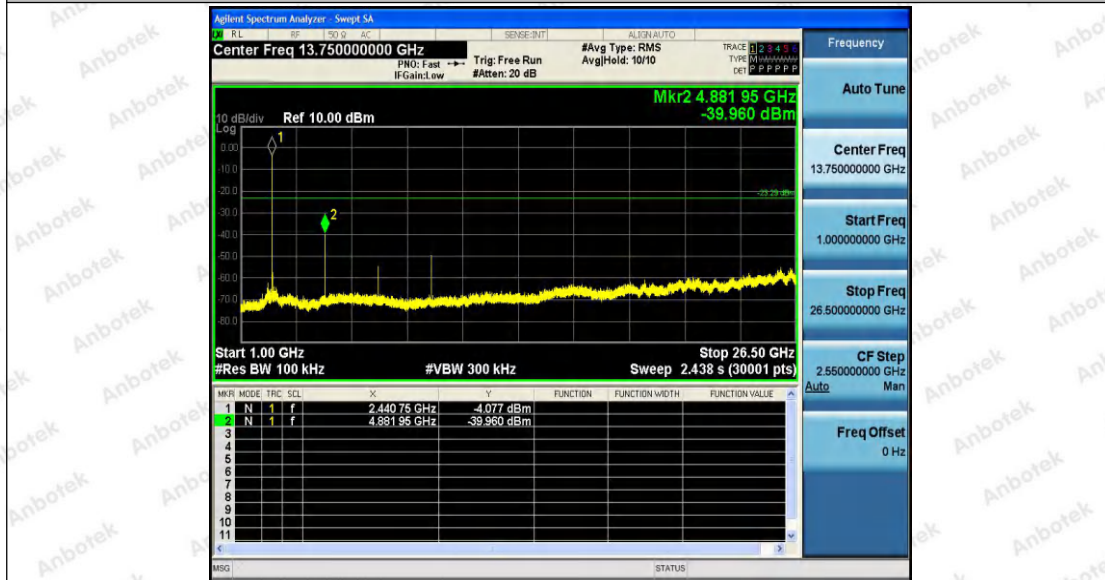
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

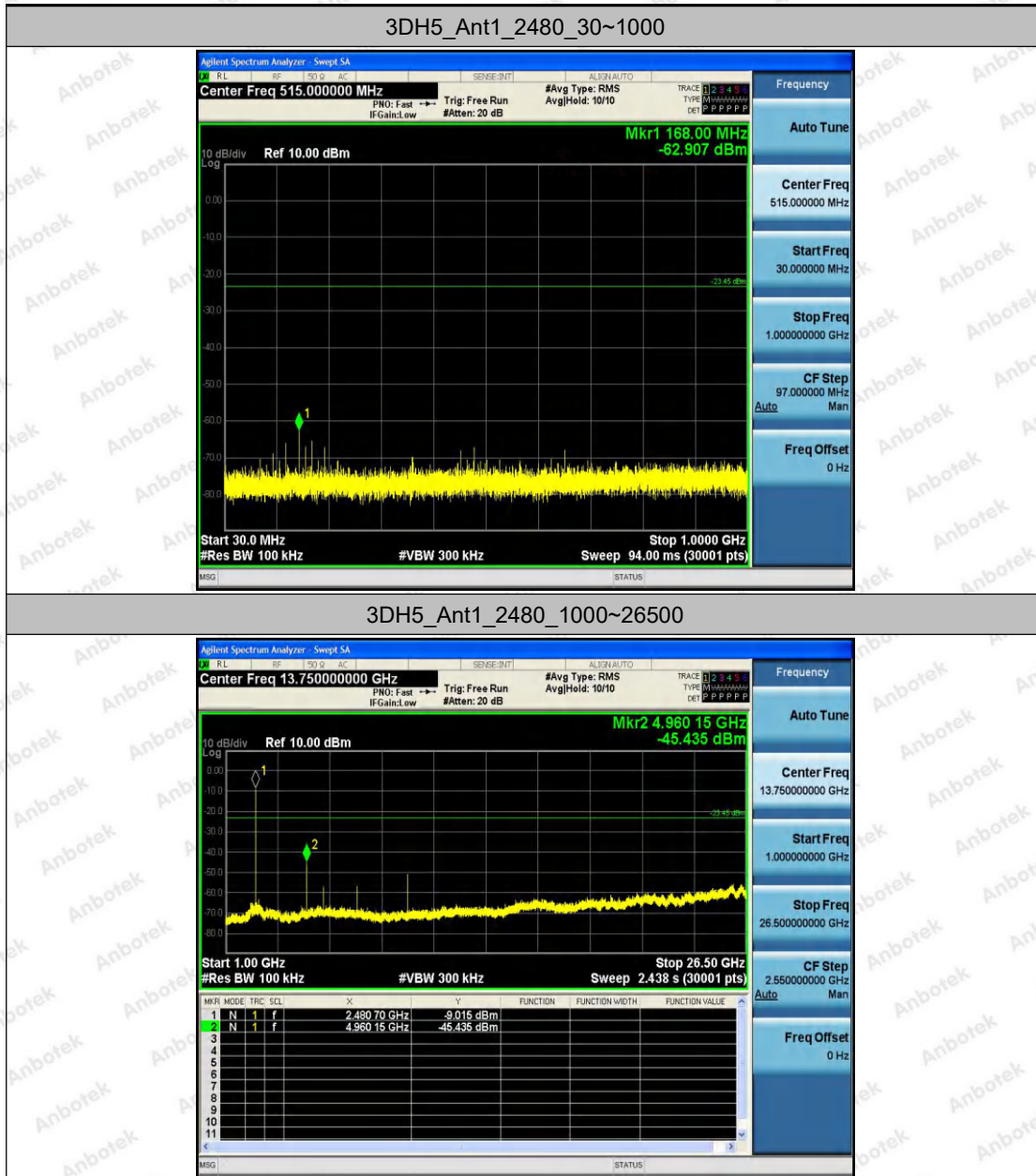


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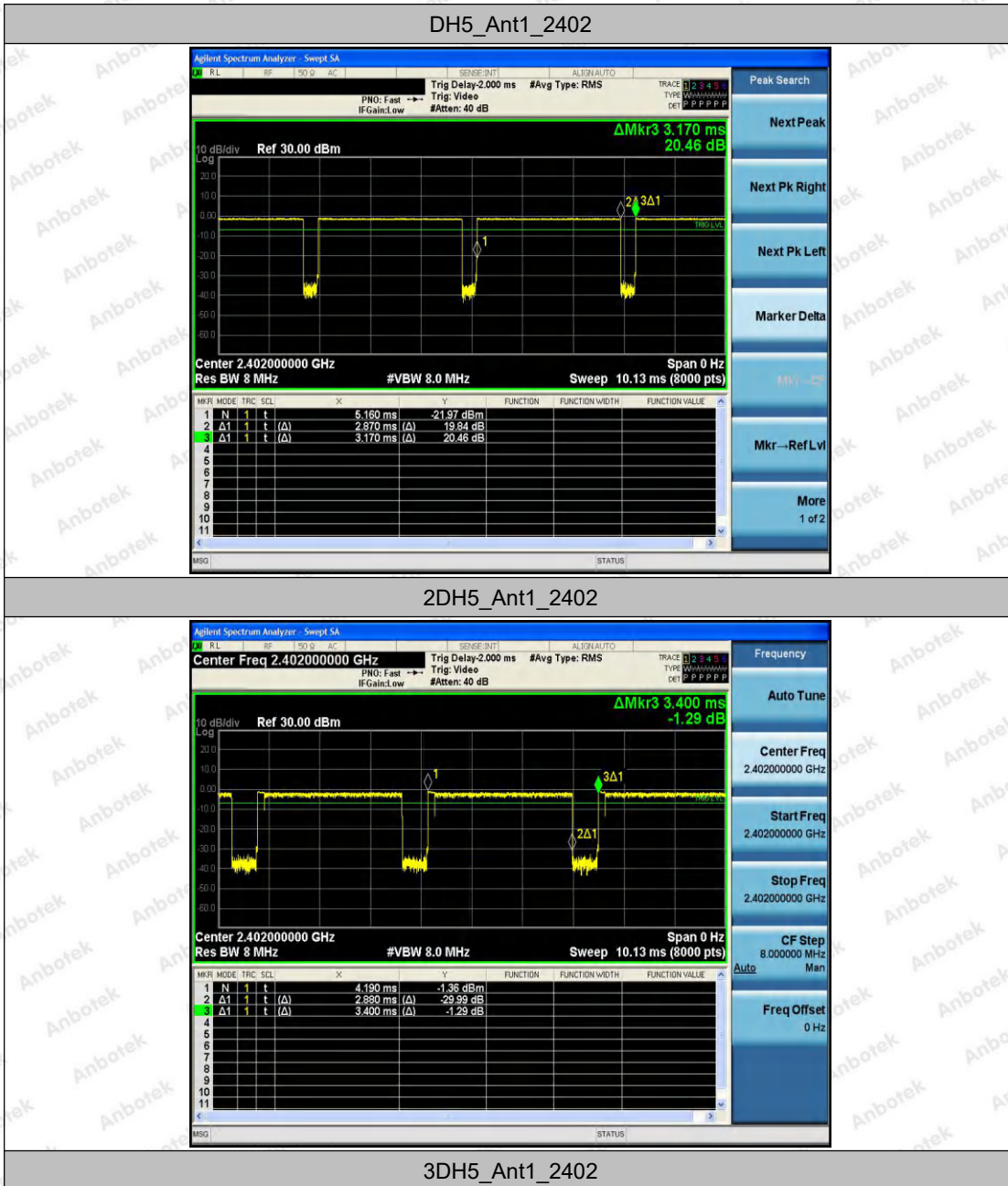
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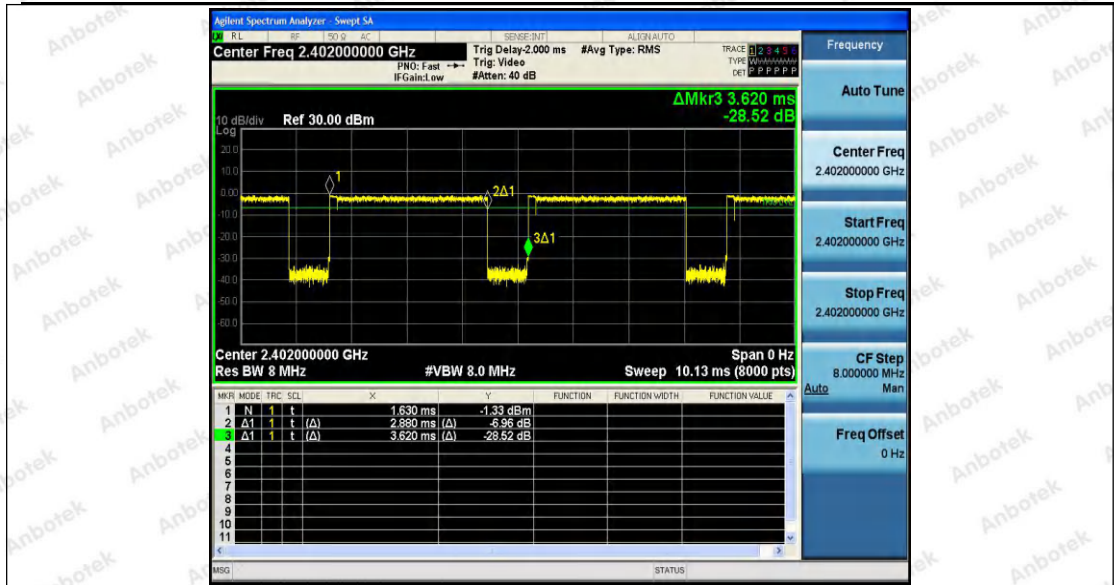
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.17	0.905 4	90.54	0.43	---	PASS
2DH5	Ant1	2402	2.88	3.40	0.847 1	84.71	0.72	---	PASS
3DH5	Ant1	2402	2.88	3.62	0.795 6	79.56	0.99	---	PASS

Test Graphs





---End---