

Appendix Test Data

Report No.:	18220WC20035901	Test Sample No.:	1-2-2
Start Test Date:	2022.2.24	Finish Test Date:	2022.2.25
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	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	2401.535	2402.483	---	PASS
		2441	0.942	2440.538	2441.480	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.344	2440.328	2441.672	---	PASS
		2480	1.323	2479.334	2480.657	---	PASS
3DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.284	2440.346	2441.630	---	PASS
		2480	1.314	2479.343	2480.657	---	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



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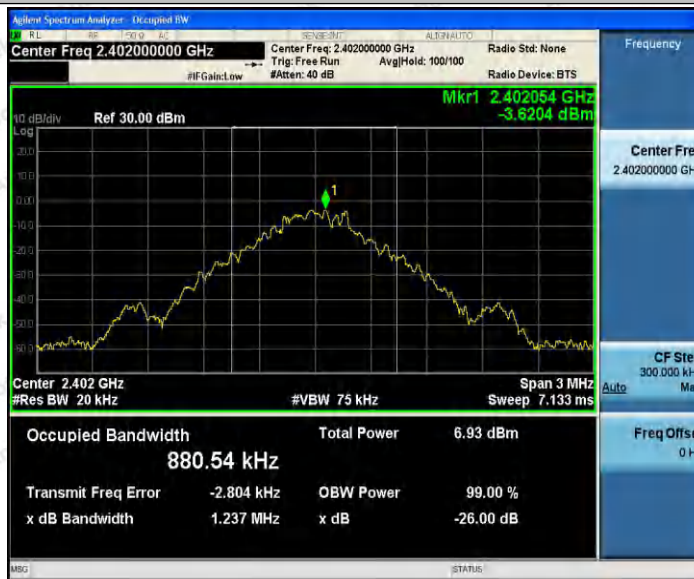
Appendix B: Occupied Channel Bandwidth

Test Result

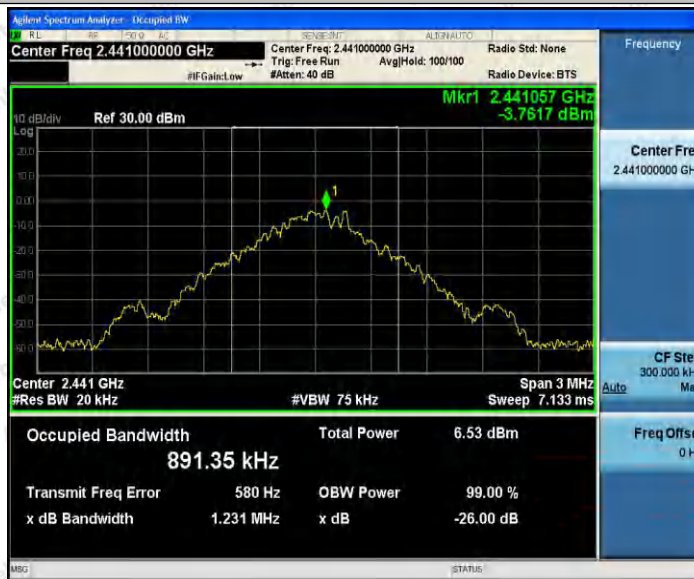
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88054	2401.55 7	2402.437	---	PASS
		2441	0.89135	2440.55 5	2441.446	---	PASS
		2480	0.88913	2479.55 6	2480.445	---	PASS
2DH5	Ant1	2402	1.2104	2401.39 4	2402.605	---	PASS
		2441	1.2034	2440.39 7	2441.601	---	PASS
		2480	1.1906	2479.40 4	2480.595	---	PASS
3DH5	Ant1	2402	1.2095	2401.38 5	2402.594	---	PASS
		2441	1.2137	2440.38 3	2441.597	---	PASS
		2480	1.2011	2479.39 2	2480.593	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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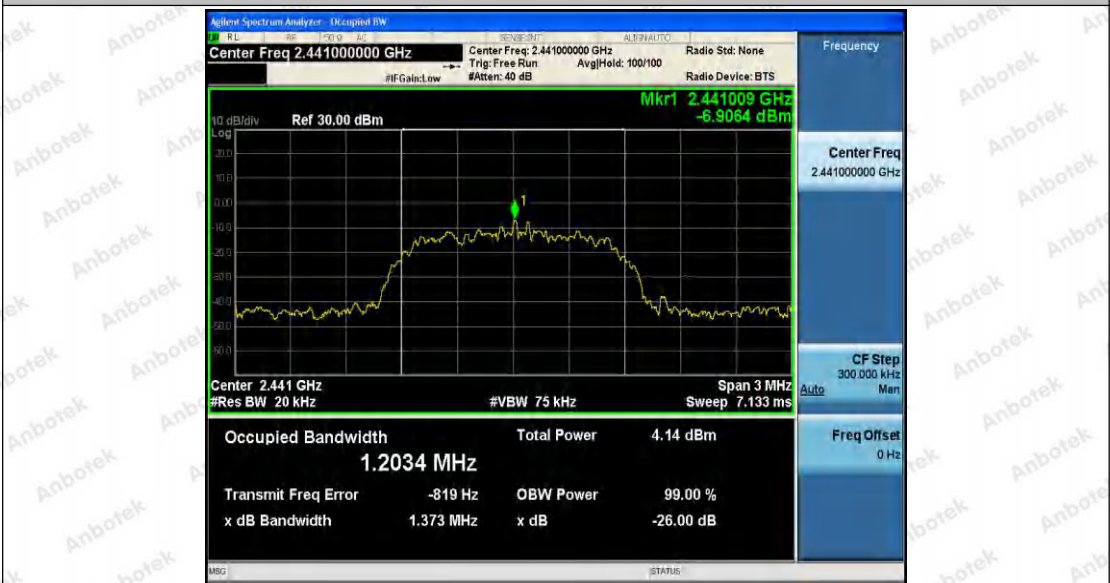
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2DH5_Ant1_2402



2DH5_Ant1_2441



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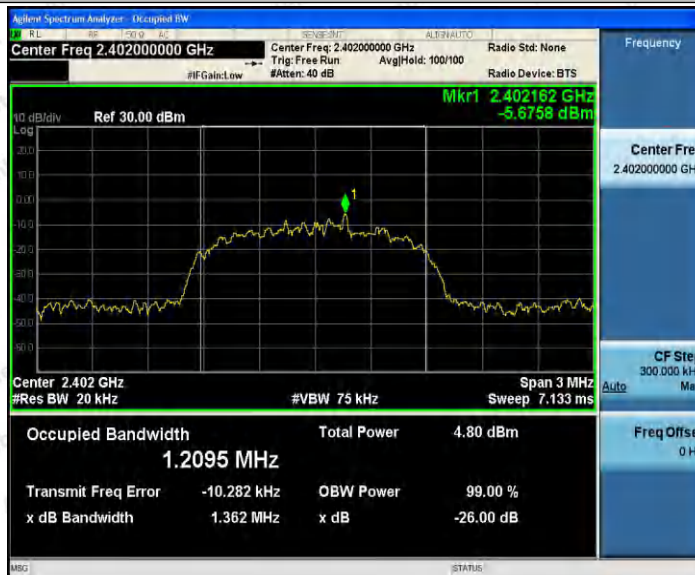
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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3DH5_Ant1_2480



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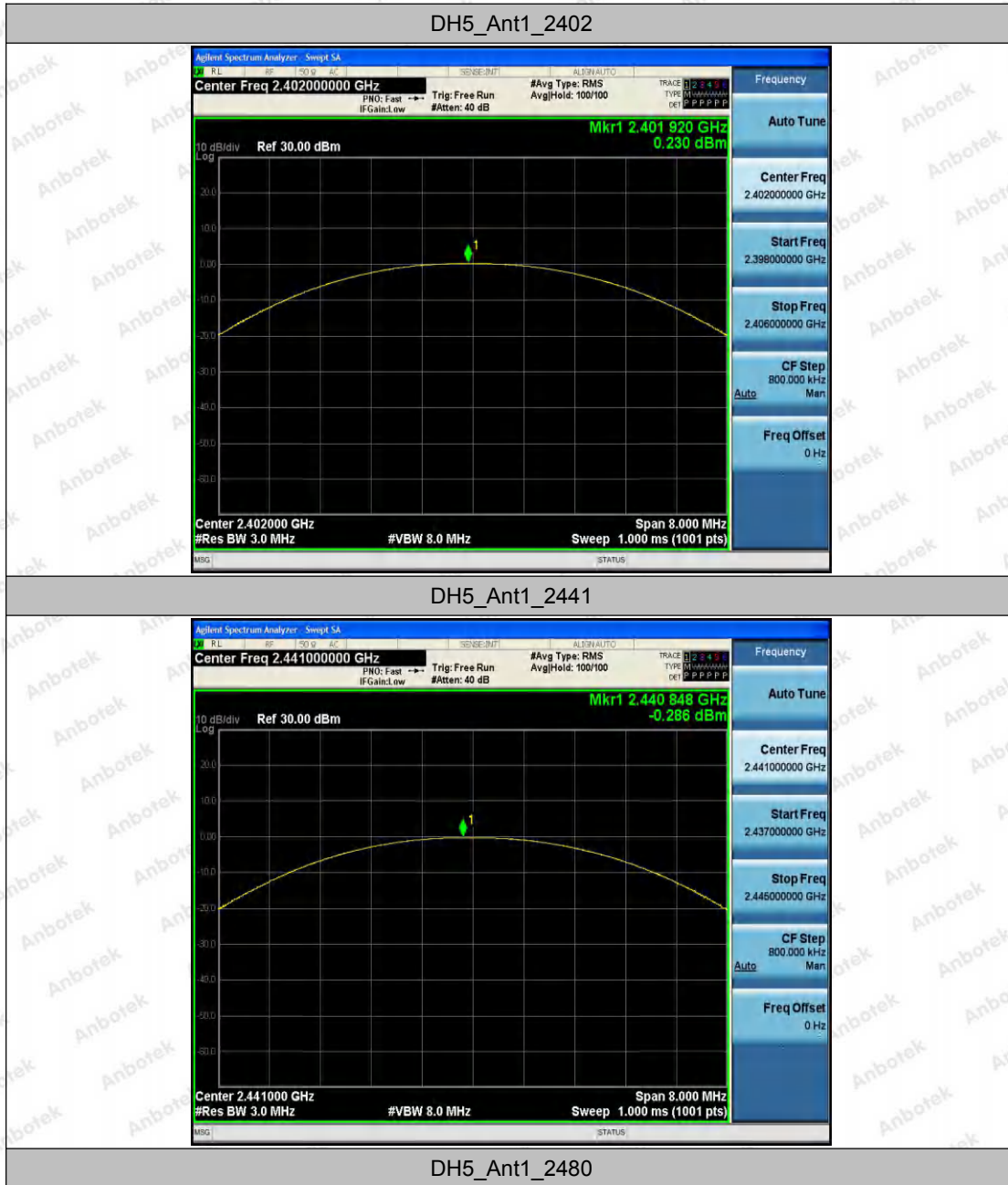
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.23	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	0.59	≤20.97	PASS
2DH5	Ant1	2402	-0.74	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-0.41	≤20.97	PASS
3DH5	Ant1	2402	-0.38	≤20.97	PASS
		2441	-0.63	≤20.97	PASS
		2480	-0.01	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥0.948	PASS
2DH5	Ant1	Hop	1.056	≥0.896	PASS
3DH5	Ant1	Hop	1.022	≥0.876	PASS

Test Graphs



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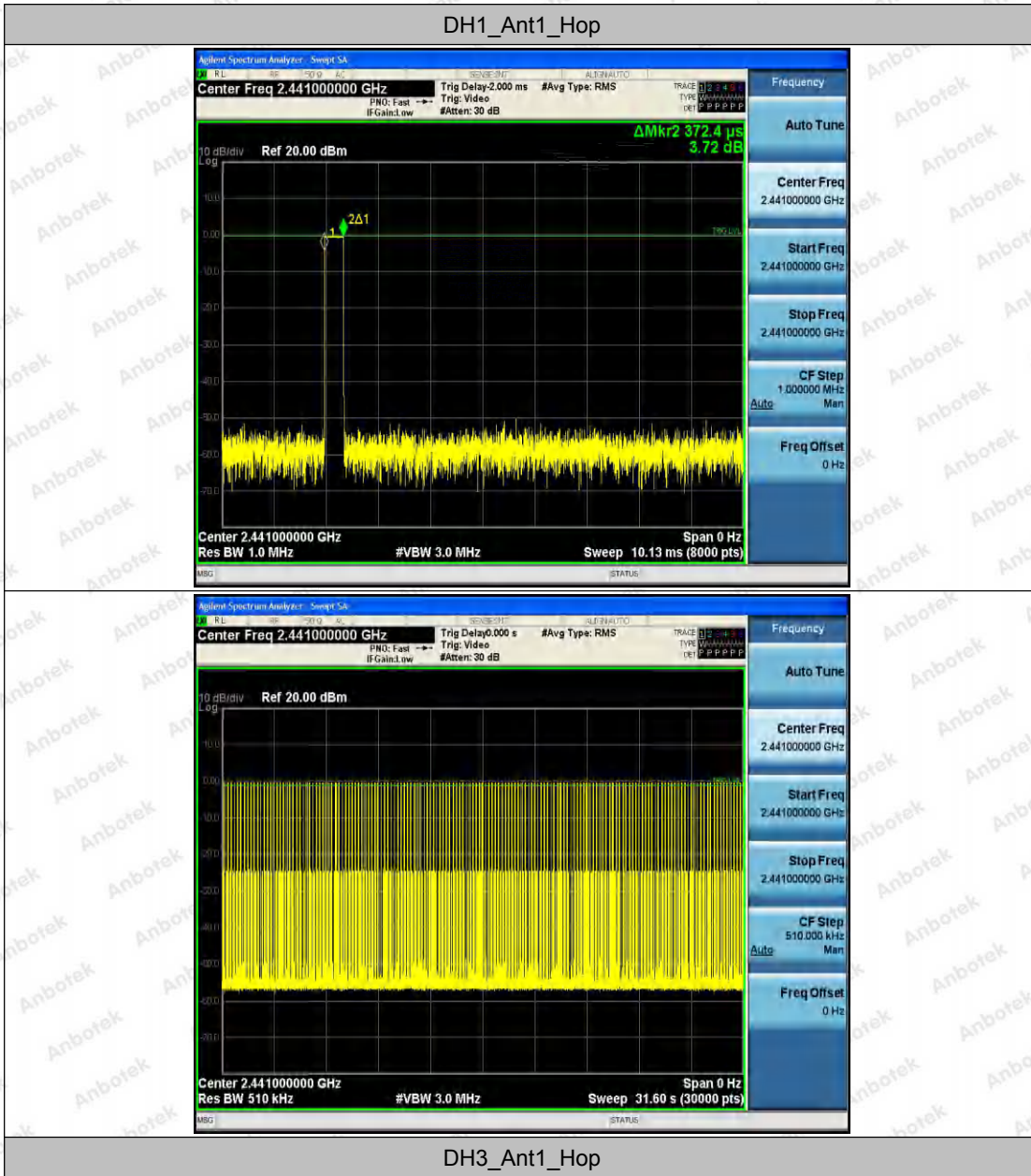
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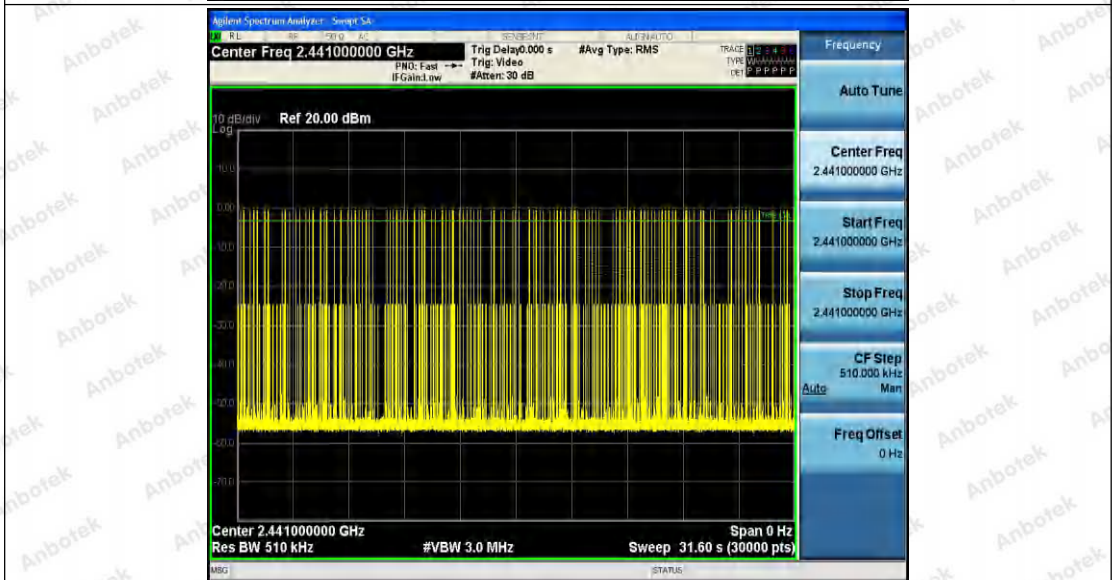
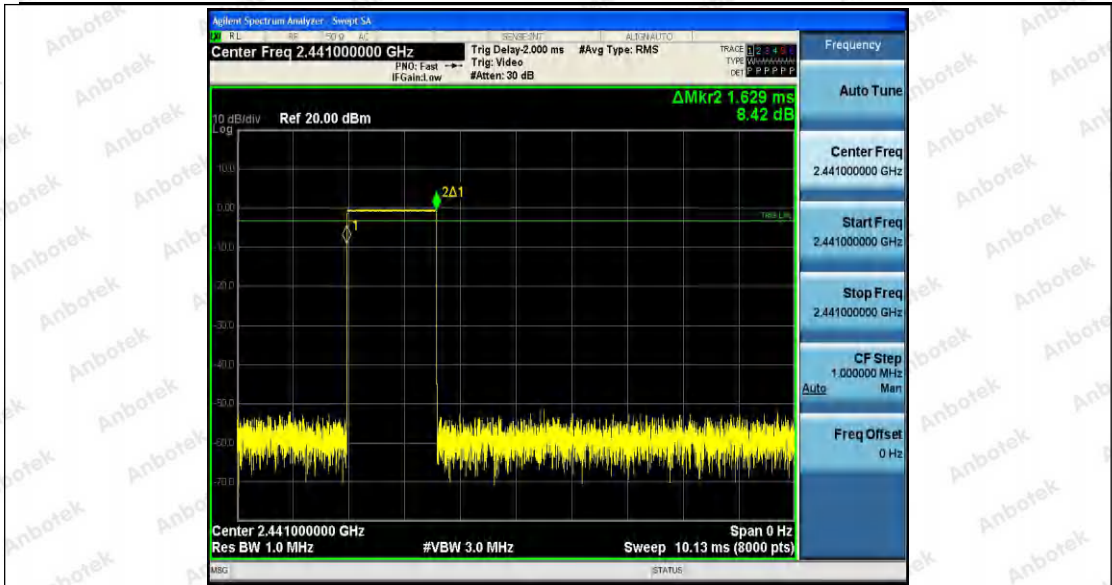
Appendix E: Time of occupancy

Test Result

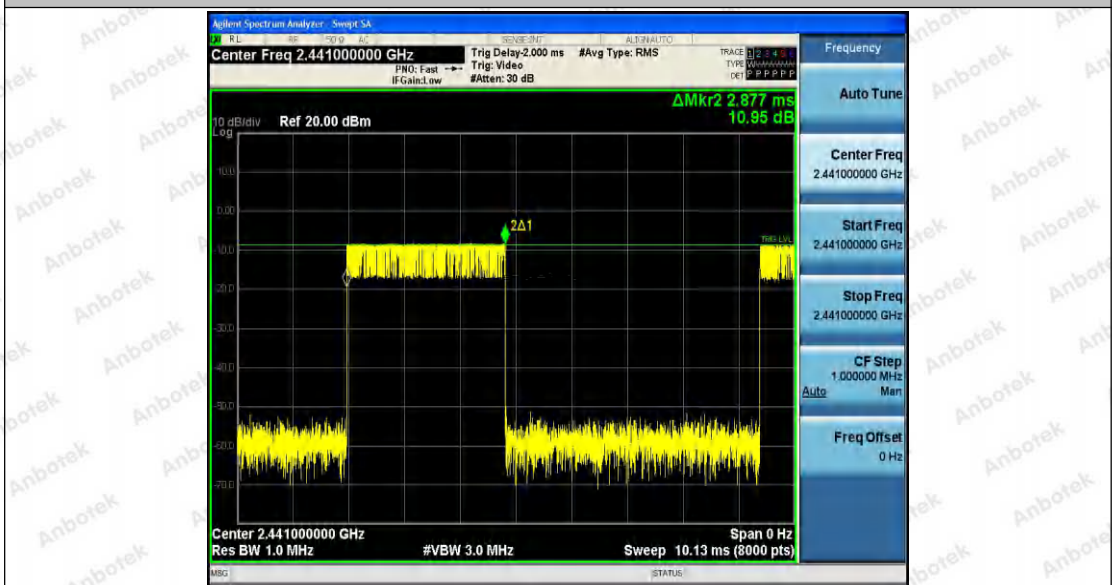
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	103	0.296	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

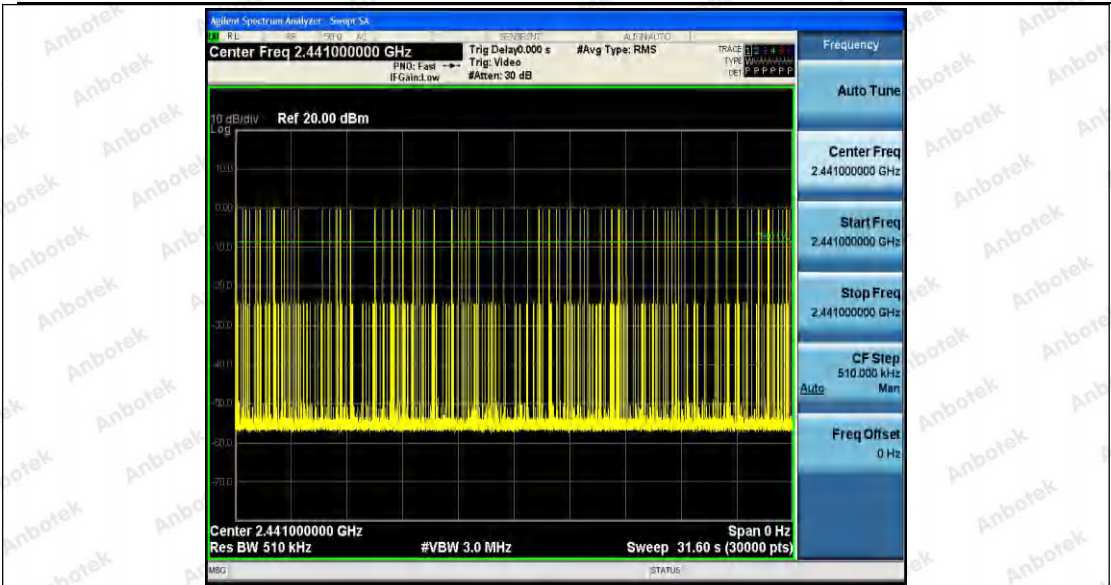


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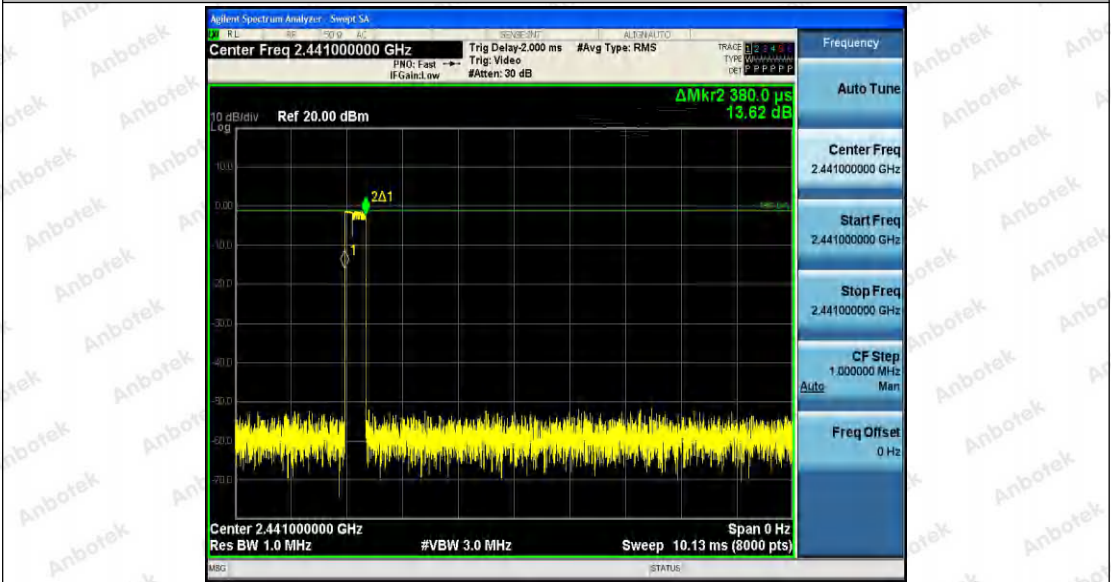
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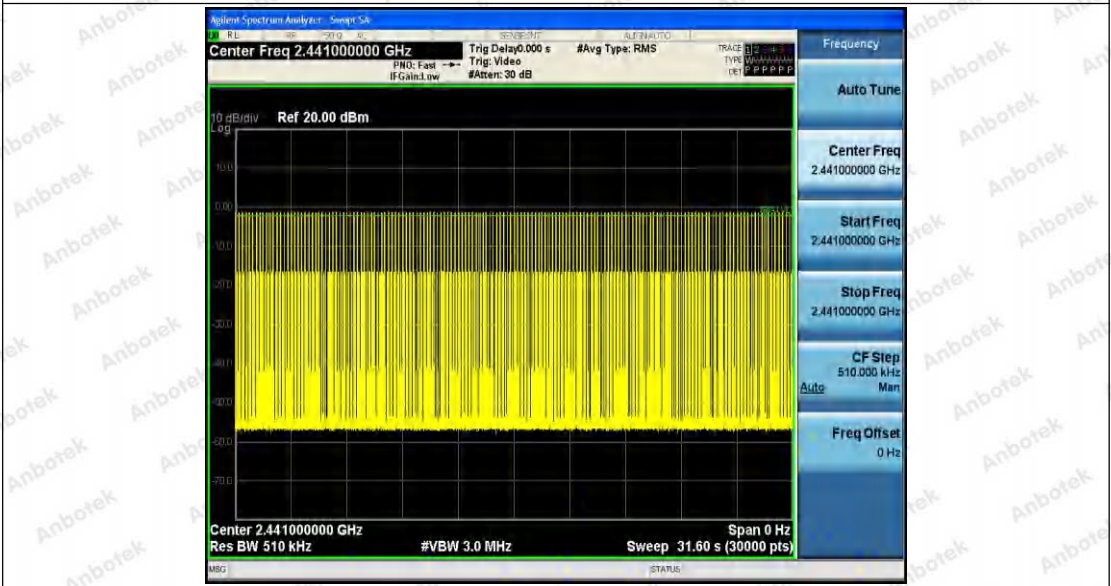
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2DH1_Ant1_Hop



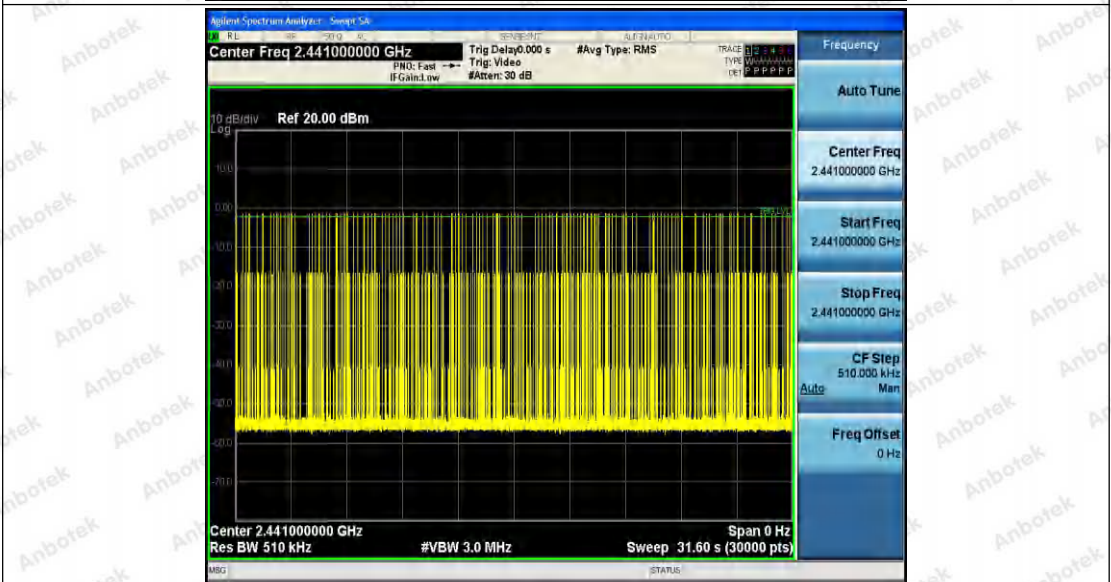
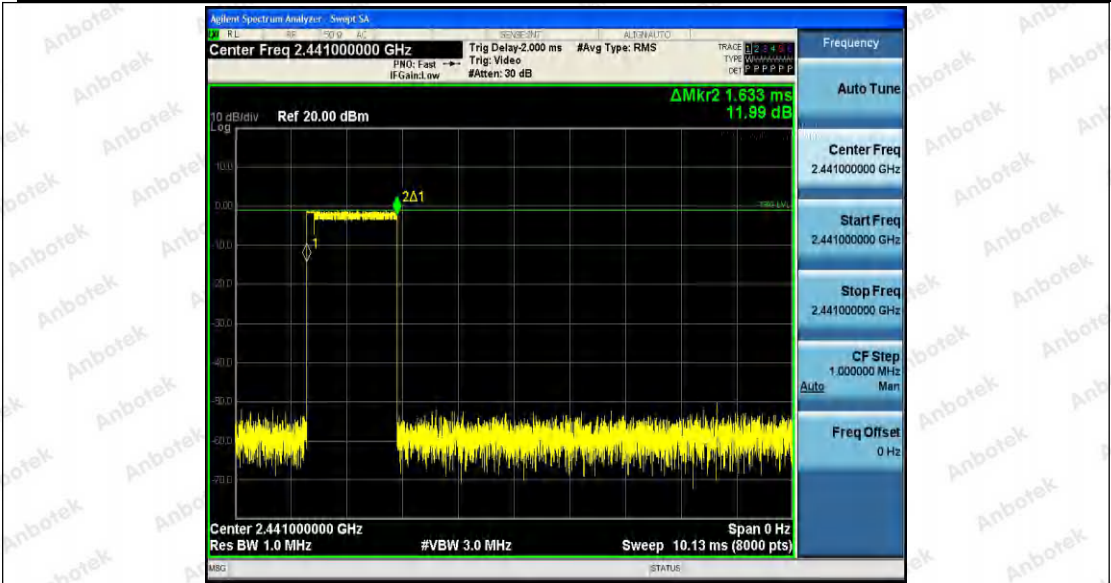
2DH3_Ant1_Hop



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2DH5_Ant1_Hop

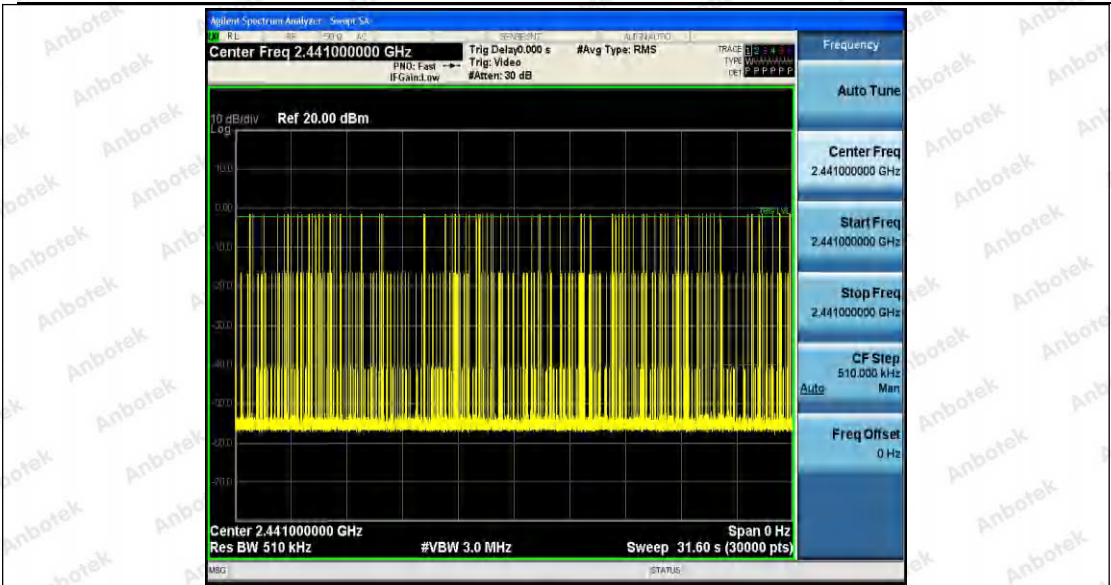


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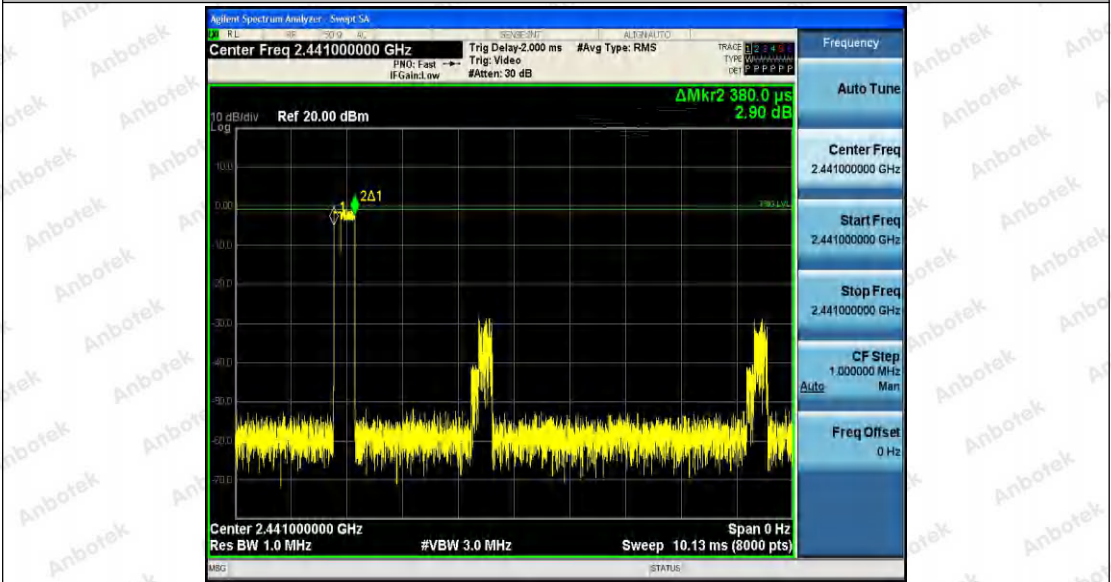
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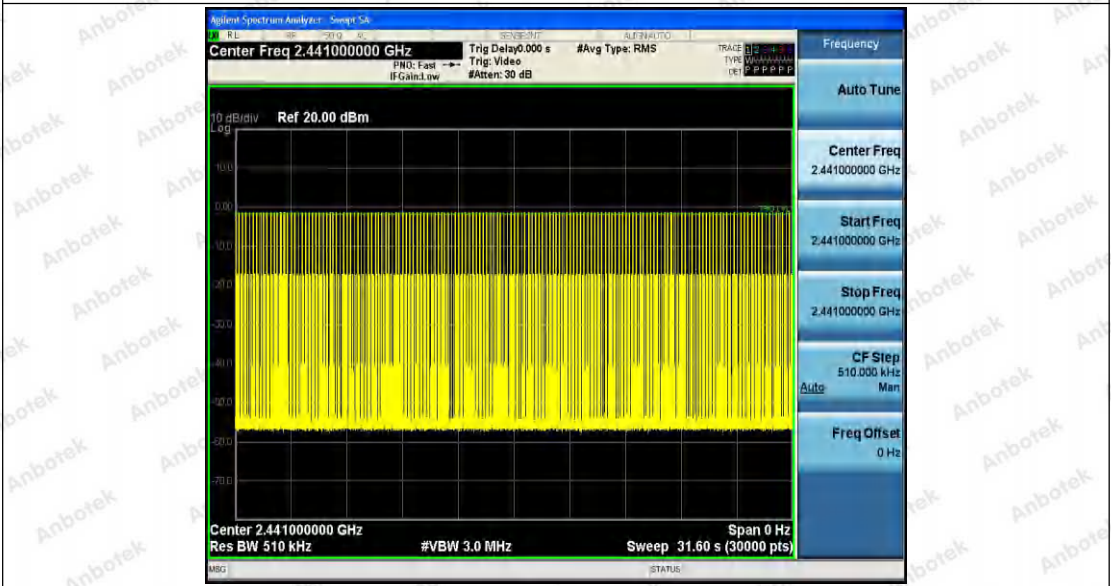
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3DH1_Ant1_Hop



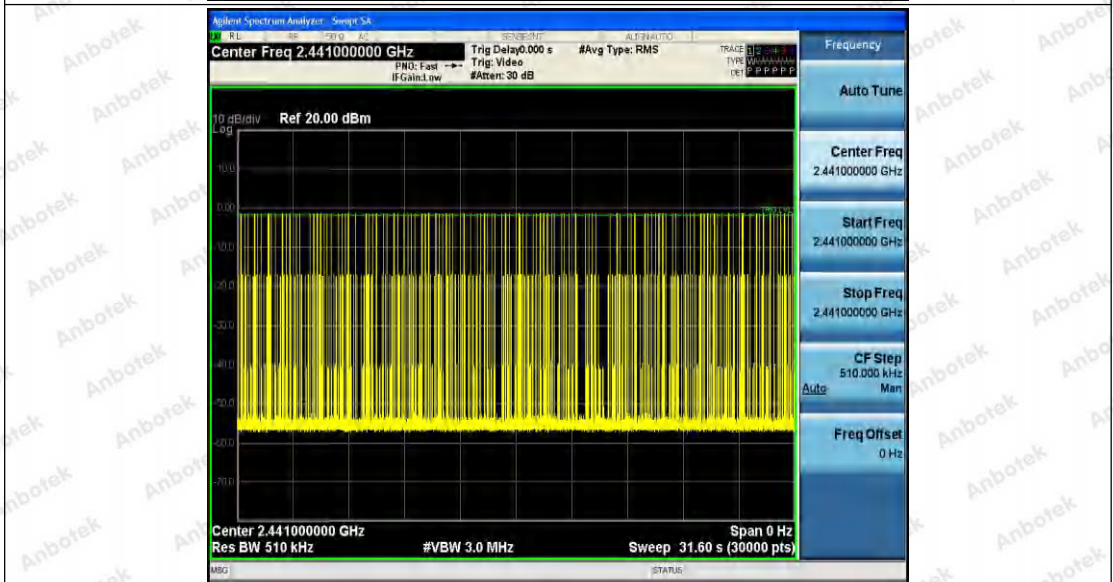
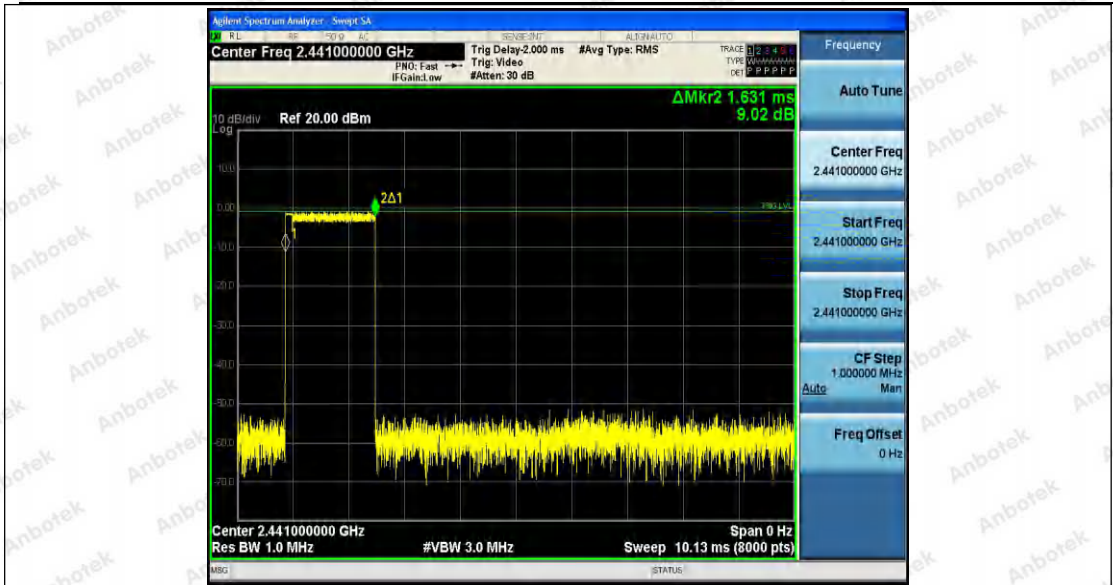
3DH3_Ant1_Hop



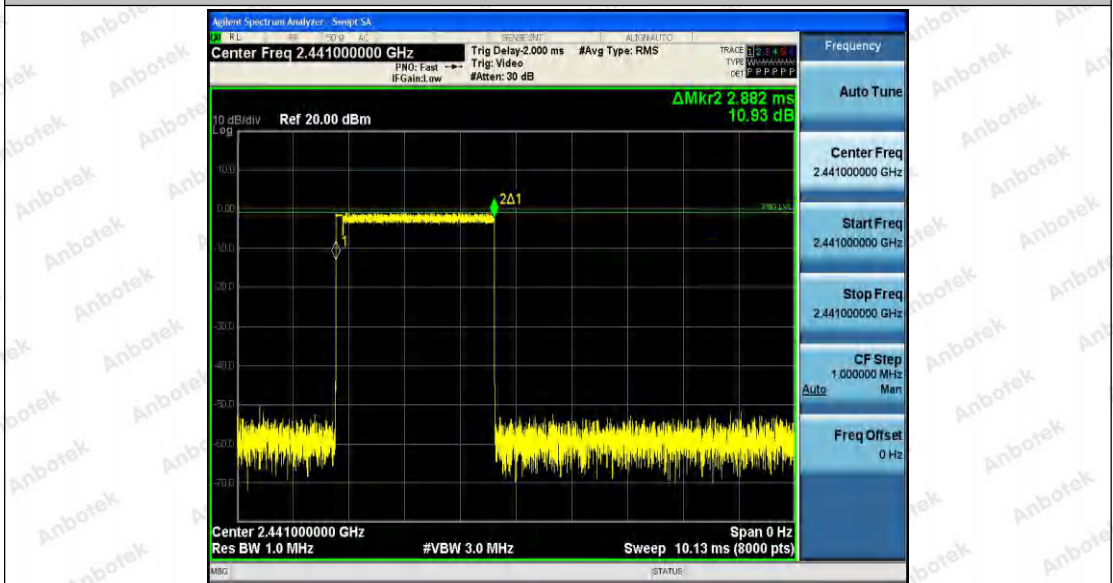
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3DH5_Ant1_Hop

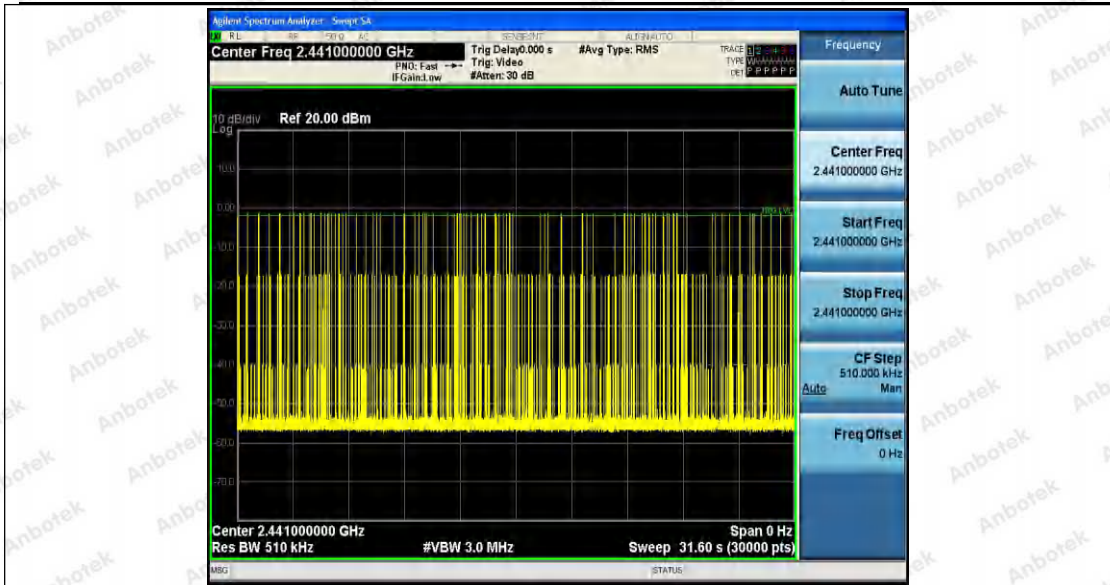


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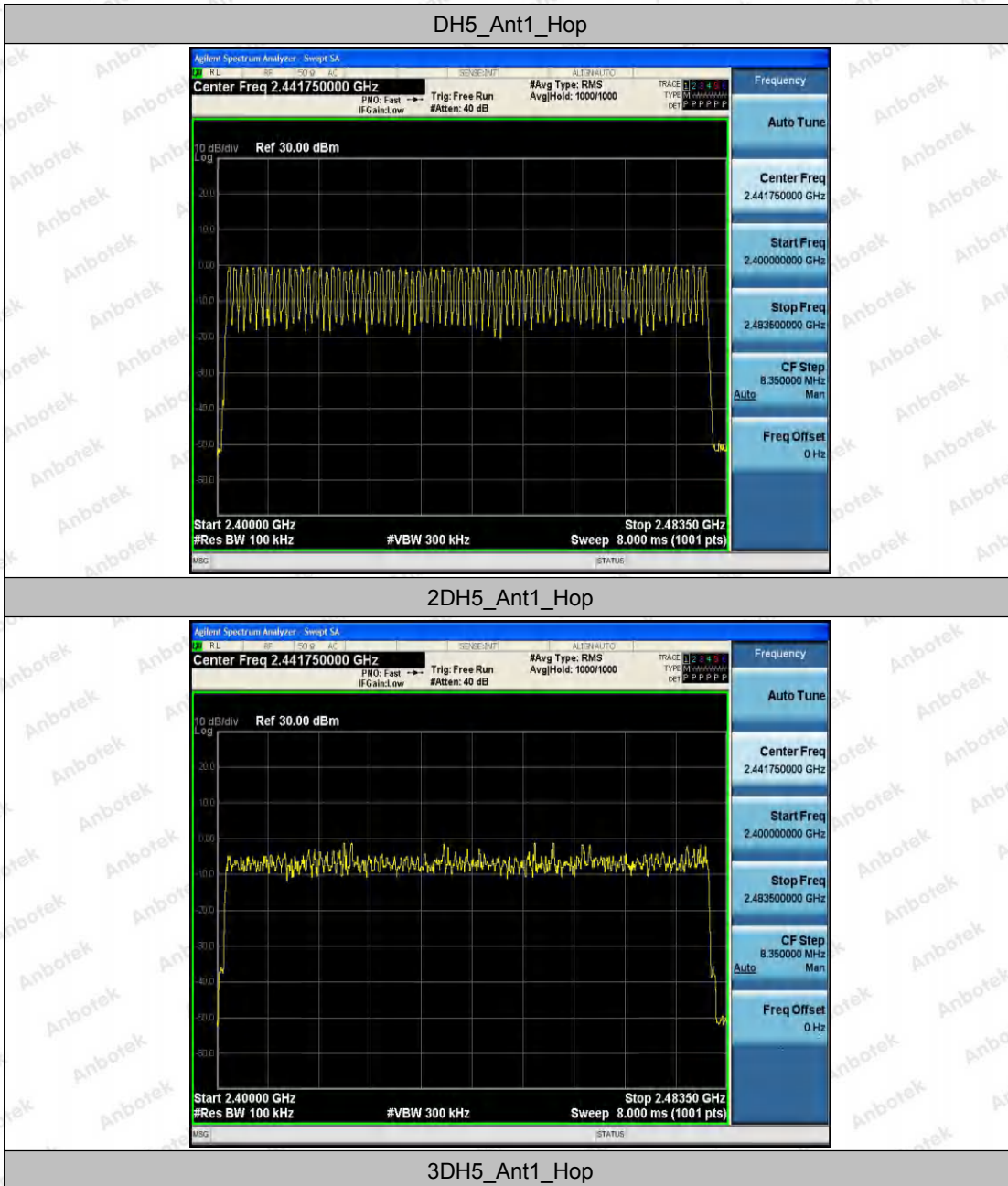
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Appendix F: Number of hopping channels

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

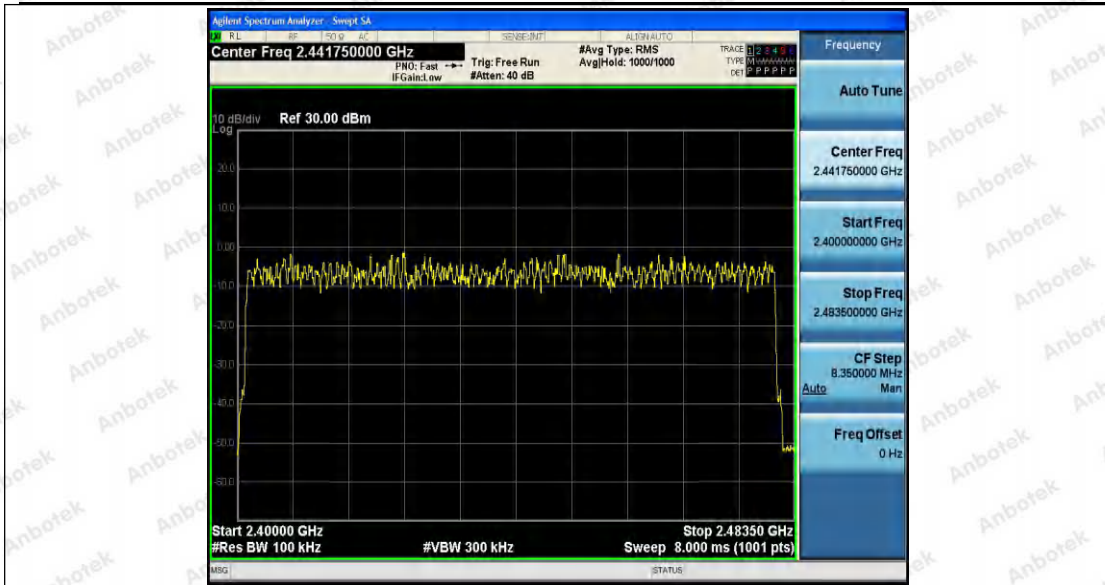


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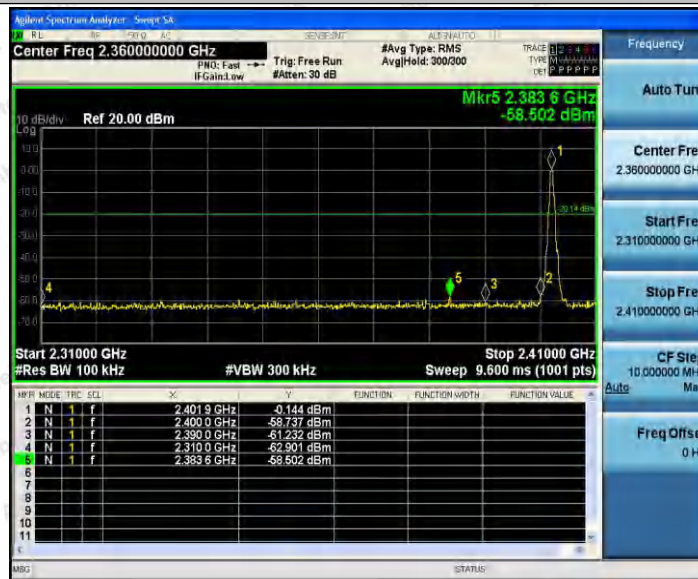
Appendix G: Band edge measurements

Test Result

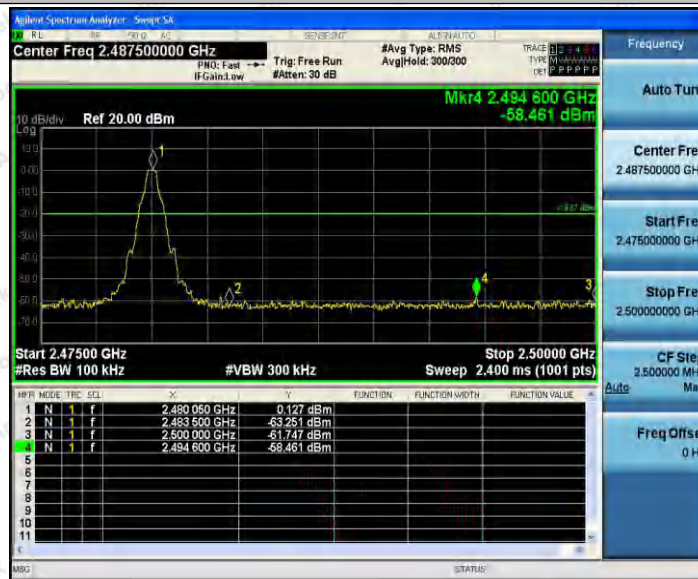
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.14	-58.5	≤-20.14	PASS
		High	2480	0.13	-58.46	≤-19.87	PASS
		Low	Hop	-0.88	-60.11	≤-20.88	PASS
		High	Hop	-0.15	-63.37	≤-20.15	PASS
2DH5	Ant1	Low	2402	-1.58	-56.11	≤-21.58	PASS
		High	2480	-2.28	-59.17	≤-22.28	PASS
		Low	Hop	-5.59	-59.82	≤-25.59	PASS
		High	Hop	-5.07	-61.31	≤-25.07	PASS
3DH5	Ant1	Low	2402	-1.37	-57.83	≤-21.37	PASS
		High	2480	-0.91	-58.93	≤-20.91	PASS
		Low	Hop	-4.61	-59.8	≤-24.61	PASS
		High	Hop	-2.55	-62.7	≤-22.55	PASS

Test Graphs

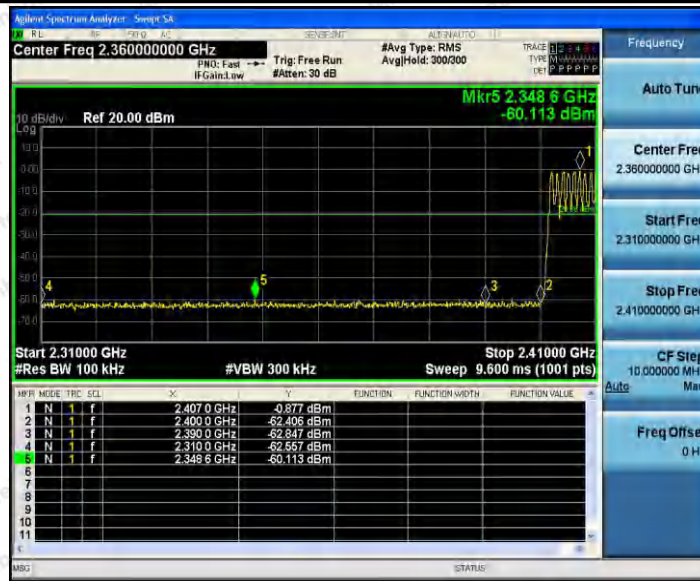
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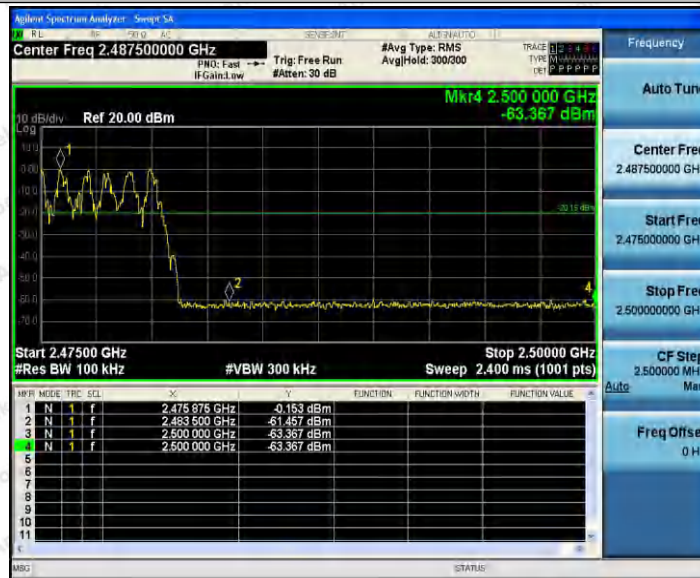
DH5_Ant1_High_2480



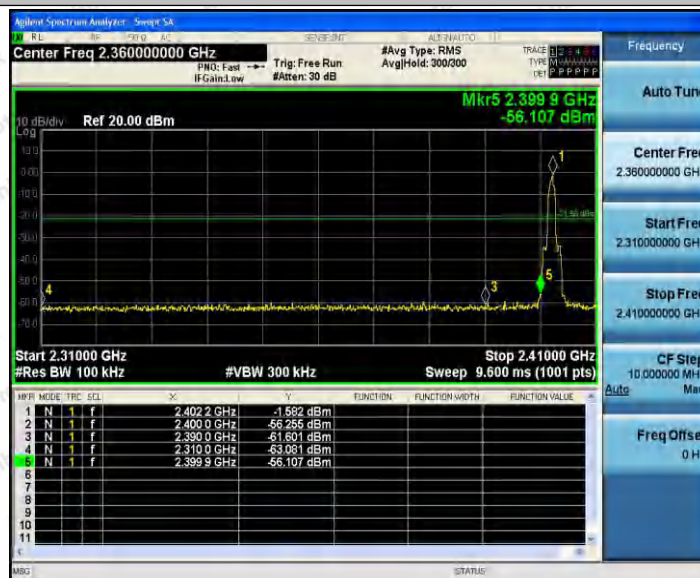
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

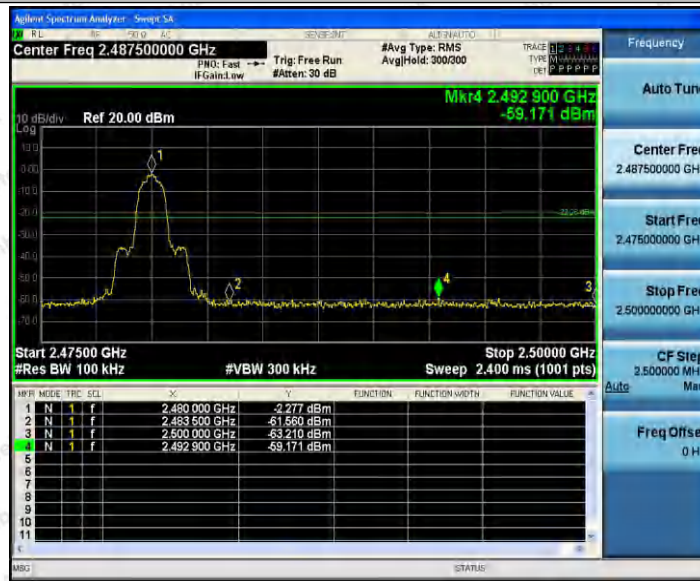


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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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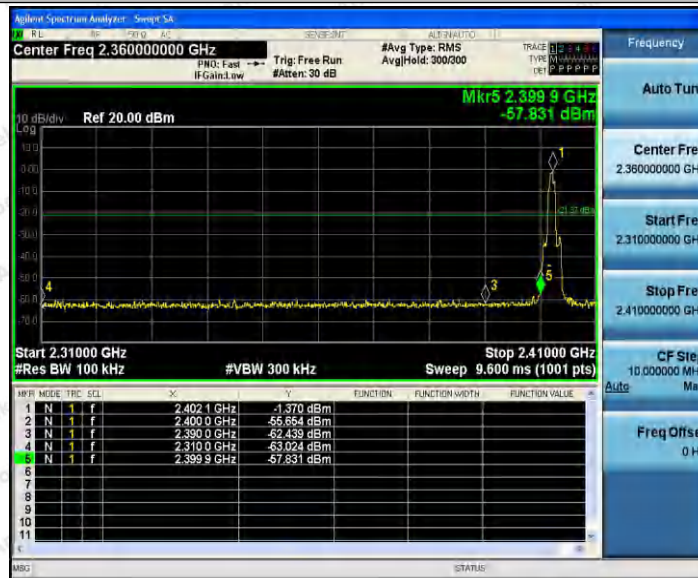
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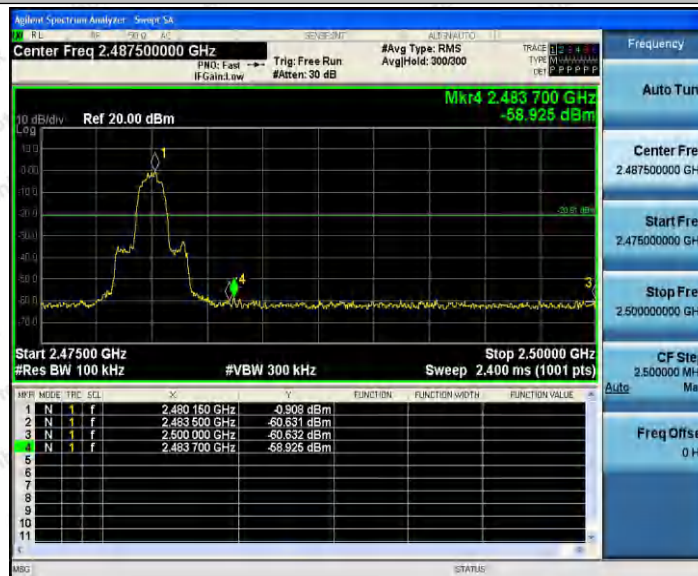
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



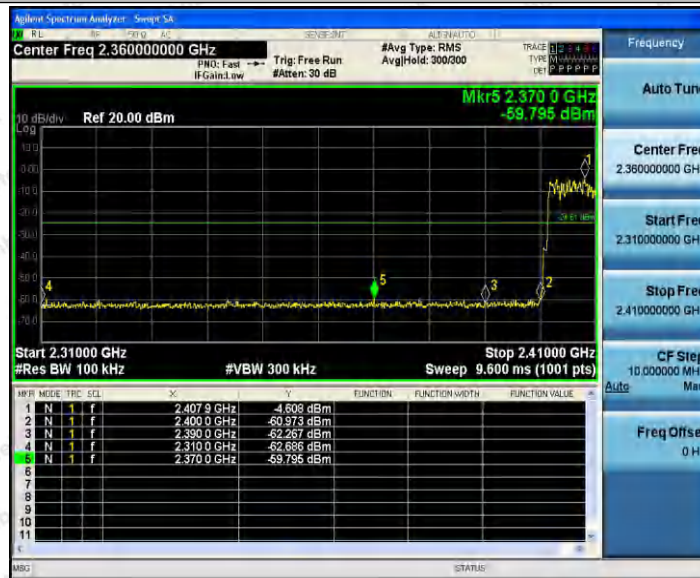
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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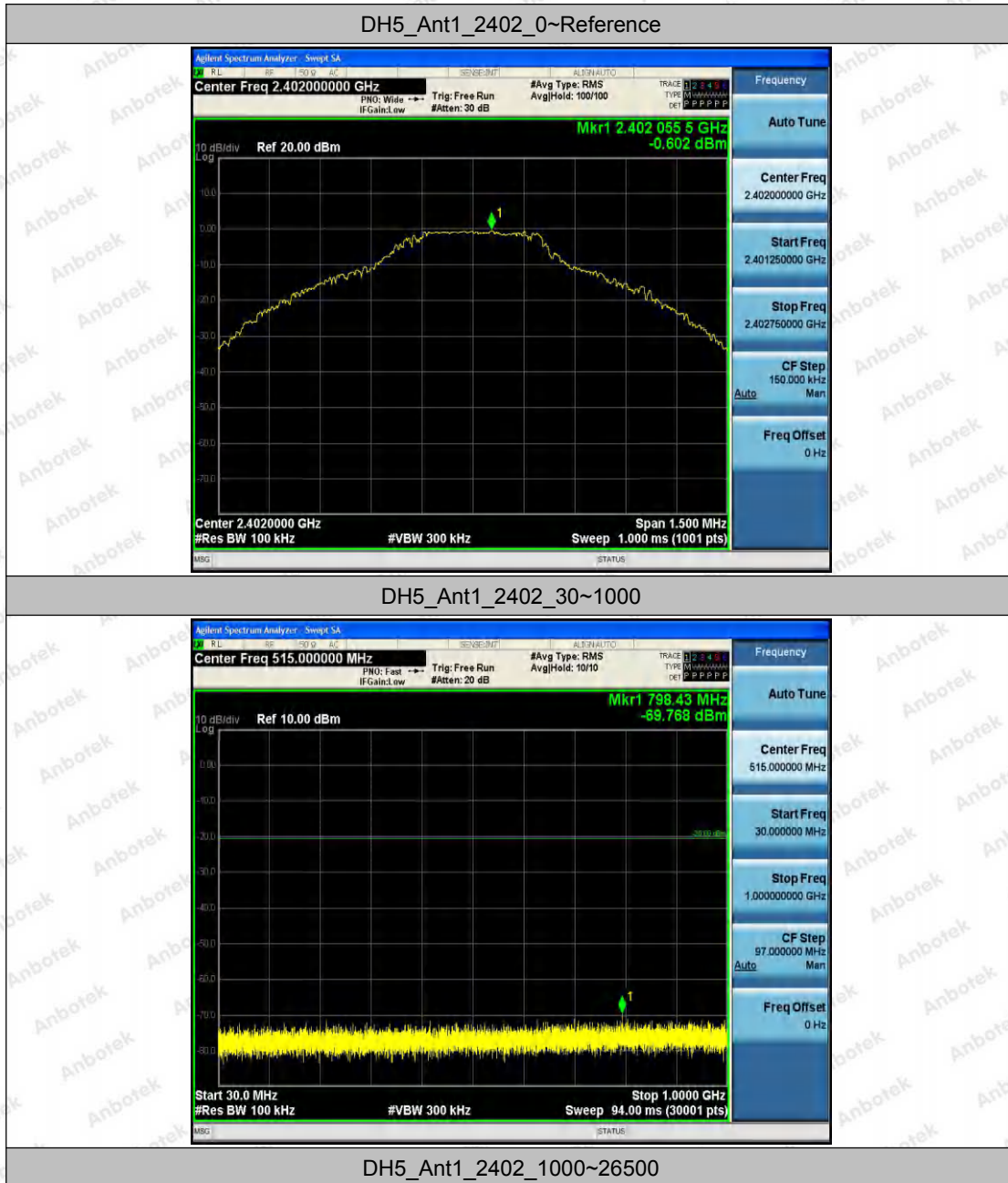
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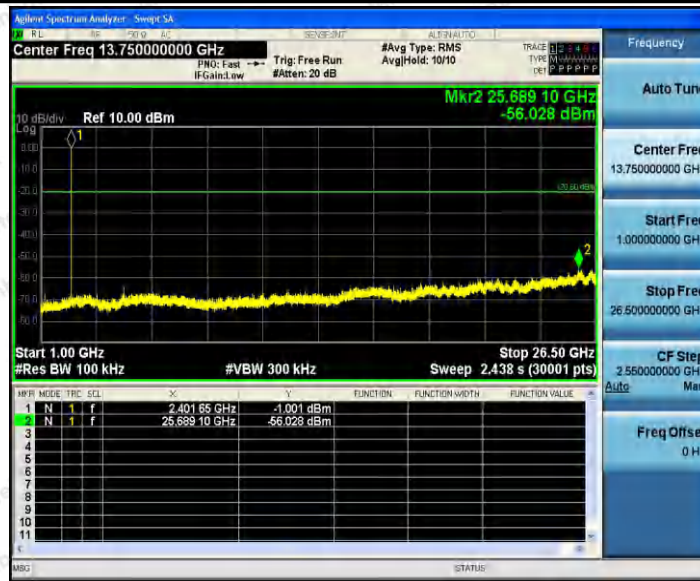
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.60	-0.60	---	PASS
			30~1000	-0.60	-69.77	≤-20.6	PASS
			1000~26500	-0.60	-56.03	≤-20.6	PASS
		2441	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-69.74	≤-20.43	PASS
			1000~26500	-0.43	-55.89	≤-20.43	PASS
		2480	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-70.08	≤-19.96	PASS
			1000~26500	0.04	-55.91	≤-19.96	PASS
2DH5	Ant1	2402	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-70.34	≤-22.25	PASS
			1000~26500	-2.25	-56.2	≤-22.25	PASS
		2441	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-70.7	≤-22.04	PASS
			1000~26500	-2.04	-55.91	≤-22.04	PASS
		2480	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-71.11	≤-21.29	PASS
			1000~26500	-1.29	-56.02	≤-21.29	PASS
3DH5	Ant1	2402	Reference	-2.76	-2.76	---	PASS
			30~1000	-2.76	-70.5	≤-22.76	PASS
			1000~26500	-2.76	-56.65	≤-22.76	PASS
		2441	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-67.94	≤-22.18	PASS
			1000~26500	-2.18	-55.29	≤-22.18	PASS
		2480	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-70.48	≤-20.97	PASS
			1000~26500	-0.97	-55.85	≤-20.97	PASS

Test Graphs

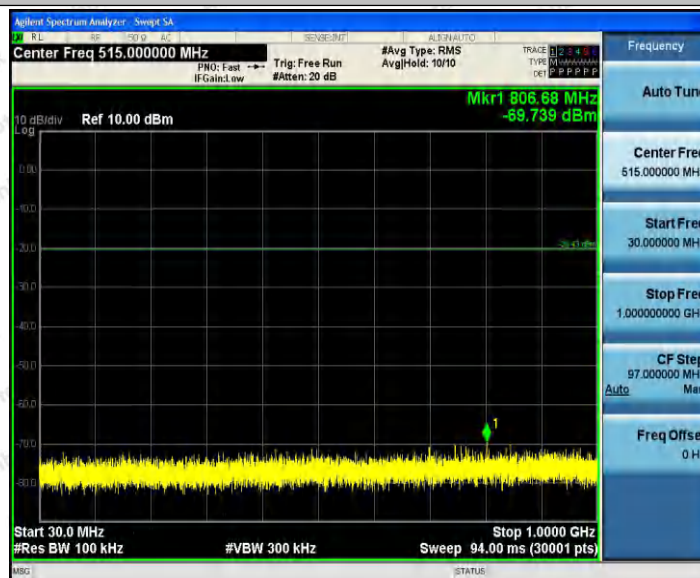




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

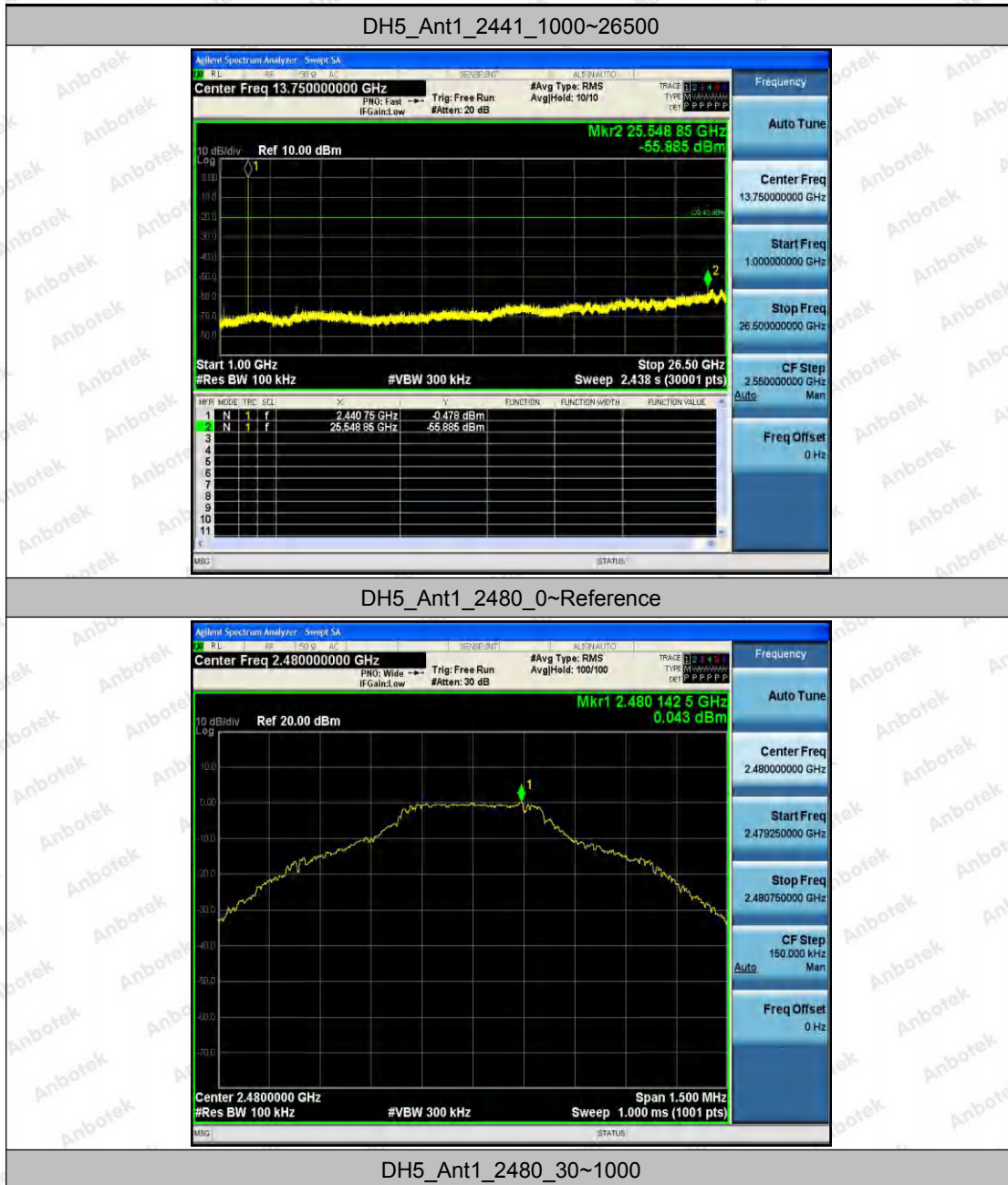


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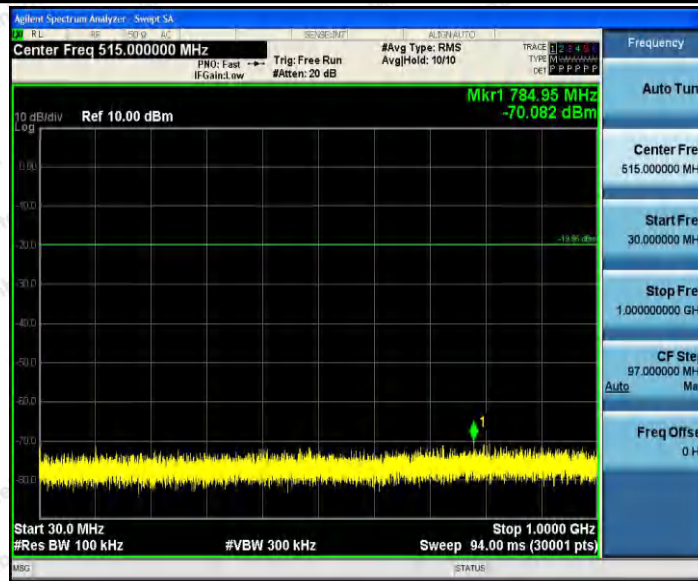
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

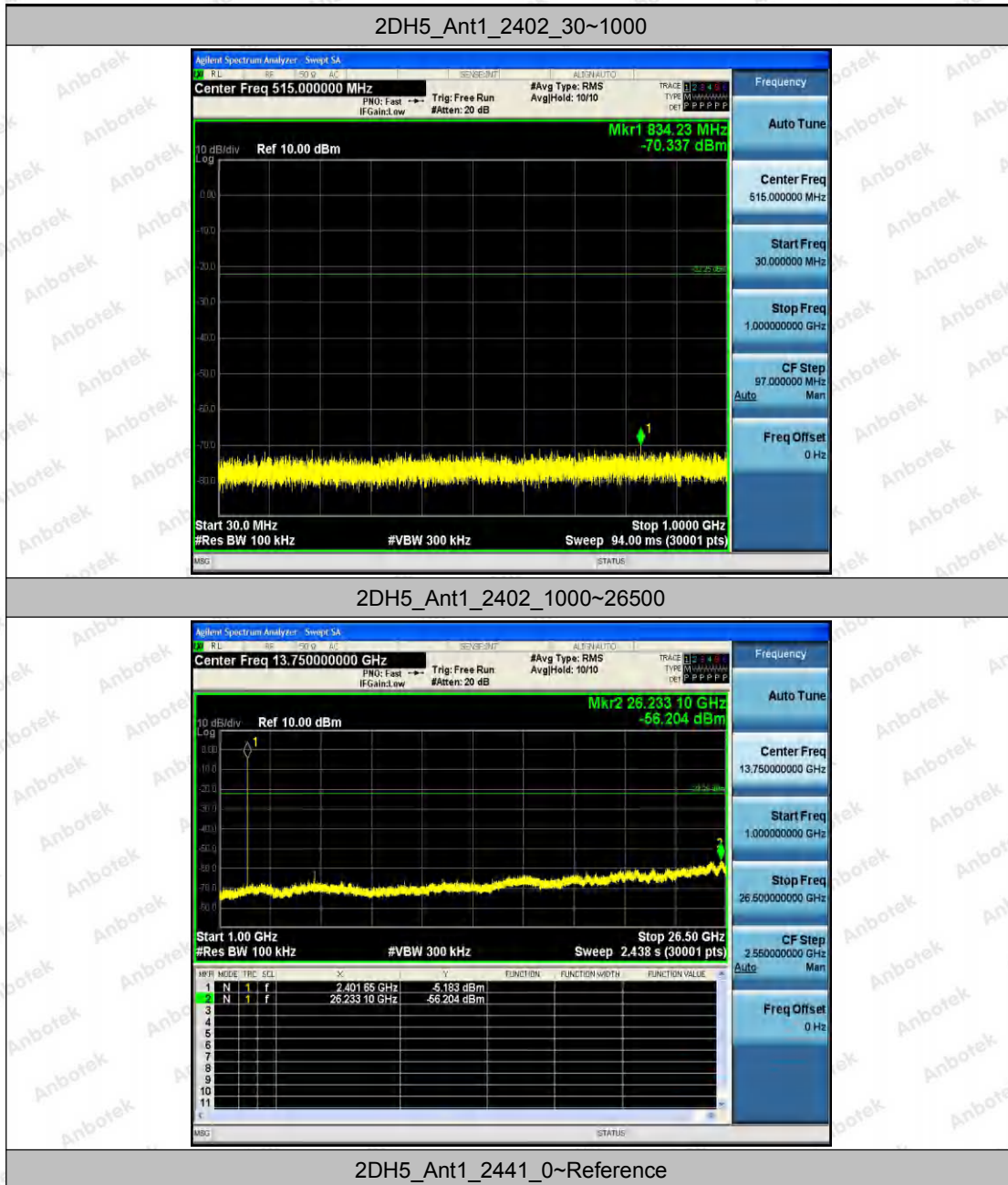


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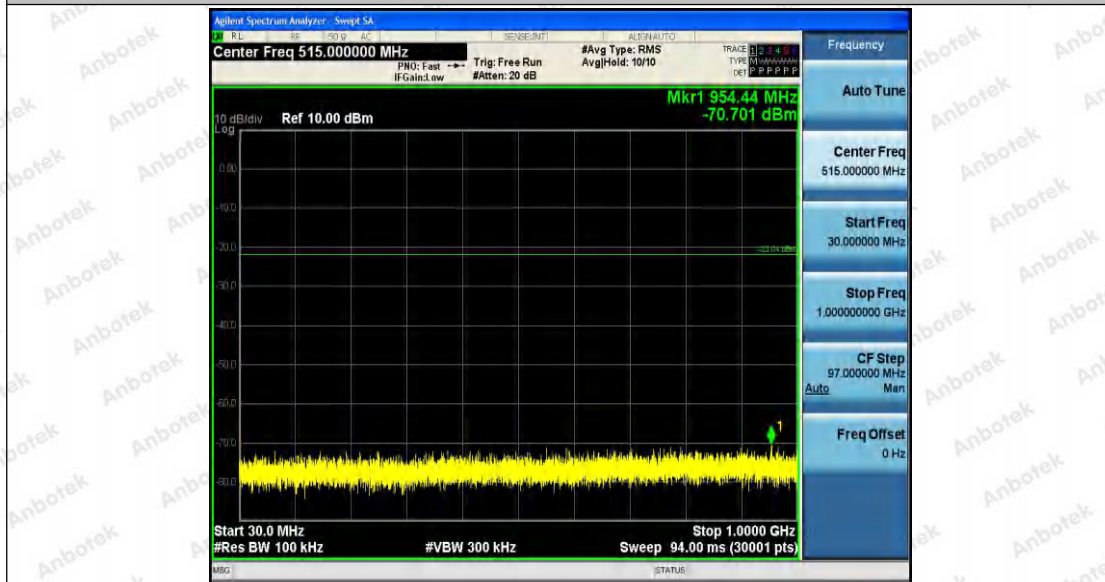
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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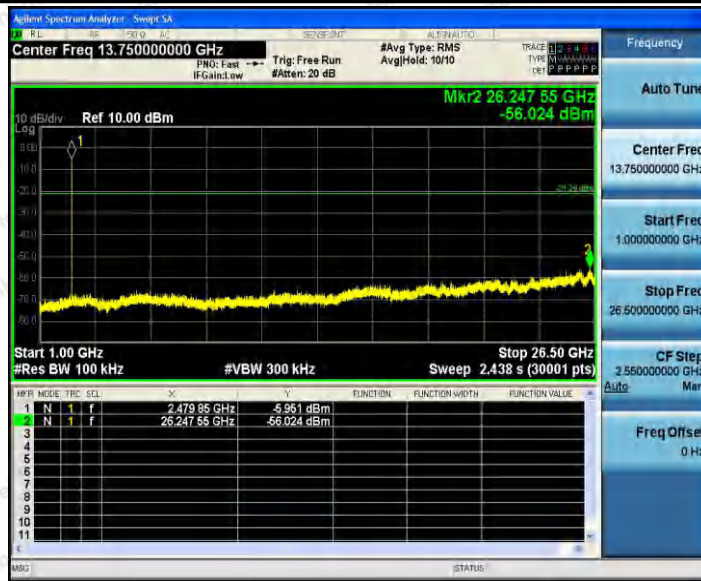


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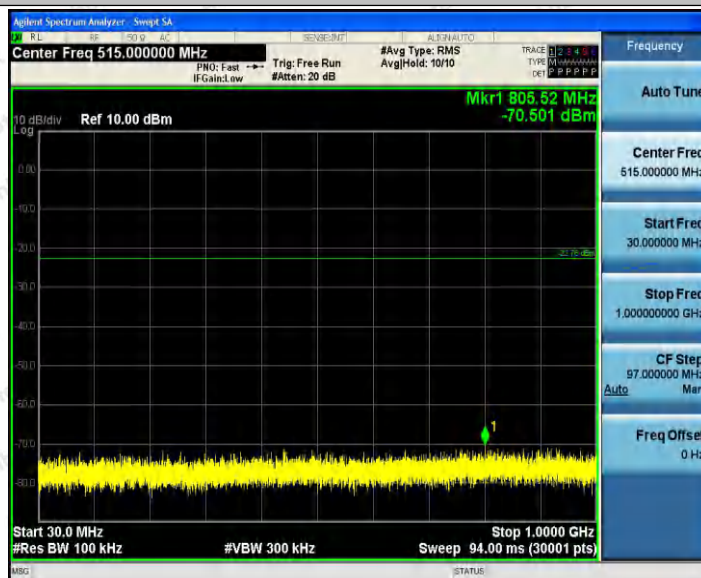
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

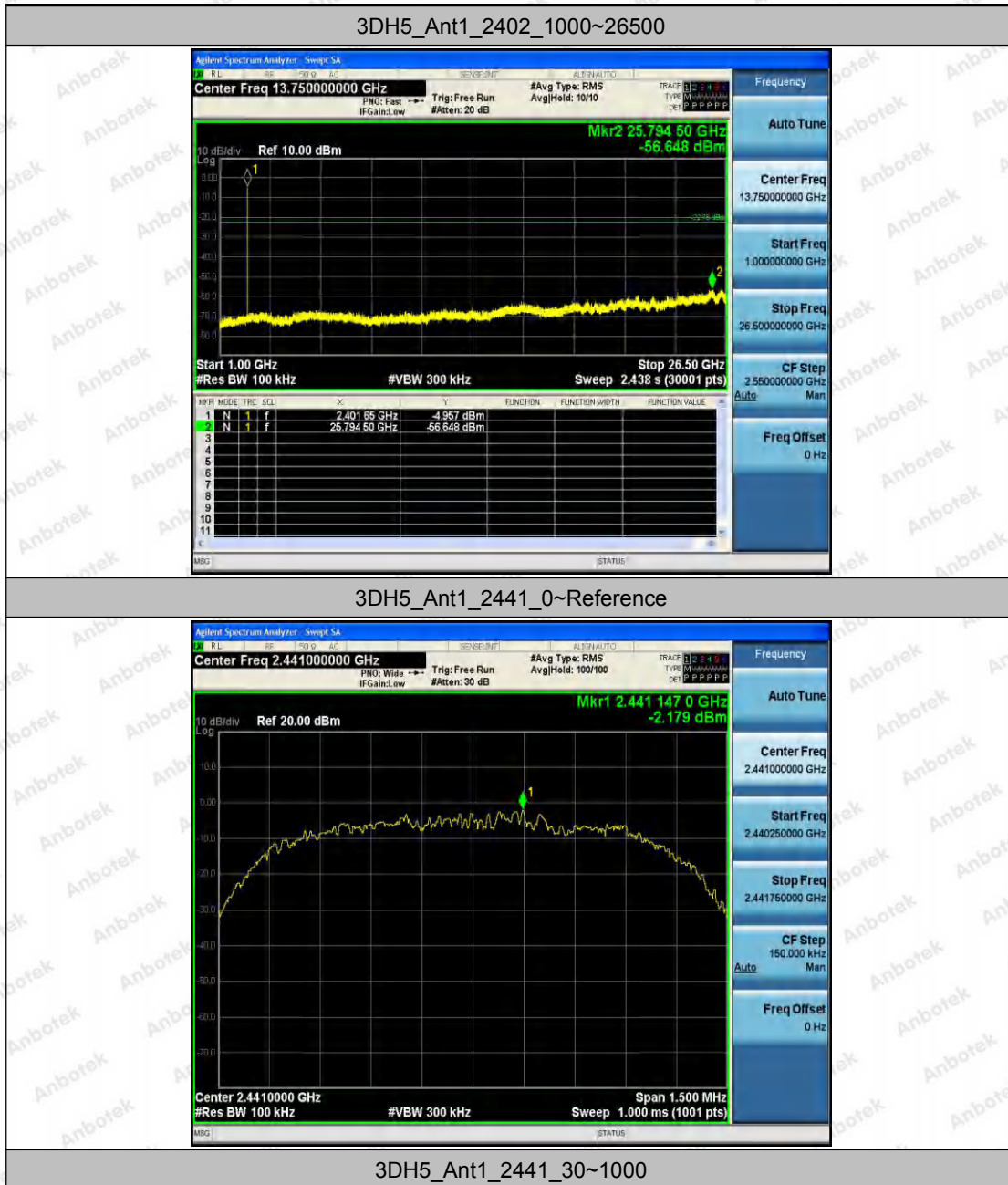


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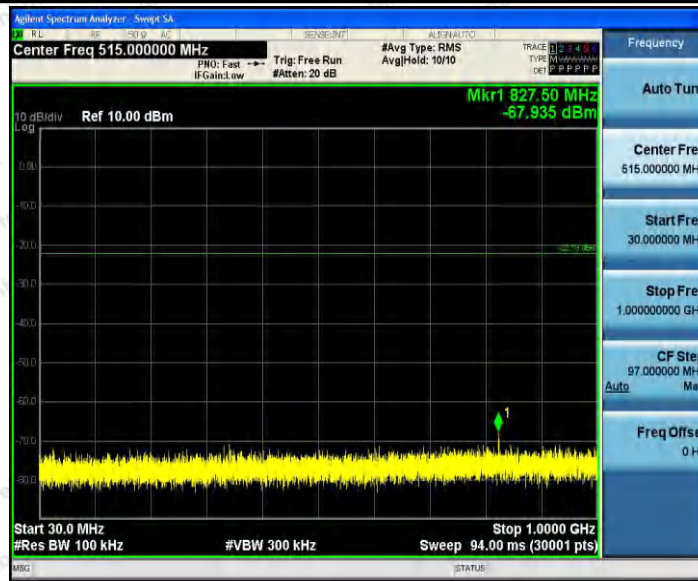


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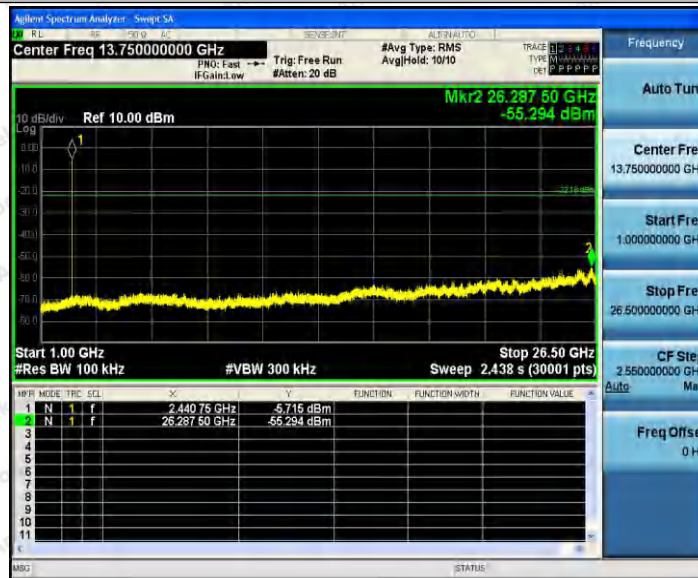
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

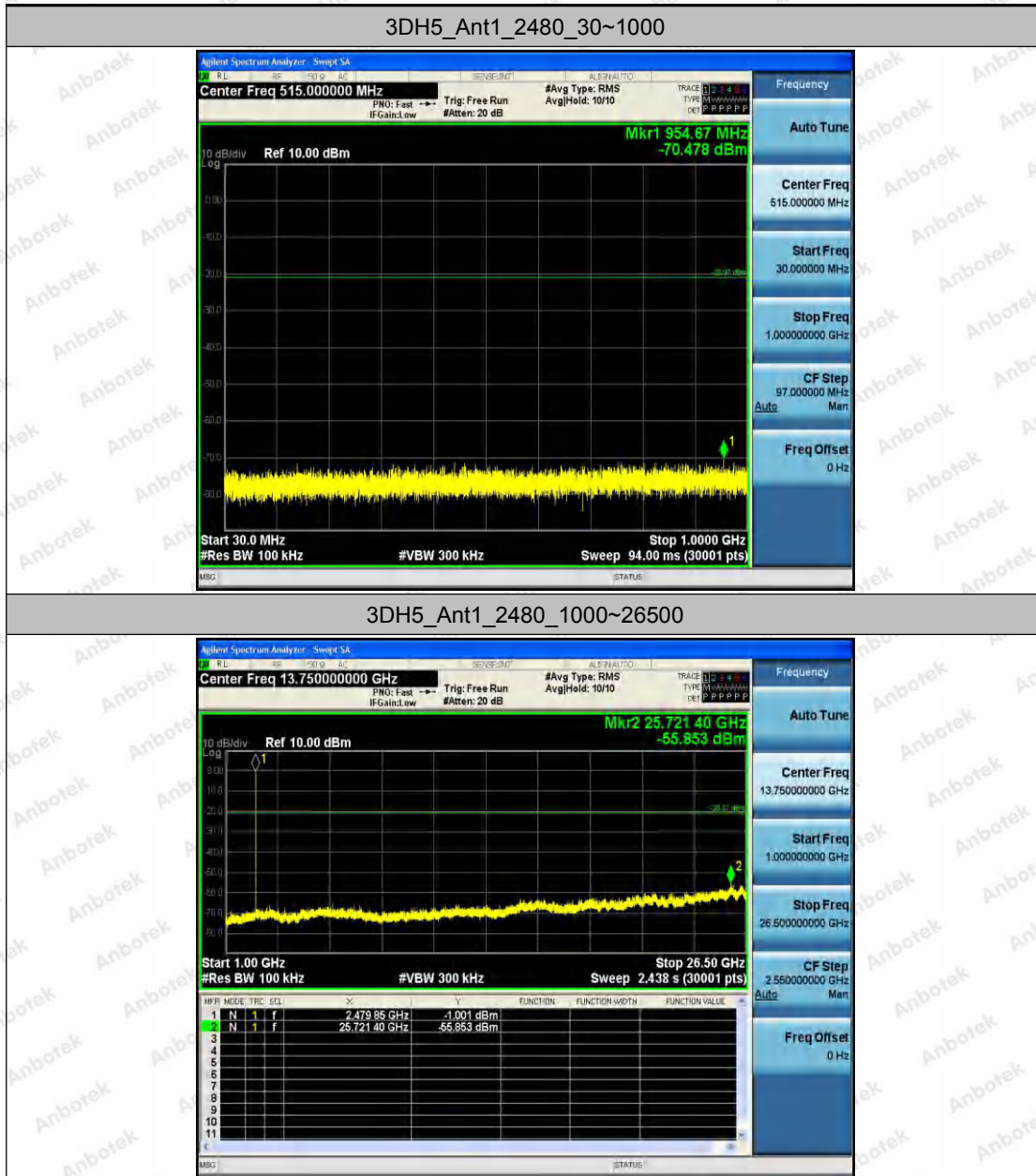


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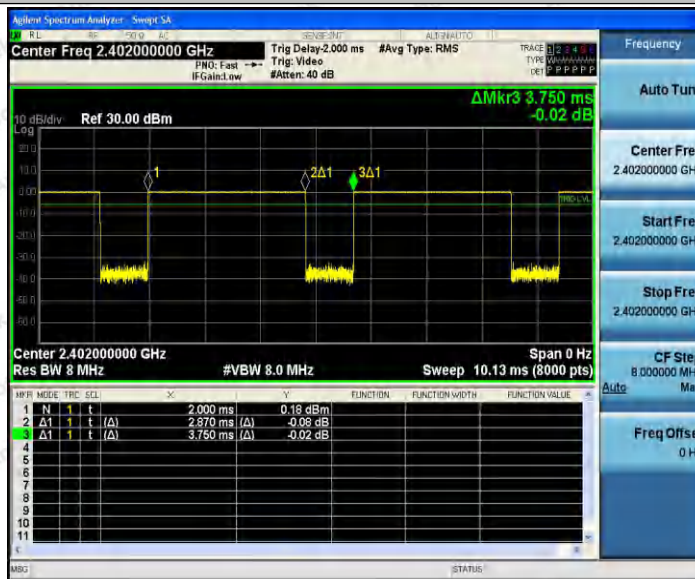
Appendix I: Duty Cycle

Test Result

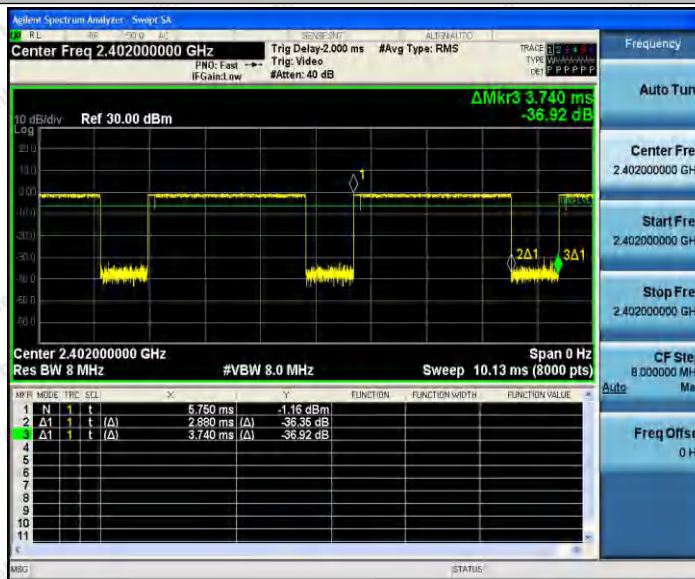
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

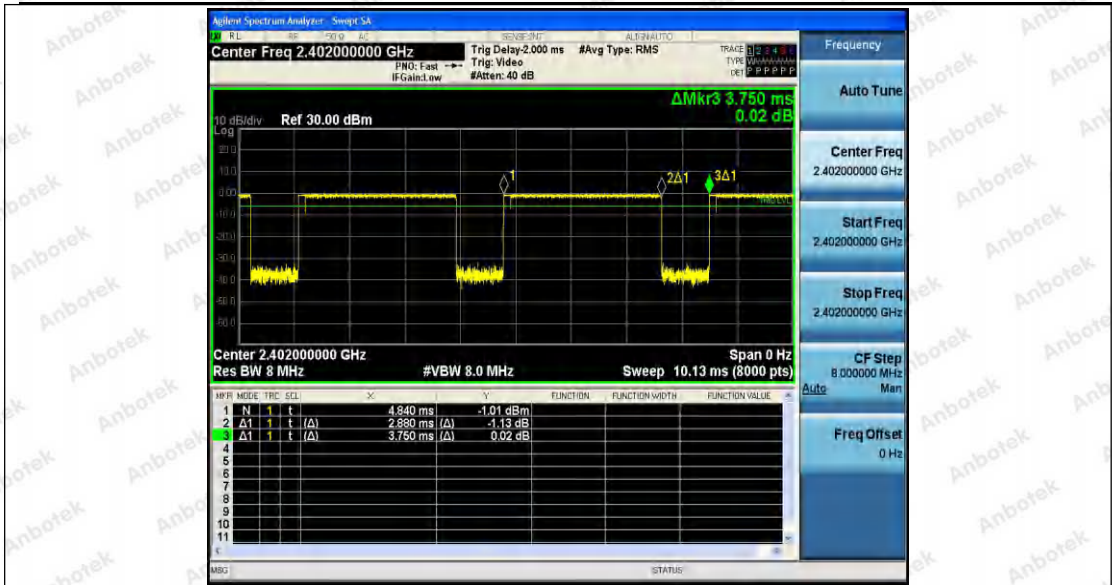
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---