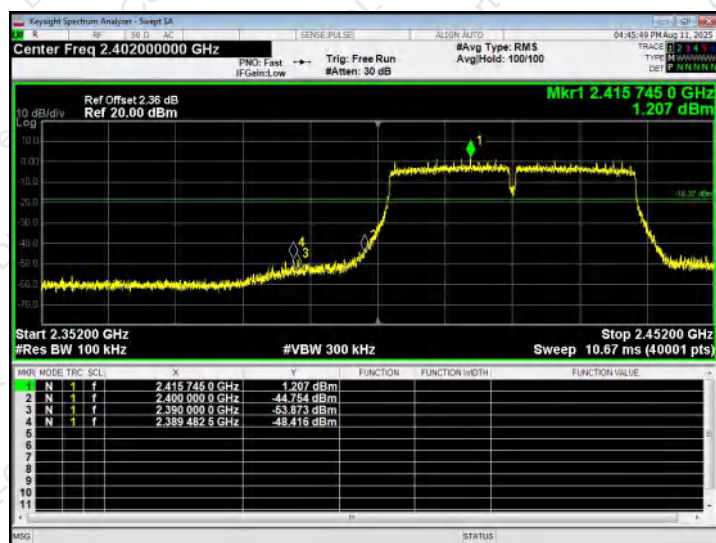
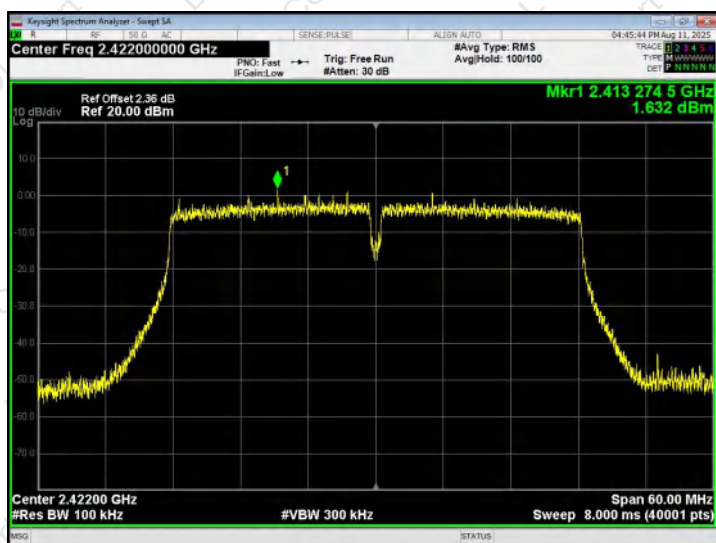


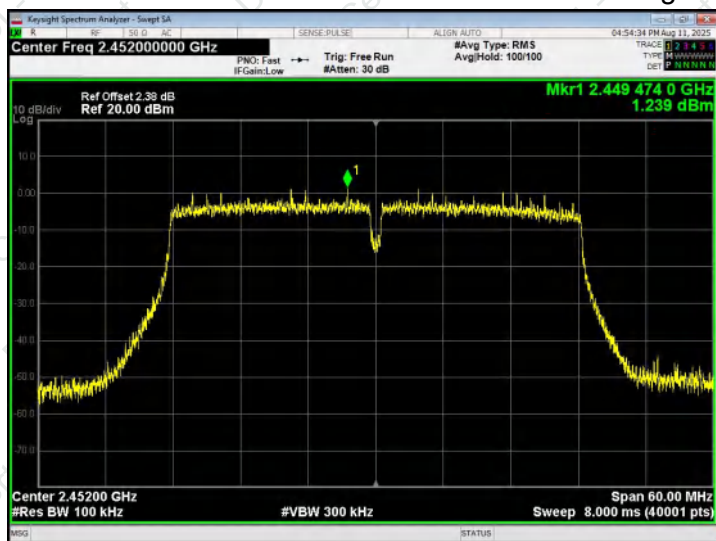


MIMO A - 802.11n40

Lowest channel



Highest channel

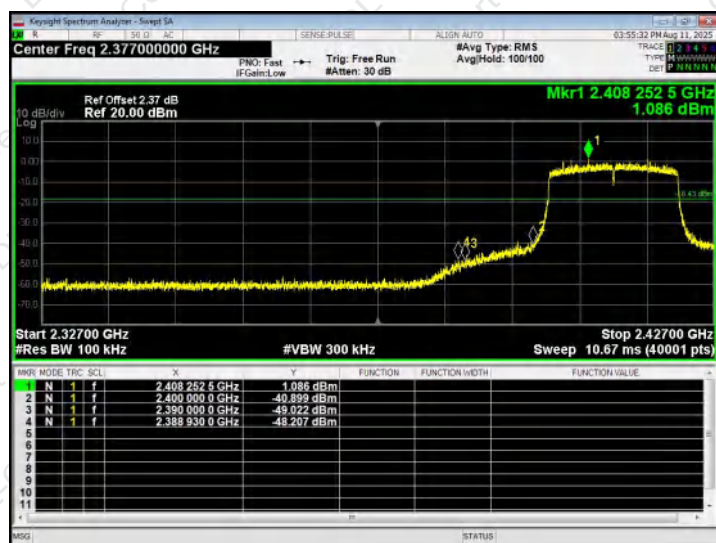
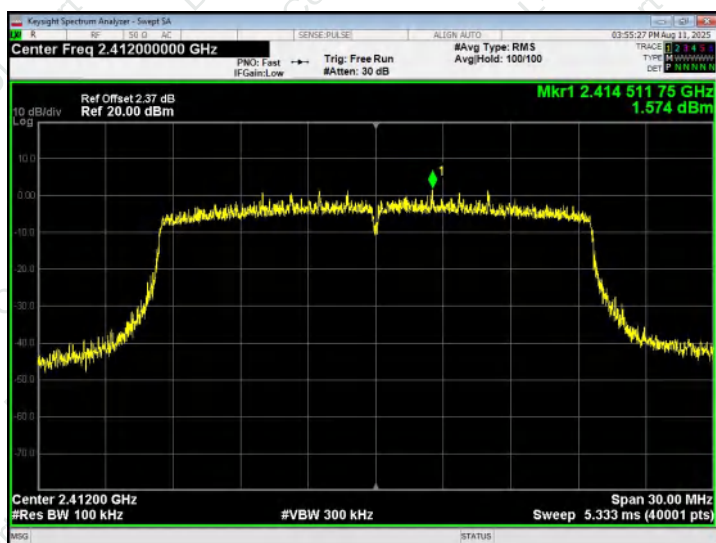


Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.

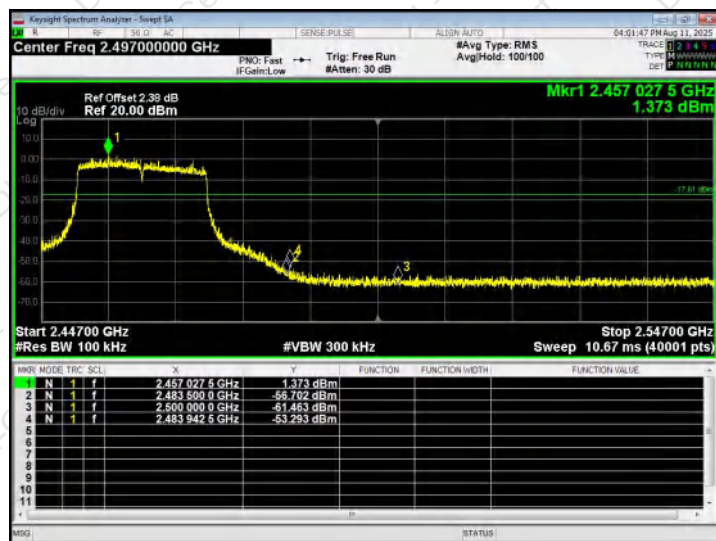
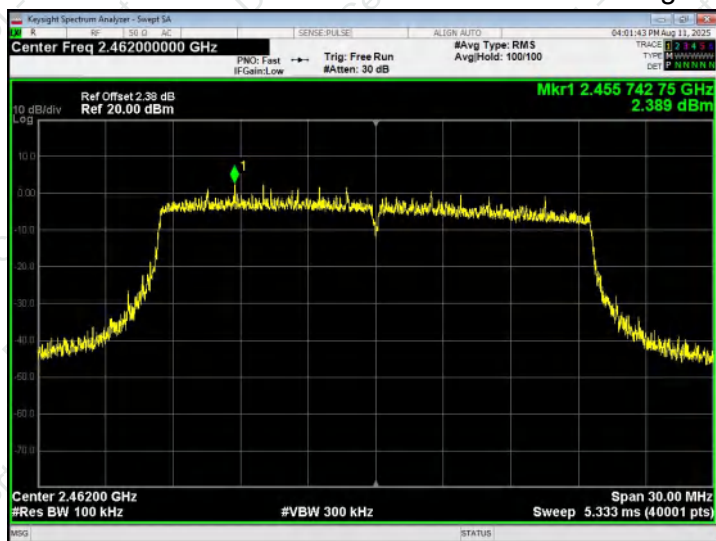


SISO ANT A - 802.11ax20

Lowest channel



Highest channel

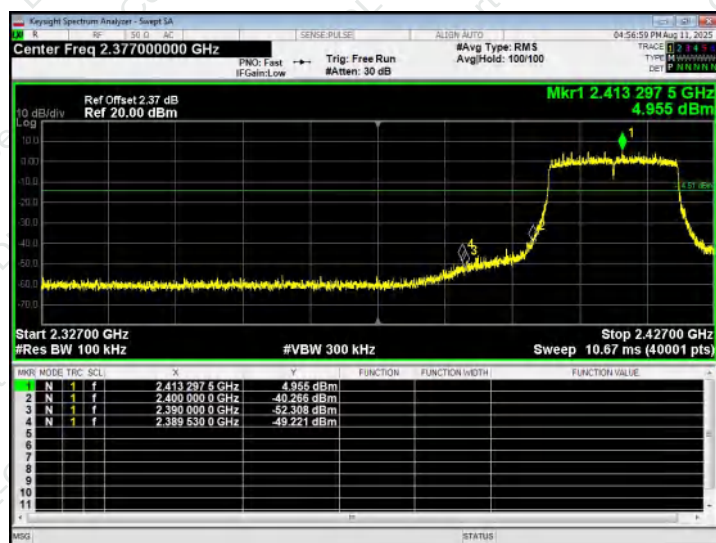
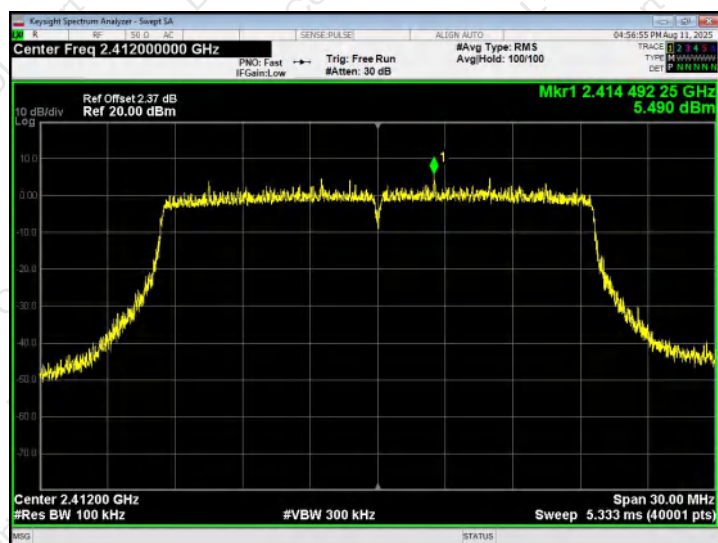


Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.

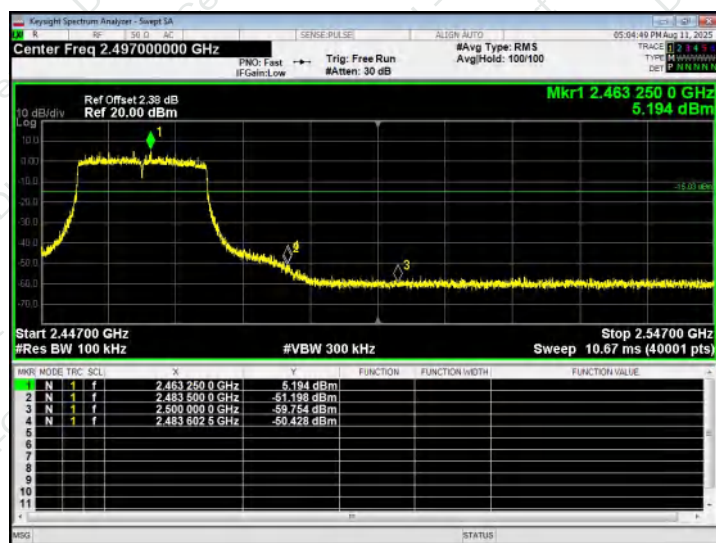
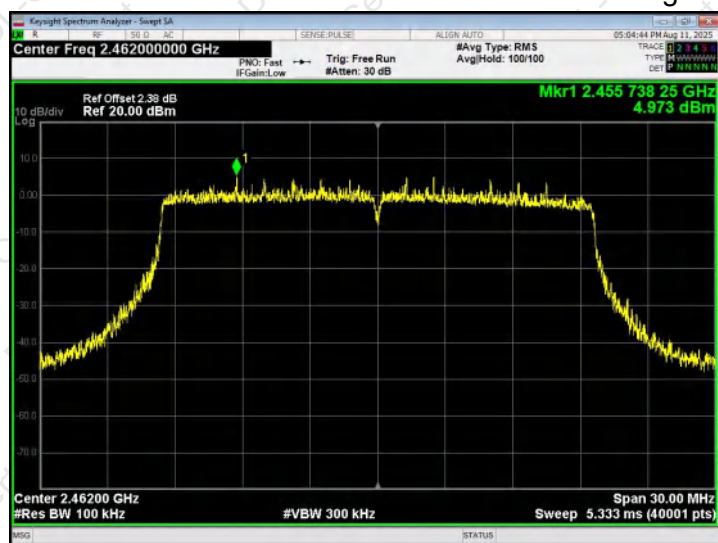


MIMO A - 802.11ax20

Lowest channel



Highest channel

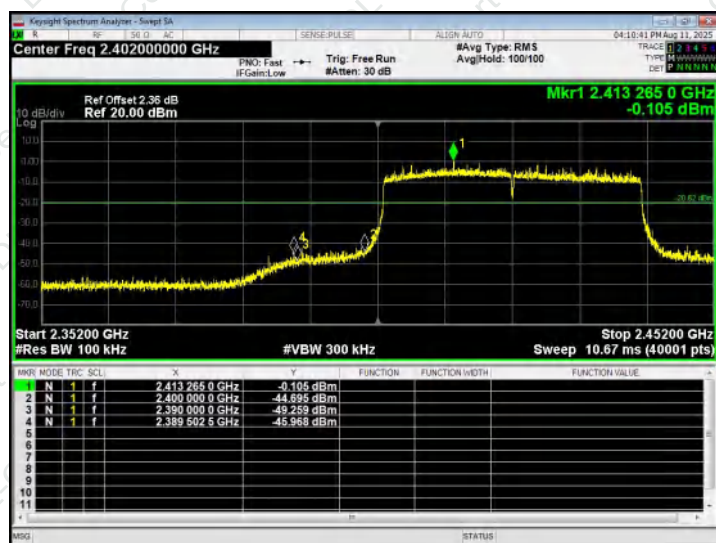
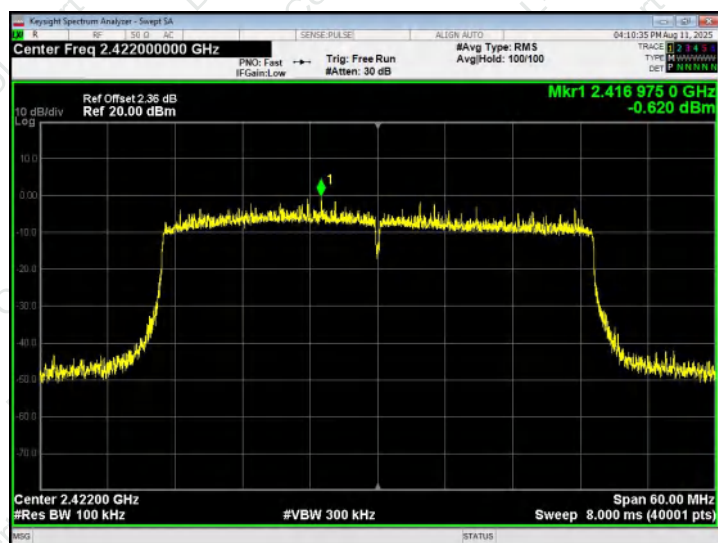


Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.

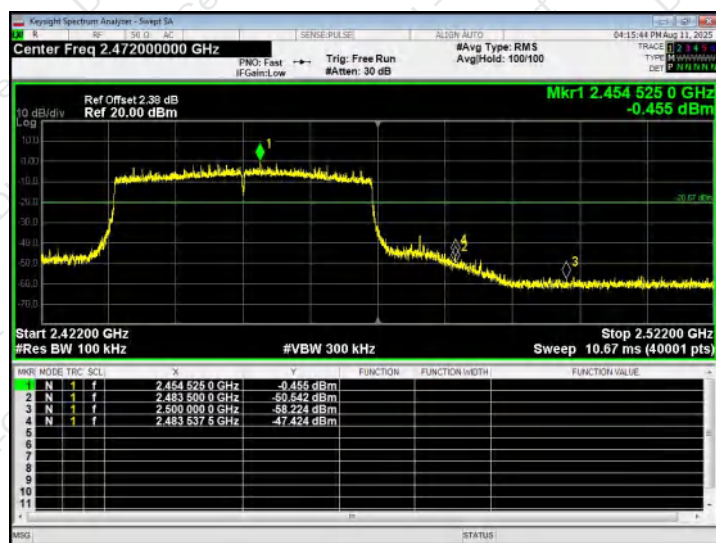
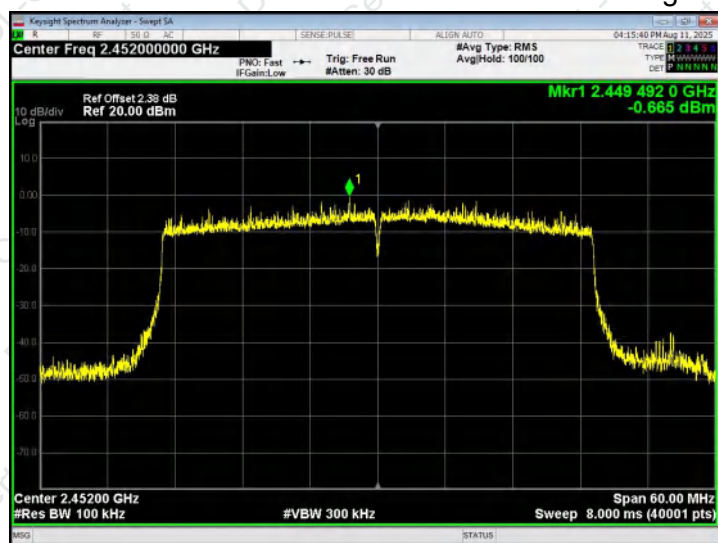


SISO ANT A - 802.11ax40

Lowest channel



Highest channel

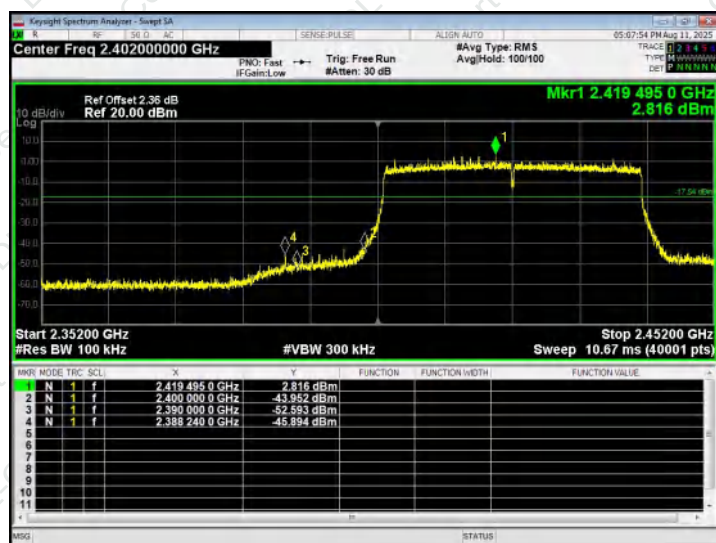
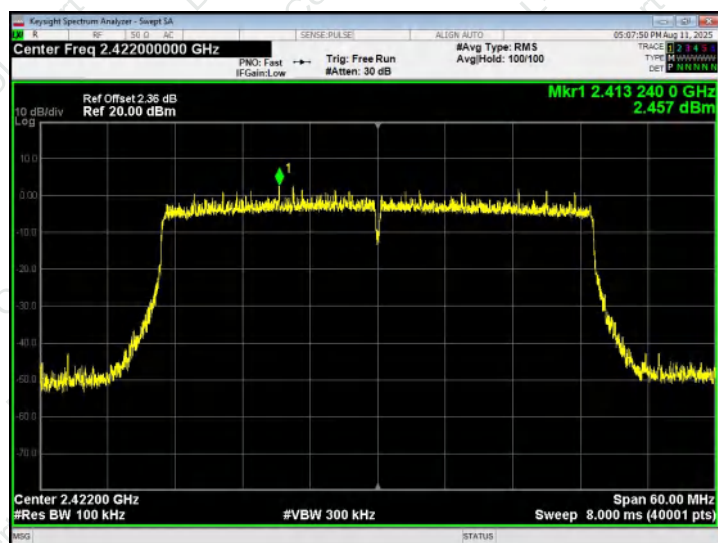


Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.

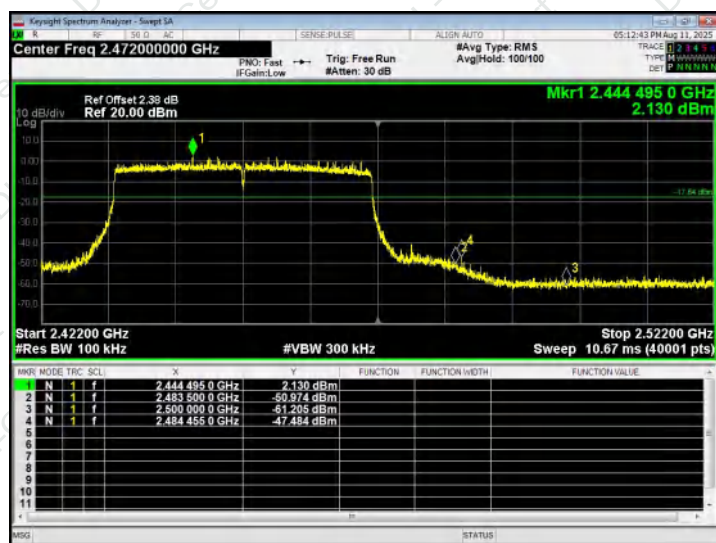


MIMO A - 802.11ax40

Lowest channel



Highest channel

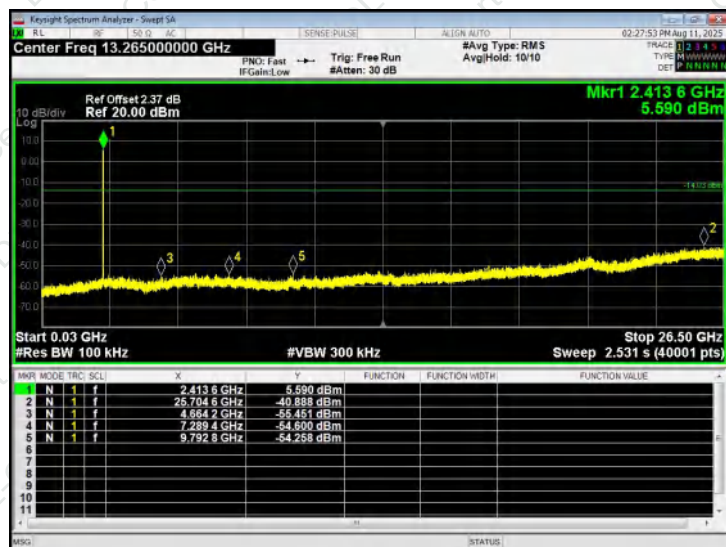
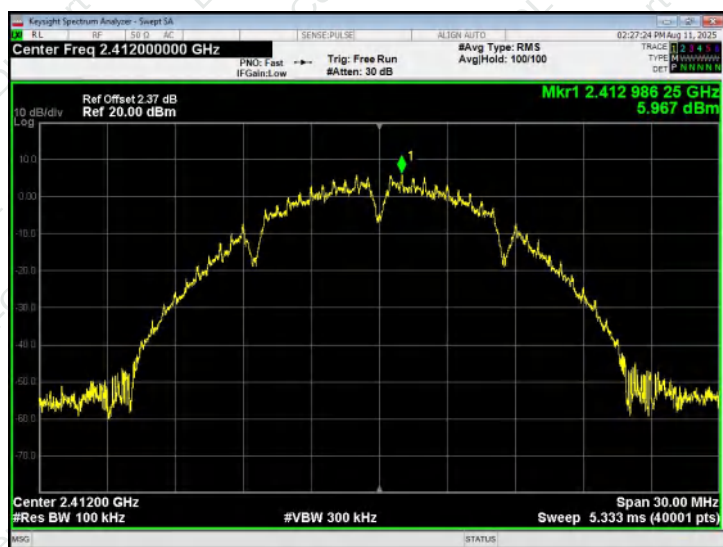


Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.

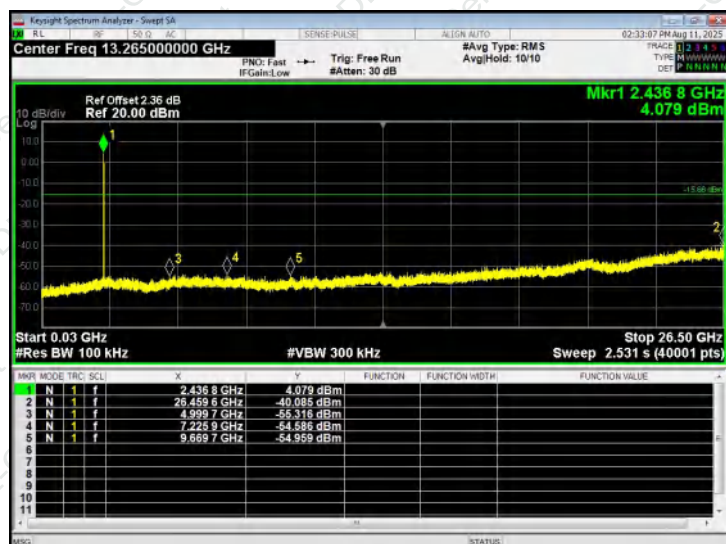
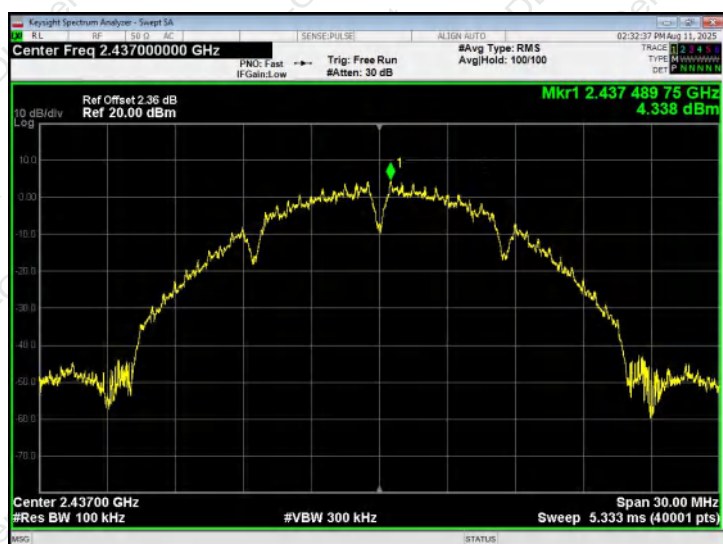


SISO ANT A - 802.11b

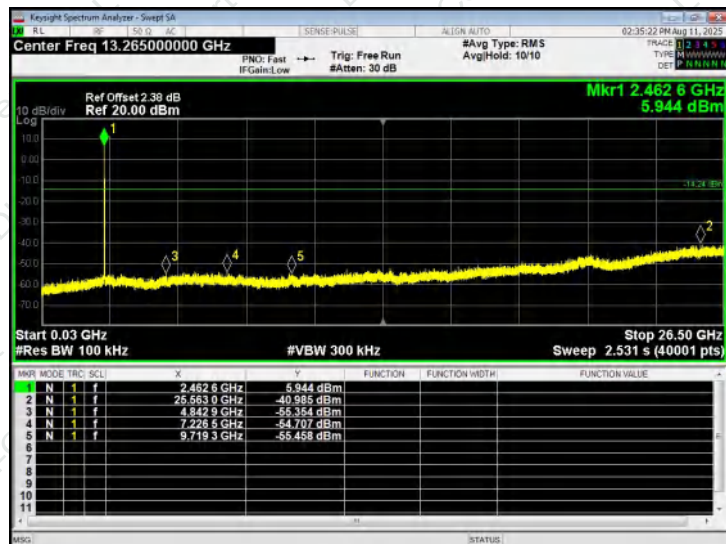
Lowest channel



Middle channel



Highest channel

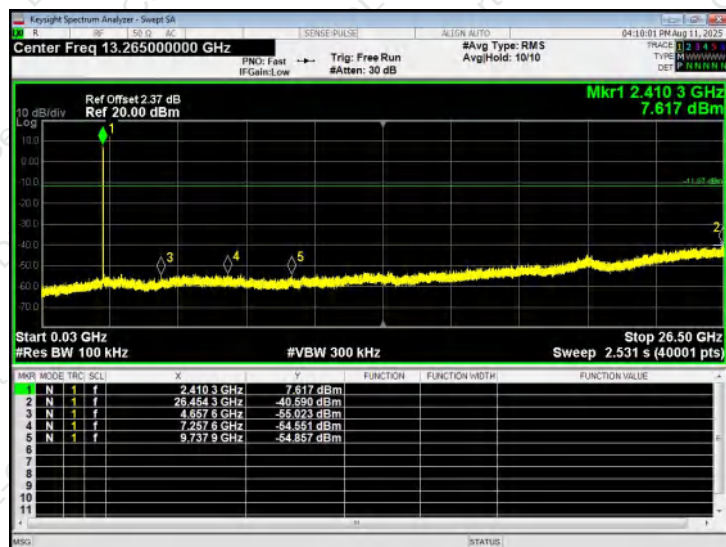
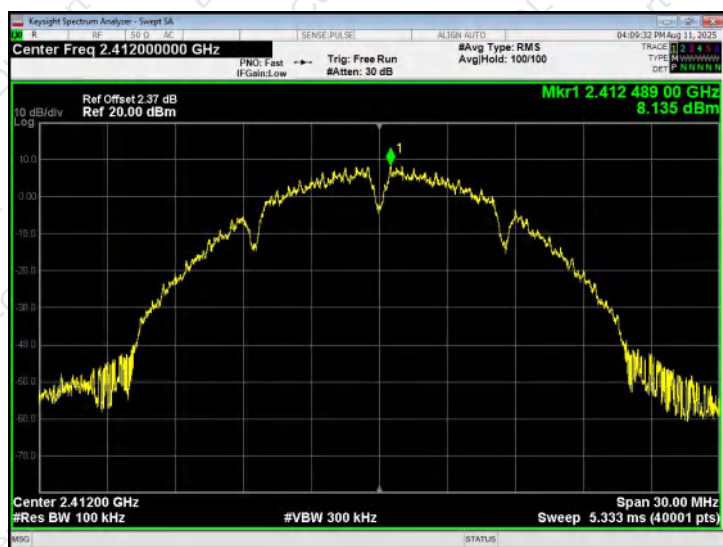


30MHz ~ 26.5GHz

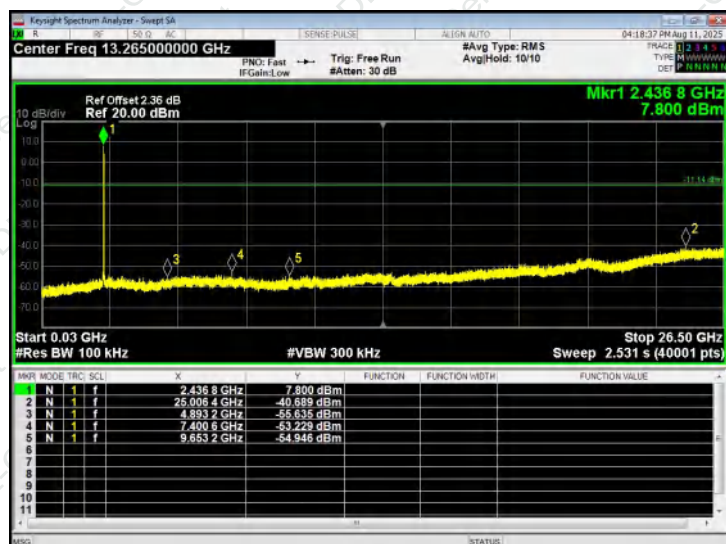
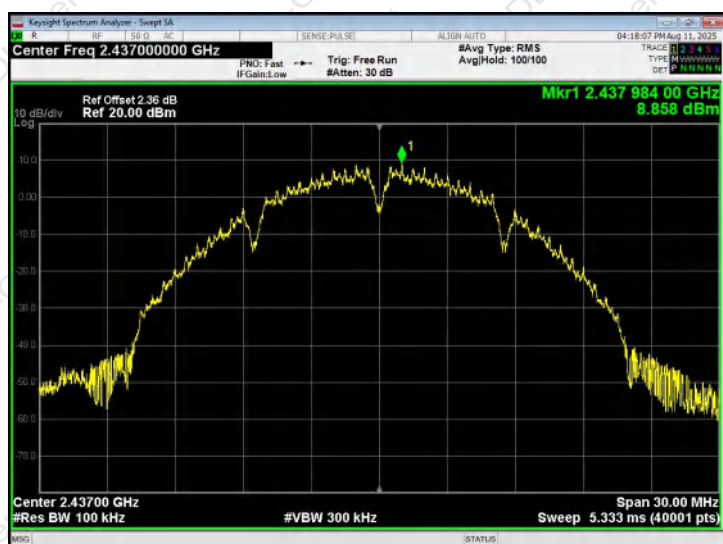


SISO ANT B - 802.11b

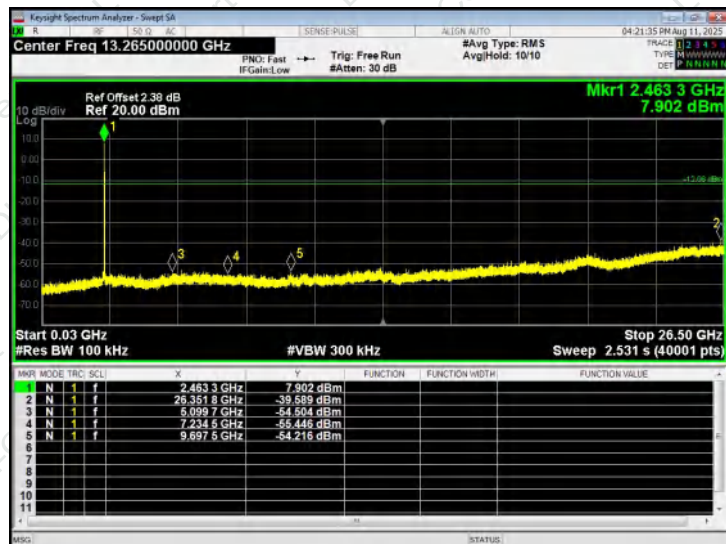
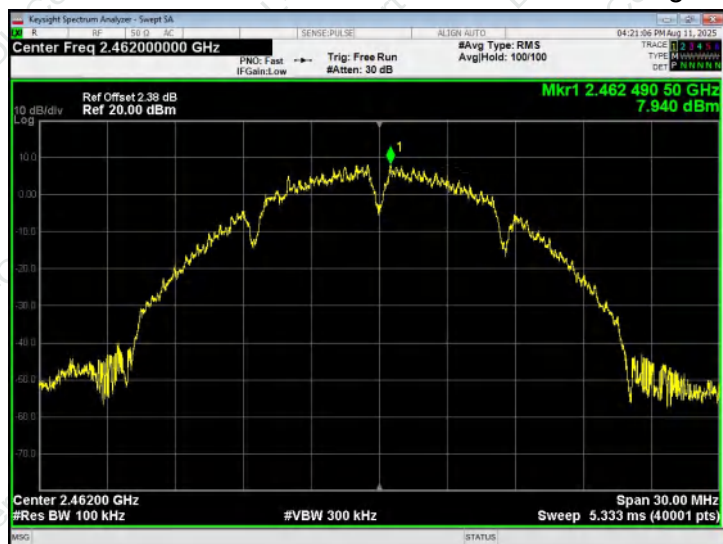
Lowest channel



Middle channel



Highest channel

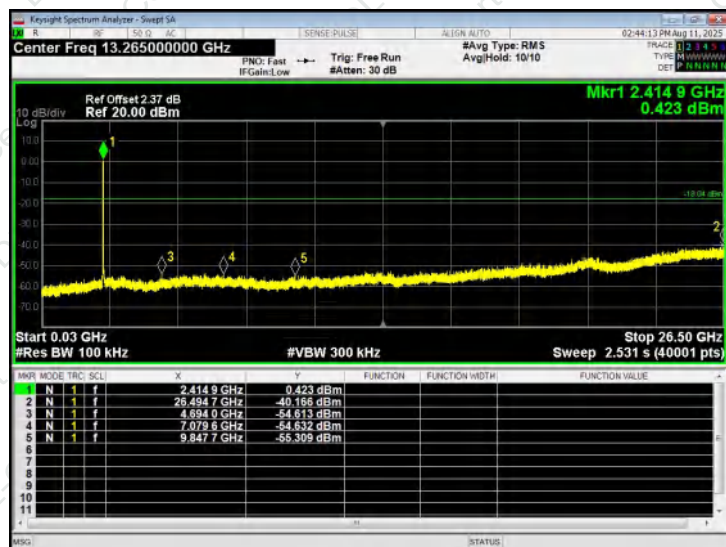
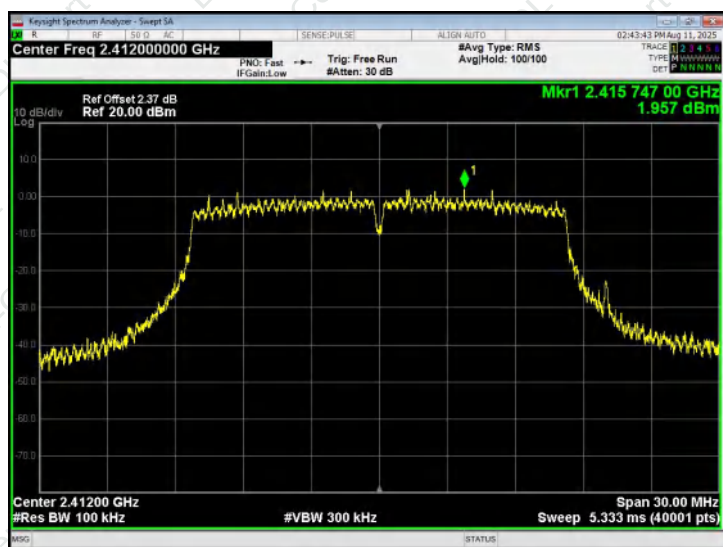


30MHz ~ 26.5GHz

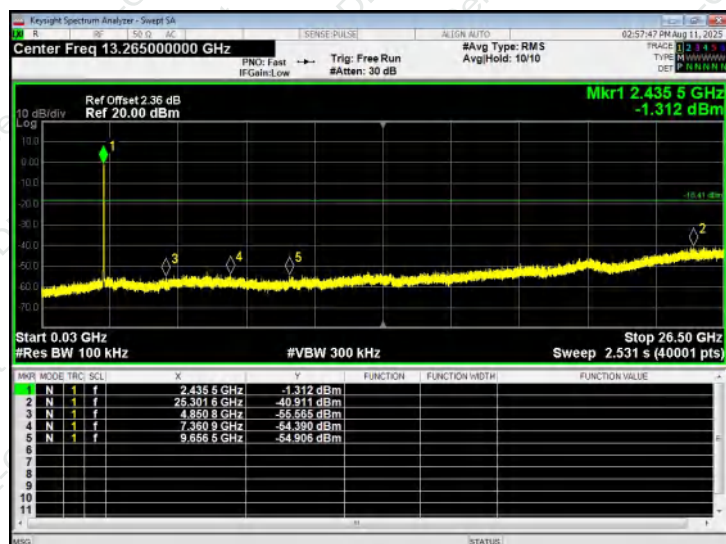
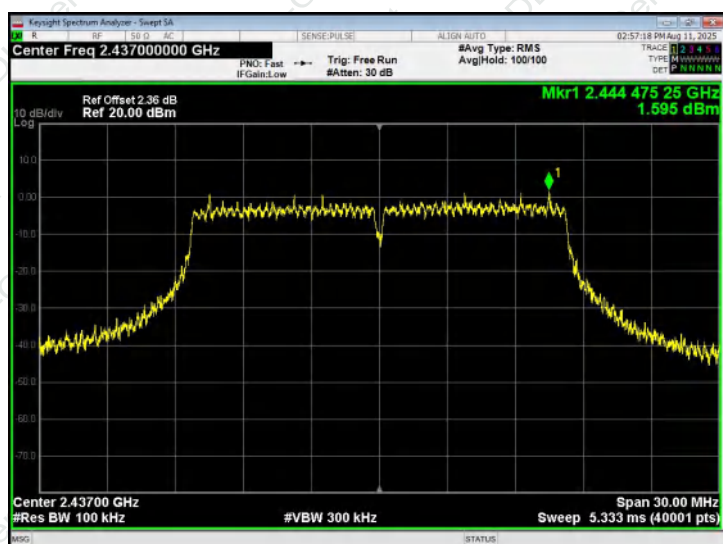


SISO ANT A - 802.11g

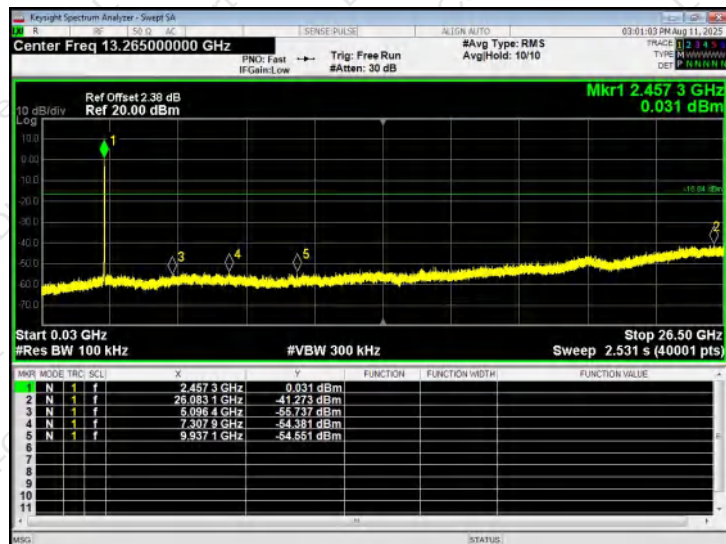
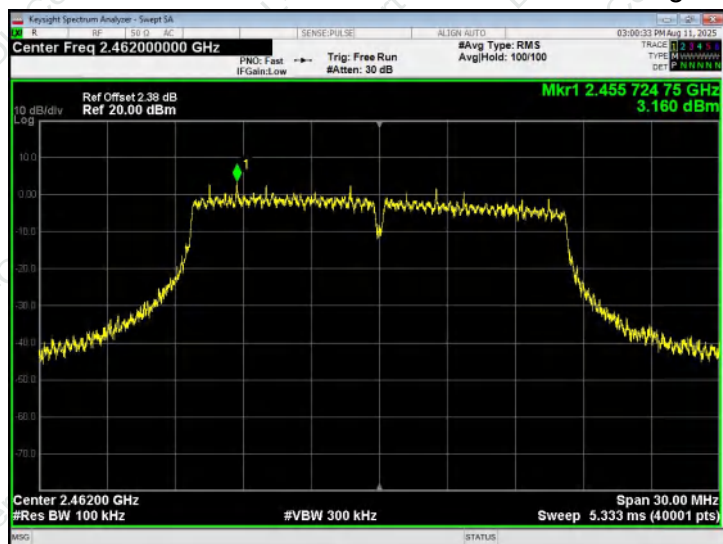
Lowest channel



Middle channel



Highest channel

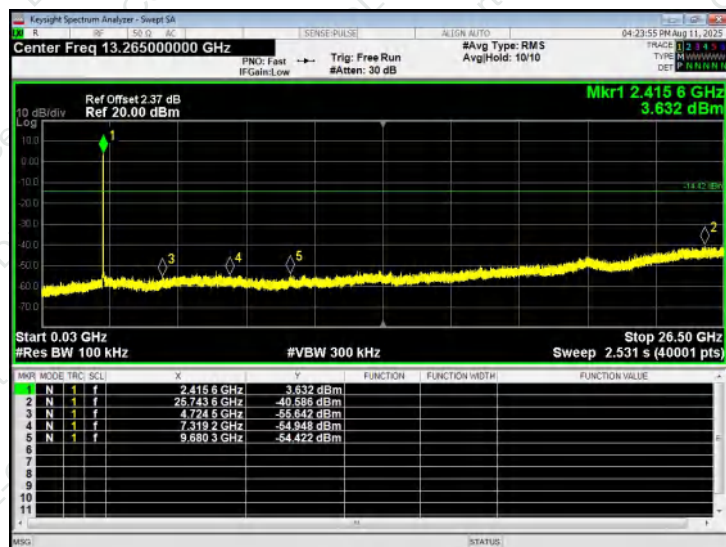
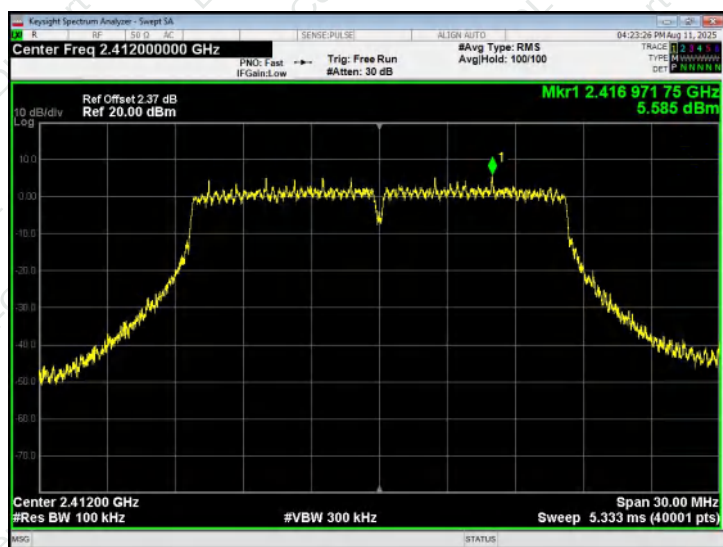


30MHz ~ 26.5GHz

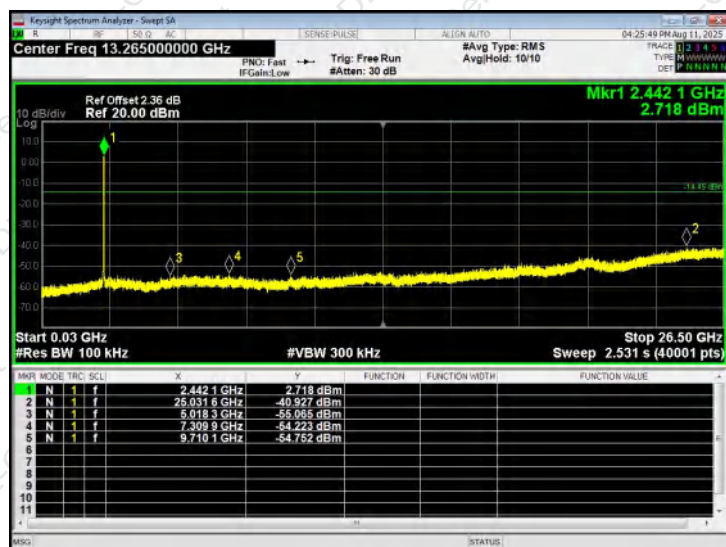
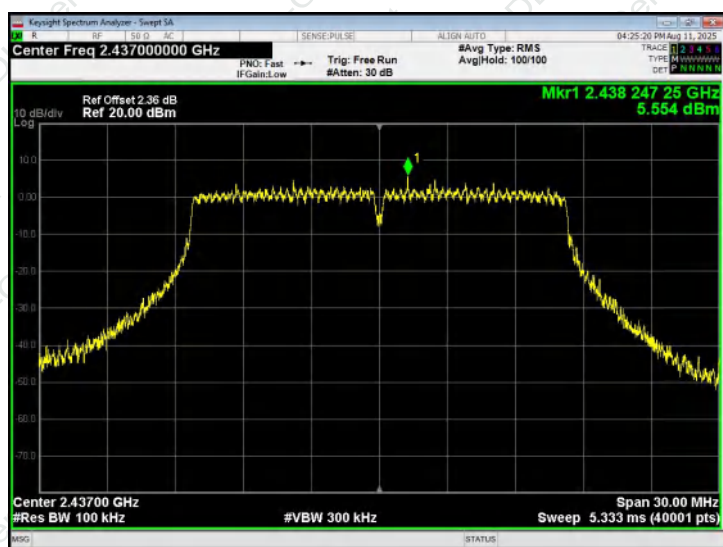


SISO ANT B - 802.11g

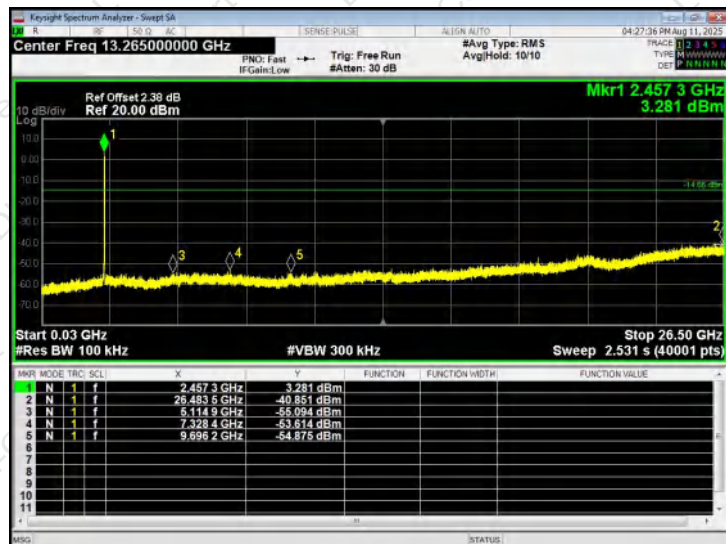
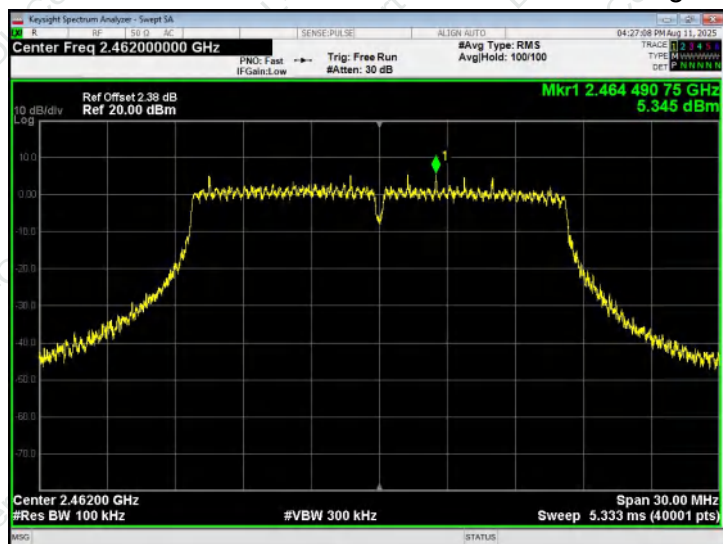
Lowest channel



Middle channel



Highest channel

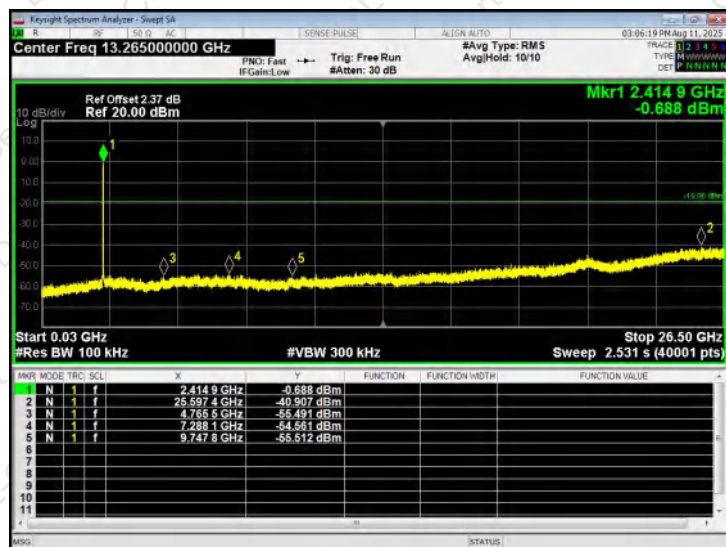
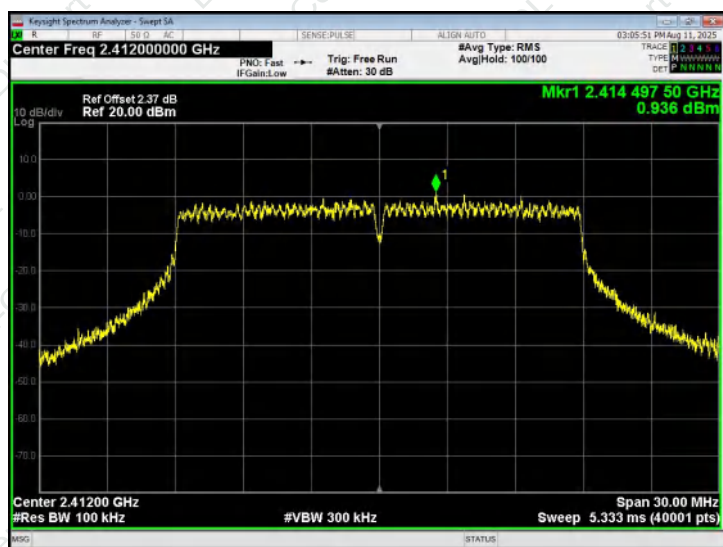


30MHz ~ 26.5GHz

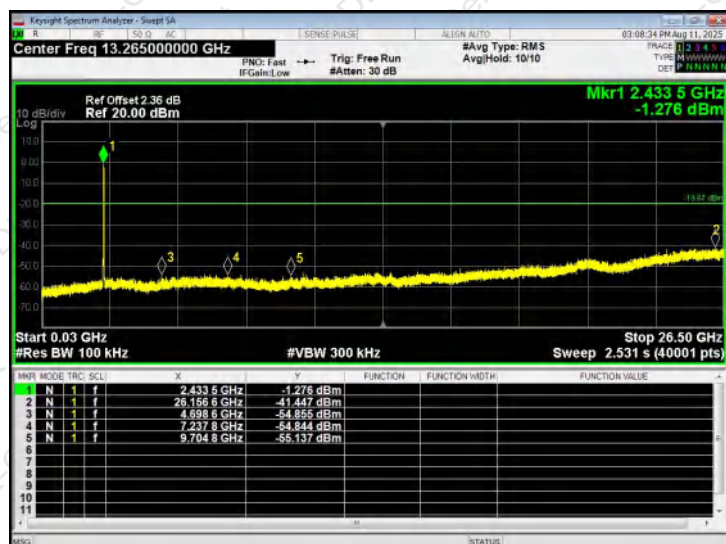
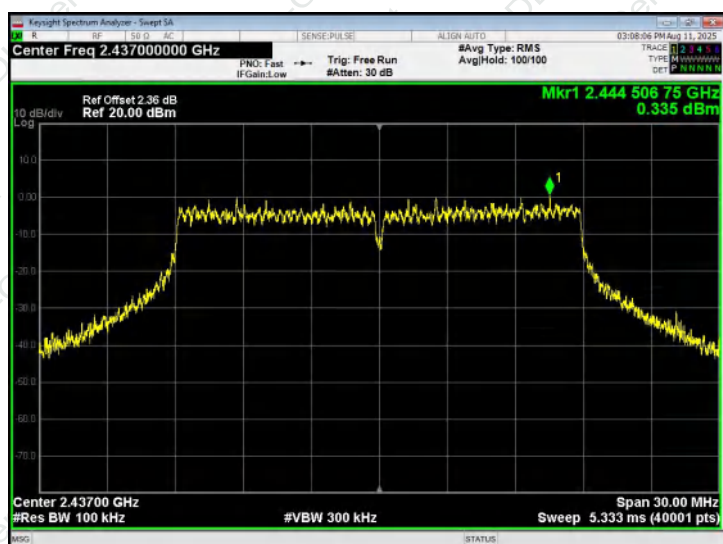


SISO ANT A - 802.11n20

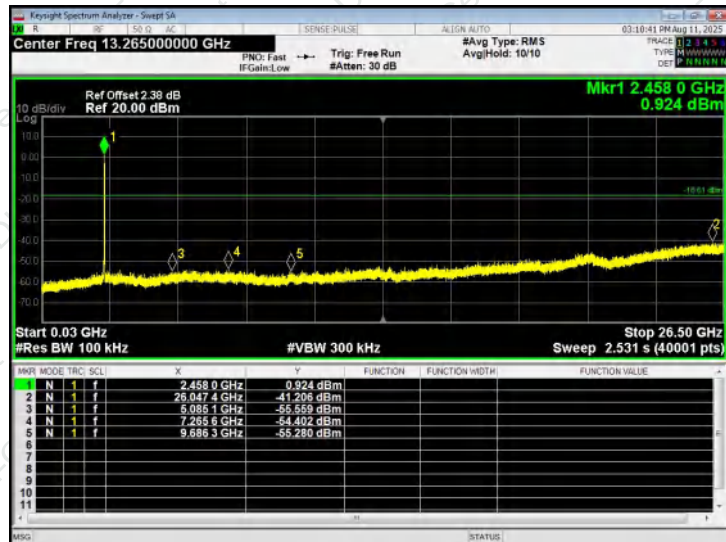
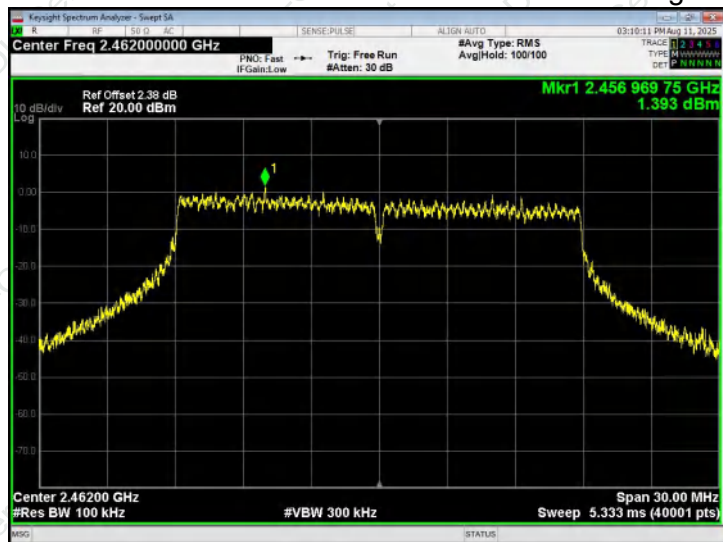
Lowest channel



Middle channel



Highest channel



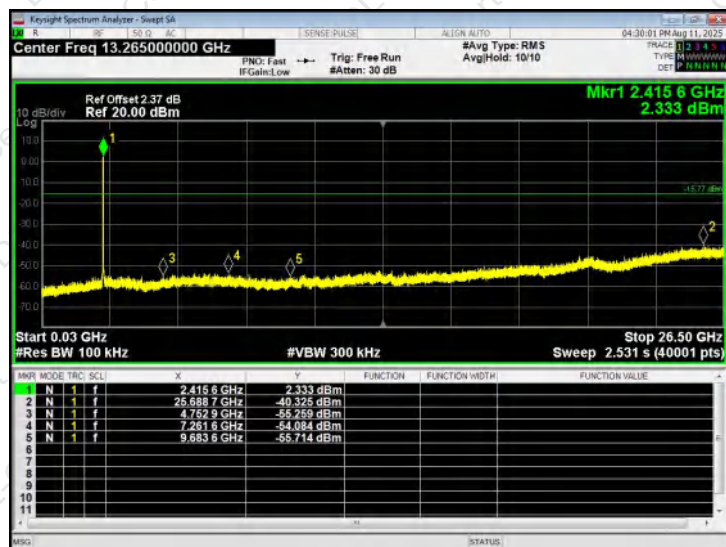
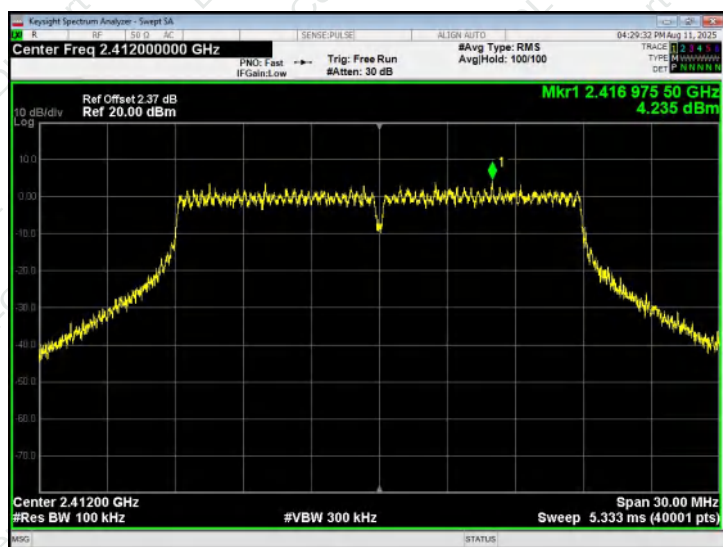
30MHz ~ 26.5GHz

Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.

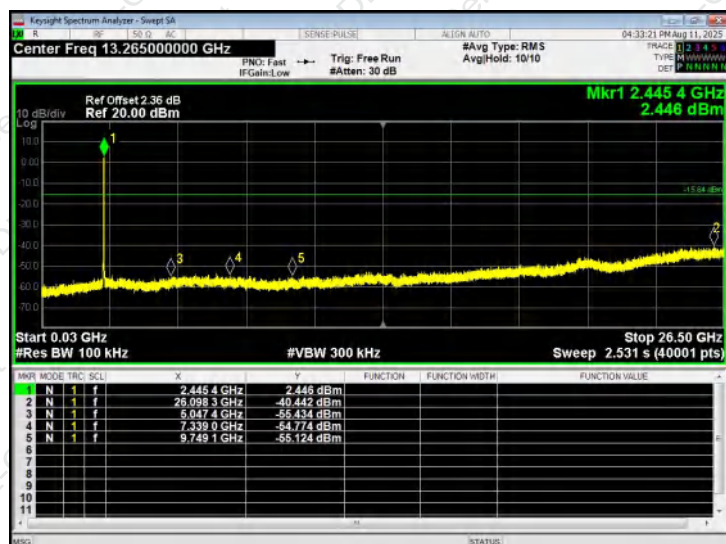
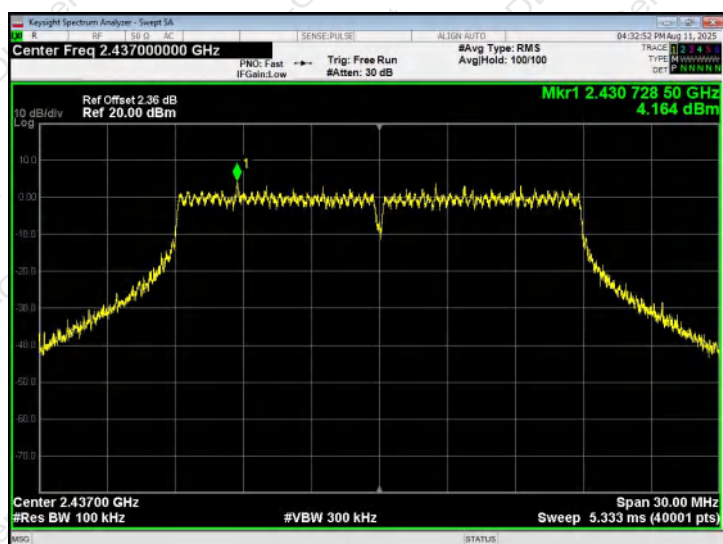


MIMO A - 802.11n20

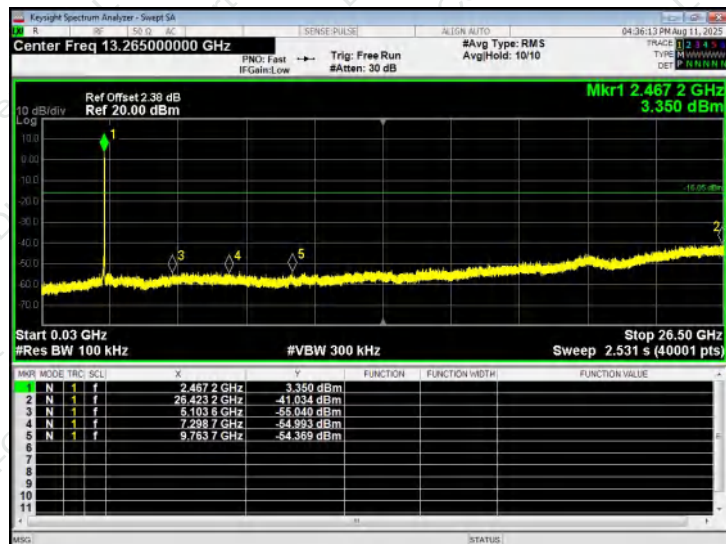
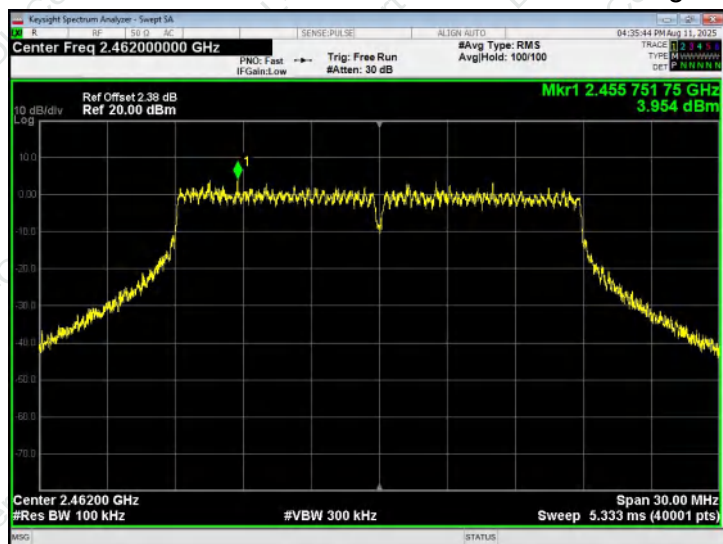
Lowest channel



Middle channel



Highest channel



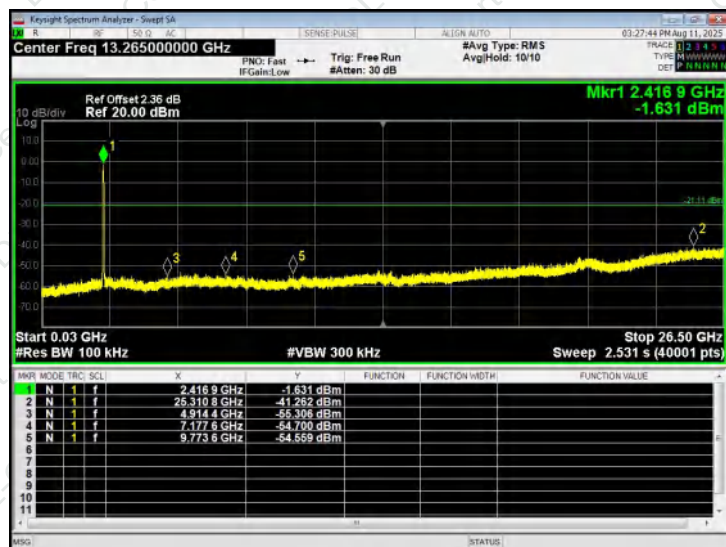
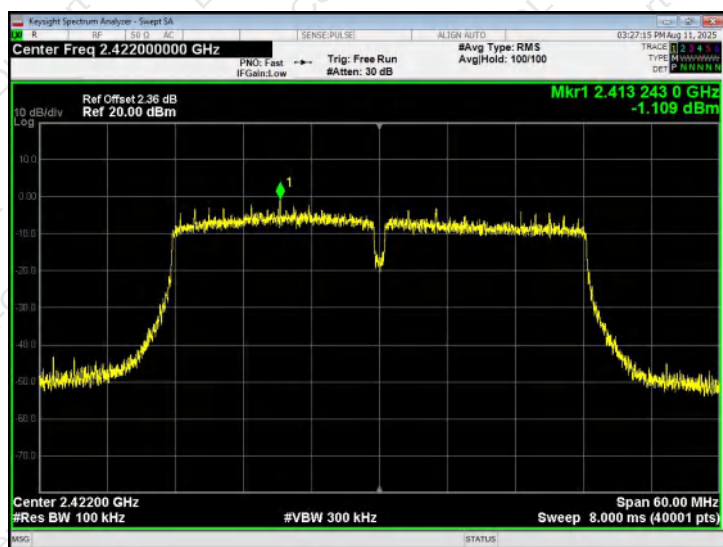
30MHz ~ 26.5GHz

Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.

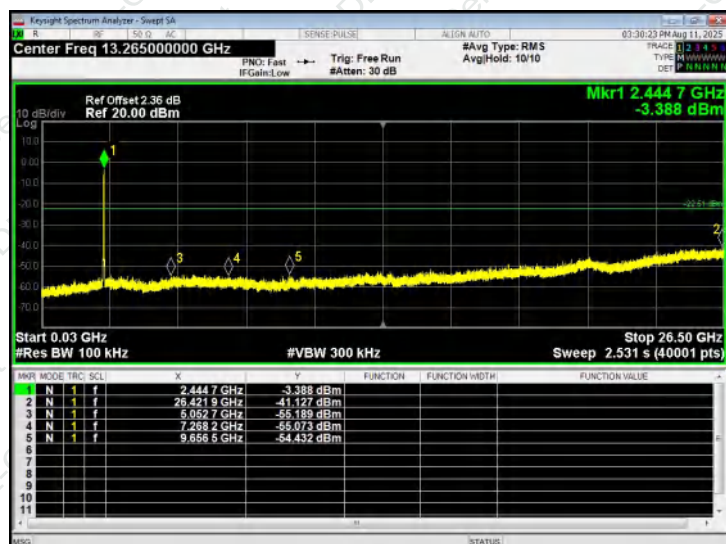
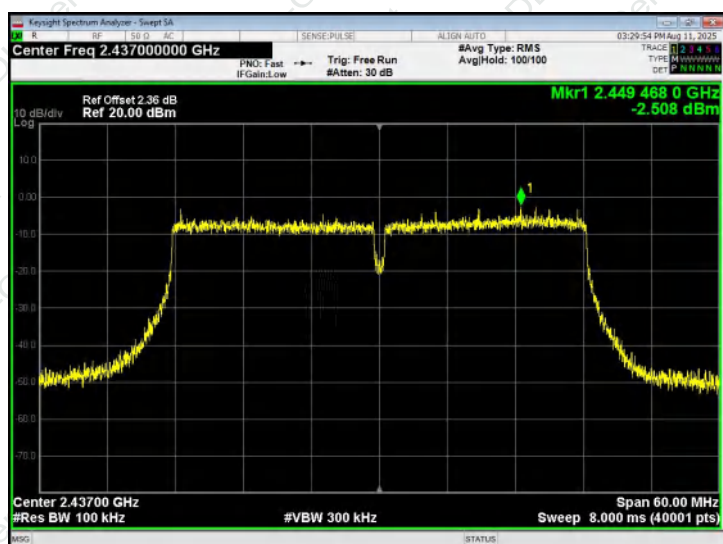


SISO ANT A - 802.11n40

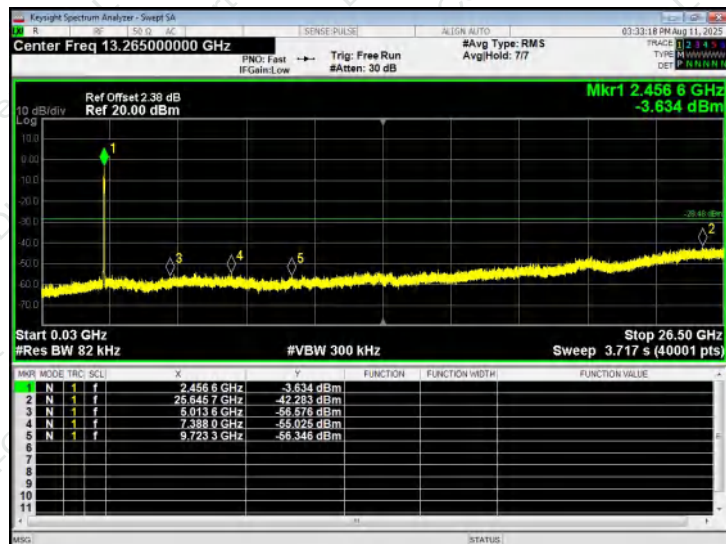
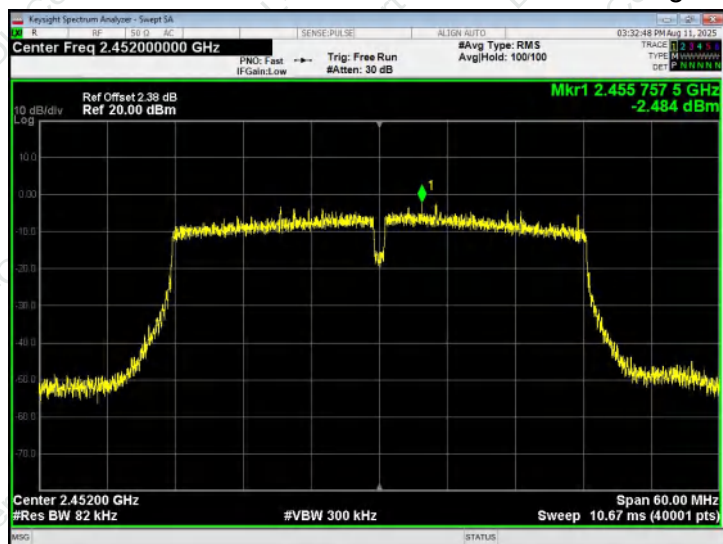
Lowest channel



Middle channel



Highest channel

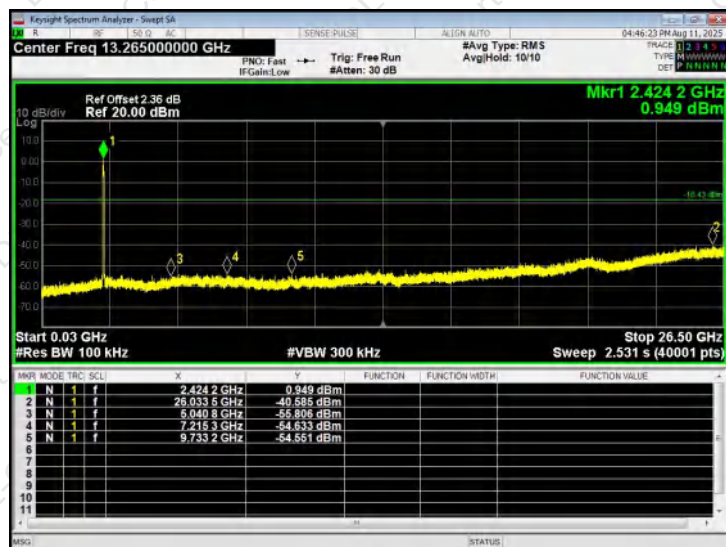


30MHz ~ 26.5GHz

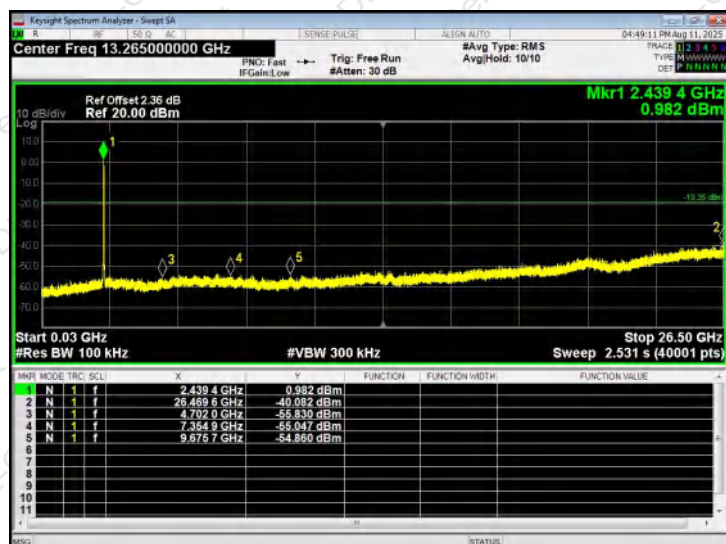
Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.



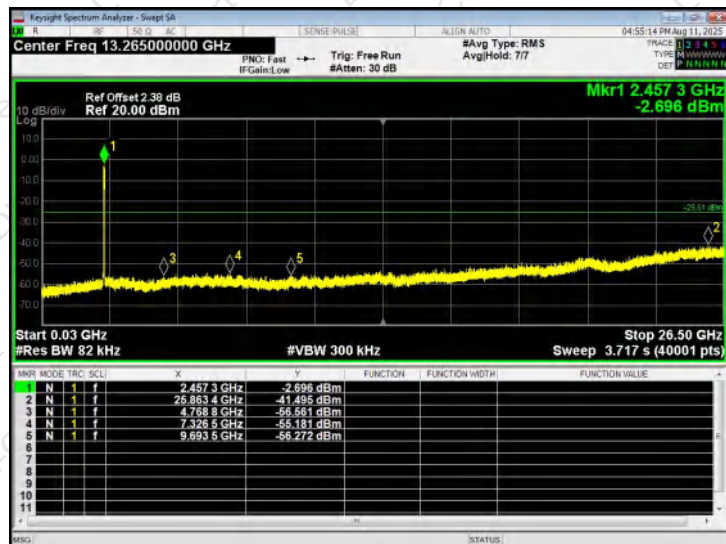
Lowest channel



Middle channel



Highest channel



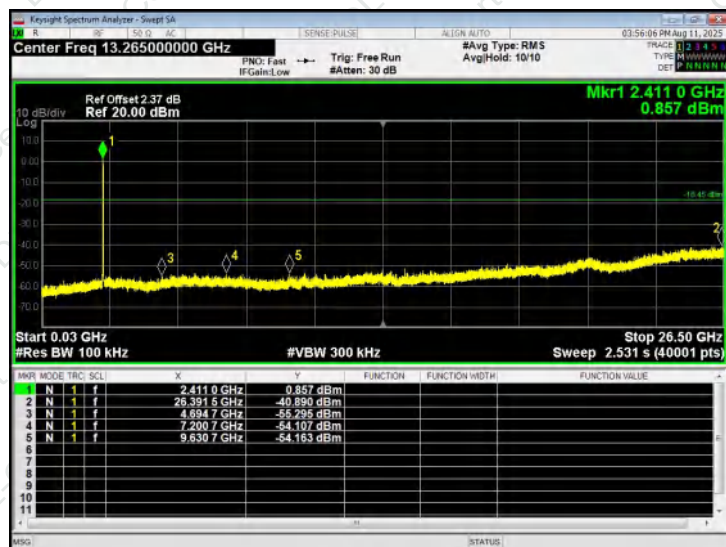
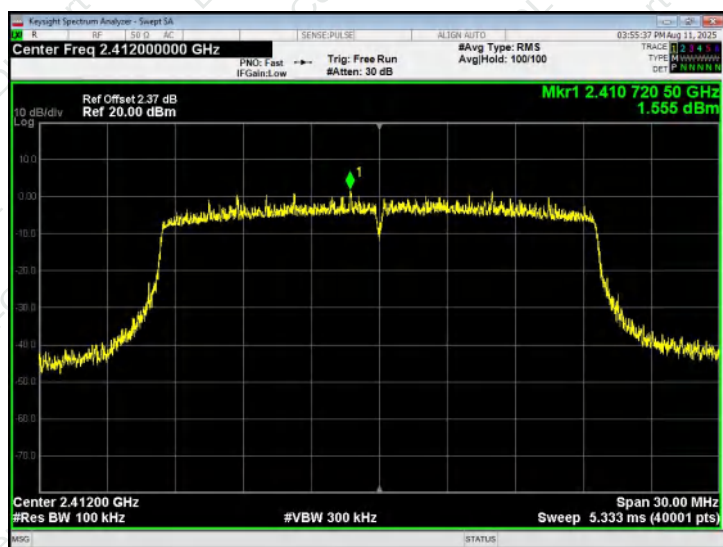
30MHz ~ 26.5GHz

Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.

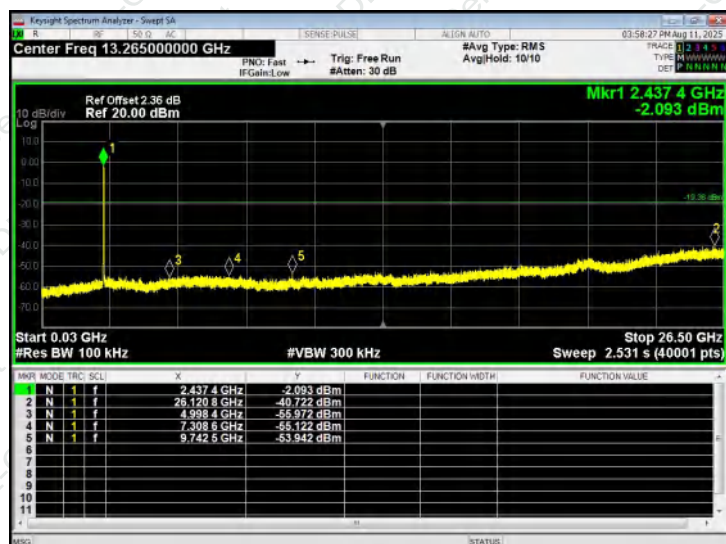
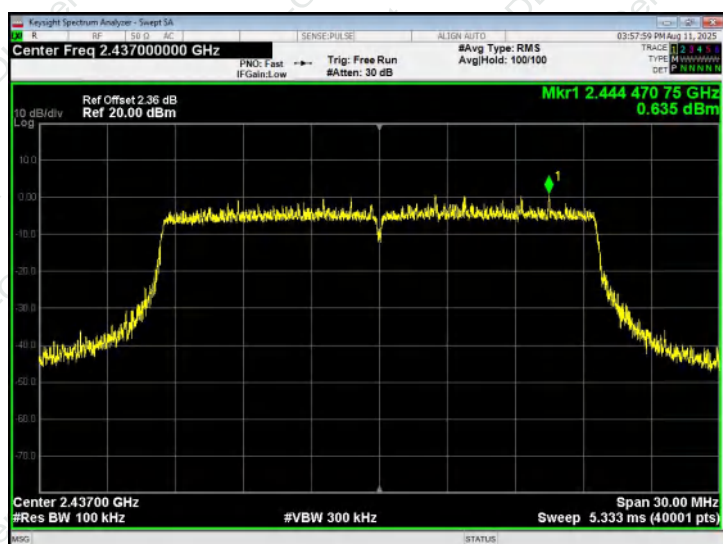


SISO ANT A - 802.11ax20

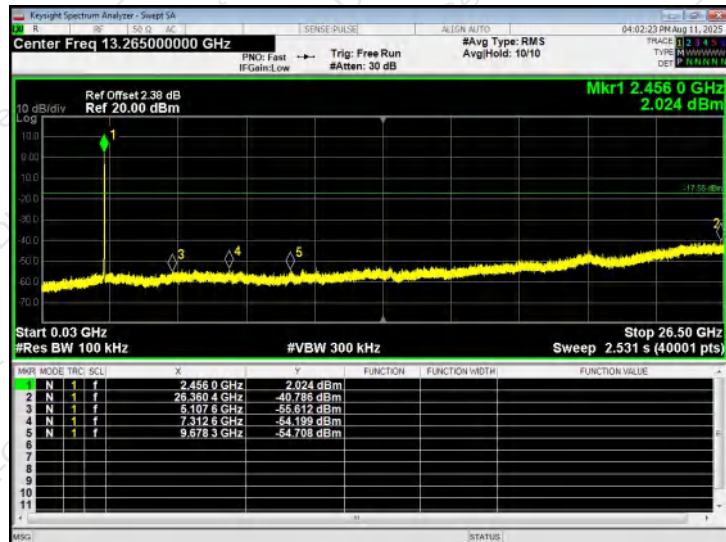
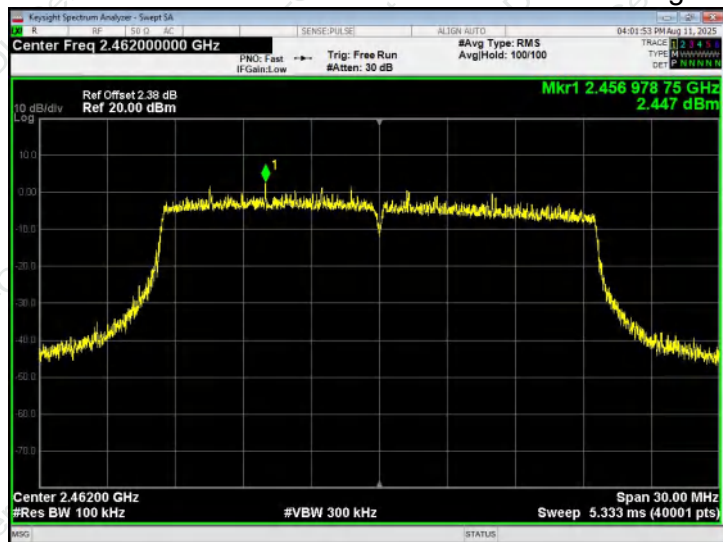
Lowest channel



Middle channel



Highest channel



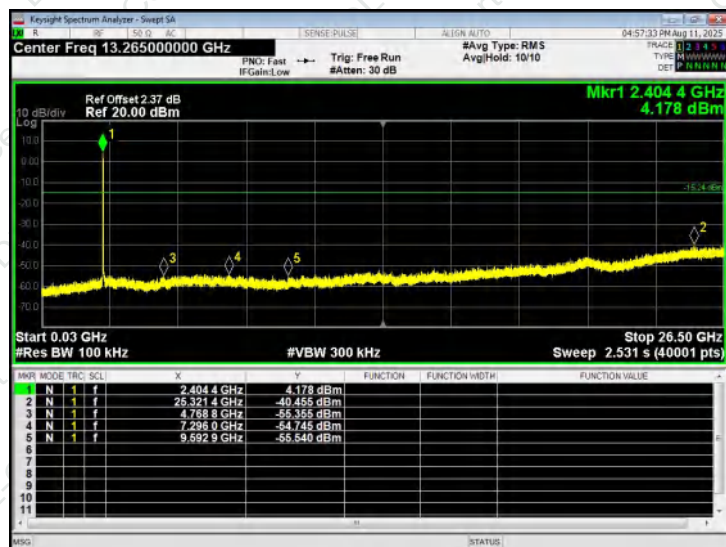
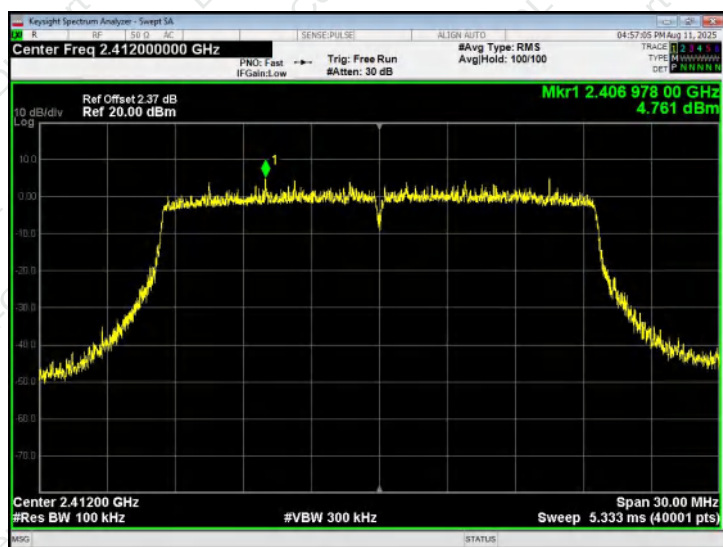
30MHz ~ 26.5GHz

Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.

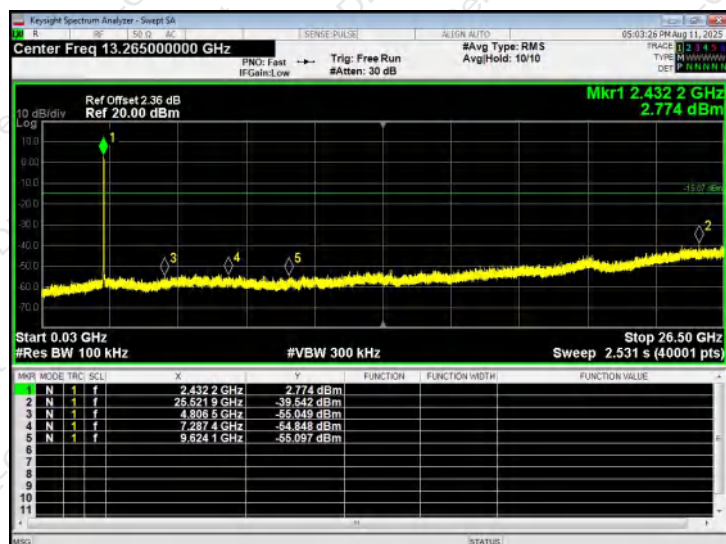
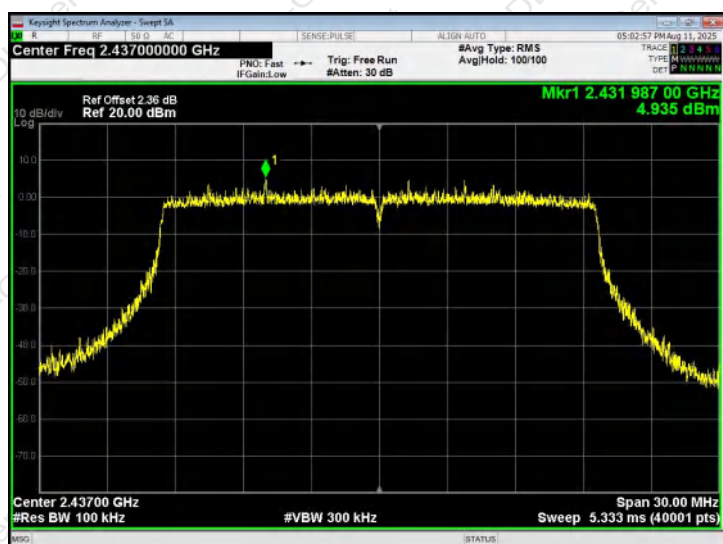


MIMO A - 802.11ax20

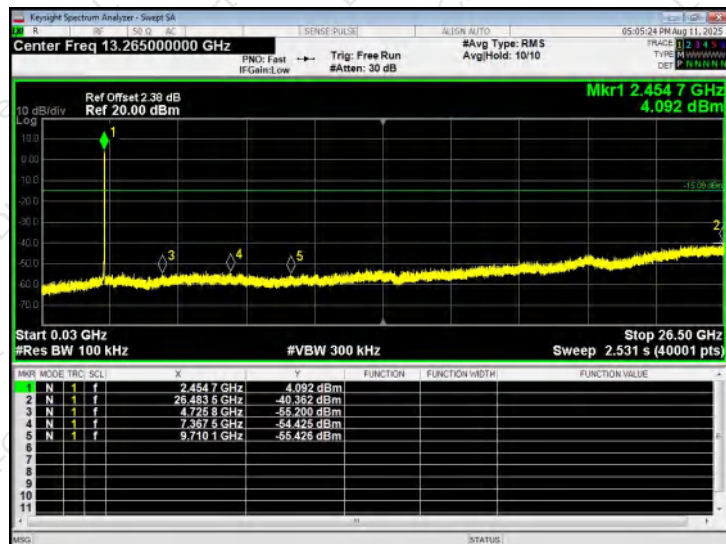
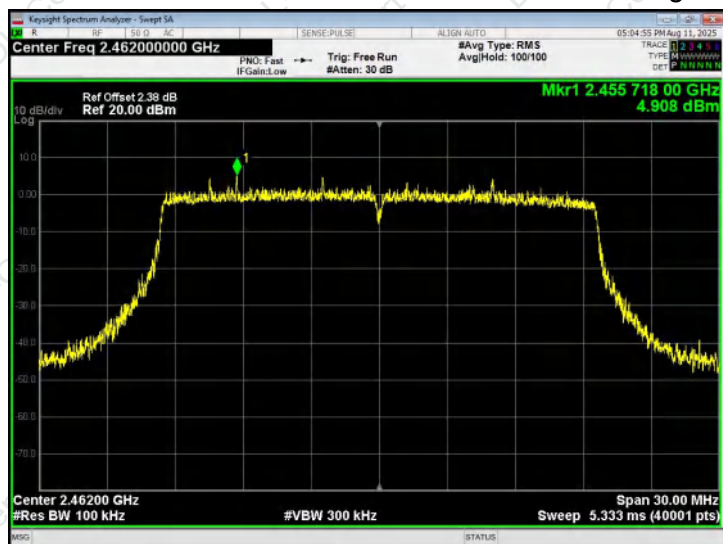
Lowest channel



Middle channel



Highest channel



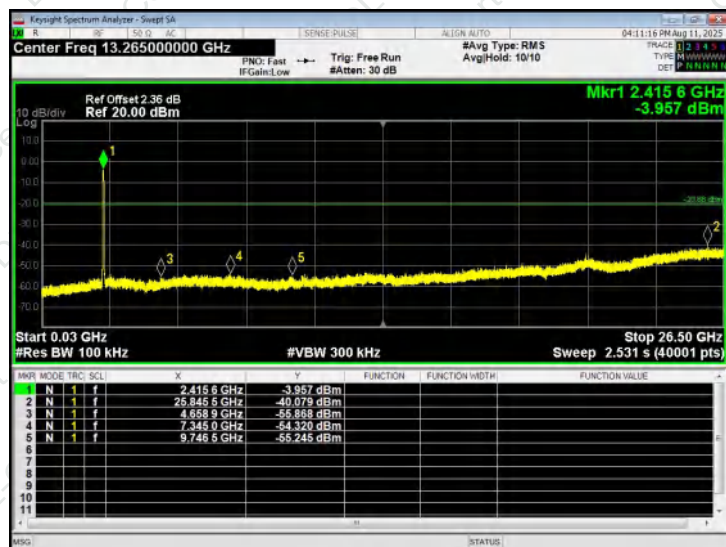
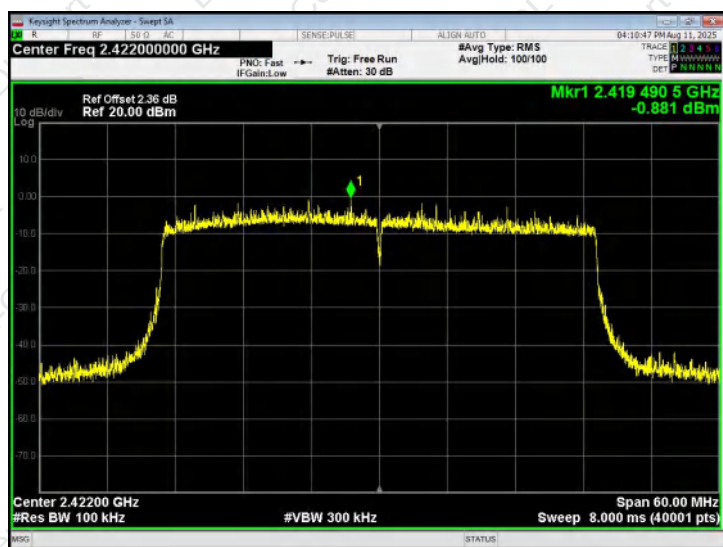
30MHz ~ 26.5GHz

Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.

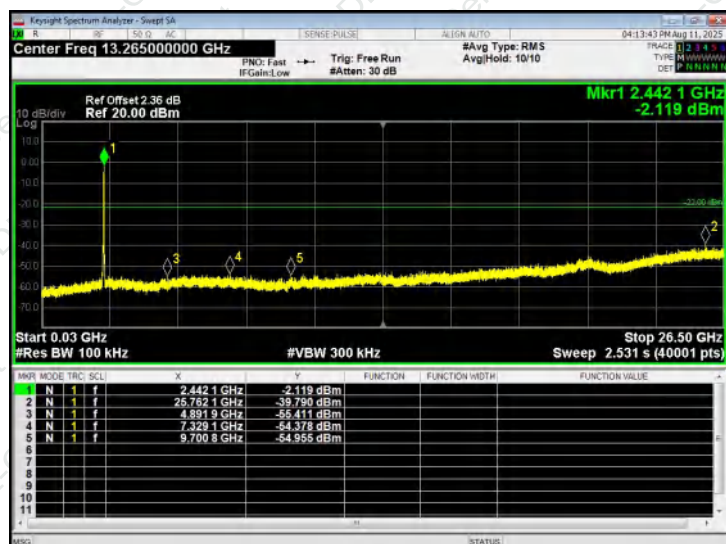
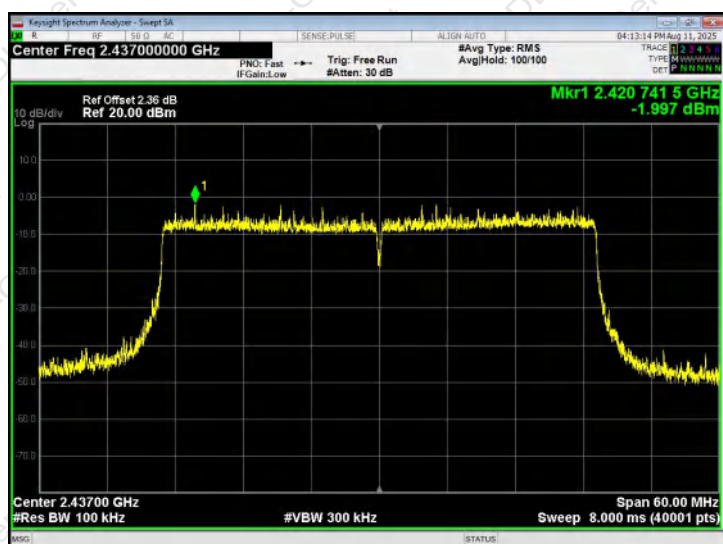


SISO ANT A - 802.11ax40

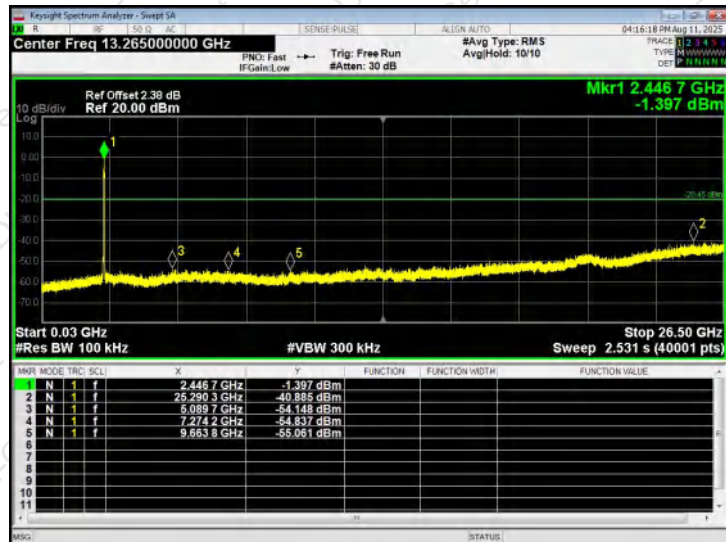
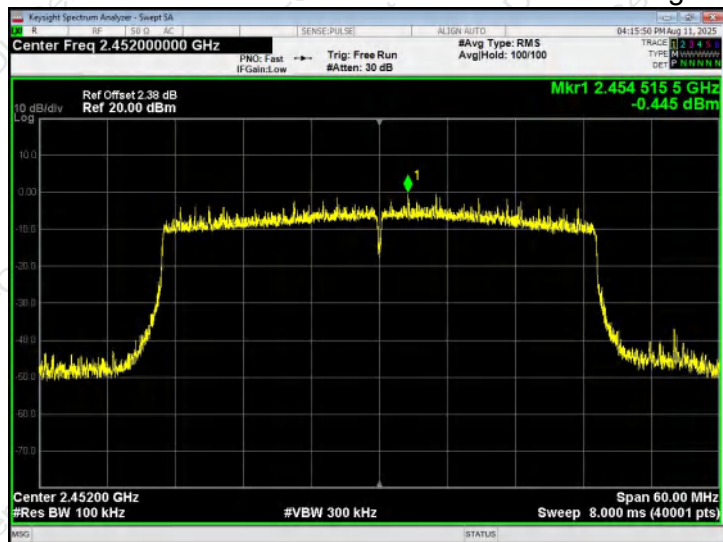
Lowest channel



Middle channel



Highest channel



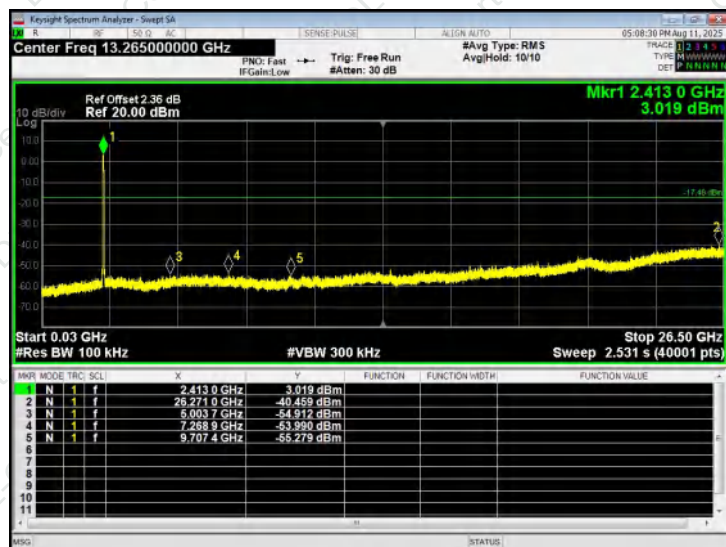
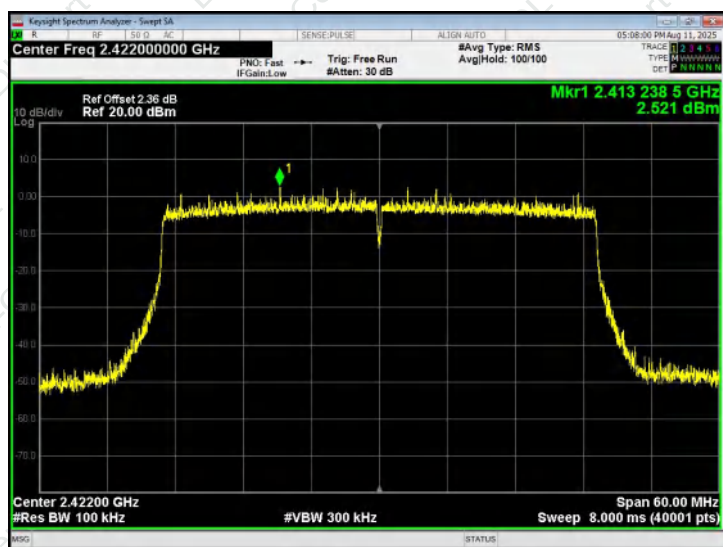
30MHz ~ 26.5GHz

Note: Both SISO ANT A and B were tested, and the results showed only the worst SISO ANT A.

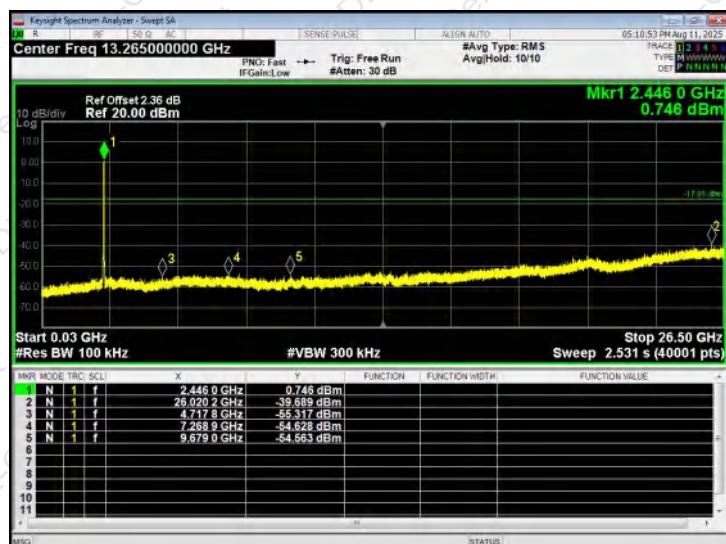
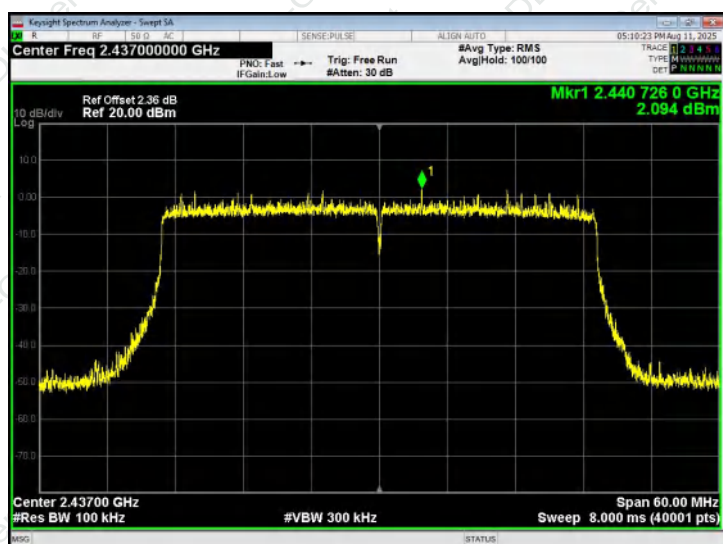


MIMO A - 802.11ax40

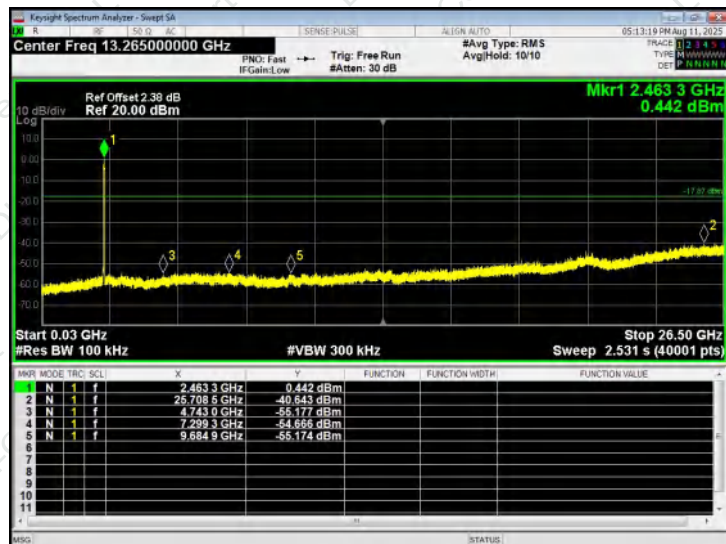
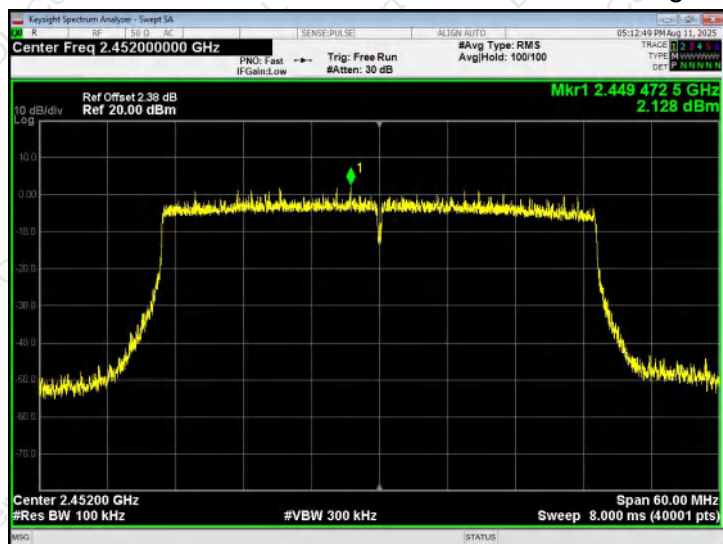
Lowest channel



Middle channel



Highest channel



30MHz ~ 26.5GHz

Note: Both MIMO A and B were tested, and the results showed only the worst MIMO A.

**10. DUTY CYCLE**

Test Method:	ANSI C63.10:2013
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10.1 APPLIED PROCEDURES / LIMIT

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

10.2 DEVIATION FROM STANDARD

No deviation.

10.3 TEST SETUP



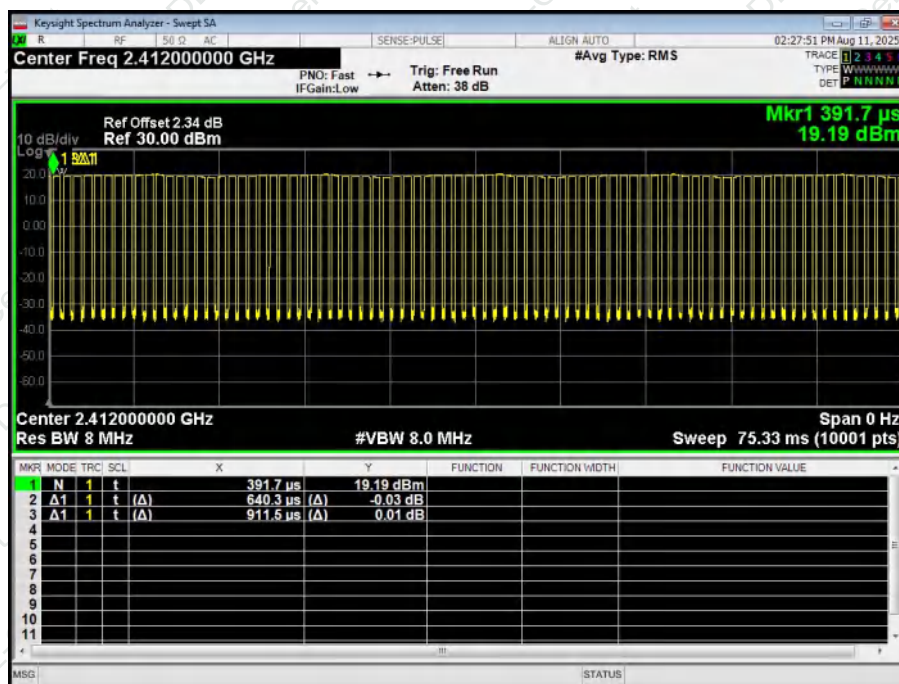
10.4 TEST RESULTS

Mode	Antenna	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
802.11b	SISO ANT A	2412	70.33	1.53
	SISO ANT B	2412	70.33	1.53
802.11g	SISO ANT A	2412	94.79	0.23
	SISO ANT B	2412	94.34	0.25
802.11n20	SISO ANT A	2412	95.21	0.21
	SISO ANT B	2412	95.04	0.22
	MIMO A+B	2412	98.14	0.08
802.11n40	SISO ANT A	2422	97.47	0.11
	SISO ANT B	2422	97.47	0.11
	MIMO A+B	2422	100.00	0
802.11ax20	SISO ANT A	2412	96.27	0.17
	SISO ANT B	2412	96.27	0.17
	MIMO A+B	2412	99.28	0.03
802.11ax40	SISO ANT A	2422	97.57	0.11
	SISO ANT B	2422	97.57	0.11
	MIMO A+B	2422	100.00	0
Note: Duty Cycle= Ton /Total*100% Correction Factor = $10 \cdot \log_{10}(1/\text{Duty Cycle})$				



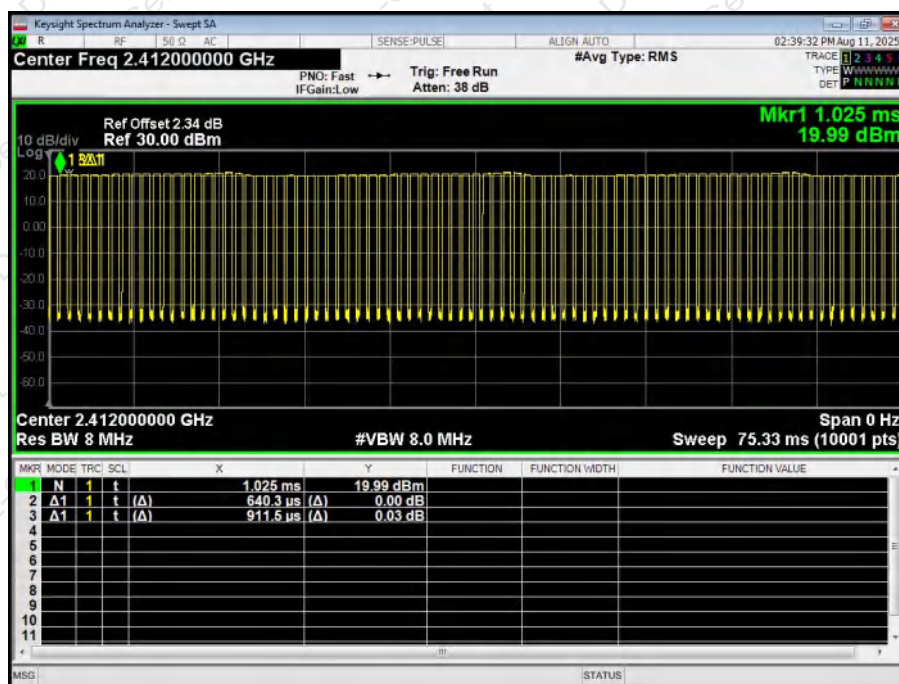
SISO ANT A - 802.11b

2412MHz



SISO ANT B - 802.11b

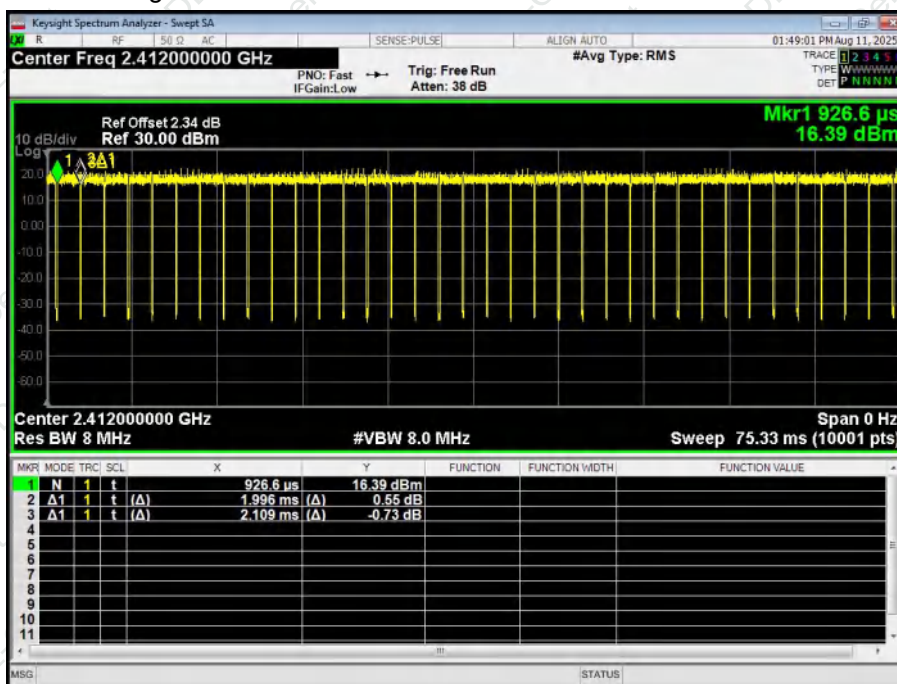
2412MHz





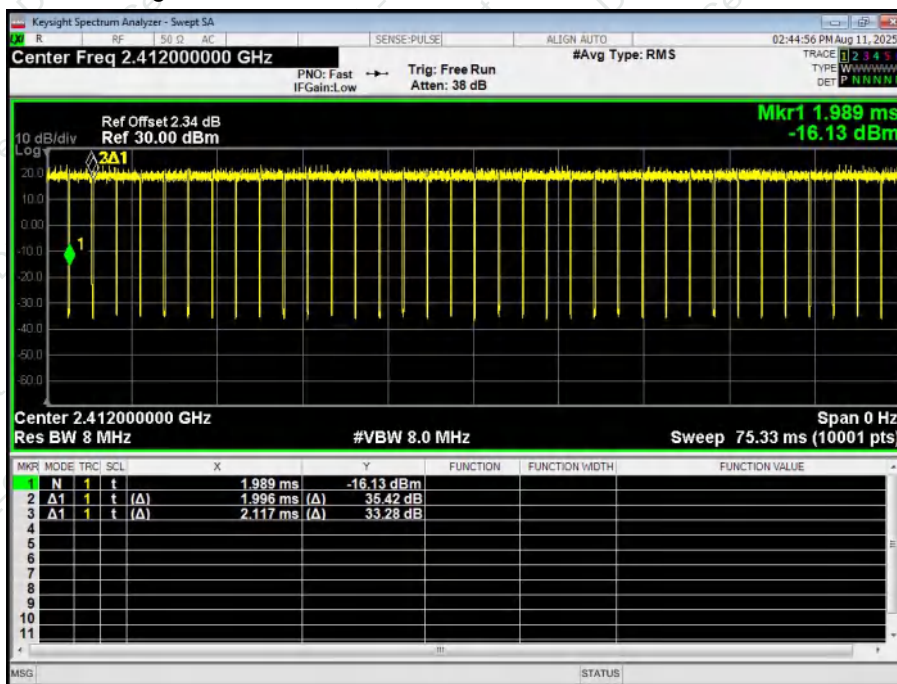
SISO ANT A - 802.11g

2412MHz



SISO ANT B - 802.11g

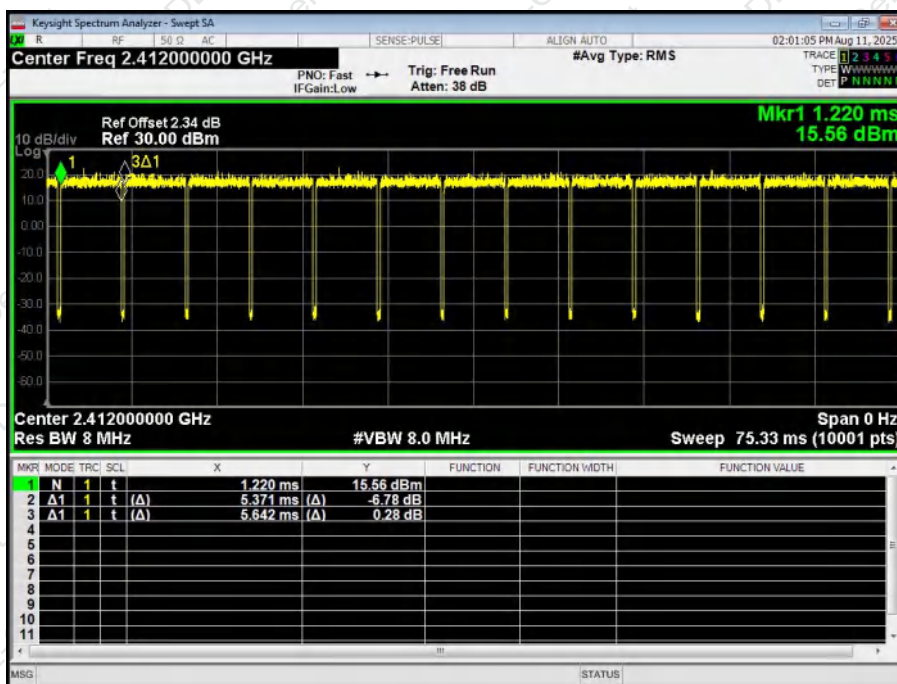
2412MHz





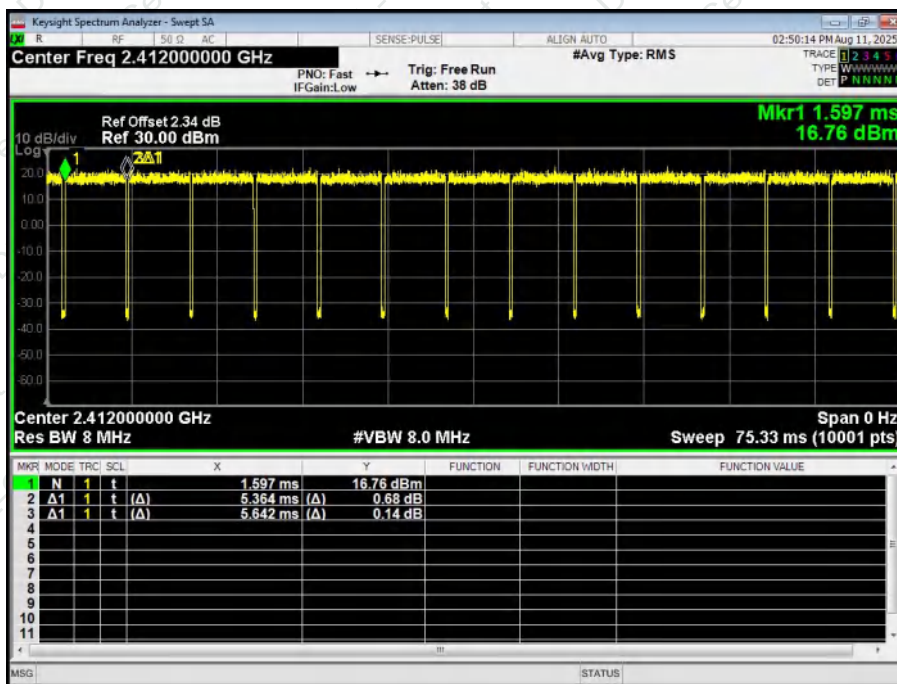
SISO ANT A - 802.11n20

2412MHz



SISO ANT B - 802.11n20

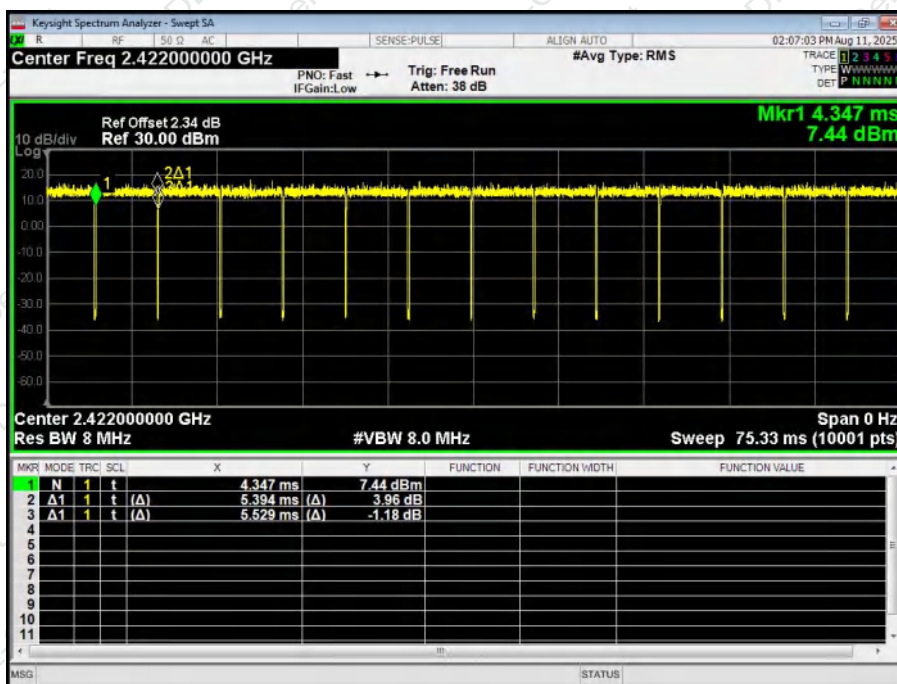
2412MHz





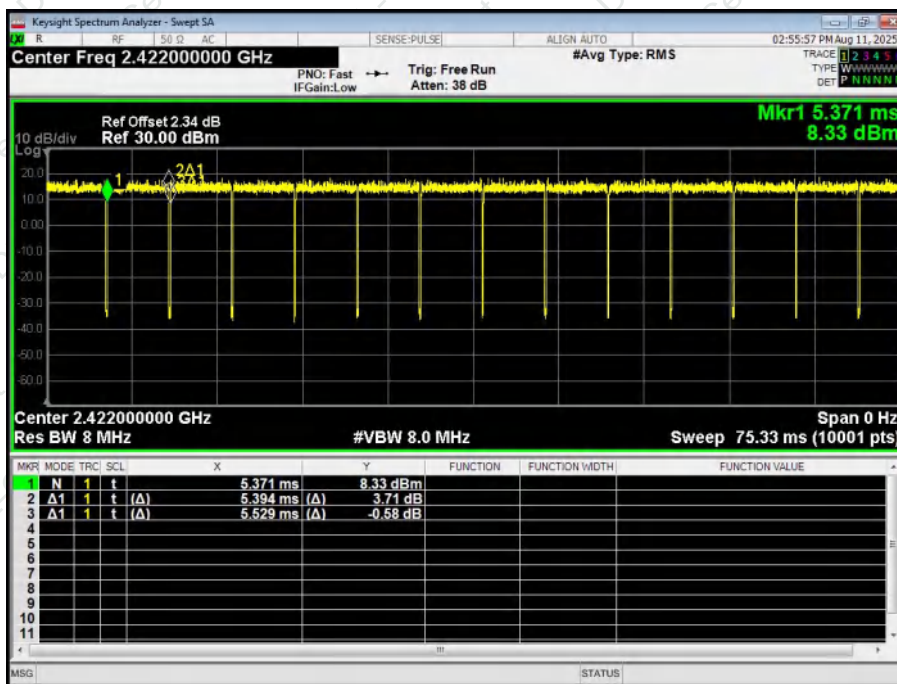
SISO ANT A - 802.11n40

2422MHz



SISO ANT B - 802.11n40

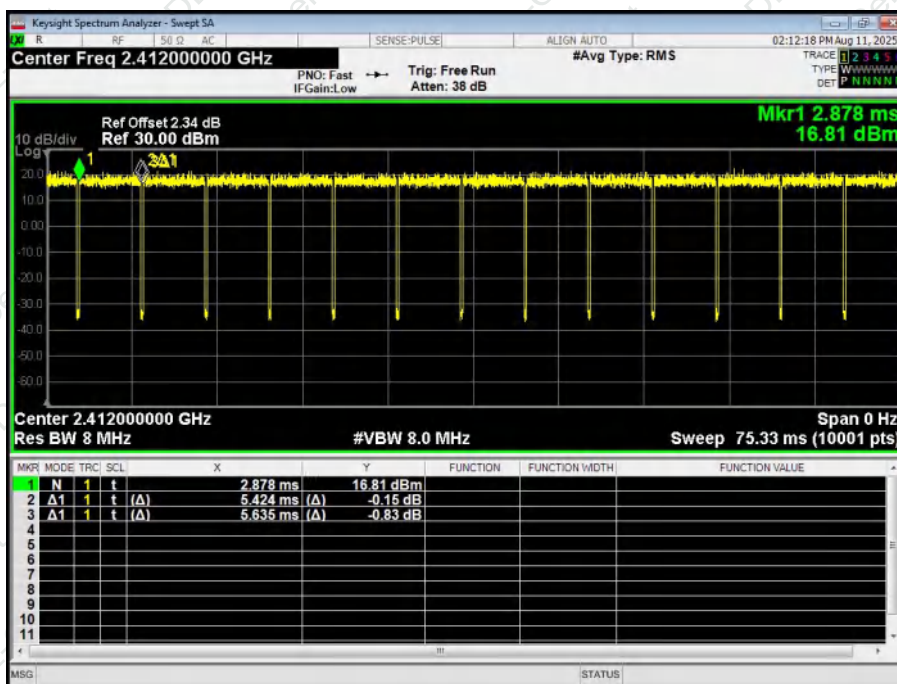
2422MHz





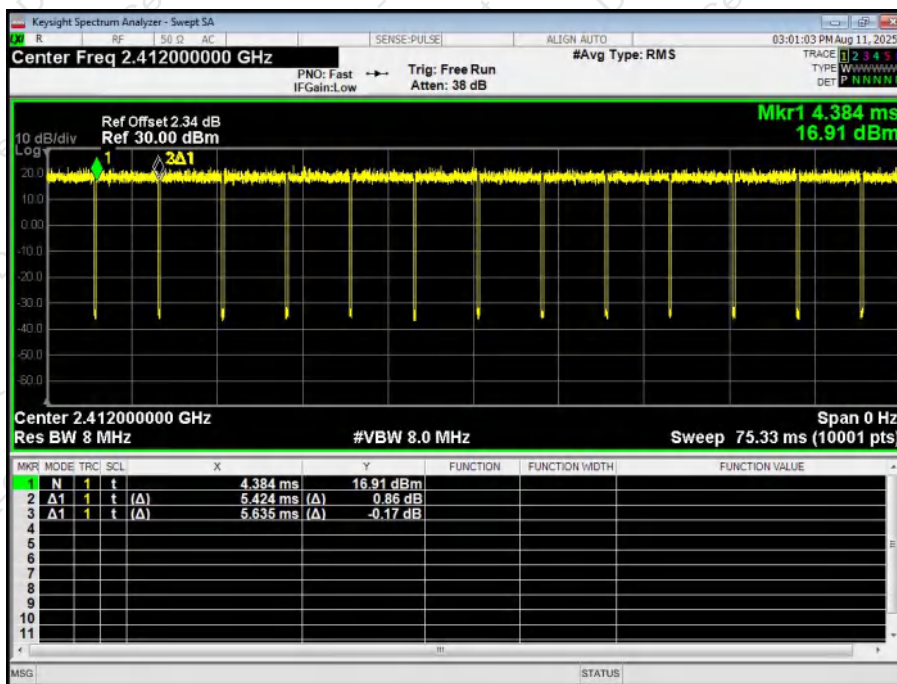
SISO ANT A - 802.11ax20

2412MHz



SISO ANT B - 802.11ax20

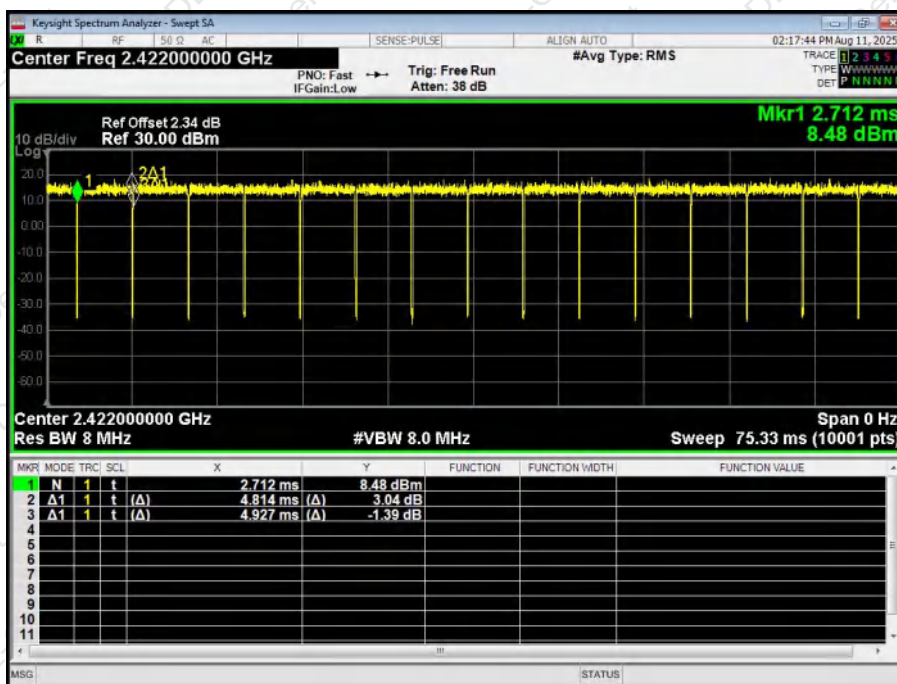
2412MHz





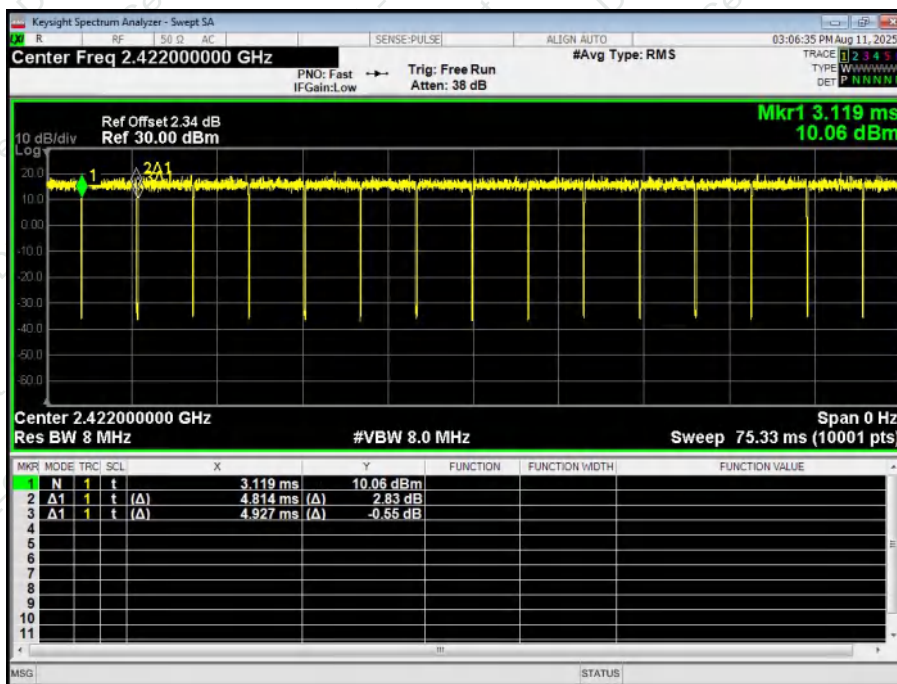
SISO ANT A - 802.11ax40

2422MHz



SISO ANT B - 802.11ax40

2422MHz



**11. ANTENNA REQUIREMENT**

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>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.</p> <p>15.247(c) (1)(i) requirement: (i) 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 6dBi. A transmitter can only be sold or operated with antennas with which it was approved.</p>	
EUT Antenna:	
The antenna is FPC ANT A&B, See page 7 for specific antenna gain, reference to the appendix II for details	



12. TEST SETUP PHOTO

Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****