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Shenzhen, Guangdong, China 518057

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TEST REPORT

Application No.: SZEM1706006342CR

Applicant: GUANGDONG CHEERSON HOBBY TECHNOLOGY CO., LTD

Address of Applicant: Fengxin No. 2 Road & Laimei Road, Fengxin Industrial Zone, Chenghai,

Shantou, Guangdong province, China

Manufacturer: GUANGDONG CHEERSON HOBBY TECHNOLOGY CO., LTD

Address of Manufacturer: Fengxin No. 2 Road & Laimei Road, Fengxin Industrial Zone, Chenghai,

Shantou, Guangdong province, China

Factory: GUANGDONG CHEERSON HOBBY TECHNOLOGY CO., LTD

Address of Factory: Fengxin No. 2 Road & Laimei Road, Fengxin Industrial Zone, Chenghai,

Shantou, Guangdong province, China

Equipment Under Test (EUT):

EUT Name: UFO Model No.: CX-70

FCC ID: 2AD6LGC032470

Standards: 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2017-06-22

Date of Test: 2017-06-29 to 2017-07-07

Date of Issue: 2017-07-12

Test Result : Pass*



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| Revision Record | | | | | | |
|------------------------------|--|------------|--|----------|--|--|
| Version Chapter Date Modifie | | | | Remark | | |
| 01 | | 2017-07-12 | | Original | | |
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| Authorized for issue by: | | |
|--------------------------|-----------------------------|--|
| | Brir Chen | |
| | Bill Chen /Project Engineer | |
| | Eric Fu | |
| | Eric Fu /Reviewer | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | | | | |
|--------------------------------------|-------------------------------------|--------|----------------------------------------------------|--------|--|--|--|
| Item | Standard | Method | Requirement | Result | | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(c) | Pass | | | |

| Radio Spectrum Matter Part | | | | | | |
|-------------------------------------------------------------|-------------------------------------|-----------------------------------------|----------------------------------------------------|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Minimum 6dB Bandwidth | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.8.1 | 47 CFR Part 15, Subpart C 15.247a(2) | Pass | | |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.9.1.2 | 47 CFR Part 15, Subpart C 15.247(b)(3) | Pass | | |
| Power Spectrum Density | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.10.2 | 47 CFR Part 15, Subpart C 15.247(e) | Pass | | |
| Conducted Band Edges Measurement | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.13.3.2 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | | |
| Conducted Spurious Emissions | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 11.11 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | | |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass | | |
| Radiated Spurious Emissions | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.4 | 47 CFR Part 15, Subpart C 15.209 & 15.247(d) | Pass | | |



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4 General Information

4.1 Details of E.U.T.

Power supply: Plane rechargeable battery: DC 7.4V 350mAh 2.6Wh (Charge by USB)

Cable: Plane USB cable:72cm Unshielded

Operation Frequency: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers: IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels

Channel Separation: 5MHz

Type of Modulation: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)

IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)

IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,

QPSK,BPSK)

Sample Type: Mobile production

Antenna Type: Integral Antenna Gain: 1dBi

| Operation Frequency each of channel(802.11b/g/n HT20) | | | | | | | |
|-------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

| Channel | Frequency |
|---------------------|-----------|
| The Lowest channel | 2412MHz |
| The Middle channel | 2437MHz |
| The Highest channel | 2462MHz |



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4.2 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. |
|-------------|---------------|-----------|
| Laptop | Lenovo | T430u |
| Test board | Supply to SGS | FT232 |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.25 x 10 ⁻⁸ |
| 2 | Duty cycle | 0.37% |
| 3 | Occupied Bandwidth | 3% |
| 4 | RF conducted power | 0.75dB |
| 5 | RF power density | 2.84dB |
| 6 | Conducted Spurious emissions | 0.75dB |
| 7 | DE Bodistod nower | 4.5dB (below 1GHz) |
| / | RF Radiated power | 4.8dB (above 1GHz) |
| 8 | Dedicted Courieus emission test | 4.5dB (30MHz-1GHz) |
| 0 | Radiated Spurious emission test | 4.8dB (1GHz-18GHz) |
| 9 | Temperature test | 1℃ |
| 10 | Humidity test | 3% |
| 11 | Supply voltages | 1.5% |
| 12 | Time | 3% |



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

· CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC - Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

· Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted | | | | | | | |
|----------------------|-----------------|-------------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 | | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2016-10-09 | 2017-10-09 | | |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A | | |
| Signal Generator | Rohde & Schwarz | SML03 | SEM006-02 | 2017-04-14 | 2018-04-13 | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2016-10-09 | 2017-10-09 | | |

| Radiated Emissions which fall in the restricted bands | | | | | | | |
|-------------------------------------------------------|------------------------------------------|-----------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2017-05-10 | 2018-05-10 | | |
| Measurement Software | AUDIX | e3 V8.2014- 6-27 | N/A | N/A | N/A | | |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2017-04-14 | 2018-04-13 | | |
| BiConiLog Antenna (26- 3000MHz) | ETS-Lindgren | 3142C | SEM003-02 | 2017-03-05 | 2020-03-05 | | |
| Double-ridged horn (1- 18GHz) | ETS-Lindgren | 3117 | SEM003-11 | 2015-10-17 | 2018-10-17 | | |
| Horn Antenna (18- 26GHz) | ETS-Lindgren | 3160 | SEM003-12 | 2014-11-24 | 2017-11-24 | | |
| Horn Antenna(26GHz- 40GHz) | A.H.Systems, inc. | SAS-573 | SEM003-13 | 2015-02-12 | 2018-02-12 | | |
| Pre-amplifier (0.1- 1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2017-04-14 | 2018-04-13 | | |
| Low Noise Amplifier | Black Diamond Series | BDLNA- 0118-352810 | SEM005-05 | 2016-10-09 | 2017-10-09 | | |
| Pre-amplifier(26GHz- 40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2017-04-14 | 2018-04-13 | | |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 | | |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2015-08-14 | 2018-08-14 | | |
| Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A | | |



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| Radiated Spurious Emissions | | | | | | | | | | | |
|------------------------------------|------------------------------------------|-----------------------|--------------|------------|--------------|--|--|--|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | | | | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2017-05-10 | 2018-05-10 | | | | | | |
| Measurement Software | AUDIX | e3 V8.2014- 6-27 | N/A | N/A | N/A | | | | | | |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2017-04-14 | 2018-04-13 | | | | | | |
| BiConiLog Antenna (26- 3000MHz) | ETS-Lindgren | 3142C | SEM003-02 | 2017-03-05 | 2020-03-05 | | | | | | |
| Double-ridged horn (1- 18GHz) | ETS-Lindgren | 3117 | SEM003-11 | 2015-10-17 | 2018-10-17 | | | | | | |
| Horn Antenna (18- 26GHz) | ETS-Lindgren | 3160 | SEM003-12 | 2014-11-24 | 2017-11-24 | | | | | | |
| Horn Antenna(26GHz- 40GHz) | A.H.Systems, inc. | SAS-573 | SEM003-13 | 2015-02-12 | 2018-02-12 | | | | | | |
| Pre-amplifier (0.1- 1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2017-04-14 | 2018-04-13 | | | | | | |
| Low Noise Amplifier | Black Diamond Series | BDLNA- 0118-352810 | SEM005-05 | 2016-10-09 | 2017-10-09 | | | | | | |
| Pre-amplifier(26GHz- 40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2017-04-14 | 2018-04-13 | | | | | | |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 | | | | | | |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2015-08-14 | 2018-08-14 | | | | | | |
| Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A | | | | | | |

| General used equipmen | t | | | | |
|------------------------------------|-------------------------------------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2016-10-12 | 2017-10-12 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2016-10-12 | 2017-10-12 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2016-10-12 | 2017-10-12 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2017-04-18 | 2018-04-18 |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

6.1.2 Conclusion

Standard Requirment:

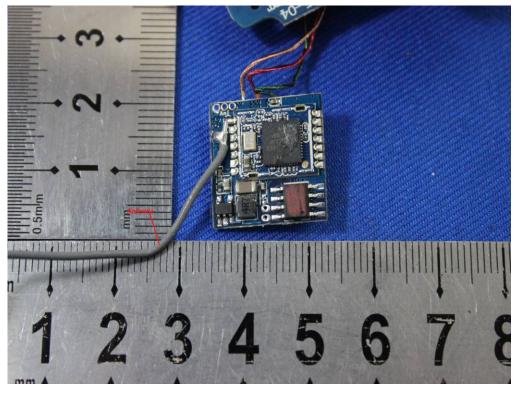
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1dBi.





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7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with all modulation

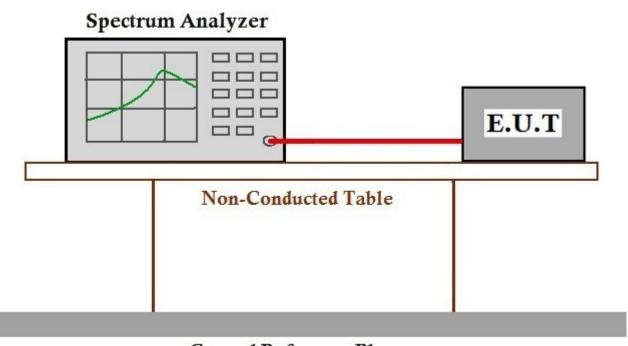
types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst

case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); data rate.

Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.1.2

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|----------------------|--------------------------------------------------------|
| | 1 for ≥50 hopping channels |
| 902-928 | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| | 1 for ≥75 non-overlapping hopping channels |
| 2400-2483.5 | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |



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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode b:TX mode Keep the EUT in continuously transmitting mode with all modulation

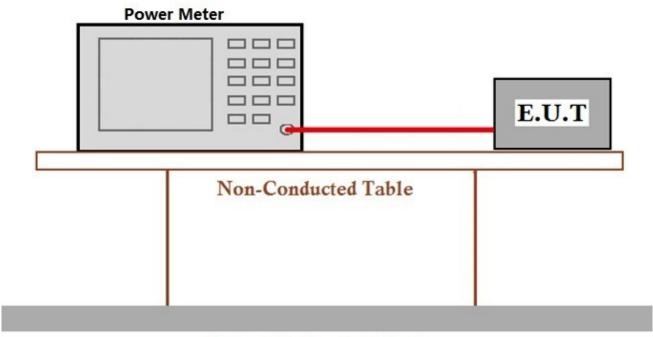
types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst

case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); data rate.

Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with all modulation

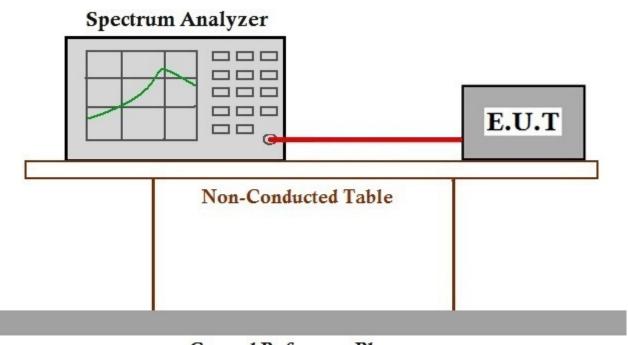
types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst

case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); data rate.

Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with all modulation

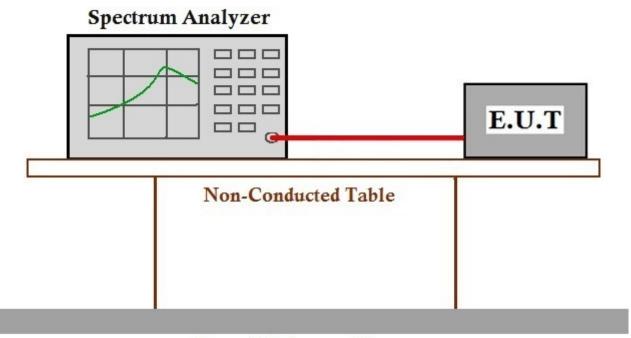
types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst

case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); data rate.

Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with all modulation

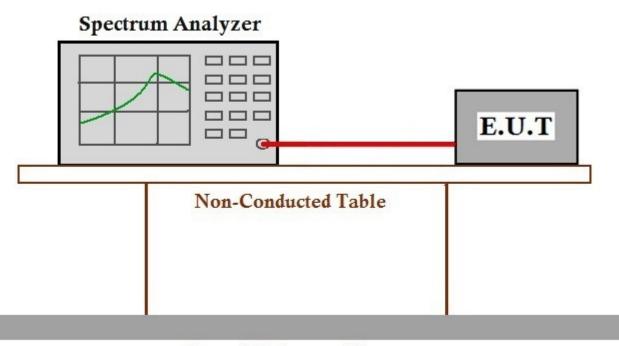
types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst

case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); data rate.

Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

| Frequency(MHz)₽ | Field- strength(microvolts/meter)⊷ | Measurement∙ distance(meters)∂ | | |
|-----------------|---------------------------------------|-----------------------------------|--|--|
| 0.009-0.490₽ | 2400/F(kHz)₽ | 300₽ | | |
| 0.490-1.705₽ | 24000/F(kHz)₽ | 30₽ | | |
| 1.705-30.0₽ | 30₽ | 30₽ | | |
| 30-88₽ | 100₽ | 3₽ | | |
| 88-216₽ | 150₽ | 3₽ | | |
| ب216-960 | 000 ب | 3 0 | | |
| Above-960₽ | 500₽ | 3₽ | | |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

Test mode b:TX mode_Keep the EUT in continuously transmitting mode with all modulation

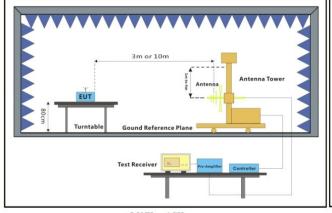
types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst

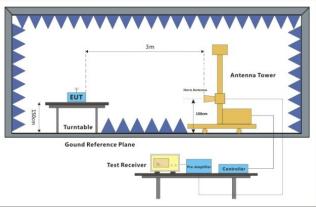
case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); data rate.

Only the data of worst case is recorded in the report.

7.6.2 Test Setup Diagram





30MHz-1GHz Above 1GHz

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7.6.3 Measurement Procedure and Data

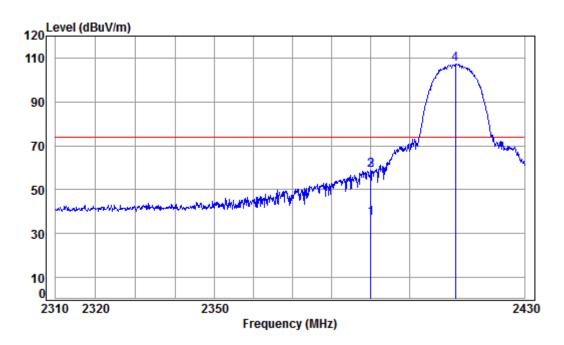
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.



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Mode:b; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2412 Band edge

: 2.4G WIFI 11B

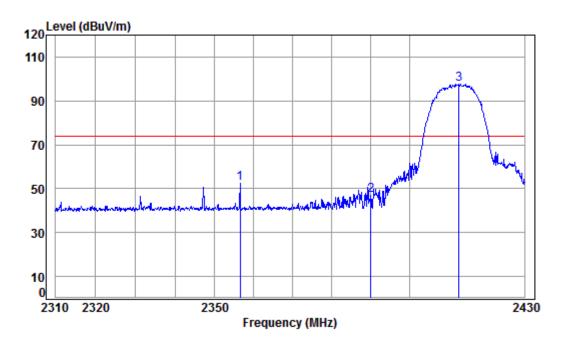
| | | . cam | ci a | | | | | | | |
|---|----|----------|-------|--------|--------|--------|--------|--------|--------|---------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | av | 2389.968 | 5.34 | 29.08 | 37.96 | 40.69 | 37.15 | 54.00 | -16.85 | Average |
| 2 | | 2389.968 | 5.34 | 29.08 | 37.96 | 62.32 | 58.78 | 74.00 | -15.22 | peak |
| 3 | | 2390.000 | 5.34 | 29.08 | 37.96 | 62.32 | 58.78 | 74.00 | -15.22 | peak |
| 4 | pp | 2411.977 | 5.35 | 29.14 | 37.96 | 110.91 | 107.44 | 74.00 | 33.44 | peak |



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Mode:b; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 06342CR

Mode : 2412 Band edge

: 2.4G WIFI 11B

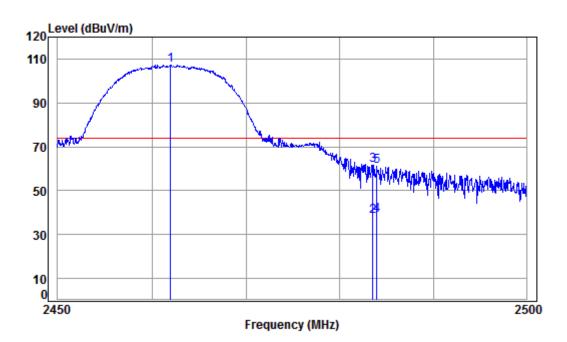
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2356.556 | 5.31 | 28.98 | 37.96 | 56.01 | 52.34 | 74.00 | -21.66 | peak |
| 2 | 2390.000 | 5.34 | 29.08 | 37.96 | 50.33 | 46.79 | 74.00 | -27.21 | peak |
| 3 рр | 2412.832 | 5.35 | 29.15 | 37.96 | 101.25 | 97.79 | 74.00 | 23.79 | peak |
| | | | | | | | | | • |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2462 Band edge

: 2.4G WIFI 11B

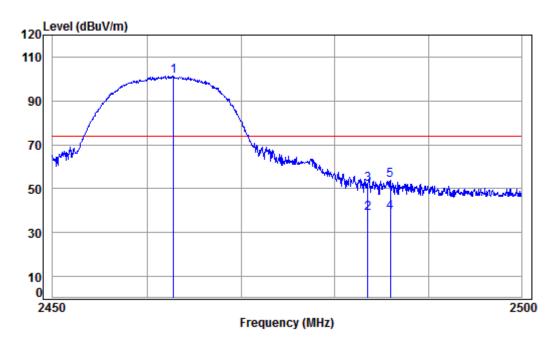
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|--------|--------|--------|--------|---------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 рр | 2461.958 | 5.39 | 29.29 | 37.95 | 110.61 | 107.34 | 74.00 | 33.34 | peak |
| 2 | 2483.500 | 5.41 | 29.35 | 37.95 | 41.55 | 38.36 | 54.00 | -15.64 | Average |
| 3 | 2483.500 | 5.41 | 29.35 | 37.95 | 64.66 | 61.47 | 74.00 | -12.53 | peak |
| 4 av | 2483.940 | 5.41 | 29.35 | 37.95 | 41.89 | 38.70 | 54.00 | -15.30 | Average |
| 5 | 2483.940 | 5.41 | 29.35 | 37.95 | 64.19 | 61.00 | 74.00 | -13.00 | peak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 06342CR

Mode : 2462 Band edge

: 2.4G WIFI 11B

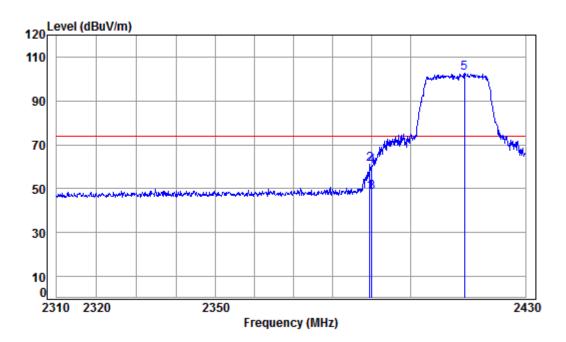
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----|----------|-------|--------|--------|--------|----------|----------|--------|---------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | d Bu V/m | d Bu V/m | dB | |
| | | | | | | | | | | |
| 1 | pp | 2462.803 | 5.39 | 29.29 | 37.95 | 104.51 | 101.24 | 74.00 | 27.24 | Peak |
| 2 | | 2483.500 | 5.41 | 29.35 | 37.95 | 42.17 | 38.98 | 54.00 | -15.02 | Average |
| 3 | | 2483.500 | 5.41 | 29.35 | 37.95 | 55.15 | 51.96 | 74.00 | -22.04 | Peak |
| 4 | av | 2485.898 | 5.41 | 29.36 | 37.95 | 42.33 | 39.15 | 54.00 | -14.85 | Average |
| 5 | | 2485.898 | 5.41 | 29.36 | 37.95 | 57.19 | 54.01 | 74.00 | -19.99 | Peak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2412 Band edge

: 2.4G WIFI 11G

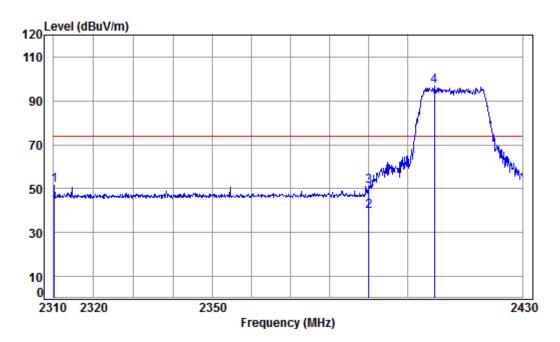
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|-----|----|----------|-------|--------|--------|--------|--------|--------|--------|---------|---|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | _ | | | | | | | | | | _ |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | | |
| 1 | | 2389.484 | 5.34 | 29.08 | 37.96 | 52.04 | 48.50 | 54.00 | -5.50 | Average | |
| 2 | | 2389.484 | 5.34 | 29.08 | 37.96 | 64.61 | 61.07 | 74.00 | -12.93 | peak | |
| 3 8 | av | 2390.000 | 5.34 | 29.08 | 37.96 | 52.05 | 48.51 | 54.00 | -5.49 | Average | |
| 4 | | 2390.000 | 5.34 | 29.08 | 37.96 | 63.64 | 60.10 | 74.00 | -13.90 | peak | |
| 5 1 | op | 2414.054 | 5.36 | 29.15 | 37.96 | 106.29 | 102.84 | 74.00 | 28.84 | peak | |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 06342CR

Mode : 2412 Band edge

: 2.4G WIFI 11G

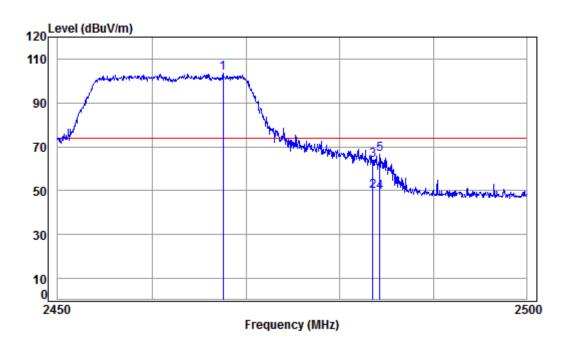
| | | . cam | CI a | | | | | | | |
|---|----|----------|-------|--------|--------|--------|--------|--------|--------|---------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 2310.234 | 5.27 | 28.83 | 37.97 | 55.41 | 51.54 | 74.00 | -22.46 | Peak |
| 2 | av | 2390.000 | 5.34 | 29.08 | 37.96 | 43.03 | 39.49 | 54.00 | -14.51 | Average |
| 3 | | 2390.000 | 5.34 | 29.08 | 37.96 | 54.73 | 51.19 | 74.00 | -22.81 | Peak |
| 4 | pp | 2406.974 | 5.35 | 29.13 | 37.96 | 100.09 | 96.61 | 74.00 | 22.61 | Peak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2462 Band edge

: 2.4G WIFI 11G

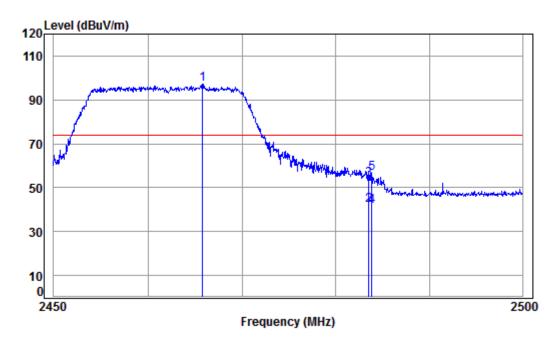
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----|----------|-------|--------|--------|--------|--------|--------|--------|---------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | pp | 2467.535 | 5.40 | 29.31 | 37.95 | 106.60 | 103.36 | 74.00 | 29.36 | peak |
| 2 | av | 2483.500 | 5.41 | 29.35 | 37.95 | 52.75 | 49.56 | 54.00 | -4.44 | Average |
| 3 | | 2483.500 | 5.41 | 29.35 | 37.95 | 66.97 | 63.78 | 74.00 | -10.22 | peak |
| 4 | | 2484.241 | 5.41 | 29.35 | 37.95 | 52.53 | 49.34 | 54.00 | -4.66 | Average |
| 5 | | 2484.241 | 5.41 | 29.35 | 37.95 | 69.78 | 66.59 | 74.00 | -7.41 | peak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 06342CR

Mode : 2462 Band edge

: 2.4G WIFI 11G

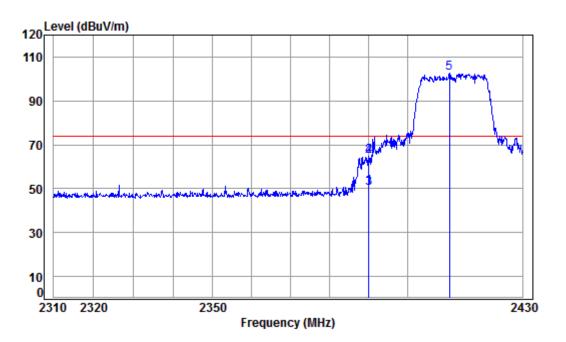
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|------|----------|-------|--------|--------|--------|--------|--------|--------|---------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | l pp | 2465.791 | 5.39 | 29.30 | 37.95 | 100.67 | 97.41 | 74.00 | 23.41 | Peak |
| 2 | 2 av | 2483.500 | 5.41 | 29.35 | 37.95 | 45.23 | 42.04 | 54.00 | -11.96 | Average |
| 3 | 3 | 2483.500 | 5.41 | 29.35 | 37.95 | 57.17 | 53.98 | 74.00 | -20.02 | Peak |
| 4 | 1 | 2483.840 | 5.41 | 29.35 | 37.95 | 44.75 | 41.56 | 54.00 | -12.44 | Average |
| 5 | 5 | 2483.840 | 5.41 | 29.35 | 37.95 | 59.74 | 56.55 | 74.00 | -17.45 | Peak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2412 Band edge

: 2.4G WIFI 11N

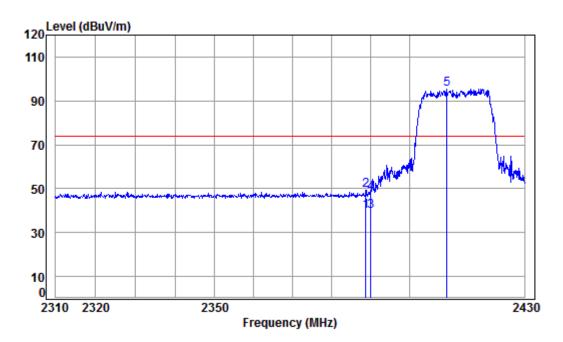
| | | Freq | | | | | | Limit Line | | Remark | |
|---|----|----------------------|------|-------|-------|--------|--------|---------------|-------|---------|---|
| | - | MHz | dB | dB/m | ——dB | dBuV | dBuV/m | dBuV/m | dB | | - |
| | | 2389.968 2389.968 | | | | | | | | _ | |
| 3 | | 2390.000 | 5.34 | 29.08 | 37.96 | 53.57 | 50.03 | 54.00 | -3.97 | Average | |
| 4 | | 2390.000 | 5.34 | 29.08 | 37.96 | 68.22 | 64.68 | 74.00 | -9.32 | peak | |
| 5 | nn | 2410.878 | 5.35 | 29.14 | 37.96 | 106.10 | 102.63 | 74.00 | 28.63 | neak | |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 06342CR

Mode : 2412 Band edge

: 2.4G WIFI 11N

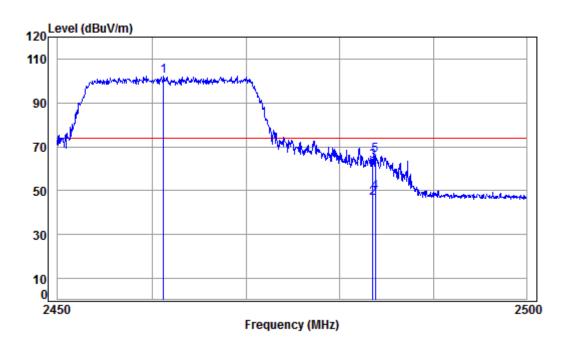
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|---------|---|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | _ | | | | | | | | | | _ |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | | |
| 1 | av | 2388.758 | 5.34 | 29.07 | 37.96 | 43.12 | 39.57 | 54.00 | -14.43 | Average | |
| 2 | | 2388.758 | 5.34 | 29.07 | 37.96 | 52.94 | 49.39 | 74.00 | -24.61 | Peak | |
| 3 | | 2390.000 | 5.34 | 29.08 | 37.96 | 43.09 | 39.55 | 54.00 | -14.45 | Average | |
| 4 | | 2390.000 | 5.34 | 29.08 | 37.96 | 51.62 | 48.08 | 74.00 | -25.92 | Peak | |
| 5 | nn | 2409.779 | 5.35 | 29.14 | 37.96 | 98.95 | 95.48 | 74.00 | 21.48 | Peak | |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2462 Band edge

: 2.4G WIFI 11N

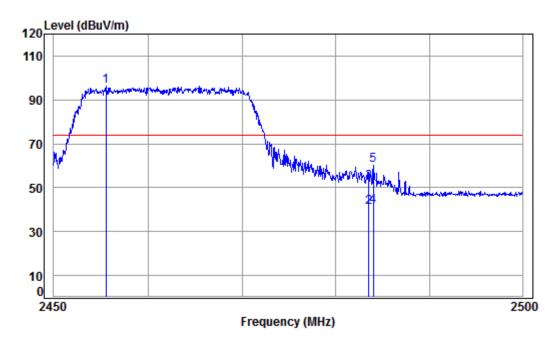
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|------|----------|-------|--------|--------|--------|----------|--------|--------|---------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | d Bu V/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | l pp | 2461.212 | 5.39 | 29.29 | 37.95 | 105.66 | 102.39 | 74.00 | 28.39 | peak |
| 2 | 2 | 2483.500 | 5.41 | 29.35 | 37.95 | 49.65 | 46.46 | 54.00 | -7.54 | Average |
| 3 | 3 | 2483.500 | 5.41 | 29.35 | 37.95 | 66.82 | 63.63 | 74.00 | -10.37 | peak |
| 4 | l av | 2483.790 | 5.41 | 29.35 | 37.95 | 52.57 | 49.38 | 54.00 | -4.62 | Average |
| | 5 | 2483.790 | 5.41 | 29.35 | 37.95 | 69.23 | 66.04 | 74.00 | -7.96 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 06342CR

Mode : 2462 Band edge

: 2.4G WIFI 11N

| | · camera | | | | | | | | |
|------|----------|-------|--------|--------|-------|----------|--------|--------|---------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | -ID- A// | 4D-3// | | |
| | MHz | ав | aB/m | dB | abuv | abuv/m | abuv/m | dB | |
| 1 nn | 2455.550 | 5.39 | 29.27 | 37.95 | 99 49 | 96.20 | 74 00 | 22 20 | Peak |
| | 2483.500 | | | | | | | | |
| | 2483.500 | | | 37.95 | | | | | _ |
| 4 av | 2483.990 | 5.41 | 29.35 | 37.95 | 44.84 | 41.65 | 54.00 | -12.35 | Average |
| 5 | 2483.990 | 5.41 | 29.35 | 37.95 | 63.36 | 60.17 | 74.00 | -13.83 | Peak |



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7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.4

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

Test mode b:TX mode Keep the EUT in continuously transmitting mode with all modulation

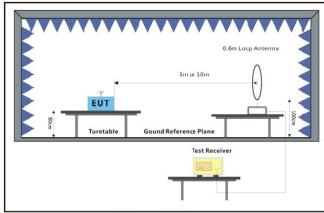
types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst

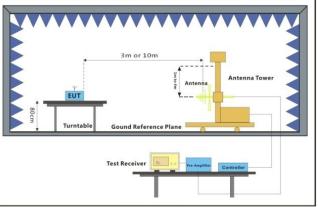
case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20); data rate.

Only the data of worst case is recorded in the report.

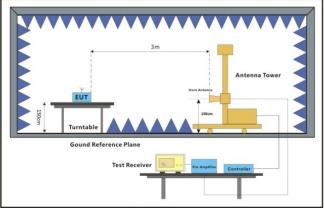
7.7.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.7.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.



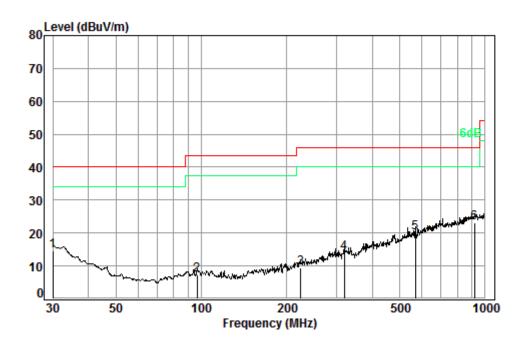
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Radiated Emission below 1GHz

Detector:QP

Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 06342CR

Test mode: b

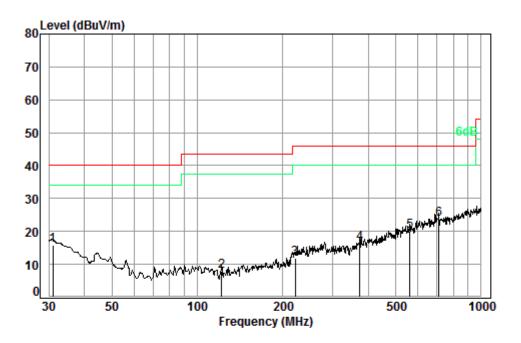
| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 4 | 30.00 | 0.60 | 40.70 | 27.26 | 22 54 | 44.45 | 40.00 | 25 55 |
| 1 | 30.00 | 0.60 | 18.70 | 27.36 | 22.51 | 14.45 | 40.00 | -25.55 |
| 2 | 96.77 | 1.17 | 8.97 | 27.20 | 24.25 | 7.19 | 43.50 | -36.31 |
| 3 | 223.73 | 1.54 | 11.43 | 26.62 | 23.22 | 9.57 | 46.00 | -36.43 |
| 4 | 318.82 | 1.96 | 14.58 | 26.54 | 24.10 | 14.10 | 46.00 | -31.90 |
| 5 | 568.61 | 2.67 | 19.05 | 27.59 | 25.81 | 19.94 | 46.00 | -26.06 |
| 6 рр | 916.07 | 3.62 | 23.26 | 26.71 | 22.84 | 23.01 | 46.00 | -22.99 |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 06342CR

Test mode: b

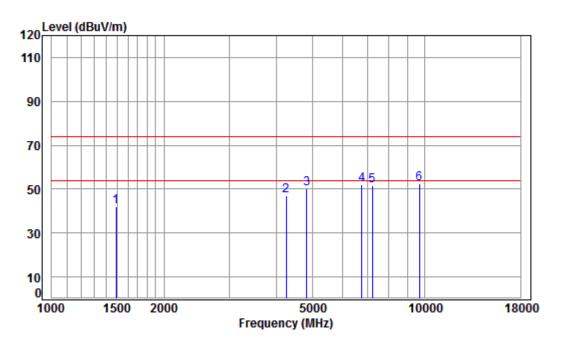
| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 | 30.96 | 0.60 | 18.16 | 27.35 | 24.30 | 15.71 | 40.00 | -24.29 |
| 2 | 121.98 | 1.26 | 7.86 | 27.06 | 25.81 | 7.87 | 43.50 | -35.63 |
| 3 | 221.39 | 1.52 | 11.31 | 26.62 | 25.53 | 11.74 | 46.00 | -34.26 |
| 4 | 374.62 | 2.13 | 15.97 | 26.97 | 25.22 | 16.35 | 46.00 | -29.65 |
| 5 | 560.69 | 2.66 | 18.99 | 27.60 | 26.13 | 20.18 | 46.00 | -25.82 |
| 6 pp | 711.67 | 2.94 | 21.60 | 27.40 | 26.48 | 23.62 | 46.00 | -22.38 |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2412 TX RSE

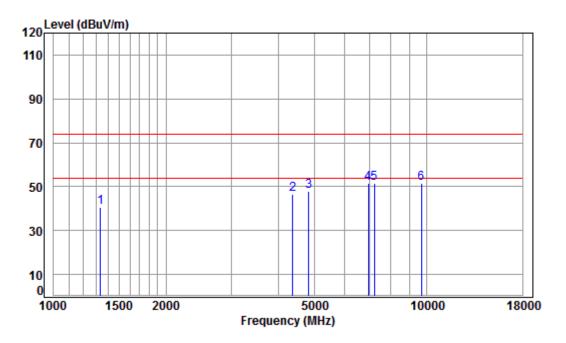
| | : 2.4 | G MILI | TID | | | | | | |
|-----|------------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 4 | 1405 041 | 4 45 | 25 74 | 20 05 | 40.72 | 44 07 | 74.00 | 22 42 | |
| 1 | 1485.841 | 4.45 | 25.74 | 38.05 | 49.73 | 41.8/ | 74.00 | -32.13 | реак |
| 2 | 4254.921 | 7.00 | 33.60 | 38.13 | 44.40 | 46.87 | 74.00 | -27.13 | peak |
| 3 | 4824.000 | 7.76 | 34.19 | 38.41 | 46.50 | 50.04 | 74.00 | -23.96 | peak |
| 4 | 6776.265 | 9.31 | 35.89 | 37.52 | 44.36 | 52.04 | 74.00 | -21.96 | peak |
| 5 | 7236.000 | 9.67 | 36.40 | 37.09 | 42.44 | 51.42 | 74.00 | -22.58 | peak |
| 6 p | p 9648.000 | 11.10 | 37.53 | 35.08 | 38.88 | 52.43 | 74.00 | -21.57 | peak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2412 TX RSE

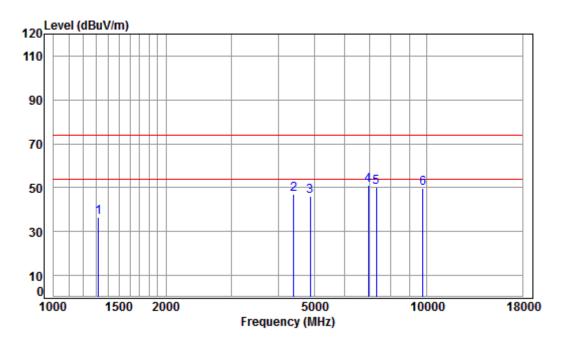
| | : 2.4 | G MILI | TID | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1335.141 | 4.27 | 25.11 | 38.07 | 49.16 | 40.47 | 74.00 | -33.53 | peak |
| 2 | 4367.058 | 7.13 | 33.60 | 38.18 | 44.00 | 46.55 | 74.00 | -27.45 | peak |
| 3 | 4824.000 | 7.76 | 34.19 | 38.41 | 44.44 | 47.98 | 74.00 | -26.02 | peak |
| 4 | 6954.852 | 9.47 | 36.38 | 37.35 | 42.99 | 51.49 | 74.00 | -22.51 | peak |
| 5 pp | 7236.000 | 9.67 | 36.40 | 37.09 | 42.76 | 51.74 | 74.00 | -22.26 | peak |
| 6 | 9648,000 | 11.10 | 37 53 | 35 08 | 37 99 | 51 54 | 74 99 | -22 46 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2437 TX RSE

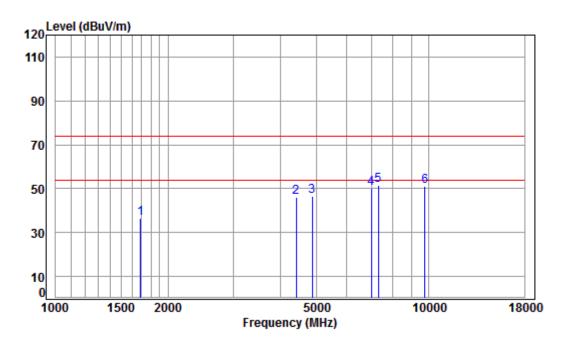
| | | . 2.4 | g MILI | IID | | | | | | |
|---|----|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1319.794 | 4.25 | 25.04 | 38.07 | 45.06 | 36.28 | 74.00 | -37.72 | peak |
| 2 | | 4392.376 | 7.16 | 33.60 | 38.20 | 44.23 | 46.79 | 74.00 | -27.21 | peak |
| 3 | | 4874.000 | 7.83 | 34.28 | 38.44 | 42.21 | 45.88 | 74.00 | -28.12 | peak |
| 4 | рр | 6954.852 | 9.47 | 36.38 | 37.35 | 42.47 | 50.97 | 74.00 | -23.03 | peak |
| 5 | | 7311.000 | 9.72 | 36.37 | 37.02 | 41.12 | 50.19 | 74.00 | -23.81 | peak |
| 6 | | 9748 000 | 11 20 | 37 55 | 35 03 | 36 05 | 19 77 | 7/ 00 | -24 23 | nook |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2437 TX RSE

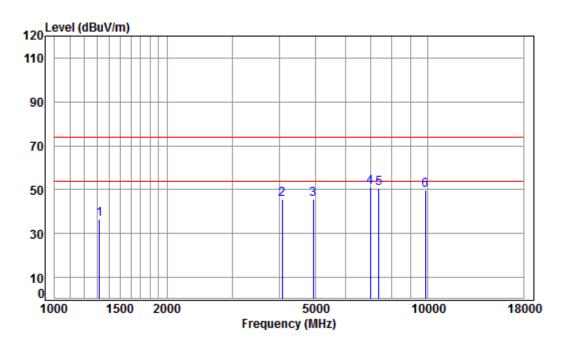
| | : 2.4 | G MILI | TID | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1687.347 | 4.69 | 26.62 | 38.03 | 43.19 | 36.47 | 74.00 | -37.53 | peak |
| 2 | 4405.090 | 7.18 | 33.60 | 38.20 | 43.46 | 46.04 | 74.00 | -27.96 | peak |
| 3 | 4874.000 | 7.83 | 34.28 | 38.44 | 43.02 | 46.69 | 74.00 | -27.31 | peak |
| 4 | 6995.172 | 9.51 | 36.49 | 37.30 | 41.63 | 50.33 | 74.00 | -23.67 | peak |
| 5 pp | 7311.000 | 9.72 | 36.37 | 37.02 | 42.28 | 51.35 | 74.00 | -22.65 | peak |
| 6 | 9748 000 | 11.20 | 37 55 | 35 03 | 37 39 | 51 11 | 74 99 | -22 89 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2462 TX RSE

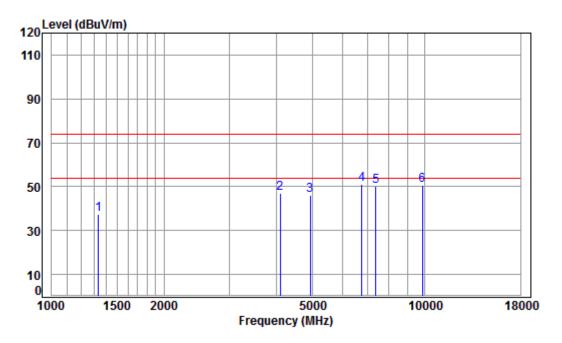
| | : 2.4 | G MTLT | TID | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1319.794 | 4.25 | 25.04 | 38.07 | 45.09 | 36.31 | 74.00 | -37.69 | peak |
| 2 | 4074.388 | 6.79 | 33.60 | 38.04 | 43.34 | 45.69 | 74.00 | -28.31 | peak |
| 3 | 4924.000 | 7.90 | 34.37 | 38.46 | 41.86 | 45.67 | 74.00 | -28.33 | peak |
| 4 pp | 6995.172 | 9.51 | 36.49 | 37.30 | 42.51 | 51.21 | 74.00 | -22.79 | peak |
| 5 | 7386.000 | 9.77 | 36.34 | 36.95 | 41.60 | 50.76 | 74.00 | -23.24 | peak |
| 6 | 9848 000 | 11 29 | 37 57 | 34 98 | 36 05 | 49 93 | 74 99 | -24 97 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2462 TX RSE

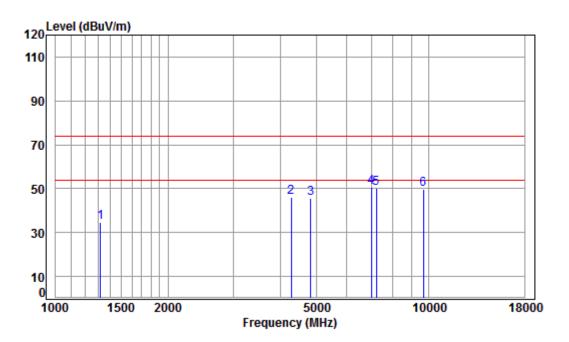
| | : 2.4 | G MTLT | TIB | | | | | | |
|-----|------------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1335.141 | 4.27 | 25.11 | 38.07 | 46.03 | 37.34 | 74.00 | -36.66 | peak |
| 2 | 4098.010 | 6.82 | 33.60 | 38.05 | 44.72 | 47.09 | 74.00 | -26.91 | peak |
| 3 | 4924.000 | 7.90 | 34.37 | 38.46 | 42.12 | 45.93 | 74.00 | -28.07 | peak |
| 4 p | p 6776.265 | 9.31 | 35.89 | 37.52 | 43.37 | 51.05 | 74.00 | -22.95 | peak |
| 5 | 7386.000 | 9.77 | 36.34 | 36.95 | 41.05 | 50.21 | 74.00 | -23.79 | peak |
| 6 | 9848.000 | 11.29 | 37.57 | 34.98 | 36.94 | 50.82 | 74.00 | -23.18 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2412 TX RSE

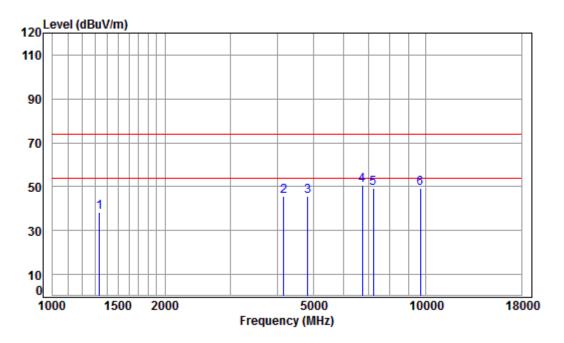
| | : 2.4 | G MTFT | 110 | | | | | | |
|------|----------|--------|--------|--------|-------|----------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | d Bu V/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1319.794 | 4.25 | 25.04 | 38.07 | 43.68 | 34.90 | 74.00 | -39.10 | peak |
| 2 | 4279.589 | 7.03 | 33.60 | 38.14 | 43.42 | 45.91 | 74.00 | -28.09 | peak |
| 3 | 4824.000 | 7.76 | 34.19 | 38.41 | 42.18 | 45.72 | 74.00 | -28.28 | peak |
| 4 pp | 6995.172 | 9.51 | 36.49 | 37.30 | 42.02 | 50.72 | 74.00 | -23.28 | peak |
| 5 | 7236.000 | 9.67 | 36.40 | 37.09 | 41.14 | 50.12 | 74.00 | -23.88 | peak |
| 6 | 9648,000 | 11.10 | 37.53 | 35.08 | 35.99 | 49.54 | 74.00 | -24.46 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2412 TX RSE

· 2 /G WIET 11G

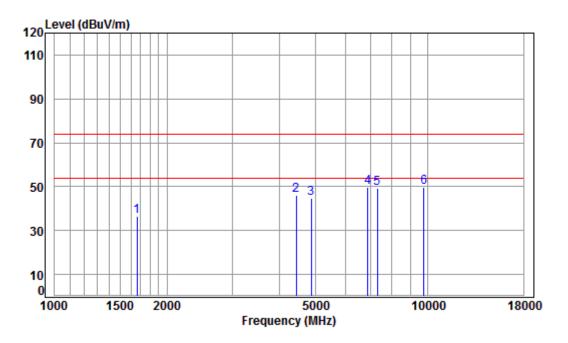
| | : 2.4 | G MTLT | 110 | | | | | | |
|-----|-------------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1335.141 | 4.27 | 25.11 | 38.07 | 47.22 | 38.53 | 74.00 | -35.47 | peak |
| 2 | 4157.664 | 6.89 | 33.60 | 38.08 | 43.39 | 45.80 | 74.00 | -28.20 | peak |
| 3 | 4824.000 | 7.76 | 34.19 | 38.41 | 42.30 | 45.84 | 74.00 | -28.16 | peak |
| 4 p | op 6756.708 | 9.30 | 35.83 | 37.54 | 43.21 | 50.80 | 74.00 | -23.20 | peak |
| 5 | 7236.000 | 9.67 | 36.40 | 37.09 | 40.49 | 49.47 | 74.00 | -24.53 | peak |
| 6 | 9648,000 | 11.10 | 37.53 | 35.08 | 35.57 | 49.12 | 74.00 | -24.88 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2437 TX RSE

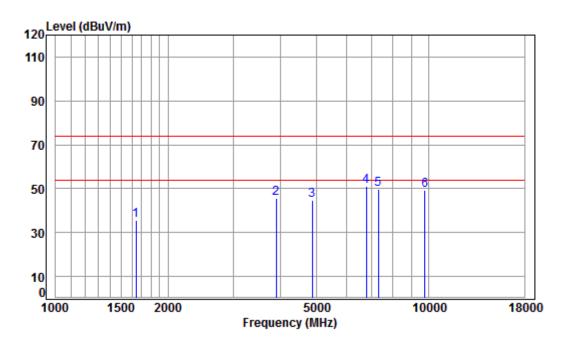
| | : 2.4 | G MILI | 110 | | | | | | |
|-----|------------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1663.137 | 4.66 | 26.52 | 38.03 | 43.39 | 36.54 | 74.00 | -37.46 | peak |
| 2 | 4443.453 | 7.22 | 33.60 | 38.22 | 43.40 | 46.00 | 74.00 | -28.00 | peak |
| 3 | 4874.000 | 7.83 | 34.28 | 38.44 | 40.86 | 44.53 | 74.00 | -29.47 | peak |
| 4 p | p 6894.806 | 9.42 | 36.21 | 37.41 | 41.55 | 49.77 | 74.00 | -24.23 | peak |
| 5 | 7311.000 | 9.72 | 36.37 | 37.02 | 40.29 | 49.36 | 74.00 | -24.64 | peak |
| 6 | 9748 000 | 11 20 | 37 55 | 35 03 | 35 84 | 49 56 | 74 99 | -24 44 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2437 TX RSE

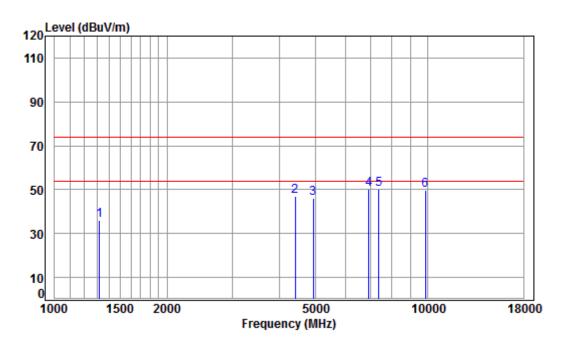
| | : 2.4 | G MILI | 110 | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1644.019 | 4.64 | 26.44 | 38.04 | 42.57 | 35.61 | 74.00 | -38.39 | peak |
| 2 | 3901.516 | 6.63 | 33.34 | 37.99 | 43.87 | 45.85 | 74.00 | -28.15 | peak |
| 3 | 4874.000 | 7.83 | 34.28 | 38.44 | 41.02 | 44.69 | 74.00 | -29.31 | peak |
| 4 pp | 6795.879 | 9.33 | 35.94 | 37.50 | 43.13 | 50.90 | 74.00 | -23.10 | peak |
| 5 | 7311.000 | 9.72 | 36.37 | 37.02 | 40.55 | 49.62 | 74.00 | -24.38 | peak |
| 6 | 9748,000 | 11.20 | 37.55 | 35.03 | 35.38 | 49.10 | 74.00 | -24.90 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2462 TX RSE

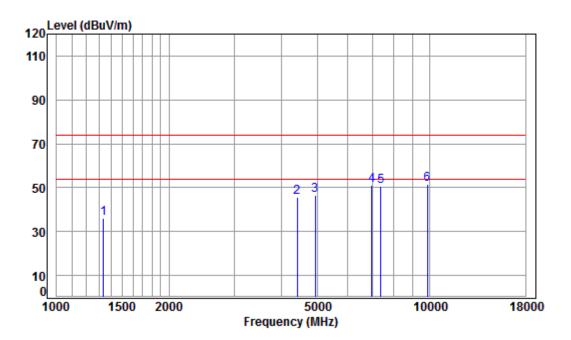
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1319.794 | 4.25 | 25.04 | 38.07 | 44.85 | 36.07 | 74.00 | -37.93 | peak |
| 2 | 4405.090 | 7.18 | 33.60 | 38.20 | 44.28 | 46.86 | 74.00 | -27.14 | peak |
| 3 | 4924.000 | 7.90 | 34.37 | 38.46 | 42.45 | 46.26 | 74.00 | -27.74 | peak |
| 4 pp | 6934.778 | 9.45 | 36.32 | 37.37 | 41.95 | 50.35 | 74.00 | -23.65 | peak |
| 5 | 7386.000 | 9.77 | 36.34 | 36.95 | 41.03 | 50.19 | 74.00 | -23.81 | peak |
| 6 | 9848.000 | 11.29 | 37.57 | 34.98 | 35.64 | 49.52 | 74.00 | -24.48 | peak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11g; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2462 TX RSE

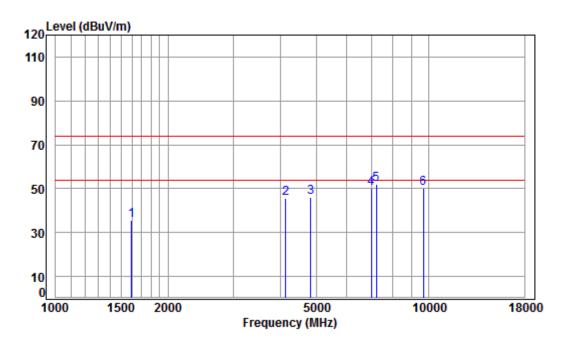
| | | : 2.4 | G MTFT | 110 | | | | | | |
|---|----|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1335.141 | 4.27 | 25.11 | 38.07 | 44.64 | 35.95 | 74.00 | -38.05 | peak |
| 2 | | 4405.090 | 7.18 | 33.60 | 38.20 | 42.99 | 45.57 | 74.00 | -28.43 | peak |
| 3 | | 4924.000 | 7.90 | 34.37 | 38.46 | 42.81 | 46.62 | 74.00 | -27.38 | peak |
| 4 | | 6974.982 | 9.49 | 36.43 | 37.33 | 42.61 | 51.20 | 74.00 | -22.80 | peak |
| 5 | | 7386.000 | 9.77 | 36.34 | 36.95 | 41.26 | 50.42 | 74.00 | -23.58 | peak |
| 6 | nn | 9848,000 | 11.29 | 37.57 | 34.98 | 37.62 | 51.50 | 74.00 | -22.50 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2412 TX RSE

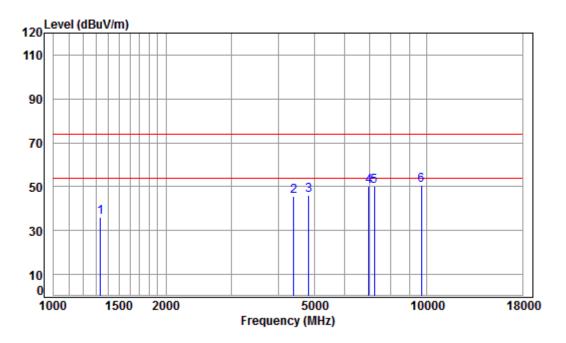
| | : Z.4 | G MILI | TIM | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1597.181 | 4.59 | 26.24 | 38.04 | 43.00 | 35.79 | 74.00 | -38.21 | peak |
| 2 | 4133.699 | 6.86 | 33.60 | 38.07 | 43.35 | 45.74 | 74.00 | -28.26 | peak |
| 3 | 4824.000 | 7.76 | 34.19 | 38.41 | 42.45 | 45.99 | 74.00 | -28.01 | peak |
| 4 | 6995.172 | 9.51 | 36.49 | 37.30 | 41.62 | 50.32 | 74.00 | -23.68 | peak |
| 5 pp | 7236.000 | 9.67 | 36.40 | 37.09 | 42.84 | 51.82 | 74.00 | -22.18 | peak |
| 6 | 9648 000 | 11 10 | 37 53 | 35 08 | 36 83 | 50 38 | 74 99 | -23 62 | neak |



Report No.: SZEM170600634202

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Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2412 TX RSE

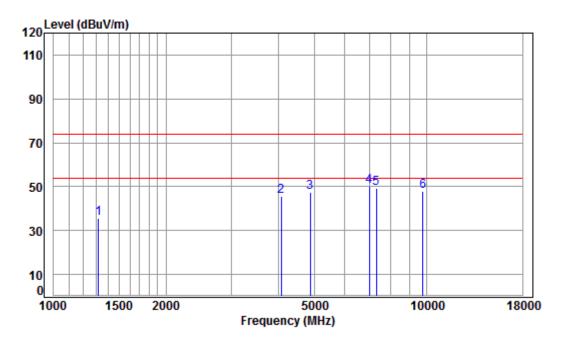
| | | : 2.4 | G MTLT | TIN | | | | | | |
|---|----|----------|--------|--------|--------|-------|--------|--------|----------------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1335.141 | 4.27 | 25.11 | 38.07 | 44.62 | 35.93 | 74.00 | -38.07 | peak |
| 2 | | 4392.376 | 7.16 | 33.60 | 38.20 | 42.86 | 45.42 | 74.00 | -28.58 | peak |
| 3 | | 4824.000 | 7.76 | 34.19 | 38.41 | 42.51 | 46.05 | 74.00 | -27.95 | peak |
| 4 | | 6974.982 | 9.49 | 36.43 | 37.33 | 41.45 | 50.04 | 74.00 | -23.96 | peak |
| 5 | | 7236.000 | 9.67 | 36.40 | 37.09 | 41.20 | 50.18 | 74.00 | -23.82 | peak |
| 6 | nn | 9648,000 | 11 10 | 37 53 | 35 08 | 37 04 | 50 59 | 74 99 | -23 4 1 | neak |



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Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2437 TX RSE

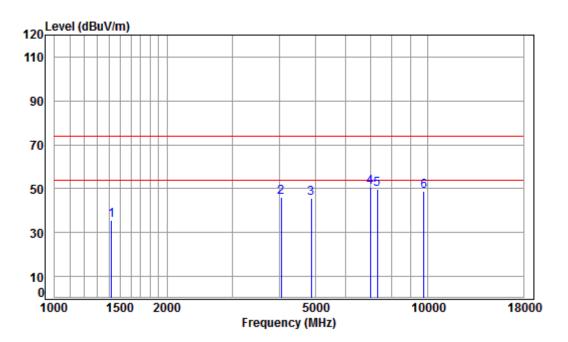
| | | : 2.4 | G MILI | TIM | | | | | | |
|---|----|----------|--------|--------|--------|---------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1319.794 | 4.25 | 25.04 | 38.07 | 44.31 | 35.53 | 74.00 | -38.47 | peak |
| 2 | | 4074.388 | 6.79 | 33.60 | 38.04 | 43.21 | 45.56 | 74.00 | -28.44 | peak |
| 3 | | 4874.000 | 7.83 | 34.28 | 38.44 | 43.96 | 47.63 | 74.00 | -26.37 | peak |
| 4 | pp | 6995.172 | 9.51 | 36.49 | 37.30 | 41.70 | 50.40 | 74.00 | -23.60 | peak |
| 5 | | 7311.000 | 9.72 | 36.37 | 37.02 | 40.41 | 49.48 | 74.00 | -24.52 | peak |
| 6 | | 9748 000 | 11 20 | 37 55 | 35 03 | 3/1 //1 | 48 13 | 74 99 | -25 87 | neak |



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Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2437 TX RSE

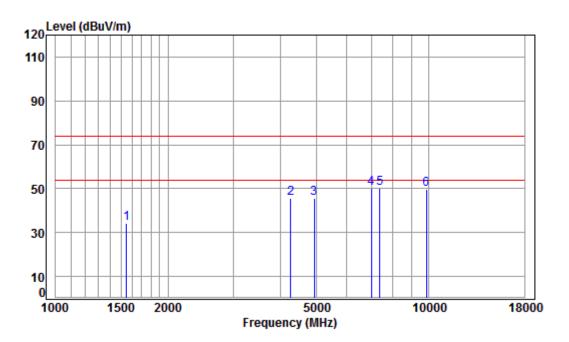
| | : 2.4 | G MILI | TIN | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| _ | | | | | | | | | |
| 1 | 1422.798 | 4.38 | 25.49 | 38.06 | 43.99 | 35.80 | 74.00 | -38.20 | peak |
| 2 | 4039.212 | 6.75 | 33.60 | 38.02 | 43.78 | 46.11 | 74.00 | -27.89 | peak |
| 3 | 4874.000 | 7.83 | 34.28 | 38.44 | 42.00 | 45.67 | 74.00 | -28.33 | peak |
| 4 pp | 6995.172 | 9.51 | 36.49 | 37.30 | 42.03 | 50.73 | 74.00 | -23.27 | peak |
| 5 | 7311.000 | 9.72 | 36.37 | 37.02 | 40.51 | 49.58 | 74.00 | -24.42 | peak |
| 6 | 9748.000 | 11.20 | 37.55 | 35.03 | 35.13 | 48.85 | 74.00 | -25.15 | neak |



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Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 06342CR

Mode : 2462 TX RSE

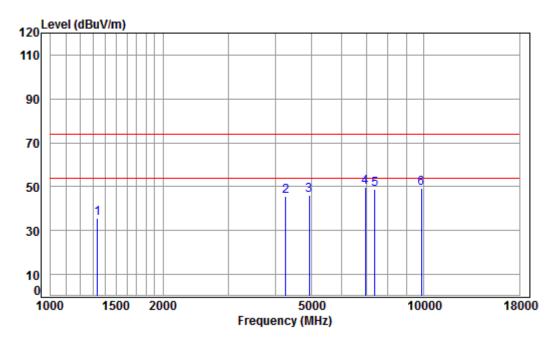
| | . 2.4 | a MILI | TTIA | | | | | | |
|------|-----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1547.199 | 4.53 | 26.02 | 38.05 | 41.81 | 34.31 | 74.00 | -39.69 | peak |
| 2 | 4267.237 | 7.02 | 33.60 | 38.13 | 42.92 | 45.41 | 74.00 | -28.59 | peak |
| 3 | 4924.000 | 7.90 | 34.37 | 38.46 | 41.72 | 45.53 | 74.00 | -28.47 | peak |
| 4 pp | 6995.172 | 9.51 | 36.49 | 37.30 | 41.57 | 50.27 | 74.00 | -23.73 | peak |
| 5 | 7386.000 | 9.77 | 36.34 | 36.95 | 40.93 | 50.09 | 74.00 | -23.91 | peak |
| 6 | 98/18 000 | 11 29 | 37 57 | 3/1 98 | 35 72 | 19 60 | 7/ 00 | -24 40 | neak |



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Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 06342CR

Mode : 2462 TX RSE

| | | : 2.4 | G MTFT | TIN | | | | | | |
|-----|----|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1335.141 | 4.27 | 25.11 | 38.07 | 44.33 | 35.64 | 74.00 | -38.36 | peak |
| 2 | | 4267.237 | 7.02 | 33.60 | 38.13 | 43.32 | 45.81 | 74.00 | -28.19 | peak |
| 3 | | 4924.000 | 7.90 | 34.37 | 38.46 | 42.20 | 46.01 | 74.00 | -27.99 | peak |
| 4 p | рр | 6954.852 | 9.47 | 36.38 | 37.35 | 41.38 | 49.88 | 74.00 | -24.12 | peak |
| 5 | | 7386.000 | 9.77 | 36.34 | 36.95 | 39.61 | 48.77 | 74.00 | -25.23 | peak |
| 6 | | 9848,000 | 11.29 | 37.57 | 34.98 | 35.38 | 49.26 | 74.00 | -24.74 | neak |



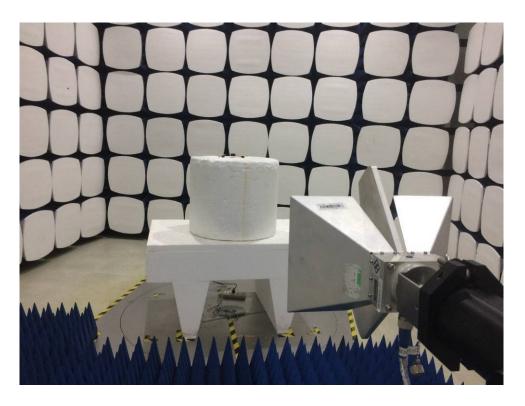
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8 Photographs

8.1 Radiated Spurious Emissions Test Setup





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8.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1706006342CR.



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9 Appendix

9.1 Appendix 15.247

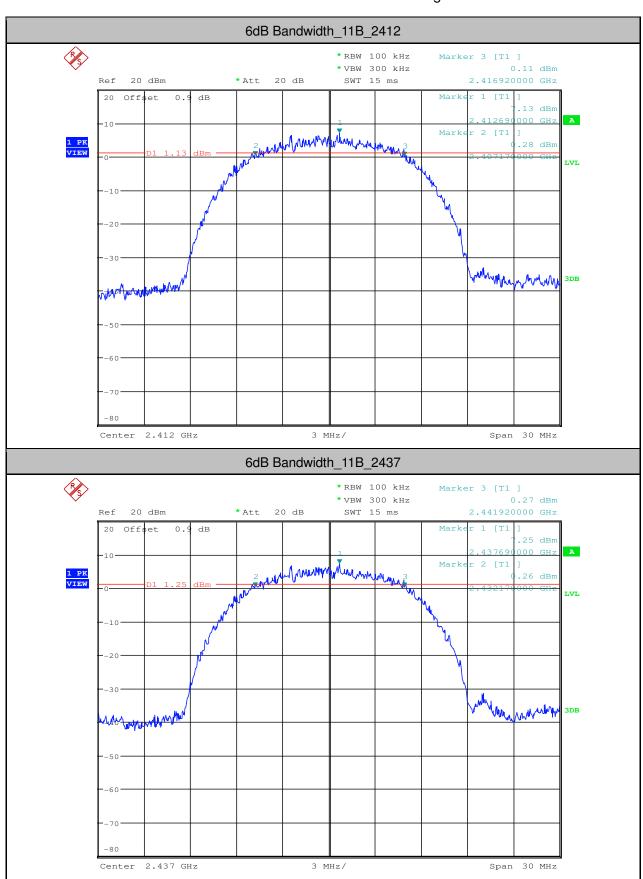
1.6dB Bandwidth

| Test Mode | Test Channel | EBW[MHz] | Limit | Verdict |
|-----------|--------------|----------|-------|---------|
| 11B | 2412 | 9.750 | >=0.5 | PASS |
| 11B | 2437 | 9.750 | >=0.5 | PASS |
| 11B | 2462 | 9.960 | >=0.5 | PASS |
| 11G | 2412 | 16.470 | >=0.5 | PASS |
| 11G | 2437 | 16.500 | >=0.5 | PASS |
| 11G | 2462 | 16.455 | >=0.5 | PASS |
| 11N20SISO | 2412 | 17.700 | >=0.5 | PASS |
| 11N20SISO | 2437 | 17.640 | >=0.5 | PASS |
| 11N20SISO | 2462 | 17.670 | >=0.5 | PASS |



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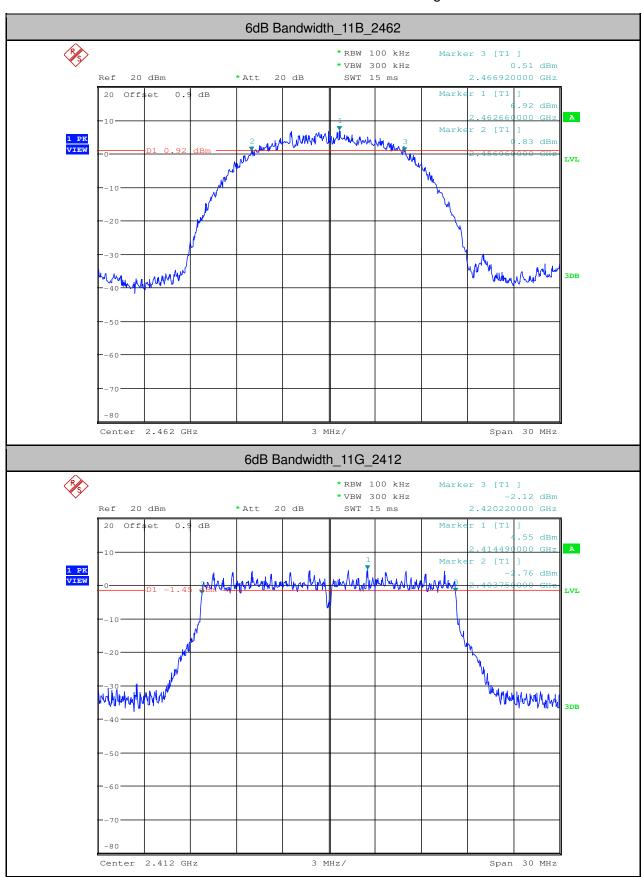
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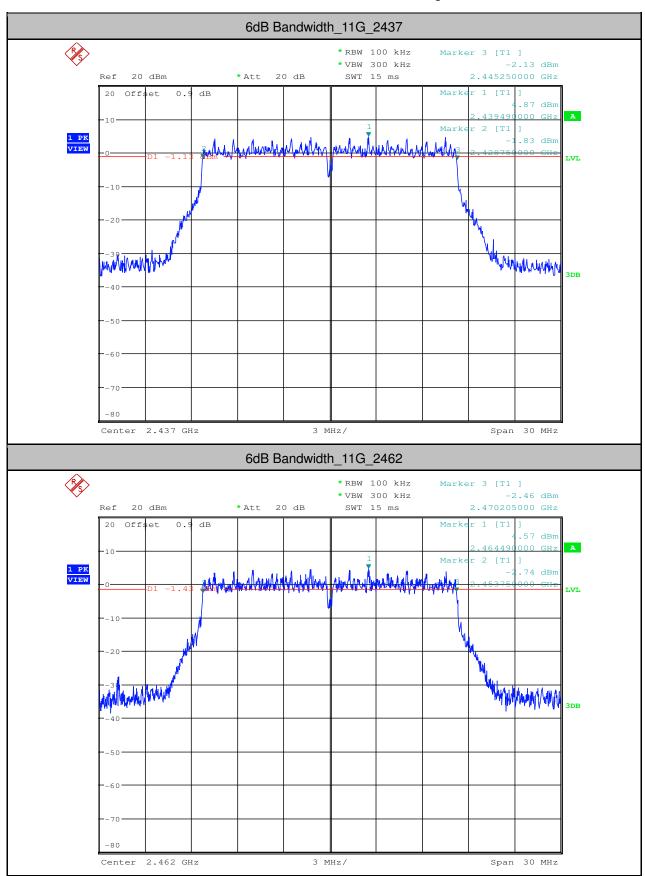
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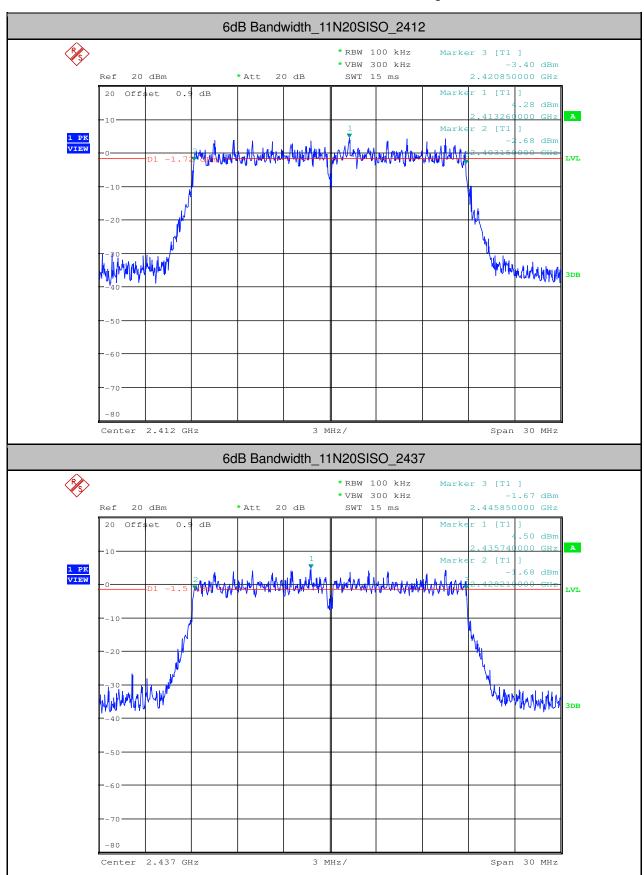
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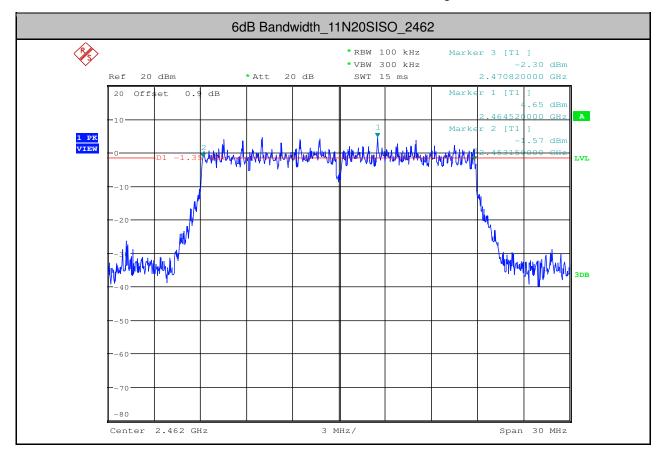
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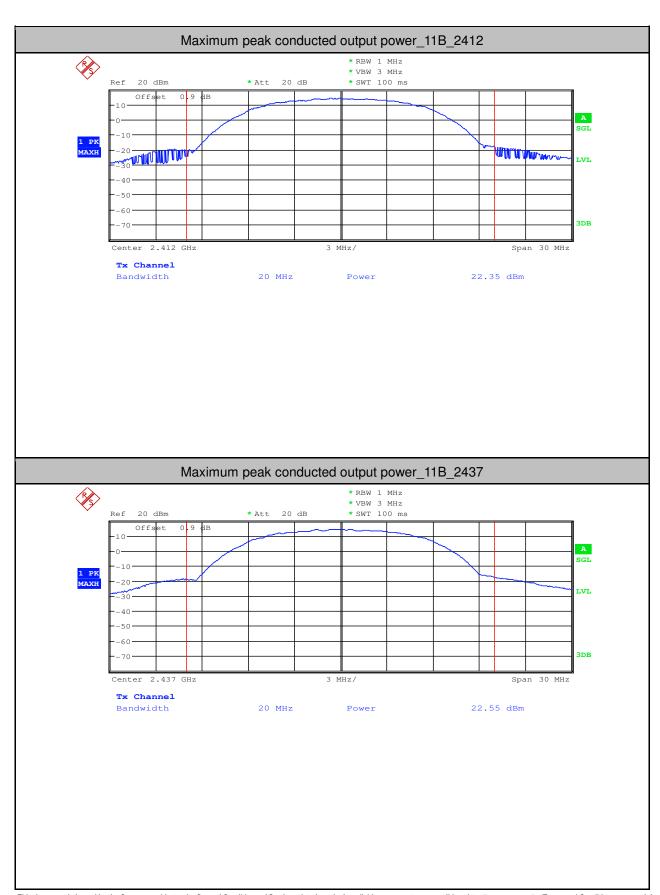
2.Maximum peak conducted output power

| Test Mode | Test Channel | Power[dBm] | Limit[dBm] | Verdict |
|-----------|--------------|------------|------------|---------|
| 11B | 2412 | 22.35 | <30 | PASS |
| 11B | 2437 | 22.55 | <30 | PASS |
| 11B | 2462 | 22.52 | <30 | PASS |
| 11G | 2412 | 24.59 | <30 | PASS |
| 11G | 2437 | 24.8 | <30 | PASS |
| 11G | 2462 | 24.59 | <30 | PASS |
| 11N20SISO | 2412 | 24.38 | <30 | PASS |
| 11N20SISO | 2437 | 24.46 | <30 | PASS |
| 11N20SISO | 2462 | 24.36 | <30 | PASS |



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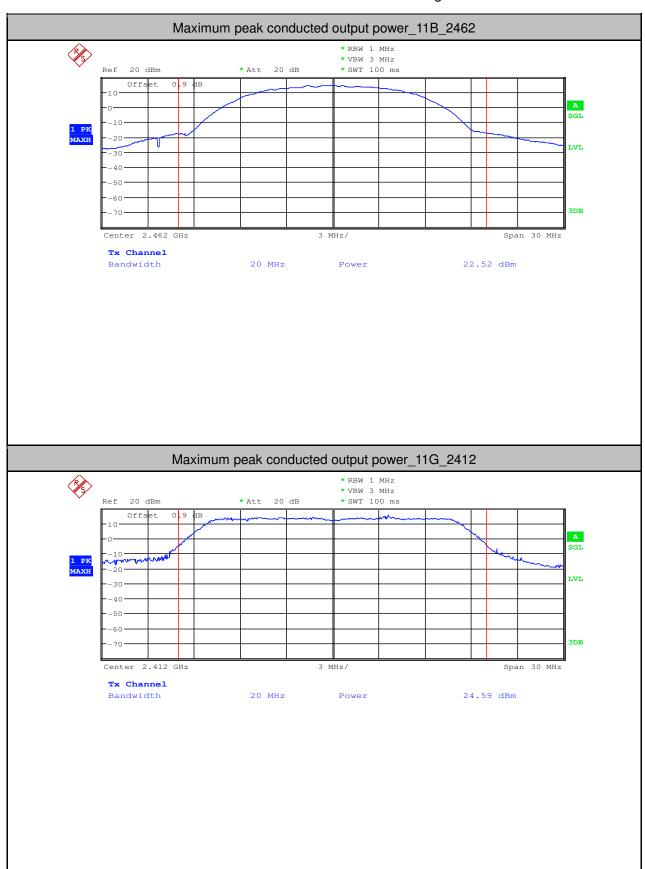
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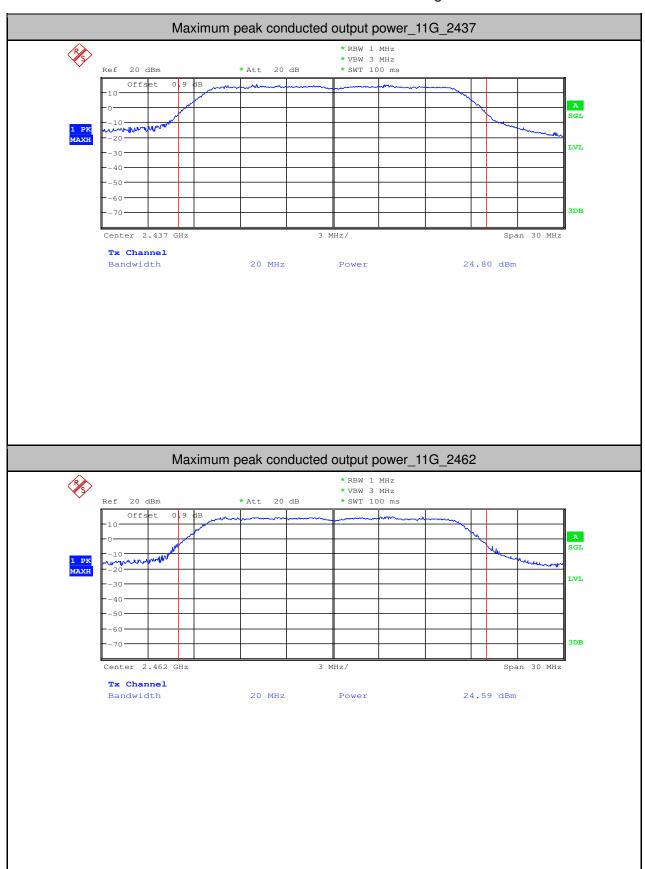
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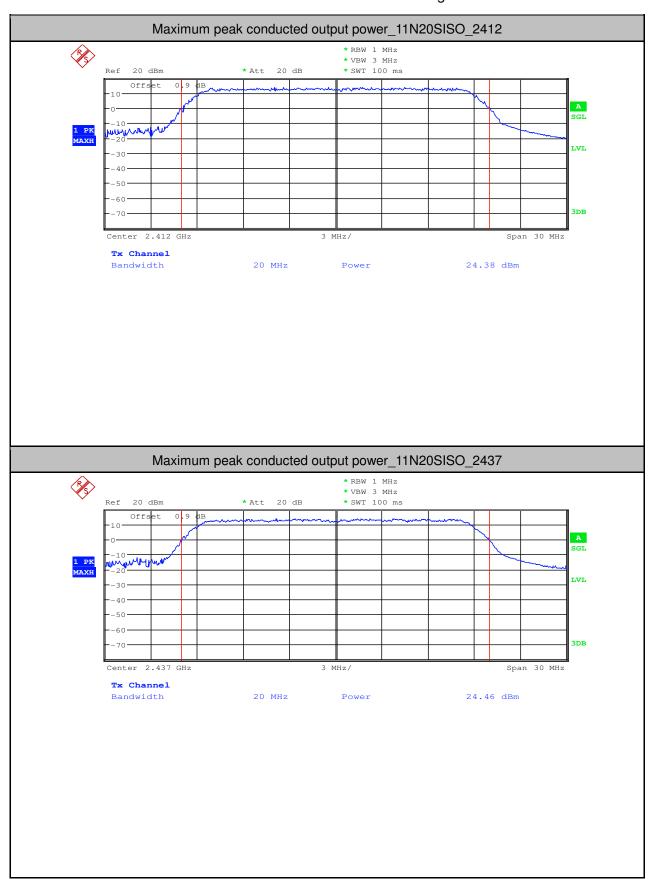
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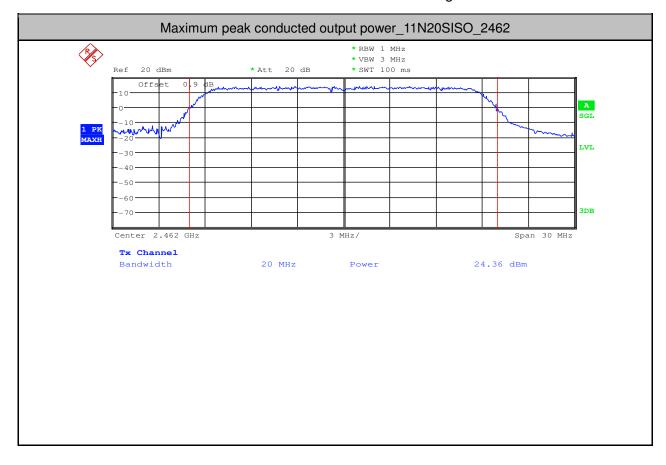
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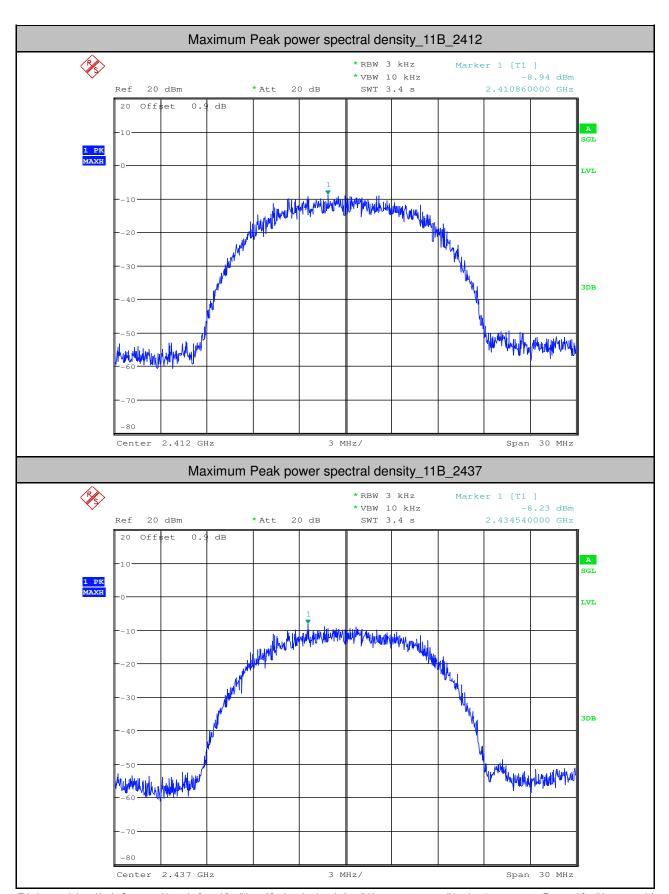
3. Maximum Peak power spectral density

| Test Mode | Test Channel | PSD[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|--------------|---------------|-----------------|---------|
| 11B | 2412 | -8.94 | <8.00 | PASS |
| 11B | 2437 | -8.23 | <8.00 | PASS |
| 11B | 2462 | -8.18 | <8.00 | PASS |
| 11G | 2412 | -10.59 | <8.00 | PASS |
| 11G | 2437 | -10.66 | <8.00 | PASS |
| 11G | 2462 | -10.45 | <8.00 | PASS |
| 11N20SISO | 2412 | -11.8 | <8.00 | PASS |
| 11N20SISO | 2437 | -10.27 | <8.00 | PASS |
| 11N20SISO | 2462 | -11.78 | <8.00 | PASS |



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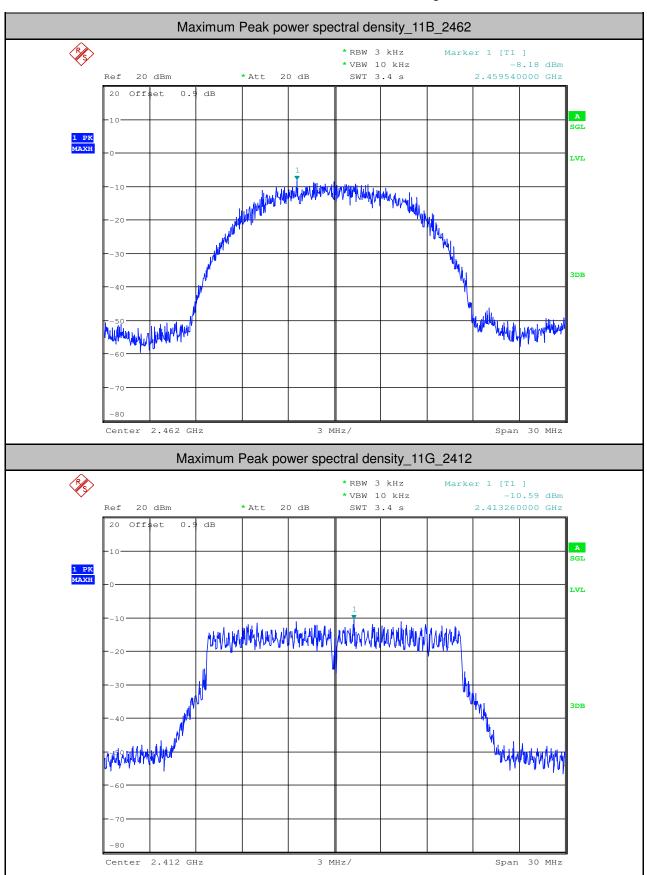


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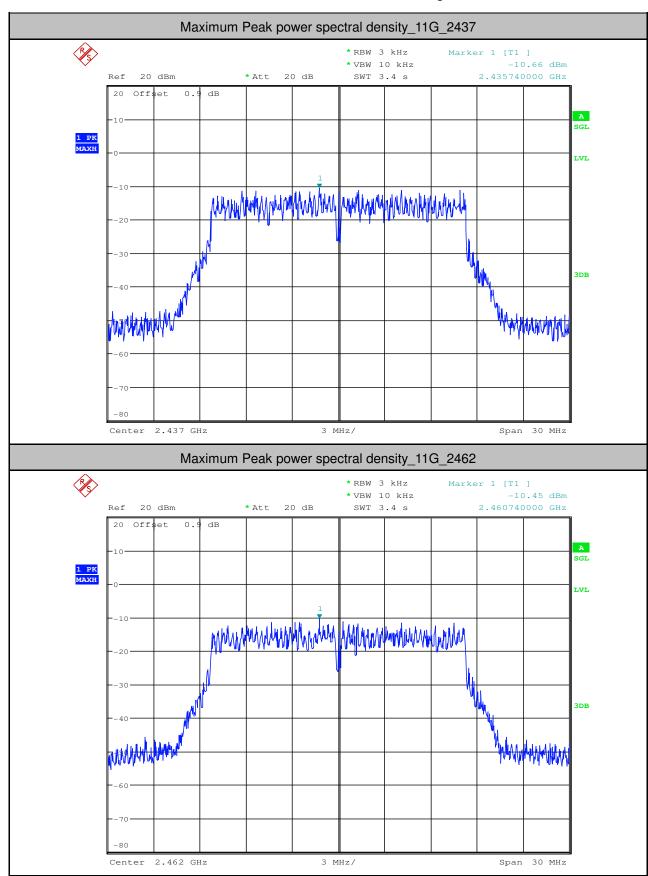


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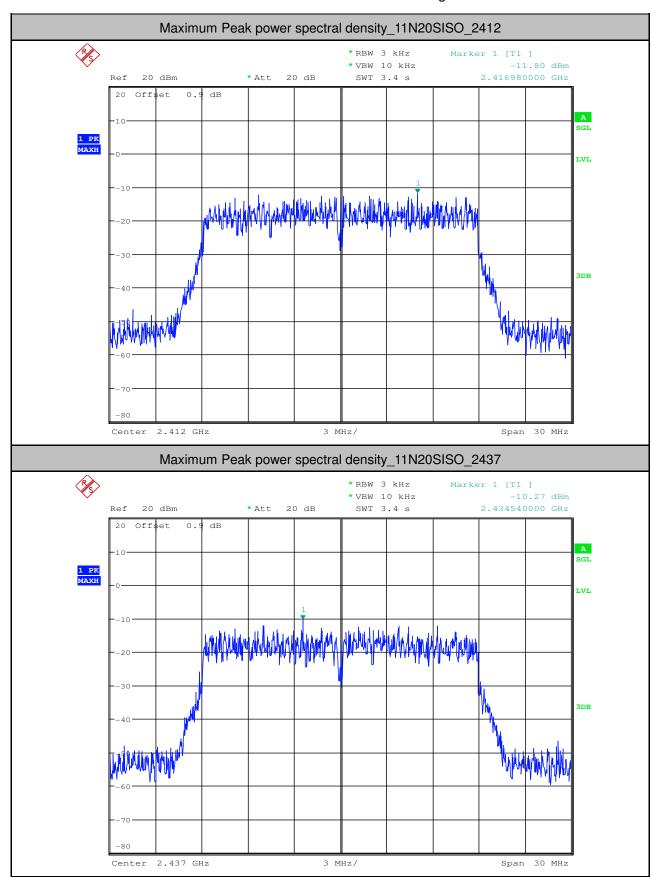


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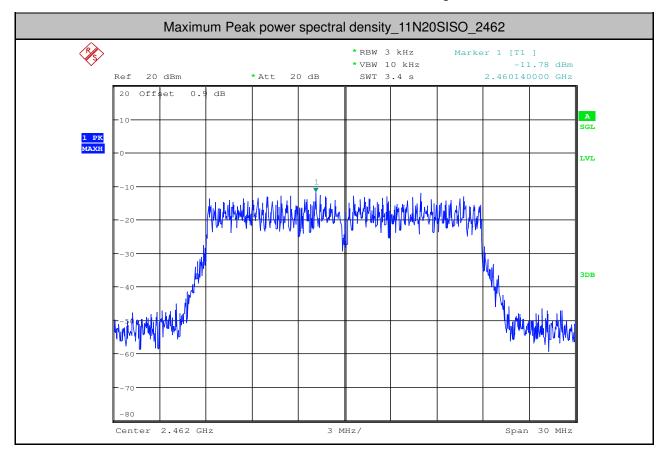
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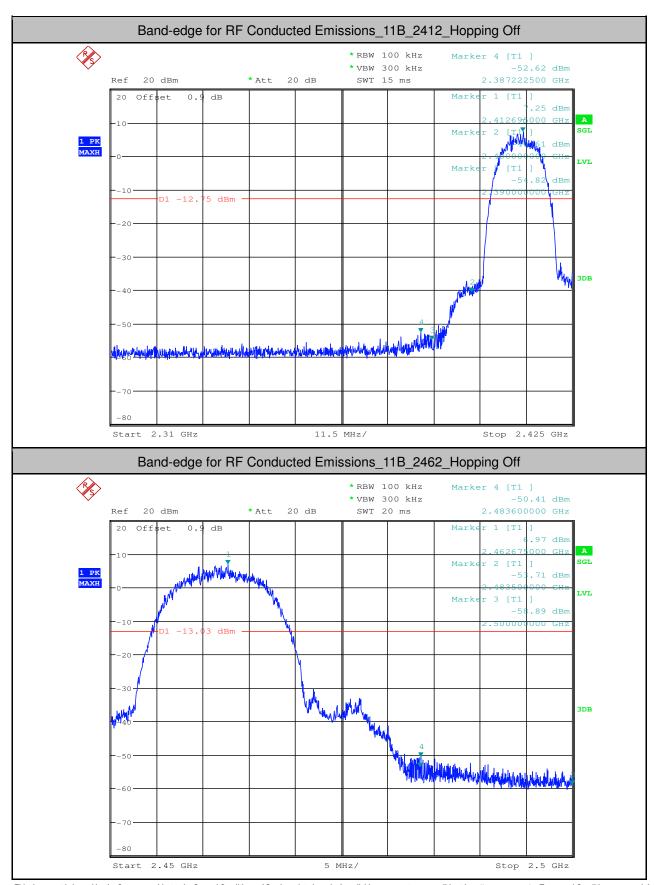
4.Band-edge for RF Conducted Emissions

| Test Mode | Test Channel | Carrier Power[dBm] | • | | Verdict |
|--------------|-----------------|-----------------------|---------|---------|---------|
| 11B | 2412 | 7.250 | -52.619 | <-12.75 | PASS |
| 11B | 2462 | 6.970 | -50.406 | <-13.03 | PASS |
| 11G | 2412 | 4.350 | -40.121 | <-15.65 | PASS |
| 11G | 2462 | 4.410 | -35.640 | <-15.59 | PASS |
| 11N20SISO | 2412 | 4.500 | -38.754 | <-15.5 | PASS |
| 11N20SISO | 2462 | 3.820 | -36.042 | <-16.18 | PASS |



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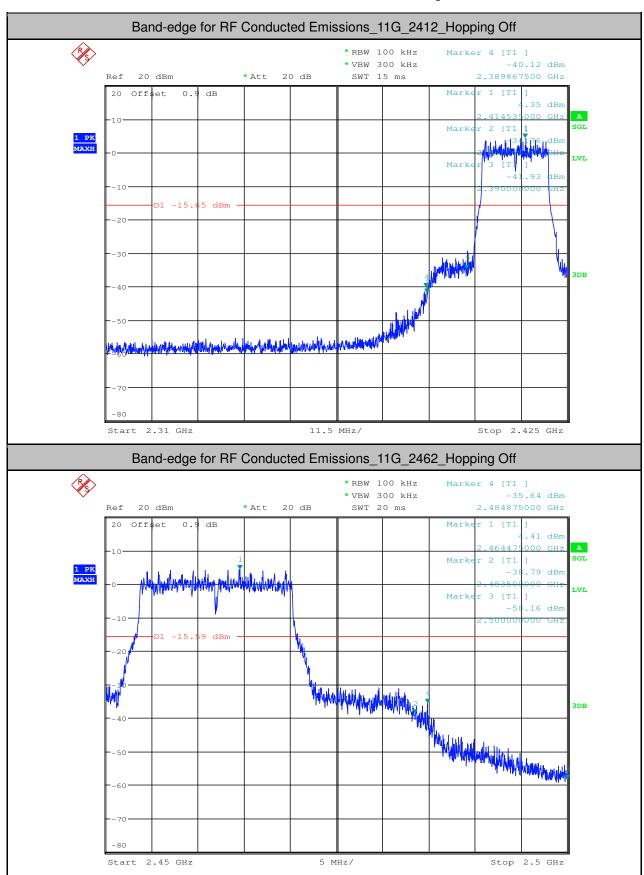


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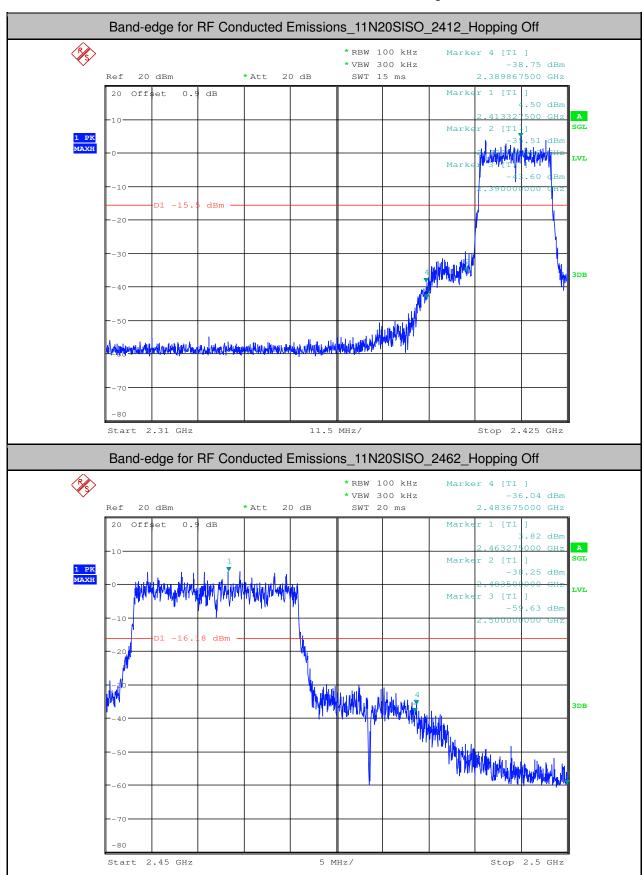
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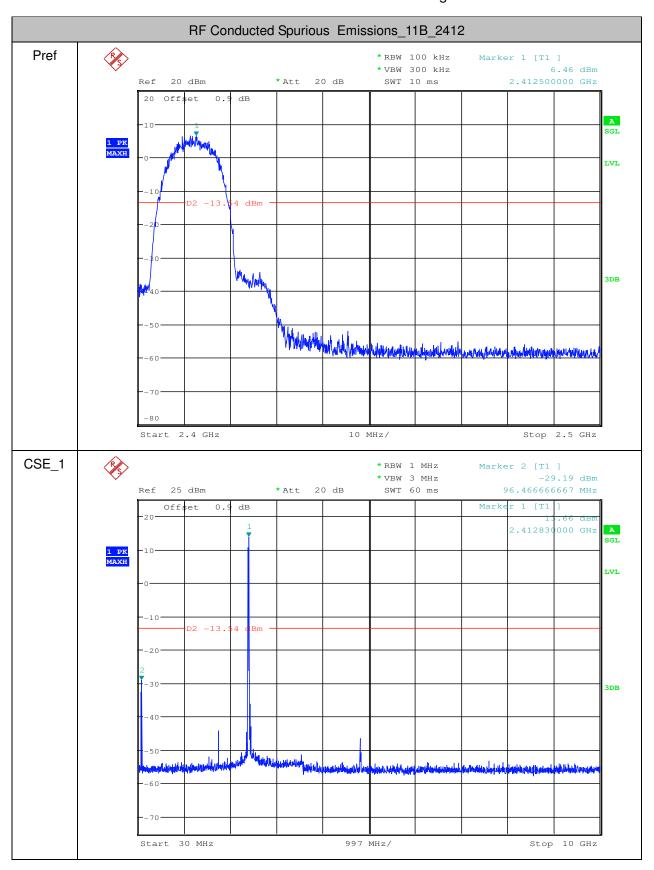
6.RF Conducted Spurious Emissions

| Test Mode | Test Channel | StartFre [MHz] | StopFre [MHz] | RBW [kHz] | VBW [kHz] | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-----------|-----------------|-------------------|------------------|--------------|--------------|---------------|------------------------|----------------|---------|
| 11B | 2412 | 30 | 10000 | 1000 | 3000 | 6.46 | -29.190 | <-13.54 | PASS |
| 11B | 2412 | 10000 | 25000 | 1000 | 3000 | 6.46 | -52.370 | <-13.54 | PASS |
| 11B | 2437 | 30 | 10000 | 1000 | 3000 | 6.55 | -29.840 | <-13.45 | PASS |
| 11B | 2437 | 10000 | 25000 | 1000 | 3000 | 6.55 | -52.590 | <-13.45 | PASS |
| 11B | 2462 | 30 | 10000 | 1000 | 3000 | 6.25 | -32.130 | <-13.75 | PASS |
| 11B | 2462 | 10000 | 25000 | 1000 | 3000 | 6.25 | -52.680 | <-13.75 | PASS |
| 11G | 2412 | 30 | 10000 | 1000 | 3000 | 4.14 | -31.100 | <-15.86 | PASS |
| 11G | 2412 | 10000 | 25000 | 1000 | 3000 | 4.14 | -52.420 | <-15.86 | PASS |
| 11G | 2437 | 30 | 10000 | 1000 | 3000 | 4.3 | -30.700 | <-15.7 | PASS |
| 11G | 2437 | 10000 | 25000 | 1000 | 3000 | 4.3 | -52.440 | <-15.7 | PASS |
| 11G | 2462 | 30 | 10000 | 1000 | 3000 | 4.13 | -31.320 | <-15.87 | PASS |
| 11G | 2462 | 10000 | 25000 | 1000 | 3000 | 4.13 | -52.480 | <-15.87 | PASS |
| 11N20SISO | 2412 | 30 | 10000 | 1000 | 3000 | 4.28 | -32.820 | <-15.72 | PASS |
| 11N20SISO | 2412 | 10000 | 25000 | 1000 | 3000 | 4.28 | -52.810 | <-15.72 | PASS |
| 11N20SISO | 2437 | 30 | 10000 | 1000 | 3000 | 4.14 | -31.940 | <-15.86 | PASS |
| 11N20SISO | 2437 | 10000 | 25000 | 1000 | 3000 | 4.14 | -52.340 | <-15.86 | PASS |
| 11N20SISO | 2462 | 30 | 10000 | 1000 | 3000 | 4.34 | -32.820 | <-15.66 | PASS |
| 11N20SISO | 2462 | 10000 | 25000 | 1000 | 3000 | 4.34 | -52.100 | <-15.66 | PASS |



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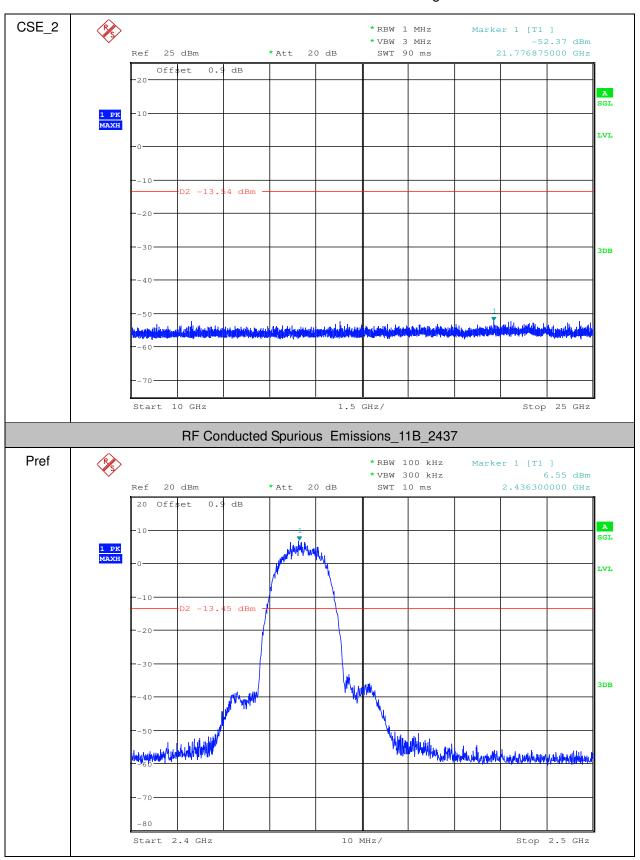
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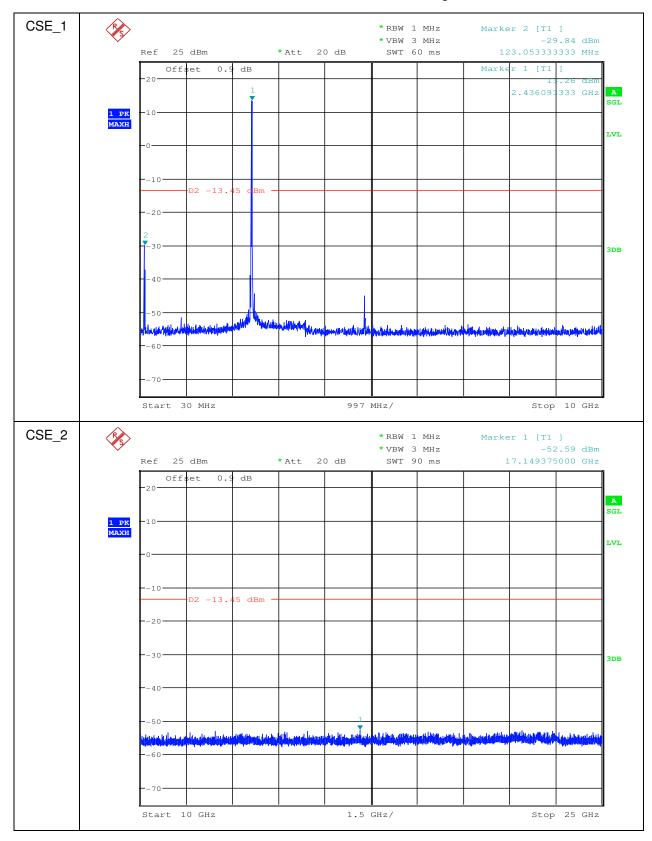
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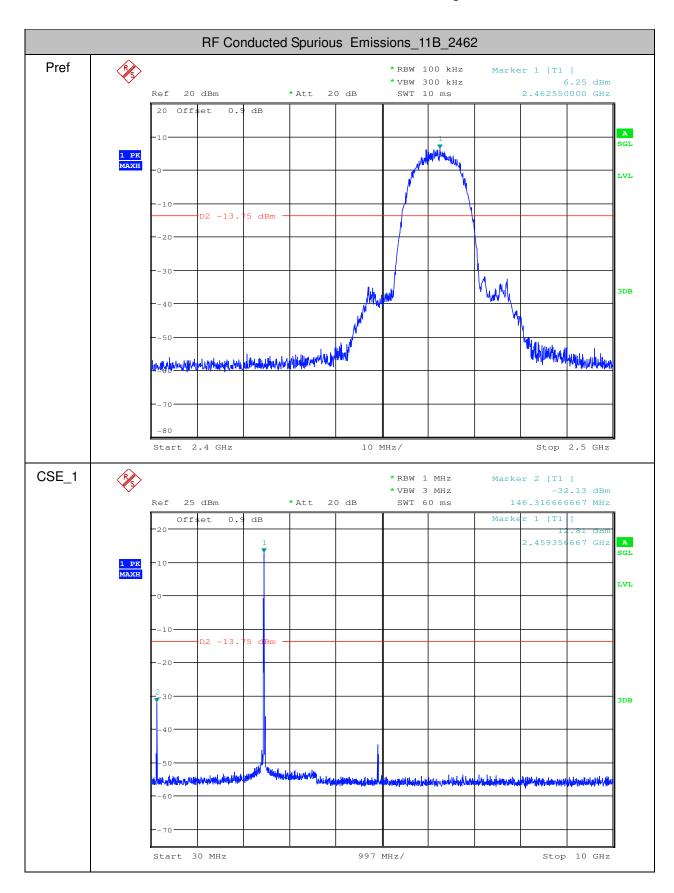
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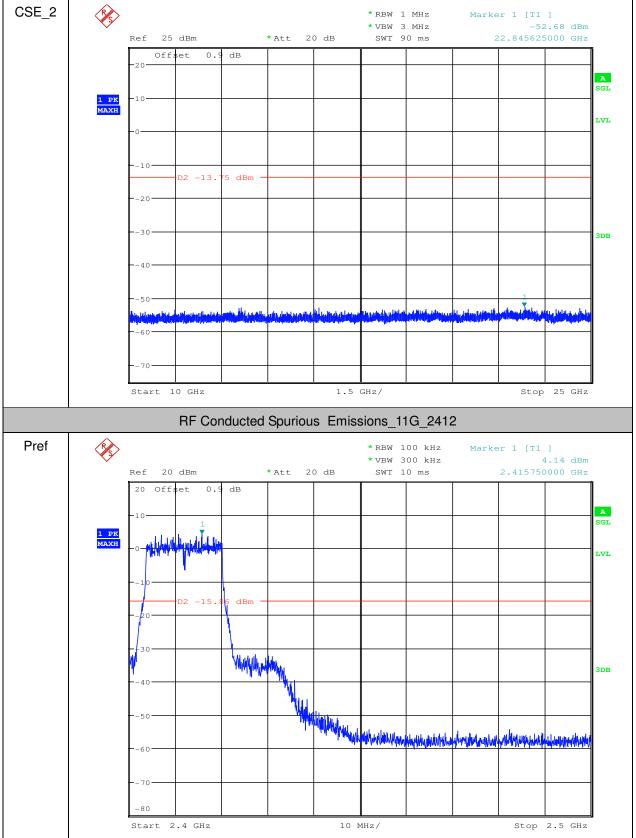
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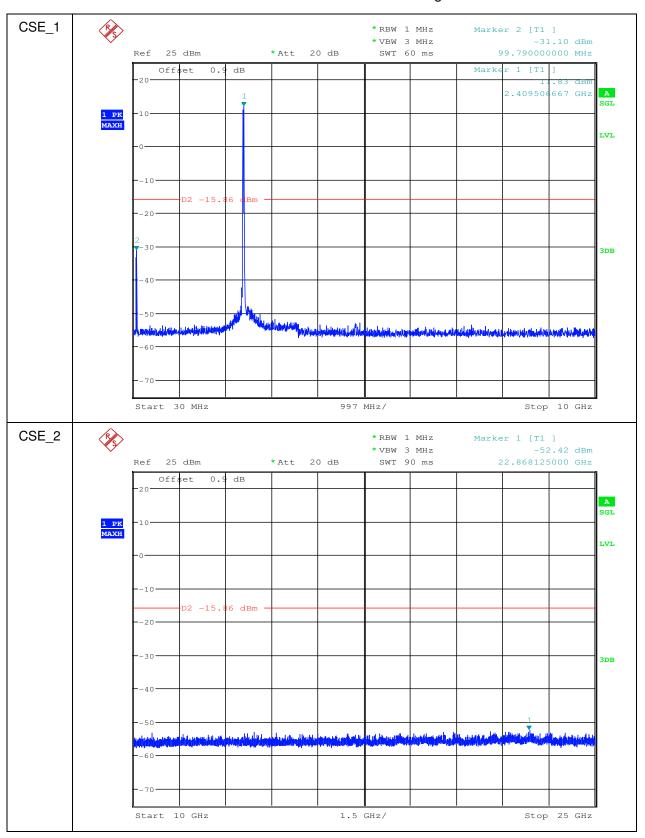






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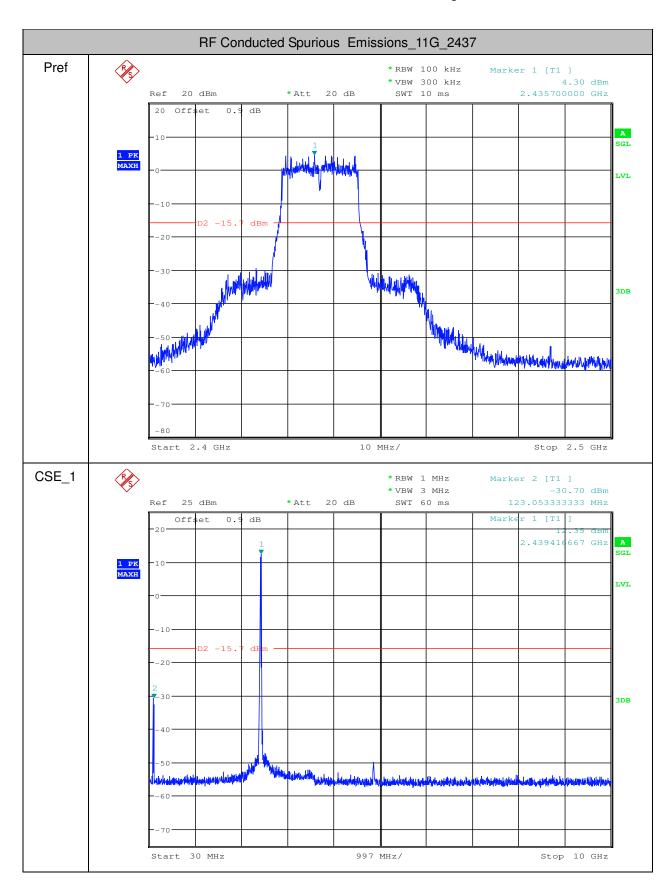
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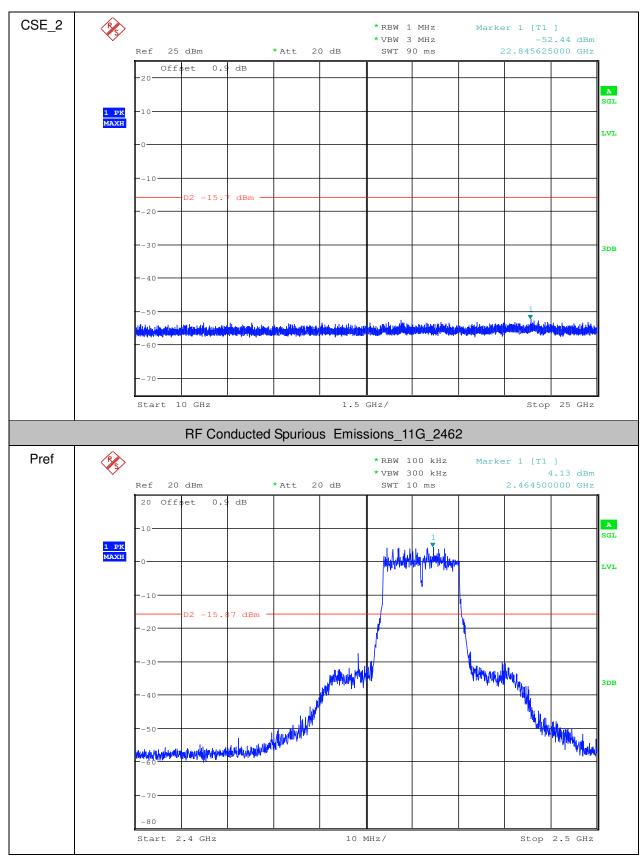
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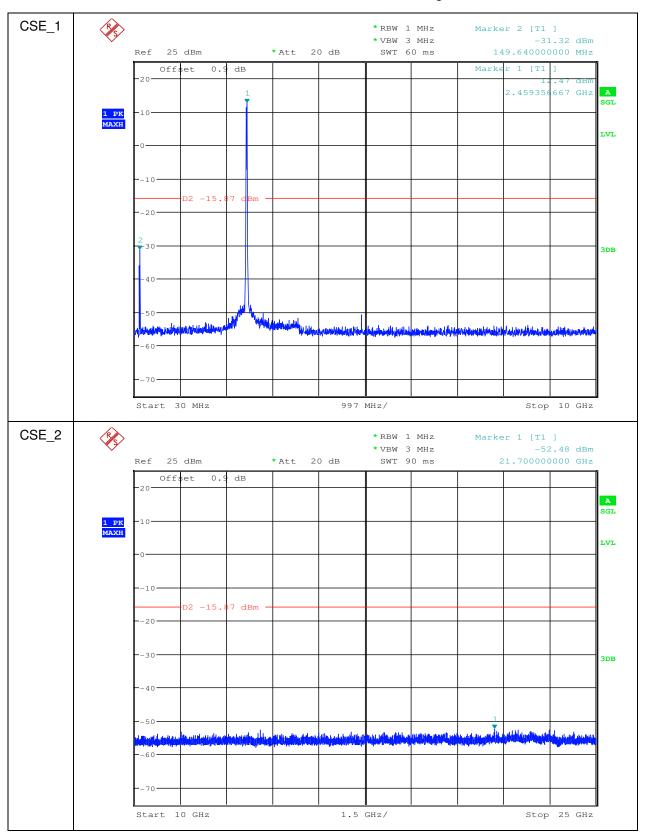
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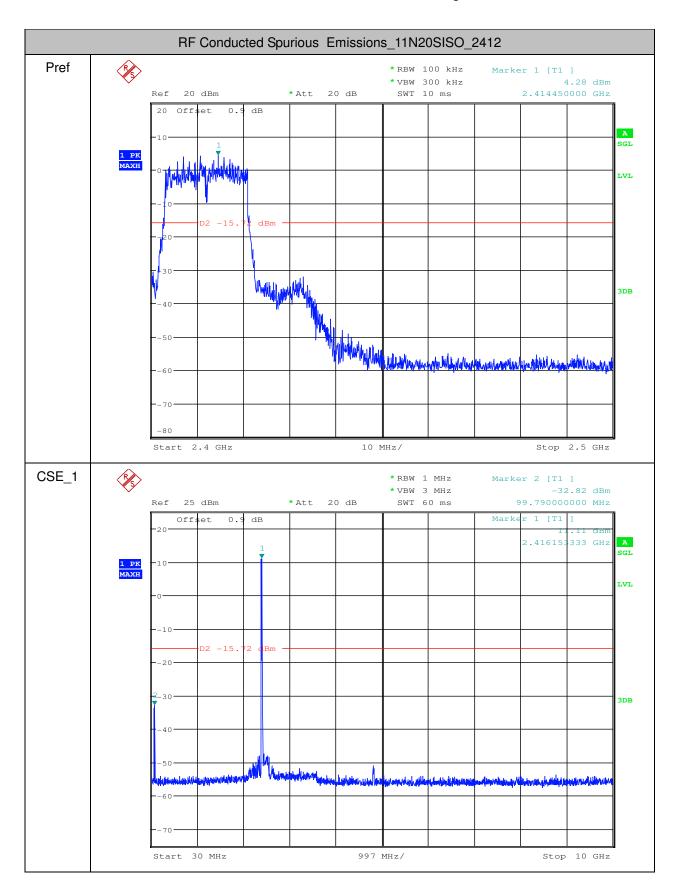
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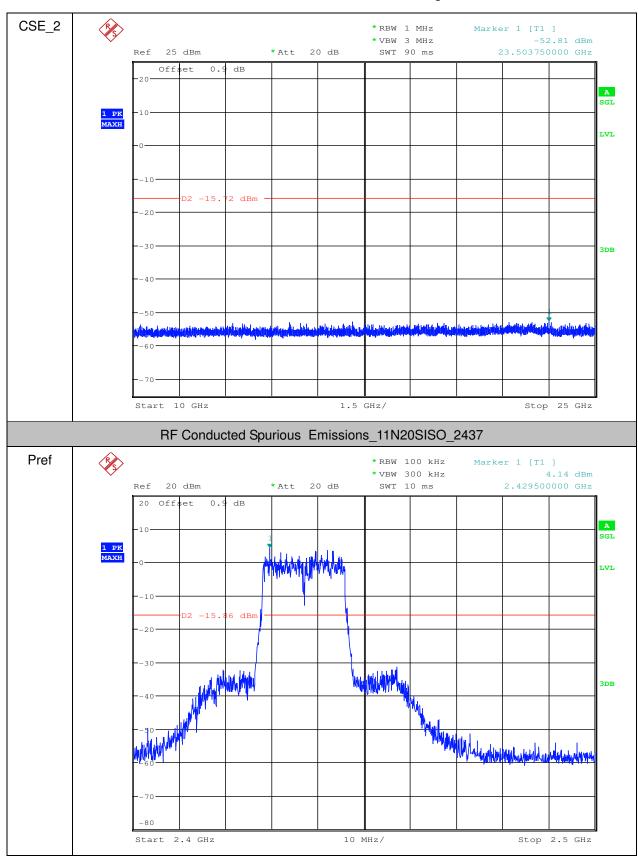
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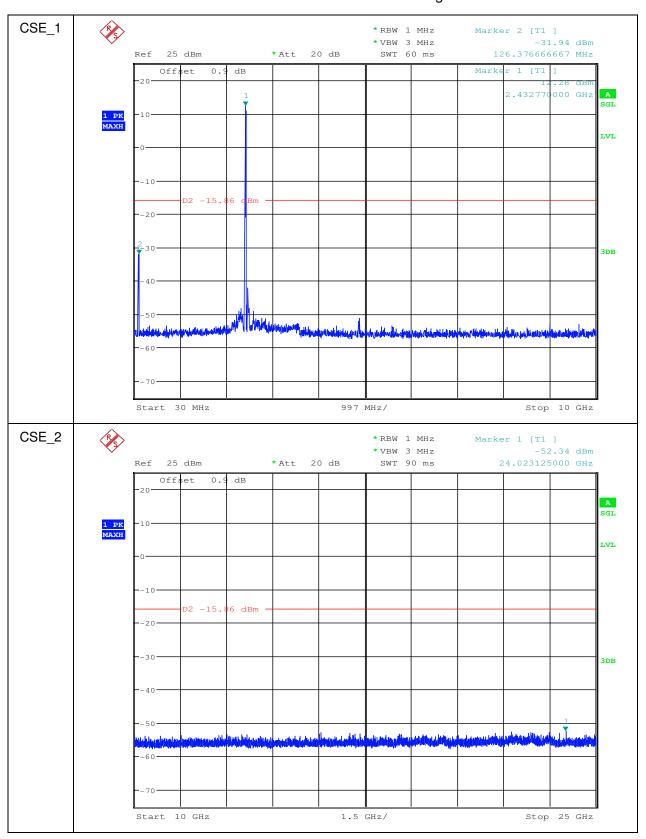
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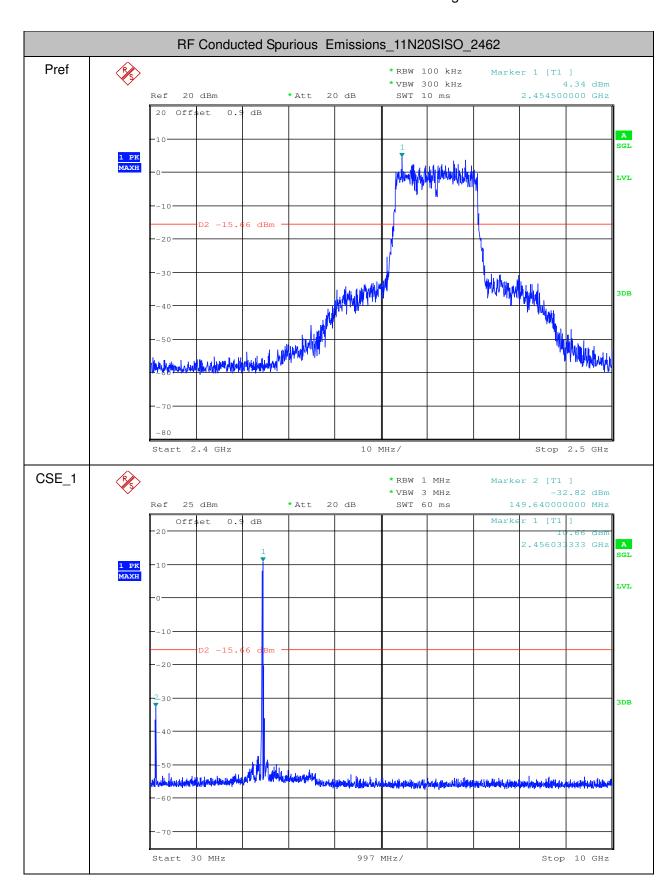
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