

## FCC TEST REPORT

For

Shenzhen Feelstorm Technology Co., Ltd

Digital Video Baby Monitor

Test Model: VB607-R

Additional Model No.:N/A

Prepared for : Shenzhen Feelstorm Technology Co., Ltd  
Address : 5F Block C, HuaWan industrial Park, No.119, BaoAn DaDao, BaoAn District, ShenZhen CHINA

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : 101,601, Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China  
Tel : (+86)755-82591330  
Fax : (+86)755-82591332  
Web : www.LCS-cert.com  
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : June 18, 2019  
Number of tested samples : 1  
Serial number : Prototype  
Date of Test : June 18, 2019 ~ June 24, 2019  
Date of Report : June 28, 2019

**ISED TEST REPORT  
FCC CFR 47 PART 15 C (15.247)****Report Reference No.** : LCS190611047AEA

Date of Issue : June 28, 2019

**Testing Laboratory Name** : Shenzhen LCS Compliance Testing Laboratory Ltd.Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,  
Bao'an District, Shenzhen, Guangdong, ChinaTesting Location/ Procedure : Full application of Harmonised standards ■  
Partial application of Harmonised standards □  
Other standard testing method □**Applicant's Name** : Shenzhen Feelstorm Technology Co., LtdAddress : 5F Block C, HuaWan industrial Park, No.119, BaoAn DaDao,  
BaoAn District, ShenZhen CHINA**Test Specification**

Standard : FCC CFR 47 PART 15 C (15.247)

**Test Report Form No.** : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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**EUT Description.** : Digital Video Baby Monitor

Trade Mark : N/A

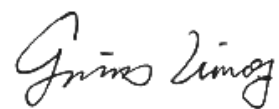
Model/ Type reference : VB607-R

Ratings : 5V DC,1000mAh by adapter,  
DC 3.7V by batteryResult : **Positive****Compiled by:**

Jack Liu/ File administrators

**Supervised by:**

Aking Jin/ Technique principal

**Approved by:**

Gavin Liang/ Manager

## FCC -- TEST REPORT

Test Report No. : LCS190611047AEA	June 28, 2019 Date of issue
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Type / Model.....	: VB607-R
EUT.....	: Digital Video Baby Monitor
<b>Applicant.....</b>	<b>: Shenzhen Feelstorm Technology Co., Ltd</b>
Address.....	: 5F Block C, HuaWan industrial Park, No.119, BaoAn DaDao, BaoAn District, ShenZhen CHINA
Telephone.....	: /
Fax.....	: /
<b>Manufacturer.....</b>	<b>: Shenzhen Feelstorm Technology Co., Ltd</b>
Address.....	: 5F Block C, HuaWan industrial Park, No.119, BaoAn DaDao, BaoAn District, ShenZhen CHINA
Telephone.....	: /
Fax.....	: /
<b>Factory.....</b>	<b>: Shenzhen Feelstorm Technology Co., Ltd</b>
Address.....	: 5F Block C, HuaWan industrial Park, No.119, BaoAn DaDao, BaoAn District, ShenZhen CHINA
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## Revision History

Revision	Issue Date	Revisions	Revised By
000	June 28, 2019	Initial Issue	Gavin Liang

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## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT	:	Digital Video Baby Monitor
Test Model	:	VB607-R
Additional Model No.	:	/
Model Declaration	:	/
Power Supply	:	5V DC,1000mAh by adapter, DC 3.7V by battery
Hardware Version	:	A02
Software Version	:	V6.3
For Digital Video Baby Monitor		
Frequency Range	:	2415MHz-2460MHz (2415MHz, 2418MHz, 2421MHz, 2424MHz, 2427MHz, 2430MHz, 2433MHz, 2436MHz, 2439MHz, 2442MHz, 2445MHz, 2448MHz, 2451MHz, 2454MHz, 2457MHz, 2460MHz)
Channel Number	:	16 channels
Channel Spacing	:	3MHz
Modulation Type	:	GFSK
Antenna Description	:	Internal Antenna, 2dBi(max.)

## 1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	---	--

## 1.3. External I/O Cable

I/O Port Description	Quantity	Cable
--	--	--

## 1.4. Description of Test Facility

FCC Registration Number is 254912.  
 Industry Canada Registration Number is 9642A-1.  
 EMSD Registration Number is ARCB0108.  
 UL Registration Number is 100571-492.  
 TUV SUD Registration Number is SCN1081.  
 TUV RH Registration Number is UA 50296516-001.  
 NVLAP Accreditation Code is 600167-0.  
 FCC Designation Number is CN5024  
 CAB identifier: CN0071

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

## 1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

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

## 1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be TX.

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be SRD mode(HCH).

Pre-test AC conducted emission at charge from adapter mode, recorded worst case.

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case.

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

## 1.8. Frequency of Channels

Modulation Technology	Channel No.	Frequency	Channel No.	Frequency
		(MHz)		(MHz)
GFSK	0	2415	8	2439
	1	2418	9	2442
	2	2421	10	2445
	3	2424	11	2448
	4	2427	12	2451
	5	2430	13	2454
	6	2433	14	2457
	7	2436	15	2460



## 2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

### 2.1. EUT Configuration

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

### 2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 15.247 Meas.v05R02 Guidance are required to be used for this kind of RSS-247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of RSS-247 Issue 2 and RSS-Gen Issue 5.

### 2.3. General Test Procedures

#### 2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

### 3. SYSTEM TEST CONFIGURATION

#### 3.1. Justification

The system was configured for testing in a continuous transmits condition. The duty cycle is 100% and the average correction factor is 0.

The EUT After the power is switched on, By manually operating the keys, and the Signal continuous transmission.

#### 3.2. EUT Exercise Software

N/A

#### 3.3. Special Accessories

N/A

#### 3.4. Block Diagram/Schematics

Please refer to the related document

#### 3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

#### 3.6. Test Setup

Please refer to the test setup photo.

#### 4. SUMMARY OF TEST RESULTS

Applied Standard: RSS-247 Issue 2 / RSS-Gen Issue 5			
ISED Rules	Description of Test	Result	Remark
/	On Time and Duty Cycle	Compliant	Note 1
§15.247(b)	Maximum Conducted Output Power	Compliant	Note 1
§15.247(e)	Power Spectral Density	Compliant	Note 1
§15.247(a)(2)	6dB Bandwidth	Compliant	Note 1
§15.209, §15.247(d)	Occupied Bandwidth	Compliant	Note 1
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	Compliant	Note 1
§15.205	Emissions at Restricted Band	Compliant	Note 1
§15.207(a)	AC Conducted Emissions	Compliant	Note 1
§15.203	Antenna Requirements	Compliant	Note 1
§15.247(i)§2.1091	RF Exposure	Compliant	Note 2

*Remark:*

1. Note 1 – Test results inside test report;
2. Note 2 – Test results in other test report (RF Exposure Evaluation);

## 5. TEST RESULT

### 5.1. On Time and Duty Cycle

#### 5.1.1. Standard Applicable

None; for reporting purpose only.

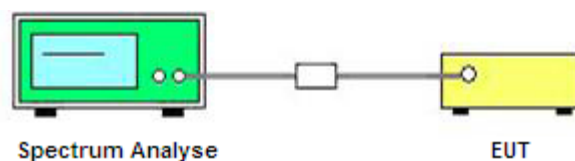
#### 5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

#### 5.1.3. Test Procedures

1. Set the center frequency of the spectrum analyzer to the transmitting frequency;
2. Set the span=0MHz, RBW=8MHz, VBW=50MHz, Sweep time=5ms;
3. Detector = peak;
4. Trace mode = Single hold.

#### 5.1.4. Test Setup Layout

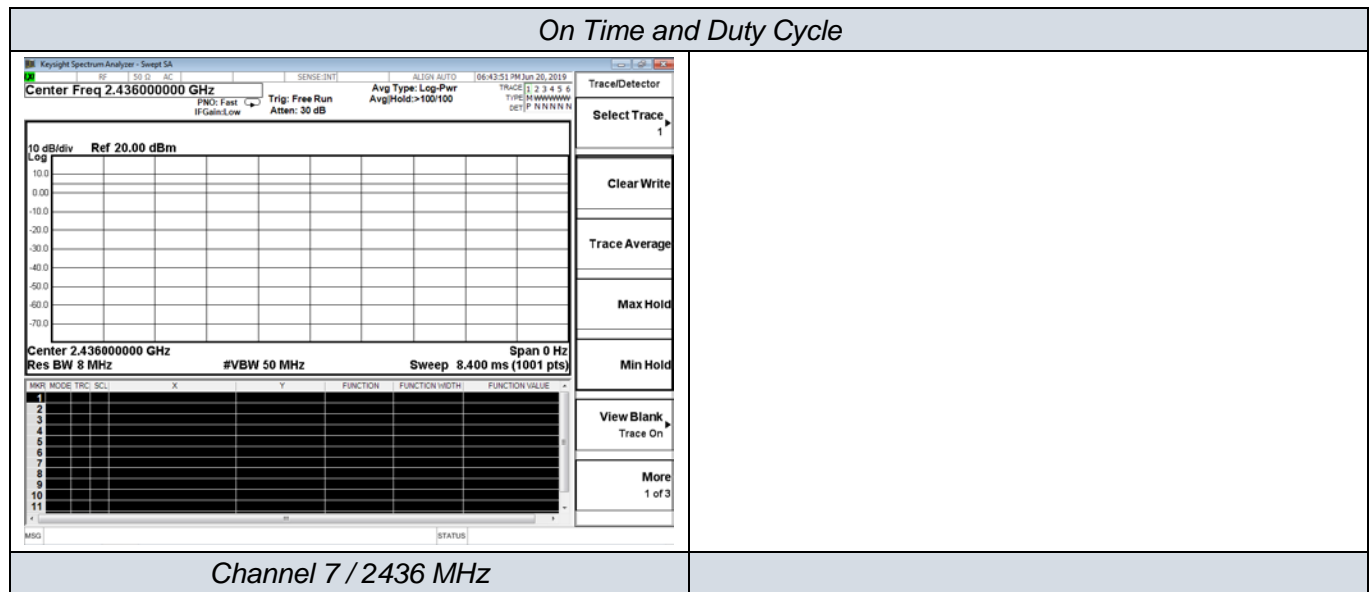


#### 5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.6. Test result

Mode	On Time B (ms)	Period (ms)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (KHz)
GFSK	5.0	5.0	1	100	0	0.01



## 5.2. Maximum Conducted Output Power Measurement

### 5.2.1. Standard Applicable

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### 5.2.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

### 5.2.3. Test Procedures

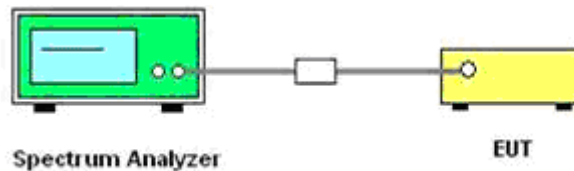
The transmitter output (antenna port) was connected to the spectrum analyzer.

According to KDB558074 D01 15.247 Meas.v05R02 Measurement Guidance Section 9.1 Maximum peak conducted output power 9.1.1.

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- Set the RBW  $\geq$  DTS bandwidth.
- Set VBW  $\geq 3 \times$  RBW.
- Set span  $\geq 3 \times$  RBW
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

### 5.2.4. Test Setup Layout



### 5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

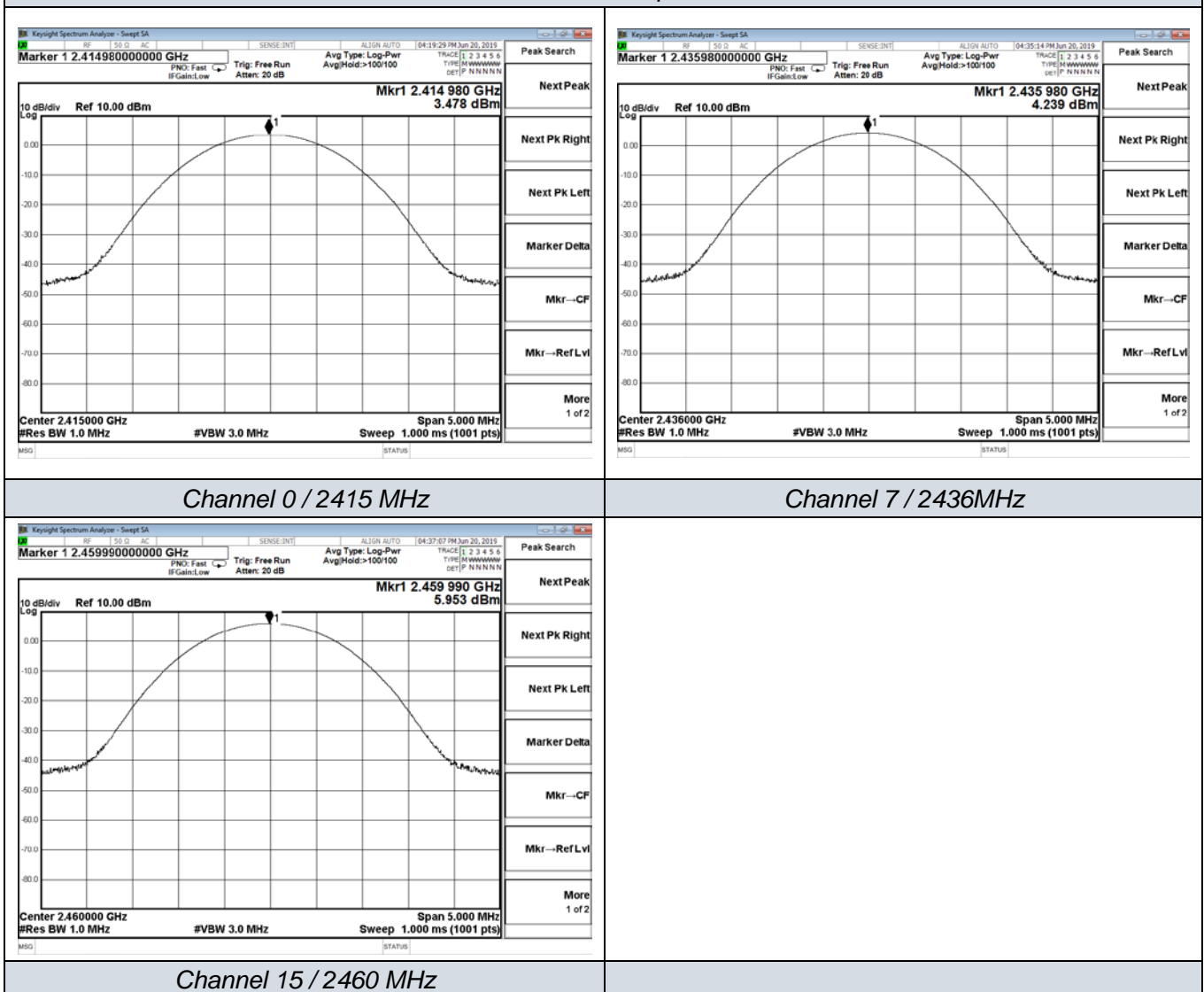
### 5.2.6. Test Result of Maximum Conducted Output Power

Channel	Frequency (MHz)	Measured Maximum Peak Power (dBm)	Limits (dBm)	Verdict
0	2415	3.478	30	PASS
7	2436	4.239		
15	2460	4.583		

Remark:

1. Test results including cable loss;
2. Please refer to following plots;

### Maximum Peak Output Power



### 5.3. Power Spectral Density Measurement

#### 5.3.1. Standard Applicable

According to §15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

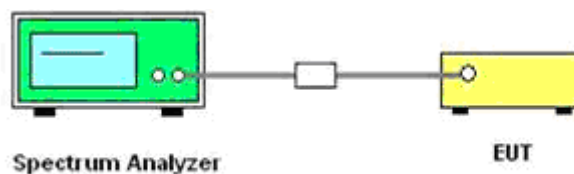
#### 5.3.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

#### 5.3.3. Test Procedures

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. The power was Digital Video Baby Monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
3. Set the RBW = 3 kHz.
4. Set the VBW  $\geq 3 \times$  RBW
5. Set the span to 1.5 times the DTS channel bandwidth.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum power level.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
12. The resulting peak PSD level must be 8 dBm.

#### 5.3.4. Test Setup Layout



#### 5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.3.6. Test Result of Power Spectral Density

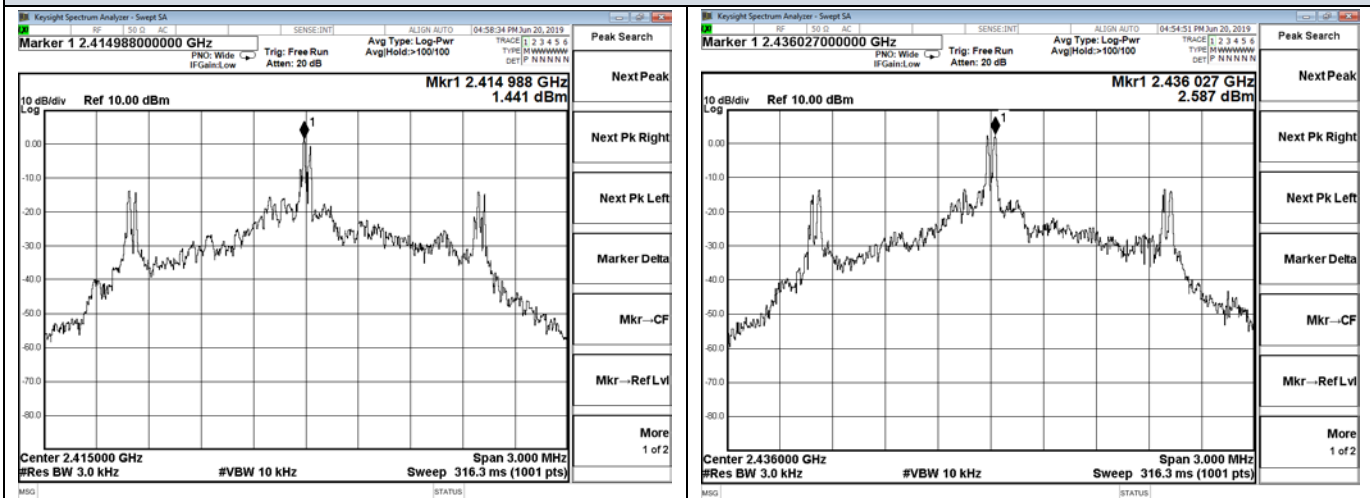
PASS

Remark:

1. Test results including cable loss;
2. Please refer to following plots;

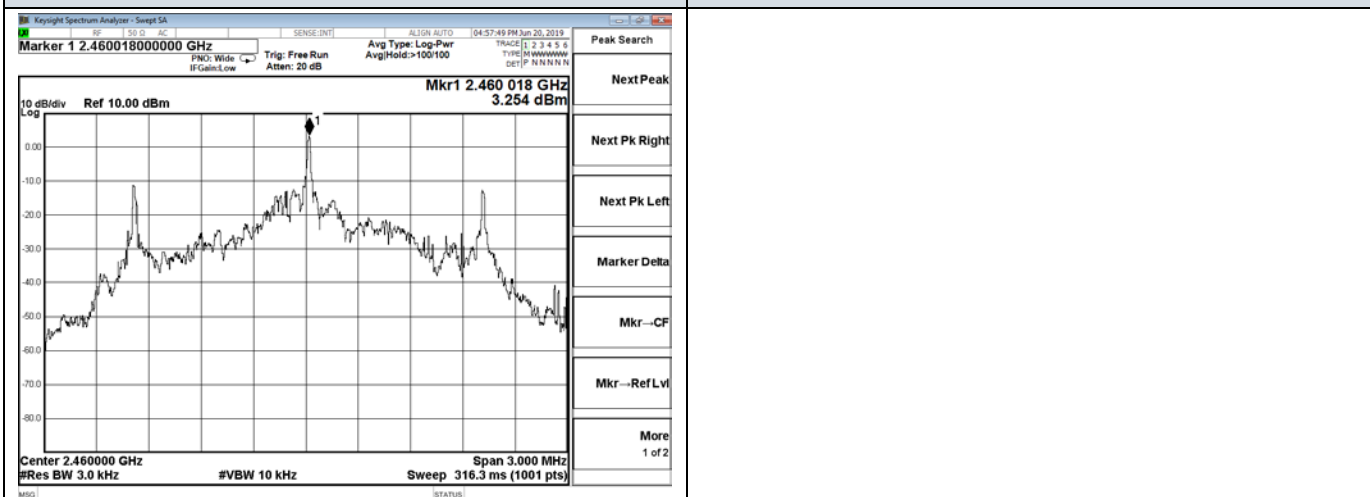
Channel	Frequency (MHz)	Peak Power Spectral Density (dBm/3kHz)	Limits (dBm/3kHz)	Verdict
0	2415	1.441	8	PASS
7	2436	2.587		
15	2460	3.254		

### Peak Power Spectral Density



Channel 0 / 2415 MHz

Channel 7 / 2436 MHz



Channel 15/ 2460 MHz



## 5.4. 6 dB and 99% Spectrum Bandwidth Measurement

### 5.4.1. Standard Applicable

According to §15.247(a) (2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.4.2. Measuring Instruments and Setting

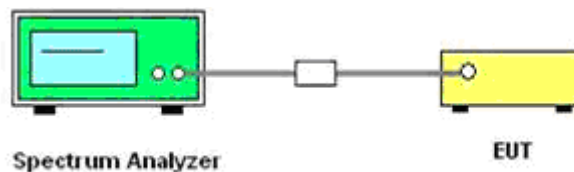
Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	100ms

### 5.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth and the video bandwidth were set according to KDB558074 D01 15.247 Meas.v05R02
3. Measured the spectrum width with power higher than 6dB below carrier.

### 5.4.4. Test Setup Layout



### 5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

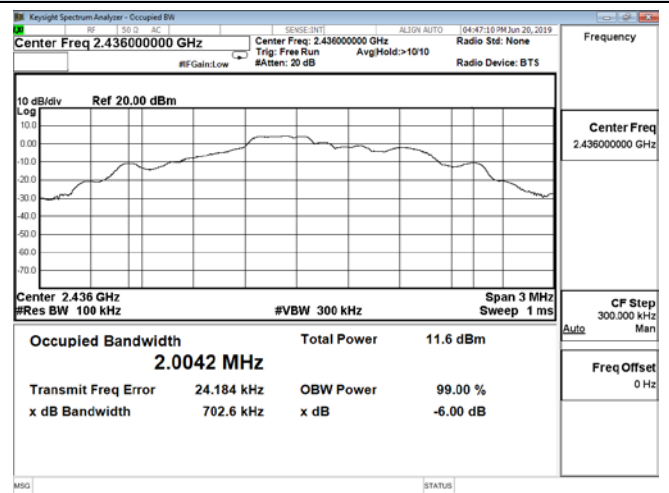
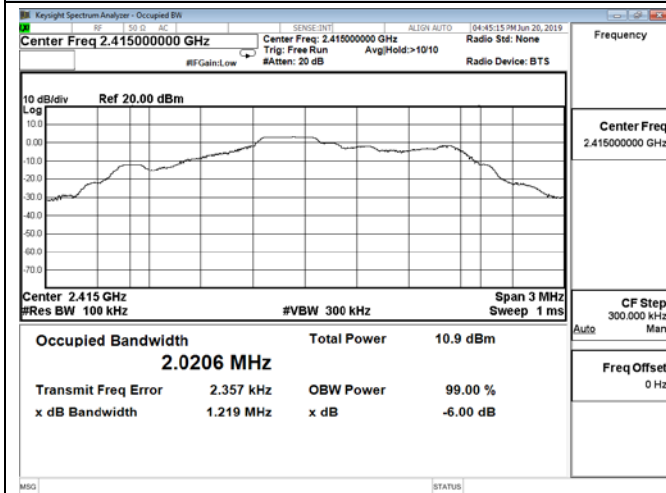
### 5.4.6. Test Result of 6dB and 99% Spectrum Bandwidth

Channel	Frequency (MHz)	6dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limits (KHz)	Verdict
0	2415	1219	2020.6	≥500	PASS
7	2436	702.6	2004.2		
15	2460	690.4	2004.1		

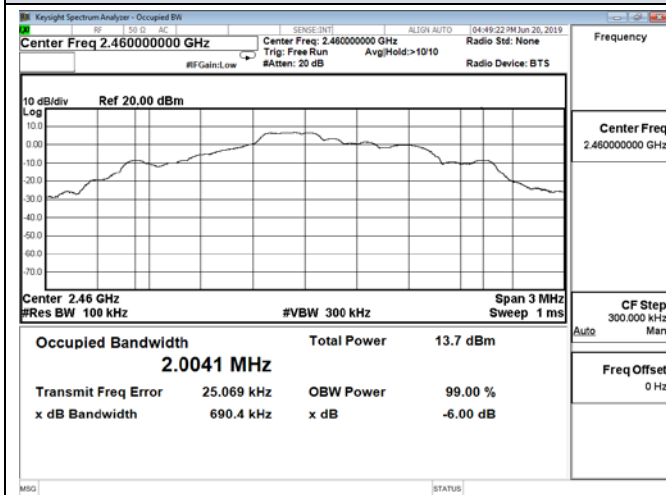
#### Remark:

1. Test results including cable loss;
2. Please refer to following plots;

## 6dB and 99% Bandwidth



## Channel 0/ 2415Hz



## Channel 7/ 2436Hz

## Channel 15 2460Hz

## 5.5. Radiated Emissions Measurement

### 5.5.1. Standard Applicable

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
\1\ 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			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 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.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 5.5.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 <sup>th</sup> carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

### 5.5.3. Test Procedures

#### 1) Sequence of testing 9 kHz to 30 MHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

##### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 0.8 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

##### Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

## 2) Sequence of testing 30 MHz to 1 GHz

### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

### 3) Sequence of testing 1 GHz to 18 GHz

#### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

#### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

#### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

#### 4) Sequence of testing above 18 GHz

**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

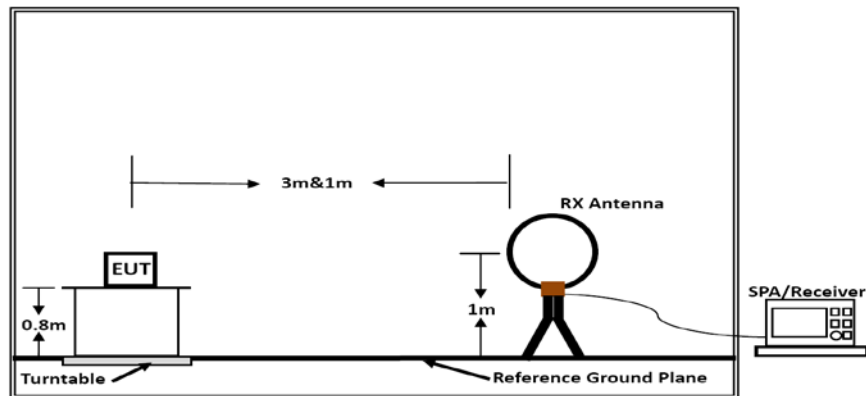
**Premeasurement:**

- The antenna is moved spherical over the EUT in different polarizations of the antenna.

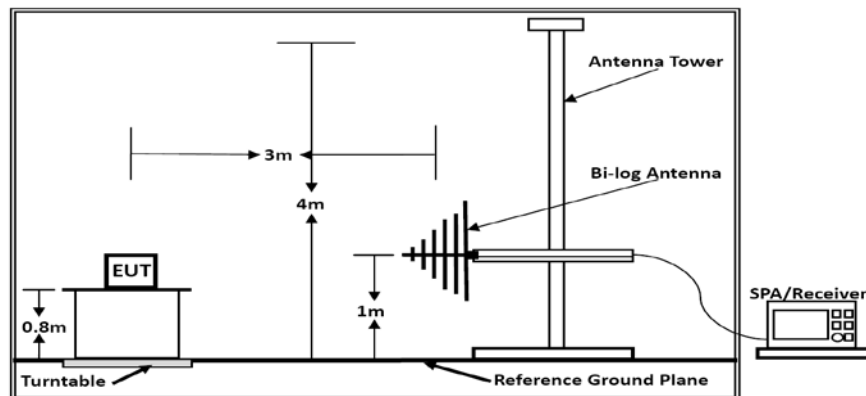
**Final measurement:**

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

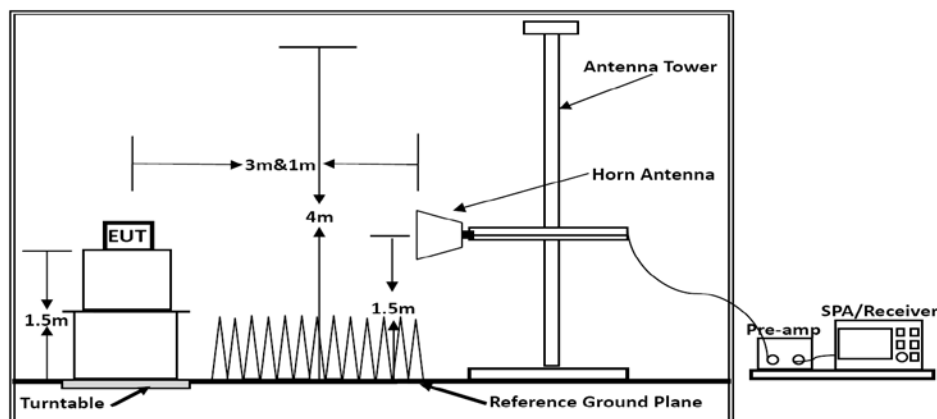
#### 5.5.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor =  $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

#### 5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



## 5.5.6. Results of Radiated Emissions (9 KHz~30MHz)

Temperature	24.5℃	Humidity	53.7%
Test Engineer	David Luo	Configurations	GFSK

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

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

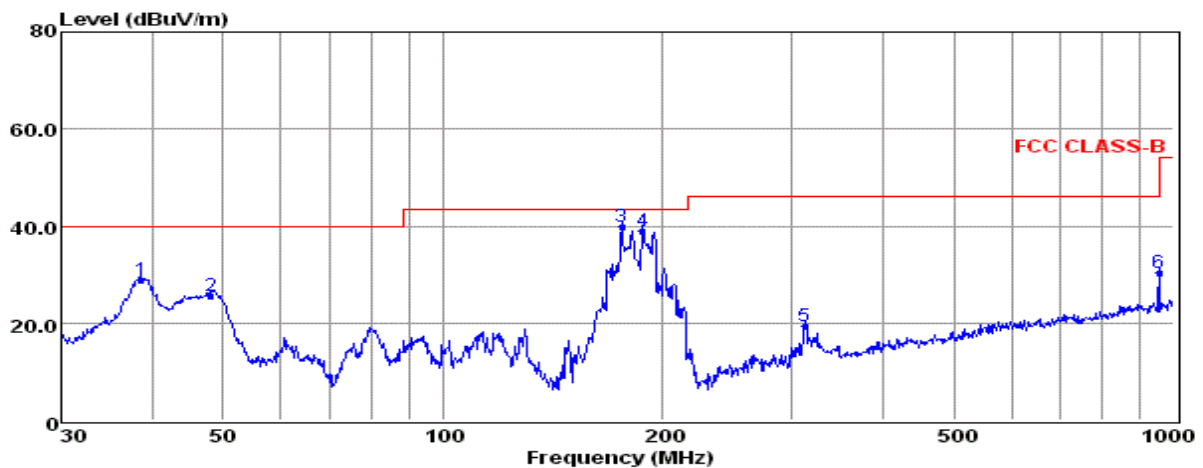
Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);

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

## 5.5.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	24.5℃	Humidity	53.7%
Test Engineer	David Luo	Configurations	GFSK

Vertical



Env./Ins: 24.5℃/53.7%  
pol: VERTICAL

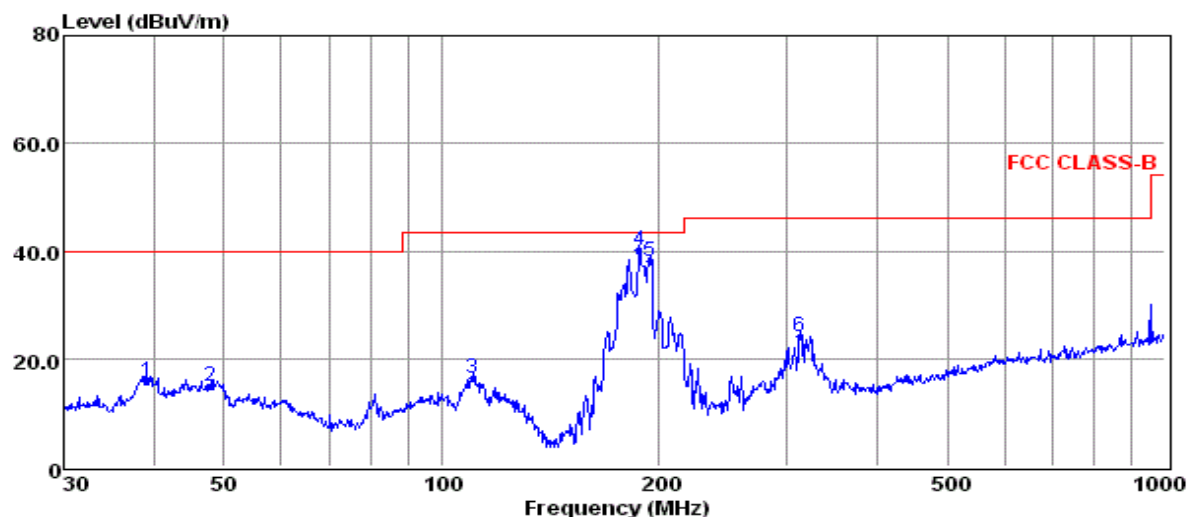
	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	38.62	15.21	0.38	13.23	28.82	40.00	-11.18	QP
2	48.16	11.86	0.35	13.36	25.57	40.00	-14.43	QP
3	175.65	29.77	0.73	9.37	39.87	43.50	-3.63	QP
4	187.75	27.75	0.98	10.36	39.09	43.50	-4.41	QP
5	313.28	5.11	1.09	13.24	19.44	46.00	-26.56	QP
6	955.44	6.94	1.89	21.45	30.28	46.00	-15.72	QP

Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported

## Horizontal



Env./Ins: 24.5°C/53.7%  
 pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	39.16	2.03	0.38	13.37	15.78	40.00	-24.22	QP
2	47.99	1.19	0.35	13.37	14.91	40.00	-25.09	QP
3	110.57	3.53	0.61	12.15	16.29	43.50	-27.21	QP
4	187.75	28.69	0.98	10.36	40.03	43.50	-3.47	QP
5	194.45	26.72	0.76	10.56	38.04	43.50	-5.46	QP
6	313.28	9.70	1.09	13.24	24.03	46.00	-21.97	QP

Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported

## Note:

- 1). Pre-scan all modes and recorded the worst case results in this report.
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Corrected Reading: Antenna Factor + Cable Loss + Read Level = Level.

## 5.5.8. Results for Radiated Emissions (Above 1GHz)

## Channel 0/ 2415Hz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4830.3	52.97	33.06	35.04	3.94	54.93	74.00	-19.07	Peak	Horizontal
4830.3	39.58	33.06	35.04	3.94	41.54	54.00	-12.46	Average	Horizontal
7245.3	53.18	33.16	35.06	3.96	55.24	74.00	-18.76	Peak	Horizontal
7245.3	40.09	33.16	35.06	3.96	42.15	54.00	-11.85	Average	Horizontal
4830.3	52.29	33.06	35.04	3.94	54.25	74.00	-19.75	Peak	Vertical
4830.3	40.21	33.06	35.04	3.94	42.17	54.00	-11.83	Average	Vertical
7245.6	53.43	33.16	35.06	3.96	55.49	74.00	-18.51	Peak	Vertical
7245.6	40.25	33.16	35.06	3.96	42.31	54.00	-11.69	Average	Vertical

## Channel 7/ 2436Hz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4872.3	49.07	33.16	35.15	3.96	51.04	74.00	-22.96	Peak	Horizontal
4872.3	40.07	33.16	35.15	3.96	42.04	54.00	-11.96	Average	Horizontal
7308.3	52.24	33.26	35.17	3.98	54.31	74.00	-19.69	Peak	Horizontal
7308.3	40.85	33.26	35.17	3.98	42.92	54.00	-11.08	Average	Horizontal
4872.3	51.12	33.16	35.15	3.96	53.09	74.00	-20.91	Peak	Vertical
4872.3	35.92	33.16	35.15	3.96	37.89	54.00	-16.11	Average	Vertical
7308.6	53.62	33.26	35.17	3.98	55.69	74.00	-18.31	Peak	Vertical
7308.6	40.82	33.26	35.17	3.98	42.89	54.00	-11.11	Average	Vertical

## Channel 15/ 2460 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4920.2	50.84	33.26	35.14	3.98	52.94	74.00	-21.06	Peak	Horizontal
4920.2	40.56	33.26	35.14	3.98	42.66	54.00	-11.34	Average	Horizontal
7380.6	49.51	33.36	35.16	4.00	51.71	74.00	-22.29	Peak	Horizontal
7380.6	38.77	33.36	35.16	4.00	40.97	54.00	-13.03	Average	Horizontal
4920.4	51.73	33.26	35.14	3.98	53.83	74.00	-20.17	Peak	Vertical
4920.4	37.50	33.26	35.14	3.98	39.60	54.00	-14.40	Average	Vertical
7380.2	52.86	33.36	35.16	4.00	55.06	74.00	-18.94	Peak	Vertical
7380.2	37.29	33.36	35.16	4.00	39.49	54.00	-14.51	Average	Vertical

## Notes:

- 1). Measuring frequencies from 9 KHz~10<sup>th</sup> harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10<sup>th</sup> harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured radiated emission used 900-930 MHz band filter in order to avoid spectrum overload.

## 5.6. Conducted Spurious Emissions and Band Edges Test

### 5.6.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 5.6.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

### 5.6.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9 KHz to 10 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

### 5.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 5.4.4.

### 5.6.5. EUT Operation during Test

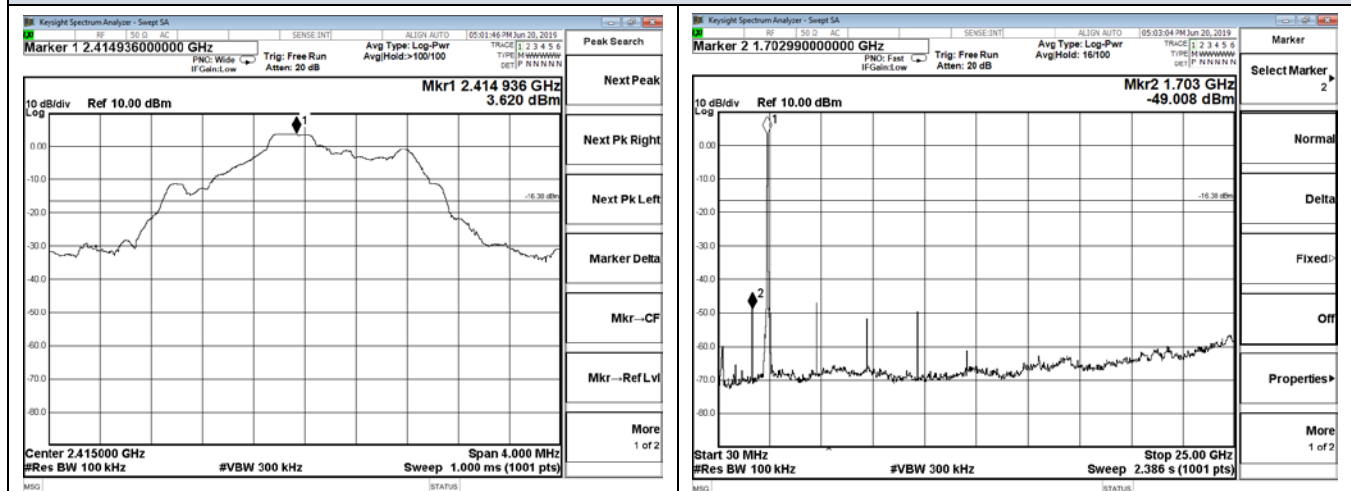
The EUT was programmed to be in continuously transmitting mode.

### 5.6.6. Test Results of Conducted Spurious Emissions

Temperature	24.6°C	Humidity	53.3%
Test Engineer	David Luo	Configurations	GFSK

## RF Conducted Spurious Emissions

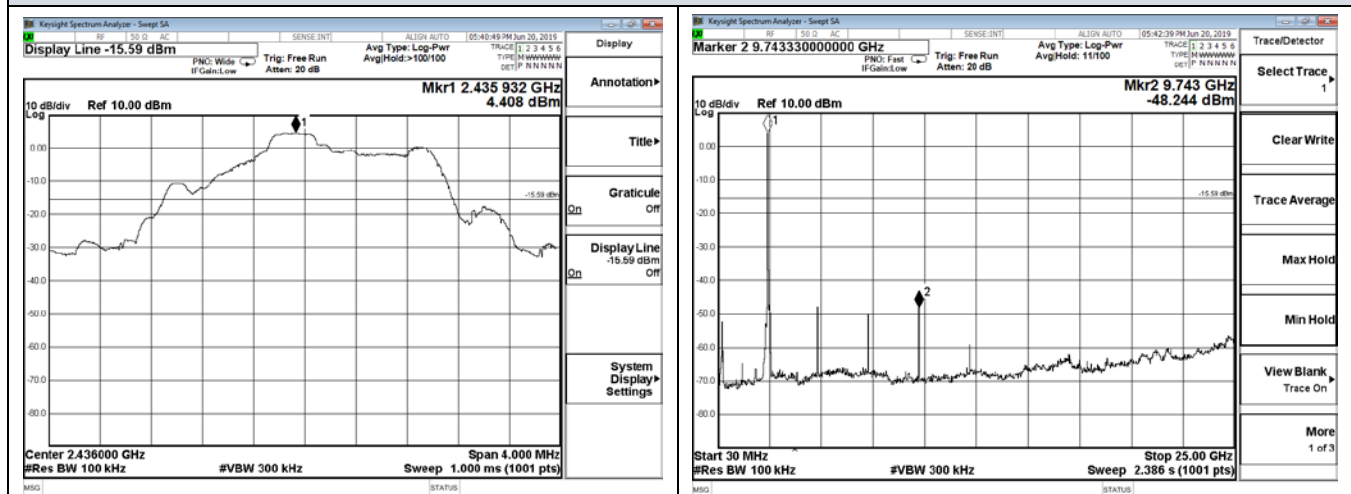
## Channel 0 / 2415 MHz



2415MHz

30 MHz – 25 GHz

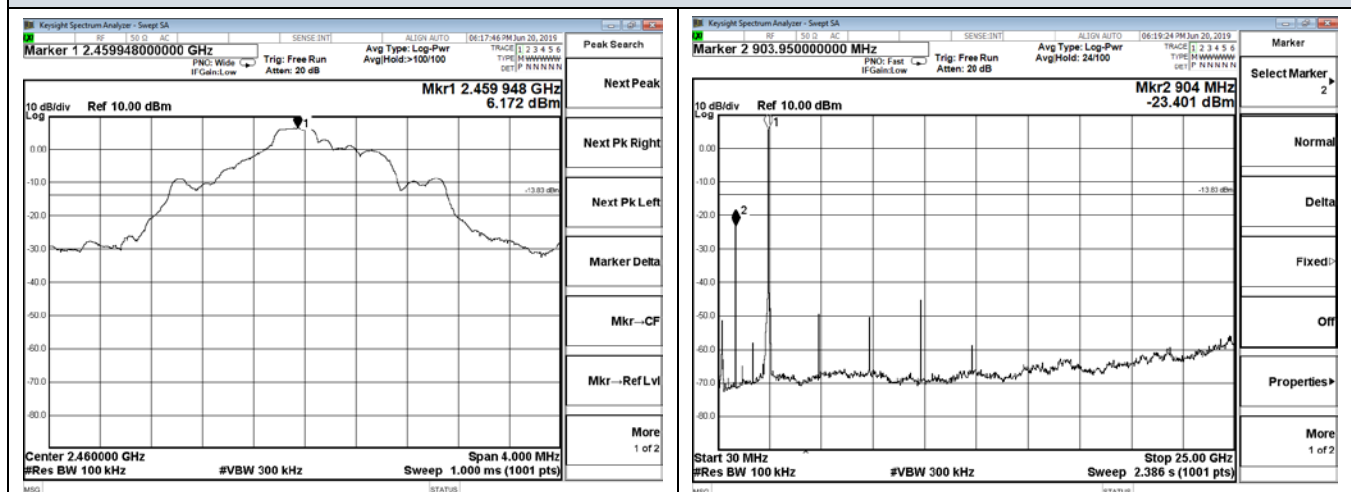
## Channel 7 / 2436 MHz



2436MHz

30 MHz – 25 GHz

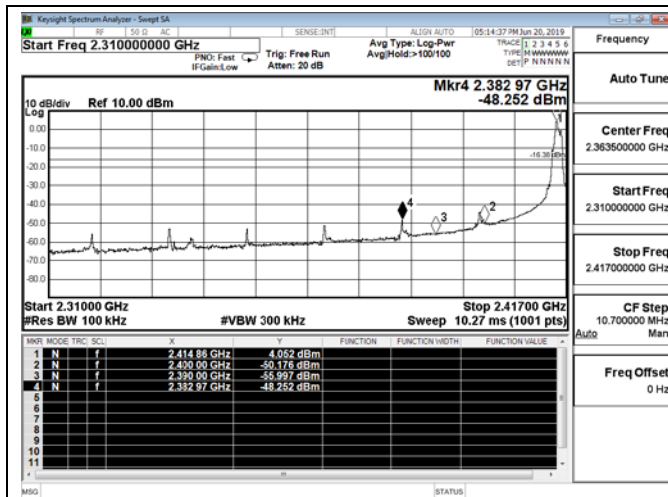
## Channel 15 / 2460 MHz



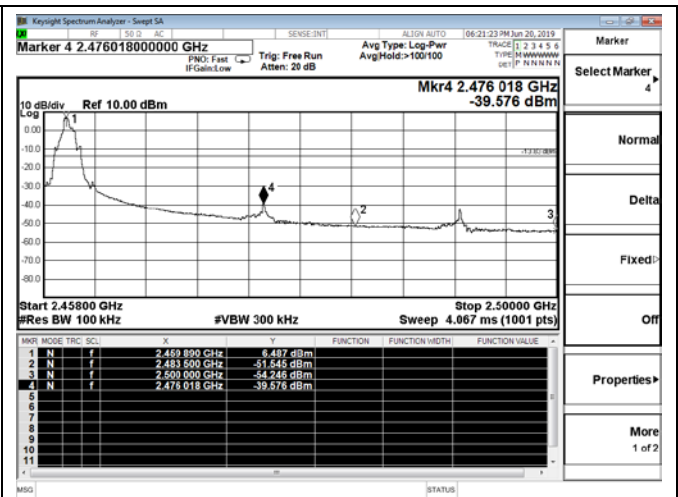
2460MHz

30 MHz – 25 GHz

## Band-edge measurements for conducted emissions



Channel 0 / 2415 MHz



Channel 15 / 2460 MHz

## 5.7. AC Power Line Conducted Emissions (Not Applicable)

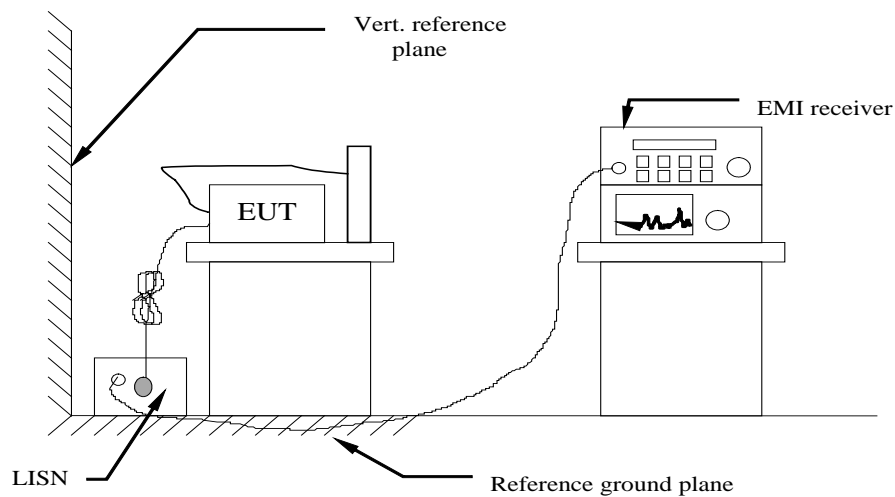
### 5.7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

\* Decreasing linearly with the logarithm of the frequency

### 5.7.2 Block Diagram of Test Setup



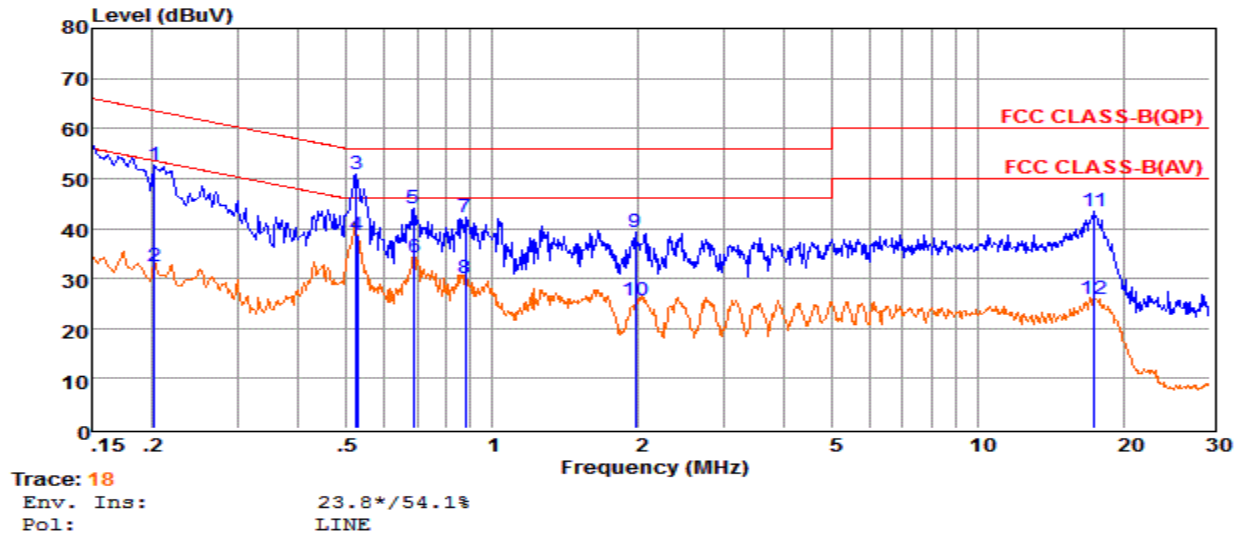
### 5.7.3 Test Results

PASS

The test data please refer to following page.

**AC Conducted Emission of powered by charge power adaptor mode @ AC 120V/60Hz (worst case)**

Line

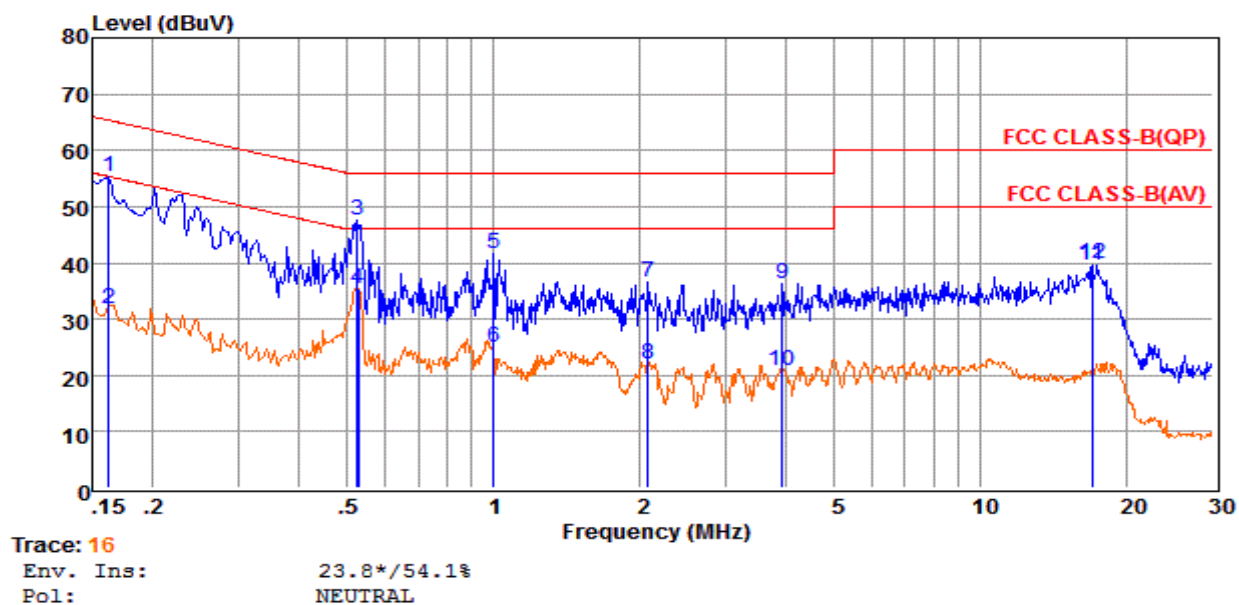


	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.20	33.11	9.63	0.02	10.00	52.76	63.54	-10.78	QP
2	0.20	12.62	9.63	0.02	10.00	32.27	53.53	-21.26	Average
3	0.53	31.10	9.62	0.04	10.00	50.76	56.00	-5.24	QP
4	0.53	19.02	9.62	0.04	10.00	38.68	46.00	-7.32	Average
5	0.69	24.36	9.64	0.04	10.00	44.04	56.00	-11.96	QP
6	0.69	14.42	9.64	0.04	10.00	34.10	46.00	-11.90	Average
7	0.88	22.52	9.63	0.04	10.00	42.19	56.00	-13.81	QP
8	0.88	10.25	9.63	0.04	10.00	29.92	46.00	-16.08	Average
9	1.97	19.68	9.64	0.05	10.00	39.37	56.00	-16.63	QP
10	1.97	5.96	9.64	0.05	10.00	25.65	46.00	-20.35	Average
11	17.38	23.69	9.73	0.11	10.00	43.53	60.00	-16.47	QP
12	17.38	6.04	9.73	0.11	10.00	25.88	50.00	-24.12	Average

Remarks: 1. Measured = Reading + LISNFac + Cable Loss + Aux2 Fac.  
2. The emission levels that are 20dB below the official limit are not reported.

Neutral





	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.16	35.56	9.67	0.02	10.00	55.25	65.34	-10.09	QP
2	0.16	12.18	9.67	0.02	10.00	31.87	55.33	-23.46	Average
3	0.53	27.94	9.62	0.04	10.00	47.60	56.00	-8.40	QP
4	0.53	15.73	9.62	0.04	10.00	35.39	46.00	-10.61	Average
5	1.00	21.91	9.63	0.05	10.00	41.59	56.00	-14.41	QP
6	1.00	5.22	9.63	0.05	10.00	24.90	46.00	-21.10	Average
7	2.08	16.76	9.63	0.05	10.00	36.44	56.00	-19.56	QP
8	2.08	2.38	9.63	0.05	10.00	22.06	46.00	-23.94	Average
9	3.92	16.46	9.65	0.06	10.00	36.17	56.00	-19.83	QP
10	3.92	1.14	9.65	0.06	10.00	20.85	46.00	-25.15	Average
11	16.93	19.63	9.76	0.11	10.00	39.50	60.00	-20.50	QP
12	16.93	19.86	9.76	0.11	10.00	39.73	50.00	-10.27	Average

Remarks: 1. Measured = Reading + LISNFac + Cable Loss + Aux2 Fac.  
2. The emission levels that are 20dB below the official limit are not reported.

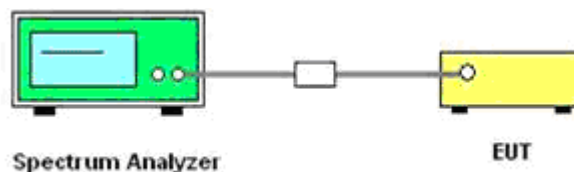
\*\*\*Note: Pre-scan all modes and recorded the worst case results in this report

## 5.8. Band-edge Measurements for Radiated Emissions

### 5.8.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 5.8.2. Test Setup Layout



### 5.8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

### 5.8.4. Test Procedures

According to KDB558074 D01 15.247 Meas.v05R02 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=1/B for Peak detector.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.
6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies  $\leq 30$  MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies  $> 1000$  MHz).
9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log D + 104.8$$

Where:

E = electric field strength in dB $\mu$ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

11. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.
12. Compare the resultant electric field strength level to the applicable regulatory limit.
13. Perform radiated spurious emission test duress until all measured frequencies were complete.

#### 5.8.5 Test Results

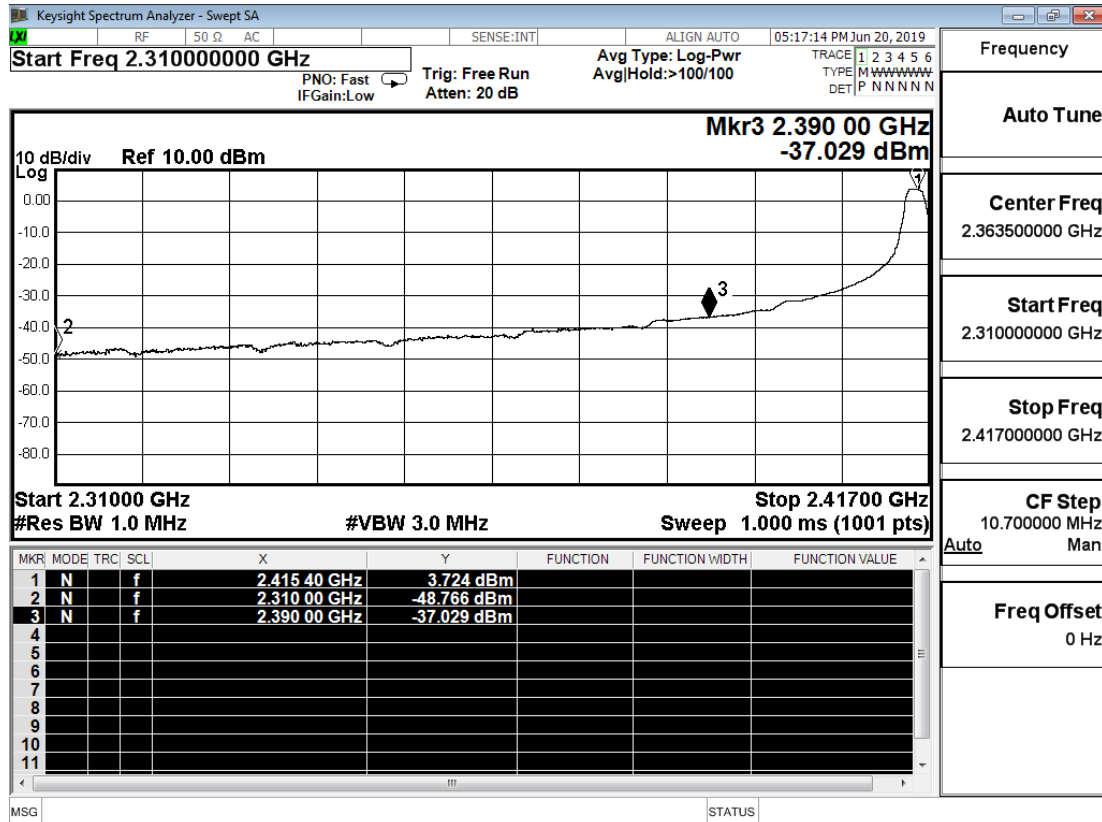
PASS

Remark:

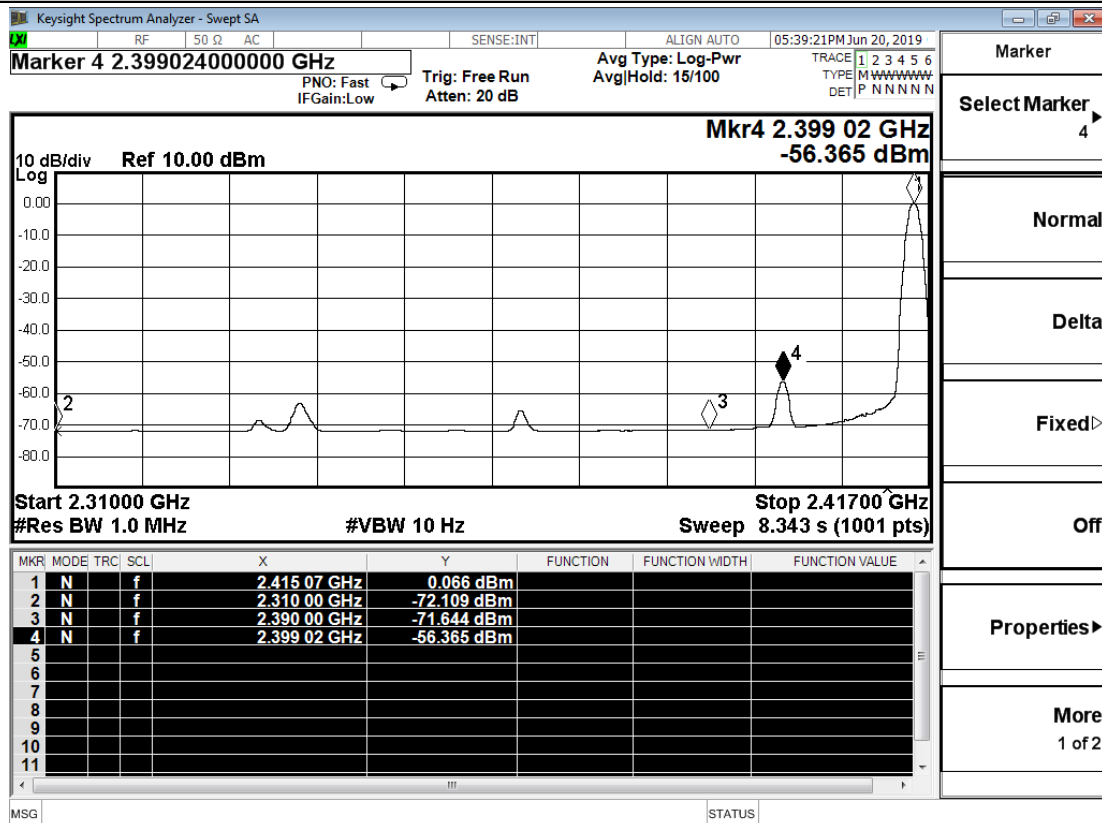
- 1). Test results including cable loss;
- 2). “---“means that the fundamental frequency not for 15.209 limits requirement;
- 3). The average measurement was not performed when the peak measured data under the limit of average detection.
- 4). Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=10Hz/Sweep time=Auto/Detector=Peak.
- 5). Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	2415	Ant1	2310.0	-48.77	2.0	0	56.81	PEAK	74	PASS
		Ant1	2310.0	-72.12	2.0	0	45.66	AV	54	PASS
		Ant1	2390.0	-37.03	2.0	0	57.57	PEAK	74	PASS
		Ant1	2390.0	-71.64	2.0	0	46.07	AV	54	PASS
	2460	Ant1	2483.5	-32.28	2.0	0	56.56	PEAK	74	PASS
		Ant1	2483.5	-70.44	2.0	0	46.21	AV	54	PASS
		Ant1	2500.0	-35.12	2.0	0	55.66	PEAK	74	PASS
		Ant1	2500.0	-70.82	2.0	0	46.35	AV	54	PASS

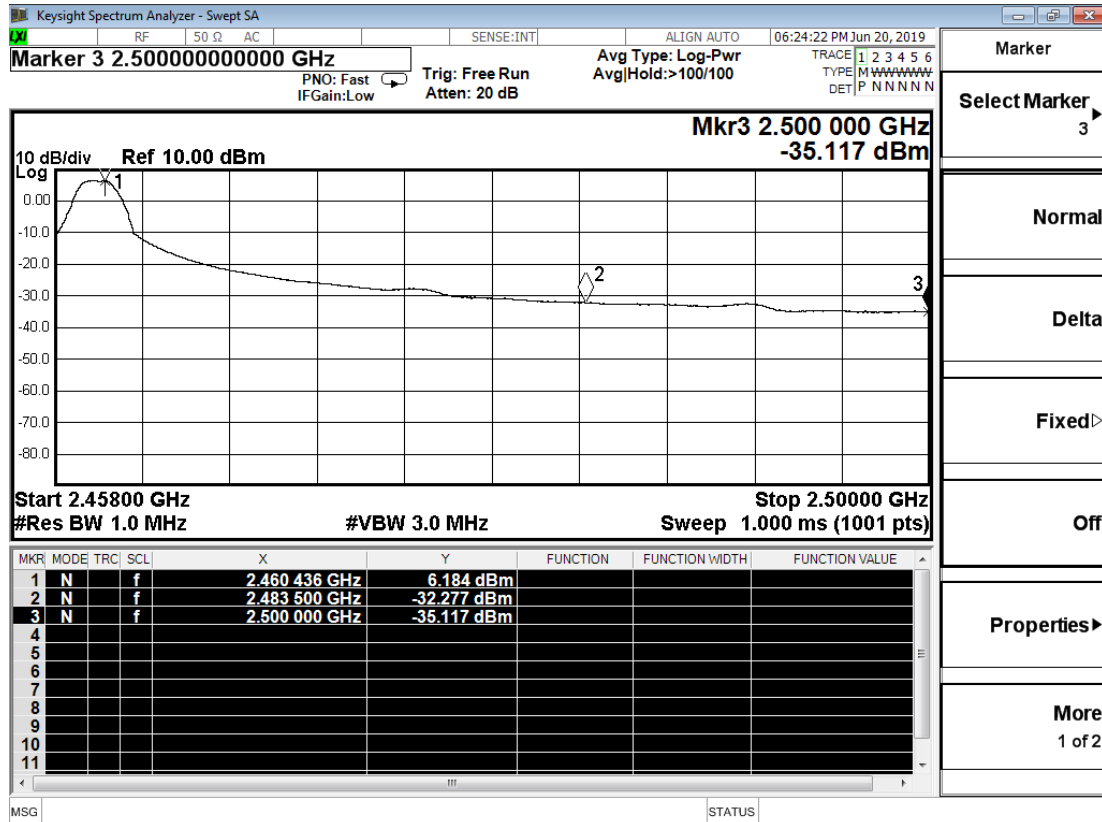
## Restrict-band band-edge measurements\_GFSK\_2415\_PEAK



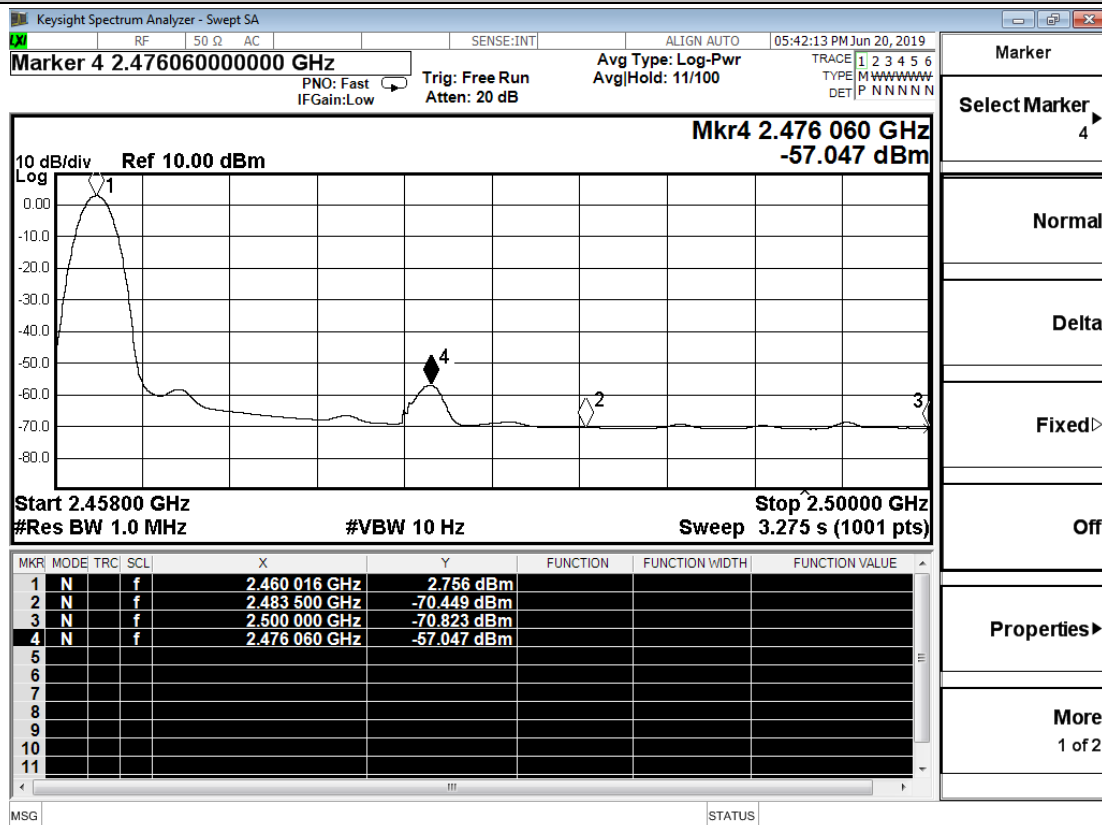
## Restrict-band band-edge measurements\_GFSK\_2415\_AV



## Restrict-band band-edge measurements\_GFSK\_2460\_PEAK



## Restrict-band band-edge measurements\_GFSK\_2460\_AV



## 5.9. Antenna Requirements

### 5.9.1 Standard Applicable

According to RSS-Gen Issue 5,

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

### 5.9.2 Antenna Connected Construction

#### 5.9.2.1. Standard Applicable

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.

#### 5.9.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting 2dBi, and the antenna is an internal antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.\

#### 5.9.2.3. Results: Compliance.

### Measurement

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module.

Conducted power refers ANSI C63.10:2013 Output power test procedure for DTS devices.

Radiated power refers to ANSI C63.10:2013 Radiated emissions tests.

### Measurement parameters

Measurement parameter	
Detector:	Peak
Sweep Time:	Auto
Resolution bandwidth:	1MHz
Video bandwidth:	3MHz
Trace-Mode:	Max hold

Note: The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module.

**Limits**

FCC		ISED		
Antenna Gain				
6 dBi				
Tnom	Vnom	lowest channel 2415MHz	middle channel 2436 MHz	highest channel 2460 MHz
Conducted power [dBm] Measured with GFSK modulation		2.820	2.0757	2.524
Radiated power [dBm] Measured with GFSK modulation		4.820	4.757	4.524
Gain [dBi] Calculated		2.00	2.00	2.00
Measurement uncertainty			± 1.6 dB (cond.) / ± 3.8 dB (rad.)	

## 6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2019-06-11	2020-06-10
2	Power Sensor	R&S	NRV-Z81	100458	2019-06-11	2020-06-10
3	Power Sensor	R&S	NRV-Z32	10057	2019-06-11	2020-06-10
4	Test Software	Tonscend	JS1120-2	N/A	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2019-06-11	2020-06-10
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2019-06-11	2020-06-10
7	DC Power Supply	Agilent	E3642A	N/A	2018-11-15	2019-11-14
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2019-06-12	2020-06-11
10	Positioning Controller	MF	MF-7082	N/A	2019-06-12	2020-06-11
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-07-26	2019-07-25
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2019-07-25
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2019-07-01
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2018-09-20	2019-09-19
15	Broadband Preamplifier	SCHWARZBECK	BBV 9719	9719-025	2018-09-20	2019-09-19
16	EMI Test Receiver	R&S	ESR 7	101181	2019-06-12	2020-06-11
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2018-11-15	2019-11-14
18	AMPLIFIER	QuieTek	QTK	CHM/0809065	2018-11-15	2019-11-14
19	RF Cable-R03m	Jye Bao	RG142	CB021	2019-06-12	2020-06-11
20	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2019-06-12	2020-06-11
21	6dB Attenuator	/	100W/6dB	1172040	2019-06-11	2020-06-10
22	3dB Attenuator	/	2N-3dB	/	2019-06-11	2020-06-10
23	EMI Test Receiver	R&S	ESPI	101840	2019-06-11	2020-06-10
24	Artificial Mains	R&S	ENV216	101288	2019-06-12	2020-06-11
25	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2019-06-11	2020-06-10

Note: All equipment is calibrated through GUANGZHOU LISAI CALIBRATION AND TEST CO.,LTD.



## **7. TEST SETUP PHOTOGRAPHS OF EUT**

Please refer to separated files for Test Setup Photos of the EUT.

## **8. EXTERIOR PHOTOGRAPHS OF THE EUT**

Please refer to separated files for External Photos of the EUT.

## **9. INTERIOR PHOTOGRAPHS OF THE EUT**

Please refer to separated files for Internal Photos of the EUT.

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