

Appendix Test Data

Report No.:	18220WC20212001	Test Sample No.:	1-2-2
Start Test Date:	2022.9.7	Finish Test Date:	2022.9.13
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.960	2401.532	2402.492
		2441	0.945	2440.538	2441.483
		2480	0.948	2479.538	2480.486
2DH5	Ant1	2402	1.323	2401.334	2402.657
		2441	1.314	2440.343	2441.657
		2480	1.317	2479.337	2480.654



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

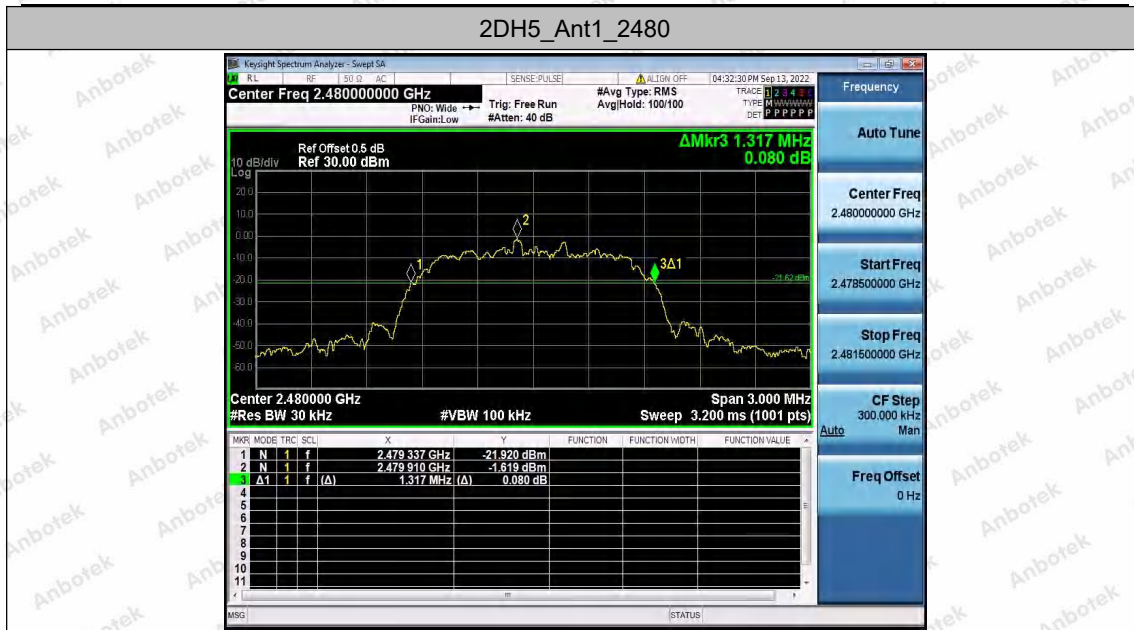


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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.85534	2401.5679	2402.4233
		2441	0.84711	2440.5735	2441.4206
		2480	0.85515	2479.5689	2480.4240
2DH5	Ant1	2402	1.1749	2401.4082	2402.5831
		2441	1.1759	2440.4080	2441.5839
		2480	1.1858	2479.4037	2480.5895

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Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



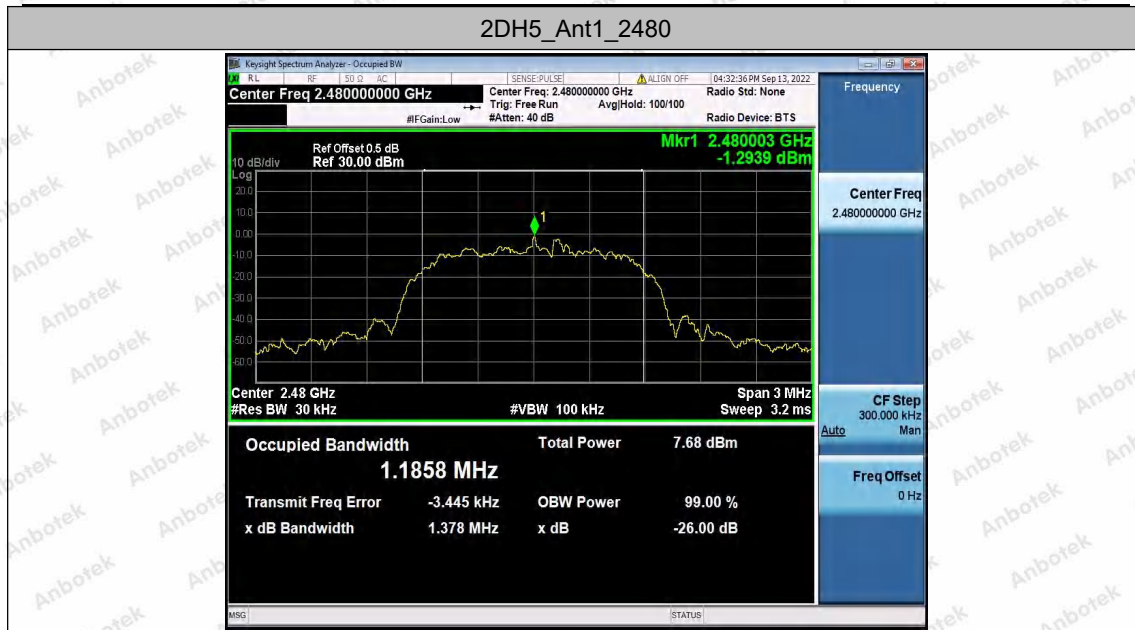
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.28	≤20.97	PASS
		2441	1.39	≤20.97	PASS
		2480	1.01	≤20.97	PASS
2DH5	Ant1	2402	3.54	≤20.97	PASS
		2441	3.71	≤20.97	PASS
		2480	3.25	≤20.97	PASS



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



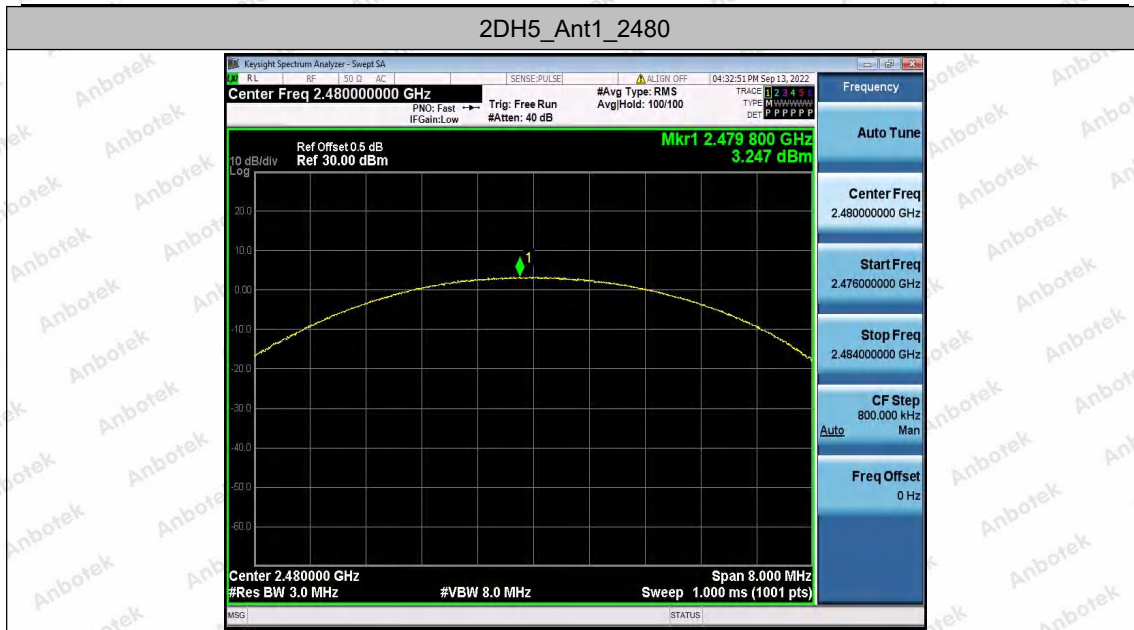
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.014	≥0.960	PASS
2DH5	Ant1	Hop	1.172	≥0.882	PASS

Test Graphs



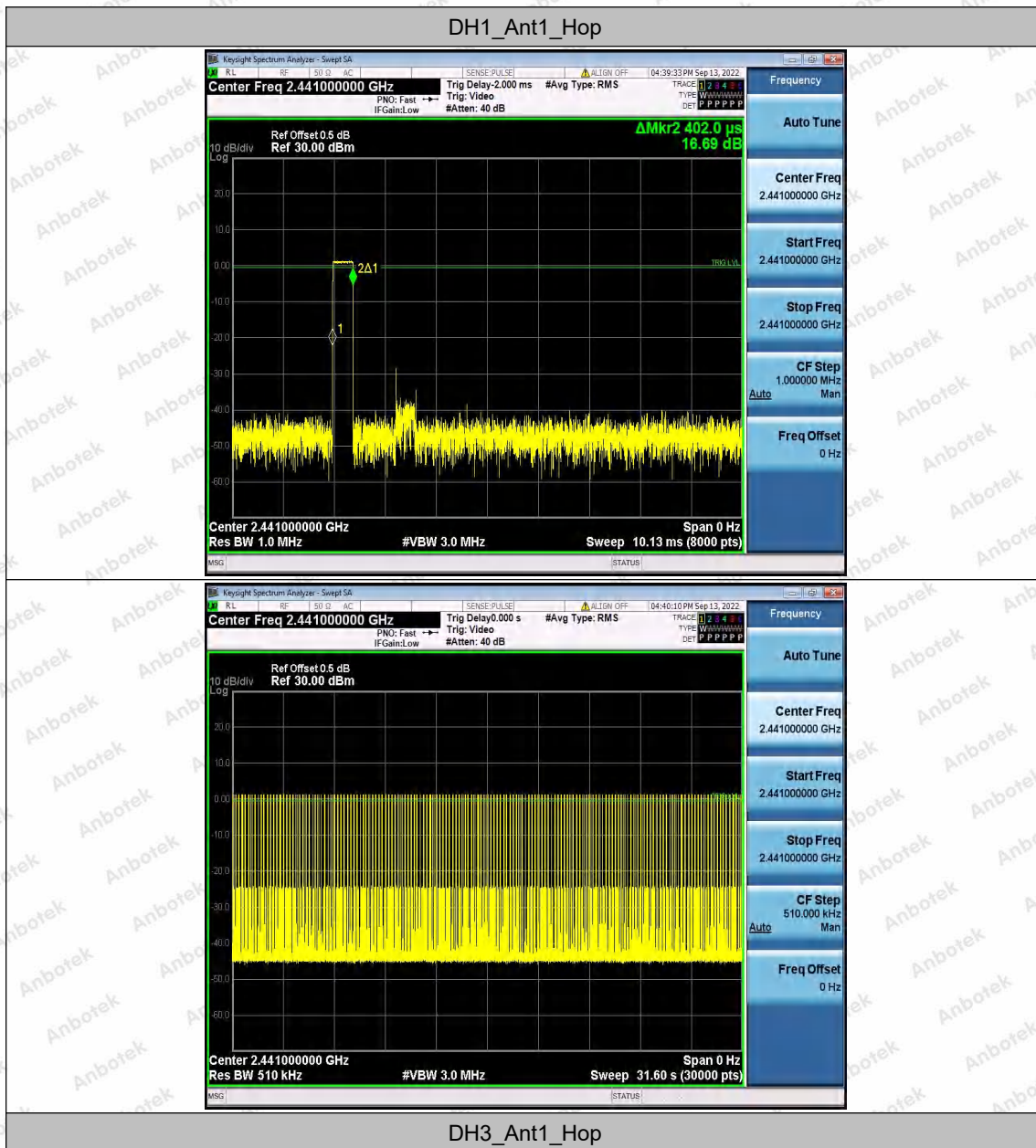
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.402	319	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.657	155	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.904	108	0.314	≤0.4	PASS
2DH1	Ant1	Hop	0.412	319	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.662	171	0.284	≤0.4	PASS
2DH5	Ant1	Hop	2.911	109	0.317	≤0.4	PASS



Test Graphs



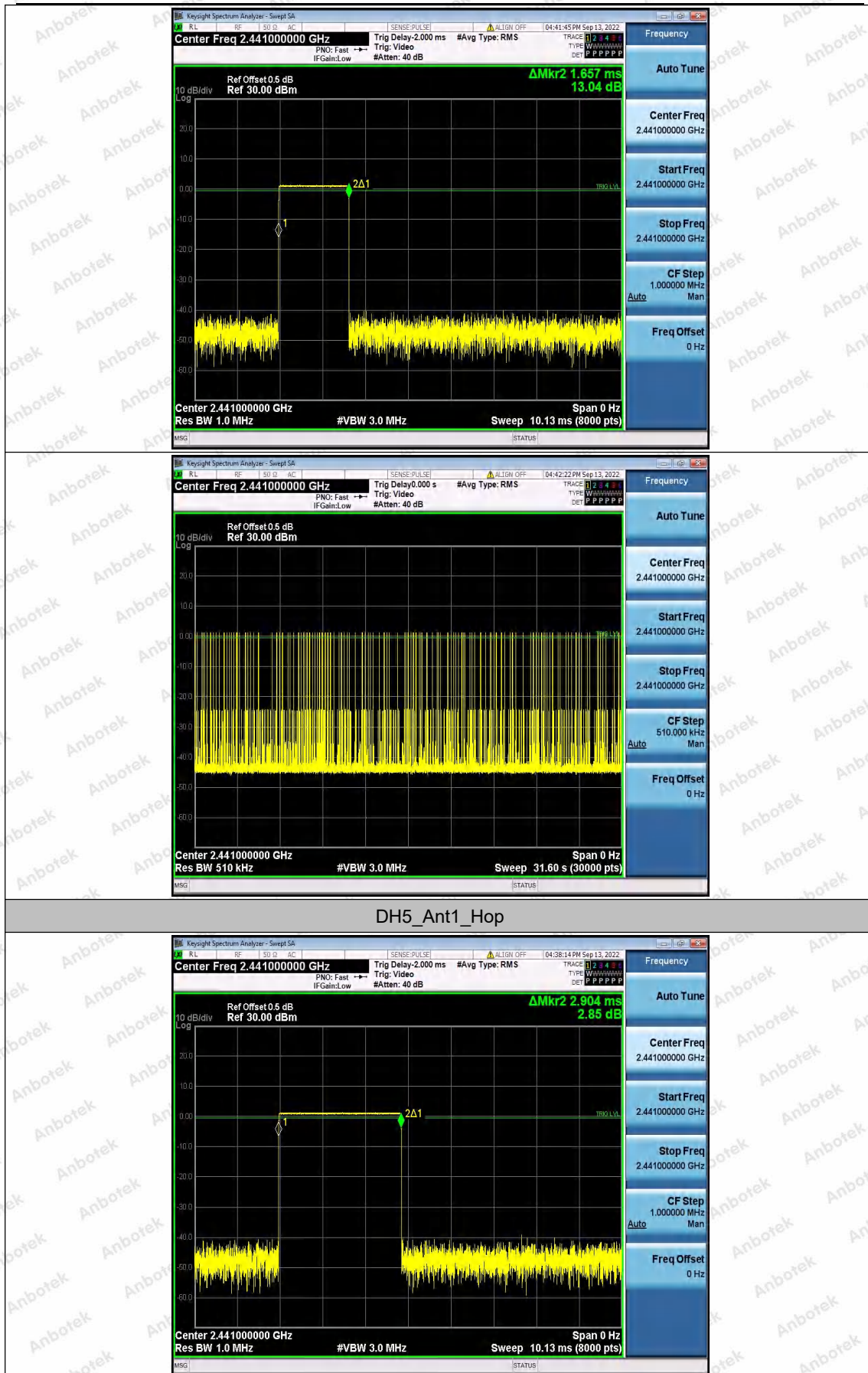
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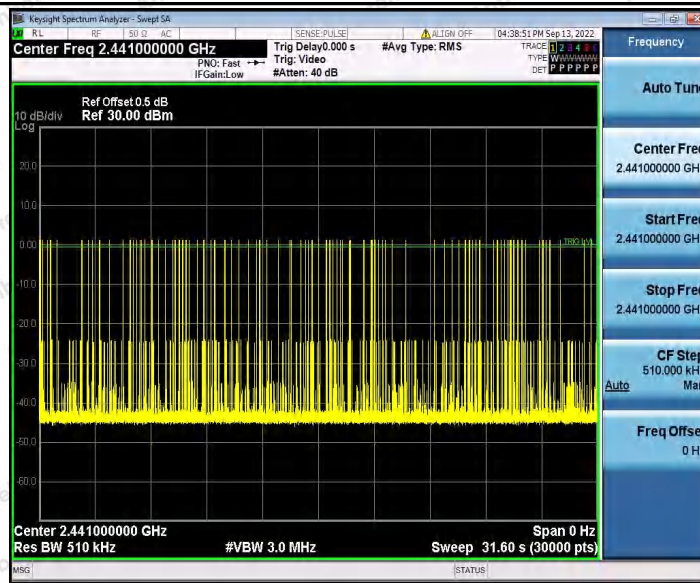
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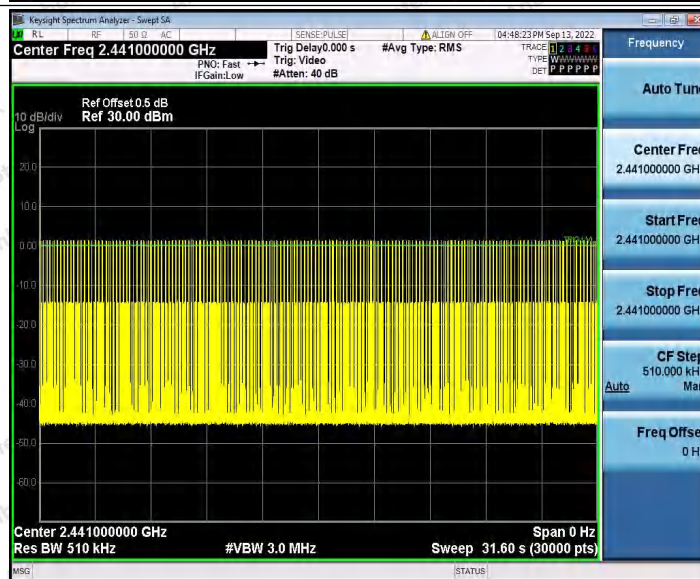
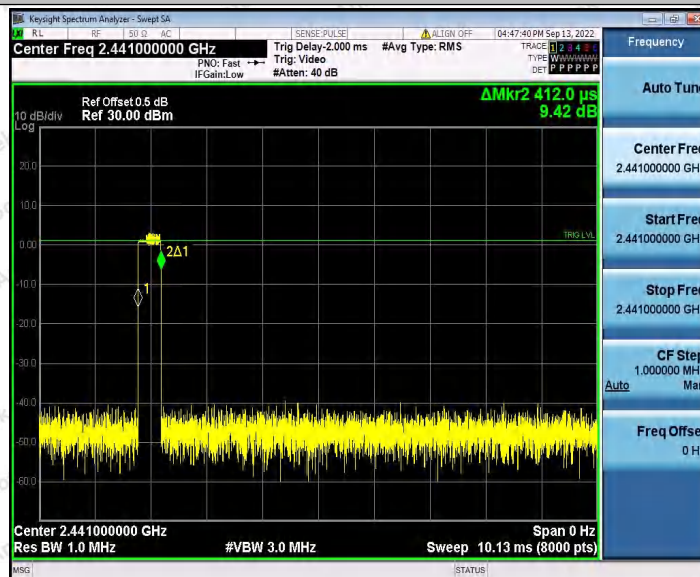


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

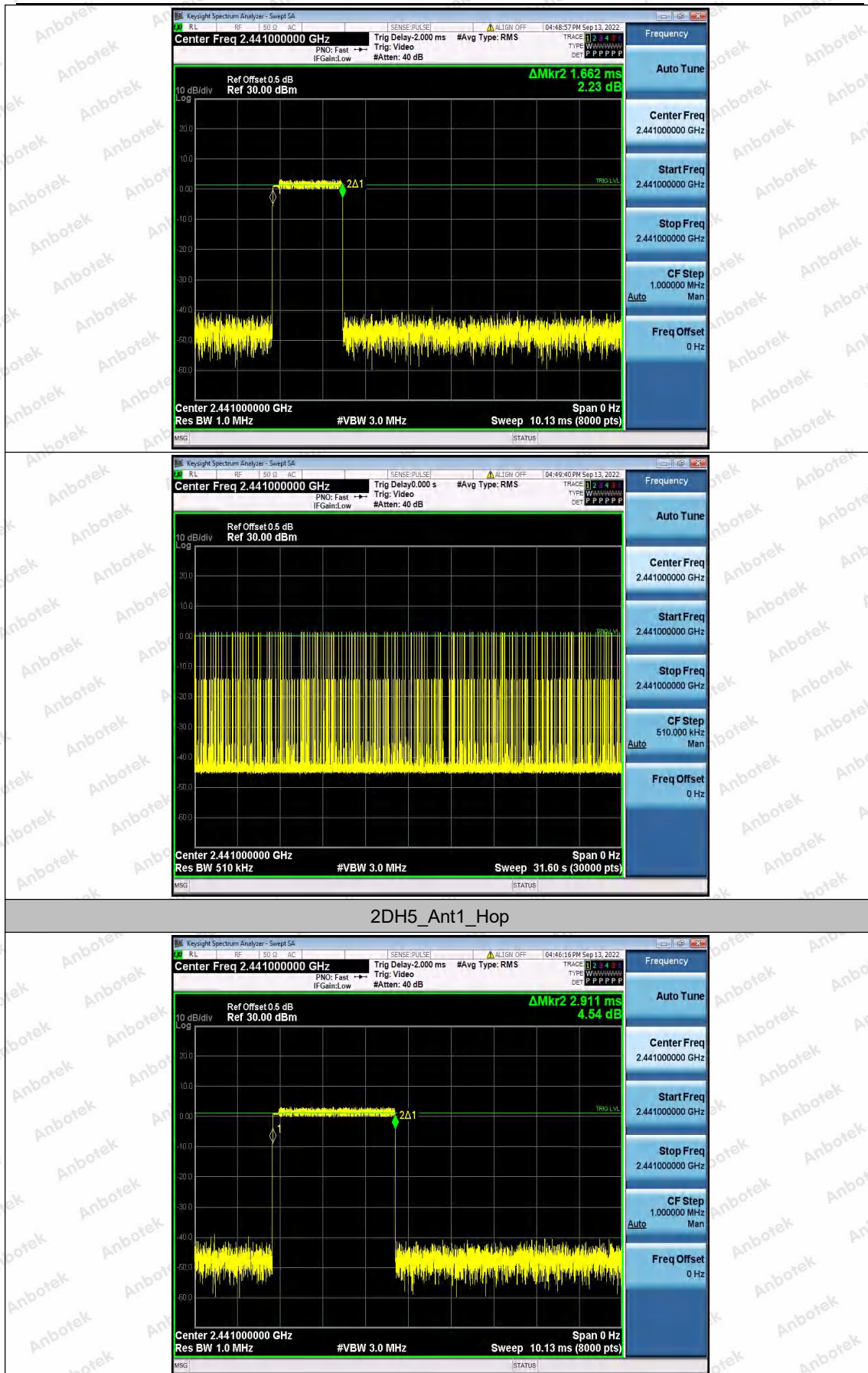
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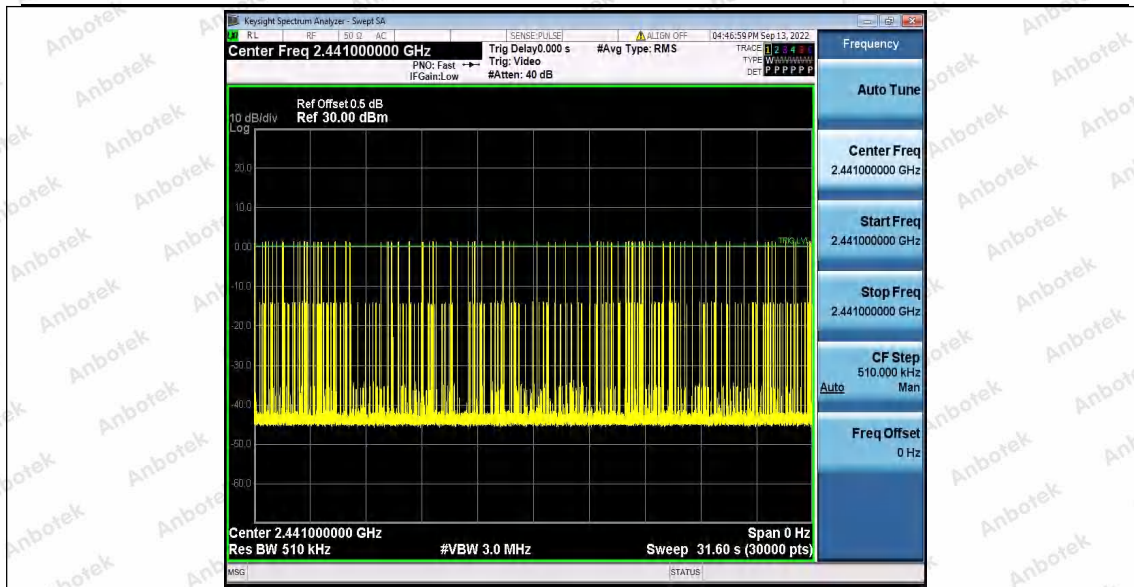


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Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



Appendix G: Band edge measurements

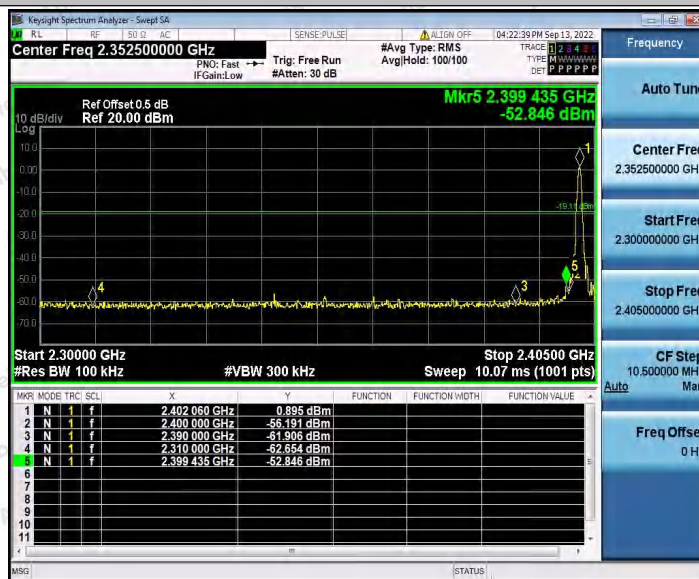
Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.90	-52.85	≤-19.11	PASS
		High	2480	0.74	-54.61	≤-19.26	PASS
		Low	Hop_2402	-0.02	-55.62	≤-20.02	PASS
		High	Hop_2480	0.77	-44.55	≤-19.23	PASS
2DH5	Ant1	Low	2402	0.58	-50.79	≤-19.42	PASS
		High	2480	-0.06	-56.96	≤-20.06	PASS
		Low	Hop_2402	-1.78	-55.64	≤-21.78	PASS
		High	Hop_2480	0.77	-44.45	≤-19.23	PASS

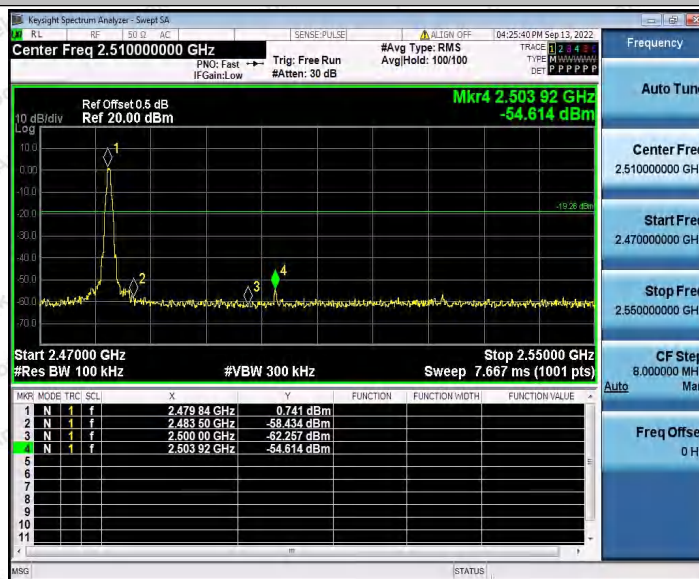


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

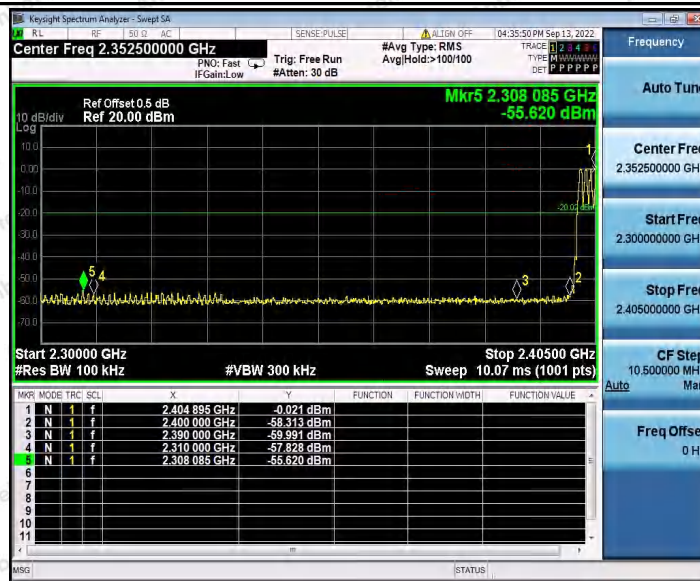
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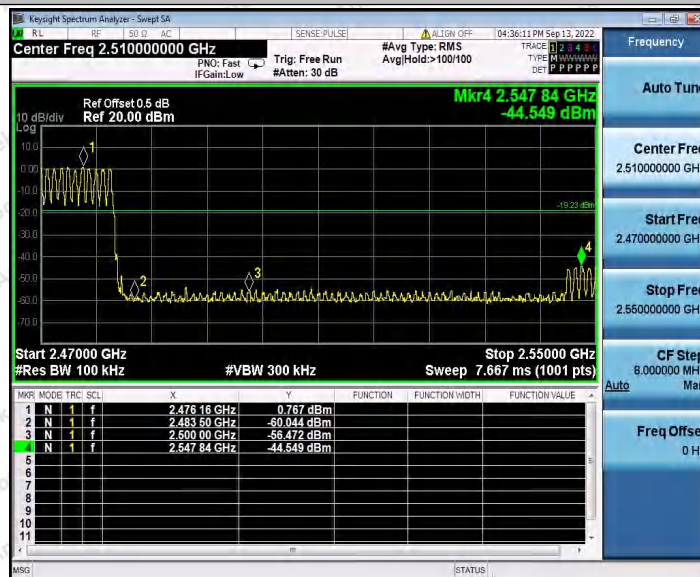


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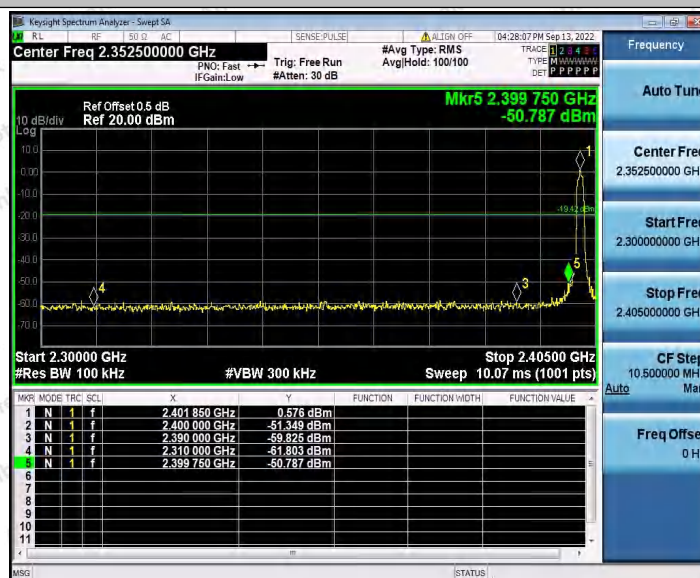




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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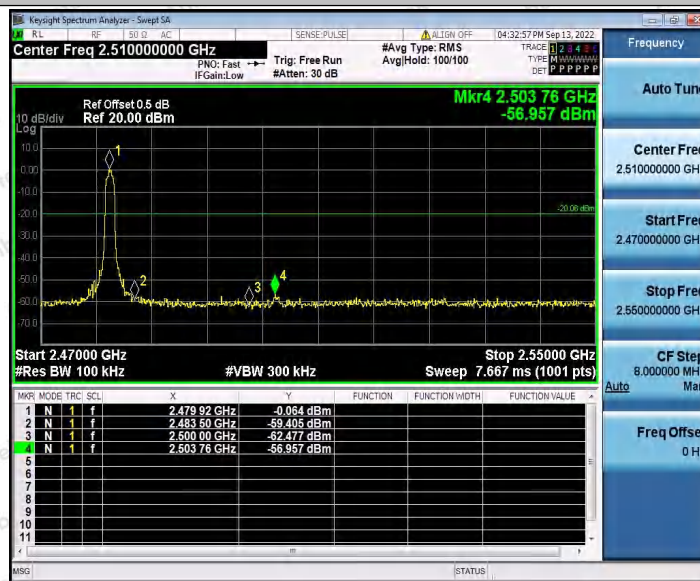
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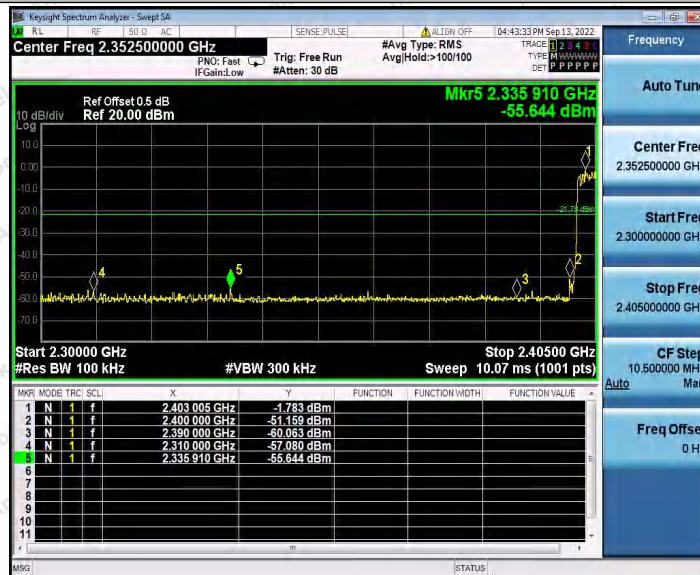
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

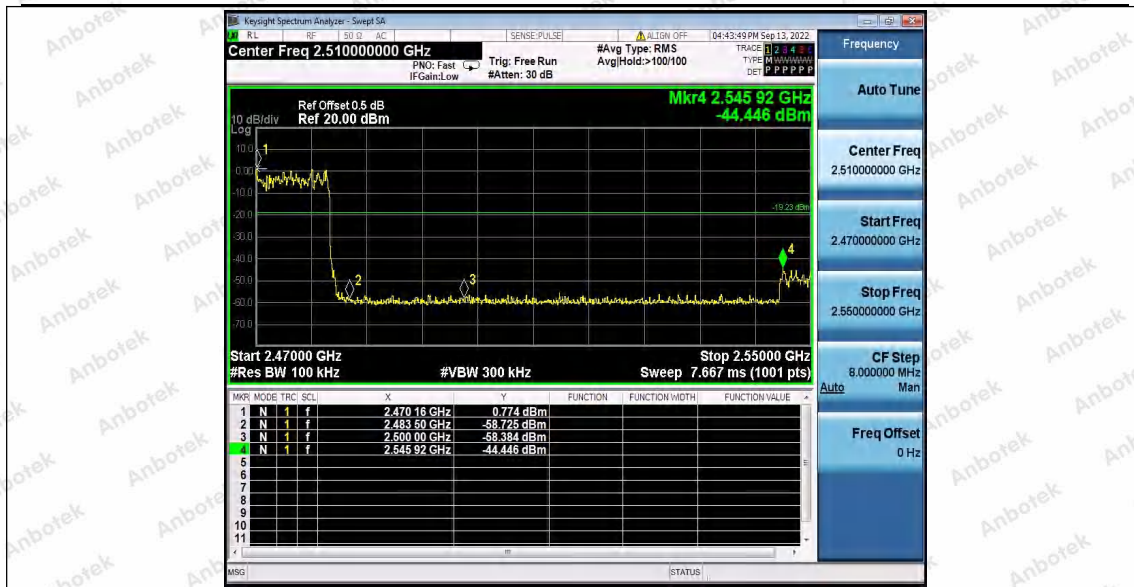
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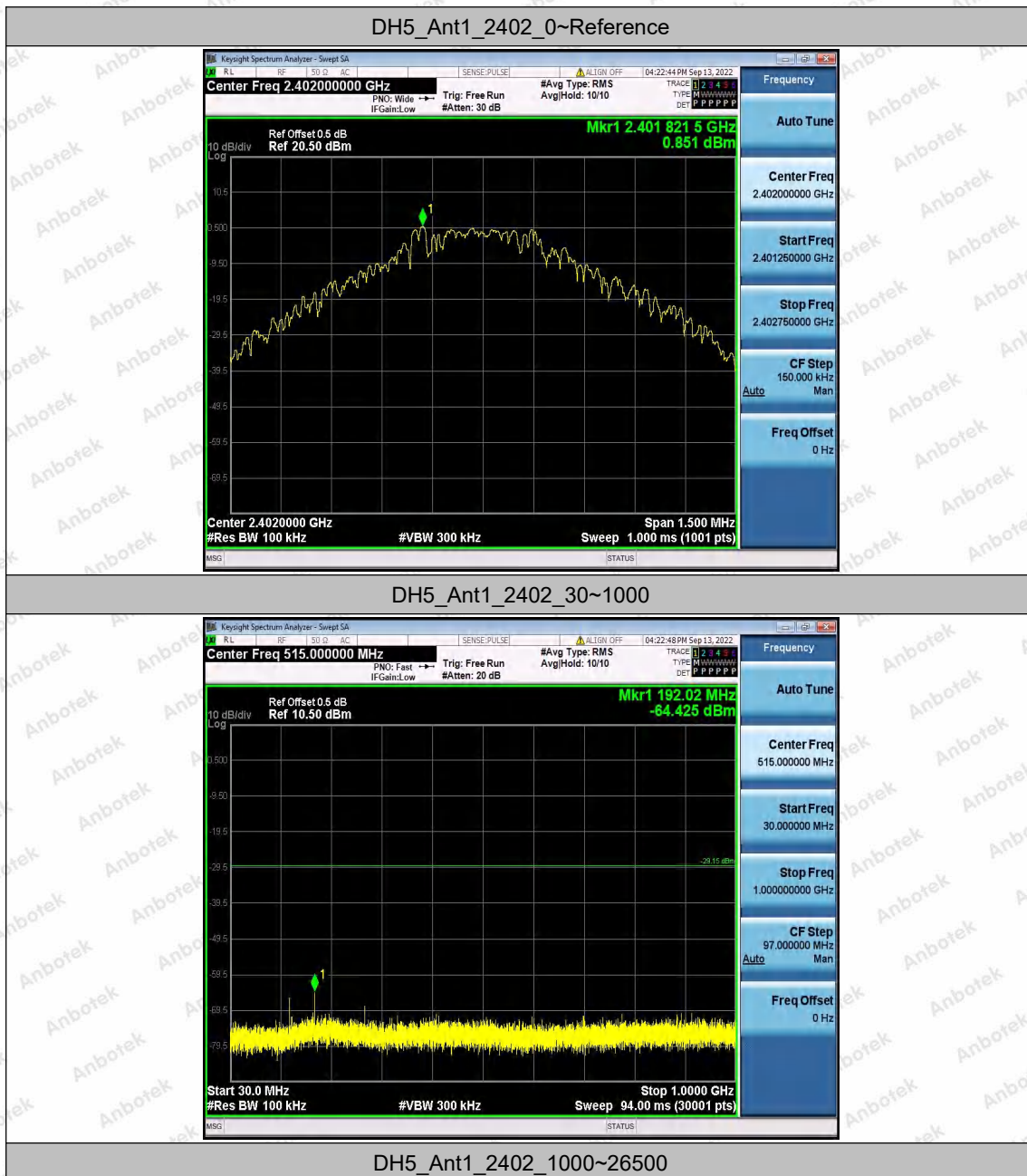
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-64.43	≤-29.15	PASS
			1000~26500	0.85	-33.61	≤-29.15	PASS
		2441	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-64.04	≤-29.6	PASS
			1000~26500	0.40	-35.21	≤-29.6	PASS
		2480	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-64.25	≤-30.02	PASS
			1000~26500	-0.02	-36.63	≤-30.02	PASS
2DH5	Ant1	2402	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-63.31	≤-31.77	PASS
			1000~26500	-1.77	-34	≤-31.77	PASS
		2441	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-64.11	≤-29.76	PASS
			1000~26500	0.24	-36.3	≤-29.76	PASS
		2480	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-63.31	≤-29.96	PASS
			1000~26500	0.04	-38.51	≤-29.96	PASS



Test Graphs



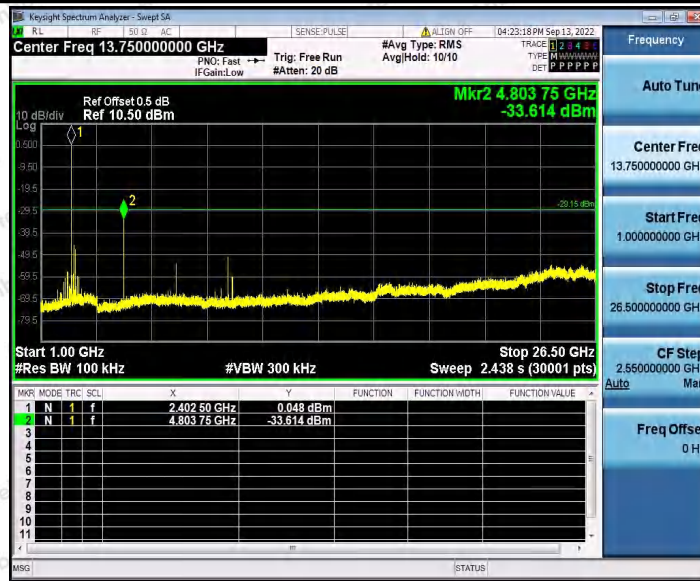
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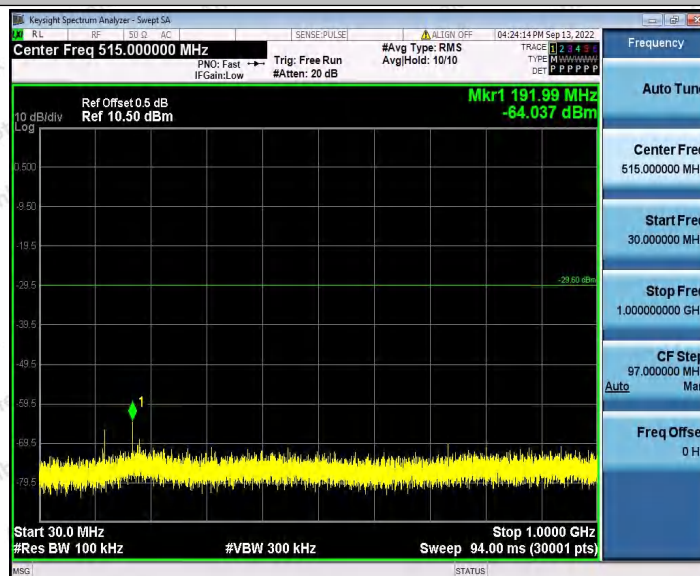




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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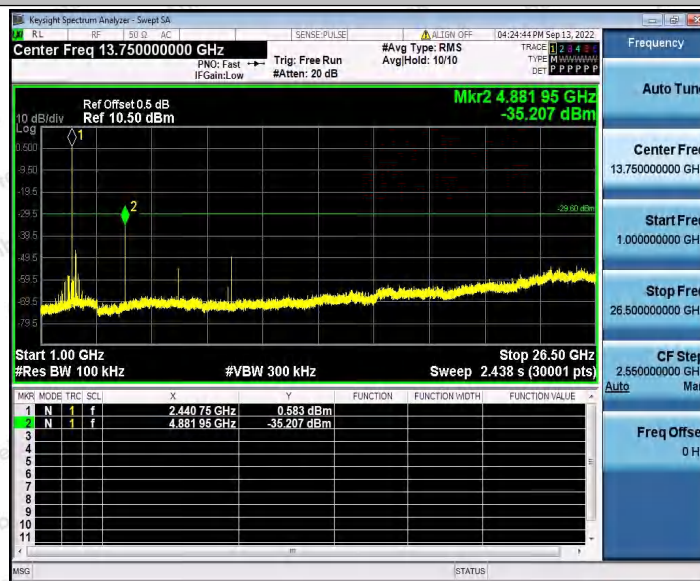
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

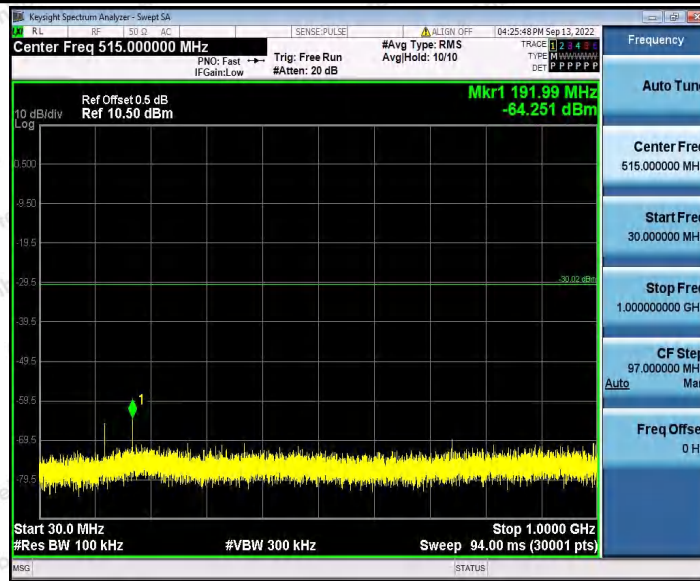
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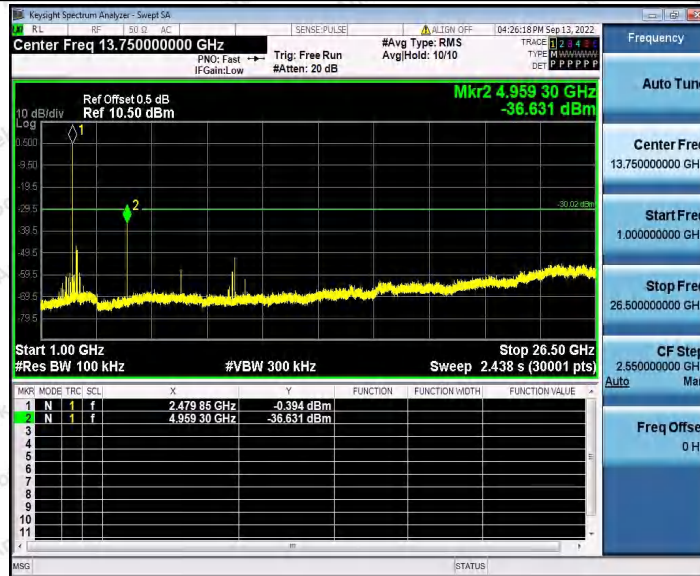


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



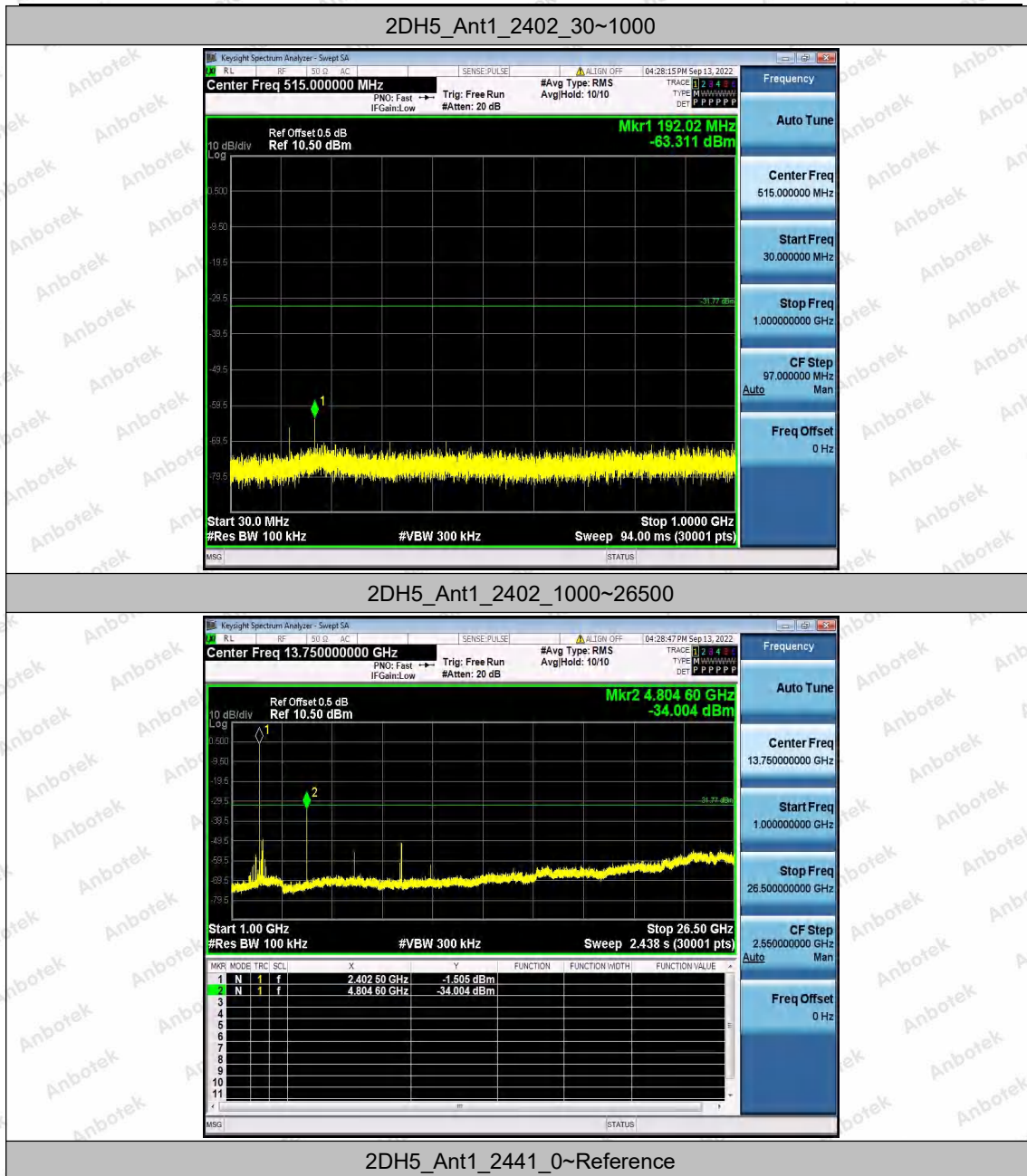
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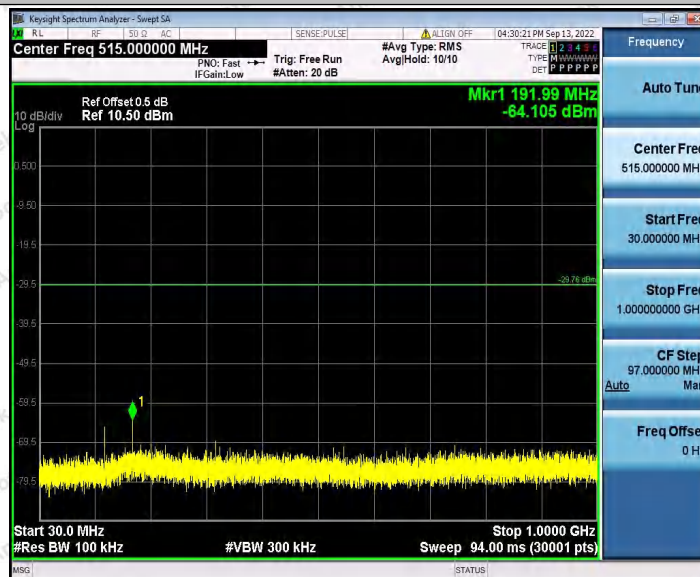


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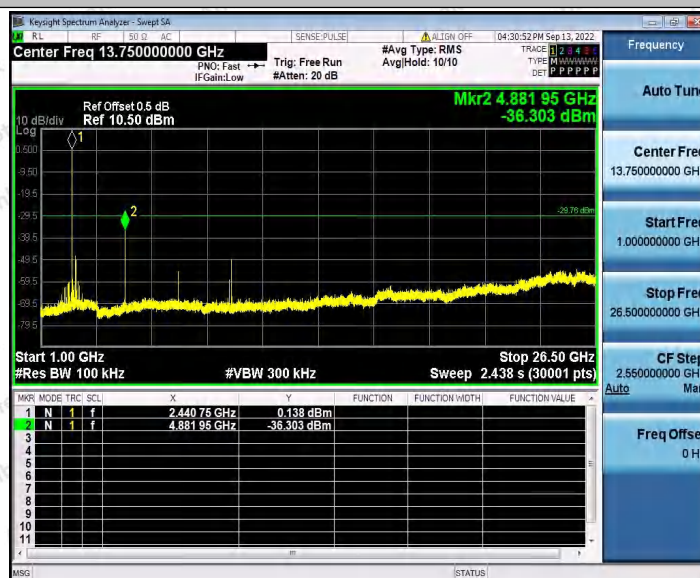




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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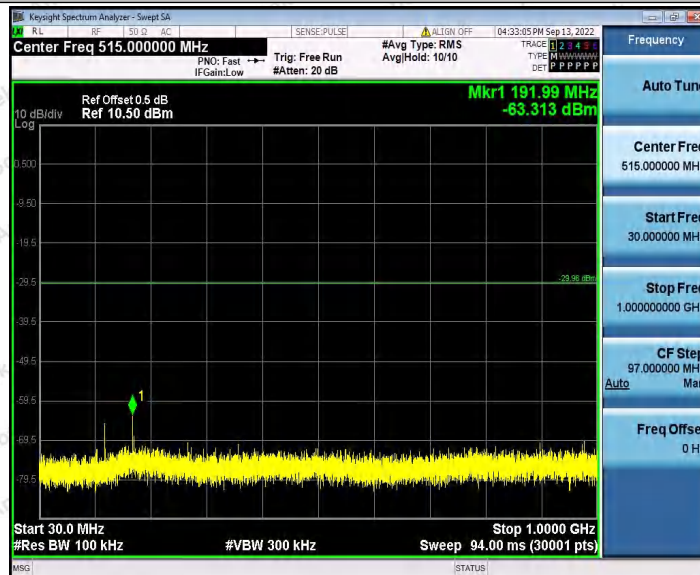
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

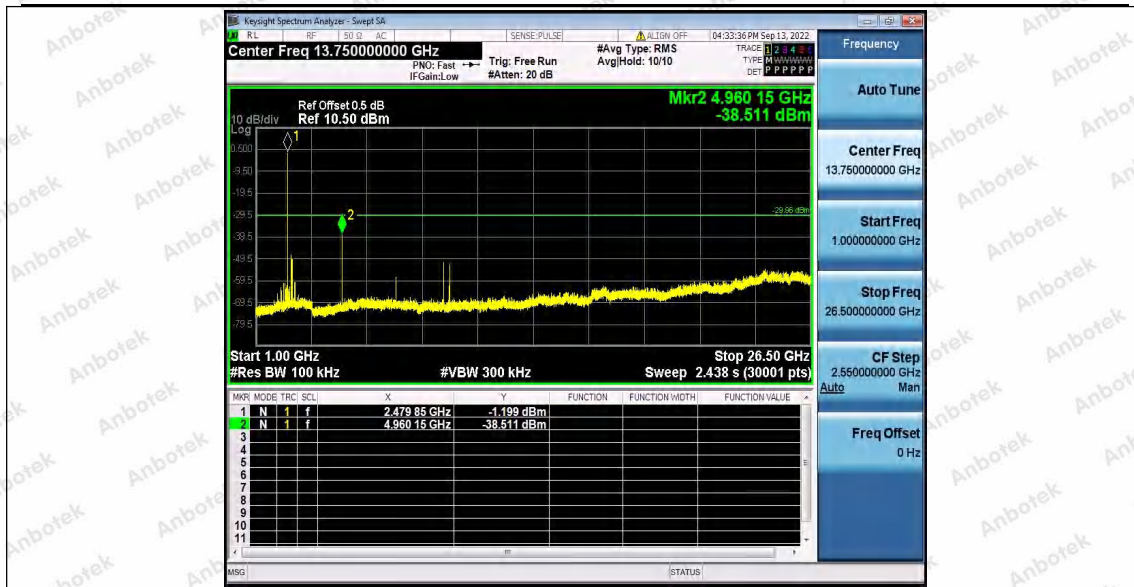
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.90	3.75	77.33	1.12
		2441	2.90	3.75	77.33	1.12
		2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.92	3.75	77.87	1.09
		2441	2.91	3.75	77.60	1.10
		2480	2.91	3.74	77.81	1.09

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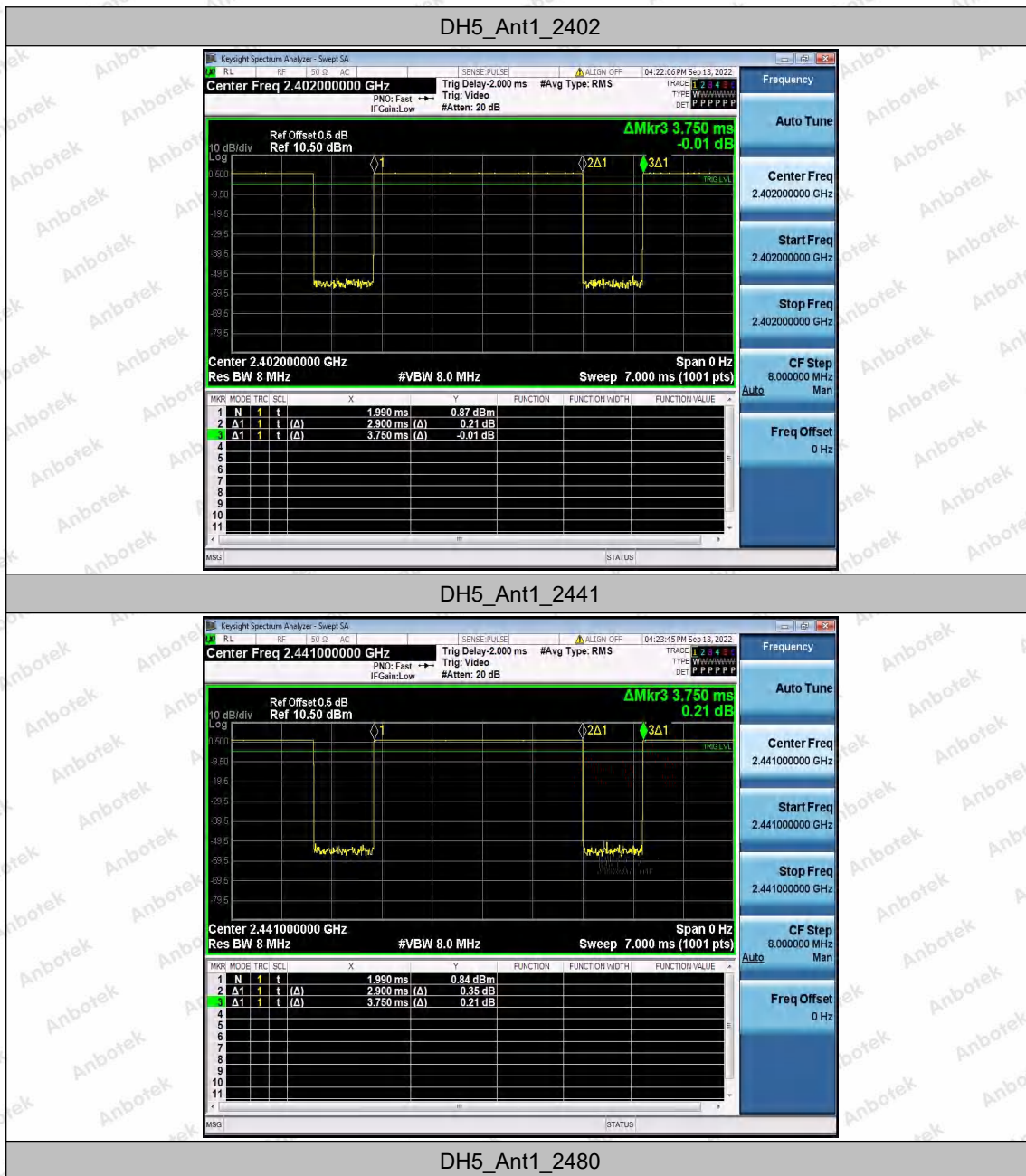
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Test Graphs



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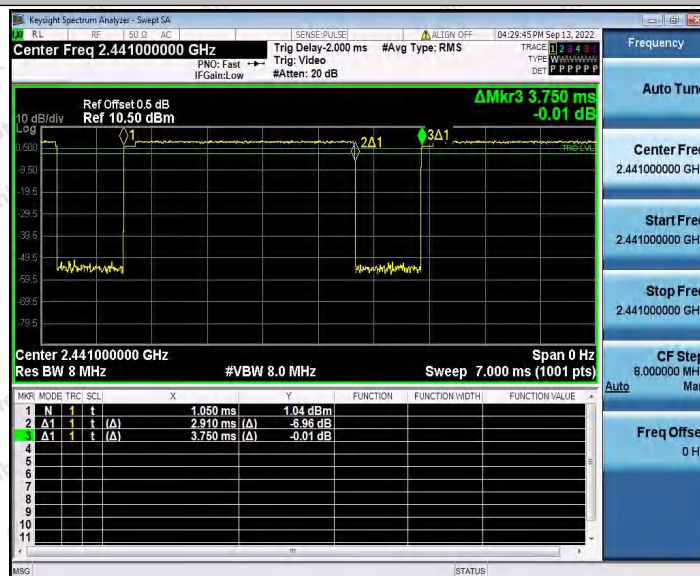




2DH5_Ant1_2402



2DH5_Ant1_2441



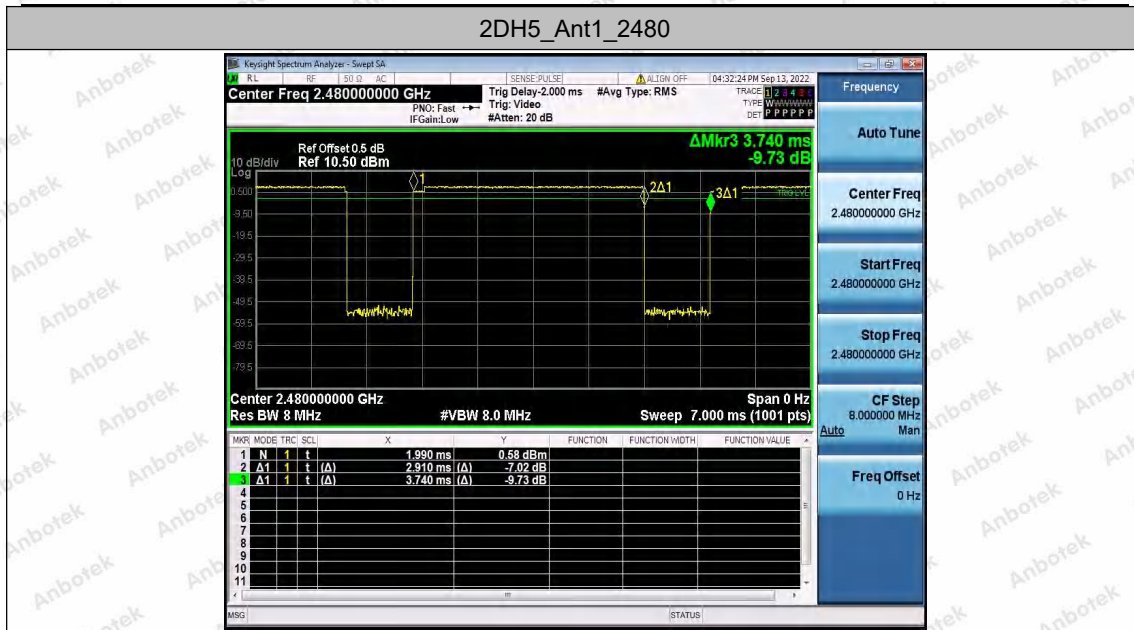
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