

Appendix Test Data

Report No.:	1819C40027112501	Test Sample No.:	1-2-2
Start Test Date:	2024.09.05	Finish Test Date:	2024.09.27
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25 °C	Relative Humidity:	51%
Pressure:	101kPa		

Appendix A: 20dB Bandwidth

Test Result

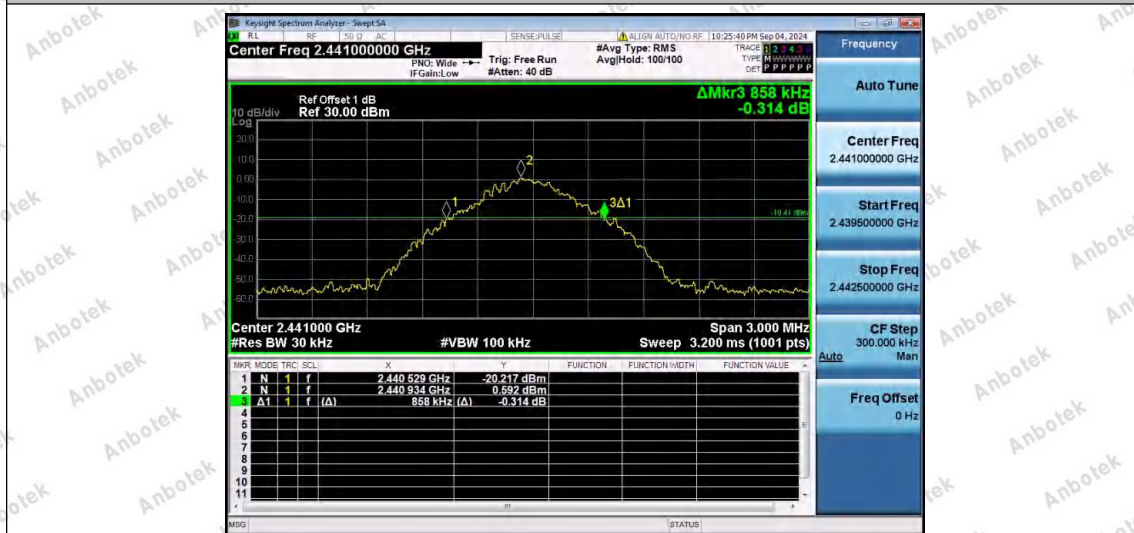
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.912	2401.532	2402.444	---	---
DH5	Ant1	2441	0.858	2440.529	2441.387	---	---
DH5	Ant1	2480	0.855	2479.526	2480.381	---	---
2DH5	Ant1	2402	1.320	2401.307	2402.627	---	---
2DH5	Ant1	2441	1.311	2440.316	2441.627	---	---
2DH5	Ant1	2480	1.326	2479.301	2480.627	---	---
3DH5	Ant1	2402	1.329	2401.298	2402.627	---	---
3DH5	Ant1	2441	1.323	2440.310	2441.633	---	---
3DH5	Ant1	2480	1.320	2479.307	2480.627	---	---



Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480

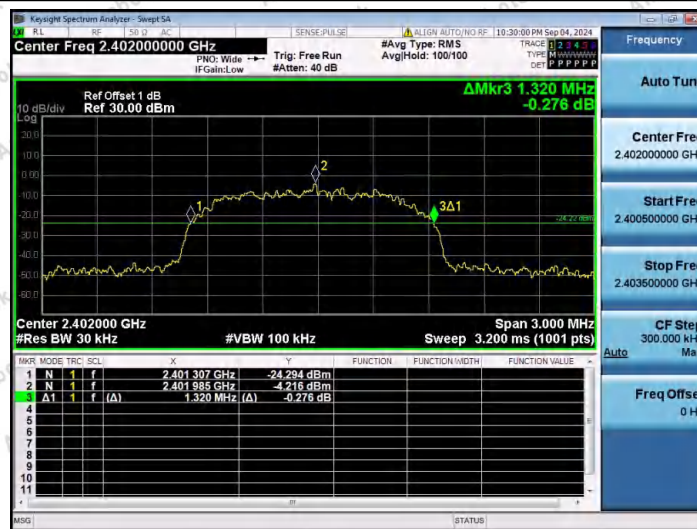
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2DH5-Ant1-2402



2DH5-Ant1-2441

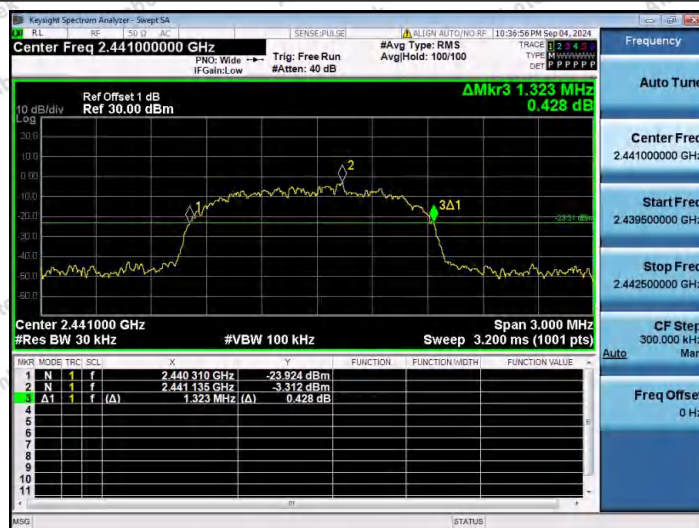


2DH5-Ant1-2480

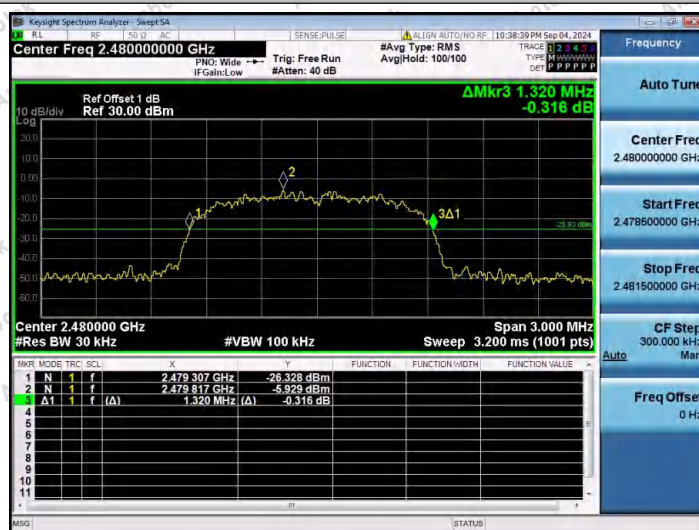




3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

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Appendix B: 99% Occupied Bandwidth

Test Result

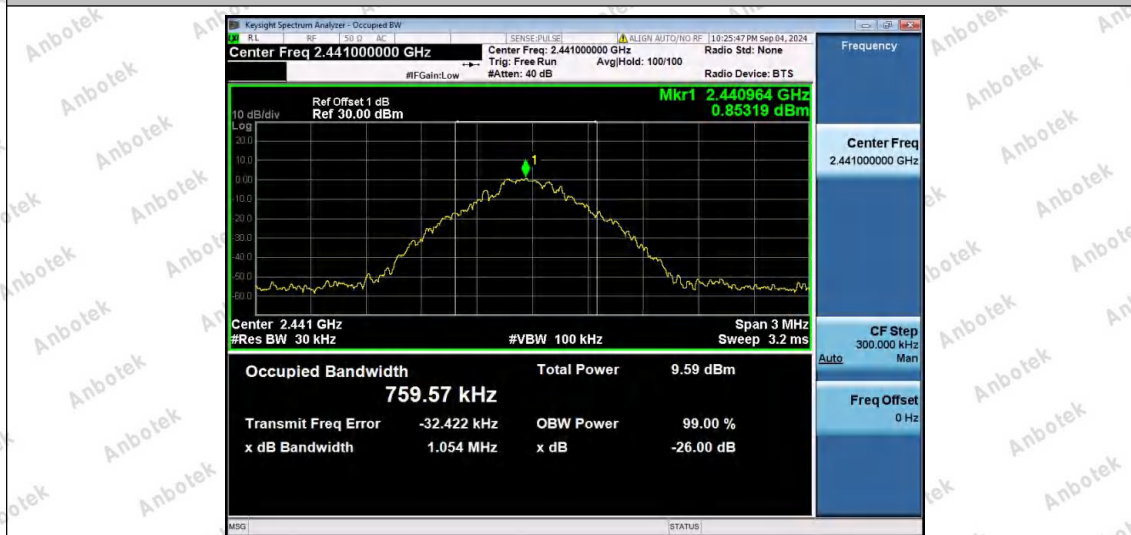
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.75421	2401.5991	2402.3533	---	---
DH5	Ant1	2441	0.75957	2440.5878	2441.3474	---	---
DH5	Ant1	2480	0.74828	2479.5905	2480.3388	---	---
2DH5	Ant1	2402	1.1955	2401.3717	2402.5672	---	---
2DH5	Ant1	2441	1.1958	2440.3680	2441.5638	---	---
2DH5	Ant1	2480	1.1918	2479.3706	2480.5624	---	---
3DH5	Ant1	2402	1.1845	2401.3800	2402.5645	---	---
3DH5	Ant1	2441	1.2020	2440.3643	2441.5663	---	---
3DH5	Ant1	2480	1.1758	2479.3871	2480.5629	---	---



Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480

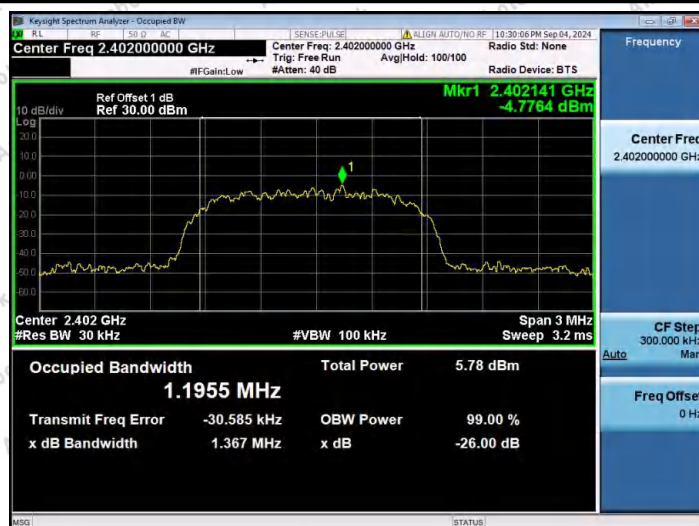
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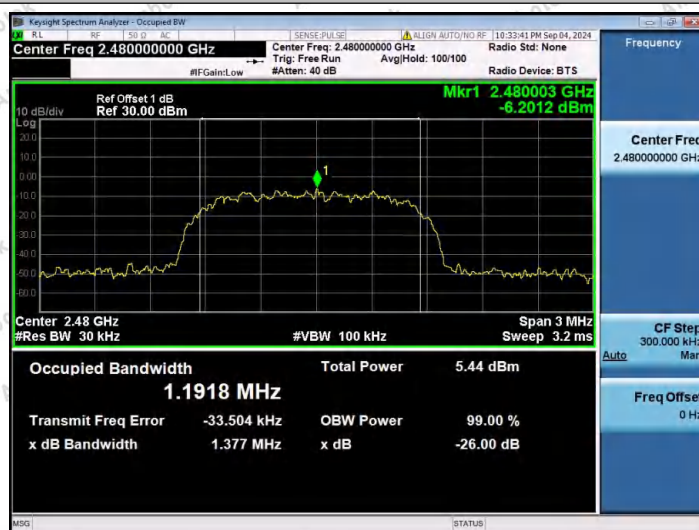




2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480

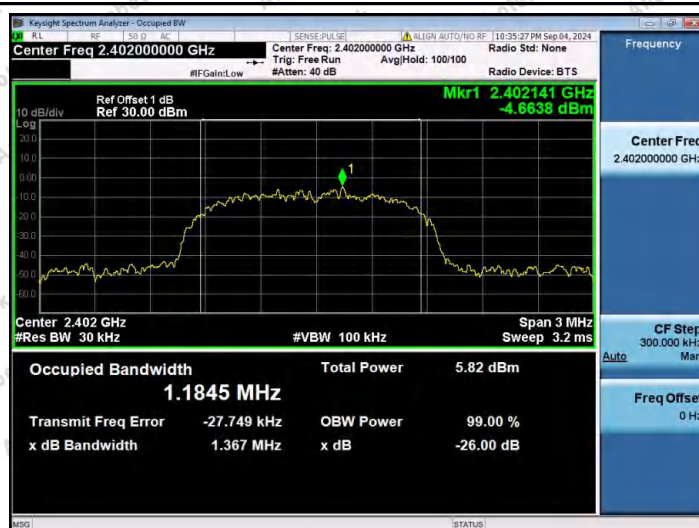
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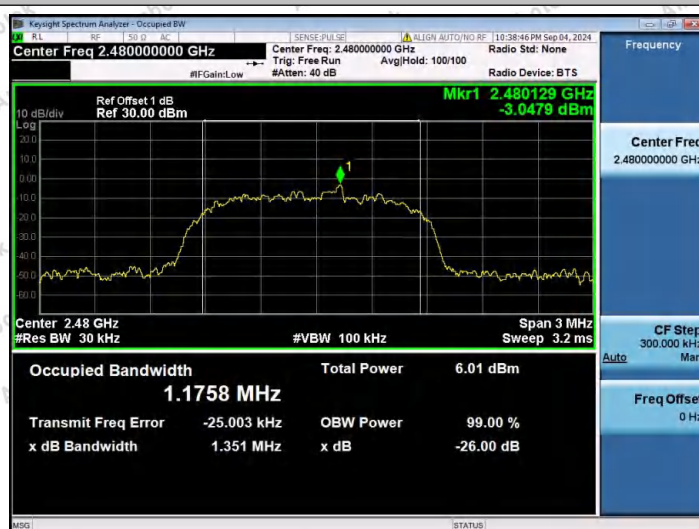




3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.79	≤20.97	PASS
DH5	Ant1	2441	4.02	≤20.97	PASS
DH5	Ant1	2480	2.51	≤20.97	PASS
2DH5	Ant1	2402	2.29	≤20.97	PASS
2DH5	Ant1	2441	3.54	≤20.97	PASS
2DH5	Ant1	2480	1.99	≤20.97	PASS
3DH5	Ant1	2402	2.75	≤20.97	PASS
3DH5	Ant1	2441	3.96	≤20.97	PASS
3DH5	Ant1	2480	2.49	≤20.97	PASS



Test Graphs



DH5-Ant1-2402-PASS



DH5-Ant1-2441-PASS



DH5-Ant1-2480-PASS

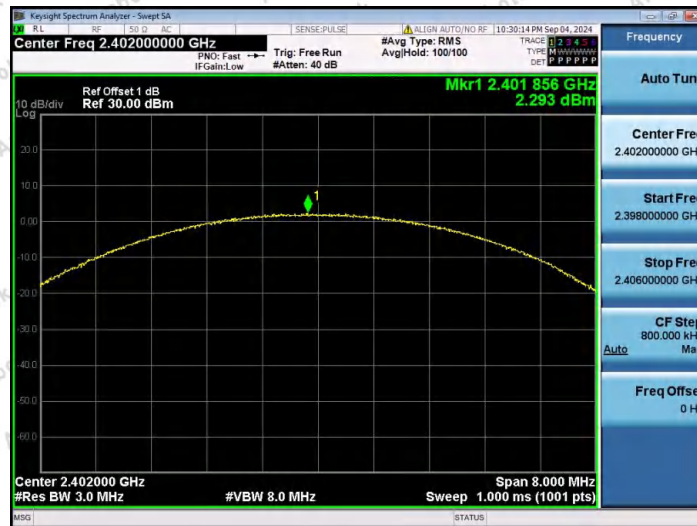
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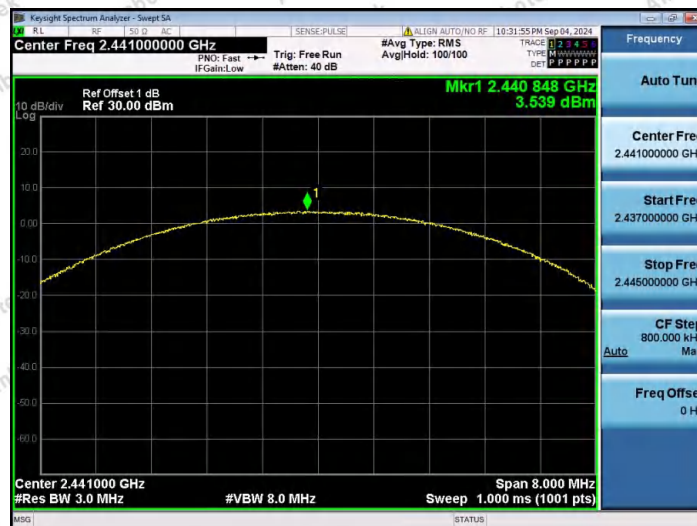


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2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS





3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.014	≥0.608	PASS
2DH5	Ant1	Hop	1.316	≥0.884	PASS
3DH5	Ant1	Hop	1.292	≥0.886	PASS



Test Graphs



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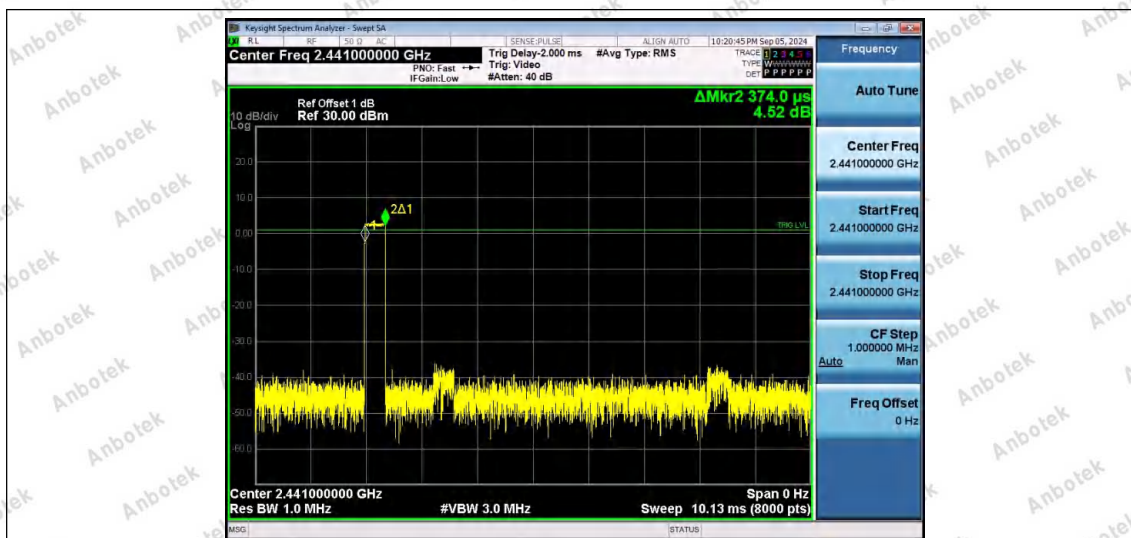
Appendix E: Dwell Time

Test Result

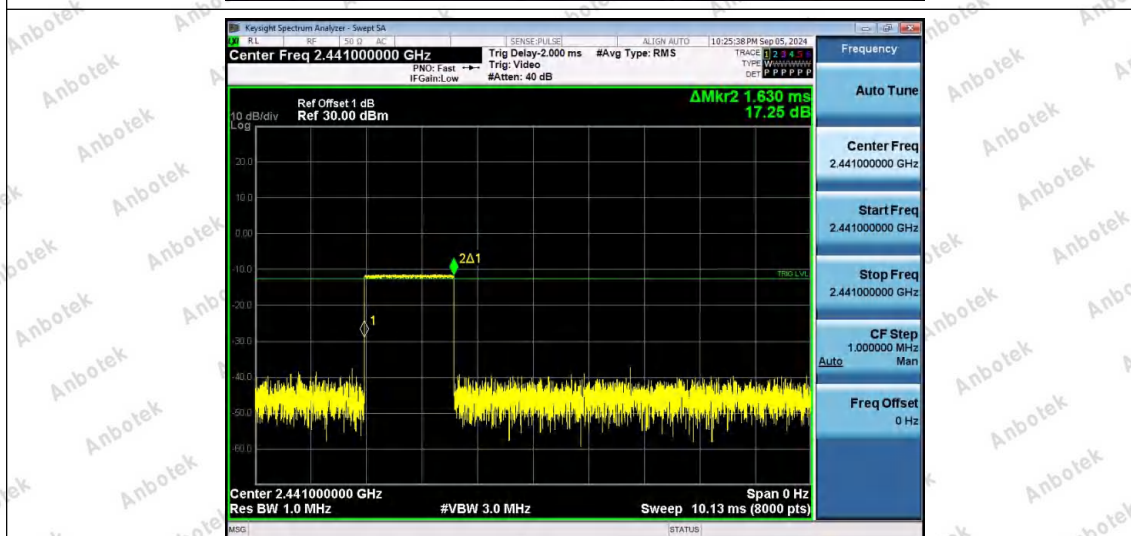
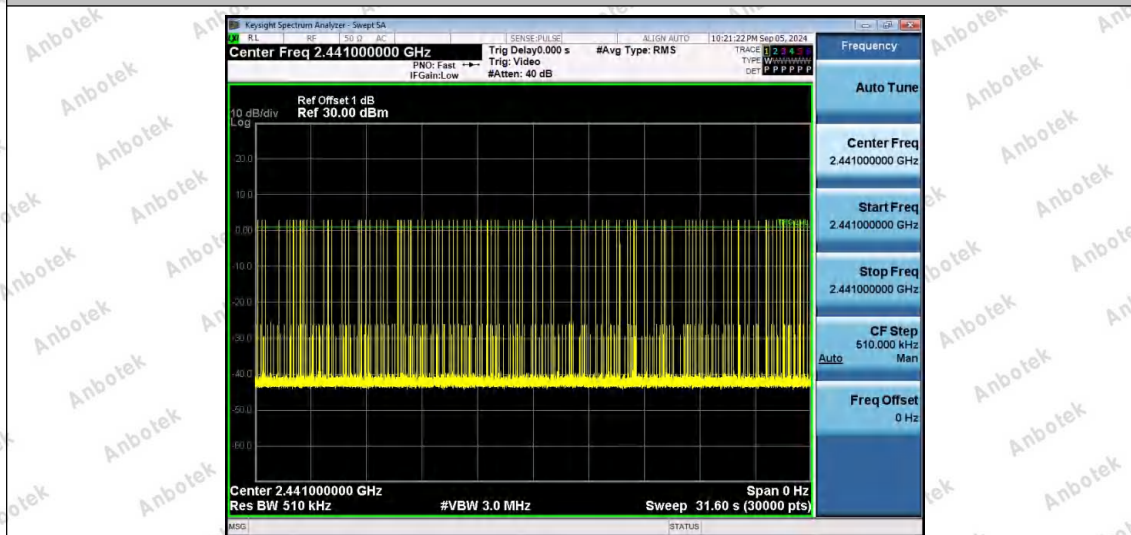
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.374	115	0.043	≤0.4	PASS
DH3	Ant1	Hop	1.630	59	0.096	≤0.4	PASS
DH5	Ant1	Hop	2.877	46	0.132	≤0.4	PASS
2DH1	Ant1	Hop	0.381	118	0.045	≤0.4	PASS
2DH3	Ant1	Hop	1.634	24	0.039	≤0.4	PASS
2DH5	Ant1	Hop	2.891	112	0.324	≤0.4	PASS
3DH1	Ant1	Hop	0.381	120	0.046	≤0.4	PASS
3DH3	Ant1	Hop	1.633	71	0.116	≤0.4	PASS
3DH5	Ant1	Hop	2.878	45	0.13	≤0.4	PASS



Test Graphs



DH1-Ant1-Hop-PASS



DH3-Ant1-Hop-PASS

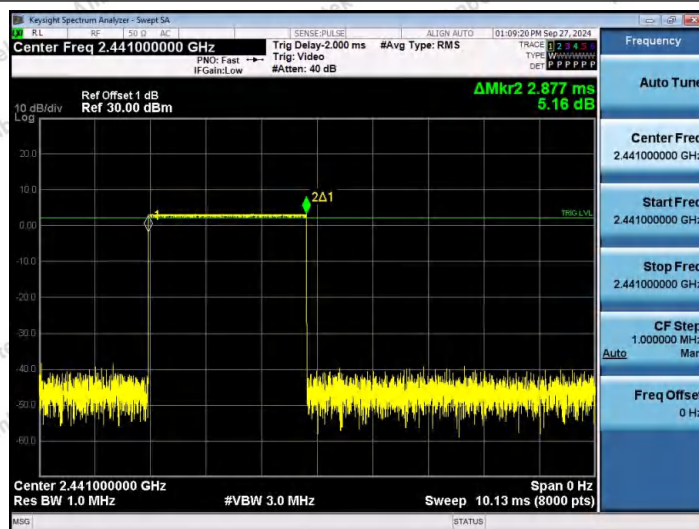
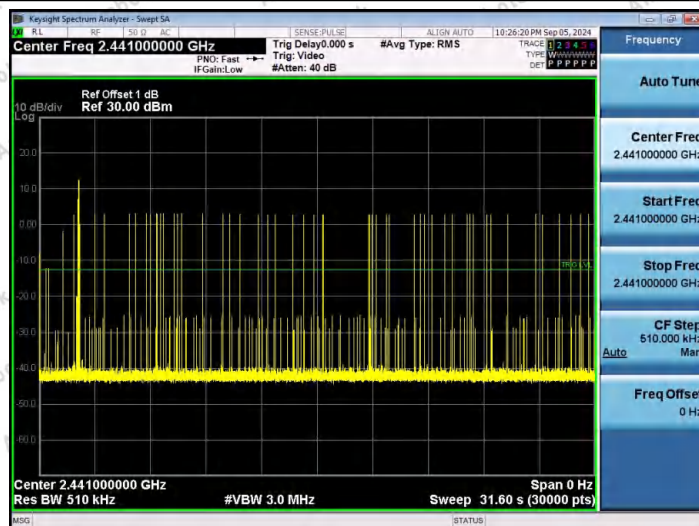
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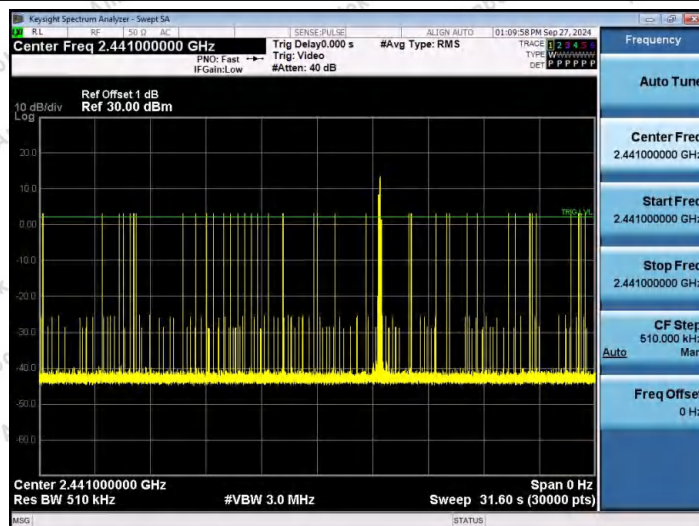


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DH5-Ant1-Hop-PASS



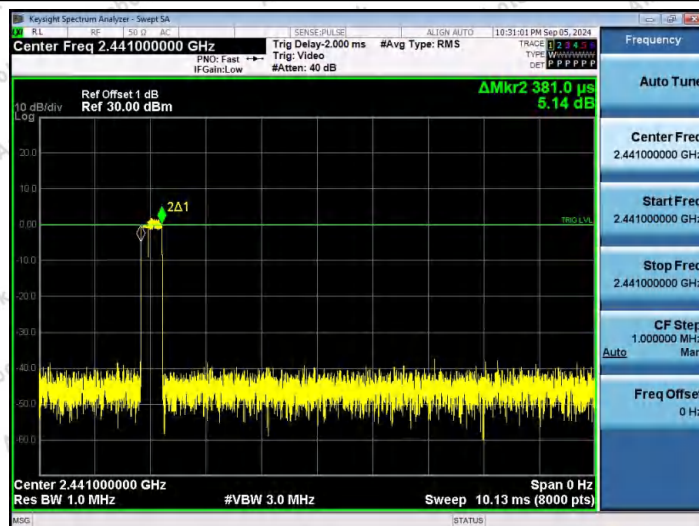
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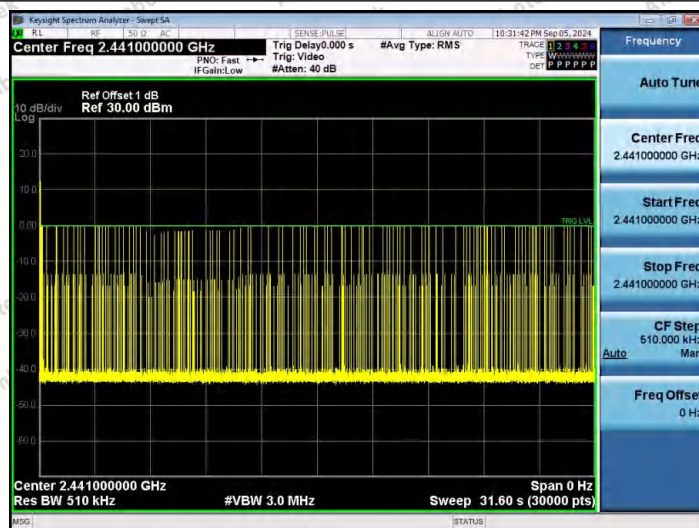


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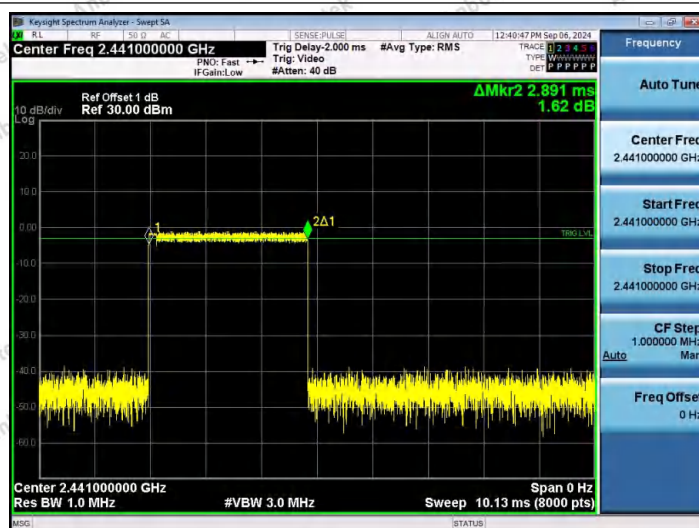
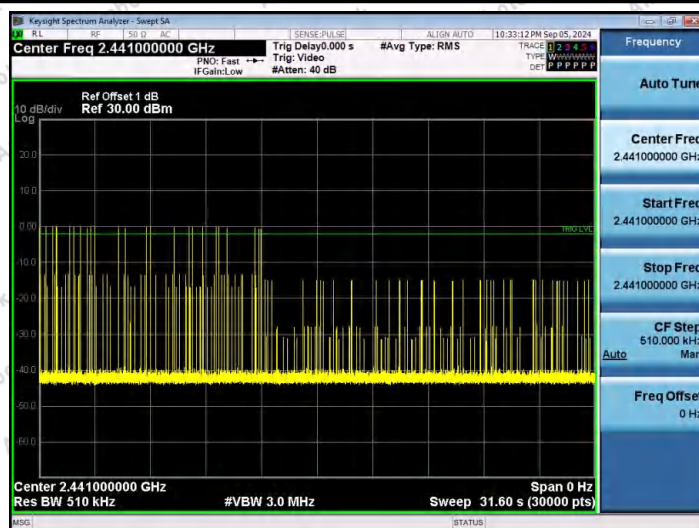


2DH1-Ant1-Hop-PASS

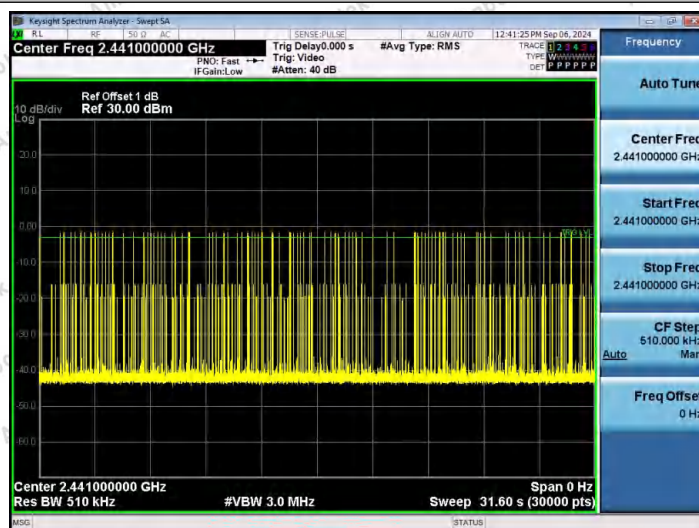


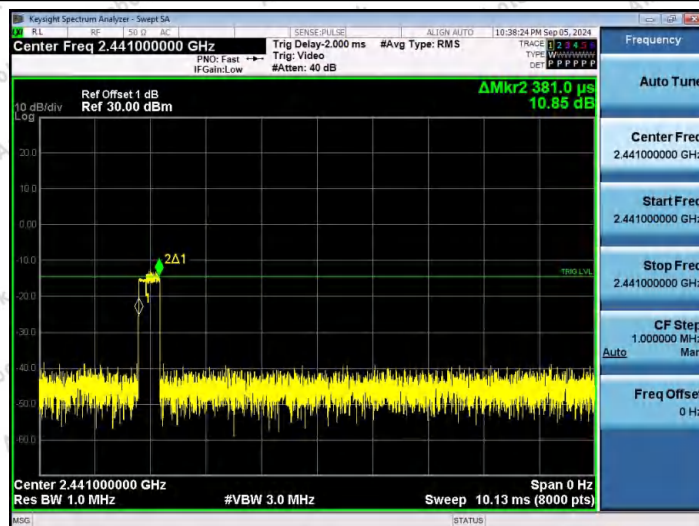
2DH3-Ant1-Hop-PASS



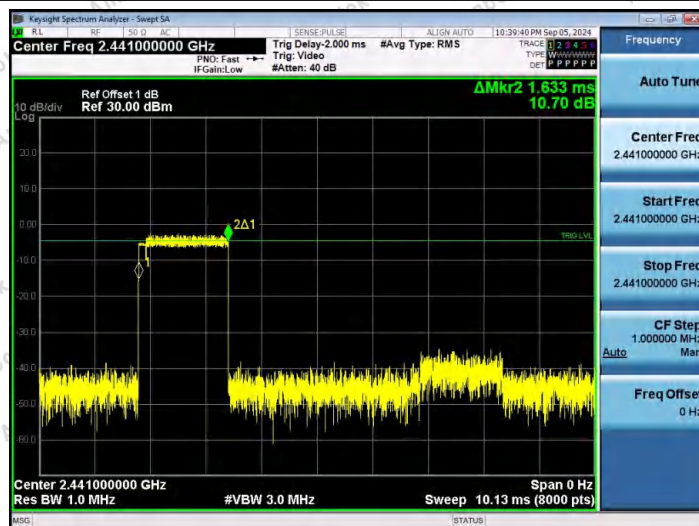
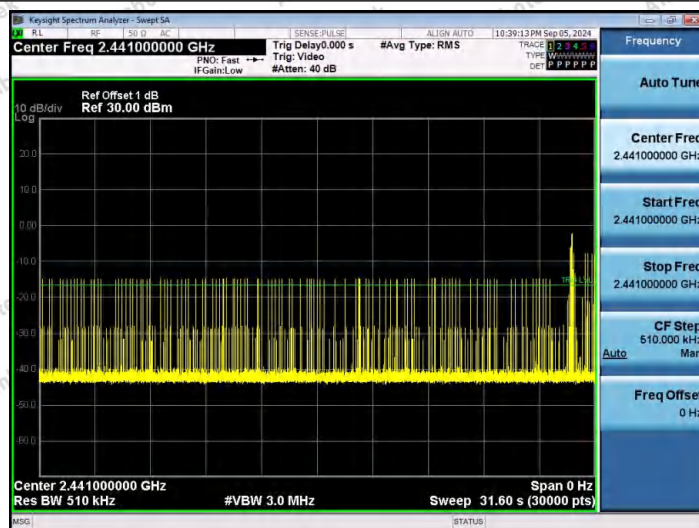


2DH5-Ant1-Hop-PASS



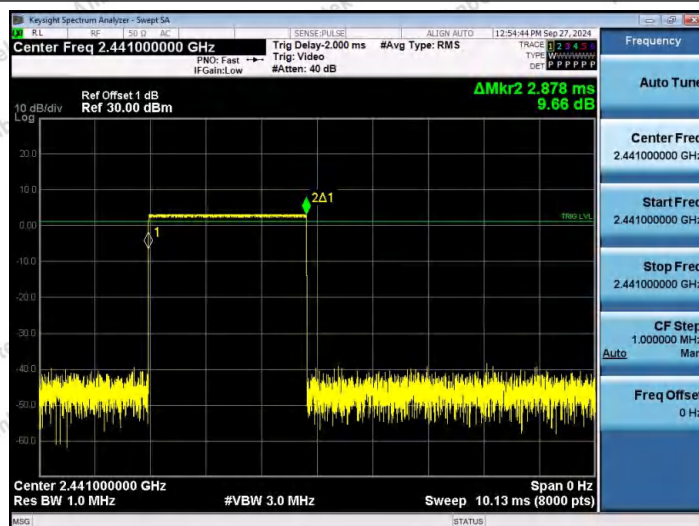
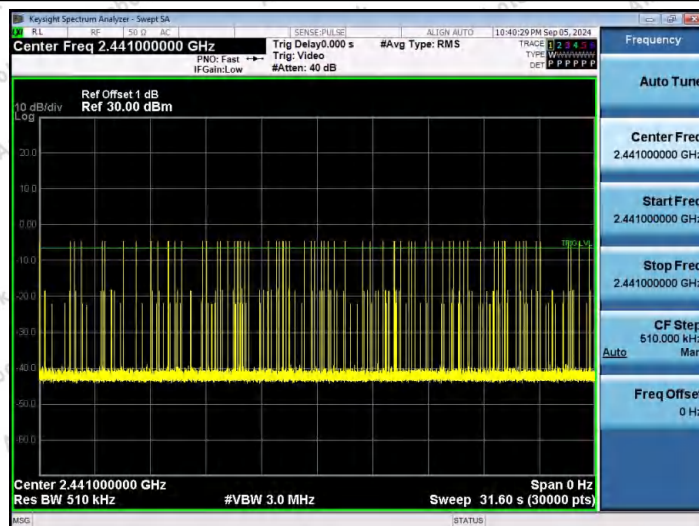


3DH1-Ant1-Hop-PASS

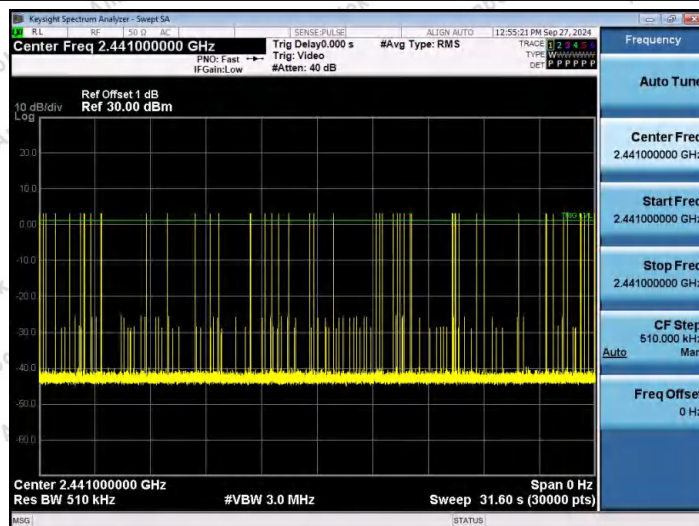


3DH3-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



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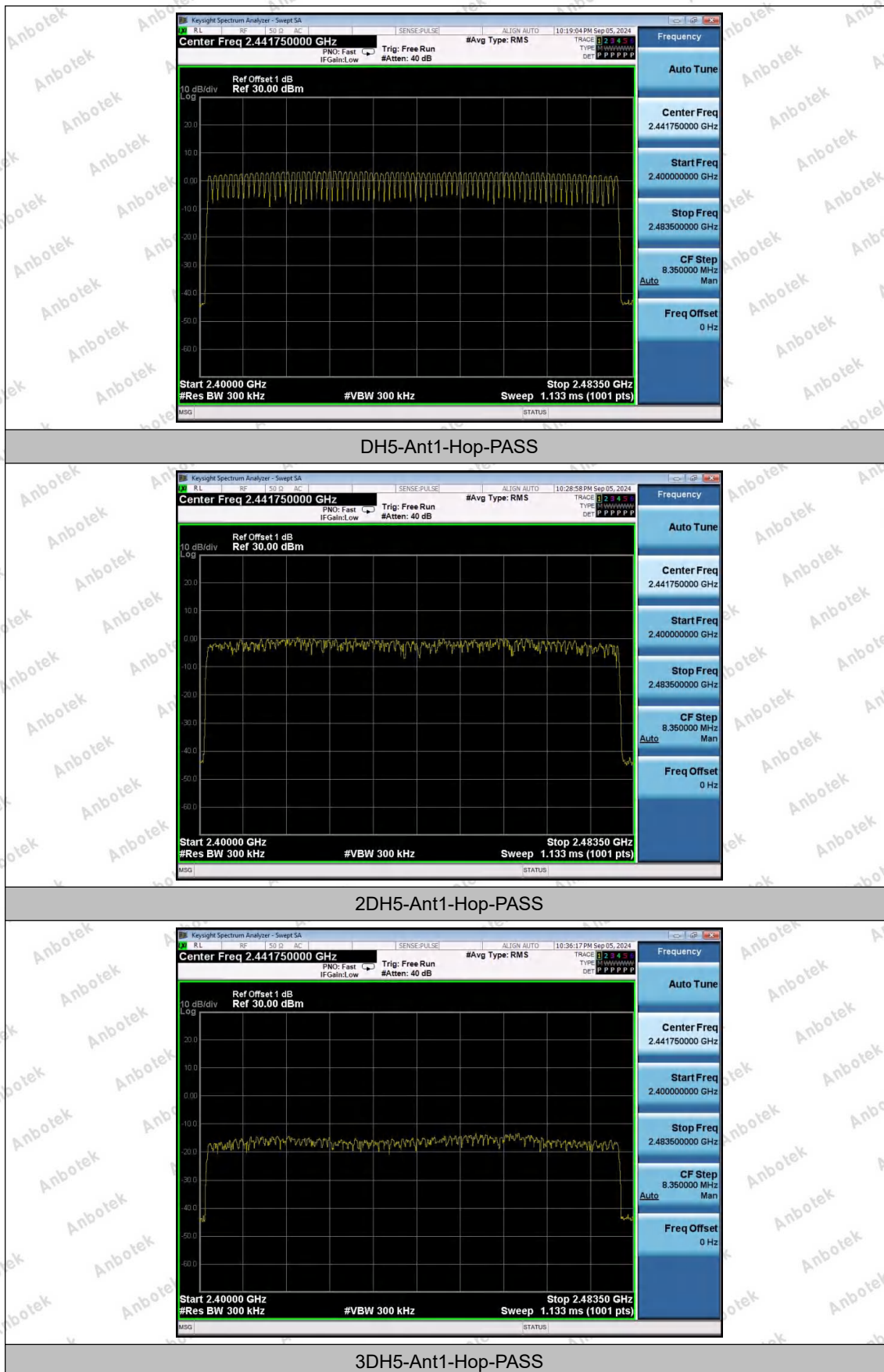
Appendix F: Number of Hopping Channel

Test Result

TestMode	Antenna	Frequency[MHz]	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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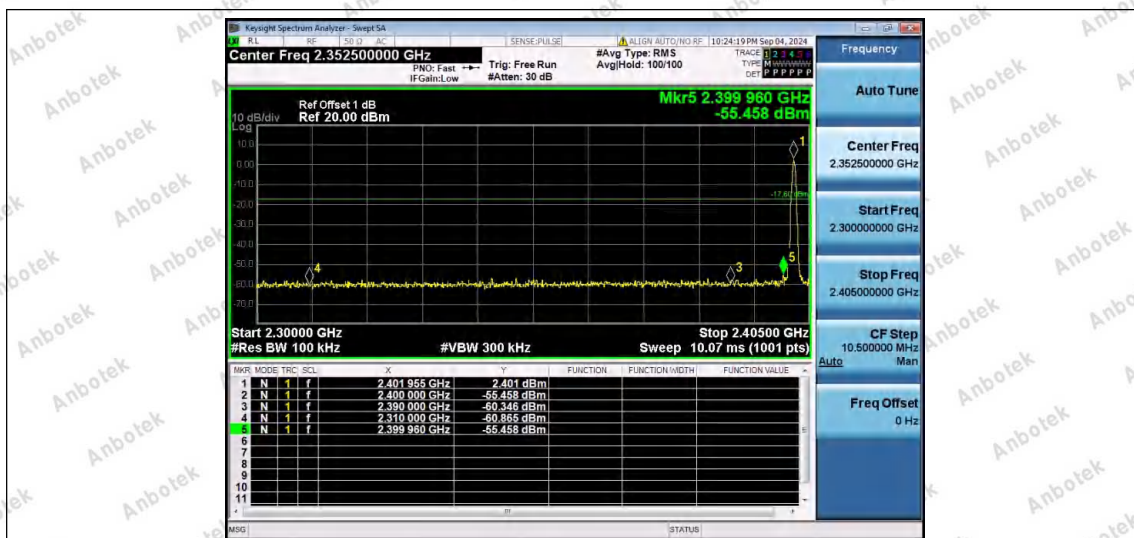
Appendix G: Conducted Band edge

Test Result

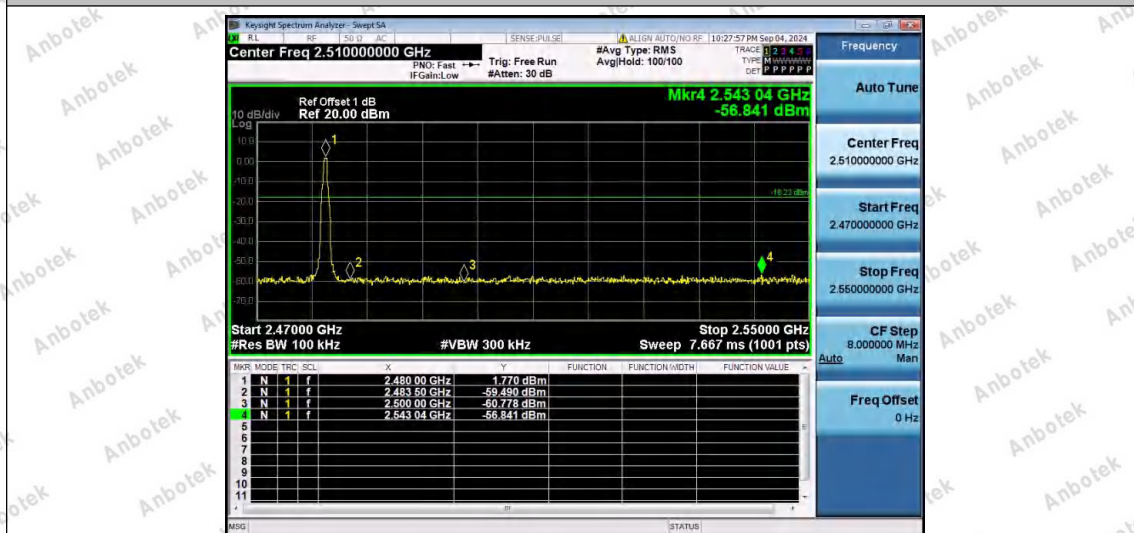
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.40	-55.46	≤-17.6	PASS
DH5	Ant1	High	2480	1.77	-56.84	≤-18.23	PASS
DH5	Ant1	Low	Hop_2402	2.44	-56.17	≤-17.56	PASS
DH5	Ant1	High	Hop_2480	2.47	-54.44	≤-17.53	PASS
2DH5	Ant1	Low	2402	-0.75	-53.37	≤-20.75	PASS
2DH5	Ant1	High	2480	-2.14	-56.76	≤-22.14	PASS
2DH5	Ant1	Low	Hop_2402	-5.88	-56.12	≤-25.88	PASS
2DH5	Ant1	High	Hop_2480	-17.06	-55.58	≤-37.06	PASS
3DH5	Ant1	Low	2402	-1.97	-54.86	≤-21.97	PASS
3DH5	Ant1	High	2480	-2.74	-56	≤-22.74	PASS
3DH5	Ant1	Low	Hop_2402	-16.68	-55.71	≤-36.68	PASS
3DH5	Ant1	High	Hop_2480	-16.96	-55.08	≤-36.96	PASS



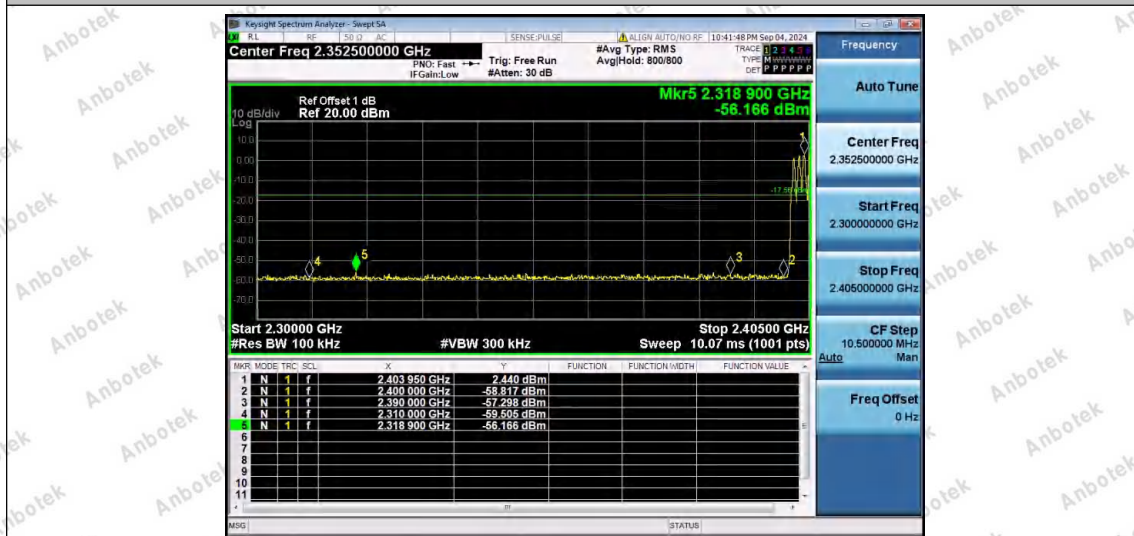
Test Graphs



DH5-Ant1-2402-PASS



DH5-Ant1-2480-PASS



DH5-Ant1-Hop_2402-PASS

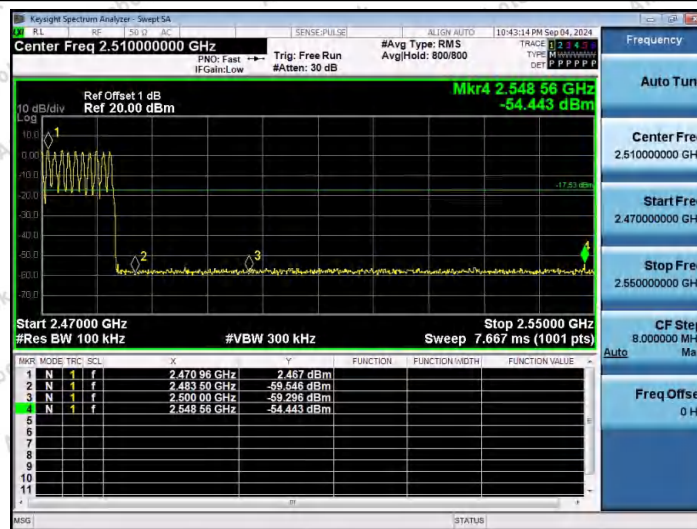
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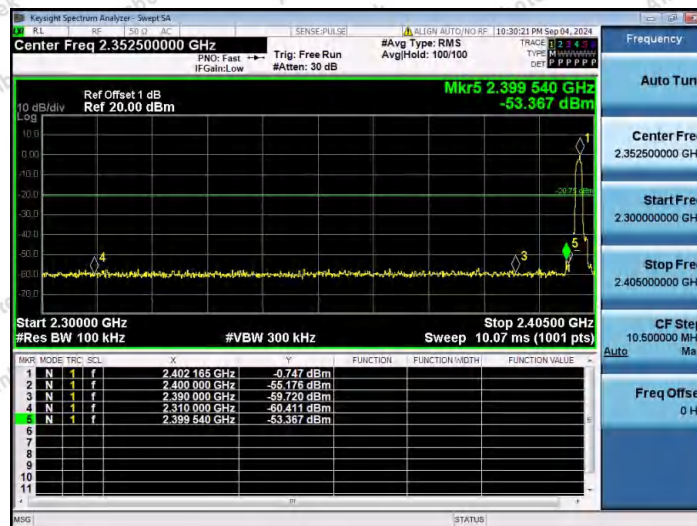


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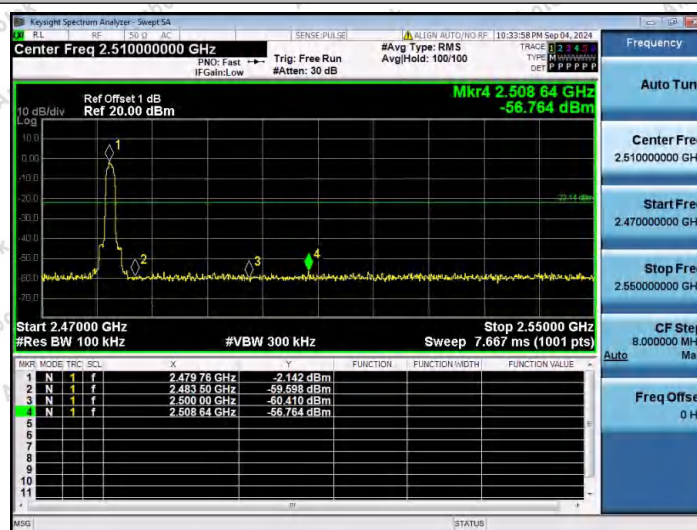




DH5-Ant1-Hop_2480-PASS

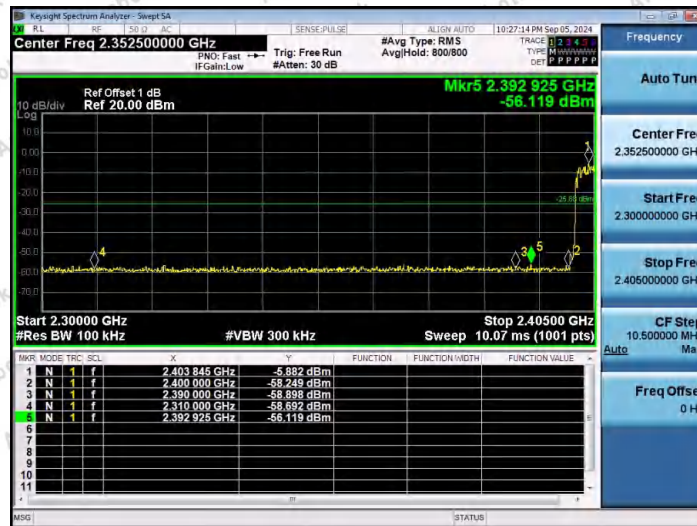


2DH5-Ant1-2402-PASS

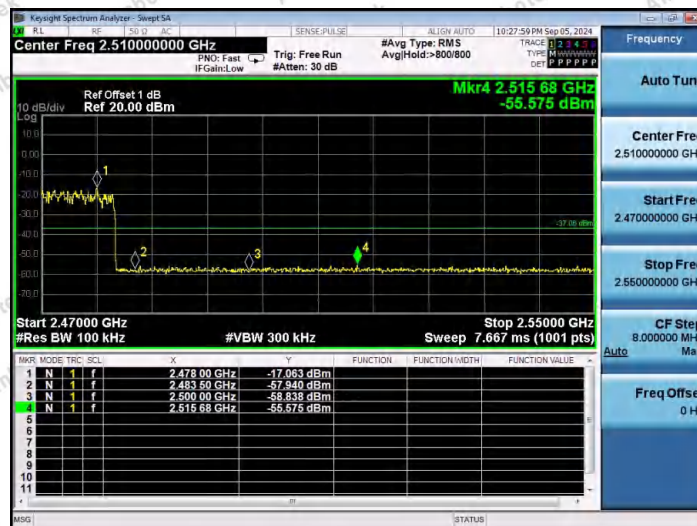


2DH5-Ant1-2480-PASS

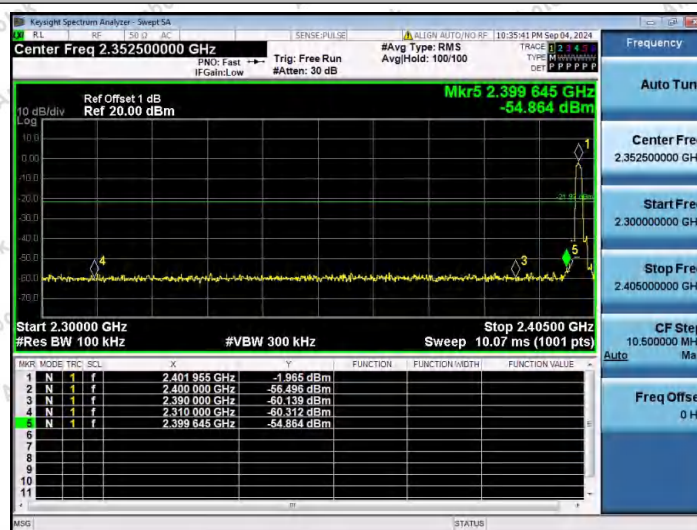




2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS



3DH5-Ant1-2402-PASS

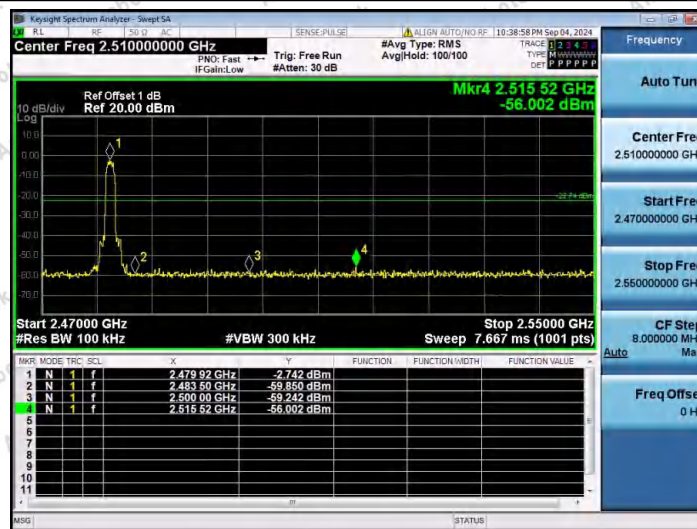
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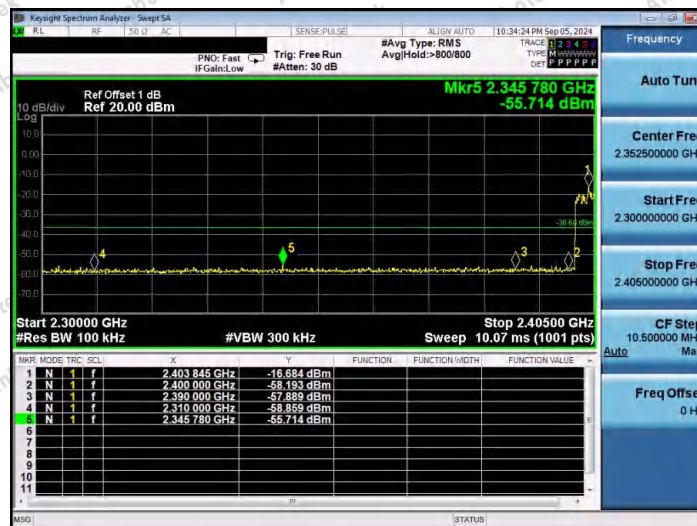


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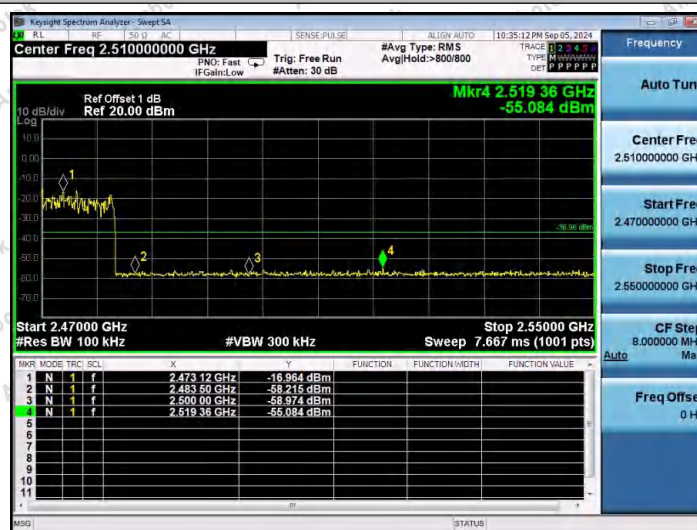




3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

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Appendix H: Conducted Spurious Emission

Test Result

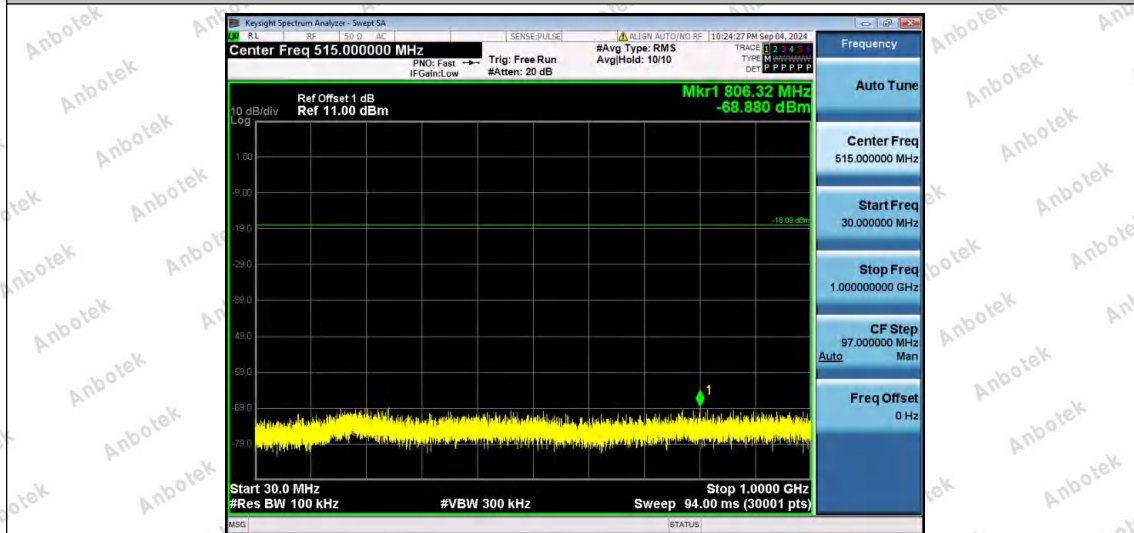
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	1.91	1.91	---	PASS
DH5	Ant1	2402	30~1000	1.91	-68.88	≤-18.09	PASS
DH5	Ant1	2402	1000~26500	1.91	-53.86	≤-18.09	PASS
DH5	Ant1	2441	0~Reference	2.89	2.89	---	PASS
DH5	Ant1	2441	30~1000	2.89	-67.37	≤-17.11	PASS
DH5	Ant1	2441	1000~26500	2.89	-53.62	≤-17.11	PASS
DH5	Ant1	2480	0~Reference	1.50	1.50	---	PASS
DH5	Ant1	2480	30~1000	1.50	-68.91	≤-18.5	PASS
DH5	Ant1	2480	1000~26500	1.50	-53.24	≤-18.5	PASS
2DH5	Ant1	2402	0~Reference	-2.80	-2.80	---	PASS
2DH5	Ant1	2402	30~1000	-2.80	-68.22	≤-22.8	PASS
2DH5	Ant1	2402	1000~26500	-2.80	-53.5	≤-22.8	PASS
2DH5	Ant1	2441	0~Reference	-1.41	-1.41	---	PASS
2DH5	Ant1	2441	30~1000	-1.41	-68.98	≤-21.41	PASS
2DH5	Ant1	2441	1000~26500	-1.41	-53.35	≤-21.41	PASS
2DH5	Ant1	2480	0~Reference	-3.61	-3.61	---	PASS
2DH5	Ant1	2480	30~1000	-3.61	-67.18	≤-23.61	PASS
2DH5	Ant1	2480	1000~26500	-3.61	-53.48	≤-23.61	PASS
3DH5	Ant1	2402	0~Reference	-2.17	-2.17	---	PASS
3DH5	Ant1	2402	30~1000	-2.17	-66.49	≤-22.17	PASS
3DH5	Ant1	2402	1000~26500	-2.17	-37.84	≤-22.17	PASS
3DH5	Ant1	2441	0~Reference	-1.36	-1.36	---	PASS
3DH5	Ant1	2441	30~1000	-1.36	-67.94	≤-21.36	PASS
3DH5	Ant1	2441	1000~26500	-1.36	-53.39	≤-21.36	PASS
3DH5	Ant1	2480	0~Reference	-2.19	-2.19	---	PASS
3DH5	Ant1	2480	30~1000	-2.19	-68.55	≤-22.19	PASS
3DH5	Ant1	2480	1000~26500	-2.19	-53.45	≤-22.19	PASS



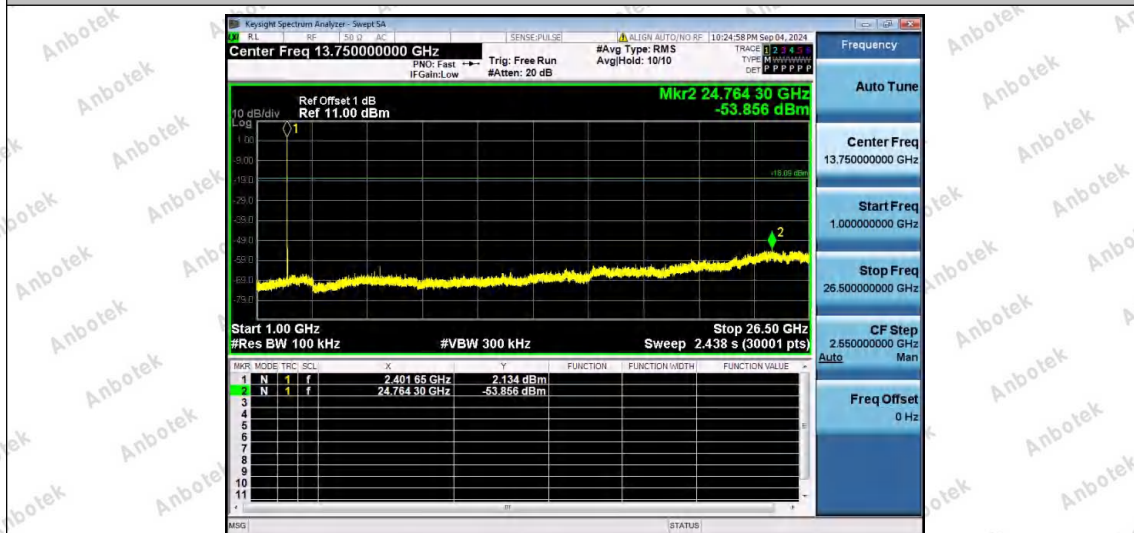
Test Graphs



DH5-Ant1-2402-0~Reference-PASS



DH5-Ant1-2402-30~1000-PASS



DH5-Ant1-2402-1000~26500-PASS

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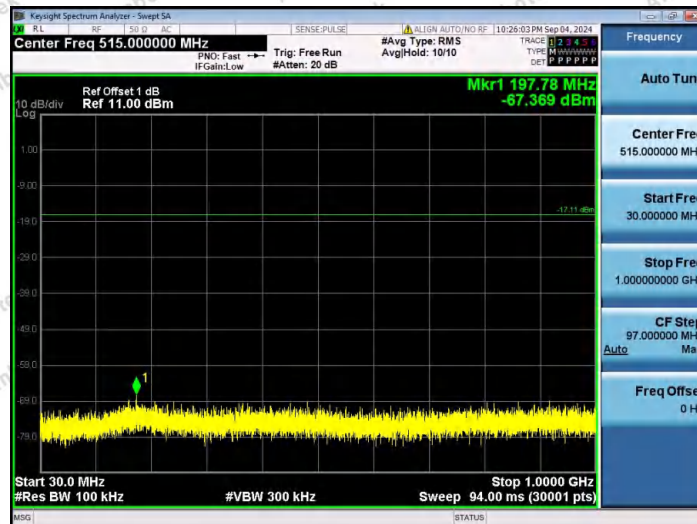


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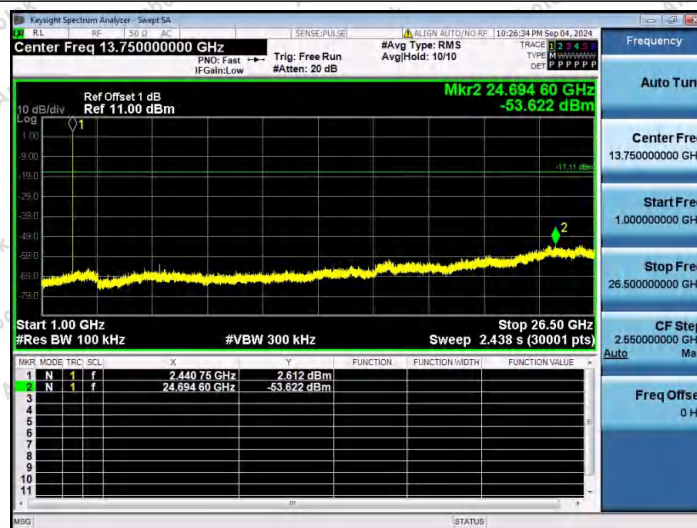




DH5-Ant1-2441-0~Reference-PASS



DH5-Ant1-2441-30~1000-PASS



DH5-Ant1-2441-1000~26500-PASS

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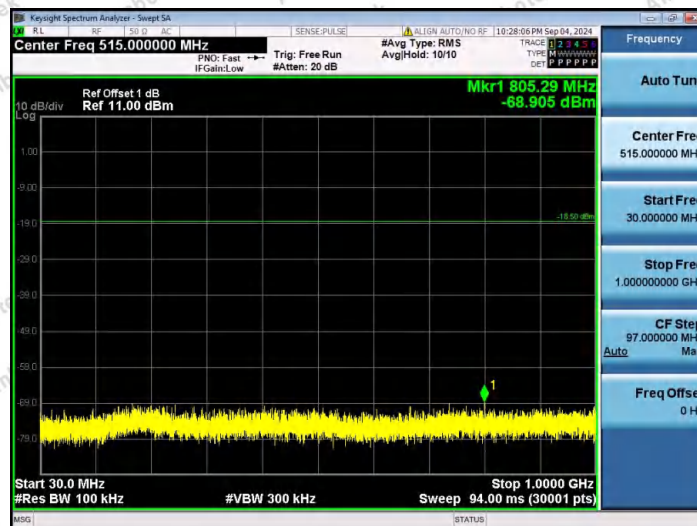


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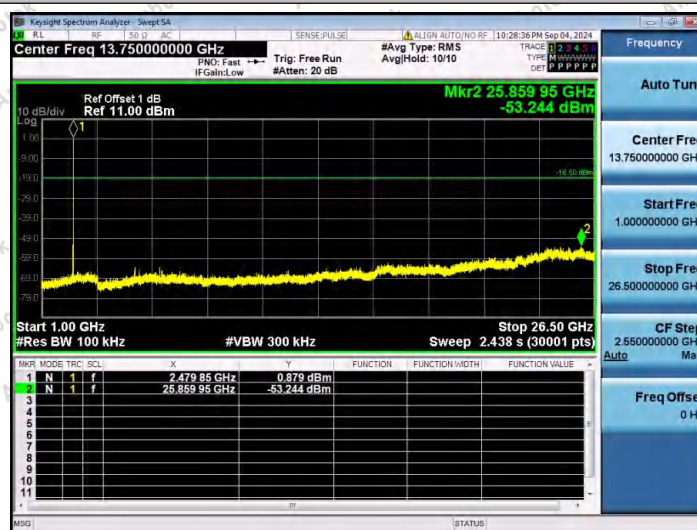




DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS



DH5-Ant1-2480-1000~26500-PASS

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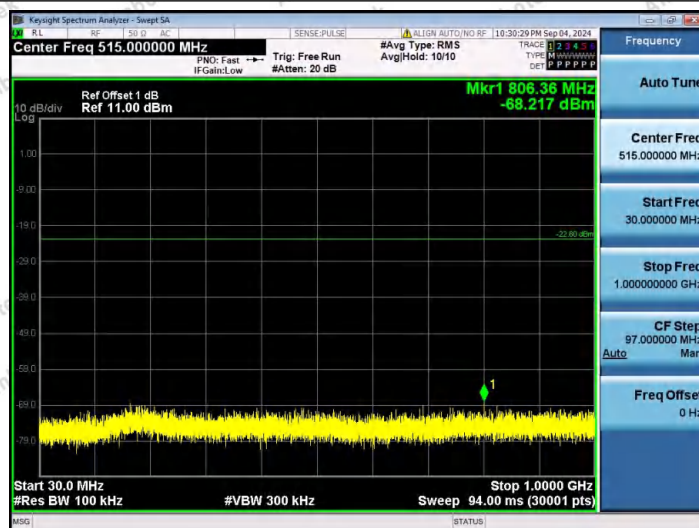


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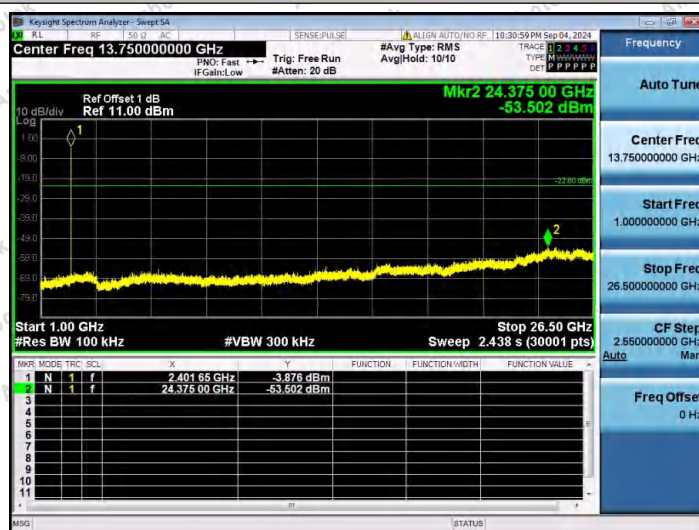




2DH5-Ant1-2402-0~Reference-PASS



2DH5-Ant1-2402-30~1000-PASS



2DH5-Ant1-2402-1000~26500-PASS

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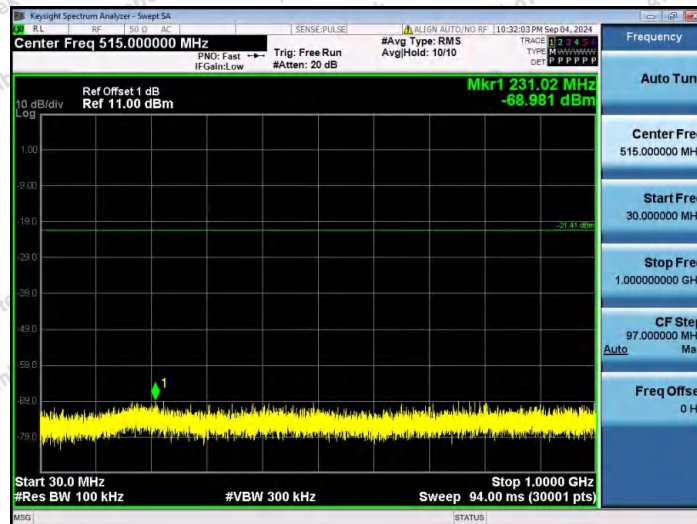


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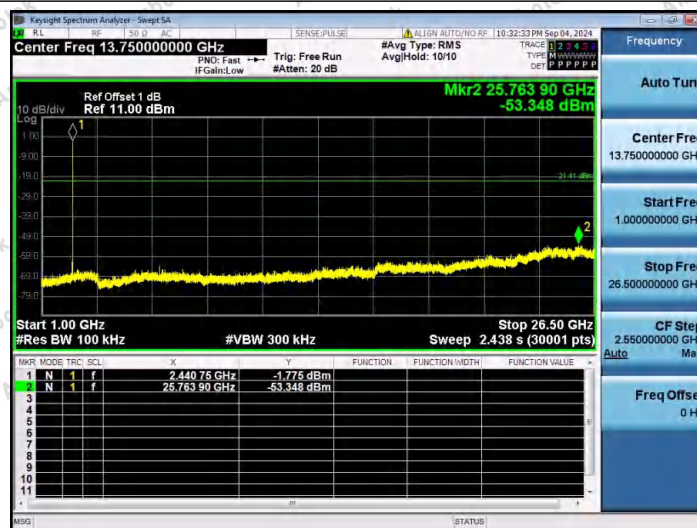




2DH5-Ant1-2441-0~Reference-PASS



2DH5-Ant1-2441-30~1000-PASS



2DH5-Ant1-2441-1000~26500-PASS

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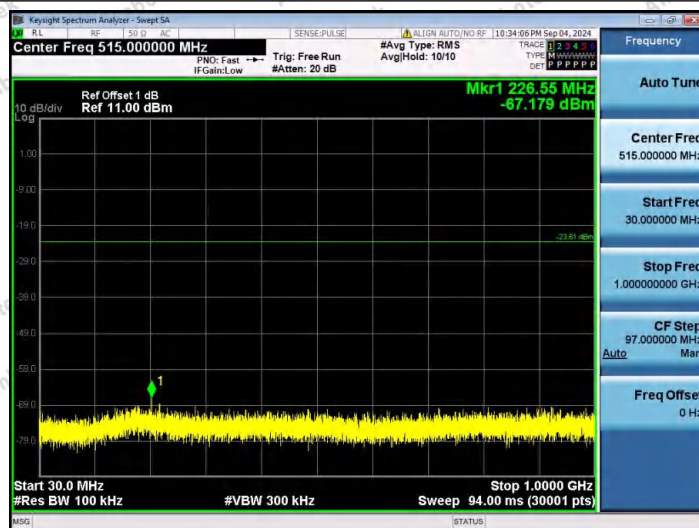


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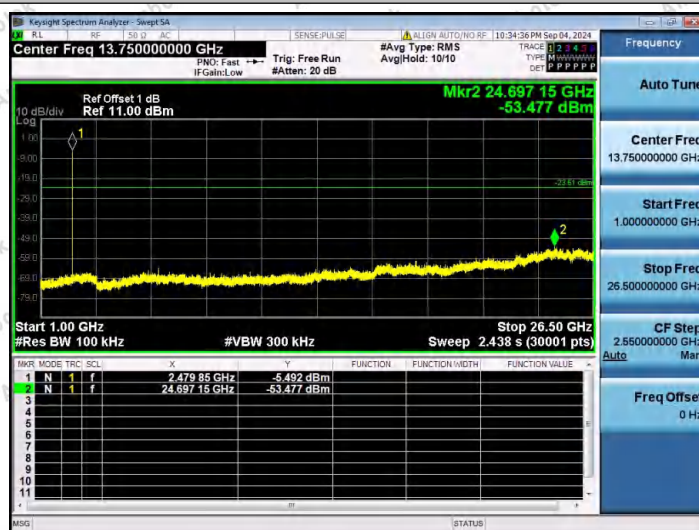




2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS



2DH5-Ant1-2480-1000~26500-PASS

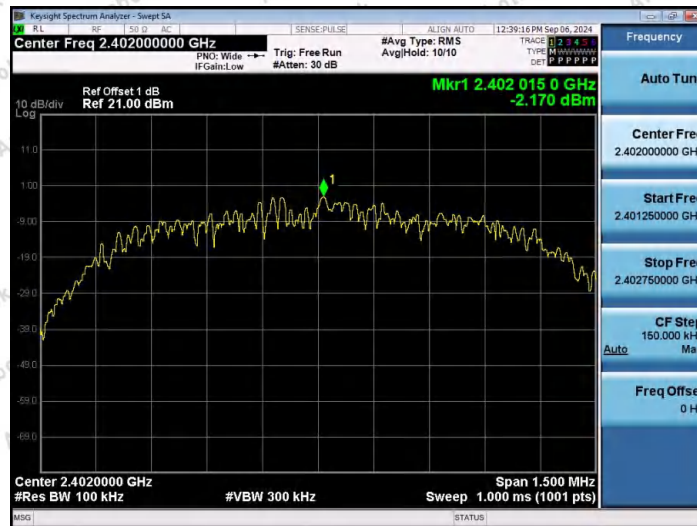
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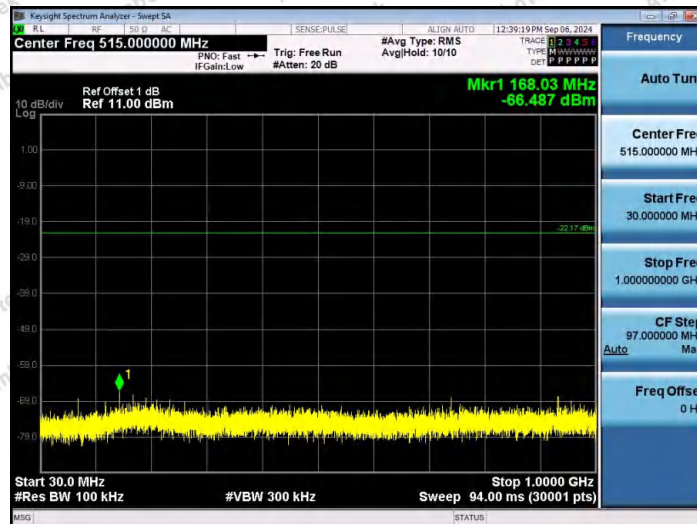


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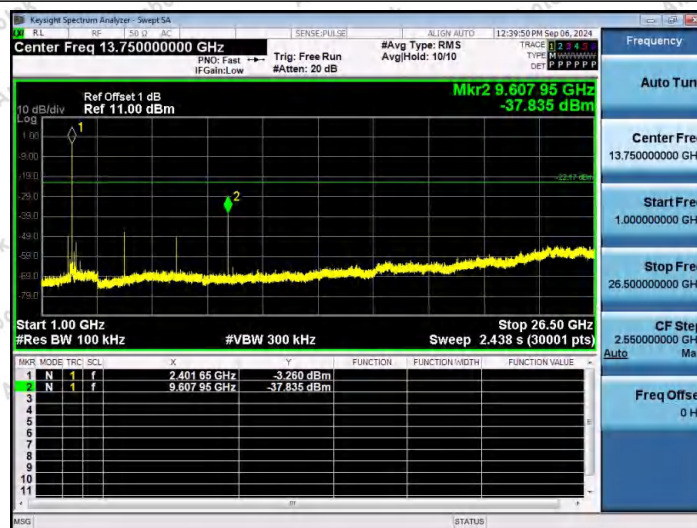




3DH5-Ant1-2402-0~Reference-PASS



3DH5-Ant1-2402-30~1000-PASS



3DH5-Ant1-2402-1000~26500-PASS

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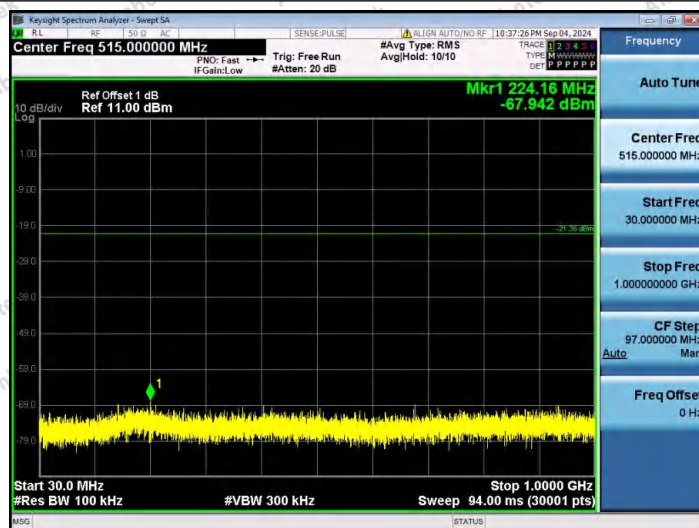


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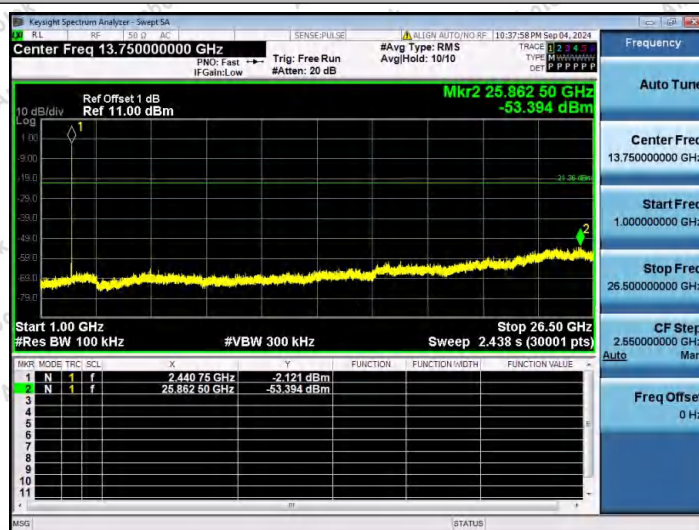




3DH5-Ant1-2441-0~Reference-PASS



3DH5-Ant1-2441-30~1000-PASS

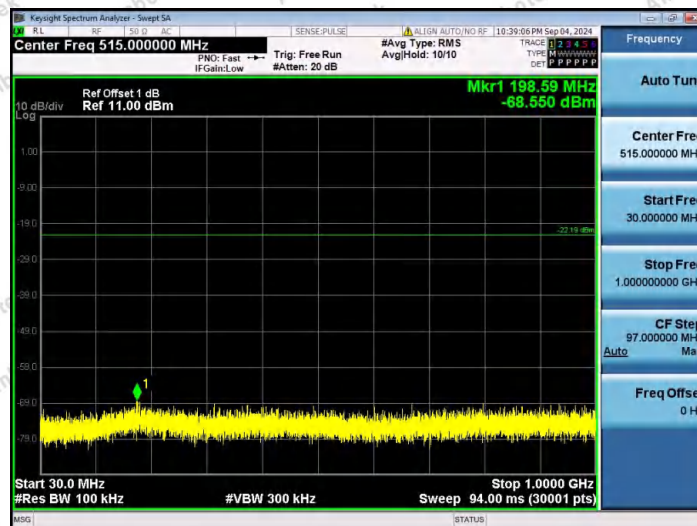


3DH5-Ant1-2441-1000~26500-PASS

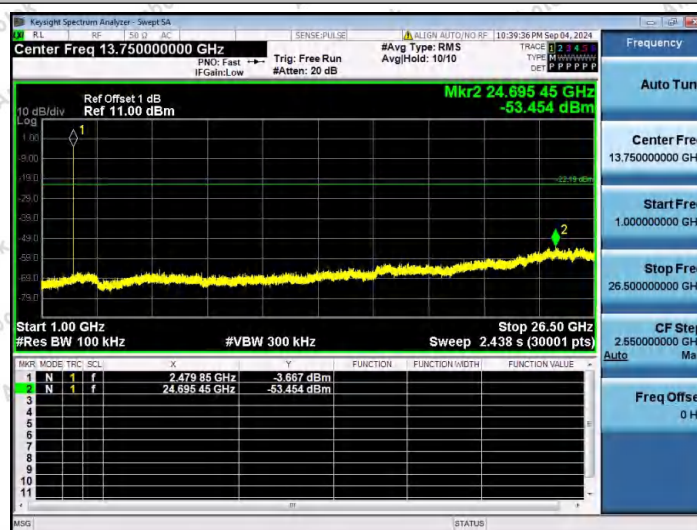




3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



3DH5-Ant1-2480-1000~26500-PASS



Appendix I: Duty Cycle

Test Result

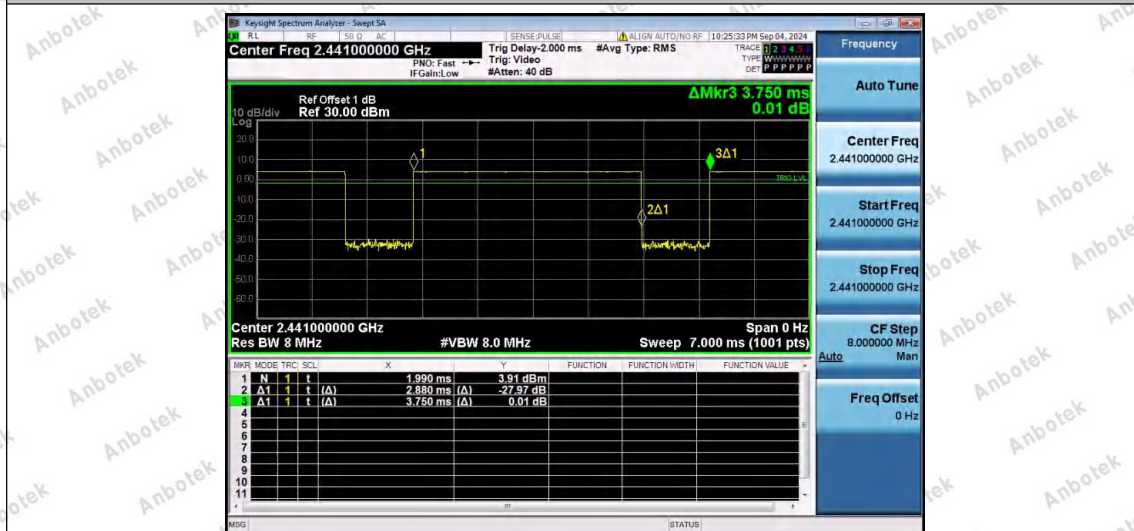
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.74	77.01	1.13
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.74	77.01	1.13
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.88	3.75	76.80	1.15
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13



Test Graphs



NTNV-DH5-Ant1-2402



NTNV-DH5-Ant1-2441



NTNV-DH5-Ant1-2480

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NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480





NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

---End---

