

TEST REPORT

For

Applicant: Shenzhen Firstview Electronic Co., Ltd.

Address: F3, Block B, Huafeng 1st Technology Zone, Baoan Main

Road, Baoan District, Shenzhen, P.R.C

Product Name: 10.1 inch notebook

Model Name: MI1041R

Brand Name: N/A

FCC Number: FCC ID: YW5-MI1041R

Report No.: MTE/TYW/S16102236

Date of Issue: Oct.24, 2016

Issued by: Most Technology Service Co., Ltd.

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1. PRODUCT INFORMATION

Equipment Under Test:	10.1 inch notebook
Brand Name:	N/A
Model Number:	MI1041R
FCC Number:	FCC ID: YW5-MI1041R
Applicant:	Shenzhen Firstview Electronic Co., Ltd.
	F3, Block B, Huafeng 1st Technology Zone, Baoan Main Road, Baoan District, Shenzhen, P.R.C
Manufacturer:	Shenzhen Firstview Electronic Co., Ltd.
	F3, Block B, Huafeng 1st Technology Zone, Baoan Main Road, Baoan District, Shenzhen, P.R.C
Technical Standards:	47 CFR Part 15 Subpart C (Part 15.247 of the FCC Rules)
File Number:	MTE/TYW/S16102236
Date of test:	Oct.12-24, 2016
Deviation:	None
Condition of Test Sample:	Normal
Test Result:	PASS

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared by (+ signature):	Chloe	
Review by (+ signature):	Chloe Cai (Engineer)	Oct 12-24, 2016 APPROVED
	John Lin (Engineer)	Oct. 24, 2016
Approved by (+ signature):	Shir	
	Yvette Zhou (Manager)	Oct.24, 2016

) /

2. GENERAL INFORMATION

2.1 Product Information

Product	10.1 inch notebook	
Brand Name	N/A	
Model Number	MI1041R	
Series Model Name:	N/A	
Series Model Difference description:	N/A	
Power Supply	DC 5V by Adapter DC 3.7 V by Battery	
Frequency Range	2402MHz -2480MHz	
Modulation Type:	GFSK	
Channel Number	40	
Antenna Type	Internal Antenna, Antenna Gain :2dBi	
Temperature Range	-20°C ~ +70°C	

NOTE:

2.2 Objective

The objective of the report is to perform tests according to FCC Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title			
1	47 CFR Part 15	Radio Frequency Devices			
2	DA00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.			

^{1.} For a more detailed features description about the EUT, please refer to User's Manual.

2.3 Test Standards and Results

No.	Section	Test Items	Result	Date of Test
2	FCC 15.203	Antenna Requirement	PASS	2016-10-20
3	FCC15.207 (a)	AC Power Line Conducted Emission	PASS	2016-10-20
3	FCC15.209, 15.247(d)	Radiated Emission	PASS	2016-10-14
4	FCC15.247(b)(3)	Conducted Peak Output Power	PASS	2016-10-20
5	FCC15.247(a)(2)	6dB Emission Bandwidth	PASS	2016-10-20
6	FCC15.247(e)	Power Spectral Density	PASS	2016-10-20
7	FCC15.247(d)	Band Edge and Conducted Spurious Emissions	PASS	2016-10-20
8	FCC15.247(d)	Restricted Frequency Bands	PASS	2016-10-20

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST METHODOLOGY

3. 1TEST FACILITY

Most Technology Service Co., Ltd **Test Site:**

No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Location:

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

> test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013 and CISPR

16 requirements.

The FCC Registration Number is 490827. The IC Registration Number is 7103A-1.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument All measuring equipment is in accord with ANSI C63.10:2013 and CISPR 16

Tolerance: requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

> Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire

area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

Radiated Emissions

The EUT is placed on a turn table, which is 1.5 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 6.5 of ANSI C63.10:2013.

<u>Conducted Emissions</u>
The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10:2013, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable

Remark^{*}

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

4.3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2016/03/10	1 Year
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2016/03/14	1 Year
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2016/03/10	1 Year
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2016/03/07	1 Year
5	Terminator	Hubersuhner	50Ω	No.1	2016/03/07	1 Year
6	RF Cable	SchwarzBeck	N/A	No.1	2016/03/07	1 Year
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2016/03/10	1 Year
8	Bilog Antenna	Sunol	JB3	A121206	2016/03/14	1 Year
9	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2016/03/14	1 Year
10	Horn Antenna	Penn Engineering	9034	8376	2016/03/14	1 Year
11	Cable	Resenberger	N/A	NO.1	2016/03/07	1 Year
12	Cable	SchwarzBeck	N/A	NO.2	2016/03/07	1 Year
13	Cable	SchwarzBeck	N/A	NO.3	2016/03/07	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2016/03/07	1 Year
15	Test Receiver	Rohde & Schwarz	ESCI	100492	2016/03/10	1 Year
16	Loop antenna	ARA	PLA-1030/B	1039	2016/03/14	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5.1 ANTENNA REQUIREMENT

5.1.1 Applicable Standard

According to FCC § 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 replaced 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 §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 §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.

5.1.2 Evaluation Criteria

- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.1.3 Result: Compliance.

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section.

5.2 AC Power Line Conducted Emission

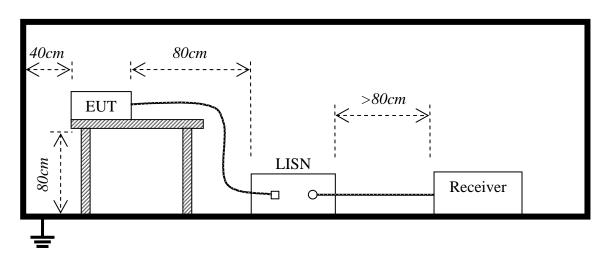
5.2.1Requirement

A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the and 150 kHz-30 MHz, shall not exceed the limits in the following table:

Fraguency	Maximum RF Line Voltage	
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

^{**}Note: 1. the lower limit shall apply at the band edges.

5.2.2 Block Diagram of Test Setup



5.2.3 Test procedure

- 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
- 2. Exploratory measurements were made to identify the frequency of the emission that has the highest amplitude relative to the limit;
- 3. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
- 4. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.
- The bandwidth of test receiver (ESCI) set at 9 KHz.
- 6. All data was recorded in the Quasi-peak and average detection mode.

5.2.4 Test Result

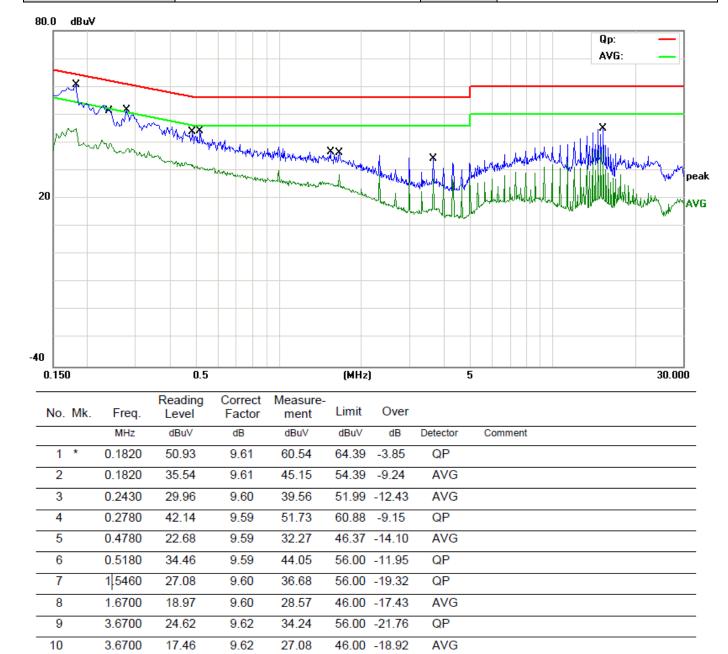
PASS

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following pages.

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK	Phase:	L1
Tested by:	Sunny Deng(Engineer)	Power:	DC 5V by Adapter
Temperature: / Humidity	23.4℃/ 52.9%	Test date:	2016-10-20



QP

AVG

60.00 -15.01

50.00 -12.50

35.29

27.80

9.70

9.70

44.99

37.50

11

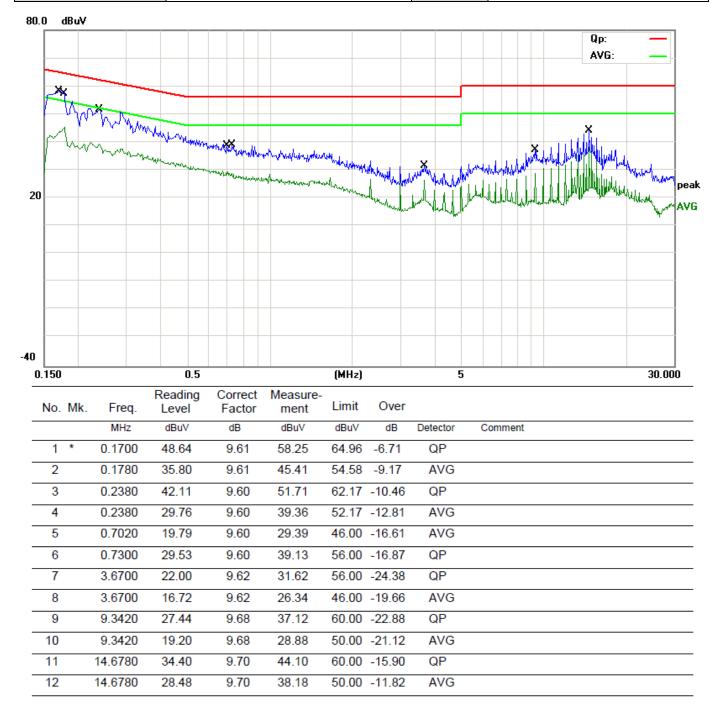
12

15.3460

15.3460

^{*:}Maximum data x:Over limit !:over margin

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK	Phase:	N
Tested by:	Sunny Deng(Engineer)	Power:	DC 5V by Adapter
Temperature: / Humidity	23.4°C/ 52.9%	Test date:	2016-10-20



^{*:}Maximum data x:Over limit !:over margin

5.3 Radiated Emission

5.3.1Requirement

According to FCC section 15.247(d), 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)).

According to FCC section 15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Test Distance (m)	Field Strength (dBµV/m at 3-meter)
0.009 - 0.490	2400/F(kHz)	300	
0.490 - 1.705	24000/F(kHz)	30	
1.705-30	30	30	
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

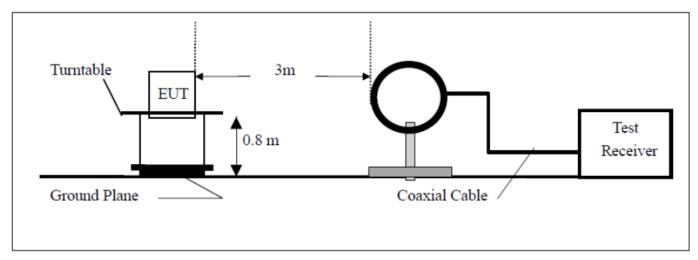
Note:

- 1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- 2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

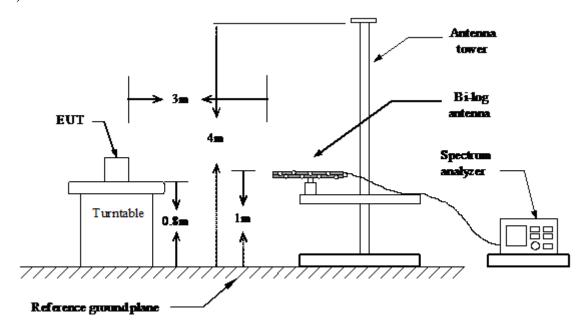
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.3.2 Test Configuration Test Setup:

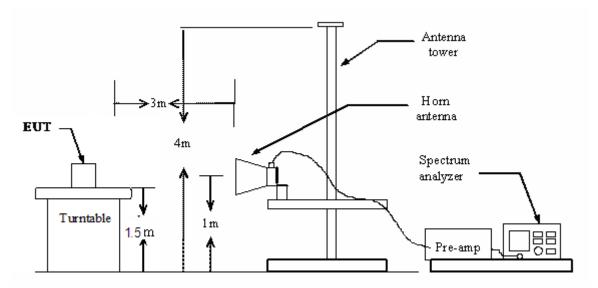
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



5.3.3 Test Procedure:

- 1. The EUT was placed on the top of a wooden table 0.8 meters (for measurement at frequency below 1GHz) and a wooden table 1.5 meters (for measurement at frequency above 1GHz) above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter, for the test frequency of above 1GHz, horn antenna opening in the test would have been facing the EUT when rise or fall) and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

6. Set the spectrum analyzer in the following setting as:

Below 1GHz: PEAK: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO QP: RBW=120 kHz / Sweep=AUTO

Above 1GHz: (a)PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b)AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

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

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

.

5.3.4 Test Result

Pass

Remark:

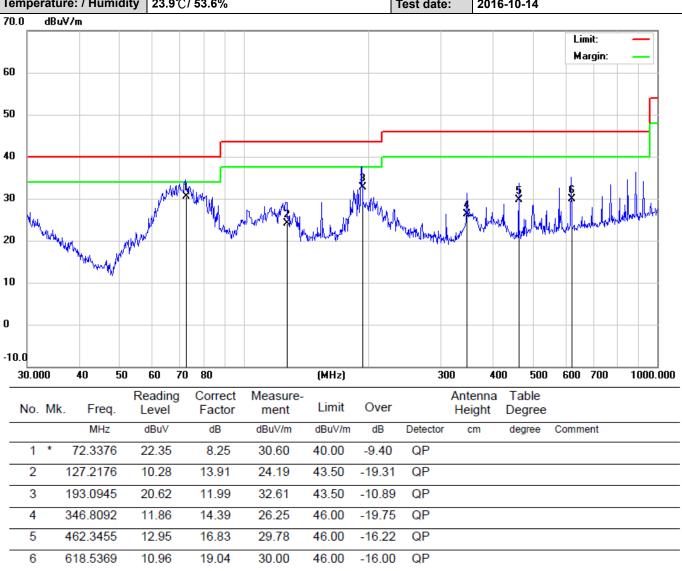
- 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
- 2. For radiated emissions from 9kHz to 30MHz, Test results show that the margin of over -20db.

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following pages

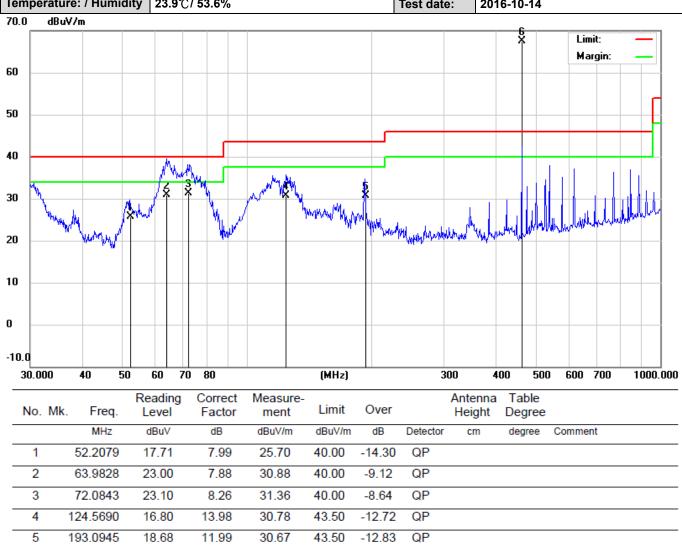
Below 1GHz:

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK-CH0	Polarization:	Horizontal
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7 V by Battery
Temperature: / Humidity	23.9℃/ 53.6%	Test date:	2016-10-14



^{*:}Maximum data x:Over limit !:over margin

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK-CH0	Polarization:	Vertical
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7 V by Battery
Temperature: / Humidity	23.9°C / 53.6%	Test date:	2016-10-14



QP

21.58

50.75

16.83

67.58

46.00

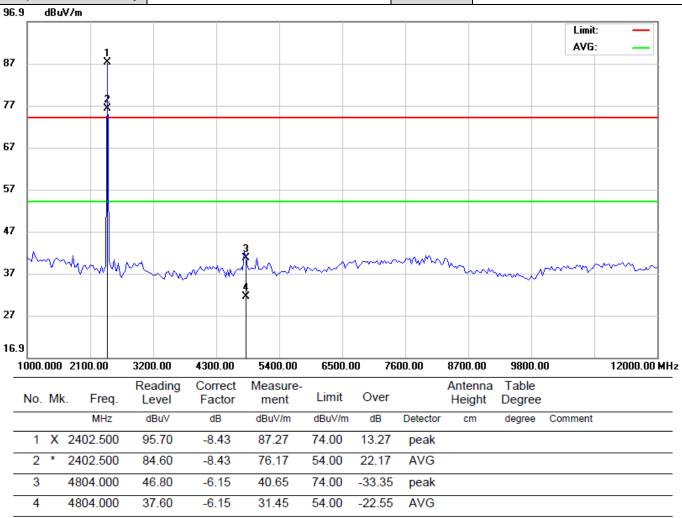
462.3455

6

^{*:}Maximum data x:Over limit !:over margin

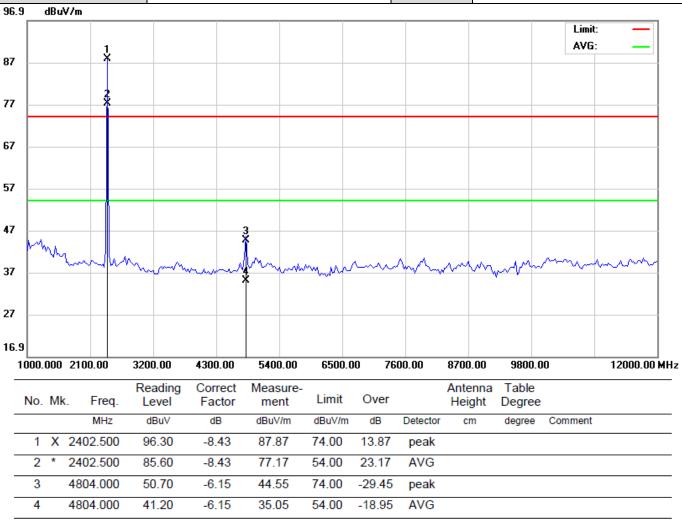
Above 1GHz:

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK-CH0	Polarization:	Horizontal
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7V by Battery
Temperature: / Humidity	22.8℃/ 53.5%	Test date:	2016-10-14



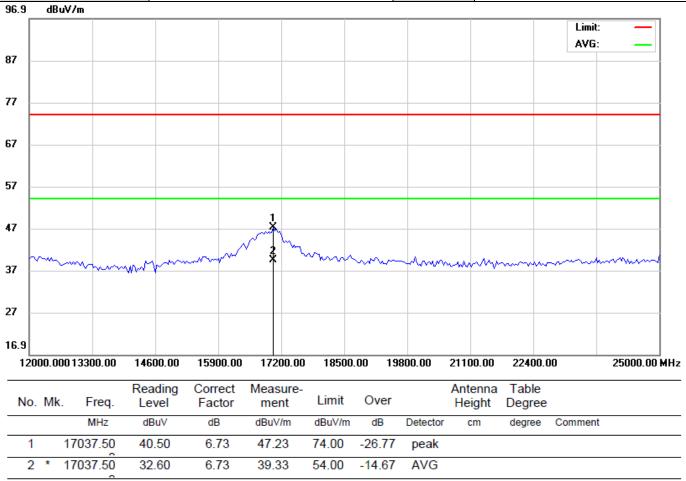
^{*:}Maximum data x:Over limit !:over margin

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK-CH0	Polarization:	Horizontal
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7V by Battery
Temperature: / Humidity	22.8°C / 53.5%	Test date:	2016-10-14



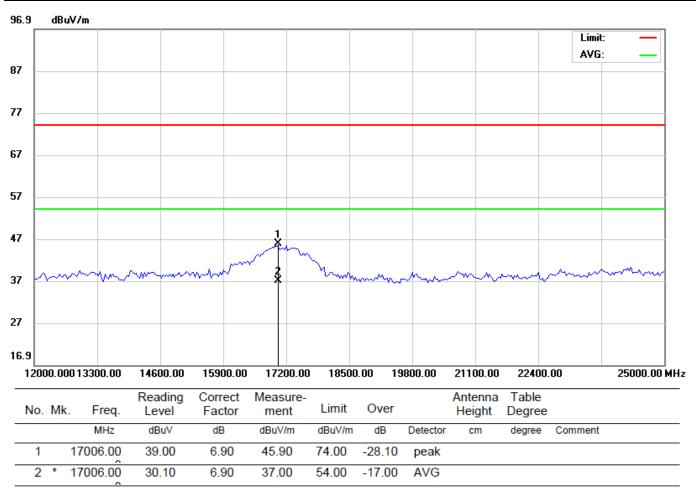
^{*:}Maximum data x:Over limit !:over margin

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK-CH0	Polarization:	Vertical
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7V by Battery
Temperature: / Humidity	22.8°C / 53.5%	Test date:	2016-10-14



^{*:}Maximum data x:Over limit !:over margin

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK-CH0	Polarization:	Vertical
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7V by Battery
Temperature: / Humidity	22.8℃/ 53.5%	Test date:	2016-10-14



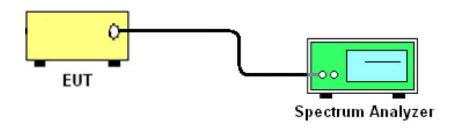
^{*:}Maximum data x:Over limit !:over margin

5.4 Conducted Peak Output Power

5.4.1 Requirement

According to FCC section 15.247(b)(3), 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.

5.5.2 Block Diagram of Test Setup



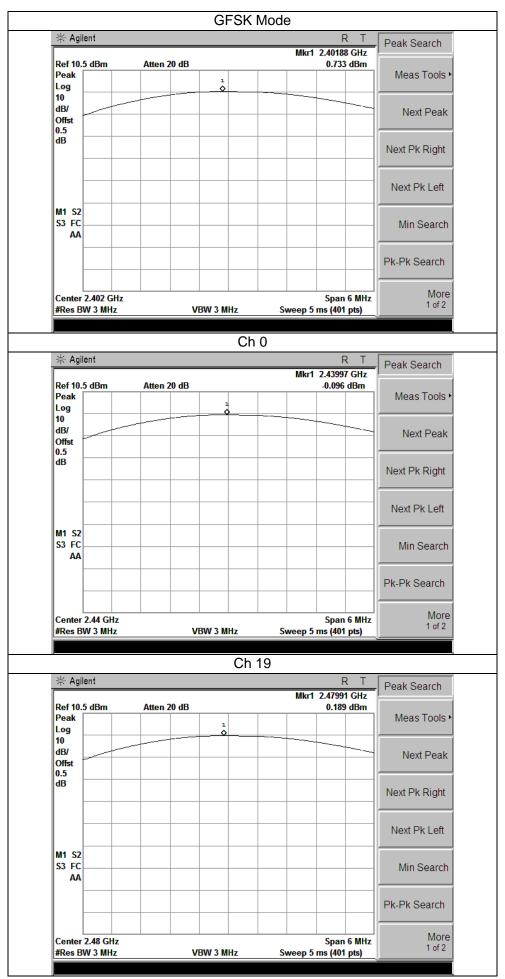
5.5.3 Test Procedure

- 1. Place the EUT on a bench and set in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
- 3. Add a correction factor to the display.

5.4.4 Test Result

Test Item:	Peak Output Power	Temperature :	21°C
Test Engineer:	John	Relative Humidity:	57%

Mode	Channel	Frequency Peak Output		Limit		Pass/Fail
ous	Circinioi	(MHz) Pow	Power(dBm)	(mW)	(dBm)	
	Low	2402	0.733	1000	30	Pass
GFSK	Middle	2440	-0.096	1000	30	Pass
	High	2480	0.189	1000	30	Pass

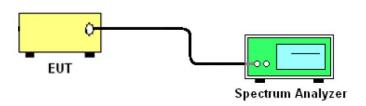


5.5 6dB Emission Bandwidth

5.5.1 Test Requirement

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.6.2 Block Diagram of Test Setup



5.5.3 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02 clause8.1 Option 1:

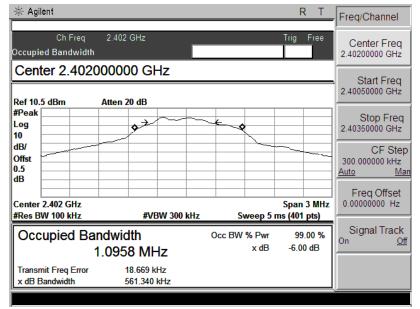
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3xRBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.5.4 Test Result

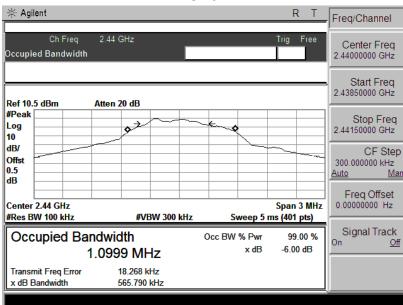
Test Item:	6dB Emission Bandwidth	Temperature :	21°C
Test Engineer:	John	Relative Humidity:	57%

Mode	Channel	Frequency (MHz)	6dB Bandwidth(KHz)	Limit(KHz)
	Low	2402	561.340	≥500
GFSK	Middle	2440	565.790	≥500
	High	2480	561.289	≥500

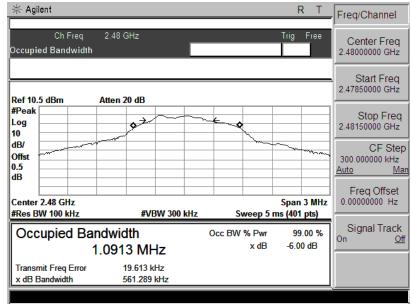
GFSK Mode



Ch₀



Ch 19



5.6 POWER SPECTRAL DENSITY

5.6.1 Applicable Standard

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

5.6.2 Block Diagram of Test Setup



5.6.3 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01clause10.2:

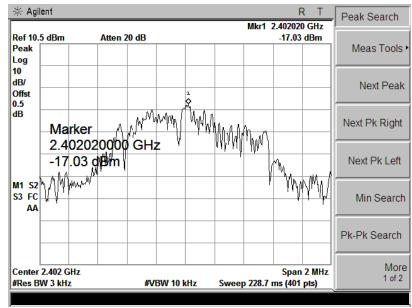
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3xRBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.6.4 Test Result

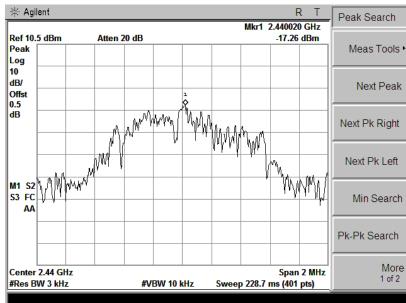
Test Item:	POWER SPECTRAL DENSITY	Temperature :	21°C
Test Engineer:	John	Relative Humidity:	57%

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Low	2402	-17.03	≪8	Pass
GFSK	Middle	2440	-17.26	≤8	Pass
	High	2480	-17.06	€8	Pass

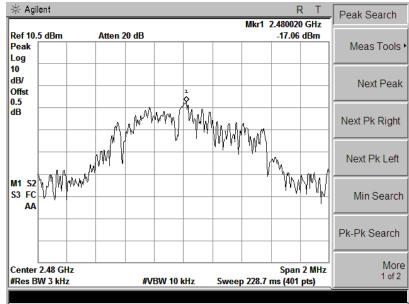
GFSK Mode



Ch₀



Ch 19



5.7 Band Edge and Conducted Spurious Emissions

5.7.1 Test Requirement

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.

5.7.2 Test Procedure

- 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 100 kHz bandwidth from band edge.
- 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.

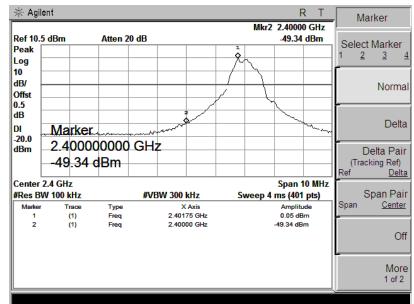
5.7.3 Test Result

Pass

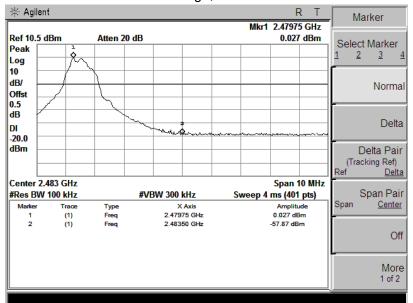
Remark:

Test Item:	Band Edge	Temperature :	21°C
Test Engineer:	John	Relative Humidity:	57%

GFSK Mode

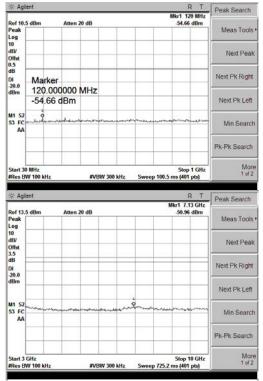


Band Edge, Left Side



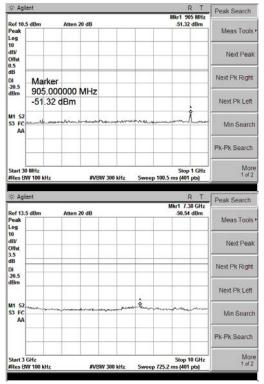
Band Edge, Right Side

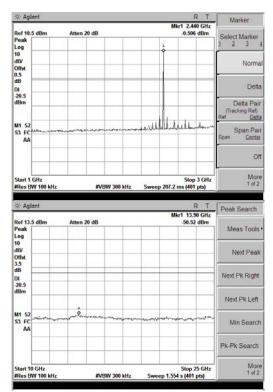
Conducted Spurious Emissions





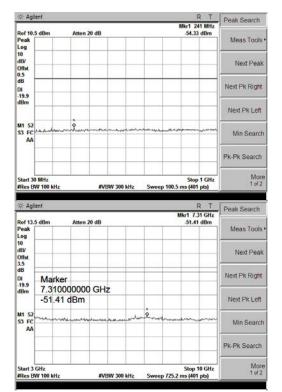
GFSK Mode, Ch0





GFSK Mode, Ch19

Conducted Spurious Emissions





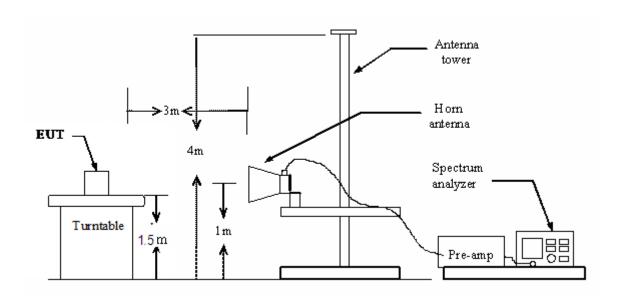
GFSK Mode, Ch39

5.8 Restricted Frequency Bands

5.8.1 Test Requirement

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. 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 Configuration Test Setup:



5.8.3 Test Procedure:

- 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

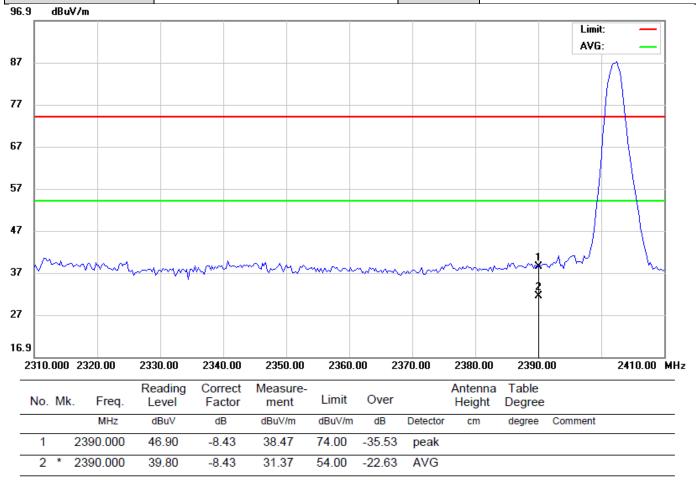
5.8.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

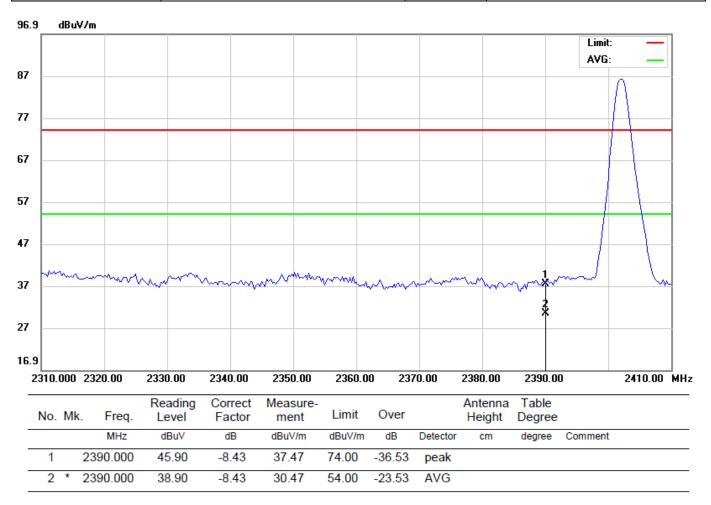
Please refer the following plots.

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK-CH0	Polarization:	Horizontal
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7V by Battery
Temperature: / Humidity	23.7°C/ 52.9%	Test date:	2016-10-20



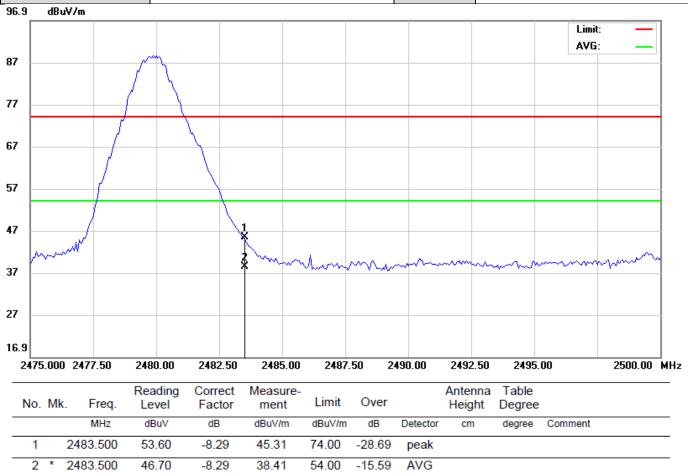
^{*:}Maximum data x:Over limit !:over margin

EUT:	10.1 inch notebook	M/N:	MI1041R
Mode:	GFSK-CH0	Polarization:	Vertical
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7V by Battery
Temperature: / Humidity	23.7℃/ 52.9%	Test date:	2016-10-20



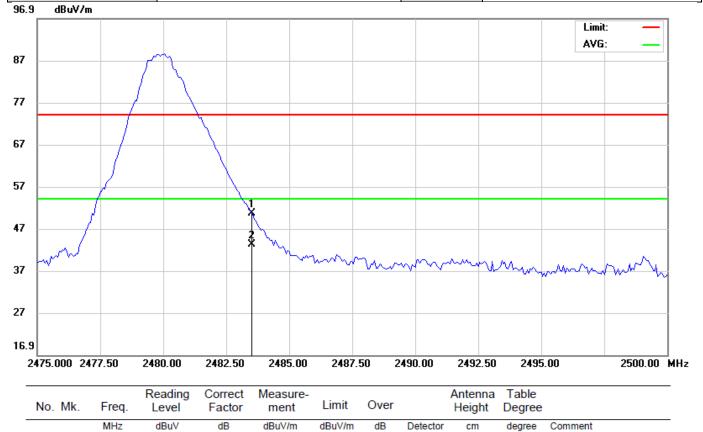
^{*:}Maximum data x:Over limit !:over margin

EUT:	10.1 inch notebook	M/N: MI1041R	
Mode:	GFSK-CH39	Polarization:	Horizontal
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7V by Battery
Temperature: / Humidity	23.7°C/ 52.9%	Test date:	2016-10-20



^{*:}Maximum data x:Over limit !:over margin

EUT:	10.1 inch notebook	M/N:	MI1041R	
Mode:	GFSK-CH39	Polarization:	Vertical	
Tested by:	Sunny Deng(Engineer)	Power:	DC 3.7V by Battery	
Temperature: / Humidity	23.7℃/ 52.9%	Test date:	2016-10-20	



74.00

54.00

-23.39

-10.89

peak

AVG

1

2483.500

2483.500

58.90

51.40

-8.29

-8.29

50.61

43.11

End of the Report

^{*:}Maximum data x:Over limit !:over margin