

FCC Radio Test Report

FCC ID: RWO-RZ090368QCNFA**This report concerns: Class II Permissive Changes**

Report No. : BTL-FCCP-5-2212C001
Equipment : Notebook PC
Model Name : RZ09-0482
Brand Name : RAZER
Applicant : Razer Inc.
Address : 9 Pasteur, Suite 100, Irvine, CA92618, USA.
Manufacturer : Razer Inc.
Address : 9 Pasteur, Suite 100, Irvine, CA92618, USA.

Equipment Class : 6XD - 15E 6 GHz Low Power Indoor Client

Radio Function : U-NII 6 GHz (U-NII 5, U-NII 6, U-NII 7, U-NII 8)

FCC Rule Part(s) : FCC CFR Title 47, Part15, Subpart E (15.407)
Measurement Procedure(s) : ANSI C63.10-2013

Date of Receipt : 2022/12/19
Date of Test : 2022/12/19 ~ 2023/2/1
Issued Date : 2023/4/24

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by : Eric Lee
 Eric Lee, Engineer

Approved by : Jerry Chang
 Jerry Chuang, Supervisor

**BTL Inc.**

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

| Report No. | Version | Description | Issued Date | Note |
|---------------------|---------|---|-------------|---------|
| BTL-FCCP-5-2212C001 | R00 | Original Report. | 2023/2/10 | Invalid |
| BTL-FCCP-5-2212C001 | R01 | Revised report to address TCB's comments. | 2023/4/24 | Valid |

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

| Standard(s) Section | Description | Test Result | Judgement | Remark |
|--------------------------|--|--------------------------|-----------|--------|
| 15.407(b)(9) | AC power line conducted emissions | APPENDIX A | Pass | ----- |
| 15.407(b)(6)(9) | Undesirable emissions | APPENDIX B APPENDIX C | Pass | ----- |
| 15.407(a)(4)(5)(6)(7)(8) | Maximum E.I.R.P. | APPENDIX D | Pass | ----- |
| 15.203 15.407(a)(9) | Antenna requirement | NOTE (3) | Pass | ----- |
| 15.407(a)(12) | Maximum power spectral density | NOTE (3) | Pass | ----- |
| 15.407(b)(7) | In-band emission (Mask) | NOTE (3) | Pass | ----- |
| 15.407(b)(10) | Restricted bands of operation | NOTE (3) | Pass | ----- |
| 15.407(c) | Automatically discontinue transmission | NOTE (3) | Pass | ----- |
| 15.407(d) | Operational restrictions for 6 GHz U-NII devices | NOTE (3) | Pass | ----- |
| 15.407(d)(6) | Contention-based protocol | NOTE (3) | Pass | ----- |
| 15.407(g) 2.1055 | Frequency stability | NOTE (3) | Pass | ----- |

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This item is demonstrated to full compliance referring to the test report number RF201119E01-6 of the integrated module (model name: QCNFA765, FCC ID: J9C-QCNFA765).
- (4) The antenna gain of EUT is smaller than that of the module. So in this report the worst cases of radiated spurious emissions and AC Power Line Conducted Emissions were evaluated and recorded. And evaluated the output power items and recorded in the report. For the test results of all other test items please refer to module test reports.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

C05 CB08 CB11 SR10 SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

C06 CB21 CB22

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately **95 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

| Test Site | Method | Measurement Frequency Range | U (dB) |
|-----------|--------|-----------------------------|--------|
| C05 | CISPR | 150 kHz ~ 30MHz | 3.44 |

B. Radiated emissions test:

| Test Site | Measurement Frequency Range | U (dB) |
|-----------|-----------------------------|--------|
| CB21 | 0.03 GHz ~ 0.2 GHz | 4.17 |
| | 0.2 GHz ~ 1 GHz | 4.72 |
| | 1 GHz ~ 6 GHz | 5.21 |
| | 6 GHz ~ 18 GHz | 5.51 |
| | 18 GHz ~ 26 GHz | 3.69 |
| | 26 GHz ~ 40 GHz | 4.23 |

C. Conducted test :

| Test Item | U,(dB) |
|---------------------------|--------|
| Maximum E.I.R.P. | 0.3669 |
| Contention-based protocol | - |

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

| Test Item | Environment Condition | Test Voltage | Tested by |
|-----------------------------------|-----------------------|--------------|-----------|
| AC Power Line Conducted Emissions | 21°C, 65% | AC 120V/60Hz | Paul Shen |
| Radiated emissions below 1 GHz | 23°C, 59% | AC 120V/60Hz | Mark Wang |
| Radiated emissions above 1 GHz | 23°C, 59% | AC 120V/60Hz | Mark Wang |
| Maximum E.I.R.P. | 22.2°C, 56% | AC 120V/60Hz | Tim Lee |

1.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

| Test Software | QRCT V4.0 | | | |
|-----------------------|-----------|----------|----------|-----------|
| UNII-5 | | | | |
| Mode | 5955 MHz | 6175 MHz | 6415 MHz | Data Rate |
| IEEE 802.11ax (HE20) | -0.5 | -1 | 0 | HE0 |
| Mode | 5965 MHz | 6165 MHz | 6405 MHz | Data Rate |
| IEEE 802.11ax (HE40) | 2 | 3 | 3 | HE0 |
| Mode | 5985 MHz | 6145 MHz | 6385 MHz | Data Rate |
| IEEE 802.11ax (HE80) | 5 | 5 | 6 | HE0 |
| Mode | 6025 MHz | 6345 MHz | | Data Rate |
| IEEE 802.11ax (HE160) | 6.5 | 7 | | HE0 |

| UNII-6 | | | | |
|-----------------------|----------|----------|----------|-----------|
| Mode | 6435 MHz | 6475 MHz | 6515 MHz | Data Rate |
| IEEE 802.11ax (HE20) | 1 | 1 | 2 | HE0 |
| Mode | 6445 MHz | 6485 MHz | | Data Rate |
| IEEE 802.11ax (HE40) | 3.5 | 3 | | HE0 |
| Mode | 6465 MHz | | | Data Rate |
| IEEE 802.11ax (HE80) | 6.5 | | | HE0 |
| Mode | 6505 MHz | | | Data Rate |
| IEEE 802.11ax (HE160) | 7.5 | | | HE0 |

| UNII-6+ UNII-7 | | |
|----------------------|----------|-----------|
| Mode | 6525 MHz | Data Rate |
| IEEE 802.11ax (HE40) | 4 | HE0 |

| UNII-7 | | | | |
|-----------------------|----------|----------|----------|-----------|
| Mode | 6535 MHz | 6695 MHz | 6855 MHz | Data Rate |
| IEEE 802.11ax (HE20) | 1 | 0 | 1 | HE0 |
| Mode | 6685 MHz | 6845 MHz | | Data Rate |
| IEEE 802.11ax (HE40) | 4 | 4 | | HE0 |
| Mode | 6545 MHz | 6625 MHz | 6785 MHz | Data Rate |
| IEEE 802.11ax (HE80) | 6 | 5 | 5 | HE0 |
| Mode | 6665 MHz | | | Data Rate |
| IEEE 802.11ax (HE160) | 8 | | | HE0 |

| UNII-8 | | | | | |
|-----------------------|----------|----------|----------|----------|-----------|
| Mode | 6875 MHz | 6895 MHz | 7095 MHz | 7115 MHz | Data Rate |
| IEEE 802.11ax (HE20) | 1 | 1.5 | 2.5 | -7.5 | HE0 |
| Mode | 6885 MHz | 7085 MHz | | | Data Rate |
| IEEE 802.11ax (HE40) | 4 | 5 | | | HE0 |
| Mode | 6865 MHz | 6945 MHz | 7025 MHz | | Data Rate |
| IEEE 802.11ax (HE80) | 6.5 | 6.5 | 6.5 | | HE0 |
| Mode | 6985 MHz | | | | Data Rate |
| IEEE 802.11ax (HE160) | 8 | | | | HE0 |

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

| | |
|-------------------------------------|--|
| Equipment | Notebook PC |
| Model Name | RZ09-0482 |
| Brand Name | RAZER |
| Model Difference | N/A |
| Power Source | #1 DC voltage supplied from AC adapter. #2 Supplied from battery. Model: RC30-0482 |
| Power Rating | #1 I/P: 100-240V~3.6A 50/60Hz O/P: 19.5V \equiv 11.8A #2 DC 15.4V, 4422mAh, 68.1Wh |
| Products Covered | 1* POWER Adapter: RC30-024801 |
| Operation Band | UNII-5: 5925 MHz ~ 6425 MHz UNII-6: 6425 MHz ~ 6525 MHz UNII-7: 6525 MHz ~ 6875 MHz UNII-8: 6875 MHz ~ 7125 MHz |
| Modulation Technology | OFDMA |
| Transfer Rate | IEEE 802.11ax: up to 2402 Mbps |
| Maximum E.I.R.P. for UNII-5 | IEEE 802.11ax (HE20): 7.50 dBm (0.0056 W) IEEE 802.11ax (HE40): 10.87 dBm (0.0122 W) IEEE 802.11ax (HE80): 13.44 dBm (0.0221 W) IEEE 802.11ax (HE160): 15.03 dBm (0.0318 W) |
| Maximum E.I.R.P. for UNII-6 | IEEE 802.11ax (HE20): 8.30 dBm (0.0068 W) IEEE 802.11ax (HE40): 11.43 dBm (0.0139 W) IEEE 802.11ax (HE80): 14.37 dBm (0.0274 W) IEEE 802.11ax (HE160): 15.09 dBm (0.0323 W) |
| Maximum E.I.R.P. for UNII-7 | IEEE 802.11ax (HE20): 8.60 dBm (0.0072 W) IEEE 802.11ax (HE40): 11.58 dBm (0.0144 W) IEEE 802.11ax (HE80): 13.71 dBm (0.0235 W) IEEE 802.11ax (HE160): 15.10 dBm (0.0324 W) |
| Maximum E.I.R.P. for UNII-6+ UNII-7 | IEEE 802.11ax (HE40): 11.48 dBm (0.0141 W) |
| Maximum E.I.R.P. for UNII-8 | IEEE 802.11ax (HE20): 8.14 dBm (0.0065 W) IEEE 802.11ax (HE40): 10.88 dBm (0.0122 W) IEEE 802.11ax (HE80): 13.26 dBm (0.0212 W) IEEE 802.11ax (HE160): 14.81 dBm (0.0302 W) |
| Test Model | RZ09-0482 |
| Sample Status | Engineering Sample |
| EUT Modification(s) | N/A |

NOTE:

- (1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

| UNII-5 | | | | | | | |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|
| IEEE 802.11ax (HE20) | | IEEE 802.11ax (HE40) | | IEEE 802.11ax (HE80) | | IEEE 802.11ax (HE160) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 1 | 5955 | 3 | 5965 | 7 | 5985 | 15 | 6025 |
| 5 | 5975 | 11 | 6005 | 23 | 6065 | 47 | 6185 |
| 9 | 5995 | 19 | 6045 | 39 | 6145 | 79 | 6345 |
| 13 | 6015 | 27 | 6085 | 55 | 6225 | | |
| 17 | 6035 | 35 | 6125 | 71 | 6305 | | |
| 21 | 6055 | 43 | 6165 | 87 | 6385 | | |
| 25 | 6075 | 51 | 6205 | | | | |
| 29 | 6095 | 59 | 6245 | | | | |
| 33 | 6115 | 67 | 6285 | | | | |
| 37 | 6135 | 75 | 6325 | | | | |
| 41 | 6155 | 83 | 6365 | | | | |
| 45 | 6175 | 91 | 6405 | | | | |
| 49 | 6195 | | | | | | |
| 53 | 6215 | | | | | | |
| 57 | 6235 | | | | | | |
| 61 | 6255 | | | | | | |
| 65 | 6275 | | | | | | |
| 69 | 6295 | | | | | | |
| 73 | 6315 | | | | | | |
| 77 | 6335 | | | | | | |
| 81 | 6355 | | | | | | |
| 85 | 6375 | | | | | | |
| 89 | 6395 | | | | | | |
| 93 | 6415 | | | | | | |

| UNII-6 | | | | | | | |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|
| IEEE 802.11ax (HE20) | | IEEE 802.11ax (HE40) | | IEEE 802.11ax (HE80) | | IEEE 802.11ax (HE160) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 97 | 6435 | 99 | 6445 | 103 | 6465 | 111 | 6505 |
| 101 | 6455 | 107 | 6485 | | | | |
| 105 | 6475 | 115 | 6525 | | | | |
| 109 | 6495 | | | | | | |
| 113 | 6515 | | | | | | |

| UNII-7 | | | | | | | |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|
| IEEE 802.11ax (HE20) | | IEEE 802.11ax (HE40) | | IEEE 802.11ax (HE80) | | IEEE 802.11ax (HE160) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 117 | 6535 | 123 | 6565 | 119 | 6545 | 143 | 6665 |
| 121 | 6555 | 131 | 6605 | 135 | 6625 | 175 | 6825 |
| 125 | 6575 | 139 | 6645 | 151 | 6705 | | |
| 129 | 6595 | 147 | 6685 | 167 | 6785 | | |
| 133 | 6615 | 155 | 6725 | | | | |
| 137 | 6635 | 163 | 6765 | | | | |
| 141 | 6655 | 171 | 6805 | | | | |
| 145 | 6675 | 179 | 6845 | | | | |
| 149 | 6695 | | | | | | |
| 153 | 6715 | | | | | | |
| 157 | 6735 | | | | | | |
| 161 | 6755 | | | | | | |
| 165 | 6775 | | | | | | |
| 169 | 6795 | | | | | | |
| 173 | 6815 | | | | | | |
| 177 | 6835 | | | | | | |
| 181 | 6855 | | | | | | |

| UNII-8 | | | | | | | |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------------|-----------------|
| IEEE 802.11ax (HE20) | | IEEE 802.11ax (HE40) | | IEEE 802.11ax (HE80) | | IEEE 802.11ax (HE160) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 185 | 6875 | 187 | 6885 | 183 | 6865 | 207 | 6985 |
| 189 | 6895 | 195 | 6925 | 199 | 6945 | | |
| 193 | 6915 | 203 | 6965 | 215 | 7025 | | |
| 197 | 6935 | 211 | 7005 | | | | |
| 201 | 6955 | 219 | 7045 | | | | |
| 205 | 6975 | 227 | 7085 | | | | |
| 209 | 6995 | | | | | | |
| 213 | 7015 | | | | | | |
| 217 | 7035 | | | | | | |
| 221 | 7055 | | | | | | |
| 225 | 7075 | | | | | | |
| 229 | 7095 | | | | | | |
| 233 | 7115 | | | | | | |

(3) Table for Filed Antenna:

| Ant. | Manufacturer | P/N | Type | Connector | Gain (dBi) |
|------|--------------|-----------------|------|-----------|------------|
| 1 | Amphenol | BY5973-15-001-C | PIFA | N/A | 4.57 |
| 2 | Amphenol | BY5962-15-002-C | PIFA | N/A | 3.46 |

Note:

- 1) This EUT supports MIMO 2X2, any transmit signals are uncorrelated with each other, so Directional gain= $10\log\left[\frac{(10^{G1/10}+10^{G2/10}+\dots+10^{GN/10})}{N}\right]$ dBi, that is Directional gain= $10\log\left[\frac{(10^{4.57/10}+10^{3.46/10})}{2}\right]$ dBi= 4.05.
 - 2) Ant.1 refers to main antenna, Ant.2 refers to aux antenna.
 - 3) The AUX antenna connector of the module connected to the MAIN antenna of the EUT and the MAIN antenna connector of the module connected to the AUX antenna of the EUT.
- (4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2 TEST MODES

| Test Items | Test mode | Channel | Note |
|---|-----------------------|---|----------|
| AC power line conducted emissions | Normal/Idle | - | - |
| Transmitter Radiated Emissions (below 1GHz) | IEEE 802.11ax (HE20) | 233 | - |
| Transmitter Radiated Emissions (above 1GHz) | IEEE 802.11ax (HE20) | 233 | Bandedge |
| | IEEE 802.11ax (HE160) | 15/111/143/207 | |
| | IEEE 802.11ax (HE20) | 233 | Harmonic |
| | IEEE 802.11ax (HE160) | 15/111/143/207 | |
| Maximum E.I.R.P. | IEEE 802.11ax (HE20) | 1/45/93 97/105/113 117/149/181 185/189/229/233 | - |
| | IEEE 802.11ax (HE40) | 3/43/91 99/107/115 147/179 187/227 | |
| | IEEE 802.11ax (HE80) | 7/39/87 103 119/135/167 183/199/215 | |
| | IEEE 802.11ax (HE160) | 15/79 111 143 207 | |

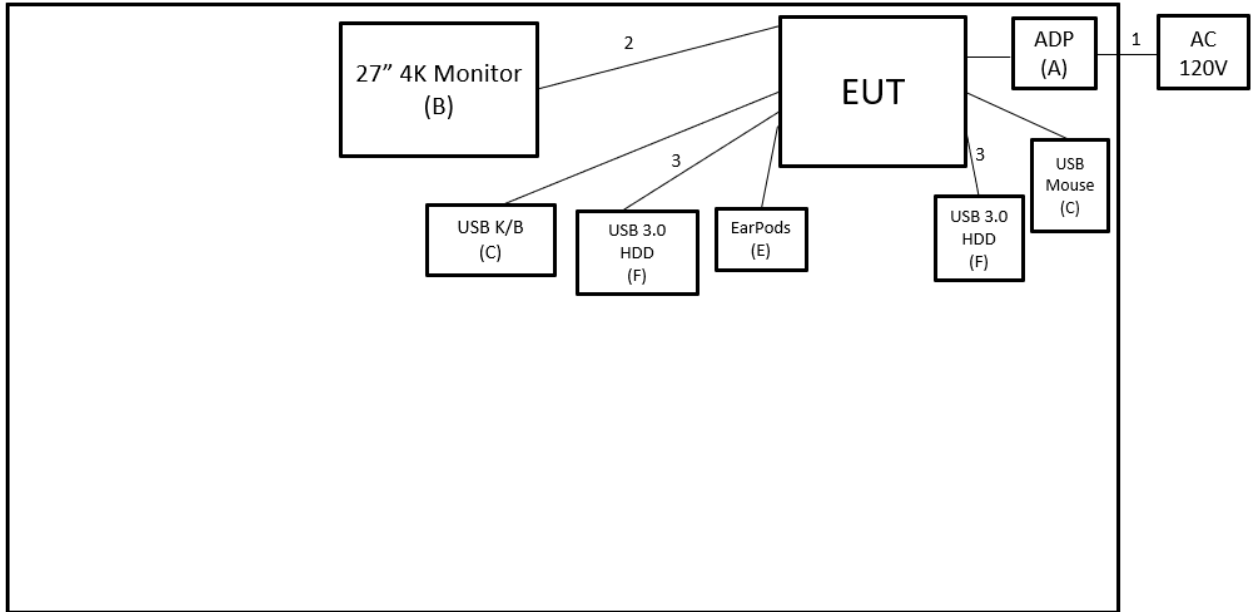
NOTE:

- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.

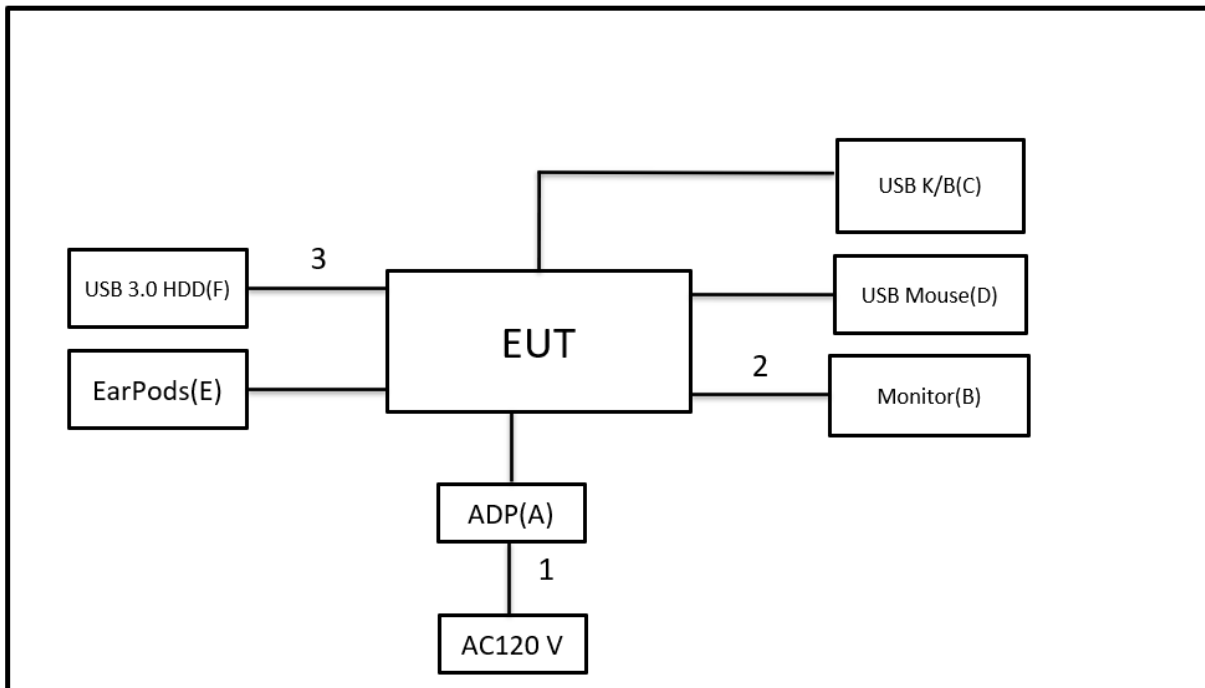
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 0.

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

AC power line conducted emissions

| Item | Equipment | Brand | Model No. | Series No. | Remarks |
|------|----------------|-------|------------------|------------------------------|-----------------------------|
| A | ADP | Razer | RC30-024801 | N/A | Supplied by test requester. |
| B | 27" 4K Monitor | DELL | U2720Q | CN-083VF-WSL00-0B7-332L | Furnished by test lab. |
| C | USB K/B | DELL | KB216t | CN-0W33XP-L0300-797-05TY-A03 | Furnished by test lab. |
| D | USB Mouse | DELL | MOCZUL | CN-049TWY-PRC00-79E-01HA | Furnished by test lab. |
| E | EarPods | Apple | A1472 | N/A | Furnished by test lab. |
| F | USB 3.0 HDD | WD | WDBC3C0010BSL-0B | WX81A88ALJUC | Furnished by test lab. |

| Item | Shielded | Ferrite Core | Length | Cable Type | Remarks |
|------|----------|--------------|--------|------------------------|------------------------|
| 1 | N/A | N/A | 1m | Power Cord | Furnished by test lab. |
| 2 | N/A | N/A | 1.7m | HDMI Cable | Furnished by test lab. |
| 3 | N/A | N/A | 0.18m | Type C to Type C Cable | Furnished by test lab. |

Radiated Emissions

| Item | Equipment | Brand | Model No. | Series No. | Remarks |
|------|----------------|-------|------------------|------------------------------|-----------------------------|
| A | ADP | Razer | RC30-024801 | N/A | Supplied by test requester. |
| B | 27" 4K Monitor | DELL | U2720Q | CN-083VF-WSL00-0B7-332L | Furnished by test lab. |
| C | USB K/B | DELL | KB216t | CN-0W33XP-L0300-797-05TY-A03 | Furnished by test lab. |
| D | USB Mouse | DELL | MOCZUL | CN-049TWY-PRC00-79E-01HA | Furnished by test lab. |
| E | EarPods | Apple | A1472 | N/A | Furnished by test lab. |
| F | USB 3.0 HDD | WD | WDBC3C0010BSL-0B | WX81A88ALJUC | Furnished by test lab. |

| Item | Shielded | Ferrite Core | Length | Cable Type | Remarks |
|------|----------|--------------|--------|------------------------|-----------------------------|
| 1 | N/A | N/A | 1m | Power Cord | Supplied by test requester. |
| 2 | N/A | N/A | 1.7m | HDMI Cable | Furnished by test lab. |
| 3 | N/A | N/A | 0.18m | Type C to Type C Cable | Furnished by test lab. |

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

| Frequency (MHz) | Limit (dB μ V) | |
|-----------------|--------------------|-----------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value – Limit Value

Calculation example:

| | | | | |
|---------------|---|----------------|---|-------------------|
| Reading Level | | Correct Factor | | Measurement Value |
| 38.22 | + | 3.45 | = | 41.67 |

| | | | | |
|-------------------|---|-------------|---|--------------|
| Measurement Value | | Limit Value | | Margin Level |
| 41.67 | - | 60 | = | -18.33 |

The following table is the setting of the receiver.

| Receiver Parameter | Setting |
|--------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 KHz |

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).
 The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 The end of the cable will be terminated, using the correct terminating impedance.
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

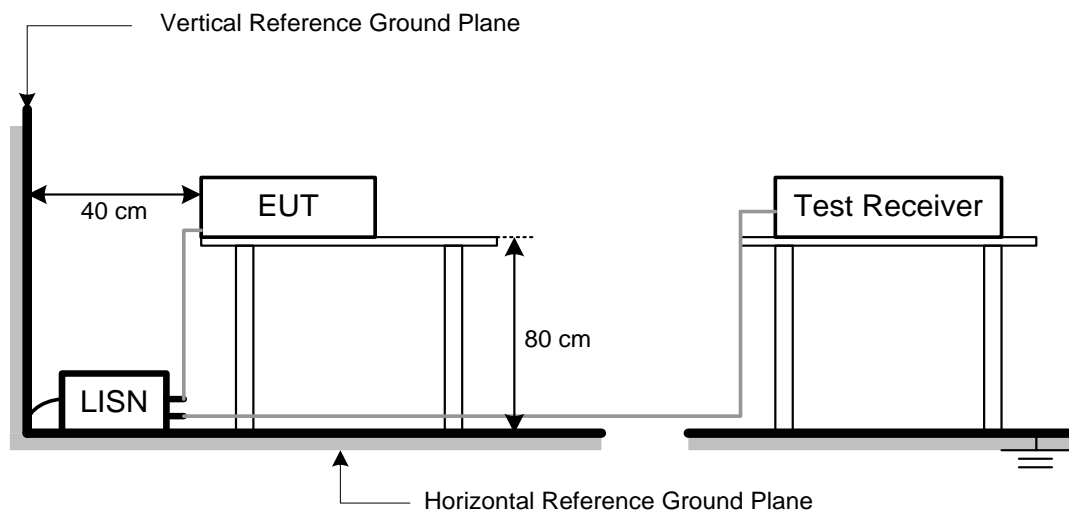
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
 BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 UNDESIRABLE EMISSIONS TEST

4.1 LIMIT

According to 15.407(b)(6) the limits are as follows:

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an E.I.R.P. of -27 dBm/MHz.

According to FCC KDB 987594 D02, clause G. Unwanted Emission Measurement:

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

| Item | Maximum E.I.R.P. Limit | Maximum field strength Limit @ 3m |
|---|------------------------|-----------------------------------|
| Any emissions outside of the 5.925-7.125 GHz band | Peak: -7 dBm/MHz | 88.2 dBuV/m |
| | Average: -27 dBm/MHz | 68.2 dBuV/m |

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

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(kHz) | 300 |
| 0.490~1.705 | 24000/F(kHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| 960~1000 | 500 | 3 |

According to 15.407(b)(9) the limits are as follows:

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

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(kHz) | 300 |
| 0.490~1.705 | 24000/F(kHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| 960~1000 | 500 | 3 |

NOTE:

(1) E.I.R.P. Limit (dBuV/m at 3m) = Power Limit(dBm) + 95.2. (Referring to FCC KDB 987594 D02, clause G.2.d)(iii))

(2) Emission level (dBuV/m) = 20log Emission level (uV/m).
3 m Emission level = 10 m Emission level + 20log(10 m/3 m).

(3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

| | | | | |
|---------------|---|----------------|---|-------------------|
| Reading Level | | Correct Factor | | Measurement Value |
| 19.11 | + | 2.11 | = | 21.22 |

| | | | | |
|-------------------|---|-------------|---|--------------|
| Measurement Value | | Limit Value | | Margin Level |
| 21.22 | - | 68.2 | = | -46.98 |

| Spectrum Parameter | Setting |
|--|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RBW / VBW (Emission in restricted band) | 1MHz / 3MHz for Peak, 1MHz / 1/T for Average |

| Spectrum Parameter | Setting |
|------------------------|-----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9KHz~90KHz for PK/AVG detector |
| Start ~ Stop Frequency | 90KHz~110KHz for QP detector |
| Start ~ Stop Frequency | 110KHz~490KHz for PK/AVG detector |
| Start ~ Stop Frequency | 490KHz~30MHz for QP detector |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector |

4.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause G. and FCC KDB 789033 D02, clause G. Unwanted Emission Measurement:

For measurements below 30 MHz:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

For measurements 30 MHz to 40 GHz:

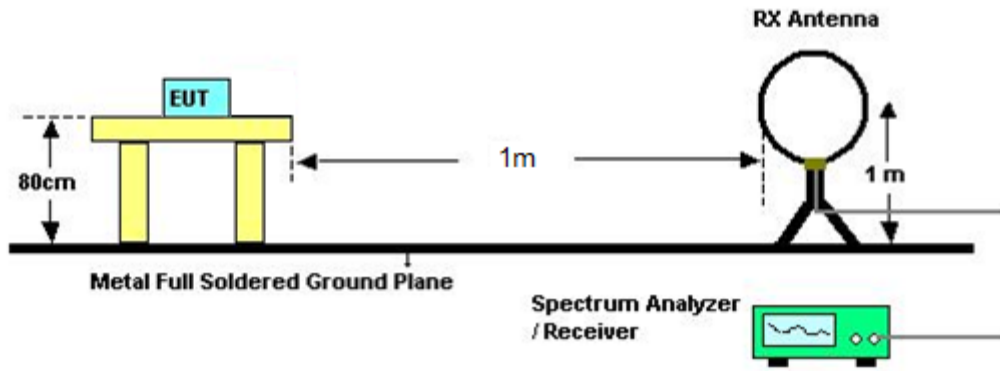
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (between 30 MHz to 1 GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (between 1 GHz to 40 GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (between 30 MHz to 1 GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (between 30 MHz to 1 GHz)

4.3 DEVIATION FROM TEST STANDARD

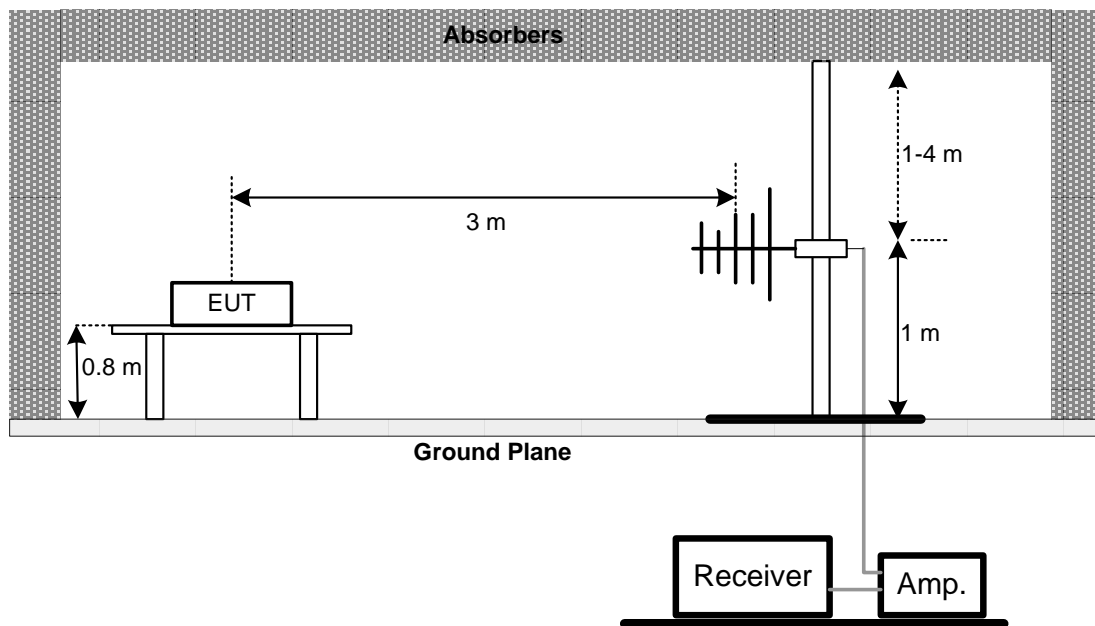
No deviation.

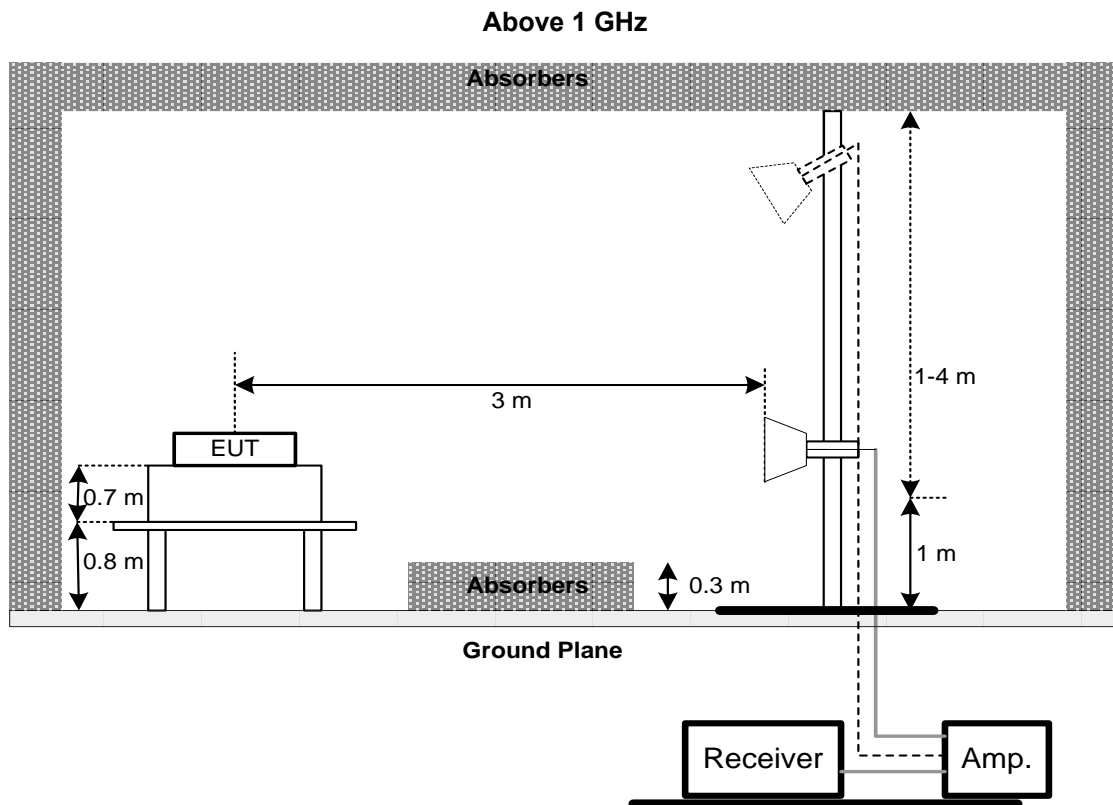
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

NOTE:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6 TEST RESULT – BELOW 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

- (1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

5 MAXIMUM E.I.R.P. TEST

5.1 LIMIT

| Equipment Category | Band | Maximum E.I.R.P. Limit |
|------------------------------------|---------------------------|------------------------|
| Indoor access point client devices | U-NII 5 (5.925-6.425 GHz) | 24 dBm |
| | U-NII 6 (6.425-6.525 GHz) | |
| | U-NII 7 (6.525-6.875 GHz) | |
| | U-NII 8 (6.875-7.125 GHz) | |

* For outdoor devices, 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).

According to 15.407(a)(11):

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

5.2 TEST PROCEDURE

Referring to FCC KDB 987594 D02, clause E. and FCC KDB 789033 D02, clause E. 3 Measurement using a Power Meter (PM):

- a. The maximum peak conducted output power was performed in accordance with method of clause E. 3.
- b) Method PM-G (Measurement using a gated RF average power meter):
Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Referring to FCC KDB 987594 D02, clause H. Measurement of emission at elevation angles higher than 30° from horizon:

Note: Elevation angle is defined as 0° is horizontal and 90° is straight-up.

For fixed infrastructure, not electrically or mechanically steerable beam antenna

- a. If elevation plane radiation pattern is available:
 - (i) Determine the device intended mounting elevation angle and define 0° reference angle on the elevation plane radiation pattern.
 - (ii) Indicate any radiation pattern between 30° and 90° which has the highest gain.
 - (iii) Calculate the EIRP based on this highest gain and conducted output power.
 - (iv) Compare to the 125 mW limit to establish compliance.
 - (v) Include the elevation pattern data in the application filing with the test report to show how the calculations are made.

Note: For MIMO devices, take the maximum gain of each antenna and apply the guidance in KDB Publication 662911 for calculating the overall gain including directional gain for the maximum EIRP calculation.
- b. If the elevation plane radiation pattern is not available, but the antenna type (such as dipole omnidirectional, Yagi, parabolic, or sector antenna) has a symmetrical elevation plane pattern referenced at the main beam and all lobes on the main beam elevation plane have highest gains, then the following measurement method is acceptable to determine compliance:
 - (i) Determine the device's intended mounting elevation angle referenced to the horizon.
 - (ii) Rotate the EUT antenna by 90° around the main beam axis in a horizontal position to transform the measurement in elevation angle into an azimuth angle and define a 0° reference angle based on the device's intended mounting elevation angle.
 - (iii) Move the test antenna along the horizontal arc, or rotate the turntable with the EUT antenna placed at the center, between 30° and 90° relative to the 0° reference angle, and then continuing down from 90° to 30° on the other side of the pattern, while maintaining the test antenna pointing with constant distance to the EUT antenna. Search for the spot which has the highest measured emission. Both horizontal and vertical polarization shall be investigated to determine the maximum radiated emission level.

Note: Moving the test antenna along the horizontal arc, or rotating the turntable, shall be performed in an angular step size as small as possible, but not larger than 3°.

- (iv) Calculate the EIRP based on the highest measured emission. Compare to the limit of 125 mW to determine compliance.
- (v) The antenna pattern measurements must be included in the filing.

For All Other Antenna Types

For all other antenna types (such as patch antennas, array antennas, antennas with irregular radiator shapes, etc.) which have any combination of following characteristics:

- Asymmetrical, complex radiation patterns
- 2-D or 3-D steerable beam
- Portable/mobile, not fixed infrastructure device

Provide the following information in the report:

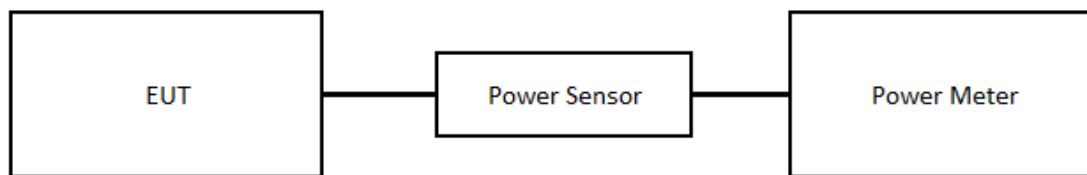
- a. Describe what type of antenna is used.
- b. Determine by calculation, measurement or simulation, all radiation lobes/beams, which have EIRP higher than 125 mW within a 3-dB elevation beamwidth.

Provide an explanation of how these antenna beams are controlled to be kept below the 30° elevation angle. The explanation should include device installation instructions, mechanical control, electro-mechanical control or software algorithms, if the beams are electrically controlled by software.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 LIST OF MEASURING EQUIPMENTS

| AC Power Line Conducted Emissions | | | | | | |
|-----------------------------------|----------------------|--------------|-----------------------------|------------|-----------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | TWO-LINE V-NETWORK | R&S | ENV216 | 101521 | 2022/9/28 | 2023/9/27 |
| 2 | Test Cable | EMCI | EMCCFD300-BM-BMR-5000 | 220331 | 2022/3/31 | 2023/3/30 |
| 3 | EMI Test Receiver | R&S | ESR 7 | 101433 | 2022/11/16 | 2023/11/15 |
| 4 | Measurement Software | EZ | EZ EMC (Version NB-03A1-01) | N/A | N/A | N/A |

| Radiated Emissions | | | | | | |
|--------------------|----------------------|-----------------|-----------------------------|-------------|-----------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Preamplifier | EMCI | EMC330N | 980850 | 2022/9/19 | 2023/9/18 |
| 2 | Preamplifier | EMCI | EMC118A45SE | 980819 | 2022/3/8 | 2023/3/7 |
| 3 | Preamplifier | EMCI | EMC184045SE | 980882 | 2022/2/9 | 2023/2/8 |
| 4 | Preamplifier | EMCI | EMC001340 | 980579 | 2022/9/30 | 2023/9/29 |
| 5 | Test Cable | EMCI | EMC104-SM-SM-1000 | 220319 | 2022/3/15 | 2023/3/14 |
| 6 | Test Cable | EMCI | EMC104-SM-SM-3000 | 220322 | 2022/3/15 | 2023/3/14 |
| 7 | Test Cable | EMCI | EMC104-SM-SM-7000 | 220324 | 2022/3/15 | 2023/3/14 |
| 8 | EXA Signal Analyzer | keysight | N9020B | MY57120120 | 2022/3/7 | 2023/3/6 |
| 9 | Loop Ant | Electro-Metrics | EMCI-LPA600 | 291 | 2022/9/19 | 2023/9/18 |
| 10 | Horn Antenna | RFSPIN | DRH18-E | 211202A18EN | 2022/5/18 | 2023/5/17 |
| 11 | Horn Ant | Schwarzbeck | BBHA 9170D | 1136 | 2022/5/18 | 2023/5/17 |
| 12 | Log-bicon Antenna | Schwarzbeck | VULB9168 | 1369 | 2022/5/20 | 2023/5/19 |
| 13 | 6dB Attenuator | EMCI | EMCI-N-6-06 | AT-N0625 | 2022/5/20 | 2023/5/19 |
| 14 | Test Cable | EMCI | EMC101G-KM-KM-3000 | 220329 | 2022/3/15 | 2023/3/14 |
| 15 | Test Cable | EMCI | EMC102-KM-KM-1000 | 220327 | 2022/3/15 | 2023/3/14 |
| 16 | Measurement Software | EZ | EZ EMC (Version NB-03A1-01) | N/A | N/A | N/A |

| Maximum E.I.R.P. | | | | | | |
|------------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1 | Power Meter | Anritsu | ML2495A | 1128008 | 2022/6/1 | 2023/5/31 |
| 2 | Power Sensor | Anritsu | MA2411B | 1126001 | 2022/6/1 | 2023/5/31 |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

7 EUT TEST PHOTO

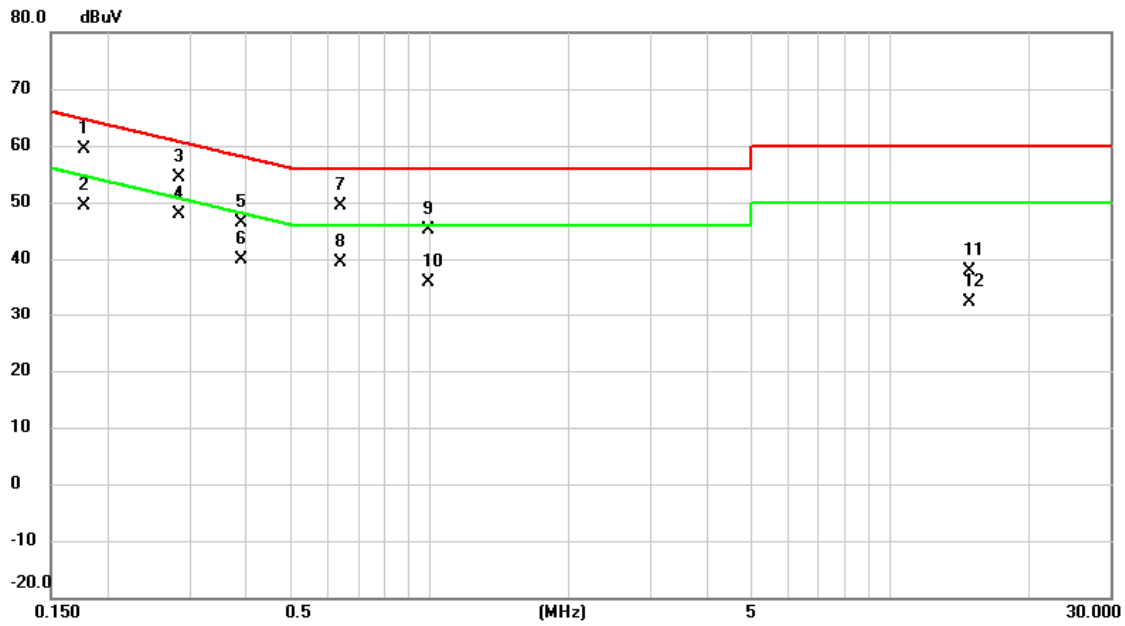
Please refer to document Appendix No.: TP-2212C001-1 (APPENDIX-TEST PHOTOS).

8 EUT PHOTOS

Please refer to document Appendix No.: EP-2212C001-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

| | | | |
|----------------|--------|-------------|----------|
| Test Mode | Normal | Tested Date | 2023/1/6 |
| Test Frequency | - | Phase | Line |

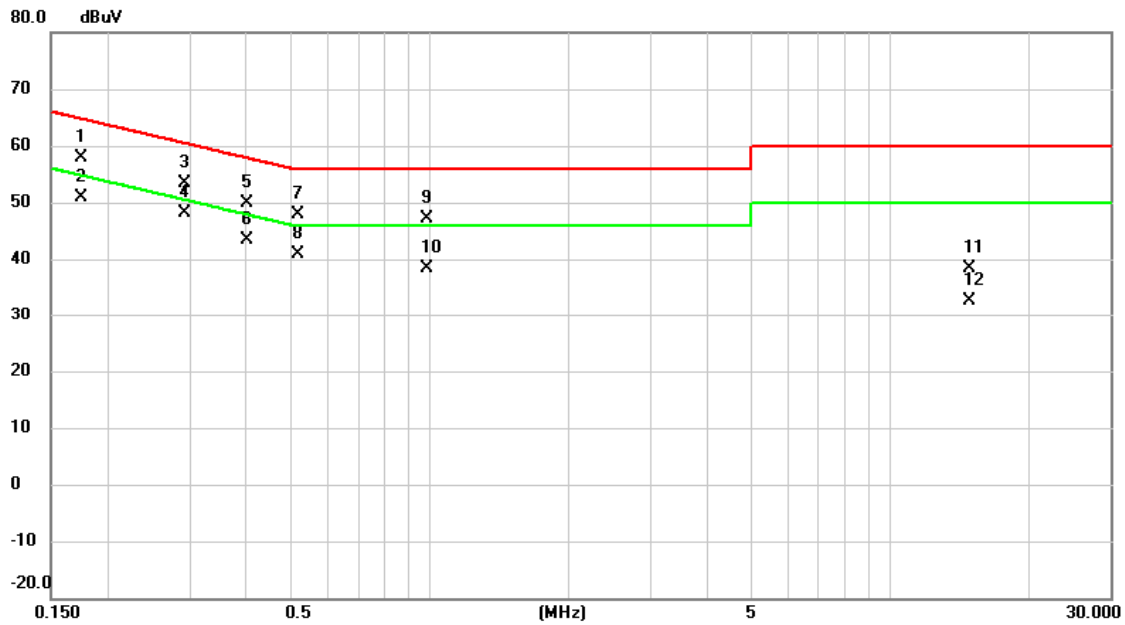


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.1770 | 49.65 | 9.63 | 59.28 | 64.63 | -5.35 | QP | |
| 2 | | 0.1770 | 39.72 | 9.63 | 49.35 | 54.63 | -5.28 | AVG | |
| 3 | | 0.2850 | 44.70 | 9.63 | 54.33 | 60.67 | -6.34 | QP | |
| 4 | * | 0.2850 | 38.24 | 9.63 | 47.87 | 50.67 | -2.80 | AVG | |
| 5 | | 0.3907 | 36.82 | 9.63 | 46.45 | 58.05 | -11.60 | QP | |
| 6 | | 0.3907 | 30.37 | 9.63 | 40.00 | 48.05 | -8.05 | AVG | |
| 7 | | 0.6405 | 39.69 | 9.64 | 49.33 | 56.00 | -6.67 | QP | |
| 8 | | 0.6405 | 29.65 | 9.64 | 39.29 | 46.00 | -6.71 | AVG | |
| 9 | | 0.9960 | 35.34 | 9.67 | 45.01 | 56.00 | -10.99 | QP | |
| 10 | | 0.9960 | 26.10 | 9.67 | 35.77 | 46.00 | -10.23 | AVG | |
| 11 | | 14.8830 | 27.99 | 9.89 | 37.88 | 60.00 | -22.12 | QP | |
| 12 | | 14.8830 | 22.40 | 9.89 | 32.29 | 50.00 | -17.71 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|--------|-------------|----------|
| Test Mode | Normal | Tested Date | 2023/1/6 |
| Test Frequency | - | Phase | Neutral |

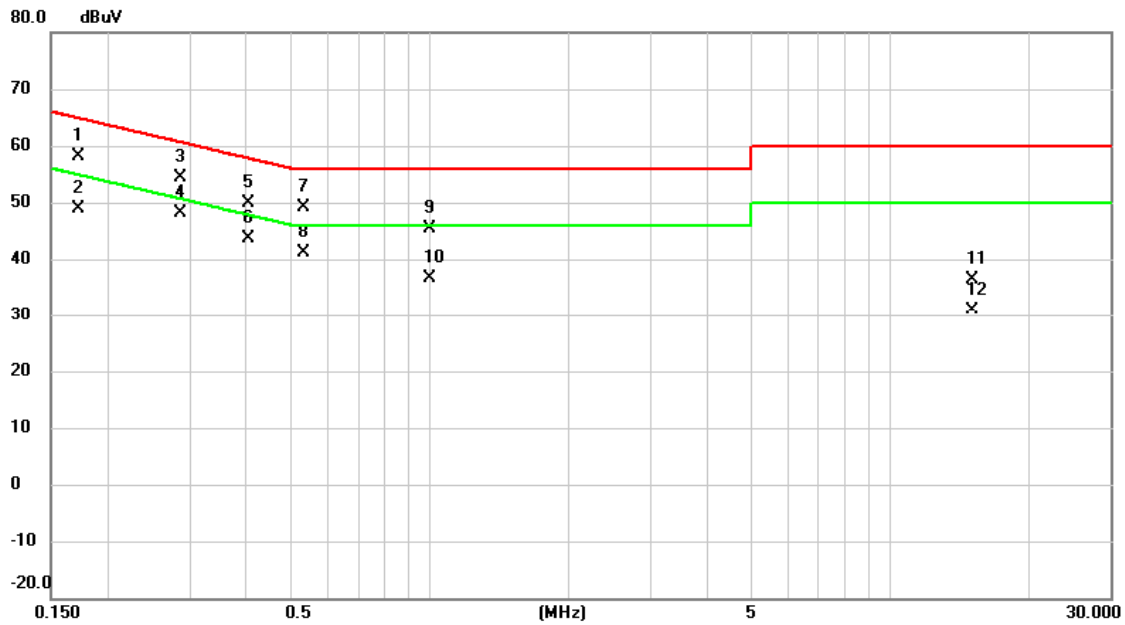


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.1748 | 48.22 | 9.65 | 57.87 | 64.73 | -6.86 | QP | |
| 2 | | 0.1748 | 41.29 | 9.65 | 50.94 | 54.73 | -3.79 | AVG | |
| 3 | | 0.2917 | 43.65 | 9.64 | 53.29 | 60.48 | -7.19 | QP | |
| 4 | * | 0.2917 | 38.42 | 9.64 | 48.06 | 50.48 | -2.42 | AVG | |
| 5 | | 0.4020 | 40.26 | 9.64 | 49.90 | 57.81 | -7.91 | QP | |
| 6 | | 0.4020 | 33.83 | 9.64 | 43.47 | 47.81 | -4.34 | AVG | |
| 7 | | 0.5167 | 38.22 | 9.64 | 47.86 | 56.00 | -8.14 | QP | |
| 8 | | 0.5167 | 31.16 | 9.64 | 40.80 | 46.00 | -5.20 | AVG | |
| 9 | | 0.9870 | 37.34 | 9.68 | 47.02 | 56.00 | -8.98 | QP | |
| 10 | | 0.9870 | 28.65 | 9.68 | 38.33 | 46.00 | -7.67 | AVG | |
| 11 | | 14.8853 | 28.53 | 9.97 | 38.50 | 60.00 | -21.50 | QP | |
| 12 | | 14.8853 | 22.73 | 9.97 | 32.70 | 50.00 | -17.30 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|------|-------------|----------|
| Test Mode | Idle | Tested Date | 2023/1/6 |
| Test Frequency | - | Phase | Line |

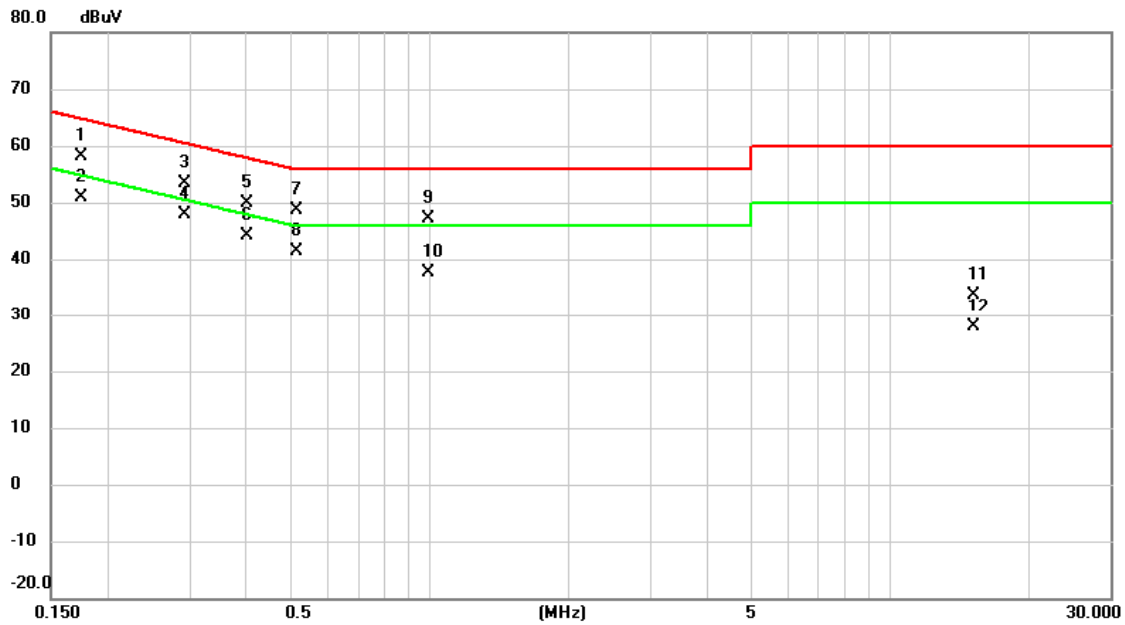


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.1725 | 48.52 | 9.64 | 58.16 | 64.84 | -6.68 | QP | |
| 2 | | 0.1725 | 39.22 | 9.64 | 48.86 | 54.84 | -5.98 | AVG | |
| 3 | | 0.2872 | 44.76 | 9.63 | 54.39 | 60.60 | -6.21 | QP | |
| 4 | * | 0.2872 | 38.54 | 9.63 | 48.17 | 50.60 | -2.43 | AVG | |
| 5 | | 0.4042 | 40.28 | 9.63 | 49.91 | 57.77 | -7.86 | QP | |
| 6 | | 0.4042 | 33.88 | 9.63 | 43.51 | 47.77 | -4.26 | AVG | |
| 7 | | 0.5325 | 39.43 | 9.63 | 49.06 | 56.00 | -6.94 | QP | |
| 8 | | 0.5325 | 31.52 | 9.63 | 41.15 | 46.00 | -4.85 | AVG | |
| 9 | | 1.0005 | 35.62 | 9.67 | 45.29 | 56.00 | -10.71 | QP | |
| 10 | | 1.0005 | 27.04 | 9.67 | 36.71 | 46.00 | -9.29 | AVG | |
| 11 | | 15.0833 | 26.54 | 9.90 | 36.44 | 60.00 | -23.56 | QP | |
| 12 | | 15.0833 | 20.95 | 9.90 | 30.85 | 50.00 | -19.15 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|------|-------------|----------|
| Test Mode | Idle | Tested Date | 2023/1/6 |
| Test Frequency | - | Phase | Neutral |



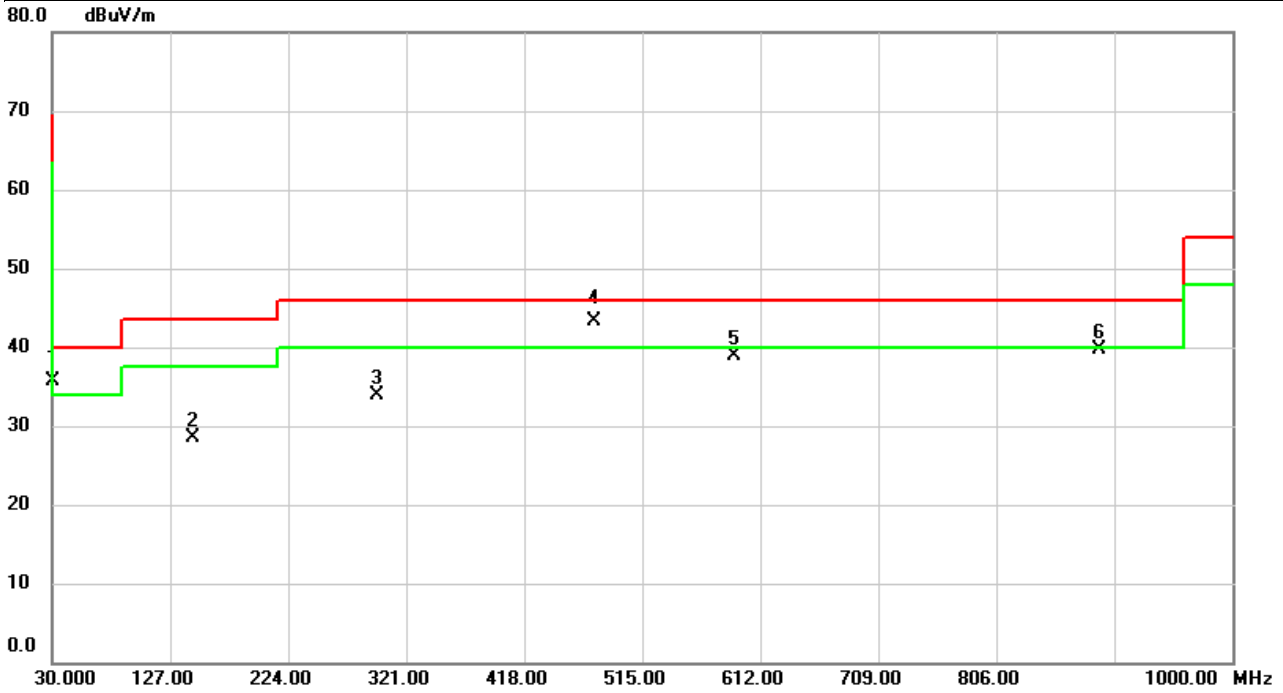
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|-----------|--------------------|-------------------|------------------|------------|-----------|----------|---------|
| 1 | | 0.1748 | 48.52 | 9.65 | 58.17 | 64.73 | -6.56 | QP | |
| 2 | | 0.1748 | 41.23 | 9.65 | 50.88 | 54.73 | -3.85 | AVG | |
| 3 | | 0.2917 | 43.65 | 9.64 | 53.29 | 60.48 | -7.19 | QP | |
| 4 | * | 0.2917 | 38.19 | 9.64 | 47.83 | 50.48 | -2.65 | AVG | |
| 5 | | 0.4020 | 40.23 | 9.64 | 49.87 | 57.81 | -7.94 | QP | |
| 6 | | 0.4020 | 34.52 | 9.64 | 44.16 | 47.81 | -3.65 | AVG | |
| 7 | | 0.5144 | 38.91 | 9.64 | 48.55 | 56.00 | -7.45 | QP | |
| 8 | | 0.5144 | 31.62 | 9.64 | 41.26 | 46.00 | -4.74 | AVG | |
| 9 | | 0.9892 | 37.42 | 9.68 | 47.10 | 56.00 | -8.90 | QP | |
| 10 | | 0.9892 | 28.06 | 9.68 | 37.74 | 46.00 | -8.26 | AVG | |
| 11 | | 15.1463 | 23.61 | 9.98 | 33.59 | 60.00 | -26.41 | QP | |
| 12 | | 15.1463 | 17.83 | 9.98 | 27.81 | 50.00 | -22.19 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX B UNDESIRABLE EMISSIONS - 30 MHZ TO 1 GHZ

| | | | |
|----------------|----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE20) | Test Date | 2023/1/5 |
| Test Frequency | 7115MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

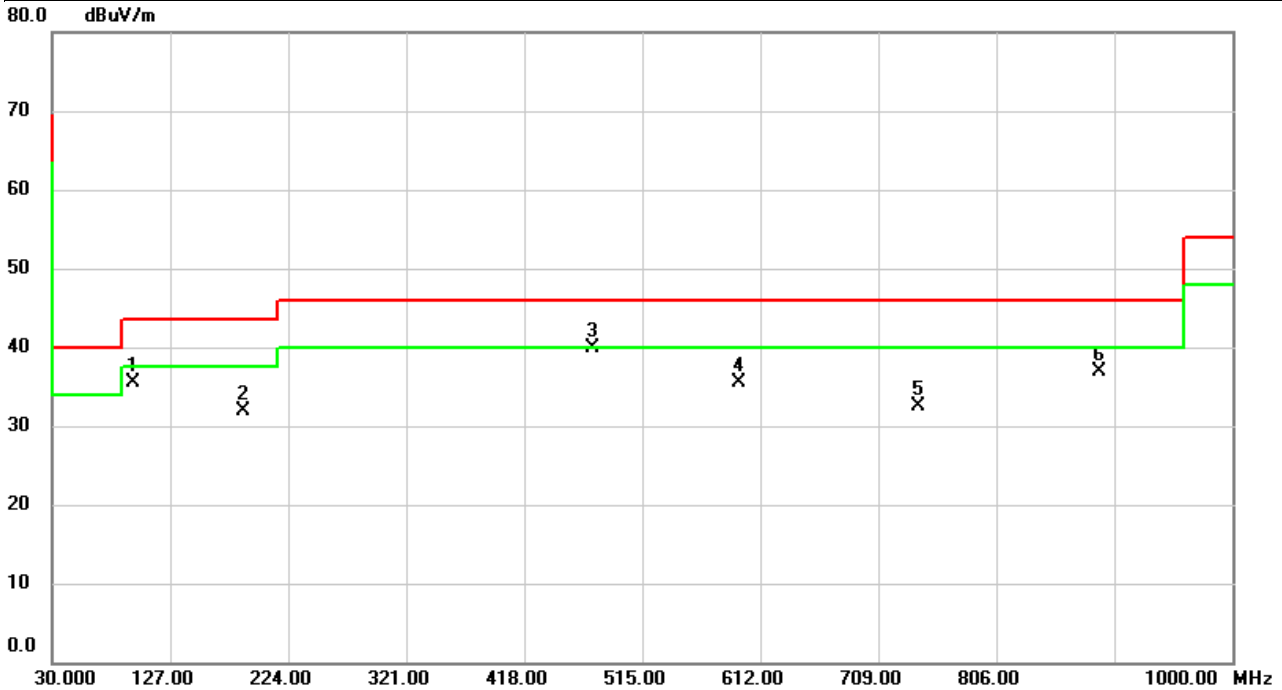


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | ! | 31.1640 | 48.49 | -12.72 | 35.77 | 40.00 | -4.23 | QP | |
| 2 | | 145.8503 | 40.51 | -12.09 | 28.42 | 43.50 | -15.08 | peak | |
| 3 | | 297.0087 | 45.40 | -11.51 | 33.89 | 46.00 | -12.11 | peak | |
| 4 | * | 475.6755 | 50.15 | -6.94 | 43.21 | 46.00 | -2.79 | QP | |
| 5 | | 590.8540 | 43.32 | -4.44 | 38.88 | 46.00 | -7.12 | peak | |
| 6 | | 891.0043 | 39.83 | -0.04 | 39.79 | 46.00 | -6.21 | peak | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|----------------------|--------------|------------|
| Test Mode | IEEE 802.11ax (HE20) | Test Date | 2023/1/5 |
| Test Frequency | 7115MHz | Polarization | Horizontal |
| Temp | 23°C | Hum. | 59% |



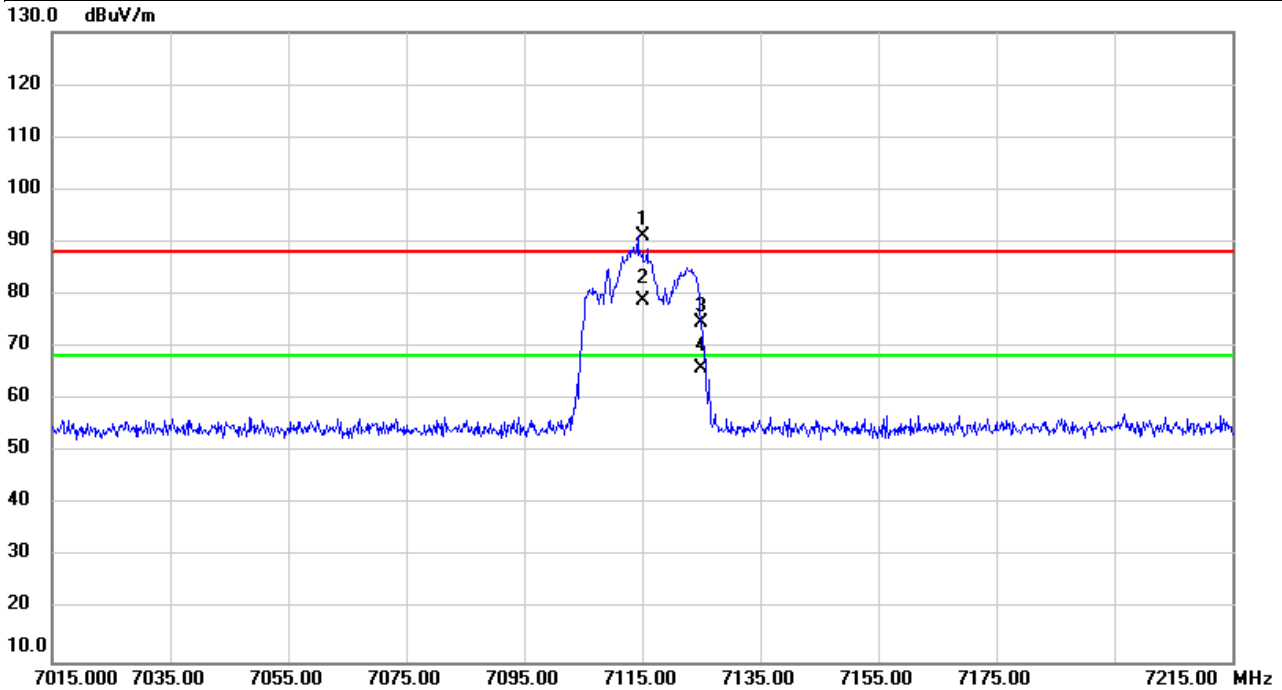
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 96.0570 | 52.29 | -16.81 | 35.48 | 43.50 | -8.02 | peak | |
| 2 | | 187.4957 | 46.20 | -14.28 | 31.92 | 43.50 | -11.58 | peak | |
| 3 | * | 474.7450 | 46.89 | -6.97 | 39.92 | 46.00 | -6.08 | peak | |
| 4 | | 594.0550 | 39.91 | -4.33 | 35.58 | 46.00 | -10.42 | peak | |
| 5 | | 742.4973 | 34.34 | -1.74 | 32.60 | 46.00 | -13.40 | peak | |
| 6 | | 891.0367 | 36.88 | -0.04 | 36.84 | 46.00 | -9.16 | peak | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C UNDESIRABLE EMISSIONS - ABOVE 1 GHZ

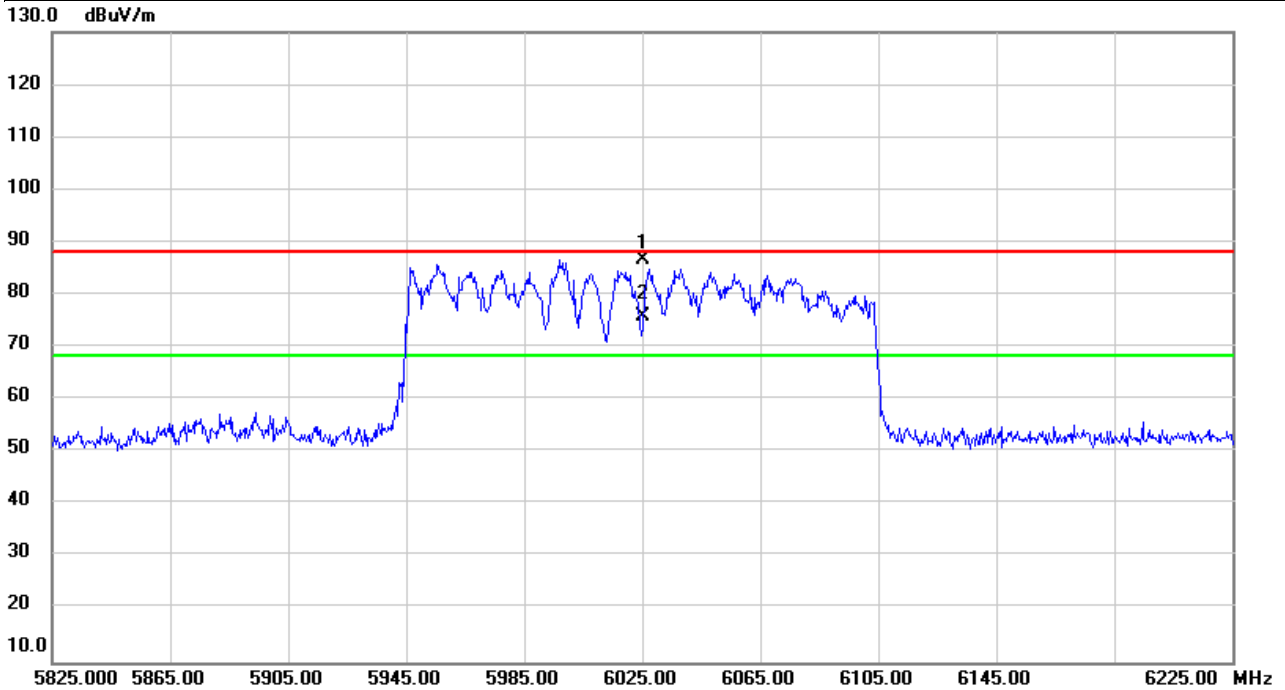
| | | | |
|----------------|----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE20) | Test Date | 2023/2/1 |
| Test Frequency | 7115MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | X | 7115.000 | 85.64 | 5.51 | 91.15 | 88.20 | 2.95 | peak | NoLimit |
| 2 | * | 7115.000 | 73.38 | 5.51 | 78.89 | 68.20 | 10.69 | AVG | NoLimit |
| 3 | | 7125.000 | 69.13 | 5.52 | 74.65 | 88.20 | -13.55 | peak | |
| 4 | | 7125.000 | 60.31 | 5.52 | 65.83 | 68.20 | -2.37 | AVG | |

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6025MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

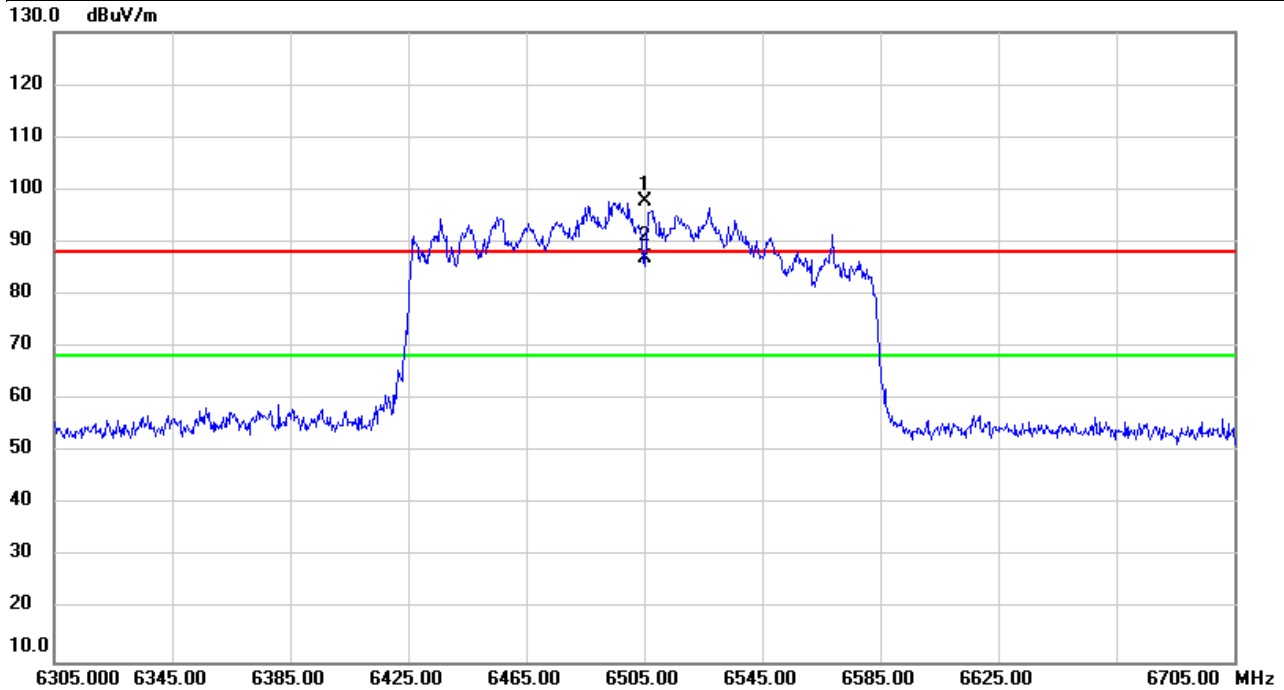


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|-------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 6025.000 | 83.98 | 2.62 | 86.60 | 88.20 | -1.60 | peak | NoLimit |
| 2 | * | 6025.000 | 73.14 | 2.62 | 75.76 | 68.20 | 7.56 | AVG | NoLimit |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6505MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

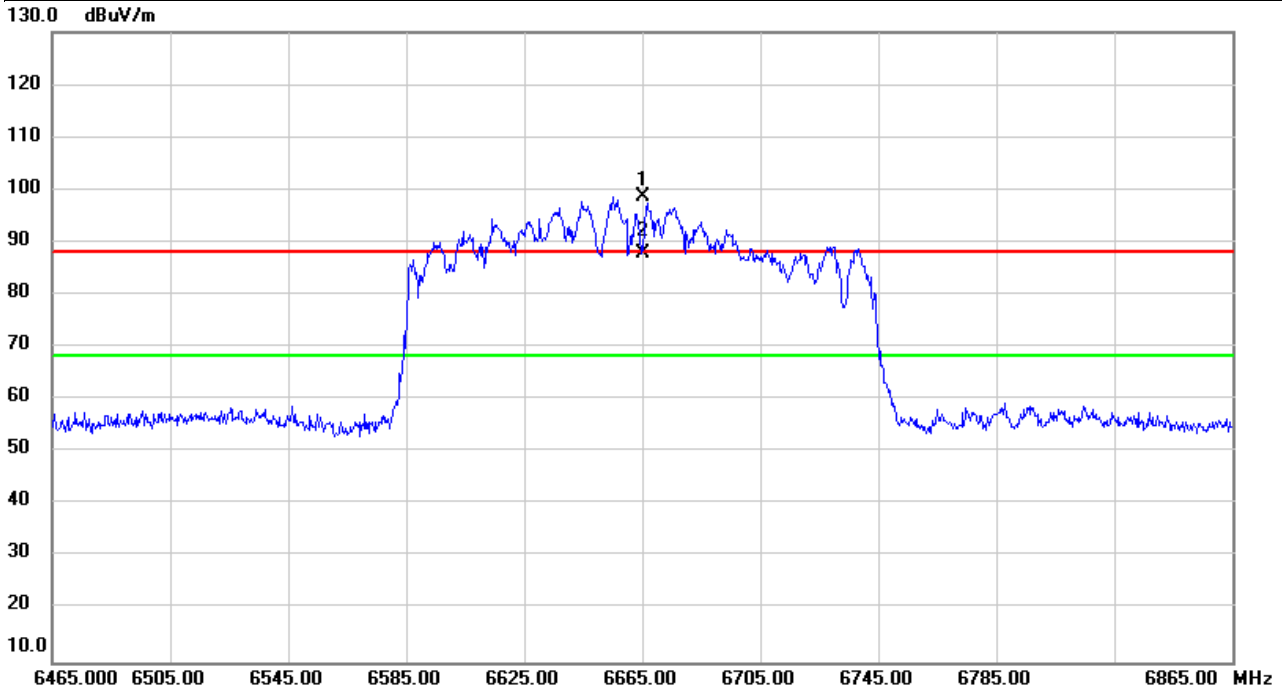


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|-------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | X | 6505.000 | 92.57 | 5.05 | 97.62 | 88.20 | 9.42 | peak | NoLimit |
| 2 | * | 6505.000 | 82.01 | 5.05 | 87.06 | 68.20 | 18.86 | AVG | NoLimit |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6665MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

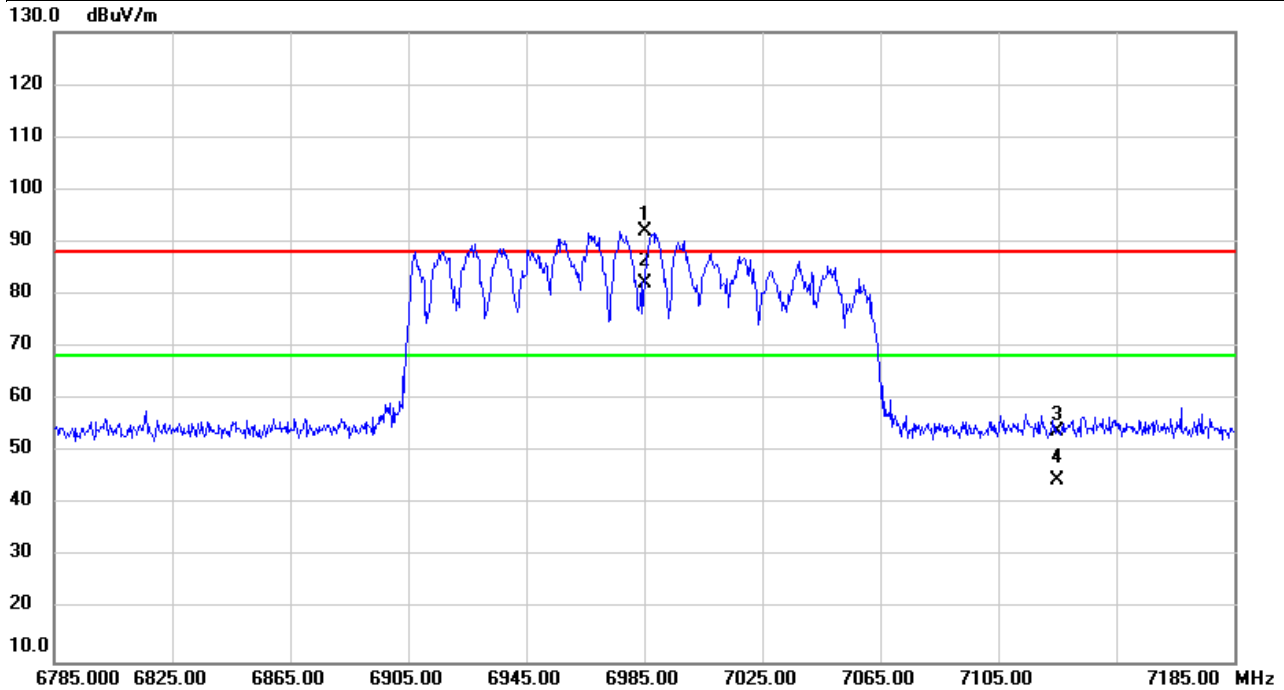


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|-------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | X | 6665.000 | 93.56 | 5.19 | 98.75 | 88.20 | 10.55 | peak | NoLimit |
| 2 | * | 6665.000 | 82.52 | 5.19 | 87.71 | 68.20 | 19.51 | AVG | NoLimit |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6985MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

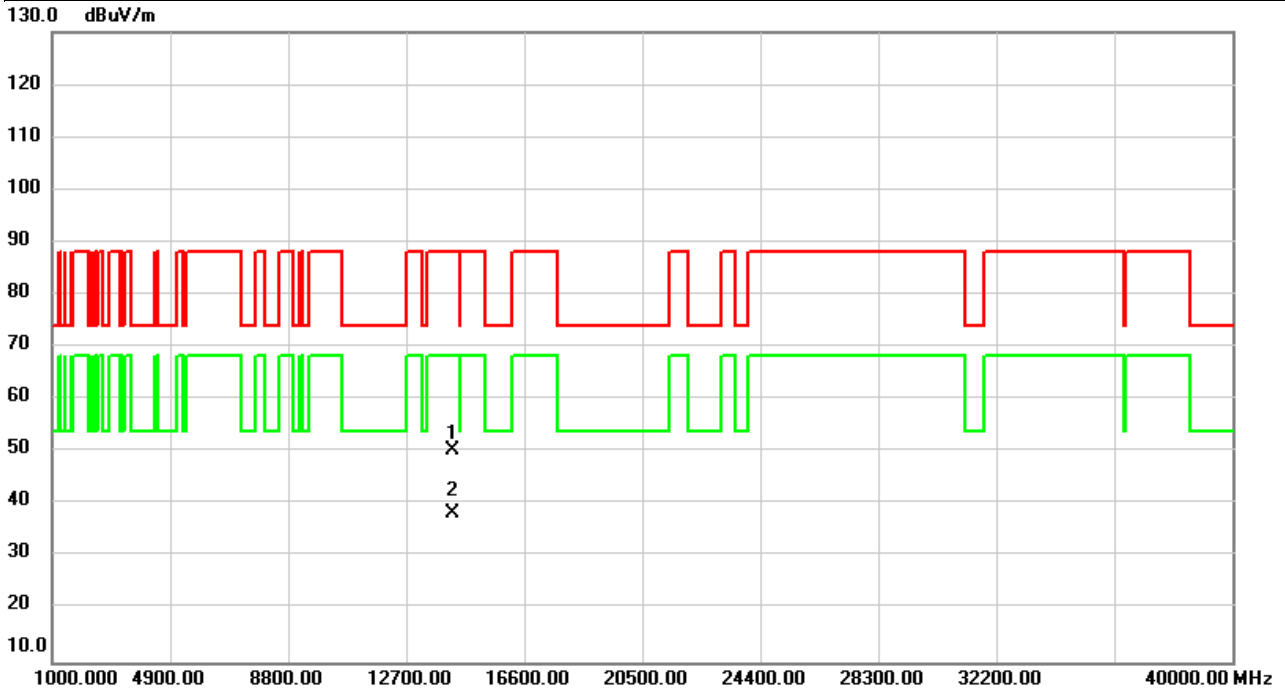


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | X | 6985.000 | 86.48 | 5.47 | 91.95 | 88.20 | 3.75 | peak | NoLimit |
| 2 | * | 6985.000 | 76.63 | 5.47 | 82.10 | 68.20 | 13.90 | AVG | NoLimit |
| 3 | | 7125.000 | 48.51 | 5.52 | 54.03 | 88.20 | -34.17 | peak | |
| 4 | | 7125.000 | 39.13 | 5.52 | 44.65 | 68.20 | -23.55 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE20) | Test Date | 2023/2/1 |
| Test Frequency | 7115MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

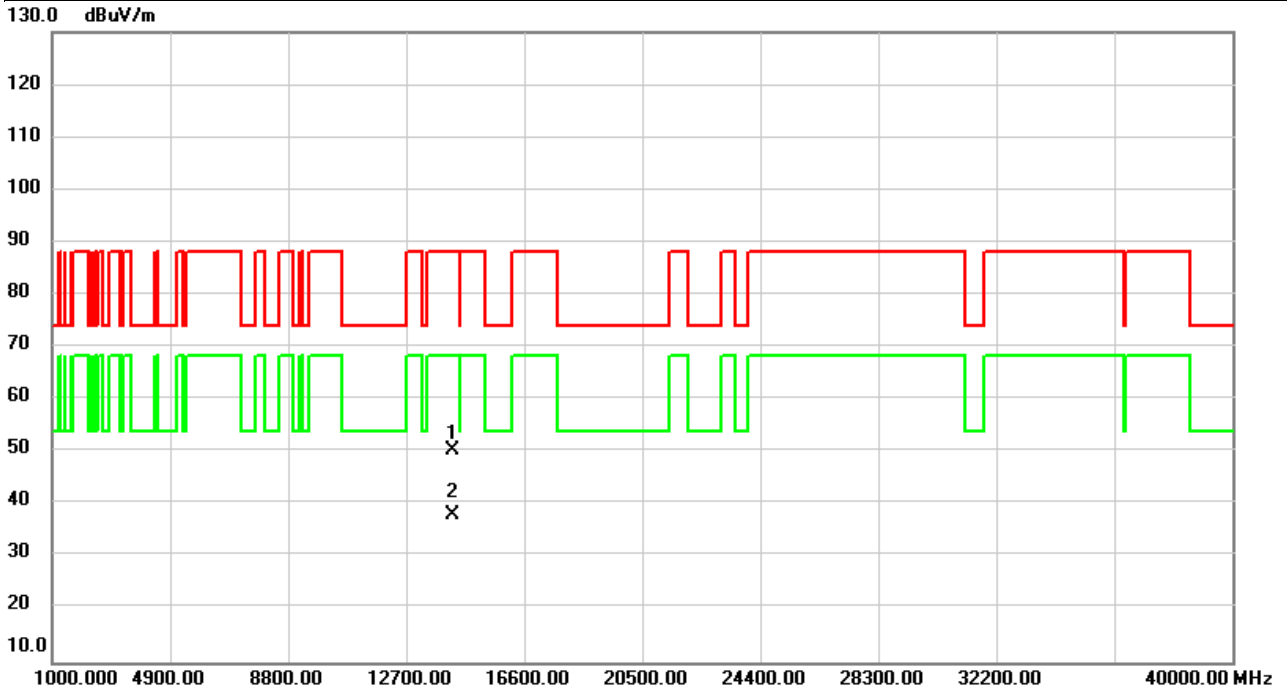


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 14230.00 | 43.20 | 7.24 | 50.44 | 88.20 | -37.76 | peak | |
| 2 | * | 14230.00 | 31.24 | 7.24 | 38.48 | 68.20 | -29.72 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|----------------------|--------------|------------|
| Test Mode | IEEE 802.11ax (HE20) | Test Date | 2023/2/1 |
| Test Frequency | 7115MHz | Polarization | Horizontal |
| Temp | 23°C | Hum. | 59% |

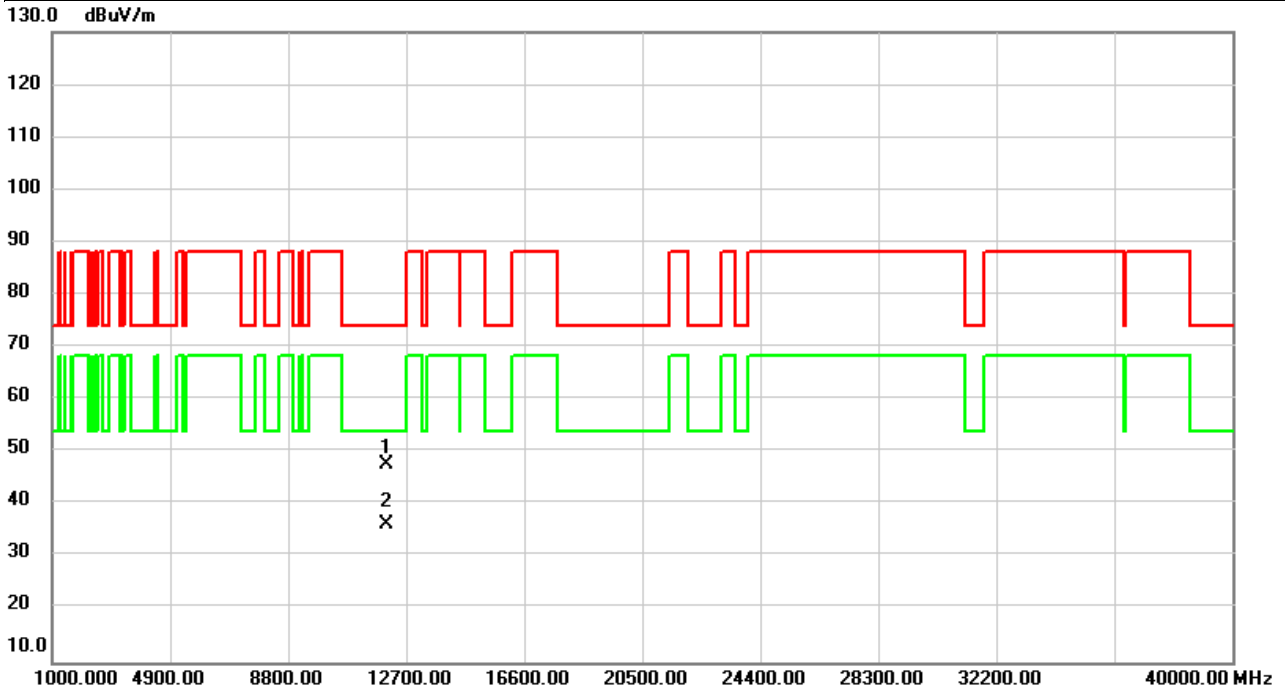


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 14230.00 | 43.08 | 7.24 | 50.32 | 88.20 | -37.88 | peak | |
| 2 | * | 14230.00 | 30.68 | 7.24 | 37.92 | 68.20 | -30.28 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6025MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

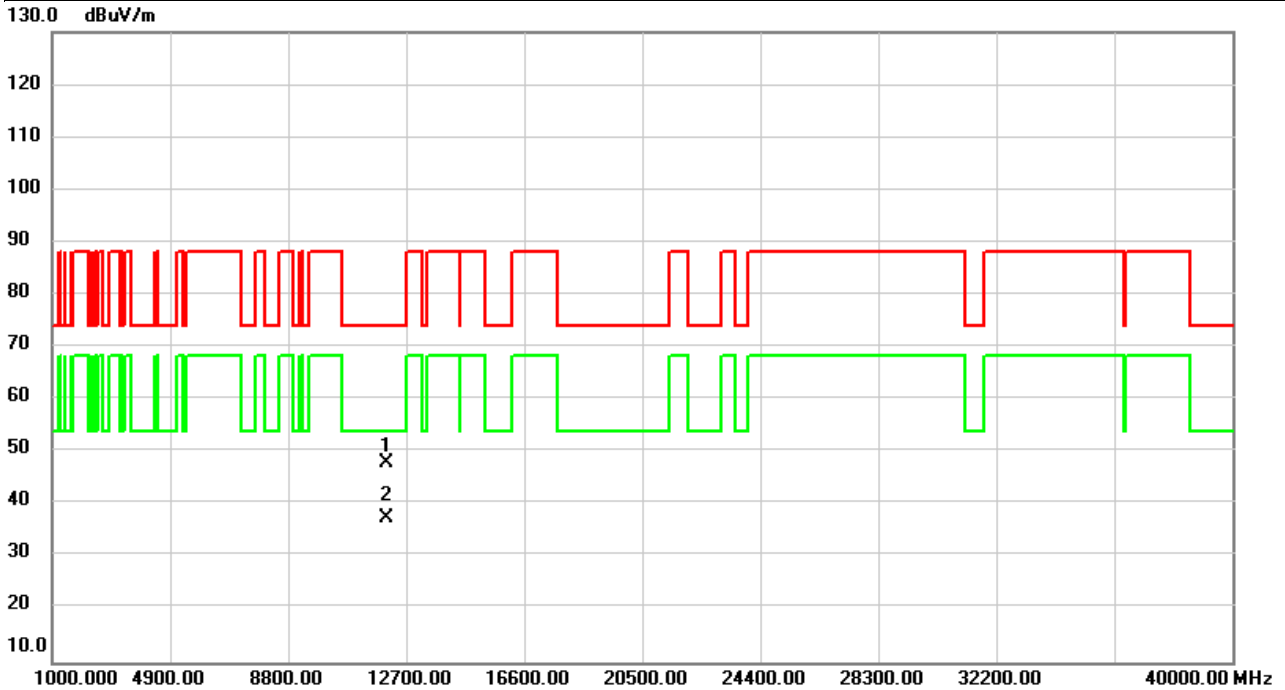


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 12050.00 | 40.91 | 6.66 | 47.57 | 74.00 | -26.43 | peak | |
| 2 | * | 12050.00 | 29.55 | 6.66 | 36.21 | 54.00 | -17.79 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|------------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6025MHz | Polarization | Horizontal |
| Temp | 23°C | Hum. | 59% |

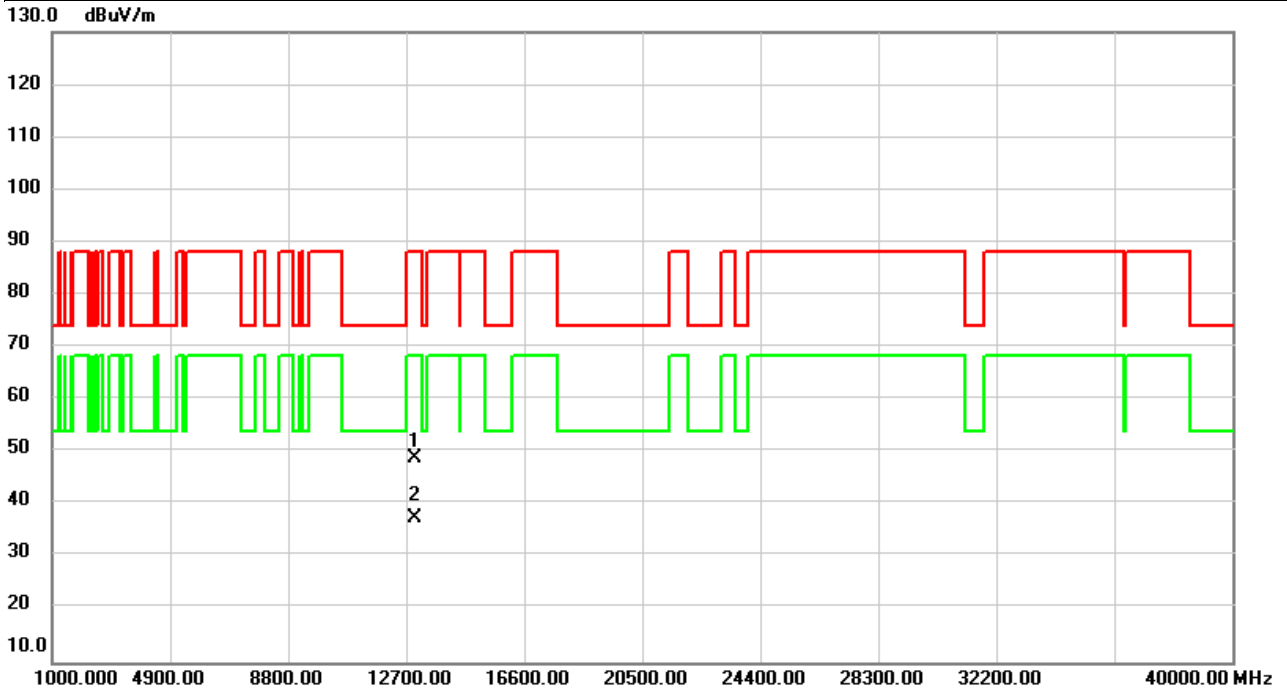


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 12050.00 | 41.19 | 6.66 | 47.85 | 74.00 | -26.15 | peak | |
| 2 | * | 12050.00 | 30.71 | 6.66 | 37.37 | 54.00 | -16.63 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6505MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

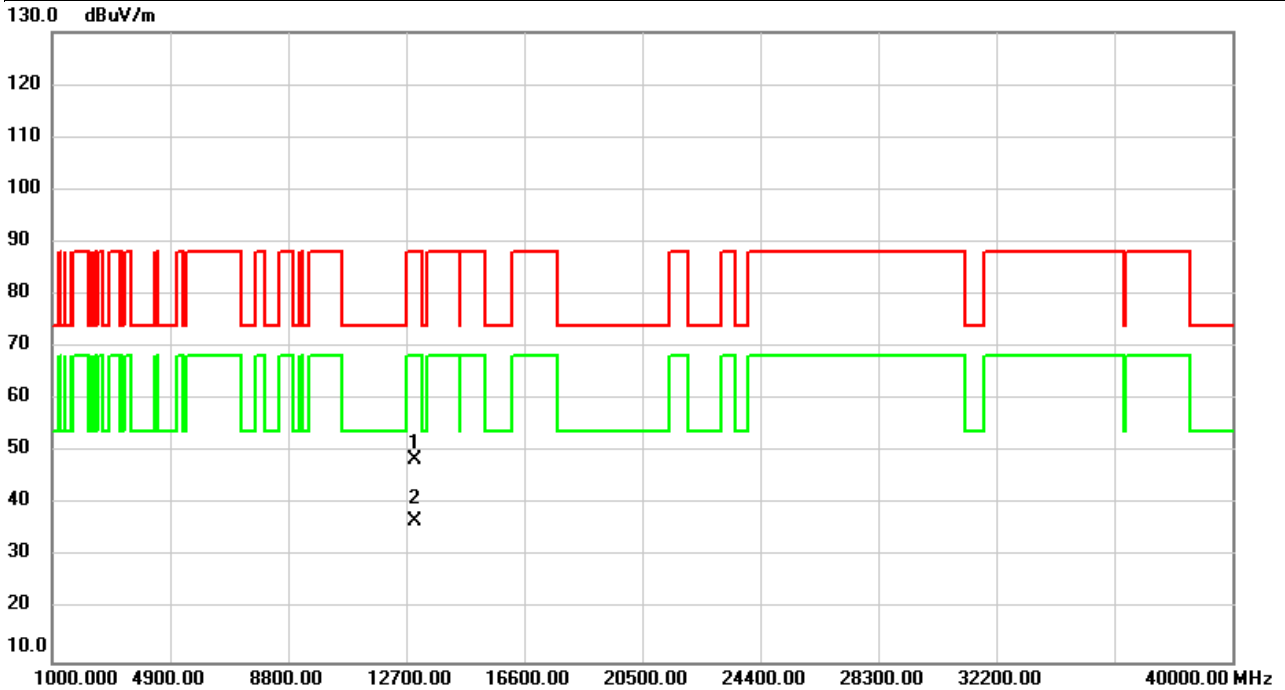


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 13010.00 | 41.16 | 7.66 | 48.82 | 88.20 | -39.38 | peak | |
| 2 | * | 13010.00 | 29.86 | 7.66 | 37.52 | 68.20 | -30.68 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|------------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6505MHz | Polarization | Horizontal |
| Temp | 23°C | Hum. | 59% |

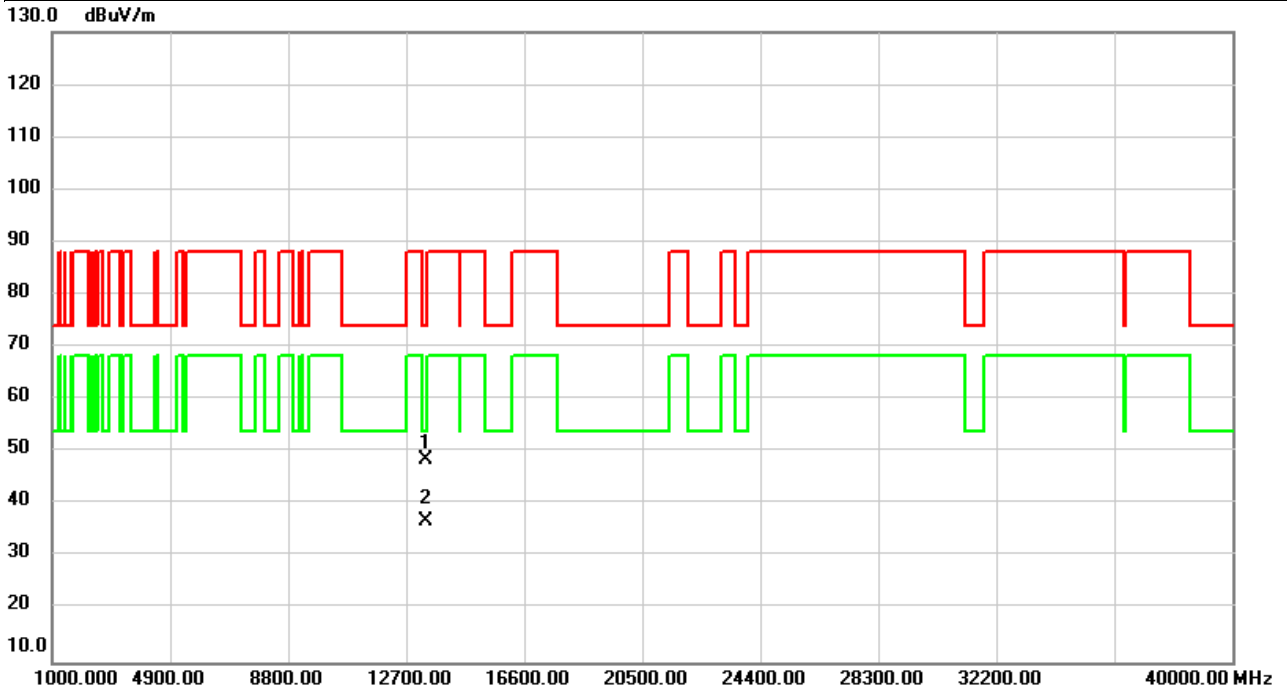


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 13010.00 | 40.90 | 7.66 | 48.56 | 88.20 | -39.64 | peak | |
| 2 | * | 13010.00 | 29.13 | 7.66 | 36.79 | 68.20 | -31.41 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6665MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

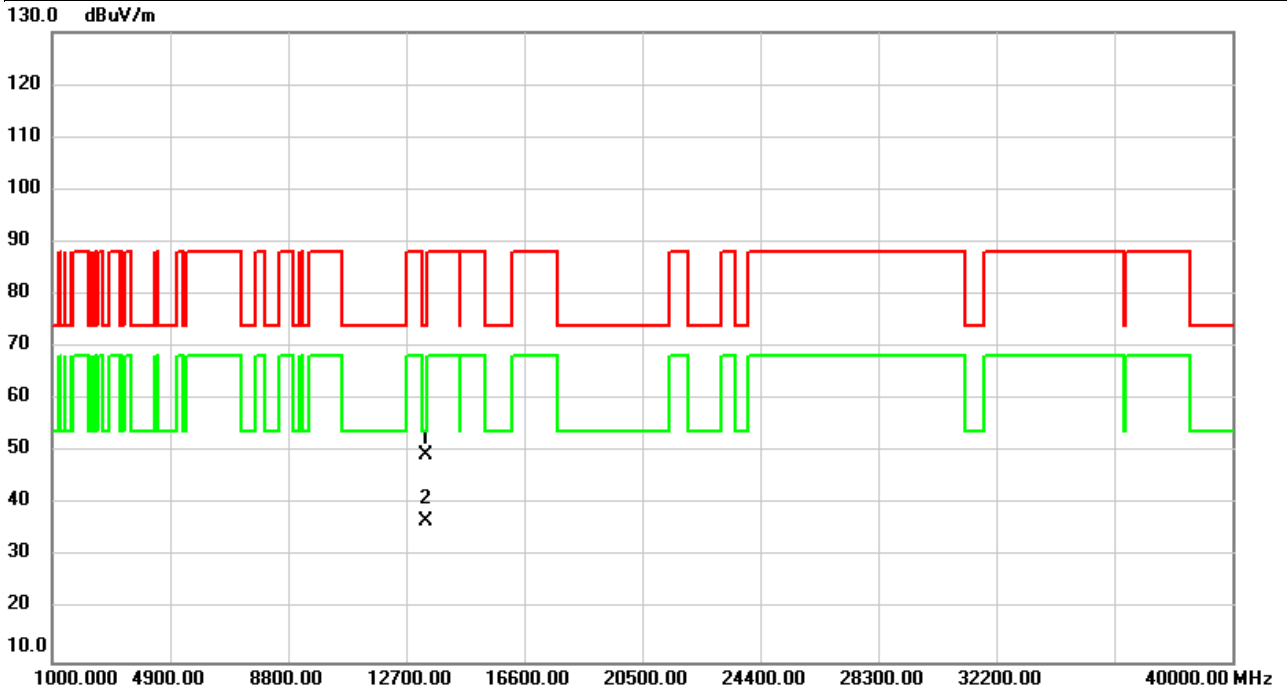


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 13330.00 | 41.30 | 7.23 | 48.53 | 74.00 | -25.47 | peak | |
| 2 | * | 13330.00 | 29.60 | 7.23 | 36.83 | 54.00 | -17.17 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|------------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6665MHz | Polarization | Horizontal |
| Temp | 23°C | Hum. | 59% |

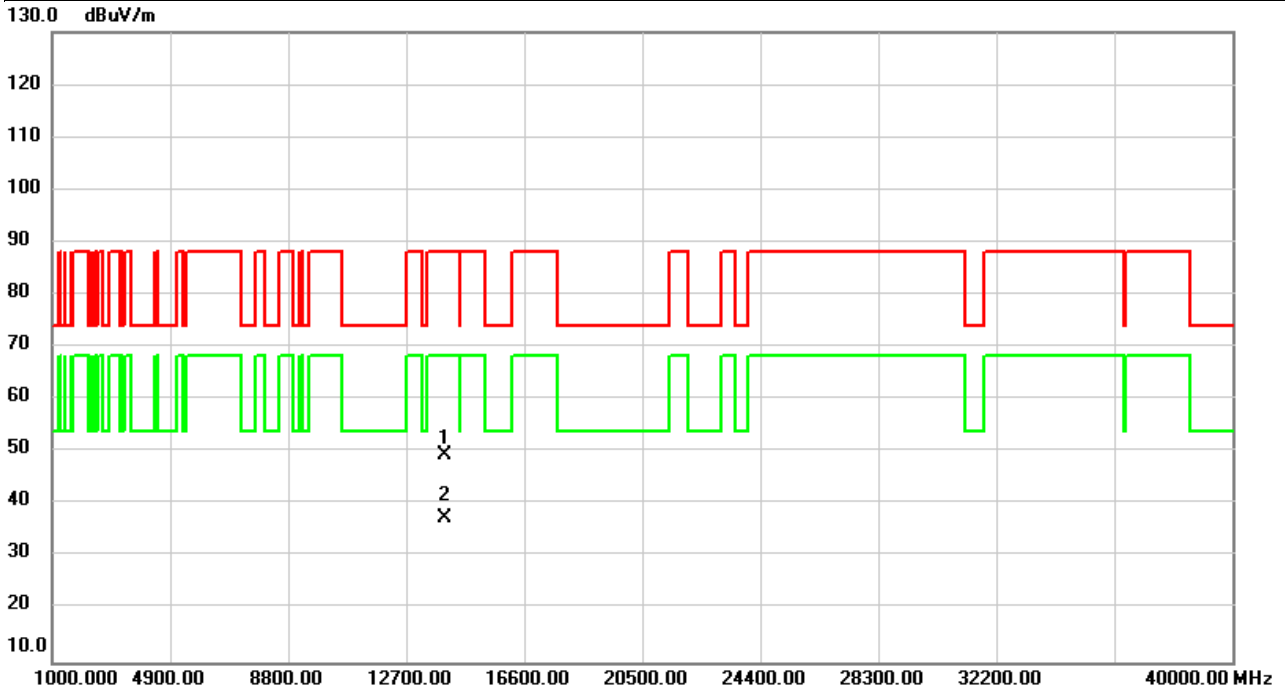


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 13330.00 | 42.23 | 7.23 | 49.46 | 74.00 | -24.54 | peak | |
| 2 | * | 13330.00 | 29.69 | 7.23 | 36.92 | 54.00 | -17.08 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|----------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6985MHz | Polarization | Vertical |
| Temp | 23°C | Hum. | 59% |

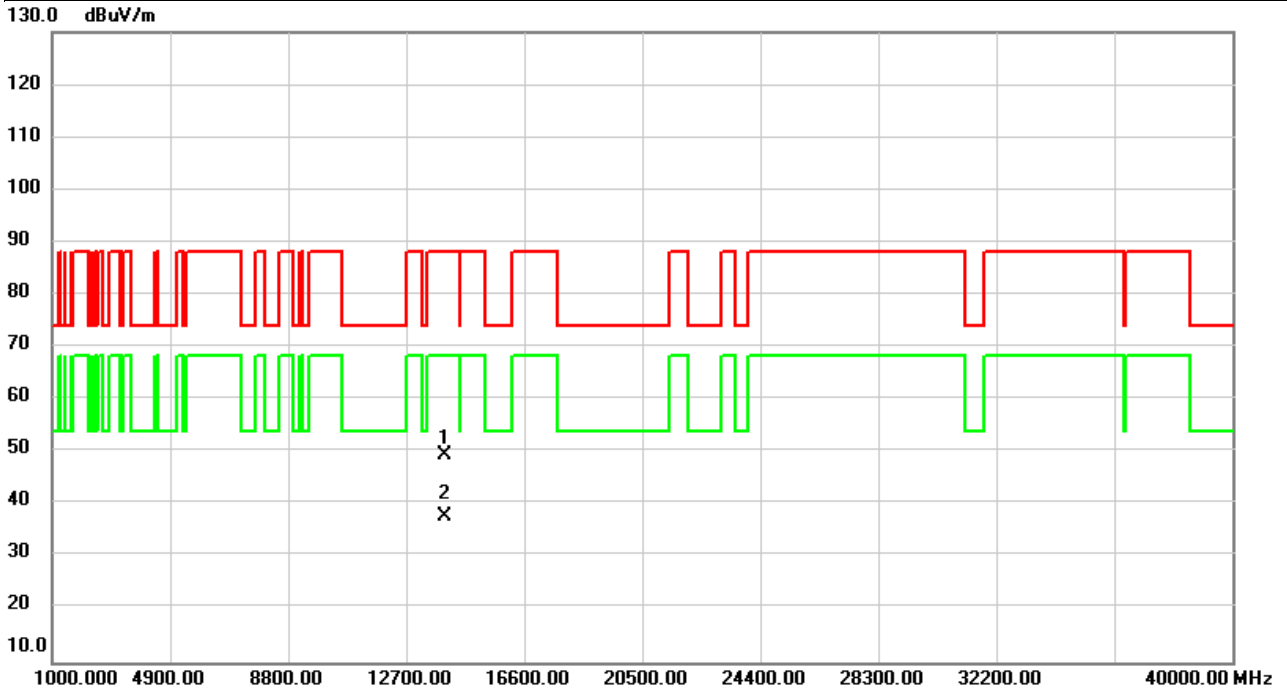


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 13970.00 | 42.22 | 7.22 | 49.44 | 88.20 | -38.76 | peak | |
| 2 | * | 13970.00 | 30.33 | 7.22 | 37.55 | 68.20 | -30.65 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|----------------|-----------------------|--------------|------------|
| Test Mode | IEEE 802.11ax (HE160) | Test Date | 2023/2/1 |
| Test Frequency | 6985MHz | Polarization | Horizontal |
| Temp | 23°C | Hum. | 59% |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 13970.00 | 42.15 | 7.22 | 49.37 | 88.20 | -38.83 | peak | |
| 2 | * | 13970.00 | 30.46 | 7.22 | 37.68 | 68.20 | -30.52 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D MAXIMUM E.I.R.P.

| | | | |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE20)_Ant. 1 | Tested Date | 2023/1/15 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955 | 0.63 | 0.0012 | 5.20 | 0.0033 | 24.00 | 0.2512 | Pass |
| 6175 | -0.55 | 0.0009 | 4.02 | 0.0025 | 24.00 | 0.2512 | Pass |
| 6415 | -1.47 | 0.0007 | 3.10 | 0.0020 | 24.00 | 0.2512 | Pass |
| 6435 | 0.12 | 0.0010 | 4.69 | 0.0029 | 24.00 | 0.2512 | Pass |
| 6475 | -0.74 | 0.0008 | 3.83 | 0.0024 | 24.00 | 0.2512 | Pass |
| 6515 | 0.35 | 0.0011 | 4.92 | 0.0031 | 24.00 | 0.2512 | Pass |
| 6535 | 0.93 | 0.0012 | 5.50 | 0.0035 | 24.00 | 0.2512 | Pass |
| 6695 | -0.72 | 0.0008 | 3.85 | 0.0024 | 24.00 | 0.2512 | Pass |
| 6855 | -0.17 | 0.0010 | 4.40 | 0.0028 | 24.00 | 0.2512 | Pass |
| 6875 | -0.33 | 0.0009 | 4.24 | 0.0027 | 24.00 | 0.2512 | Pass |
| 6995 | -1.77 | 0.0007 | 2.80 | 0.0019 | 24.00 | 0.2512 | Pass |
| 7095 | -0.91 | 0.0008 | 3.66 | 0.0023 | 24.00 | 0.2512 | Pass |
| 7115 | -11.29 | 0.0001 | -6.72 | 0.0002 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE20)_Ant. 2 | Tested Date | 2023/1/15 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955 | -0.92 | 0.0008 | 3.65 | 0.0023 | 24.00 | 0.2512 | Pass |
| 6175 | -0.51 | 0.0009 | 4.06 | 0.0025 | 24.00 | 0.2512 | Pass |
| 6415 | -0.55 | 0.0009 | 4.02 | 0.0025 | 24.00 | 0.2512 | Pass |
| 6435 | 0.36 | 0.0011 | 4.93 | 0.0031 | 24.00 | 0.2512 | Pass |
| 6475 | 0.27 | 0.0011 | 4.84 | 0.0030 | 24.00 | 0.2512 | Pass |
| 6515 | 1.06 | 0.0013 | 5.63 | 0.0037 | 24.00 | 0.2512 | Pass |
| 6535 | 1.11 | 0.0013 | 5.68 | 0.0037 | 24.00 | 0.2512 | Pass |
| 6695 | 0.22 | 0.0011 | 4.79 | 0.0030 | 24.00 | 0.2512 | Pass |
| 6855 | -0.22 | 0.0010 | 4.35 | 0.0027 | 24.00 | 0.2512 | Pass |
| 6875 | -0.01 | 0.0010 | 4.56 | 0.0029 | 24.00 | 0.2512 | Pass |
| 6995 | 0.57 | 0.0011 | 5.14 | 0.0033 | 24.00 | 0.2512 | Pass |
| 7095 | 1.66 | 0.0015 | 6.23 | 0.0042 | 24.00 | 0.2512 | Pass |
| 7115 | -9.52 | 0.0001 | -4.95 | 0.0003 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE20)_Total | Tested Date | 2023/1/15 |
|-----------|----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5955 | 2.93 | 0.0020 | 7.50 | 0.0056 | 24.00 | 0.2512 | Pass |
| 6175 | 2.48 | 0.0018 | 7.05 | 0.0051 | 24.00 | 0.2512 | Pass |
| 6415 | 2.02 | 0.0016 | 6.59 | 0.0046 | 24.00 | 0.2512 | Pass |
| 6435 | 3.25 | 0.0021 | 7.82 | 0.0061 | 24.00 | 0.2512 | Pass |
| 6475 | 2.80 | 0.0019 | 7.37 | 0.0055 | 24.00 | 0.2512 | Pass |
| 6515 | 3.73 | 0.0024 | 8.30 | 0.0068 | 24.00 | 0.2512 | Pass |
| 6535 | 4.03 | 0.0025 | 8.60 | 0.0072 | 24.00 | 0.2512 | Pass |
| 6695 | 2.79 | 0.0019 | 7.36 | 0.0054 | 24.00 | 0.2512 | Pass |
| 6855 | 2.82 | 0.0019 | 7.39 | 0.0055 | 24.00 | 0.2512 | Pass |
| 6875 | 2.84 | 0.0019 | 7.41 | 0.0055 | 24.00 | 0.2512 | Pass |
| 6995 | 2.57 | 0.0018 | 7.14 | 0.0052 | 24.00 | 0.2512 | Pass |
| 7095 | 3.57 | 0.0023 | 8.14 | 0.0065 | 24.00 | 0.2512 | Pass |
| 7115 | -7.31 | 0.0002 | -2.74 | 0.0005 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE40)_Ant. 1 | Tested Date | 2023/1/15 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965 | 1.90 | 0.0015 | 6.47 | 0.0044 | 24.00 | 0.2512 | Pass |
| 6165 | 3.11 | 0.0020 | 7.68 | 0.0059 | 24.00 | 0.2512 | Pass |
| 6405 | 2.49 | 0.0018 | 7.06 | 0.0051 | 24.00 | 0.2512 | Pass |
| 6445 | 3.18 | 0.0021 | 7.75 | 0.0060 | 24.00 | 0.2512 | Pass |
| 6485 | 3.09 | 0.0020 | 7.66 | 0.0058 | 24.00 | 0.2512 | Pass |
| 6525 | 3.28 | 0.0021 | 7.85 | 0.0061 | 24.00 | 0.2512 | Pass |
| 6685 | 3.34 | 0.0022 | 7.91 | 0.0062 | 24.00 | 0.2512 | Pass |
| 6845 | 2.67 | 0.0018 | 7.24 | 0.0053 | 24.00 | 0.2512 | Pass |
| 6885 | 3.15 | 0.0021 | 7.72 | 0.0059 | 24.00 | 0.2512 | Pass |
| 7085 | 1.37 | 0.0014 | 5.94 | 0.0039 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE40)_Ant. 2 | Tested Date | 2023/1/15 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965 | 2.67 | 0.0018 | 7.24 | 0.0053 | 24.00 | 0.2512 | Pass |
| 6165 | 3.42 | 0.0022 | 7.99 | 0.0063 | 24.00 | 0.2512 | Pass |
| 6405 | 3.97 | 0.0025 | 8.54 | 0.0071 | 24.00 | 0.2512 | Pass |
| 6445 | 4.43 | 0.0028 | 9.00 | 0.0079 | 24.00 | 0.2512 | Pass |
| 6485 | 4.59 | 0.0029 | 9.16 | 0.0082 | 24.00 | 0.2512 | Pass |
| 6525 | 4.61 | 0.0029 | 9.18 | 0.0083 | 24.00 | 0.2512 | Pass |
| 6685 | 3.55 | 0.0023 | 8.12 | 0.0065 | 24.00 | 0.2512 | Pass |
| 6845 | 3.21 | 0.0021 | 7.78 | 0.0060 | 24.00 | 0.2512 | Pass |
| 6885 | 3.44 | 0.0022 | 8.01 | 0.0063 | 24.00 | 0.2512 | Pass |
| 7085 | 3.41 | 0.0022 | 7.98 | 0.0063 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE40)_Total | Tested Date | 2023/1/15 |
|-----------|----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5965 | 5.31 | 0.0034 | 9.88 | 0.0097 | 24.00 | 0.2512 | Pass |
| 6165 | 6.28 | 0.0042 | 10.85 | 0.0122 | 24.00 | 0.2512 | Pass |
| 6405 | 6.30 | 0.0043 | 10.87 | 0.0122 | 24.00 | 0.2512 | Pass |
| 6445 | 6.86 | 0.0049 | 11.43 | 0.0139 | 24.00 | 0.2512 | Pass |
| 6485 | 6.91 | 0.0049 | 11.48 | 0.0141 | 24.00 | 0.2512 | Pass |
| 6525 | 7.01 | 0.0050 | 11.58 | 0.0144 | 24.00 | 0.2512 | Pass |
| 6685 | 6.46 | 0.0044 | 11.03 | 0.0127 | 24.00 | 0.2512 | Pass |
| 6845 | 5.96 | 0.0039 | 10.53 | 0.0113 | 24.00 | 0.2512 | Pass |
| 6885 | 6.31 | 0.0043 | 10.88 | 0.0122 | 24.00 | 0.2512 | Pass |
| 7085 | 5.52 | 0.0036 | 10.09 | 0.0102 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE80)_Ant. 1 | Tested Date | 2023/1/15 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985 | 5.45 | 0.0035 | 10.02 | 0.0100 | 24.00 | 0.2512 | Pass |
| 6145 | 5.83 | 0.0038 | 10.40 | 0.0110 | 24.00 | 0.2512 | Pass |
| 6385 | 4.93 | 0.0031 | 9.50 | 0.0089 | 24.00 | 0.2512 | Pass |
| 6465 | 6.28 | 0.0042 | 10.85 | 0.0122 | 24.00 | 0.2512 | Pass |
| 6545 | 5.51 | 0.0036 | 10.08 | 0.0102 | 24.00 | 0.2512 | Pass |
| 6625 | 4.21 | 0.0026 | 8.78 | 0.0076 | 24.00 | 0.2512 | Pass |
| 6785 | 4.72 | 0.0030 | 9.29 | 0.0085 | 24.00 | 0.2512 | Pass |
| 6865 | 5.92 | 0.0039 | 10.49 | 0.0112 | 24.00 | 0.2512 | Pass |
| 6945 | 5.57 | 0.0036 | 10.14 | 0.0103 | 24.00 | 0.2512 | Pass |
| 7025 | 5.51 | 0.0036 | 10.08 | 0.0102 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE80)_Ant. 2 | Tested Date | 2023/1/15 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985 | 5.57 | 0.0036 | 10.14 | 0.0103 | 24.00 | 0.2512 | Pass |
| 6145 | 5.21 | 0.0033 | 9.78 | 0.0095 | 24.00 | 0.2512 | Pass |
| 6385 | 6.62 | 0.0046 | 11.19 | 0.0132 | 24.00 | 0.2512 | Pass |
| 6465 | 7.25 | 0.0053 | 11.82 | 0.0152 | 24.00 | 0.2512 | Pass |
| 6545 | 6.68 | 0.0047 | 11.25 | 0.0133 | 24.00 | 0.2512 | Pass |
| 6625 | 5.92 | 0.0039 | 10.49 | 0.0112 | 24.00 | 0.2512 | Pass |
| 6785 | 5.37 | 0.0034 | 9.94 | 0.0099 | 24.00 | 0.2512 | Pass |
| 6865 | 5.24 | 0.0033 | 9.81 | 0.0096 | 24.00 | 0.2512 | Pass |
| 6945 | 5.72 | 0.0037 | 10.29 | 0.0107 | 24.00 | 0.2512 | Pass |
| 7025 | 5.84 | 0.0038 | 10.41 | 0.0110 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE80)_Total | Tested Date | 2023/1/15 |
|-----------|----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 5985 | 8.52 | 0.0071 | 13.09 | 0.0204 | 24.00 | 0.2512 | Pass |
| 6145 | 8.54 | 0.0071 | 13.11 | 0.0205 | 24.00 | 0.2512 | Pass |
| 6385 | 8.87 | 0.0077 | 13.44 | 0.0221 | 24.00 | 0.2512 | Pass |
| 6465 | 9.80 | 0.0096 | 14.37 | 0.0274 | 24.00 | 0.2512 | Pass |
| 6545 | 9.14 | 0.0082 | 13.71 | 0.0235 | 24.00 | 0.2512 | Pass |
| 6625 | 8.16 | 0.0065 | 12.73 | 0.0187 | 24.00 | 0.2512 | Pass |
| 6785 | 8.07 | 0.0064 | 12.64 | 0.0184 | 24.00 | 0.2512 | Pass |
| 6865 | 8.60 | 0.0073 | 13.17 | 0.0208 | 24.00 | 0.2512 | Pass |
| 6945 | 8.66 | 0.0073 | 13.23 | 0.0210 | 24.00 | 0.2512 | Pass |
| 7025 | 8.69 | 0.0074 | 13.26 | 0.0212 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|------------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE160)_Ant. 1 | Tested Date | 2023/1/15 |
|-----------|------------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025 | 7.45 | 0.0056 | 12.02 | 0.0159 | 24.00 | 0.2512 | Pass |
| 6345 | 5.71 | 0.0037 | 10.28 | 0.0107 | 24.00 | 0.2512 | Pass |
| 6505 | 6.91 | 0.0049 | 11.48 | 0.0141 | 24.00 | 0.2512 | Pass |
| 6665 | 7.39 | 0.0055 | 11.96 | 0.0157 | 24.00 | 0.2512 | Pass |
| 6985 | 6.98 | 0.0050 | 11.55 | 0.0143 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|------------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE160)_Ant. 2 | Tested Date | 2023/1/15 |
|-----------|------------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025 | 7.45 | 0.0056 | 12.02 | 0.0159 | 24.00 | 0.2512 | Pass |
| 6345 | 8.43 | 0.0070 | 13.00 | 0.0200 | 24.00 | 0.2512 | Pass |
| 6505 | 8.03 | 0.0064 | 12.60 | 0.0182 | 24.00 | 0.2512 | Pass |
| 6665 | 7.65 | 0.0058 | 12.22 | 0.0167 | 24.00 | 0.2512 | Pass |
| 6985 | 7.46 | 0.0056 | 12.03 | 0.0160 | 24.00 | 0.2512 | Pass |

| | | | |
|-----------|-----------------------------|-------------|-----------|
| Test Mode | IEEE 802.11ax (HE160)_Total | Tested Date | 2023/1/15 |
|-----------|-----------------------------|-------------|-----------|

| Test Frequency (MHz) | Conducted Power (dBm) | Conducted Power (W) | E.I.R.P. (dBm) | E.I.R.P. (W) | E.I.R.P. Limit (dBm) | E.I.R.P. Limit (W) | Result |
|----------------------|-----------------------|---------------------|----------------|--------------|----------------------|--------------------|--------|
| 6025 | 10.46 | 0.0111 | 15.03 | 0.0318 | 24.00 | 0.2512 | Pass |
| 6345 | 10.29 | 0.0107 | 14.86 | 0.0306 | 24.00 | 0.2512 | Pass |
| 6505 | 10.52 | 0.0113 | 15.09 | 0.0323 | 24.00 | 0.2512 | Pass |
| 6665 | 10.53 | 0.0113 | 15.10 | 0.0324 | 24.00 | 0.2512 | Pass |
| 6985 | 10.24 | 0.0106 | 14.81 | 0.0302 | 24.00 | 0.2512 | Pass |

End of Test Report