

Appendix Test Data

Project No.:	18220WC10199701	Test Date:	2021.9.2
Test Engineer:	<i>Jomy He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	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	1.119	2401.436	2402.555	---	PASS
		2441	1.125	2440.430	2441.555	---	PASS
		2480	1.149	2479.415	2480.564	---	PASS
2DH5	Ant1	2402	1.371	2401.304	2402.675	---	PASS
		2441	1.377	2440.304	2441.681	---	PASS
		2480	1.359	2479.310	2480.669	---	PASS
3DH5	Ant1	2402	1.389	2401.307	2402.696	---	PASS
		2441	1.395	2440.301	2441.696	---	PASS
		2480	1.383	2479.307	2480.690	---	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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3DH5_Ant1_2480



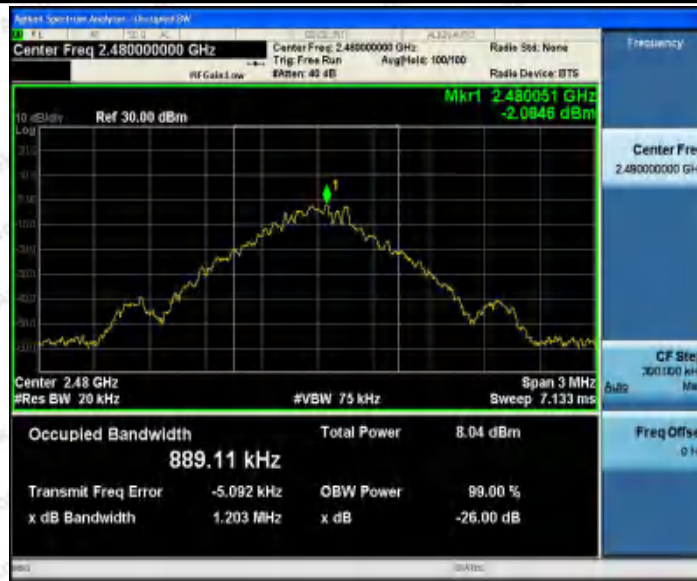
Appendix B: Occupied Channel Bandwidth

Test Result

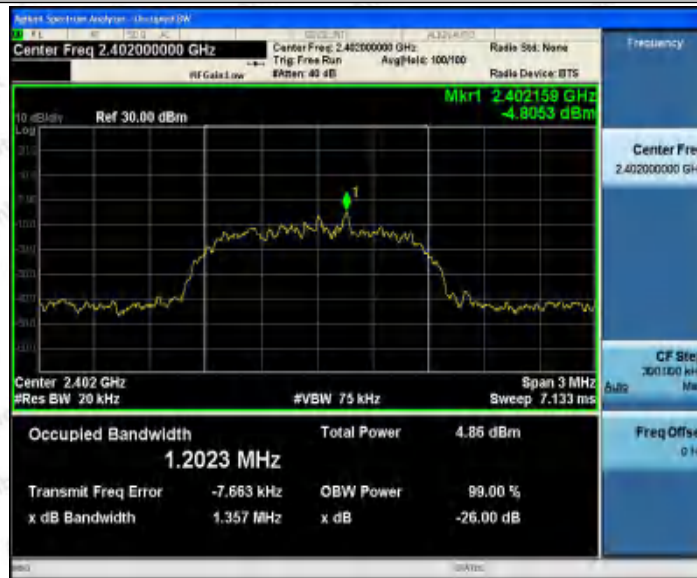
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89021	2401.54 7	2402.438	---	PASS
		2441	0.89617	2440.54 7	2441.443	---	PASS
		2480	0.88911	2479.55 0	2480.439	---	PASS
2DH5	Ant1	2402	1.2023	2401.39 1	2402.593	---	PASS
		2441	1.1880	2440.40 0	2441.588	---	PASS
		2480	1.1982	2479.39 5	2480.593	---	PASS
3DH5	Ant1	2402	1.2131	2401.37 8	2402.591	---	PASS
		2441	1.2042	2440.38 3	2441.587	---	PASS
		2480	1.1940	2479.39 1	2480.585	---	PASS

Test Graphs

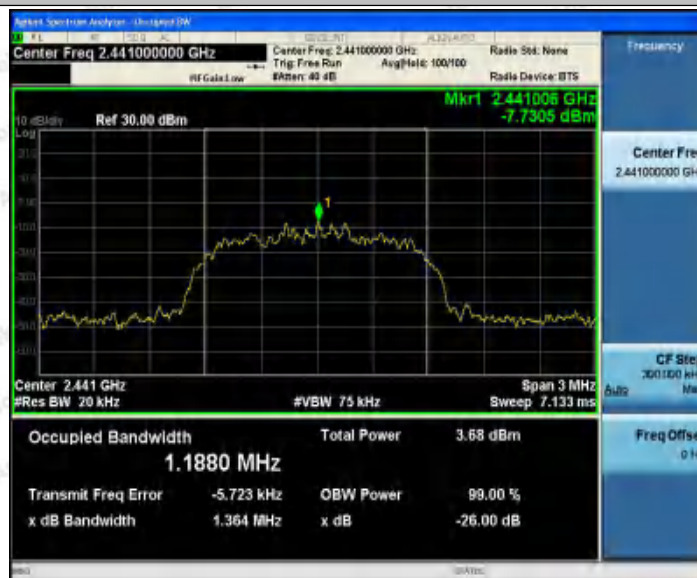




2DH5_Ant1_2402



2DH5_Ant1_2441



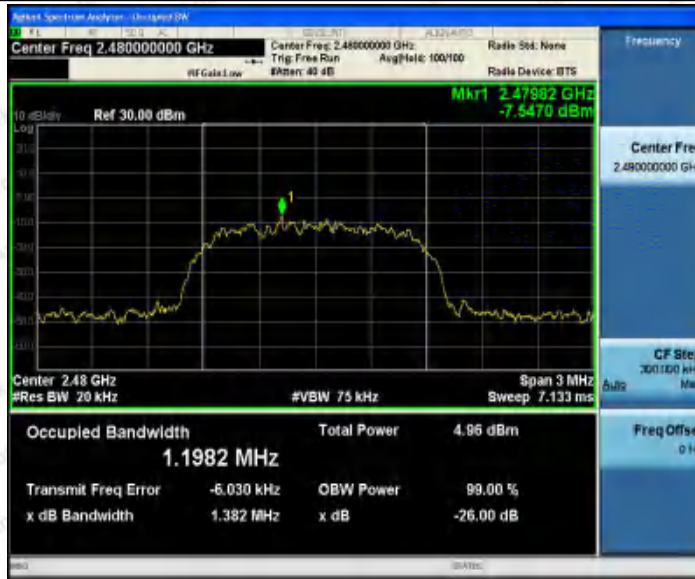
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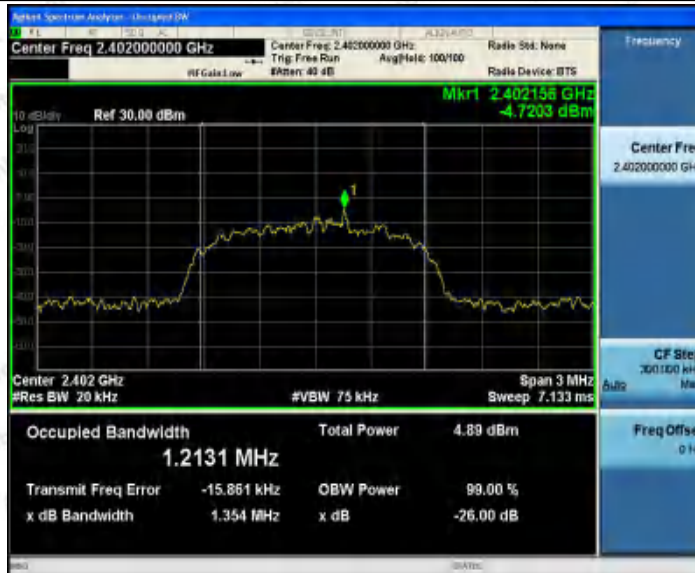
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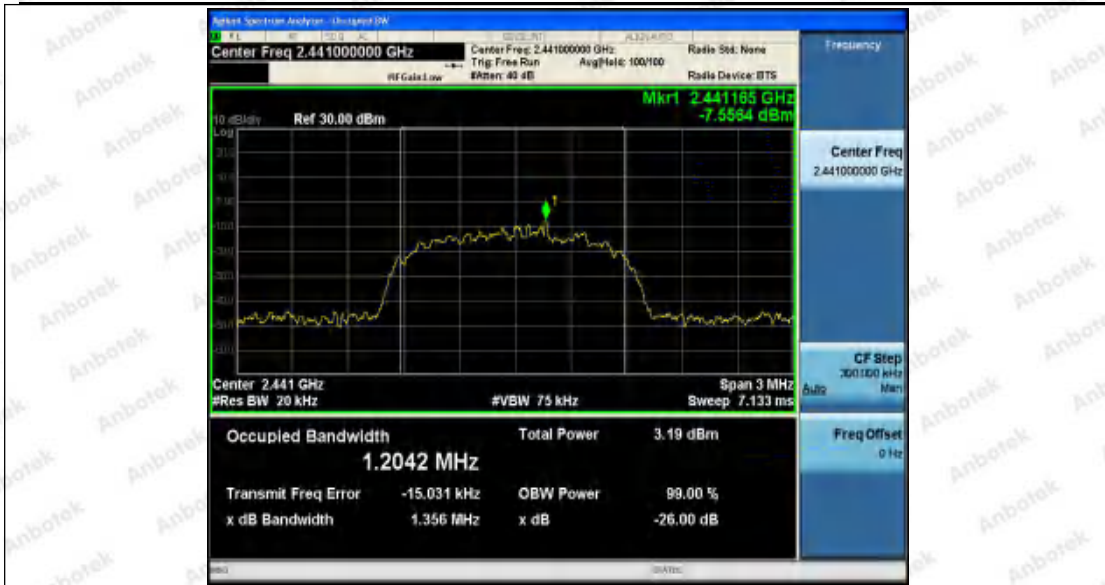
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



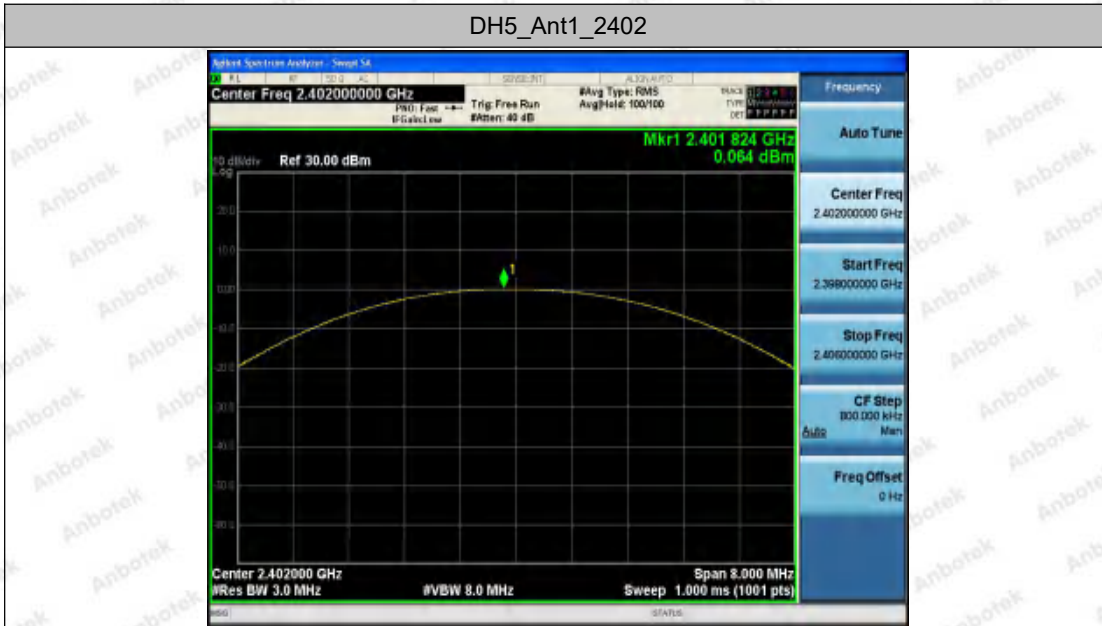
Appendix C: Maximum conducted output power

Test Result

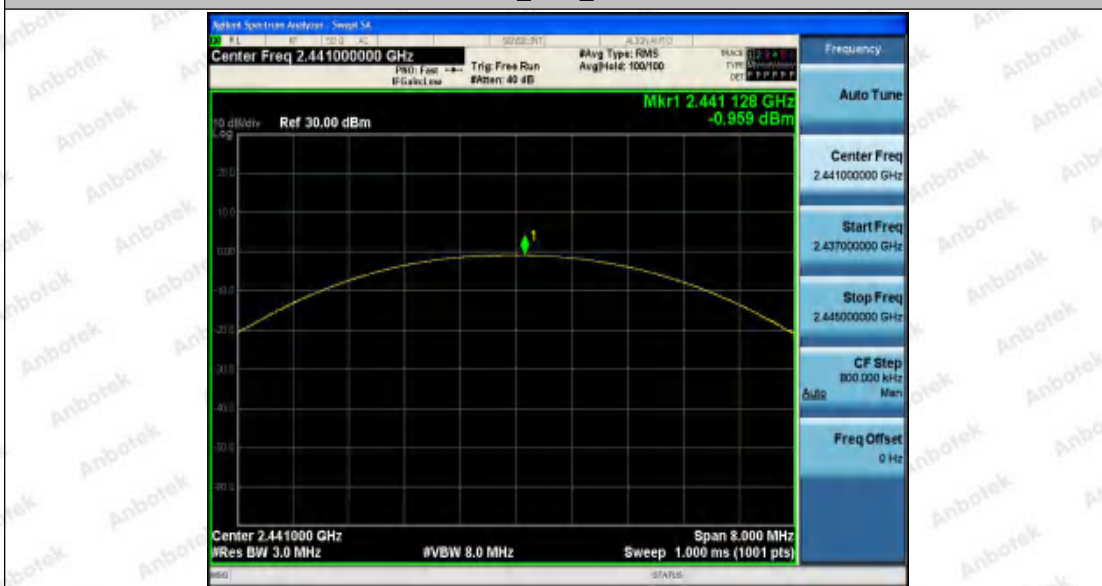
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.06	≤20.97	PASS
		2441	-0.96	≤20.97	PASS
		2480	1.49	≤20.97	PASS
2DH5	Ant1	2402	-0.49	≤20.97	PASS
		2441	-1.72	≤20.97	PASS
		2480	0.62	≤20.97	PASS
3DH5	Ant1	2402	-0.4	≤20.97	PASS
		2441	-1.78	≤20.97	PASS
		2480	0.67	≤20.97	PASS

Test Graphs

DH5_Ant1_2402



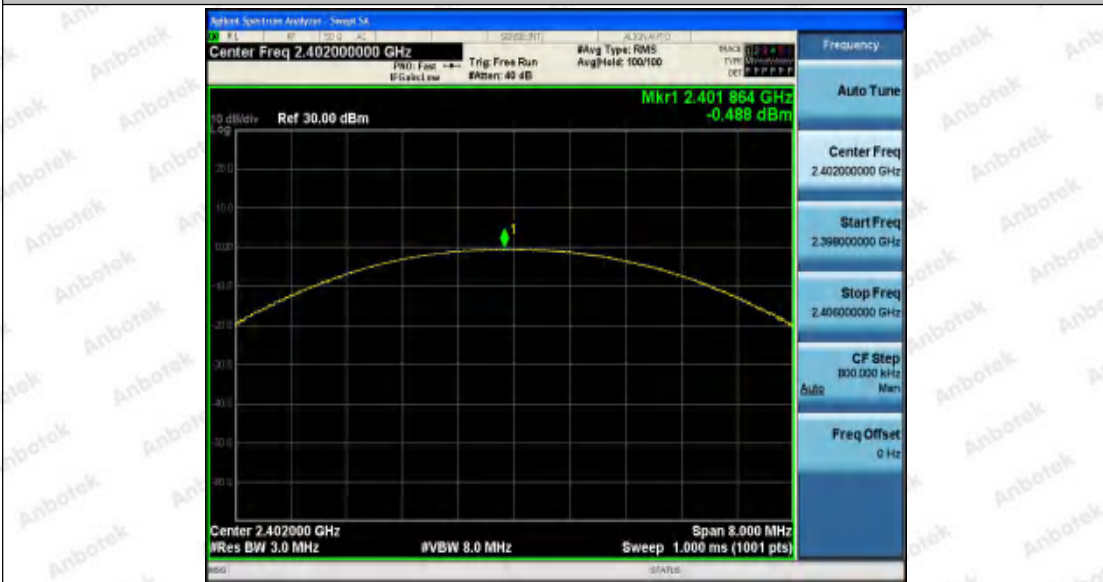
DH5_Ant1_2441



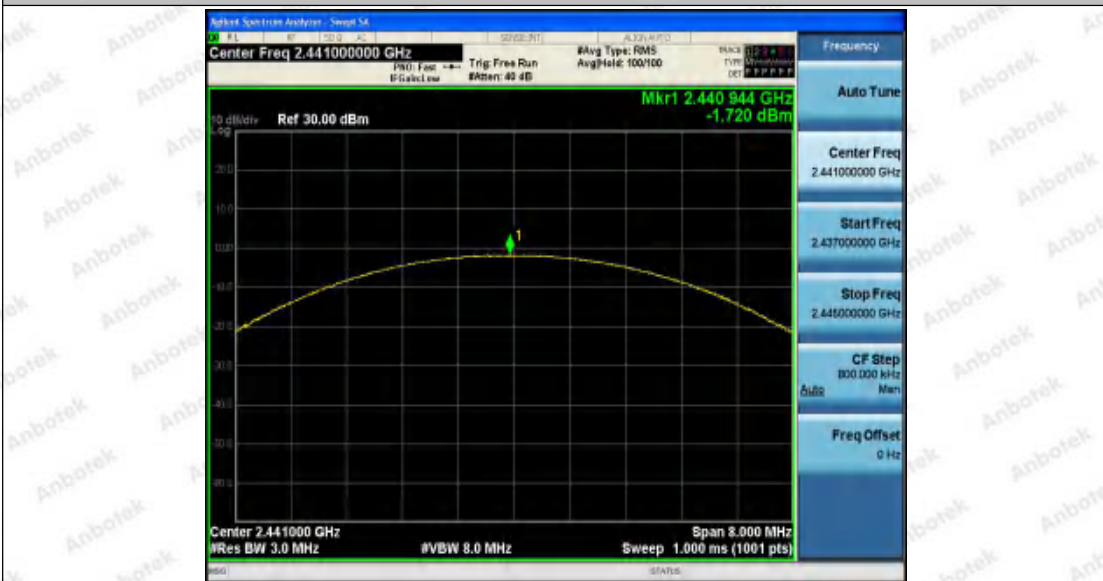
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



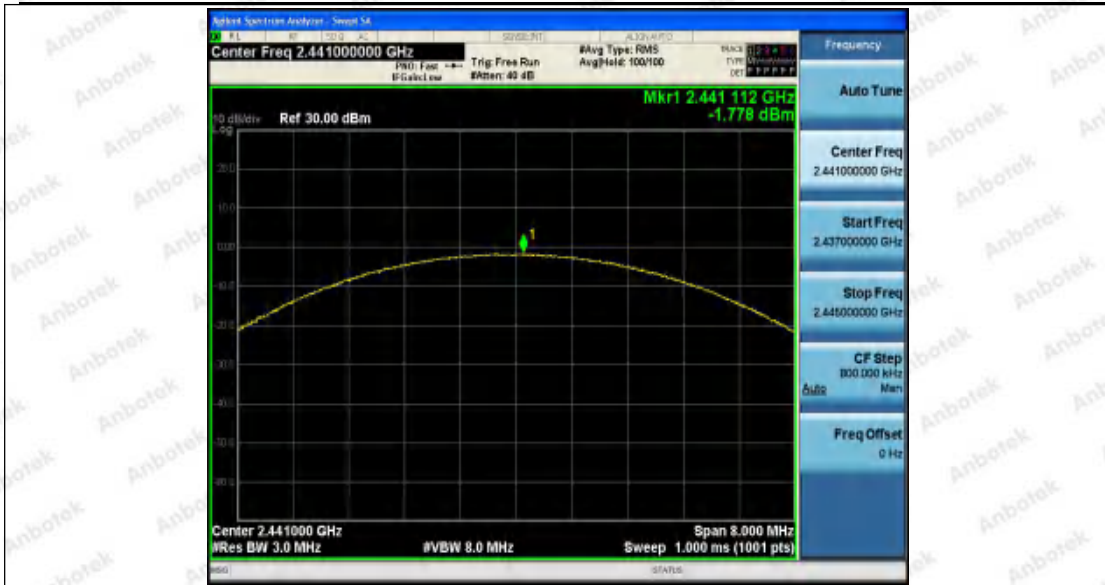
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3DH5_Ant1_2480



Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.256	≥ 1.149	PASS
2DH5	Ant1	Hop	1.028	≥ 0.918	PASS
3DH5	Ant1	Hop	1.238	≥ 0.930	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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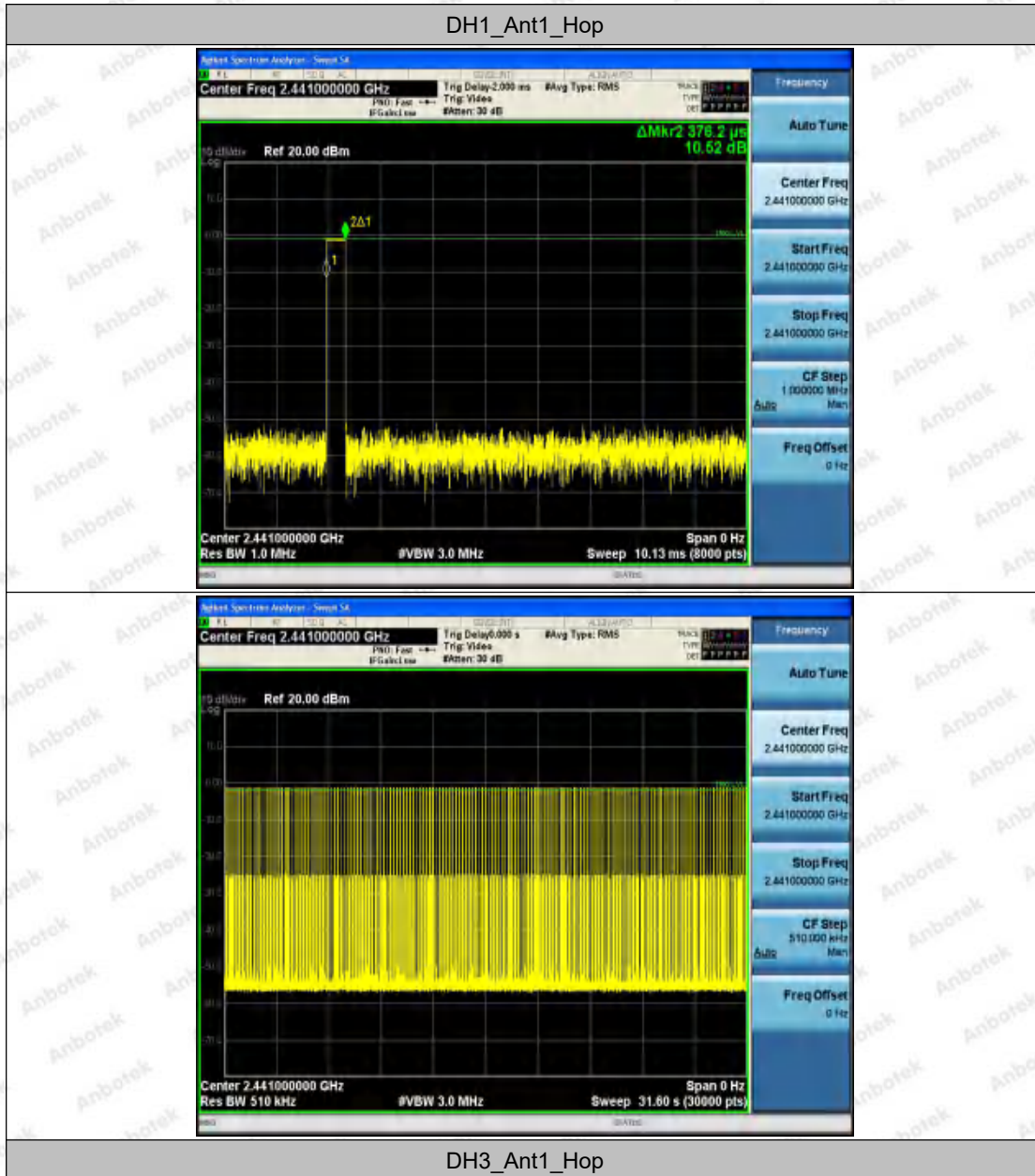
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	94	0.271	≤0.4	PASS
3DH1	Ant1	Hop	0.39	313	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.89	99	0.286	≤0.4	PASS

Test Graphs





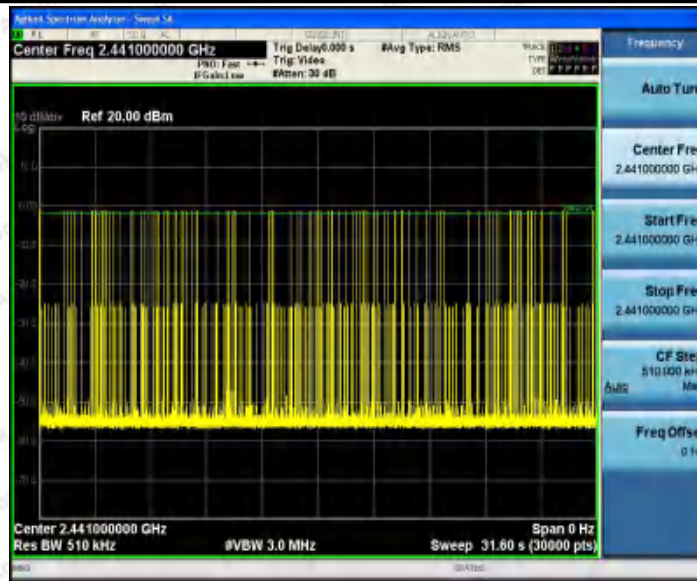
DH5_Ant1_Hop

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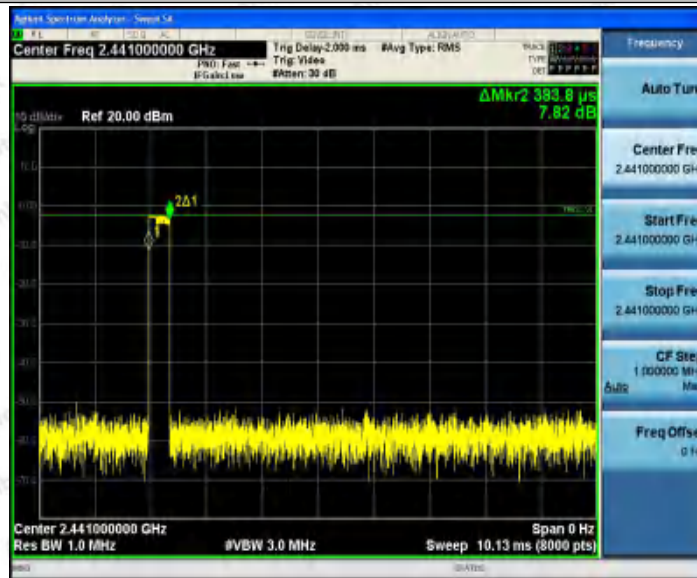
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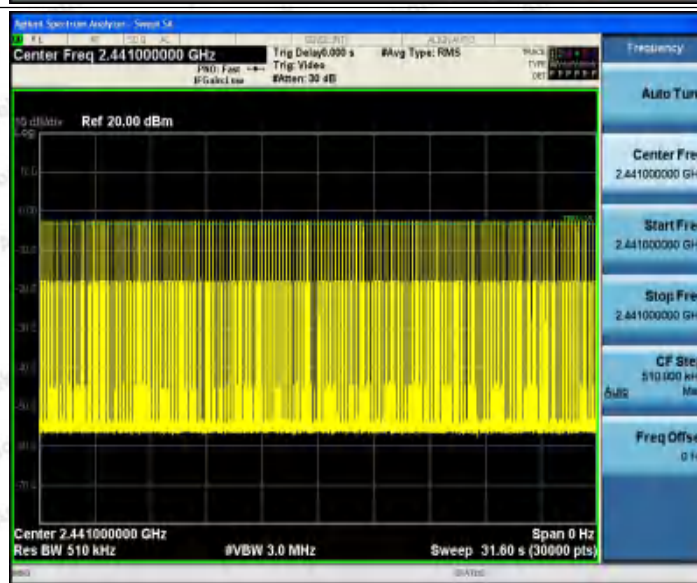
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2DH1_Ant1_Hop



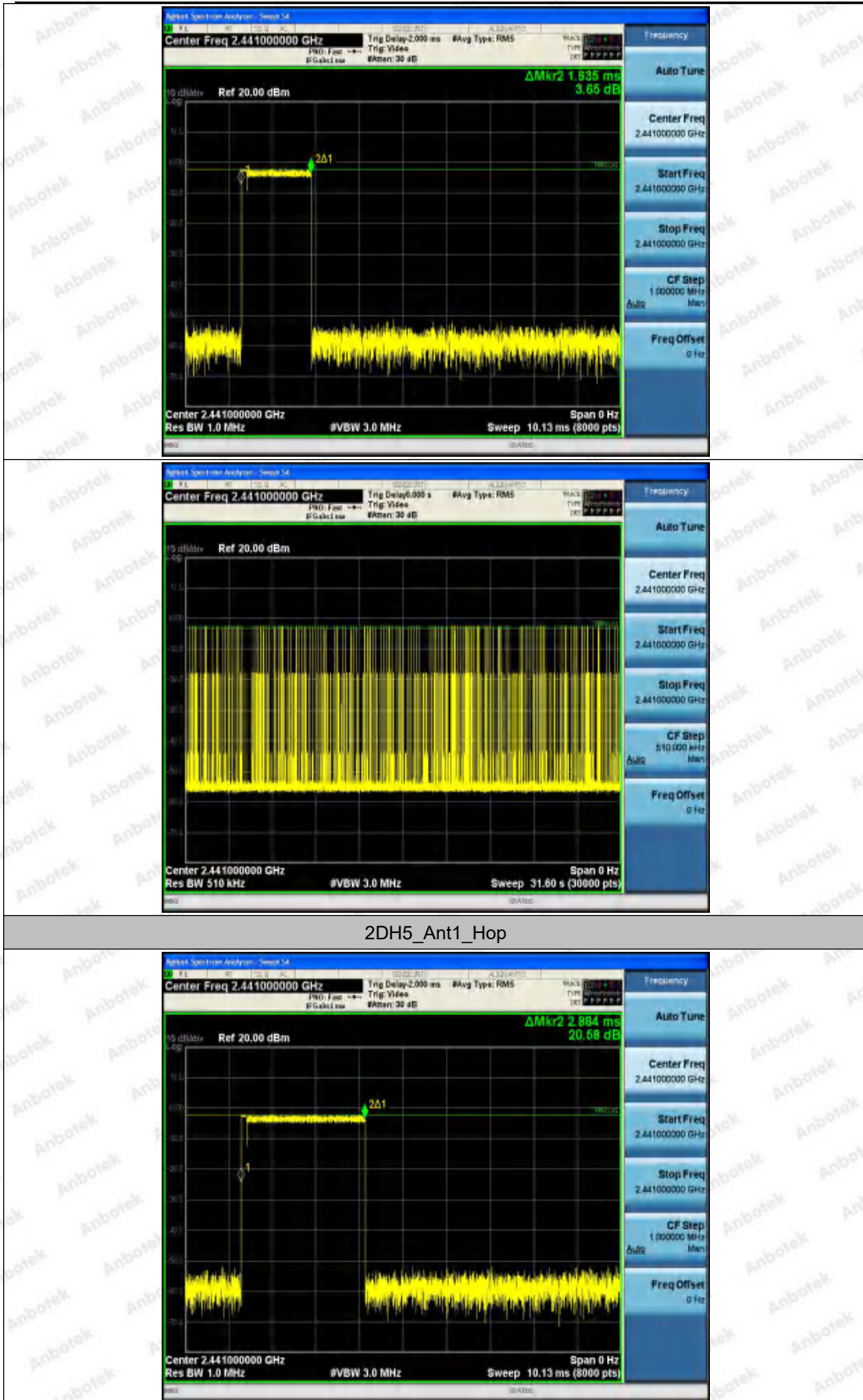
2DH3_Ant1_Hop



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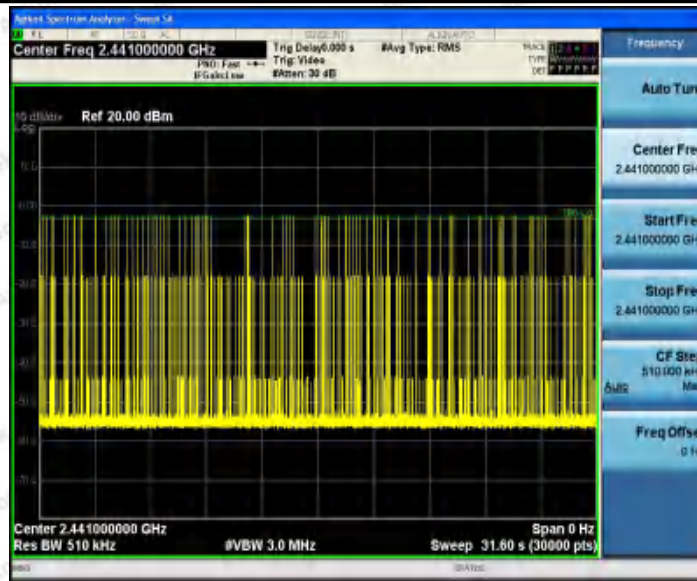
2DH5_Ant1_Hop

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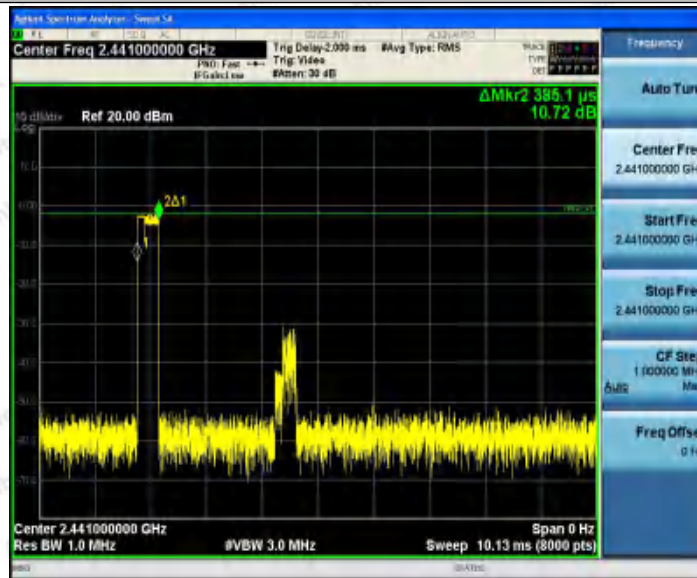
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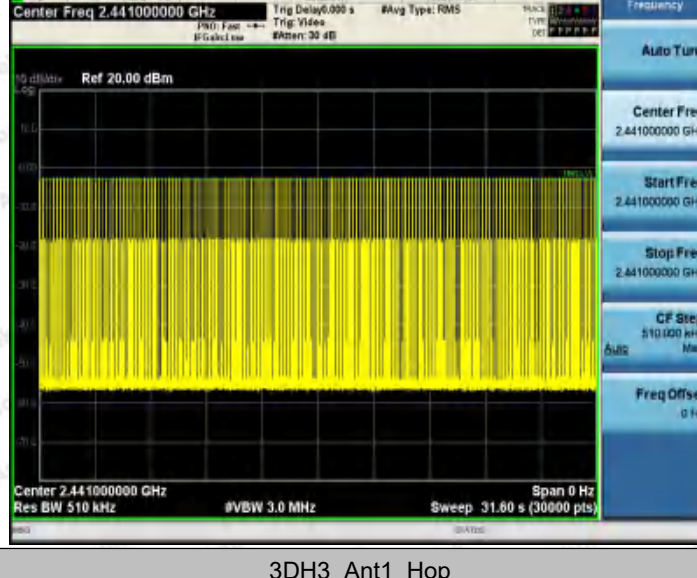
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3DH1_Ant1_Hop



3DH1_Ant1_Hop

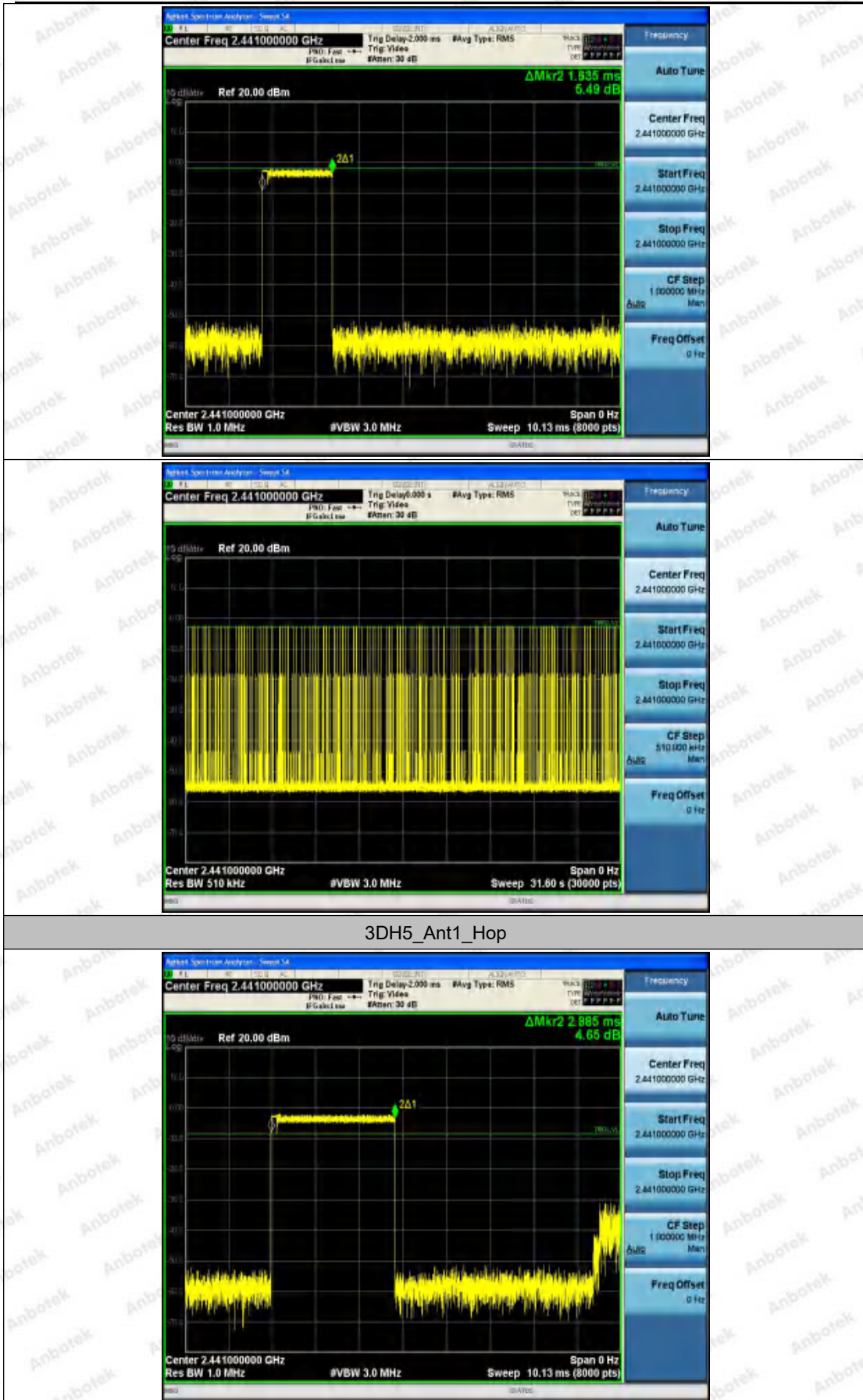


3DH3_Ant1_Hop

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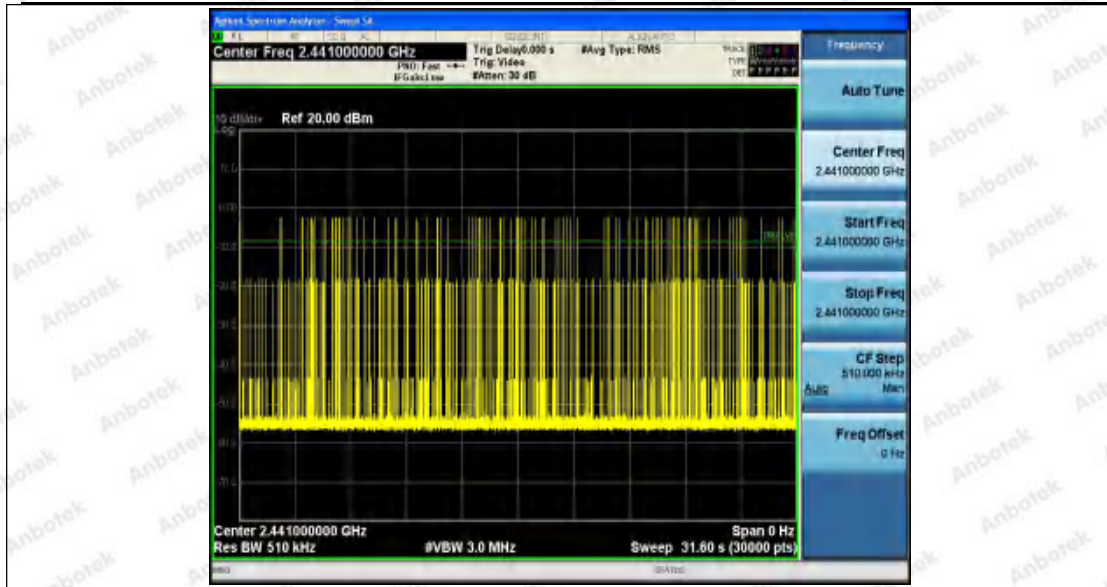
3DH5_Ant1_Hop

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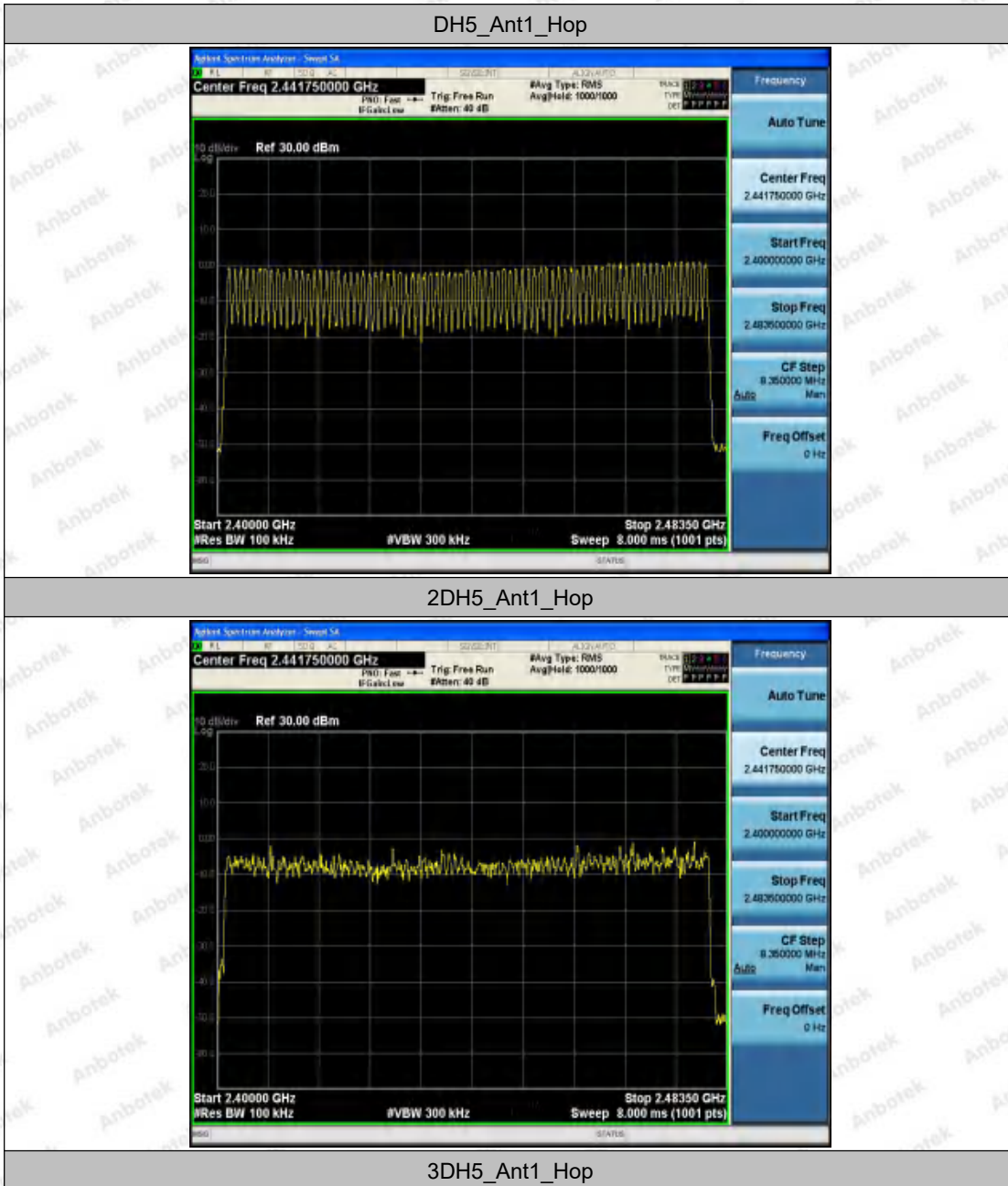
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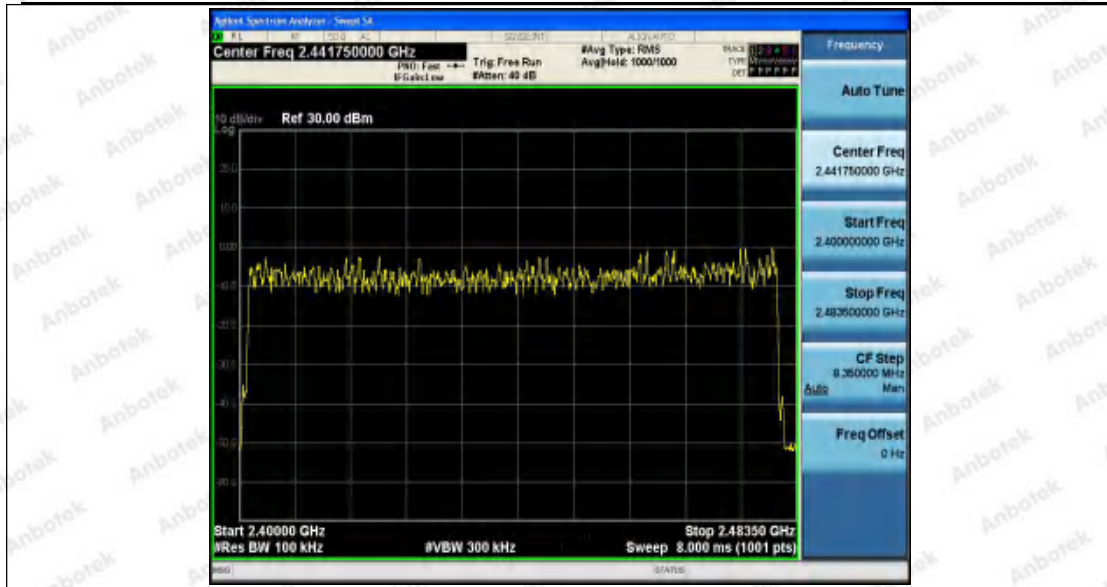
Appendix F: Number of hopping channels

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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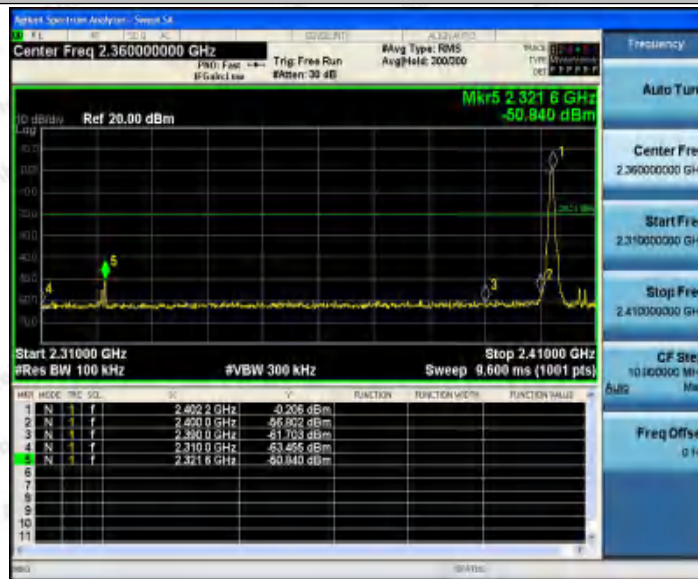
Appendix G: Band edge measurements

Test Result

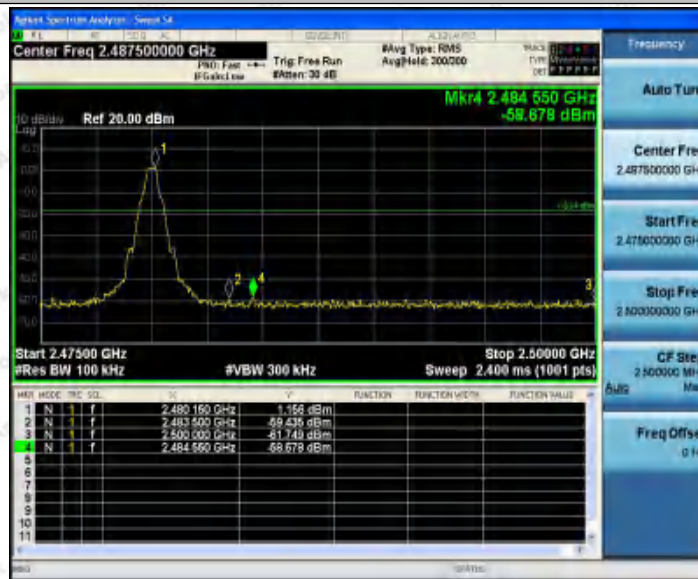
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.21	-50.84	≤-20.21	PASS
		High	2480	1.16	-58.68	≤-18.84	PASS
		Low	Hop	-0.77	-59.9	≤-20.77	PASS
		High	Hop	0.59	-61.63	≤-19.41	PASS
2DH5	Ant1	Low	2402	-1.53	-54.86	≤-21.53	PASS
		High	2480	-0.47	-57.85	≤-20.47	PASS
		Low	Hop	-4.09	-59.52	≤-24.09	PASS
		High	Hop	-2.57	-62.71	≤-22.57	PASS
3DH5	Ant1	Low	2402	-1.43	-57.1	≤-21.43	PASS
		High	2480	-1.15	-59.41	≤-21.15	PASS
		Low	Hop	-4.12	-59.9	≤-24.12	PASS
		High	Hop	-3.78	-61.22	≤-23.78	PASS

Test Graphs

DH5_Ant1_Low_2402



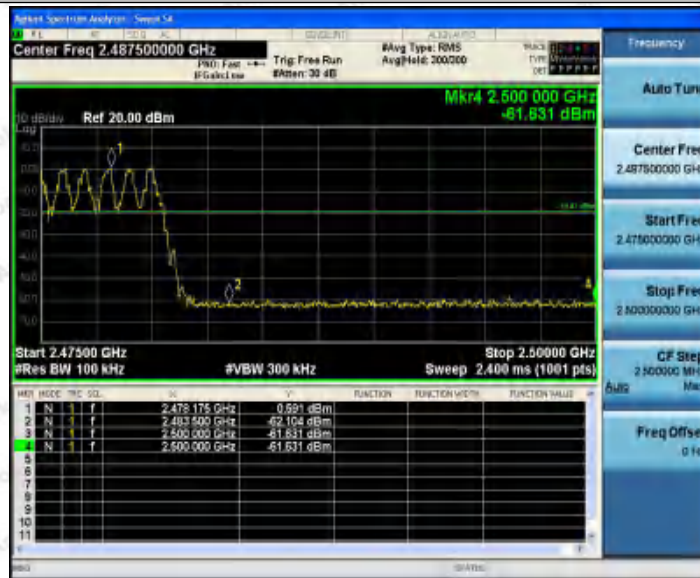
DH5_Ant1_High_2480



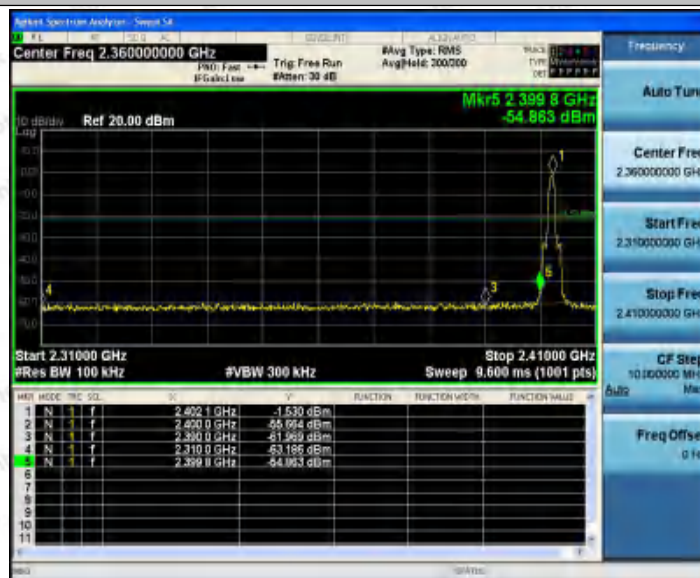
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

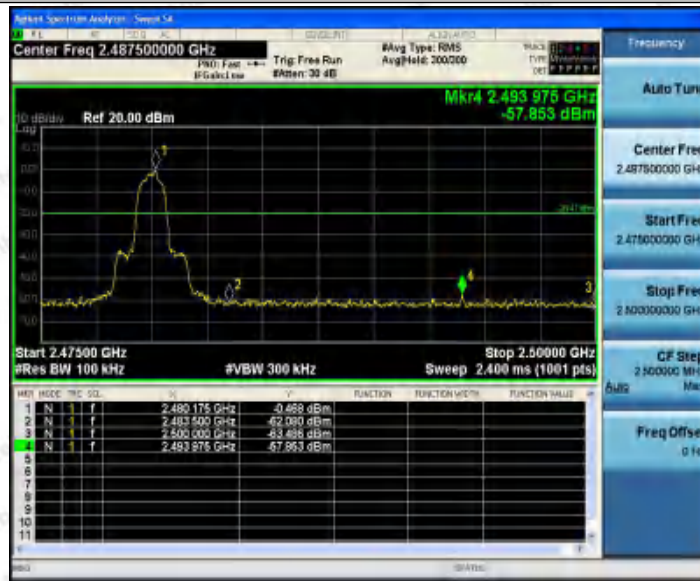


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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



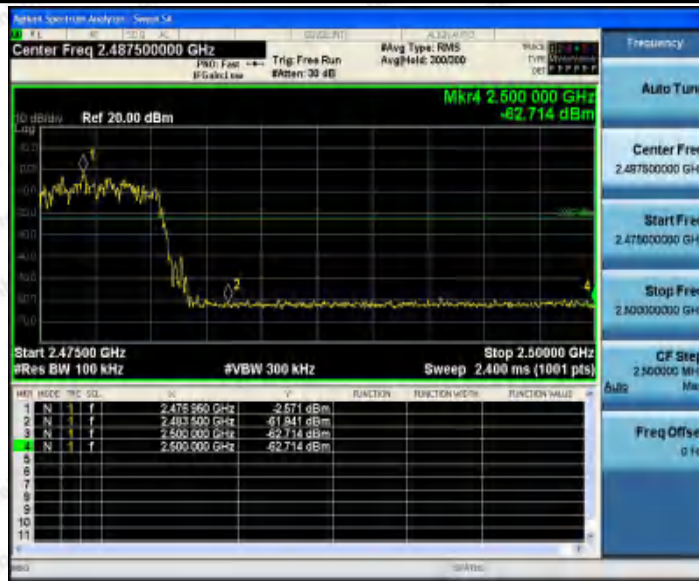
2DH5_Ant1_High_Hop

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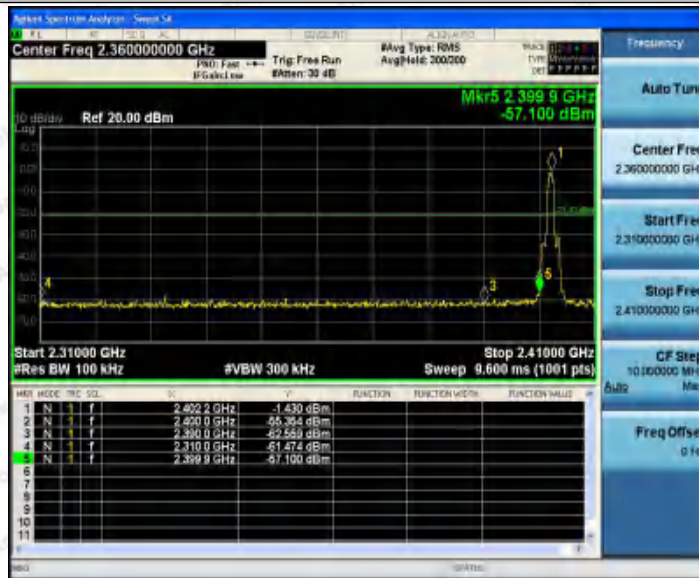
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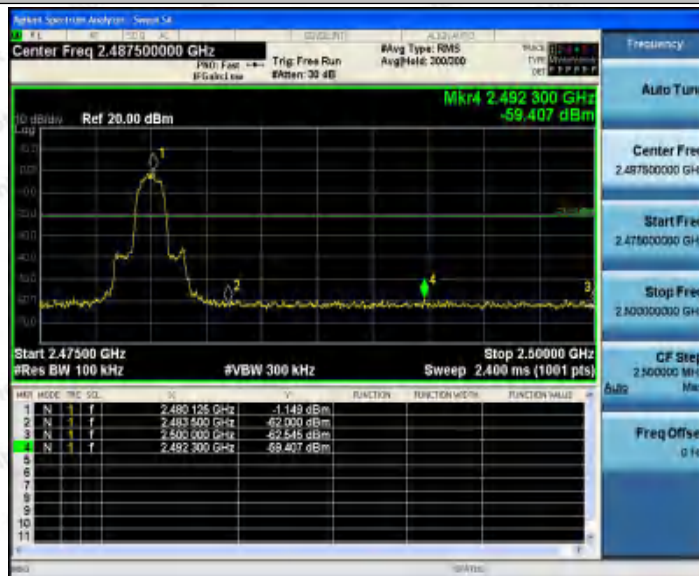
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



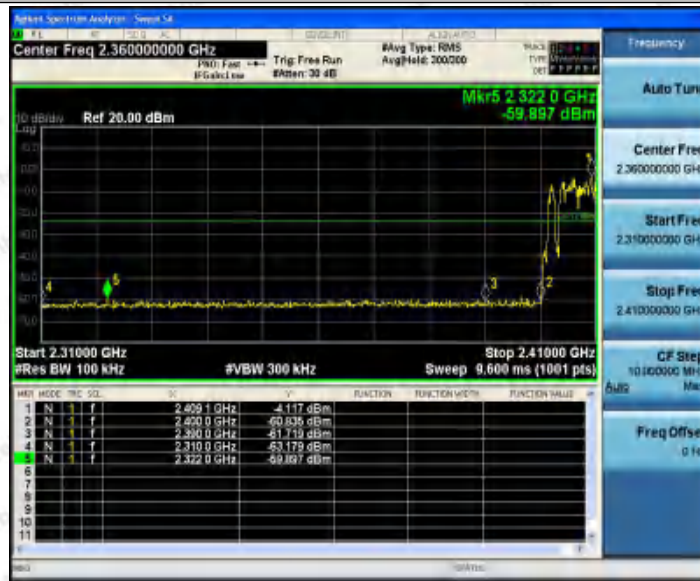
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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Appendix H: Conducted Spurious Emission

Test Result

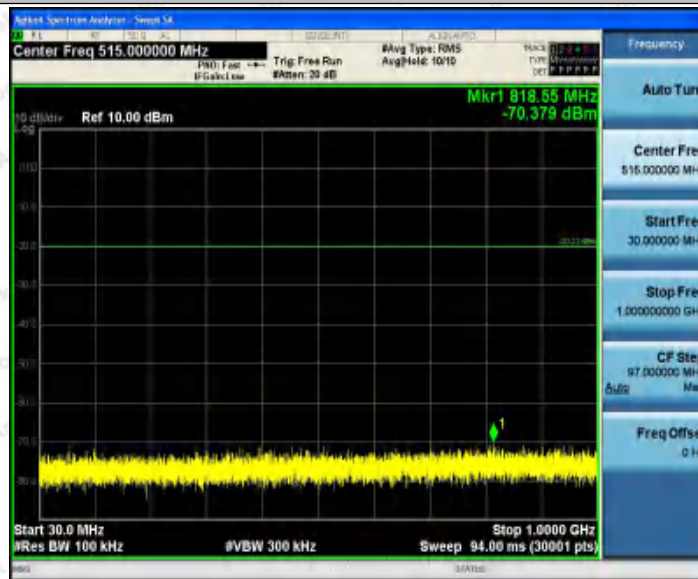
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.22	-0.22	---	PASS
			30~1000	-0.22	-70.38	≤-20.22	PASS
			1000~26500	-0.22	-40.42	≤-20.22	PASS
		2441	Reference	-1.70	-1.70	---	PASS
			30~1000	-1.70	-70.02	≤-21.7	PASS
			1000~26500	-1.70	-41	≤-21.7	PASS
		2480	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-69.69	≤-19.36	PASS
			1000~26500	0.64	-44.64	≤-19.36	PASS
2DH5	Ant1	2402	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-70.42	≤-21.37	PASS
			1000~26500	-1.37	-44.69	≤-21.37	PASS
		2441	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-70.51	≤-22.69	PASS
			1000~26500	-2.69	-48.61	≤-22.69	PASS
		2480	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-60.55	≤-21.15	PASS
			1000~26500	-1.15	-47.62	≤-21.15	PASS
3DH5	Ant1	2402	Reference	-1.80	-1.80	---	PASS
			30~1000	-1.80	-70.29	≤-21.8	PASS
			1000~26500	-1.80	-44.66	≤-21.8	PASS
		2441	Reference	-2.71	-2.71	---	PASS
			30~1000	-2.71	-69.66	≤-22.71	PASS
			1000~26500	-2.71	-47.33	≤-22.71	PASS
		2480	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-69.62	≤-20.49	PASS
			1000~26500	-0.49	-48.39	≤-20.49	PASS

Test Graphs

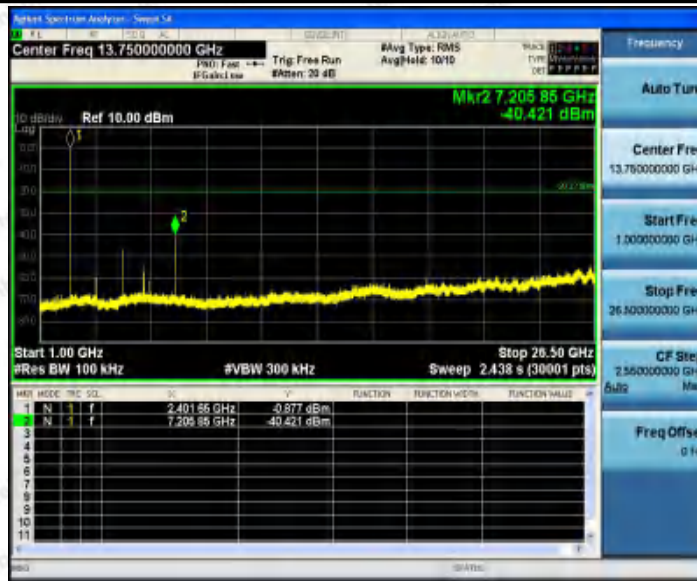
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



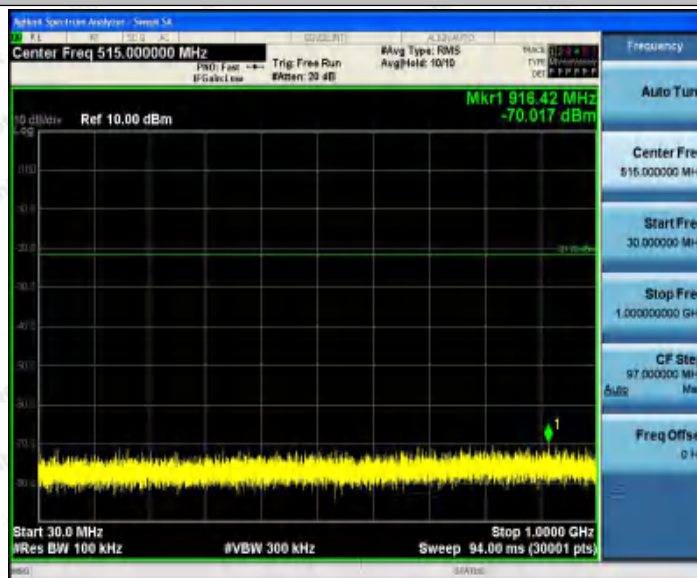
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



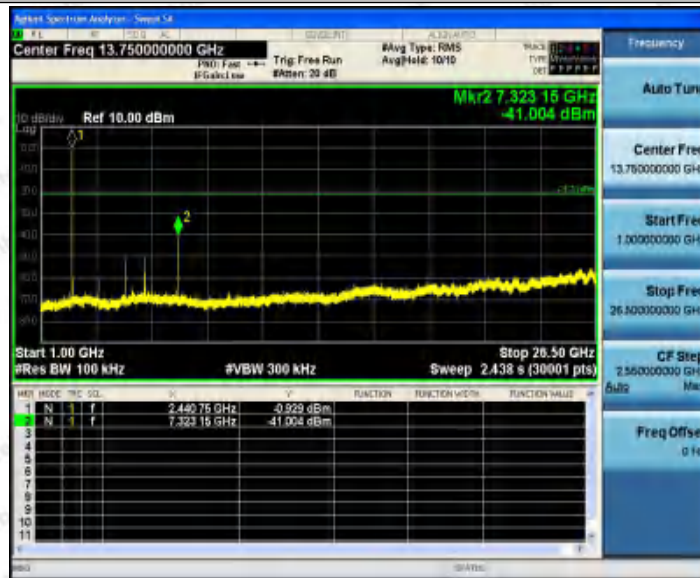
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



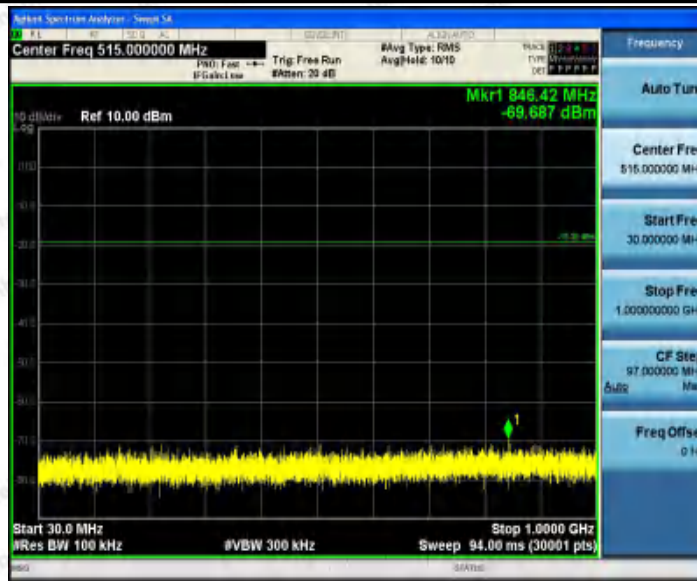
DH5_Ant1_2480_30~1000

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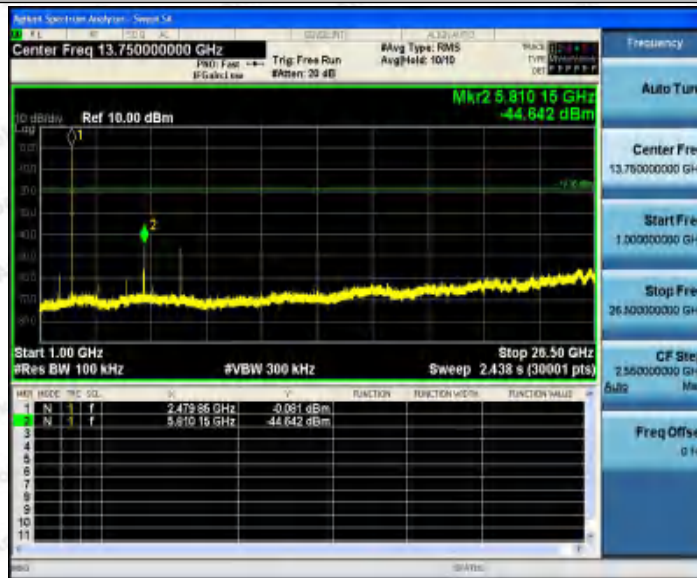
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

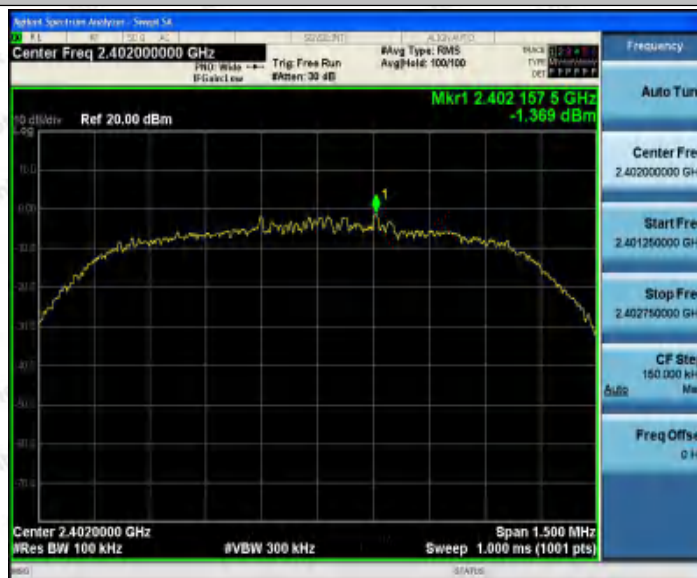
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DH5_Ant1_2480_1000~26500



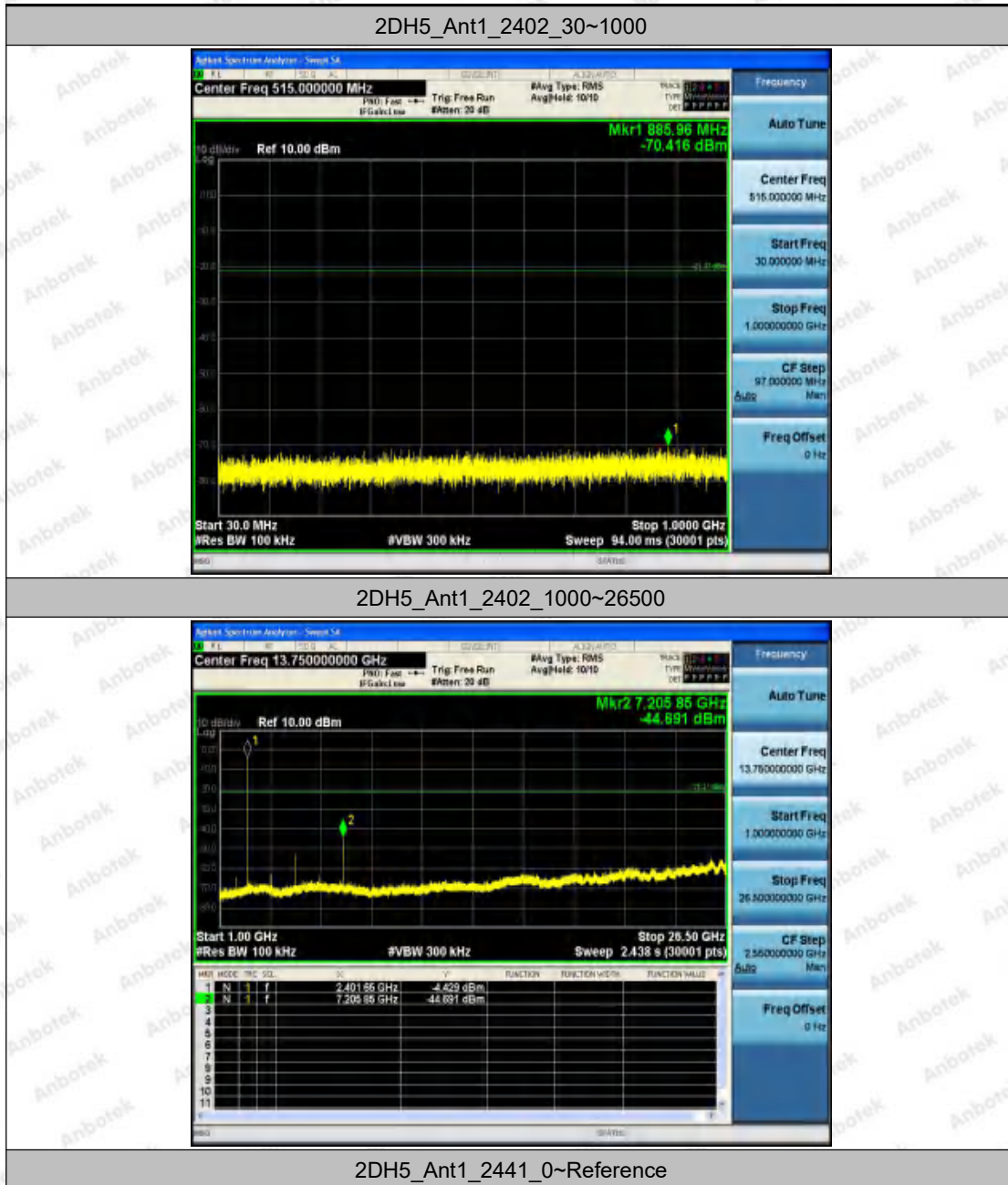
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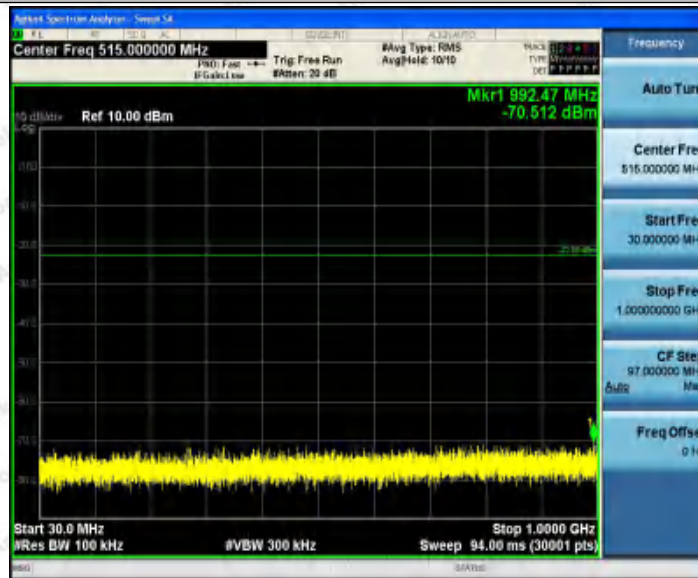
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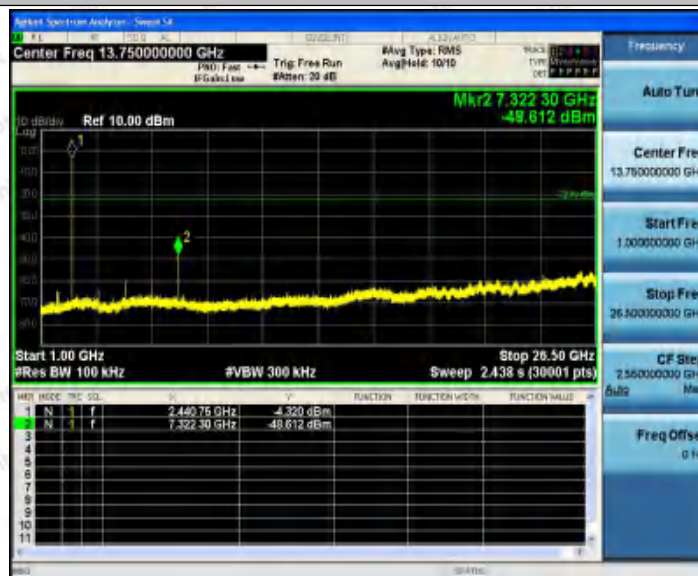




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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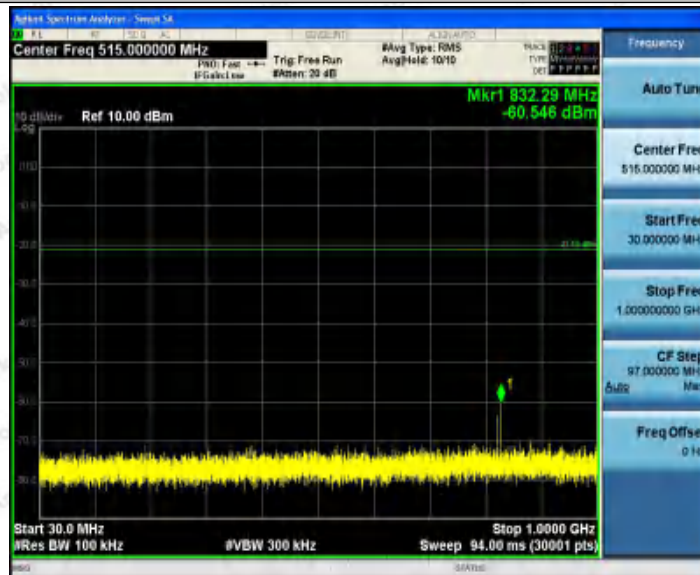
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



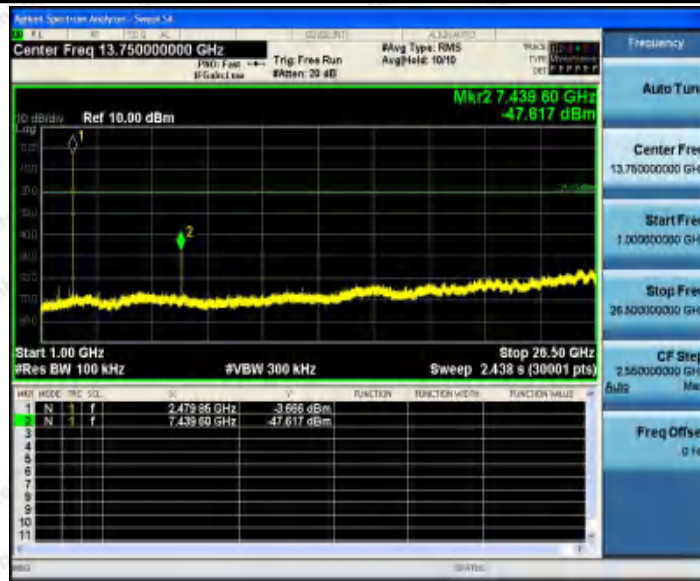
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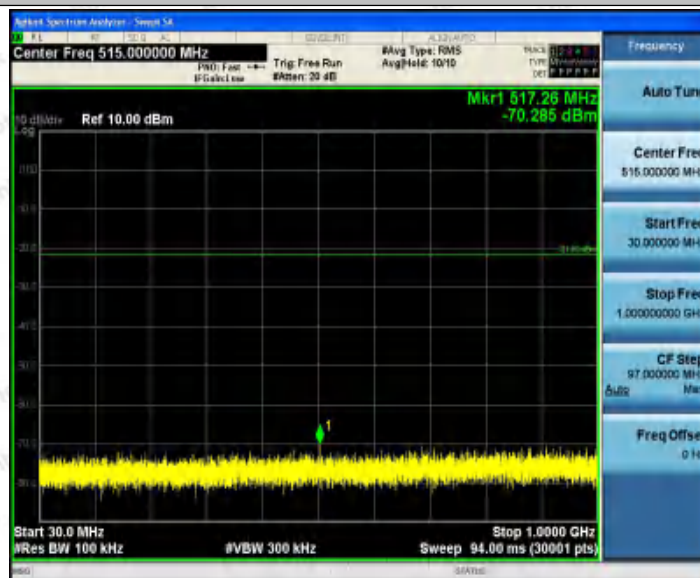
Hotline
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



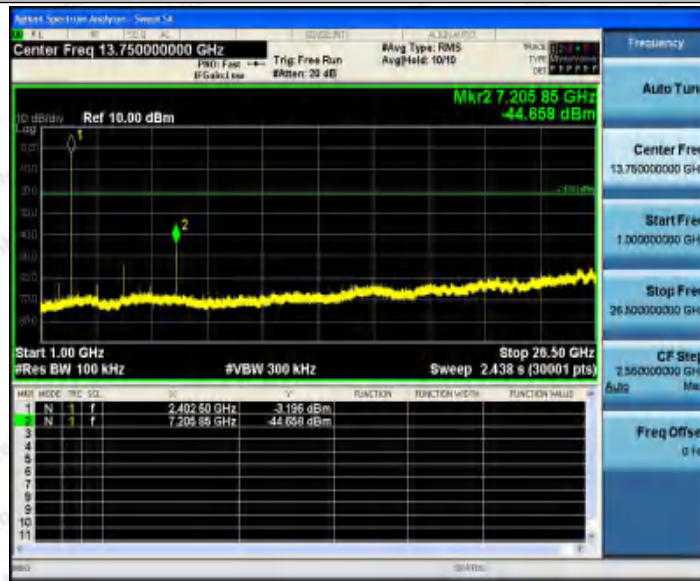
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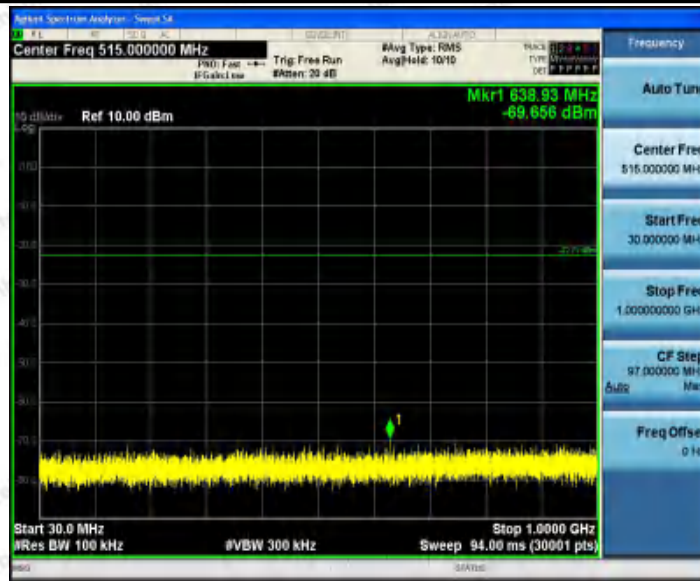
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



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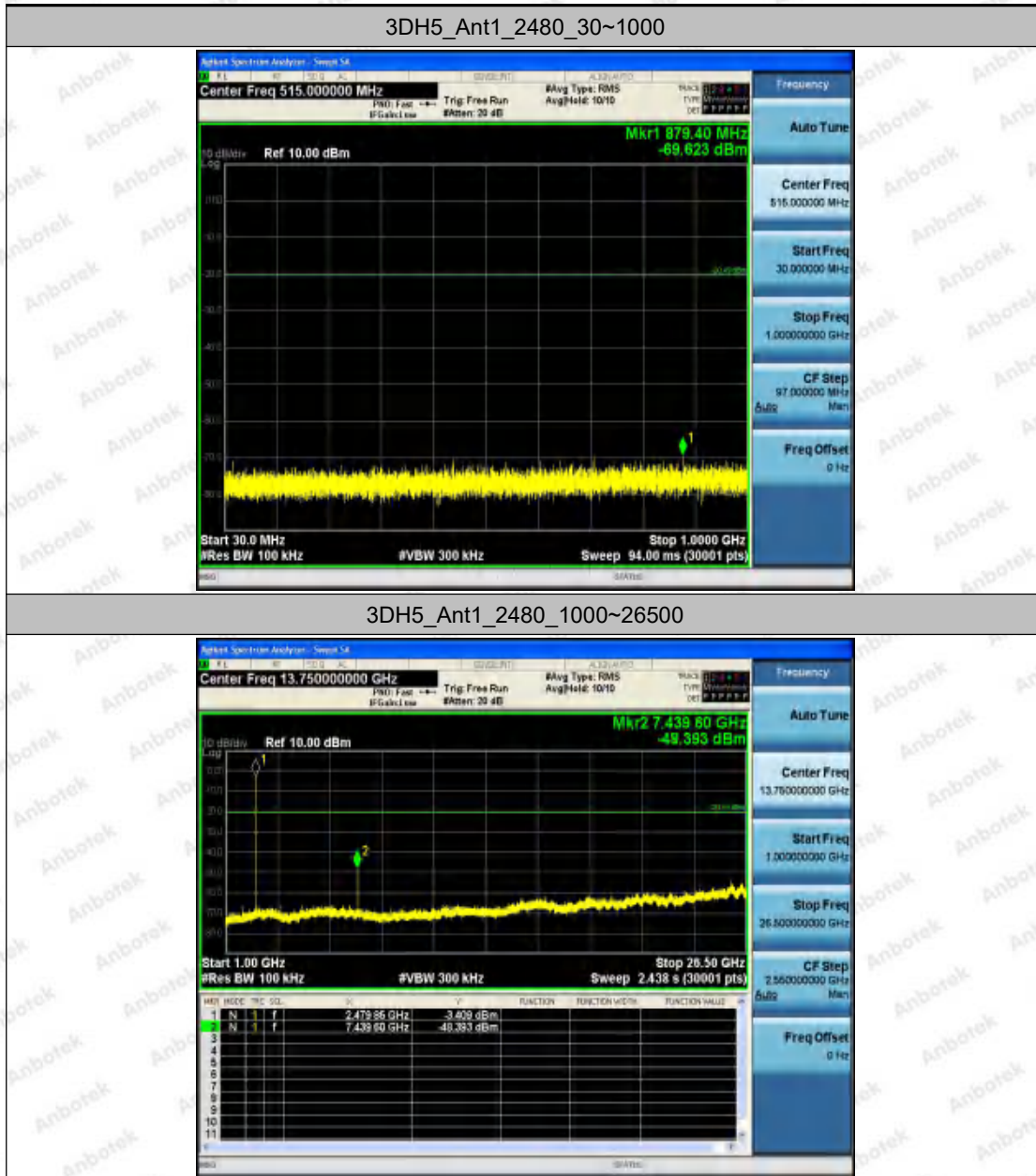


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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	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





---End---