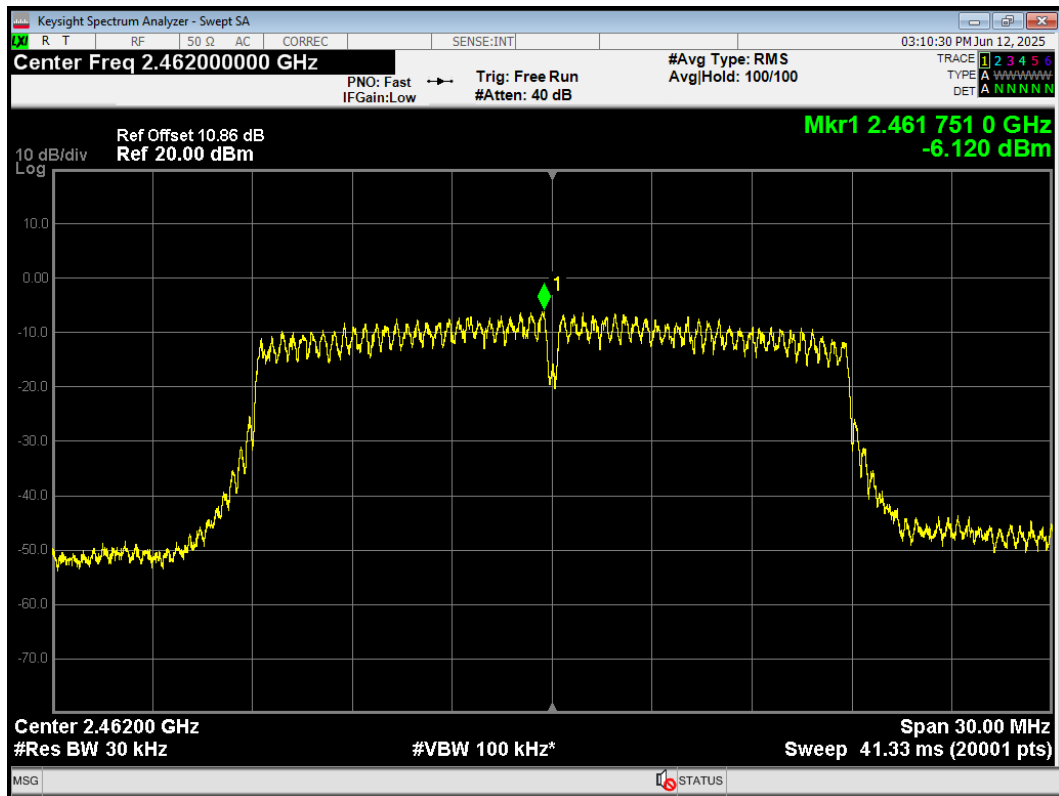
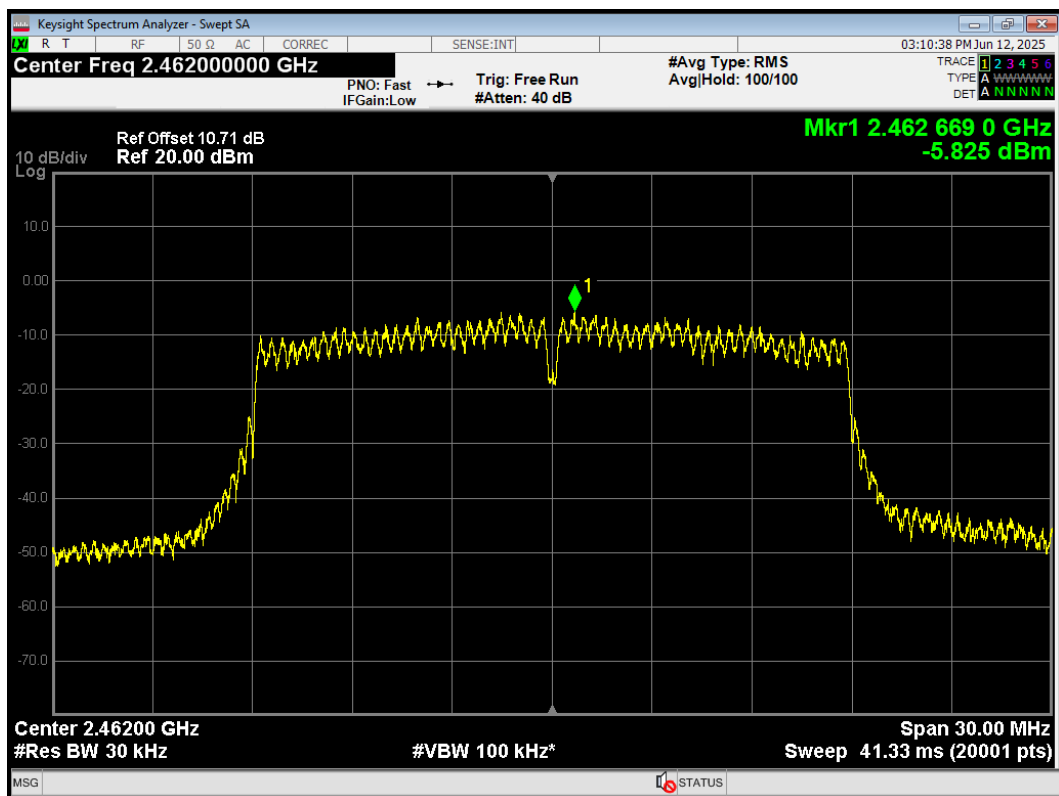


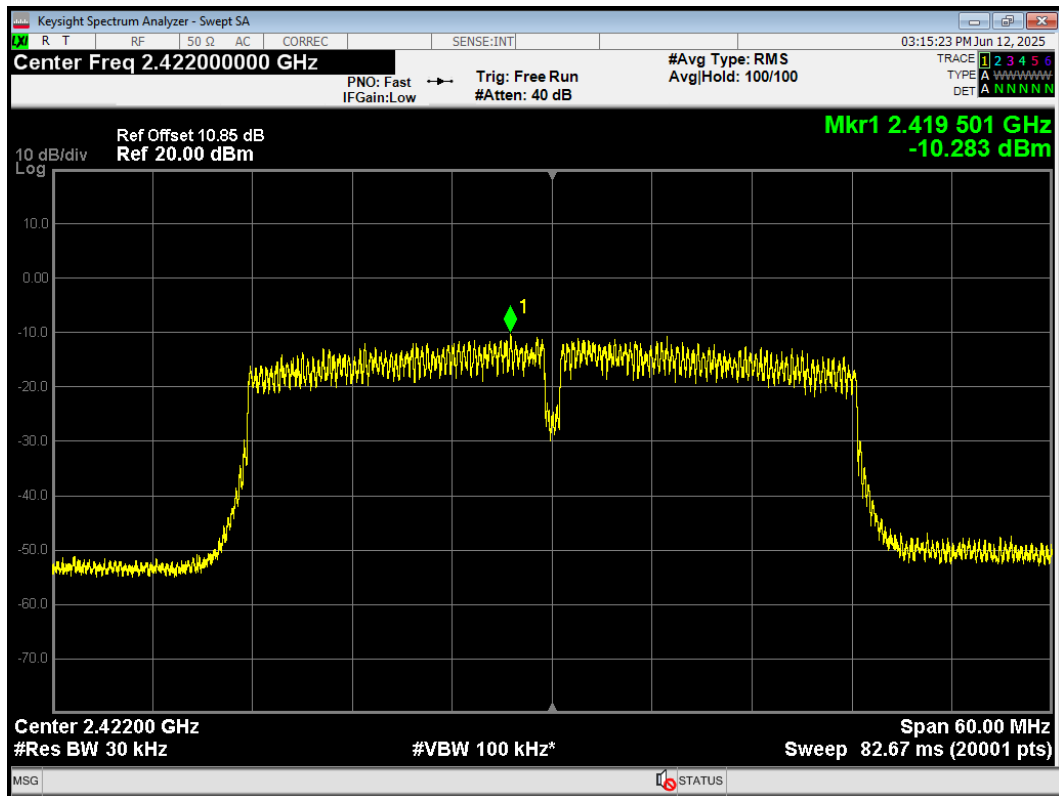
PSD 802.11n(HT20) 2462MHz Ant1



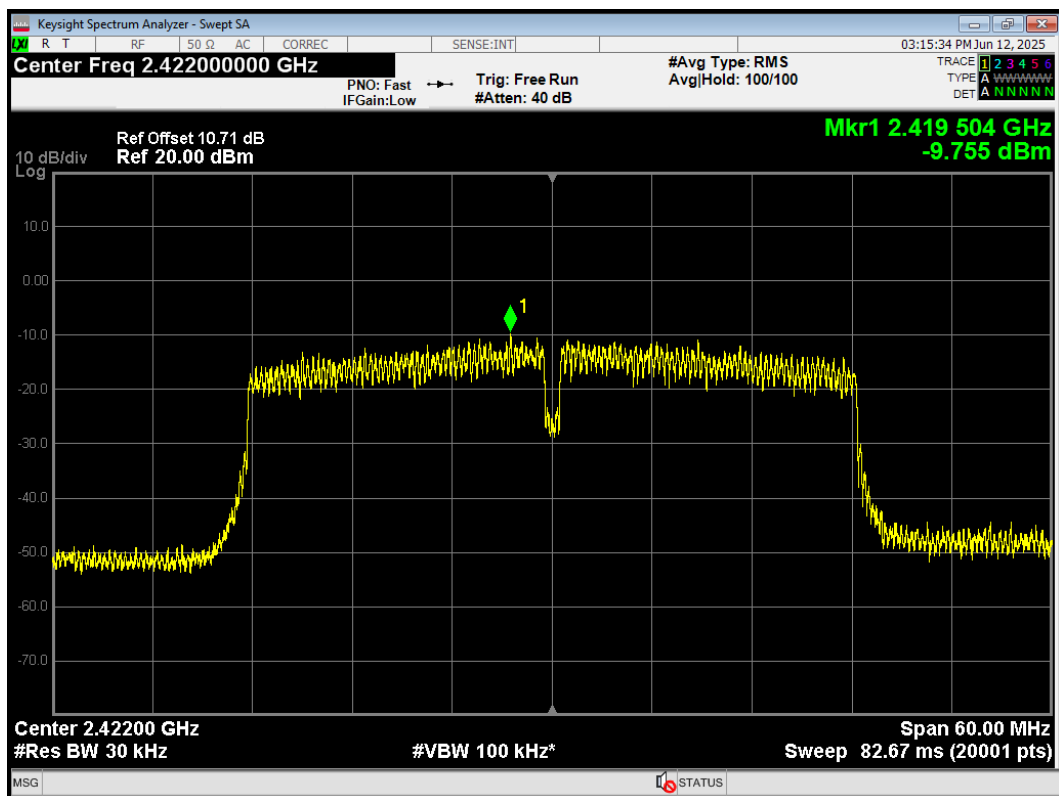
PSD 802.11n(HT20) 2462MHz Ant2



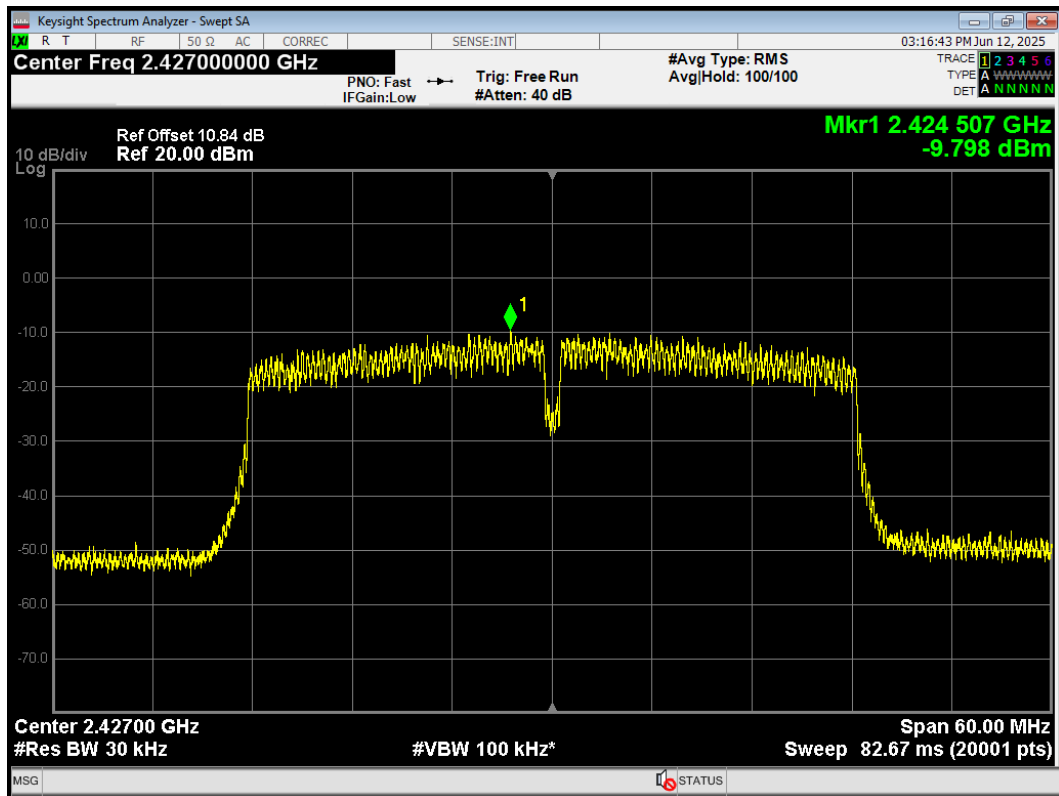
PSD 802.11n(HT40) 2422MHz Ant1



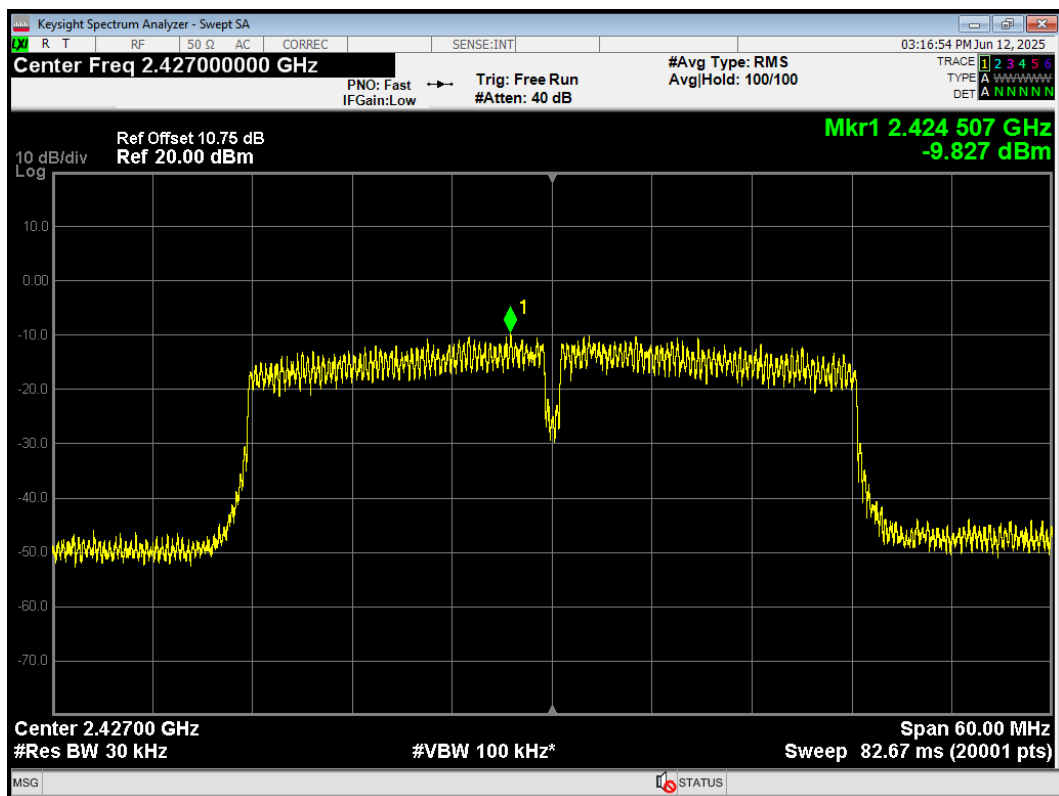
PSD 802.11n(HT40) 2422MHz Ant2



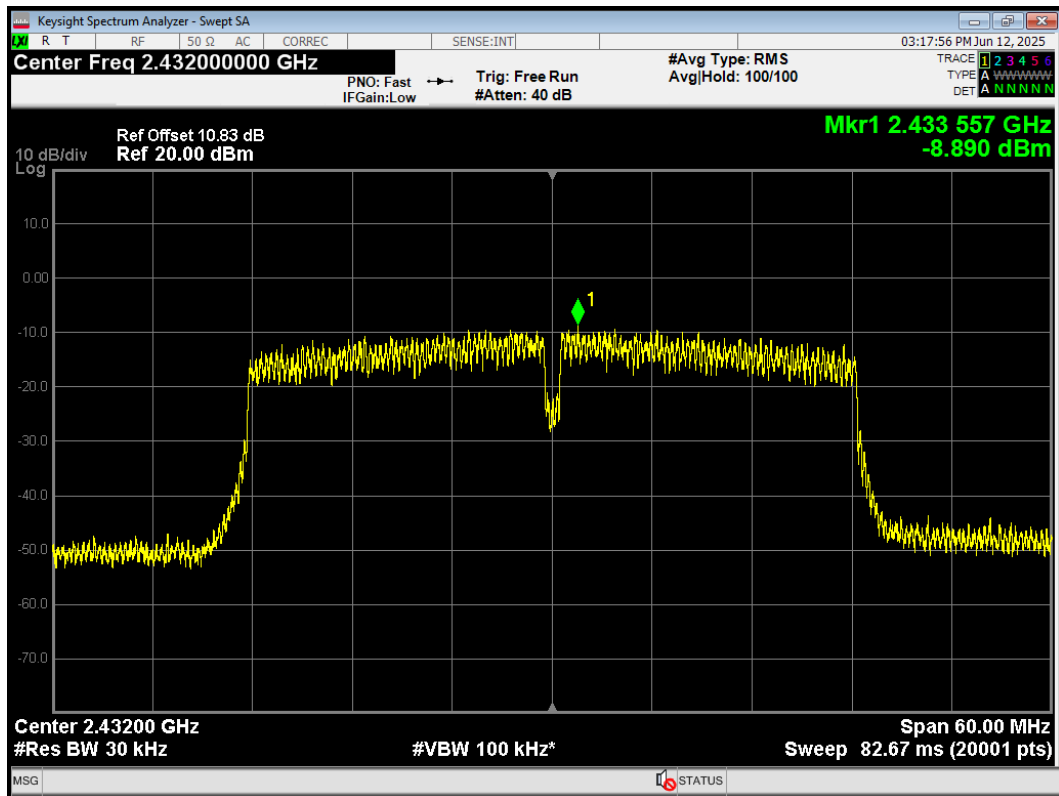
PSD 802.11n(HT40) 2427MHz Ant1



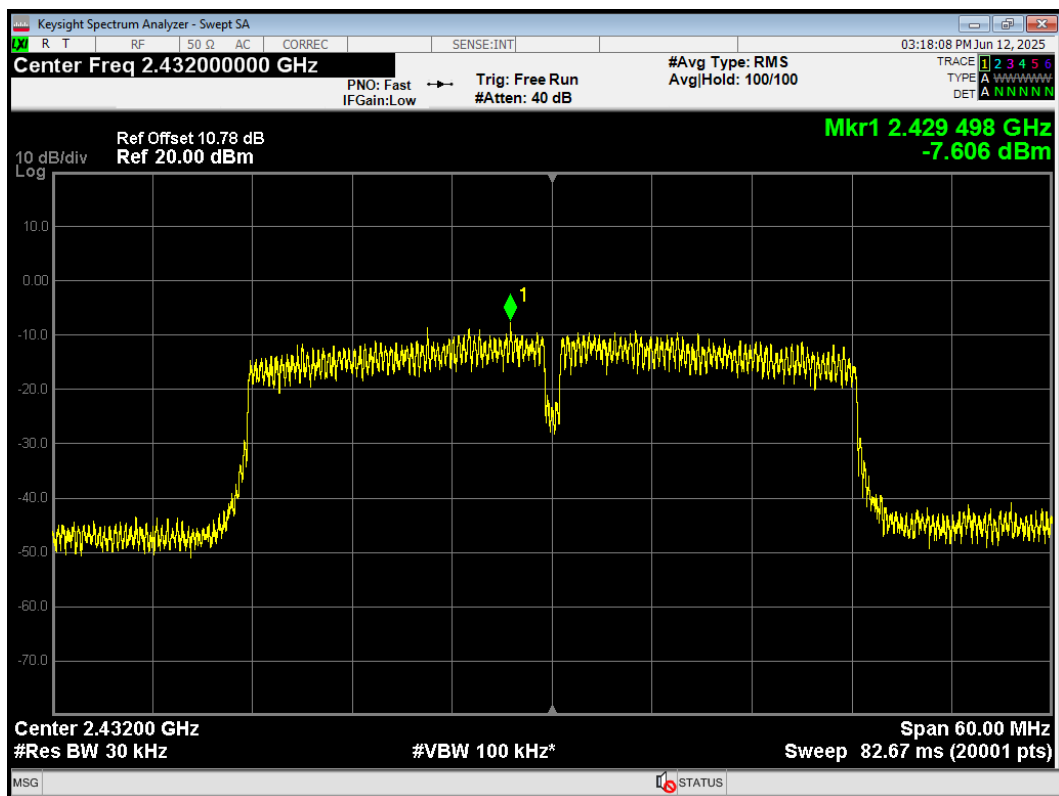
PSD 802.11n(HT40) 2427MHz Ant2



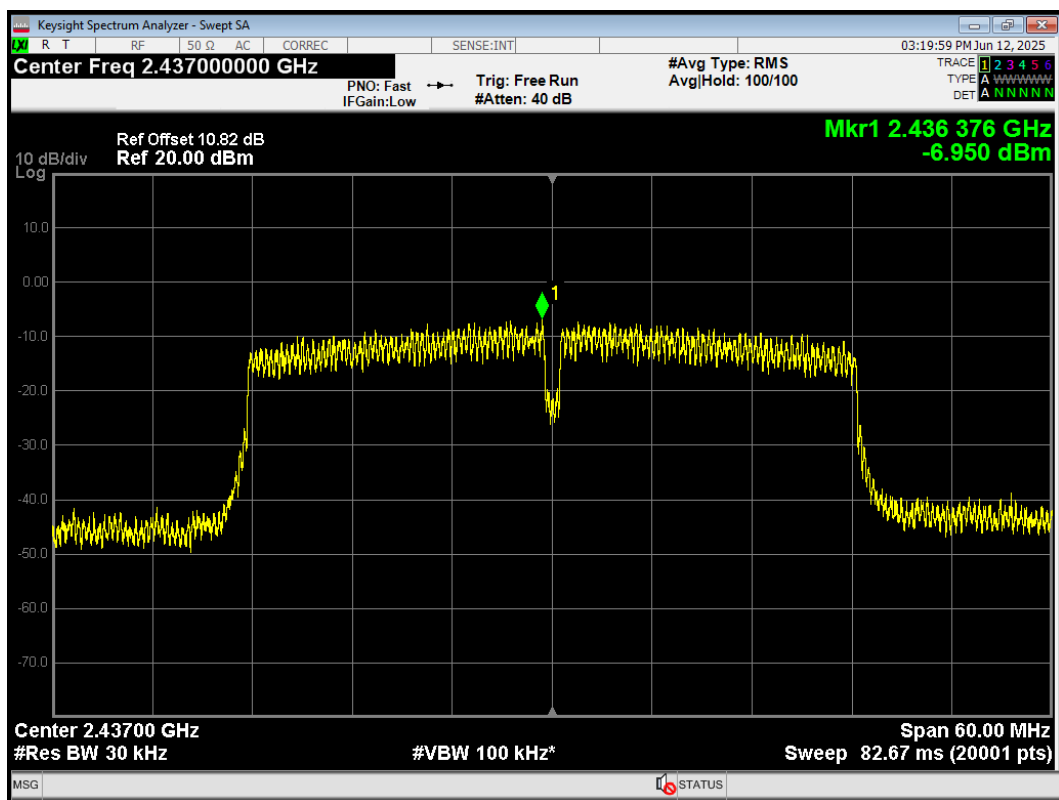
PSD 802.11n(HT40) 2432MHz Ant1



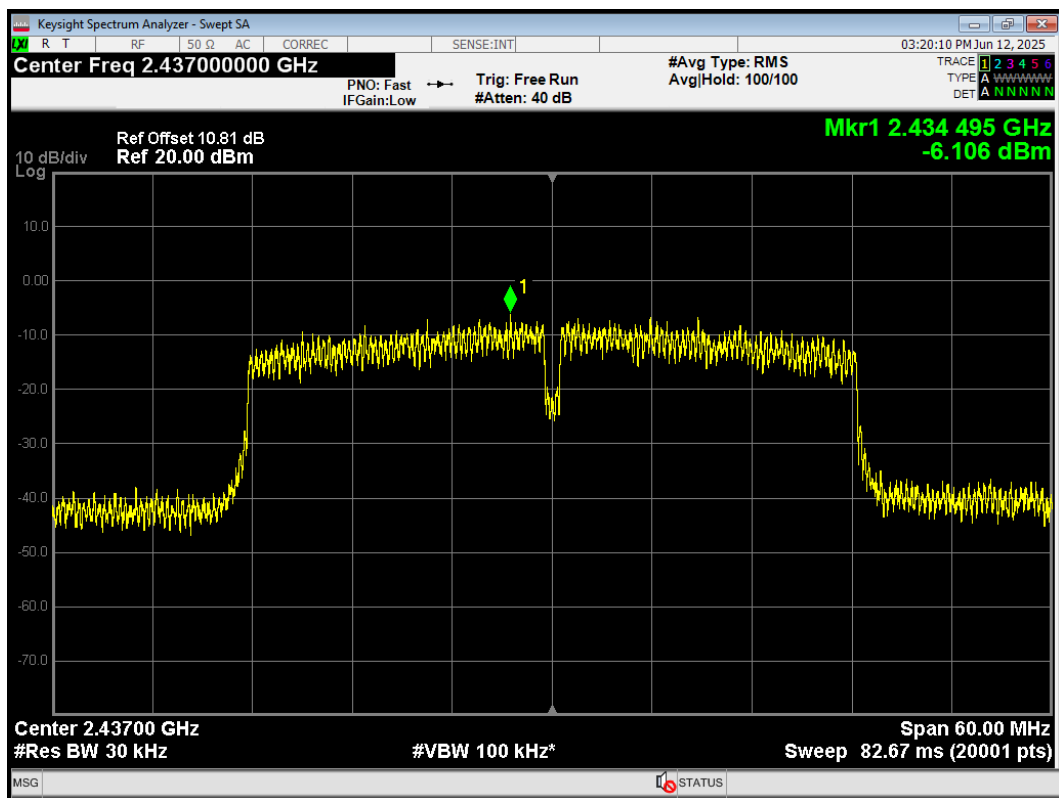
PSD 802.11n(HT40) 2432MHz Ant2



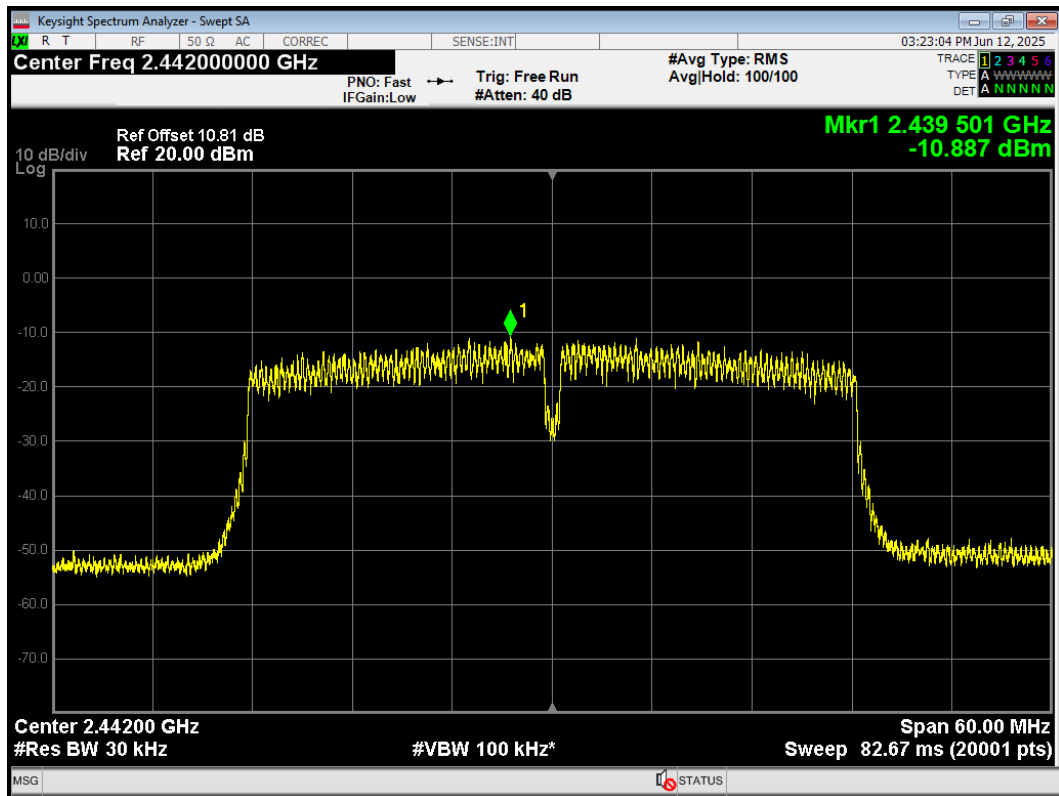
PSD 802.11n(HT40) 2437MHz Ant1



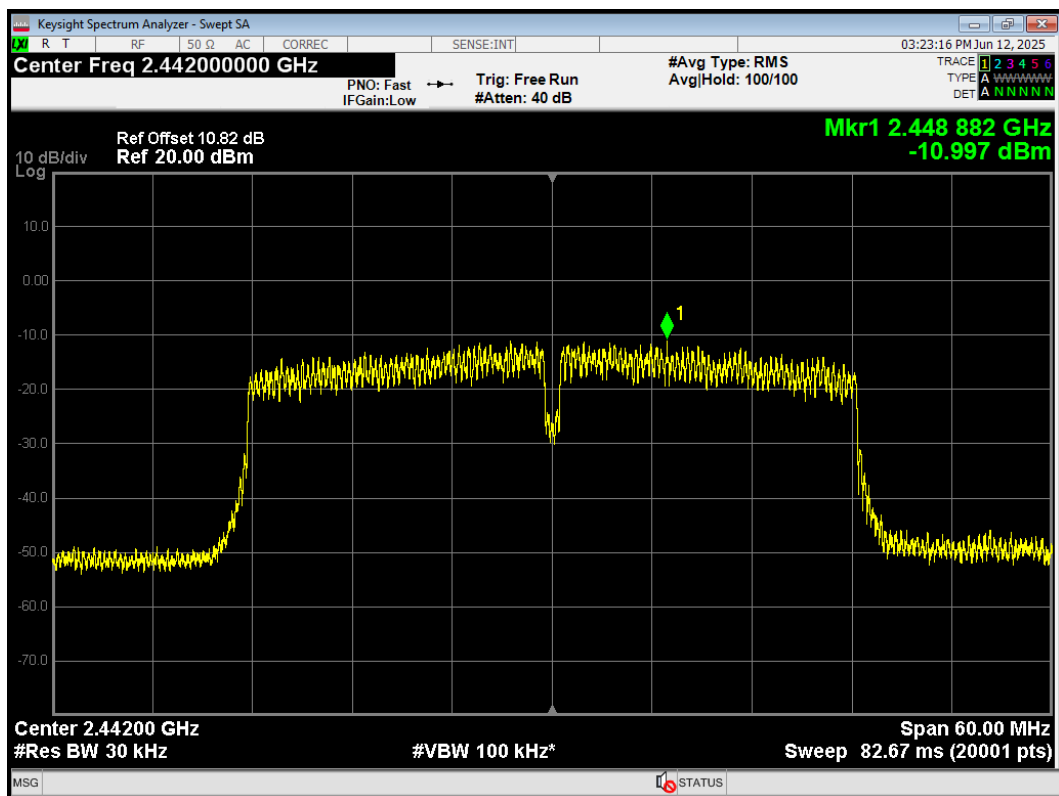
PSD 802.11n(HT40) 2437MHz Ant2



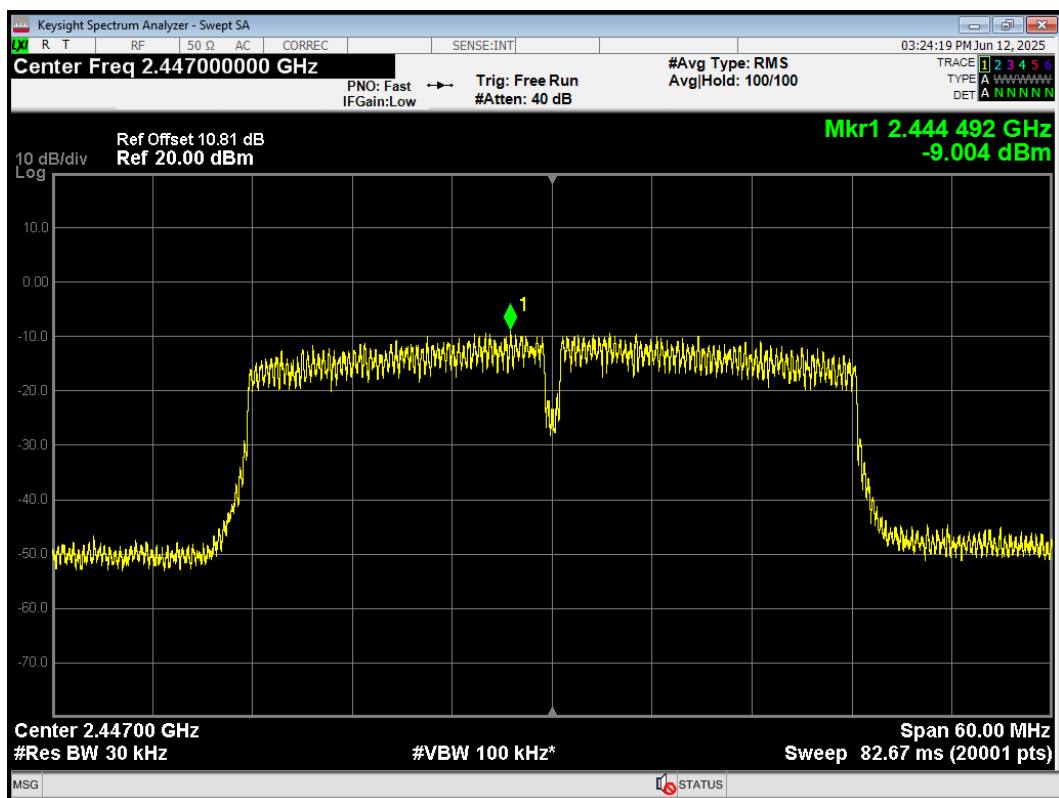
PSD 802.11n(HT40) 2442MHz Ant1



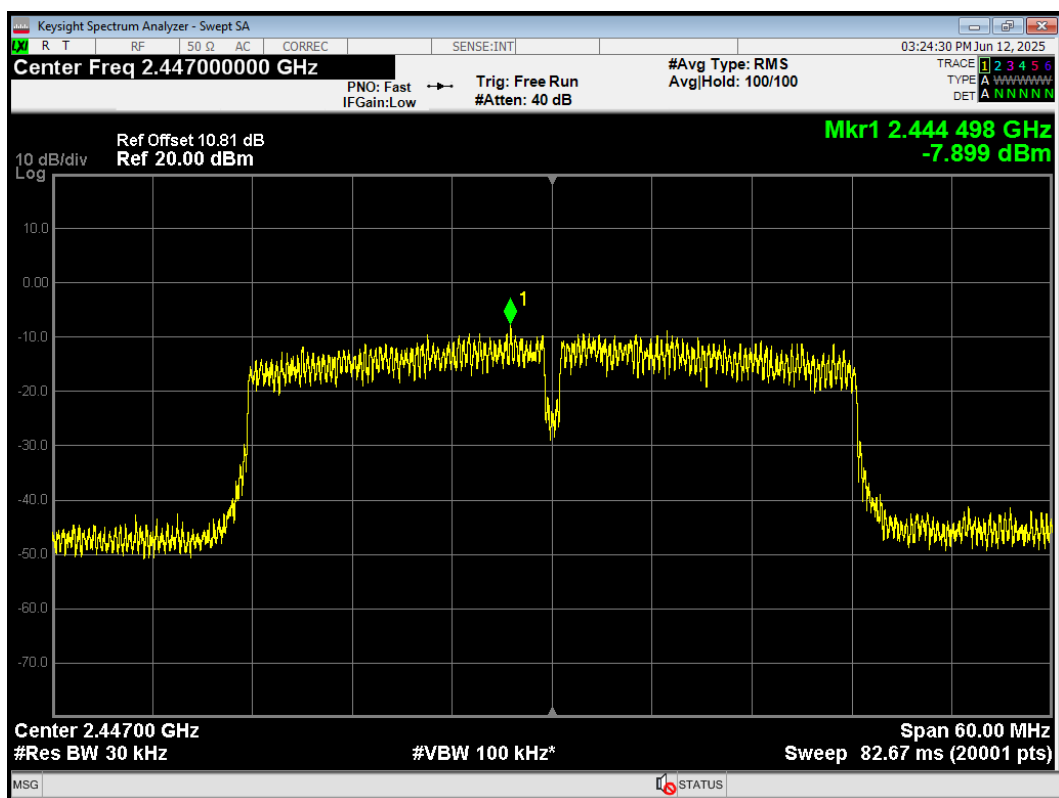
PSD 802.11n(HT40) 2442MHz Ant2



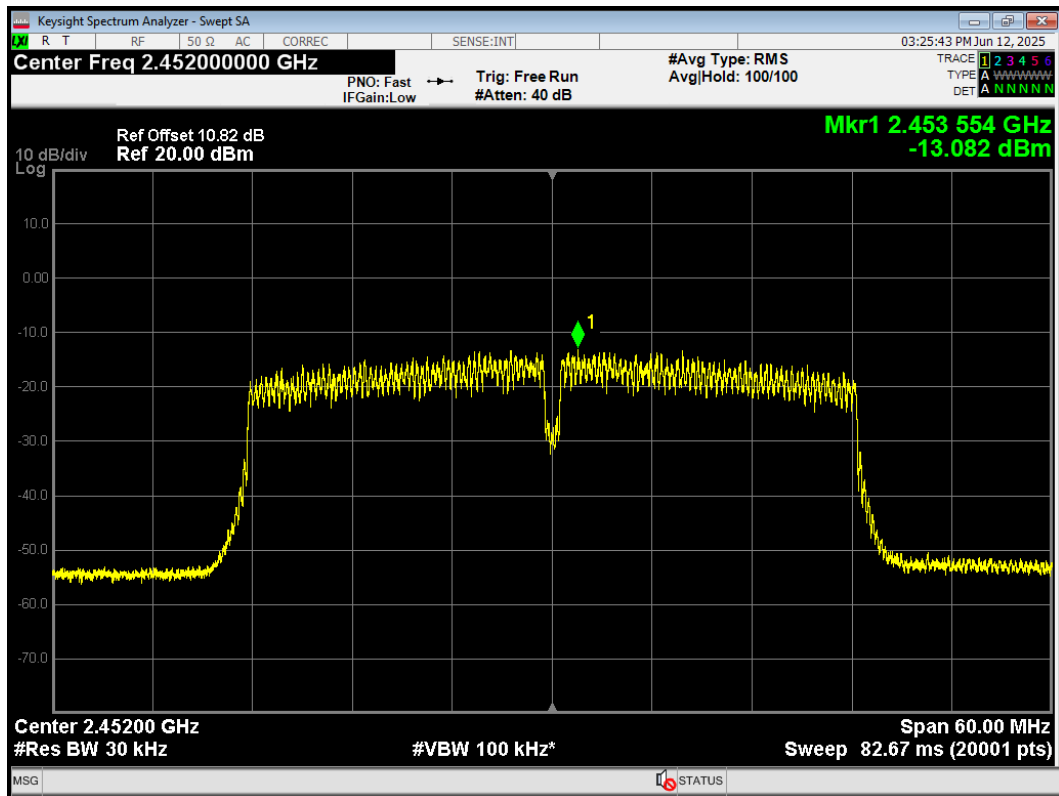
PSD 802.11n(HT40) 2447MHz Ant1



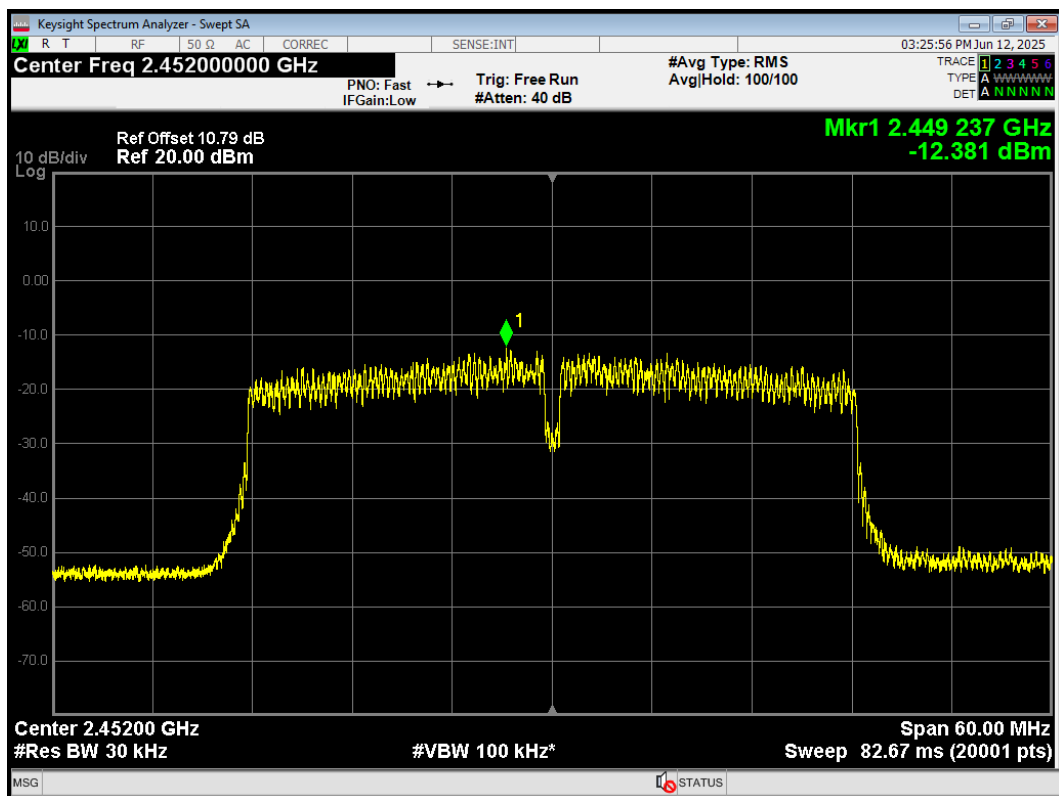
PSD 802.11n(HT40) 2447MHz Ant2



PSD 802.11n(HT40) 2452MHz Ant1



PSD 802.11n(HT40) 2452MHz Ant2



## 5.5. Spurious RF Conducted Emissions

### Ambient Condition

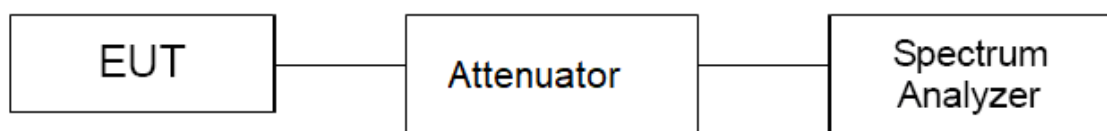
| Temperature | Relative humidity |
|-------------|-------------------|
| 15°C ~ 35°C | 20% ~ 80%         |

### Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to AUTO.

The test is in transmitting mode.

### Test Setup



### Limits

Rule Part 15.247(d) specifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB."

### AOT

| Test Mode | Carrier frequency (MHz) | Reference value (dBm) | Limit  |
|-----------|-------------------------|-----------------------|--------|
| 802.11b   | 2412/CH1                | 14.080                | -15.92 |
|           | 2437/CH6                | 13.850                | -16.15 |
|           | 2452/CH9                | 12.550                | -17.45 |
|           | 2457/CH10               | 13.890                | -16.11 |
|           | 2462/CH11               | 11.610                | -18.39 |
| 802.11g   | 2412/CH1                | 11.510                | -18.49 |
|           | 2417/CH2                | 10.410                | -19.59 |
|           | 2422/CH3                | 10.400                | -19.6  |

|               |           |        |        |
|---------------|-----------|--------|--------|
|               | 2437/CH4  | 12.580 | -17.42 |
|               | 2452/CH9  | 11.170 | -18.83 |
|               | 2457/CH10 | 13.770 | -16.23 |
|               | 2462/CH11 | 9.940  | -20.06 |
| 802.11n HT20  | 2412/CH1  | 10.580 | -19.42 |
|               | 2417/CH2  | 10.420 | -19.58 |
|               | 2422/CH3  | 10.790 | -19.21 |
|               | 2437/CH4  | 12.870 | -17.13 |
|               | 2447/CH8  | 12.140 | -17.86 |
|               | 2452/CH9  | 12.830 | -17.17 |
|               | 2457/CH10 | 10.430 | -19.57 |
|               | 2462/CH11 | 9.570  | -20.43 |
| 802.11n HT40  | 2422/CH3  | 8.460  | -21.54 |
|               | 2427/CH4  | 3.030  | -26.97 |
|               | 2432/CH5  | 3.110  | -26.89 |
|               | 2437/CH6  | 4.910  | -25.09 |
|               | 2442/CH7  | 5.360  | -24.64 |
|               | 2447/CH8  | 3.760  | -26.24 |
|               | 2452/CH9  | 2.460  | -27.54 |
|               |           |        |        |
| 802.11ax HE20 | 2412/CH1  | 1.580  | -28.42 |
|               | 2417/CH2  | 9.760  | -20.24 |
|               | 2422/CH3  | 10.740 | -19.26 |
|               | 2437/CH4  | 13.100 | -16.9  |
|               | 2447/CH8  | 13.150 | -16.85 |
|               | 2452/CH9  | 13.130 | -16.87 |
|               | 2462/CH11 | 9.990  | -20.01 |
|               |           |        |        |
| 802.1ax HE40  | 2422/CH3  | 7.300  | -22.7  |
|               | 2427/CH4  | 3.400  | -26.6  |
|               | 2432/CH5  | 4.220  | -25.78 |
|               | 2437/CH6  | 5.150  | -24.85 |
|               | 2442/CH7  | 6.630  | -23.37 |
|               | 2447/CH8  | 3.150  | -26.85 |
|               | 2452/CH9  | 1.580  | -28.42 |
|               |           |        |        |

## INPAQ

| Test Mode | Carrier frequency (MHz) | Reference value (dBm) | Limit  |
|-----------|-------------------------|-----------------------|--------|
| 802.11b   | 2412/CH1                | 14.080                | -15.92 |
|           | 2417/CH2                | 13.860                | -16.14 |
|           | 2437/CH6                | 13.890                | -16.11 |
|           | 2452/CH9                | 10.660                | -19.34 |

|               |           |        |        |
|---------------|-----------|--------|--------|
|               | 2457/CH10 | 9.140  | -20.86 |
|               | 2462/CH11 | 10.410 | -19.59 |
| 802.11g       | 2412/CH1  | 11.520 | -18.48 |
|               | 2417/CH2  | 12.410 | -17.59 |
|               | 2422/CH3  | 13.130 | -16.87 |
|               | 2437/CH4  | 13.770 | -16.23 |
|               | 2452/CH9  | 9.940  | -20.06 |
|               | 2457/CH10 | 7.450  | -22.55 |
|               | 2462/CH11 | 10.420 | -19.58 |
| 802.11n HT20  | 2412/CH1  | 10.790 | -19.21 |
|               | 2417/CH2  | 12.870 | -17.13 |
|               | 2422/CH3  | 12.140 | -17.86 |
|               | 2437/CH4  | 12.830 | -17.17 |
|               | 2447/CH8  | 12.590 | -17.41 |
|               | 2452/CH9  | 10.380 | -19.62 |
|               | 2457/CH10 | 7.190  | -22.81 |
| 802.11n HT40  | 2462/CH11 | 2.940  | -27.06 |
|               | 2422/CH3  | 3.440  | -26.56 |
|               | 2427/CH4  | 4.910  | -25.09 |
|               | 2432/CH5  | 6.630  | -23.37 |
|               | 2437/CH6  | 2.690  | -27.31 |
|               | 2442/CH7  | 4.940  | -25.06 |
|               | 2447/CH8  | 0.560  | -29.44 |
| 802.11ax HE20 | 2452/CH9  | 8.700  | -21.3  |
|               | 2412/CH1  | 10.740 | -19.26 |
|               | 2417/CH2  | 13.100 | -16.9  |
|               | 2422/CH3  | 13.150 | -16.85 |
|               | 2437/CH4  | 13.130 | -16.87 |
|               | 2447/CH8  | 12.970 | -17.03 |
|               | 2452/CH9  | 10.390 | -19.61 |
| 802.1ax HE40  | 2457/CH10 | 7.300  | -22.7  |
|               | 2462/CH11 | 4.170  | -25.83 |
|               | 2422/CH3  | 4.220  | -25.78 |
|               | 2427/CH4  | 6.940  | -23.06 |
|               | 2432/CH5  | 10.560 | -19.44 |
|               | 2437/CH6  | 5.160  | -24.84 |
|               | 2442/CH7  | 3.150  | -26.85 |
|               | 2447/CH8  | 1.380  | -28.62 |
|               | 2452/CH9  | 14.080 | -15.92 |

**Measurement Uncertainty**

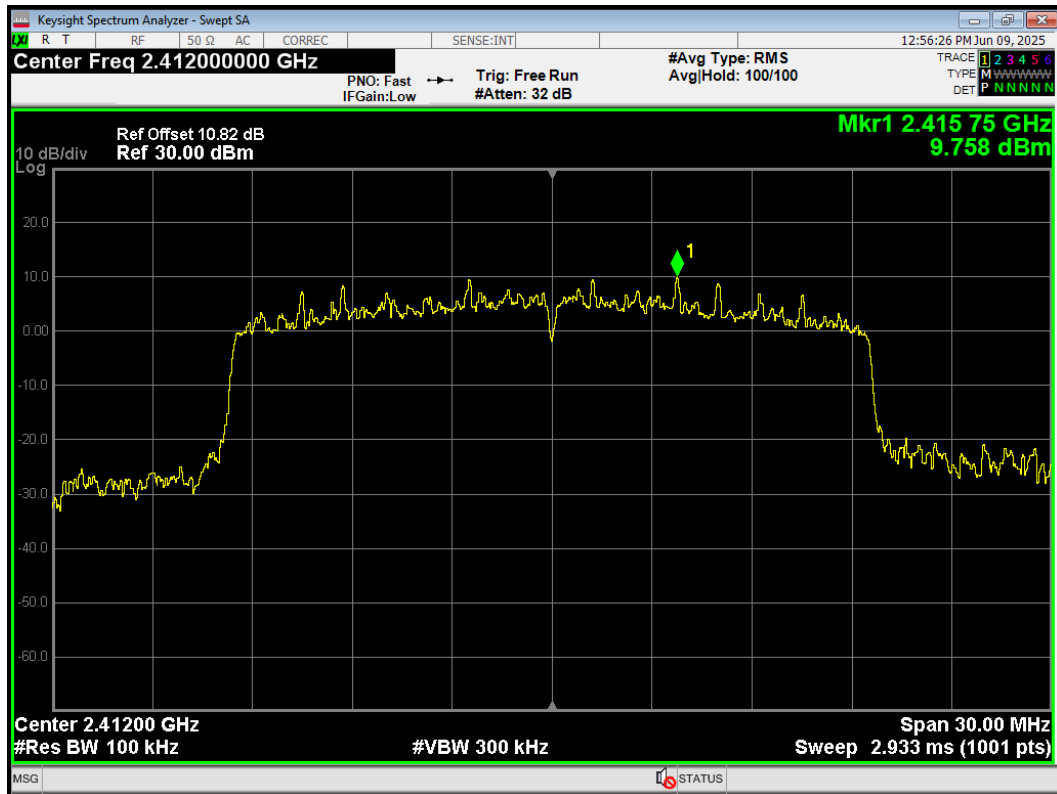
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

| Frequency   | Uncertainty |
|-------------|-------------|
| 100kHz-2GHz | 0.684 dB    |
| 2GHz-26GHz  | 1.407 dB    |

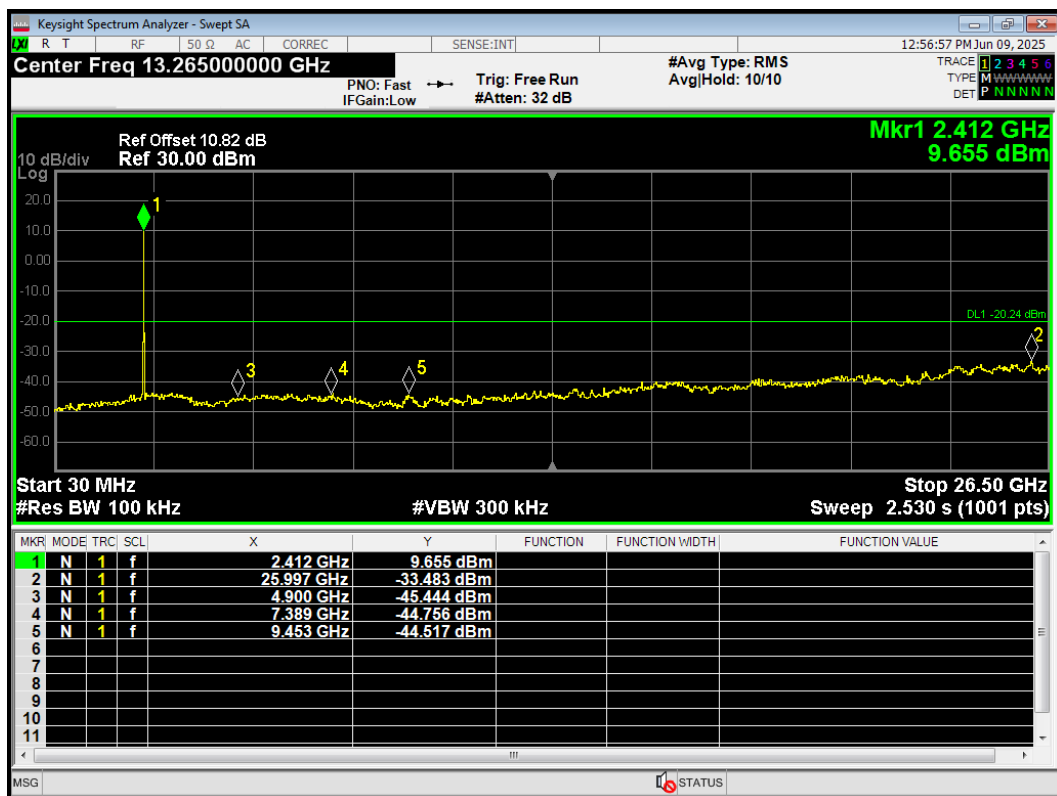
Test Results:

AOT

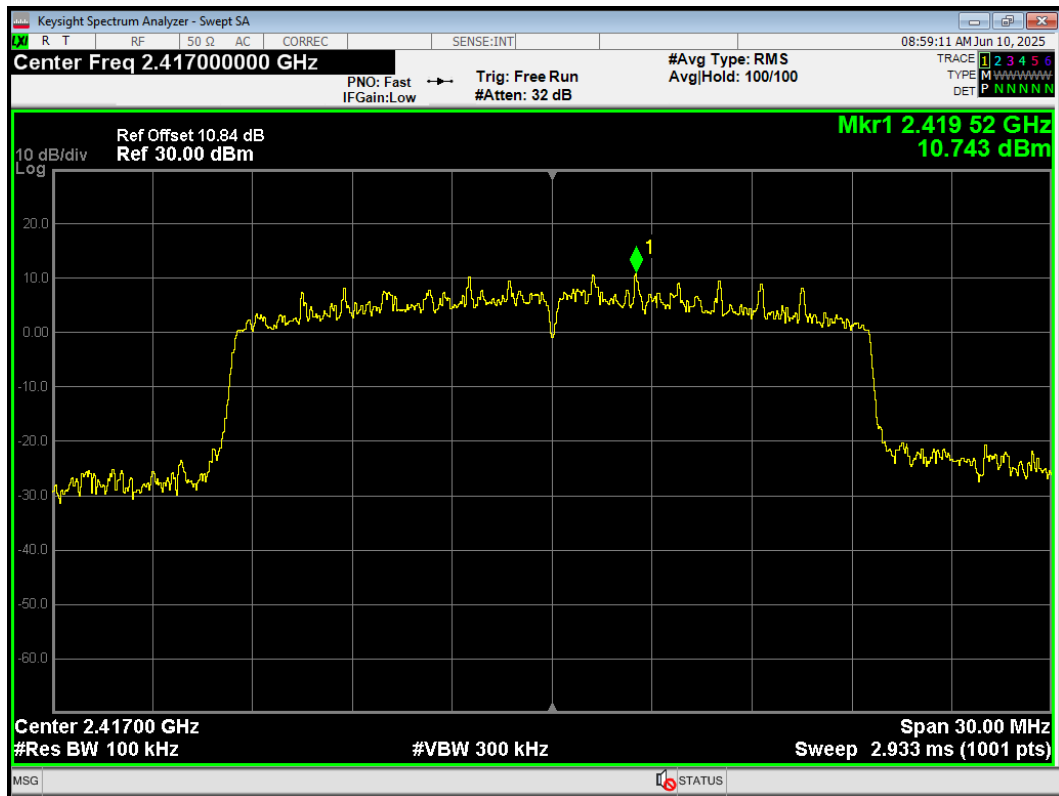
Tx. Spurious 802.11ax(HE20) 2412MHz Ref



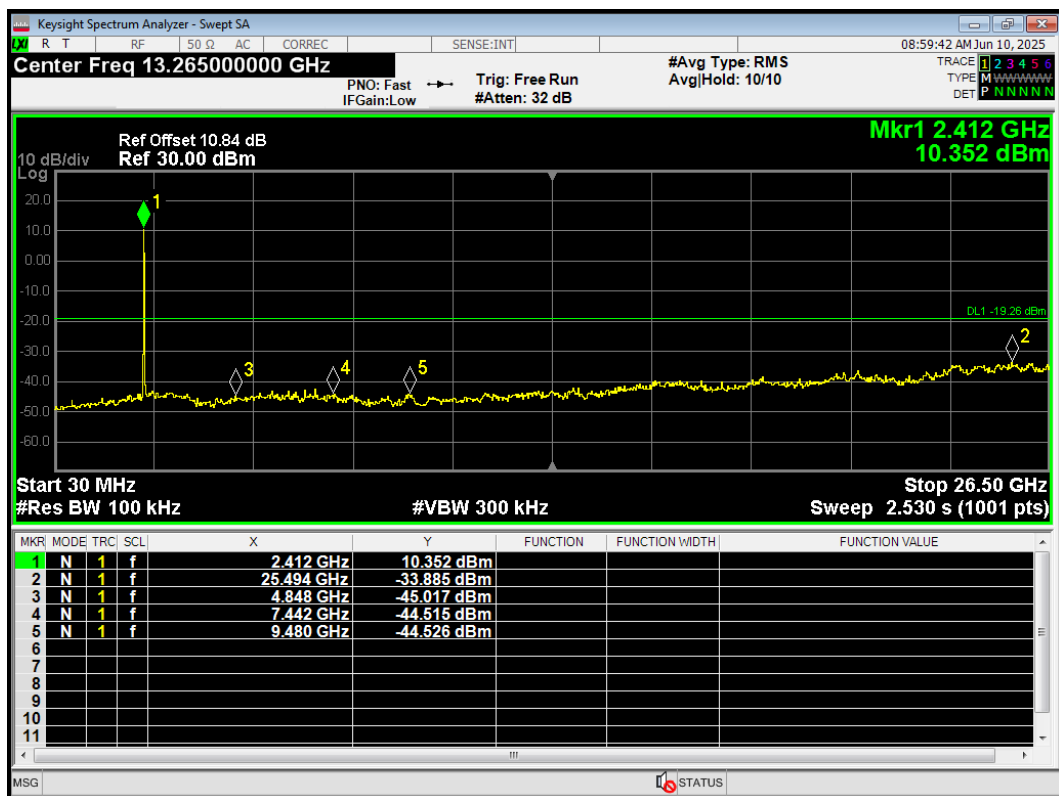
Tx. Spurious 802.11ax(HE20) 2412MHz Emission



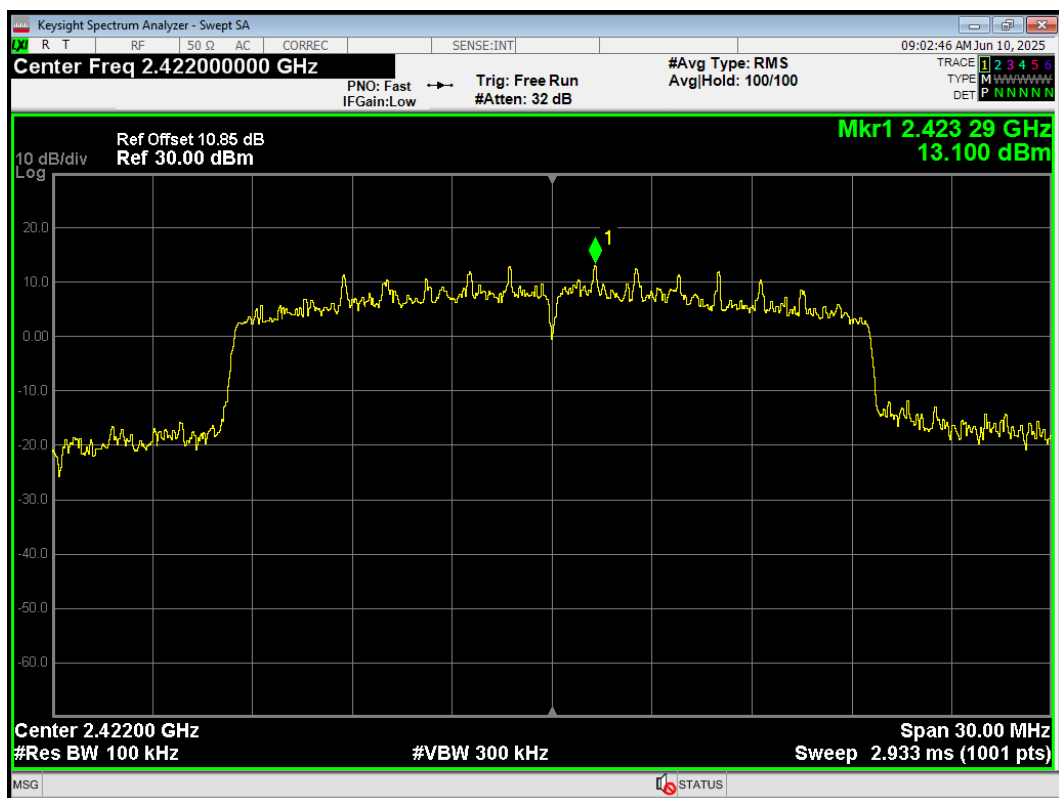
Tx. Spurious 802.11ax(HE20) 2417MHz Ref



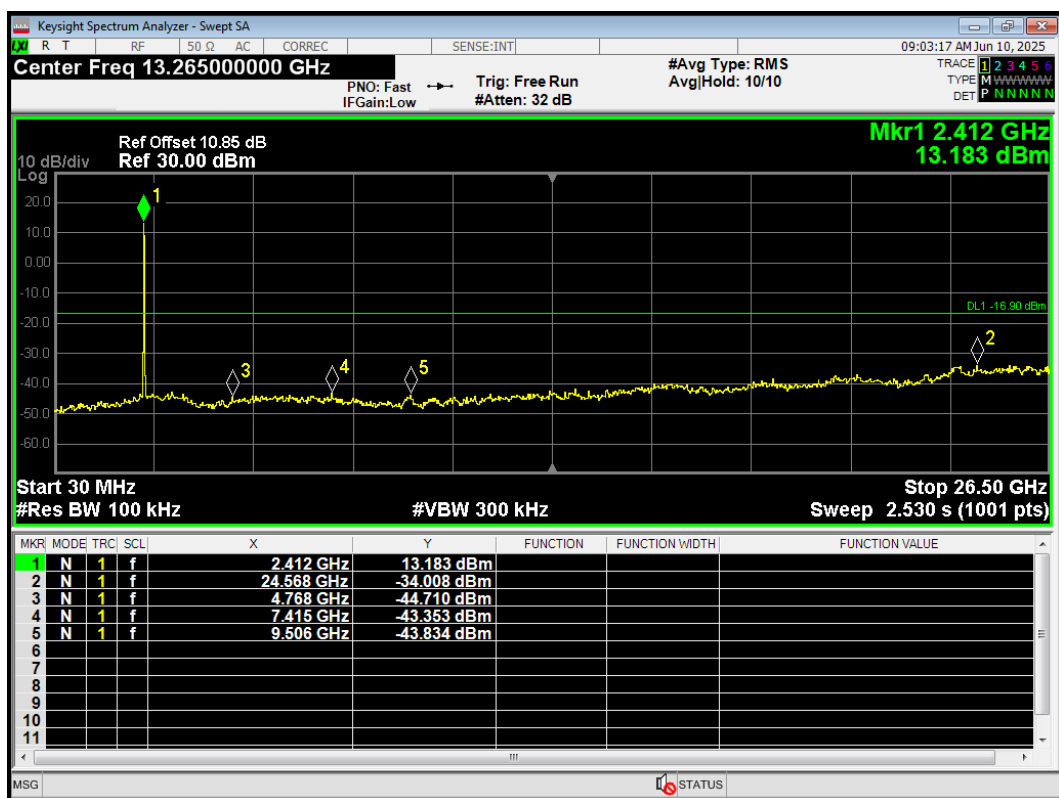
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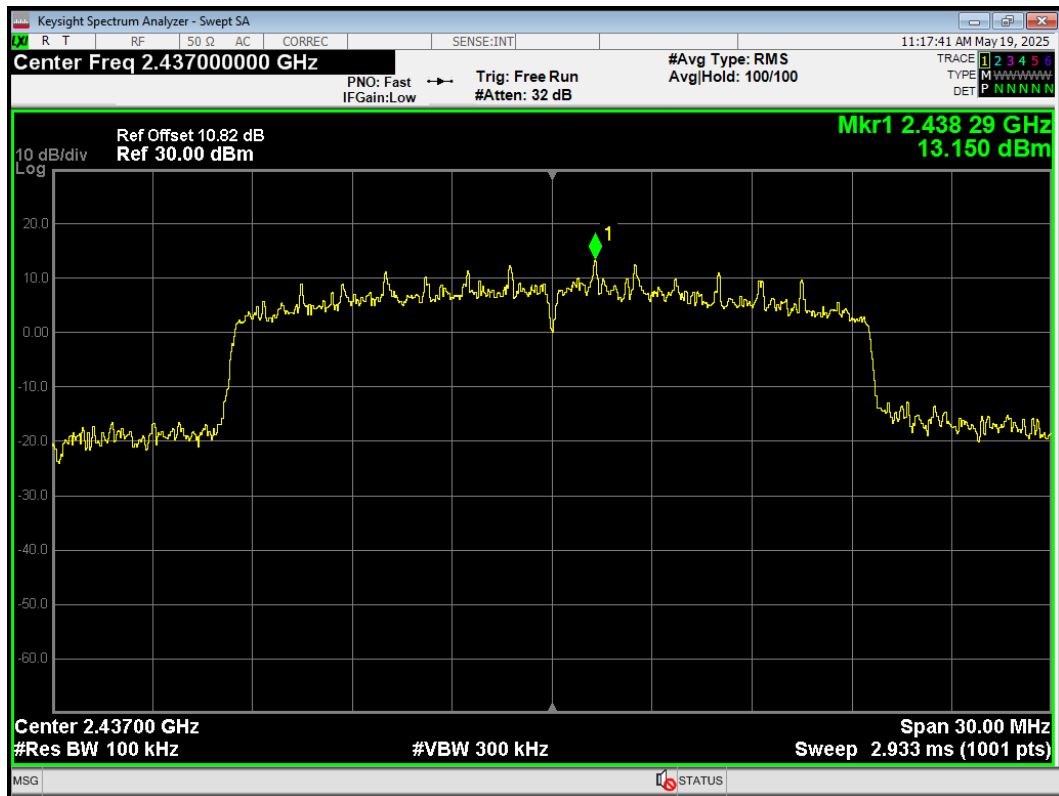
Tx. Spurious 802.11ax(HE20) 2422MHz Ref



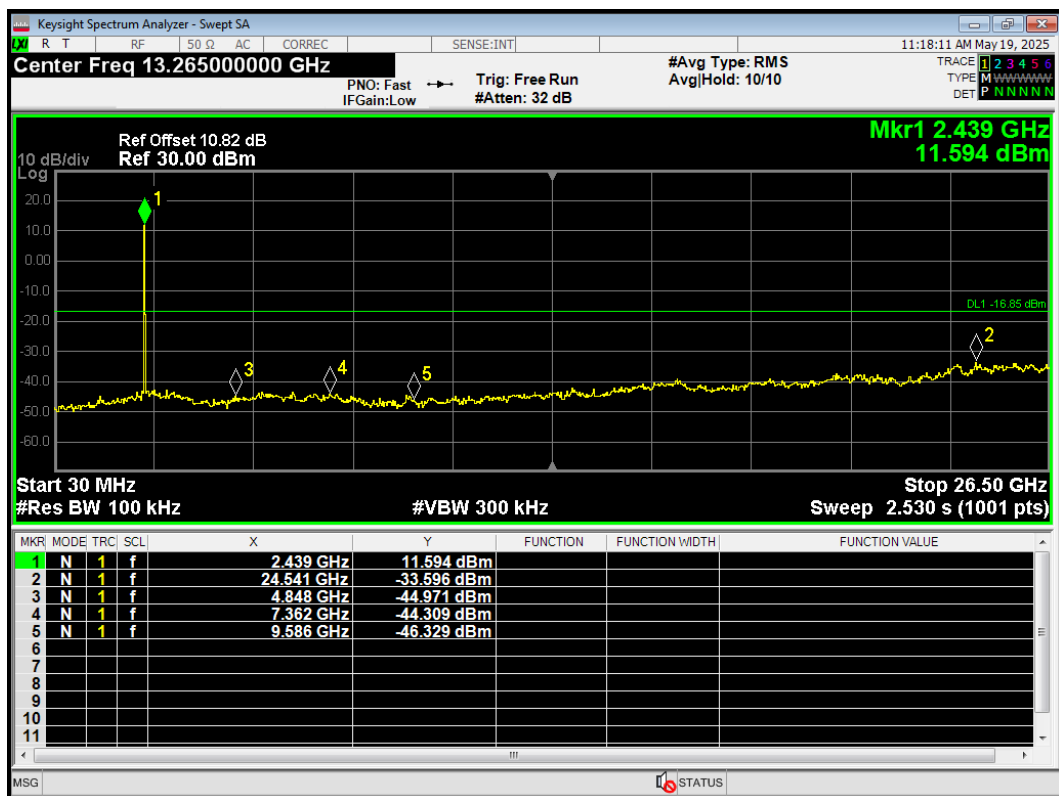
Tx. Spurious 802.11ax(HE20) 2422MHz Emission



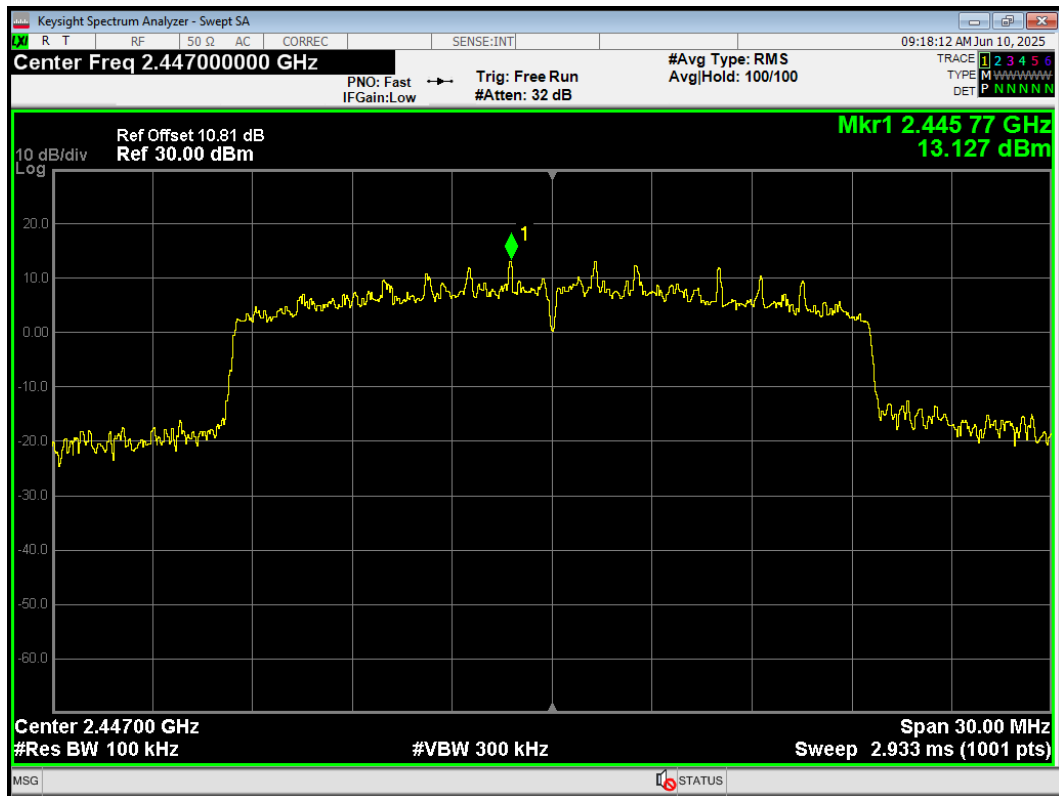
Tx. Spurious 802.11ax(HE20) 2437MHz Ref



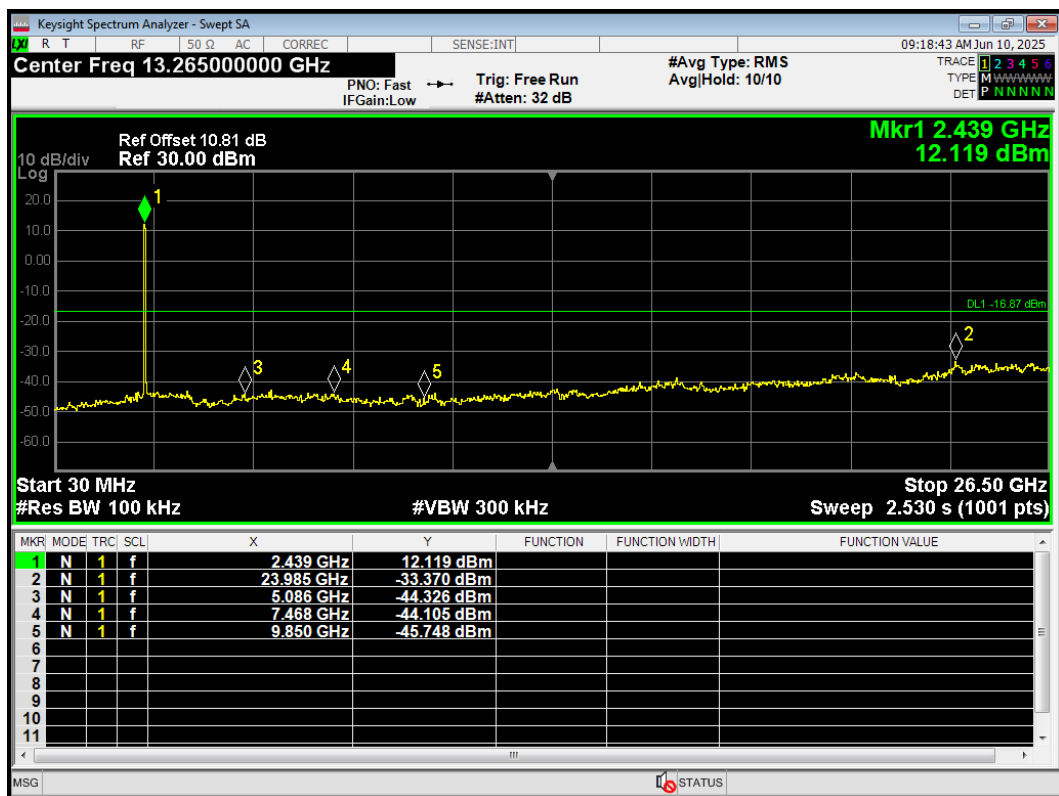
Tx. Spurious 802.11ax(HE20) 2437MHz Emission



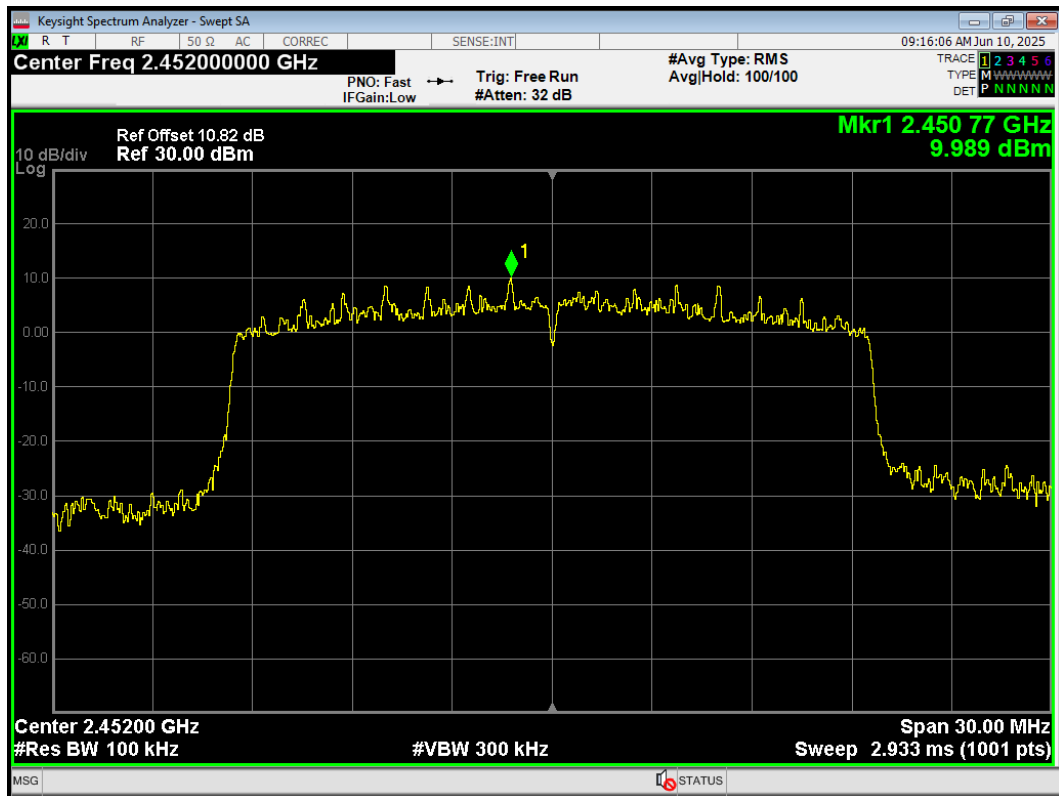
Tx. Spurious 802.11ax(HE20) 2447MHz Ref



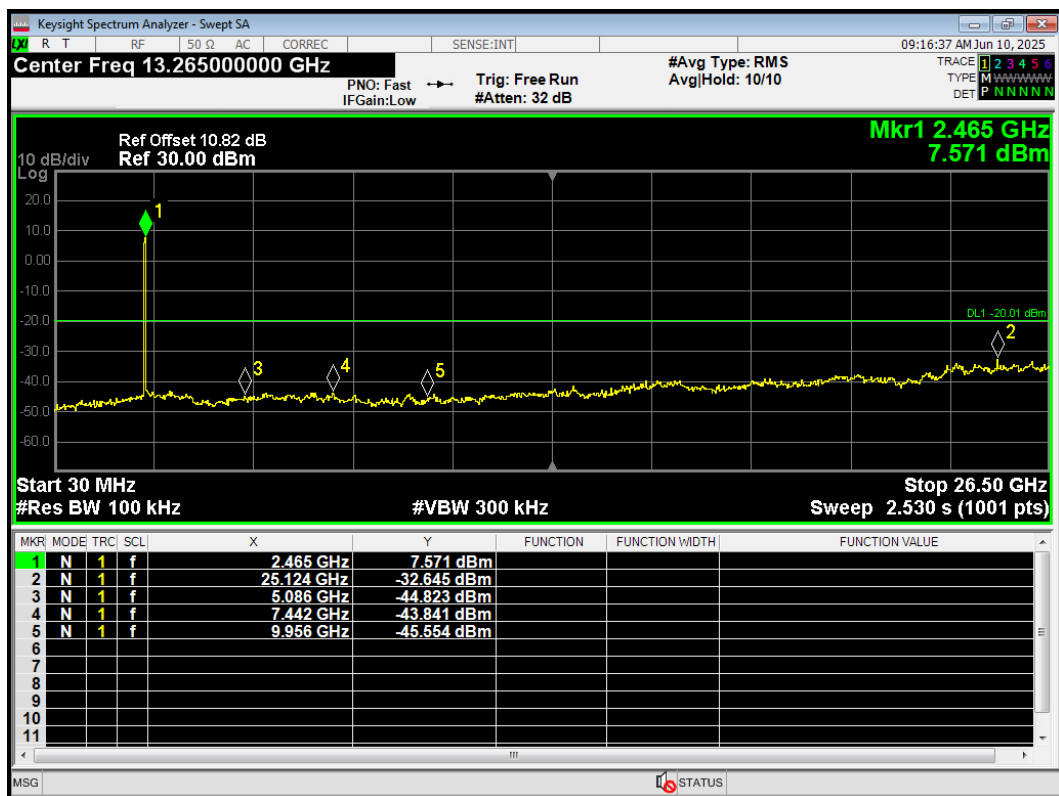
Tx. Spurious 802.11ax(HE20) 2447MHz Emission



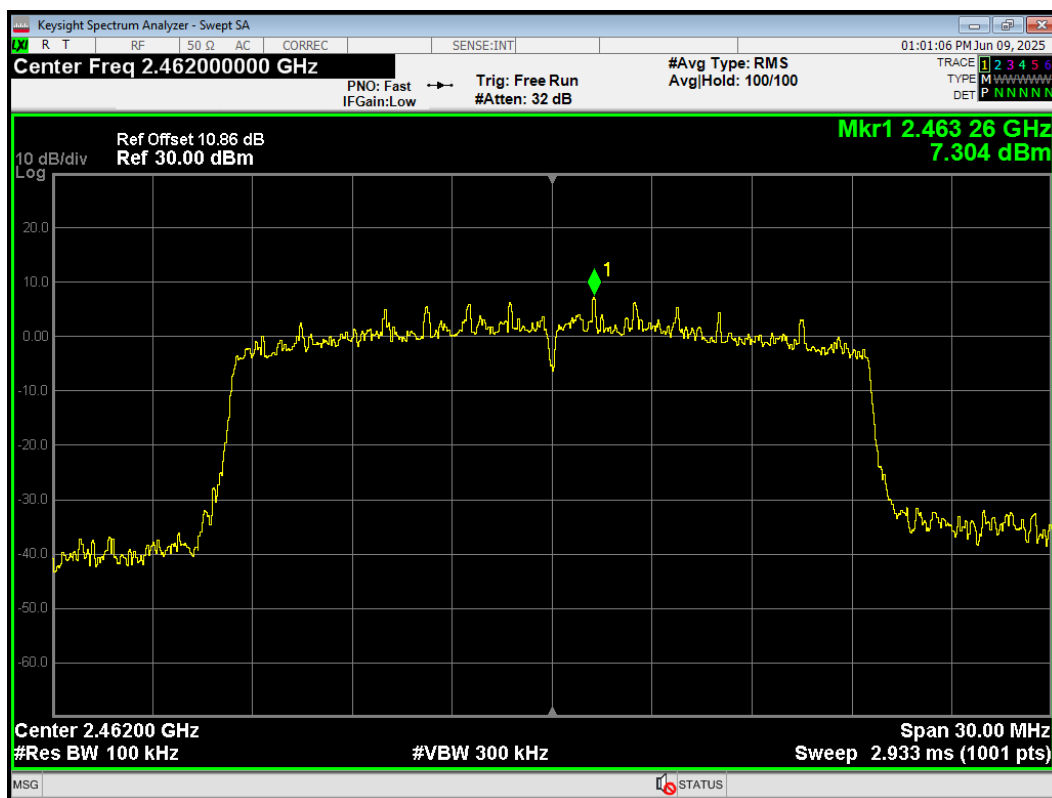
Tx. Spurious 802.11ax(HE20) 2452MHz Ref



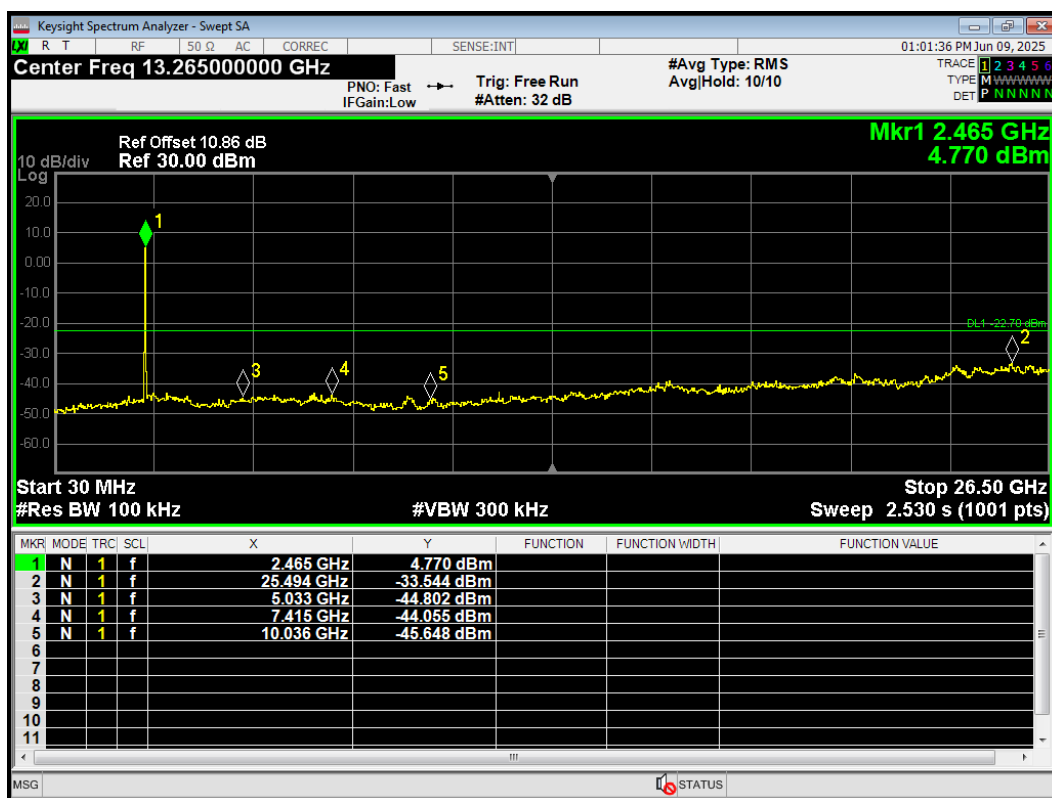
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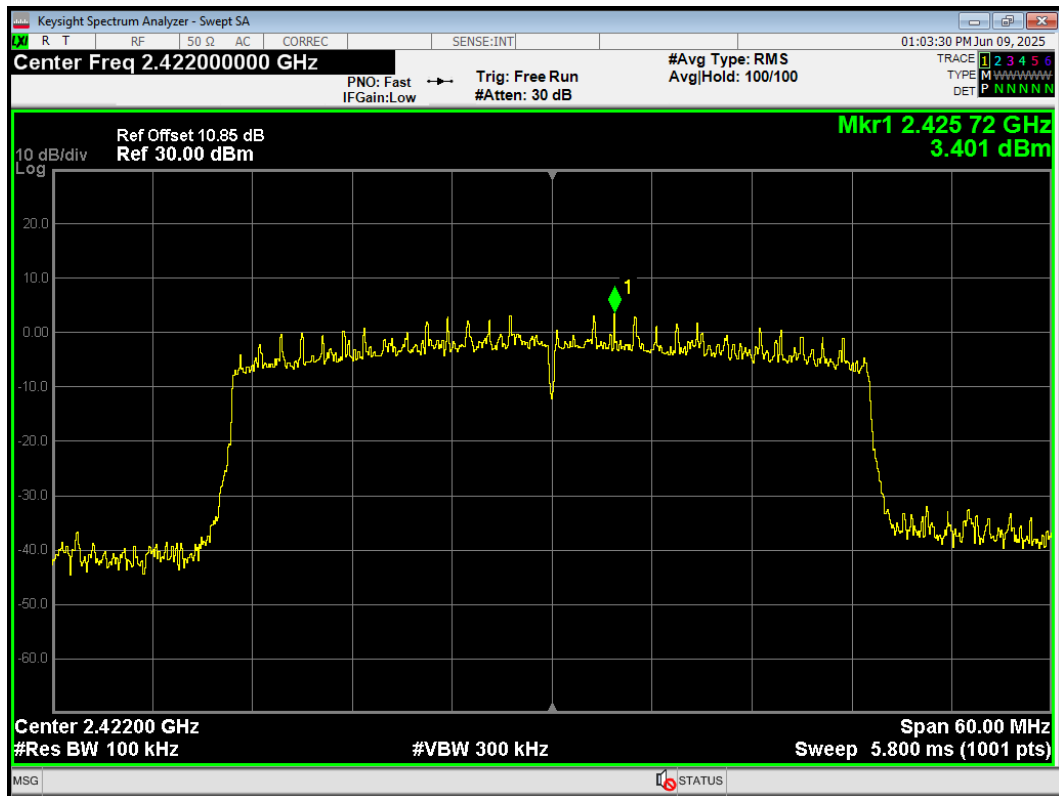
Tx. Spurious 802.11ax(HE20) 2462MHz Ref



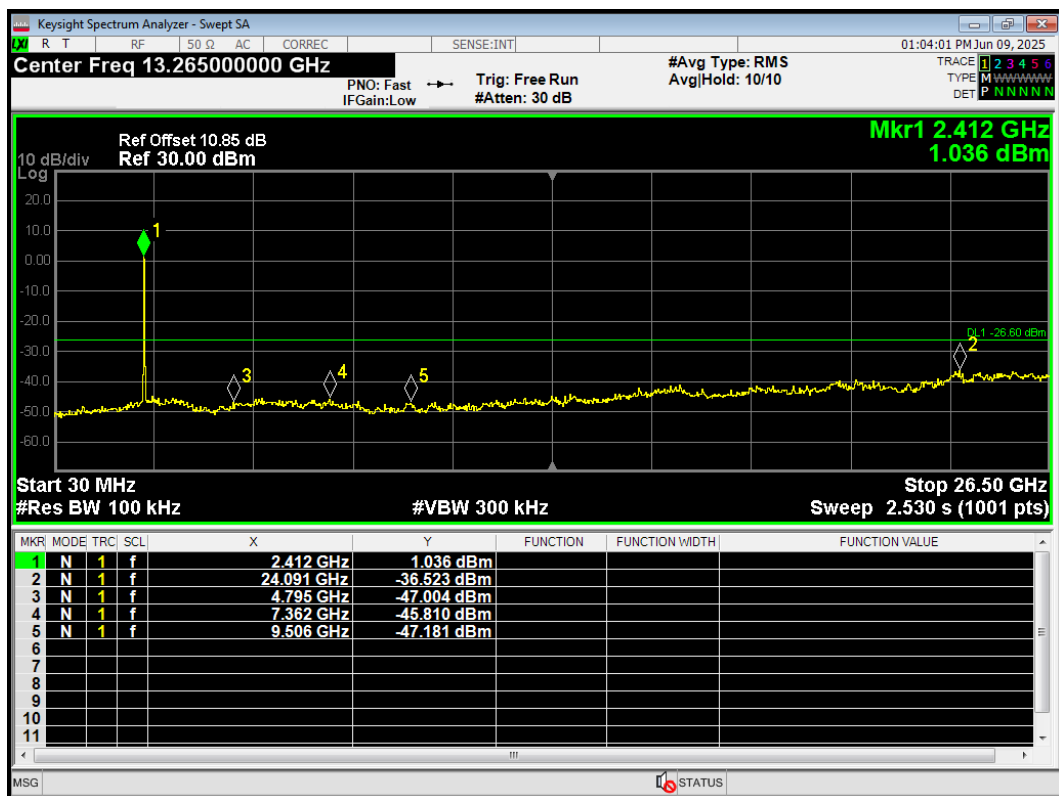
Tx. Spurious 802.11ax(HE20) 2462MHz Emission



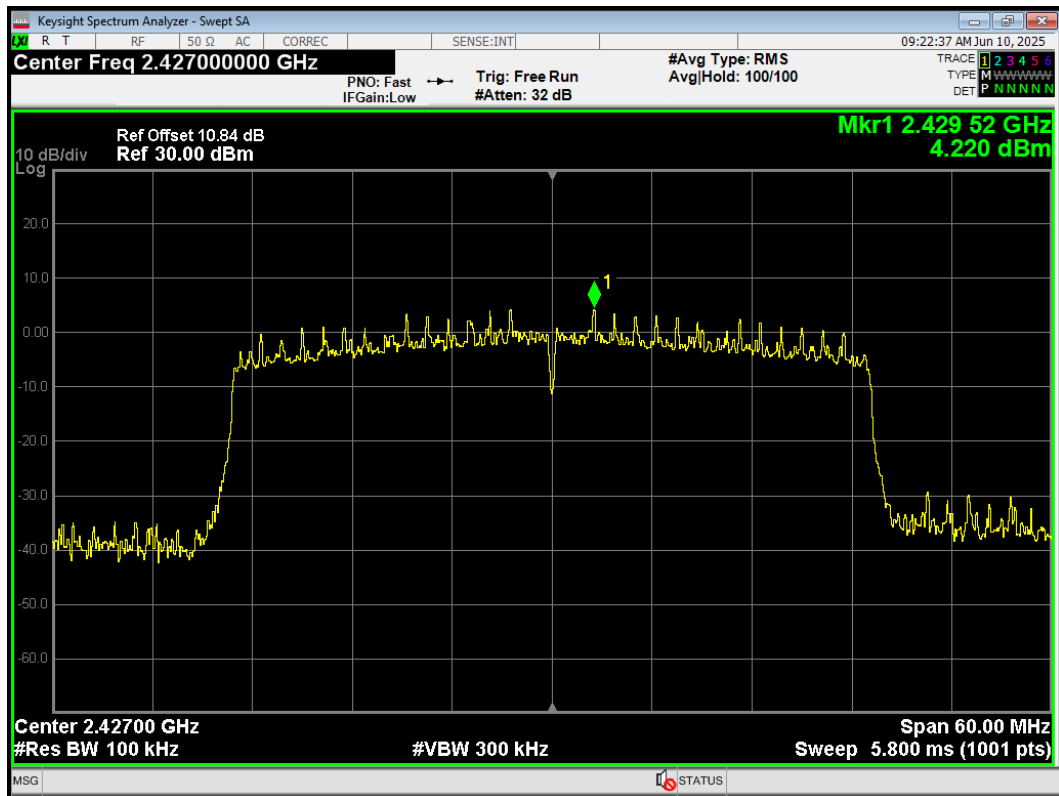
Tx. Spurious 802.11ax(HE40) 2422MHz Ref



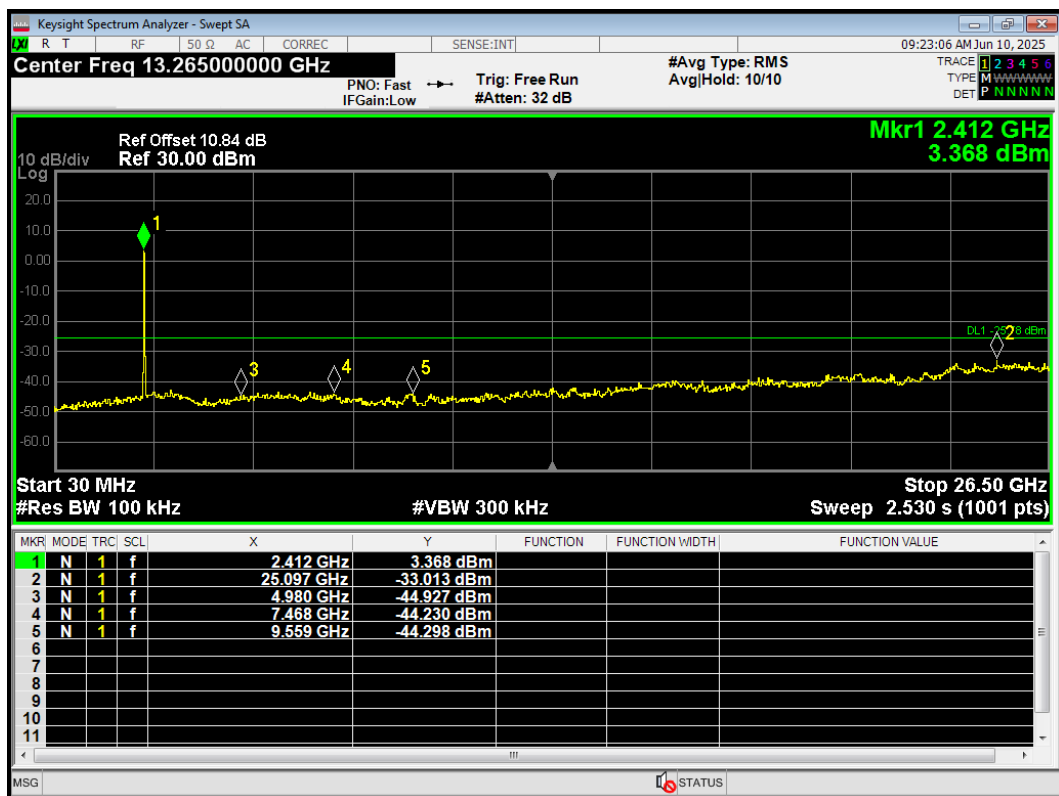
Tx. Spurious 802.11ax(HE40) 2422MHz Emission



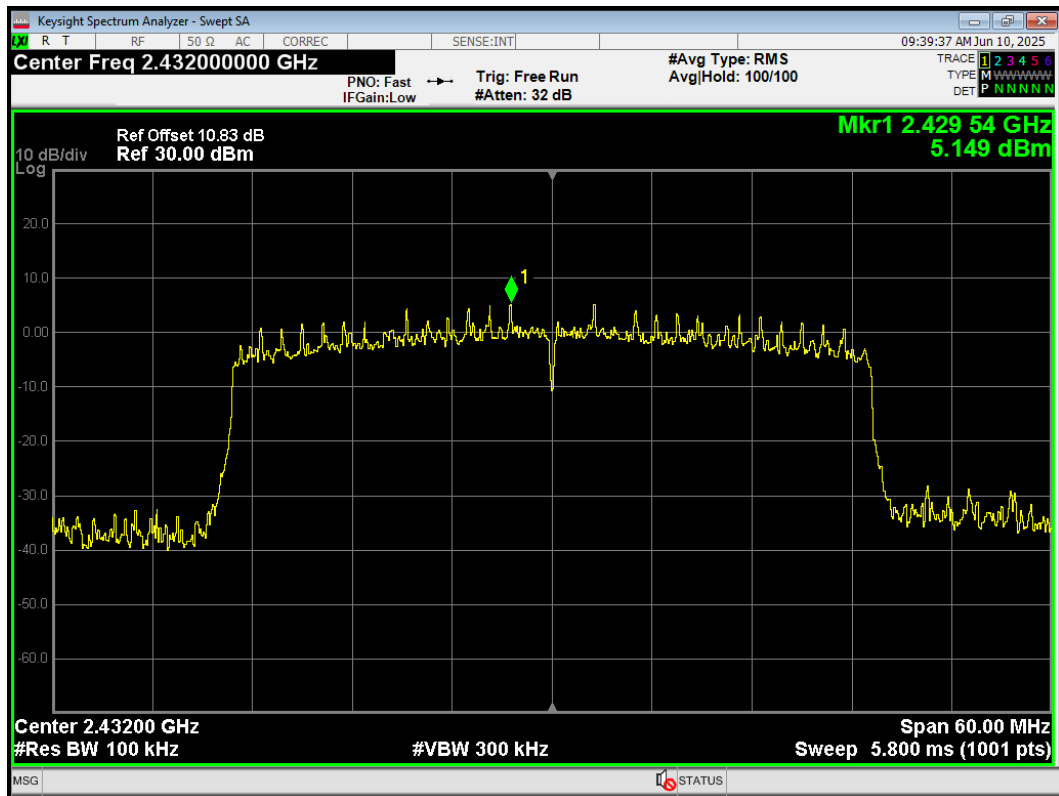
Tx. Spurious 802.11ax(HE40) 2427MHz Ref



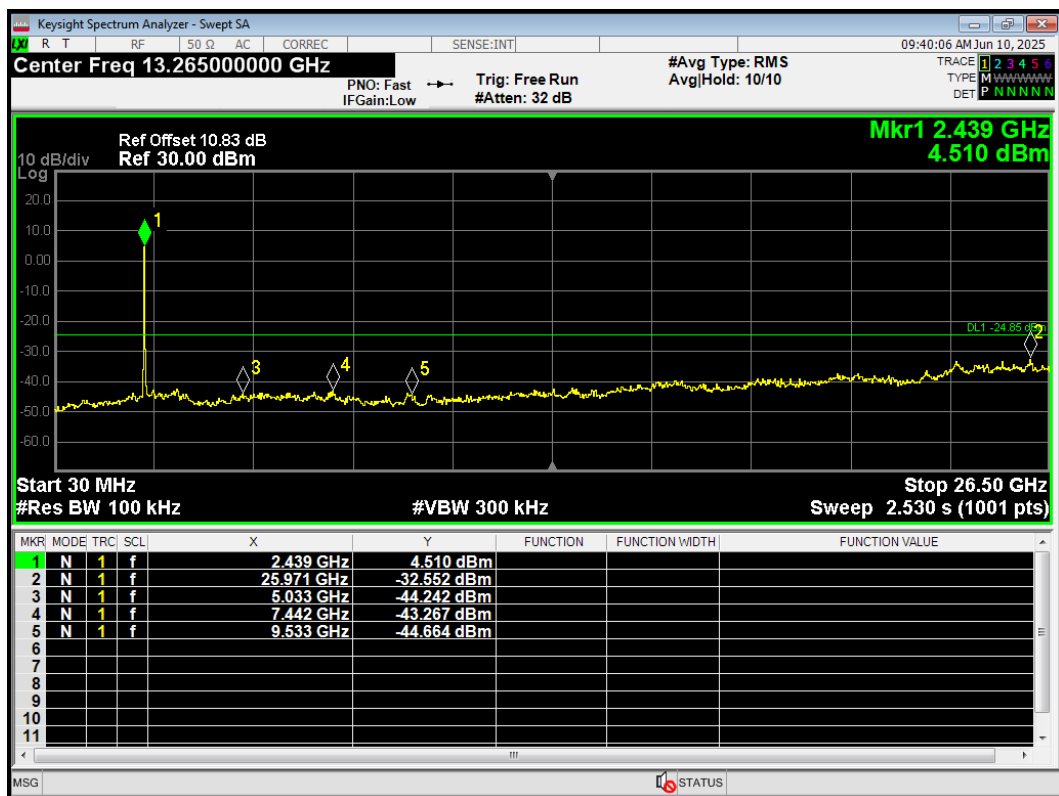
Tx. Spurious 802.11ax(HE40) 2427MHz Emission



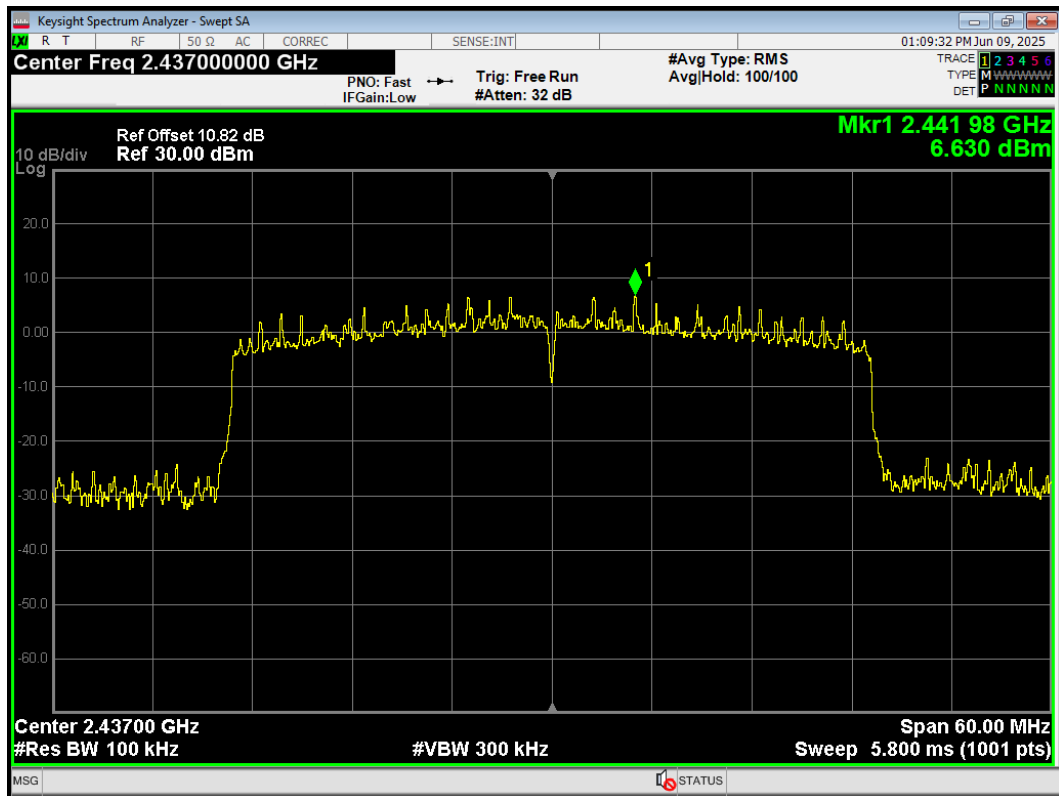
Tx. Spurious 802.11ax(HE40) 2432MHz Ref



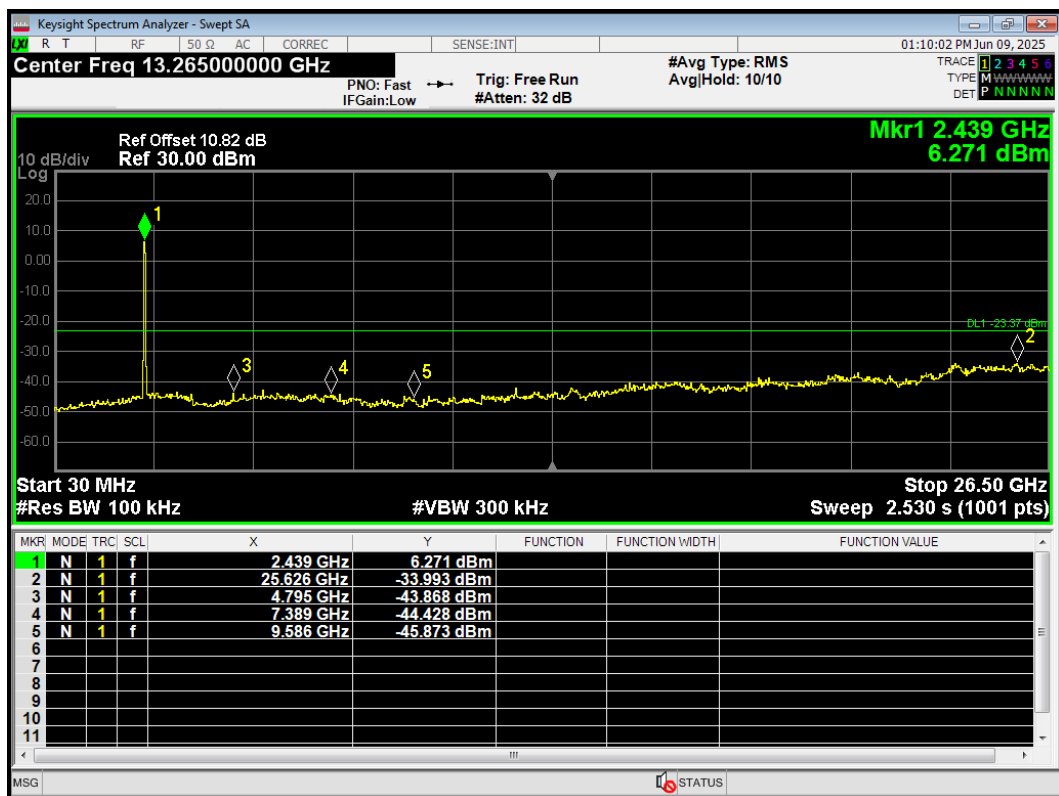
Tx. Spurious 802.11ax(HE40) 2432MHz Emission



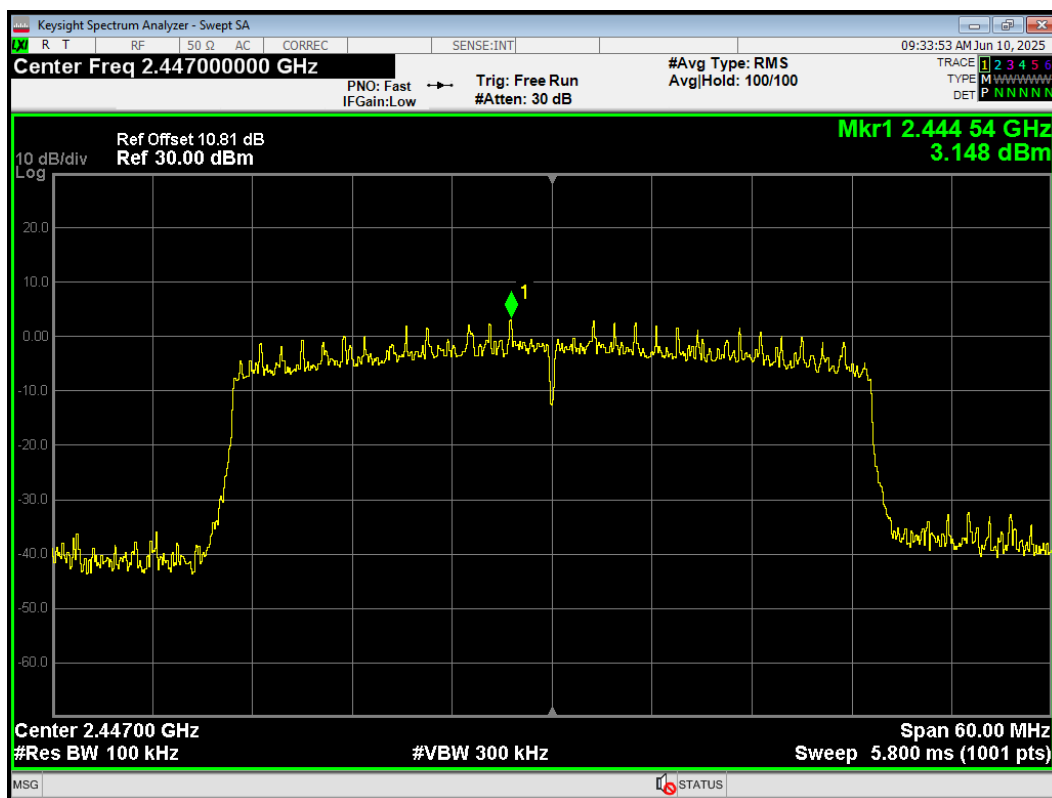
Tx. Spurious 802.11ax(HE40) 2437MHz Ref



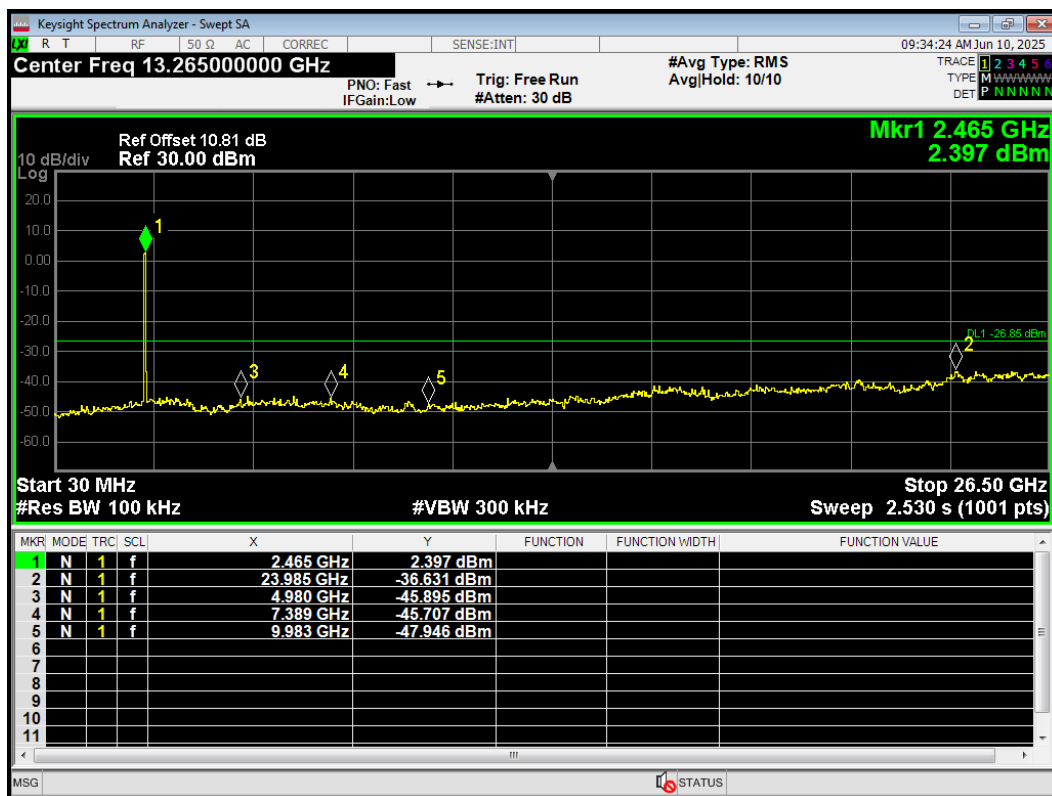
Tx. Spurious 802.11ax(HE40) 2437MHz Emission



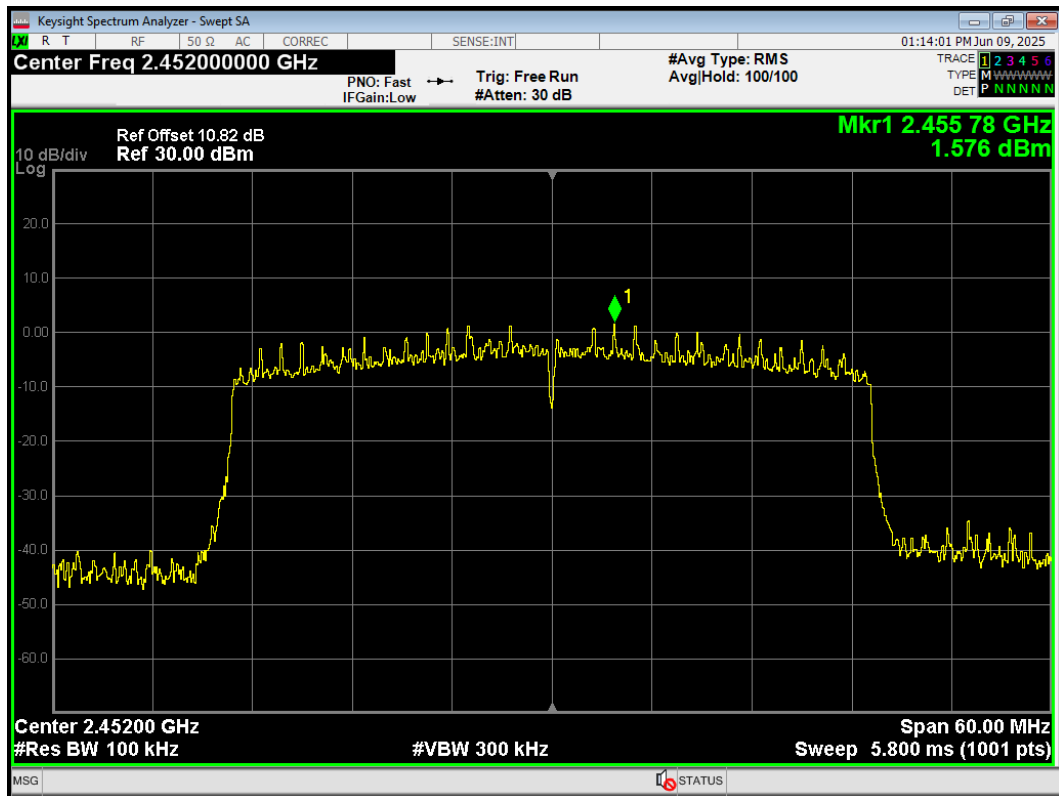
Tx. Spurious 802.11ax(HE40) 2447MHz Ref



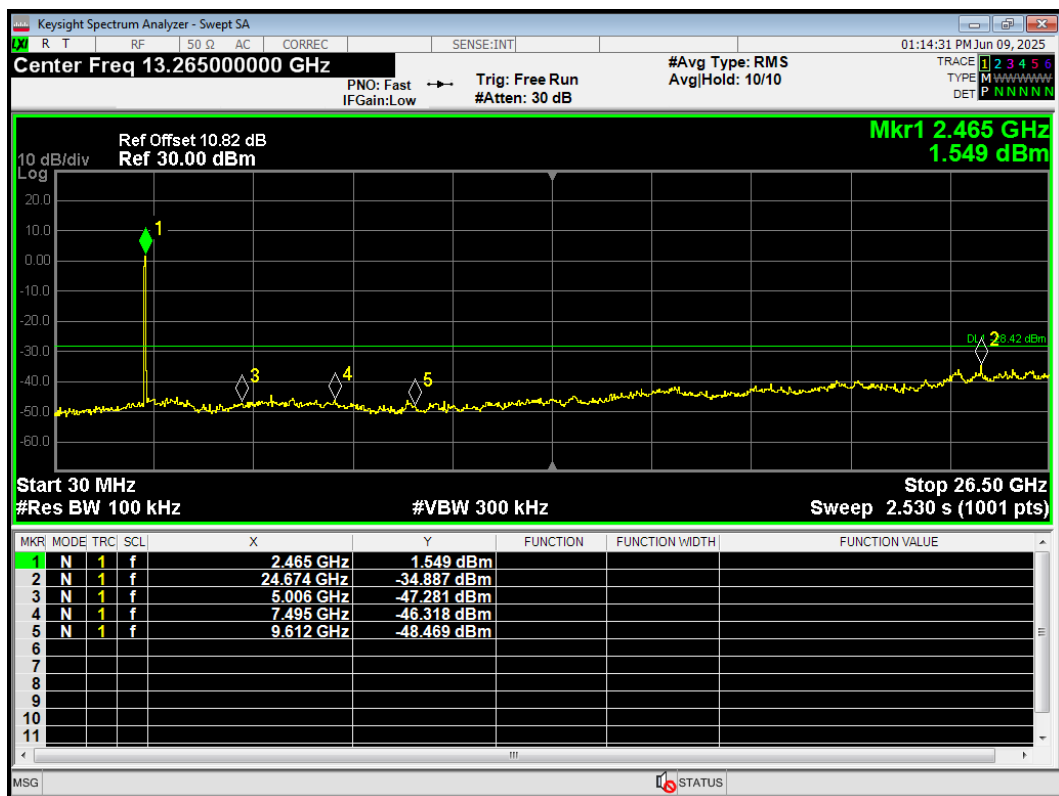
Tx. Spurious 802.11ax(HE40) 2447MHz Emission



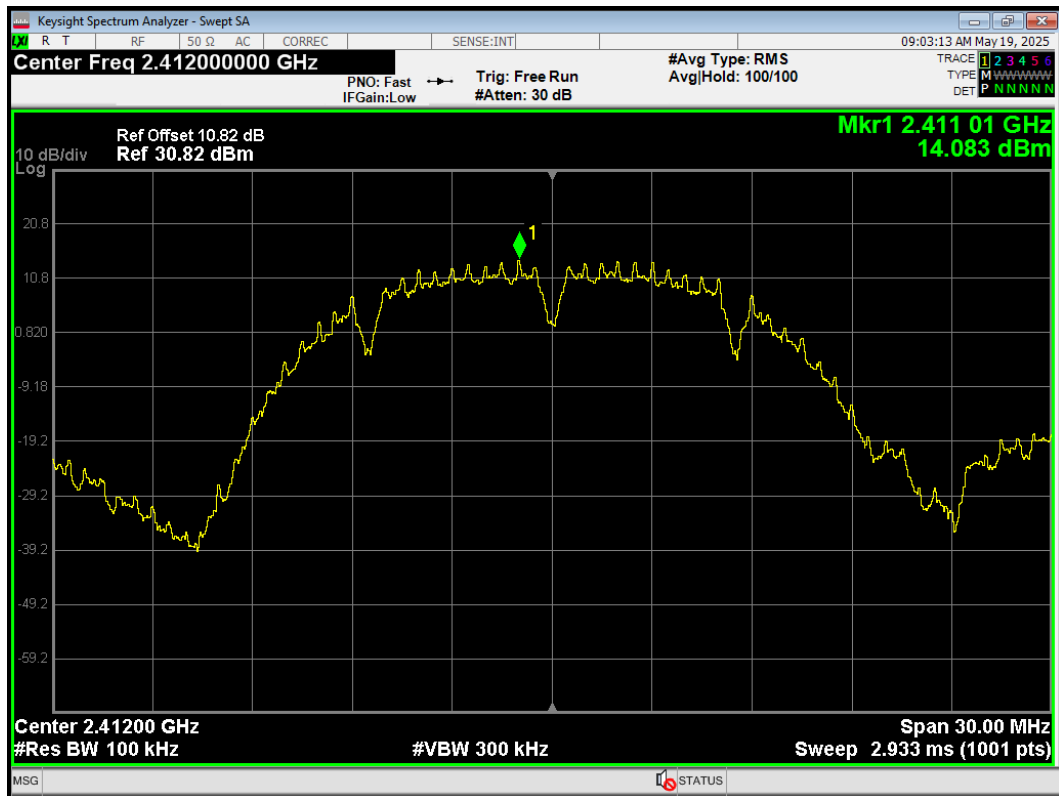
Tx. Spurious 802.11ax(HE40) 2452MHz Ref



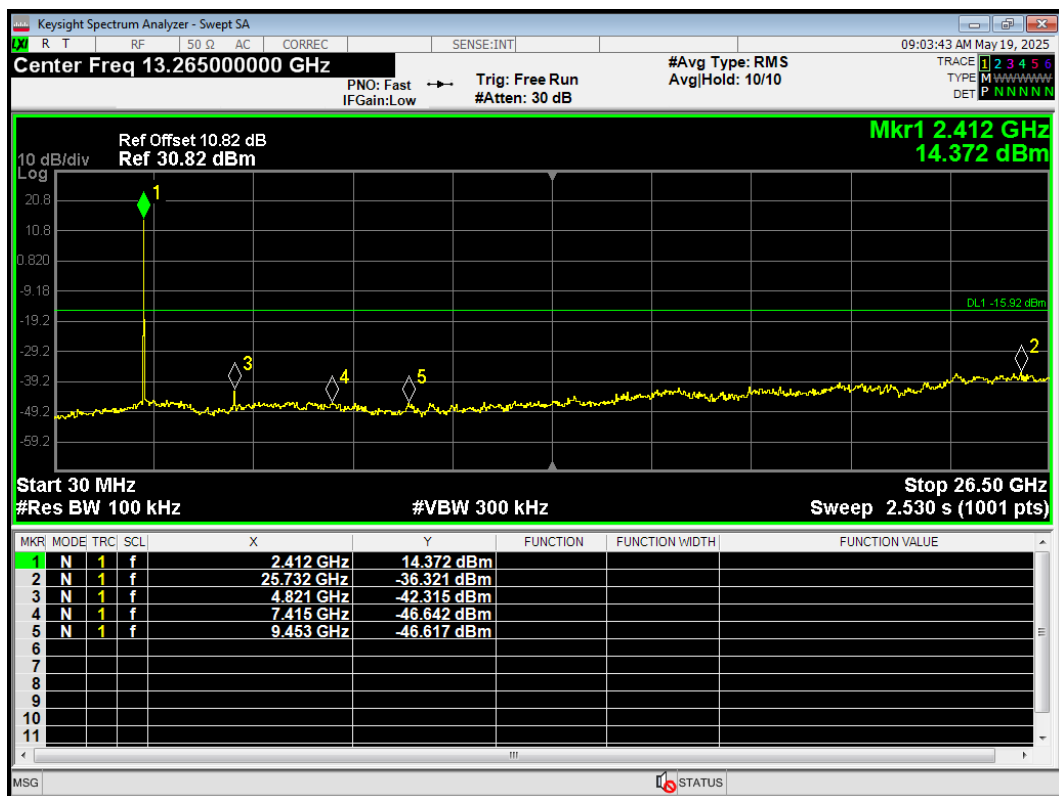
Tx. Spurious 802.11ax(HE40) 2452MHz Emission



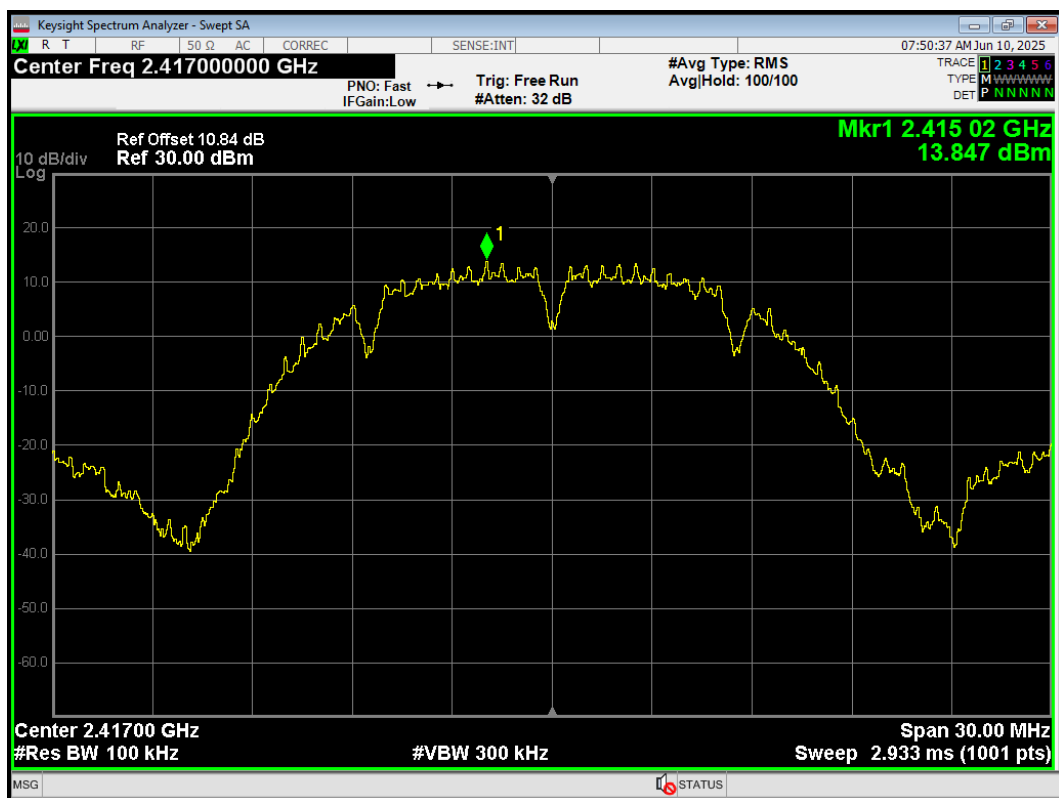
Tx. Spurious 802.11b 2412MHz Ref



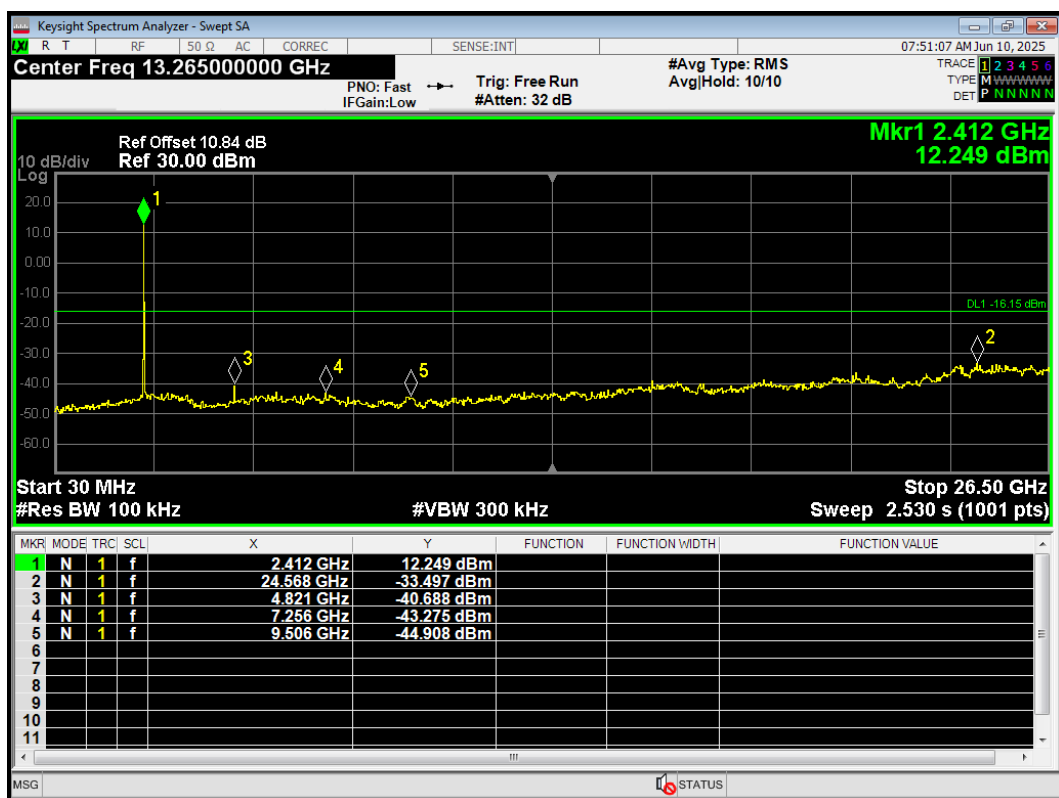
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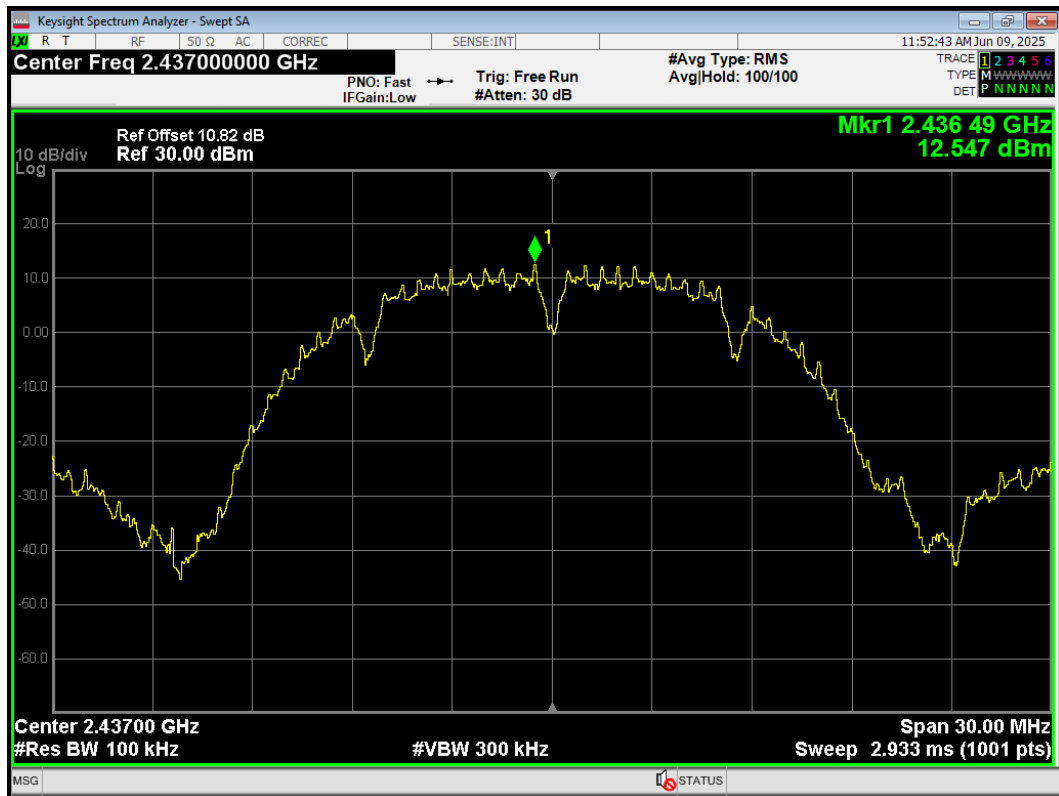
Tx. Spurious 802.11b 2417MHz Ref



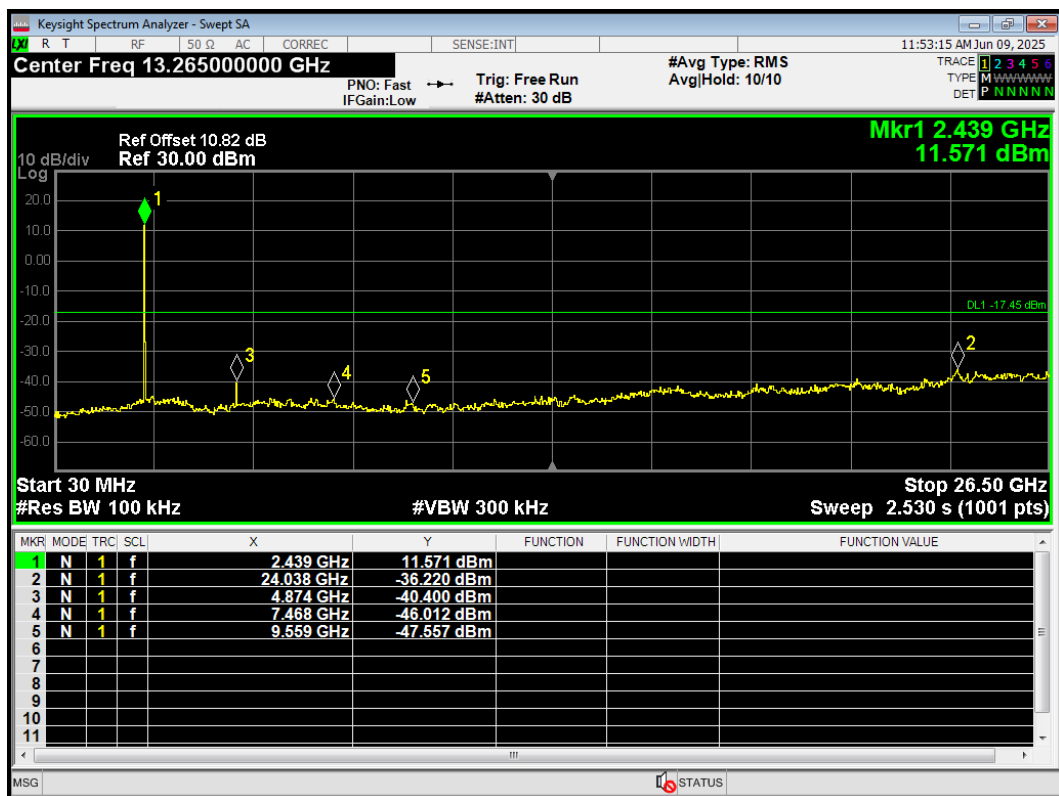
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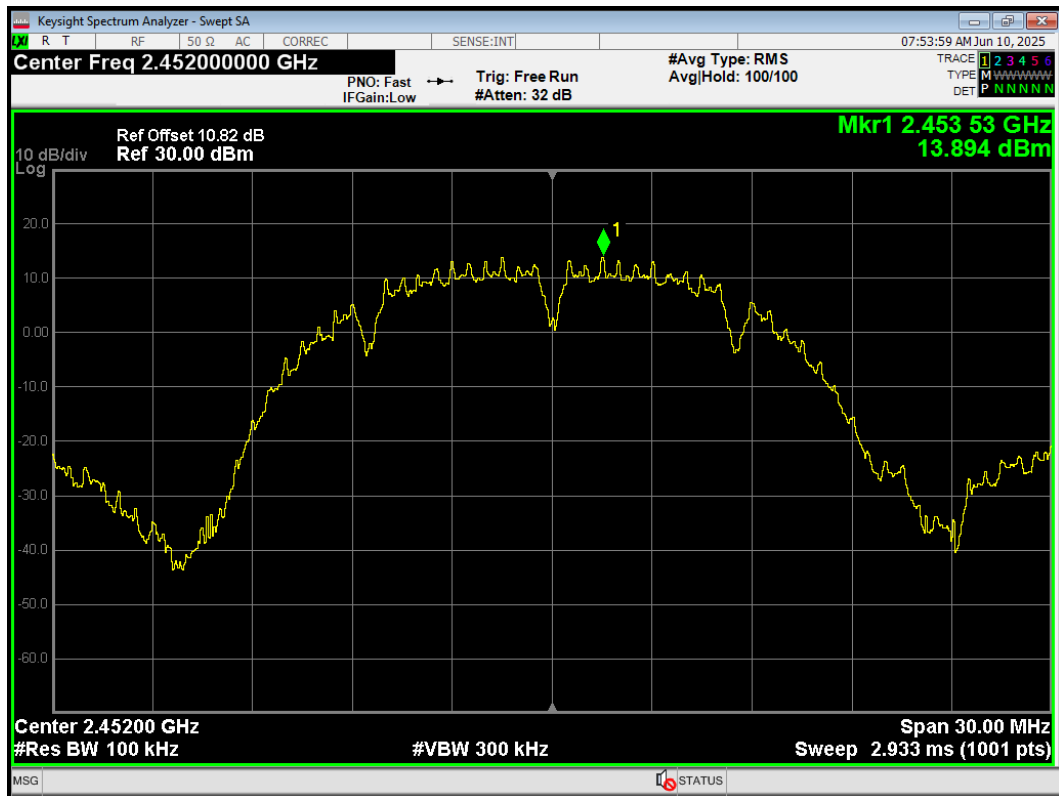
Tx. Spurious 802.11b 2437MHz Ref



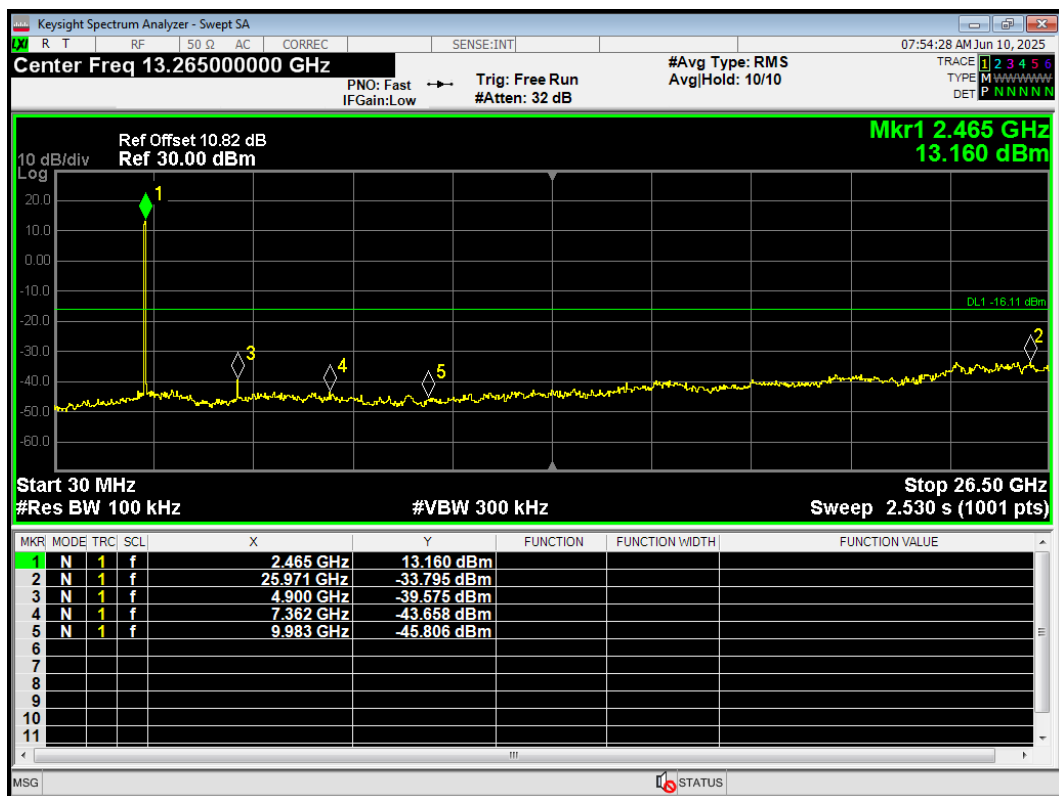
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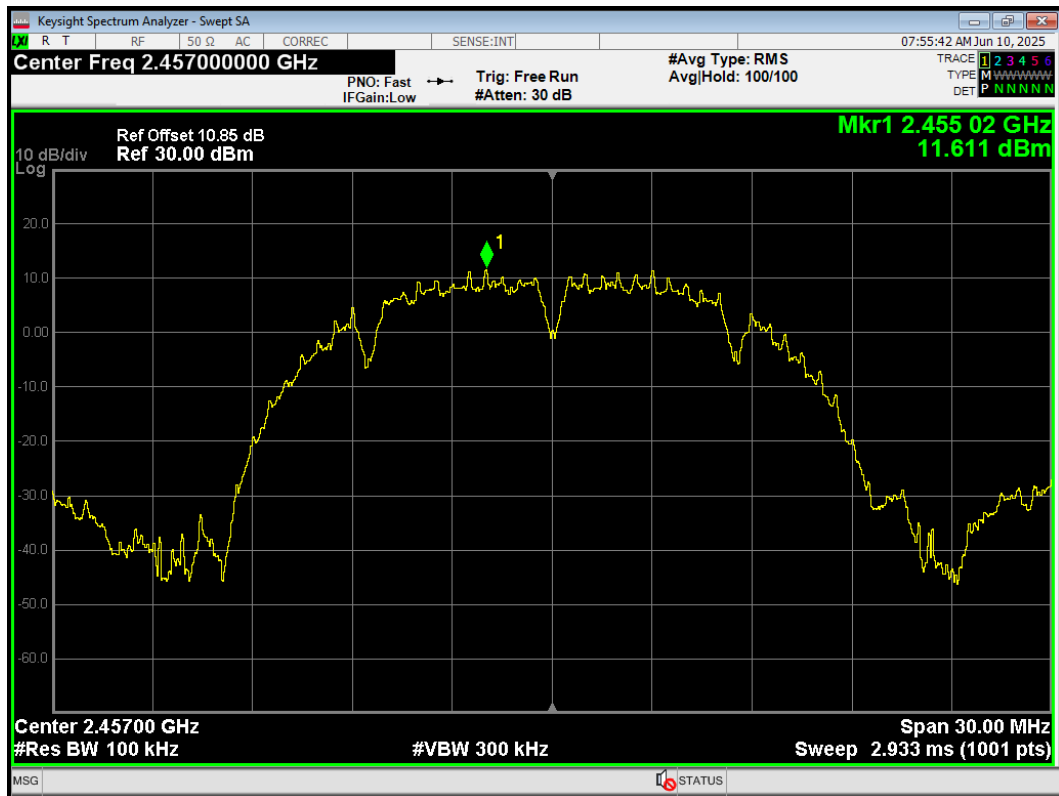
Tx. Spurious 802.11b 2452MHz Ref



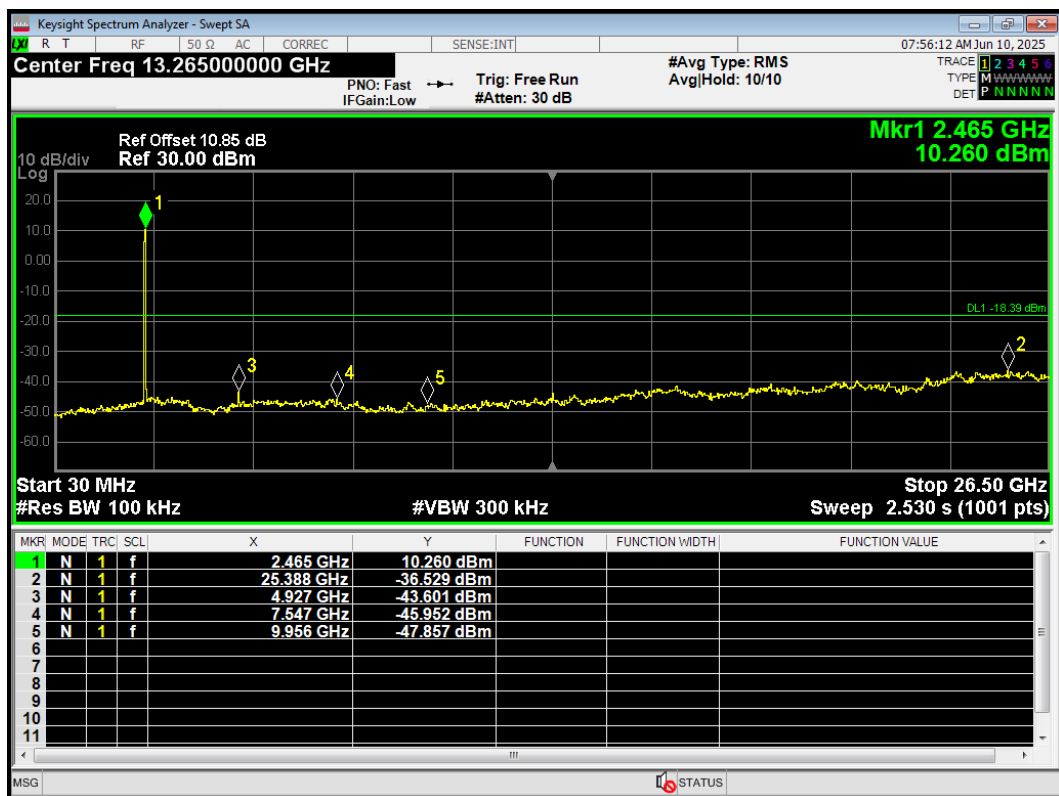
Tx. Spurious 802.11b 2452MHz Emission



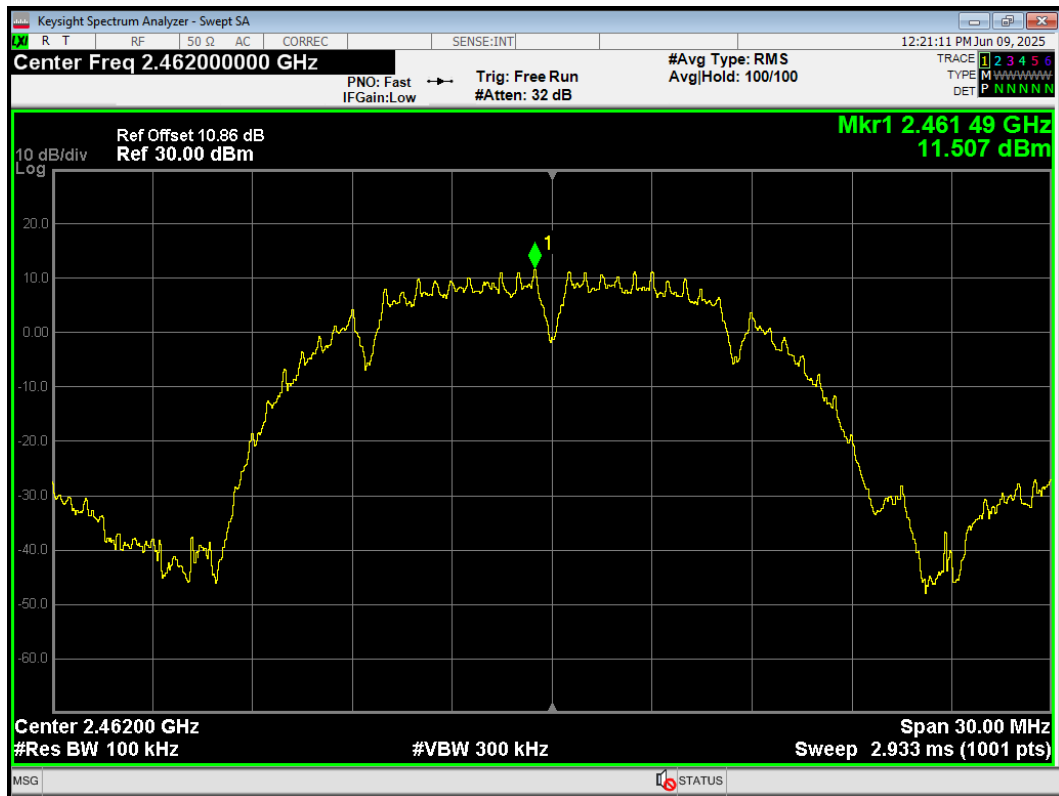
Tx. Spurious 802.11b 2457MHz Ref



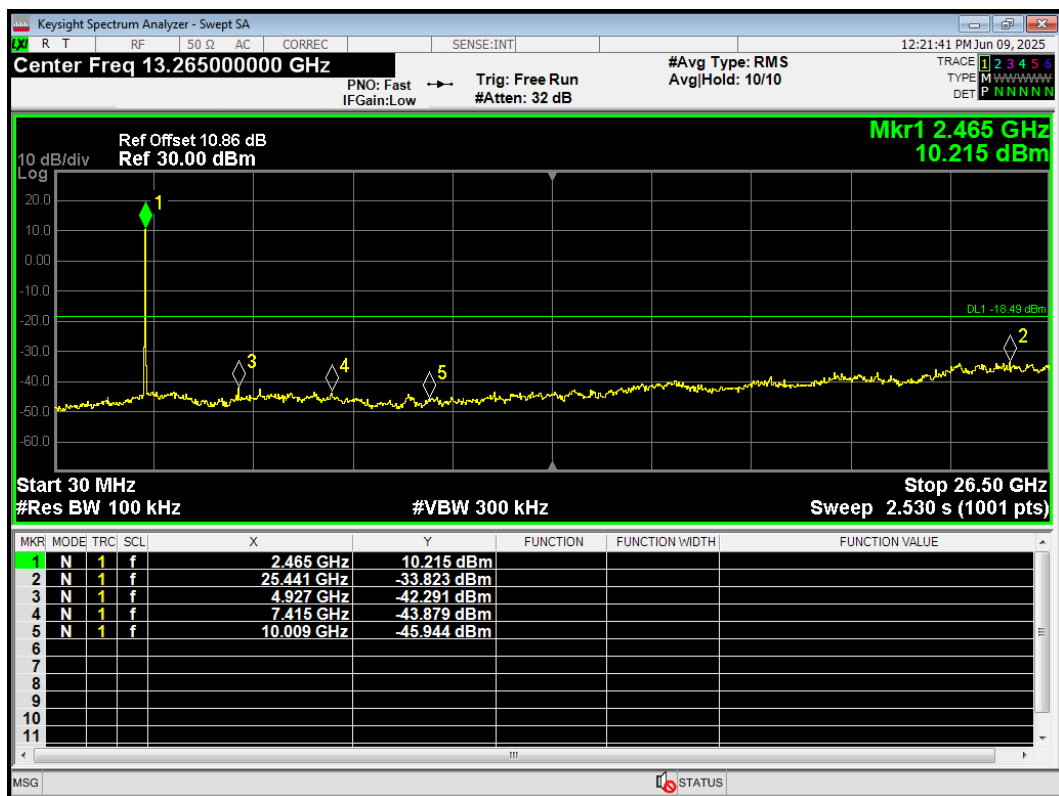
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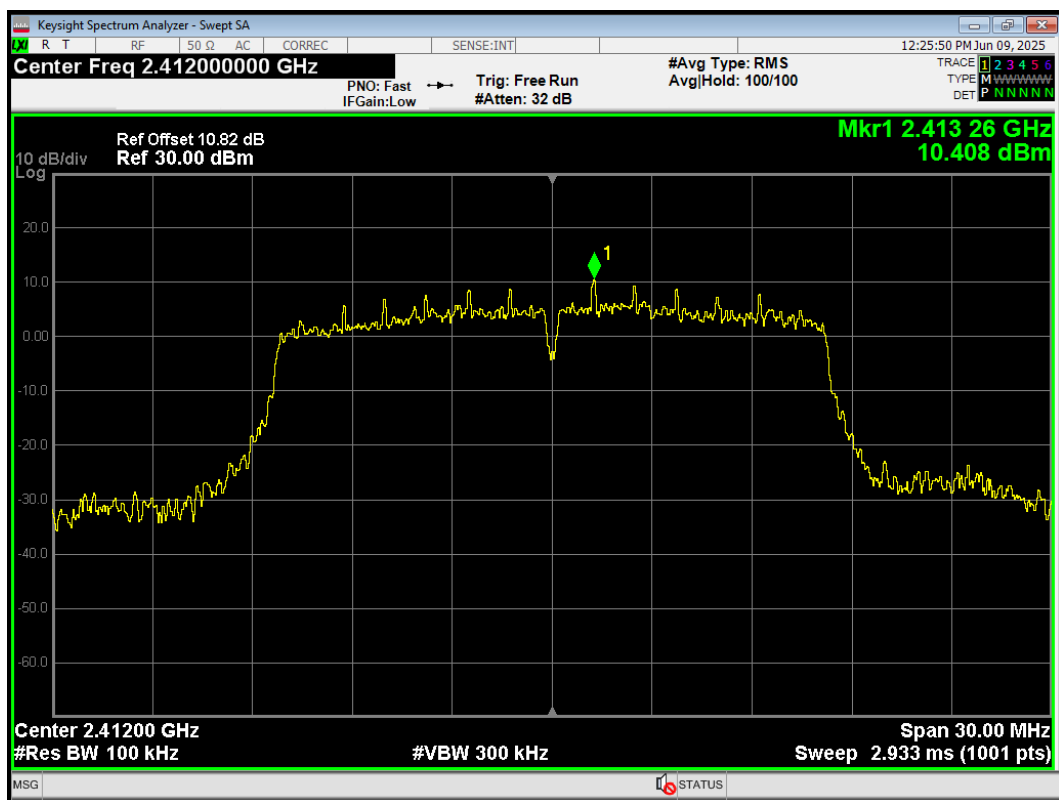
Tx. Spurious 802.11b 2462MHz Ref



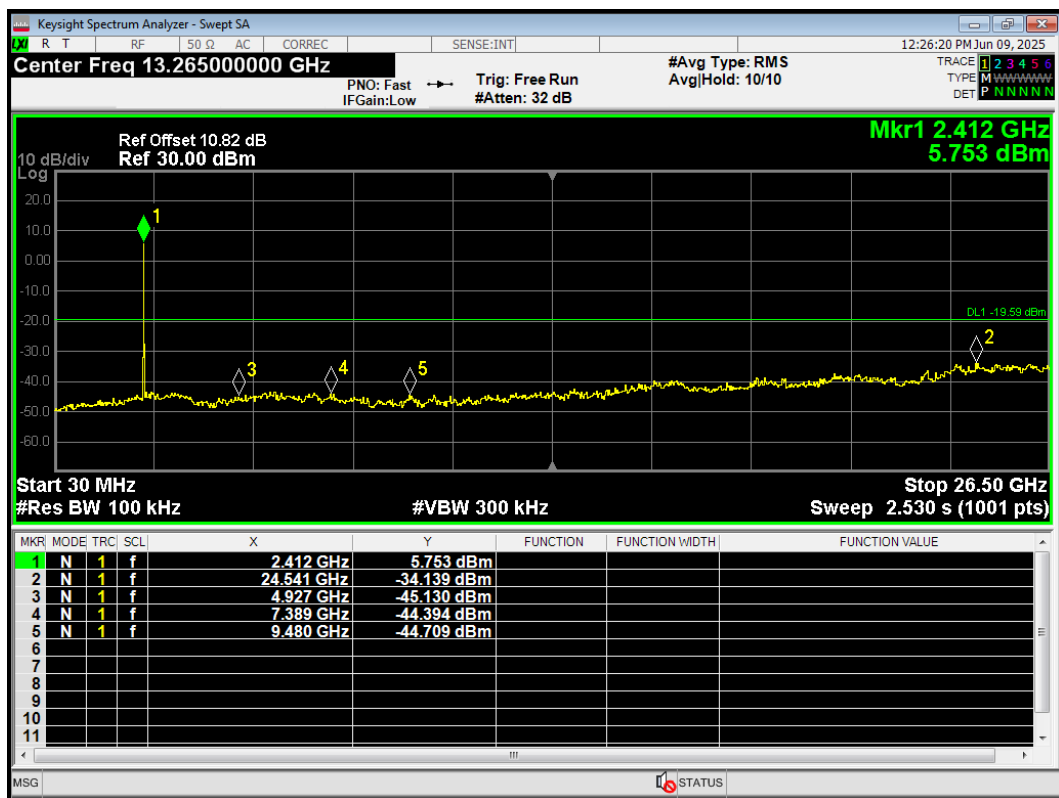
Tx. Spurious 802.11b 2462MHz Emission



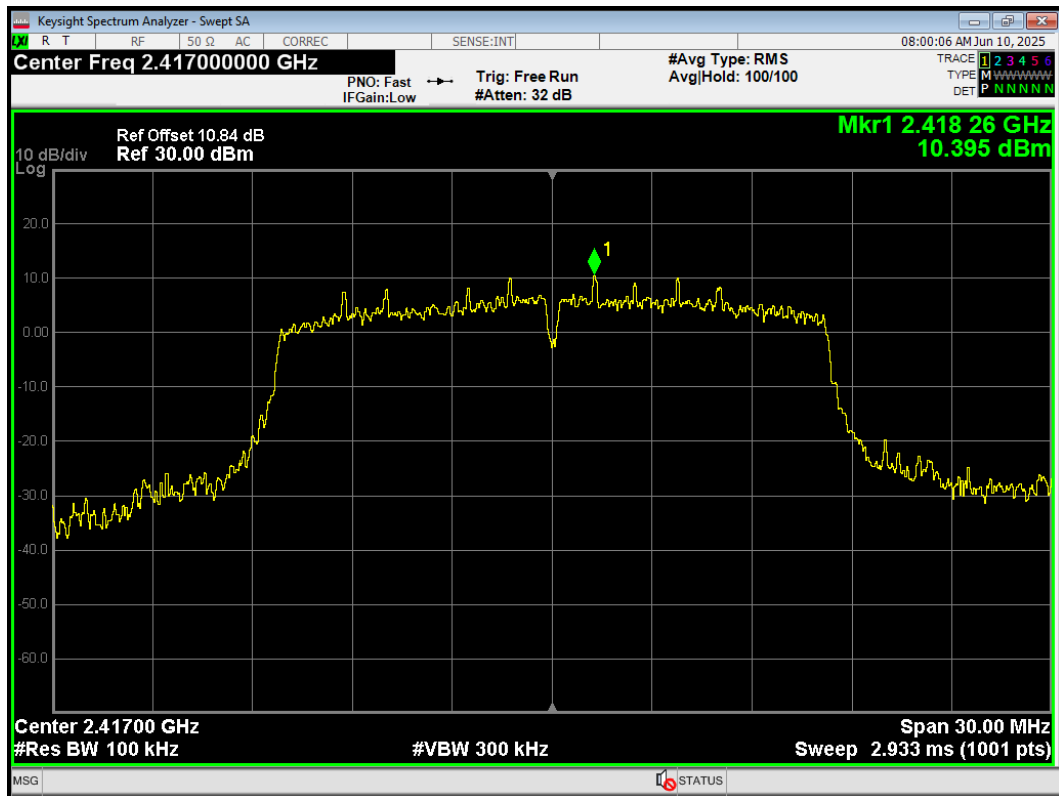
Tx. Spurious 802.11g 2412MHz Ref



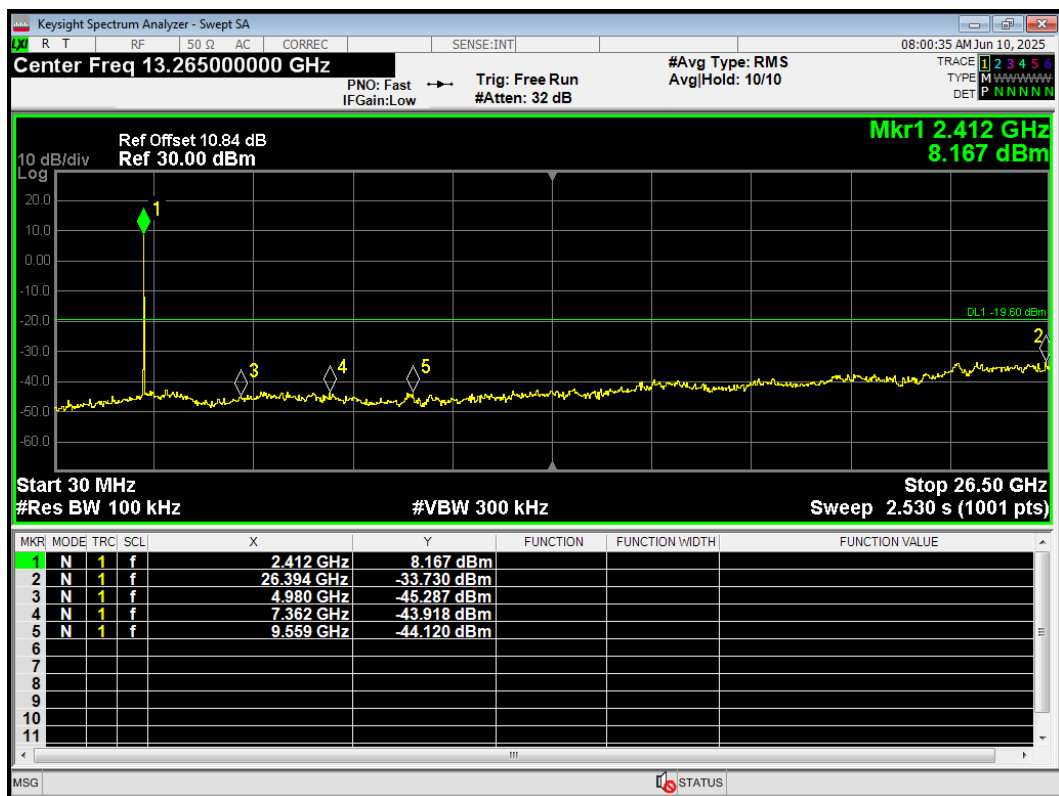
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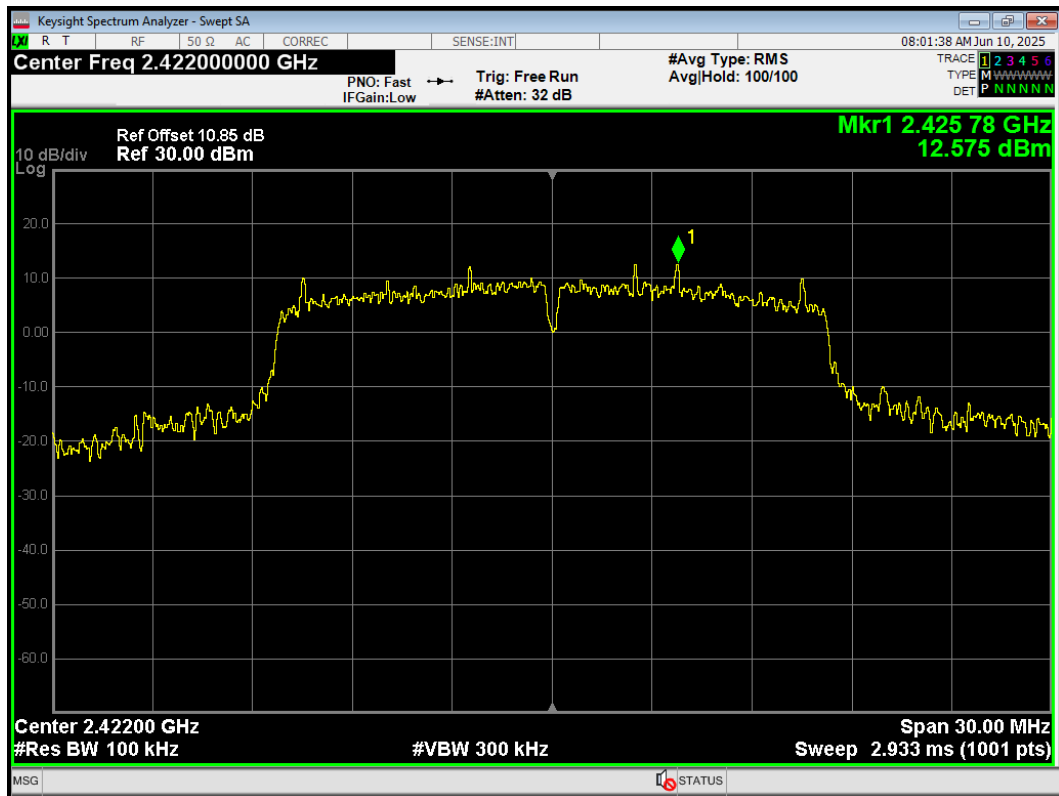
Tx. Spurious 802.11g 2417MHz Ref



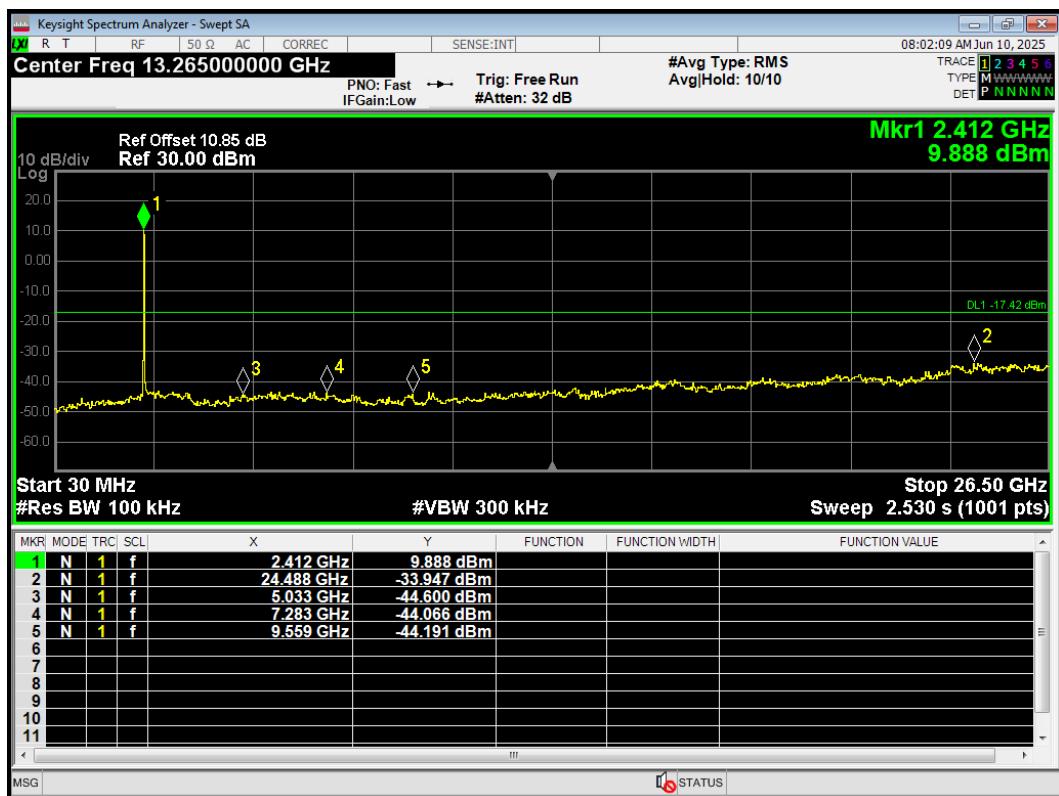
Tx. Spurious 802.11g 2417MHz Emission



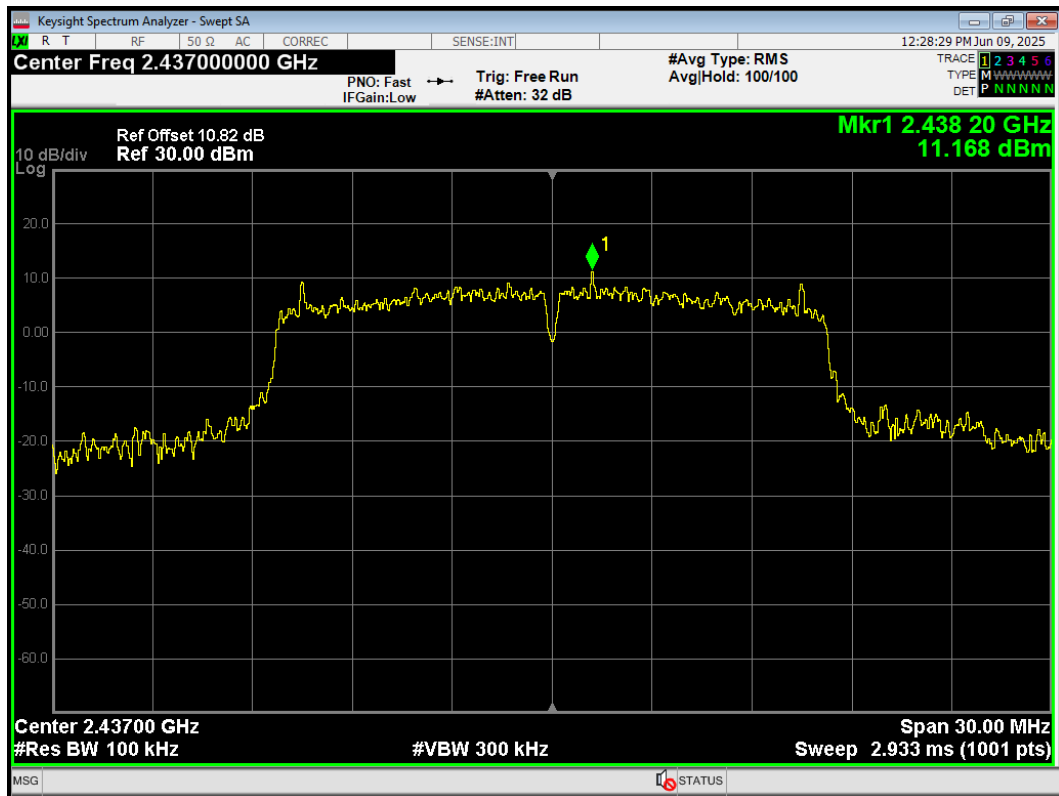
Tx. Spurious 802.11g 2422MHz Ref



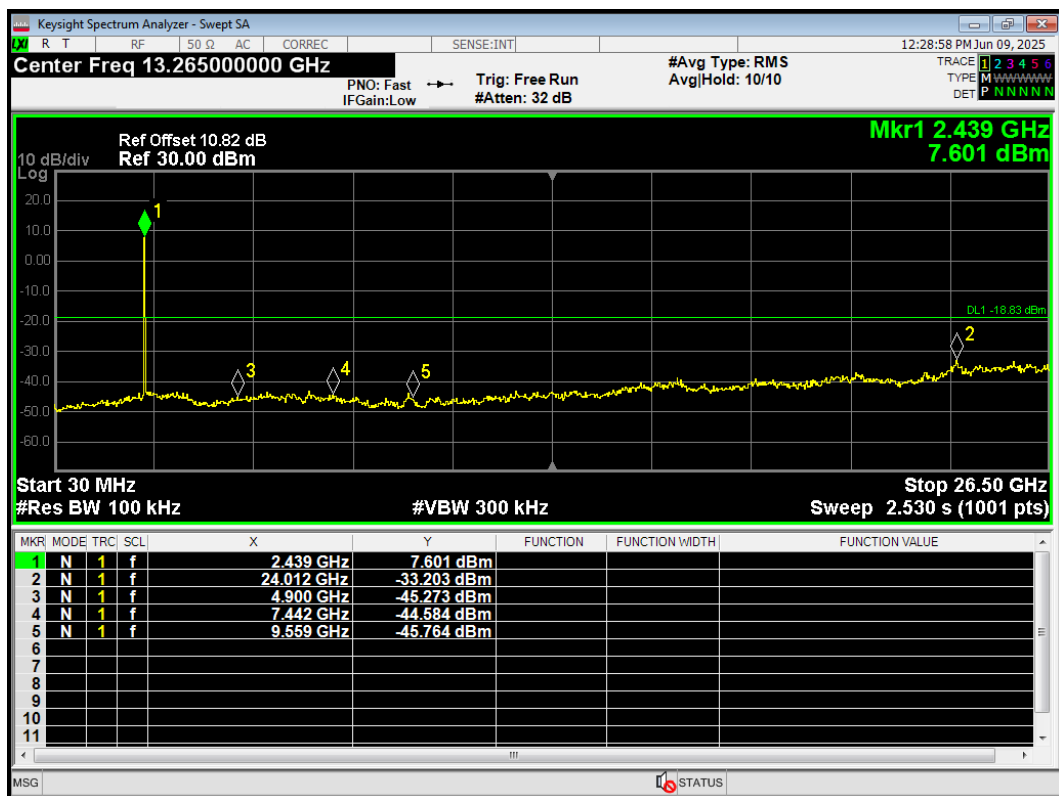
Tx. Spurious 802.11g 2422MHz Emission



Tx. Spurious 802.11g 2437MHz Ref



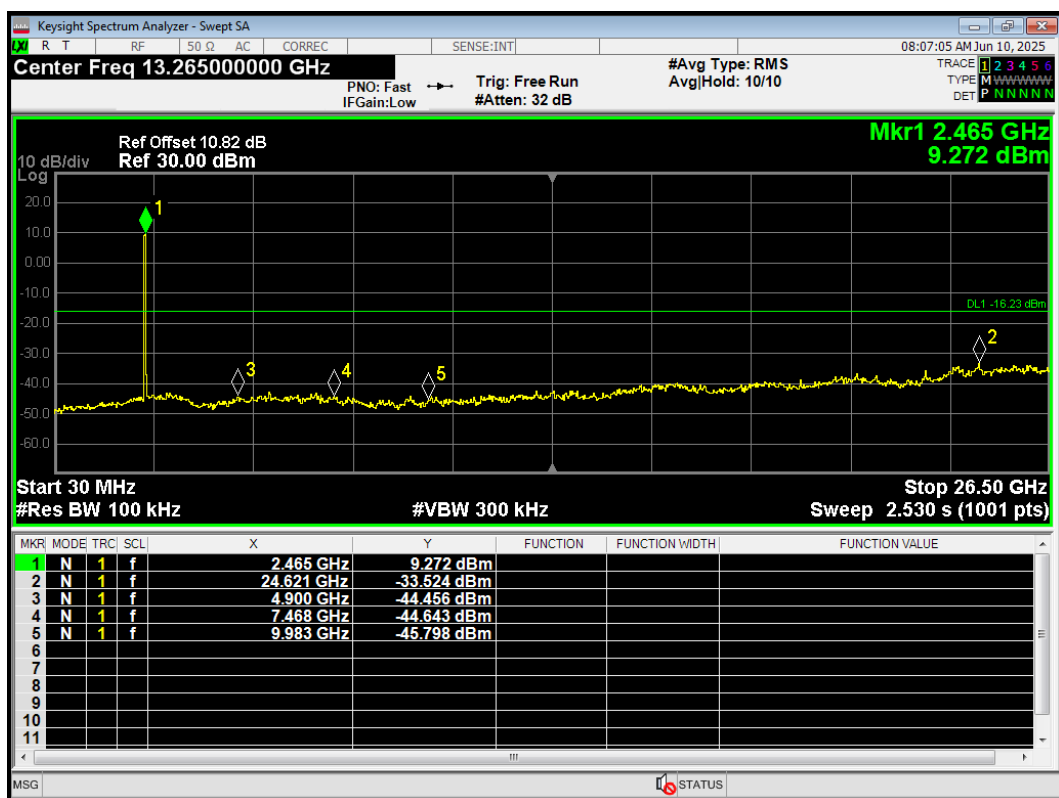
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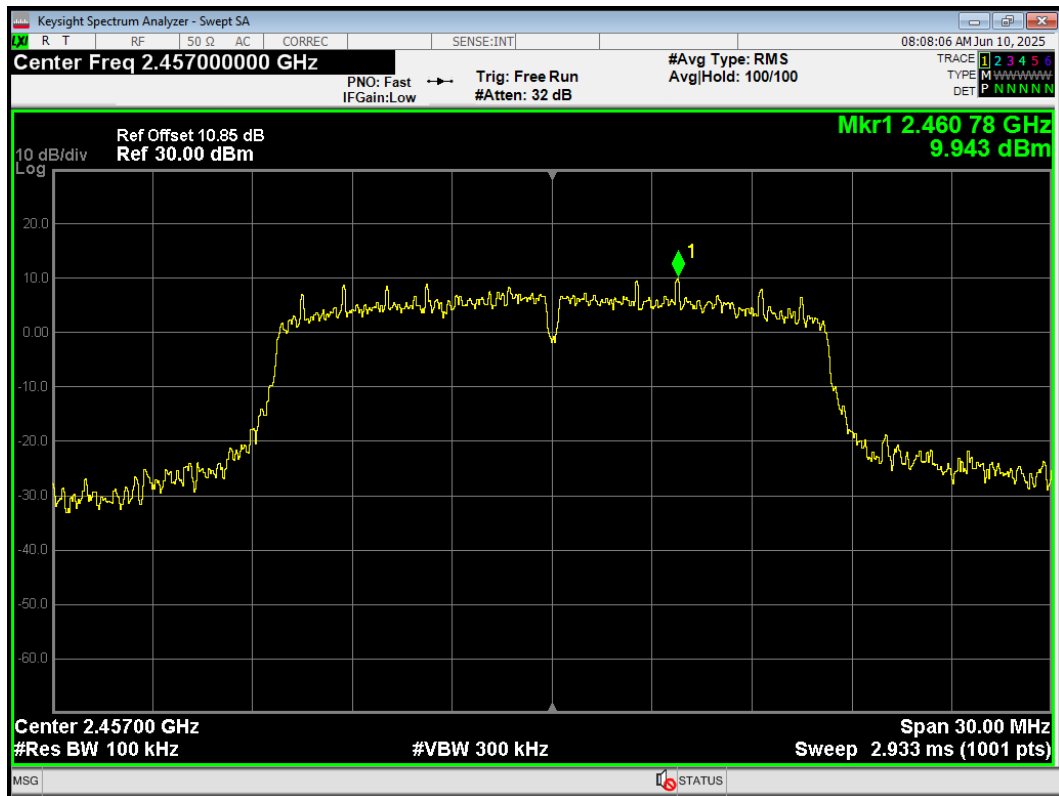
Tx. Spurious 802.11g 2452MHz Ref



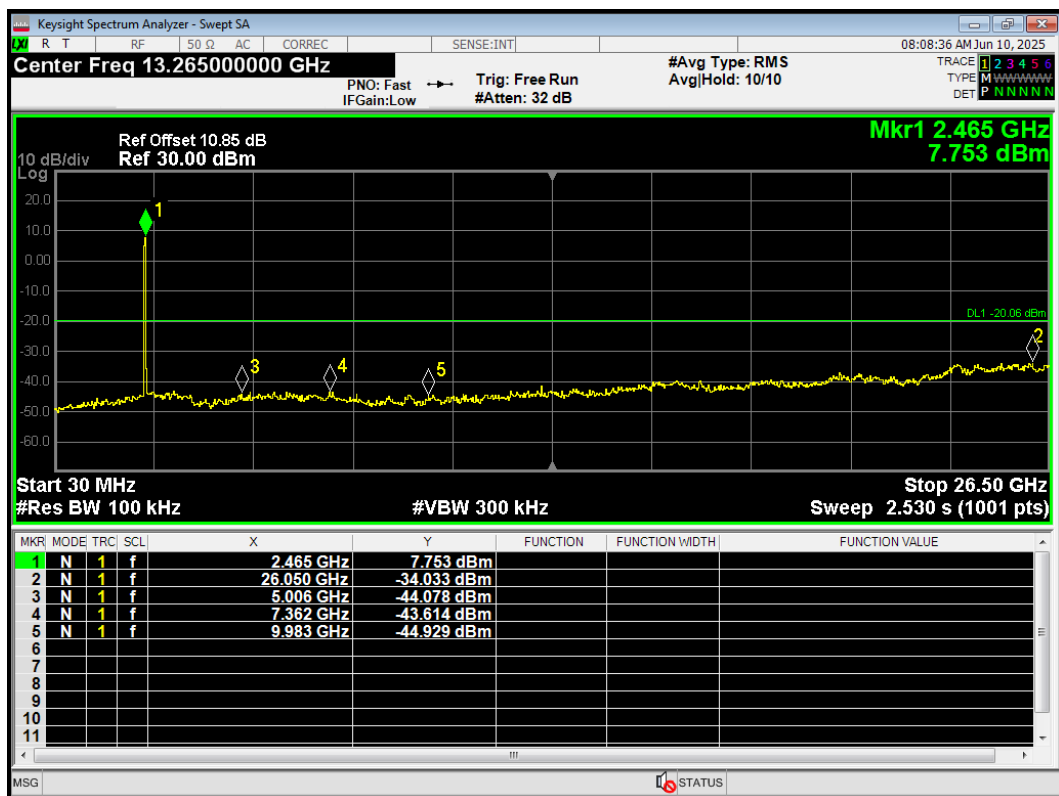
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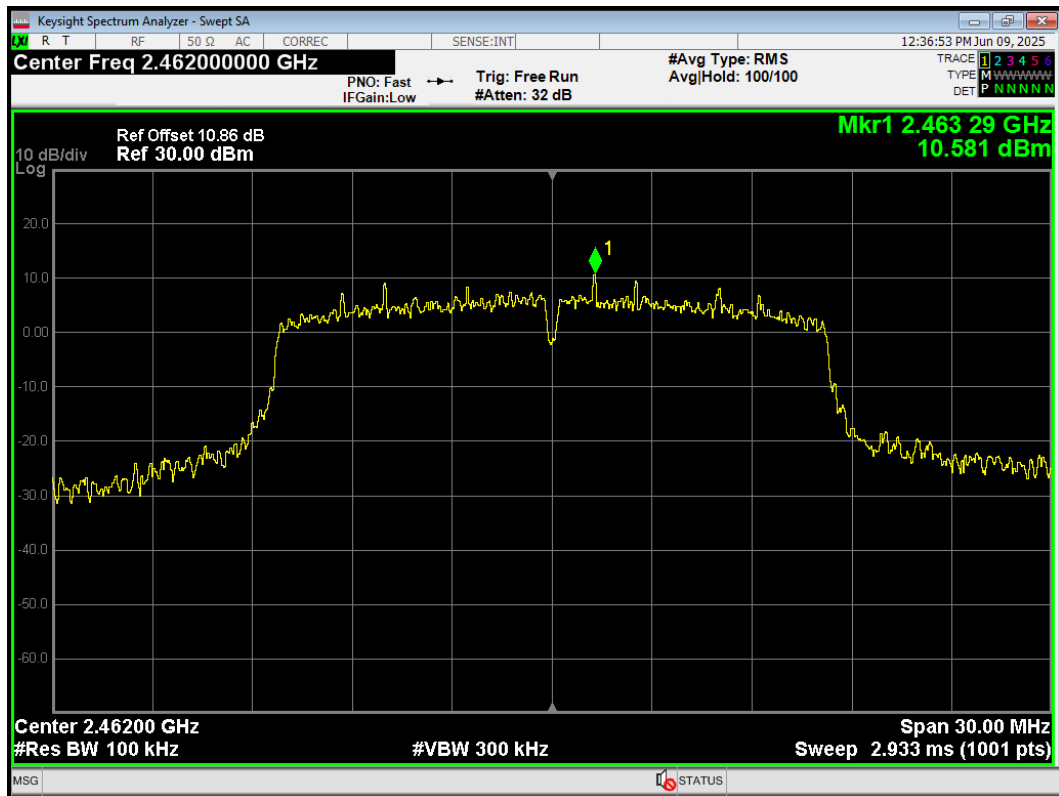
Tx. Spurious 802.11g 2457MHz Ref



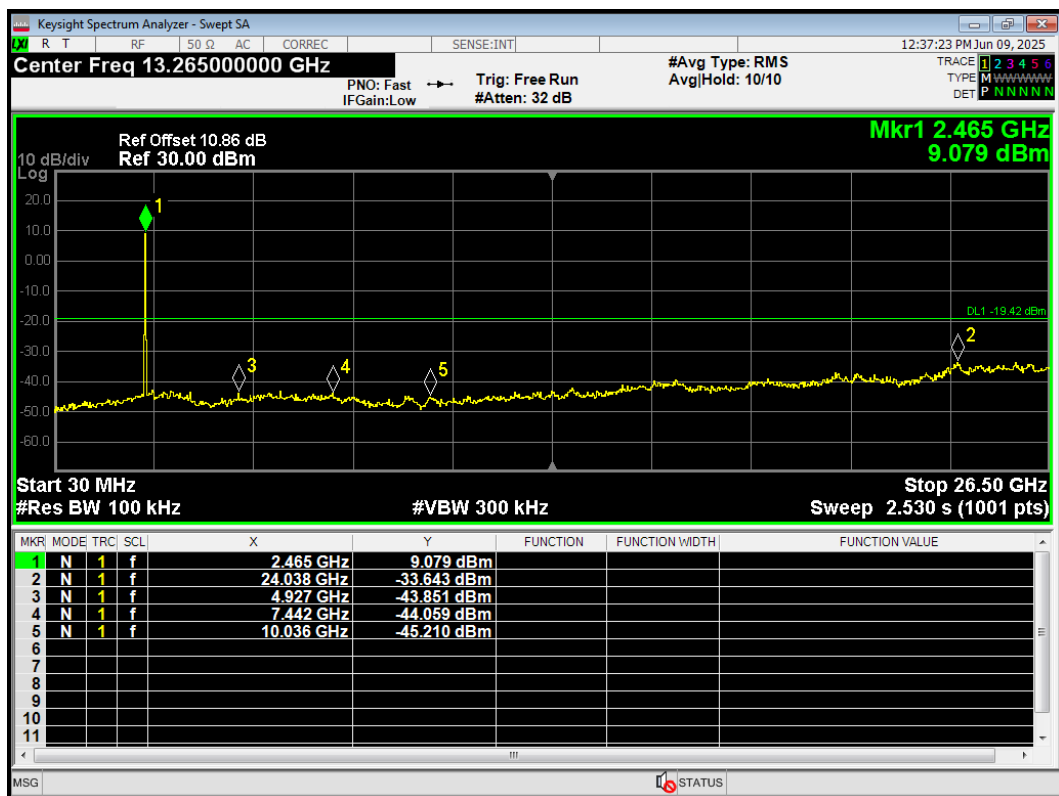
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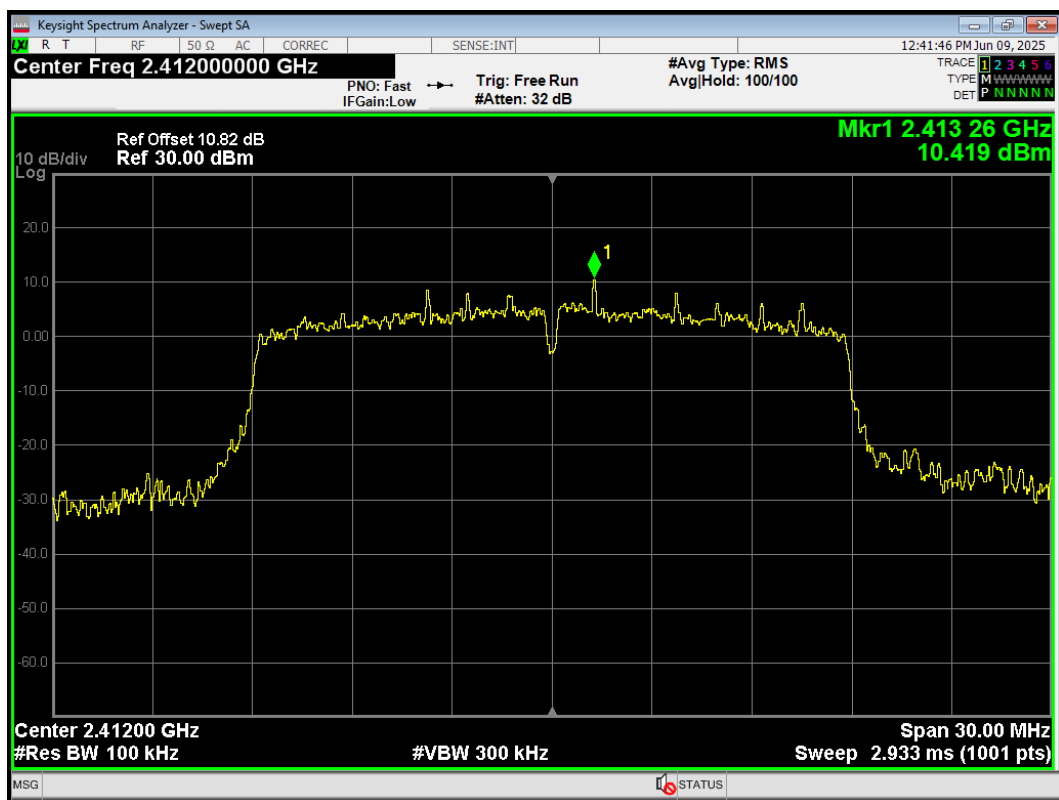
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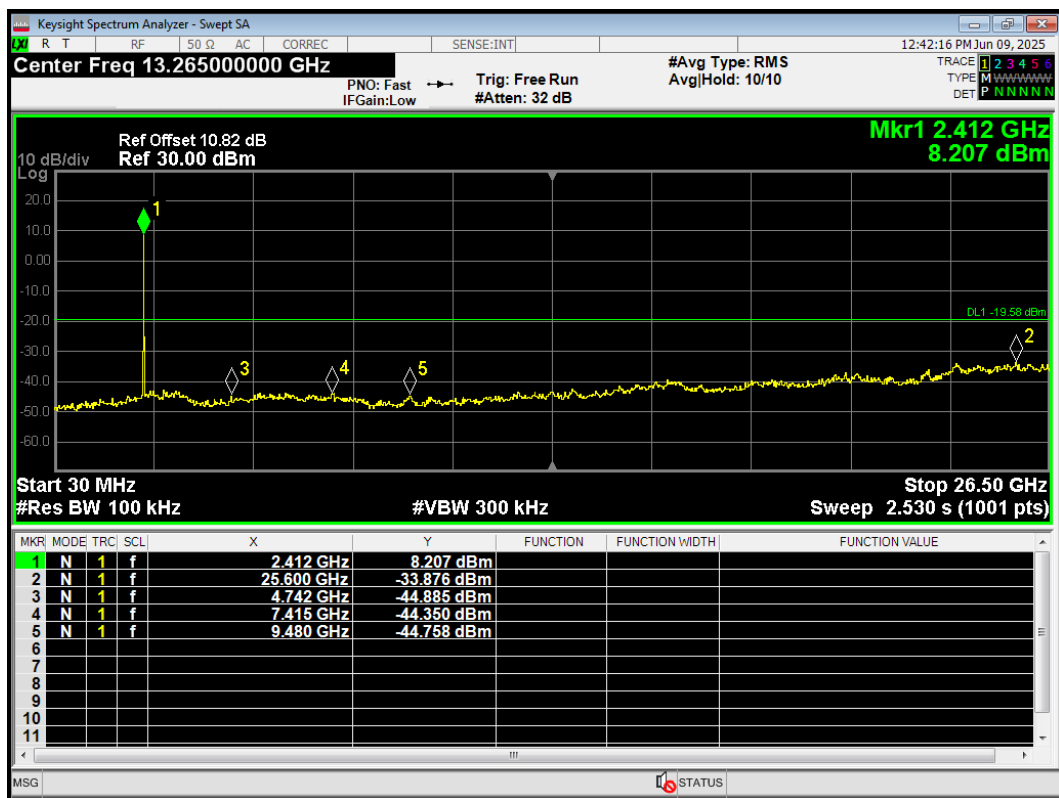
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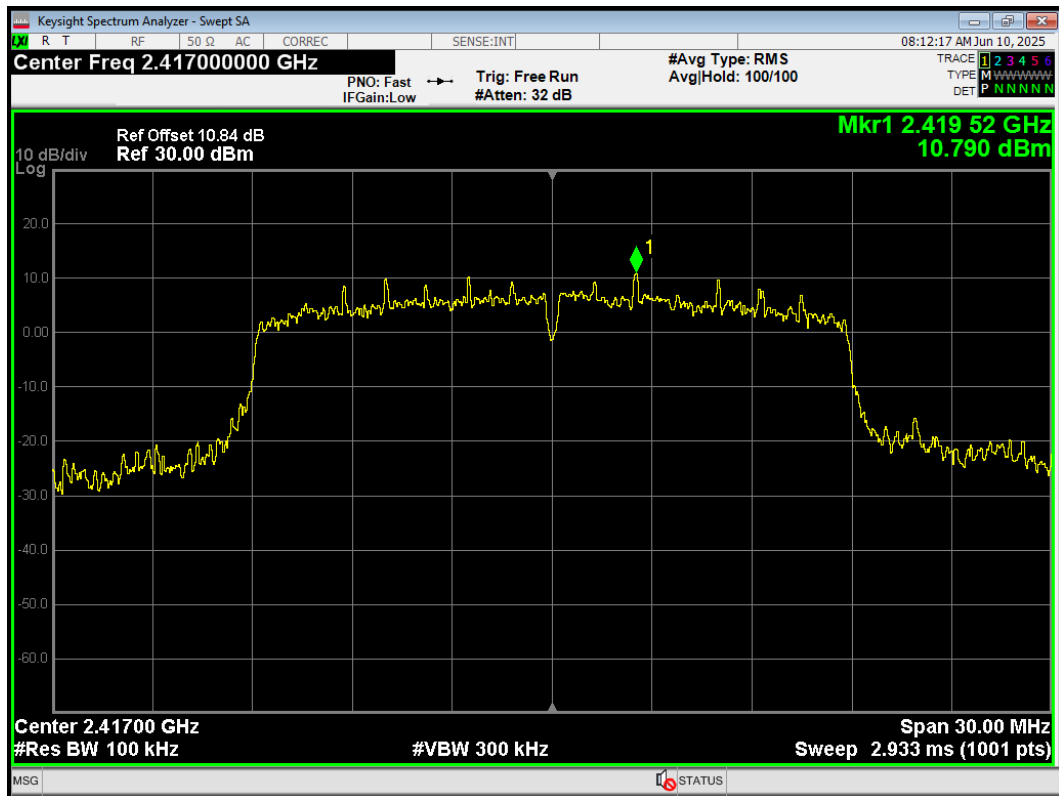
Tx. Spurious 802.11n(HT20) 2412MHz Ref



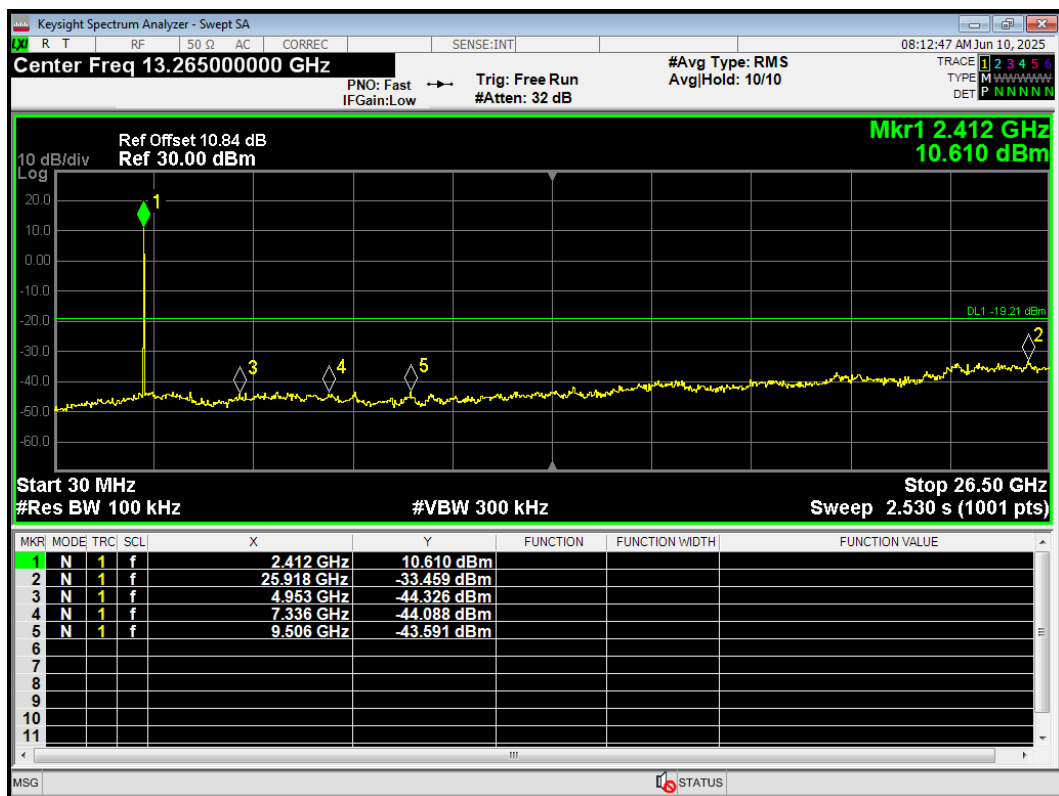
Tx. Spurious 802.11n(HT20) 2412MHz Emission



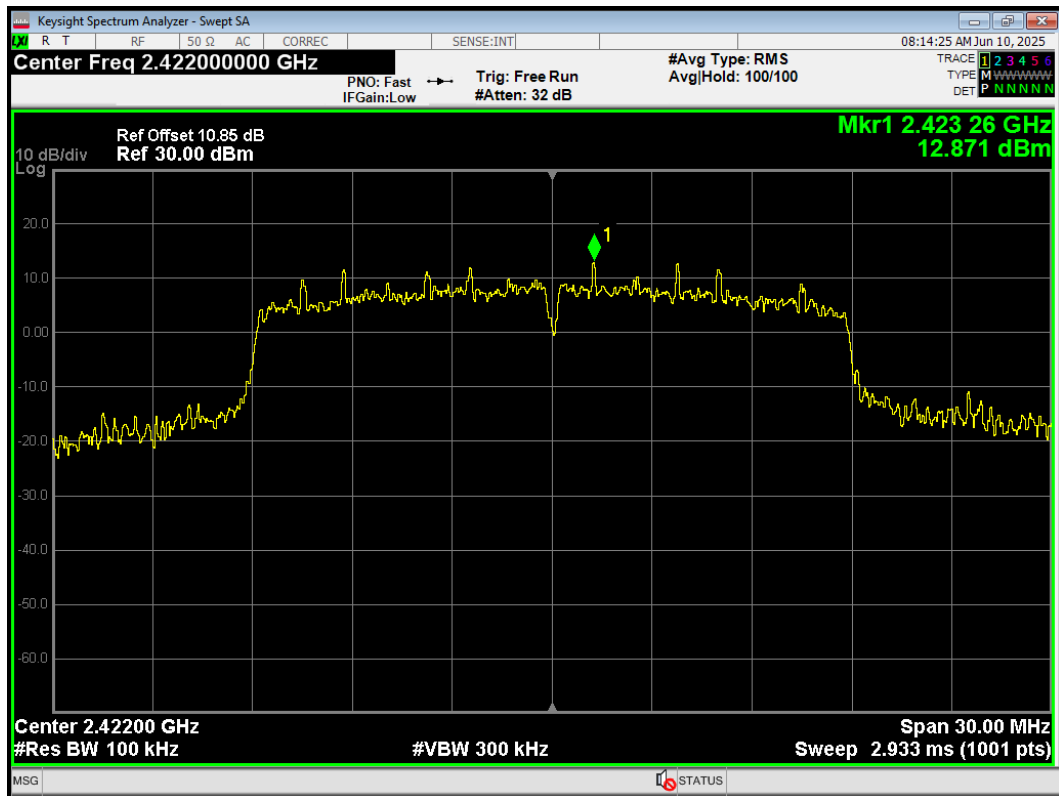
Tx. Spurious 802.11n(HT20) 2417MHz Ref



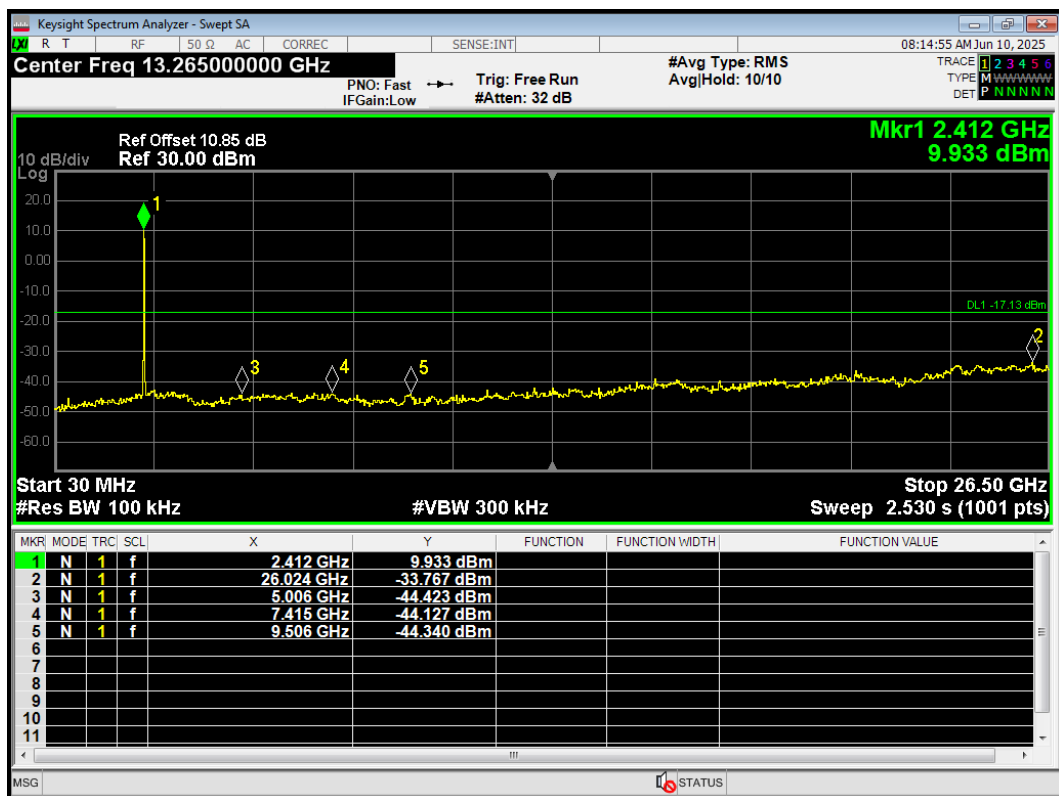
Tx. Spurious 802.11n(HT20) 2417MHz Emission



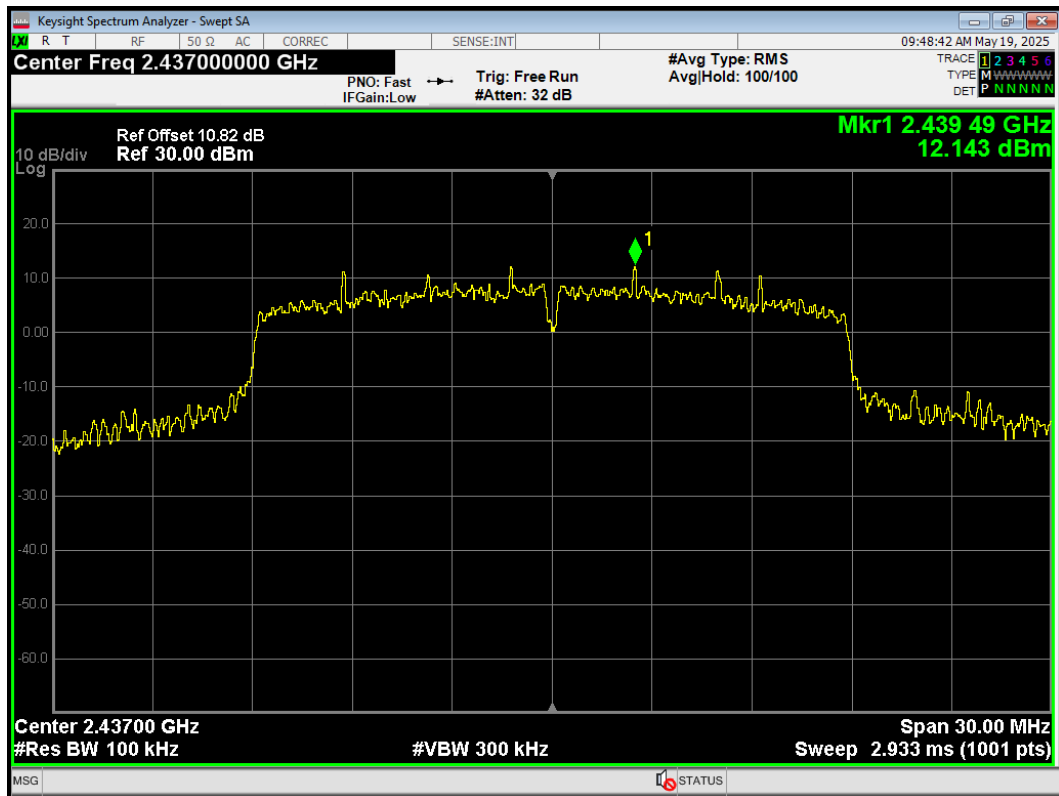
Tx. Spurious 802.11n(HT20) 2422MHz Ref



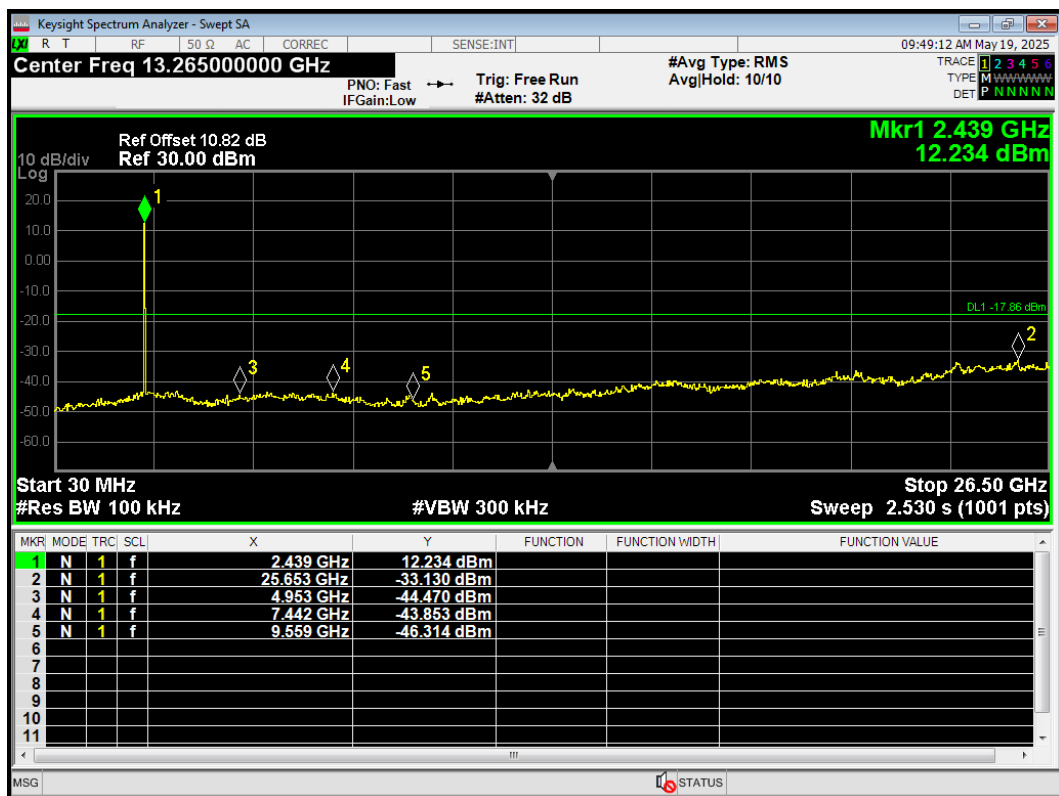
Tx. Spurious 802.11n(HT20) 2422MHz Emission



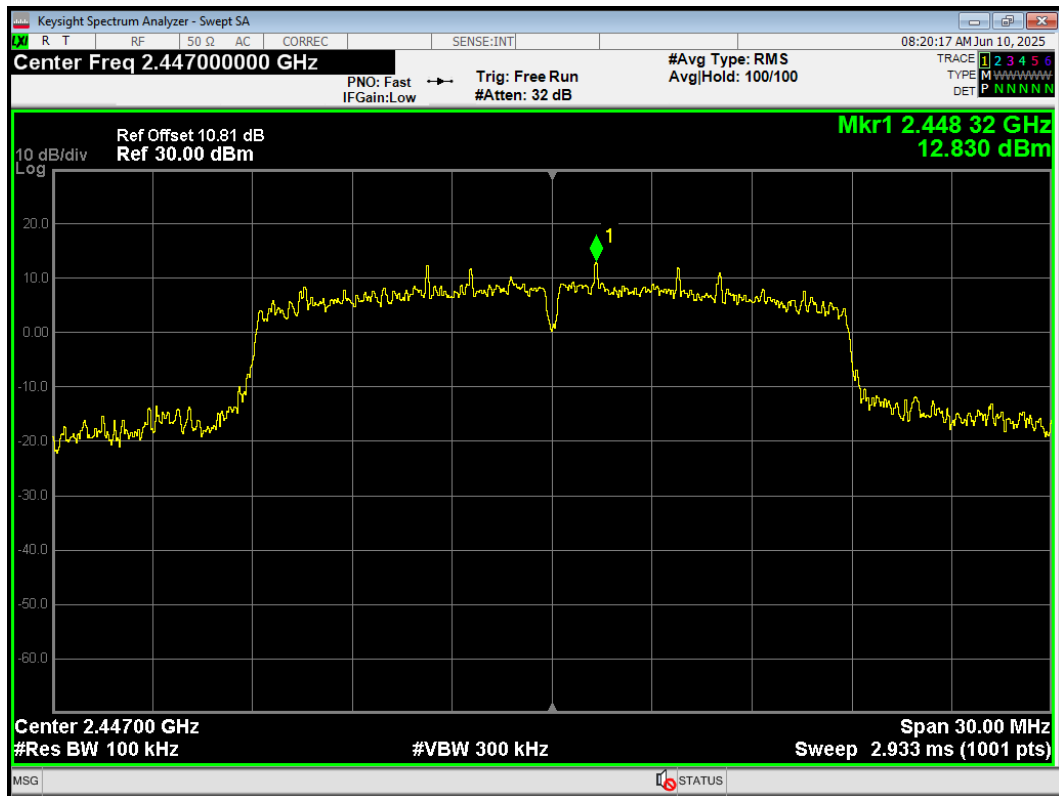
Tx. Spurious 802.11n(HT20) 2437MHz Ref



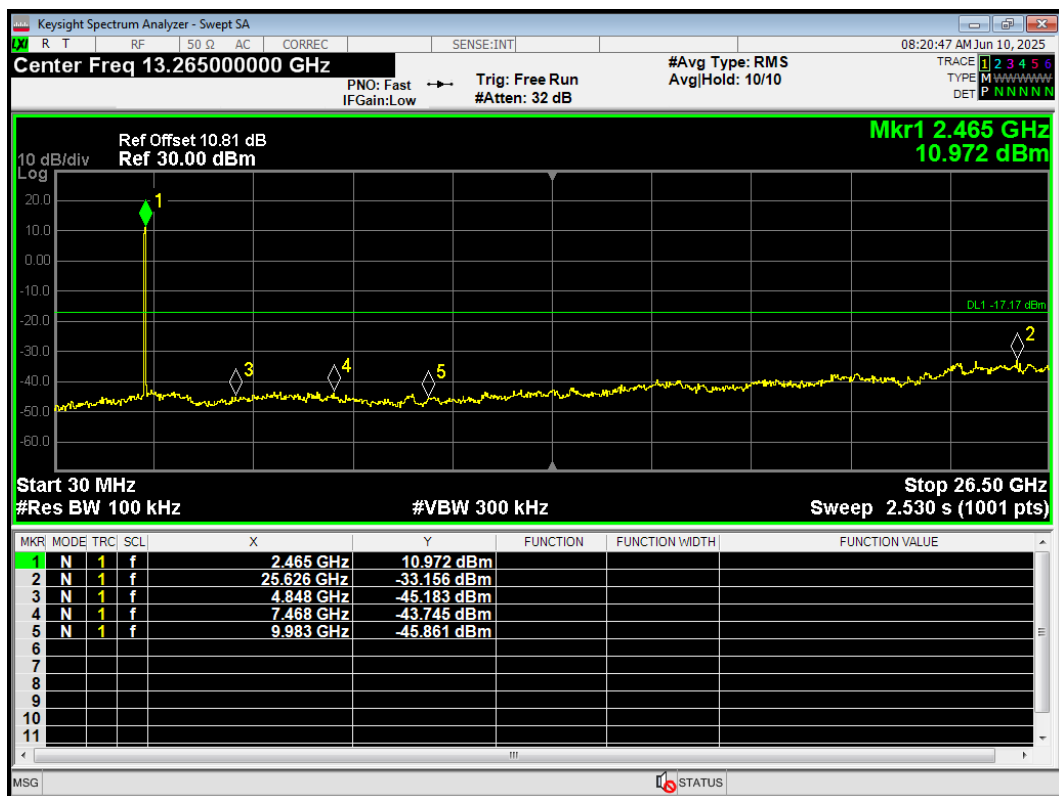
Tx. Spurious 802.11n(HT20) 2437MHz Emission



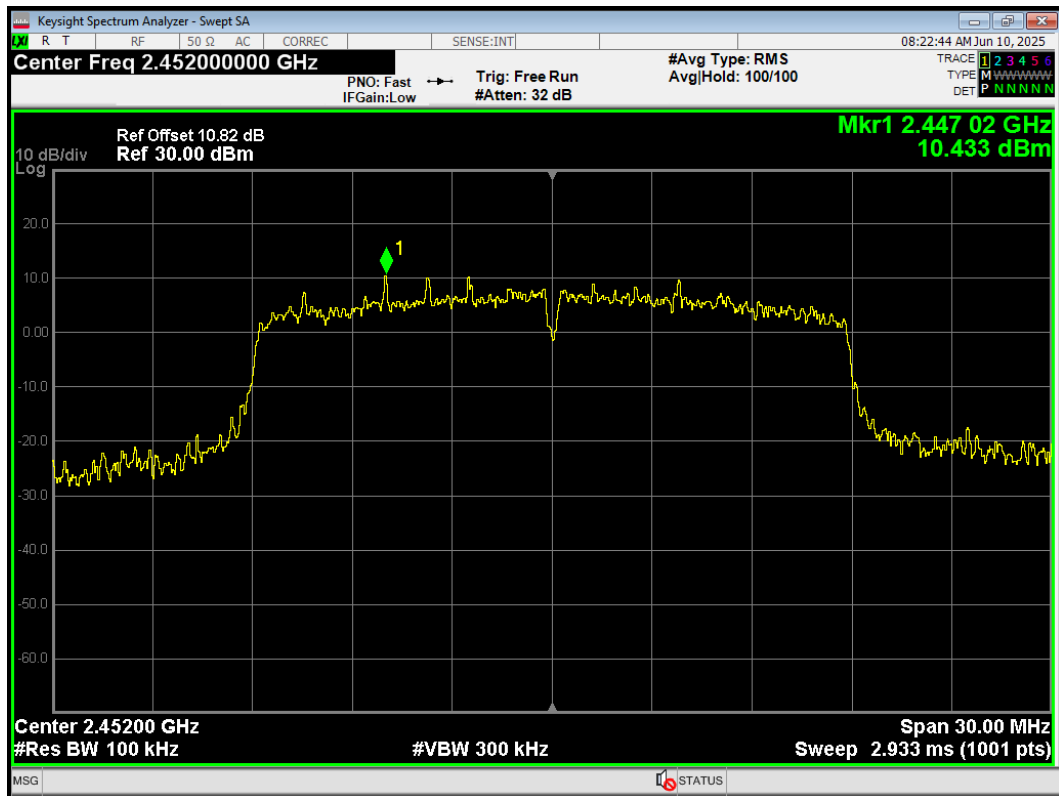
Tx. Spurious 802.11n(HT20) 2447MHz Ref



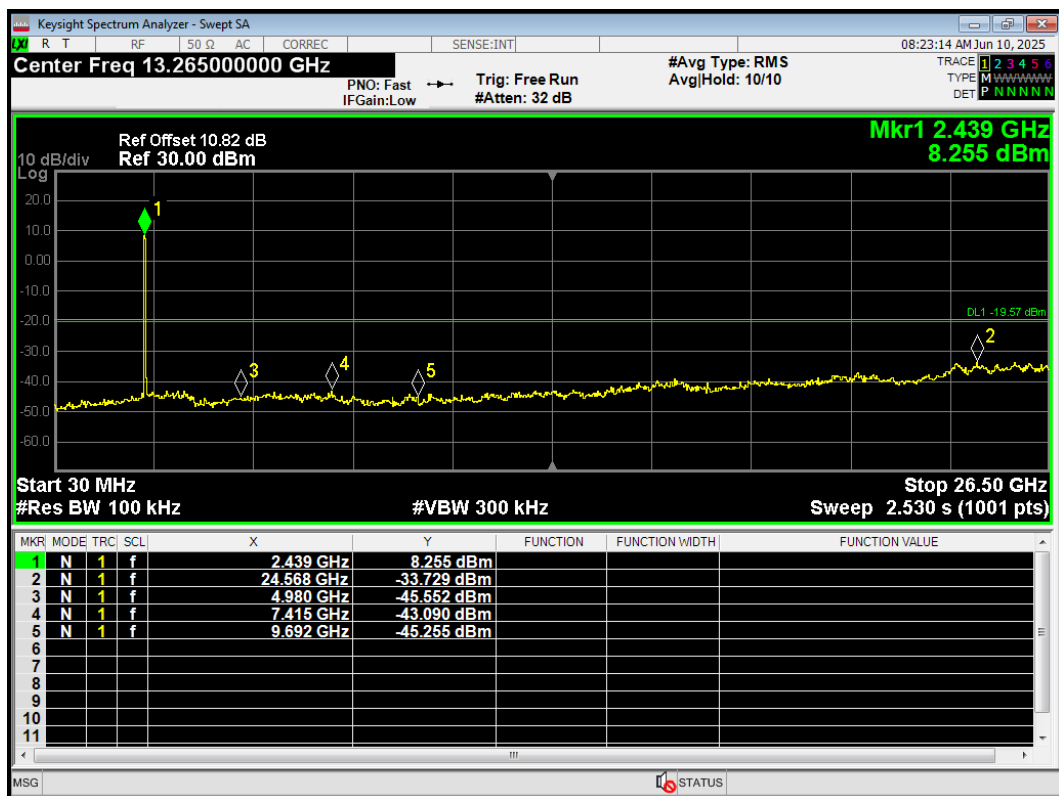
Tx. Spurious 802.11n(HT20) 2447MHz Emission



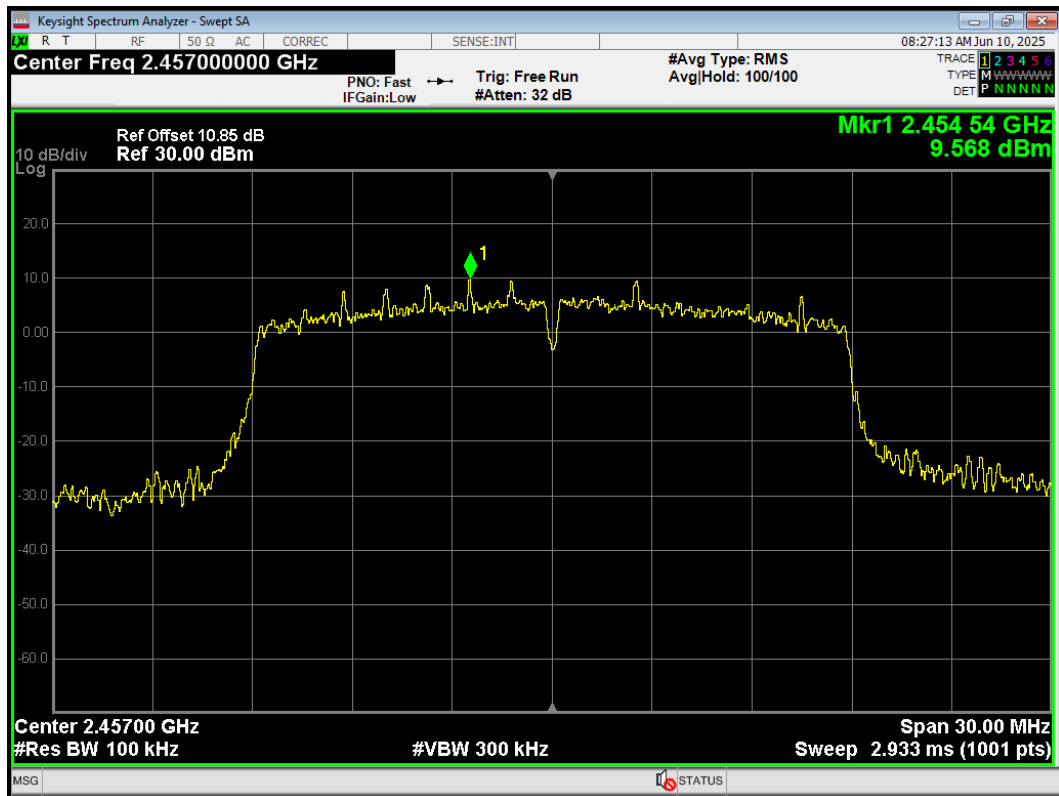
Tx. Spurious 802.11n(HT20) 2452MHz Ref



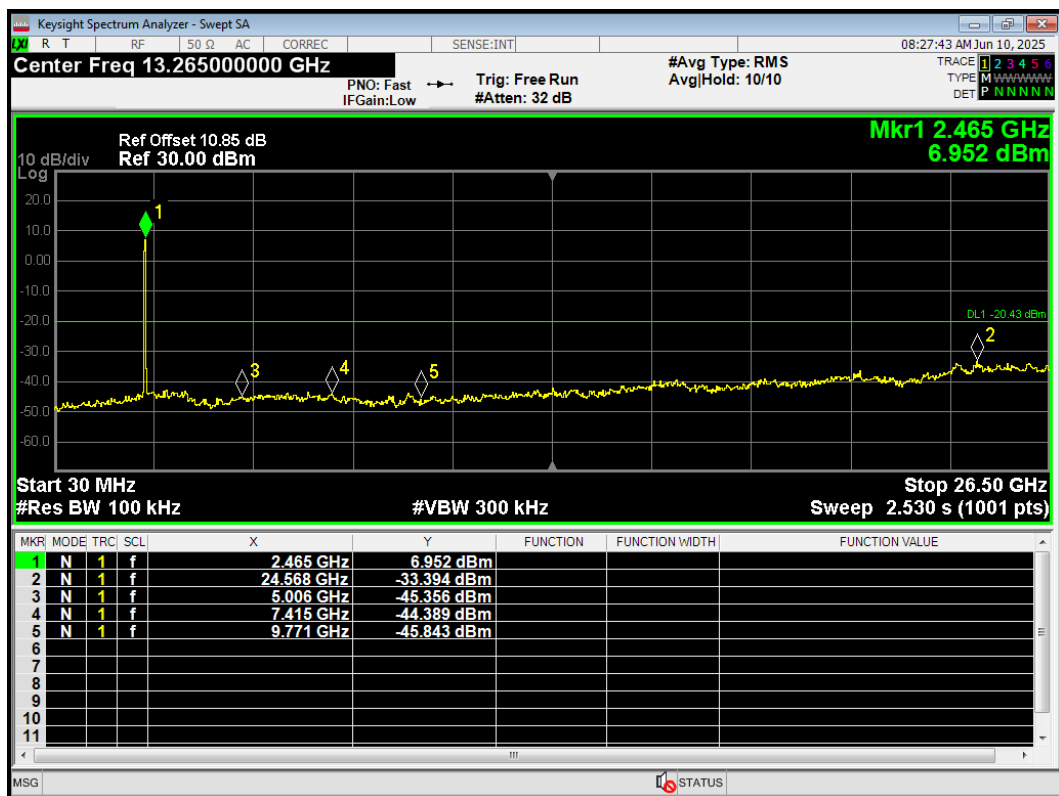
Tx. Spurious 802.11n(HT20) 2452MHz Emission



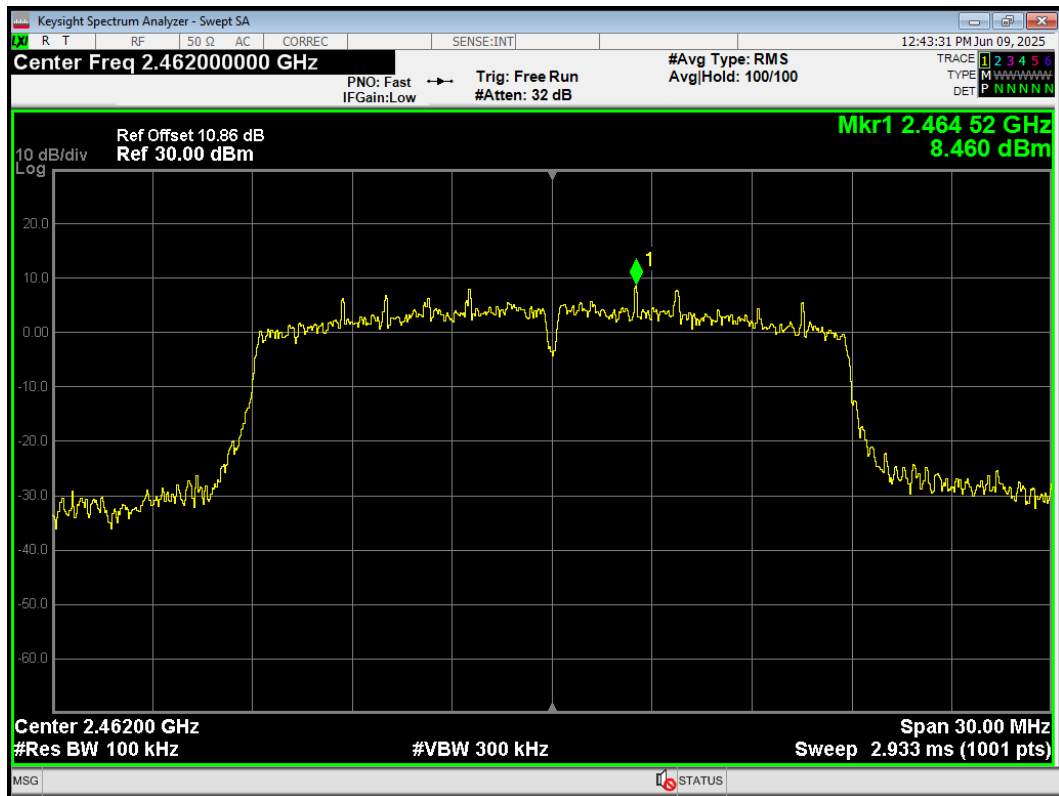
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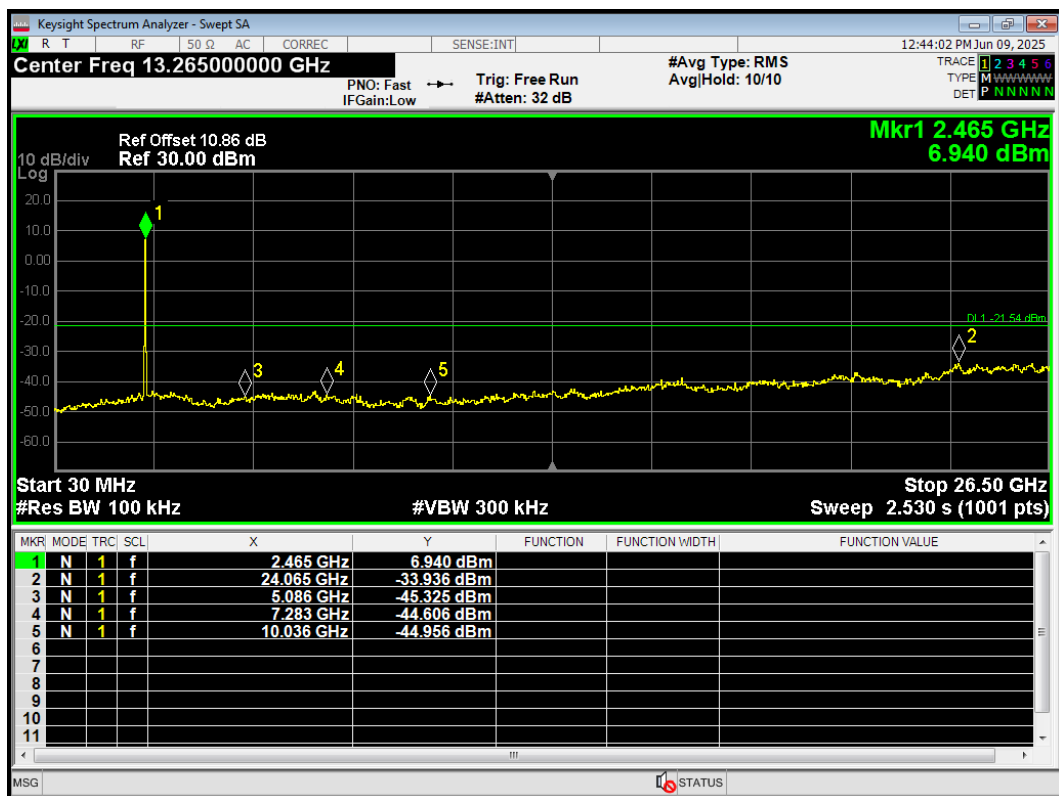
Tx. Spurious 802.11n(HT20) 2457MHz Emission



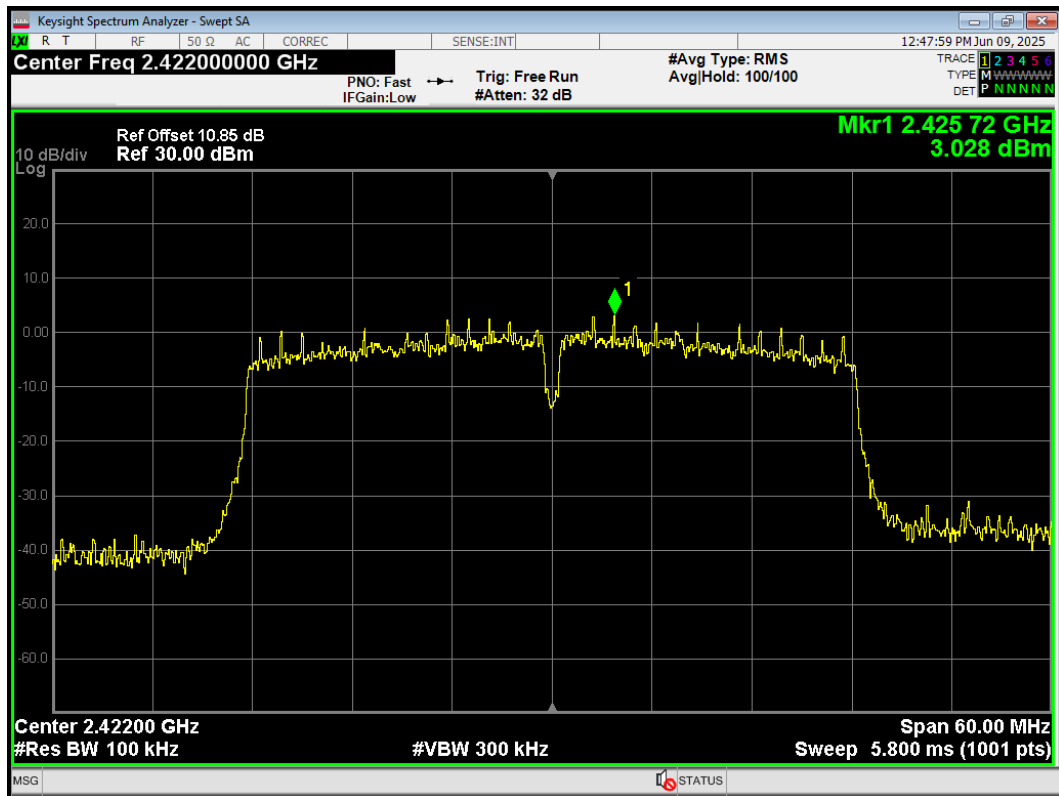
Tx. Spurious 802.11n(HT20) 2462MHz Ref



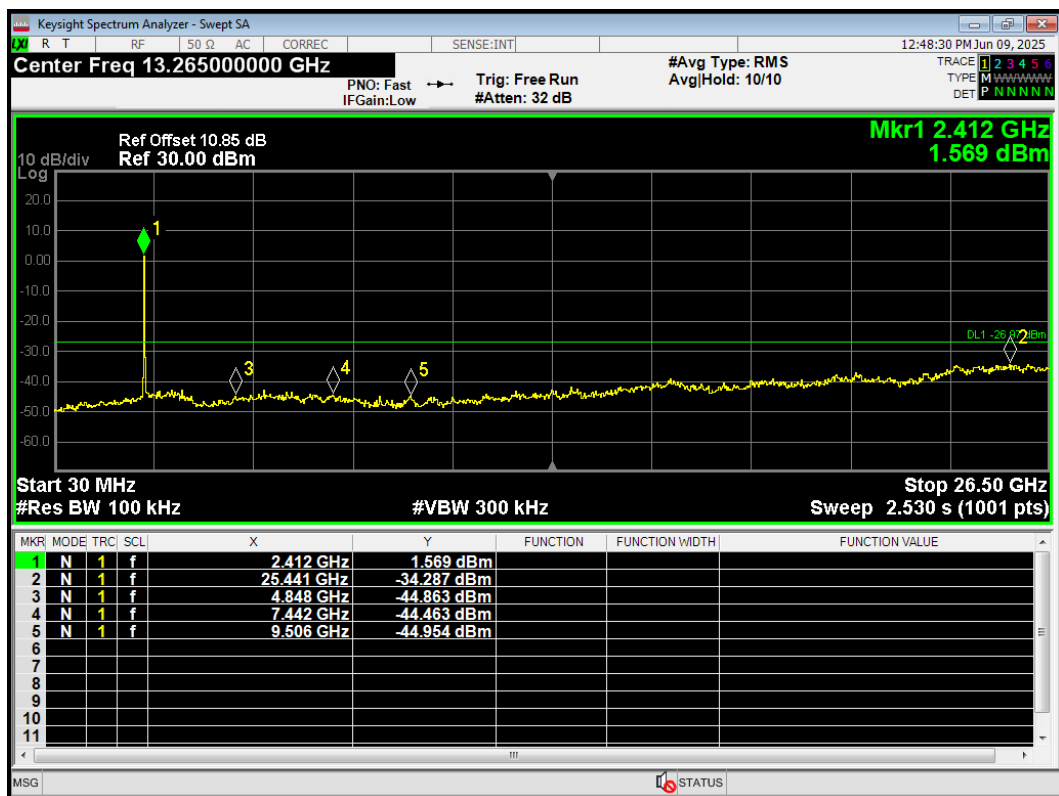
Tx. Spurious 802.11n(HT20) 2462MHz Emission



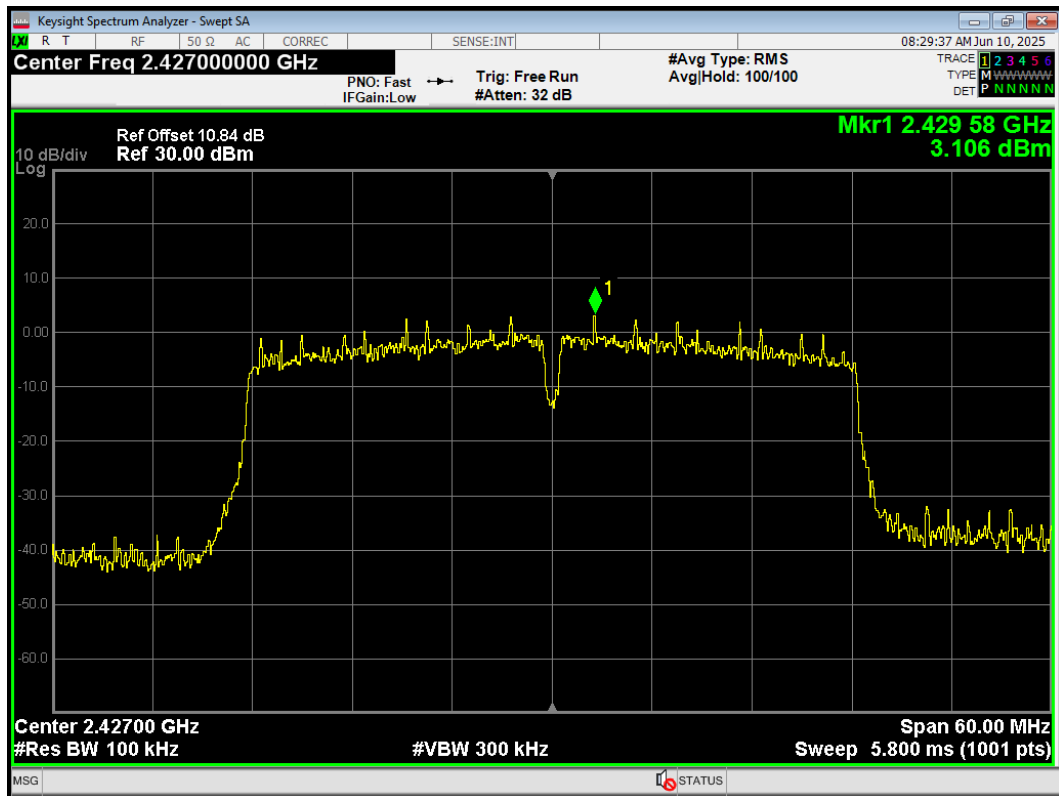
Tx. Spurious 802.11n(HT40) 2422MHz Ref



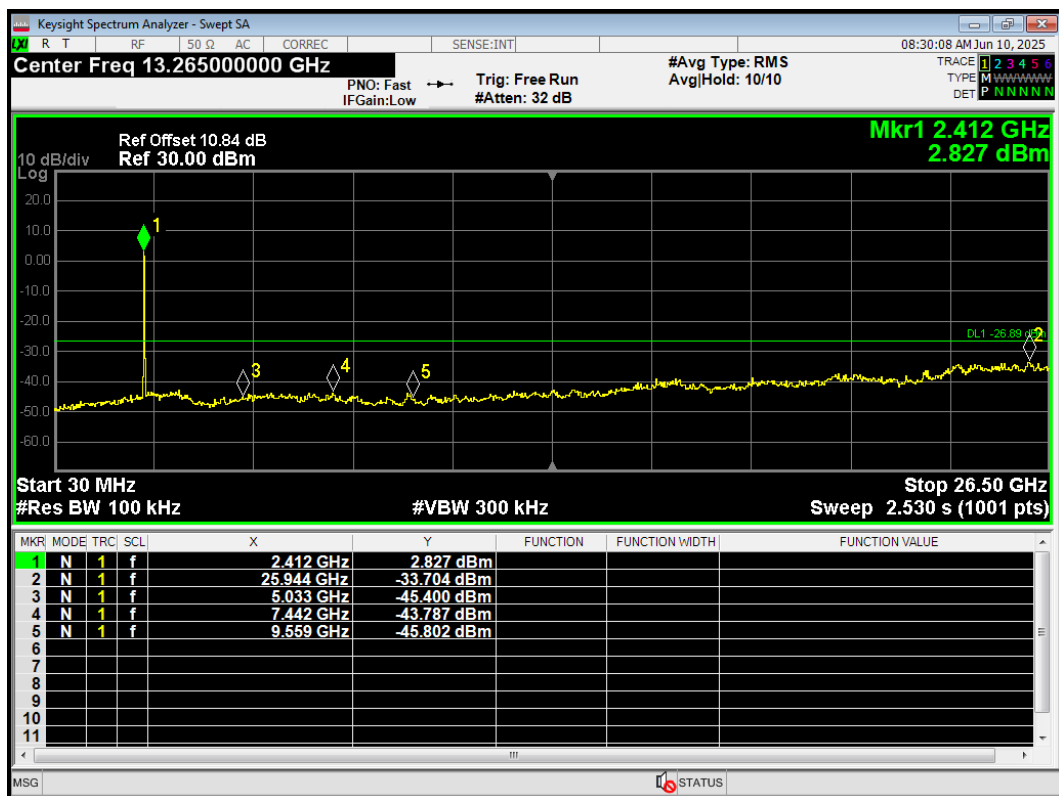
Tx. Spurious 802.11n(HT40) 2422MHz Emission



Tx. Spurious 802.11n(HT40) 2427MHz Ref



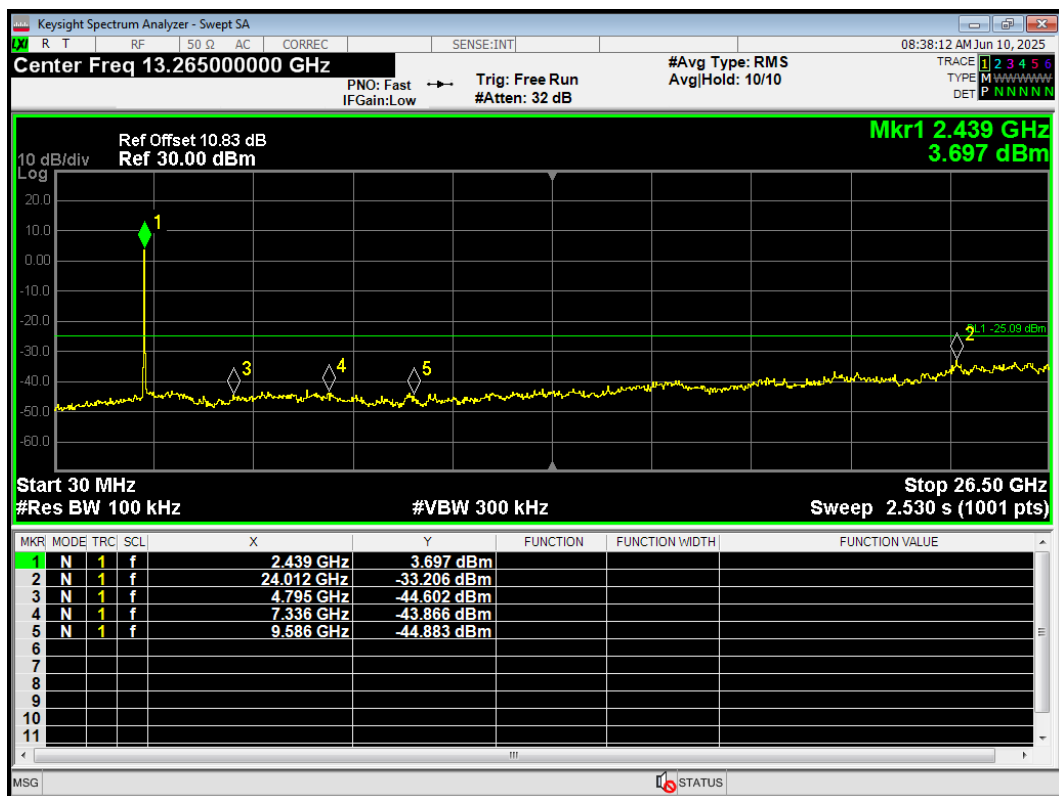
Tx. Spurious 802.11n(HT40) 2427MHz Emission



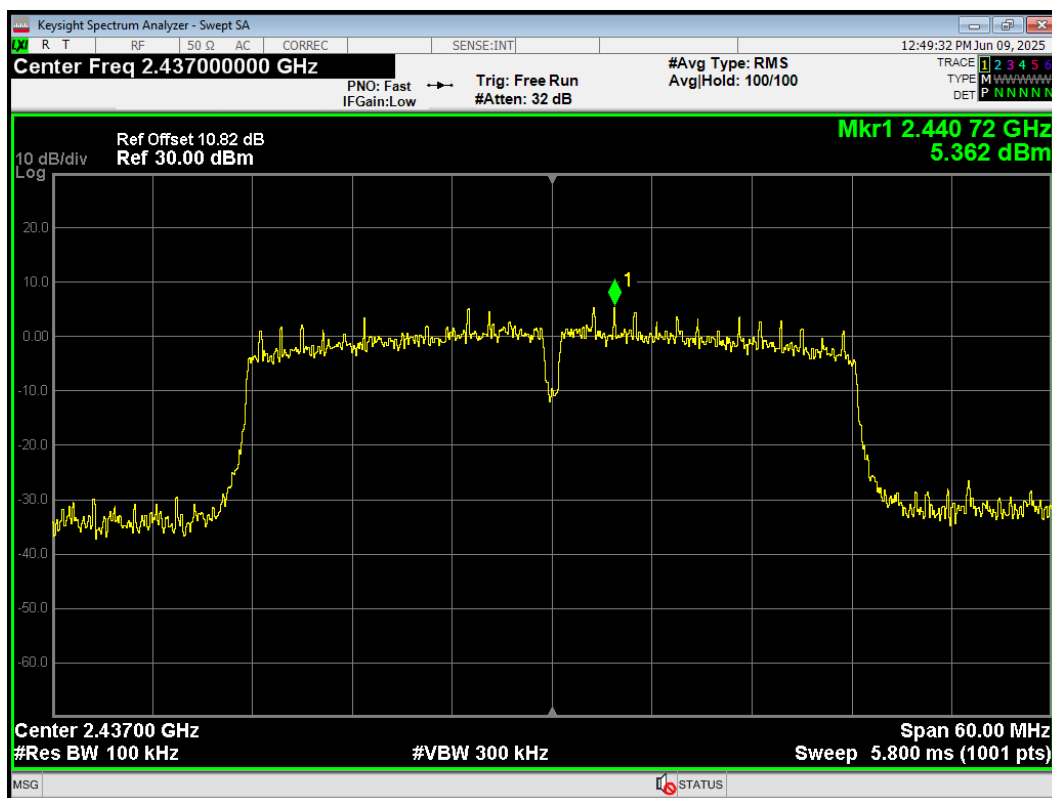
Tx. Spurious 802.11n(HT40) 2432MHz Ref



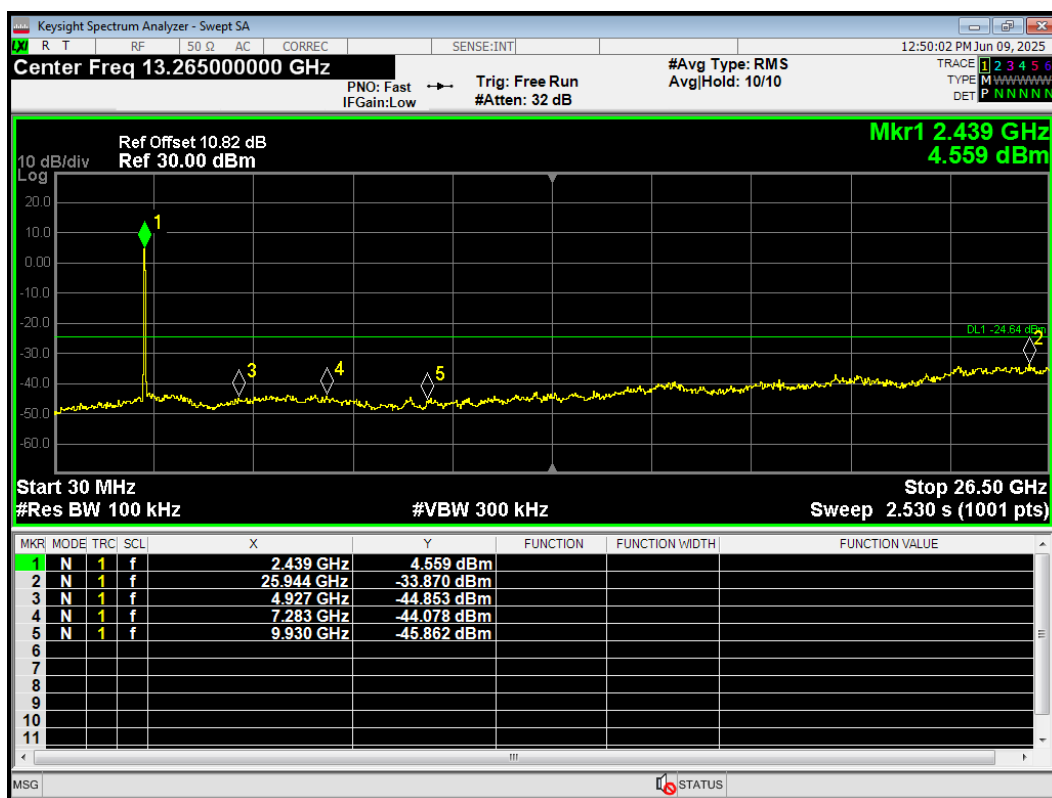
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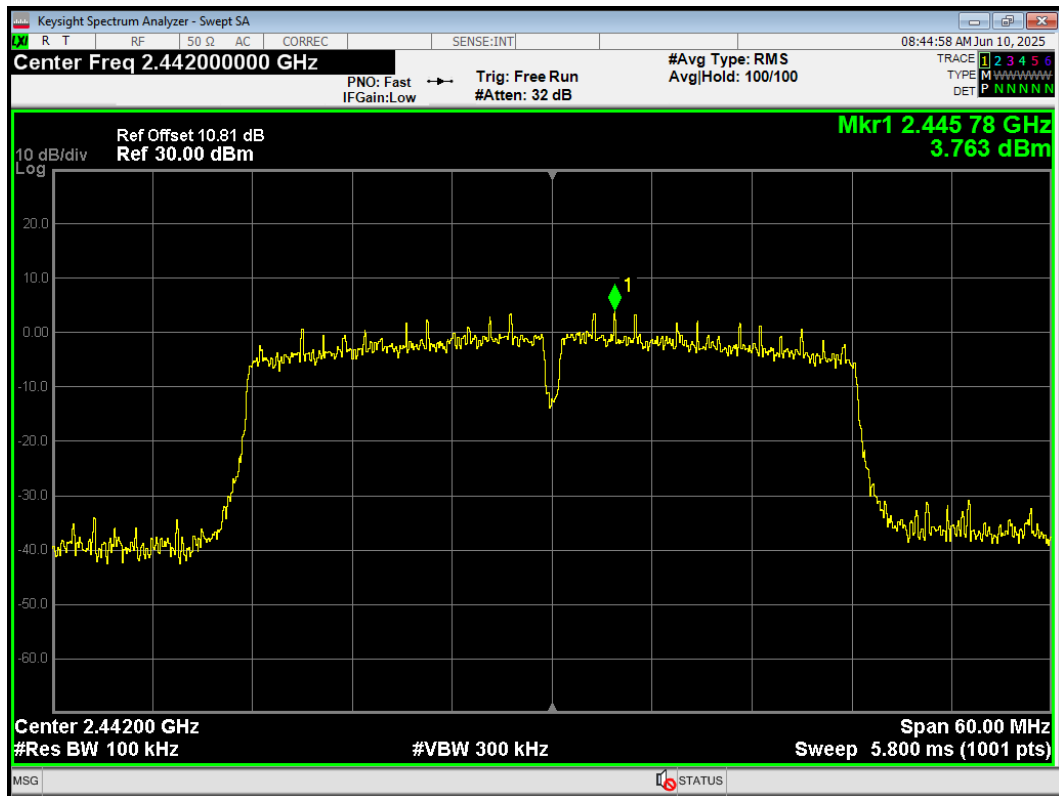
Tx. Spurious 802.11n(HT40) 2437MHz Ref



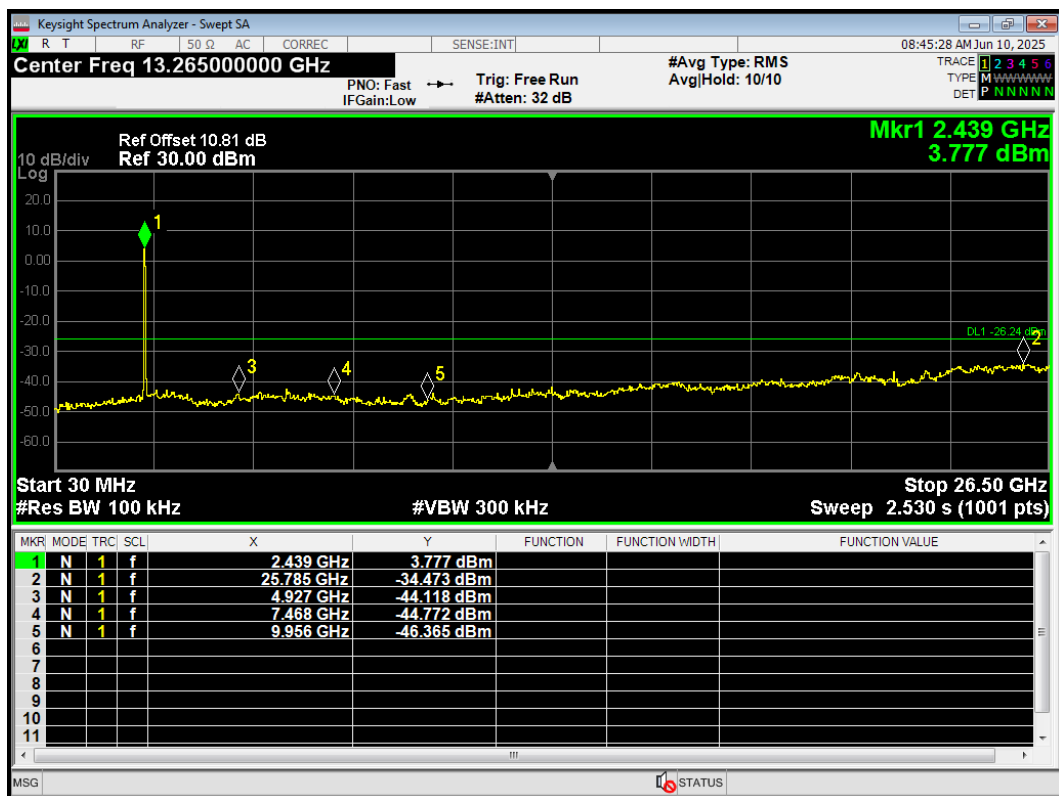
Tx. Spurious 802.11n(HT40) 2437MHz Emission



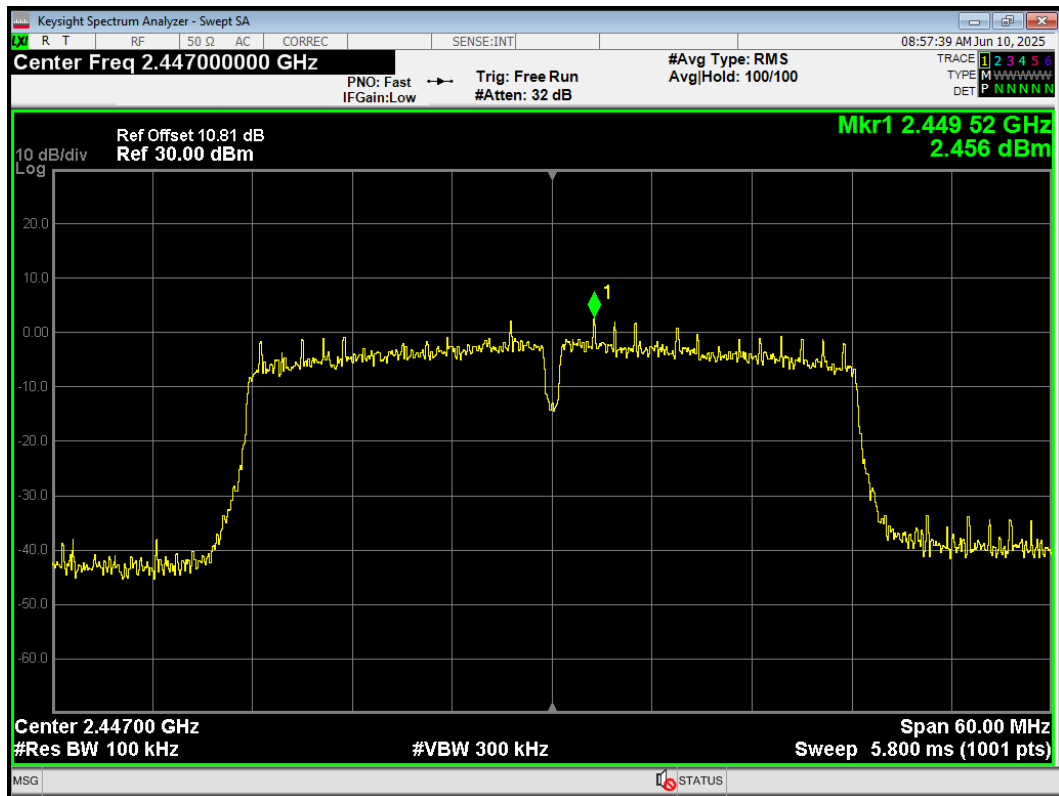
Tx. Spurious 802.11n(HT40) 2442MHz Ref



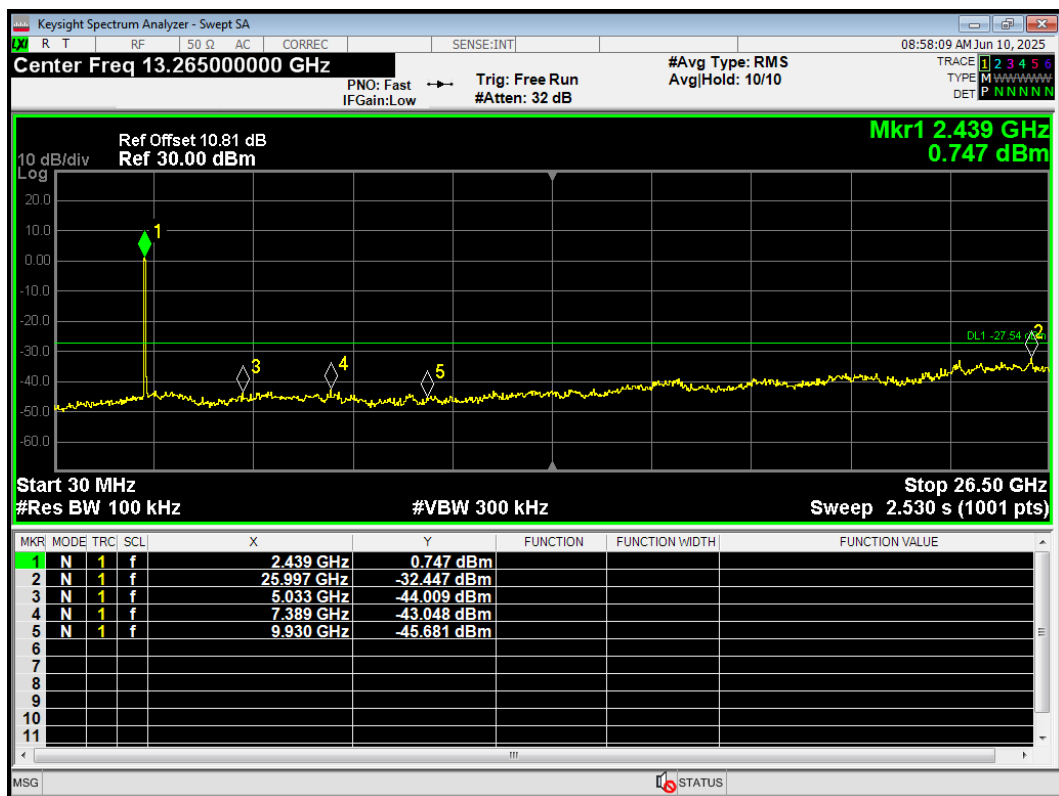
Tx. Spurious 802.11n(HT40) 2442MHz Emission



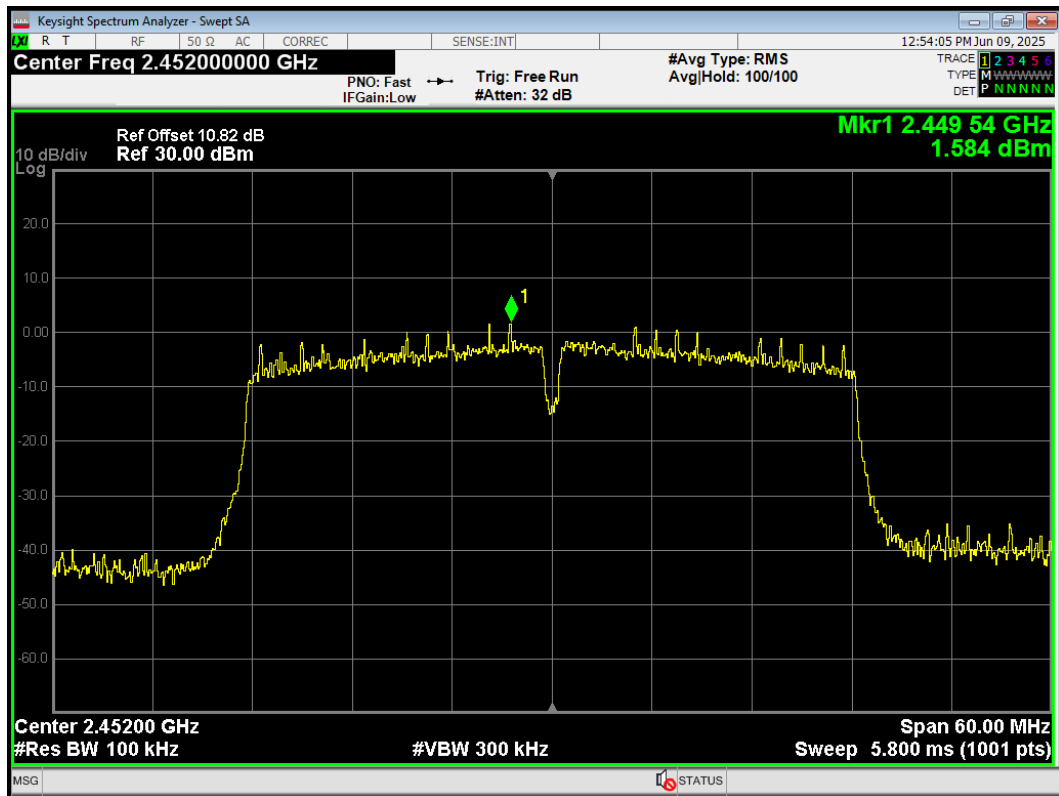
Tx. Spurious 802.11n(HT40) 2447MHz Ref



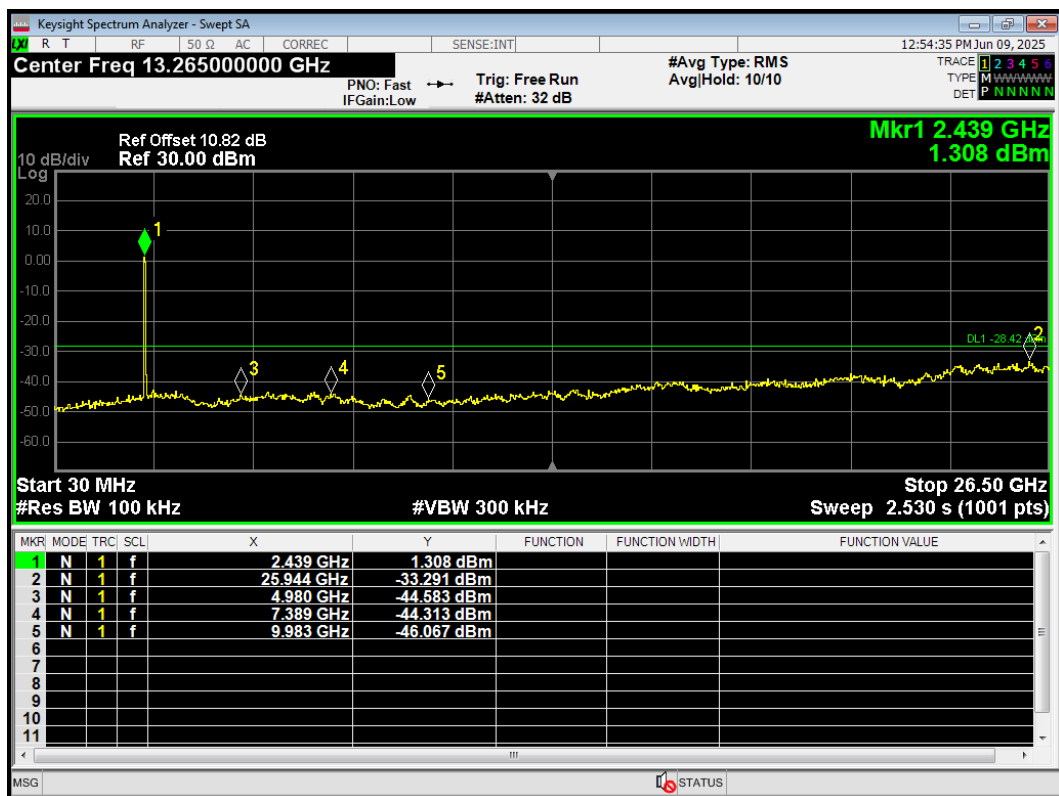
Tx. Spurious 802.11n(HT40) 2447MHz Emission



Tx. Spurious 802.11n(HT40) 2452MHz Ref

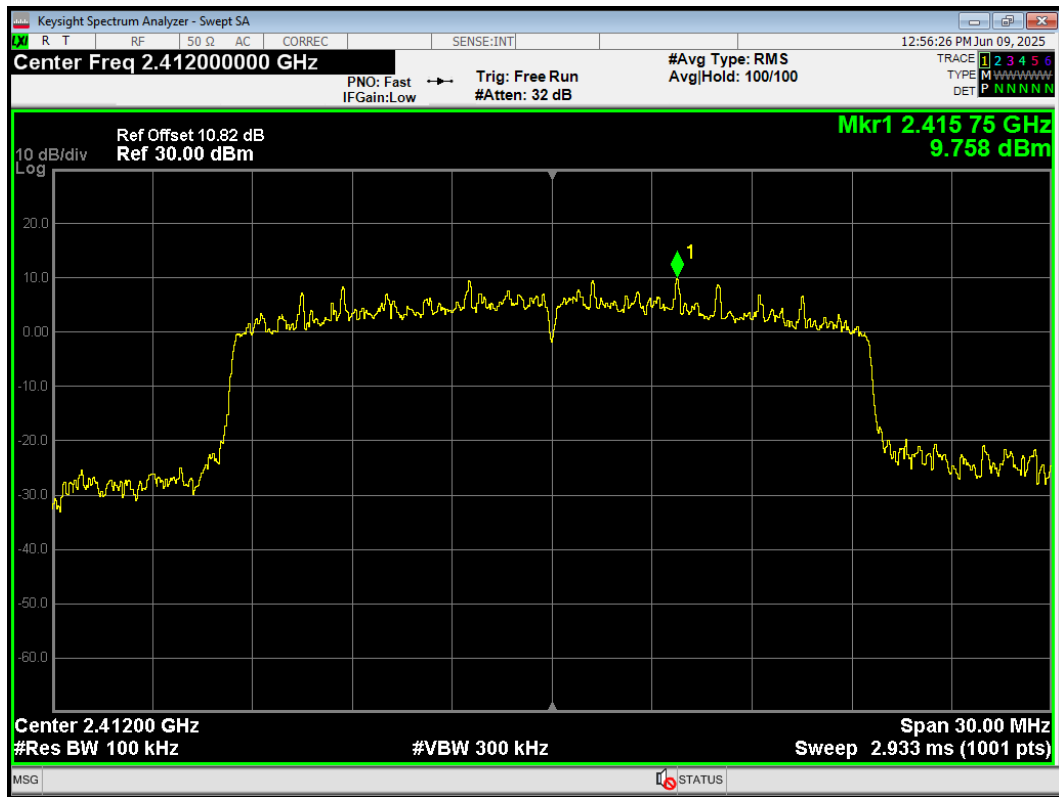


Tx. Spurious 802.11n(HT40) 2452MHz Emission

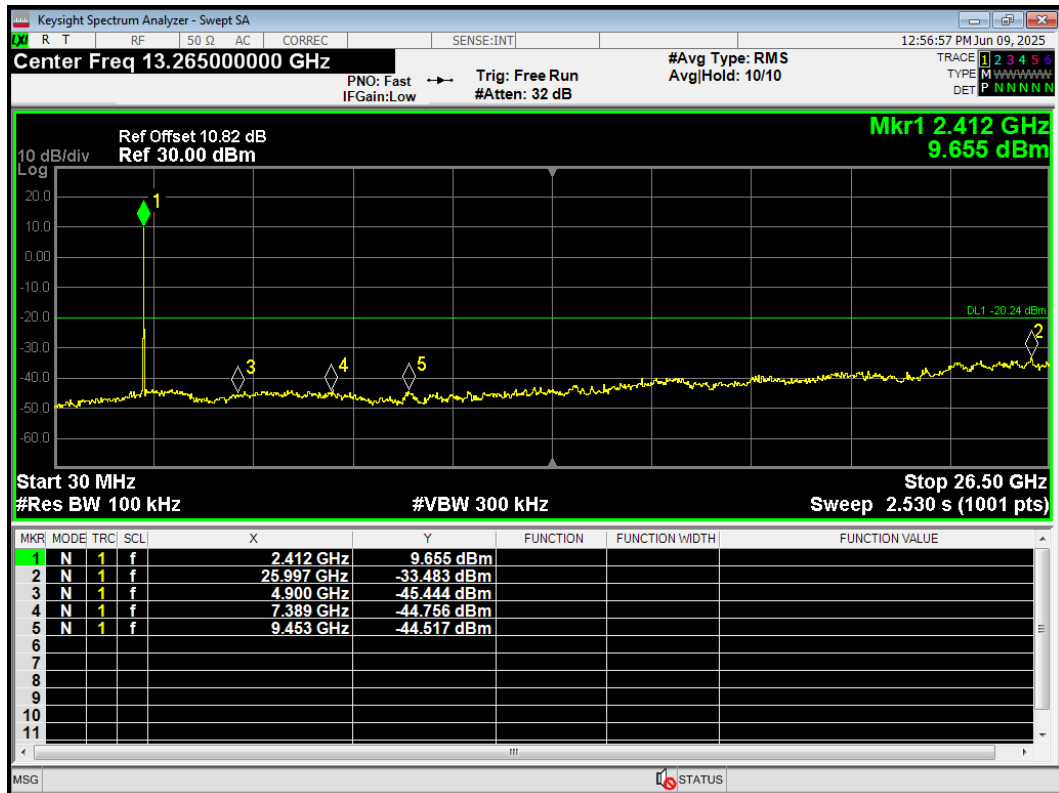


INPAQ

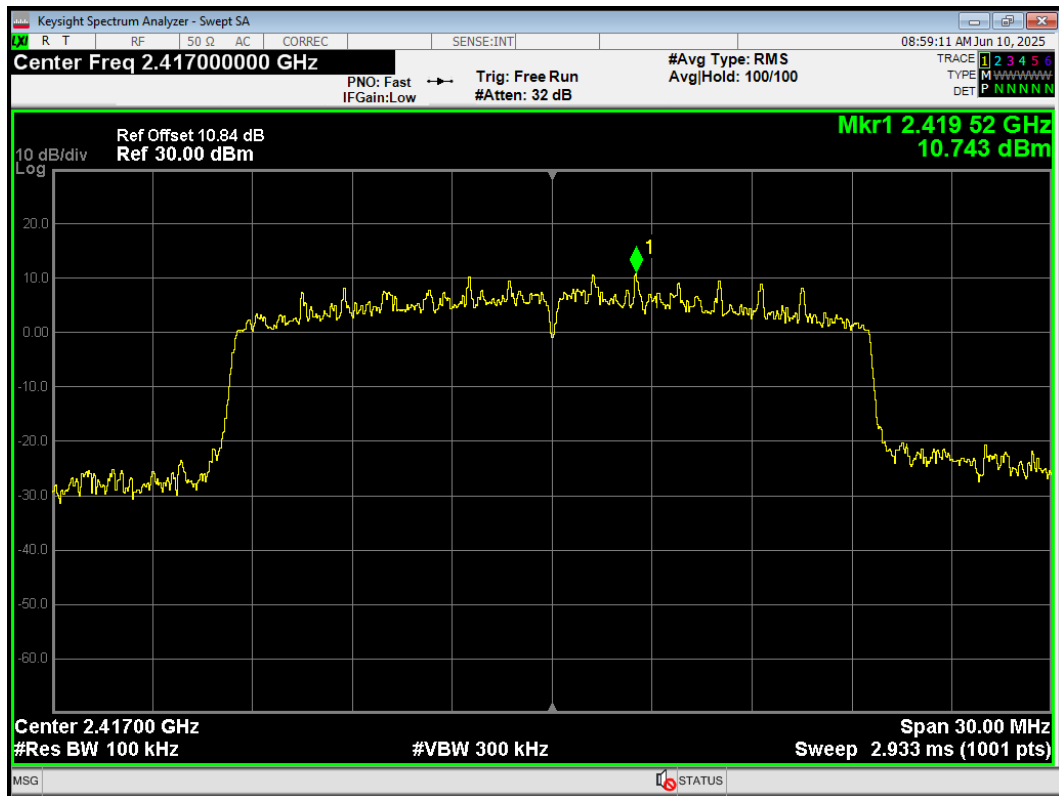
Tx. Spurious 802.11ax(HE20) 2412MHz Ref



Tx. Spurious 802.11ax(HE20) 2412MHz Emission



Tx. Spurious 802.11ax(HE20) 2417MHz Ref



Tx. Spurious 802.11ax(HE20) 2417MHz Emission

