

Appendix Test Data

Report No.:	18220WC20149701	Test Sample No.:	1-2-2
Start Test Date:	2022.7.6	Finish Test Date:	2022.7.15
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.7℃	Relative Humidity:	55%
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	0.948	2401.511	2402.459	---	PASS
		2441	0.942	2440.511	2441.453	---	PASS
		2480	0.945	2479.511	2480.456	---	PASS
2DH5	Ant1	2402	1.320	2401.313	2402.633	---	PASS
		2441	1.320	2440.313	2441.633	---	PASS
		2480	1.326	2479.310	2480.636	---	PASS
3DH5	Ant1	2402	1.269	2401.352	2402.621	---	PASS
		2441	1.272	2440.355	2441.627	---	PASS
		2480	1.275	2479.349	2480.624	---	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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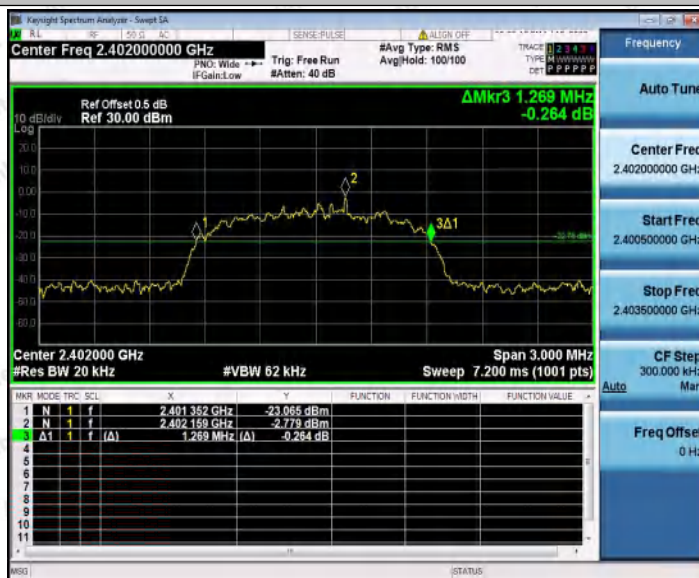
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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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	0.85292	2401.54 4	2402.397	---	PASS
		2441	0.84700	2440.54 5	2441.392	---	PASS
		2480	0.83952	2479.55 3	2480.393	---	PASS
2DH5	Ant1	2402	1.1767	2401.38 5	2402.562	---	PASS
		2441	1.1752	2440.38 5	2441.561	---	PASS
		2480	1.1817	2479.38 2	2480.563	---	PASS
3DH5	Ant1	2402	1.1942	2401.39 5	2402.589	---	PASS
		2441	1.2044	2440.38 8	2441.593	---	PASS
		2480	1.2065	2479.38 7	2480.593	---	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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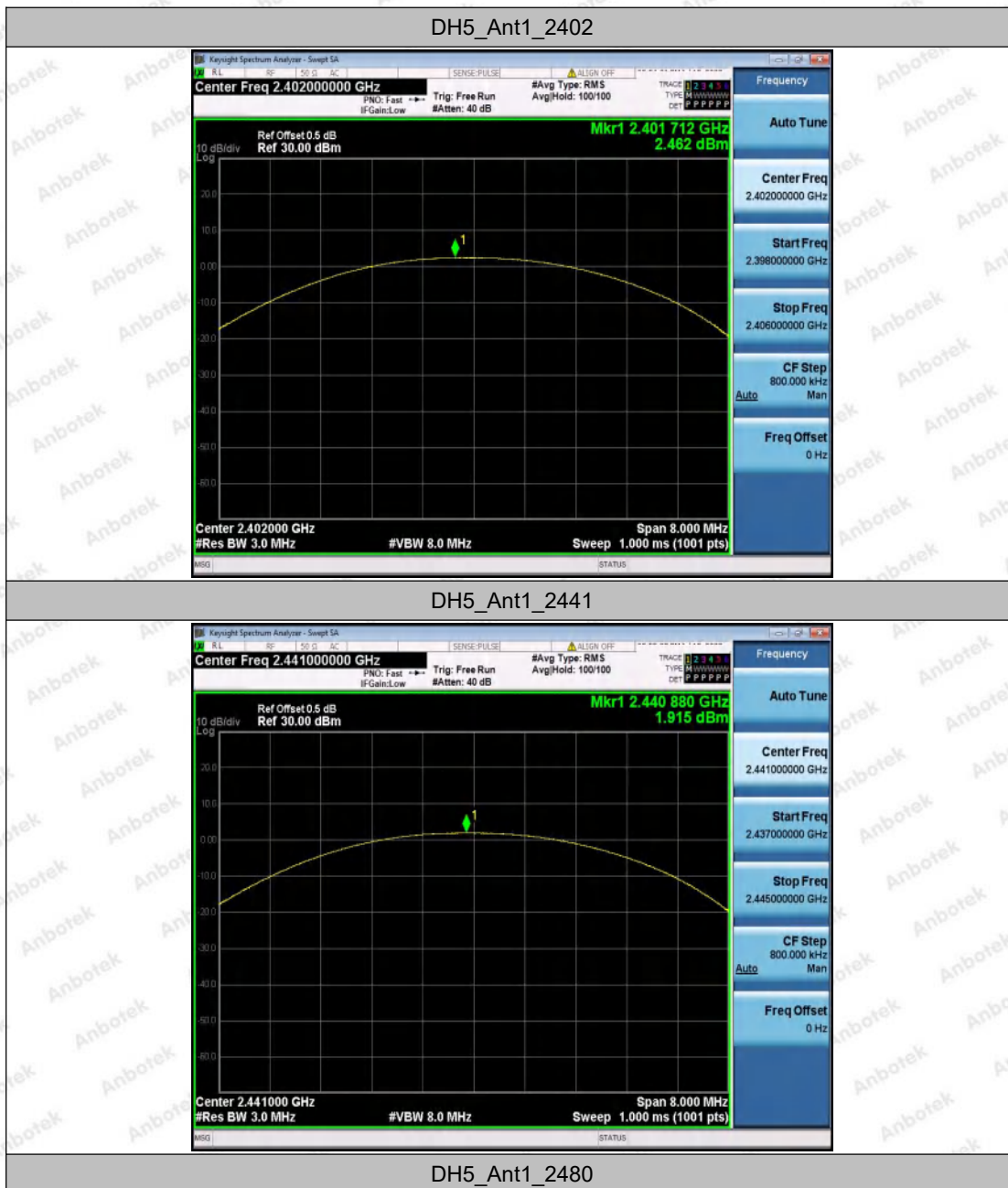
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.46	≤20.97	PASS
		2441	1.92	≤20.97	PASS
		2480	0.91	≤20.97	PASS
2DH5	Ant1	2402	1.62	≤20.97	PASS
		2441	1.39	≤20.97	PASS
		2480	0.68	≤20.97	PASS
3DH5	Ant1	2402	1.69	≤20.97	PASS
		2441	1.36	≤20.97	PASS
		2480	0.74	≤20.97	PASS

Test Graphs



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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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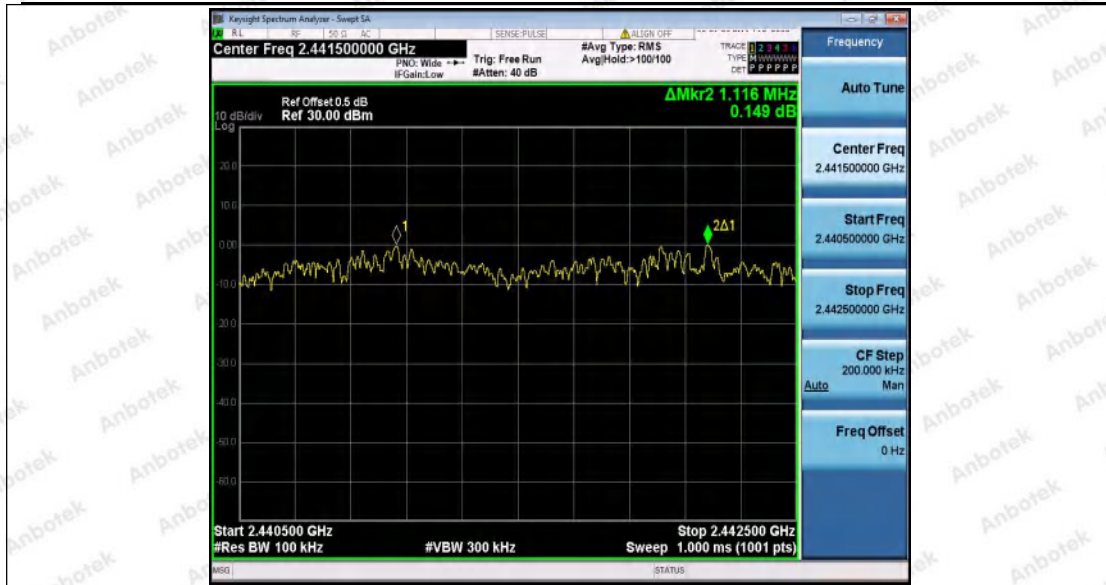
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.144	≥ 0.948	PASS
2DH5	Ant1	Hop	1.226	≥ 0.884	PASS
3DH5	Ant1	Hop	1.116	≥ 0.850	PASS

Test Graphs





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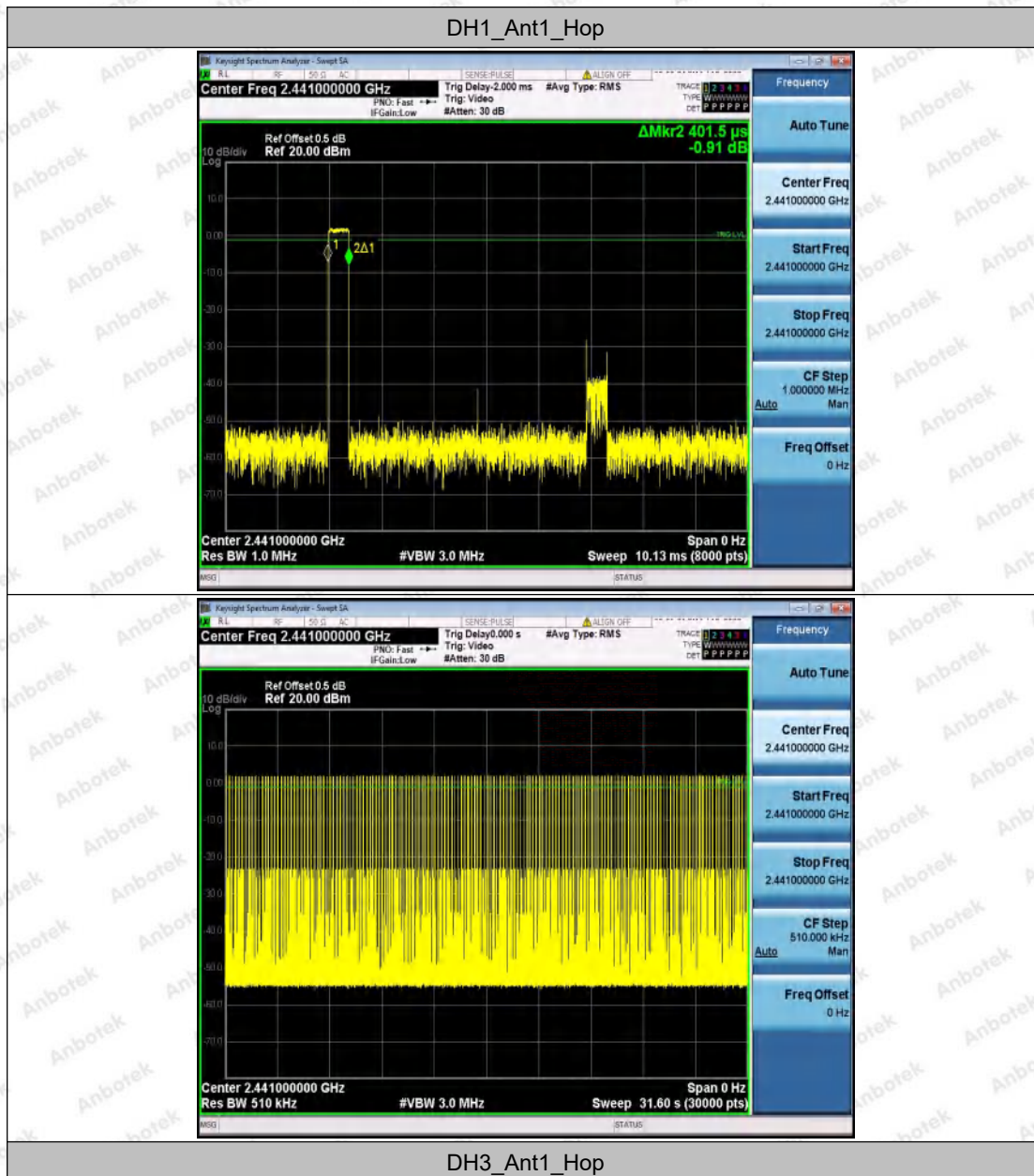
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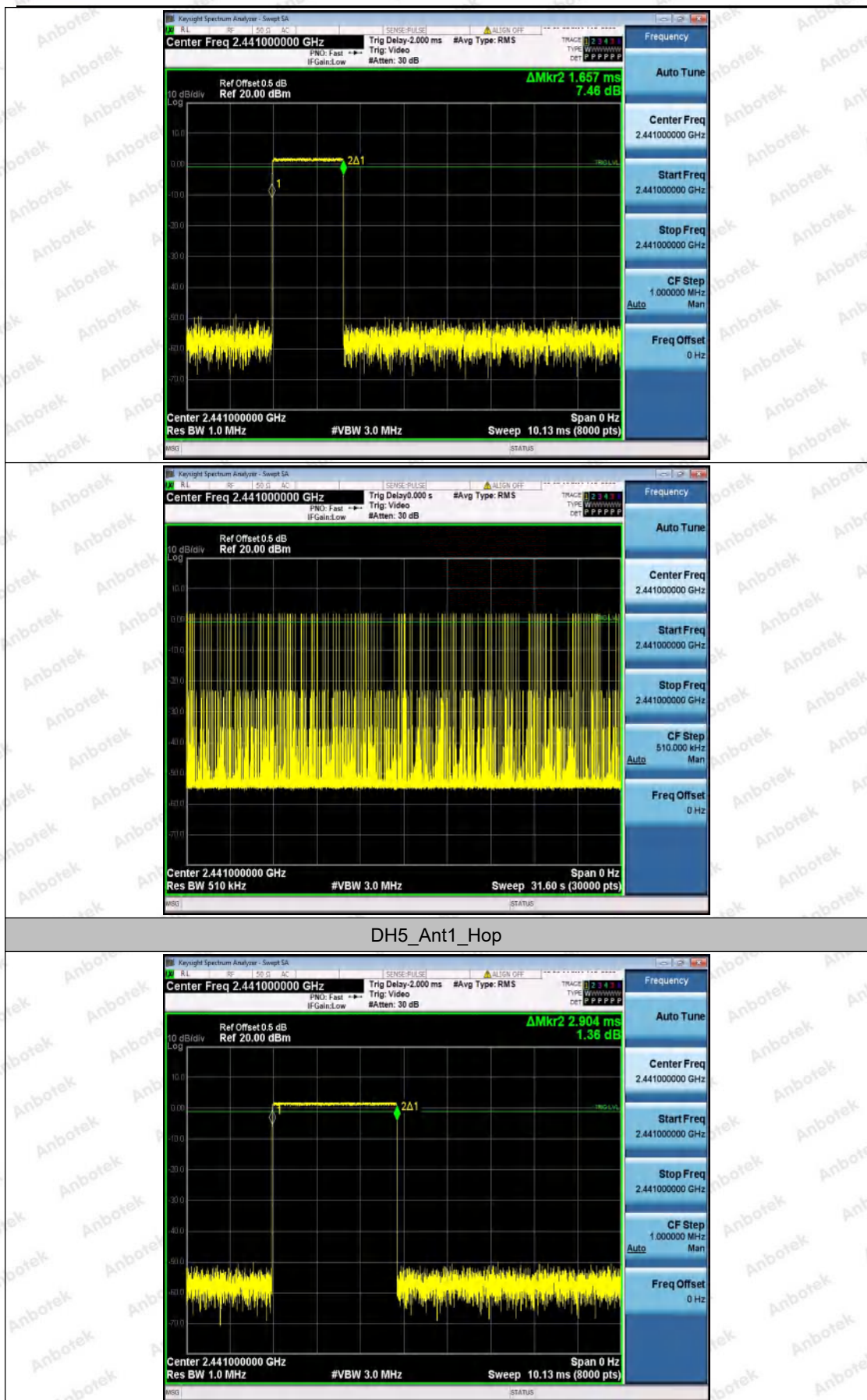
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	314	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.66	152	0.252	≤0.4	PASS
DH5	Ant1	Hop	2.90	94	0.273	≤0.4	PASS
2DH1	Ant1	Hop	0.41	313	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.66	151	0.251	≤0.4	PASS
2DH5	Ant1	Hop	2.91	95	0.277	≤0.4	PASS
3DH1	Ant1	Hop	0.38	312	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.88	115	0.331	≤0.4	PASS

Test Graphs





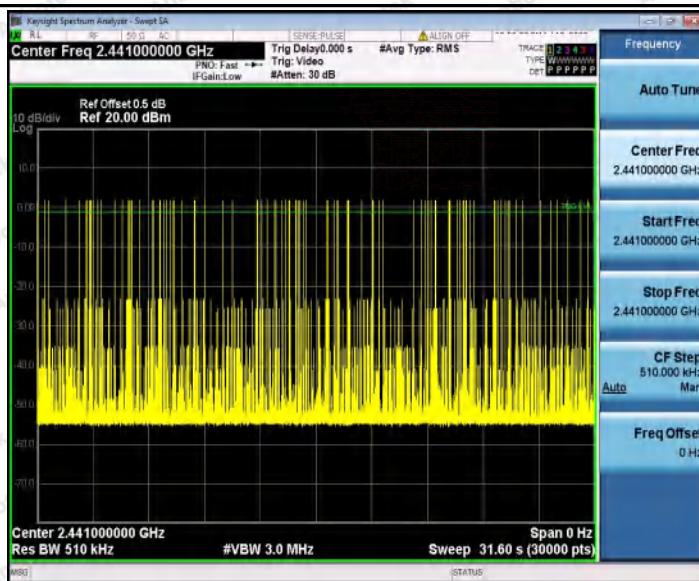
DH5_Ant1_Hop

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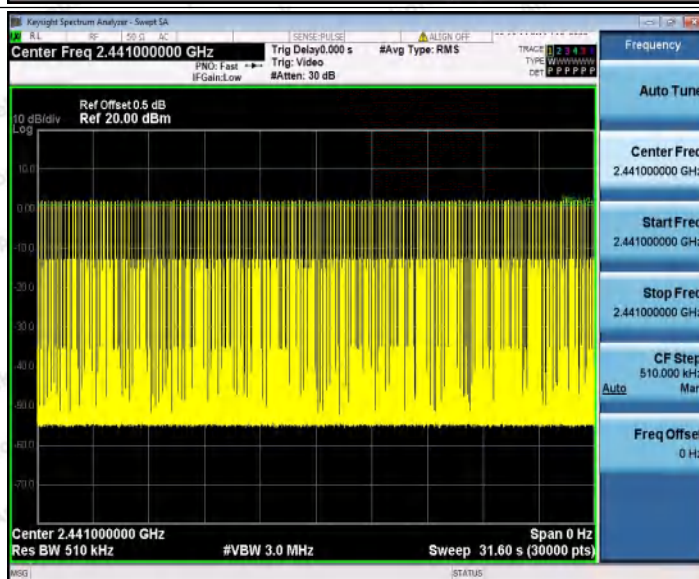
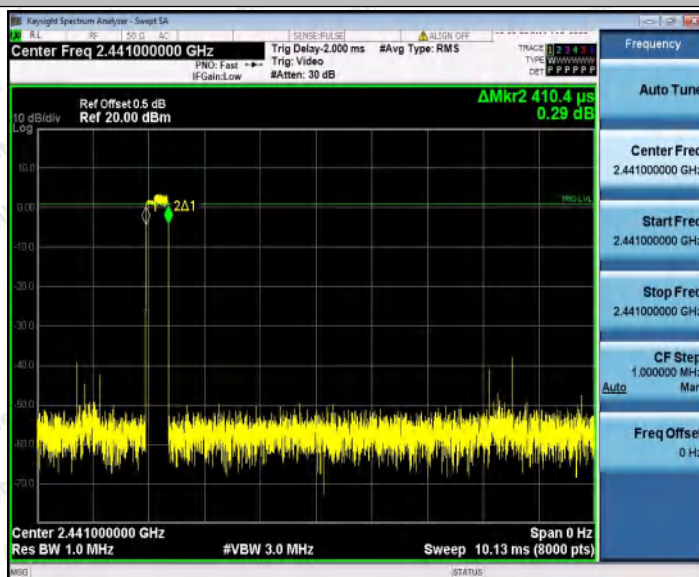
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2DH1_Ant1_Hop



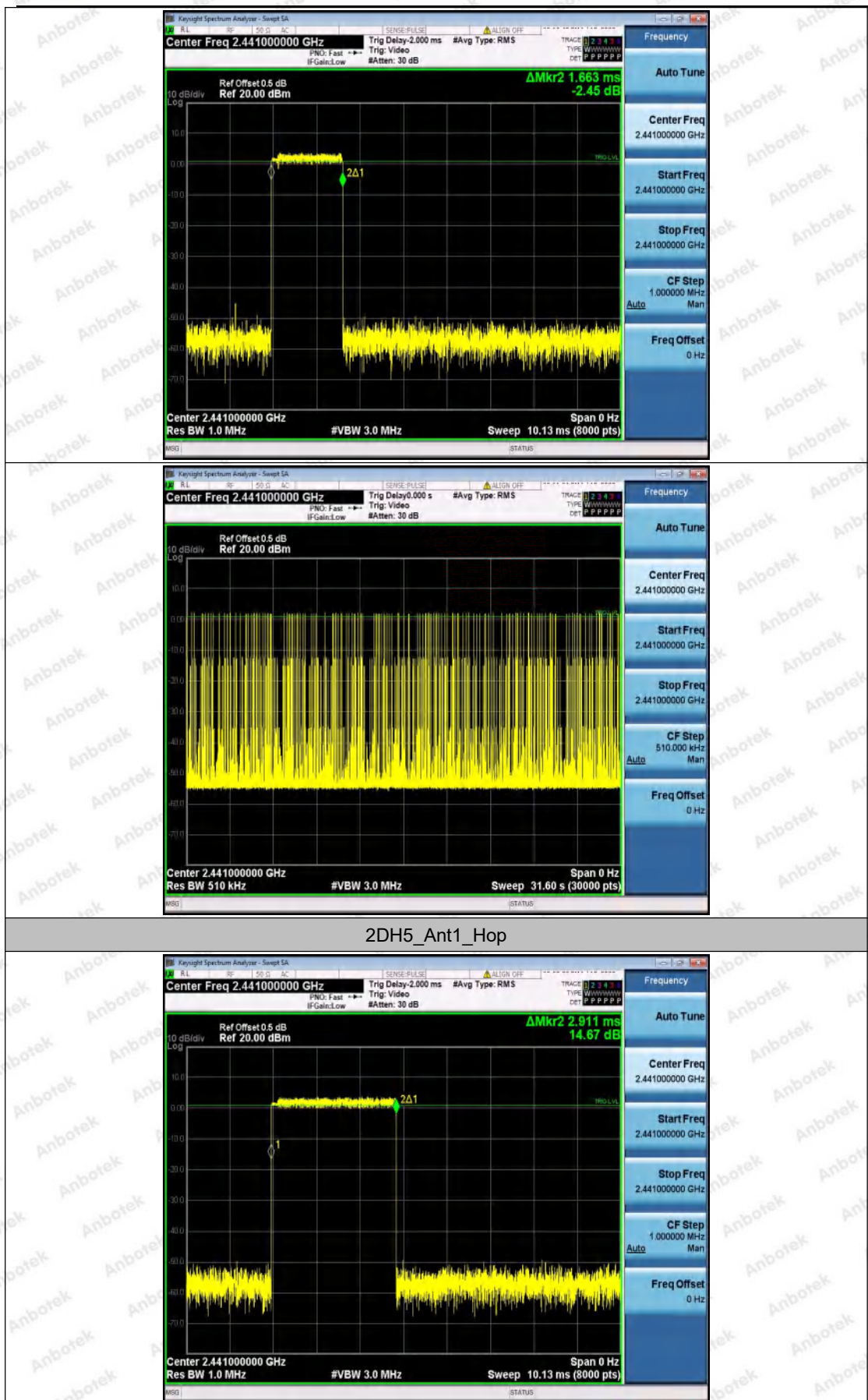
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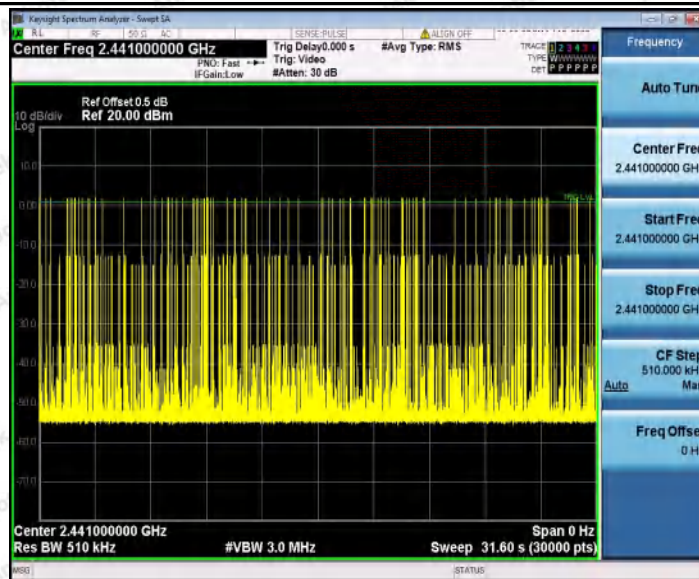


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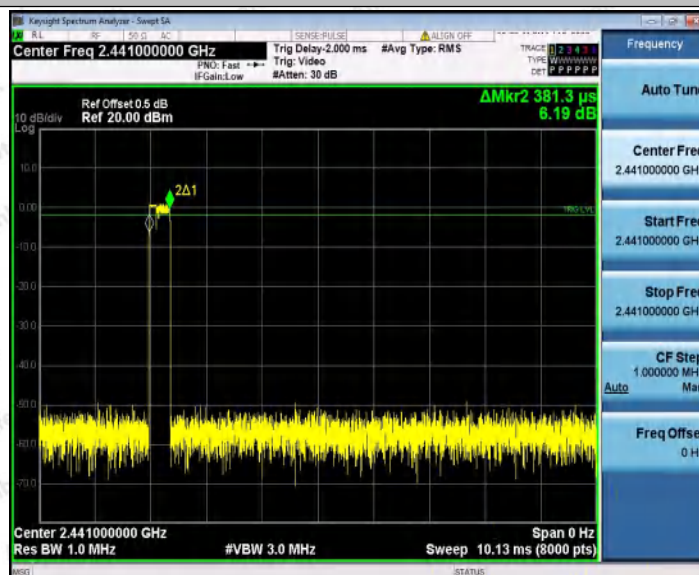
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3DH1_Ant1_Hop



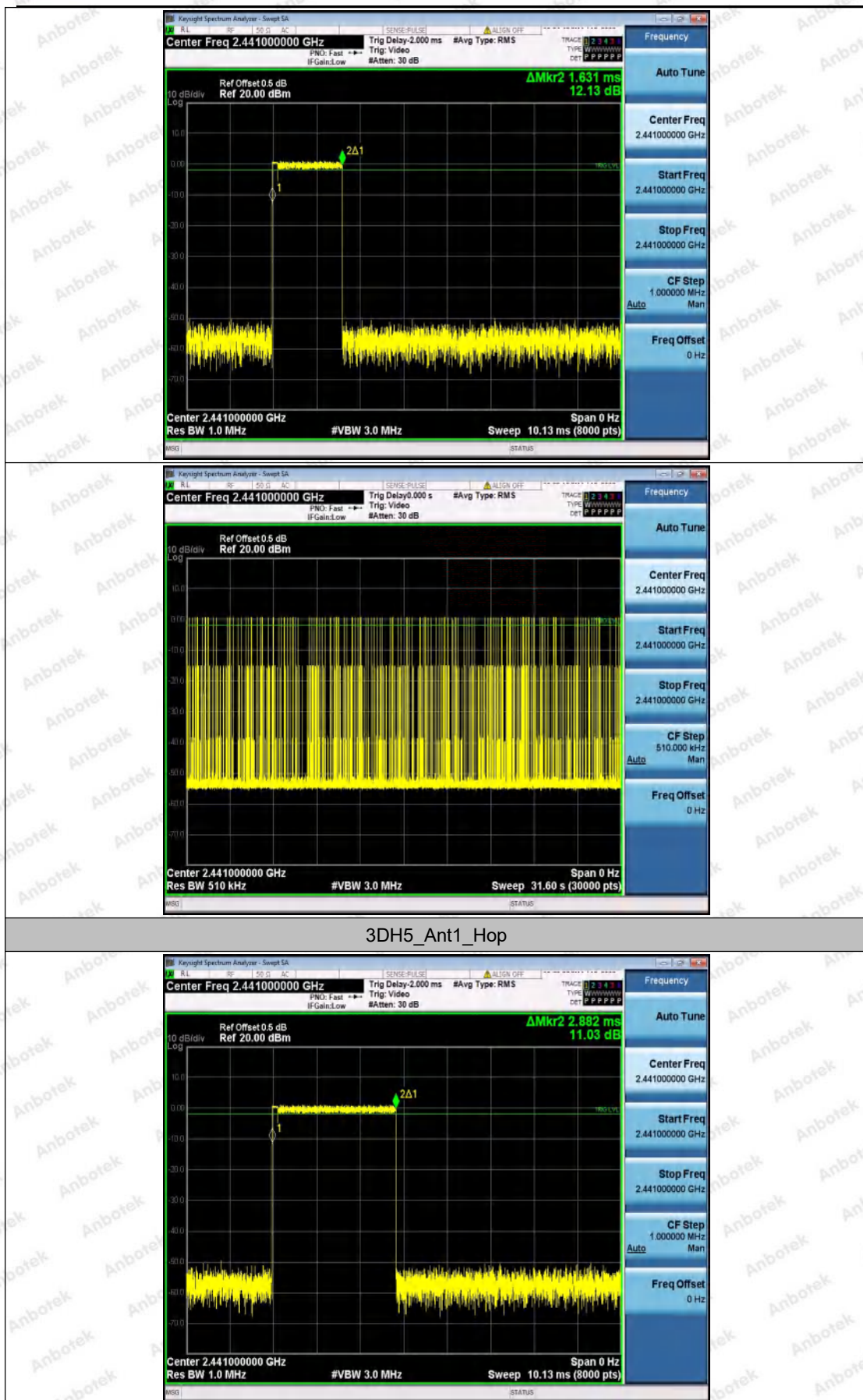
3DH3_Ant1_Hop

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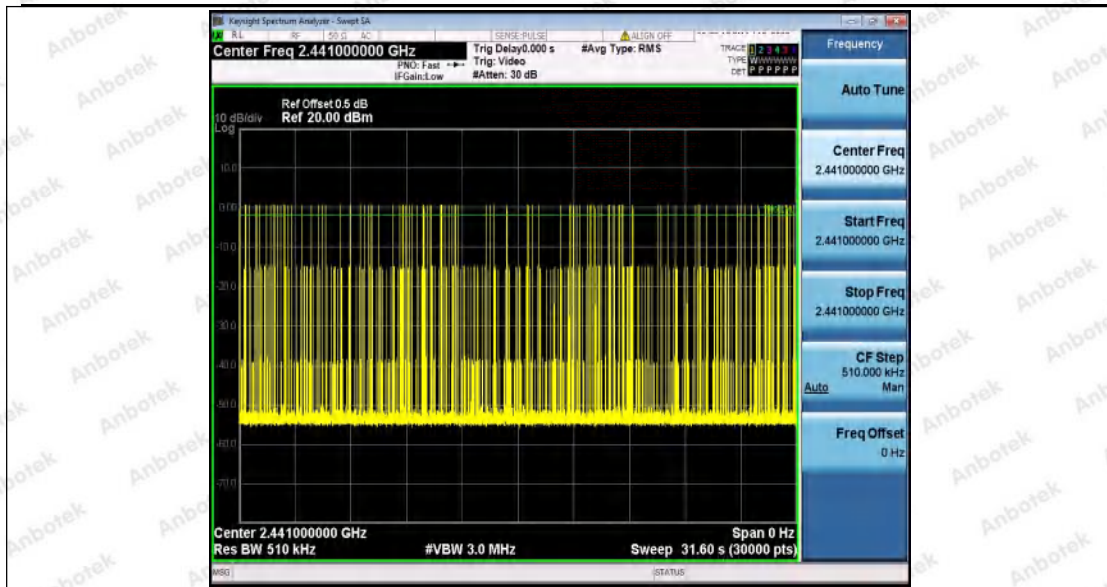


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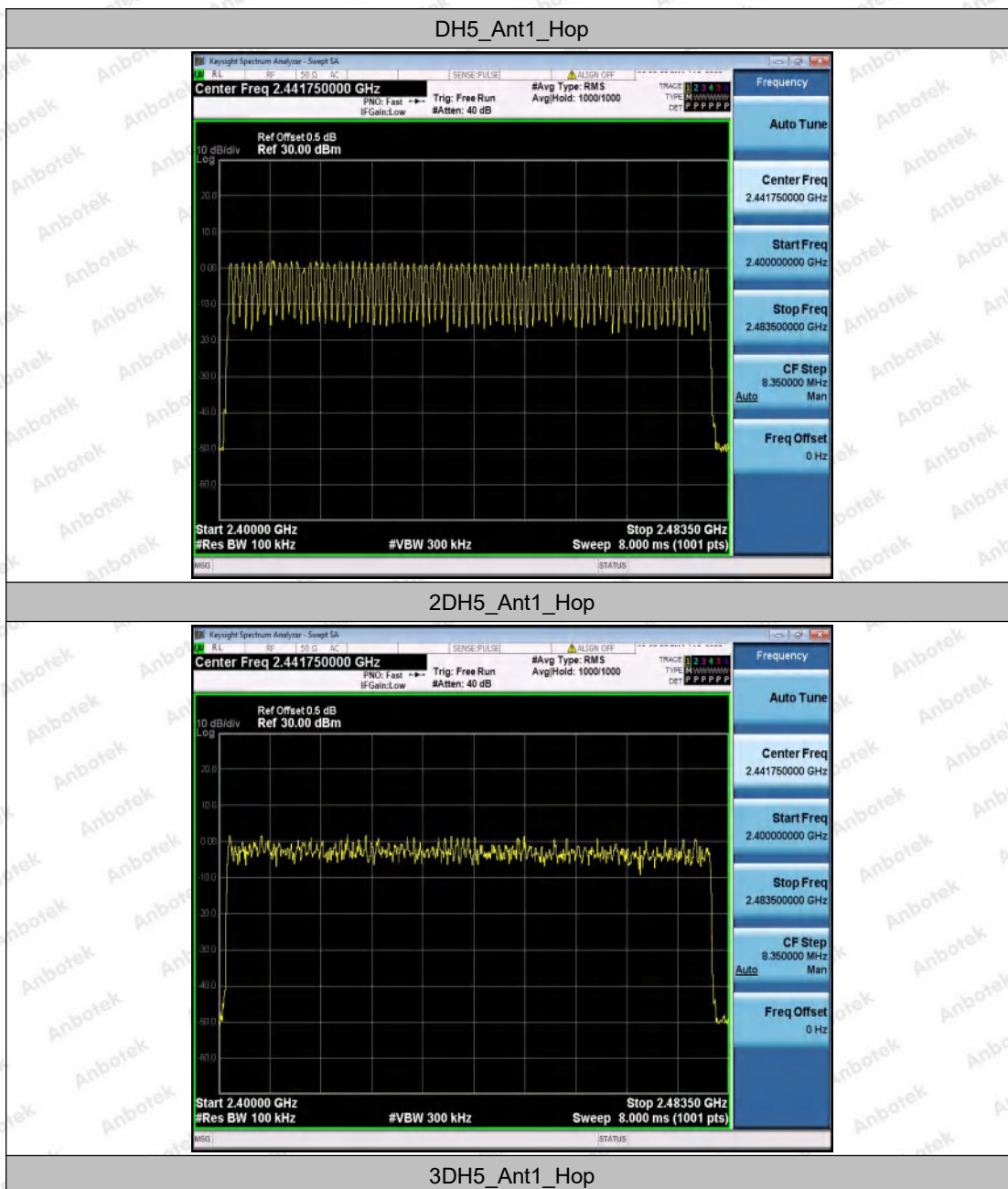
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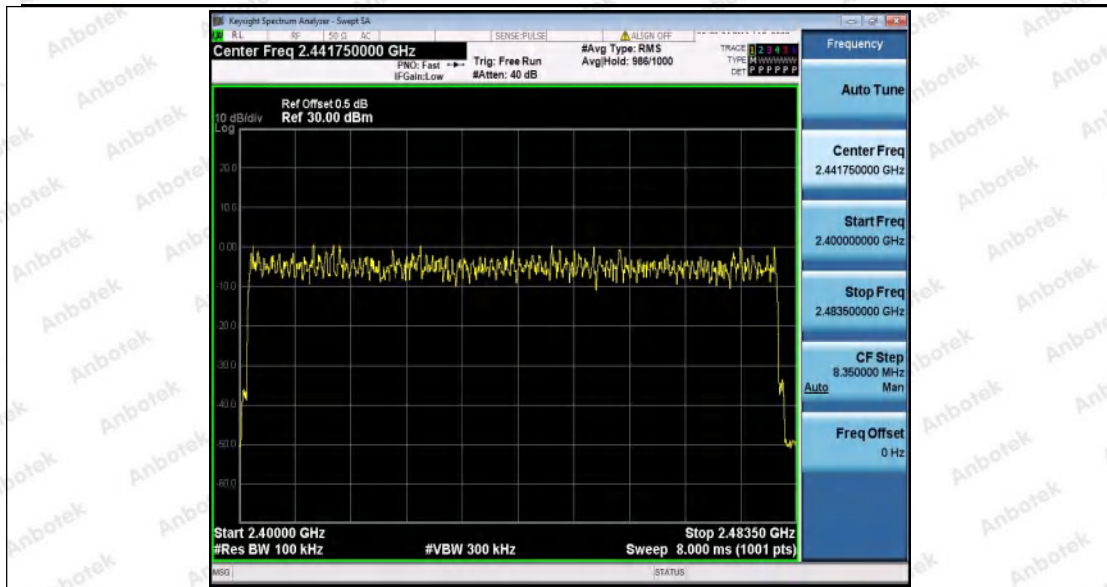
Appendix F: Number of hopping channels

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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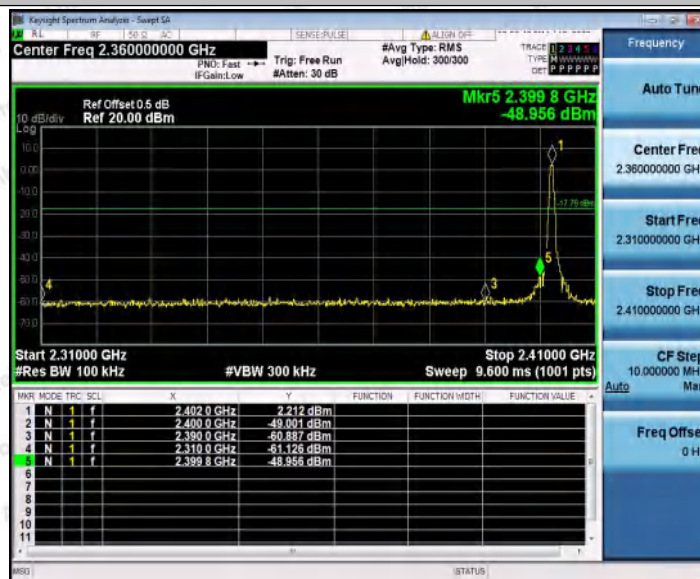
Appendix G: Band edge measurements

Test Result

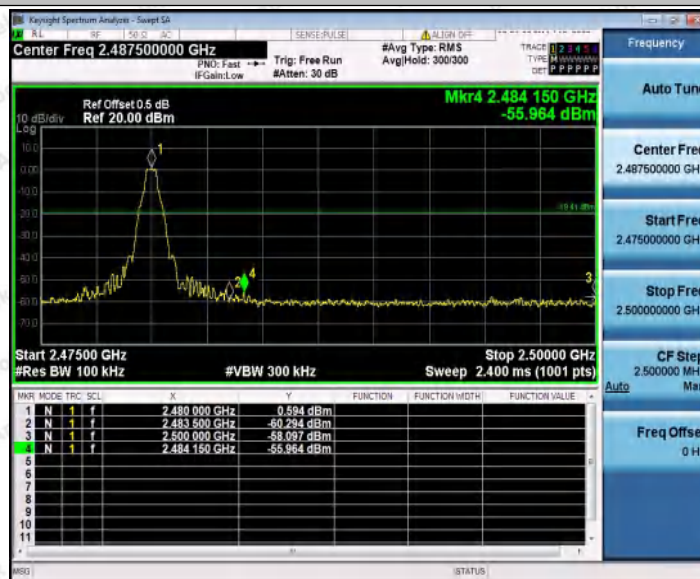
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.21	-48.96	≤-17.79	PASS
		High	2480	0.59	-55.96	≤-19.41	PASS
		Low	Hop	1.96	-58.25	≤-18.05	PASS
		High	Hop	0.45	-60.2	≤-19.55	PASS
2DH5	Ant1	Low	2402	2.01	-49	≤-17.99	PASS
		High	2480	0.28	-56.04	≤-19.72	PASS
		Low	Hop	1.12	-58.44	≤-18.89	PASS
		High	Hop	0.03	-61.5	≤-19.98	PASS
3DH5	Ant1	Low	2402	0.46	-55.56	≤-19.54	PASS
		High	2480	-0.47	-56.86	≤-20.47	PASS
		Low	Hop	-1.78	-50.04	≤-21.78	PASS
		High	Hop	-3.18	-59.84	≤-23.18	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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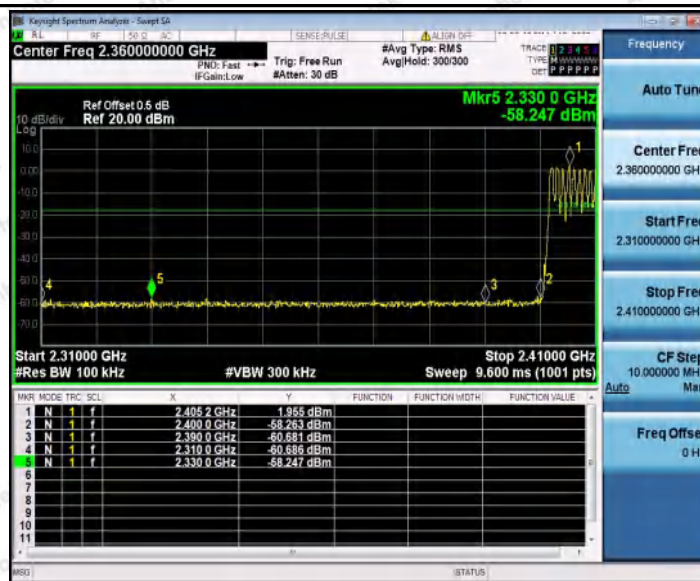
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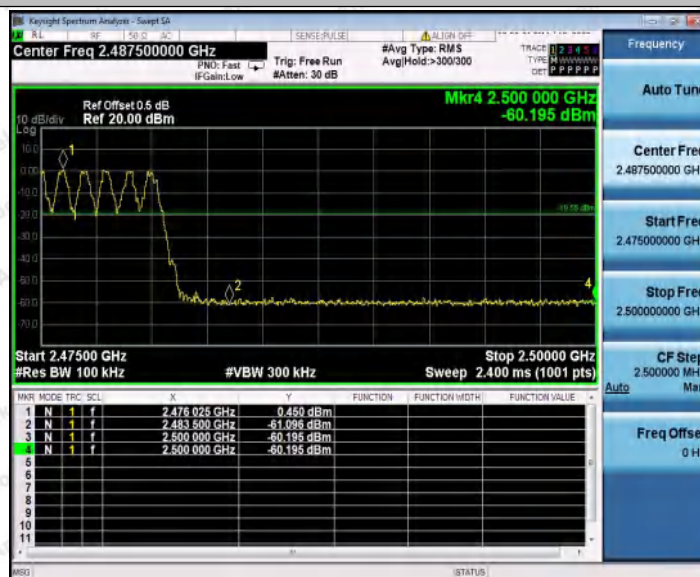
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



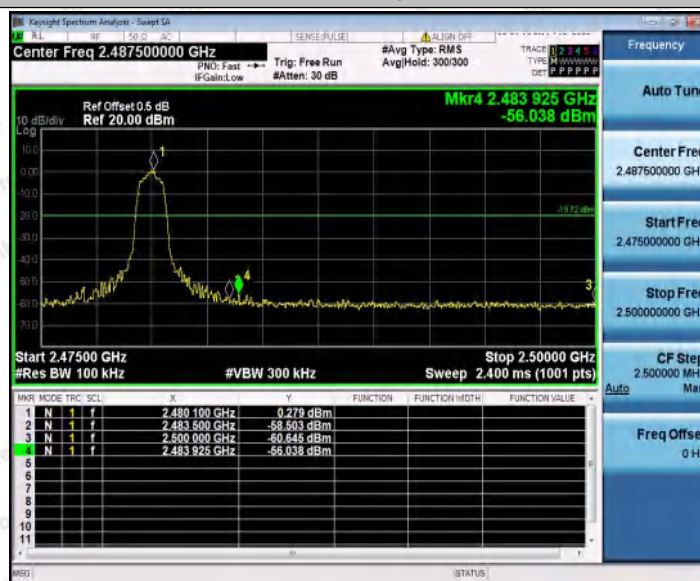
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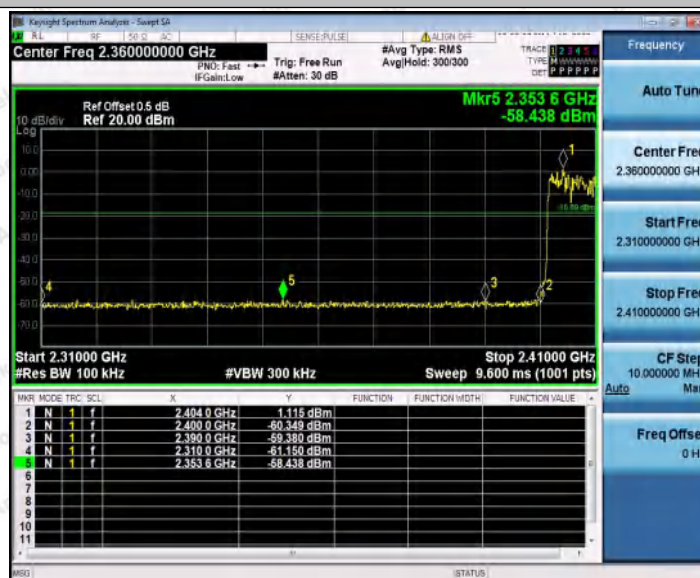
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



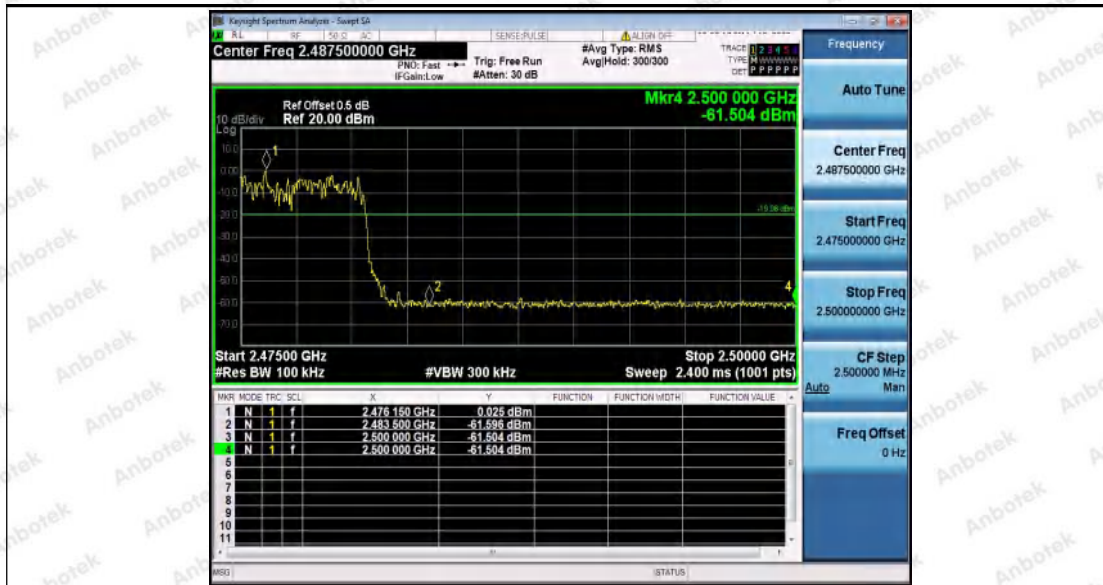
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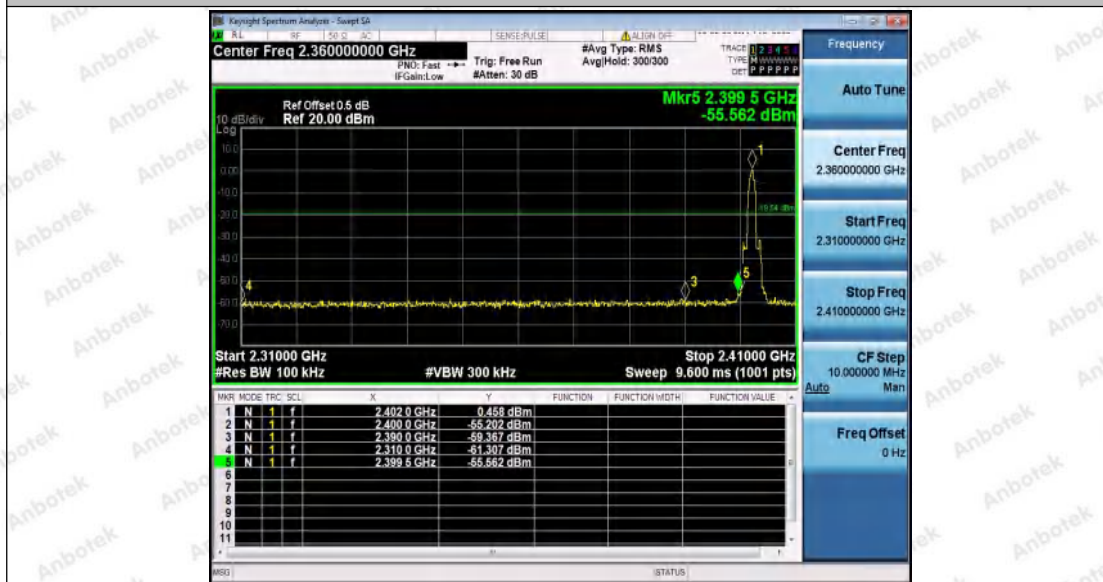
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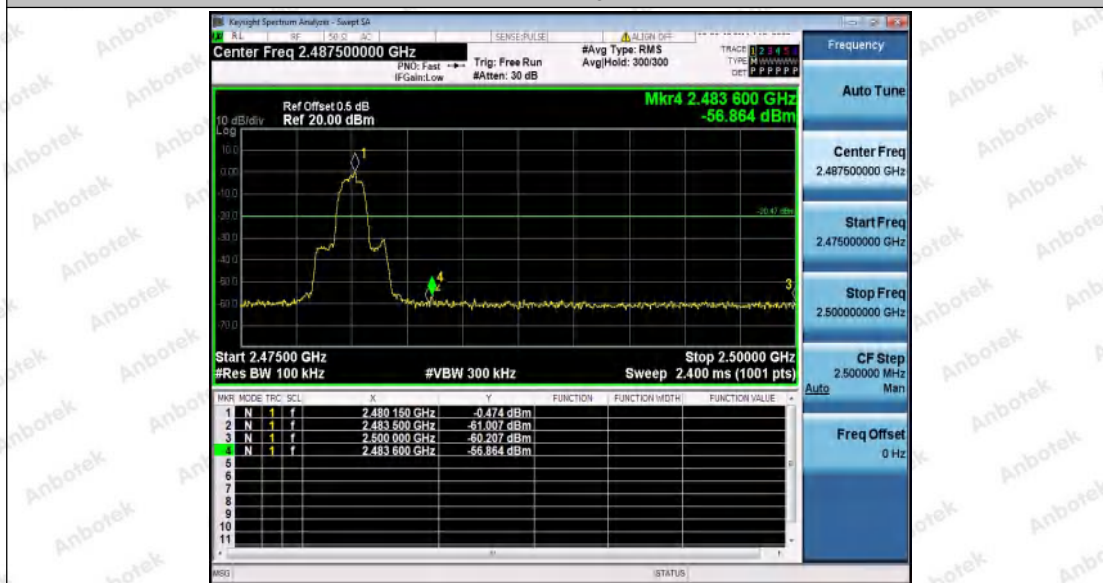
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



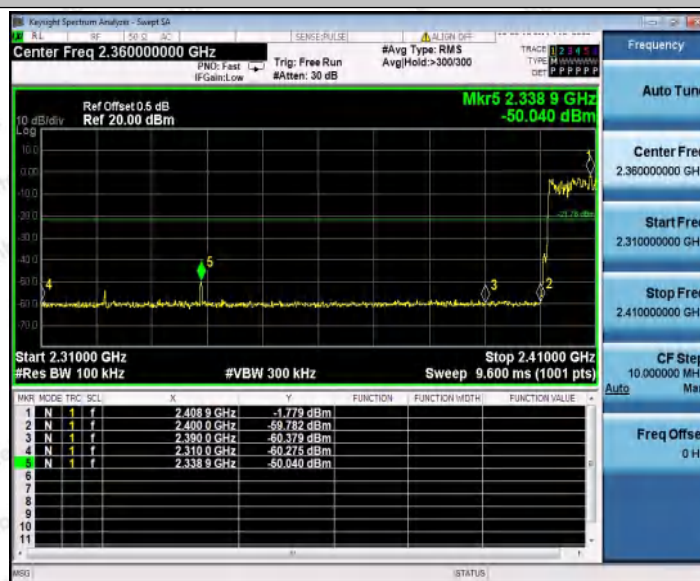
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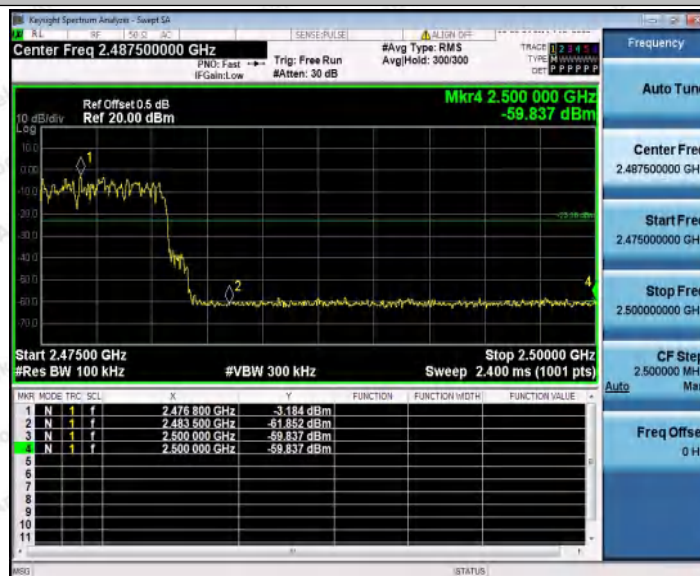
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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Appendix H: Conducted Spurious Emission

Test Result

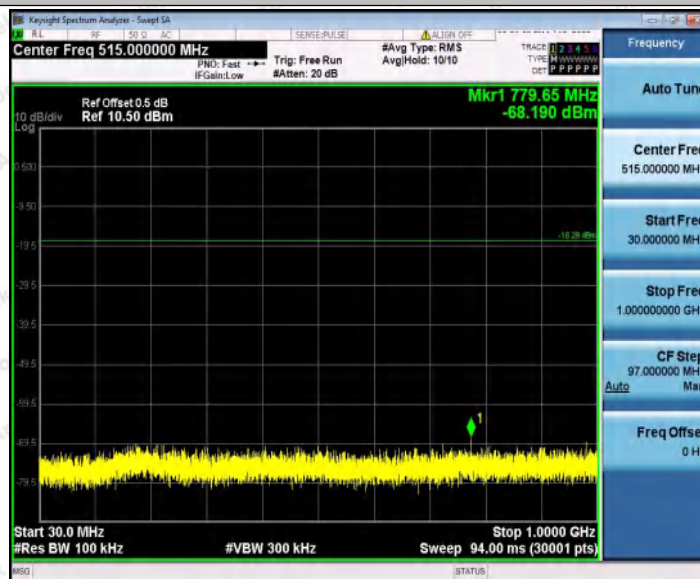
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-68.19	≤-18.29	PASS
			1000~26500	1.71	-54.11	≤-18.29	PASS
		2441	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-68.38	≤-18.71	PASS
			1000~26500	1.29	-53.79	≤-18.71	PASS
		2480	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-69.75	≤-19.02	PASS
			1000~26500	0.98	-53.72	≤-19.02	PASS
2DH5	Ant1	2402	Reference	-0.04	-0.04	---	PASS
			30~1000	-0.04	-68.11	≤-20.04	PASS
			1000~26500	-0.04	-53.71	≤-20.04	PASS
		2441	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-69.44	≤-19.54	PASS
			1000~26500	0.46	-53.48	≤-19.54	PASS
		2480	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-68.94	≤-20.9	PASS
			1000~26500	-0.90	-53.91	≤-20.9	PASS
3DH5	Ant1	2402	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-68.14	≤-19.29	PASS
			1000~26500	0.71	-53.34	≤-19.29	PASS
		2441	Reference	0.54	0.54	---	PASS
			30~1000	0.54	-69.13	≤-19.46	PASS
			1000~26500	0.54	-54.13	≤-19.46	PASS
		2480	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-69.23	≤-20.15	PASS
			1000~26500	-0.15	-53.57	≤-20.15	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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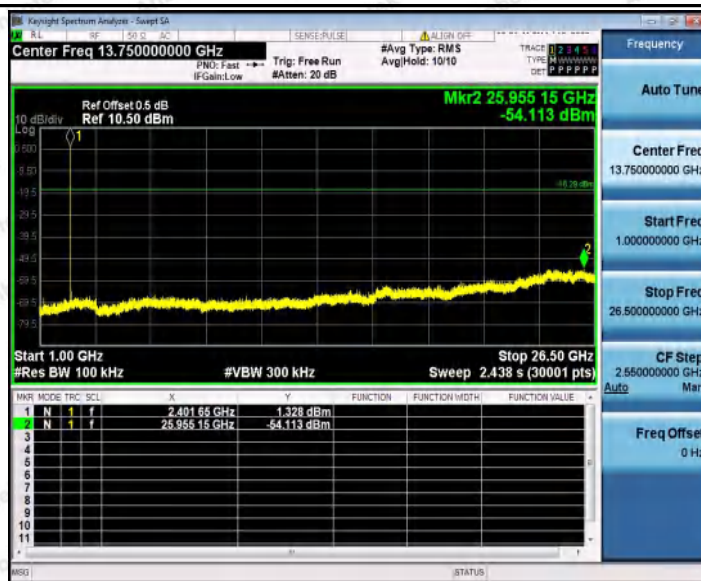
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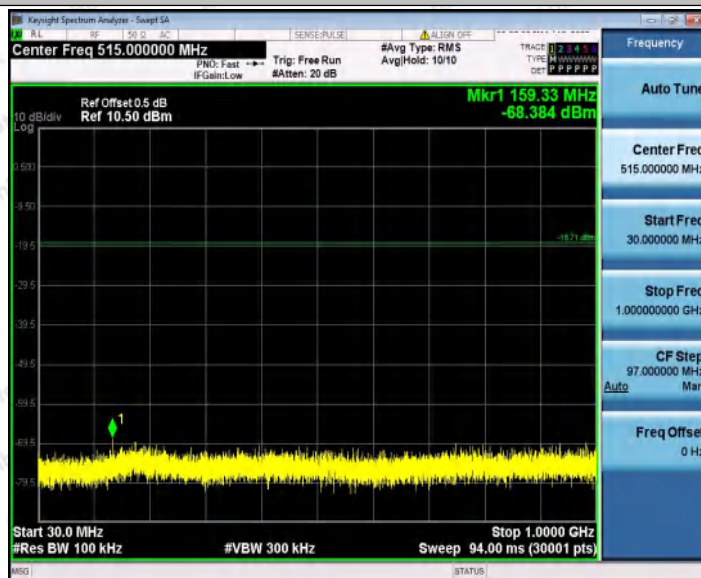
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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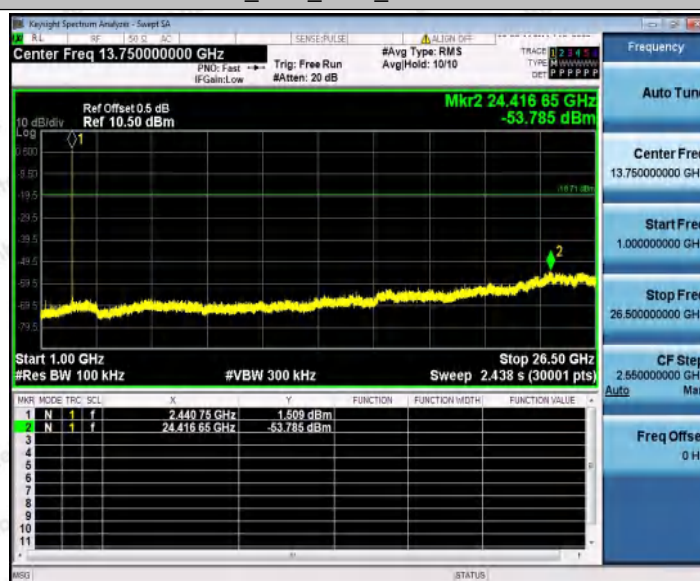


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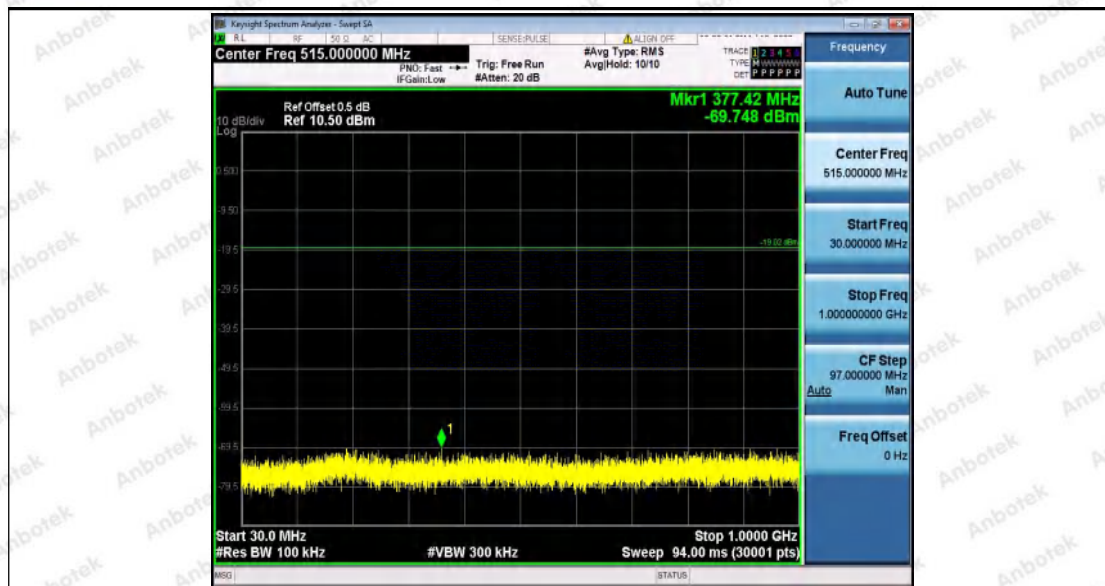
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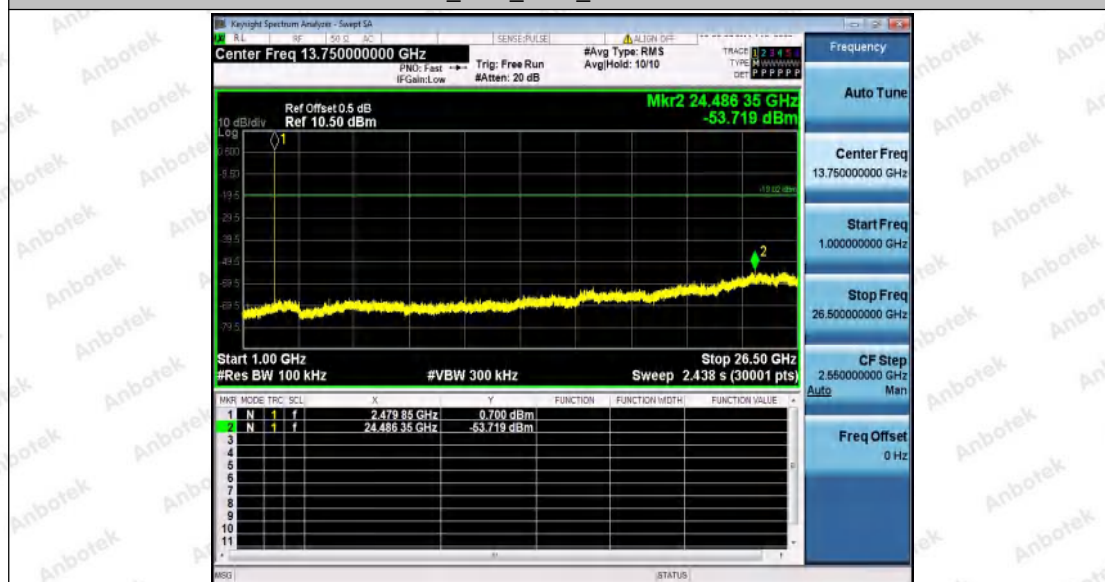
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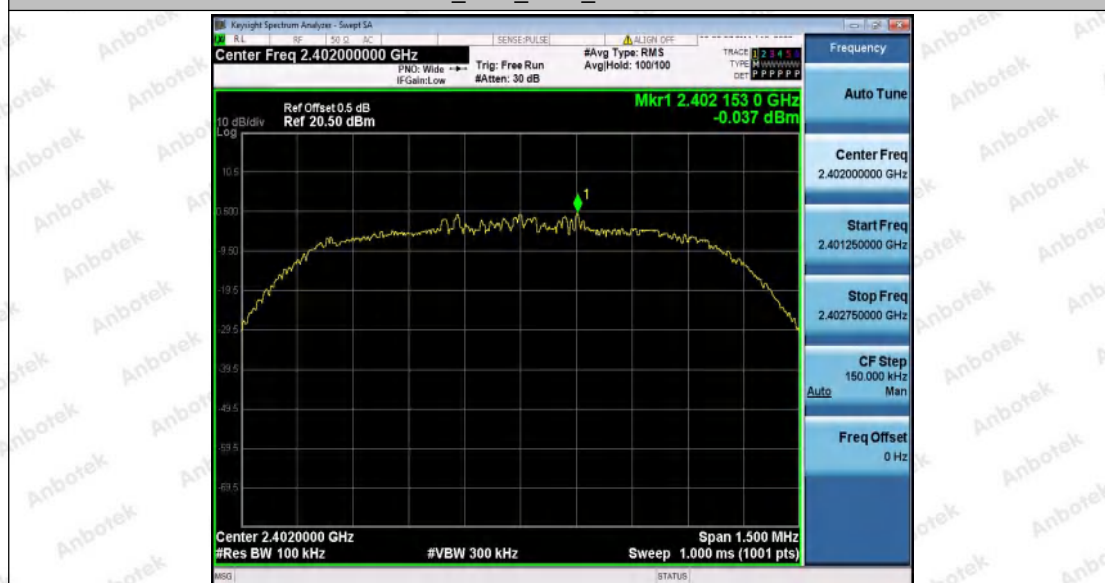
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DH5_Ant1_2480_1000~26500



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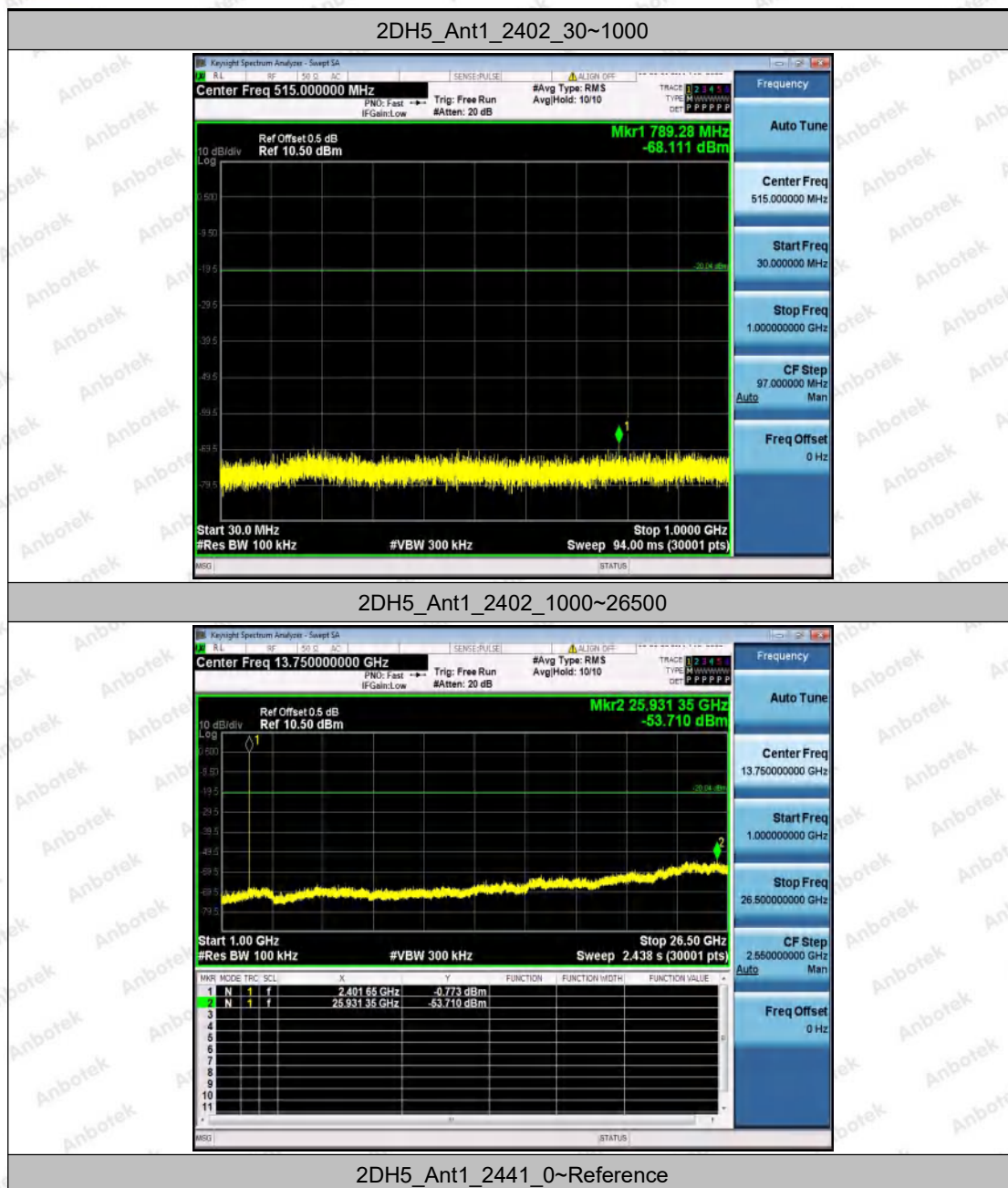


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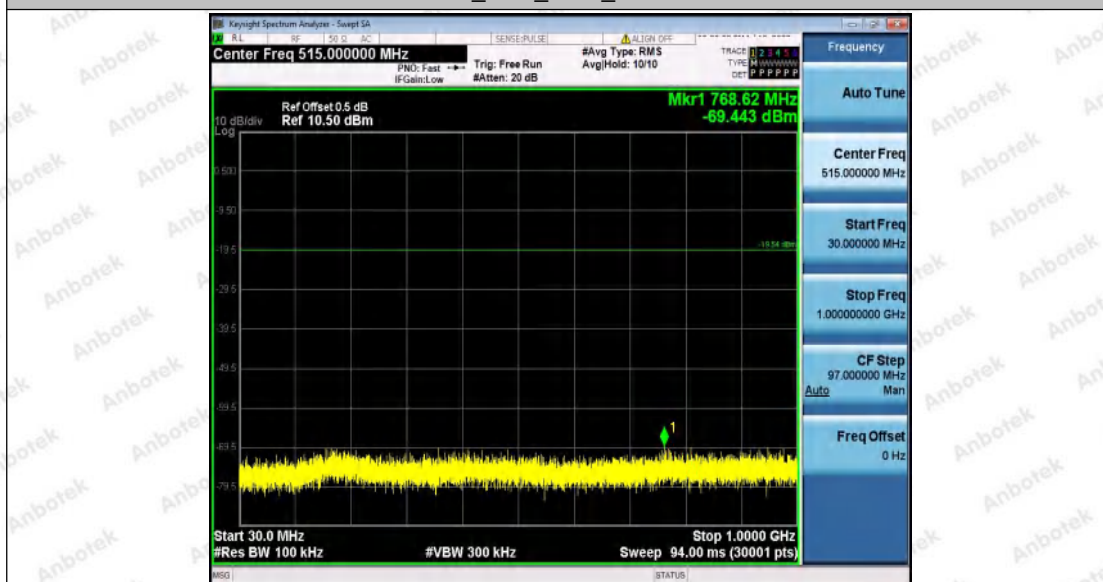
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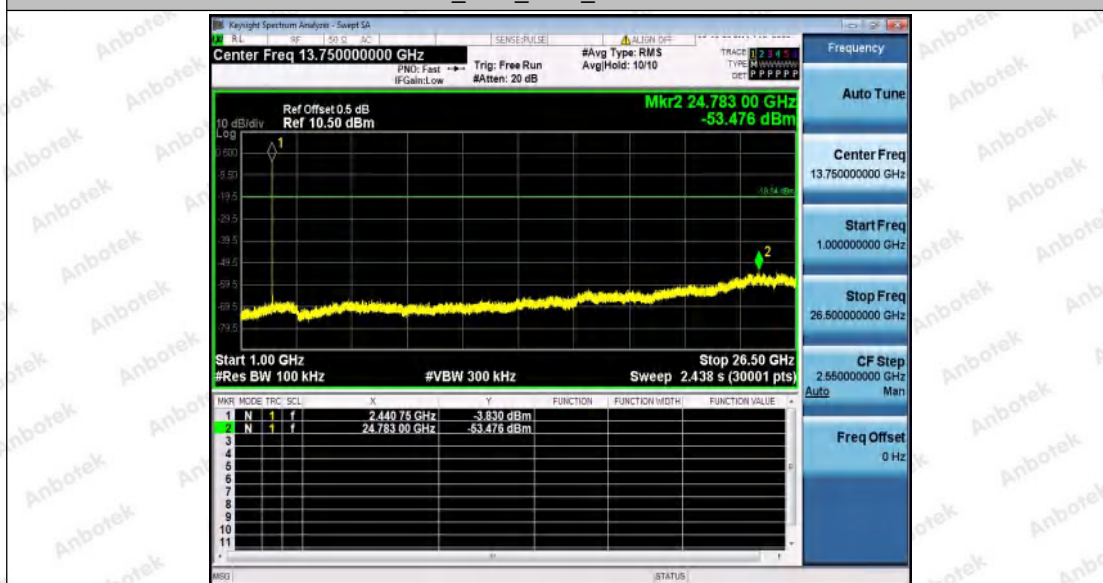
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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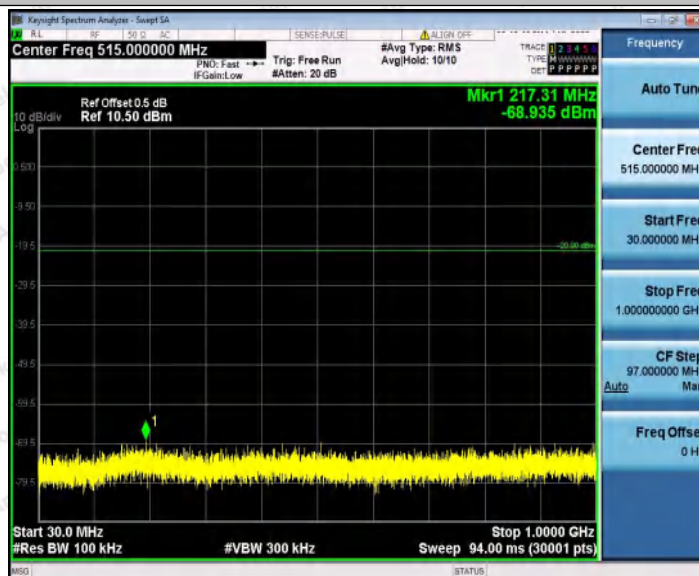
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



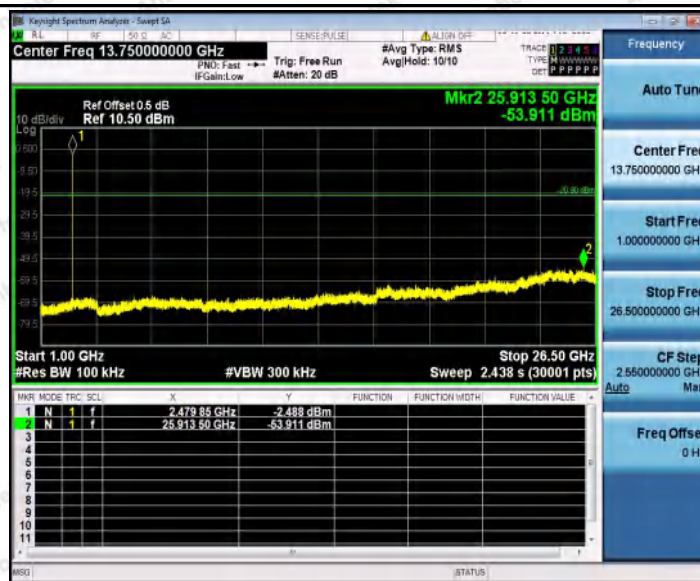
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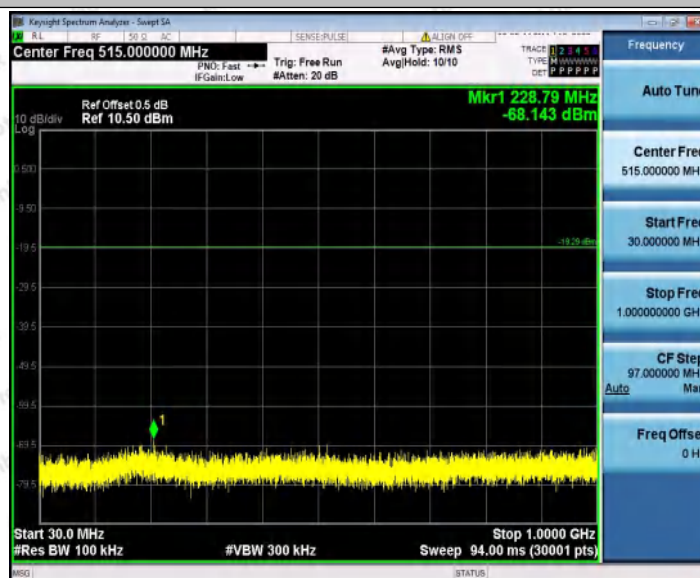
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



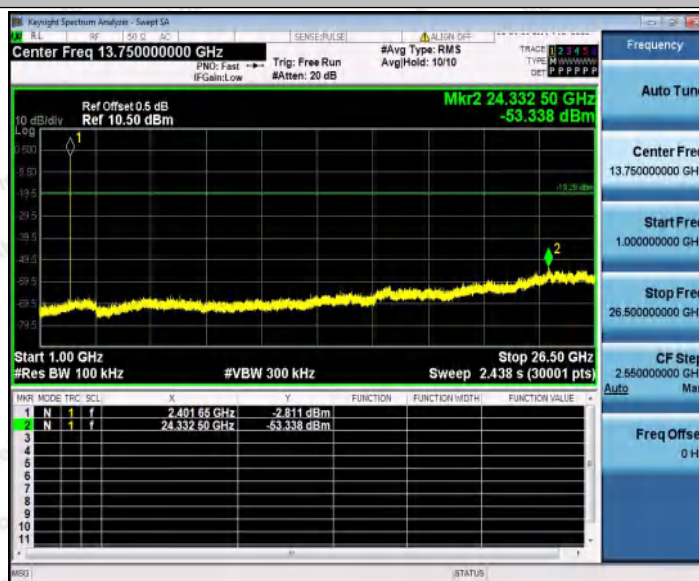
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



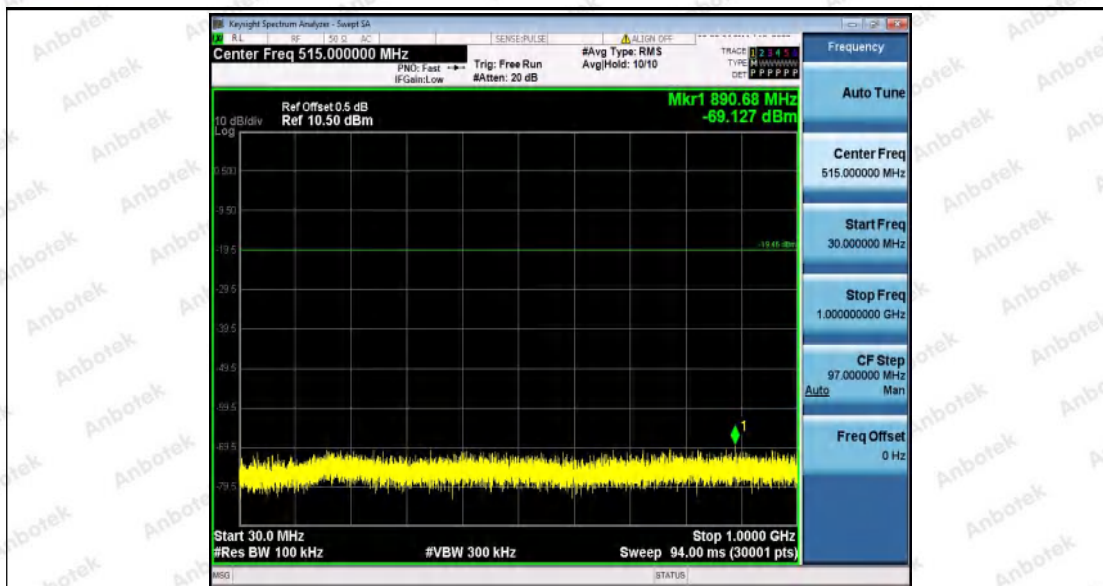
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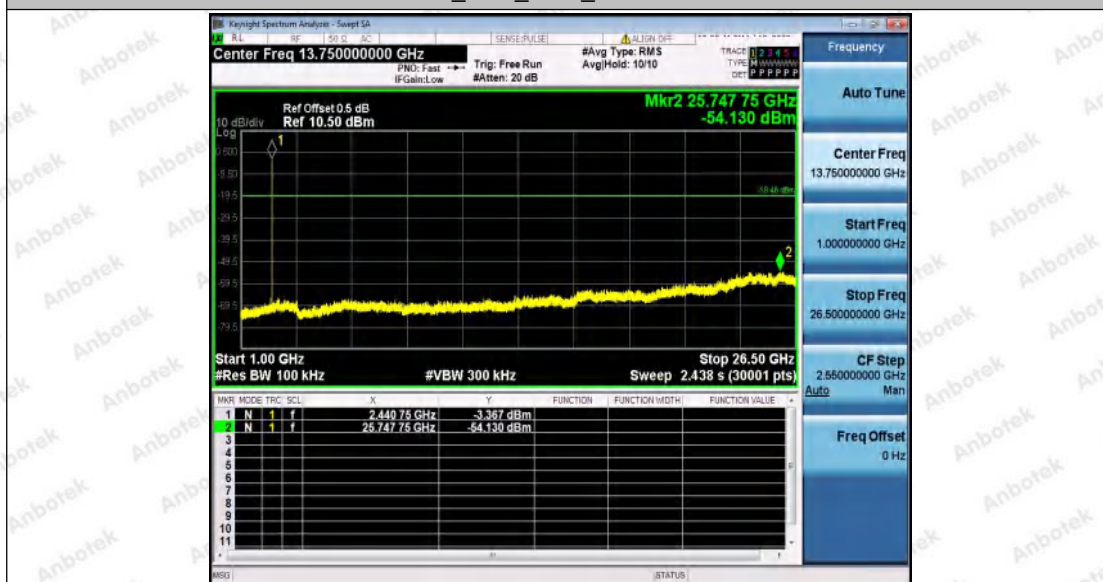
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

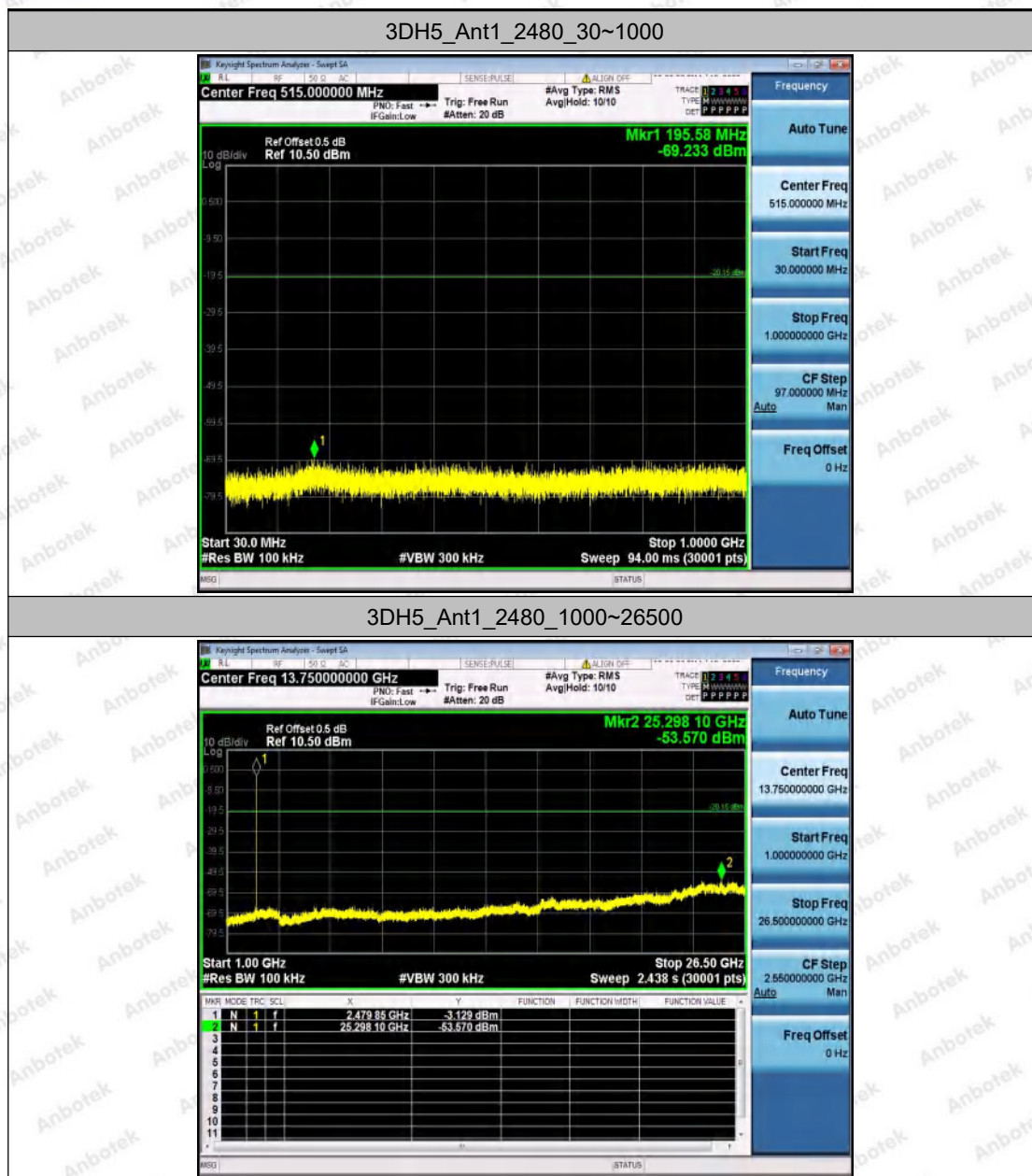


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Appendix I: Duty Cycle

Test Result

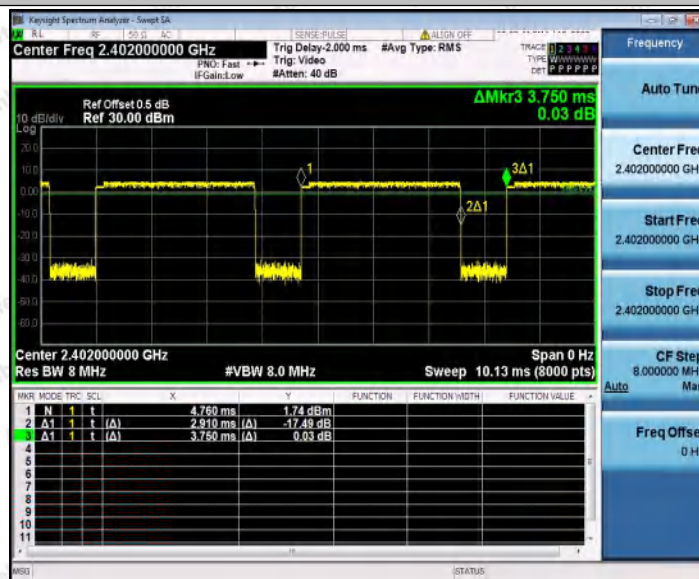
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	0.773 3	77.33	1.12	---	PASS
2DH5	Ant1	2402	2.91	3.75	0.776 0	77.60	1.10	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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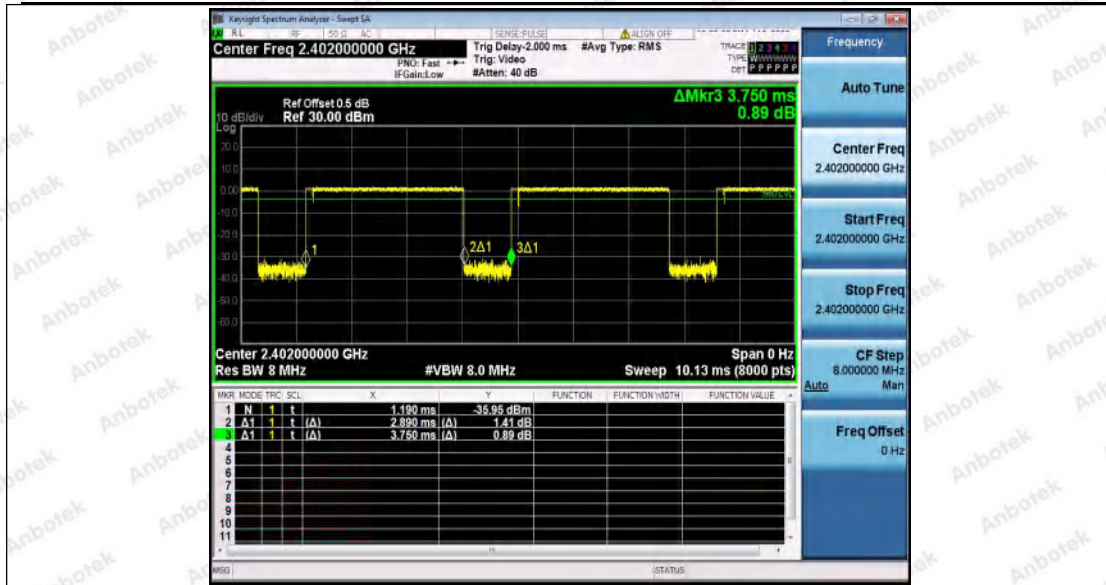
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