

Appendix Test Data

Report No.:	18220WC10205401	Test Date:	2021.9.8
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	1.125	2401.424	2402.549	---	PASS
		2441	1.125	2440.442	2441.567	---	PASS
		2480	1.131	2479.424	2480.555	---	PASS
2DH5	Ant1	2402	1.350	2401.322	2402.672	---	PASS
		2441	1.356	2440.307	2441.663	---	PASS
		2480	1.362	2479.307	2480.669	---	PASS
3DH5	Ant1	2402	1.374	2401.313	2402.687	---	PASS
		2441	1.347	2440.325	2441.672	---	PASS
		2480	1.371	2479.307	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



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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	0.88255	2401.55 0	2402.433	---	PASS
		2441	0.89204	2440.54 9	2441.441	---	PASS
		2480	0.89330	2479.54 7	2480.440	---	PASS
2DH5	Ant1	2402	1.1959	2401.39 6	2402.591	---	PASS
		2441	1.1941	2440.39 6	2441.590	---	PASS
		2480	1.1828	2479.40 0	2480.583	---	PASS
3DH5	Ant1	2402	1.2124	2401.37 8	2402.591	---	PASS
		2441	1.2057	2440.38 3	2441.588	---	PASS
		2480	1.1966	2479.38 9	2480.586	---	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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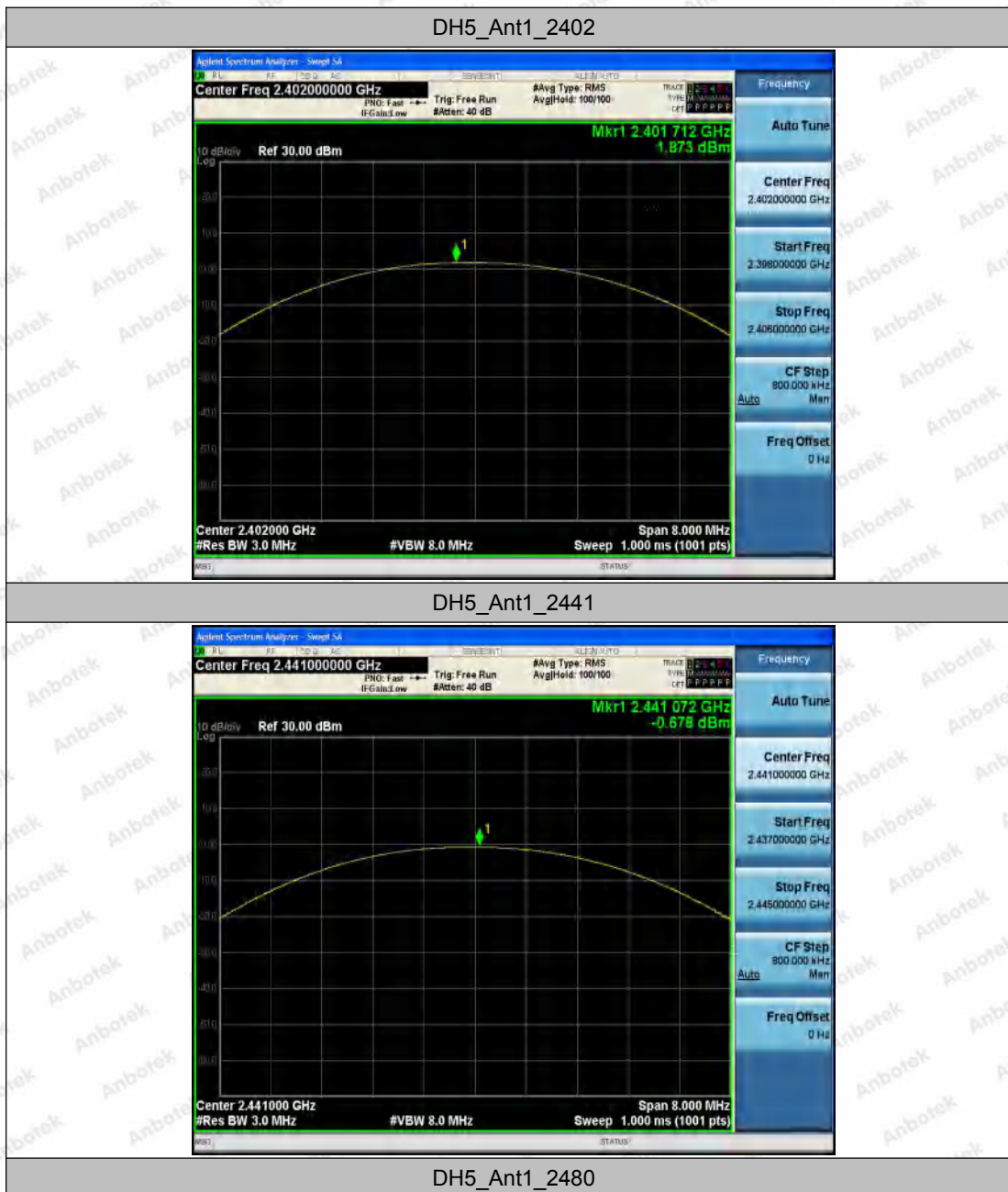
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.87	≤20.97	PASS
		2441	-0.68	≤20.97	PASS
		2480	0.63	≤20.97	PASS
2DH5	Ant1	2402	1.14	≤20.97	PASS
		2441	-1.32	≤20.97	PASS
		2480	-0.23	≤20.97	PASS
3DH5	Ant1	2402	1.36	≤20.97	PASS
		2441	-1.12	≤20.97	PASS
		2480	0	≤20.97	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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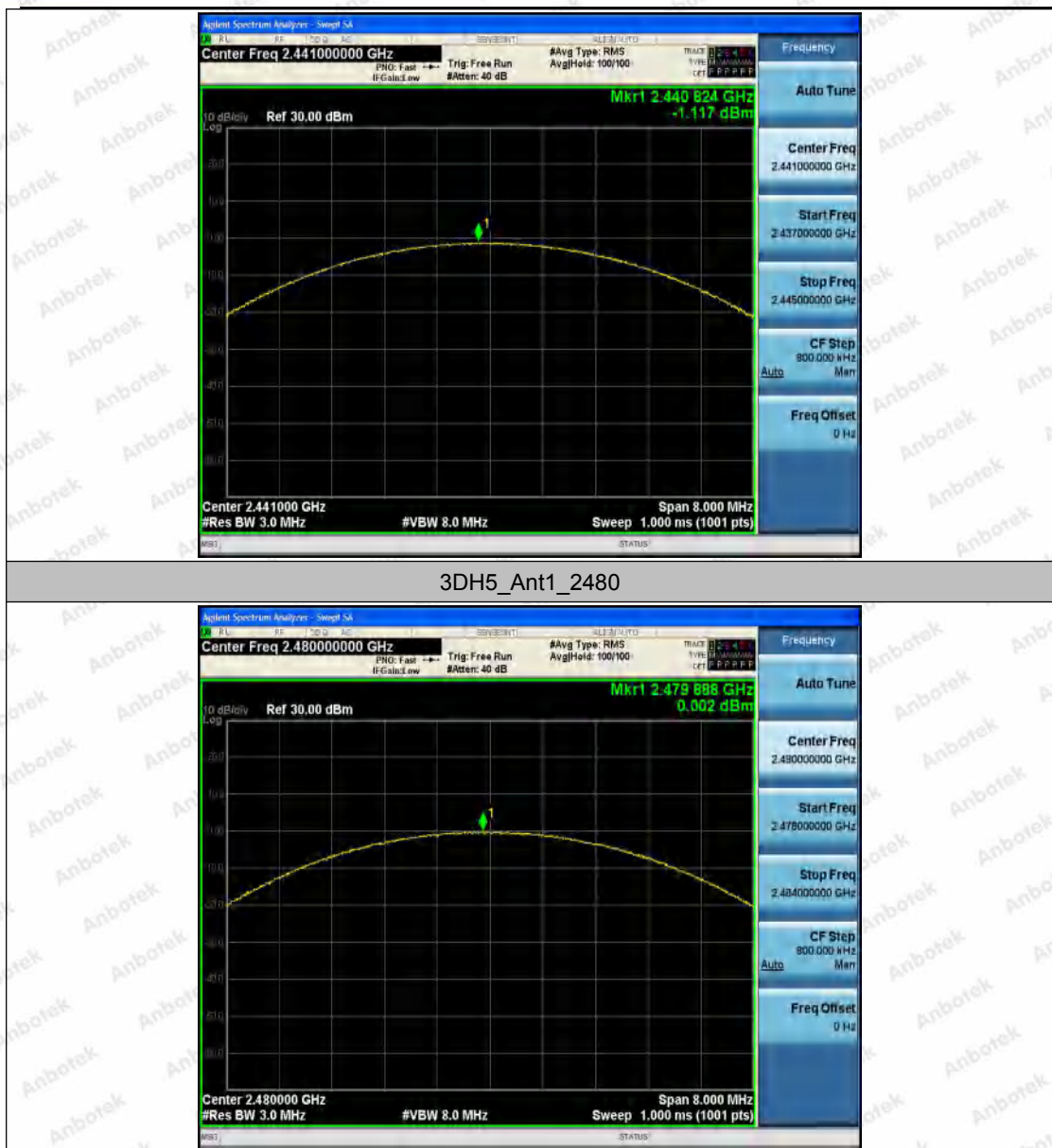
2DH5_Ant1_2480



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	1.144	≥ 1.131	PASS
2DH5	Ant1	Hop	1.084	≥ 0.908	PASS
3DH5	Ant1	Hop	1.044	≥ 0.916	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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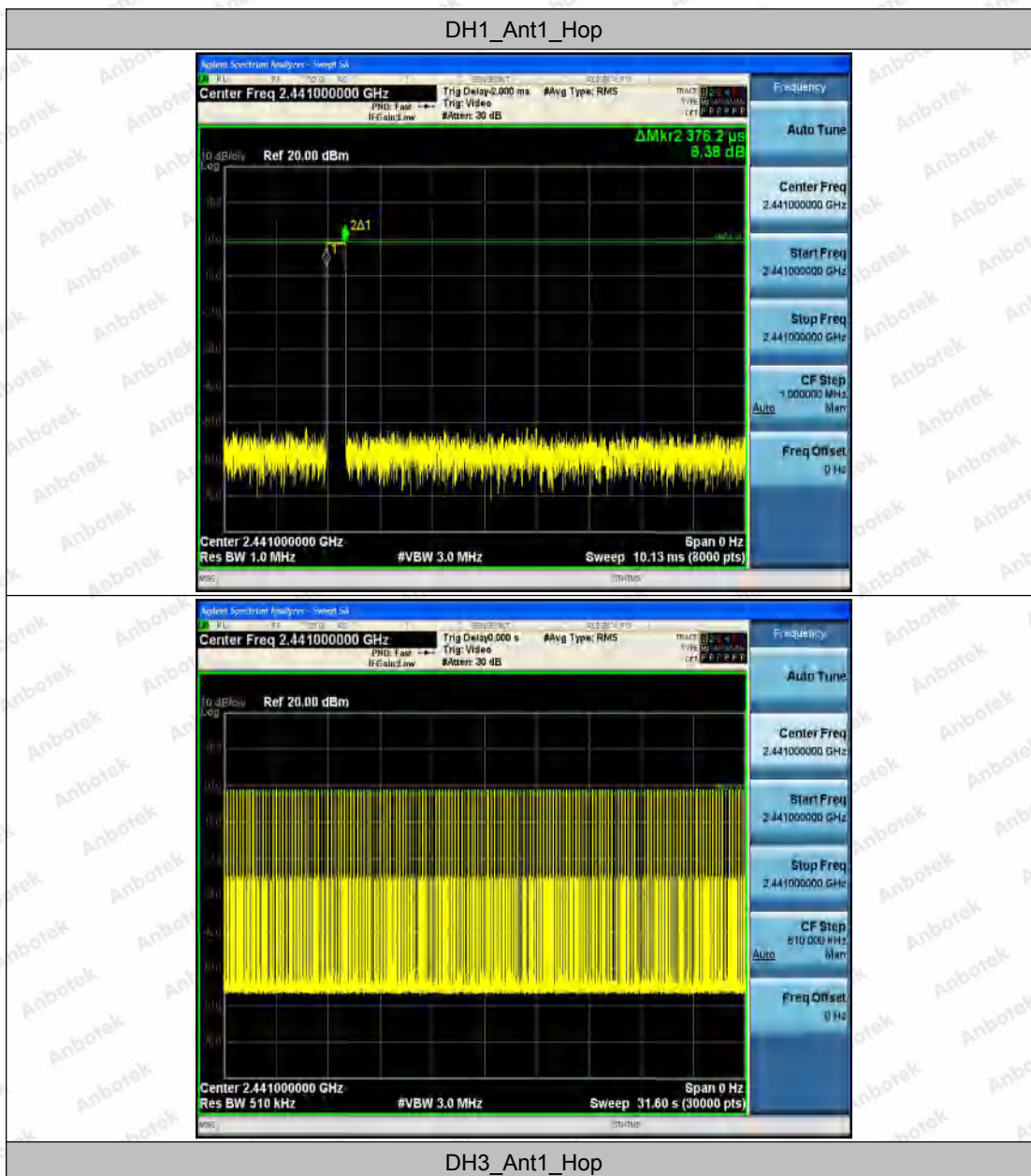
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	111	0.32	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	93	0.268	≤0.4	PASS
3DH1	Ant1	Hop	0.39	315	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.89	107	0.309	≤0.4	PASS

Test Graphs



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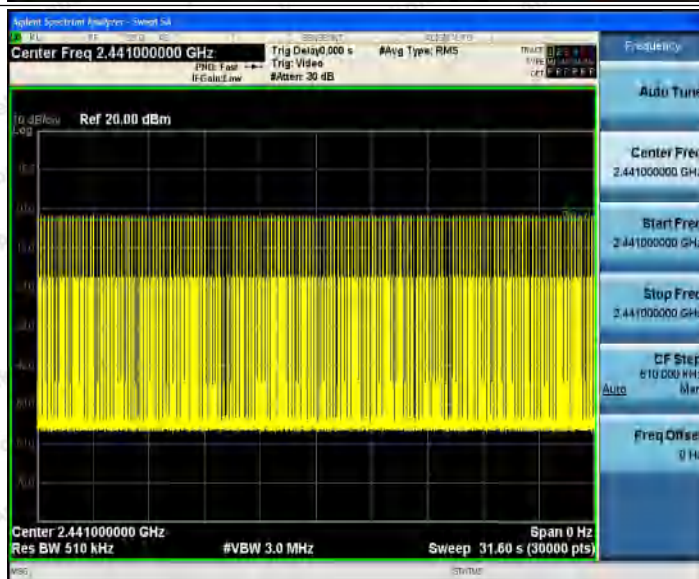
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2DH1_Ant1_Hop



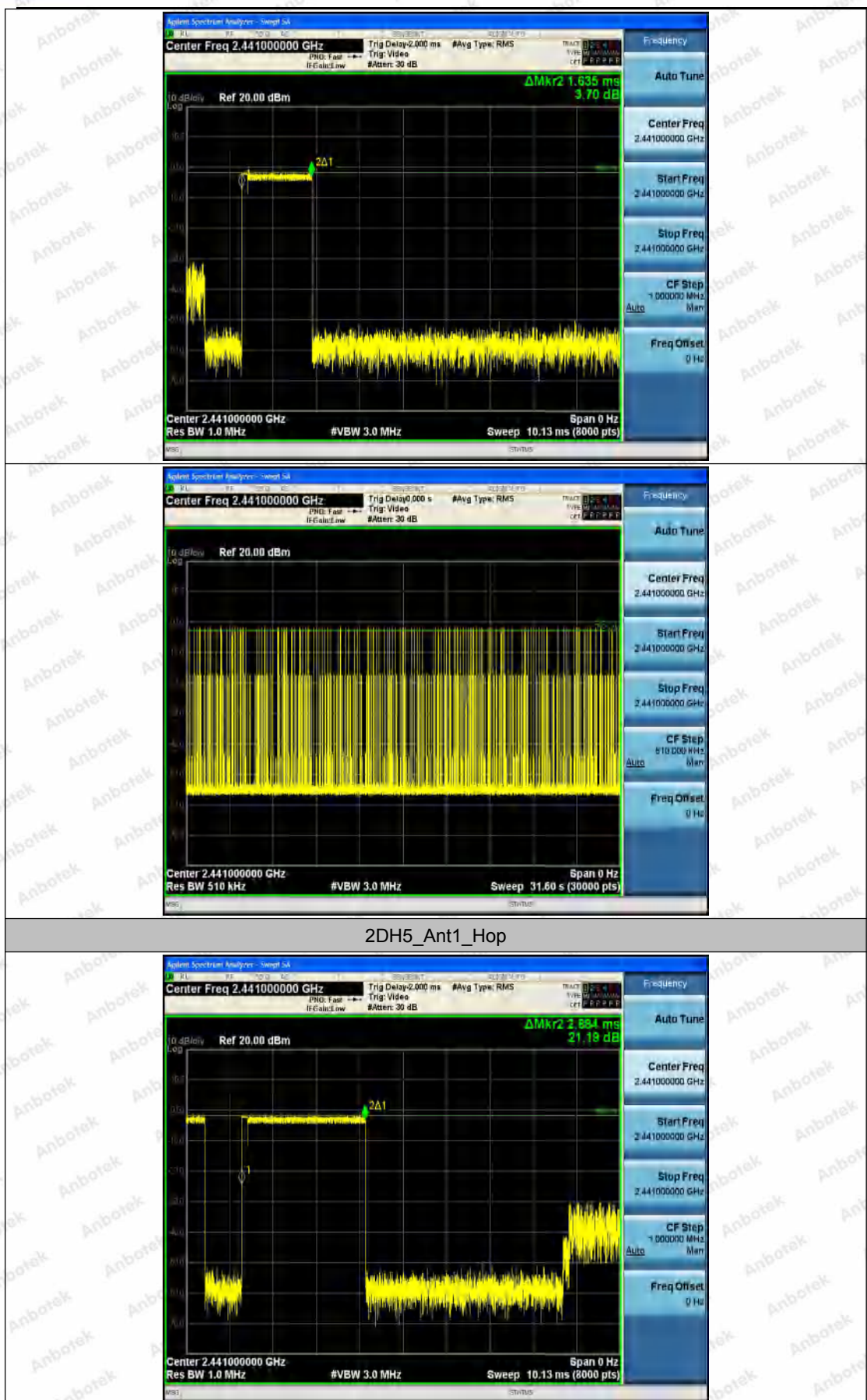
2DH3_Ant1_Hop

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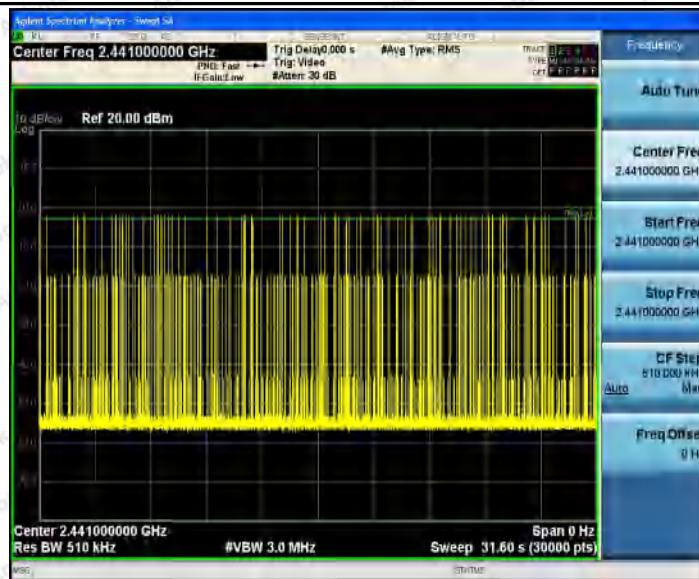


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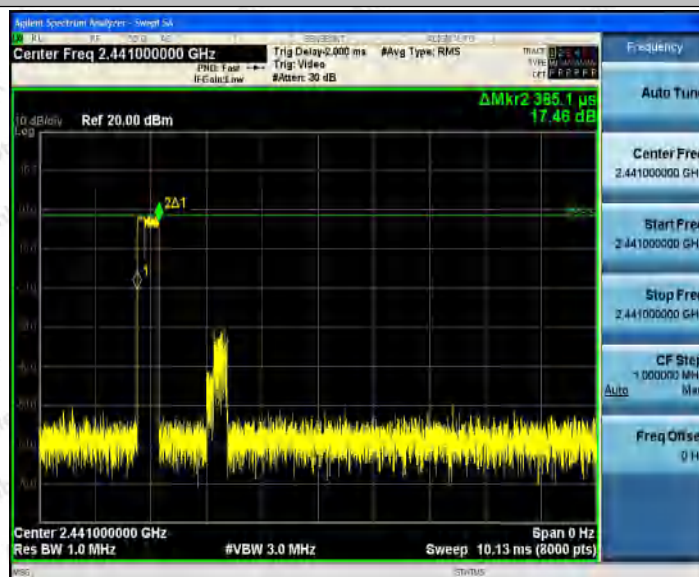
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3DH1_Ant1_Hop



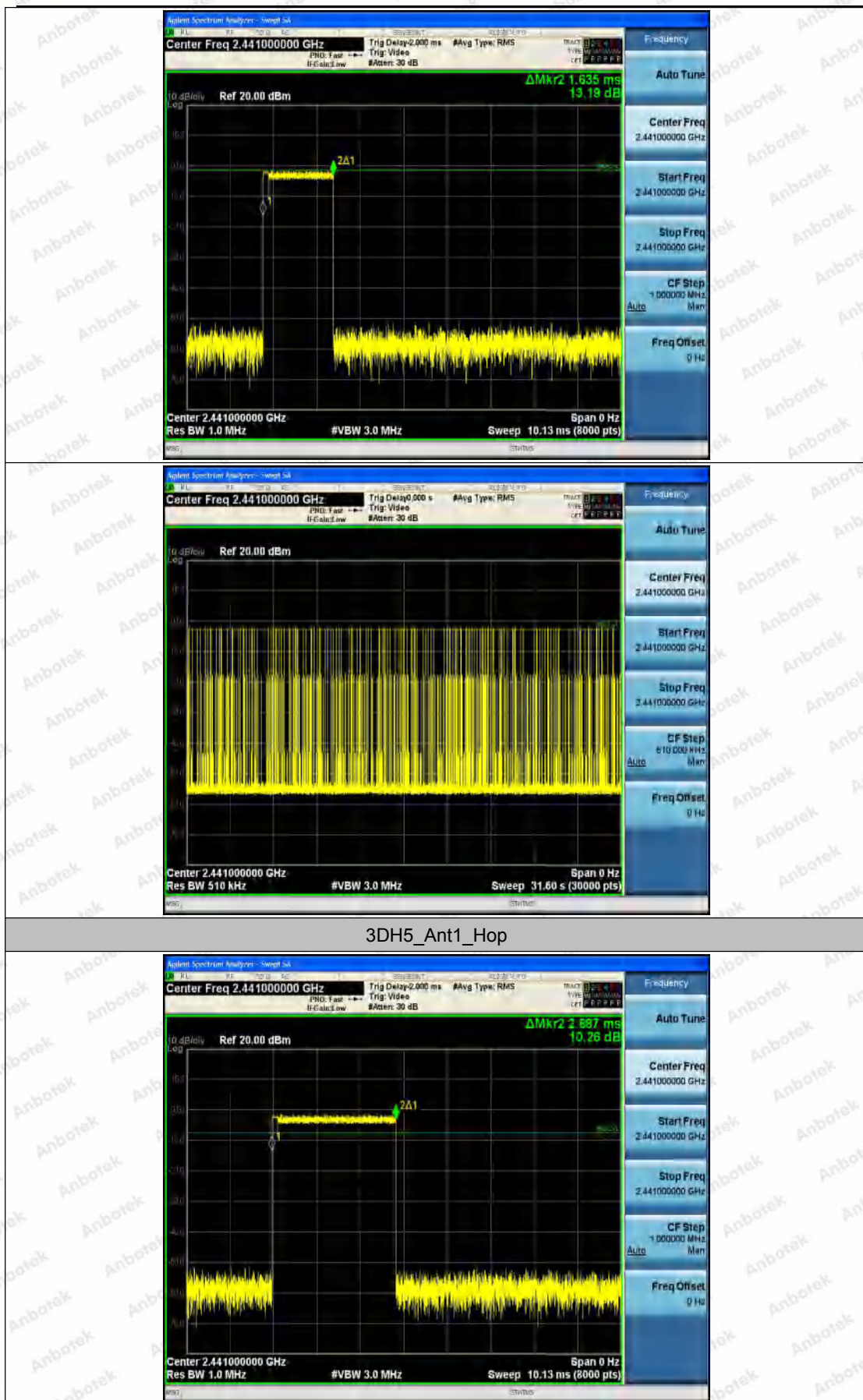
3DH3_Ant1_Hop

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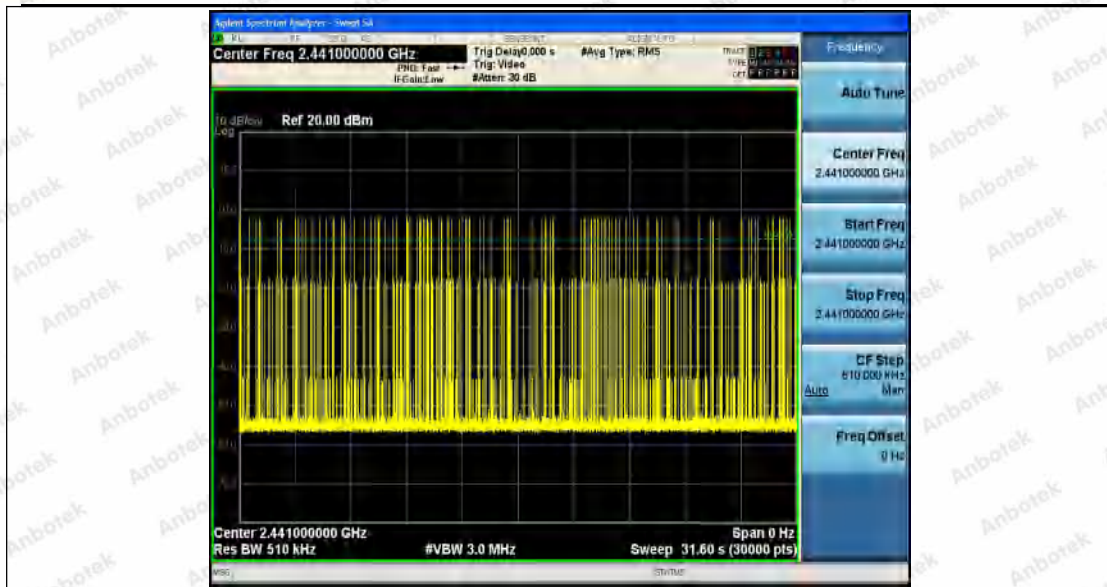
3DH5_Ant1_Hop

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Appendix F: Number of hopping channels

Test Result

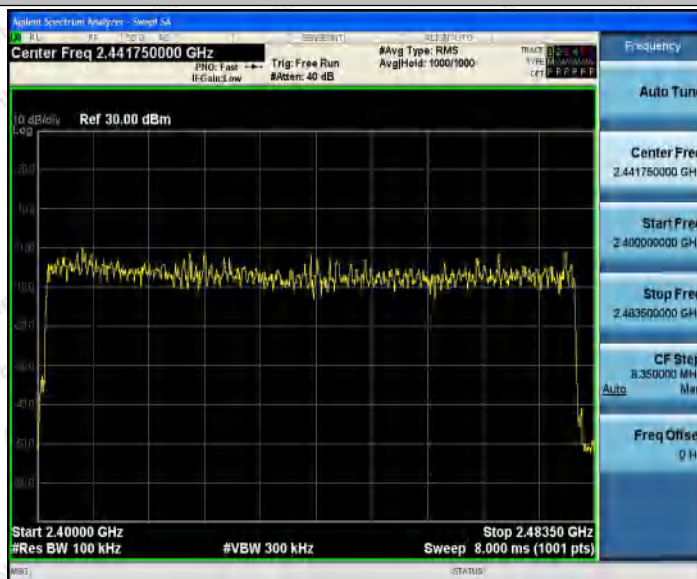
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

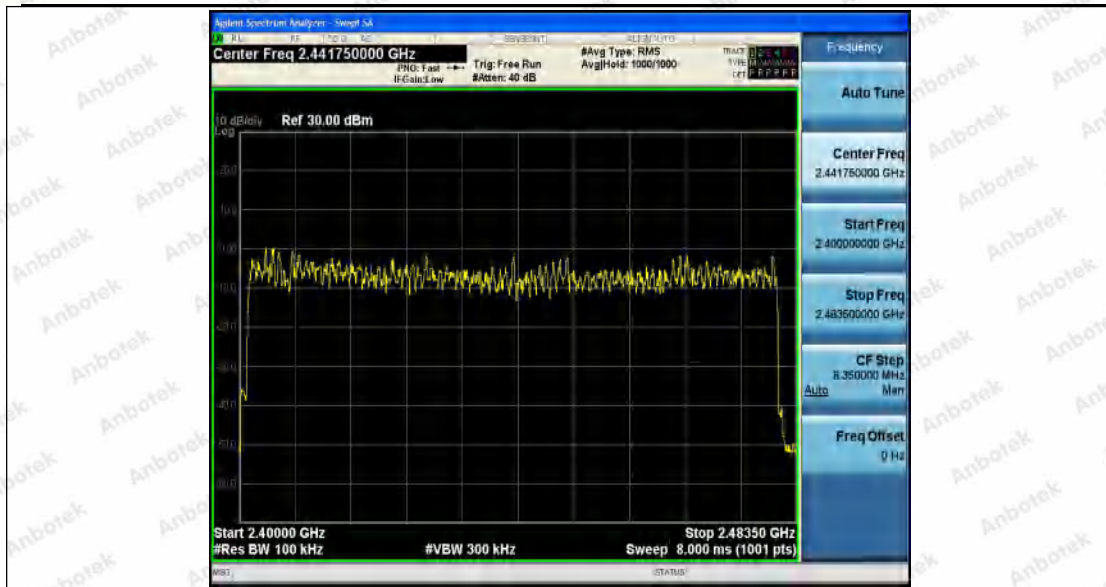
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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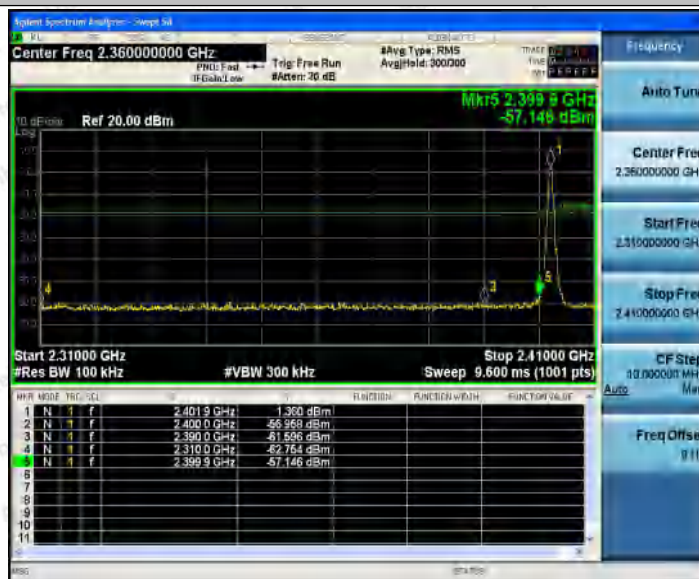
Appendix G: Band edge measurements

Test Result

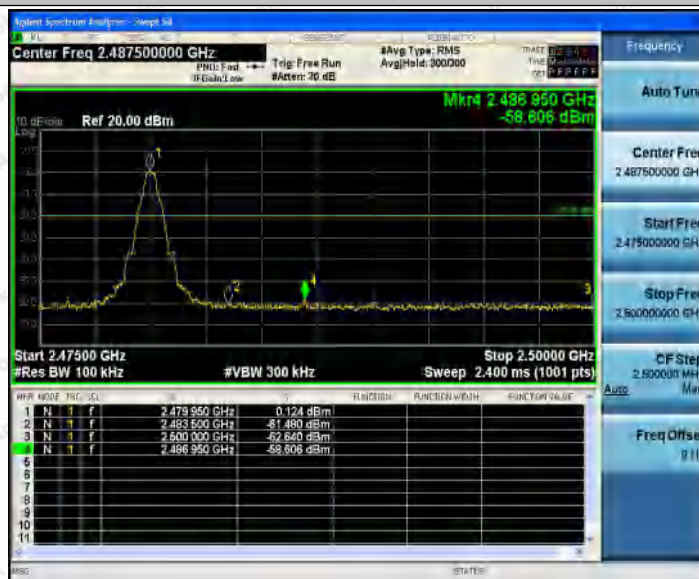
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.36	-57.15	≤-18.64	PASS
		High	2480	0.12	-58.61	≤-19.88	PASS
		Low	Hop	0.73	-59.78	≤-19.27	PASS
		High	Hop	-0.31	-62.51	≤-20.31	PASS
2DH5	Ant1	Low	2402	0.19	-54.14	≤-19.81	PASS
		High	2480	-1.16	-58.84	≤-21.16	PASS
		Low	Hop	-2.99	-54.14	≤-22.99	PASS
		High	Hop	-5.24	-61.38	≤-25.24	PASS
3DH5	Ant1	Low	2402	0.47	-55.85	≤-19.53	PASS
		High	2480	-1.37	-59.43	≤-21.37	PASS
		Low	Hop	-0.64	-59.69	≤-20.64	PASS
		High	Hop	-1.65	-62.73	≤-21.65	PASS

Test Graphs

DH5_Ant1_Low_2402



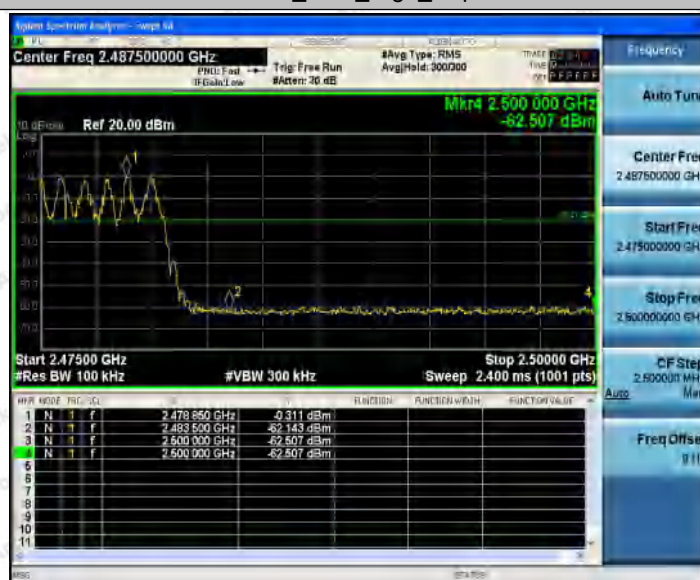
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



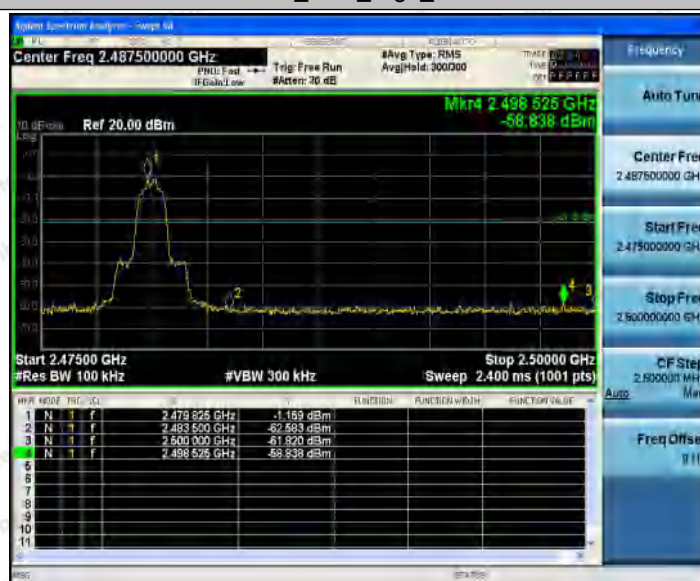
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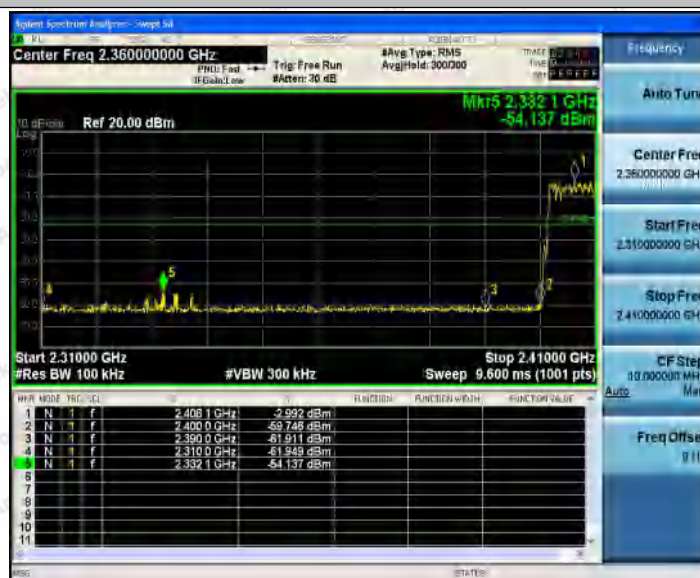
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



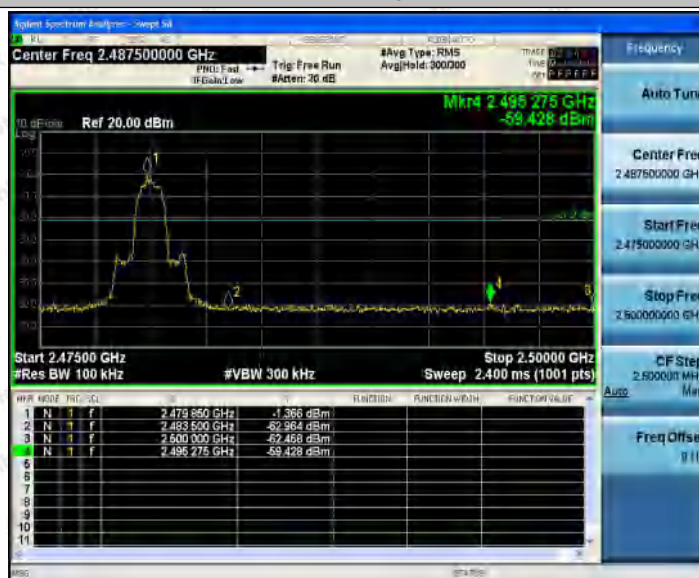
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



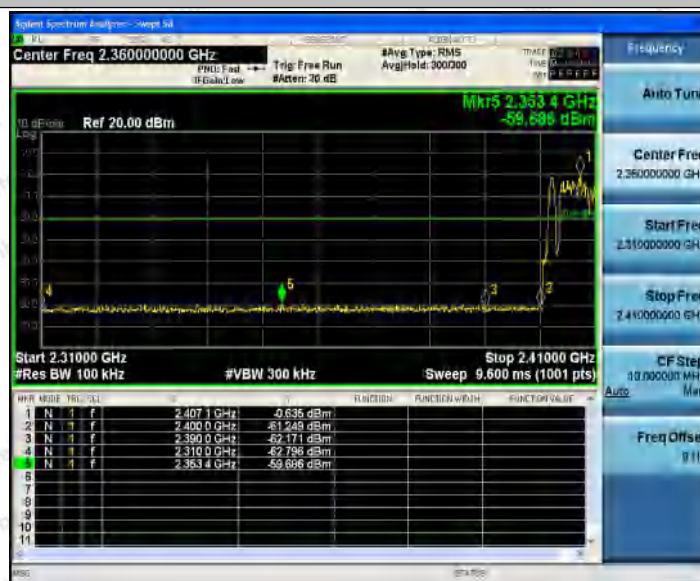
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



Appendix H: Conducted Spurious Emission

Test Result

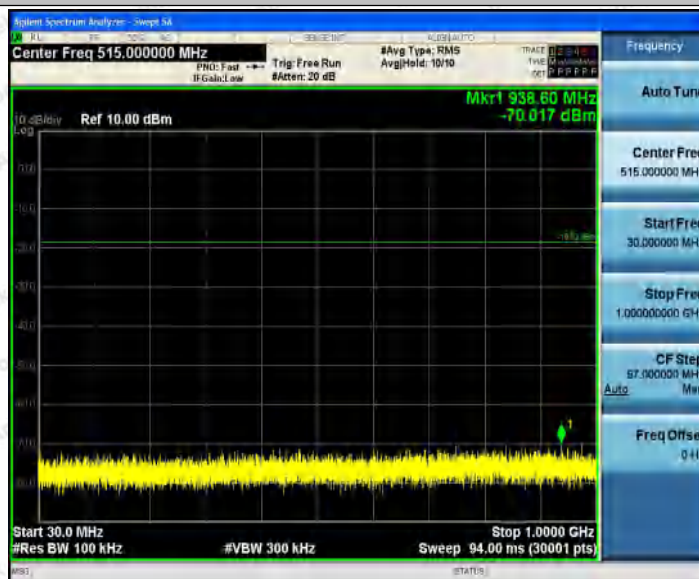
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.38	1.38	---	PASS
			30~1000	1.38	-70.02	≤-18.62	PASS
			1000~26500	1.38	-39.97	≤-18.62	PASS
		2441	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-70.31	≤-20.9	PASS
			1000~26500	-0.90	-45.69	≤-20.9	PASS
		2480	Reference	-0.22	-0.22	---	PASS
			30~1000	-0.22	-70.15	≤-20.22	PASS
			1000~26500	-0.22	-48.94	≤-20.22	PASS
2DH5	Ant1	2402	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-70.35	≤-20.25	PASS
			1000~26500	-0.25	-42.85	≤-20.25	PASS
		2441	Reference	-2.35	-2.35	---	PASS
			30~1000	-2.35	-70.48	≤-22.35	PASS
			1000~26500	-2.35	-48.8	≤-22.35	PASS
		2480	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-70.43	≤-21.79	PASS
			1000~26500	-1.79	-50.47	≤-21.79	PASS
3DH5	Ant1	2402	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-69.83	≤-20.2	PASS
			1000~26500	-0.20	-45.69	≤-20.2	PASS
		2441	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-70.04	≤-22.18	PASS
			1000~26500	-2.18	-48.45	≤-22.18	PASS
		2480	Reference	-1.52	-1.52	---	PASS
			30~1000	-1.52	-70.12	≤-21.52	PASS
			1000~26500	-1.52	-52.86	≤-21.52	PASS

Test Graphs

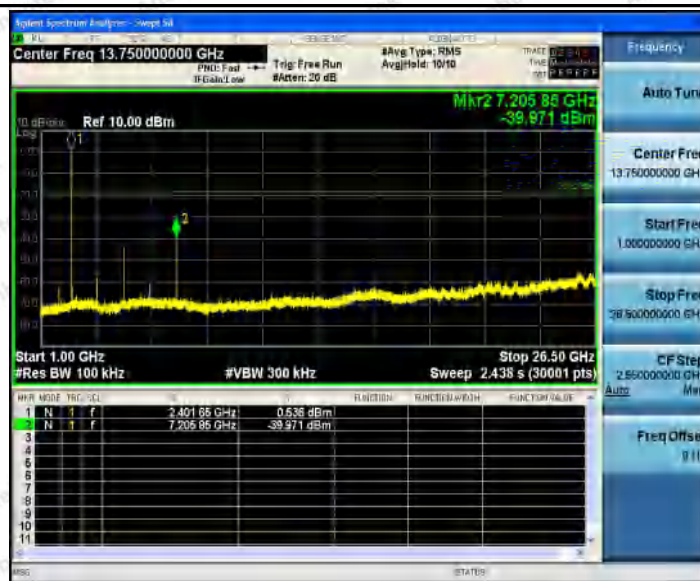
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DH5_Ant1_2402_30~1000



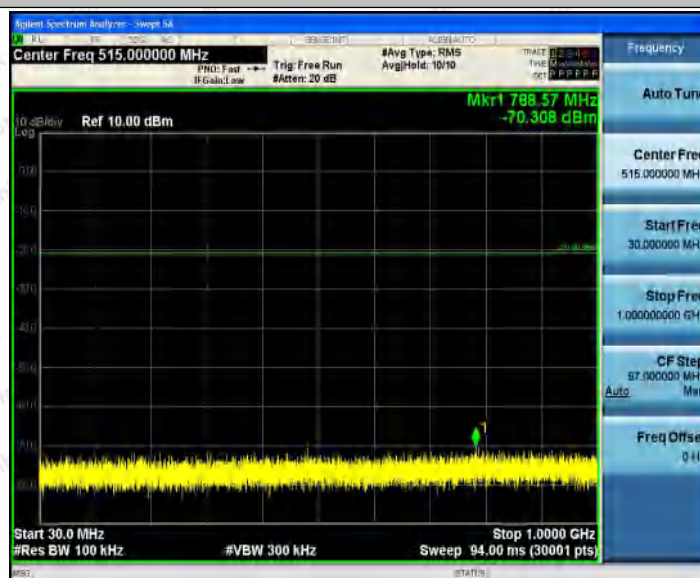
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



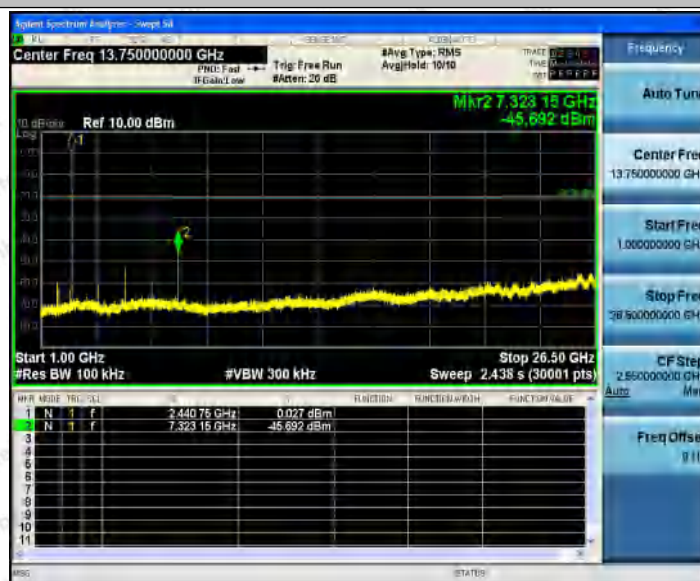
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



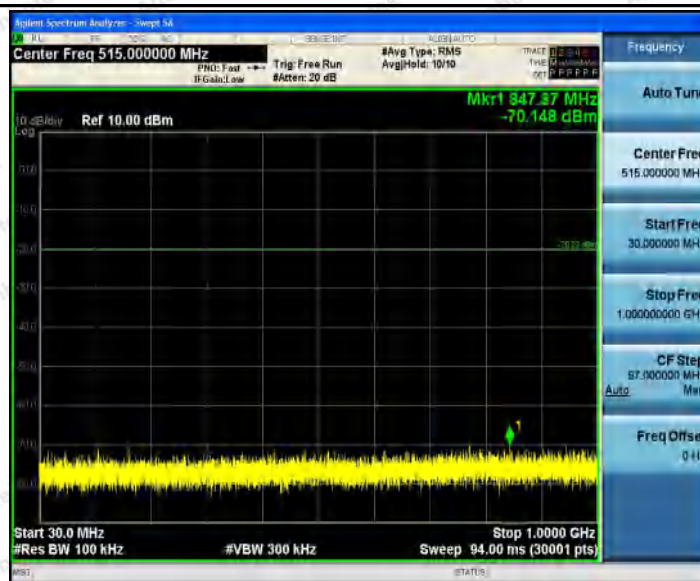
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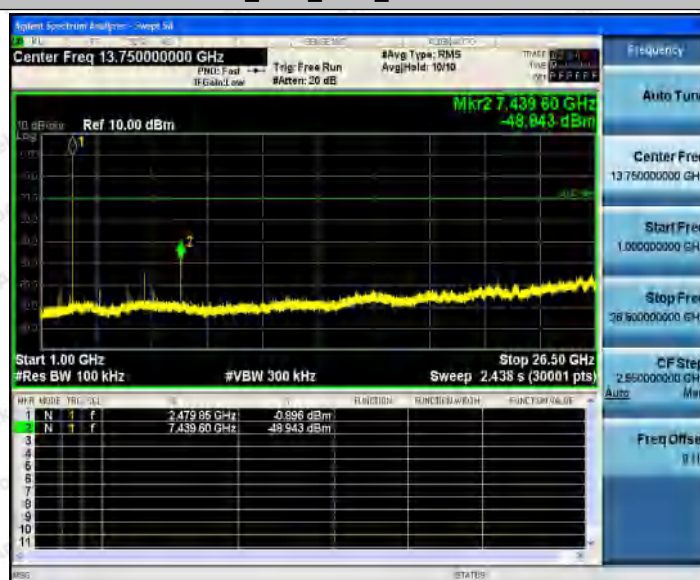
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



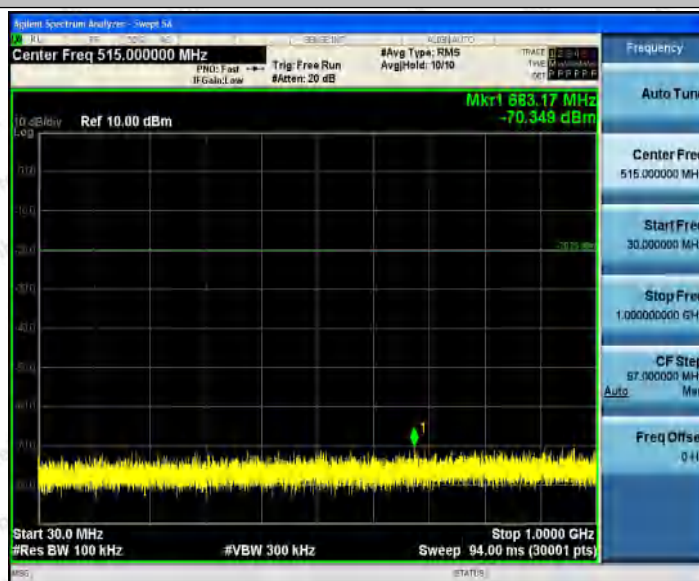
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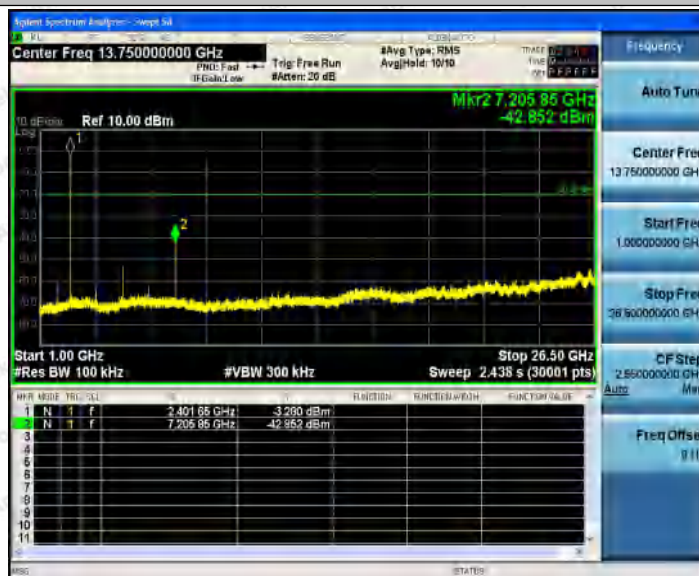
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2DH5_Ant1_2402_30~1000



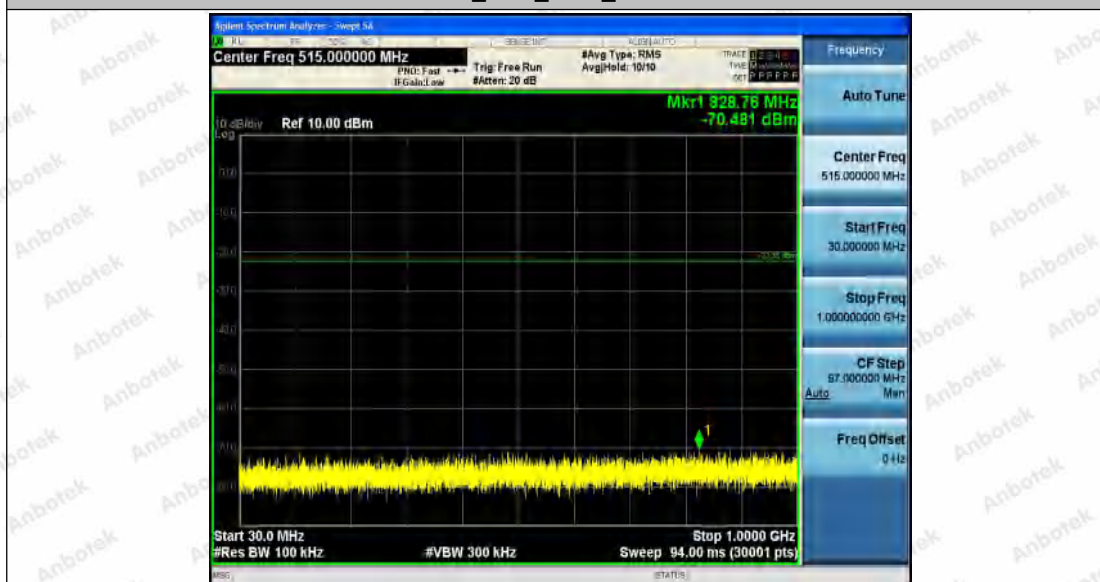
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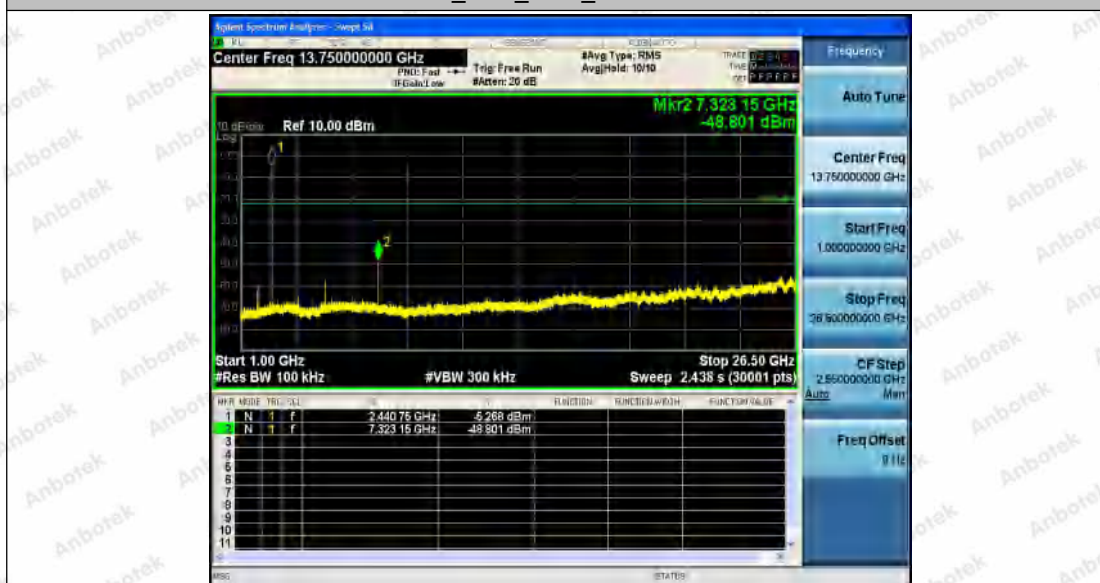
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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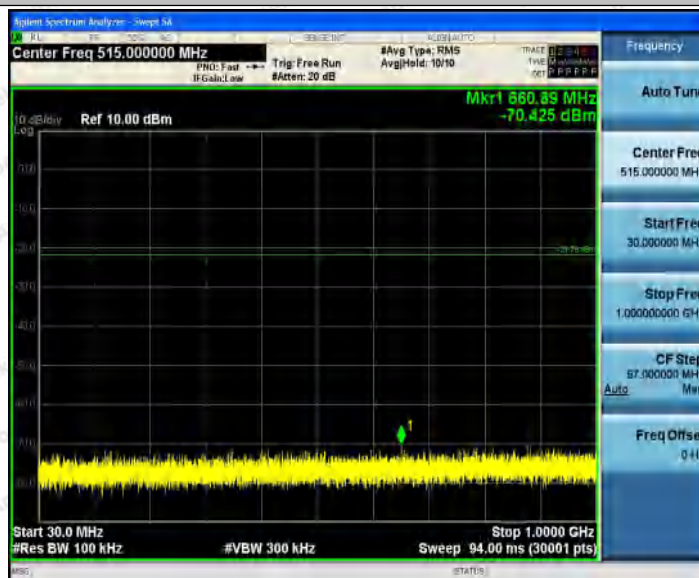
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



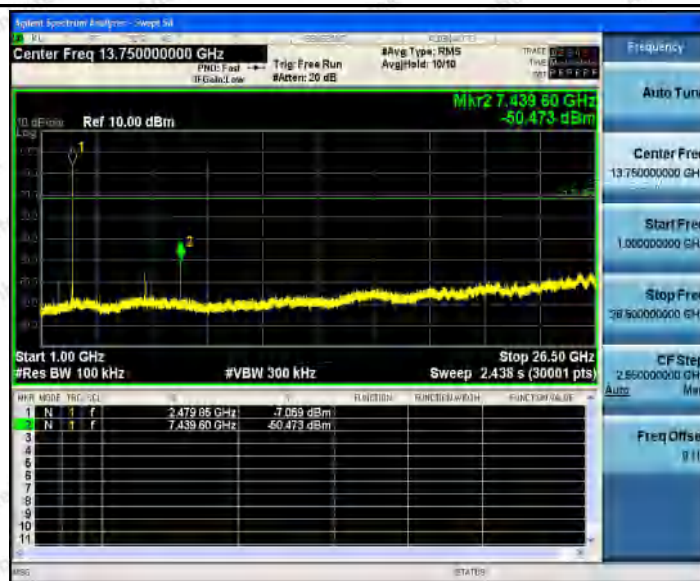
2DH5_Ant1_2480_1000~26500

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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



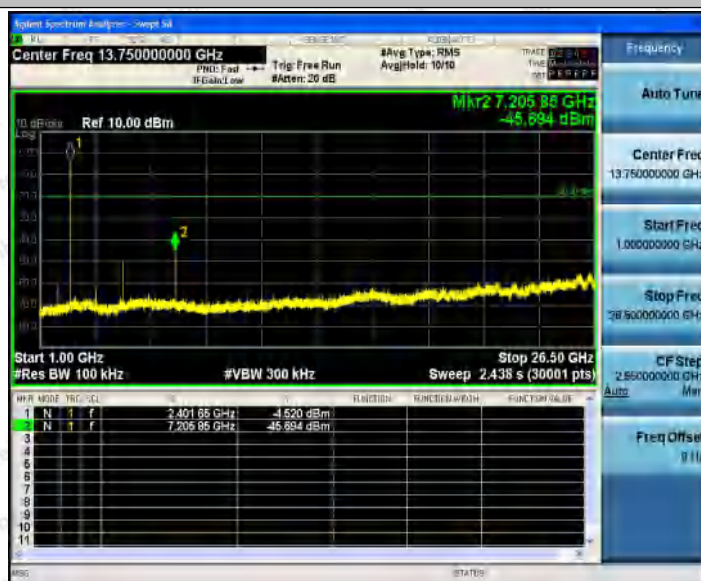
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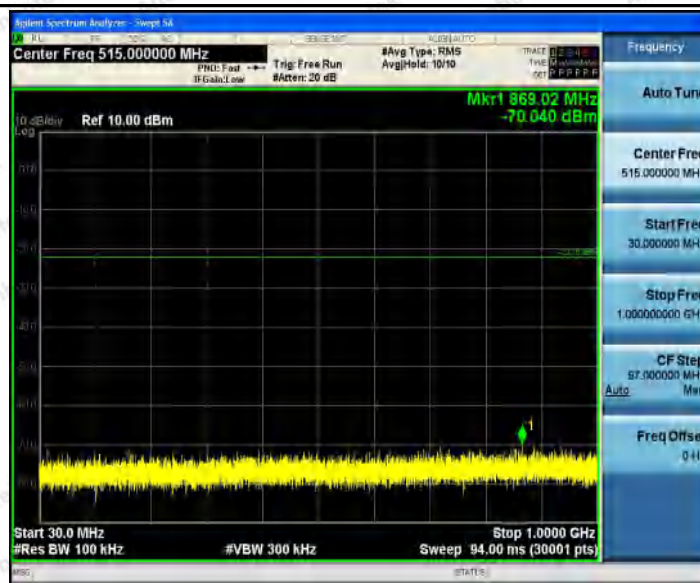
3DH5_Ant1_2402_1000~26500



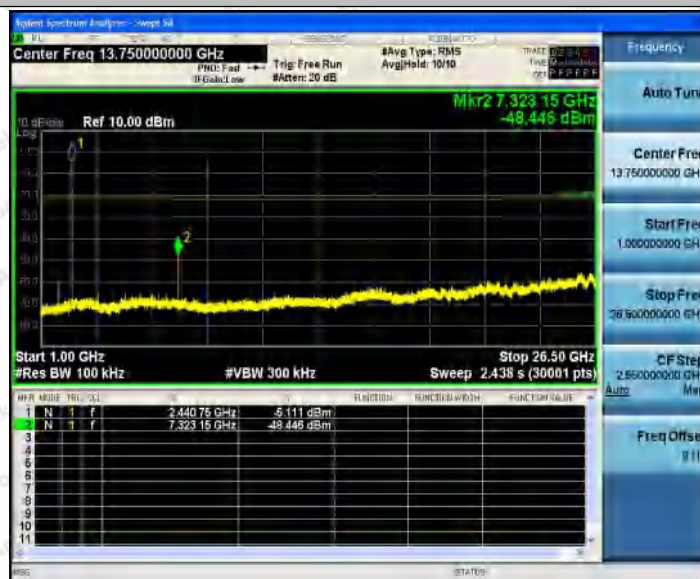
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

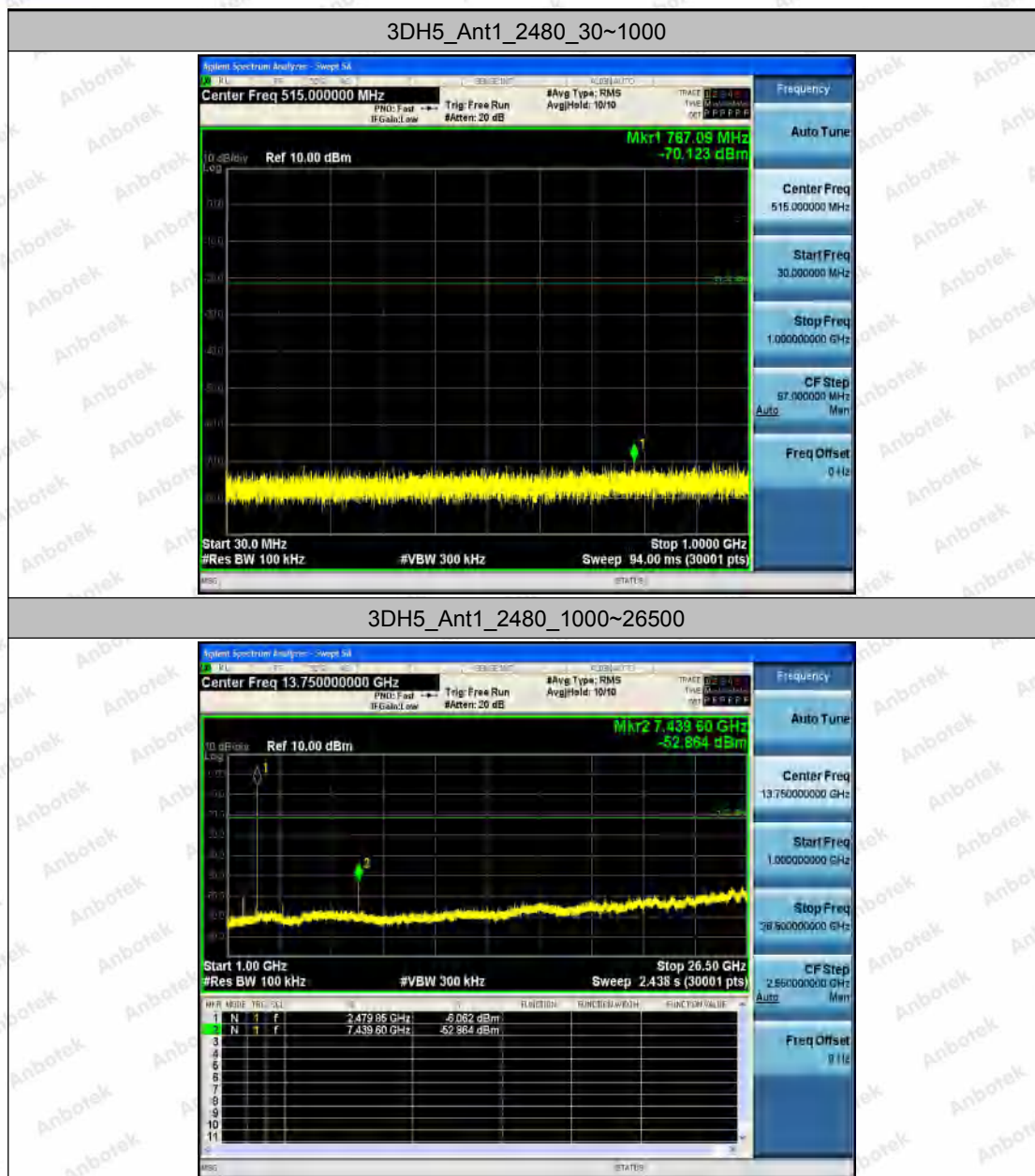


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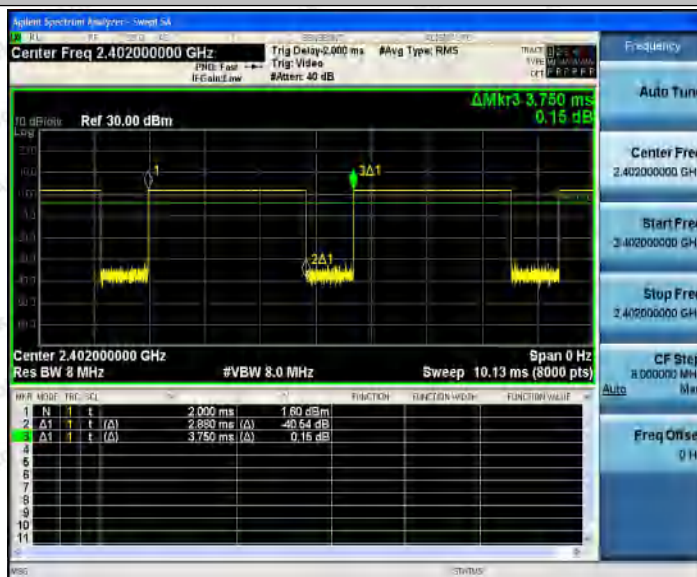
Appendix I: Duty Cycle

Test Result

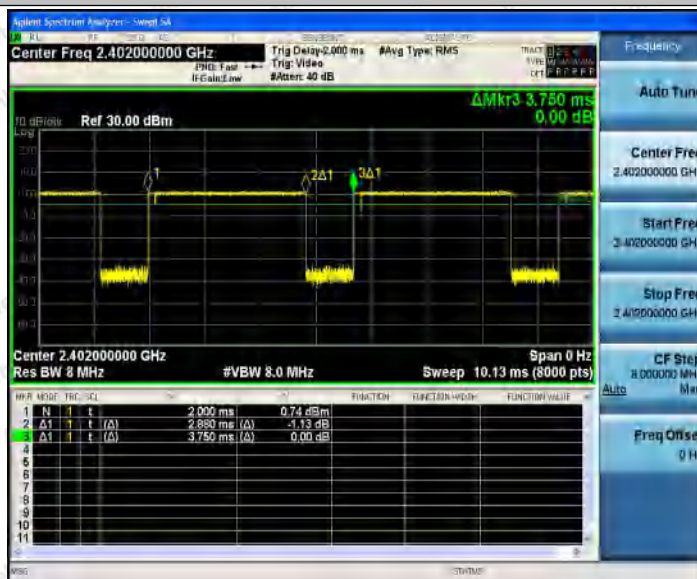
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS

Test Graphs

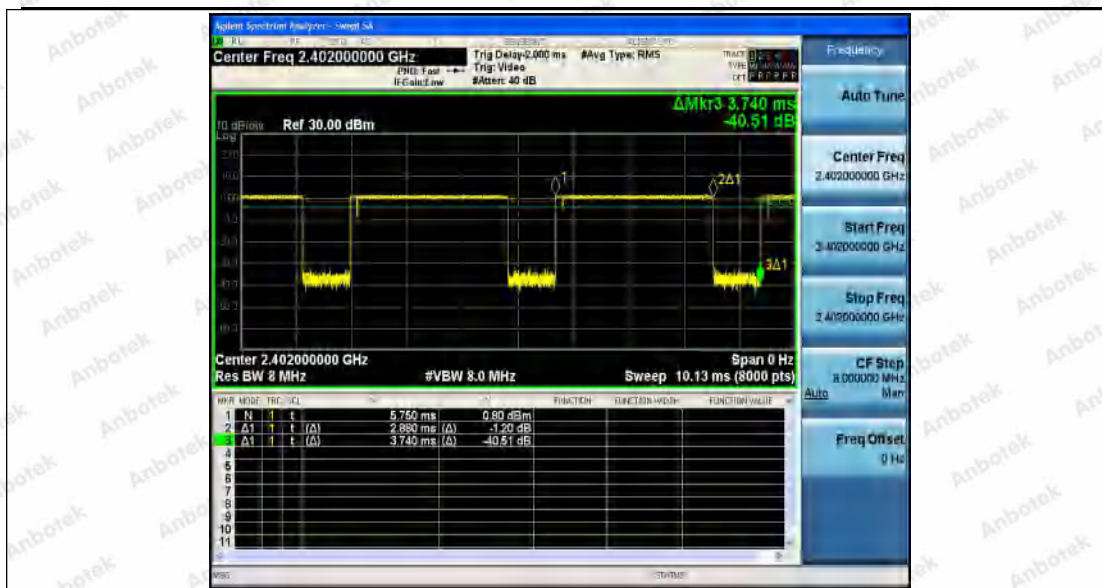
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---