

Appendix Test Data

Project No.:	18220WC10186401	Test Date:	2021.8.21
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	56 %
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	1.128	2401.424	2402.552	---	PASS
		2441	1.128	2440.436	2441.564	---	PASS
		2480	1.131	2479.430	2480.561	---	PASS
2DH5	Ant1	2402	1.377	2401.304	2402.681	---	PASS
		2441	1.383	2440.301	2441.684	---	PASS
		2480	1.365	2479.304	2480.669	---	PASS
3DH5	Ant1	2402	1.371	2401.319	2402.690	---	PASS
		2441	1.368	2440.328	2441.696	---	PASS
		2480	1.383	2479.310	2480.693	---	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	0.89143	2401.54 7	2402.439	---	PASS
		2441	0.89019	2440.54 9	2441.439	---	PASS
		2480	0.89594	2479.54 9	2480.445	---	PASS
2DH5	Ant1	2402	1.1988	2401.39 5	2402.594	---	PASS
		2441	1.1903	2440.39 8	2441.589	---	PASS
		2480	1.1834	2479.40 2	2480.585	---	PASS
3DH5	Ant1	2402	1.2126	2401.37 9	2402.592	---	PASS
		2441	1.2029	2440.38 5	2441.588	---	PASS
		2480	1.1968	2479.38 9	2480.585	---	PASS

Test Graphs

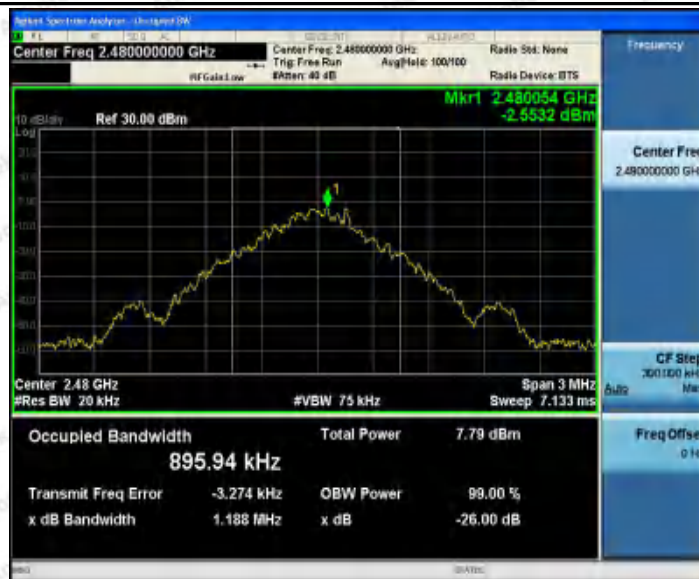
DH5_Ant1_2402



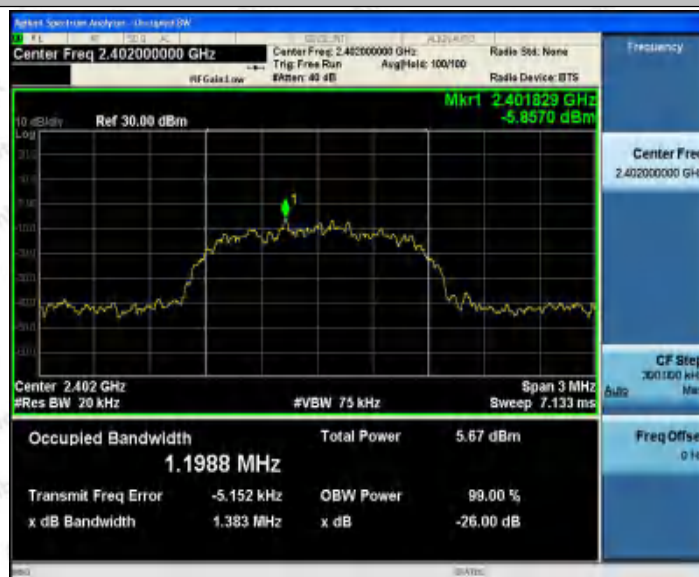
DH5_Ant1_2441



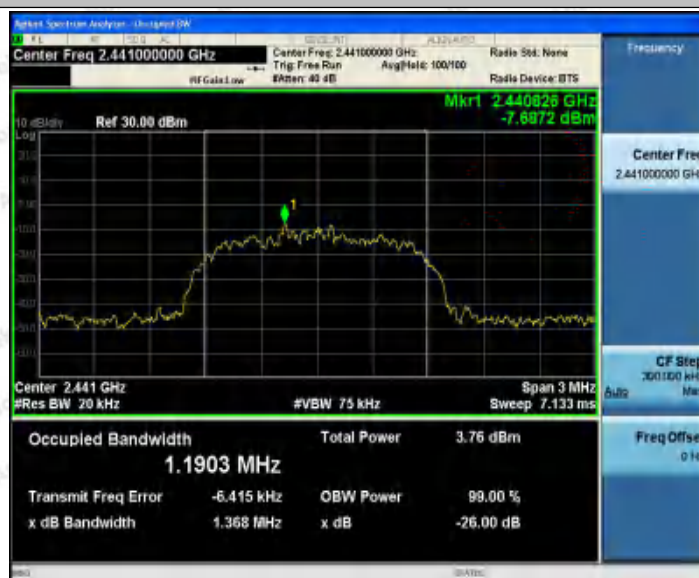
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



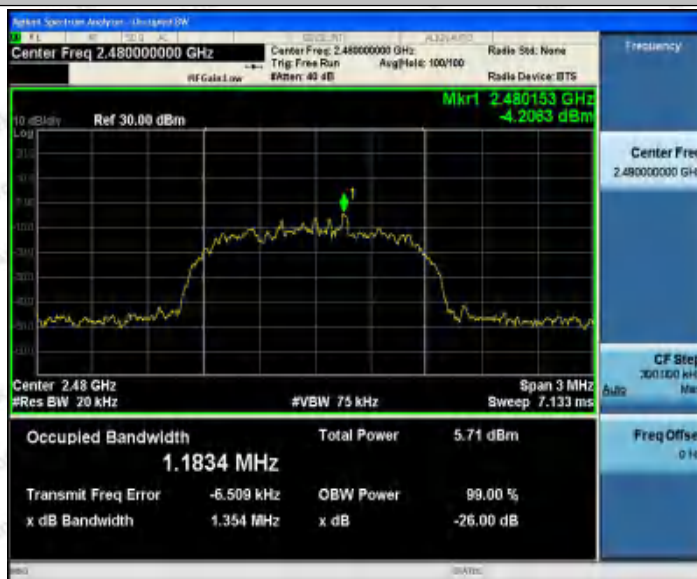
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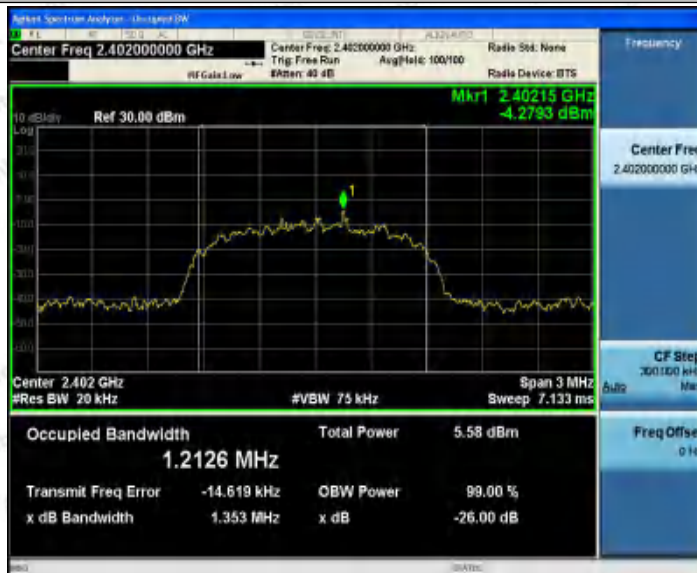
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



Appendix C: Maximum conducted output power

Test Result

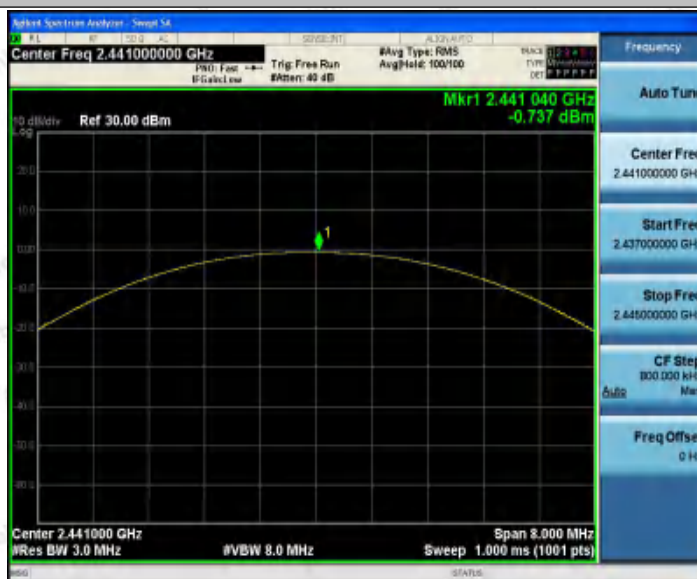
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.82	≤20.97	PASS
		2441	-0.74	≤20.97	PASS
		2480	1.3	≤20.97	PASS
2DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	-1.45	≤20.97	PASS
		2480	0.46	≤20.97	PASS
3DH5	Ant1	2402	0.34	≤20.97	PASS
		2441	-1.3	≤20.97	PASS
		2480	0.57	≤20.97	PASS

Test Graphs

DH5_Ant1_2402



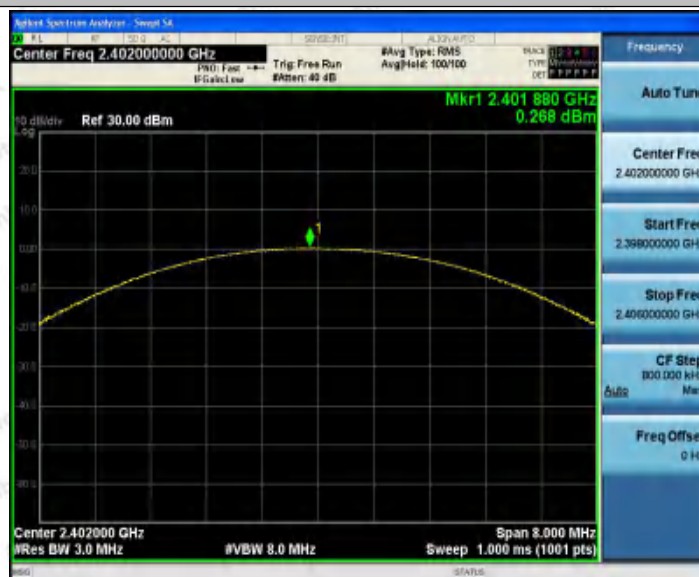
DH5_Ant1_2441



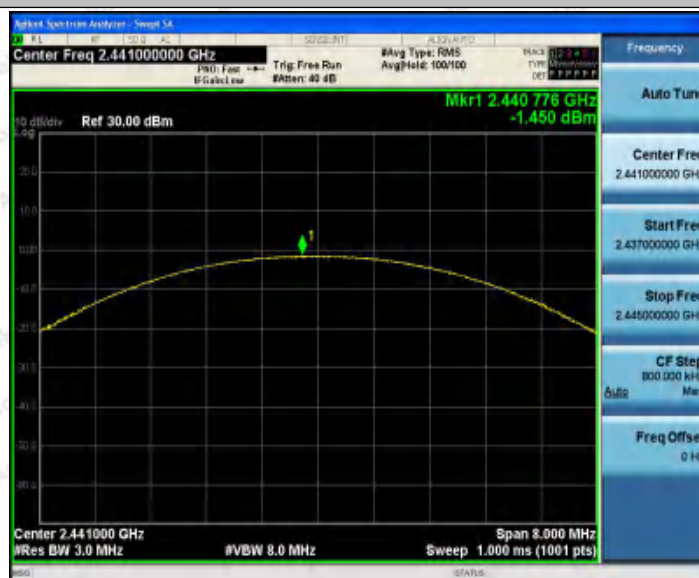
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



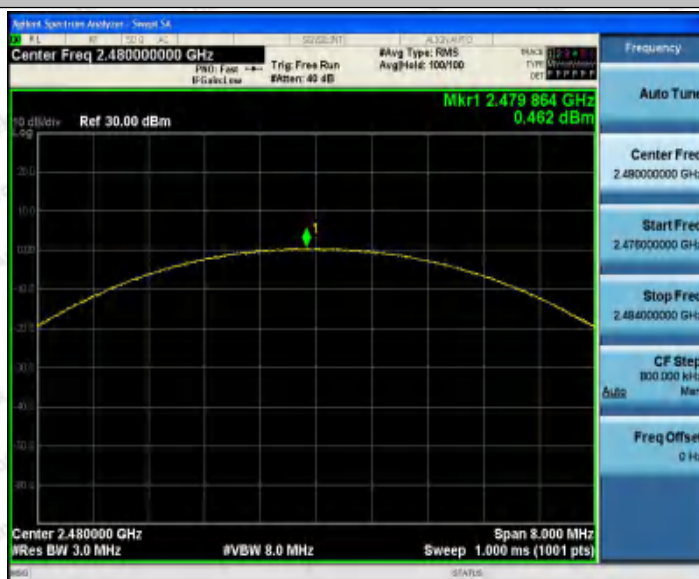
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[Mhz]	Limit[Mhz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.754	PASS
2DH5	Ant1	Hop	0.962	≥ 0.922	PASS
3DH5	Ant1	Hop	1.314	≥ 0.922	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

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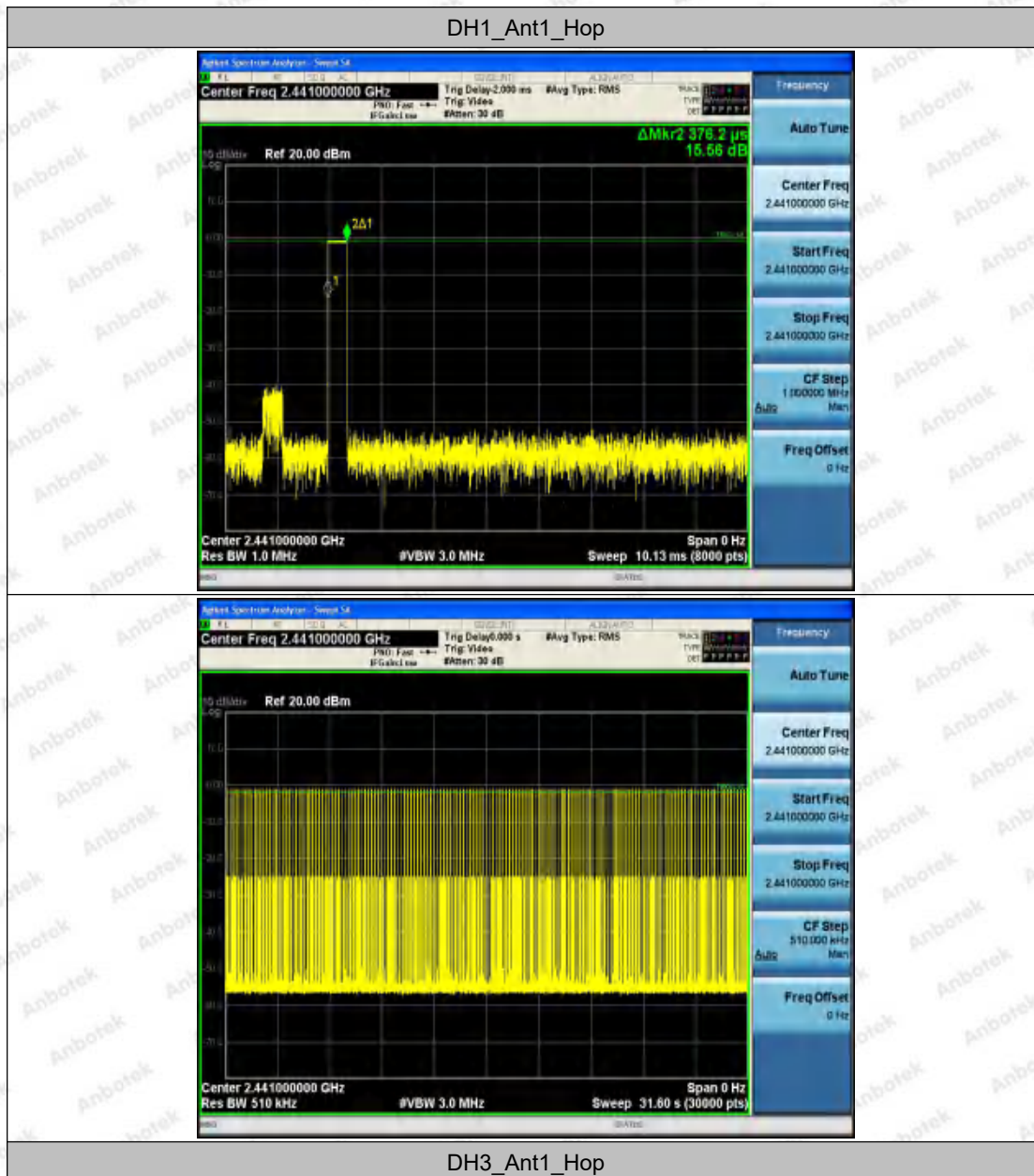
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	161	0.263	≤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	1.64	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106	0.306	≤0.4	PASS

Test Graphs



DH3_Ant1_Hop

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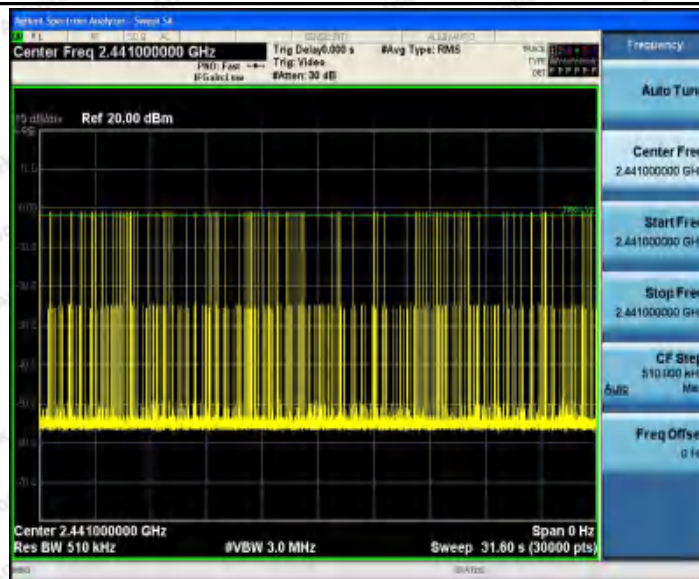
DH5_Ant1_Hop

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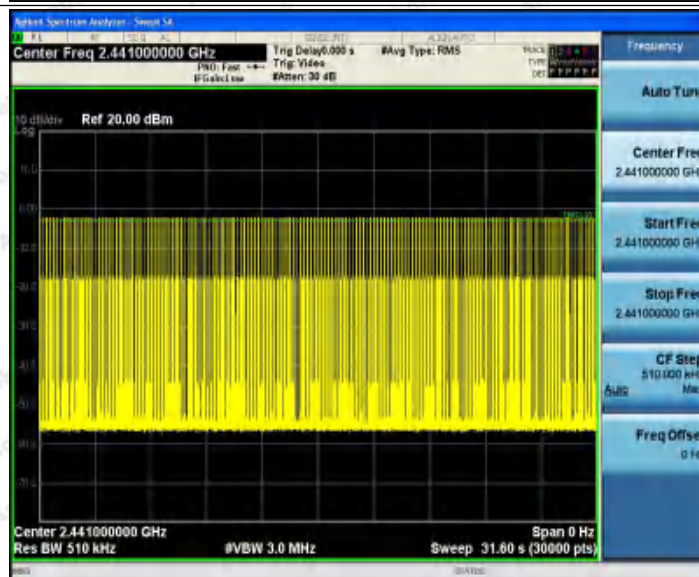
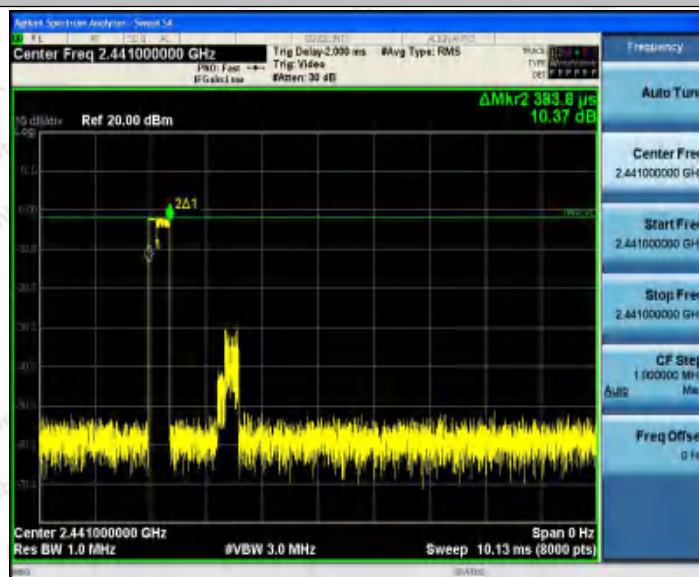
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2DH1_Ant1_Hop



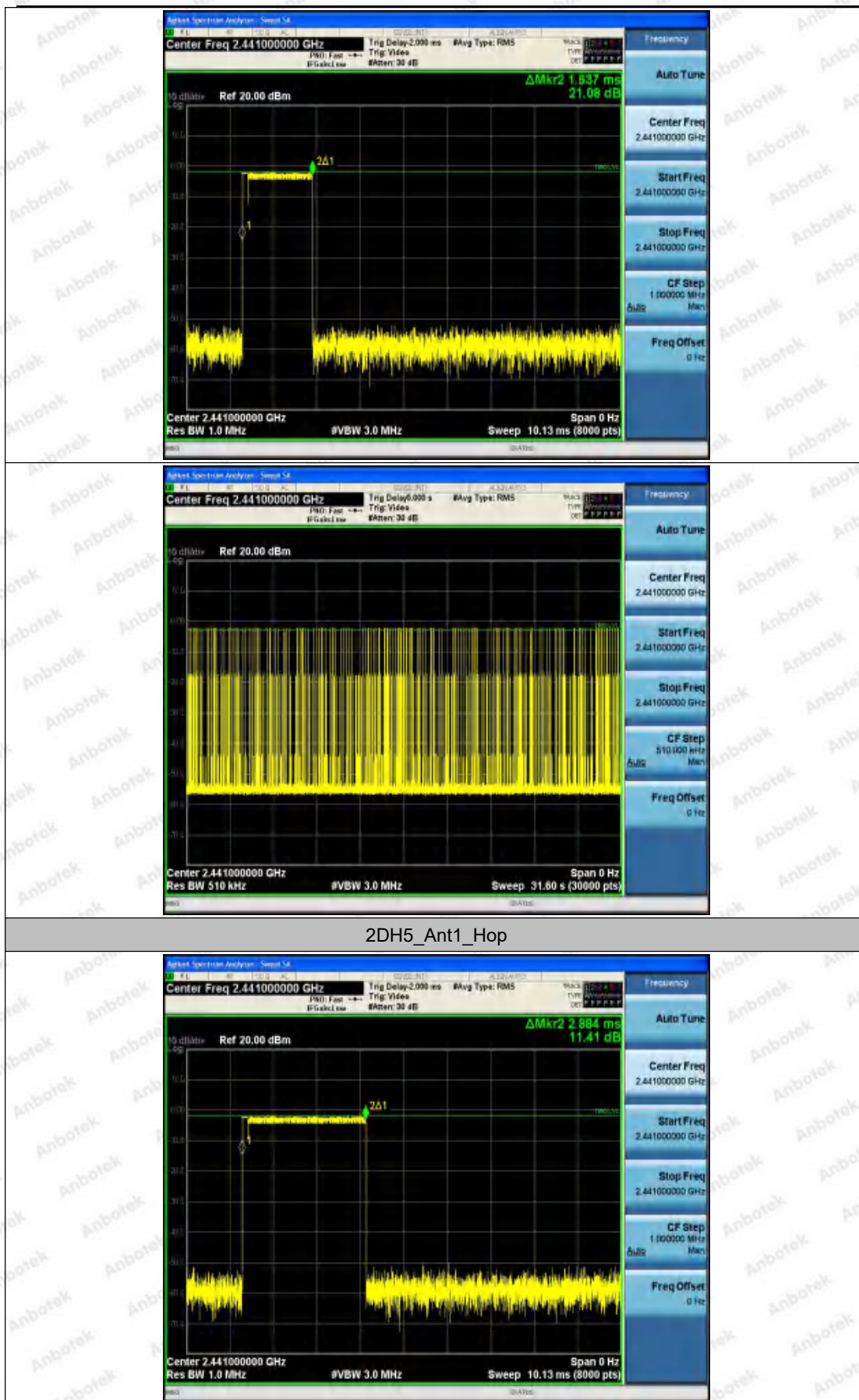
2DH3_Ant1_Hop

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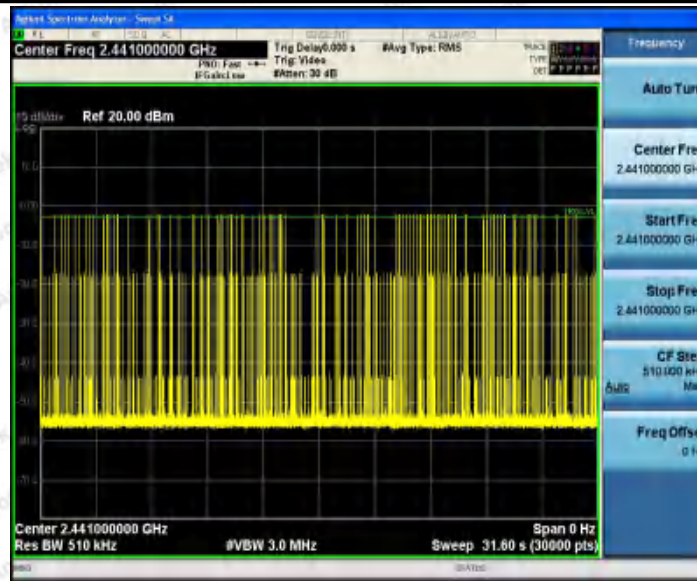


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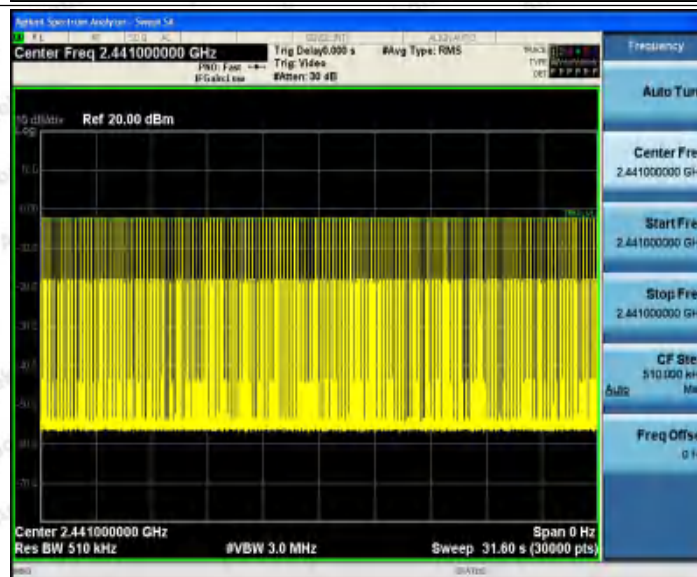
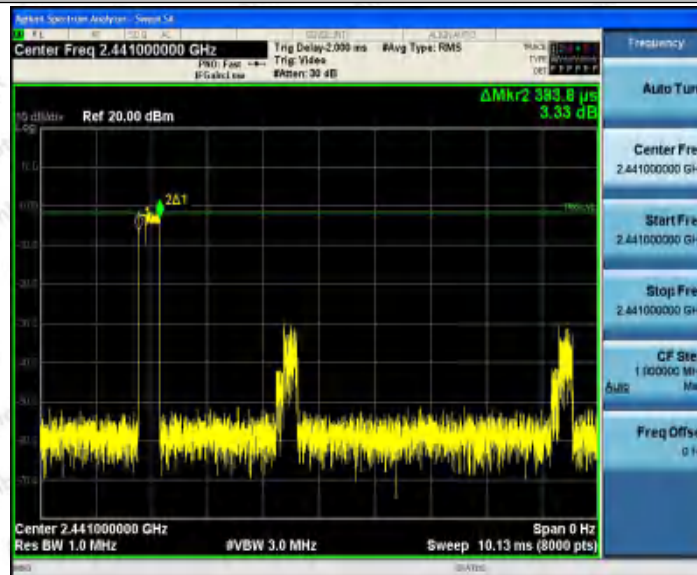
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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Appendix F: Number of hopping channels

Test Result

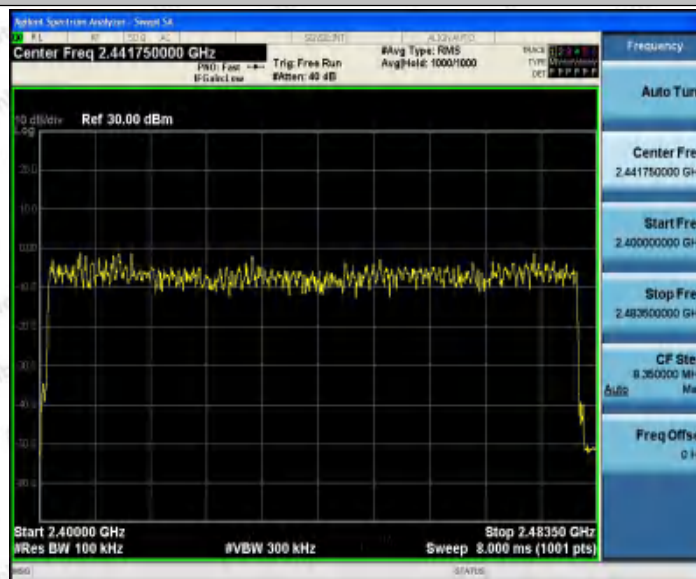
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

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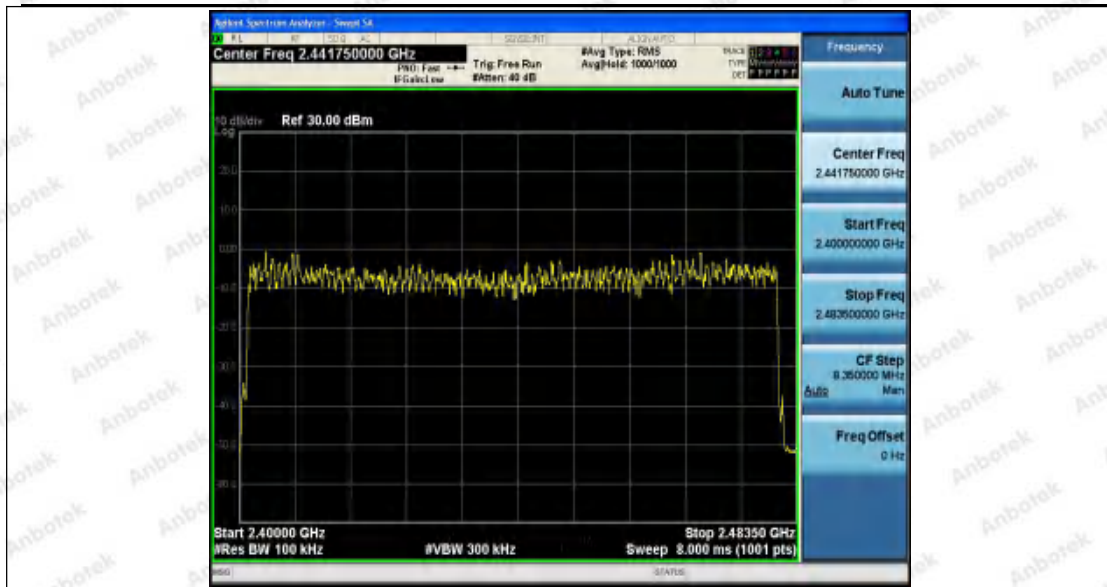
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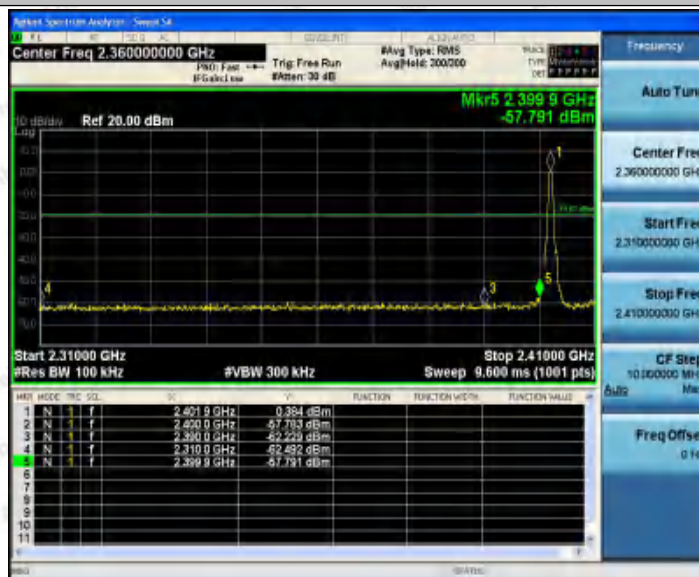
Appendix G: Band edge measurements

Test Result

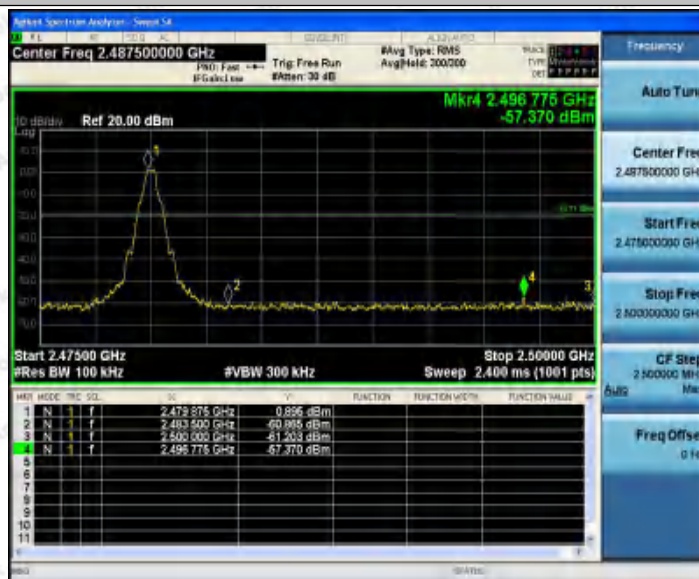
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.38	-57.79	≤-19.62	PASS
		High	2480	0.90	-57.37	≤-19.11	PASS
		Low	Hop	-0.14	-58.33	≤-20.14	PASS
		High	Hop	0.63	-61.85	≤-19.38	PASS
2DH5	Ant1	Low	2402	-2.41	-54.98	≤-22.41	PASS
		High	2480	-0.40	-59.6	≤-20.4	PASS
		Low	Hop	-0.88	-59.48	≤-20.88	PASS
		High	Hop	-0.43	-61.9	≤-20.43	PASS
3DH5	Ant1	Low	2402	-0.95	-56.29	≤-20.95	PASS
		High	2480	-0.87	-58.77	≤-20.87	PASS
		Low	Hop	-3.76	-59.79	≤-23.76	PASS
		High	Hop	-3.41	-60.48	≤-23.41	PASS

Test Graphs

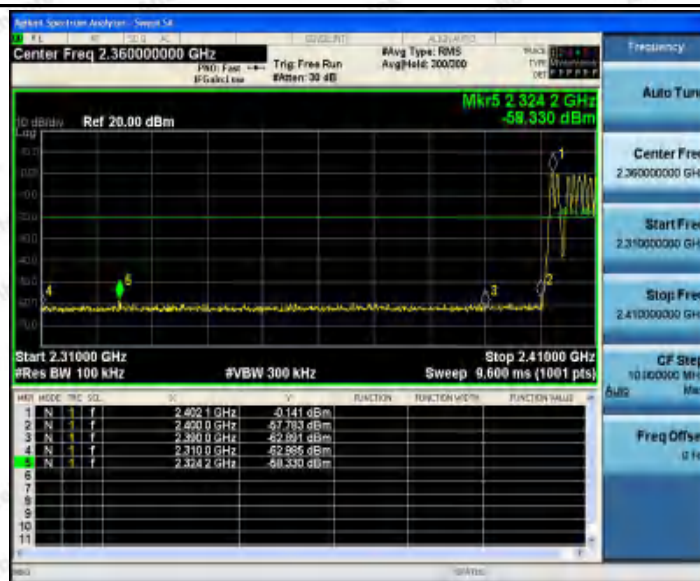
DH5_Ant1_Low_2402



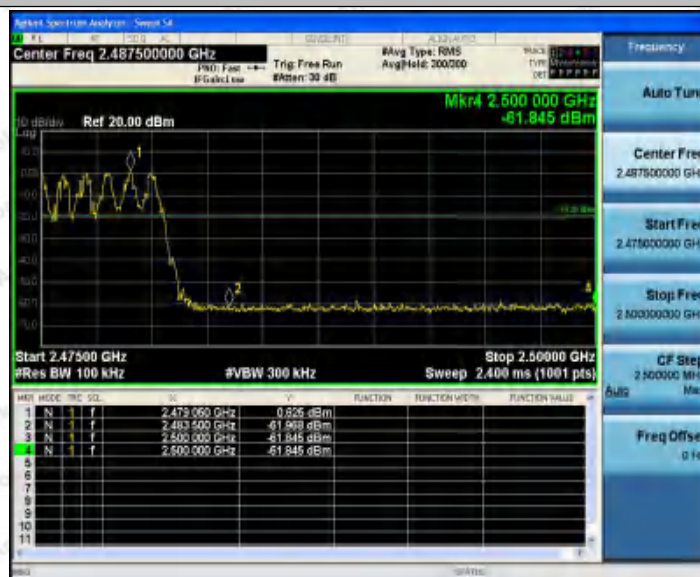
DH5_Ant1_High_2480



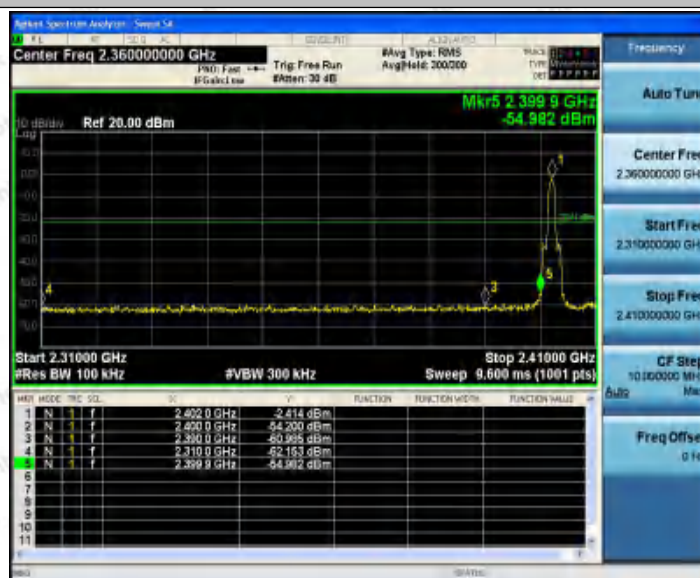
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



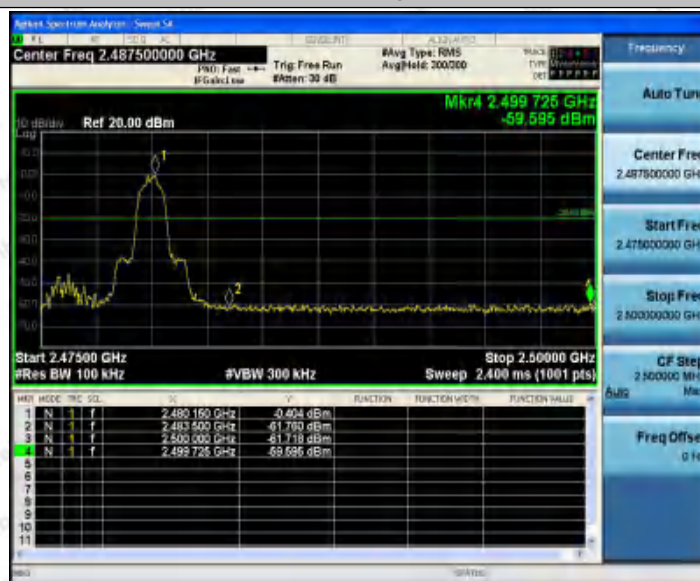
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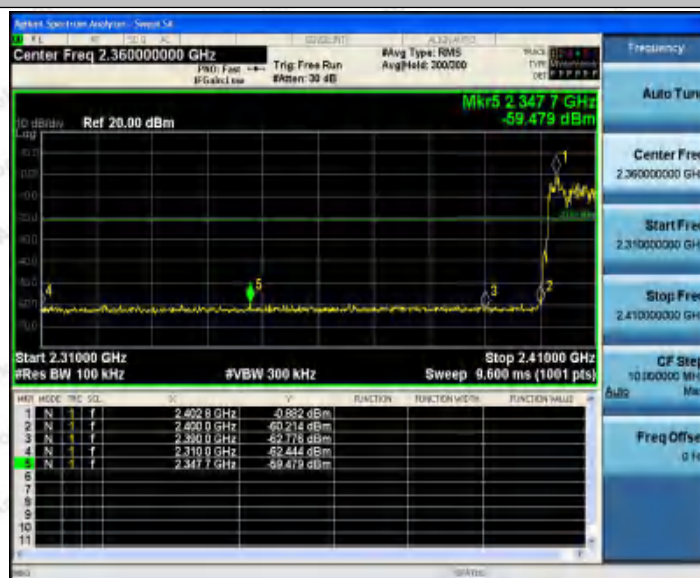
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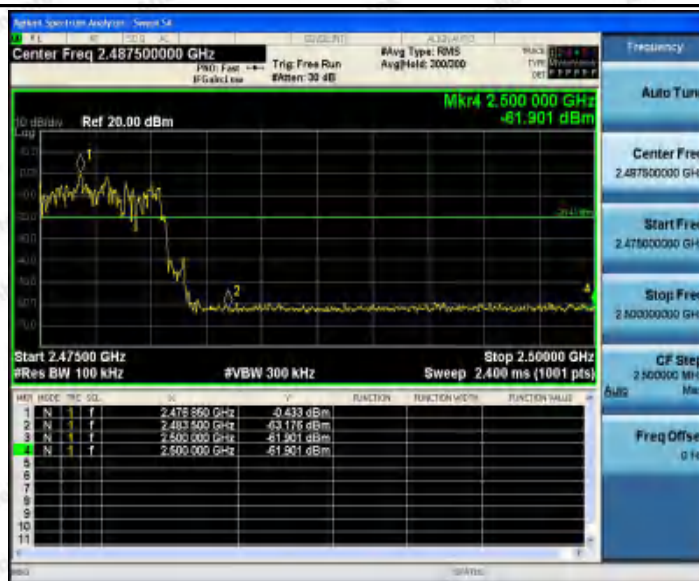
2DH5_Ant1_High_2480



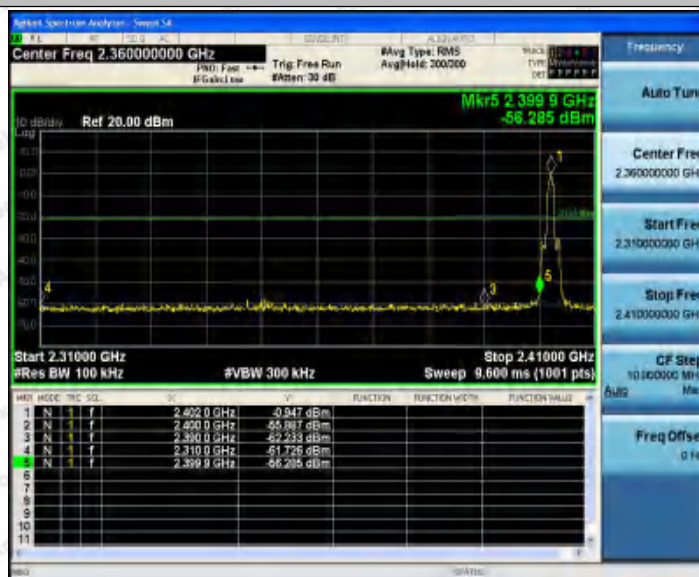
2DH5_Ant1_Low_Hop



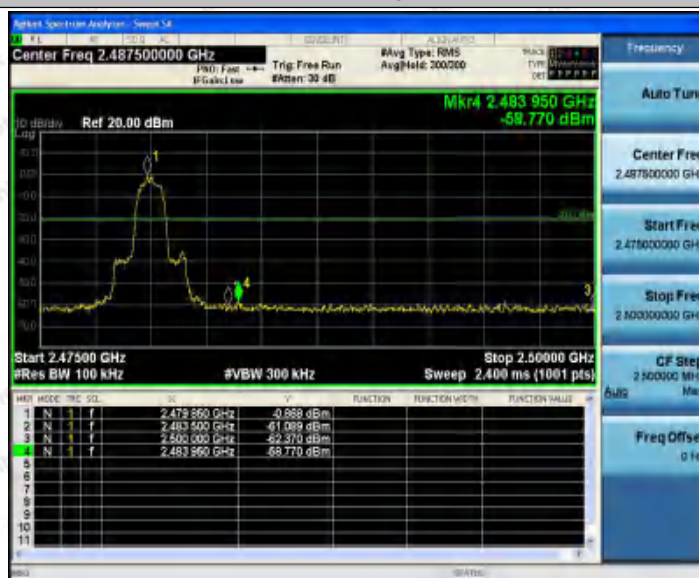
2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



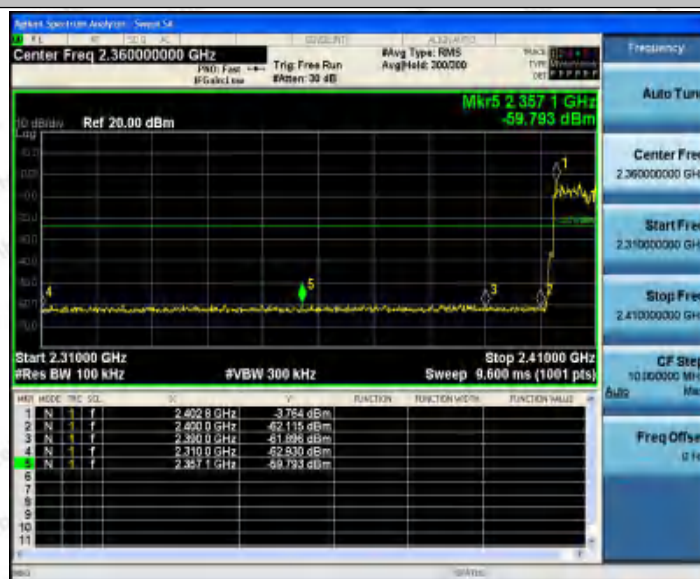
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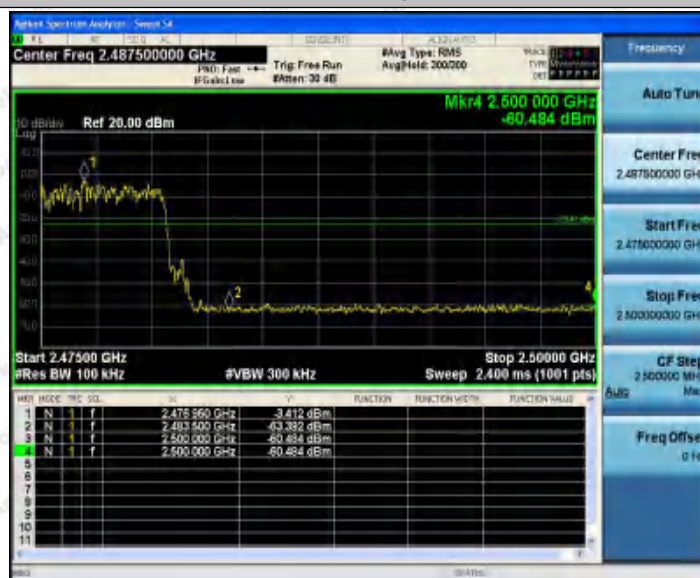
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



Appendix H: Conducted Spurious Emission

Test Result

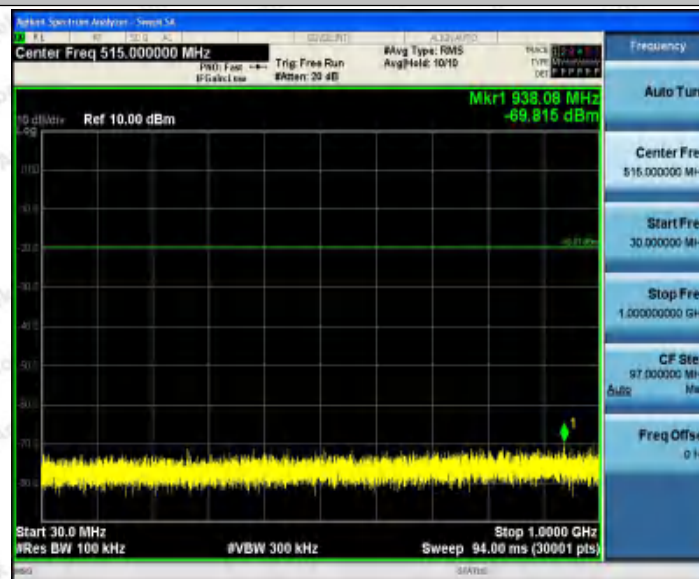
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.19	0.19	---	PASS
			30~1000	0.19	-69.82	≤-19.81	PASS
			1000~26500	0.19	-40.96	≤-19.81	PASS
		2441	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-69.9	≤-21.04	PASS
			1000~26500	-1.04	-41.5	≤-21.04	PASS
		2480	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-70.97	≤-19.2	PASS
			1000~26500	0.80	-47.44	≤-19.2	PASS
2DH5	Ant1	2402	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-70.36	≤-20.88	PASS
			1000~26500	-0.88	-40.31	≤-20.88	PASS
		2441	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-70.38	≤-22.38	PASS
			1000~26500	-2.38	-44.05	≤-22.38	PASS
		2480	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-70.73	≤-21.2	PASS
			1000~26500	-1.20	-50.86	≤-21.2	PASS
3DH5	Ant1	2402	Reference	-0.60	-0.60	---	PASS
			30~1000	-0.60	-69.75	≤-20.6	PASS
			1000~26500	-0.60	-43.03	≤-20.6	PASS
		2441	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-70.27	≤-22.49	PASS
			1000~26500	-2.49	-44.62	≤-22.49	PASS
		2480	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-70.08	≤-20.51	PASS
			1000~26500	-0.51	-49.43	≤-20.51	PASS

Test Graphs

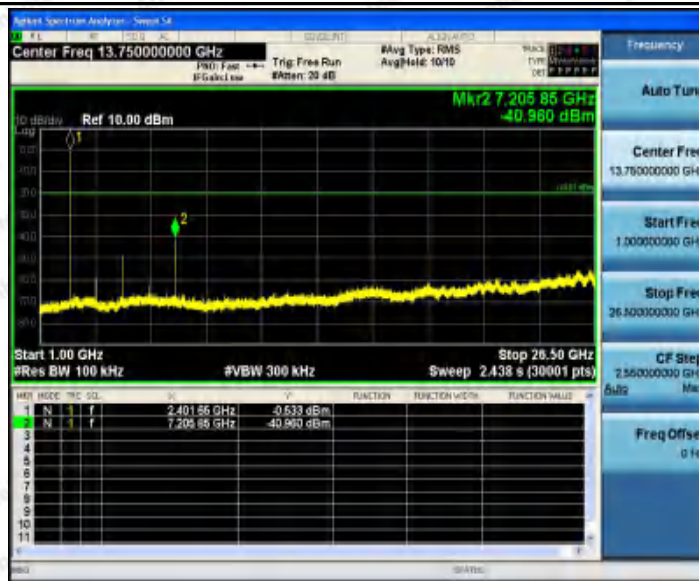
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



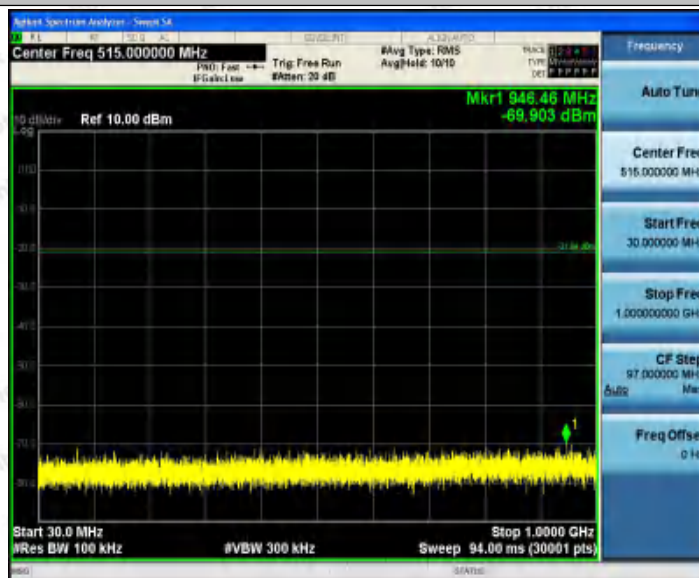
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



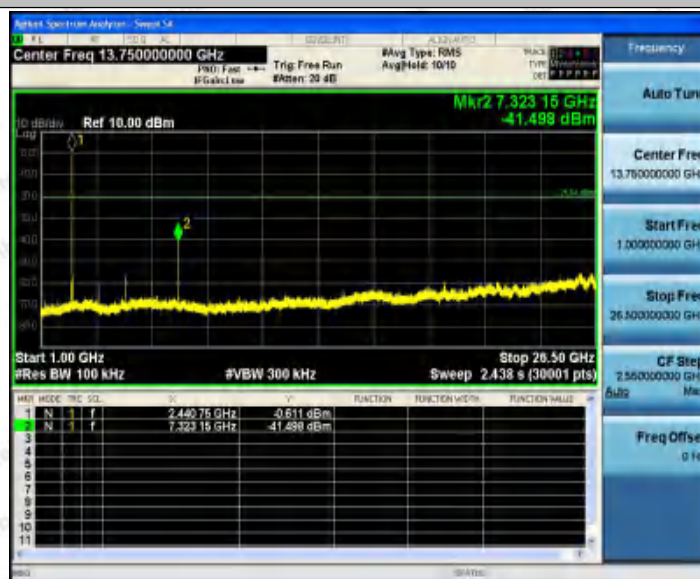
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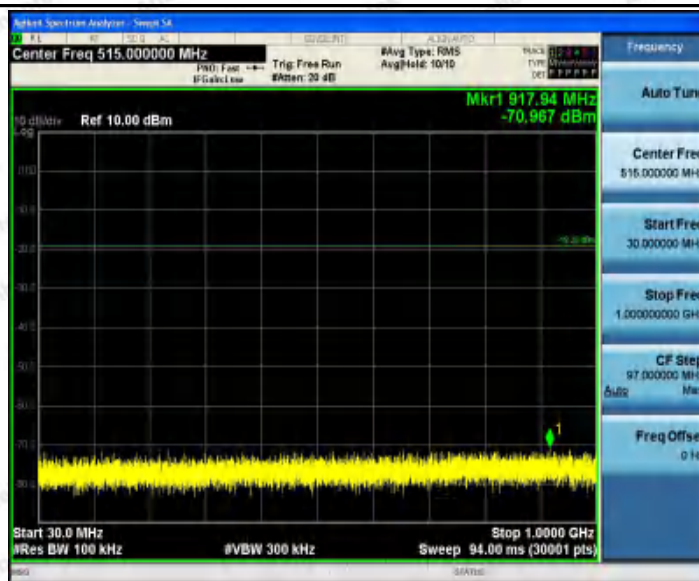
DH5_Ant1_2441_1000~26500



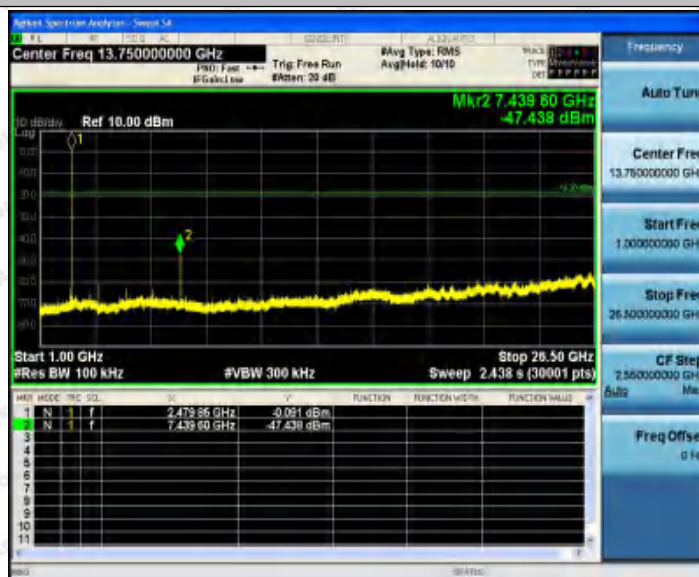
DH5_Ant1_2480_0~Reference



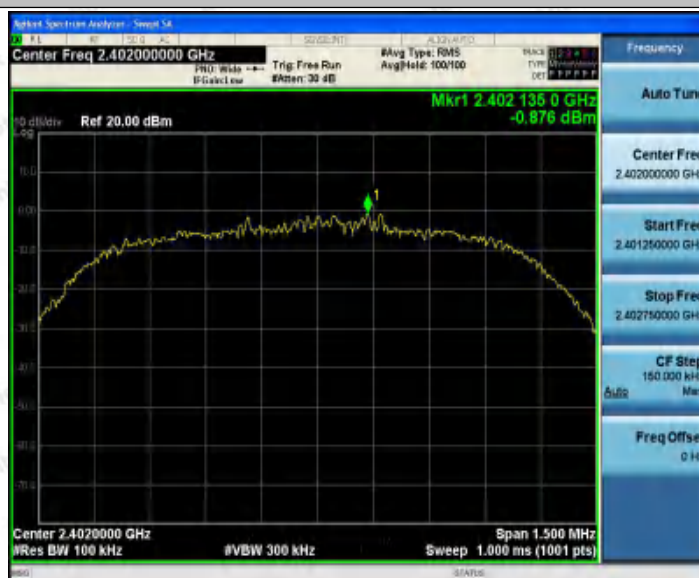
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



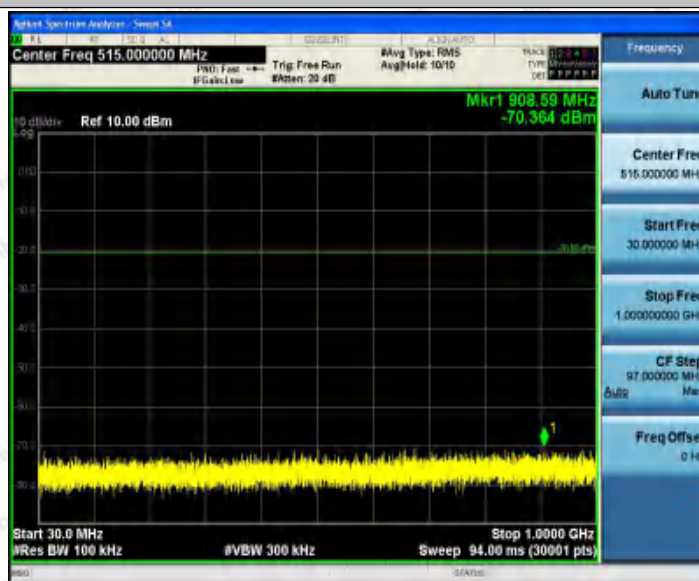
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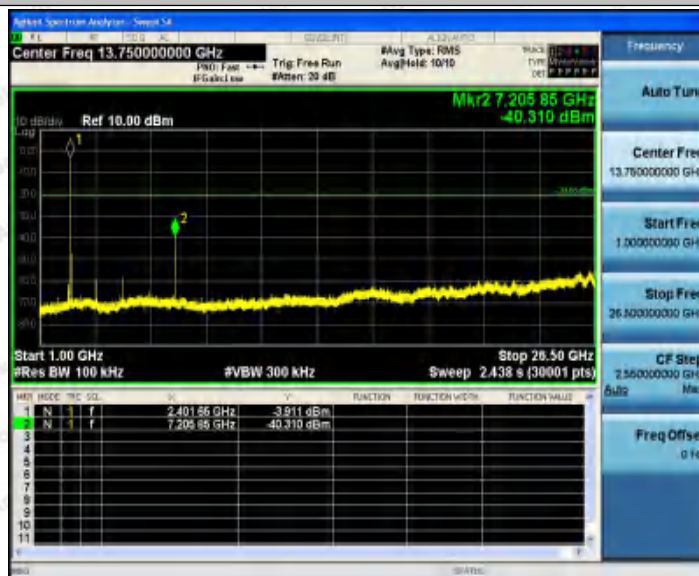
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

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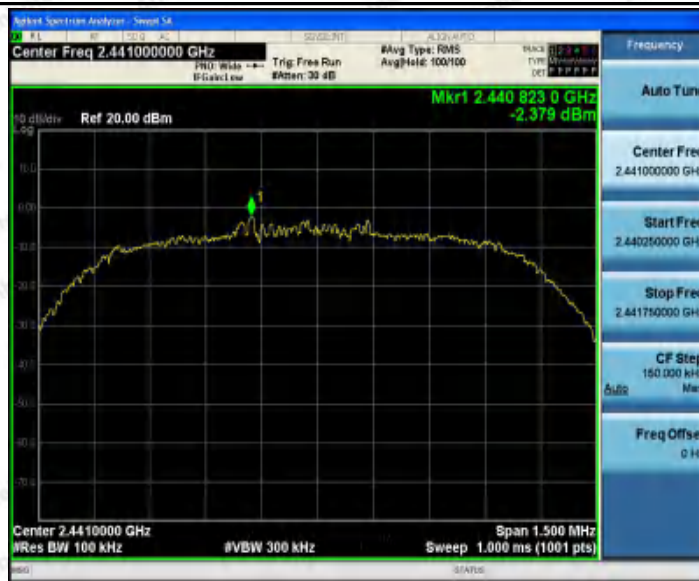
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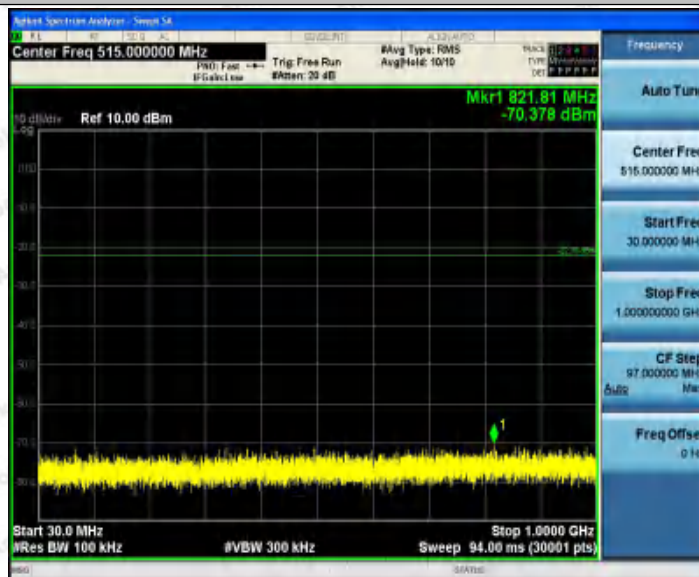
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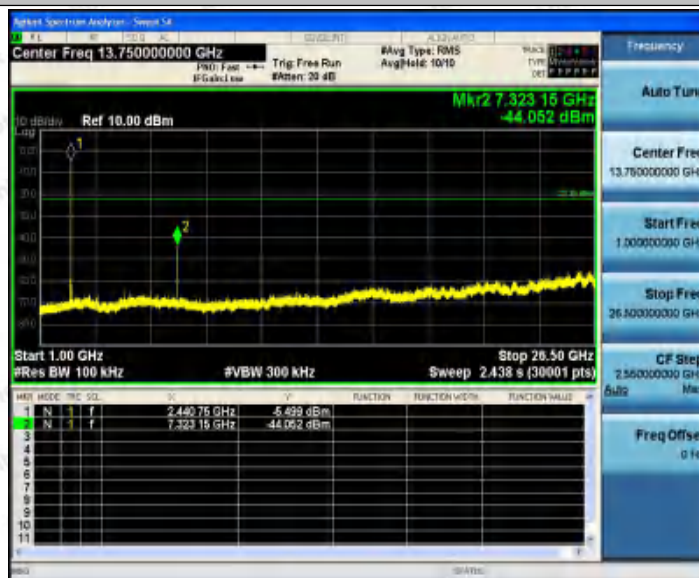
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



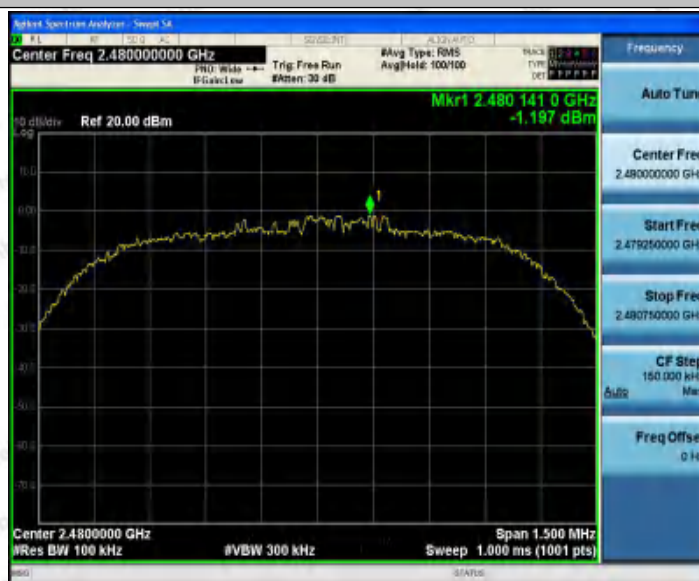
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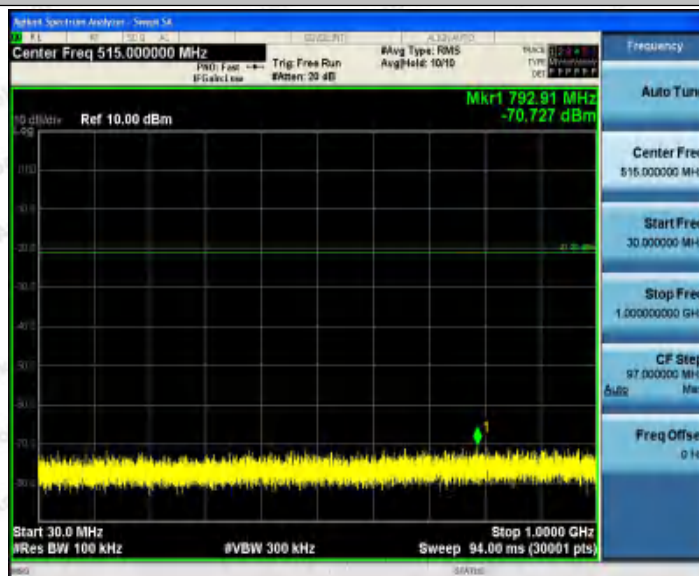
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



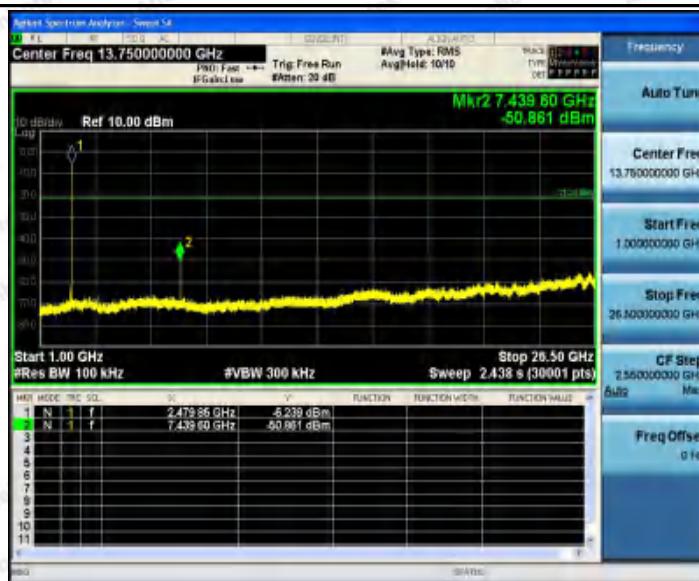
2DH5_Ant1_2480_1000~26500

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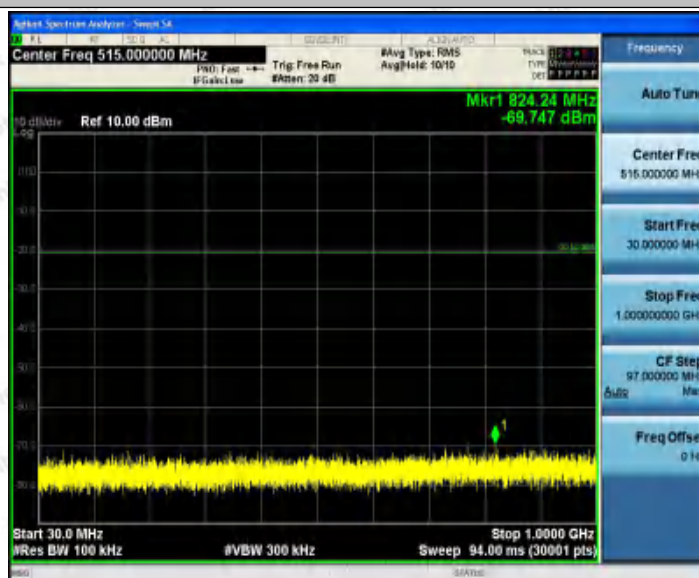
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



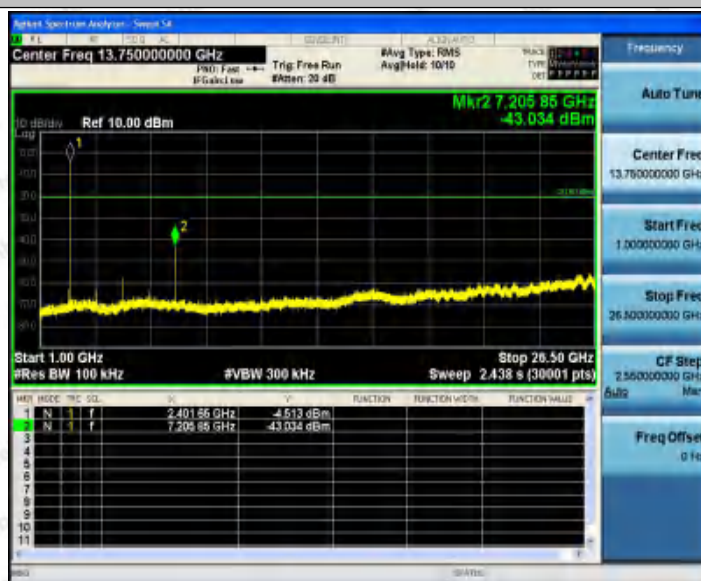
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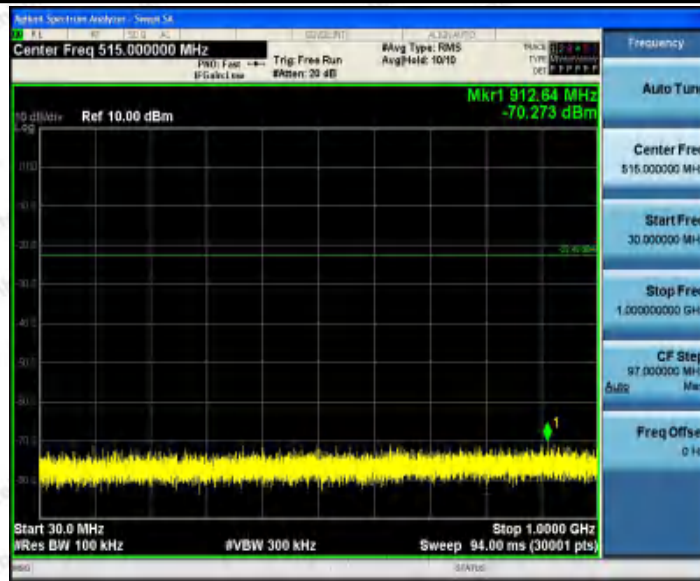
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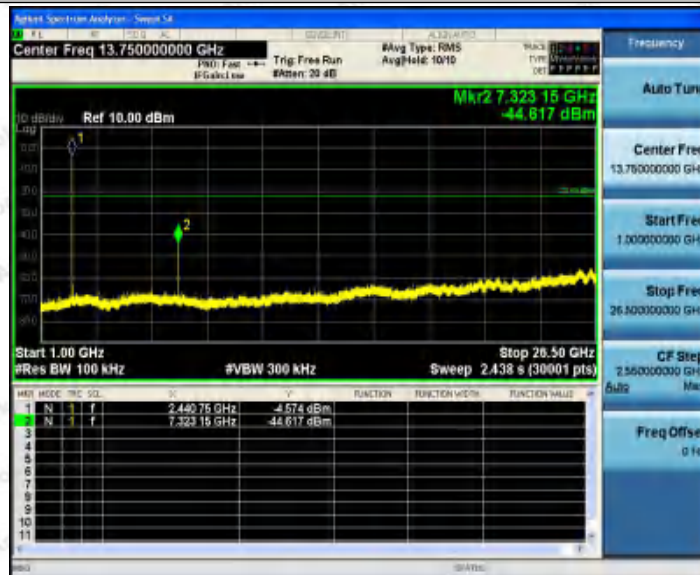
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3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

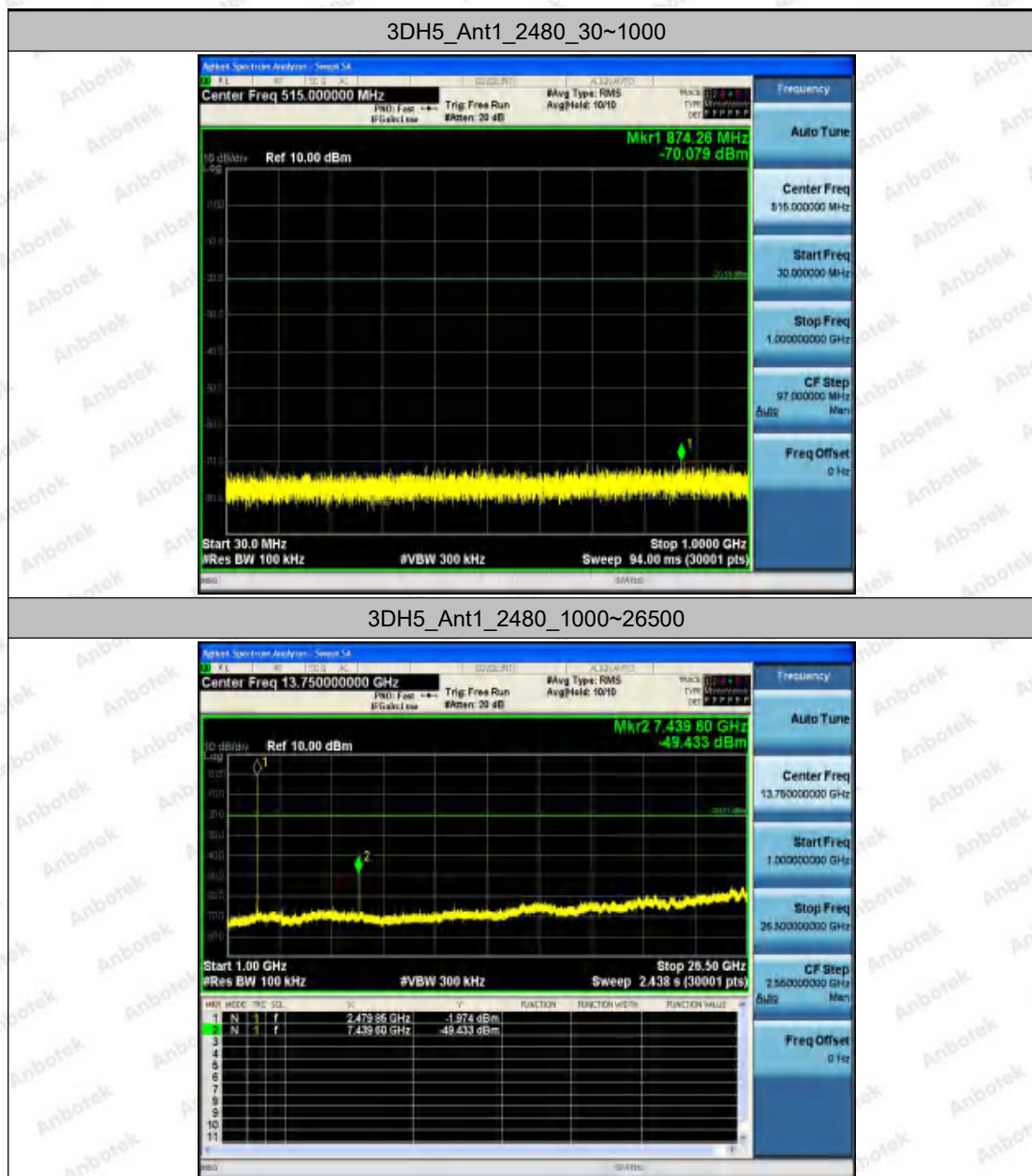


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Appendix I: Duty Cycle

Test Result

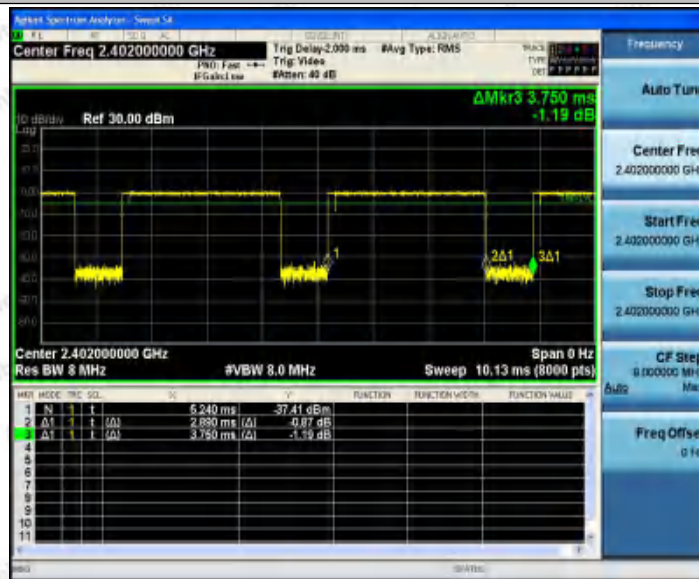
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---