

FCC PART 15 SUBPART C / IC RSS-210 TEST REPORT

for

Electronic Z-Wave Deadbolt

Model No.: A32-WG014

FCC ID: O3I-A32WG014

IC: 10365A-A32WG014

of

Applicant: **Taiwan Fu Hsing Industrial Co., Ltd.**

Address: **No.88, Yucai Rd., Gangshan Dist., Kaohsiung City 820,
Taiwan (R.O.C.)**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. TW1477

A2LA Accredited No.: 2732.01



Report No.: W6M21905-19060-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



Registration number: W6M21905-19060-C-1
FCC ID: O3I-A32WG014
IC: 10365A-A32WG014

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

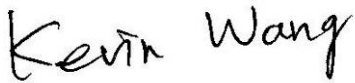
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Tester:

| | | |
|---------------|------------|--|
| June 19, 2019 | Leon Chueh |  |
|---------------|------------|--|

| | | | |
|------|----------|------|-----------|
| Date | WTS-Lab. | Name | Signature |
|------|----------|------|-----------|

Technical responsibility for area of testing:

| | | |
|---------------|------------|--|
| June 19, 2019 | Kevin Wang |  |
|---------------|------------|--|

| | | | |
|------|-----|------|-----------|
| Date | WTS | Name | Signature |
|------|-----|------|-----------|



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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village,

Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. TW1477

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.

Accredited number: ./.

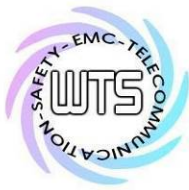
Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.



Registration number: W6M21905-19060-C-1
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1.3 Details of approval holder

Name: Taiwan Fu Hsing Industrial Co., Ltd.
Street: No.88, Yucai Rd., Gangshan Dist.,
City: Kaohsiung City 820,
Country: Taiwan (R.O.C.)
Telephone: 886-7-6225151
Fax: 886-7-6224700

1.4 Application details

Date of receipt of test item: June 13, 2019
Date of test: From June 13, 2019 to June 19, 2019

1.5 General information of Test item

Type of test item: Electronic Z-Wave Deadbolt
Model Number: A32-WG014
Multi-listing model number: FCC: KD-5B6-PZ, KD-5B7-PZ, KD-5B8-PZ, KD-5BC-PZ
IC: KD-5B7-PZ, KD-5B8-PZ, KD-5BC-PZ
Photos: see Annex

Technical data

Frequency band: 908-916 MHz
Operation Frequency: 908.42 MHz, 908.4 MHz, 916 MHz
Operation modes: Duplex
Modulation Type: FSK
Antenna type: PCB Antenna
Power supply: Battery 1.5Vd.c. x4

Manufacturer: (if different from applicant)

Name: ./.
Street: ./.
Town: ./.
Country: ./.

Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.249 (2018-10)
CANADA RSS-210 Issue 9 (2016-08)
CANADA RSS-Gen Issue 5 (2018-04)



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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

or

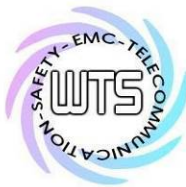
The deviations were ascertained in the course of the tests performed.

2.2 Test environment

Relative humidity content: 20 ... 75 %
Air pressure: 86 ... 103 kPa
Details Power supply: Battery 1.5Vd.c. x4
Extreme conditions parameters: Not required

| Test item Name | Uncertainty |
|---|--|
| Estimation Result of Uncertainty of Conducted Emission | Expanded Uncertainty : AMN : 1.30 dB Voltage probe : 1.36 dB |
| Estimation Result of Uncertainty of Radiated Emission(3M) | Expanded Uncertainty : 0.009-30 MHz : 2.02 dB 30-1000 MHz : 3.49 dB 1-18 GHz : 3.01 dB 18-40 GHz : 2.43 dB |
| Estimation Result of Uncertainty of Conducted Output Power Measurement Output power | Expanded Uncertainty : 1.72 dB |
| Estimation Result of Uncertainty of Band Edge Measurement | Expanded Uncertainty : 0.98 dBc |

The decision rule is : Measurement uncertainty is not taken into account.



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2.3 Test Equipment List

| No. | Test equipment | Type | Serial No. | Manufacturer | Cal. Date | Next Cal. Date |
|--------------|--|-----------------|-------------|--------------|---------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER | ESHS10 | 842121/013 | R&S | 2019/5/20 | 2020/5/19 |
| ETSTW-CE 003 | AC POWER SOURCE | APS-9102 | D161137 | GW | Function Test | |
| ETSTW-CE 004 | ZWEILEITER-V- NETZNACHBILDUNG TWO-LINE V-NETWORK | ESH3-Z5 | 840731/011 | R&S | 2018/11/1 | 2019/10/31 |
| ETSTW-CE 006 | IMPULSBEGRENZER PULSE LIMITER | ESH3-Z2 | 100226 | R&S | 2018/8/21 | 2019/8/20 |
| ETSTW-CE 008 | HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP | 334.6010.02 | 844581/024 | R&S | Function Test | |
| ETSTW-CE 009 | TEMP.&HUMIDITY CHAMBER | GTH-225-40-1P-U | MAA0305-009 | GIANT FORCE | 2018/7/13 | 2019/7/12 |
| ETSTW-CE 016 | TWO-LINE V-NETWORK | ENV216 | 100050 | R&S | 2018/9/25 | 2019/9/24 |
| ETSTW-CE 028 | MXE EMI Receiver | N9038A | MY53220110 | Agilent | 2018/7/16 | 2019/7/15 |
| ETSTW-RE 003 | EMI TEST RECEIVER | ESI 26 | 831438/001 | R&S | 2019/5/20 | 2020/5/19 |
| ETSTW-RE 004 | EMI TEST RECEIVER | ESI 40 | 832427/004 | R&S | 2019/5/29 | 2020/5/28 |
| ETSTW-RE 012 | TUNABLE BANDREJECT FILTER | D.C 0309 | 146 | K&L | Function Test | |
| ETSTW-RE 013 | TUNABLE BANDREJECT FILTER | D.C 0336 | 397 | K&L | Function Test | |
| ETSTW-RE 018 | MICROWAVE HORN ANTENNA | AT4560 | 27212 | AR | 2018/7/13 | 2019/7/12 |
| ETSTW-RE 027 | Passive Loop Antenna | 6512 | 00034563 | ETS-Lindgren | 2018/7/12 | 2019/7/11 |
| ETSTW-RE 030 | Double-Ridged Guide Horn Antenna | 3117 | 00035224 | ETS-Lindgren | 2019/4/2 | 2020/4/1 |
| ETSTW-RE 042 | Biconical Antenna | HK116 | 100172 | R&S | 2019/1/29 | 2020/1/28 |
| ETSTW-RE 043 | Log-Periodic Dipole Antenna | HL223 | 100166 | R&S | 2019/4/23 | 2020/4/22 |
| ETSTW-RE 044 | Log-Periodic Antenna | HL050 | 100094 | R&S | 2019/5/13 | 2020/5/12 |
| ETSTW-RE 045 | ESA-E SERIES SPECTRUM ANALYZER | E4404B | MY45111242 | Agilent | Pre-test Use | |
| ETSTW-RE 050 | Attenuator 10dB | 50HF-010-1 | None | JFW | 2019/2/27 | 2020/2/26 |
| ETSTW-RE 051 | Attenuator 6dB | 50HF-006-1 | None | JFW | 2019/2/27 | 2020/2/26 |
| ETSTW-RE 053 | Attenuator 3dB | 50HF-003-1 | None | JFW | 2019/2/27 | 2020/2/26 |
| ETSTW-RE 055 | SPECTRUM ANALYZER | FSU 26 | 200074 | R&S | 2019/3/5 | 2020/3/4 |
| ETSTW-RE 060 | Attenuator 30dB | 5015-30 | F651012z-01 | ATM | 2019/2/27 | 2020/2/26 |
| ETSTW-RE 062 | Amplifier Module | CHC 2 | None | KMIC | 2019/5/16 | 2020/5/15 |
| ETSTW-RE 064 | Bluetooth Test Set | MT8852B-042 | 6K00005709 | Anritsu | Function Test | |
| ETSTW-RE 069 | Double-Ridged Guide Horn Antenna | 3117 | 00069377 | ETS-Lindgren | Function Test | |
| ETSTW-RE 072 | CELL SITE TEST SET | 8921A | 3339A00375 | HP | 2018/9/17 | 2019/9/16 |
| ETSTW-RE 088 | SOLID STATE AMPLIFIER | KMA180265A01 | 99057 | KMIC | 2018/9/18 | 2019/9/17 |
| ETSTW-RE 091 | Match Pad | MDCS1500 | None | WOKEN | 2019/5/9 | 2020/5/8 |
| ETSTW-RE 099 | DC Block | 50DB-007-1 | None | JFW | 2019/2/22 | 2020/2/21 |
| ETSTW-RE 112 | AC POWER SOURCE | TFC-1005 | T-0A023536 | T-Power | Function test | |



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| | | | | | | |
|-----------------|--------------------------------------|--|-----------------|--------------------|------------------|------------|
| ETSTW-RE 115 | 2.4GHz Notch Filter | N0124411 | 473874 | MICROWAVE CIRCUITS | 2019/1/15 | 2020/1/14 |
| ETSTW-RE 120 | RF Player | MP9200 | MP9210-111022 | ADIVIC | Function test | |
| ETSTW-RE 122 | SIGNAL GENERATOR | SMF100A | 102149 | R&S | 2019/5/20 | 2020/5/19 |
| ETSTW-RE 125 | 5GHz Notch filter | 5NSL11-5200/E221.3-O/O | 1 | K&L Microwave | 2018/8/8 | 2019/8/7 |
| ETSTW-RE 126 | 5GHz Notch filter | 5NSL12-5800/E221.3-O/O | 1 | K&L Microwave | 2018/8/8 | 2019/8/7 |
| ETSTW-RE 127 | RF Switch Box | RFS-01 | None | WTS | 2019/2/26 | 2020/2/25 |
| ETSTW-RE 128 | 5.3GHz Notch filter | N0153001 | SN487233 | Microwave Circuits | 2018/8/8 | 2019/8/7 |
| ETSTW-RE 129 | 5.5GHz Notch filter | N0555984 | SN487234 | Microwave Circuits | 2018/8/8 | 2019/8/7 |
| ETSTW-RE 130 | Handheld RF Spectrum Analyzer | N9340A | CN0147000204 | Agilent | Pre-test Use | |
| ETSTW-RE 142 | Amplifier | 8447D | 2805A03378 | Agilent | 2019/5/16 | 2020/5/15 |
| ETSTW-RE 147 | Bi-log Hybrid Antenna | MCTD 2786B | BLB16M04005 | ETC | 2019/4/2 | 2020/4/1 |
| ETSTW-RE 151 | Thermohyrometer | 608-h1 | 45104376 | TESTO | 2018/8/17 | 2019/8/16 |
| ETSTW-EMI 011 | USB Compact Modulator | SFC-U | 101689 | R&S | 2019/5/16 | 2020/5/15 |
| ETSTW-EMS 008 | Exposure Level Tester | ELT-400 | G-0009 | Narda | 2018/7/17 | 2019/7/16 |
| ETSTW-GSM 002 | Universal Radio Communication Tester | CMU 200 | 109439 | R&S | 2019/3/5 | 2020/3/4 |
| ETSTW-GSM 003 | Radio Communication Analyzer | MT8820C | 6201342073 | Anritsu | 2019/3/26 | 2020/3/25 |
| ETSTW-GSM 004 | Wideband Radio Communication Tester | CMW500 | 128092 | R&S | 2018/10/19 | 2019/10/18 |
| ETSTW-GSM 019 | Band Reject Filter | WRCTF824/849-822/851-40 /12+9SS | 3 | WI | 2019/1/14 | 2020/1/13 |
| ETSTW-GSM 020 | Band Reject Filter | WRCD1747/1748-1743/1752-32/5SS | 1 | WI | 2019/1/14 | 2020/1/13 |
| ETSTW-GSM 021 | Band Reject Filter | WRCD1879.5/1880.5-1875.5/1884.5-32/5SS | 3 | WI | 2019/1/14 | 2020/1/13 |
| ETSTW-GSM 022 | Band Reject Filter | WRCT901.9/903.1-904.25-50/8SS | 1 | WI | 2019/1/14 | 2020/1/13 |
| ETSTW-GSM 023 | Power Divider | 4901.19.A | None | SUHNER | 2018/9/12 | 2019/9/11 |
| ETSTW-GSM 024 | Radio Communication Analyzer | MT8821C | None | Anritsu | 2019/3/5 | 2020/3/4 |
| ETSTW-GSM 025 | Band Reject Filter | BRM19835 | 001 | Micro-Tronics | 2018/8/9 | 2019/8/8 |
| ETSTW-Cable 011 | SMA to N type Cable | RGU-400 | None | THERMAX | Pre-test Use NCR | |
| ETSTW-Cable 016 | BNC Cable | Switch Box | B Cable 1 | Schwarz beck | 2019/2/21 | 2020/2/20 |
| ETSTW-Cable 017 | BNC Cable | X Cable | B Cable 2 | Schwarz beck | 2019/2/21 | 2020/2/20 |
| ETSTW-Cable 018 | BNC Cable | Y Cable | B Cable 3 | Schwarz beck | 2019/2/21 | 2020/2/20 |
| ETSTW-Cable 019 | BNC Cable | Z Cable | B Cable 4 | Schwarz beck | 2019/2/21 | 2020/2/20 |
| ETSTW-Cable 020 | N TYPE Cable | OATS Cable 1 | N30N30-L335-15M | JYE BAO CO.,LTD. | 2018/7/2 | 2019/7/1 |
| ETSTW-Cable 026 | Microwave Cable | SUCOFLEX 104 | 279075 | HUBER+SUHNER | 2019/2/25 | 2020/2/24 |
| ETSTW-Cable 027 | Microwave Cable | SUCOFLEX 104 | 279083 | HUBER+SUHNER | 2019/5/10 | 2020/5/9 |
| ETSTW-Cable 028 | Microwave Cable | FA147A0015M2020 | 30064-2 | UTIFLEX | 2018/9/18 | 2019/9/17 |
| ETSTW-Cable 029 | Microwave Cable | FA147A0015M2020 | 30064-3 | UTIFLEX | 2018/9/18 | 2019/9/17 |
| ETSTW-Cable 030 | Microwave Cable | SUCOFLEX 104 (S Cable 9) | 279067 | HUBER+SUHNER | 2019/2/25 | 2020/2/24 |
| ETSTW-Cable 043 | Microwave Cable | SUCOFLEX 104 | 317576 | HUBER+SUHNER | 2019/5/16 | 2020/5/15 |



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| | | | | | | |
|-----------------|---------------------|-----------------------|----------|--------------|------------------|-----------|
| ETSTW-Cable 058 | Microwave Cable | SUCOFLEX 104 | none | HUBER+SUHNER | 2019/6/4 | 2020/6/3 |
| ETSTW-Cable 064 | Microwave Cable | SUCOFLEX 104 | MY28891 | HUBER+SUHNER | 2019/5/16 | 2020/5/15 |
| ETSTW-Cable 066 | SMA type cable | 32022 | None | ASTROLAB | 2019/3/15 | 2020/3/14 |
| ETSTW-Cable 071 | N TYPE CABLE | EMCCFD400-NM-NM-25000 | 170239 | EMCI | 2019/6/4 | 2020/6/3 |
| ETSTW-Cable 072 | SMA type cable (8m) | SUCOFLEX 104 | 805800/4 | HUBER+SUHNER | 2019/5/16 | 2020/5/15 |
| ETSTW-Cable 074 | SMA type cable (2m) | SUCOFLEX 104 | 802563/4 | HUBER+SUHNER | 2019/5/16 | 2020/5/15 |
| WTSTW-SW 002 | EMI TEST SOFTWARE | EZ EMC | None | Farad | Version ETS-03A1 | |
| WTSTW-SW 006 | EMI TEST SOFTWARE | e3 | None | AUDIX | Version 9.161014 | |
| WTSTW-SW 008 | Signal studio | Agilent | None | AUDIX | Version 2.0.0.1 | |



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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 6.2 using a LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS
33 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

ANSI STANDARD C63.10-2013 6.2.2 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

ANSI STANDARD C63.10-2013 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



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3 Test results (enclosure)

| Test case | Para. Number | Required | Test passed | Test failed |
|--|-------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| Peak Output Power | 15.249 (a) IC RSS-210 A2.9 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions radiated – Transmitter operating | 15.249 (e) IC RSS-210 A2.9 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions conducted – Transmitter operating | 15.249 (e) IC RSS-210 A2.9 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emission from Receiver Part | 15.109 IC RSS-Gen | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Out of Band Spurious Emission, Band edge-Transmitter operating | 15.249 (e) IC RSS-210 A2.9 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Power Line Conducted Emission | 15.207 IC RSS-Gen | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

The following is intentionally left blank.



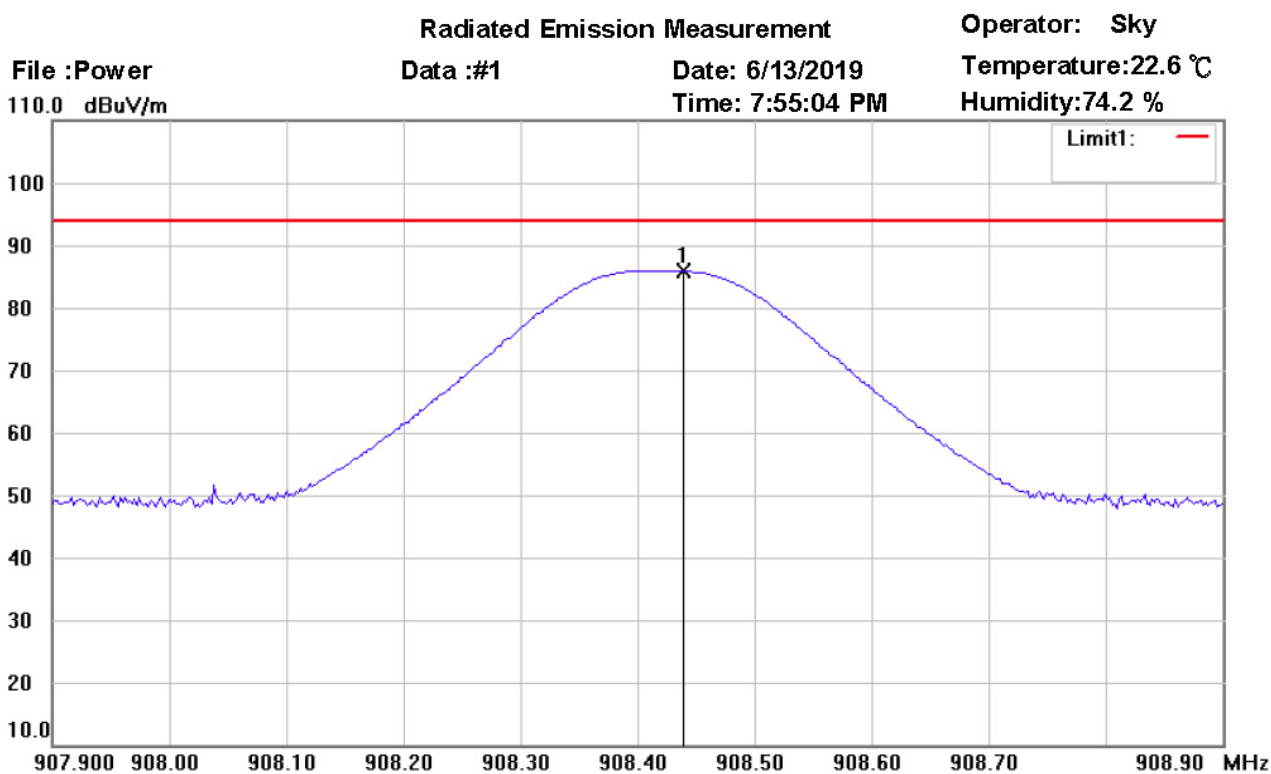
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3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (b)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M21905-19060

M/N :

Test Mode : TX 908.42MHz

Note :

Polarization: *Horizontal*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 908.4390 | 55.00 | peak | 30.86 | 85.86 | 94.00 | 210 | 160 | -8.14 | |



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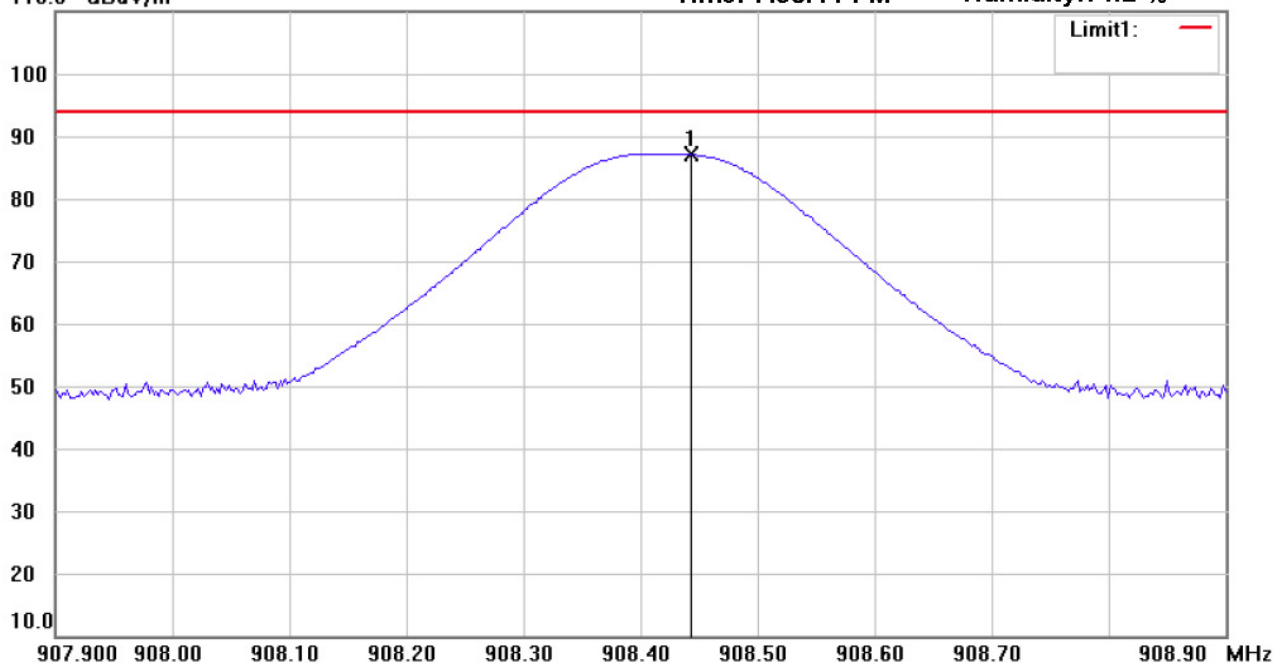
Radiated Emission Measurement

Operator: Sky
 Temperature: 22.6 °C
 Humidity: 74.2 %

File : Power
 110.0 dBuV/m

Data : #2

Date: 6/13/2019
 Time: 7:58:11 PM



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M21905-19060

M/N:

Test Mode : TX 908.42MHz

Note :

Polarization: *Vertical*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 908.4430 | 56.28 | peak | 30.86 | 87.14 | 94.00 | 110 | 359 | -6.86 | |



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 IC: 10365A-A32WG014

Radiated Emission Measurement

Operator: Sky

File :Power

Data :#1

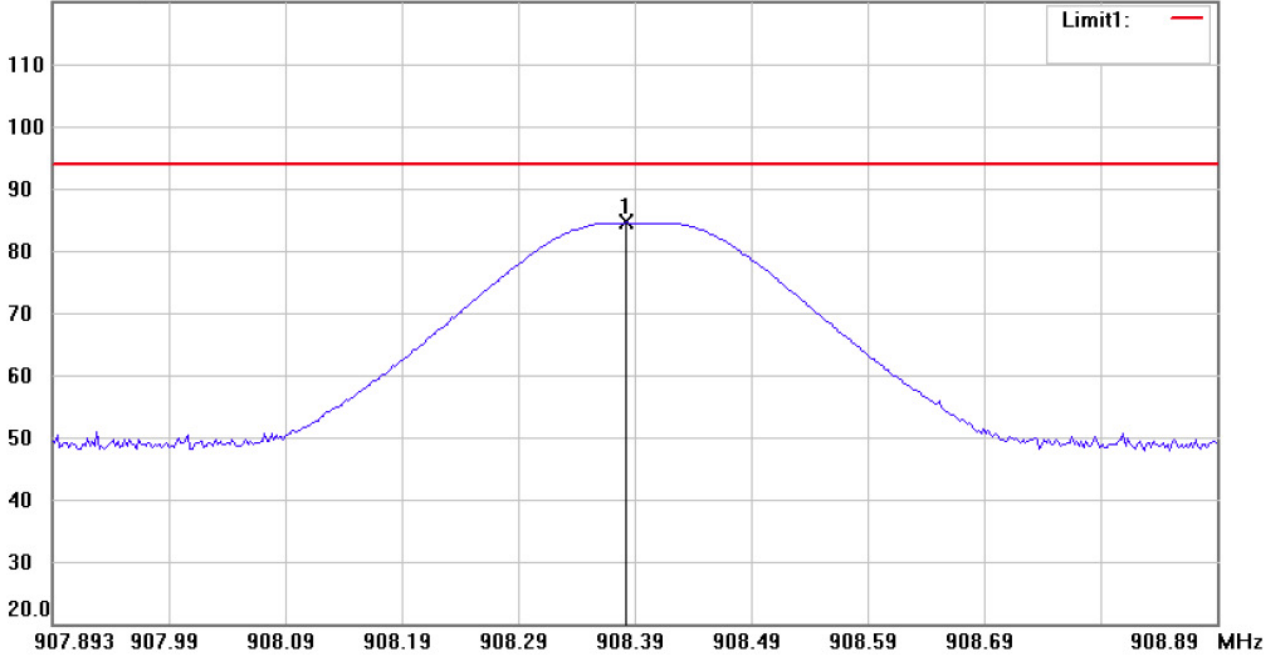
Date: 6/13/2019

Temperature:22.6 °C

120.0 dBuV/m

Time: 8:34:41 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 908.3858 | 53.70 | peak | 30.86 | 84.56 | 94.00 | 125 | 35 | -9.44 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

Radiated Emission Measurement

Operator: Sky
 Temperature: 22.6 °C
 Humidity: 74.2 %

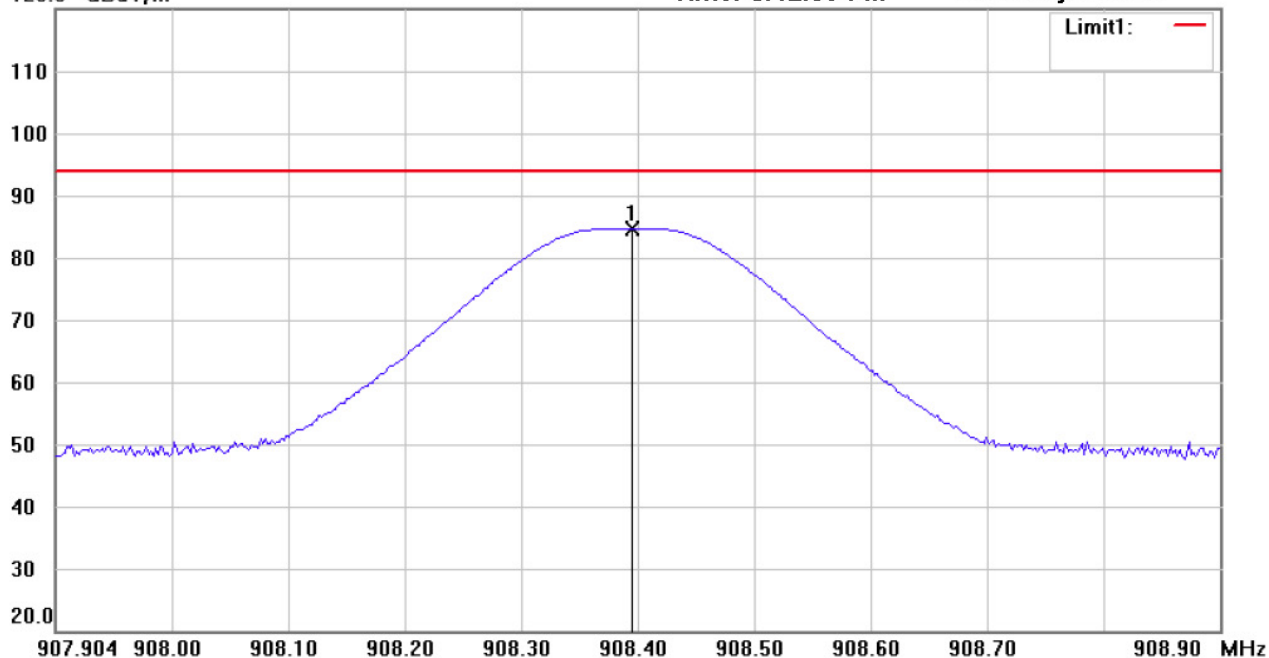
File : Power

Data : #2

Date: 6/13/2019

Time: 8:42:36 PM

120.0 dBuV/m



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M21905-19060

M/N:

Test Mode : TX 908.4MHz

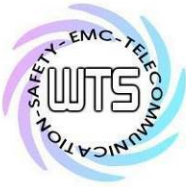
Note :

Polarization: *Vertical*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 908.3988 | 53.86 | peak | 30.86 | 84.72 | 94.00 | 105 | 359 | -9.28 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

Radiated Emission Measurement

Operator: Sky

File :Power

Data :#1

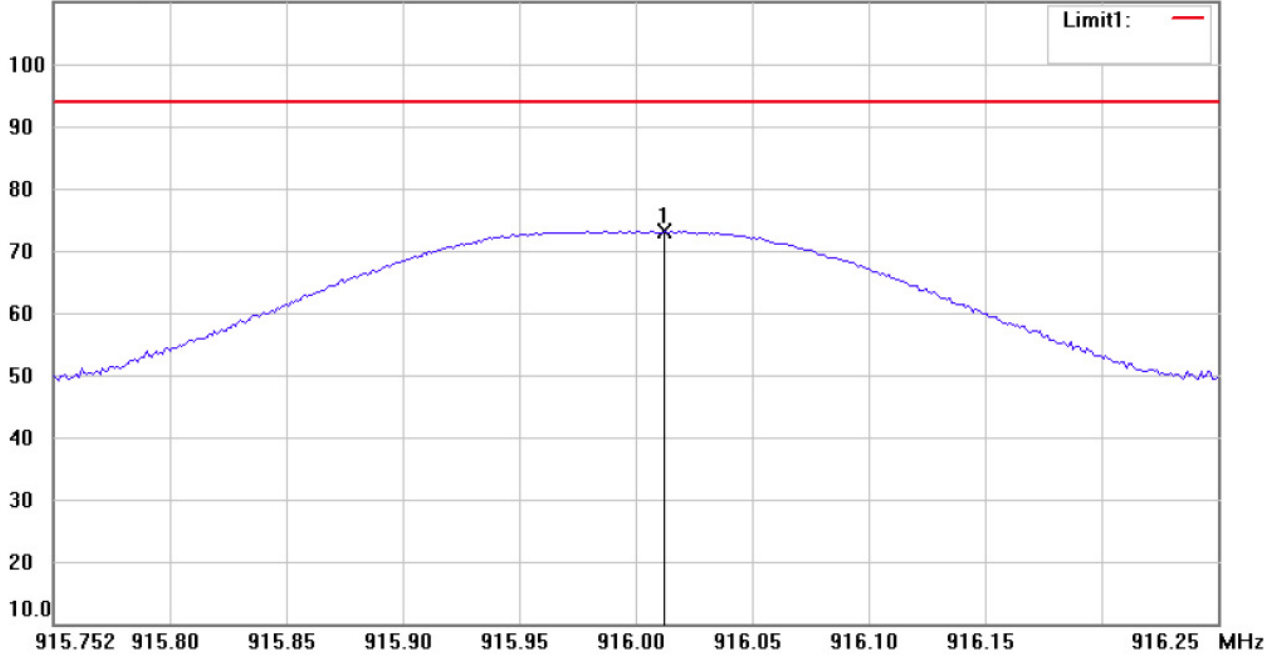
Date: 6/13/2019

Temperature:22.6 °C

110.0 dBuV/m

Time: 9:03:31 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC 15.249 power(902-928)_QP

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

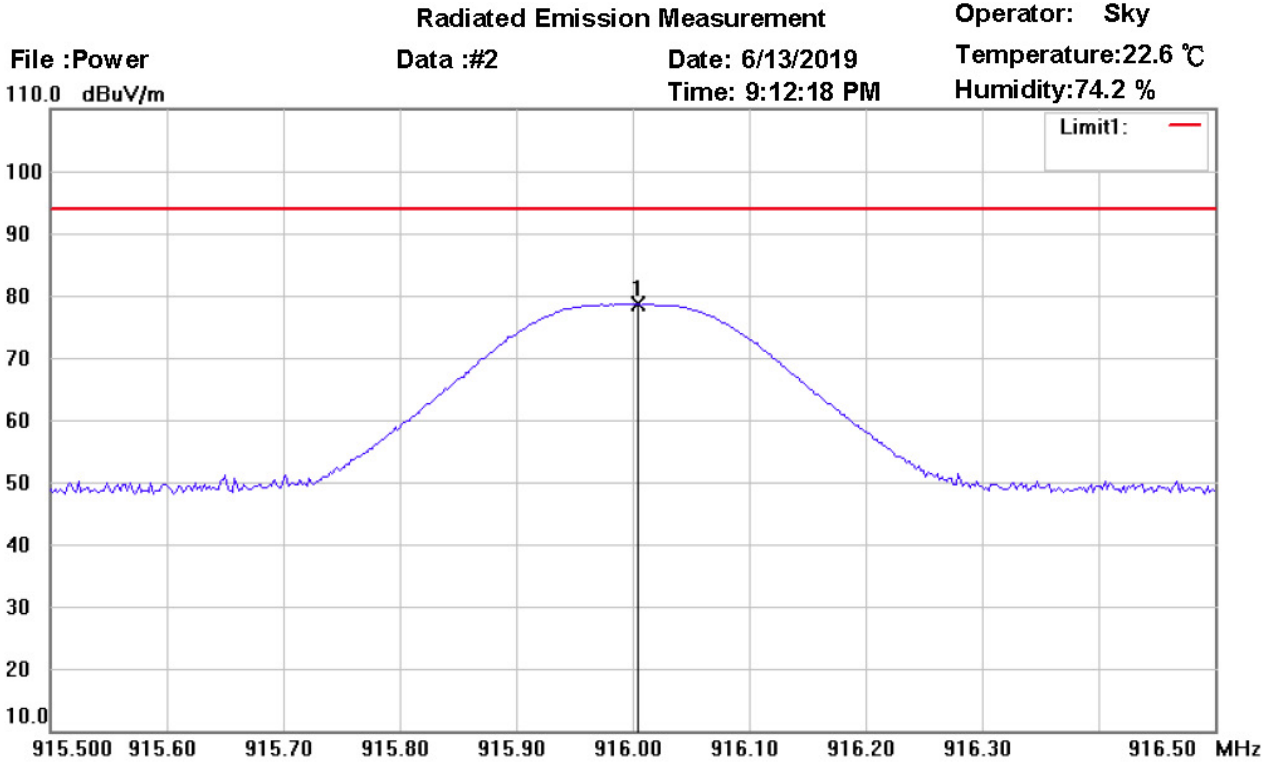
Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 916.0145 | 42.11 | peak | 31.01 | 73.12 | 94.00 | 180 | 30 | -20.88 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014



Site : Chamber
 Condition : FCC 15.249 power(902-928)_QP Polarization: *Vertical*
 EUT : W6M21905-19060 Power : 6 Vd.c.
 M/N: Distance: 3m
 Test Mode : TX 916MHz
 Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 916.0050 | 47.58 | peak | 31.01 | 78.59 | 94.00 | 100 | 360 | -15.41 | |

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147

3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.3 RF Exposure Compliance Requirements

Not applicable for this EUT for the low power level.



Registration number: W6M21905-19060-C-1
FCC ID: O3I-A32WG014
IC: 10365A-A32WG014

3.4 Out of Band Radiated Emissions

FCC Rule: 15.249 (d)(e), 15.35(b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

| Frequency of Emission (MHz) | Field strength (microvolts/meter) | Field Strength (dB microvolts/meter) |
|-----------------------------|-----------------------------------|--------------------------------------|
| 30 - 88 | 100 | 40.0 |
| 88 – 216 | 150 | 43.5 |
| 216 – 960 | 200 | 46.5 |
| Above 960 | 500 | 54.0 |

For frequencies above 1 GHz (Peak measurements).

Limit + 20 dB 54.0 dBμV/m + 20 dB= 74dBμV/m

Or

Must be attenuated at least 50dB below the level of fundament

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 030

Explanation: Please see attached diagram as appendix.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

3.5 Spurious emission (tx)

Spurious emission was measured with modulation (declared by manufacturer).

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

SAMPLE CALCULATION OF LIMIT. ALL results will be updated by an automatic measuring system in accordance with point 2.3.

The peak and average spurious emission plots was measured with the average limits.
 The critical peak value listed in the table agree with the above calculated limits.

Summary table with radiated data of the test plots

Model: A32-WG014 Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: Horizontal Humidity: -- %

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |

Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |

Note

1. Correction Factor = Antenna factor + Cable loss - Preamplifier
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Up Line: PK Limit Line, Down Line: Ave Limit Line.
6. Please see attached diagrams in appendix.

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 030, ETSTW-RE 088, ETSTW-RE 018



Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

3.6 Radiated Emissions from Receiver Part

Summary table with radiated data of the test plots

Model: A32-WG014 Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: -- Humidity: -- %

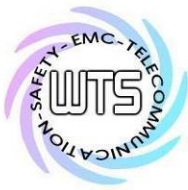
| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result @3m (dBuV/m) | | Limit @3m (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|---------------------|------|--------------------|------|-------------|---------------------|----------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Note

1. Correction Factor = Antenna factor + Cable loss - Preamplifier
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Please see attached diagrams in appendix.

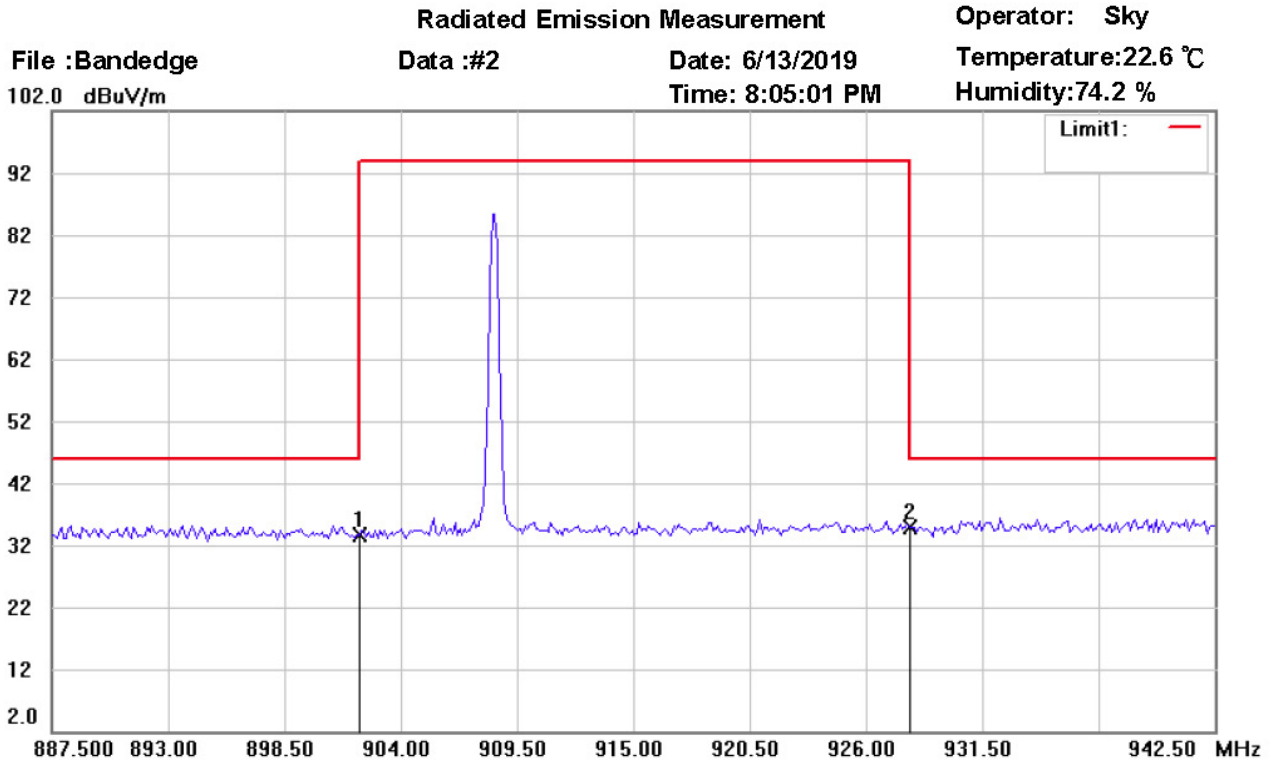
Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 030



Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and they are at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).



Site : Chamber
 Condition : FCC 15.249 Bandedge(902-928)_QP Polarization: *Horizontal*
 EUT : W6M21905-19060 Power : 6 Vd.c.
 M/N: Distance: 3m
 Test Mode : TX 908.42MHz
 Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 902.0000 | 2.89 | peak | 30.73 | 33.62 | 46.00 | 210 | 160 | -12.38 | |
| * | 928.0000 | 3.56 | peak | 31.25 | 34.81 | 46.00 | 210 | 160 | -11.19 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

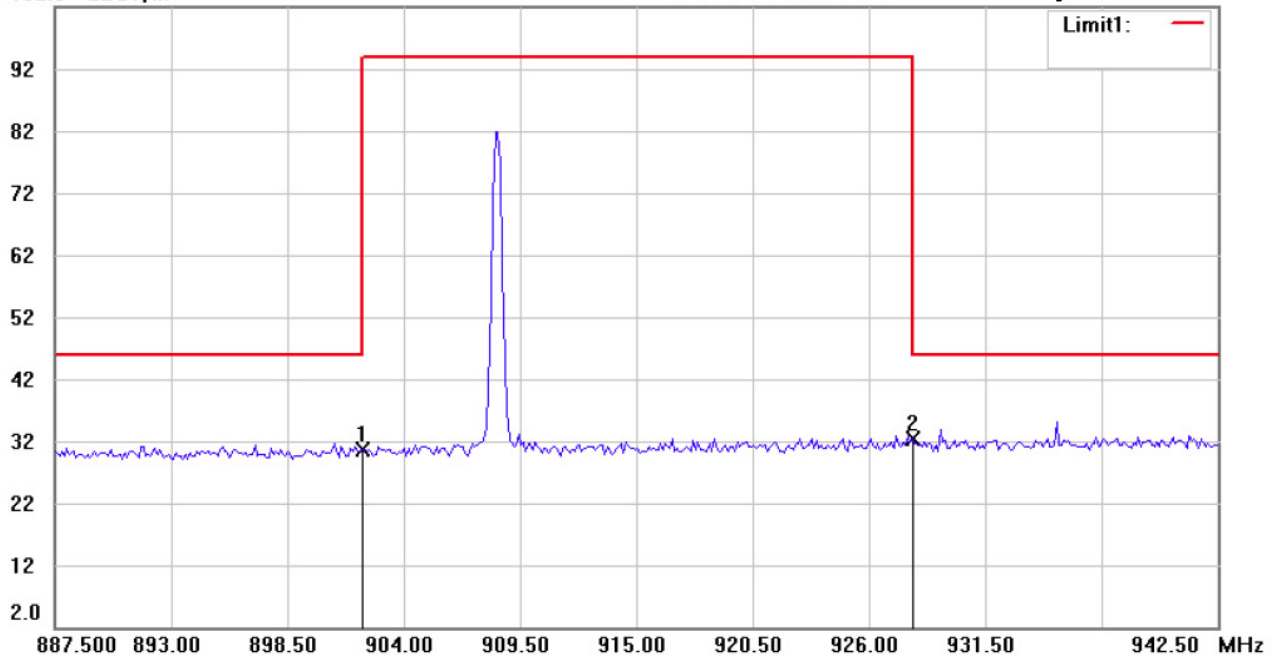
Radiated Emission Measurement

Operator: Sky
 Temperature: 22.6 °C
 Humidity: 74.2 %

File : Bandedge
 102.0 dBuV/m

Data : #1

Date: 6/13/2019
 Time: 8:02:16 PM



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

EUT : W6M21905-19060

M/N:

Test Mode : TX 908.42MHz

Note :

Polarization: *Vertical*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 902.0490 | -0.08 | peak | 30.73 | 30.65 | 94.00 | 110 | 359 | -63.35 | |
| * | 928.0600 | 1.23 | peak | 31.25 | 32.48 | 46.00 | 110 | 359 | -13.52 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

Radiated Emission Measurement

Operator: Sky
 Temperature: 22.6 °C
 Humidity: 74.2 %

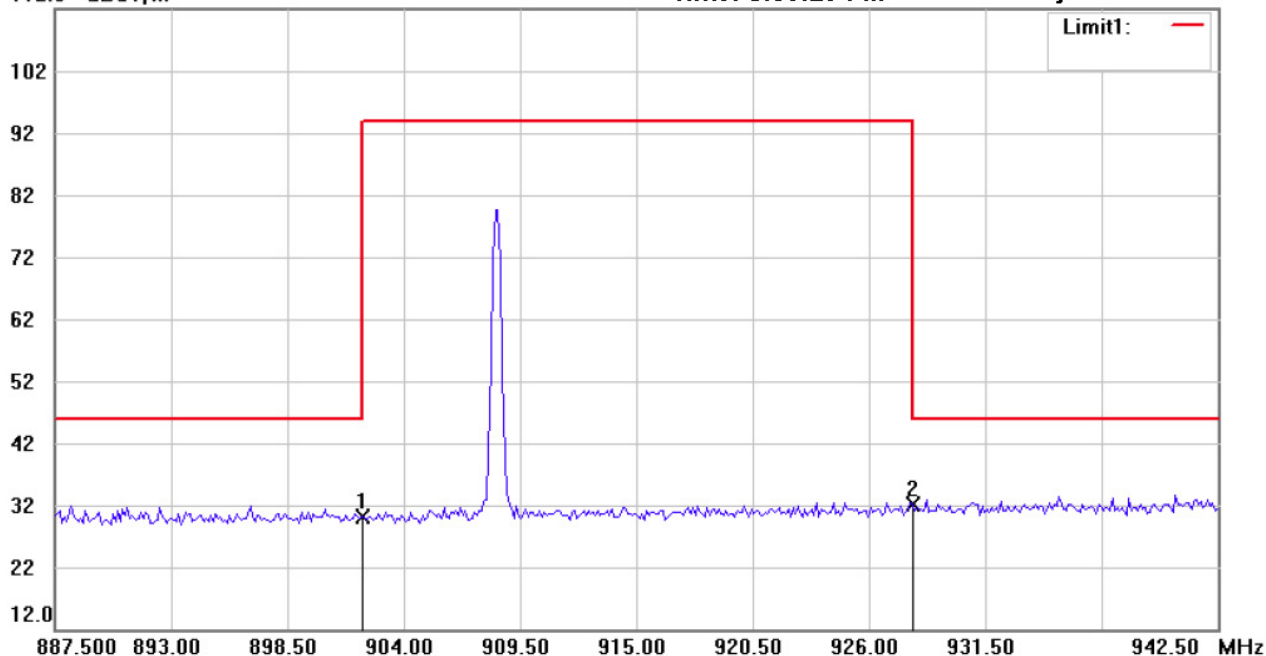
File : Bandedge

Data : #1

Date: 6/13/2019

Time: 8:36:20 PM

112.0 dBuV/m



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

EUT : W6M21905-19060

M/N:

Test Mode : TX 908.4MHz

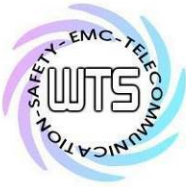
Note :

Polarization: *Horizontal*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 902.0000 | -0.52 | peak | 30.73 | 30.21 | 46.00 | 125 | 35 | -15.79 | |
| * | 928.0000 | 0.79 | peak | 31.25 | 32.04 | 46.00 | 125 | 35 | -13.96 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

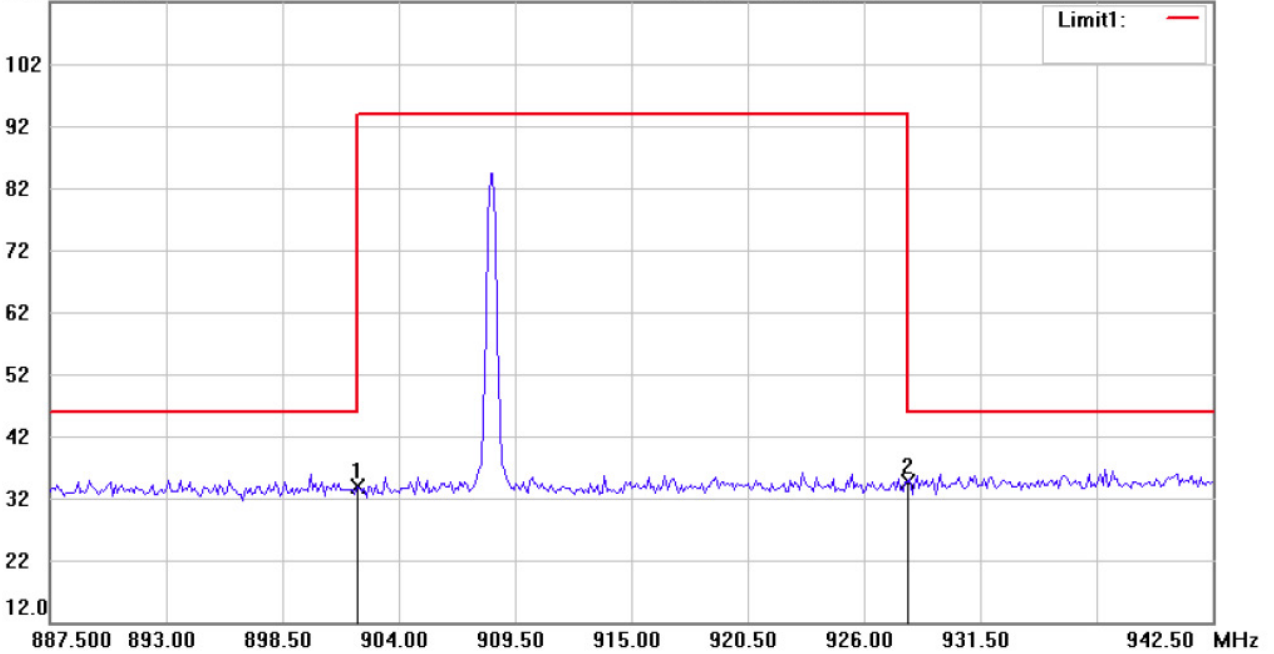
Radiated Emission Measurement

Operator: Sky
 Temperature: 22.6 °C
 Humidity: 74.2 %

File : Bandedge
 112.0 dBuV/m

Data : #2

Date: 6/13/2019
 Time: 8:43:48 PM



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

EUT : W6M21905-19060

M/N:

Test Mode : TX 908.4MHz

Note :

Polarization: *Vertical*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 902.0000 | 3.11 | peak | 30.73 | 33.84 | 46.00 | 105 | 359 | -12.16 | |
| * | 928.0000 | 3.39 | peak | 31.25 | 34.64 | 46.00 | 105 | 359 | -11.36 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

Radiated Emission Measurement

Operator: Sky
 Temperature: 22.6 °C
 Humidity: 74.2 %

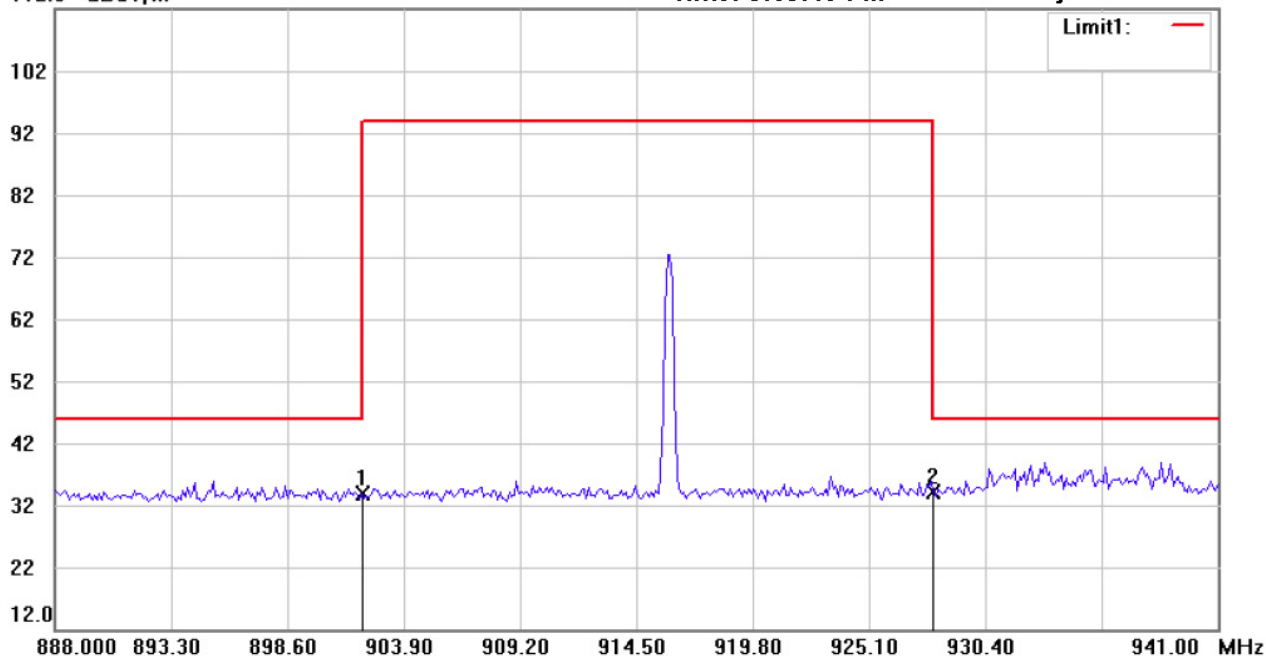
File : Bandedge

Data : #1

Date: 6/13/2019

Time: 9:05:10 PM

112.0 dBuV/m



Site : Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

EUT : W6M21905-19060

M/N:

Test Mode : TX 916MHz

Note :

Polarization: *Horizontal*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 902.0000 | 3.11 | peak | 30.73 | 33.84 | 46.00 | 180 | 30 | -12.16 | |
| * | 928.0000 | 2.95 | peak | 31.25 | 34.20 | 46.00 | 180 | 30 | -11.80 | |

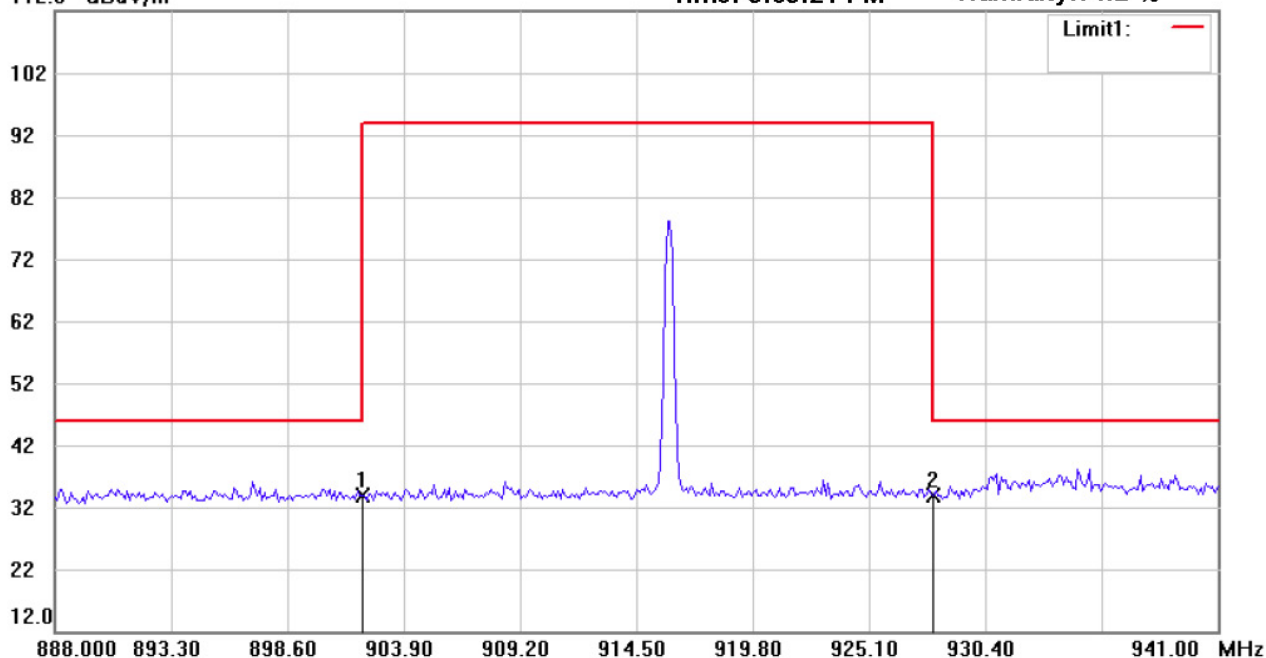


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

Radiated Emission Measurement

File :Bandedge Data :#2 Date: 6/13/2019 Operator: Sky
 112.0 dBuV/m Time: 9:09:21 PM Temperature:22.6 °C
 Humidity:74.2 %



Site : Chamber
 Condition : FCC 15.249 Bandedge(902-928)_QP Polarization: *Vertical*
 EUT : W6M21905-19060 Power : 6 Vd.c.
 M/N: Distance: 3m
 Test Mode : TX 916MHz
 Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 902.0000 | 3.19 | peak | 30.73 | 33.92 | 46.00 | 100 | 360 | -12.08 | |
| | 928.0000 | 2.60 | peak | 31.25 | 33.85 | 46.00 | 100 | 360 | -12.15 | |

Limit:

| Frequency Range (MHz) | Limit (dB μ V/m) | |
|-----------------------|----------------------|---------|
| | Peak | Average |
| 902 – 928 | 114 | 94 |
| 2400 – 2483.5 | 74 | 54 |
| 5725 – 5875 | 74 | 54 |

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147



Registration number: W6M21905-19060-C-1
 FCC ID: O3I-A32WG014
 IC: 10365A-A32WG014

3.8 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

| Frequency | Level (dBμV) | |
|-----------|------------------|------------------|
| | quasi-peak | average |
| 150 kHz | lower limit line | Lower limit line |

- Note:**
1. The formula of measured value as: **Test Result = Reading + Correction Factor**
 2. The Correction Factor = Cable Loss + LISN Insertion Loss
 3. Detector function in the form : **PK = Peak, QP = Qusai Peak, AV = Average**
 4. All not in the table noted test results are more than 20 dB below the relevant limits.
 5. Up Line: QP Limit Line, Down Line: Ave Limit Line.
 6. This test is not required because EUT is battery-used.

Limits:

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|----------|
| | Quasi Peak | Average |
| 0.15-0.5 | 66 to 56 | 56 to 46 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-RE 045.



Registration number: W6M21905-19060-C-1
FCC ID: O3I-A32WG014
IC: 10365A-A32WG014

Appendix

A Photos

1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission

B Measurement diagrams

1. Spurious Emissions radiated



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

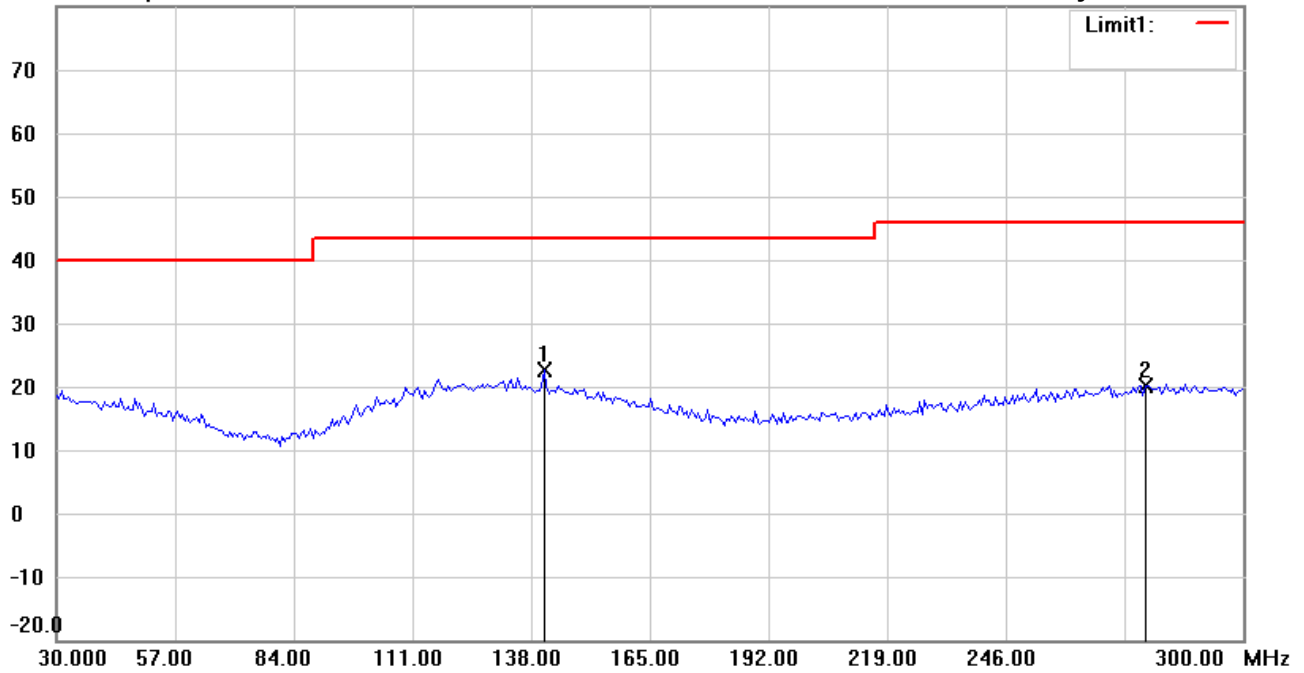
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 8:12:01 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 140.9217 | 29.22 | peak | -6.58 | 22.64 | 43.50 | 100 | 160 | -20.86 | |
| | 277.8156 | 26.81 | peak | -6.57 | 20.24 | 46.00 | 100 | 115 | -25.76 | |



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

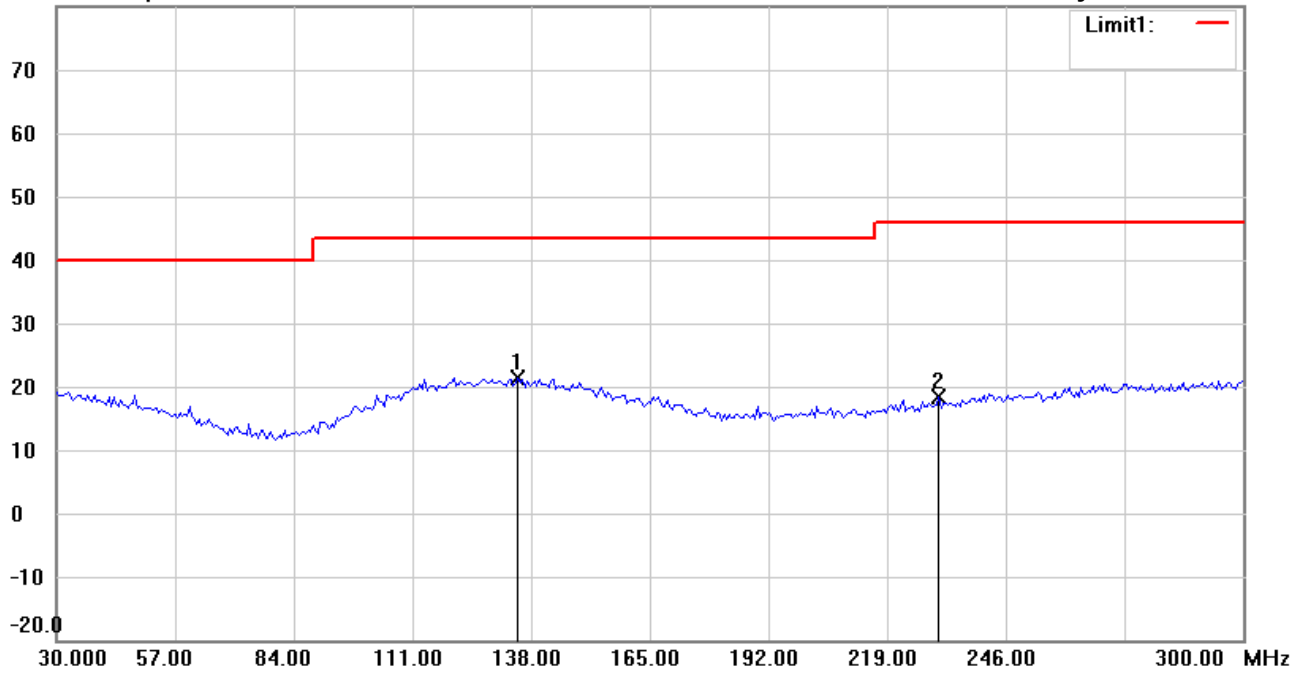
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 8:13:38 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21905-19060

M/N:

Test Mode : TX 908.42MHz

Note :

Polarization: **Vertical**

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 134.9698 | 27.72 | peak | -6.39 | 21.33 | 43.50 | 100 | 55 | -22.17 | |
| | 230.7415 | 27.35 | peak | -9.03 | 18.32 | 46.00 | 100 | 315 | -27.68 | |



Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

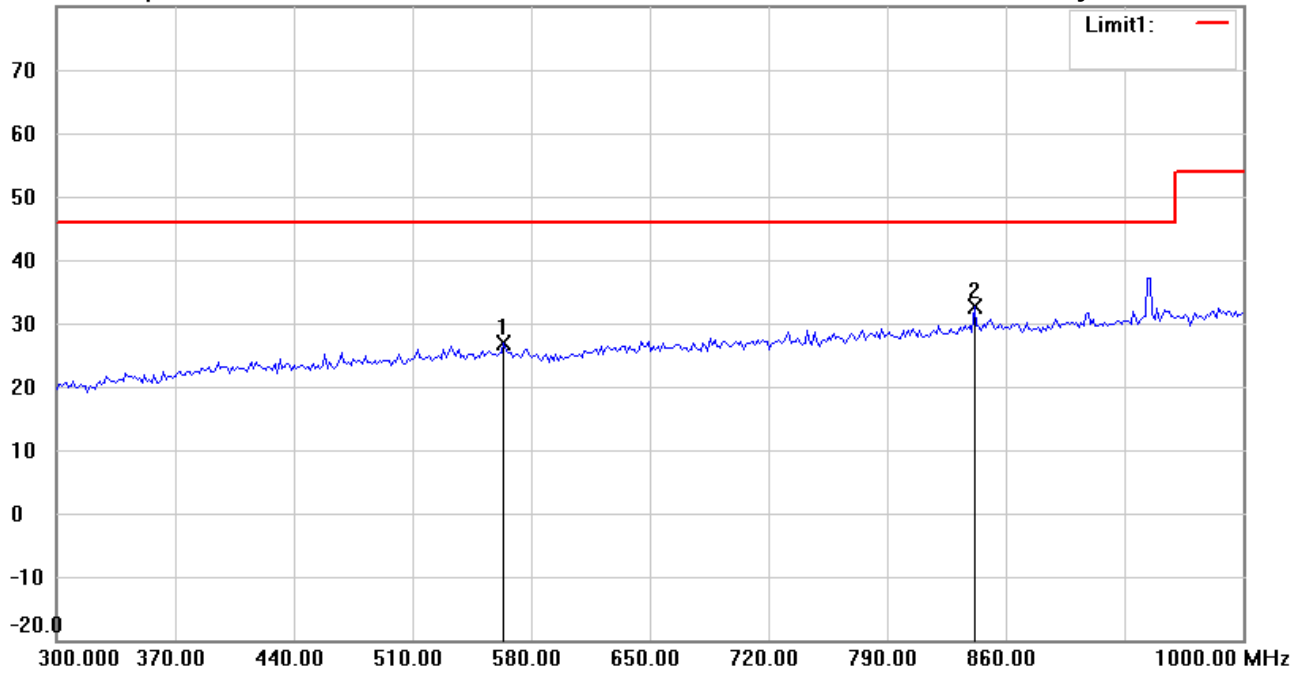
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 8:21:06 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 563.7274 | 28.94 | peak | -2.17 | 26.77 | 46.00 | 100 | 60 | -19.23 | |
| * | 841.4830 | 30.13 | peak | 2.39 | 32.52 | 46.00 | 100 | 190 | -13.48 | |



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

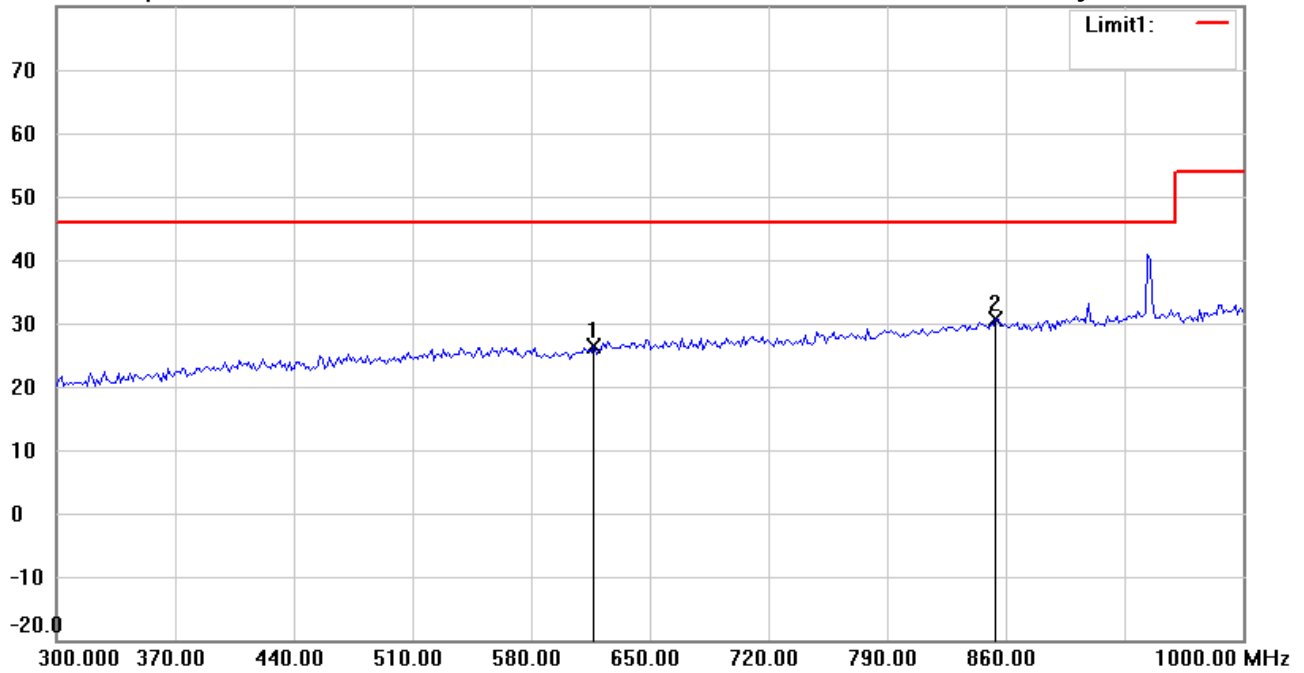
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 8:23:00 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 617.0340 | 28.11 | peak | -1.73 | 26.38 | 46.00 | 100 | 170 | -19.62 | |
| * | 854.1082 | 27.95 | peak | 2.69 | 30.64 | 46.00 | 100 | 225 | -15.36 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

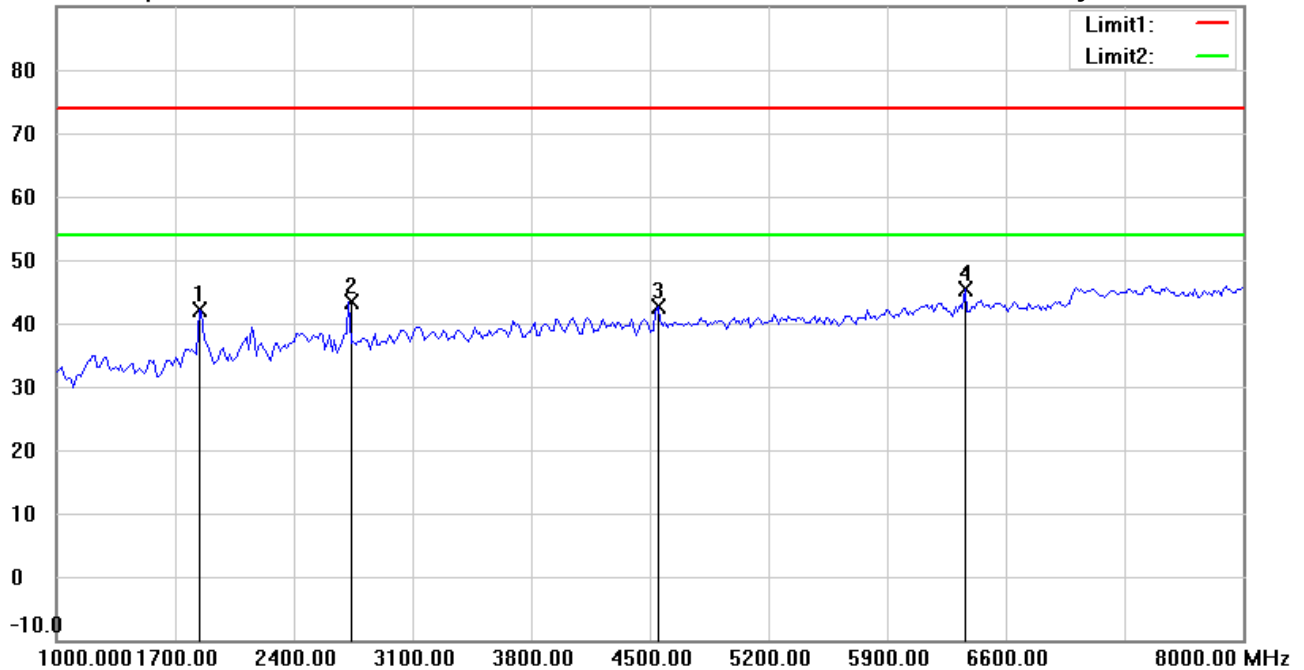
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 10:01:42 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 1841.683 | 49.87 | peak | -7.63 | 42.24 | 74.00 | 150 | 215 | -31.76 | |
| | 2725.451 | 48.60 | peak | -5.27 | 43.33 | 74.00 | 150 | 20 | -30.67 | |
| | 4549.098 | 45.09 | peak | -2.44 | 42.65 | 74.00 | 150 | 160 | -31.35 | |
| * | 6358.717 | 43.58 | peak | 1.91 | 45.49 | 74.00 | 150 | 70 | -28.51 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

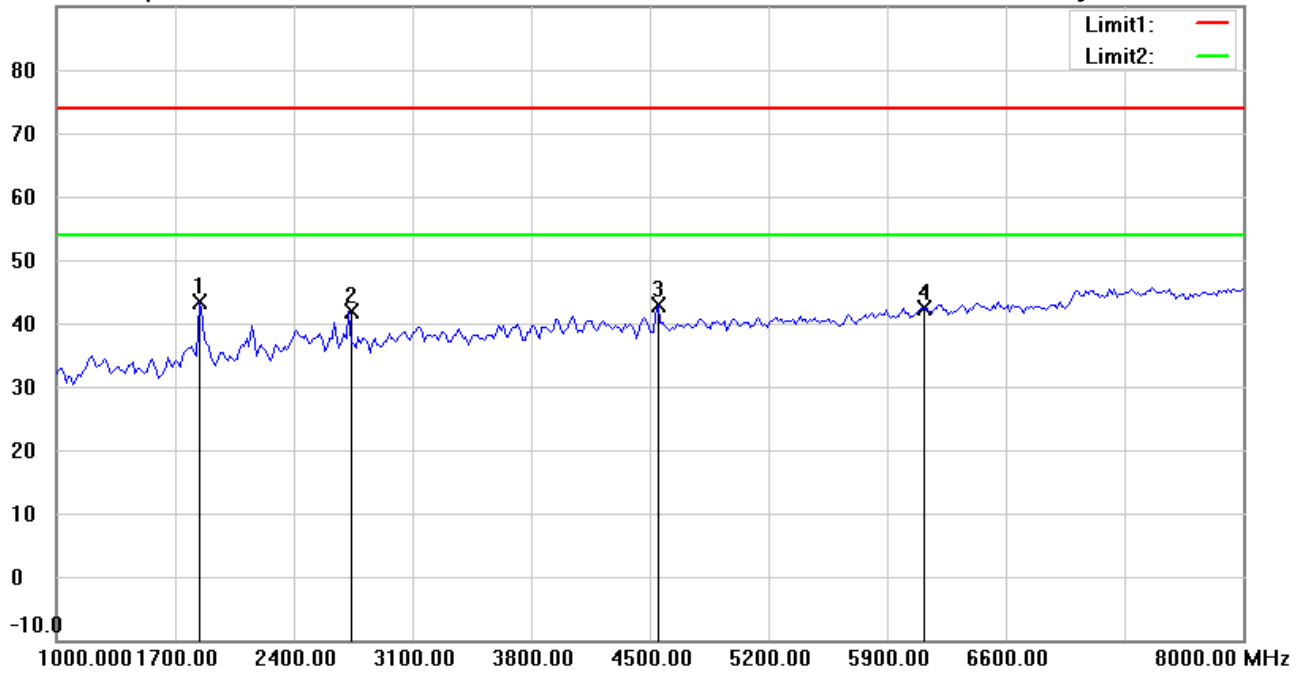
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 10:03:31 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 1841.683 | 51.05 | peak | -7.63 | 43.42 | 74.00 | 150 | 20 | -30.58 | |
| | 2725.451 | 47.03 | peak | -5.27 | 41.76 | 74.00 | 150 | 50 | -32.24 | |
| | 4549.098 | 45.25 | peak | -2.44 | 42.81 | 74.00 | 150 | 195 | -31.19 | |
| | 6120.240 | 40.88 | peak | 1.60 | 42.48 | 74.00 | 150 | 160 | -31.52 | |



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

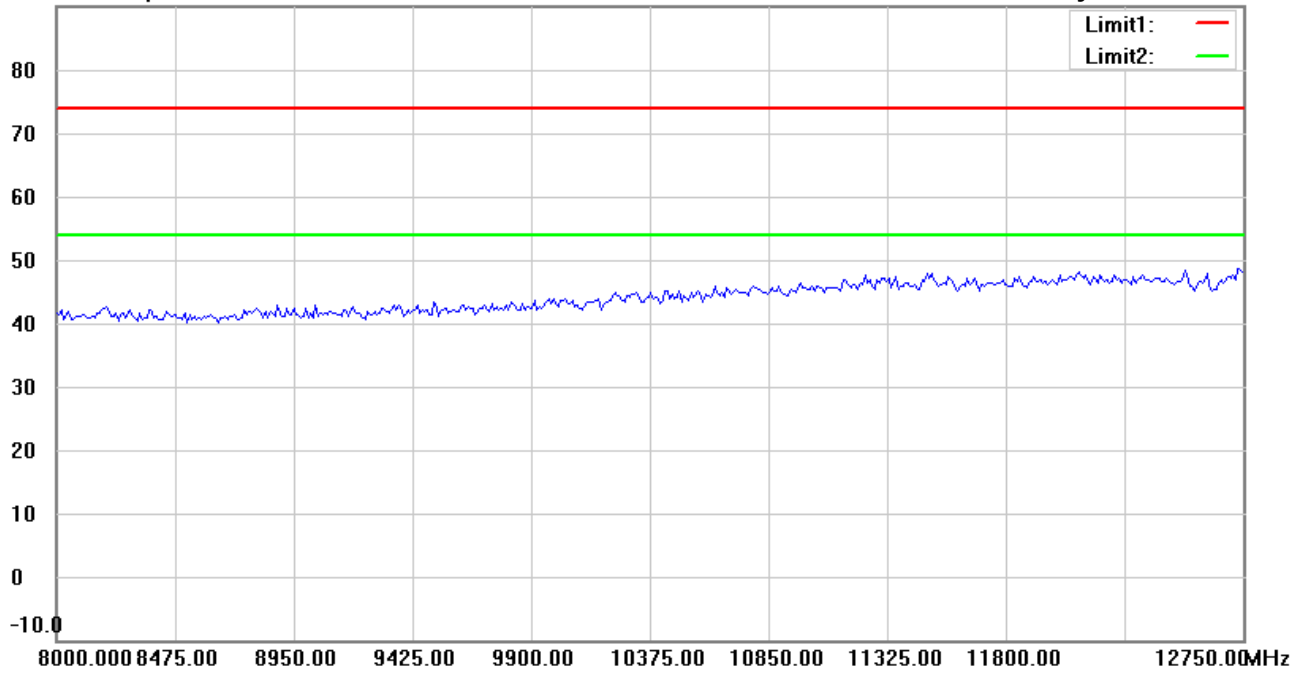
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 10:05:35 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

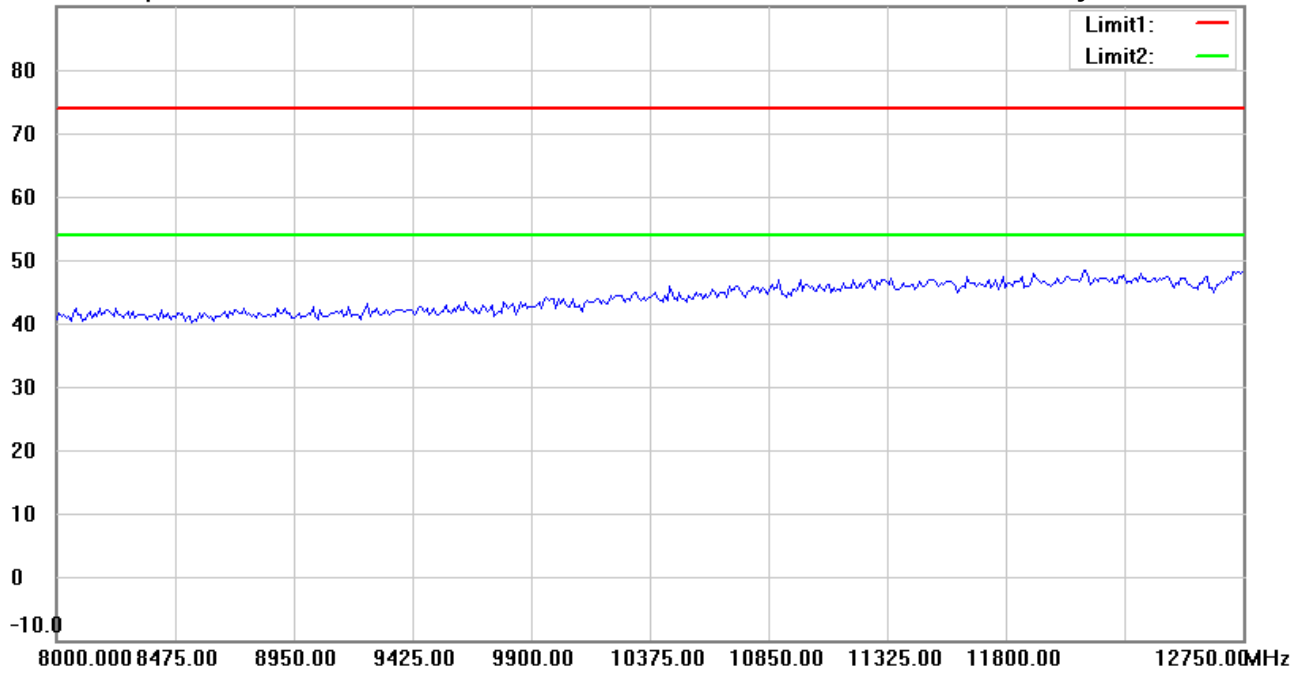
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 10:07:08 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

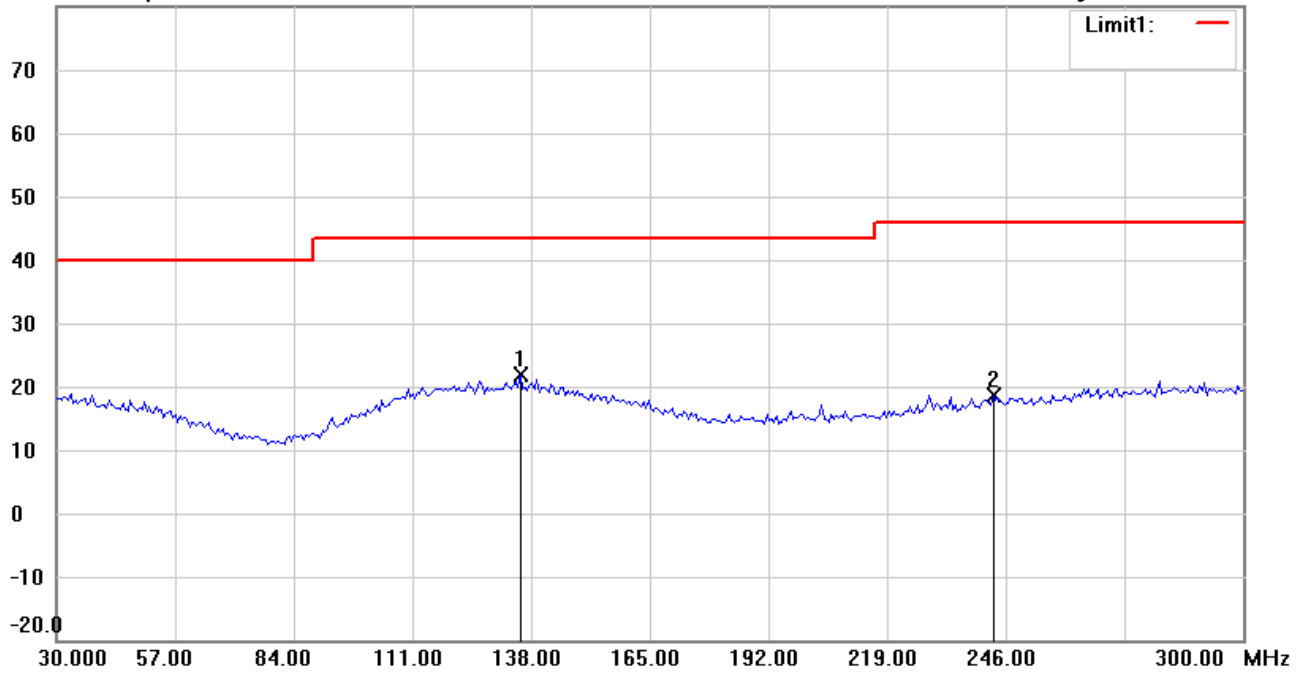
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 8:48:20 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 135.5110 | 28.36 | peak | -6.41 | 21.95 | 43.50 | 100 | 20 | -21.55 | |
| | 243.1863 | 27.01 | peak | -8.37 | 18.64 | 46.00 | 100 | 90 | -27.36 | |



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

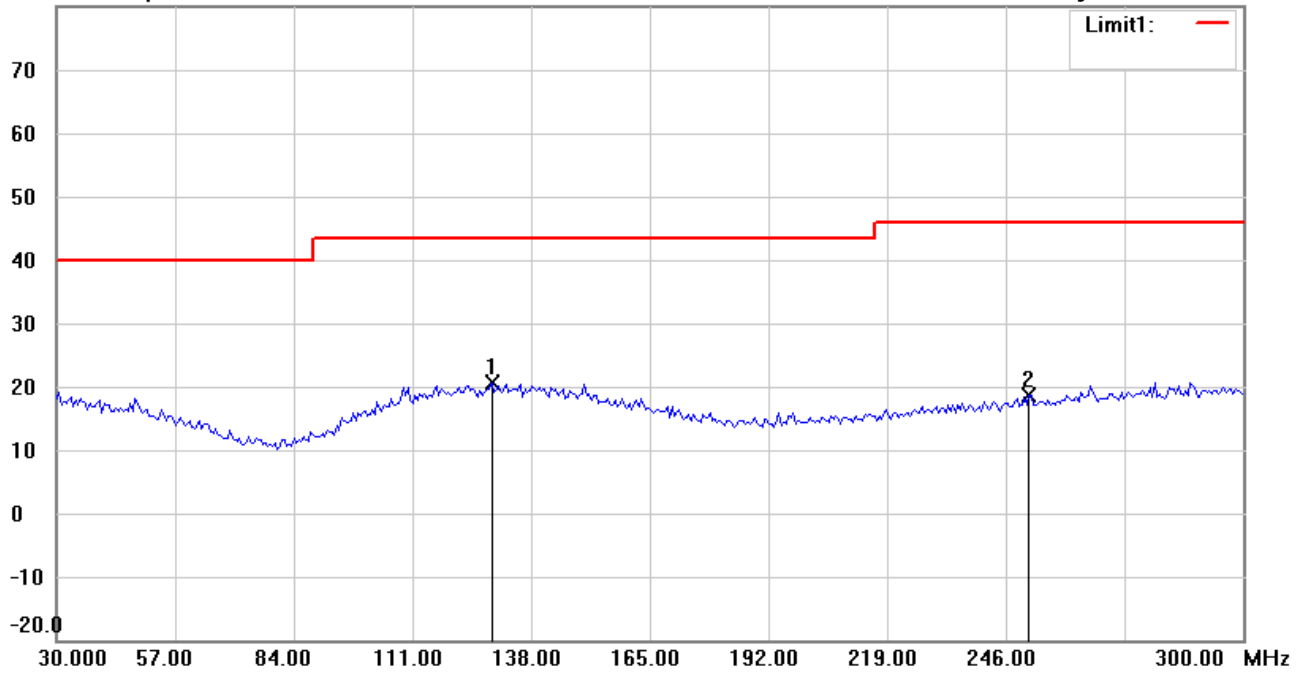
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 8:48:50 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21905-19060

M/N:

Test Mode : TX 908.4MHz

Note :

Polarization: **Vertical**

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 129.0180 | 26.93 | peak | -6.32 | 20.61 | 43.50 | 100 | 10 | -22.89 | |
| | 251.3026 | 26.53 | peak | -7.93 | 18.60 | 46.00 | 100 | 195 | -27.40 | |



Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

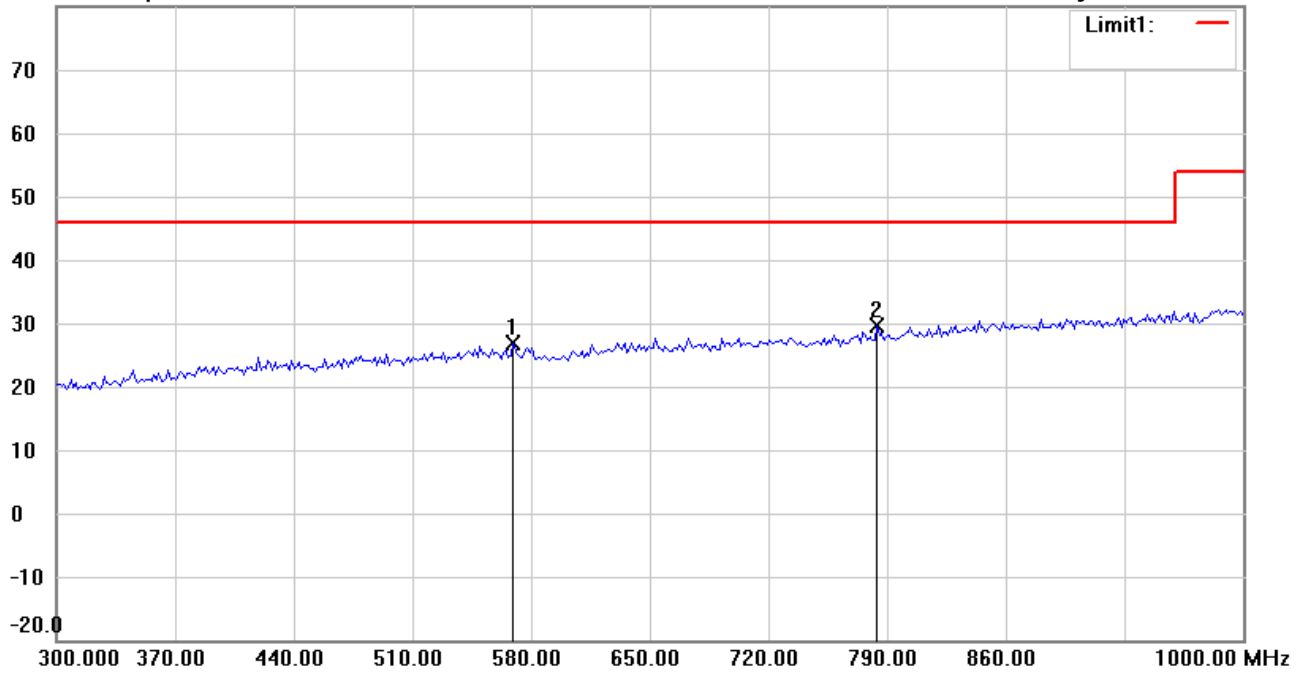
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 8:52:43 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 569.3387 | 29.18 | peak | -2.21 | 26.97 | 46.00 | 100 | 45 | -19.03 | |
| * | 783.9678 | 28.84 | peak | 0.87 | 29.71 | 46.00 | 100 | 135 | -16.29 | |



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

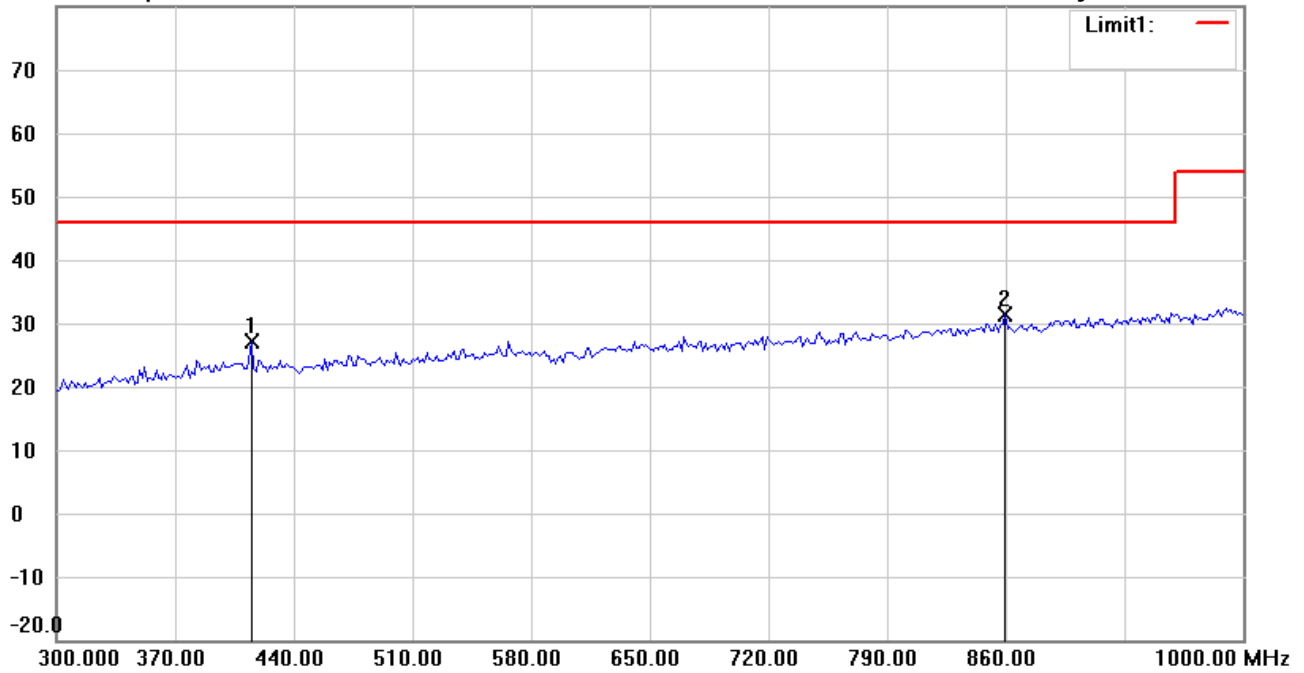
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 8:53:53 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: **Vertical**

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 415.0300 | 31.16 | peak | -3.92 | 27.24 | 46.00 | 100 | 315 | -18.76 | |
| * | 859.7193 | 28.66 | peak | 2.75 | 31.41 | 46.00 | 100 | 200 | -14.59 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

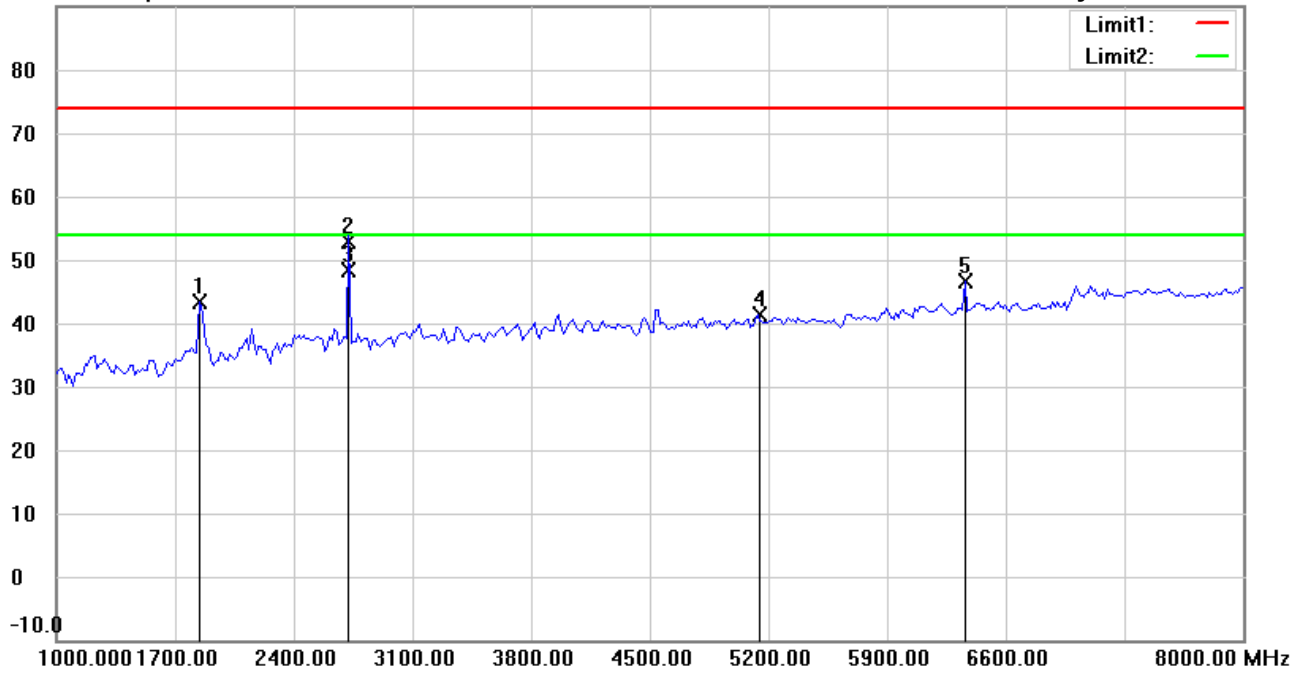
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 9:42:35 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21905-19060

M/N:

Test Mode : TX 908.4MHz

Note :

Polarization: *Horizontal*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 1841.683 | 51.07 | peak | -7.63 | 43.44 | 74.00 | 150 | 225 | -30.56 | |
| | 2725.213 | 58.15 | peak | -5.27 | 52.88 | 74.00 | 150 | 310 | -21.12 | |
| * | 2725.213 | 53.75 | AVG | -5.27 | 48.48 | 54.00 | 150 | 310 | -5.52 | |
| | 5138.277 | 42.28 | peak | -0.90 | 41.38 | 74.00 | 150 | 35 | -32.62 | |
| | 6358.717 | 44.75 | peak | 1.91 | 46.66 | 74.00 | 100 | 160 | -27.34 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

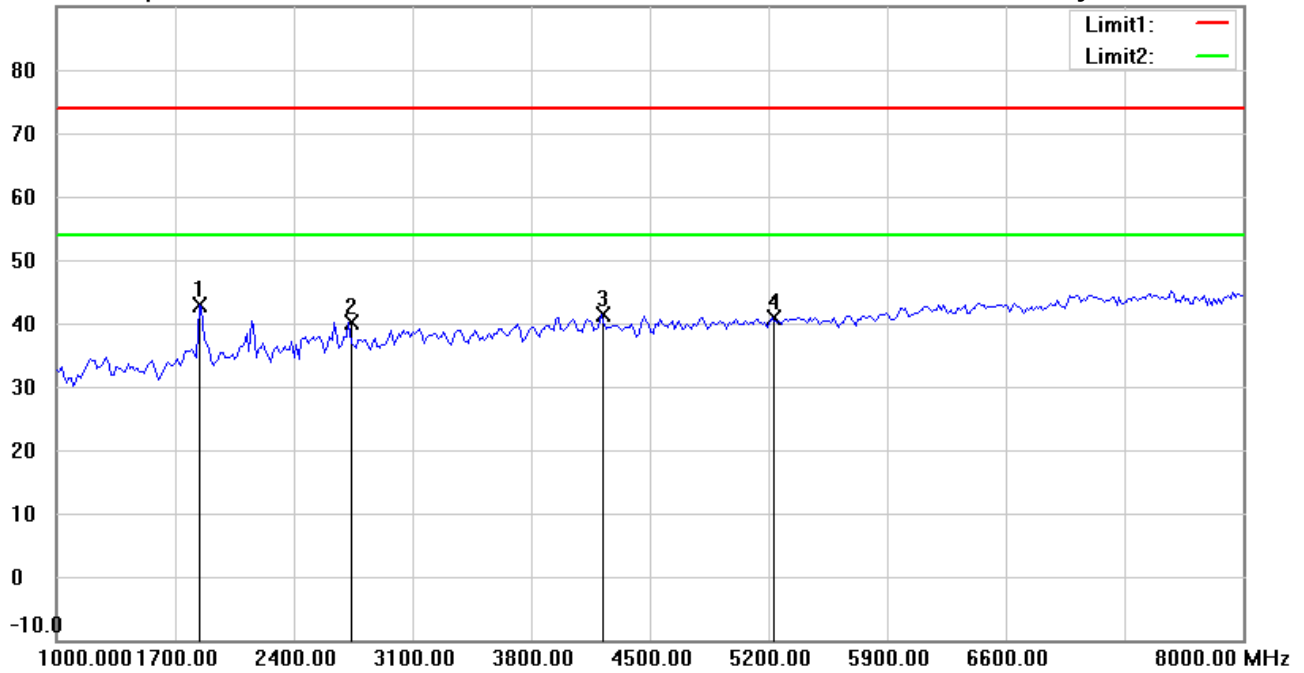
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 9:53:20 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 1841.683 | 50.51 | peak | -7.63 | 42.88 | 74.00 | 150 | 30 | -31.12 | |
| | 2725.451 | 45.47 | peak | -5.27 | 40.20 | 74.00 | 150 | 80 | -33.80 | |
| | 4212.425 | 43.64 | peak | -2.16 | 41.48 | 74.00 | 150 | 225 | -32.52 | |
| | 5222.445 | 41.55 | peak | -0.55 | 41.00 | 74.00 | 150 | 160 | -33.00 | |



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

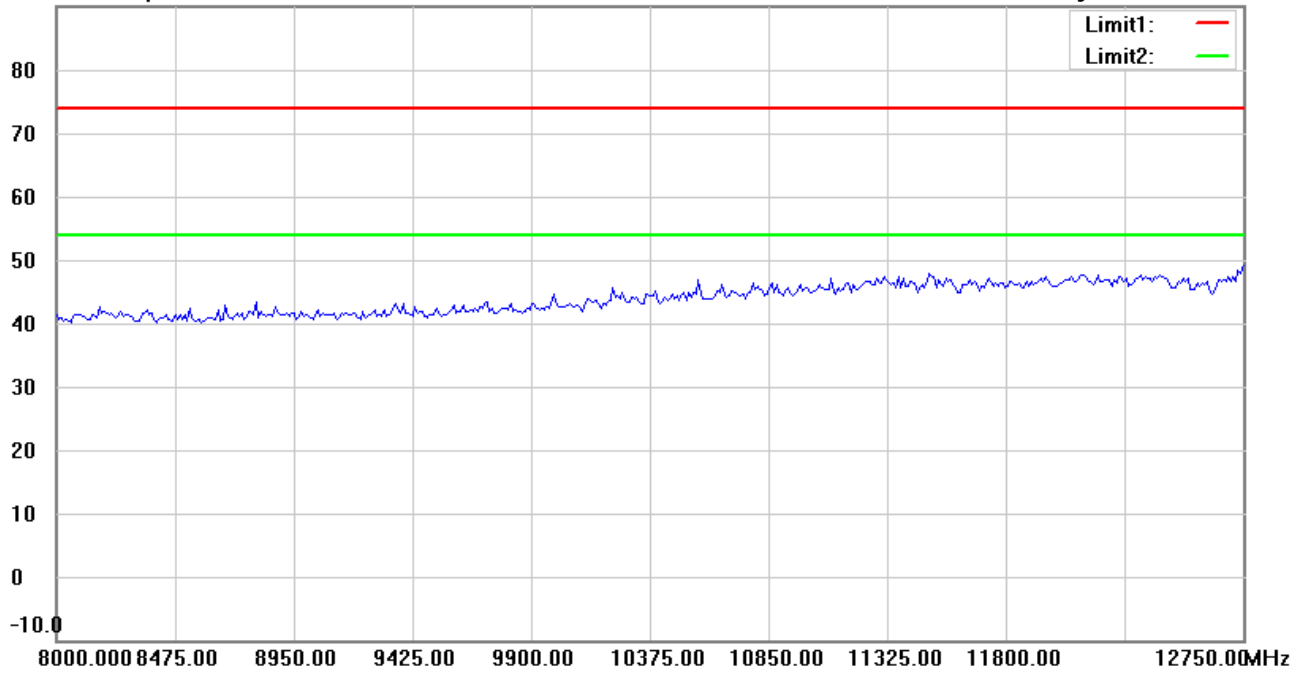
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 9:56:23 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

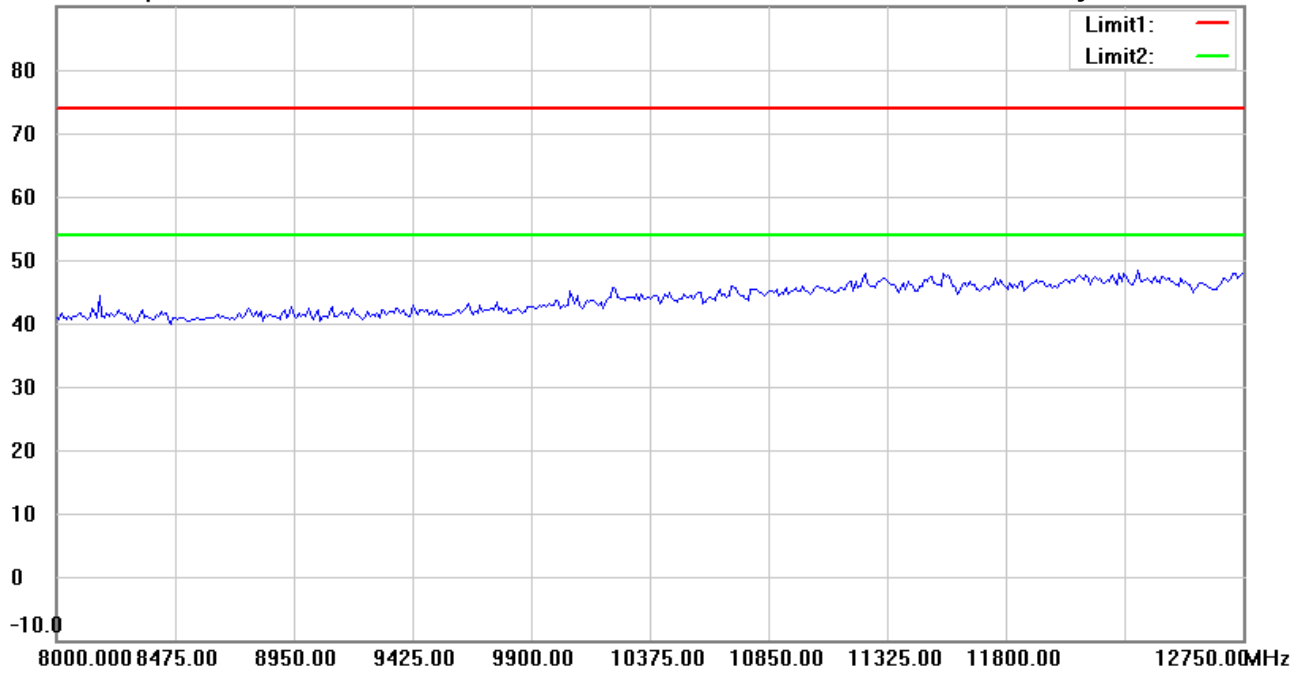
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 9:55:10 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

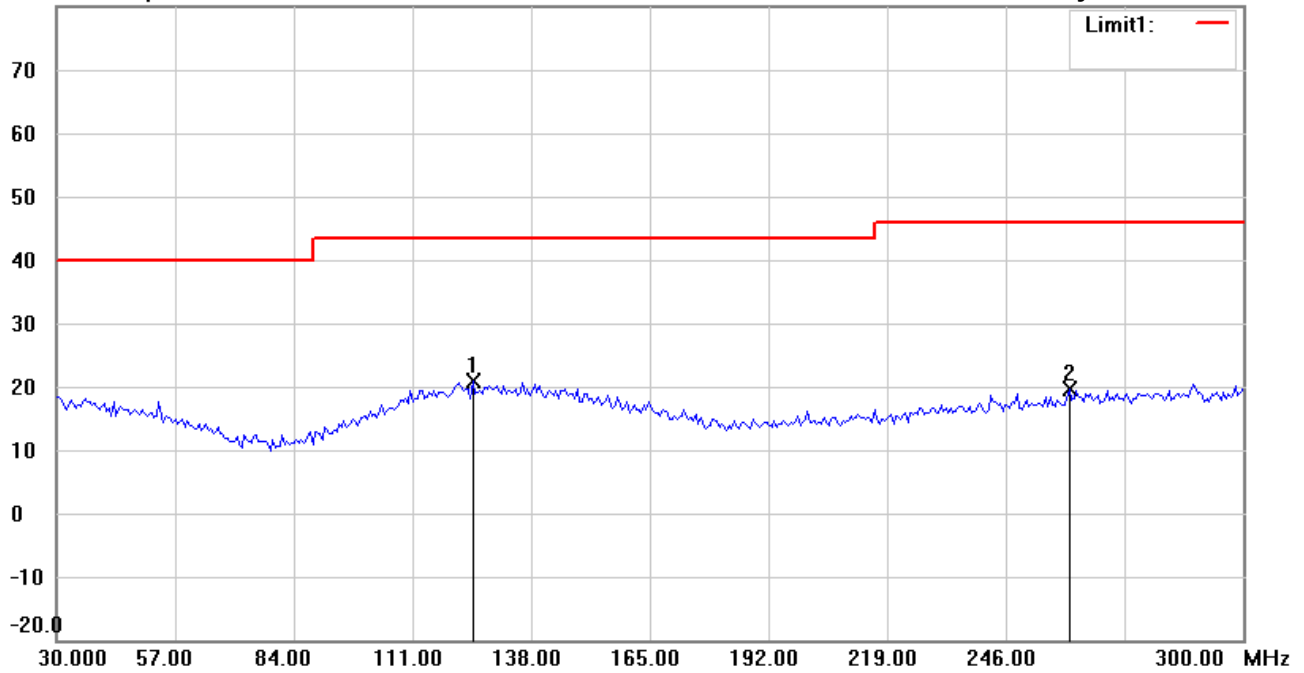
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 9:15:56 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21905-19060

M/N:

Test Mode : TX 916MHz

Note :

Polarization: *Horizontal*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 124.6894 | 27.35 | peak | -6.44 | 20.91 | 43.50 | 100 | 35 | -22.59 | |
| | 260.5010 | 27.07 | peak | -7.41 | 19.66 | 46.00 | 100 | 100 | -26.34 | |



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

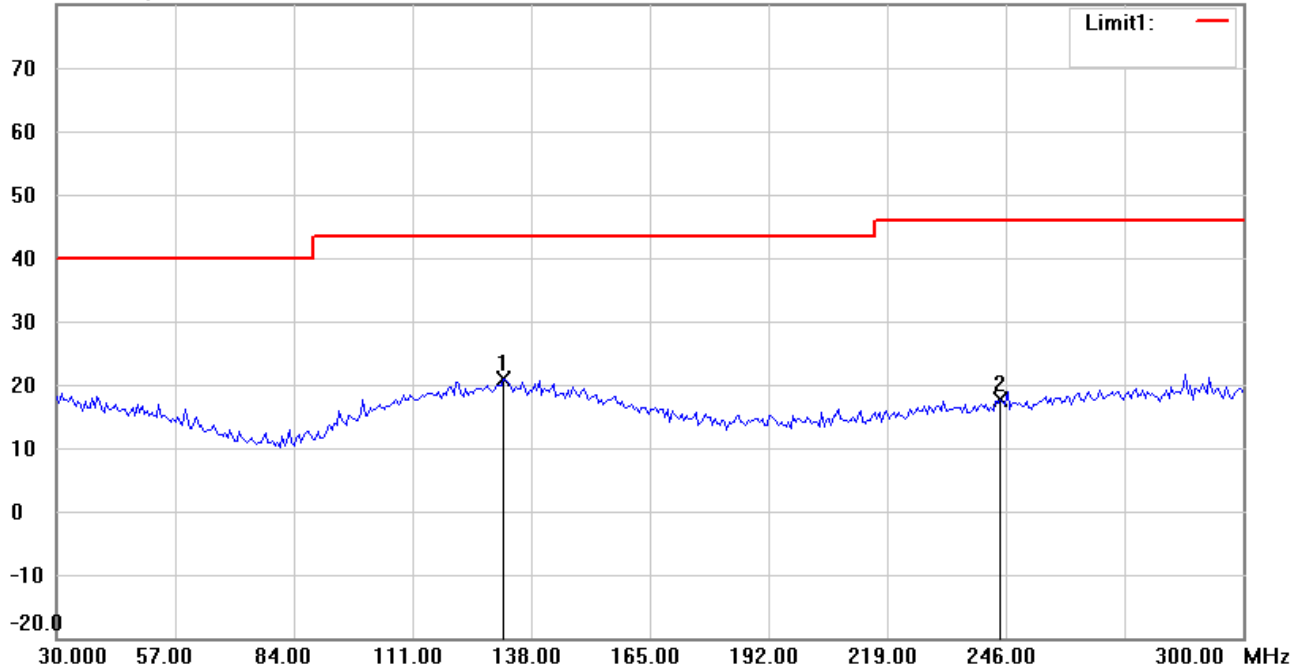
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 9:16:40 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21905-19060

M/N:

Test Mode : TX 916MHz

Note :

Polarization: *Vertical*

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 131.7233 | 27.11 | peak | -6.33 | 20.78 | 43.50 | 100 | 255 | -22.72 | |
| | 244.8095 | 25.83 | peak | -8.29 | 17.54 | 46.00 | 100 | 80 | -28.46 | |



Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

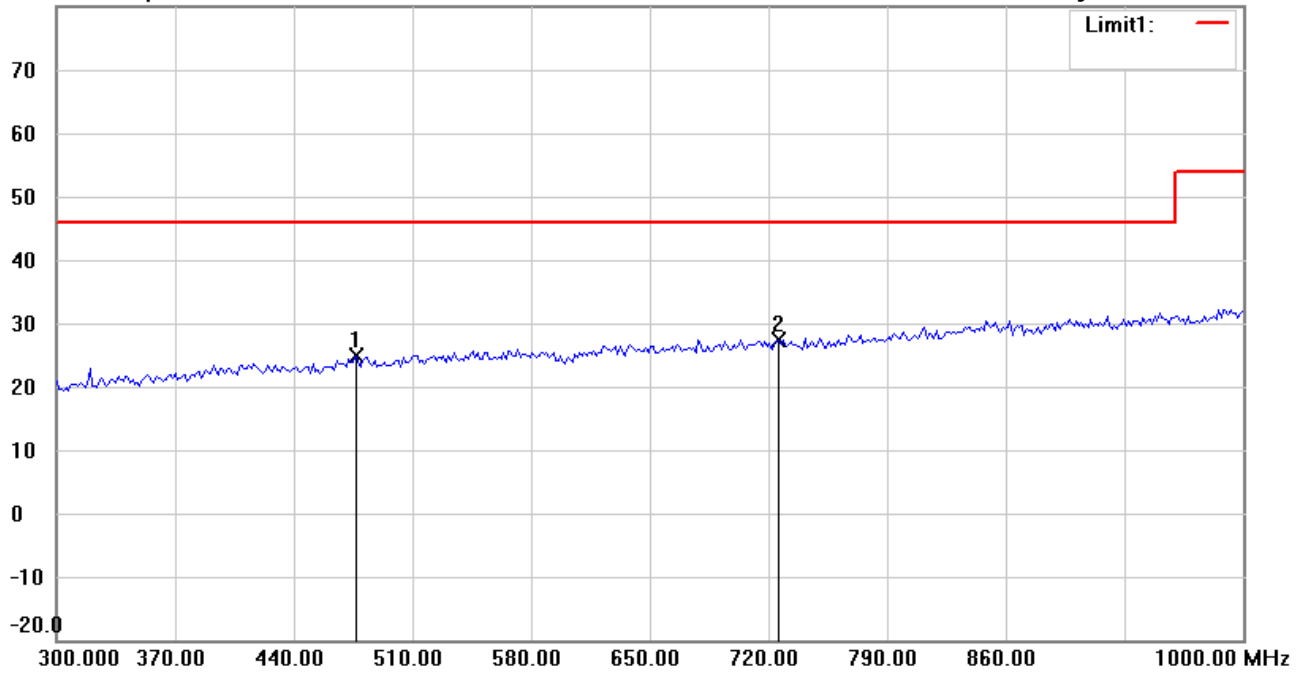
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 9:18:55 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 476.7533 | 28.10 | peak | -3.32 | 24.78 | 46.00 | 100 | 65 | -21.22 | |
| * | 726.4528 | 27.53 | peak | -0.11 | 27.42 | 46.00 | 100 | 345 | -18.58 | |



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

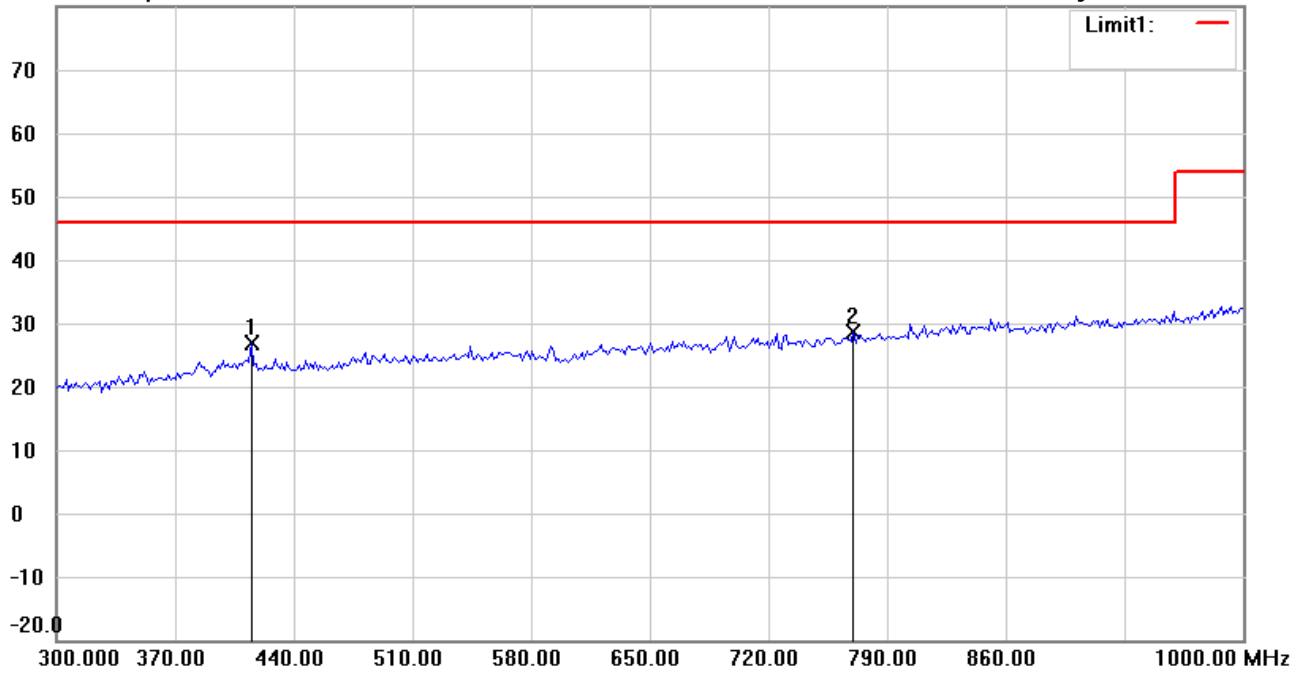
Date: 6/13/2019

Temperature:22.6 °C

80.0 dBuV/m

Time: 9:20:13 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21905-19060

M/N:

Test Mode : TX 916MHz

Note :

Polarization: **Vertical**

Power : 6 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 415.0300 | 30.68 | peak | -3.92 | 26.76 | 46.00 | 100 | 120 | -19.24 | |
| * | 769.9397 | 28.00 | peak | 0.59 | 28.59 | 46.00 | 100 | 105 | -17.41 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

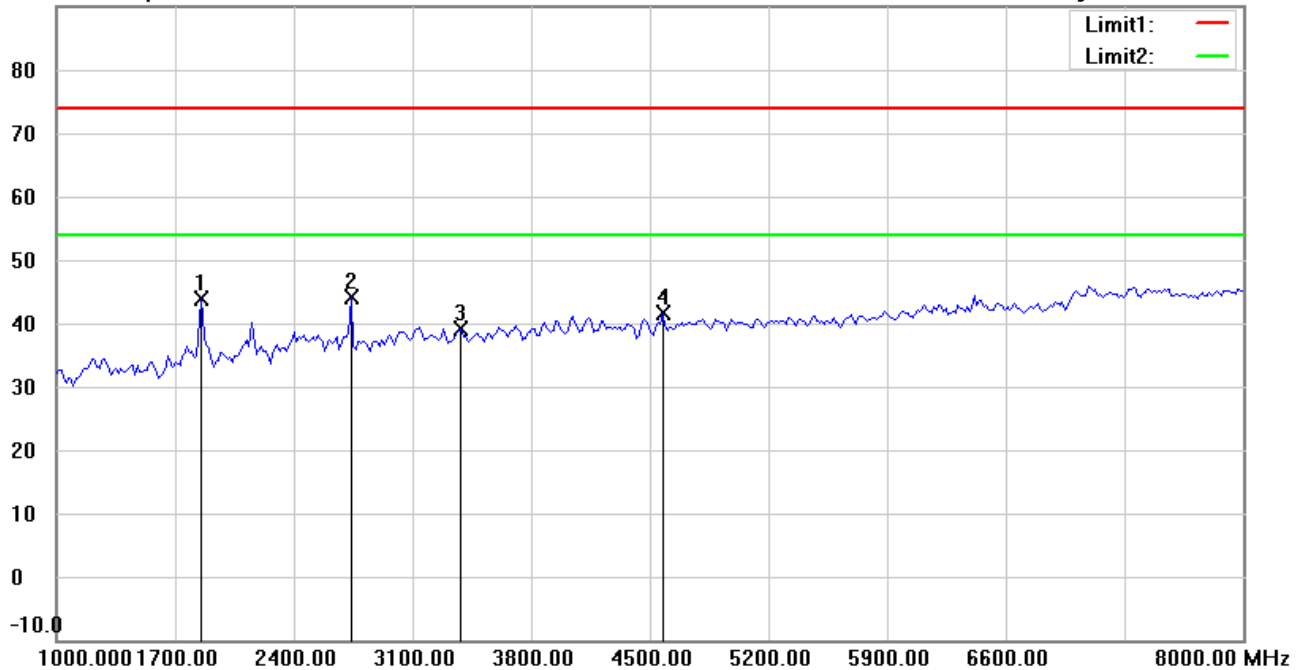
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 9:30:52 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 1855.711 | 51.47 | peak | -7.63 | 43.84 | 74.00 | 150 | 315 | -30.16 | |
| * | 2739.479 | 49.31 | peak | -5.25 | 44.06 | 74.00 | 150 | 75 | -29.94 | |
| | 3384.769 | 42.84 | peak | -3.80 | 39.04 | 74.00 | 150 | 255 | -34.96 | |
| | 4577.154 | 44.16 | peak | -2.42 | 41.74 | 74.00 | 150 | 190 | -32.26 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

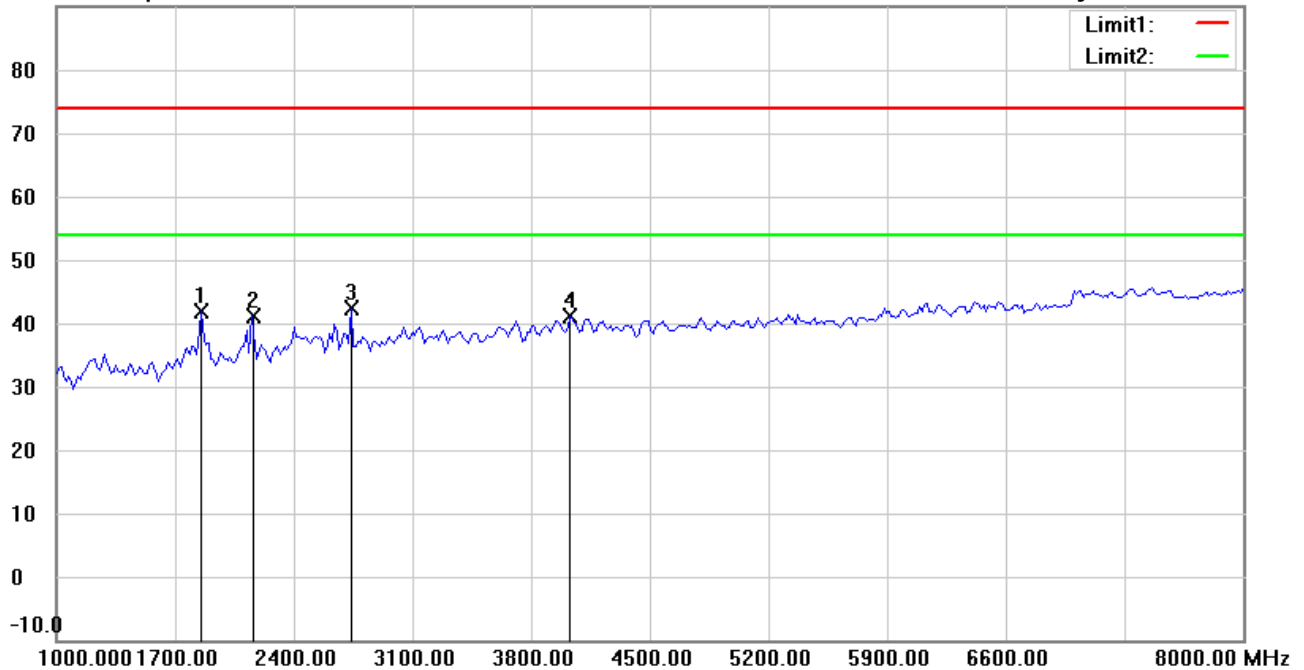
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 9:33:17 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 1855.711 | 49.50 | peak | -7.63 | 41.87 | 74.00 | 150 | 80 | -32.13 | |
| | 2150.301 | 48.52 | peak | -7.27 | 41.25 | 74.00 | 150 | 10 | -32.75 | |
| * | 2739.479 | 47.71 | peak | -5.25 | 42.46 | 74.00 | 150 | 30 | -31.54 | |
| | 4030.060 | 43.23 | peak | -2.20 | 41.03 | 74.00 | 150 | 240 | -32.97 | |



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

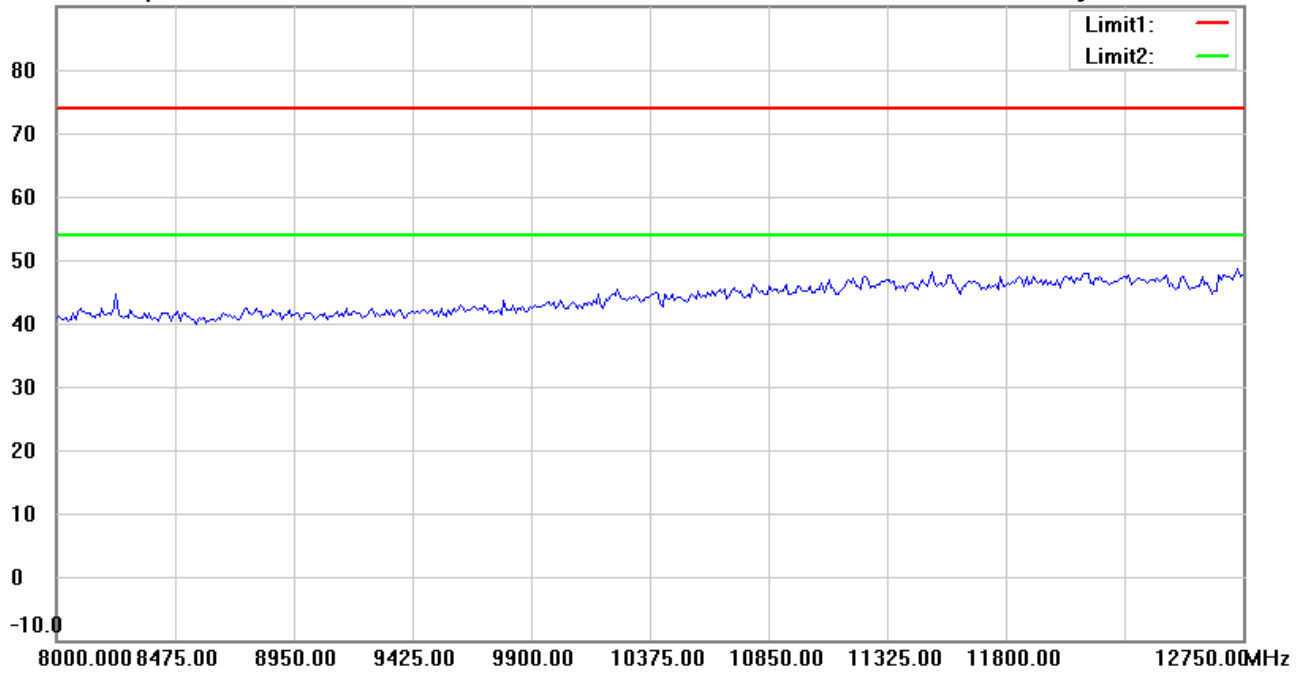
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 9:37:07 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

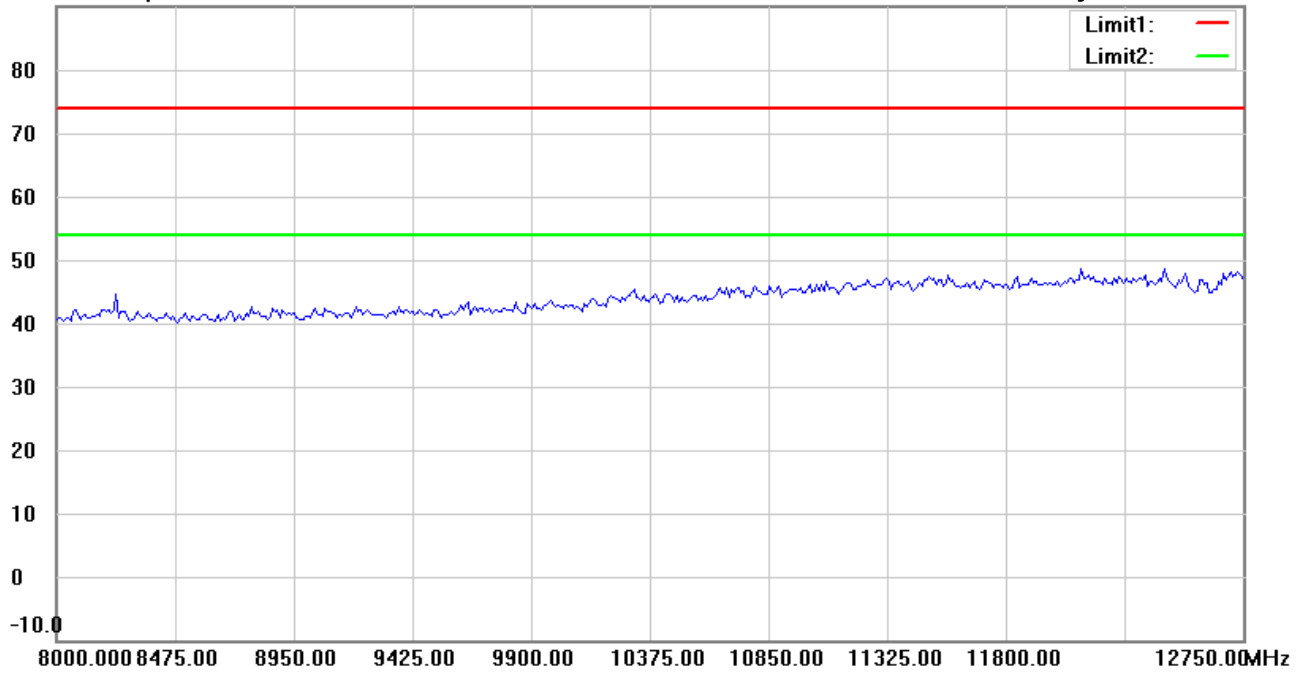
Date: 6/13/2019

Temperature:22.6 °C

90.0 dBuV/m

Time: 9:35:52 PM

Humidity:74.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Vincent

File :1

Data :#1

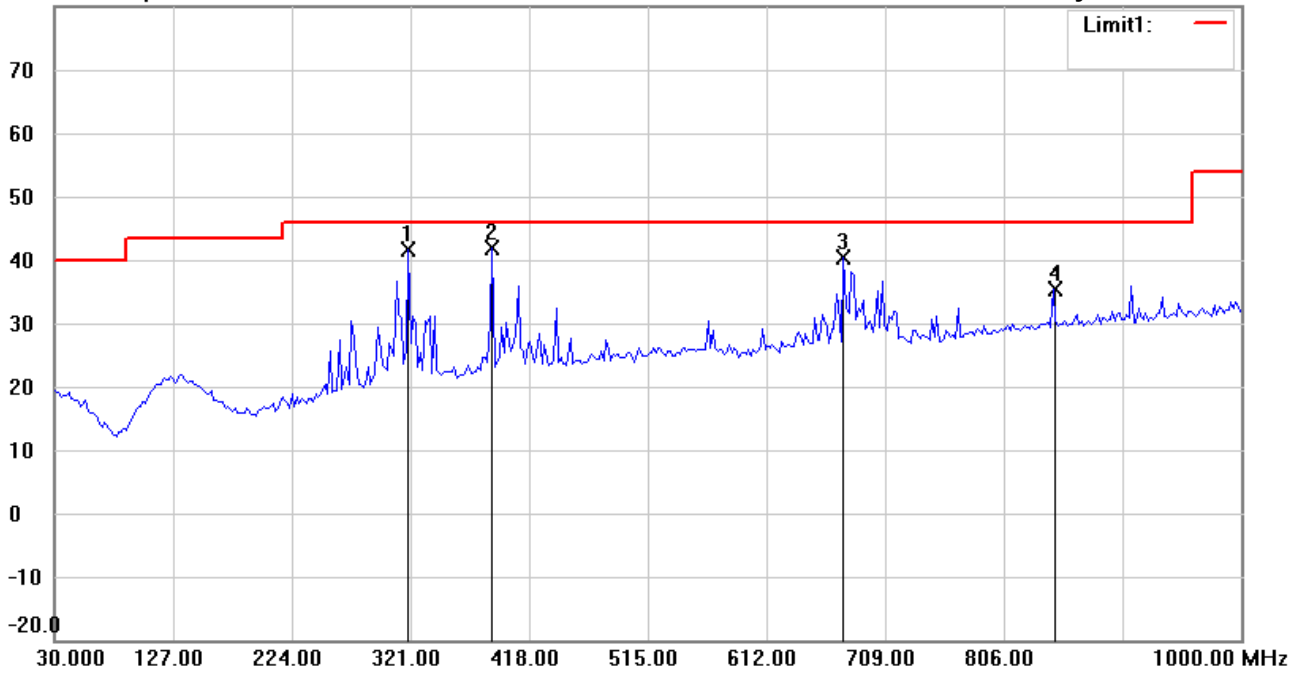
Date: 6/18/2019

Temperature:26.9 °C

80.0 dBuV/m

Time: 2:36:27 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 319.6393 | 47.53 | peak | -5.84 | 41.69 | 46.00 | 100 | 115 | -4.31 | |
| * | 387.6754 | 46.09 | peak | -4.12 | 41.97 | 46.00 | 100 | 60 | -4.03 | |
| | 675.3706 | 40.89 | peak | -0.63 | 40.26 | 46.00 | 100 | 30 | -5.74 | |
| | 846.4330 | 32.92 | peak | 2.54 | 35.46 | 46.00 | 100 | 10 | -10.54 | |



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

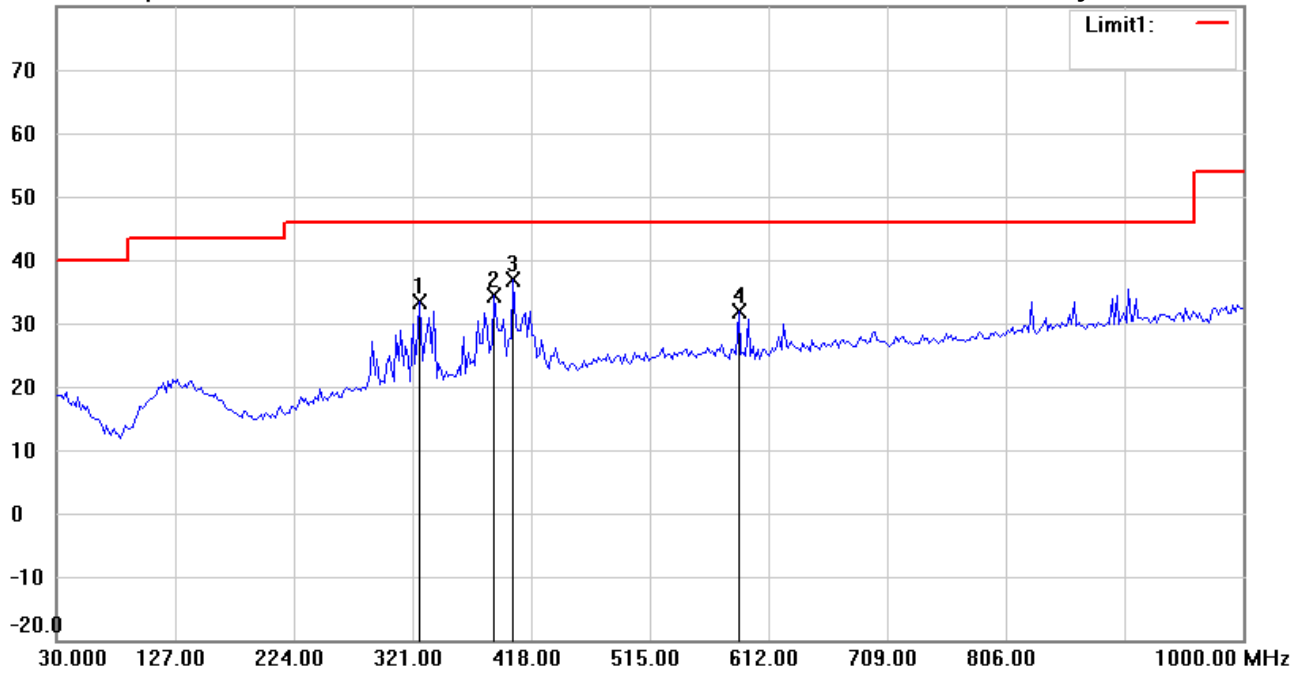
Date: 6/18/2019

Temperature:26.9 °C

80.0 dBuV/m

Time: 6:19:23 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 327.4148 | 38.92 | peak | -5.60 | 33.32 | 46.00 | 100 | 60 | -12.68 | |
| | 387.6754 | 38.59 | peak | -4.12 | 34.47 | 46.00 | 100 | 195 | -11.53 | |
| * | 403.2265 | 40.65 | peak | -3.86 | 36.79 | 46.00 | 100 | 115 | -9.21 | |
| | 587.8958 | 34.05 | peak | -2.25 | 31.80 | 46.00 | 100 | 20 | -14.20 | |



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

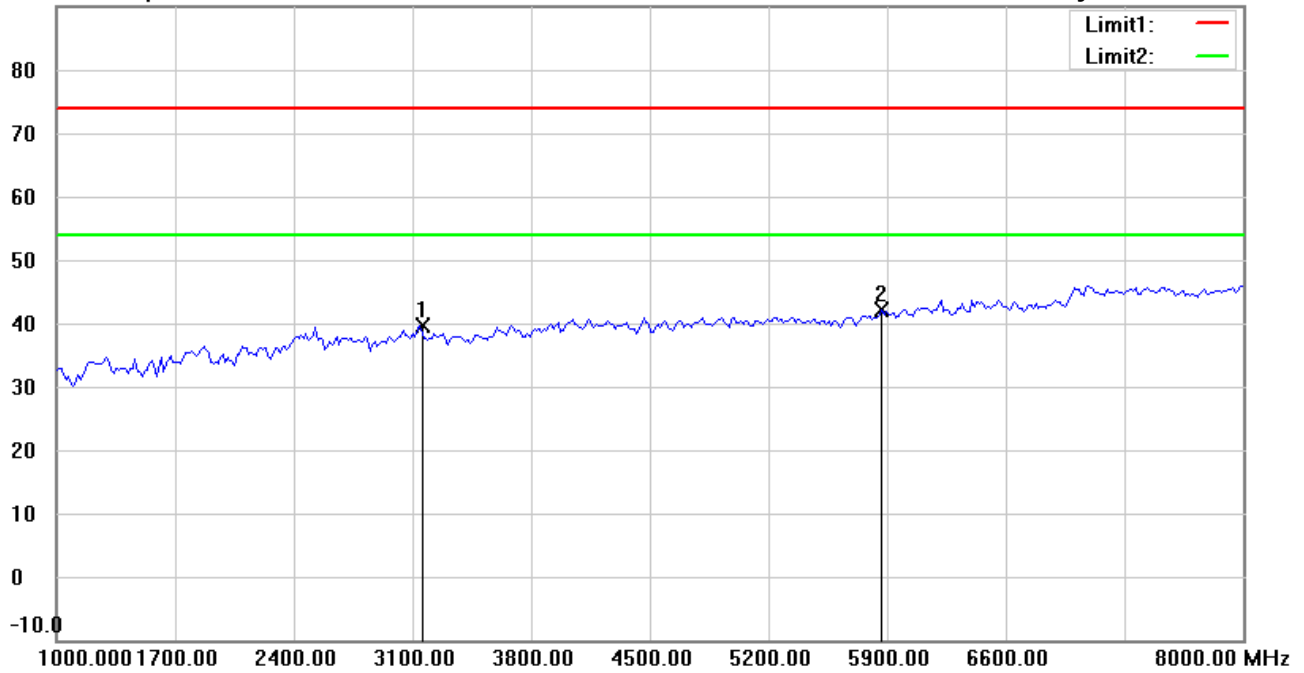
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:33:33 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 3146.293 | 43.22 | peak | -3.63 | 39.59 | 74.00 | 150 | 330 | -34.41 | |
| * | 5867.735 | 41.89 | peak | 0.35 | 42.24 | 74.00 | 150 | 105 | -31.76 | |

*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

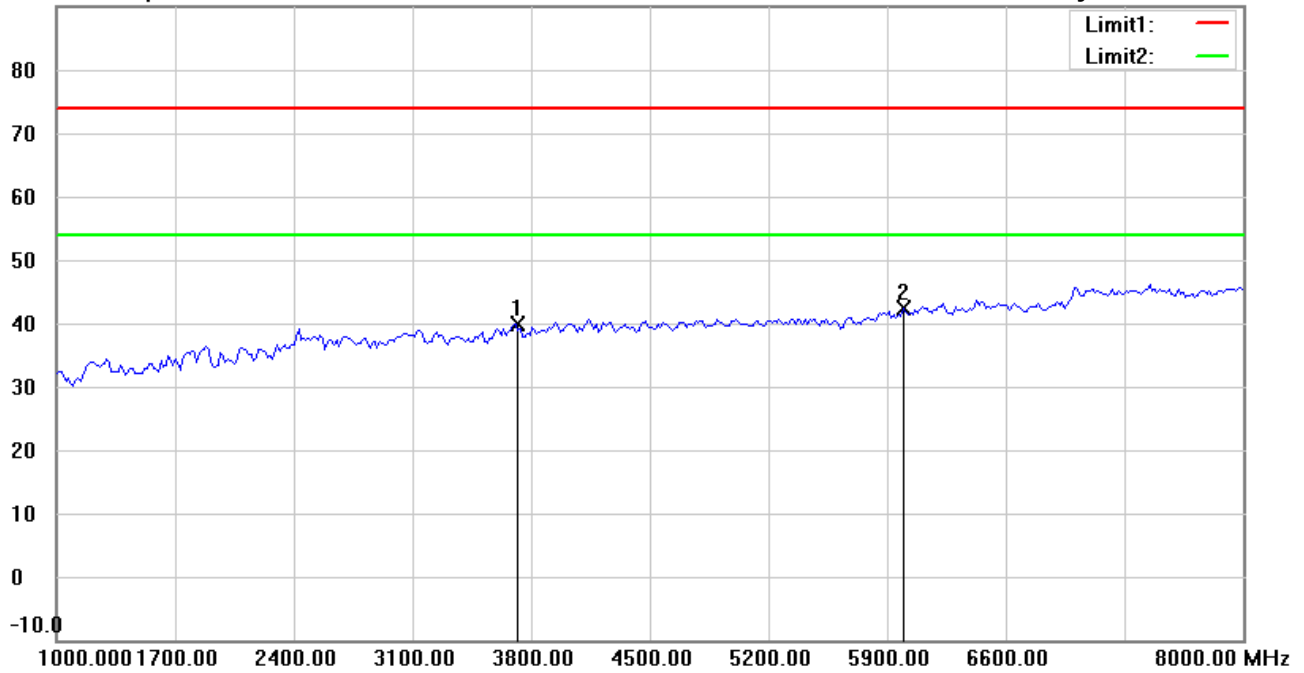
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:35:50 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 3707.415 | 42.45 | peak | -2.60 | 39.85 | 74.00 | 150 | 10 | -34.15 | |
| * | 5993.988 | 41.29 | peak | 0.99 | 42.28 | 74.00 | 150 | 265 | -31.72 | |



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

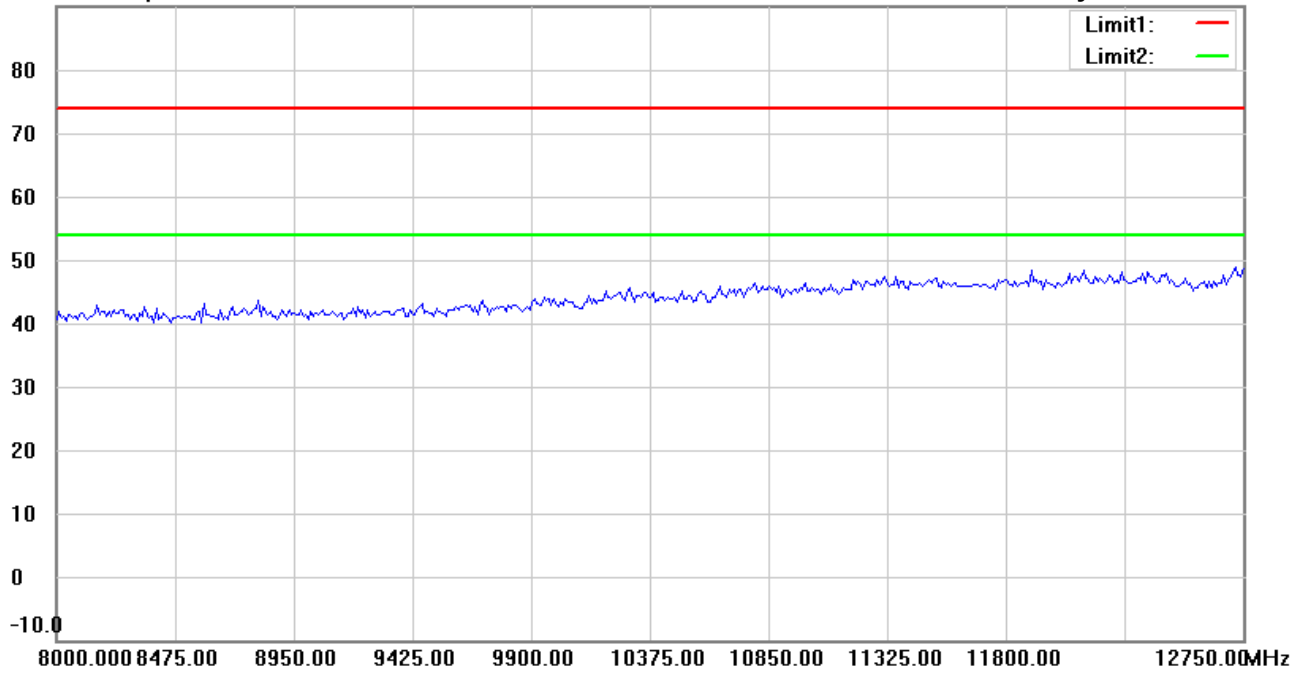
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:34:45 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

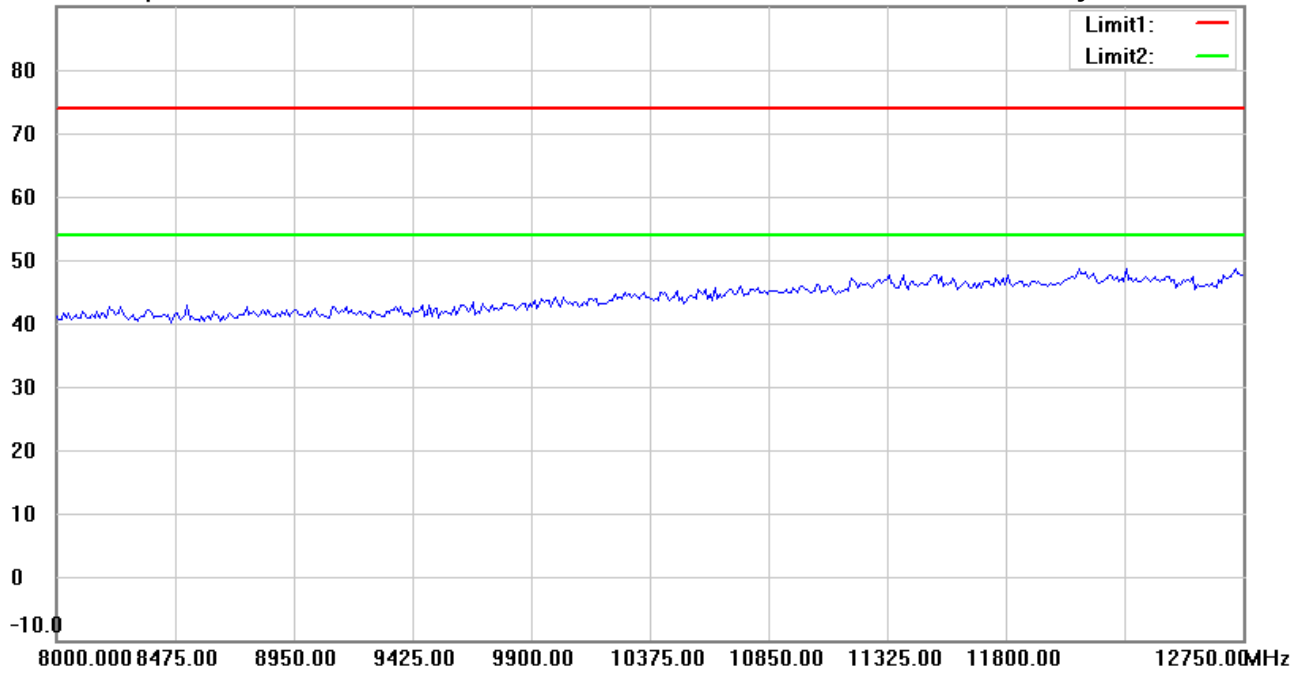
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:37:05 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.42MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

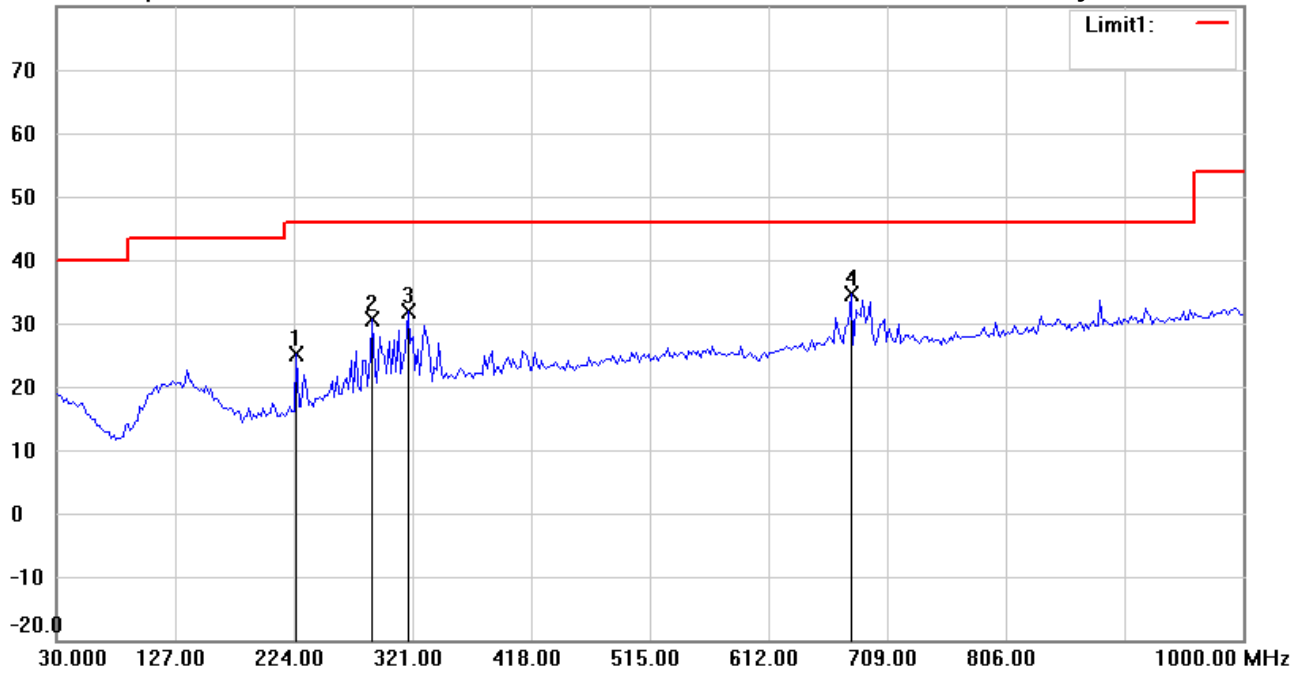
Date: 6/18/2019

Temperature:26.9 °C

80.0 dBuV/m

Time: 6:21:10 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 226.3327 | 34.56 | peak | -9.48 | 25.08 | 46.00 | 100 | 215 | -20.92 | |
| | 288.5371 | 37.12 | peak | -6.43 | 30.69 | 46.00 | 100 | 115 | -15.31 | |
| | 317.6954 | 37.76 | peak | -5.86 | 31.90 | 46.00 | 100 | 35 | -14.10 | |
| * | 679.2585 | 35.24 | peak | -0.61 | 34.63 | 46.00 | 100 | 10 | -11.37 | |



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

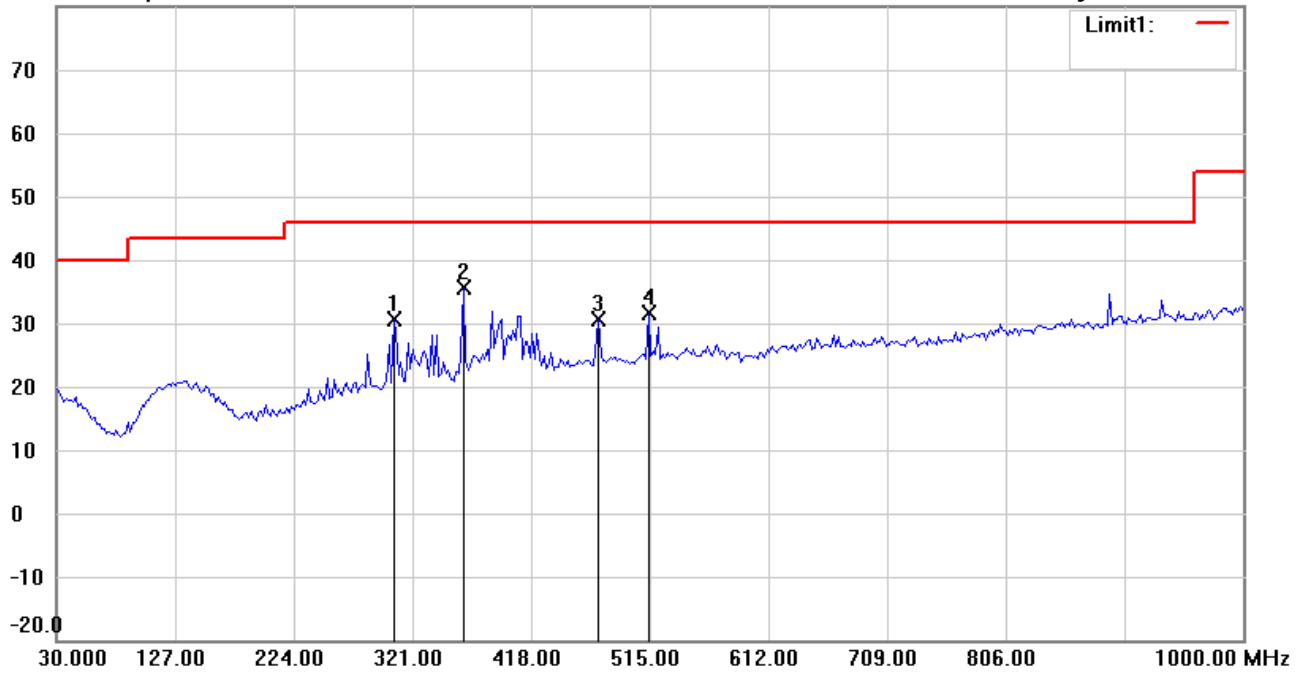
Date: 6/18/2019

Temperature:26.9 °C

80.0 dBuV/m

Time: 6:22:35 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 306.0321 | 36.65 | peak | -6.03 | 30.62 | 46.00 | 100 | 200 | -15.38 | |
| * | 362.4048 | 40.45 | peak | -4.91 | 35.54 | 46.00 | 100 | 95 | -10.46 | |
| | 473.2064 | 33.93 | peak | -3.36 | 30.57 | 46.00 | 100 | 115 | -15.43 | |
| | 514.0281 | 34.22 | peak | -2.65 | 31.57 | 46.00 | 100 | 315 | -14.43 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

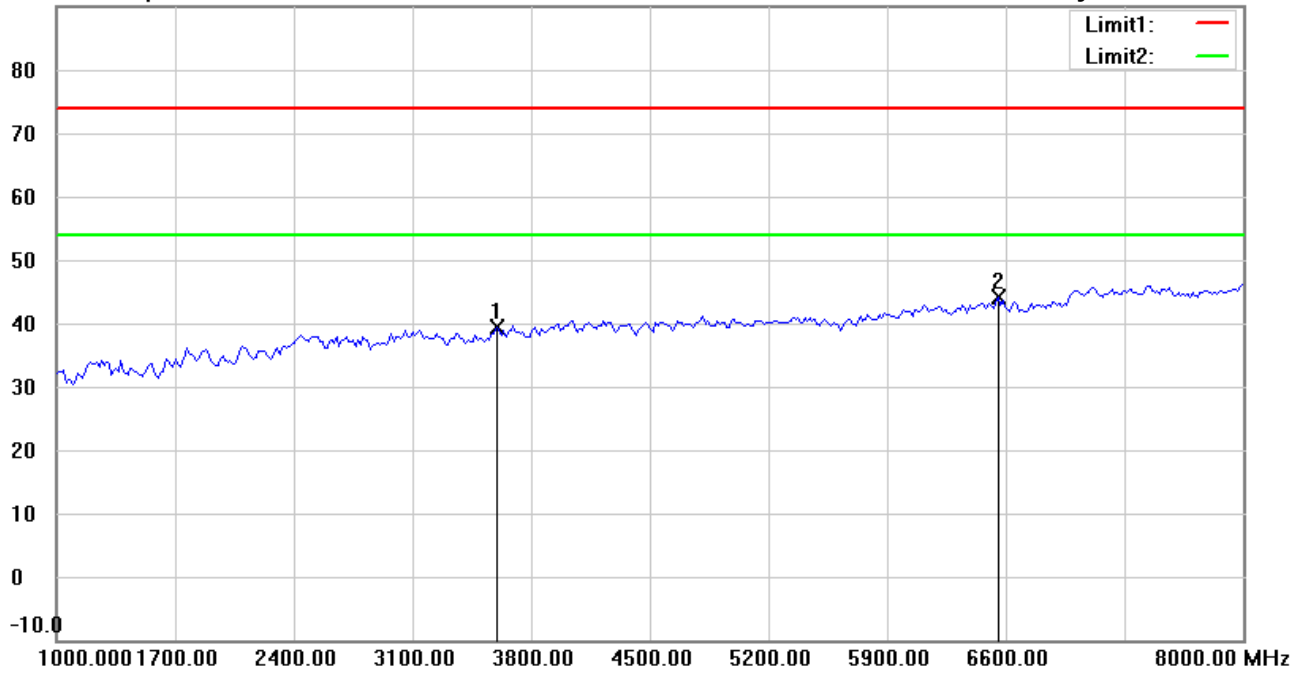
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:39:34 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 3595.190 | 42.09 | peak | -2.70 | 39.39 | 74.00 | 150 | 180 | -34.61 | |
| * | 6555.110 | 41.62 | peak | 2.41 | 44.03 | 74.00 | 150 | 35 | -29.97 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

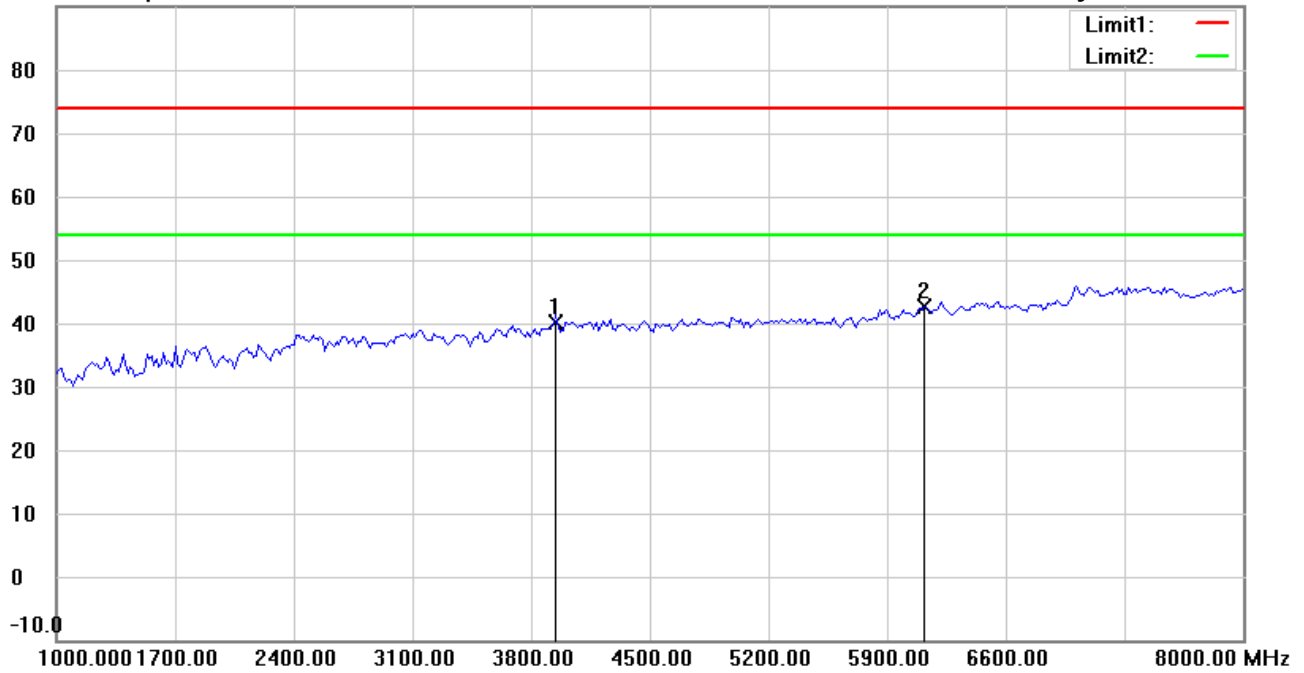
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:55:36 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 3931.864 | 42.10 | peak | -2.00 | 40.10 | 74.00 | 150 | 90 | -33.90 | |
| * | 6120.240 | 41.05 | peak | 1.60 | 42.65 | 74.00 | 150 | 45 | -31.35 | |



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 Fax:+886-2-6606-8879

Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

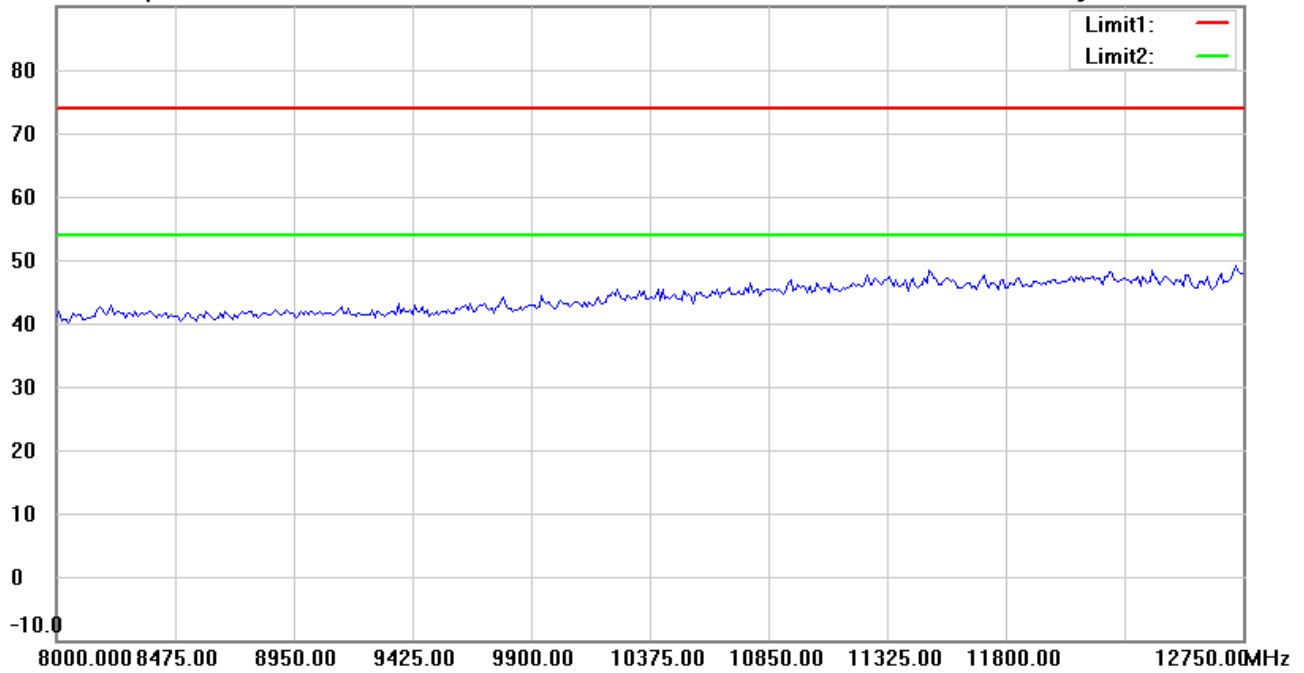
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:54:24 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

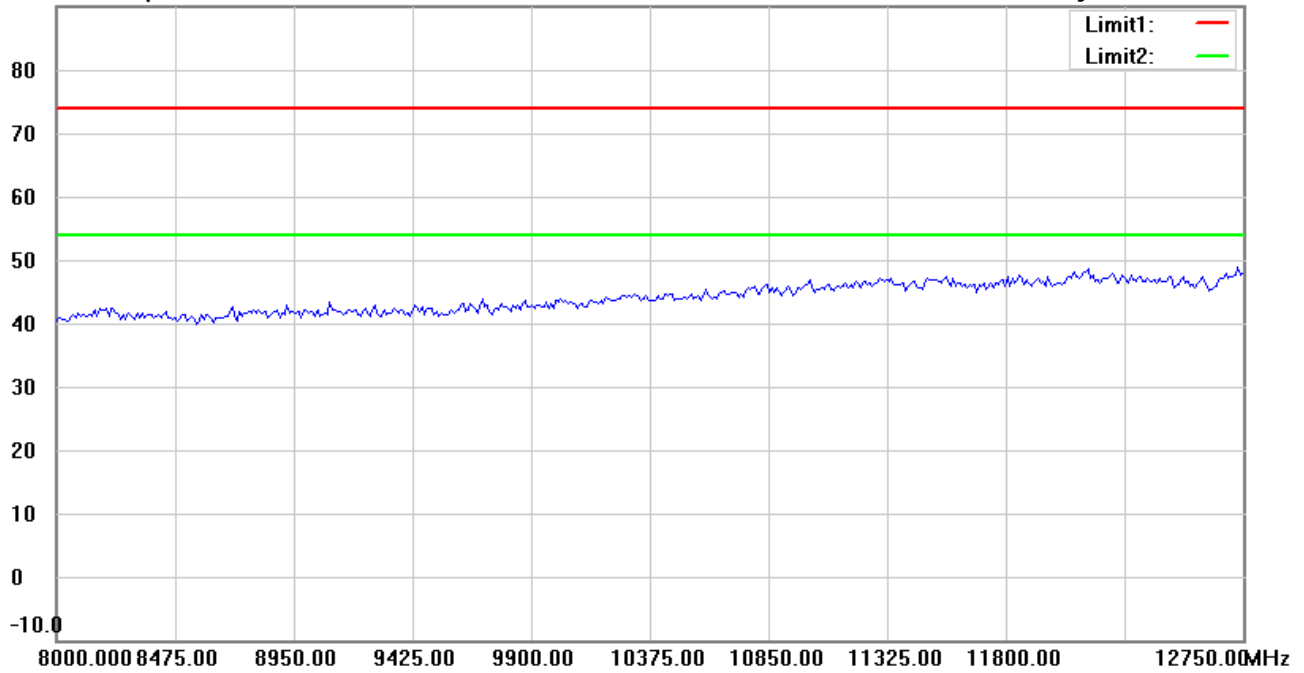
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:56:41 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 908.4MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

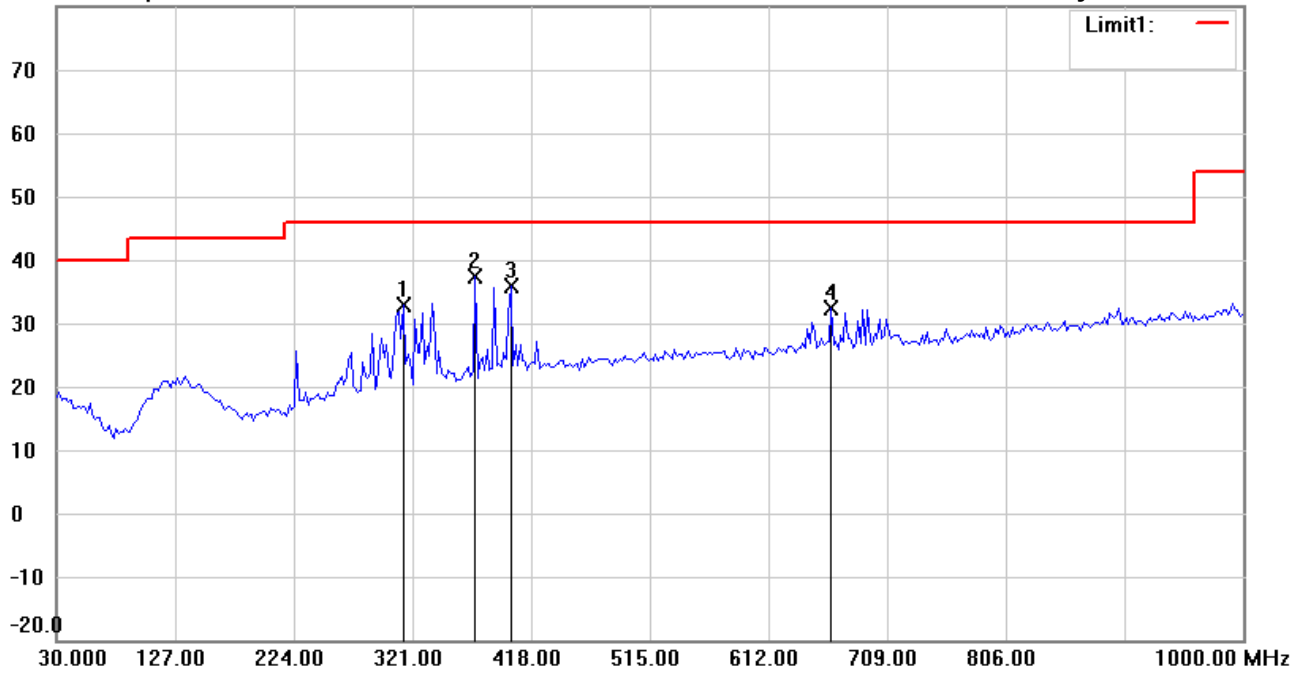
Date: 6/18/2019

Temperature:26.9 °C

80.0 dBuV/m

Time: 6:15:00 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 313.8076 | 38.84 | peak | -5.92 | 32.92 | 46.00 | 100 | 15 | -13.08 | |
| * | 372.1242 | 41.87 | peak | -4.57 | 37.30 | 46.00 | 100 | 75 | -8.70 | |
| | 401.2826 | 39.75 | peak | -3.85 | 35.90 | 46.00 | 100 | 115 | -10.10 | |
| | 663.7073 | 32.97 | peak | -0.71 | 32.26 | 46.00 | 100 | 210 | -13.74 | |



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

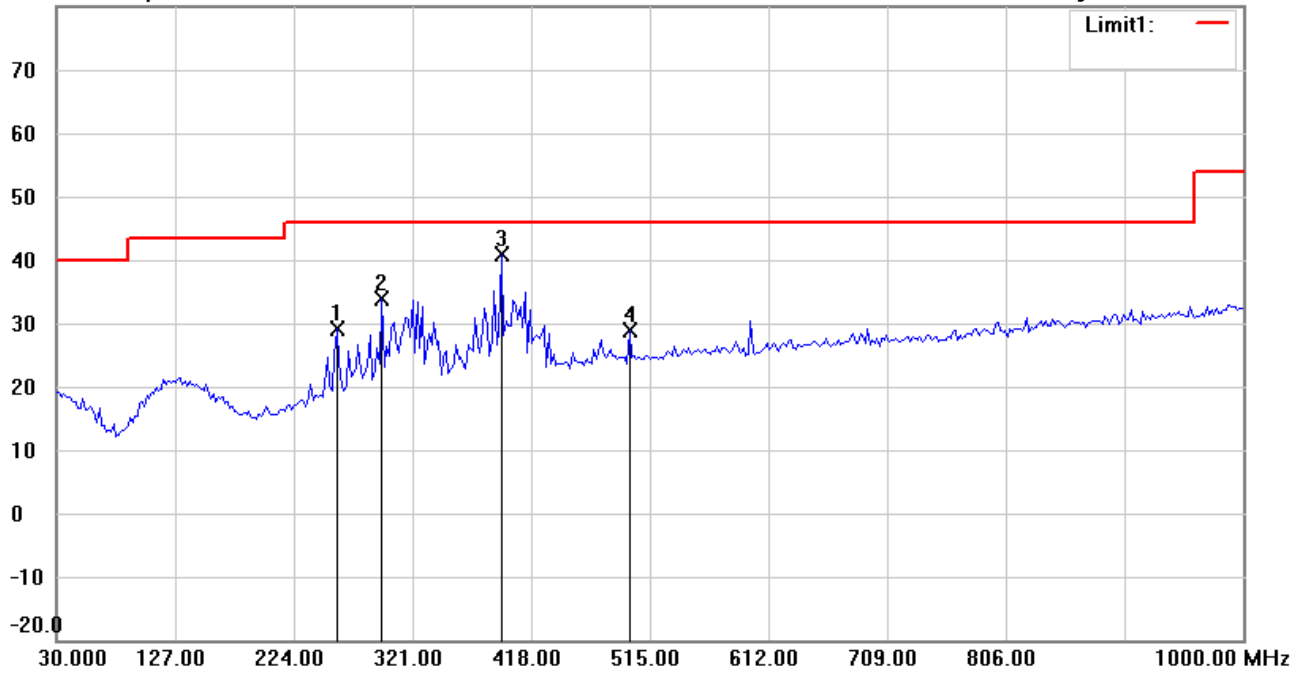
Date: 6/18/2019

Temperature:26.9 °C

80.0 dBuV/m

Time: 6:17:41 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 259.3788 | 36.63 | peak | -7.48 | 29.15 | 46.00 | 100 | 315 | -16.85 | |
| | 296.3126 | 39.99 | peak | -6.23 | 33.76 | 46.00 | 100 | 60 | -12.24 | |
| * | 393.5070 | 44.82 | peak | -3.99 | 40.83 | 46.00 | 100 | 115 | -5.17 | |
| | 498.4770 | 31.90 | peak | -2.99 | 28.91 | 46.00 | 100 | 210 | -17.09 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

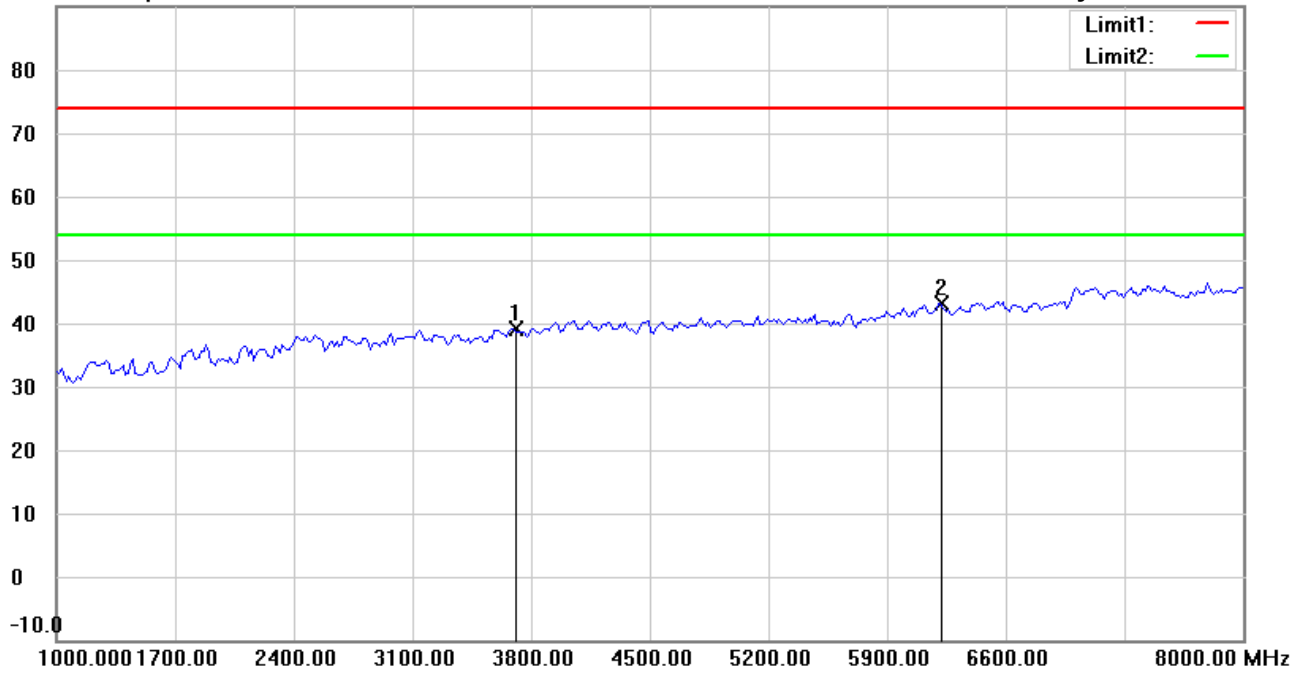
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 6:59:01 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 3693.387 | 41.68 | peak | -2.58 | 39.10 | 74.00 | 150 | 310 | -34.90 | |
| * | 6204.409 | 41.45 | peak | 1.65 | 43.10 | 74.00 | 150 | 55 | -30.90 | |



Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

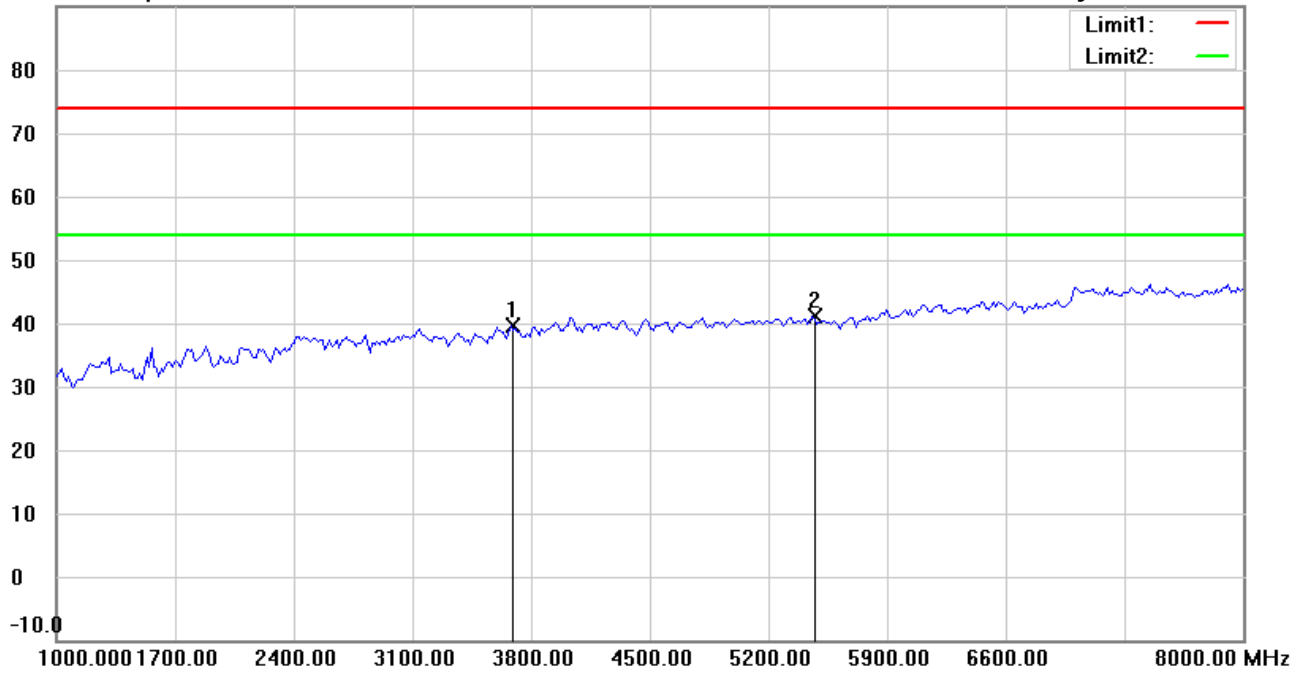
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 7:01:10 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 3679.359 | 42.18 | peak | -2.59 | 39.59 | 74.00 | 150 | 60 | -34.41 | |
| * | 5460.922 | 41.32 | peak | -0.18 | 41.14 | 74.00 | 150 | 140 | -32.86 | |



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
 Tel:+886-2-6606-8877
 Fax:+886-2-6606-8879

Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

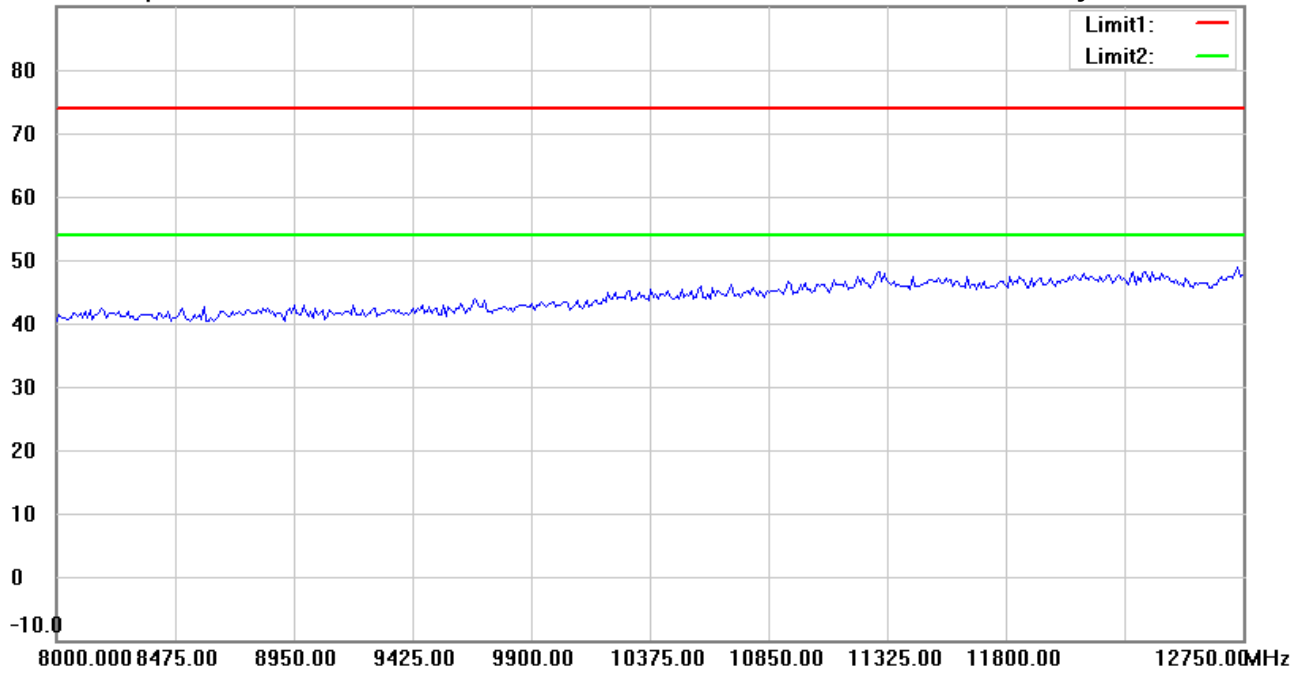
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 7:00:05 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

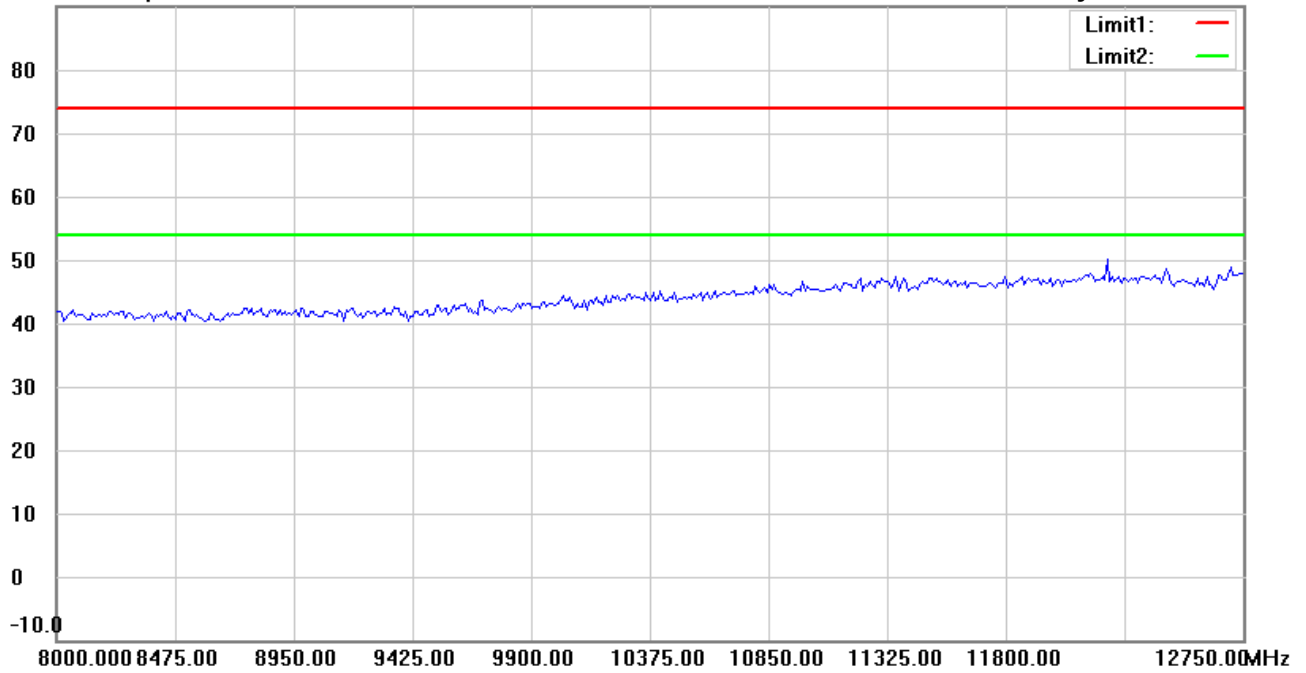
Date: 6/18/2019

Temperature:26.9 °C

90.0 dBuV/m

Time: 7:02:16 PM

Humidity:59.4 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21905-19060

Power : 6 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 916MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

*:Maximum data x:Over limit !:over margin