

Report No.: AAEMT/RF/250609-02-01

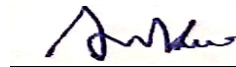
FCC RADIO TEST REPORT

Part 15 subpart E

FCC ID: 2BQTZ-QSR5-INT

Report Reference No.....: AAEMT/RF/250609-02-01
Date of issue.....: 2025-09-10
Testing Laboratory.....: AA Electro Magnetic Test Laboratory Private Limited
Address: Plot No 174, Udyog Vihar - Phase 4, Sector 18,
Gurgaon, Haryana, India
*Applicant's name: Astra Wireless Technology FZ-LLC
*Address: T1-4F-63, RAKEZ Amenity Center, Al Hamra Industrial Zone-FZ,
RAK, United Arab Emirates
*Manufacturer.....: Astra Wireless Technology FZ-LLC
*Address: T1-4F-63, RAKEZ Amenity Center, Al Hamra Industrial Zone-FZ,
RAK, United Arab Emirates
*Test item description.....: Wireless router with an integrated dish antenna
*Trade Mark: **Astra Wireless**
*Model/Type reference: QSR5-29
Ratings: EUT Input: DC 48V,0.5A
Input of PoE :100~240VAC, 50/60 Hz, 0.75A MAX,
Output of PoE: DC 48.0V, 0.5A, 24.0W

Prepared By: (+ signature) Ankur Kumar



Reviewed & Approved by: (+ signature)



Dr. Lenin Raja (Authorized Representative) (/ lenin83/)

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TEST REPORT DECLARE

| | | |
|----------------------|---|----------------------------------------------------------------------------------------|
| Applicant | : | Astra Wireless Technology FZ-LLC |
| Address | : | T1-4F-63, RAKEZ Amenity Center, Al Hamra Industrial Zone-FZ, RAK, United Arab Emirates |
| Equipment under Test | : | Wireless router with an integrated dish antenna |
| Model No | : | QSR5-29 |
| Trade Mark | : | Astra Wireless |
| Manufacturer | : | Astra Wireless Technology FZ-LLC |
| Address | : | T1-4F-63, RAKEZ Amenity Center, Al Hamra Industrial Zone-FZ, RAK, United Arab Emirates |

Test Standard Used: FCC Part 15E 15.407

Test procedure used: ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01 .

We Declare:

The equipment described above is tested by AA Electro Magnetic Test Laboratory Private Limited and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and AA Electro Magnetic Test Laboratory Private Limited is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

*Disclaimer: The * Information are provided by Manufacturer and it is verified through the Request form and Marking Label, AA Electro Magnetic Test Laboratory is not responsible for the above information accuracy.*

| | | | |
|---------------|-------------------------|-----------------|---------------|
| Report No: | AAEMT/RF/250609-02-01 | | |
| Date of Test: | Jun. 09 ~ Aug. 12, 2025 | Date of Report: | Sep. 10, 2025 |

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AA Electro Magnetic Test Laboratory Private Limited

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1. SUMMARY OF TEST RESULTS

| The EUT have been tested according to the applicable standards as referenced below. | | |
|-------------------------------------------------------------------------------------|---------------------------|---------|
| FCC Part15 (15.407) , Subpart E | | |
| Description of Test Item | Standard | Results |
| AC Power Line Conducted Emissions | FCC §15.207/ RSS-Gen | PASS |
| Spurious Radiated Emissions | FCC §15.209(a), 15.407(b) | PASS |
| 6 dB and 99% Emission Bandwidth | FCC §15.407(a) | PASS |
| Maximum Conducted Output Power | FCC §407(a) (1) | PASS |
| Band Edges | FCC §2.1051, §15.407(b) | PASS |
| Power Spectral Density | FCC §15.407(a)(1) | PASS |
| Spurious Emissions at Antenna Terminals | FCC §2.1051, §15.407(b) | PASS |
| Antenna Requirement | FCC §15.203 | PASS |

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2. GENERAL TEST INFORMATION

2.1. DESCRIPTION OF EUT

| | |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *EUT Name | : Wireless router with an integrated dish antenna |
| *Model Number | : QSR5-29 |
| *Derivative model No.: | : QSR5-26 |
| Serial No: | 392491 |
| Power supply | EUT Input: DC 48V,0.5A : Input of PoE :100~240VAC, 50/60 Hz, 0.75A MAX, Output of PoE: DC48.0V, 0.5A, 24.0W |
| Operation frequency | WiFi: 802.11ax(HE20): 5745MHz~5825MHz : 802.11ax(VHT40): 5755MHz~5795MHz 802.11ax(VHT80): 5775MHz |
| Modulation | 802.11ax: : BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM/4096QAM |
| Data Rate | : 802.11ax(HE20/HE40/80): MCS0-MCS13 |
| *Antenna Type: | : Parabolic dish antenna |
| *Antenna Gain: | : 29dBi |
| *H/W No. | : H16YY |
| *S/W No. | : AstraFLEX H16S31-MINTv0.0.0-585 rev:eda97c9 |
| Battery | : N/A |
| Date of Receipt | : Jun. 09, 2025 |
| Condition of Sample on receipt | Good |
| Note: | 1 .For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain and antenna type provided by manufacturer. |
| Opinions and Interpretations: | : See the specific Note / Annexure if any in the whole /full report /NA |

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| Channel List | | | | | | | |
|------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 802.11ax (20MHz) | | | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| - | - | - | - | - | - | - | - |
| 149 | 5745 | 153 | 5765 | 157 | 5785 | 161 | 5805 |
| 165 | 5825 | -- | -- | -- | -- | -- | -- |
| 802.11ax (40MHz) | | | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| - | - | - | - | 151 | 5755 | 159 | 5795 |
| 802.11ax (80MHz) | | | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| - | - | - | - | - | - | 155 | 5775 |

2.2. ACCESSORIES OF EUT

| Description of Accessories | Shielded Type | Ferrite Core | Length |
|----------------------------|---------------|--------------|--------|
| PoE | N/A | N/A | N/A |

2.3. ASSISTANT EQUIPMENT USED FOR TEST

| Description of Assistant equipment | Manufacturer | Model number or Type | EMC Compliance | SN |
|------------------------------------|--------------|----------------------|----------------|---------|
| Laptop | DELL | Latitude 3490 | - | 5M2Z1W2 |

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3. EQUIPMENT'S LIST FOR ALL TEST ITEMS

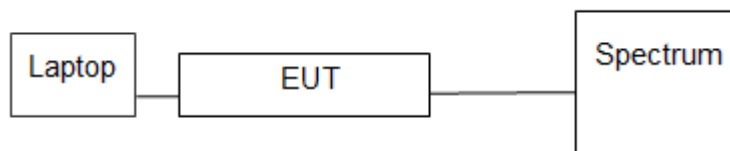
| No | Test Equipment | Manufacturer | Model No | Serial No | Cal. Due Date |
|----|-----------------------|-------------------|-------------|------------|---------------|
| 1 | Spectrum Analyser | R&S | FSP | - | 2026/01/10 |
| 2 | Loop antenna | DA ZE Beijing | ZN30900C | 18052 | 2026/09/15 |
| 3 | Hi power horn antenna | DAZE Beijing | ZN30700 | 18012 | 2026/09/10 |
| 4 | MXA Signal Analyzer | KEYSIGHT | N9020A | MY53290443 | 2026/07/26 |
| 5 | Horn antenna | DAZE Beijing | ZN30703 | 18005 | 2026/09/10 |
| 6 | Pre-Amplifier | KELIANDA | LNA-0009295 | - | 2026/01/10 |
| 7 | Pre-Amplifier | HP | 8447FOPTH64 | - | 2026/01/10 |
| 8 | Biconical Antenna | DAZE Beijing | ZN30505C | 17038 | 2026/09/10 |
| 9 | EMI- Test RECEIVER | Rohde and Schwarz | ESIB26 | 509371 | 2027/06/10 |
| 10 | LISN | Kyoritsu | KNW-407 | 8-1789-5 | 2026/01/10 |
| 11 | Network – LISN | Schwarzbeck | NNBM8125 | 81251314 | 2026/01/10 |
| 12 | Network – LISN | Schwarzbeck | NNBM8125 | 81251315 | 2026/01/10 |
| 13 | PULSE LIMITER | Rohde and Schwarz | ESH3-Z2 | 100681 | - |
| 14 | 50Ω Coaxial Switch | DAIWA | 1565157 | - | - |
| 15 | 50Ω Coaxial Switch | - | - | - | - |

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| | | | | | |
|----|---------------------------------------------|--------------------------------------|----------|-------------------|------------|
| 16 | USB RF Power Sensor | DARE!! | RPR3006W | 18I00043SNOO 2 | 2026/01/12 |
| 17 | USB RF Power Sensor | DARE!! | RPR3006W | 18I00043SNOO 4 | 2026/01/12 |
| 18 | Signal Generator | KEYSIGHT | N5181A | 512071 | 2026/01/10 |
| 19 | RF Vector Signal Generator | KEYSIGHT | N5182B | 512094 | 2026/01/10 |
| 20 | Spectrum analyzer | ROHDE & SCHWARZ | FSV40-N | 101385 | 2026/04/28 |
| 21 | DC Regulated Power Supply | Mettravi | RPS-3005 | 669076 | 2025/12/11 |
| 22 | Climatic Chamber (Environmental Chamber) | SUNRISE SCIENTIFIC INSTRUMENTS | - | - | 2025/11/05 |
| 23 | Attenuators | HP | 8494B | 1510A04625 | 2026/03/21 |
| 24 | Attenuators | AGILENT | 8495B | MY42140429 | 2026/03/21 |

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3.1. BLOCK DIAGRAM OF EUT CONFIGURATION FOR TEST



3.2. TEST ENVIRONMENT CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

| | |
|--------------------|-----------|
| Temperature range: | 21-25°C |
| Humidity range: | 40-75% |
| Pressure range: | 86-106kPa |

3.3. MEASUREMENT UNCERTAINTY

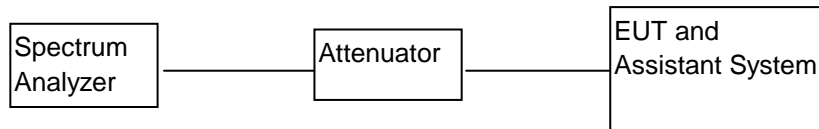
| No. | Item | Uncertainty |
|-----|-------------------------------|-------------|
| 1 | Conducted Emission Test | 2.70dB |
| 2 | Radiated Emission Test | 3.09dB |
| 3 | RF power, conducted | 2.46dB |
| 4 | RF power density, conducted | 2.24dB |
| 5 | Spurious emissions, conducted | 2.71dB |
| 6 | All emissions, radiated(<1G) | 3.08dB |
| 7 | All emissions, radiated(>1G) | 3.09dB |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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4. POWER SPECTRAL DENSITY TEST

4.1. BLOCK DIAGRAM OF TEST SETUP



4.2. APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omni directional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi..

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4.3. TEST PROCEDURE

(For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.1.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHz is available on nearly all spectrum analyzers.

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4.4. TEST RESULT:

Antenna 0:

| CH. No. | Frequency | Power density (dBm/500KHz) | Limit (dBm/500KHz) | Result |
|--------------------|-----------|-------------------------------|-----------------------|--------|
| TX 802.11ax20 Mode | | | | |
| CH 149 | 5745 | 11.41 | 30 | Pass |
| CH 157 | 5785 | 11.10 | 30 | Pass |
| CH 165 | 5825 | 11.65 | 30 | Pass |
| TX 802.11ax40 Mode | | | | |
| CH151 | 5755 | 8.53 | 30 | Pass |
| CH159 | 5795 | 9.01 | 30 | Pass |
| TX 802.11ax80 Mode | | | | |
| CH155 | 5775 | 9.34 | 30 | Pass |

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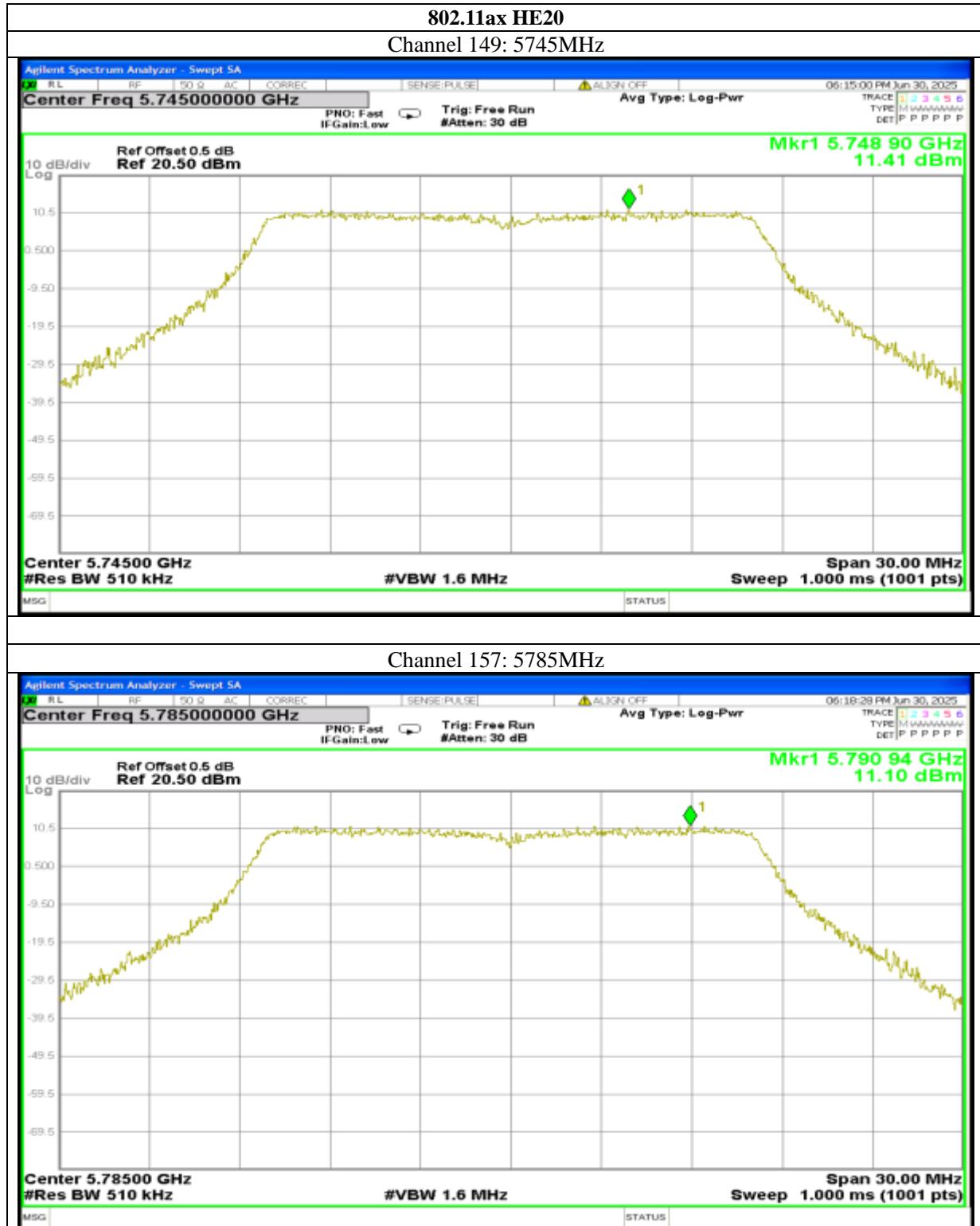
Antenna 1:

| CH. No. | Frequency | Power density (dBm/500kHz) | Limit (dBm/500kHz) | Result |
|--------------------|-----------|-------------------------------|-----------------------|--------|
| TX 802.11ax20 Mode | | | | |
| CH 149 | 5745 | 12.59 | 30 | Pass |
| CH 157 | 5785 | 12.16 | 30 | Pass |
| CH 165 | 5825 | 12.42 | 30 | Pass |
| TX 802.11ax40 Mode | | | | |
| CH151 | 5755 | 9.19 | 30 | Pass |
| CH159 | 5795 | 9.39 | 30 | Pass |
| TX 802.11ax80 Mode | | | | |
| CH155 | 5775 | 10.24 | 30 | Pass |

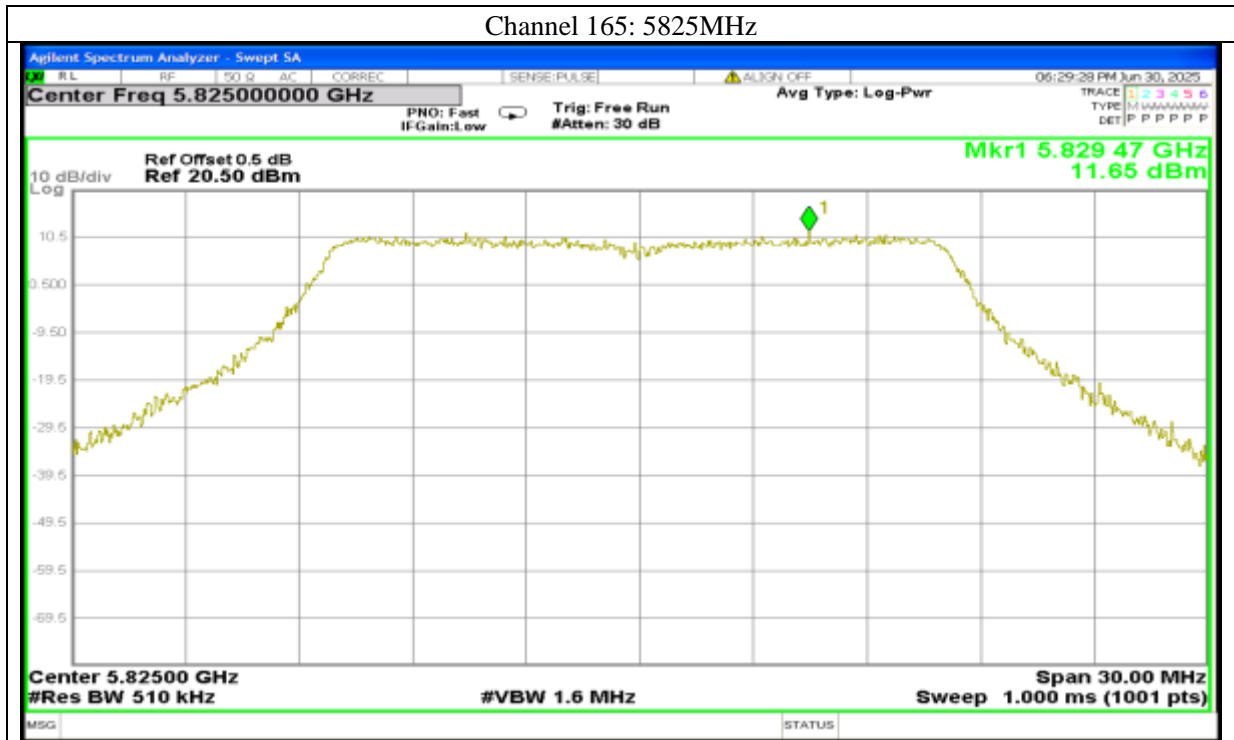
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Test plots as followed

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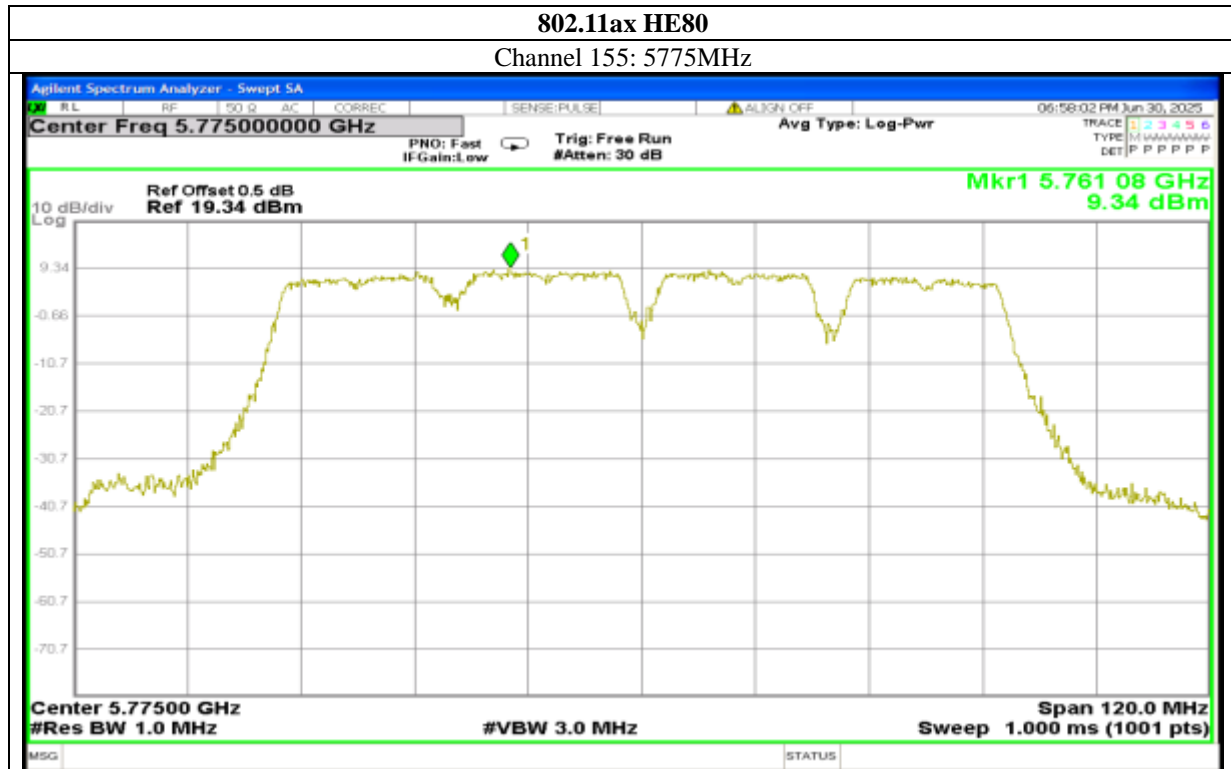
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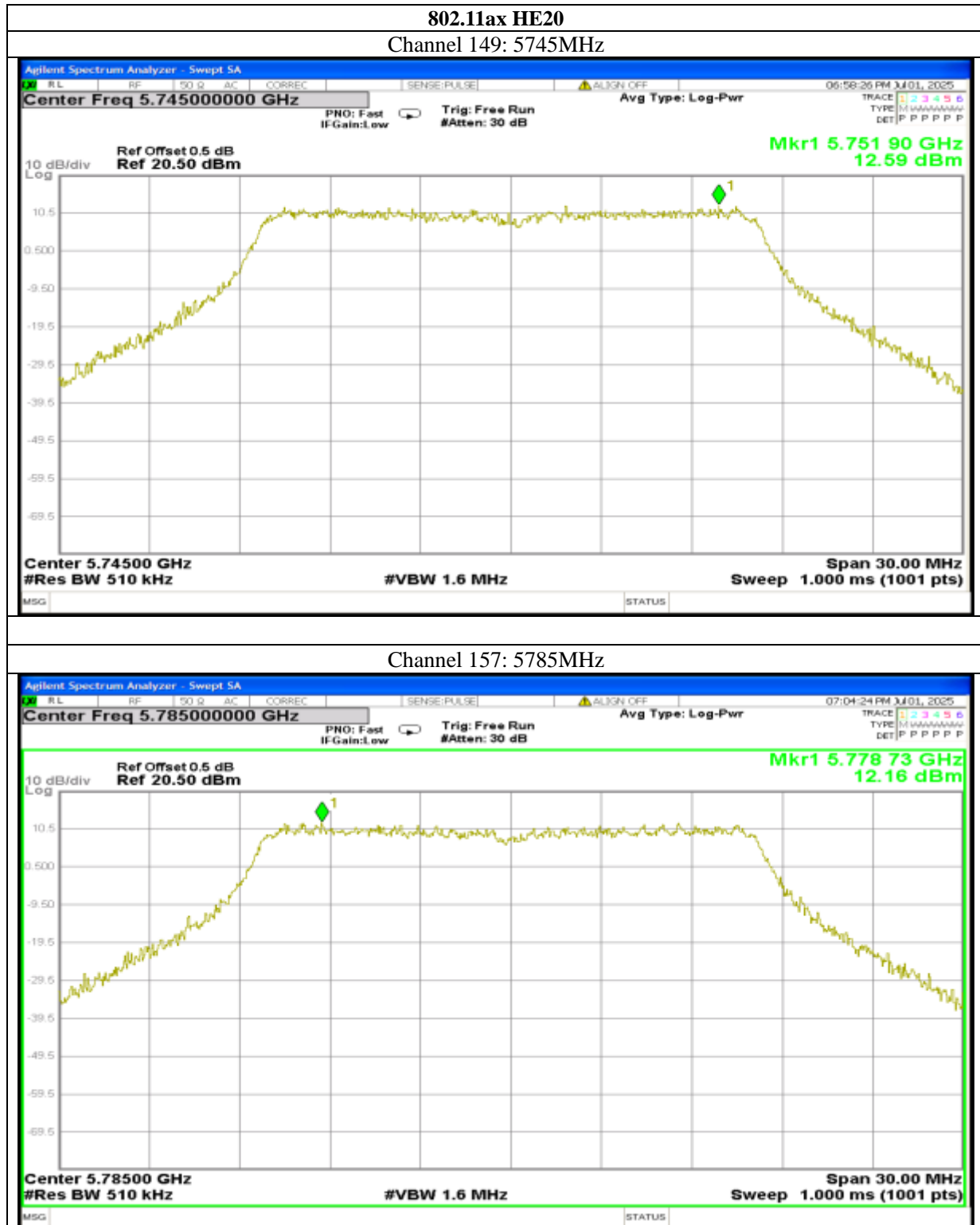


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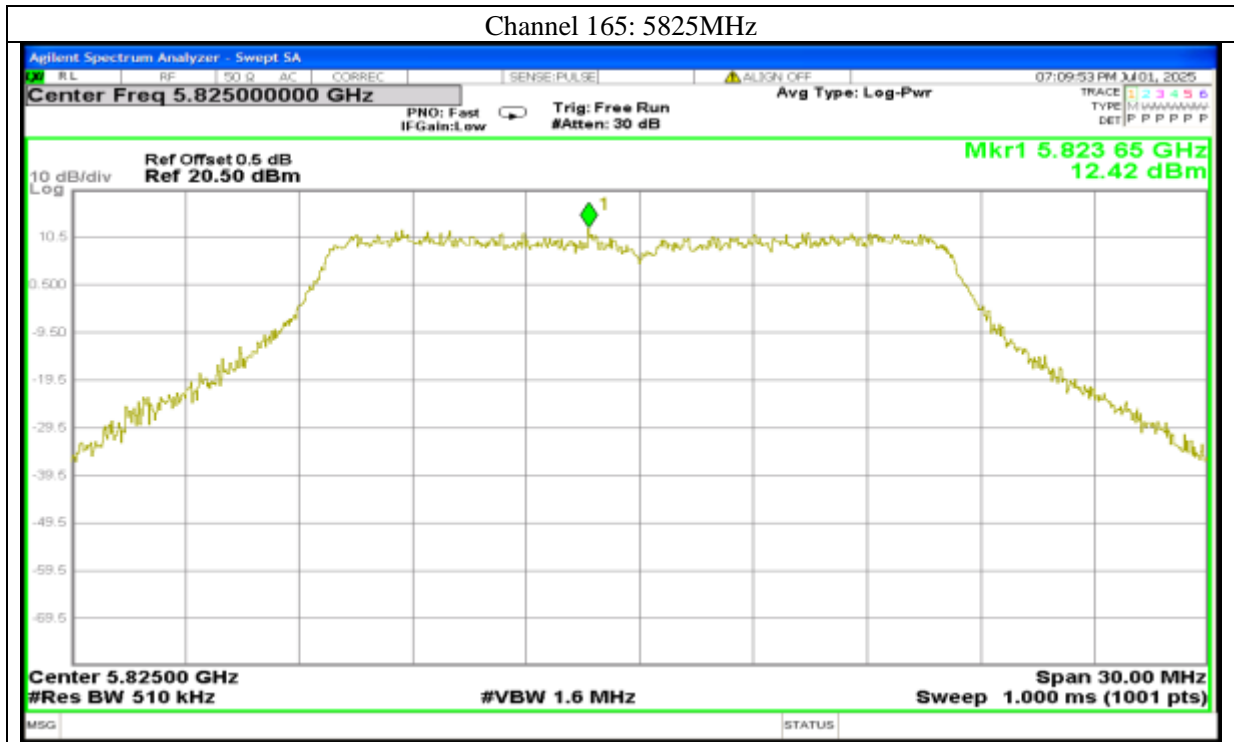


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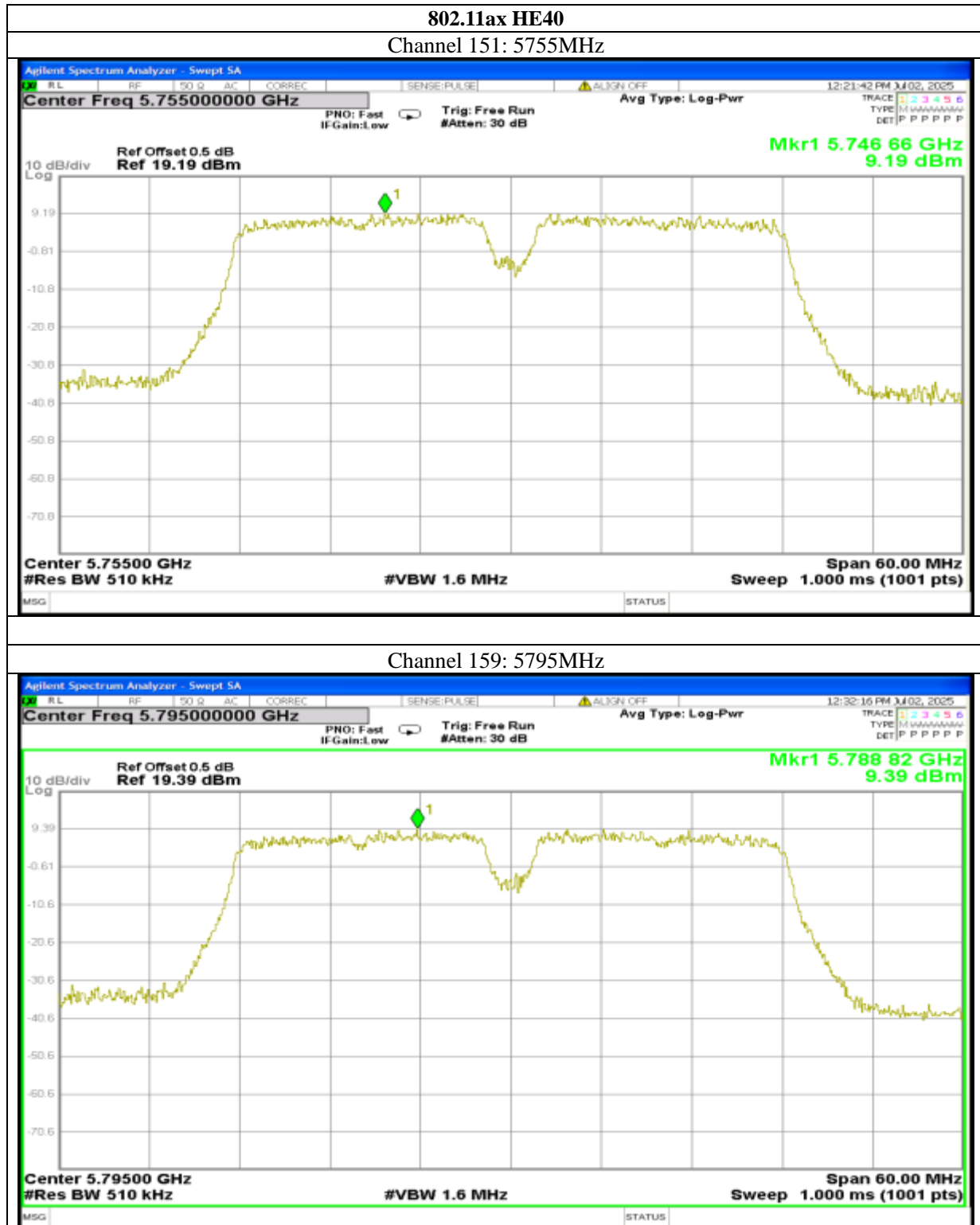
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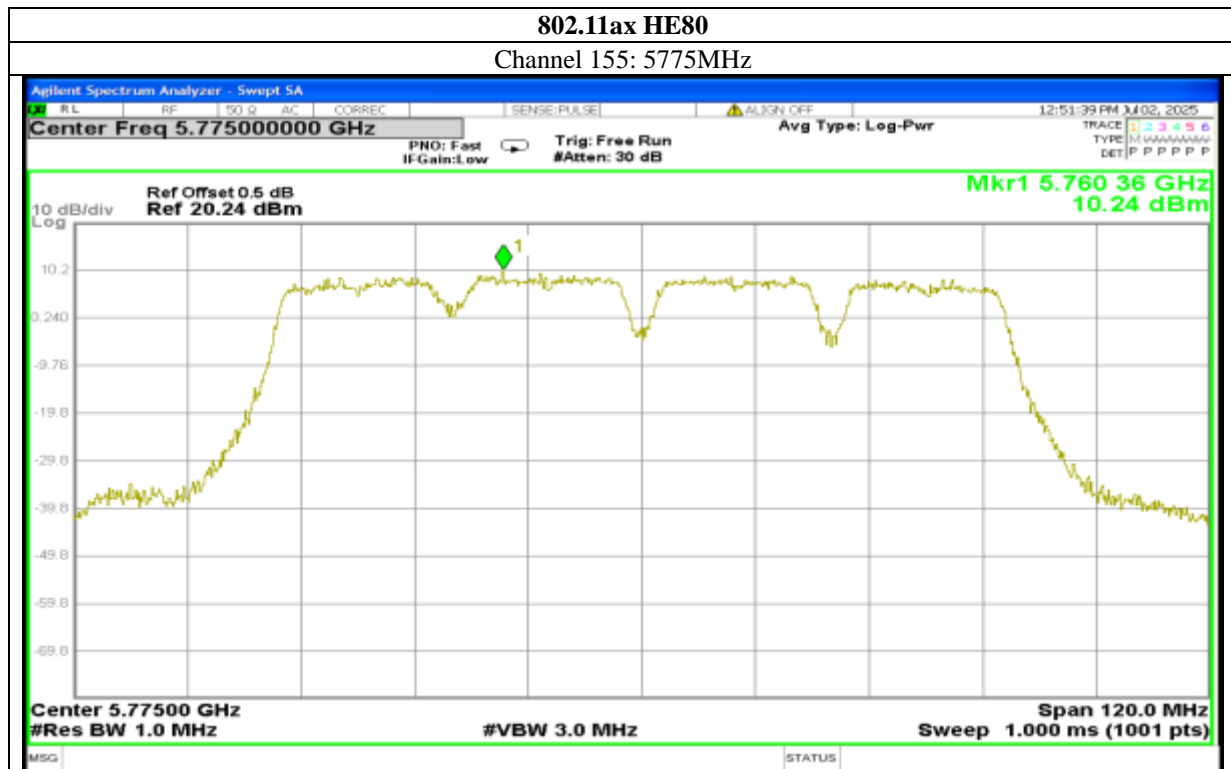
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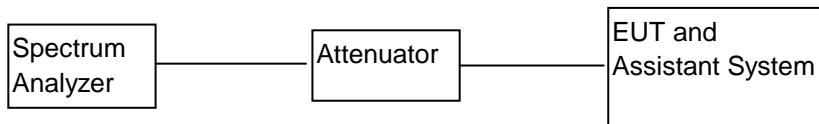


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5. 6 dB & 99% Emission Bandwidth

5.1. BLOCK DIAGRAM OF TEST SETUP



5.2. APPLIED PROCEDURES / LIMIT

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. 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 of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

5.3. TEST PROCEDURE

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set $VBW \geq 3 \cdot RBW$
- 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.
- Use the 99 % power bandwidth function of the instrument (if available).
- 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.

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5.4. TEST RESULT

Antenna 0:

| CH. No. | Frequency (MHz) | 6dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|------------|--------------------|------------------------------|------------------------------|
| | | 802.11ax (VHT20) | 802.11ax (VHT20) |
| 149 | 5745.00 | 16.440 | 16.527 |
| 157 | 5785.00 | 16.440 | 16.549 |
| 165 | 5825.00 | 16.440 | 16.560 |

| CH. No. | Frequency (MHz) | 6dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|------------|--------------------|------------------------------|------------------------------|
| | | 802.11ax (VHT40) | 802.11ax (VHT40) |
| 151 | 5755.00 | 35.820 | 36.036 |
| 159 | 5795.00 | 36.420 | 36.053 |

| CH. No. | Frequency (MHz) | 6dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|------------|--------------------|------------------------------|------------------------------|
| | | 802.11ax (VHT80) | 802.11ax (VHT80) |
| 155 | 5775.00 | 75.960 | 75.644 |

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Antenna 1:

| CH. No. | Frequency (MHz) | 6dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|---------|-----------------|------------------------------|------------------------------|
| | | 802.11ax (HE20) | 802.11ax (HE20) |
| 149 | 5745.00 | 16.440 | 16.514 |
| 157 | 5785.00 | 16.440 | 16.507 |
| 165 | 5825.00 | 16.470 | 16.510 |

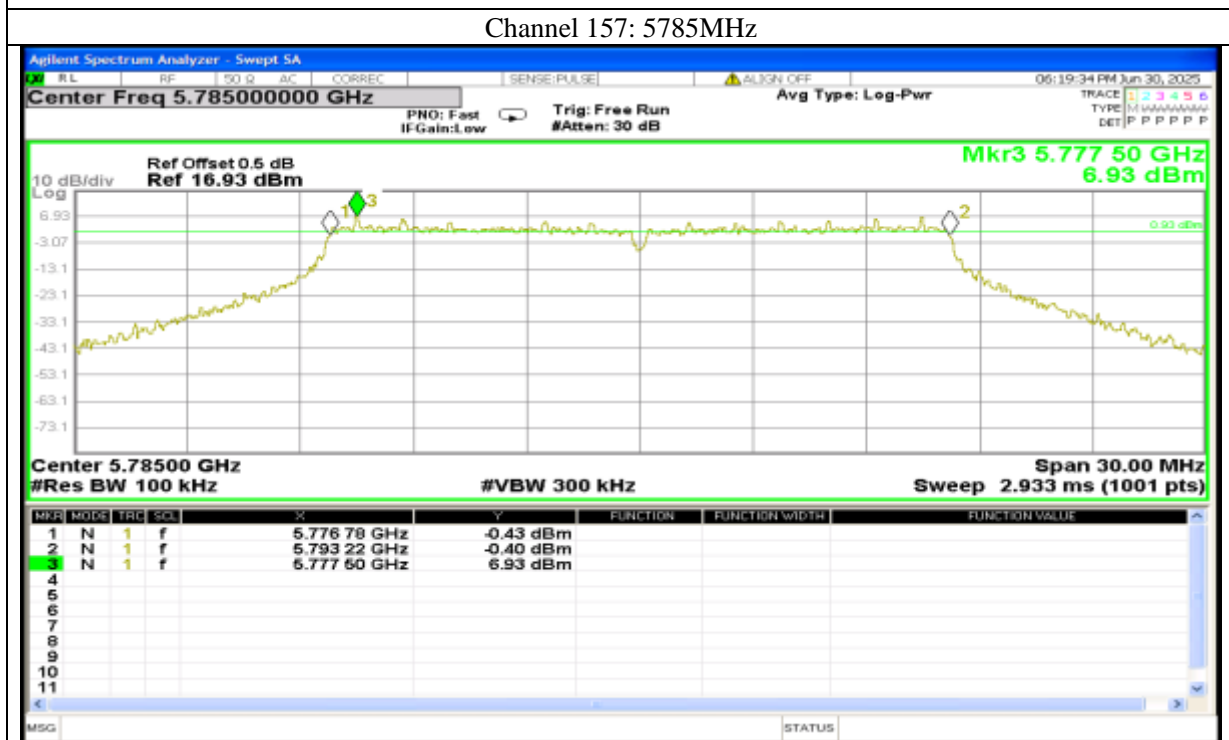
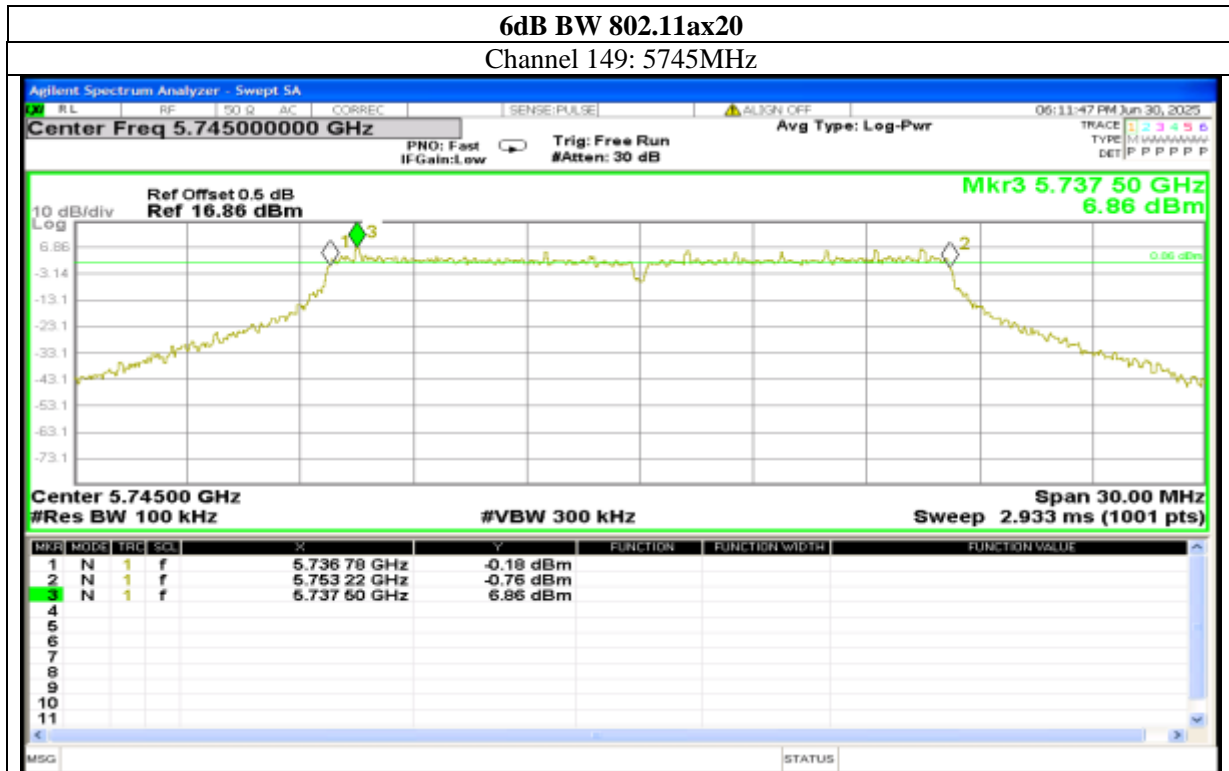
| CH. No. | Frequency (MHz) | 6dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|---------|-----------------|------------------------------|------------------------------|
| | | 802.11ax (HE40) | 802.11ax (HE40) |
| 151 | 5755.00 | 36.420 | 36.039 |
| 159 | 5795.00 | 36.420 | 36.055 |

| CH. No. | Frequency (MHz) | 6dB Occupied Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|---------|-----------------|------------------------------|------------------------------|
| | | 802.11ax (HE80) | 802.11ax (HE80) |
| 155 | 5775.00 | 76.560 | 75.573 |

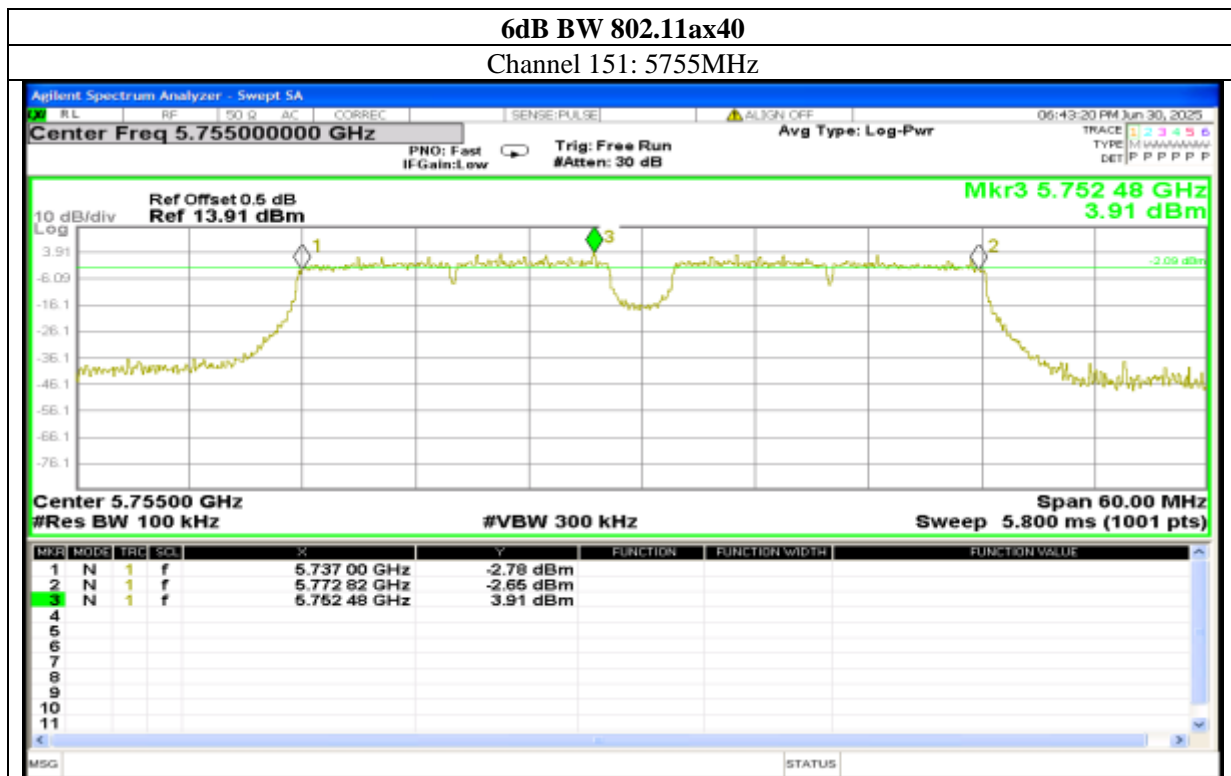
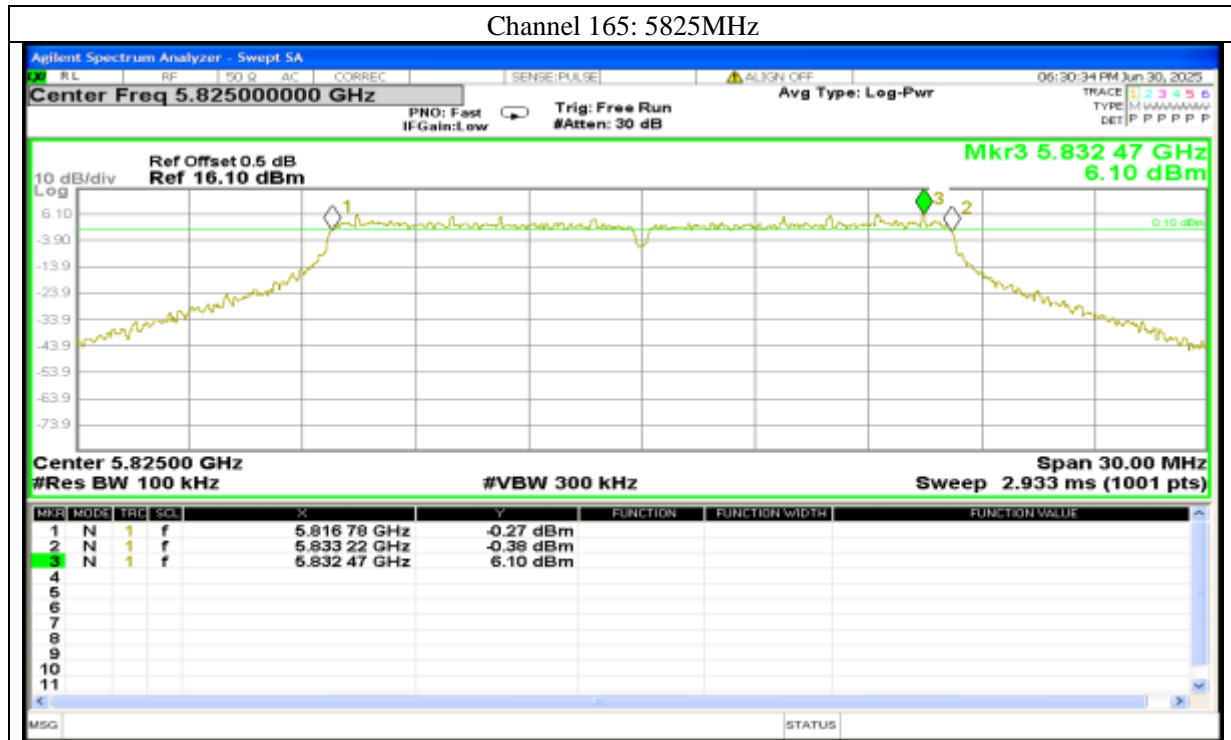
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Test plots as followed:

Antenna 0:

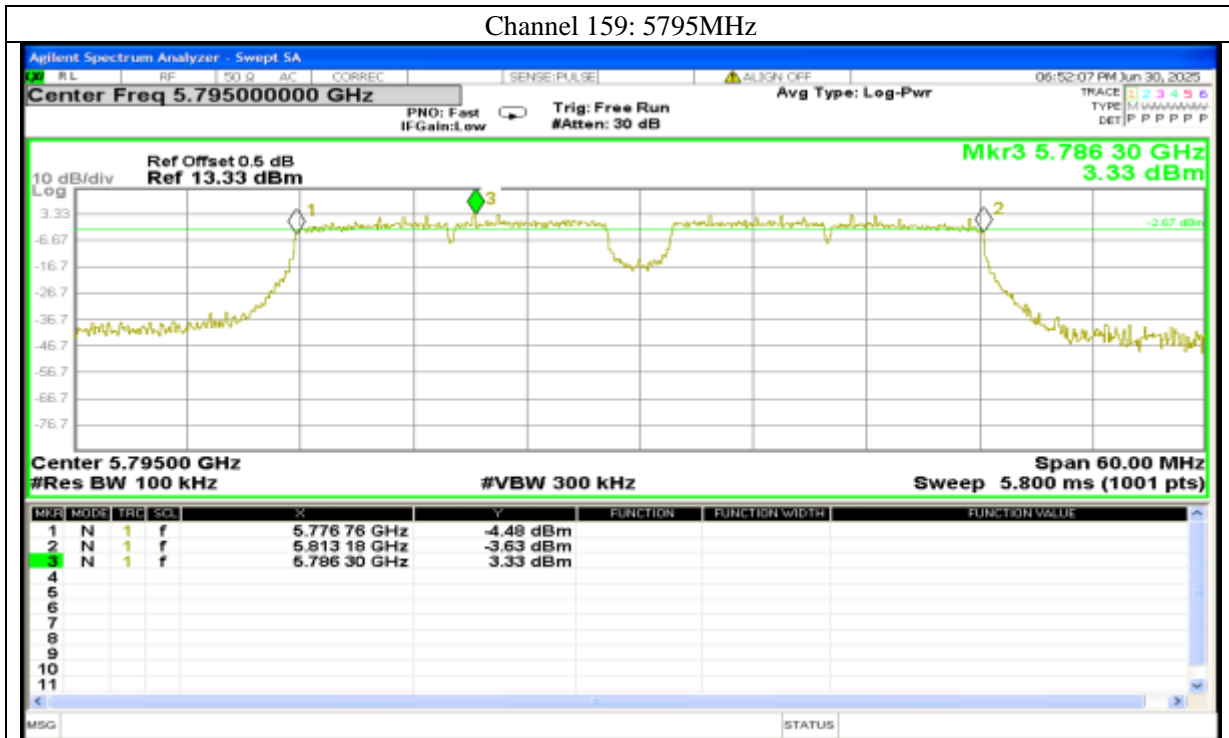


Report No.: AAEMT/RF/250609-02-01



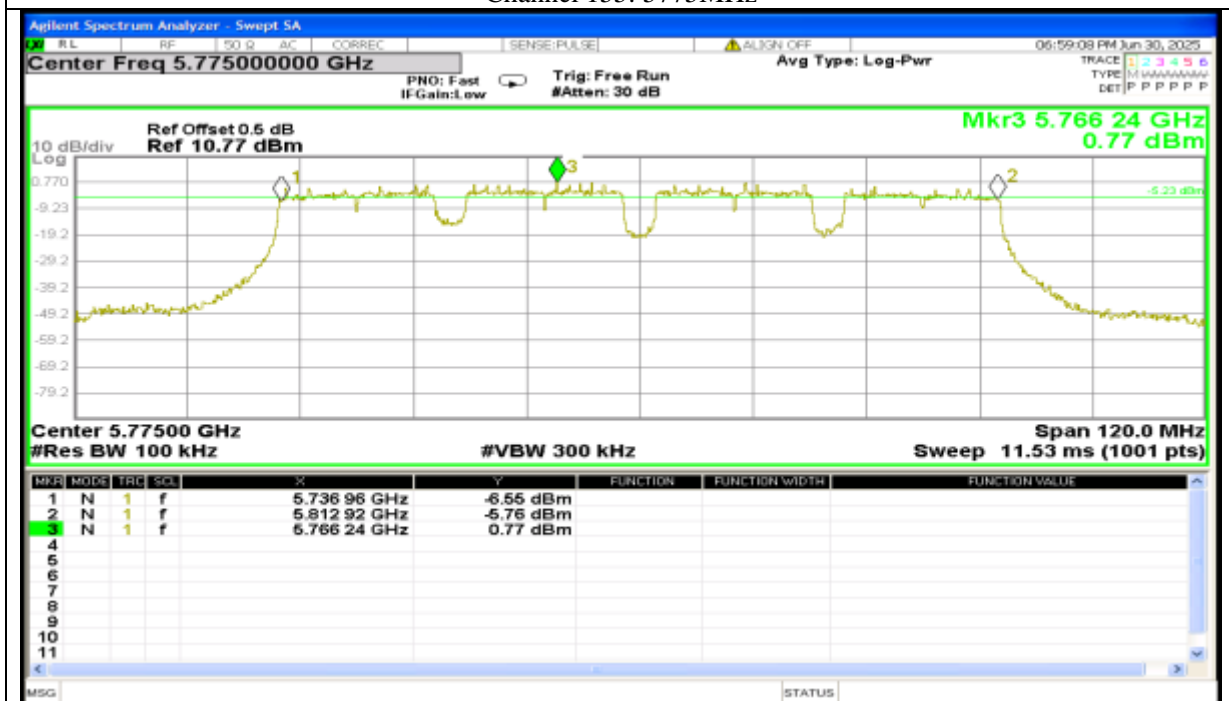
Report No.: AAEMT/RF/250609-02-01

Channel 159: 5795MHz



6dB BW 802.11ax80

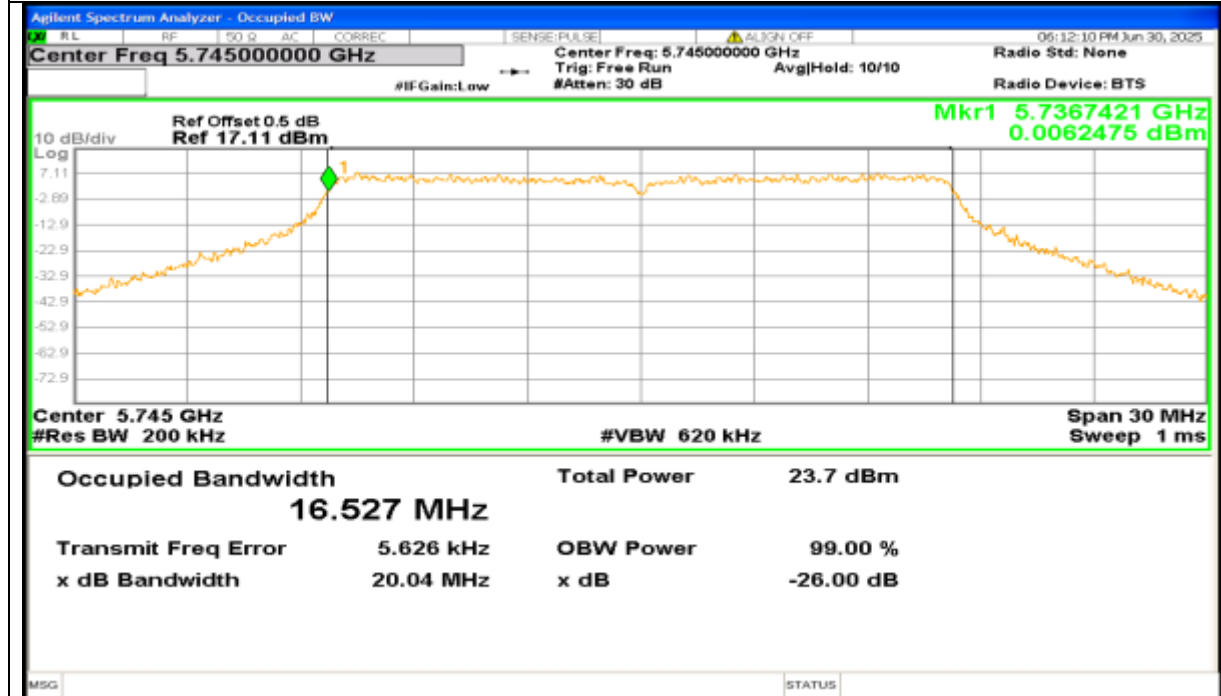
Channel 155: 5775MHz



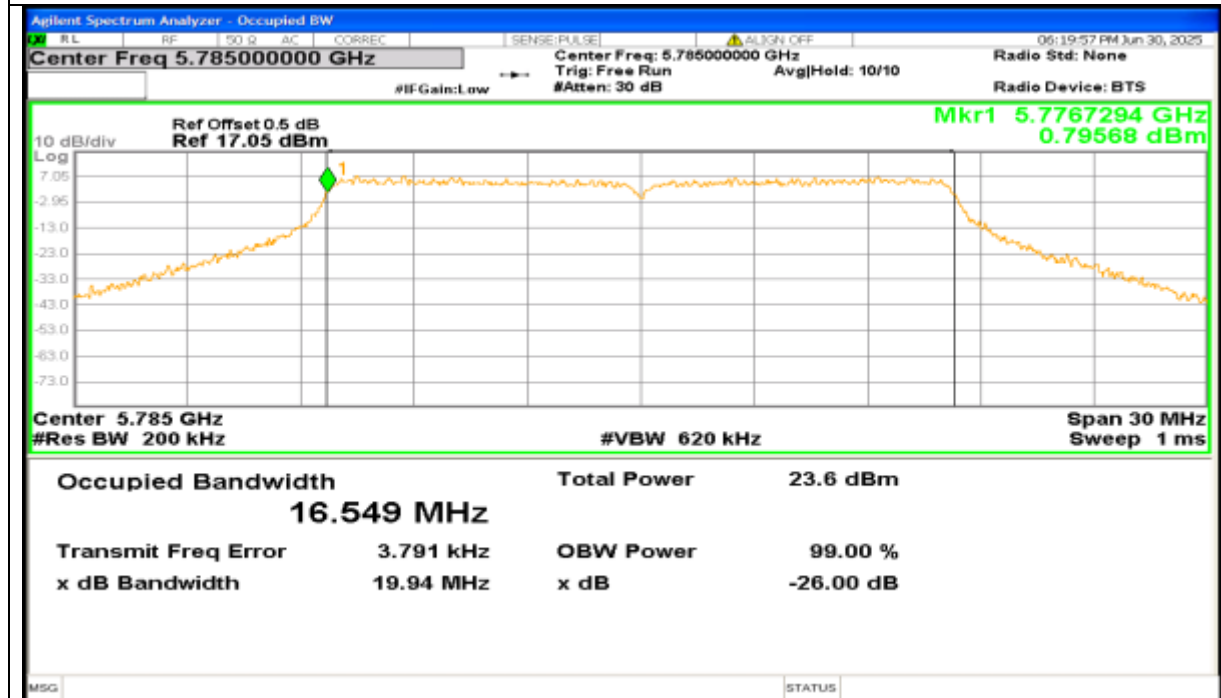
Report No.: AAEMT/RF/250609-02-01

99% OBW 802.11ax20

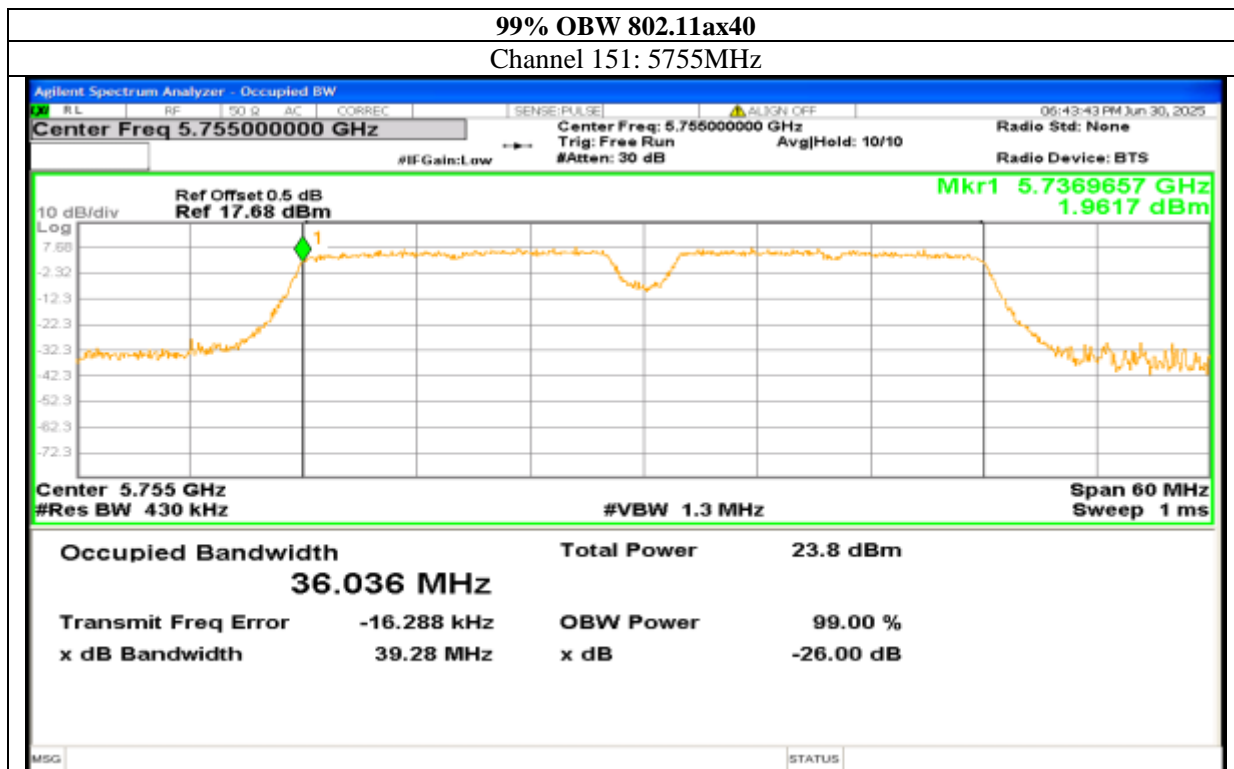
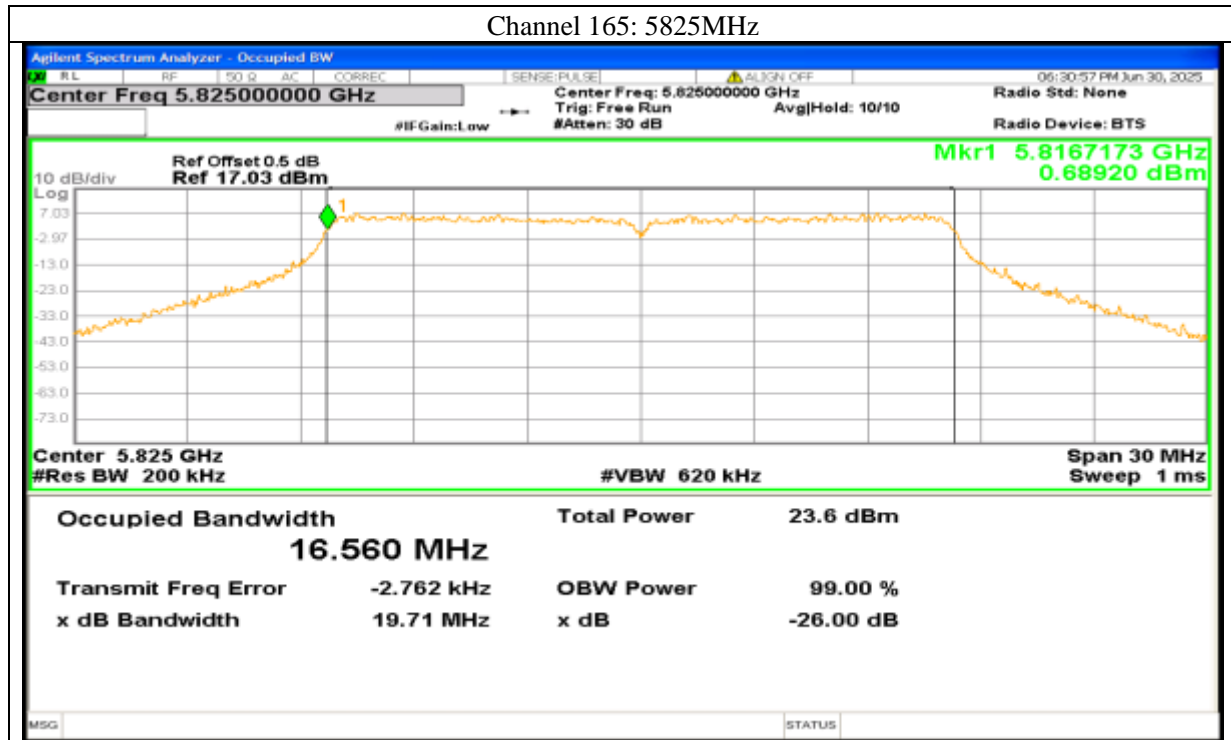
Channel 149: 5745MHz



Channel 157: 5785MHz

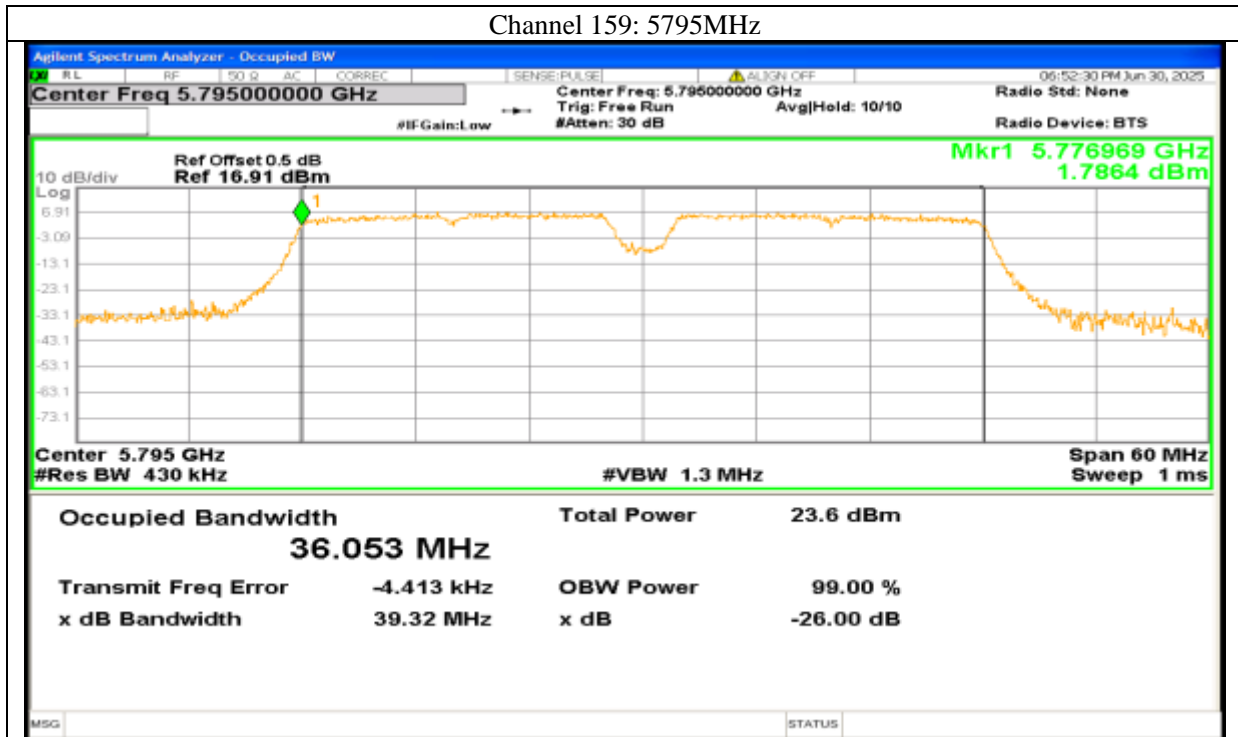


Report No.: AAEMT/RF/250609-02-01



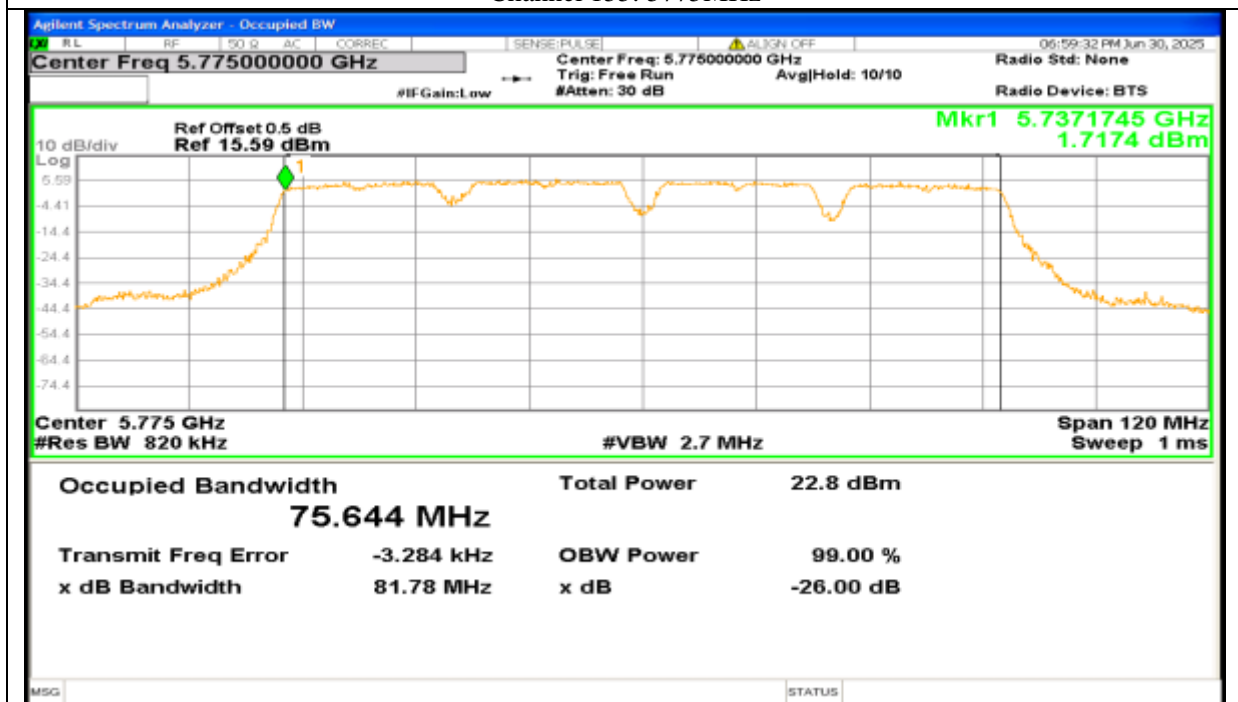
Report No.: AAEMT/RF/250609-02-01

Channel 159: 5795MHz



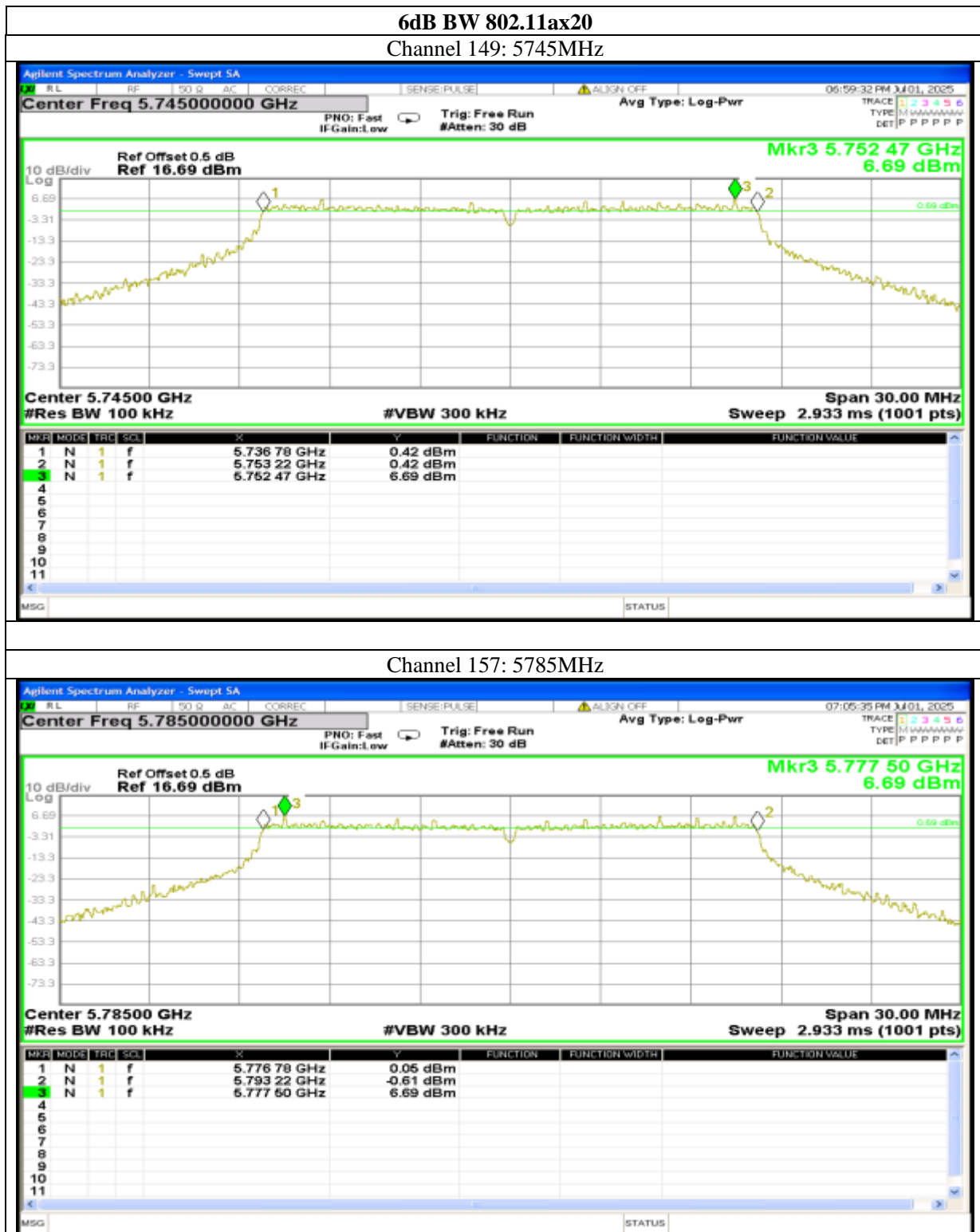
99% OBW 802.11ax80

Channel 155: 5775MHz

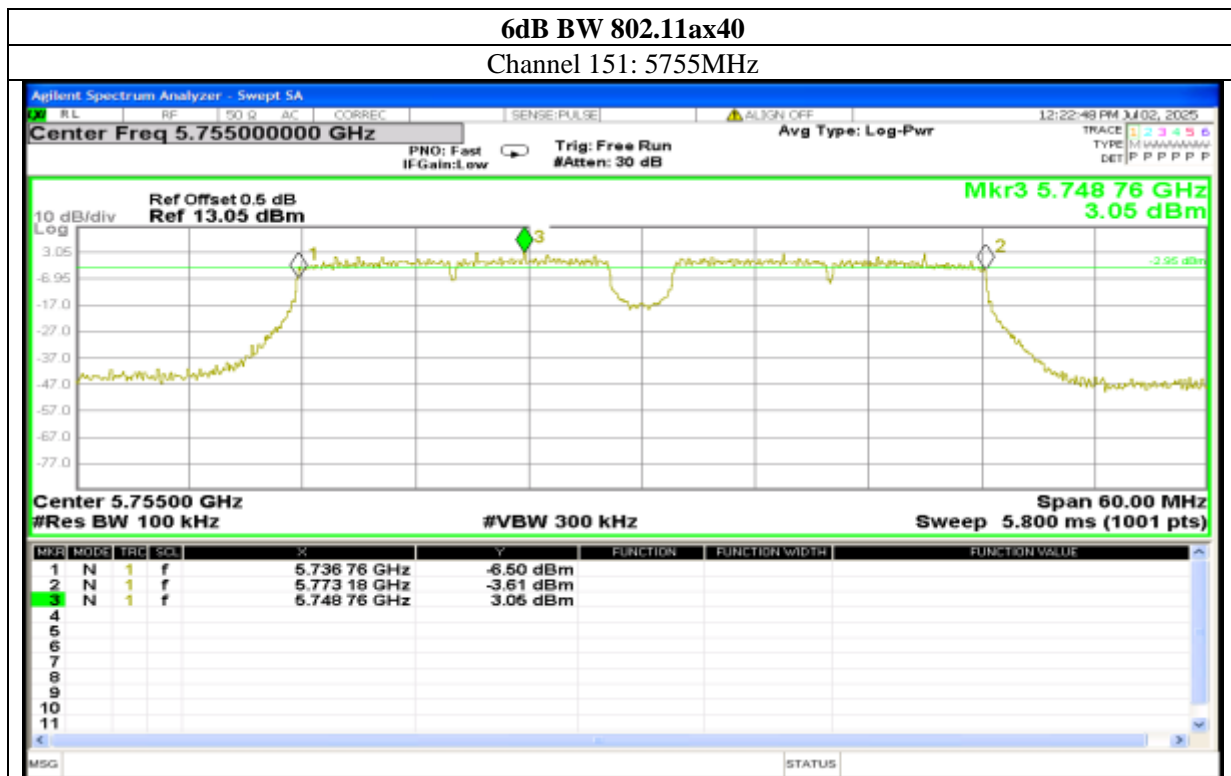
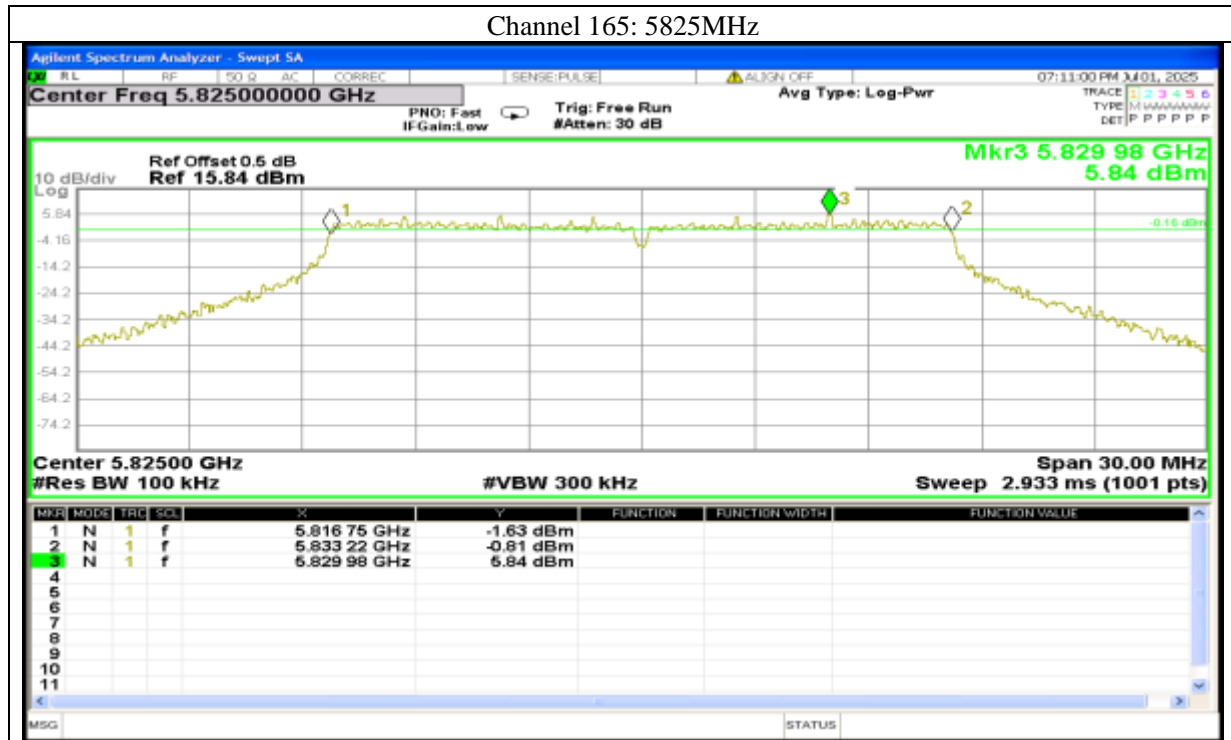


Report No.: AAEMT/RF/250609-02-01

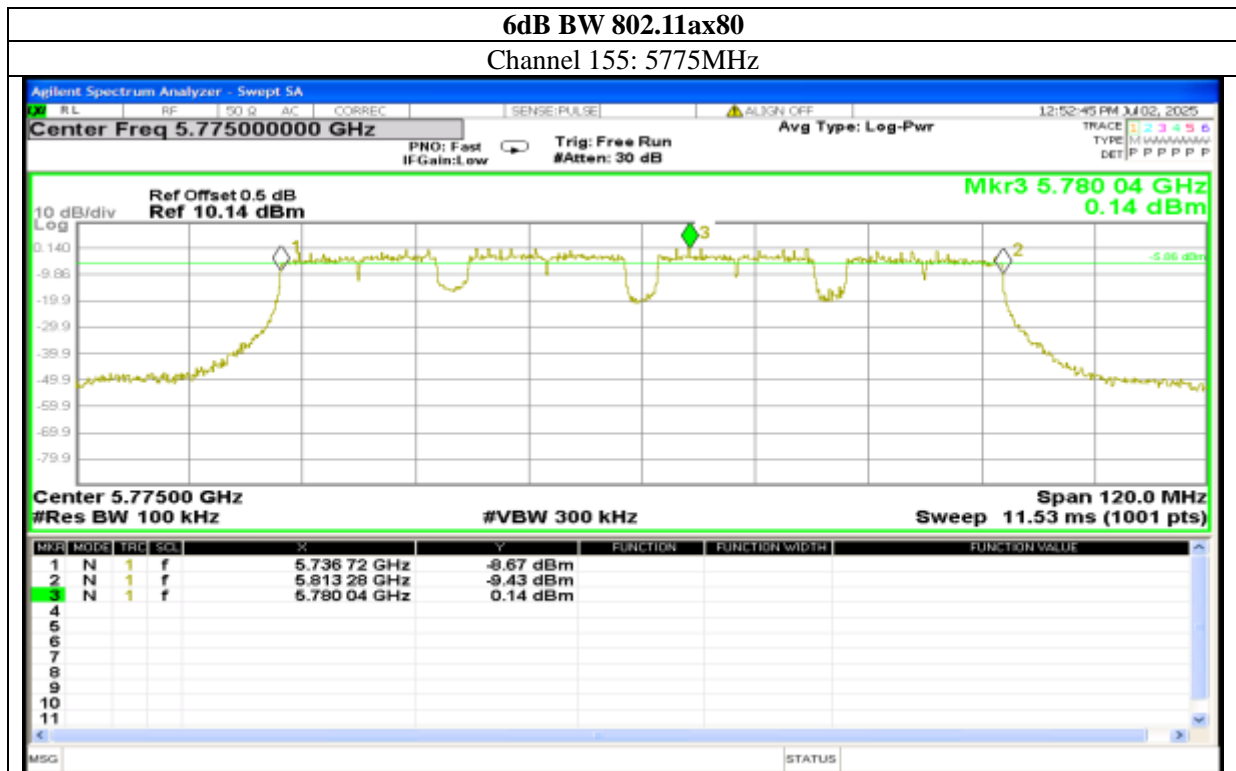
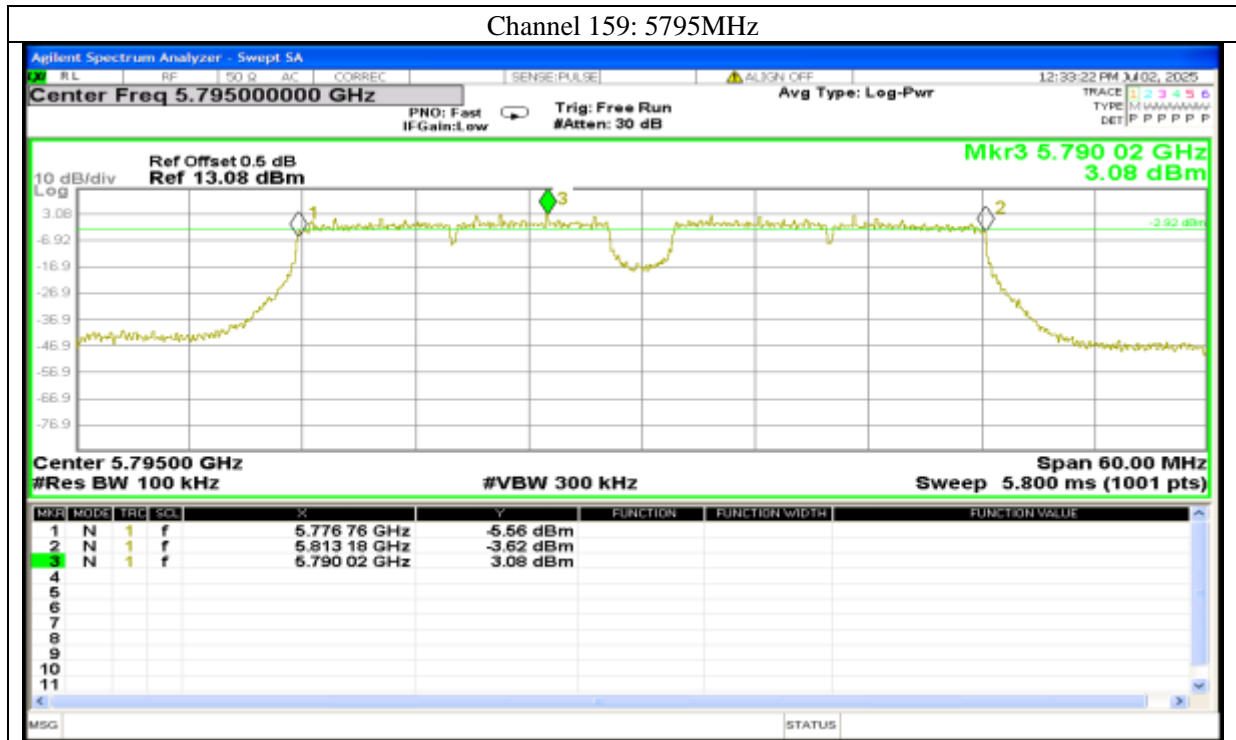
Antenna 1:



Report No.: AAEMT/RF/250609-02-01



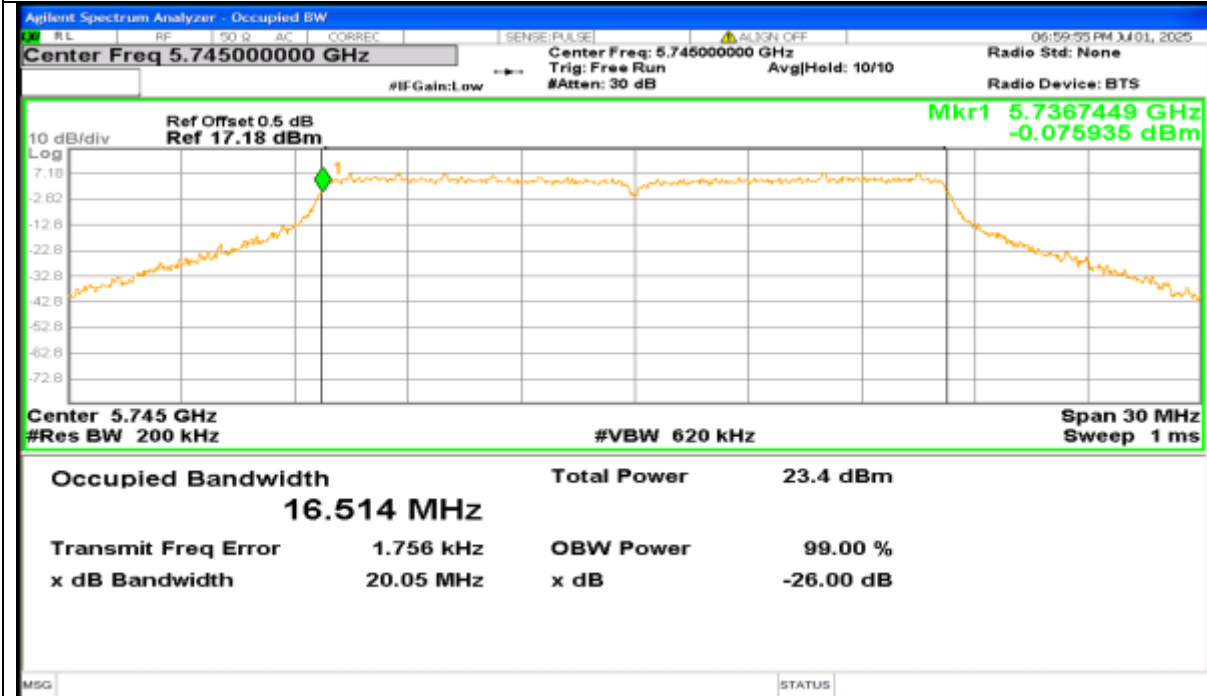
Report No.: AAEMT/RF/250609-02-01



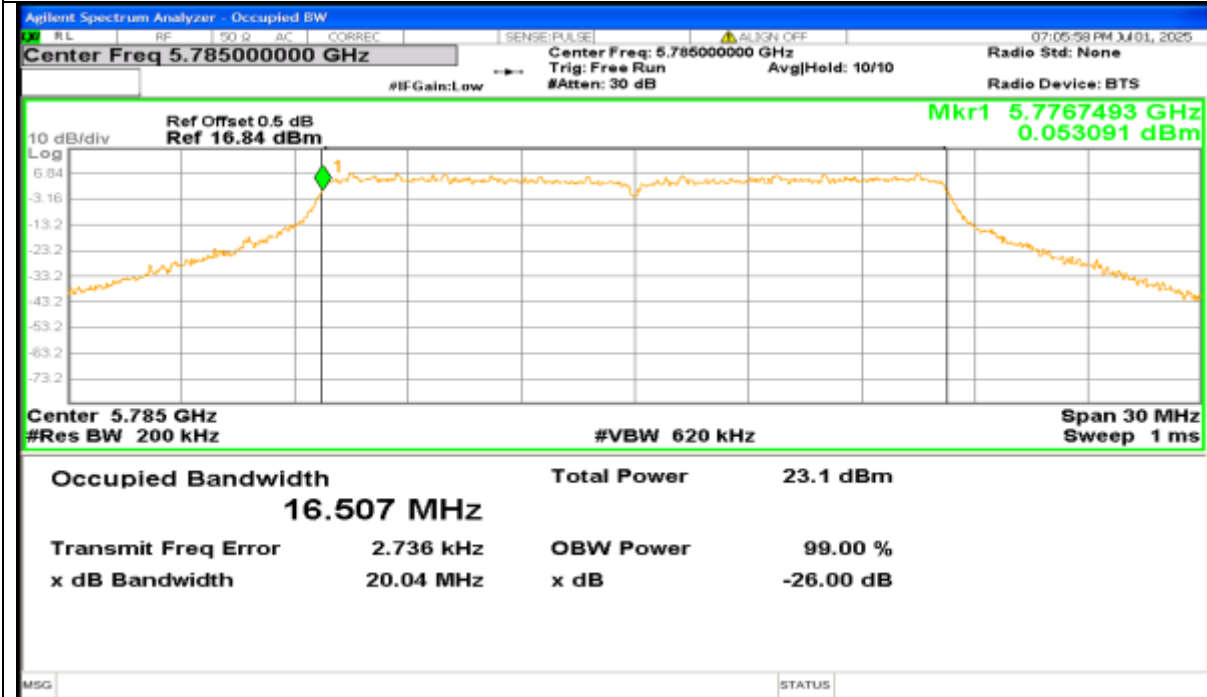
Report No.: AAEMT/RF/250609-02-01

99% OBW 802.11ax20

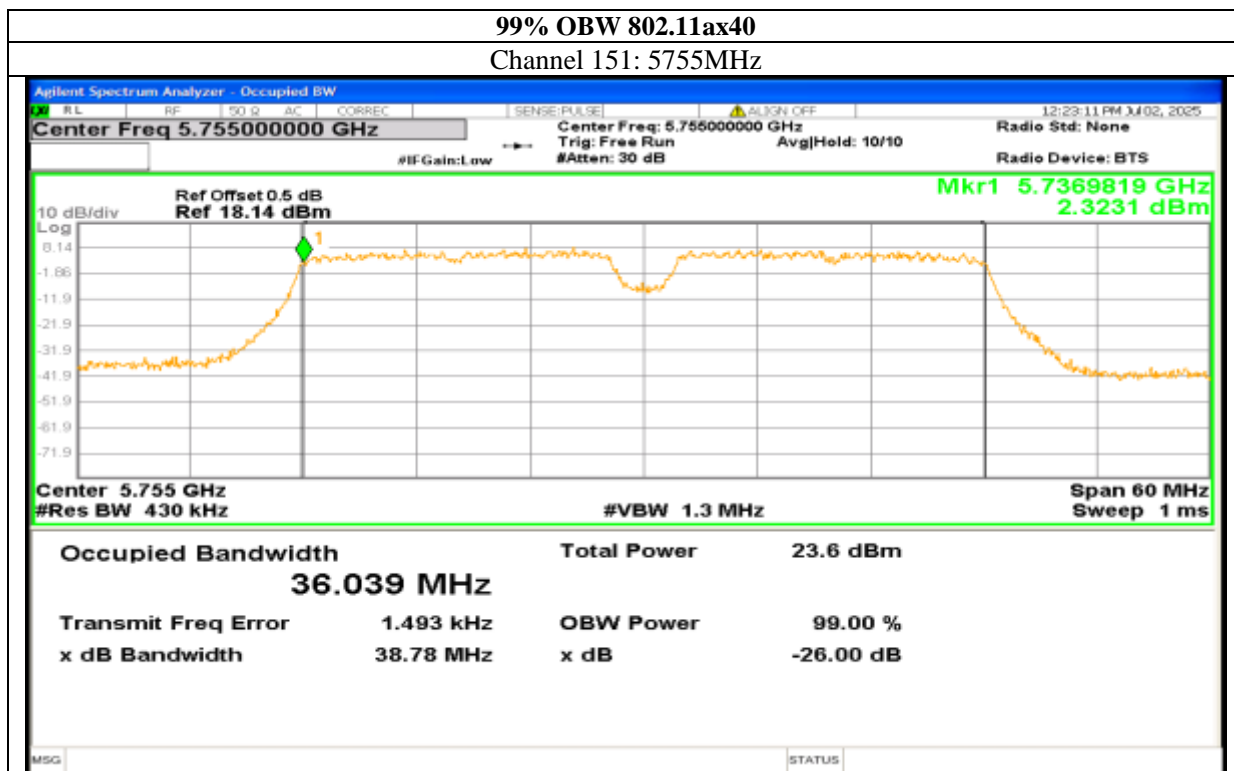
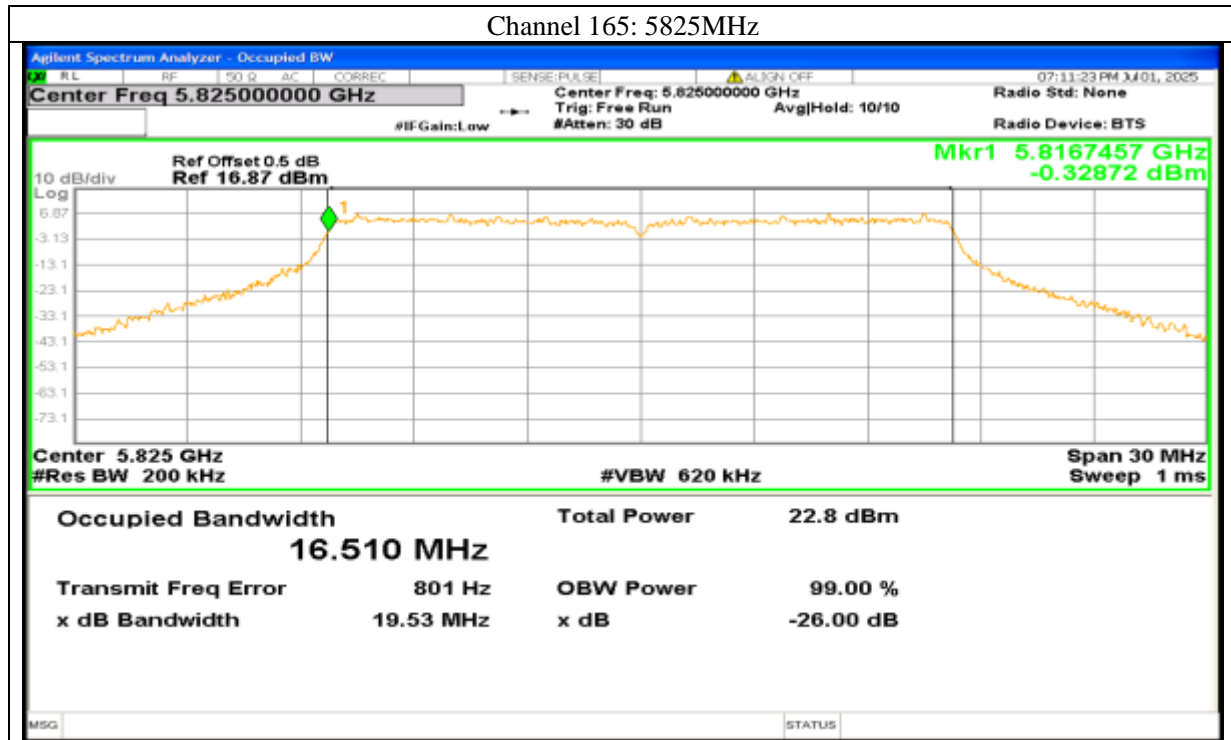
Channel 149: 5745MHz



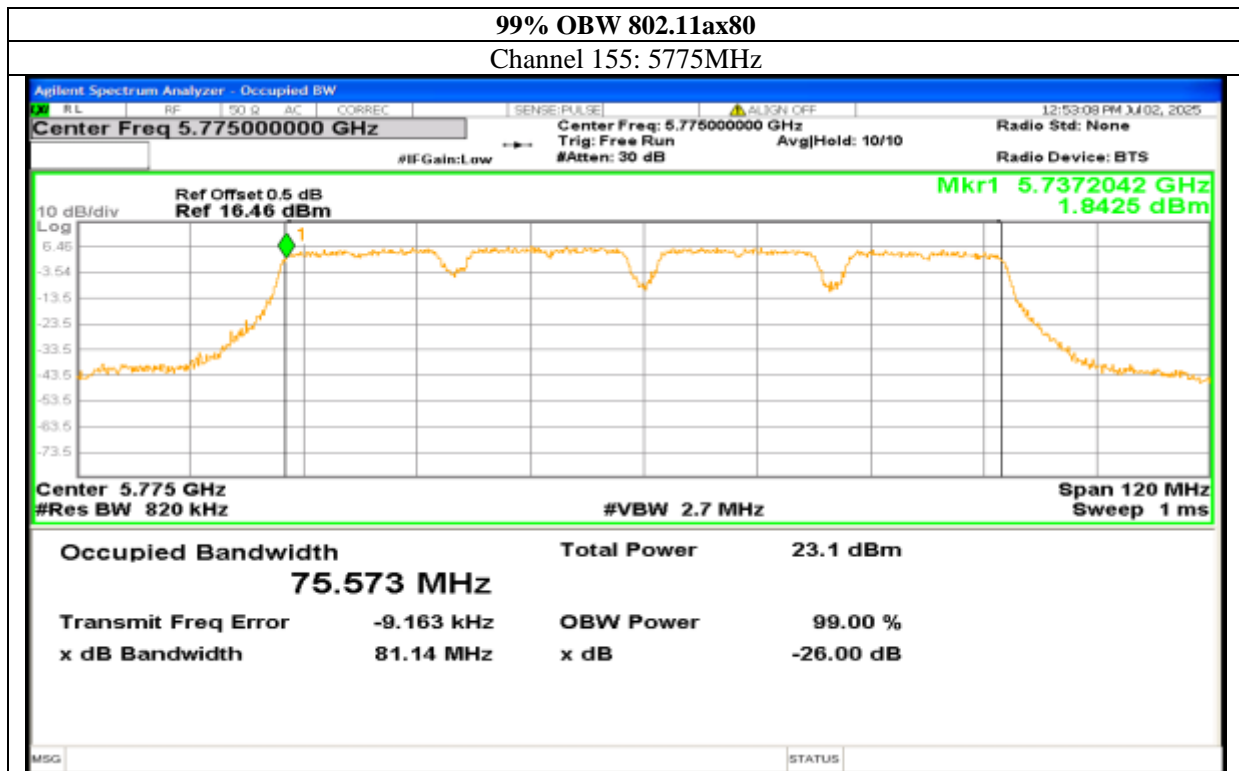
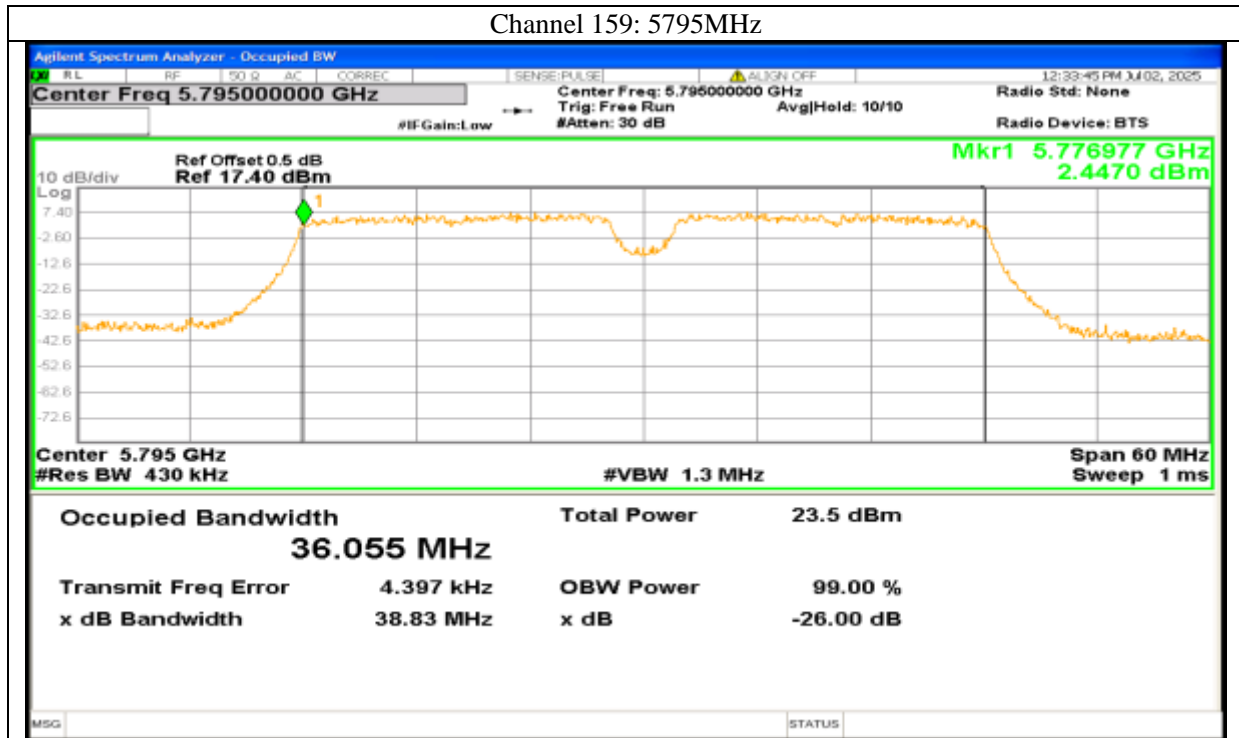
Channel 157: 5785MHz



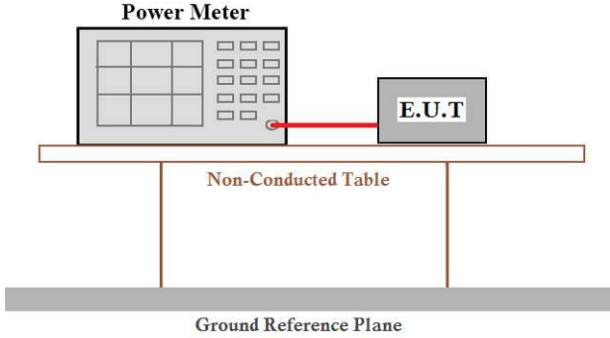
Report No.: AAEMT/RF/250609-02-01



Report No.: AAEMT/RF/250609-02-01



6. MAXIMUM CONDUCTED OUTPUT POWER

| | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 |
| Test Method: | KDB 789033 D02 General UNII Test Procedures New Rules v02r01 |
| Limit: | For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.745-5.850 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 30dBm |
| Test setup: |  |
| Test procedure: | <p style="text-align: center;">Measurement using an RF average power meter</p> <p>(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied</p> <p>a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.</p> <p>b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.</p> <p>c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.</p> <p>(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).</p> <p>(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.</p> <p>(iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10\log(1/0.25)$ if the duty cycle is 25 percent).</p> |
| Test Instruments: | Refer to section 3 for details |
| Test mode: | Refer to section 6 for details |

Report No.: AAEMT/RF/250609-02-01

6.1. TEST RESULT

Antenna 0:

| CH. No. | Frequency (MHz) | Output Power (dBm) | Limit(dBm) | Result |
|---------|-----------------|--------------------|------------|--------|
| | | 802.11ax (VHT20) | | |
| 149 | 5745.00 | 24.96 | 30 | Pass |
| 157 | 5785.00 | 25.02 | 30 | Pass |
| 165 | 5825.00 | 24.99 | 30 | Pass |

| CH. No. | Frequency (MHz) | Output Power (dBm) | Limit(dBm) | Result |
|---------|-----------------|--------------------|------------|--------|
| | | 802.11ax (VHT40) | | |
| 151 | 5755.00 | 25.42 | 30 | Pass |
| 159 | 5795.00 | 25.27 | 30 | Pass |

| CH. No. | Frequency (MHz) | Output Power (dBm) | Limit(dBm) | Result |
|---------|-----------------|--------------------|------------|--------|
| | | 802.11ax (VHT80) | | |
| 155 | 5775.00 | 25.17 | 30 | Pass |

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Antenna 1:

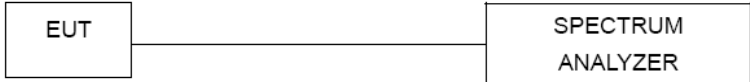
| CH. No. | Frequency (MHz) | Output Power (dBm) | Limit(dBm) | Result |
|---------|-----------------|--------------------|------------|--------|
| | | 802.11ax (VHT20) | | |
| 149 | 5745.00 | 25.36 | 30 | Pass |
| 157 | 5785.00 | 25.01 | 30 | Pass |
| 165 | 5825.00 | 24.81 | 30 | Pass |

| CH. No. | Frequency (MHz) | Output Power (dBm) | Limit(dBm) | Result |
|---------|-----------------|--------------------|------------|--------|
| | | 802.11ax (VHT40) | | |
| 151 | 5755.00 | 25.23 | 30 | Pass |
| 159 | 5795.00 | 25.12 | 30 | Pass |

| CH. No. | Frequency (MHz) | Output Power (dBm) | Limit(dBm) | Result |
|---------|-----------------|--------------------|------------|--------|
| | | 802.11ax (VHT80) | | |
| 155 | 5775.00 | 25.27 | 30 | Pass |

Report No.: AAEMT/RF/250609-02-01

7. Band Edges Measurement

| | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 E Section 15.407 and 5.205 |
| Test Method: | ANSI C63.10:2013 |
| Limit: | <p>Undesirable emission limits:</p> <p>(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 EIRP of -27 dBm/MHz.</p> <p>(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 EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.</p> <p>(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 EIRP of -27 dBm/MHz.</p> |
| Test Procedure: | <p>a. The Transmitter output of EUT was connected to the spectrum analyzer. Equipment mode: Spectrum analyzer Detector function: Peak mode SPAN: 100MHz RBW: 1 MHz VBW: 1 MHz Sweep time= Auto.</p> <p>b. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed.</p> <p>c. Find the next peak frequency outside the operation frequency band.</p> |
| Test setup: |  |
| Test results: | Pass |

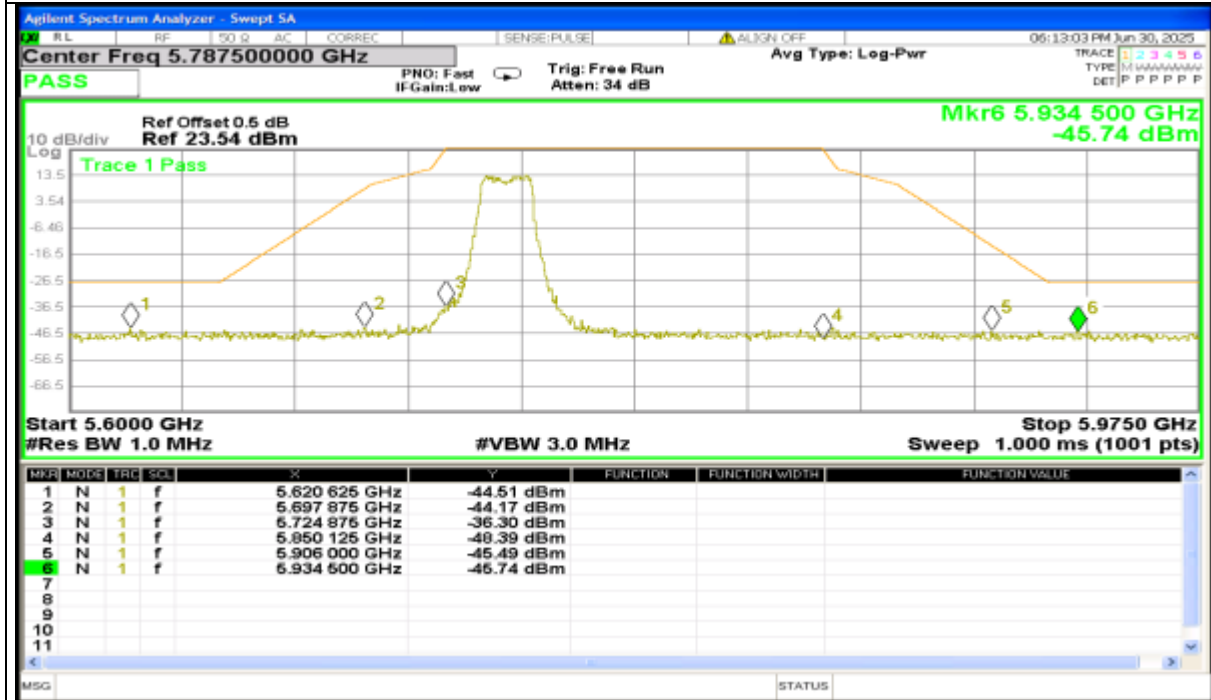
Report No.: AAEMT/RF/250609-02-01

7.1. TEST RESULT

Antenna 0:

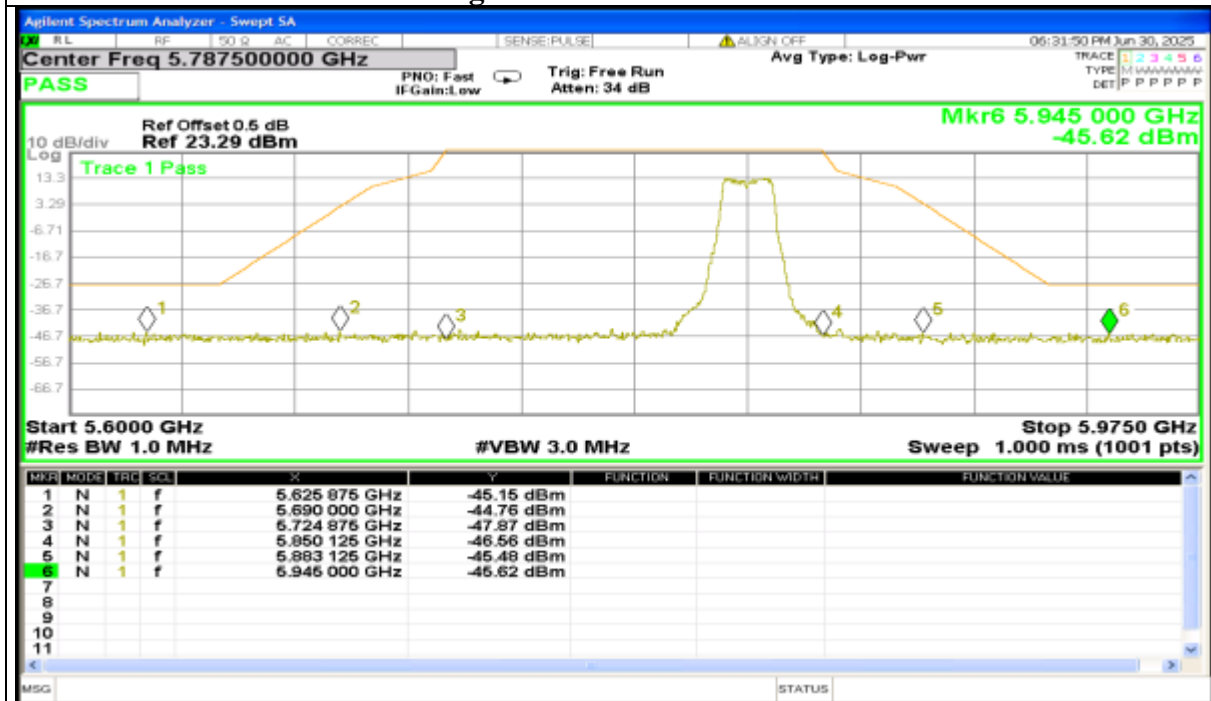
802.11ax(20M) (5.725GHz-5.85GHz)

The Low Channel 149: 5745MHz



802.11ax(20M) (5.725GHz-5.85GHz)

The High Channel 165: 5825MHz

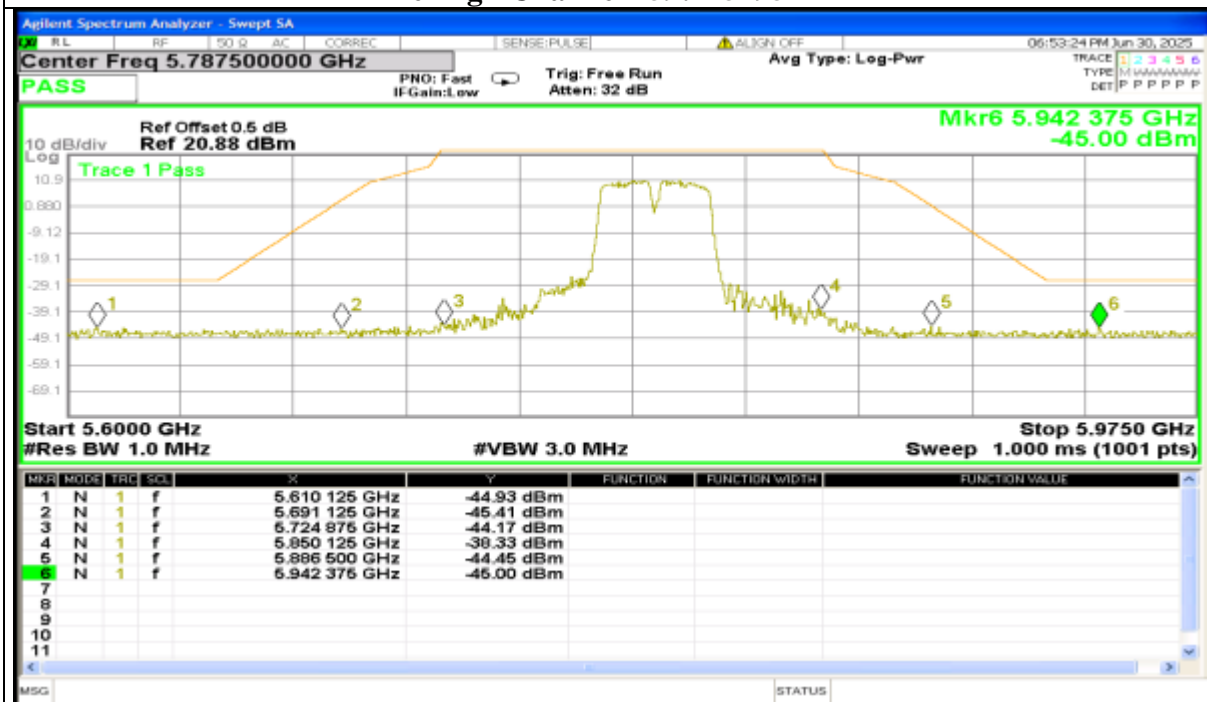


Report No.: AAEMT/RF/250609-02-01

802.11ax(40M) (5.725GHz-5.85GHz) The Lowest Channel 151: 5755MHz

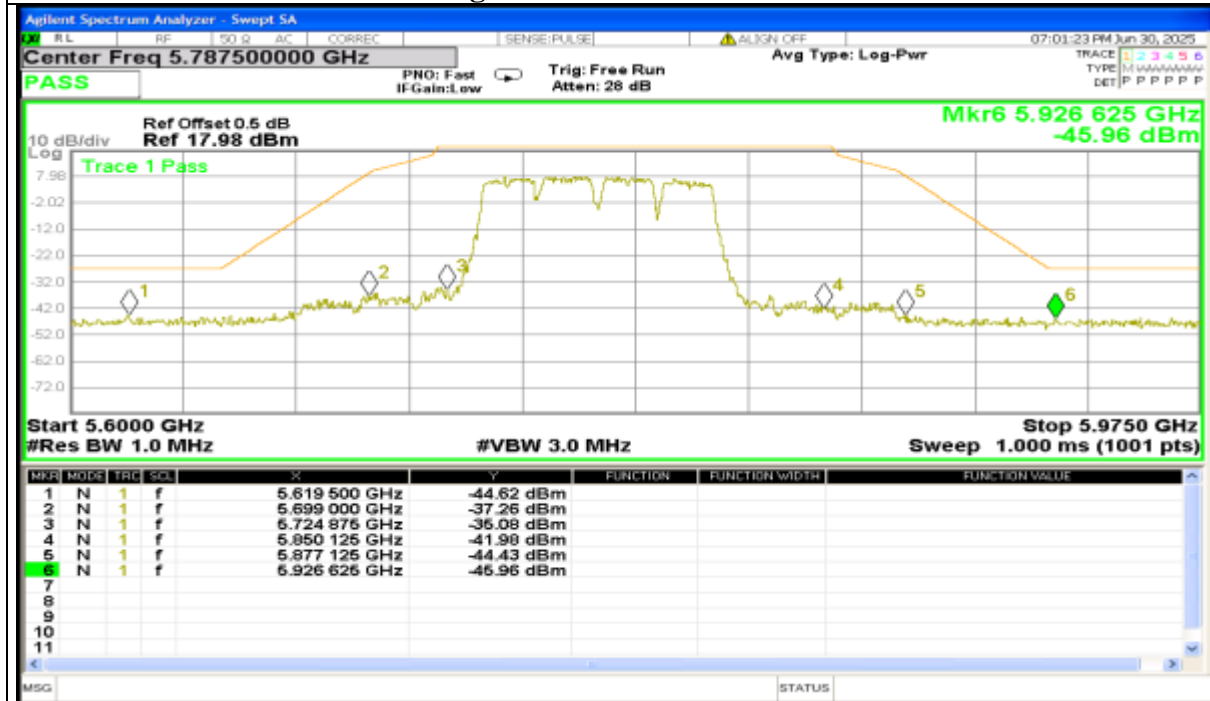


802.11ax(40M) (5.725GHz-5.85GHz) The High Channel 159: 5795MHz



Report No.: AAEMT/RF/250609-02-01

802.11ax(80M) (5.725GHz-5.85GHz) The High Channel 155: 5775MHz



Report No.: AAEMT/RF/250609-02-01

Antenna 1:

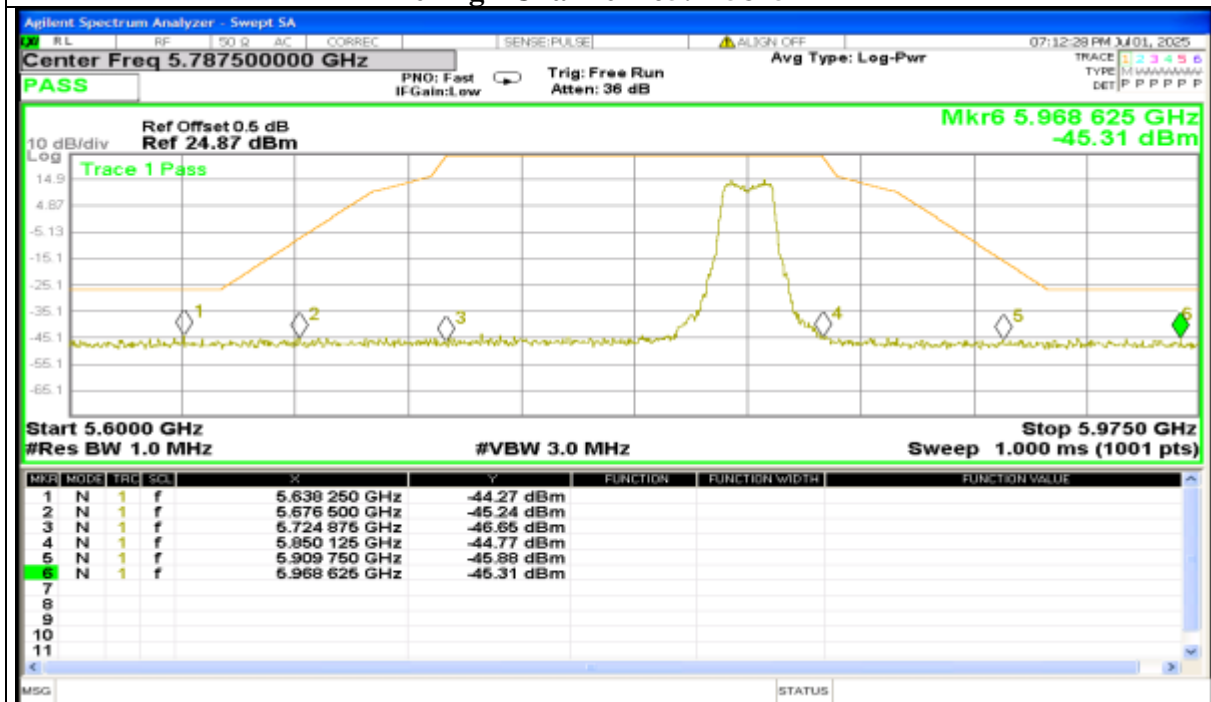
802.11ax(20M) (5.725GHz-5.85GHz)

The Low Channel 149: 5745MHz



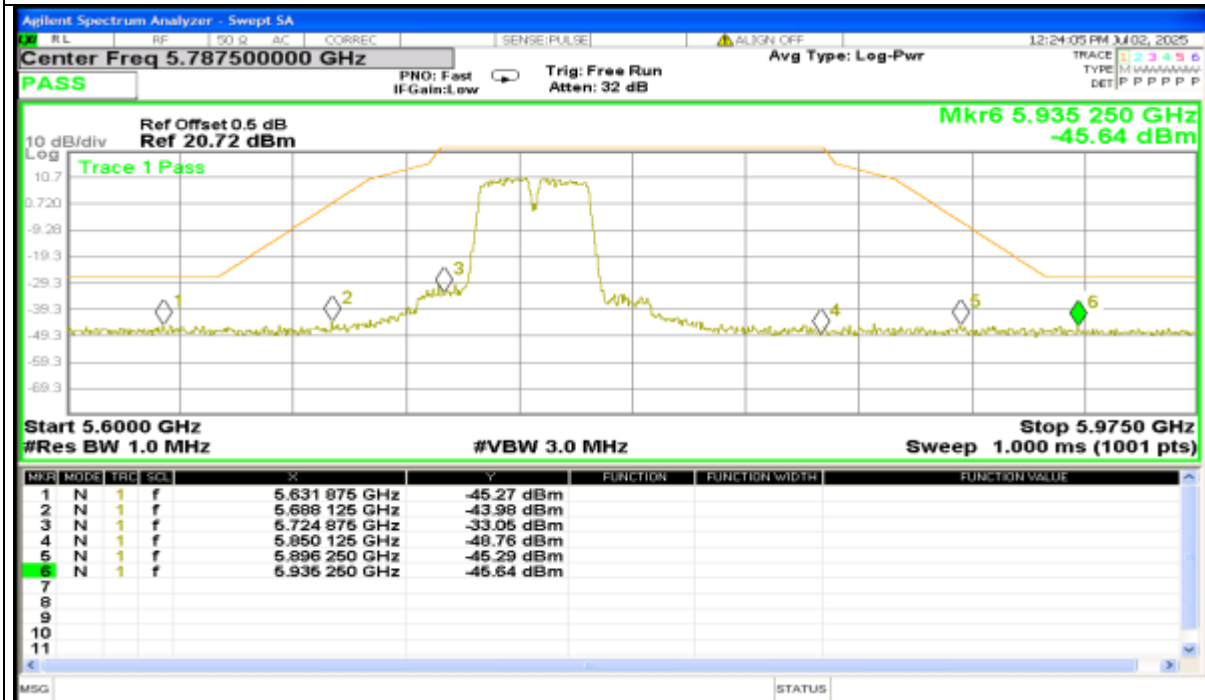
802.11ax(20M) (5.725GHz-5.85GHz)

The High Channel 165: 5825MHz

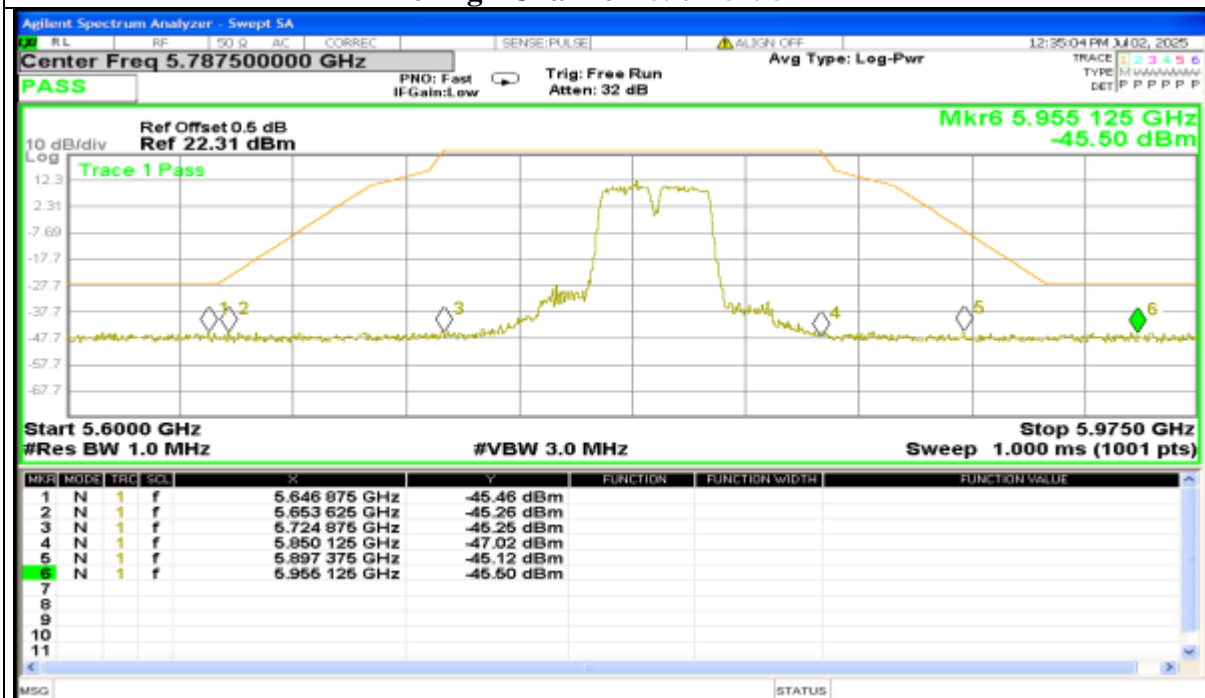


Report No.: AAEMT/RF/250609-02-01

802.11ax(40M) (5.725GHz-5.85GHz) The Lowest Channel 151: 5755MHz

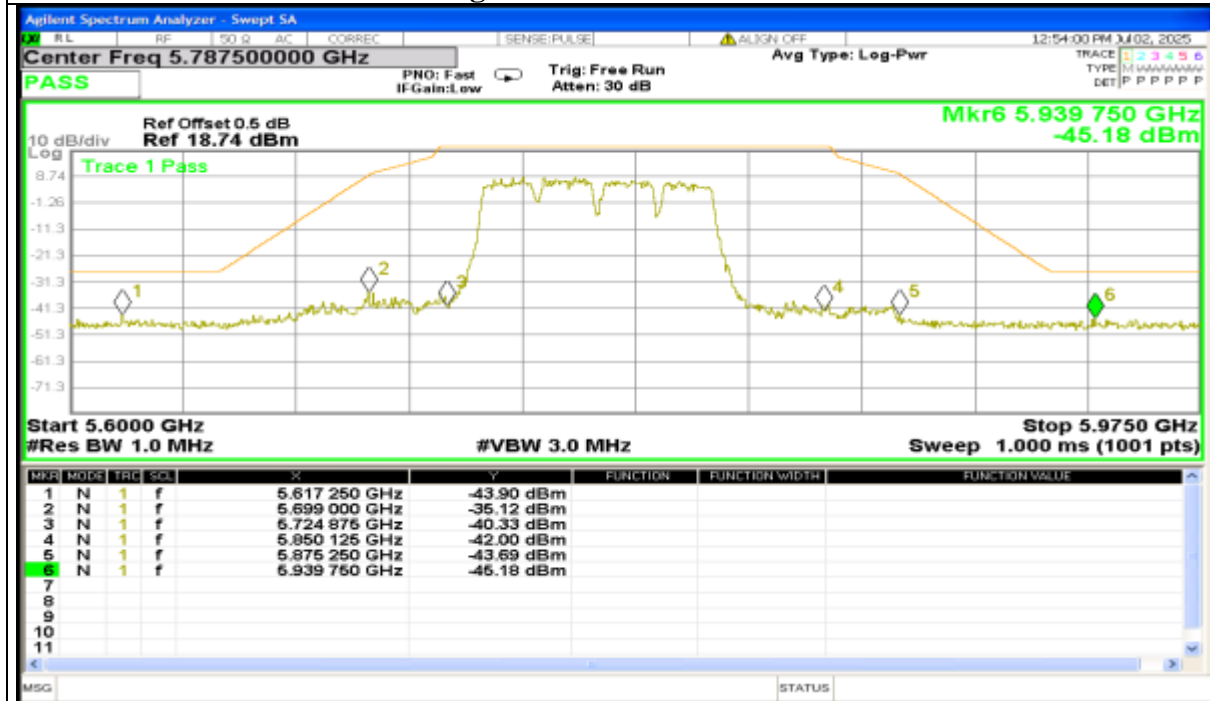


802.11ax(40M) (5.725GHz-5.85GHz) The High Channel 159: 5795MHz



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802.11ax(80M) (5.725GHz-5.85GHz)
The High Channel 155: 5775MHz

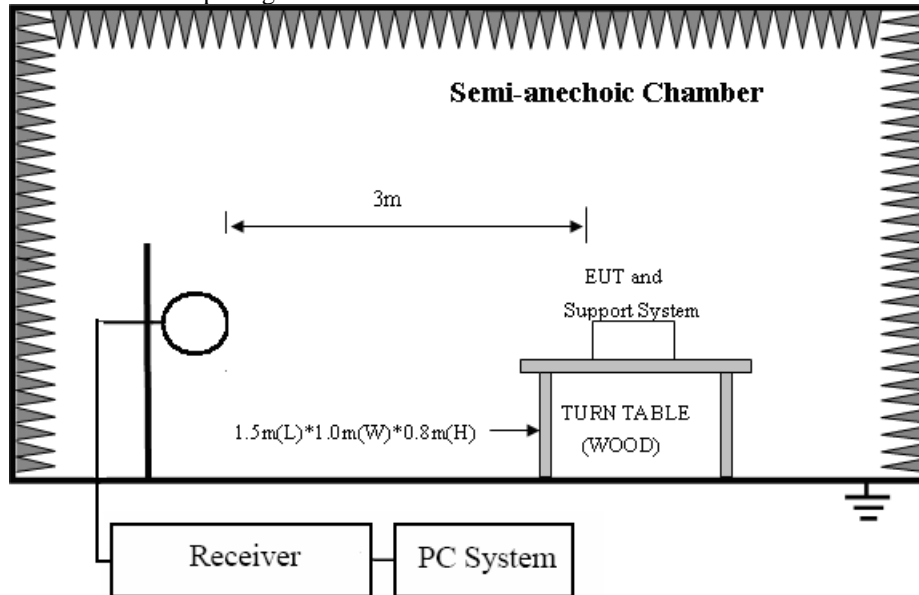


Report No.: AAEMT/RF/250609-02-01

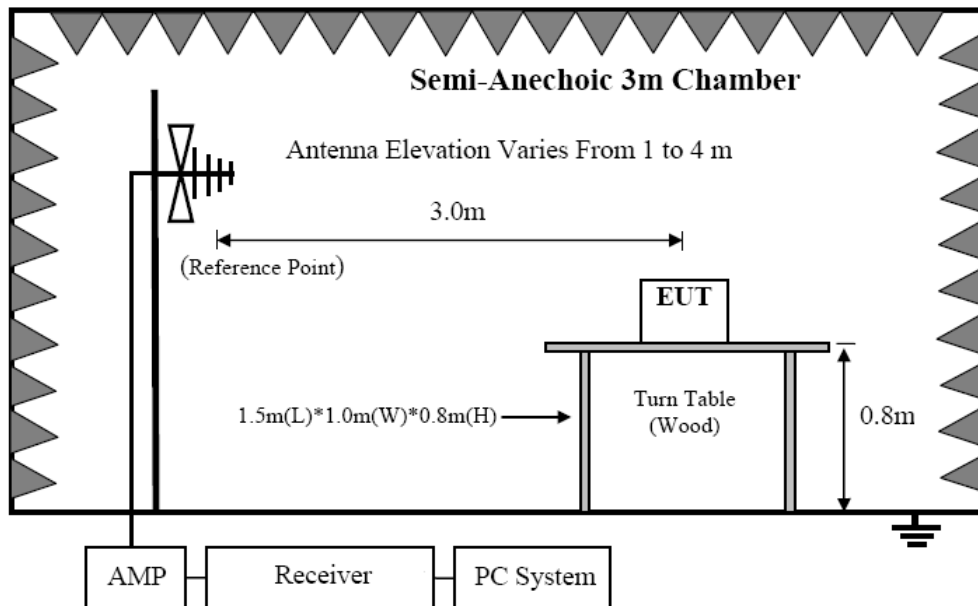
8. RADIATED EMISSION MEASUREMENT

8.1. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz

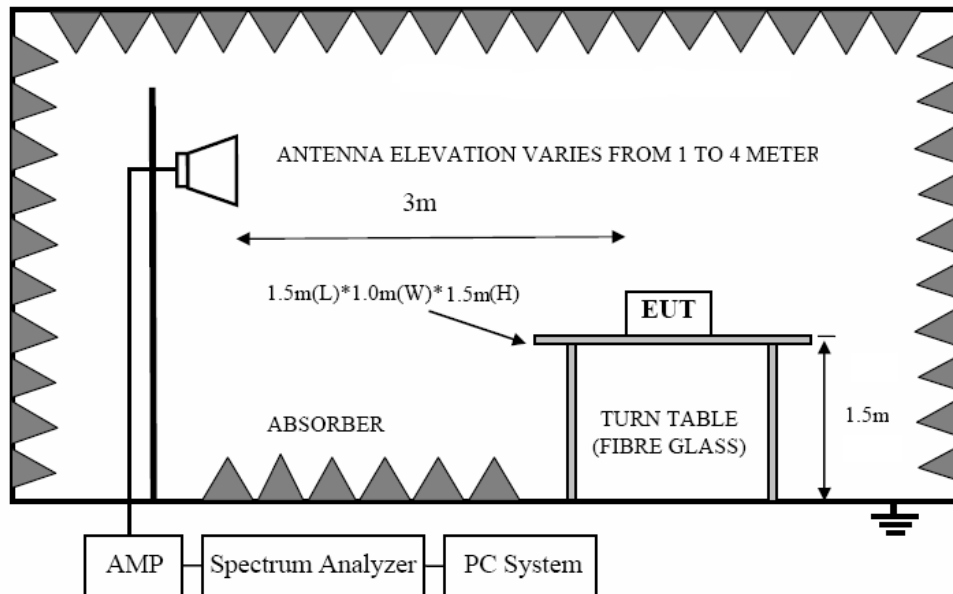


In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz



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In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

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8.2. Limit

9.3.1 FCC 15.205 Restricted frequency band

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

9.3.2. FCC 15.209 Limit.

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|-------------------------------------------------|---------------|
| | | μV/m | dB(μV)/m |
| 0.009 ~ 0.490 | 300 | 2400/F(KHz) | 67.6-20log(F) |
| 0.490 ~ 1.705 | 30 | 24000/F(KHz) | 87.6-20log(F) |
| 1.705 ~ 30.0 | 30 | 30 | 29.54 |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average) | |

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR

QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz.

Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m)$$

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9.3.3. Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 30dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and assistant system according clause 2.4 and 7.2
- (3) Test antenna was located 3m(except 18GHz-40GHz was 1m) from the EUT on an adjustable mast, and the antenna used as below table.

| Test frequency range | Test antenna used |
|----------------------|----------------------------------------|
| 9KHz-30MHz | Active Loop antenna |
| 30MHz-1GHz | Bilog Broadband Antenna |
| 1GHz-18GHz | Double Ridged Horn Antenna(1GHz-18GHz) |
| 18GHz-40GHz | Horn Antenna(18GHz-40GHz) |

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:
 - (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
 - (b) Change work frequency or channel of device if practicable.
 - (c) Change modulation type of device if practicable.
 - (d) new battery is used during testing
 - (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

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Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

- (5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (6) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz, 110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (7) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

| Frequency band | RBW |
|----------------|--------|
| 9KHz-150KHz | 200Hz |
| 150KHz-30MHz | 9KHz |
| 30MHz-1GHz | 120KHz |

- (8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure(according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure). Peak detector is used for Peak and AV measurement both.

According to KDB 789033 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$$

For example, if EIRP = -27dBm

$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$$

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8.4. Test result(Below 30MHz)

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | -- | Test Result: | Pass |
| Test Mode: | Keeping TX mode | Test By: | Aman |

| Freq. (MHz) | Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | State P/F |
|----------------|---------------------|-------------------|----------------|--------------|
| -- | -- | -- | -- | P |
| -- | -- | -- | -- | P |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Note: N/A

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TEST RESULTS (Between 30M – 1000 MHz)

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | Vertical | Test Result: | Pass |
| Standard: | (RE) FCC PART 15E | Test By: | Aman |
| Test Mode: | Keeping TX mode (5.745GHz) | | |

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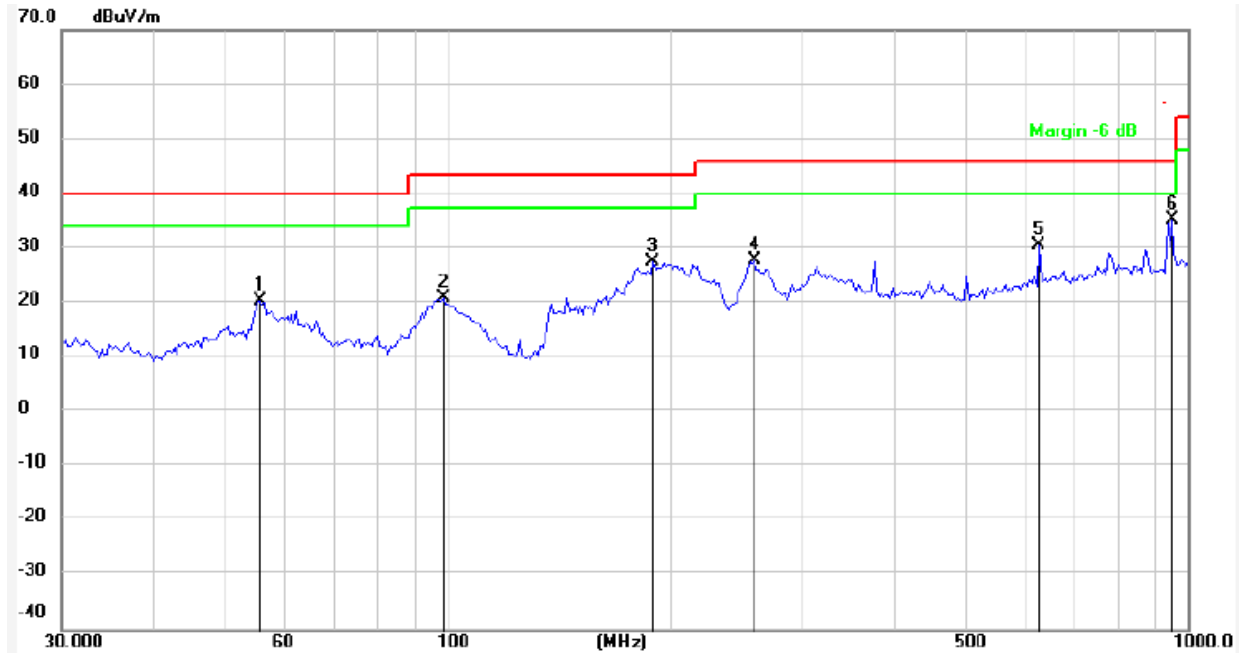
Test at Channel 149 (5.745 GHz) in transmitting status

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



| No. | Frequency (MHz) | Factor (dBμV/m) | Reading (dBμV) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|-----|-----------------|-----------------|----------------|----------------|----------------|-------------|----------|
| 1 | 55.6781 | -10.41 | 30.64 | 20.23 | 40.00 | -19.77 | QP |
| 2 | 98.3752 | -10.62 | 31.50 | 20.88 | 43.50 | -22.62 | QP |
| 3 | 189.1074 | -12.05 | 39.60 | 27.55 | 43.50 | -15.95 | QP |
| 4 | 259.4433 | -8.83 | 36.66 | 27.83 | 46.00 | -18.17 | QP |
| 5 | 628.8935 | -1.30 | 31.85 | 30.55 | 46.00 | -15.45 | QP |
| 6 | 952.0000 | 2.85 | 32.39 | 35.24 | 46.00 | -10.76 | QP |

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
- (3) Margin = Result - Limit

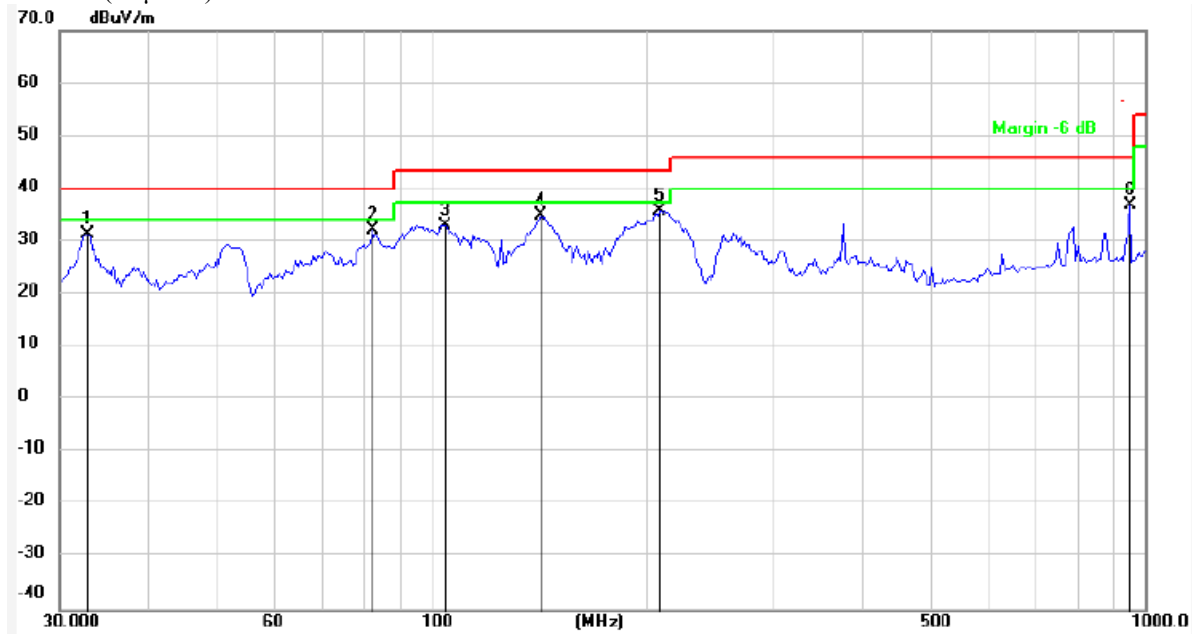
Report No.: AAEMT/RF/250609-02-01

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | Horizontal | Test Result: | Pass |
| Standard: | (RE)FCC PART 15E | Test By: | Aman |
| Test Mode: | Keeping TX mode (5.745GHz) | | |

Horizontal:

Peak scan

Level (dBμV/m)



| No. | Frequency (MHz) | Factor (dBμV/m) | Reading (dBμV) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|-----|-----------------|-----------------|----------------|----------------|----------------|-------------|----------|
| 1 | 32.8695 | -14.85 | 46.30 | 31.45 | 40.00 | -8.55 | QP |
| 2 | 82.5257 | -16.30 | 48.56 | 32.26 | 40.00 | -7.74 | QP |
| 3 | 104.0639 | -12.71 | 45.74 | 33.03 | 43.50 | -10.47 | QP |
| 4 | 141.7692 | -16.61 | 51.55 | 34.94 | 43.50 | -8.56 | QP |
| 5 | 208.6579 | -12.99 | 48.65 | 35.66 | 43.50 | -7.84 | QP |
| 6 | 952.0000 | 0.85 | 35.89 | 36.74 | 46.00 | -9.26 | QP |

The test result is calculated as the following:

(4) Result = Reading + Correct Factor

(5) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(6) Margin = Result – Limit

Report No.: AAEMT/RF/250609-02-01

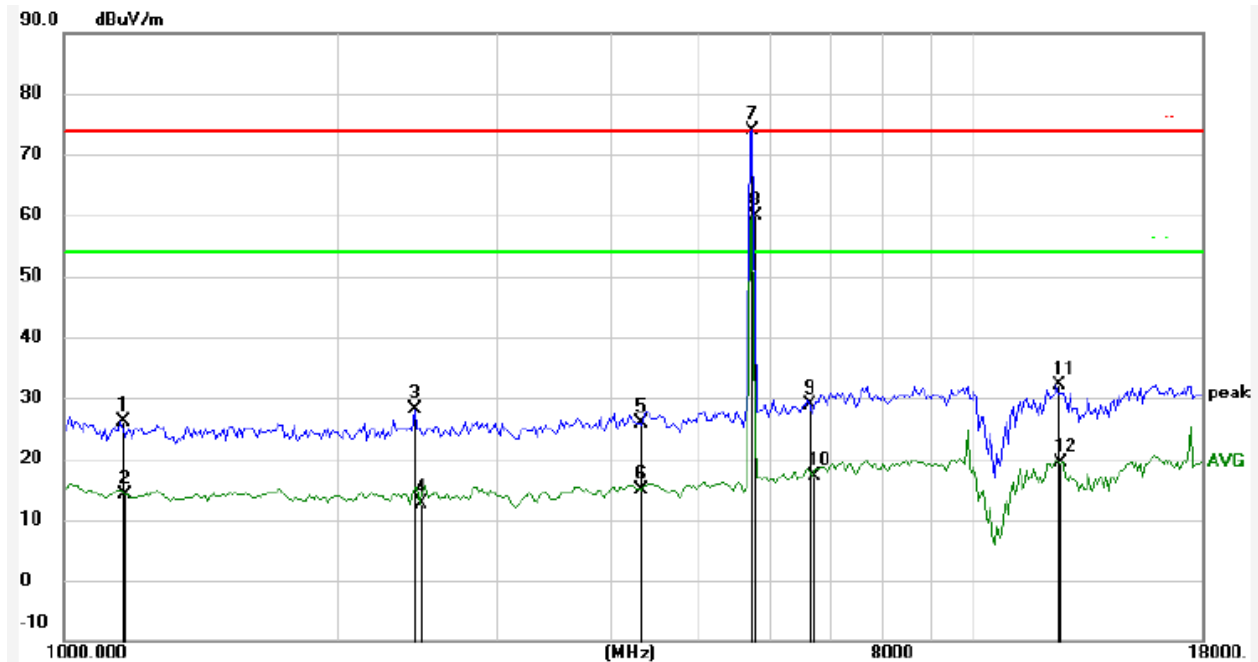
TEST RESULTS (Between 1000MHz – 18000 MHz)

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | Vertical | Test Result: | Pass |
| Standard: | (RE)FCC PART 15E | Test By: | Aman |
| Test Mode: | Keeping TX mode (5.745GHz) | | |

Report No.: AAEMT/RF/250609-02-01

Test at Channel 149 (5.745 GHz) in transmitting status

1000 MHz~18000 MHz Spurious Emissions. Peak Measurement



| No. | Frequency (MHz) | Factor (dBuV/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|-----------------|----------------|----------------|----------------|-------------|----------|
| 1 | 1155.818 | -23.23 | 49.30 | 26.07 | 74.00 | -47.93 | peak |
| 2 | 1169.285 | -23.19 | 37.40 | 14.21 | 54.00 | -39.79 | AVG |
| 3 | 2440.050 | -21.33 | 49.55 | 28.22 | 74.00 | -45.78 | peak |
| 4 | 2468.482 | -21.28 | 34.02 | 12.74 | 54.00 | -41.26 | AVG |
| 5 | 4304.525 | -18.56 | 44.50 | 25.94 | 74.00 | -48.06 | peak |
| 6 | 4329.530 | -18.54 | 33.51 | 14.97 | 54.00 | -39.03 | AVG |
| 7 | 5745.000 | -16.77 | 90.77 | 74.00 | 74.00 | 0.00 | peak |
| 8 | 5750.479 | -16.76 | 76.54 | 59.78 | 54.00 | 5.78 | AVG |
| 9 | 6646.506 | -15.16 | 44.14 | 28.98 | 74.00 | -45.02 | peak |
| 10 | 6685.117 | -15.15 | 32.18 | 17.03 | 54.00 | -36.97 | AVG |
| 11 | 12424.406 | -12.80 | 44.98 | 32.18 | 74.00 | -41.82 | peak |
| 12 | 12496.581 | -12.66 | 31.94 | 19.28 | 54.00 | -34.72 | AVG |

Note: Marker 7 is intentionally radiated frequency from the EUT, hence considered as PASS.

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
- Margin = Result – Limit

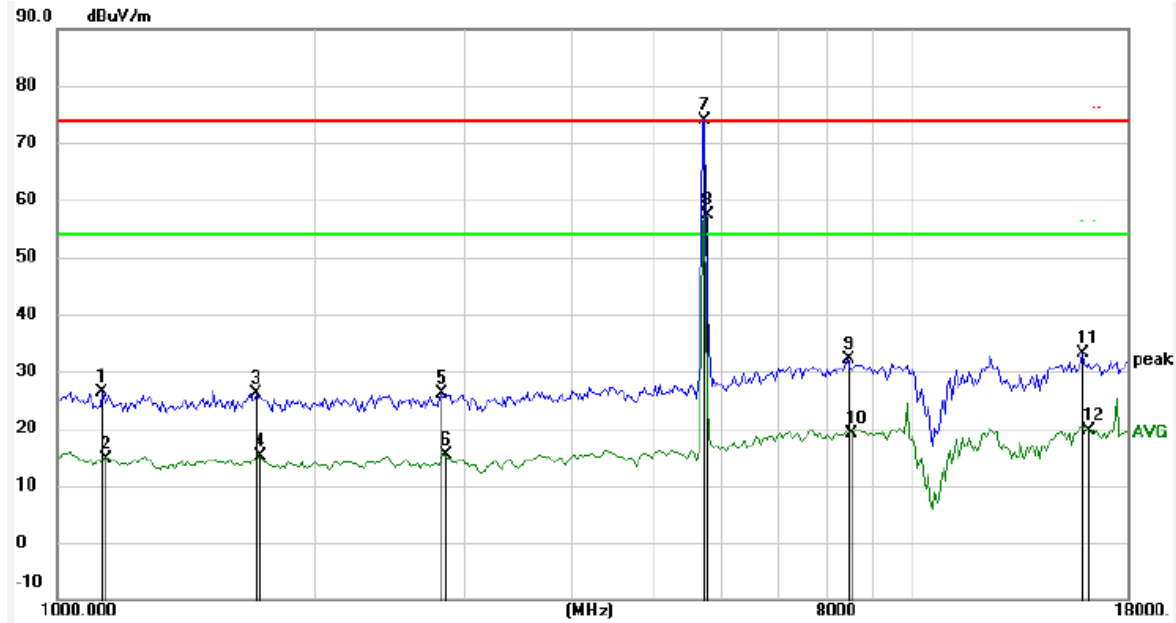
Report No.: AAEMT/RF/250609-02-01

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | Horizontal | Test Result: | Pass |
| Standard: | (RE)FCC PART 15E | Test By: | Aman |
| Test Mode: | Keeping TX mode (5.745GHz) | | |

Report No.: AAEMT/RF/250609-02-01

Test at Channel 149 (5.745 GHz) in transmitting status

1000 MHz~18000 MHz Spurious Emissions. Peak Measurement



| No. | Frequency (MHz) | Factor (dBuV/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|-----------------|----------------|----------------|----------------|-------------|----------|
| 1 | 1129.346 | 2.46 | 23.87 | 26.33 | 74.00 | -47.67 | peak |
| 2 | 1142.505 | 2.52 | 12.01 | 14.53 | 54.00 | -39.47 | AVG |
| 3 | 1713.754 | 3.64 | 22.58 | 26.22 | 74.00 | -47.78 | peak |
| 4 | 1733.723 | 3.68 | 11.52 | 15.20 | 54.00 | -38.80 | AVG |
| 5 | 2820.253 | 8.02 | 18.06 | 26.08 | 74.00 | -47.92 | peak |
| 6 | 2853.115 | 8.17 | 7.26 | 15.43 | 54.00 | -38.57 | AVG |
| 7 | 5745.000 | 16.85 | 57.15 | 74.00 | 74.00 | 0.00 | peak |
| 8 | 5750.479 | 16.87 | 40.47 | 57.34 | 54.00 | 3.34 | AVG |
| 9 | 8428.146 | 22.82 | 9.31 | 32.13 | 74.00 | -41.87 | peak |
| 10 | 8526.350 | 22.98 | -3.90 | 19.08 | 54.00 | -34.92 | AVG |
| 11 | 15938.425 | 26.16 | 7.02 | 33.18 | 74.00 | -40.82 | peak |
| 12 | 16217.807 | 26.43 | -6.77 | 19.66 | 54.00 | -34.34 | AVG |

Note: Marker 7 is intentionally radiated frequency from the EUT, hence considered as PASS.

The test result is calculated as the following:

(1) Result = Reading + Correct Factor

(2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

Margin = Result

Report No.: AAEMT/RF/250609-02-01

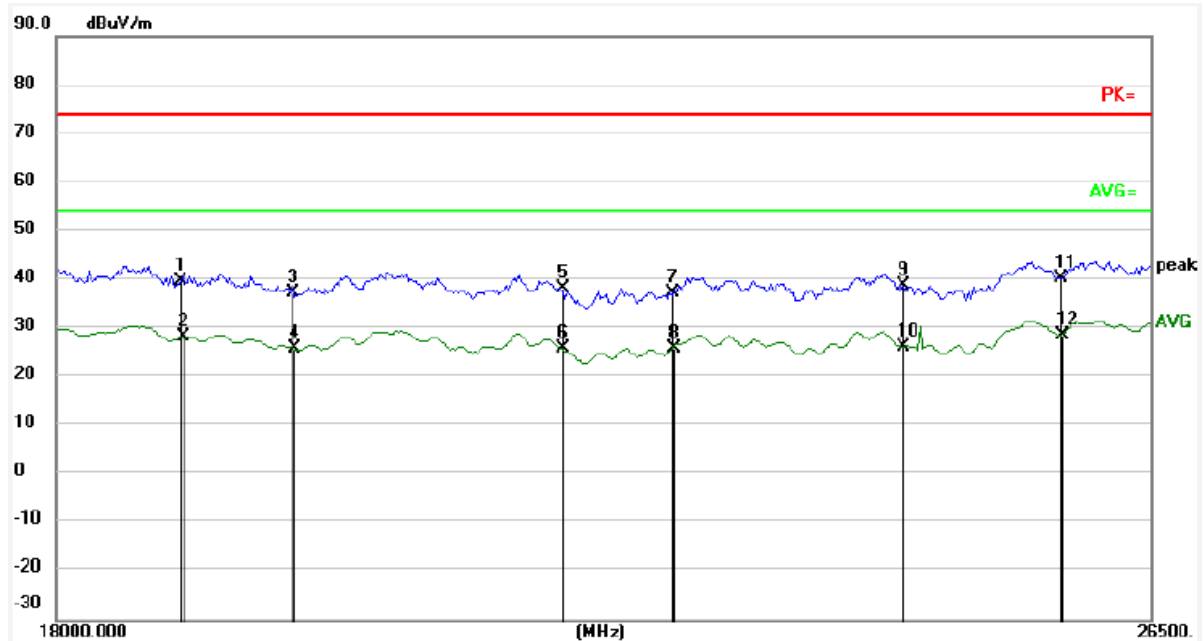
TEST RESULTS (Between 18000MHz – 26500 MHz)

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | Vertical | Test Result: | Pass |
| Standard: | (RE)FCC PART 15E | Test By: | Aman |
| Test Mode: | Keeping TX mode (5.745GHz) | | |

Report No.: AAEMT/RF/250609-02-01

Test at Channel 149 (5.745 GHz) in transmitting status

18000 MHz~26500 MHz Spurious Emissions. Peak Measurement



| No. | Frequency (MHz) | Factor (dBuV/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|-----------------|----------------|----------------|----------------|-------------|----------|
| 1 | 18813.077 | -0.23 | 39.91 | 39.68 | 74.00 | -34.32 | peak |
| 2 | 18827.665 | -0.22 | 28.58 | 28.36 | 54.00 | -25.64 | AVG |
| 3 | 19556.487 | 0.10 | 37.17 | 37.27 | 74.00 | -36.73 | peak |
| 4 | 19571.651 | 0.10 | 25.80 | 25.90 | 54.00 | -28.10 | AVG |
| 5 | 21512.709 | 0.74 | 37.49 | 38.23 | 74.00 | -35.77 | peak |
| 6 | 21512.709 | 0.74 | 25.07 | 25.81 | 54.00 | -28.19 | AVG |
| 7 | 22362.796 | 1.14 | 36.30 | 37.44 | 74.00 | -36.56 | peak |
| 8 | 22380.136 | 1.15 | 24.80 | 25.95 | 54.00 | -28.05 | AVG |
| 9 | 24277.715 | 1.83 | 37.11 | 38.94 | 74.00 | -35.06 | peak |
| 10 | 24277.715 | 1.83 | 24.54 | 26.37 | 54.00 | -27.63 | AVG |
| 11 | 25651.209 | 2.21 | 38.01 | 40.22 | 74.00 | -33.78 | peak |
| 12 | 25671.099 | 2.21 | 26.48 | 28.69 | 54.00 | -25.31 | AVG |

The test result is calculated as the following:

(3) Result = Reading + Correct Factor

(4) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

Margin = Result – Limit

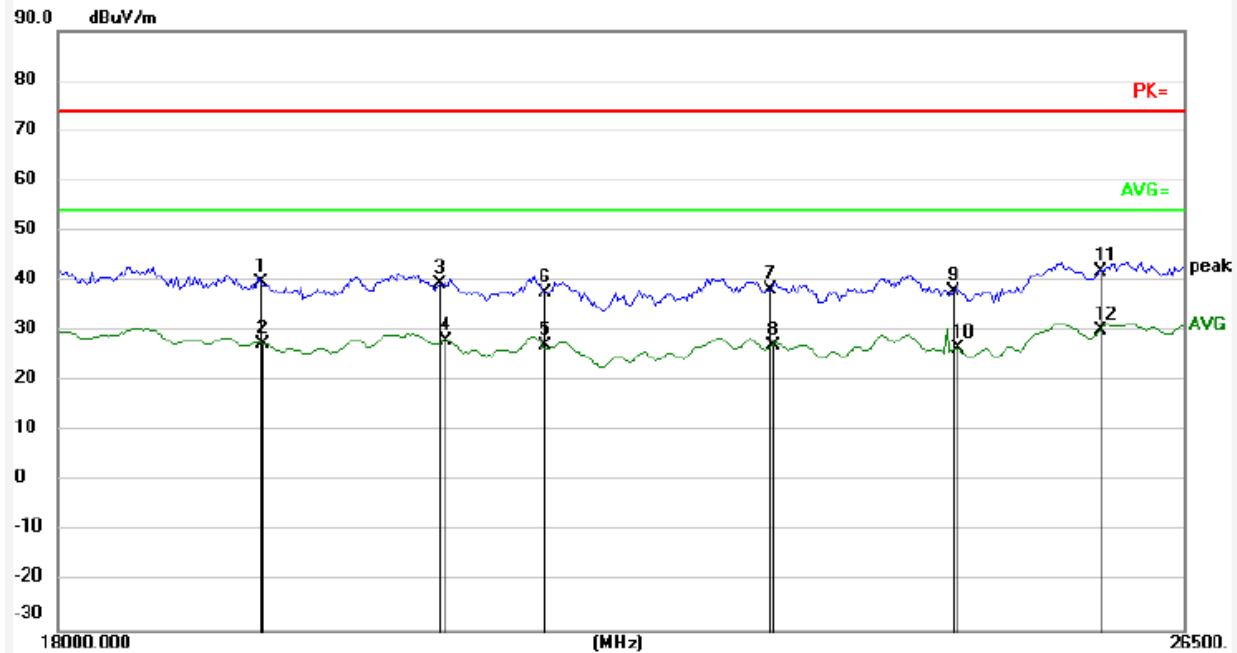
Report No.: AAEMT/RF/250609-02-01

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | Horizontal | Test Result: | Pass |
| Standard: | (RE)FCC PART 15E | Test By: | Aman |
| Test Mode: | Keeping TX mode (5.745GHz) | | |

Report No.: AAEMT/RF/250609-02-01

Test at Channel 149 (5.745 GHz) in transmitting status

18000 MHz~26500 MHz Spurious Emissions. Peak Measurement



| No. | Frequency (MHz) | Factor (dBuV/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|-----------------|----------------|----------------|----------------|-------------|----------|
| 1 | 19300.488 | 0.02 | 39.68 | 39.70 | 74.00 | -34.30 | peak |
| 2 | 19315.454 | 0.02 | 27.50 | 27.52 | 54.00 | -26.48 | AVG |
| 3 | 20519.240 | 0.41 | 38.95 | 39.36 | 74.00 | -34.64 | peak |
| 4 | 20567.009 | 0.43 | 27.69 | 28.12 | 54.00 | -25.88 | AVG |
| 5 | 21264.041 | 0.65 | 26.48 | 27.13 | 54.00 | -26.87 | AVG |
| 6 | 21280.529 | 0.65 | 36.92 | 37.57 | 74.00 | -36.43 | peak |
| 7 | 22977.766 | 1.53 | 36.71 | 38.24 | 74.00 | -35.76 | peak |
| 8 | 23013.413 | 1.54 | 25.56 | 27.10 | 54.00 | -26.90 | AVG |
| 9 | 24485.593 | 1.91 | 36.16 | 38.07 | 74.00 | -35.93 | peak |
| 10 | 24523.580 | 1.91 | 24.55 | 26.46 | 54.00 | -27.54 | AVG |
| 11 | 25730.861 | 2.23 | 39.58 | 41.81 | 74.00 | -32.19 | peak |
| 12 | 25750.812 | 2.23 | 28.06 | 30.29 | 54.00 | -23.71 | AVG |

The test result is calculated as the following:

(3) Result = Reading + Correct Factor

(4) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

Margin = Result

Report No.: AAEMT/RF/250609-02-01

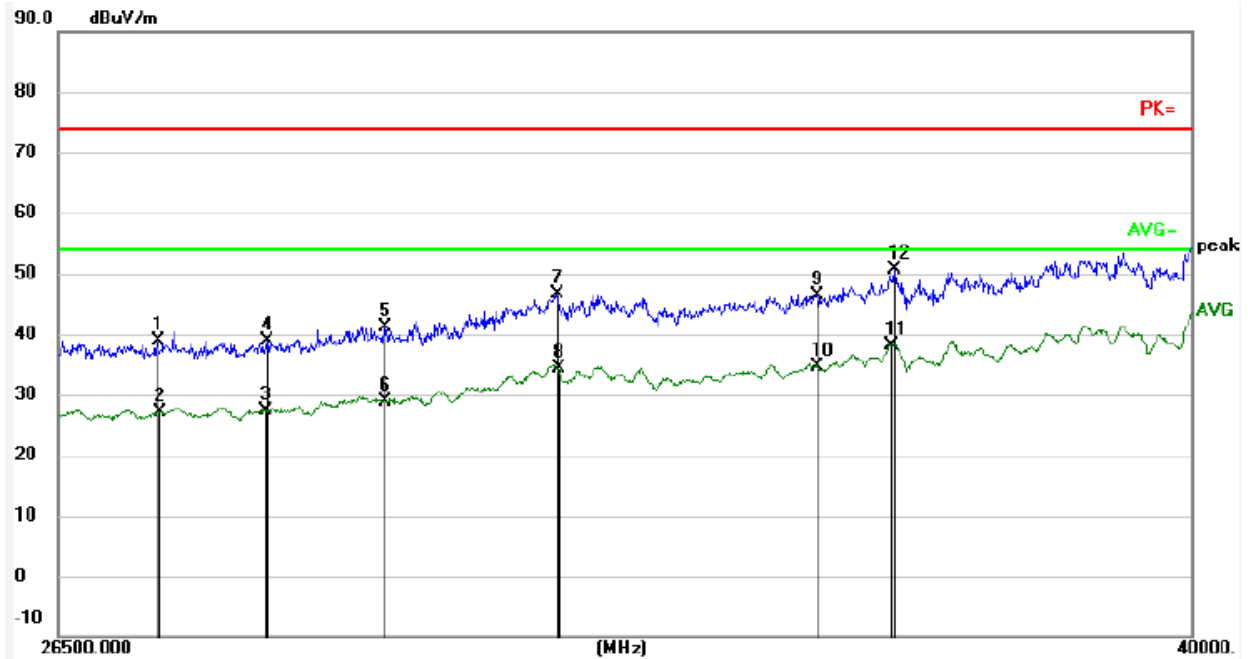
TEST RESULTS (Between 26500MHz – 40000 MHz)

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | Vertical | Test Result: | Pass |
| Standard: | (RE)FCC PART 15E | Test By: | Aman |
| Test Mode: | Keeping TX mode (5.745GHz) | | |

Report No.: AAEMT/RF/250609-02-01

Test at Channel 149 (5.745 GHz) in transmitting status

26500MHz – 40000 MHz Spurious Emissions. Peak Measurement



| No. | Frequency (MHz) | Factor (dBuV/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|-----------------|----------------|----------------|----------------|-------------|----------|
| 1 | 27466.461 | 0.59 | 38.23 | 38.82 | 74.00 | -35.18 | peak |
| 2 | 27489.088 | 0.58 | 26.55 | 27.13 | 54.00 | -26.87 | AVG |
| 3 | 28573.856 | 0.88 | 26.52 | 27.40 | 54.00 | -26.60 | AVG |
| 4 | 28585.624 | 0.89 | 37.92 | 38.81 | 74.00 | -35.19 | peak |
| 5 | 29836.257 | 1.23 | 39.87 | 41.10 | 74.00 | -32.90 | peak |
| 6 | 29848.544 | 1.24 | 27.60 | 28.84 | 54.00 | -25.16 | AVG |
| 7 | 31750.113 | 1.60 | 45.11 | 46.71 | 74.00 | -27.29 | peak |
| 8 | 31776.269 | 1.61 | 32.76 | 34.37 | 54.00 | -19.63 | AVG |
| 9 | 34918.158 | 2.10 | 44.30 | 46.40 | 74.00 | -27.60 | peak |
| 10 | 34918.158 | 2.10 | 32.43 | 34.53 | 54.00 | -19.47 | AVG |
| 11 | 35865.282 | 2.27 | 35.98 | 38.25 | 54.00 | -15.75 | AVG |
| 12 | 35909.610 | 2.28 | 48.32 | 50.60 | 74.00 | -23.40 | peak |

The test result is calculated as the following:

(5) Result = Reading + Correct Factor

(6) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

Margin = Result – Limit

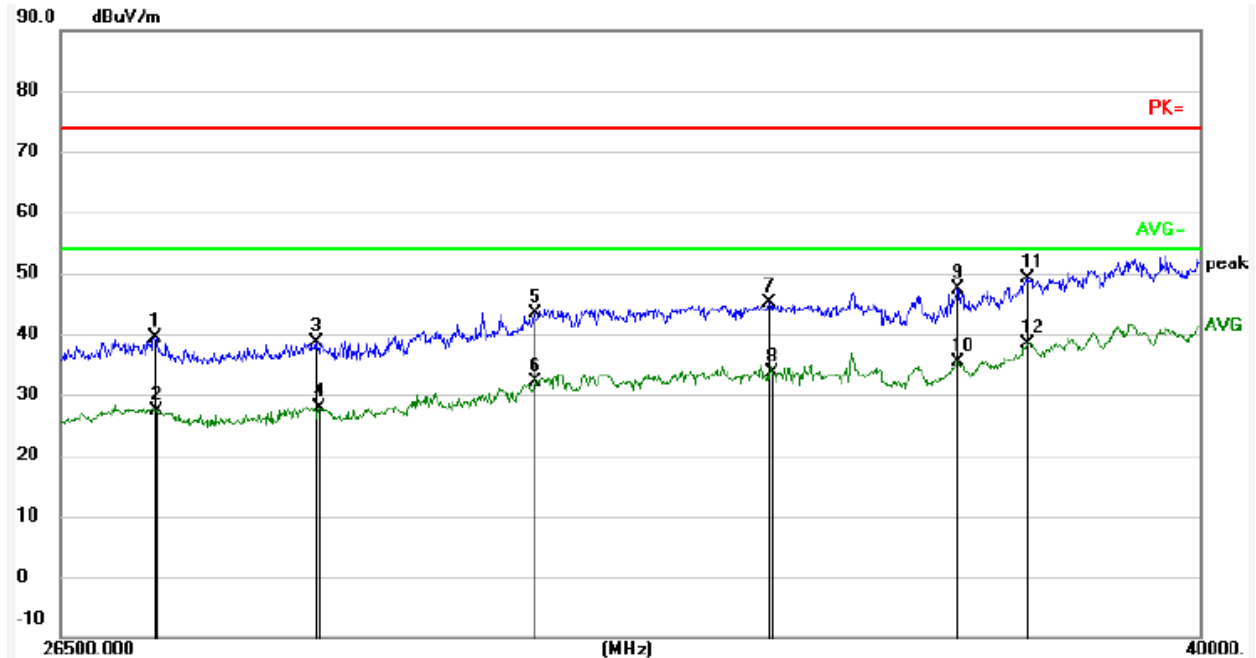
Report No.: AAEMT/RF/250609-02-01

| | | | |
|----------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.4 °C | Relative Humidity: | 53% |
| Distance: | 3m | Test Power: | AC 110V/60Hz |
| Polarization: | Horizontal | Test Result: | Pass |
| Standard: | (RE)FCC PART 15E | Test By: | Aman |
| Test Mode: | Keeping TX mode (5.745GHz) | | |

Report No.: AAEMT/RF/250609-02-01

Test at Channel 149 (5.745 GHz) in transmitting status

26500MHz – 40000 MHz Spurious Emissions. Peak Measurement



| No. | Frequency (MHz) | Factor (dBuV/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|-----------------|----------------|----------------|----------------|-------------|----------|
| 1 | 27409.975 | 0.57 | 38.85 | 39.42 | 74.00 | -34.58 | peak |
| 2 | 27432.555 | 0.57 | 26.91 | 27.48 | 54.00 | -26.52 | AVG |
| 3 | 29060.309 | 1.02 | 37.56 | 38.58 | 74.00 | -35.42 | peak |
| 4 | 29096.227 | 1.02 | 26.83 | 27.85 | 54.00 | -26.15 | AVG |
| 5 | 31437.915 | 1.54 | 41.72 | 43.26 | 74.00 | -30.74 | peak |
| 6 | 31450.861 | 1.55 | 30.50 | 32.05 | 54.00 | -21.95 | AVG |
| 7 | 34234.836 | 1.99 | 43.02 | 45.01 | 74.00 | -28.99 | peak |
| 8 | 34277.149 | 2.01 | 31.56 | 33.57 | 54.00 | -20.43 | AVG |
| 9 | 36641.444 | 2.41 | 44.88 | 47.29 | 74.00 | -26.71 | peak |
| 10 | 36641.444 | 2.41 | 32.87 | 35.28 | 54.00 | -18.72 | AVG |
| 11 | 37573.378 | 2.57 | 46.63 | 49.20 | 74.00 | -24.80 | peak |
| 12 | 37573.378 | 2.57 | 35.77 | 38.34 | 54.00 | -15.66 | AVG |

The test result is calculated as the following:

(5) Result = Reading + Correct Factor

(6) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

Margin = Result

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The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level very low which are attenuated less than 20dB below the limit.

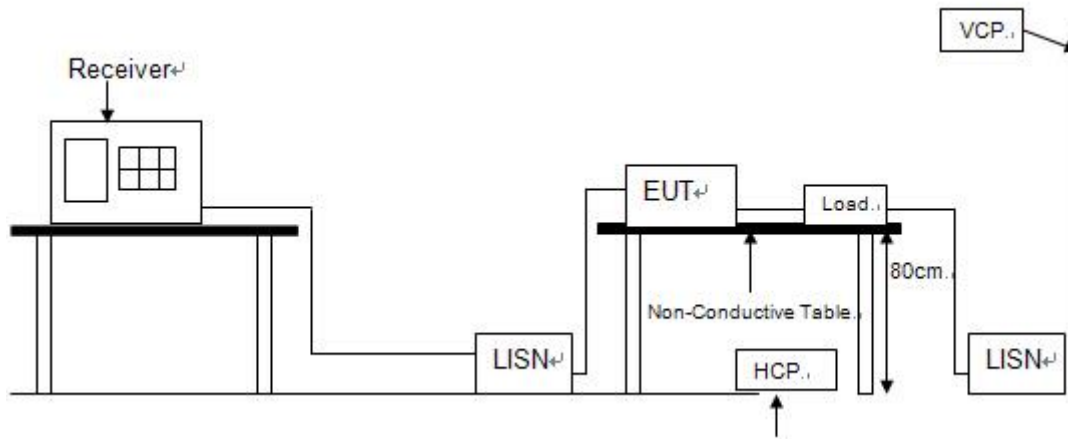
According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

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9. POWER LINE CONDUCTED EMISSION

9.1. Block diagram of test setup



9.2. Power Line Conducted Emission Limits

| Frequency | Quasi-Peak Level dB(μ V) | Average Level dB(μ V) |
|-----------------|----------------------------------|-------------------------------|
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

Report No.: AAEMT/RF/250609-02-01

9.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

9.4. Test Result

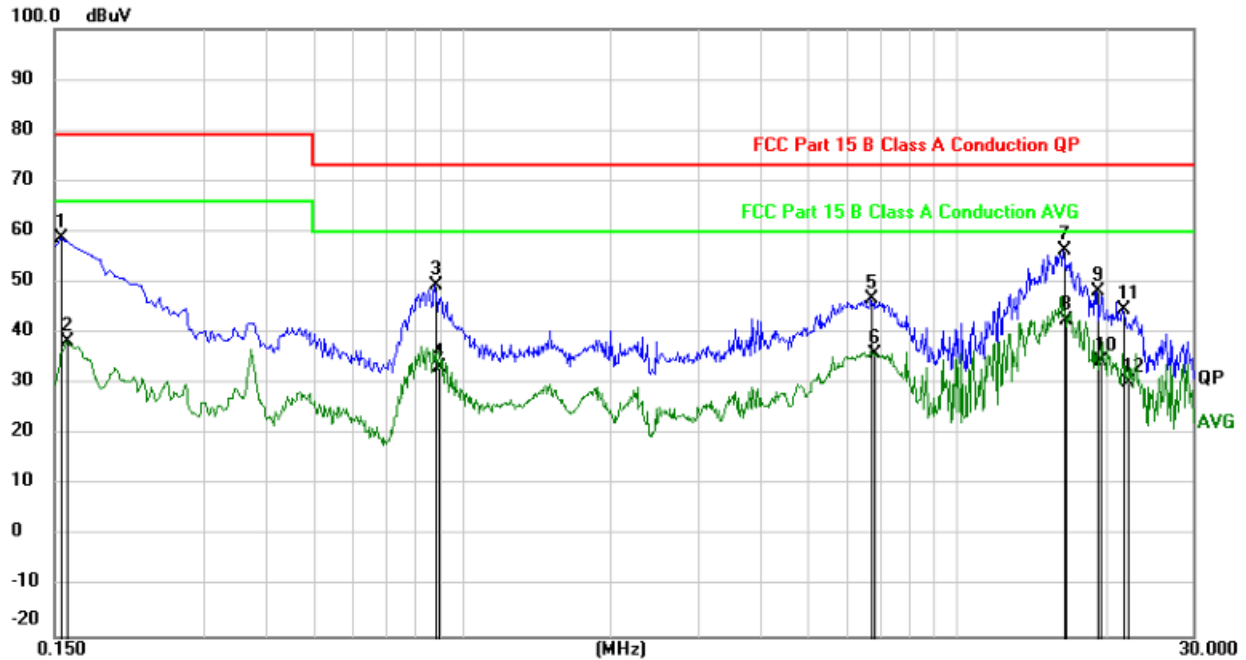
PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “-----” means peak detection; “-----” means average detection

Report No.: AAEMT/RF/250609-02-01

| | | | |
|---------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.8°C | Relative Humidity: | 52% |
| Probe: | Line | Test Power: | AC 110V/60Hz |
| Test Mode: | TX | Test Result: | Pass |
| Standard: | (CE)FCC PART 15 E_QP | | |



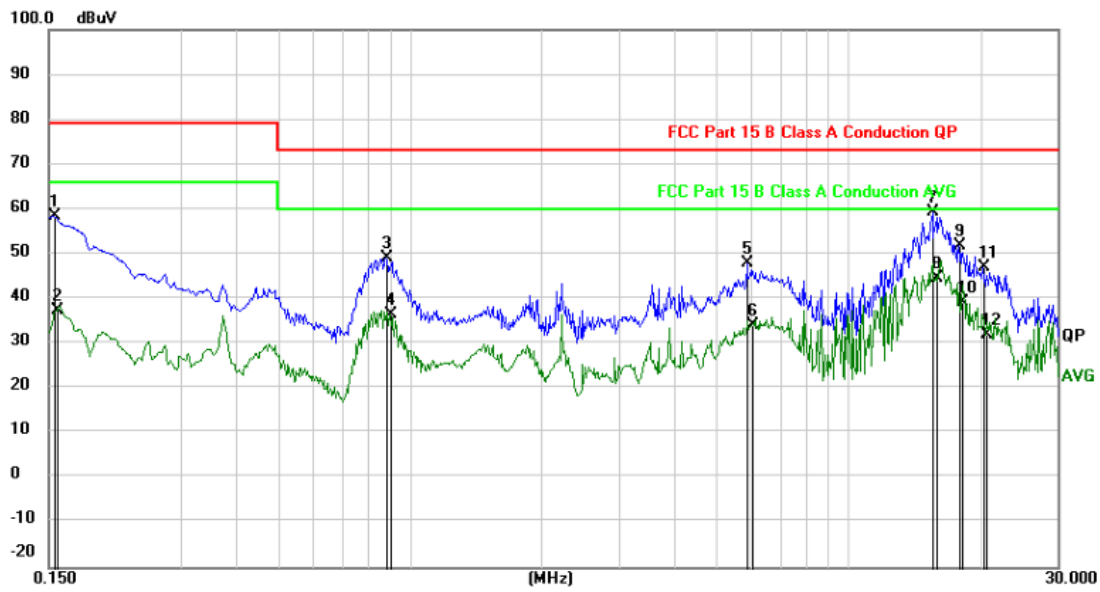
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1 | | 0.1545 | 48.54 | 10.23 | 58.77 | 79.00 | -20.23 | QP |
| 2 | | 0.1590 | 28.13 | 10.24 | 38.37 | 66.00 | -27.63 | AVG |
| 3 | | 0.8835 | 38.59 | 10.73 | 49.32 | 73.00 | -23.68 | QP |
| 4 | | 0.8970 | 22.44 | 10.73 | 33.17 | 60.00 | -26.83 | AVG |
| 5 | | 6.7020 | 36.52 | 10.32 | 46.84 | 73.00 | -26.16 | QP |
| 6 | | 6.8370 | 25.55 | 10.31 | 35.86 | 60.00 | -24.14 | AVG |
| 7 | * | 16.4400 | 46.03 | 10.29 | 56.32 | 73.00 | -16.68 | QP |
| 8 | | 16.5930 | 32.16 | 10.29 | 42.45 | 60.00 | -17.55 | AVG |
| 9 | | 19.1580 | 37.81 | 10.30 | 48.11 | 73.00 | -24.89 | QP |
| 10 | | 19.4639 | 24.15 | 10.30 | 34.45 | 60.00 | -25.55 | AVG |
| 11 | | 21.6645 | 34.07 | 10.49 | 44.56 | 73.00 | -28.44 | QP |
| 12 | | 22.1505 | 19.79 | 10.55 | 30.34 | 60.00 | -29.66 | AVG |

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator
- (3) Margin = Result - Limit

Report No.: AAEMT/RF/250609-02-01

| | | | |
|---------------------|-------------------------------------------------|---------------------------|--------------|
| EUT: | Wireless router with an integrated dish antenna | Model Name. : | QSR5-29 |
| Temperature: | 25.8°C | Relative Humidity: | 52% |
| Probe: | Neutral | Test Power: | AC 110V/60Hz |
| Test Mode: | TX | Test Result: | Pass |
| Standard: | (CE)FCC PART 15 E_QP | | |



| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1 | 0.1545 | 48.31 | 10.23 | 58.54 | 79.00 | -20.46 | QP |
| 2 | 0.1565 | 27.29 | 10.24 | 37.53 | 66.00 | -28.47 | AVG |
| 3 | 0.8835 | 38.44 | 10.73 | 49.17 | 73.00 | -23.83 | QP |
| 4 | 0.9015 | 25.89 | 10.73 | 36.62 | 60.00 | -23.38 | AVG |
| 5 | 5.8830 | 37.28 | 10.80 | 48.08 | 73.00 | -24.92 | QP |
| 6 | 6.0314 | 23.33 | 10.91 | 34.24 | 60.00 | -25.76 | AVG |
| 7 * | 15.5805 | 49.14 | 10.29 | 59.43 | 73.00 | -13.57 | QP |
| 8 | 15.8100 | 34.27 | 10.29 | 44.56 | 60.00 | -15.44 | AVG |
| 9 | 17.8575 | 41.64 | 10.30 | 51.94 | 73.00 | -21.06 | QP |
| 10 | 18.1365 | 28.90 | 10.30 | 39.20 | 60.00 | -20.80 | AVG |
| 11 | 20.3190 | 36.69 | 10.34 | 47.03 | 73.00 | -25.97 | QP |
| 12 | 20.6835 | 21.54 | 10.38 | 31.92 | 60.00 | -28.08 | AVG |

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss + Attenuator
- (3) Margin = Result – Limit

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10. CONDUCTED SPURIOUS EMISSIONS

Test Requirement:

FCC Part 15 C section 15.407

(d) 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.

Test Method:

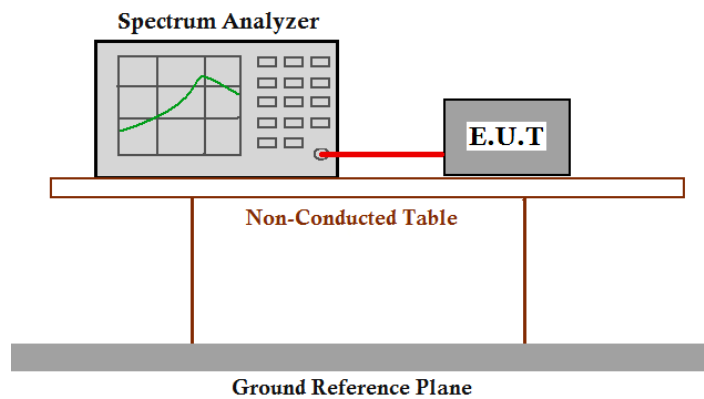
ANSI C63.10: Clause 6.7

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

Test Configuration:



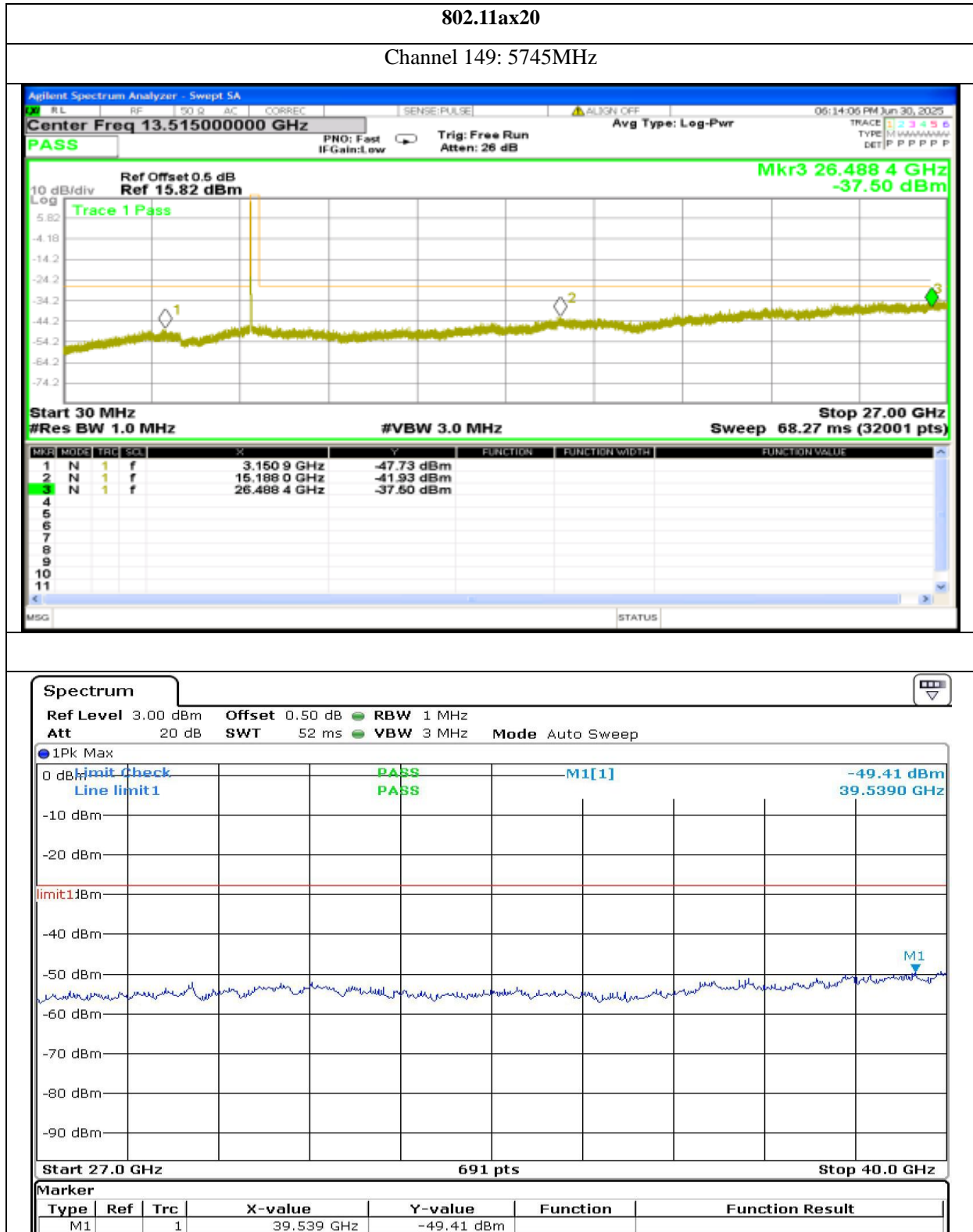
Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worse case.

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Result plot as follows:

Antenna 0:



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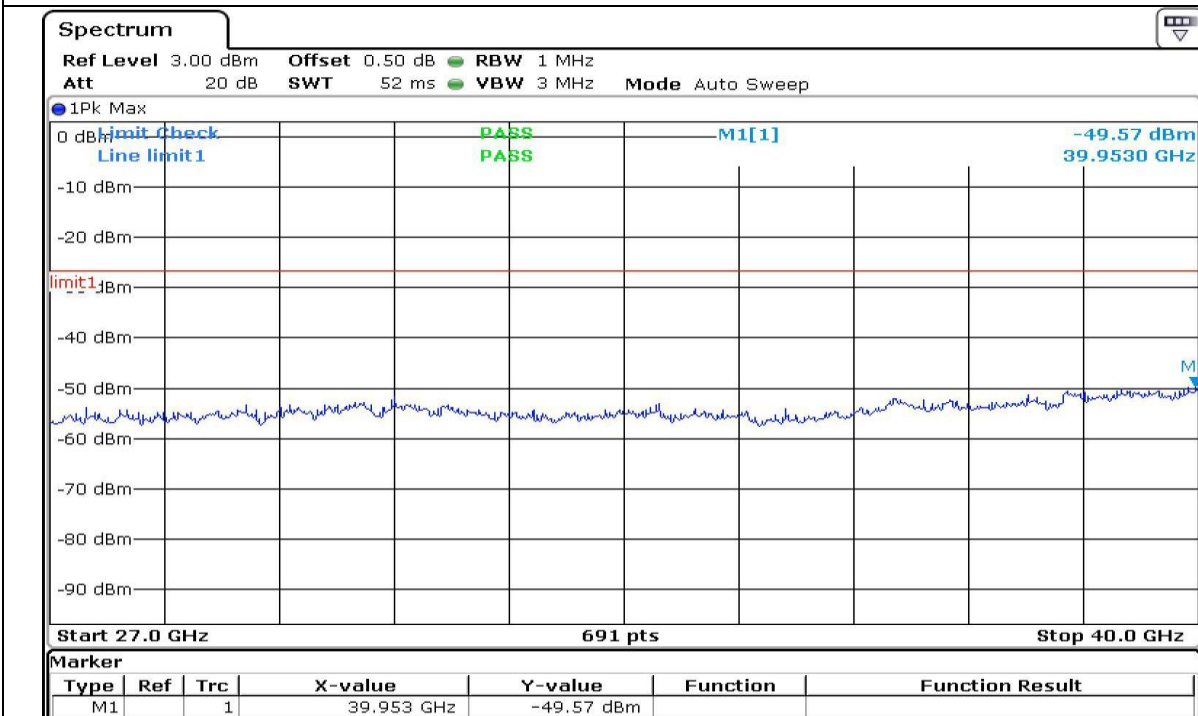
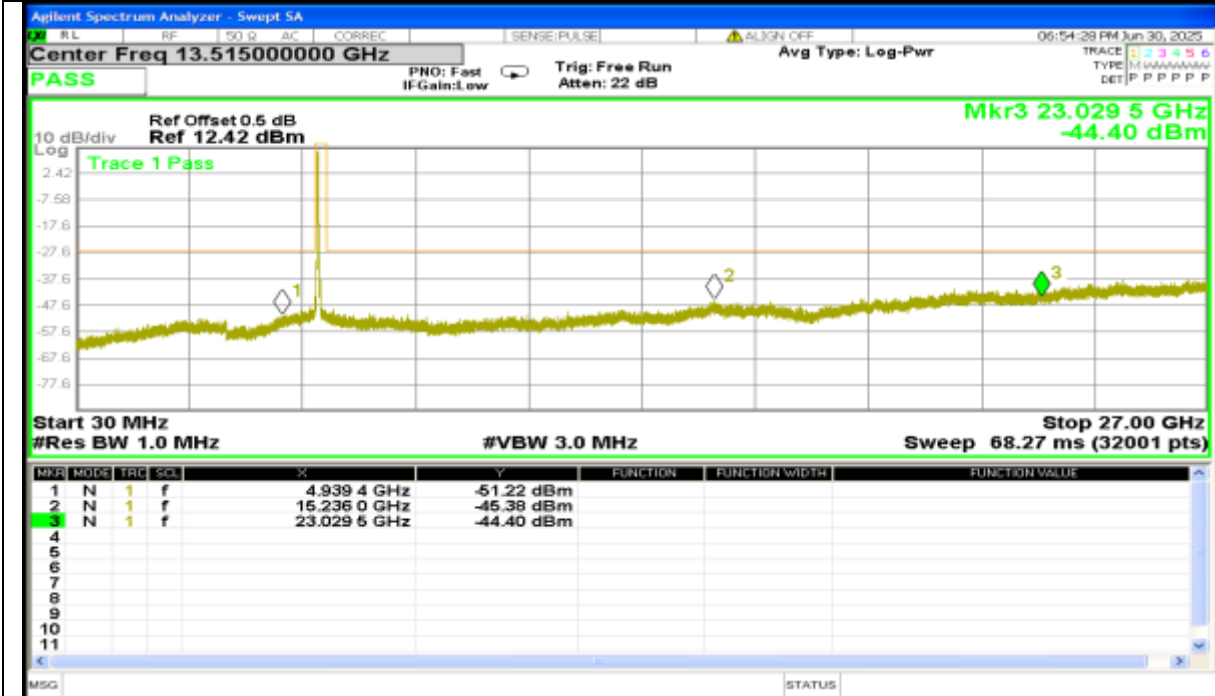
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802.11ax40

Channel 159: 5795MHz



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Antenna 1:



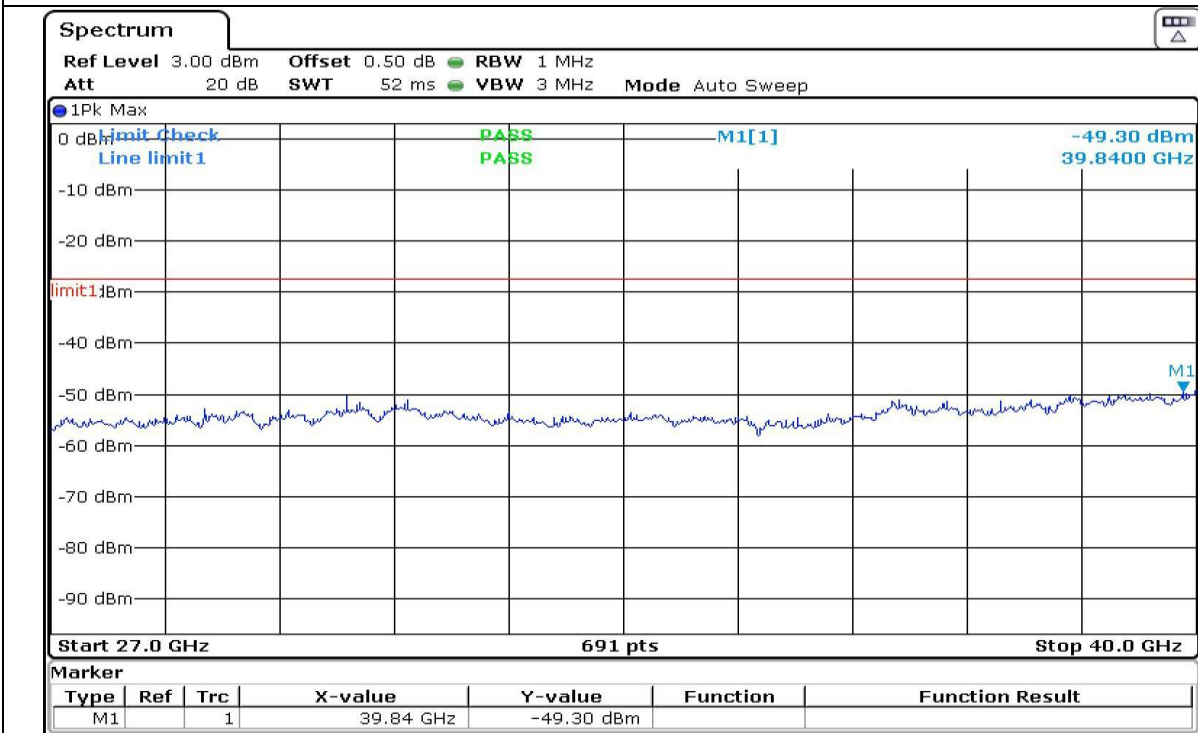
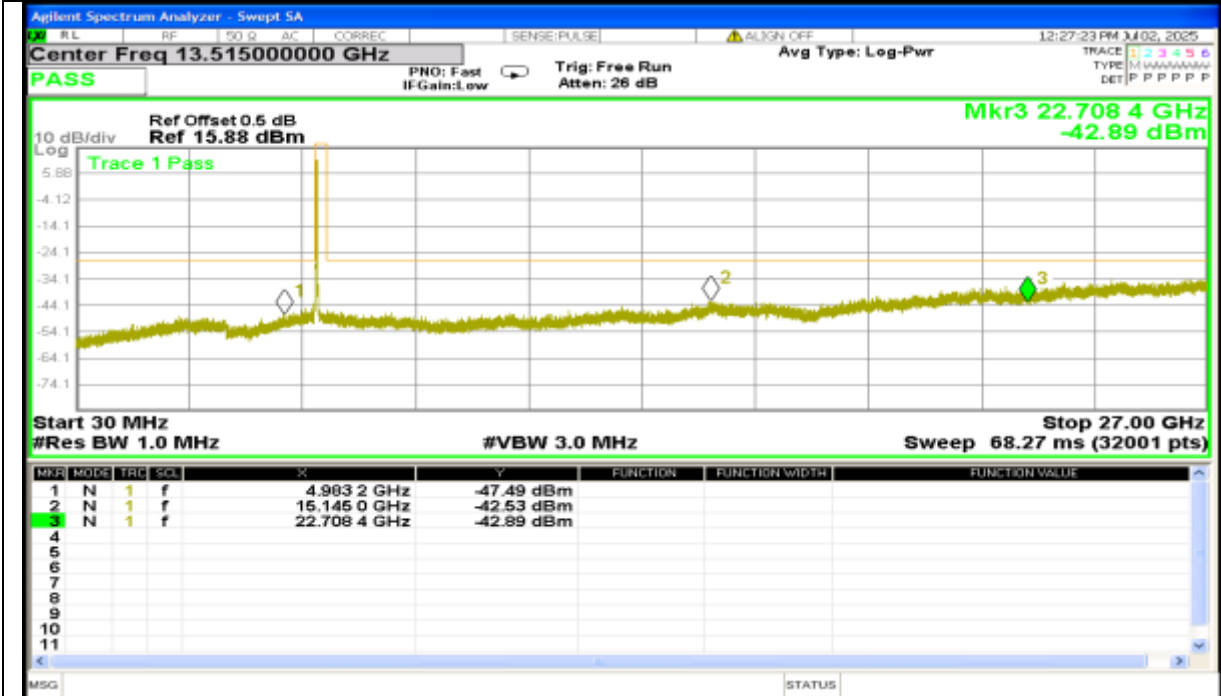
Report No.: AAEMT/RF/250609-02-01



Report No.: AAEMT/RF/250609-02-01

802.11ax40

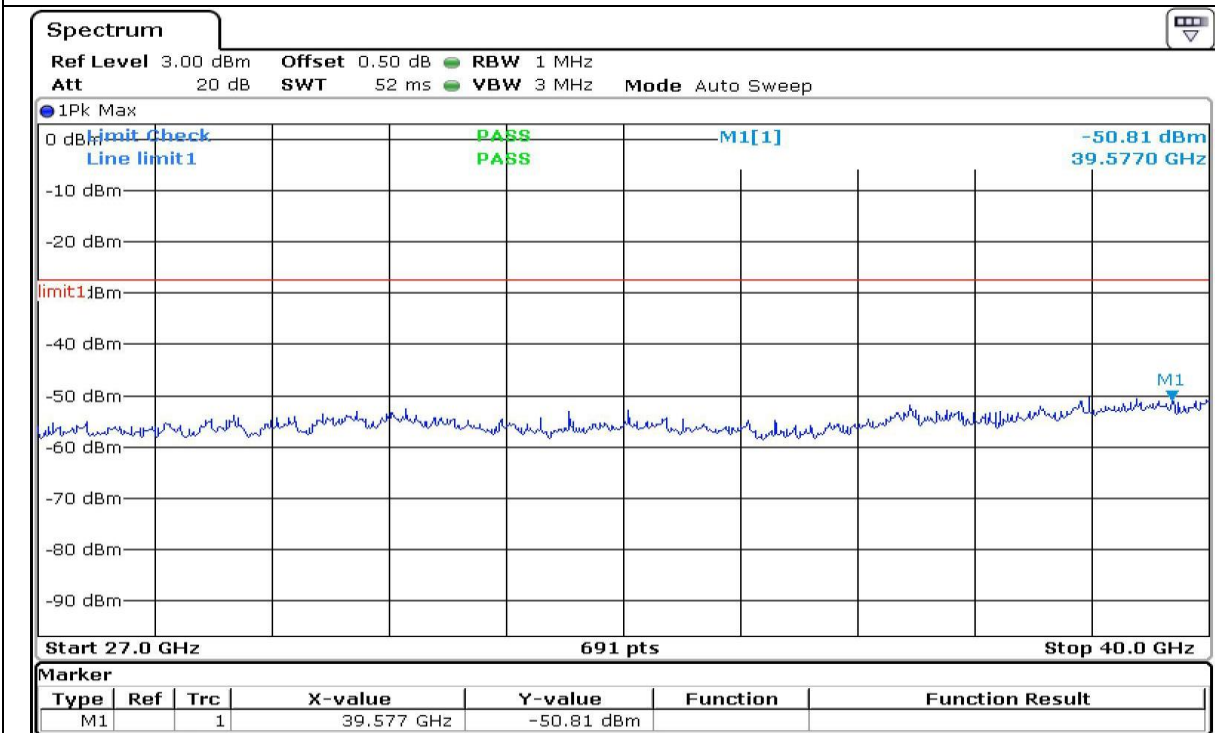
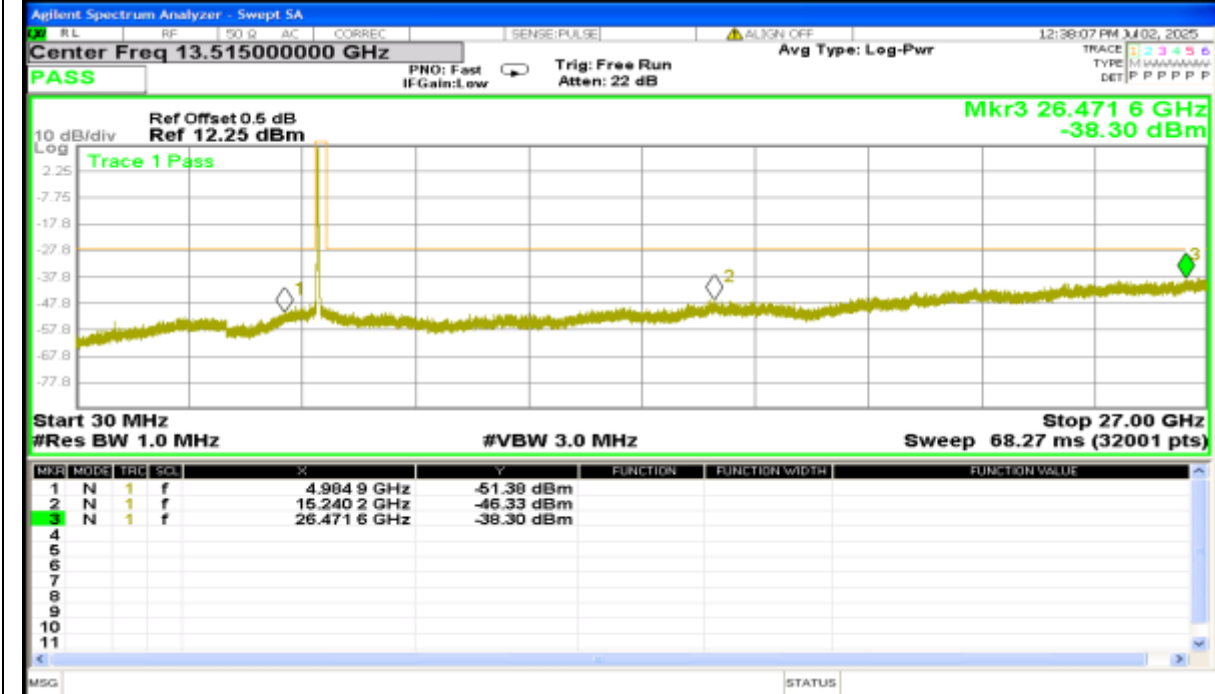
Channel 151: 5755MHz



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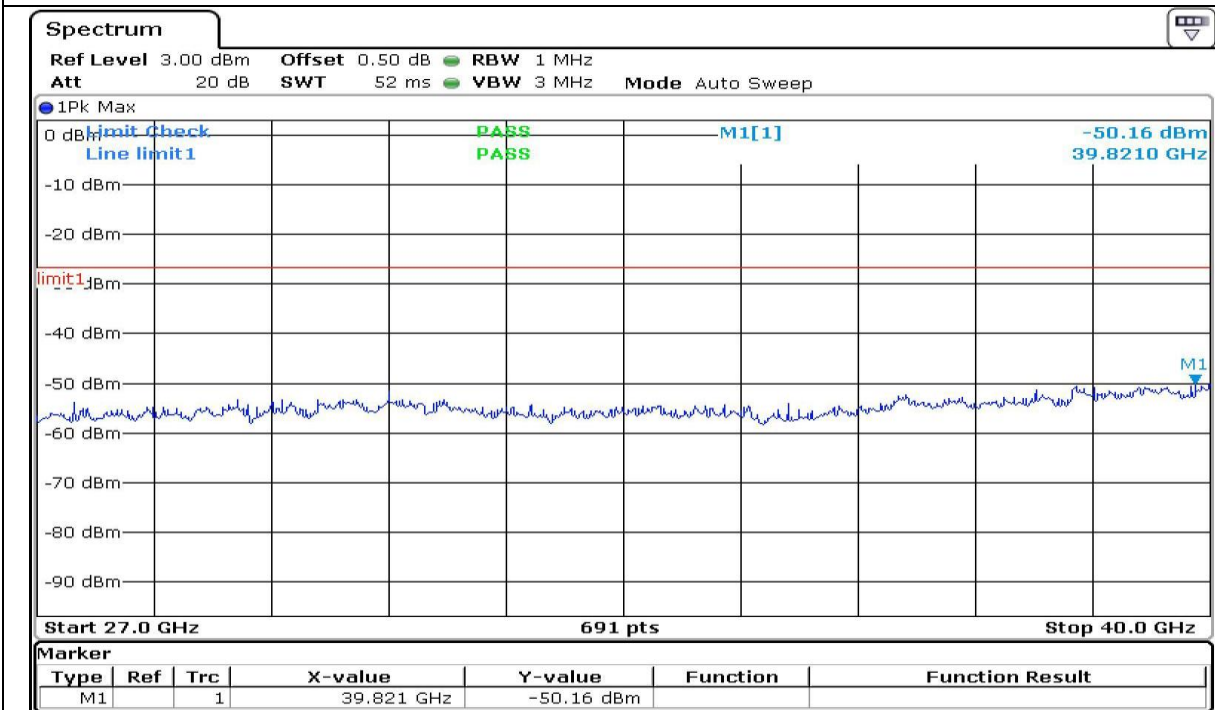
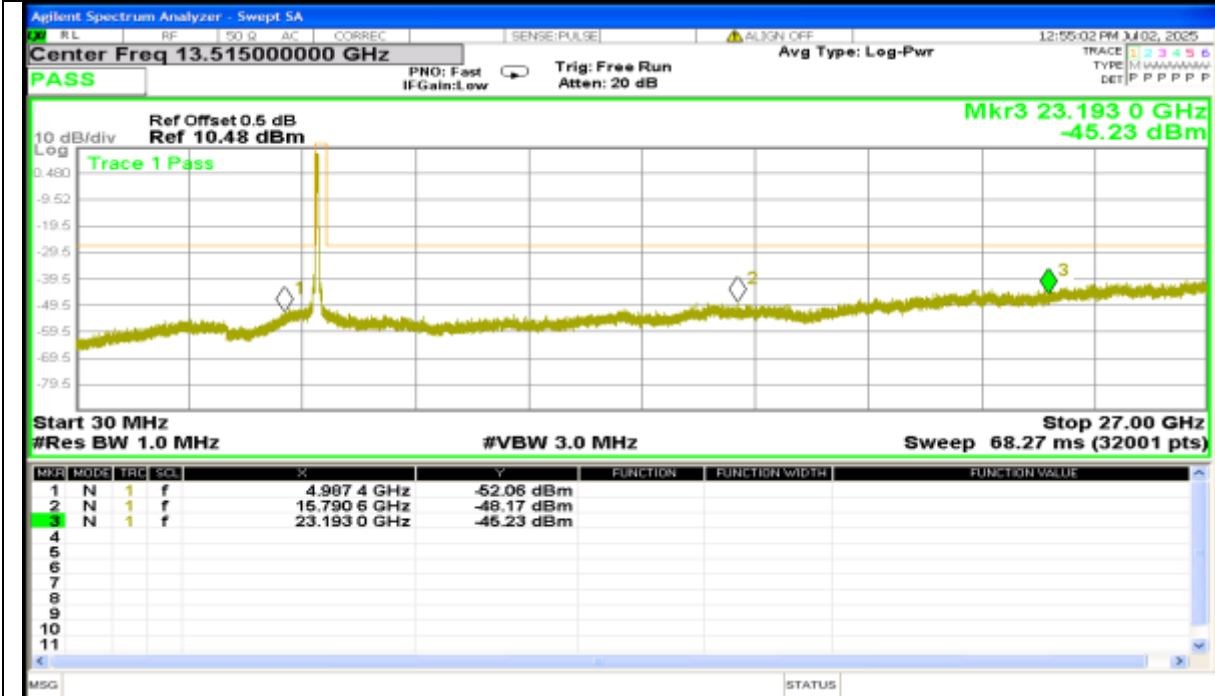
Channel 159: 5795MHz



Report No.: AAEMT/RF/250609-02-01

802.11ax80

Channel 155: 5775MHz



Report No.: AAEMT/RF/250609-02-01

11. ANTENNA REQUIREMENTS

11.1. Limit

15.203 requirement: For intentional device, according to 15.203: 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.

11.2. EUT ANTENNA

The antennas used for this product are Parabolic dish antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 29 dBi. and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.



****End of Report****