# RF Test Report

## For

| | |
|---|---|
| **Applicant Name:** | **TECNO MOBILE LIMITED** |
| Address: | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| EUT Name: | Laptop Computer |
| Brand Name: | TECNO |
| Model Number: | T15AA |
| Series Model Number: | Refer to section 2 |

## Issued By

| | |
|---|---|
| **Company Name:** | **BTF Testing Lab (Shenzhen) Co., Ltd.** |
| Address: | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| Report Number: | BTF230918R00501 |
| Test Standards: | 47 CFR Part 15.247 |
| Test Conclusion: | Pass |
| FCC ID: | 2ADYY-T15AA |
| Test Date: | 2023-08-25 to 2023-09-18 |
| Date of Issue: | 2023-09-19 |
| Prepared By: | Chris Liu / Project Engineer |
| Date: | 2023-09-19 |
| Approved By: | Ryan.CJ / EMC Manager |
| Date: | 2023-09-19 |

*Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.*

| Revision History | | |
|---|---|---|
| Version | Issue Date | Revisions Content |
| R_V0 | 2023-09-19 | Original |
| | | |
| *Note: Once the revision has been made, then previous versions reports are invalid.* | | |



BTF Testing Lab (Shenzhen) Co., Ltd.
F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

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BTF Testing Lab (Shenzhen) Co., Ltd.
F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

# 1 Introduction

## 1.1 Identification of Testing Laboratory

| | |
|---|---|
| Company Name: | BTF Testing Lab (Shenzhen) Co., Ltd. |
| Address: | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| Phone Number: | +86-0755-23146130 |
| Fax Number: | +86-0755-23146130 |

## 1.2 Identification of the Responsible Testing Location

| | |
|---|---|
| Company Name: | BTF Testing Lab (Shenzhen) Co., Ltd. |
| Address: | F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China |
| Phone Number: | +86-0755-23146130 |
| Fax Number: | +86-0755-23146130 |
| FCC Registration Number: | 518915 |
| Designation Number: | CN1330 |

## 1.3 Announcement

(1) The test report reference to the report template version v0.
(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
(3) The test report is invalid if there is any evidence and/or falsification.
(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

# 2 Product Information

## 2.1 Application Information

| | |
|---|---|
| Company Name: | TECNO MOBILE LIMITED |
| Address: | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |

## 2.2 Manufacturer Information

| | |
|---|---|
| Company Name: | TECNO MOBILE LIMITED |
| Address: | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |

## 2.3 Factory Information

| | |
|---|---|
| Company Name: | GUANGXI SHANCHAUN TECHNOLOGY CO LTD |
| Address: | The Second Floor of Plant C01, Plant C02, Plant C03 and Plant D03 Guangxi Sannuo Smart Industrial Park, No.3, Gaoke Road, Beihai Industrial Park, BEIHAI, 536000 Guangxi, P.R.China |

## 2.4 General Description of Equipment under Test (EUT)

| | |
|---|---|
| EUT Name: | Laptop Computer |
| Test Model Number: | T15AA |
| Series Model Number: | N/A |
| Software Version: | Win 11 home |
| Hardware Version: | N156EAL01_MB_V11 |

## 2.5 Technical Information

| | |
|---|---|
| Power Supply: | Li-ion Battery: 156<br>Rated Voltage: 11.55V<br>Rated Capacity: 6060mAh/70Wh<br>Typical Capacity: 6160mAh/71.14Wh<br>Limited Charge Voltage: 13.2V |
| Power Adaptor: | Adapter1:TCW-A61S-65W<br>Input: 100-240V~50/60Hz 1.5A Max<br>Output: PD: 5V⎓3A 9V⎓3A 12V⎓3A 15V⎓3A 20V⎓3.25A<br>PPS:3.3-11V⎓5A Max<br>Adapter2: DS65-2<br>Input: 100-240V~50/60Hz 1.5A Max<br>Output: 5.0V⎓3.0A 9.0V⎓3.0A 12.0V⎓3.0A 15.0V⎓3.0A 20.0V⎓3.25A 65.0W |
| Operation Frequency: | 2402MHz to 2480MHz |
| Number of Channels: | 40 |
| Modulation Type: | GFSK |
| Antenna Type: | Integral Antenna |
| Antenna Gain#: | 3.49 dBi |

Note:

#: The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.



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# 3 Summary of Test Results

## 3.1 Test Standards

| |
|---|
| The tests were performed according to following standards:<br>**47 CFR Part 15.247:** Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz |

## 3.2 Uncertainty of Test

| Item | Measurement Uncertainty |
|---|---|
| Conducted Emission (150 kHz-30 MHz) | ±2.64dB |
| The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |

## 3.3 Summary of Test Result

| Item | Standard | Requirement | Result |
|---|---|---|---|
| Antenna requirement | 47 CFR Part 15.247 | Part 15.203 | Pass |
| Conducted Emission at AC power line | 47 CFR Part 15.247 | 47 CFR 15.207(a) | Pass |
| Occupied Bandwidth | 47 CFR Part 15.247 | 47 CFR 15.247(a)(2) | Pass |
| Maximum Conducted Output Power | 47 CFR Part 15.247 | 47 CFR 15.247(b)(3) | Pass |
| Power Spectral Density | 47 CFR Part 15.247 | 47 CFR 15.247(e) | Pass |
| Emissions in non-restricted frequency bands | 47 CFR Part 15.247 | 47 CFR 15.247(d) | Pass |
| Band edge emissions (Radiated) | 47 CFR Part 15.247 | 47 CFR 15.247(d) | Pass |
| Emissions in restricted frequency bands (below 1GHz) | 47 CFR Part 15.247 | 47 CFR 15.247(d) | Pass |
| Emissions in restricted frequency bands (above 1GHz) | 47 CFR Part 15.247 | 47 CFR 15.247(d) | Pass |



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# 4 Test Configuration

## 4.1 Test Equipment List

| Conducted Emission at AC power line | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Pulse Limiter | SCHWARZBECK | VTSD 9561-F | 00953 | 2022-11-24 | 2023-11-23 |
| Coaxial Switcher | SCHWARZBECK | CX210 | CX210 | 2022-11-24 | 2023-11-23 |
| V-LISN | SCHWARZBECK | NSLK 8127 | 01073 | 2022-11-24 | 2023-11-23 |
| LISN | AFJ | LS16/110VAC | 16010020076 | 2023-02-23 | 2024-02-22 |
| EMI Receiver | ROHDE&SCHWARZ | ESCI3 | 101422 | 2022-11-24 | 2023-11-23 |

| Occupied Bandwidth | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| RFTest software | / | V1.00 | / | / | / |
| RF Control Unit | Techy | TR1029-1 | / | 2022-11-24 | 2023-11-23 |
| RF Sensor Unit | Techy | TR1029-2 | / | 2022-11-24 | 2023-11-23 |
| Programmable constant temperature and humidity box | ZZCKONG | ZZ-K02A | 20210928007 | 2022-11-24 | 2023-11-23 |
| Adjustable Direct Current Regulated Power Supply | Dongguan Tongmen Electronic Technology Co., LTD | etm-6050c | 20211026123 | 2022-11-24 | 2023-11-23 |
| WIDEBAND RADIO COMMNUNICATION TESTER | Rohde & Schwarz | CMW500 | 161997 | 2022-11-24 | 2023-11-23 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | MY50410020 | 2022-11-24 | 2023-11-23 |

| Maximum Conducted Output Power | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| RFTest software | / | V1.00 | / | / | / |
| RF Control Unit | Techy | TR1029-1 | / | 2022-11-24 | 2023-11-23 |
| RF Sensor Unit | Techy | TR1029-2 | / | 2022-11-24 | 2023-11-23 |
| Programmable constant temperature and humidity box | ZZCKONG | ZZ-K02A | 20210928007 | 2022-11-24 | 2023-11-23 |
| Adjustable Direct Current Regulated Power Supply | Dongguan Tongmen Electronic Technology Co., LTD | etm-6050c | 20211026123 | 2022-11-24 | 2023-11-23 |
| WIDEBAND RADIO COMMNUNICATION TESTER | Rohde & Schwarz | CMW500 | 161997 | 2022-11-24 | 2023-11-23 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | MY50410020 | 2022-11-24 | 2023-11-23 |

| Power Spectral Density | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| RFTest software | / | V1.00 | / | / | / |



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| | | | | | |
|---|---|---|---|---|---|
| RF Control Unit | Techy | TR1029-1 | / | 2022-11-24 | 2023-11-23 |
| RF Sensor Unit | Techy | TR1029-2 | / | 2022-11-24 | 2023-11-23 |
| Programmable constant temperature and humidity box | ZZCKONG | ZZ-K02A | 20210928007 | 2022-11-24 | 2023-11-23 |
| Adjustable Direct Current Regulated Power Supply | Dongguan Tongmen Electronic Technology Co., LTD | etm-6050c | 20211026123 | 2022-11-24 | 2023-11-23 |
| WIDEBAND RADIO COMMNUNICATION TESTER | Rohde & Schwarz | CMW500 | 161997 | 2022-11-24 | 2023-11-23 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | MY50410020 | 2022-11-24 | 2023-11-23 |

| **Emissions in non-restricted frequency bands** | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| RFTest software | / | V1.00 | / | / | / |
| RF Control Unit | Techy | TR1029-1 | / | 2022-11-24 | 2023-11-23 |
| RF Sensor Unit | Techy | TR1029-2 | / | 2022-11-24 | 2023-11-23 |
| Programmable constant temperature and humidity box | ZZCKONG | ZZ-K02A | 20210928007 | 2022-11-24 | 2023-11-23 |
| Adjustable Direct Current Regulated Power Supply | Dongguan Tongmen Electronic Technology Co., LTD | etm-6050c | 20211026123 | 2022-11-24 | 2023-11-23 |
| WIDEBAND RADIO COMMNUNICATION TESTER | Rohde & Schwarz | CMW500 | 161997 | 2022-11-24 | 2023-11-23 |
| MXA Signal Analyzer | KEYSIGHT | N9020A | MY50410020 | 2022-11-24 | 2023-11-23 |

| **Band edge emissions (Radiated)** | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Coaxial cable Multiflex 141 | Schwarzbeck | N/SMA 0.5m | 517386 | 2023-03-24 | 2024-03-23 |
| Preamplifier | SCHWARZBECK | BBV9744 | 00246 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-10m | 21101566 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-10m | 21101570 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-1m | 21101568 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-1m | 21101576 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-2.5m | 21101573 | 2022-11-24 | 2023-11-23 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 01157 | 2021-11-28 | 2023-11-27 |
| EMI TEST RECEIVER | ROHDE&SCHWARZ | ESCI7 | 101032 | 2022-11-24 | 2023-11-23 |
| SIGNAL ANALYZER | ROHDE&SCHWARZ | FSQ40 | 100010 | 2022-11-24 | 2023-11-23 |



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| | | | | | |
|---|---|---|---|---|---|
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Broadband Preamplilifier | SCHWARZBECK | BBV9718D | 00008 | 2023-03-24 | 2024-03-23 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 2597 | 2022-05-22 | 2024-05-21 |
| EZ_EMC | Frad | FA-03A2 RE+ | / | / | / |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Log periodic antenna | SCHWARZBECK | VULB 9168 | 01328 | 2021-11-28 | 2023-11-27 |

| Emissions in restricted frequency bands (below 1GHz) | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Coaxial cable Multiflex 141 | Schwarzbeck | N/SMA 0.5m | 517386 | 2023-03-24 | 2024-03-23 |
| Preamplifier | SCHWARZBECK | BBV9744 | 00246 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-10m | 21101566 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-10m | 21101570 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-1m | 21101568 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-1m | 21101576 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-2.5m | 21101573 | 2022-11-24 | 2023-11-23 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 01157 | 2021-11-28 | 2023-11-27 |
| EMI TEST RECEIVER | ROHDE&SCHWARZ | ESCI7 | 101032 | 2022-11-24 | 2023-11-23 |
| SIGNAL ANALYZER | ROHDE&SCHWARZ | FSQ40 | 100010 | 2022-11-24 | 2023-11-23 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Broadband Preamplilifier | SCHWARZBECK | BBV9718D | 00008 | 2023-03-24 | 2024-03-23 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 2597 | 2022-05-22 | 2024-05-21 |
| EZ_EMC | Frad | FA-03A2 RE+ | / | / | / |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Log periodic antenna | SCHWARZBECK | VULB 9168 | 01328 | 2021-11-28 | 2023-11-27 |

| Emissions in restricted frequency bands (above 1GHz) | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No** | **Inventory No** | **Cal Date** | **Cal Due Date** |
| Coaxial cable Multiflex 141 | Schwarzbeck | N/SMA 0.5m | 517386 | 2023-03-24 | 2024-03-23 |
| Preamplifier | SCHWARZBECK | BBV9744 | 00246 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-10m | 21101566 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-10m | 21101570 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF1-SMASMAM-1m | 21101568 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-1m | 21101576 | 2022-11-24 | 2023-11-23 |
| RE Cable | REBES Talent | UF2-NMNM-2.5m | 21101573 | 2022-11-24 | 2023-11-23 |



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| | | | | | |
|---|---|---|---|---|---|
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 01157 | 2021-11-28 | 2023-11-27 |
| EMI TEST RECEIVER | ROHDE&SCHWARZ | ESCI7 | 101032 | 2022-11-24 | 2023-11-23 |
| SIGNAL ANALYZER | ROHDE&SCHWARZ | FSQ40 | 100010 | 2022-11-24 | 2023-11-23 |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Broadband Preamplilifier | SCHWARZBECK | BBV9718D | 00008 | 2023-03-24 | 2024-03-23 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 2597 | 2022-05-22 | 2024-05-21 |
| EZ_EMC | Frad | FA-03A2 RE+ | / | / | / |
| POSITIONAL CONTROLLER | SKET | PCI-GPIB | / | / | / |
| Log periodic antenna | SCHWARZBECK | VULB 9168 | 01328 | 2021-11-28 | 2023-11-27 |



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## 4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

## 4.3 Test Modes

| **Operating Environment:** | |
|---|---|
| Temperature: | 25.0 °C |
| Humidity: | 56 % RH |
| Atmospheric Pressure: | 1010 mbar |
| **Test Mode:** | |
| Engineering mode: | Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 90.56%) with Fully-charged battery. |
| The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. | |



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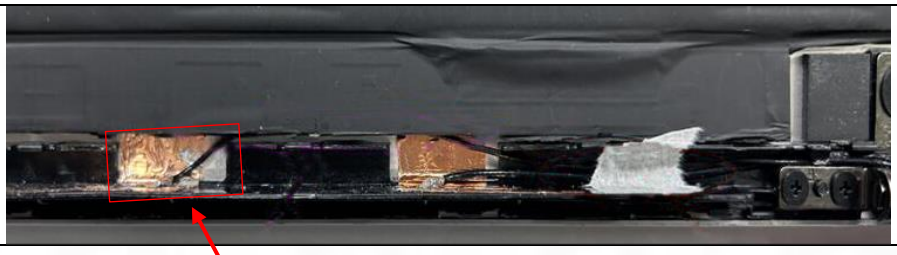
# 5 Evaluation Results (Evaluation)

## 5.1 Antenna requirement

| | |
|---|---|
| Test 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 shall be considered sufficient to comply with the provisions of this section. |

### 5.1.1 Conclusion:



# 6 Radio Spectrum Matter Test Results (RF)

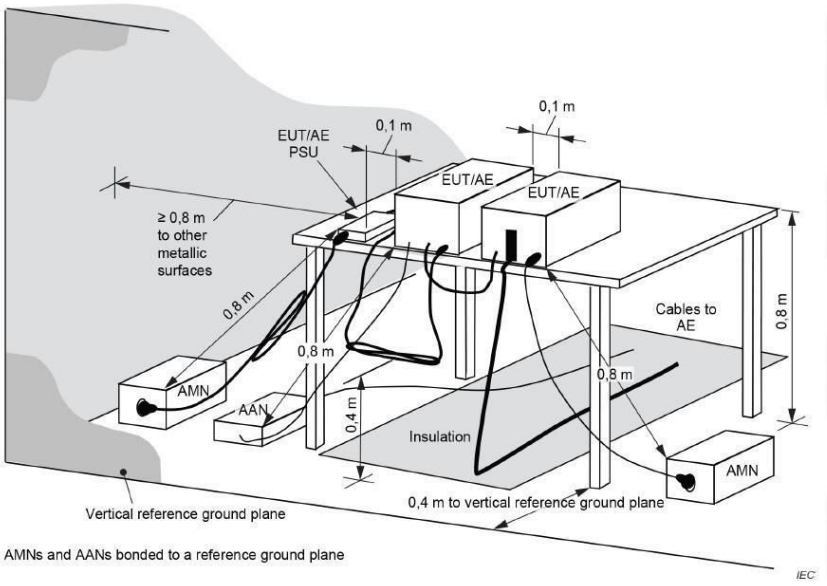
## 6.1 Conducted Emission at AC power line

| | |
|---|---|
| Test Requirement: | Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). |
| Test Method: | Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices |
| Test Limit: | Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average<br>0.15-0.5: 66 to 56* / 56 to 46*<br>0.5-5: 56 / 46<br>5-30: 60 / 50<br>*Decreases with the logarithm of the frequency. |

### 6.1.1 E.U.T. Operation:

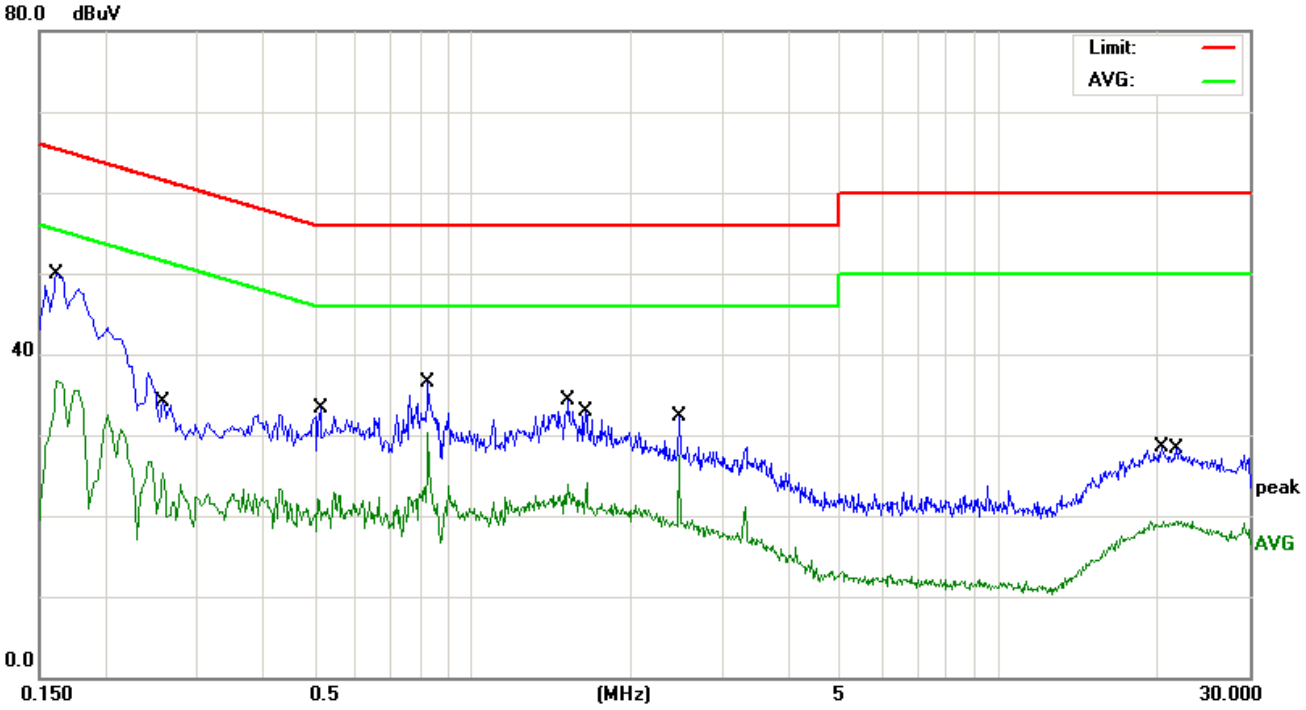
| Operating Environment: | |
|---|---|
| Temperature: | 25.2 °C |
| Humidity: | 50.5 % |
| Atmospheric Pressure: | 1010 mbar |

### 6.1.2 Test Setup Diagram:



### 6.1.3 Test Data:

Line: Line / Band: 2.4G / BW: 1 / CH: M




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | |
|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | * | 0.1620 | 39.42 | 10.45 | 49.87 | 65.36 | -15.49 | QP |
| 2 | | 0.1620 | 26.20 | 10.45 | 36.65 | 55.36 | -18.71 | AVG |
| 3 | | 0.2580 | 14.92 | 10.46 | 25.38 | 51.49 | -26.11 | AVG |
| 4 | | 0.5140 | 22.80 | 10.52 | 33.32 | 56.00 | -22.68 | QP |
| 5 | | 0.8220 | 26.03 | 10.54 | 36.57 | 56.00 | -19.43 | QP |
| 6 | | 0.8220 | 19.78 | 10.54 | 30.32 | 46.00 | -15.68 | AVG |
| 7 | | 1.5260 | 23.76 | 10.63 | 34.39 | 56.00 | -21.61 | QP |
| 8 | | 1.6460 | 13.54 | 10.65 | 24.19 | 46.00 | -21.81 | AVG |
| 9 | | 2.4700 | 16.71 | 10.71 | 27.42 | 46.00 | -18.58 | AVG |
| 10 | | 2.4739 | 21.52 | 10.71 | 32.23 | 56.00 | -23.77 | QP |
| 11 | | 20.4820 | 17.47 | 11.06 | 28.53 | 60.00 | -31.47 | QP |
| 12 | | 21.8420 | 8.28 | 11.08 | 19.36 | 50.00 | -30.64 | AVG |



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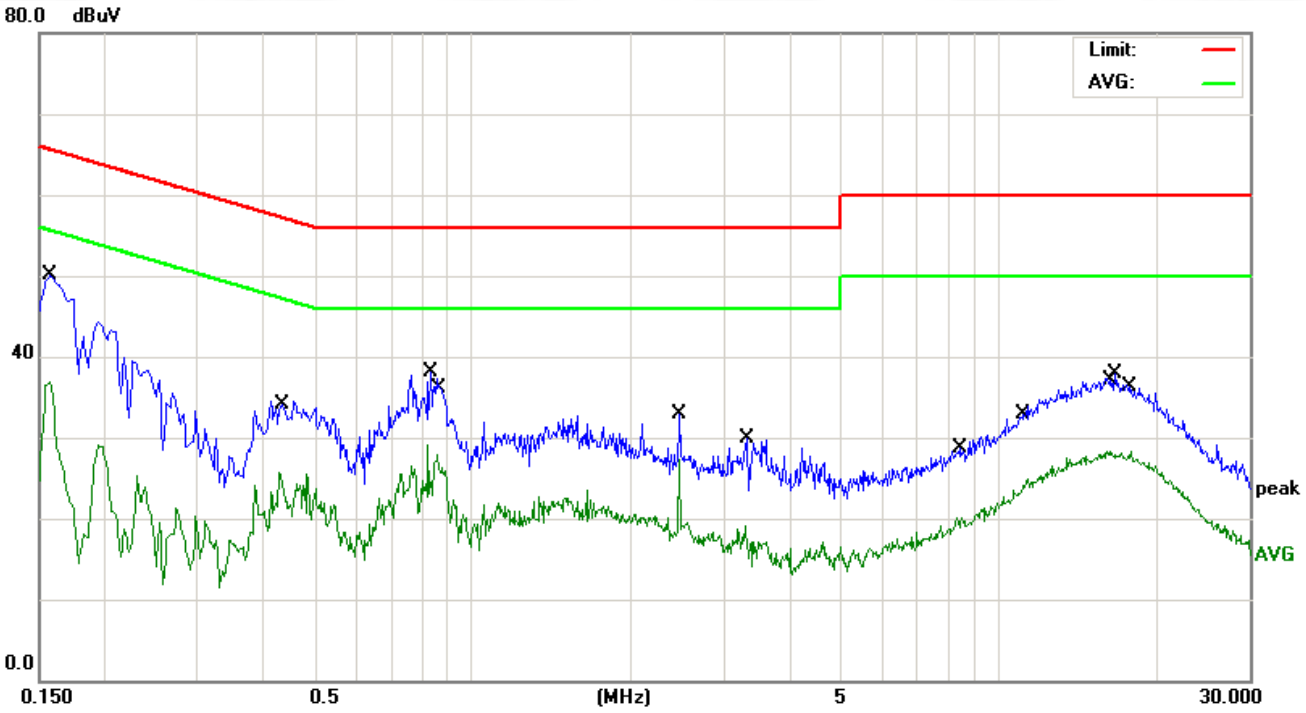
Line: Neutral / Band: 2.4G / BW: 1 / CH: M




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | |
|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | * | 0.1580 | 39.71 | 10.45 | 50.16 | 65.56 | -15.40 | QP |
| 2 | | 0.1580 | 26.45 | 10.45 | 36.90 | 55.56 | -18.66 | AVG |
| 3 | | 0.4300 | 15.28 | 10.50 | 25.78 | 47.25 | -21.47 | AVG |
| 4 | | 0.8340 | 27.55 | 10.54 | 38.09 | 56.00 | -17.91 | QP |
| 5 | | 0.8780 | 15.78 | 10.54 | 26.32 | 46.00 | -19.68 | AVG |
| 6 | | 2.4700 | 16.51 | 10.71 | 27.22 | 46.00 | -18.78 | AVG |
| 7 | | 3.3140 | 19.10 | 10.72 | 29.82 | 56.00 | -26.18 | QP |
| 8 | | 8.3460 | 9.27 | 10.80 | 20.07 | 50.00 | -29.93 | AVG |
| 9 | | 11.1820 | 22.06 | 10.92 | 32.98 | 60.00 | -27.02 | QP |
| 10 | | 16.2260 | 17.19 | 11.16 | 28.35 | 50.00 | -21.65 | AVG |
| 11 | | 16.6860 | 26.65 | 11.15 | 37.80 | 60.00 | -22.20 | QP |
| 12 | | 17.8340 | 25.25 | 11.11 | 36.36 | 60.00 | -23.64 | QP |



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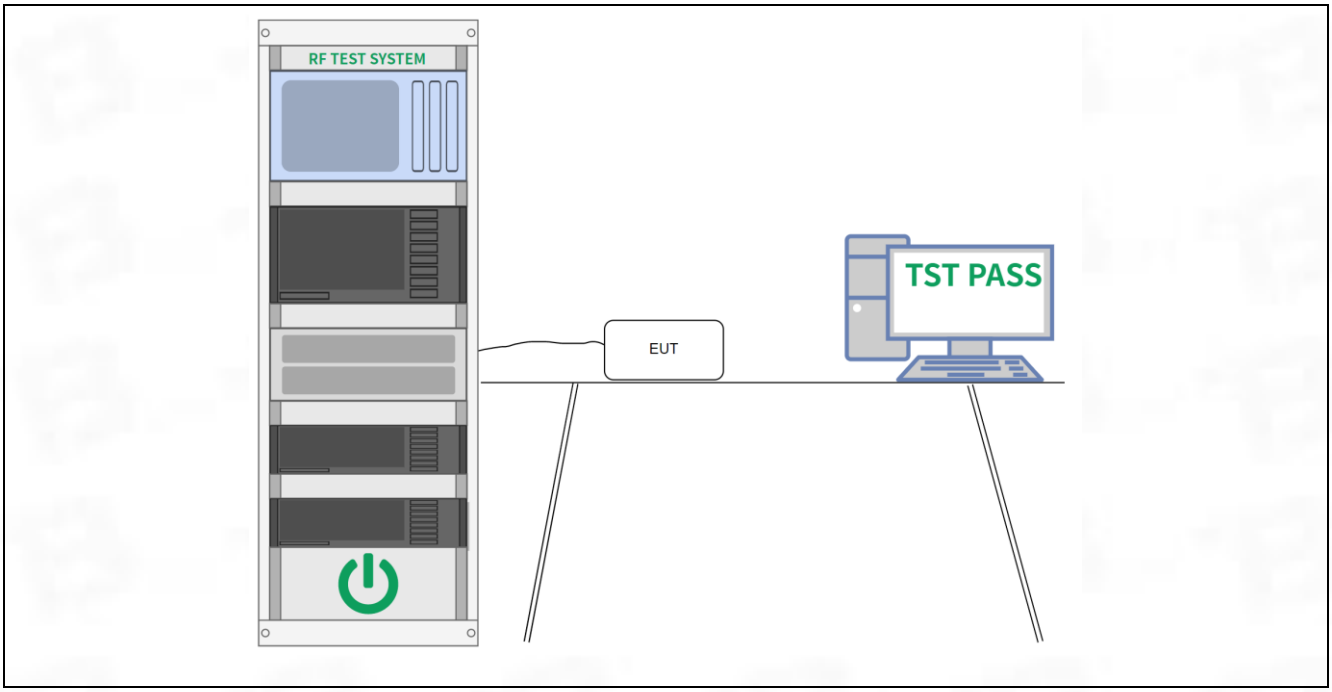
## 6.2 Occupied Bandwidth

| | |
|---|---|
| Test Requirement: | Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |
| Test Method: | DTS bandwidth |
| Test Limit: | Section (a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |
| Procedure: | a) Set RBW = 100 kHz.<br>b) Set the VBW >= [3 × RBW].<br>c) Detector = peak.<br>d) Trace mode = max hold.<br>e) Sweep = auto couple.<br>f) Allow the trace to stabilize.<br>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. |

### 6.2.1 E.U.T. Operation:

| Operating Environment: | |
|---|---|
| Temperature: | 25.8 °C |
| Humidity: | 49.9 % |
| Atmospheric Pressure: | 1010 mbar |

### 6.2.2 Test Setup Diagram:




### 6.2.3 Test Data:

Please Refer to Appendix for Details.



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## 6.3 Maximum Conducted Output Power

| | |
|---|---|
| Test Requirement: | For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method: | Maximum peak conducted output power |
| Test Limit: | For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Procedure: | ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power |

### 6.3.1 E.U.T. Operation:

| Operating Environment: | |
|---|---|
| Temperature: | 25.8 °C |
| Humidity: | 49.9 % |
| Atmospheric Pressure: | 1010 mbar |



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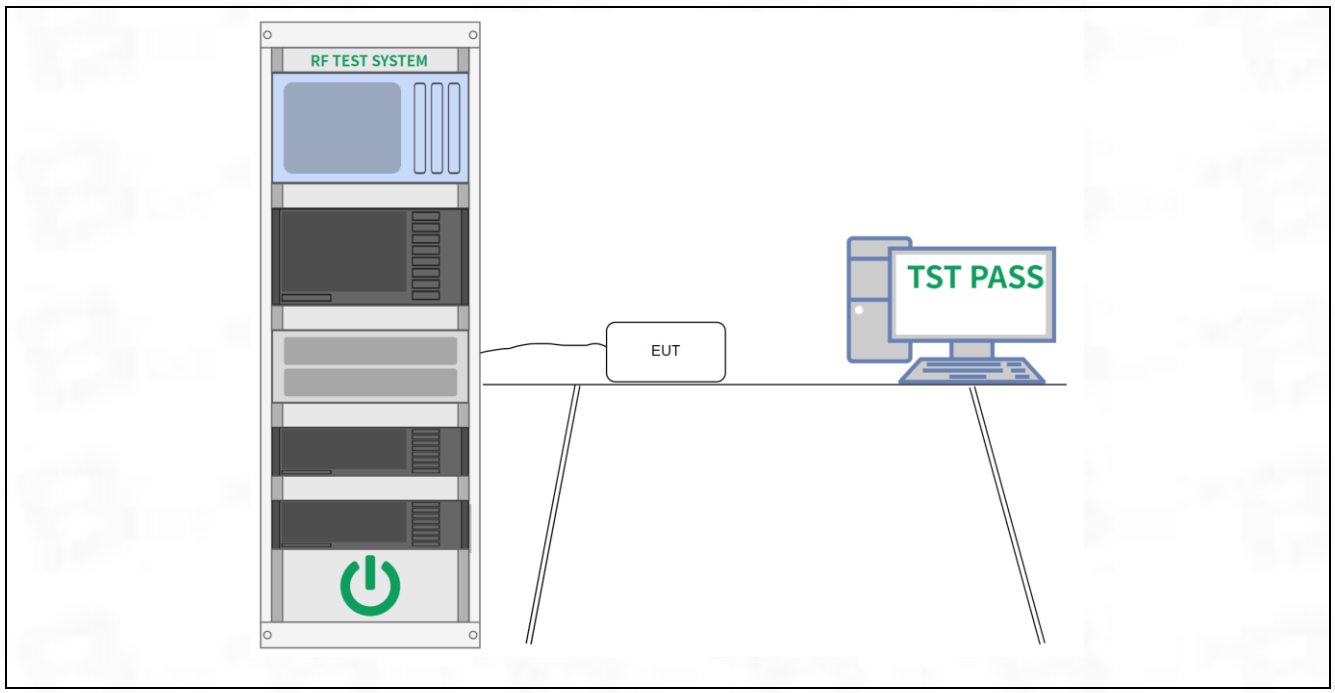
### 6.3.2 Test Setup Diagram:




### 6.3.3 Test Data:

Please Refer to Appendix for Details.



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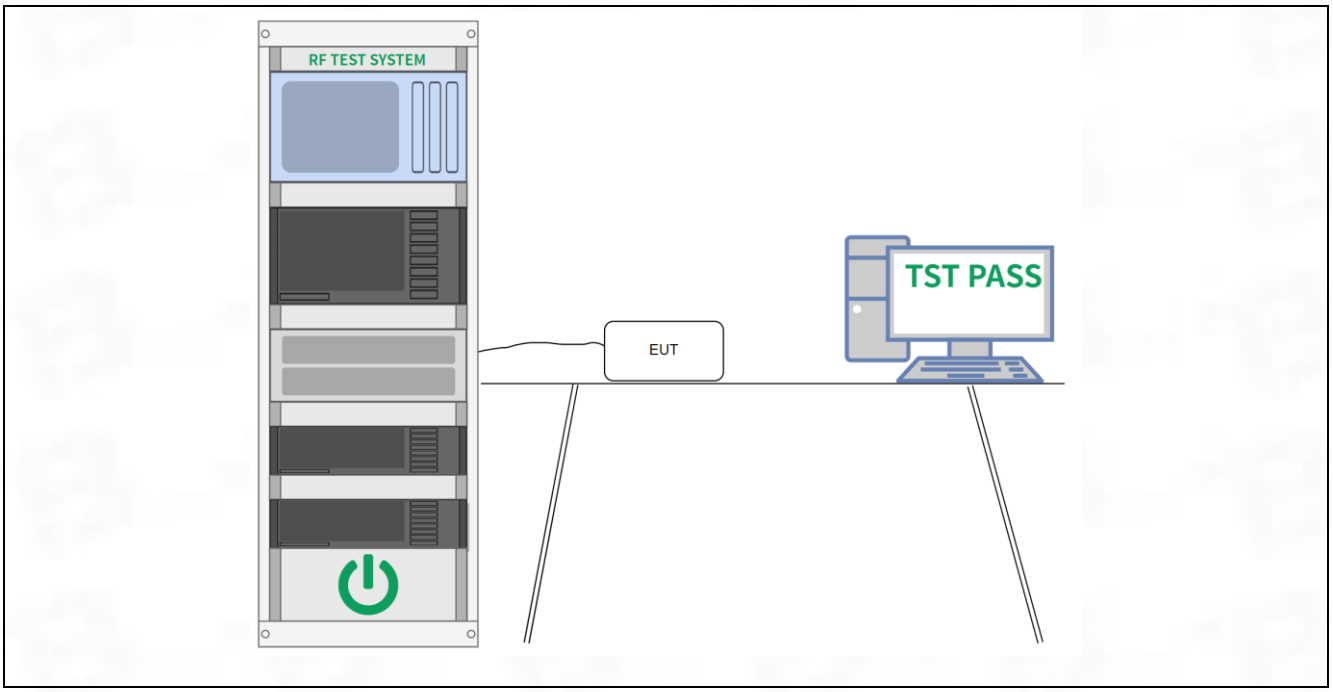
## 6.4 Power Spectral Density

| | |
|---|---|
| Test Requirement: | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method: | Maximum power spectral density level in the fundamental emission |
| Test Limit: | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |

### 6.4.1 E.U.T. Operation:

| Operating Environment: | |
|---|---|
| Temperature: | 25.8 °C |
| Humidity: | 49.9 % |
| Atmospheric Pressure: | 1010 mbar |

### 6.4.2 Test Setup Diagram:




### 6.4.3 Test Data:

Please Refer to Appendix for Details.



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## 6.5 Emissions in non-restricted frequency bands

| | |
|---|---|
| Test Requirement: | 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. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method: | Emissions in nonrestricted frequency bands |
| Test Limit: | 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. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Procedure: | ANSI C63.10-2013<br>Section 11.11.1, Section 11.11.2, Section 11.11.3 |

### 6.5.1 E.U.T. Operation:

| Operating Environment: | |
|---|---|
| Temperature: | 25.8 °C |
| Humidity: | 49.9 % |
| Atmospheric Pressure: | 1010 mbar |



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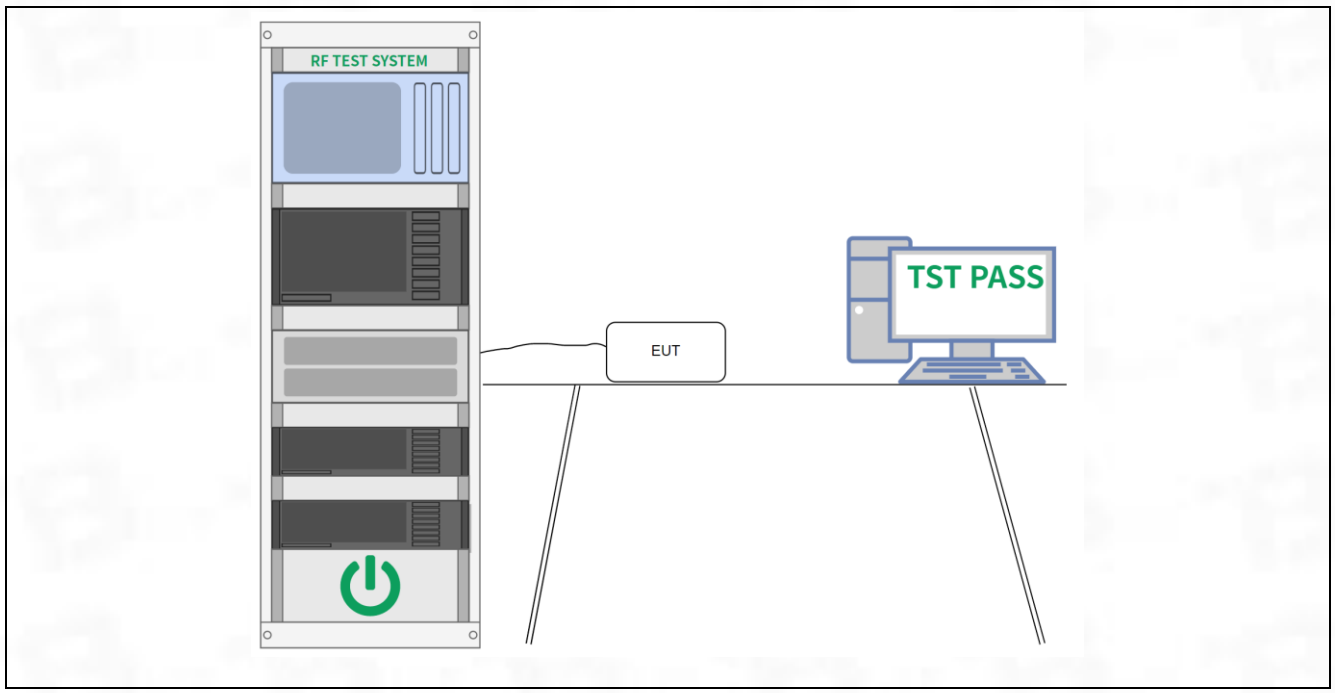
### 6.5.2 Test Setup Diagram:




### 6.5.3 Test Data:

Please Refer to Appendix for Details.



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## 6.6 Band edge emissions (Radiated)

| | |
|---|---|
| Test Requirement: | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).` |
| Test Method: | Radiated emissions tests |
| Test Limit: | Frequency (MHz) / Field strength (microvolts/meter) / Measurement distance (meters)<br>0.009-0.490 / 2400/F(kHz) / 300<br>0.490-1.705 / 24000/F(kHz) / 30<br>1.705-30.0 / 30 / 30<br>30-88 / 100 ** / 3<br>88-216 / 150 ** / 3<br>216-960 / 200 ** / 3<br>Above 960 / 500 / 3<br>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. |
| Procedure: | ANSI C63.10-2013 section 6.6.4 |

### 6.6.1 E.U.T. Operation:

| Operating Environment: | |
|---|---|
| Temperature: | 22.1 °C |
| Humidity: | 46.3 % |
| Atmospheric Pressure: | 1010 mbar |



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### 6.6.2 Test Data:

Test result for GFSK Mode（the worst case）

| Frequency | Reading | Correct Factor | Emission Level | Limit | Margin | Polar | Detector |
|---|---|---|---|---|---|---|---|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel | | | | | | | |
| 2390 | 68.32 | -8.73 | 59.59 | 74 | -14.41 | H | PK |
| 2390 | 50.15 | -8.73 | 41.42 | 54 | -12.58 | H | AV |
| 2390 | 68.01 | -8.73 | 59.28 | 74 | -14.72 | V | PK |
| 2390 | 46.66 | -8.73 | 37.93 | 54 | -16.07 | V | AV |
| High Channel | | | | | | | |
| 2483.5 | 65.35 | -8.17 | 57.18 | 74 | -16.82 | H | PK |
| 2483.5 | 48.69 | -8.17 | 40.52 | 54 | -13.48 | H | AV |
| 2483.5 | 66.68 | -8.17 | 58.51 | 74 | -15.49 | V | PK |
| 2483.5 | 46.59 | -8.17 | 38.42 | 54 | -15.58 | V | AV |



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## 6.7 Emissions in restricted frequency bands (below 1GHz)

<table>
<tr><td>Test Requirement:</td><td>In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`</td></tr>
<tr><td>Test Method:</td><td>Radiated emissions tests</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2013 section 6.6.4</td></tr>
</table>

### 6.7.1 E.U.T. Operation:

| Operating Environment: | |
|---|---|
| Temperature: | 22.1 °C |
| Humidity: | 46.3 % |
| Atmospheric Pressure: | 1010 mbar |



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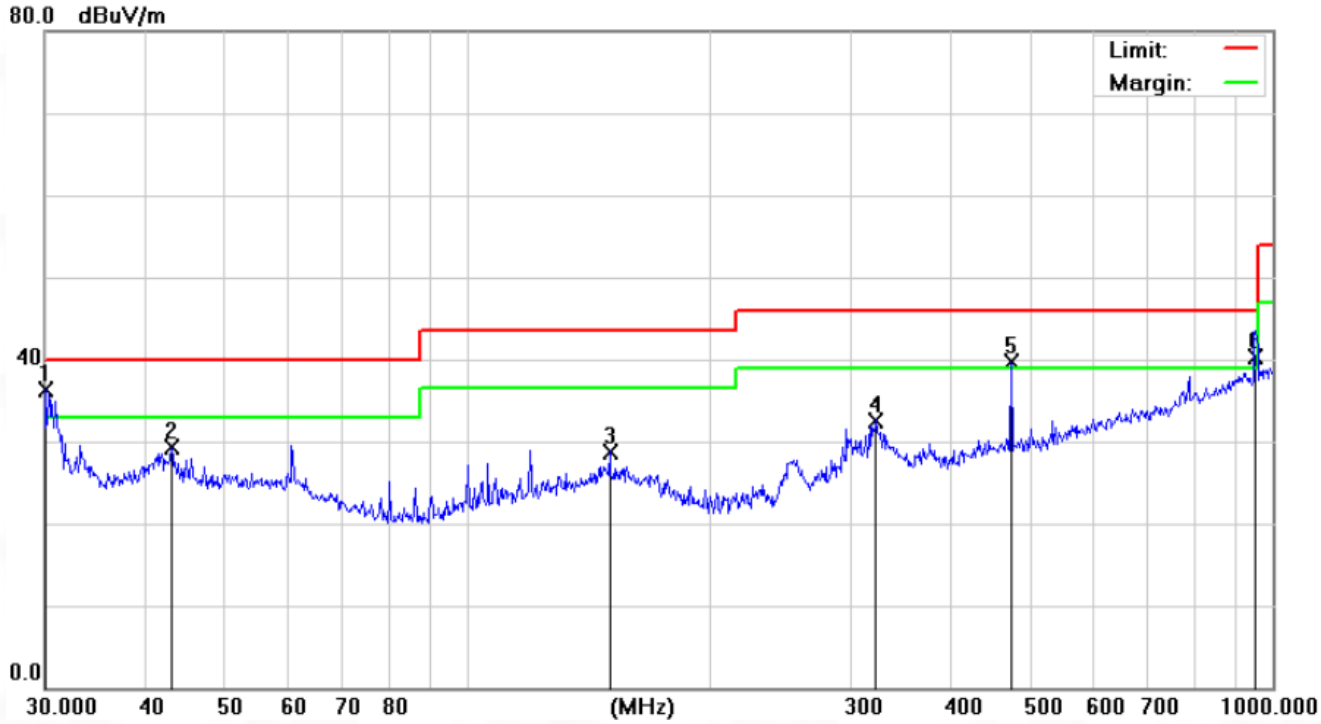
### 6.7.2 Test Data:

Note: All the mode have been tested, and only the worst case of 1M mode are in the report
Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | |
|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | * | 30.0000 | 34.02 | 2.19 | 36.21 | 40.00 | -3.79 | QP |
| 2 | | 43.0505 | 26.17 | 3.08 | 29.25 | 40.00 | -10.75 | QP |
| 3 | | 150.5378 | 25.62 | 3.18 | 28.80 | 43.50 | -14.70 | QP |
| 4 | | 322.1886 | 29.76 | 2.84 | 32.60 | 46.00 | -13.40 | QP |
| 5 | ! | 473.8347 | 33.75 | 5.88 | 39.63 | 46.00 | -6.37 | QP |
| 6 | ! | 950.9537 | 25.37 | 15.02 | 40.39 | 46.00 | -5.61 | QP |



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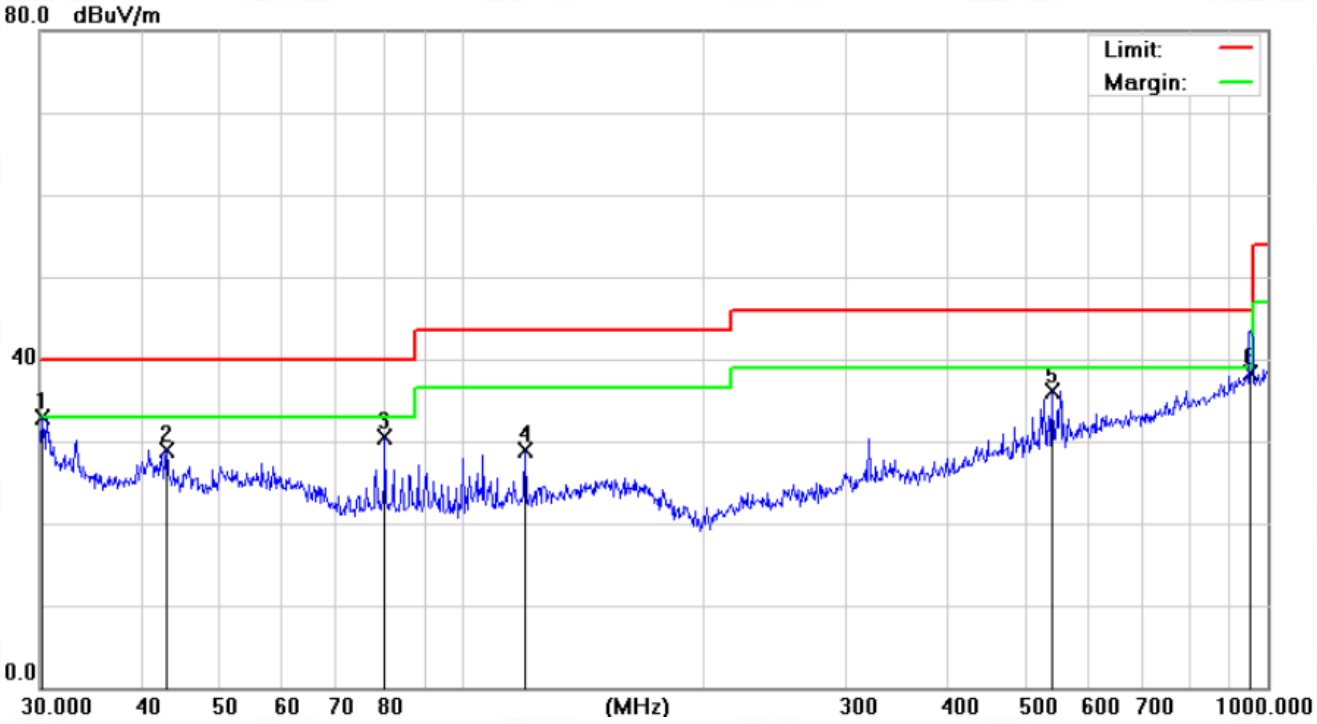
Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | |
|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | * | 30.2111 | 49.49 | -16.61 | 32.88 | 40.00 | -7.12 | QP |
| 2 | | 43.0505 | 45.52 | -16.52 | 29.00 | 40.00 | -11.00 | QP |
| 3 | | 80.3619 | 47.26 | -16.67 | 30.59 | 40.00 | -9.41 | QP |
| 4 | | 119.8556 | 45.68 | -16.83 | 28.85 | 43.50 | -14.65 | QP |
| 5 | | 539.4775 | 53.17 | -17.05 | 36.12 | 46.00 | -9.88 | QP |
| 6 | | 952.0337 | 52.66 | -14.37 | 38.29 | 46.00 | -7.71 | QP |



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## 6.8 Emissions in restricted frequency bands (above 1GHz)

<table>
<tr><td>Test Requirement:</td><td>In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`</td></tr>
<tr><td>Test Method:</td><td>Radiated emissions tests</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2013 section 6.6.4</td></tr>
</table>

### 6.8.1 E.U.T. Operation:

| Operating Environment: | |
|---|---|
| Temperature: | 22.1 °C |
| Humidity: | 46.3 % |
| Atmospheric Pressure: | 1010 mbar |

### 6.8.2 Test Data:

| Freq. (MHz) | Low channel: 2402MHz | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant.Pol | Emission Level(dBuV) | | Limit 3m(dBuV/m) | | Over(dB) | |
| | H/V | PK | AV | PK | AV | PK | AV |
| 4804 | V | 59.93 | 39.86 | 74 | 54 | -14.07 | -14.14 |
| 7206 | V | 59.21 | 40.47 | 74 | 54 | -14.79 | -13.53 |
| 4804 | H | 58.33 | 40.46 | 74 | 54 | -15.67 | -13.54 |
| 7206 | H | 58.56 | 39.56 | 74 | 54 | -15.44 | -14.44 |

| Freq. (MHz) | Middle channel: 2440MHz | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant.Pol | Emission Level(dBuV) | | Limit 3m(dBuV/m) | | Over(dB) | |
| | H/V | PK | AV | PK | AV | PK | AV |
| 4880 | V | 58.89 | 39.51 | 74 | 54 | -15.11 | -14.49 |
| 7320 | V | 58.14 | 40.44 | 74 | 54 | -15.86 | -13.56 |
| 4880 | H | 58.50 | 40.63 | 74 | 54 | -15.50 | -13.37 |
| 7320 | H | 59.12 | 40.12 | 74 | 54 | -14.88 | -13.88 |

| Freq. (MHz) | High channel: 2480 MHz | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant.Pol | Emission Level(dBuV) | | Limit 3m(dBuV/m) | | Over(dB) | |
| | H/V | PK | AV | PK | AV | PK | AV |
| 4960 | V | 58.17 | 41.92 | 74 | 54 | -15.83 | -12.08 |
| 7440 | V | 59.20 | 40.39 | 74 | 54 | -14.80 | -13.61 |
| 4960 | H | 59.90 | 39.66 | 74 | 54 | -14.10 | -14.34 |
| 7440 | H | 58.86 | 39.86 | 74 | 54 | -15.14 | -14.14 |

***Note:***

*1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.*

*2. Emission Level= Reading Level+Probe Factor +Cable Loss.*

*Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*



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# Appendix



BTF Testing Lab (Shenzhen) Co., Ltd.
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# 1. Bandwidth

## 1.1 BW

### 1.1.1 Test Result

**BLE 1M**

| Test channel | 6dB Emission Bandwidth (kHz) | | |
|---|---|---|---|
| | BT LE mode | Limit | Result |
| Lowest | 0.658 | >500k | PASS |
| Middle | 0.676 | >500k | |
| Highest | 0.662 | >500k | |

**BLE 2M**

| Test channel | 6dB Emission Bandwidth (kHz) | | |
|---|---|---|---|
| | BT LE mode | Limit | Result |
| Lowest | 1.1 | >500k | PASS |
| Middle | 1.117 | >500k | |
| Highest | 1.104 | >500k | |



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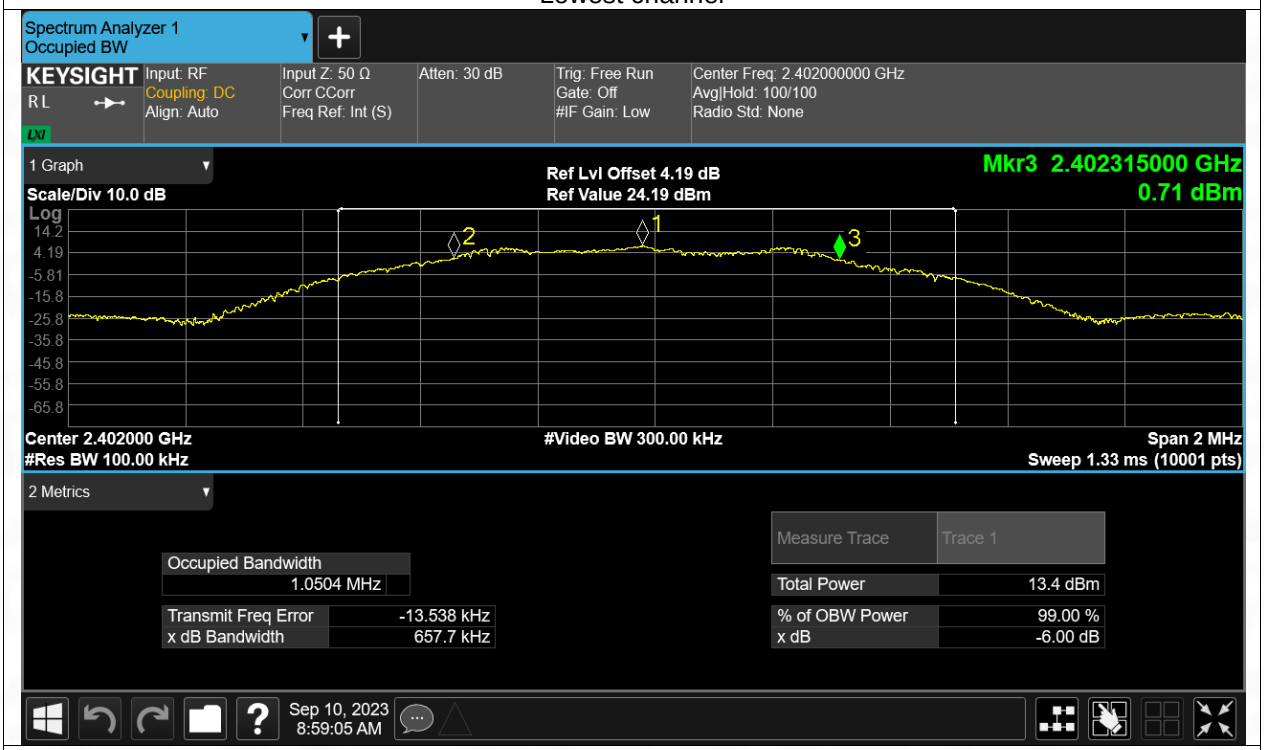
## 1.1.2 Test Graph

BLE 1M

Lowest channel




Middle channel

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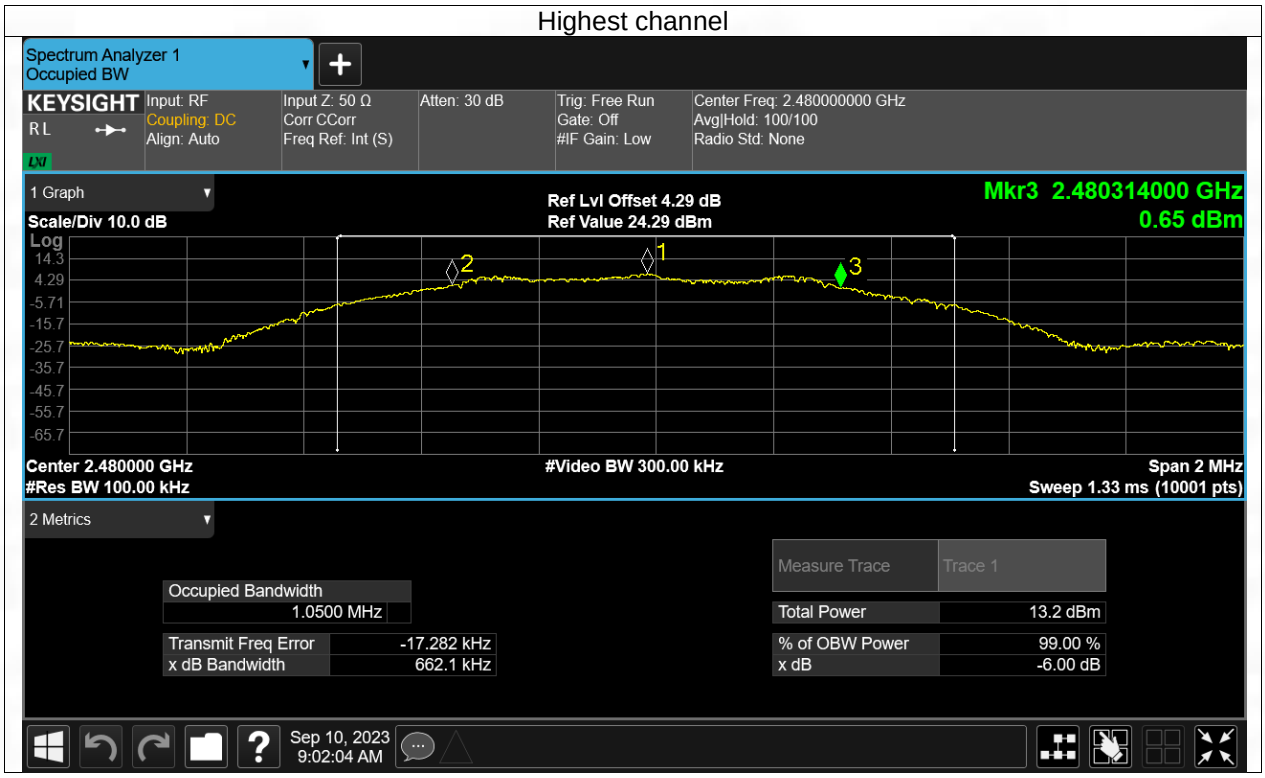
Highest channel



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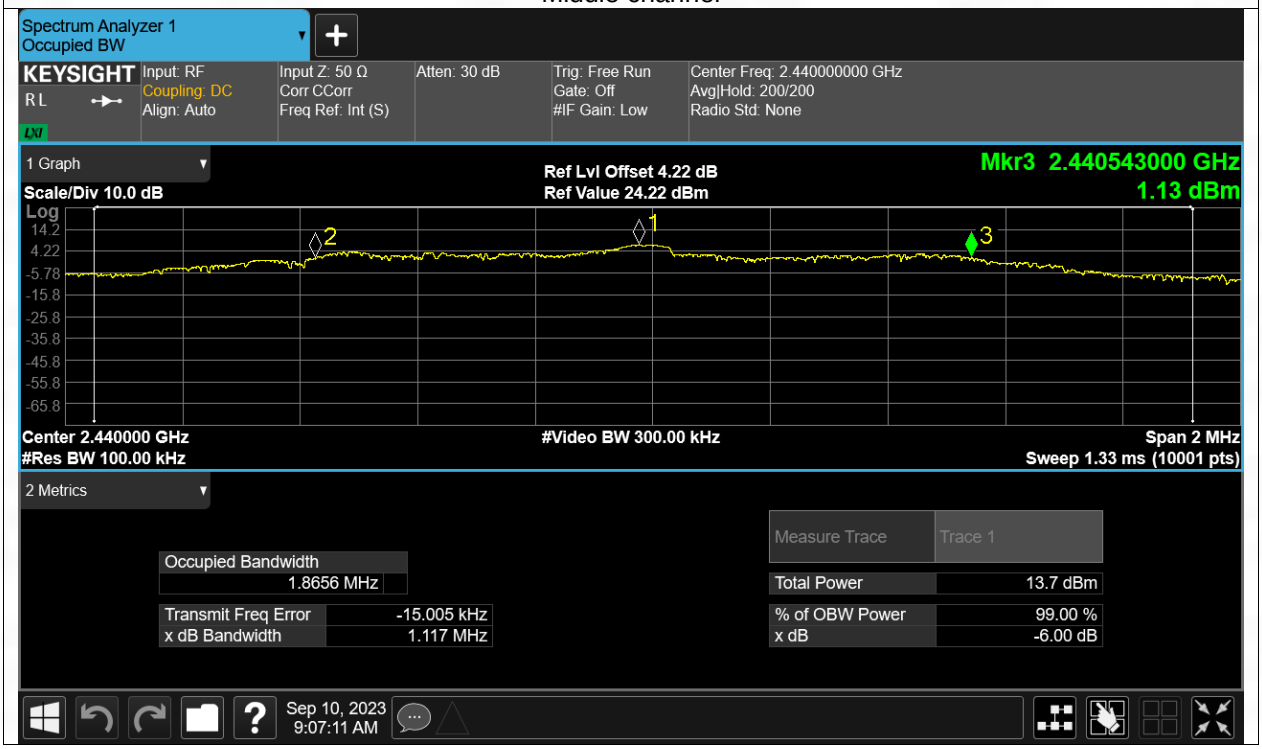
BLE 2M

Lowest channel


Middle channel



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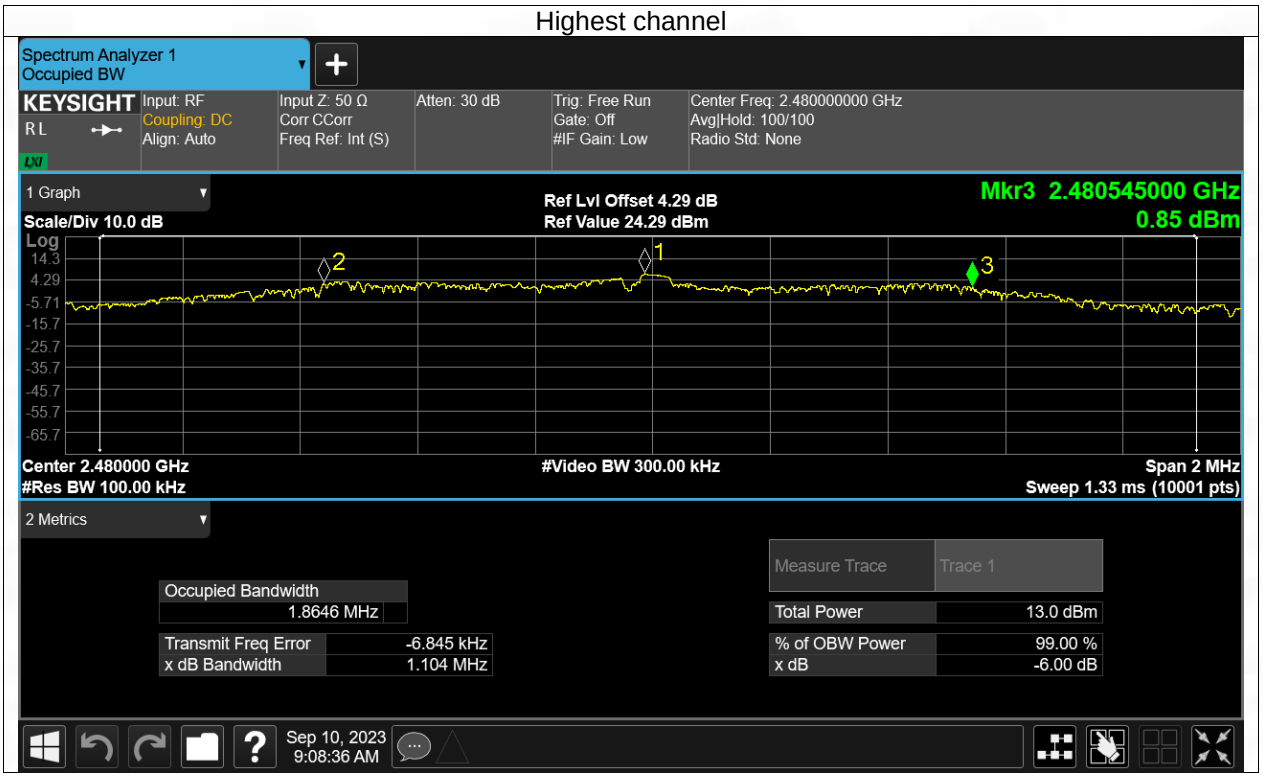
Highest channel



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# 2. Maximum Conducted Output Power

## 2.1 Power

### 2.1.1 Test Result

| BLE 1M | | | |
|---|---|---|---|
| Test channel | Maximum Conducted Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 3.13 | 30.00 | PASS |
| Middle | 3.01 | 30.00 | PASS |
| Highest | 3.05 | 30.00 | PASS |

| BLE 2M | | | |
|---|---|---|---|
| Test channel | Maximum Conducted Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 6.05 | 30.00 | PASS |
| Middle | 5.9 | 30.00 | PASS |
| Highest | 5.94 | 30.00 | PASS |



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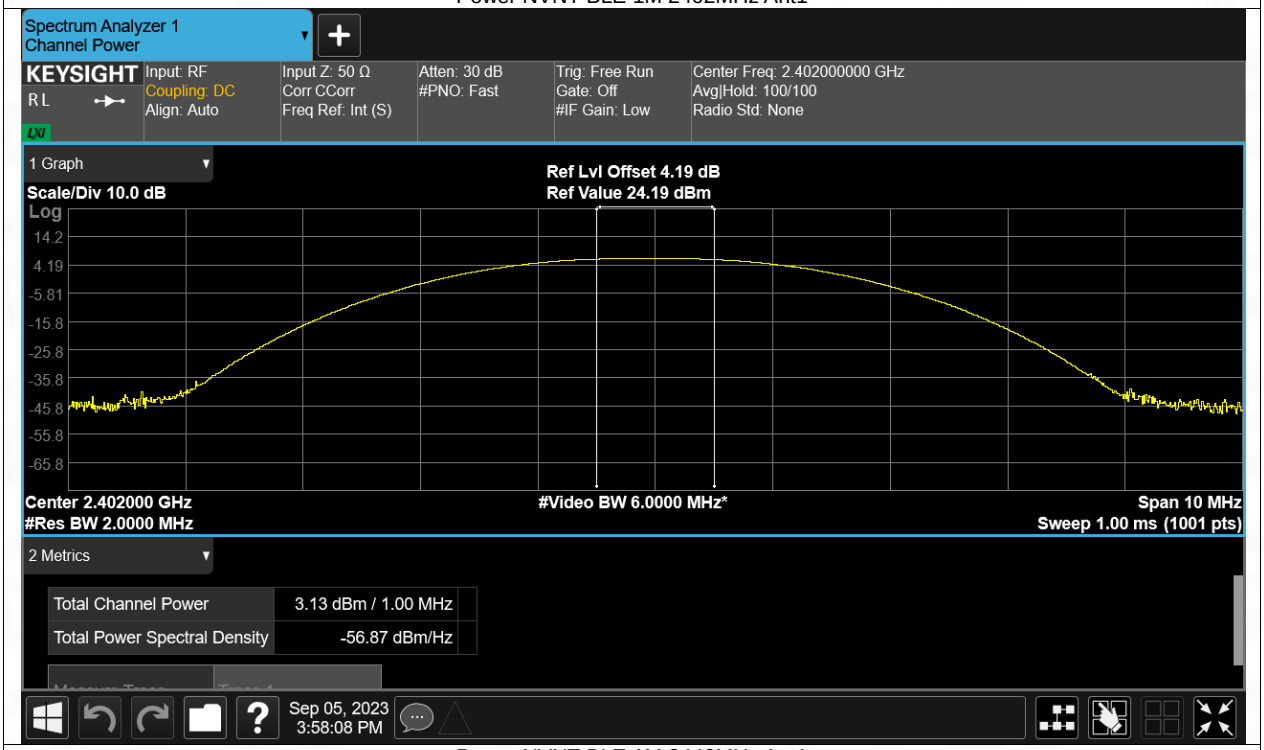
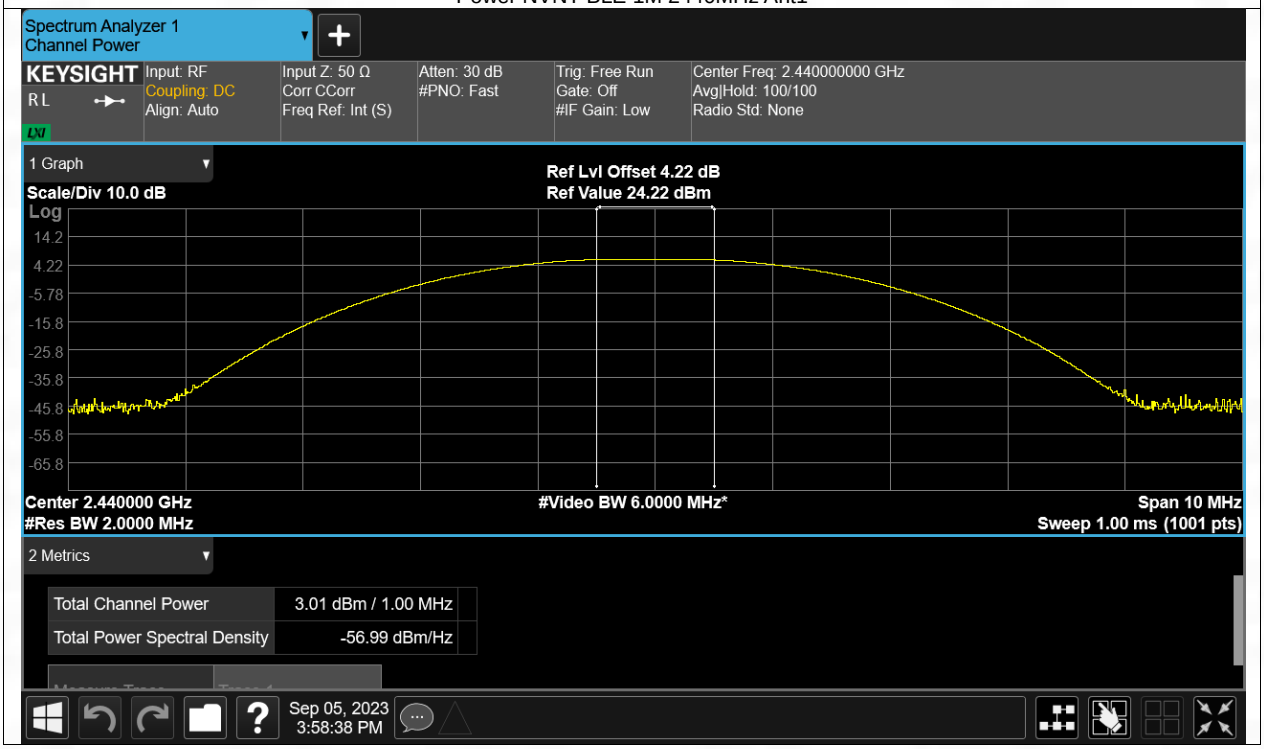
## 2.1.2 Test Graph

Test Graphs

Power NVNT BLE 1M 2402MHz Ant1




Power NVNT BLE 1M 2440MHz Ant1



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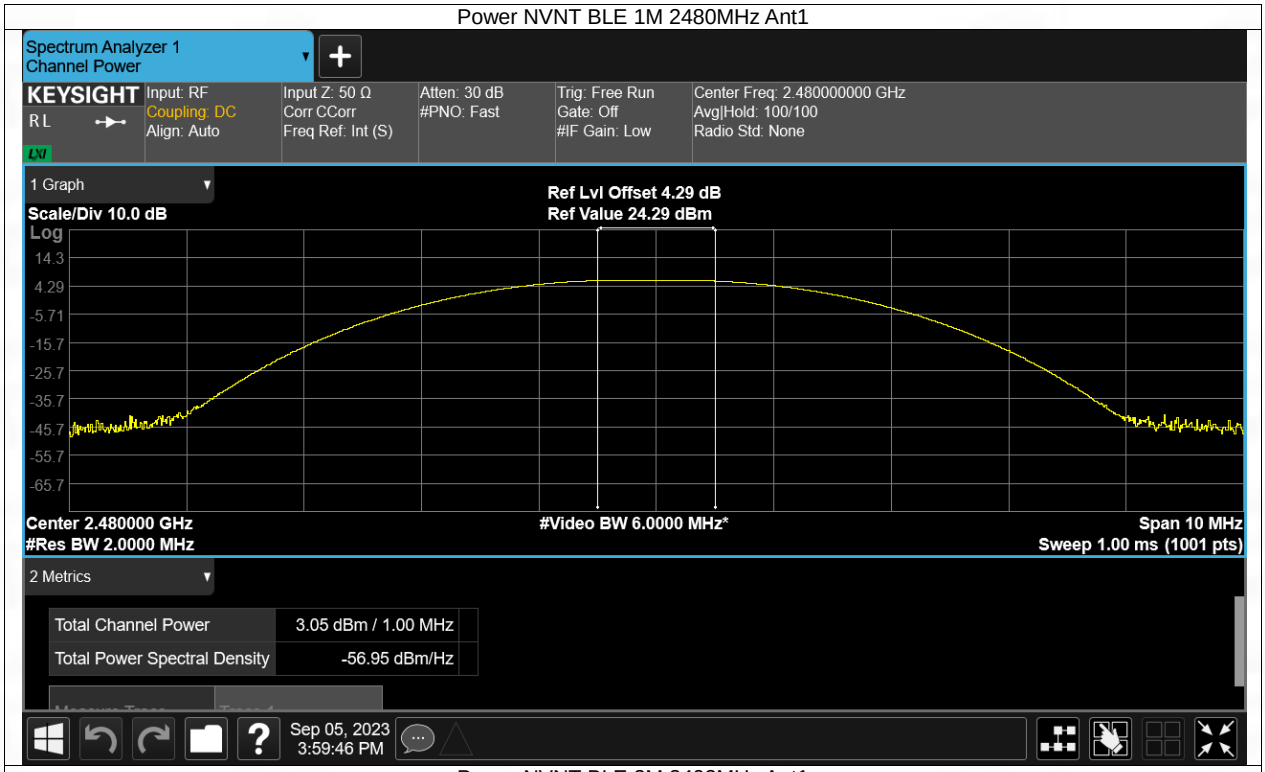
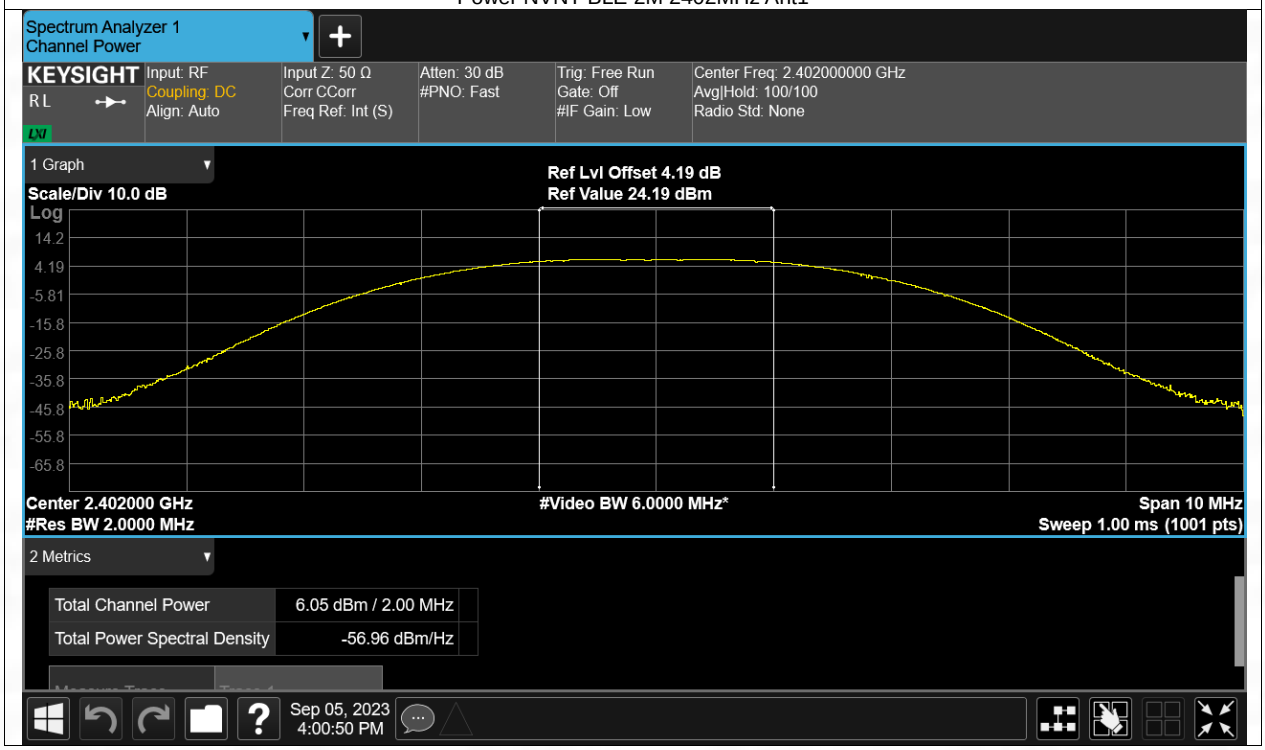
Power NVNT BLE 1M 2480MHz Ant1




Power NVNT BLE 2M 2402MHz Ant1



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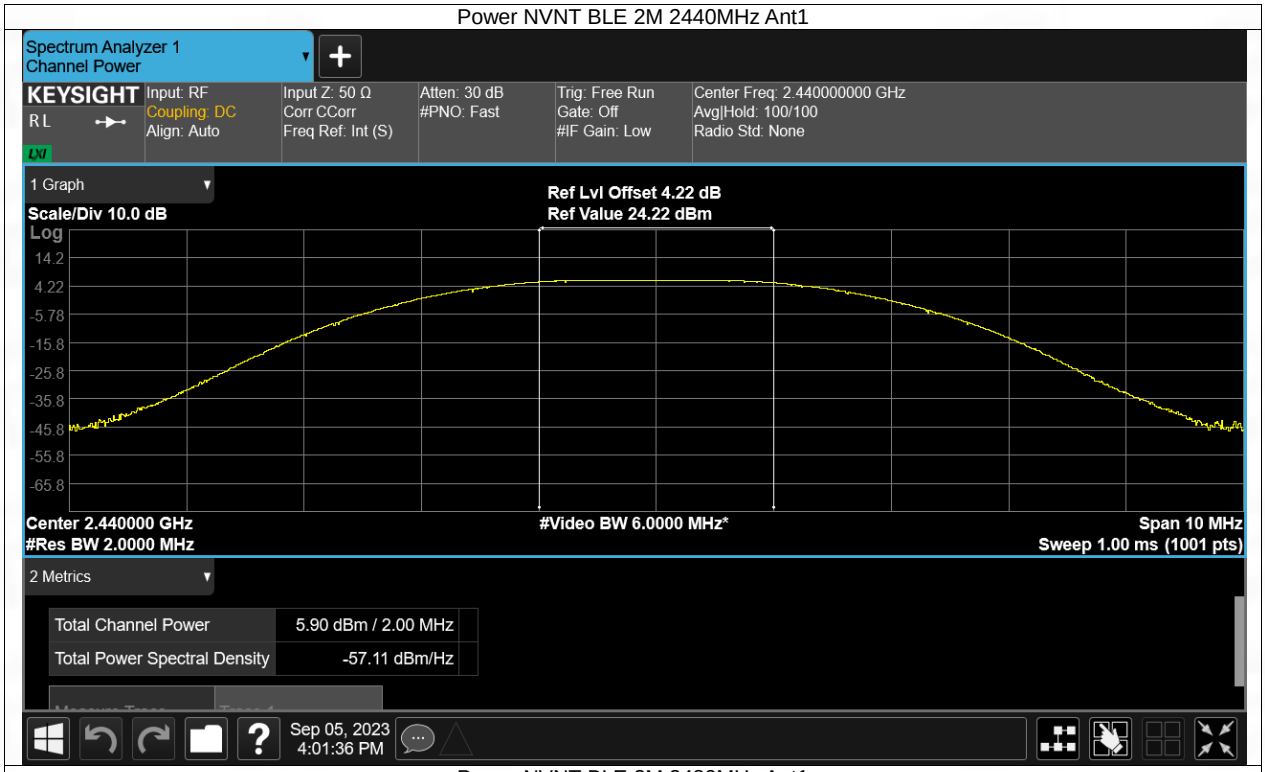
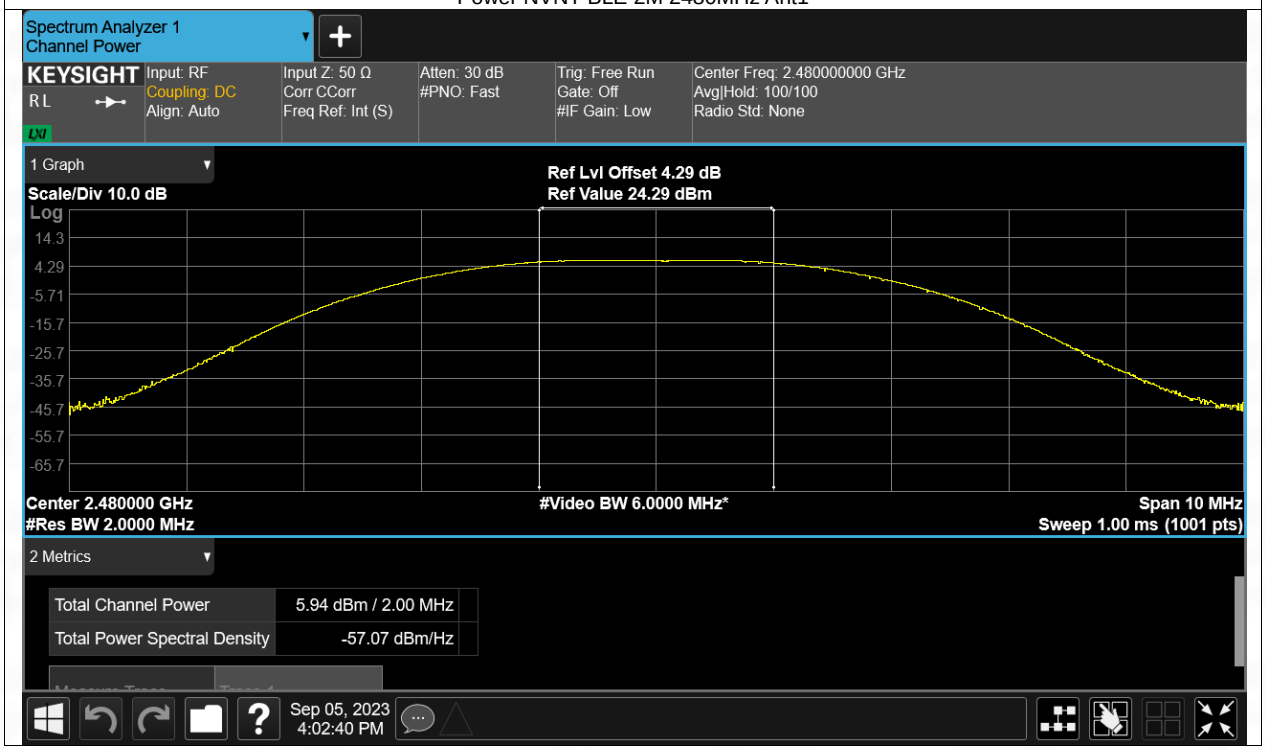
Power NVNT BLE 2M 2440MHz Ant1




Power NVNT BLE 2M 2480MHz Ant1



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# 3. Maximum Power Spectral Density

## 3.1 PSD

### 3.1.1 Test Result

| Test channel | Power Spectral Density (dBm/3kHz) | | |
|---|---|---|---|
| | BLE 1M | Limit | Result |
| Lowest | -7.63 | 8 dBm/3kHz | PASS |
| Middle | -8.14 | 8 dBm/3kHz | |
| Highest | -8.25 | 8 dBm/3kHz | |

| Test channel | Power Spectral Density (dBm/3kHz) | | |
|---|---|---|---|
| | BLE 2M | Limit | Result |
| Lowest | -9.92 | 8 dBm/3kHz | PASS |
| Middle | -10.38 | 8 dBm/3kHz | |
| Highest | -10.68 | 8 dBm/3kHz | |



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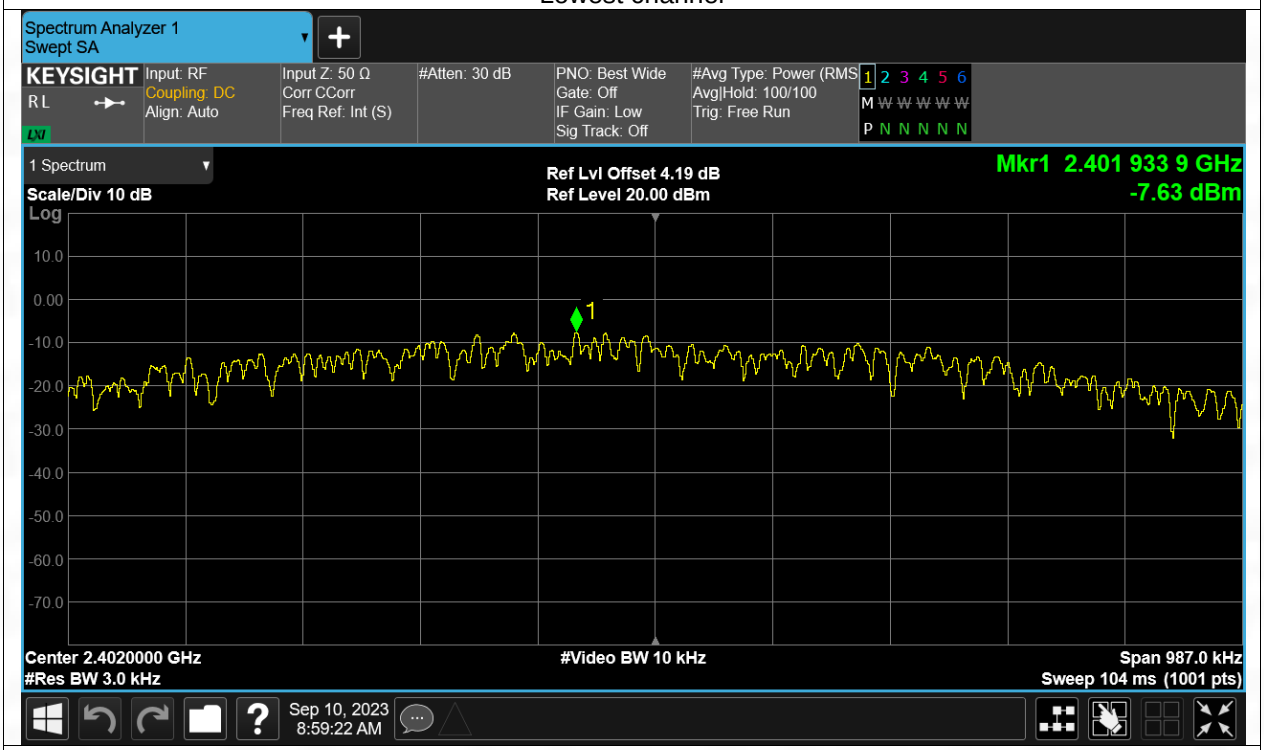
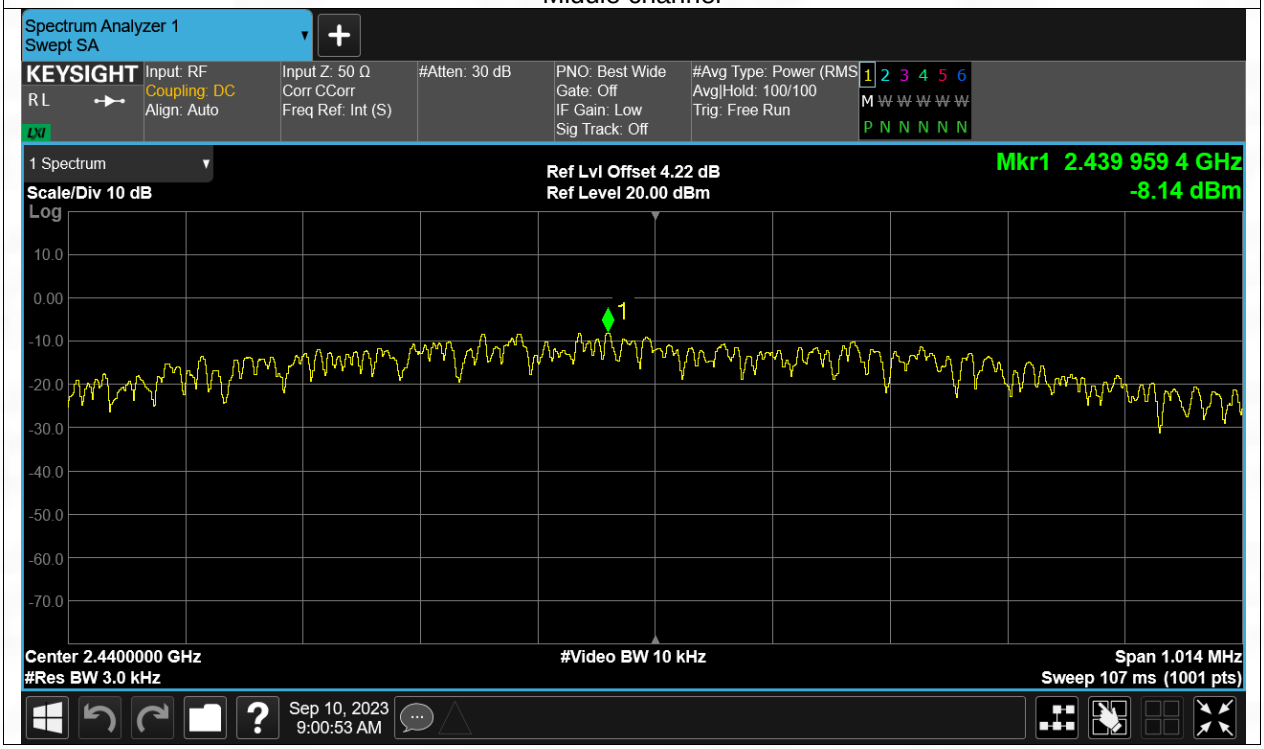
## 3.1.2 Test Graph

BLE 1M

Lowest channel




Middle channel



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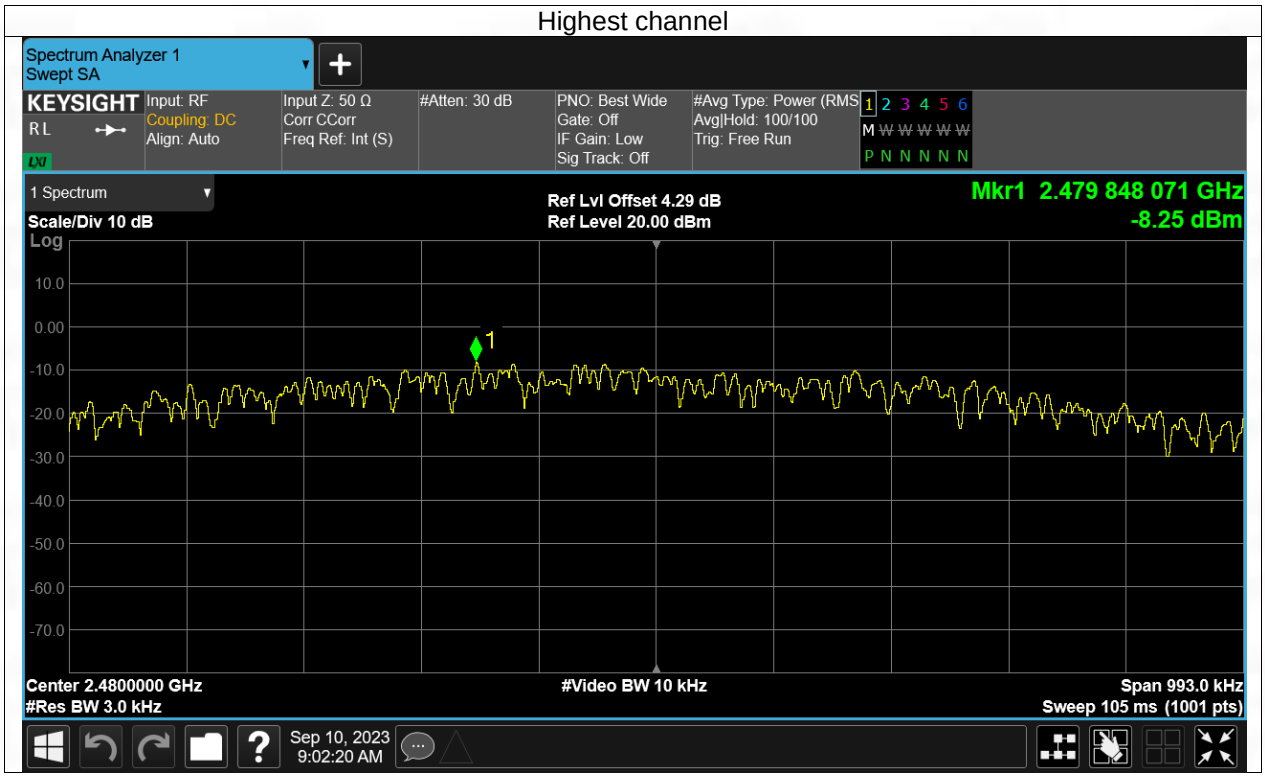
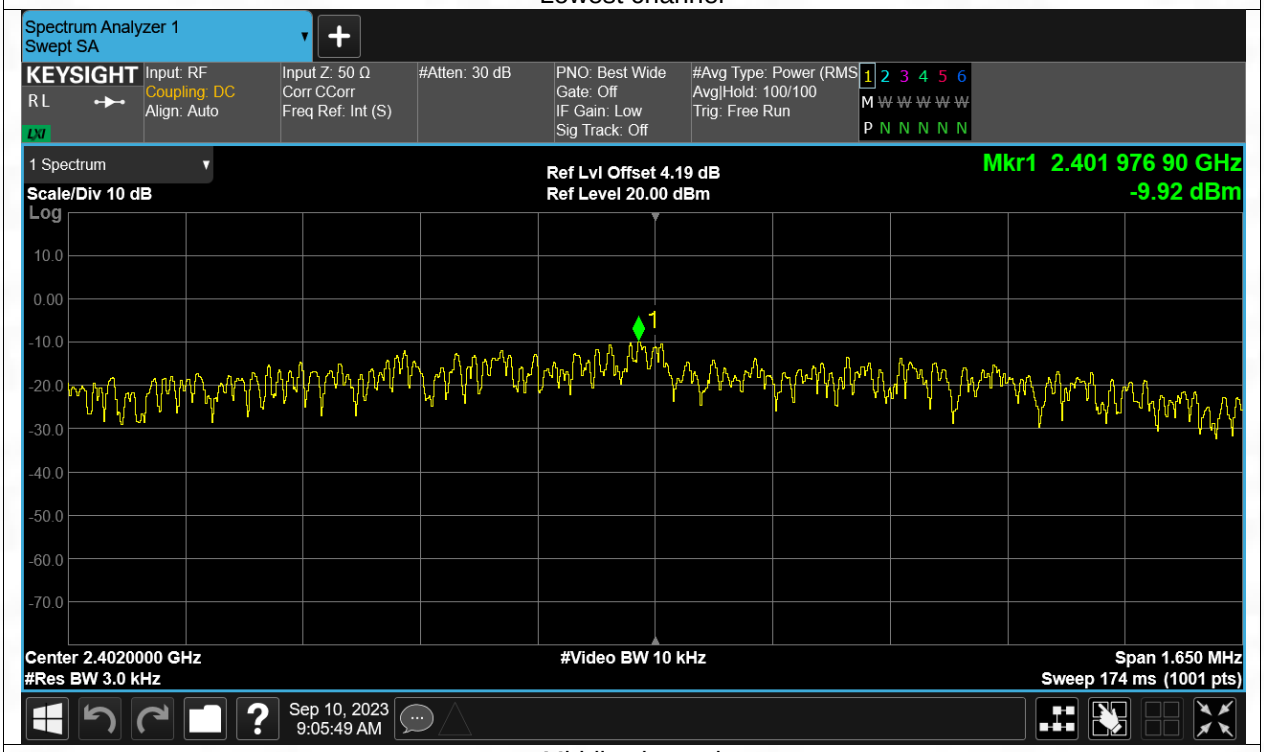
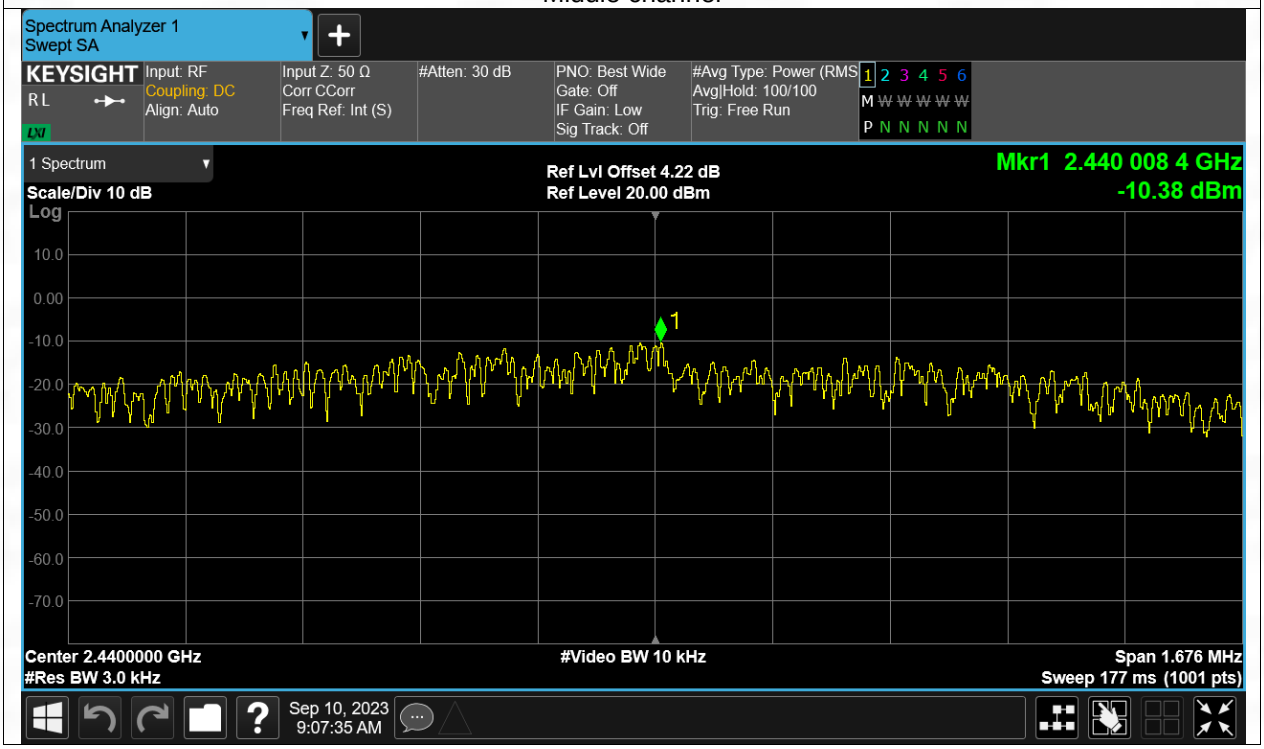
Highest channel



| BLE 2M |
| --- |
| Lowest channel |




| Middle channel |
| --- |



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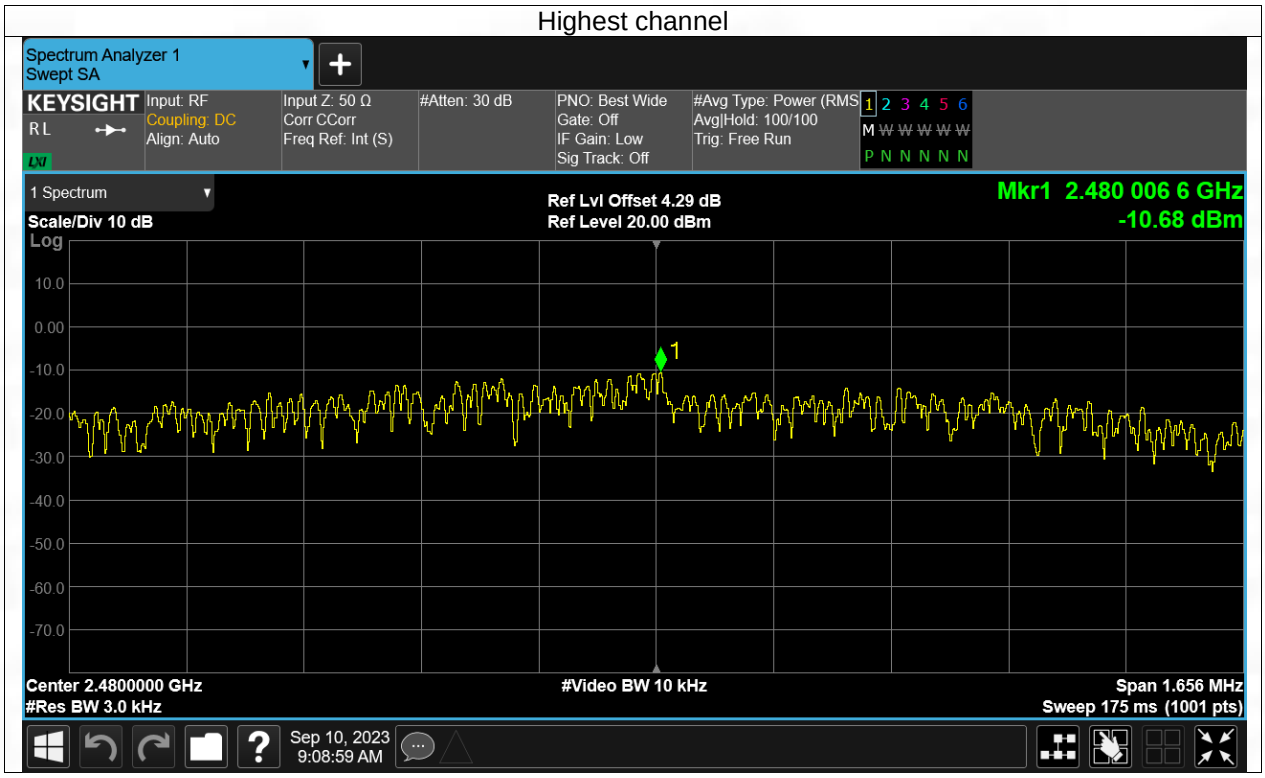
Highest channel



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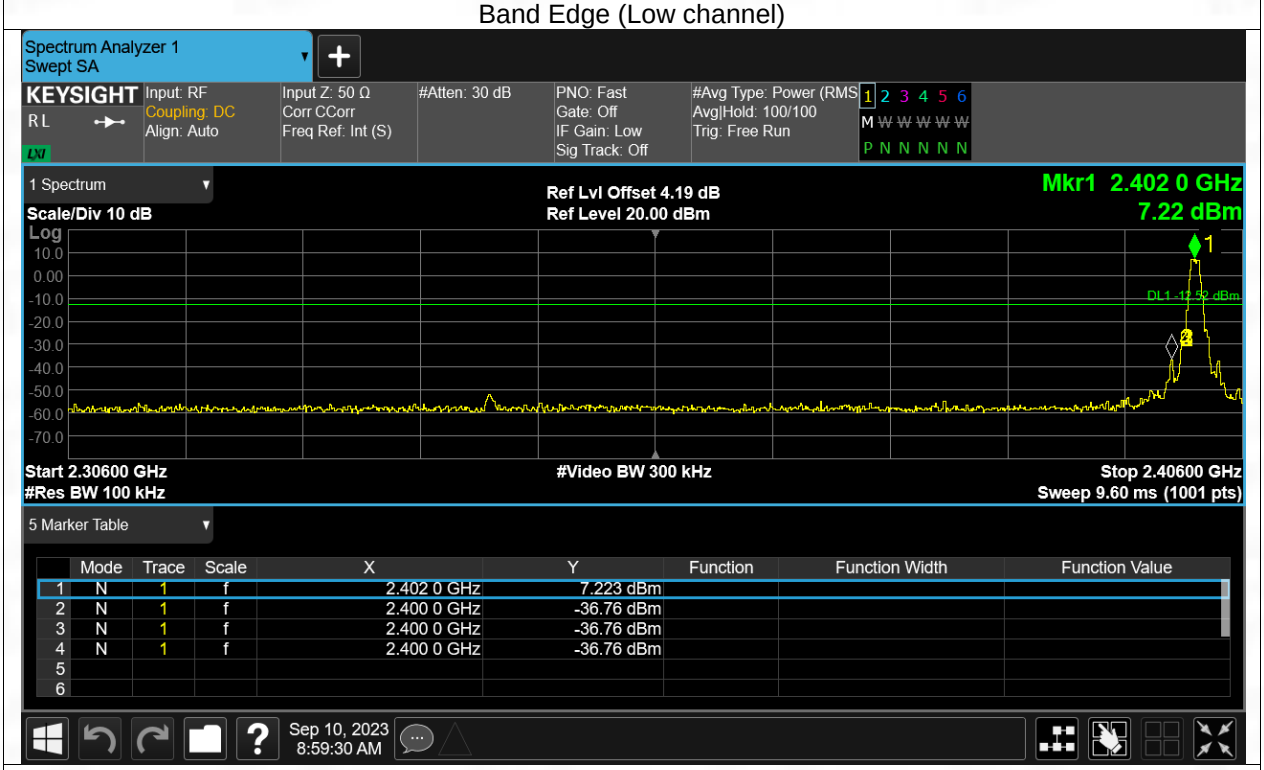
# 4. Unwanted Emissions In Non-restricted Frequency Bands

## 4.1.1Test Result(PASS)

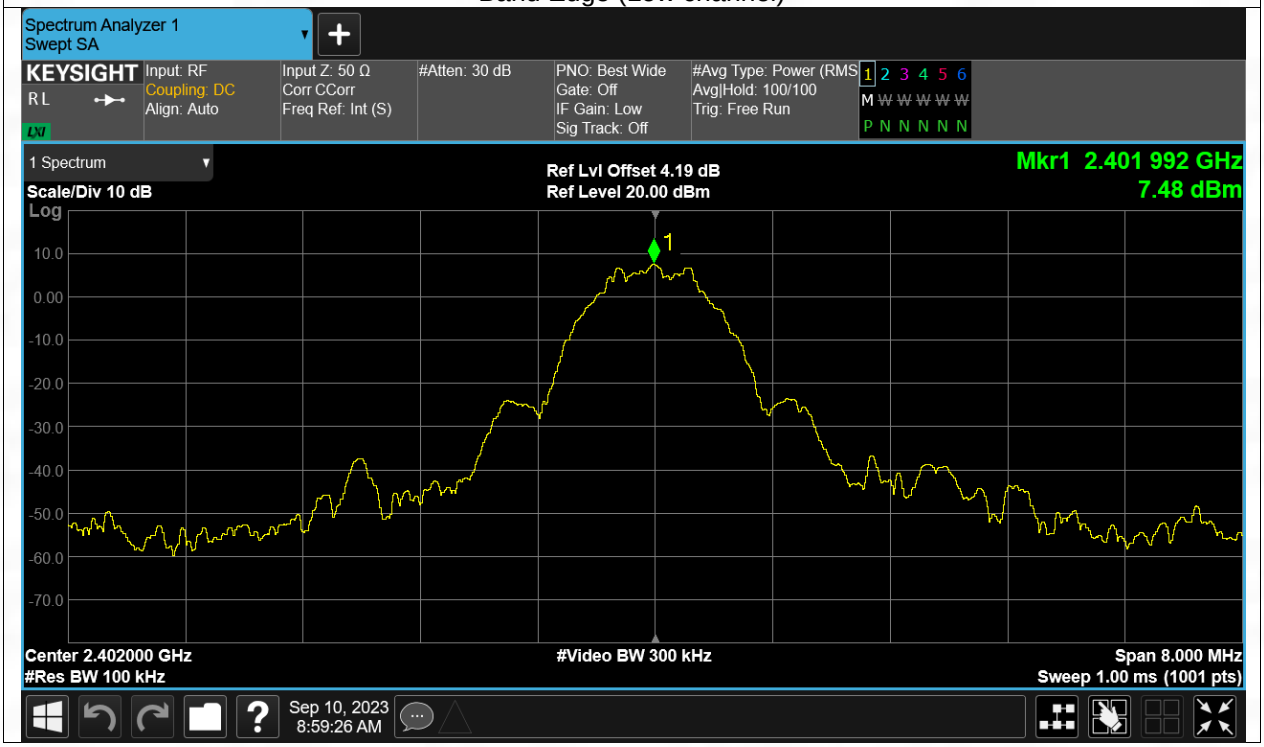
## 4.1.2 Test Graph

BLE 1M

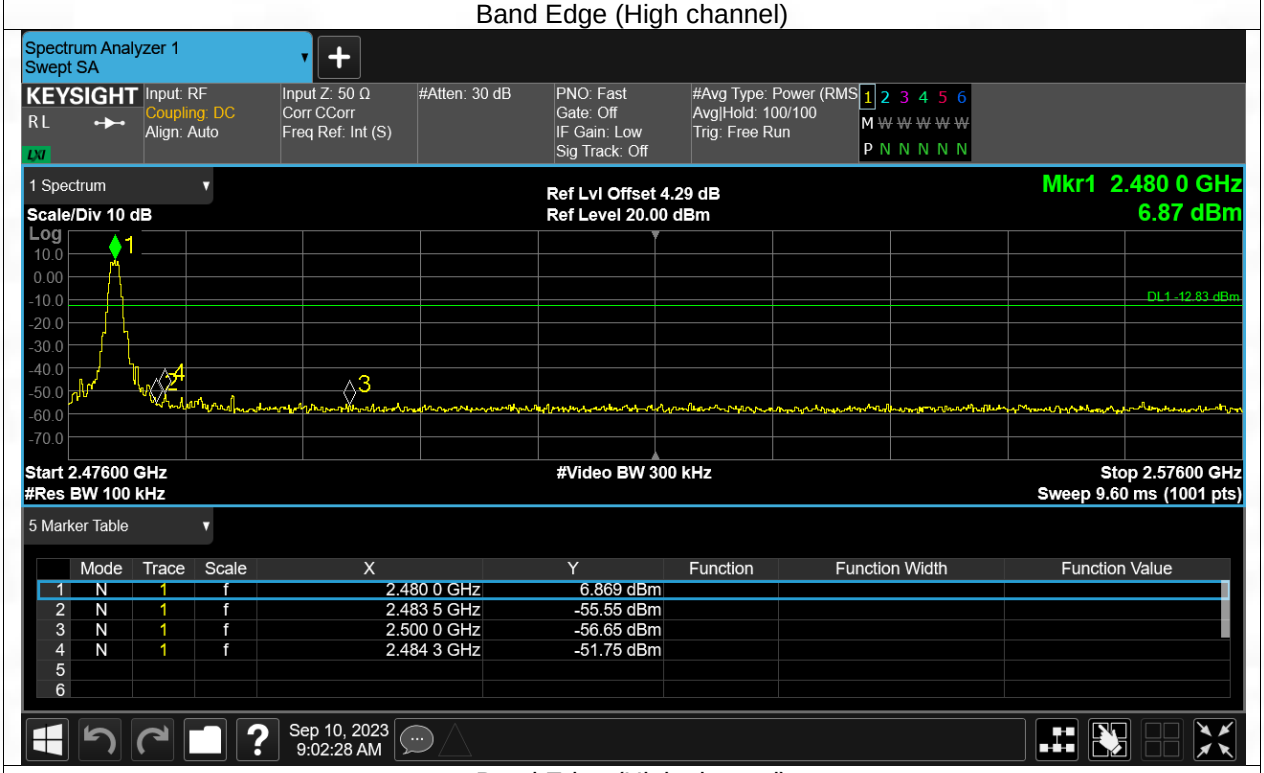
Band Edge (Low channel)



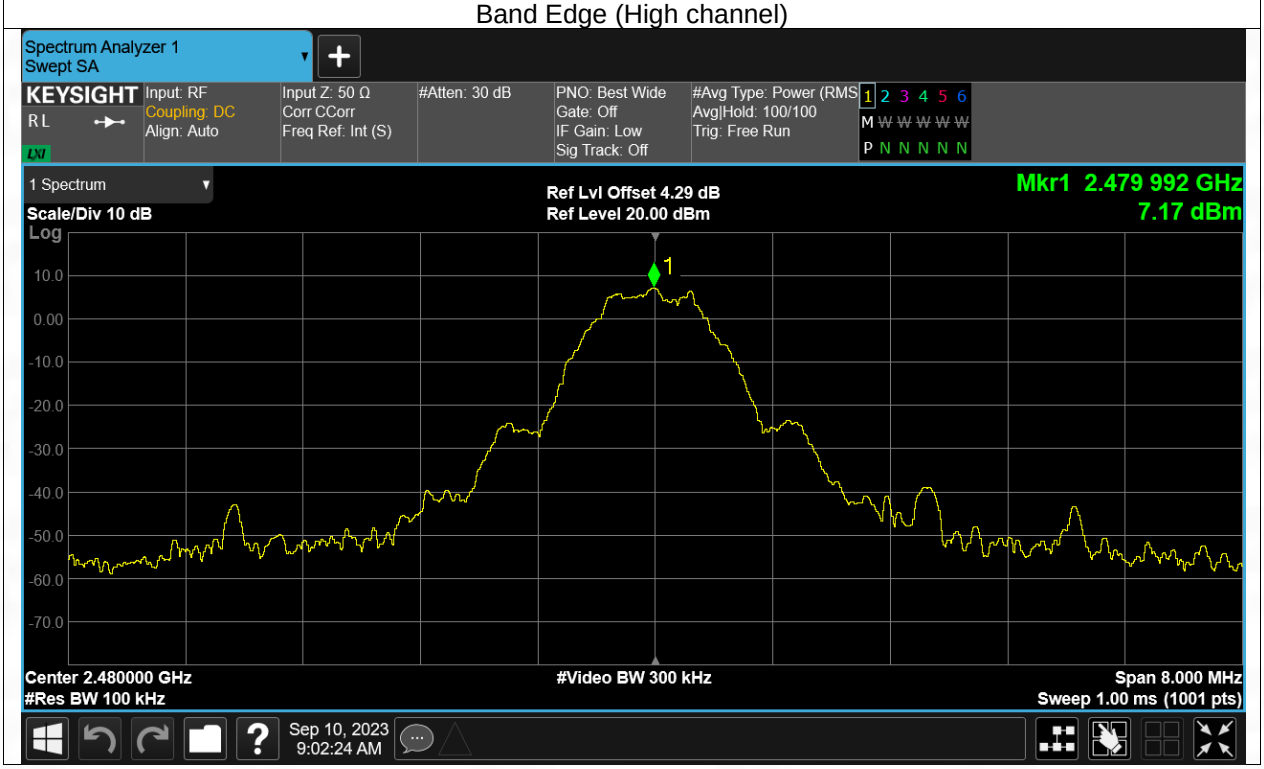

Band Edge (Low channel)



Band Edge (High channel)




Band Edge (High channel)



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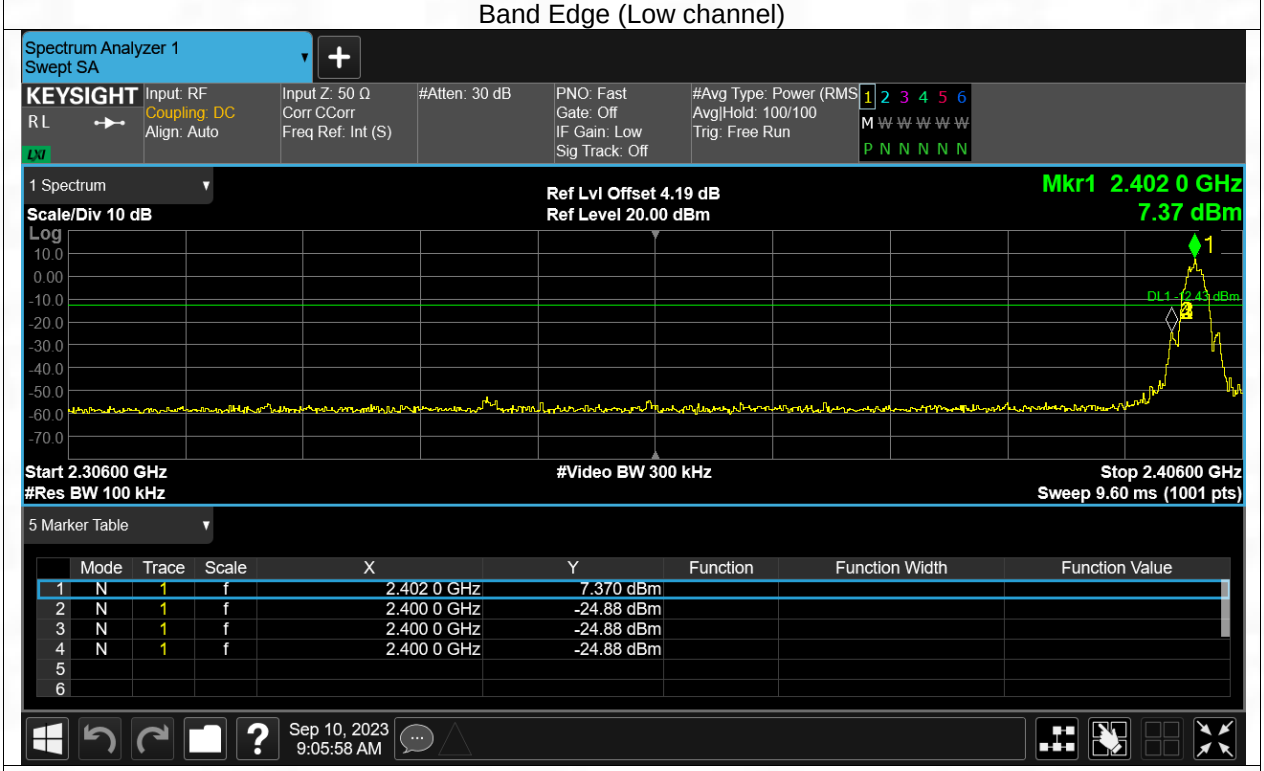
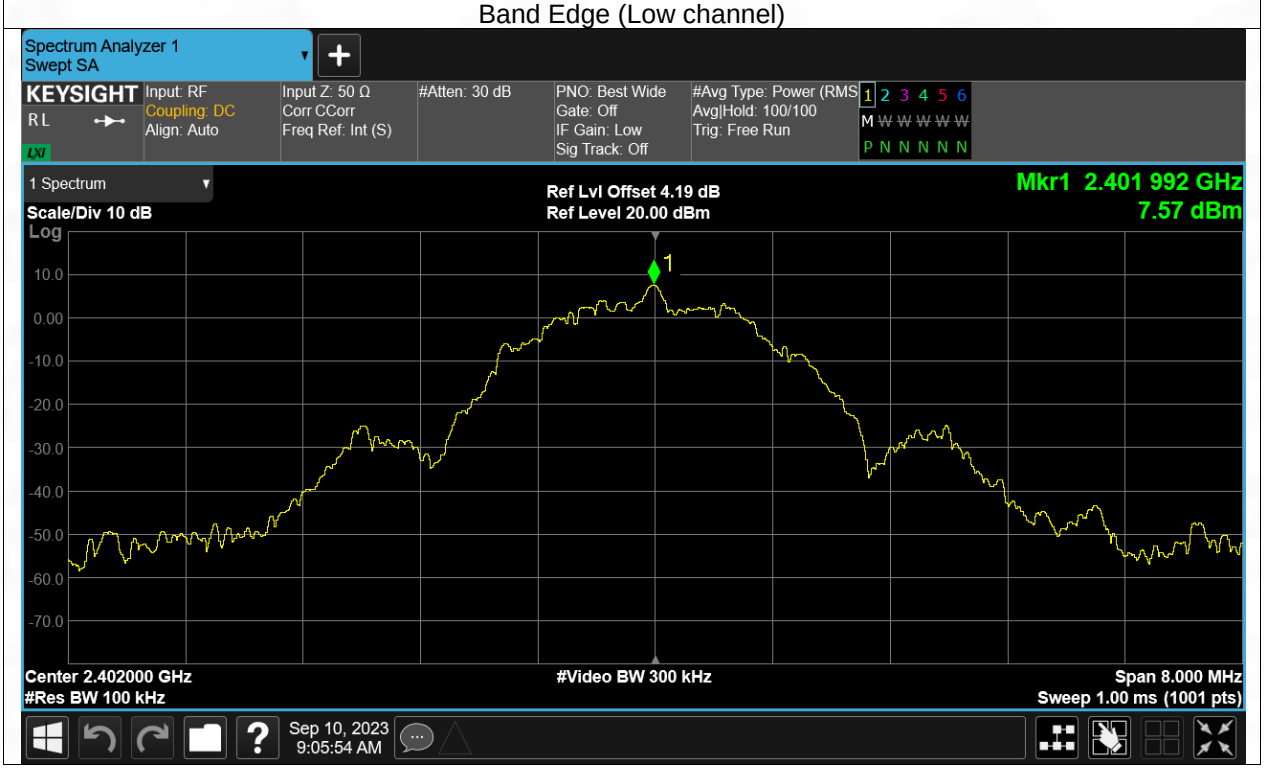
BLE 2M

Band Edge (Low channel)




Band Edge (Low channel)



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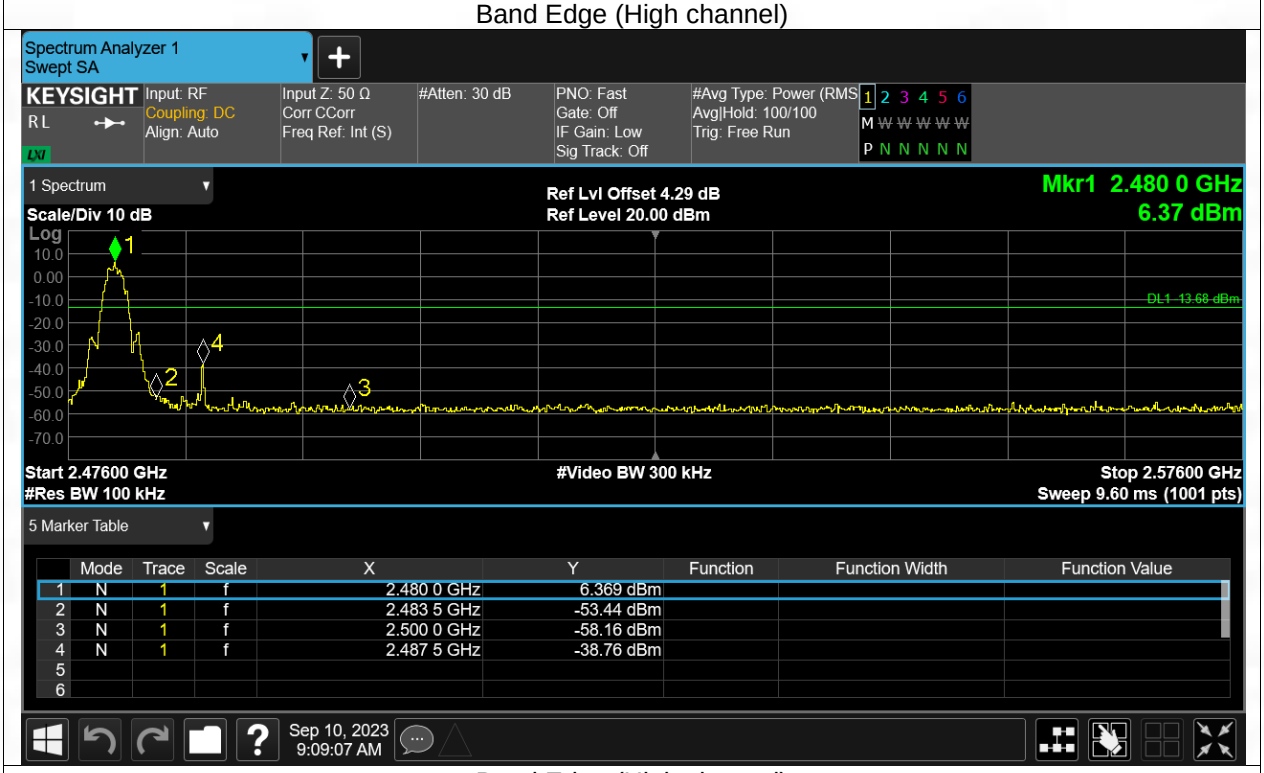
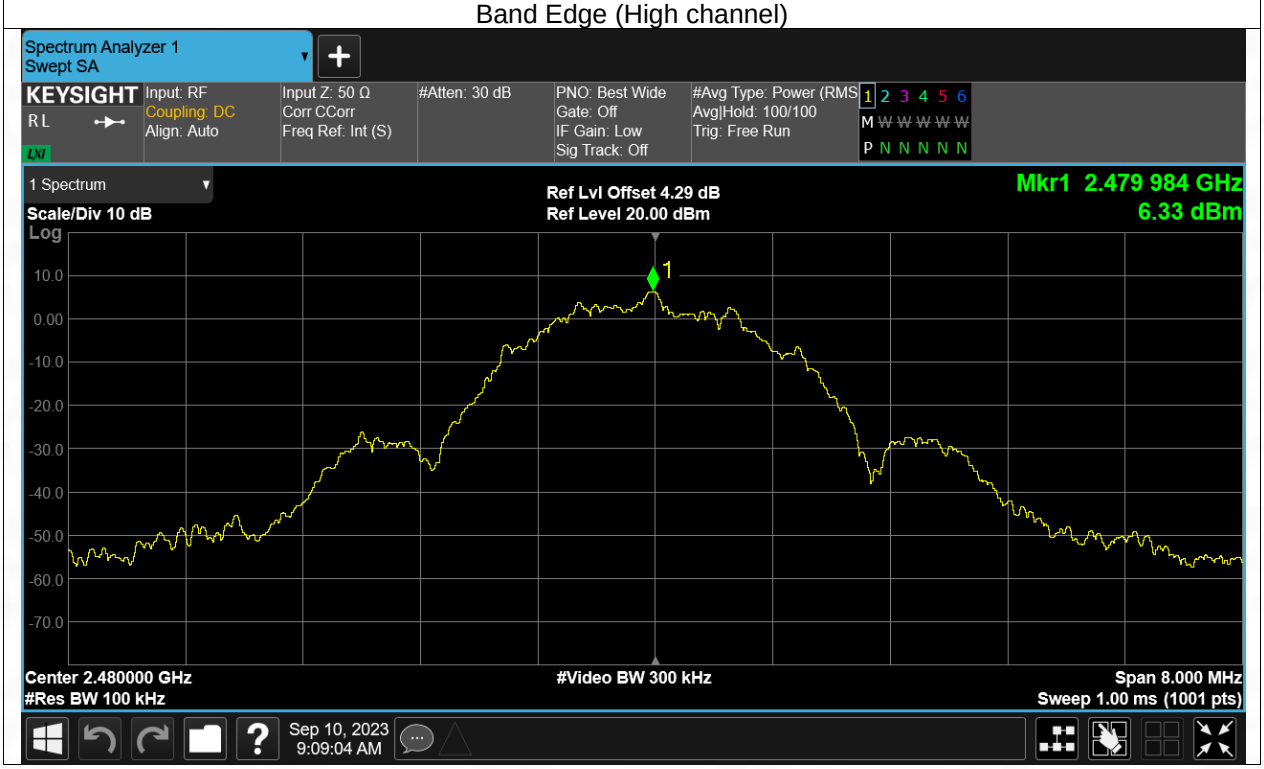
Band Edge (High channel)




Band Edge (High channel)



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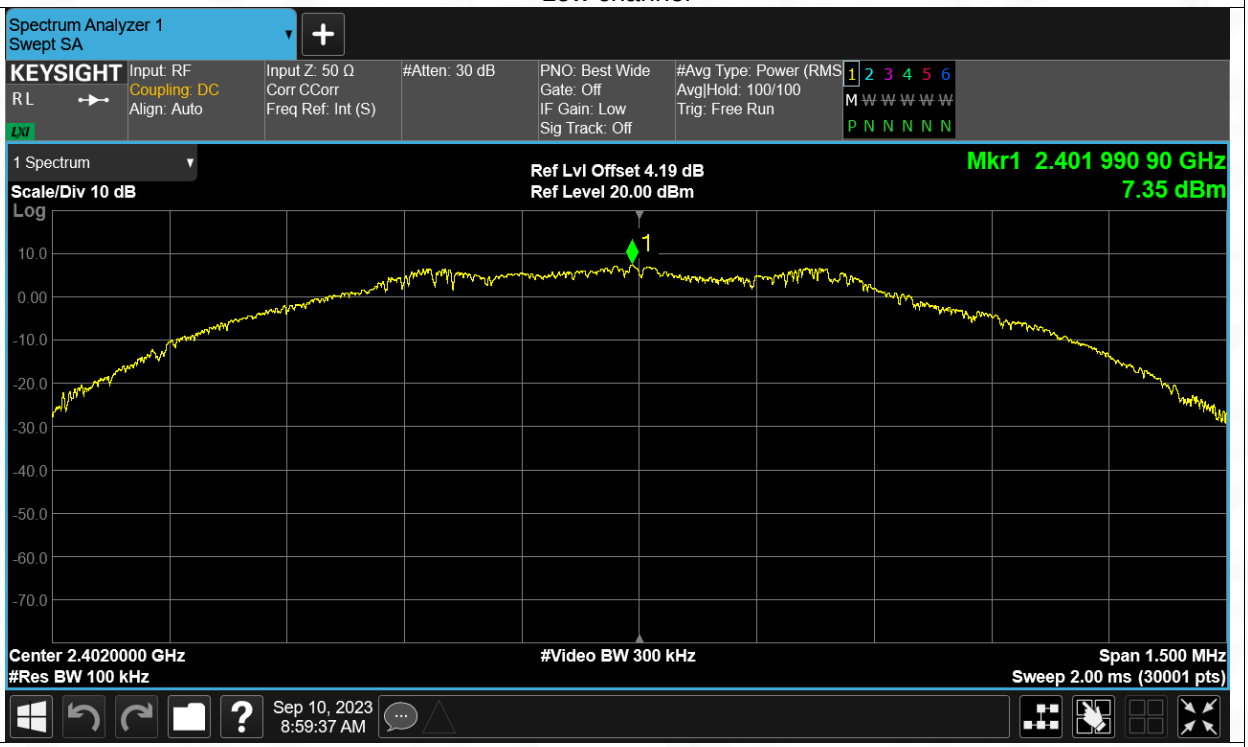
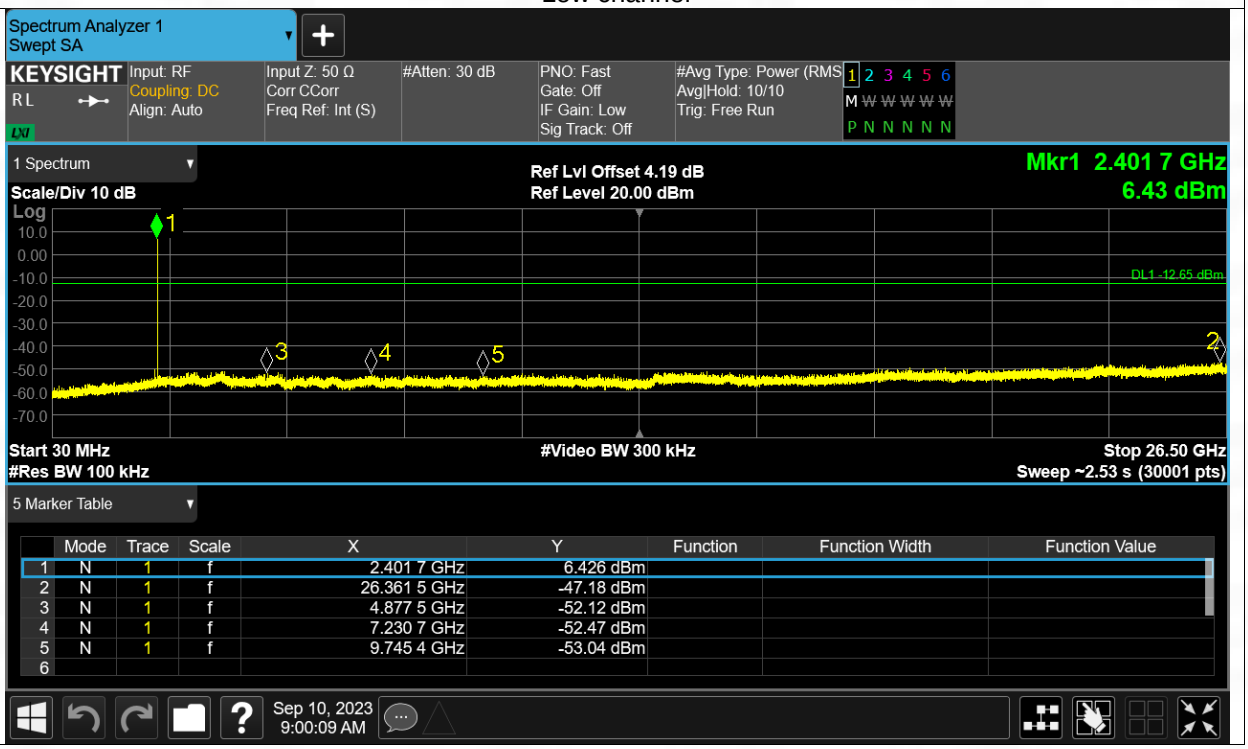
Conducted RF Spurious Emission

BLE 1M

Low channel




Low channel



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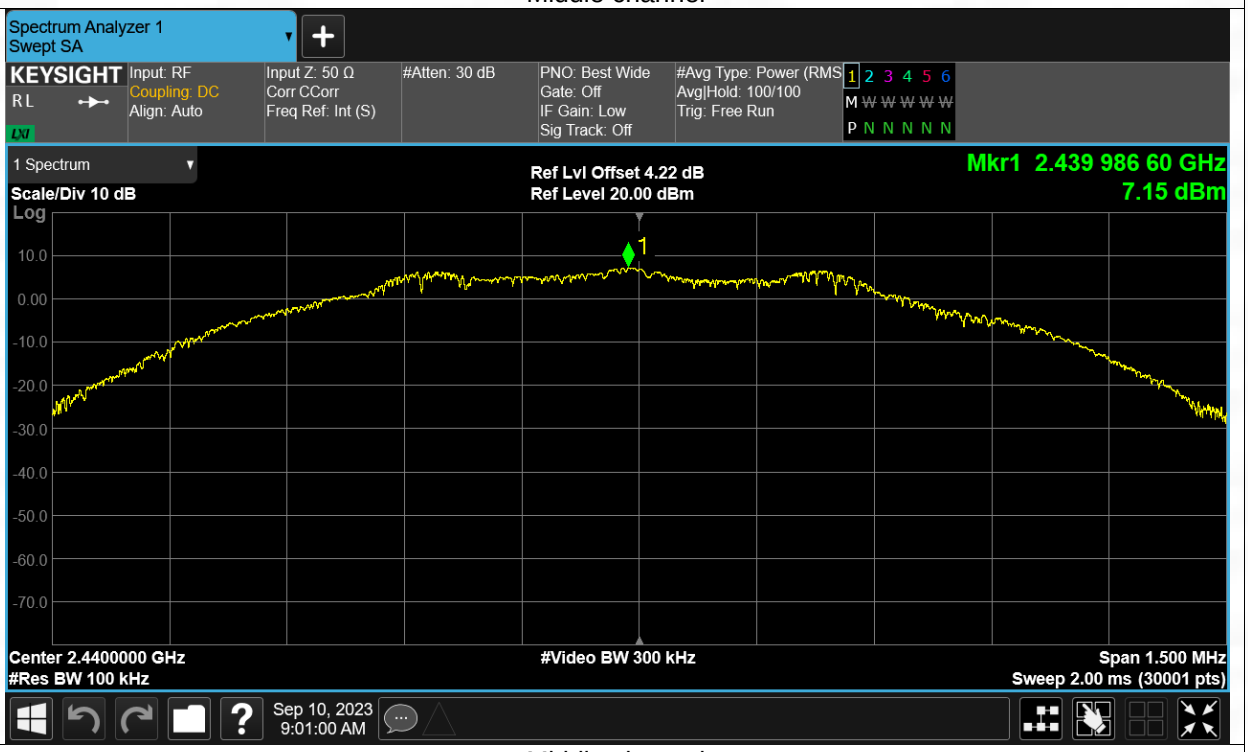
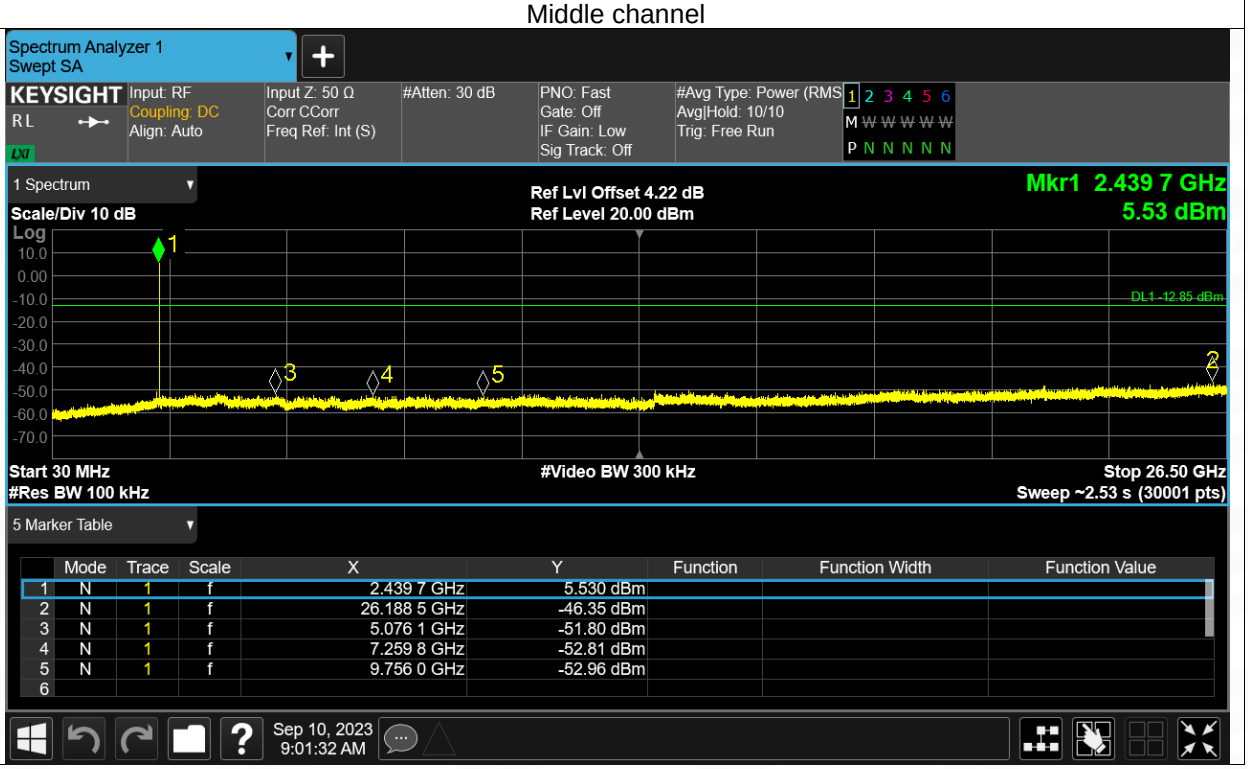
Middle channel




Middle channel




| | Mode | Trace | Scale | X | Y | Function | Function Width | Function Value |
|---|---|---|---|---|---|---|---|---|
| 1 | N | 1 | f | 2.439 7 GHz | 5.530 dBm | | | |
| 2 | N | 1 | f | 26.188 5 GHz | -46.35 dBm | | | |
| 3 | N | 1 | f | 5.076 1 GHz | -51.80 dBm | | | |
| 4 | N | 1 | f | 7.259 8 GHz | -52.81 dBm | | | |
| 5 | N | 1 | f | 9.756 0 GHz | -52.96 dBm | | | |
| 6 | | | | | | | | |



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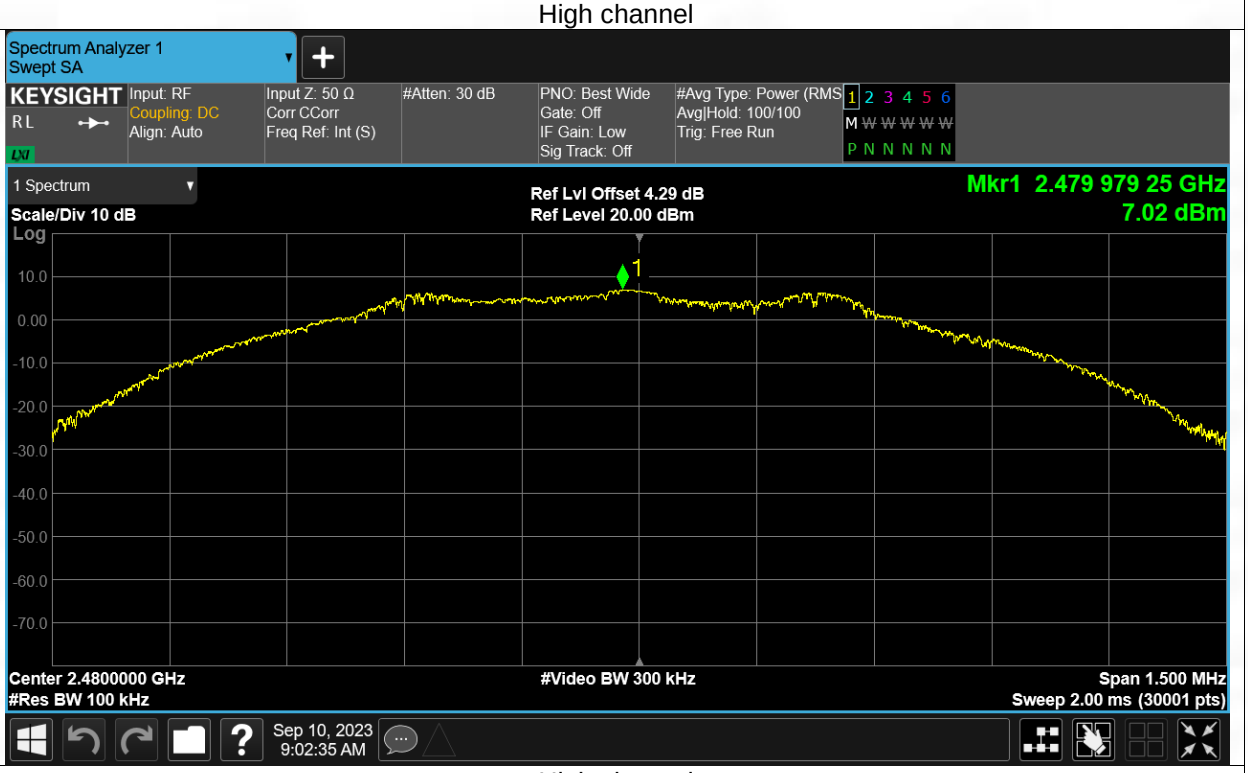
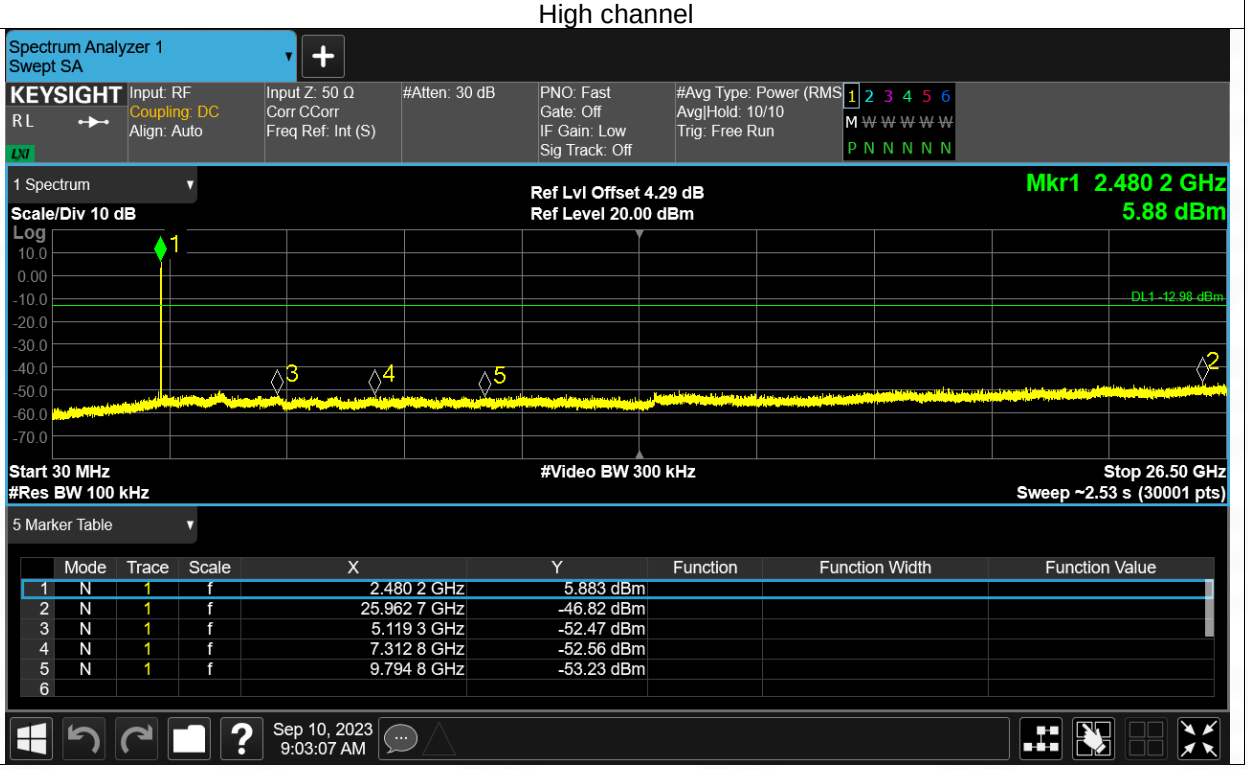
High channel




High channel




| | Mode | Trace | Scale | X | Y | Function | Function Width | Function Value |
|---|---|---|---|---|---|---|---|---|
| 1 | N | 1 | f | 2.480 2 GHz | 5.883 dBm | | | |
| 2 | N | 1 | f | 25.962 7 GHz | -46.82 dBm | | | |
| 3 | N | 1 | f | 5.119 3 GHz | -52.47 dBm | | | |
| 4 | N | 1 | f | 7.312 8 GHz | -52.56 dBm | | | |
| 5 | N | 1 | f | 9.794 8 GHz | -53.23 dBm | | | |
| 6 | | | | | | | | |



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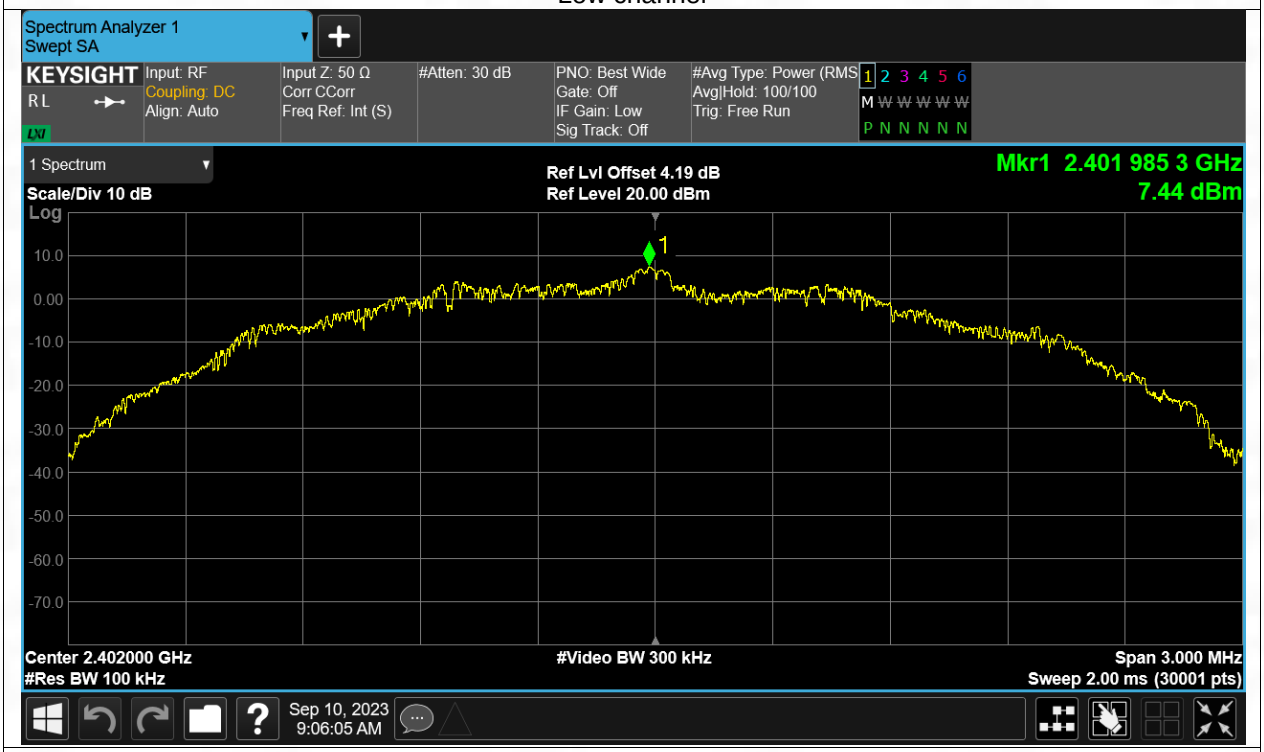
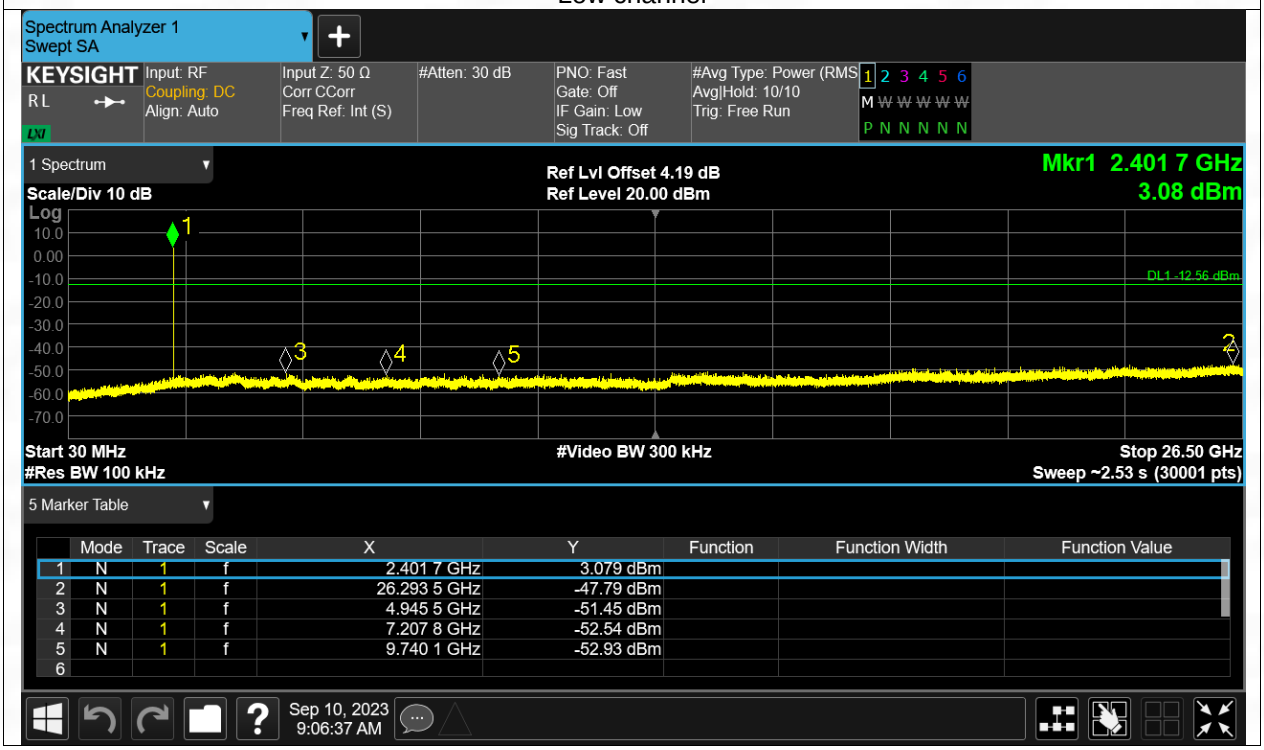
| BLE 2M |
| --- |
| Low channel |




| Low channel |
| --- |




| | Mode | Trace | Scale | X | Y | Function | Function Width | Function Value |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | N | 1 | f | 2.401 7 GHz | 3.079 dBm | | | |
| 2 | N | 1 | f | 26.293 5 GHz | -47.79 dBm | | | |
| 3 | N | 1 | f | 4.945 5 GHz | -51.45 dBm | | | |
| 4 | N | 1 | f | 7.207 8 GHz | -52.54 dBm | | | |
| 5 | N | 1 | f | 9.740 1 GHz | -52.93 dBm | | | |
| 6 | | | | | | | | |



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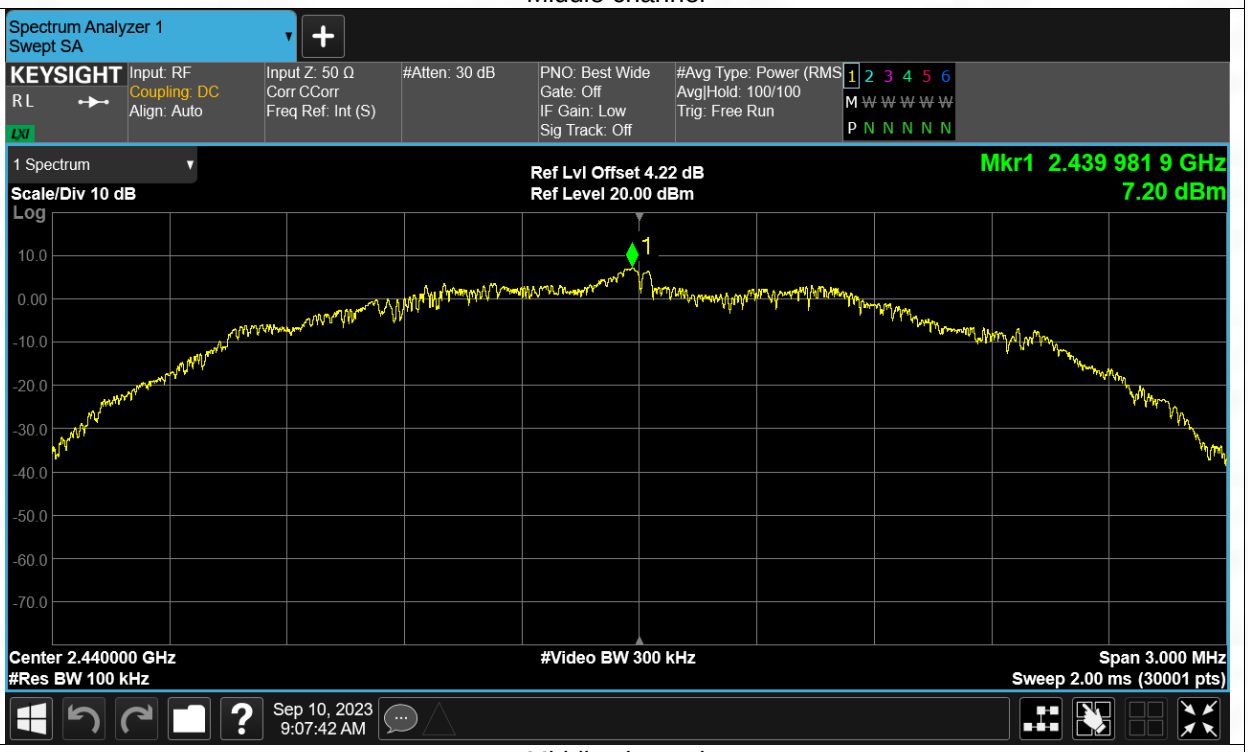
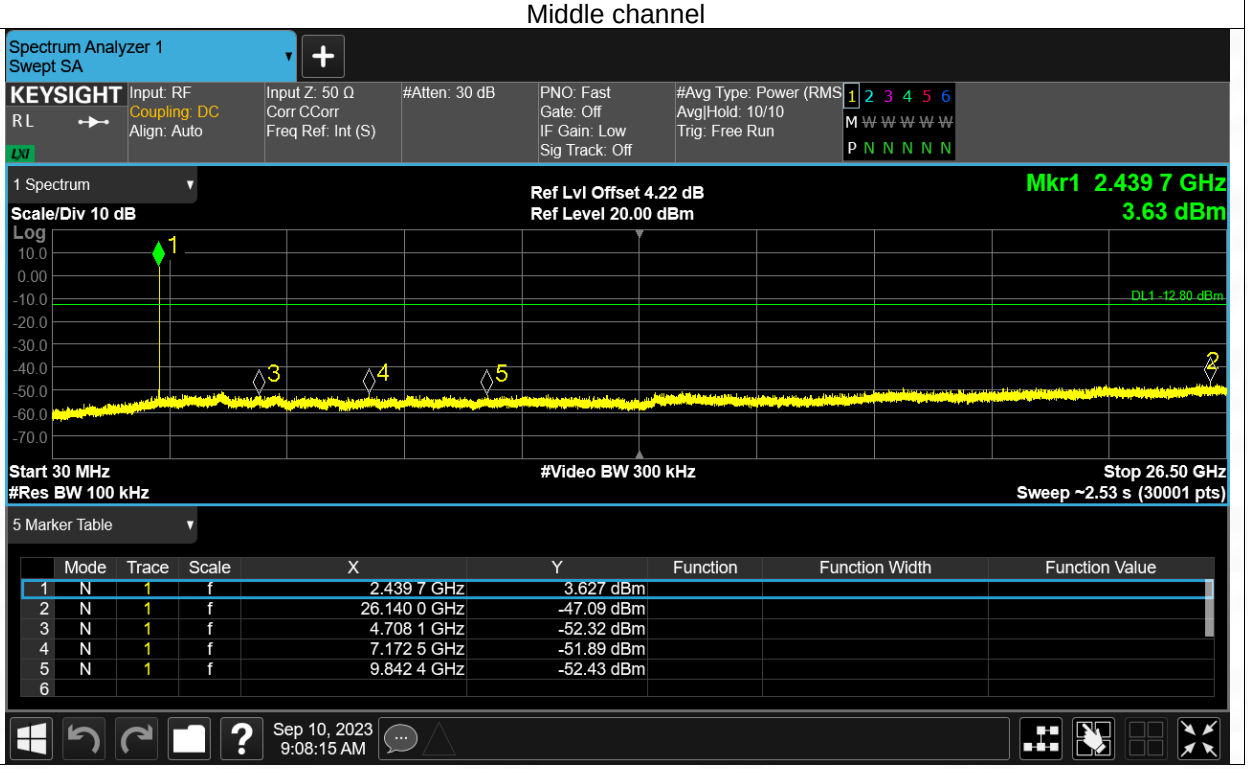
Middle channel




Middle channel




| | Mode | Trace | Scale | X | Y | Function | Function Width | Function Value |
|---|---|---|---|---|---|---|---|---|
| 1 | N | 1 | f | 2.439 7 GHz | 3.627 dBm | | | |
| 2 | N | 1 | f | 26.140 0 GHz | -47.09 dBm | | | |
| 3 | N | 1 | f | 4.708 1 GHz | -52.32 dBm | | | |
| 4 | N | 1 | f | 7.172 5 GHz | -51.89 dBm | | | |
| 5 | N | 1 | f | 9.842 4 GHz | -52.43 dBm | | | |
| 6 | | | | | | | | |



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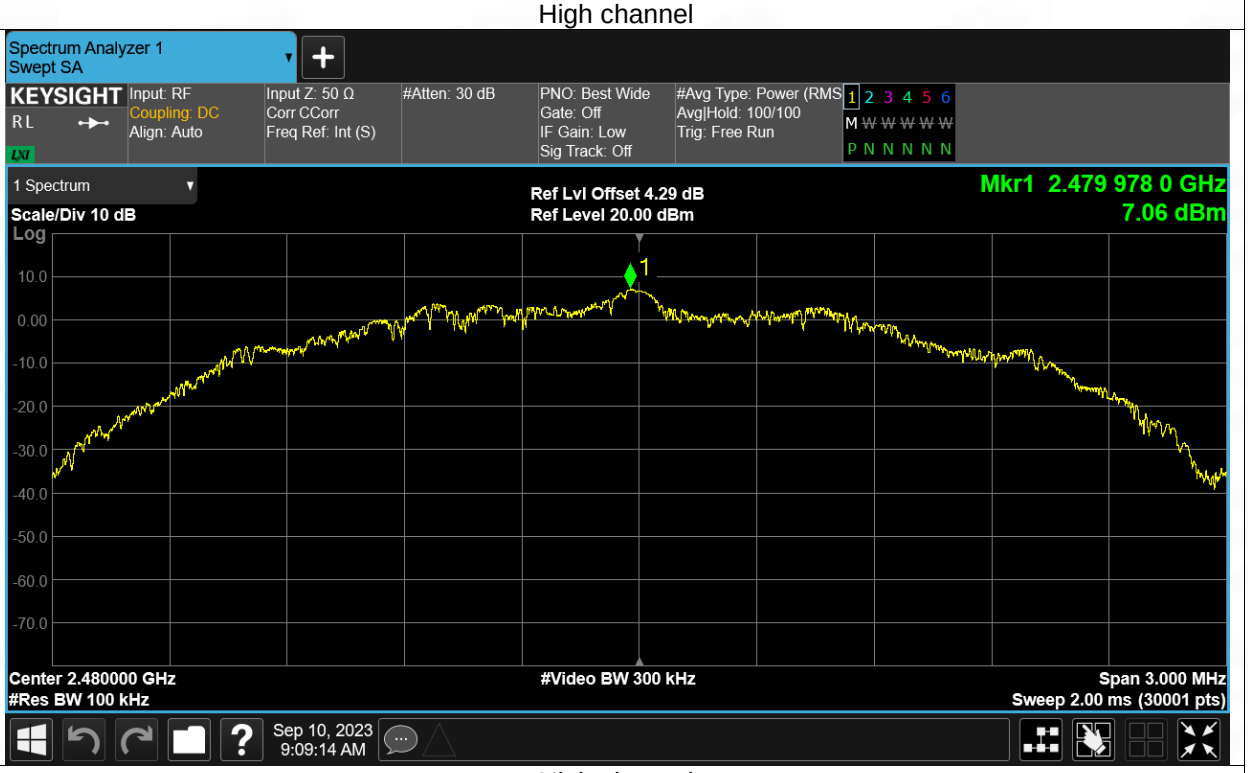
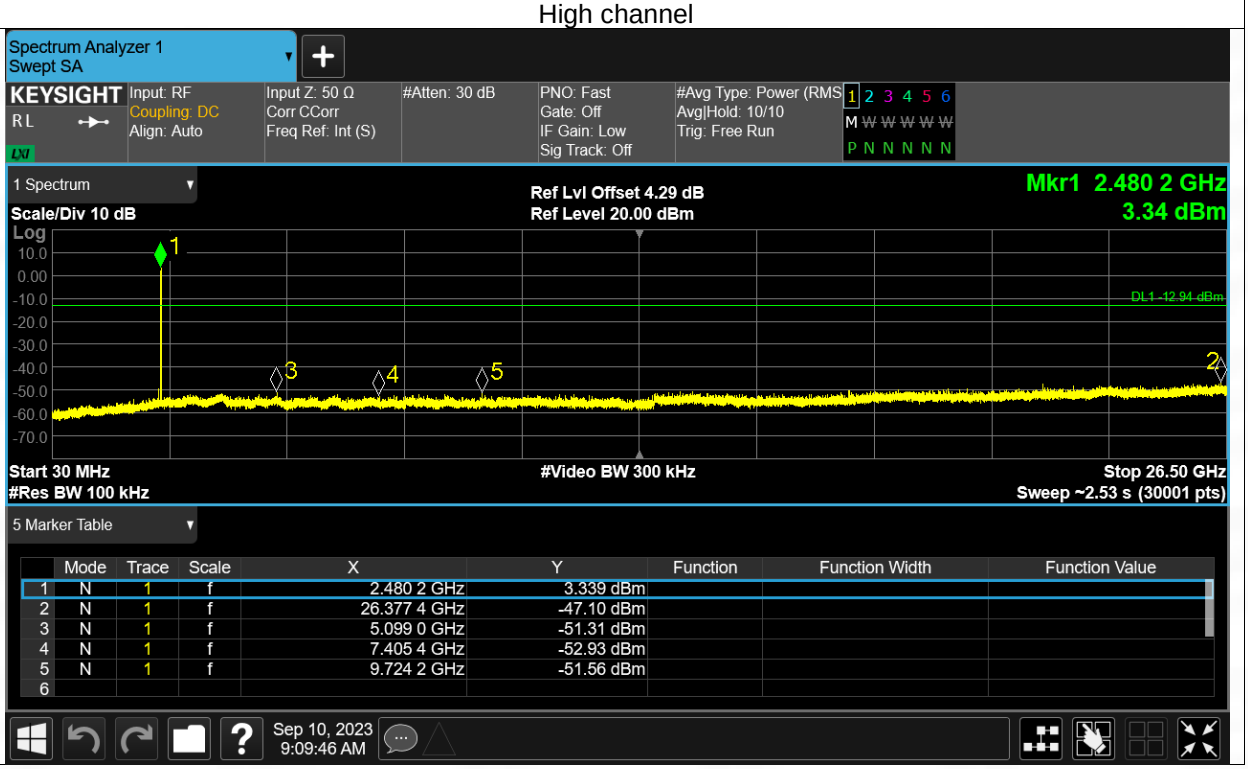
High channel




High channel




| | Mode | Trace | Scale | X | Y | Function | Function Width | Function Value |
|---|---|---|---|---|---|---|---|---|
| 1 | N | 1 | f | 2.480 2 GHz | 3.339 dBm | | | |
| 2 | N | 1 | f | 26.377 4 GHz | -47.10 dBm | | | |
| 3 | N | 1 | f | 5.099 0 GHz | -51.31 dBm | | | |
| 4 | N | 1 | f | 7.405 4 GHz | -52.93 dBm | | | |
| 5 | N | 1 | f | 9.724 2 GHz | -51.56 dBm | | | |
| 6 | | | | | | | | |



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