# FCC TEST REPORT

# FCC ID:2BEPG-BUV7TBLT10A

| | | |
|---|---|---|
| Product | : | TABLET PC |
| Model Name | : | BUV7TBLT10A |
| Brand | : | V7 |
| Report No. | : | PTC24010909601E-FC04 |

**Prepared for**

Ingram Micro Inc.

3351 Michelson Dr. Suite 100, Irvine, CA 92612, USA

**Prepared by**

Precise Testing & Certification Co., Ltd

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

# 1 TEST RESULT CERTIFICATION

| | | |
|---|---|---|
| Applicant's name | : | Ingram Micro Inc. |
| Address | : | 3351 Michelson Dr. Suite 100, Irvine, CA 92612, USA |
| Manufacture's name | : | Dongguan IProda Technology Co., Ltd. |
| Address | : | 2-6 FLOOR,C BUILDING,NO.99,YADI NAN 1 ROAD, SHANHE VILLAGE,QIAOTOU TOWN,DONGGUAN CITY,GUANGDONG PROVINCE ,CHINA |
| Product name | : | TABLET PC |
| Model name | : | BUV7TBLT10A |
| Standards | : | FCC CFR47 Part 15 Section 15.407 |
| Test procedure | : | ANSI C63.10:2013 |
| Test Date | : | Jan. 17, 2024 to Feb. 18, 2024 |
| Date of Issue | : | Feb. 18, 2024 |
| Test Result | : | Pass |

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Test Engineer:

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Technical Manager:

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# 2 Test Summary

| Test Items | Test Requirement | Result |
|---|---|---|
| Conduct Emission | 15.207 | PASS |
| Radiated Spurious Emissions | 15.205(a)<br>15.209<br>15.407(b) | PASS |
| Emission and Occupied Bandwidth | 15.407(a)(e) | PASS |
| Maximum Conducted Output Powe | 15.407(a) | PASS |
| Power Spectral Density | 15.407(a) | PASS |
| Frequency stability | 15.407 (g) | PASS |
| Antenna Requirement | 15.203 | PASS |

# 3 General Information

## 3.1 General Description of E.U.T.

| | | |
|---|---|---|
| Product Name | : | TABLET PC |
| Model Name | : | BUV7TBLT10A |
| Additional model | : | N/A |
| Specification | : | 802.11a/n HT20/HT40/ac20/ac40/ac80 |
| Operation Frequency | : | 5G Wifi:5150-5250 MHz<br>5.8G Wifi:5725MHz~5850MHz |
| Number of Channel | : | 4 channels for 802.11a/n20/ac20 5150-5250 MHz<br>5 channels for 802.11a/n20/ac20 5725MHz~5850MHz<br>2 channels for 802.11n40/ac40 5150-5250 MHz<br>2 channels for 802.11n40/ac40 5725MHz~5850MHz<br>1 channels for 802.11 ac80 |
| Type of Modulation | : | OFDM with BPSK/QPSK/16QAM/64QAM for 802.11n/a/ac |
| Antenna installation | : | FPC Antenna |
| Antenna Gain | : | 2.58 dBi |
| Power supply | : | Adapter:<br>Model: PS10UA050K2000UU<br>Input: 100-240V~50/60Hz 0.35MAX<br>Output:DC5V/2A<br>Battery Model: PL32105137<br>3.8V by Rechargeable Li-ion Battery, 7000mAh |
| Hardware Version | : | N/A |
| Software Version | : | N/A |
| Test sample No. | : | PTC24010909601E-1/2, PTC24010909601E-2/2 |

## 3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 6 Mbps; 802.11n (HT20): MCS0; 802.11ac: MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11 a/N20/N40/AC20/AC40

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---|---|---|---|---|---|
| 36 | 5180 | 46 | 5230 | 153 | 5765 |
| 38 | 5190 | 48 | 5240 | 157 | 5785 |
| 40 | 5200 | 149 | 5745 | 159 | 5795 |
| 44 | 5220 | 151 | 5755 | 161 | 5805 |
| | | | | 165 | 5825 |

Frequency and Channel list for 802.11 ac80:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---|---|---|---|---|---|
| 42 | 5210 | 155 | 5775 | / | / |

The maximum duty cycle as following table:

| Test Mode | Duty Cycle(%) |
|---|---|
| 802.11a | 100% |
| 802.11n/ac20 | 100% |
| 802.11n/ac40 | 100% |
| 802.11ac80 | 100% |

## 3.3 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

# 4 Equipment During Test

## 4.1 Equipments List

RF Conducted Test

| Name of Equipment | Manufacturer | Model | Serial No. | Characteristics | Last Calibration | Calibration Interval |
|---|---|---|---|---|---|---|
| MXG Signal Analyzer | Agilent | N9020A | SER MY5111038 | 10Hz-26.5GHz | Aug.17, 2023 | 1 Year |
| Coaxial Cable | CDS | 79254 | 46107086 | 10Hz-30GHz | Aug.17, 2023 | 1 Year |
| Power Meter | Anritsu | ML2495A | 0949003 | 300MHz-40GHz | Aug.17, 2023 | 1 Year |
| Power Sensor | Anritsu | MA2411B | 0917017 | 300MHz-40GHz | Aug.17, 2023 | 1 Year |
| Test S/W | Tonscend | JS1120-3 | / | / | / | / |

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

| Name of Equipment | Manufacturer | Model | Serial No. | Characteristics | Last Calibration | Calibration Interval |
|---|---|---|---|---|---|---|
| EMI Test Receiver | Rohde&Schwarz | ESPI7 | 101671 | 9KHz-7GHz | Aug. 17,2023 | 1 Year |
| Loop Antenna | Schwarzbeck | FMZB 1519 | 192 | 9 KHz -30MHz | Aug. 17,2023 | 1 Year |
| Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3355 | 25MHz-2GHz | Aug. 17,2023 | 1 Year |
| Preamplifier (low frequency) | SCHWARZBECK | BBV 9475 | 9745-0013 | 1MHz-1GHz | Aug. 17,2023 | 1 Year |
| Cable | IMRO | AK-9515E(9m) | Cable-L | 9KHz-3GHz | Aug. 17,2023 | 1 Year |
| Spectrum Analyzer | Rohde&Schwarz | FSV40 | 6625-01-588-5515 | 9KHz-40GHz | Aug. 17,2023 | 1 Year |
| Horn Antenna | SCHWARZBECK | 9120D | 9120D-1246 | 1GHz-18GHz | Aug. 17,2023 | 1 Year |
| Power Amplifier | ZHINAN | ZN3380C | 15002 | 1GHz-26.5GHz | Aug. 17,2023 | 1 Year |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | 9170-1066 | 15GHz-40GHz | Jul. 19, 2023 | 1 Year |

| | | | | | | |
|---|---|---|---|---|---|---|
| Amplifier | SCHWARZBECK | BBV 9721 | 9721-205 | 18GHz-40GHz | Jul. 19, 2023 | 1 Year |
| Cable | H+S | CBL-26 | N/A | 1GHz-26.5GHz | Aug. 17,2023 | 1 Year |
| RF Cable | R&S | R204 | R21X | 1GHz-40GHz | Aug. 17,2023 | 1 Year |
| Test S/W | Tonscend | TS+ | / | / | / | / |

Conducted Emissions

| Name of Equipment | Manufacturer | Model | Serial No. | Characteristics | Last Calibration | Calibration Interval |
|---|---|---|---|---|---|---|
| EMI Test Receiver | Rohde&Schwarz | ESCI | 101417 | 9KHz-3GHz | Aug. 17,2023 | 1 Year |
| Artificial Mains Network | Rohde&Schwarz | ENV216 | 102453 | 9KHz-300MHz | Aug. 17,2023 | 1 Year |
| Artificial Mains Network | Rohde&Schwarz | ENV216 | 101342 | 9KHz-300MHz | Aug. 17,2023 | 1 Year |
| Limiter | R&S | ESH3-Z2 | 0357.8810.54-102808-NB | 0Hz-30MHz | Aug. 16,2023 | 1 Year |
| RF Switch | DIAMOND ANTENNA | CX-210 | / | 0.09MHz-6GHz | Mar. 24,2023 | 1 Year |
| Test S/W | Tonscend | JS32-CE | / | / | / | / |

## 4.2 Measurement Uncertainty

| Parameter | Uncertainty |
|---|---|
| RF output power, conducted | ±1.0dB |
| Power Spectral Density, conducted | ±2.2dB |
| Radio Frequency | ± 1 x $10^{-6}$ |
| Bandwidth | ± 1.5 x $10^{-6}$ |
| Time | ±2% |
| Duty Cycle | ±2% |
| Temperature | ±1°C |
| Humidity | ±5% |
| DC and low frequency voltages | ±3% |
| Conducted Emissions (150kHz~30MHz) | ±3.64dB |
| Radiated Emission(9kHz~30MHz) | ±3.15dB |
| Radiated Emission(30MHz~1GHz) | ±5.03dB |
| Radiated Emission(1GHz~18GHz) | ±4.74dB |
| Radiated Emission(18GHz~40GHz) | ±3.20dB |

## 4.3 Description of Support Units

| Equipment | Model No. | Series No. |
|---|---|---|
| N/A | N/A | N/A |

# 5 Conducted Emission

| | | |
|---|---|---|
| Test Requirement: | : | FCC CFR 47 Part 15 Section 15.207 |
| Test Method | : | ANSI C63.10: 2013 |
| Test Result | : | PASS |
| Frequency Range | : | 150kHz to 30MHz |
| Class/Severity | : | Class B |

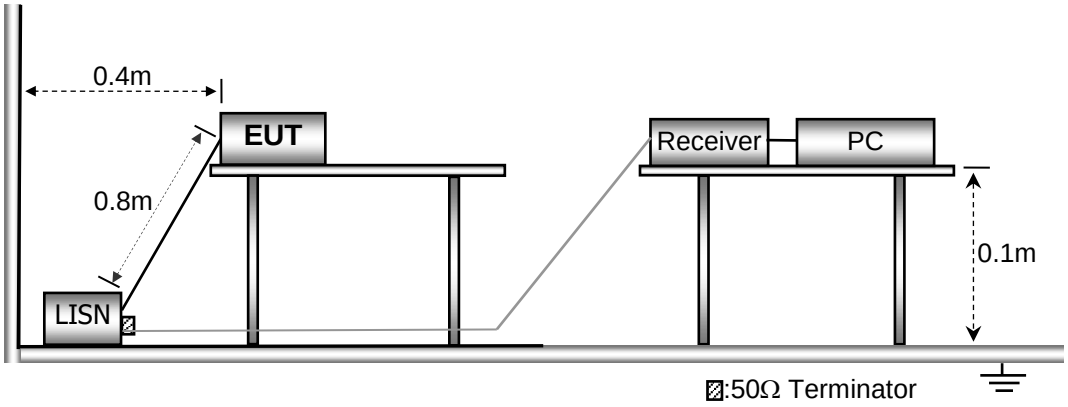
## 5.1 E.U.T. Operation

Operating Environment :

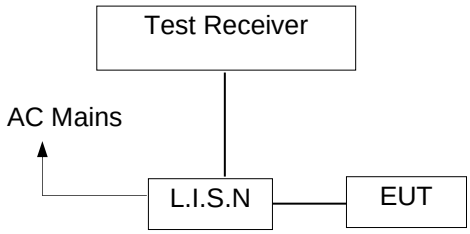
| | | |
|---|---|---|
| Temperature | : | 23.9 °C |
| Humidity | : | 51.4 % RH |
| Atmospheric Pressure | : | 101.21kPa |

## 5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



## 5.3 Test SET-UP (Block Diagram of Configuration)




## 5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.1m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

## 5.5 Conducted Emission Limit

**Conducted Emission**

| Frequency(MHz) | Quasi-peak | Average |
|---|---|---|
| 0.15-0.5 | 66-56 | 56-46 |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |

**Note:**
1. The lower limit shall apply at the transition frequencies
2.The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

## 5.6 Measurement Description

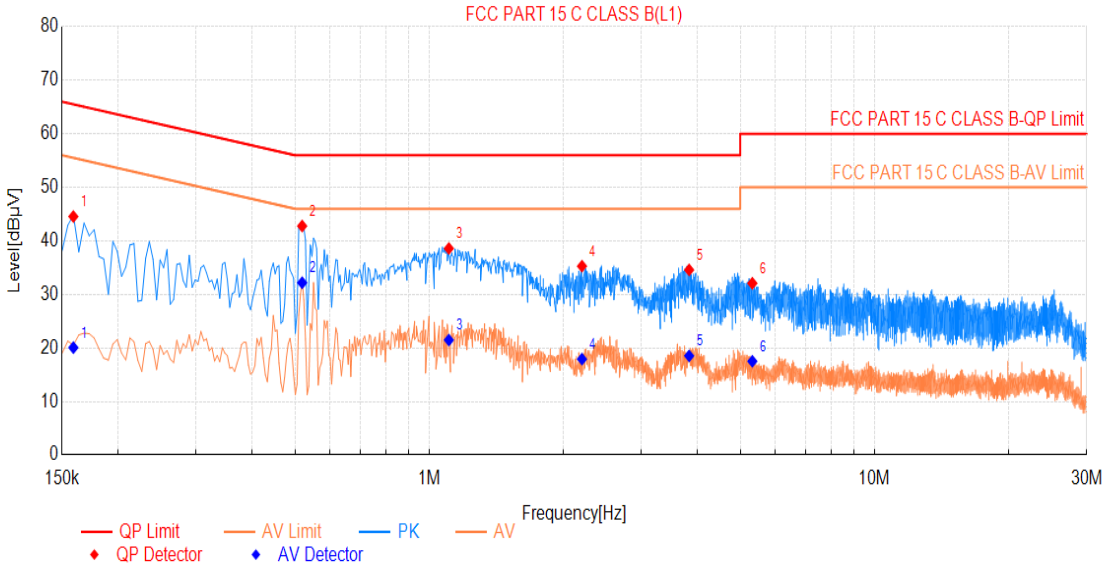
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

## 5.7 Conducted Emission Test Result

Pass.

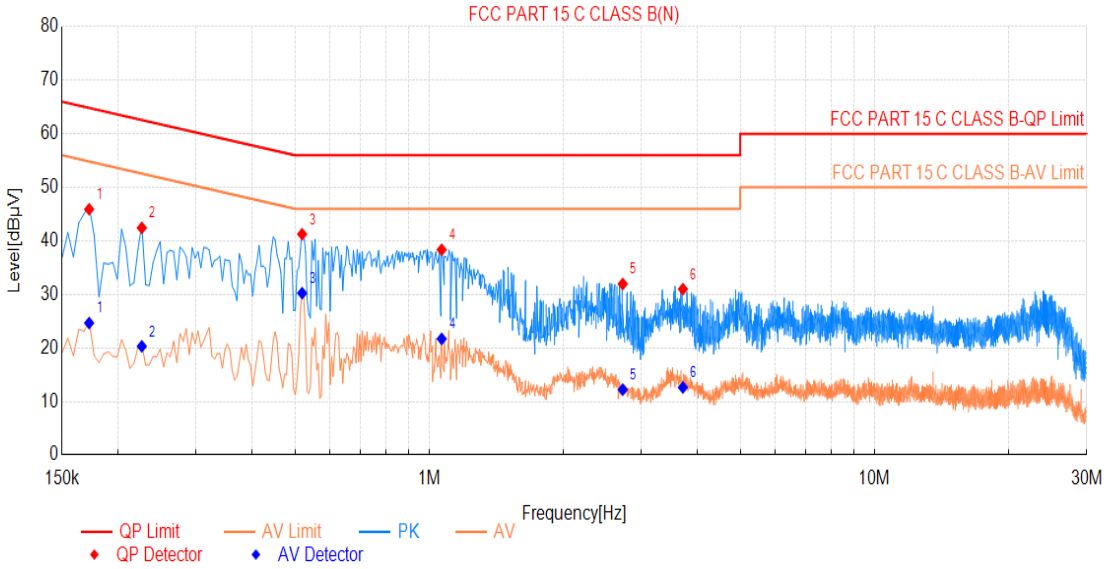
All the modulation modes were tested the data of the worst mode (AC 120V/60Hz, TX 5180MHz) are recorded in the following pages and the others modulation methods do not exceed the limits.

Line-AC 120V/60Hz




| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
| 1 | 0.159 | 44.55 | 65.52 | 20.97 | 20.07 | 55.52 | 35.45 | PASS |
| 2 | 0.519 | 42.78 | 56.00 | 13.22 | 32.18 | 46.00 | 13.82 | PASS |
| 3 | 1.1085 | 38.59 | 56.00 | 17.41 | 21.48 | 46.00 | 24.52 | PASS |
| 4 | 2.2065 | 35.28 | 56.00 | 20.72 | 17.92 | 46.00 | 28.08 | PASS |
| 5 | 3.84 | 34.58 | 56.00 | 21.42 | 18.52 | 46.00 | 27.48 | PASS |
| 6 | 5.325 | 32.08 | 60.00 | 27.92 | 17.51 | 50.00 | 32.49 | PASS |

Neutral-AC 120V/60Hz




| Final Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
| 1 | 0.1725 | 45.90 | 64.84 | 18.94 | 24.66 | 54.84 | 30.18 | PASS |
| 2 | 0.2265 | 42.44 | 62.58 | 20.14 | 20.31 | 52.58 | 32.27 | PASS |
| 3 | 0.519 | 41.26 | 56.00 | 14.74 | 30.24 | 46.00 | 15.76 | PASS |
| 4 | 1.068 | 38.35 | 56.00 | 17.65 | 21.71 | 46.00 | 24.29 | PASS |
| 5 | 2.724 | 31.96 | 56.00 | 24.04 | 12.22 | 46.00 | 33.78 | PASS |
| 6 | 3.7185 | 30.99 | 56.00 | 25.01 | 12.62 | 46.00 | 33.38 | PASS |

# 6 Radiated Spurious Emissions

| | | |
|---|---|---|
| Test Requirement | : | FCC CFR47 Part 15 Section 15.209 & 15.407(b) |
| Test Method | : | ANSI C63.10:2013 |
| Test Result | : | PASS |
| Measurement Distance | : | 3m |

Limit

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band

shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

Further.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength | | Field Strength Limit at 3m Measurement Dist | |
|---|---|---|---|---|
| | uV/m | Distance (m) | uV/m | dBuV/m |
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 | 10000 * 2400/F(kHz) | $20\log^{(2400/F(kHz))} + 80$ |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 | 100 * 24000/F(kHz) | $20\log^{(24000/F(kHz))} + 40$ |
| 1.705 ~ 30 | 30 | 30 | 100 * 30 | $20\log^{(30)} + 40$ |
| 30 ~ 88 | 100 | 3 | 100 | $20\log^{(100)}$ |
| 88 ~ 216 | 150 | 3 | 150 | $20\log^{(150)}$ |
| 216 ~ 960 | 200 | 3 | 200 | $20\log^{(200)}$ |
| Above 960 | 500 | 3 | 500 | $20\log^{(500)}$ |

## 6.1 EUT Operation

Operating Environment :

Temperature: : 24.5 °C

Humidity: : 52 % RH

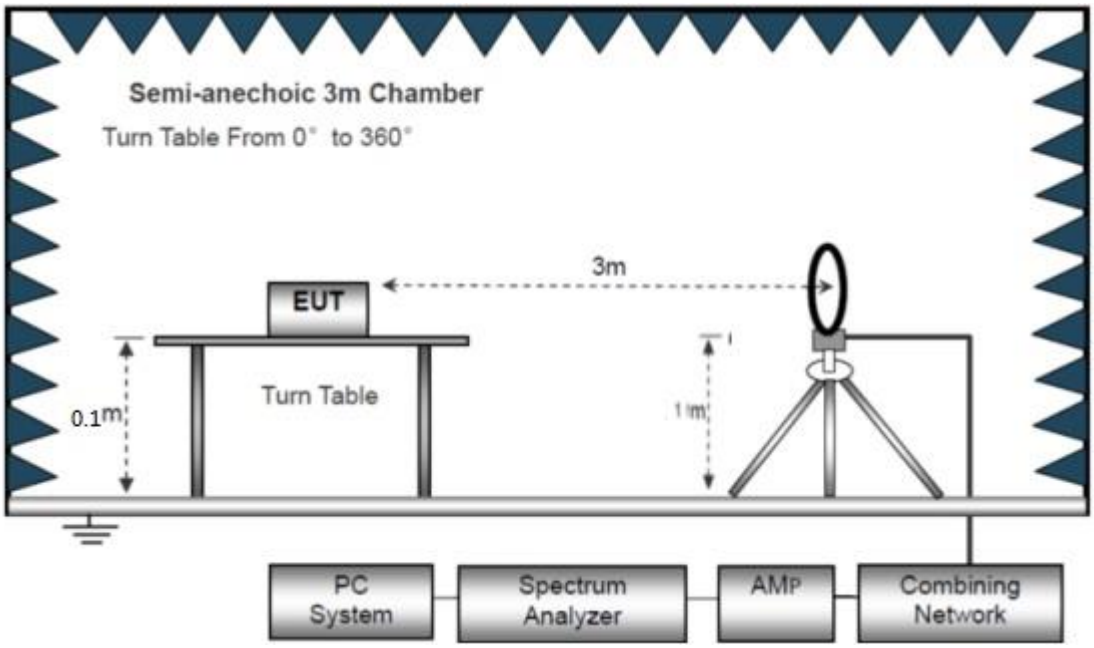
Atmospheric Pressure: : 101.3kPa

Test Voltage : AC 120V 60Hz

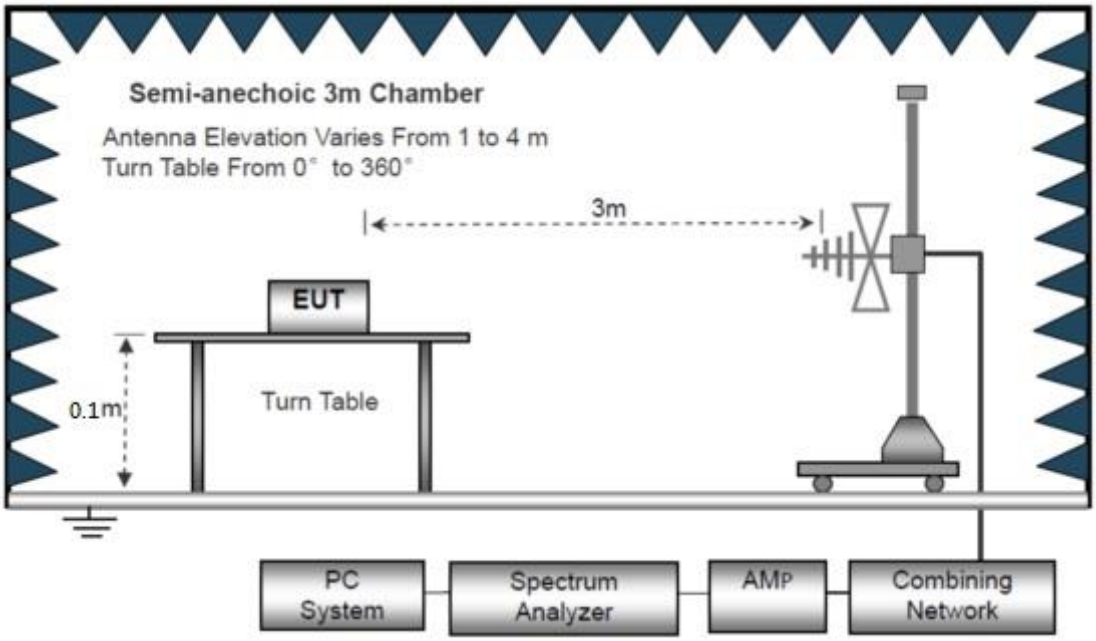
## 6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

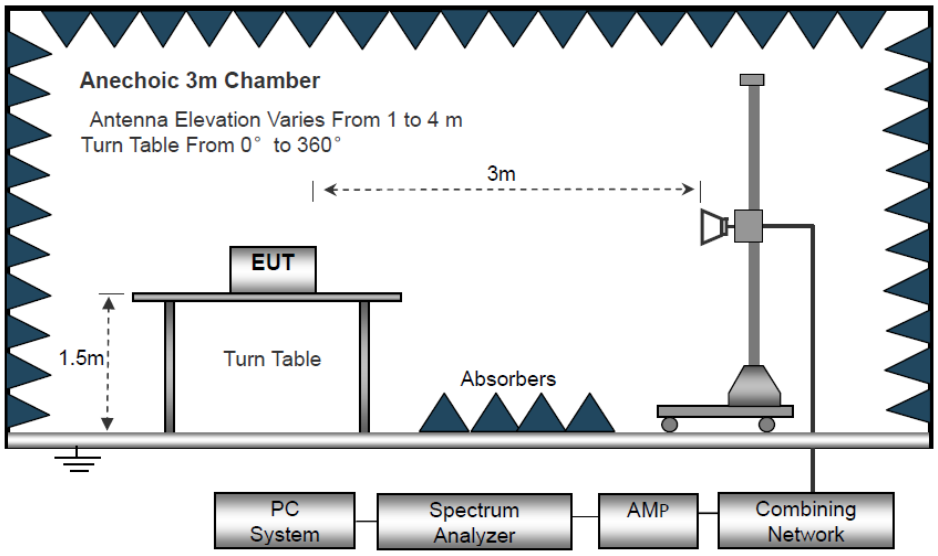
The test setup for emission measurement below 30MHz




The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz




## 6.3 Spectrum Analyzer Setup

| | Frequency | Detector | RBW | VBW | Remark |
|---|---|---|---|---|---|
| Receiver Setup | Below 30MHz | -- | 10kHz | 10kHz | -- |
| | 30MHz ~ 1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | | RMS | 1MHz | 3MHz | Average Value |

## 6.4 Test Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.

5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

6. Repeat above procedures until the measurements for all frequencies are complete.

7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room

## 6.5 Summary of Test Results

**Test Frequency: 9KHz-30MHz**

| Freq. (MHz) | Ant.Pol. H/V | Emission Level (dBuV/m) | Limit 3m (dBuV/m) | Over (dB) |
|---|---|---|---|---|
| -- | -- | -- | -- | >20 |

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

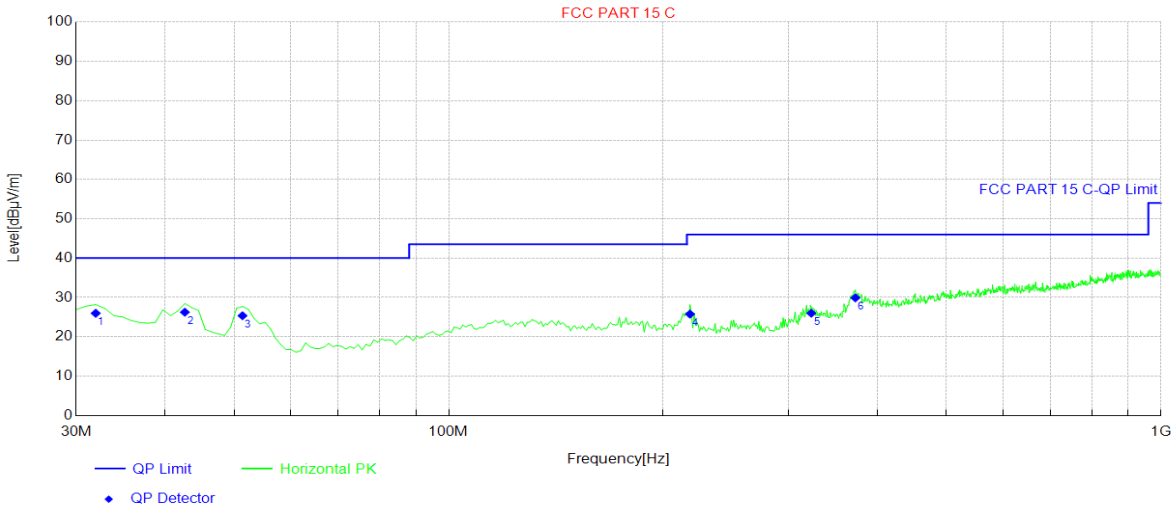
Distance extrapolation factor =40log(Specific distance/ test distance)( dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

**Test Frequency: 30MHz ~ 1GHz**

All the modulation modes were tested the data of the worst mode (TX 802.11a Channel 36，CH149) are recorded in the following pages and the others modulation methods do not exceed the limits.

Please refer to the following test plots:

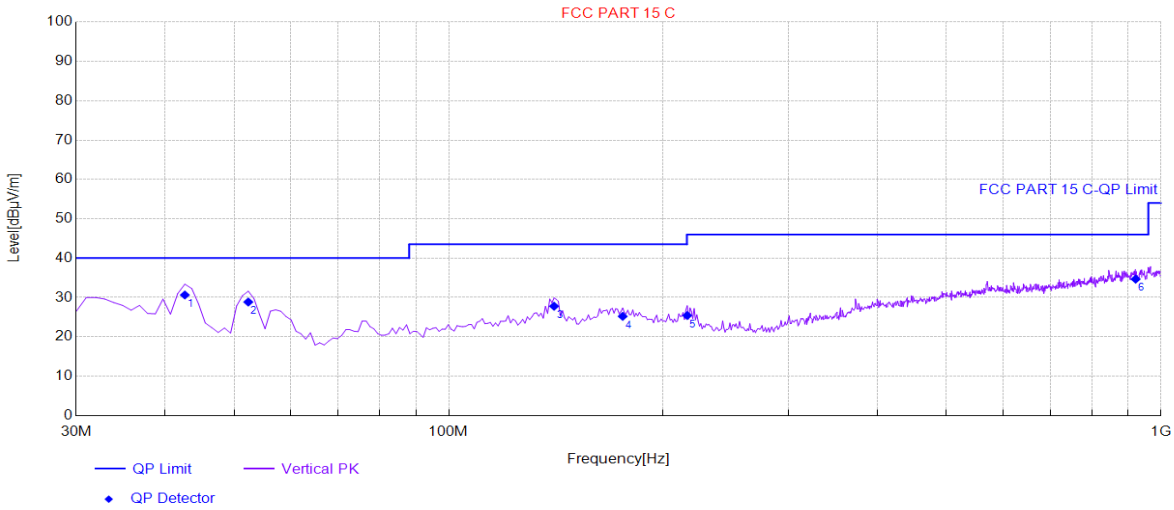
Antenna Polarization: Horizontal(CH36)




| Final Data List[QP] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | QP Reading [dBμV] | Factor [dB/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Polarity | Verdict |
| 1 | 31.94 | 40.05 | -14.07 | 25.98 | 40.00 | 14.02 | Horizontal | PASS |
| 2 | 42.61 | 45.35 | -19.09 | 26.26 | 40.00 | 13.74 | Horizontal | PASS |
| 3 | 51.34 | 47.86 | -22.51 | 25.35 | 40.00 | 14.65 | Horizontal | PASS |
| 4 | 218.18 | 44.96 | -19.19 | 25.77 | 46.00 | 20.23 | Horizontal | PASS |
| 5 | 322.94 | 43.42 | -17.43 | 25.99 | 46.00 | 20.01 | Horizontal | PASS |
| 6 | 372.41 | 44.46 | -14.56 | 29.90 | 46.00 | 16.10 | Horizontal | PASS |

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Antenna Polarization: Vertical (CH36)




| Final Data List[QP] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | QP Reading [dBµV] | Factor [dB/m] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Polarity | Verdict |
| 1 | 42.61 | 49.72 | -19.09 | 30.63 | 40.00 | 9.37 | Vertical | PASS |
| 2 | 52.31 | 51.54 | -22.70 | 28.84 | 40.00 | 11.16 | Vertical | PASS |
| 3 | 140.58 | 45.57 | -17.80 | 27.77 | 43.50 | 15.73 | Vertical | PASS |
| 4 | 175.50 | 44.64 | -19.44 | 25.20 | 43.50 | 18.30 | Vertical | PASS |
| 5 | 216.24 | 44.63 | -19.22 | 25.41 | 46.00 | 20.59 | Vertical | PASS |
| 6 | 921.43 | 39.91 | -5.25 | 34.66 | 46.00 | 11.34 | Vertical | PASS |

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor
Note: only the worst case recorded in the report.

## Test Frequency: From 1GHz to 40GHz

Pre-scan all test modes

Only the worst case Main test data.

802.11a

| Test Mode: 5180 | | | | | Test channel: Lowest | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360 | 47.36 | 35.22 | 5.36 | 31.25 | 56.69 | 68.2 | -11.51 | V |
| 15540 | 42.32 | 35.96 | 7.85 | 30.63 | 55.50 | 68.2 | -12.70 | V |
| 20720 | 43.23 | 39.12 | 8.56 | 34.95 | 55.96 | 68.2 | -12.24 | V |
| 10360 | 48.08 | 34.12 | 5.36 | 31.25 | 56.31 | 68.2 | -11.89 | H |
| 15540 | 42.65 | 36.52 | 7.85 | 30.63 | 56.39 | 68.2 | -11.81 | H |
| 20720 | 43.08 | 40.01 | 8.56 | 34.95 | 56.70 | 68.2 | -11.50 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360 | 32.97 | 35.22 | 5.36 | 31.25 | 42.30 | 54 | -11.70 | V |
| 15540 | 30.42 | 35.96 | 7.85 | 30.63 | 43.60 | 54 | -10.40 | V |
| 20720 | 27.90 | 39.12 | 8.56 | 34.95 | 40.63 | 54 | -13.37 | V |
| 10360 | 32.70 | 34.12 | 5.36 | 31.25 | 40.93 | 54 | -13.07 | H |
| 15540 | 24.48 | 36.52 | 7.85 | 30.63 | 38.22 | 54 | -15.78 | H |
| 20720 | 27.22 | 40.01 | 8.56 | 34.95 | 40.84 | 54 | -13.16 | H |

| Test Mode:5200 | | | | | Test channel: Middle | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400 | 47.82 | 35.63 | 5.36 | 31.25 | 57.56 | 68.2 | -10.64 | V |
| 15600 | 43.20 | 35.91 | 7.85 | 30.63 | 56.33 | 68.2 | -11.87 | V |
| 20800 | 44.10 | 39.67 | 8.56 | 34.95 | 57.38 | 68.2 | -10.82 | V |
| 10400 | 46.94 | 34.25 | 5.36 | 31.25 | 55.30 | 68.2 | -12.90 | H |
| 15600 | 41.91 | 37.02 | 7.85 | 30.63 | 56.15 | 68.2 | -12.05 | H |
| 20800 | 43.28 | 38.88 | 8.56 | 34.95 | 55.77 | 68.2 | -12.43 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400 | 33.86 | 35.63 | 5.36 | 31.25 | 43.60 | 54 | -10.40 | V |
| 15600 | 28.99 | 35.91 | 7.85 | 30.63 | 42.12 | 54 | -11.88 | V |
| 20800 | 29.45 | 39.67 | 8.56 | 34.95 | 42.73 | 54 | -11.27 | V |
| 10400 | 33.20 | 34.25 | 5.36 | 31.25 | 41.56 | 54 | -12.44 | H |
| 15600 | 28.79 | 37.02 | 7.85 | 30.63 | 43.03 | 54 | -10.97 | H |
| 20800 | 29.83 | 38.88 | 8.56 | 34.95 | 42.32 | 54 | -11.68 | H |

802.11a

| Test Mode:5240 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480 | 45.62 | 34.68 | 5.36 | 31.25 | 54.41 | 68.2 | -13.79 | V |
| 17520 | 43.22 | 36.52 | 7.85 | 30.63 | 56.96 | 68.2 | -11.24 | V |
| 20960 | 44.20 | 38.77 | 8.56 | 34.95 | 56.58 | 68.2 | -11.62 | V |
| 10480 | 46.97 | 33.99 | 5.36 | 31.25 | 55.07 | 68.2 | -13.13 | H |
| 17520 | 44.98 | 36.84 | 7.85 | 30.63 | 59.04 | 68.2 | -9.16 | H |
| 20960 | 46.39 | 39.93 | 8.56 | 34.95 | 59.93 | 68.2 | -8.27 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480 | 33.37 | 34.68 | 5.36 | 31.25 | 42.16 | 54 | -11.84 | V |
| 17520 | 28.99 | 36.52 | 7.85 | 30.63 | 42.73 | 54 | -11.27 | V |
| 20960 | 30.01 | 38.77 | 8.56 | 34.95 | 42.39 | 54 | -11.61 | V |
| 10480 | 32.02 | 33.99 | 5.36 | 31.25 | 40.12 | 54 | -13.88 | H |
| 17520 | 26.91 | 36.84 | 7.85 | 30.63 | 40.97 | 54 | -13.03 | H |
| 20960 | 29.12 | 39.93 | 8.56 | 34.95 | 42.66 | 54 | -11.34 | H |

802.11a

| Test Mode: 5745 | | | | | Test channel: Lowest | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490 | 47.56 | 35.26 | 5.42 | 31.75 | 56.49 | 68.23 | -11.74 | V |
| 17235 | 42.50 | 36.88 | 7.32 | 30.96 | 55.74 | 68.23 | -12.49 | V |
| 22980 | 44.22 | 39.14 | 8.85 | 35.25 | 56.96 | 68.23 | -11.27 | V |
| 11490 | 49.57 | 34.21 | 5.42 | 31.75 | 57.45 | 68.23 | -10.78 | H |
| 17235 | 44.21 | 37.52 | 7.32 | 30.96 | 58.09 | 68.23 | -10.14 | H |
| 22980 | 44.31 | 39.88 | 8.85 | 35.25 | 57.79 | 68.23 | -10.44 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490 | 32.16 | 35.26 | 5.42 | 31.75 | 41.09 | 54 | -12.91 | V |
| 17235 | 30.21 | 36.88 | 7.32 | 30.96 | 43.45 | 54 | -10.55 | V |
| 22980 | 29.77 | 39.14 | 8.85 | 35.25 | 42.51 | 54 | -11.49 | V |
| 11490 | 31.64 | 34.21 | 5.42 | 31.75 | 39.52 | 54 | -14.48 | H |
| 17235 | 29.00 | 37.52 | 7.32 | 30.96 | 42.88 | 54 | -11.12 | H |
| 22980 | 28.98 | 39.88 | 8.85 | 35.25 | 42.46 | 54 | -11.54 | H |

802.11a

| Test Mode:5785 | | | | | Test channel: Middle | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570 | 48.54 | 35.26 | 5.42 | 31.75 | 57.47 | 68.23 | -10.76 | V |
| 17355 | 44.54 | 36.88 | 7.32 | 30.96 | 57.78 | 68.23 | -10.45 | V |
| 23140 | 45.30 | 39.14 | 8.85 | 35.25 | 58.04 | 68.23 | -10.19 | V |
| 11570 | 48.60 | 34.21 | 5.42 | 31.75 | 56.48 | 68.23 | -11.75 | H |
| 17355 | 42.16 | 37.52 | 7.32 | 30.96 | 56.04 | 68.23 | -12.19 | H |
| 23140 | 43.15 | 39.88 | 8.85 | 35.25 | 56.63 | 68.23 | -11.60 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570 | 33.02 | 35.26 | 5.42 | 31.75 | 41.95 | 54 | -12.05 | V |
| 17355 | 29.31 | 36.88 | 7.32 | 30.96 | 42.55 | 54 | -11.45 | V |
| 23140 | 28.54 | 39.14 | 8.85 | 35.25 | 41.28 | 54 | -12.72 | V |
| 11570 | 34.77 | 34.21 | 5.42 | 31.75 | 42.65 | 54 | -11.35 | H |
| 17355 | 29.33 | 37.52 | 7.32 | 30.96 | 43.21 | 54 | -10.79 | H |
| 23140 | 29.60 | 39.88 | 8.85 | 35.25 | 43.08 | 54 | -10.92 | H |

802.11a

| Test Mode:5825 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650 | 48.76 | 35.26 | 5.42 | 31.75 | 57.69 | 68.23 | -10.54 | V |
| 17475 | 44.76 | 36.88 | 7.32 | 30.96 | 58.00 | 68.23 | -10.23 | V |
| 23300 | 45.45 | 39.14 | 8.85 | 35.25 | 58.19 | 68.23 | -10.04 | V |
| 11650 | 49.39 | 34.21 | 5.42 | 31.75 | 57.27 | 68.23 | -10.96 | H |
| 17475 | 44.38 | 37.52 | 7.32 | 30.96 | 58.26 | 68.23 | -9.97 | H |
| 23300 | 44.95 | 39.88 | 8.85 | 35.25 | 58.43 | 68.23 | -9.80 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650 | 34.69 | 34.96 | 5.42 | 31.75 | 43.32 | 54 | -10.68 | V |
| 17475 | 28.79 | 36.74 | 7.32 | 30.96 | 41.89 | 54 | -12.11 | V |
| 23300 | 30.08 | 39.14 | 8.85 | 35.25 | 42.82 | 54 | -11.18 | V |
| 11650 | 33.42 | 34.02 | 5.42 | 31.75 | 41.11 | 54 | -12.89 | H |
| 17475 | 28.75 | 36.57 | 7.32 | 30.96 | 41.68 | 54 | -12.32 | H |
| 23300 | 28.33 | 39.88 | 8.85 | 35.25 | 41.81 | 54 | -12.19 | H |

802.11n20

| Test Mode: 5180 | | | | | Test channel: Lowest | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360 | 45.55 | 34.56 | 5.36 | 31.25 | 54.22 | 68.2 | -13.98 | V |
| 15540 | 42.77 | 36.22 | 7.85 | 30.63 | 56.21 | 68.2 | -11.99 | V |
| 20720 | 44.15 | 38.97 | 8.56 | 34.95 | 56.73 | 68.2 | -11.47 | V |
| 10360 | 49.11 | 33.57 | 5.36 | 31.25 | 56.79 | 68.2 | -11.41 | H |
| 15540 | 40.39 | 36.49 | 7.85 | 30.63 | 54.10 | 68.2 | -14.10 | H |
| 20720 | 41.75 | 39.92 | 8.56 | 34.95 | 55.28 | 68.2 | -12.92 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360 | 32.34 | 34.56 | 5.36 | 31.25 | 41.01 | 54 | -12.99 | V |
| 15540 | 29.32 | 36.22 | 7.85 | 30.63 | 42.76 | 54 | -11.24 | V |
| 20720 | 28.31 | 38.97 | 8.56 | 34.95 | 40.89 | 54 | -13.11 | V |
| 10360 | 32.20 | 33.57 | 5.36 | 31.25 | 39.88 | 54 | -14.12 | H |
| 15540 | 26.93 | 36.49 | 7.85 | 30.63 | 40.64 | 54 | -13.36 | H |
| 20720 | 27.91 | 39.92 | 8.56 | 34.95 | 41.44 | 54 | -12.56 | H |

802.11n20

| Test Mode:5200 | | | | | Test channel: Middle | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400 | 48.34 | 34.63 | 5.36 | 31.25 | 57.08 | 68.2 | -11.12 | V |
| 15600 | 44.31 | 36.42 | 7.85 | 30.63 | 57.95 | 68.2 | -10.25 | V |
| 20800 | 45.15 | 38.81 | 8.56 | 34.95 | 57.57 | 68.2 | -10.63 | V |
| 10400 | 47.93 | 33.93 | 5.36 | 31.25 | 55.97 | 68.2 | -12.23 | H |
| 15600 | 43.52 | 36.55 | 7.85 | 30.63 | 57.29 | 68.2 | -10.91 | H |
| 20800 | 43.96 | 39.94 | 8.56 | 34.95 | 57.51 | 68.2 | -10.69 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400 | 32.93 | 34.63 | 5.36 | 31.25 | 41.67 | 54 | -12.33 | V |
| 15600 | 28.49 | 36.42 | 7.85 | 30.63 | 42.13 | 54 | -11.87 | V |
| 20800 | 29.03 | 38.81 | 8.56 | 34.95 | 41.45 | 54 | -12.55 | V |
| 10400 | 33.16 | 33.93 | 5.36 | 31.25 | 41.20 | 54 | -12.80 | H |
| 15600 | 28.32 | 36.55 | 7.85 | 30.63 | 42.09 | 54 | -11.91 | H |
| 20800 | 29.51 | 39.94 | 8.56 | 34.95 | 43.06 | 54 | -10.94 | H |

802.11n20

| Test Mode:5240 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480 | 45.69 | 34.68 | 5.36 | 31.25 | 54.48 | 68.2 | -13.72 | V |
| 17520 | 44.51 | 36.52 | 7.85 | 30.63 | 58.25 | 68.2 | -9.95 | V |
| 20960 | 43.23 | 38.77 | 8.56 | 34.95 | 55.61 | 68.2 | -12.59 | V |
| 10480 | 46.82 | 33.99 | 5.36 | 31.25 | 54.92 | 68.2 | -13.28 | H |
| 17520 | 45.61 | 36.84 | 7.85 | 30.63 | 59.67 | 68.2 | -8.53 | H |
| 20960 | 43.95 | 39.93 | 8.56 | 34.95 | 57.49 | 68.2 | -10.71 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480 | 31.53 | 34.68 | 5.36 | 31.25 | 40.32 | 54 | -13.68 | V |
| 17520 | 27.99 | 36.52 | 7.85 | 30.63 | 41.73 | 54 | -12.27 | V |
| 20960 | 28.21 | 38.77 | 8.56 | 34.95 | 40.59 | 54 | -13.41 | V |
| 10480 | 30.85 | 33.99 | 5.36 | 31.25 | 38.95 | 54 | -15.05 | H |
| 17520 | 27.21 | 36.84 | 7.85 | 30.63 | 41.27 | 54 | -12.73 | H |
| 20960 | 29.68 | 39.93 | 8.56 | 34.95 | 43.22 | 54 | -10.78 | H |

802.11n20

| Test Mode: 5745 | | | | | Test channel: Lowest | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490 | 49.63 | 35.26 | 5.42 | 31.75 | 58.56 | 68.23 | -9.67 | V |
| 17235 | 42.49 | 36.88 | 7.32 | 30.96 | 55.73 | 68.23 | -12.50 | V |
| 22980 | 42.94 | 39.14 | 8.85 | 35.25 | 55.68 | 68.23 | -12.55 | V |
| 11490 | 49.48 | 34.21 | 5.42 | 31.75 | 57.36 | 68.23 | -10.87 | H |
| 17235 | 44.12 | 37.52 | 7.32 | 30.96 | 58.00 | 68.23 | -10.23 | H |
| 22980 | 44.96 | 39.88 | 8.85 | 35.25 | 58.44 | 68.23 | -9.79 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490 | 33.44 | 35.26 | 5.42 | 31.75 | 42.37 | 54 | -11.63 | V |
| 17235 | 29.67 | 36.88 | 7.32 | 30.96 | 42.91 | 54 | -11.09 | V |
| 22980 | 29.81 | 39.14 | 8.85 | 35.25 | 42.55 | 54 | -11.45 | V |
| 11490 | 33.17 | 34.21 | 5.42 | 31.75 | 41.05 | 54 | -12.95 | H |
| 17235 | 28.50 | 37.52 | 7.32 | 30.96 | 42.38 | 54 | -11.62 | H |
| 22980 | 29.36 | 39.88 | 8.85 | 35.25 | 42.84 | 54 | -11.16 | H |

802.11n20

| Test Mode:5785 | | | | | Test channel: Middle | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570 | 45.64 | 35.26 | 5.42 | 31.75 | 54.57 | 68.23 | -13.66 | V |
| 17355 | 43.84 | 36.88 | 7.32 | 30.96 | 57.08 | 68.23 | -11.15 | V |
| 23140 | 44.92 | 39.14 | 8.85 | 35.25 | 57.66 | 68.23 | -10.57 | V |
| 11570 | 48.17 | 34.21 | 5.42 | 31.75 | 56.05 | 68.23 | -12.18 | H |
| 17355 | 42.94 | 37.52 | 7.32 | 30.96 | 56.82 | 68.23 | -11.41 | H |
| 23140 | 41.93 | 39.88 | 8.85 | 35.25 | 55.41 | 68.23 | -12.82 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570 | 33.57 | 35.26 | 5.42 | 31.75 | 42.50 | 54 | -11.50 | V |
| 17355 | 30.15 | 36.88 | 7.32 | 30.96 | 43.39 | 54 | -10.61 | V |
| 23140 | 29.41 | 39.14 | 8.85 | 35.25 | 42.15 | 54 | -11.85 | V |
| 11570 | 33.88 | 34.21 | 5.42 | 31.75 | 41.76 | 54 | -12.24 | H |
| 17355 | 30.02 | 37.52 | 7.32 | 30.96 | 43.90 | 54 | -10.10 | H |
| 23140 | 29.26 | 39.88 | 8.85 | 35.25 | 42.74 | 54 | -11.26 | H |

802.11n20

| Test Mode:5825 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650 | 47.74 | 35.26 | 5.42 | 31.75 | 56.67 | 68.23 | -11.56 | V |
| 17475 | 44.71 | 36.88 | 7.32 | 30.96 | 57.95 | 68.23 | -10.28 | V |
| 23300 | 45.33 | 39.14 | 8.85 | 35.25 | 58.07 | 68.23 | -10.16 | V |
| 11650 | 49.05 | 34.21 | 5.42 | 31.75 | 56.93 | 68.23 | -11.30 | H |
| 17475 | 44.36 | 37.52 | 7.32 | 30.96 | 58.24 | 68.23 | -9.99 | H |
| 23300 | 45.62 | 39.88 | 8.85 | 35.25 | 59.10 | 68.23 | -9.13 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650 | 35.48 | 35.26 | 5.42 | 31.75 | 44.41 | 54 | -9.59 | V |
| 17475 | 28.85 | 36.88 | 7.32 | 30.96 | 42.09 | 54 | -11.91 | V |
| 23300 | 27.93 | 39.14 | 8.85 | 35.25 | 40.67 | 54 | -13.33 | V |
| 11650 | 33.28 | 34.21 | 5.42 | 31.75 | 41.16 | 54 | -12.84 | H |
| 17475 | 28.70 | 37.52 | 7.32 | 30.96 | 42.58 | 54 | -11.42 | H |
| 23300 | 29.14 | 39.88 | 8.85 | 35.25 | 42.62 | 54 | -11.38 | H |

802.11ac20

| Test Mode: 5180 | | | | | Test channel: Lowest | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360 | 47.43 | 35.22 | 5.36 | 31.25 | 56.76 | 68.2 | -11.44 | V |
| 15540 | 42.39 | 35.96 | 7.85 | 30.63 | 55.57 | 68.2 | -12.63 | V |
| 20720 | 43.43 | 39.12 | 8.56 | 34.95 | 56.16 | 68.2 | -12.04 | V |
| 10360 | 48.49 | 34.12 | 5.36 | 31.25 | 56.72 | 68.2 | -11.48 | H |
| 15540 | 42.35 | 36.52 | 7.85 | 30.63 | 56.09 | 68.2 | -12.11 | H |
| 20720 | 42.90 | 40.01 | 8.56 | 34.95 | 56.52 | 68.2 | -11.68 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10360 | 33.26 | 35.22 | 5.36 | 31.25 | 42.59 | 54 | -11.41 | V |
| 15540 | 30.40 | 35.96 | 7.85 | 30.63 | 43.58 | 54 | -10.42 | V |
| 20720 | 27.80 | 39.12 | 8.56 | 34.95 | 40.53 | 54 | -13.47 | V |
| 10360 | 32.81 | 34.12 | 5.36 | 31.25 | 41.04 | 54 | -12.96 | H |
| 15540 | 24.96 | 36.52 | 7.85 | 30.63 | 38.70 | 54 | -15.30 | H |
| 20720 | 26.98 | 40.01 | 8.56 | 34.95 | 40.60 | 54 | -13.40 | H |

802.11ac20

| Test Mode:5200 | | | | | Test channel: Middle | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400 | 47.77 | 35.63 | 5.36 | 31.25 | 57.51 | 68.2 | -10.69 | V |
| 15600 | 43.16 | 35.91 | 7.85 | 30.63 | 56.29 | 68.2 | -11.91 | V |
| 20800 | 44.26 | 39.67 | 8.56 | 34.95 | 57.54 | 68.2 | -10.66 | V |
| 10400 | 46.71 | 34.25 | 5.36 | 31.25 | 55.07 | 68.2 | -13.13 | H |
| 15600 | 42.27 | 37.02 | 7.85 | 30.63 | 56.51 | 68.2 | -11.69 | H |
| 20800 | 43.33 | 38.88 | 8.56 | 34.95 | 55.82 | 68.2 | -12.38 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10400 | 33.60 | 35.63 | 5.36 | 31.25 | 43.34 | 54 | -10.66 | V |
| 15600 | 28.88 | 35.91 | 7.85 | 30.63 | 42.01 | 54 | -11.99 | V |
| 20800 | 29.68 | 39.67 | 8.56 | 34.95 | 42.96 | 54 | -11.04 | V |
| 10400 | 32.96 | 34.25 | 5.36 | 31.25 | 41.32 | 54 | -12.68 | H |
| 15600 | 28.94 | 37.02 | 7.85 | 30.63 | 43.18 | 54 | -10.82 | H |
| 20800 | 30.09 | 38.88 | 8.56 | 34.95 | 42.58 | 54 | -11.42 | H |

802.11ac20

| Test Mode:5240 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480 | 45.70 | 34.68 | 5.36 | 31.25 | 54.49 | 68.2 | -13.71 | V |
| 17520 | 43.14 | 36.52 | 7.85 | 30.63 | 56.88 | 68.2 | -11.32 | V |
| 20960 | 44.00 | 38.77 | 8.56 | 34.95 | 56.38 | 68.2 | -11.82 | V |
| 10480 | 47.06 | 33.99 | 5.36 | 31.25 | 55.16 | 68.2 | -13.04 | H |
| 17520 | 45.17 | 36.84 | 7.85 | 30.63 | 59.23 | 68.2 | -8.97 | H |
| 20960 | 46.12 | 39.93 | 8.56 | 34.95 | 59.66 | 68.2 | -8.54 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10480 | 33.26 | 34.68 | 5.36 | 31.25 | 42.05 | 54 | -11.95 | V |
| 17520 | 28.68 | 36.52 | 7.85 | 30.63 | 42.42 | 54 | -11.58 | V |
| 20960 | 30.28 | 38.77 | 8.56 | 34.95 | 42.66 | 54 | -11.34 | V |
| 10480 | 32.07 | 33.99 | 5.36 | 31.25 | 40.17 | 54 | -13.83 | H |
| 17520 | 26.97 | 36.84 | 7.85 | 30.63 | 41.03 | 54 | -12.97 | H |
| 20960 | 29.46 | 39.93 | 8.56 | 34.95 | 43.00 | 54 | -11.00 | H |

802.11ac20

| Test Mode: 5745 | | | | | Test channel: Lowest | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490 | 47.90 | 35.26 | 5.42 | 31.75 | 56.83 | 68.23 | -11.40 | V |
| 17235 | 42.19 | 36.88 | 7.32 | 30.96 | 55.43 | 68.23 | -12.80 | V |
| 22980 | 43.97 | 39.14 | 8.85 | 35.25 | 56.71 | 68.23 | -11.52 | V |
| 11490 | 49.62 | 34.21 | 5.42 | 31.75 | 57.50 | 68.23 | -10.73 | H |
| 17235 | 43.96 | 37.52 | 7.32 | 30.96 | 57.84 | 68.23 | -10.39 | H |
| 22980 | 44.58 | 39.88 | 8.85 | 35.25 | 58.06 | 68.23 | -10.17 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11490 | 32.01 | 35.26 | 5.42 | 31.75 | 40.94 | 54 | -13.06 | V |
| 17235 | 30.13 | 36.88 | 7.32 | 30.96 | 43.37 | 54 | -10.63 | V |
| 22980 | 29.74 | 39.14 | 8.85 | 35.25 | 42.48 | 54 | -11.52 | V |
| 11490 | 31.78 | 34.21 | 5.42 | 31.75 | 39.66 | 54 | -14.34 | H |
| 17235 | 28.56 | 37.52 | 7.32 | 30.96 | 42.44 | 54 | -11.56 | H |
| 22980 | 29.20 | 39.88 | 8.85 | 35.25 | 42.68 | 54 | -11.32 | H |

802.11ac20

| Test Mode:5785 | | | | | Test channel: Middle | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570 | 48.43 | 35.26 | 5.42 | 31.75 | 57.36 | 68.23 | -10.87 | V |
| 17355 | 44.42 | 36.88 | 7.32 | 30.96 | 57.66 | 68.23 | -10.57 | V |
| 23140 | 45.05 | 39.14 | 8.85 | 35.25 | 57.79 | 68.23 | -10.44 | V |
| 11570 | 48.53 | 34.21 | 5.42 | 31.75 | 56.41 | 68.23 | -11.82 | H |
| 17355 | 42.55 | 37.52 | 7.32 | 30.96 | 56.43 | 68.23 | -11.80 | H |
| 23140 | 43.57 | 39.88 | 8.85 | 35.25 | 57.05 | 68.23 | -11.18 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11570 | 33.34 | 35.26 | 5.42 | 31.75 | 42.27 | 54 | -11.73 | V |
| 17355 | 29.27 | 36.88 | 7.32 | 30.96 | 42.51 | 54 | -11.49 | V |
| 23140 | 28.35 | 39.14 | 8.85 | 35.25 | 41.09 | 54 | -12.91 | V |
| 11570 | 34.70 | 34.21 | 5.42 | 31.75 | 42.58 | 54 | -11.42 | H |
| 17355 | 29.55 | 37.52 | 7.32 | 30.96 | 43.43 | 54 | -10.57 | H |
| 23140 | 29.38 | 39.88 | 8.85 | 35.25 | 42.86 | 54 | -11.14 | H |

802.11ac20

| Test Mode:5825 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650 | 48.69 | 35.26 | 5.42 | 31.75 | 57.62 | 68.23 | -10.61 | V |
| 17475 | 44.31 | 36.88 | 7.32 | 30.96 | 57.55 | 68.23 | -10.68 | V |
| 23300 | 45.34 | 39.14 | 8.85 | 35.25 | 58.08 | 68.23 | -10.15 | V |
| 11650 | 49.11 | 34.21 | 5.42 | 31.75 | 56.99 | 68.23 | -11.24 | H |
| 17475 | 44.49 | 37.52 | 7.32 | 30.96 | 58.37 | 68.23 | -9.86 | H |
| 23300 | 45.17 | 39.88 | 8.85 | 35.25 | 58.65 | 68.23 | -9.58 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 11650 | 34.50 | 35.26 | 5.42 | 31.75 | 43.43 | 54 | -10.57 | V |
| 17475 | 28.27 | 36.88 | 7.32 | 30.96 | 41.51 | 54 | -12.49 | V |
| 23300 | 29.88 | 39.14 | 8.85 | 35.25 | 42.62 | 54 | -11.38 | V |
| 11650 | 33.55 | 34.21 | 5.42 | 31.75 | 41.43 | 54 | -12.57 | H |
| 17475 | 28.58 | 37.52 | 7.32 | 30.96 | 42.46 | 54 | -11.54 | H |
| 23300 | 28.72 | 39.88 | 8.85 | 35.25 | 42.20 | 54 | -11.80 | H |

802.11n40

| Test Mode:5190 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10380 | 47.36 | 35.26 | 5.42 | 31.75 | 56.29 | 68.2 | -11.91 | V |
| 15570 | 44.30 | 36.88 | 7.32 | 30.96 | 57.54 | 68.2 | -10.66 | V |
| 20760 | 45.28 | 39.14 | 8.85 | 35.25 | 58.02 | 68.2 | -10.18 | V |
| 10380 | 49.39 | 34.21 | 5.42 | 31.75 | 57.27 | 68.2 | -10.93 | H |
| 15570 | 44.36 | 37.52 | 7.32 | 30.96 | 58.24 | 68.2 | -9.96 | H |
| 20760 | 45.29 | 39.88 | 8.85 | 35.25 | 58.77 | 68.2 | -9.43 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10380 | 35.38 | 35.26 | 5.42 | 31.75 | 44.31 | 54 | -9.69 | V |
| 15570 | 29.10 | 36.88 | 7.32 | 30.96 | 42.34 | 54 | -11.66 | V |
| 20760 | 27.83 | 39.14 | 8.85 | 35.25 | 40.57 | 54 | -13.43 | V |
| 10380 | 32.88 | 34.21 | 5.42 | 31.75 | 40.76 | 54 | -13.24 | H |
| 15570 | 28.26 | 37.52 | 7.32 | 30.96 | 42.14 | 54 | -11.86 | H |
| 20760 | 28.93 | 39.88 | 8.85 | 35.25 | 42.41 | 54 | -11.59 | H |

802.11n40

| Test Mode:5230 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10460 | 47.57 | 35.26 | 5.42 | 31.75 | 56.50 | 68.2 | -11.70 | V |
| 15690 | 44.71 | 36.88 | 7.32 | 30.96 | 57.95 | 68.2 | -10.25 | V |
| 20920 | 45.03 | 39.14 | 8.85 | 35.25 | 57.77 | 68.2 | -10.43 | V |
| 10460 | 49.06 | 34.21 | 5.42 | 31.75 | 56.94 | 68.2 | -11.26 | H |
| 15690 | 44.67 | 37.52 | 7.32 | 30.96 | 58.55 | 68.2 | -9.65 | H |
| 20920 | 45.11 | 39.88 | 8.85 | 35.25 | 58.59 | 68.2 | -9.61 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10460 | 35.62 | 35.26 | 5.42 | 31.75 | 44.55 | 54 | -9.45 | V |
| 15690 | 29.00 | 36.88 | 7.32 | 30.96 | 42.24 | 54 | -11.76 | V |
| 20920 | 27.94 | 39.14 | 8.85 | 35.25 | 40.68 | 54 | -13.32 | V |
| 10460 | 33.08 | 34.21 | 5.42 | 31.75 | 40.96 | 54 | -13.04 | H |
| 15690 | 28.66 | 37.52 | 7.32 | 30.96 | 42.54 | 54 | -11.46 | H |
| 20920 | 28.86 | 39.88 | 8.85 | 35.25 | 42.34 | 54 | -11.66 | H |

802.11ac40

| Test Mode:5190 | | | | | Test channel:LOW | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10380 | 47.65 | 35.26 | 5.42 | 31.75 | 56.58 | 68.2 | -11.62 | V |
| 15570 | 44.60 | 36.88 | 7.32 | 30.96 | 57.84 | 68.2 | -10.36 | V |
| 20760 | 45.12 | 39.14 | 8.85 | 35.25 | 57.86 | 68.2 | -10.34 | V |
| 10380 | 49.43 | 34.21 | 5.42 | 31.75 | 57.31 | 68.2 | -10.89 | H |
| 15570 | 44.68 | 37.52 | 7.32 | 30.96 | 58.56 | 68.2 | -9.64 | H |
| 20760 | 45.53 | 39.88 | 8.85 | 35.25 | 59.01 | 68.2 | -9.19 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10380 | 35.64 | 35.26 | 5.42 | 31.75 | 44.57 | 54 | -9.43 | V |
| 15570 | 28.94 | 36.88 | 7.32 | 30.96 | 42.18 | 54 | -11.82 | V |
| 20760 | 28.08 | 39.14 | 8.85 | 35.25 | 40.82 | 54 | -13.18 | V |
| 10380 | 33.34 | 34.21 | 5.42 | 31.75 | 41.22 | 54 | -12.78 | H |
| 15570 | 28.77 | 37.52 | 7.32 | 30.96 | 42.65 | 54 | -11.35 | H |
| 20760 | 28.87 | 39.88 | 8.85 | 35.25 | 42.35 | 54 | -11.65 | H |

802.11ac40

| Test Mode:5230 | | | | | Test channel: High | | | |
|---|---|---|---|---|---|---|---|---|
| Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10460 | 47.58 | 35.26 | 5.42 | 31.75 | 56.51 | 68.2 | -11.69 | V |
| 15690 | 44.42 | 36.88 | 7.32 | 30.96 | 57.66 | 68.2 | -10.54 | V |
| 20920 | 45.34 | 39.14 | 8.85 | 35.25 | 58.08 | 68.2 | -10.12 | V |
| 10460 | 49.27 | 34.21 | 5.42 | 31.75 | 57.15 | 68.2 | -11.05 | H |
| 15690 | 44.55 | 37.52 | 7.32 | 30.96 | 58.43 | 68.2 | -9.77 | H |
| 20920 | 45.44 | 39.88 | 8.85 | 35.25 | 58.92 | 68.2 | -9.28 | H |
| Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 10460 | 35.82 | 35.26 | 5.42 | 31.75 | 44.75 | 54 | -9.25 | V |
| 15690 | 29.02 | 36.88 | 7.32 | 30.96 | 42.26 | 54 | -11.74 | V |
| 20920 | 27.58 | 39.14 | 8.85 | 35.25 | 40.32 | 54 | -13.68 | V |
| 10460 | 33.37 | 34.21 | 5.42 | 31.75 | 41.25 | 54 | -12.75 | H |
| 15690 | 28.66 | 37.52 | 7.32 | 30.96 | 42.54 | 54 | -11.46 | H |
| 20920 | 29.09 | 39.88 | 8.85 | 35.25 | 42.57 | 54 | -11.43 | H |

Note:

1. The testing has been conformed to 10*5825MHz=58250MHz.
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
   Emission Level = Reading + Factor
   Margin=Emission Level-Limit
4. X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

**Undesirable emission**

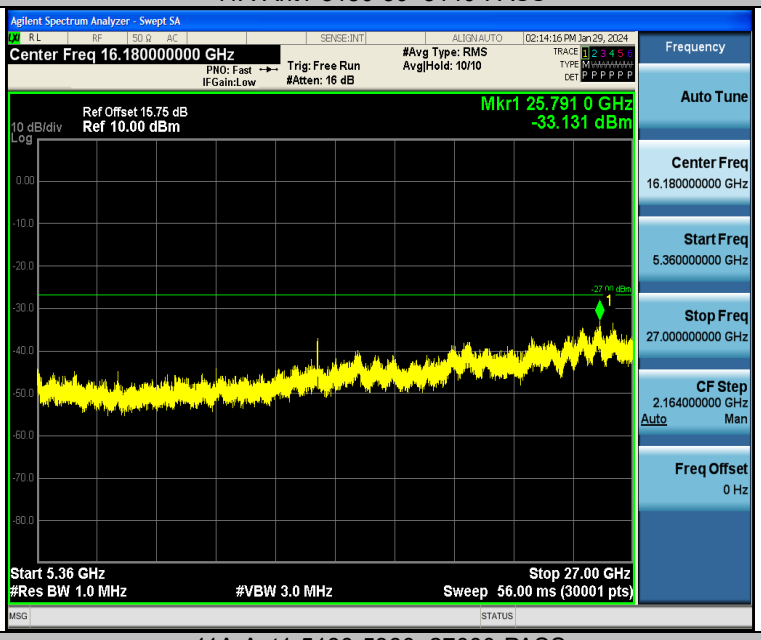
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | Max. Fre [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 30~5140 | 5115.13 | -39.69 | ≤-27 | PASS |
| 11A | Ant1 | 5180 | 5360~27000 | 25791.05 | -33.13 | ≤-27 | PASS |
| 11A | Ant1 | 5200 | 30~5140 | 5137.62 | -38.44 | ≤-27 | PASS |
| 11A | Ant1 | 5200 | 5360~27000 | 25787.44 | -33.32 | ≤-27 | PASS |
| 11A | Ant1 | 5240 | 30~5140 | 3275.36 | -38.37 | ≤-27 | PASS |
| 11A | Ant1 | 5240 | 5360~27000 | 25765.8 | -32.49 | ≤-27 | PASS |
| 11A | Ant1 | 5745 | 30~5650 | 3052.81 | -40.26 | ≤-27 | PASS |
| 11A | Ant1 | 5745 | 5925~27000 | 25101.85 | -30.73 | ≤-27 | PASS |
| 11A | Ant1 | 5785 | 30~5650 | 3259.06 | -39.94 | ≤-27 | PASS |
| 11A | Ant1 | 5785 | 5925~27000 | 25200.9 | -29.72 | ≤-27 | PASS |
| 11A | Ant1 | 5825 | 30~5650 | 3063.86 | -40.03 | ≤-27 | PASS |
| 11A | Ant1 | 5825 | 5925~27000 | 25772.03 | -29.91 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5180 | 30~5140 | 3138.41 | -39.64 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5180 | 5360~27000 | 25143.29 | -33.26 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5200 | 30~5140 | 3181.85 | -39.33 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5200 | 5360~27000 | 26221.68 | -32 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5240 | 30~5140 | 2718.03 | -39.1 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5240 | 5360~27000 | 25773.01 | -32.43 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5745 | 30~5650 | 5635.39 | -40.01 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5745 | 5925~27000 | 25786.08 | -29.82 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5785 | 30~5650 | 3070.98 | -40.05 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5785 | 5925~27000 | 25759.39 | -29.27 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5825 | 30~5650 | 3171.21 | -40.39 | ≤-27 | PASS |
| 11N20SISO | Ant1 | 5825 | 5925~27000 | 25743.23 | -29.57 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5190 | 30~5140 | 3067.38 | -39.84 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5190 | 5360~27000 | 25711.7 | -33.03 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5230 | 30~5140 | 2419.95 | -33.9 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5230 | 5360~27000 | 25775.18 | -32.61 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5755 | 30~5650 | 2621.19 | -40.13 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5755 | 5925~40000 | 25140.48 | -29.85 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5795 | 30~5650 | 3197.24 | -40.05 | ≤-27 | PASS |
| 11N40SISO | Ant1 | 5795 | 5925~27000 | 25711.62 | -28.71 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5180 | 30~5140 | 5108.66 | -38.78 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5180 | 5360~27000 | 25657.6 | -32.79 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5200 | 30~5140 | 3207.57 | -39.39 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5200 | 5360~27000 | 25703.76 | -33.73 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5240 | 30~5140 | 3183.72 | -38.17 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5240 | 5360~27000 | 25665.53 | -32.29 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5745 | 30~5650 | 2703.81 | -40.37 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5745 | 5925~27000 | 25709.51 | -29.56 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5785 | 30~5650 | 3170.27 | -40.14 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5785 | 5925~27000 | 25646.28 | -29.99 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5825 | 30~5650 | 3045.69 | -39.8 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | 5825 | 5925~27000 | 25693.35 | -30.19 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | 5190 | 30~5140 | 5131.99 | -39.66 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | 5190 | 5360~27000 | 25737.67 | -32.65 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | 5230 | 30~5140 | 2689.93 | -39.11 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | 5230 | 5360~27000 | 25782.39 | -32.84 | ≤-27 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11AC40SISO | Ant1 | 5755 | 30~5650 | 2704 | -40.03 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | 5755 | 5925~27000 | 25711.62 | -29.47 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | 5795 | 30~5650 | 3296.16 | -39.2 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | 5795 | 5925~27000 | 25704.59 | -29.71 | ≤-27 | PASS |
| 11AC80SISO | Ant1 | 5210 | 30~5140 | 3045.92 | -38.86 | ≤-27 | PASS |
| 11AC80SISO | Ant1 | 5210 | 5360~27000 | 25721.8 | -32.95 | ≤-27 | PASS |
| 11AC80SISO | Ant1 | 5775 | 30~5650 | 2544.95 | -40.16 | ≤-27 | PASS |
| 11AC80SISO | Ant1 | 5775 | 5925~27000 | 25088.5 | -30.33 | ≤-27 | PASS |

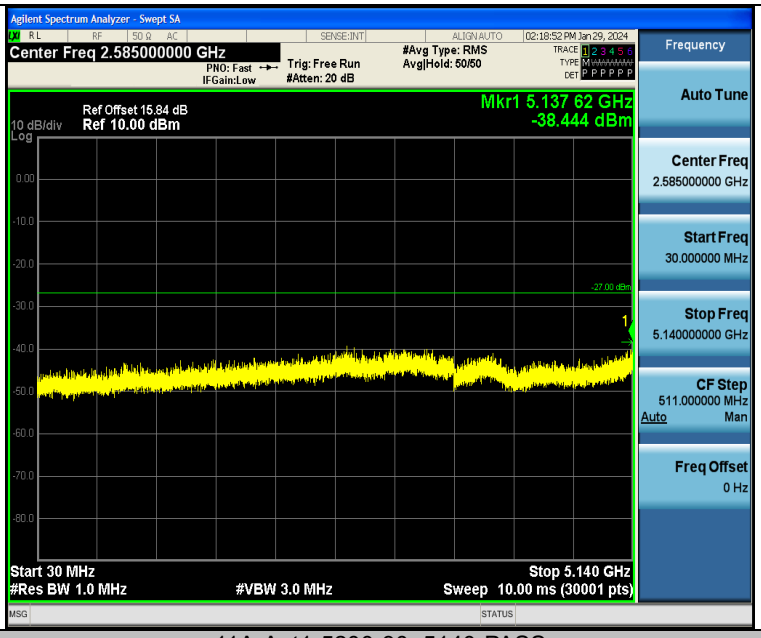
Note: 27~40GHz at least have 20dB margin. No recording in the test report.

**Test Graphs:**

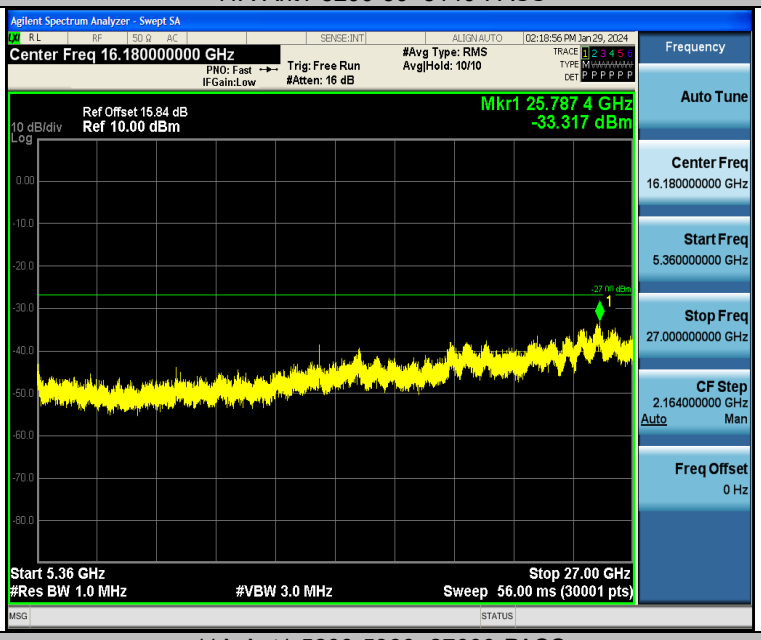
11A-Ant1-5180-30~5140-PASS




11A-Ant1-5180-5360~27000-PASS

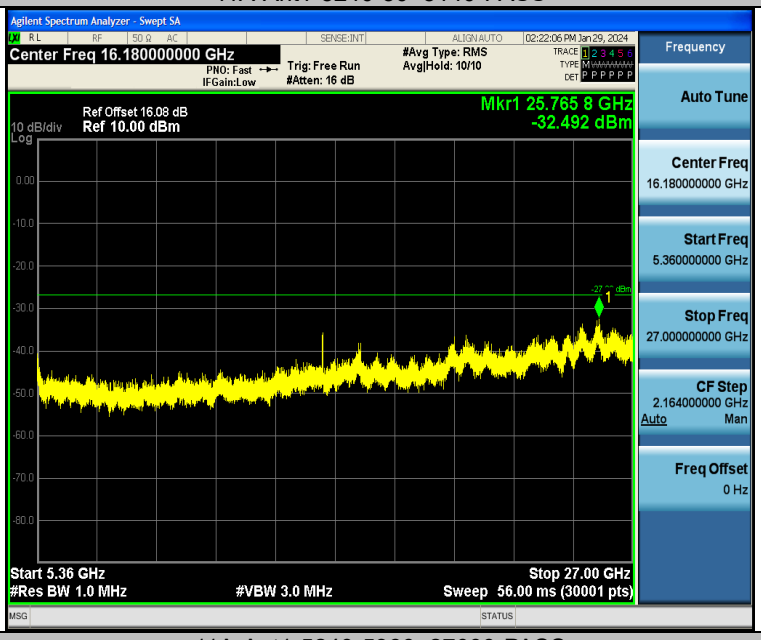



11A-Ant1-5200-30~5140-PASS

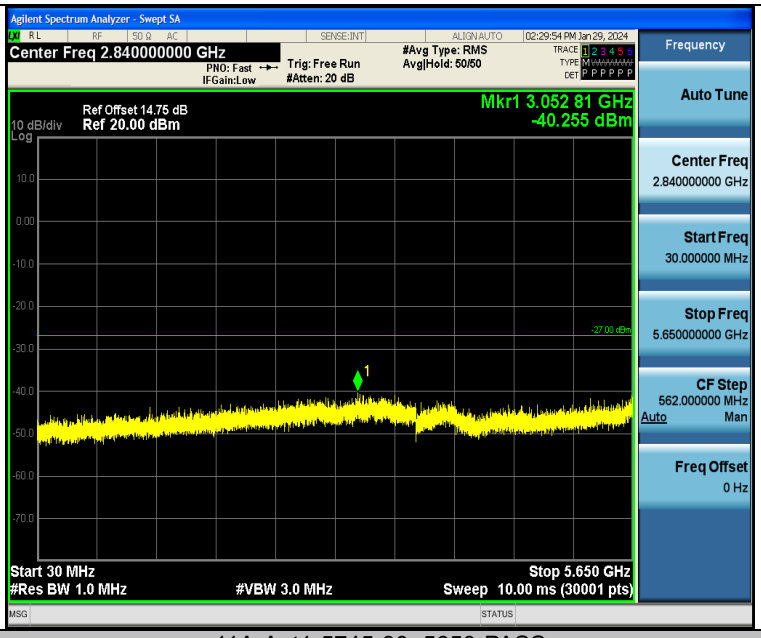



11A-Ant1-5200-5360~27000-PASS

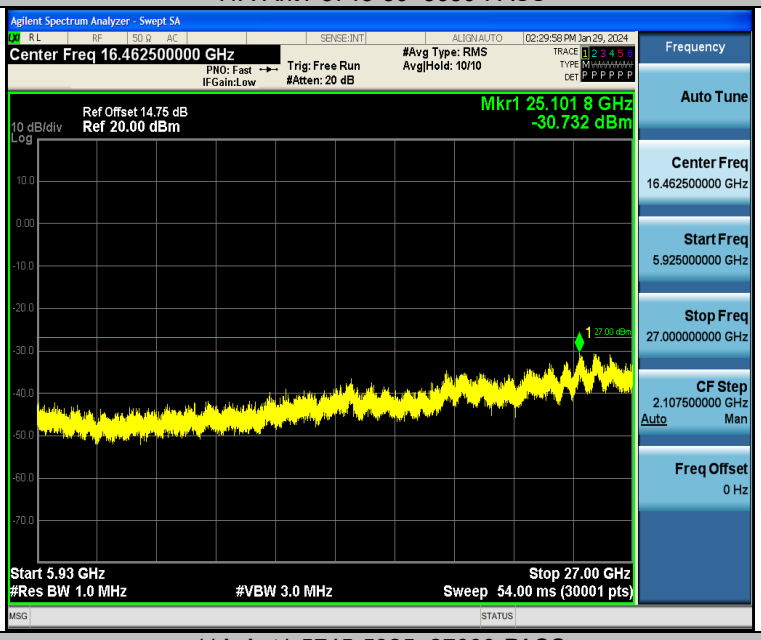
11A-Ant1-5240-30~5140-PASS



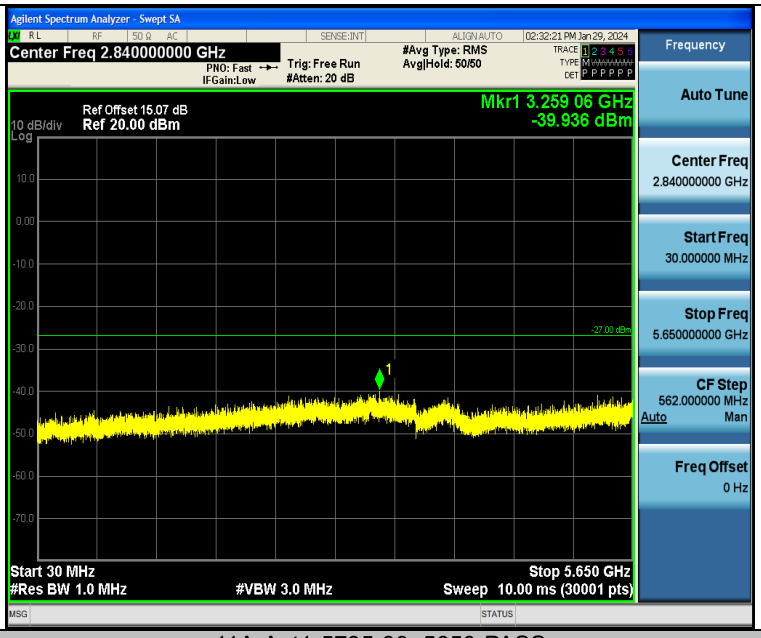

11A-Ant1-5240-5360~27000-PASS



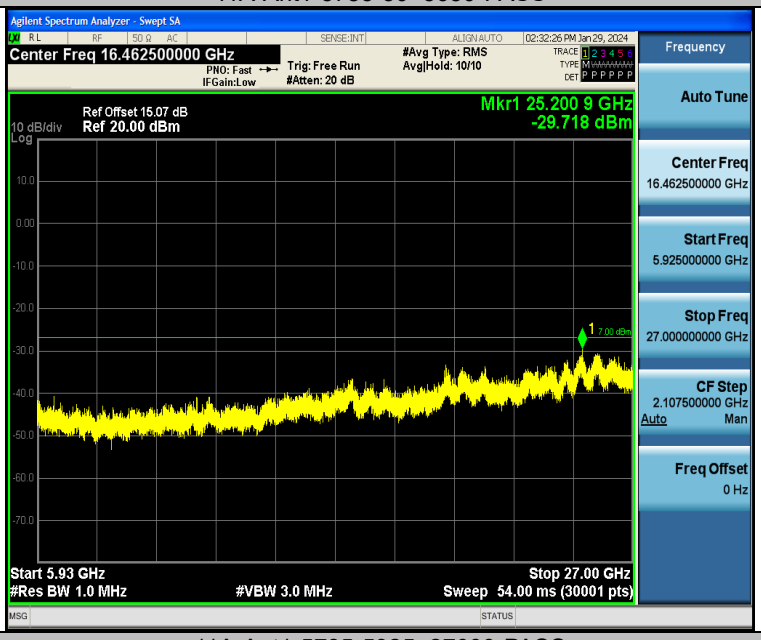

11A-Ant1-5745-30~5650-PASS



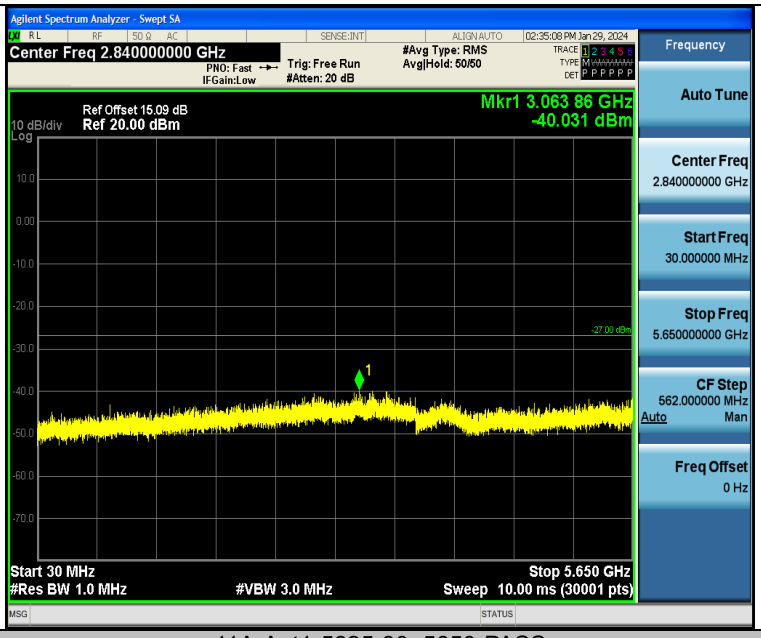

11A-Ant1-5745-5925~27000-PASS



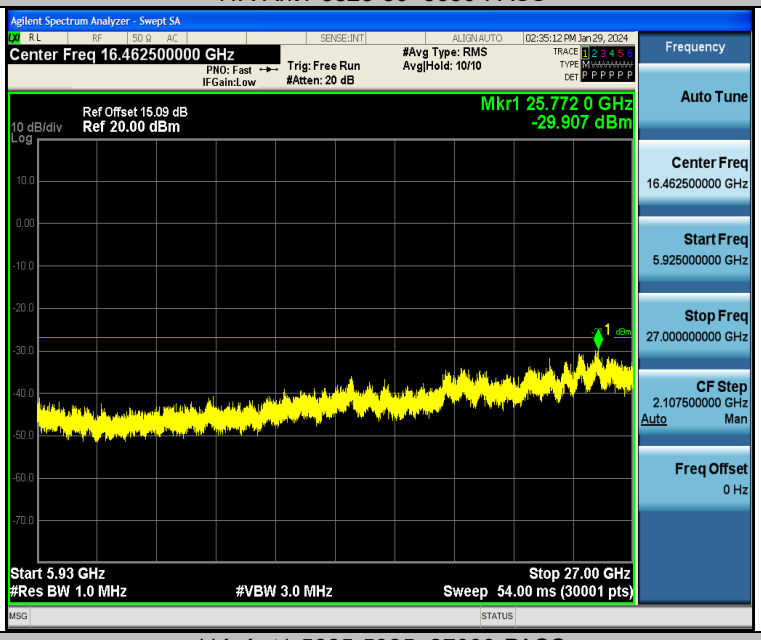

11A-Ant1-5785-30~5650-PASS




11A-Ant1-5785-5925~27000-PASS

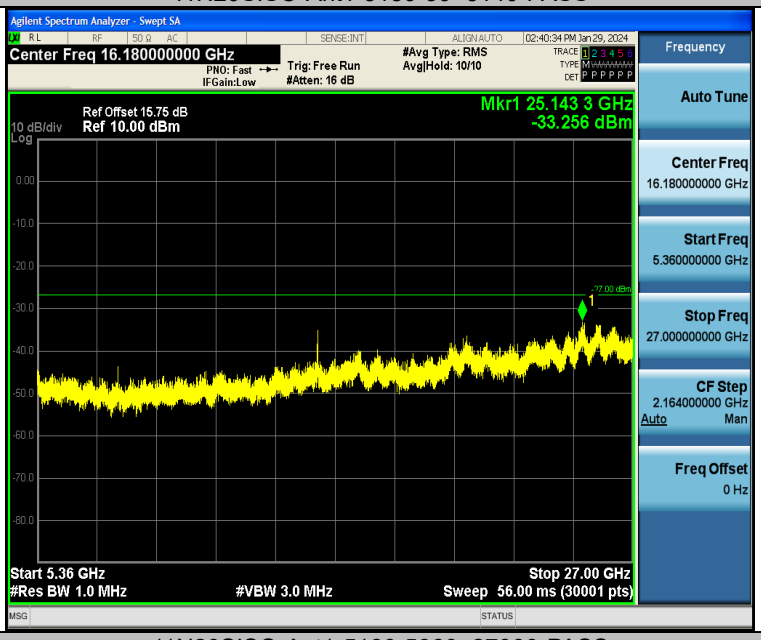



11A-Ant1-5825-30~5650-PASS



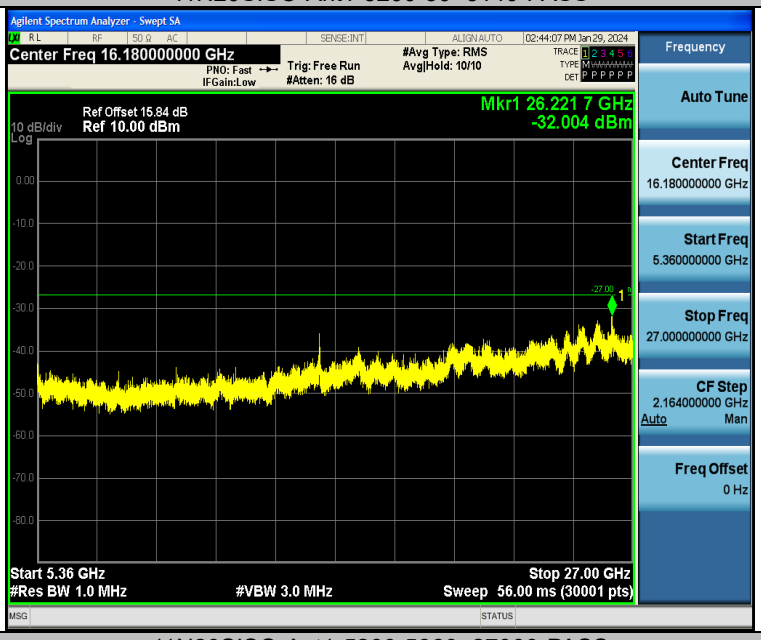

11A-Ant1-5825-5925~27000-PASS

11N20SISO-Ant1-5180-30~5140-PASS

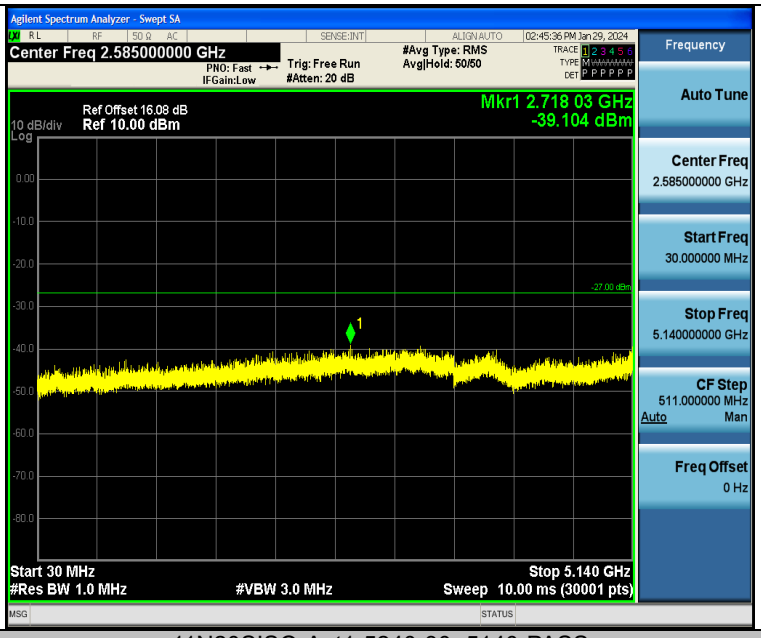



11N20SISO-Ant1-5180-5360~27000-PASS

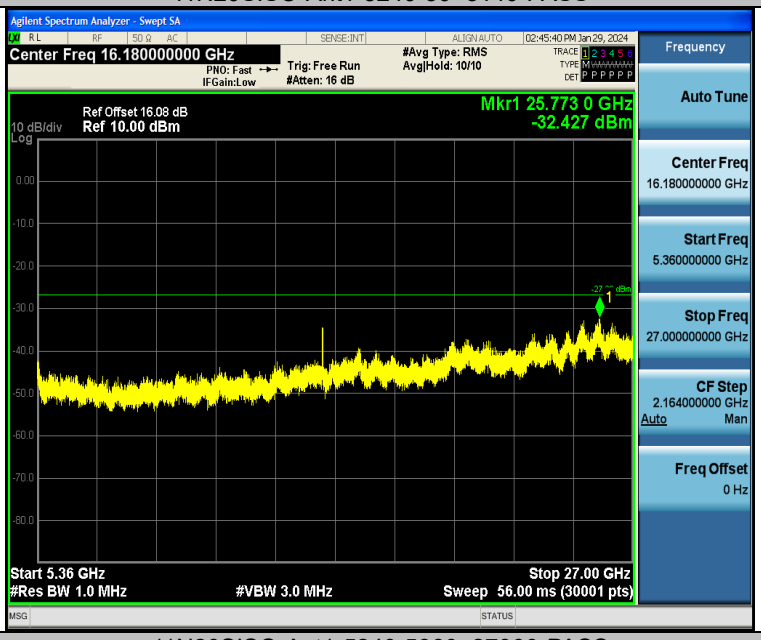
11N20SISO-Ant1-5200-30~5140-PASS



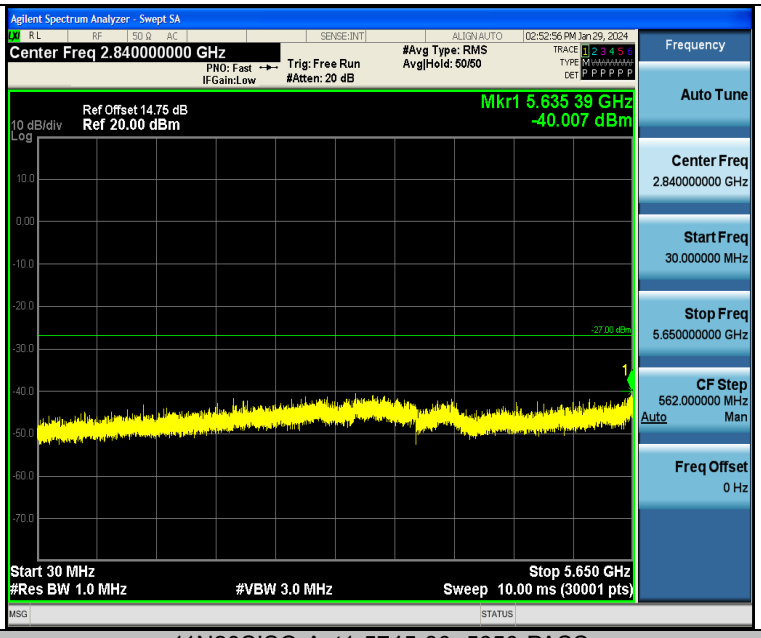

11N20SISO-Ant1-5200-5360~27000-PASS



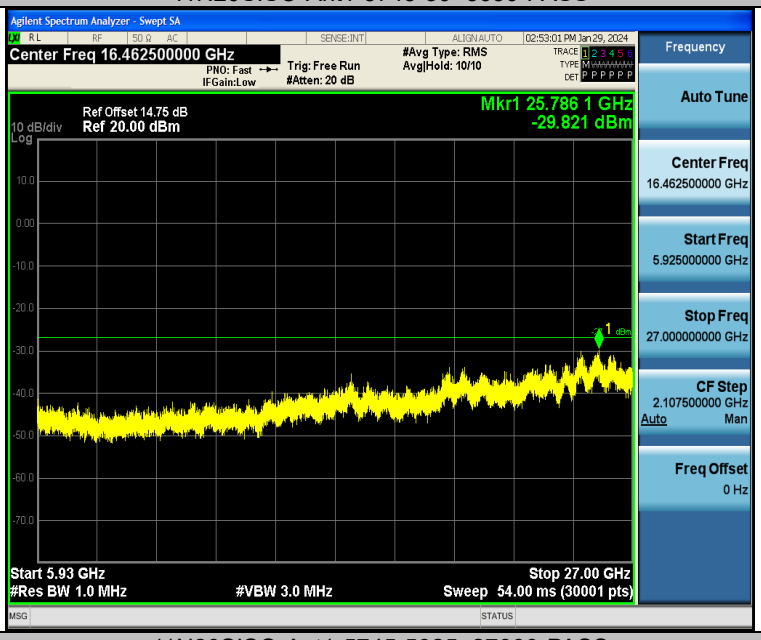

11N20SISO-Ant1-5240-30~5140-PASS



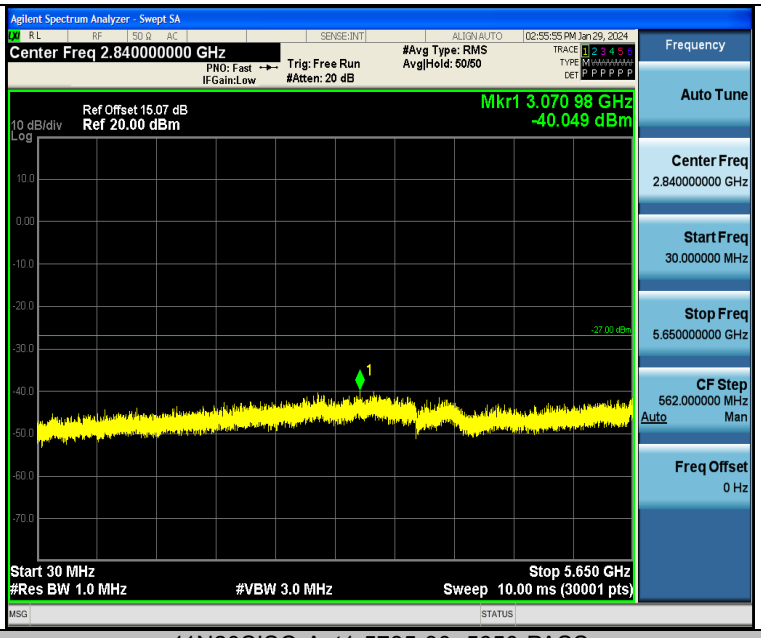

11N20SISO-Ant1-5240-5360~27000-PASS



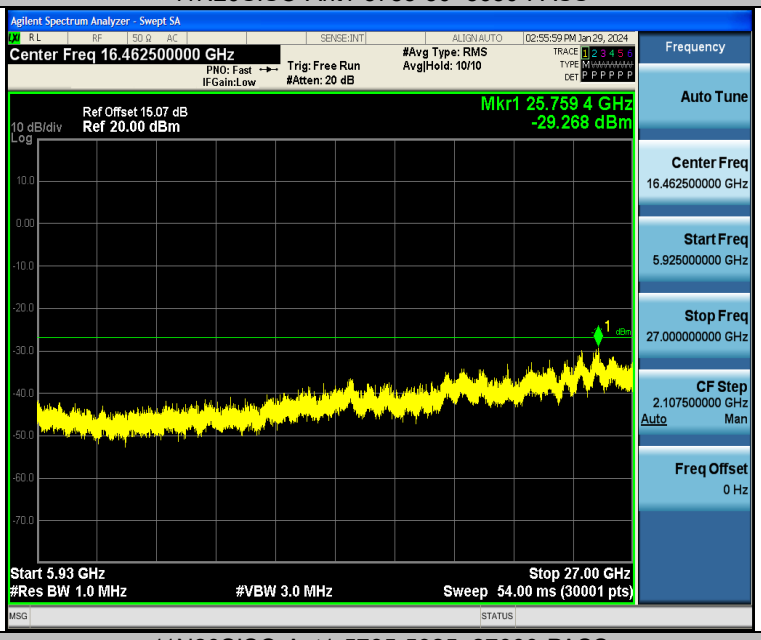

11N20SISO-Ant1-5745-30~5650-PASS




11N20SISO-Ant1-5745-5925~27000-PASS




11N20SISO-Ant1-5785-30~5650-PASS

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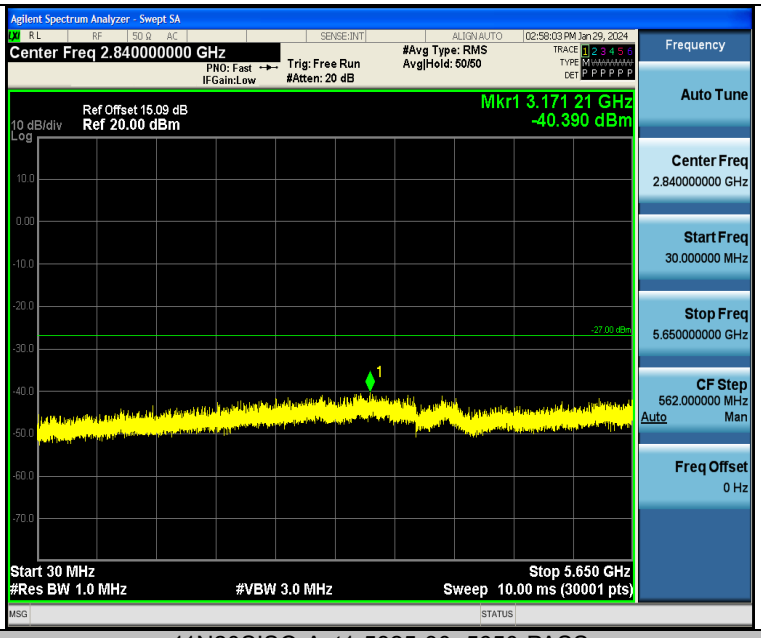
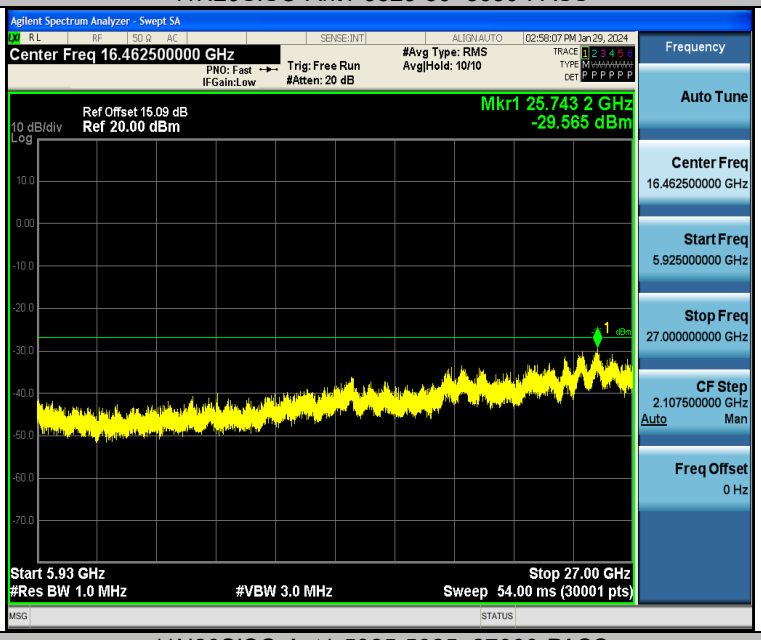
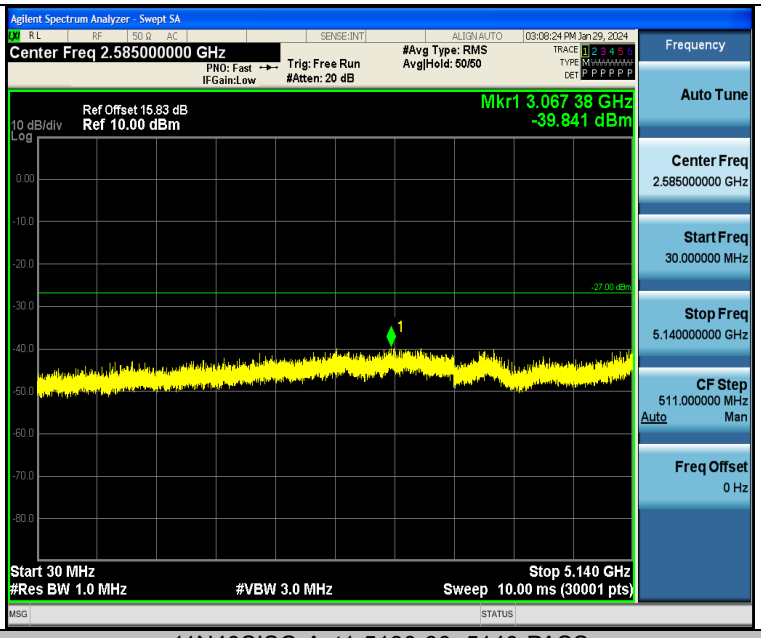


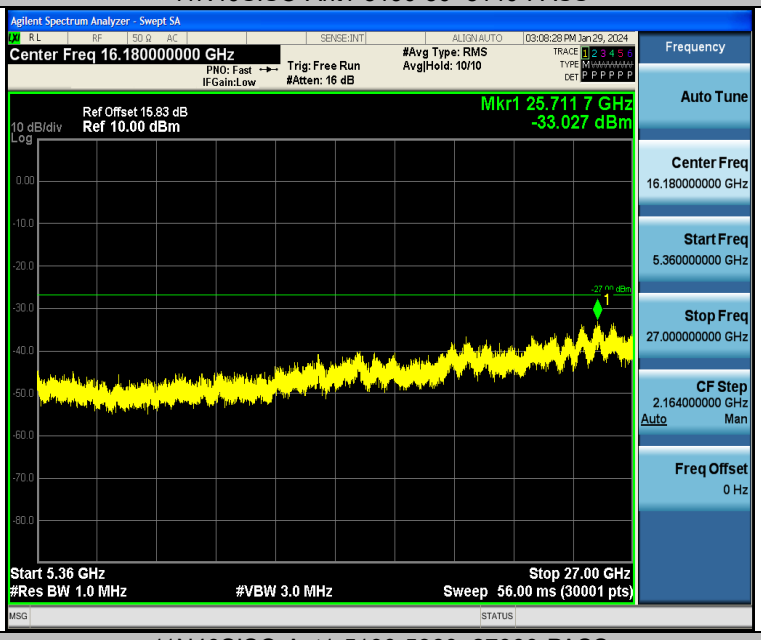

11N20SISO-Ant1-5825-30~5650-PASS



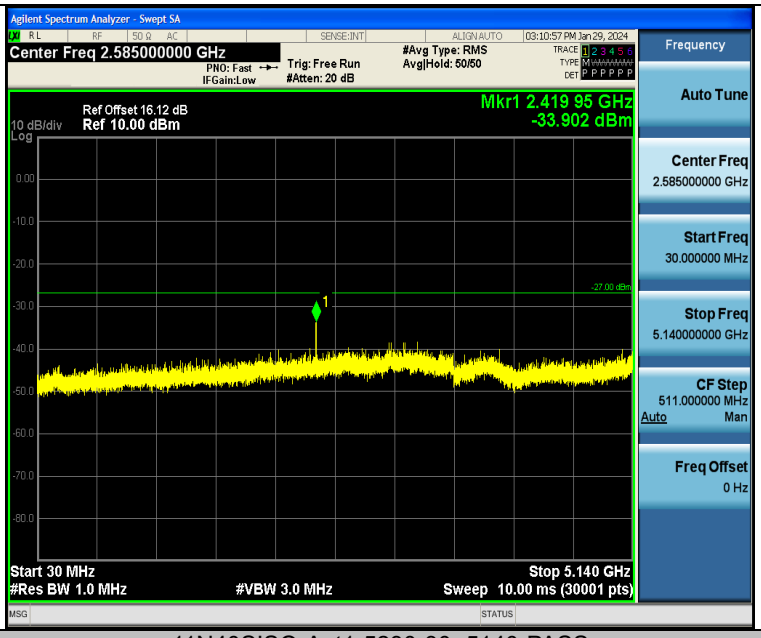

11N20SISO-Ant1-5825-5925~27000-PASS



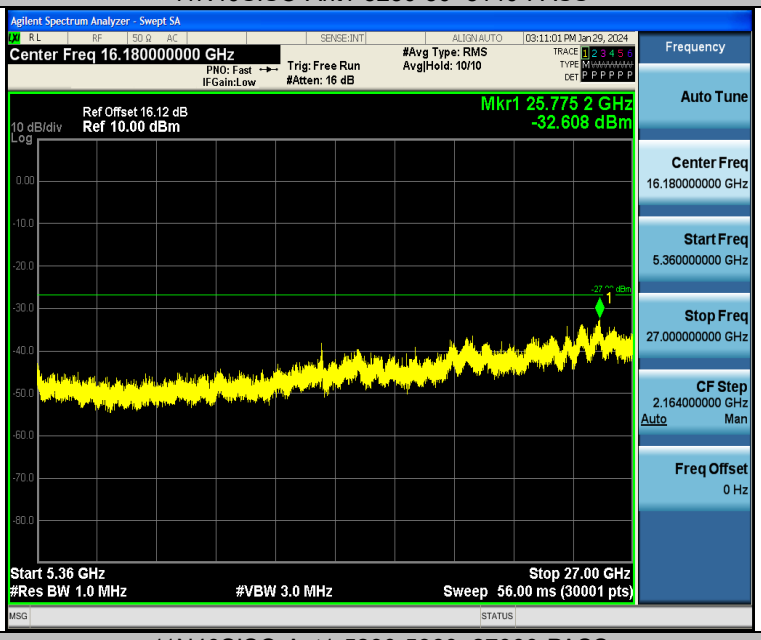

11N40SISO-Ant1-5190-30~5140-PASS



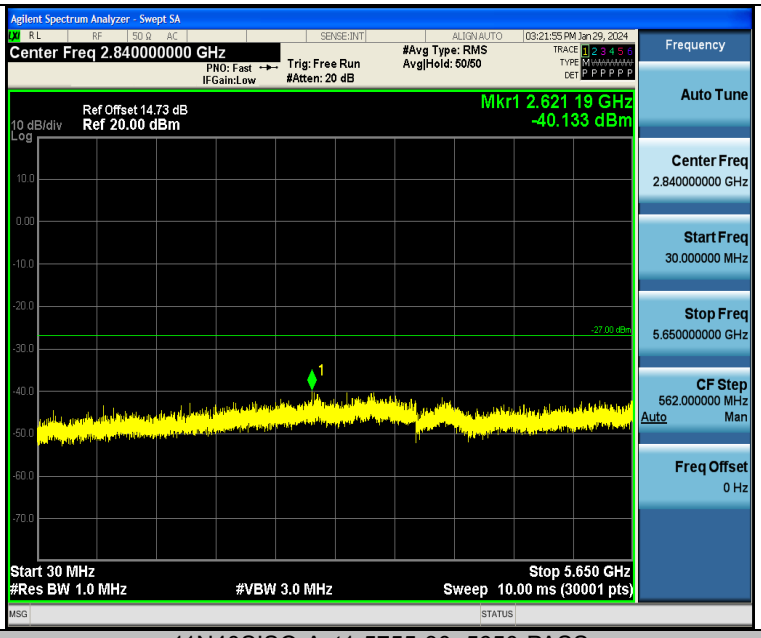

11N40SISO-Ant1-5190-5360~27000-PASS



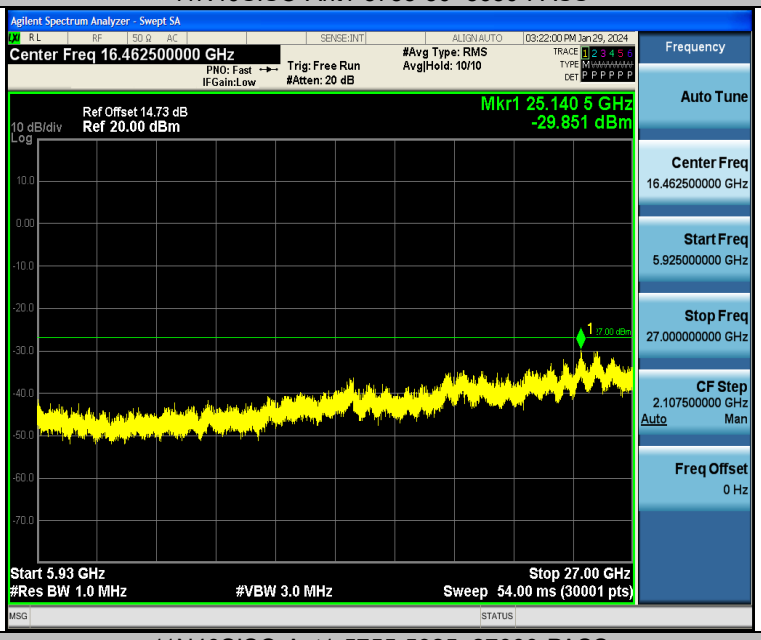

11N40SISO-Ant1-5230-30~5140-PASS



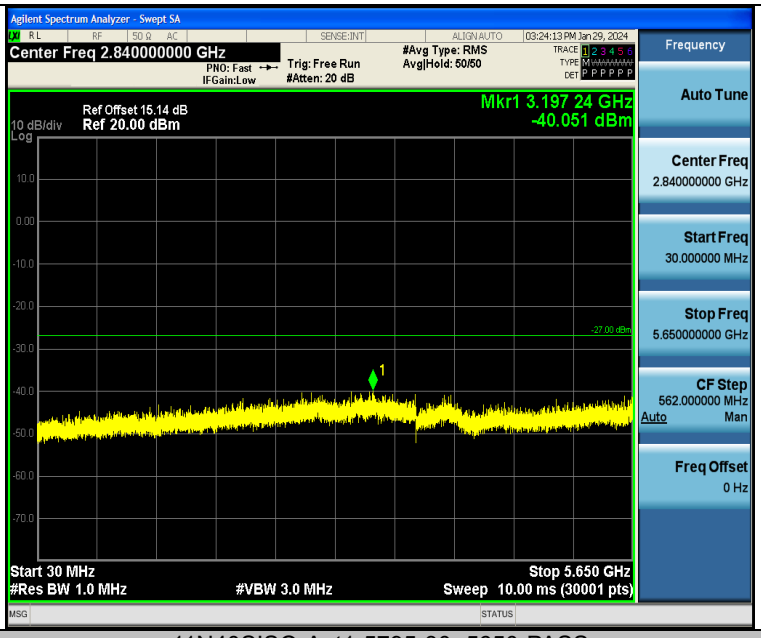

11N40SISO-Ant1-5230-5360~27000-PASS



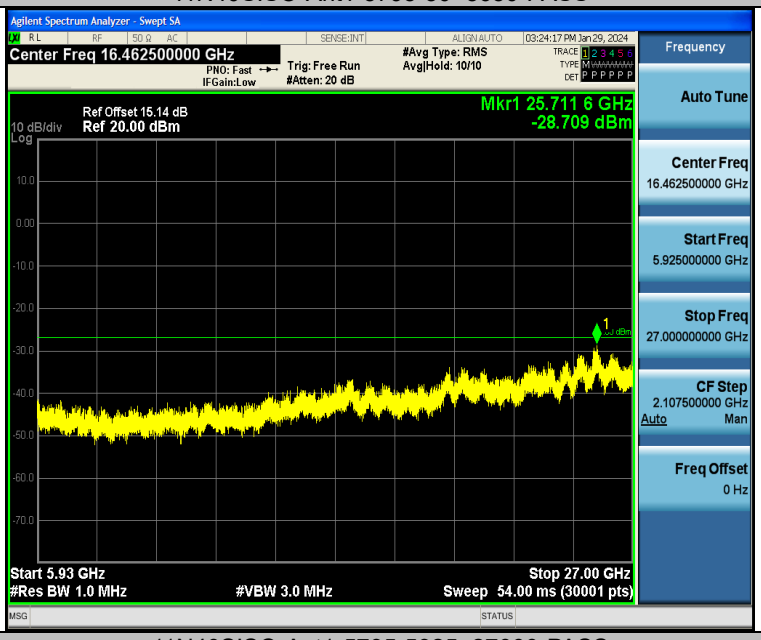

11N40SISO-Ant1-5755-30~5650-PASS




11N40SISO-Ant1-5755-5925~27000-PASS

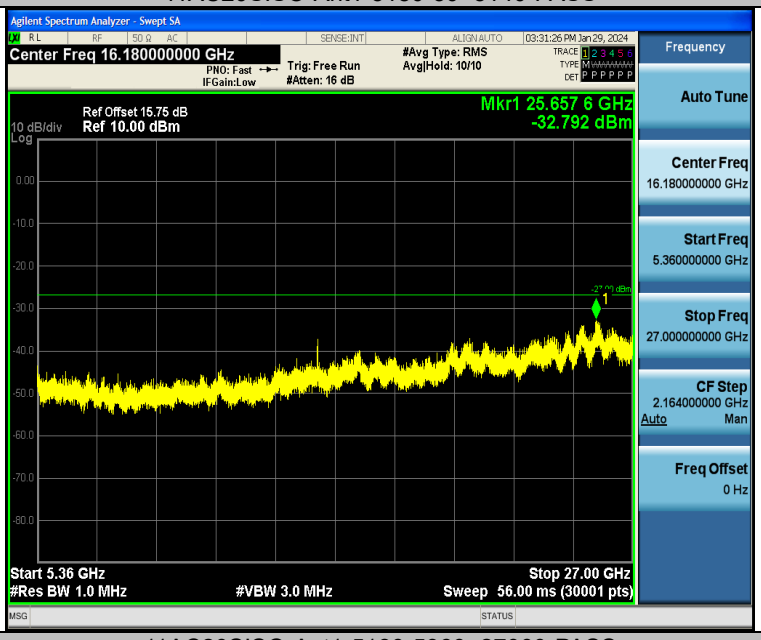



11N40SISO-Ant1-5795-30~5650-PASS



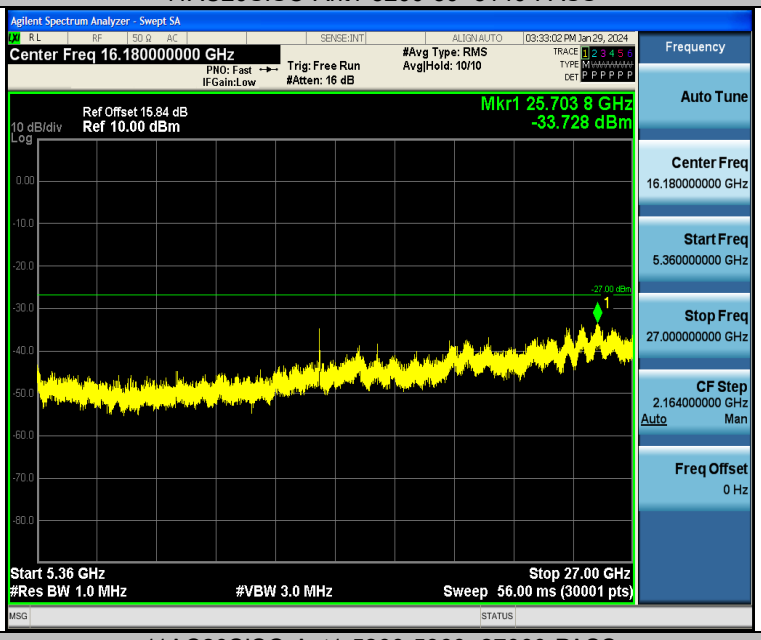

11N40SISO-Ant1-5795-5925~27000-PASS

11AC20SISO-Ant1-5180-30~5140-PASS



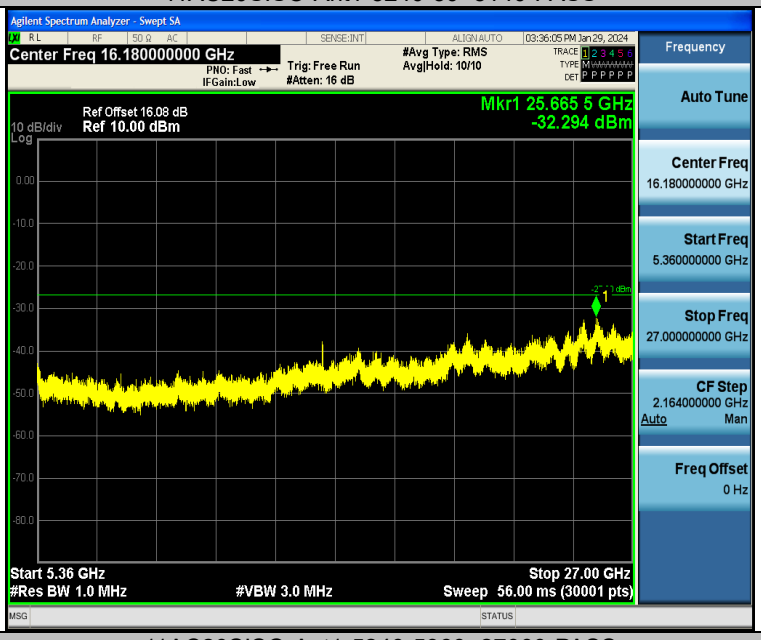

11AC20SISO-Ant1-5180-5360~27000-PASS

11AC20SISO-Ant1-5200-30~5140-PASS




11AC20SISO-Ant1-5200-5360~27000-PASS

11AC20SISO-Ant1-5240-30~5140-PASS

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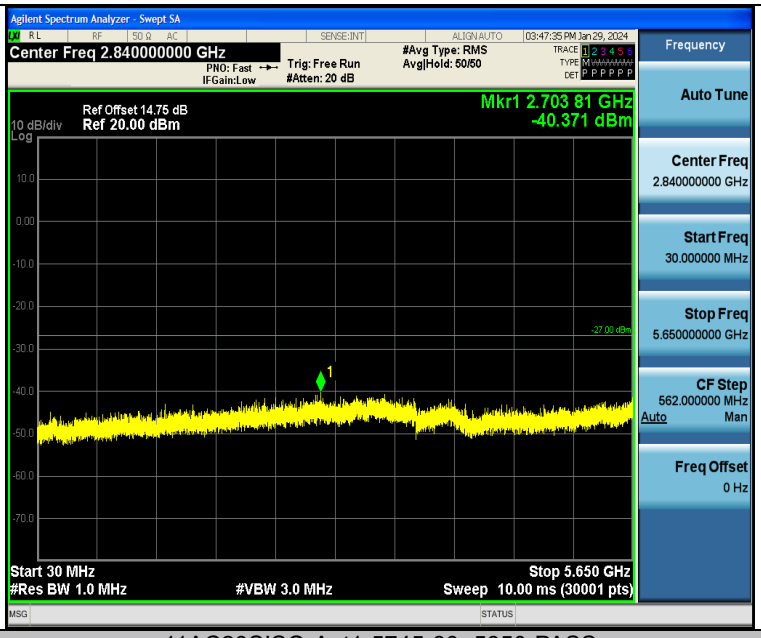
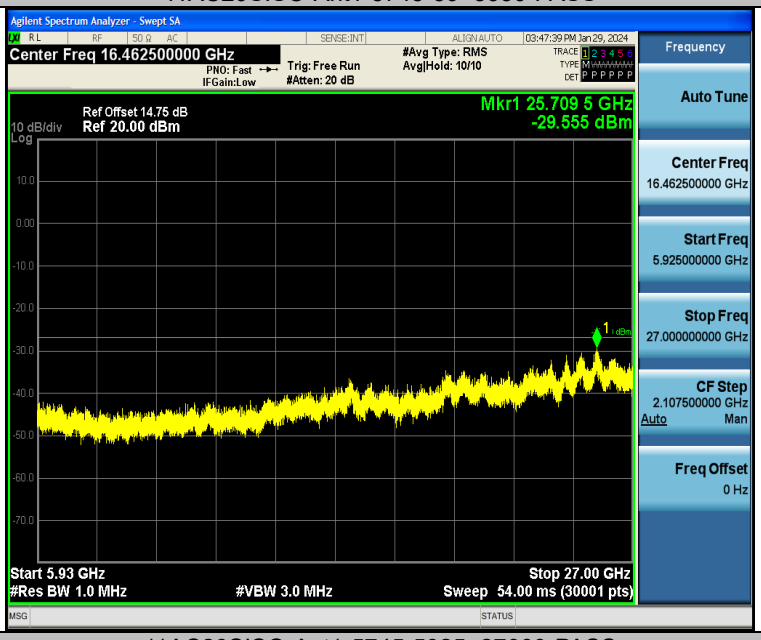
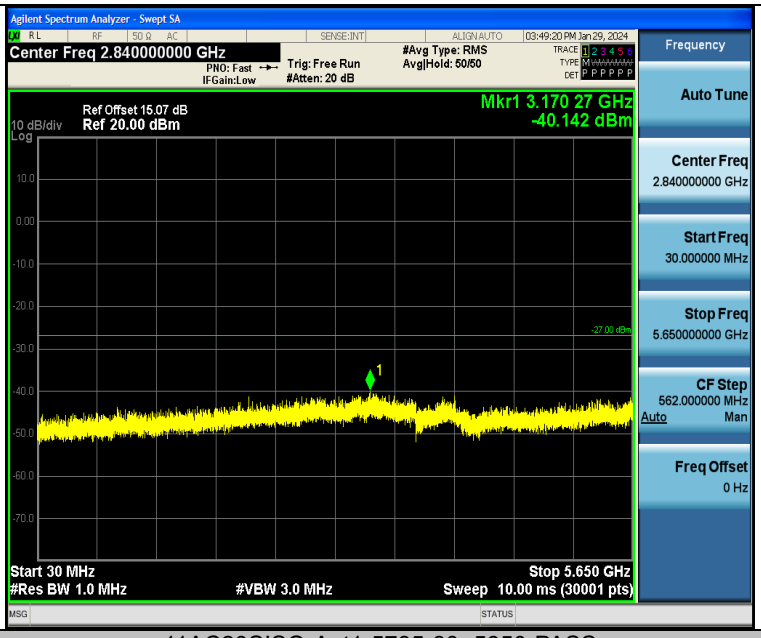


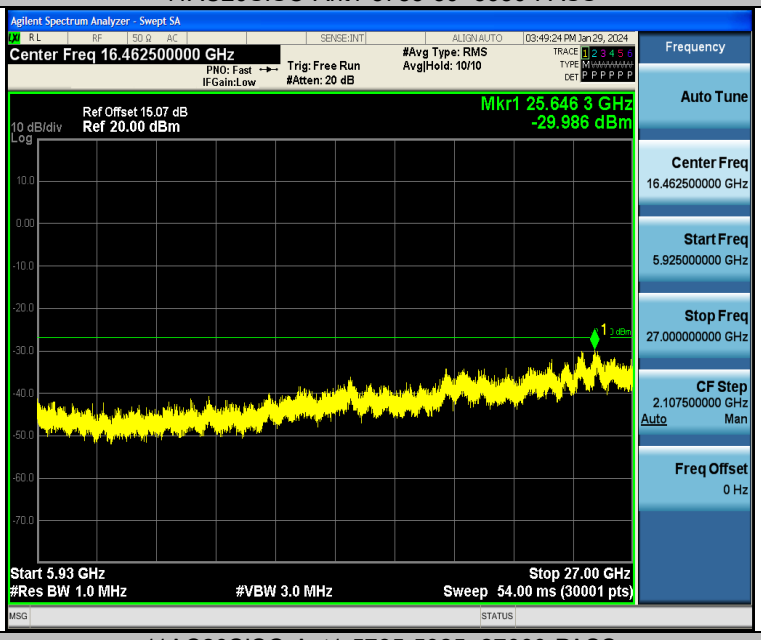

11AC20SISO-Ant1-5745-30~5650-PASS




11AC20SISO-Ant1-5745-5925~27000-PASS




11AC20SISO-Ant1-5785-30~5650-PASS

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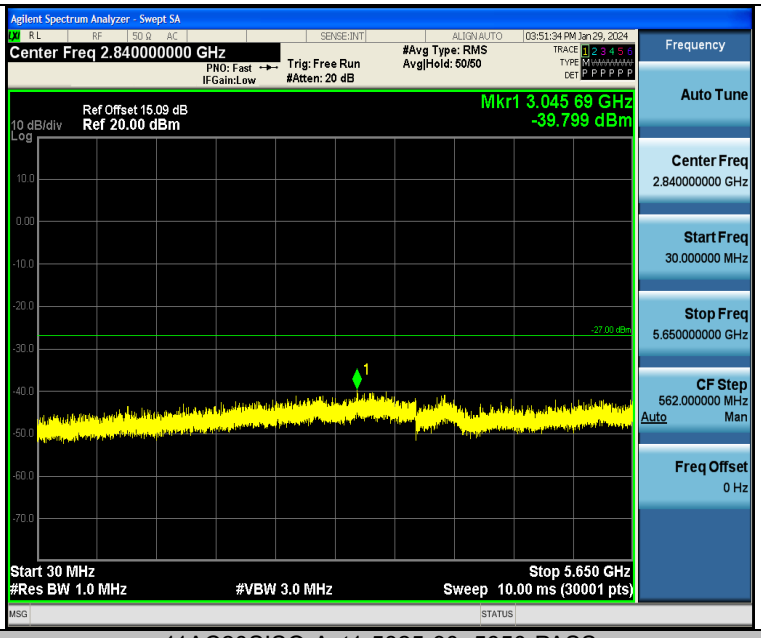


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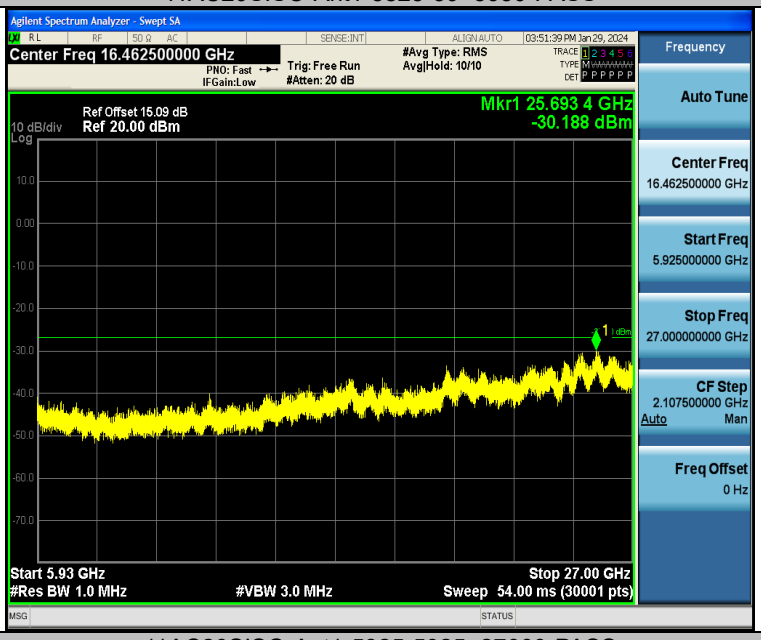
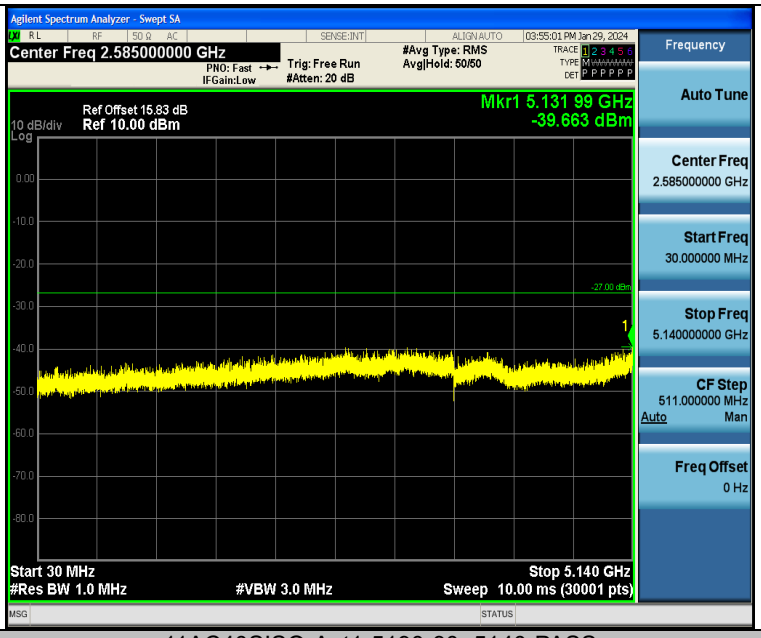
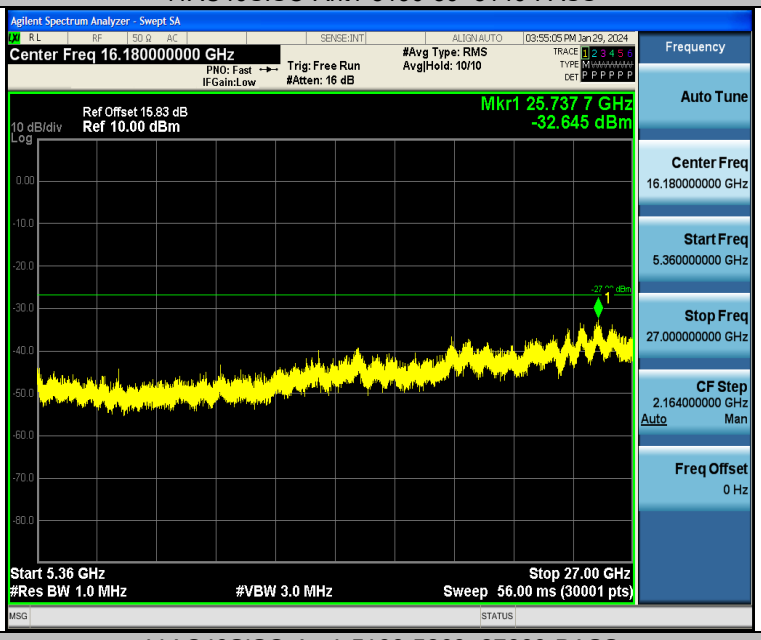



11AC20SISO-Ant1-5825-5925~27000-PASS

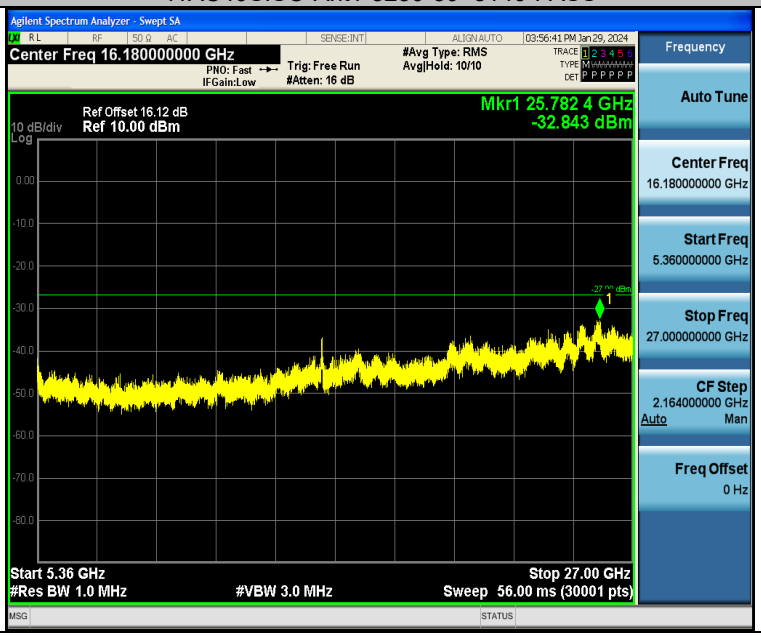



11AC40SISO-Ant1-5190-30~5140-PASS

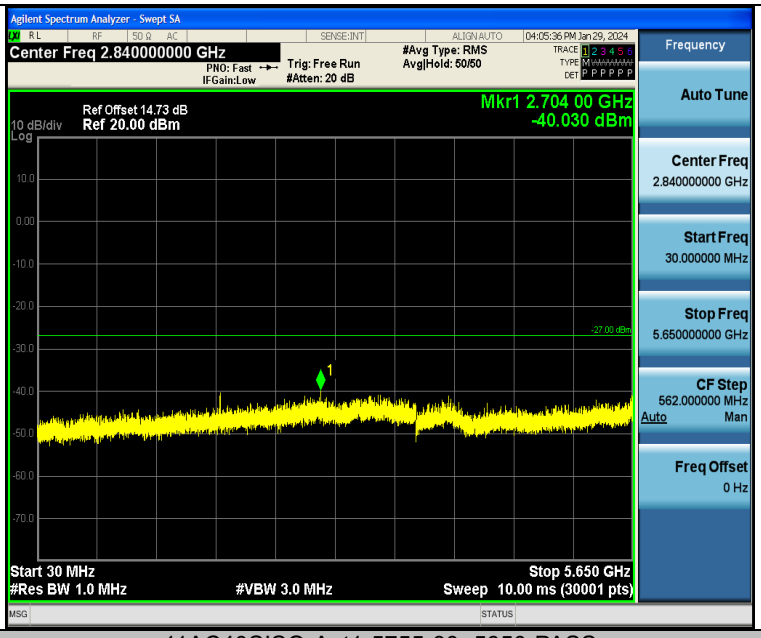



11AC40SISO-Ant1-5190-5360~27000-PASS

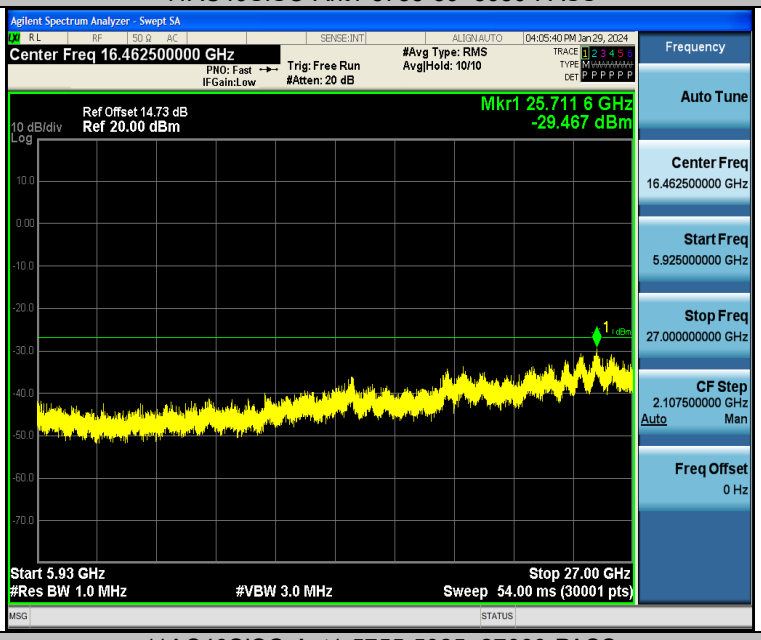
11AC40SISO-Ant1-5230-30~5140-PASS




11AC40SISO-Ant1-5230-5360~40000-PASS




11AC40SISO-Ant1-5755-30~5650-PASS

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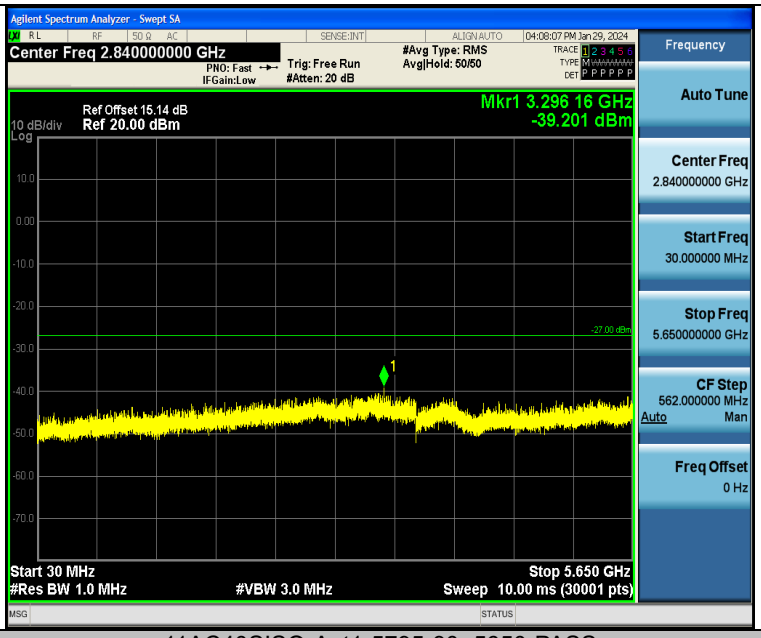


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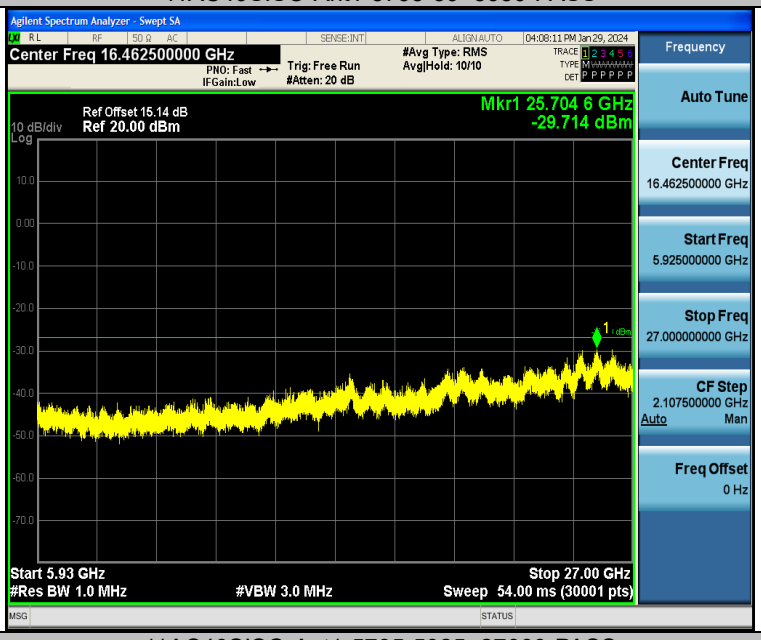
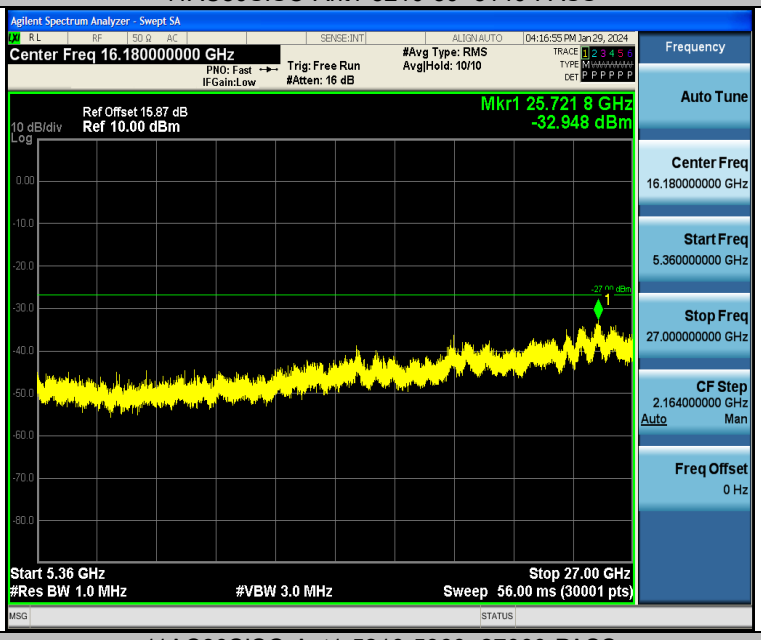
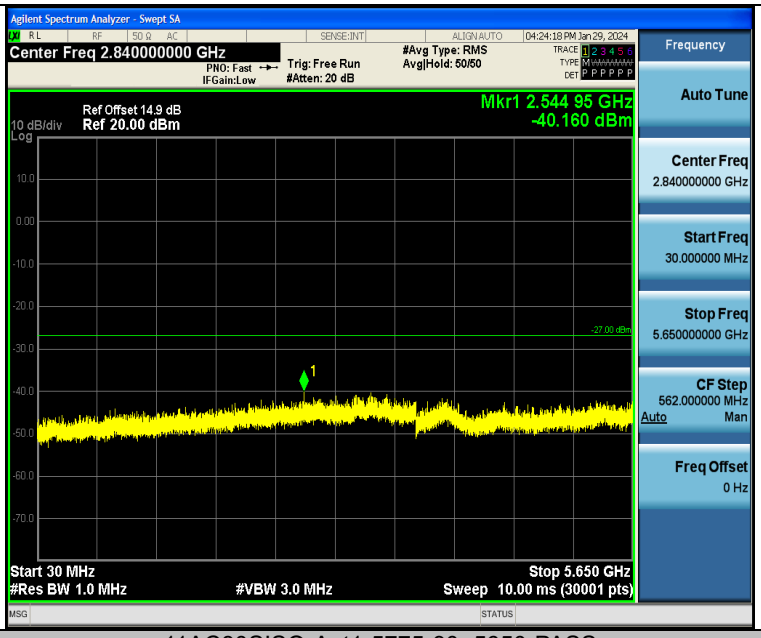



11AC40SISO-Ant1-5795-5925~27000-PASS

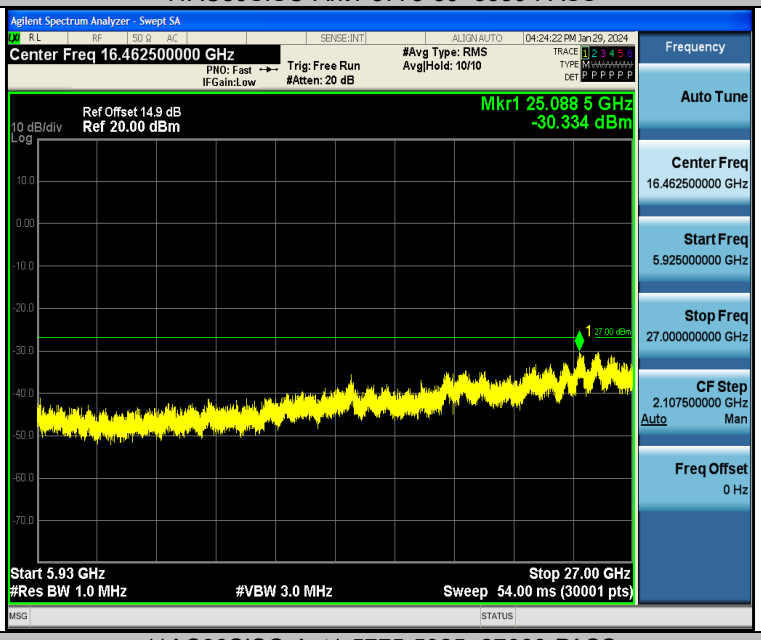
11AC80SISO-Ant1-5210-30~5140-PASS




11AC80SISO-Ant1-5210-5360~27000-PASS




11AC80SISO-Ant1-5775-30~5650-PASS




11AC80SISO-Ant1-5775-5925~27000-PASS

## 6.6 Band edge measurements

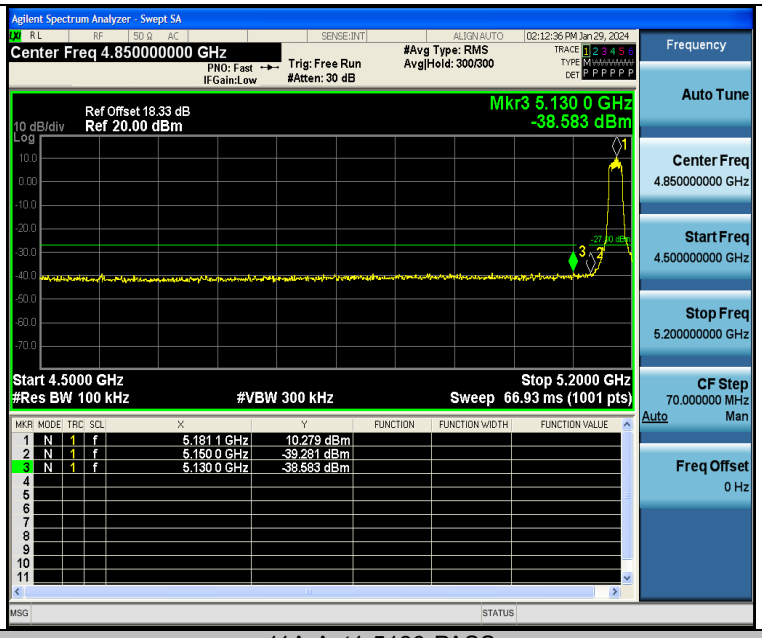
### Test Result:

| TestMode | Antenna | ChName | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|
| 11A | Ant1 | Low | 5180 | -38.58 | ≤-27 | PASS |
| 11N20SISO | Ant1 | Low | 5180 | -37.99 | ≤-27 | PASS |
| 11N40SISO | Ant1 | Low | 5190 | -38.64 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | Low | 5180 | -37.79 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | Low | 5190 | -38.46 | ≤-27 | PASS |
| 11AC80SISO | Ant1 | Low | 5210 | -38.03 | ≤-27 | PASS |
| 11A | Ant1 | High | 5240 | -38.62 | ≤-27 | PASS |
| 11N20SISO | Ant1 | High | 5240 | -37.74 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | High | 5240 | -38.21 | ≤-27 | PASS |
| 11N40SISO | Ant1 | High | 5230 | -38.22 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | High | 5230 | -37.51 | ≤-27 | PASS |

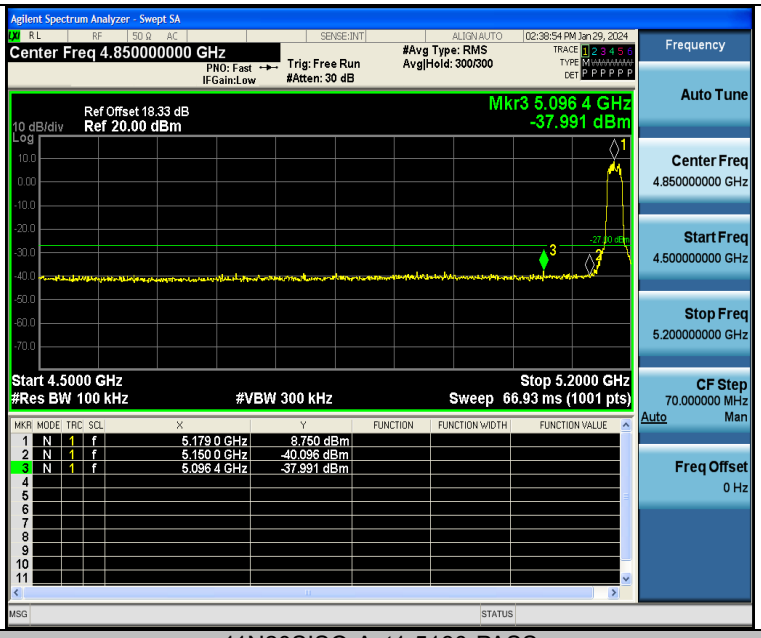
| TestMode | Antenna | ChName | Frequency[MHz] | FreqRange [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | Low | 5745 | 5720~5725 | -31.55 | ≤26.83 | PASS |
| 11A | Ant1 | Low | 5745 | 5700~5720 | -36.19 | ≤15.59 | PASS |
| 11A | Ant1 | Low | 5745 | 5650~5700 | -39.95 | ≤3.34 | PASS |
| 11A | Ant1 | Low | 5745 | 5760~5650 | -42.23 | ≤-27 | PASS |
| 11A | Ant1 | High | 5825 | 5850~5855 | -35.65 | ≤15.79 | PASS |
| 11A | Ant1 | High | 5825 | 5855~5875 | -37.51 | ≤10.02 | PASS |
| 11A | Ant1 | High | 5825 | 5875~5925 | -38.04 | ≤-16.07 | PASS |
| 11A | Ant1 | High | 5825 | 5925~5935 | -38.74 | ≤-27 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | 5720~5725 | -31.03 | ≤26.30 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | 5700~5720 | -35.72 | ≤15.59 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | 5650~5700 | -39.68 | ≤8.53 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | 5760~5650 | -41.66 | ≤-27 | PASS |
| 11N20SISO | Ant1 | High | 5825 | 5850~5855 | -35.34 | ≤15.79 | PASS |
| 11N20SISO | Ant1 | High | 5825 | 5855~5875 | -37.78 | ≤10.17 | PASS |
| 11N20SISO | Ant1 | High | 5825 | 5875~5925 | -38.45 | ≤-13.67 | PASS |
| 11N20SISO | Ant1 | High | 5825 | 5925~5935 | -38.94 | ≤-27 | PASS |
| 11N40SISO | Ant1 | Low | 5755 | 5720~5725 | -31.03 | ≤21.28 | PASS |
| 11N40SISO | Ant1 | Low | 5755 | 5700~5720 | -32.96 | ≤15.24 | PASS |
| 11N40SISO | Ant1 | Low | 5755 | 5650~5700 | -40.37 | ≤4.76 | PASS |
| 11N40SISO | Ant1 | Low | 5755 | 5780~5650 | -39.96 | ≤-27 | PASS |
| 11N40SISO | Ant1 | High | 5795 | 5850~5855 | -39.15 | ≤16.79 | PASS |
| 11N40SISO | Ant1 | High | 5795 | 5855~5875 | -38.87 | ≤11.01 | PASS |
| 11N40SISO | Ant1 | High | 5795 | 5875~5925 | -38.77 | ≤-8.36 | PASS |
| 11N40SISO | Ant1 | High | 5795 | 5925~5935 | -39 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | 5720~5725 | -34.95 | ≤26.83 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | 5700~5720 | -39.02 | ≤15.59 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | 5650~5700 | -40.31 | ≤-1.34 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | 5760~5650 | -41.44 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | High | 5825 | 5850~5855 | -38.12 | ≤16.10 | PASS |
| 11AC20SISO | Ant1 | High | 5825 | 5855~5875 | -38.68 | ≤14.71 | PASS |
| 11AC20SISO | Ant1 | High | 5825 | 5875~5925 | -38.29 | ≤-22.56 | PASS |
| 11AC20SISO | Ant1 | High | 5825 | 5925~5935 | -38.92 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | Low | 5755 | 5720~5725 | -29.34 | ≤21.28 | PASS |
| 11AC40SISO | Ant1 | Low | 5755 | 5700~5720 | -32.7 | ≤15.24 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11AC40SISO | Ant1 | Low | 5755 | 5650~5700 | -39.08 | ≤4.36 | PASS |
| 11AC40SISO | Ant1 | Low | 5755 | 5780~5650 | -41.72 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | High | 5795 | 5850~5855 | -39.39 | ≤16.41 | PASS |
| 11AC40SISO | Ant1 | High | 5795 | 5855~5875 | -38.42 | ≤11.98 | PASS |
| 11AC40SISO | Ant1 | High | 5795 | 5875~5925 | -38.52 | ≤-23.99 | PASS |
| 11AC40SISO | Ant1 | High | 5795 | 5925~5935 | -39.08 | ≤-27 | PASS |
| 11AC80SISO | Ant1 | Low | 5775 | 5720~5725 | -33.99 | ≤26.95 | PASS |
| 11AC80SISO | Ant1 | Low | 5775 | 5700~5720 | -31.72 | ≤15.26 | PASS |
| 11AC80SISO | Ant1 | Low | 5775 | 5650~5700 | -37.5 | ≤8.64 | PASS |
| 11AC80SISO | Ant1 | Low | 5775 | 5800~5650 | -41.59 | ≤-27 | PASS |
| 11AC80SISO | Ant1 | High | 5775 | 5850~5855 | -39.18 | ≤23.39 | PASS |
| 11AC80SISO | Ant1 | High | 5775 | 5855~5875 | -38.36 | ≤11.06 | PASS |
| 11AC80SISO | Ant1 | High | 5775 | 5875~5925 | -38.81 | ≤2.07 | PASS |
| 11AC80SISO | Ant1 | High | 5775 | 5925~5935 | -39.7 | ≤-27 | PASS |

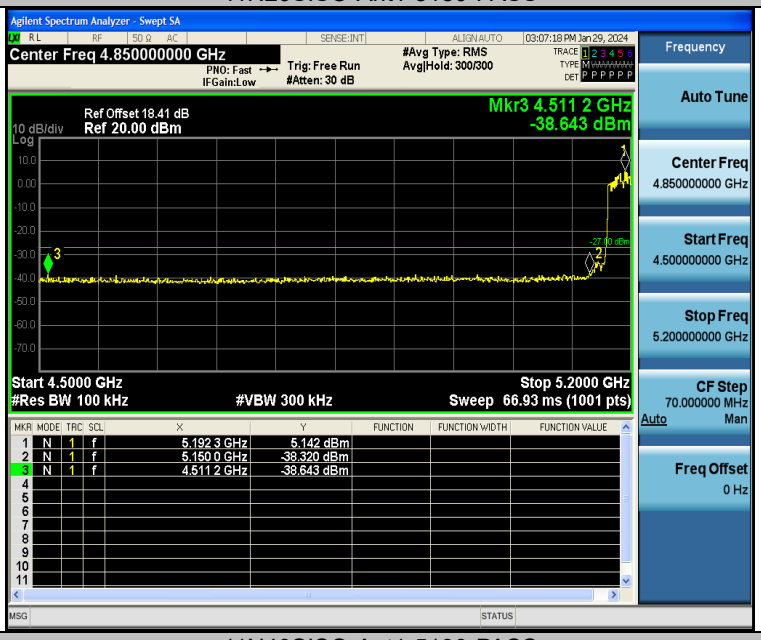
**Test Graphs:**



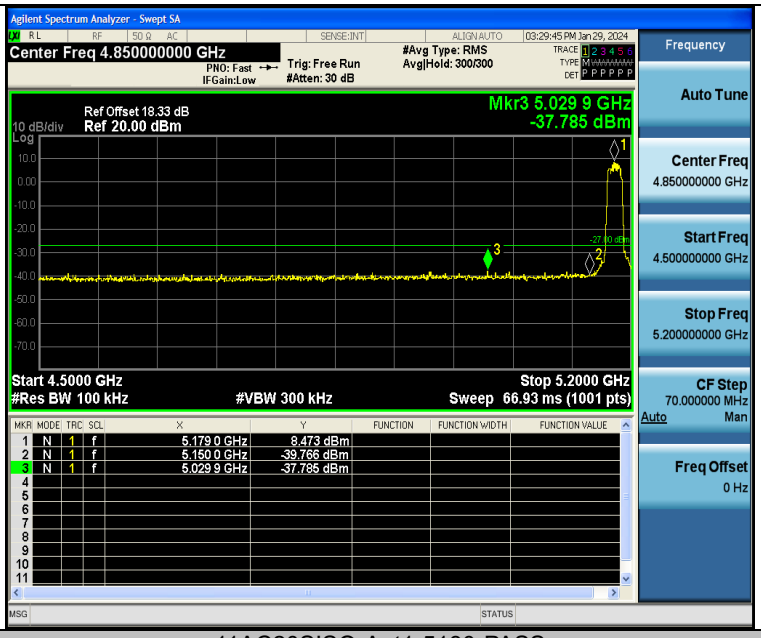

11A-Ant1-5180-PASS



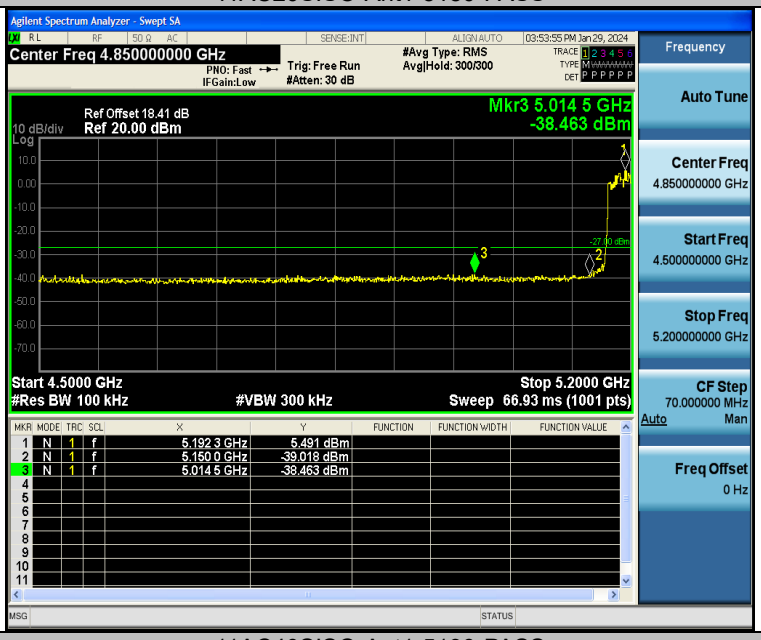

11N20SISO-Ant1-5180-PASS



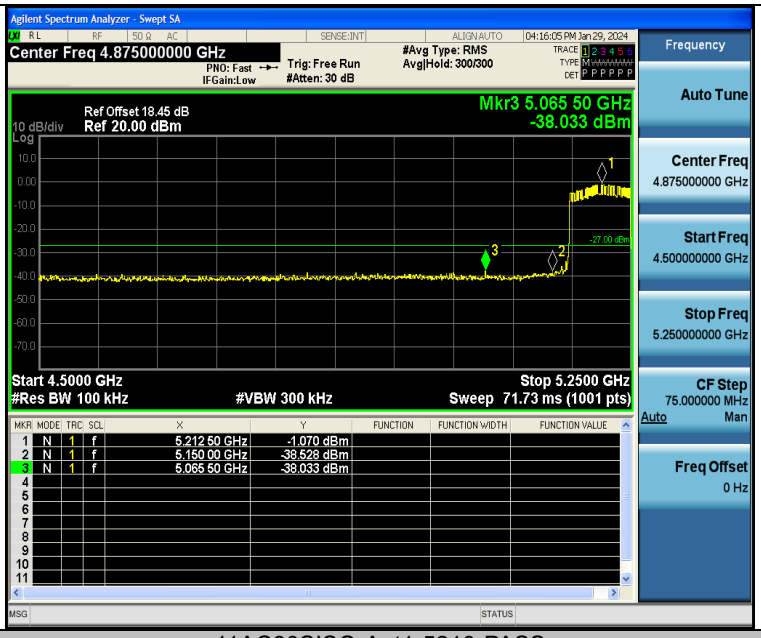

11N40SISO-Ant1-5190-PASS



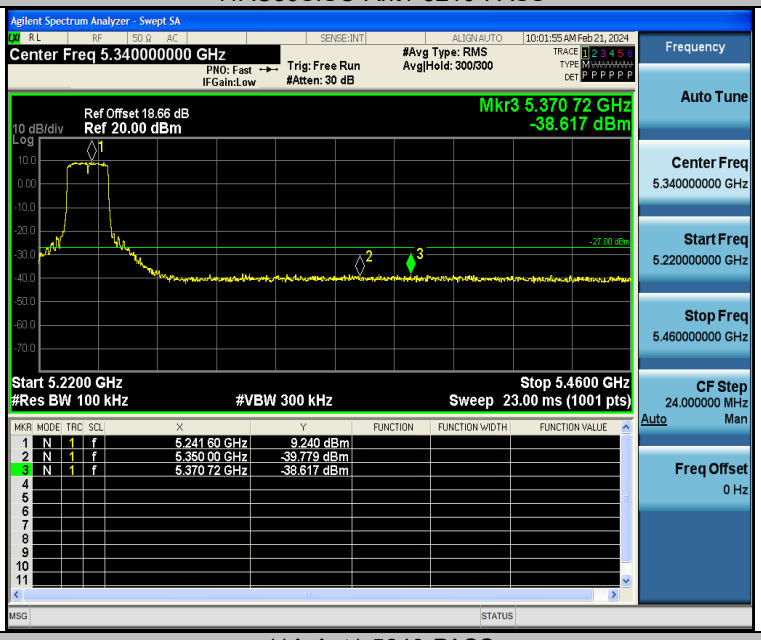

11AC20SISO-Ant1-5180-PASS



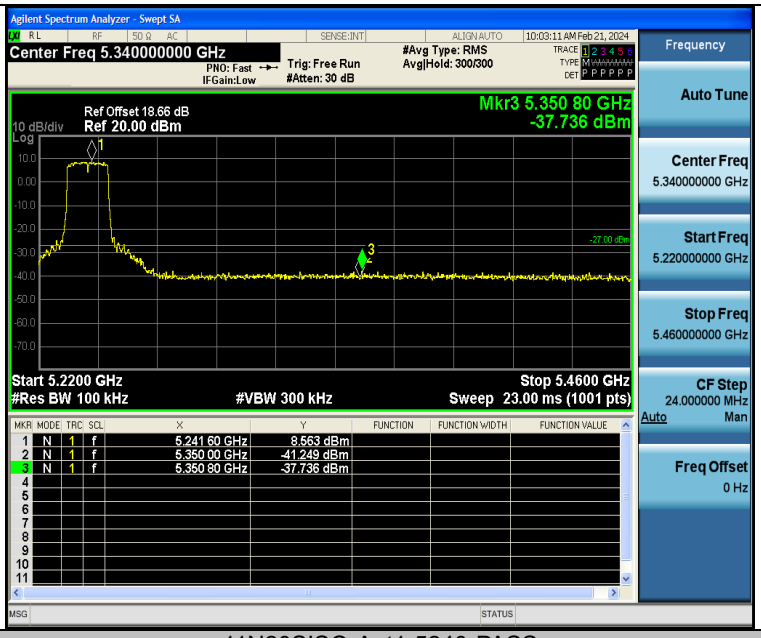

11AC40SISO-Ant1-5190-PASS



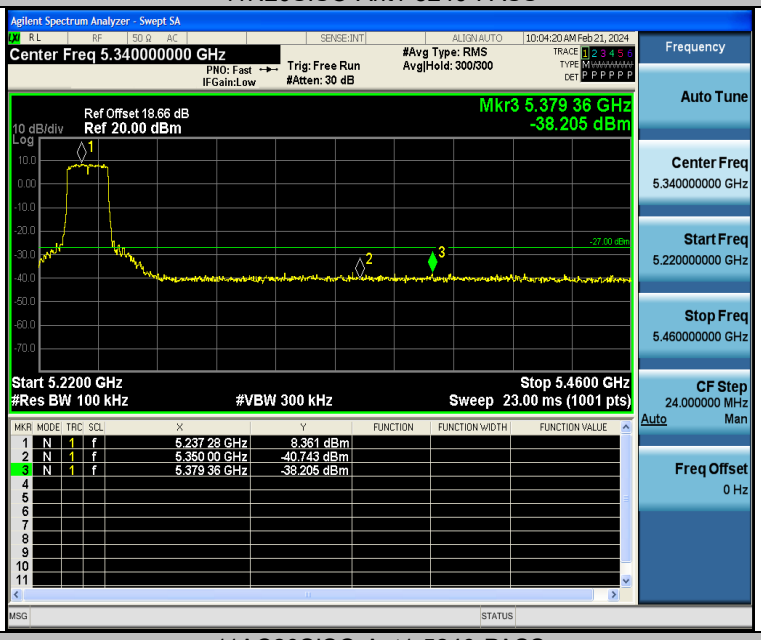

11AC80SISO-Ant1-5210-PASS



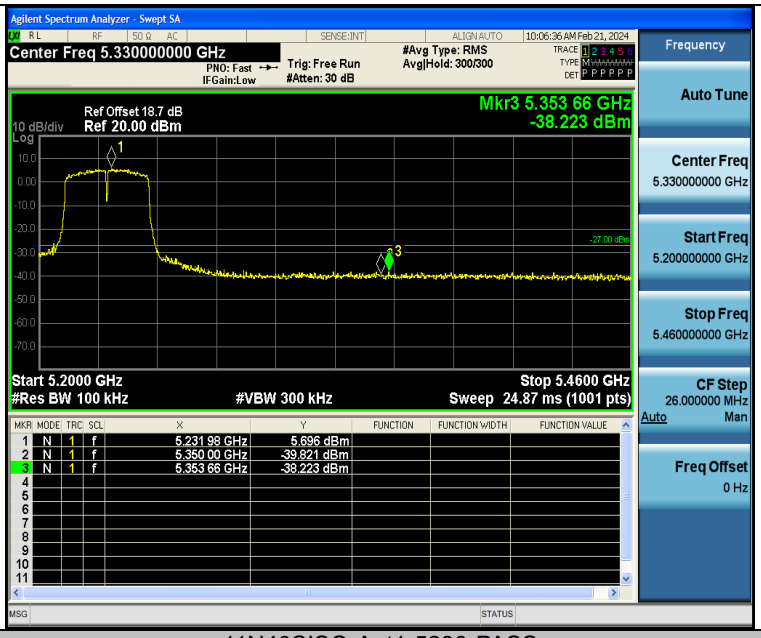

11A-Ant1-5240-PASS



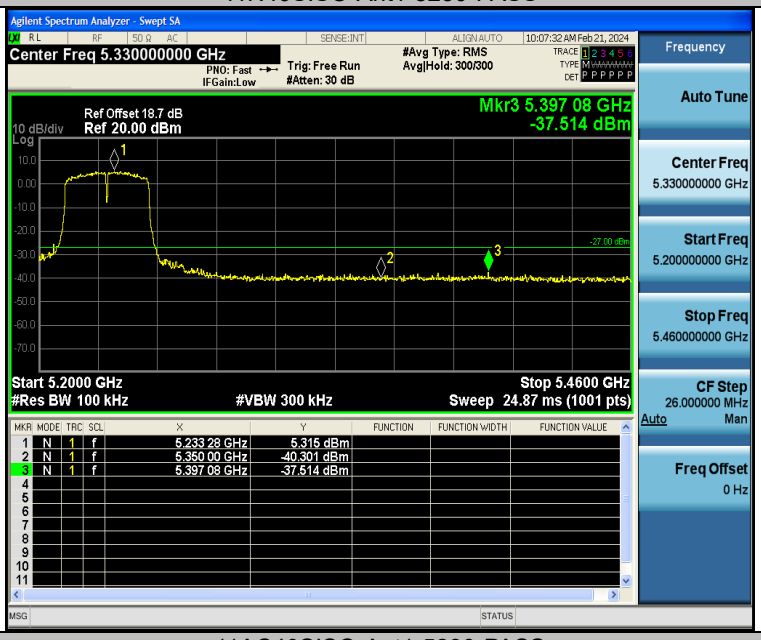

11N20SISO-Ant1-5240-PASS




11AC20SISO-Ant1-5240-PASS

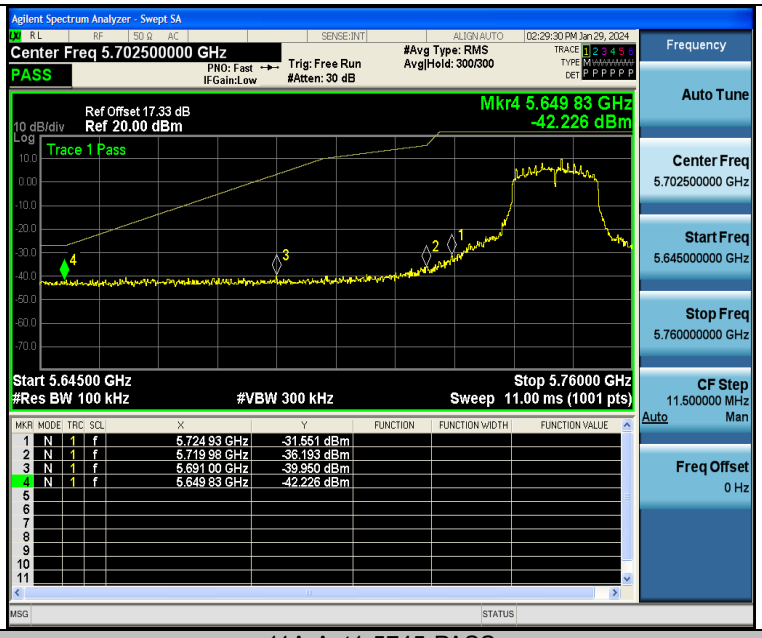



11N40SISO-Ant1-5230-PASS

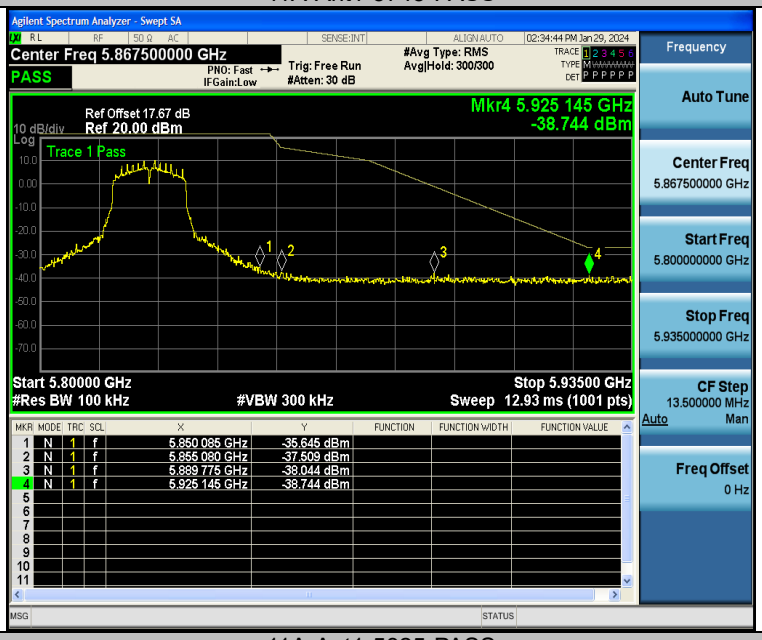



11AC40SISO-Ant1-5230-PASS

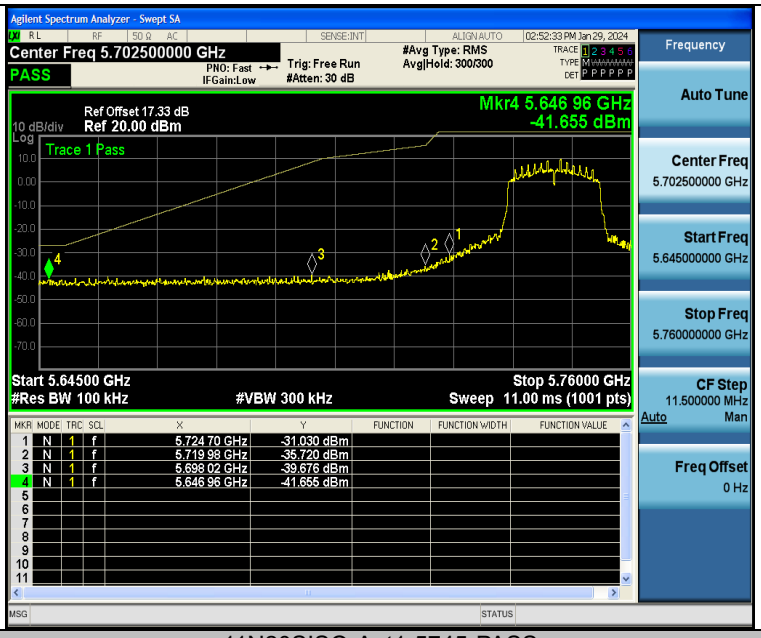
## Test plots B4:



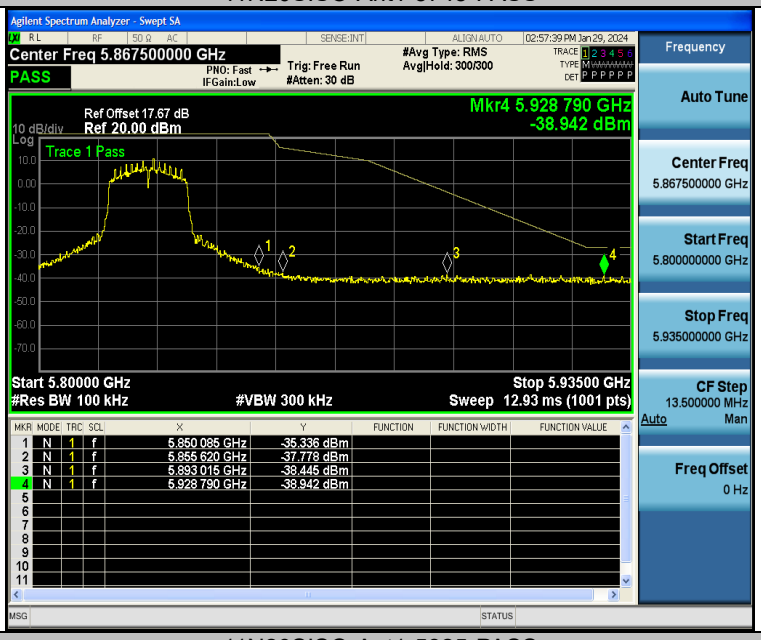

11A-Ant1-5745-PASS



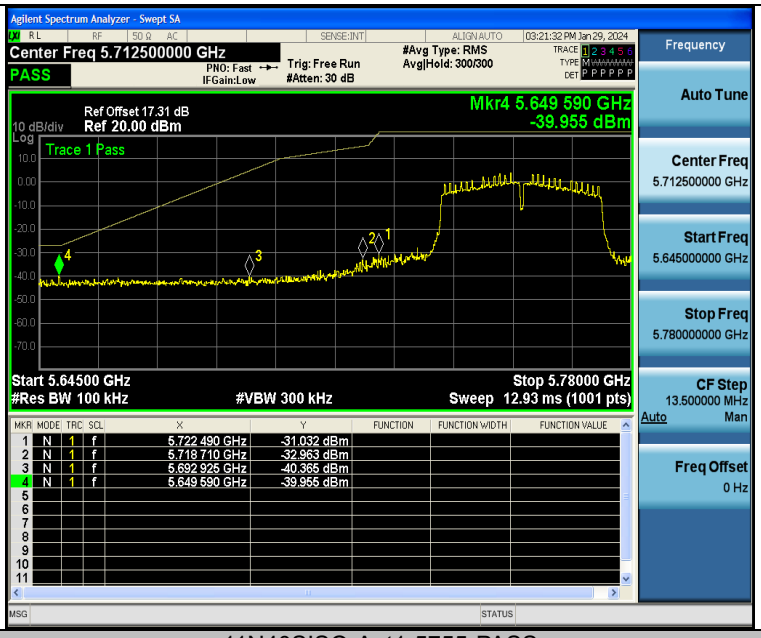

11A-Ant1-5825-PASS




11N20SISO-Ant1-5745-PASS

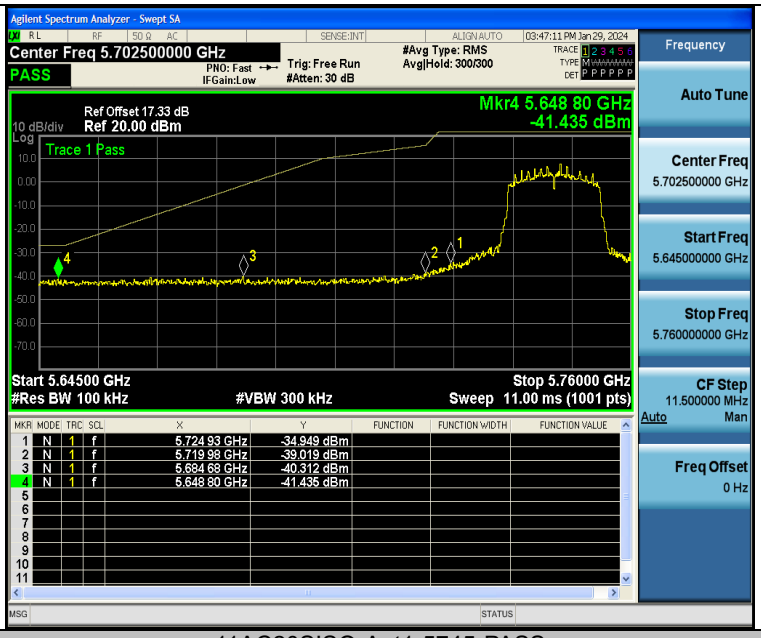



11N20SISO-Ant1-5825-PASS

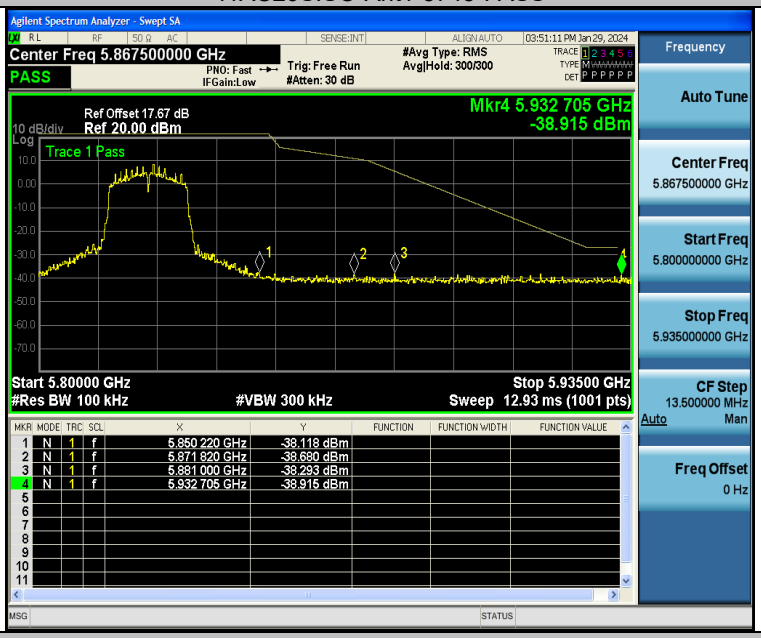



11N40SISO-Ant1-5755-PASS

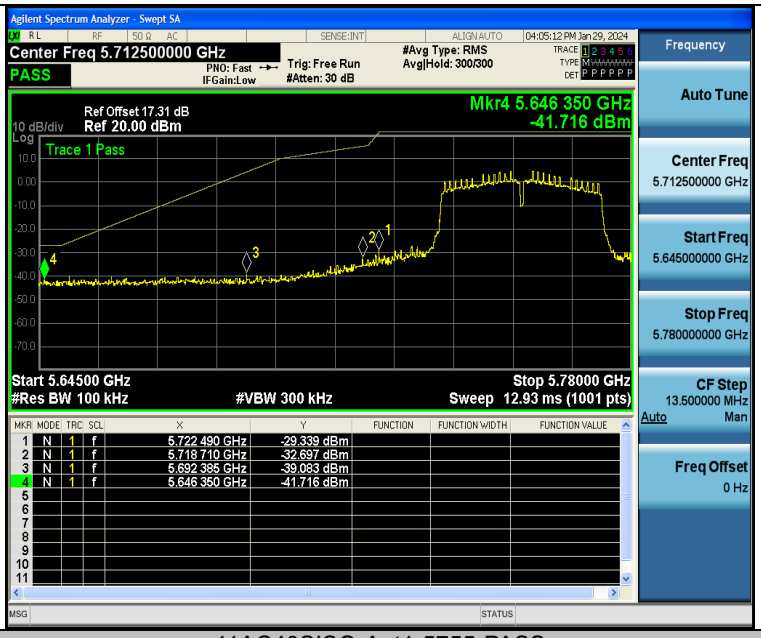
11N40SISO-Ant1-5795-PASS




11AC20SISO-Ant1-5745-PASS

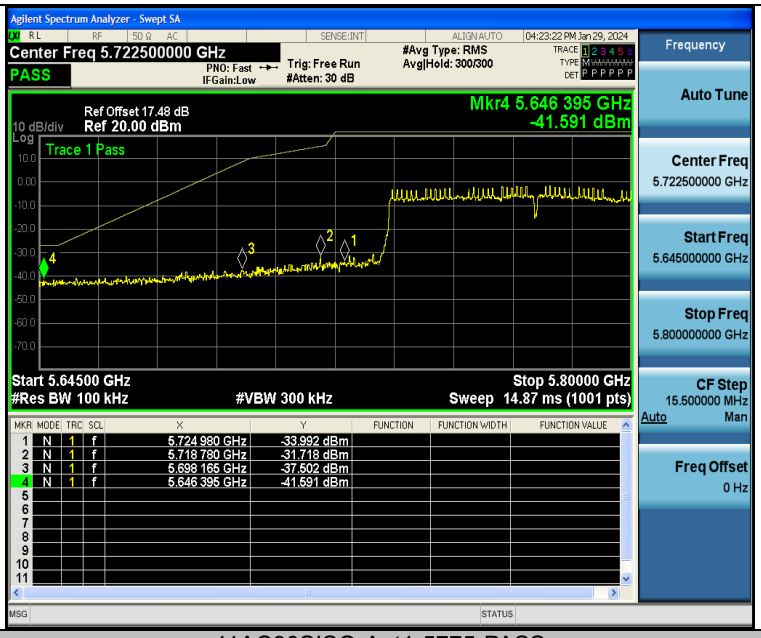



11AC20SISO-Ant1-5825-PASS

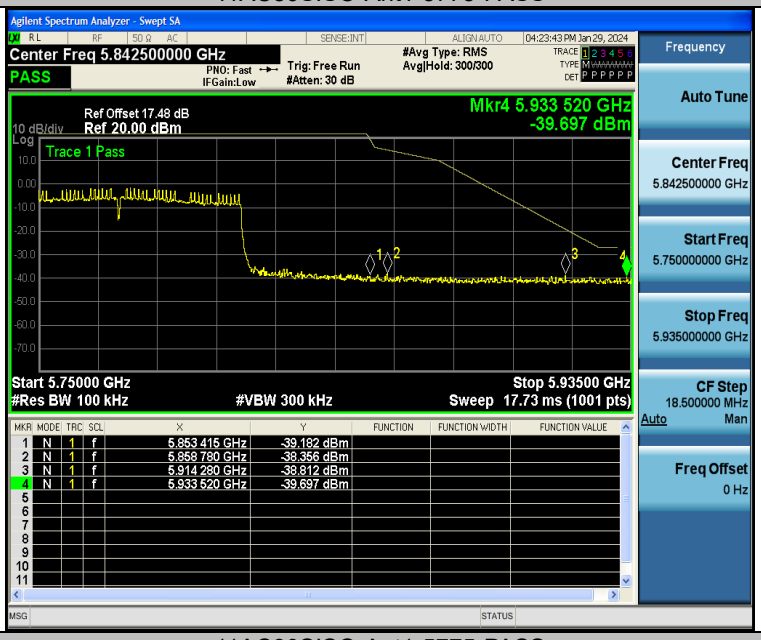



11AC40SISO-Ant1-5755-PASS

11AC40SISO-Ant1-5795-PASS




11AC80SISO-Ant1-5775-PASS




11AC80SISO-Ant1-5775-PASS

# 7 Emission Bandwidth and Occupied Bandwidth

| | | |
|---|---|---|
| Test Requirement | : | FCC CFR47 Part 15 Section 15.407(a)(e) |
| Test Method | : | ANSI C63.10:2013 |
| Test Limit | | According to FCC §15.407(a),<br>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated<br>test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques<br>acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a<br>reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less.<br>Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth<br>of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less.<br>A narrower resolution bandwidth<br>can be used, provided that the measured power is integrated over the full reference bandwidth.<br>As per FCC §15.407(e): for equipment operating in the band 5725 – 5850 MHz, the minimum 6 dB bandwidth of<br>U-NII devices shall be 500 kHz. |

## 7.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01,
Emission Bandwidth (EBW)
a) Set RBW = approximately 1% of the emission bandwidth; b) Set the VBW > RBW; c) Detector = Peak; d) Trace mode = max hold; e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%;99% Occupied Bandwidth
The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in II.G.3.d). Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:
1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ⩾ 3 • RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise,
peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are

placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

## 7.2 Test Result

PASS

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.
Following channel was selected for the final test as listed below.

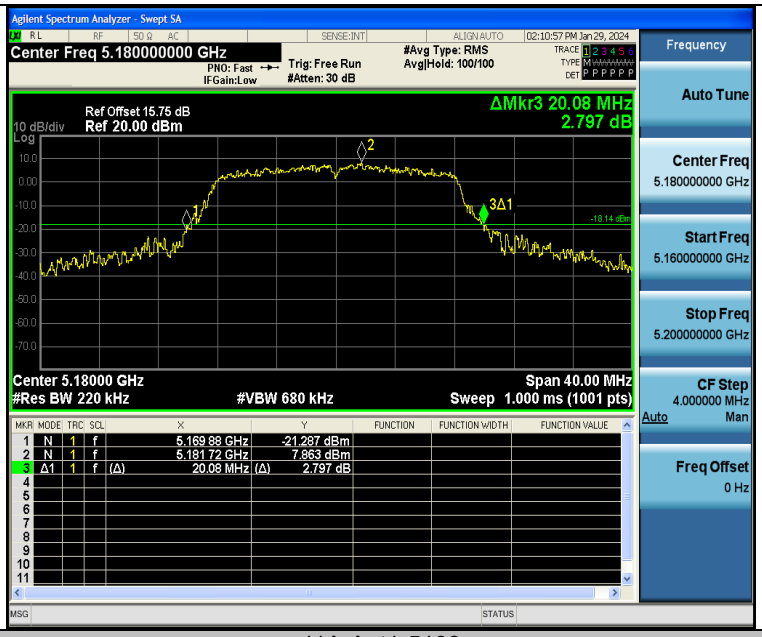
**26 dB emission bandwidth:**

| TestMode | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 20.080 | 5169.880 | 5189.960 | --- | --- |
| 11A | Ant1 | 5200 | 19.640 | 5190.200 | 5209.840 | --- | --- |
| 11A | Ant1 | 5240 | 20.120 | 5229.920 | 5250.040 | --- | --- |
| 11N20SISO | Ant1 | 5180 | 20.040 | 5170.080 | 5190.120 | --- | --- |
| 11N20SISO | Ant1 | 5200 | 20.160 | 5190.000 | 5210.160 | --- | --- |
| 11N20SISO | Ant1 | 5240 | 19.920 | 5230.040 | 5249.960 | --- | --- |
| 11N40SISO | Ant1 | 5190 | 40.400 | 5169.840 | 5210.240 | --- | --- |
| 11N40SISO | Ant1 | 5230 | 40.320 | 5209.840 | 5250.160 | --- | --- |
| 11AC20SISO | Ant1 | 5180 | 19.840 | 5170.080 | 5189.920 | --- | --- |
| 11AC20SISO | Ant1 | 5200 | 19.920 | 5190.000 | 5209.920 | --- | --- |
| 11AC20SISO | Ant1 | 5240 | 20.120 | 5229.920 | 5250.040 | --- | --- |
| 11AC40SISO | Ant1 | 5190 | 40.080 | 5170.240 | 5210.320 | --- | --- |
| 11AC40SISO | Ant1 | 5230 | 40.160 | 5210.000 | 5250.160 | --- | --- |
| 11AC80SISO | Ant1 | 5210 | 81.440 | 5169.520 | 5250.960 | --- | --- |

**minimum 6 dB bandwidth:**

| TestMode | Antenna | Frequency[MHz] | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5745 | 15.120 | 5737.440 | 5752.560 | 0.5 | PASS |
| 11A | Ant1 | 5785 | 12.520 | 5779.960 | 5792.480 | 0.5 | PASS |
| 11A | Ant1 | 5825 | 15.080 | 5817.440 | 5832.520 | 0.5 | PASS |
| 11N20SISO | Ant1 | 5745 | 13.880 | 5737.440 | 5751.320 | 0.5 | PASS |
| 11N20SISO | Ant1 | 5785 | 13.840 | 5778.680 | 5792.520 | 0.5 | PASS |
| 11N20SISO | Ant1 | 5825 | 15.040 | 5817.520 | 5832.560 | 0.5 | PASS |
| 11N40SISO | Ant1 | 5755 | 33.760 | 5737.480 | 5771.240 | 0.5 | PASS |
| 11N40SISO | Ant1 | 5795 | 35.040 | 5777.480 | 5812.520 | 0.5 | PASS |
| 11AC20SISO | Ant1 | 5745 | 13.840 | 5738.720 | 5752.560 | 0.5 | PASS |
| 11AC20SISO | Ant1 | 5785 | 13.880 | 5777.440 | 5791.320 | 0.5 | PASS |
| 11AC20SISO | Ant1 | 5825 | 13.800 | 5817.440 | 5831.240 | 0.5 | PASS |
| 11AC40SISO | Ant1 | 5755 | 30.160 | 5738.680 | 5768.840 | 0.5 | PASS |
| 11AC40SISO | Ant1 | 5795 | 33.760 | 5778.760 | 5812.520 | 0.5 | PASS |
| 11AC80SISO | Ant1 | 5775 | 75.520 | 5737.080 | 5812.600 | 0.5 | PASS |

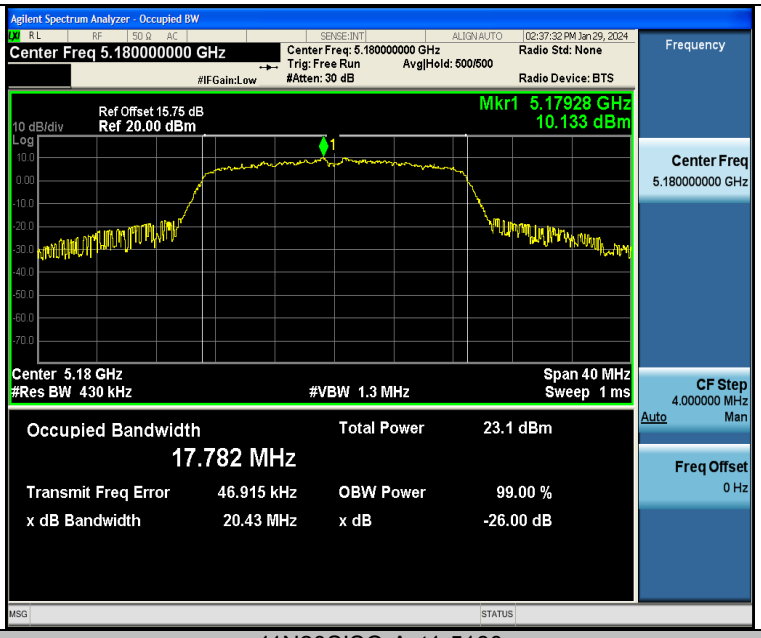
**Test Graphs:**




11A-Ant1-5180

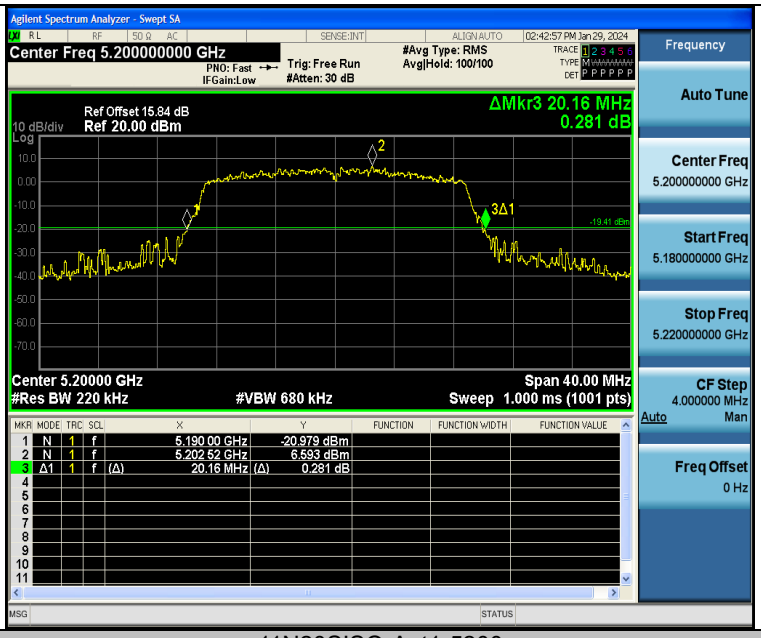
11A-Ant1-5200

11A-Ant1-5240

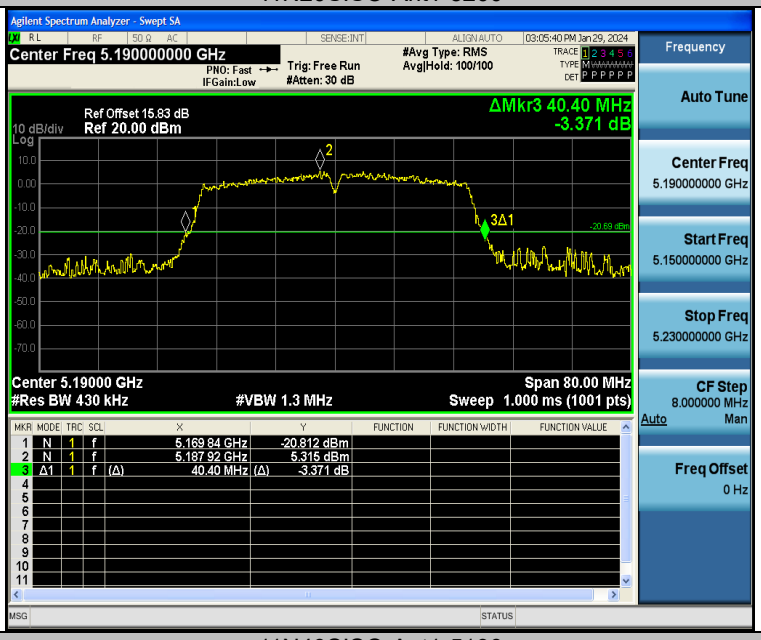



11N20SISO-Ant1-5180

11A-Ant1-5240




11N20SISO-Ant1-5200

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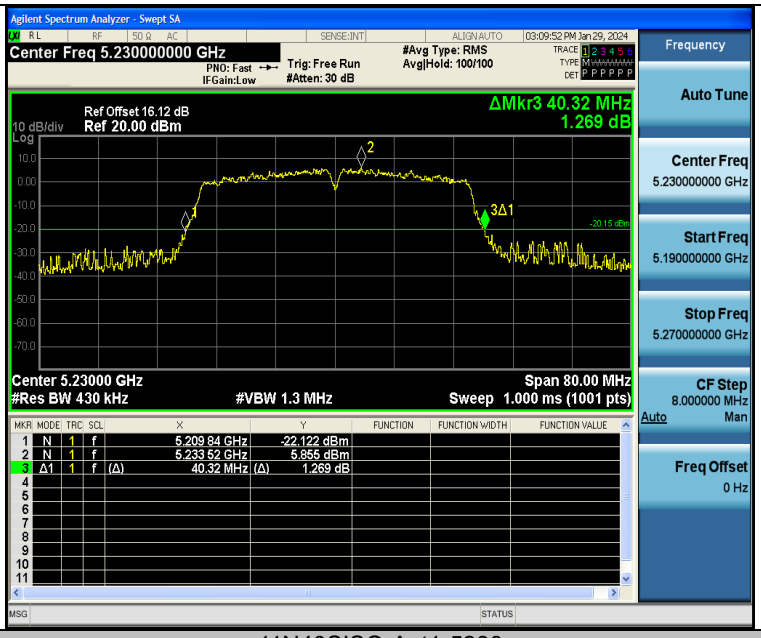


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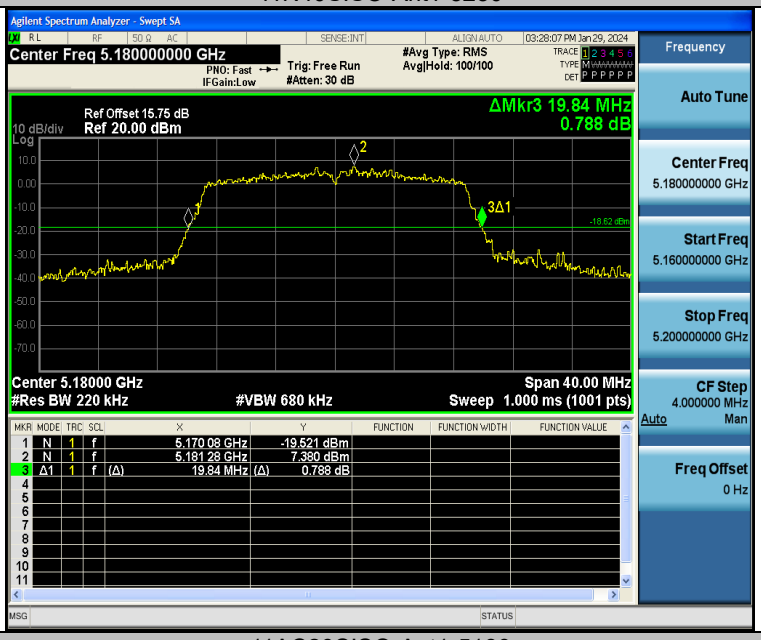


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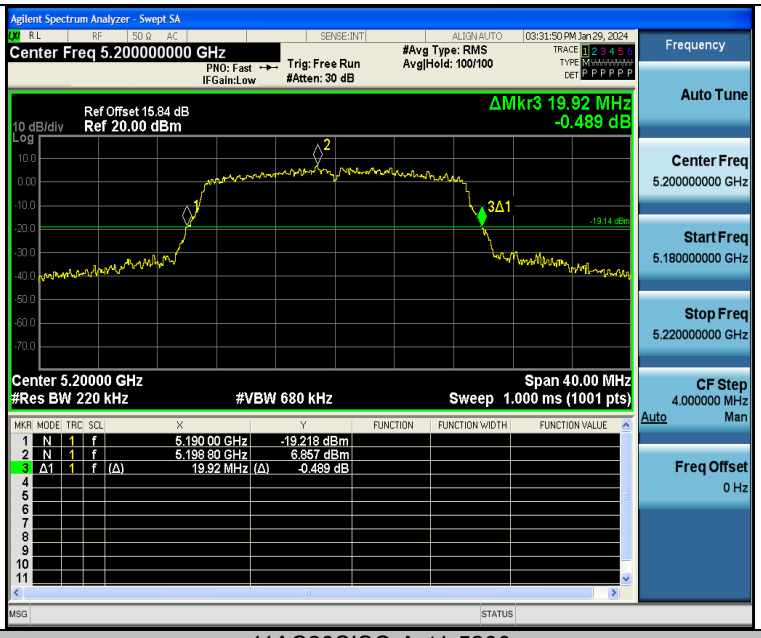


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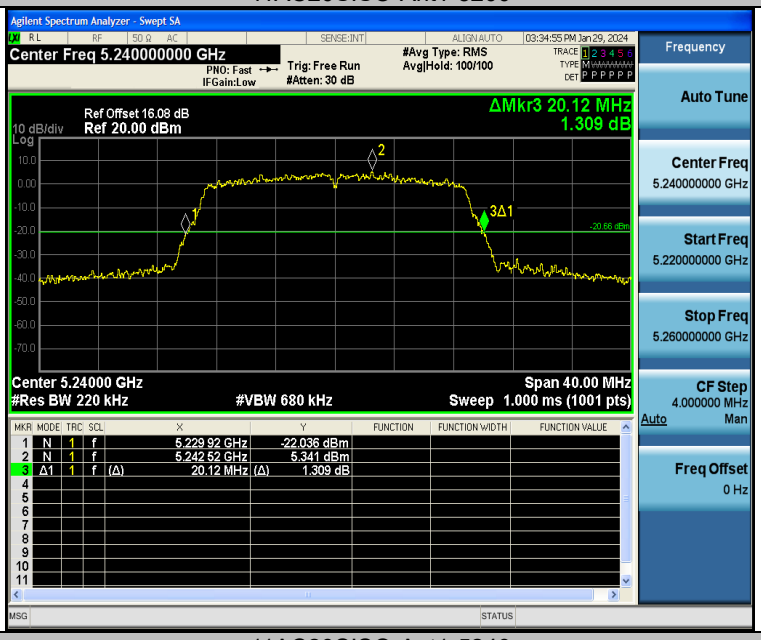


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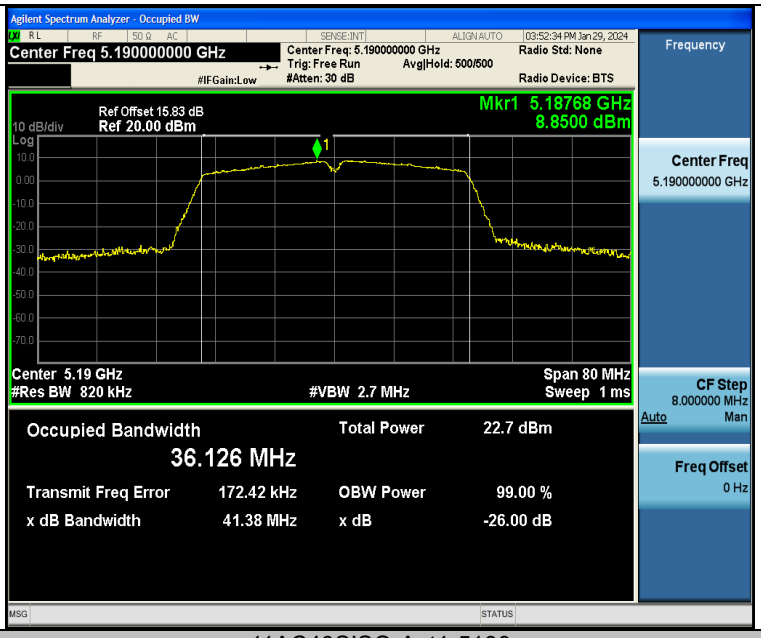


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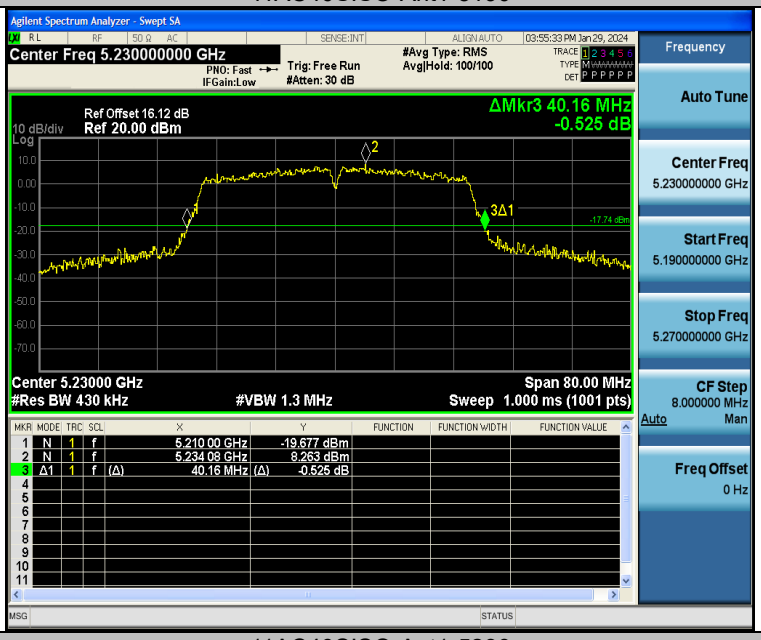


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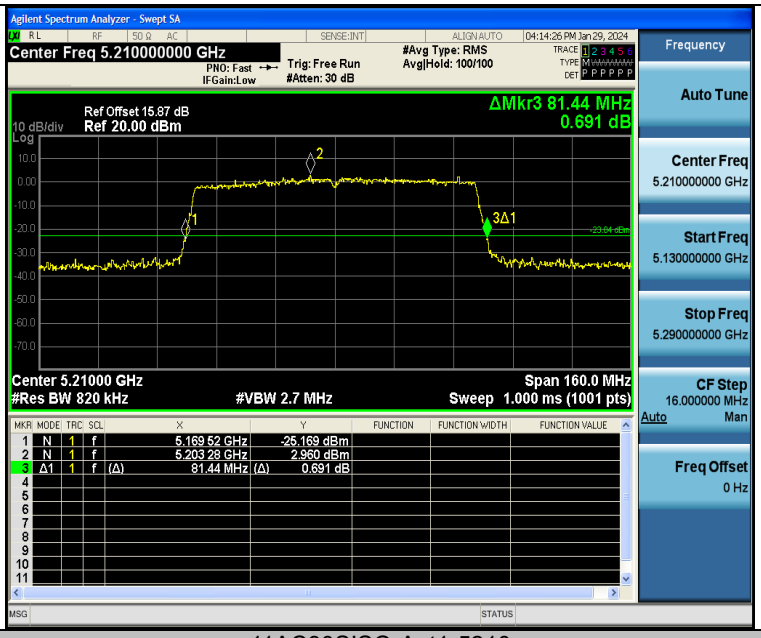
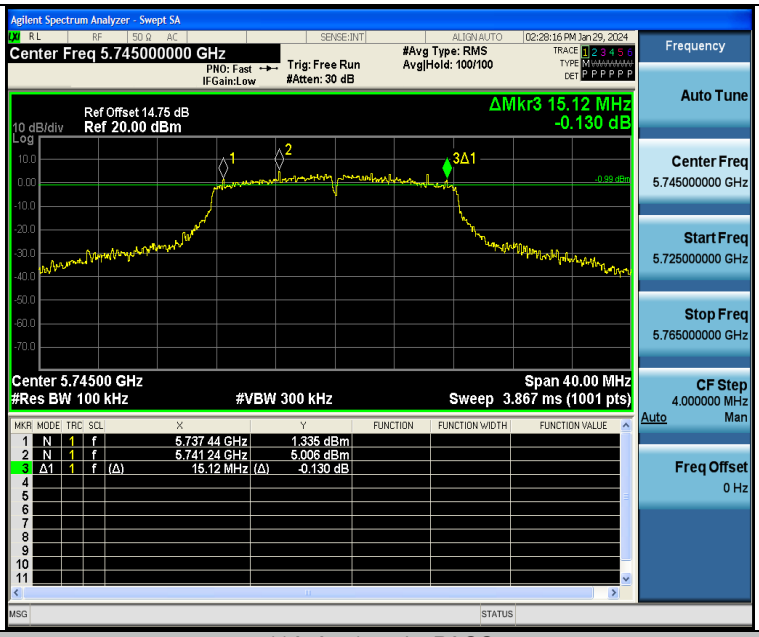
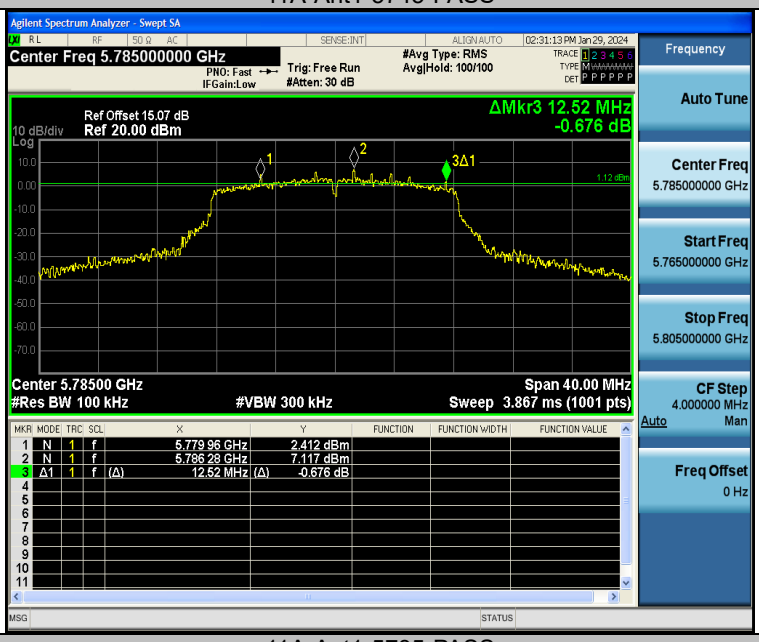



11AC80SISO-Ant1-5210

**Min emission bandwidth Test Graphs:**




11A-Ant1-5745-PASS

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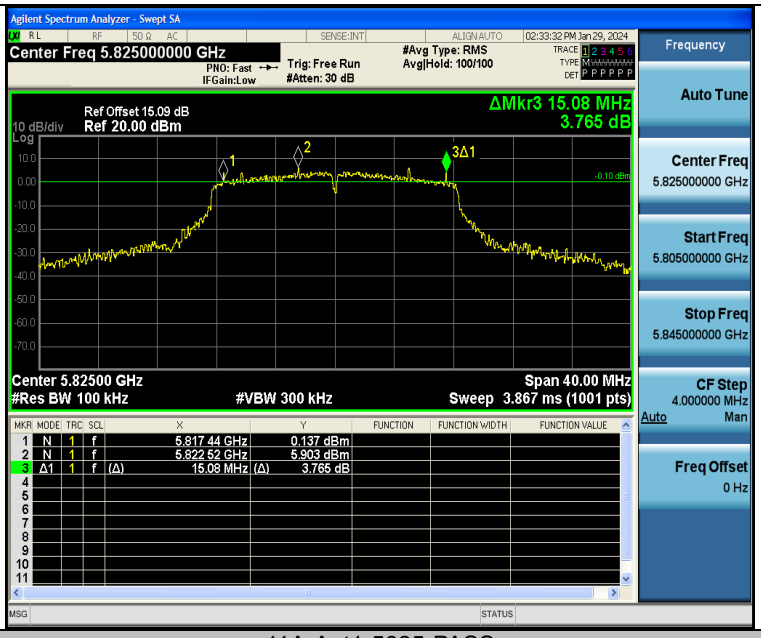


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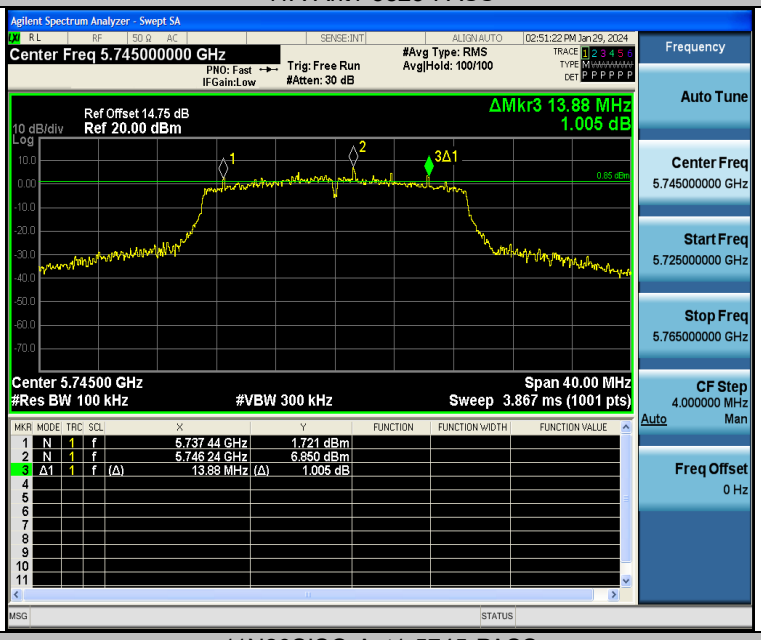


11N20SISO-Ant1-5745-PASS