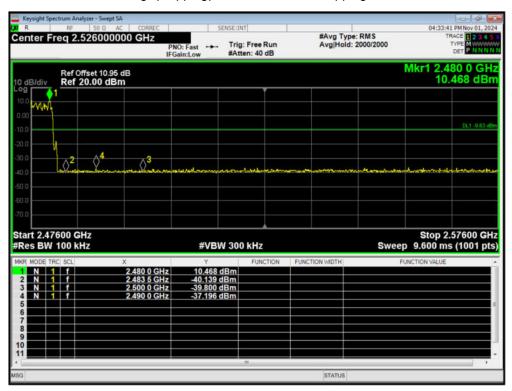
Band Edge(Hopping) 3-DH5 2480MHz Hopping Ref



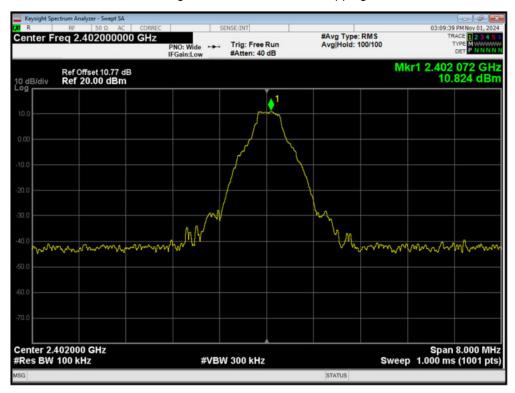
Band Edge(Hopping) 3-DH5 2480MHz Hopping Emission



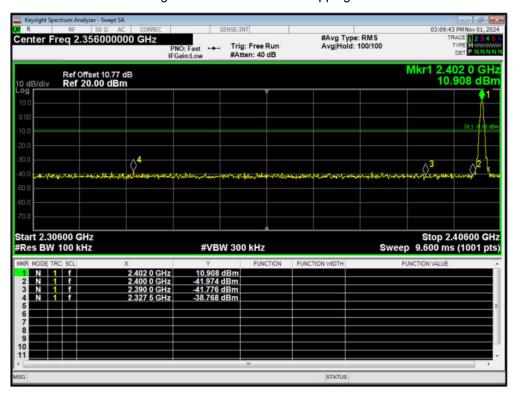
Hopping Off

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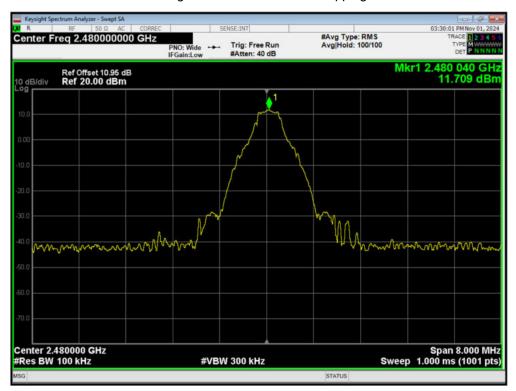
Band Edge 1-DH5 2402MHz No-Hopping Ref



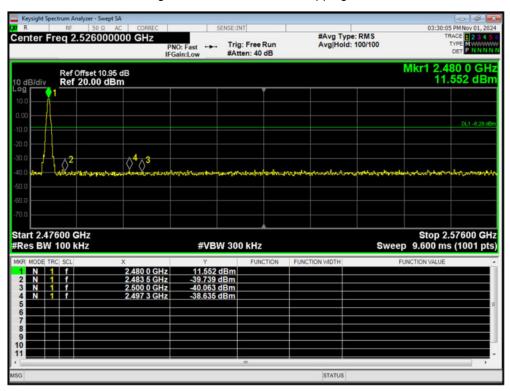
Band Edge 1-DH5 2402MHz No-Hopping Emission



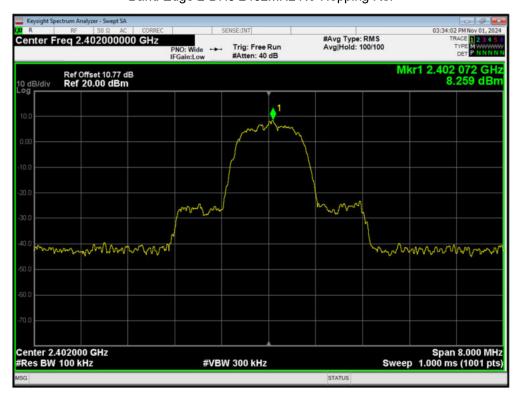
Band Edge 1-DH5 2480MHz No-Hopping Ref



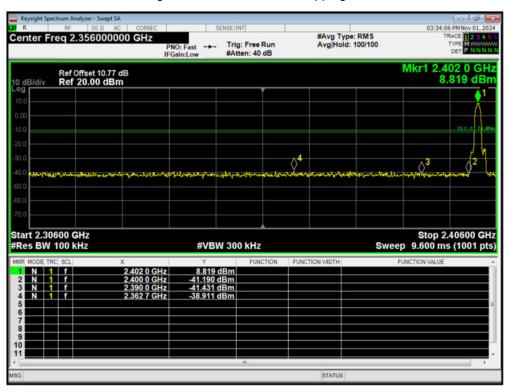
Band Edge 1-DH5 2480MHz No-Hopping Emission



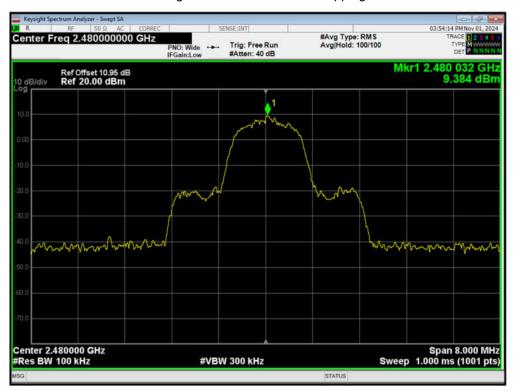
Band Edge 2-DH5 2402MHz No-Hopping Ref



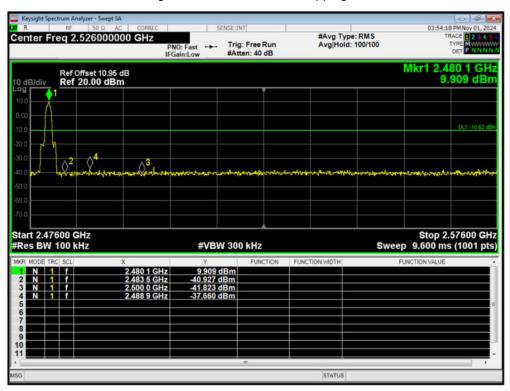
Band Edge 2-DH5 2402MHz No-Hopping Emission



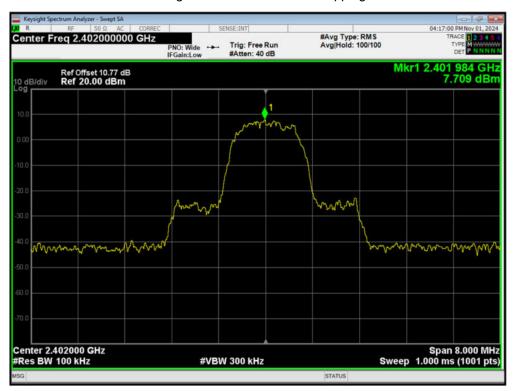
Band Edge 2-DH5 2480MHz No-Hopping Ref



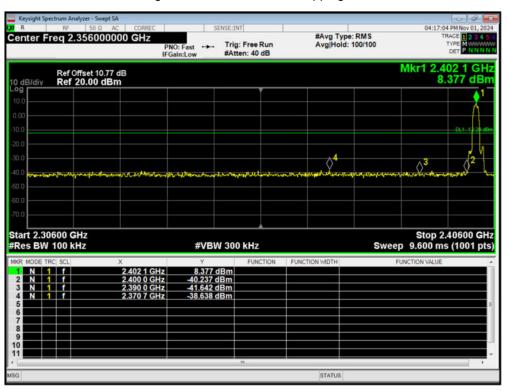
Band Edge 2-DH5 2480MHz No-Hopping Emission



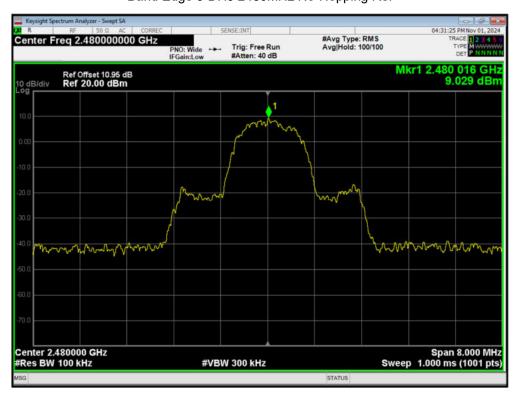
Band Edge 3-DH5 2402MHz No-Hopping Ref



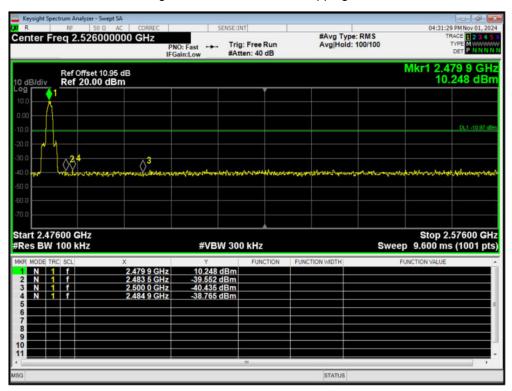
Band Edge 3-DH5 2402MHz No-Hopping Emission



Band Edge 3-DH5 2480MHz No-Hopping Ref



Band Edge 3-DH5 2480MHz No-Hopping Emission



5.6 Number of hopping Frequency

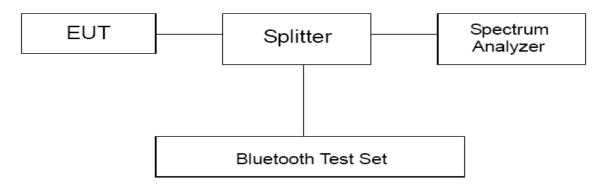
Ambient condition

| Temperature | Relative humidity | Pressure | | |
|-------------|-------------------|------------------|--|--|
| 15°C ~ 35°C | 20% ~ 80% | 86 kPa ~ 106 kPa | | |

Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. RBW is set to 100kHz and VBW is set to 300kHz on spectrum analyzer. Set EUT on Hopping on mode.

Test setup



Limits

Rule Part 15.247(a) (1) (iii) specifies that" Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels."

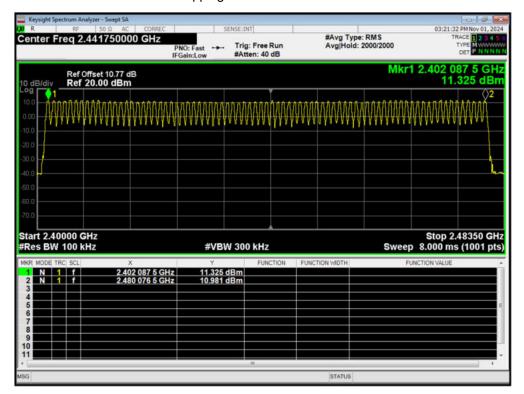


Test Results:

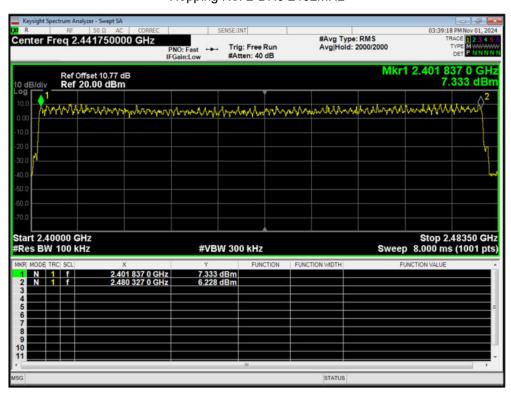
| Test Mode | | Number of hopping channels | conclusion | |
|-----------|------|----------------------------|------------|--|
| | DH5 | 79 | PASS | |
| Bluetooth | 2DH5 | 79 | PASS | |
| | 3DH5 | 79 | PASS | |



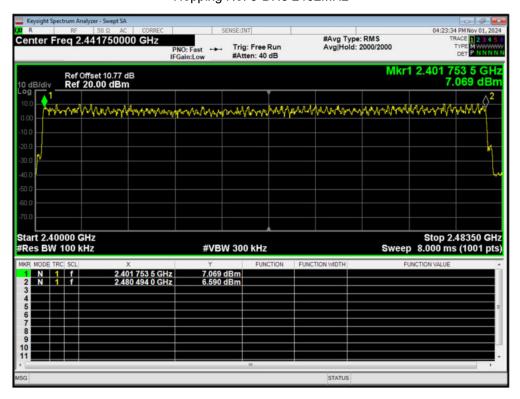
Hopping No. 1-DH5 2402MHz



Hopping No. 2-DH5 2402MHz



Hopping No. 3-DH5 2402MHz



5.7 Spurious RF Conducted Emissions

Ambient condition

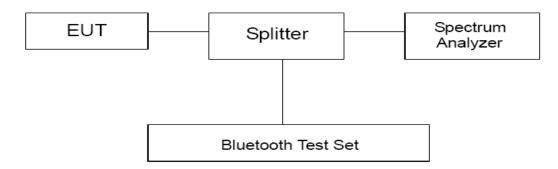
| Temperature | Relative humidity | Pressure | |
|-------------|-------------------|------------------|--|
| 15°C ~ 35°C | 20% ~ 80% | 86 kPa ~ 106 kPa | |

Method of Measurement

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

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) pacifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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."

| Test Mode | Carrier frequency (MHz) | Reference value (dBm) | Limit |
|-----------|-------------------------|-----------------------|--------|
| DH5 | 2402 | -22.700 | -9.50 |
| | 2441 | -22.190 | -9.76 |
| | 2480 | -22.220 | -8.38 |
| 2DH5 | 2402 | -22.590 | -10.35 |
| | 2441 | -22.500 | -11.66 |
| | 2480 | -21.690 | -9.70 |
| 3DH5 | 2402 | -21.940 | -10.64 |
| | 2441 | -21.040 | -11.63 |
| | 2480 | -22.090 | -9.58 |



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:

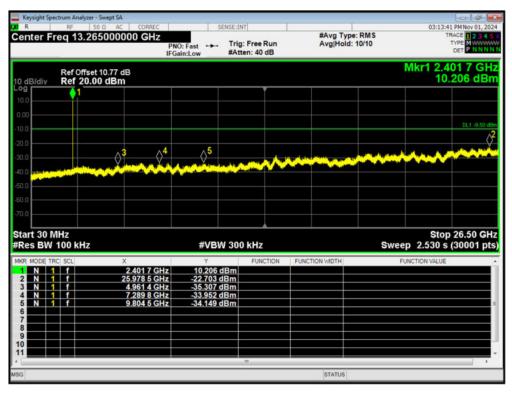
eurofins

The signal beyond the limit is carrier.

Tx. Spurious 1-DH5 2402MHz Ref



Tx. Spurious 1-DH5 2402MHz Emission

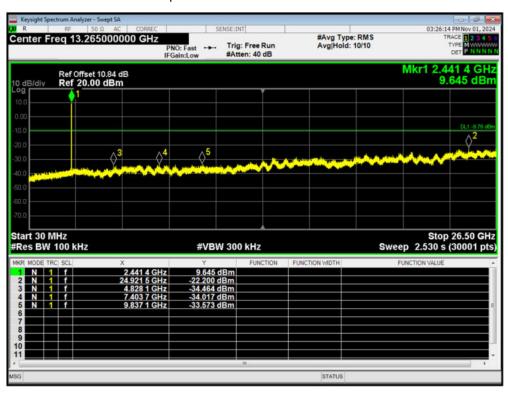


Eurofins TA Technology (Shanghai) Co., Ltd.

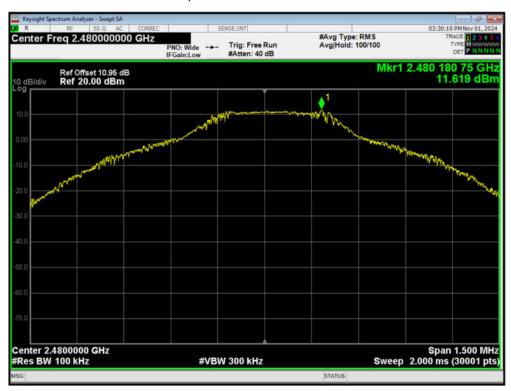
Tx. Spurious 1-DH5 2441MHz Ref



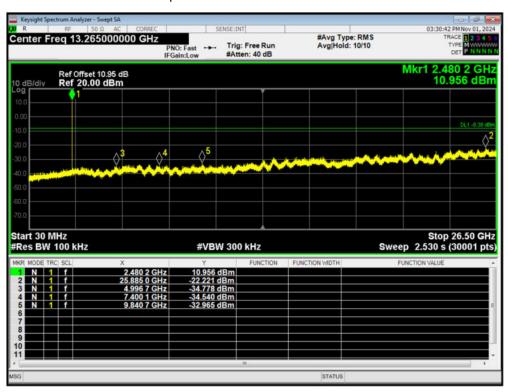
Tx. Spurious 1-DH5 2441MHz Emission



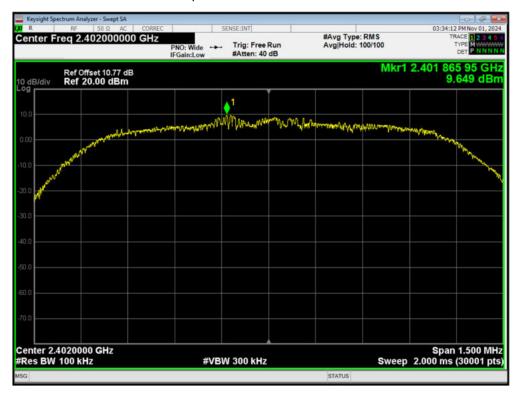
Tx. Spurious 1-DH5 2480MHz Ref



Tx. Spurious 1-DH5 2480MHz Emission



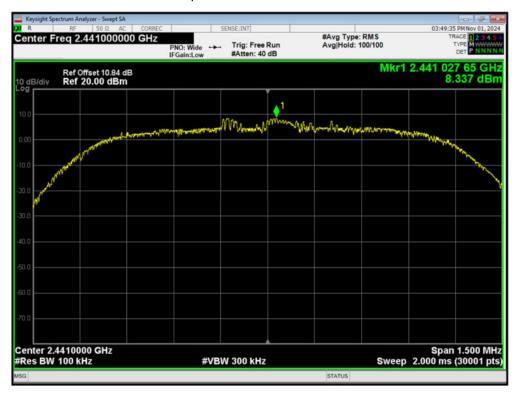
Tx. Spurious 2-DH5 2402MHz Ref



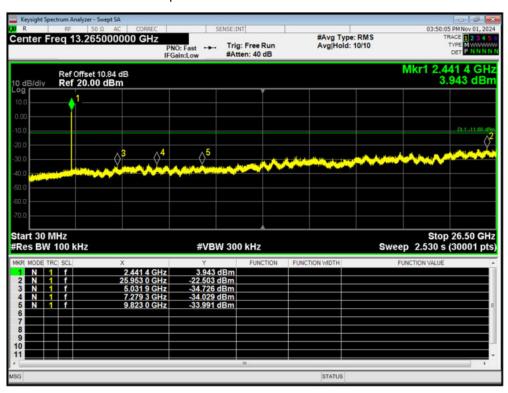
Tx. Spurious 2-DH5 2402MHz Emission



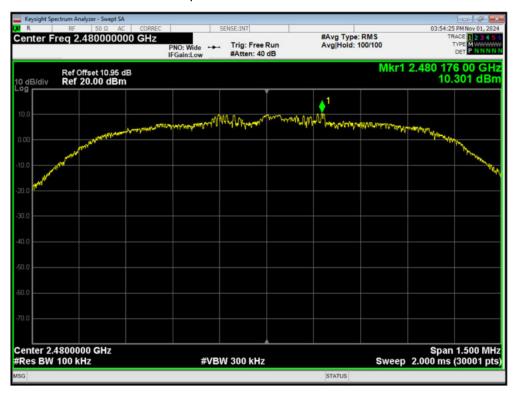
Tx. Spurious 2-DH5 2441MHz Ref



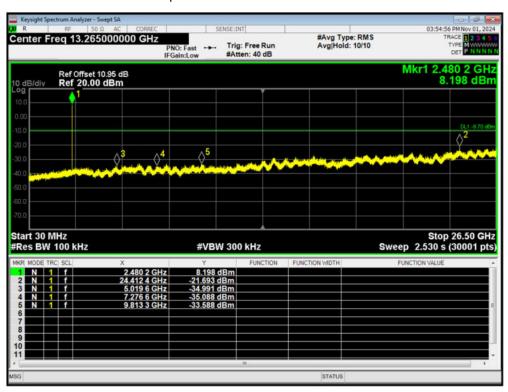
Tx. Spurious 2-DH5 2441MHz Emission



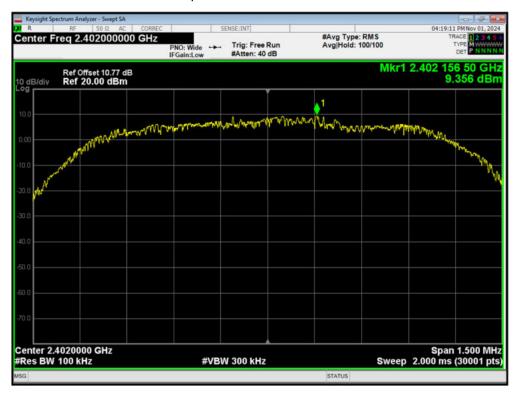
Tx. Spurious 2-DH5 2480MHz Ref



Tx. Spurious 2-DH5 2480MHz Emission



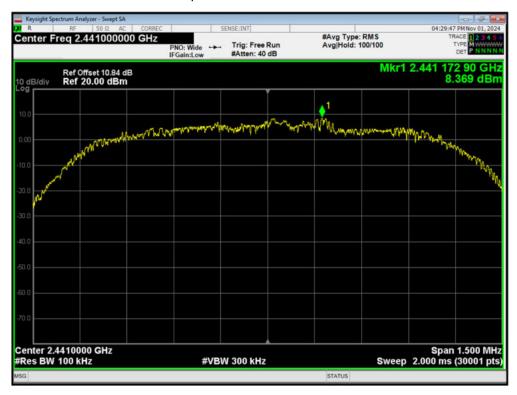
Tx. Spurious 3-DH5 2402MHz Ref



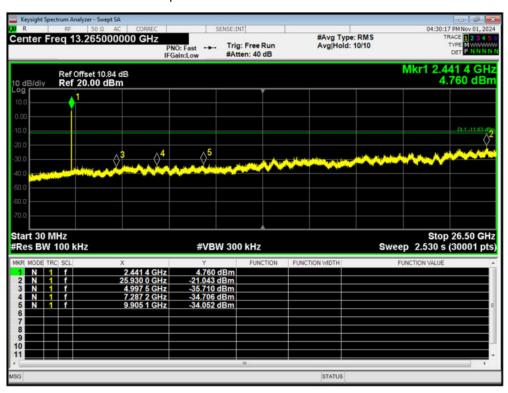
Tx. Spurious 3-DH5 2402MHz Emission



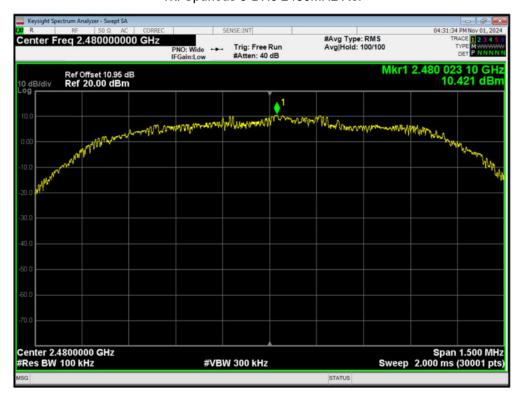
Tx. Spurious 3-DH5 2441MHz Ref



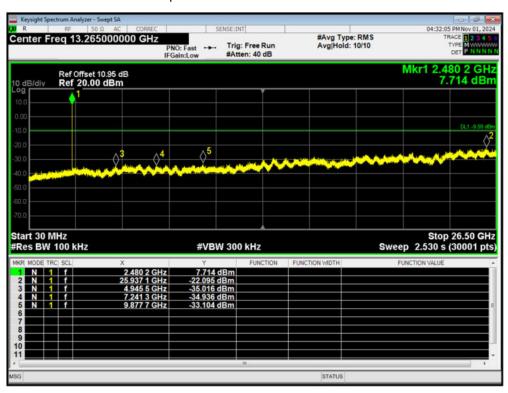
Tx. Spurious 3-DH5 2441MHz Emission



Tx. Spurious 3-DH5 2480MHz Ref



Tx. Spurious 3-DH5 2480MHz Emission



Main Test Instruments 6

| Name | Manufacturer | Туре | Serial Number | Calibration Date | Expiration Date |
|-------------------|--------------|--------|------------------|---------------------|--------------------|
| Power Sensor | R&S | NRP18S | 101954 | 2024-05-07 | 2025-05-06 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51330870 | 2024-05-07 | 2025-05-06 |

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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