

Appendix Test Data

Report No.:	18220WC10218401	Test Date:	2021.9.30
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	1.140	2401.424	2402.564	---	PASS
		2441	1.137	2440.427	2441.564	---	PASS
		2480	1.104	2479.433	2480.537	---	PASS
2DH5	Ant1	2402	1.356	2401.322	2402.678	---	PASS
		2441	1.365	2440.307	2441.672	---	PASS
		2480	1.368	2479.307	2480.675	---	PASS
3DH5	Ant1	2402	1.359	2401.313	2402.672	---	PASS
		2441	1.374	2440.307	2441.681	---	PASS
		2480	1.371	2479.319	2480.690	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

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3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

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Appendix B: Occupied Channel Bandwidth

Test Result

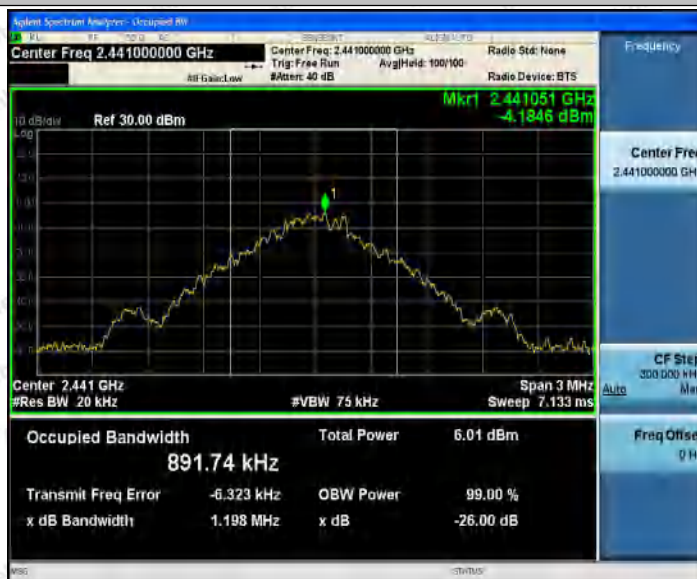
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88484	2401.55 2	2402.436	---	PASS
		2441	0.89174	2440.54 8	2441.440	---	PASS
		2480	0.89452	2479.54 7	2480.442	---	PASS
2DH5	Ant1	2402	1.1919	2401.39 7	2402.589	---	PASS
		2441	1.2004	2440.39 3	2441.593	---	PASS
		2480	1.1904	2479.39 8	2480.589	---	PASS
3DH5	Ant1	2402	1.2065	2401.38 4	2402.590	---	PASS
		2441	1.2010	2440.38 6	2441.587	---	PASS
		2480	1.1916	2479.39 5	2480.586	---	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



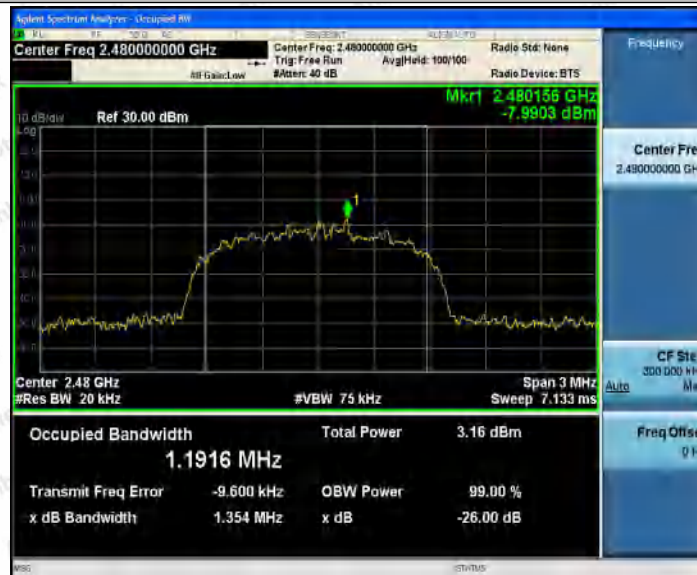
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

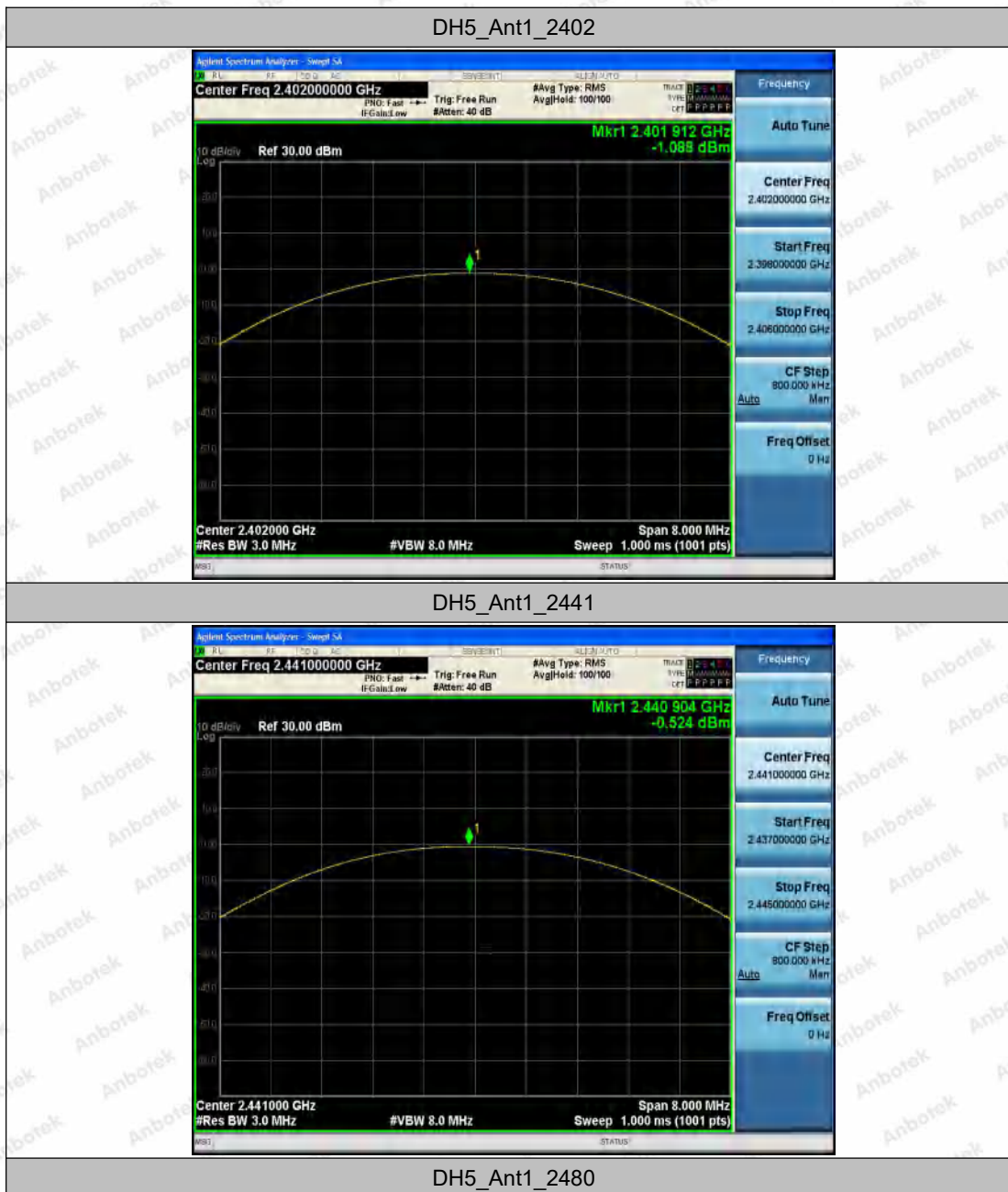


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.09	≤20.97	PASS
		2441	-0.52	≤20.97	PASS
		2480	-0.86	≤20.97	PASS
2DH5	Ant1	2402	-1.72	≤20.97	PASS
		2441	-1.16	≤20.97	PASS
		2480	-1.61	≤20.97	PASS
3DH5	Ant1	2402	-1.71	≤20.97	PASS
		2441	-1.11	≤20.97	PASS
		2480	-1.49	≤20.97	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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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥ 0.760	PASS
2DH5	Ant1	Hop	1.16	≥ 0.912	PASS
3DH5	Ant1	Hop	0.988	≥ 0.916	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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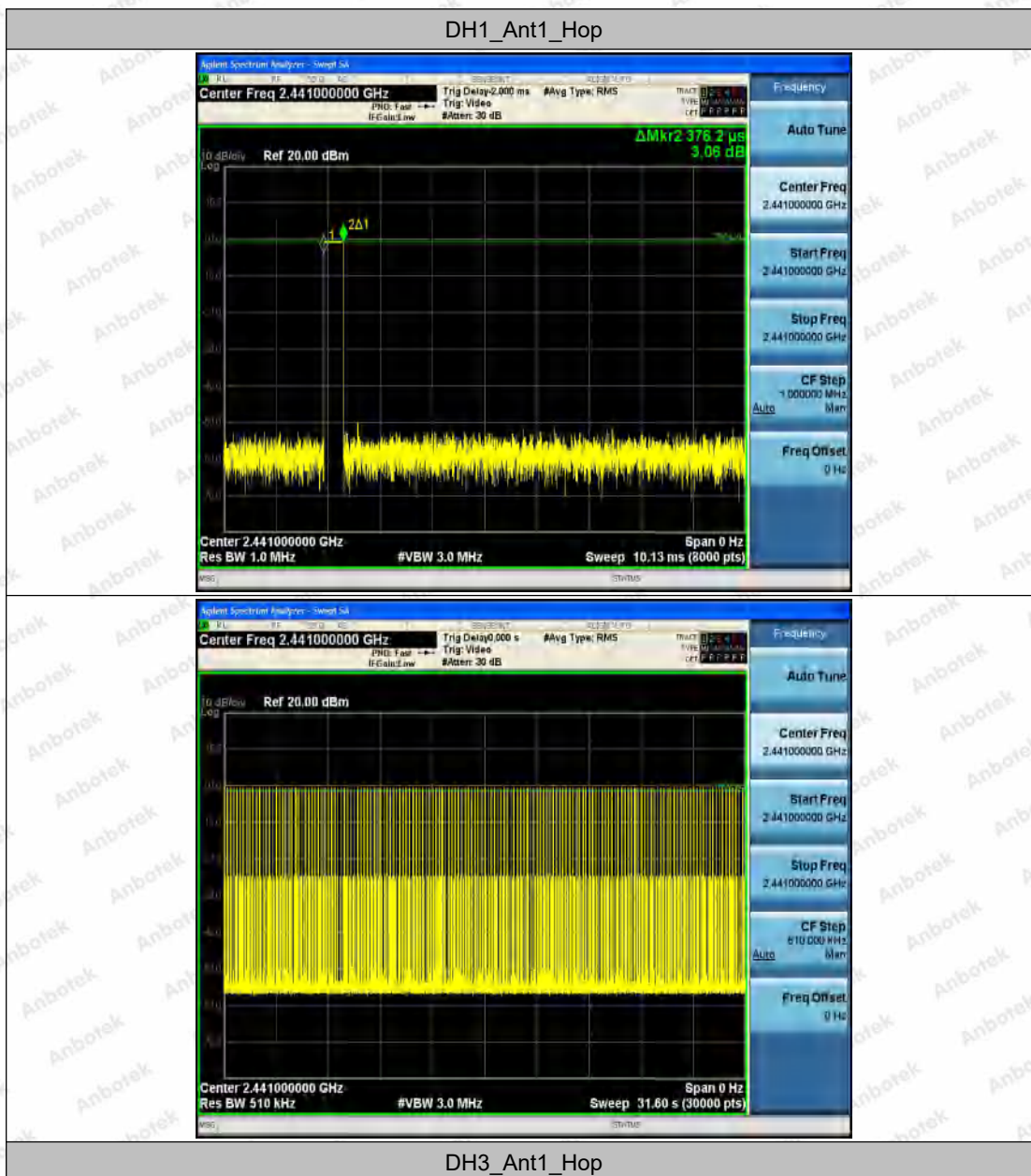
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	315	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	98	0.282	≤0.4	PASS
2DH1	Ant1	Hop	0.38	315	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	158	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	92	0.265	≤0.4	PASS

Test Graphs



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DH5_Ant1_Hop

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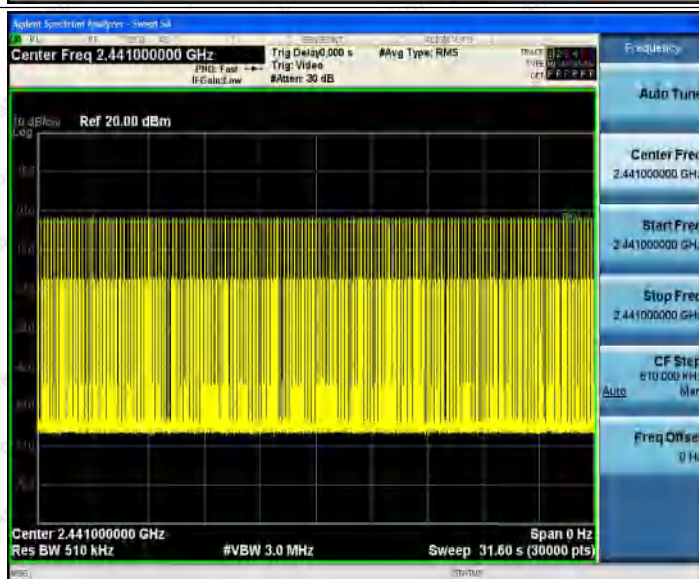
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2DH1_Ant1_Hop



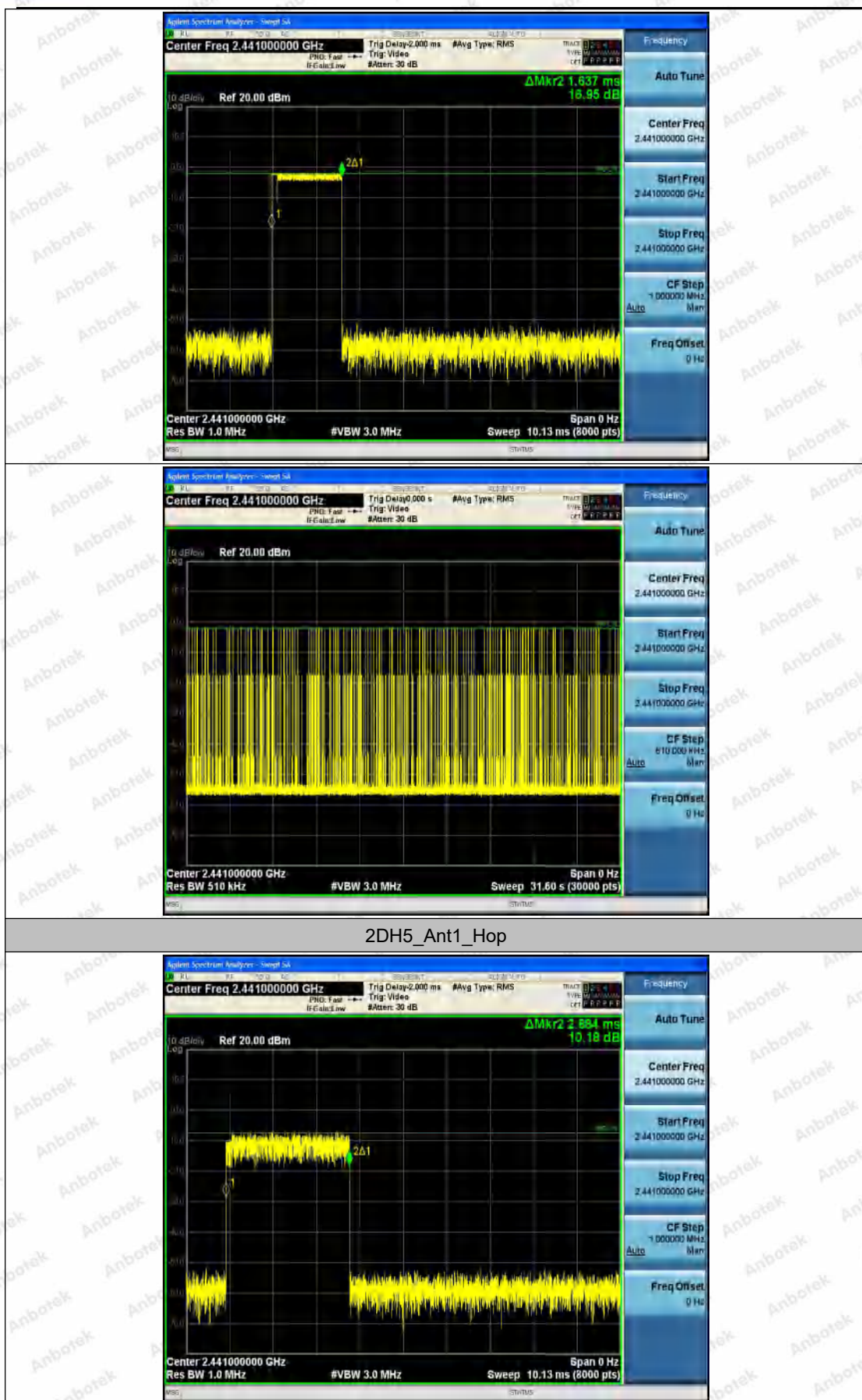
2DH3_Ant1_Hop

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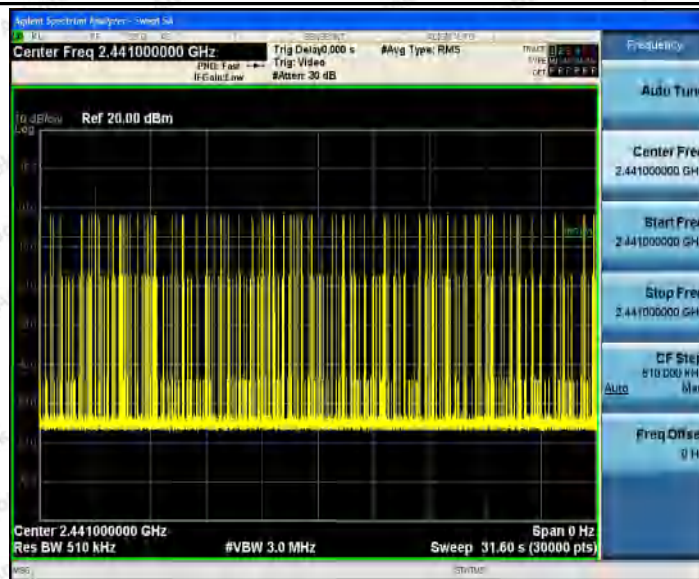


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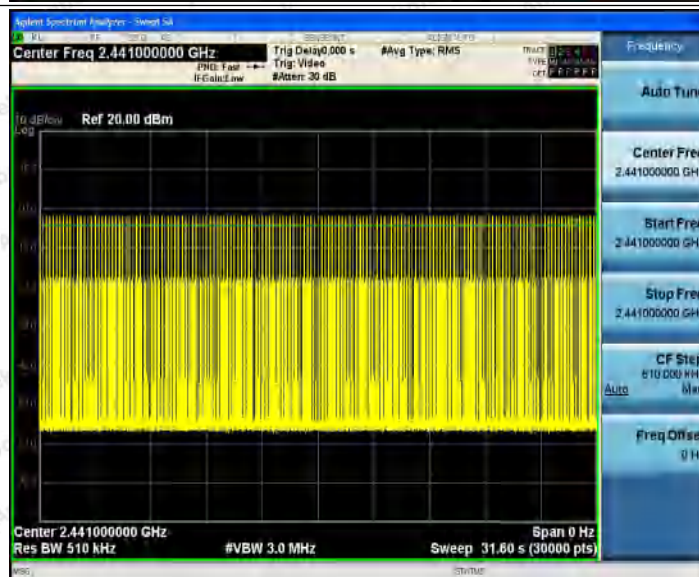
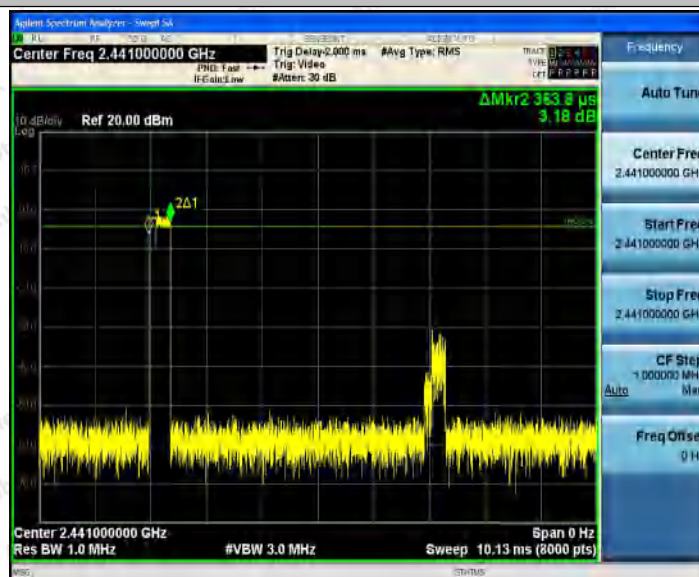
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3DH1_Ant1_Hop



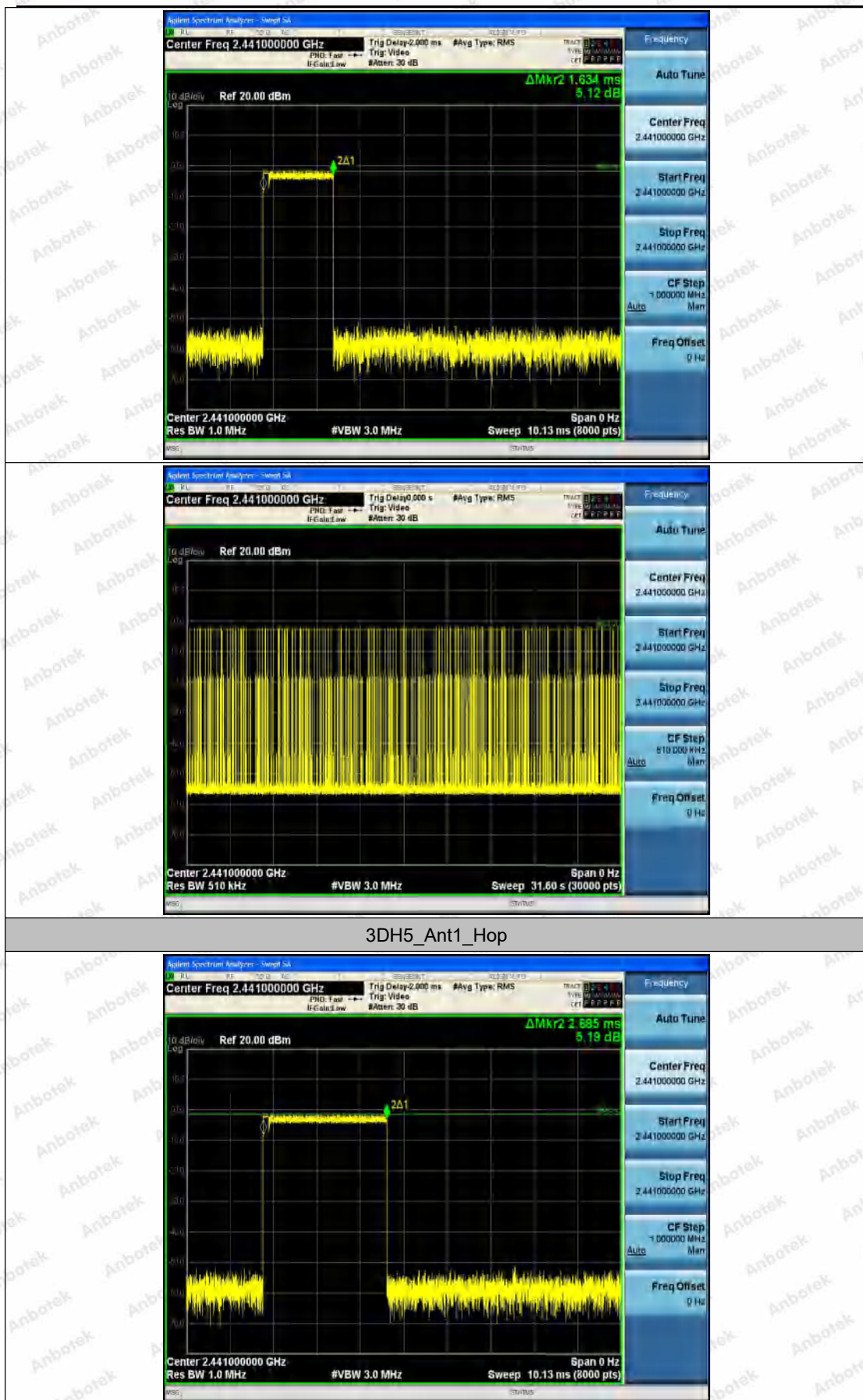
3DH3_Ant1_Hop

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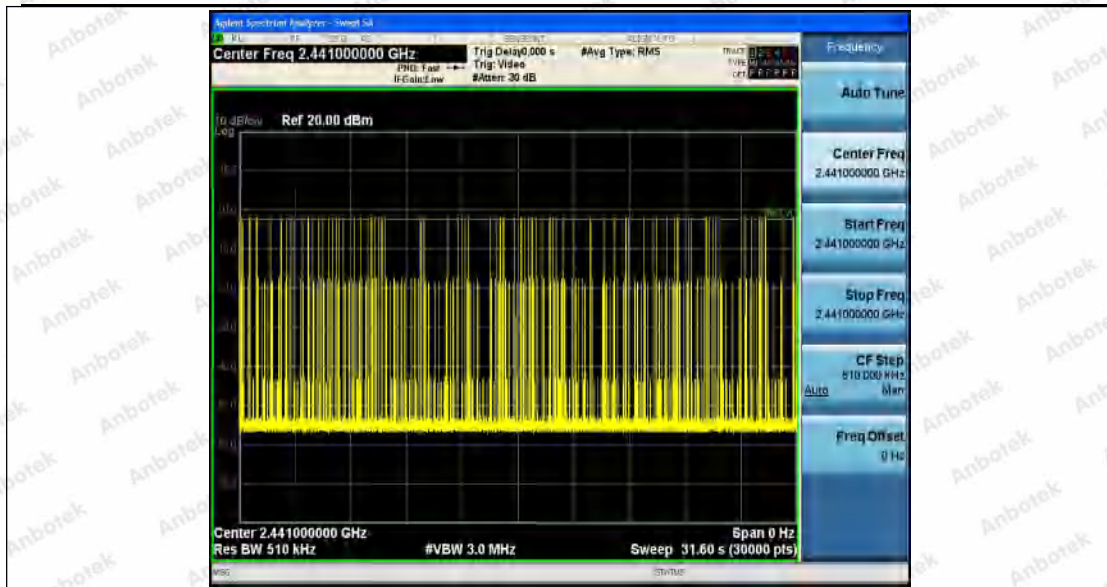
3DH5_Ant1_Hop

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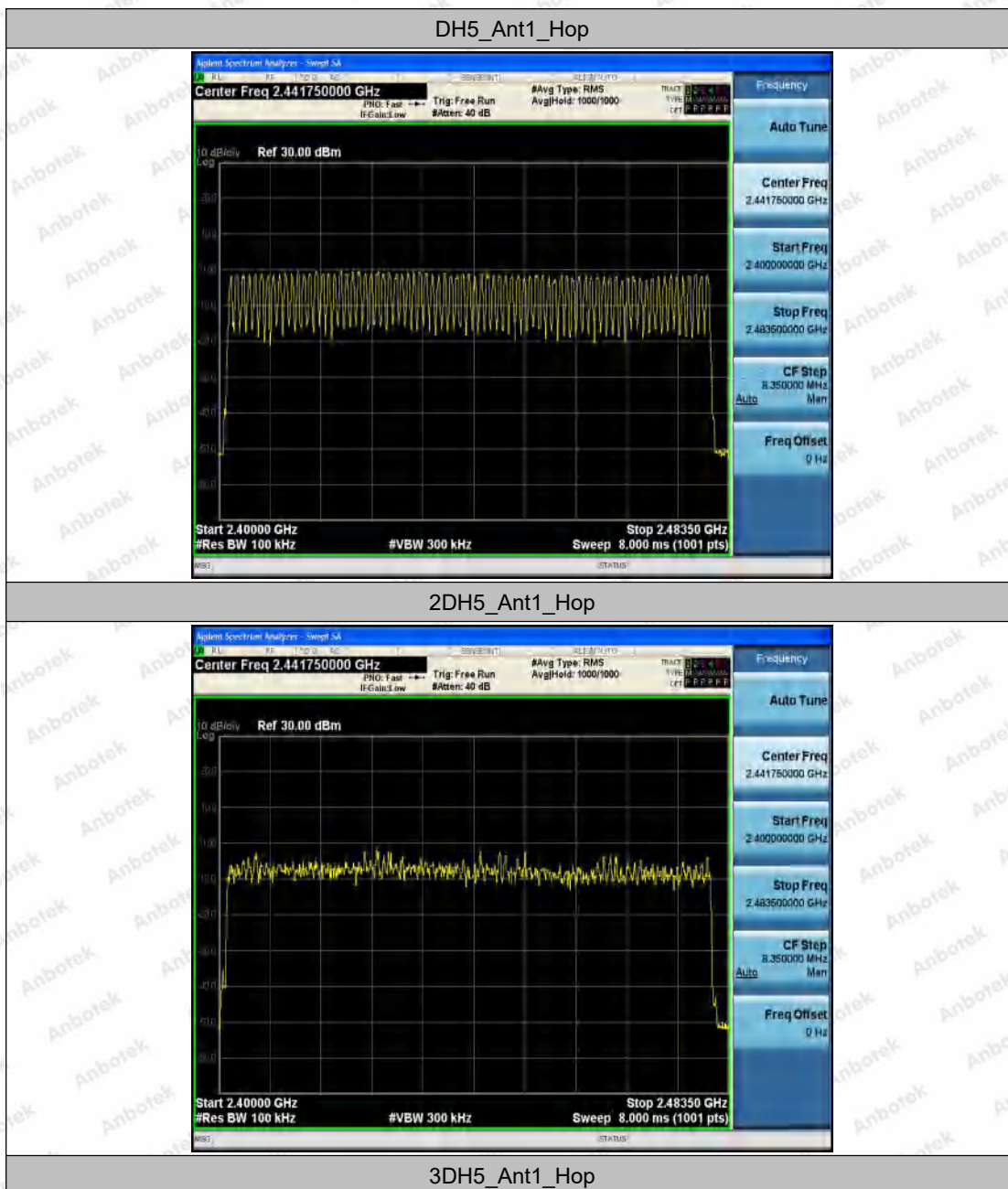
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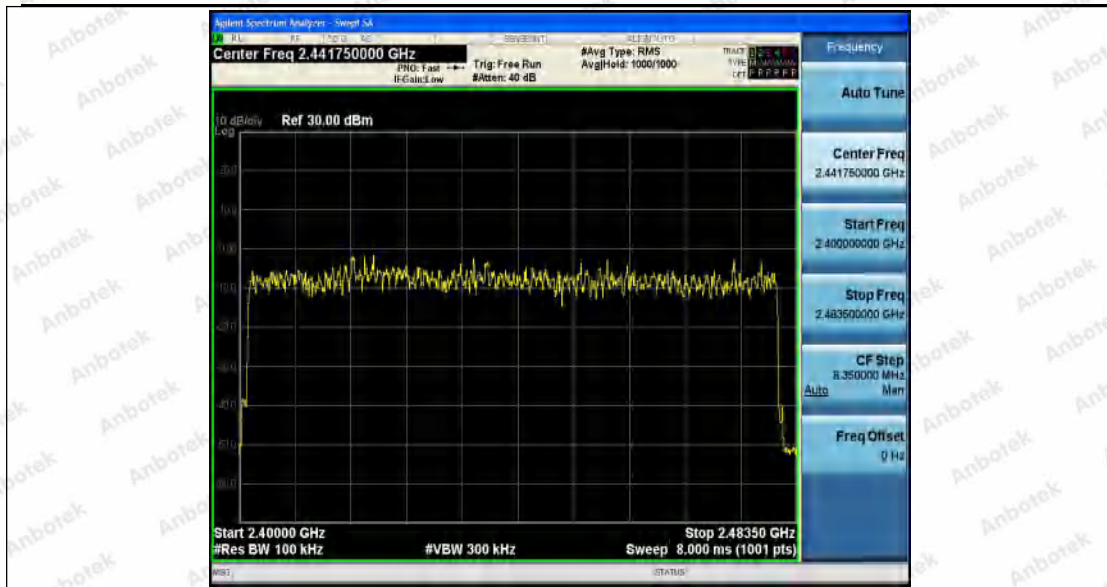
Appendix F: Number of hopping channels

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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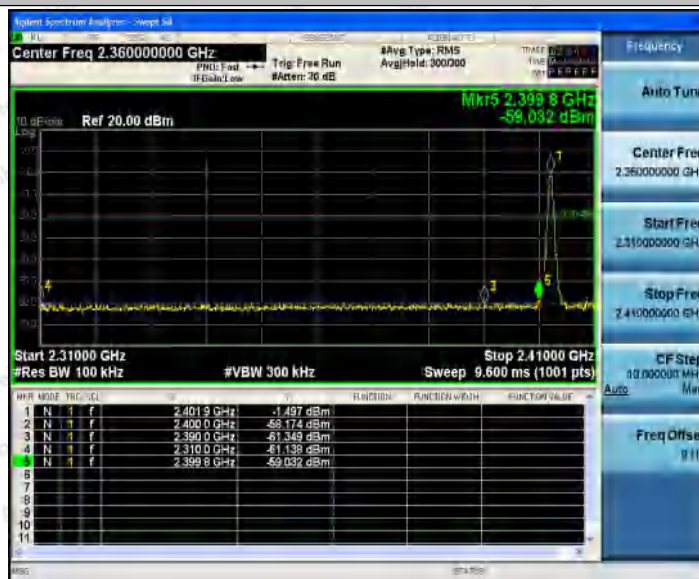
Appendix G: Band edge measurements

Test Result

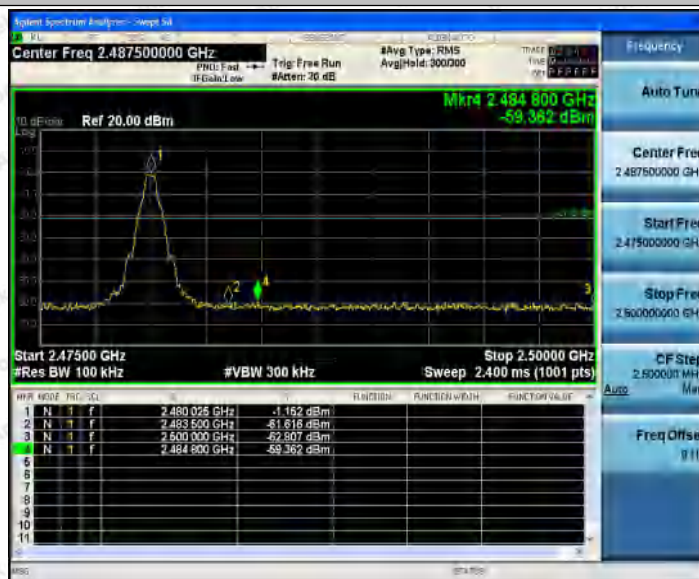
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.50	-59.03	≤-21.5	PASS
		High	2480	-1.15	-59.36	≤-21.15	PASS
		Low	Hop	-1.53	-59.87	≤-21.53	PASS
		High	Hop	-1.55	-62.62	≤-21.55	PASS
2DH5	Ant1	Low	2402	-2.58	-58.56	≤-22.58	PASS
		High	2480	-2.69	-59	≤-22.69	PASS
		Low	Hop	-3.31	-59.47	≤-23.31	PASS
		High	Hop	-5.56	-62.33	≤-25.56	PASS
3DH5	Ant1	Low	2402	-2.87	-56.67	≤-22.87	PASS
		High	2480	-3.17	-59.03	≤-23.17	PASS
		Low	Hop	-5.83	-59.25	≤-25.83	PASS
		High	Hop	-3.23	-60.38	≤-23.23	PASS

Test Graphs

DH5_Ant1_Low_2402



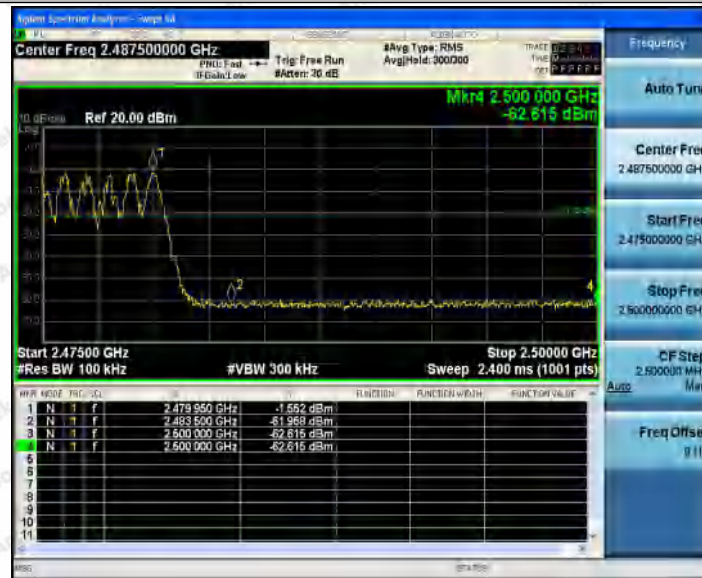
DH5_Ant1_High_2480



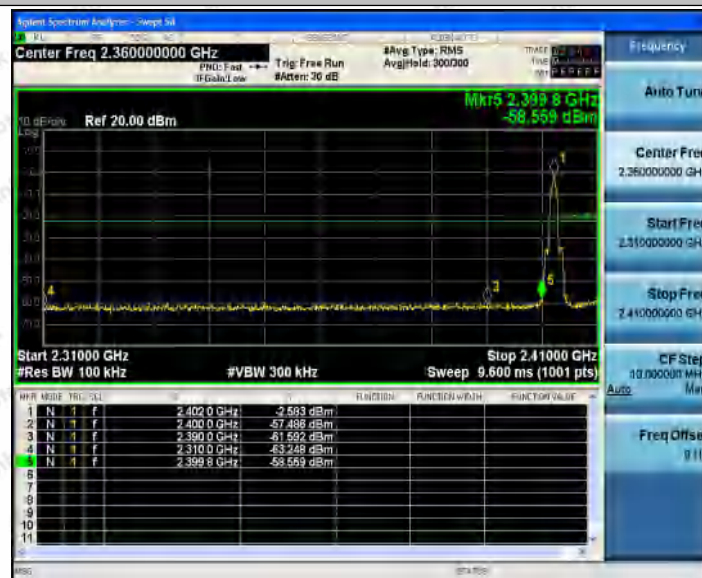
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



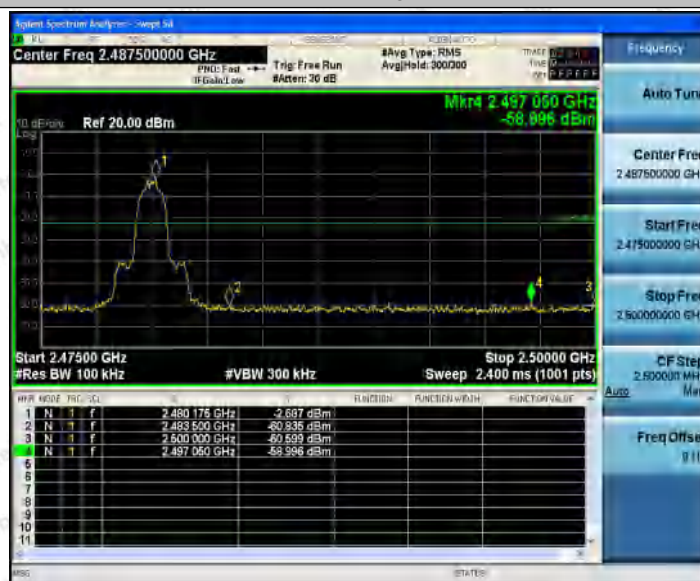
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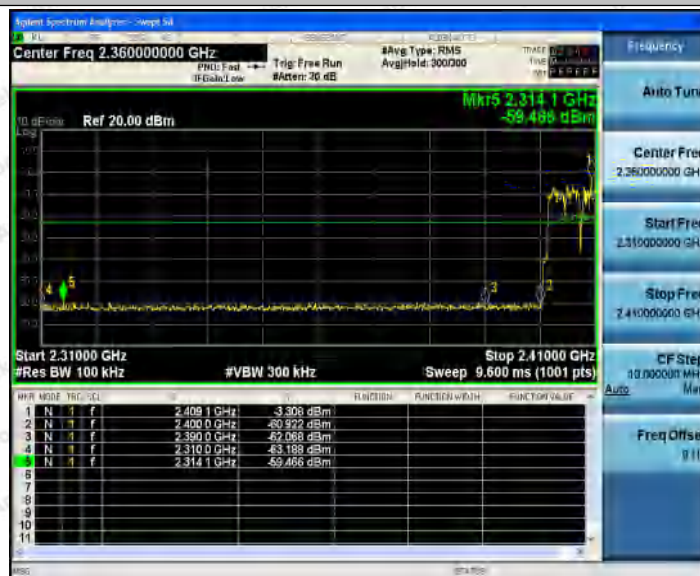
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2DH5_Ant1_High_2480



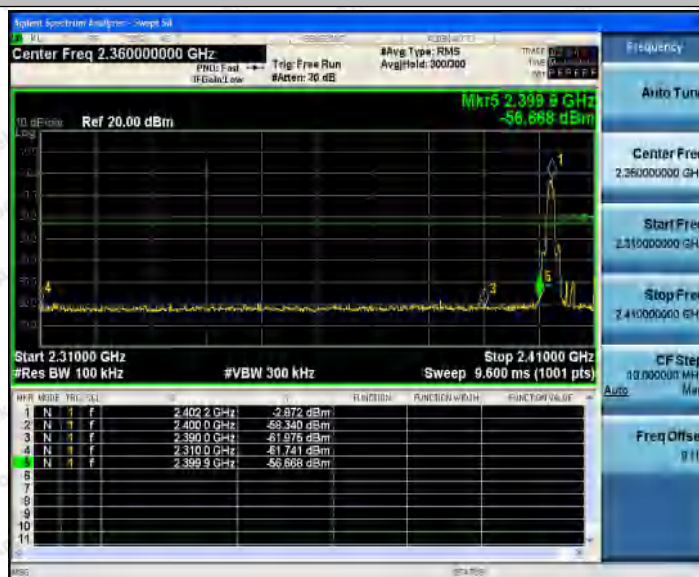
2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



Appendix H: Conducted Spurious Emission

Test Result

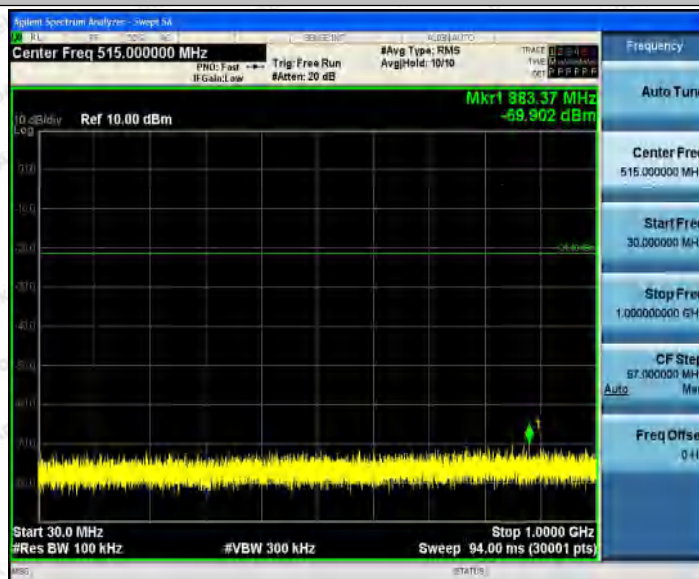
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-69.9	≤-21.4	PASS
			1000~26500	-1.40	-41.89	≤-21.4	PASS
		2441	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-69.91	≤-20.89	PASS
			1000~26500	-0.89	-46.37	≤-20.89	PASS
		2480	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-70.04	≤-21.38	PASS
			1000~26500	-1.38	-48.61	≤-21.38	PASS
2DH5	Ant1	2402	Reference	-2.71	-2.71	---	PASS
			30~1000	-2.71	-70.2	≤-22.71	PASS
			1000~26500	-2.71	-47.44	≤-22.71	PASS
		2441	Reference	-3.09	-3.09	---	PASS
			30~1000	-3.09	-66.34	≤-23.09	PASS
			1000~26500	-3.09	-49.16	≤-23.09	PASS
		2480	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-67.85	≤-23.18	PASS
			1000~26500	-3.18	-53.45	≤-23.18	PASS
3DH5	Ant1	2402	Reference	-2.81	-2.81	---	PASS
			30~1000	-2.81	-70.66	≤-22.81	PASS
			1000~26500	-2.81	-47.54	≤-22.81	PASS
		2441	Reference	-2.82	-2.82	---	PASS
			30~1000	-2.82	-68.96	≤-22.82	PASS
			1000~26500	-2.82	-50.88	≤-22.82	PASS
		2480	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-63.43	≤-22.66	PASS
			1000~26500	-2.66	-52.05	≤-22.66	PASS

Test Graphs

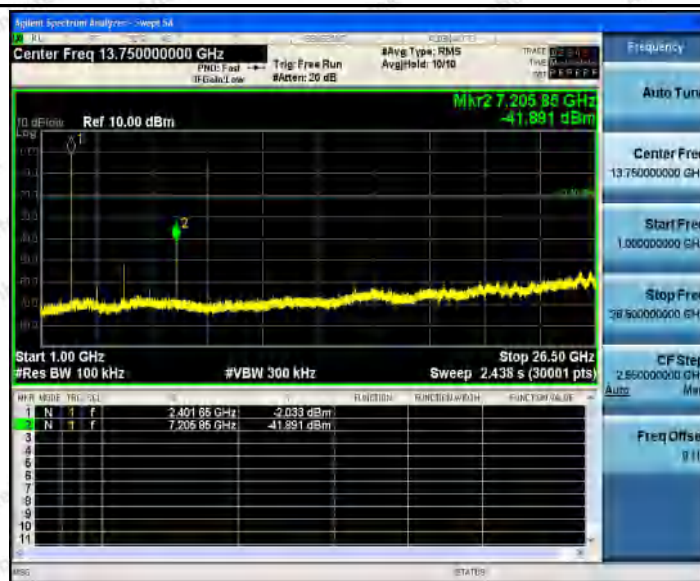
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DH5_Ant1_2402_30~1000



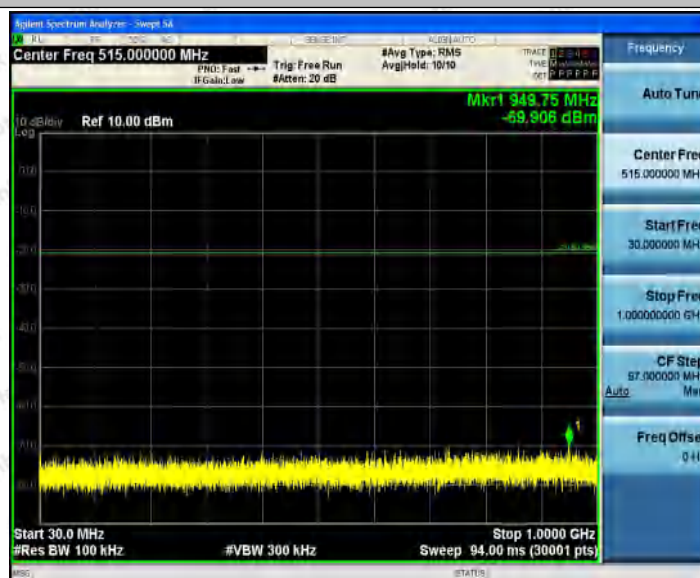
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



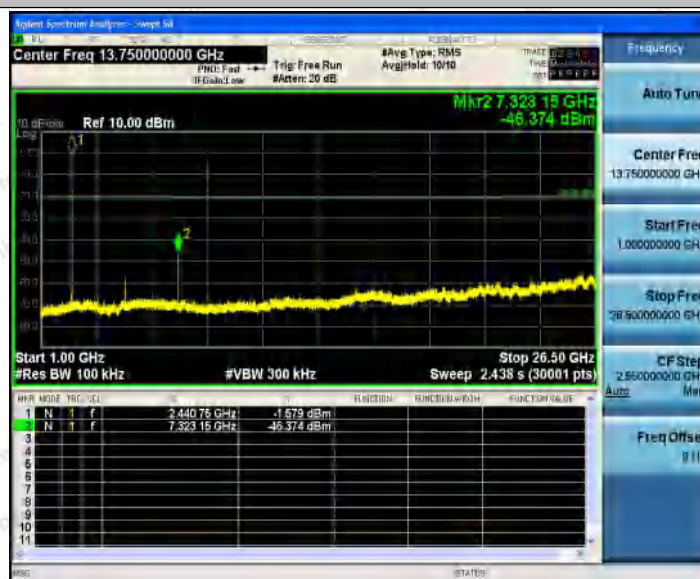
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



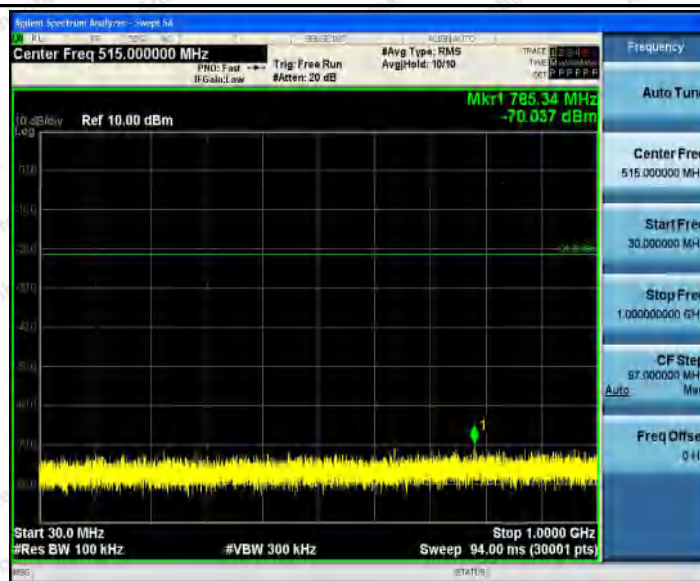
DH5_Ant1_2480_30~1000

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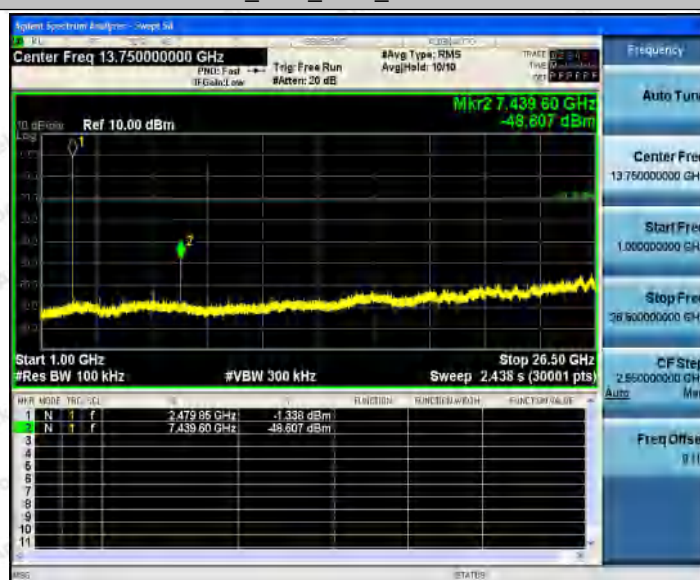
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



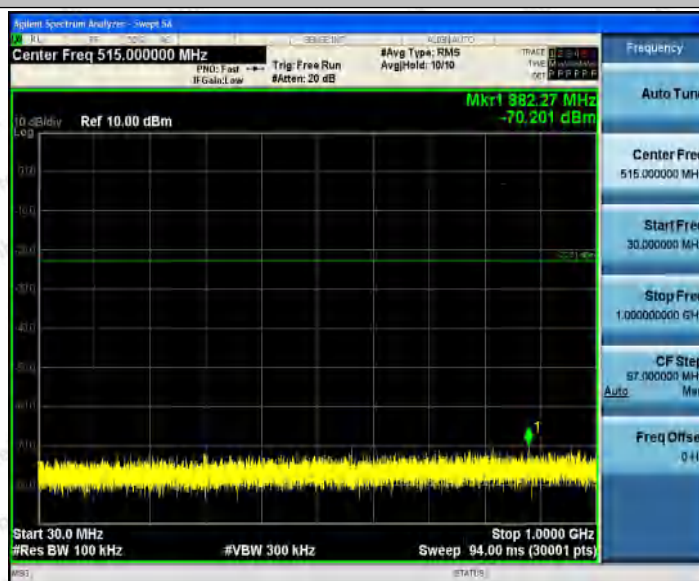
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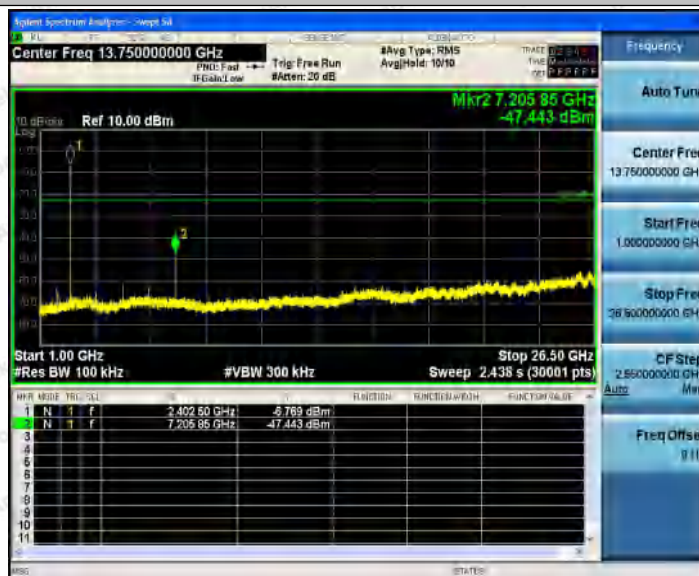
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2DH5_Ant1_2402_30~1000



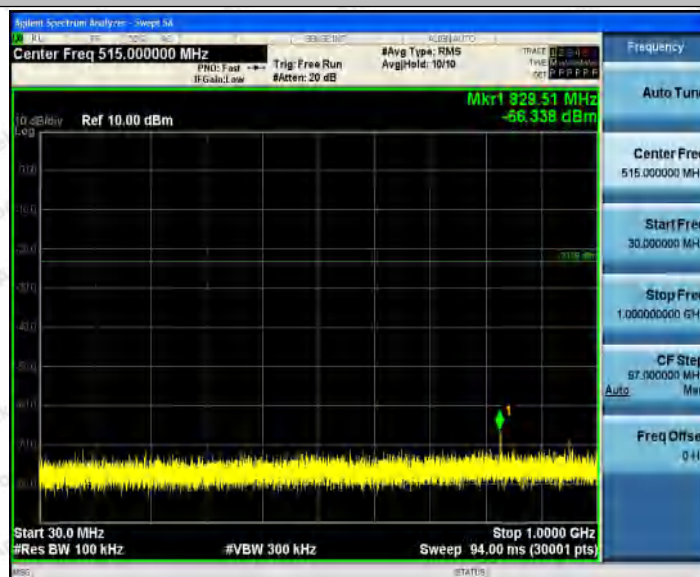
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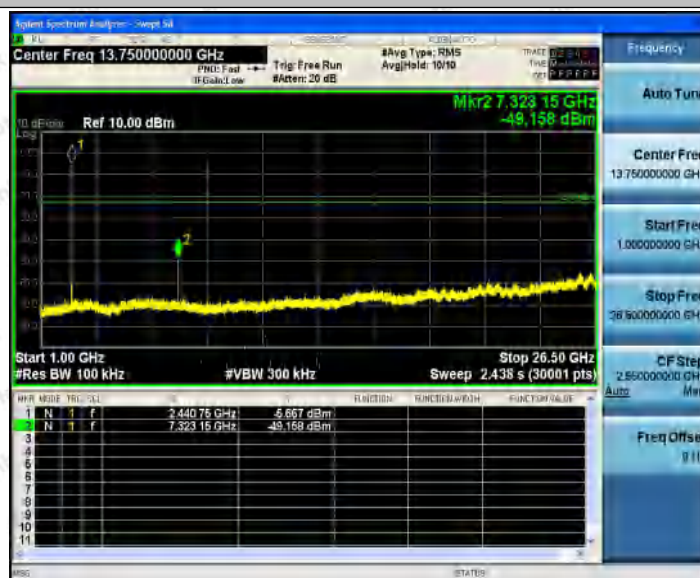
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



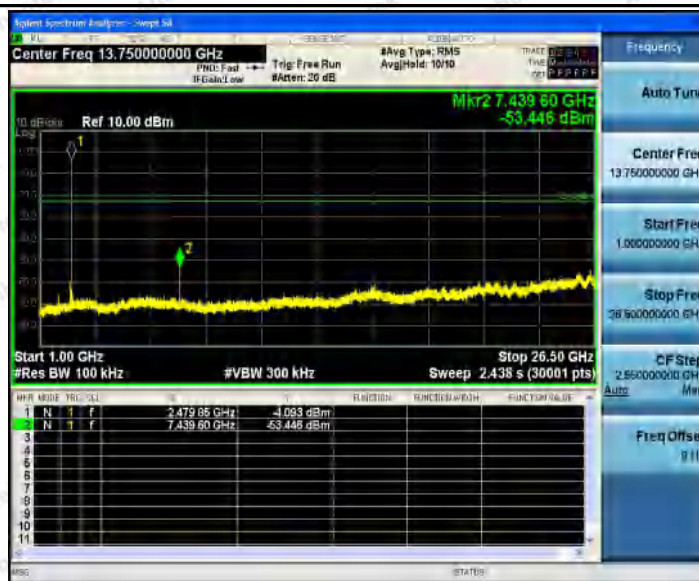
2DH5_Ant1_2480_1000~26500

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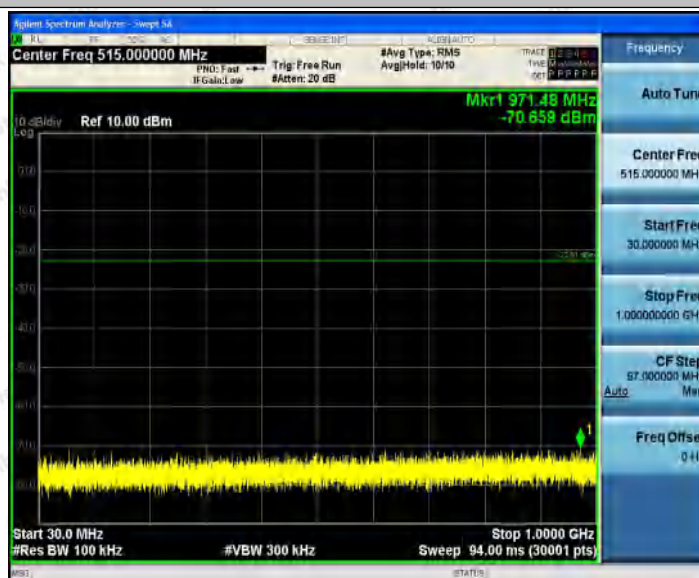
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



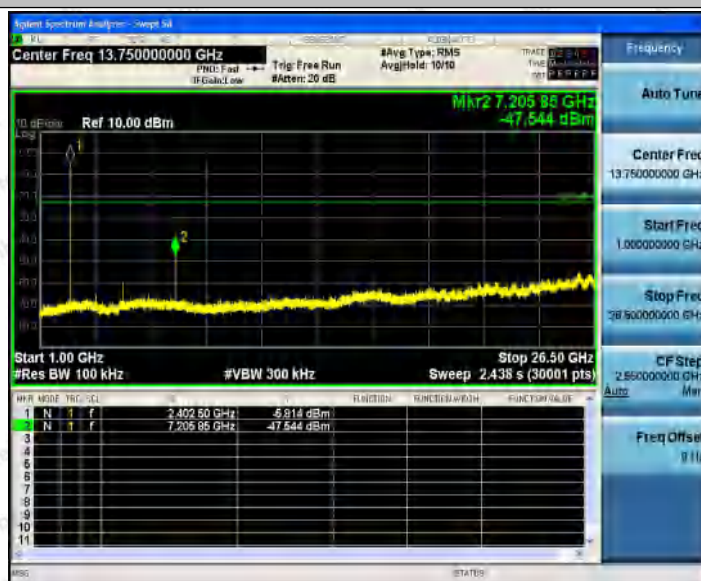
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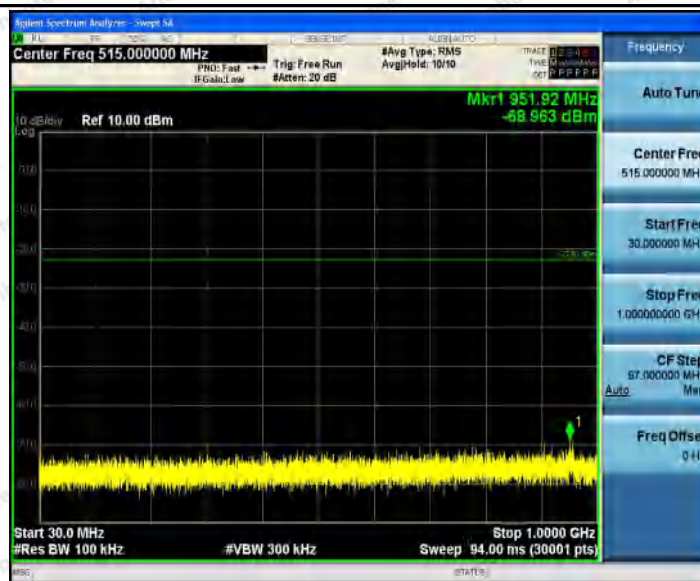
3DH5_Ant1_2402_1000~26500



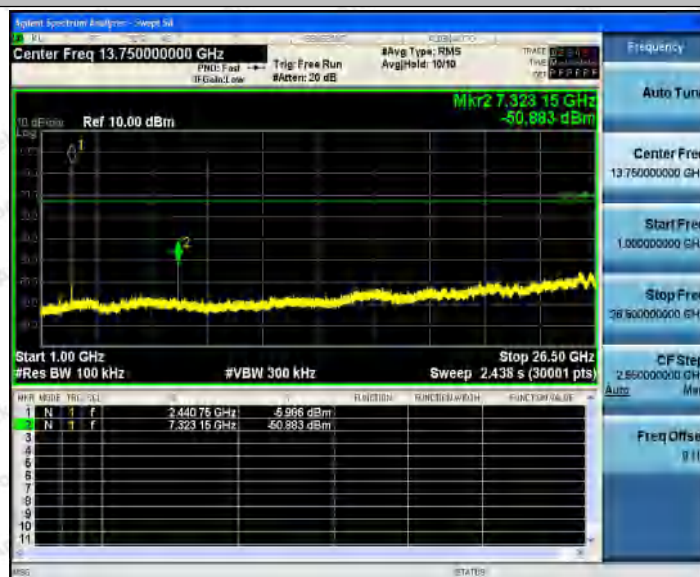
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

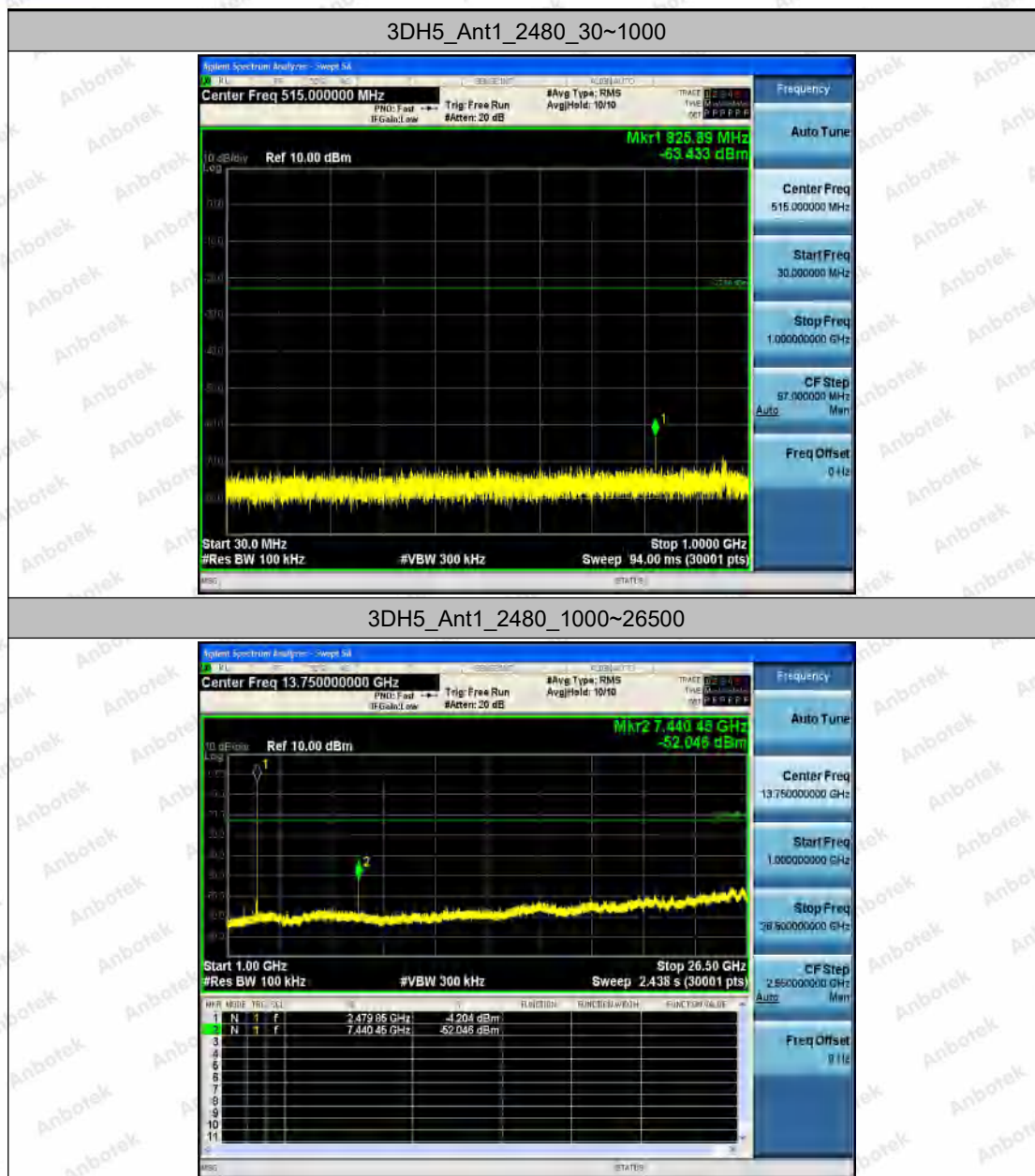


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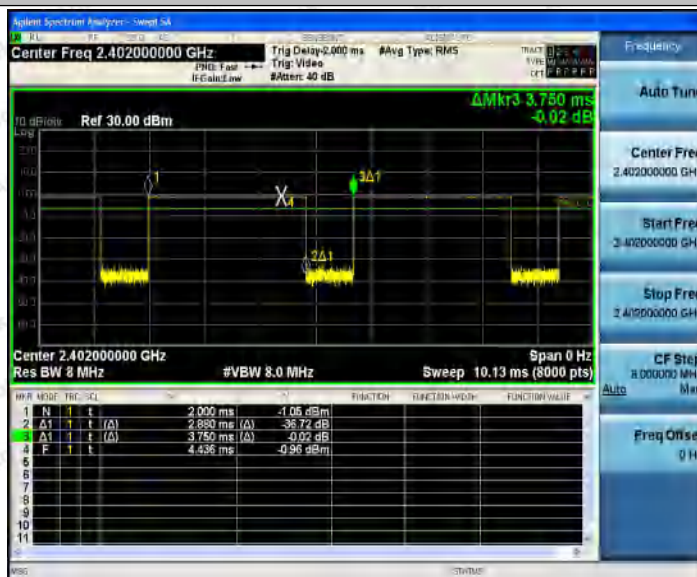
Appendix I: Duty Cycle

Test Result

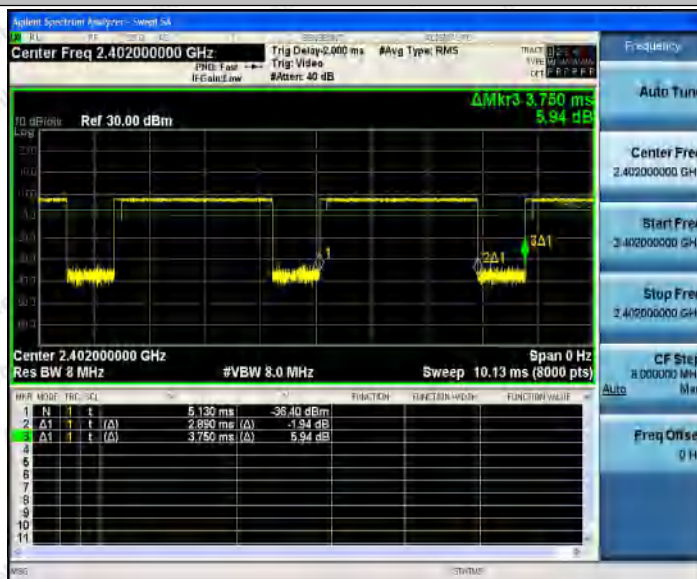
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

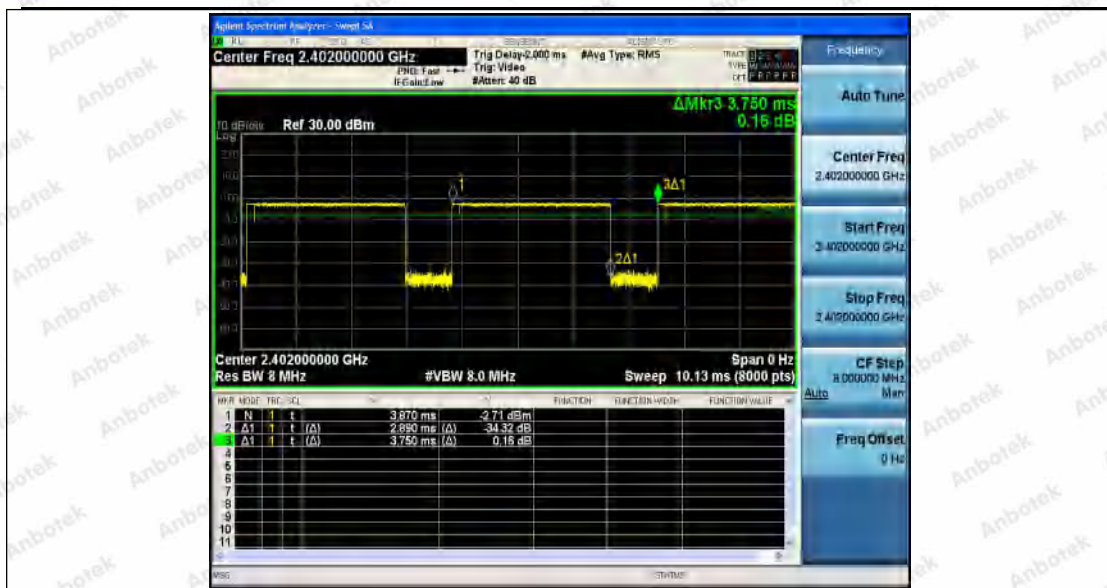
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---