

TEST REPORT

Report Number: 15496249-E3V2

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A

Model : A3257 (Parent)
A3525, A3526, A3527 (Variants)

Brand : APPLE

FCC ID : BCG-E8950A (Parent)
BCG-E8960A, BCG-E8961A, BCG-E8962A (Variants)

IC : 579C-E8950A (Parent)
579C-E8960A, 579C-E8961A, 579C-E8962A (Variants)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 ISSUE 3
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2025-08-11

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538 U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888



REPORT REVISION HISTORY

| Rev. | Issue Date | Revisions | Revised By |
|------|------------|--------------------------------|-----------------|
| V1 | 2025-07-31 | Initial Issue | Michael Kennedy |
| V2 | 2025-08-11 | Updated section 6,9,10, and 12 | Gerardo Abrego |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE INC.
 1 APPLE PARK WAY
 CUPERTINO, CA 95014, U.S.A

EUT DESCRIPTION: SMARTPHONE

MODEL: A3257 (Parent)
 A3525, A3526, A3527 (Variants)

BRAND: APPLE

SERIAL NUMBER: HVHHCY0001P0000YEE, HVHHHD0004U0000YE8 (Conducted)
 DHVYMJ7FMF (Radiated)

SAMPLE RECEIPT DATE: 2025-03-07

DATE TESTED: 2025-03-28 to 2025-08-11

| APPLICABLE STANDARDS | |
|--------------------------------|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 Part 15 Subpart C | Complies |
| ISED RSS-247 Issue 3 | Complies |
| ISED RSS-GEN Issue 5 + A1 + A2 | Complies |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc will constitute fraud and shall nullify the document.

Approved & Released For
UL Verification Services Inc. By:



Frank Ibrahim
Staff Engineer
Consumer Technology Division
UL Verification Services Inc.

Prepared By:



Gerardo Abrego
Test Engineer
Consumer Technology Division
UL Verification Services Inc.

2. TEST SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.4)
2. Cable loss (see section 6.4)

| FCC Clause | ISED Clause | Requirement | Result | Comment |
|----------------|-------------------|------------------------------|-------------------------|--------------------------------------|
| See Comment | | Duty Cycle | Reporting purposes only | ANSI C63.10 Section 11.6. |
| - | RSS-GEN 6.7 | 99% OBW | Reporting purposes only | ANSI C63.10 Section 6.9.3. |
| 15.247 (a) (2) | RSS-247 5.2 (a) | 6dB BW | Complies | None. |
| 15.247 (b) (3) | RSS-247 5.4 (d) | Output Power | Complies | None. |
| See Comment | | Average power | Reporting purposes only | Per ANSI C63.10, Section 11.9.2.3.2. |
| 15.247 (e) | RSS-247 5.2 (b) | PSD | Complies | None. |
| 15.247 (d) | RSS-247 5.5 | Conducted Spurious Emissions | Complies | None. |
| 15.209, 15.205 | RSS-GEN 8.9, 8.10 | Radiated Emissions | Complies | None. |
| 15.207 | RSS-Gen 8.8 | AC Mains Conducted Emissions | Complies | None. |

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- FCC 47 CFR Part 2
- FCC 47 CFR Part 15C
- *ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- KDB 558074 D01 15.247 Meas Guidance
- KDB 414788 D01 Radiated Test Site
- KDB 662911 D01 Multiple Transmitter Output
- KDB 484596 D01 Referencing Test Data
- RSS-GEN Issue 5 + A1 + A2
- RSS-247 Issue 3

*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

| | Address | ISED CABID | ISED Company Number | FCC Registration |
|-------------------------------------|--|------------|---------------------|------------------|
| <input type="checkbox"/> | Building 1: 47173 Benicia Street, Fremont, CA 94538, USA | US0104 | 2324A | 550739 |
| <input checked="" type="checkbox"/> | Building 2: 47266 Benicia Street, Fremont, CA 94538, USA | | | |
| <input type="checkbox"/> | Building 3: 843 Auburn Court, Fremont, CA 94538, USA | | | |
| <input checked="" type="checkbox"/> | Building 4: 47658 Kato Rd, Fremont, CA 94538, USA | | | |
| <input checked="" type="checkbox"/> | Building 5: 47670 Kato Rd, Fremont, CA 94538, USA | | | |

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not considered when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | U _{LAB} |
|--|----------------------------|
| Conducted Antenna Port Emission Measurement | 1.94 dB |
| Power Spectral Density | 2.466 dB |
| Time Domain Measurements Using SA | 3.39 % |
| RF Power Measurement Direct Method Using Power Meter | 1.3 dB (Pk), 0.45 dB (Ave) |
| Radio Frequency (Spectrum Analyzer) | 141.16 Hz |
| Occupied Bandwidth | 1.22 % |
| Worst Case Conducted Disturbance, 9kHz to 0.15 MHz | 3.78 dB |
| Worst Case Conducted Disturbance, 0.15 to 30 MHz | 3.40 dB |
| Worst Case Radiated Disturbance, 9kHz to 30 MHz | 2.87 dB |
| Worst Case Radiated Disturbance, 30 to 1000 MHz | 6.01 dB |
| Worst Case Radiated Disturbance, 1000 to 18000 MHz | 4.73 dB |
| Worst Case Radiated Disturbance, 18000 to 26000 MHz | 4.51 dB |

Uncertainty figures are valid to a confidence level of 95%.

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

| Antenna | Configuration | Frequency Range (MHz) | Mode | Output Power (dBm) | Output Power (mW) |
|-------------------|---------------|-----------------------|------|--------------------|-------------------|
| ANT 2 | High Power | 2404 - 2476 | HDR4 | 16.04 | 40.18 |
| | Low Power | | | 7.35 | 5.43 |
| | High Power | | HDR8 | 16.05 | 40.27 |
| | Low Power | | | 7.31 | 5.38 |
| ANT 1 | High Power | 2404 - 2476 | HDR4 | 16.51 | 44.77 |
| | Low Power | | | 8.95 | 7.85 |
| | High Power | | HDR8 | 16.60 | 45.71 |
| | Low Power | | | 8.88 | 7.73 |
| BF, ANT 2 + ANT 1 | High Power | 2404 - 2476 | HDR4 | 19.27 | 84.53 |
| | Low Power | | | 10.89 | 12.27 |
| | High Power | | HDR8 | 19.29 | 84.92 |
| | Low Power | | | 11.09 | 12.85 |

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antenna(s) gain, type and cable loss, as provided by the manufacturer are as follows:

| Frequency Band (GHz) | Antenna Type | Antenna Peak Gain ANT 2 (dBi) | Antenna Peak Gain ANT 1 (dBi) | Cable Loss ANT 2 (dB) | Cables Loss ANT 1 (dB) |
|----------------------|--------------|-------------------------------|-------------------------------|-----------------------|------------------------|
| 2.4 | IFA | -1.1 | -3.1 | 2.1 | 1.9 |

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware is 23A258.

6.5. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in three orthogonal orientations X, Y and Z on both ANT 2, ANT 1 and 2TX, it was determined that X(Flatbed) orientation was the worst-case orientation for ANT 2, ANT 1 and 2TX.

Radiated band edge, harmonic, and spurious emissions from 1GHz to 18GHz were performed with the EUT set to transmit at highest power on Low/Middle/High channels. There were no emissions found below 30 MHz within 20dB of the limit

Radiated emissions below 30MHz, below 1GHz, 18-26GHz and power line conducted emissions were performed with the EUT transmits at the channel with the highest output power as worst-case scenario.

For below 1GHz, tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop.

During investigation, it was observed that in scenarios where HDR4 and HDR8 represented the worst-case condition for 2.5MHz & 5MHz BW. As a result, only HDR4 and HDR8 were tested.

| 2G | | | | | |
|------|----------|------------|-----------------------|-----------------|-----|
| Mode | BW (MHz) | Modulation | Frequency Range (MHz) | Worst Case Tone | |
| | | | | Power | PSD |
| HDR | 2.5MHz | HDR4 | 2404-2476 | X | X |
| | | HDRPS2 | | | |
| | | XHDRPS2 | | | |
| | 5MHz | HDR8 | 2404-2476 | X | X |
| | | HDRPM4 | | | |
| | | HDRPM6 | | | |
| | | HDRPM8 | | | |
| | | XHDRPM4 | | | |
| | | XHDRPM6 | | | |
| | | XHDRPM8 | | | |
| | | HDRPM12 | | | |
| | | HDRPM16 | | | |
| | | XHDRPM12 | | | |
| | | XHDRPM16 | | | |

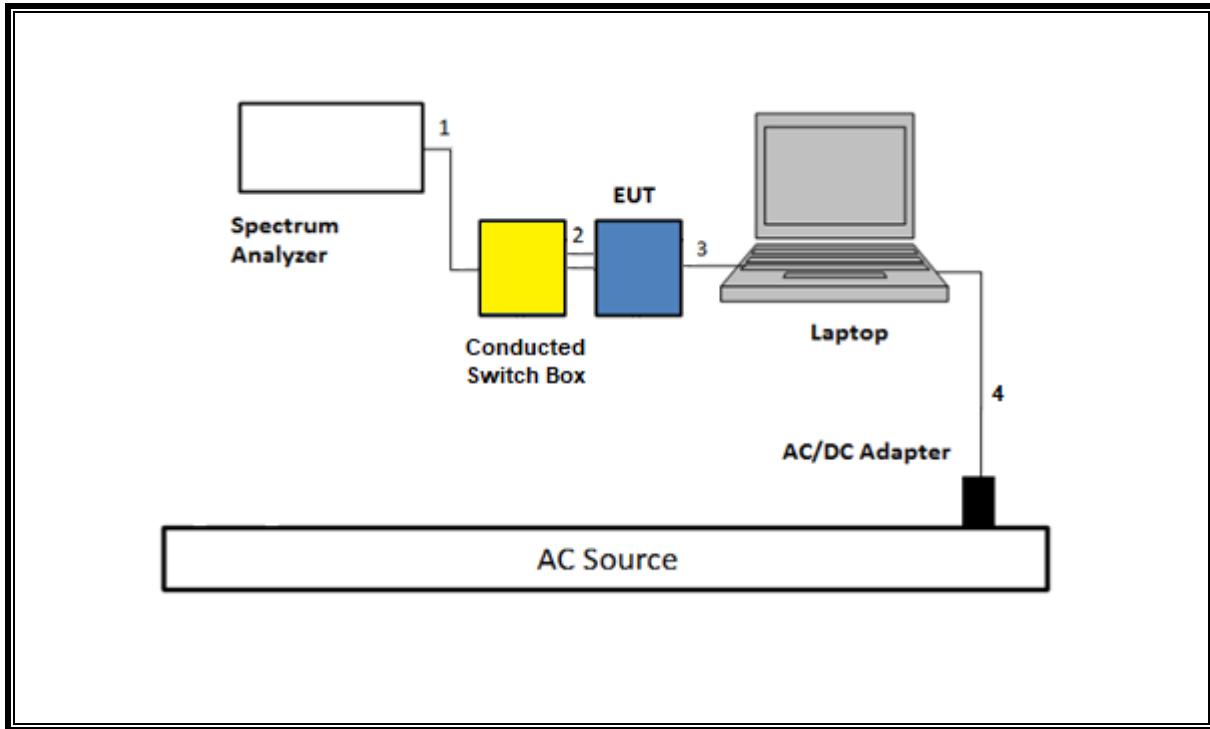
6.6. DESCRIPTION OF TEST SETUP

| SUPPORT TEST EQUIPMENT | | | | | | |
|---|-------------------|----------------------|-------------------|-------------|------------------|----------------------|
| Description | Manufacturer | Model | Serial Number | FCC ID/ DoC | | |
| Laptop | Apple | Macbook Pro | C02VD7SAHV22 | BCGA1708 | | |
| Laptop AC/DC adapter | Liteon Technology | A1424 | NSW25679 | DoC | | |
| EUT AC/DC adapter | Apple | A1720 | C3D8417A7R93KVPA8 | DoC | | |
| Conducted Switch Box | UL | n/a | 208281 | N/A | | |
| I/O CABLES (RF CONDUCTED TEST) | | | | | | |
| Cable No. | Port | # of Identical Ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | SMA | 1 | SMA | Shielded | 0.2 | To spectrum Analyzer |
| 2 | Antenna | 1 | SMA | Shielded | 0.2 | EUT to Switchbox |
| 3 | USB | 1 | USB-C | Shield | 1.0 | N/A |
| 4 | DC | 1 | DC | Shield | 2.0 | N/A |
| I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST) | | | | | | |
| Cable No. | Port | # of Identical Ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | DC | 1 | DC | Shielded | 2 | N/A |
| 2 | USB | 1 | USB-C | Shielded | 1 | N/A |

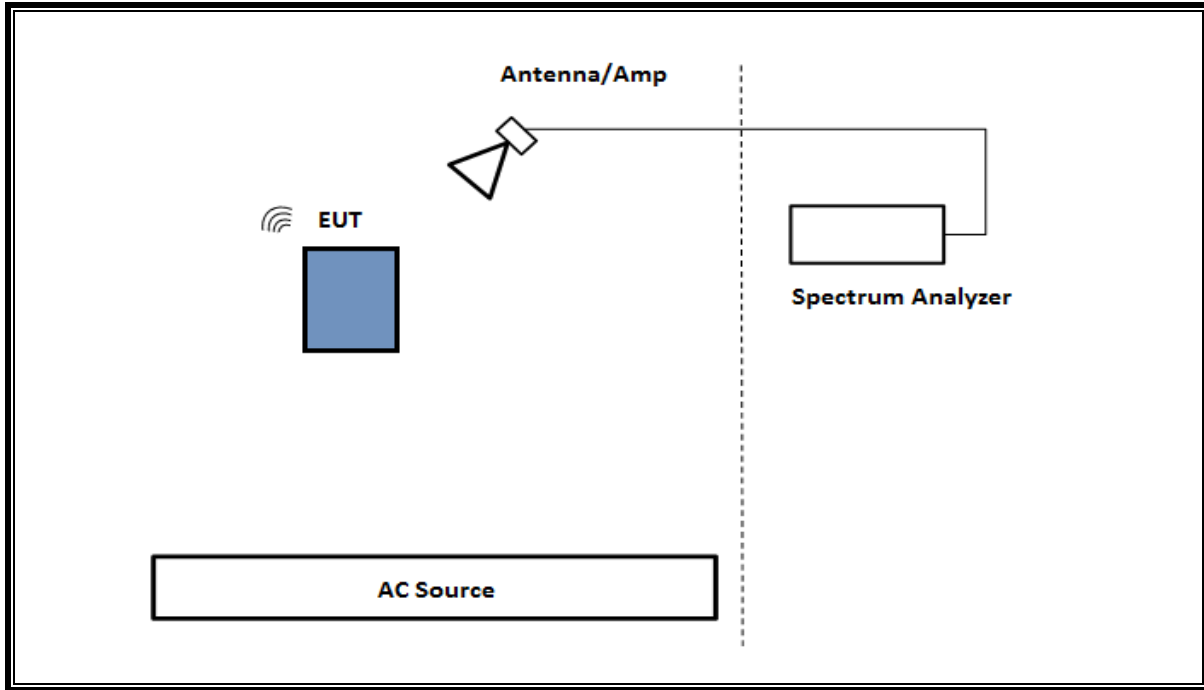
TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

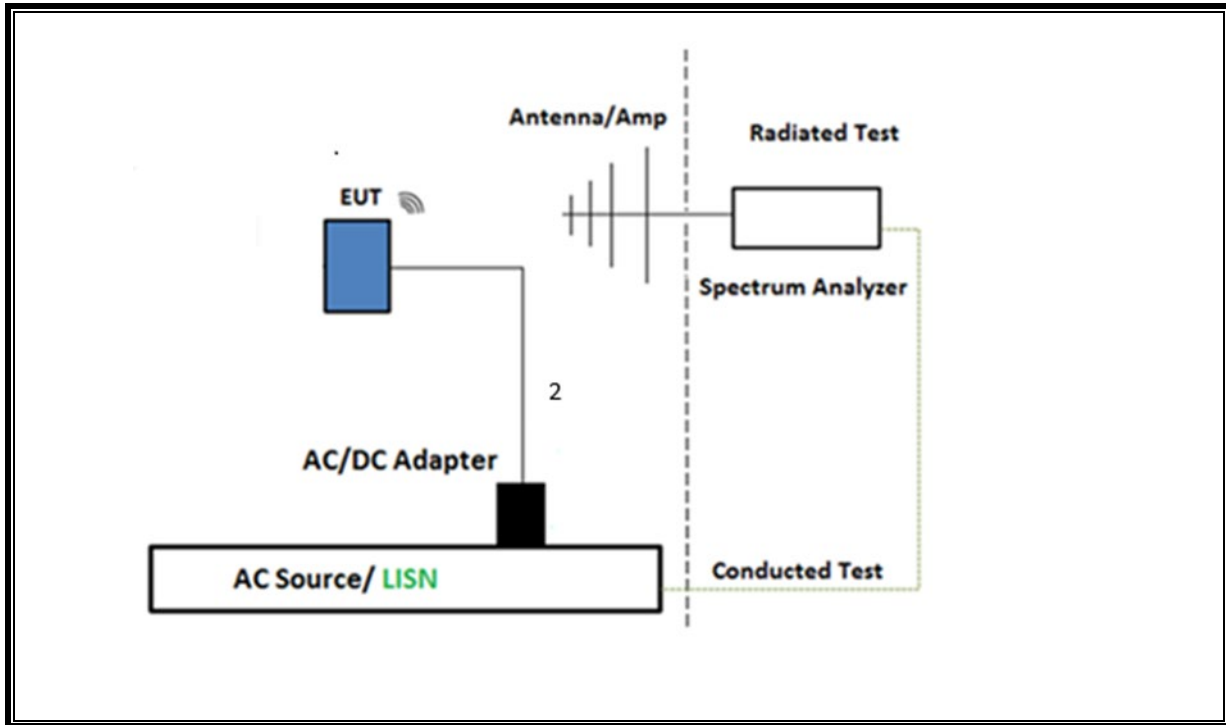
SETUP DIAGRAM FOR CONDUCTED TESTS



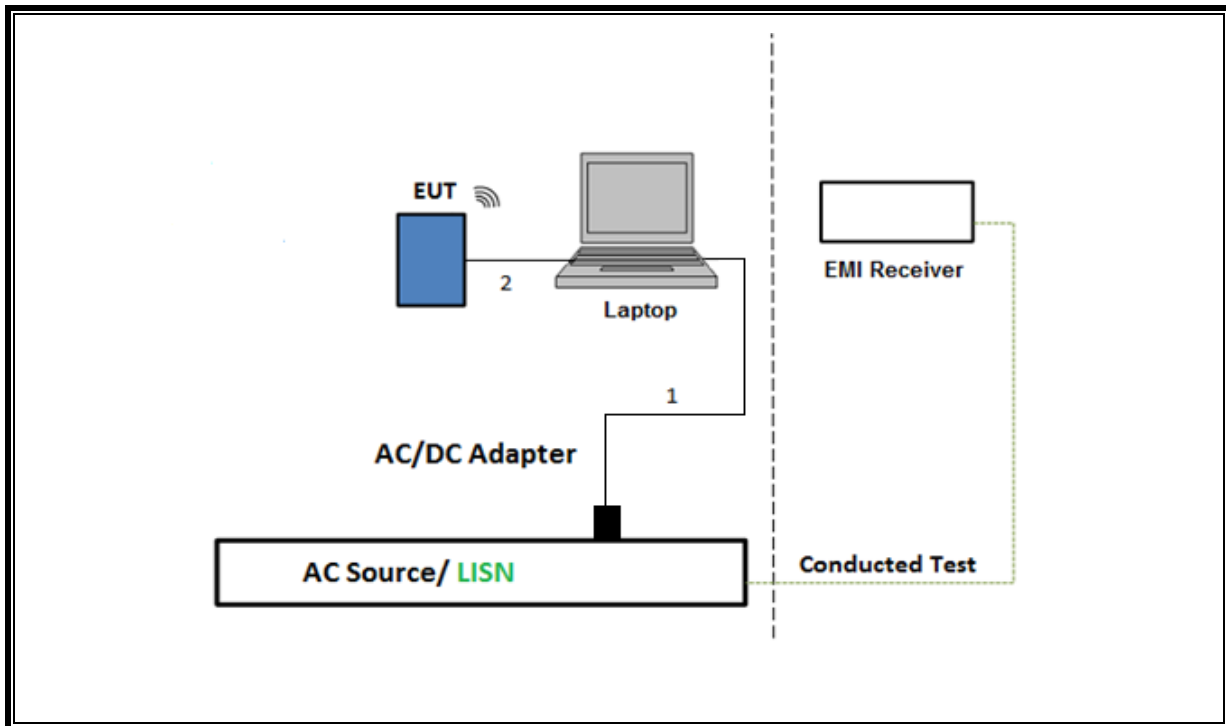
SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz



SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST



TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION



7. MEASUREMENT METHOD

On Time and Duty Cycle: ANSI C63.10 Section 11.6

6 dB BW: ANSI C63.10 Section 11.8.1 RBW \geq DTS BW

Occupied BW (99%): ANSI C63.10 Section 6.9.3

Output Power: ANSI C63.10 Section 11.9.1.2 Method PKPM1 Peak-reading power meter

Output Power: ANSI C63.10 Section 11.9.2.3.2 Measurement using gated average power meter

PSD: ANSI C63.10 Section 11.10.2 Method PKPSD (peak PSD)

Radiated emissions restricted frequency bands: ANSI C63.10 Section 11.12.1 & Clause 13

Conducted emissions in restricted frequency bands: ANSI C63.10 Section 11.12.2

Band-edge: ANSI C63.10 Section 11.12.2.4 & Clause 13: Peak Measurement

Band-edge: ANSI C63.10 Section 11.12.2.5 & Clause 13: Average Measurement

AC Power Line Conducted Emissions: ANSI C63.10 Section 6.2

Radiated emissions non-restricted frequency bands ANSI C63.10 Section 11.11 & Clause 13

Radiated Spurious Emissions Below 30MHz: ANSI C63.10 Section 6.4 & 13

NOTE: For all conducted antenna port tests for Beamforming, same test procedures from HDR normal modes were applied.

8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

| TEST EQUIPMENT LIST | | | | |
|--|-------------------------------|------------------------------|---|-------------|
| Description | Manufacturer | Model | ID Num | Cal Due |
| Antenna, Horn 1-18GHz | ETS-Lindgren | 3117 | 200784 | 2027-03-31 |
| RF Filter Box, 1-18GHz | UL-FR1 | RATS 1.0 | 168534 | 2026-02-28 |
| EMI Test Receiver | Rohde & Schwarz | ESW44 | 223462 | 2026-02-28 |
| Antenna, Horn 1-18GHz | ETS-Lindgren | 3117 | 226672 | 2026-02-28 |
| RF Filter Box, 1-18GHz | UL-FR1 | Frankenstein | 231876 | 2026-04-30 |
| EMI Test Receiver | Rohde & Schwarz | ESW44 | 223459 | 2026-02-27 |
| Antenna, Horn 1-18GHz | ETS-Lindgren | 3117 | 200784 | 2026-07-27 |
| RF Filter Box, 1-18GHz | UL-FR1 | Frankenstein | 168534 | 2026-02-28 |
| EMI Test Receiver | Rohde & Schwarz | ESW44 | 223462 | 2026-02-28 |
| Antenna, Horn 1-18GHz | ETS-Lindgren | 3117 | 222740 | 2026-09-29 |
| RF Filter Box, 1-18GHz | UL-FR1 | Frankenstein | 171389 | 2026-03-30 |
| EMI Test Receiver | Rohde & Schwarz | ESW44 | 201497 | 2026-02-28 |
| Antenna, Horn 1-18GHz | ETS-Lindgren | 3117 | 222741 | 2026-09-30 |
| RF Filter Box, 1-18GHz | UL-FR1 | Frankenstein | 217521 | 2025-08-31 |
| EMI Test Receiver | Rohde & Schwarz | ESW44 | 223461 | 2026-02-16 |
| Antenna, Broadband Hybrid, 3m & 10m | Sunol Sciences Corp. | JB3 | 85150 | 2025-12-30 |
| Link File, Port 0, 9KHz-1GHz path loss | UL-FR1 | Port 0 Factors | 208807 | 2026-01-31 |
| Antenna, Horn 18 to 26.5GHz | A.R.A. | MWH-1826/B | 172353 | 2026-08-31 |
| Antenna, Passive Loop 100KHz - 30MHz | ELECTRO-METRICS | EM-6872 | 170015 | 2026-09-30 |
| Antenna, Passive Loop 30Hz - 1MHz | ELECTRO-METRICS | EM-6871 | 170013 | 2026-09-30 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | N9030A | Keysight Technologies Inc | 80397 | 2026-01-31 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | N9030A | Keysight Technologies Inc | 125179 | 2026-02-28 |
| Conducted Switch Box | UL-FR1 | CSB | 245782 | 2025-07-31* |
| Conducted Switch Box | UL-FR1 | CSB | 245781 | 2026-04-30 |
| Power Meter, P-series single channel | Keysight Technologies Inc | N1911A | 90715 | 2026-01-31 |
| Power Sensor, P - series, 50MHz to 18GHz, Wideband | Keysight Technologies Inc | N1921A | 81319 | 2026-01-31 |
| Power Meter, P-series single channel | Keysight Technologies Inc | N1911A | 90718 | 2026-01-31 |
| Power Sensor, P - series, 50MHz to 18GHz, Wideband | Keysight Technologies Inc | N1921A | 90419 | 2026-01-31 |
| AC Line Conducted | | | | |
| Description | Manufacturer | Model | ID Num | Cal Due |
| EMI Test Receiver 9kHz-7GHz | Rohde & Schwarz | ESR | 171646 | 2026-02-28 |
| LISN for Conducted Emissions CISPR-16 | FISCHER CUSTOM COMMUNICATIONS | FCC-LISN-50/250-25-2-01-480V | 175765 | 2026-01-31 |
| Transient Limiter | TE | TBFL1 | 207996 | 2026-09-30 |
| UL AUTOMATION SOFTWARE | | | | |
| Radiated Software | UL | UL EMC | May 1, 2023, Ver 9.5, August 31 2024 Ver 9.5 | |
| Conducted Software | UL | UL EMC | Ver 9.5 Jan 09, 2023 | |
| AC Line Conducted Software | UL | UL EMC | Ver 9.5, Mar 3, 2023 | |

*Testing is completed before equipment calibration due date.

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

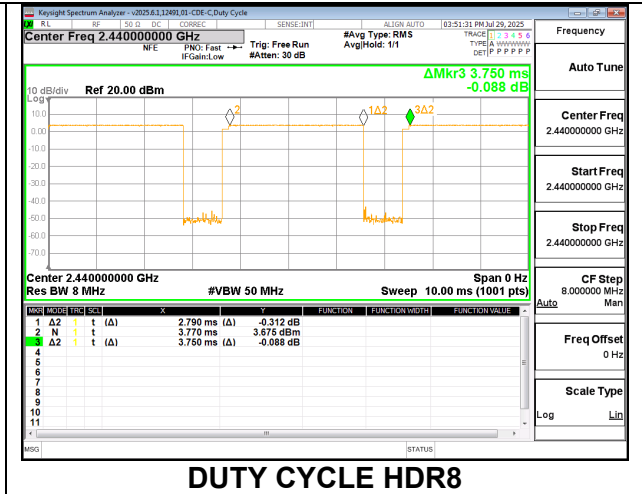
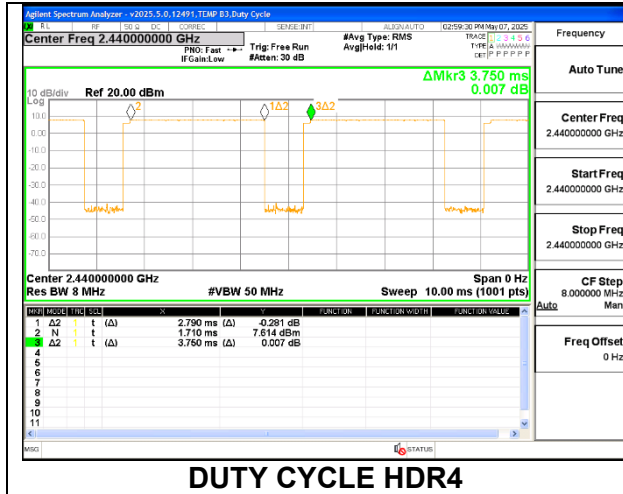
ANSI C63.10, Section 11.6: Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

| Mode | ON Time T (msec) | Period (msec) | Duty Cycle x (linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) |
|--------------------|------------------------|------------------|-----------------------------|----------------------|---|-----------------------------|
| 2.4GHz Band | | | | | | |
| HDR4 | 2.790 | 3.750 | 0.744 | 74.40 | 1.28 | 0.358 |
| HDR8 | 2.790 | 3.750 | 0.744 | 74.40 | 1.28 | 0.358 |

Note: DCCF is the same for both 1TX and 2TX.

DUTY CYCLE PLOTS



9.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

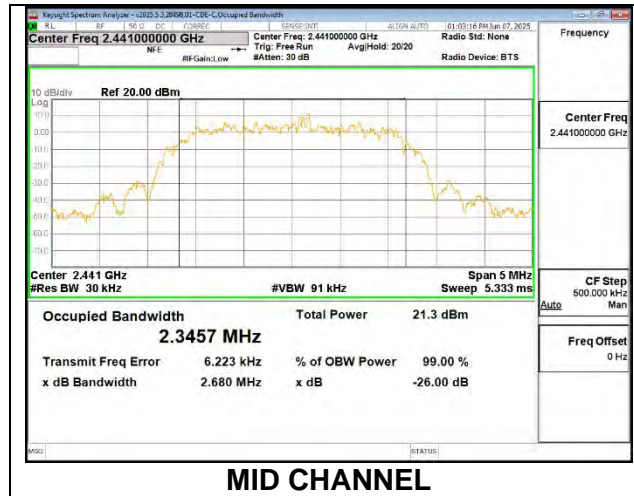
RESULTS

Only High-Power modes results are reported; it covers all Low Power modes. Only Mid channel plot is reported to show the analyzer's settings.

9.2.1. HIGH POWER HDR (HDR4)

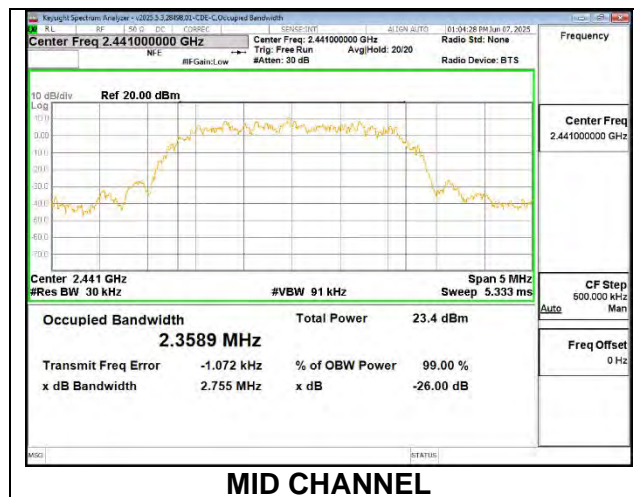
ANT 2

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 2404 | 2.3843 |
| Middle | 2441 | 2.3457 |
| High | 2476 | 2.3858 |



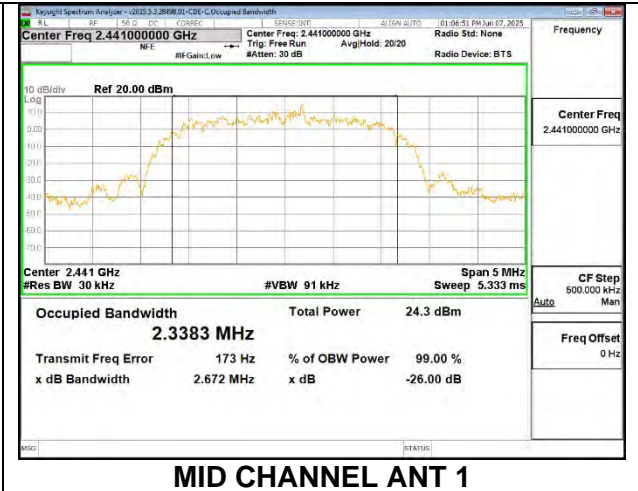
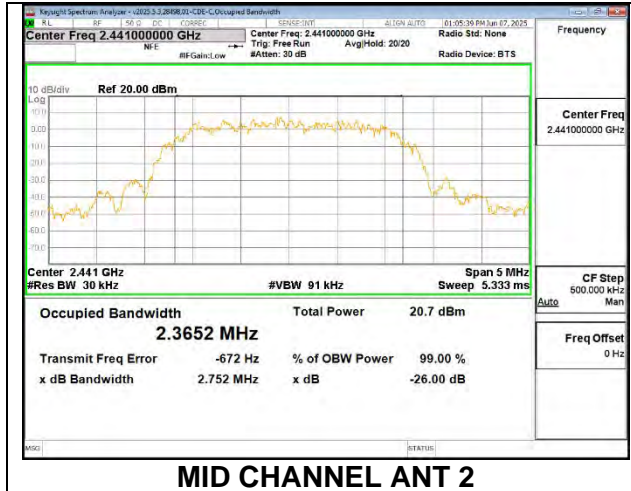
ANT 1

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 2404 | 2.3507 |
| Middle | 2441 | 2.3589 |
| High | 2476 | 2.3739 |



9.2.2. HIGH POWER HDR TXBF (HDR4)

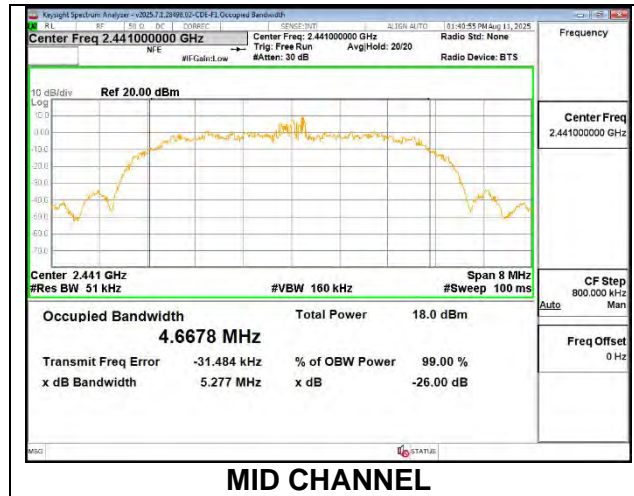
| Channel | Frequency (MHz) | 99% Bandwidth ANT 2 (MHz) | 99% Bandwidth ANT 1 (MHz) |
|---------|-----------------|---------------------------|---------------------------|
| Low | 2404 | 2.3556 | 2.3434 |
| Middle | 2441 | 2.3652 | 2.3383 |
| High | 2476 | 2.3777 | 2.3613 |



9.2.3. HIGH POWER HDR (HDR8)

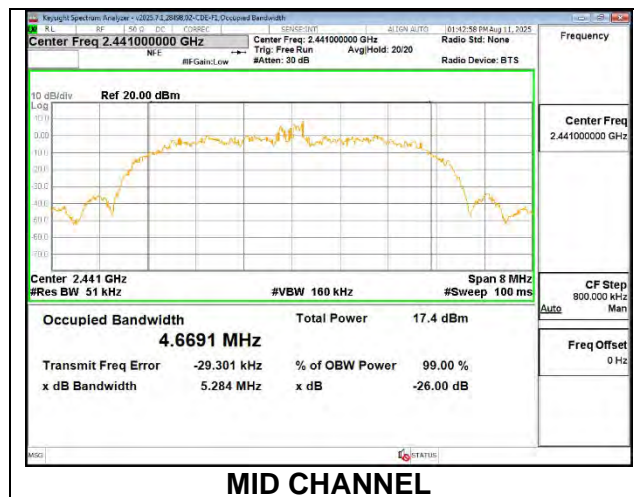
ANT 2

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 2404 | 4.6638 |
| Middle | 2441 | 4.6678 |
| High | 2476 | 4.6667 |



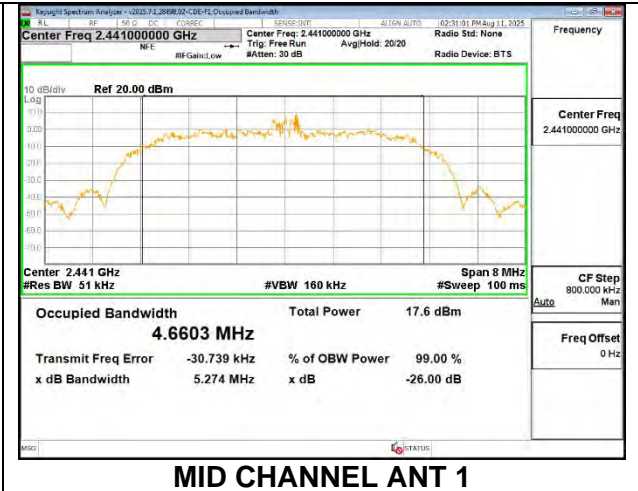
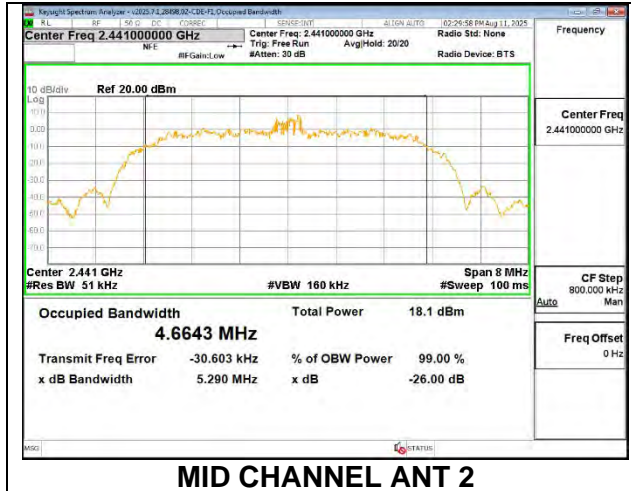
ANT 1

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 2404 | 4.6524 |
| Middle | 2441 | 4.6691 |
| High | 2476 | 4.6488 |



9.2.4. HIGH POWER HDR TXBF (HDR8)

| Channel | Frequency (MHz) | 99% Bandwidth ANT 2 (MHz) | 99% Bandwidth ANT 1 (MHz) |
|---------|-----------------|---------------------------|---------------------------|
| Low | 2404 | 4.6732 | 4.6561 |
| Middle | 2441 | 4.6643 | 4.6603 |
| High | 2476 | 4.6732 | 4.6701 |



9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 5.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

The 6dB bandwidth was measured for the narrowest bandwidth mode, HDR4, to demonstrate compliance with the minimum required bandwidth of 500 kHz. Other modes were not tested as their bandwidth is greater than the HDR4 mode, as demonstrated by the 99% bandwidth measurements performed on all modes.

Only Mid channel plot is reported to show the analyzer's settings.

Only High-Power modes results are reported; it covers all Low Power modes.

9.3.1. HIGH POWER HDR (HDR4)

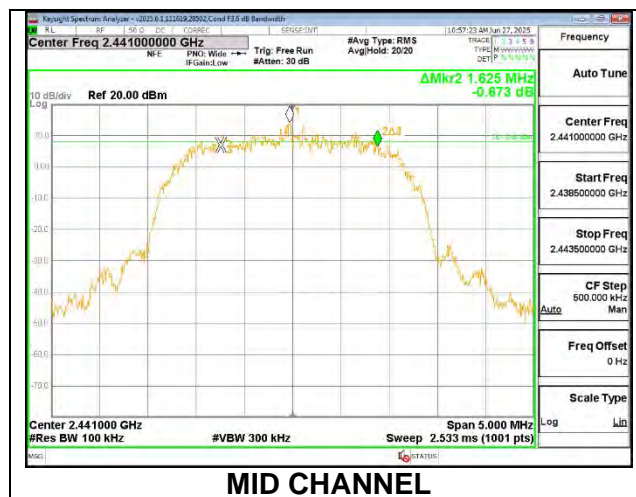
ANT 2

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) |
|---------|-----------------|----------------------|---------------------|
| Low | 2404 | 1.845 | 0.5 |
| Middle | 2441 | 2.170 | 0.5 |
| High | 2476 | 1.655 | 0.5 |



ANT 1

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) |
|---------|-----------------|----------------------|---------------------|
| Low | 2404 | 2.130 | 0.5 |
| Middle | 2441 | 1.625 | 0.5 |
| High | 2476 | 1.465 | 0.5 |



9.4. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

RSS-247 5.4 (d)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

Measurements were performed using a wideband RF power meter.

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband power sensor. Peak output power was read directly from the power meter.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are correlated for power and PSD due to the device supporting Beamforming mode. The directional gains are as follows:

| Band (GHz) | ANT 2 Gain (dBi) | ANT 1 Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|------------|------------------|------------------|--|--|
| 2.4 | -1.10 | -3.10 | -1.99 | 0.97 |

Directional Gain Calculation:

ANSI C63.10-2020 section 14.6.3

Uncorrelated directional gain= $10 \cdot \text{LOG}((10^{(\text{Ant}2/10)} + 10^{(\text{Ant}1/10)})/2)$

Correlated directional Gain= $10 \cdot \text{LOG}(((10^{(\text{Ant}2/20)} + 10^{(\text{Ant}1/20)})^2)/2)$

Sample Calculation:

ANT 2=-1.10, ANT 1=-3.10

Uncorrelated Antenna gain= $10 \log [(10^{(-1.10/10)}+10^{(-3.10/10)})/2]= -1.99 \text{ dBi}$

Correlated Antenna gain= $10 \log [(10^{(-1.10/20)}+10^{(-3.10/20)})^2/2]= .97 \text{ dBi}$

RESULTS

9.4.1. HIGH POWER HDR (HDR4)

ANT 2

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|-----------------------------|----------------|----------------|
| Low | 2404 | 16.02 | 30 | -13.98 |
| Middle | 2441 | 16.04 | 30 | -13.96 |
| High | 2476 | 16.02 | 30 | -13.98 |

ANT 1

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|-----------------------------|----------------|----------------|
| Low | 2404 | 16.47 | 30 | -13.53 |
| Middle | 2441 | 16.47 | 30 | -13.53 |
| High | 2476 | 16.51 | 30 | -13.49 |

9.4.2. HIGH POWER HDR TXBF (HDR4)

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading ANT 2 (dBm) | Peak Power Reading ANT 1 (dBm) | Total Corr'd Power (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|--------------------------------------|--------------------------------------|-----------------------------------|----------------|----------------|
| Low | 2404 | 16 | 16.48 | 19.26 | 30.00 | -10.74 |
| Middle | 2441 | 16 | 16.51 | 19.27 | 30.00 | -10.73 |
| High | 2476 | 16.02 | 16.48 | 19.27 | 30.00 | -10.73 |

9.4.3. HIGH POWER HDR (HDR8)

ANT 2

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|-----------------------------|----------------|----------------|
| Low | 2404 | 16.05 | 30 | -13.95 |
| Middle | 2441 | 16.00 | 30 | -14.00 |
| High | 2476 | 15.97 | 30 | -14.03 |

ANT 1

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|-----------------------------|----------------|----------------|
| Low | 2404 | 16.53 | 30 | -13.47 |
| Middle | 2441 | 16.60 | 30 | -13.40 |
| High | 2476 | 16.60 | 30 | -13.40 |

9.4.4. HIGH POWER HDR TXBF (HDR8)

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-06-05 |

| Channel | Frequency (MHz) | Peak Power Reading ANT 2 (dBm) | Peak Power Reading ANT 1 (dBm) | Total Corr'd Power (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|--------------------------------------|--------------------------------------|-----------------------------------|----------------|----------------|
| Low | 2404 | 16.03 | 16.52 | 19.29 | 30.00 | -10.71 |
| Middle | 2441 | 15.95 | 16.56 | 19.28 | 30.00 | -10.72 |
| High | 2476 | 16.05 | 16.46 | 19.27 | 30.00 | -10.73 |

9.4.5. LOW POWER HDR (HDR4)**ANT 2**

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|--------------------------------|----------------|----------------|
| Low | 2404 | 7.29 | 30 | -22.71 |
| Middle | 2441 | 7.35 | 30 | -22.65 |
| High | 2476 | 7.30 | 30 | -22.70 |

ANT 1

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|--------------------------------|----------------|----------------|
| Low | 2404 | 8.95 | 30 | -21.05 |
| Middle | 2441 | 8.61 | 30 | -21.39 |
| High | 2476 | 8.76 | 30 | -21.24 |

9.4.6. LOW POWER HDR TXBF (HDR4)

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-08-13 |

| Channel | Frequency (MHz) | Peak Power Reading ANT 2 (dBm) | Peak Power Reading ANT 1 (dBm) | Total Corr'd Power (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|---|---|-----------------------------------|----------------|----------------|
| Low | 2404 | 7.27 | 8.28 | 10.81 | 30.00 | -19.19 |
| Middle | 2441 | 7.33 | 8.36 | 10.89 | 30.00 | -19.11 |
| High | 2476 | 7.26 | 8.22 | 10.78 | 30.00 | -19.22 |

9.4.7. LOW POWER HDR (HDR8)

ANT 2

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|-----------------------------|----------------|----------------|
| Low | 2404 | 7.24 | 30 | -22.76 |
| Middle | 2441 | 7.31 | 30 | -22.69 |
| High | 2476 | 7.25 | 30 | -22.75 |

ANT 1

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|-----------------------------|----------------|----------------|
| Low | 2404 | 8.62 | 30 | -21.38 |
| Middle | 2441 | 8.75 | 30 | -21.25 |
| High | 2476 | 8.88 | 30 | -21.12 |

9.4.8. LOW POWER HDR TXBF (HDR8)

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Peak Power Reading ANT 2 (dBm) | Peak Power Reading ANT 1 (dBm) | Total Corr'd Power (dBm) | Limit (dBm) | Margin (dB) |
|---------|--------------------|--------------------------------------|--------------------------------------|-----------------------------------|----------------|----------------|
| Low | 2404 | 7.17 | 8.83 | 11.09 | 30.00 | -18.91 |
| Middle | 2441 | 7.28 | 8.52 | 10.95 | 30.00 | -19.05 |
| High | 2476 | 7.24 | 8.77 | 11.08 | 30.00 | -18.92 |

9.5. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements were performed using a wideband RF power meter.

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband average power sensor. Gated average output power was read directly from power meter.

RESULTS

9.5.1. HIGH POWER HDR (HDR4)

ANT 2

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | AV power (dBm) |
|----------------|----------------------------|---------------------------|
| Low | 2404 | 13.25 |
| Middle | 2441 | 13.22 |
| High | 2476 | 13.24 |

ANT 1

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | AV power (dBm) |
|----------------|----------------------------|---------------------------|
| Low | 2404 | 13.73 |
| Middle | 2441 | 13.73 |
| High | 2476 | 13.75 |

9.5.2. HIGH POWER HDR TXBF (HDR4)

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Average Power ANT 2 (dBm) | Average Power ANT 1 (dBm) | Total Power (dBm) |
|----------------|----------------------------|--|--|------------------------------|
| Low | 2404 | 13.24 | 13.75 | 16.51 |
| Middle | 2441 | 13.23 | 13.73 | 16.50 |
| High | 2476 | 13.25 | 13.74 | 16.51 |

9.5.3. HIGH POWER HDR (HDR8)

ANT 2

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | AV power (dBm) |
|----------------|----------------------------|---------------------------|
| Low | 2404 | 13.24 |
| Middle | 2441 | 13.25 |
| High | 2476 | 13.22 |

ANT 1

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | AV power (dBm) |
|----------------|----------------------------|---------------------------|
| Low | 2404 | 13.71 |
| Middle | 2441 | 13.72 |
| High | 2476 | 13.75 |

9.5.4. HIGH POWER HDR TXBF (HDR8)

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | Average Power ANT 2 (dBm) | Average Power ANT 1 (dBm) | Total Power (dBm) |
|----------------|----------------------------|--|--|------------------------------|
| Low | 2404 | 13.25 | 13.72 | 16.50 |
| Middle | 2441 | 13.22 | 13.71 | 16.48 |
| High | 2476 | 13.23 | 13.72 | 16.49 |

9.5.6. LOW POWER HDR (HDR4)

ANT 2

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | AV power (dBm) |
|----------------|----------------------------|---------------------------|
| Low | 2404 | 4.45 |
| Middle | 2441 | 4.46 |
| High | 2476 | 4.48 |

ANT 1

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | AV power (dBm) |
|----------------|----------------------------|---------------------------|
| Low | 2404 | 5.49 |
| Middle | 2441 | 5.5 |
| High | 2476 | 5.47 |

9.5.7. LOW POWER HDR TXBF (HDR4)

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-08-13 |

| Channel | Frequency (MHz) | Average Power ANT 2 (dBm) | Average Power ANT 1 (dBm) | Total Power (dBm) |
|----------------|----------------------------|--|--|------------------------------|
| Low | 2404 | 4.46 | 5.42 | 7.98 |
| Middle | 2441 | 4.45 | 5.48 | 8.01 |
| High | 2476 | 4.50 | 5.39 | 7.98 |

9.5.8. LOW POWER HDR (HDR8)

ANT 2

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | AV power (dBm) |
|----------------|----------------------------|---------------------------|
| Low | 2404 | 4.49 |
| Middle | 2441 | 4.5 |
| High | 2476 | 4.48 |

ANT 1

| | |
|-------------------|------------|
| Tested By: | BY 32480 |
| Date: | 2025-07-18 |

| Channel | Frequency (MHz) | AV power (dBm) |
|----------------|----------------------------|---------------------------|
| Low | 2404 | 5.48 |
| Middle | 2441 | 5.5 |
| High | 2476 | 5.49 |

9.5.9. LOW POWER HDR TXBF (HDR8)

| | |
|-------------------|-----------|
| Tested By: | BY 32480 |
| Date: | 7/18/2025 |

| Channel | Frequency (MHz) | Average Power ANT 2 (dBm) | Average Power ANT 1 (dBm) | Total Power (dBm) |
|----------------|----------------------------|--|--|------------------------------|
| Low | 2404 | 4.49 | 5.46 | 8.01 |
| Middle | 2441 | 4.50 | 5.46 | 8.02 |
| High | 2476 | 4.50 | 5.48 | 8.03 |

9.6. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

RSS-247 (5.2) (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

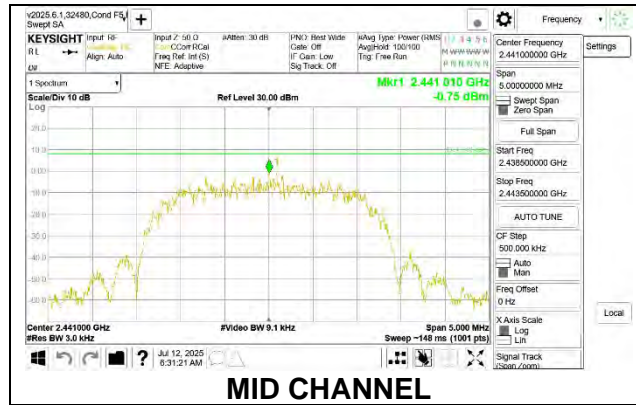
RESULTS

Only High-Power modes results are reported; it covers all Low Power modes.

9.6.1. HIGH POWER HDR (HDR4)

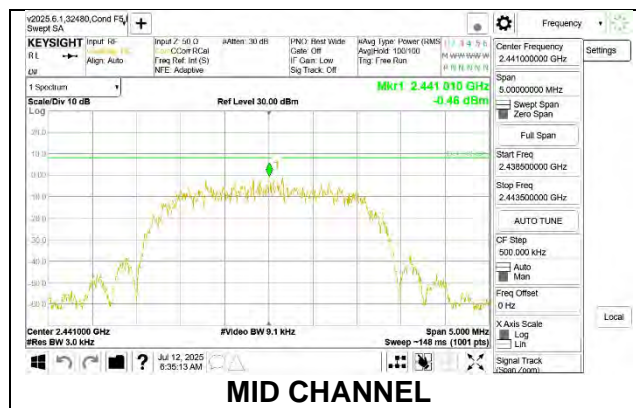
ANT 2

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Margin (dB) |
|---------|-----------------|----------------|------------------|-------------|
| Low | 2404 | -1.050 | 8 | -9.05 |
| Middle | 2441 | -0.750 | 8 | -8.75 |
| High | 2476 | -0.970 | 8 | -8.97 |



ANT 1

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Margin (dB) |
|---------|-----------------|----------------|------------------|-------------|
| Low | 2404 | -0.720 | 8 | -8.72 |
| Middle | 2441 | -0.460 | 8 | -8.46 |
| High | 2478 | -0.450 | 8 | -8.45 |

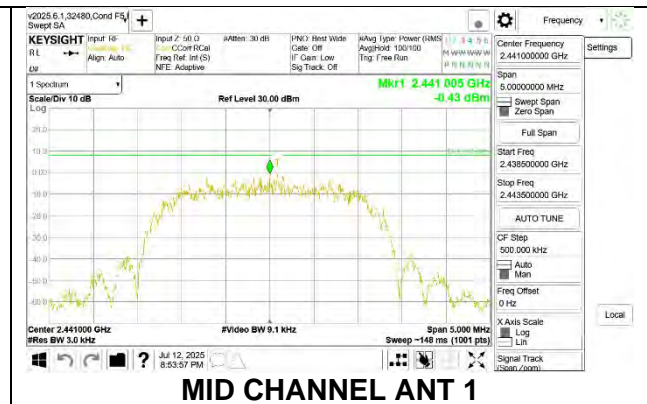
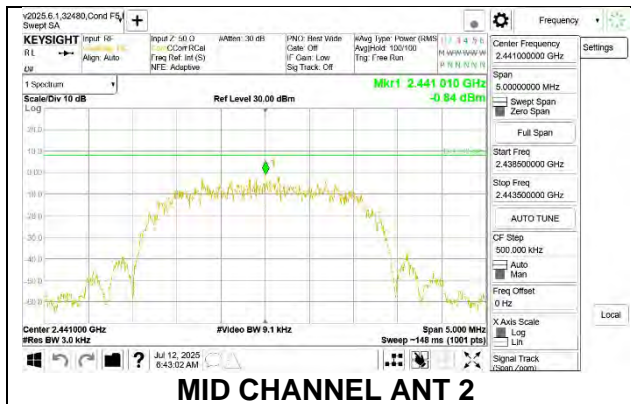


9.6.2. HIGH POWER HDR TXBF (HDR4)

Note: Test procedures and setting are the same as HDR normal mode.

PSD Results

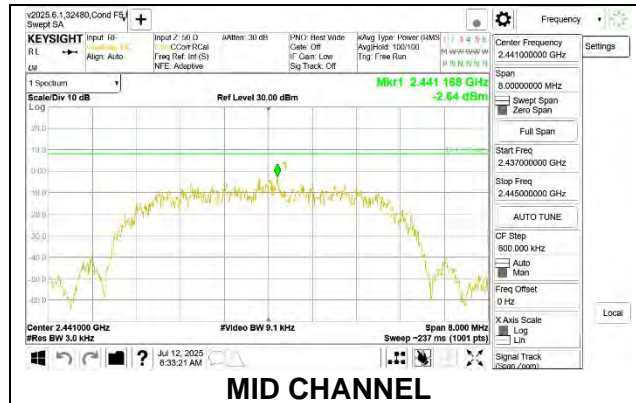
| Channel | Frequency (MHz) | ANT 2 Meas (dBm/ 3kHz) | ANT 1 Meas (dBm/ 3kHz) | Total Corr'd PSD (dBm/ 3kHz) | Limit (dBm/ 3kHz) | Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|--|-------------------------|----------------|
| Low | 2404 | -0.950 | -0.460 | 2.31 | 8.0 | -5.7 |
| Mid | 2441 | -0.840 | -0.430 | 2.38 | 8.0 | -5.6 |
| High | 2476 | -0.960 | -0.890 | 2.09 | 8.0 | -5.9 |



9.6.3. HIGH POWER HDR (HDR8)

ANT 2

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Margin (dB) |
|---------|-----------------|----------------|------------------|-------------|
| Low | 2404 | -2.690 | 8 | -10.69 |
| Middle | 2441 | -2.640 | 8 | -10.64 |
| High | 2476 | -2.590 | 8 | -10.59 |



ANT 1

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Margin (dB) |
|---------|-----------------|----------------|------------------|-------------|
| Low | 2404 | -2.420 | 8 | -10.42 |
| Middle | 2441 | -2.270 | 8 | -10.27 |
| High | 2476 | -2.350 | 8 | -10.35 |

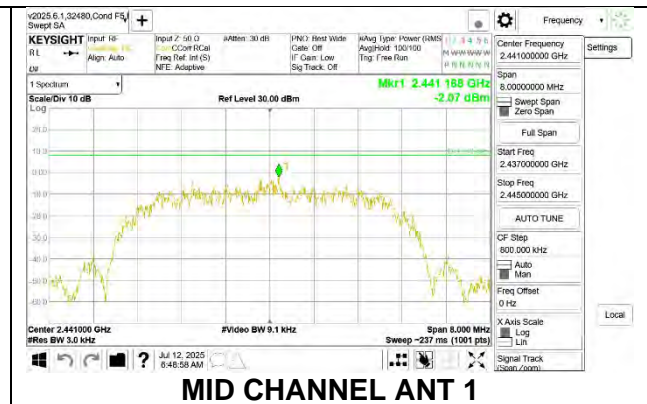
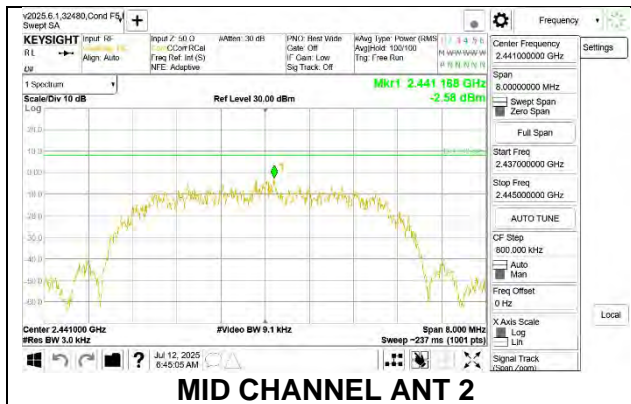


9.6.4. HIGH POWER HDR TXBF (HDR8)

Note: Test procedures and setting are the same as HDR normal mode.

PSD Results

| Channel | Frequency (MHz) | ANT 2 Meas (dBm/ 3kHz) | ANT 1 Meas (dBm/ 3kHz) | Total Corr'd PSD (dBm/ 3kHz) | Limit (dBm/ 3kHz) | Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|--|-------------------------|----------------|
| Low | 2404 | -2.070 | -2.160 | 0.90 | 8.0 | -7.1 |
| Mid | 2441 | -2.580 | -2.070 | 0.69 | 8.0 | -7.3 |
| High | 2476 | -2.600 | -2.160 | 0.64 | 8.0 | -7.4 |



9.7. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

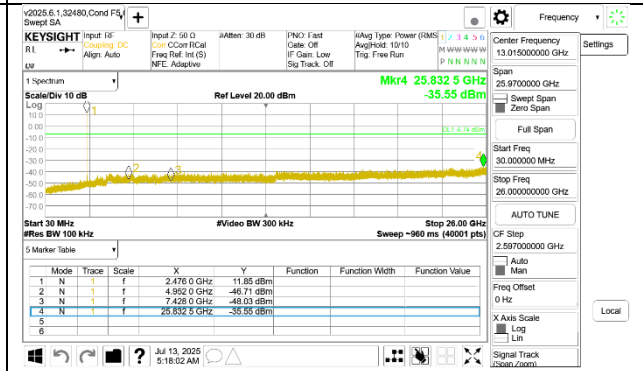
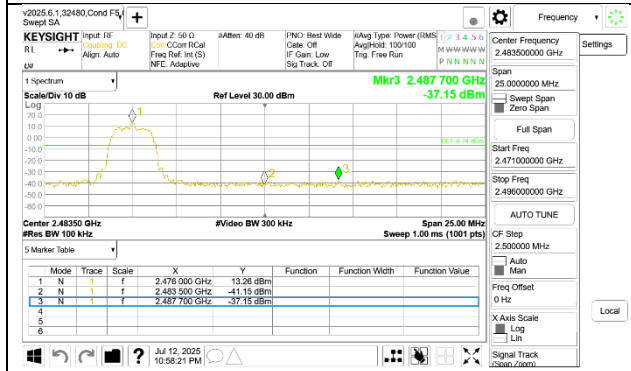
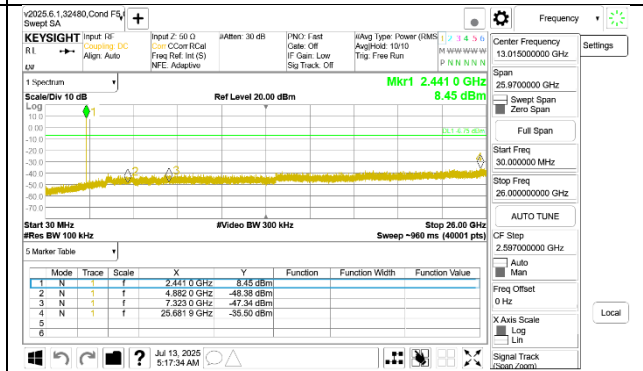
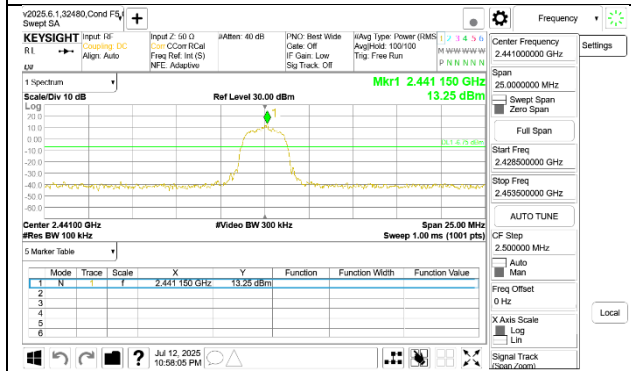
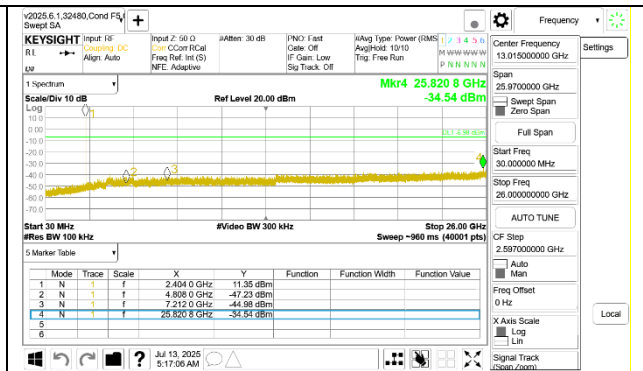
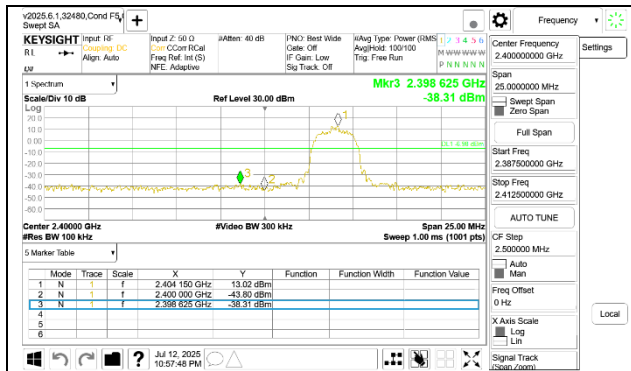
RSS-247 5.5

Output power was measured based on the use of a peak measurement; therefore, the required attenuation is 20 dBc.

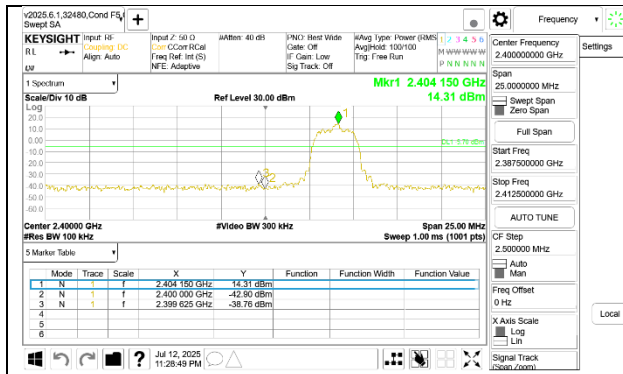
RESULTS

9.7.1. HIGH POWER HDR (HDR4)

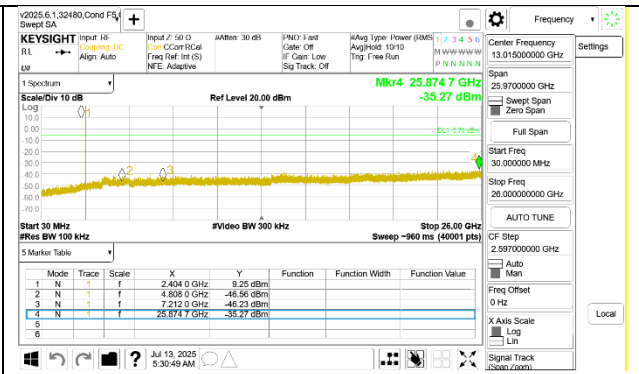
ANT 2



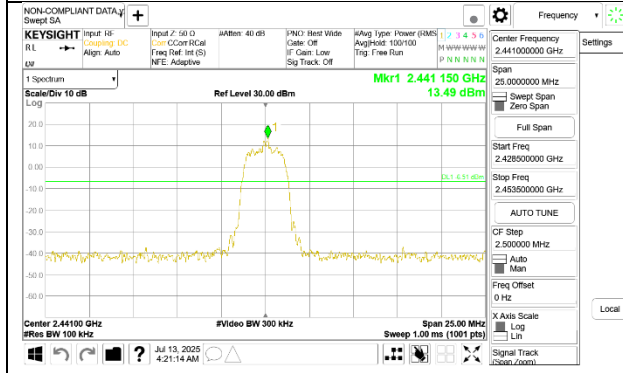
ANT 1



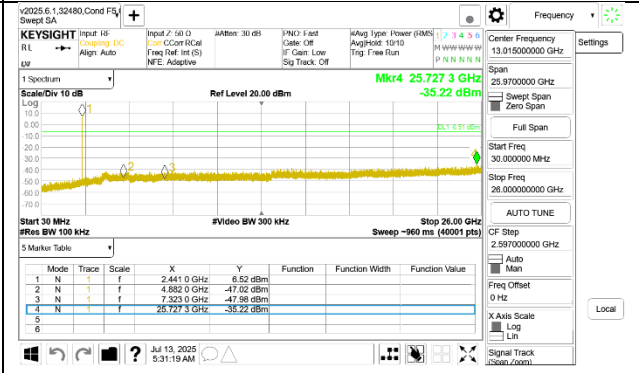
LOW CHANNEL BANDEDGE



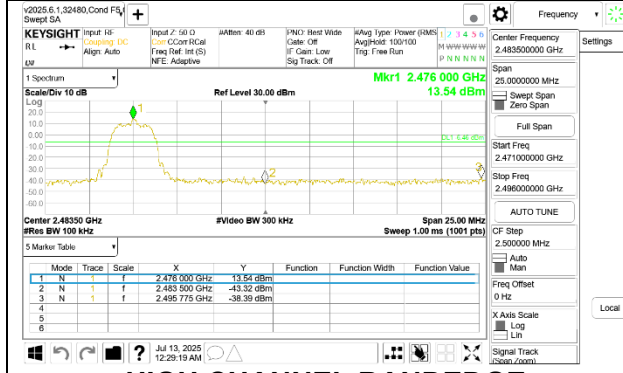
OUT-OF-BAND LOW CHANNEL



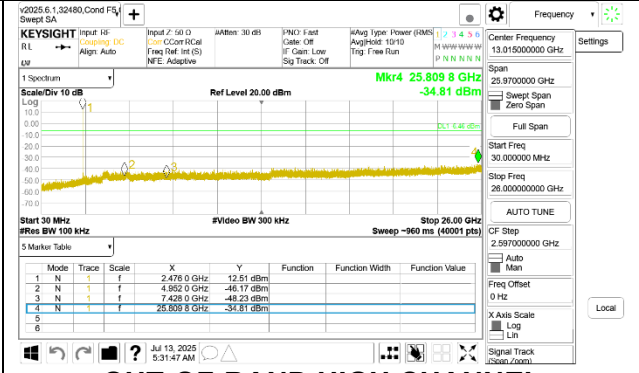
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



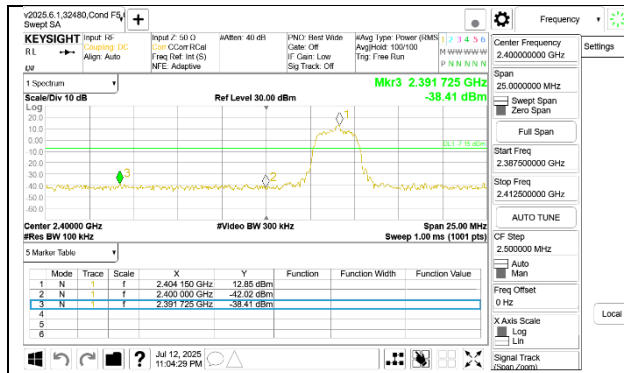
HIGH CHANNEL BANDEDGE



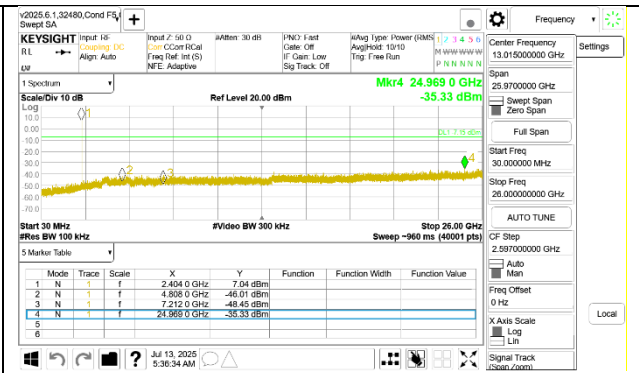
OUT-OF-BAND HIGH CHANNEL

9.7.2. HIGH POWER HDR TXBF (HDR4)

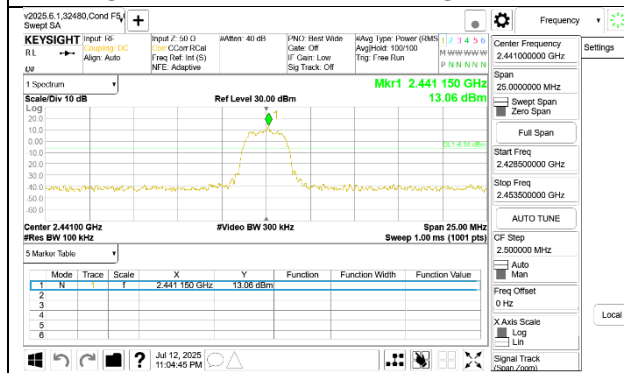
ANT 2



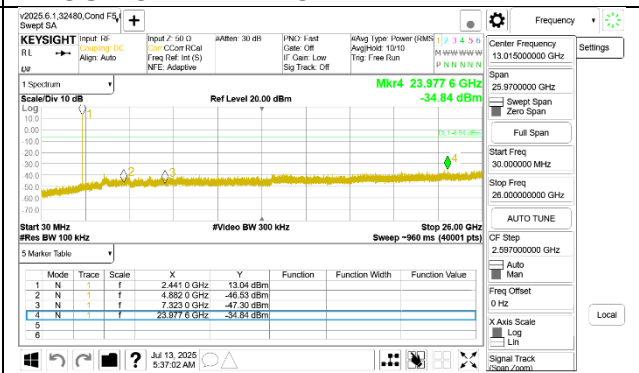
LOW CHANNEL BANDEDGE ANT 2



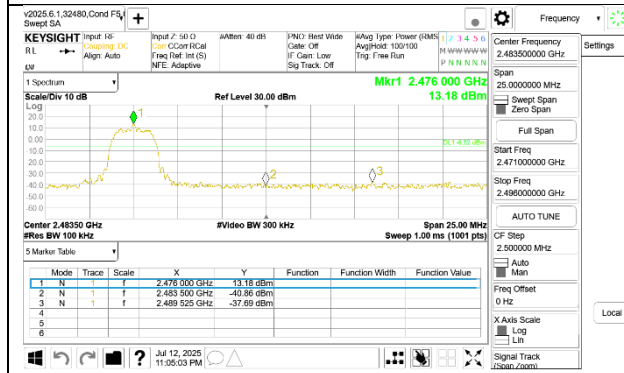
OUT-OF-BAND LOW CHANNEL ANT 2



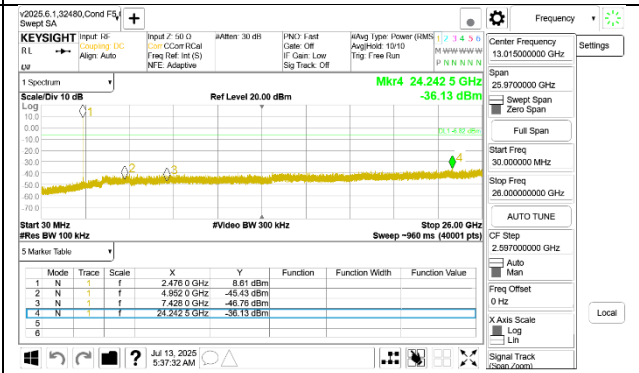
IN-BAND REFERENCE LEVEL ANT 2



OUT-OF-BAND MID CHANNEL ANT 2

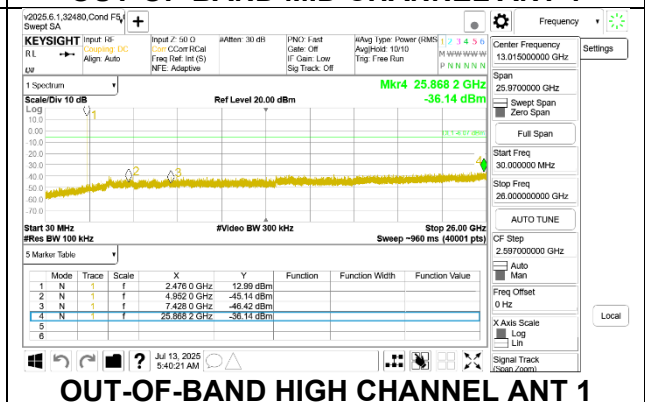
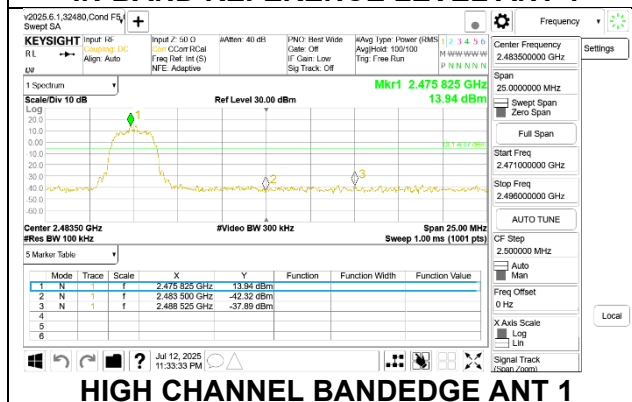
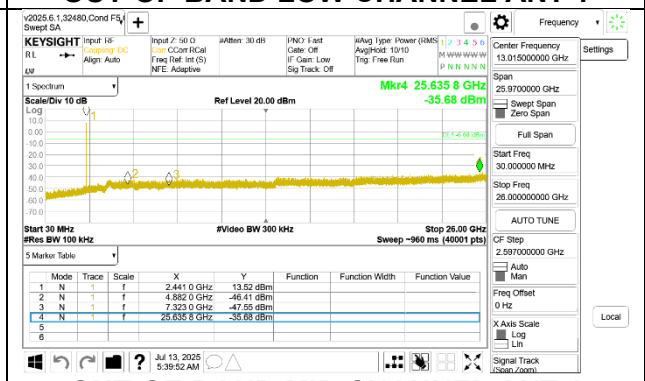
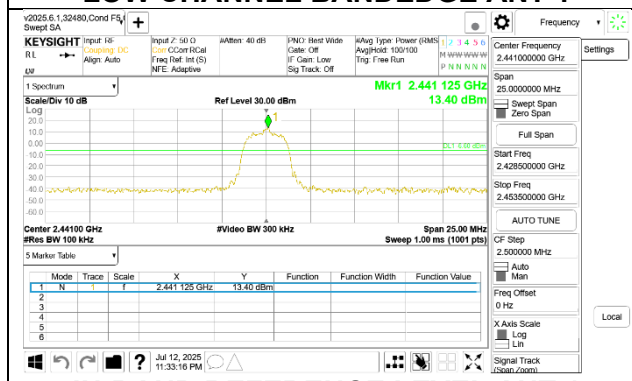
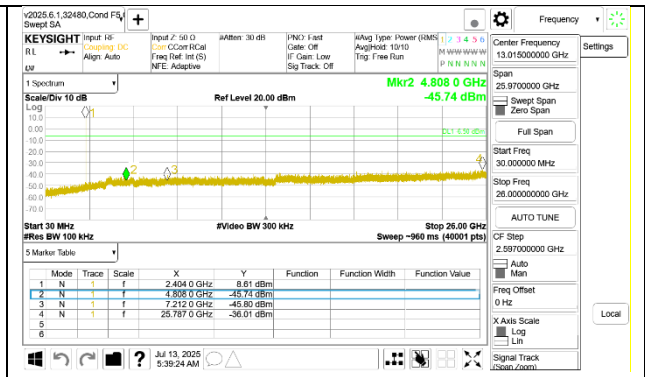
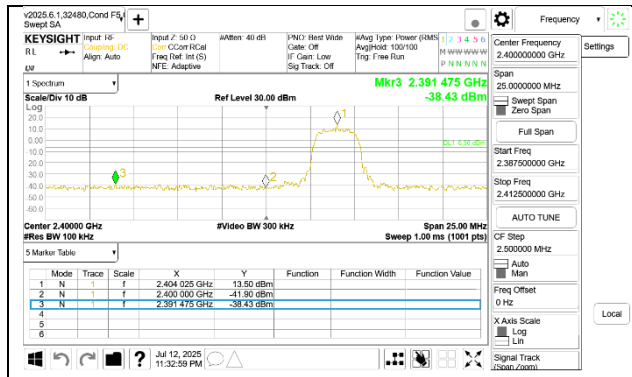


HIGH CHANNEL BANDEDGE ANT 2



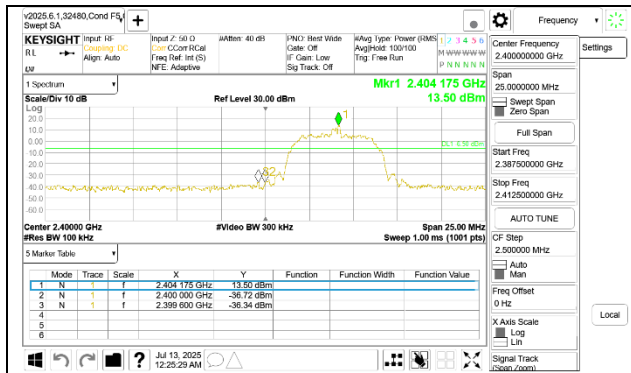
OUT-OF-BAND HIGH CHANNEL ANT 2

ANT 1

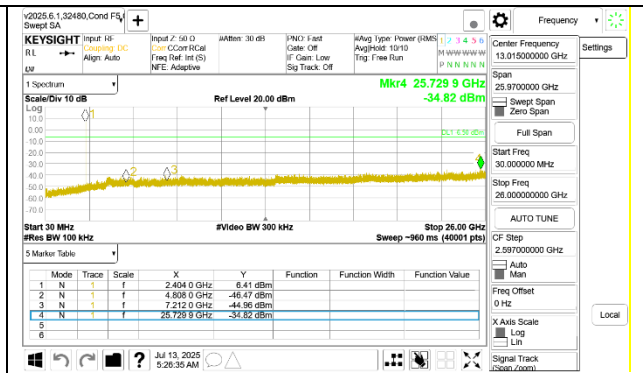


9.7.3. HIGH POWER HDR (HDR8)

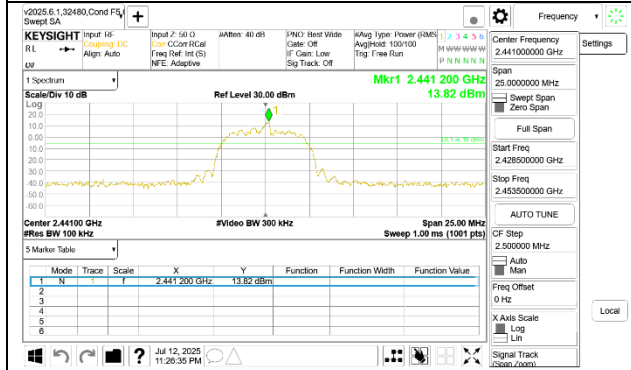
ANT 2



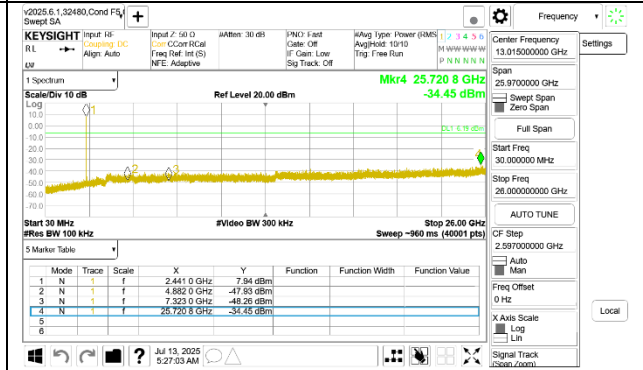
LOW CHANNEL BANDEDGE



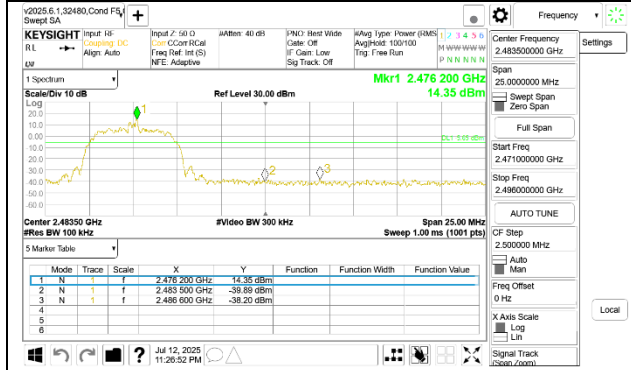
OUT-OF-BAND LOW CHANNEL



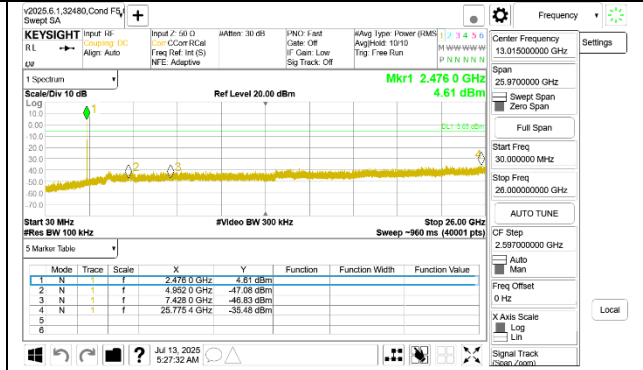
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

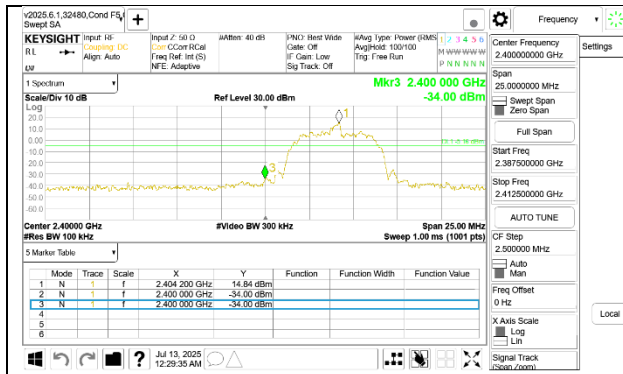


HIGH CHANNEL BANDEDGE

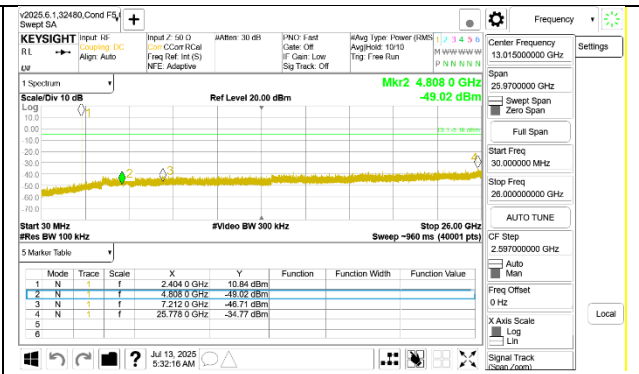


OUT-OF-BAND HIGH CHANNEL

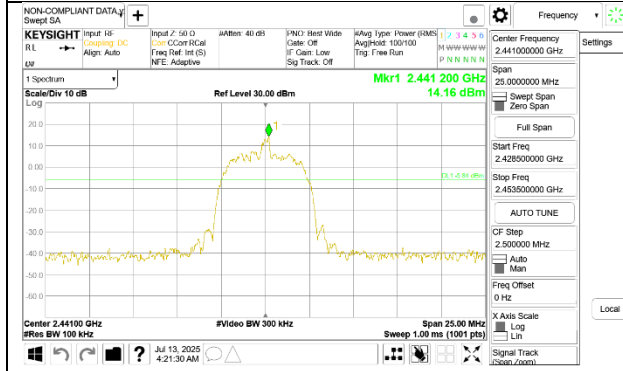
ANT 1



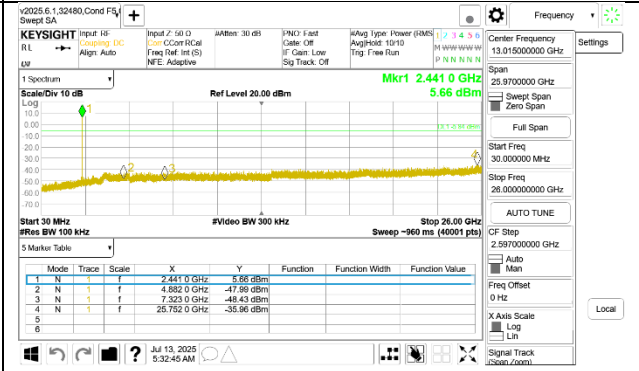
LOW CHANNEL BANDEDGE



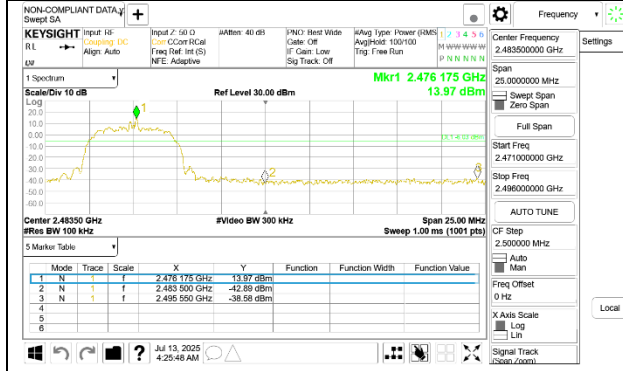
OUT-OF-BAND LOW CHANNEL



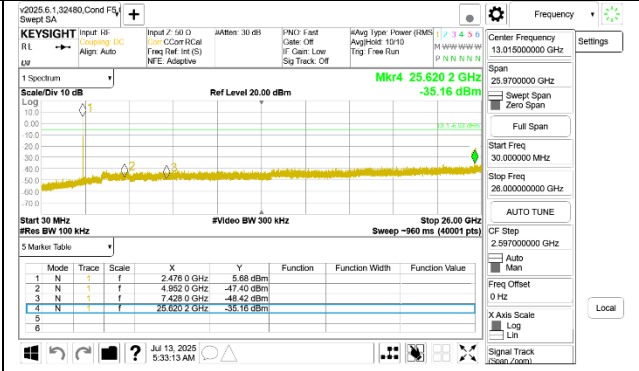
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



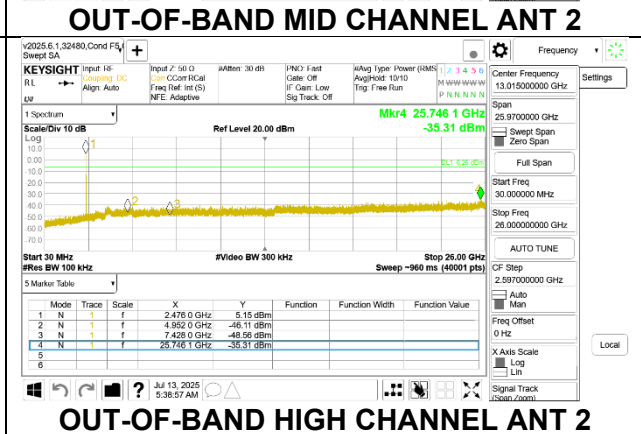
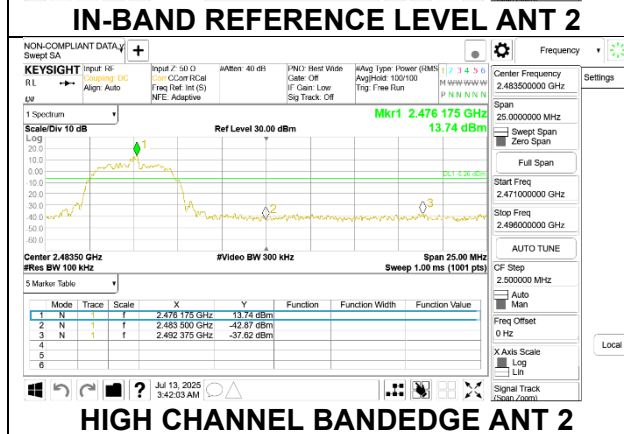
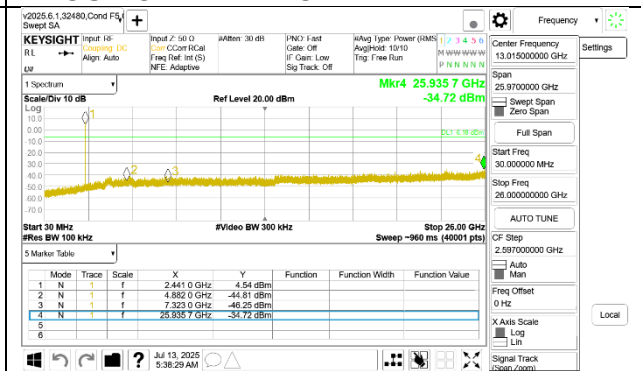
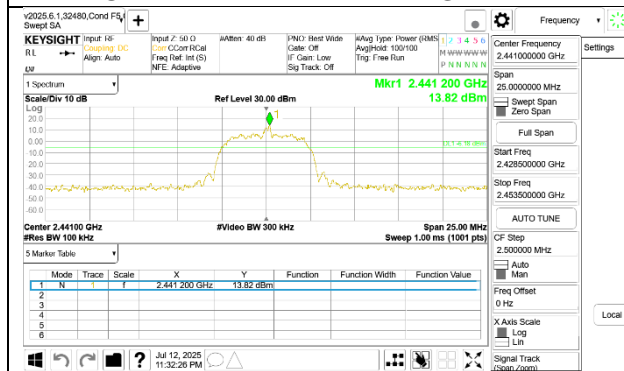
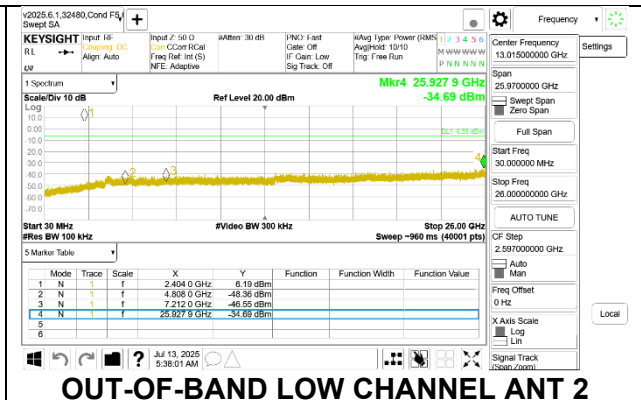
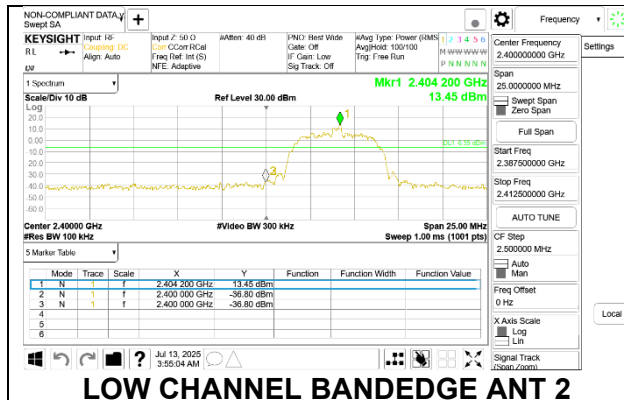
HIGH CHANNEL BANDEDGE



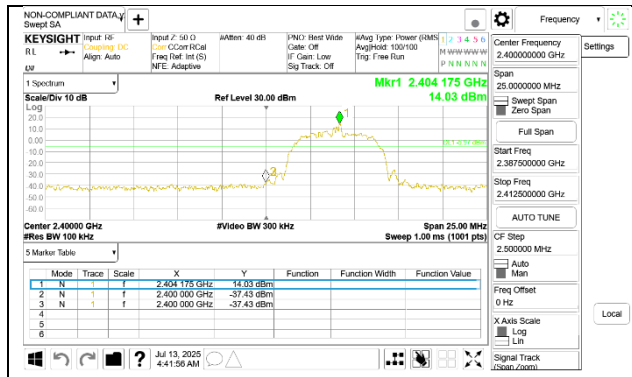
OUT-OF-BAND HIGH CHANNEL

9.7.4. HIGH POWER HDR TXBF (HDR8)

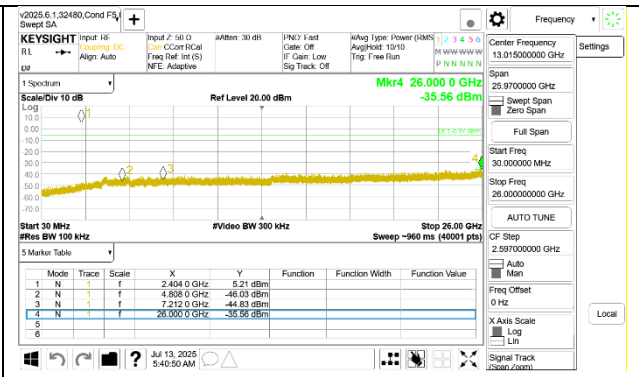
ANT 2



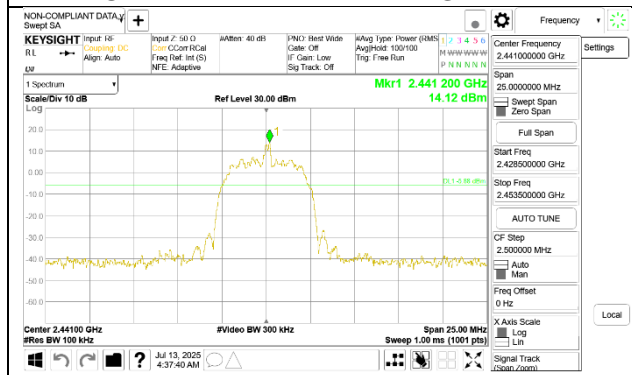
ANT 1



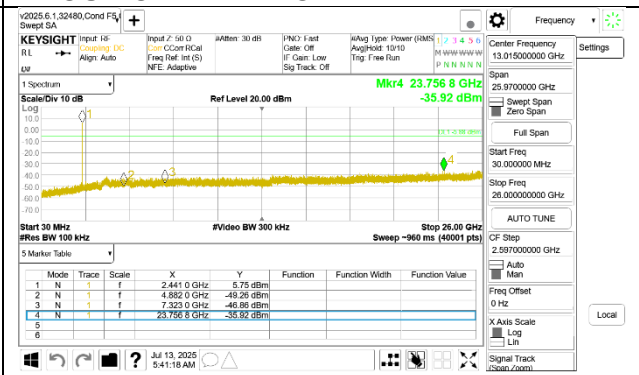
LOW CHANNEL BANDEDGE ANT 1



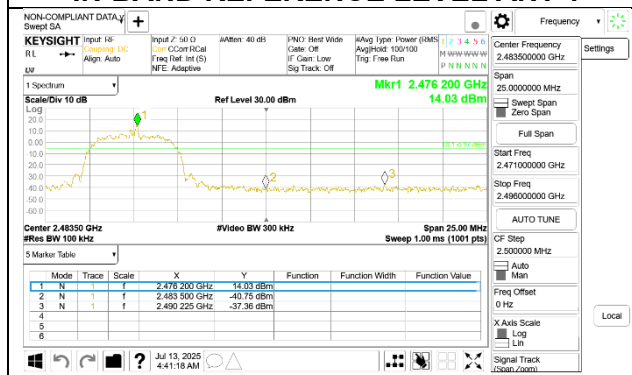
OUT-OF-BAND LOW CHANNEL ANT 1



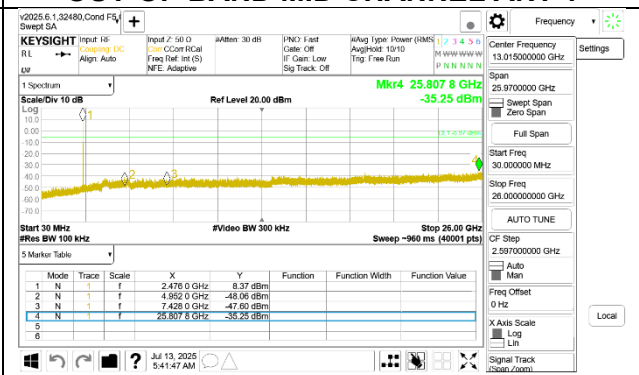
IN-BAND REFERENCE LEVEL ANT 1



OUT-OF-BAND MID CHANNEL ANT 1



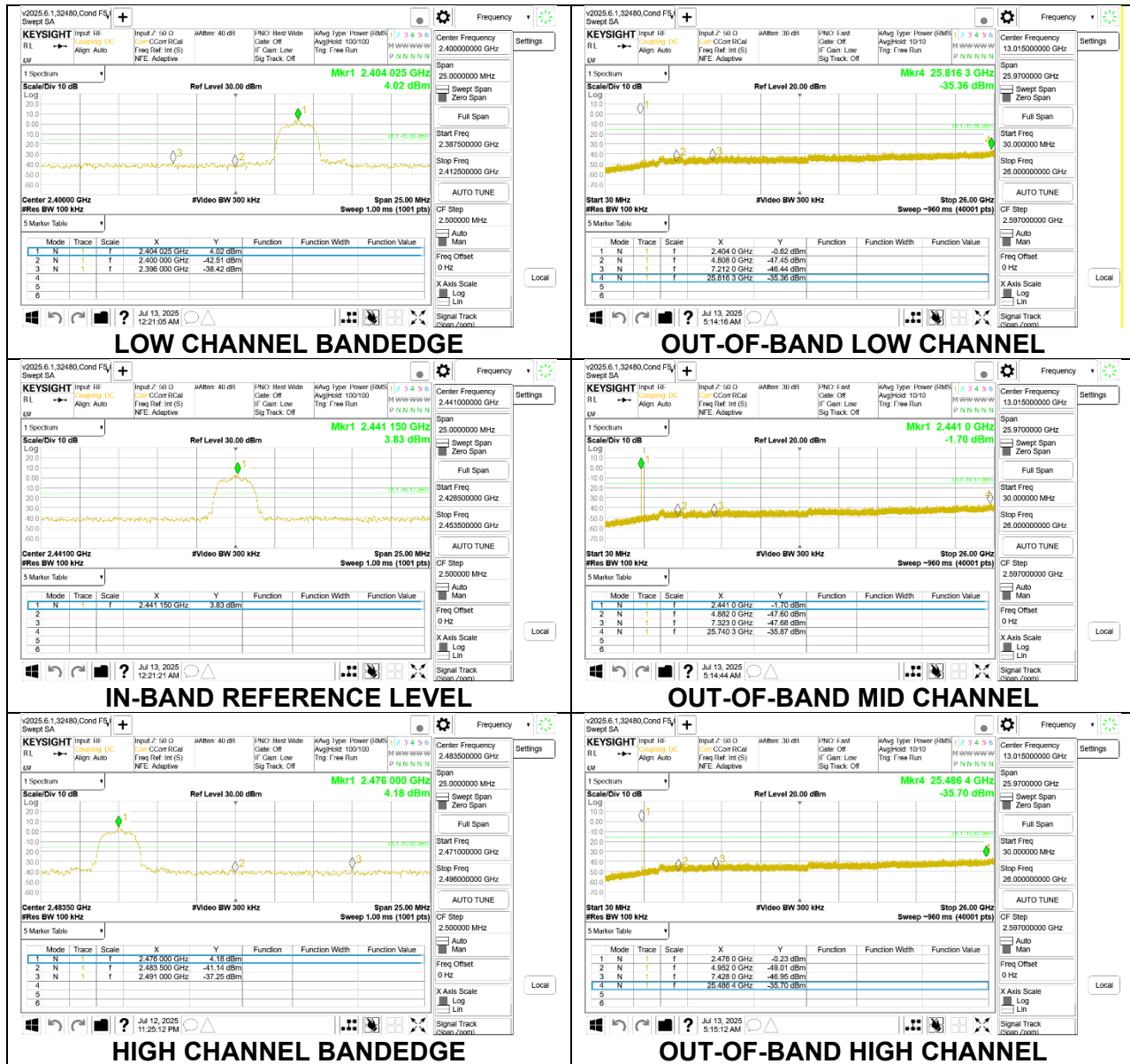
HIGH CHANNEL BANDEDGE ANT 1



OUT-OF-BAND HIGH CHANNEL ANT 1

9.7.6. LOW POWER HDR (HDR4)

ANT 2



ANT 1

