

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180500461702

Fax: +86 (0) 755 2671 0594 Page: 1 of 41

TEST REPORT

Application No.: SZEM1805004617CR **Applicant:** NEXT SUCCESS INC.

Address of Applicant: PO BOX 3202, CHAMPLAIN, New York 12919, United States

Manufacturer: Mercedez-Benz Accessories GmbH

Address of Manufacturer: HPC Z 402, Am Wallgraben 125, 70565 Stuttgart, Germany

Equipment Under Test (EUT):

EUT Name: Classic 300SL Computermice Model No.: B66041625, B66041488 &

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AP36-660478

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2018-05-31

Date of Test: 2018-06-07 to 2018-06-13

Date of Issue: 2018-06-16

Test Result: Pass*



EMC Laboratory Manager

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

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



Report No.: SZEM180500461702

Page: 2 of 41

| | Revision Record | | | | | |
|---------|-----------------------------------|------------|--|----------|--|--|
| Version | Version Chapter Date Modifier Ren | | | | | |
| 01 | | 2018-06-16 | | Original | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | |
|--------------------------|--------------------------------|--|
| | Vincent Chen | |
| | Vincent Chen /Project Engineer | |
| | EvicFu | |
| | Eric Fu /Reviewer | |



Report No.: SZEM180500461702

Page: 3 of 41

2 Test Summary

| Radio Spectrum Technical Requirement | | | | | | |
|---|-------------------------------------|-----|-------------------------------------|------|--|--|
| Item Standard Method Requirement Result | | | | | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.249 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass | | |

| Radio Spectrum Matter Part | | | | | | | |
|--|-------------------------------------|---|---|--------|--|--|--|
| Item | Standard | Method | Requirement | Result | | | |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.9 | 47 CFR Part 15, Subpart C 15.215 | Pass | | | |
| Field Strength of the Fundamental Signal (15.249(a)) | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.5&6.6 | 47 CFR Part 15, Subpart C 15.249(a) | Pass | | | |
| Restricted Band Around Fundamental Frequency | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 | Pass | | | |
| Radiated Emissions | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d) | Pass | | | |

Remark:

Model No.: B66041625, B66041488

Only the B66041488 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on colour.



Report No.: SZEM180500461702

Page: 4 of 41

3 Contents

| | | | raye |
|---|-------|--|-------|
| 1 | COVE | R PAGE | 1 |
| 2 | TEST | SUMMARY | 3 |
| _ | | | |
| 3 | CONT | ENTS | 4 |
| 4 | GENE | RAL INFORMATION | 5 |
| | | DETAILS OF E.U.T | |
| | 4.2 D | DESCRIPTION OF SUPPORT UNITS | 5 |
| | 4.3 N | MEASUREMENT UNCERTAINTY | 5 |
| | 4.4 T | EST LOCATION | 6 |
| | | EST FACILITY | |
| | | DEVIATION FROM STANDARDS | |
| | 4.7 A | ABNORMALITIES FROM STANDARD CONDITIONS | 6 |
| 5 | EQUIF | PMENT LIST | 7 |
| _ | DADIC | | 40 |
| 6 | | O SPECTRUM TECHNICAL REQUIREMENT | |
| | | ANTENNA REQUIREMENT | |
| | 6.1.1 | Test Requirement: | |
| | 6.1.2 | Conclusion | 10 |
| 7 | RADIC | O SPECTRUM MATTER TEST RESULTS | 11 |
| | 7.1 2 | ODB BANDWIDTH | |
| | 7.1.1 | E.U.T. Operation | 11 |
| | 7.1.2 | Test Setup Diagram | |
| | 7.1.3 | Measurement Procedure and Data | |
| | | OUTY CYCLE | |
| | | FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.249(A)) | |
| | 7.3.1 | E.U.T. Operation | |
| | 7.3.2 | Test Setup Diagram | |
| | 7.3.3 | Measurement Procedure and Data | |
| | 7.4 F | RESTRICTED BAND AROUND FUNDAMENTAL FREQUENCY | |
| | 7.4.1 | E.U.T. Operation | |
| | 7.4.2 | Test Setup Diagram | |
| | 7.4.3 | Measurement Procedure and Data | |
| | | RADIATED EMISSIONS | |
| | 7.5.1 | E.U.T. Operation | |
| | 7.5.2 | Test Setup Diagram | |
| | 7.5.3 | Measurement Procedure and Data | 32-41 |



Report No.: SZEM180500461702

Page: 5 of 41

4 General Information

4.1 Details of E.U.T.

| Power supply: | DC 5V from USB port |
|---------------------|---------------------|
| Antenna Gain | -0.61dBi |
| Antenna Type | PCB Antenna |
| Channel Spacing | 2MHz |
| Modulation Type | FSK |
| Number of Channels | 34 |
| Operation Frequency | 2408-2474MHz |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|-----------------|
| Laptop | Lenovo | T430u | REF. No.SEA1800 |

4.3 Measurement Uncertainty

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



Report No.: SZEM180500461702

Page: 6 of 41

4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• CNAS (No. CNAS L2929)

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

A2LA (Certificate No. 3816.01)

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

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



Report No.: SZEM180500461702

Page: 7 of 41

5 Equipment List

| 20dB Bandwidth | | | | | | |
|----------------------|----------------------|-------------------------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2018-04-02 | 2019-04-01 | |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2017-07-13 | 2018-07-12 | |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2017-09-27 | 2018-09-26 | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2017-09-27 | 2018-09-26 | |

| Field Strength of the Fundamental Signal (15.249(a)) | | | | | | |
|--|--|-----------------------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2017-07-13 | 2018-07-12 | |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2018-04-02 | 2019-04-01 | |
| BiConiLog Antenna (26- 3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 | |
| Horn Antenna (1- 18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 | |
| Horn Antenna(15GHz- 40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 | |
| Pre-amplifier (0.1- 1300MHz) | HP | 8447D | SEM005-02 | 2017-09-27 | 2018-09-26 | |
| Low Noise Amplifier(100MHz- 18GHz) | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2017-09-27 | 2018-09-27 | |
| Pre-amplifier(18-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2018-04-02 | 2019-04-01 | |
| Pre-amplifier(26GHz- 40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2018-04-02 | 2019-04-01 | |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 | |
| Band filter | N/A | N/A | SEM023-01 | N/A | N/A | |



Report No.: SZEM180500461702

Page: 8 of 41

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|--|--|-----------------------|--------------|------------|--------------|
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2017-07-13 | 2018-07-12 |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2018-04-02 | 2019-04-01 |
| BiConiLog Antenna (26- 3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| Horn Antenna (1- 18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 |
| Horn Antenna(15GHz- 40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 |
| Pre-amplifier (0.1- 1300MHz) | HP | 8447D | SEM005-02 | 2017-09-27 | 2018-09-26 |
| Low Noise Amplifier(100MHz- 18GHz) | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2017-09-27 | 2018-09-27 |
| Pre-amplifier(18-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2018-04-02 | 2019-04-01 |
| Pre-amplifier(26GHz- 40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2018-04-02 | 2019-04-01 |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
| Band filter | N/A | N/A | SEM023-01 | N/A | N/A |



Report No.: SZEM180500461702

Page: 9 of 41

| Radiated Emissions | Manufacture | Model No | Inventory No | Cal Data | Cal Dua Data |
|--|--|-----------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2017-07-13 | 2018-07-12 |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2018-04-02 | 2019-04-01 |
| BiConiLog Antenna (26- 3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| Horn Antenna (1- 18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 |
| Horn Antenna(15GHz- 40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 |
| Pre-amplifier (0.1- 1300MHz) | HP | 8447D | SEM005-02 | 2017-09-27 | 2018-09-26 |
| Low Noise Amplifier(100MHz- 18GHz) | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2017-09-27 | 2018-09-27 |
| Pre-amplifier(18-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2018-04-02 | 2019-04-01 |
| Pre-amplifier(26GHz- 40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2018-04-02 | 2019-04-01 |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
| Band filter | N/A | N/A | SEM023-01 | N/A | N/A |

| General used equipmen | t | | | | |
|------------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2017-09-29 | 2018-09-28 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2017-09-29 | 2018-09-28 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2017-09-29 | 2018-09-28 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2018-04-08 | 2019-04-07 |



Report No.: SZEM180500461702

Page: 10 of 41

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 Limit:

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.

6.1.2 Conclusion

Standard 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.61dBi.



Report No.: SZEM180500461702

Page: 11 of 41

7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

Limit: N/A

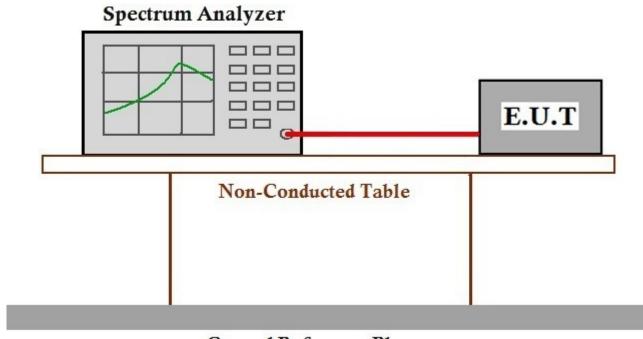
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 50.8 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data



Center 2.408 GHz

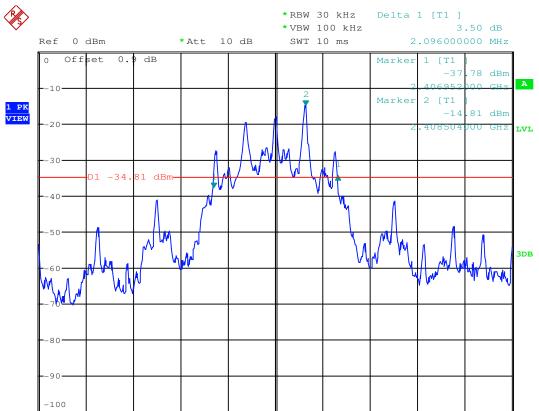
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM180500461702

Page: 12 of 41

Span 8 MHz

Dongle: 2408MHz



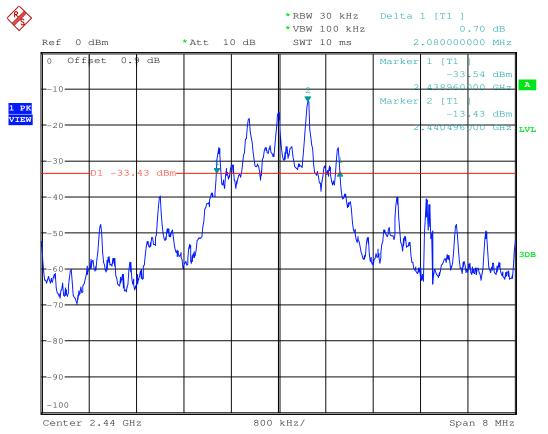
800 kHz/



Report No.: SZEM180500461702

Page: 13 of 41

2440MHz

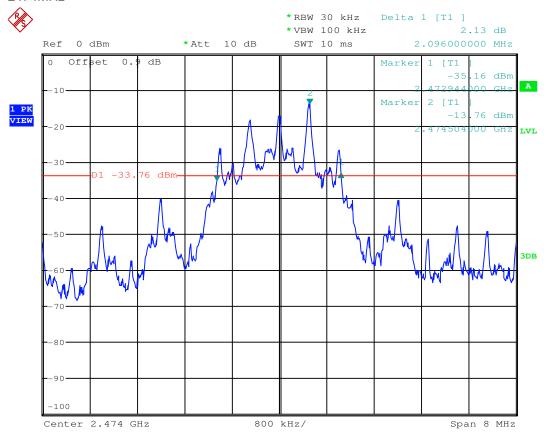




Report No.: SZEM180500461702

Page: 14 of 41

2474MHz

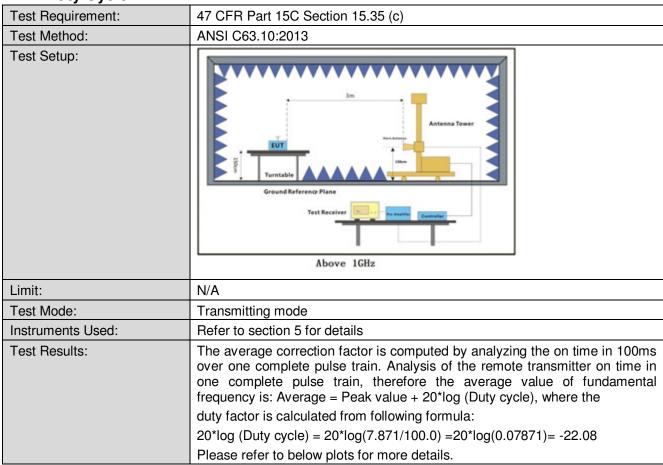




Report No.: SZEM180500461702

Page: 15 of 41

7.2 Duty Cycle





Report No.: SZEM180500461702

Page: 16 of 41





Report No.: SZEM180500461702

Page: 17 of 41

7.3 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

| Frequency | Limit (dBuV/m @3m) | Remark |
|-------------------|--------------------|---------------|
| 0400MH= 0400 FMH= | 94.0 | Average Value |
| 2400MHz-2483.5MHz | 114.0 | Peak Value |



Report No.: SZEM180500461702

Page: 18 of 41

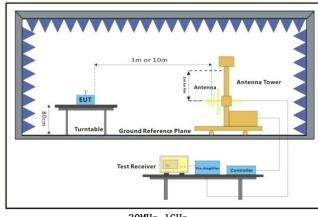
7.3.1 E.U.T. Operation

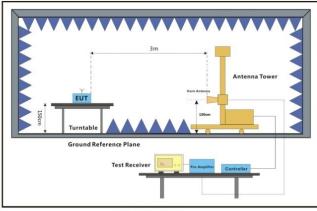
Operating Environment:

Temperature: Humidity: 53 % RH Atmospheric Pressure: 1010 mbar 23.8 °C

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.3.3 Measurement Procedure and Data

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

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

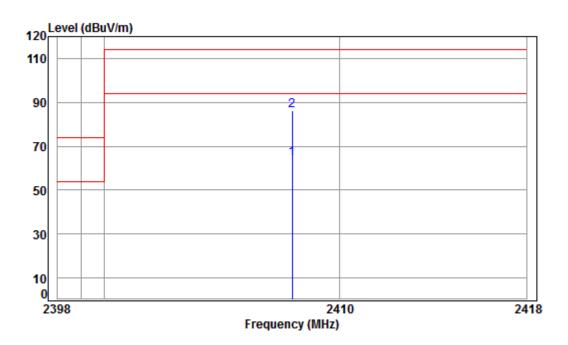


Report No.: SZEM180500461702

Page: 19 of 41

Dongle:

Mode:a; Polarization:Horizontal; Modulation:FSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04617CR

Mode : 2408 Field Strength

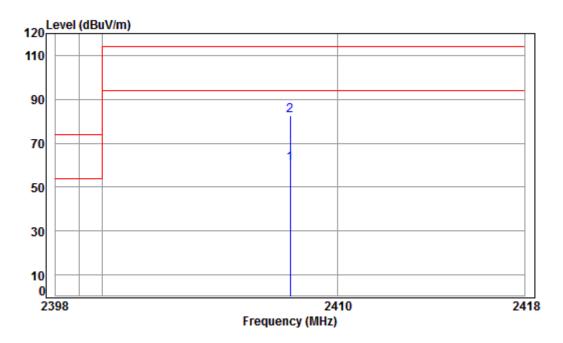
| Freq | | | Preamp Factor | | | | | |
|----------------------|----|------|------------------|------|--------|--------|----|---|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2408.000 2408.000 | | | | | | | | _ |



Report No.: SZEM180500461702

Page: 20 of 41

Mode:a; Polarization:Vertical; Modulation:FSK; ; Channel:Low



Condition: 3m VERTICAL Job No : 04617CR

Mode : 2408 Field Strength

Note : 2.4G Dongle

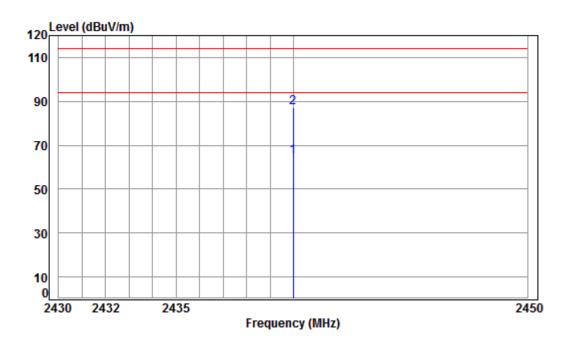
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dΒ dB dΒ 1 av 2408.000 5.50 28.55 37.65 64.22 60.62 94.00 -33.38 Average 5.50 28.55 37.65 86.31 82.71 114.00 -31.29 peak 2 pp 2408.000



Report No.: SZEM180500461702

Page: 21 of 41

Mode:a; Polarization:Horizontal; Modulation:FSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04617CR

Mode : 2440 Field Srtength

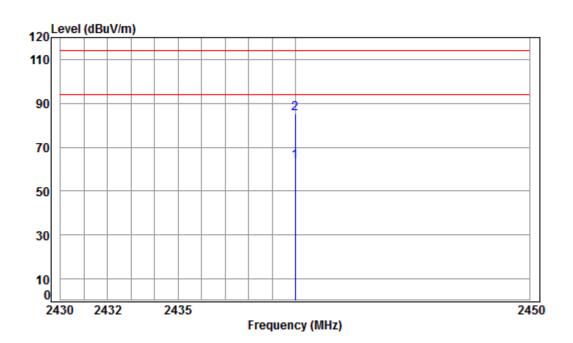
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|---------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 av | 2440.000 | 5.54 | 28.60 | 37.65 | 68.52 | 65.01 | 94.00 | -28.99 | Average |
| | 2440.000 | | | | | | | | _ |



Report No.: SZEM180500461702

Page: 22 of 41

Mode:a; Polarization:Vertical; Modulation:FSK; ; Channel:middle



Condition: 3m VERTICAL Job No : 04617CR

300 NO . 04017CK

Mode : 2440 Field Srtength

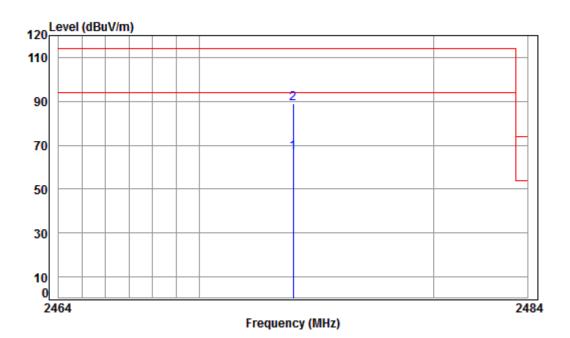
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|---------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 av | 2440.000 | 5.54 | 28.60 | 37.65 | 66.73 | 63.22 | 94.00 | -30.78 | Average |
| 2 pp | 2440.000 | 5.54 | 28.60 | 37.65 | 88.81 | 85.30 | 114.00 | -28.70 | Peak |



Report No.: SZEM180500461702

Page: 23 of 41

Mode:a; Polarization:Horizontal; Modulation:FSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 04617CR

Mode : 2474 Field Strength

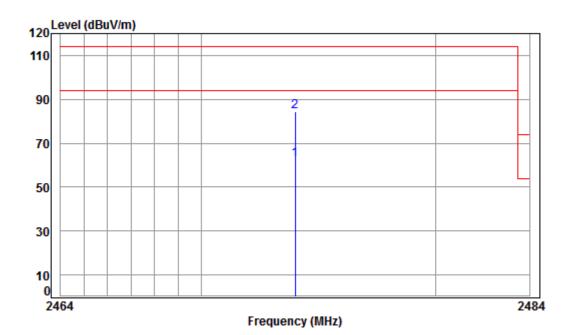
| Freq | | | Preamp Factor | | | | | |
|--------------------------------|----|------|------------------|------|--------|--------|----|---|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 av 2474.000 2 pp 2474.000 | | | | | | | | _ |



Report No.: SZEM180500461702

Page: 24 of 41

Mode:a; Polarization:Vertical; Modulation:FSK; ; Channel:High



Condition: 3m VERTICAL Job No : 04617CR

Mode : 2474 Field Strength

Note : 2.4G Dongle

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dΒ dB dΒ 1 av 2474.000 5.59 28.66 37.65 65.70 62.30 94.00 -31.70 Average 5.59 28.66 37.65 87.78 84.38 114.00 -29.62 peak 2 pp 2474.000



Report No.: SZEM180500461702

Page: 25 of 41

7.4 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

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 1GHz | 54.0 | Average Value |
| Above 1GHz | 74.0 | Peak Value |

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



Report No.: SZEM180500461702

Page: 26 of 41

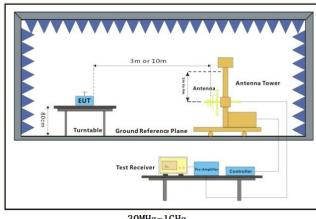
7.4.1 E.U.T. Operation

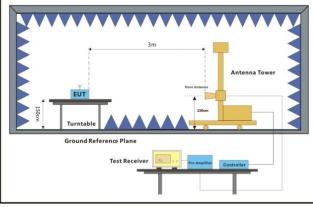
Operating Environment:

Temperature: Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.4.3 Measurement Procedure and Data

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

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

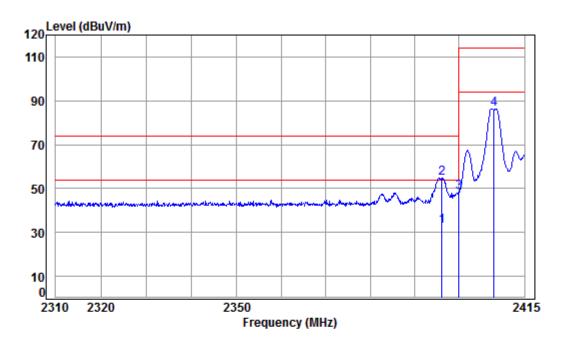


Report No.: SZEM180500461702

Page: 27 of 41

Dongle:

Mode:a; Polarization:Horizontal; Modulation:FSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04617CR

Mode : 2408 Band edge Note : 2.4G Dongle

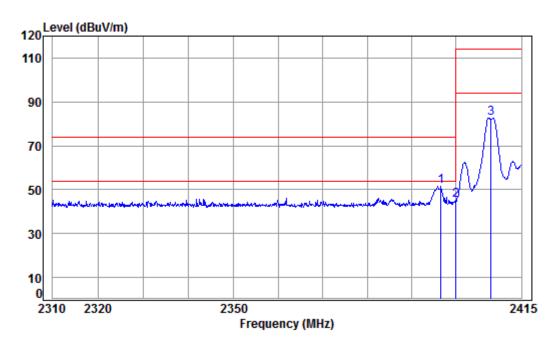
| | _ | | | | | | | | | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|---------|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | av | 2396.180 | 5.48 | 28.53 | 37.66 | 36.43 | 32.78 | 54.00 | -21.22 | Average |
| 2 | pp | 2396.180 | 5.48 | 28.53 | 37.66 | 58.58 | 54.93 | 74.00 | -19.07 | peak |
| 3 | | 2400.000 | 5.49 | 28.54 | 37.66 | 52.21 | 48.58 | 74.00 | -25.42 | peak |
| 4 | | 2408.000 | 5.50 | 28.55 | 37.65 | 90.05 | 86.45 | 114.00 | -27.55 | peak |



Report No.: SZEM180500461702

Page: 28 of 41

Mode:a; Polarization:Vertical; Modulation:FSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 04617CR

Mode : 2408 Band edge Note : 2.4G Dongle

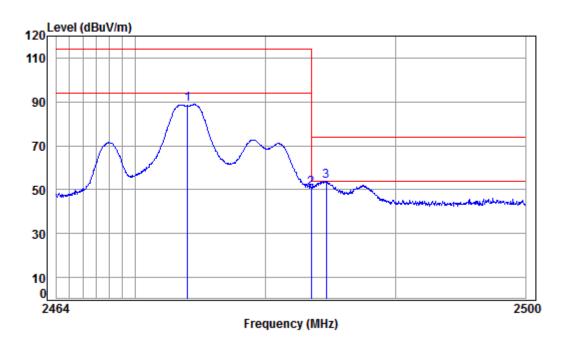
| | _ | | 2 DO.118 | | | | | | | | |
|---|----|----------|----------|--------|--------|-------|--------|--------|--------|--------|--|
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | | |
| 1 | pp | 2396.606 | 5.48 | 28.53 | 37.66 | 55.27 | 51.62 | 74.00 | -22.38 | peak | |
| 2 | | 2400.000 | 5.49 | 28.54 | 37.66 | 48.66 | 45.03 | 74.00 | -28.97 | peak | |
| 3 | | 2408.000 | 5.50 | 28.55 | 37.65 | 86.31 | 82.71 | 114.00 | -31.29 | peak | |
| | | | | | | | | | | | |



Report No.: SZEM180500461702

Page: 29 of 41

Mode:a; Polarization:Horizontal; Modulation:FSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 04617CR

Mode : 2474 Band edge Note : 2.4G Dongle

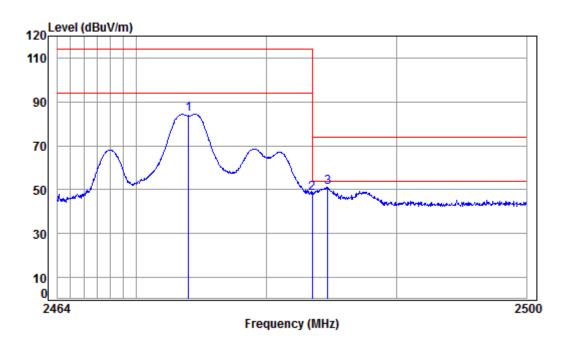
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|--------|--|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | |
| | | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | |
| | | | | | | | | | | | |
| 1 | | 2474.000 | 5.59 | 28.66 | 37.65 | 92.21 | 88.81 | 114.00 | -25.19 | peak | |
| 2 | | 2483.500 | 5.60 | 28.67 | 37.65 | 54.16 | 50.78 | 74.00 | -23.22 | peak | |
| 3 | pp | 2484.636 | 5.60 | 28.68 | 37.65 | 57.17 | 53.80 | 74.00 | -20.20 | peak | |



Report No.: SZEM180500461702

Page: 30 of 41

Mode:a; Polarization:Vertical; Modulation:FSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 04617CR

Mode : 2474 Band edge Note : 2.4G Dongle

| | | a Dong | | | | | | | |
|----|----------|-------------------------------------|---|---|--|--|--|---|---|
| | | 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 | |
| | | | | | | | | | |
| | 2474.000 | 5.59 | 28.66 | 37.65 | 87.78 | 84.38 | 114.00 | -29.62 | peak |
| | 2483.500 | 5.60 | 28.67 | 37.65 | 51.74 | 48.36 | 74.00 | -25.64 | peak |
| ор | 2484.672 | 5.60 | 28.68 | 37.65 | 54.35 | 50.98 | 74.00 | -23.02 | peak |
| | | Freq MHz 2474.000 2483.500 | Cable Loss MHz dB 2474.000 5.59 2483.500 5.60 | Cable Ant Loss Factor MHz dB dB/m 2474.000 5.59 28.66 2483.500 5.60 28.67 | Cable Ant Preamp Loss Factor Factor MHz dB dB/m dB 2474.000 5.59 28.66 37.65 2483.500 5.60 28.67 37.65 | Cable Ant Preamp Read Loss Factor Factor Level MHz dB dB/m dB dBuV 2474.000 5.59 28.66 37.65 87.78 2483.500 5.60 28.67 37.65 51.74 | Cable Ant Preamp Read Level Level MHz dB dB/m dB dBuV dBuV/m 2474.000 5.59 28.66 37.65 87.78 84.38 2483.500 5.60 28.67 37.65 51.74 48.36 | Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2474.000 5.59 28.66 37.65 87.78 84.38 114.00 2483.500 5.60 28.67 37.65 51.74 48.36 74.00 | Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 2474.000 5.59 28.66 37.65 87.78 84.38 114.00 -29.62 2483.500 5.60 28.67 37.65 51.74 48.36 74.00 -25.64 pp 2484.672 5.60 28.68 37.65 54.35 50.98 74.00 -23.02 |



Report No.: SZEM180500461702

Page: 31 of 41

7.5 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength (microvolts/meter) | Limit (dBuV/m) | Detector | Measurement Distance (meters) |
|----------------|-----------------------------------|-------------------|----------|-------------------------------|
| 0.009-0.490 | 2400/F(kHz) | - | - | 300 |
| 0.490-1.705 | 24000/F(kHz) | - | - | 30 |
| 1.705-30 | 30 | - | - | 30 |
| 30-88 | 100 | 40.0 | QP | 3 |
| 88-216 | 150 | 43.5 | QP | 3 |
| 216-960 | 200 | 46.0 | QP | 3 |
| 960-1000 | 500 | 54.0 | QP | 3 |
| Above 1000 | 500 | 54.0 | AV | 3 |



Report No.: SZEM180500461702

Page: 32 of 41

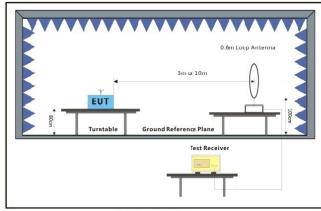
7.5.1 E.U.T. Operation

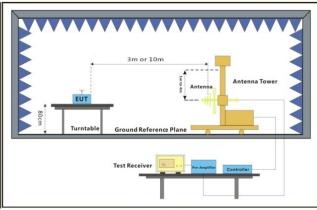
Operating Environment:

Temperature: 23.8 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

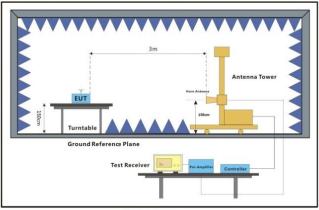
7.5.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz

7.5.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



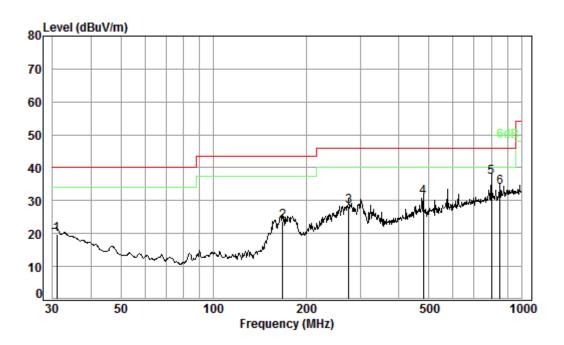
Report No.: SZEM180500461702

Page: 33 of 41

30MHz~1GHz

QP value:

Mode:a; Polarization:Horizontal;



Condition: 3m HORIZONTAL

Job No. : 04617CR

Test mode: a

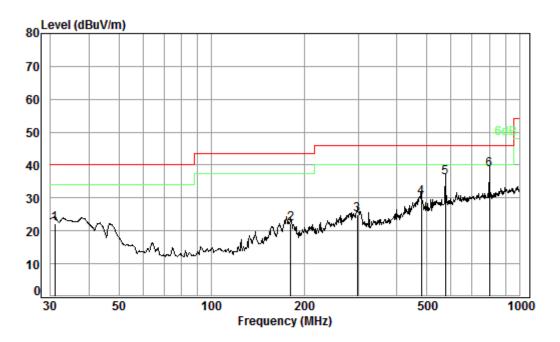
| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| _ | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| | | | | | | | | |
| 1 | 30.96 | 0.60 | 21.95 | 27.35 | 24.61 | 19.81 | 40.00 | -20.19 |
| 2 | 167.82 | 1.35 | 15.66 | 26.82 | 33.62 | 23.81 | 43.50 | -19.69 |
| 3 | 275.16 | 1.79 | 18.87 | 26.46 | 34.12 | 28.32 | 46.00 | -17.68 |
| 4 | 480.53 | 2.53 | 24.21 | 27.60 | 31.78 | 30.92 | 46.00 | -15.08 |
| 5 pp | 798.98 | 3.20 | 28.49 | 27.30 | 32.59 | 36.98 | 46.00 | -9.02 |
| 6 | 851.04 | 3.41 | 29.18 | 27.02 | 28.57 | 34.14 | 46.00 | -11.86 |



Report No.: SZEM180500461702

Page: 34 of 41

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 04617CR Test mode: a

> Ant Preamp Cable Read Limit 0ver Loss Factor Factor Level Line Limit Freq Level MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

| 1 | 30.96 | 0.60 | 21.95 | 27.35 | 27.09 | 22.29 | 40.00 - | -17.71 |
|------|--------|------|-------|-------|-------|-------|---------|--------|
| 2 | 180.65 | 1.37 | 15.92 | 26.77 | 31.60 | 22.12 | 43.50 - | -21.38 |
| 3 | 297.22 | 1.89 | 19.49 | 26.41 | 30.08 | 25.05 | 46.00 - | -20.95 |
| 4 | 480.53 | 2.53 | 24.21 | 27.60 | 31.07 | 30.21 | 46.00 - | -15.79 |
| 5 | 574.63 | 2.68 | 26.13 | 27.58 | 35.07 | 36.30 | 46.00 | -9.70 |
| 6 pp | 798.98 | 3.20 | 28.49 | 27.30 | 34.24 | 38.63 | 46.00 | -7.37 |



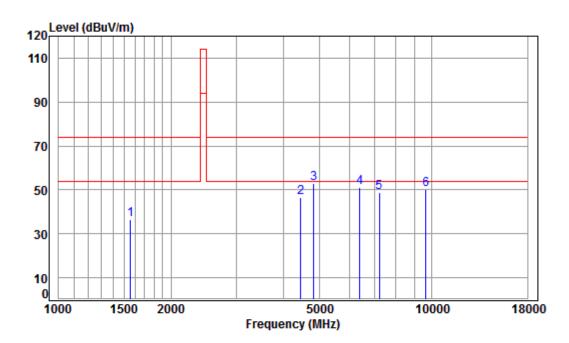
Report No.: SZEM180500461702

Page: 35 of 41

Above 1GHz

Dongle:

Mode:a; Polarization:Horizontal; Modulation:FSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 04617CR

Mode : 2408 TX RSE Note : 2.4G Dongle

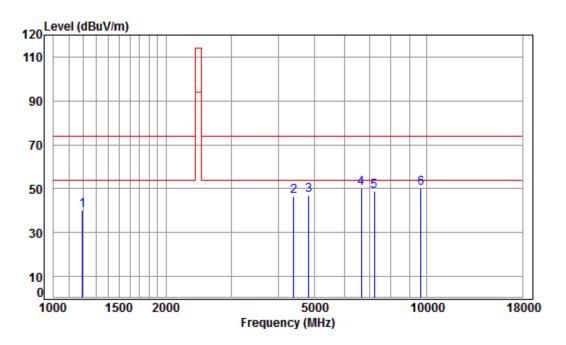
| | | . 214d bongie | | | | | | | | | |
|------|----------|---------------|--------|--------|-------|--------|--------|--------|--------|--|--|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | | | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | | |
| 1 | 1556.169 | 5.41 | 26.06 | 41.44 | 46.42 | 36.45 | 74.00 | -37.55 | peak | | |
| 2 | 4456.315 | 7.51 | 33.53 | 42.41 | 47.92 | 46.55 | 74.00 | -27.45 | peak | | |
| 3 pp | 4816.000 | 7.90 | 33.99 | 42.47 | 53.34 | 52.76 | 74.00 | -21.24 | peak | | |
| 4 | 6414.167 | 11.38 | 35.52 | 41.28 | 45.42 | 51.04 | 74.00 | -22.96 | peak | | |
| 5 | 7224.000 | 10.07 | 36.08 | 40.70 | 43.53 | 48.98 | 74.00 | -25.02 | peak | | |
| 6 | 9632.000 | 10.76 | 37.68 | 37.70 | 39.39 | 50.13 | 74.00 | -23.87 | peak | | |



Report No.: SZEM180500461702

Page: 36 of 41

Mode:a; Polarization:Vertical; Modulation:FSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 04617CR

Mode : 2408 TX RSE Note : 2.4G Dongle

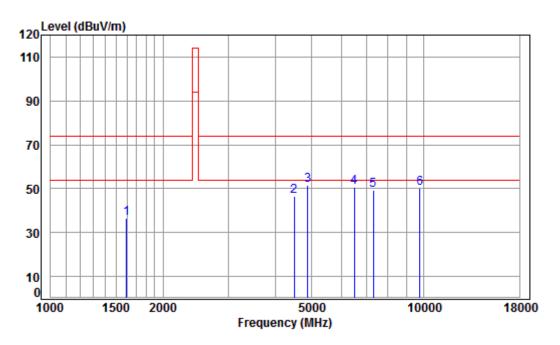
| | | a bomb | | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1196.264 | 4.40 | 24.57 | 41.18 | 52.29 | 40.08 | 74.00 | -33.92 | peak |
| 2 | 4392.376 | 7.44 | 33.42 | 42.40 | 47.96 | 46.42 | 74.00 | -27.58 | peak |
| 3 | 4816.000 | 7.90 | 33.99 | 42.47 | 47.69 | 47.11 | 74.00 | -26.89 | peak |
| 4 pp | 6659.763 | 11.08 | 35.70 | 41.10 | 44.63 | 50.31 | 74.00 | -23.69 | peak |
| 5 | 7224.000 | 10.07 | 36.08 | 40.70 | 43.40 | 48.85 | 74.00 | -25.15 | peak |
| 6 | 9632.000 | 10.76 | 37.68 | 37.70 | 39.43 | 50.17 | 74.00 | -23.83 | peak |



Report No.: SZEM180500461702

Page: 37 of 41

Mode:a; Polarization:Horizontal; Modulation:FSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 04617CR

Mode : 2440 TX RSE Note : 2.4G Dongle

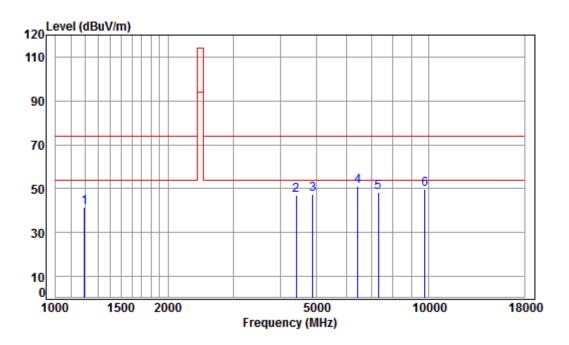
| 000 | | a bomb | | | | | | | |
|------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1597.181 | 5.35 | 26.24 | 41.47 | 46.31 | 36.43 | 74.00 | -37.57 | peak |
| 2 | 4495.125 | 7.55 | 33.59 | 42.42 | 47.74 | 46.46 | 74.00 | -27.54 | peak |
| 3 рр | 4880.000 | 7.97 | 34.06 | 42.48 | 51.87 | 51.42 | 74.00 | -22.58 | peak |
| 4 | 6507.536 | 11.52 | 35.60 | 41.21 | 44.85 | 50.76 | 74.00 | -23.24 | peak |
| 5 | 7320.000 | 10.05 | 36.16 | 40.63 | 43.86 | 49.44 | 74.00 | -24.56 | peak |
| 6 | 9760.000 | 10.82 | 37.76 | 37.53 | 39.33 | 50.38 | 74.00 | -23.62 | peak |



Report No.: SZEM180500461702

Page: 38 of 41

Mode:a; Polarization: Vertical; Modulation: FSK; ; Channel: middle



Condition: 3m VERTICAL

Job No : 04617CR Mode : 2440 TX RS

Mode : 2440 TX RSE Note : 2.4G Dongle

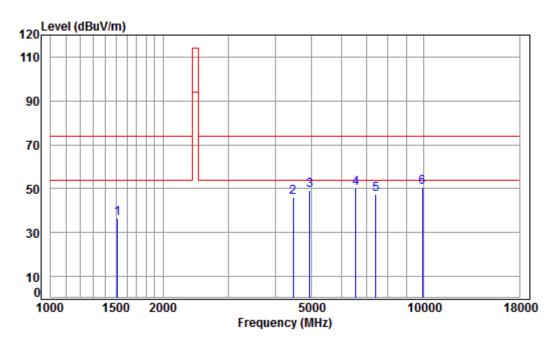
| | | 2 208 | | | | | | | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1196.264 | 4.40 | 24.57 | 41.18 | 53.75 | 41.54 | 74.00 | -32.46 | peak |
| 2 | 4405.090 | 7.46 | 33.44 | 42.40 | 48.34 | 46.84 | 74.00 | -27.16 | peak |
| 3 | 4880.000 | 7.97 | 34.06 | 42.48 | 48.06 | 47.61 | 74.00 | -26.39 | peak |
| 4 pp | 6451.353 | 11.45 | 35.55 | 41.25 | 45.24 | 50.99 | 74.00 | -23.01 | peak |
| 5 | 7320.000 | 10.05 | 36.16 | 40.63 | 42.69 | 48.27 | 74.00 | -25.73 | peak |
| 6 | 9760.000 | 10.82 | 37.76 | 37.53 | 38.80 | 49.85 | 74.00 | -24.15 | peak |



Report No.: SZEM180500461702

Page: 39 of 41

Mode:a; Polarization:Horizontal; Modulation:FSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 04617CR

Mode : 2474 TX RSE Note : 2.4G Dongle

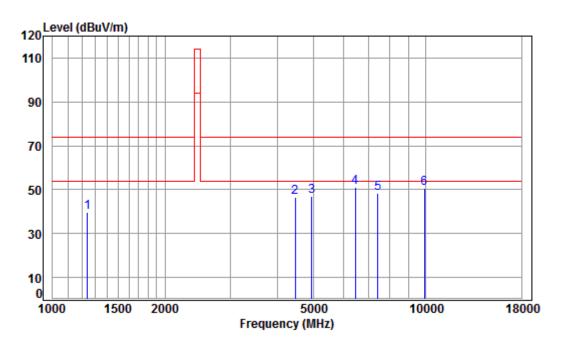
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 1511.833 | 5.46 | 25.85 | 41.41 | 46.69 | 36.59 | 74.00 | -37.41 | peak |
| 2 | 4469.214 | 7.53 | 33.55 | 42.41 | 47.25 | 45.92 | 74.00 | -28.08 | peak |
| 3 | 4948.000 | 8.04 | 34.14 | 42.49 | 49.46 | 49.15 | 74.00 | -24.85 | peak |
| 4 | 6564.209 | 11.35 | 35.64 | 41.17 | 44.49 | 50.31 | 74.00 | -23.69 | peak |
| 5 | 7422.000 | 10.02 | 36.24 | 40.57 | 41.77 | 47.46 | 74.00 | -26.54 | peak |
| 6 pp | 9896.000 | 10.89 | 37.84 | 37.34 | 39.32 | 50.71 | 74.00 | -23.29 | peak |



Report No.: SZEM180500461702

Page: 40 of 41

Mode:a; Polarization:Vertical; Modulation:FSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 04617CR Mode : 2474 TX RSE

Mode : 2474 TX RSE Note : 2.4G Dongle

| | | 9 008 | | | | | | | |
|-----|------------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | 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 | 1238.483 | 4 57 | 24 76 | 41 21 | 51 61 | 39 73 | 74 00 | -34 27 | neak |
| _ | 4469.214 | | | | | | | | • |
| 3 | 4948.000 | | | | | | | | • |
| 4 p | p 6470.026 | | | | | | | | • |
| | 7422.000 | | | | | | | | • |
| 6 | 9896.000 | 10.89 | 37.84 | 37.34 | 39.41 | 50.80 | 74.00 | -23.20 | peak |



Report No.: SZEM180500461702

Page: 41 of 41

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 18GHz 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.

- End of the Report -