

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: SmartSense Staff Tag

Brand Name: SmartSense Staff Tag

Model No.: STG-821(919), STG-821(925)

Model Difference: Different in frequency (919.8MHz & 925MHz)

FCC ID: VPE-STG-821

Report No.: E2/2016/90061

Issue Date: Nov. 15, 2016

FCC Rule Part: §15.209

Prepared for CADI SCIENTIC PTE LTD
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SGS Taiwan Ltd.

Prepared by Electronics & Communication Laboratory
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VERIFICATION OF COMPLIANCE

Applicant: CADI SCIENTIC PTE LTD
31, Ubi Road 1, Aztech Building, #07-01A, 408694, Singapore

Product Description: SmartSense Staff Tag

Brand Name: SmartSense Staff Tag

FCC ID: VPE-STG-821

Model No.: STG-821(919), STG-821(925)

Model Difference: Different in frequency (919.8MHz & 925MHz)

File Number: E2/2016/90061

Date of test: Sep. 23, 2016 ~ Nov. 9, 2016

Date of EUT Received: Sep. 23, 2016

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:**Date:**

Nov. 15, 2016

Jerry Lu / Asst. Supervisor**Prepared By:****Date:**

Nov. 15, 2016

Violetta Tang / Clerk**Approved By****Date:**

Nov. 15, 2016

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
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| E2/2016/90061 | Rev.00 | Initial creation of document | Nov. 15, 2016 |
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1. GENERAL INFORMATION

1.1. Product Description

| | | |
|-------------------|---|-------------------------------|
| Product Name: | SmartSense Staff Tag | |
| Brand Name: | SmartSense Staff Tag | |
| Model No.: | STG-821(919), STG-821(925) | |
| Model Difference: | Different in frequency (919.8MHz & 925MHz) | |
| Hardware Version: | V3.1 | |
| Software Version | V6 | |
| Power Supply: | 3.7Vdc from Rechargeable Lithium Ion Polymer Battery or 5Vdc from USB Port | |
| | Battery: | Model No.: N/A; Supplier: N/A |

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 §15.225

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

Canada Registration Number: 4620A-5

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.

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2.4. Limitation

(1) Conducted Emission

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

| 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 $\mu\text{V/m}$ | Distance (m) | Field strength at 3m $\text{dB}\mu\text{V/m}$ |
|-----------------|--------------------------------|--------------|---|
| 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 $\text{dB}\mu\text{V/m}$ | Limit at 30m $\text{dB}\mu\text{V/m}$ | Distance Factor dB | Limit $\text{dB}\mu\text{V/m}$ 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 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

| 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 |

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3. Summary of Test Results

| FCC Rules | Description of Test | Result |
|-------------|----------------------------------|-----------|
| §15.207 (a) | 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.

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) | 9kHz - 30MHz: +/- 2.3dB |
| | 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) | 9kHz - 30MHz: +/- 2.3dB |
| | 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 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. | | |

6.2. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-------------------|------------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| EMI Test Receiver | R&S | ESCI 7 | 100950 | 12/12/2015 | 12/11/2016 |
| Coaxial Cables | N/A | N30N30-1042-150cm | N/A | 02/07/2016 | 02/06/2017 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | 03/11/2016 | 03/10/2017 |
| Test Software | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

6.3. EUT Setup:

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

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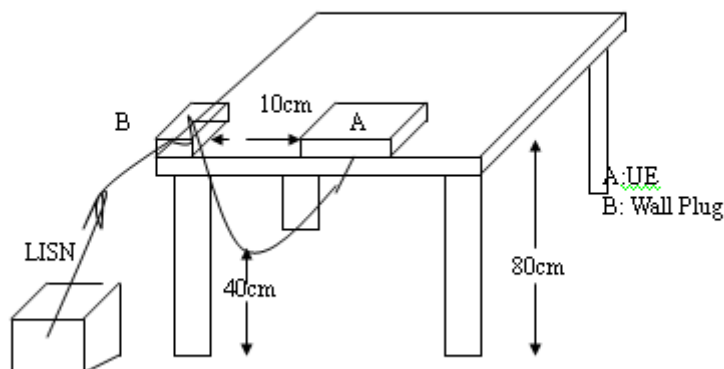
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6.4. Test SET-UP (Block Diagram of Configuration)



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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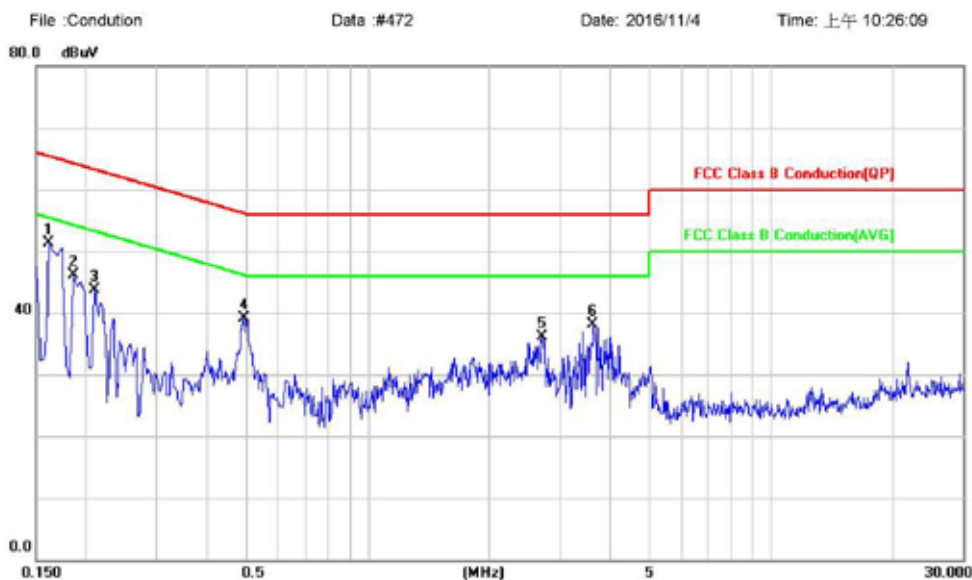
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | | | |
|-----------------|----------------|-----------|------|------------|---------------|
| Operation Mode: | Operation Mode | | | Test Date: | Nov. 04, 2016 |
| Temperature: | 23 | Humidity: | 60 % | Test By: | Jerry |
| Probe: | L1 / N | | | | |

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

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.1620 | 31.64 | 19.72 | 51.36 | 65.36 | -14.00 | peak | |
| 2 | | 0.1860 | 26.36 | 19.71 | 46.07 | 64.21 | -18.14 | peak | |
| 3 | | 0.2100 | 24.03 | 19.72 | 43.75 | 63.21 | -19.46 | peak | |
| 4 | | 0.4940 | 19.27 | 19.90 | 39.17 | 56.10 | -16.93 | peak | |
| 5 | | 2.7180 | 16.24 | 19.94 | 36.18 | 56.00 | -19.82 | peak | |
| 6 | | 3.6380 | 18.20 | 19.95 | 38.15 | 56.00 | -17.85 | peak | |

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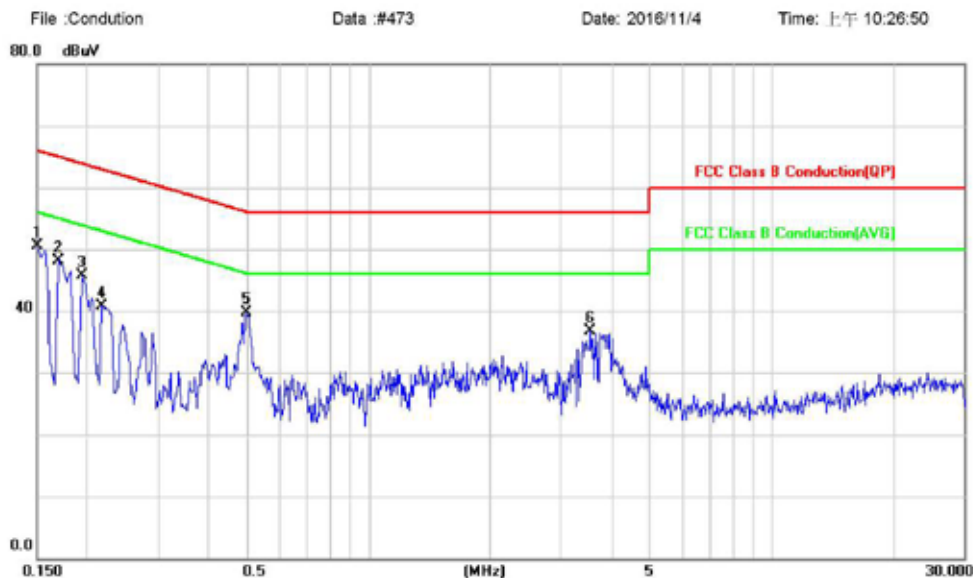
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Site : Conduction Room Phase: **N** Temperature: 23 °C
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
Mode: CADI
Note:

Conducted Emission



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.1500 | 30.83 | 19.73 | 50.56 | 66.00 | -15.44 | peak | |
| 2 | | 0.1700 | 28.47 | 19.73 | 48.20 | 64.96 | -16.76 | peak | |
| 3 | | 0.1940 | 26.05 | 19.72 | 45.77 | 63.86 | -18.09 | peak | |
| 4 | | 0.2180 | 20.95 | 19.73 | 40.68 | 62.89 | -22.21 | peak | |
| 5 | | 0.4980 | 19.82 | 19.91 | 39.73 | 56.03 | -16.30 | peak | |
| 6 | | 3.5620 | 16.71 | 19.96 | 36.67 | 56.00 | -19.33 | peak | |

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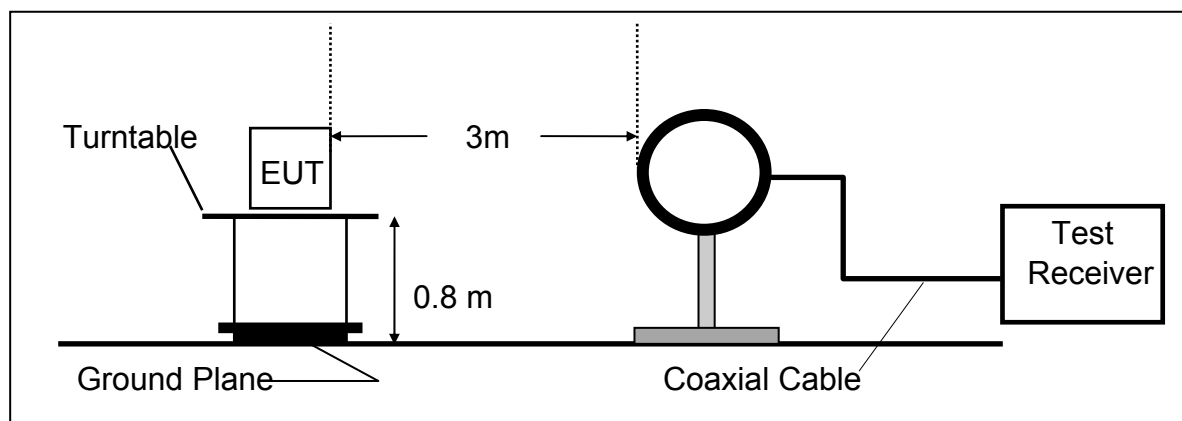
7. Radiated Emission Test

7.1. Measurement Procedure

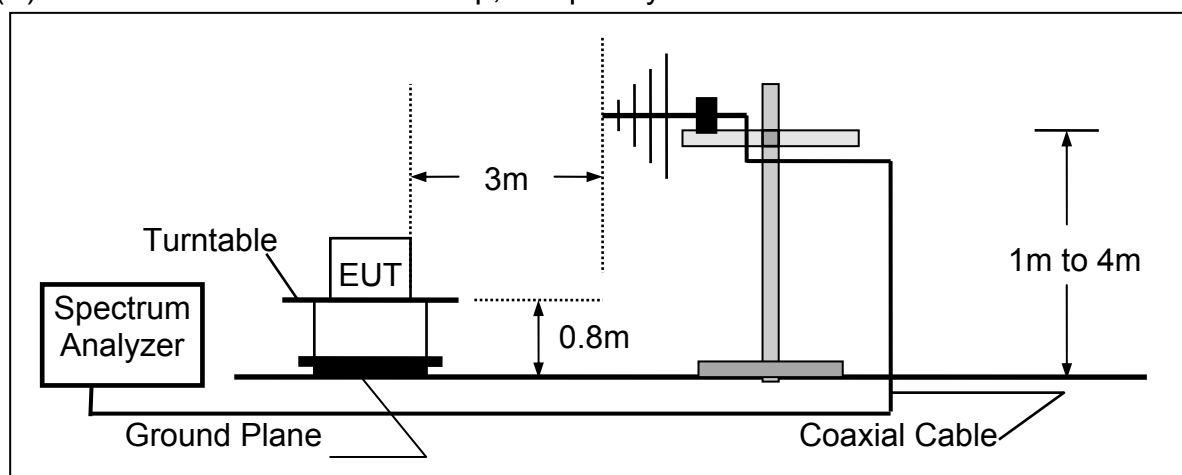
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

7.2. 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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7.3. Measurement Equipment Used:

| 966 Chamber | | | | | |
|-------------------|-----------------|-----------------------------|------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/12/2016 | 04/11/2017 |
| Loop Antenna | ETS-Lindgren | 6502 | 00143303 | 12/23/2015 | 12/22/2016 |
| Broadband Antenna | TESEQ | CBL 6112D | 35240 | 10/28/2015 | 10/27/2016 |
| Horn Antenna | ETS-Lindgren | 3117 | 00143272 | 12/16/2015 | 12/15/2016 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/18/2016 | 07/17/2017 |
| Pre Amplifier | EMC Instruments | EMC330 | 980096 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | EMC Instruments | EMC0011830 | 980199 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | R&S | SCU-18 | 10204 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | R&S | SCU-26 | 100780 | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | RG 214/U | 966Rx 9K-30M | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | RG 214/U SUCOFLEX 104 | 966Rx 30M-3G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Rx 1G-18G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | mini 141-12 SUCOFLEX 104 | 966Rx 18G-40G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Tx 30M-18G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | 966Tx 18G-40G | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF27 | 12/12/2015 | 12/11/2016 |
| Site NSA | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 |
| Site VSWR | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 |
| DC Power Supply | HOLA | DP-3003 | D7070035 | 05/04/2016 | 05/03/2017 |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. |
| Test Software | World-Pallas | Dr. E | V 3.0 Lite | N.C.R. | N.C.R. |

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7.4. 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 | |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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7.5. Measurement Result

| | | | |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode : | 125kHz | Test Date : | 2016/10/14 |
| Fundamental Frequency : | 125kHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Main CH Mid | Test Engineer : | Ashton |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|-------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 0.12 | F | Peak | 55.67 | 11.61 | 67.28 | 105.7086 | -38.43 |

| | | | |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode : | 125kHz | Test Date : | 2016/10/14 |
| Fundamental Frequency : | 125kHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Main CH Mid | Test Engineer : | Ashton |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Horizontal |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|-------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 0.13 | F | Peak | 55.20 | 11.61 | 66.82 | 105.6573 | -38.84 |

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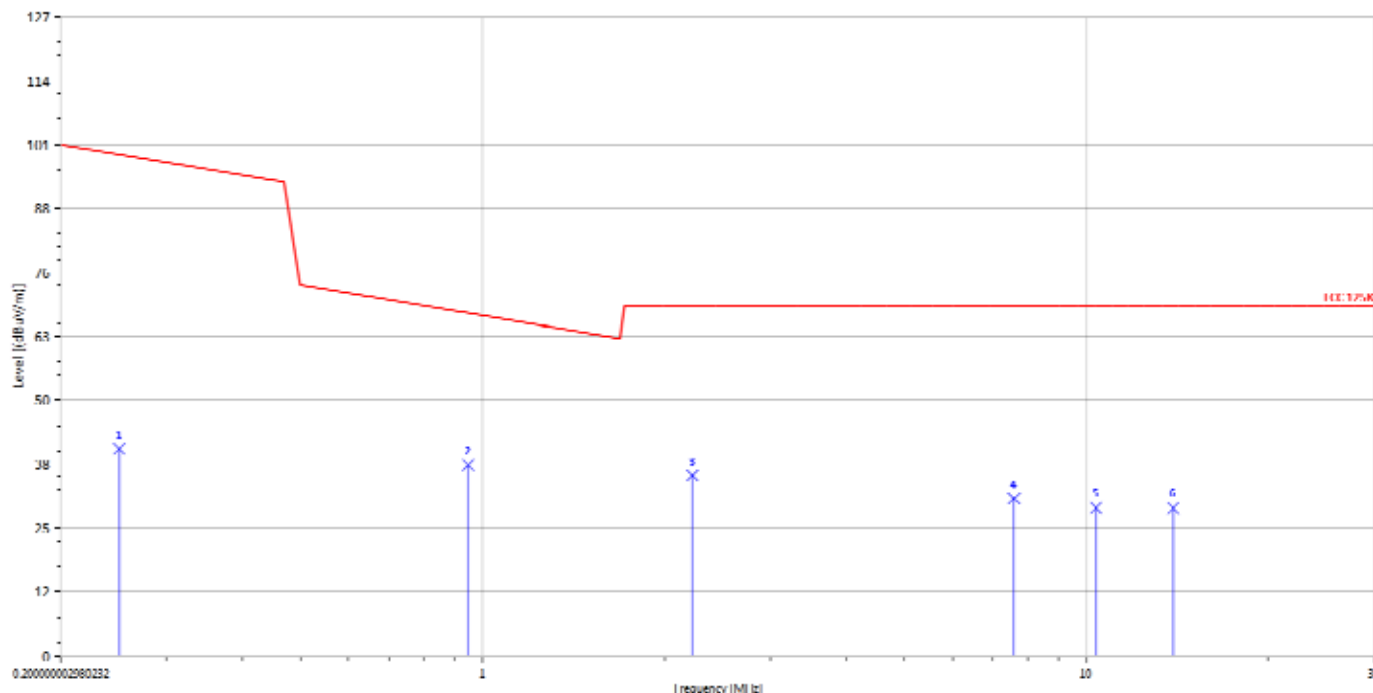
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(10MHz~30MHz)

Operation Mode : 125kHz Test Date : 2016/10/14
Fundamental Frequency : 125kHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|-------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 0.25 | H | Peak | 29.58 | 11.55 | 41.14 | 99.65 | -58.51 |
| 0.95 | S | Peak | 26.30 | 11.64 | 37.93 | 68.096 | -30.16 |
| 2.23 | S | Peak | 24.43 | 11.39 | 35.82 | 69.54 | -33.72 |
| 7.59 | S | Peak | 19.52 | 11.67 | 31.19 | 69.54 | -38.35 |
| 10.39 | S | Peak | 17.73 | 11.69 | 29.42 | 69.54 | -40.12 |
| 13.94 | S | Peak | 17.78 | 11.58 | 29.36 | 69.54 | -40.18 |

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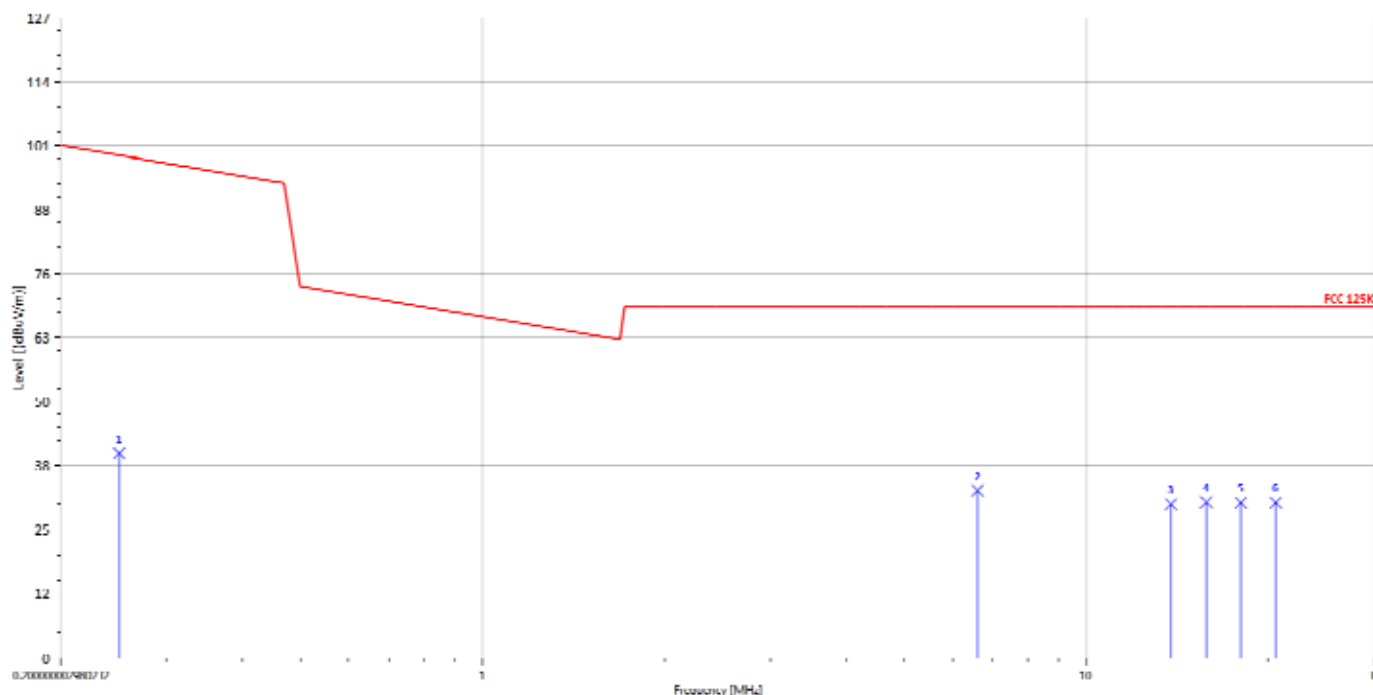
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Operation Mode : 125kHz Test Date : 2016/10/14
Fundamental Frequency : 125kHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 0.25 | H | Peak | 29.02 | 11.55 | 40.58 | 99.65 | -59.07 |
| 6.61 | S | Peak | 21.47 | 11.66 | 33.13 | 69.54 | -36.41 |
| 13.82 | S | Peak | 18.83 | 11.58 | 30.41 | 69.54 | -39.13 |
| 15.79 | S | Peak | 19.29 | 11.52 | 30.80 | 69.54 | -38.74 |
| 18.02 | S | Peak | 19.24 | 11.45 | 30.70 | 69.54 | -38.84 |
| 20.61 | S | Peak | 19.46 | 11.24 | 30.70 | 69.54 | -38.84 |

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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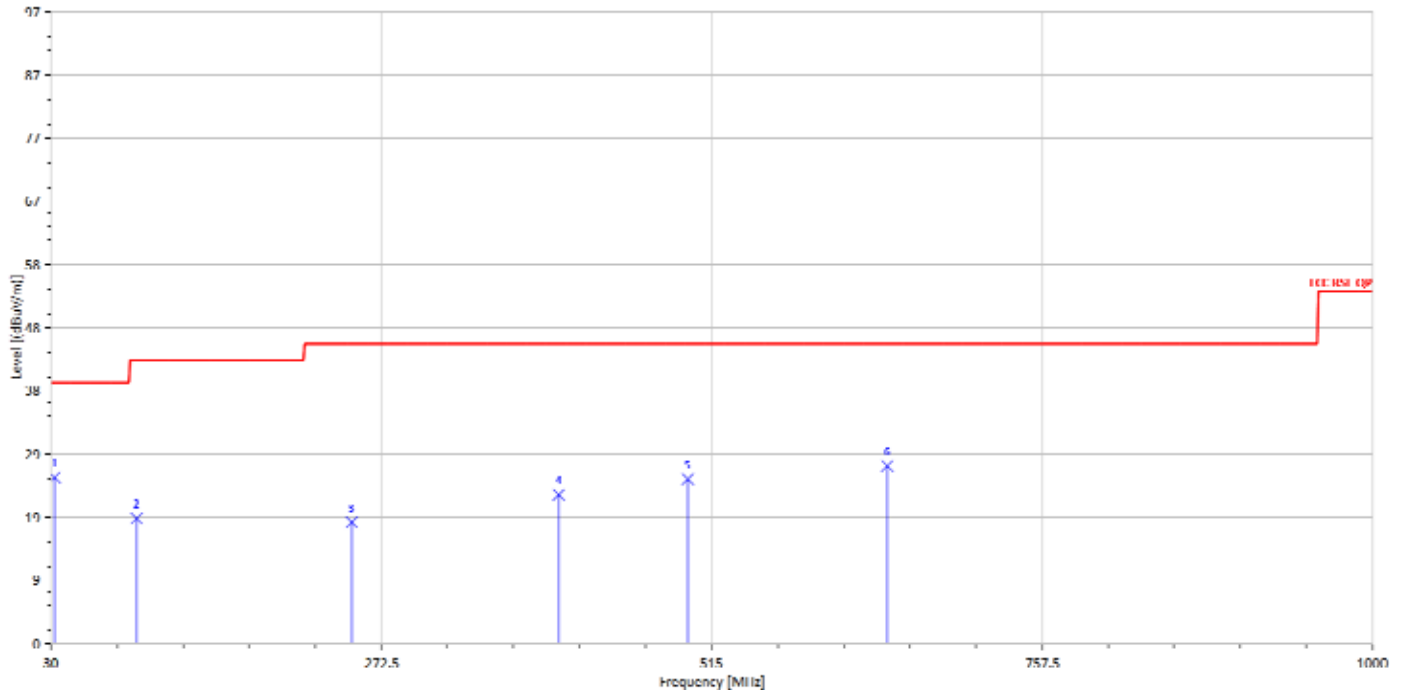
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(30MHz~1GHz)

Operation Mode : 125kHz Test Date : 2016/10/14
Fundamental Frequency : 125kHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 32.91 | S | Peak | 34.17 | -8.75 | 25.42 | 40 | -14.58 |
| 93.05 | S | Peak | 38.15 | -18.95 | 19.20 | 43.5 | -24.30 |
| 251.16 | S | Peak | 33.10 | -14.49 | 18.61 | 46 | -27.39 |
| 402.48 | S | Peak | 32.47 | -9.74 | 22.74 | 46 | -23.26 |
| 497.54 | S | Peak | 32.88 | -7.72 | 25.16 | 46 | -20.84 |
| 644.01 | S | Peak | 32.31 | -5.10 | 27.21 | 46 | -18.79 |

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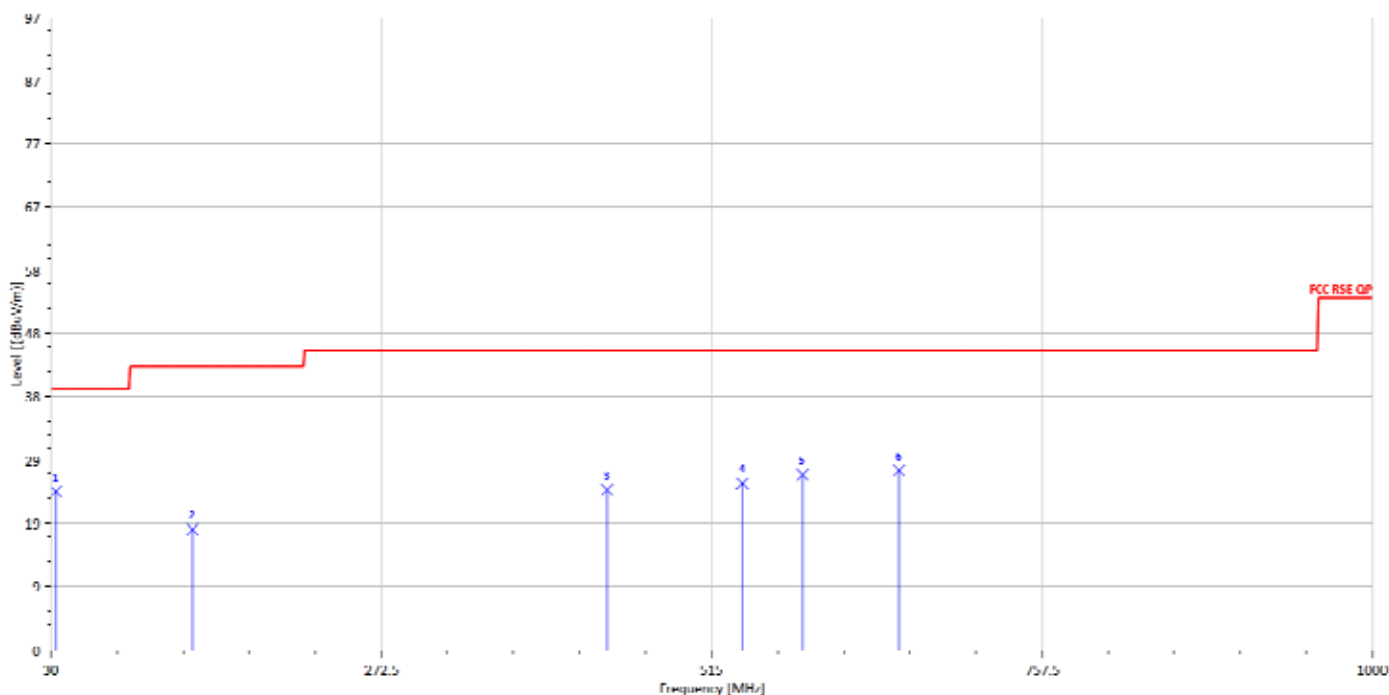
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Operation Mode : 125kHz Test Date : 2016/10/14
Fundamental Frequency : 125kHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 33.88 | S | Peak | 33.55 | -9.27 | 24.28 | 40 | -15.72 |
| 133.79 | S | Peak | 34.31 | -15.82 | 18.49 | 43.5 | -25.01 |
| 438.37 | S | Peak | 33.79 | -9.27 | 24.51 | 46 | -21.49 |
| 537.31 | S | Peak | 32.76 | -7.24 | 25.52 | 46 | -20.48 |
| 581.93 | S | Peak | 33.04 | -6.17 | 26.87 | 46 | -19.13 |
| 652.74 | S | Peak | 32.78 | -5.24 | 27.54 | 46 | -18.46 |

- End of Report -

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