

Appendix Test Data

Report No.:	18220WC10200501	Test Date:	2021.9.7
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	1.062	2401.481	2402.543	---	PASS
		2441	1.071	2440.460	2441.531	---	PASS
		2480	1.059	2479.475	2480.534	---	PASS
2DH5	Ant1	2402	1.371	2401.322	2402.693	---	PASS
		2441	1.386	2440.307	2441.693	---	PASS
		2480	1.377	2479.310	2480.687	---	PASS
3DH5	Ant1	2402	1.377	2401.316	2402.693	---	PASS
		2441	1.356	2440.334	2441.690	---	PASS
		2480	1.362	2479.316	2480.678	---	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

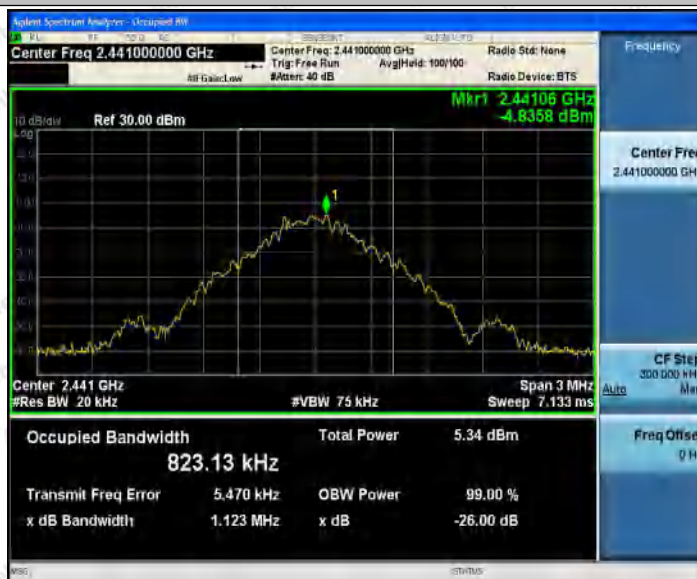
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83205	2401.58 8	2402.421	---	PASS
		2441	0.82313	2440.59 4	2441.417	---	PASS
		2480	0.81813	2479.59 1	2480.409	---	PASS
2DH5	Ant1	2402	1.1821	2401.41 0	2402.592	---	PASS
		2441	1.1849	2440.41 0	2441.595	---	PASS
		2480	1.1769	2479.41 4	2480.591	---	PASS
3DH5	Ant1	2402	1.1653	2401.41 6	2402.581	---	PASS
		2441	1.1595	2440.41 9	2441.579	---	PASS
		2480	1.1593	2479.42 0	2480.579	---	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



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.57	≤20.97	PASS
		2441	-1.26	≤20.97	PASS
		2480	-0.72	≤20.97	PASS
2DH5	Ant1	2402	4.08	≤20.97	PASS
		2441	1.1	≤20.97	PASS
		2480	1.7	≤20.97	PASS
3DH5	Ant1	2402	4.68	≤20.97	PASS
		2441	1.75	≤20.97	PASS
		2480	2.37	≤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	1.118	≥ 1.071	PASS
2DH5	Ant1	Hop	0.982	≥ 0.924	PASS
3DH5	Ant1	Hop	1	≥ 0.918	PASS

Test Graphs



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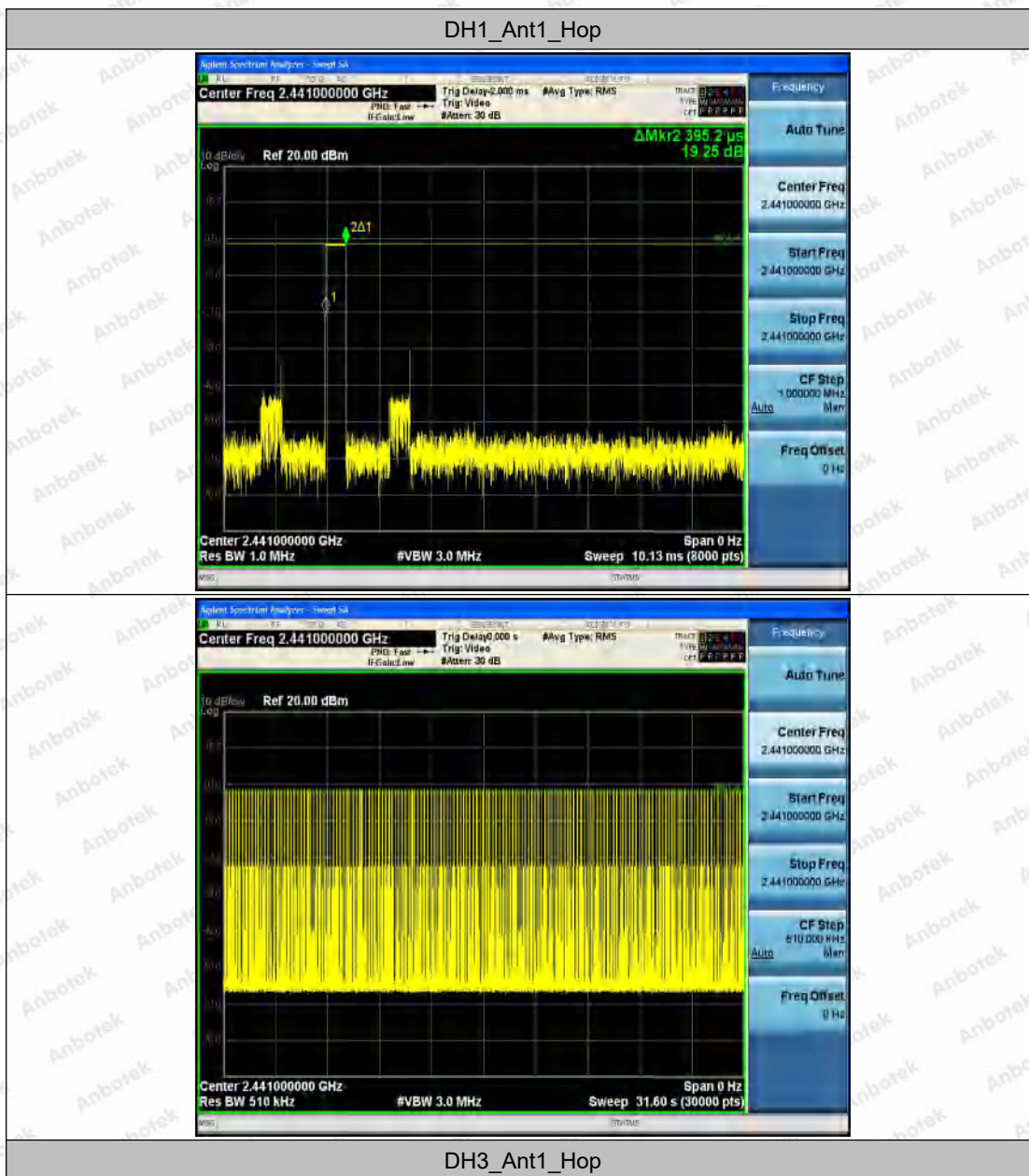
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	319	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.65	170	0.281	≤0.4	PASS
DH5	Ant1	Hop	2.90	100	0.29	≤0.4	PASS
2DH1	Ant1	Hop	0.40	318	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.66	163	0.27	≤0.4	PASS
2DH5	Ant1	Hop	2.90	111	0.322	≤0.4	PASS
3DH1	Ant1	Hop	0.41	317	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.66	168	0.278	≤0.4	PASS
3DH5	Ant1	Hop	2.91	99	0.288	≤0.4	PASS

Test Graphs



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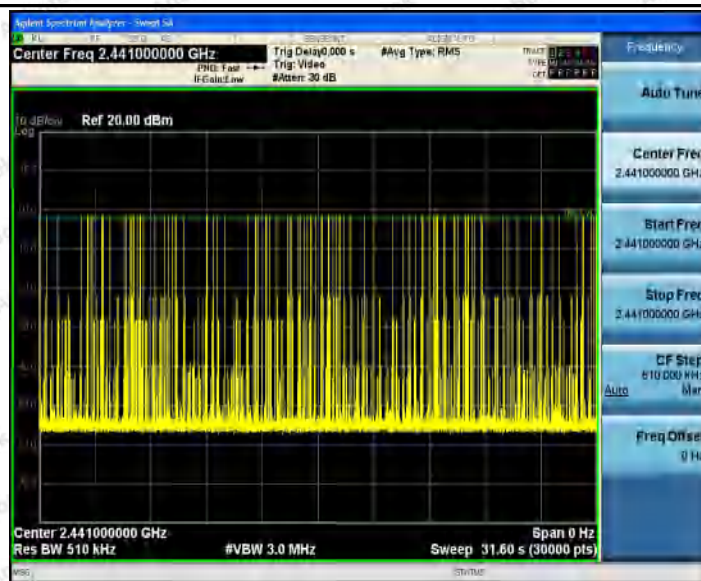
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

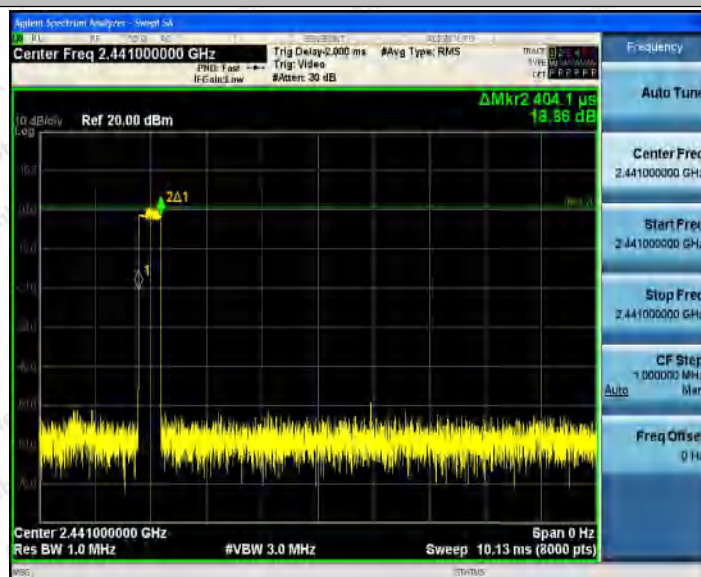
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DH5_Ant1_Hop



2DH1_Ant1_Hop



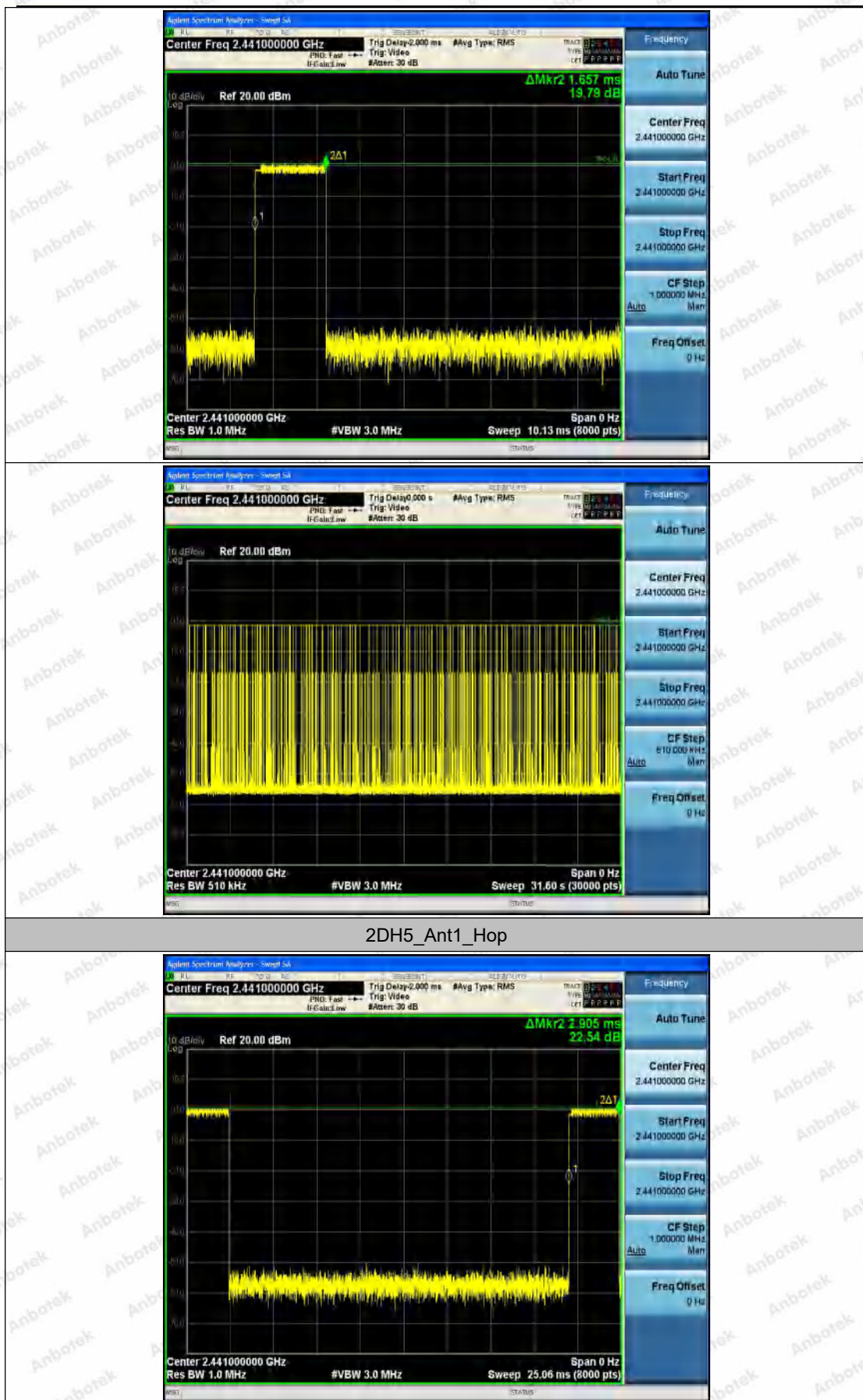
2DH3_Ant1_Hop

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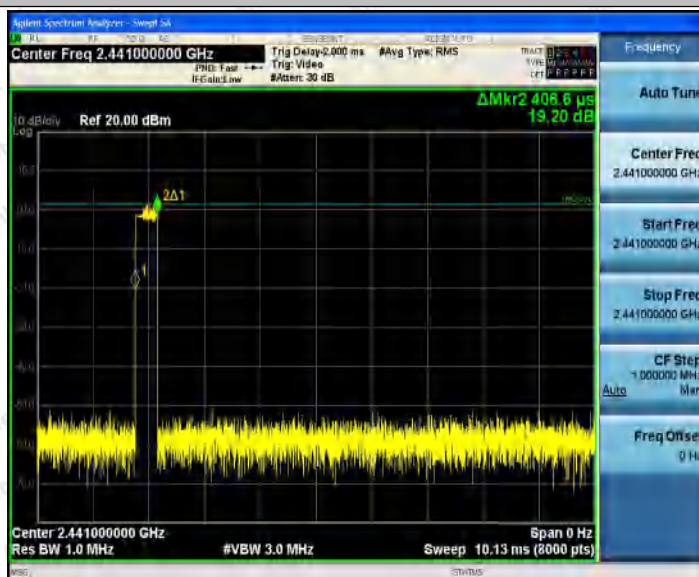
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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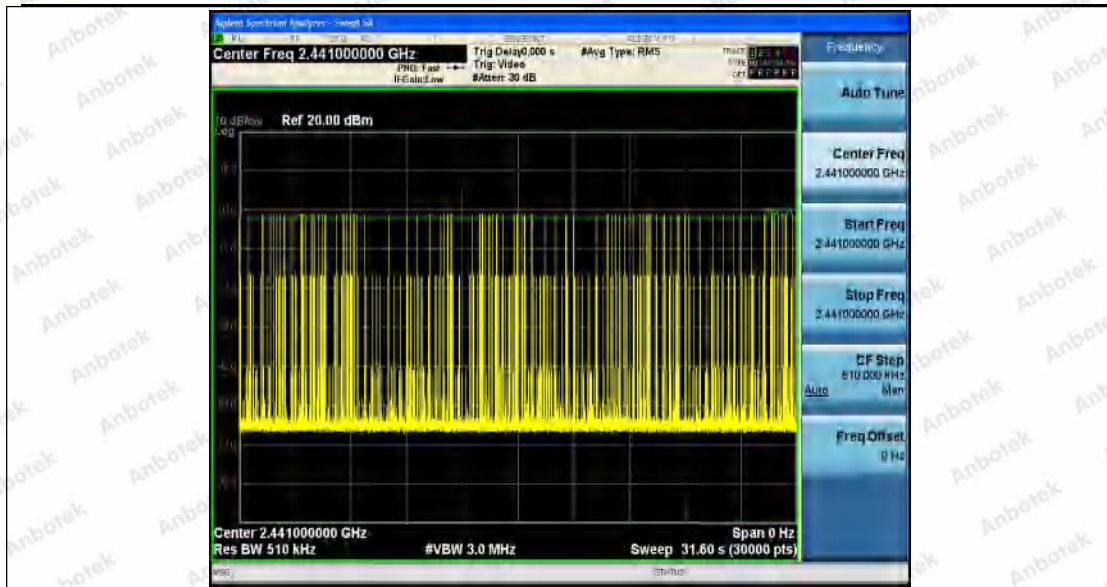


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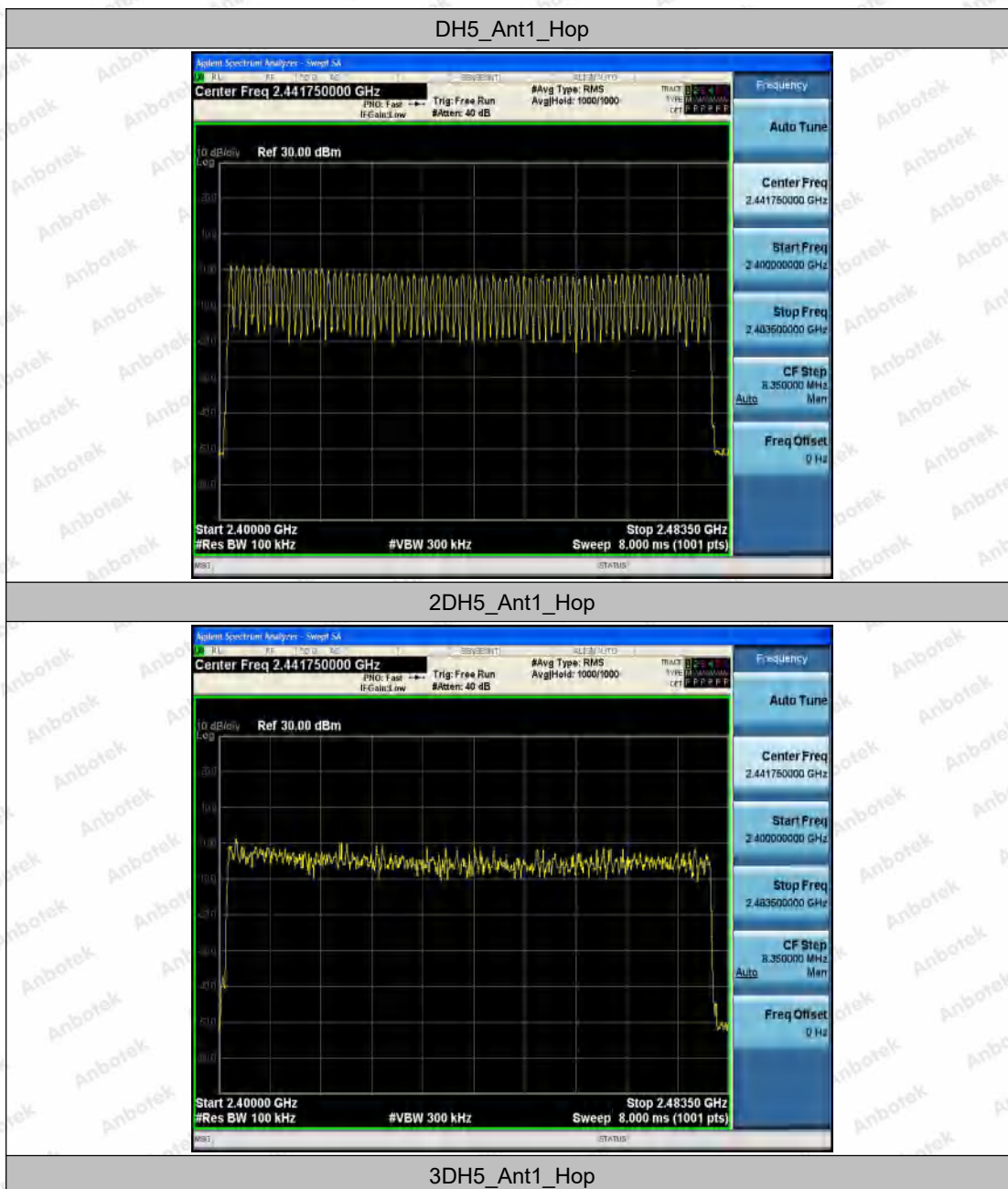
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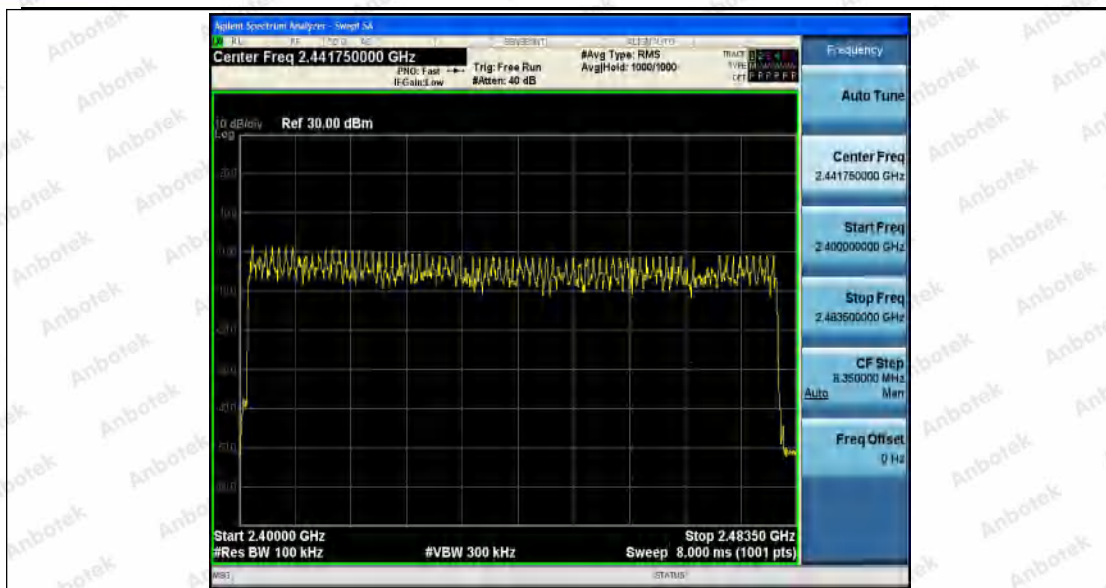
Appendix F: Number of hopping channels

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	1.37	-51.68	≤-18.63	PASS
		High	2480	-0.93	-57.36	≤-20.93	PASS
		Low	Hop	1.07	-58.77	≤-18.93	PASS
		High	Hop	-1.18	-61.95	≤-21.18	PASS
2DH5	Ant1	Low	2402	0.69	-55.63	≤-19.31	PASS
		High	2480	-0.94	-58.69	≤-20.94	PASS
		Low	Hop	1.05	-60.07	≤-18.95	PASS
		High	Hop	-1.13	-61.92	≤-21.13	PASS
3DH5	Ant1	Low	2402	1.42	-48.8	≤-18.58	PASS
		High	2480	-0.77	-59.14	≤-20.77	PASS
		Low	Hop	1.35	-58.92	≤-18.65	PASS
		High	Hop	-0.88	-59.94	≤-20.88	PASS

Test Graphs

DH5_Ant1_Low_2402



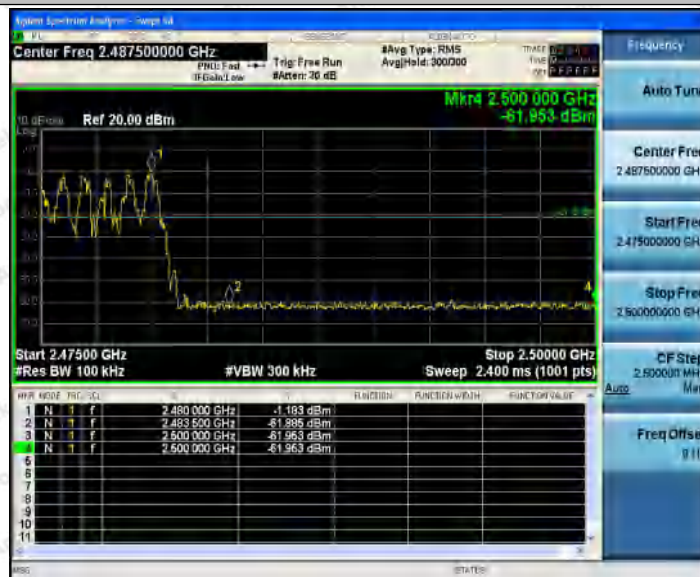
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



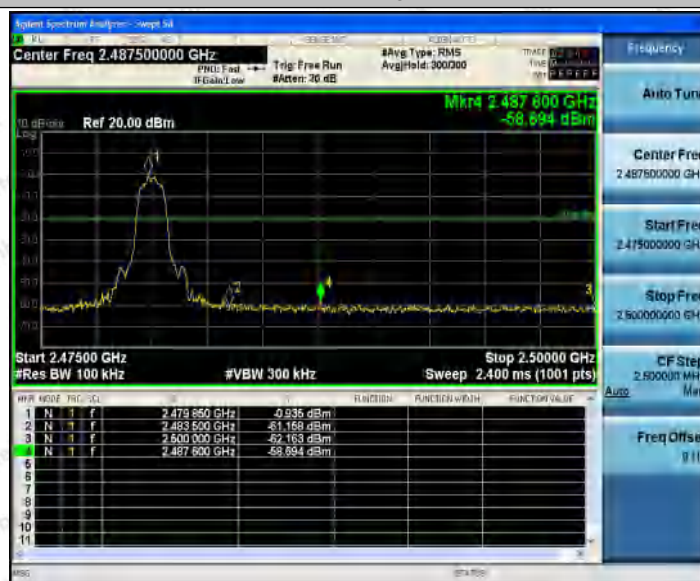
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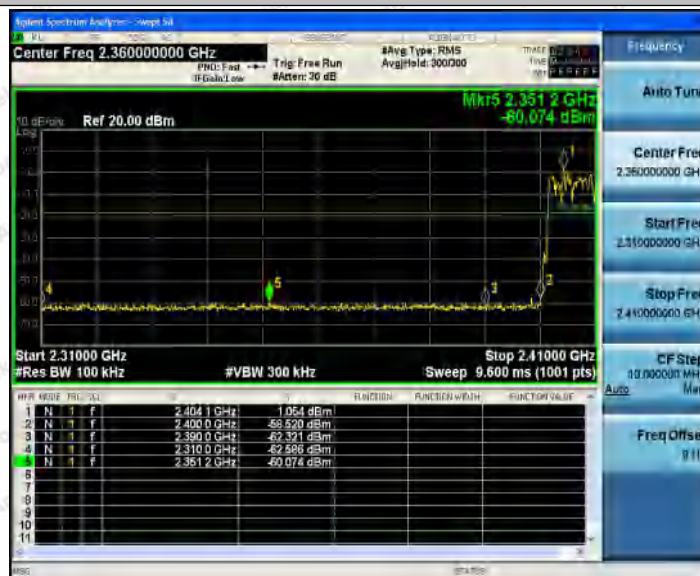
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2DH5_Ant1_High_2480



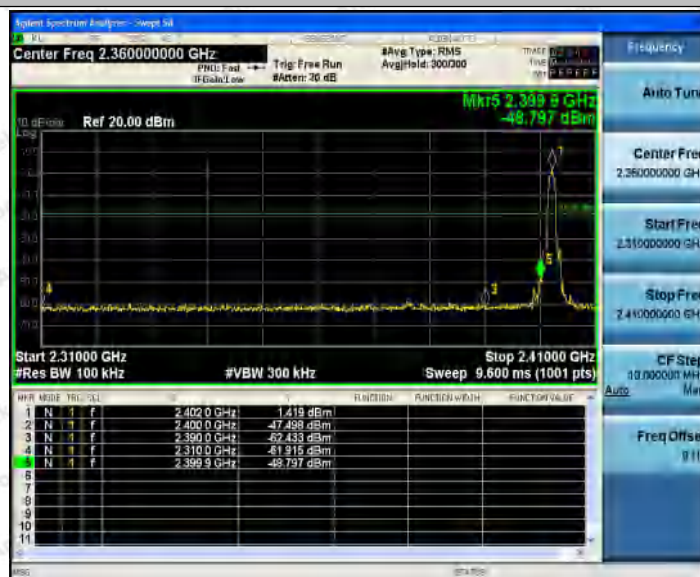
2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



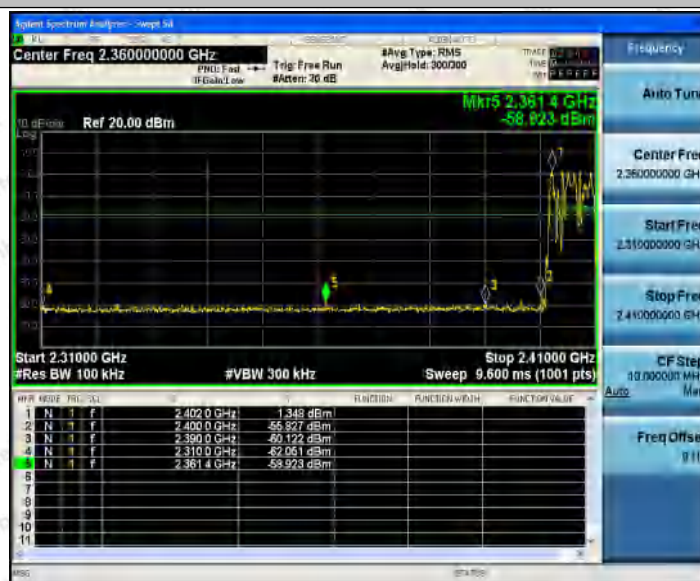
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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Appendix H: Conducted Spurious Emission

Test Result

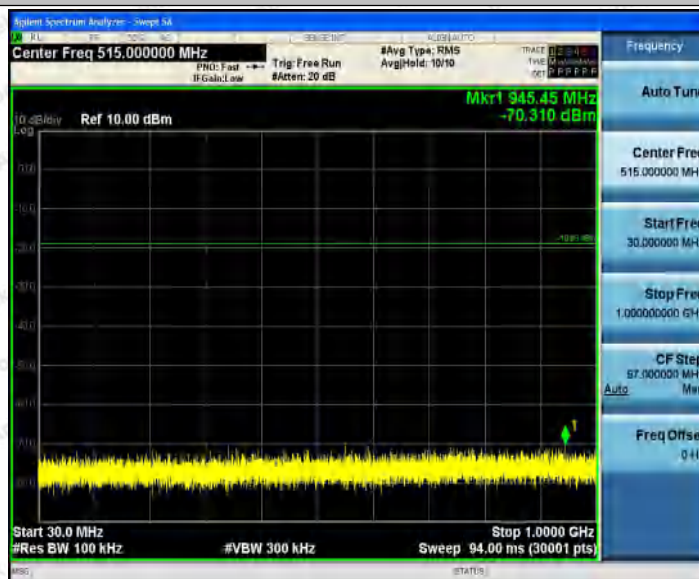
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-70.31	≤-18.88	PASS
			1000~26500	1.12	-42.87	≤-18.88	PASS
		2441	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-70.29	≤-21.71	PASS
			1000~26500	-1.71	-44.22	≤-21.71	PASS
		2480	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-70.02	≤-21.46	PASS
			1000~26500	-1.46	-43.18	≤-21.46	PASS
2DH5	Ant1	2402	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-70.14	≤-18.98	PASS
			1000~26500	1.02	-43.6	≤-18.98	PASS
		2441	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-69.93	≤-21.95	PASS
			1000~26500	-1.95	-47.63	≤-21.95	PASS
		2480	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-70.68	≤-21.61	PASS
			1000~26500	-1.61	-45.32	≤-21.61	PASS
3DH5	Ant1	2402	Reference	1.38	1.38	---	PASS
			30~1000	1.38	-70.07	≤-18.62	PASS
			1000~26500	1.38	-41.52	≤-18.62	PASS
		2441	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-70.75	≤-21.44	PASS
			1000~26500	-1.44	-44.58	≤-21.44	PASS
		2480	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-70.28	≤-20.82	PASS
			1000~26500	-0.82	-42.89	≤-20.82	PASS

Test Graphs

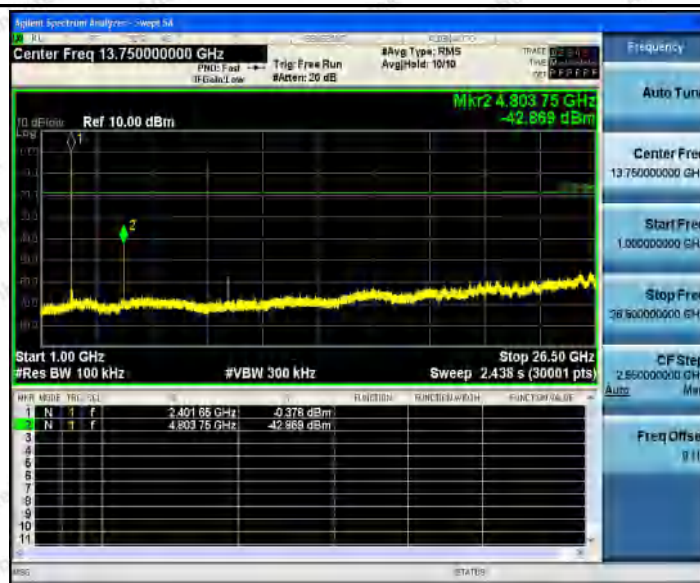
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



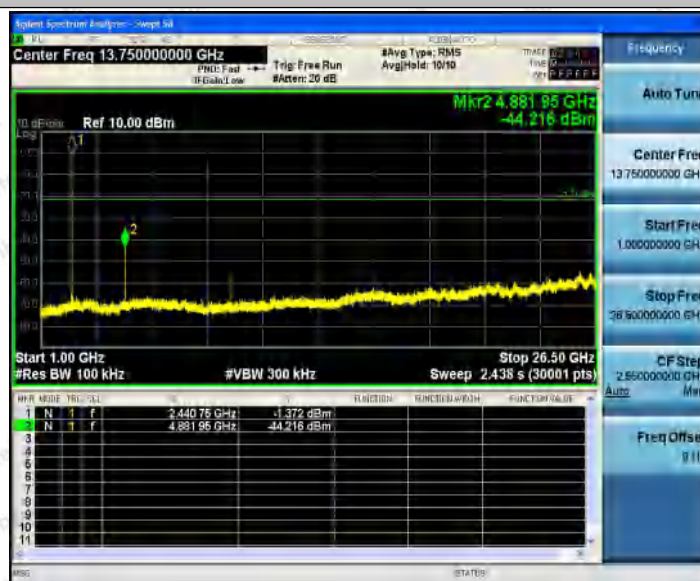
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



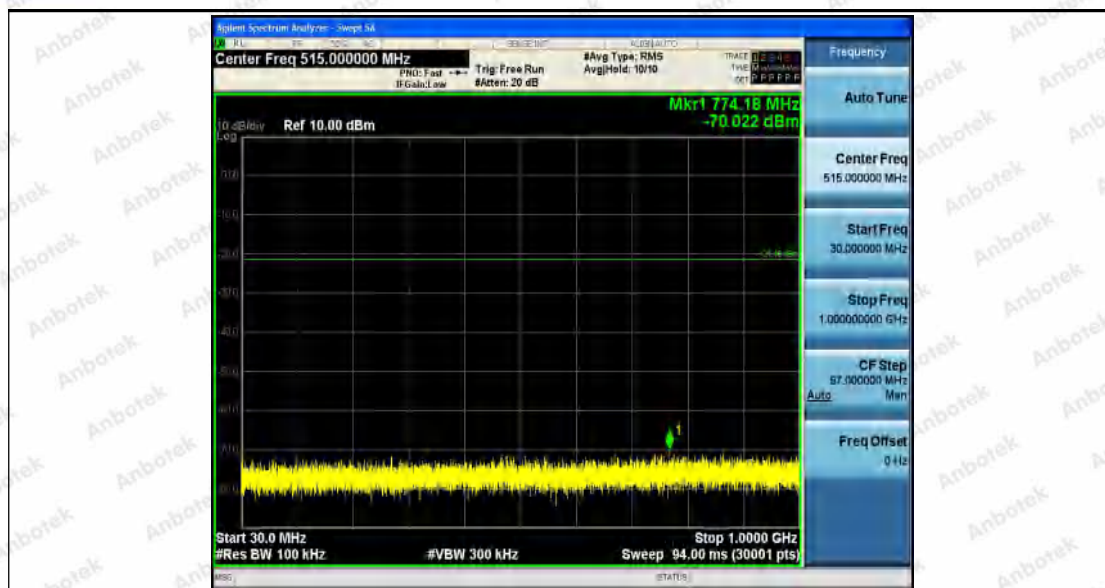
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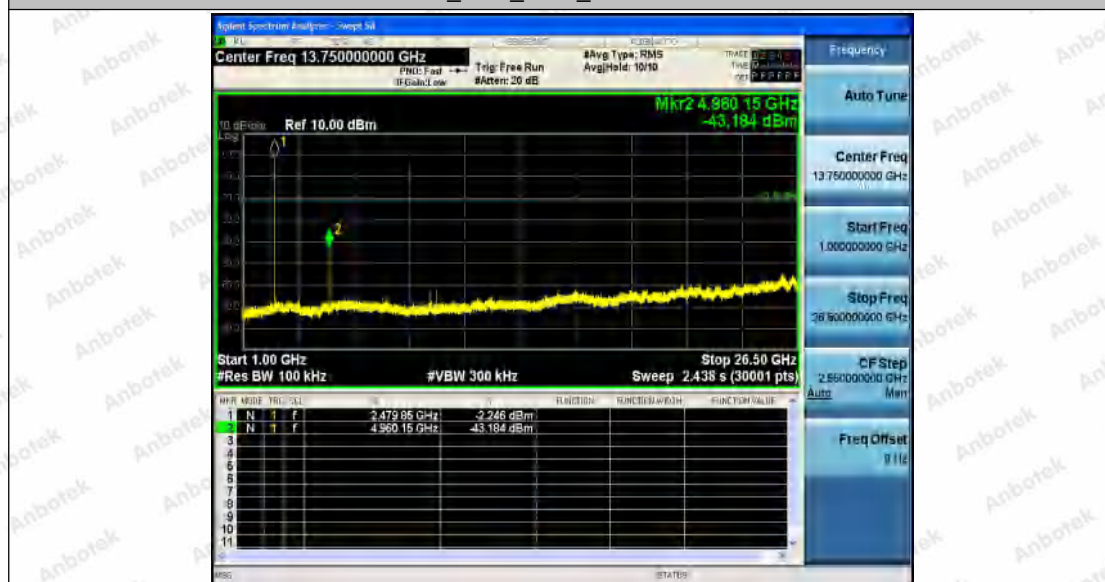
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

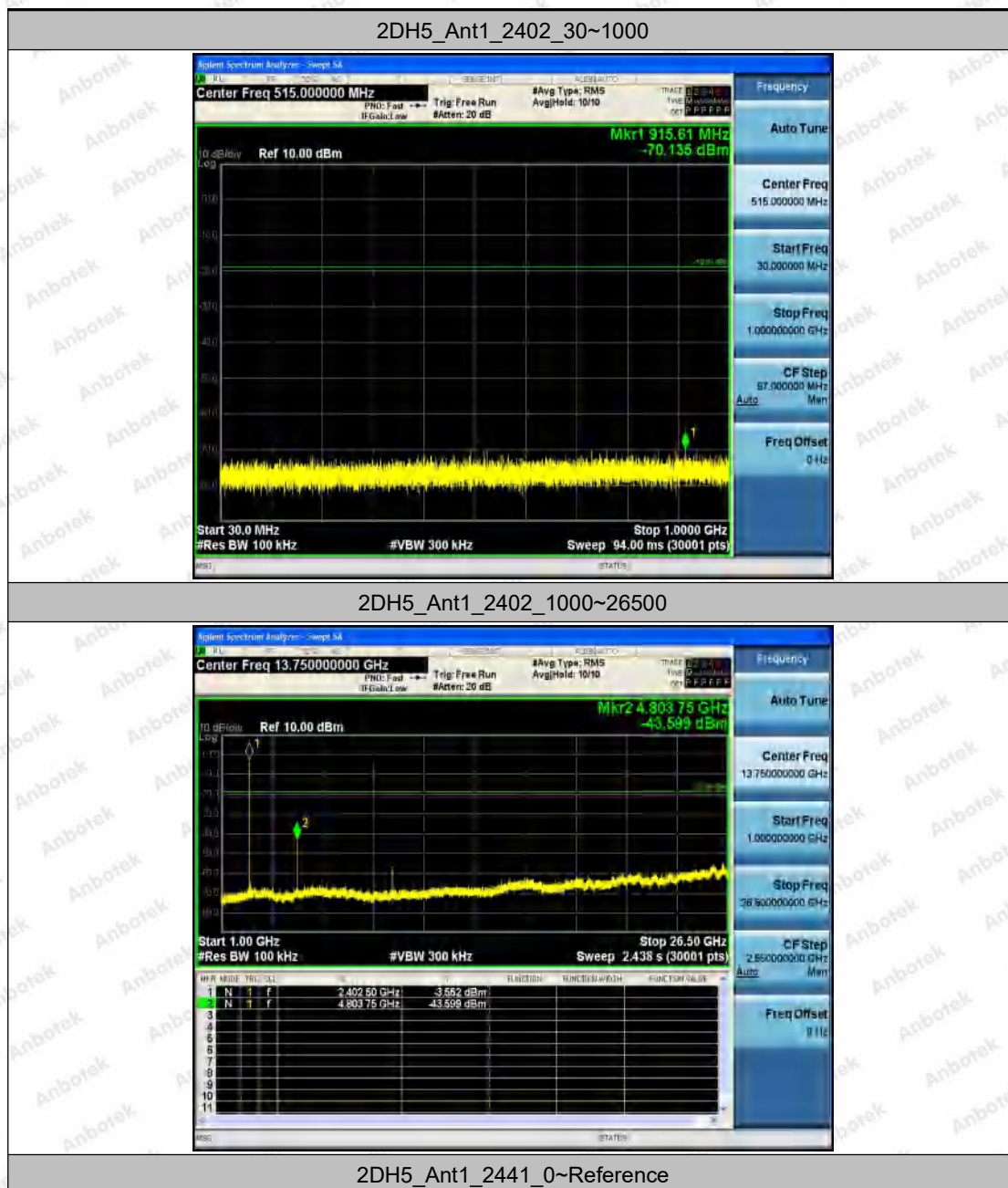


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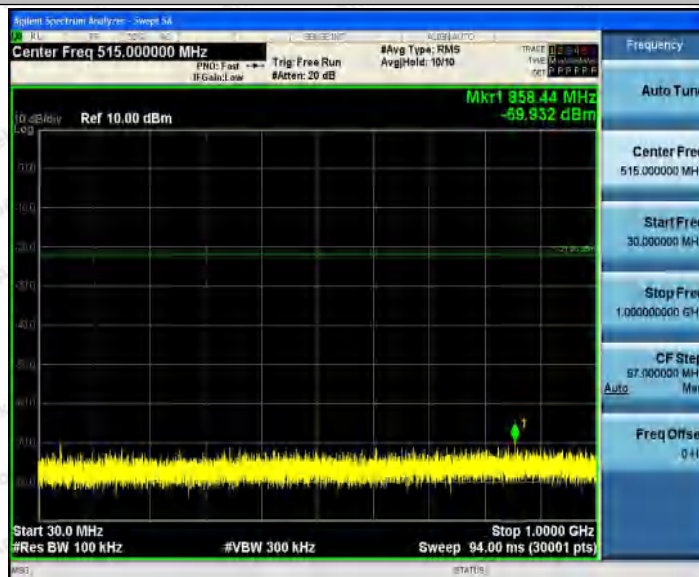
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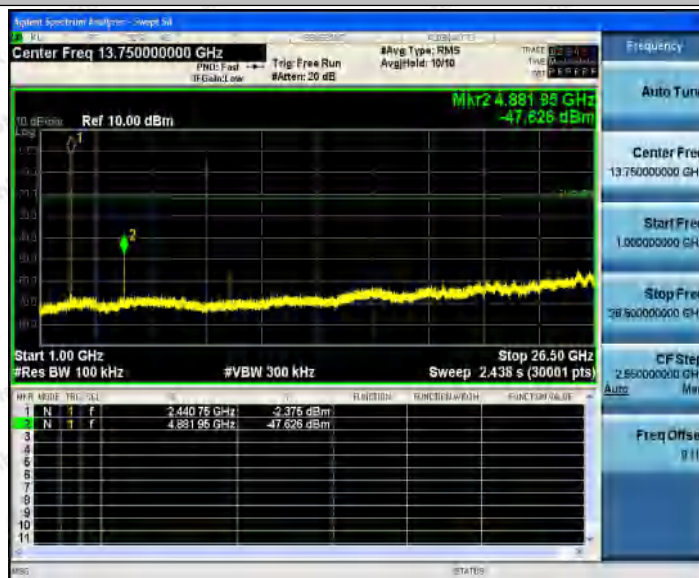
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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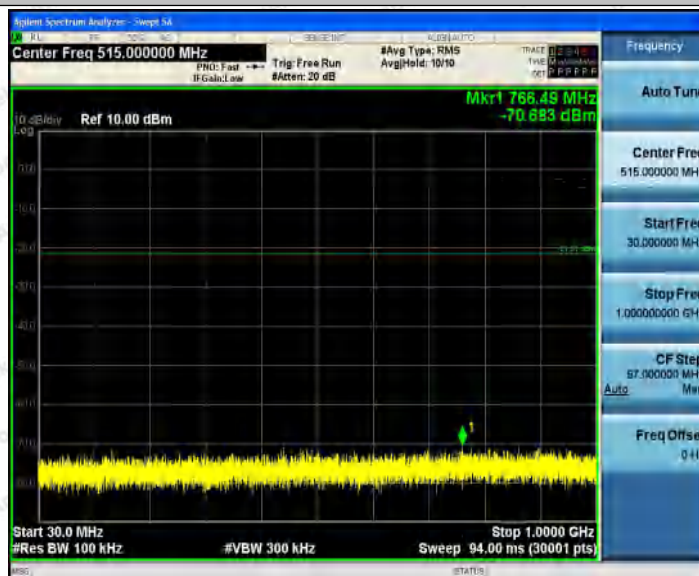
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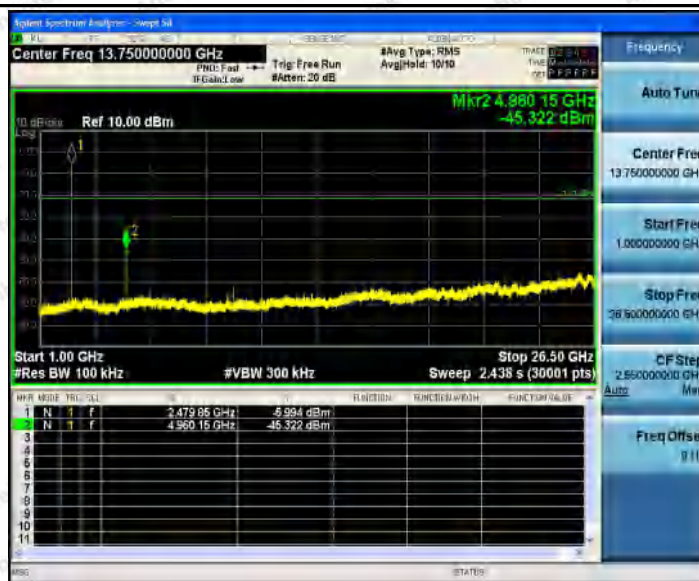
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2DH5_Ant1_2480_30~1000



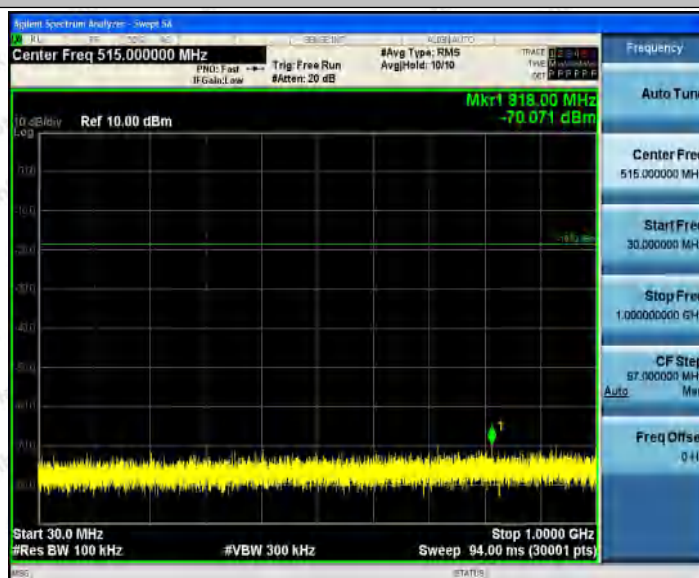
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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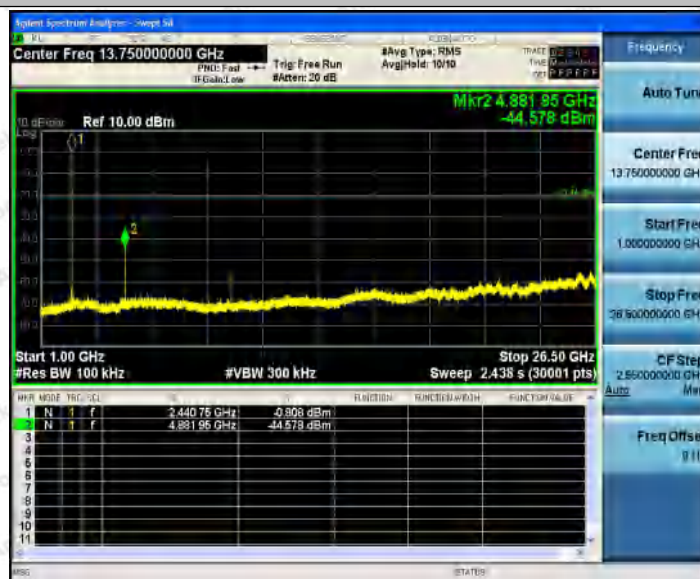
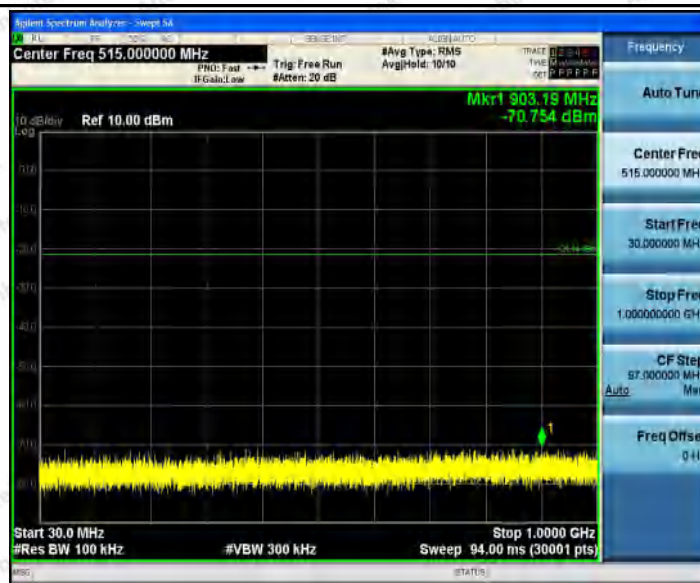
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

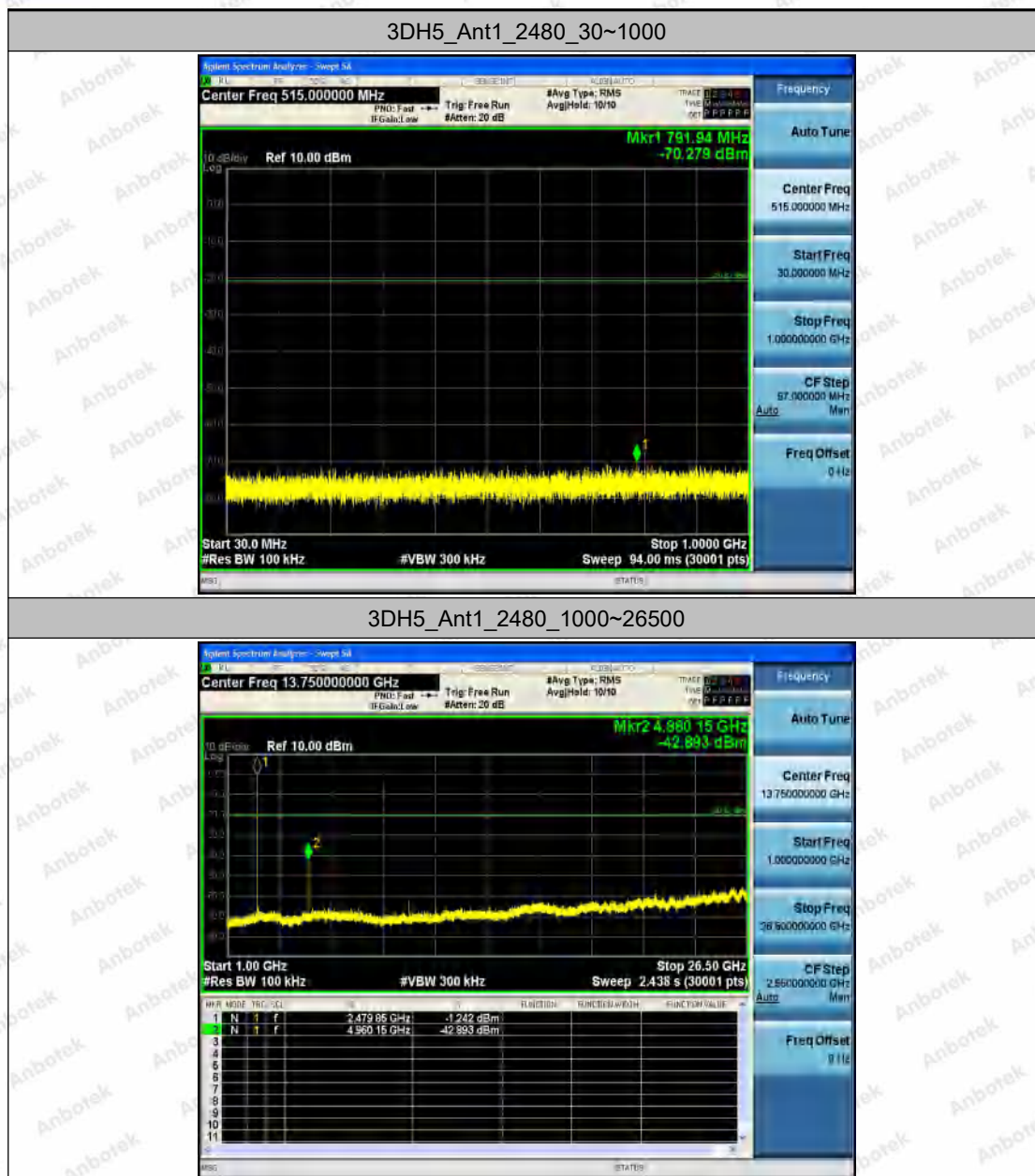


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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	0.773 3	77.33	1.12	---	PASS
2DH5	Ant1	2402	2.91	3.75	0.776 0	77.60	1.10	---	PASS
3DH5	Ant1	2402	2.92	3.76	0.776 6	77.66	1.10	---	PASS

Test Graphs

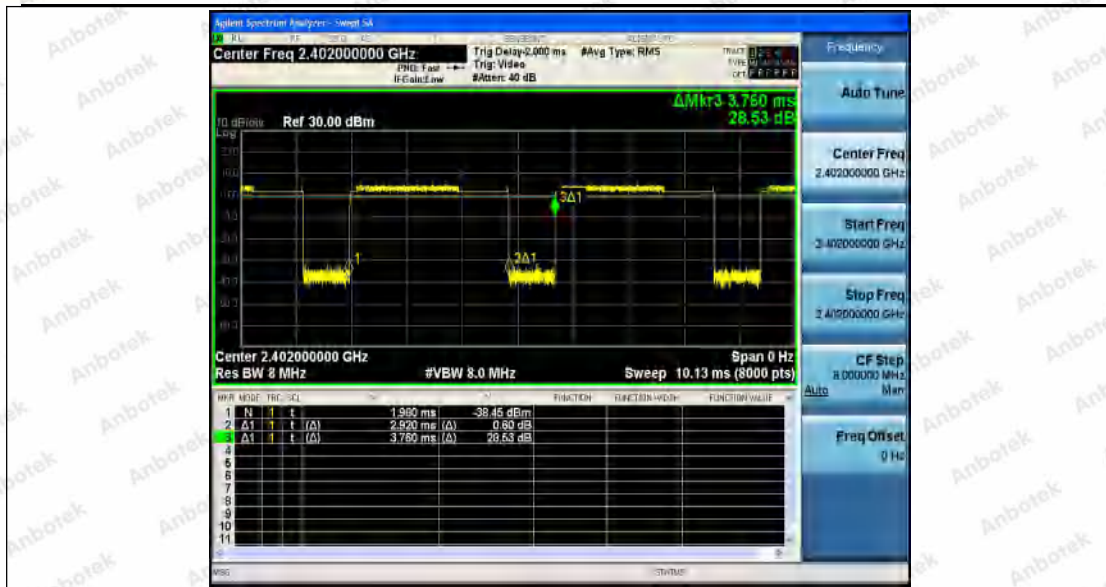
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---