

Appendix Test Data

Report No.:	18220WC10150301	Test Date:	2021.7.16
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.6%
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	0.930	2401.493	2402.423	---	PASS
		2441	0.978	2440.460	2441.438	---	PASS
		2480	0.942	2479.493	2480.435	---	PASS
2DH5	Ant1	2402	1.293	2401.334	2402.627	---	PASS
		2441	1.284	2440.340	2441.624	---	PASS
		2480	1.290	2479.325	2480.615	---	PASS
3DH5	Ant1	2402	1.290	2401.310	2402.600	---	PASS
		2441	1.290	2440.310	2441.600	---	PASS
		2480	1.293	2479.301	2480.594	---	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



3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

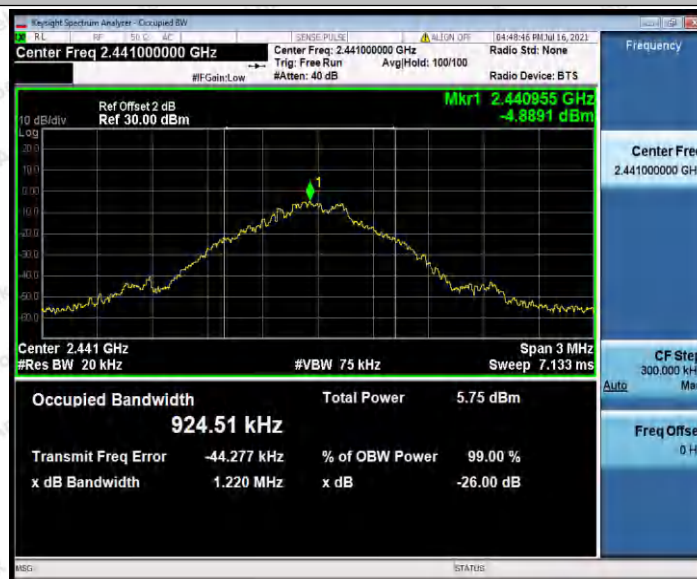
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.91169	2401.504	2402.415	---	PASS
		2441	0.92451	2440.493	2441.418	---	PASS
		2480	0.91891	2479.490	2480.409	---	PASS
2DH5	Ant1	2402	1.1885	2401.382	2402.571	---	PASS
		2441	1.1828	2440.380	2441.563	---	PASS
		2480	1.1783	2479.377	2480.556	---	PASS
3DH5	Ant1	2402	1.2320	2401.351	2402.583	---	PASS
		2441	1.1809	2440.375	2441.556	---	PASS
		2480	1.2127	2479.349	2480.562	---	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

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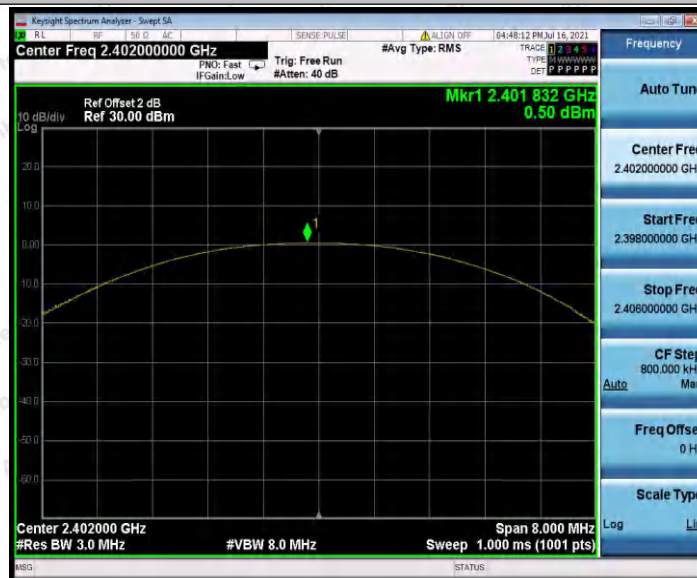
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.5	<=20.97	PASS
		2441	-0.7	<=20.97	PASS
		2480	-2.96	<=20.97	PASS
2DH5	Ant1	2402	0.41	<=20.97	PASS
		2441	-0.69	<=20.97	PASS
		2480	-3.65	<=20.97	PASS
3DH5	Ant1	2402	0.16	<=20.97	PASS
		2441	-0.85	<=20.97	PASS
		2480	-3.69	<=20.97	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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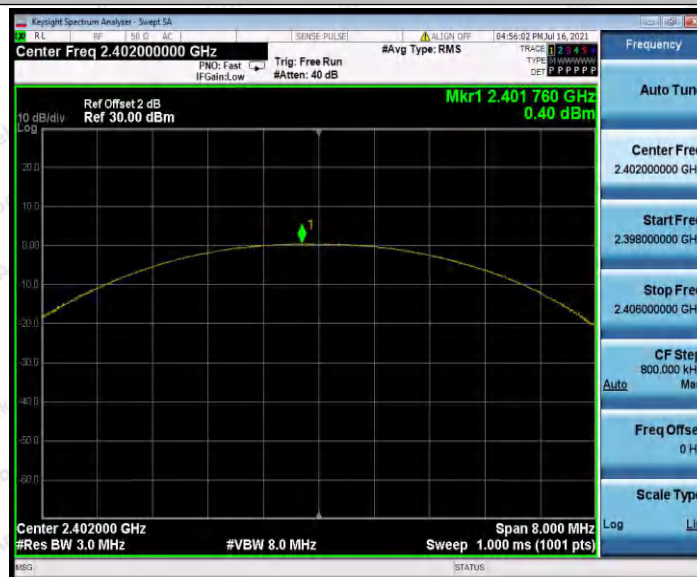
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2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402

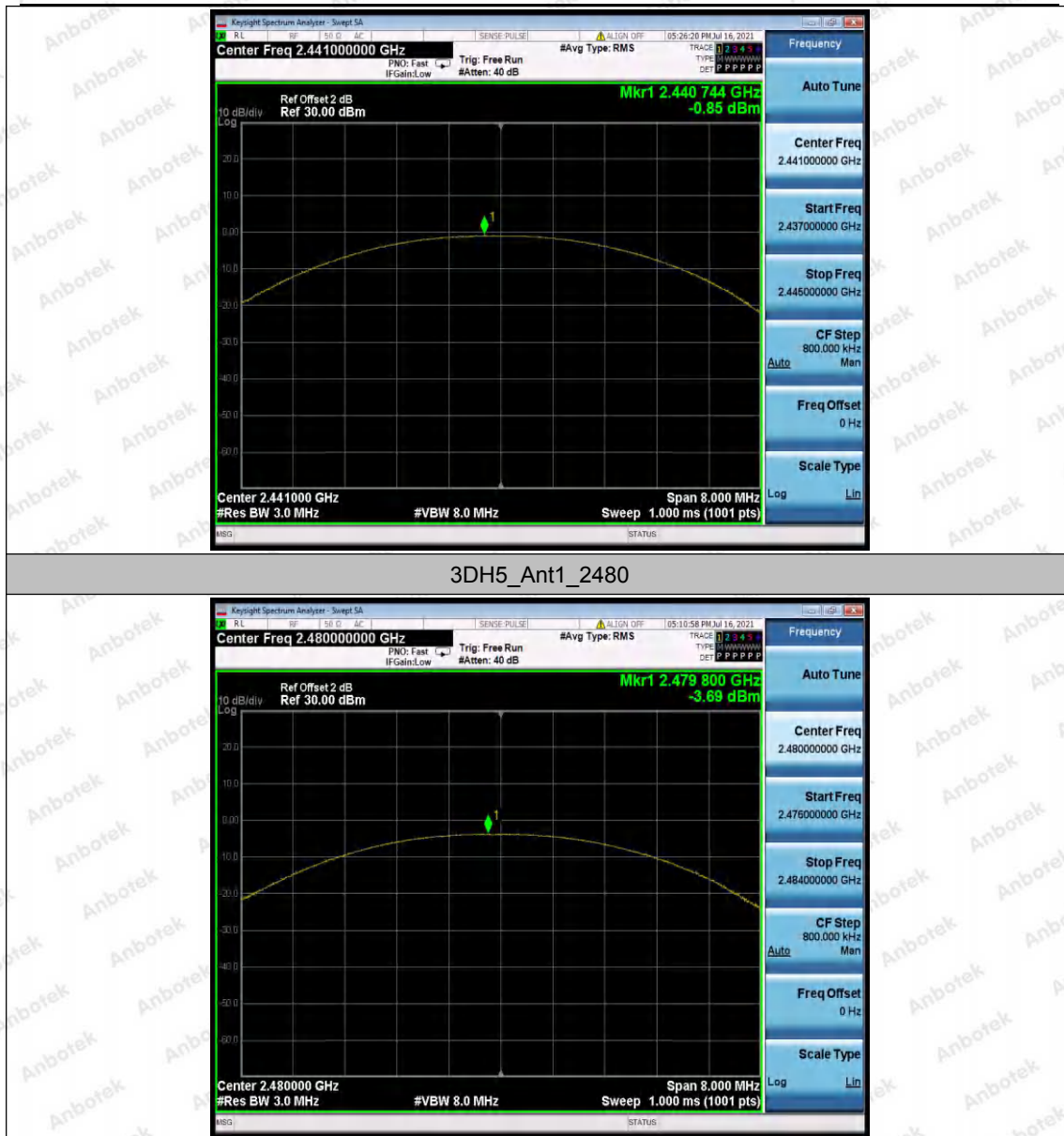


3DH5_Ant1_2441

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.988	≥ 0.978	PASS
2DH5	Ant1	Hop	1	≥ 0.862	PASS
3DH5	Ant1	Hop	0.99	≥ 0.862	PASS

Test Graphs





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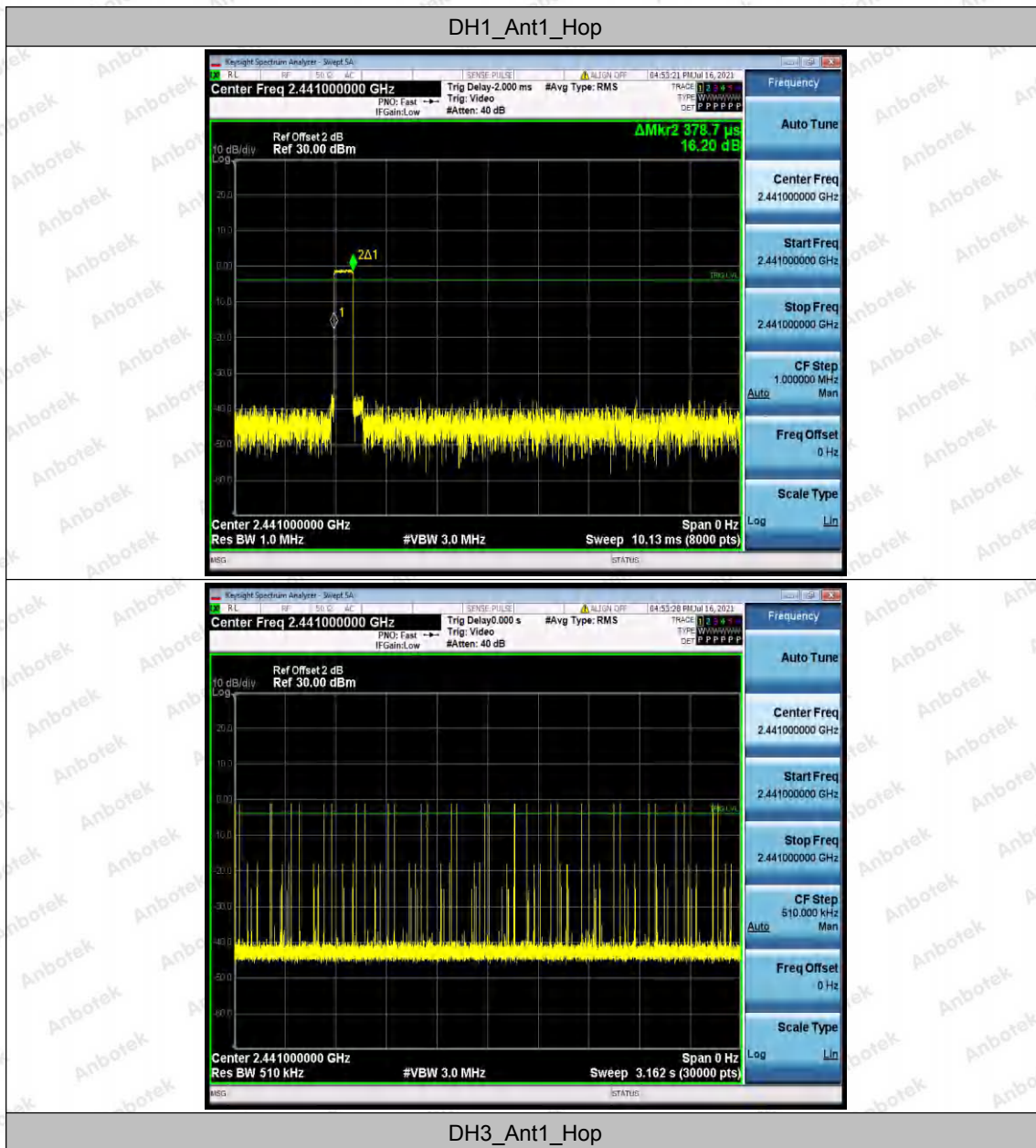
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.121	<=0.4	PASS
DH3	Ant1	Hop	1.64	170	0.279	<=0.4	PASS
DH5	Ant1	Hop	2.89	110	0.318	<=0.4	PASS
2DH1	Ant1	Hop	0.39	330	0.127	<=0.4	PASS
2DH3	Ant1	Hop	1.64	160	0.262	<=0.4	PASS
2DH5	Ant1	Hop	2.89	90	0.26	<=0.4	PASS
3DH1	Ant1	Hop	0.39	330	0.127	<=0.4	PASS
3DH3	Ant1	Hop	1.64	170	0.278	<=0.4	PASS
3DH5	Ant1	Hop	2.89	110	0.318	<=0.4	PASS

Test Graphs



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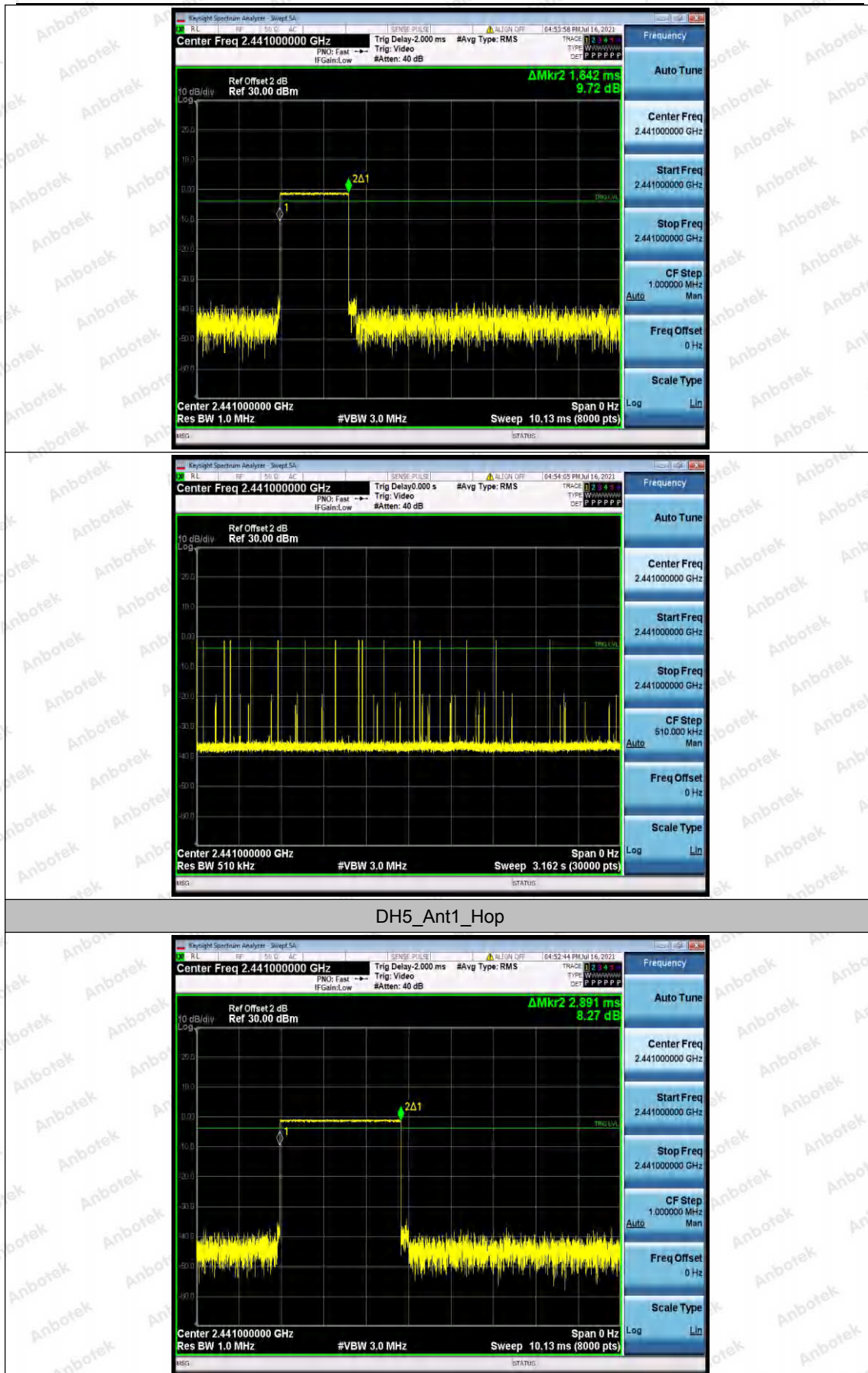
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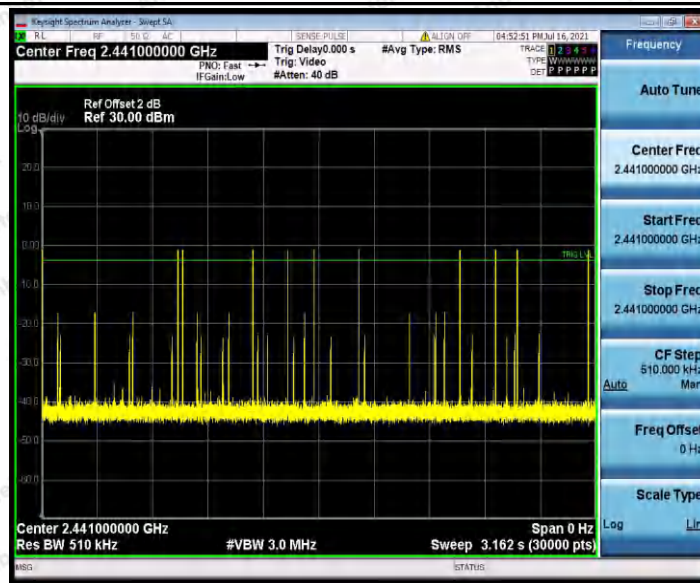


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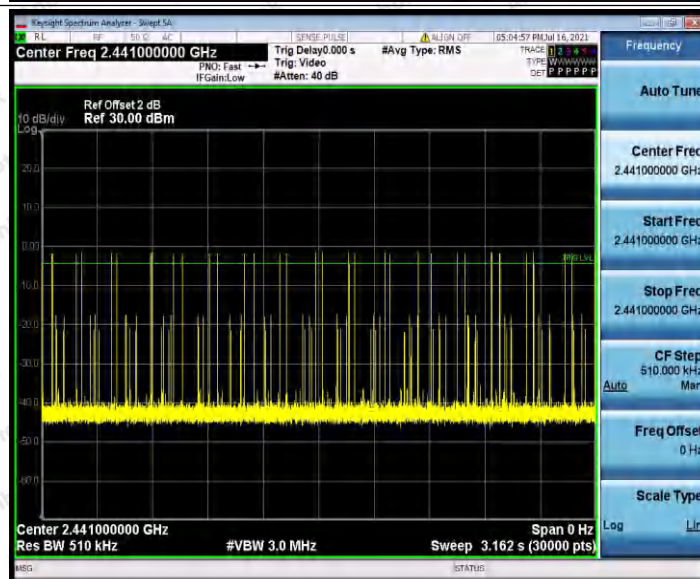
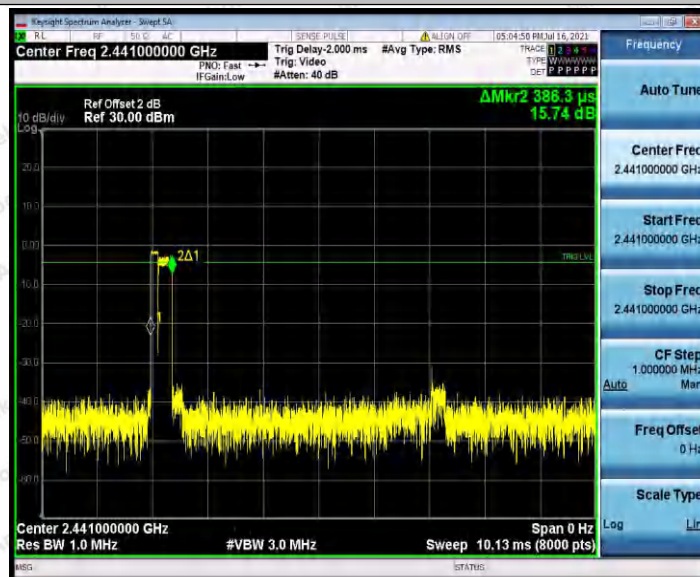
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2DH1_Ant1_Hop



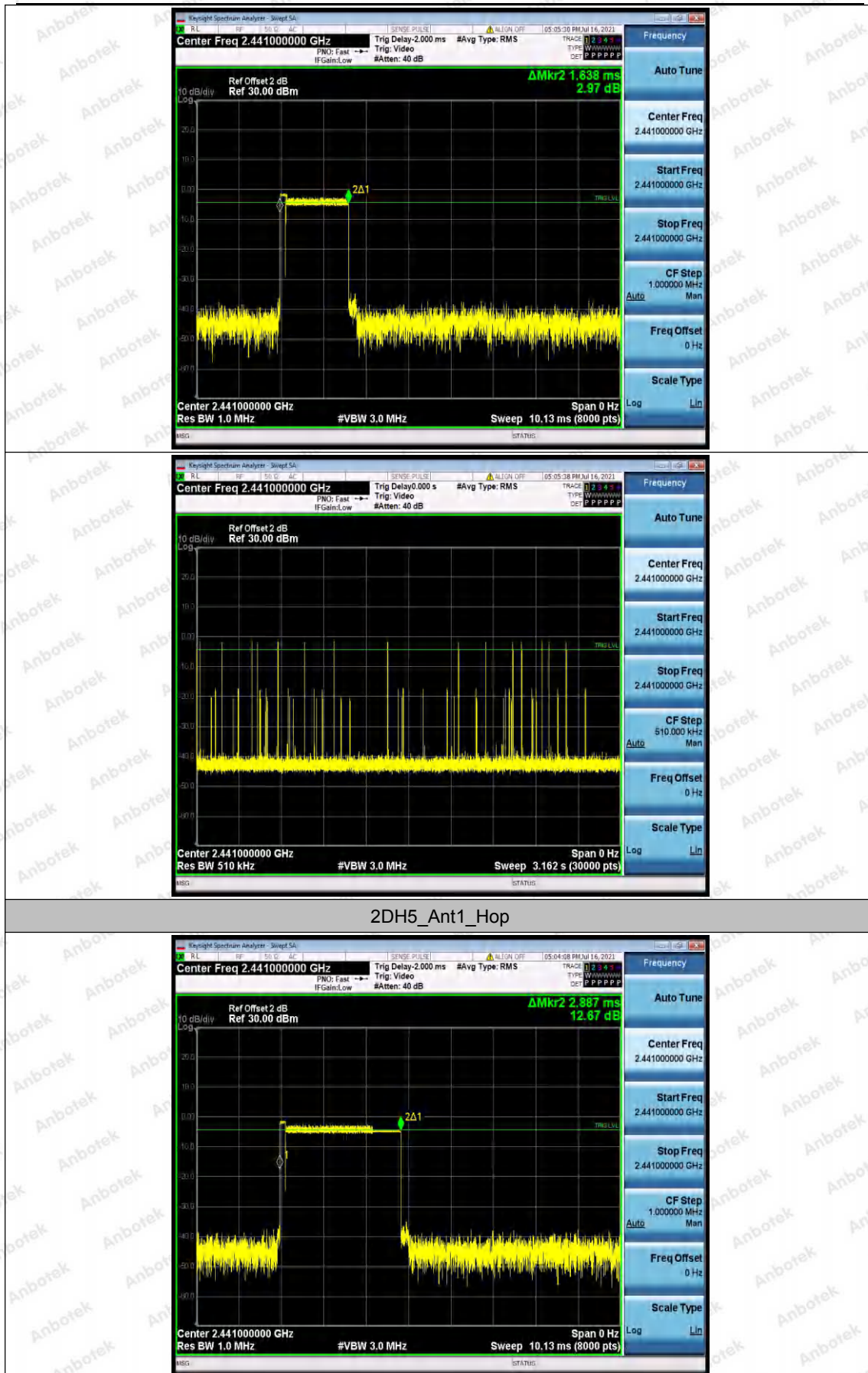
2DH3_Ant1_Hop

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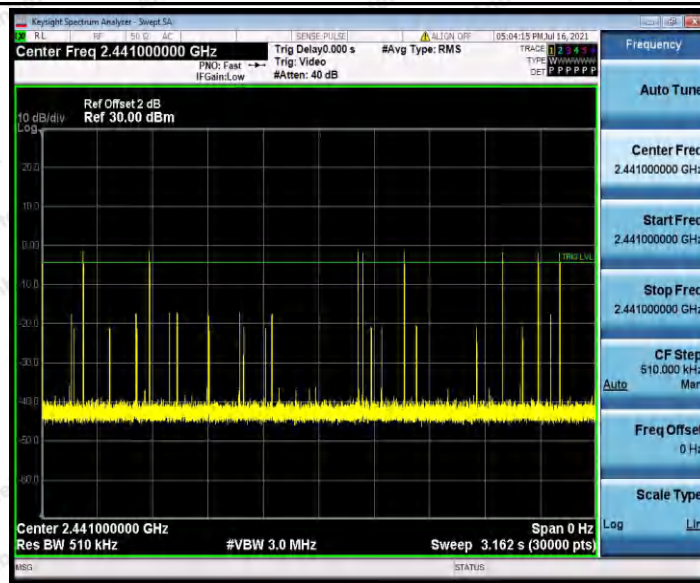
2DH5_Ant1_Hop

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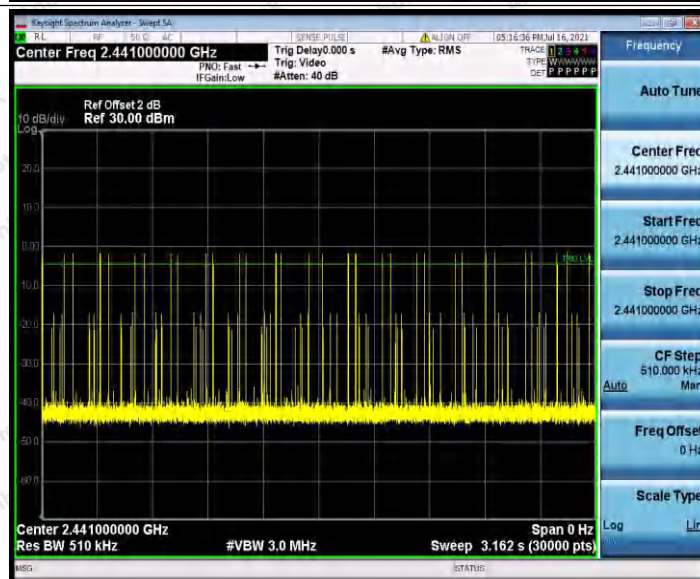
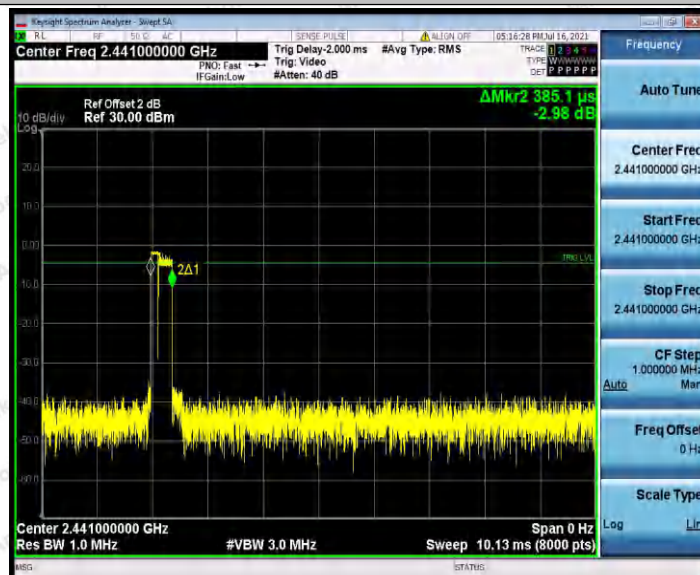
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3DH1_Ant1_Hop



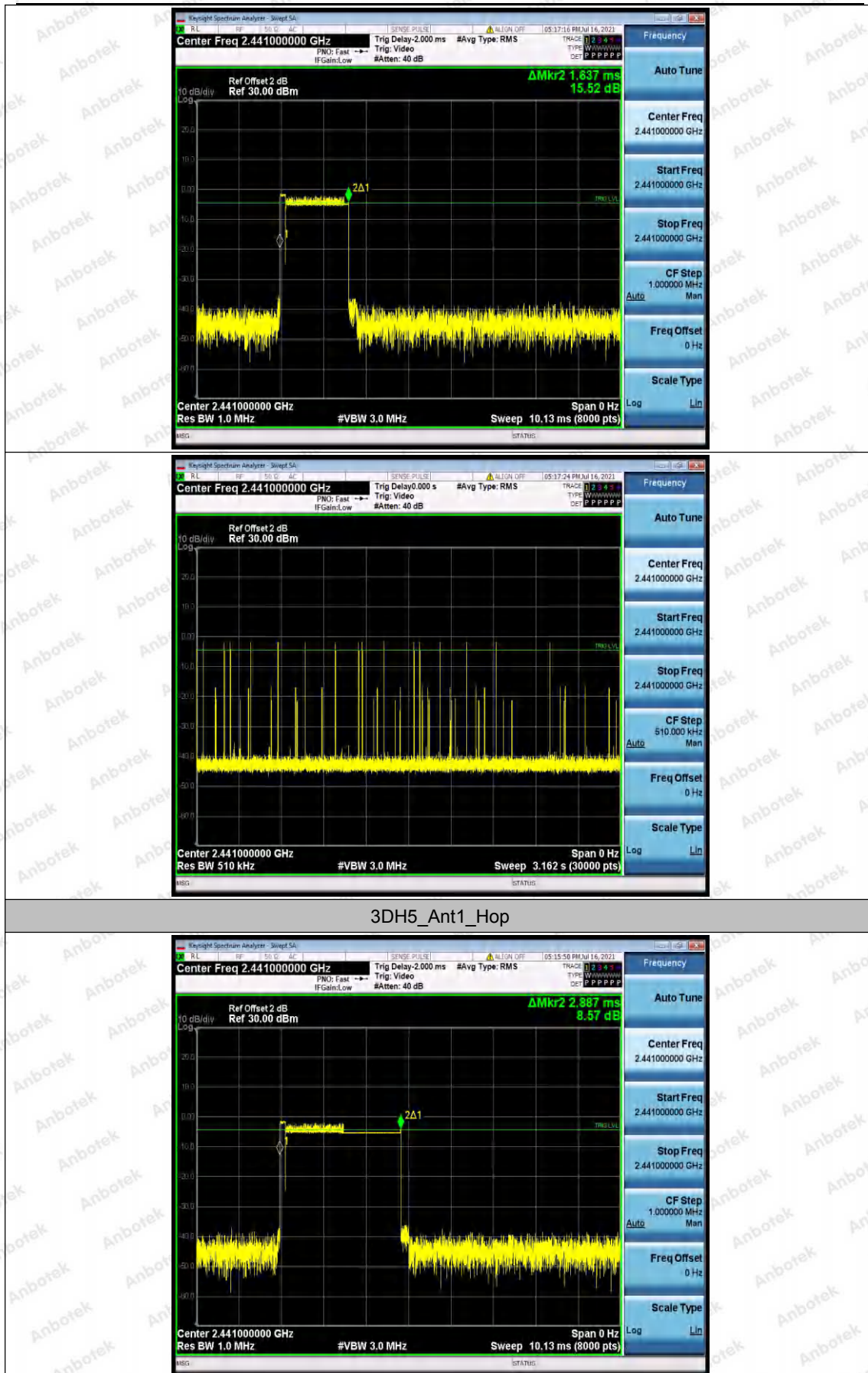
3DH3_Ant1_Hop

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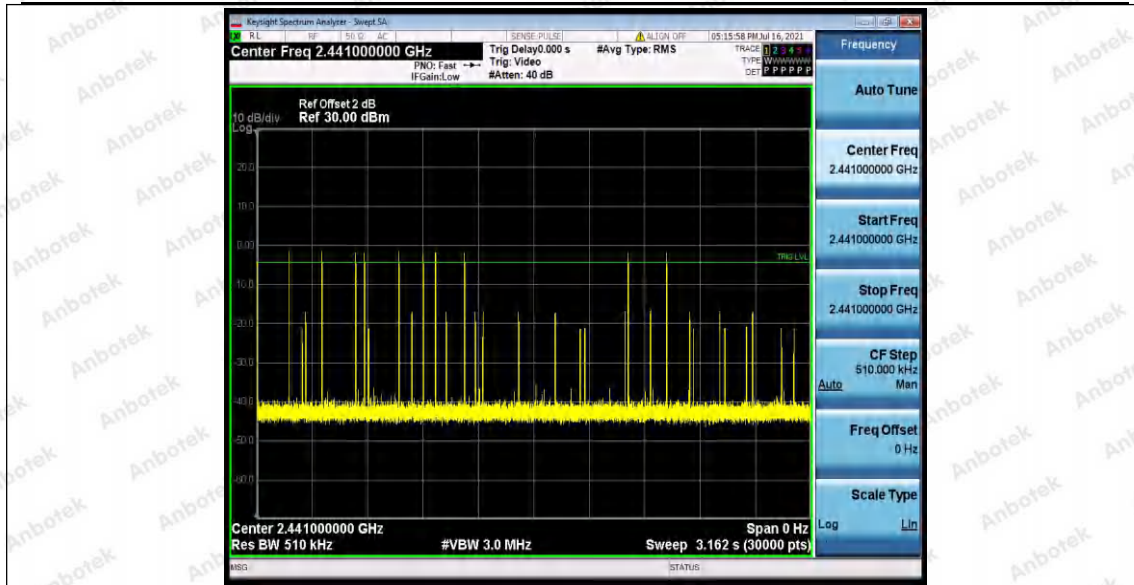
3DH5_Ant1_Hop

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Appendix F: Number of hopping channels

Test Result

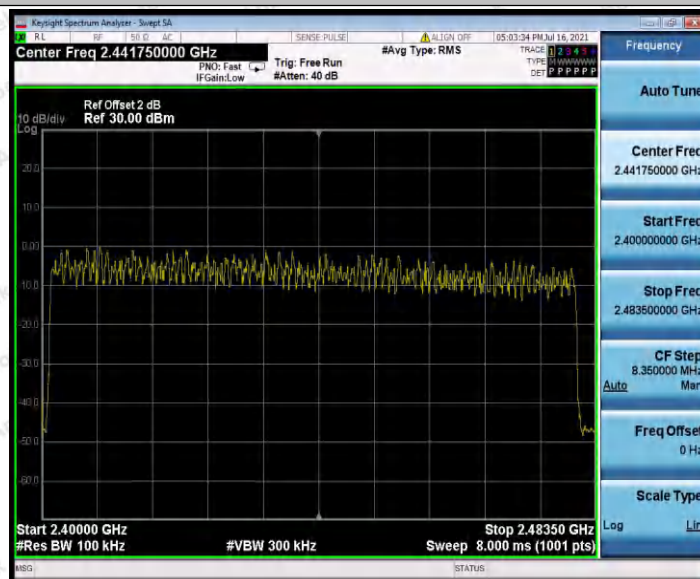
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

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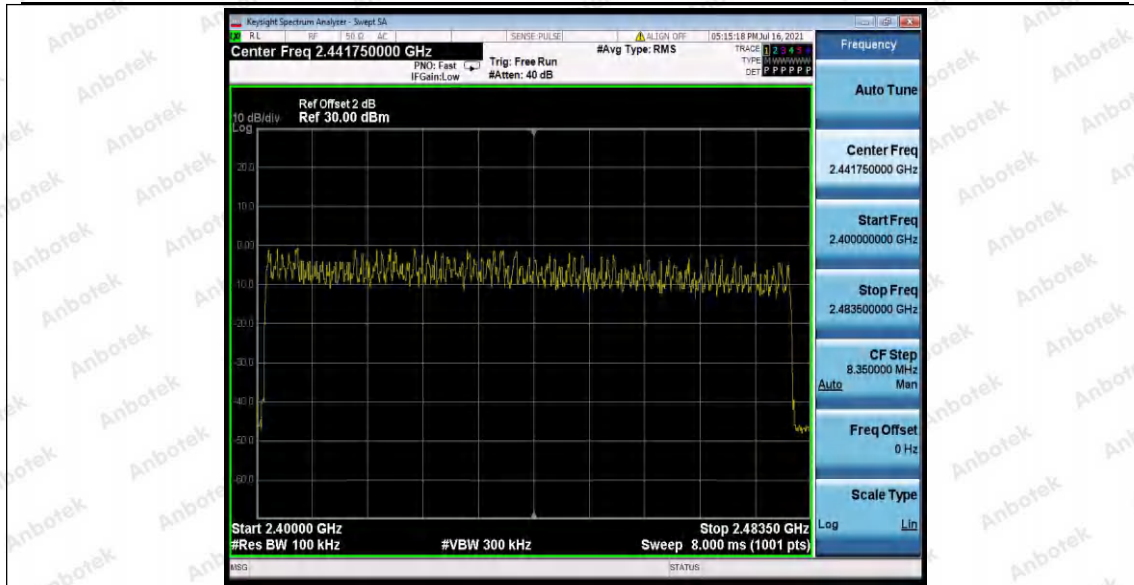
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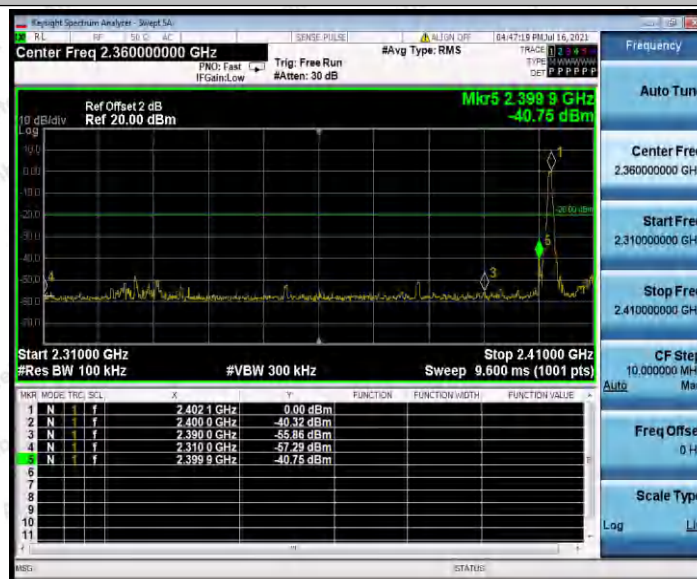
Appendix G: Band edge measurements

Test Result

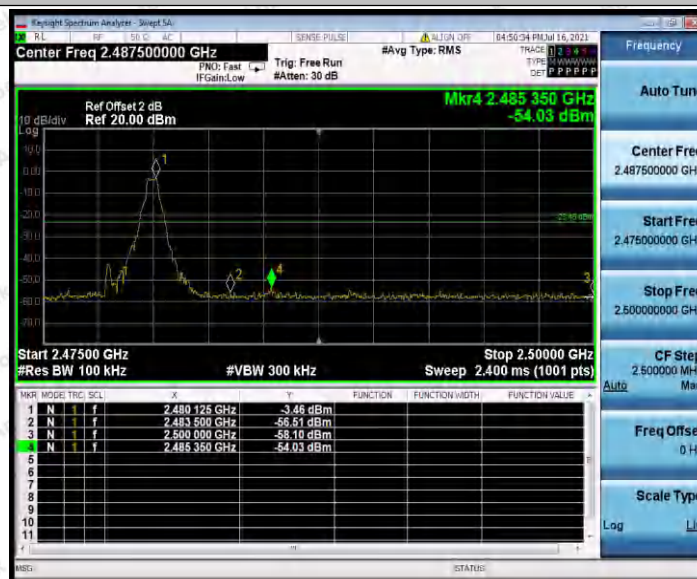
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.00	-40.75	<=-20	PASS
		High	2480	-3.46	-54.03	<=-23.46	PASS
		Low	Hop	-0.10	-50.17	<=-20.1	PASS
		High	Hop	-3.46	-49.07	<=-23.46	PASS
2DH5	Ant1	Low	2402	-0.39	-41.22	<=-20.39	PASS
		High	2480	-3.68	-55.56	<=-23.68	PASS
		Low	Hop	-1.28	-51.22	<=-21.28	PASS
		High	Hop	-4.53	-54.56	<=-24.53	PASS
3DH5	Ant1	Low	2402	-0.23	-40.68	<=-20.23	PASS
		High	2480	-4.26	-55.16	<=-24.26	PASS
		Low	Hop	-2.00	-53.22	<=-22	PASS
		High	Hop	-4.27	-55.87	<=-24.27	PASS

Test Graphs

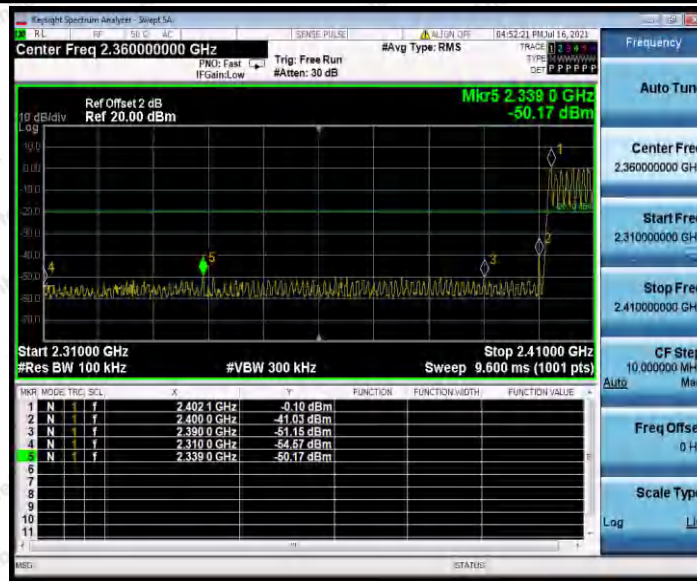
DH5_Ant1_Low_2402



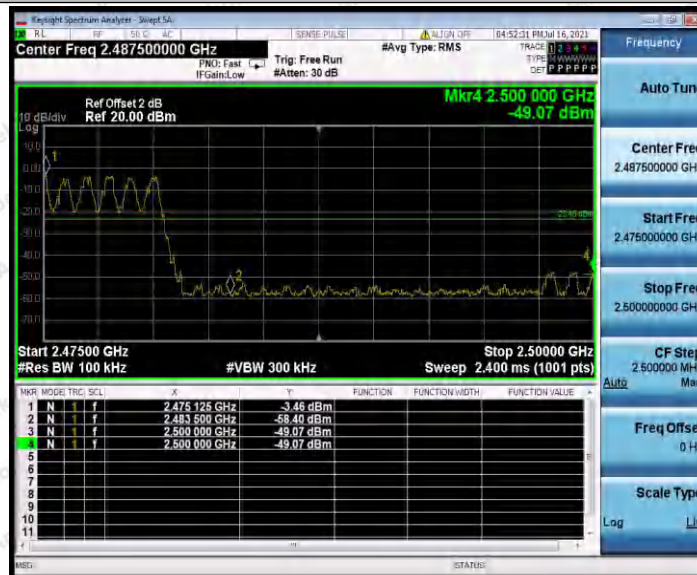
DH5_Ant1_High_2480



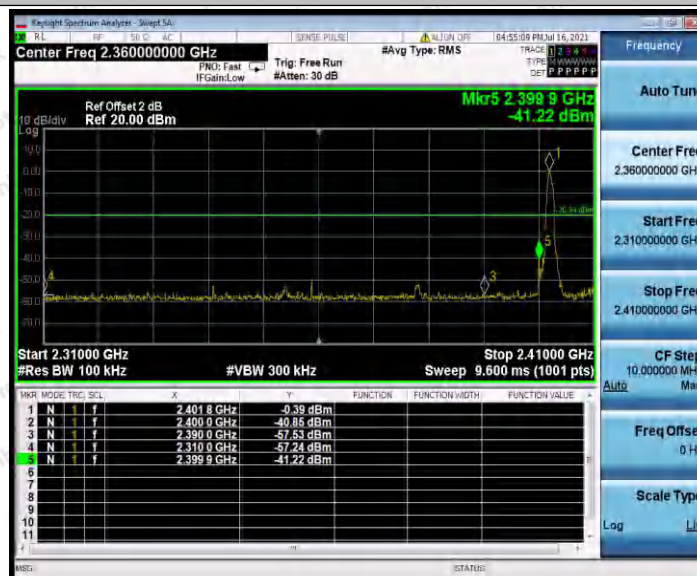
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



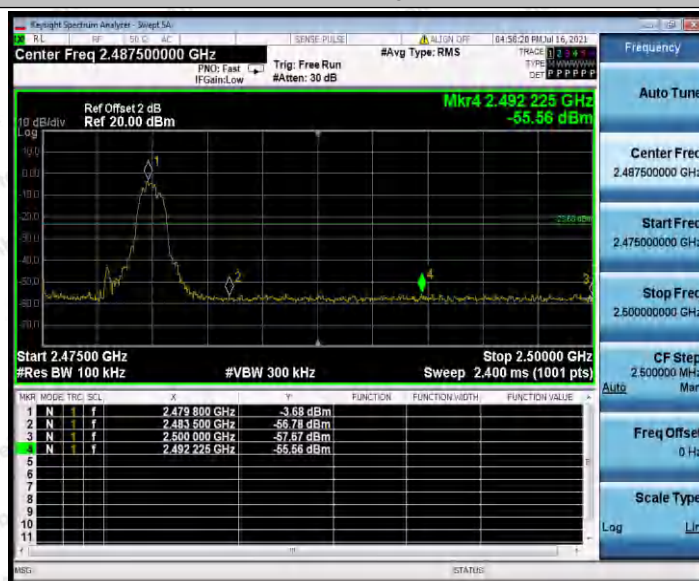
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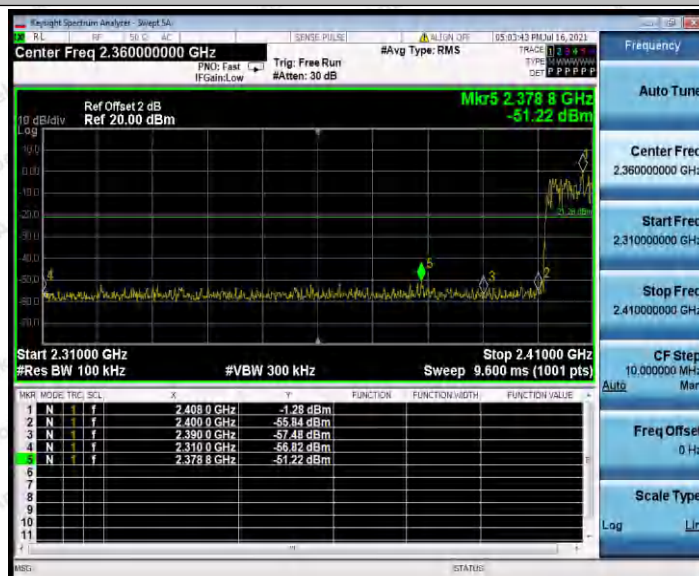
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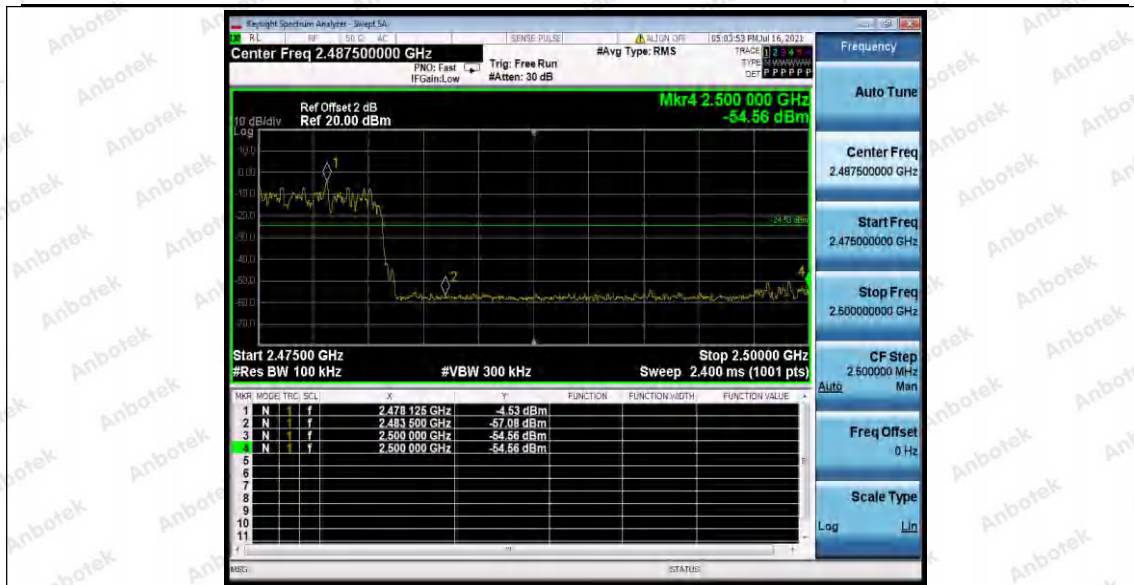
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



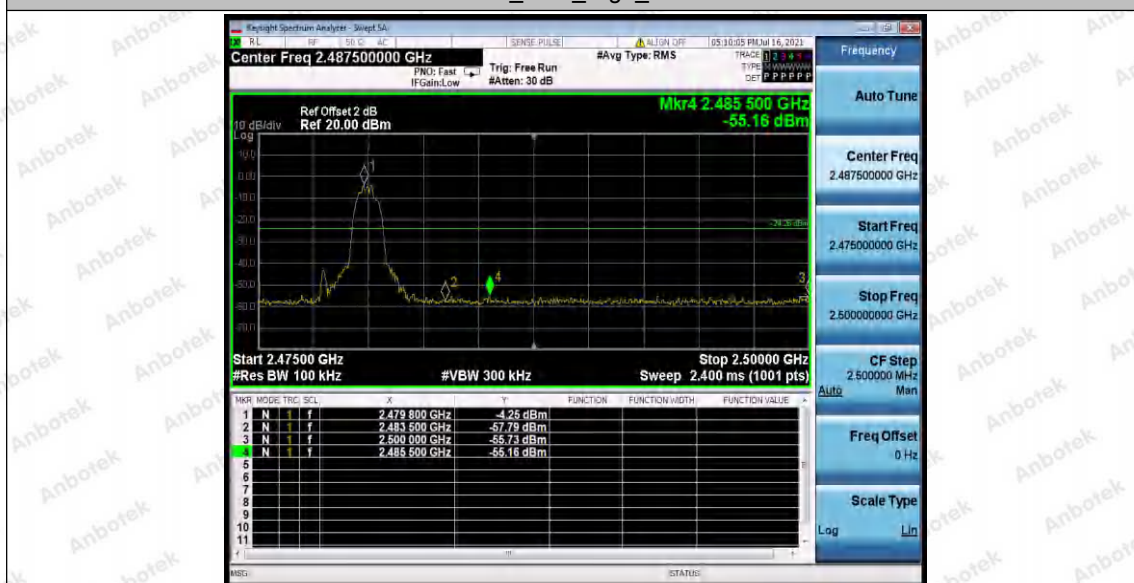
2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



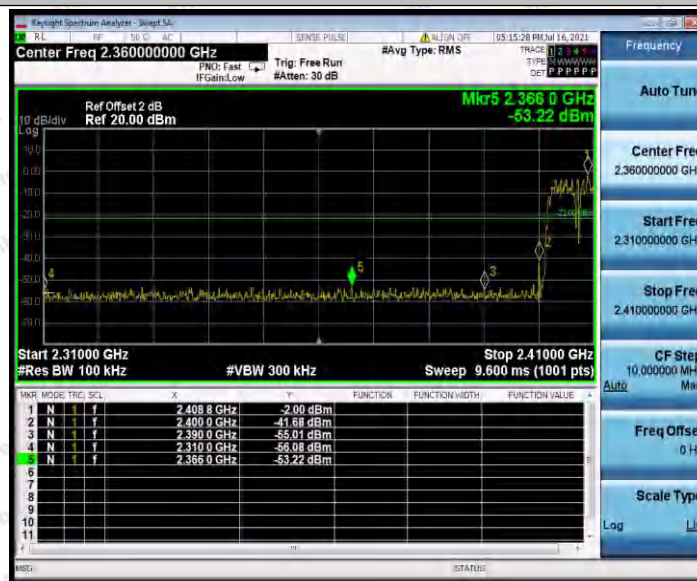
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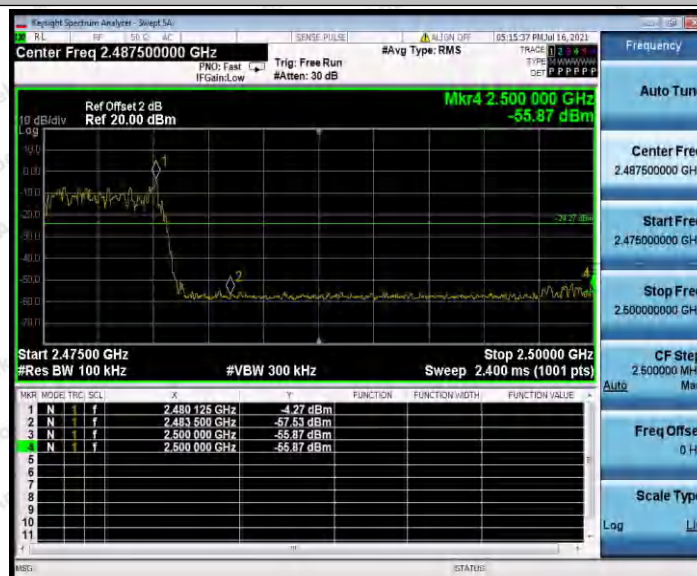
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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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	-0.11	-0.11	---	PASS
			30~1000	-0.11	-59.67	<=-20.11	PASS
			1000~26500	-0.11	-48.78	<=-20.11	PASS
		2441	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-61.22	<=-21.24	PASS
			1000~26500	-1.24	-49.69	<=-21.24	PASS
		2480	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-53.44	<=-23.54	PASS
			1000~26500	-3.54	-52.02	<=-23.54	PASS
2DH5	Ant1	2402	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-60.36	<=-20.21	PASS
			1000~26500	-0.21	-51.35	<=-20.21	PASS
		2441	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-61.3	<=-21.22	PASS
			1000~26500	-1.22	-51.14	<=-21.22	PASS
		2480	Reference	-4.20	-4.20	---	PASS
			30~1000	-4.20	-58.41	<=-24.2	PASS
			1000~26500	-4.20	-52.21	<=-24.2	PASS
3DH5	Ant1	2402	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-59.76	<=-20.23	PASS
			1000~26500	-0.23	-44.74	<=-20.23	PASS
		2441	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-56.59	<=-21.67	PASS
			1000~26500	-1.67	-43.7	<=-21.67	PASS
		2480	Reference	-4.23	-4.23	---	PASS
			30~1000	-4.23	-59.5	<=-24.23	PASS
			1000~26500	-4.23	-52.92	<=-24.23	PASS

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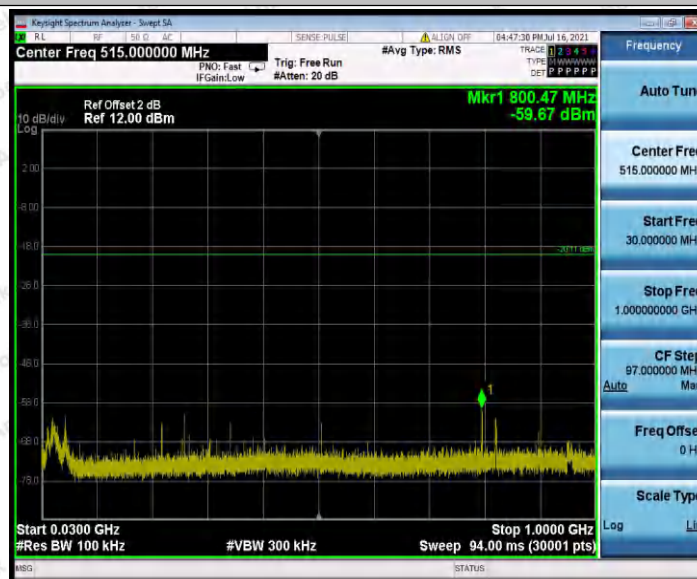
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Test Graphs

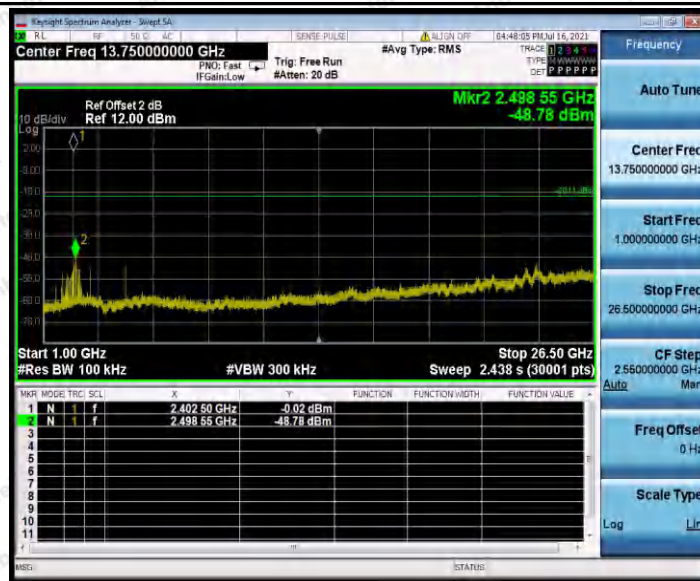
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DH5_Ant1_2402_30~1000



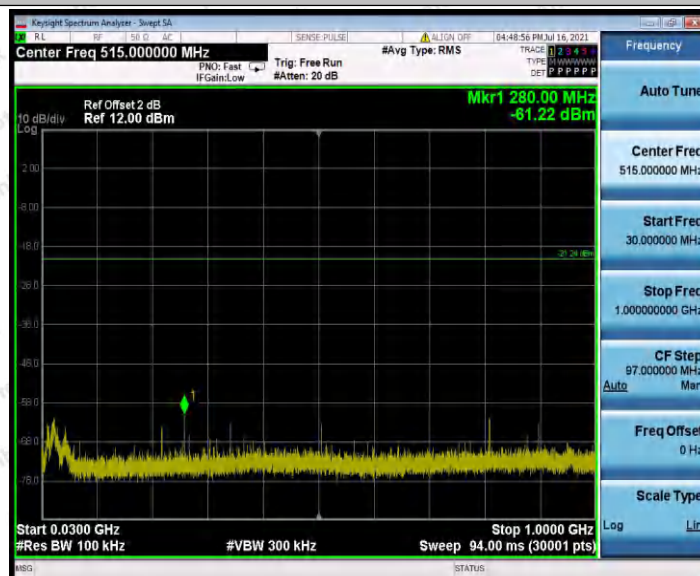
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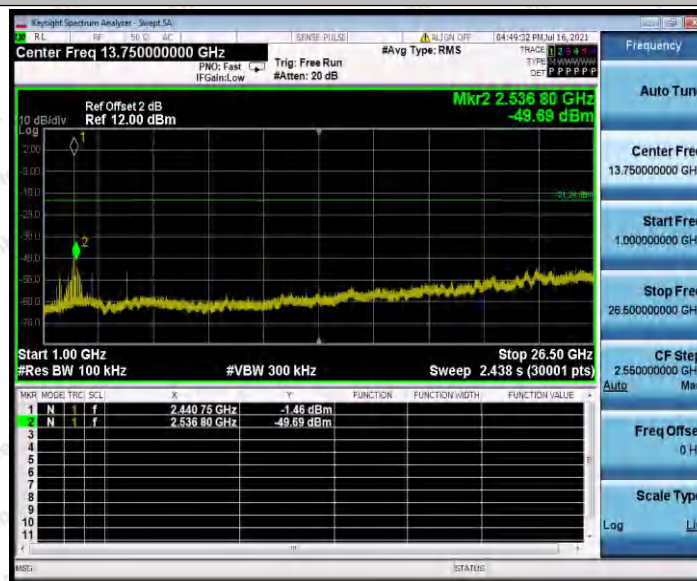
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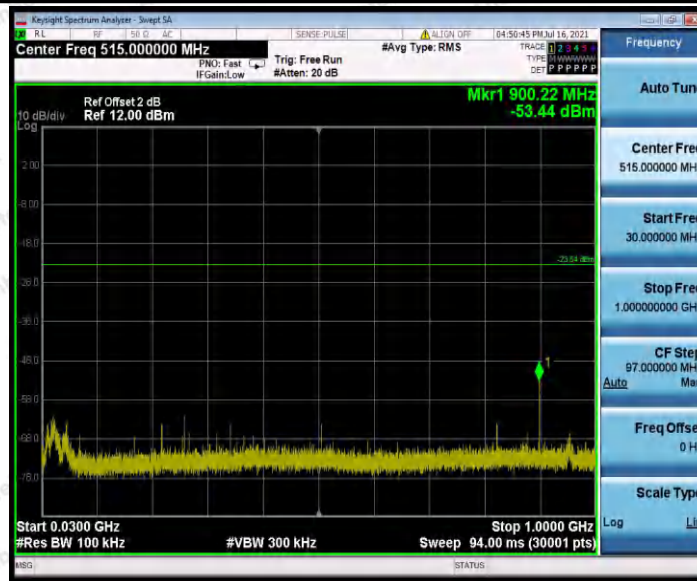
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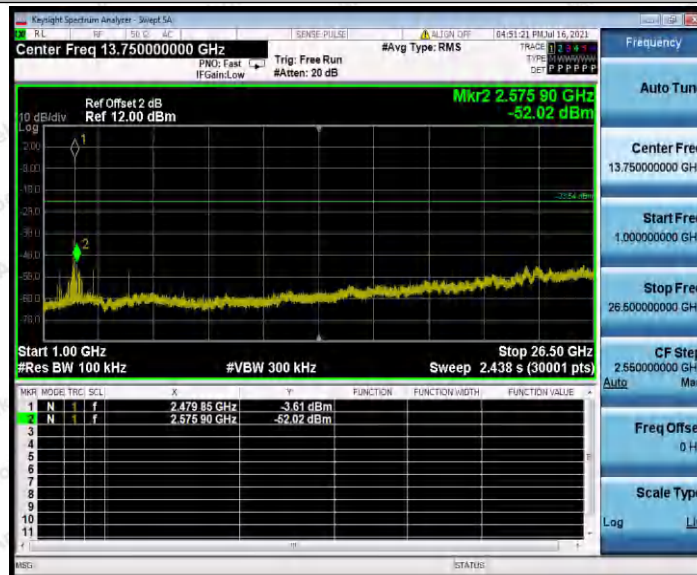
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2DH5_Ant1_2402_0~Reference

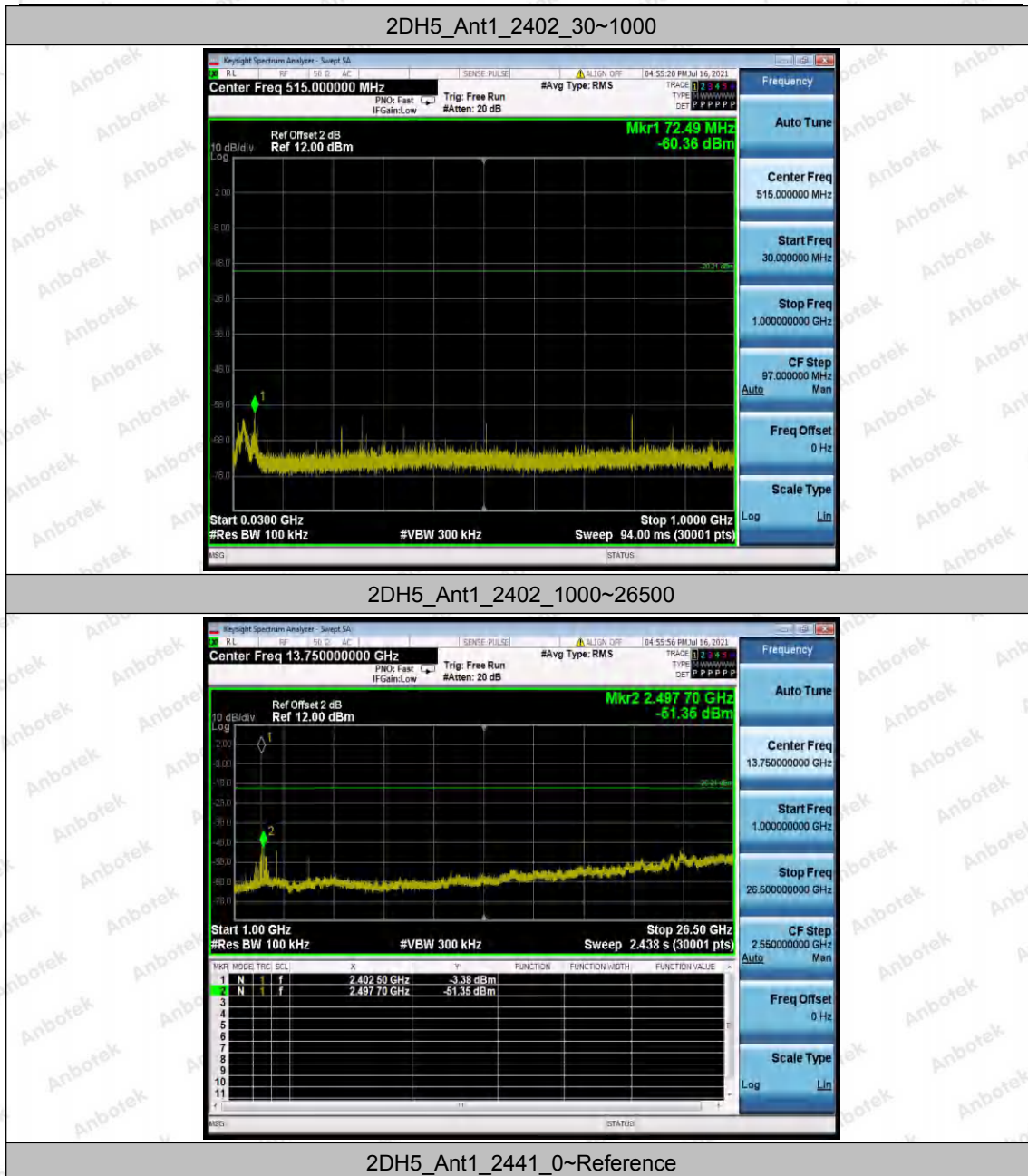


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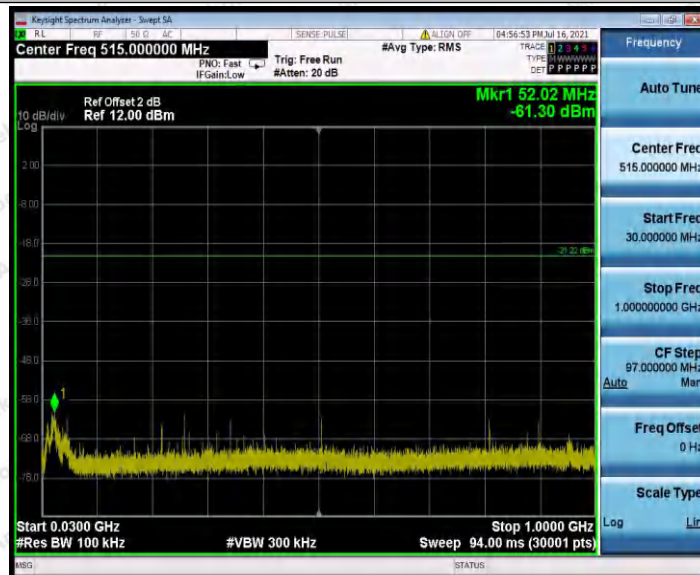
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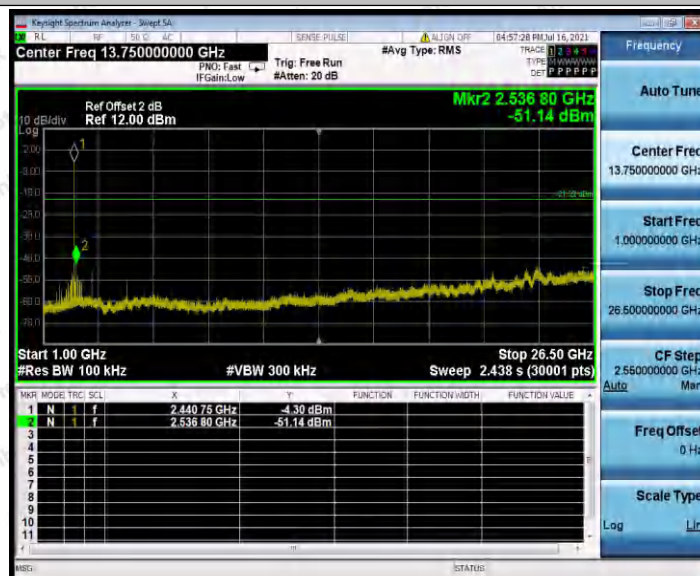




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

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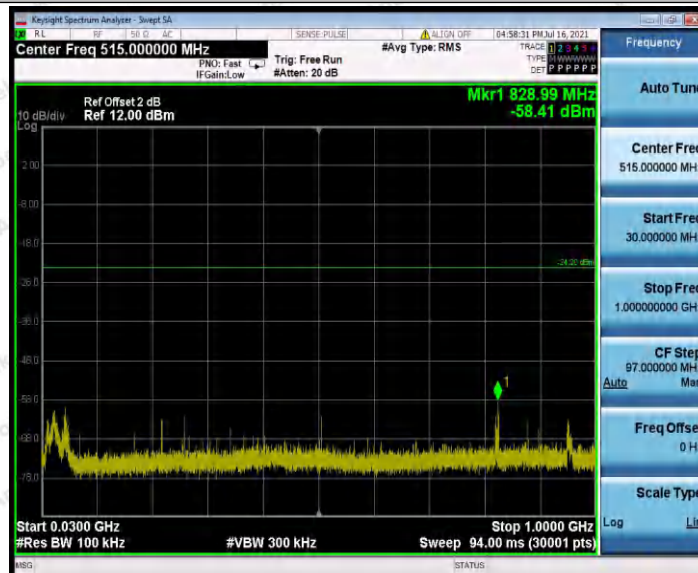
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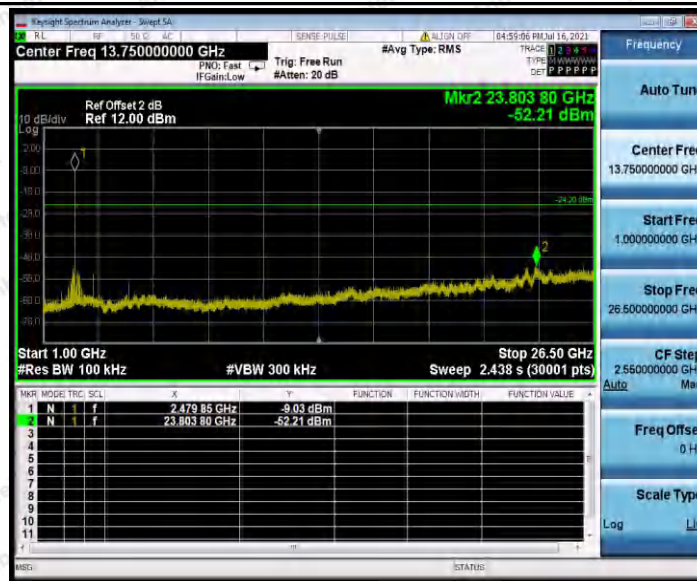
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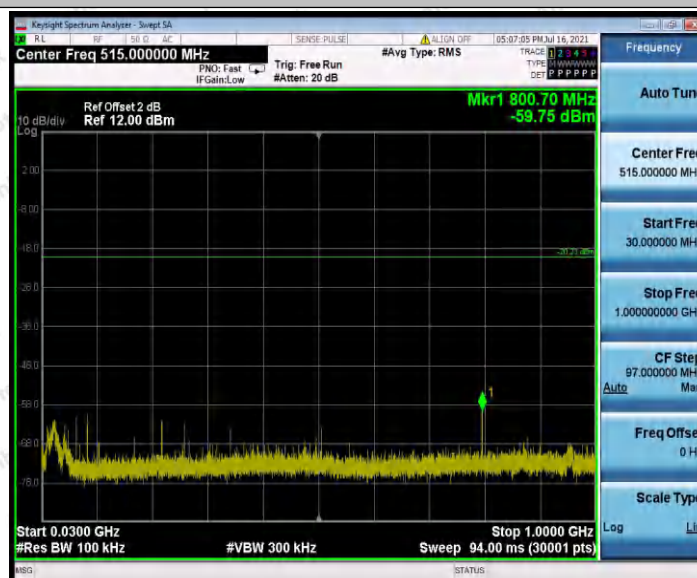
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



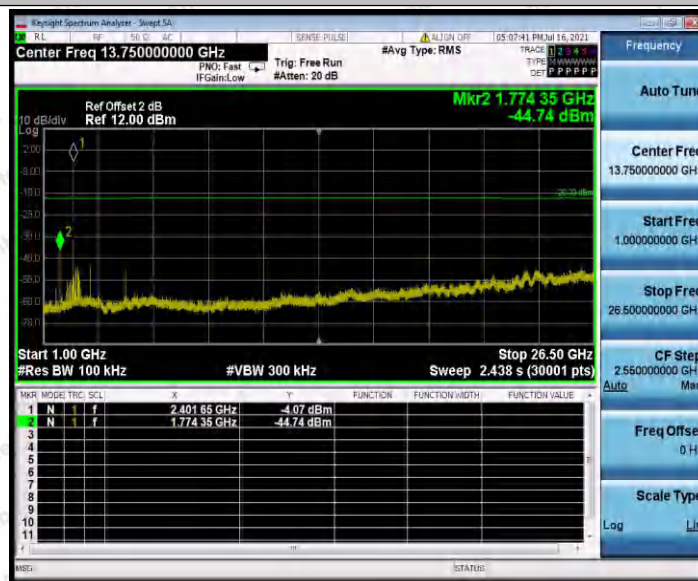
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

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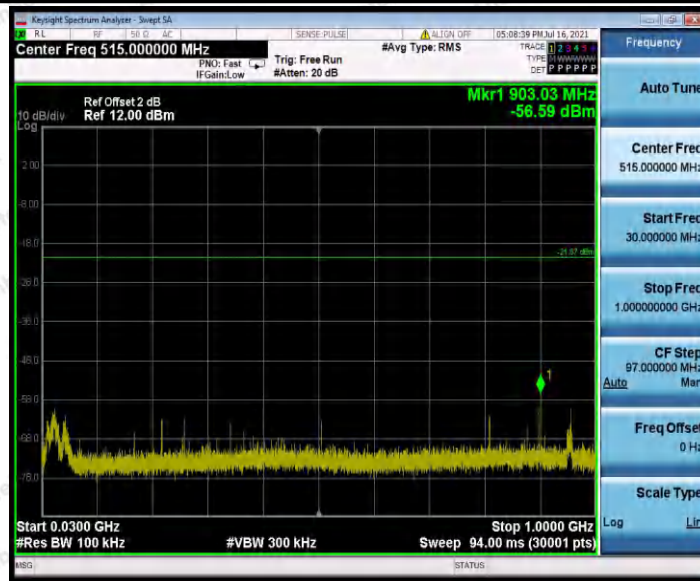
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



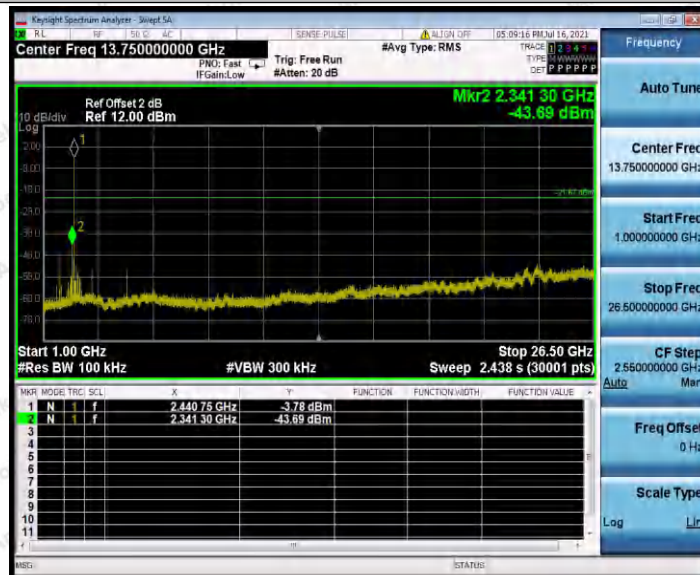
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



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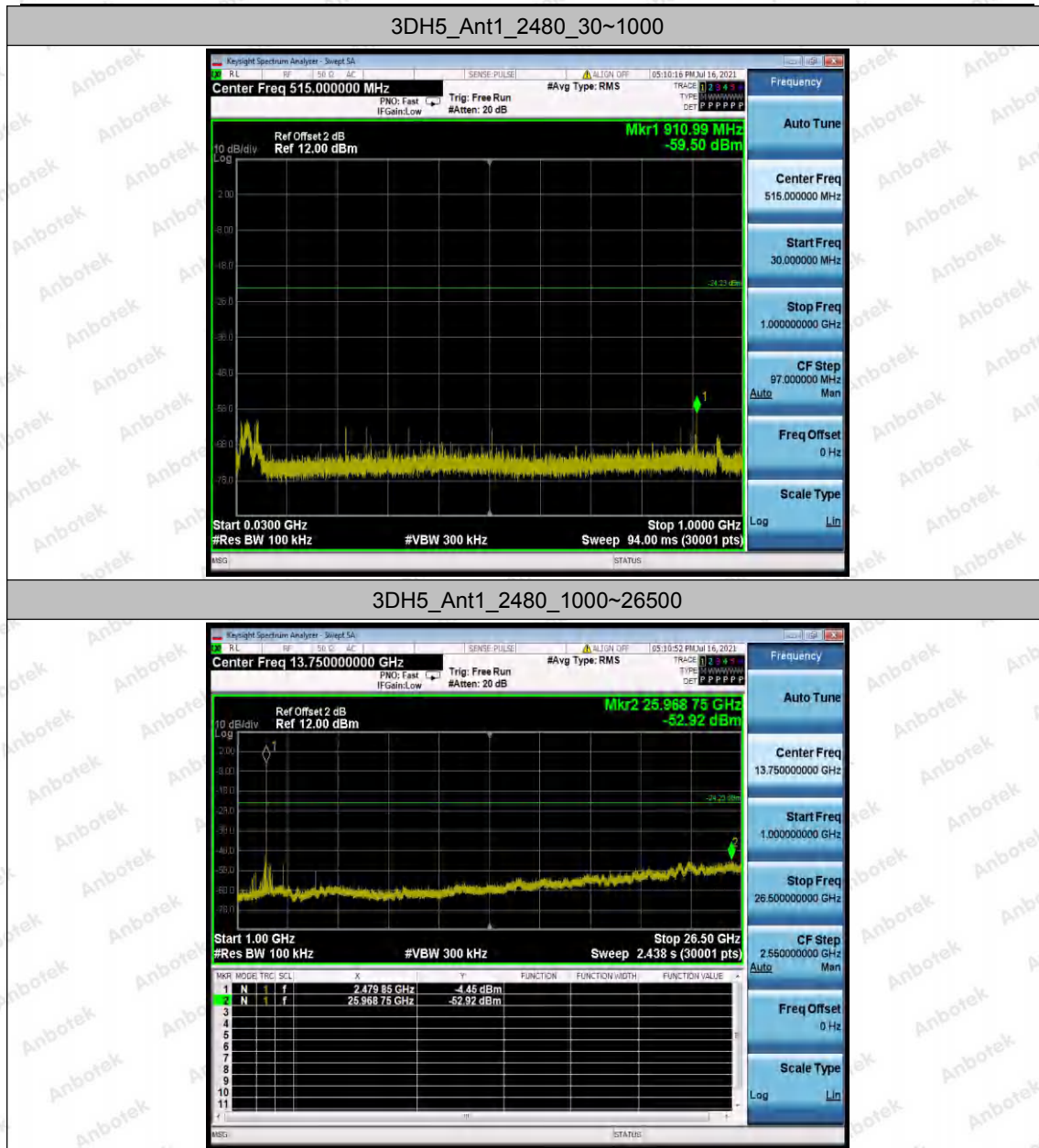
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

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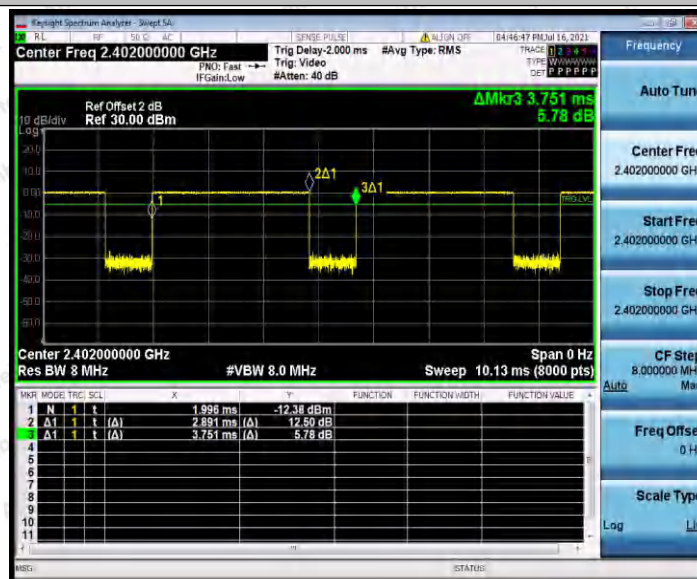
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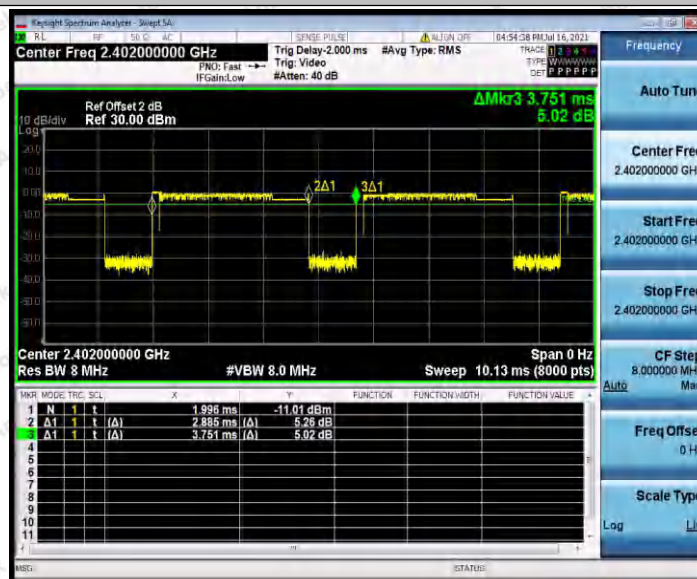
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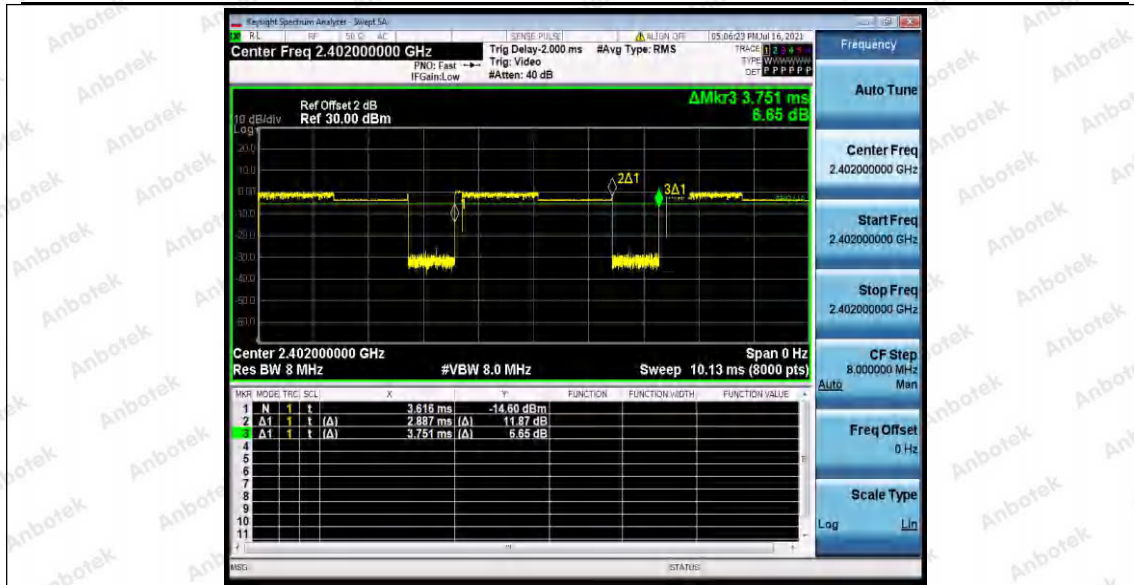
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---