

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

Product Name: Tablet

Brand Name: Aures Technologies

Model No.: Swing Cherry Trial

Model Difference: N/A

FCC ID: XHM-PB55D41

Report No.: E2/2018/80088

Issue Date: Sep. 19, 2018

FCC Rule Part: §15.209

Prepared for Aures Technologies
24 bis rue Leonard de Vinci, 91090 Lisses |
France

Prepared by SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan
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VERIFICATION OF COMPLIANCE

Applicant: Aures Technologies
24 bis rue Leonard de Vinci, 91090 Lisses | France

Product Name: Tablet

Brand Name: Aures Technologies

Model No.: Swing Cherry Trial

Model Difference: N/A

FCC ID: XHM-PB55D41

File Number: E2/2018/80088

Date of test: Sep.18, 2018

Date of EUT Received: Aug. 27, 2018

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd., Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:

Vito Pei

Date:

Sep. 19, 2018

Vito Pei / Sr. Engineer

Prepared By:

Elle Chang

Date:

Sep. 19, 2018

Elle Chang / Clerk

Approved By

Blue Yang

Date:

Sep. 19, 2018

Blue Yang / Supervisor

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Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|---------------|
| E2/2018/80088 | Rev.00 | Initial creation of document | Sep. 19, 2018 |
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1. GENERAL INFORMATION

1.1. Product Description

| | | |
|-------------------|--|--|
| Product Name: | Tablet | |
| Brand Name: | Aures Technologies | |
| Model No.: | Swing Cherry Trial | |
| Model Difference: | N/A | |
| Hardware Version: | V3.0 | |
| Software Version | V1.0 | |
| Power Supply: | 3.7V / 3.8V from Rechargeable Li-ion Battery | |
| | Battery: | 1. Model No.: BA110000, Supplier: N/A 2. Model No.: BA840000, Supplier: Getac |

Transmitter:

| | |
|---------------------|--------------------|
| Operating Frequency | 125kHz |
| Transmit Power | < 105dBuV/m at 3m. |
| Number of Channels | 1 |
| Operating Mode | Point-to-Point |

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1.2. Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.209

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.
3. The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63.10:2013.

1.3. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)
FCC Registration Numbers are: 735305

1.4. Special Accessories

There are no special accessories used while test was conducted.

1.5. Equipment Modifications

There was no modification incorporated into the EUT.

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2. System Test Configuration

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3. Test Procedure

2.3.1 Conducted Emissions (Not apply in the report)

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4. Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

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| Frequency range MHz | Limits dB (uV) | |
|------------------------|-------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

(2) Radiated Emission

- (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:
- (b) In the emission table above, the tighter limit applies at the band edges.
- (c) The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission. For intentional radiators which operate under the provisions of other Sections within this Part and which are required to reduce their unwanted emissions to the limits specified in this table, the limits in this table are based on the frequency of the unwanted emission and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.

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

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| Frequency (MHz) | Field strength $\mu\text{V}/\text{m}$ | Distance (m) | Field strength at 3m $\text{dB}\mu\text{V}/\text{m}$ |
|-----------------|---------------------------------------|--------------|--|
| 0.009-0.490 | 2400/F(KHz) | 300 | |
| 0.490-1.705 | 24000/F(KHz) | 30 | |
| 1.705-30 | 30 | 30 | 69.54 |
| 30-88 | 100 | 3 | 40 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |

Limit Table:

| Frequency kHz | Distance m | Limit at 300m $\text{dB}\mu\text{V}/\text{m}$ | Limit at 30m $\text{dB}\mu\text{V}/\text{m}$ | Distance Factor dB | Limit $\text{dB}\mu\text{V}/\text{m}$ at |
|------------------|---------------|---|---|--------------------------|---|
| 125 | 300 | 25.67 | --- | 80 | 105.67 |
| 250 | 300 | 19.65 | --- | 80 | 99.65 |
| 375 | 300 | 16.12 | --- | 80 | 96.12 |
| 500 | 30 | --- | 33.62 | 40 | 73.62 |
| 625 | 30 | --- | 31.69 | 40 | 71.69 |
| 750 | 30 | --- | 30.10 | 40 | 70.10 |
| 875 | 30 | --- | 28.76 | 40 | 68.76 |
| 1000 | 30 | --- | 27.60 | 40 | 67.60 |
| 1125 | 30 | --- | 26.58 | 40 | 66.58 |
| 1250 | 30 | --- | 25.67 | 40 | 65.67 |

Limit Calculation and transfer to 1m test distance:

If the frequency between 9 – 490kHz,
Limit = $20\log(2400/f(\text{KHz})) + 40\log(300/1)$

If the frequency between 490kHz – 1.705MHz
Limit = $20\log(24000/f(\text{KHz})) + 40\log(30/1)$

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2.5. Configuration of Tested System

Fig. 2-1 Emission test set up configuration

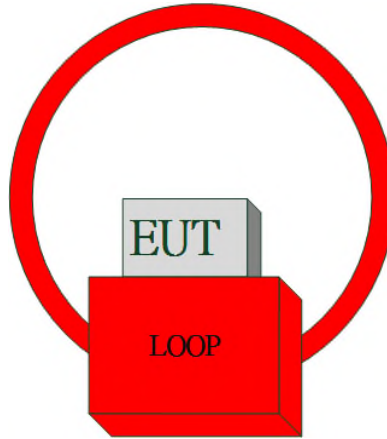
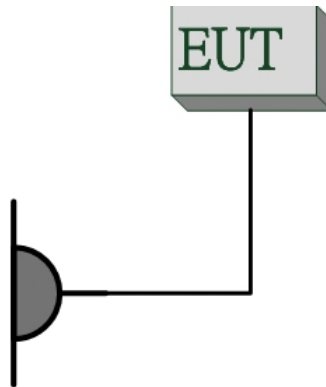


Fig. 2-2 Conduction test set up configuration



| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|--------------------|------------|---------------|------------|
| 1. | Test Software | N/A | N/A | N/A | N/A | N/A |
| 2. | DC Power Supply | Agilent | E3634A | MY53180030 | N/A | Unshielded |

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3. Summary of Test Results

| FCC Rules | Description of Test | Result |
|-----------|----------------------------------|-----------|
| §15.207 | AC Power Line Conducted Emission | Compliant |
| §15.209 | Radiated Emission | Compliant |

4. Description of test modes

The EUT has been tested under continuous operating condition. The Frequency 125kHz was chosen for testing.

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5. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|----------------------------------|-----------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

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

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6. Conducted Emissions Test

6.1. Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|--------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| LISN | TESEQ | NNB 51 | 36076 | 2018/02/14 | 2019/02/13 |
| EMI Test Receiver | R&S | ESCI | 101300 | 2017/11/02 | 2018/11/01 |

6.3. EUT Setup:

- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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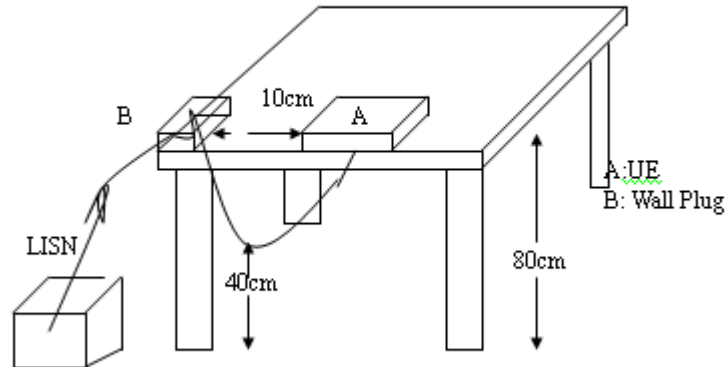
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6.4. Test SET-UP (Block Diagram of Configuration)



6.5. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

6.6. Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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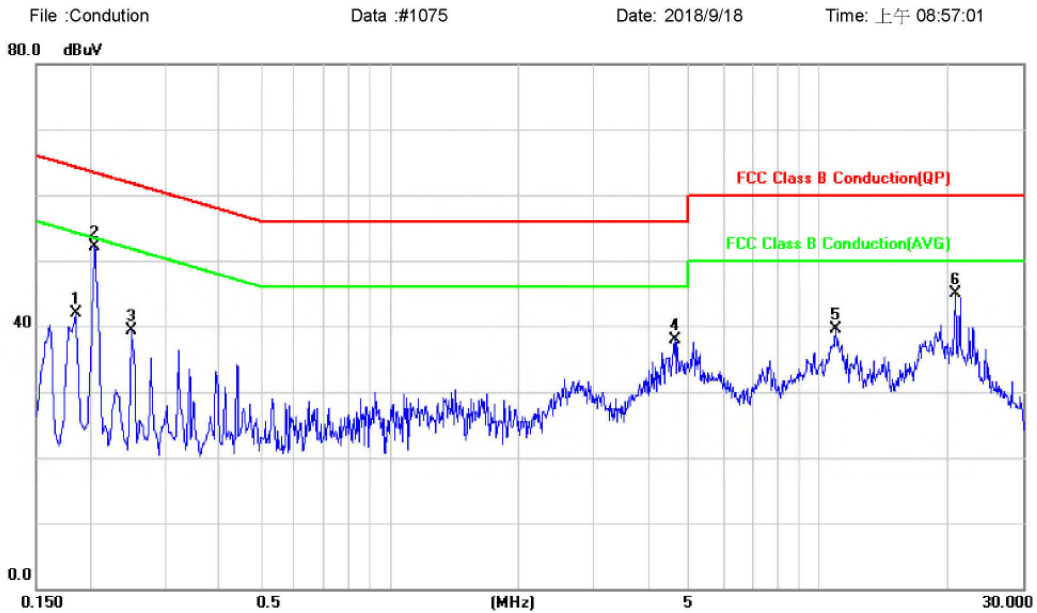
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|----------------|----------|------|
| Operation Mode: | Operation Mode | Test by: | Aken |
|-----------------|----------------|----------|------|

| | | |
|-----------------------------------|---------------------|--------------------|
| Site : Conduction Room | Phase: L1 | Temperature: 23 °C |
| Limit: FCC Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 64 % |
| Mode: | | |
| Note: | | |

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1860 | 22.18 | 19.71 | 41.89 | 64.21 | -22.32 | peak | |
| 2 | * | 0.2060 | 32.37 | 19.75 | 52.12 | 63.37 | -11.25 | peak | |
| 3 | | 0.2500 | 19.55 | 19.82 | 39.37 | 61.76 | -22.39 | peak | |
| 4 | | 4.6300 | 17.75 | 20.06 | 37.81 | 56.00 | -18.19 | peak | |
| 5 | | 10.9940 | 19.53 | 19.96 | 39.49 | 60.00 | -20.51 | peak | |
| 6 | | 20.8820 | 24.83 | 20.04 | 44.87 | 60.00 | -15.13 | peak | |

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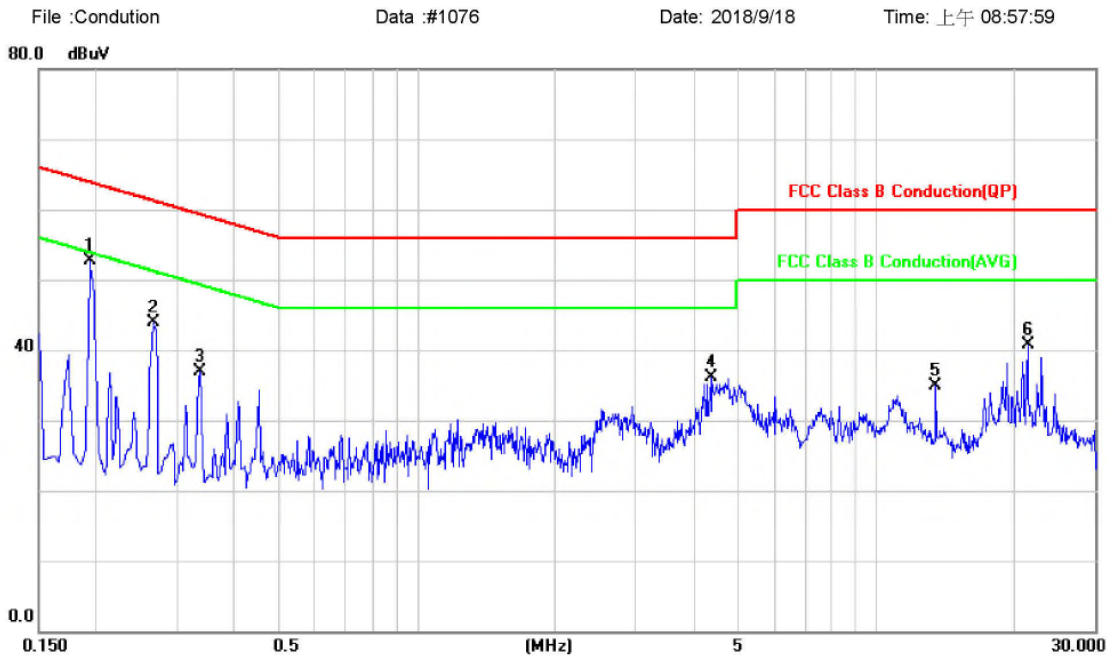
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7.

| | | |
|-----------------------------------|---------------------|--------------------|
| Site : Conduction Room | Phase: N | Temperature: 23 °C |
| Limit: FCC Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 64 % |
| Mode: | | |
| Note: | | |

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.1940 | 32.95 | 19.71 | 52.66 | 63.86 | -11.20 | peak | |
| 2 | | 0.2660 | 24.05 | 19.83 | 43.88 | 61.24 | -17.36 | peak | |
| 3 | | 0.3380 | 16.96 | 19.95 | 36.91 | 59.25 | -22.34 | peak | |
| 4 | | 4.3900 | 16.04 | 20.09 | 36.13 | 56.00 | -19.87 | peak | |
| 5 | | 13.5380 | 14.92 | 19.98 | 34.90 | 60.00 | -25.10 | peak | |
| 6 | | 21.4180 | 20.68 | 20.09 | 40.77 | 60.00 | -19.23 | peak | |

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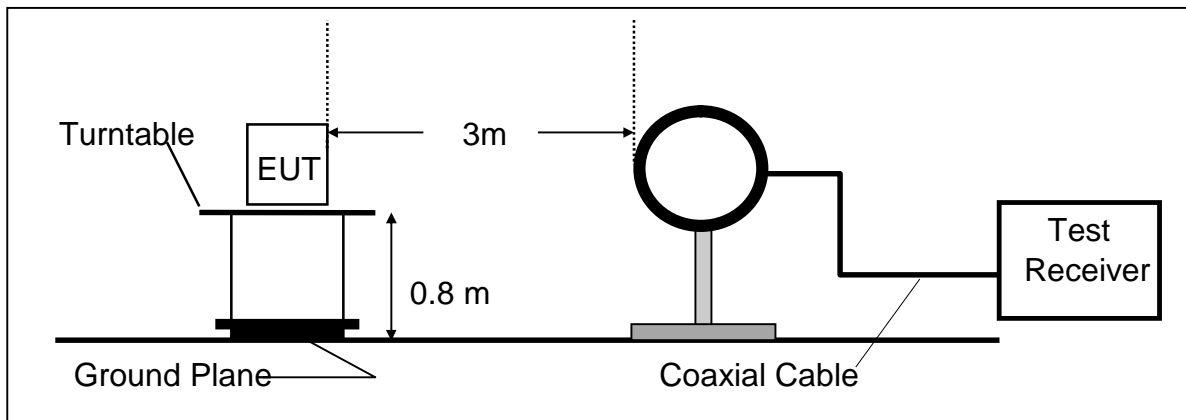
8. Radiated Emission Test

8.1. Measurement Procedure

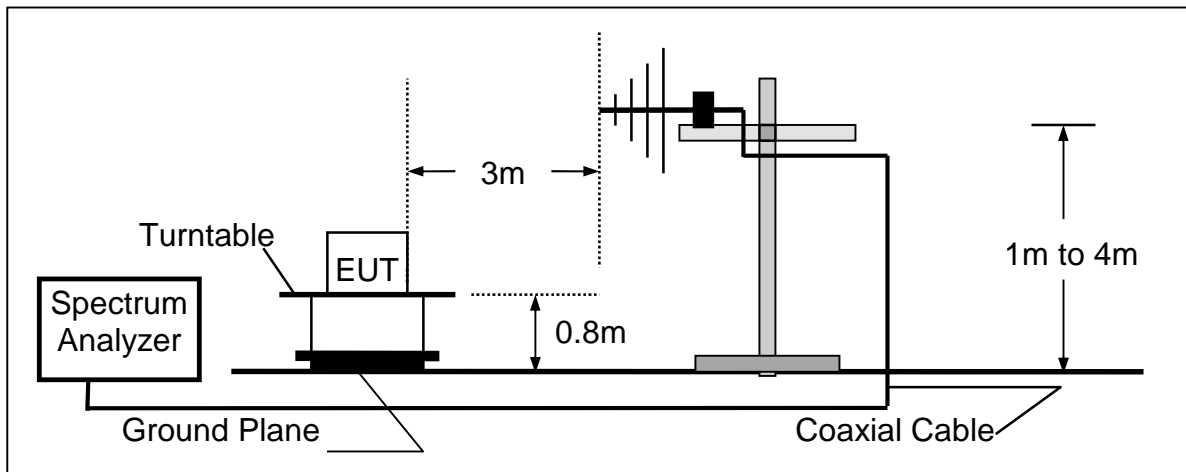
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

8.2. Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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8.3. Measurement Equipment Used:

| 966 Chamber | | | | | |
|-------------------|-----------------|---------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Broadband Antenna | SCHWAZBECK | VULB 9168 | 9168-617 | 2017/10/27 | 2018/10/26 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 2017/09/26 | 2018/09/25 |
| 3m Site NSA | SGS | 966 chamber D | N/A | 2018/07/06 | 2019/07/05 |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 2018/04/11 | 2019/04/10 |
| Pre-Amplifier | EMC Instruments | EMC9135 | 980234 | 2017/12/26 | 2018/12/25 |
| Coaxial Cable | Huber Suhner | RG 214/U | W22.03 | 2017/12/26 | 2018/12/25 |

8.4. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

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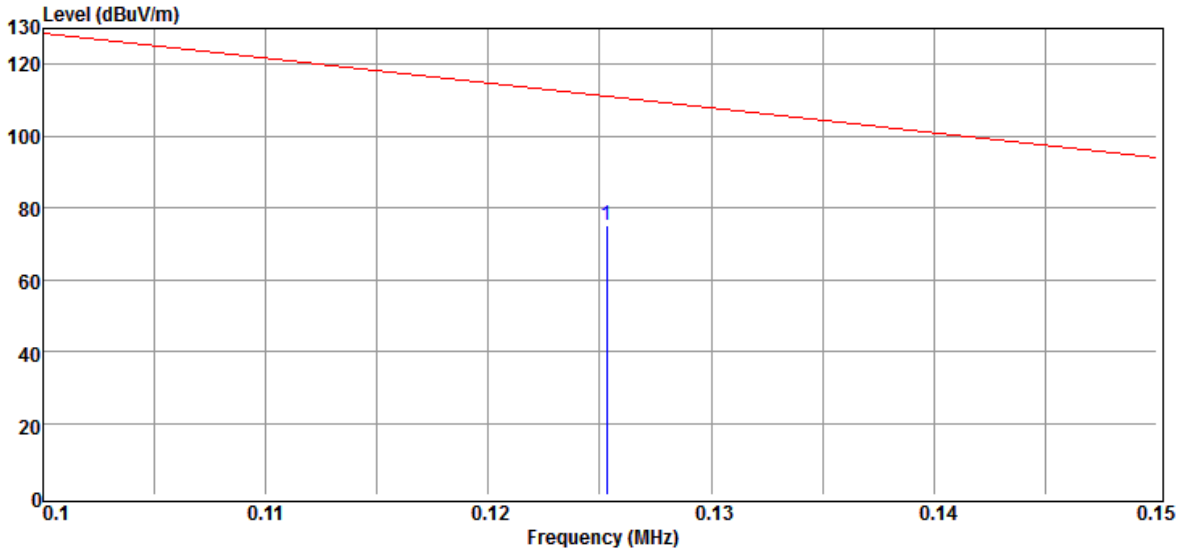
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8.5. Measurement Result

| | | | |
|----------------|--------------|--------------|-------------|
| Operation Mode | :WPC | Test Date | :2018-09-17 |
| Test Mode | :Main CH Mid | Temp./Humi. | :25/60 |
| EUT Pol | :E1 Plan | Antenna Pol. | :VERTICAL |
| Test Channel | :125 KHz | Engineer | :Jerry |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|-------|----------|---------------|--------|--------|--------|--------|
| MHz | Mode | Reading Level | | FS | @3m | |
| | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 0.13 | Peak | 63.34 | 11.89 | 75.23 | 120.11 | -44.88 |

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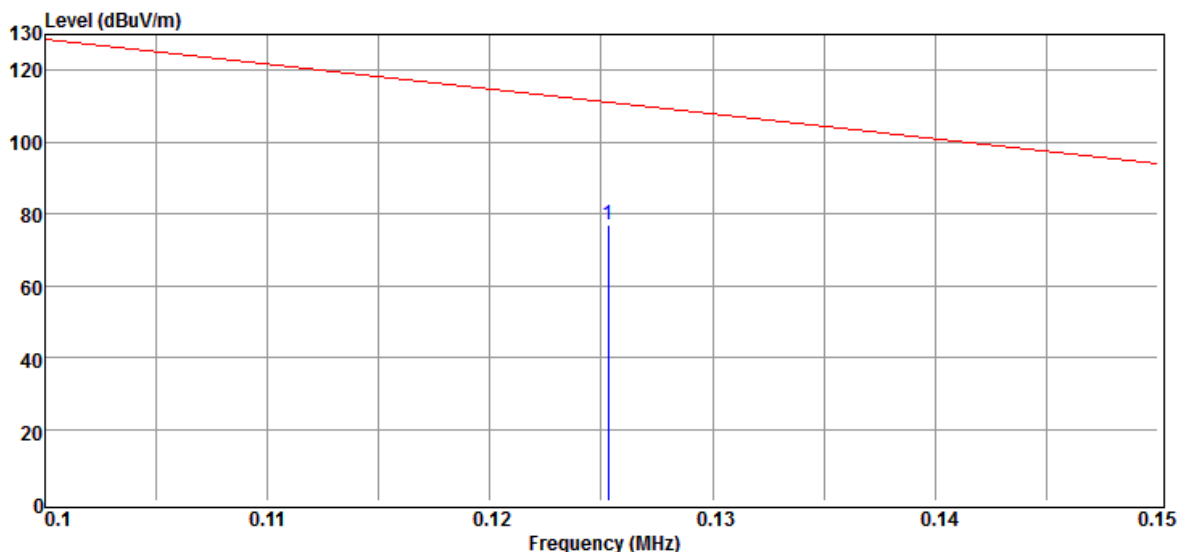
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| | | | |
|----------------|--------------|--------------|-------------|
| Operation Mode | :WPC | Test Date | :2018-09-17 |
| Test Mode | :Main CH Mid | Temp./Humi. | :25/60 |
| EUT Pol | :E1 Plan | Antenna Pol. | :HORIZONTAL |
| Test Channel | :125 KHz | Engineer | :Jerry |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 0.13 | Peak | 64.87 | 11.89 | 76.76 | 120.11 | -43.35 |

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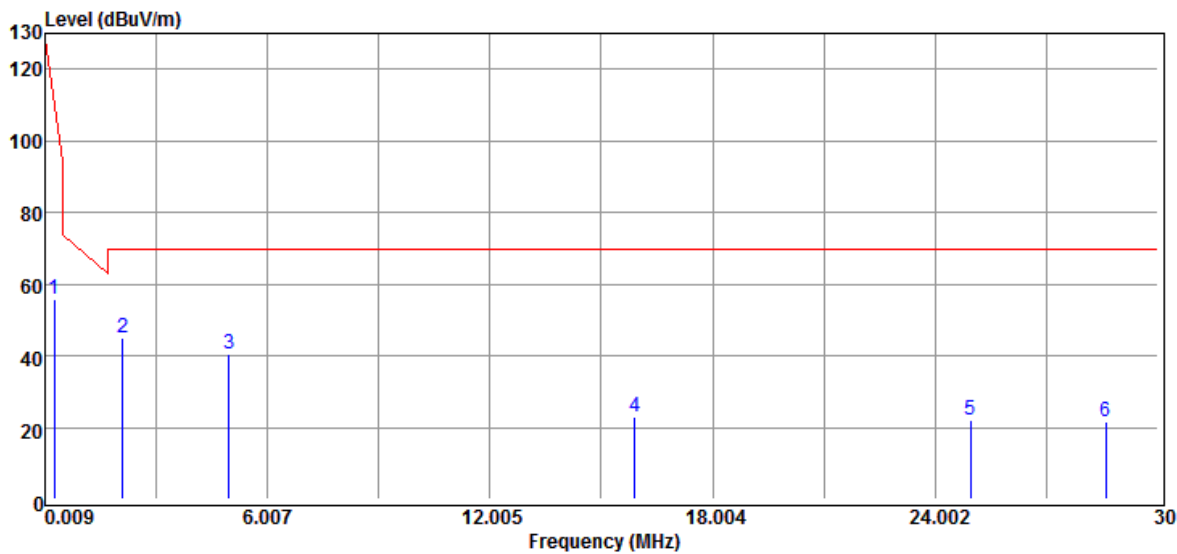
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(10MHz~30MHz)

| | | | |
|----------------|------------|--------------|-------------|
| Operation Mode | :WPC | Test Date | :2018-09-17 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :25/60 |
| EUT Pol | :E1 Plan | Antenna Pol. | :VERTICAL |
| Test Channel | :125 KHz | Engineer | :Jerry |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 0.25 | Peak | 43.49 | 12.28 | 55.77 | 111.11 | -55.34 |
| 2.11 | Peak | 33.27 | 11.55 | 44.82 | 69.54 | -24.72 |
| 4.96 | Peak | 29.43 | 11.14 | 40.57 | 69.54 | -28.97 |
| 15.90 | Peak | 11.63 | 11.44 | 23.07 | 69.54 | -46.47 |
| 24.96 | Peak | 12.13 | 10.11 | 22.24 | 69.54 | -47.30 |
| 28.59 | Peak | 12.30 | 9.39 | 21.69 | 69.54 | -47.85 |

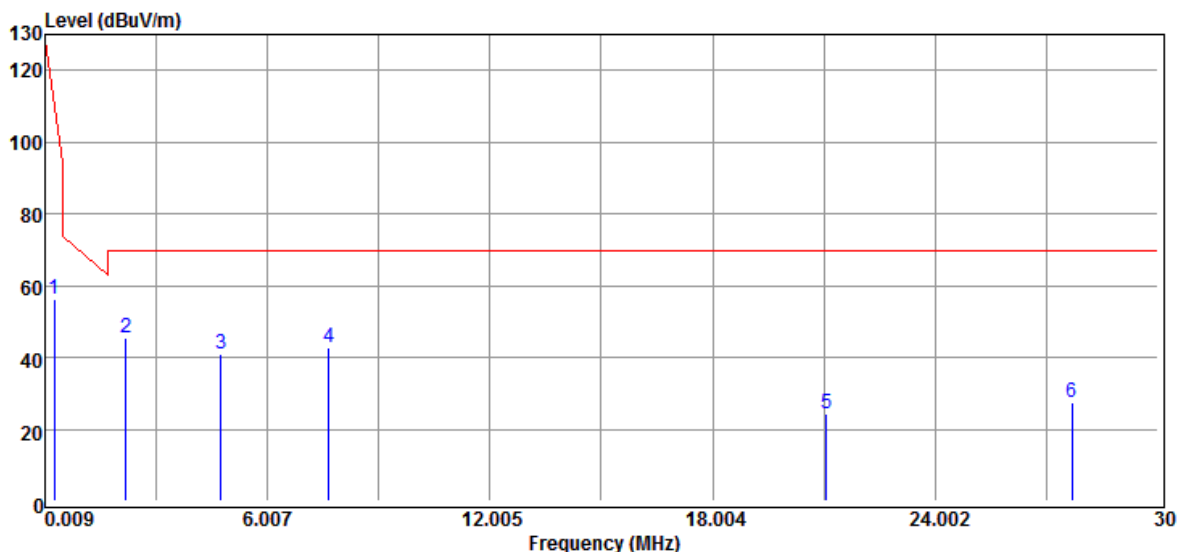
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| | | | |
|----------------|------------|--------------|-------------|
| Operation Mode | :WPC | Test Date | :2018-09-17 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :25/60 |
| EUT Pol | :E1 Plan | Antenna Pol. | :HORIZONTAL |
| Test Channel | :125 KHz | Engineer | :Jerry |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 0.25 | Peak | 43.85 | 12.28 | 56.13 | 111.11 | -54.98 |
| 2.20 | Peak | 34.05 | 11.49 | 45.54 | 69.54 | -24.00 |
| 4.75 | Peak | 30.01 | 11.13 | 41.14 | 69.54 | -28.40 |
| 7.66 | Peak | 31.30 | 11.54 | 42.84 | 69.54 | -26.70 |
| 21.06 | Peak | 13.27 | 11.00 | 24.27 | 69.54 | -45.27 |
| 27.69 | Peak | 18.09 | 9.56 | 27.65 | 69.54 | -41.89 |

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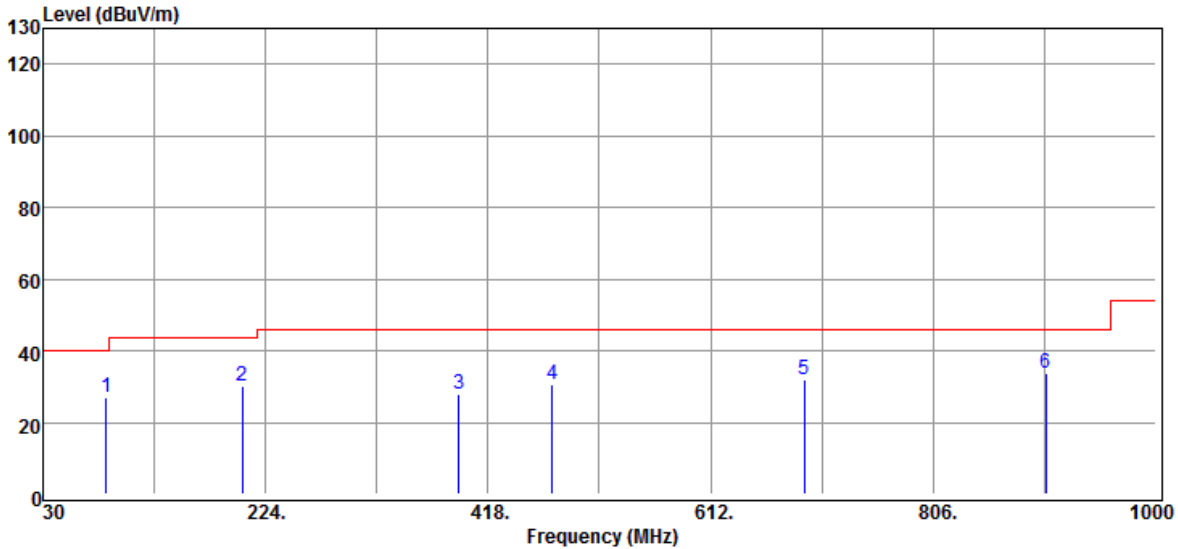
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(30MHz~1GHz)

| | | | |
|----------------|------------|--------------|-------------|
| Operation Mode | :NFC | Test Date | :2018-09-17 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :25/60 |
| EUT Pol | :E1 Plan | Antenna Pol. | :VERTICAL |
| Test Channel | :13.56 MHz | Engineer | :Jerry |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 85.29 | Peak | 49.42 | -22.27 | 27.15 | 40.00 | -12.85 |
| 203.63 | Peak | 48.69 | -18.66 | 30.03 | 43.50 | -13.47 |
| 392.78 | Peak | 41.06 | -12.98 | 28.08 | 46.00 | -17.92 |
| 474.26 | Peak | 41.87 | -11.22 | 30.65 | 46.00 | -15.35 |
| 693.48 | Peak | 39.46 | -7.49 | 31.97 | 46.00 | -14.03 |
| 903.97 | Peak | 38.94 | -5.22 | 33.72 | 46.00 | -12.28 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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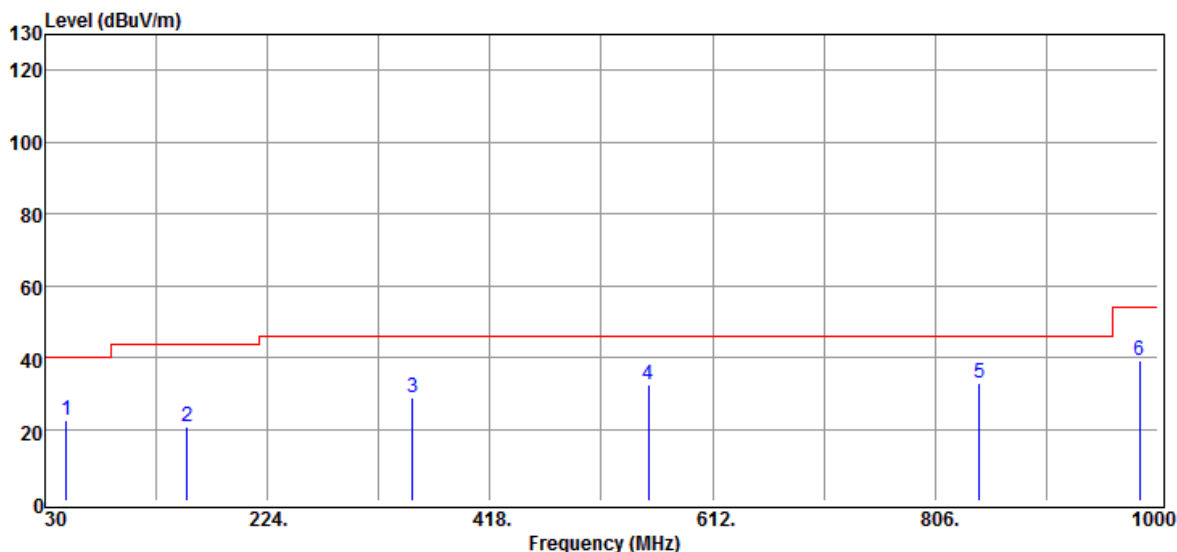
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f (886-2) 2298-0488

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| | | | |
|----------------|------------|--------------|-------------|
| Operation Mode | :NFC | Test Date | :2018-09-17 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :25/60 |
| EUT Pol | :E1 Plan | Antenna Pol. | :HORIZONTAL |
| Test Channel | :13.56 MHz | Engineer | :Jerry |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 48.43 | Peak | 39.35 | -16.93 | 22.42 | 40.00 | -17.58 |
| 154.16 | Peak | 36.94 | -16.17 | 20.77 | 43.50 | -22.73 |
| 350.10 | Peak | 42.89 | -13.95 | 28.94 | 46.00 | -17.06 |
| 555.74 | Peak | 42.52 | -10.30 | 32.22 | 46.00 | -13.78 |
| 844.80 | Peak | 38.87 | -6.02 | 32.85 | 46.00 | -13.15 |
| 984.48 | Peak | 42.64 | -3.65 | 38.99 | 54.00 | -15.01 |

~ End of Report ~

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