

TEST REPORT

Report No.: **BCTC2103308711-1E**

Applicant: **Shenzhen Nakinmi Smart Technology Co., Ltd**

Product Name: **SmartWatch**

Model/Type Ref.: **MV60PRO**

Tested Date: **2021-03-23 to 2021-03-29**

Issued Date: **2021-03-29**

Shenzhen BCTC Testing Co., Ltd.



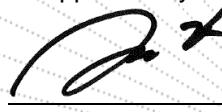
FCC ID: 2AYAD-MV60PRO

Product Name: SmartWatch
Trademark: N/A
Model/Type Ref.: MV60PRO
Model/Type Ref.: MV26, MV28, MV39, MK6, MK8, MK9, MK10, MK30, MK80, MK88, LK6, LK8, LK9, LK10, LQ10, MR10, MR30, QQ30, QQ31
Prepared For: Shenzhen Nakinmi Smart Technology Co., Ltd
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Manufacturer: Shenzhen Nakinmi Smart Technology Co., Ltd
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Sample Received Date: 2021-03-23
Sample tested Date: 2021-03-23 to 2021-03-29
Issue Date: 2021-03-29
Report No.: BCTC2103308711-1E
Test Standards: FCC Part15.247
ANSI C63.10-2013
Test Results: PASS
Remark: This is Bluetooth BLE radio test report.

Tested by:


Lei Chen
Lei Chen/Project Handler

Approved by:


Zero Zhou
Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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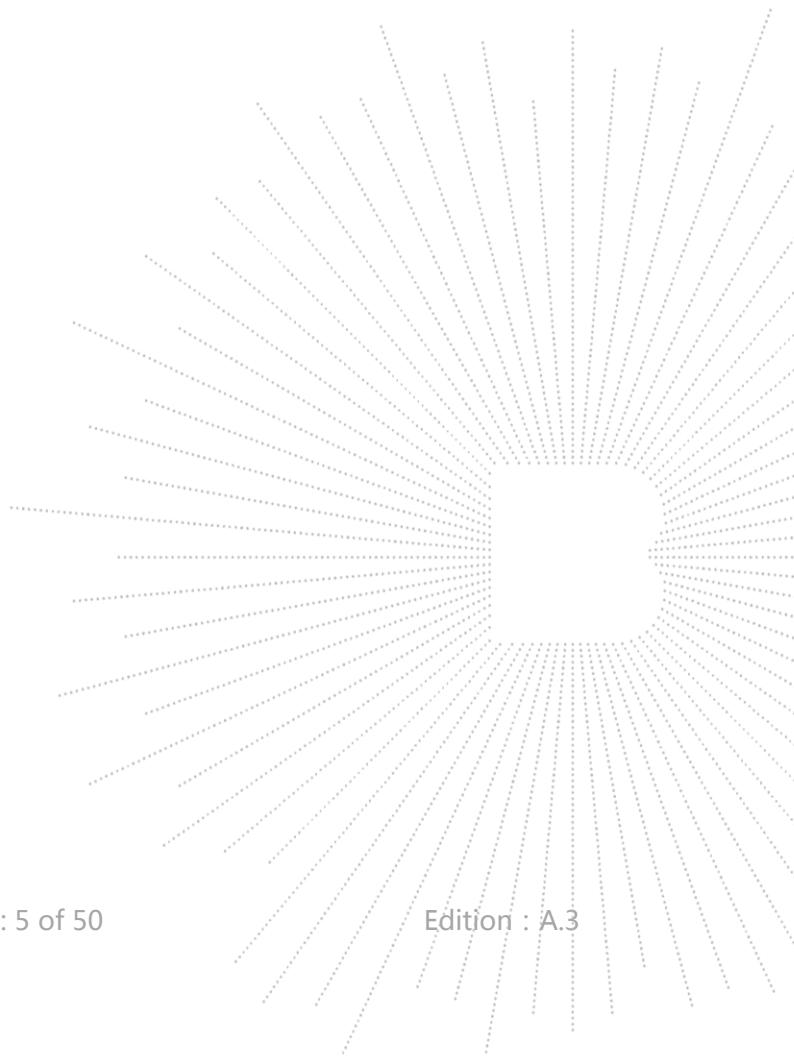
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(Note: N/A means not applicable)

1. VERSION

| Report No. | Issue Date | Description | Approved |
|-------------------|------------|-------------|----------|
| BCTC2103308711-1E | 2021-03-29 | Original | Valid |
| | | | |



2. TEST SUMMARY

The Product has been tested according to the following specifications:

| No. | Test Parameter | Clause No | Results |
|-----|-----------------------------------|-----------------------|---------|
| 1 | Conducted Emission | 15.207 | PASS |
| 2 | 6dB Bandwidth | 15.247 (a)(2) | PASS |
| 3 | Peak Output Power | 15.247 (b) | PASS |
| 4 | Radiated Spurious Emission | 15.247 (d), 15.205 | PASS |
| 5 | Power Spectral Density | 15.247 (e) | PASS |
| 6 | Restricted Band of Operation | 15.205 | PASS |
| 7 | Band Edge (Out of Band Emissions) | 15.247(d) | PASS |
| 8 | Antenna Requirement | 15.203 | PASS |

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

| No. | Item | Uncertainty |
|-----|--|----------------------------------|
| 1 | 3m chamber Radiated spurious emission(30MHz-1GHz) | $U=4.3\text{dB}$ |
| 2 | 3m chamber Radiated spurious emission(1GHz-18GHz) | $U=4.5\text{dB}$ |
| 3 | 3m chamber Radiated spurious emission(18GHz-40GHz) | $U=3.34\text{dB}$ |
| 4 | Conducted Adjacent channel power | $U=1.38\text{dB}$ |
| 5 | Conducted output power uncertainty Above 1G | $U=1.576\text{dB}$ |
| 6 | Conducted output power uncertainty below 1G | $U=1.28\text{dB}$ |
| 7 | humidity uncertainty | $U=5.3\%$ |
| 8 | Temperature uncertainty | $U=0.59\text{ }^{\circ}\text{C}$ |

4. PRODUCT INFORMATION AND TEST SETUP

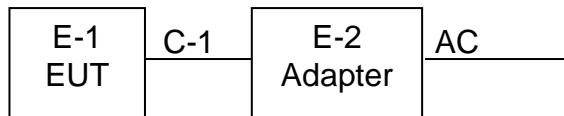
4.1 Product Information

| | |
|-----------------------|--|
| Model/Type Ref.: | MV60PRO |
| | MV26, MV28, MV39, MK6, MK8, MK9, MK10, MK30, MK80, MK88, LK6, LK8, LK9, LK10, LQ10, MR10, MR30, QQ30, QQ31 |
| Model differences: | All the model are the same circuit and RF module, except model names. |
| Bluetooth Version: | BT 5.0 |
| Hardware Version: | N/A |
| Software Version: | N/A |
| Operation Frequency: | Bluetooth: 2402-2480MHz |
| Type of Modulation: | Bluetooth: GFSK |
| Number Of Channel | 40CH |
| Antenna installation: | Internal antenna |
| Antenna Gain: | Bluetooth : 0.2dBi |
| Ratings: | USB:DC 5V |
| | Battery: DC 3.7V |

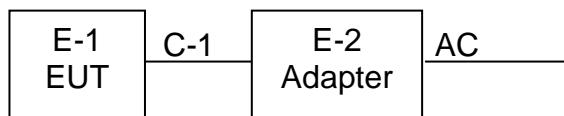
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission:



4.3 Support Equipment

| No. | Device Type | Brand | Model | Series No. | Note |
|-----|-------------|-------|---------|------------|-----------|
| E-1 | SmartWatch | N/A | MV60PRO | N/A | EUT |
| E-2 | Adapter | N/A | BCTC001 | N/A | Auxiliary |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|---------------------|
| C-1 | NO | NO | 0.4M | DC cable unshielded |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

| Channel List | | | | | |
|--------------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01 | 2402 | 11 | 2422 | 21 | 2442 |
| 02 | 2404 | 12 | 2424 | 22 | 2444 |
| 03 | 2406 | 13 | 2426 | 23 | 2446 |
| ~ | ~ | ~ | ~ | ~ | ~ |
| 09 | 2418 | 19 | 2438 | 39 | 2478 |
| 10 | 2420 | 20 | 2440 | 40 | 2480 |

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| For All Mode | Description | Modulation Type | |
|--------------|--------------------------------|-----------------|--|
| Mode 1 | CH01 | GFSK | |
| Mode 2 | CH20 | | |
| Mode 3 | CH40 | | |
| Mode 4 | Charging (Conducted emission) | | |
| Mode 5 | Link mode (Radiated emission) | | |

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

4.6 Table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

| Test software Version | rf_console.exe | | |
|-----------------------|----------------|----------|----------|
| Frequency | 2402 MHz | 2440 MHz | 2480 MHz |
| Parameters | DEF | DEF | DEF |

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

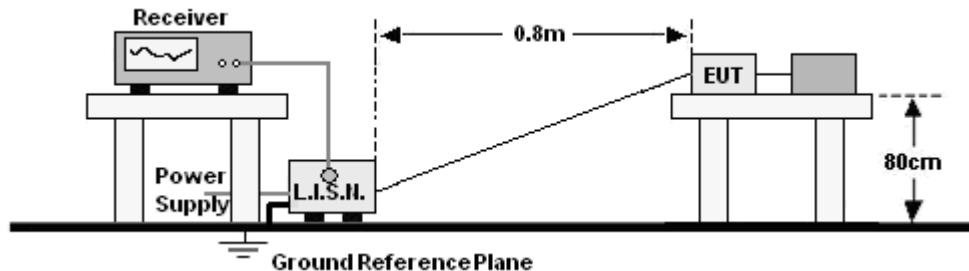
5.2 Test Instrument Used

| Conducted emissions Test | | | | | |
|--------------------------|--------------|----------|-----------------|---------------|---------------|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. |
| Receiver | R&S | ESR3 | 102075 | Jun. 08, 2020 | Jun. 07, 2021 |
| LISN | R&S | ENV216 | 101375 | Jun. 04, 2020 | Jun. 03, 2021 |
| ISN | HPX | ISN T800 | S150900 1 | Jun. 04, 2020 | Jun. 03, 2021 |
| Software | Frad | EZ-EMC | EMC-CO N 3A1 | \ | \ |

| Radiated emissions Test (966 chamber) | | | | | |
|---------------------------------------|--------------|----------------|---------------|---------------|---------------|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. |
| 966 chamber | ChengYu | 966 Room | 966 | Jun. 06. 2020 | Jun. 05, 2023 |
| Receiver | R&S | ESR3 | 102075 | Jun. 08, 2020 | Jun. 07, 2021 |
| Receiver | R&S | ESRP | 101154 | Jun. 08, 2020 | Jun. 07, 2021 |
| Amplifier | Schwarzbeck | BBV9718 | 9718-309 | Jun. 04, 2020 | Jun. 03, 2021 |
| Amplifier | Schwarzbeck | BBV9744 | 9744-0037 | Jun. 04, 2020 | Jun. 03, 2021 |
| TRILOG Broadband Antenna | schwarzbeck | VULB 9163 | VULB9163 -942 | Jun. 08, 2020 | Jun. 07, 2021 |
| Horn Antenna | SCHWARZBECK | BBHA9120 D | 1541 | Jun. 10, 2020 | Jun. 09, 2021 |
| Horn Antenna (18GHz-40 GHz) | SCHWARZBECK | BBHA9170 | 822 | Jun. 10, 2020 | Jun. 09, 2021 |
| Amplifier (18GHz-40 GHz) | MITEQ | TTA1840-3 5-HG | 2034381 | Jun. 08, 2020 | Jun. 07, 2021 |
| Loop Antenna (9KHz-30MHz) | SCHWARZBECK | FMZB1519 B | 014 | Jun. 08, 2020 | Jun. 07, 2021 |
| RF cables1 (9kHz-30MHz) | Huber+Suhnar | 9kHz-30MHz | B1702988-0008 | Jun. 08, 2020 | Jun. 07, 2021 |
| RF cables2 (30MHz-1GHz) | Huber+Suhnar | 30MHz-1GHz | 1486150 | Jun. 08, 2020 | Jun. 07, 2021 |
| RF cables3 (1GHz-40GHz) | Huber+Suhnar | 1GHz-40GHz | 1607106 | Jun. 08, 2020 | Jun. 07, 2021 |
| Power Meter | Keysight | E4419B | \ | Jun. 08, 2020 | Jun. 07, 2021 |
| Power Sensor (AV) | Keysight | E9 300A | \ | Jun. 08, 2020 | Jun. 07, 2021 |
| Signal Analyzer 20kHz-26.5 GHz | KEYSIGHT | N9020A | MY491000 60 | Jun. 04, 2020 | Jun. 03, 2021 |
| Spectrum Analyzer 9kHz-40GHz | Agilent | FSP40 | 100363 | Jun. 08, 2020 | Jun. 07, 2021 |
| Software | Frad | EZ-EMC | FA-03A2 RE | \ | \ |

6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

| FREQUENCY (MHz) | Limit (dBuV) | |
|-----------------|--------------|-----------|
| | Quas-peak | Average |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

Notes:

1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

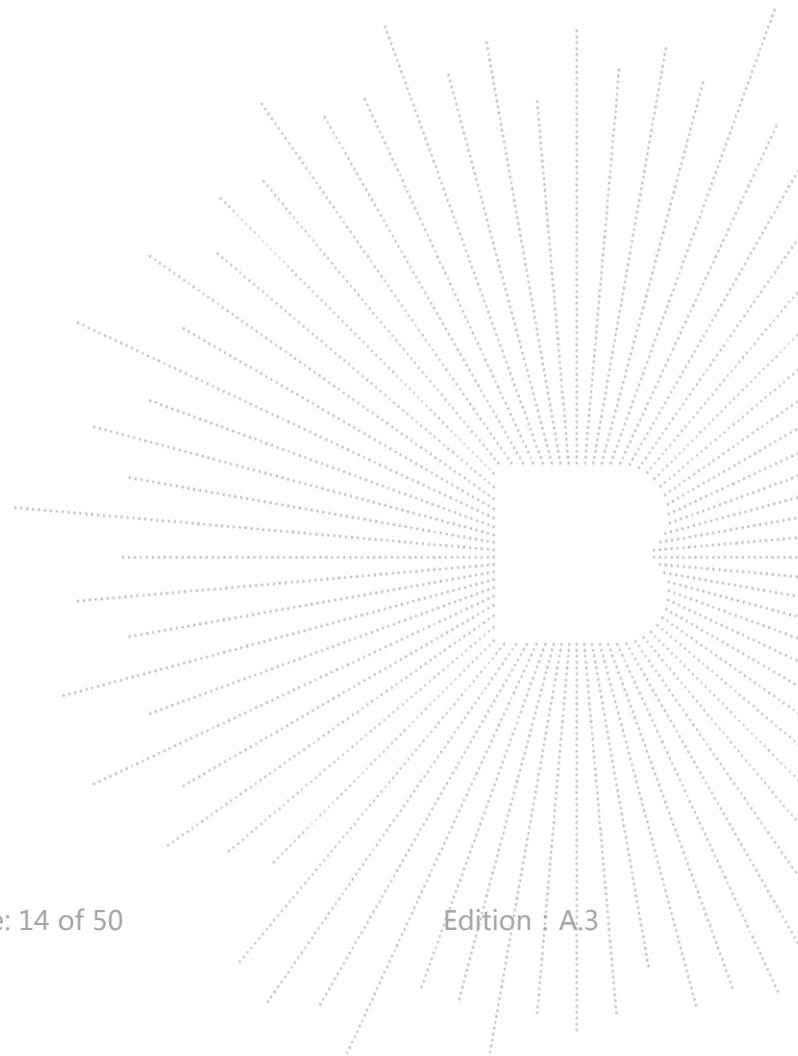
6.3 Test procedure

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N.).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

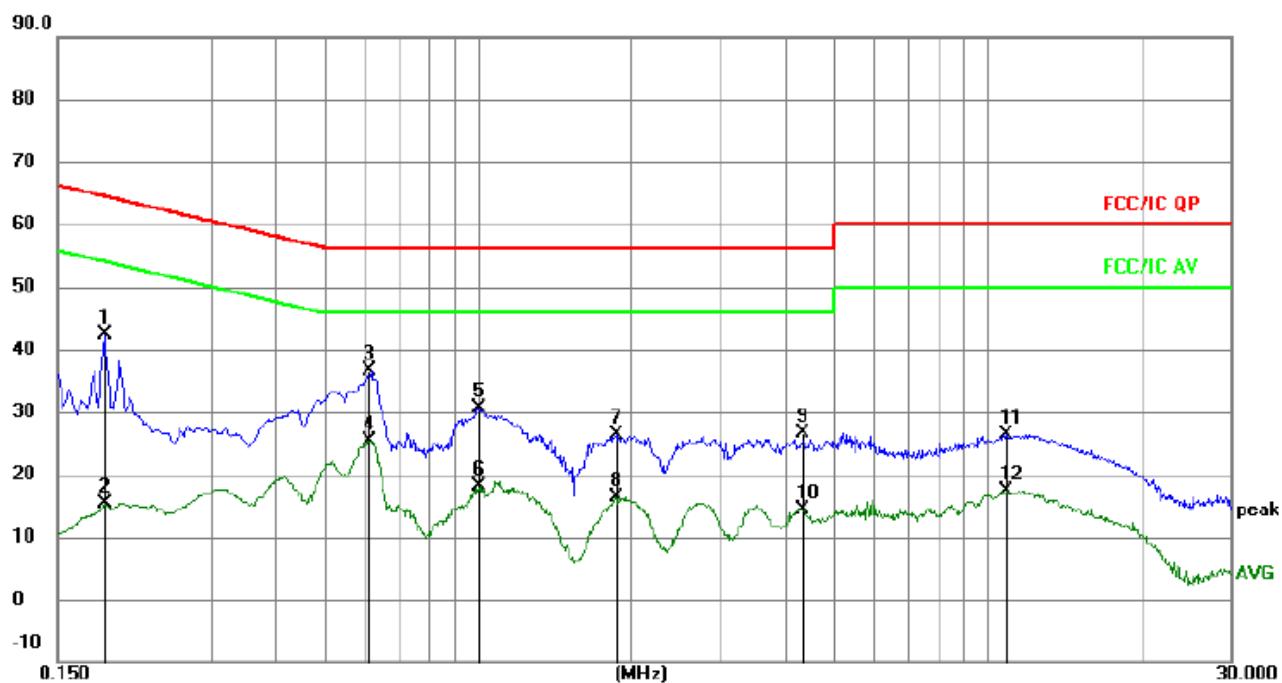
6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



6.5 Test Result

| | | | |
|----------------|--------------|---------------------|--------|
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 101kPa | Phase : | L |
| Test Voltage : | AC 120V/60Hz | Test Mode : | Mode 4 |

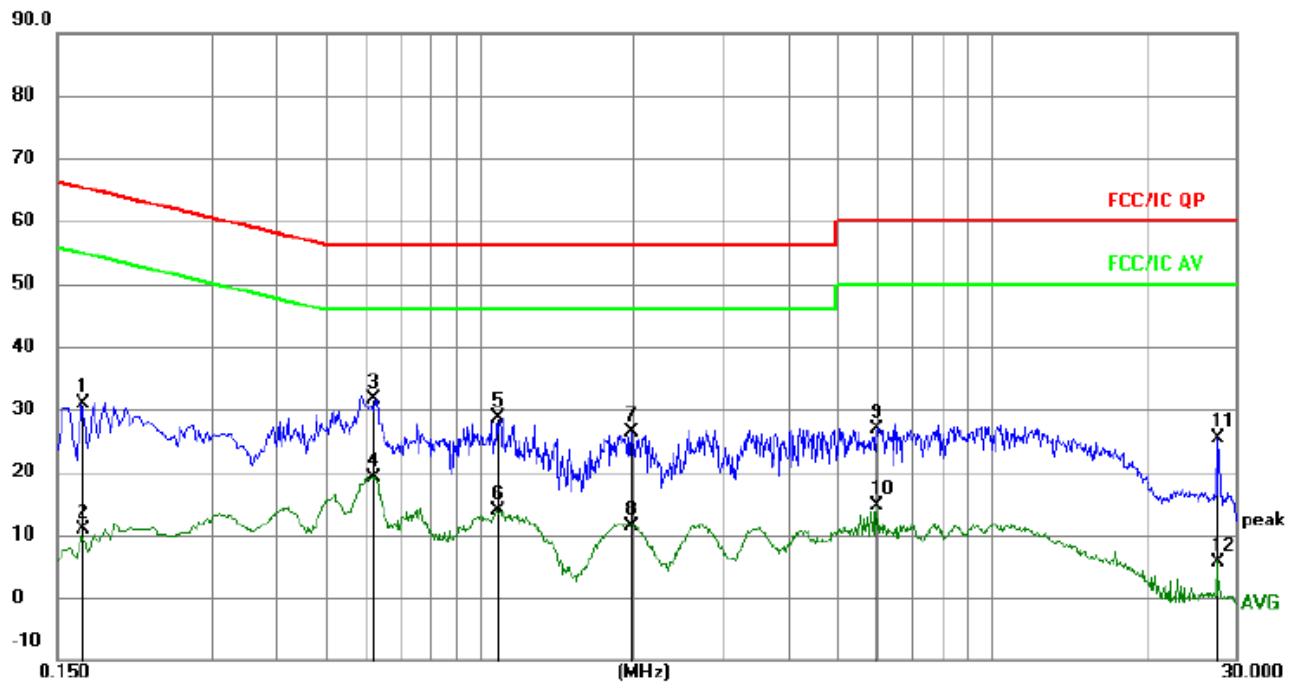


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Detector |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | |
| | | MHz | | dB | dBuV | dBuV | dB | |
| 1 | | 0.1860 | 33.00 | 9.48 | 42.48 | 64.21 | -21.73 | QP |
| 2 | | 0.1860 | 5.99 | 9.48 | 15.47 | 54.21 | -38.74 | AVG |
| 3 * | | 0.6134 | 26.73 | 9.95 | 36.68 | 56.00 | -19.32 | QP |
| 4 | | 0.6134 | 15.50 | 9.95 | 25.45 | 46.00 | -20.55 | AVG |
| 5 | | 1.0005 | 21.06 | 9.57 | 30.63 | 56.00 | -25.37 | QP |
| 6 | | 1.0005 | 8.64 | 9.57 | 18.21 | 46.00 | -27.79 | AVG |
| 7 | | 1.8690 | 16.67 | 9.59 | 26.26 | 56.00 | -29.74 | QP |
| 8 | | 1.8690 | 6.84 | 9.59 | 16.43 | 46.00 | -29.57 | AVG |
| 9 | | 4.3350 | 16.87 | 9.75 | 26.62 | 56.00 | -29.38 | QP |
| 10 | | 4.3350 | 4.69 | 9.75 | 14.44 | 46.00 | -31.56 | AVG |
| 11 | | 10.8555 | 16.70 | 9.69 | 26.39 | 60.00 | -33.61 | QP |
| 12 | | 10.8555 | 7.79 | 9.69 | 17.48 | 50.00 | -32.52 | AVG |

| | | | |
|----------------|--------------|---------------------|--------|
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 101kPa | Phase : | N |
| Test Voltage : | AC 120V/60Hz | Test Mode : | Mode 4 |


Remark:

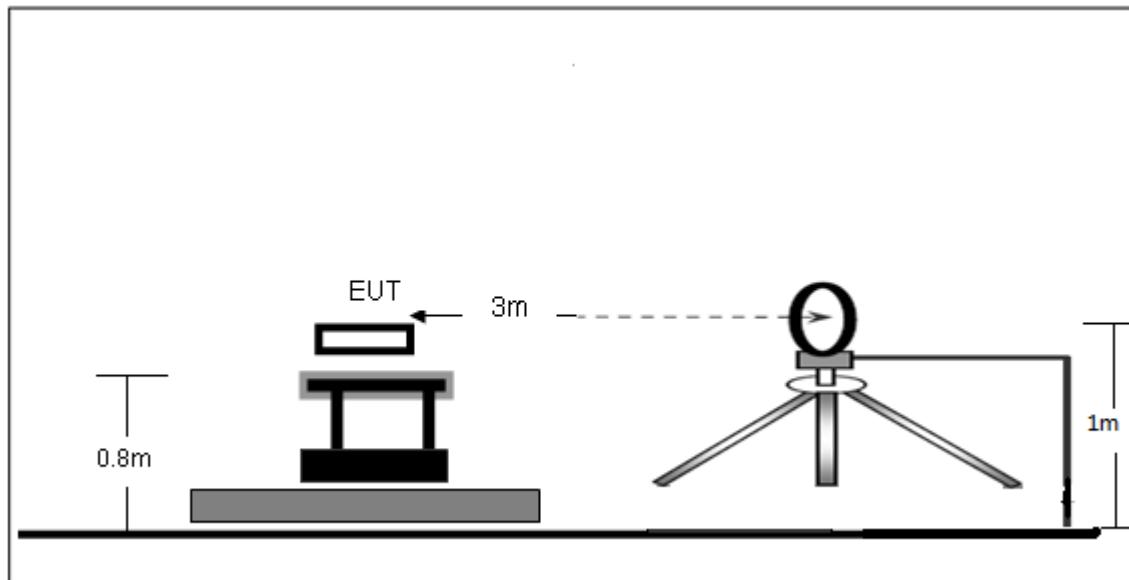
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Detector |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | |
| | | MHz | | dB | dBuV | dBuV | dB | |
| 1 | | 0.1677 | 21.43 | 9.50 | 30.93 | 65.07 | -34.14 | QP |
| 2 | | 0.1677 | 1.31 | 9.50 | 10.81 | 55.07 | -44.26 | AVG |
| 3 * | | 0.6173 | 21.79 | 9.94 | 31.73 | 56.00 | -24.27 | QP |
| 4 | | 0.6173 | 9.22 | 9.94 | 19.16 | 46.00 | -26.84 | AVG |
| 5 | | 1.0824 | 19.04 | 9.57 | 28.61 | 56.00 | -27.39 | QP |
| 6 | | 1.0824 | 4.24 | 9.57 | 13.81 | 46.00 | -32.19 | AVG |
| 7 | | 1.9801 | 16.85 | 9.59 | 26.44 | 56.00 | -29.56 | QP |
| 8 | | 1.9801 | 1.77 | 9.59 | 11.36 | 46.00 | -34.64 | AVG |
| 9 | | 5.9608 | 17.19 | 9.76 | 26.95 | 60.00 | -33.05 | QP |
| 10 | | 5.9608 | 4.82 | 9.76 | 14.58 | 50.00 | -35.42 | AVG |
| 11 | | 27.5616 | 15.56 | 9.72 | 25.28 | 60.00 | -34.72 | QP |
| 12 | | 27.5616 | -3.97 | 9.72 | 5.75 | 50.00 | -44.25 | AVG |

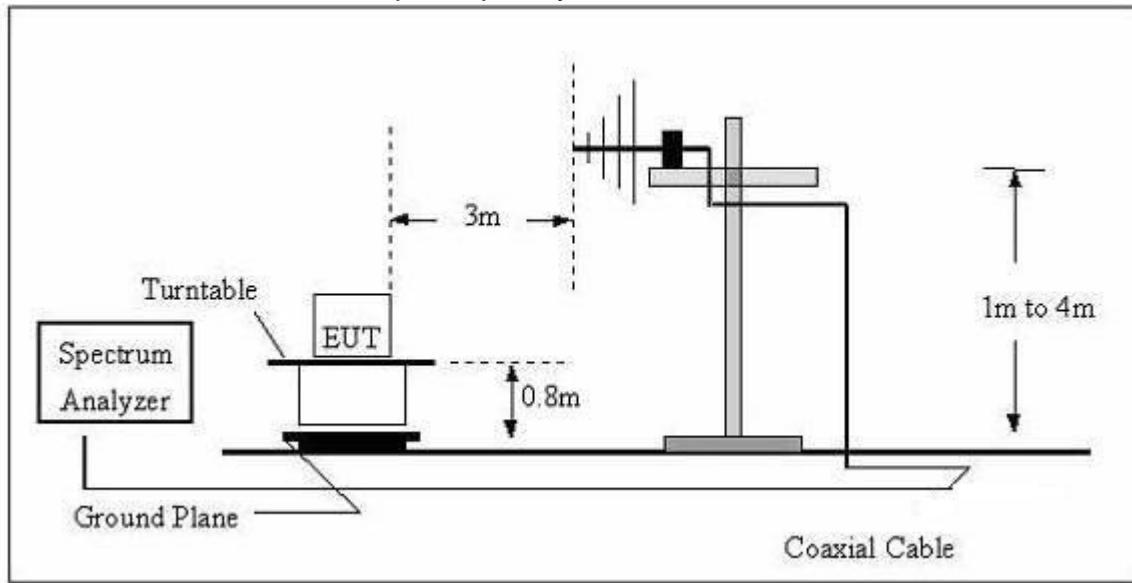
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

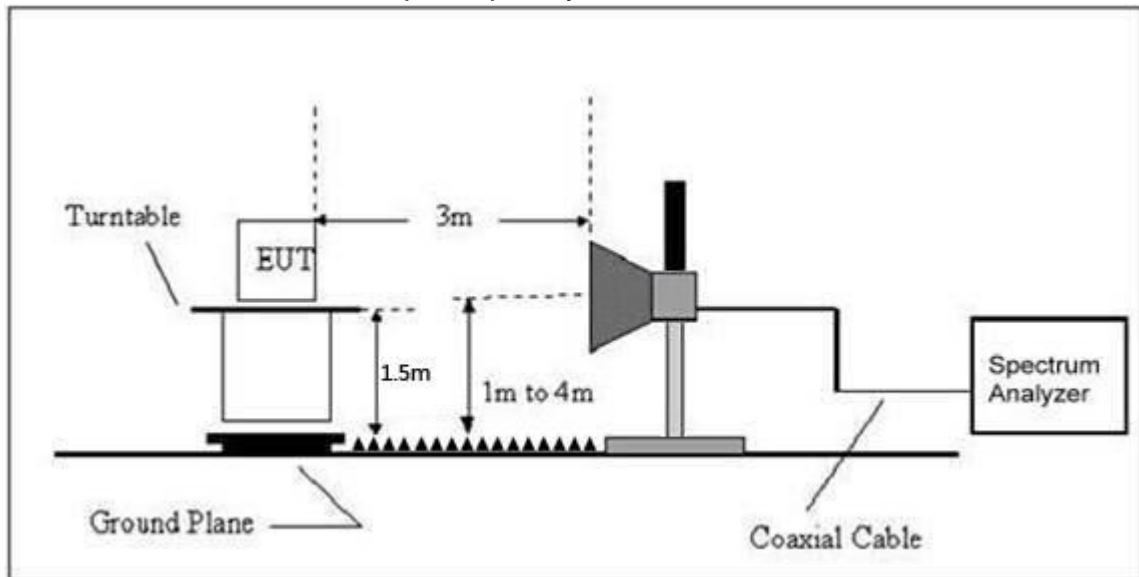
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequency (MHz) | Field Strength uV/m | Distance (m) | Field Strength Limit at 3m Distance | |
|--------------------|------------------------|-----------------|-------------------------------------|--------------------------------------|
| | | | uV/m | dBuV/m |
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 | 10000 * 2400/F(kHz) | 20log ^{(2400/F(kHz))} + 80 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 | 100 * 24000/F(kHz) | 20log ^{(24000/F(kHz))} + 40 |
| 1.705 ~ 30 | 30 | 30 | 100 * 30 | 20log ⁽³⁰⁾ + 40 |
| 30 ~ 88 | 100 | 3 | 100 | 20log ⁽¹⁰⁰⁾ |
| 88 ~ 216 | 150 | 3 | 150 | 20log ⁽¹⁵⁰⁾ |
| 216 ~ 960 | 200 | 3 | 200 | 20log ⁽²⁰⁰⁾ |
| Above 960 | 500 | 3 | 500 | 20log ⁽⁵⁰⁰⁾ |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENC Y (MHz) | Limit (dBuV/m) (at 3M) | |
|---------------------|------------------------|---------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz) |
|--|--|
| Below 1.705 | 30 |
| 1.705 – 108 | 1000 |
| 108 – 500 | 2000 |
| 500 – 1000 | 5000 |
| Above 1000 | 5 th harmonic of the highest frequency or 40 GHz, whichever is lower |

7.3 Test procedure

| Receiver Parameter | Setting |
|--------------------|-------------------|
| Attenuation | Auto |
| 9kHz~150kHz | RBW 200Hz for QP |
| 150kHz~30MHz | RBW 9kHz for QP |
| 30MHz~1000MHz | RBW 120kHz for QP |

| Spectrum Parameter | Setting |
|--------------------|--|
| 1-25GHz | RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average |

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).

h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Above 1GHz test procedure as below:

a.The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

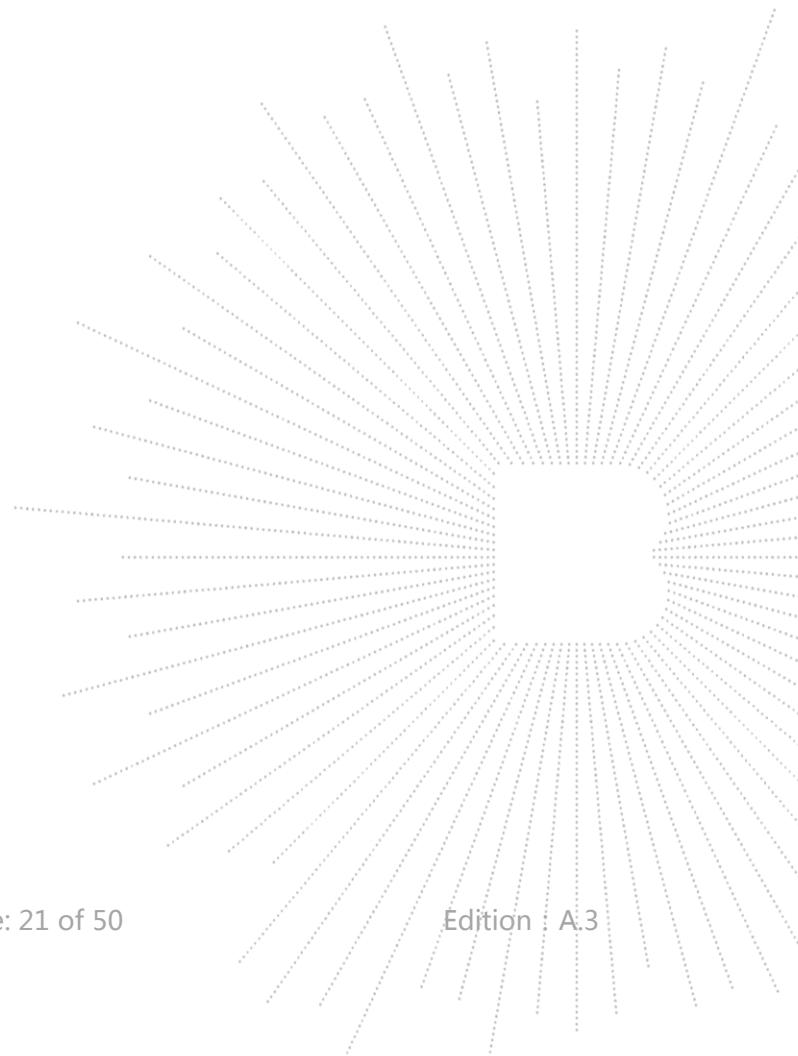
g.Test the EUT in the lowest channel,the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



7.5 Test Result

Below 30MHz

| | | | |
|--------------|---------|--------------------|---------|
| Temperature: | 26°C | Relative Humidity: | 24% |
| Pressure: | 101 kPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 5 | Polarization : | -- |

| Freq. (MHz) | Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | State |
|----------------|---------------------|-------------------|----------------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| -- | -- | -- | -- | PASS |
| -- | -- | -- | -- | PASS |

Note:

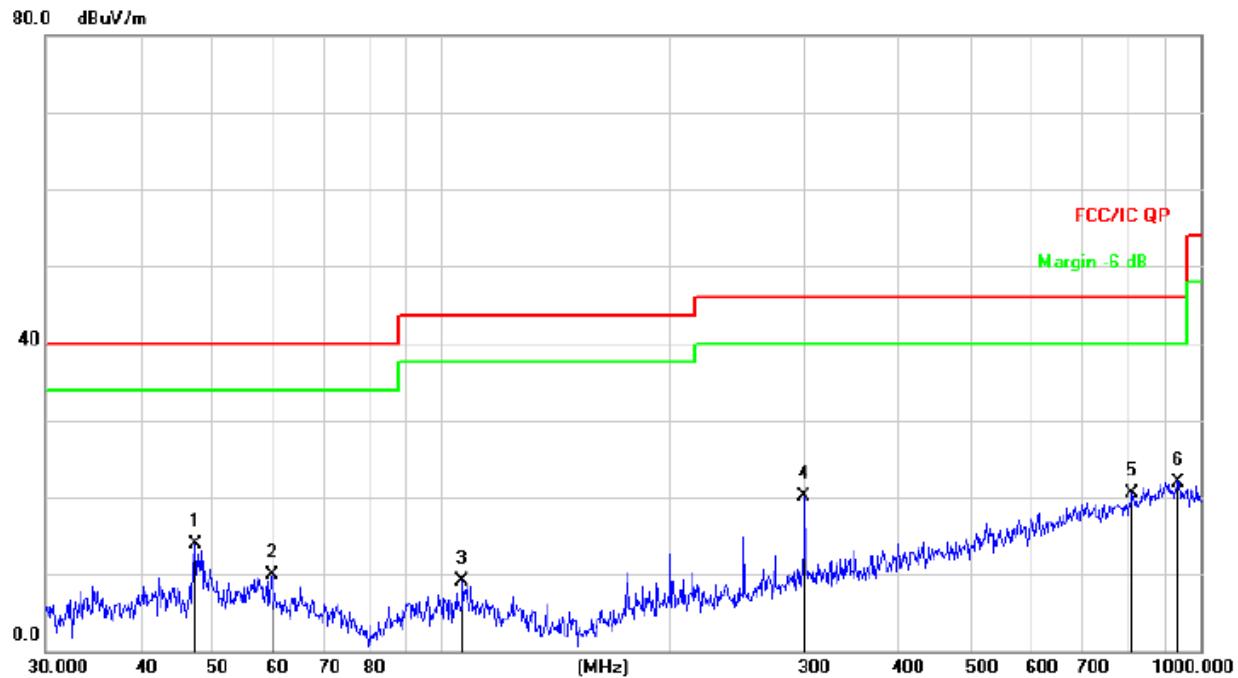
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

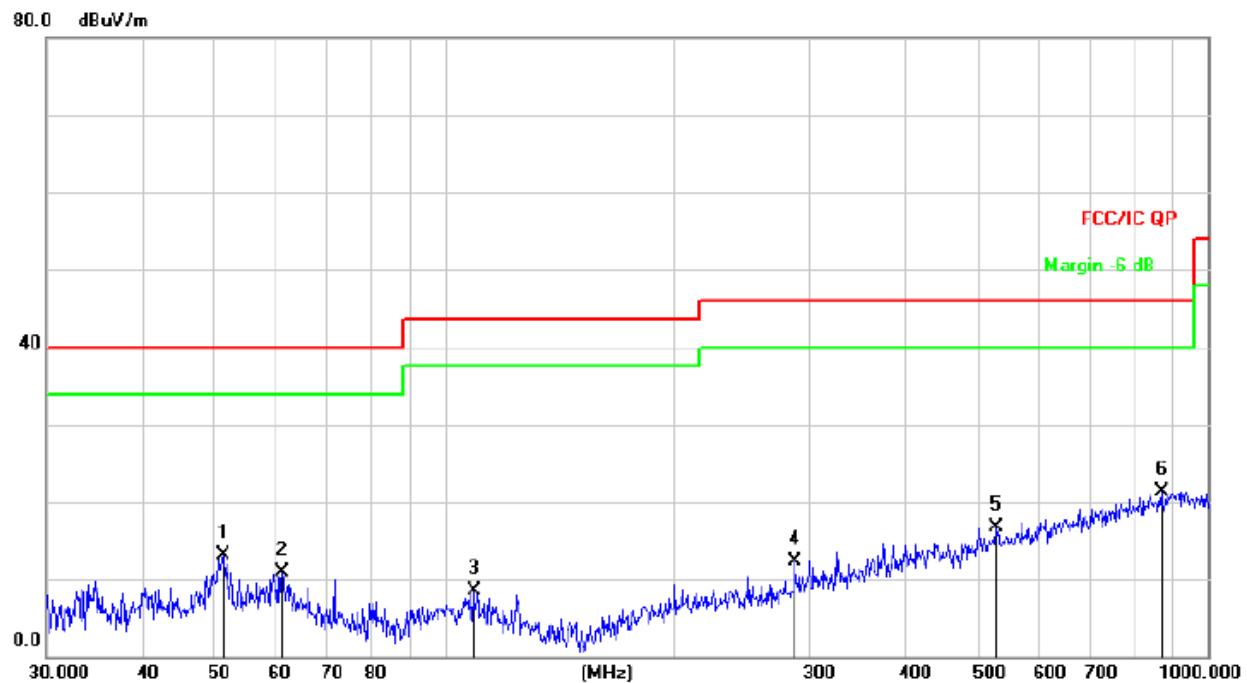
| | | | |
|--------------|---------|--------------------|------------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 5 | Polarization : | Horizontal |


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|-----|----------|---------------|----------------|------------------|-------|--------|----------|
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector |
| 1 | | 47.3255 | 28.22 | -14.31 | 13.91 | 40.00 | -26.09 | QP |
| 2 | | 59.6493 | 24.60 | -14.64 | 9.96 | 40.00 | -30.04 | QP |
| 3 | | 106.3850 | 24.91 | -15.88 | 9.03 | 43.50 | -34.47 | QP |
| 4 | | 300.3672 | 32.56 | -12.39 | 20.17 | 46.00 | -25.83 | QP |
| 5 | | 813.1115 | 22.32 | -1.73 | 20.59 | 46.00 | -25.41 | QP |
| 6 | * | 932.2715 | 22.36 | -0.36 | 22.00 | 46.00 | -24.00 | QP |

| | | | |
|--------------|---------|--------------------|----------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kpa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 5 | Polarization : | Vertical |



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over |
|-----|-----|----------|---------|---------|----------|-------|--------|
| | | | Level | Factor | ment | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB |
| 1 | | 51.1209 | 27.29 | -14.15 | 13.14 | 40.00 | -26.86 |
| 2 | | 61.1316 | 25.77 | -14.95 | 10.82 | 40.00 | -29.18 |
| 3 | | 109.0286 | 24.48 | -16.06 | 8.42 | 43.50 | -35.08 |
| 4 | | 287.9904 | 25.22 | -12.84 | 12.38 | 46.00 | -33.62 |
| 5 | | 528.2458 | 23.61 | -6.86 | 16.75 | 46.00 | -29.25 |
| 6 | * | 869.1302 | 21.95 | -0.61 | 21.34 | 46.00 | -24.66 |

Between 1GHz – 25GHz

| GFSK | | | | | | | |
|-----------------------|-----------|------------------|-------------------|------------------|--------------|--------|------------------|
| Polar (H/V) | Frequency | Reading Level | Correct Factor | Measure- ment | Limits | Over | Detector Type |
| | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/ m) | (dB) | |
| Low channel | | | | | | | |
| V | 4804.00 | 52.82 | -0.43 | 52.39 | 74.00 | -21.61 | PK |
| V | 4804.00 | 44.82 | -0.43 | 44.39 | 54.00 | -9.61 | AV |
| V | 7206.00 | 45.20 | 8.31 | 53.51 | 74.00 | -20.49 | PK |
| V | 7206.00 | 34.37 | 8.31 | 42.68 | 54.00 | -11.32 | AV |
| H | 4804.00 | 50.63 | -0.43 | 50.20 | 74.00 | -23.80 | PK |
| H | 4804.00 | 40.06 | -0.43 | 39.63 | 54.00 | -14.37 | AV |
| H | 7206.00 | 43.75 | 8.31 | 52.06 | 74.00 | -21.94 | PK |
| H | 7206.00 | 35.37 | 8.31 | 43.68 | 54.00 | -10.32 | AV |
| Middle channel | | | | | | | |
| V | 4880.00 | 49.41 | -0.38 | 49.03 | 74.00 | -24.97 | PK |
| V | 4880.00 | 43.32 | -0.38 | 42.94 | 54.00 | -11.06 | AV |
| V | 7320.00 | 40.08 | 8.83 | 48.91 | 74.00 | -25.09 | PK |
| V | 7320.00 | 31.44 | 8.83 | 40.27 | 54.00 | -13.73 | AV |
| H | 4880.00 | 45.66 | -0.38 | 45.28 | 74.00 | -28.72 | PK |
| H | 4880.00 | 35.18 | -0.38 | 34.80 | 54.00 | -19.20 | AV |
| H | 7320.00 | 38.32 | 8.83 | 47.15 | 74.00 | -26.85 | PK |
| H | 7320.00 | 30.70 | 8.83 | 39.53 | 54.00 | -14.47 | AV |
| High channel | | | | | | | |
| V | 4960.00 | 52.18 | -0.32 | 51.86 | 74.00 | -22.14 | PK |
| V | 4960.00 | 44.05 | -0.32 | 43.73 | 54.00 | -10.27 | AV |
| V | 7440.00 | 43.53 | 9.35 | 52.88 | 74.00 | -21.12 | PK |
| V | 7440.00 | 34.18 | 9.35 | 43.53 | 54.00 | -10.47 | AV |
| H | 4960.00 | 49.74 | -0.32 | 49.42 | 74.00 | -24.58 | PK |
| H | 4960.00 | 40.29 | -0.32 | 39.97 | 54.00 | -14.03 | AV |
| H | 7440.00 | 41.58 | 9.35 | 50.93 | 74.00 | -23.07 | PK |
| H | 7440.00 | 34.10 | 9.35 | 43.45 | 54.00 | -10.55 | AV |

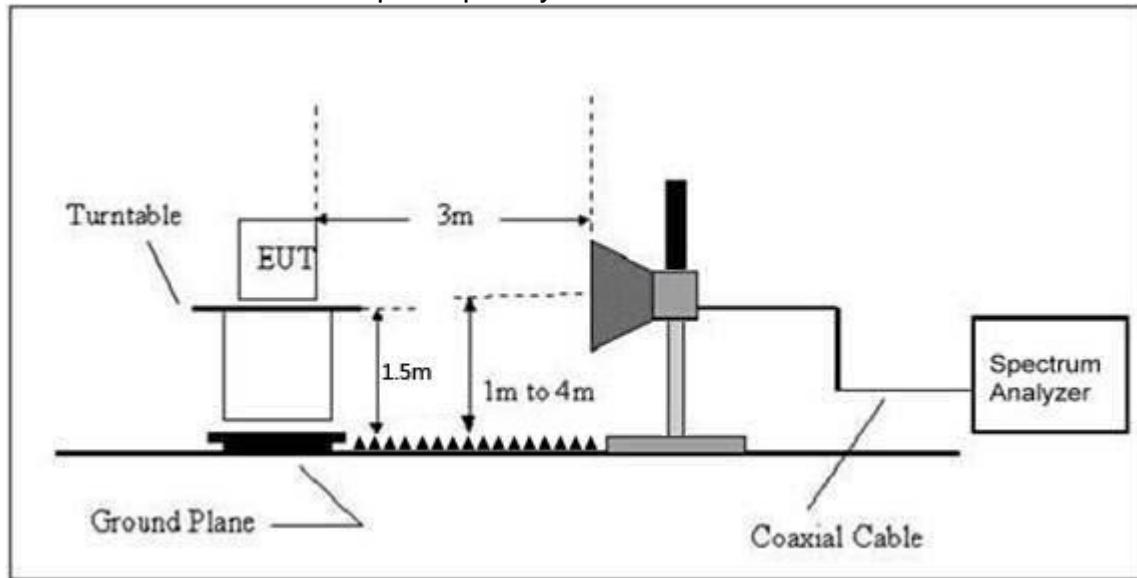
Remark:

1. Emission Level = Meter Reading + Factor,
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Over= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
5. This report only shows the worst case test data.

8. RADIATED BAND EMISSION MEASUREMENT AND RESTRICTED BANDS OF OPERATION

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) | |
|-----------------|------------------------|---------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.
(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

| Receiver Parameter | Setting |
|---------------------------------------|--|
| Attenuation | Auto |
| Start Frequency | 2300MHz |
| Stop Frequency | 2520 |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

Above 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

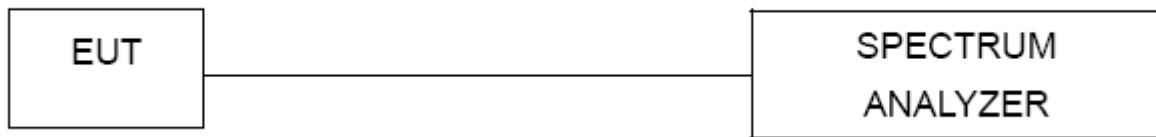
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

| | Polar (H/V) | Frequency (MHz) | Reading Level (dBuV/m) | Correct Factor (dB) | Measure- ment (dBuV/m) | Limits (dBuV/m) | | Result |
|--|-----------------------------|--------------------|------------------------------|---------------------------|------------------------------|--------------------|-------|--------|
| | | | | | | PK | PK | |
| Low Channel 2402MHz | | | | | | | | |
| GFSK (2Mbps) | H | 2390.00 | 57.49 | -6.70 | 50.79 | 74.00 | 54.00 | PASS |
| | H | 2400.00 | 48.73 | -6.71 | 42.02 | 74.00 | 54.00 | PASS |
| | V | 2390.00 | 57.26 | -6.70 | 50.56 | 74.00 | 54.00 | PASS |
| | V | 2400.00 | 49.58 | -6.71 | 42.87 | 74.00 | 54.00 | PASS |
| | High Channel 2480MHz | | | | | | | |
| | H | 2483.50 | 56.06 | -6.79 | 49.27 | 74.00 | 54.00 | PASS |
| | H | 2485.00 | 50.43 | -6.81 | 43.62 | 74.00 | 54.00 | PASS |
| | V | 2483.50 | 56.11 | -6.79 | 49.32 | 74.00 | 54.00 | PASS |
| | V | 2485.00 | 48.81 | -6.81 | 42.00 | 74.00 | 54.00 | PASS |
| Remark: | | | | | | | | |
| 1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit. 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. 5. This report only shows the worst case test data. | | | | | | | | |

9. POWER SPECTRAL DENSITY TEST

9.1 Block Diagram Of Test Setup



9.2 Limit

| FCC Part15 (15.247) , Subpart C | | | | |
|---------------------------------|------------------------|------------------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247 | Power Spectral Density | 8 dBm (in any 3KHz) | 2400-2483.5 | PASS |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

9.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz
4. Set the VBW \geq 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

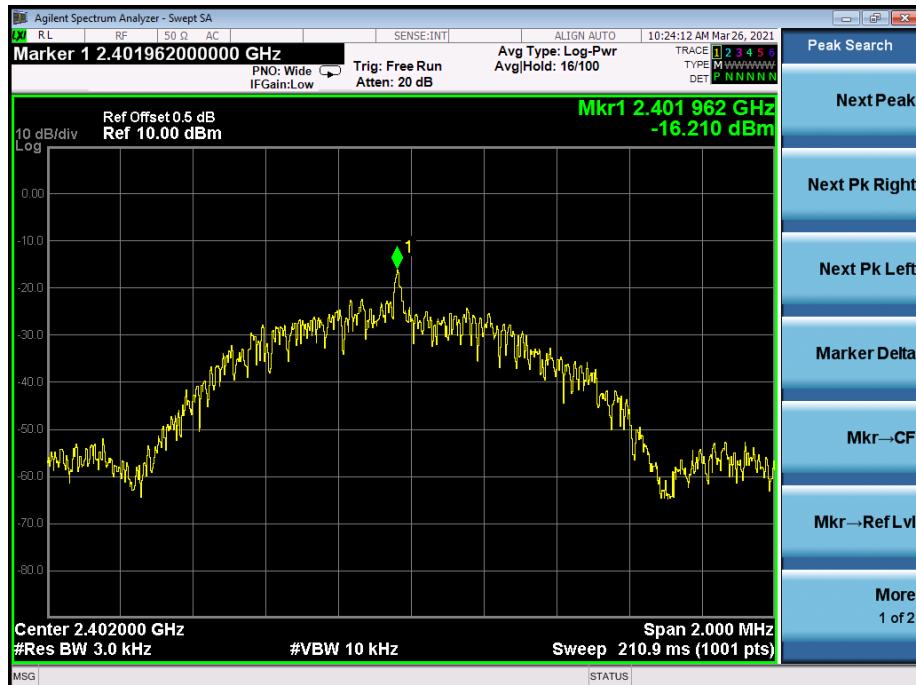
Note: Power Spectral Density(dBm)=Reading+Cable Loss

9.5 Test Result

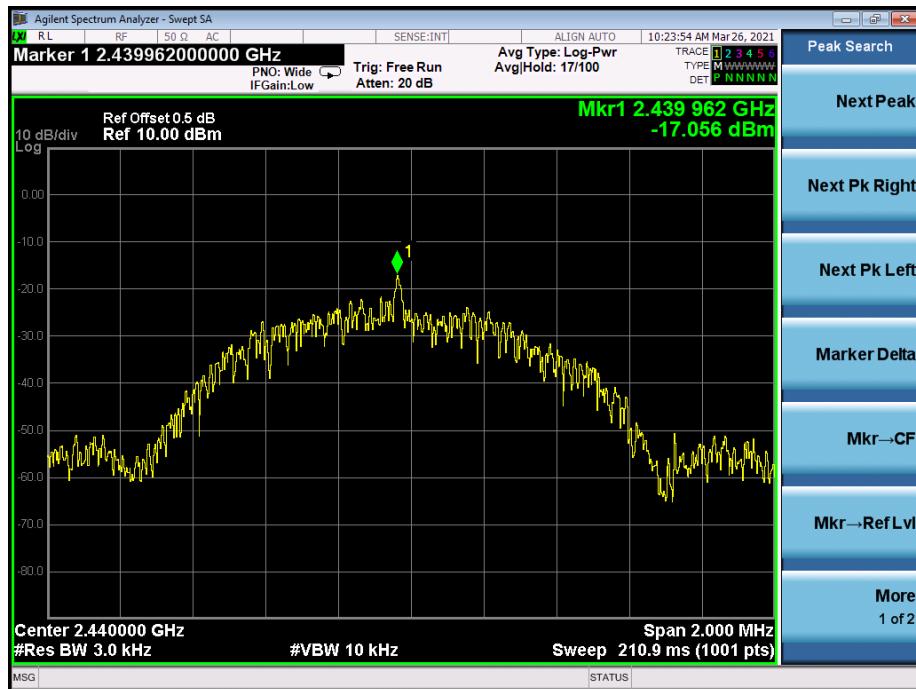
| | | | |
|---------------|------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Test Mode : | GFSK 1Mbps | Test Voltage : | DC 3.7V |

| Frequency | Power Spectral Density(dBm/3kHz) | Limit (dBm/3kHz) | Result |
|-----------|----------------------------------|------------------|--------|
| 2402 MHz | -16.210 | 8 | PASS |
| 2440 MHz | -17.056 | 8 | PASS |
| 2480 MHz | -16.121 | 8 | PASS |

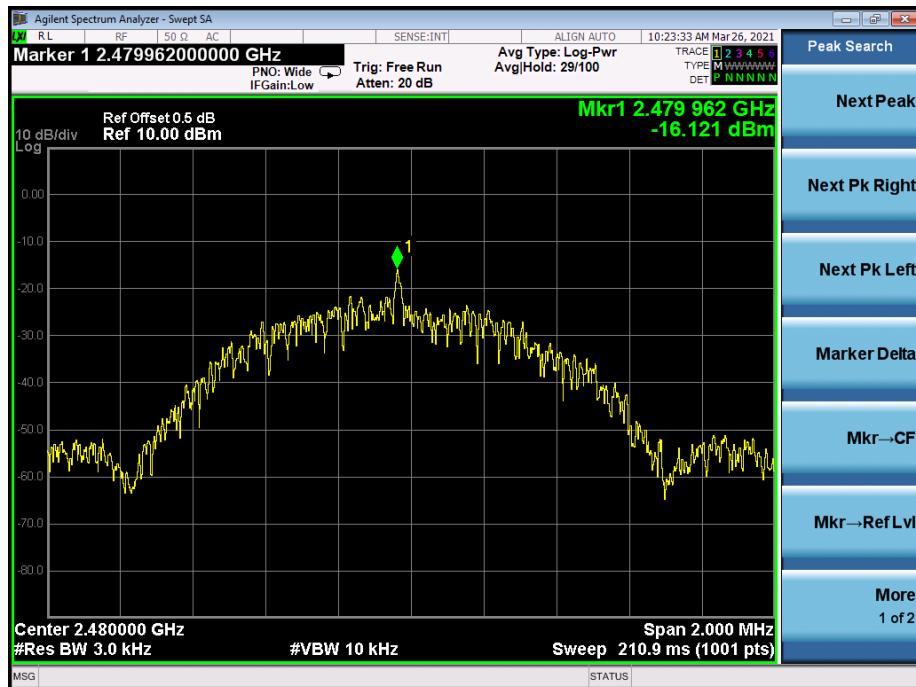
CH01



CH20



CH40



| | | | |
|---------------|------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Test Mode : | GFSK 2Mbps | Test Voltage : | DC 3.7V |

| Frequency | Power Spectral Density(dBm/3kHz) | Limit (dBm/3kHz) | Result |
|-----------|----------------------------------|------------------|--------|
| 2402 MHz | -17.705 | 8 | PASS |
| 2440 MHz | -20.028 | 8 | PASS |
| 2480 MHz | -19.883 | 8 | PASS |

CH01



CH20



CH40



10. BANDWIDTH TEST

10.1 Block Diagram Of Test Setup



10.2 Limit

| FCC Part15 (15.247) , Subpart C | | | | |
|---------------------------------|-----------|---|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(2) | Bandwidth | $\geq 500\text{KHz}$ (6dB bandwidth) | 2400-2483.5 | PASS |

10.3 Test procedure

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. .

10.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

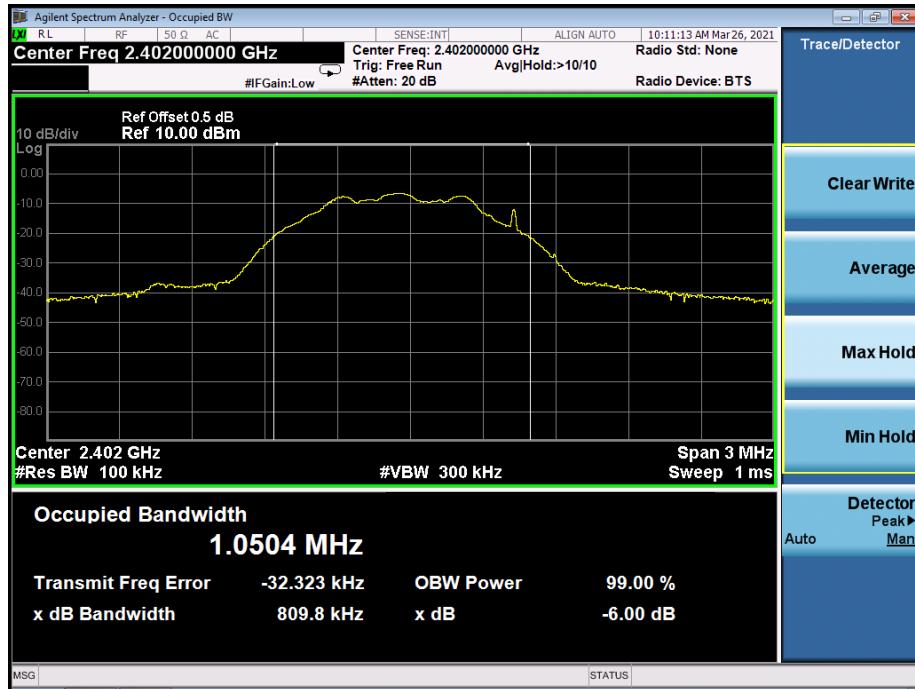
Note: Power Spectral Density(dBm)=Reading+Cable Loss

10.5 Test Result

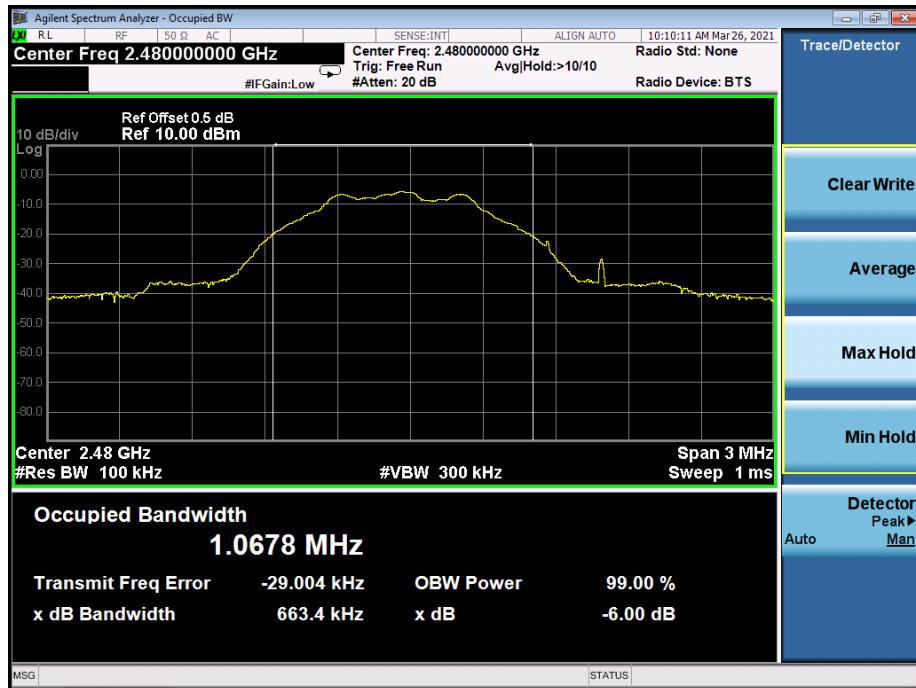
| | | | |
|---------------|------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Test Mode : | GFSK 1Mbps | Test Voltage : | DC 3.7V |

| Frequency (MHz) | 6dB bandwidth (MHz) | Limit (kHz) | Result |
|-----------------|---------------------|-------------|--------|
| 2402 | 0.810 | 500 | Pass |
| 2440 | 0.674 | 500 | Pass |
| 2480 | 0.663 | 500 | Pass |

CH 01



CH20

CH40


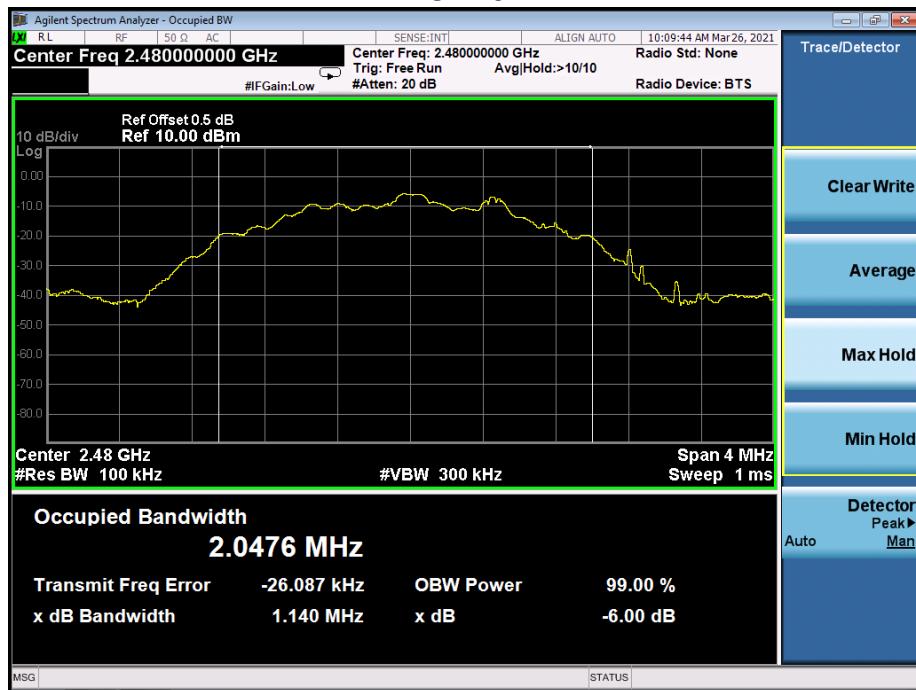
| | | | |
|---------------|------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Test Mode : | GFSK 2Mbps | Test Voltage : | DC 3.7V |

| Frequency (MHz) | 6dB bandwidth (MHz) | Limit (kHz) | Result |
|-----------------|---------------------|-------------|--------|
| 2402 | 1.142 | 500 | Pass |
| 2440 | 1.138 | 500 | Pass |
| 2480 | 1.140 | 500 | Pass |

CH 01



CH20

CH40


11. PEAK OUTPUT POWER TEST

11.1 Block Diagram Of Test Setup



11.2 Limit

| FCC Part15 (15.247) , Subpart C | | | | |
|---------------------------------|-------------------|-----------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(3) | Peak Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

11.3 Test procedure

- The EUT was directly connected to the Power meter

11.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

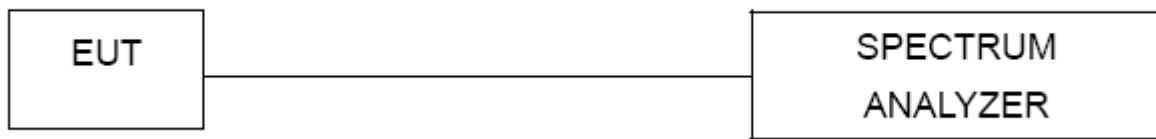
11.5 Test Result

| | | | |
|---------------|------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Test Mode : | GFSK | Test Voltage : | DC 3.7V |

| | Frequency | Maximum Conducted Output Power(PK) | Conducted Output Power Limit |
|------------|-----------|------------------------------------|------------------------------|
| | (MHz) | (dBm) | dBm |
| GFSK 1Mbps | 2402 | -6.966 | 30 |
| | 2440 | -6.952 | 30 |
| | 2480 | -5.859 | 30 |
| GFSK 2Mbps | 2402 | -7.365 | 30 |
| | 2440 | -6.955 | 30 |
| | 2480 | -5.854 | 30 |

12. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

12.1 Block Diagram Of Test Setup



12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

12.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

12.5 Test Result

| | | | |
|---------------|------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Test Mode : | GFSK 1Mbps | Test Voltage : | DC 3.7V |

GFSK: Band Edge, Left Side

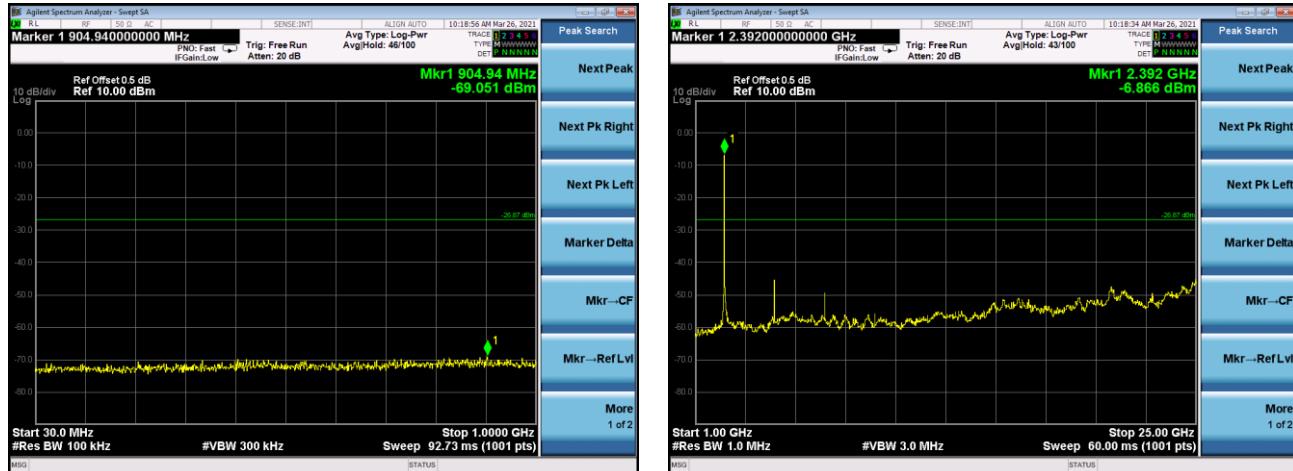


GFSK: Band Edge, Right Side

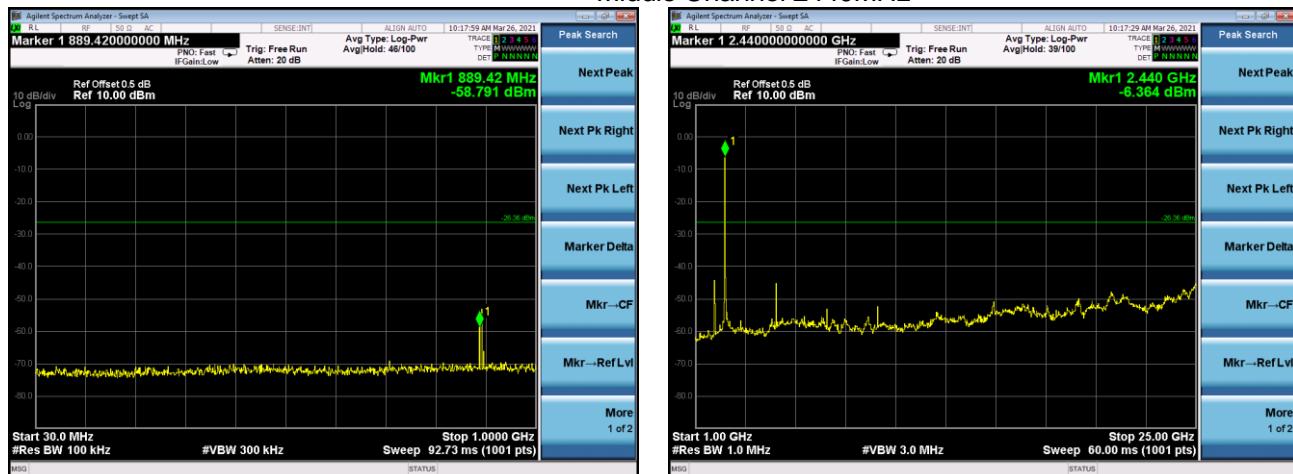


CONDUCTED EMISSION MEASUREMENT GFSK

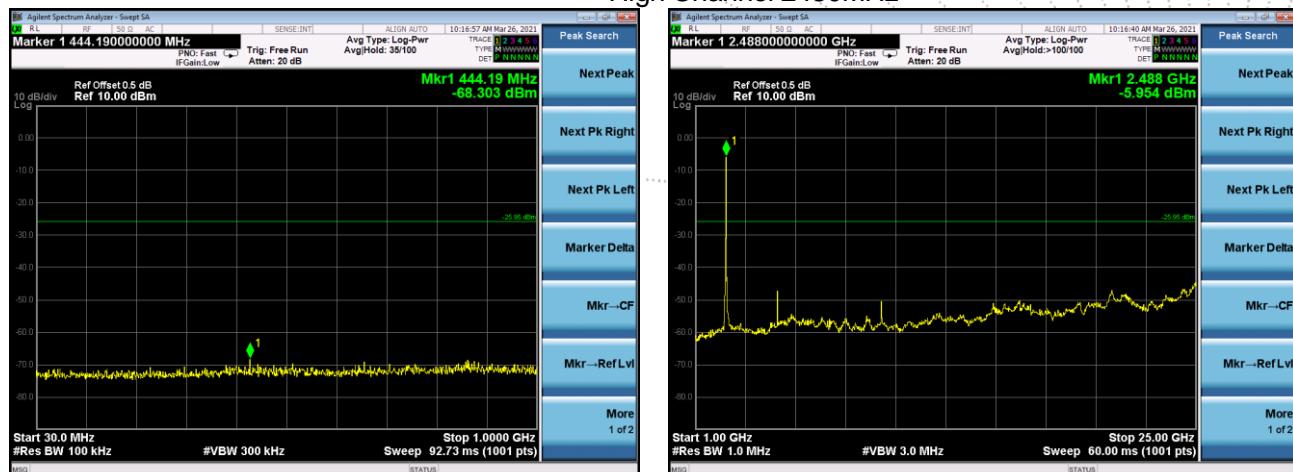
Low Channel 2402MHz



Middle Channel 2440MHz

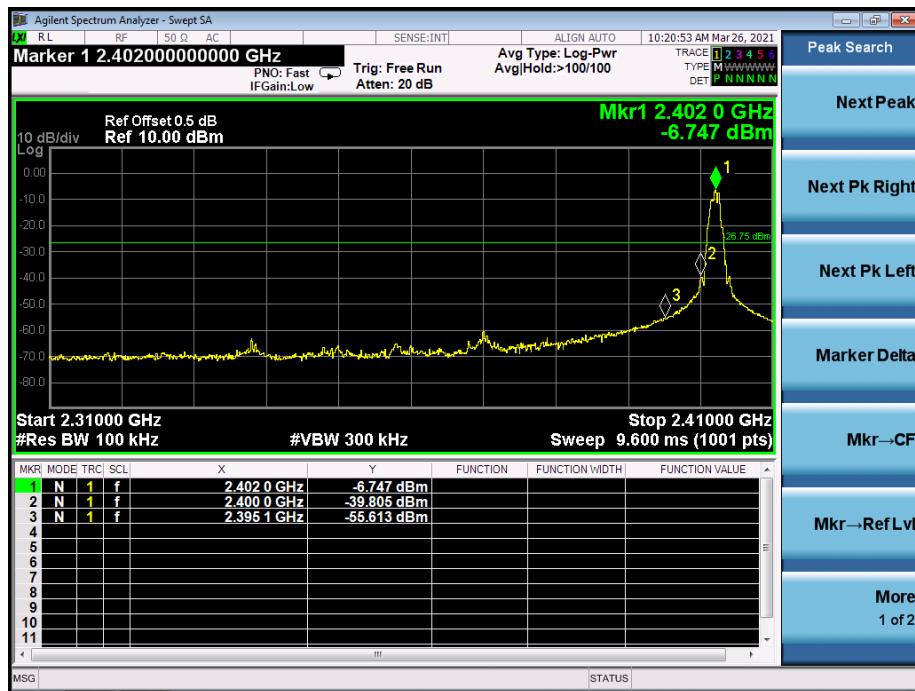


High Channel 2480MHz



| | | | |
|---------------|------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Test Mode : | GFSK 2Mbps | Test Voltage : | DC 3.7V |

GFSK: Band Edge, Left Side

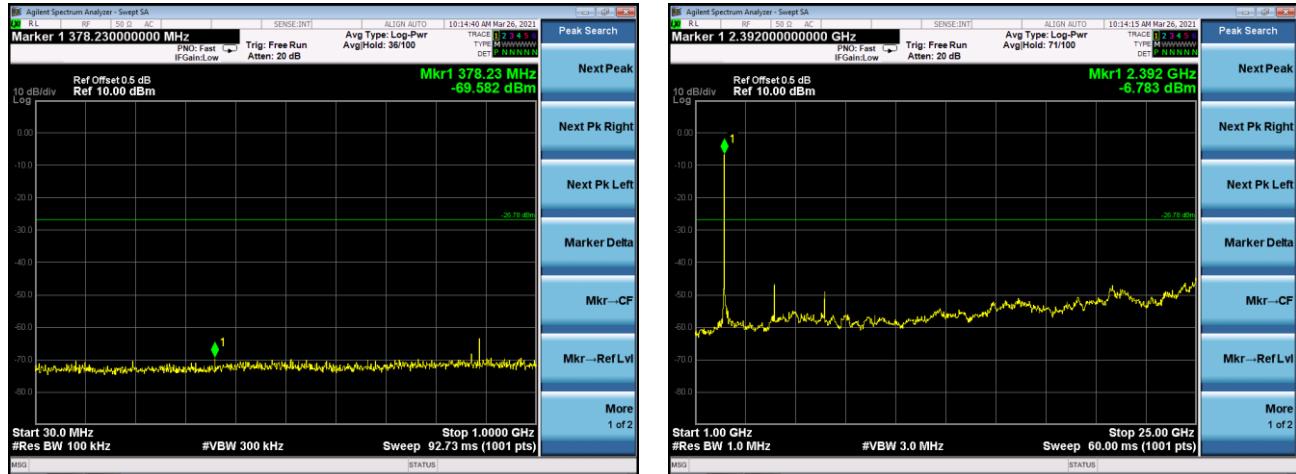


GFSK: Band Edge, Right Side

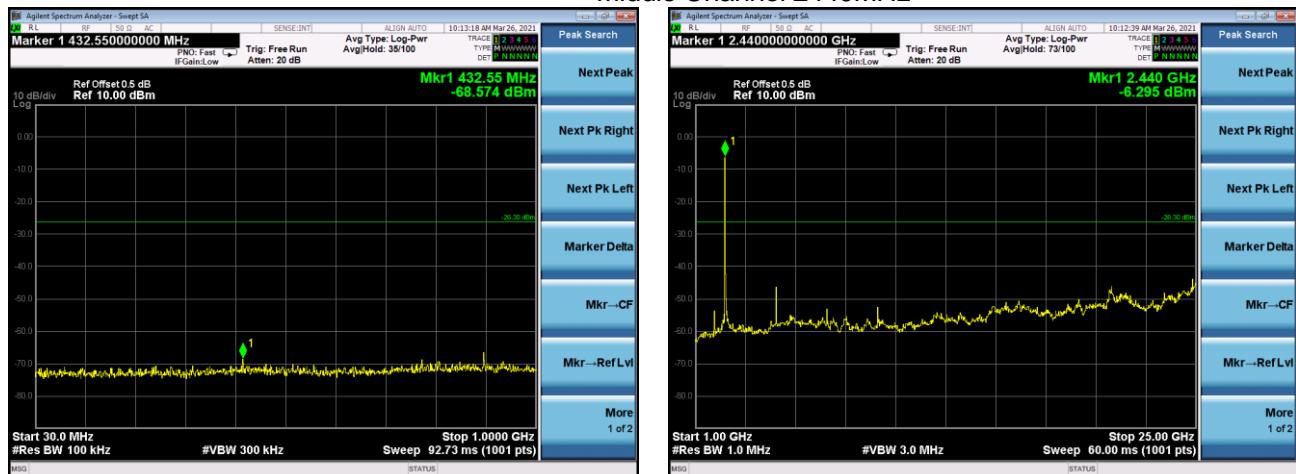


CONDUCTED EMISSION MEASUREMENT GFSK

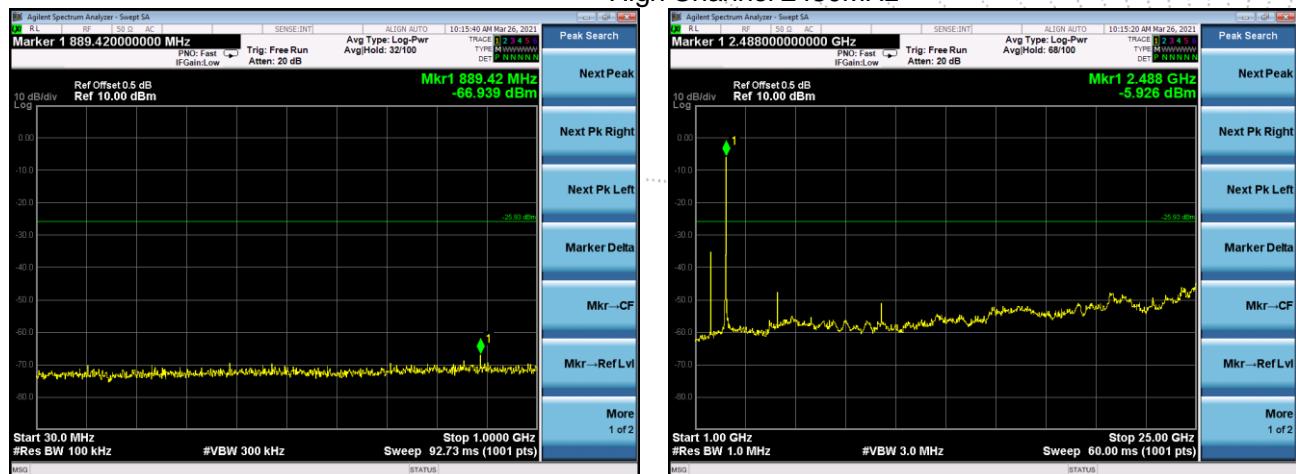
Low Channel 2402MHz



Middle Channel 2440MHz



High Channel 2480MHz



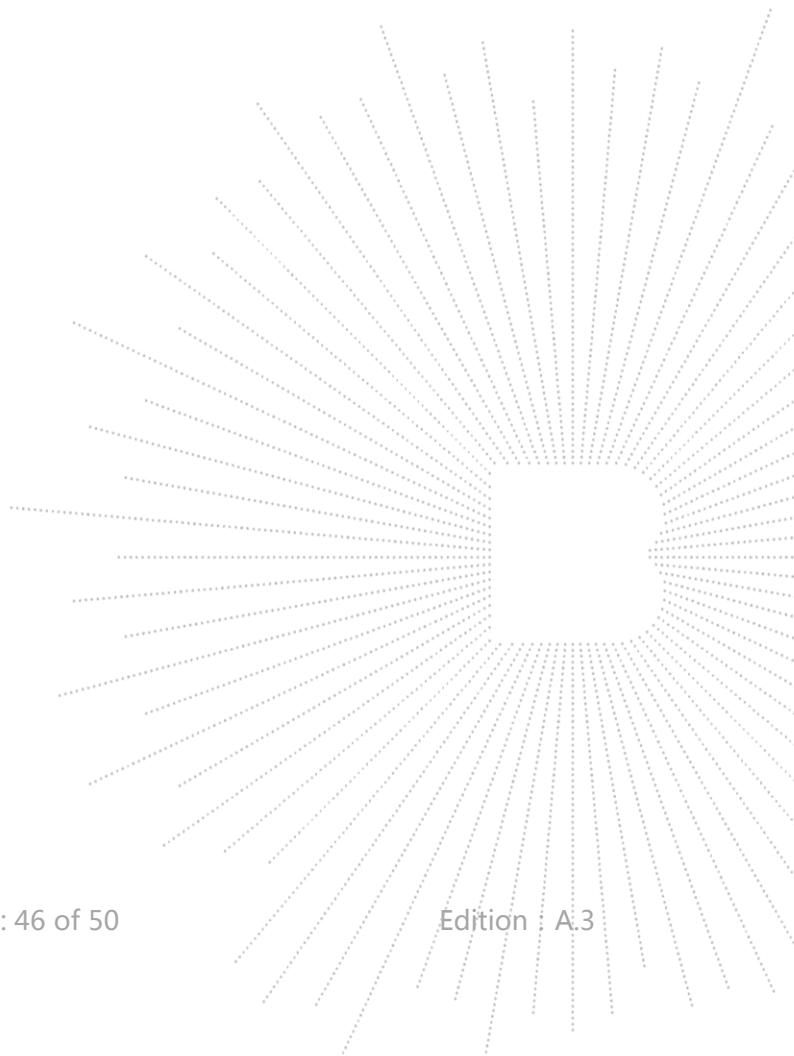
13. ANTENNA REQUIREMENT

13.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2 Test Result

The EUT antenna is Internal antenna, antenna Gain is 0.2dBi, fulfill the requirement of this section.

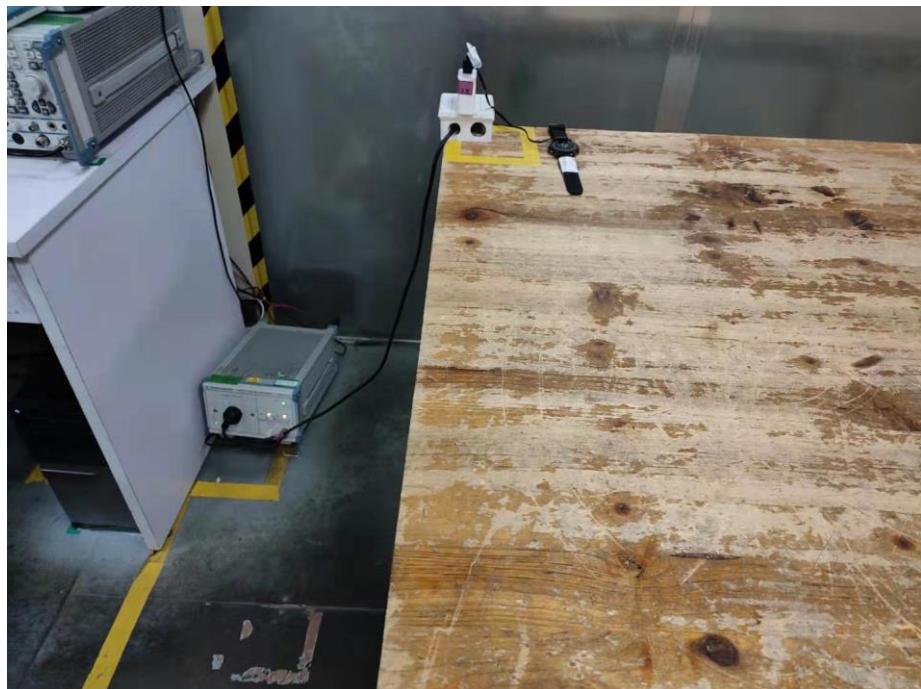


14. EUT PHOTOGRAPHS

EUT Photo 1**EUT Photo 2**

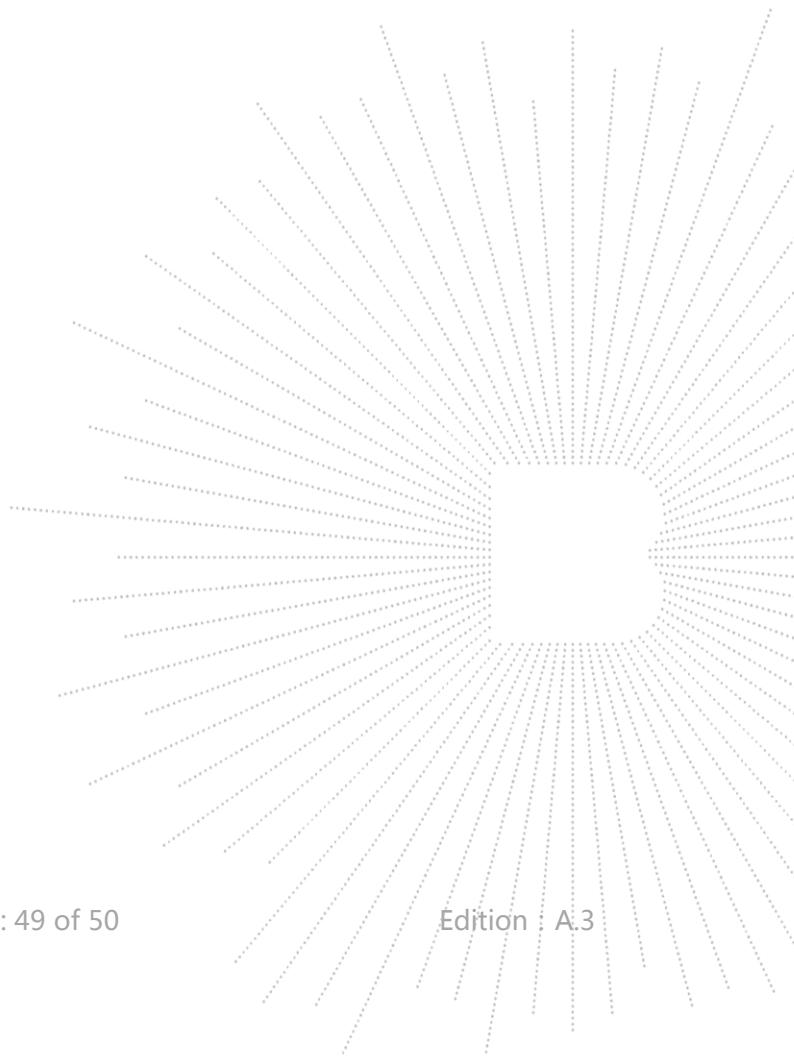
15. EUT TEST SETUP PHOTOGRAPHS

Conducted emissions



Radiated Measurement Photos





STATEMENT

- 1.The equipment lists are traceable to the national reference standards.
- 2.The test report can not be partially copied unless prior written approval is issued from our lab.
- 3.The test report is invalid without stamp of laboratory.
- 4.The test report is invalid without signature of person(s) testing and authorizing.
- 5.The test process and test result is only related to the Unit Under Test.
- 6.The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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