

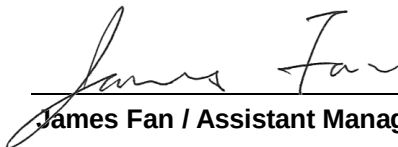
# FCC Test Report

**Equipment** : INFOTAG 2.9  
**Brand Name** : DIGI  
**Model No.** : IFT-4020  
**FCC ID** : SUFIFT4020  
**Standard** : 47 CFR FCC Part 15.249  
**Operating Band** : 2400 MHz – 2483.5 MHz  
**FCC Classification** : DXX  
**Applicant** : Teraoka Weigh System Pte Ltd  
**Manufacturer** : 4 Leng Kee Rd, #05-03/04/05&11, SIS Building,  
Singapore 159088

The product sample received on Oct. 14, 2014 and completely tested on Oct. 30, 2014. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

  
James Fan / Assistant Manager

## Table of Contents

|          |                                                 |              |
|----------|-------------------------------------------------|--------------|
| <b>1</b> | <b>GENERAL DESCRIPTION .....</b>                | <b>5</b>     |
| 1.1      | Information.....                                | 5            |
| 1.2      | Accessories and Support Equipment.....          | 6            |
| 1.3      | Testing Applied Standards .....                 | 6            |
| 1.4      | Testing Location Information .....              | 6            |
| 1.5      | Measurement Uncertainty .....                   | 7            |
| <b>2</b> | <b>TEST CONFIGURATION OF EUT .....</b>          | <b>8</b>     |
| 2.1      | The Worst Case Modulation Configuration .....   | 8            |
| 2.2      | Test Channel Frequencies Configuration.....     | 8            |
| 2.3      | The Worst Case Measurement Configuration .....  | 8            |
| 2.4      | Test Setup Diagram .....                        | 9            |
| <b>3</b> | <b>TRANSMITTER TEST RESULT .....</b>            | <b>10</b>    |
| 3.1      | AC Power-line Conducted Emissions .....         | 10           |
| 3.2      | Emission Bandwidth.....                         | 12           |
| 3.3      | Fundamental Emissions .....                     | 14           |
| 3.4      | Transmitter Radiated Unwanted Emissions .....   | 16           |
| <b>4</b> | <b>TEST EQUIPMENT AND CALIBRATION DATA.....</b> | <b>26</b>    |
|          | <b>APPENDIX A. TEST PHOTOS .....</b>            | <b>A1-A2</b> |

## Summary of Test Result

| Conformance Test Specifications |                  |                                         |                                                             |                                                                                                                 |          |
|---------------------------------|------------------|-----------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| Report Clause                   | Ref. Std. Clause | Description                             | Measured                                                    | Limit                                                                                                           | Result   |
| 1.1.2                           | 15.203           | Antenna Requirement                     | Antenna connector mechanism complied                        | FCC 15.203                                                                                                      | Complied |
| 3.1                             | 15.207           | AC Power-line Conducted Emissions       | See Note.                                                   | FCC 15.207                                                                                                      | N/A      |
| 3.2                             | 15.215(c)        | Emission Bandwidth                      | 2.81 MHz; fall in band                                      | Information only                                                                                                | Complied |
| 3.3                             | 15.249(a)        | Fundamental Emissions                   | [dBuV/m at 3m]:<br>88.54 (Margin 25.46dB) peak              | [dBuV/m at 3m]:<br>peak: 114                                                                                    | Complied |
| 3.4                             | 15.249(a)/(d)    | Transmitter Radiated Unwanted Emissions | [dBuV/m at 3m]: 2400.00 MHz<br>66.68 (Margin 7.32dB) - peak | Harmonics:<br>40 dBuV/m@3m<br>Other band:<br>50 dB or<br>FCC 15.209,<br>whichever is the<br>lesser attenuation. | Complied |

Note: The EUT consumes DC power from battery, therefore, conducted emission test is not applicable.

## Revision History

[illegible]

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| RF General Information                           |            |                     |                |                                     |
|--------------------------------------------------|------------|---------------------|----------------|-------------------------------------|
| Frequency Range (MHz)                            | Modulation | Ch. Frequency (MHz) | Channel Number | Fundamental Field Strength (dBuV/m) |
| 2400-2483.5                                      | GFSK       | 2402-2480           | 0-78 [79]      | 88.54                               |
| Note: Field strength performed peak level at 3m. |            |                     |                |                                     |

### 1.1.2 Antenna Information

| Antenna Category                    |                                                                  |
|-------------------------------------|------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Integral antenna (antenna permanently attached)                  |
| <input type="checkbox"/>            | External antenna (dedicated antennas) ; Unique antenna connector |

### 1.1.3 Type of EUT

| Identify EUT                        |                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| EUT Serial Number                   | N/A                                                                                                                               |
| Presentation of Equipment           | <input type="checkbox"/> Production ; <input checked="" type="checkbox"/> Pre-Production ; <input type="checkbox"/> Prototype     |
| Type of EUT                         |                                                                                                                                   |
| <input checked="" type="checkbox"/> | Stand-alone                                                                                                                       |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device)<br>Combined Equipment - Brand Name / Model No.: ... |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)<br>Host System - Brand Name / Model No.: ...                           |
| <input type="checkbox"/>            | Other:                                                                                                                            |

### 1.1.4 Test Signal Duty Cycle

| Operated Mode for Worst Duty Cycle                                |                                                |
|-------------------------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/>                                          | Operated normally mode for worst duty cycle    |
| <input checked="" type="checkbox"/>                               | Operated test mode for worst duty cycle        |
| Test Signal Duty Cycle (x)                                        | Duty Cycle Correction Factor [dB] – (20 log x) |
| <input checked="" type="checkbox"/> 0.61304%                      | 44.25                                          |
| If worst duty < 100%, average emission = peak emission + 20 log x |                                                |

### 1.1.5 EUT Operational Condition

|                   |                                             |                                               |                                             |
|-------------------|---------------------------------------------|-----------------------------------------------|---------------------------------------------|
| Supply Voltage    | <input type="checkbox"/> AC mains           | <input checked="" type="checkbox"/> DC (3Vdc) |                                             |
| Type of DC Source | <input type="checkbox"/> Internal DC supply | <input type="checkbox"/> Host                 | <input checked="" type="checkbox"/> Battery |

## 1.2 Support Equipment

| Support Equipment |           |            |                |            |
|-------------------|-----------|------------|----------------|------------|
| No.               | Equipment | Brand Name | Model Name     | Serial No. |
| 1                 | NOTEBOOK  | DELL       | Latitude E6440 | 8VXMD12    |
| 2                 | AP        | DIGI       | BS-03          | --         |

Note: No.2 is provided by applicant.

## 1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2009

## 1.4 Testing Location Information

| Testing Location                               |               |                                                                                                       |                  |                         |
|------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------|------------------|-------------------------|
| <input checked="" type="checkbox"/>            | HWA YA        | ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C |                  |                         |
|                                                |               | TEL : 886-3-327-3456 FAX : 886-3-327-0973                                                             |                  |                         |
| Test Condition                                 | Test Site No. | Test Engineer                                                                                         | Test Environment | Test Date               |
| Radiated Emission                              | 03CH03-HY     | Aaron Liang                                                                                           | 24-25°C / 64-65% | Oct. 28 ~ Oct. 30, 2014 |
| Test site registered number [643075] with FCC. |               |                                                                                                       |                  |                         |
| Test site registered number [4086B-1] with IC. |               |                                                                                                       |                  |                         |

## 1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Measurement Uncertainty           |               |             |       |
|-----------------------------------|---------------|-------------|-------|
| Test Item                         |               | Uncertainty | Limit |
| AC power-line conducted emissions |               | ±2.26 dB    | N/A   |
| Emission bandwidth,               |               | ±1.42 %     | N/A   |
| Unwanted emissions, conducted     | 30 – 1000 MHz | ±0.51 dB    | N/A   |
|                                   | 1 – 18 GHz    | ±0.67 dB    | N/A   |
|                                   | 18 – 40 GHz   | ±0.83 dB    | N/A   |
|                                   | 40 – 200 GHz  | N/A         | N/A   |
| All emissions, radiated           | 30 – 1000 MHz | ±2.56 dB    | N/A   |
|                                   | 1 – 18 GHz    | ±3.59 dB    | N/A   |
|                                   | 18 – 40 GHz   | ±3.82 dB    | N/A   |
|                                   | 40 – 200 GHz  | N/A         | N/A   |
| Temperature                       |               | ±0.8 °C     | N/A   |
| Humidity                          |               | ±3 %        | N/A   |
| DC and low frequency voltages     |               | ±3 %        | N/A   |
| Time                              |               | ±1.42 %     | N/A   |
| Duty Cycle                        |               | ±1.42 %     | N/A   |

## 2 Test Configuration of EUT

### 2.1 The Worst Case Modulation Configuration

| Modulation Used for Conformance Testing |                                |
|-----------------------------------------|--------------------------------|
| Test Mode                               | Field Strength (dBuV/m at 3 m) |
| GFSK-Transmit                           | 88.54                          |

### 2.2 Test Channel Frequencies Configuration

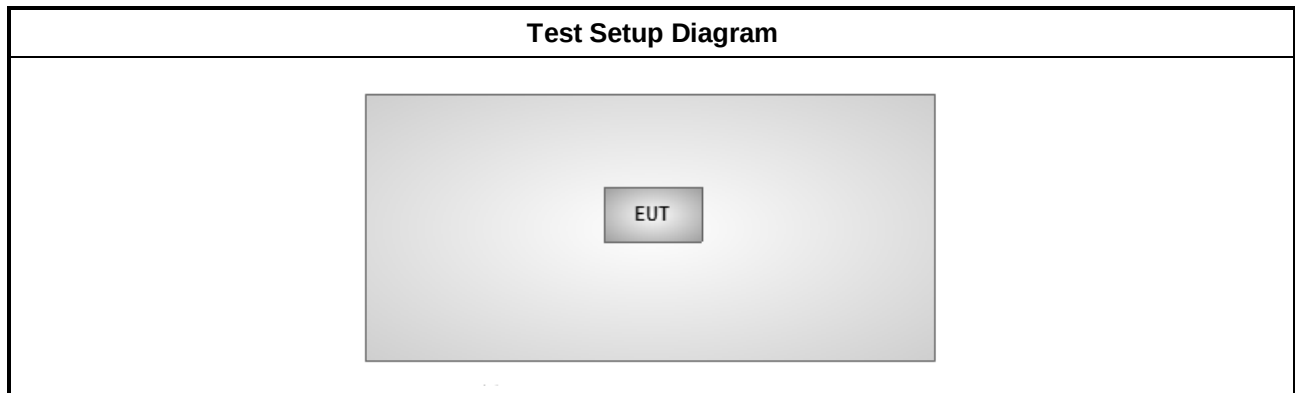
| Test Channel Frequencies Configuration |                                 |
|----------------------------------------|---------------------------------|
| Test Mode                              | Test Channel Frequencies (MHz)  |
| GFSK-Transmit                          | 2402-(F1), 2440-(F2), 2480-(F3) |

### 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                 |                                                                                     |                                                                                       |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tests Item                                          | Emission Bandwidth, Fundamental Emissions, Radiated Unwanted Emissions                                                                                                                          |                                                                                     |                                                                                       |
| Test Condition                                      | Radiated measurement                                                                                                                                                                            |                                                                                     |                                                                                       |
| User Position                                       | <input type="checkbox"/> EUT will be placed in fixed position.                                                                                                                                  |                                                                                     |                                                                                       |
|                                                     | <input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst planes is X.                           |                                                                                     |                                                                                       |
|                                                     | <input checked="" type="checkbox"/> EUT will be a hand-held and battery-powered devices and operating multiple positions. EUT shall be performed three orthogonal planes. The worst plane is Y. |                                                                                     |                                                                                       |
| Operating Mode                                      | <input checked="" type="checkbox"/> 1. Transmit                                                                                                                                                 |                                                                                     |                                                                                       |
| Test Mode                                           | GFSK-Transmit                                                                                                                                                                                   |                                                                                     |                                                                                       |
| Orthogonal Planes of EUT                            | X Plane                                                                                                                                                                                         | Y Plane                                                                             | Z Plane                                                                               |
|                                                     |                                                                                                              |  |  |



## 2.4 Test Setup Diagram



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit |            |           |
|-----------------------------------------|------------|-----------|
| Frequency Emission (MHz)                | Quasi-Peak | Average   |
| 0.15-0.5                                | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                   | 56         | 46        |
| 5-30                                    | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

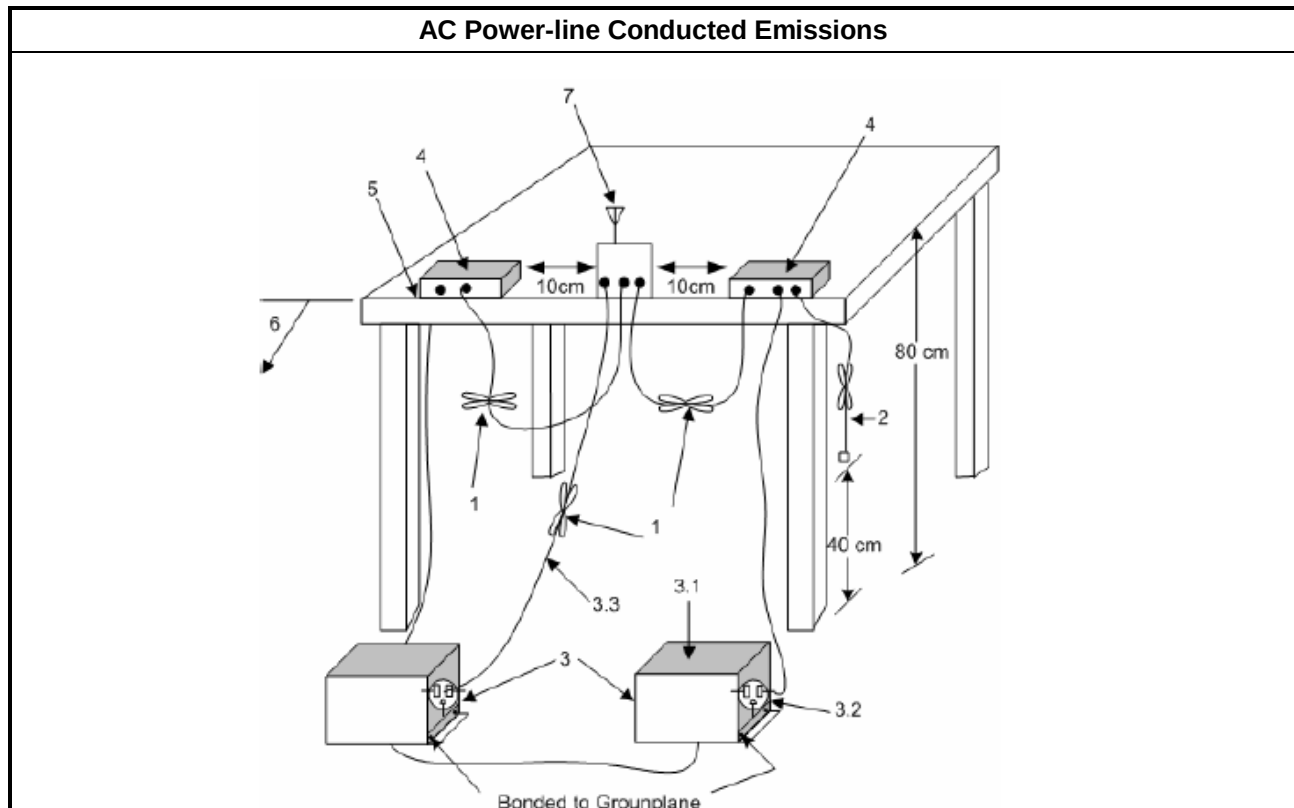
##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

| Test Method                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions. |

##### 3.1.4 Test Setup





### **3.1.5 Test Result of AC Power-line Conducted Emissions**

The EUT consumes DC power, therefore, conducted emission test is not applicable.

## 3.2 Emission Bandwidth

### 3.2.1 Emission Bandwidth Limit

| Emission Bandwidth Limit            |                                                             |
|-------------------------------------|-------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Emission bandwidth falls completely within authorized band. |

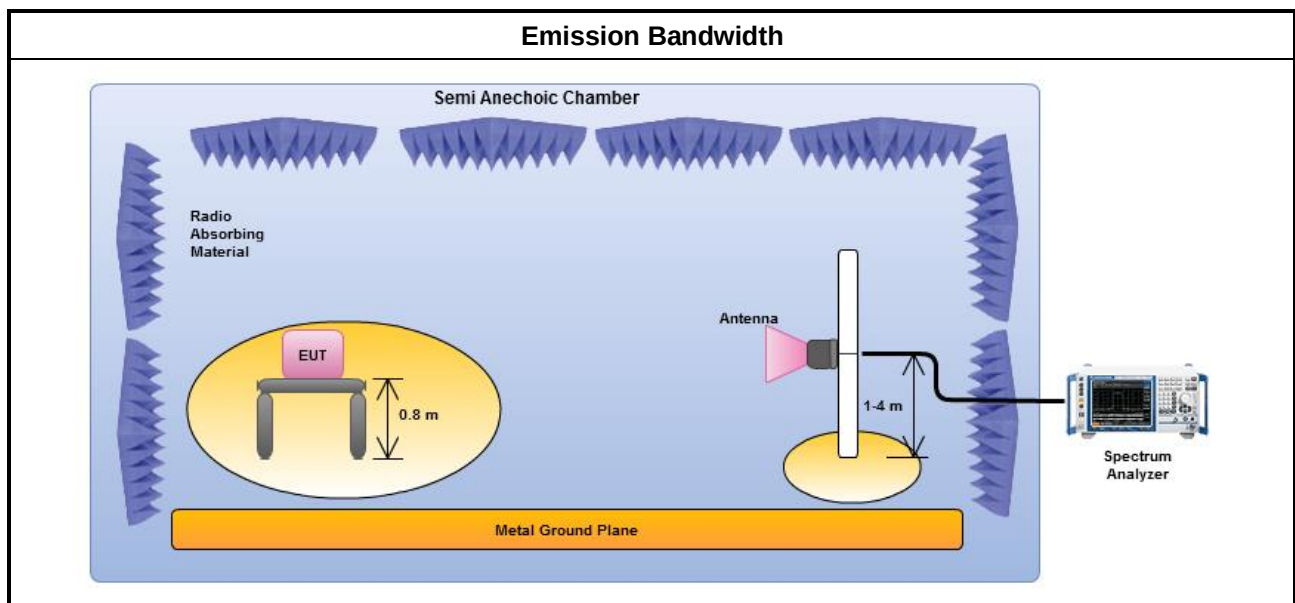
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

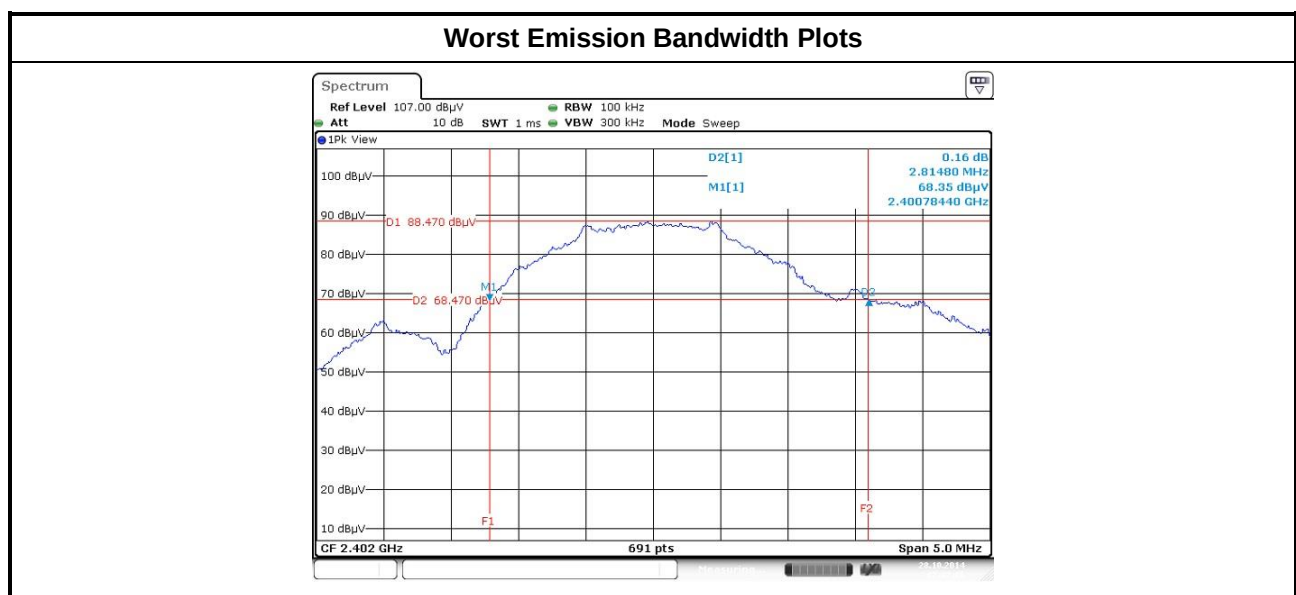
| Test Method                         |                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.1 for 20 dB emission bandwidth and 99% occupied bandwidth measurement. |

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

| Emission Bandwidth Result |                 |                     |                                 |                                 |               |
|---------------------------|-----------------|---------------------|---------------------------------|---------------------------------|---------------|
| Modulation Mode           | Frequency (MHz) | 99% Bandwidth (MHz) | F <sub>L</sub> at 20dB BW (MHz) | F <sub>H</sub> at 20dB BW (MHz) | 20dB BW (MHz) |
| GFSK-Transmit             | 2402            | 2.66                | 2400.7844                       | -                               | 2.81          |
| GFSK-Transmit             | 2440            | 2.55                | -                               | -                               | 2.77          |
| GFSK-Transmit             | 2480            | 2.24                | -                               | 2481.1867                       | 2.48          |
| Limit                     |                 | N/A                 | 2400                            | 2483.5                          | N/A           |
| Result                    |                 | Complied            |                                 |                                 |               |



### 3.3 Fundamental Emissions

#### 3.3.1 Fundamental Emissions Limit

| Fundamental Emissions E-Field Strength Limit (3m) |                                           |
|---------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/>                          | 902-928 MHz Band: 94 dBuV/m (quasi peak)  |
| <input checked="" type="checkbox"/>               | 2400-2483.5 MHz Band: 94 dBuV/m (average) |
| <input type="checkbox"/>                          | 5725-5785 MHz Band: 94 dBuV/m (average)   |

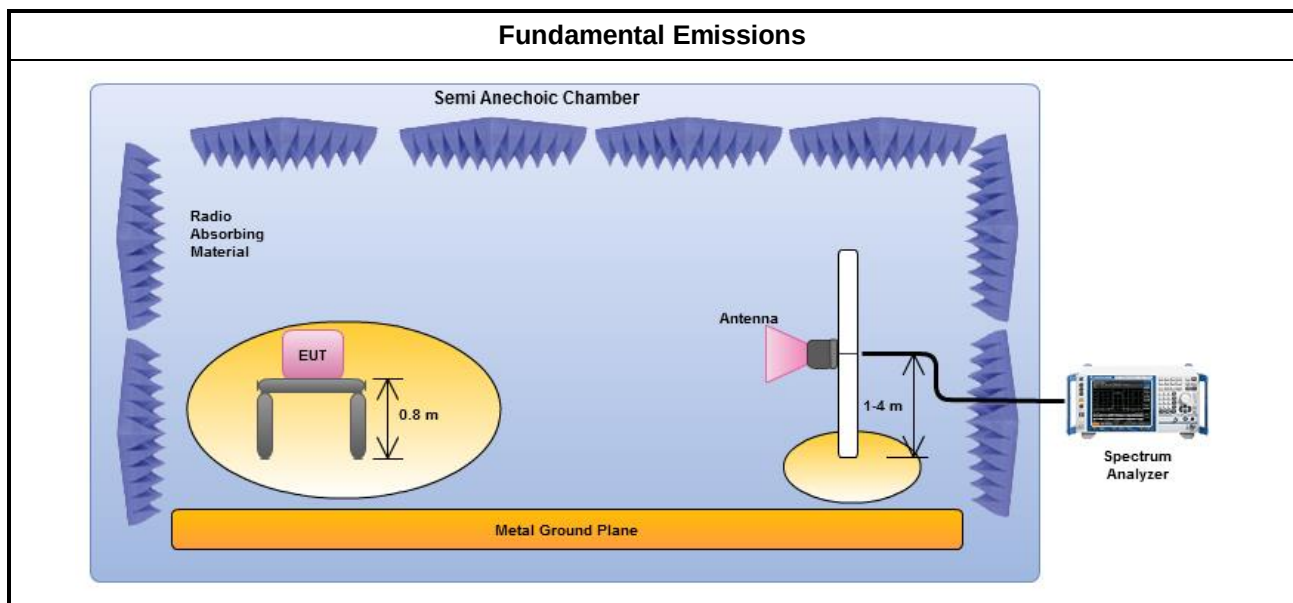
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.3.3 Test Procedures

|                                     |                                                                                                                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | The average emission levels shall be measured in [duty cycle $\geq$ 100 or by duty cycle correction factor].                                                                                                                              |
| <input checked="" type="checkbox"/> | For the transmitter emissions shall be measured using following options below:                                                                                                                                                            |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW) – Duty cycle $\geq$ 100%.                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$ . Average emission = peak emission + 20 log (duty cycle). |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.                                                                                                                                                                  |
| <input checked="" type="checkbox"/> | For radiated measurement, refer as ANSI C63.10, clause 6.6 for radiated emissions                                                                                                                                                         |

#### 3.3.4 Test Setup



### 3.3.5 Test Result of Fundamental Emissions

| Field Strength of Fundamental Emissions Result                                        |                 |                         |             |                   |         |
|---------------------------------------------------------------------------------------|-----------------|-------------------------|-------------|-------------------|---------|
| Modulation Mode                                                                       | Frequency (MHz) | Fundamental (dBuV/m)@3m | Margin (dB) | Limit (dBuV/m)@3m | Type    |
| GFSK-Transmit                                                                         | 2402            | 88.54                   | -25.46      | 114               | peak    |
| GFSK-Transmit                                                                         | 2402            | 44.29                   | -49.71      | 94                | average |
| GFSK-Transmit                                                                         | 2440            | 88.41                   | -25.59      | 114               | peak    |
| GFSK-Transmit                                                                         | 2440            | 44.16                   | -49.84      | 94                | average |
| GFSK-Transmit                                                                         | 2480            | 87.75                   | -26.25      | 114               | peak    |
| GFSK-Transmit                                                                         | 2480            | 43.50                   | -50.50      | 94                | average |
| Result                                                                                |                 | Complied                |             |                   |         |
| Note 1: Measurement worst emissions of receive antenna polarization: Horizontal.      |                 |                         |             |                   |         |
| Note 2: If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle). |                 |                         |             |                   |         |

### 3.4 Transmitter Radiated Unwanted Emissions

#### 3.4.1 Transmitter Radiated Unwanted Emissions Limit

| Transmitter Radiated Unwanted Emissions Limit |                                                                                              |
|-----------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Harmonics:</b>                             |                                                                                              |
| <input checked="" type="checkbox"/>           | 54 dBuV/m (average)                                                                          |
| <b>Other Unwanted Emissions:</b>              |                                                                                              |
| <input checked="" type="checkbox"/>           | 50 dB below the level of the fundamental or FCC 15.209, whichever is the lesser attenuation. |

#### 3.4.2 Measuring Instruments

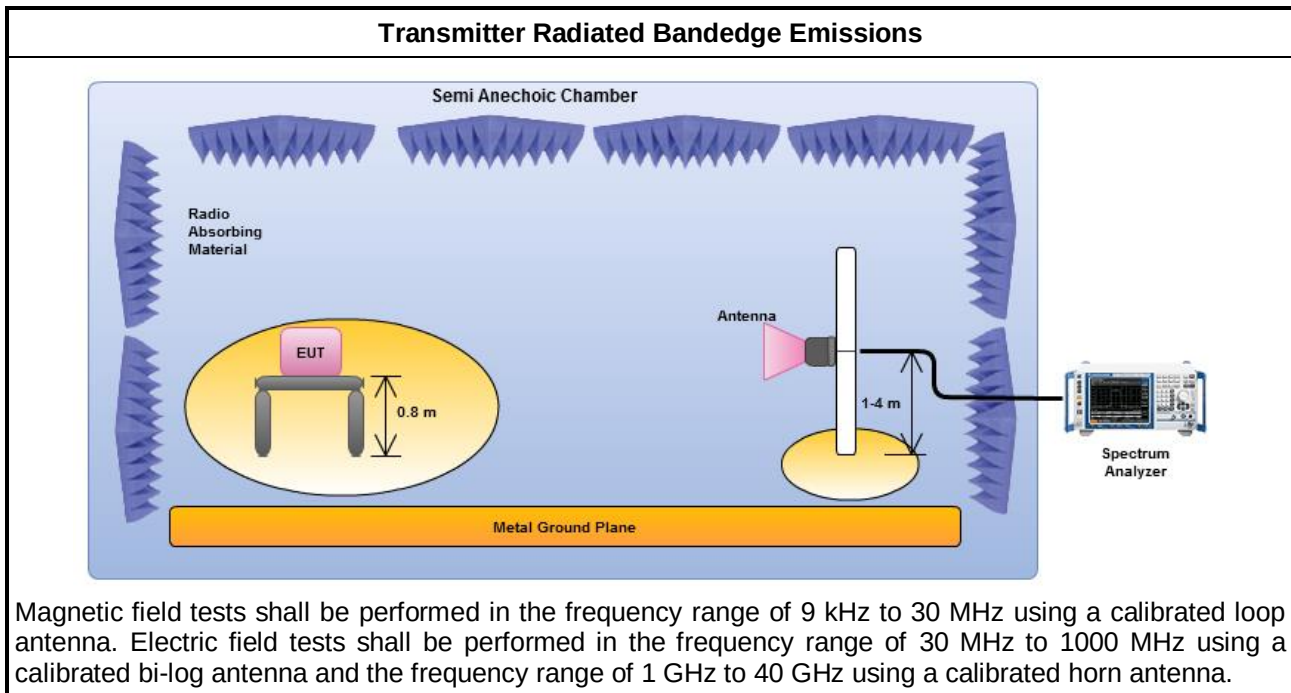
Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

| Test Method – General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). |
| <input checked="" type="checkbox"/> | Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Measurements in the frequency range above 18 GHz - 25GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.                                                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | For the transmitter unwanted emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW) – Duty cycle $\geq$ 100%.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$ . Average emission = peak emission + $20 \log(\text{duty cycle})$ .                                                                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | For the transmitter bandedge emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input checked="" type="checkbox"/> | For radiated measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



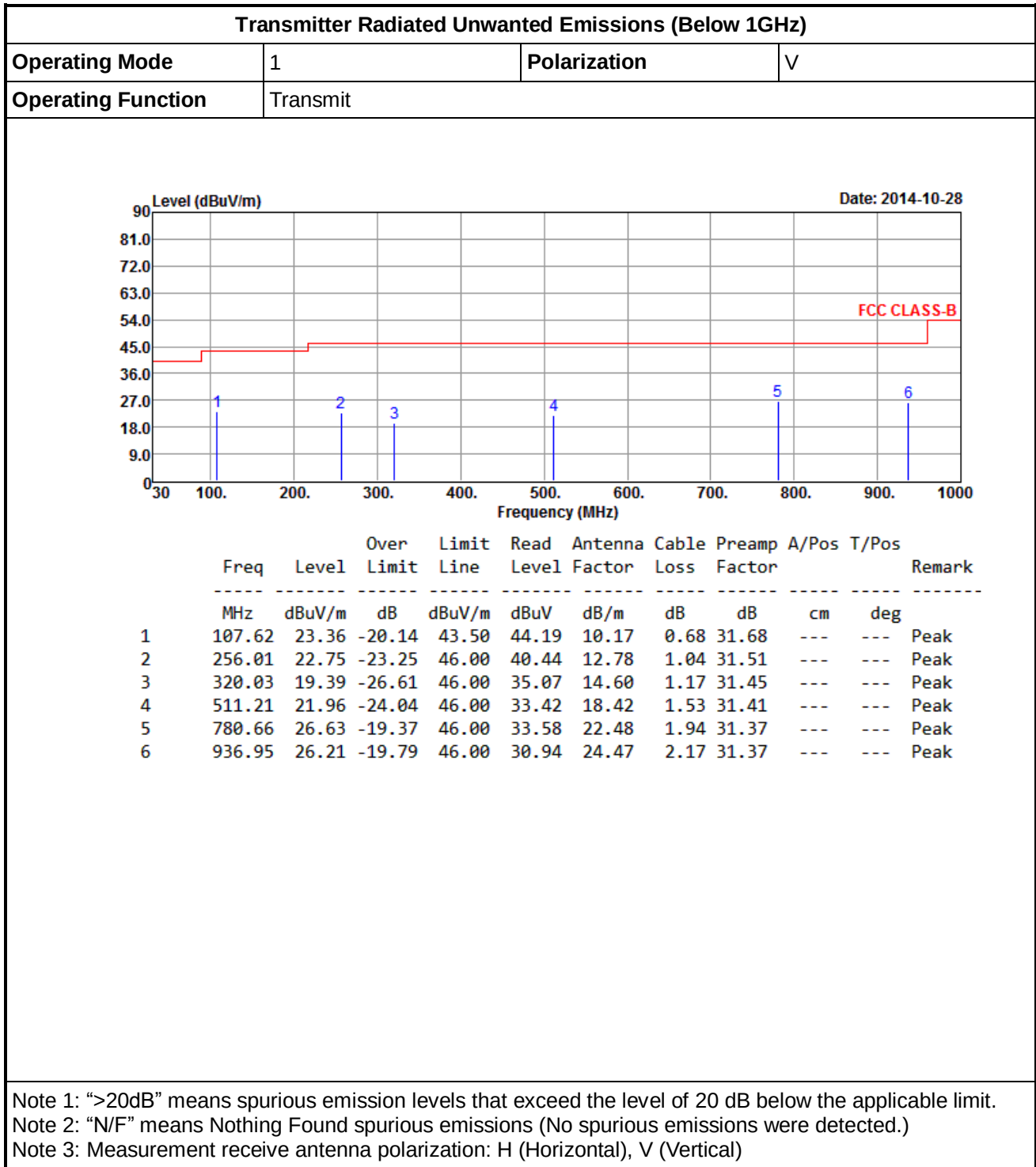
### 3.4.4 Test Setup



### 3.4.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

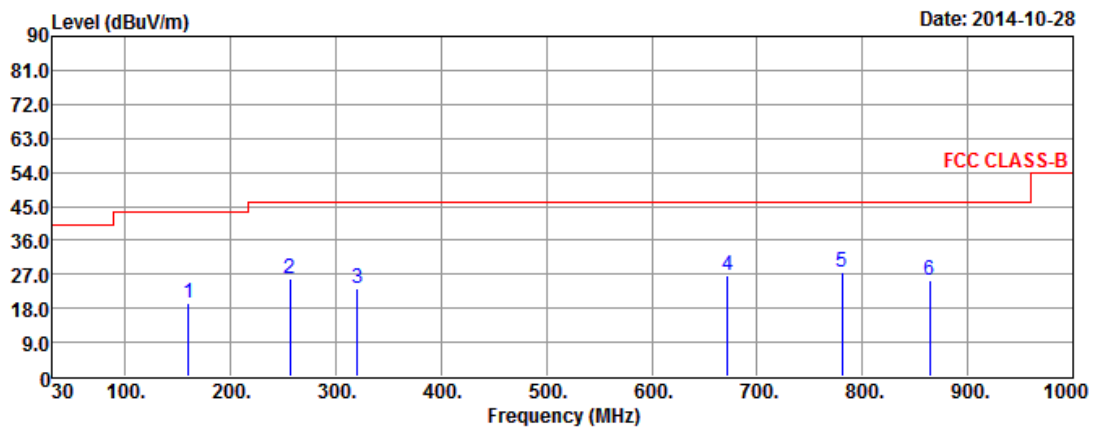
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

### 3.4.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)



**Transmitter Radiated Unwanted Emissions (Below 1GHz)**

|                    |          |              |   |
|--------------------|----------|--------------|---|
| Operating Mode     | 1        | Polarization | H |
| Operating Function | Transmit |              |   |



|   | Freq   | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark |
|---|--------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|--------|
|   | MHz    | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |        |
| 1 | 159.85 | 19.34  | -24.16     | 43.50      | 36.35      | 13.80          | 0.81       | 31.62        | ---   | ---   | Peak   |
| 2 | 256.09 | 25.88  | -20.12     | 46.00      | 43.57      | 12.78          | 1.04       | 31.51        | ---   | ---   | Peak   |
| 3 | 320.03 | 23.46  | -22.54     | 46.00      | 39.14      | 14.60          | 1.17       | 31.45        | ---   | ---   | Peak   |
| 4 | 672.18 | 26.55  | -19.45     | 46.00      | 35.17      | 21.01          | 1.79       | 31.42        | ---   | ---   | Peak   |
| 5 | 780.78 | 27.73  | -18.27     | 46.00      | 34.68      | 22.48          | 1.94       | 31.37        | ---   | ---   | Peak   |
| 6 | 864.25 | 25.44  | -20.56     | 46.00      | 31.11      | 23.60          | 2.10       | 31.37        | ---   | ---   | Peak   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

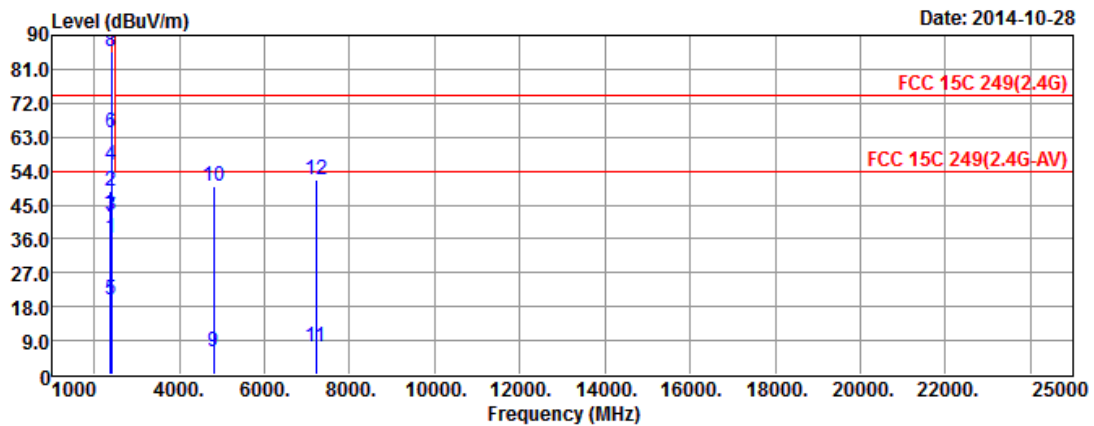
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

**3.4.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)**

| Transmitter Radiated Unwanted Emissions (Above 1GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |        |            |            |                  |                |            |                |       |       |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
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| Modulation Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GFSK-Transmit |        |            |            | Test Freq. (MHz) |                | 2402       |                |       |       |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Transmit      |        |            |            | Polarization     |                | V          |                |       |       |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| <div><div><div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>90</div><div>81.0</div><div>72.0</div><div>63.0</div><div>54.0</div><div>45.0</div><div>36.0</div><div>27.0</div><div>18.0</div><div>9.0</div><div>0</div></div></div><div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>6</div><div>4</div><div>2</div><div>1</div><div>5</div></div><div><div>10</div><div>12</div><div>9</div><div>11</div></div></div><div><div><div><div><div>FCC 15C 249(2.4G)</div><div>FCC 15C 249(2.4G-AV)</div></div></div><div>Date: 2014-10-28</div></div></div></div><table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>Read Level</th><th>Antenna Factor</th><th>Cable Loss</th><th>Preampl Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2390.00</td><td>36.83</td><td>-17.17</td><td>54.00</td><td>39.45</td><td>27.26</td><td>4.60</td><td>34.48</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>2</td><td>2390.00</td><td>49.31</td><td>-24.69</td><td>74.00</td><td>51.93</td><td>27.26</td><td>4.60</td><td>34.48</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>2398.00</td><td>44.19</td><td>-9.81</td><td>54.00</td><td>46.78</td><td>27.28</td><td>4.61</td><td>34.48</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>4</td><td>2398.00</td><td>57.25</td><td>-16.75</td><td>74.00</td><td>59.84</td><td>27.28</td><td>4.61</td><td>34.48</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>2400.00</td><td>22.43</td><td>-31.57</td><td>54.00</td><td>25.02</td><td>27.28</td><td>4.61</td><td>34.48</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>6</td><td>2400.00</td><td>66.68</td><td>-7.32</td><td>74.00</td><td>69.27</td><td>27.28</td><td>4.61</td><td>34.48</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>7</td><td>2402.00</td><td>44.29</td><td>-49.71</td><td>94.00</td><td>46.87</td><td>27.28</td><td>4.61</td><td>34.47</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>8</td><td>2402.00</td><td>88.54</td><td>-25.46</td><td>114.00</td><td>91.12</td><td>27.28</td><td>4.61</td><td>34.47</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>9</td><td>4804.00</td><td>11.65</td><td>-42.35</td><td>54.00</td><td>6.76</td><td>31.13</td><td>6.74</td><td>32.98</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>10</td><td>4804.00</td><td>55.90</td><td>-18.10</td><td>74.00</td><td>51.01</td><td>31.13</td><td>6.74</td><td>32.98</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>11</td><td>7206.00</td><td>7.33</td><td>-46.67</td><td>54.00</td><td>-3.09</td><td>35.74</td><td>8.92</td><td>34.24</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>12</td><td>7206.00</td><td>51.58</td><td>-22.42</td><td>74.00</td><td>41.16</td><td>35.74</td><td>8.92</td><td>34.24</td><td>---</td><td>---</td><td>Peak</td></tr></table></div></div></div></div></div></div></div></div> |               |        |            |            |                  |                |            |                |       |       |         | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preampl Factor | A/Pos | T/Pos | Remark |  | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |  | 1 | 2390.00 | 36.83 | -17.17 | 54.00 | 39.45 | 27.26 | 4.60 | 34.48 | --- | --- | Average | 2 | 2390.00 | 49.31 | -24.69 | 74.00 | 51.93 | 27.26 | 4.60 | 34.48 | --- | --- | Peak | 3 | 2398.00 | 44.19 | -9.81 | 54.00 | 46.78 | 27.28 | 4.61 | 34.48 | --- | --- | Average | 4 | 2398.00 | 57.25 | -16.75 | 74.00 | 59.84 | 27.28 | 4.61 | 34.48 | --- | --- | Peak | 5 | 2400.00 | 22.43 | -31.57 | 54.00 | 25.02 | 27.28 | 4.61 | 34.48 | --- | --- | Average | 6 | 2400.00 | 66.68 | -7.32 | 74.00 | 69.27 | 27.28 | 4.61 | 34.48 | --- | --- | Peak | 7 | 2402.00 | 44.29 | -49.71 | 94.00 | 46.87 | 27.28 | 4.61 | 34.47 | --- | --- | Average | 8 | 2402.00 | 88.54 | -25.46 | 114.00 | 91.12 | 27.28 | 4.61 | 34.47 | --- | --- | Peak | 9 | 4804.00 | 11.65 | -42.35 | 54.00 | 6.76 | 31.13 | 6.74 | 32.98 | --- | --- | Average | 10 | 4804.00 | 55.90 | -18.10 | 74.00 | 51.01 | 31.13 | 6.74 | 32.98 | --- | --- | Peak | 11 | 7206.00 | 7.33 | -46.67 | 54.00 | -3.09 | 35.74 | 8.92 | 34.24 | --- | --- | Average | 12 | 7206.00 | 51.58 | -22.42 | 74.00 | 41.16 | 35.74 | 8.92 | 34.24 | --- | --- | Peak |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Freq          | Level  | Over Limit | Limit Line | Read Level       | Antenna Factor | Cable Loss | Preampl Factor | A/Pos | T/Pos | Remark  |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MHz           | dBuV/m | dB         | dBuV/m     | dBuV             | dB/m           | dB         | dB             | cm    | deg   |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2390.00       | 36.83  | -17.17     | 54.00      | 39.45            | 27.26          | 4.60       | 34.48          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2390.00       | 49.31  | -24.69     | 74.00      | 51.93            | 27.26          | 4.60       | 34.48          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2398.00       | 44.19  | -9.81      | 54.00      | 46.78            | 27.28          | 4.61       | 34.48          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2398.00       | 57.25  | -16.75     | 74.00      | 59.84            | 27.28          | 4.61       | 34.48          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2400.00       | 22.43  | -31.57     | 54.00      | 25.02            | 27.28          | 4.61       | 34.48          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2400.00       | 66.68  | -7.32      | 74.00      | 69.27            | 27.28          | 4.61       | 34.48          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2402.00       | 44.29  | -49.71     | 94.00      | 46.87            | 27.28          | 4.61       | 34.47          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2402.00       | 88.54  | -25.46     | 114.00     | 91.12            | 27.28          | 4.61       | 34.47          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4804.00       | 11.65  | -42.35     | 54.00      | 6.76             | 31.13          | 6.74       | 32.98          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4804.00       | 55.90  | -18.10     | 74.00      | 51.01            | 31.13          | 6.74       | 32.98          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7206.00       | 7.33   | -46.67     | 54.00      | -3.09            | 35.74          | 8.92       | 34.24          | ---   | ---   | Average |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7206.00       | 51.58  | -22.42     | 74.00      | 41.16            | 35.74          | 8.92       | 34.24          | ---   | ---   | Peak    |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |
| <div>Note 1: "&gt;20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.<br/>Note 2: Measurement receive antenna polarization: H (Horizontal), V (Vertical)<br/>Note 3: For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.<br/>Note 4: If duty cycle &lt; 100%, average emission = peak emission + 20 log (duty cycle).</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |        |            |            |                  |                |            |                |       |       |         |      |       |            |            |            |                |            |                |       |       |        |  |     |        |    |        |      |      |    |    |    |     |  |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |       |       |       |       |      |       |     |     |         |   |         |       |        |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |       |       |       |       |      |       |     |     |      |   |         |       |        |       |       |       |      |       |     |     |         |   |         |       |        |        |       |       |      |       |     |     |      |   |         |       |        |       |      |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |    |         |      |        |       |       |       |      |       |     |     |         |    |         |       |        |       |       |       |      |       |     |     |      |

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                           |               |                         |      |
|---------------------------|---------------|-------------------------|------|
| <b>Modulation Mode</b>    | GFSK-Transmit | <b>Test Freq. (MHz)</b> | 2402 |
| <b>Operating Function</b> | Transmit      | <b>Polarization</b>     | H    |



|    | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | A/Pos | T/Pos | Remark  |
|----|---------|--------|------------|------------|------------|----------------|------------|---------------------|-------|-------|---------|
|    | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB                  | cm    | deg   |         |
| 1  | 2390.00 | 36.07  | -17.93     | 54.00      | 38.69      | 27.26          | 4.60       | 34.48               | ---   | ---   | Average |
| 2  | 2390.00 | 48.78  | -25.22     | 74.00      | 51.40      | 27.26          | 4.60       | 34.48               | ---   | ---   | Peak    |
| 3  | 2398.00 | 42.17  | -11.83     | 54.00      | 44.76      | 27.28          | 4.61       | 34.48               | ---   | ---   | Average |
| 4  | 2398.00 | 55.46  | -18.54     | 74.00      | 58.05      | 27.28          | 4.61       | 34.48               | ---   | ---   | Peak    |
| 5  | 2400.00 | 19.74  | -34.26     | 54.00      | 22.33      | 27.28          | 4.61       | 34.48               | ---   | ---   | Average |
| 6  | 2400.00 | 63.99  | -10.01     | 74.00      | 66.58      | 27.28          | 4.61       | 34.48               | ---   | ---   | Peak    |
| 7  | 2402.00 | 41.60  | -52.40     | 94.00      | 44.18      | 27.28          | 4.61       | 34.47               | ---   | ---   | Average |
| 8  | 2402.00 | 85.85  | -28.15     | 114.00     | 88.43      | 27.28          | 4.61       | 34.47               | ---   | ---   | Peak    |
| 9  | 4804.00 | 5.92   | -48.08     | 54.00      | 1.03       | 31.13          | 6.74       | 32.98               | ---   | ---   | Average |
| 10 | 4804.00 | 50.17  | -23.83     | 74.00      | 45.28      | 31.13          | 6.74       | 32.98               | ---   | ---   | Peak    |
| 11 | 7206.00 | 7.29   | -46.71     | 54.00      | -3.13      | 35.74          | 8.92       | 34.24               | ---   | ---   | Average |
| 12 | 7206.00 | 51.54  | -22.46     | 74.00      | 41.12      | 35.74          | 8.92       | 34.24               | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

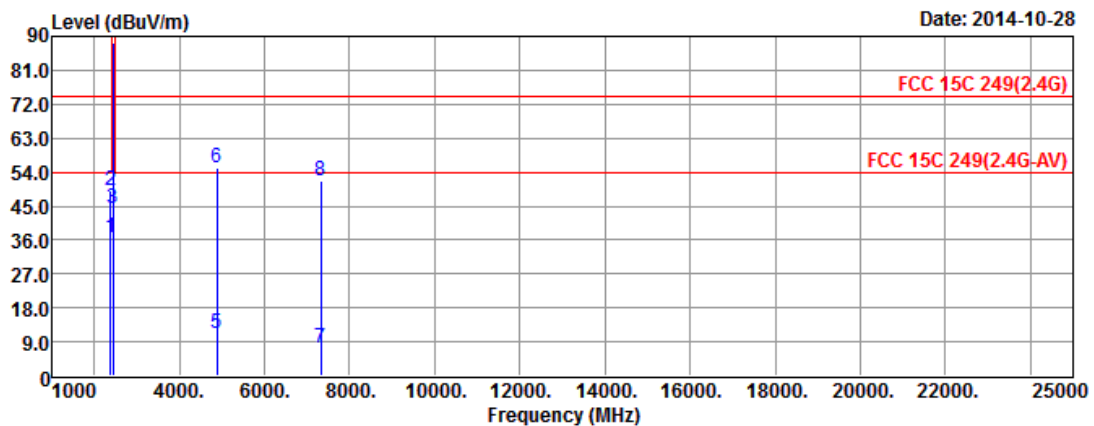
Note 2: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 3: For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 4: If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                           |               |                         |      |
|---------------------------|---------------|-------------------------|------|
| <b>Modulation Mode</b>    | GFSK-Transmit | <b>Test Freq. (MHz)</b> | 2440 |
| <b>Operating Function</b> | Transmit      | <b>Polarization</b>     | V    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 36.41  | -17.59     | 54.00      | 39.03      | 27.26          | 4.60       | 34.48        | ---   | ---   | Average |
| 2 | 2390.00 | 49.25  | -24.75     | 74.00      | 51.87      | 27.26          | 4.60       | 34.48        | ---   | ---   | Peak    |
| 3 | 2440.00 | 44.16  | -49.84     | 94.00      | 46.57      | 27.37          | 4.67       | 34.45        | ---   | ---   | Average |
| 4 | 2440.00 | 88.41  | -25.59     | 114.00     | 90.82      | 27.37          | 4.67       | 34.45        | ---   | ---   | Peak    |
| 5 | 4880.00 | 11.08  | -42.92     | 54.00      | 6.07       | 31.23          | 6.73       | 32.95        | ---   | ---   | Average |
| 6 | 4880.00 | 55.33  | -18.67     | 74.00      | 50.32      | 31.23          | 6.73       | 32.95        | ---   | ---   | Peak    |
| 7 | 7320.00 | 7.24   | -46.76     | 54.00      | -3.37      | 36.03          | 8.98       | 34.40        | ---   | ---   | Average |
| 8 | 7320.00 | 51.49  | -22.51     | 74.00      | 40.88      | 36.03          | 8.98       | 34.40        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

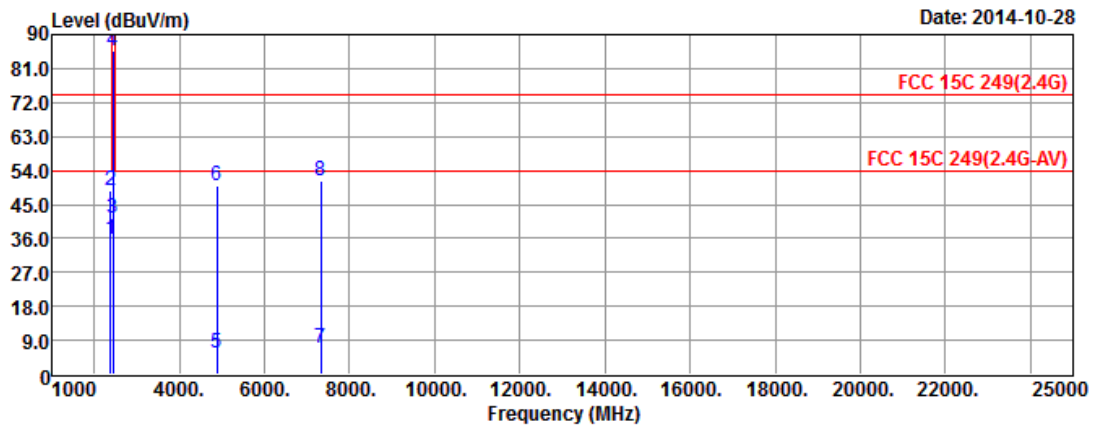
Note 2: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 3: For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 4: If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                           |               |                         |      |
|---------------------------|---------------|-------------------------|------|
| <b>Modulation Mode</b>    | GFSK-Transmit | <b>Test Freq. (MHz)</b> | 2440 |
| <b>Operating Function</b> | Transmit      | <b>Polarization</b>     | H    |



|   | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|---|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|   | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1 | 2390.00 | 35.83  | -18.17     | 54.00      | 38.45      | 27.26          | 4.60       | 34.48        | ---   | ---   | Average |
| 2 | 2390.00 | 48.61  | -25.39     | 74.00      | 51.23      | 27.26          | 4.60       | 34.48        | ---   | ---   | Peak    |
| 3 | 2440.00 | 41.39  | -52.61     | 94.00      | 43.80      | 27.37          | 4.67       | 34.45        | ---   | ---   | Average |
| 4 | 2440.00 | 85.64  | -28.36     | 114.00     | 88.05      | 27.37          | 4.67       | 34.45        | ---   | ---   | Peak    |
| 5 | 4880.00 | 5.71   | -48.29     | 54.00      | 0.70       | 31.23          | 6.73       | 32.95        | ---   | ---   | Average |
| 6 | 4880.00 | 49.96  | -24.04     | 74.00      | 44.95      | 31.23          | 6.73       | 32.95        | ---   | ---   | Peak    |
| 7 | 7320.00 | 7.07   | -46.93     | 54.00      | -3.54      | 36.03          | 8.98       | 34.40        | ---   | ---   | Average |
| 8 | 7320.00 | 51.32  | -22.68     | 74.00      | 40.71      | 36.03          | 8.98       | 34.40        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

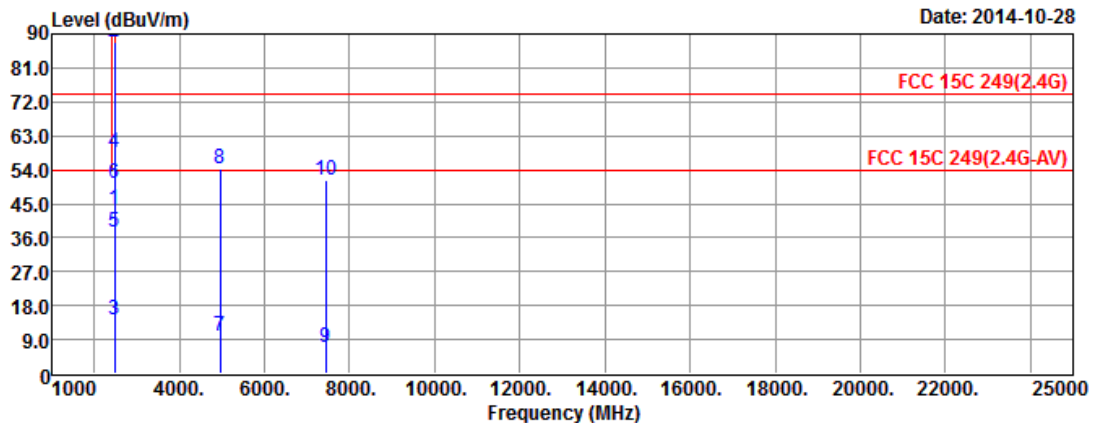
Note 2: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 3: For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 4: If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                           |               |                         |      |
|---------------------------|---------------|-------------------------|------|
| <b>Modulation Mode</b>    | GFSK-Transmit | <b>Test Freq. (MHz)</b> | 2480 |
| <b>Operating Function</b> | Transmit      | <b>Polarization</b>     | V    |



|    | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|----|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|    | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1  | 2480.00 | 43.50  | -50.50     | 94.00      | 45.73      | 27.46          | 4.73       | 34.42        | ---   | ---   | Average |
| 2  | 2480.00 | 87.75  | -26.25     | 114.00     | 89.98      | 27.46          | 4.73       | 34.42        | ---   | ---   | Peak    |
| 3  | 2483.50 | 14.28  | -39.72     | 54.00      | 16.50      | 27.46          | 4.74       | 34.42        | ---   | ---   | Average |
| 4  | 2483.50 | 58.53  | -15.47     | 74.00      | 60.75      | 27.46          | 4.74       | 34.42        | ---   | ---   | Peak    |
| 5  | 2486.00 | 37.63  | -16.37     | 54.00      | 39.84      | 27.47          | 4.74       | 34.42        | ---   | ---   | Average |
| 6  | 2486.00 | 50.59  | -23.41     | 74.00      | 52.80      | 27.47          | 4.74       | 34.42        | ---   | ---   | Peak    |
| 7  | 4960.00 | 9.84   | -44.16     | 54.00      | 4.69       | 31.34          | 6.72       | 32.91        | ---   | ---   | Average |
| 8  | 4960.00 | 54.09  | -19.91     | 74.00      | 48.94      | 31.34          | 6.72       | 32.91        | ---   | ---   | Peak    |
| 9  | 7440.00 | 7.07   | -46.93     | 54.00      | -3.76      | 36.34          | 9.06       | 34.57        | ---   | ---   | Average |
| 10 | 7440.00 | 51.32  | -22.68     | 74.00      | 40.49      | 36.34          | 9.06       | 34.57        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

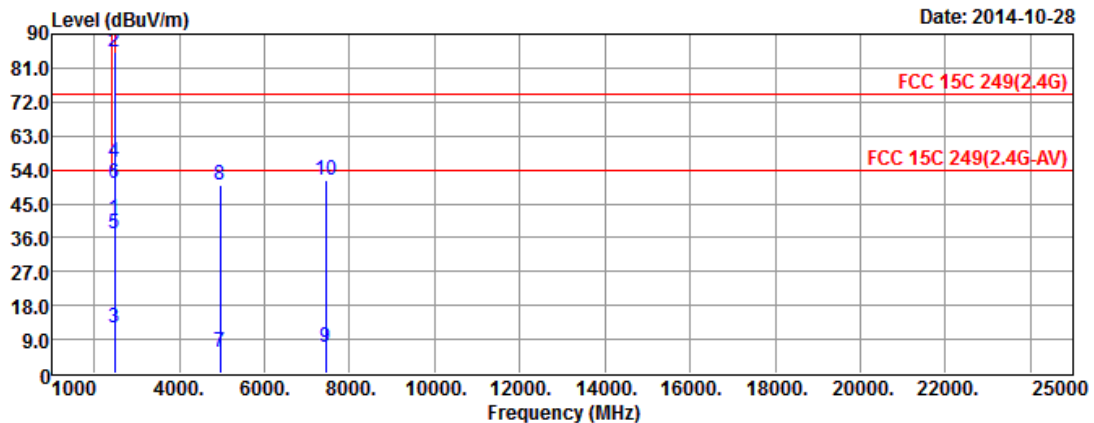
Note 3: For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 4: If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle).



**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                           |               |                         |      |
|---------------------------|---------------|-------------------------|------|
| <b>Modulation Mode</b>    | GFSK-Transmit | <b>Test Freq. (MHz)</b> | 2480 |
| <b>Operating Function</b> | Transmit      | <b>Polarization</b>     | H    |



|    | Freq    | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamplifier | A/Pos | T/Pos | Remark  |
|----|---------|--------|------------|------------|------------|----------------|------------|--------------|-------|-------|---------|
|    | MHz     | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB           | cm    | deg   |         |
| 1  | 2480.00 | 41.09  | -52.91     | 94.00      | 43.32      | 27.46          | 4.73       | 34.42        | ---   | ---   | Average |
| 2  | 2480.00 | 85.34  | -28.66     | 114.00     | 87.57      | 27.46          | 4.73       | 34.42        | ---   | ---   | Peak    |
| 3  | 2483.50 | 11.87  | -42.13     | 54.00      | 14.09      | 27.46          | 4.74       | 34.42        | ---   | ---   | Average |
| 4  | 2483.50 | 56.12  | -17.88     | 74.00      | 58.34      | 27.46          | 4.74       | 34.42        | ---   | ---   | Peak    |
| 5  | 2486.00 | 37.14  | -16.86     | 54.00      | 39.35      | 27.47          | 4.74       | 34.42        | ---   | ---   | Average |
| 6  | 2486.00 | 50.21  | -23.79     | 74.00      | 52.42      | 27.47          | 4.74       | 34.42        | ---   | ---   | Peak    |
| 7  | 4960.00 | 5.57   | -48.43     | 54.00      | 0.42       | 31.34          | 6.72       | 32.91        | ---   | ---   | Average |
| 8  | 4960.00 | 49.82  | -24.18     | 74.00      | 44.67      | 31.34          | 6.72       | 32.91        | ---   | ---   | Peak    |
| 9  | 7440.00 | 6.81   | -47.19     | 54.00      | -4.02      | 36.34          | 9.06       | 34.57        | ---   | ---   | Average |
| 10 | 7440.00 | 51.06  | -22.94     | 74.00      | 40.23      | 36.34          | 9.06       | 34.57        | ---   | ---   | Peak    |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 3: For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 4: If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle).

## 4 Test Equipment and Calibration Data

| Instrument    | Manufacturer | Model No.    | Serial No.  | Characteristics | Calibration Date | Remark                   |
|---------------|--------------|--------------|-------------|-----------------|------------------|--------------------------|
| Spectrum      | R&S          | FSP40        | 100004      | 9kHz ~ 40GHz    | Mar. 27, 2014    | Radiation<br>(03CH03-HY) |
| Amplifier     | HP           | 8447D        | 2944A08033  | 10kHz ~ 1.3GHz  | May 05, 2014     | Radiation<br>(03CH03-HY) |
| Amplifier     | Agilent      | 8449B        | 3008A02120  | 1GHz ~ 26.5GHz  | Sep. 01, 2014    | Radiation<br>(03CH03-HY) |
| Bilog Antenna | SCHAFFNER    | CBL 6112D    | 22237       | 30MHz ~ 1GHz    | Sep. 20, 2014    | Radiation<br>(03CH03-HY) |
| Horn Antenna  | EMCO         | 3115         | 6741        | 1GHz ~ 18GHz    | Jun. 11, 2014    | Radiation<br>(03CH03-HY) |
| Horn Antenna  | SCHWARZBECK  | BBHA9170     | BBHA9170154 | 15GHz ~ 40GHz   | Jan. 10, 2014    | Radiation<br>(03CH03-HY) |
| RF Cable-R03m | Jye Bao      | RG142        | CB021       | 9kHz ~ 1GHz     | Nov. 16, 2013    | Radiation<br>(03CH03-HY) |
| RF Cable-high | SUHNER       | SUCOFLEX 106 | 03CH03-HY   | 1GHz ~ 40GHz    | Dec. 11, 2013    | Radiation<br>(03CH03-HY) |
| Software      | Audix        | E3           | 4.03260c    | Radiate         | NCR              | Radiation<br>(03CH03-HY) |

Note: Calibration Interval of instruments listed above is one year.

| Instrument   | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark                   |
|--------------|--------------|-----------|------------|-----------------|------------------|--------------------------|
| Amplifier    | EM           | EM18G40G  | 060604     | 18GHz ~ 40GHz   | Oct. 17.2013     | Radiation<br>(03CH03-HY) |
| Loop Antenna | TESEQ        | HLA 6120  | 31244      | 9kHz ~ 30MHz    | Dec. 02, 2012    | Radiation<br>(03CH03-HY) |

Note: Calibration Interval of instruments listed above is two year.