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FCC ID: M82-WP7610 Report No.: T200207D01-RP6

FCC 47 CFR PART 90

TEST REPORT

For

Module

Model No.: WP7610

Trade Name: Advantech; Advantech Service-IoT

Issued to

Advantech Co., Ltd. No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc. Wugu Laboratory

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.) Issued Date: December 22, 2020

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

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Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|-------------------|------------------------|-------------|-------------|
| 00 | November 11, 2020 | Initial Issue | ALL | Angel Cheng |
| 01 | December 22, 2020 | 1. Revised section 8.1 | P.14-15 | Angel Cheng |



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1. TEST RESULT CERTIFICATION

Applicant: Advantech Co., Ltd.

No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District,

Taipei 114, Taiwan, R.O.C.

Manufacturer: Advantech Co.Ltd.

No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District,

Taipei 114, Taiwan, R.O.C.

Equipment Under Test: Module

Trade Name: Advantech; Advantech Service-IoT

Model No.: WP7610

Date of Test: September 16 ~ 21, 2020

| APPLICABLE STANDARDS | | | | | |
|---|--|--|--|--|--|
| Standard TEST RESULT | | | | | |
| FCC 47 CFR PART 90 No non-compliance noted | | | | | |
| Statements of Conformity | | | | | |
| Determination of compliance is based on the results of the compliance measurement, not taking | | | | | |
| into account measurement instrumentation uncertainty. | | | | | |

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to

production tolerance and measurement uncertainties.

Approved by:

Kevin Tsai

Deputy Manager

Compliance Certification Services Inc.

Komil Tani



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2. EUT DESCRIPTION

| Product | Module | | |
|-------------------------|---|---------------------|--|
| Model No. | WP7610 | | |
| Model Discrepancy | lodel Discrepancy N/A | | |
| Trade | Advantech; Advantech Service-IoT | | |
| Received Date | February 7, 2020 | | |
| Power Supply | Powered from host device. | | |
| Modulation Technology | LTE Band 14 | QPSK, 16QAM | |
| Frequency Range | LTE Band 14 Channel Bandwidth: 5MHz | 790.5MHz ~ 795.5MHz | |
| Frequency Kange | LTE Band 14 Channel Bandwidth: 10MHz | 793MHz | |
| Antenna Specification | Part No.: MA231.LBC.002 PIFA Antenna LTE Band 14 Antenna gain: 2.26 dBi | | |
| Host device information | Product : Computer Trade name: ADVANTECH Model: TREK-572 | | |

Note: 1. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

2. Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.



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3. TEST METHODOLOGY

3.1 DESCRIPTION OF TEST TYPE

The EUT (Model: WP7610) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

LTE Band 14: 790.5 MHz ~ 795.5 MHz

Three channels had been tested for each channel bandwidth.

| Channel | 5 | MHz | 10MHz | | |
|--------------------|---------|--------------------|---------|--------------------|--|
| Bandwidth | Channel | Frequency (MHz) | Channel | Frequency (MHz) | |
| Low channel (L) | 23305 | 790.5 | - | - | |
| Middle channel (M) | 23330 | 793.0 | 23330 | 793.0 | |
| High channel (H) | 23355 | 795.5 | - | - | |



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3.2 THE WORST MODE OF MEASUREMENT

| Radiated Emission Measurement Above 1G | | | | |
|--|--|--|--|--|
| Test Condition | Radiated Emission Above 1G | | | |
| Power supply Mode | Mode 1: EUT power by Adapter | | | |
| Worst Mode | | | | |
| Worst Position | ☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☐ Placed in fixed position at Z-Plane (H-Plane) | | | |
| Ra | adiated Emission Measurement Below 1G | | | |
| Test Condition | Radiated Emission Below 1G | | | |
| Power supply Mode | Mode 1: EUT power by Adapter | | | |
| Worst Mode | | | | |

Remark:

- 1. The worst mode was record in this test report.
- 2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report



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4. TEST SUMMARY

| FCC Standard Section | Report Section | Test Item | Result |
|----------------------|-------------------|-----------------------------------|--------|
| - | 2 | Antenna Requirement | Pass |
| 90.542 (a) | 8.1 | ERP Measurement | Pass |
| 90.543 (c) | 8.2 | Spurious Radiation Measurement | Pass |



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5. INSTRUMENT CALIBRATION

5.1 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

| Test site | Test Engineer | Remark |
|--------------|---------------|--------|
| Radiation | Jerry Chang | - |
| RF Conducted | Jane Wang | - |

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CIPR Publication 22.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

| Ttomarki Laon p | temark: Each proce of equipment is confedered for campitation office a year. | | | | | | |
|---|--|------------|--------|------------|------------|--|--|
| | RF Conducted Test Site | | | | | | |
| Equipment | Manufacturer | Model | S/N | Cal Date | Cal Due | | |
| Coaxial Cable | Woken | WC12 | CC003 | 06/29/2020 | 06/28/2021 | | |
| Coaxial Cable | Woken | WC12 | CC001 | 06/29/2020 | 06/28/2021 | | |
| Power Divider | Solvang Technology | STI08-0015 | 008 | 08/05/2020 | 08/04/2021 | | |
| Signal Analyzer | R&S | FSV 40 | 101073 | 09/25/2019 | 09/24/2020 | | |
| Wideband Radio Communication Tester | R&S | CMW 500 | 116875 | 07/19/2020 | 07/18/2021 | | |
| Software | | _ | N/A | | • | | |

| 3M 966 Chamber Test Site | | | | | | |
|---|----------------|--------------------|---------------|------------|------------|--|
| Equipment Manufacturer Model S/N Cal Date | | | | | Cal Due | |
| Band Reject Filters | MICRO TRONICS | BRM 50702 | 120 | 02/25/2020 | 02/24/2021 | |
| Bilog Antenna | Sunol Sciences | JB3 | A030105 | 07/24/2020 | 07/23/2021 | |
| Coaxial Cable | HUBER SUHNER | SUCOFLEX 104PEA | 20995 | 02/25/2020 | 02/24/2021 | |
| Coaxial Cable | EMCI | EMC105 | 190914+25111 | 09/19/2020 | 09/18/2021 | |
| Digital Thermo-Hygro Meter | WISEWIND | 1206 | D07 | 01/15/2020 | 01/14/2021 | |
| double Ridged Guide Horn Antenna | ETC | MCTD 1209 | DRH13M02003 | 10/04/2019 | 10/03/2020 | |
| Loop Ant | COM-POWER | AL-130 | 121051 | 03/27/2020 | 03/26/2021 | |
| Pre-Amplifier | EMEC | EM330 | 060609 | 02/25/2020 | 02/24/2021 | |
| Pre-Amplifier | HP | 8449B | 3008A00965 | 02/25/2020 | 02/24/2021 | |
| Wideband Radio Communication Tester | R&S | CMW 500 | 116875 | 07/19/2020 | 07/18/2021 | |
| PSA Series Spectrum Analyzer | Agilent | E4446A | MY46180323 | 07/24/2020 | 07/23/2021 | |
| Antenna Tower | CCS | CC-A-1F | N/A | N.C.R | N.C.R | |
| Controller | CCS | CC-C-1F | N/A | N.C.R | N.C.R | |
| Turn Table | CCS | CC-T-1F | N/A | N.C.R | N.C.R | |
| Software | | e3 6 | 6.11-20180413 | | | |



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5.3 MEASUREMENT UNCERTAINTY

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| AC Powerline Conducted Emission | +/- 1.2575 |
| Emission bandwidth, 20dB bandwidth | +/- 0.0014 |
| RF output power, conducted | +/- 1.14 |
| Power density, conducted | +/- 1.40 |
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.12 |
| 3M Semi Anechoic Chamber / 200M~1000M | +/- 4.68 |
| 3M Semi Anechoic Chamber / 1G~8G | +/- 5.18 |
| 3M Semi Anechoic Chamber / 8G~18G | +/- 5.47 |
| 3M Semi Anechoic Chamber / 18G~26G | +/- 3.81 |
| 3M Semi Anechoic Chamber / 26G~40G | +/- 3.87 |

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



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6. FACILITIES AND ACCREDITATIONS

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
 Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10: 2013 and CISPR Publication 22.

6.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 0824-01 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, ISED#: 2324G.



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7. SETUP OF EQUIPMENT UNDER TEST

7.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

7.2 SUPPORT EQUIPMENT

| No. | Equipment | Brand | Model | Series No. | FCC ID | IC ID |
|-----|-----------|-------|-------|------------|--------|-------|
| | N/A | | | | | |

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



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8. TEST PROCEDURE AND RESULT

8.1 ERP & EIRP MEASUREMENT

LIMIT

According to FCC §2.1046

FCC 90.542 (a)(6): Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

TEST PROCEDURES

CONDUCTED POWER MEASUREMENT:

- 1. The transmitter output power was connected to the call box.
- 2. Set EUT at maximum output power via call box.
- 3. Set Call box at lowest, middle and highest channels for each band and modulation.

TEST RESULTS

No non-compliance noted.

LTE Band 14

Temperature: 24°C Test Date: September 16, 2020

Humidity: 50 % RH **Tested by:** Jane Wang



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| Band | BW (MHz) | Channel | Frequency (MHz) | Mode | UL RB Allocation | UL RB Start | MPR | Average power (dBm) | ERP Power |
|---------|-------------|---------|-----------------|-------|---------------------|----------------|-----|---------------------|-----------|
| | | | | | 1 | 0 | 0 | 23.64 | 23.75 |
| | | | | | 1 | 12 | 0 | 23.86 | 23.97 |
| | | | | | 1 | 24 | 0 | 23.63 | 23.74 |
| | | | | QPSK | 12 | 0 | 1 | 22.85 | 22.96 |
| | | | | | 12 | 6 | 1 | 22.88 | 22.99 |
| | | 23305 | 790.5 | | 12 | 11 | 1 | 22.64 | 22.75 |
| | | | | | 25 | 0 | 1 | 22.71 | 22.82 |
| | | 20000 | 7 30.3 | | 1 | 0 | 1 | 22.90 | 23.01 |
| | | | | | 1 | 12 | 1 | 23.05 | 23.16 |
| | | | | | 1 | 24 | 1 | 22.74 | 22.85 |
| | | | | 16QAM | 12 | 0 | 2 | 21.94 | 22.05 |
| | | | | | 12 | 6 | 2 | 21.98 | 22.09 |
| | | | | | 12 | 11 | 2 | 21.74 | 21.85 |
| | | | | | 25 | 0 | 2 | 21.91 | 22.02 |
| | | | 793.0 | | 1 | 0 | 0 | 23.84 | 23.95 |
| | 5M | 23330 | | | 1 | 12 | 0 | 23.62 | 23.73 |
| | | | | | 1 | 24 | 0 | 23.61 | 23.72 |
| | | | | QPSK | 12 | 0 | 1 | 22.83 | 22.94 |
| | | | | | 12 | 6 | 1 | 22.86 | 22.97 |
| | | | | | 12 | 11 | 1 | 22.62 | 22.73 |
| Dand 11 | | | | | 25 | 0 | 1 | 22.69 | 22.80 |
| Band 14 | | | | 16QAM | 1 | 0 | 1 | 22.88 | 22.99 |
| | | | | | 1 | 12 | 1 | 23.03 | 23.14 |
| | | | | | 1 | 24 | 1 | 22.72 | 22.83 |
| | | | | | 12 | 0 | 2 | 21.92 | 22.03 |
| | | | | | 12 | 6 | 2 | 21.96 | 22.07 |
| | | | | | 12 | 11 | 2 | 21.72 | 21.83 |
| | | | | | 25 | 0 | 2 | 21.89 | 22.00 |
| | | 23355 | 795.5 | QPSK | 1 | 0 | 0 | 23.68 | 23.79 |
| | | | | | 1 | 12 | 0 | 23.90 | 24.01 |
| | | | | | 1 | 24 | 0 | 23.67 | 23.78 |
| | | | | | 12 | 0 | 1 | 22.89 | 23.00 |
| | | | | | 12 | 6 | 1 | 22.92 | 23.03 |
| | | | | | 12 | 11 | 1 | 22.68 | 22.79 |
| | | | | | 25 | 0 | 1 | 22.75 | 22.86 |
| | | | | | 1 | 0 | 1 | 22.94 | 23.05 |
| | | | | | 1 | 12 | 1 | 23.09 | 23.20 |
| | | | | 16QAM | 1 | 24 | 1 | 22.78 | 22.89 |
| | | | | | 12 | 0 | 2 | 21.98 | 22.09 |
| | | | | | 12 | 6 | 2 | 22.02 | 22.13 |
| | | | | | 12 | 11 | 2 | 21.78 | 21.89 |
| | | | | | 25 | 0 | 2 | 21.95 | 22.06 |



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| Band | BW (MHz) | Channel | Frequency (MHz) | Mode | UL RB Allocation | UL RB Start | MPR | Average power (dBm) | ERP Power |
|---------|-------------|---------|-----------------|-------|---------------------|----------------|-----|---------------------|-----------|
| Band 14 | 10M | 23330 | 793.0 | QPSK | 1 | 0 | 0 | 23.70 | 23.81 |
| | | | | | 1 | 24 | 0 | 23.92 | 24.03 |
| | | | | | 1 | 49 | 0 | 23.69 | 23.80 |
| | | | | | 25 | 0 | 1 | 22.91 | 23.02 |
| | | | | | 25 | 12 | 1 | 22.94 | 23.05 |
| | | | | | 25 | 24 | 1 | 22.70 | 22.81 |
| | | | | | 50 | 0 | 1 | 22.77 | 22.88 |
| | | | | 16QAM | 1 | 0 | 1 | 22.96 | 23.07 |
| | | | | | 1 | 24 | 1 | 23.11 | 23.22 |
| | | | | | 1 | 49 | 1 | 22.80 | 22.91 |
| | | | | | 25 | 0 | 2 | 22.00 | 22.11 |
| | | | | | 25 | 12 | 2 | 22.04 | 22.15 |
| | | | | | 25 | 24 | 2 | 21.80 | 21.91 |
| | | | | | 50 | 0 | 2 | 21.97 | 22.08 |



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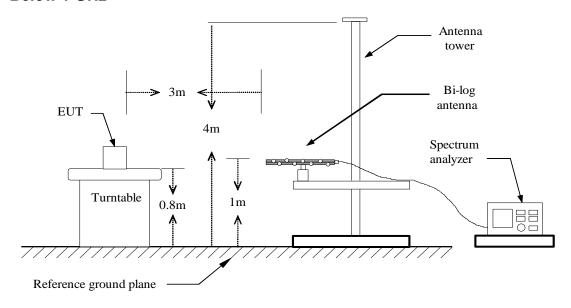
8.2 RADIATED EMISSION MEASUREMENT

LIMITS

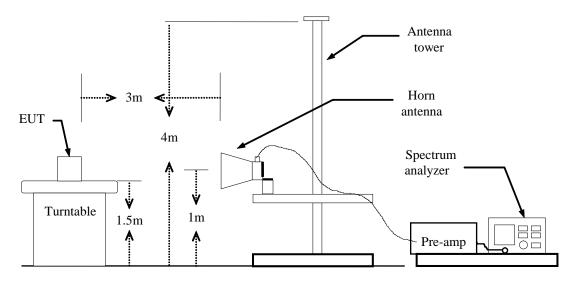
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission equal to -13dBm

Test Configuration

Below 1 GHz



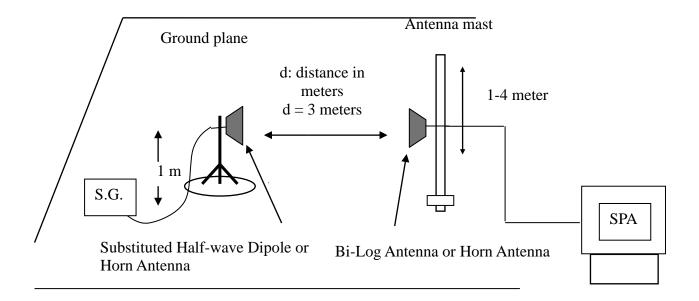
Above 1 GHz





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Substituted Method Test Set-up



TEST PROCEDURES

- 1. According to KDB 971168 D01 Power Meas License Digital Systems and TIA-603-E Section 2.2.12.
- 2. The EUT was placed on a turntable
 - (1) Below 1G: 0.8m
 - (2) Above 1G: 1.5m
 - (3) EUT set 3m from the receiving antenna
 - (4) The table was rotated 360 degrees of the highest spurious emission to determine the position.
- 3. Set the spectrum analyzer, RBW=1MHz, VBW=3MHz.
- 4. A horn antenna was driven by a signal generator.
- 5. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission

ERP = S.G. output (dBm) + Antenna Gain (dBi) - Cable (dB)-2.15

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

TEST RESULTS

Refer to the attached tabular data sheets.

Remark: Above 1GHz

Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



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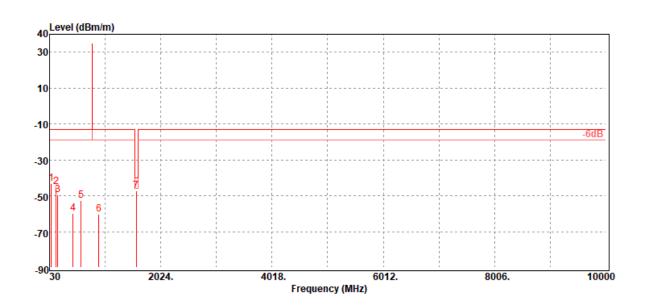
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LTE Band 14 / BW: 10MHz / QPSK / RB =1, RB Offset = 0

Operation Mode: Tx / Mid CH **Test Date:** September 21, 2020

Temperature: 23.4°C **Tested by:** Jerry Chang

Humidity: 54%RH **Polarity:** Ver.



| Freq. | ERP/EIRP | SG | Antenna | Cable | Limit | Margin | Antenna |
|---------|----------|--------------|---------|-------|--------|--------|--------------|
| | | Output Level | Gain | Loss | | | Polarization |
| MHz | dBm | dBm | dBd/dBi | dB | dBm | dB | (V/H) |
| 65.89 | -43.10 | -32.59 | -9.84 | -0.67 | -13.00 | -30.10 | V |
| 150.28 | -44.88 | -36.77 | -7.10 | -1.01 | -13.00 | -31.88 | V |
| 181.32 | -49.73 | -44.35 | -4.27 | -1.11 | -13.00 | -36.73 | V |
| 451.95 | -59.83 | -55.97 | -2.10 | -1.76 | -13.00 | -46.83 | V |
| 594.54 | -52.77 | -49.89 | -0.82 | -2.06 | -13.00 | -39.77 | V |
| 910.76 | -60.22 | -56.28 | -1.38 | -2.56 | -13.00 | -47.22 | V |
| 1586.00 | -47.13 | -53.18 | 9.52 | -3.47 | -40.00 | -7.13 | V |

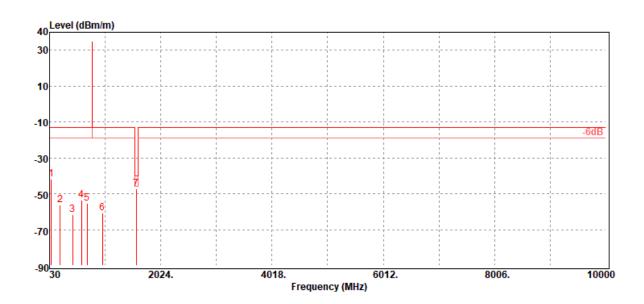


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Operation Mode: Tx / Mid CH Test Date: September 21, 2020

Temperature: 23.4°C **Tested by:** Jerry Chang

Humidity: 54%RH **Polarity:** Hor.



| Freq. | ERP/EIRP | SG | Antenna | Cable | Limit | Margin | Antenna |
|---------|----------|--------------|---------|-------|--------|--------|--------------|
| | | Output Level | Gain | Loss | | | Polarization |
| MHz | dBm | dBm | dBd/dBi | dB | dBm | dB | (V/H) |
| 65.89 | -41.79 | -31.28 | -9.84 | -0.67 | -13.00 | -28.79 | Н |
| 221.09 | -56.33 | -53.13 | -1.98 | -1.22 | -13.00 | -43.33 | Н |
| 448.07 | -61.57 | -57.72 | -2.10 | -1.75 | -13.00 | -48.57 | Н |
| 601.33 | -53.72 | -50.72 | -0.93 | -2.07 | -13.00 | -40.72 | Н |
| 708.03 | -55.17 | -51.49 | -1.44 | -2.24 | -13.00 | -42.17 | Н |
| 977.69 | -60.86 | -56.86 | -1.35 | -2.65 | -13.00 | -47.86 | Н |
| 1586.00 | -47.30 | -53.35 | 9.52 | -3.47 | -40.00 | -7.30 | Н |

- End of Test Report -