

Appendix Test Data

Report No.:	18220WC10222501	Test Date:	2021.10.13
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
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	0.948	2440.532	2441.480	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.320	2401.331	2402.651	---	PASS
		2441	1.344	2440.325	2441.669	---	PASS
		2480	1.314	2479.334	2480.648	---	PASS
3DH5	Ant1	2402	1.266	2401.346	2402.612	---	PASS
		2441	1.269	2440.349	2441.618	---	PASS
		2480	1.272	2479.349	2480.621	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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	0.89919	2401.54 6	2402.446	---	PASS
		2441	0.89006	2440.55 1	2441.441	---	PASS
		2480	0.88975	2479.55 0	2480.440	---	PASS
2DH5	Ant1	2402	1.2014	2401.39 5	2402.597	---	PASS
		2441	1.1926	2440.39 8	2441.590	---	PASS
		2480	1.1859	2479.40 1	2480.587	---	PASS
3DH5	Ant1	2402	1.2102	2401.38 2	2402.592	---	PASS
		2441	1.1986	2440.38 9	2441.587	---	PASS
		2480	1.2012	2479.38 8	2480.589	---	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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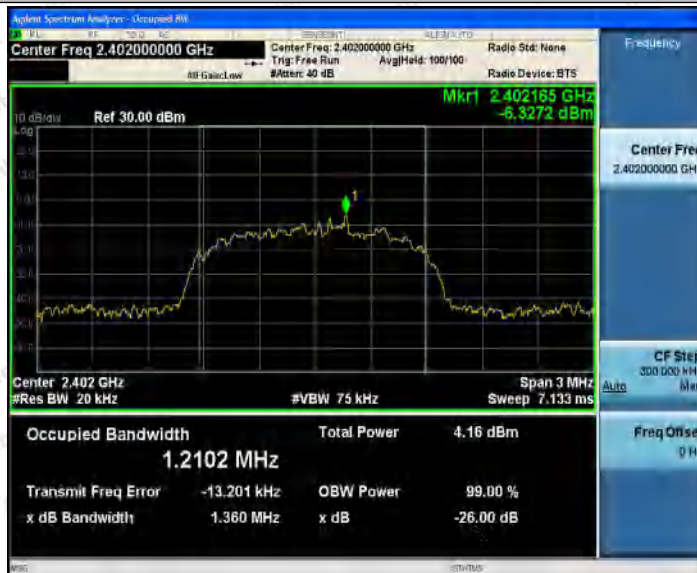
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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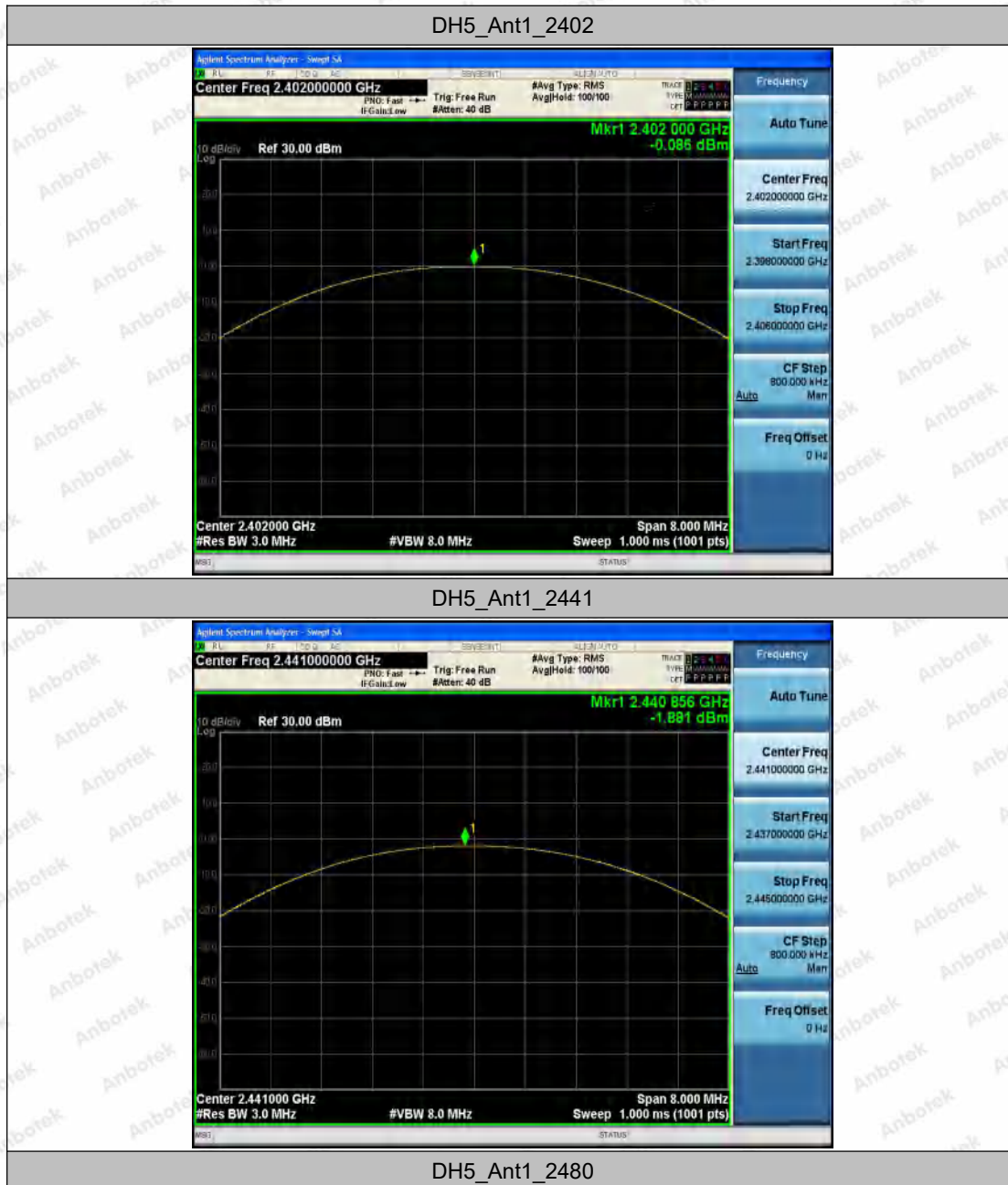
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.09	≤20.97	PASS
		2441	-1.88	≤20.97	PASS
		2480	-0.72	≤20.97	PASS
2DH5	Ant1	2402	-0.62	≤20.97	PASS
		2441	-2.62	≤20.97	PASS
		2480	-1.59	≤20.97	PASS
3DH5	Ant1	2402	-0.63	≤20.97	PASS
		2441	-2.7	≤20.97	PASS
		2480	-1.75	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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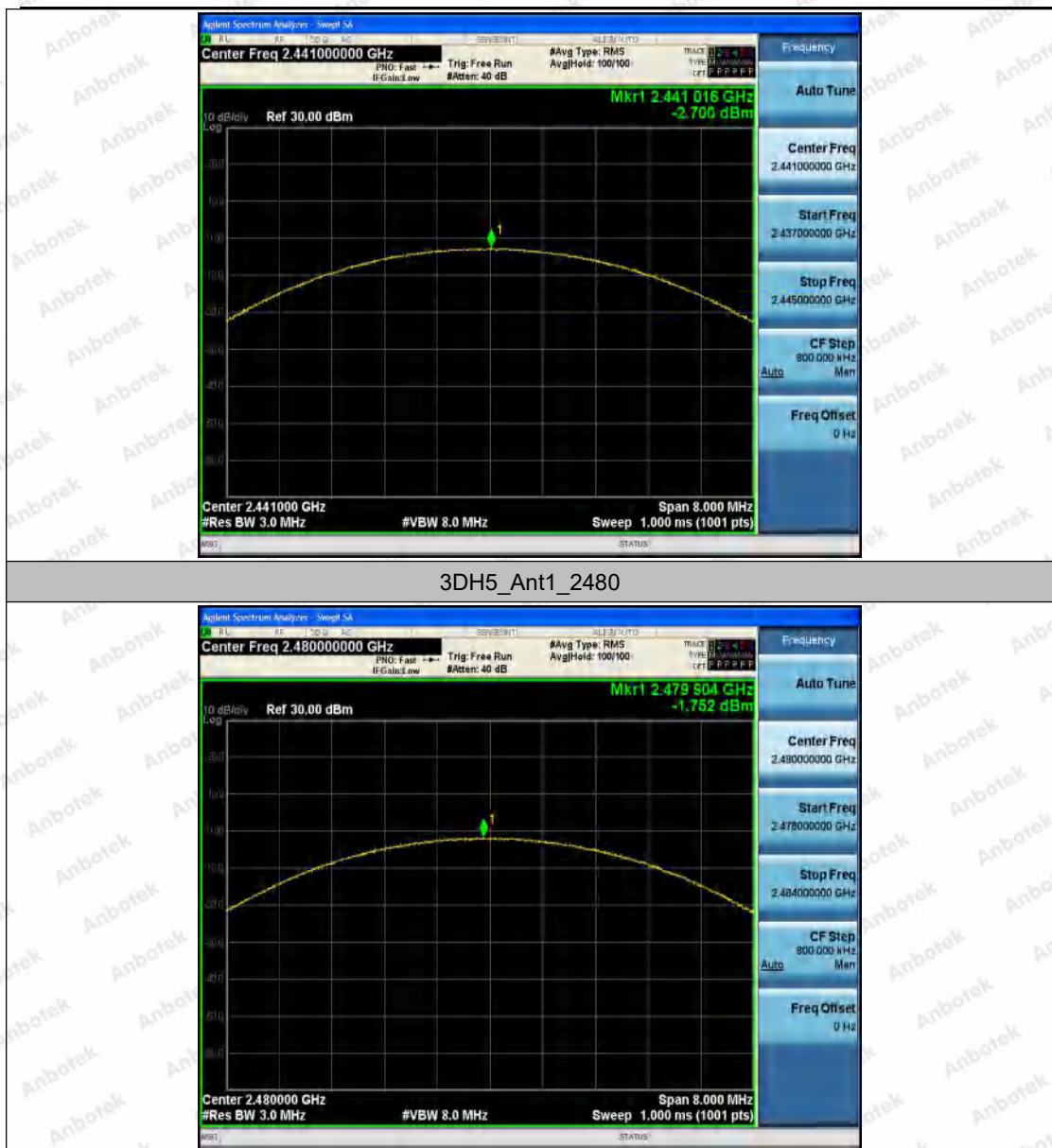
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.052	≥ 0.948	PASS
2DH5	Ant1	Hop	0.96	≥ 0.896	PASS
3DH5	Ant1	Hop	1.29	≥ 1.272	PASS

Test Graphs





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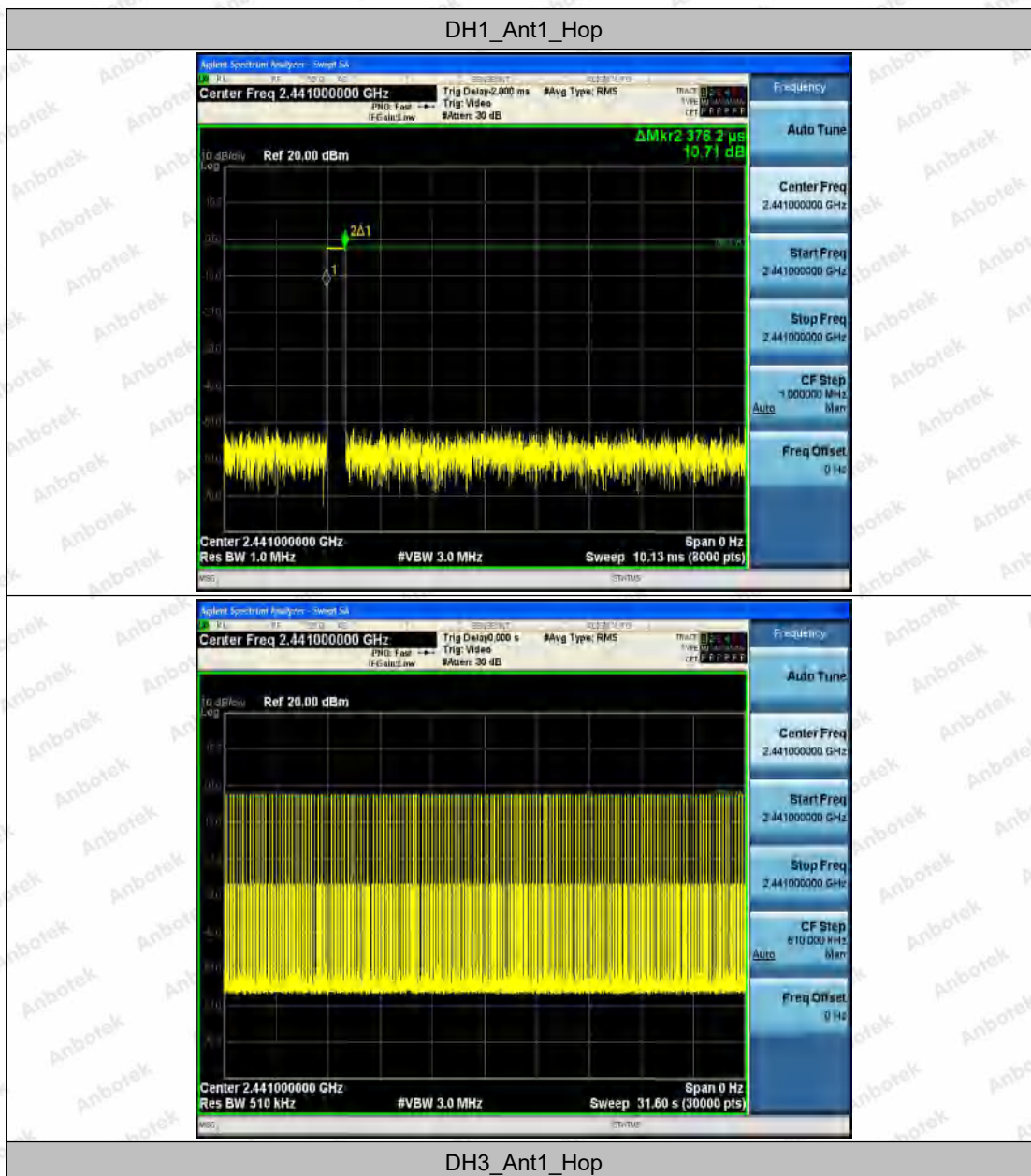
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	312	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	158	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
3DH1	Ant1	Hop	0.39	313	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.89	104	0.3	≤0.4	PASS

Test Graphs



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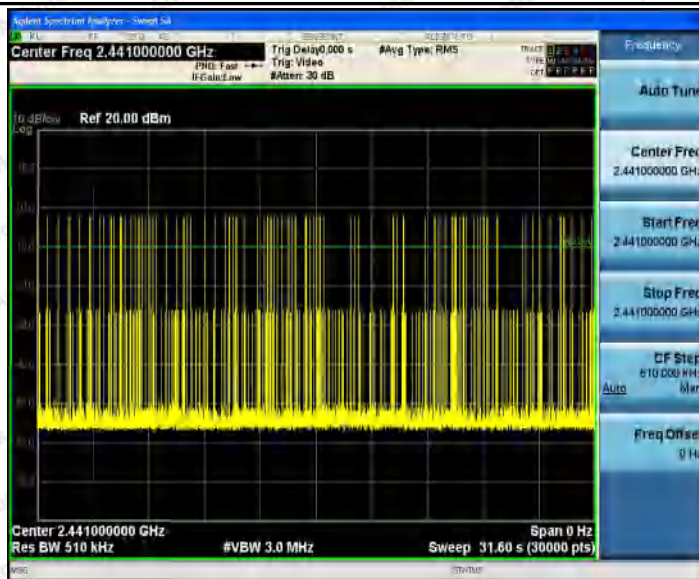


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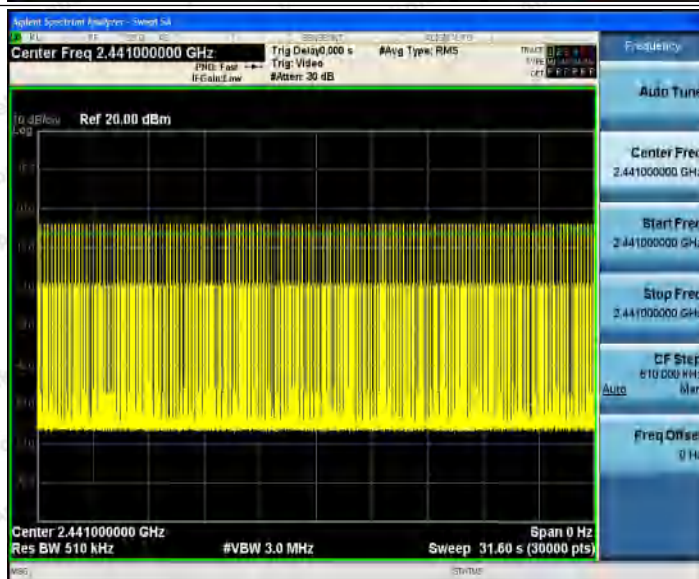
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2DH1_Ant1_Hop



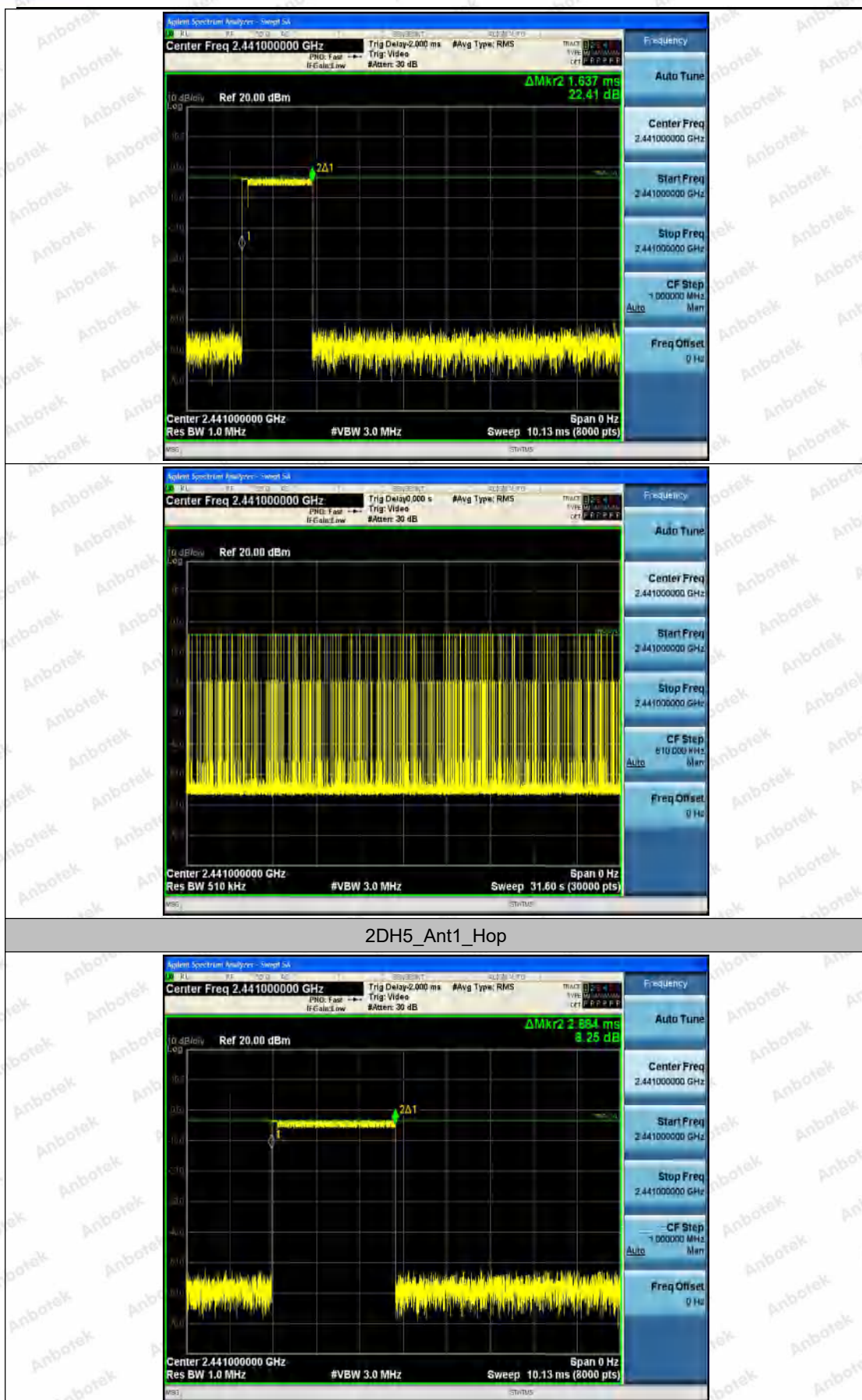
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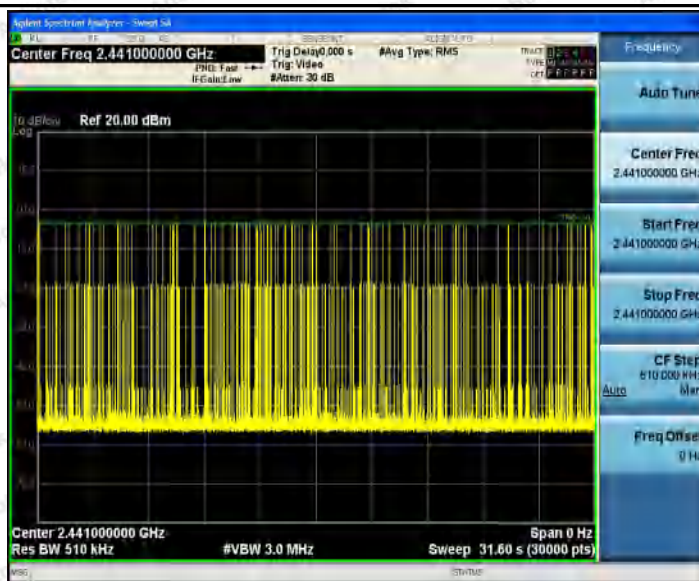


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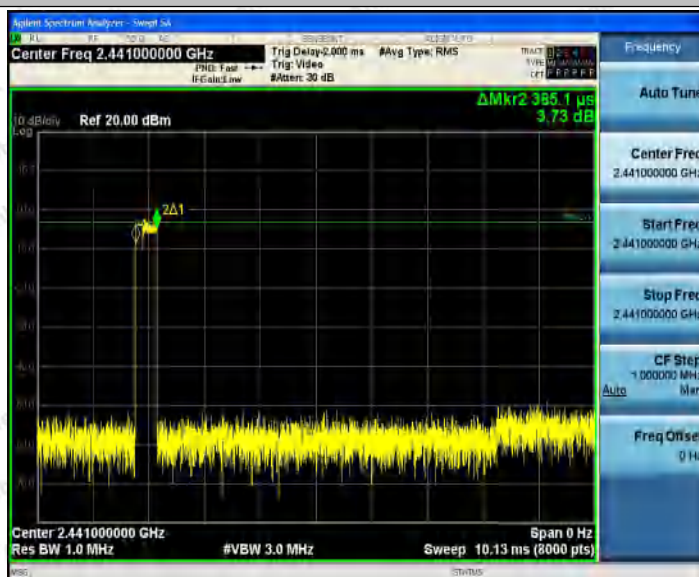
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3DH1_Ant1_Hop



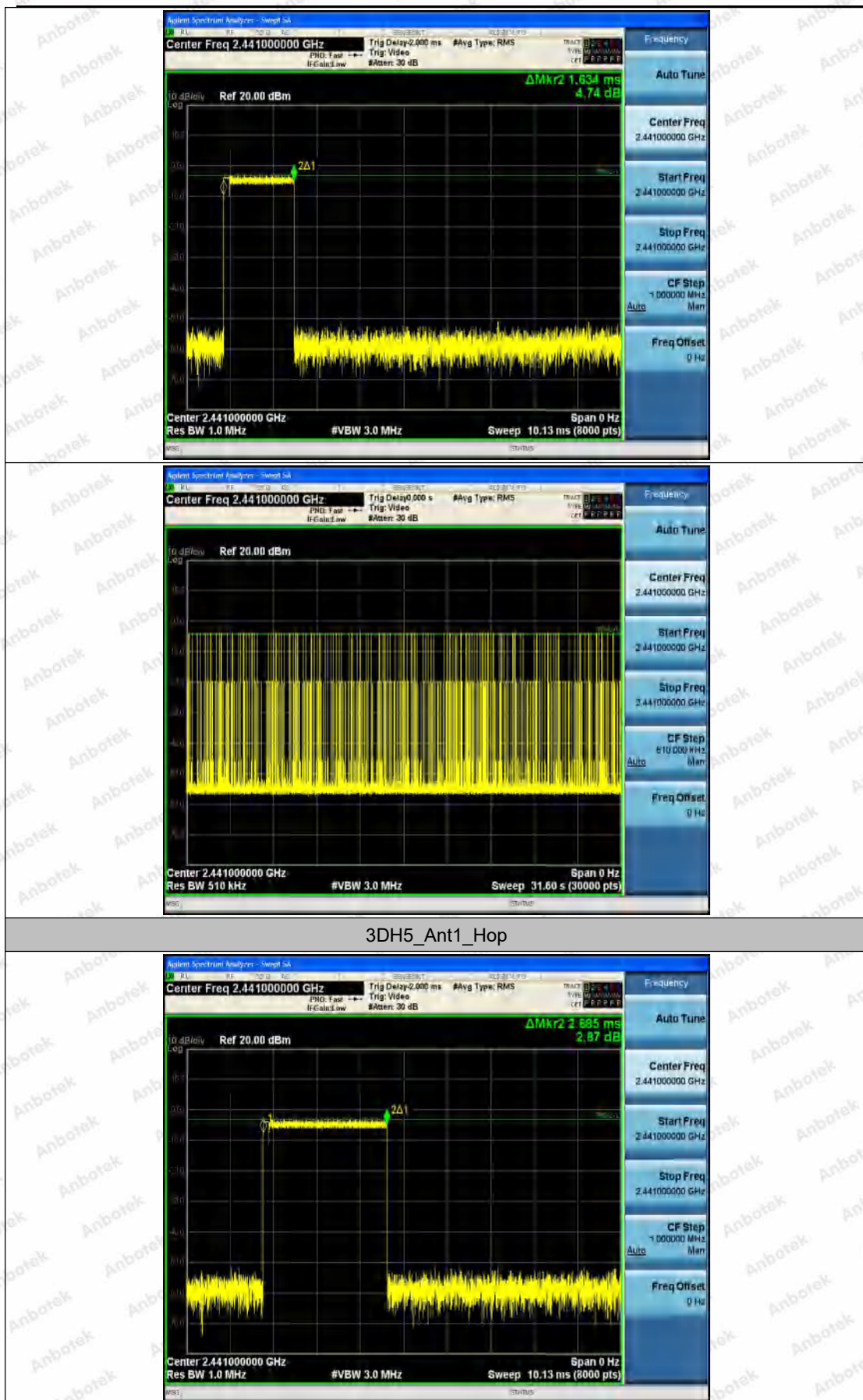
3DH3_Ant1_Hop

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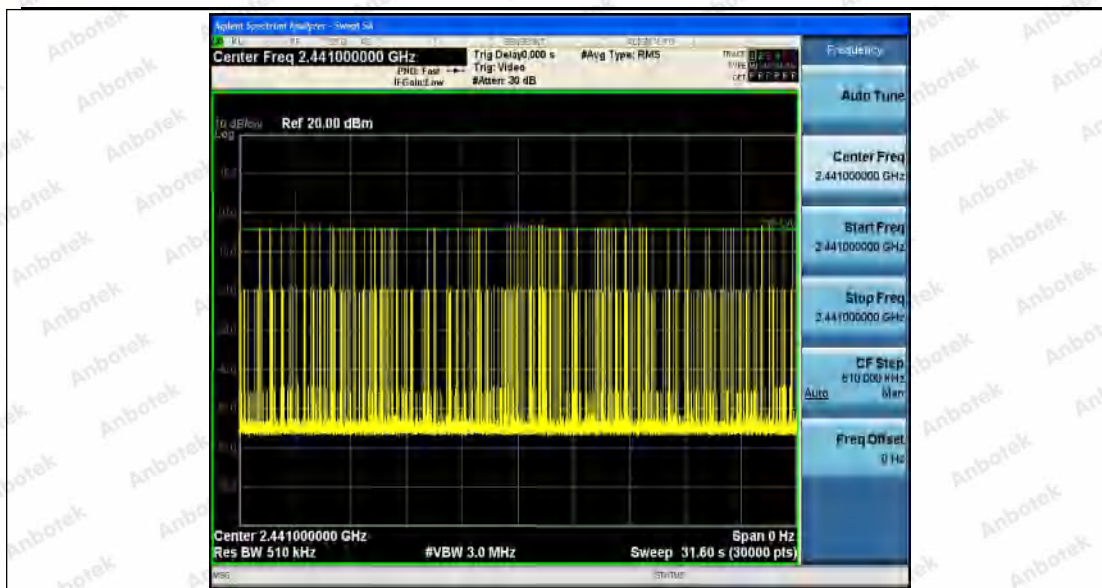


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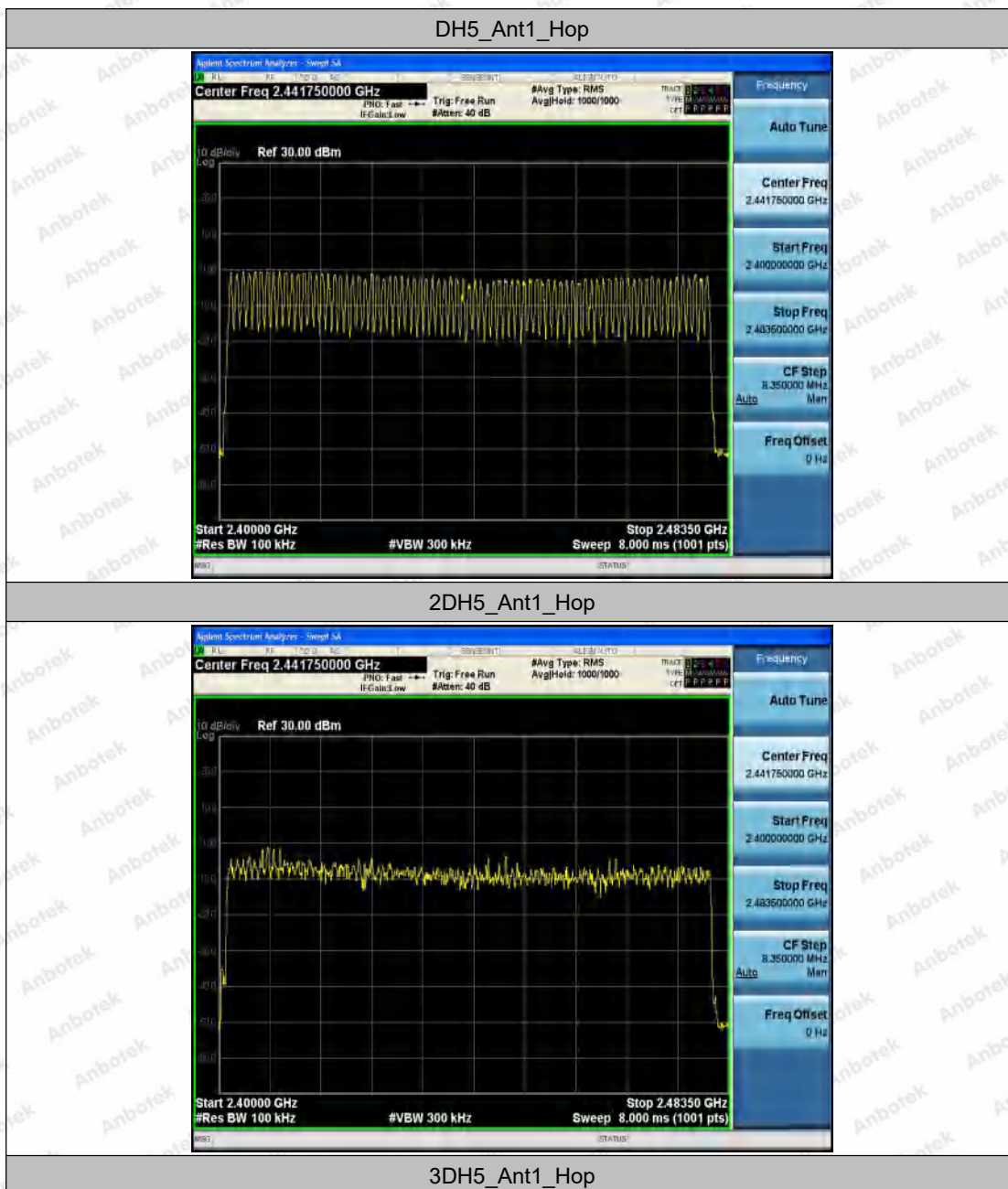
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Appendix F: Number of hopping channels

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

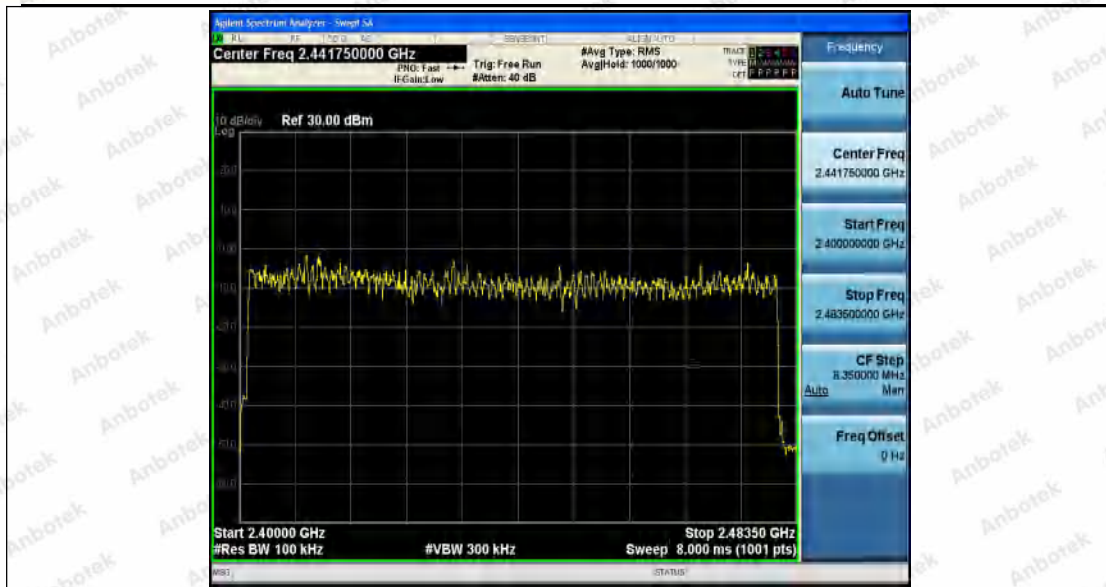


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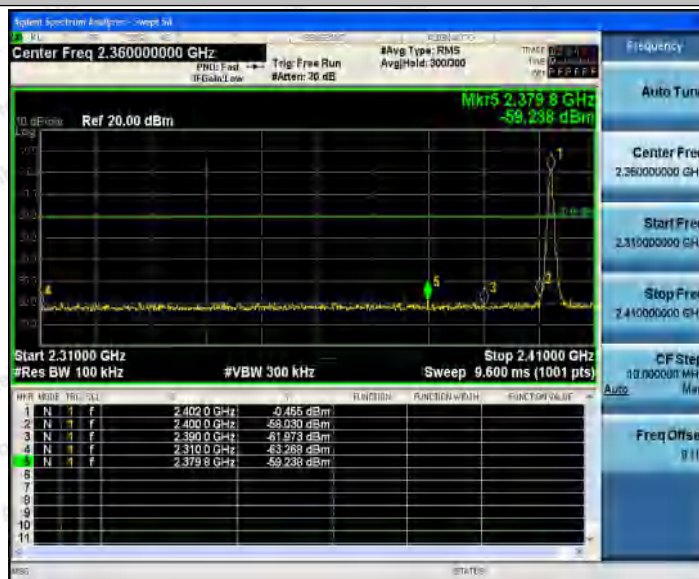
Appendix G: Band edge measurements

Test Result

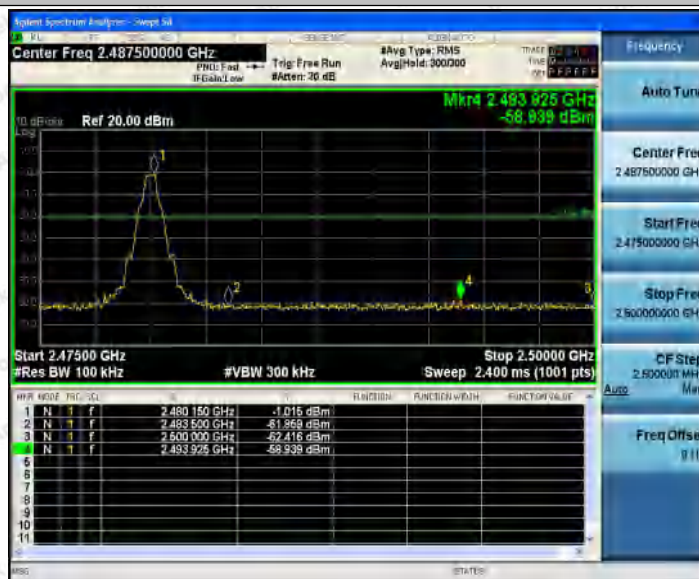
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.46	-59.24	≤-20.46	PASS
		High	2480	-1.02	-58.94	≤-21.02	PASS
		Low	Hop	-0.40	-58.92	≤-20.4	PASS
		High	Hop	-2.05	-62.24	≤-22.05	PASS
2DH5	Ant1	Low	2402	-1.44	-56.46	≤-21.44	PASS
		High	2480	-2.61	-59.67	≤-22.61	PASS
		Low	Hop	-3.56	-53.98	≤-23.56	PASS
		High	Hop	-7.07	-61.18	≤-27.07	PASS
3DH5	Ant1	Low	2402	-2.15	-56.84	≤-22.15	PASS
		High	2480	-2.86	-59.04	≤-22.86	PASS
		Low	Hop	-4.63	-54.04	≤-24.63	PASS
		High	Hop	-5.90	-63.07	≤-25.9	PASS

Test Graphs

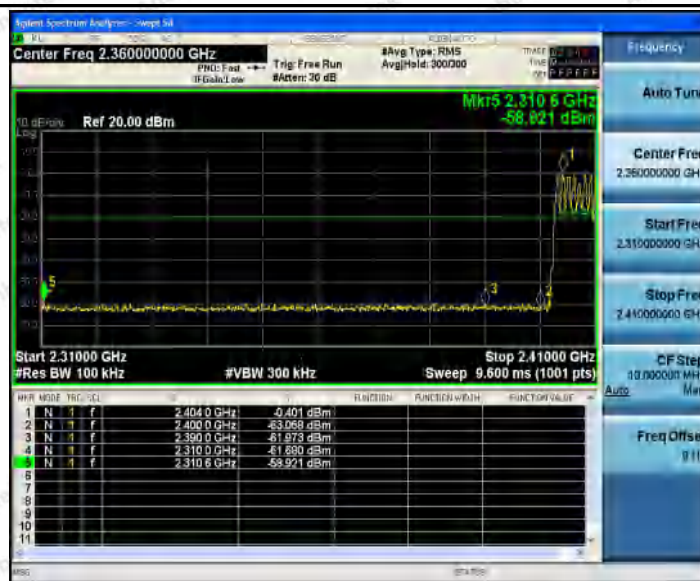
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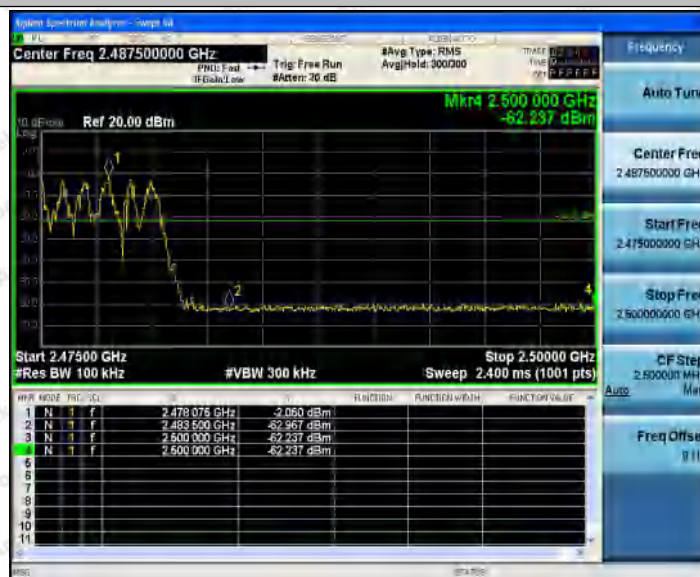
DH5_Ant1_High_2480



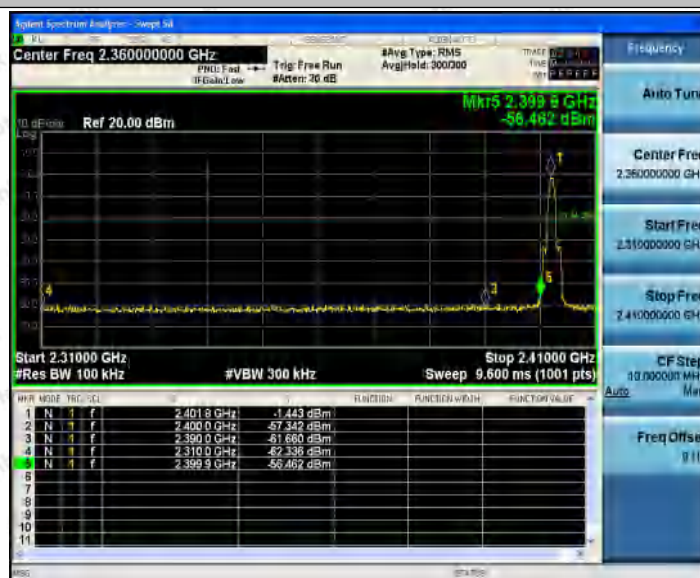
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



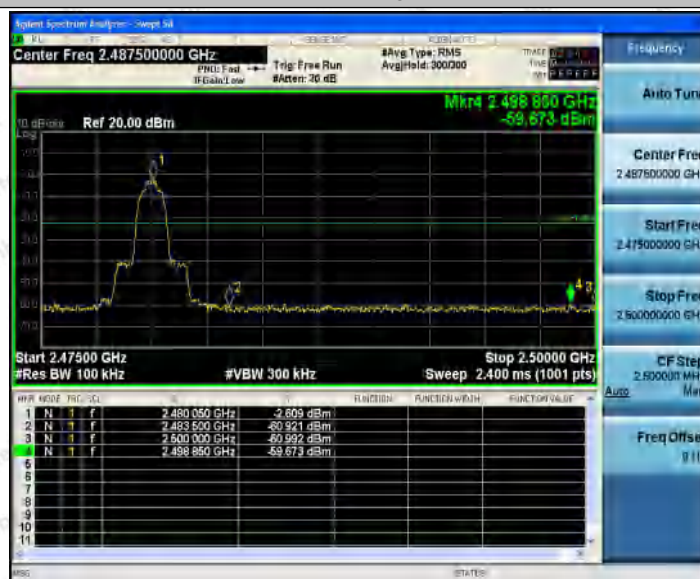
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2DH5_Ant1_High_2480



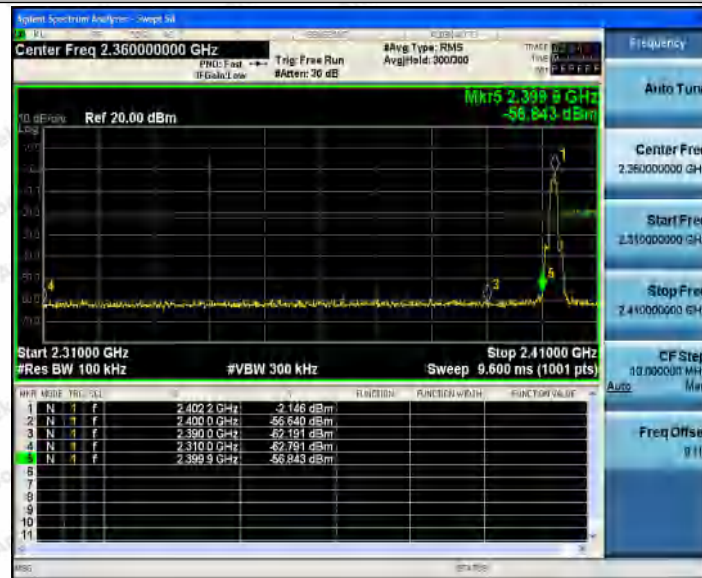
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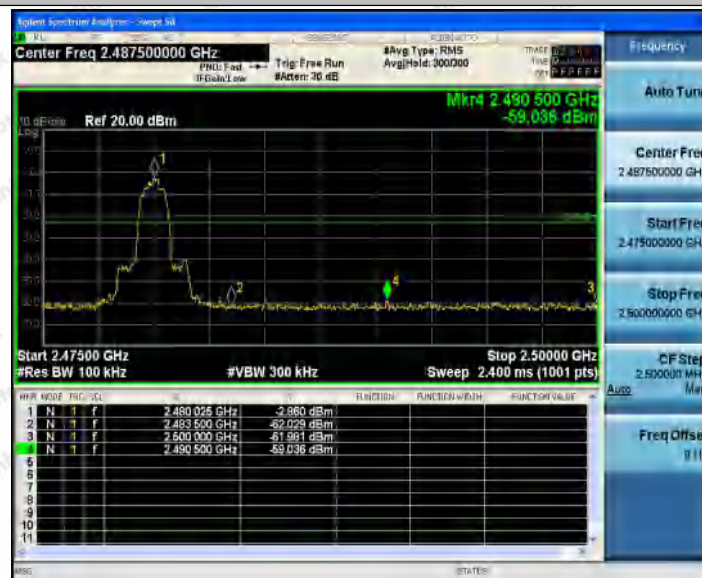
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



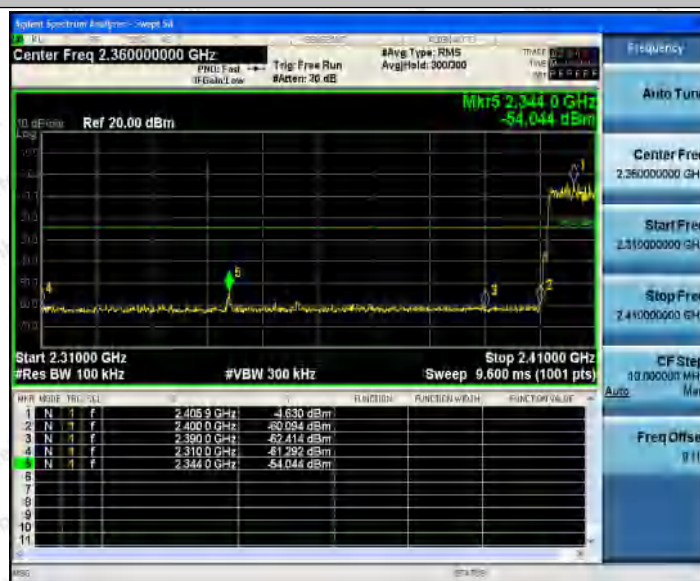
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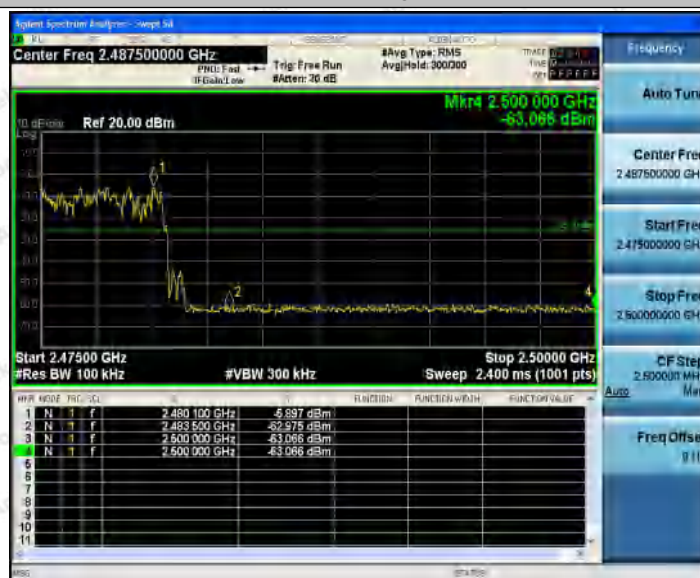
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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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	-0.88	-0.88	---	PASS
			30~1000	-0.88	-64.86	≤-20.88	PASS
			1000~26500	-0.88	-42.19	≤-20.88	PASS
		2441	Reference	-2.22	-2.22	---	PASS
			30~1000	-2.22	-69.47	≤-22.22	PASS
			1000~26500	-2.22	-45.4	≤-22.22	PASS
		2480	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-70.33	≤-21.63	PASS
			1000~26500	-1.63	-46.54	≤-21.63	PASS
2DH5	Ant1	2402	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-66.35	≤-21.75	PASS
			1000~26500	-1.75	-46.56	≤-21.75	PASS
		2441	Reference	-3.57	-3.57	---	PASS
			30~1000	-3.57	-70.05	≤-23.57	PASS
			1000~26500	-3.57	-46.58	≤-23.57	PASS
		2480	Reference	-3.61	-3.61	---	PASS
			30~1000	-3.61	-56.86	≤-23.61	PASS
			1000~26500	-3.61	-50.55	≤-23.61	PASS
3DH5	Ant1	2402	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-66.33	≤-22.25	PASS
			1000~26500	-2.25	-44.65	≤-22.25	PASS
		2441	Reference	-3.84	-3.84	---	PASS
			30~1000	-3.84	-69.41	≤-23.84	PASS
			1000~26500	-3.84	-49.09	≤-23.84	PASS
		2480	Reference	-2.88	-2.88	---	PASS
			30~1000	-2.88	-70.53	≤-22.88	PASS
			1000~26500	-2.88	-47.21	≤-22.88	PASS

Test Graphs

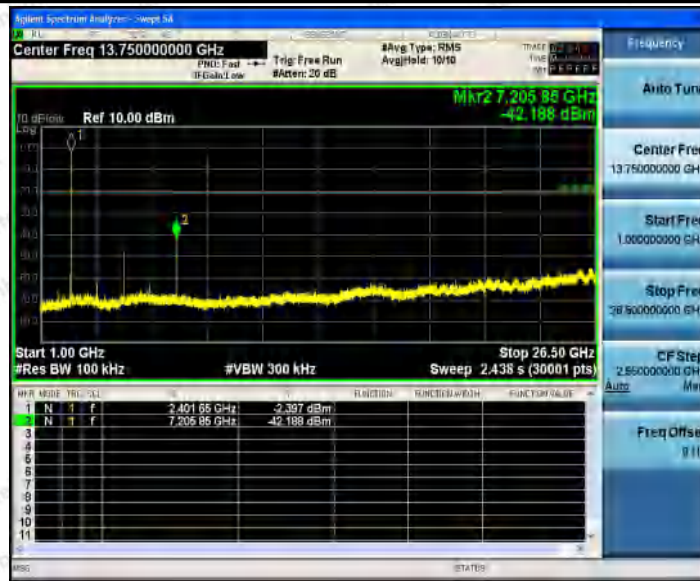
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DH5_Ant1_2402_30~1000



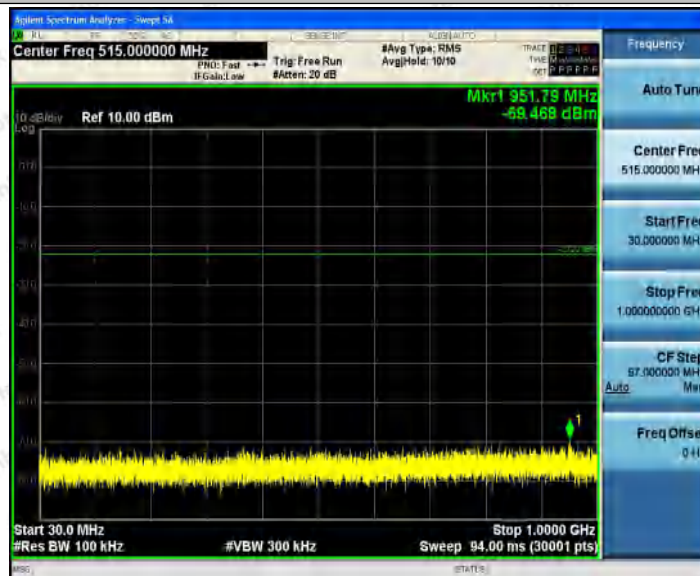
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



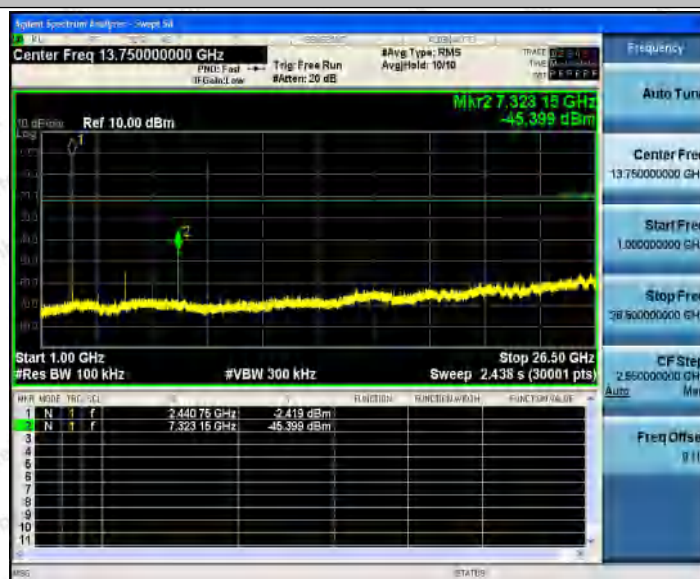
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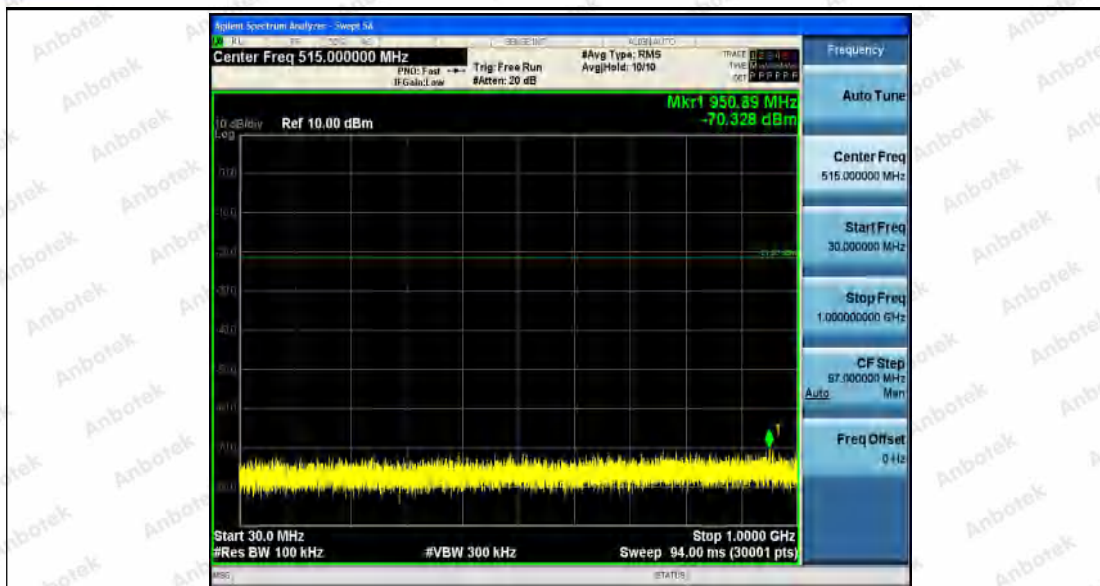
DH5_Ant1_2441_1000~26500



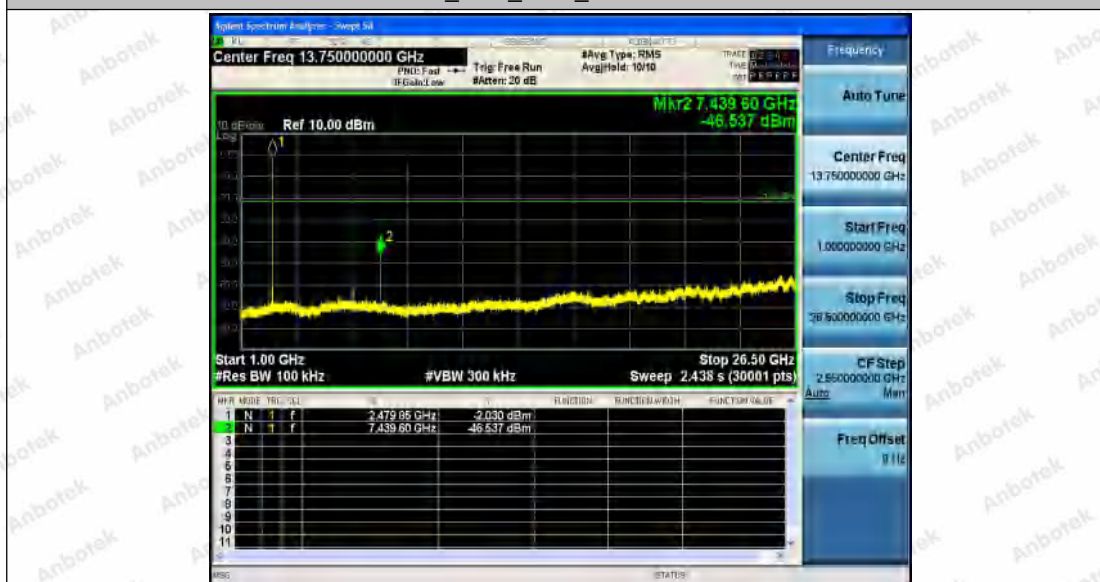
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



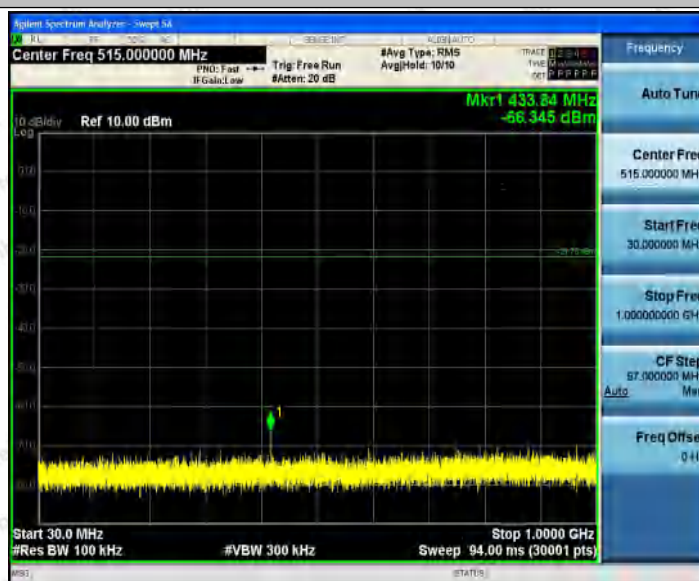
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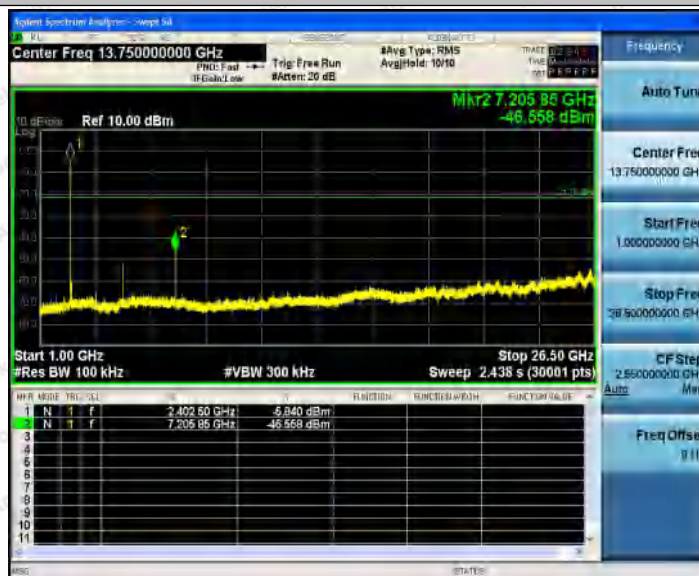
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2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



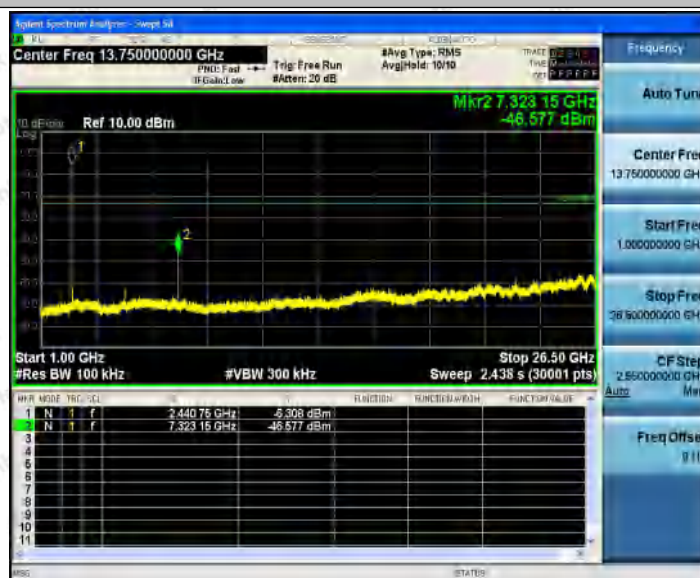
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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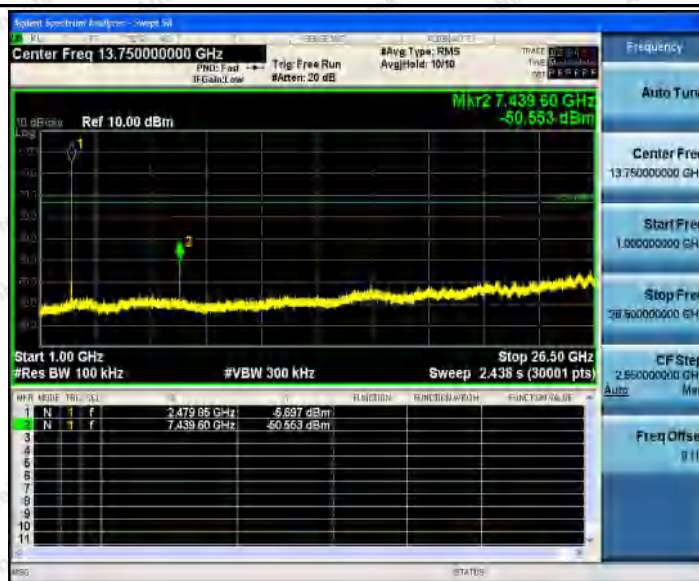
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



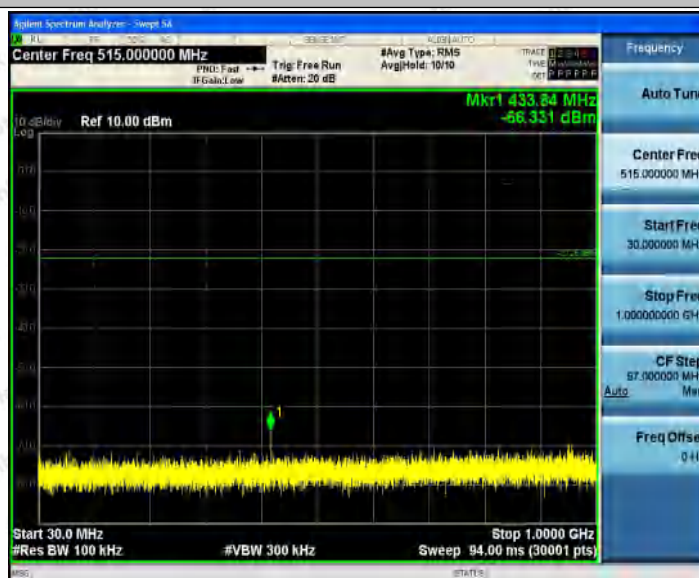
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



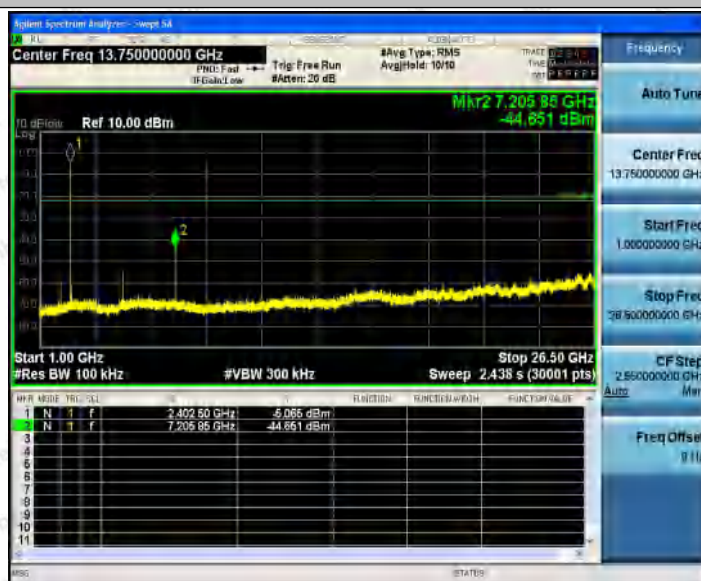
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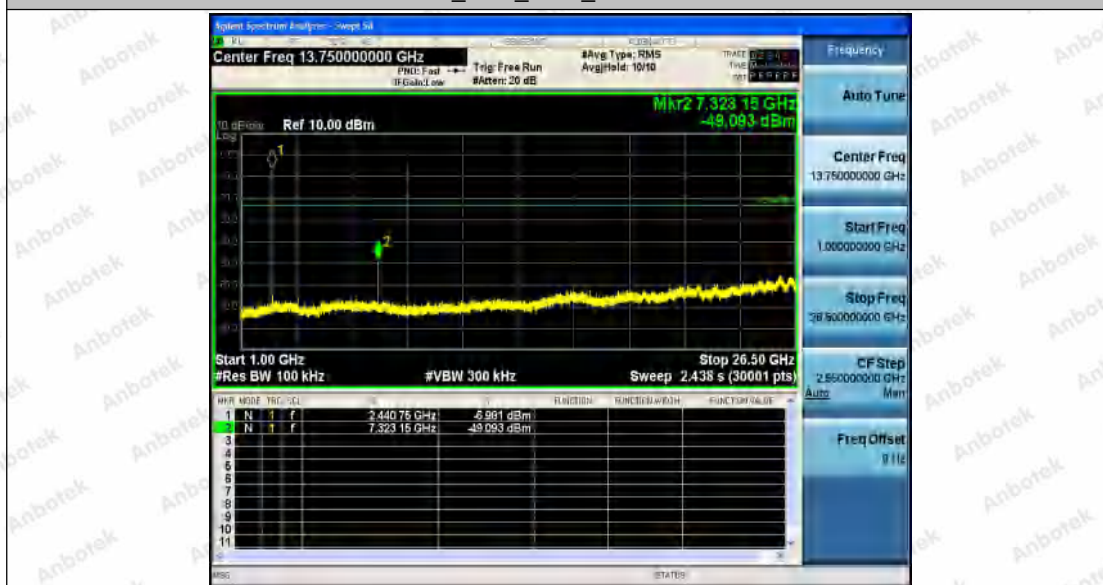
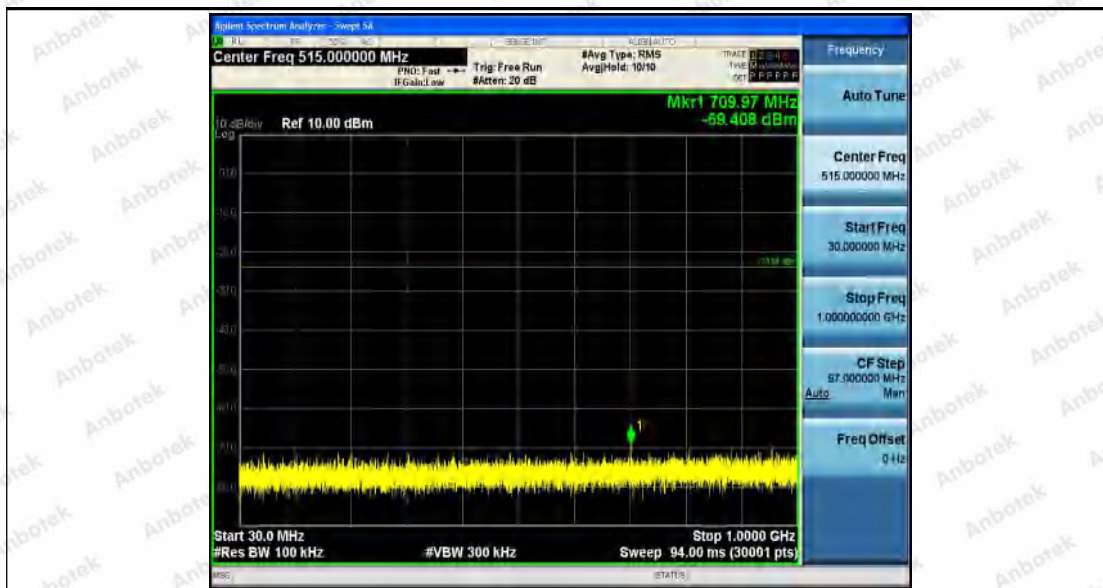
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

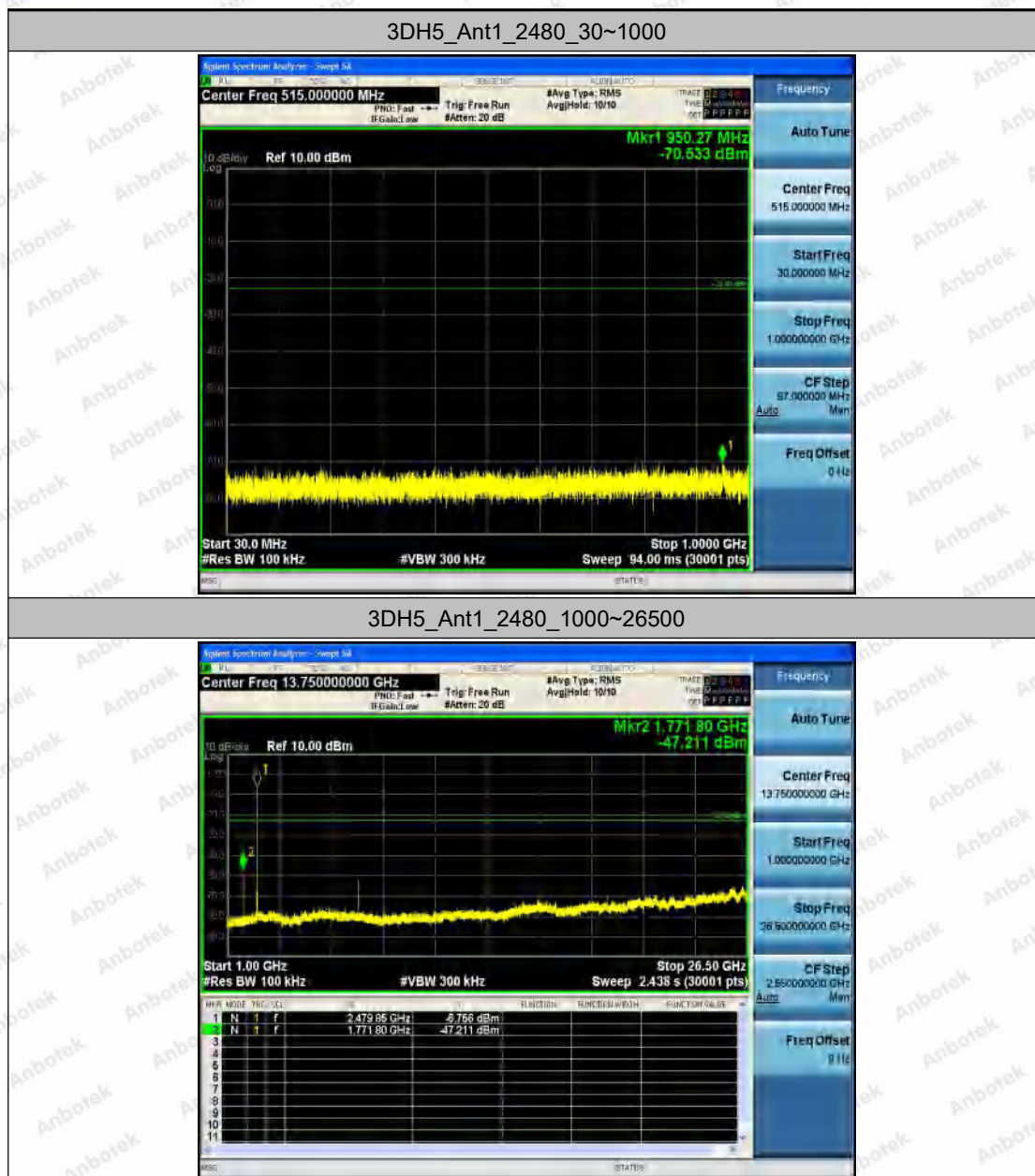


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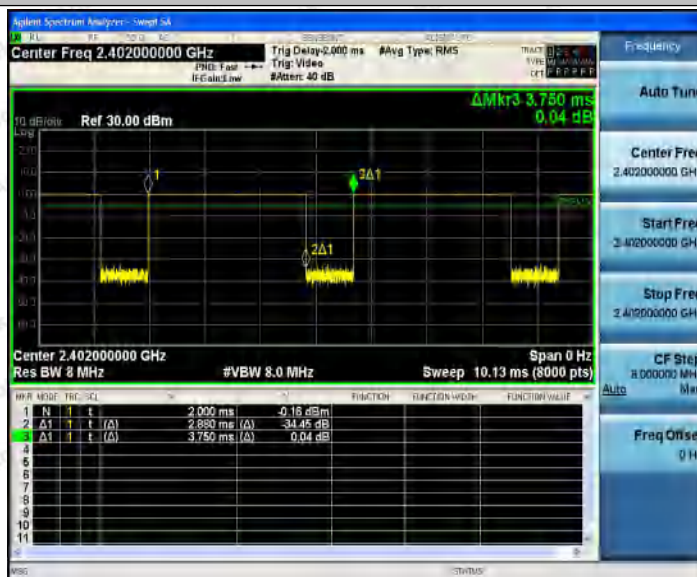
Appendix I: Duty Cycle

Test Result

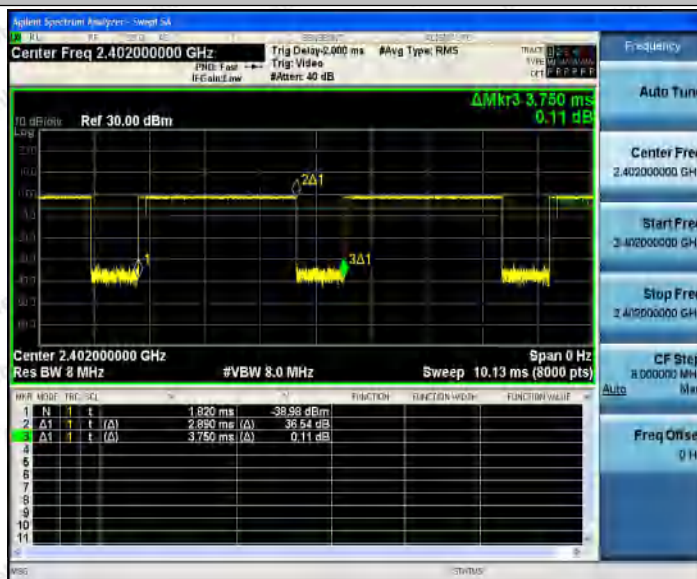
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

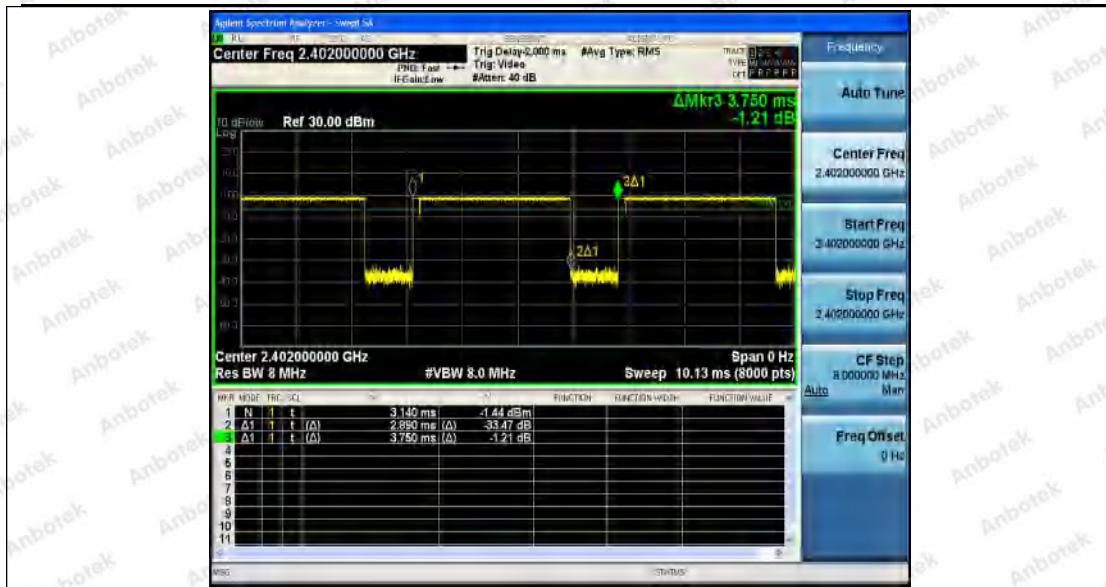
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---