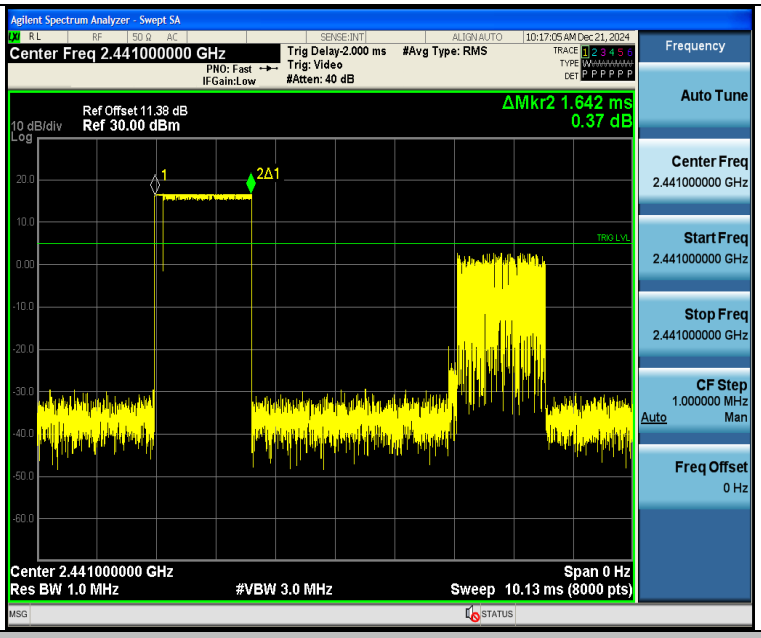
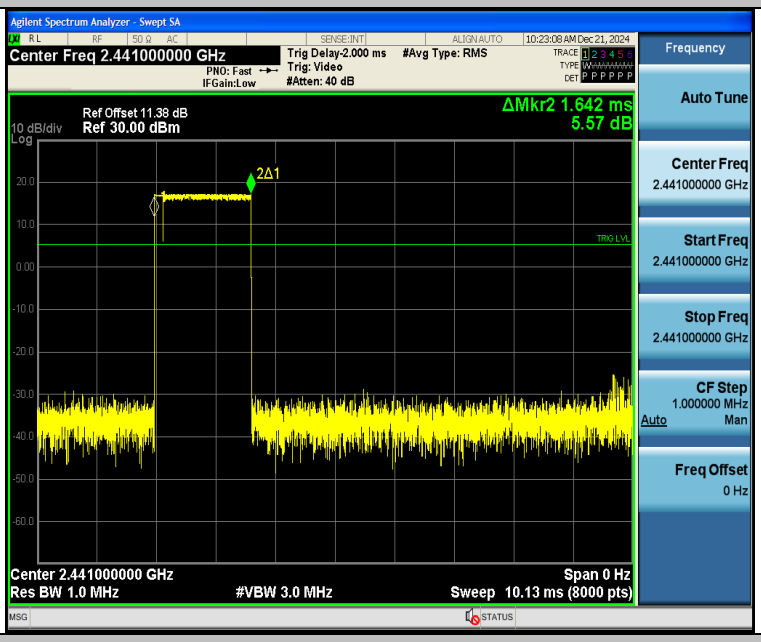
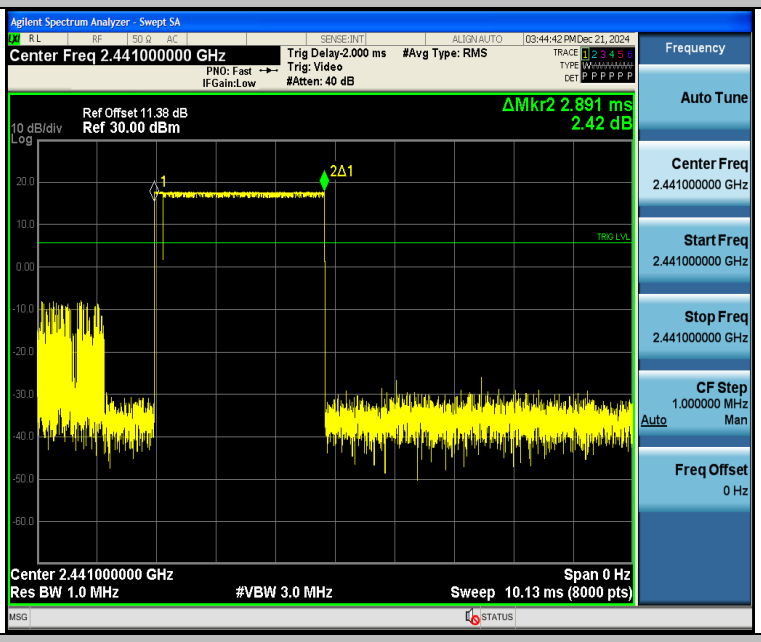


2DH3-Ant2-Hop-PASS



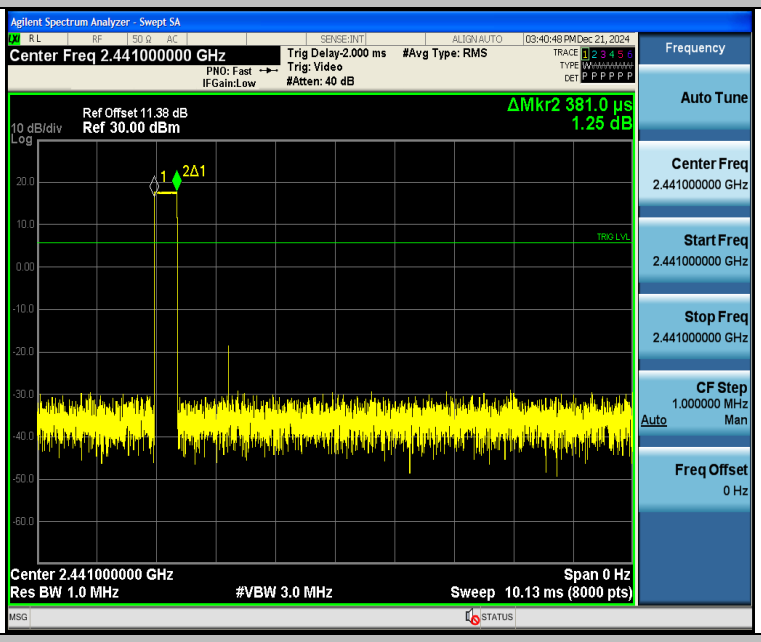
3DH3-Ant2-Hop-PASS

DH5-Ant3-Hop-PASS



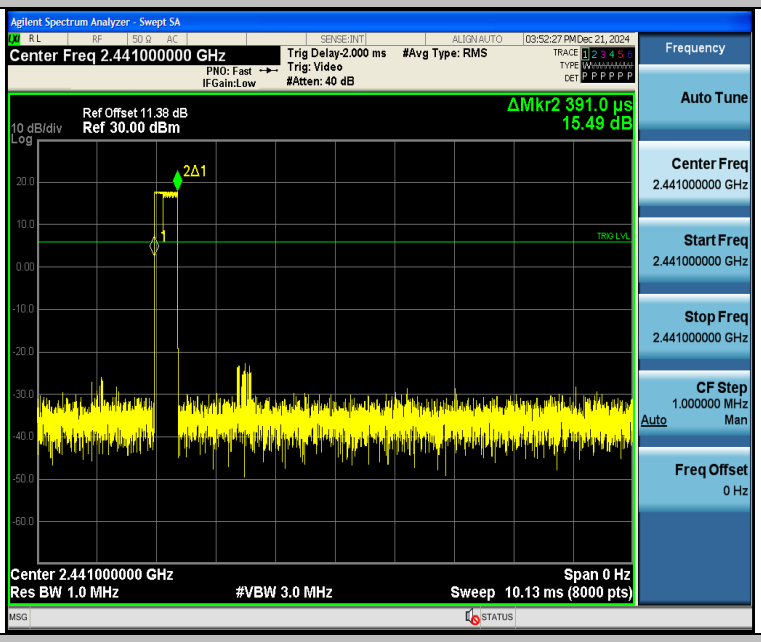
2DH5-Ant3-Hop-PASS

3DH5-Ant3-Hop-PASS

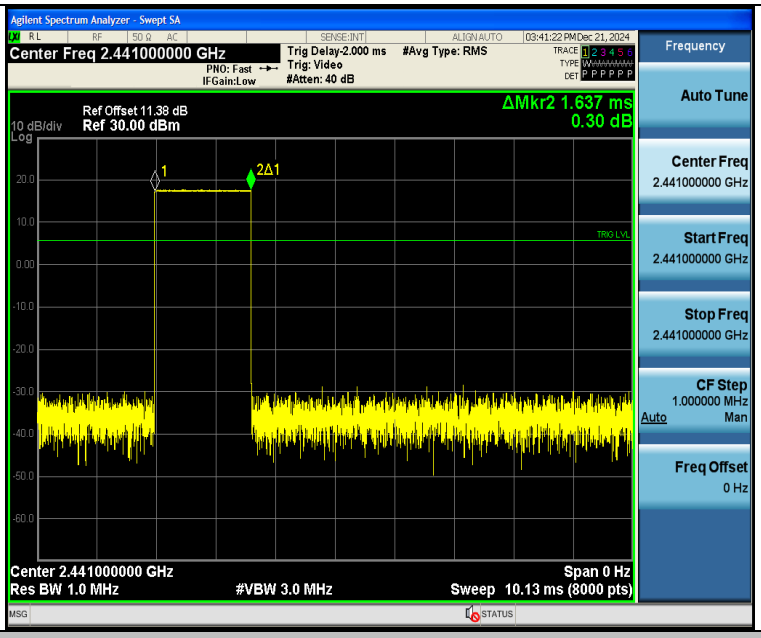


DH1-Ant3-Hop-PASS

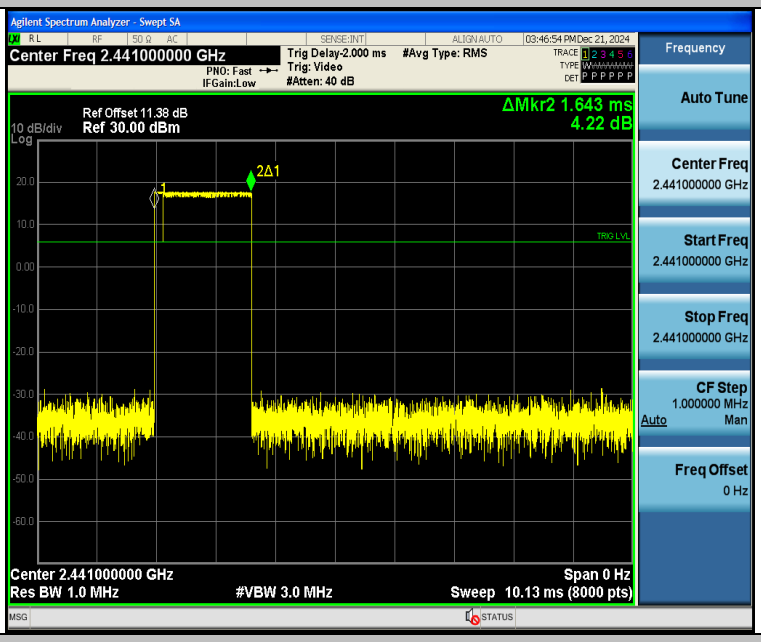
2DH1-Ant3-Hop-PASS



3DH1-Ant3-Hop-PASS

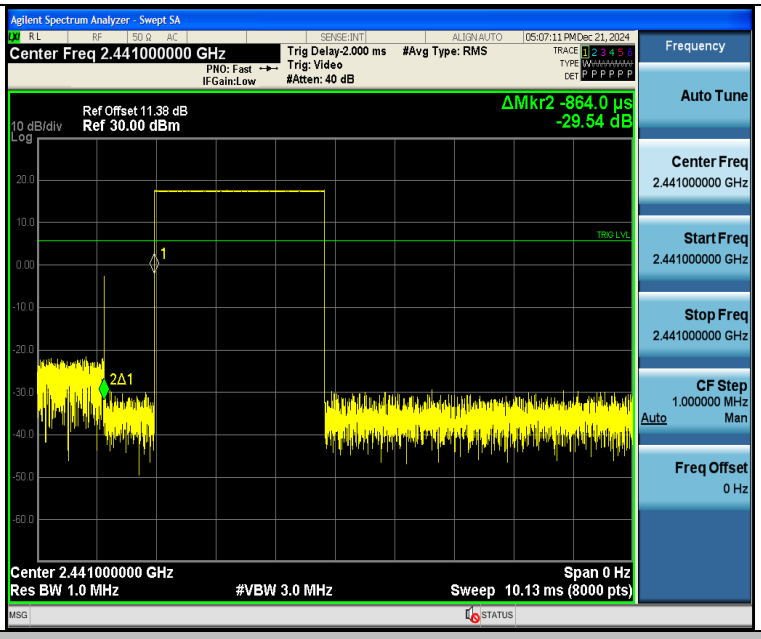


DH3-Ant3-Hop-PASS



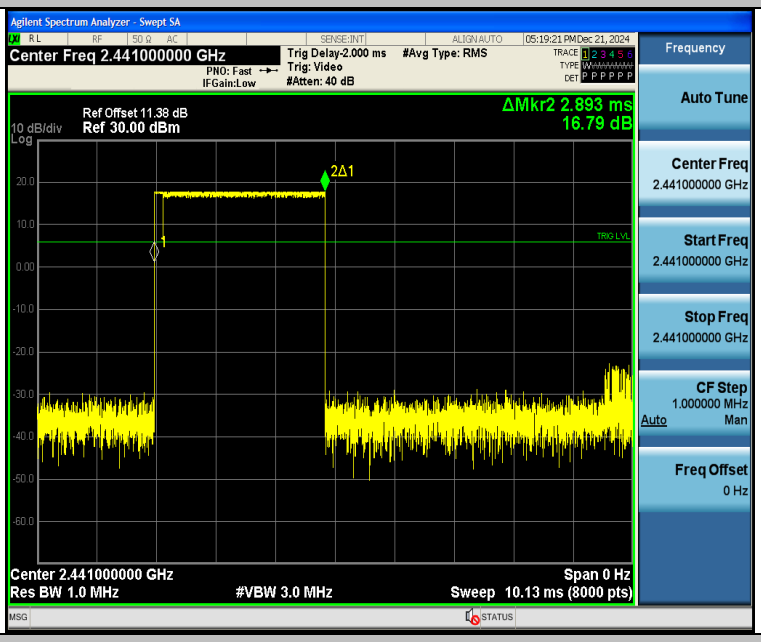
2DH3-Ant3-Hop-PASS

3DH3-Ant3-Hop-PASS

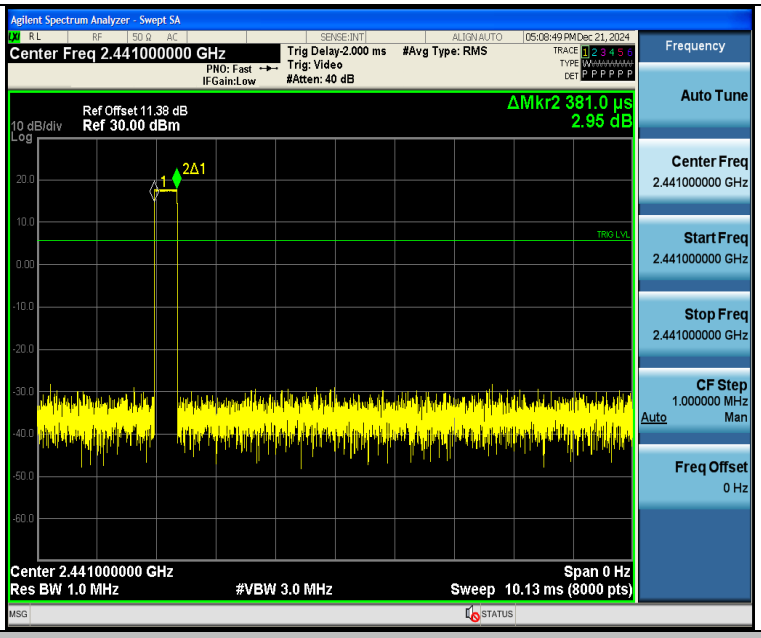


DH5-Ant4-Hop-PASS

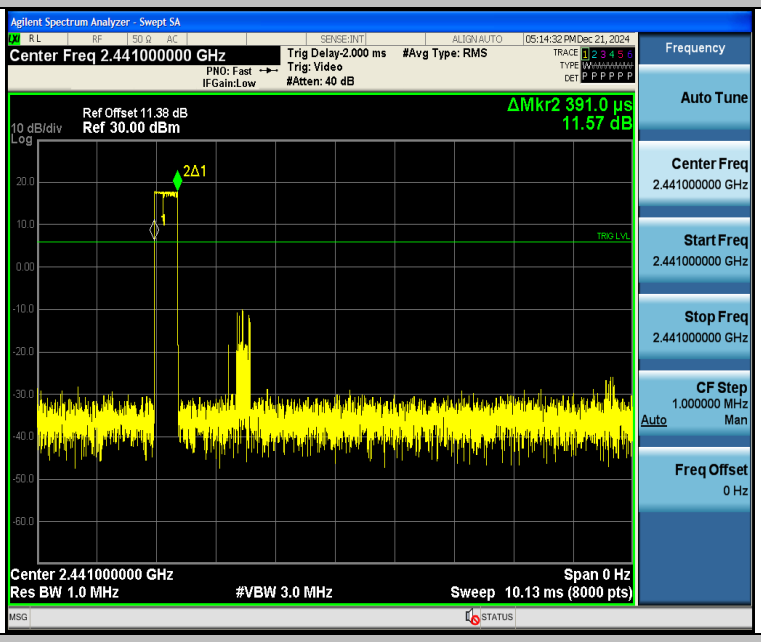
2DH5-Ant4-Hop-PASS



3DH5-Ant4-Hop-PASS

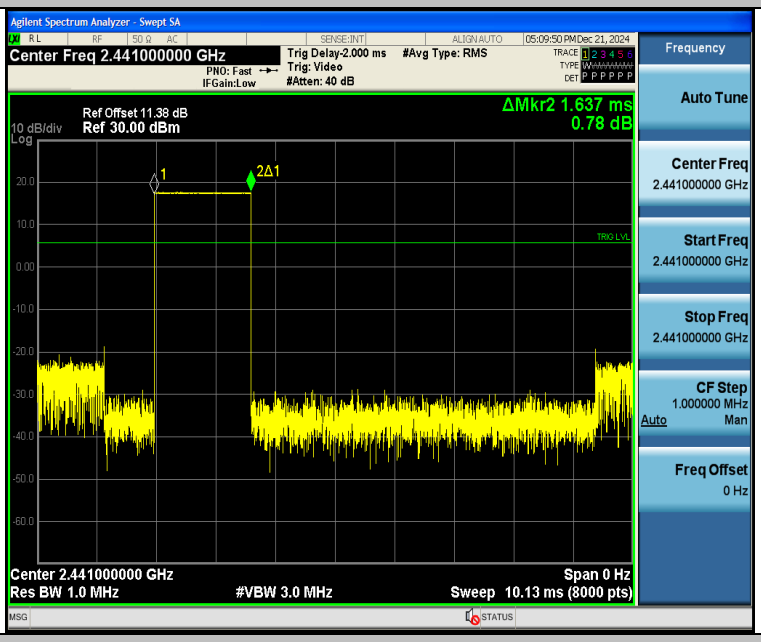


DH1-Ant4-Hop-PASS

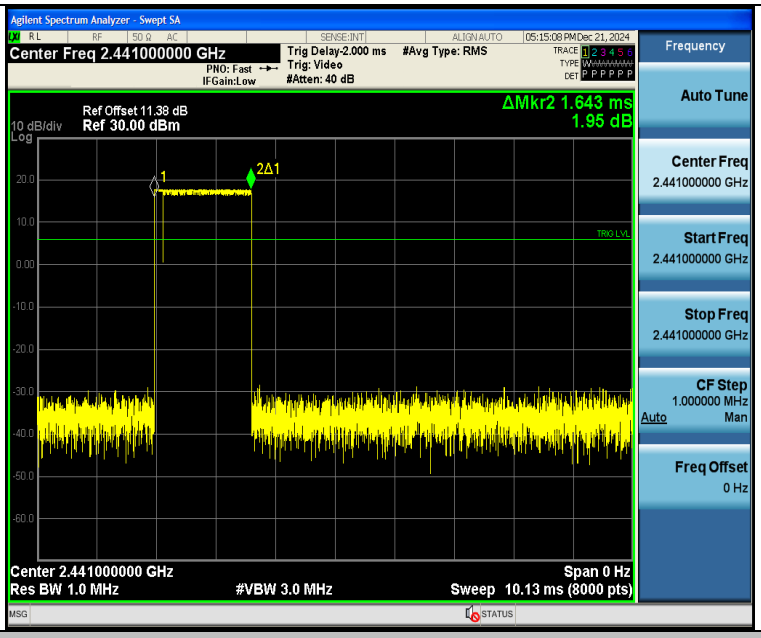


2DH1-Ant4-Hop-PASS

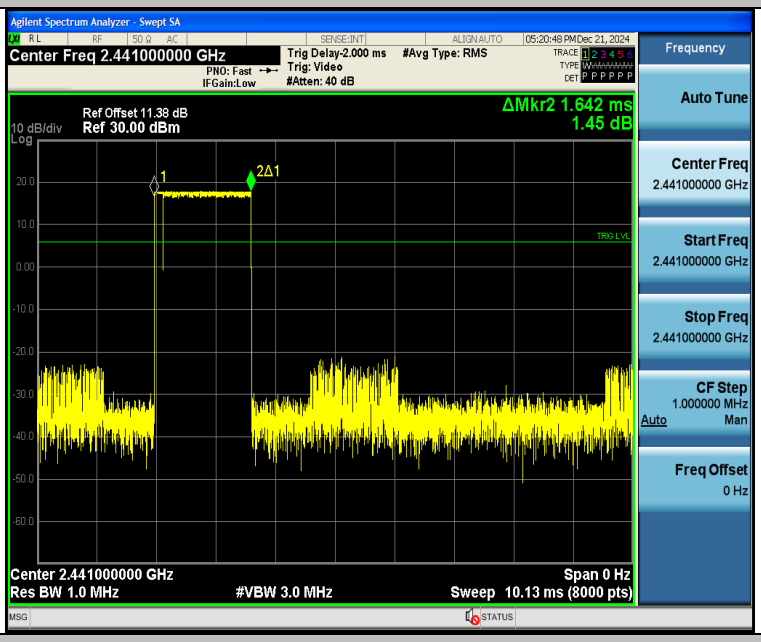
3DH1-Ant4-Hop-PASS



DH3-Ant4-Hop-PASS



2DH3-Ant4-Hop-PASS



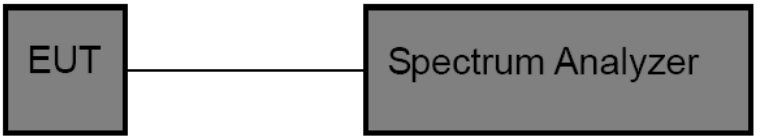
3DH3-Ant4-Hop-PASS

13 100kHz Bandwidth of Frequency Band Edge Requirement

13.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

13.2 Test Setup



13.3 Test Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

1. Set the RBW = 100kHz.

2. Set the VBW = 300kHz.

3. Sweep time = auto couple.

4. Detector function = peak.

5. Trace mode = max hold.

6. Allow trace to fully stabilize.

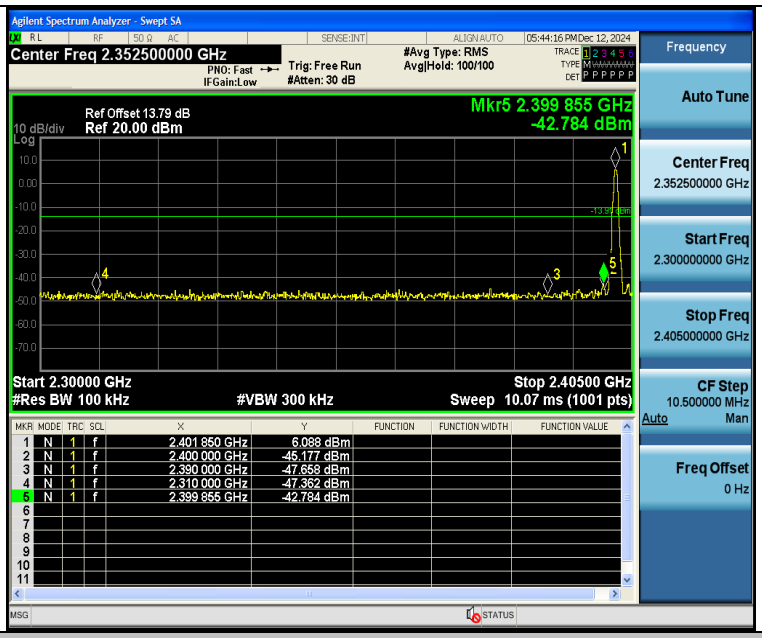
13.4 Test Data

Test Item	:	Band edge	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V	Temperature	:	24.5℃
Test Result	:	PASS	Humidity	:	55%RH

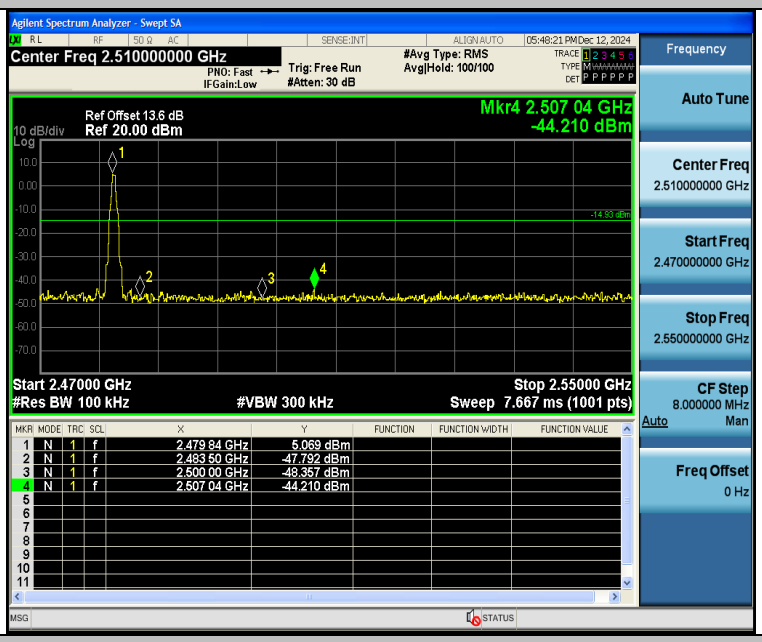
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.09	-42.78	≤-13.91	PASS
DH5	Ant1	High	2480	5.07	-44.21	≤-14.93	PASS
DH5	Ant1	Low	Hop_2402	7.37	-44.56	≤-12.63	PASS
DH5	Ant1	High	Hop_2480	7.16	-43.36	≤-12.84	PASS
2DH5	Ant1	Low	2402	7.24	-42.9	≤-12.76	PASS
2DH5	Ant1	High	2480	3.83	-44.24	≤-16.17	PASS
2DH5	Ant1	Low	Hop_2402	5.79	-44.61	≤-14.21	PASS
2DH5	Ant1	High	Hop_2480	8.24	-43.76	≤-11.76	PASS
3DH5	Ant1	Low	2402	7.43	-43.39	≤-12.57	PASS
3DH5	Ant1	High	2480	6.49	-44.73	≤-13.51	PASS
3DH5	Ant1	Low	Hop_2402	6.56	-43.75	≤-13.45	PASS
3DH5	Ant1	High	Hop_2480	8.33	-44.08	≤-11.67	PASS
DH5	Ant2	Low	2402	7.29	-45.63	≤-12.71	PASS
DH5	Ant2	High	2480	6.70	-45.9	≤-13.3	PASS
DH5	Ant2	Low	Hop_2402	7.11	-45.77	≤-12.89	PASS
DH5	Ant2	High	Hop_2480	11.31	-44.64	≤-8.69	PASS
2DH5	Ant2	Low	2402	5.42	-45.29	≤-14.58	PASS
2DH5	Ant2	High	2480	6.10	-45.7	≤-13.9	PASS
2DH5	Ant2	Low	Hop_2402	5.24	-45.33	≤-14.76	PASS
2DH5	Ant2	High	Hop_2480	8.62	-44.44	≤-11.38	PASS
3DH5	Ant2	Low	2402	5.29	-43.69	≤-14.71	PASS
3DH5	Ant2	High	2480	6.11	-45.76	≤-13.89	PASS
3DH5	Ant2	Low	Hop_2402	5.04	-45.44	≤-14.96	PASS
3DH5	Ant2	High	Hop_2480	6.10	-44.72	≤-13.9	PASS
DH5	Ant3	Low	2402	7.46	-45.49	≤-12.54	PASS

DH5	Ant3	High	2480	6.72	-46.09	≤-13.28	PASS
DH5	Ant3	Low	Hop_2402	7.29	-45.84	≤-12.71	PASS
DH5	Ant3	High	Hop_2480	6.44	-45.27	≤-13.56	PASS
2DH5	Ant3	Low	2402	3.32	-44.62	≤-16.68	PASS
2DH5	Ant3	High	2480	6.13	-45.7	≤-13.87	PASS
2DH5	Ant3	Low	Hop_2402	3.42	-45.7	≤-16.58	PASS
2DH5	Ant3	High	Hop_2480	4.36	-44.87	≤-15.64	PASS
3DH5	Ant3	Low	2402	7.87	-45	≤-12.13	PASS
3DH5	Ant3	High	2480	5.29	-45.73	≤-14.71	PASS
3DH5	Ant3	Low	Hop_2402	1.11	-44.03	≤-18.89	PASS
3DH5	Ant3	High	Hop_2480	3.68	-44.94	≤-16.32	PASS
DH5	Ant4	Low	2402	7.63	-44.49	≤-12.37	PASS
DH5	Ant4	High	2480	6.69	-45.57	≤-13.31	PASS
DH5	Ant4	Low	Hop_2402	1.67	-45.07	≤-18.33	PASS
DH5	Ant4	High	Hop_2480	6.34	-44.88	≤-13.66	PASS
2DH5	Ant4	Low	2402	7.14	-44.48	≤-12.86	PASS
2DH5	Ant4	High	2480	5.71	-44.29	≤-14.29	PASS
2DH5	Ant4	Low	Hop_2402	-0.93	-45.51	≤-20.93	PASS
2DH5	Ant4	High	Hop_2480	4.58	-45.05	≤-15.42	PASS
3DH5	Ant4	Low	2402	7.68	-46.06	≤-12.32	PASS
3DH5	Ant4	High	2480	6.08	-45.29	≤-13.92	PASS
3DH5	Ant4	Low	Hop_2402	0.19	-45.67	≤-19.81	PASS
3DH5	Ant4	High	Hop_2480	3.72	-44.65	≤-16.28	PASS

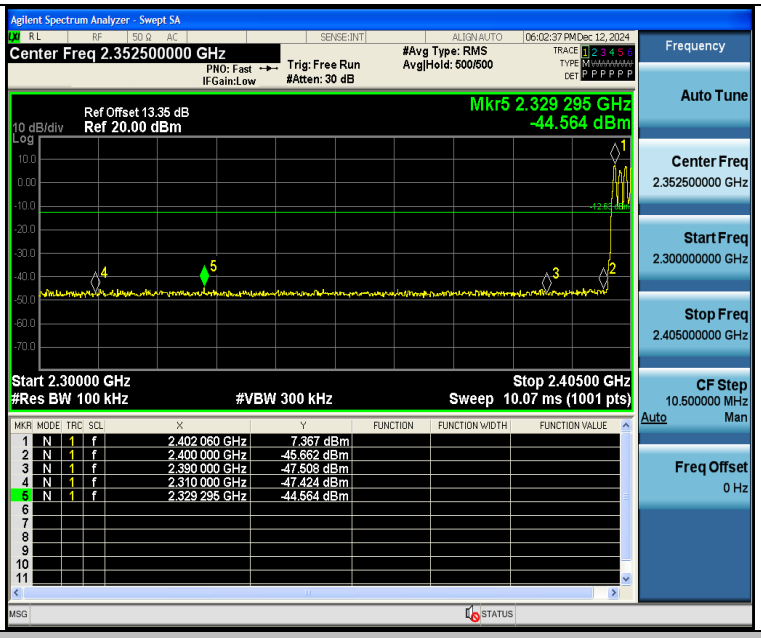
Test Graphs:



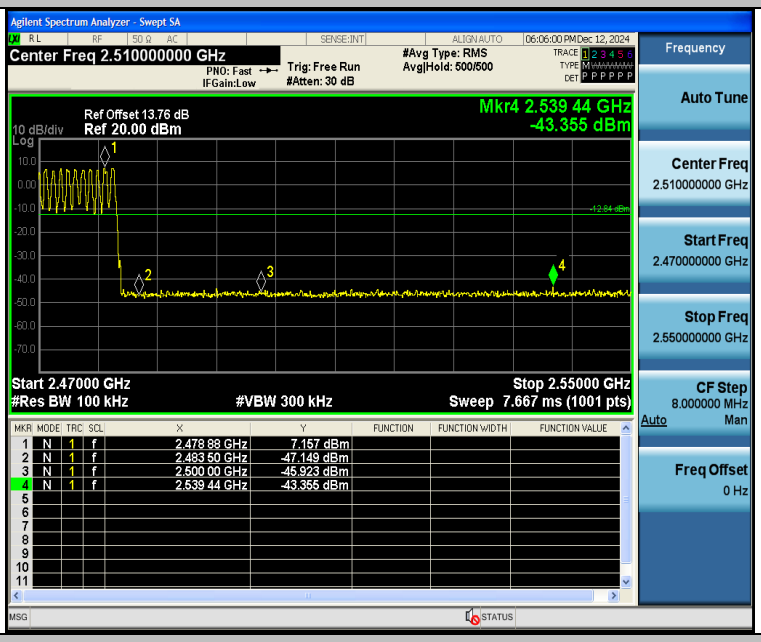
DH5-Ant1-2402-PASS



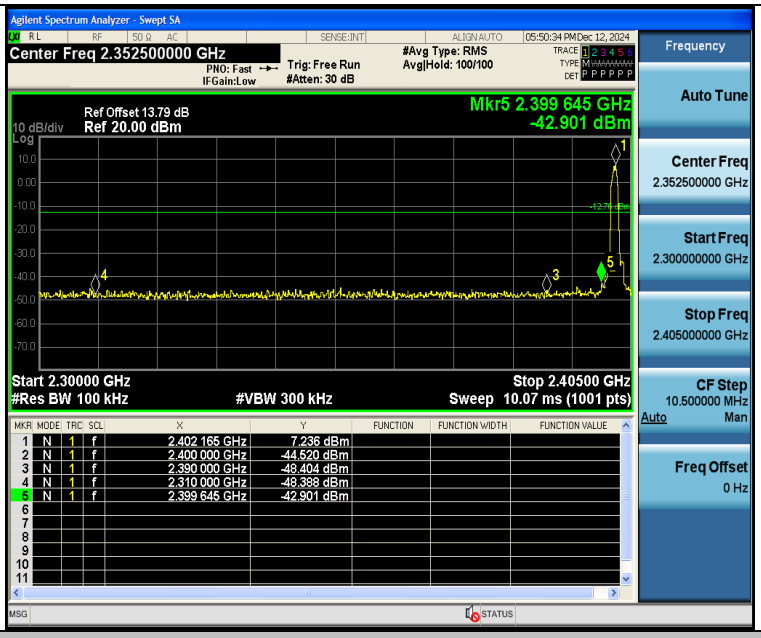
DH5-Ant1-2480-PASS



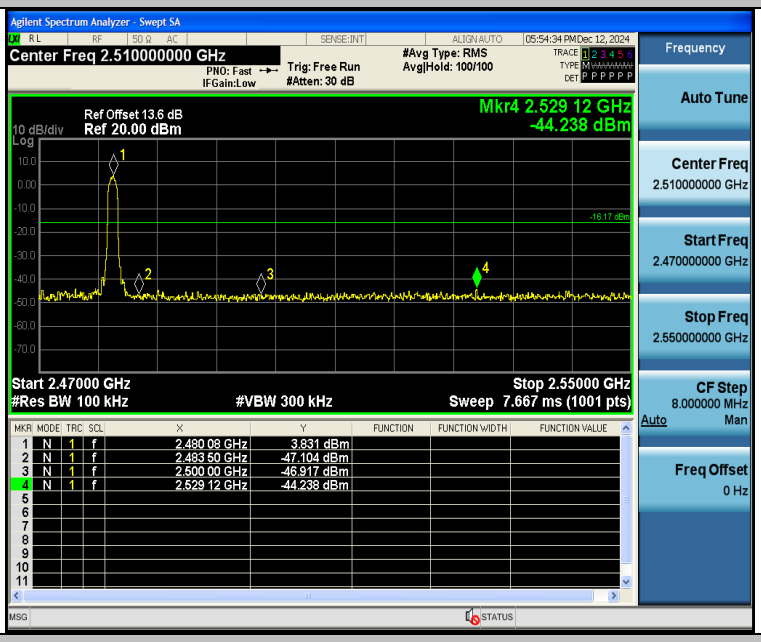
DH5-Ant1-Hop_2402-PASS



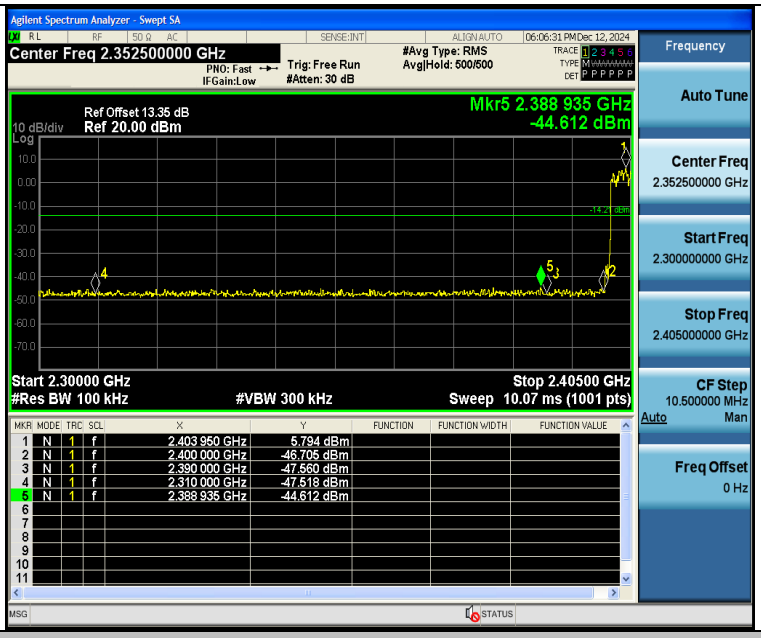
DH5-Ant1-Hop_2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



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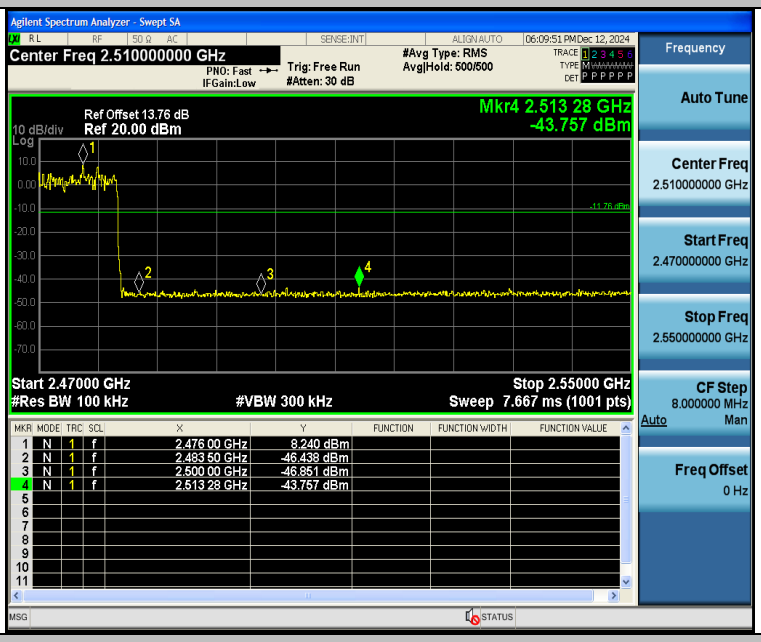
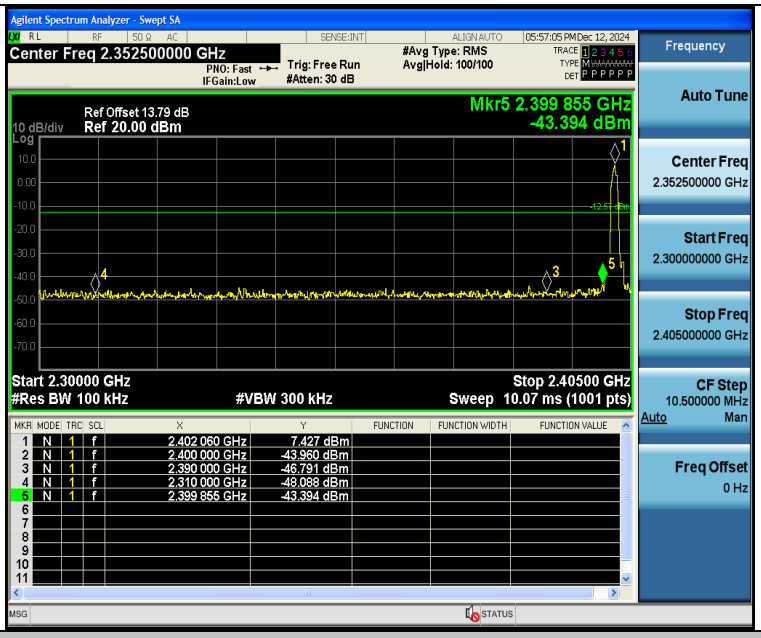
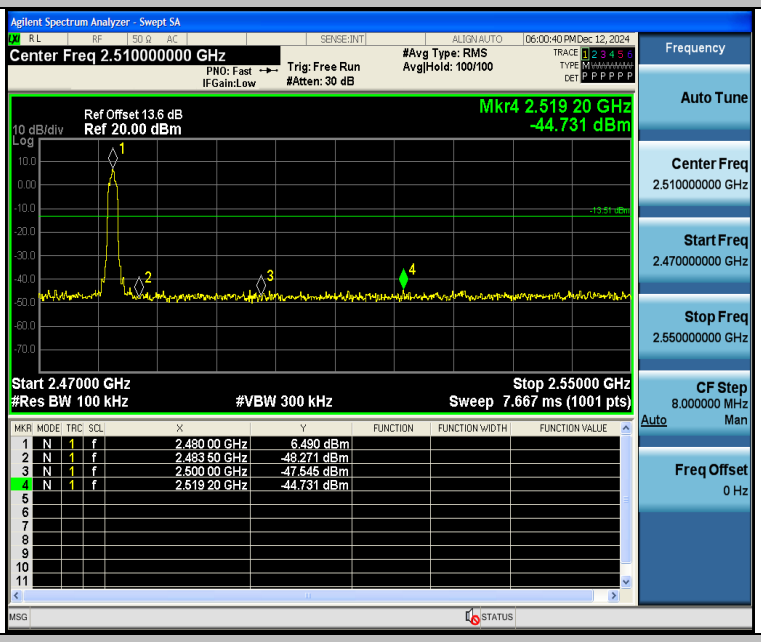


2DH5-Ant1-Hop_2480-PASS



3DH5-Ant1-2402-PASS



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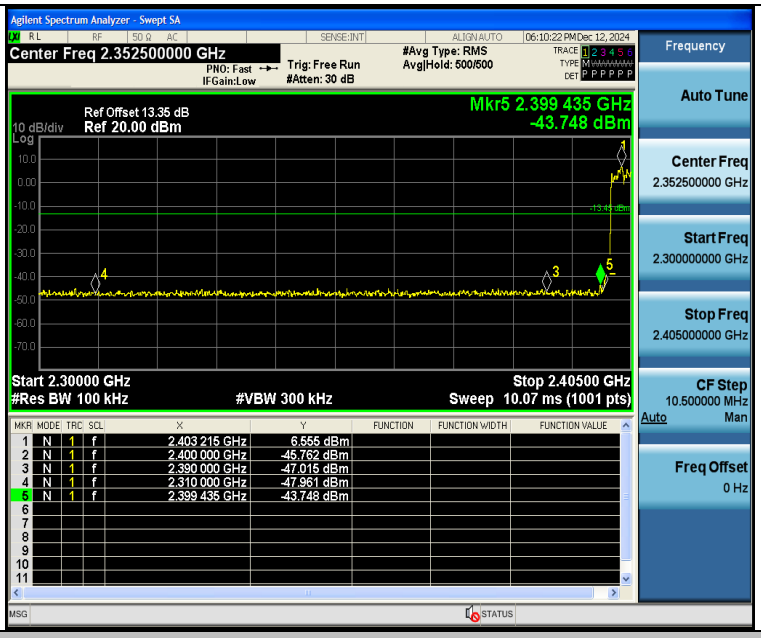
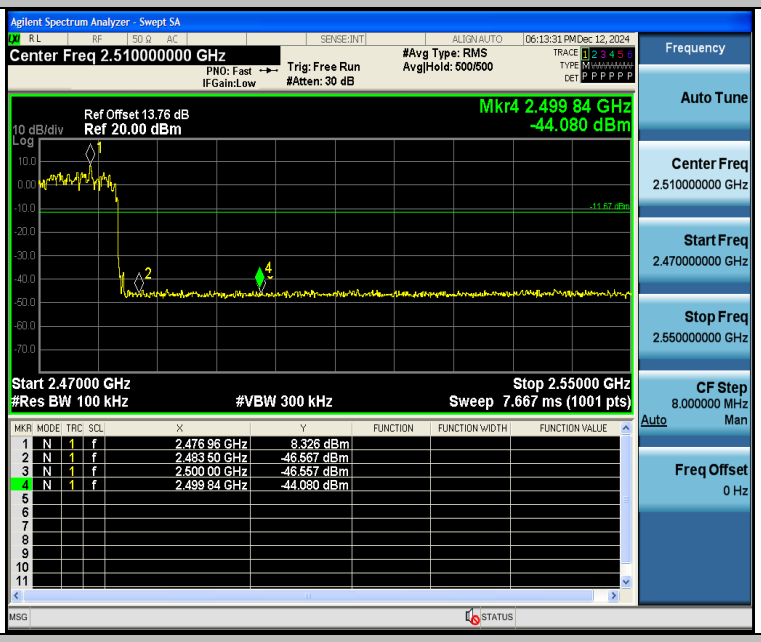
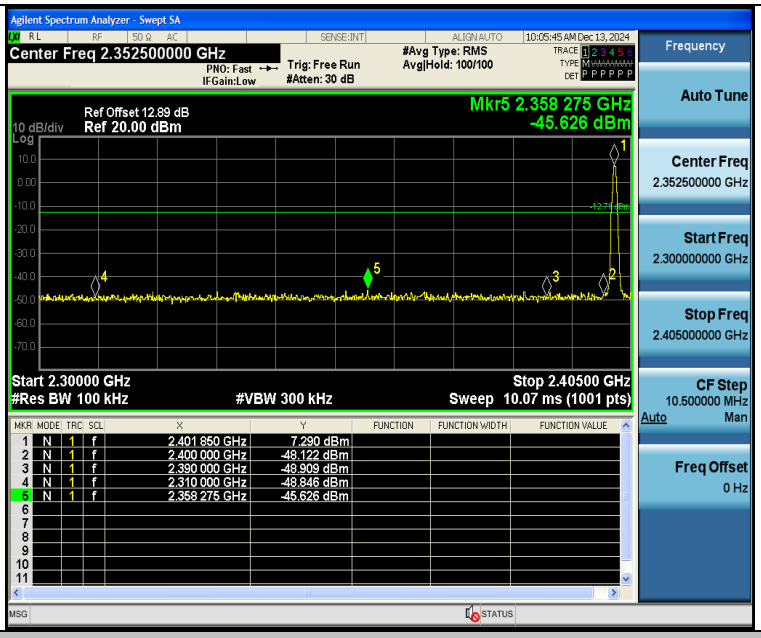


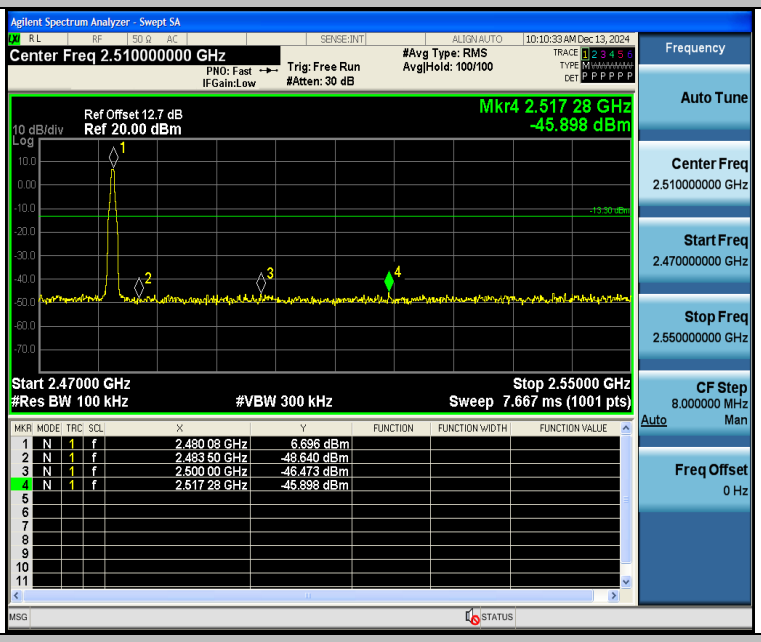
3DH5-Ant1-Hop_2402-PASS



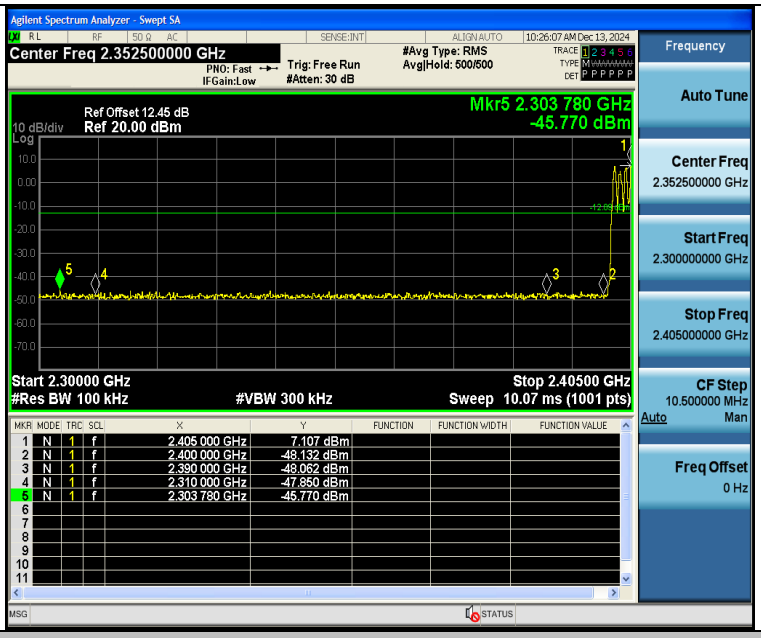
3DH5-Ant1-Hop_2480-PASS



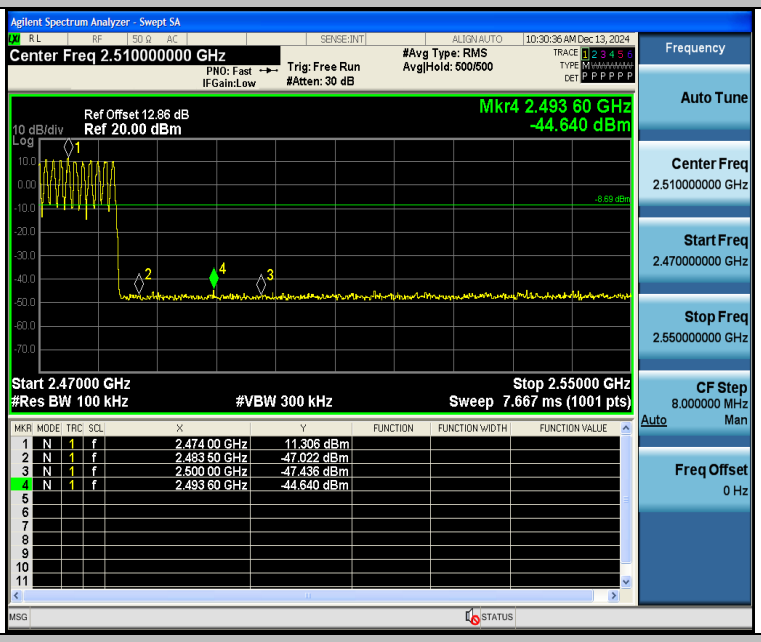
DH5-Ant2-2402-PASS



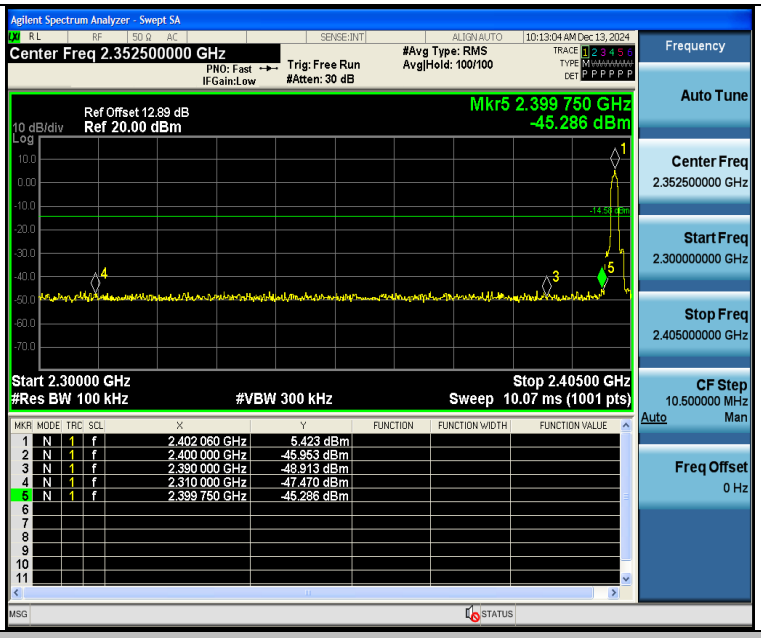
DH5-Ant2-2480-PASS



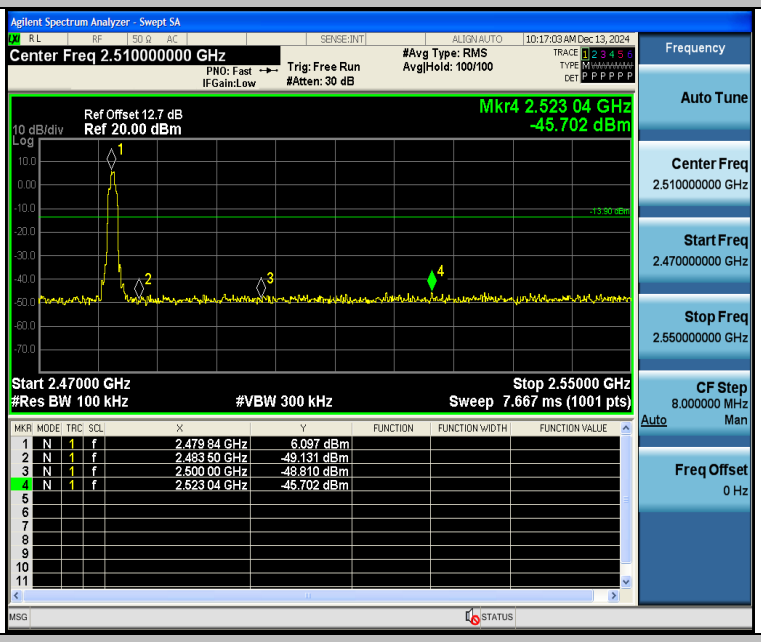
DH5-Ant2-Hop_2402-PASS



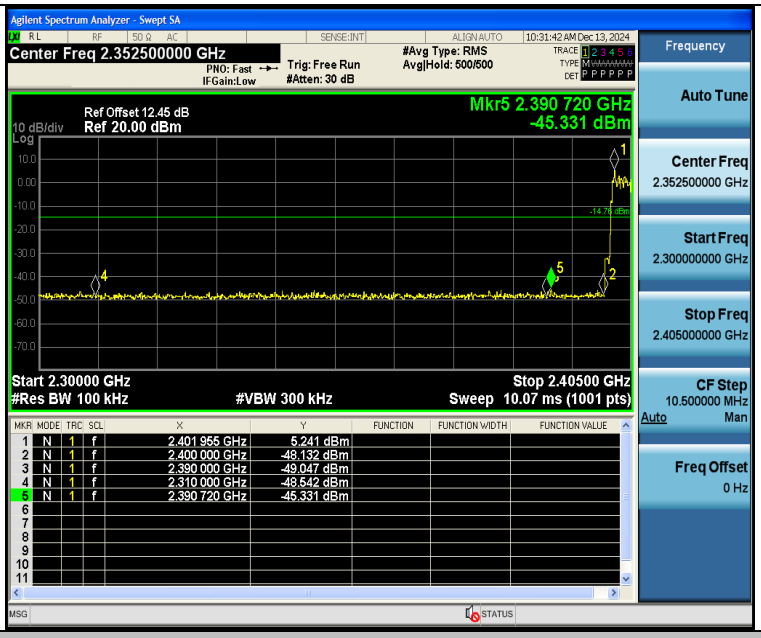
DH5-Ant2-Hop_2480-PASS



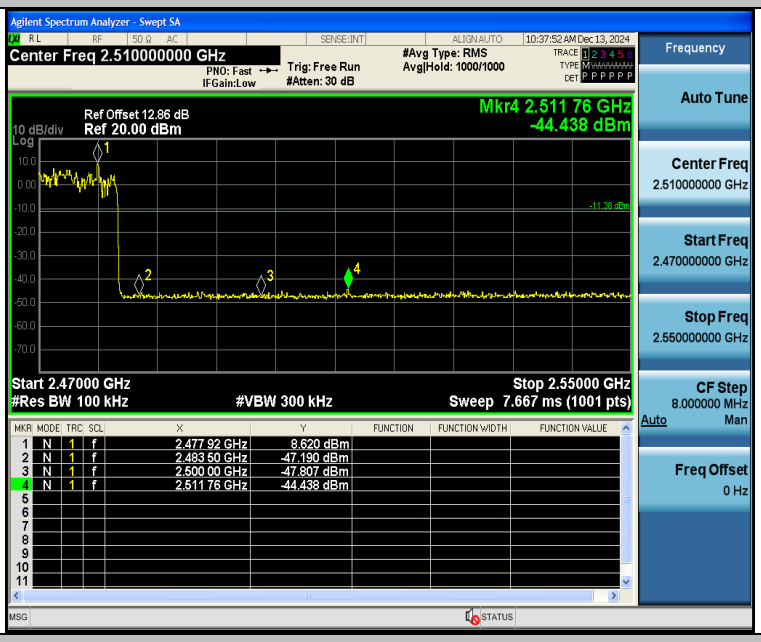
2DH5-Ant2-2402-PASS



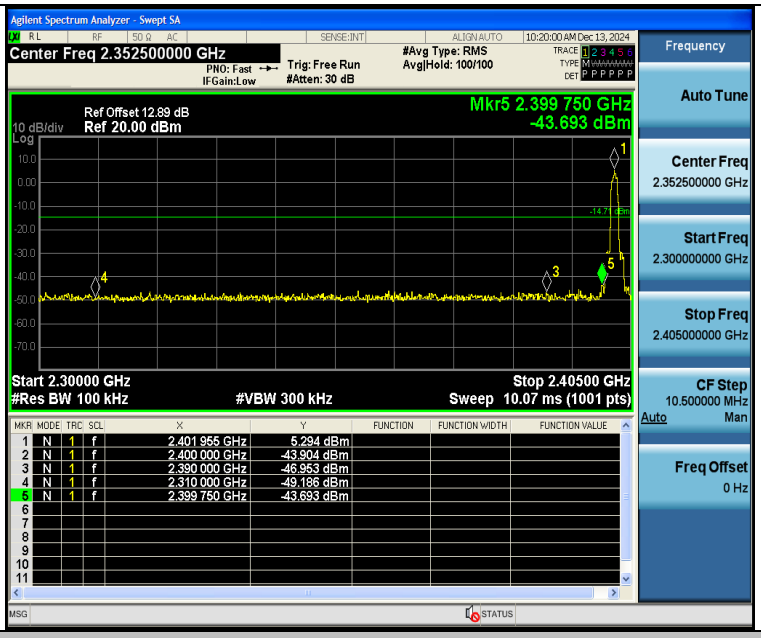
2DH5-Ant2-2480-PASS



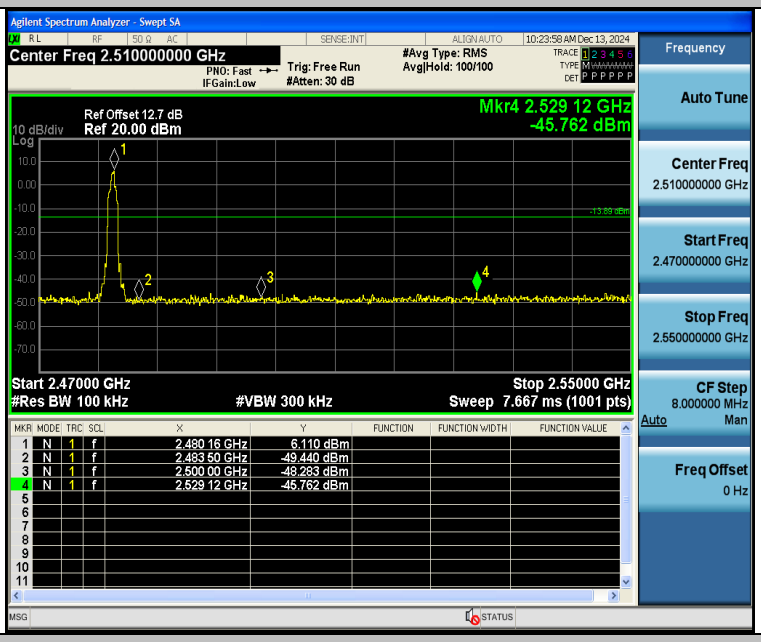
2DH5-Ant2-Hop_2402-PASS



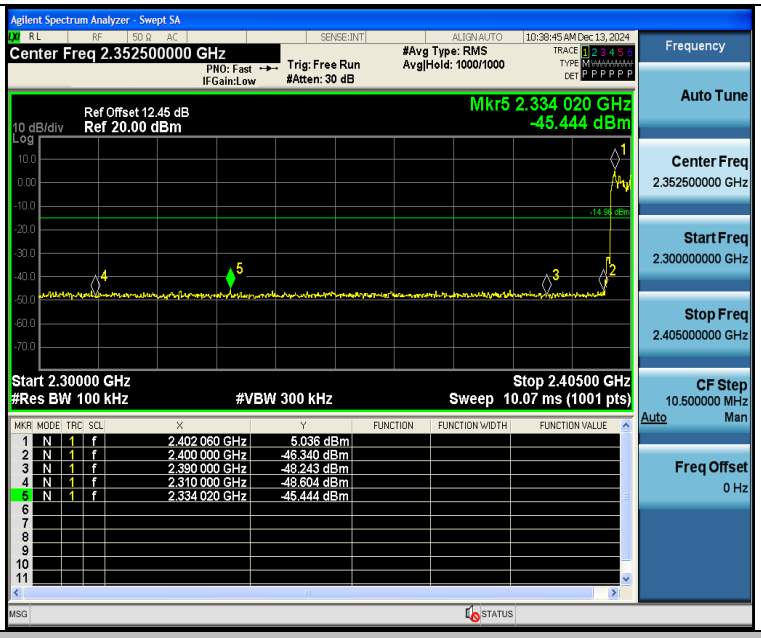
2DH5-Ant2-Hop_2480-PASS



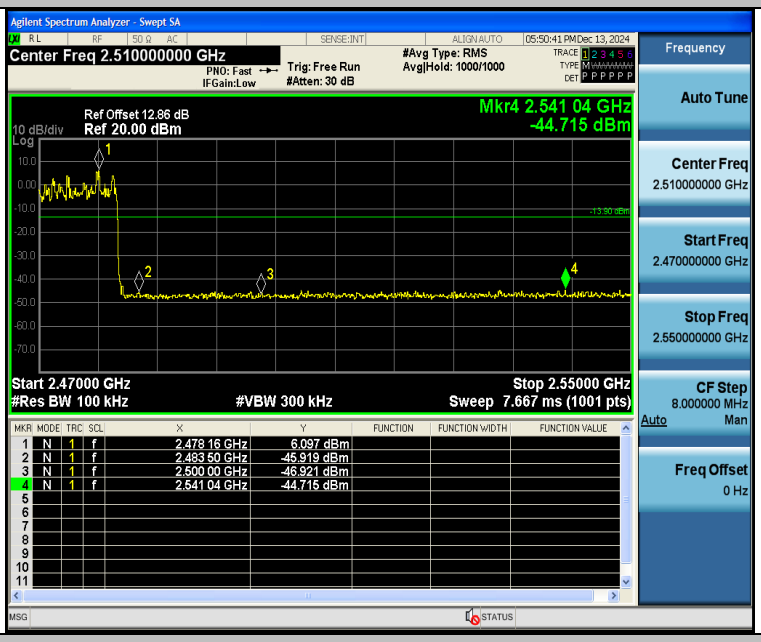
3DH5-Ant2-2402-PASS



3DH5-Ant2-2480-PASS



3DH5-Ant2-Hop_2402-PASS



3DH5-Ant2-Hop_2480-PASS

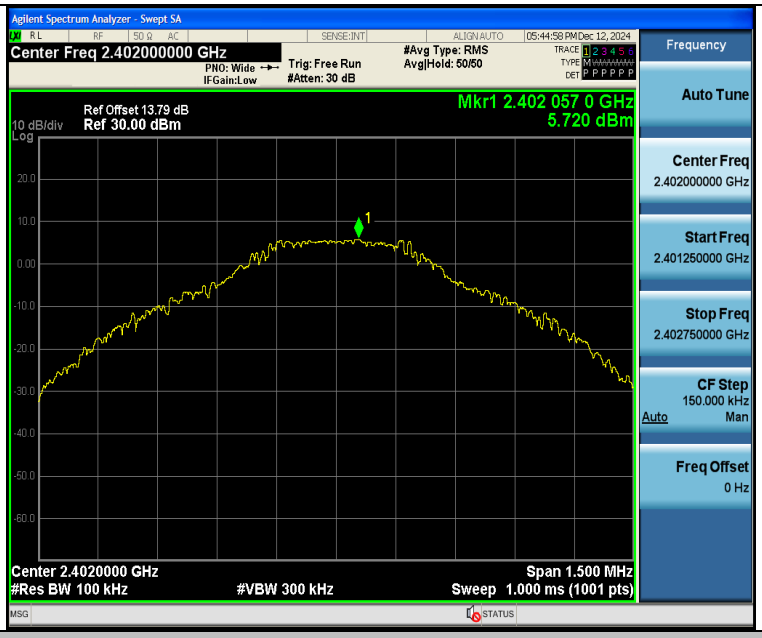
Conducted Emission Method

Test Result

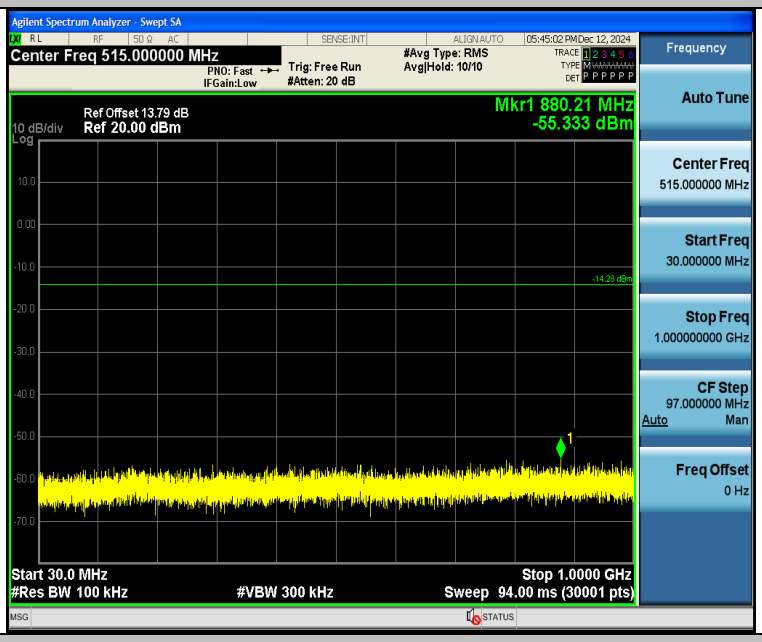
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	5.72	5.72	---	PASS
DH5	Ant1	2402	30~1000	5.72	-55.33	≤-14.28	PASS
DH5	Ant1	2402	1000~26500	5.72	-39.14	≤-14.28	PASS
DH5	Ant1	2441	0~Reference	5.30	5.30	---	PASS
DH5	Ant1	2441	30~1000	5.30	-55.93	≤-14.7	PASS
DH5	Ant1	2441	1000~26500	5.30	-39.08	≤-14.7	PASS
DH5	Ant1	2480	0~Reference	4.95	4.95	---	PASS
DH5	Ant1	2480	30~1000	4.95	-56.09	≤-15.05	PASS
DH5	Ant1	2480	1000~26500	4.95	-40.32	≤-15.05	PASS
2DH5	Ant1	2402	0~Reference	6.49	6.49	---	PASS
2DH5	Ant1	2402	30~1000	6.49	-54.91	≤-13.51	PASS
2DH5	Ant1	2402	1000~26500	6.49	-39.02	≤-13.51	PASS
2DH5	Ant1	2441	0~Reference	6.16	6.16	---	PASS
2DH5	Ant1	2441	30~1000	6.16	-55.54	≤-13.84	PASS
2DH5	Ant1	2441	1000~26500	6.16	-39.72	≤-13.84	PASS
2DH5	Ant1	2480	0~Reference	4.69	4.69	---	PASS
2DH5	Ant1	2480	30~1000	4.69	-55.98	≤-15.31	PASS
2DH5	Ant1	2480	1000~26500	4.69	-40.04	≤-15.31	PASS
3DH5	Ant1	2402	0~Reference	4.87	4.87	---	PASS
3DH5	Ant1	2402	30~1000	4.87	-55.17	≤-15.13	PASS
3DH5	Ant1	2402	1000~26500	4.87	-39.92	≤-15.13	PASS
3DH5	Ant1	2441	0~Reference	5.72	5.72	---	PASS
3DH5	Ant1	2441	30~1000	5.72	-55.52	≤-14.28	PASS
3DH5	Ant1	2441	1000~26500	5.72	-39.39	≤-14.28	PASS
3DH5	Ant1	2480	0~Reference	6.09	6.09	---	PASS
3DH5	Ant1	2480	30~1000	6.09	-55.29	≤-13.91	PASS
3DH5	Ant1	2480	1000~26500	6.09	-39.78	≤-13.91	PASS

DH5	Ant2	2402	0~Reference	7.12	7.12	---	PASS
DH5	Ant2	2402	30~1000	7.12	-56.7	≤-12.88	PASS
DH5	Ant2	2402	1000~26500	7.12	-40.76	≤-12.88	PASS
DH5	Ant2	2441	0~Reference	8.15	8.15	---	PASS
DH5	Ant2	2441	30~1000	8.15	-57.02	≤-11.85	PASS
DH5	Ant2	2441	1000~26500	8.15	-41.27	≤-11.85	PASS
DH5	Ant2	2480	0~Reference	6.21	6.21	---	PASS
DH5	Ant2	2480	30~1000	6.21	-56.72	≤-13.79	PASS
DH5	Ant2	2480	1000~26500	6.21	-41.64	≤-13.79	PASS
2DH5	Ant2	2402	0~Reference	7.60	7.60	---	PASS
2DH5	Ant2	2402	30~1000	7.60	-56.58	≤-12.4	PASS
2DH5	Ant2	2402	1000~26500	7.60	-41.39	≤-12.4	PASS
2DH5	Ant2	2441	0~Reference	5.12	5.12	---	PASS
2DH5	Ant2	2441	30~1000	5.12	-56.93	≤-14.88	PASS
2DH5	Ant2	2441	1000~26500	5.12	-40.89	≤-14.88	PASS
2DH5	Ant2	2480	0~Reference	4.82	4.82	---	PASS
2DH5	Ant2	2480	30~1000	4.82	-56.95	≤-15.18	PASS
2DH5	Ant2	2480	1000~26500	4.82	-41.24	≤-15.18	PASS
3DH5	Ant2	2402	0~Reference	7.49	7.49	---	PASS
3DH5	Ant2	2402	30~1000	7.49	-56.33	≤-12.51	PASS
3DH5	Ant2	2402	1000~26500	7.49	-40.82	≤-12.51	PASS
3DH5	Ant2	2441	0~Reference	8.81	8.81	---	PASS
3DH5	Ant2	2441	30~1000	8.81	-55.5	≤-11.19	PASS
3DH5	Ant2	2441	1000~26500	8.81	-41.34	≤-11.19	PASS
3DH5	Ant2	2480	0~Reference	1.59	1.59	---	PASS
3DH5	Ant2	2480	30~1000	1.59	-56.82	≤-18.41	PASS
3DH5	Ant2	2480	1000~26500	1.59	-40.25	≤-18.41	PASS

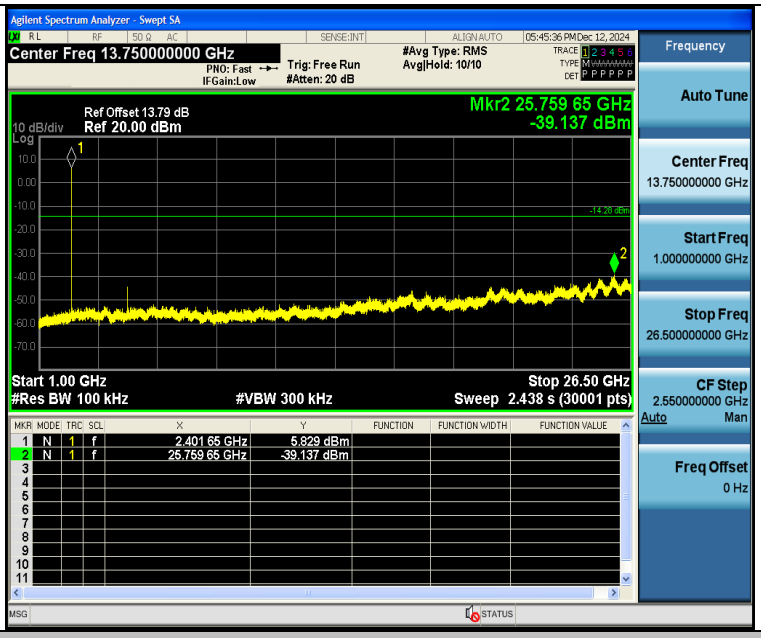
Test Graphs:



DH5-Ant1-2402-0~Reference-PASS

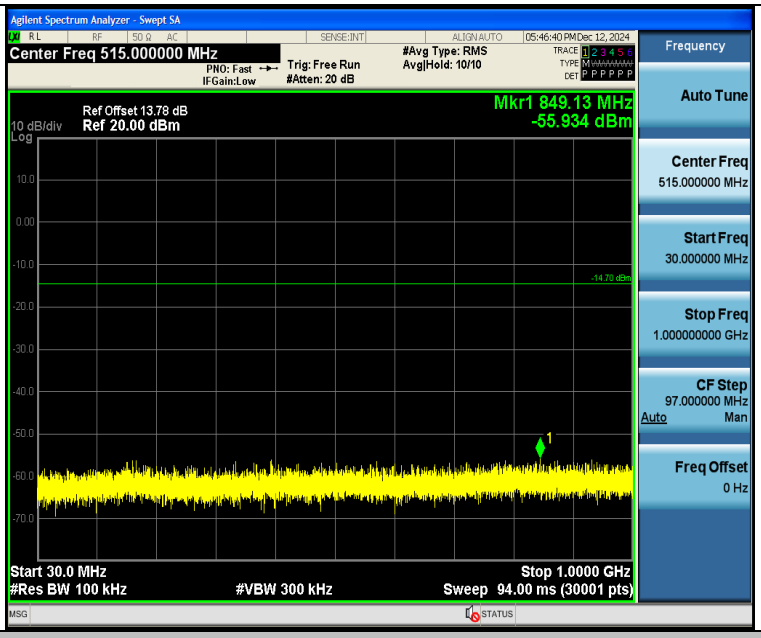


DH5-Ant1-2402-30~1000-PASS

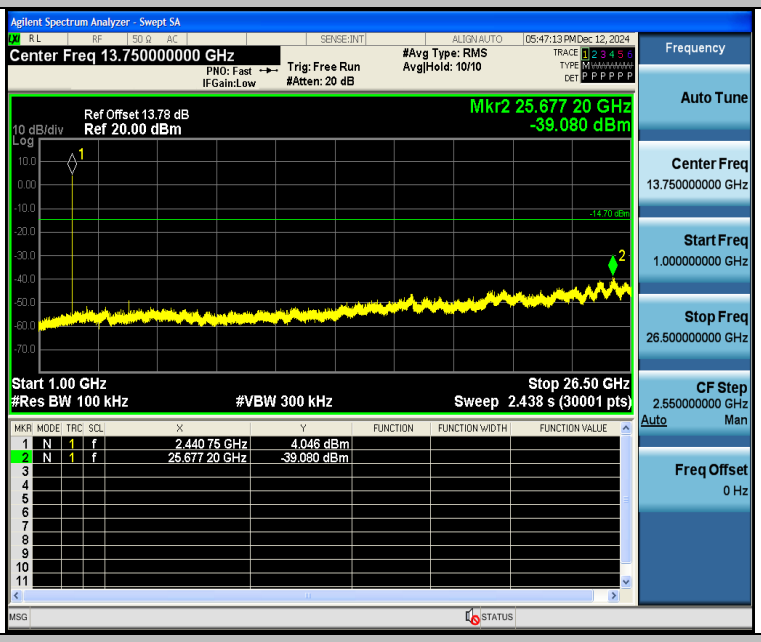


DH5-Ant1-2402-1000~26500-PASS

DH5-Ant1-2441-0~Reference-PASS

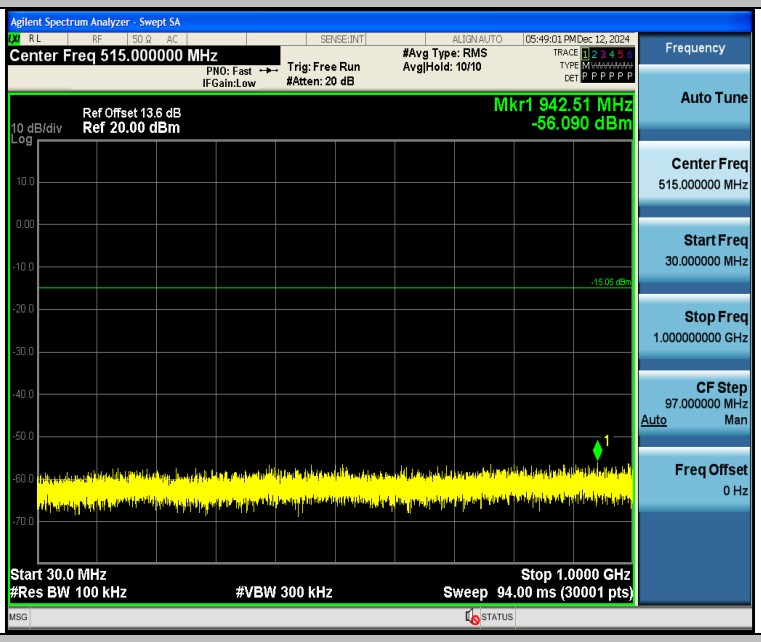


DH5-Ant1-2441-30~1000-PASS

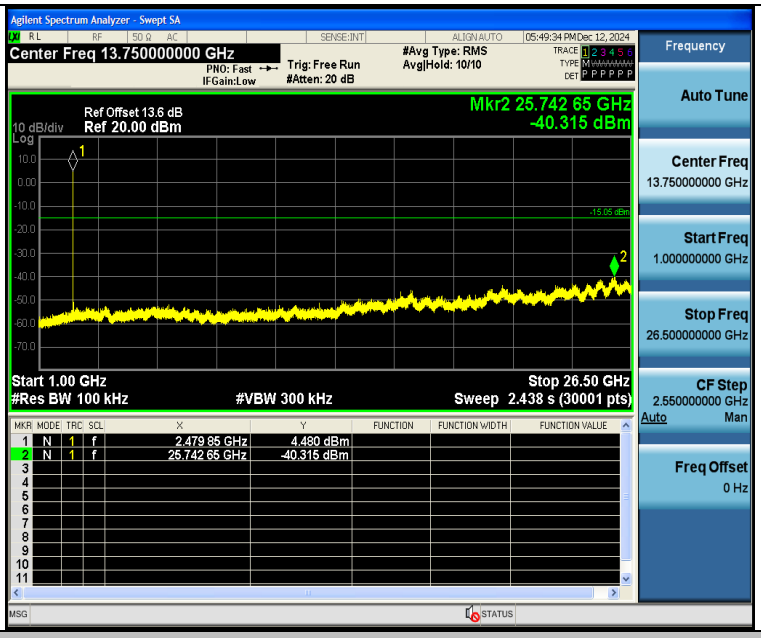


DH5-Ant1-2441-1000~26500-PASS

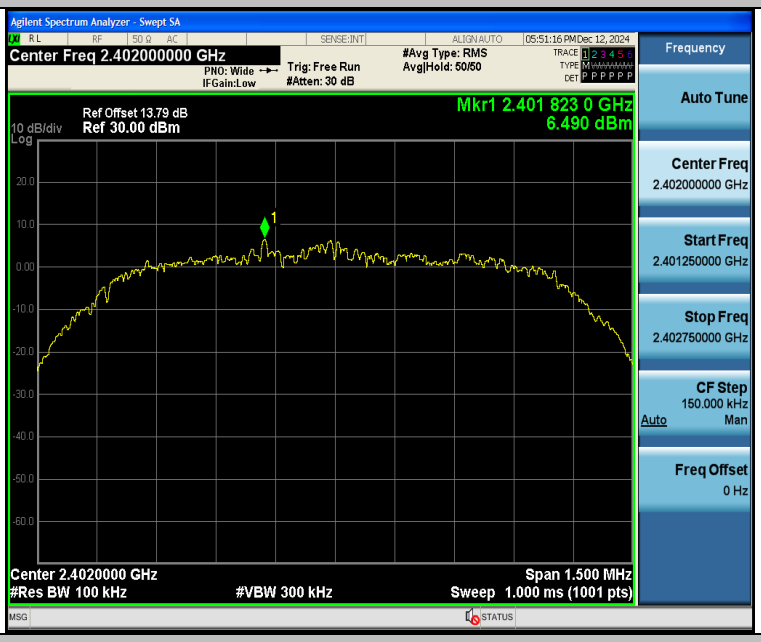
DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS



DH5-Ant1-2480-1000~26500-PASS



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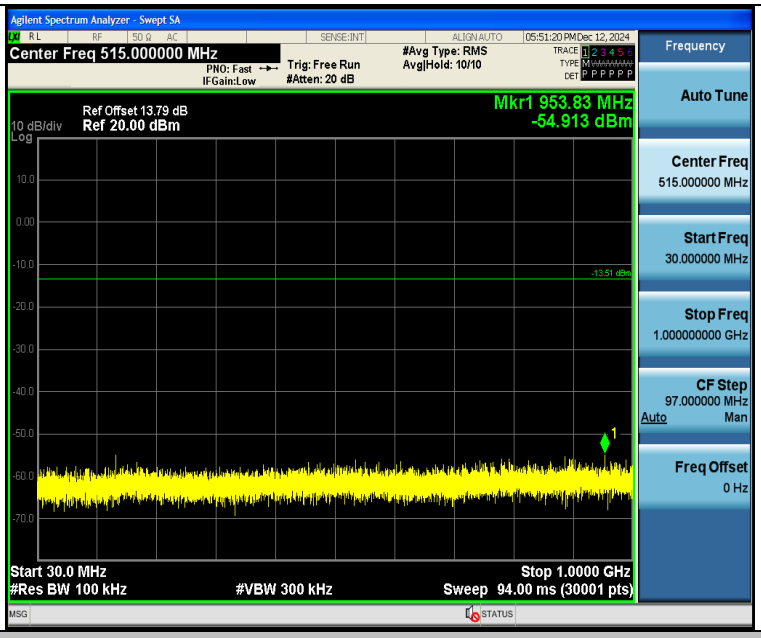
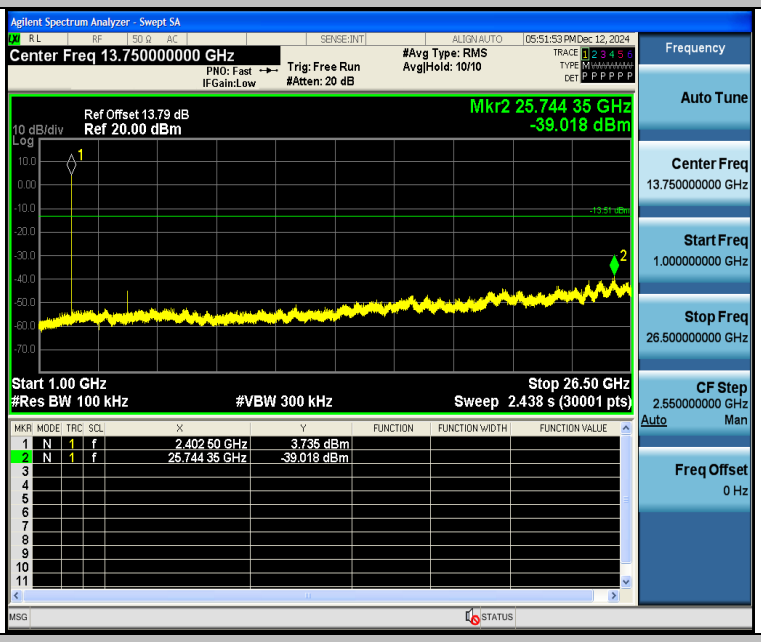
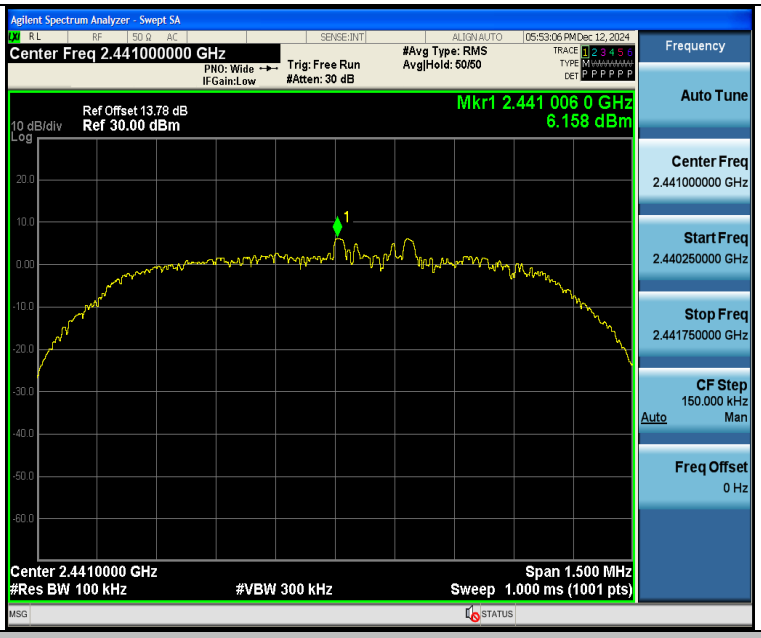


2DH5-Ant1-2402-30~1000-PASS



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



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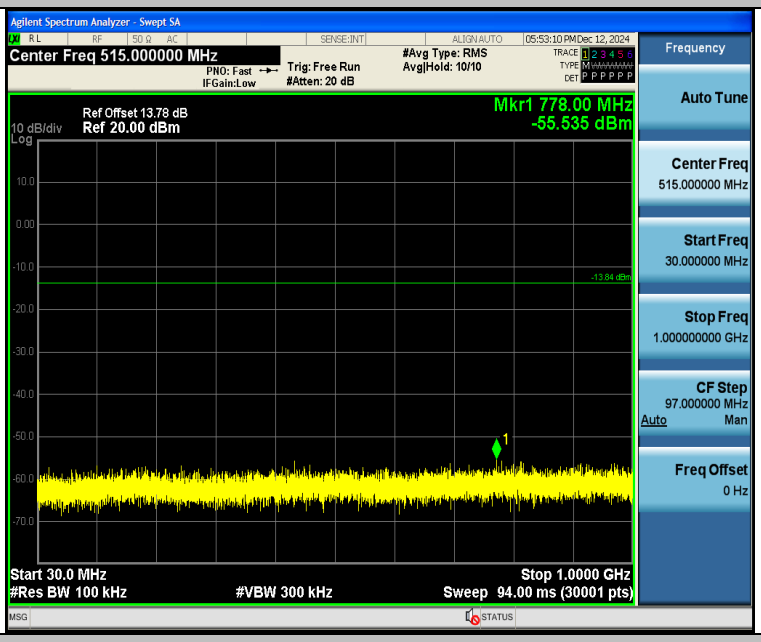
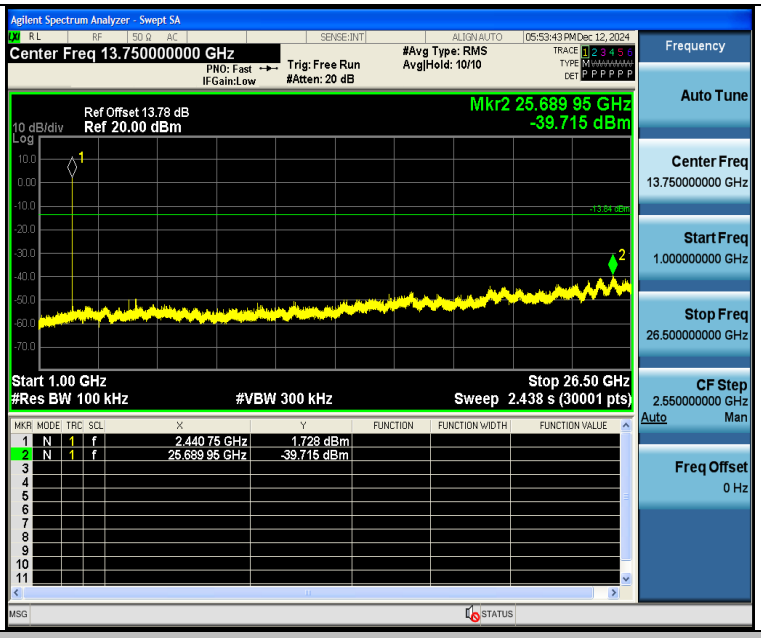
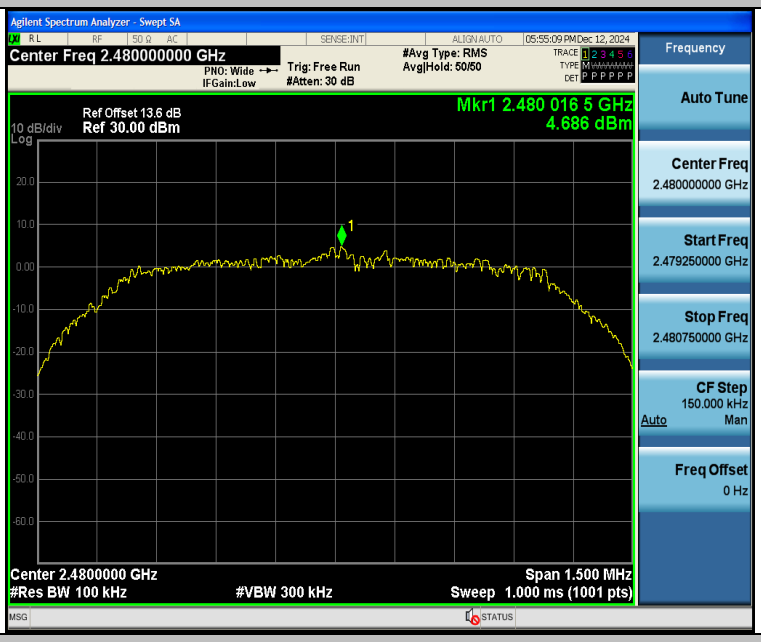


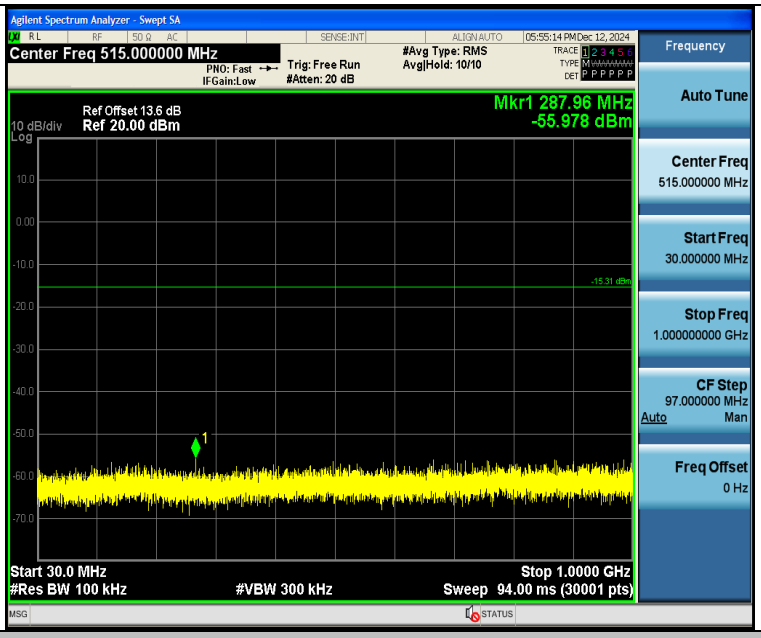
2DH5-Ant1-2441-30~1000-PASS



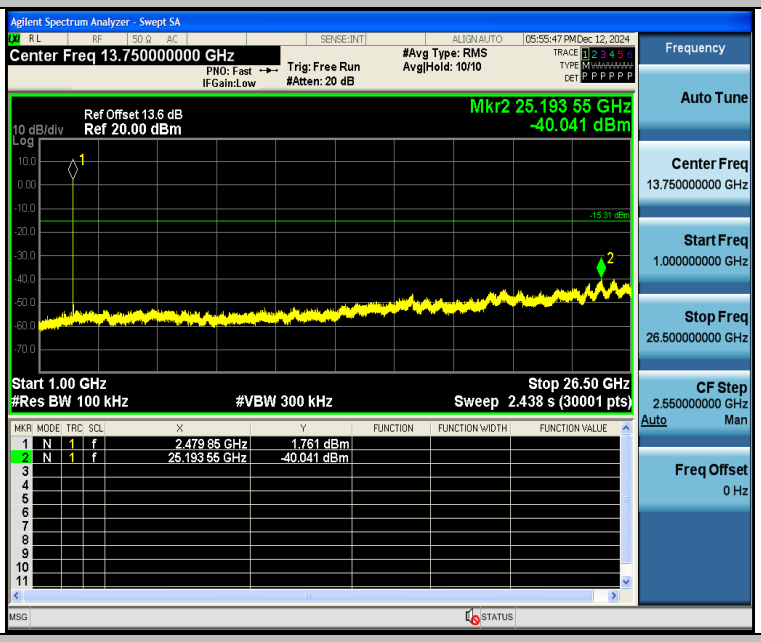
2DH5-Ant1-2441-1000~26500-PASS



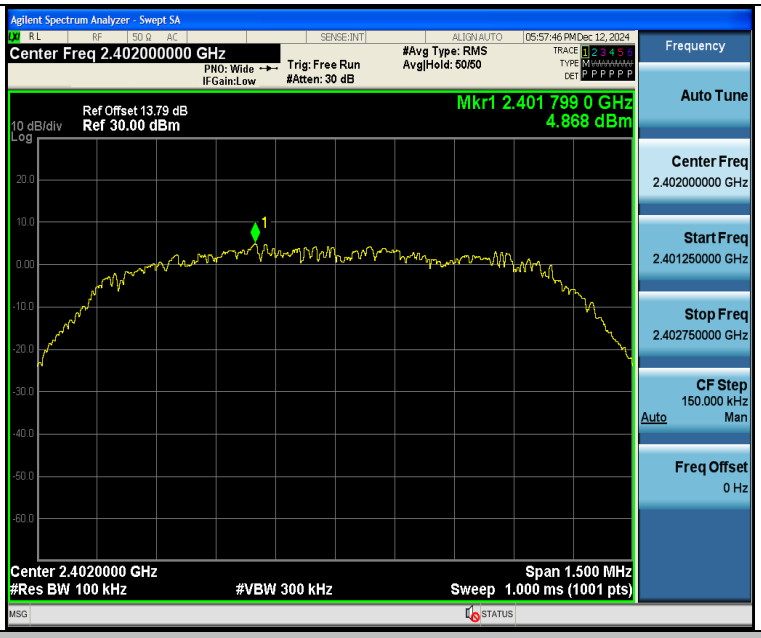
2DH5-Ant1-2480-0~Reference-PASS



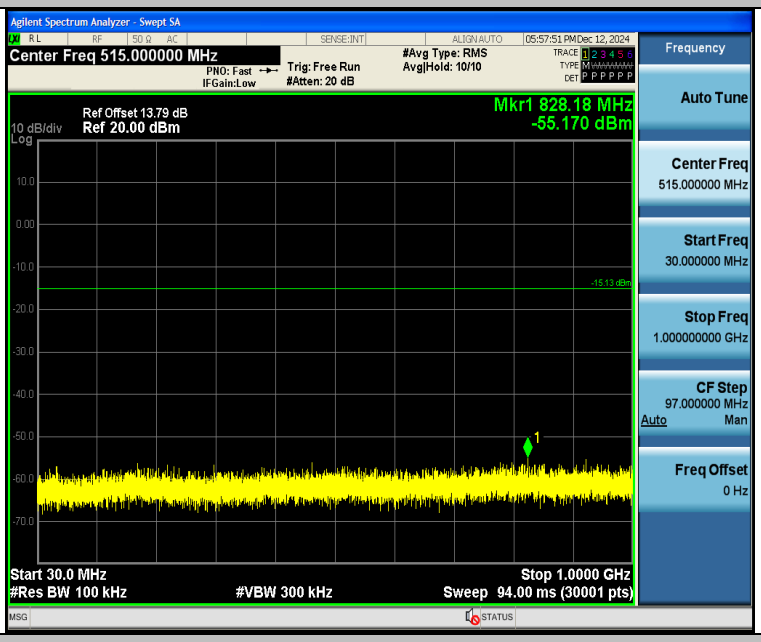
2DH5-Ant1-2480-30~1000-PASS



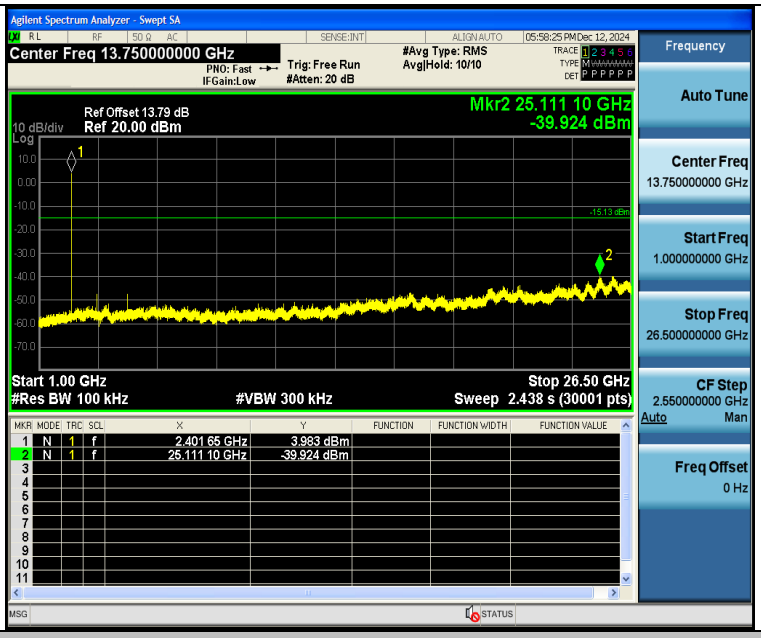
2DH5-Ant1-2480-1000~26500-PASS



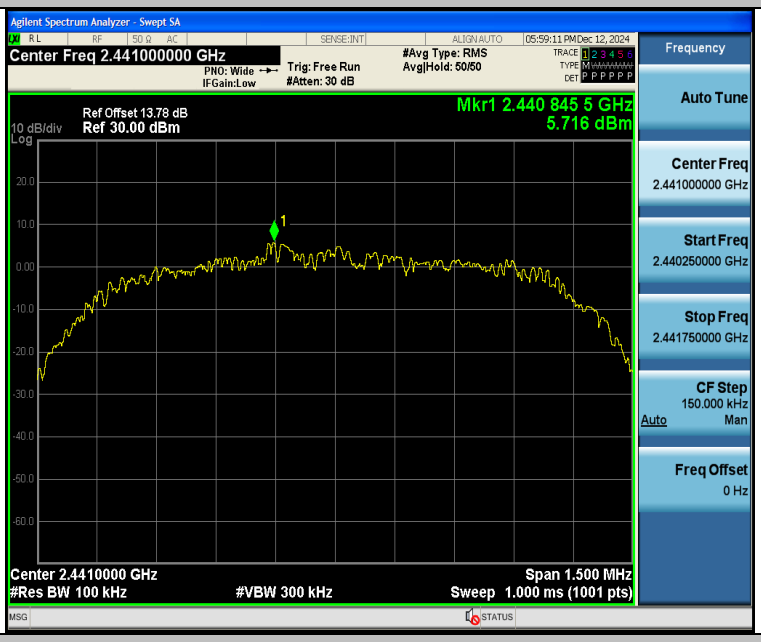
3DH5-Ant1-2402-0~Reference-PASS



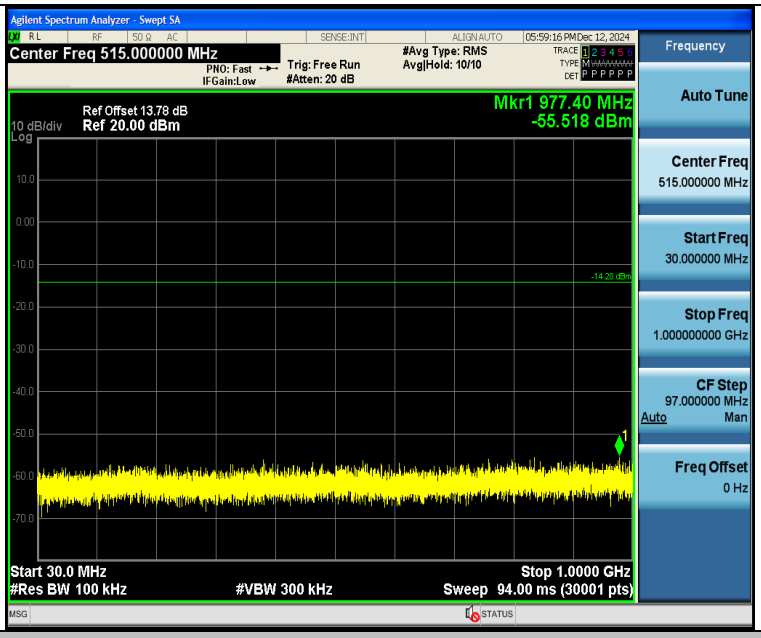
3DH5-Ant1-2402-30~1000-PASS



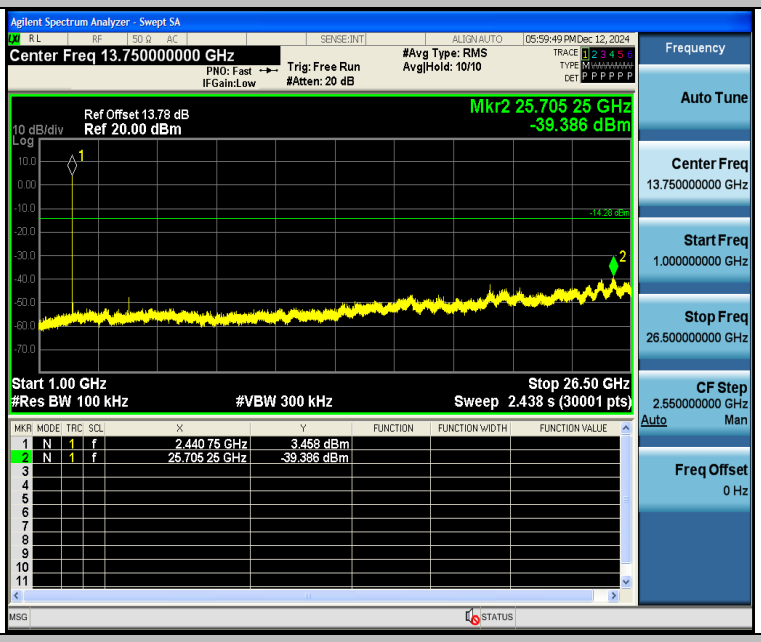
3DH5-Ant1-2402-1000~26500-PASS



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

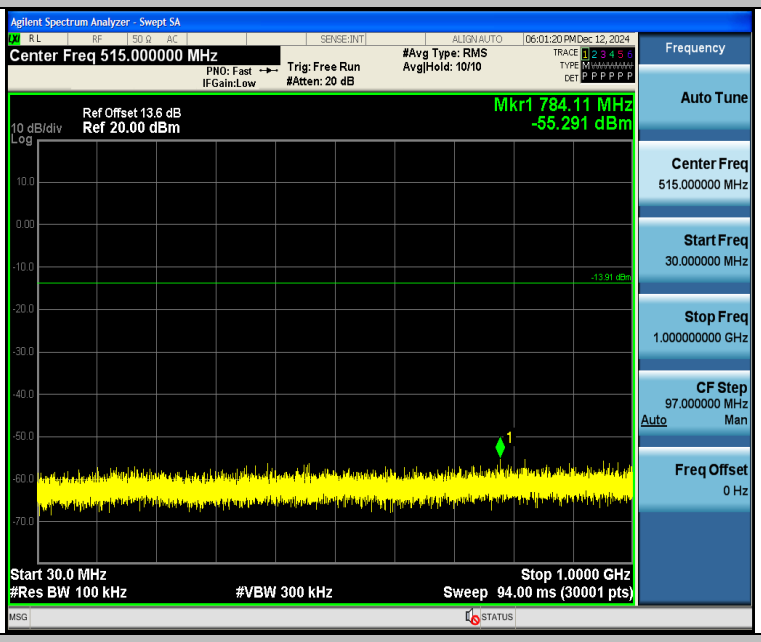


3DH5-Ant1-2441-30~1000-PASS

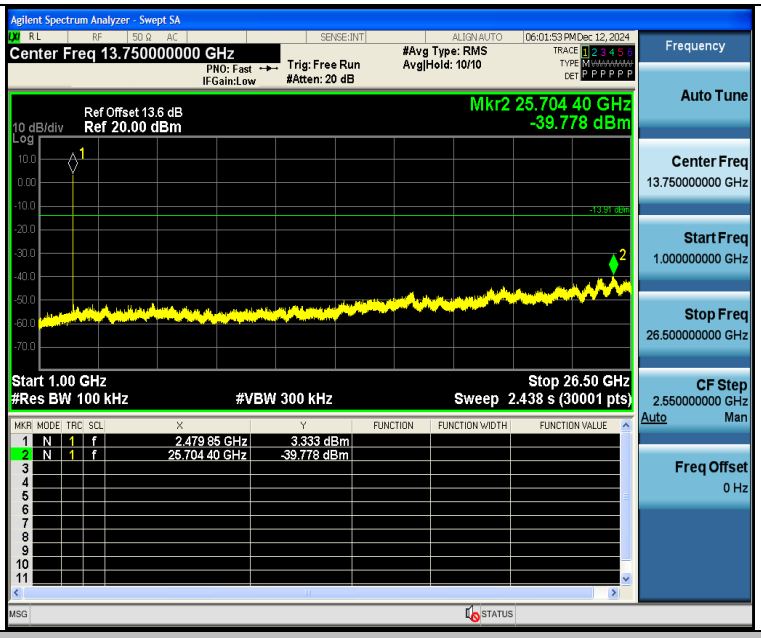


3DH5-Ant1-2441-1000~26500-PASS

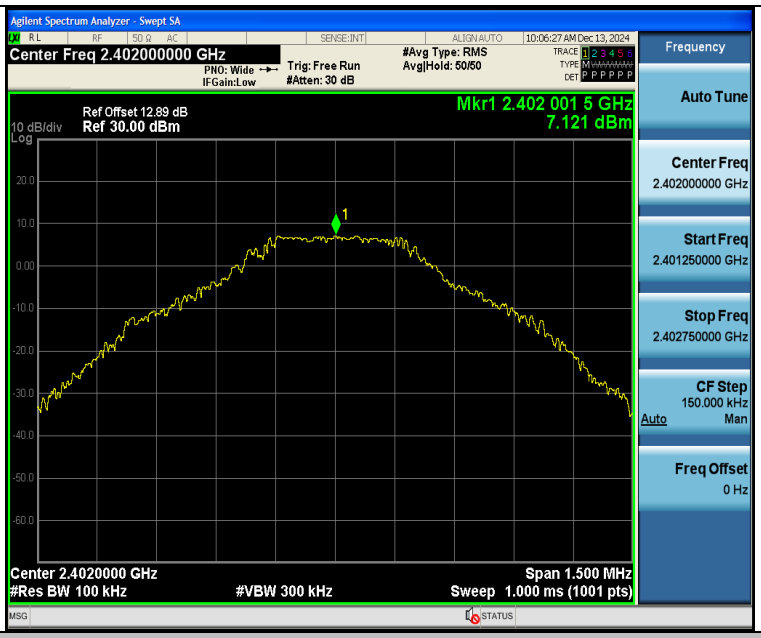
3DH5-Ant1-2480-0~Reference-PASS



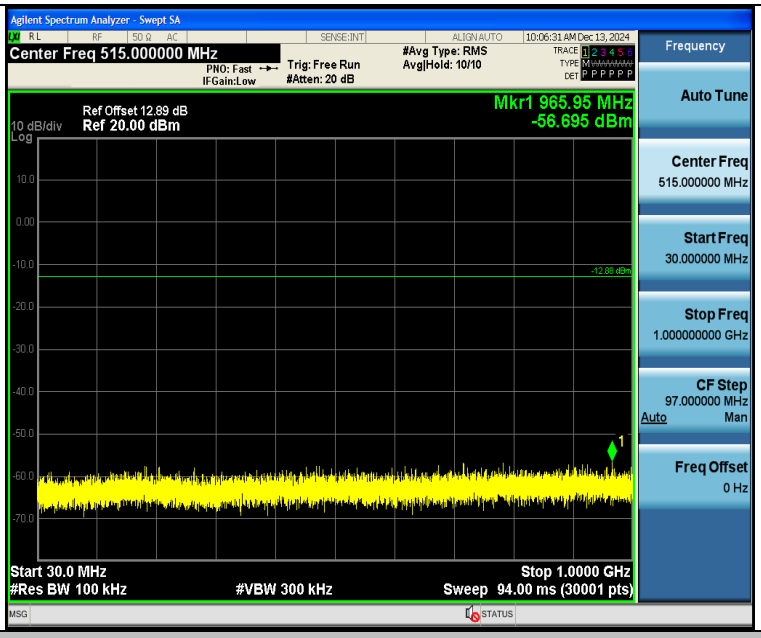
3DH5-Ant1-2480-30~1000-PASS



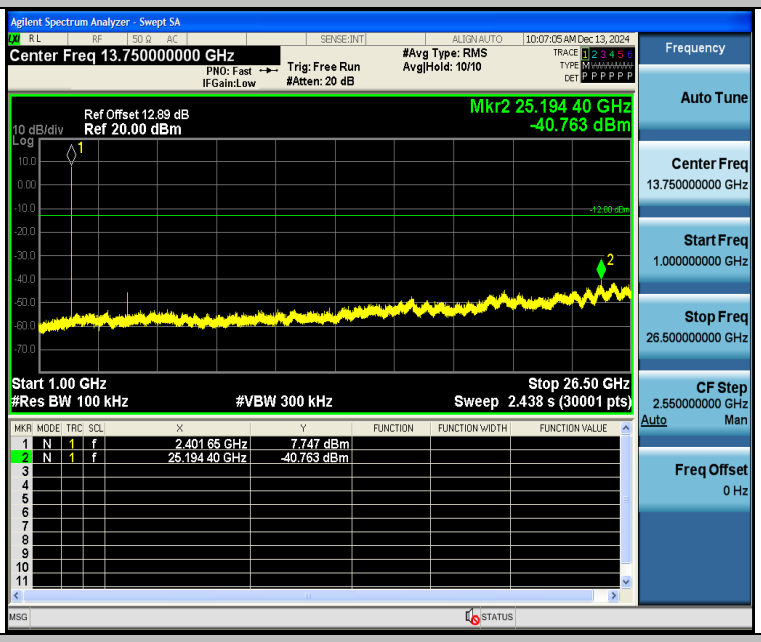
3DH5-Ant1-2480-1000~26500-PASS



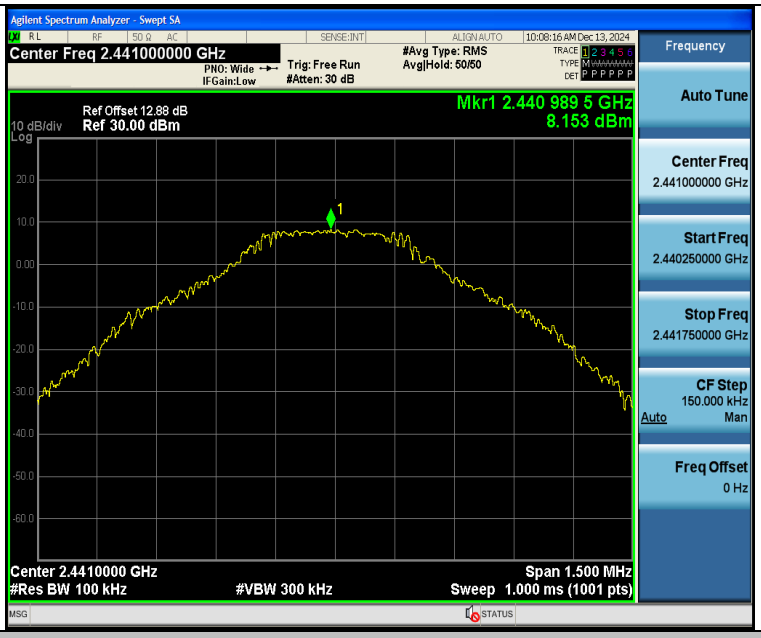
DH5-Ant2-2402-0~Reference-PASS



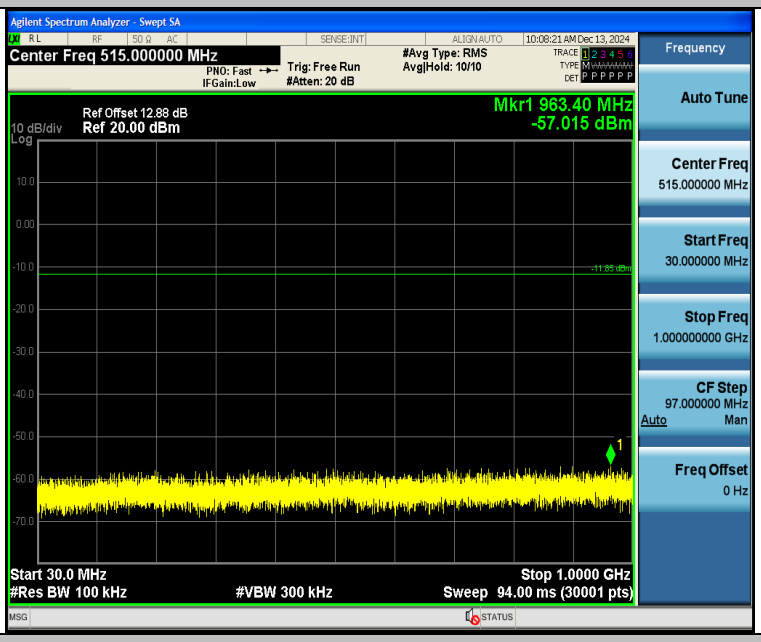
DH5-Ant2-2402-30~1000-PASS



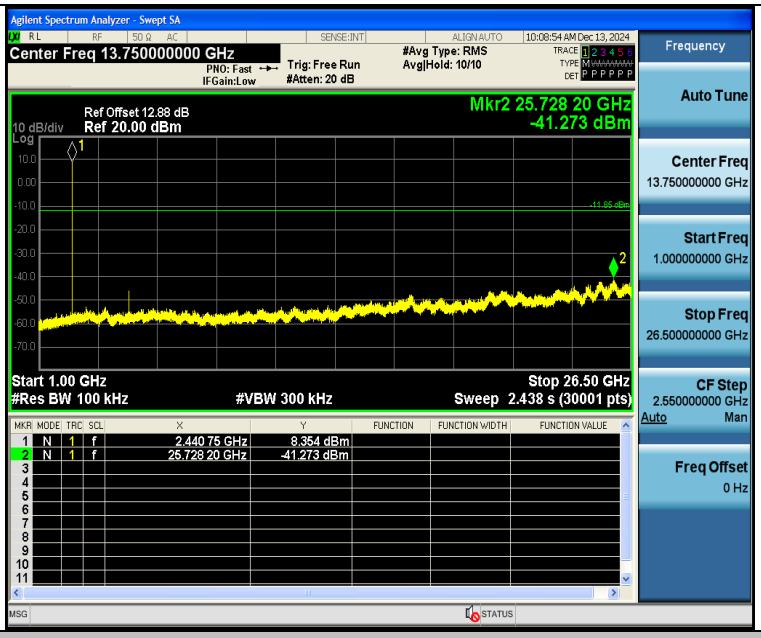
DH5-Ant2-2402-1000~26500-PASS



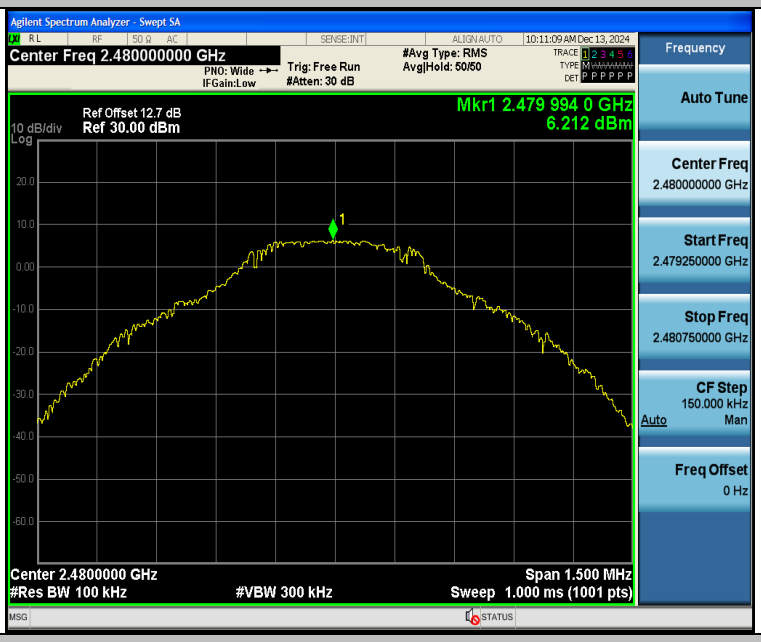
DH5-Ant2-2441-0~Reference-PASS



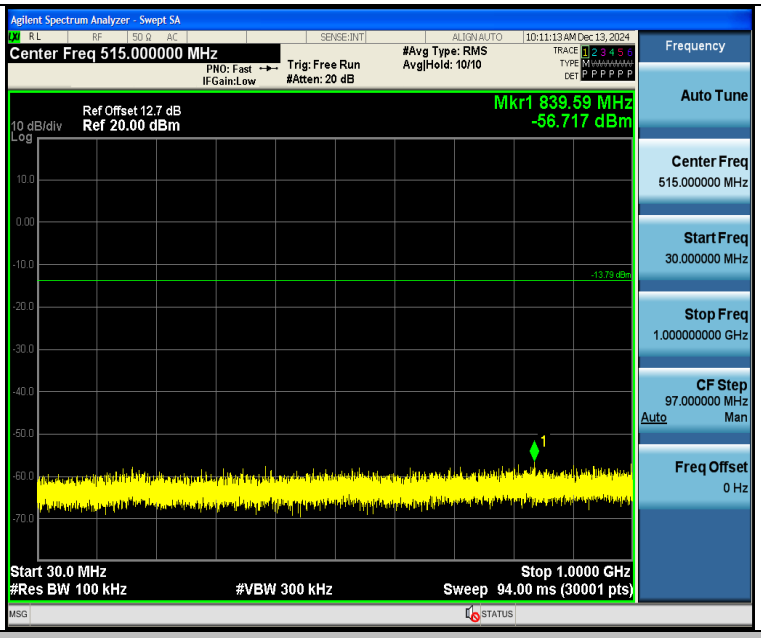
DH5-Ant2-2441-30~1000-PASS



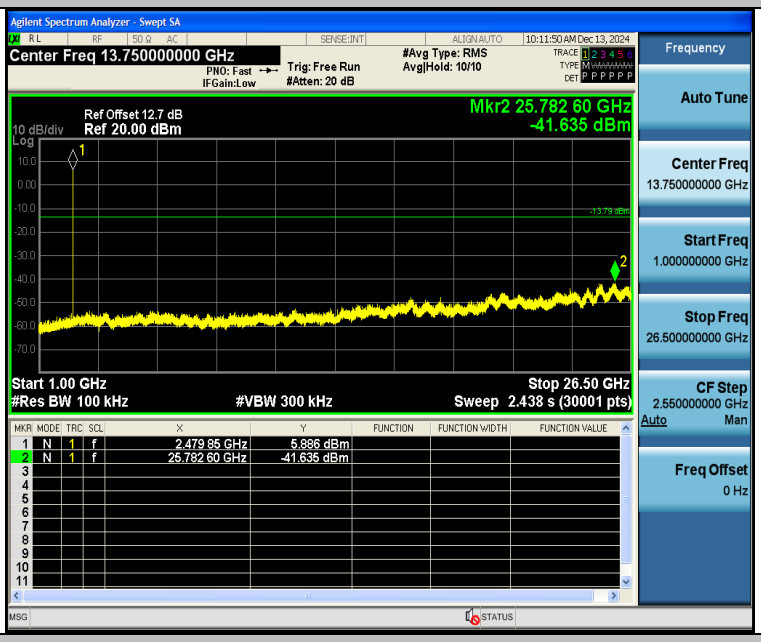
DH5-Ant2-2441-1000~26500-PASS



DH5-Ant2-2480-0~Reference-PASS

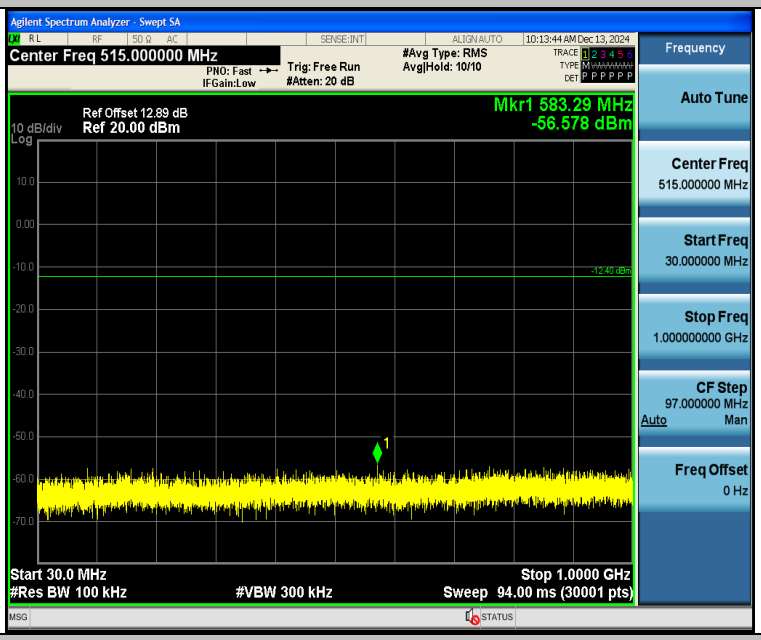


DH5-Ant2-2480-30~1000-PASS

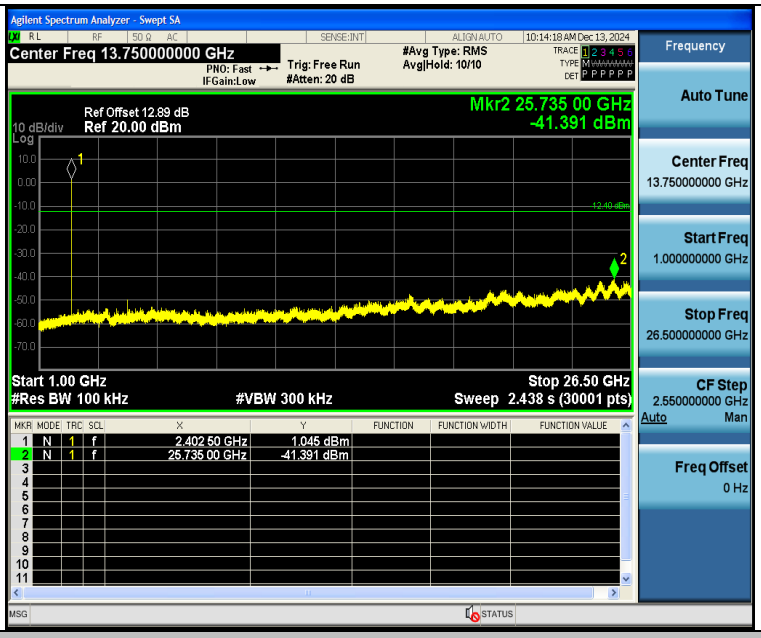


DH5-Ant2-2480-1000~26500-PASS

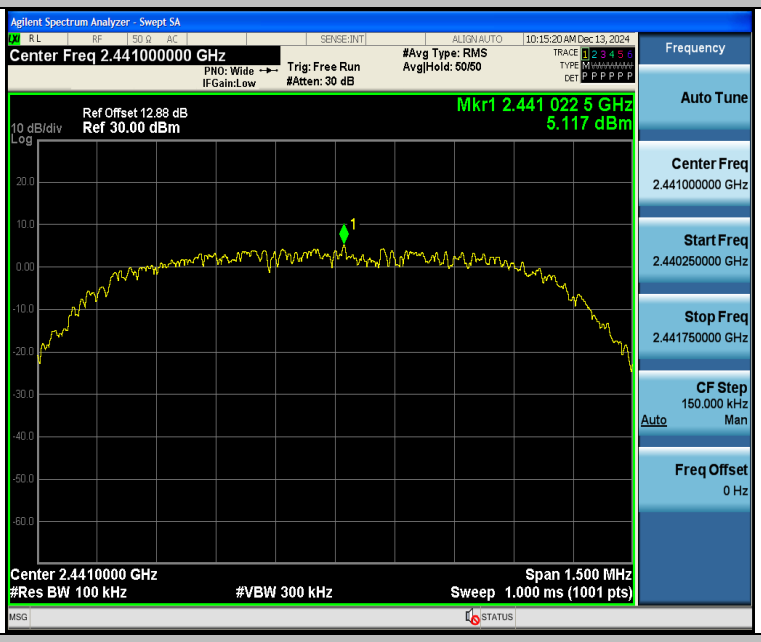
2DH5-Ant2-2402-0~Reference-PASS



2DH5-Ant2-2402-30~1000-PASS



2DH5-Ant2-2402-1000~26500-PASS



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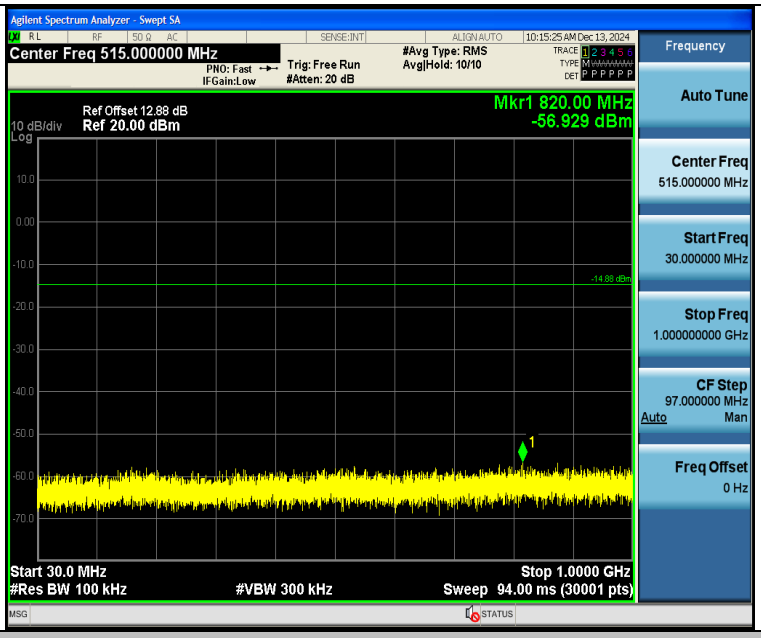
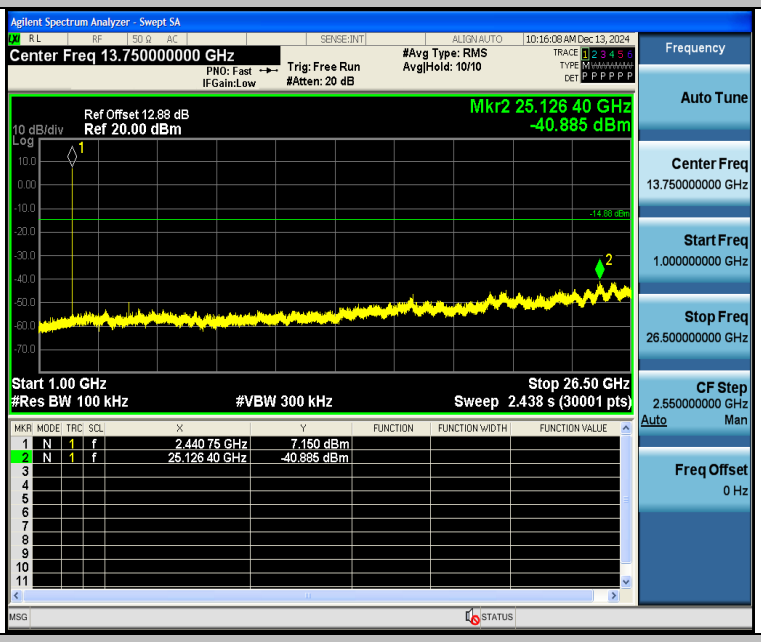
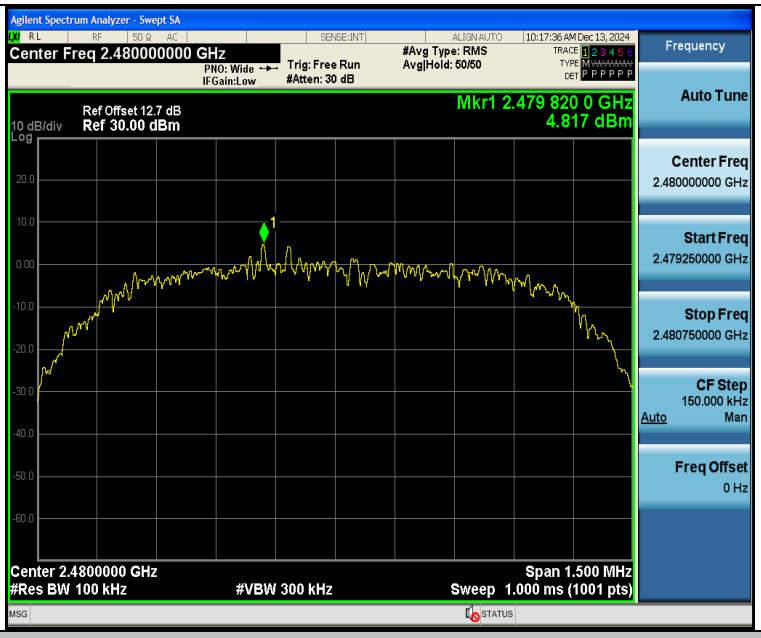


2DH5-Ant2-2441-30~1000-PASS



2DH5-Ant2-2441-1000~26500-PASS



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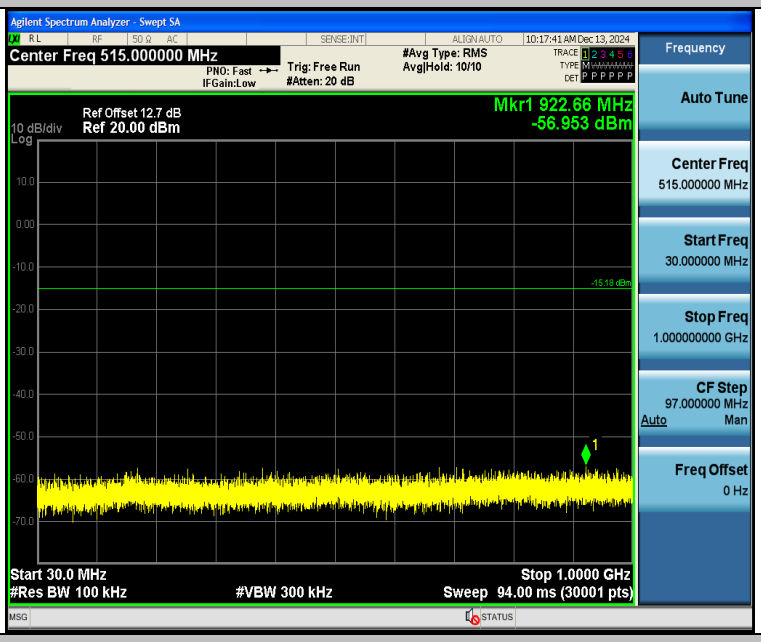
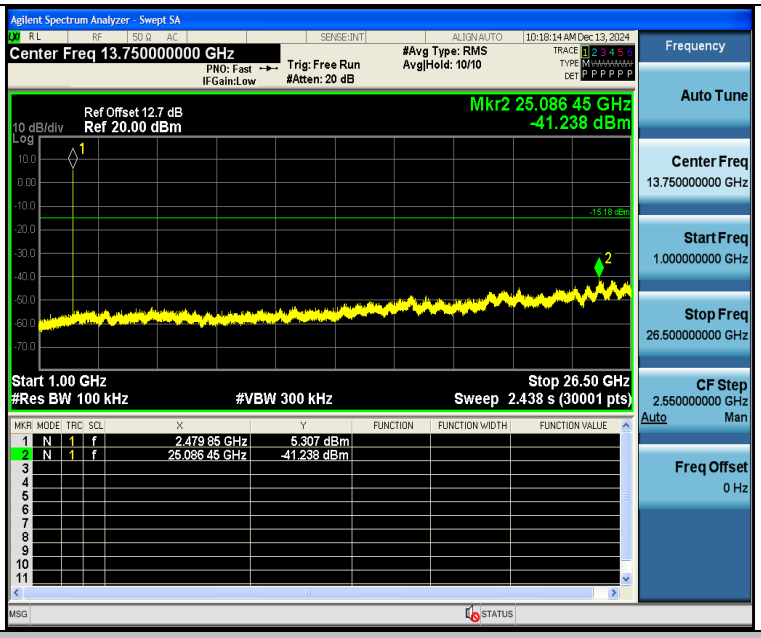
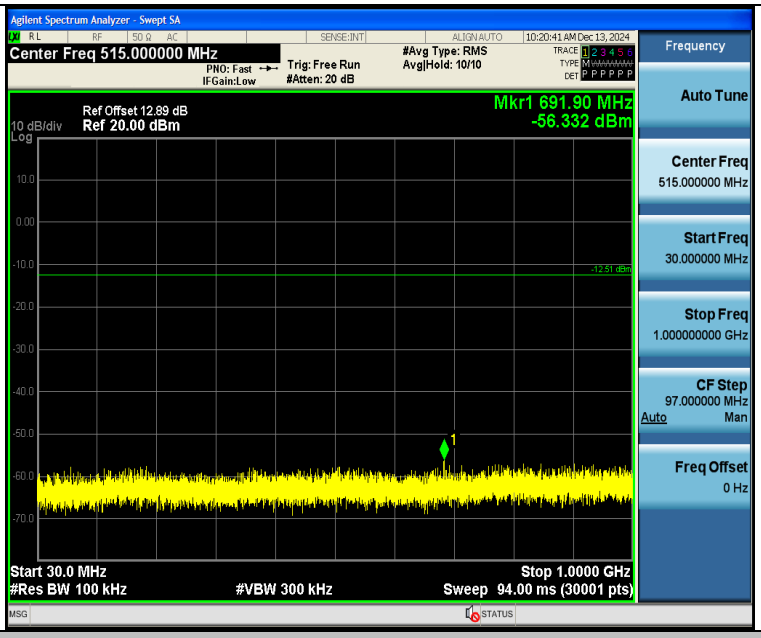


2DH5-Ant2-2480-30~1000-PASS

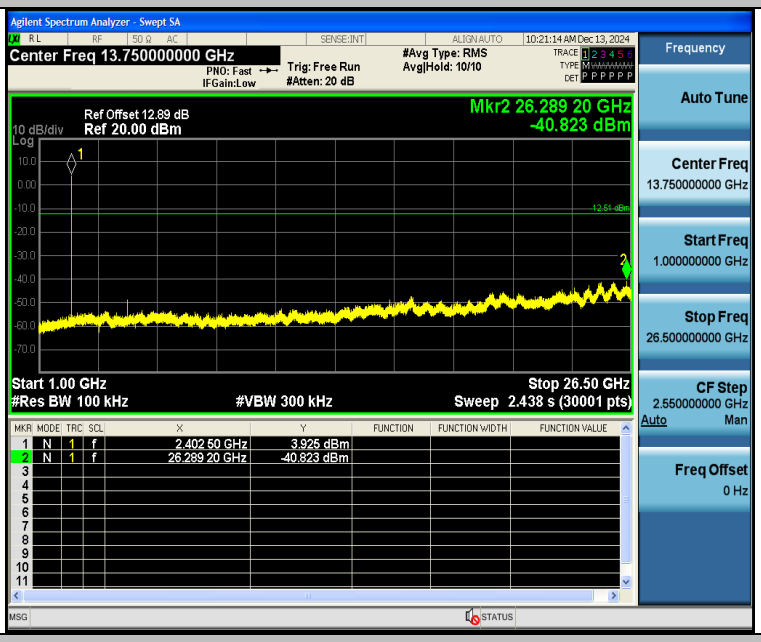


2DH5-Ant2-2480-1000~26500-PASS

3DH5-Ant2-2402-0~Reference-PASS

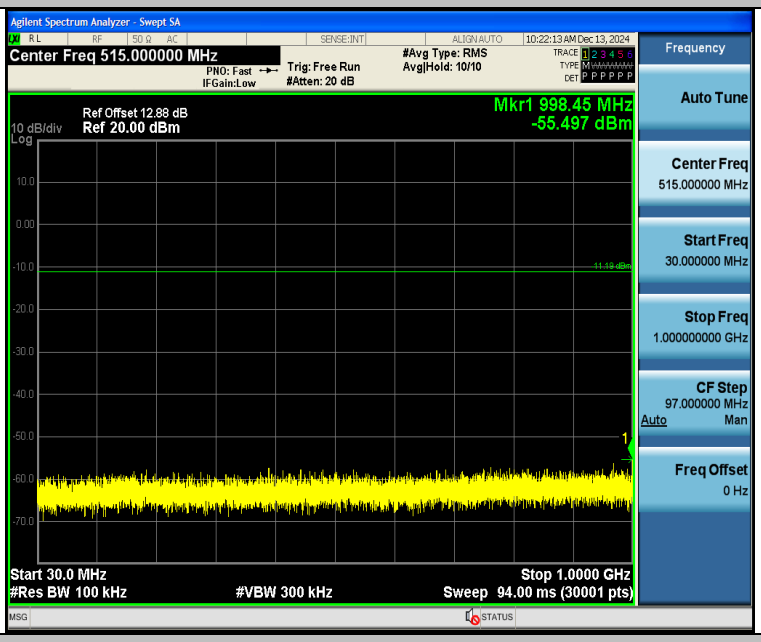


3DH5-Ant2-2402-30~1000-PASS



3DH5-Ant2-2402-1000~26500-PASS

3DH5-Ant2-2441-0~Reference-PASS



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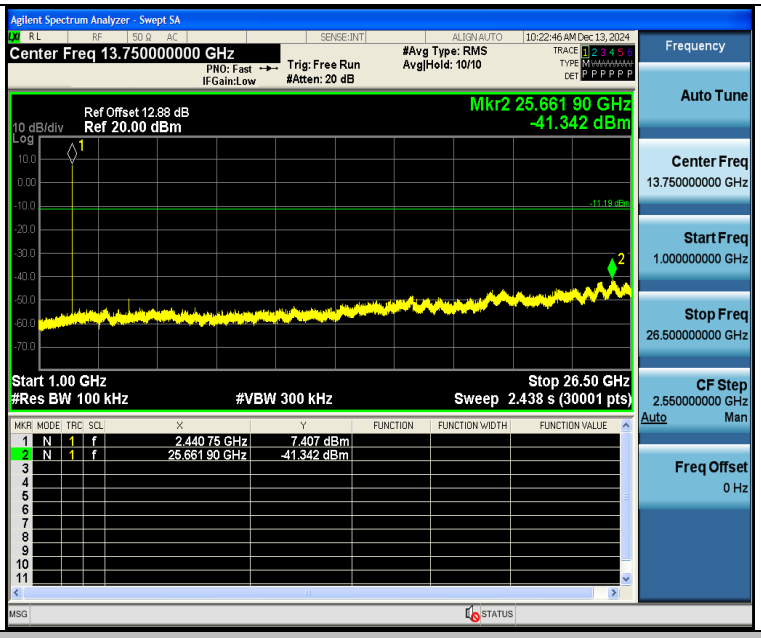

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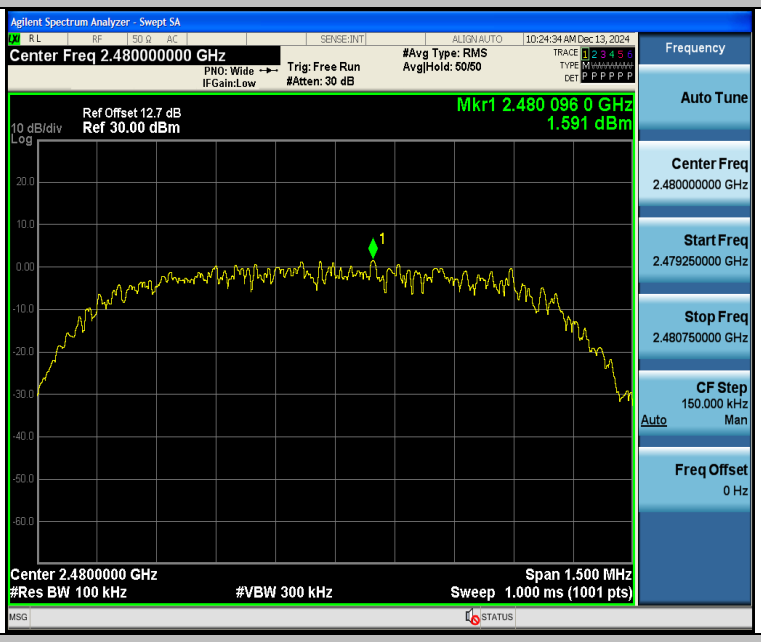

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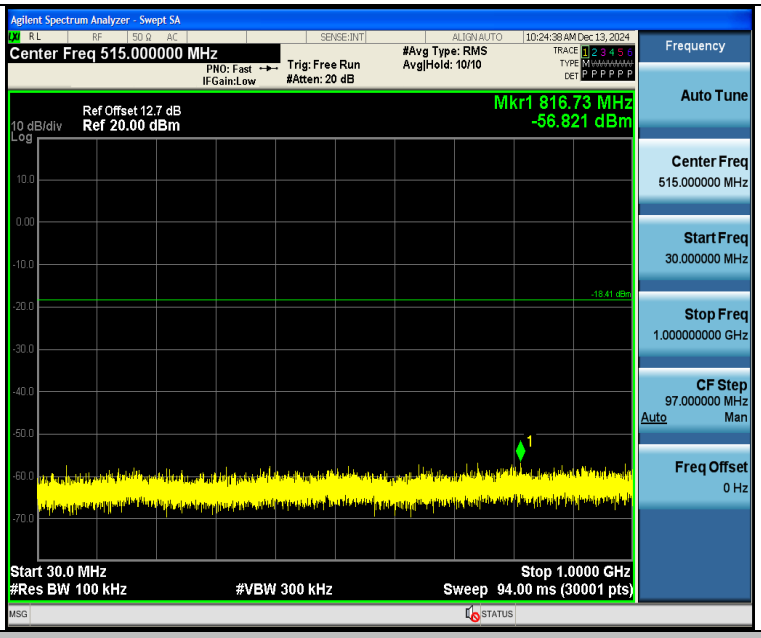

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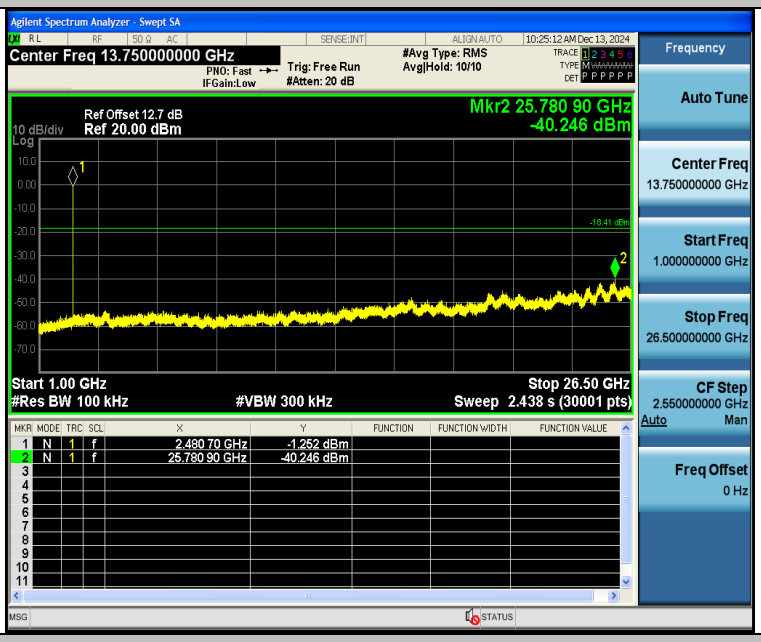

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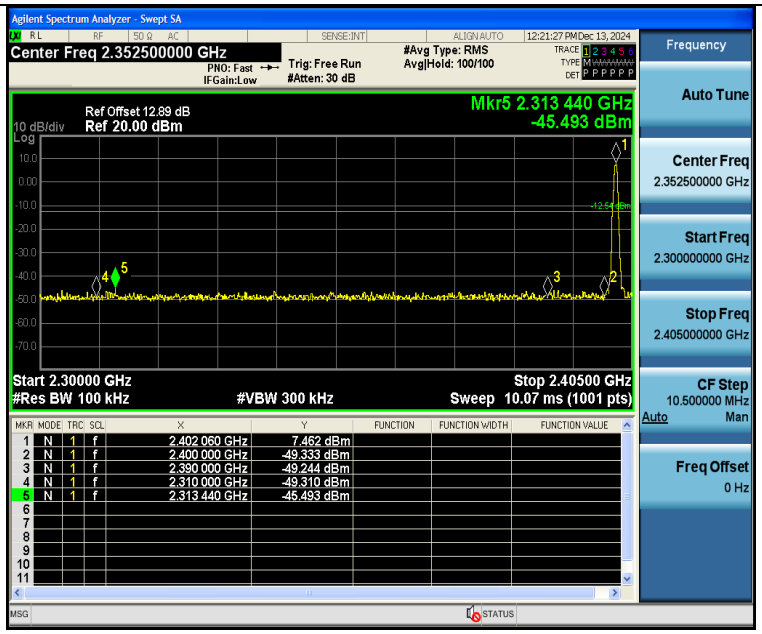
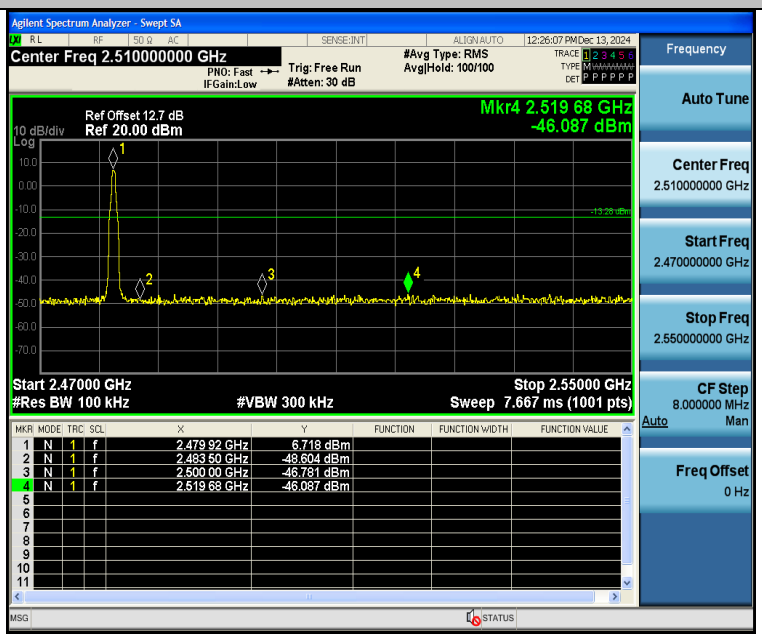


DH5-Ant3-2402-PASS



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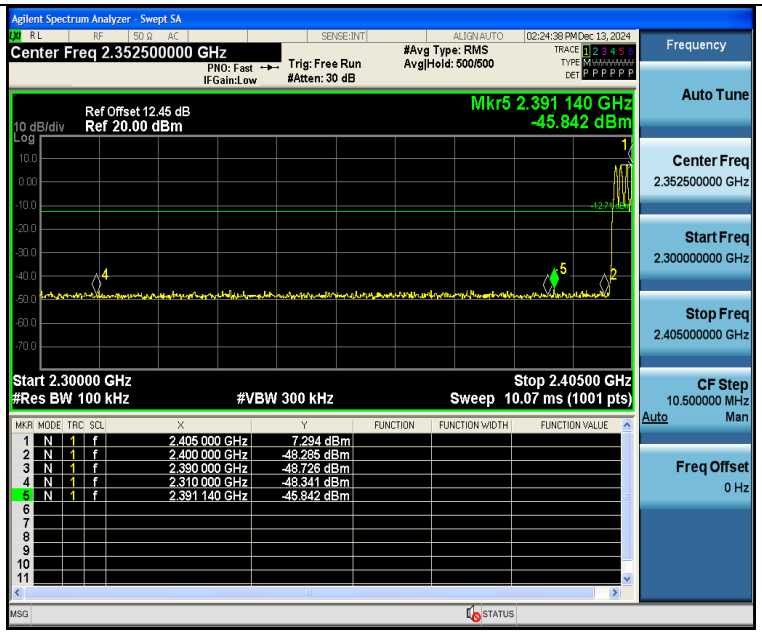

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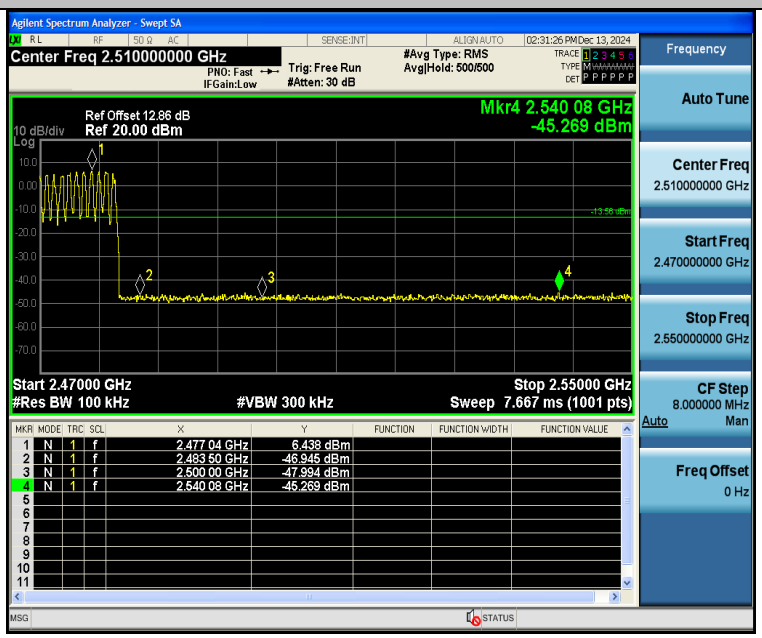

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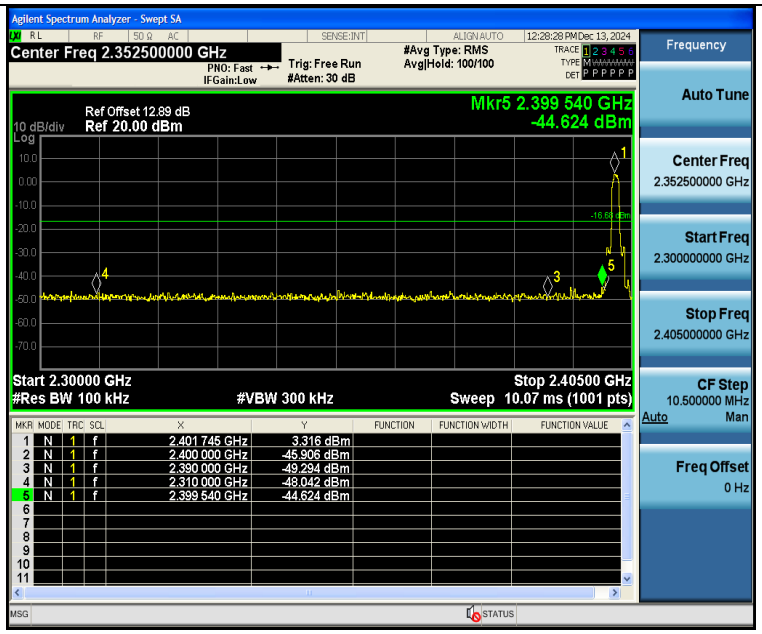

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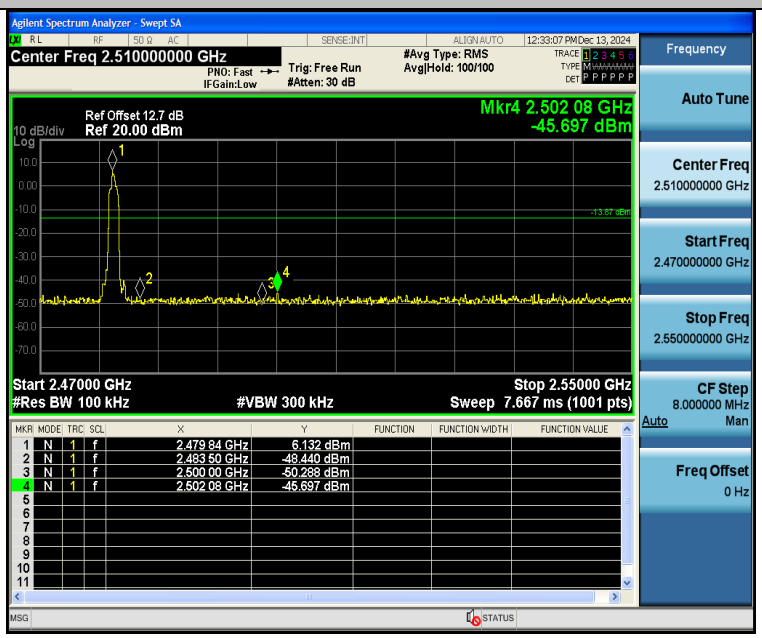

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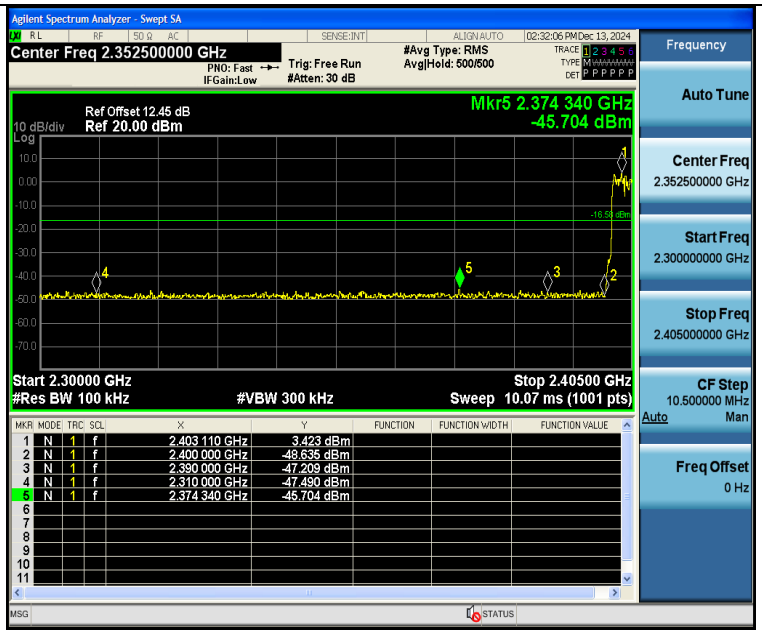

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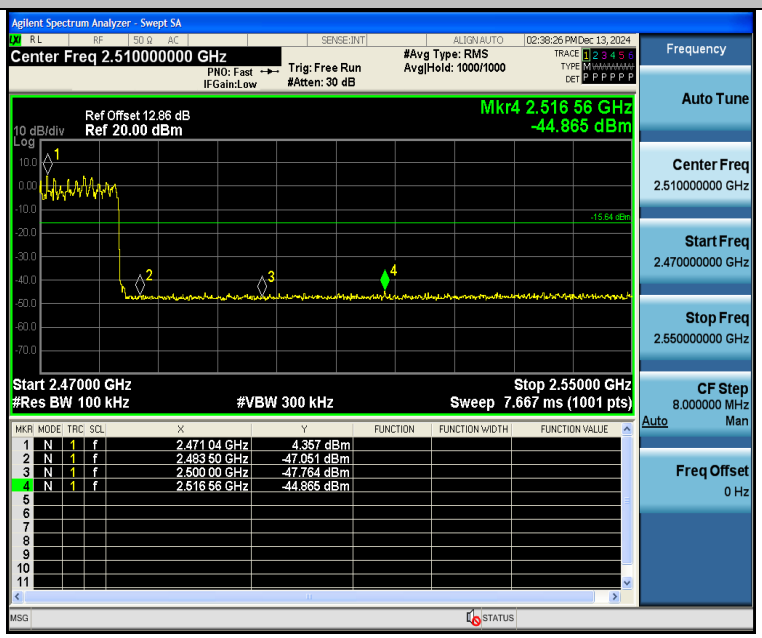

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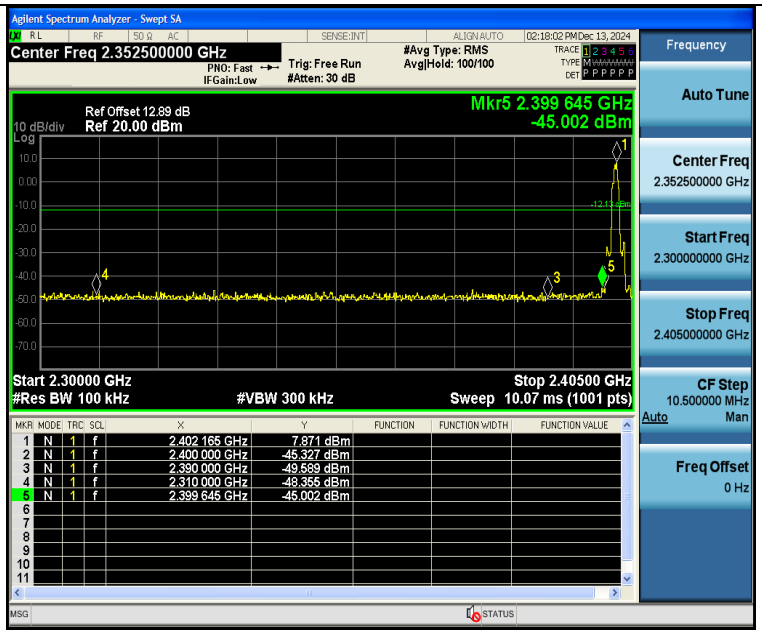

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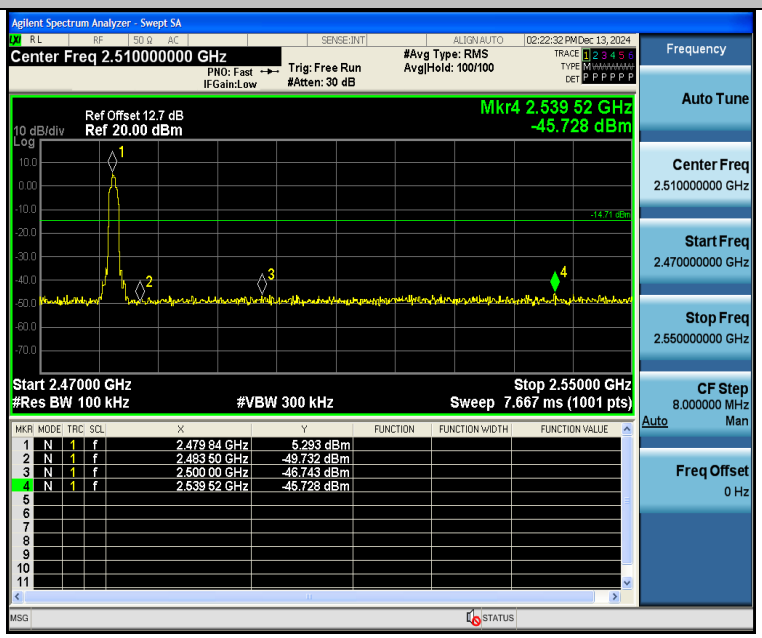

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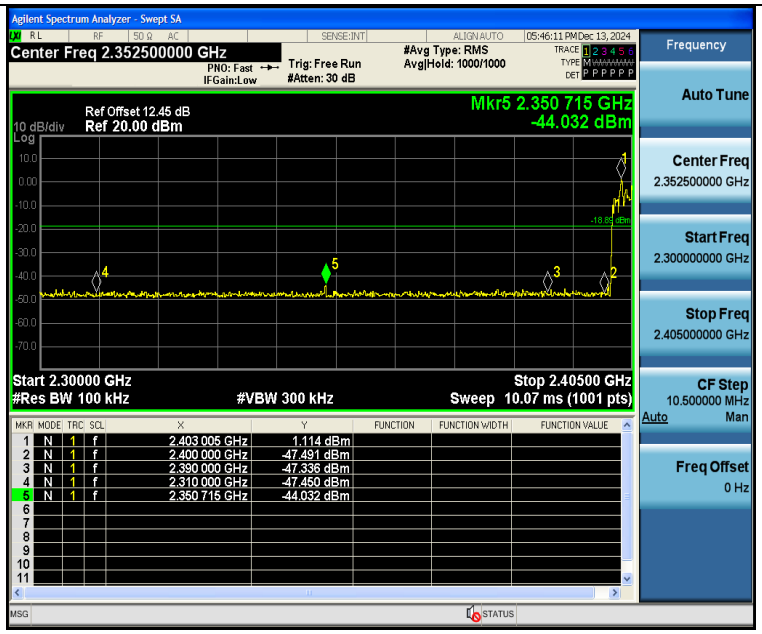

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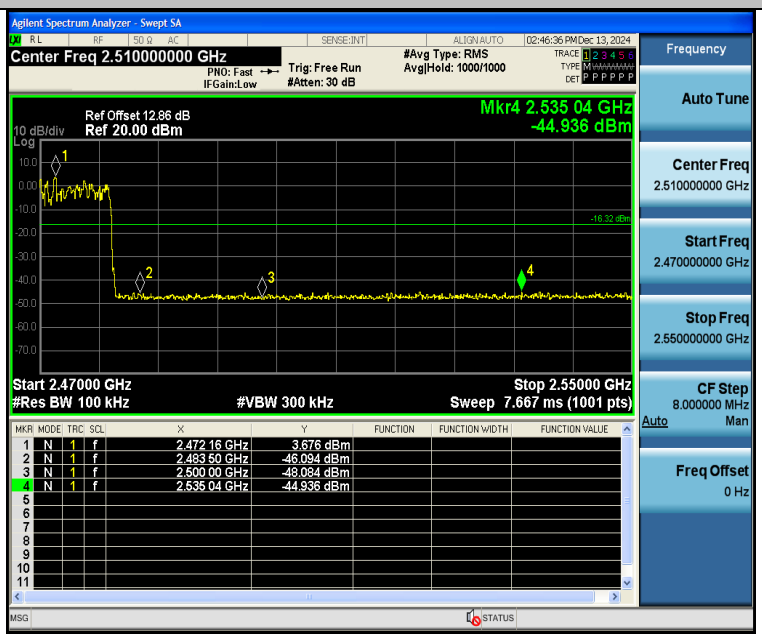

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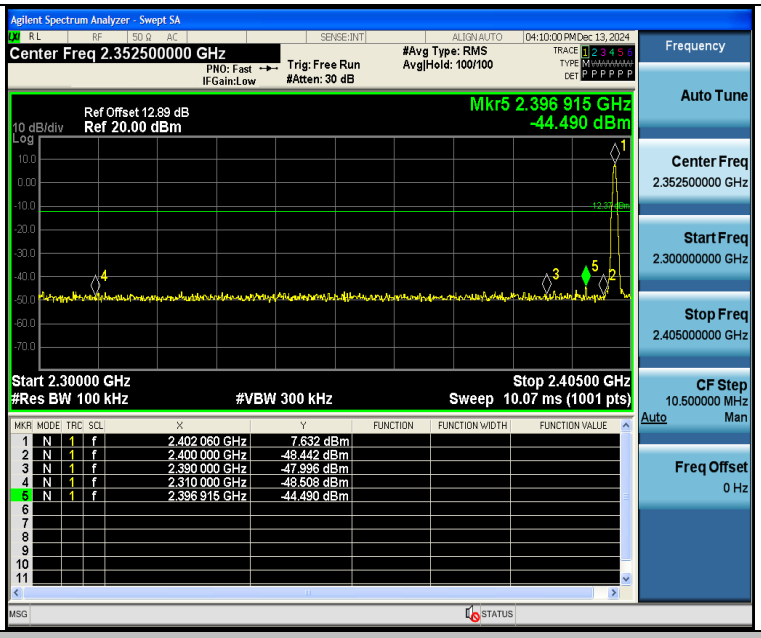
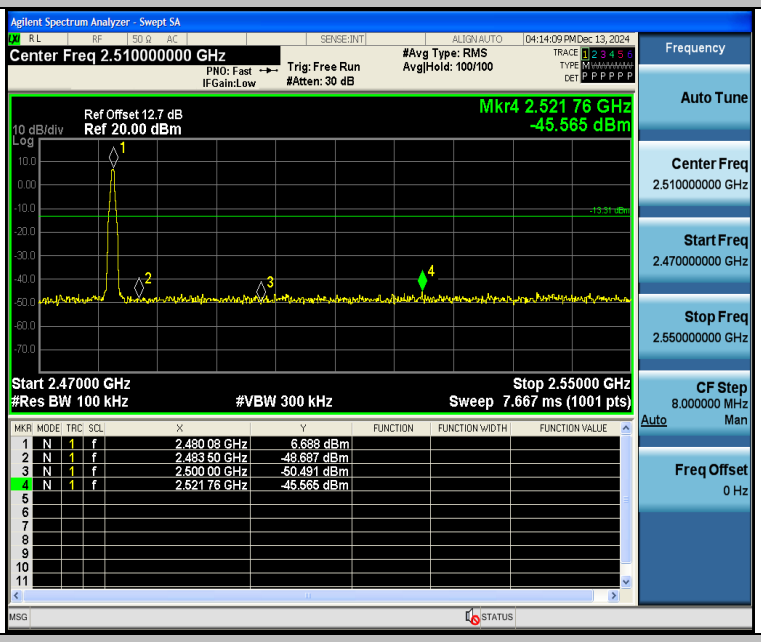


DH5-Ant4-2402-PASS



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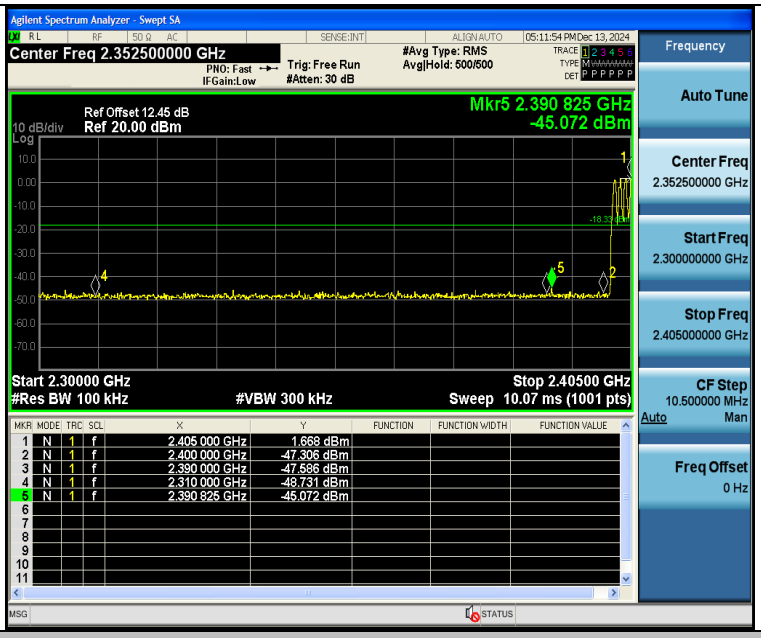

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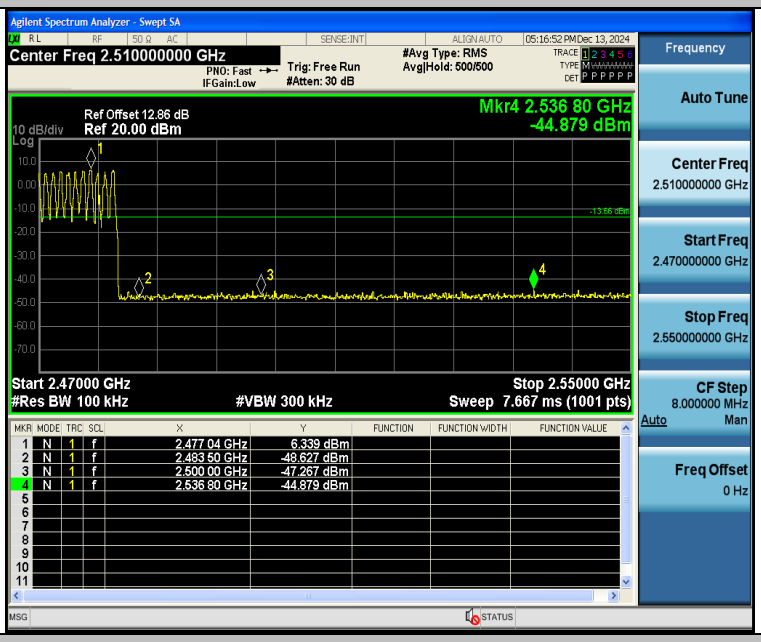

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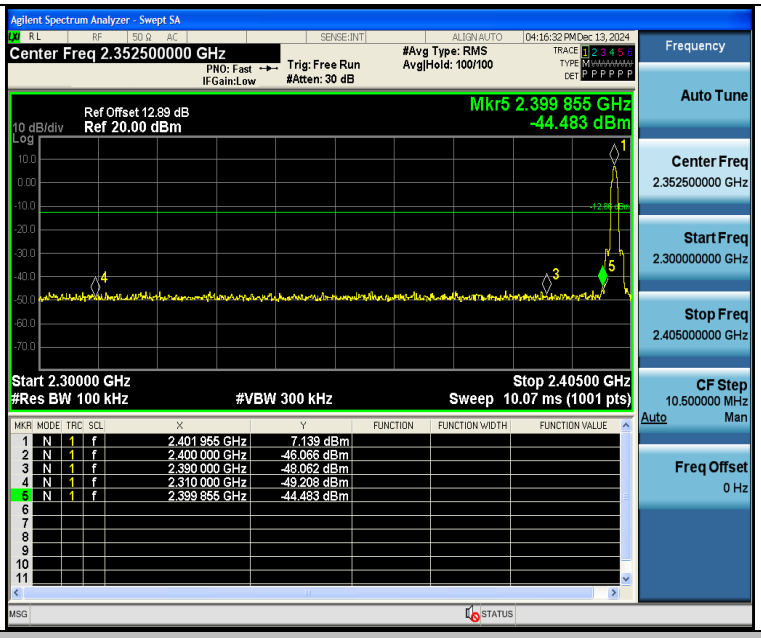

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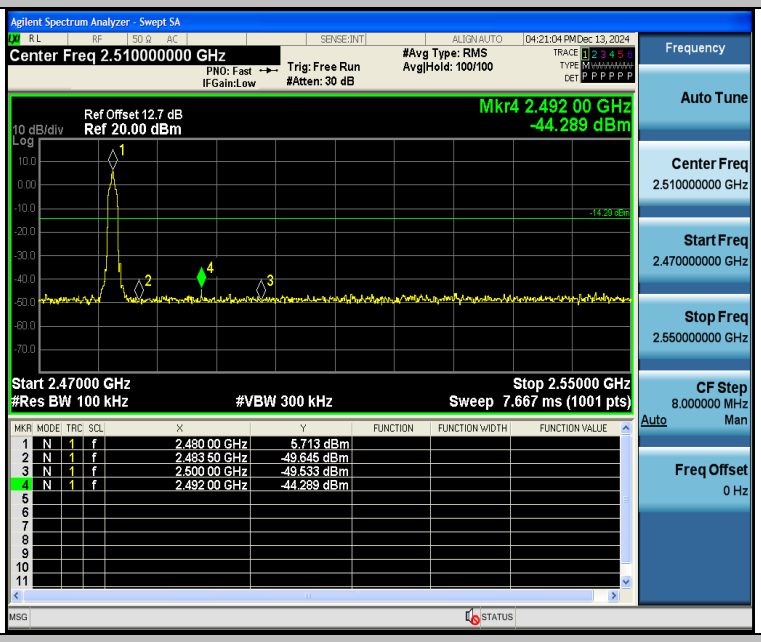

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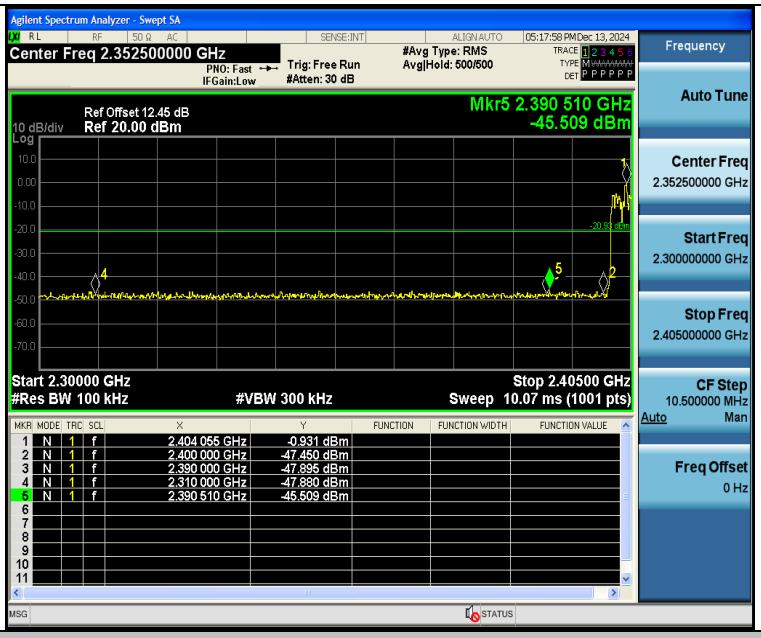

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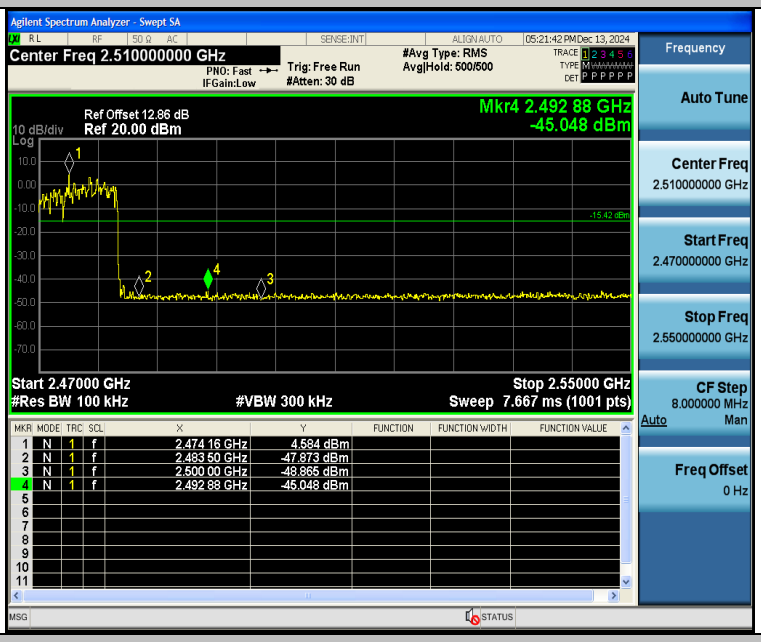

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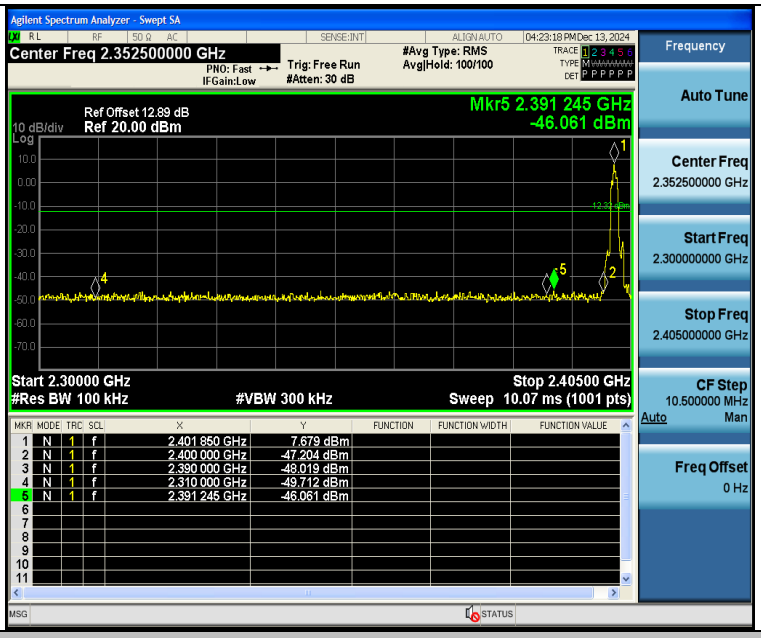

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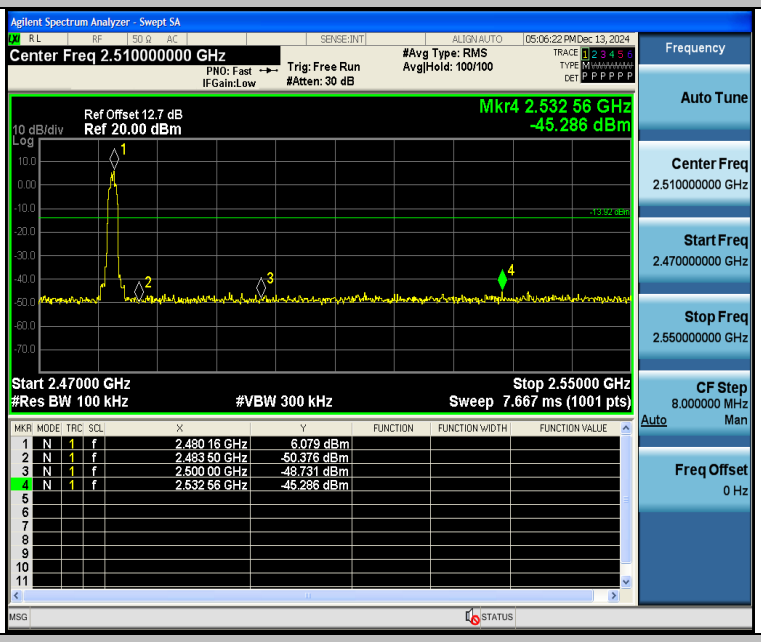

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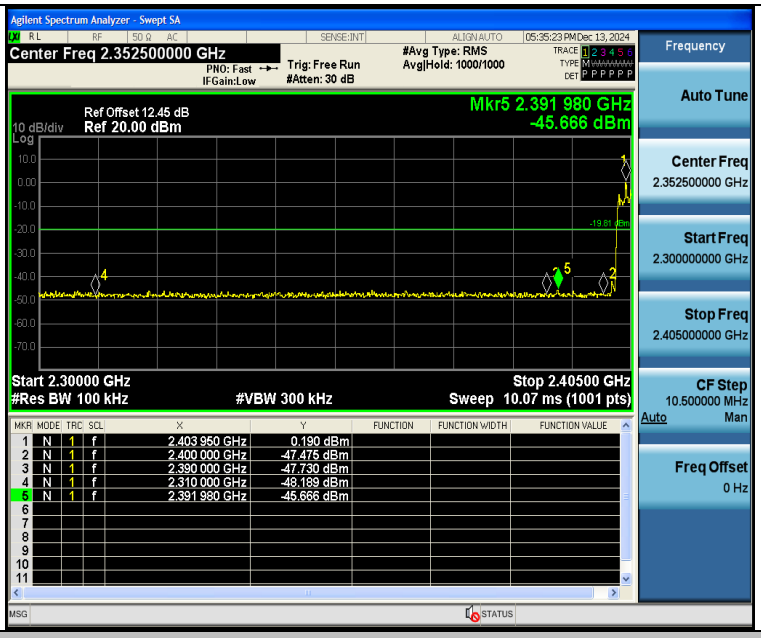

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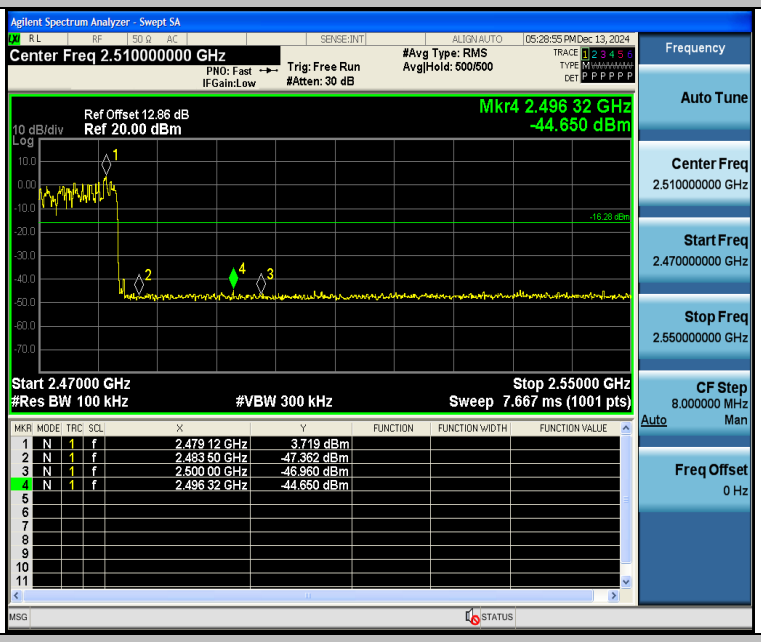

3DH5-Ant4-Hop_2480-PASS

14 Antenna Requirement

14.1 Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

The antenna is external Antenna which permanently attached, and the best case gain of the antenna is 2.74dBi. It complies with the standard requirement.

15 APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

16 APPENDIX II -- EUT PHOTOGRAPH

Please refer to separated files for External and Internal Photos of the EUT.

********THE END REPORT********