

Appendix Test Data

Report No.:	18220WC20096501	Test Sample No.:	1-2-2
Start Test Date:	2022.5.5	Finish Test Date:	2022.5.9
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.6°C	Relative Humidity:	52.9 %
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	0.951	2401.538	2402.489	---	PASS
		2441	0.948	2440.541	2441.489	---	PASS
		2480	0.942	2479.538	2480.480	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.317	2440.340	2441.657	---	PASS
		2480	1.260	2479.370	2480.630	---	PASS
3DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.281	2440.349	2441.630	---	PASS
		2480	1.299	2479.349	2480.648	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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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 B: Occupied Channel Bandwidth

Test Result

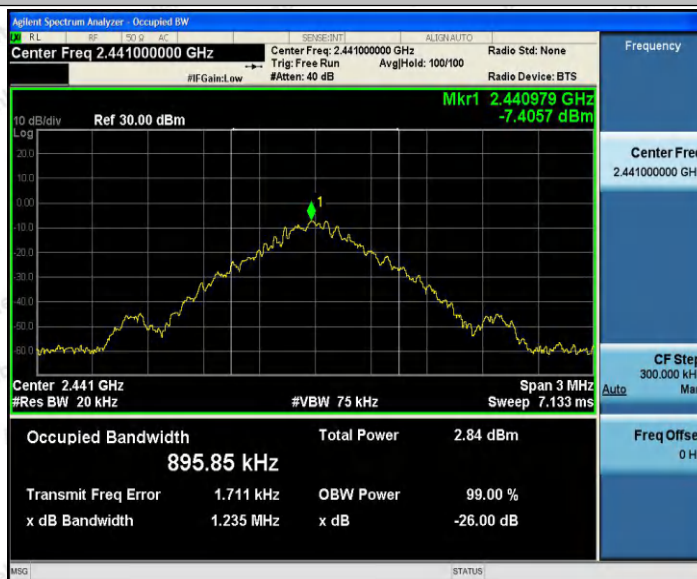
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89122	2401.55 6	2402.448	---	PASS
		2441	0.89585	2440.55 4	2441.450	---	PASS
		2480	0.89051	2479.55 8	2480.448	---	PASS
2DH5	Ant1	2402	1.1945	2401.40 4	2402.599	---	PASS
		2441	1.1960	2440.40 3	2441.599	---	PASS
		2480	1.1888	2479.40 6	2480.595	---	PASS
3DH5	Ant1	2402	1.2102	2401.38 6	2402.597	---	PASS
		2441	1.2090	2440.38 9	2441.598	---	PASS
		2480	1.2044	2479.39 0	2480.595	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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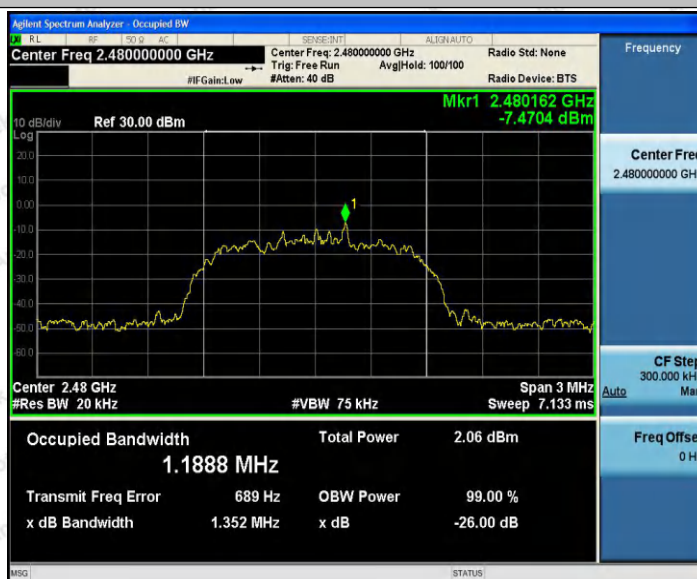
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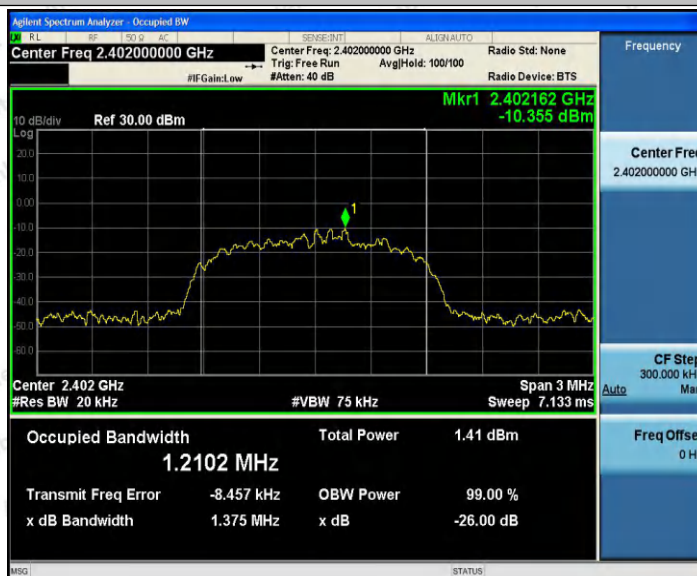
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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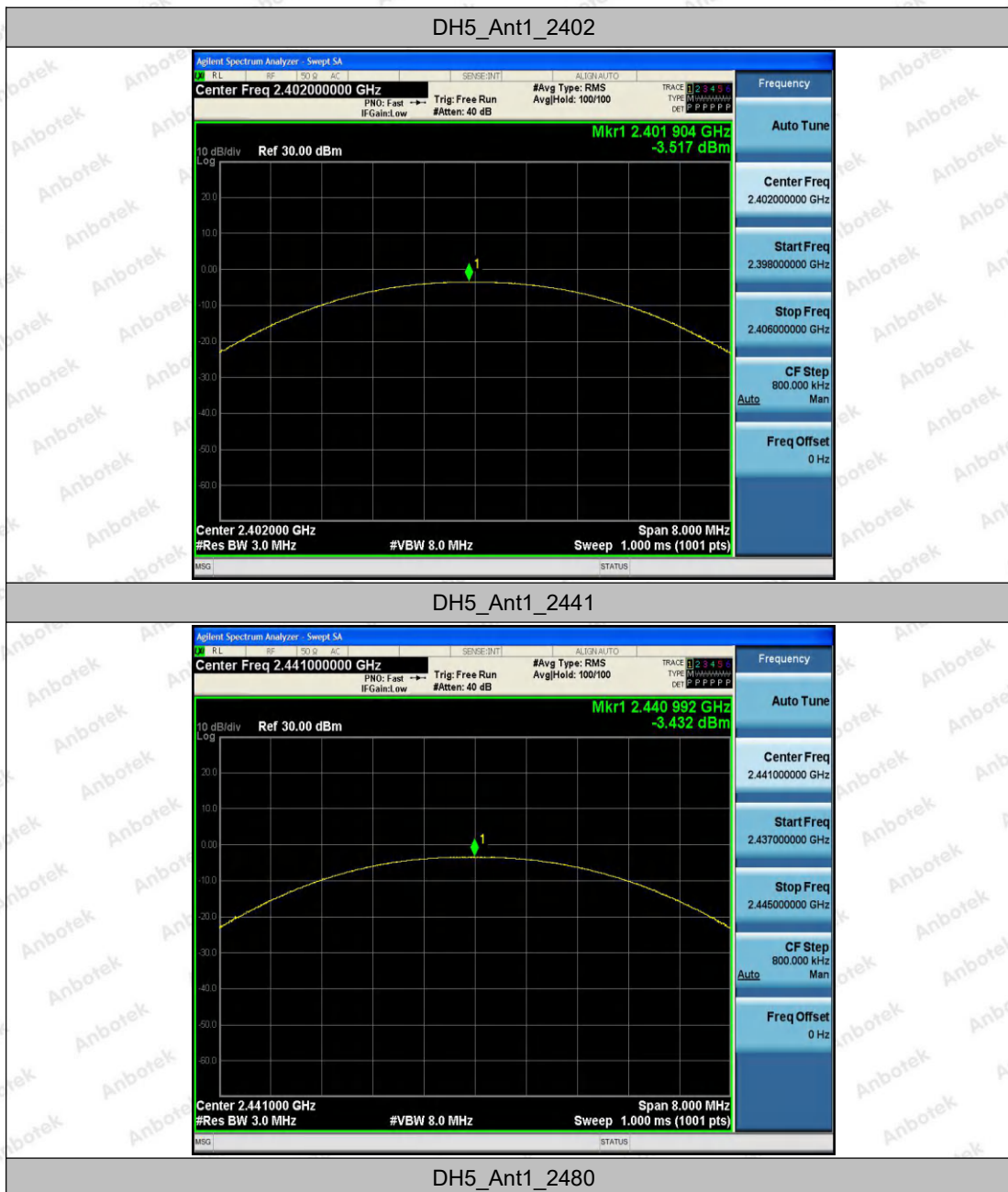
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.52	≤20.97	PASS
		2441	-3.43	≤20.97	PASS
		2480	-2.71	≤20.97	PASS
2DH5	Ant1	2402	-3.86	≤20.97	PASS
		2441	-3.83	≤20.97	PASS
		2480	-3.46	≤20.97	PASS
3DH5	Ant1	2402	-3.71	≤20.97	PASS
		2441	-3.68	≤20.97	PASS
		2480	-3.28	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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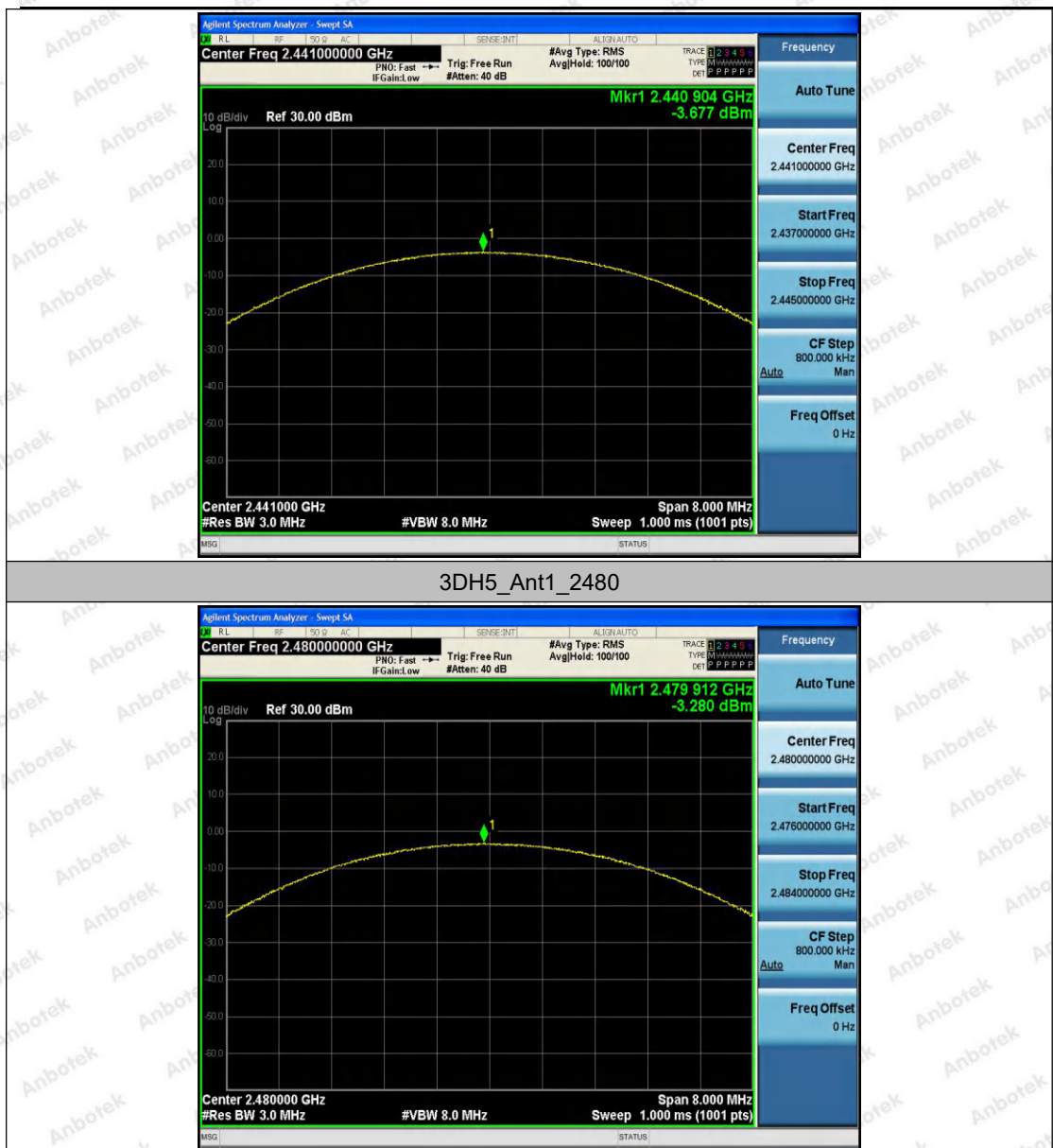
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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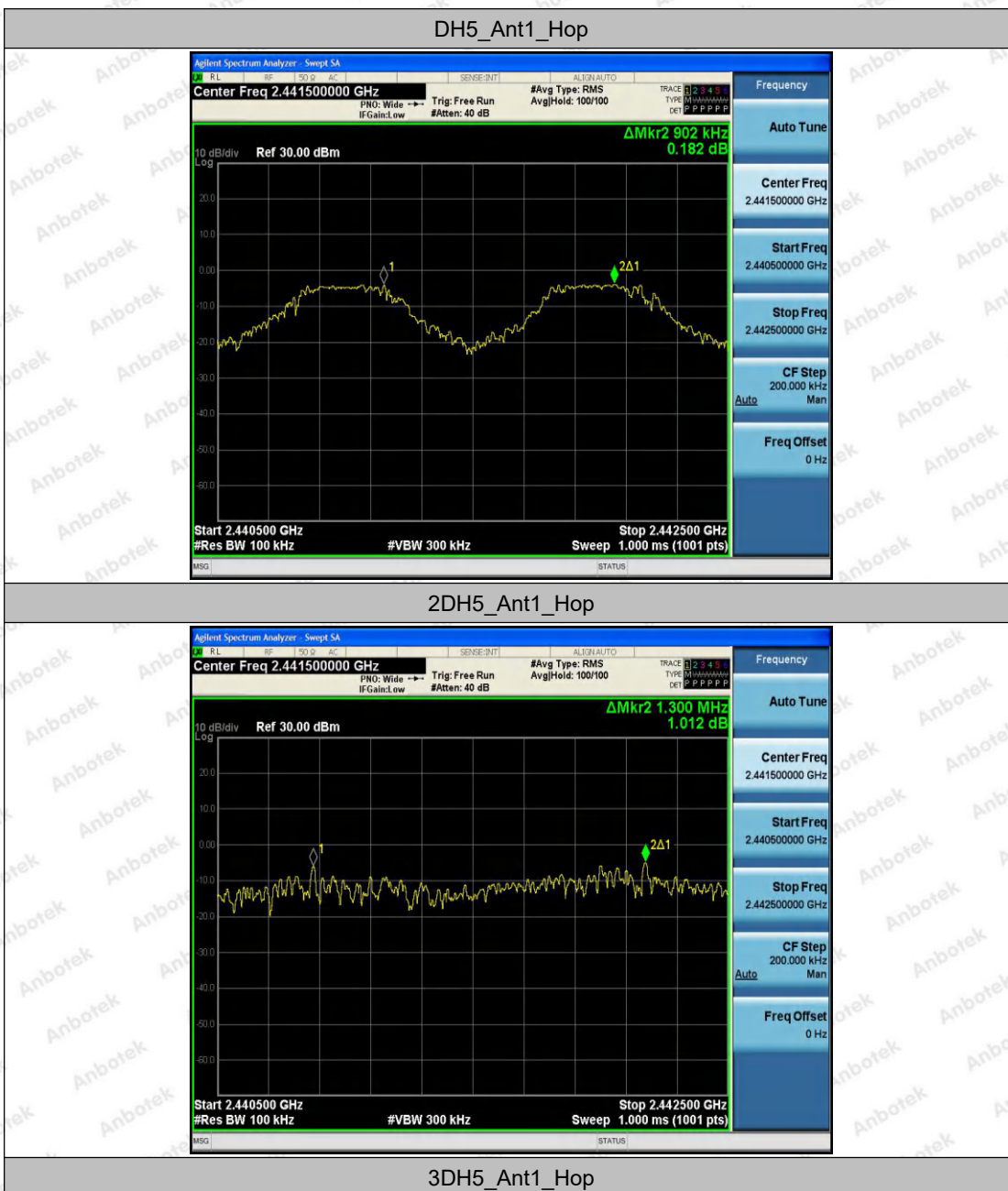
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.902	≥ 0.634	PASS
2DH5	Ant1	Hop	1.3	≥ 0.882	PASS
3DH5	Ant1	Hop	1.188	≥ 0.876	PASS

Test Graphs



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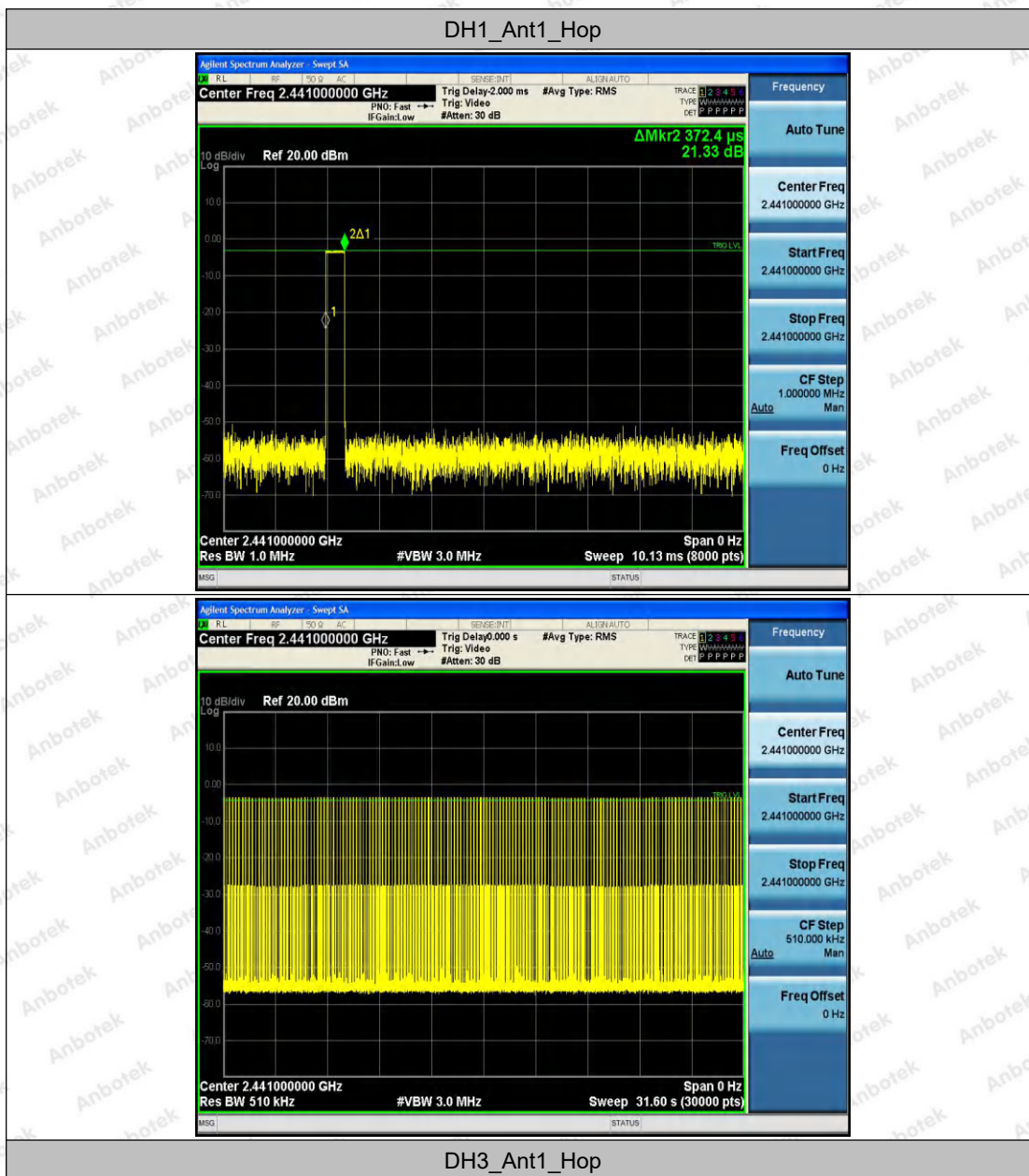
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Appendix E: Time of occupancy

Test Result

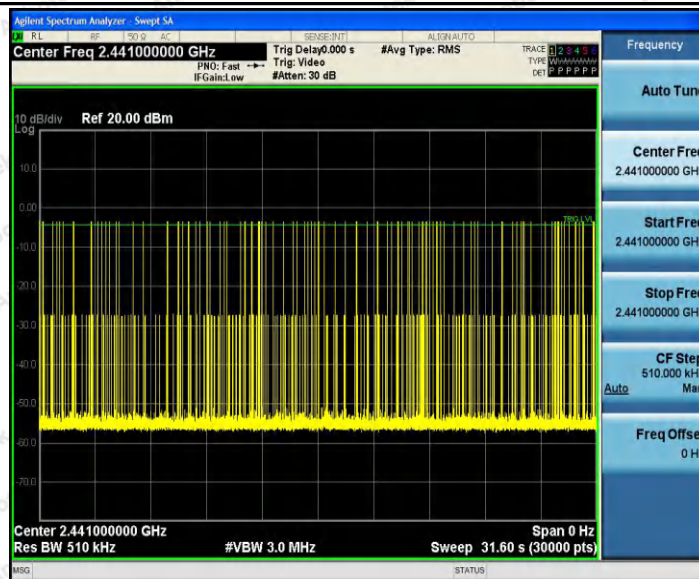
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	312	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	111	0.32	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	113	0.326	≤0.4	PASS

Test Graphs

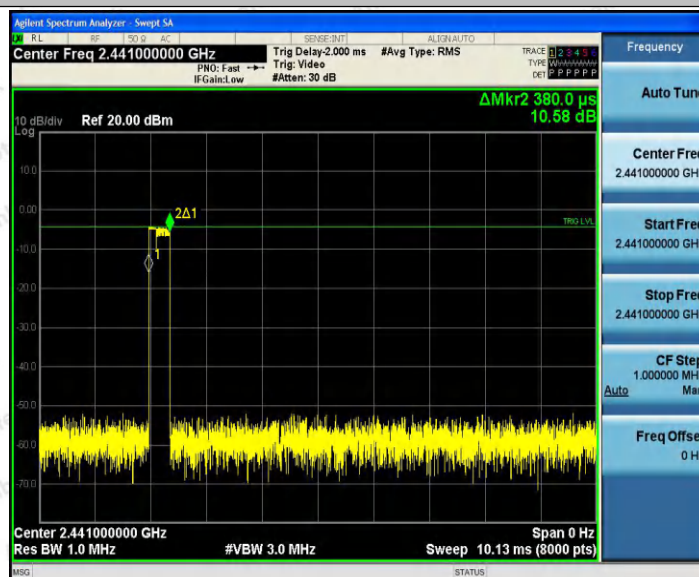




DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

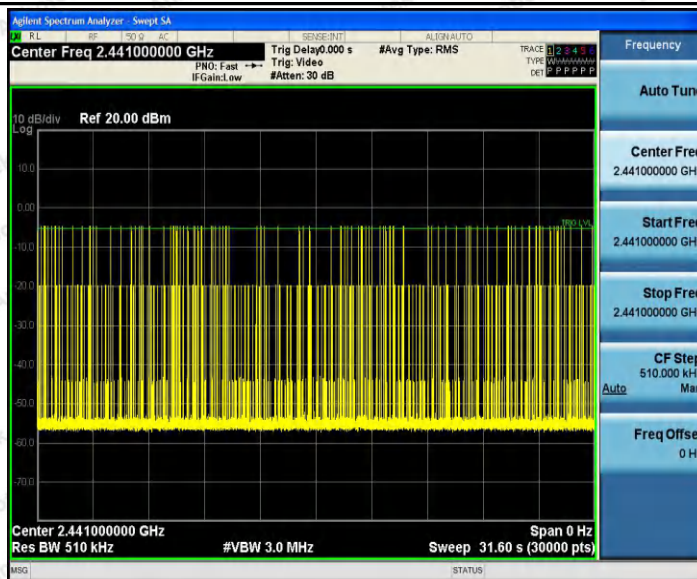
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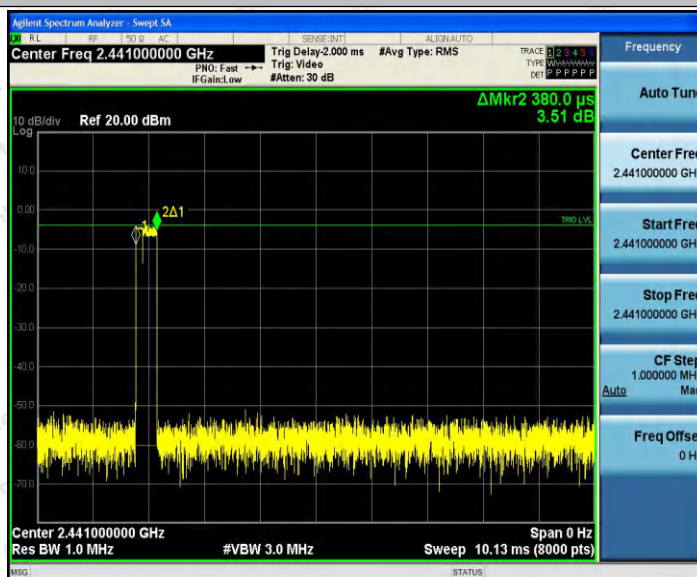
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3DH1_Ant1_Hop



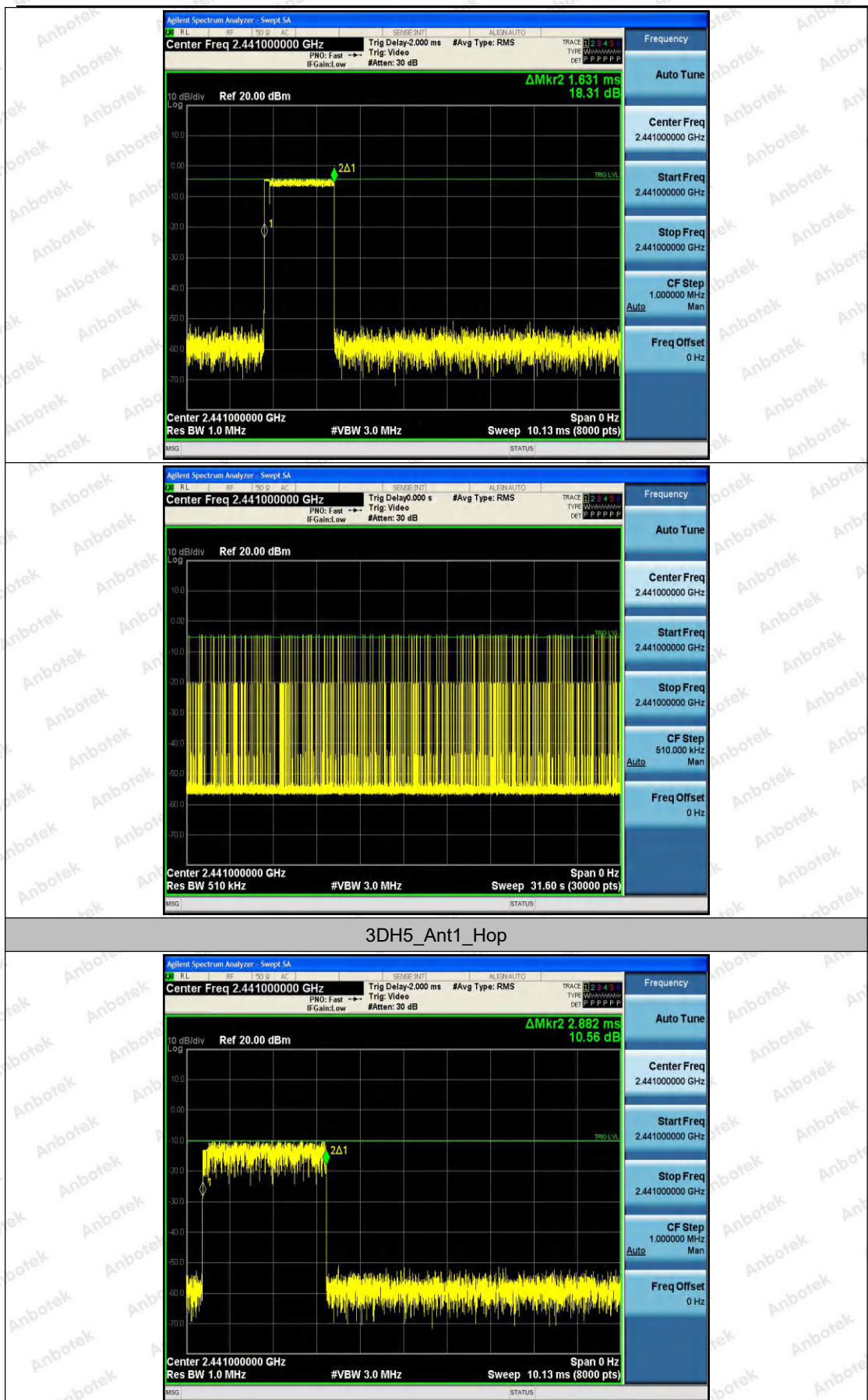
3DH3_Ant1_Hop

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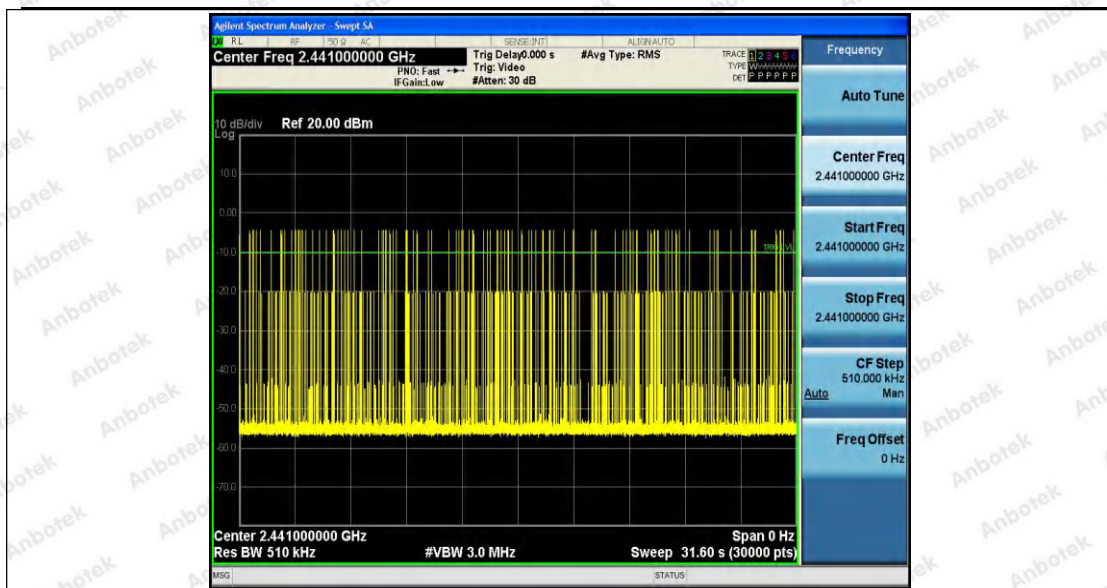
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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3DH5_Ant1_Hop



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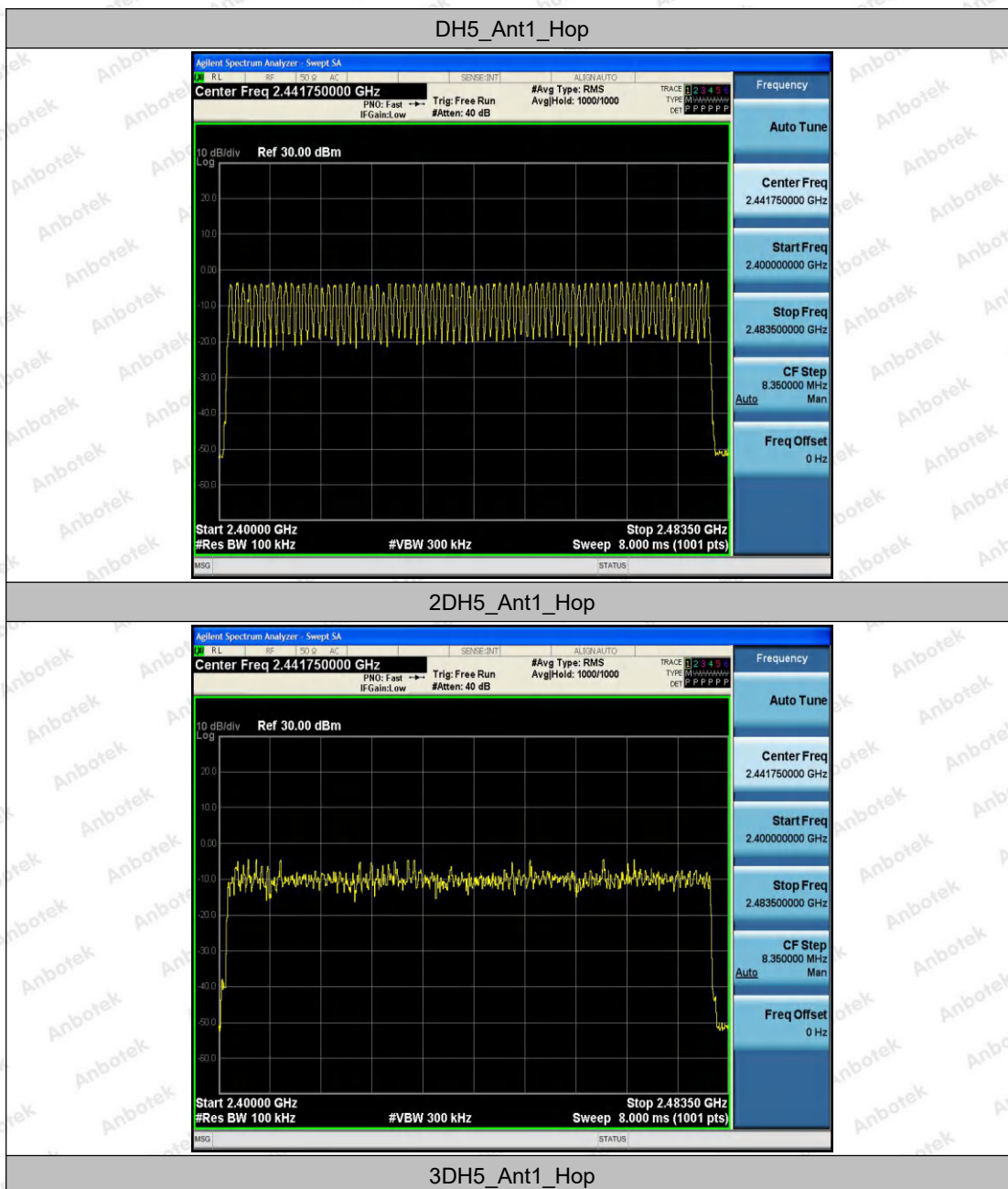
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Appendix F: Number of hopping channels

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

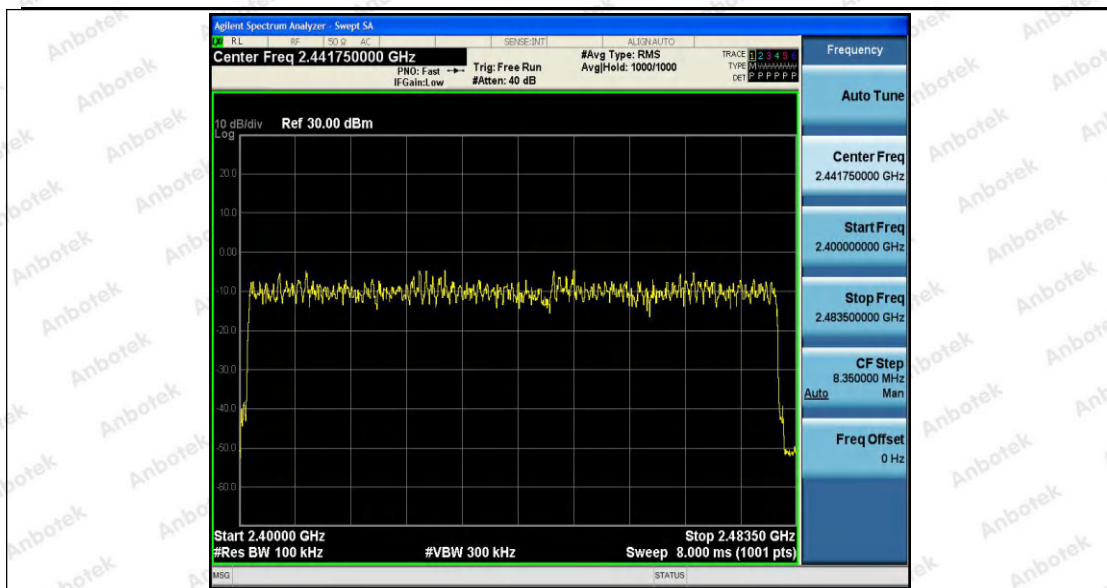


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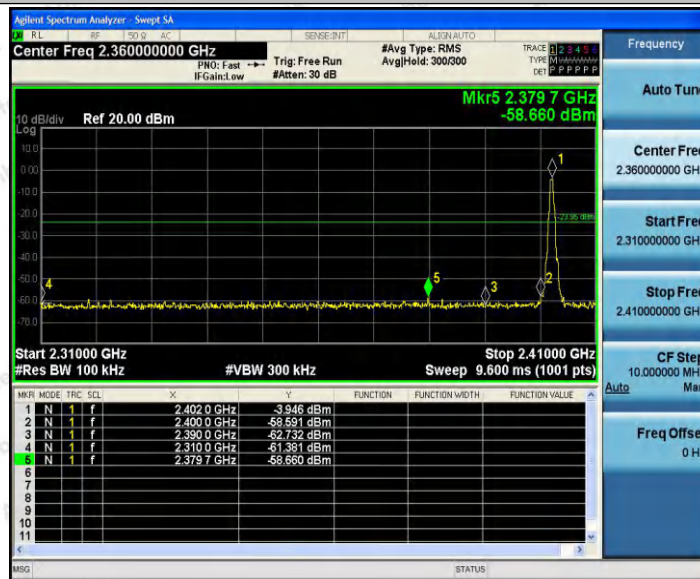
Appendix G: Band edge measurements

Test Result

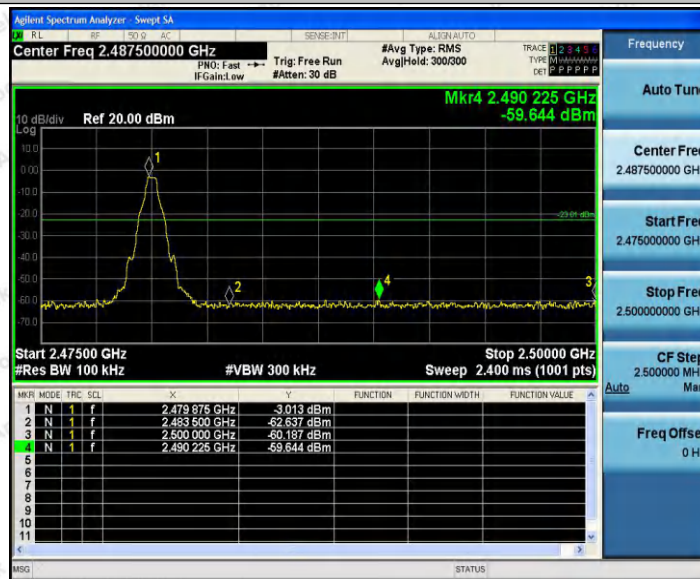
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.95	-58.66	≤-23.95	PASS
		High	2480	-3.01	-59.64	≤-23.01	PASS
		Low	Hop	-3.71	-60.21	≤-23.71	PASS
		High	Hop	-3.19	-62.18	≤-23.19	PASS
2DH5	Ant1	Low	2402	-4.93	-58.3	≤-24.93	PASS
		High	2480	-5.69	-59.74	≤-25.69	PASS
		Low	Hop	-4.99	-59.02	≤-24.99	PASS
		High	Hop	-4.40	-62.3	≤-24.4	PASS
3DH5	Ant1	Low	2402	-4.56	-58.47	≤-24.56	PASS
		High	2480	-4.52	-60.17	≤-24.52	PASS
		Low	Hop	-6.50	-59.92	≤-26.5	PASS
		High	Hop	-7.49	-61.91	≤-27.49	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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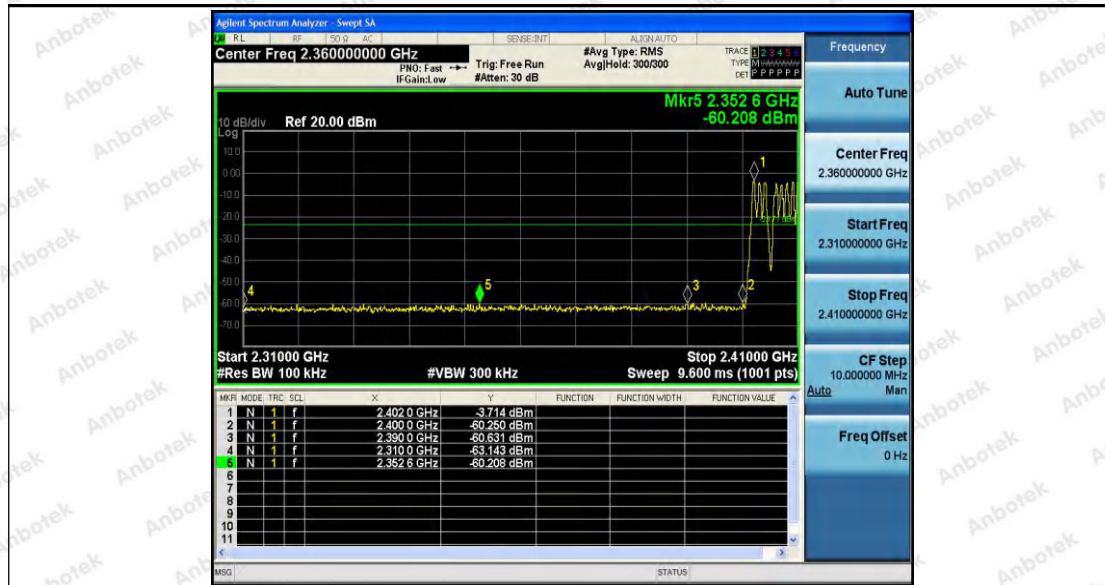
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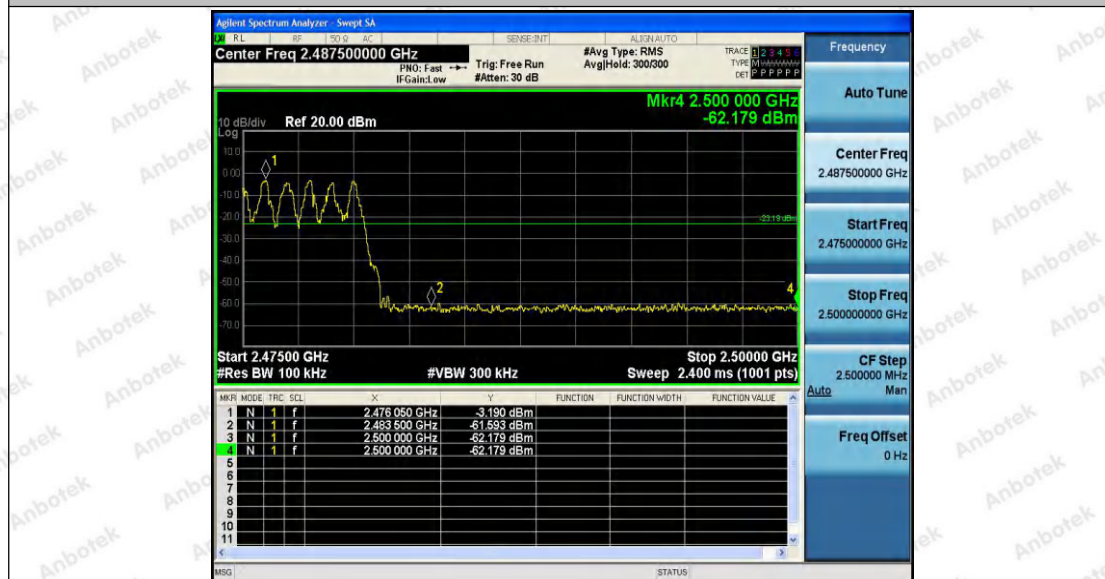
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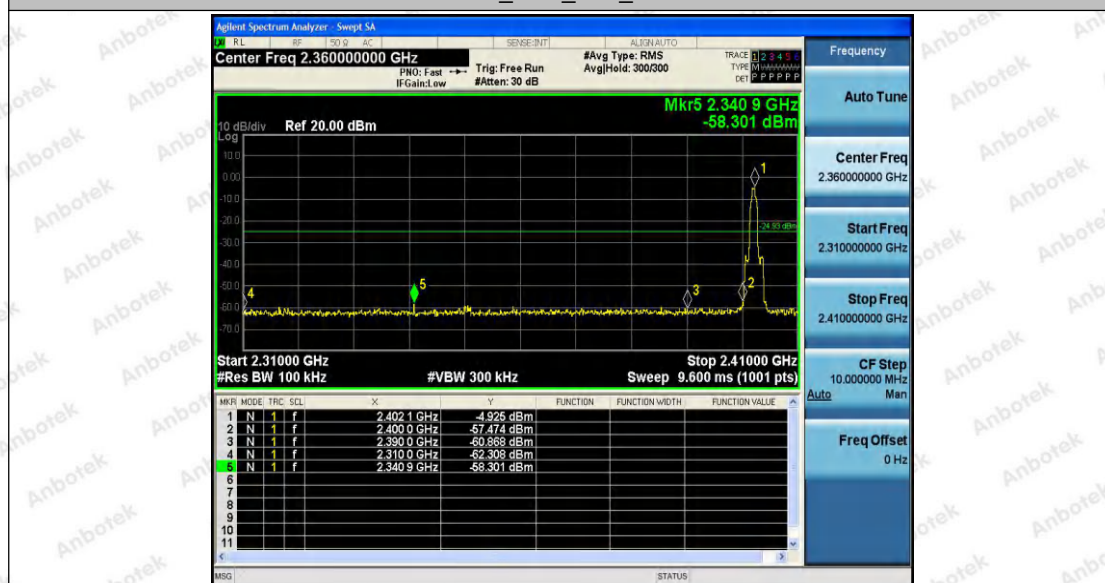
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



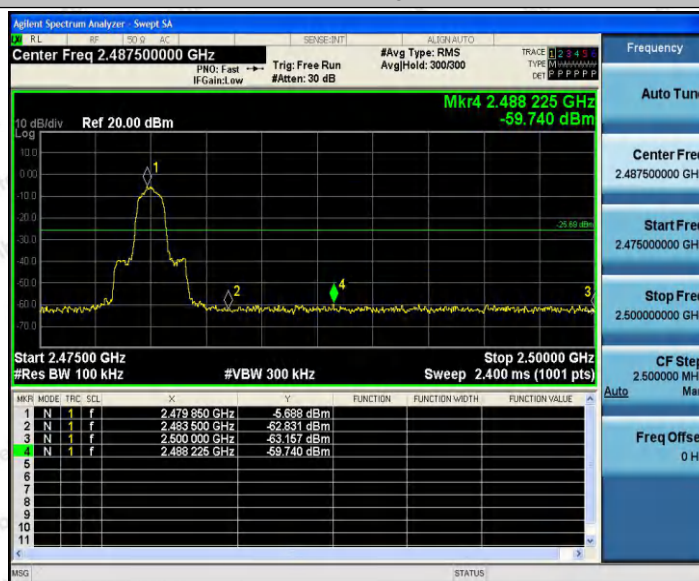
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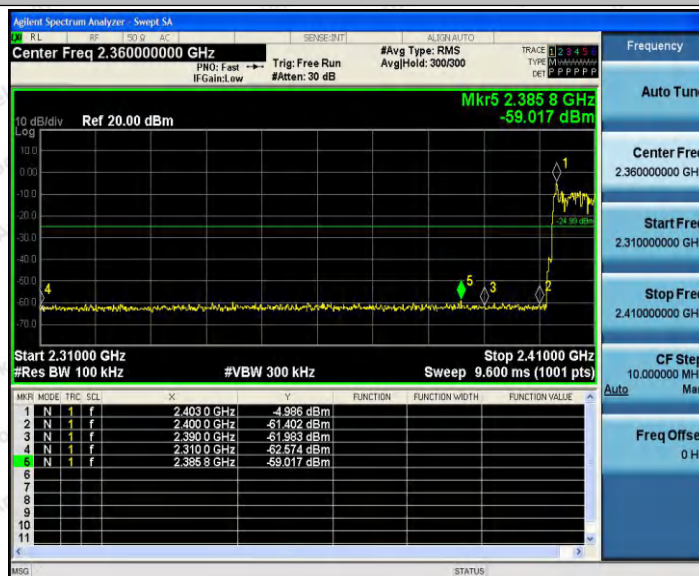
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



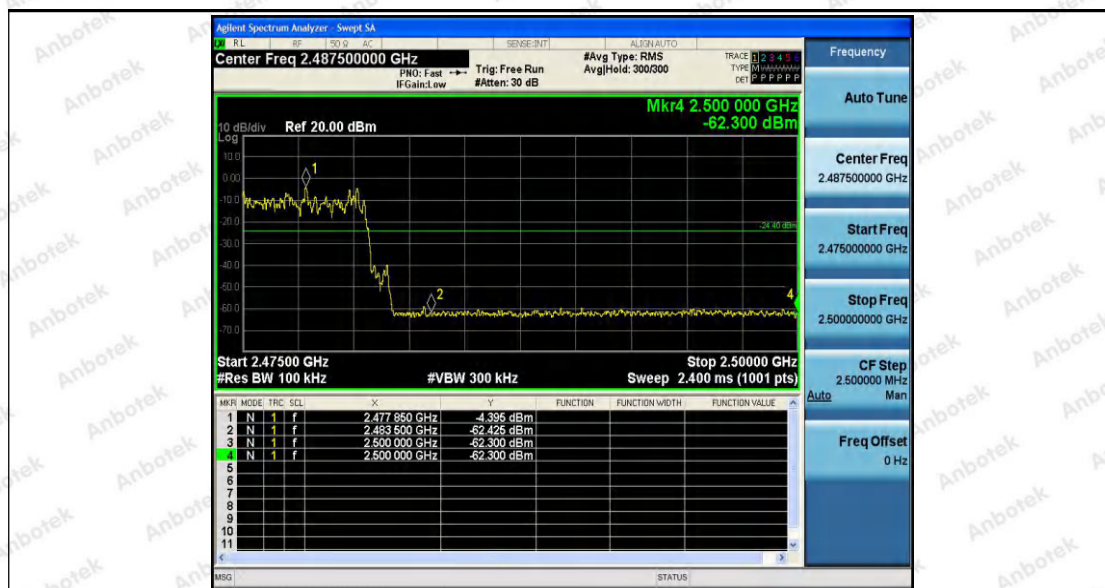
2DH5_Ant1_High_Hop

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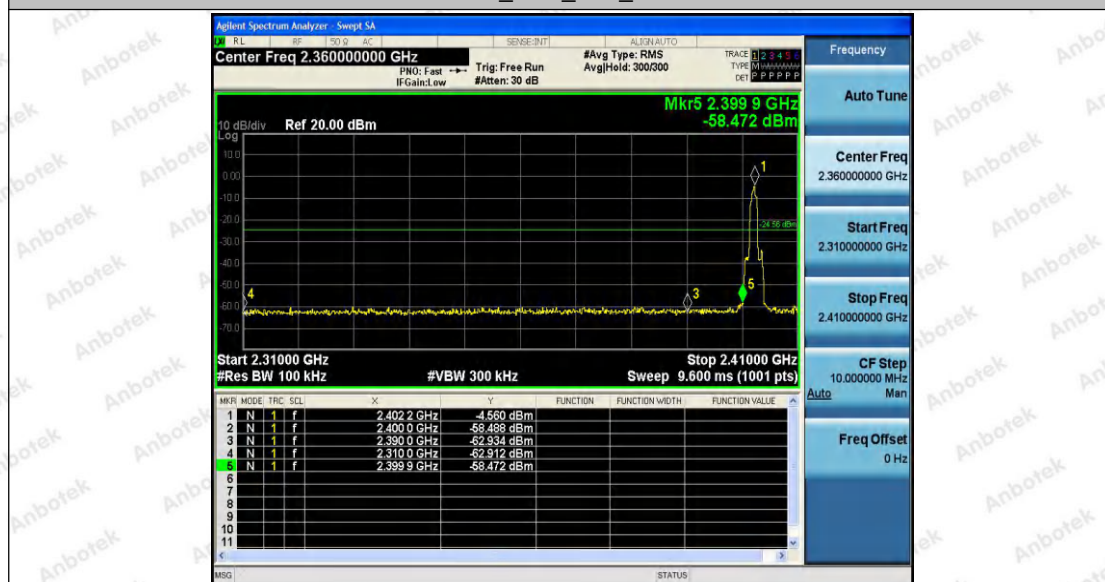
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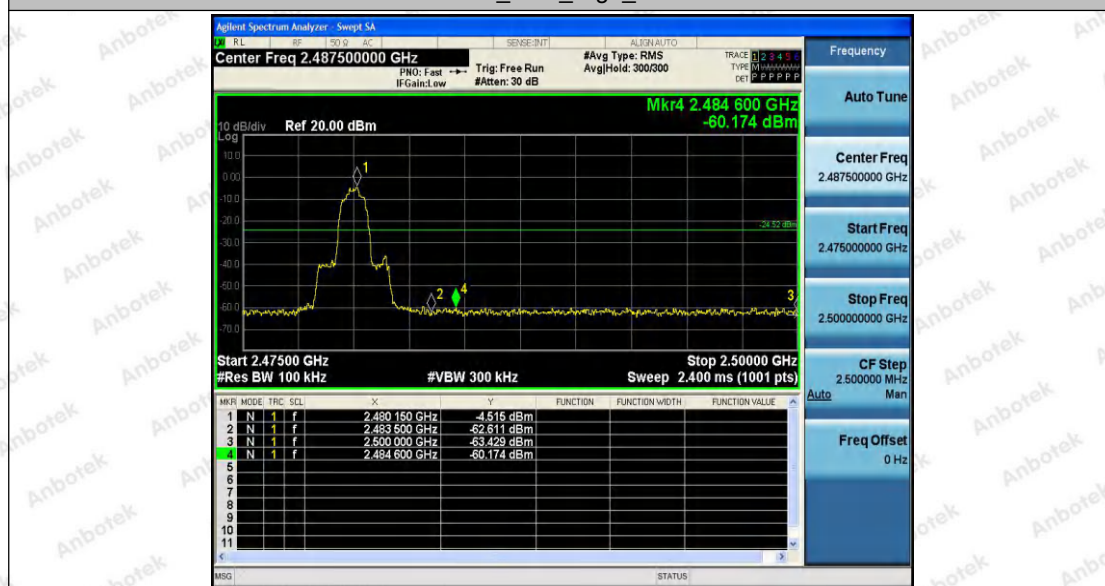
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

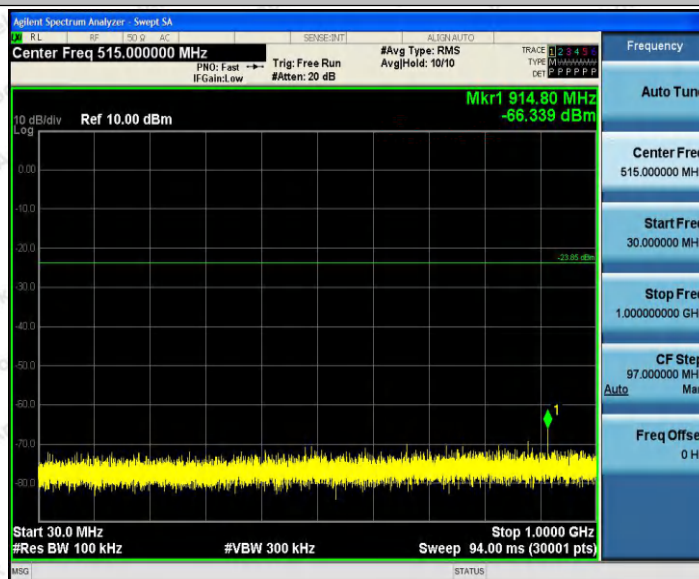
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.85	-3.85	---	PASS
			30~1000	-3.85	-66.34	≤-23.85	PASS
			1000~26500	-3.85	-55.31	≤-23.85	PASS
		2441	Reference	-4.28	-4.28	---	PASS
			30~1000	-4.28	-69.85	≤-24.28	PASS
			1000~26500	-4.28	-55.82	≤-24.28	PASS
		2480	Reference	-3.37	-3.37	---	PASS
			30~1000	-3.37	-70.08	≤-23.37	PASS
			1000~26500	-3.37	-55.69	≤-23.37	PASS
2DH5	Ant1	2402	Reference	-5.33	-5.33	---	PASS
			30~1000	-5.33	-70.53	≤-25.33	PASS
			1000~26500	-5.33	-54.86	≤-25.33	PASS
		2441	Reference	-4.81	-4.81	---	PASS
			30~1000	-4.81	-70.16	≤-24.81	PASS
			1000~26500	-4.81	-55.95	≤-24.81	PASS
		2480	Reference	-4.53	-4.53	---	PASS
			30~1000	-4.53	-70.51	≤-24.53	PASS
			1000~26500	-4.53	-54.71	≤-24.53	PASS
3DH5	Ant1	2402	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-70.01	≤-25.47	PASS
			1000~26500	-5.47	-55.05	≤-25.47	PASS
		2441	Reference	-4.86	-4.86	---	PASS
			30~1000	-4.86	-70.39	≤-24.86	PASS
			1000~26500	-4.86	-55.67	≤-24.86	PASS
		2480	Reference	-4.22	-4.22	---	PASS
			30~1000	-4.22	-70.27	≤-24.22	PASS
			1000~26500	-4.22	-55.15	≤-24.22	PASS

Test Graphs

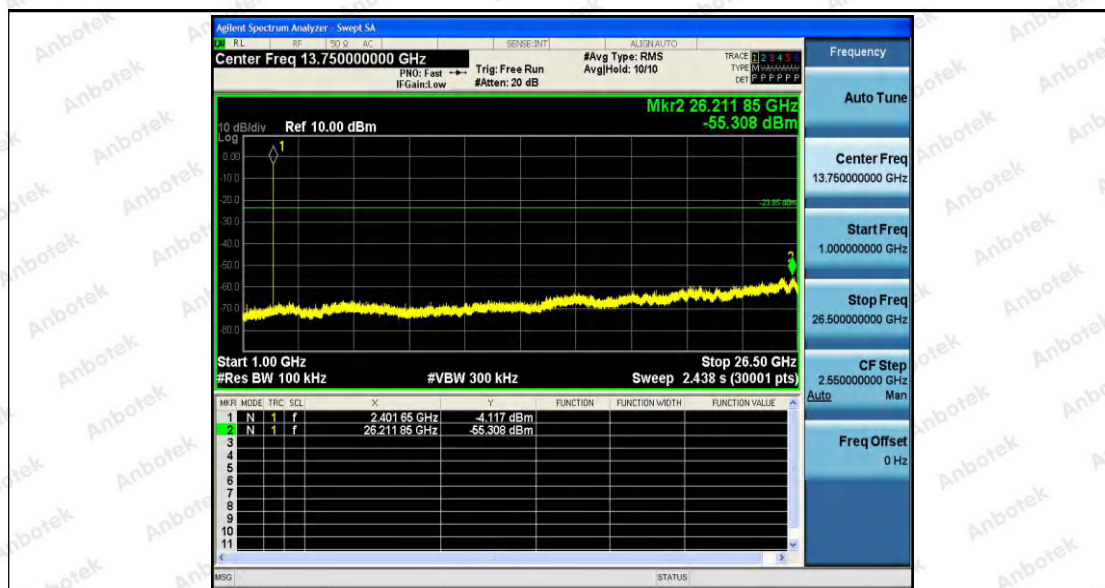
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



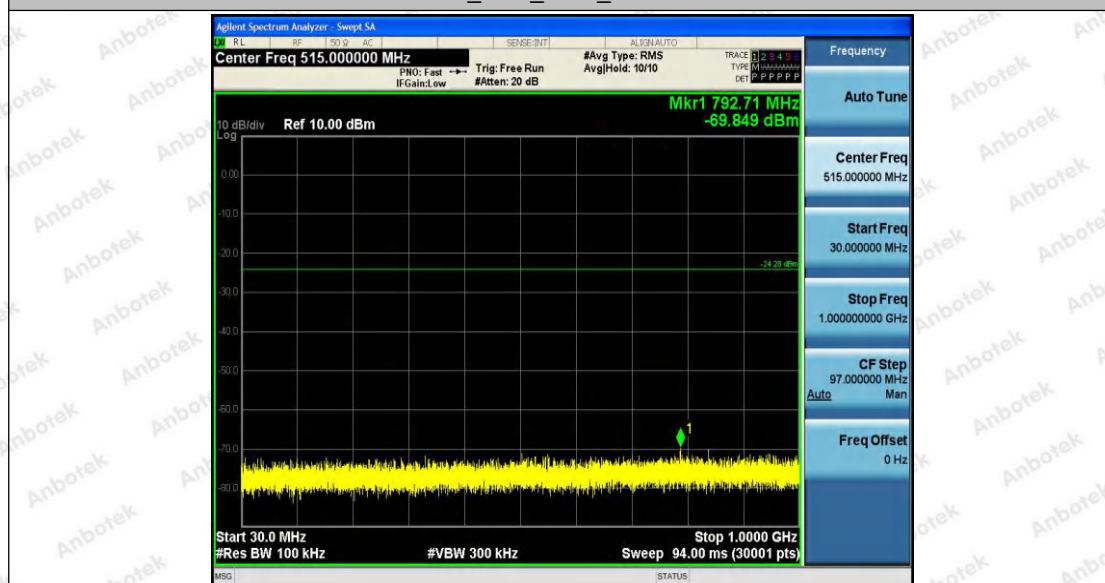
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



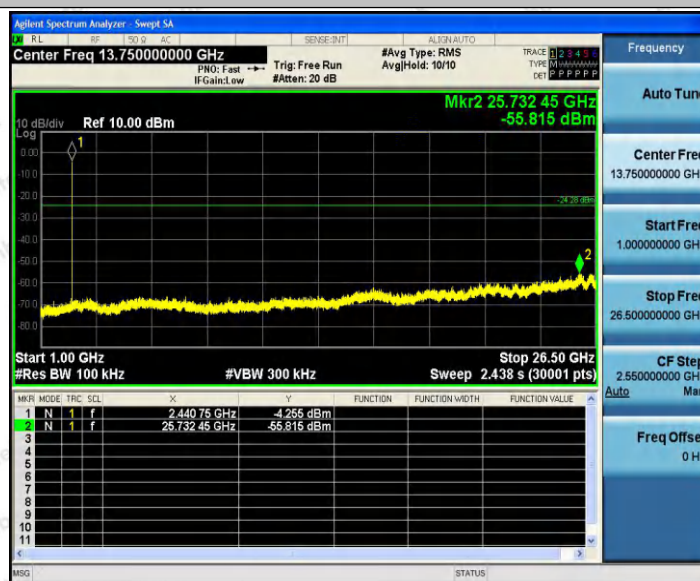
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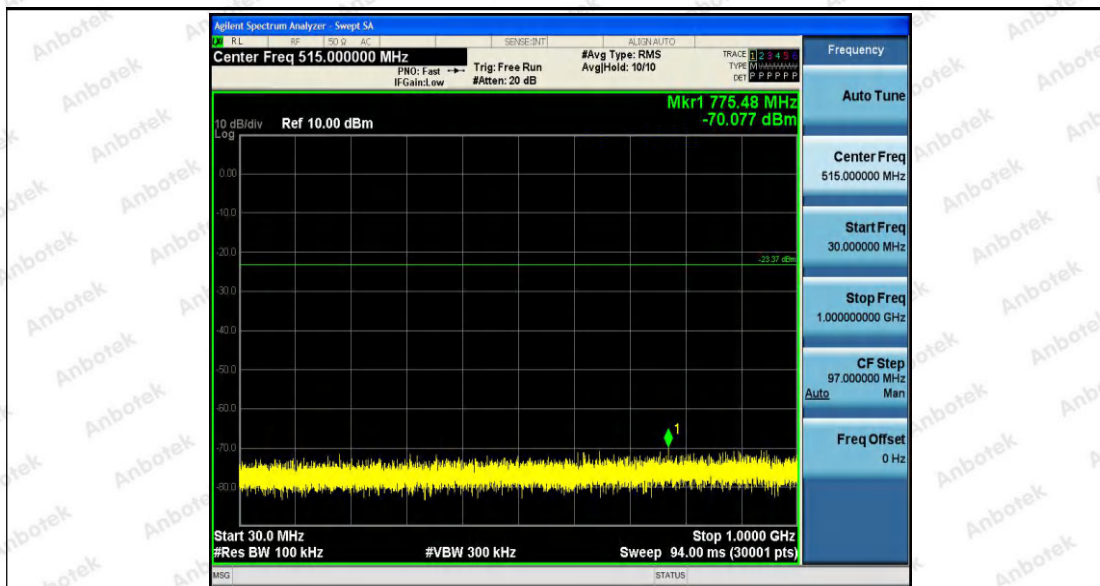
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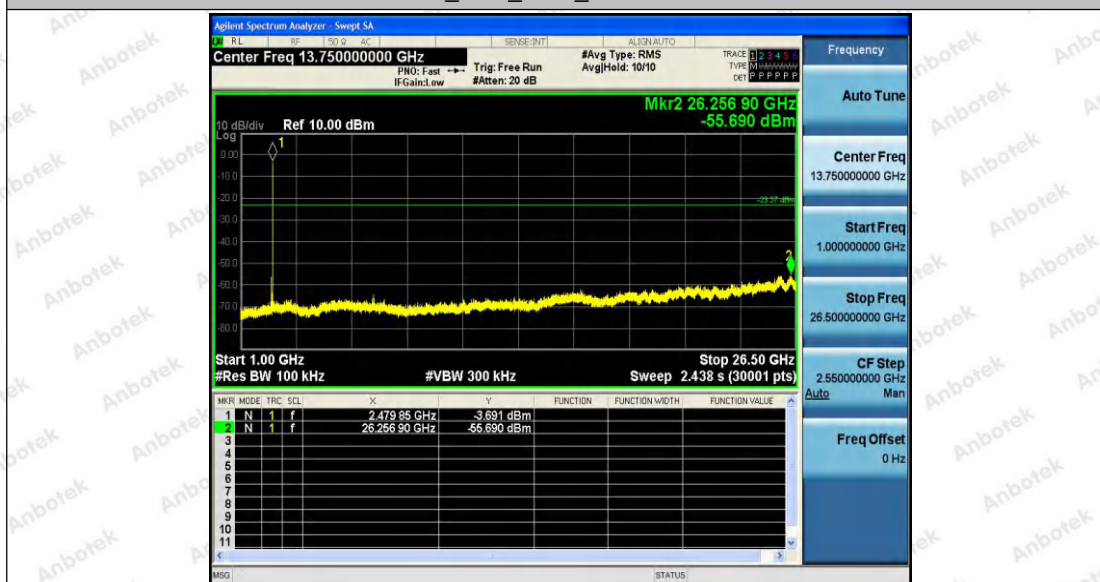
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

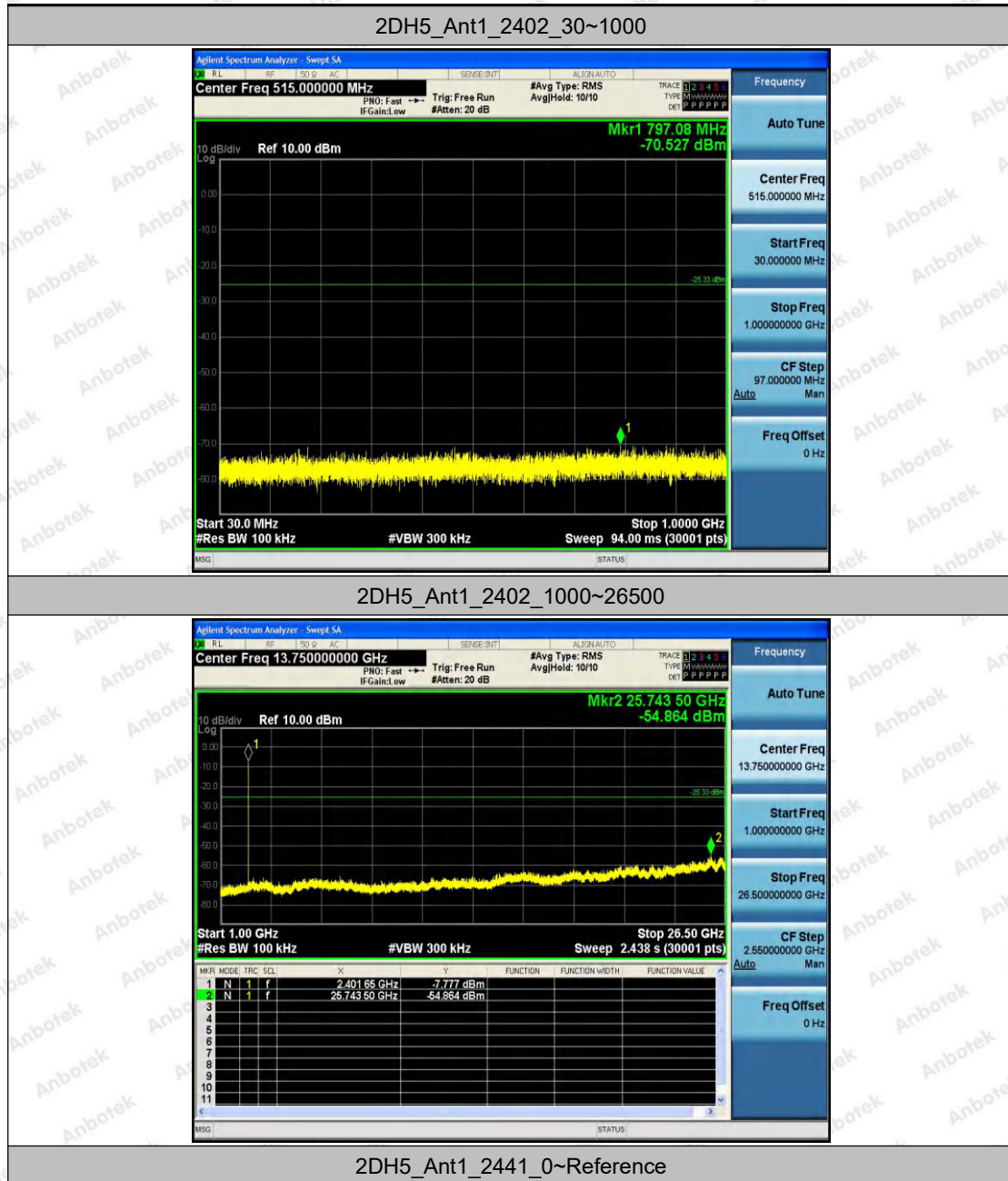


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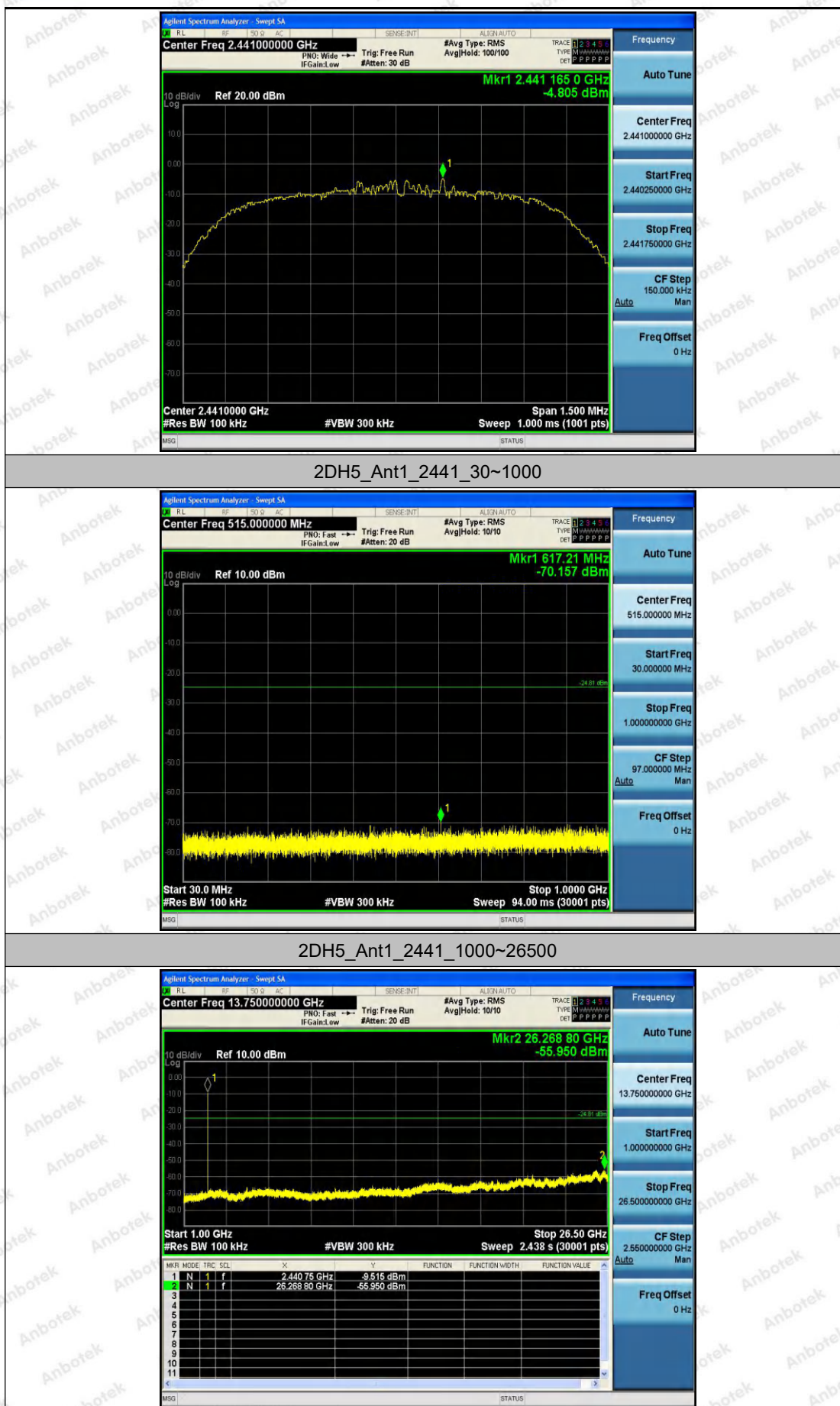
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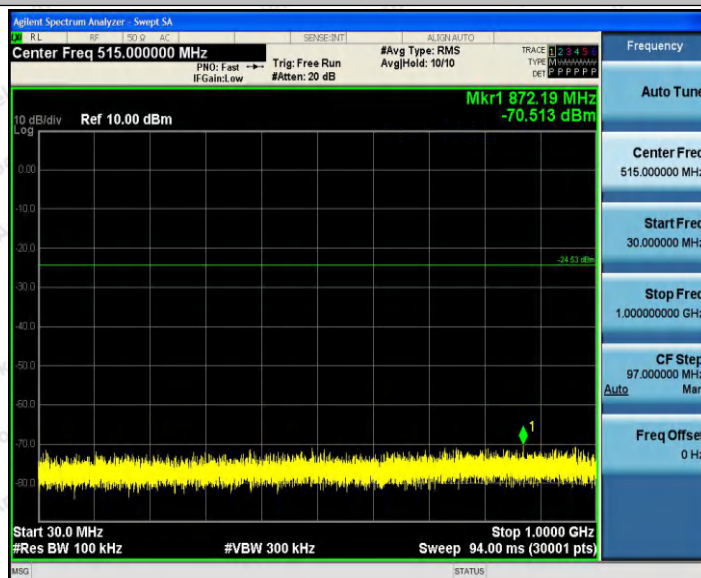
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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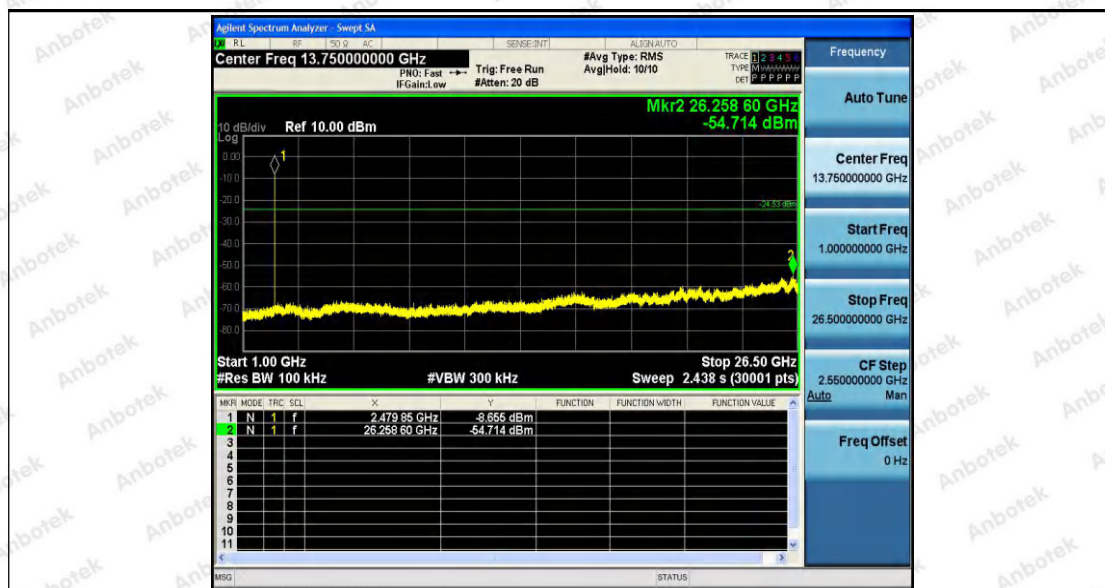
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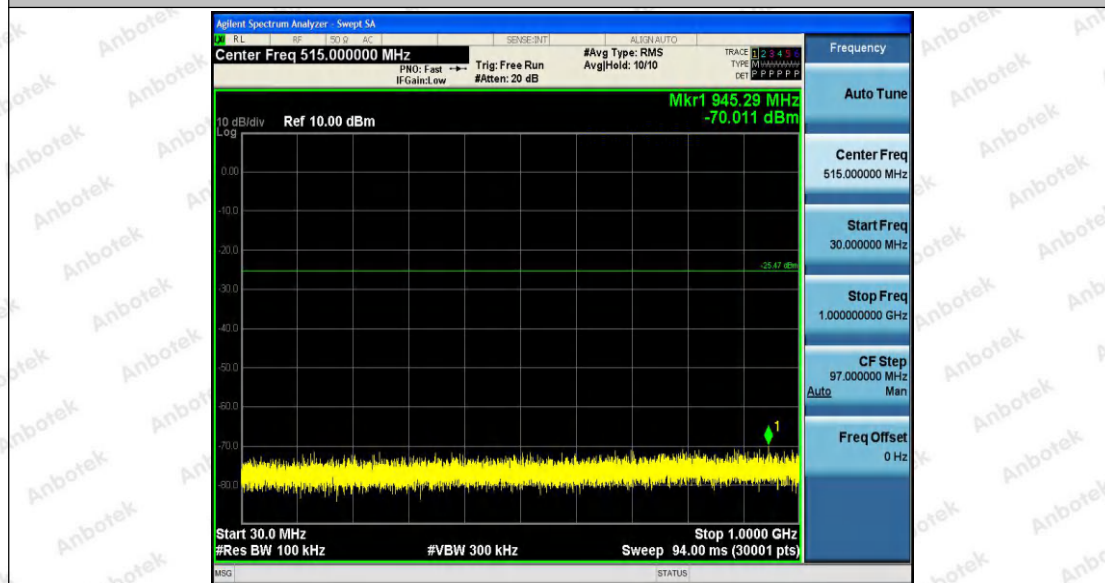
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



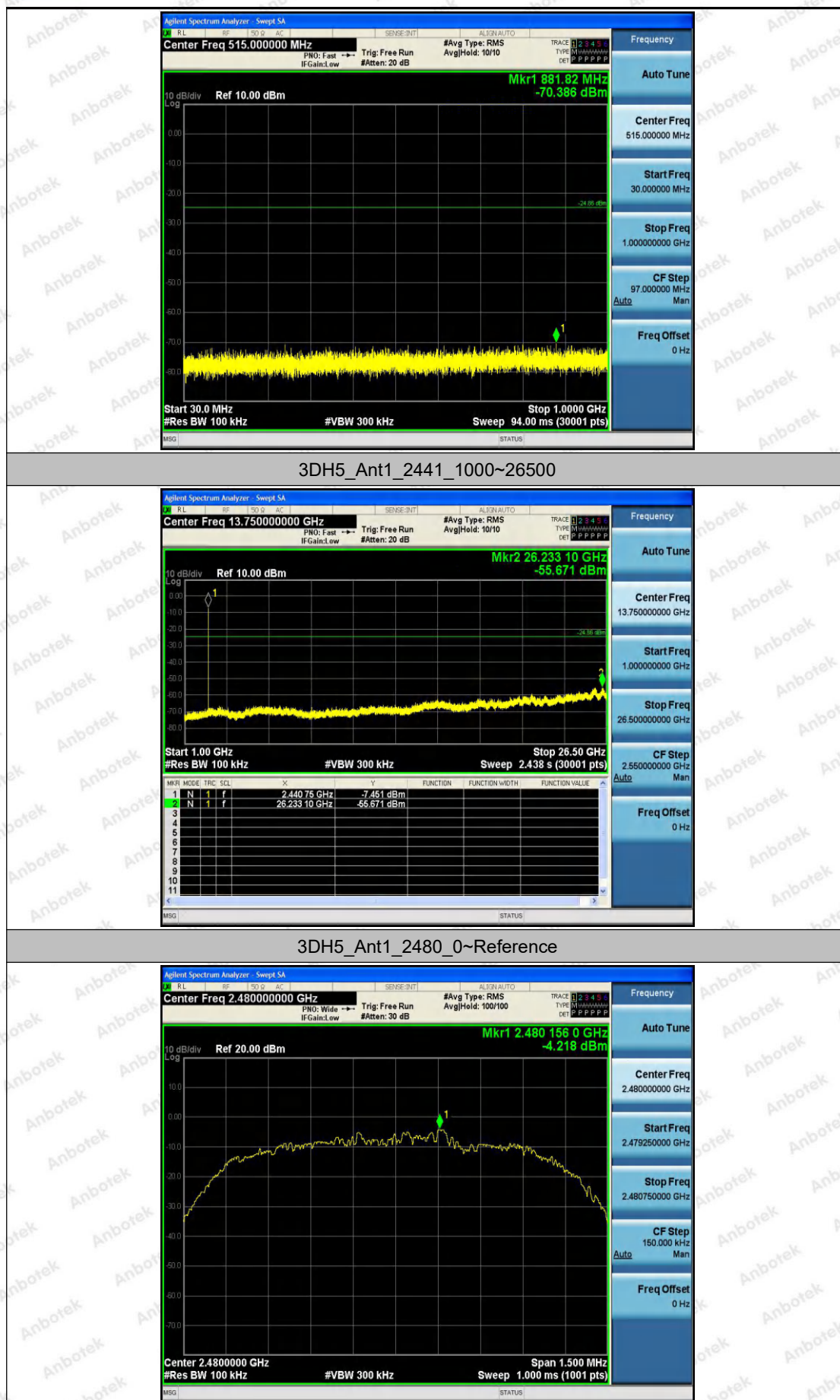
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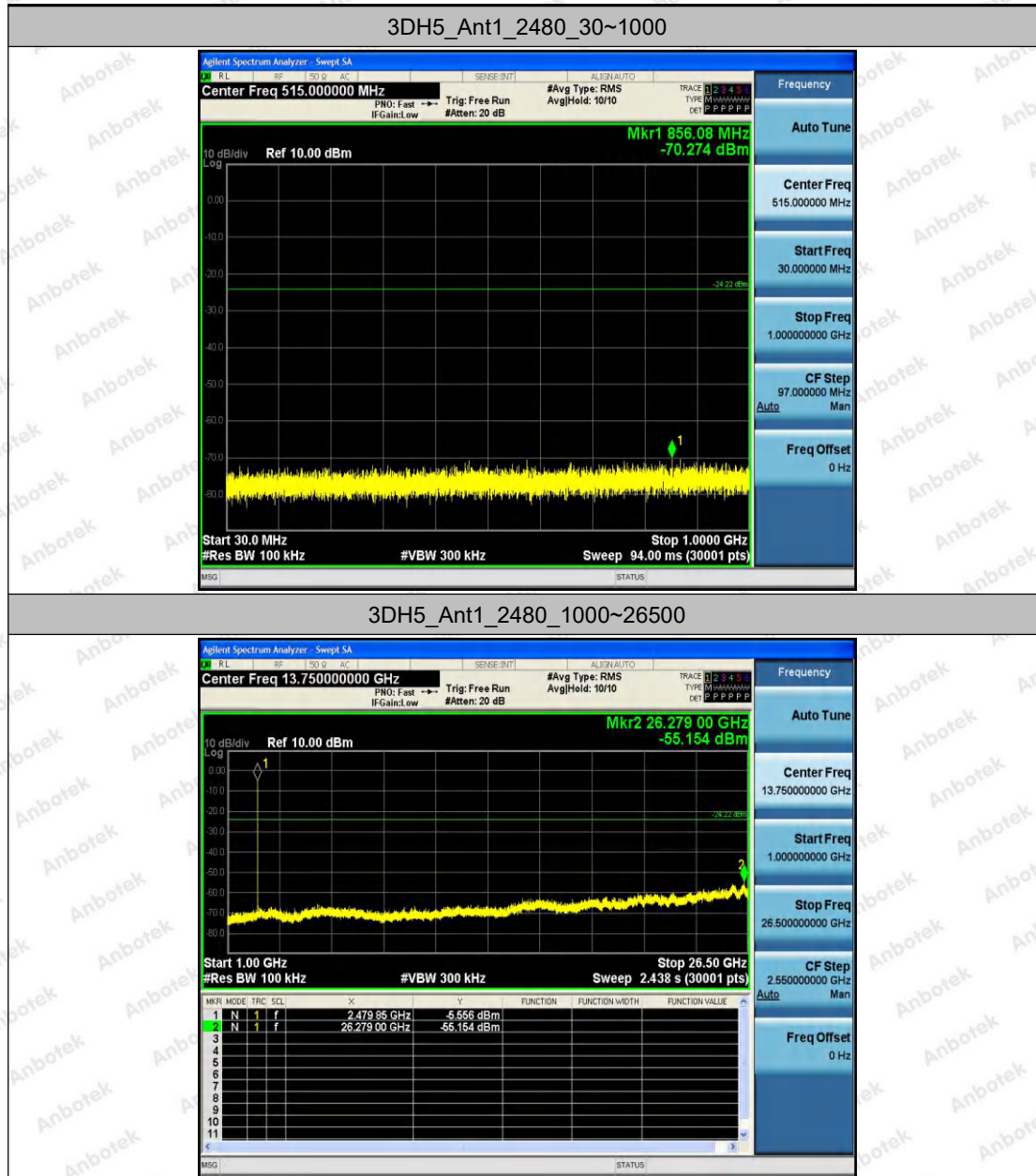


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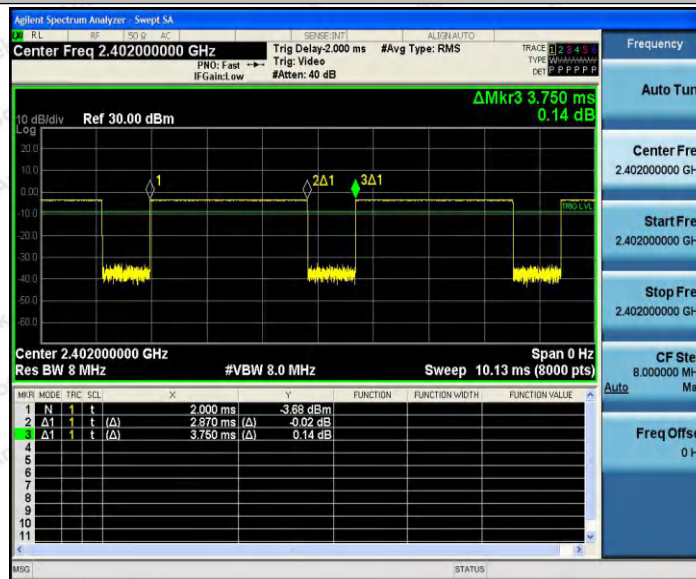
Appendix I: Duty Cycle

Test Result

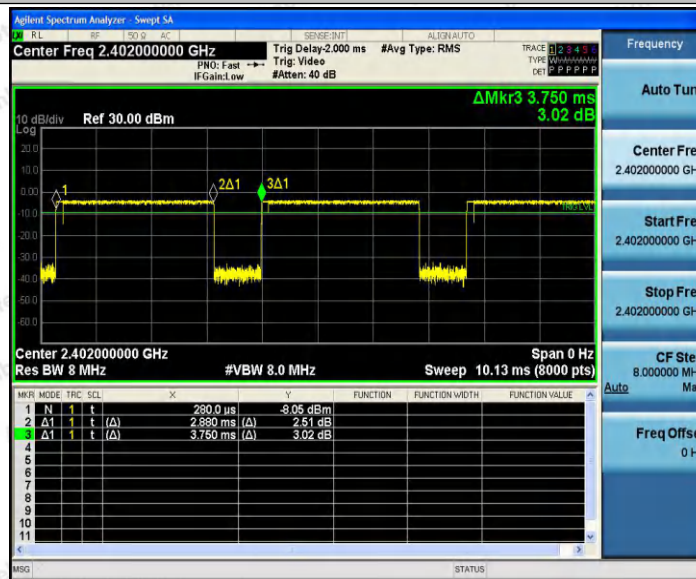
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

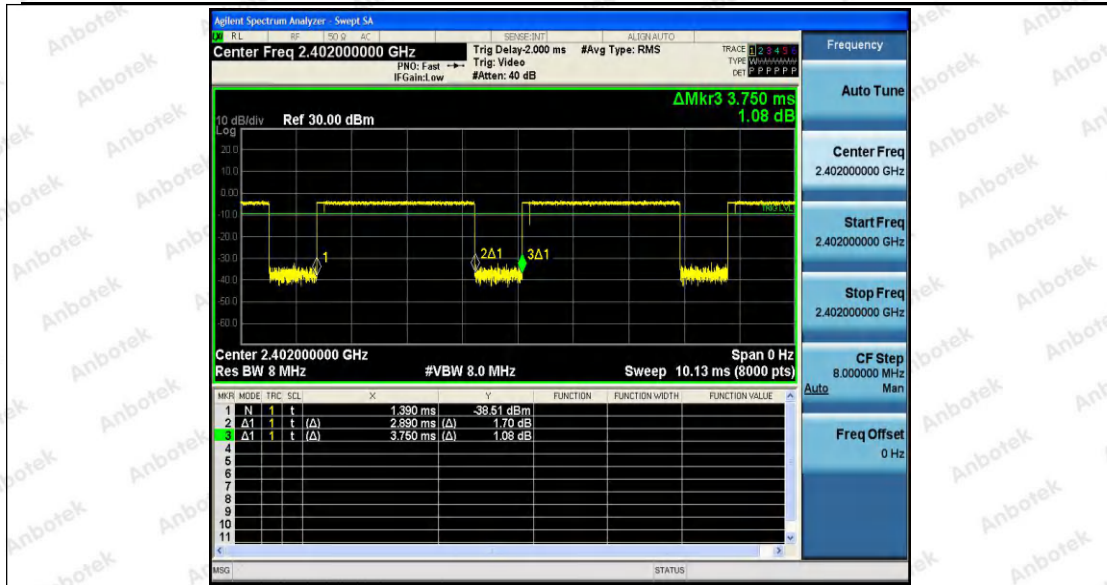
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---