FCC TEST REPORT

For

Shenzhen Feelstorm Technology Co., Ltd

Digital Video Baby Monitor

Test Model: VB607

Prepared for Shenzhen Feelstorm Technology Co., Ltd

5F, Block C, HUAWAN Industrial PARK, BaoAn DaDao No. 119,

BaoAn District, Shenzhen, China

Prepared by Shenzhen LCS Compliance Testing Laboratory Ltd.

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Date of receipt of test sample September 21, 2020

Number of tested samples

Address

Serial number Prototype

Date of Test September 21, 2020 ~ Februray 02, 2021

Date of Report Februray 03, 2021

FCC TEST REPORT FCC CFR 47 PART 15 C (15.247)

Report Reference No.: LCS200916032AEA001

Date of Issue: Februray 03, 2021

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

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Baoan District, Shenzhen, China

Full application of Harmonised standards

Testing Location/ Procedure Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: Shenzhen Feelstorm Technology Co., Ltd

5F, Block C, HUAWAN Industrial PARK, BaoAn DaDao No. 119,

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

5V DC,1000mAh by adapter,

Ratings: DC 3.7V by battery

Result: Positive

Compiled by:

Supervised by:

Approved by:

Jayden Zhuo/ Administrators

Tayober 2hw

Jin Wang/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

Februray 03, 2021 **Test Report No.:** LCS200916032AEA001 Date of issue

Type / Model.....: VB607 EUT.....: Digital Video Baby Monitor Applicant.....: : Shenzhen Feelstorm Technology Co., Ltd 5F, Block C, HUAWAN Industrial PARK, BaoAn DaDao No. 119, BaoAn District, Shenzhen, China Address..... Telephone.....:: : / Fax..... : Shenzhen Feelstorm Technology Co., Ltd Manufacturer..... 5F, Block C, HUAWAN Industrial PARK, BaoAn DaDao No. 119, BaoAn District, Shenzhen, China Address..... Telephone.....:: : / : / Fax..... Factory.....: Shenzhen Feelstorm Technology Co., Ltd 5F, Block C, HUAWAN Industrial PARK, BaoAn DaDao No. 119, Address..... BaoAn District, Shenzhen, China Telephone..... Fax.....: : /

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	October 30, 2020	Initial Issue	Gavin Liang
001	Februray 03, 2021	Initial Issue	Gavin Liang

Note: This report is based on the report No. LCS200916032AEA. This report is replacing the original report.

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT Digital Video Baby Monitor

VB607 Test Model

Additional Model No. : / Model Declaration

5V DC,1000mAh by adapter,

Power Supply DC 3.7V by battery

Hardware Version : A02 V6.3 Software Version

For Digital Video Baby

Monitor

2415MHz-2460MHz

(2415MHz, 2418MHz, 2421MHz, 2424MHz, 2427MHz, 2430MHz, Frequency Range

2433MHz, 2436MHz, 2439MHz, 2442MHz, 2445MHz, 2448MHz,

2451MHz, 2454MHz, 2457MHz, 2460MHz)

Channel Number 16 channels

3MHz **Channel Spacing GFSK** Modulation Type

Antenna Description Internal Antenna, 2.00dBi(max.)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
E-TEK Electronics	Adoptor	ZD5C050100EUDW		SDOC
Manufactory Ltd.	Adapter	ZD3C030100E0DW		SDOC

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
POWER Port	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

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
		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	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	Channel	Frequency	Channel	Frequency	
Technology	Technology No.	(MHz)	No.	(MHz)	
	0	2415	8	2439	
	1	2418	9	2442	
OFOK	2	2421	10	2445	
	3	2424	11	2448	
GFSK	4	2427	12	2451	
	5	2430	13	2454	
	6	2433	14	2457	
	7	2436	15	2460	

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207, 15.209, 15.247 and DA 00-705.

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 normal operating mode for Hopping Numbers and Dwell Time test and a continuous transmits mode for other tests.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209, 15.247 under the FCC Rules Part 15 Subpart C.

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.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by application.

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: FCC Part 15 Subpart C						
FCC Rules	Description of Test	Test Sample	Result	Remark		
§15.247(b)(1)	Maximum Conducted Output Power	Sample 1	Compliant	Note 1		
§15.247(c)	Frequency Separation	Sample 1	Compliant	Note 1		
§15.247(c)	99% and 20dB Bandwidth	Sample 1	Compliant	Note 1		
§15.247(a)(1)(ii)	Number Of Hopping Frequency	Sample 2	Compliant	Note 1		
§15.247(a)(1)(iii)	Time Of Occupancy (Dwell Time)	Sample 2	Compliant	Note 1		
§15.209, §15.247(d)	Radiated Spurious Emissions	Sample 1	Compliant	Note 1		
§15.209, §15.247(d)	Conducted Spurious Emissions	Sample 1	Compliant	Note 1		
§15.205	Emissions at Restricted Band	Sample 1	Compliant	Note 1		
§15.207(a)	AC Mains Conducted Emissions	Sample 1	Compliant	Note 1		
§15.203	Antenna Requirements	Sample 1	Compliant	Note 2		
§15.247(i)§2.1091	RF Exposure	N/A	Compliant	Note 1		

Remark:

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

5. LIST OF MEASURING EQUIPMENTS

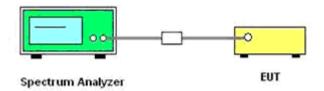
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2020-06-22	2021-06-21
2	Power Sensor	R&S	NRV-Z81	100458	2020-06-22	2021-06-21
3	Power Sensor	R&S	NRV-Z32	10057	2020-06-22	2021-06-21
4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2020-06-22	2021-06-21
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2020-11-20	2021-11-19
7	DC Power Supply	Agilent	E3642A	N/A	2020-11-12	2021-11-11
8	EMI Test Software	AUDIX	EZ	/	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-09-26	2022-09-25
10	Positioning Controller	MF	MF-7082	N/A	2020-06-22	2021-06-21
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-07-26	2021-07-25
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2021-07-25
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2021-07-01
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020-09-20	2021-09-19
15	Broadband Preamplifier	SCHWARZBECK	BBV 9719	9719-025	2020-06-22	2021-06-21
16	EMI Test Receiver	R&S	ESR 7	101181	2020-06-22	2021-06-21
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2020-11-12	2021-11-11
18	Broadband Preamplifier	/	BP-01M18G	P190501	2020-06-22	2021-06-21
19	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-22	2021-06-21
20	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-22	2021-06-21
21	6dB Attenuator	/	100W/6dB	1172040	2020-06-22	2021-06-21
22	3dB Attenuator	/	2N-3dB	/	2020-06-22	2021-06-21
23	EMI Test Receiver	R&S	ESPI	101840	2020-06-22	2021-06-21
24	Artificial Mains	R&S	ENV216	101288	2020-06-22	2021-06-21
25	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2020-06-22	2021-06-21

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

6. MEASUREMENT RESULTS

6.1 Peak Power

6.1.1 Block Diagram of Test Setup



6.1.2 Limit

According to §15.247(b)(1), For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

6.1.3 Test Procedure

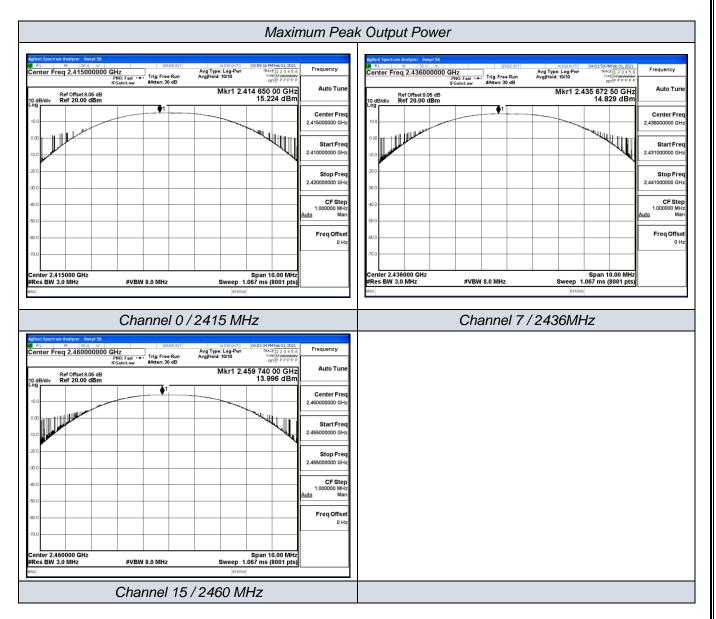
The transmitter output is connected to the spectrum.

6.1.4. Test Procedures

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW \geq RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.

6.1.5 Test Results

Channel	Frequency (MHz)	Measured Maximum Peak Power (dBm)	Limits (dBm)	Verdict
0	2415	15.224		
7	2436	14.829	21	PASS
15	2460	13.996		



Remark:

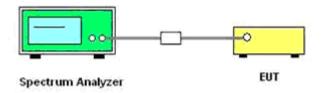
- 1. Test results including cable loss;
- 2. Measured output power at difference Packet Type for each mode and recorded worst case for each mode.

6.2 Frequency Separation and 20 dB Bandwidth

6.2.1 Limit

According to §15.247(a) (1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

6.2.2 Block Diagram of Test Setup



6.2.3 Test Procedure

Frequency separation test procedure:

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = middle of hopping channel.
- 4). Set the Spectrum Analyzer as RBW = 100 kHz, VBW = 300 kHz, Span = wide enough to capture the peaks of two adjacent channels, Sweep = auto.
- 5). Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

20dB bandwidth test procedure:

- 1). Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel.
- 2). RBW ≥1% of the 20 dB bandwidth, VBW ≥RBW.
- 3). Detector function = peak.
- 4). Trace = \max hold.

6.2.4 Test Results

6.2.4.1 99% and 20dB Bandwidth

Channel	Frequency (MHz)	20dB Bandwidth [MHz]	Limits (MHz)	Verdict
0	2415	2.095	Not	
7	2436	2.071	Specified	PASS
15	2460	2.064		

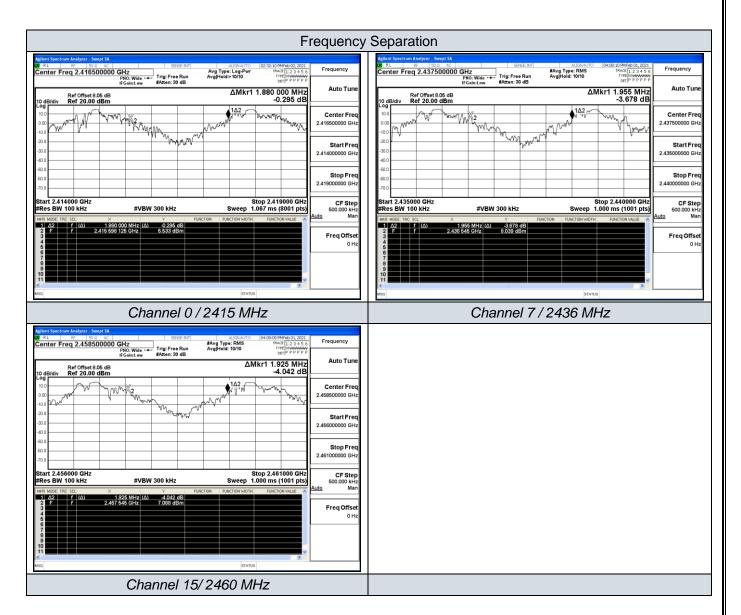


Remark:

- 1. Test results including cable loss;
- Measured 99% and 20dB Bandwidth at difference Packet Type for each mode and recorded worst case for each mode.

6.2.4.2 Frequency Separation

Channel	Frequency (MHz)	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
0	2415	1.880	1.397	
7	2436	1.955	1.381	PASS
15	2460	1.925	1.376	



Remark:

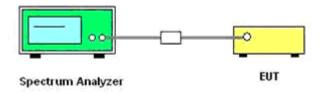
- Test results including cable loss;
- 2. Measured at difference Packet Type for each mode and recorded worst case for each mode.

6.3 Number of Hopping Frequency

6.3.1 Limit

According to §15.247(a)(1)(ii) or A8.1 (d), Frequency hopping systems operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.

6.3.2 Block Diagram of Test Setup

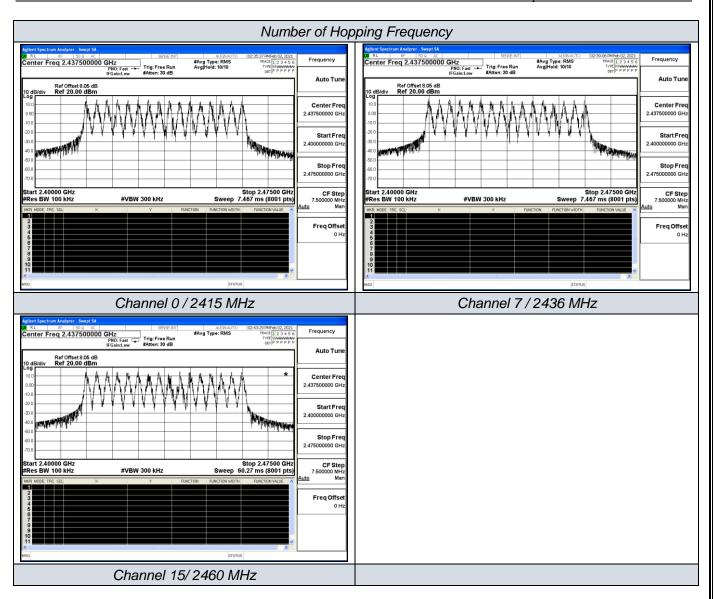


6.3.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set Spectrum Analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 4). Set the Spectrum Analyzer as RBW, VBW=1MHz.
- 5). Max hold, view and count how many channel in the band.

6.3.4 Test Results

Channel	Frequency (MHz)	Number of Hopping Channel [N]	Limit [N]	Verdict
0	2415	16	>=15	
7	2436	16	>=15	PASS
15	2460	16	>=15	



Remark:

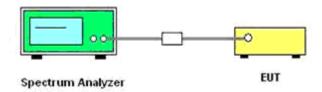
- 1. Test results including cable loss;
- 2. Measured number of hopping channels at difference Packet Type for each mode and recorded worst case for each mode.

6.4 Time of Occupancy (Dwell Time)

6.4.1 Limit

According to §15.247(a)(1)(iii) or A8.1 (d), Frequency hopping systems operating in the 2400MHz- 2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

6.4.2 Block Diagram of Test Setup



6.4.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = operating frequency.
- 4). Set the Spectrum Analyzer as RBW=1MHz, VBW=3MHz, Span = 0Hz, Sweep = auto.
- 5). Repeat above procedures until all frequency measured was complete.

6.4.4 Test Results

Channel	Frequency (MHz)	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
0	2415	0.5168	106.67	0.055	0.4	PASS
7	2436	0.5168	106.67	0.055	0.4	PASS
15	2460	0.5168	106.67	0.055	0.4	PASS



Remark:

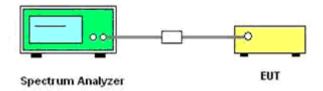
- 1. Test results including cable loss;
- 2. Measured at difference Packet Type for each mode and recorded worst case for each mode.

6.5 Conducted Spurious Emissions and Band Edges Test

6.5.1 Limit

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.

6.5.2 Block Diagram of Test Setup



6.5.3 Test Procedure

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

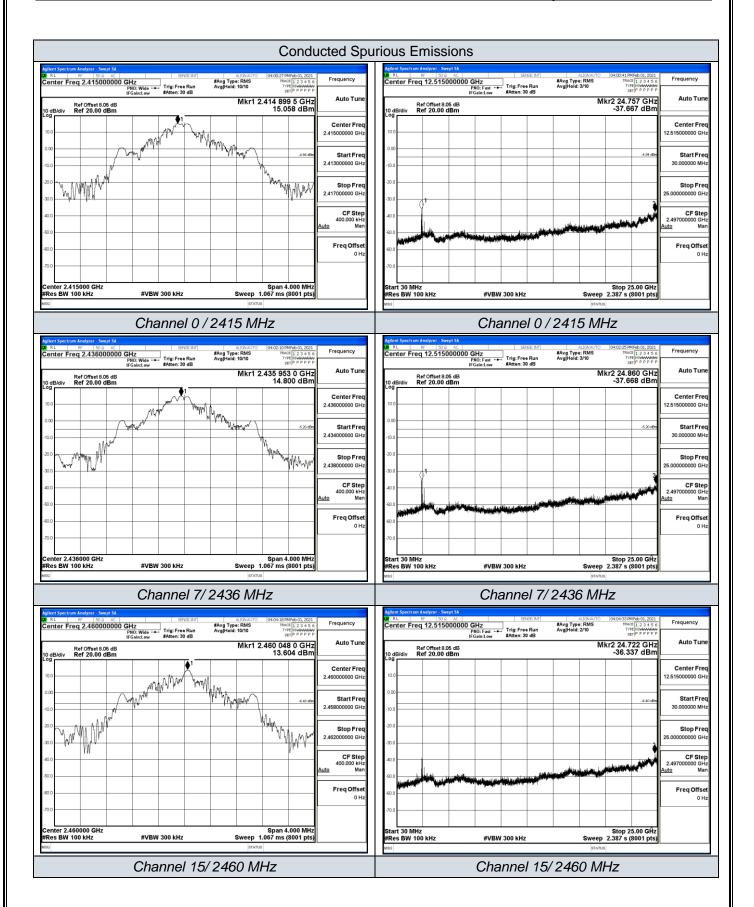
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

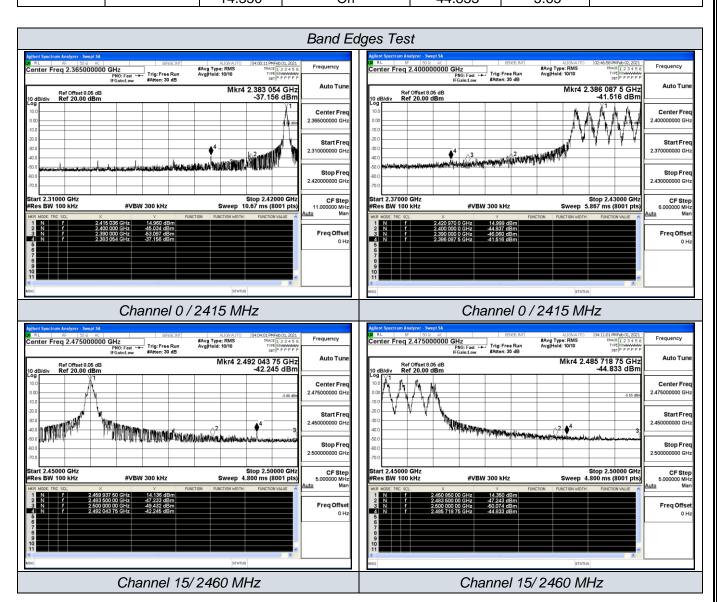
Measurements are made over the 30 MHz to 25GHz range with the transmitter set to the lowest, middle, and highest channels

6.5.4 Test Results of Conducted Spurious Emissions

No non-compliance noted. Only record the worst test result in this report. The test data refer to the following page.

	Channel	Frequency (MHz)	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
ſ	0	2415	15.058	-37.667	-4.94	
Ī	7	2436	14.800	-37.668	-5.20	PASS
Ī	15	2460	13.604	-36.337	-6.40	





Remark:

- 1. Test results including cable loss;
- 2. Measured at difference Packet Type for each mode and recorded worst case for each mode.

6.6 Restricted Band Emission Limit

6.6.1. 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 \1\ 0.495-0.505 2.1735-2.1905 4.125-4.128 4.17725-4.17775 4.20725-4.20775 6.215-6.218 6.26775-6.26825 6.31175-6.31225 8.291-8.294 8.362-8.366 8.37625-8.38675 8.41425-8.41475 12.29-12.293. 12.51975-12.52025 12.57675-12.57725	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 108-121.94 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285 322-335.4	MHz 399.9-410 608-614 960-1240 1300-1427 1435-1626.5 1645.5-1646.5 1660-1710 1718.8-1722.2 2200-2300 2310-2390 2483.5-2500 2690-2900 3260-3267 3332-3339 3345.8-3358 3600-4400	4.5-5.15 5.35-5.46 7.25-7.75 8.025-8.5 9.0-9.2 9.3-9.5 10.6-12.7 13.25-13.4 14.47-14.5 15.35-16.2 17.7-21.4 22.01-23.12 23.6-24.0 31.2-31.8 36.43-36.5 (\2\)
13.36-13.41	<u></u>		(- 7

\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

6.6.2. Measuring Instruments and Setting

Please refer to of 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 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T 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

6.6.3. 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 1.0 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

- --- 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.

- --- 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°) 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.

- --- 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 (± 45°) 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:

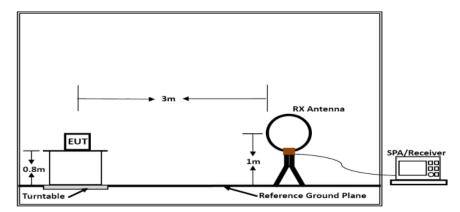
- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation 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:

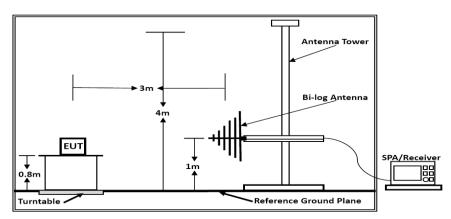
--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

- --- 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.

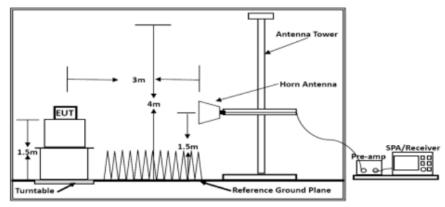
6.6.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distanc [3m] / test distance [1.5m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

6.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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

Temperature	24.6℃	Humidity	54.1%
Test Engineer	Jay Li	Configurations	GFSK

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

Note:

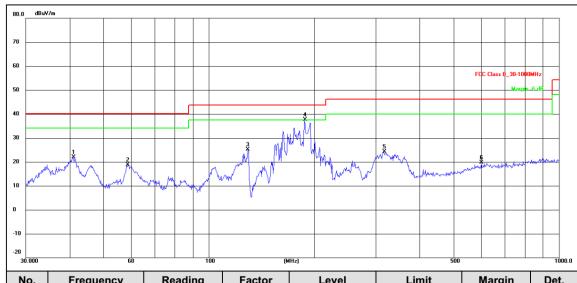
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

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

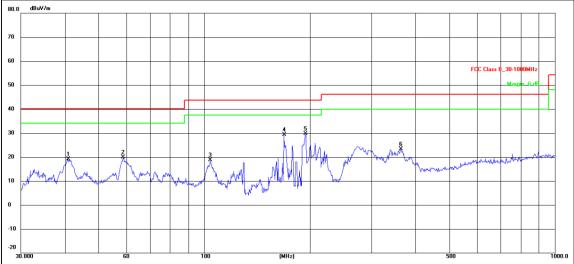
Temperature	24.6 ℃	Humidity	54.1%
Test Engineer	Jay Li	Configurations	GFSK

Vertical



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	40.9881	38.19	-16.21	21.98	40.00	-18.02	QP
2	58.8185	35.39	-16.69	18.70	40.00	-21.30	QP
3	129.4677	46.12	-20.97	25.15	43.50	-18.35	QP
4 *	187.7530	56.59	-18.96	37.63	43.50	-5.87	QP
5	316.5890	39.07	-14.76	24.31	46.00	-21.69	QP
6	601.4265	29.12	-9.39	19.73	46.00	-26.27	QP

Horizontal



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	40.8446	35.38	-16.24	19.14	40.00	-20.86	QP
2	58.8185	36.65	-16.69	19.96	40.00	-20.04	QP
3	104.1701	36.35	-17.61	18.74	43.50	-24.76	QP
4	169.0054	49.76	-20.48	29.28	43.50	-14.22	QP
5 *	194.4534	47.90	-18.17	29.73	43.50	-13.77	QP
6	364.2595	37.02	-13.75	23.27	46.00	-22.73	QP

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.

6.6.8. 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	60.45	33.06	35.04	3.94	62.41	74.00	-11.59	Peak	Horizontal
4830.3	42.14	33.06	35.04	3.94	44.10	54.00	-9.90	Average	Horizontal
7245.3	57.58	33.16	35.06	3.96	59.64	74.00	-14.36	Peak	Horizontal
7245.3	41.40	33.16	35.06	3.96	43.46	54.00	-10.54	Average	Horizontal
4830.3	57.44	33.06	35.04	3.94	59.40	74.00	-14.60	Peak	Vertical
4830.3	44.83	33.06	35.04	3.94	46.79	54.00	-7.21	Average	Vertical
7245.6	55.93	33.16	35.06	3.96	57.99	74.00	-16.01	Peak	Vertical
7245.6	41.46	33.16	35.06	3.96	43.52	54.00	-10.48	Average	Vertical

Channel 7/2436Hz

Freq.	Reading dBuV	Ant. Fac	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4872.3	53.88	33.16	35.15	3.96	55.85	74.00	-18.15	Peak	Horizontal
4872.3	43.72	33.16	35.15	3.96	45.69	54.00	-8.31	Average	Horizontal
7308.3	54.66	33.26	35.17	3.98	56.73	74.00	-17.27	Peak	Horizontal
7308.3	43.84	33.26	35.17	3.98	45.91	54.00	-8.09	Average	Horizontal
4872.3	53.72	33.16	35.15	3.96	55.69	74.00	-18.31	Peak	Vertical
4872.3	42.50	33.16	35.15	3.96	44.47	54.00	-9.53	Average	Vertical
7308.6	57.18	33.26	35.17	3.98	59.25	74.00	-14.75	Peak	Vertical
7308.6	40.56	33.26	35.17	3.98	42.63	54.00	-11.37	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	58.33	33.26	35.14	3.98	60.43	74.00	-13.57	Peak	Horizontal
4920.2	40.22	33.26	35.14	3.98	42.32	54.00	-11.68	Average	Horizontal
7380.6	60.32	33.36	35.16	4.00	62.52	74.00	-11.48	Peak	Horizontal
7380.6	41.15	33.36	35.16	4.00	43.35	54.00	-10.65	Average	Horizontal
4920.4	53.70	33.26	35.14	3.98	55.80	74.00	-18.20	Peak	Vertical
4920.4	43.60	33.26	35.14	3.98	45.70	54.00	-8.30	Average	Vertical
7380.2	60.00	33.36	35.16	4.00	62.20	74.00	-11.80	Peak	Vertical
7380.2	41.14	33.36	35.16	4.00	43.34	54.00	-10.66	Average	Vertical

Notes:

- 1). Measuring frequencies from 9 KHz~10th 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~10th 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.

6.7. AC Power Line Conducted Emissions (Not Applicable)

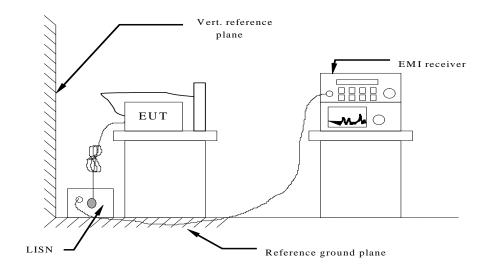
6.7.1 Standard Applicable

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	Limits (dBµV)				
(MHz)	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

6.7.2 Block Diagram of Test Setup



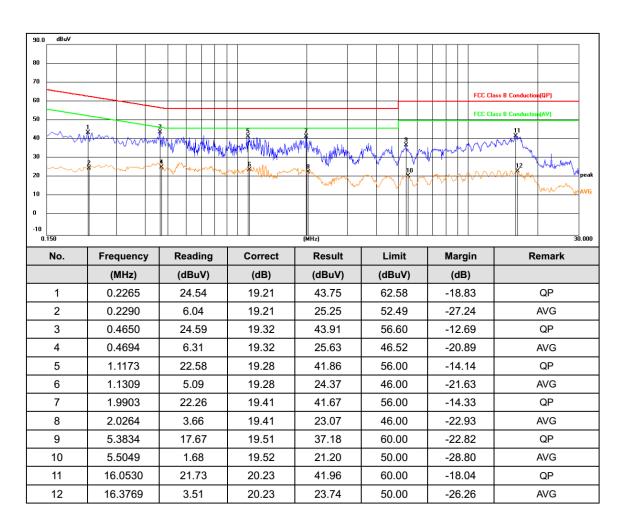
6.7.3 Test Results

PASS

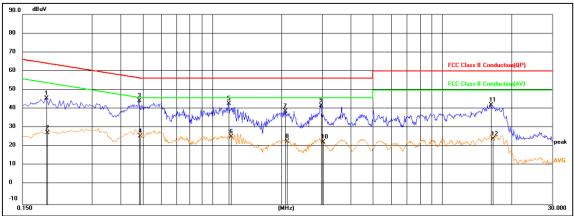
The test data please refer to following page.

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

Line



Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark			
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)				
1	0.1905	26.63	19.17	45.80	64.01	-18.21	QP			
2	0.1923	8.60	19.17	27.77	53.94	-26.17	AVG			
3	0.4829	25.21	19.32	44.53	56.29	-11.76	QP			
4	0.4874	6.56	19.32	25.88	46.21	-20.33	AVG			
5	1.1803	23.75	19.29	43.04	56.00	-12.96	QP			
6	1.2074	6.36	19.29	25.65	46.00	-20.35	AVG			
7	2.0668	19.66	19.41	39.07	56.00	-16.93	QP			
8	2.1164	3.74	19.41	23.15	46.00	-22.85	AVG			
9	2.9759	22.52	19.47	41.99	56.00	-14.01	QP			
10	3.0344	3.39	19.47	22.86	46.00	-23.14	AVG			
11	16.2285	22.16	20.22	42.38	60.00	-17.62	QP			
12	16.5165	4.06	20.22	24.28	50.00	-25.72	AVG			

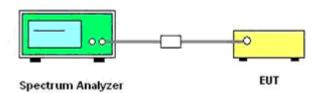
^{***}Note: Pre-scan all modes and recorded the worst case results in this report

6.8. Band-edge Measurements for Radiated Emissions

6.8.1 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)).

6.8.2. Test Setup Layout



6.8.3. Measuring Instruments and Setting

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

6.8.4. Test Procedures

According to KDB 412172 section 1.1 Field Strength Approach (linear terms):

eirp = $p_t \times g_t = (E \times d)^2/30$

Where:

 p_t = transmitter output power in watts,

 g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m).

erp = eirp/1.64 = $(E \times d)^2/(30 \times 1.64)$

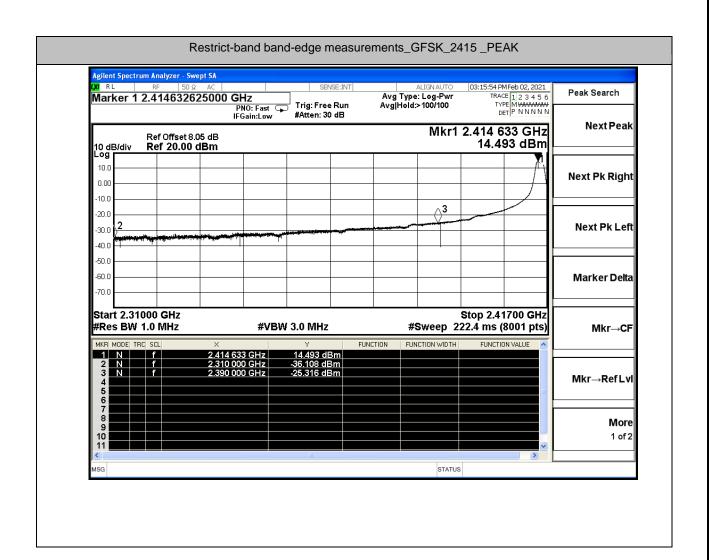
Where all terms are as previously defined.

- 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 a 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 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

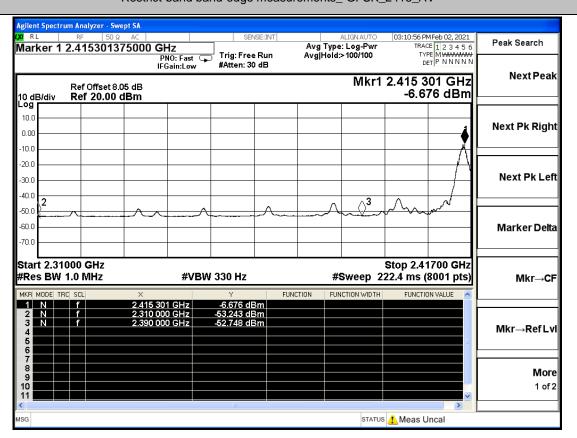
- 7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
- 8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for 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. Compare the resultant electric field strength level to the applicable regulatory limit.
- 11. Perform radiated spurious emission test duress until all measured frequencies were complete.

6.8.5. Test Results

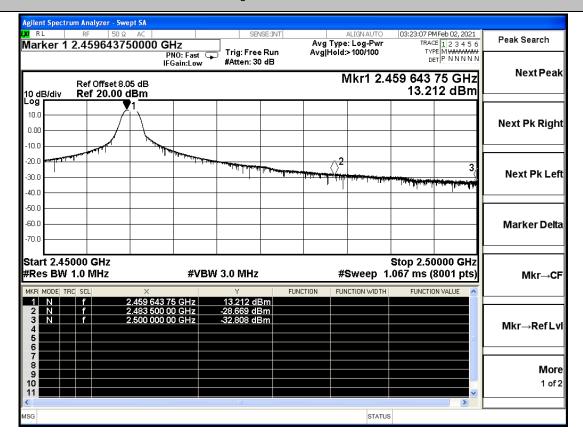
Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detect or	Limit [dBuV/ m]	Verdict
Off	2310.0	-36.11	2.0	0	61.12	PEAK	74	PASS
Off	2310.0	-53.24	2.0	0	43.99	AV	54	PASS
Off	2390.0	-25.32	2.0	0	71.91	PEAK	74	PASS
Off	2390.0	-52.75	2.0	0	44.48	AV	54	PASS
Off	2483.5	-28.67	2.0	0	68.56	PEAK	74	PASS
Off	2483.5	-50.61	2.0	0	46.62	AV	54	PASS
Off	2500.0	-32.81	2.0	0	64.42	PEAK	74	PASS
Off	2500.0	-50.40	2.0	0	46.83	AV	54	PASS

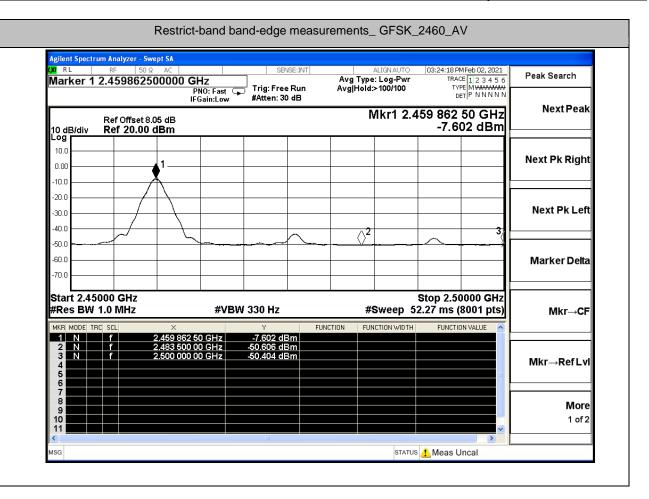


Restrict-band band-edge measurements_ GFSK_2415_AV



Restrict-band band-edge measurements_GFSK_2460_PEAK





Remark:

- 1. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 2. Worst case data at DH5 for GFSK, 2DH5 for π/4DQPSK, 3DH5 for 8DPSK modulation type;
- 3. Measured at Hopping and Non-Hopping mode, recorded worst at Non-Hopping mode.
- 4. The other emission levels were very low against the limit.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.
- Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=330Hz/Sweep time=Auto/Detector=Peak;
- 7. 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.

6.9. Pseudorandom Frequency Hopping Sequence

6.9.1 Standard Applicable

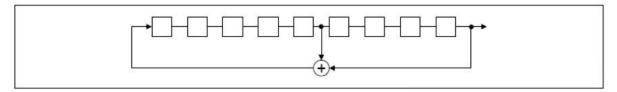
For 47 CFR Part 15C sections 15.247 (a) (1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater. provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.9.2 EUT Pseudorandom Frequency Hopping Sequence Requirement

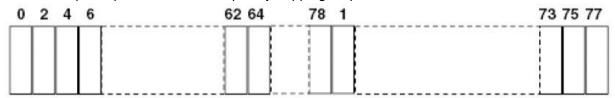
The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

6.10. Antenna Requirement

6.10.1 Standard Applicable

According to antenna requirement of §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

6.10.2 Antenna Connected Construction

6.10.2.1. Standard Applicable

According to § 15.203 & RSS-Gen, 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.

6.10.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 2.00dBi, and the antenna is a Internal Antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

6.10.2.3. Results: Compliance.

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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