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FCC REPORT

Application No: SZEM1801000719RG

Applicant: TCL Communication Ltd.

Manufacturer: TCL Communication Ltd.

Product Name: LTE / UMTS / GSM mobile phone

Model No.(EUT): 5044Y

Trade Mark: alcatel

FCC ID: 2ACCJH088

Standards: 47 CFR Part 15, Subpart C(2018)

Test Method KDB 558074 D01 DTS Meas Guidance v04

ANSI C63.10 (2013)

Date of Receipt: 2018-01-03

Date of Test: 2018-01-04 to 2018-02-01

Date of Issue: 2018-02-02

Test Result: PASS *

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

Authorized Signature:

Derek Yang

Derell young

Wireless 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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2 Version

| Revision Record | | | | | | | |
|--------------------------------------|--|------------|--|----------|--|--|--|
| Version Chapter Date Modifier Remark | | | | | | | |
| 01 | | 2018-02-02 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-------------------------------|------------------|
| Tested By | (Mike Hu) /Project Engineer | 2018-02-02 Date |
| | (wirke tru) /Froject Engineer | Date |
| Checked By | John Hong | 2018-02-02 |
| | (Jim Huang) /Reviewer | Date |



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3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|---|--|------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c) | ANSI C63.10 2013 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10 2013 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C Section 15.247 (b)(3) | ANSI C63.10 2013 | PASS |
| 6dB Occupied Bandwidth | 47 CFR Part 15, Subpart C Section 15.247 (a)(2) | ANSI C63.10 2013 | PASS |
| Power Spectral Density | 47 CFR Part 15, Subpart C Section 15.247 (e) | ANSI C63.10 2013 | PASS |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | ANSI C63.10 2013 | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | ANSI C63.10 2013 | PASS |
| Radiated Spurious Emissions | | | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2013 | PASS |



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5 General Information

5.1 Client Information

| Applicant: | TCL Communication Ltd. | | | | |
|--------------------------|--|--|--|--|--|
| Address of Applicant: | 7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District Shenzhen, Guangdong, P.R. China 518052 | | | | |
| Manufacturer: | TCL Communication Ltd. | | | | |
| Address of Manufacturer: | 7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052 | | | | |
| Factory: | TCL Mobile Communication Co.,LTD.Huizhou | | | | |
| Address: | No.86, Hechang 7th West Road, ZhongKai Hi-tech Development District, Huizhou, Guangdong | | | | |

5.2 General Description of EUT

| Product Name: LTE / UMTS / GSM mobile phone Model No.: 5044Y Trade Mark: alcatel Operation Frequency: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n (HT40): 2422MHz to 2452MHz IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels Channel Separation: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n (HT20 and HT40): OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: PIFA Antenna Gain: -2.5dBi Power Supply DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA Output: DC5.0V 550mA | | | | |
|--|----------------------|---|--|--|
| Trade Mark: alcatel Operation Frequency: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n (HT40): 2422MHz to 2452MHz Channel Numbers: IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels Channel Separation: 5MHz IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n (HT20 and HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n (HT20 and HT40): OFDM (64QAM, 16QAM, 16QAM, QPSK, BPSK) Sample Type: Portable Device Antenna Type: PIFA Antenna Gain: -2.5dBi Power Supply DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Product Name: | LTE / UMTS / GSM mobile phone | | |
| Operation Frequency: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n (HT40): 2422MHz to 2452MHz Channel Numbers: IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels Channel Separation: 5MHz IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n (HT20 and HT40): OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: PIFA Antenna Gain: -2.5dBi Power Supply DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Model No.: | 5044Y | | |
| Operation Frequency: IEEE 802.11n(HT40): 2422MHz to 2452MHz Channel Numbers: IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels IEEE 802.11n HT40: 7 Channels Channel Separation: 5MHz IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: PIFA Antenna Gain: -2.5dBi Power Supply DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 AC adaptor: Input: AC100-240V 50/60Hz 150mA | Trade Mark: | alcatel | | |
| IEEE 802.11n(HT40): 2422MHz to 2452MHz | Operation Fraguency | IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz | | |
| Channel Numbers: IEEE 802.11n HT40: 7 Channels 5MHz IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: Antenna Gain: -2.5dBi DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Operation Frequency. | IEEE 802.11n(HT40): 2422MHz to 2452MHz | | |
| Channel Separation: 5MHz IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: PIFA Antenna Gain: -2.5dBi DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Channal Numberes | IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels | | |
| 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 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: PIFA Antenna Gain: Power Supply DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Channel Numbers. | IEEE 802.11n HT40: 7 Channels | | |
| Type of Modulation: IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: Antenna Gain: -2.5dBi DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Channel Separation: | 5MHz | | |
| Type of Modulation: IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: PIFA Antenna Gain: -2.5dBi DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | | IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) | | |
| IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK) Sample Type: Portable Device Antenna Type: PIFA Antenna Gain: -2.5dBi Power Supply DC 3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Type of Madulation: | IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) | | |
| Sample Type: Antenna Type: PIFA Antenna Gain: -2.5dBi DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Type of Modulation. | IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, | | |
| Antenna Type: PIFA Antenna Gain: -2.5dBi Power Supply DC 3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | | QPSK,BPSK) | | |
| Antenna Gain: -2.5dBi DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Sample Type: | Portable Device | | |
| Power Supply DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh Battery: Charge by DC 5V Model:PA-5V550mA-011 Input: AC100-240V 50/60Hz 150mA | Antenna Type: | PIFA | | |
| Battery: Charge by DC 5V Model:PA-5V550mA-011 AC adaptor: Input: AC100-240V 50/60Hz 150mA | Antenna Gain: | -2.5dBi | | |
| Model:PA-5V550mA-011 AC adaptor: Input: AC100-240V 50/60Hz 150mA | Dower Cupply | DC3.8V (1 x 3.8V Rechargeable battery) 2000mAh | | |
| AC adaptor: Input: AC100-240V 50/60Hz 150mA | Fower Supply | Battery: Charge by DC 5V | | |
| · | | Model:PA-5V550mA-011 | | |
| Output: DC5.0V 550mA | AC adaptor: | Input: AC100-240V 50/60Hz 150mA | | |
| | | Output: DC5.0V 550mA | | |



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| Operation Frequency each of channel(802.11b/g/n HT20) | | | | | | | | | | |
|---|---------------------|-----------|-----------|------------------|---------|-----|---------|------|---------|-----------|
| Channel | Fre | equency | Channe | I Frequency | Channel | Fre | quency | Char | nnel | Frequency |
| 1 | 24 | 112MHz | 4 | 2427MHz | 7 | 244 | 42MHz | 10 |) | 2457MHz |
| 2 | 24 | 117MHz | 5 | 2432MHz | 8 | 244 | 47MHz | 11 | 1 | 2462MHz |
| 3 | 24 | 122MHz | 6 | 2437MHz | 9 | 24 | 2452MHz | | | |
| Operation F | requ | ency each | of channe | el(802.11n HT40) | | | | | | |
| Channel Frequency | | | | Channel | Frequen | су | Chan | nel | | requency |
| 3 2422MHz | | MHz | 6 | 2437MHz | | 9 | 9 | | 2452MHz | |
| 4 | 4 2427MHz 7 2442MHz | | lz | | | | | | | |
| 5 | | 2432 | MHz | 8 | 2447MH | lz | | | | |

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 |

For 802.11n (HT40):

| | / | | | |
|---------------------|-----------|--|--|--|
| Channel | Frequency | | | |
| The Lowest channel | 2422MHz | | | |
| The Middle channel | 2437MHz | | | |
| The Highest channel | 2452MHz | | | |



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5.3 Test Environment and Mode

| Operating Environment: | | | | |
|------------------------|--|--|--|--|
| Temperature: | 25.0 °C | | | |
| Humidity: | 50 % RH | | | |
| Atmospheric Pressure: | 1010 mbar | | | |
| Test mode: | | | | |
| Transmitting mode: | Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate. | | | |

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 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.

5.6 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 -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

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.



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5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty | | |
|-----|---------------------------------|-------------------------|--|--|
| 1 | Total RF power, conducted | 0.75dB | | |
| 2 | RF power density, conducted | 2.84dB | | |
| 3 | Spurious emissions, conducted | 0.75dB | | |
| | | 4.5dB (30MHz-1GHz) | | |
| 4 | Radiated Spurious emission test | 4.8dB (1GHz-25GHz) | | |
| 5 | Conduct emission test | 3.12 dB(9KHz- 30MHz) | | |
| 6 | Temperature test | 1°C | | |
| 7 | Humidity test | 3% | | |
| 8 | DC and low frequency voltages | 0.5% | | |



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5.11 Equipment List

| | Conducted Emission | | | | | | | | |
|------|--------------------|--|-------------------------|-----------|---------------------------|-----------------------------|--|--|--|
| Item | Test Equipment | Manufacturer | | | Cal. date (yyyy-mm-dd) | Cal.Duedate (yyyy-mm-dd) | | | |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2017-05-10 | 2018-05-10 | | | |
| 2 | LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2017-10-09 | 2018-10-09 | | | |
| 3 | LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2017-04-14 | 2018-04-14 | | | |
| 4 | 8 Line ISN | Fischer Custom Communications Inc. | FCC- TLISN-T8- 02 | EMC0120 | 2017-09-28 | 2018-09-28 | | | |
| 5 | 4 Line ISN | Fischer Custom Communications Inc. | FCC- TLISN-T4- 02 | EMC0121 | 2017-09-28 | 2018-09-28 | | | |
| 6 | 2 Line ISN | Fischer Custom Communications Inc. | FCC- TLISN-T2- 02 | EMC0122 | 2017-09-28 | 2018-09-28 | | | |
| 7 | EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2017-04-14 | 2018-04-14 | | | |
| 8 | DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-10-09 | 2018-10-09 | | | |

| | RF connected test | | | | | | | |
|------|-------------------|-------------------------|-----------|---------------|---------------------------|-----------------------------|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy-mm-dd) | Cal.Duedate (yyyy-mm-dd) | | |
| 1 | DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2017-10-09 | 2018-10-09 | | |
| 2 | Signal Analyzer | Rohde &Schwarz | FSV | W005-02 | 2017-03-06 | 2018-03-06 | | |
| 3 | Signal Generator | Rohde &Schwarz | SML03 | SEM006-02 | 2017-04-14 | 2018-04-14 | | |
| 4 | Power Meter | Rohde &Schwarz | NRVS | SEM014-02 | 2017-10-09 | 2018-10-09 | | |
| 5 | Power Sensor | Agilent Technologies | U2021XA | SEM009-01 | 2017-10-09 | 2018-10-09 | | |



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| | RE in Chamber | | | | | | |
|------|-----------------------------------|-------------------------|-----------|---------------|---------------------------|---------------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy-mm-dd) | Cal.Due date (yyyy-mm-dd) | |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2017-05-10 | 2018-05-10 | |
| 2 | EMI Test Receiver | Agilent Technologies | N9038A | SEM004-05 | 2017-10-09 | 2018-10-09 | |
| 3 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2017-11-01 | 2020-11-01 | |
| 4 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEM003-11 | 2015-10-17 | 2018-10-17 | |
| 5 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEM003-12 | 2017-11-24 | 2020-11-24 | |
| 6 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2017-04-14 | 2018-04-14 | |
| 7 | Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A | |
| 8 | DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-10-09 | 2018-10-09 | |
| 9 | Loop Antenna | Beijing Daze | ZN30401 | SEM003-09 | 2015-05-13 | 2018-05-13 | |

| | RE in Chamber | | | | | | | |
|------|---------------------------------------|-------------------------|-----------|---------------|------------------------|----------------------------|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) | | |
| 1 | 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2017-05-10 | 2018-05-10 | | |
| 2 | EMI Test Receiver (9k-7GHz) | Rohde & Schwarz | ESR | SEM004-03 | 2017-04-14 | 2018-04-14 | | |
| 3 | Trilog-Broadband Antenna(30M-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2016-06-29 | 2019-06-29 | | |
| 4 | Pre-amplifier | Sonoma Instrument Co | 310N | SEM005-03 | 2017-07-06 | 2018-07-06 | | |
| 5 | .Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2015-08-14 | 2018-08-14 | | |



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| | RE in Chamber | | | | | | | |
|------|-----------------------------------|--------------------------|---------------------------|------------------|---------------------------|---------------------------|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy-mm-dd) | Cal.Due date (yyyy-mm-dd) | | |
| 1 | 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2017-05-10 | 2018-05-10 | | |
| 2 | EXA Spectrum Analyzer | Agilent Technologies Inc | N9010A | SEM004-09 | 2017-07-19 | 2018-07-19 | | |
| 3 | BiConiLog Antenna (26-3000MHz) | ETS-Lindgren | 3142C | SEM003-02 | 2017-11-15 | 2020-11-15 | | |
| 4 | Amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2017-10-09 | 2018-10-09 | | |
| 5 | Horn Antenna (1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2015-06-14 | 2018-06-14 | | |
| 6 | Horn Antenna (18-26GHz) | ETS-Lindgren | 3160 | SEM003-12 | 2017-11-24 | 2020-11-24 | | |
| 7 | HornAntenna (26GHz-40GHz) | A.H.Systems, inc. | SAS-573 | SEM003-13 | 2015-02-12 | 2018-02-12 | | |
| 8 | Low Noise Amplifier | Black Diamond Series | BDLNA- 0118- 352810 | SEM005-05 | 2017-10-09 | 2018-10-09 | | |
| 9 | Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A | | |



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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.5dBi.



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6.2 Conducted Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.207 | | | | | |
|-----------------------|--|-------------------|--|--|--|--|
| Test Method: | ANSI C63.10: 2013 | ANSI C63.10: 2013 | | | | |
| Test Frequency Range: | 150kHz to 30MHz | 150kHz to 30MHz | | | | |
| | Frequency range (MHz) Quasi-peak | Average | | | | |
| | 0.15-0.5 66 to 56* | 56 to 46* | | | | |
| Limit: | 0.5-5 56 | 46 | | | | |
| | 5-30 60 | 50 | | | | |
| | | | | | | |
| Test Procedure: | * Decreases with the logarithm of the frequency. The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to | | | | | |
| Test Setup: | Shielding Room EUT AE LISN2 AC YELL Ground Reference Plane | Test Receiver | | | | |

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| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode. | | |
|------------------------|---|--|--|
| | Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the | | |
| Final Test Mode: | worst case. | | |
| | Charge + Transmitting mode. | | |
| | Only the worst case is recorded in the report. | | |
| Instruments Used: | Refer to section 5.10 for details | | |
| Test Results: | Pass | | |



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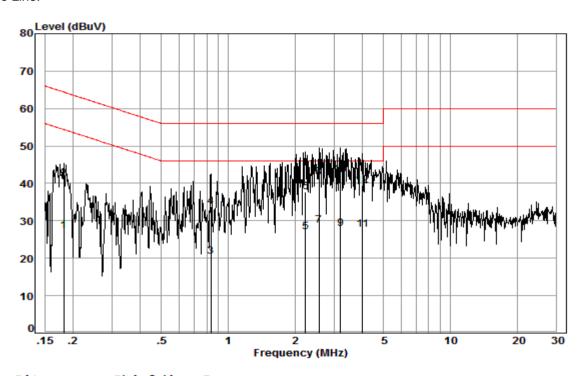
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room

Condition: Line Job No. : 00719RG

Test mode: d

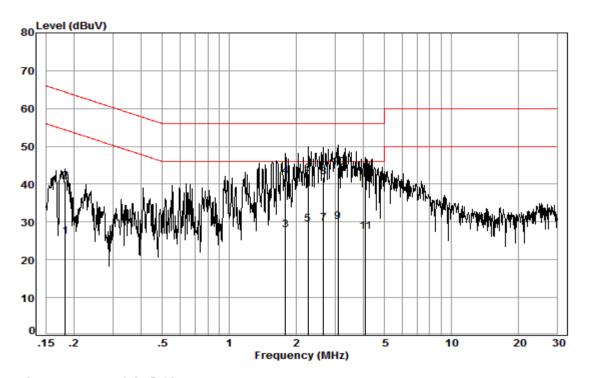
| | | Cable | LISN | Read | | Limit | 0ver | |
|----|------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.18 | 0.02 | 9.51 | 17.76 | 27.29 | 54.42 | -27.13 | Average |
| 2 | 0.18 | 0.02 | 9.51 | 31.76 | 41.29 | 64.42 | -23.13 | QP |
| 3 | 0.83 | 0.02 | 9.50 | 10.98 | 20.50 | 46.00 | -25.50 | Average |
| 4 | 0.83 | 0.02 | 9.50 | 24.35 | 33.87 | 56.00 | -22.13 | QP |
| 5 | 2.22 | 0.02 | 9.51 | 17.41 | 26.94 | 46.00 | -19.06 | Average |
| 6 | 2.22 | 0.02 | 9.51 | 28.11 | 37.64 | 56.00 | -18.36 | QP |
| 7 | 2.57 | 0.02 | 9.52 | 19.14 | 28.68 | 46.00 | -17.32 | Average |
| 8 | 2.57 | 0.02 | 9.52 | 32.06 | 41.60 | 56.00 | -14.40 | QP |
| 9 | 3.21 | 0.02 | 9.55 | 18.30 | 27.87 | 46.00 | -18.13 | Average |
| 10 | 3.21 | 0.02 | 9.55 | 32.79 | 42.36 | 56.00 | -13.64 | QP |
| 11 | 4.03 | 0.01 | 9.54 | 18.09 | 27.64 | 46.00 | -18.36 | Average |
| 12 | 4.03 | 0.01 | 9.54 | 29.94 | 39.49 | 56.00 | -16.51 | QP |



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Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 00719RG

Test mode: d

| est | moue. u | | | | | | | |
|------------|---------|-------|--------|-------|-------|-------|--------|---------|
| | | Cable | LISN | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | |
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| | | | | | | | | |
| 1 | 0.18 | 0.02 | 9.58 | 16.50 | 26.10 | 54.37 | -28.27 | Average |
| 2 | 0.18 | 0.02 | 9.58 | 31.06 | 40.66 | 64.37 | -23.71 | QP |
| 3 | 1.79 | 0.02 | 9.64 | 18.14 | 27.80 | 46.00 | -18.20 | Average |
| 4 | 1.79 | 0.02 | 9.64 | 32.32 | 41.98 | 56.00 | -14.02 | QP |
| 5 | 2.26 | 0.02 | 9.64 | 19.80 | 29.46 | 46.00 | -16.54 | Average |
| 6 | 2.26 | 0.02 | 9.64 | 33.04 | 42.70 | 56.00 | -13.30 | QP |
| 7 | 2.66 | 0.02 | 9.64 | 19.99 | 29.65 | 46.00 | -16.35 | Average |
| 8 | 2.66 | 0.02 | 9.64 | 32.09 | 41.75 | 56.00 | -14.25 | QP |
| 9 | 3.09 | 0.02 | 9.65 | 20.38 | 30.05 | 46.00 | -15.95 | Average |
| 10 | 3.09 | 0.02 | 9.65 | 34.79 | 44.46 | 56.00 | -11.54 | QP |
| 11 | 4.11 | 0.01 | 9.67 | 17.77 | 27.45 | 46.00 | -18.55 | Average |
| 12 | 4.11 | 0.01 | 9.67 | 31.12 | 40.80 | 56.00 | -15.20 | QP |

Notes:

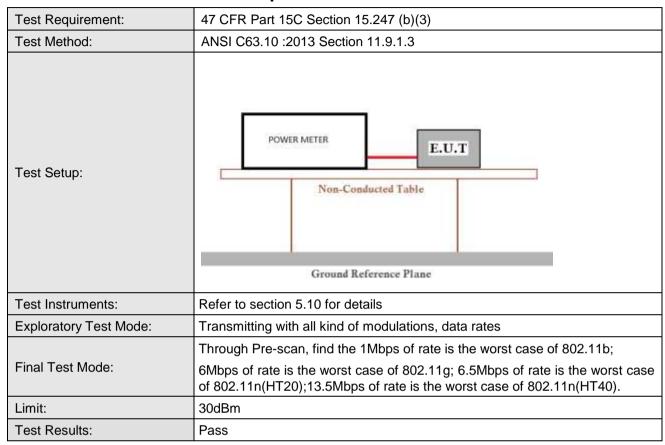
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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6.3 Conducted Peak Output Power





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Measurement Data

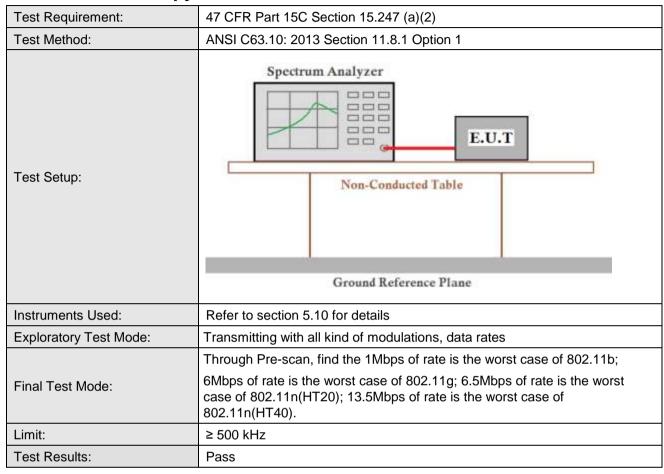
| Measurement Data | | | | | | |
|------------------|-------------------------|-------------|--------|--|--|--|
| | 802.11b mode | | | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | |
| Lowest | 20.59 | 30.00 | Pass | | | |
| Middle | 21.09 | 30.00 | Pass | | | |
| Highest | 20.74 | 30.00 | Pass | | | |
| | 802.11g mo | de | | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | |
| Lowest | 22.01 | 30.00 | Pass | | | |
| Middle | 22.36 | 30.00 | Pass | | | |
| Highest | 22.34 | 30.00 | Pass | | | |
| | 802.11n(HT20) | mode | | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | |
| Lowest | 21.09 | 30.00 | Pass | | | |
| Middle | 21.39 | 30.00 | Pass | | | |
| Highest | 21.39 | 30.00 | Pass | | | |
| | 802.11n(HT40) mode | | | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | |
| Lowest | 21.38 | 30.00 | Pass | | | |
| Middle | 21.72 | 30.00 | Pass | | | |
| Highest | 21.51 | 30.00 | Pass | | | |



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6.4 6dB Occupy Bandwidth





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Measurement Data

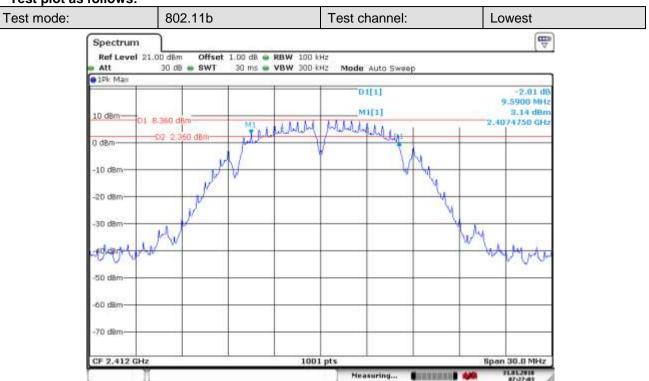
| Measurement Data | leasurement Data | | | | | |
|------------------|--|-------------|--------|--|--|--|
| | 802.11b mode | | | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) Limit (kHz) | | Result | | | |
| Lowest | 9.59 | ≥500 | Pass | | | |
| Middle | 9.11 | ≥500 | Pass | | | |
| Highest | 9.56 | ≥500 | Pass | | | |
| | 802.11g mode | | | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result | | | |
| Lowest | 15.70 | ≥500 | Pass | | | |
| Middle | 15.41 | ≥500 | Pass | | | |
| Highest | 15.11 | ≥500 | Pass | | | |
| | 802.11n(HT20) mode | | | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result | | | |
| Lowest | 16.33 | ≥500 | Pass | | | |
| Middle | 15.17 | ≥500 | Pass | | | |
| Highest | 15.94 | ≥500 | Pass | | | |
| | 802.11n(HT40) mode | | | | | |
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result | | | |
| Lowest | 35.49 | ≥500 | Pass | | | |
| Middle | 33.93 | ≥500 | Pass | | | |
| Highest | 35.19 | ≥500 | Pass | | | |



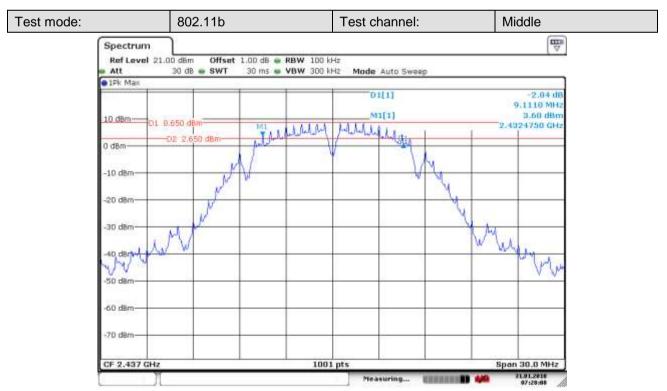
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Test plot as follows:



Date: 31 JAN 2018 07:27:03

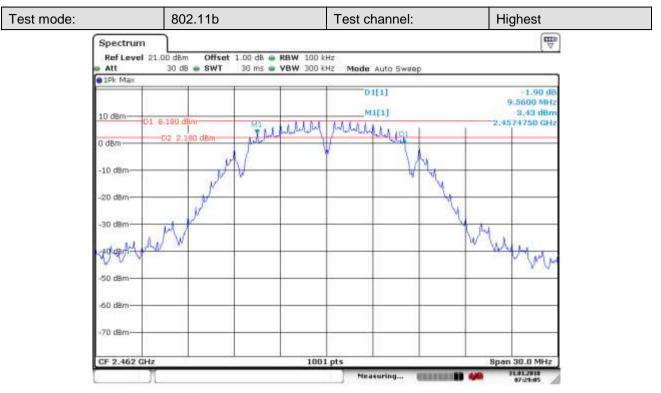


Date: 31 JAN 2018 07:28:09

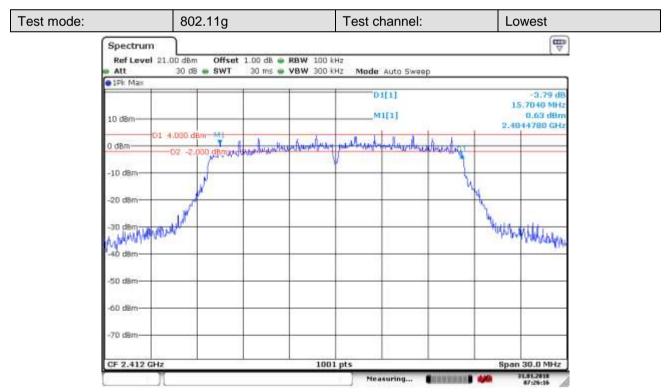


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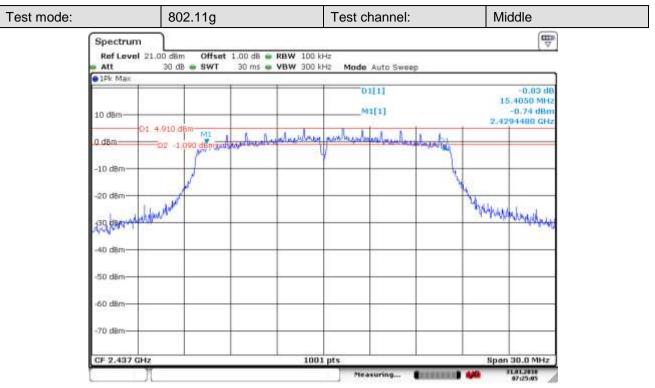


Date: 31 JAN 2018 07:26:16

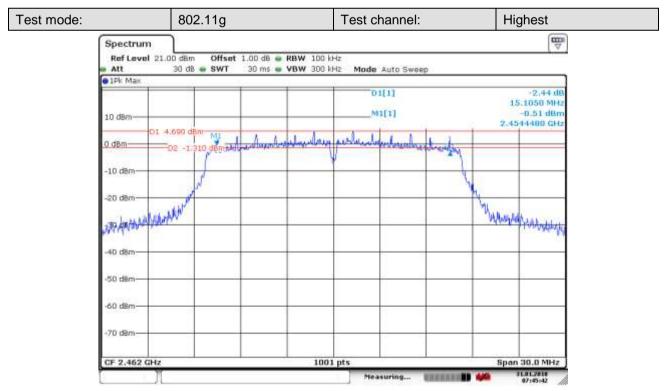


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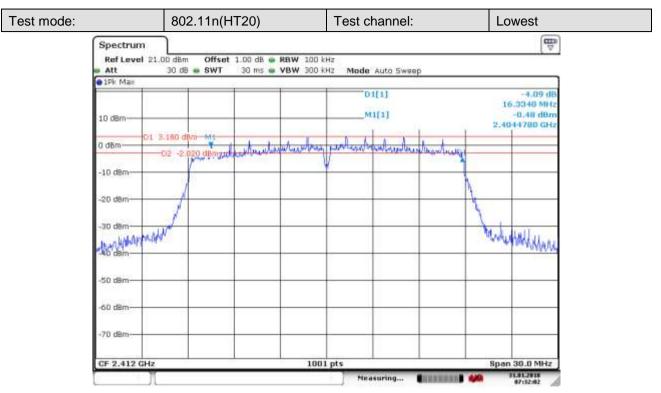


Date: 31 JAN 2018 07:45:42

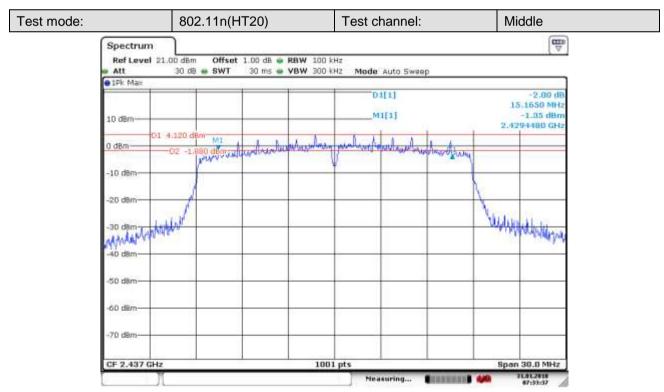


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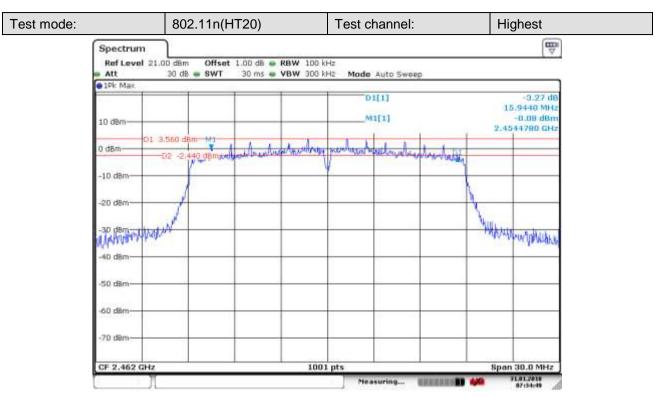


Date: 31 JAN 2018 07:33:37

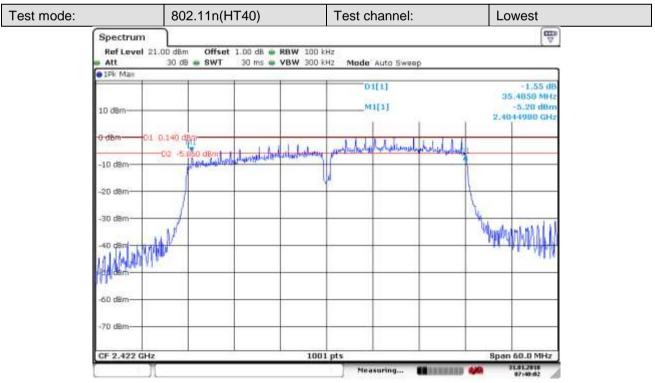


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Date: 31 JAN 2018 07:34:49

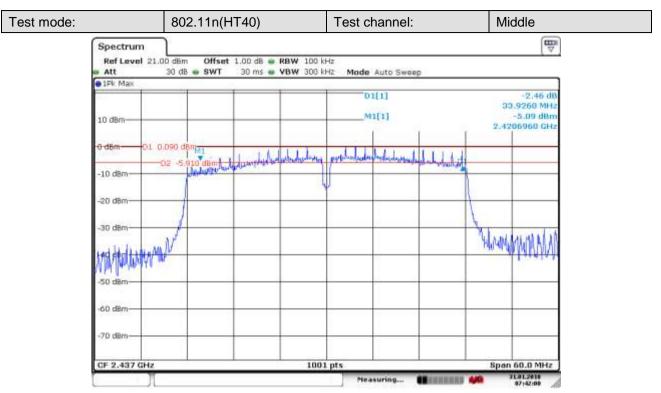


Date: 31 JAN 2018 07:40:03

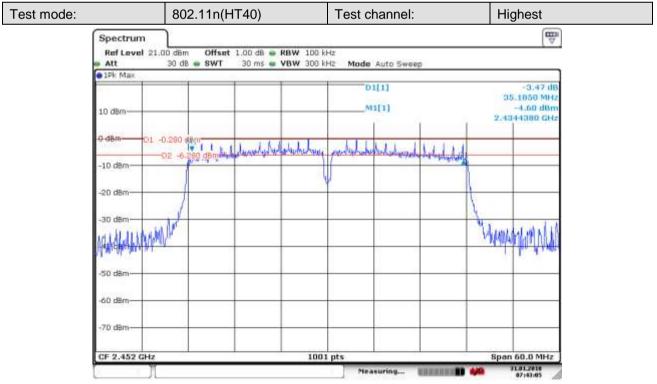


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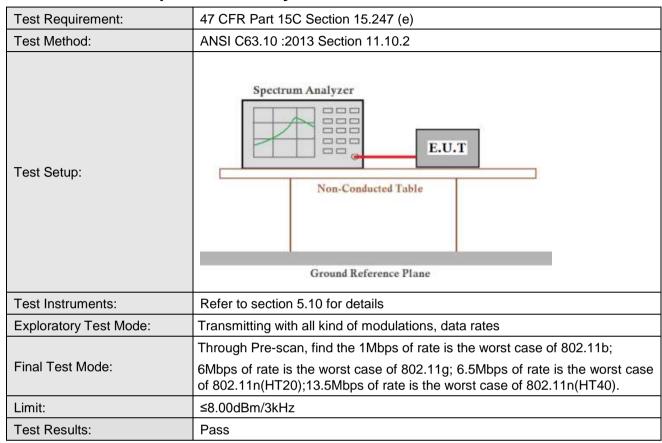
Date: 31 JAN 2018 07:43:05



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6.5 Power Spectral Density





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Measurement Data

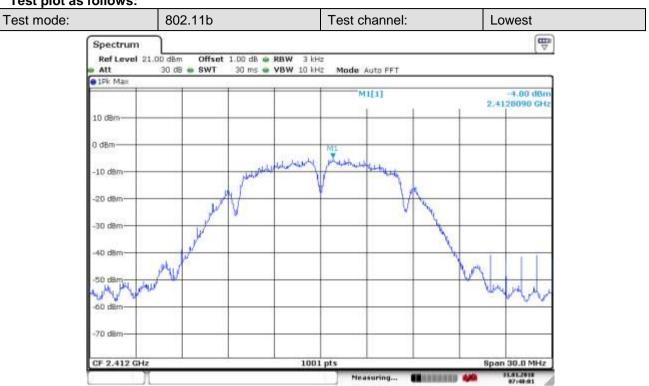
| Weasurement Data | | | | | | |
|------------------|-----------------------------------|------------------|--------|--|--|--|
| | 802.11b mode | | | | | |
| Test channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result | | | |
| Lowest | -4.80 | ≤8.00 | Pass | | | |
| Middle | -3.87 | ≤8.00 | Pass | | | |
| Highest | -5.46 | ≤8.00 | Pass | | | |
| | 802.11g mode | | | | | |
| Test channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result | | | |
| Lowest | -8.32 | ≤8.00 | Pass | | | |
| Middle | -7.63 | ≤8.00 | Pass | | | |
| Highest | -7.95 | ≤8.00 | Pass | | | |
| | 802.11n(HT20) mode | | | | | |
| Test channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result | | | |
| Lowest | -9.61 | ≤8.00 | Pass | | | |
| Middle | -9.13 | ≤8.00 | Pass | | | |
| Highest | -9.36 | ≤8.00 | Pass | | | |
| | 802.11n(HT40) mode | | | | | |
| Test channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result | | | |
| Lowest | -13.04 | ≤8.00 | Pass | | | |
| Middle | -13.53 | ≤8.00 | Pass | | | |
| Highest | -13.98 | ≤8.00 | Pass | | | |



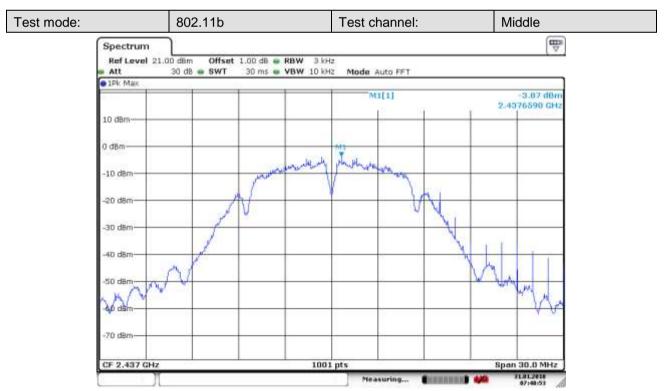
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Test plot as follows:



Date: 31 JAN 2018 07:48:01

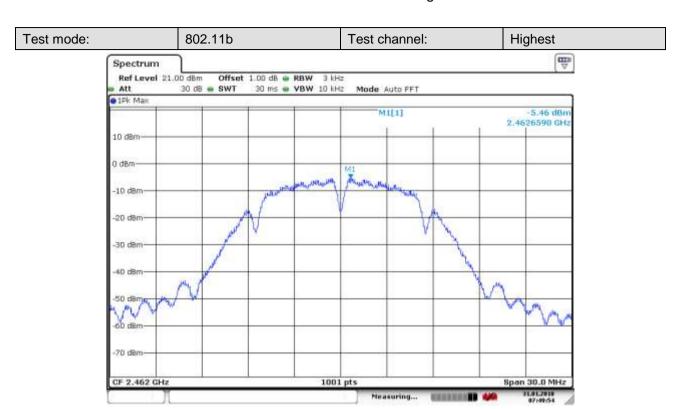


Date: 31 JAN 2018 07:48:53

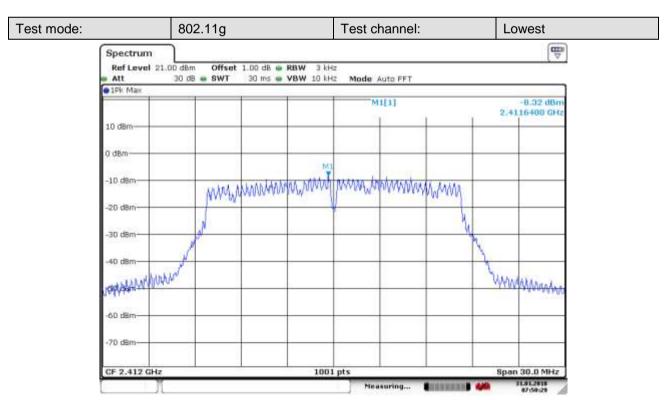


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Date: 31 JAN 2018 07:49:55

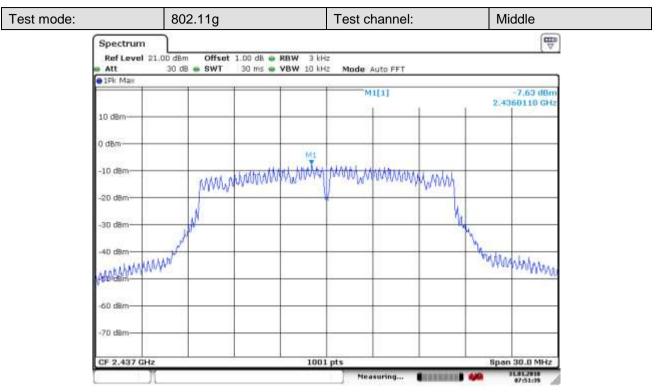


Date: 31 JAN 2018 07:50:29

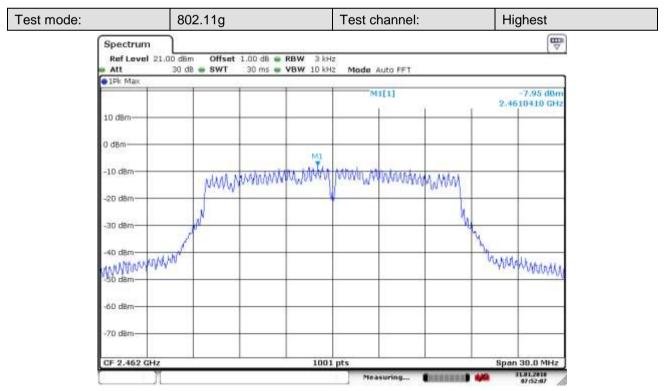


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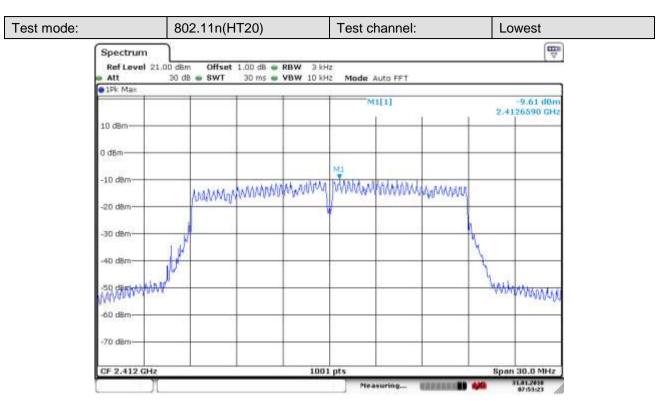


Date: 31 JAN 2018 07:52:08

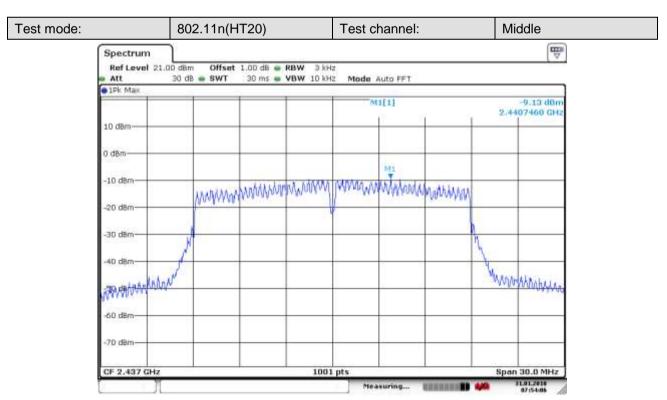


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Date: 31 JAN 2018 07:53:24

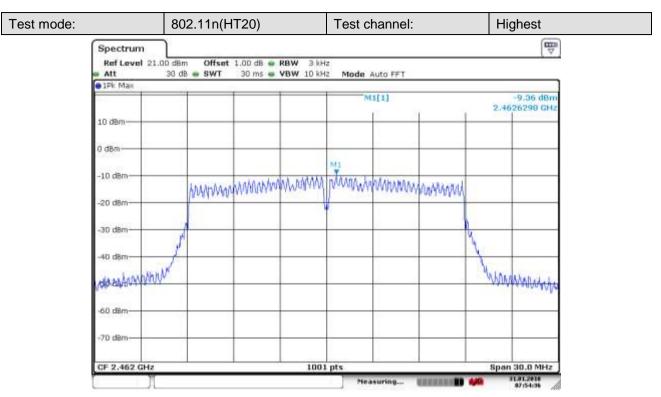


Date: 31 JAN 2018 07:54:06

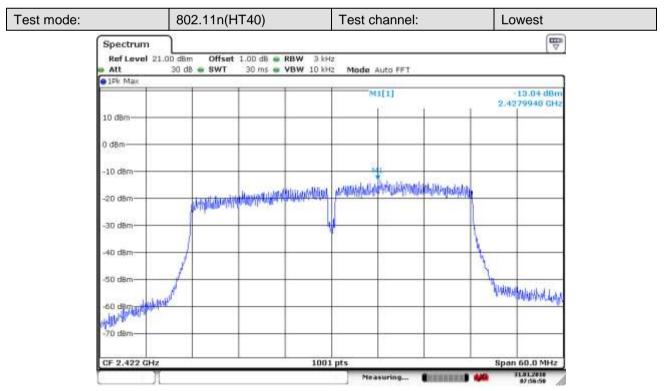


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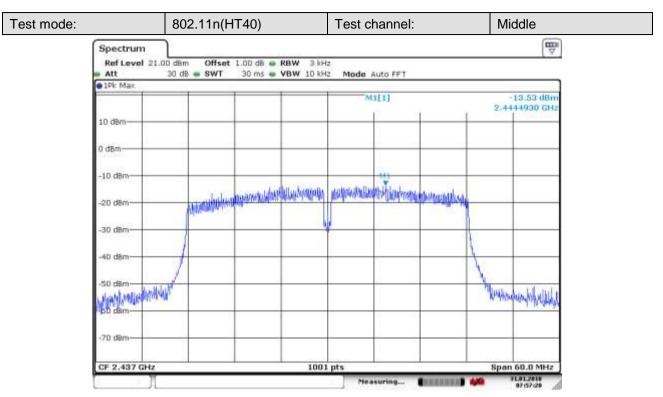


Date: 31 JAN 2018 07:56:51

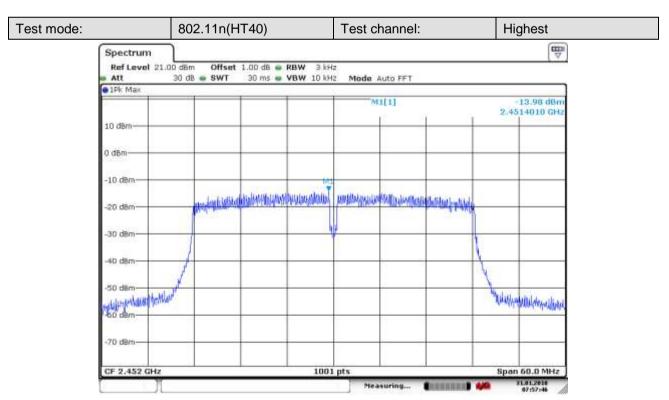


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Date: 31 JAN 2018 07:57:20



Date: 31 JAN 2018 07:57:47



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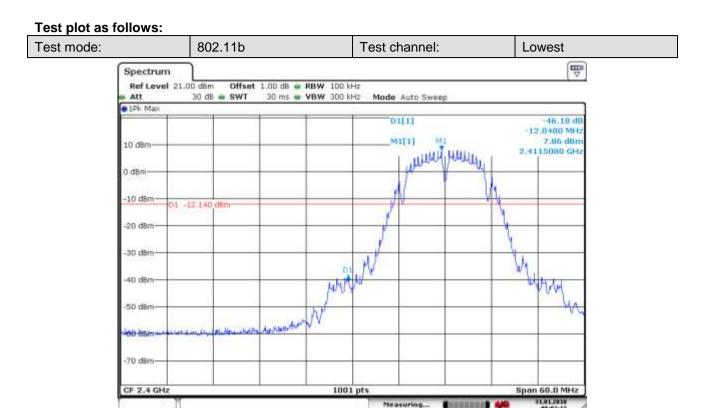
6.6 Band-edge for RF Conducted Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) | | | |
|------------------------|---|--|--|--|
| Test Method: | ANSI C63.10: 2013 Section 11.13 | | | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates | | | |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). | | | |
| 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. | | | |
| Instruments Used: | Refer to section 5.10 for details | | | |
| Test Results: | Pass | | | |

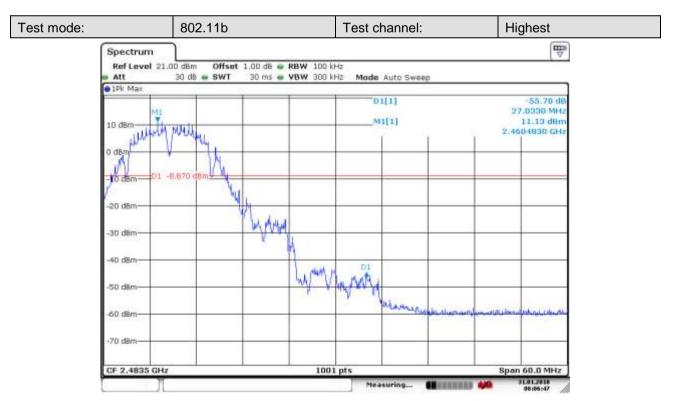


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Date: 31 JAN 2018 08:02:12

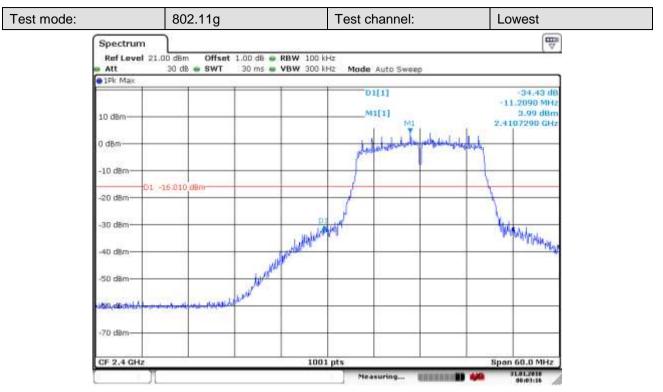


Date: 31,JAN 2018 08:06:48

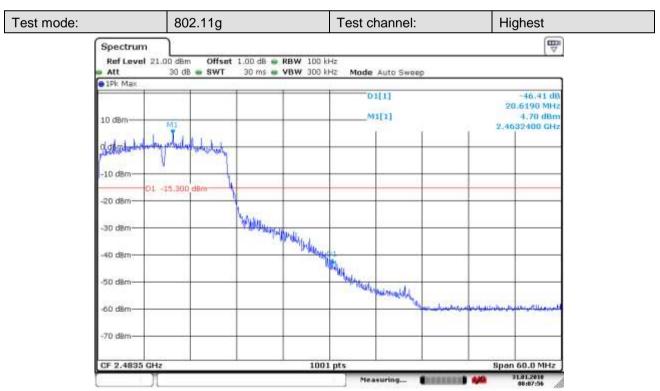


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Date: 31,JAN 2018 08:03:16

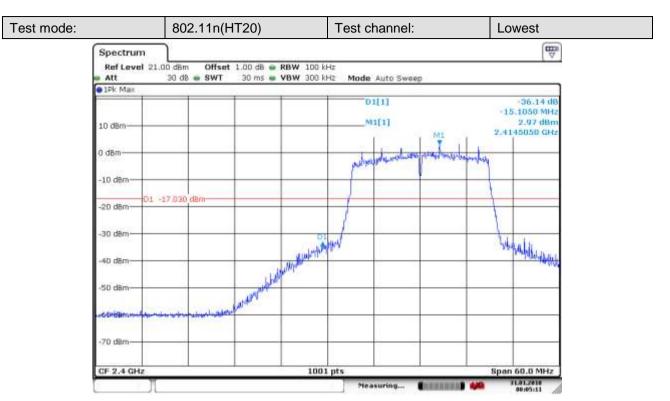


Date: 31 JAN 2018 08:07-56

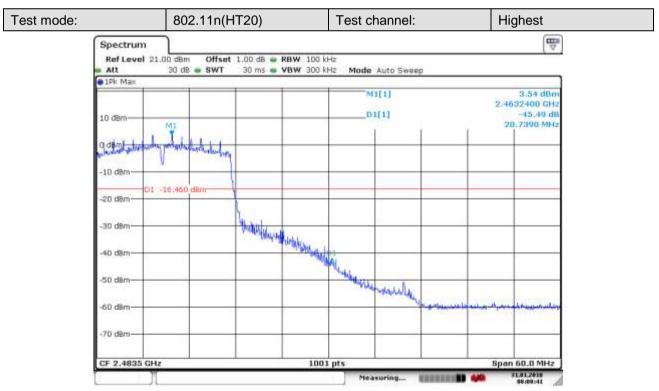


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Date: 31 JAN 2018 08:05:12

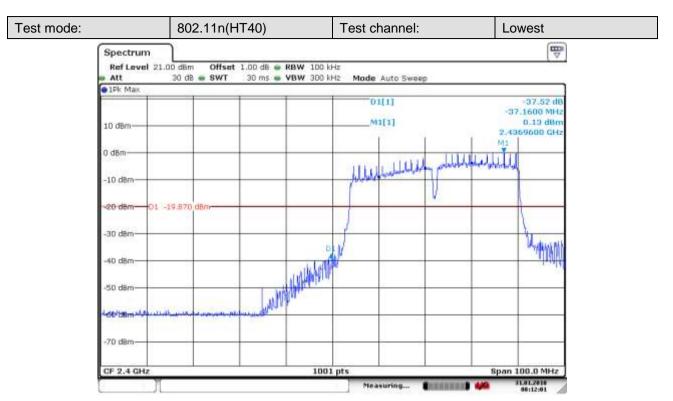


Date: 31 JAN 2018 08:08:42

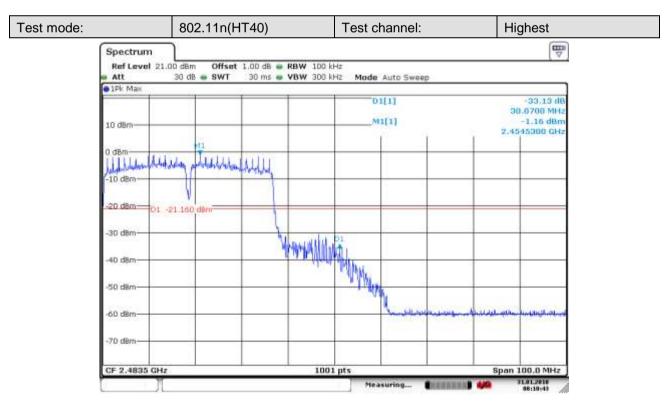


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Date: 31 JAN 2018 08:12:01



Date: 31 JAN 2018 08:10:43



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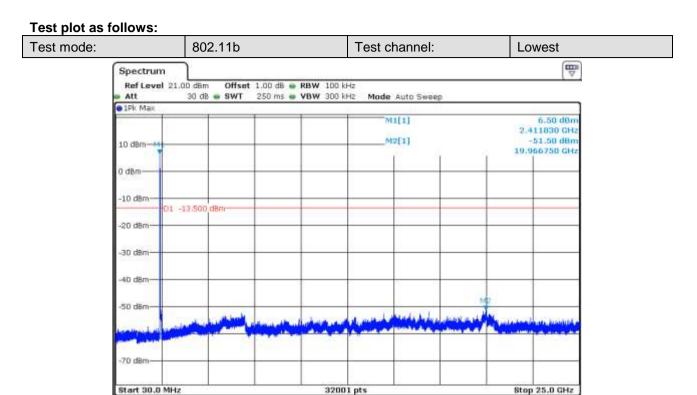
6.7 RF Conducted Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
|------------------------|---|
| Test Method: | ANSI C63.10: 2013 Section 11.11 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates |
| Final Test Mode: | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). |
| 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. |
| Instruments Used: | Refer to section 5.10 for details |
| Test Results: | Pass |

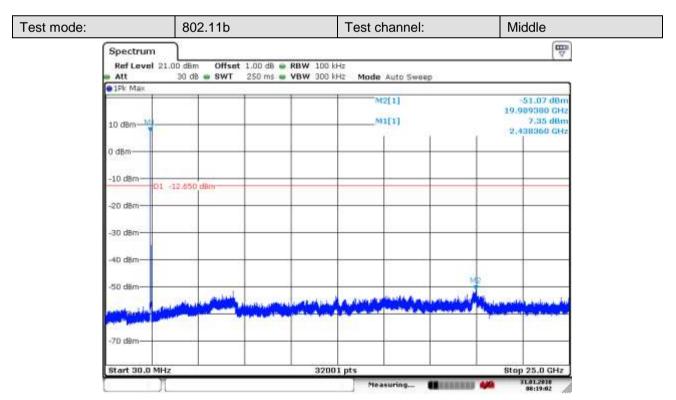


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Date: 31 JAN 2018 08:18:01

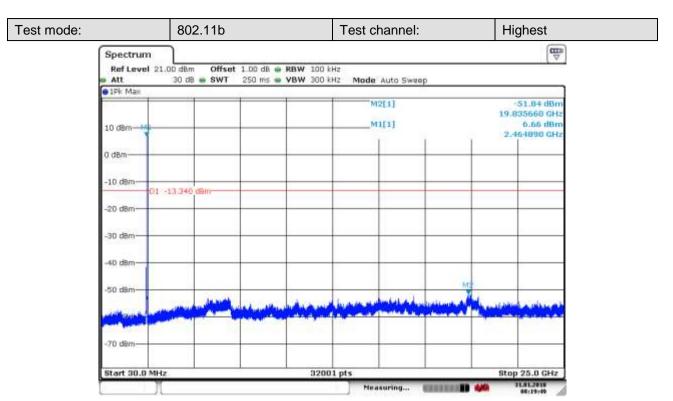


Date: 31,JAN 2018 08:19:02

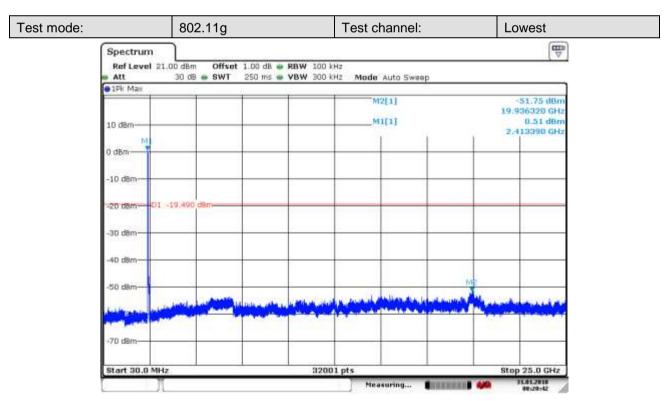


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Date: 31 JAN 2018 08:19:50

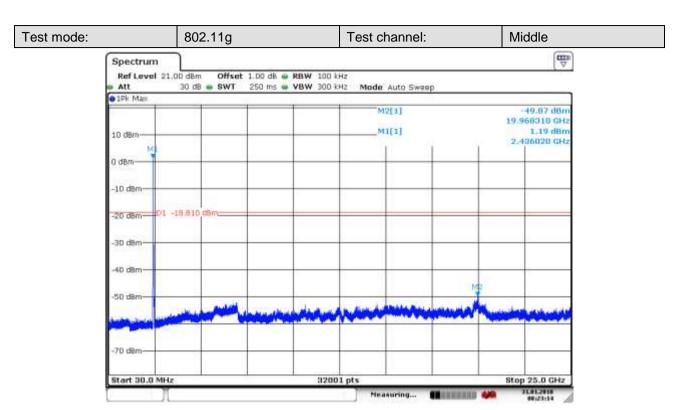


Date: 31 JAN 2018 08:20:42

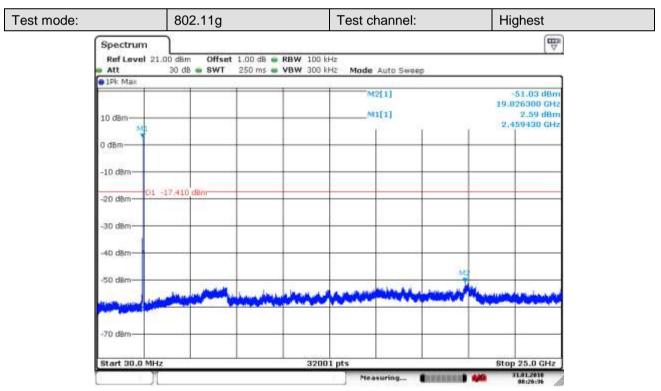


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Date: 31 JAN 2018 08:23:14

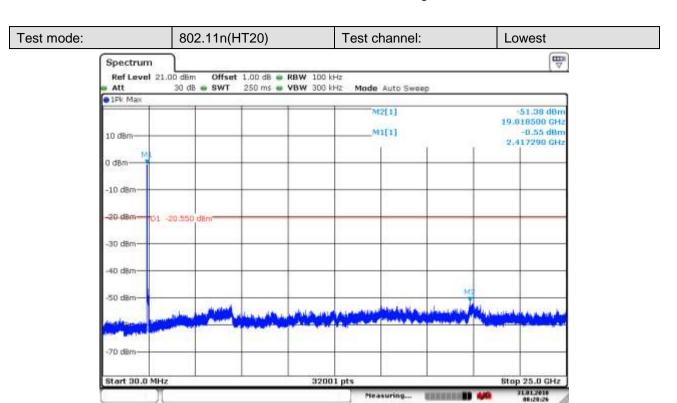


Date: 31 JAN 2018 08:26:36

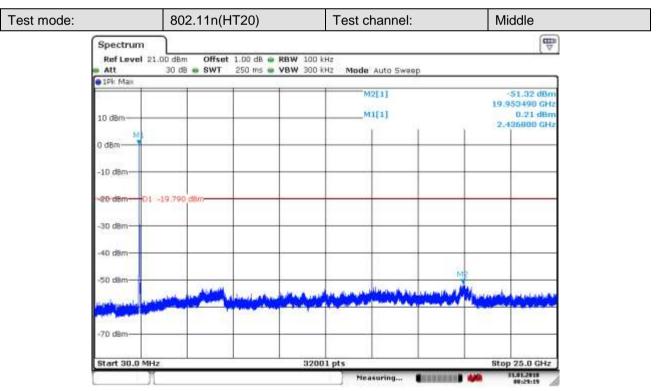


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Date: 31 JAN 2018 08:28:27

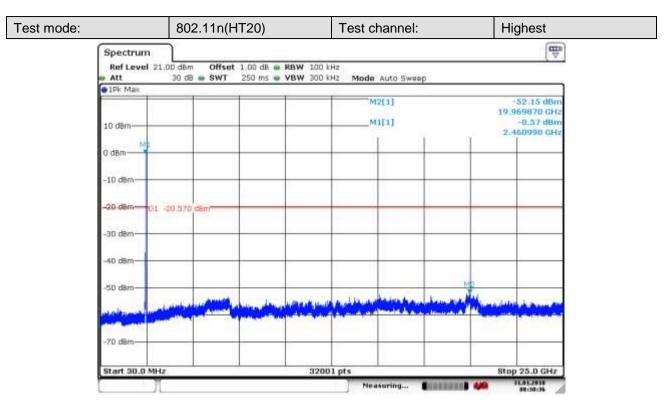


Date: 31 JAN 2018 08:29:20

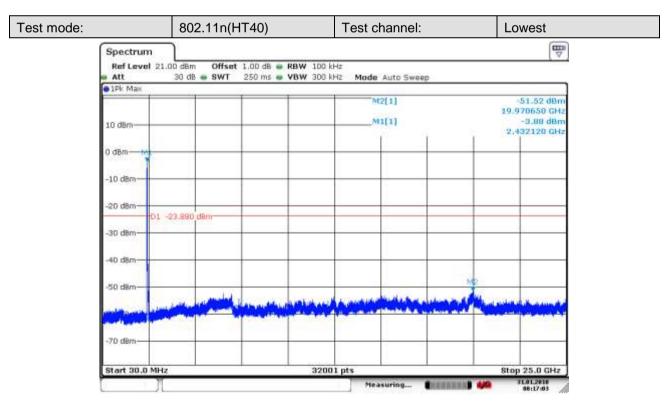


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Date: 31 JAN 2018 08:30:36

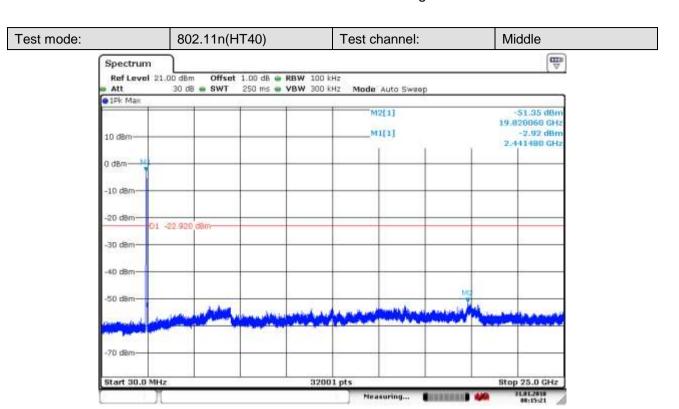


Date: 31 JAN 2018 08:17:03

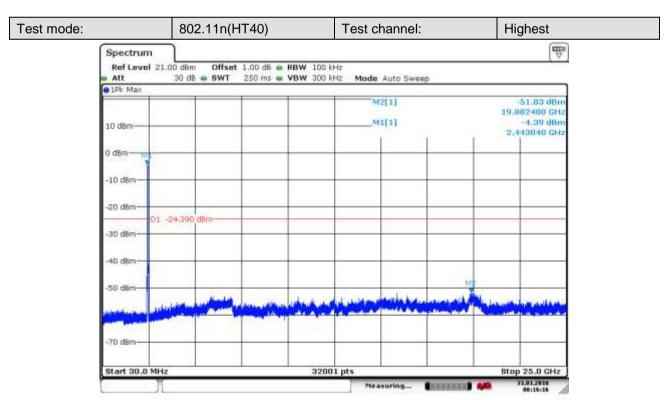


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Date: 31 JAN 2018 08:15:21



Date: 31 JAN 2018 08:16:17



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Remark:

Scan from 9kHz to 25GHz, the disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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6.8 Radiated Spurious Emissions

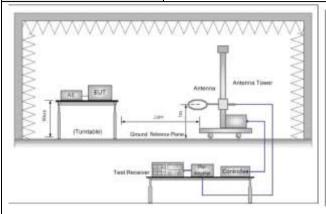
| Test Requirement: | 47 CFR Part 15C Section | n 15.209 and 15.20 |)5 | | |
|-------------------|--------------------------|----------------------|----------------|-----------------|--------------|
| Test Method: | ANSI C63.10 :2013 Sect | ion 11.12 | | | |
| Test Site: | Measurement Distance: | 3m or 10m (Semi-A | Anechoic Ch | amber) | |
| | | | | | |
| | Frequency | Detector | RBW | VBW | Remark |
| | 0.009MHz-0.090MHz | z Peak | 10kHz | 30kHz | Peak |
| | 0.009MHz-0.090MHz | z Average | 10kHz | 30kHz | Average |
| | 0.090MHz-0.110MHz | z Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| Receiver Setup: | 0.110MHz-0.490MHz | z Peak | 10kHz | 30kHz | Peak |
| | 0.110MHz-0.490MHz | z Average | 10kHz | 30kHz | Average |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 100 kHz | 300kHz | Quasi-peak |
| | Above 4011- | Peak | 1MHz | 3MHz | Peak |
| | Above 1GHz | Peak | 1MHz | 10Hz | Average |
| | | | | | |
| | Frequency | Field strength | Limit | Remark | Measurement |
| | Frequency | (microvolt/meter) | (dBuV/m) | Remark | distance (m) |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| | 1.705MHz-30MHz | 30 | - | • | 30 |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| Limit: | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| | Above 1GHz | 500 | 54.0 | Average | 3 |
| | Note: 15.35(b), Unless o | therwise specified, | the limit on p | eak radio fre | quency |
| | emissions is 20dB above | the maximum per | mitted avera | ge emission li | imit |
| | applicable to the equipm | ent under test. This | s peak limit a | pplies to the t | otal peak |
| | emission level rad | iated by the device. | | | |



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Test Setup:



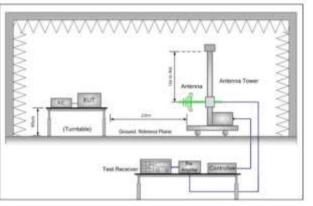


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

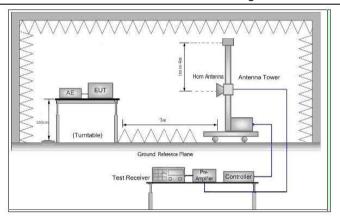


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. 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 semi-anechoic camber. 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

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| | 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 worse case. |
| | j. Repeat above procedures until all frequencies measured was complete. |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates. |
| | Charge + Transmitting mode. |
| Final Test Mode: | Pretest the EUT at Charge + Transmitting mode. |
| | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; |
| | 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case |
| | of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) |
| | For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 5.10 for details |
| Test Results: | Pass |



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6.8.1 Radiated emission below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

 D_3 : 3m distance. Unit: m D_{10} : 10m distance. Unit: m

The level at 3m test distance is below:

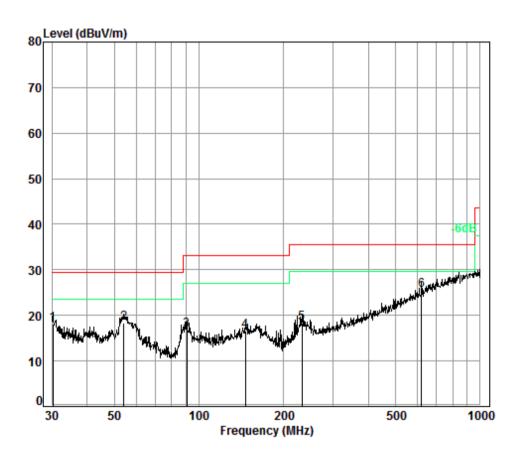
| Frequency (MHz) | Level @ 10m (dBuV/m) | Level @ 10m (uV/m) | Level @ 3m (uV/m) | Level @ 3m (dBuV/m) | Limit @ 3m (dBuV/m) | Over Limit (dB) | Ant. Polarization |
|--------------------|----------------------------|-----------------------|----------------------|------------------------|------------------------|--------------------|----------------------|
| 30.32 | 18.17 | 8.10 | 27.00 | 28.63 | 40.00 | -11.37 | V |
| 54.07 | 18.23 | 8.16 | 27.19 | 28.69 | 40.00 | -11.31 | V |
| 90.54 | 16.68 | 6.82 | 22.74 | 27.14 | 43.50 | -16.36 | V |
| 146.37 | 16.61 | 6.77 | 22.56 | 27.07 | 43.50 | -16.43 | V |
| 232.53 | 18.21 | 8.14 | 27.13 | 28.67 | 46.00 | -17.33 | V |
| 618.54 | 25.43 | 18.69 | 62.28 | 35.89 | 46.00 | -10.11 | V |
| 40.56 | 13.02 | 4.48 | 14.92 | 23.48 | 40.00 | -16.52 | Н |
| 56.79 | 13.50 | 4.73 | 15.77 | 23.96 | 40.00 | -16.04 | Н |
| 160.91 | 15.86 | 6.21 | 20.70 | 26.32 | 43.50 | -17.18 | Н |
| 549.02 | 21.79 | 12.29 | 40.96 | 32.25 | 46.00 | -13.75 | Н |
| 647.39 | 23.93 | 15.72 | 52.41 | 34.39 | 46.00 | -11.61 | Н |
| 887.61 | 26.50 | 21.13 | 70.45 | 36.96 | 46.00 | -9.04 | Н |



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| 30MHz~1GHz (QP) | | |
|-----------------|-----------------------|----------|
| Test mode: | Charge + Transmitting | Vertical |



Condition: 10m VERTICAL

Job No. : 00719RG Test Mode: WIFI

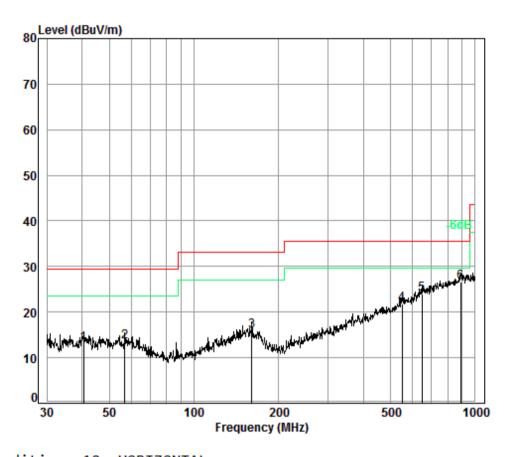
| | | | | Preamp | | | | 0ver |
|------|--------|------|--------|--------|-------|----------|----------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| _ | MHz | dB | | dB | | dBuV/m | dRuV/m | dB |
| | 11112 | ub | ub/iii | ub | abav | ubuv/iii | ubuv/III | ub. |
| 1 | 30.32 | 6.70 | 12.48 | 32.97 | 31.96 | 18.17 | 29.50 | -11.33 |
| 2 | 54.07 | 6.98 | 12.45 | 32.98 | 31.78 | 18.23 | 29.50 | -11.27 |
| 3 | 90.54 | 7.20 | 8.73 | 32.83 | 33.58 | 16.68 | 33.10 | -16.42 |
| 4 | 146.37 | 7.43 | 13.18 | 32.75 | 28.75 | 16.61 | 33.10 | -16.49 |
| 5 | 232.53 | 7.76 | 10.85 | 32.66 | 32.26 | 18.21 | 35.60 | -17.39 |
| 6 pp | 618.54 | 8.95 | 19.09 | 32.60 | 29.99 | 25.43 | 35.60 | -10.17 |



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Test mode: Charge + Transmitting Horizontal



Condition: 10m HORIZONTAL

Job No. : 00719RG Test Mode: WIFI

| | | Freq | | | Preamp Factor | | | | Over Limit |
|-----|----|--------|------|-------|------------------|-------|--------|--------|---------------|
| | _ | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | | 40.56 | 6.80 | 13.27 | 32.99 | 25.94 | 13.02 | 29.50 | -16.48 |
| 2 | | 56.79 | 7.00 | 12.24 | 32.96 | 27.22 | 13.50 | 29.50 | -16.00 |
| 3 | | 160.91 | 7.50 | 13.30 | 32.73 | 27.79 | 15.86 | 33.10 | -17.24 |
| 4 | | 549.02 | 8.77 | 17.71 | 32.60 | 27.91 | 21.79 | 35.60 | -13.81 |
| 5 | | 647.39 | 9.02 | 19.50 | 32.60 | 28.01 | 23.93 | 35.60 | -11.67 |
| 6 1 | рр | 887.61 | 9.50 | 22.06 | 32.51 | 27.45 | 26.50 | 35.60 | -9.10 |

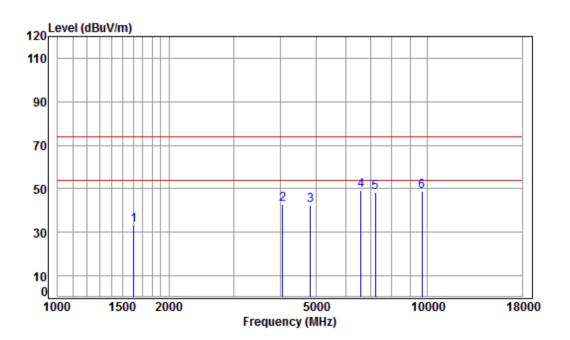


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6.8.2 Transmitter emission above 1GHz

| Test mode: | 802.11b | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------|---------|---------------|--------|---------|------|----------|
| | | | | | | |



Condition: 3m VERTICAL Job No : 00719RG

Mode : 2412 TX RSE

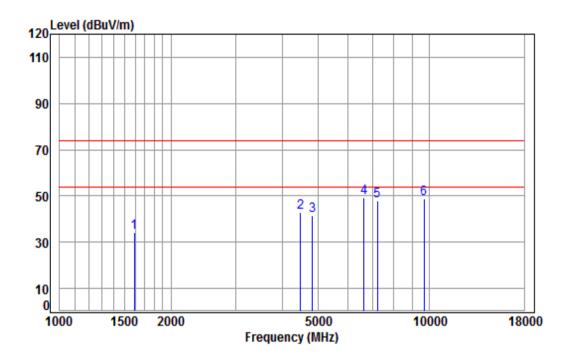
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1606.441 | 5.34 | 26.28 | 41.47 | 42.96 | 33.11 | 74.00 | -40.89 | peak |
| 2 | 4050.904 | 7.04 | 33.60 | 42.34 | 44.58 | 42.88 | 74.00 | -31.12 | peak |
| 3 | 4824.000 | 7.91 | 34.19 | 42.47 | 42.67 | 42.30 | 74.00 | -31.70 | peak |
| 4 pp | 6602.265 | 11.24 | 35.39 | 41.14 | 43.91 | 49.40 | 74.00 | -24.60 | peak |
| 5 | 7236.000 | 10.07 | 36.40 | 40.69 | 42.39 | 48.17 | 74.00 | -25.83 | peak |
| 6 | 9648.000 | 10.77 | 37.53 | 37.68 | 38.24 | 48.86 | 74.00 | -25.14 | peak |



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| lest mode: 802.11b lest channel: Lowest Remark: Peak Horizontal | Test mode: | 802.11b | Test channel: | Lowest | Remark: | Peak | Horizontal |
|---|------------|---------|---------------|--------|---------|------|------------|
|---|------------|---------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2412 TX RSE Note : 2.4G WIFI 11B

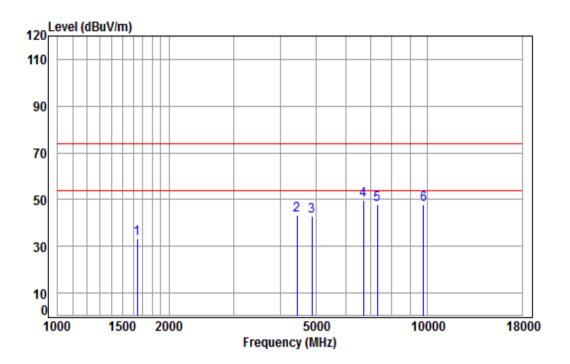
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1592.571 | 5.36 | 26.22 | 41.47 | 43.94 | 34.05 | 74.00 | -39.95 | peak |
| 2 | 4482.150 | 7.54 | 33.60 | 42.41 | 44.20 | 42.93 | 74.00 | -31.07 | peak |
| 3 | 4824.000 | 7.91 | 34.19 | 42.47 | 41.95 | 41.58 | 74.00 | -32.42 | peak |
| 4 pp | 6640.542 | 11.13 | 35.50 | 41.11 | 43.79 | 49.31 | 74.00 | -24.69 | peak |
| 5 | 7236.000 | 10.07 | 36.40 | 40.69 | 42.31 | 48.09 | 74.00 | -25.91 | peak |
| 6 | 9648.000 | 10.77 | 37.53 | 37.68 | 38.19 | 48.81 | 74.00 | -25.19 | peak |



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| Test mode: 802.11b Test channel: Middle Remark: Peak Vertical |
|---|
|---|



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11B

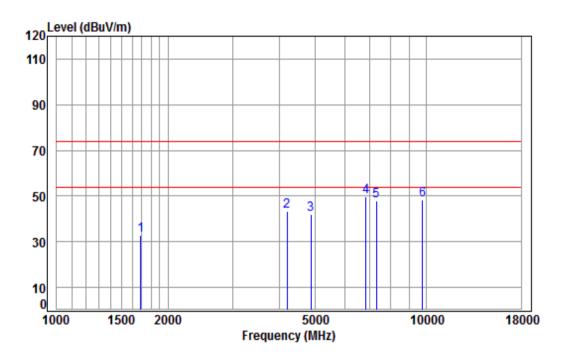
| Note | : 2.4 | G MTFT | 11B | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1644.019 | 5.30 | 26.44 | 41.50 | 43.02 | 33.26 | 74.00 | -40.74 | peak |
| 2 | 4443.453 | 7.50 | 33.60 | 42.41 | 44.66 | 43.35 | 74.00 | -30.65 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 43.18 | 42.94 | 74.00 | -31.06 | peak |
| 4 pp | 6717.762 | 10.91 | 35.72 | 41.05 | 43.97 | 49.55 | 74.00 | -24.45 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 42.03 | 47.81 | 74.00 | -26.19 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 37.26 | 48.09 | 74.00 | -25.91 | peak |



Report No.: SZEM180100071903

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| Test mode: | 802.11b | Test channel: | Middle | Remark: | Peak | Horizontal |
|------------|---------|---------------|--------|---------|------|------------|
| | | | | | | |



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2437 TX RSE

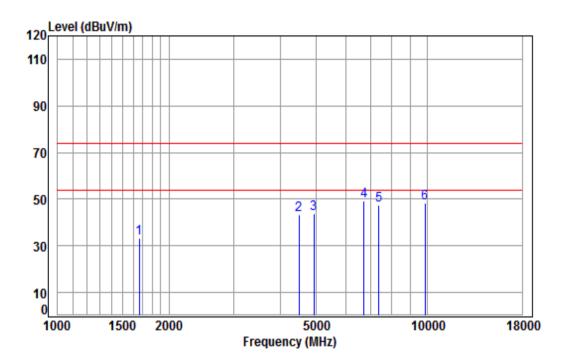
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1687.347 | 5.24 | 26.62 | 41.52 | 42.60 | 32.94 | 74.00 | -41.06 | peak |
| 2 | 4193.872 | 7.21 | 33.60 | 42.36 | 44.79 | 43.24 | 74.00 | -30.76 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 42.40 | 42.16 | 74.00 | -31.84 | peak |
| 4 pp | 6855.063 | 10.53 | 36.10 | 40.96 | 44.12 | 49.79 | 74.00 | -24.21 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 42.07 | 47.85 | 74.00 | -26.15 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 37.33 | 48.16 | 74.00 | -25.84 | peak |



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| Test mode: | 802.11b | Test channel: | Highest | Remark: | Peak | Vertical |
|------------|---------|---------------|---------|---------|------|----------|
| | | | | | | |



Condition: 3m VERTICAL

Job No : 00719RG

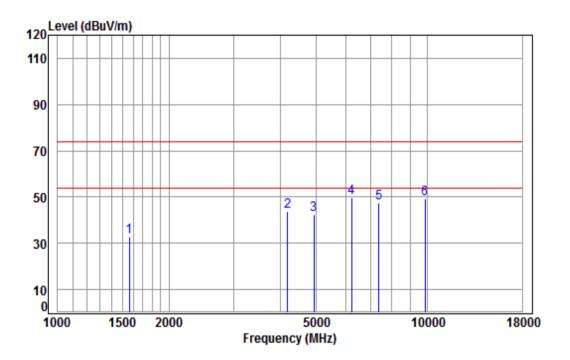
Mode : 2462 TX RSE Note : 2.4G WIFI 11B

| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|----------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | d Bu V/m | dB | |
| | | | | | | | | | |
| 1 | 1663.137 | 5.27 | 26.52 | 41.51 | 42.95 | 33.23 | 74.00 | -40.77 | peak |
| 2 | 4495.125 | 7.55 | 33.60 | 42.42 | 44.60 | 43.33 | 74.00 | -30.67 | peak |
| 3 | 4924.000 | 8.01 | 34.37 | 42.49 | 44.05 | 43.94 | 74.00 | -30.06 | peak |
| 4 pp | 6737.207 | 10.86 | 35.78 | 41.04 | 43.89 | 49.49 | 74.00 | -24.51 | peak |
| 5 | 7386.000 | 10.03 | 36.34 | 40.59 | 41.62 | 47.40 | 74.00 | -26.60 | peak |
| 6 | 9848.000 | 10.87 | 37.57 | 37.41 | 37.13 | 48.16 | 74.00 | -25.84 | peak |
| | | | | | | | | | |



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Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2462 TX RSE Note : 2.4G WIFI 11B

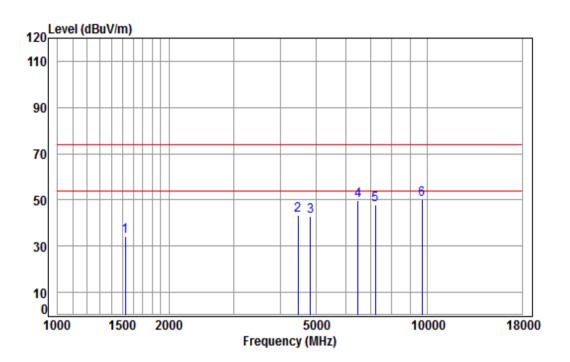
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1565.191 | 5.39 | 26.10 | 41.45 | 42.72 | 32.76 | 74.00 | -41.24 | peak |
| 2 | 4181.768 | 7.20 | 33.60 | 42.36 | 45.15 | 43.59 | 74.00 | -30.41 | peak |
| 3 | 4924.000 | 8.01 | 34.37 | 42.49 | 42.49 | 42.38 | 74.00 | -31.62 | peak |
| 4 pp | 6231.427 | 11.03 | 34.89 | 41.42 | 45.29 | 49.79 | 74.00 | -24.21 | peak |
| 5 | 7386.000 | 10.03 | 36.34 | 40.59 | 41.88 | 47.66 | 74.00 | -26.34 | peak |
| 6 | 9848.000 | 10.87 | 37.57 | 37.41 | 38.37 | 49.40 | 74.00 | -24.60 | peak |



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| Test mode: | 802.11g | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------|---------|---------------|--------|---------|------|----------|
|------------|---------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2412 TX RSE Note : 2.4G WIFI 11G

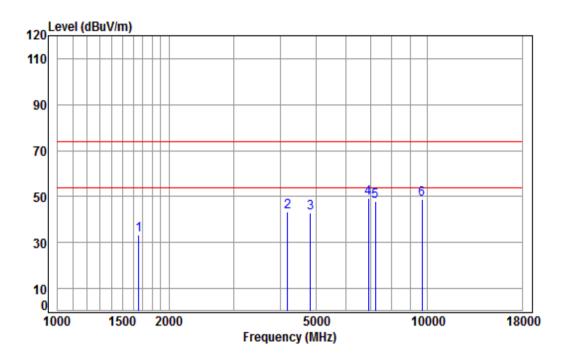
| . 2.7 | G WILL | 110 | | | | | | |
|----------|---|--|--|--|---|--|--|--|
| | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | |
| 1525.000 | 5.45 | 25.91 | 41.42 | 44.18 | 34.12 | 74.00 | -39.88 | peak |
| 4469.214 | 7.53 | 33.60 | 42.41 | 44.46 | 43.18 | 74.00 | -30.82 | peak |
| 4824.000 | 7.91 | 34.19 | 42.47 | 43.09 | 42.72 | 74.00 | -31.28 | peak |
| 6488.754 | 11.52 | 35.09 | 41.22 | 44.29 | 49.68 | 74.00 | -24.32 | peak |
| 7236.000 | 10.07 | 36.40 | 40.69 | 41.94 | 47.72 | 74.00 | -26.28 | peak |
| | | | | | | | | • |
| | MHz 1525.000 4469.214 4824.000 6488.754 7236.000 | Freq Loss MHz dB 1525.000 5.45 4469.214 7.53 4824.000 7.91 6488.754 11.52 7236.000 10.07 | Freq Loss Factor MHz dB dB/m 1525.000 5.45 25.91 4469.214 7.53 33.60 4824.000 7.91 34.19 6488.754 11.52 35.09 7236.000 10.07 36.40 | Freq Loss Factor Factor MHz dB dB/m dB 1525.000 5.45 25.91 41.42 4469.214 7.53 33.60 42.41 4824.000 7.91 34.19 42.47 6488.754 11.52 35.09 41.22 7236.000 10.07 36.40 40.69 | Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1525.000 5.45 25.91 41.42 44.18 4469.214 7.53 33.60 42.41 44.46 4824.000 7.91 34.19 42.47 43.09 6488.754 11.52 35.09 41.22 44.29 7236.000 10.07 36.40 40.69 41.94 | Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1525.000 5.45 25.91 41.42 44.18 34.12 4469.214 7.53 33.60 42.41 44.46 43.18 4824.000 7.91 34.19 42.47 43.09 42.72 6488.754 11.52 35.09 41.22 44.29 49.68 7236.000 10.07 36.40 40.69 41.94 47.72 | Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1525.000 5.45 25.91 41.42 44.18 34.12 74.00 4469.214 7.53 33.60 42.41 44.46 43.18 74.00 4824.000 7.91 34.19 42.47 43.09 42.72 74.00 6488.754 11.52 35.09 41.22 44.29 49.68 74.00 7236.000 10.07 36.40 40.69 41.94 47.72 74.00 | Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1525.000 5.45 25.91 41.42 44.18 34.12 74.00 -39.88 4469.214 7.53 33.60 42.41 44.46 43.18 74.00 -30.82 4824.000 7.91 34.19 42.47 43.09 42.72 74.00 -31.28 6488.754 11.52 35.09 41.22 44.29 49.68 74.00 -24.32 7236.000 10.07 36.40 40.69 41.94 47.72 74.00 -26.28 9648.000 10.77 37.53 37.68 39.44 50.06 74.00 -23.94 |



Report No.: SZEM180100071903

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| root mode. ooz.rrg root onamon. zowoot romant. roak rionzontar | Test mode: | 802.11g | Test channel: | Lowest | Remark: | Peak | Horizontal |
|--|------------|---------|---------------|--------|---------|------|------------|
|--|------------|---------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2412 TX RSE Note : 2.4G WIFI 11G

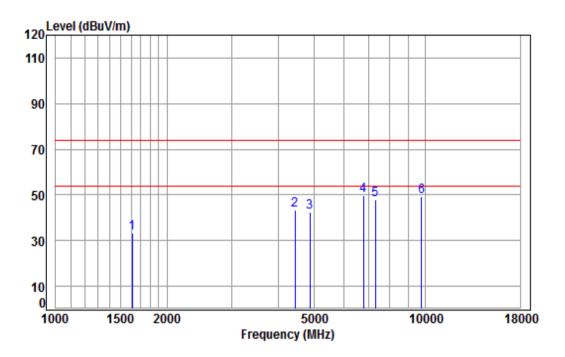
| | - | | | Preamp | | | | | ь. |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | LOSS | Factor | Factor | revel | revel | Line | Limit | Kemark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1658.337 | 5.28 | 26.50 | 41.51 | 42.96 | 33.23 | 74.00 | -40.77 | peak |
| 2 | 4181.768 | 7.20 | 33.60 | 42.36 | 44.99 | 43.43 | 74.00 | -30.57 | peak |
| 3 | 4824.000 | 7.91 | 34.19 | 42.47 | 43.29 | 42.92 | 74.00 | -31.08 | peak |
| 4 pp | 6914.763 | 10.36 | 36.27 | 40.91 | 43.49 | 49.21 | 74.00 | -24.79 | peak |
| 5 | 7236.000 | 10.07 | 36.40 | 40.69 | 42.24 | 48.02 | 74.00 | -25.98 | peak |
| 6 | 9648.000 | 10.77 | 37.53 | 37.68 | 38.41 | 49.03 | 74.00 | -24.97 | peak |



Report No.: SZEM180100071903

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| Test mode: | 802.11g | Test channel: | Middle | Remark: | Peak | Vertical |
|------------|---------|---------------|--------|---------|------|----------|
| | 9 | | | | | |



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11G

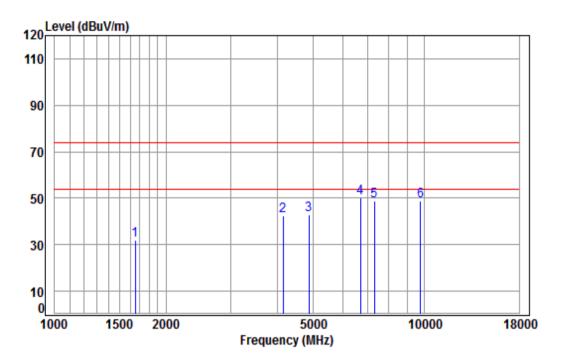
| | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------------|---|--|--|--|---|--|---|--------|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | |
| 1611.091 | 5.34 | 26.30 | 41.48 | 43.06 | 33.22 | 74.00 | -40.78 | peak |
| 4443.453 | 7.50 | 33.60 | 42.41 | 44.85 | 43.54 | 74.00 | -30.46 | peak |
| 4874.000 | 7.96 | 34.28 | 42.48 | 42.67 | 42.43 | 74.00 | -31.57 | peak |
| p 6795.879 | 10.69 | 35.94 | 41.00 | 43.96 | 49.59 | 74.00 | -24.41 | peak |
| 7311.000 | 10.05 | 36.37 | 40.64 | 42.09 | 47.87 | 74.00 | -26.13 | peak |
| 9748.000 | 10.82 | 37.55 | 37.54 | 38.47 | 49.30 | 74.00 | -24.70 | peak |
| | MHz 1611.091 4443.453 4874.000 p 6795.879 7311.000 | Freq Loss MHz dB 1611.091 5.34 4443.453 7.50 4874.000 7.96 p 6795.879 10.69 7311.000 10.05 | Freq Loss Factor MHz dB dB/m 1611.091 5.34 26.30 4443.453 7.50 33.60 4874.000 7.96 34.28 p 6795.879 10.69 35.94 7311.000 10.05 36.37 | Freq Loss Factor Factor MHz dB dB/m dB 1611.091 5.34 26.30 41.48 4443.453 7.50 33.60 42.41 4874.000 7.96 34.28 42.48 p 6795.879 10.69 35.94 41.00 7311.000 10.05 36.37 40.64 | Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1611.091 5.34 26.30 41.48 43.06 4443.453 7.50 33.60 42.41 44.85 4874.000 7.96 34.28 42.48 42.67 p 6795.879 10.69 35.94 41.00 43.96 7311.000 10.05 36.37 40.64 42.09 | Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1611.091 5.34 26.30 41.48 43.06 33.22 4443.453 7.50 33.60 42.41 44.85 43.54 4874.000 7.96 34.28 42.48 42.67 42.43 p 6795.879 10.69 35.94 41.00 43.96 49.59 7311.000 10.05 36.37 40.64 42.09 47.87 | Freq Loss Factor Factor Level Level Line MHz | |



Report No.: SZEM180100071903

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| Test mode: | 802.11g | Test channel: | Middle | Remark: | Peak | Horizontal |
|------------|---------|---------------|--------|---------|------|------------|
| | | | | | | |



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11G

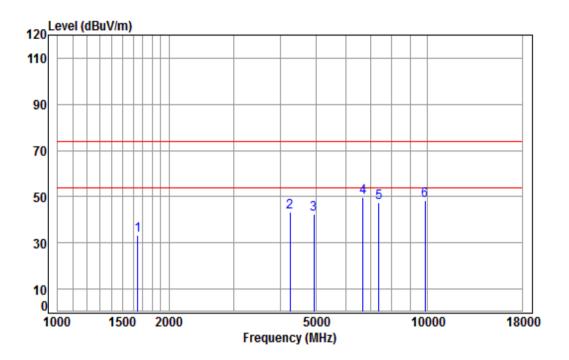
| | | | | Preamp Factor | | | | | Remark |
|-------|----------------------------------|--------------------------------|----------------------------------|------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|------------------------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 414 | 5.664 4.000 7.762 1.000 | 7.16 7.96 10.91 10.05 | 33.60 34.28 35.72 36.37 | 40.64 | 43.85 43.01 44.52 43.04 | 42.26 42.77 50.10 48.82 | 74.00 74.00 74.00 74.00 | -31.74 -31.23 -23.90 -25.18 | peak peak peak peak |



Report No.: SZEM180100071903

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| root model root ordanion riighoot rtomanti roak ronda | Test mode: | 802.11g | Test channel: | Highest | Remark: | Peak | Vertical |
|---|------------|---------|---------------|---------|---------|------|----------|
|---|------------|---------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2462 TX RSE Note : 2.4G WIFI 11G

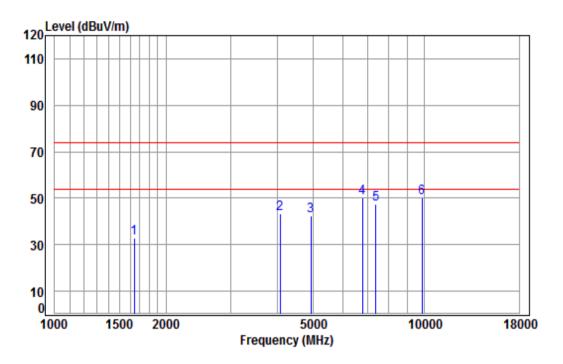
| oce | . 2.4 | G MILT | 110 | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1648.778 | 5.29 | 26.46 | 41.50 | 42.96 | 33.21 | 74.00 | -40.79 | peak |
| 2 | 4242.641 | 7.27 | 33.60 | 42.37 | 44.90 | 43.40 | 74.00 | -30.60 | peak |
| 3 | 4924.000 | 8.01 | 34.37 | 42.49 | 42.40 | 42.29 | 74.00 | -31.71 | peak |
| 4 pp | 6698.373 | 10.97 | 35.67 | 41.07 | 44.05 | 49.62 | 74.00 | -24.38 | peak |
| 5 | 7386.000 | 10.03 | 36.34 | 40.59 | 41.50 | 47.28 | 74.00 | -26.72 | peak |
| 6 | 9848.000 | 10.87 | 37.57 | 37.41 | 37.19 | 48.22 | 74.00 | -25.78 | peak |



Report No.: SZEM180100071903

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| Test mode: | 802.11g | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------|---------|---------------|---------|---------|------|------------|
| | | | | | | |



Condition: 3m HORIZONTAL

Job No : 00719RG

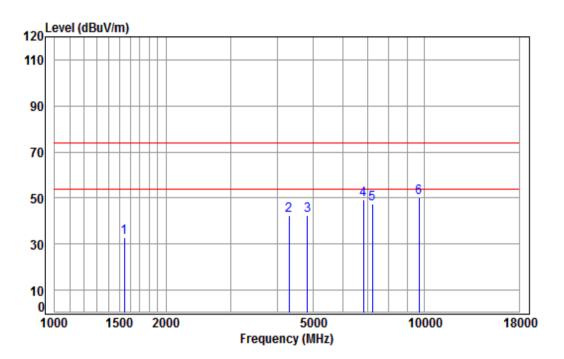
Mode : 2462 TX RSE Note : 2.4G WIFI 11G

| | Freq | | | Preamp Factor | | | | | Remark |
|-------|--------------------------------------|--------------------------------|----------------------------------|------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|------------------------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 407 | 74.388 24.000 95.879 86.000 | 7.07 8.01 10.69 10.03 | 33.60 34.37 35.94 36.34 | 40.59 | 44.82 42.64 44.67 41.75 | 43.15 42.53 50.30 47.53 | 74.00 74.00 74.00 74.00 | -30.85 -31.47 -23.70 -26.47 | peak peak peak peak |



Report No.: SZEM180100071903

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Condition: 3m VERTICAL

Job No : 00719RG

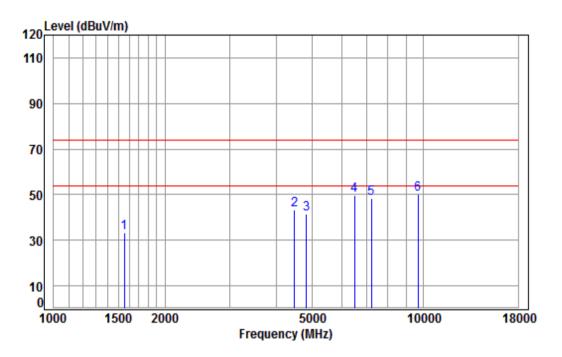
Mode : 2412 TX RSE

| | | Freq | | | Preamp Factor | | | | | Remark |
|---|----|----------|-------|-------|------------------|-------|--------|--------|--------|--------|
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | | 1542.733 | 5.42 | 26.00 | 41.43 | 42.90 | 32.89 | 74.00 | -41.11 | peak |
| 2 | | 4304.400 | 7.34 | 33.60 | 42.38 | 44.04 | 42.60 | 74.00 | -31.40 | peak |
| 3 | | 4824.000 | 7.91 | 34.19 | 42.47 | 43.01 | 42.64 | 74.00 | -31.36 | peak |
| 4 | | 6835.278 | 10.58 | 36.05 | 40.97 | 43.78 | 49.44 | 74.00 | -24.56 | peak |
| 5 | | 7236.000 | 10.07 | 36.40 | 40.69 | 41.60 | 47.38 | 74.00 | -26.62 | peak |
| 6 | pp | 9648.000 | 10.77 | 37.53 | 37.68 | 39.56 | 50.18 | 74.00 | -23.82 | peak |



Report No.: SZEM180100071903

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Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2412 TX RSE

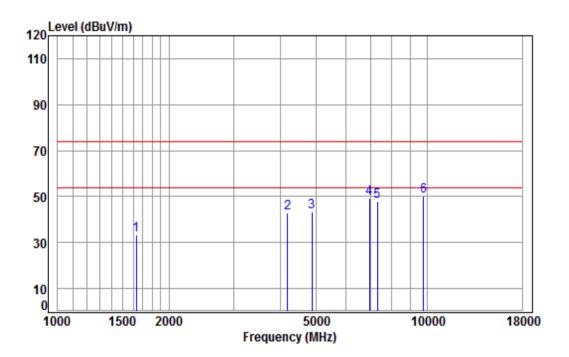
| | | Freq | | | Preamp Factor | | | | | Remark |
|---|----|----------|-------|-------|------------------|-------|--------|--------|--------|--------|
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | | 1551.677 | 5.41 | 26.04 | 41.44 | 43.27 | 33.28 | 74.00 | -40.72 | peak |
| 2 | | 4482.150 | 7.54 | 33.60 | 42.41 | 44.67 | 43.40 | 74.00 | -30.60 | peak |
| 3 | | 4824.000 | 7.91 | 34.19 | 42.47 | 42.11 | 41.74 | 74.00 | -32.26 | peak |
| 4 | | 6507.536 | 11.52 | 35.12 | 41.21 | 44.17 | 49.60 | 74.00 | -24.40 | peak |
| 5 | | 7236.000 | 10.07 | 36.40 | 40.69 | 42.47 | 48.25 | 74.00 | -25.75 | peak |
| 6 | pp | 9648.000 | 10.77 | 37.53 | 37.68 | 39.62 | 50.24 | 74.00 | -23.76 | peak |



Report No.: SZEM180100071903

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| Test mode: | 802.11n(HT20) | Test channel: | Middle | Remark: | Peak | Vertical |
|------------|---------------|---------------|--------|---------|------|----------|
| | | | | | | |



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2437 TX RSE

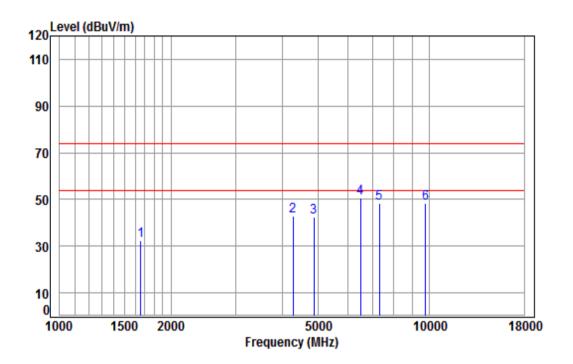
| occ | | . 2.7 | G MILLI | IIIV Z | • | | | | | | |
|-----|----|----------|---------|--------|--------|-------|--------|--------|--------|--------|---|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | | _ |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | | |
| 1 | | 1629.825 | 5.31 | 26.38 | 41.49 | 43.14 | 33.34 | 74.00 | -40.66 | peak | |
| 2 | | 4181.768 | 7.20 | 33.60 | 42.36 | 44.63 | 43.07 | 74.00 | -30.93 | peak | |
| 3 | | 4874.000 | 7.96 | 34.28 | 42.48 | 43.50 | 43.26 | 74.00 | -30.74 | peak | |
| 4 | | 6954.852 | 10.25 | 36.38 | 40.89 | 43.75 | 49.49 | 74.00 | -24.51 | peak | |
| 5 | | 7311.000 | 10.05 | 36.37 | 40.64 | 42.16 | 47.94 | 74.00 | -26.06 | peak | |
| 6 | nn | 9748,000 | 10.82 | 37.55 | 37.54 | 39.34 | 50.17 | 74.00 | -23.83 | neak | |



Report No.: SZEM180100071903

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| Test mode: | 802.11n(HT20) | Test channel: | Middle | Remark: | Peak | Horizontal |
|------------|---------------|---------------|--------|---------|------|------------|
|------------|---------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2437 TX RSE

Note : 2.4G WTFT 11N 20

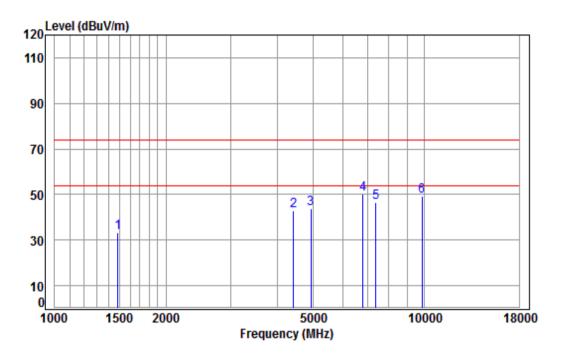
| voce | : 2.4 | G MILI | TIN Z | 0 | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1658.337 | 5.28 | 26.50 | 41.51 | 42.22 | 32.49 | 74.00 | -41.51 | peak |
| 2 | 4279.589 | 7.31 | 33.60 | 42.38 | 44.21 | 42.74 | 74.00 | -31.26 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 42.61 | 42.37 | 74.00 | -31.63 | peak |
| 4 pp | 6507.536 | 11.52 | 35.12 | 41.21 | 45.15 | 50.58 | 74.00 | -23.42 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 42.58 | 48.36 | 74.00 | -25.64 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 37.70 | 48.53 | 74.00 | -25.47 | peak |



Report No.: SZEM180100071903

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| Test mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Vertical |
|------------|---------------|---------------|---------|---------|------|----------|
| | | | | | | |



Condition: 3m VERTICAL

Job No : 00719RG Mode : 2462 TX RSE

1 2

3

5

6

Note : 2.4G WIFI 11N 20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ dB 1481.553 5.42 25.73 41.39 43.49 33.25 74.00 -40.75 peak 4417.841 7.47 33.60 42.40 44.06 42.73 74.00 -31.27 peak 4924.000 8.01 34.37 42.49 43.96 43.85 74.00 -30.15 peak 4 pp 6815.551 10.64 36.00 40.98 44.58 50.24 74.00 -23.76 peak 7386.000 10.03 36.34 40.59 40.76 46.54 74.00 -27.46 peak

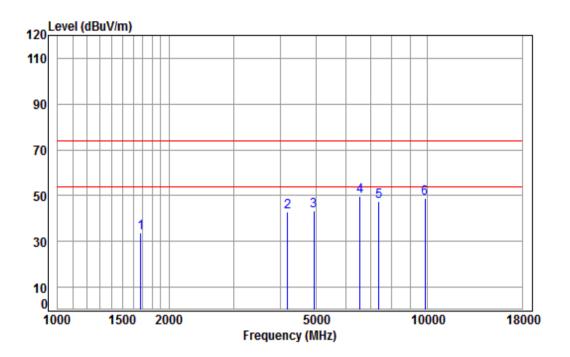
9848.000 10.87 37.57 37.41 38.07 49.10 74.00 -24.90 peak



Report No.: SZEM180100071903

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| Test mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------|---------------|---------------|---------|---------|------|------------|
| | | | | | | |



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2462 TX RSE

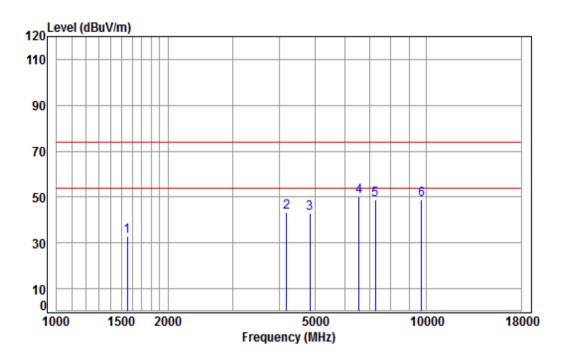
| | | | | | _ | | | | | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1677.621 | 5.25 | 26.58 | 41.52 | 43.34 | 33.65 | 74.00 | -40.35 | peak |
| 2 | | 4181.768 | 7.20 | 33.60 | 42.36 | 44.46 | 42.90 | 74.00 | -31.10 | peak |
| 3 | | 4924.000 | 8.01 | 34.37 | 42.49 | 43.51 | 43.40 | 74.00 | -30.60 | peak |
| 4 | pp | 6564.209 | 11.35 | 35.29 | 41.17 | 44.28 | 49.75 | 74.00 | -24.25 | peak |
| 5 | | 7386.000 | 10.03 | 36.34 | 40.59 | 41.73 | 47.51 | 74.00 | -26.49 | peak |
| 6 | | 9848.000 | 10.87 | 37.57 | 37.41 | 37.71 | 48.74 | 74.00 | -25.26 | peak |



Report No.: SZEM180100071903

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| Test mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------|---------------|---------------|--------|---------|------|----------|
| | | | | | | |



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2422 TX RSE

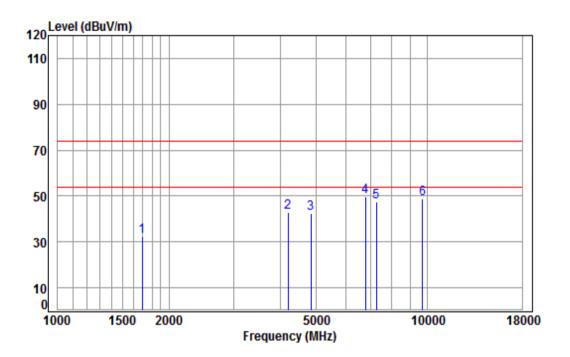
| occ | . 2.7 | G MILI | TIM T | • | | | | | |
|-----|------------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dВ | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1551.677 | 5.41 | 26.04 | 41.44 | 42.62 | 32.63 | 74.00 | -41.37 | peak |
| | 4181.768 | | | | | | | | • |
| 3 | 4844.000 | 7.93 | 34.23 | 42.48 | 42.98 | 42.66 | 74.00 | -31.34 | peak |
| 4 p | p 6564.209 | 11.35 | 35.29 | 41.17 | 44.55 | 50.02 | 74.00 | -23.98 | peak |
| 5 | 7266.000 | 10.06 | 36.39 | 40.67 | 43.15 | 48.93 | 74.00 | -25.07 | peak |
| 6 | 9688.000 | 10.79 | 37.54 | 37.63 | 37.94 | 48.64 | 74.00 | -25.36 | peak |



Report No.: SZEM180100071903

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| Test mode: 802 | 2.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|----------------|-------------|---------------|--------|---------|------|------------|
|----------------|-------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No : 00719RG

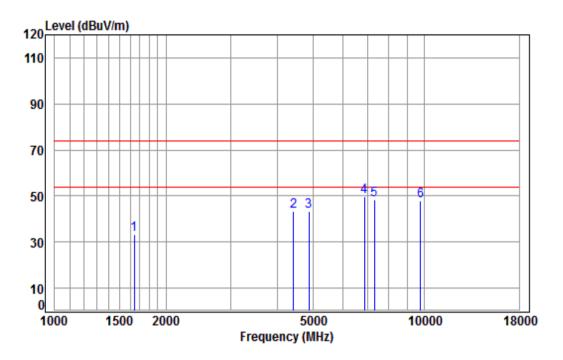
Mode : 2422 TX RSE

| OCC | . 2.7 | G MILLI | TIM T | • | | | | | |
|------|----------|---------|--------|--------|-------|--------|--------|--------|--------|
| | | 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 | 1692.231 | 5.24 | 26.64 | 41.53 | 41.93 | 32.28 | 74.00 | -41.72 | peak |
| 2 | 4193.872 | 7.21 | 33.60 | 42.36 | 44.59 | 43.04 | 74.00 | -30.96 | peak |
| 3 | 4844.000 | 7.93 | 34.23 | 42.48 | 42.91 | 42.59 | 74.00 | -31.41 | peak |
| 4 pp | 6795.879 | 10.69 | 35.94 | 41.00 | 44.03 | 49.66 | 74.00 | -24.34 | peak |
| 5 | 7266.000 | 10.06 | 36.39 | 40.67 | 41.74 | 47.52 | 74.00 | -26.48 | peak |
| 6 | 9688.000 | 10.79 | 37.54 | 37.63 | 38.01 | 48.71 | 74.00 | -25.29 | peak |



Report No.: SZEM180100071903

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Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2437 TX RSE

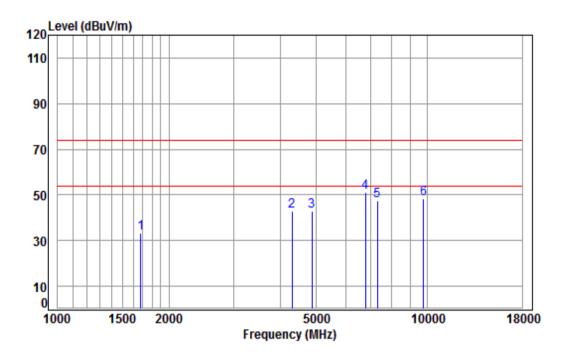
| | | | | _ | | | | | |
|-----|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1644.019 | 5.30 | 26.44 | 41.50 | 42.92 | 33.16 | 74.00 | -40.84 | peak |
| 2 | 4417.841 | 7.47 | 33.60 | 42.40 | 44.45 | 43.12 | 74.00 | -30.88 | peak |
| 3 | 4874.000 | 7.96 | 34.28 | 42.48 | 43.67 | 43.43 | 74.00 | -30.57 | peak |
| 4 p | p 6874.906 | 10.47 | 36.16 | 40.94 | 44.16 | 49.85 | 74.00 | -24.15 | peak |
| 5 | 7311.000 | 10.05 | 36.37 | 40.64 | 42.77 | 48.55 | 74.00 | -25.45 | peak |
| 6 | 9748.000 | 10.82 | 37.55 | 37.54 | 37.21 | 48.04 | 74.00 | -25.96 | peak |



Report No.: SZEM180100071903

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| Test mode: 802.11n(HT40) Test channel: Middle Remark: Peak Horiz |
|--|
|--|



Condition: 3m HORIZONTAL

Job No : 00719RG

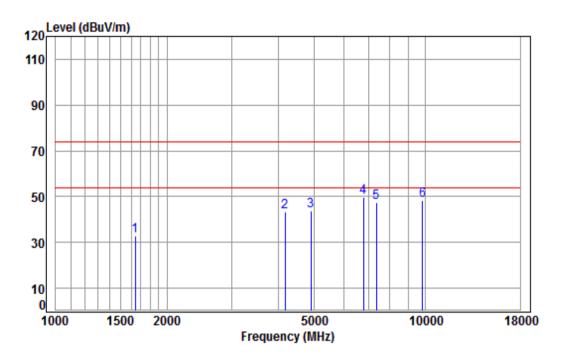
Mode : 2437 TX RSE

| | | | | _ | | | | | |
|----|----------|--|--|---|---|--|---|---|--------|
| | | 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 | |
| | | | | | | | | | |
| | 1677.621 | 5.25 | 26.58 | 41.52 | 43.04 | 33.35 | 74.00 | -40.65 | peak |
| | 4304.400 | 7.34 | 33.60 | 42.38 | 44.22 | 42.78 | 74.00 | -31.22 | peak |
| | 4874.000 | 7.96 | 34.28 | 42.48 | 43.24 | 43.00 | 74.00 | -31.00 | peak |
| ор | 6795.879 | 10.69 | 35.94 | 41.00 | 45.31 | 50.94 | 74.00 | -23.06 | peak |
| | 7311.000 | 10.05 | 36.37 | 40.64 | 41.48 | 47.26 | 74.00 | -26.74 | peak |
| | 9748.000 | 10.82 | 37.55 | 37.54 | 37.33 | 48.16 | 74.00 | -25.84 | peak |
| | op | MHz 1677.621 4304.400 4874.000 op 6795.879 7311.000 | Freq Loss MHz dB 1677.621 5.25 4304.400 7.34 4874.000 7.96 p 6795.879 10.69 7311.000 10.05 | Freq Loss Factor MHz dB dB/m 1677.621 5.25 26.58 4304.400 7.34 33.60 4874.000 7.96 34.28 pp 6795.879 10.69 35.94 7311.000 10.05 36.37 | Freq Loss Factor Factor MHz dB dB/m dB 1677.621 5.25 26.58 41.52 4304.400 7.34 33.60 42.38 4874.000 7.96 34.28 42.48 ap 6795.879 10.69 35.94 41.00 7311.000 10.05 36.37 40.64 | Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1677.621 5.25 26.58 41.52 43.04 4304.400 7.34 33.60 42.38 44.22 4874.000 7.96 34.28 42.48 43.24 pp 6795.879 10.69 35.94 41.00 45.31 7311.000 10.05 36.37 40.64 41.48 | Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1677.621 5.25 26.58 41.52 43.04 33.35 4304.400 7.34 33.60 42.38 44.22 42.78 4874.000 7.96 34.28 42.48 43.24 43.00 pp 6795.879 10.69 35.94 41.00 45.31 50.94 7311.000 10.05 36.37 40.64 41.48 47.26 | Freq Loss Factor Factor Level Level Line MHz | |



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Condition: 3m VERTICAL

Job No : 00719RG

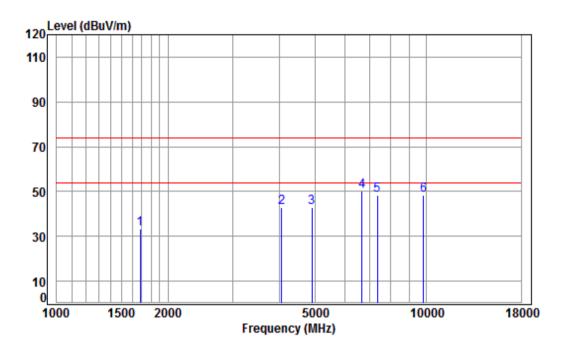
Mode : 2452 TX RSE

| 0 | | | 1114 | • | | | | | |
|-----|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | 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 | 5.30 | 26.44 | 41.50 | 42.73 | 32.97 | 74.00 | -41.03 | peak |
| 2 | 4169.698 | 7.18 | 33.60 | 42.36 | 45.09 | 43.51 | 74.00 | -30.49 | peak |
| 3 | 4904.000 | 7.99 | 34.33 | 42.48 | 43.78 | 43.62 | 74.00 | -30.38 | peak |
| 4 p | p 6795.879 | 10.69 | 35.94 | 41.00 | 44.15 | 49.78 | 74.00 | -24.22 | peak |
| 5 | 7356.000 | 10.04 | 36.36 | 40.61 | 41.61 | 47.40 | 74.00 | -26.60 | peak |
| 6 | 9808.000 | 10.85 | 37.56 | 37.46 | 37.57 | 48.52 | 74.00 | -25.48 | peak |



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Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2452 TX RSE

| 0.00 | | | | • | | | | | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | 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 | 1682.477 | 5.25 | 26.60 | 41.52 | 42.95 | 33.28 | 74.00 | -40.72 | peak |
| 2 | 4050.904 | 7.04 | 33.60 | 42.34 | 44.50 | 42.80 | 74.00 | -31.20 | peak |
| 3 | 4904.000 | 7.99 | 34.33 | 42.48 | 42.99 | 42.83 | 74.00 | -31.17 | peak |
| 4 pp | 6679.040 | 11.02 | 35.61 | 41.08 | 44.60 | 50.15 | 74.00 | -23.85 | peak |
| 5 | 7356.000 | 10.04 | 36.36 | 40.61 | 42.49 | 48.28 | 74.00 | -25.72 | peak |
| 6 | 9808.000 | 10.85 | 37.56 | 37.46 | 37.46 | 48.41 | 74.00 | -25.59 | peak |



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Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, 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. So, only the peak measurements were shown in the report.

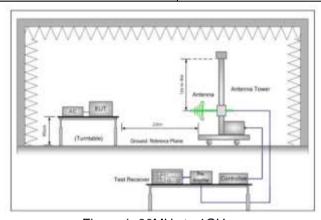


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6.9 Restricted bands around fundamental frequency

| Test Requirement: | 47 CFR Part 15C Section | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | | | |
|-------------------|---------------------------|--|------------------|--|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2013 Section | ANSI C63.10: 2013 Section 11.12 | | | | | | | |
| Test Site: | Measurement Distance: 3r | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | |
| Limit: | Frequency | Limit (dBuV/m @3m) | Remark | | | | | | |
| | 30MHz-88MHz | 40.0 | Quasi-peak Value | | | | | | |
| | 88MHz-216MHz | 43.5 | Quasi-peak Value | | | | | | |
| | 216MHz-960MHz | 46.0 | Quasi-peak Value | | | | | | |
| | 960MHz-1GHz | 54.0 | Quasi-peak Value | | | | | | |
| | Above 1CUz | 54.0 | Average Value | | | | | | |
| | Above 1GHz | 74.0 | Peak Value | | | | | | |
| Test Setup: | | • | • | | | | | | |



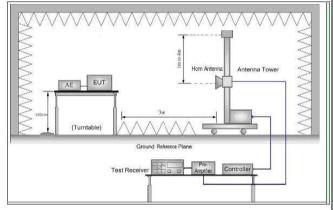


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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| | 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 camber. 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 semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. | | | | |
| | c. The EUT was set 3 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. | | | | |
| Test Procedure: | 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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel | | | | |
| | h. Test the EUT in the lowest 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 worse case. | | | | |
| | j. Repeat above procedures until all frequencies measured was complete. | | | | |
| Evoloratory Toot Mada: | Transmitting with all kind of modulations, data rates. | | | | |
| Exploratory Test Mode: | Charge + Transmitting mode. | | | | |
| | Pretest the EUT at Charge +Transmitting mode. | | | | |
| 5: 17 AM | Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; | | | | |
| Final Test Mode: | 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. | | | | |
| Instruments Used: | Refer to section 5.10 for details | | | | |
| Test Results: | Pass | | | | |
| | | | | | |

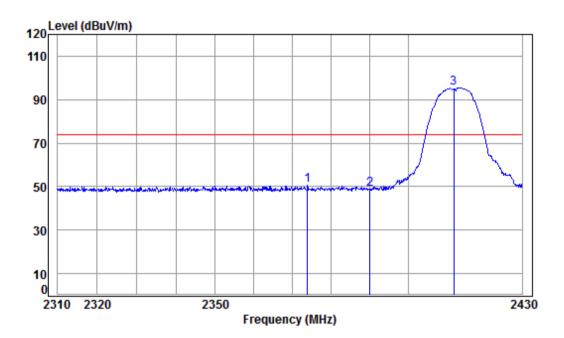


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Test plot as follows:





Condition: 3m VERTICAL Job No : 00719RG

Mode : 2412 Band edge

Note : 11B

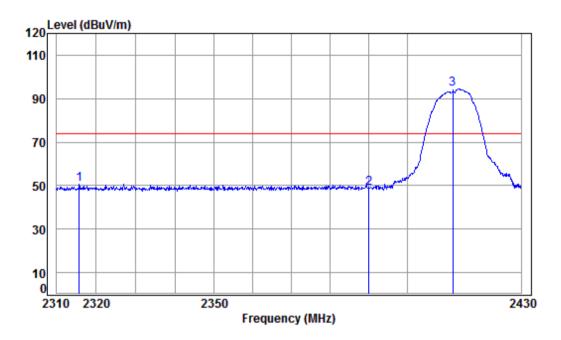
| | Freq | | Ant Factor | | | | | | Remark |
|---|----------------------------------|------|---------------|-------|-------|--------|--------|--------|--------|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2373.804 2390.000 2412.000 | 5.47 | 29.08 | 41.87 | 56.35 | 49.03 | 74.00 | -24.97 | Peak |



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| Worse case mode: 802.11b Test channel: Lowest Remark: Peak Horizontal |
|---|
|---|



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2412 Band edge

Note : 11B

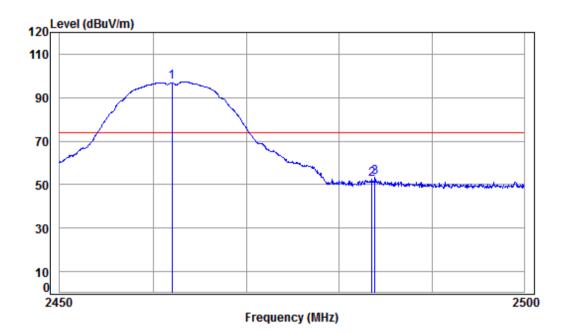
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2315.740 | 5.37 | 28.85 | 41.84 | 58.23 | 50.61 | 74.00 | -23.39 | peak |
| 2 | 2390.000 | 5.47 | 29.08 | 41.87 | 56.21 | 48.89 | 74.00 | -25.11 | peak |
| 3 рр | 2412.000 | 5.50 | 29.14 | 41.88 | 101.53 | 94.29 | 74.00 | 20.29 | peak |



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| Worse case mode: | 802.11b | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------|---------------|---------|---------|------|----------|
| | | | | | | |



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2462 Band edge

Note: 11B

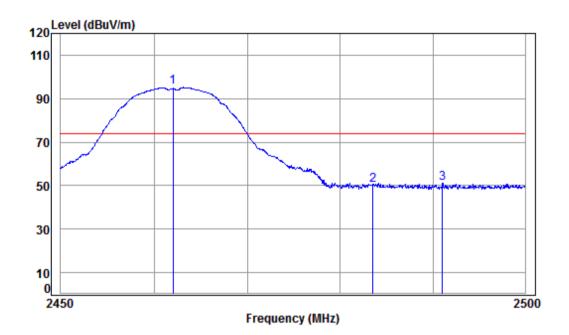
| | Freq | | Ant Factor | | | | | | Remark |
|---|----------------------------------|------|---------------|-------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2483.840 | 5.60 | 29.35 | 41.91 | 59.29 | 52.33 | 74.00 | -21.67 | Peak |



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| Worse case mode: | 802.11b | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|---------|---------|------|------------|
|------------------|---------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2462 Band edge

Note : 11B

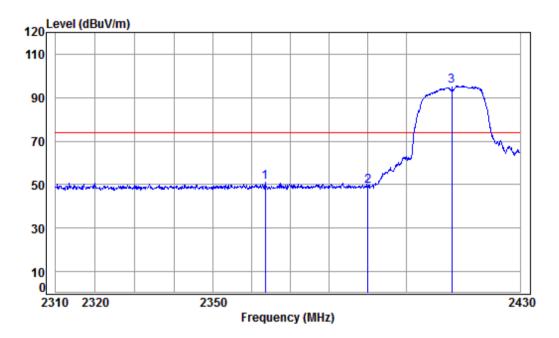
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | рр | 2462.000 | 5.57 | 29.29 | 41.90 | 102.18 | 95.14 | 74.00 | 21.14 | peak |
| 2 | | 2483.500 | 5.60 | 29.35 | 41.91 | 57.22 | 50.26 | 74.00 | -23.74 | peak |
| 3 | | 2491.026 | 5.61 | 29.37 | 41.91 | 57.92 | 50.99 | 74.00 | -23.01 | peak |



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| Worse case mode: 802 | 02.11g Test channel: | Lowest Remark | :: Peak | Vertical |
|------------------------|----------------------|---------------|---------|----------|
|------------------------|----------------------|---------------|---------|----------|



Condition: 3m VERTICAL Job No : 00719RG

Mode : 2412 Band edge

Note : 11G

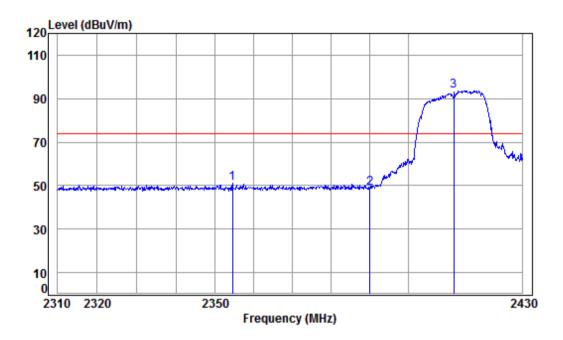
| | Freq | | Ant Factor | | | | | | Remark |
|---|----------------------------------|------|---------------|-------|-------|--------|--------|--------|--------|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2363.368 2390.000 2412.000 | 5.47 | 29.08 | 41.87 | 56.38 | 49.06 | 74.00 | -24.94 | Peak |



Report No.: SZEM180100071903

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| Worse | case mode: | 802.11g | Test channel: | Lowest | Remark: | Peak | Horizontal |
|-------|------------|---------|---------------|--------|---------|------|------------|
| | | | | | | | |



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2412 Band edge

Note : 11G

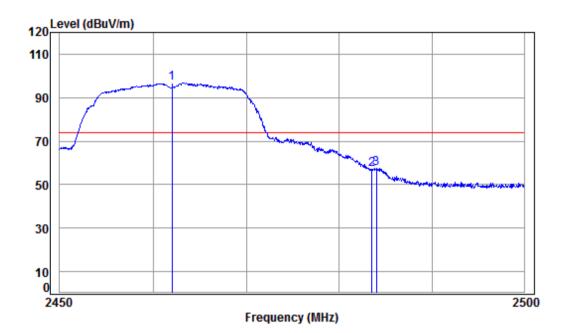
| | Freq | | | | | Level | | | Remark |
|---|----------------------------------|------|-------|-------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2354.528 2390.000 2412.000 | 5.47 | 29.08 | 41.87 | 55.95 | 48.63 | 74.00 | -25.37 | peak |



Report No.: SZEM180100071903

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| Worse case mode: 802.11g Test channel: Highest Remark: Peak Vertical |
|--|
|--|



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2462 Band edge

Note: 11G

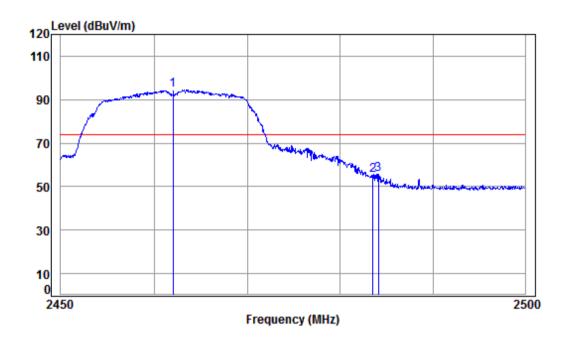
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 5.57 | 29.29 | 41.90 | 103.83 | 96.79 | 74.00 | 22.79 | Peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 63.90 | 56.94 | 74.00 | -17.06 | Peak |
| 3 | 2483.990 | 5.60 | 29.35 | 41.91 | 64.67 | 57.71 | 74.00 | -16.29 | Peak |



Report No.: SZEM180100071903

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| Wor | se case mode: | 802.11g | Test channel: | Highest | Remark: | Peak | Horizontal |
|-----|---------------|---------|---------------|---------|---------|------|------------|
|-----|---------------|---------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2462 Band edge

Note : 11G

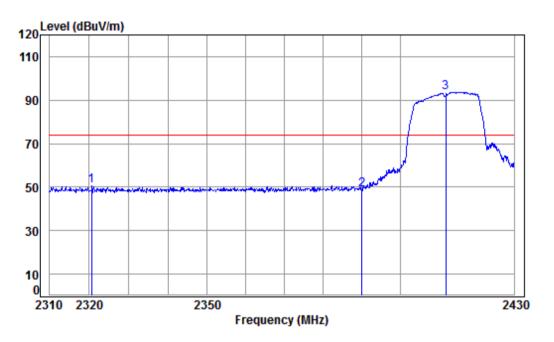
| | | Freq | | Ant Factor | | | | | | Remark |
|---|---|----------------------------------|------|---------------|-------|-------|--------|--------|--------|--------|
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | | 2462.000 2483.500 2484.091 | 5.60 | 29.35 | 41.91 | 62.05 | 55.09 | 74.00 | -18.91 | peak |



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| Worse case mode: 8 | 302.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Vertical |
|--------------------|---------------|---------------|--------|---------|------|----------|
|--------------------|---------------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Mode : 2412 Band edge

: 00719RG

Note : 11N 20

Job No

1 2 3

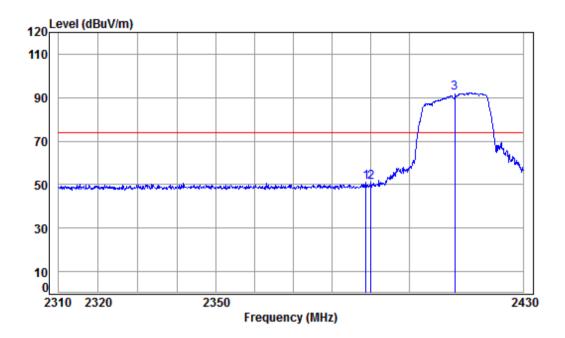
| | Freq | | | | | | Limit Line | | Remark |
|----|----------|------|-------|-------|--------|--------|---------------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | 2320.670 | 5.38 | 28.87 | 41.84 | 58.35 | 50.76 | 74.00 | -23.24 | Peak |
| | 2390.000 | 5.47 | 29.08 | 41.87 | 56.02 | 48.70 | 74.00 | -25.30 | Peak |
| pp | 2412.000 | 5.50 | 29.14 | 41.88 | 100.99 | 93.75 | 74.00 | 19.75 | Peak |



Report No.: SZEM180100071903

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| Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|--------|---------|------|------------|
|------------------|---------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2412 Band edge

Note : 11N 20

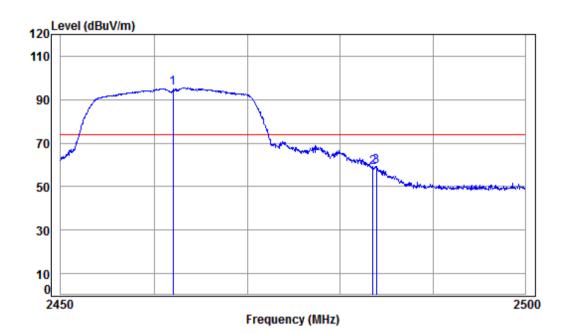
| | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|-------------|-----------------------------|--|--|--|--------------------------------------|--|---|--|---|
| Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | |
| 2388.758 | 5.47 | 29.07 | 41.87 | 58.38 | 51.05 | 74.00 | -22.95 | peak | |
| 2390.000 | 5.47 | 29.08 | 41.87 | 58.27 | 50.95 | 74.00 | -23.05 | peak | |
| pp 2412.000 | 5.50 | 29.14 | 41.88 | 99.49 | 92.25 | 74.00 | 18.25 | peak | |
| | MHz 2388.758 2390.000 | Freq Loss MHz dB 2388.758 5.47 2390.000 5.47 | Freq Loss Factor MHz dB dB/m 2388.758 5.47 29.07 2390.000 5.47 29.08 | Freq Loss Factor Factor MHz dB dB/m dB 2388.758 5.47 29.07 41.87 2390.000 5.47 29.08 41.87 | Freq Loss Factor Factor Level MHz | Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2388.758 5.47 29.07 41.87 58.38 51.05 2390.000 5.47 29.08 41.87 58.27 50.95 | Freq Loss Factor Factor Level Level Line MHz | MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2388.758 5.47 29.07 41.87 58.38 51.05 74.00 -22.95 2390.000 5.47 29.08 41.87 58.27 50.95 74.00 -23.05 | Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB |



Report No.: SZEM180100071903

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| | Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Vertical |
|--|------------------|---------------|---------------|---------|---------|------|----------|
|--|------------------|---------------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2462 Band edge

Note : 11N 20

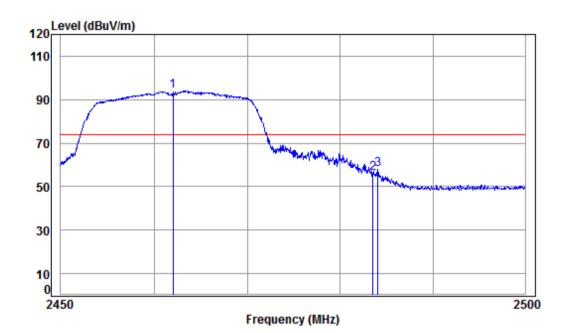
| | Freq | | Ant Factor | | | | | | Remark |
|---|----------------------------------|------|---------------|-------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 | 2462.000 2483.500 2483.890 | 5.60 | 29.35 | 41.91 | 65.68 | 58.72 | 74.00 | -15.28 | Peak |



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| Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal |
|--|
|--|



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2462 Band edge

Note : 11N 20

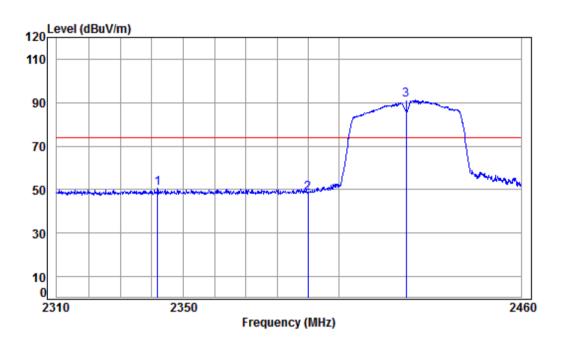
| | . 17 | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|-----|------------|-------|-------|--------|--------|--------|--------|--------|--------|--|
| | Freq | | | | | | | | Remark | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| 1 p | p 2462.000 | 5.57 | 29.29 | 41.90 | 101.11 | 94.07 | 74.00 | 20.07 | peak | |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 63.24 | 56.28 | 74.00 | -17.72 | peak | |
| 3 | 2484.041 | 5.60 | 29.35 | 41.91 | 65.05 | 58.09 | 74.00 | -15.91 | peak | |



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| Worse | case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Vertical |
|-------|------------|---------------|---------------|--------|---------|------|----------|
|-------|------------|---------------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2422 Band edge

Note : 11N 40

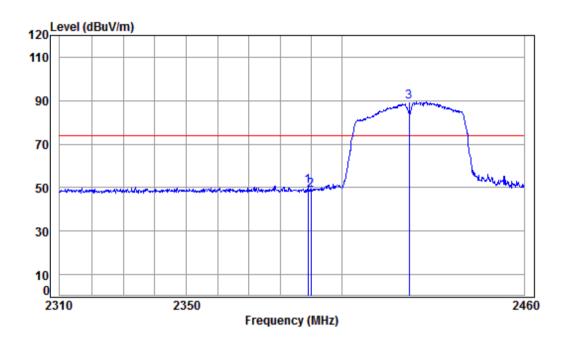
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 2341.900 | 5.41 | 28.93 | 41.85 | 57.95 | 50.44 | 74.00 | -23.56 | Peak |
| 2 | | 2390.000 | 5.47 | 29.08 | 41.87 | 55.50 | 48.18 | 74.00 | -25.82 | Peak |
| 3 | pp | 2422.000 | 5.52 | 29.17 | 41.89 | 98.29 | 91.09 | 74.00 | 17.09 | Peak |



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| | Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|-----|------------------|---------------|---------------|--------|---------|------|------------|
| - 1 | | (- , | | | | | |



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2422 Band edge

Note : 11N 40

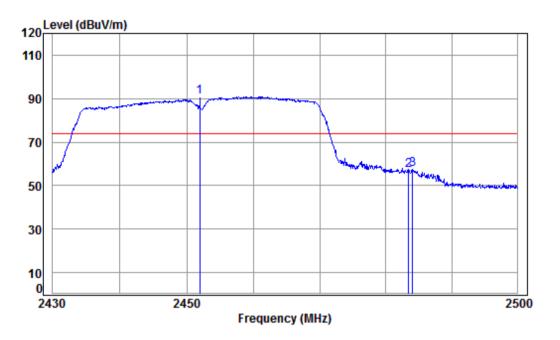
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2389.075 | 5.47 | 29.07 | 41.87 | 57.94 | 50.61 | 74.00 | -23.39 | peak |
| 2 | 2390.000 | 5.47 | 29.08 | 41.87 | 56.26 | 48.94 | 74.00 | -25.06 | peak |
| 3 рр | 2422.000 | 5.52 | 29.17 | 41.89 | 96.43 | 89.23 | 74.00 | 15.23 | peak |



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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Vertical



Condition: 3m VERTICAL

Job No : 00719RG

Mode : 2452 Band edge

Note : 11N 40

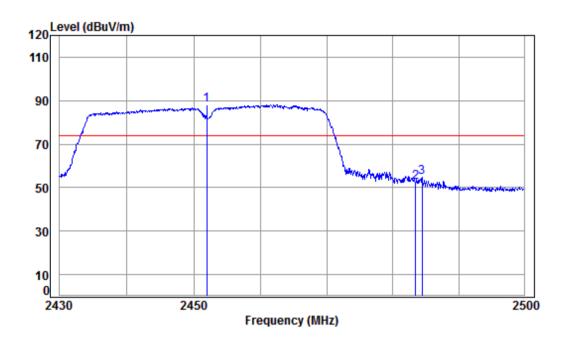
| | | | | Preamp Factor | | | | | Remark |
|---------|--------|------|-------|------------------|-------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp 24 | 52.000 | 5.56 | 29.26 | 41.90 | 97.84 | 90.76 | 74.00 | 16.76 | Peak |
| 2 24 | 83.500 | 5.60 | 29.35 | 41.91 | 64.11 | 57.15 | 74.00 | -16.85 | Peak |
| 3 24 | 84.076 | 5.60 | 29.35 | 41.91 | 64.28 | 57.32 | 74.00 | -16.68 | Peak |



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| Worse case mode: | 802 11n(HT40) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|-------------------|-------------------|------------|-----------|-------|---------------|
| Worde dade mode. | 1 002.1111(11170) | i cot oriaririoi. | i ligilost | i tomant. | 1 Car | 1 IOTIZOTILAI |



Condition: 3m HORIZONTAL

Job No : 00719RG

Mode : 2452 Band edge

Note : 11N 40

| | | | 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 | | 2452 000 | F F6 | 20.25 | 44.00 | 05.46 | 00.00 | 74.00 | 44.00 | |
| | | 2452.000 | | | | | | | | • |
| 2 | | 2483.500 | 5.60 | 29.35 | 41.91 | 59.37 | 52.41 | 74.00 | -21.59 | peak |
| 3 | | 2484.429 | 5.60 | 29.36 | 41.91 | 61.70 | 54.75 | 74.00 | -19.25 | peak |



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Note:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1801000719RG.