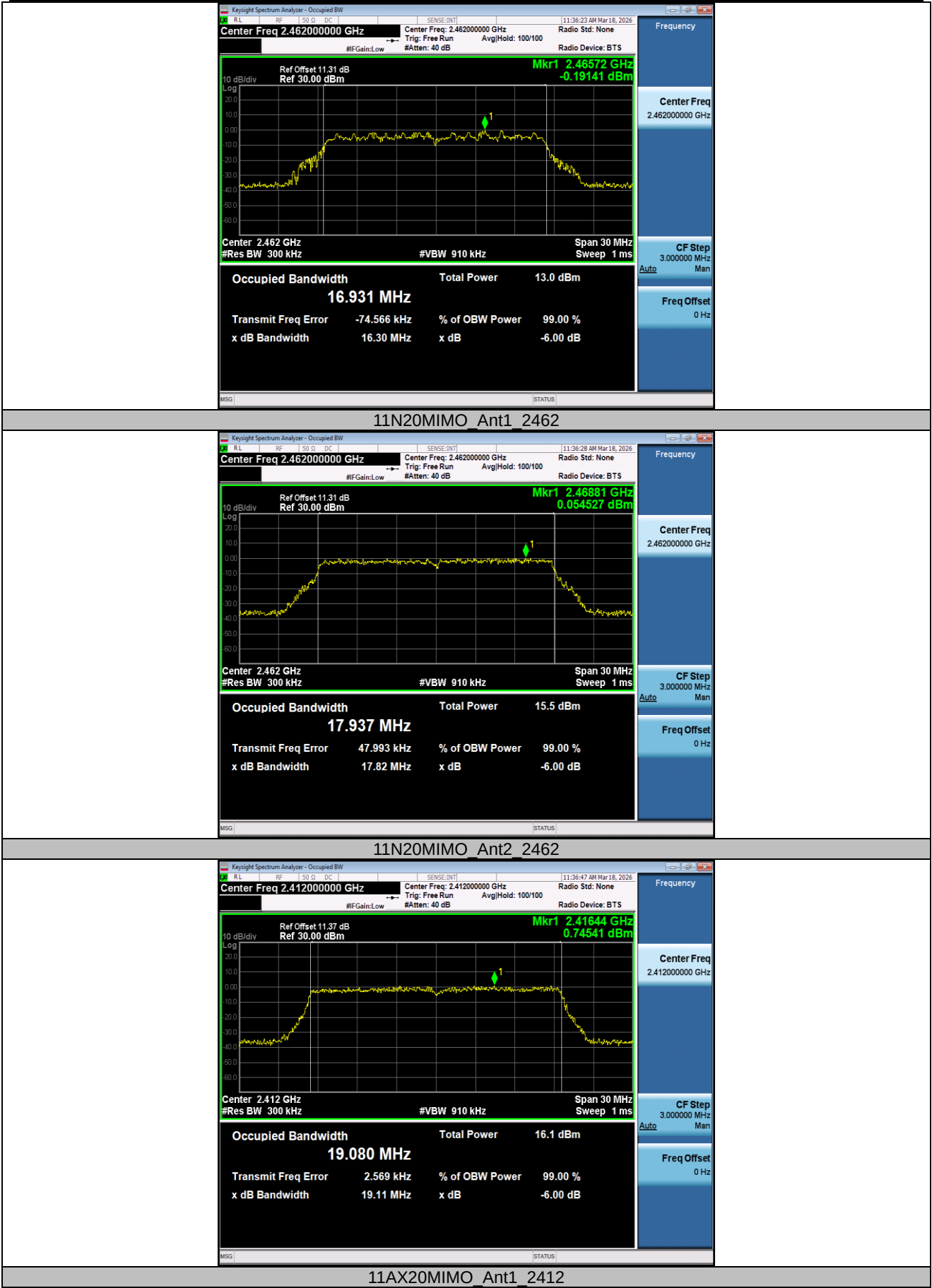
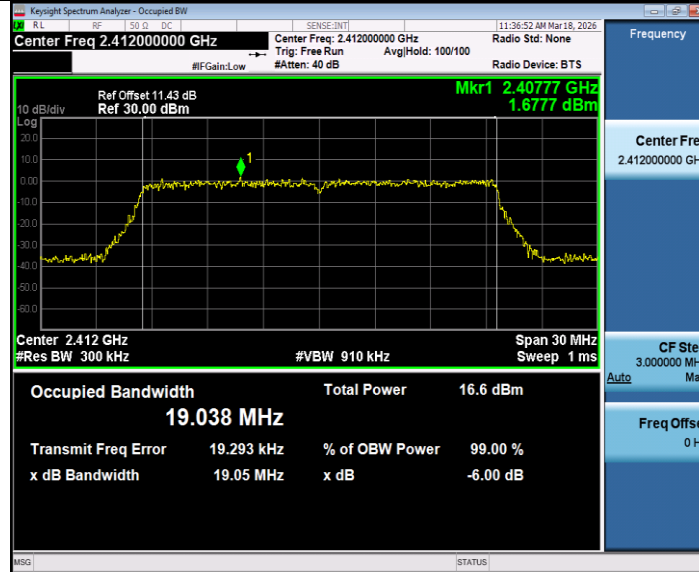
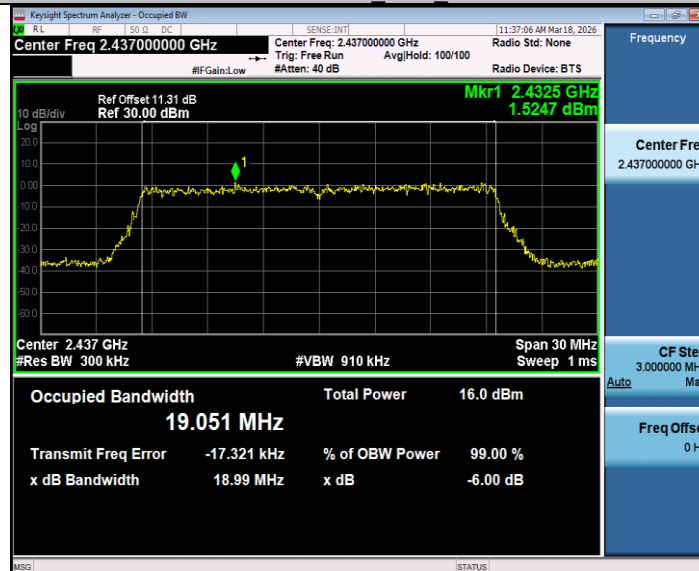


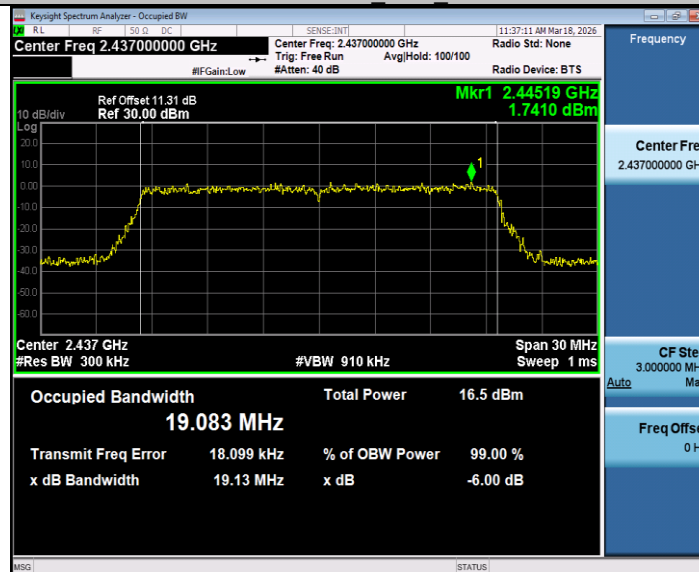




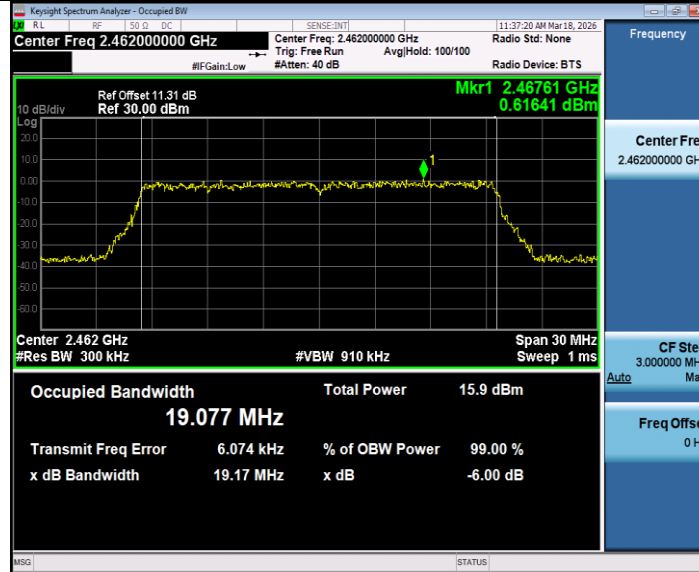
11AX20MIMO_Ant2_2412



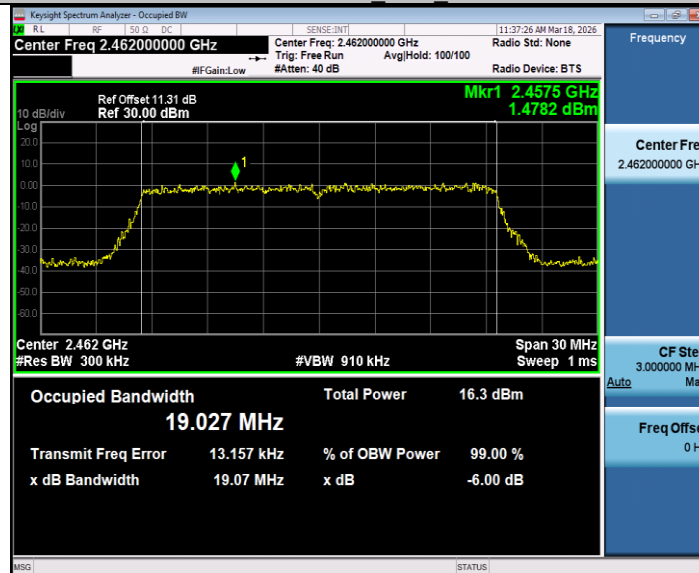
11AX20MIMO_Ant1_2437



11AX20MIMO_Ant2_2437



11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462

**8. PEAK OUTPUT POWER TEST**

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP**8.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of chapter 3, Unless otherwise a special operating condition is specified in the follows during the testing.



8.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 16.8V

Test Mode	Antenna	Frequency [MHz]	Peak Power[dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	18.61	18.61	≤30.00	PASS
	Ant2	2412	18.48	18.48	≤30.00	PASS
	Ant1	2437	18.56	18.56	≤30.00	PASS
	Ant2	2437	18.64	18.64	≤30.00	PASS
	Ant1	2462	18.65	18.65	≤30.00	PASS
	Ant2	2462	18.37	18.37	≤30.00	PASS
11G	Ant1	2412	15.80	15.80	≤30.00	PASS
	Ant2	2412	19.63	19.63	≤30.00	PASS
	Ant1	2437	15.27	15.27	≤30.00	PASS
	Ant2	2437	23.25	23.25	≤30.00	PASS
	Ant1	2462	23.02	23.02	≤30.00	PASS
	Ant2	2462	23.10	23.10	≤30.00	PASS
11N20MI MO	Ant1	2412	19.63	19.63	≤30.00	PASS
	Ant2	2412	20.15	20.15	≤30.00	PASS
	total	2412	---	22.91	≤30.00	PASS
	Ant1	2437	23.37	23.37	≤30.00	PASS
	Ant2	2437	23.71	23.71	≤30.00	PASS
	total	2437	---	26.55	≤30.00	PASS
	Ant1	2462	23.07	23.07	≤30.00	PASS
	Ant2	2462	22.96	22.96	≤30.00	PASS
	total	2462	---	23.46	≤30.00	PASS
11AX20MI MO	Ant1	2412	24.05	24.05	≤30.00	PASS
	Ant2	2412	25.29	25.29	≤30.00	PASS
	total	2412	---	27.72	≤30.00	PASS
	Ant1	2437	24.25	24.25	≤30.00	PASS
	Ant2	2437	25.38	25.38	≤30.00	PASS
	total	2437	---	27.86	≤30.00	PASS
	Ant1	2462	24.11	24.11	≤30.00	PASS
	Ant2	2462	25.07	25.07	≤30.00	PASS
	total	2462	---	27.63	≤30.00	PASS



9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

9.1 APPLICABLE STANDARD

Typical regulatory requirements specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions⁸⁹:

The maximum peak conducted output power procedure was used to determine compliance as described in 11.9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

9.2 TEST PROCEDURE

A. Reference level measurement, establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

B. Emission level measurement, establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

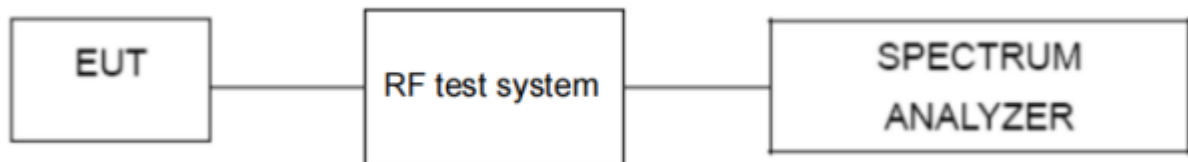
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of chapter 3, Unless otherwise a special operating condition is specified in the follows during the testing.

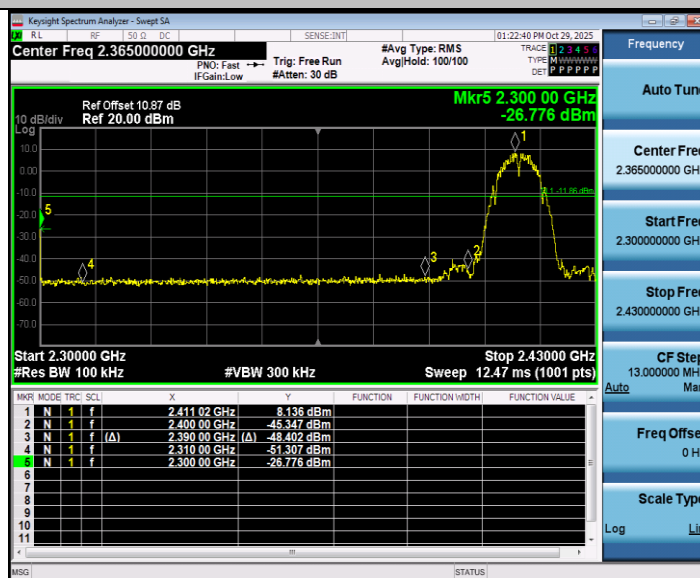


9.6 TEST RESULTS

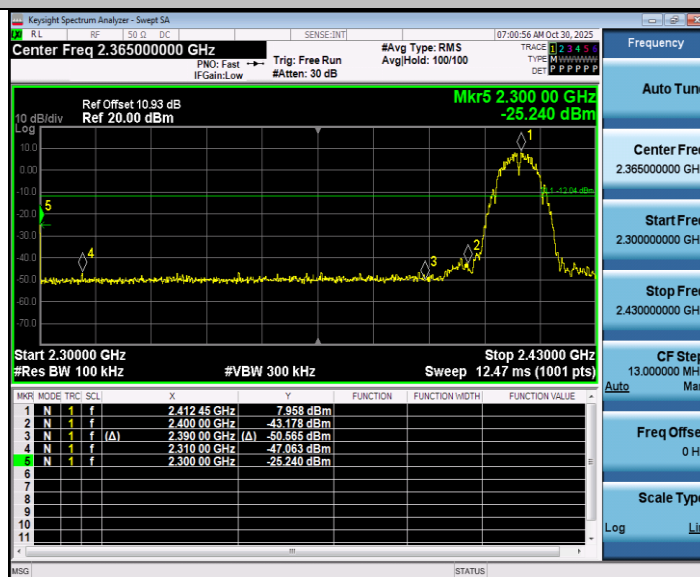
Band edge test plot as follows:

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 16.8V

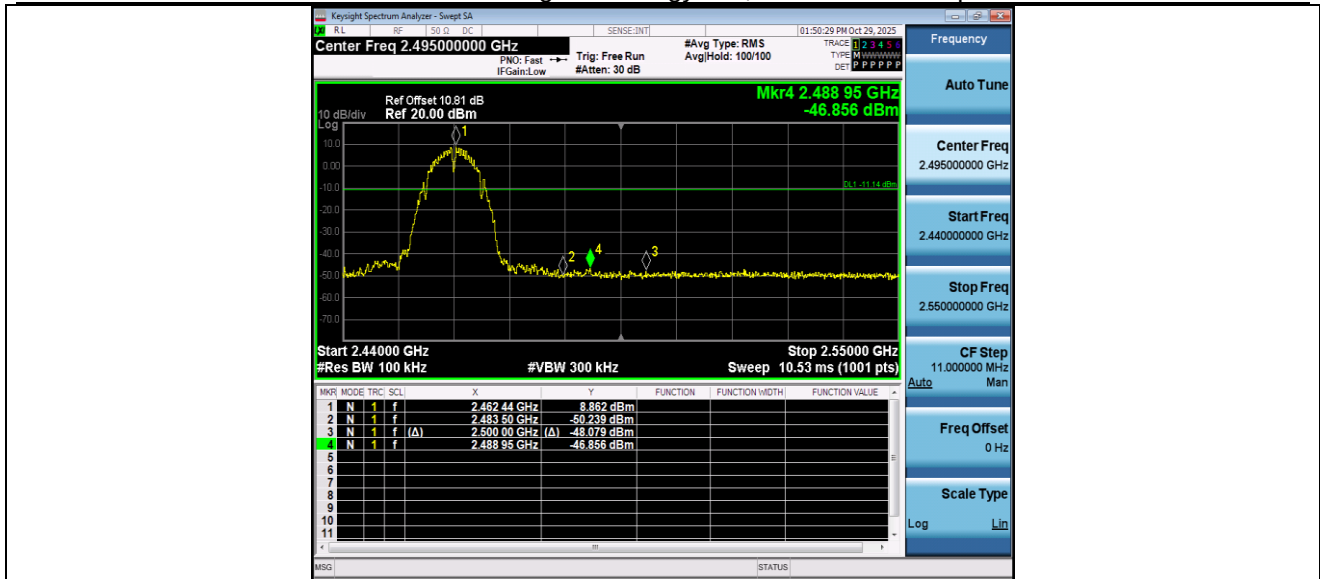
11B_Ant1_Low_2412



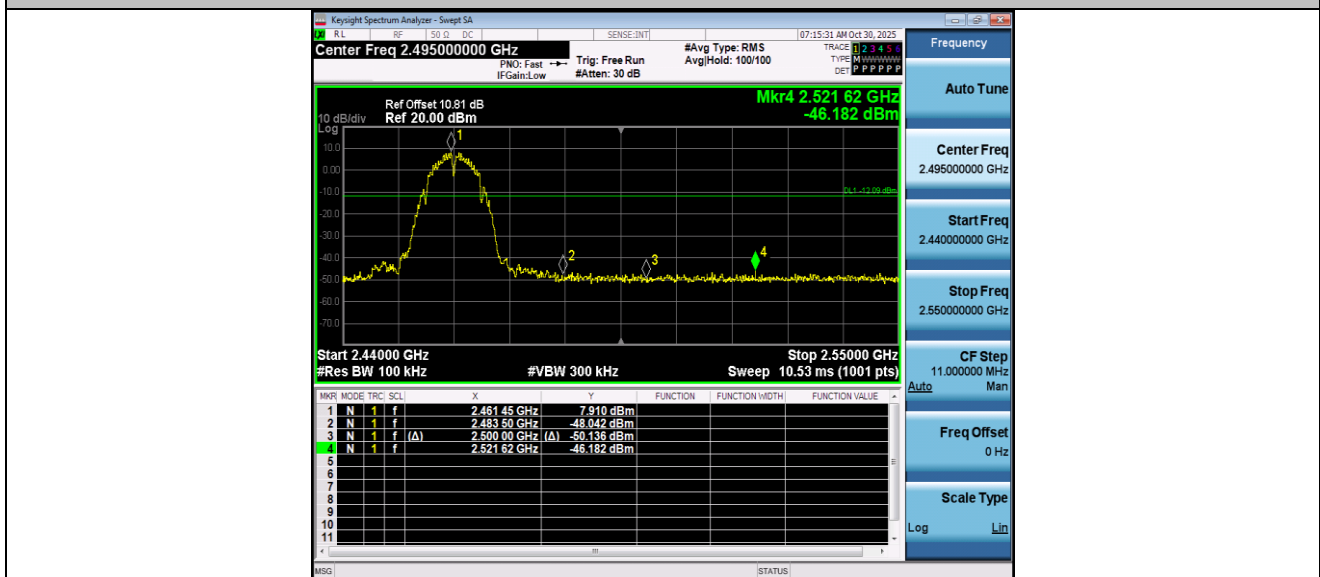
11B_Ant2_Low_2412



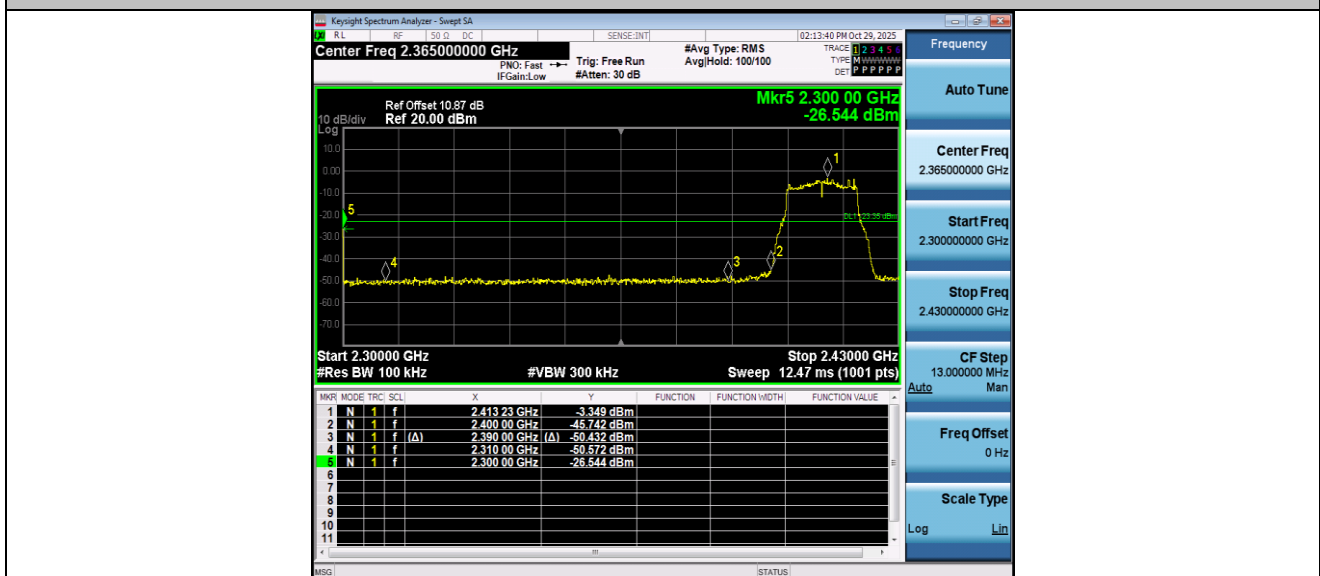
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11B_Ant2_High_2462

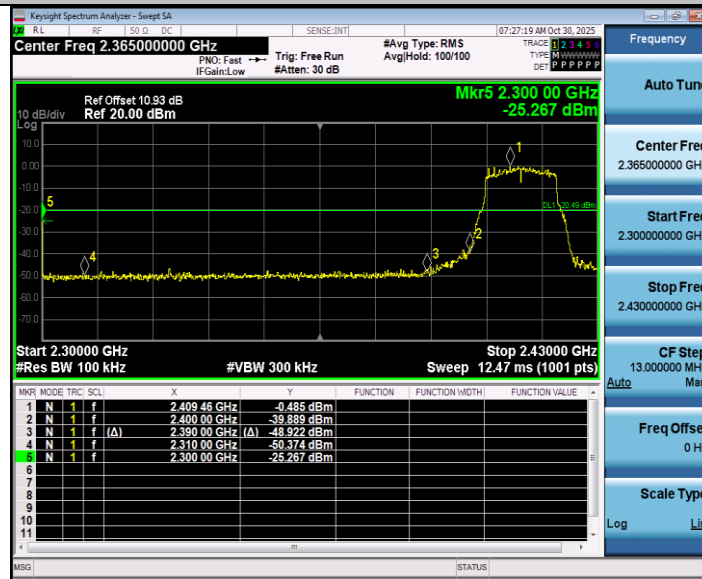


11G_Ant1_Low_2412

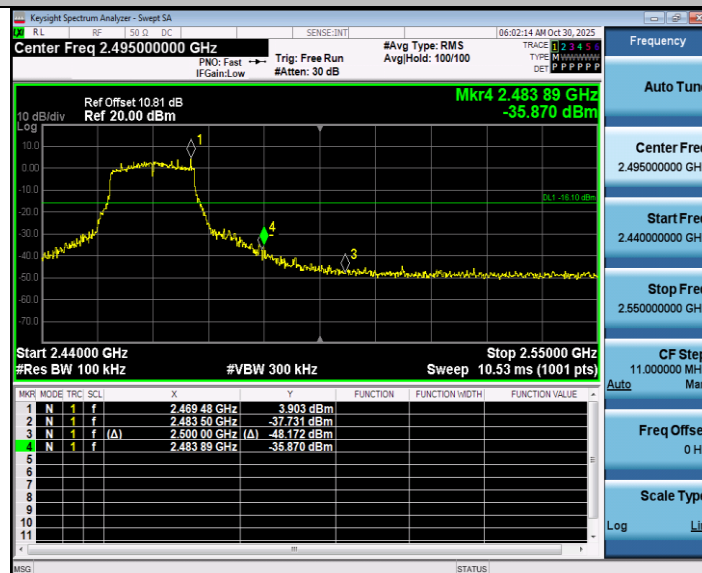




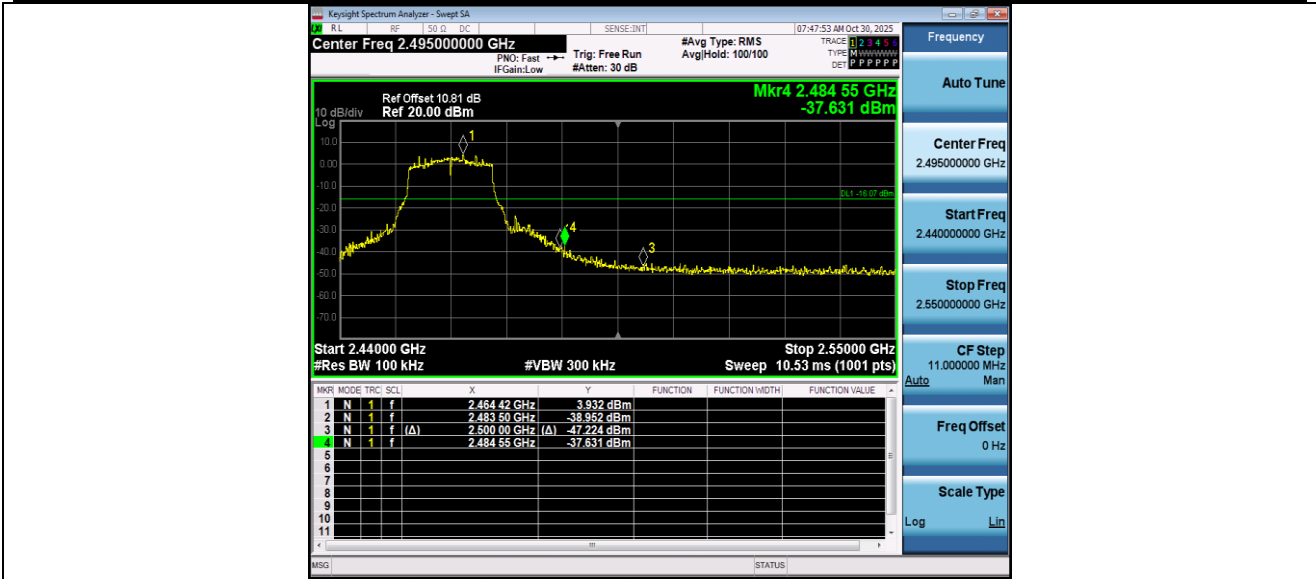
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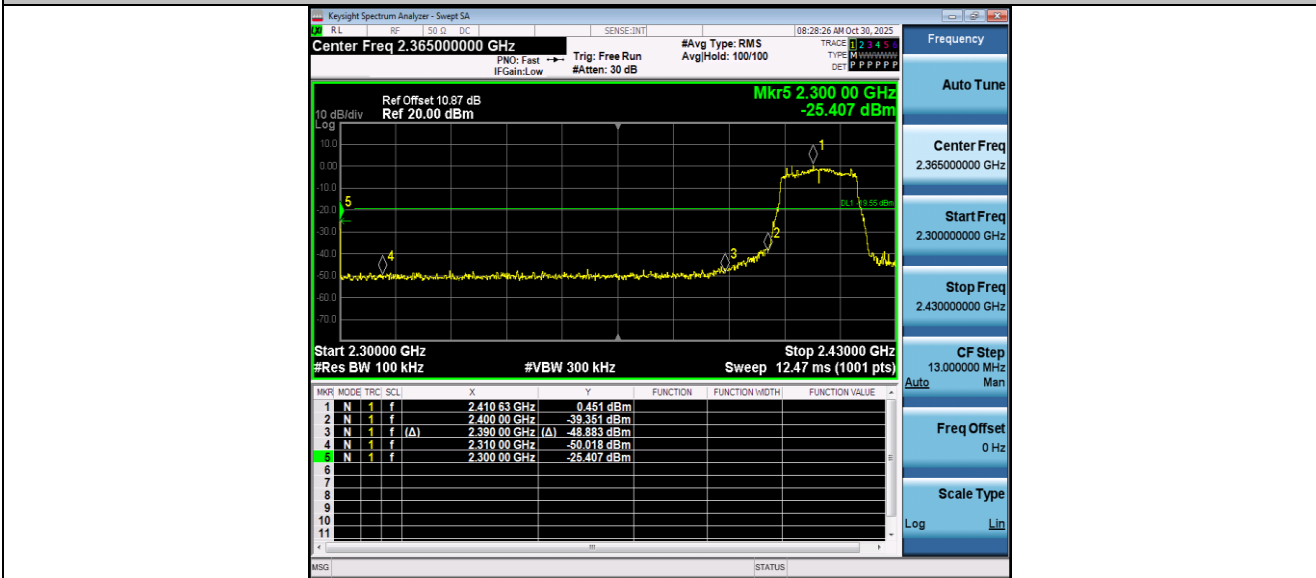
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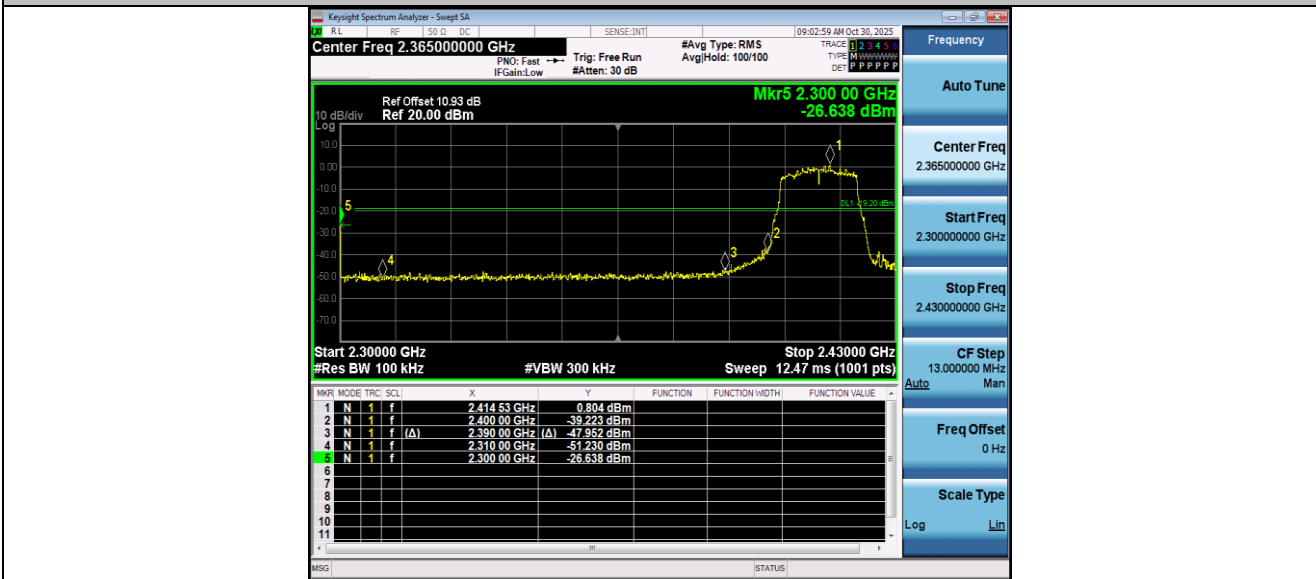
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11N20MIMO_Ant1_Low_2412

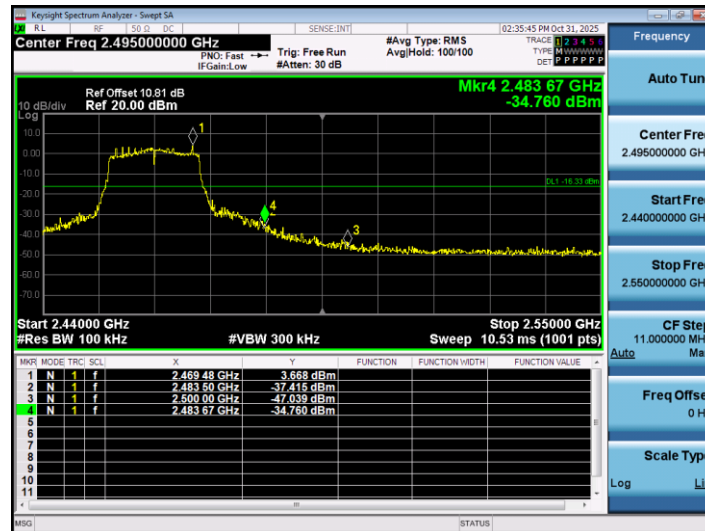


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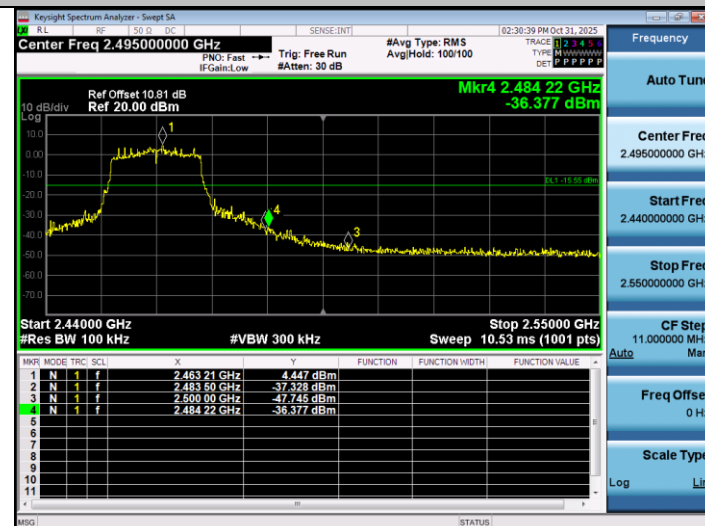




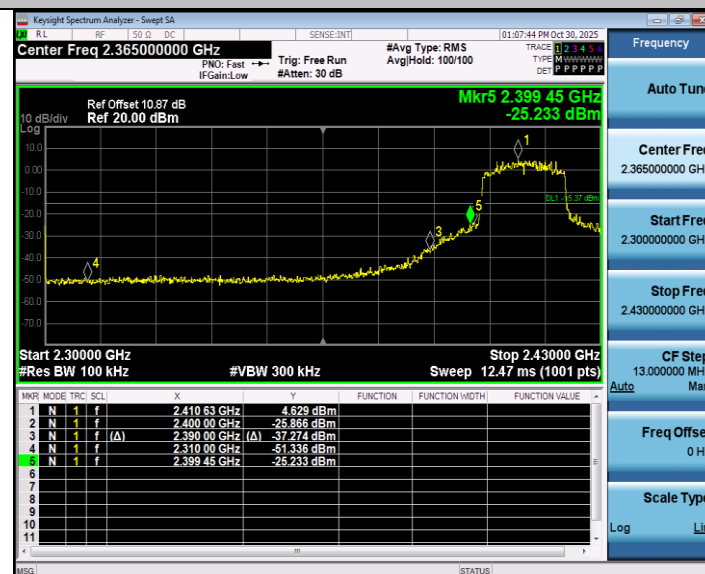
11N20MIMO_Ant1_High_2462



11N20MIMO_Ant2_High_2462



11AX20MIMO_Ant1_Low_2412





11AX20MIMO_Ant2_Low_2412



11AX20MIMO_Ant1_High_2462



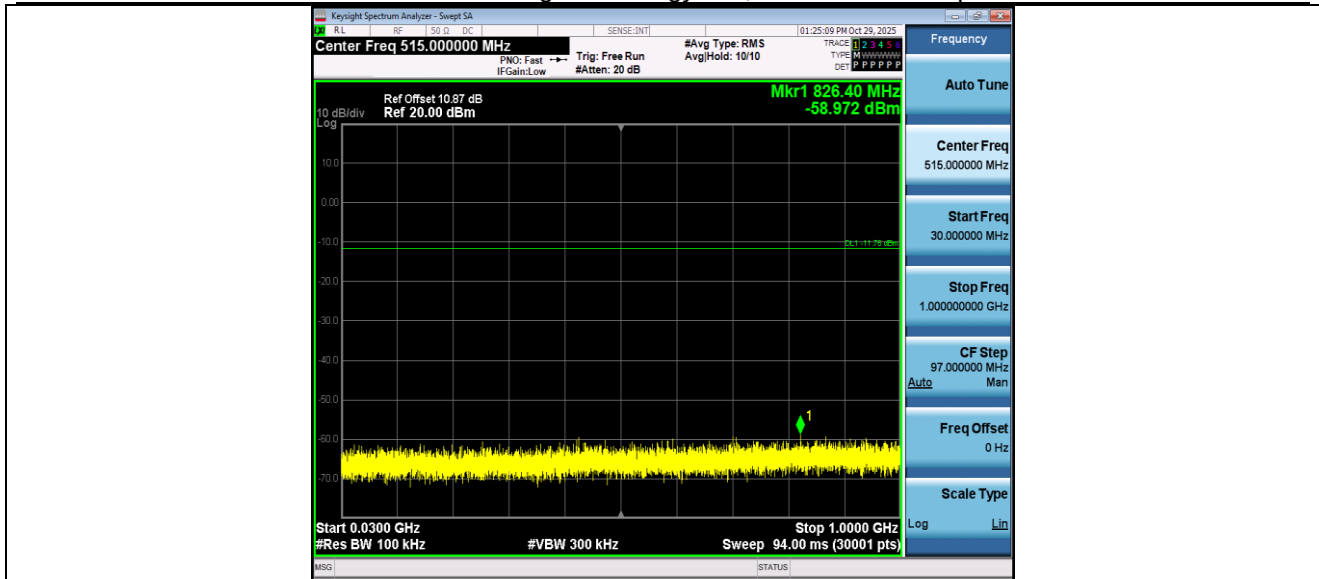
11AX20MIMO_Ant2_High_2462



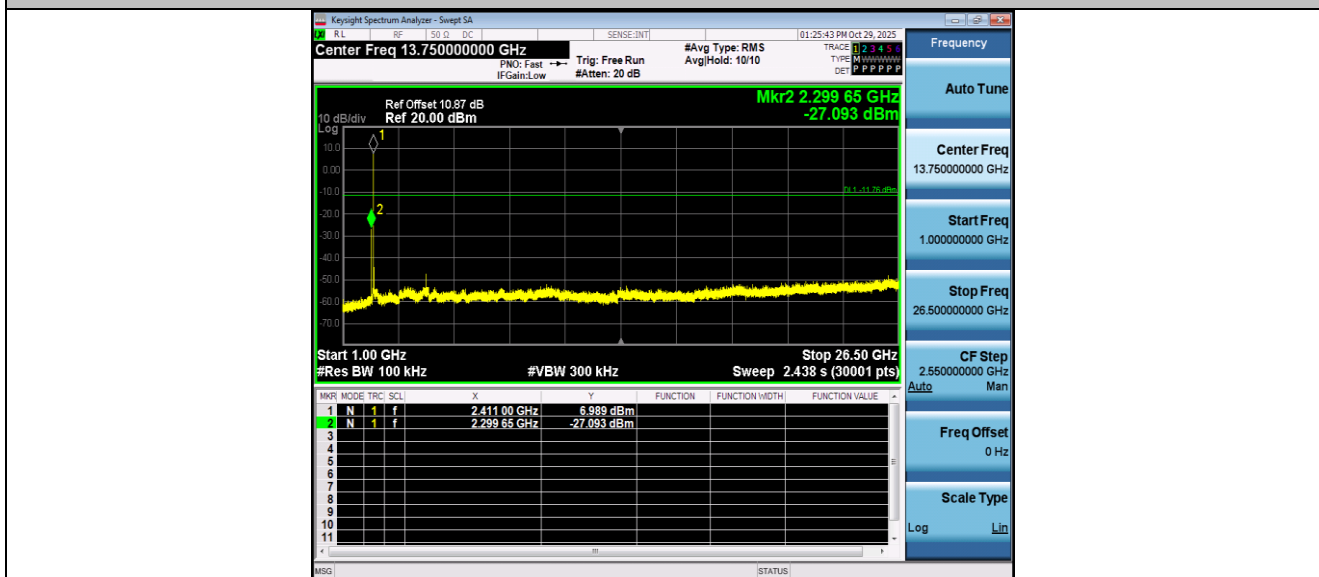
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11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

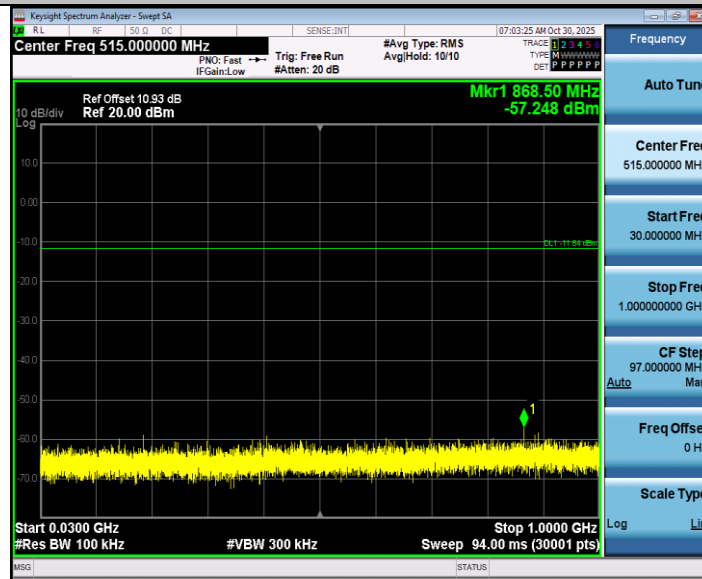


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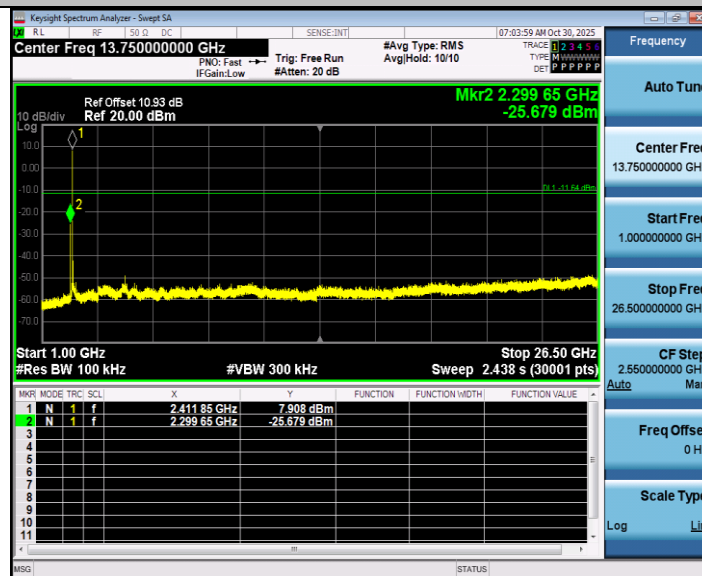




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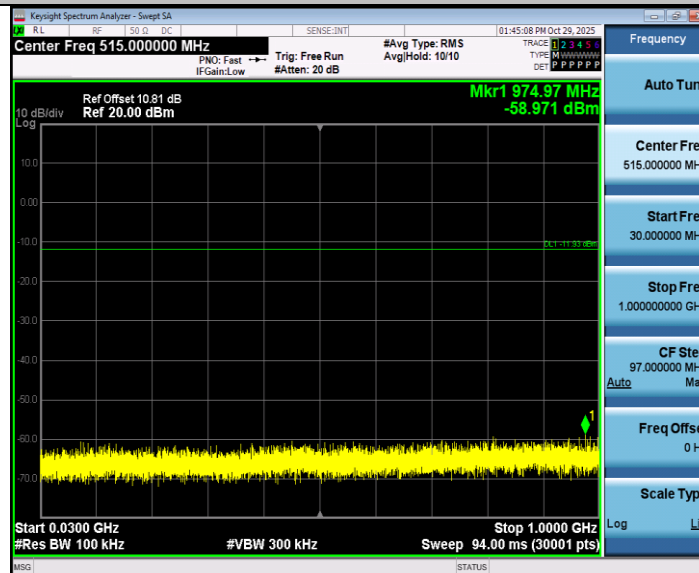
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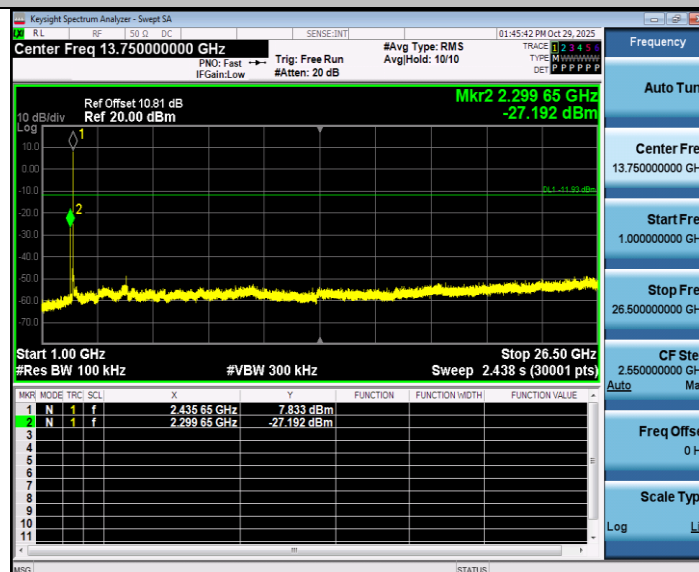
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11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500

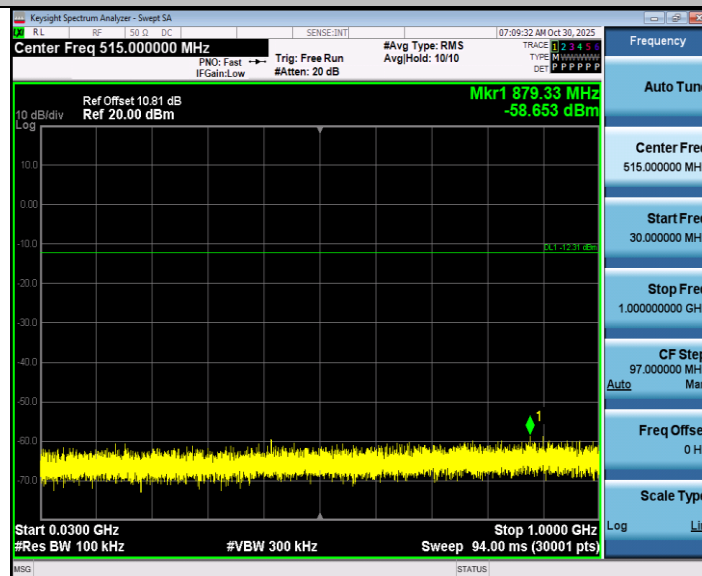




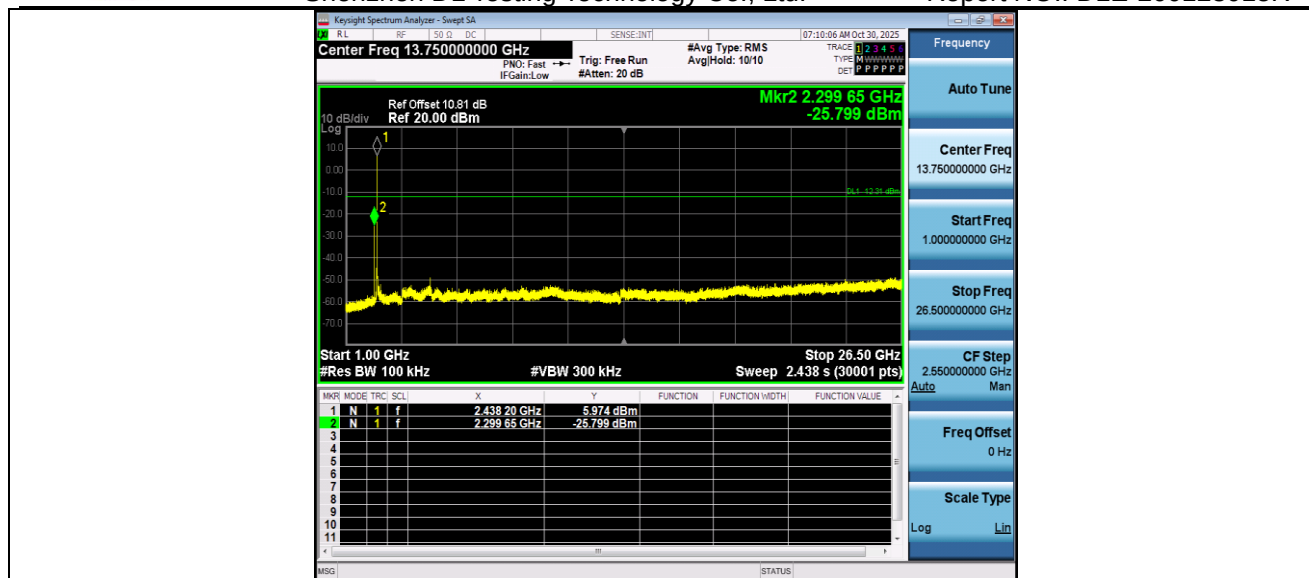
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11B_Ant2_2437_30~1000



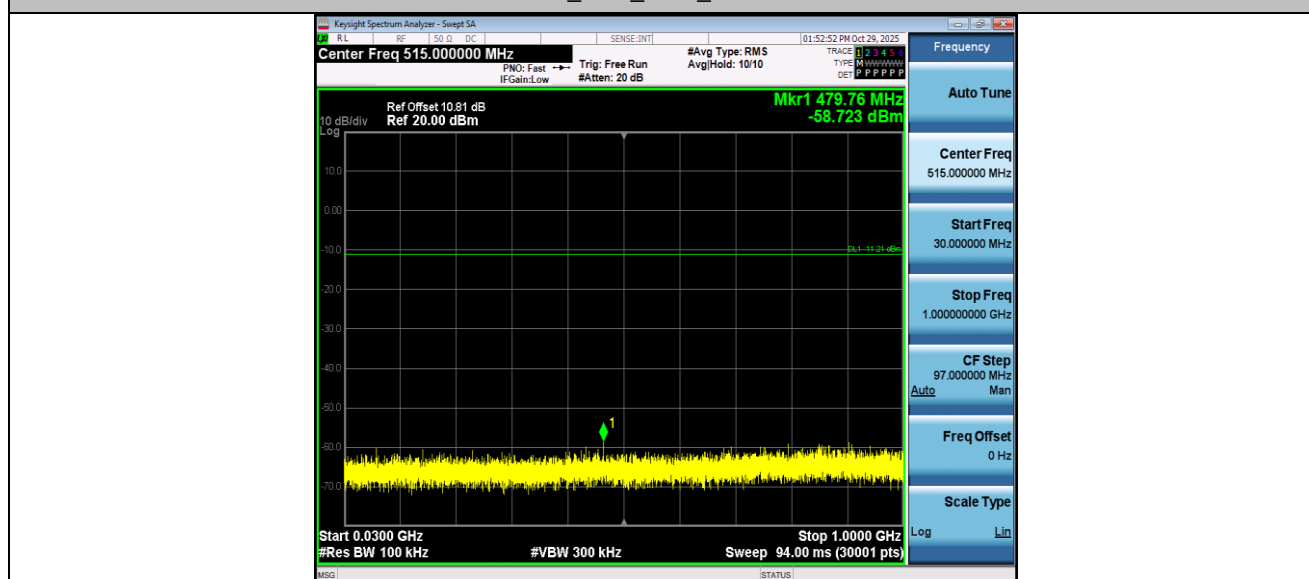
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11B_Ant1_2462_0~Reference

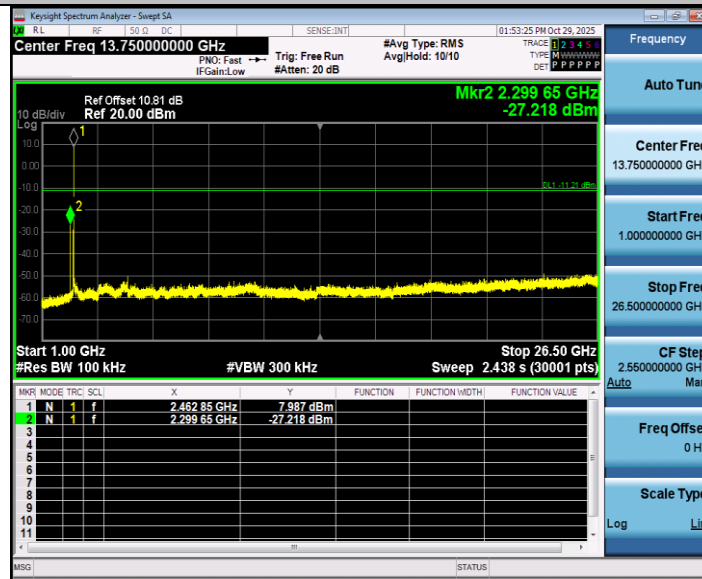


11B_Ant1_2462_30~1000





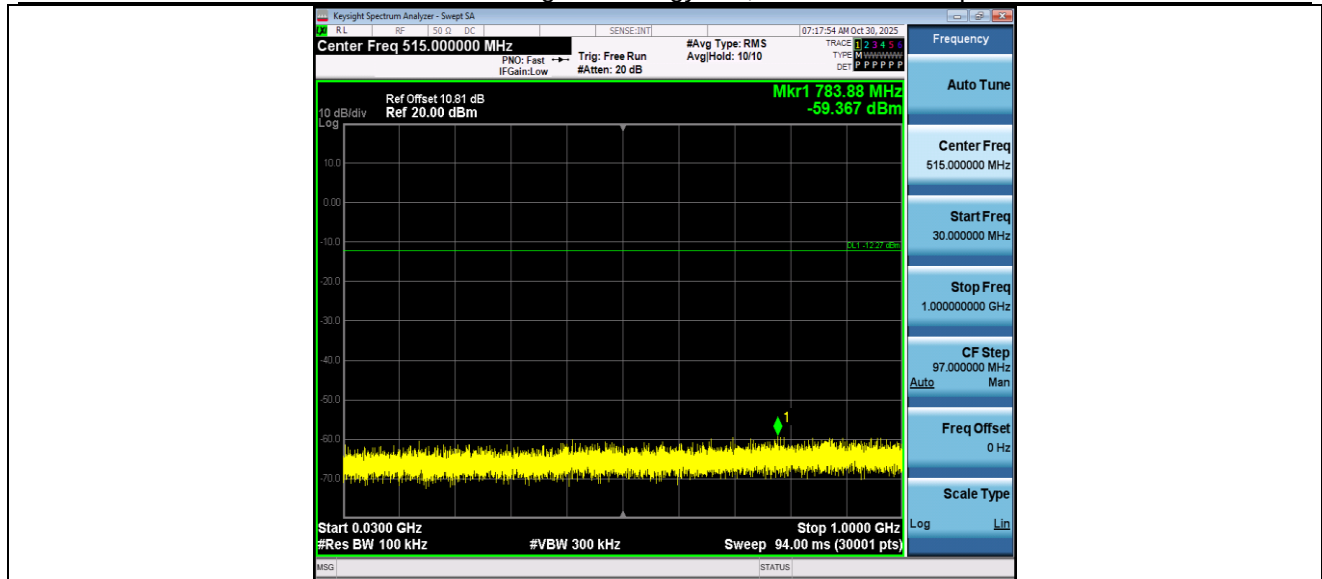
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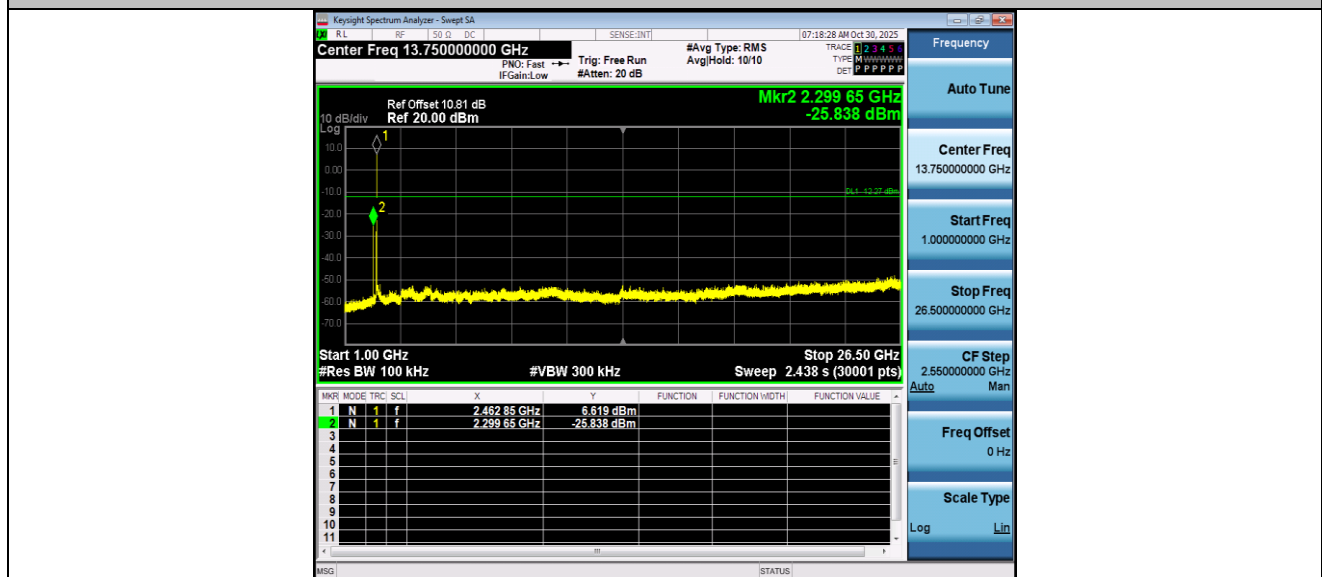
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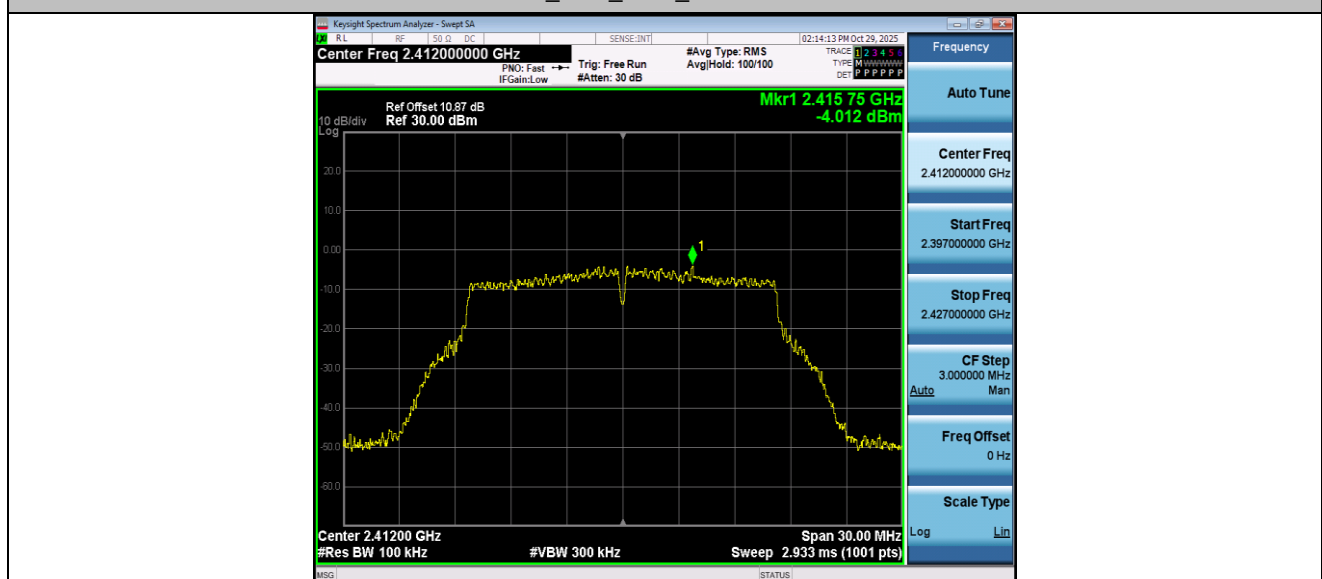
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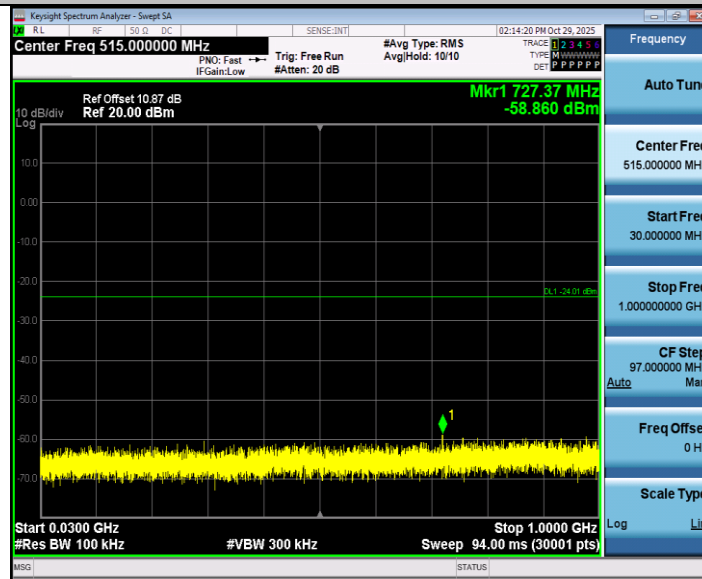


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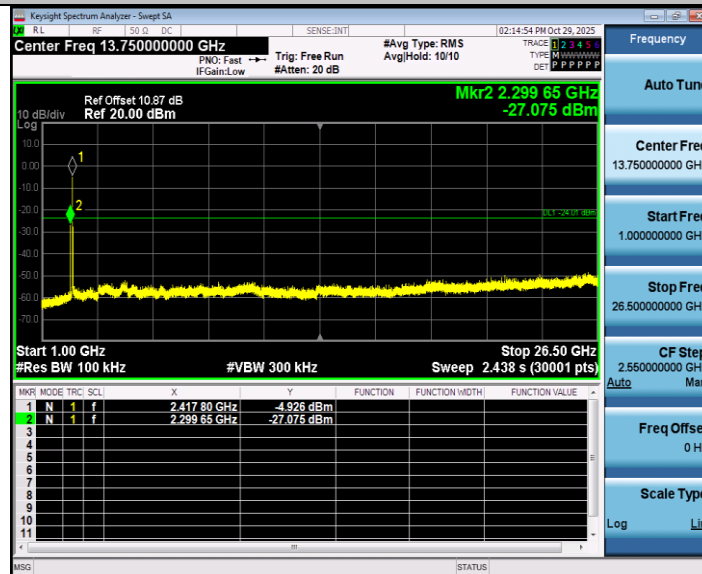




11G_Ant1_2412_30~1000



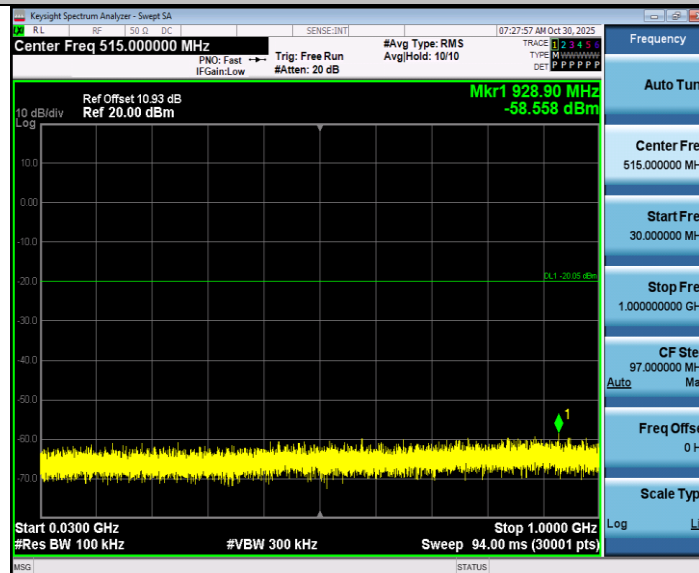
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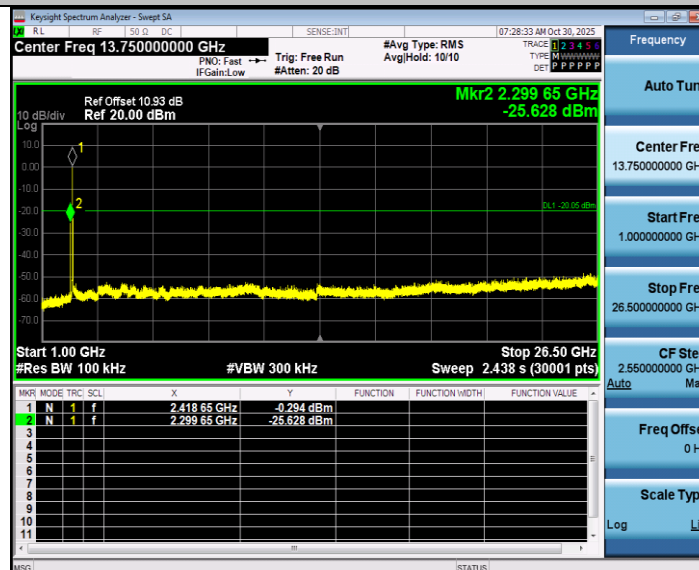
11G_Ant2_2412_0~Reference



11G_Ant2_2412_30~1000



11G_Ant2_2412_1000~26500

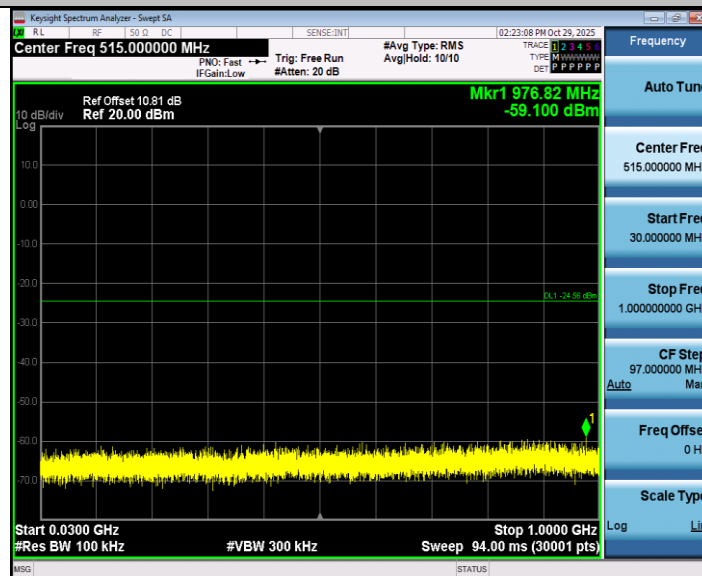




11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500