APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
SHENZHEN YUNMAI TECHNOLOGY CO., LTD.

YUNMAI FIT HR
Model No.: W1701

FCC ID: 2ADEB-W1701

Prepared for	:	SHENZHEN YUNMAI TECHNOLOGY CO., LTD.
Address	:	Room 2201, Block B, SunshineTechnology&Innovation Center, No.1024 Nanxin RD., Nanshan District, Shenzhen, GuangDong, 518052 China
Prepared by	:	Shenzhen Accurate Technology Co., Ltd.
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Report No.	:	ATE20172361
Date of Test	:	Nov. 23-Nov. 24, 2017
Date of Report	:	Nov. 25, 2017

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Description Page

Test Report Certification

Applicant	:	SHENZHEN YUNMAI TECHNOLOGY CO., LTD.
Manufacturer	:	SHENZHEN YUNMAI TECHNOLOGY CO., LTD.
EUT Description	:	YUNMAI FIT HR
Model No.	:	W1701
Trade Name	:	YUNMAI

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2017
ANSI C63.10: 2013

The EUT was tested according to DTS test procedure of Apr 05, 2017 KDB558074 D01 DTS Meas Guidance v04 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test :	Nov. 23-Nov. 24, 2017
Date of Report :	Nov. 25, 2017

Prepared by : _____
(Steven Yang, Engineer)

Approved & Authorized Signer : _____
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	YUNMAI FIT HR
Model Number	:	W1701
Bluetooth version	:	V4.0 BLE
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	40
Antenna Gain	:	2dBi
Antenna type	:	SMD Antenna
Power Supply	:	DC 3.8V (Powered by Lithium battery) or DC 5V (Powered by USB port)
Modulation mode	:	GFSK
Applicant	:	SHENZHEN YUNMAI TECHNOLOGY CO., LTD.
Address	:	Room 2201, Block B, SunshineTechnology&Innovation Center, No.1024 Nanxin RD., Nanshan District, Shenzhen, GuangDong, 518052 China
Manufacturer	:	SHENZHEN YUNMAI TECHNOLOGY CO., LTD.
Address	:	Room 2201, Block B, SunshineTechnology&Innovation Center, No.1024 Nanxin RD., Nanshan District, Shenzhen, GuangDong, 518052 China

1.2.Carrier Frequency of Channels

Channel	Frequceny (MHz)	Channel	Frequceny (MHz)	Channel	Frequceny (MHz)	Channe l	Frequceny (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.3.Special Accessory and Auxiliary Equipment

AC/DC Power Adapter: (provided by laboratory)	:	Model:TEKA006-0501500UKU INPUT:100-240V~50/60Hz 0.3A OUTPUT: DC 5V/1A
PC (provided by laboratory)	:	Manufacturer: LENOVO M/N: 4290-RT8 S/N: R9-FW93G 11/08

1.4.Description of Test Facility

EMC Lab	:	Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISEDC) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	:	Shenzhen Accurate Technology Co., Ltd.
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 07, 2017	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 07, 2017	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 07, 2017	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 07, 2017	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 13, 2017	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 13, 2017	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 13, 2017	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 13, 2017	1 Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 07, 2017	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 07, 2017	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18G-10SS	N/A	Jan. 07, 2017	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2485-2375/2510-60/11SS	N/A	Jan. 07, 2017	1 Year

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **BLE Transmitting mode**
Low Channel: 2402MHz
Middle Channel: 2440MHz
High Channel: 2480MHz

3.2.Configuration and peripherals

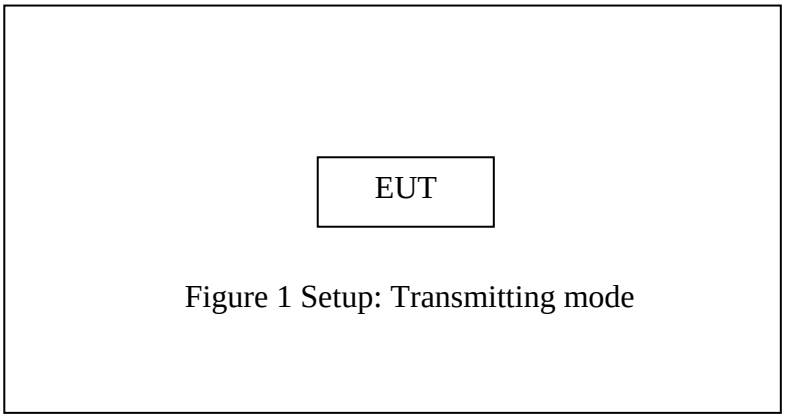


Figure 1 Setup: Transmitting mode

4. TEST PROCEDURES AND RESULTS

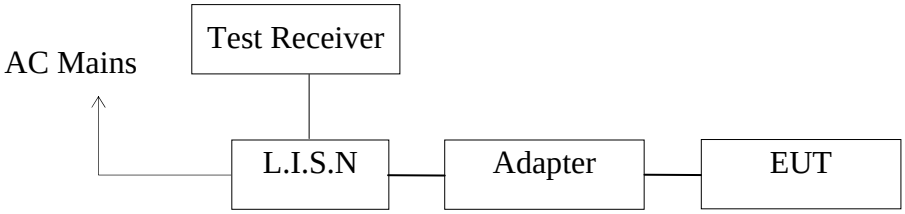
FCC Rules	Description of Test	Result
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: “N/A” means “Not applicable”.

5. POWER LINE CONDUCTED MEASUREMENT

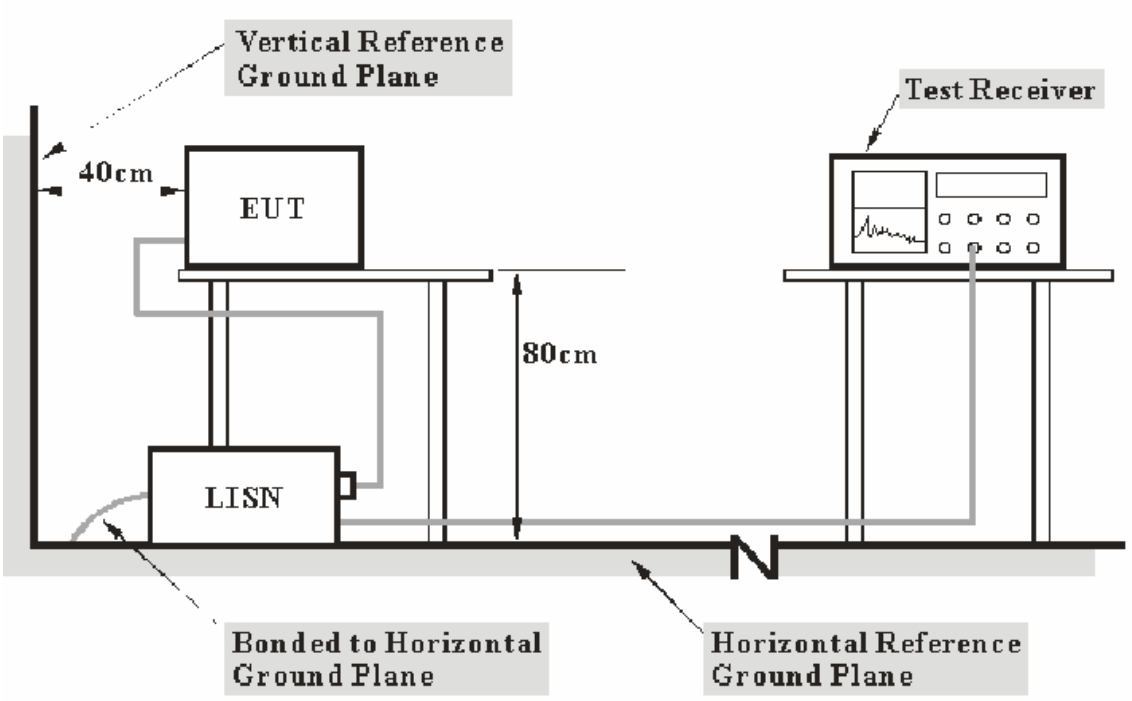
5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators



(EUT: YUNMAI FIT HR)

5.1.2. Test System Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

5.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies. NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

5.3.Configuration of EUT on Measurement

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in test mode and measure it.

5.5.Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Measurement.
The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dBμV)	Average Level (dBμV)	QuasiPeak Limit (dBμV)	Average Limit (dBμV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	11.1	41.8	32.0	56.0	46.0	14.2	14.0	Pass

Frequency(MHz) = Emission frequency in MHz
Transducer value(dB) = Insertion loss of LISN + Cable Loss
Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value
Limit (dBμV) = Limit stated in standard
Margin = Limit (dBμV) - Level (dBμV)

Calculation Formula:
Margin = Limit (dBμV) - Level (dBμV)

5.7.Power Line Conducted Emission Measurement Results

Pass.

The frequency range from 150kHz to 30MHz is checked.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.
Emissions attenuated more than 20 dB below the permissible value are not reported.

All data was recorded in the Quasi-peak and average detection mode.

The spectral diagrams are attached as below.

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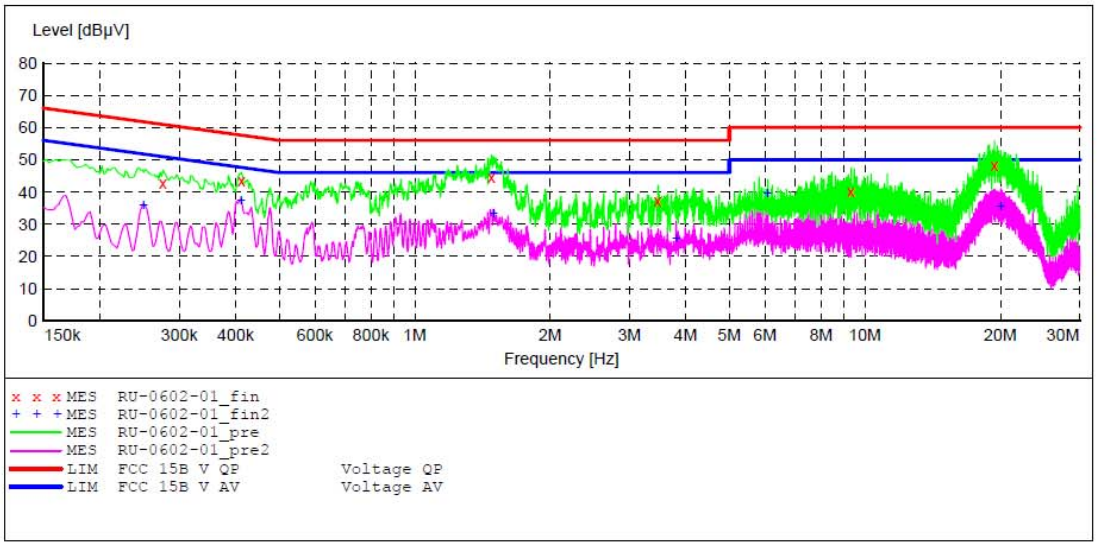
CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                  YUNMAI FIT HR  M/N:W1701
Manufacturer:         YUNMAI
Operating Condition:  Charging
Test Site:            2#Shielding Room
Operator:             DING
Test Specification:   L   240V/60Hz
Comment:              Report NO.:ATE20172361
Start of Test:        2017-11-24 / 17:47:15
```

SCAN TABLE: "V 150K-30MHz fin"

```
  Short Description:              _SUB_STD_VTERM2 1.70
  Start      Stop       Step      Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width               Time      Bandw.
  150.0 kHz  30.0 MHz   4.5 kHz   QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                  Average
```



MEASUREMENT RESULT: "RU-0602-01_fin"

2017-11-24 17:48

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.276000	42.90	10.5	61	18.0	QP	L1	GND
0.412000	43.60	10.6	58	14.0	QP	L1	GND
1.482000	44.60	10.8	56	11.4	QP	L1	GND
3.470000	37.20	11.0	56	18.8	QP	L1	GND
9.315000	40.20	11.2	60	19.8	QP	L1	GND
19.390000	48.20	11.3	60	11.8	QP	L1	GND

MEASUREMENT RESULT: "RU-0602-01_fin2"

2017-11-24 17:48

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.250000	36.20	10.5	52	15.6	AV	L1	GND
0.412000	37.60	10.6	48	10.0	AV	L1	GND
1.498000	33.60	10.8	46	12.4	AV	L1	GND
3.810000	25.80	11.0	46	20.2	AV	L1	GND
6.085000	39.80	11.1	50	10.2	AV	L1	GND
20.015000	35.90	11.3	50	14.1	AV	L1	GND

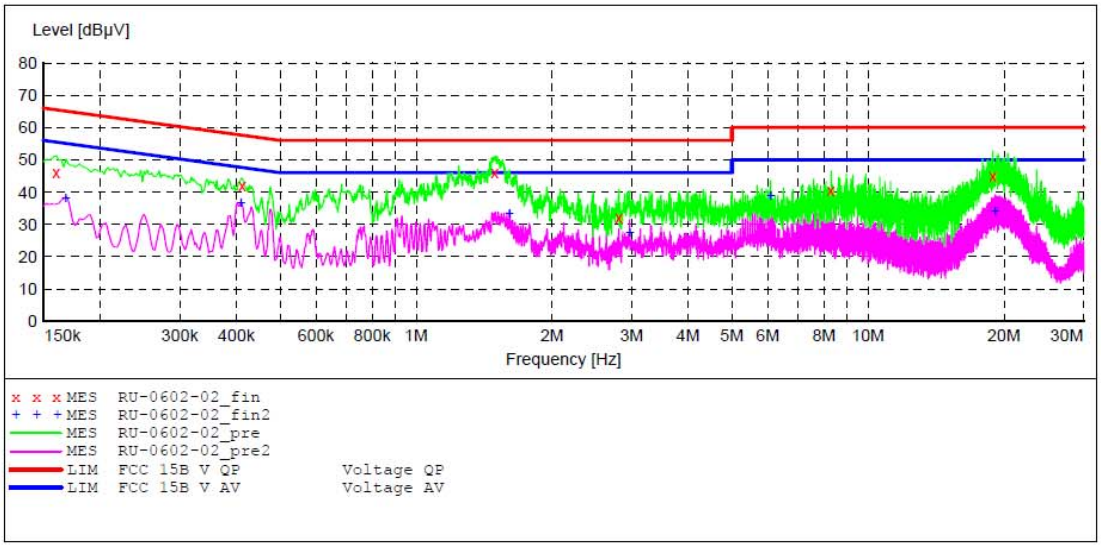
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                  YUNMAI FIT HR  M/N:W1701
Manufacturer:         YUNMAI
Operating Condition:  Charging
Test Site:            2#Shielding Room
Operator:             DING
Test Specification:   N   240V/60Hz
Comment:              Report NO.:ATE20172361
Start of Test:        2017-11-24 / 17:50:20
```

SCAN TABLE: "V 150K-30MHz fin"

```
  Short Description:            _SUB_STD_VTERM2 1.70
  Start      Stop       Step      Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width               Time      Bandw.
  150.0 kHz  30.0 MHz   4.5 kHz   QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                  Average
```



MEASUREMENT RESULT: "RU-0602-02_fin"

2017-11-24 17:51

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.160000	46.00	10.4	66	19.5	QP	N	GND
0.412000	41.90	10.6	58	15.7	QP	N	GND
1.494000	46.10	10.8	56	9.9	QP	N	GND
2.810000	32.20	11.0	56	23.8	QP	N	GND
8.285000	40.70	11.2	60	19.3	QP	N	GND
18.895000	44.90	11.3	60	15.1	QP	N	GND

MEASUREMENT RESULT: "RU-0602-02_fin2"

2017-11-24 17:51

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.168000	38.30	10.4	55	16.8	AV	N	GND
0.410000	37.00	10.6	48	10.6	AV	N	GND
1.610000	33.40	10.9	46	12.6	AV	N	GND
2.970000	27.60	11.0	46	18.4	AV	N	GND
6.090000	38.90	11.1	50	11.1	AV	N	GND
19.115000	34.40	11.3	50	15.6	AV	N	GND

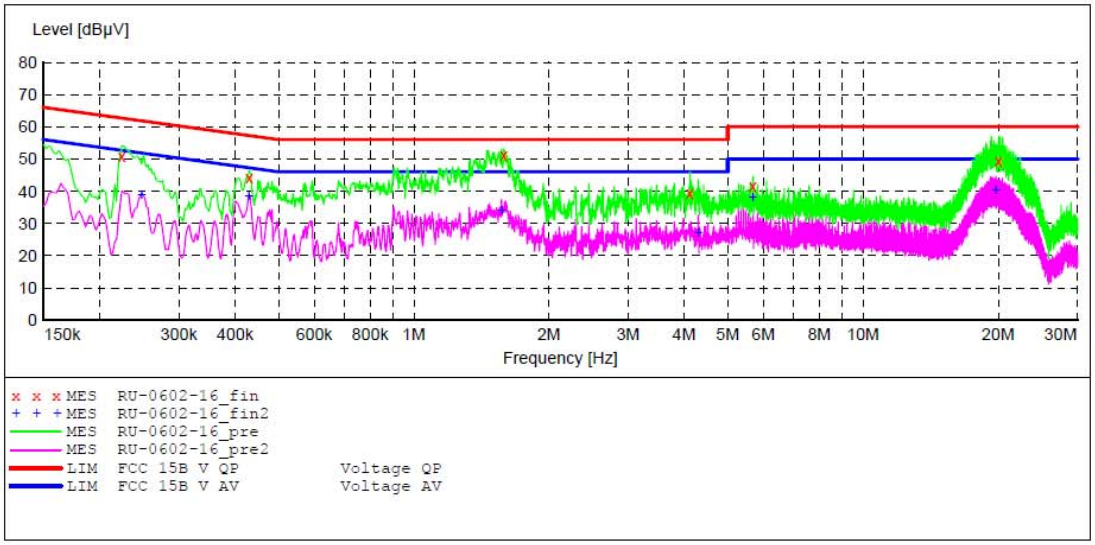
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                 YUNMAI FIT HR  M/N:W1701
Manufacturer:        YUNMAI
Operating Condition: Charging
Test Site:           2#Shielding Room
Operator:            DING
Test Specification:  L   120V/60Hz
Comment:             Report NO.:ATE20172361
Start of Test:       2017-11-24 / 19:11:24
```

SCAN TABLE: "V 150K-30MHz fin"

```
  Short Description:            _SUB_STD_VTERM2 1.70
  Start      Stop       Step       Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                Time      Bandw.
  150.0 kHz  30.0 MHz   4.5 kHz    QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                   Average
```



MEASUREMENT RESULT: "RU-0602-16_fin"

2017-11-24 19:13

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.224000	51.00	10.5	63	11.7	QP	L1	GND
0.430000	44.10	10.6	57	13.2	QP	L1	GND
1.586000	51.10	10.9	56	4.9	QP	L1	GND
4.120000	39.40	11.0	56	16.6	QP	L1	GND
5.690000	41.80	11.1	60	18.2	QP	L1	GND
20.055000	49.50	11.3	60	10.5	QP	L1	GND

MEASUREMENT RESULT: "RU-0602-16_fin2"

2017-11-24 19:13

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.248000	39.00	10.5	52	12.8	AV	L1	GND
0.430000	38.80	10.6	47	8.5	AV	L1	GND
1.568000	34.20	10.8	46	11.8	AV	L1	GND
4.300000	27.50	11.0	46	18.5	AV	L1	GND
5.690000	38.50	11.1	50	11.5	AV	L1	GND
19.735000	40.40	11.3	50	9.6	AV	L1	GND

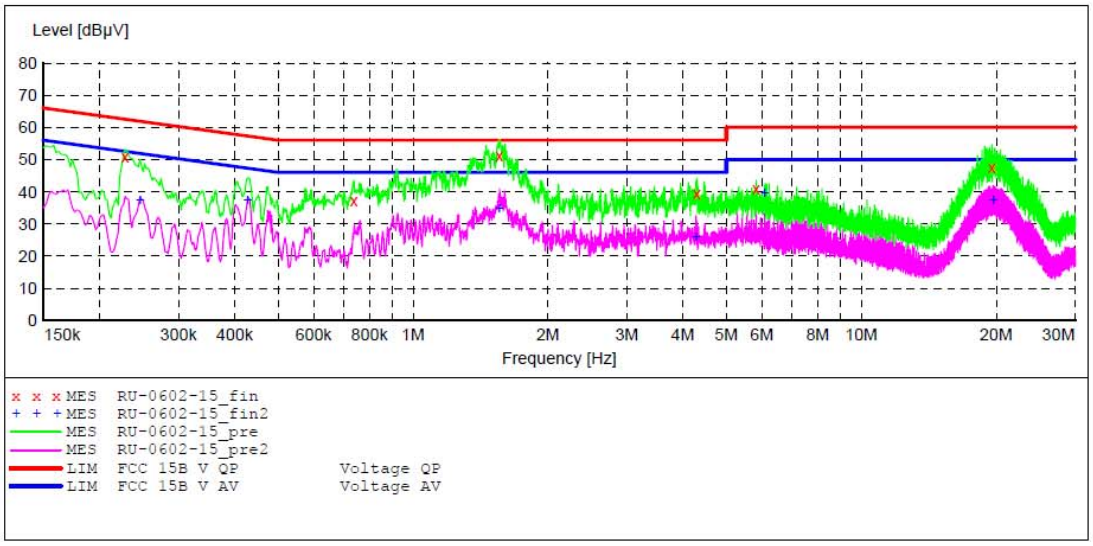
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                  YUNMAI FIT HR  M/N:W1701
Manufacturer:         YUNMAI
Operating Condition:  Charging
Test Site:            2#Shielding Room
Operator:             DING
Test Specification:   N   120V/60Hz
Comment:              Report NO.:ATE20172361
Start of Test:        2017-11-24 / 19:09:08
```

SCAN TABLE: "V 150K-30MHz fin"

```
  Short Description:            _SUB_STD_VTERM2 1.70
  Start      Stop       Step       Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                Time      Bandw.
  150.0 kHz  30.0 MHz   4.5 kHz    QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                   Average
```



MEASUREMENT RESULT: "RU-0602-15_fin"

2017-11-24 19:10

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.228000	51.00	10.5	63	11.5	QP	N	GND
0.738000	37.30	10.7	56	18.7	QP	N	GND
1.560000	51.20	10.8	56	4.8	QP	N	GND
4.300000	39.60	11.0	56	16.4	QP	N	GND
5.825000	40.80	11.1	60	19.2	QP	N	GND
19.560000	47.60	11.3	60	12.4	QP	N	GND

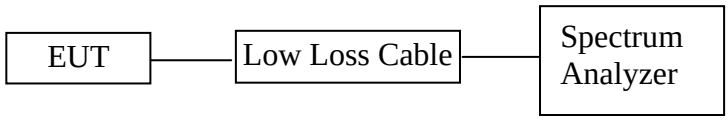
MEASUREMENT RESULT: "RU-0602-15_fin2"

2017-11-24 19:10

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.246000	37.80	10.5	52	14.1	AV	N	GND
0.428000	37.70	10.6	47	9.6	AV	N	GND
1.560000	34.90	10.8	46	11.1	AV	N	GND
4.280000	26.10	11.0	46	19.9	AV	N	GND
6.095000	39.70	11.1	50	10.3	AV	N	GND
19.675000	37.70	11.3	50	12.3	AV	N	GND

6. 6DB BANDWIDTH MEASUREMENT

6.1.Block Diagram of Test Setup



(EUT: YUNMAI FIT HR)

6.2.The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

6.5.Test Procedure

6.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

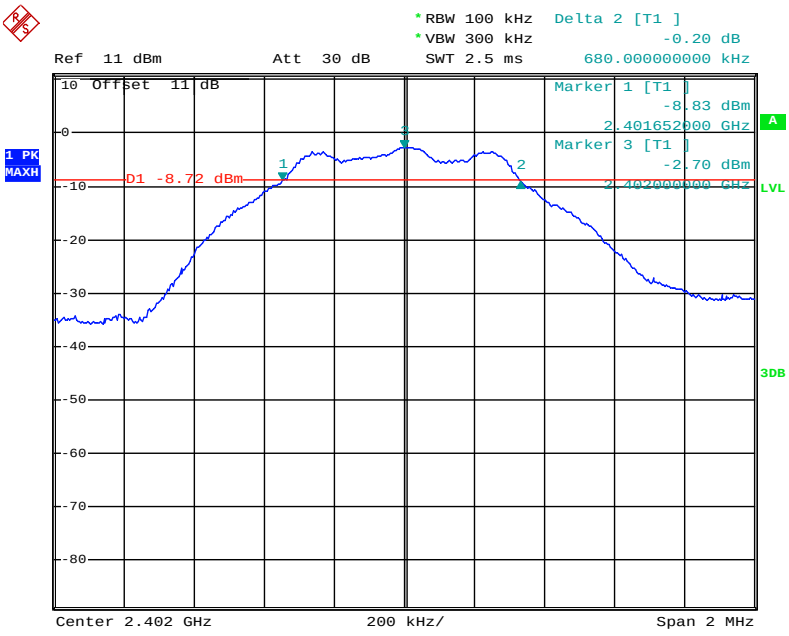
6.5.3.The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

6.6.Test Result

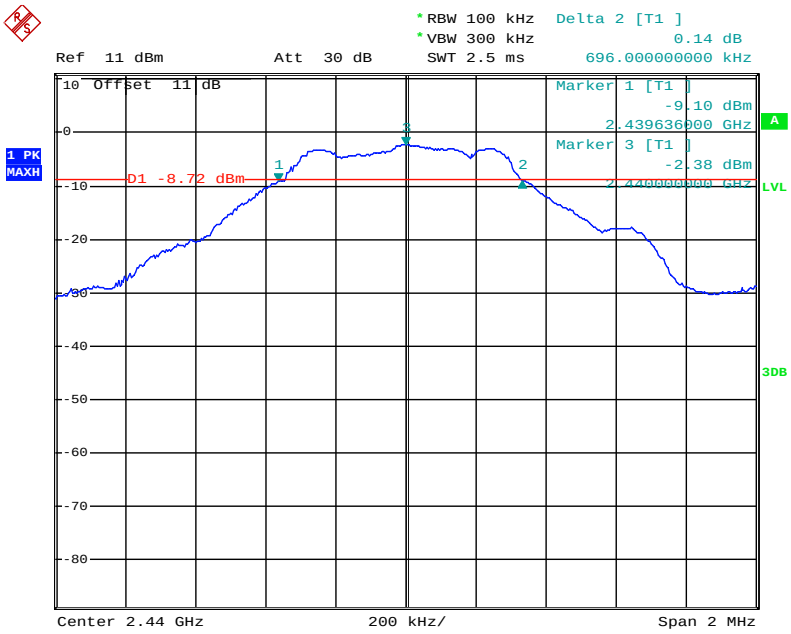
Channel	Frequency (MHz)	6 dB Bandwith (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.680	0.5	PASS
19	2440	0.692	0.5	PASS
39	2480	0.676	0.5	PASS

The spectrum analyzer plots are attached as below.

channel 0



channel 19



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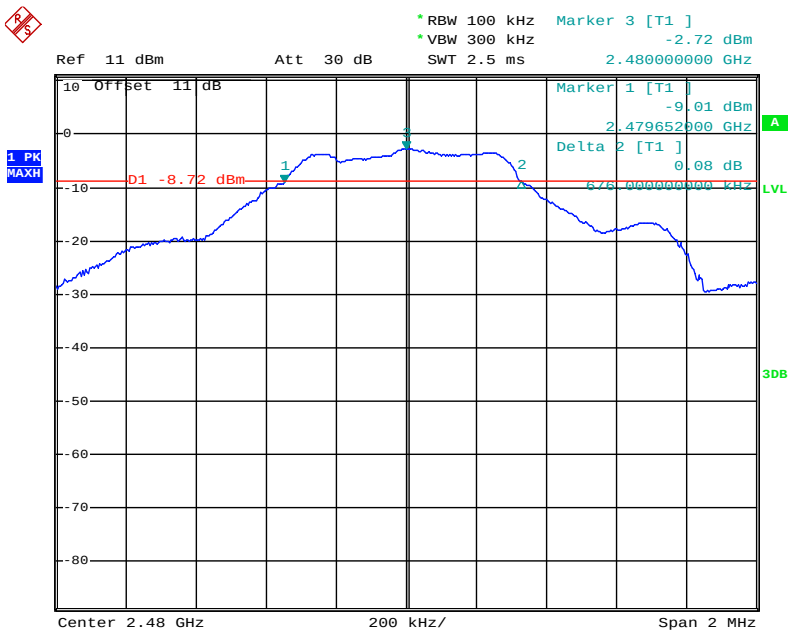
channel 39



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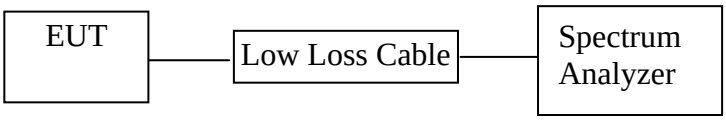
7. MAXIMUM PEAK OUTPUT POWER

7.1.Block Diagram of Test Setup



(EUT: YUNMAI FIT HR)

7.2.The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

7.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 7.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

7.5.Test Procedure

7.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2.Set RBW of spectrum analyzer to 1 MHz and VBW to 3MHz.

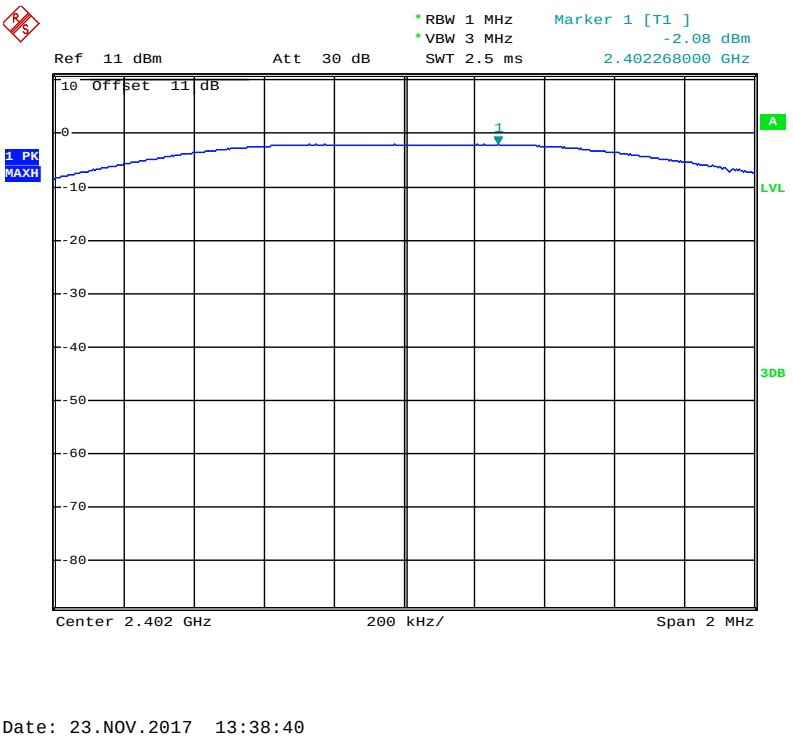
7.5.3.Measurement the maximum peak output power.

7.6.Test Result

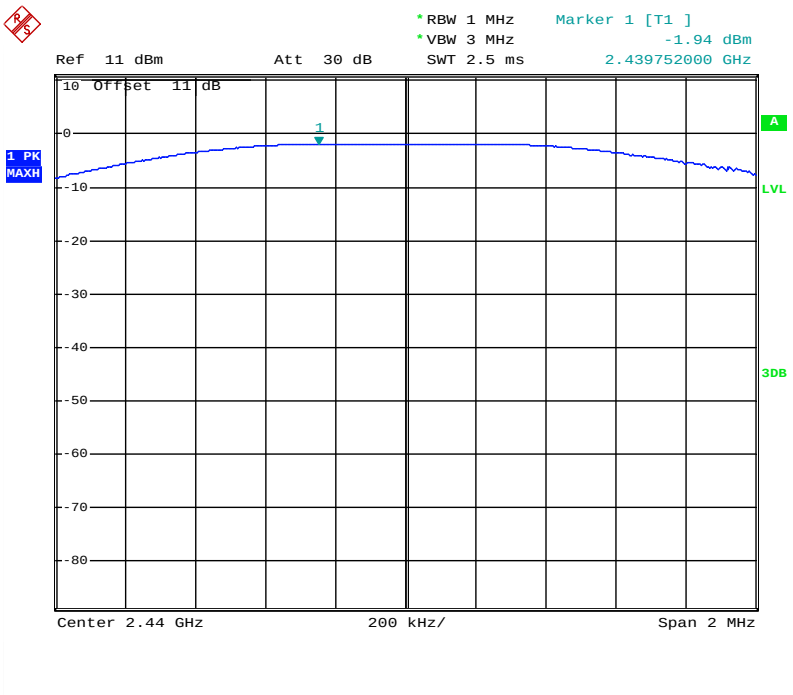
Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	-2.08	30	PASS
19	2440	-1.94	30	PASS
39	2480	-2.71	30	PASS

The spectrum analyzer plots are attached as below.

channel 0

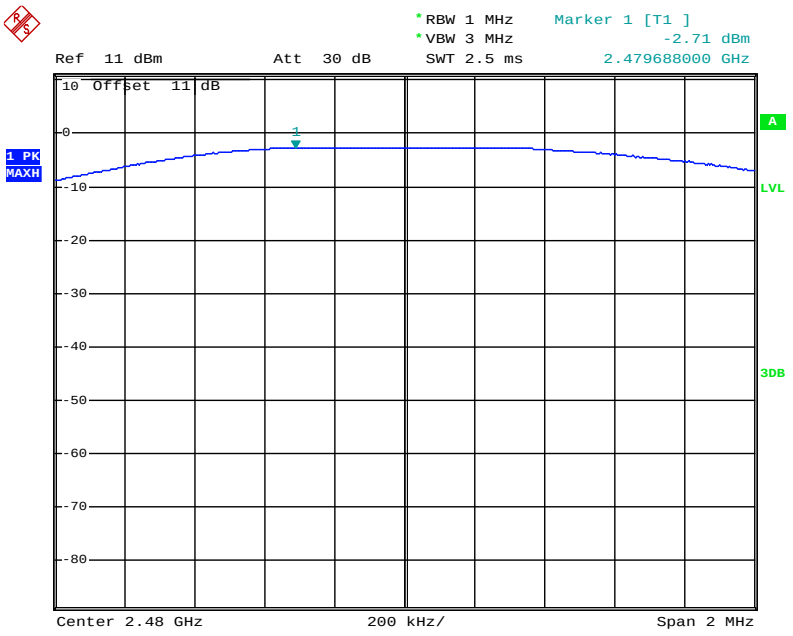


channel 19



Date: 23.NOV.2017 13:40:36

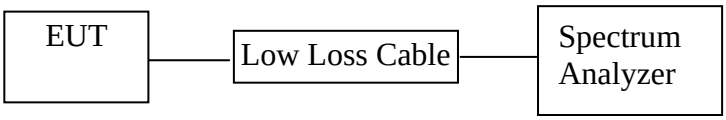
channel 39



Date: 23.NOV.2017 13:42:27

8. POWER SPECTRAL DENSITY MEASUREMENT

8.1.Block Diagram of Test Setup



(EUT: YUNMAI FIT HR)

8.2.The Requirement For Section 15.247(e)

Section 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.

8.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4.Operating Condition of EUT

8.4.1.Setup the EUT and simulator as shown as Section 8.1.

8.4.2.Turn on the power of all equipment.

8.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

8.5.Test Procedure

8.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2.Measurement Procedure PKPSD:

8.5.3.This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3kHz) and repeat.

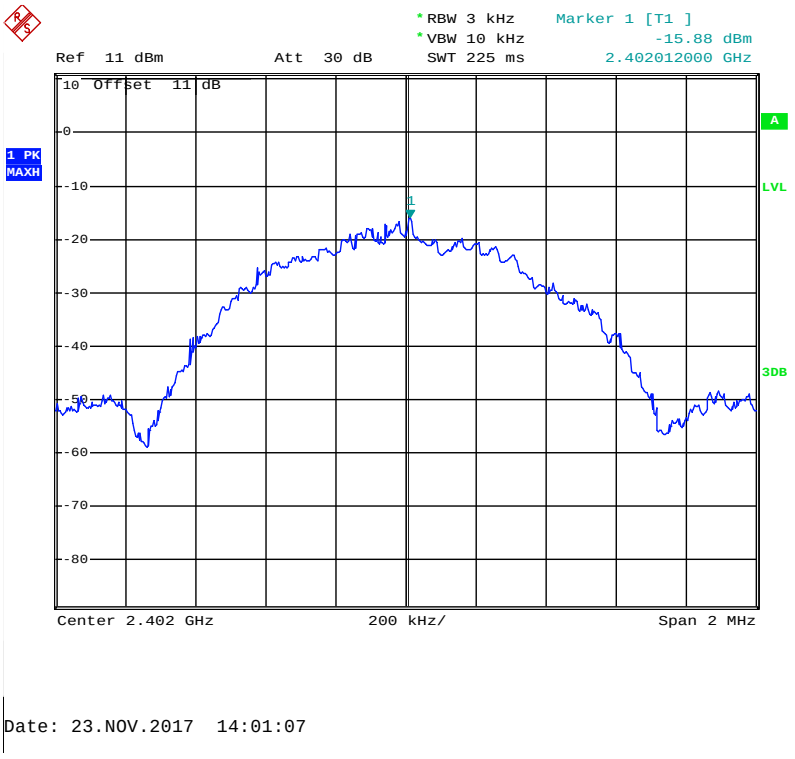
8.5.4.Measurement the maximum power spectral density.

8.6.Test Result

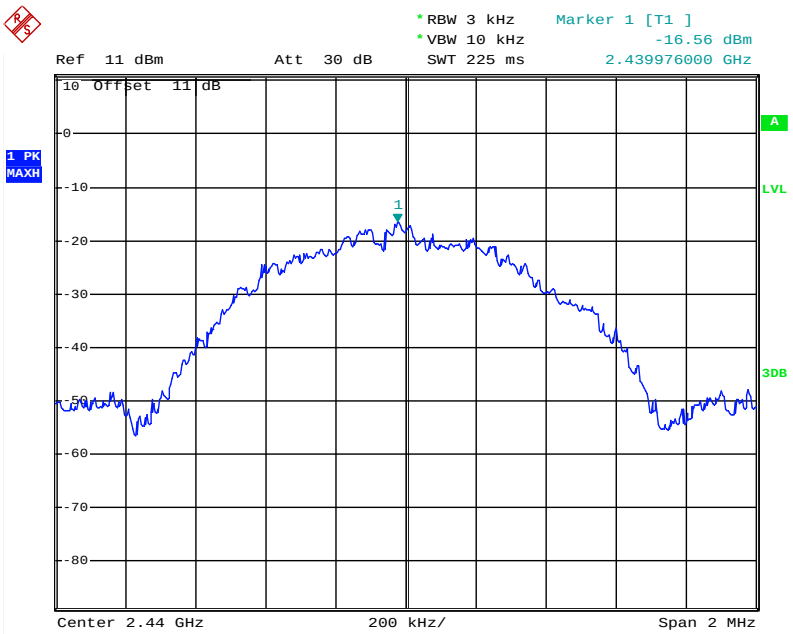
CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-15.88	8	PASS
19	2440	-16.56	8	PASS
39	2480	-16.84	8	PASS

The spectrum analyzer plots are attached as below.

channel 0

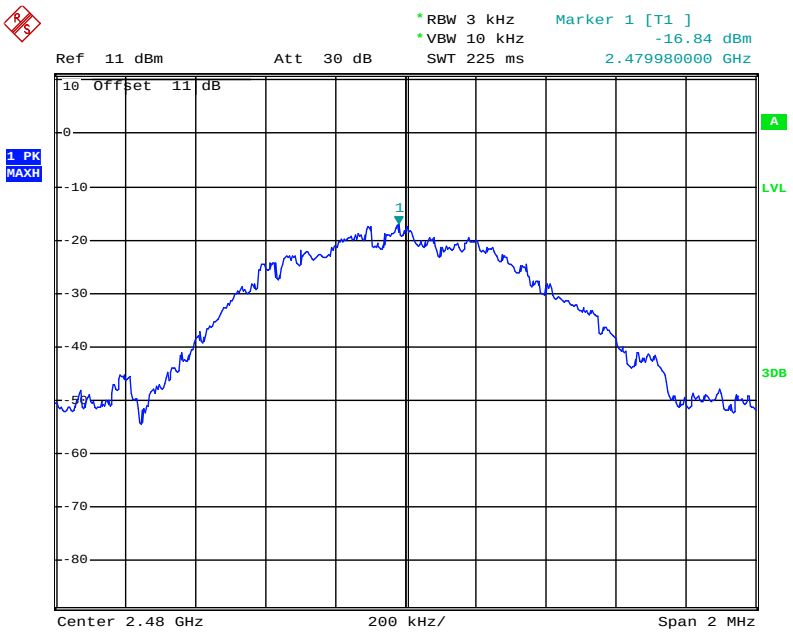


channel 19



Date: 23.NOV.2017 13:59:44

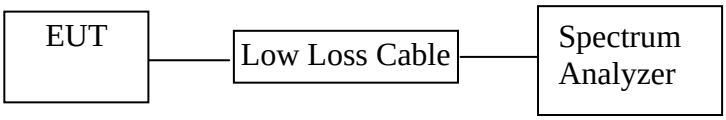
channel 39



Date: 23.NOV.2017 13:58:40

9. BAND EDGE COMPLIANCE TEST

9.1.Block Diagram of Test Setup



(EUT: YUNMAI FIT HR)

9.2.The Requirement For Section 15.247(d)

Section 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, 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 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).

9.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.Operating Condition of EUT

9.4.1.Setup the EUT and simulator as shown as Section 9.1.

9.4.2.Turn on the power of all equipment.

9.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

9.5.Test Procedure

Conducted Band Edge:

9.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

9.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

9.5.3. Radiate Band Edge:

9.5.4.The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

9.5.5.The turntable was rotated for 360 degrees to determine the position of maximum emission level.

9.5.6.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

9.5.7.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

9.5.8.RBW=1MHz, VBW=1MHz

9.5.9.The band edges was measured and recorded.

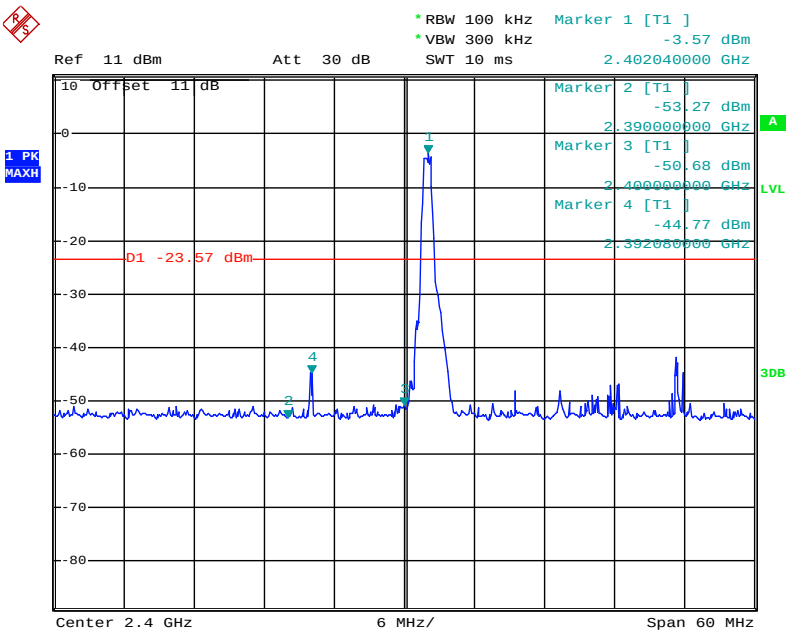
9.6.Test Result

Pass.

Conducted Band Edge Result

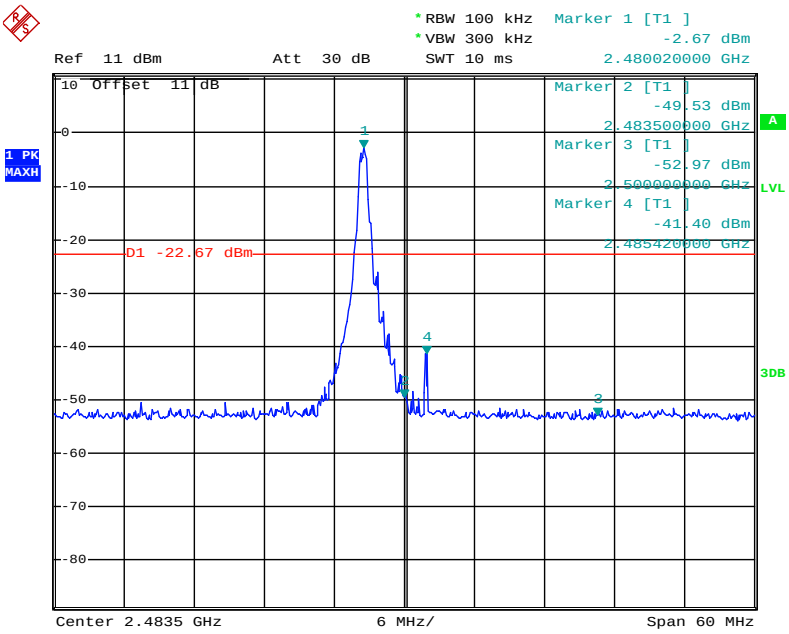
Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.402GHz	47.11	20
39	2.480GHz	46.86	20

channel 0



Date: 23.NOV.2017 14:06:49

channel 39



Date: 23.NOV.2017 14:14:50

Radiated Band Edge Result

ACCURATE TECHNOLOGY CO., LTD.
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Science & Industry Park,Nanshan Shenzhen,P.R.China
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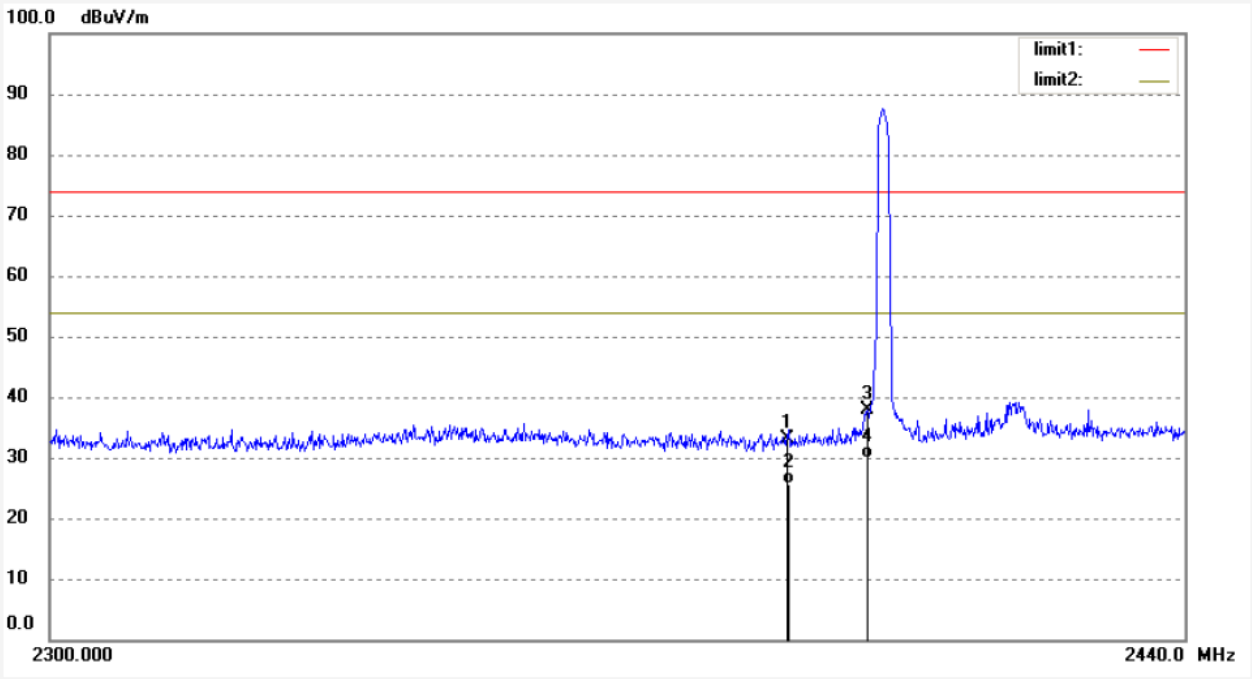
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2017 #1136	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/48/58
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2402MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	39.40	-6.32	33.08	74.00	-40.92	peak	150	106	
2	2390.000	31.87	-6.32	25.55	54.00	-28.45	AVG	150	124	
3	2400.000	44.11	-6.27	37.84	74.00	-36.16	peak	150	263	
4	2400.000	36.11	-6.27	29.84	54.00	-24.16	AVG	150	199	

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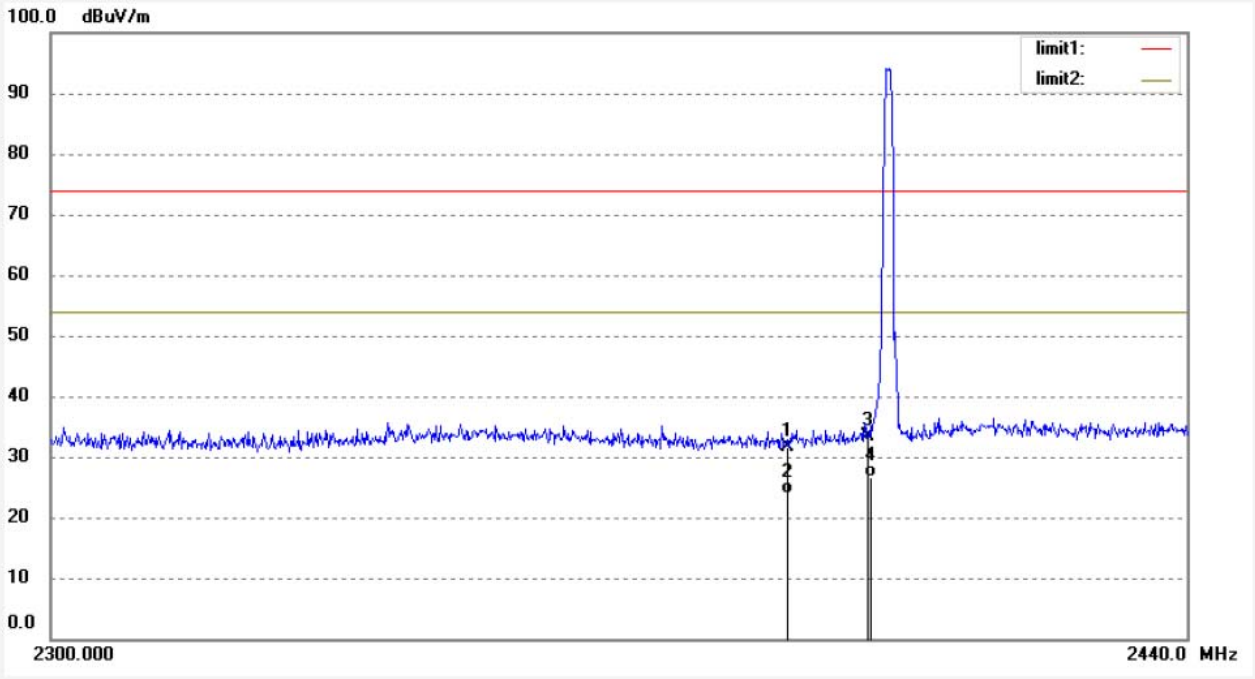
Fax:+86-0755-26503396

Job No.: star2017 #1135
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: YUNMAI FIT HR
Mode: TX 2402MHz
Model: W1701
Manufacturer: YUNMAI

Polarization: Vertical
Power Source: DC 3.8V
Date: 17/11/24/
Time: 9/46/57
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	37.98	-6.32	31.66	74.00	-42.34	peak	150	302	
2	2390.000	30.14	-6.32	23.82	54.00	-30.18	AVG	150	275	
3	2400.000	39.54	-6.27	33.27	74.00	-40.73	peak	150	258	
4	2400.000	32.93	-6.27	26.66	54.00	-27.34	AVG	150	132	

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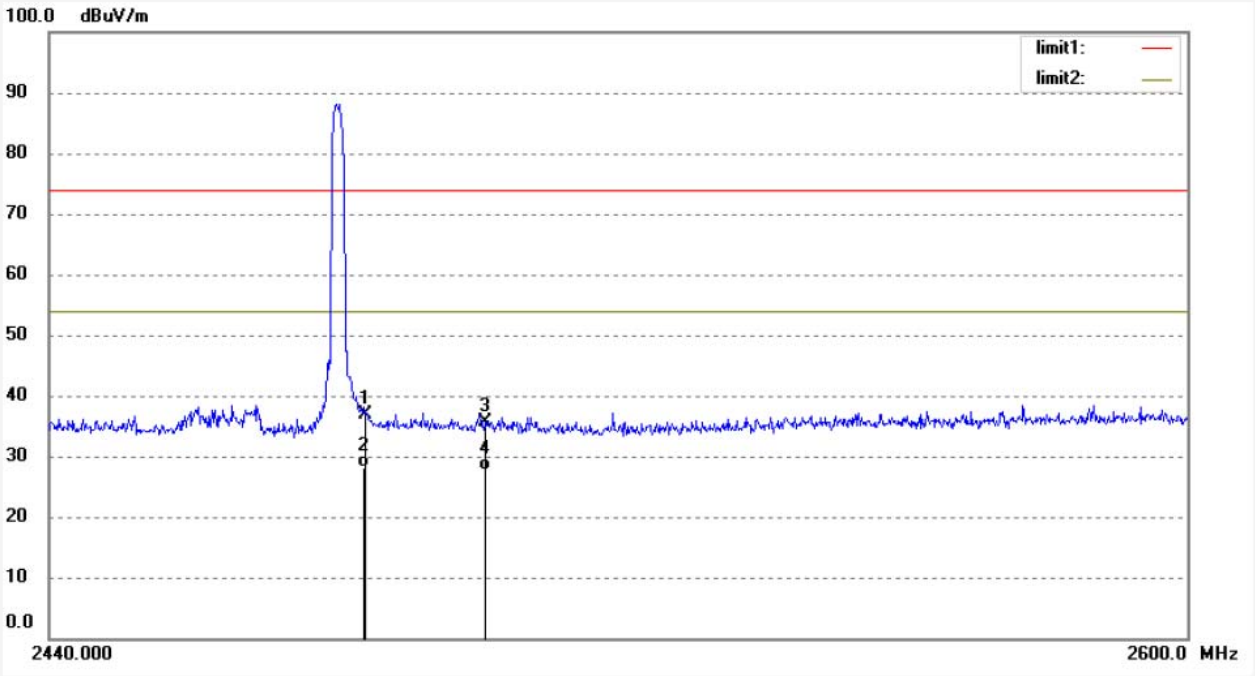
Job No.: star2017 #1137
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: YUNMAI FIT HR
Mode: TX 2480MHz
Model: W1701
Manufacturer: YUNMAI

Polarization: Horizontal
Power Source: DC 3.8V
Date: 17/11/24/
Time: 9/56/06
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	42.73	-5.89	36.84	74.00	-37.16	peak	200	248	
2	2483.500	34.00	-5.89	28.11	54.00	-25.89	AVG	200	181	
3	2500.000	41.48	-5.81	35.67	74.00	-38.33	peak	200	111	
4	2500.000	33.48	-5.81	27.67	54.00	-26.33	AVG	200	97	

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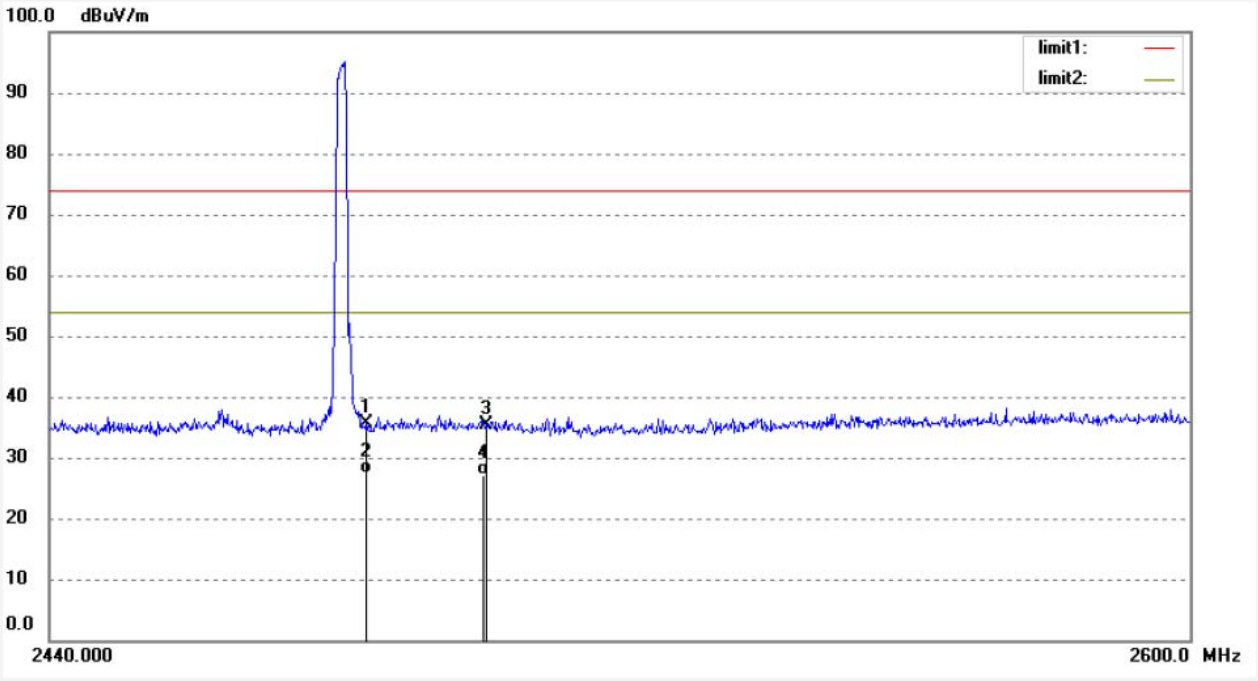
Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2017 #1138	Polarization: Vertical
Standard: FCC PK	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/59/03
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2480MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	41.64	-5.89	35.75	74.00	-38.25	peak	150	224	
2	2483.500	33.24	-5.89	27.35	54.00	-26.65	AVG	150	278	
3	2500.000	41.17	-5.81	35.36	74.00	-38.64	peak	150	206	
4	2500.000	32.94	-5.81	27.13	54.00	-26.87	AVG	150	199	

Note:

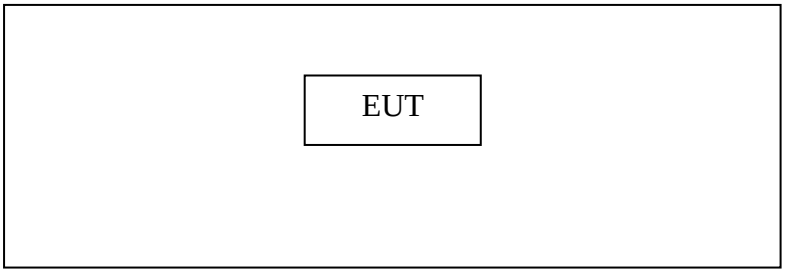
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

10.RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

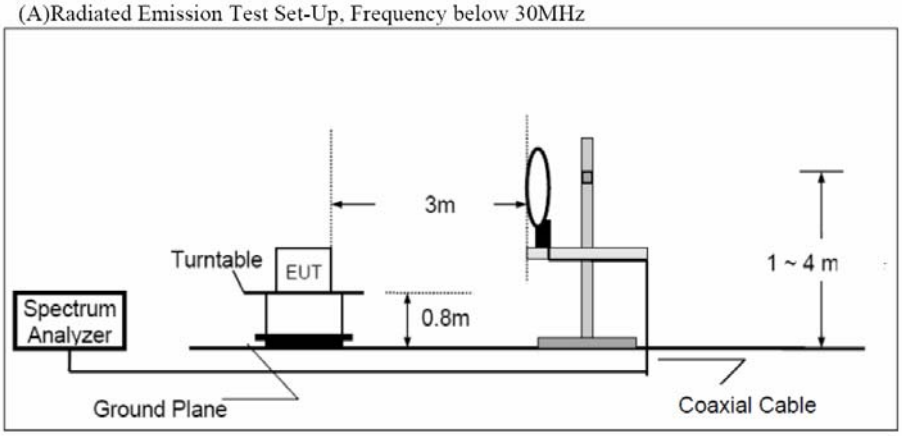


Setup: Transmitting mode

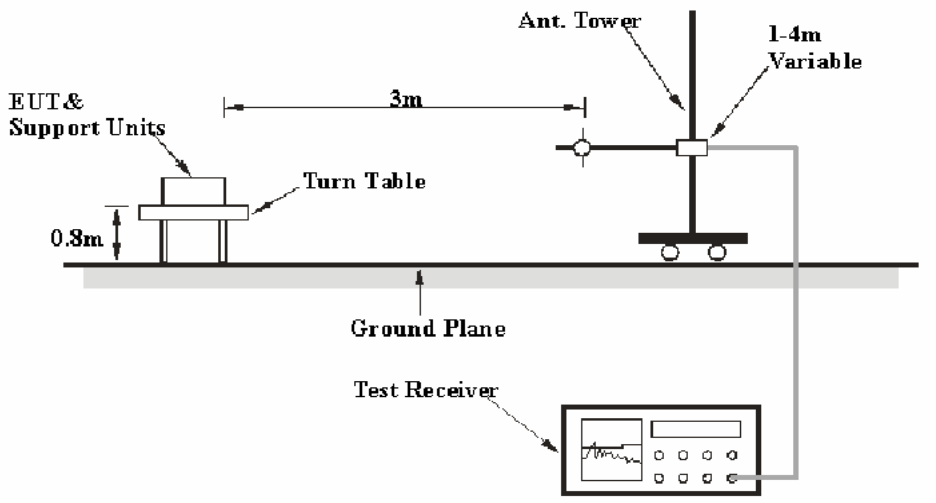
(EUT: YUNMAI FIT HR)

10.1.2.Semi-Anechoic Chamber Test Setup Diagram

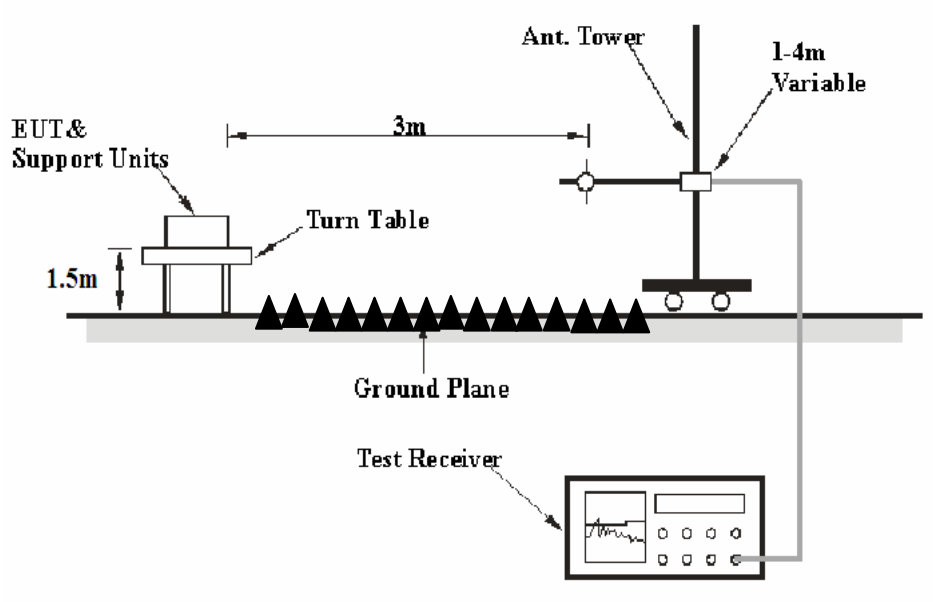
(A)Radiated Emission Test Set-Up, Frequency below 30MHz



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



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



10.2.The Limit For Section 15.247(d)

Section 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, 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 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).

10.3. Restricted bands of operation

10.3.1. FCC Part 15.205 Restricted bands of operation

(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
[2]Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5. Operating Condition of EUT

10.5.1. Setup the EUT and simulator as shown as Section 10.1.

10.5.2. Turn on the power of all equipment.

10.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

10.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 26.5GHz is checked.
The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading.

10.7.Data Sample

Frequency (MHz)	Reading (dBμv)	Factor (dB/m)	Result (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Remark
X.XX	28.66	-15.19	13.47	40.0	-26.53	QP

Frequency(MHz) = Emission frequency in MHz
Reading(dBμv) = Uncorrected Analyzer/Receiver reading
Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain
Result(dBμv/m) = Reading(dBμv) + Factor(dB/m)
Limit (dBμv/m) = Limit stated in standard
Margin (dB) = Result(dBμv/m) - Limit (dBμv/m)
QP = Quasi-peak Reading

Calculation Formula:
Margin(dB) = Result (dBμV/m)–Limit(dBμV/m)
Result(dBμV/m)= Reading(dBμV)+ Factor(dB/m)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

10.8.The Field Strength of Radiation Emission Measurement Results

PASS.

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

3. The radiation emissions from 9kHz-30MHz and 18-26.5GHz are not reported, because the test values lower than the limits of 20dB.

Below 1GHz

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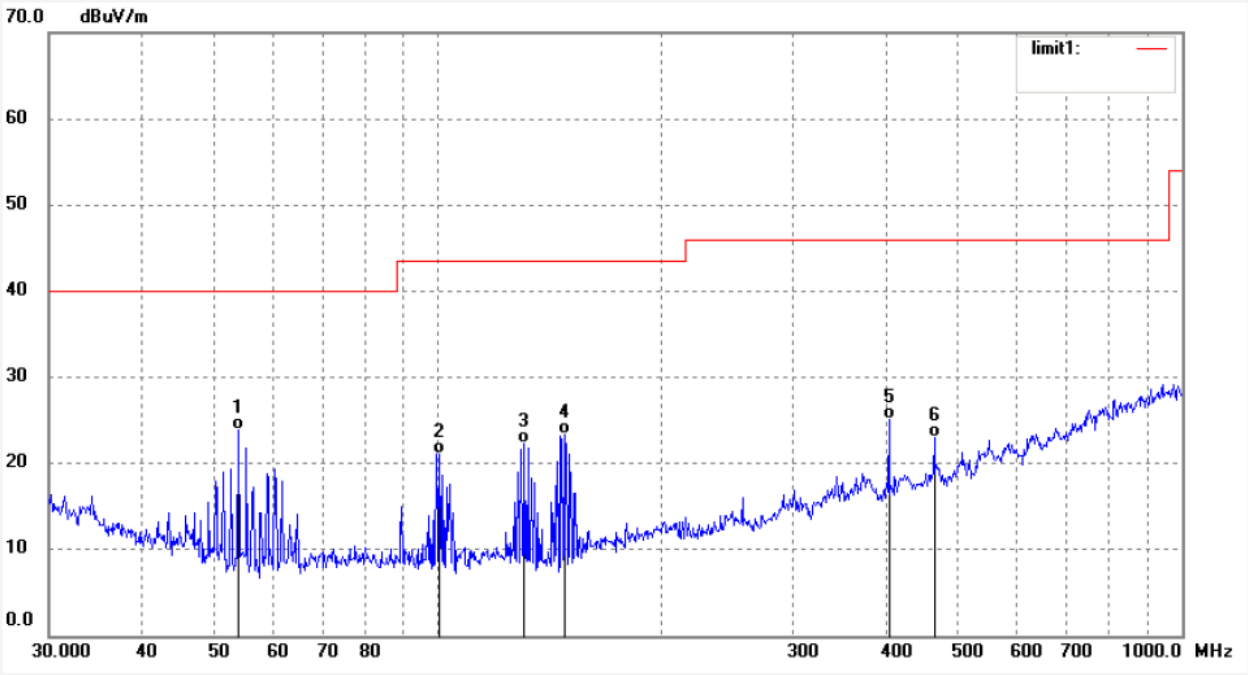
Fax:+86-0755-26503396

Job No.: star2017 #1123	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/03/02
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2402MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	53.9450	50.71	-26.84	23.87	40.00	-16.13	QP	200	118	
2	100.4711	49.08	-28.05	21.03	43.50	-22.47	QP	200	134	
3	130.7632	50.13	-27.73	22.40	43.50	-21.10	QP	200	98	
4	147.8745	51.42	-28.05	23.37	43.50	-20.13	QP	200	129	
5	403.9334	43.31	-18.23	25.08	46.00	-20.92	QP	200	200	
6	464.8867	39.78	-16.83	22.95	46.00	-23.05	QP	200	207	

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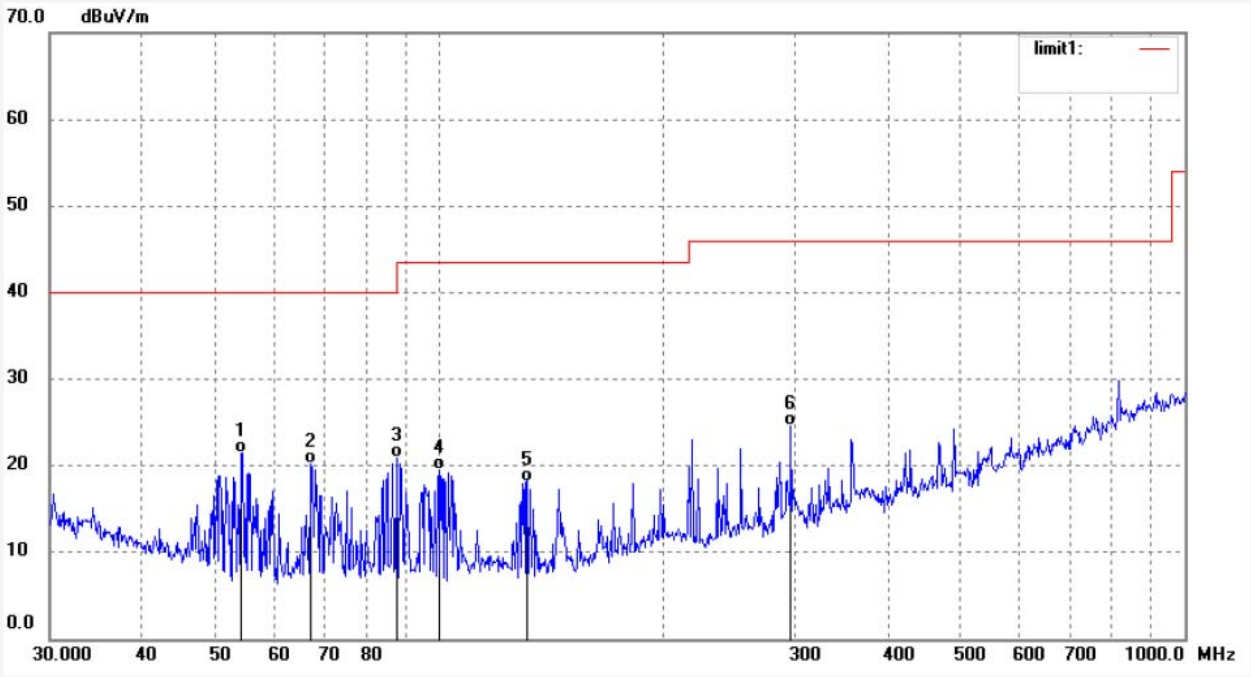
Job No.: star2017 #1124
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: YUNMAI FIT HR
Mode: TX 2402MHz
Model: W1701
Manufacturer: YUNMAI

Polarization: Vertical
Power Source: DC 3.8V
Date: 17/11/24/
Time: 9/03/53
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	54.1349	48.40	-26.88	21.52	40.00	-18.48	QP	100	76	
2	67.3109	47.58	-27.39	20.19	40.00	-19.81	QP	100	171	
3	87.9136	48.31	-27.43	20.88	40.00	-19.12	QP	100	326	
4	99.7676	47.51	-28.00	19.51	43.50	-23.99	QP	100	274	
5	131.2235	45.94	-27.74	18.20	43.50	-25.30	QP	100	205	
6	296.5023	45.98	-21.36	24.62	46.00	-21.38	QP	100	199	

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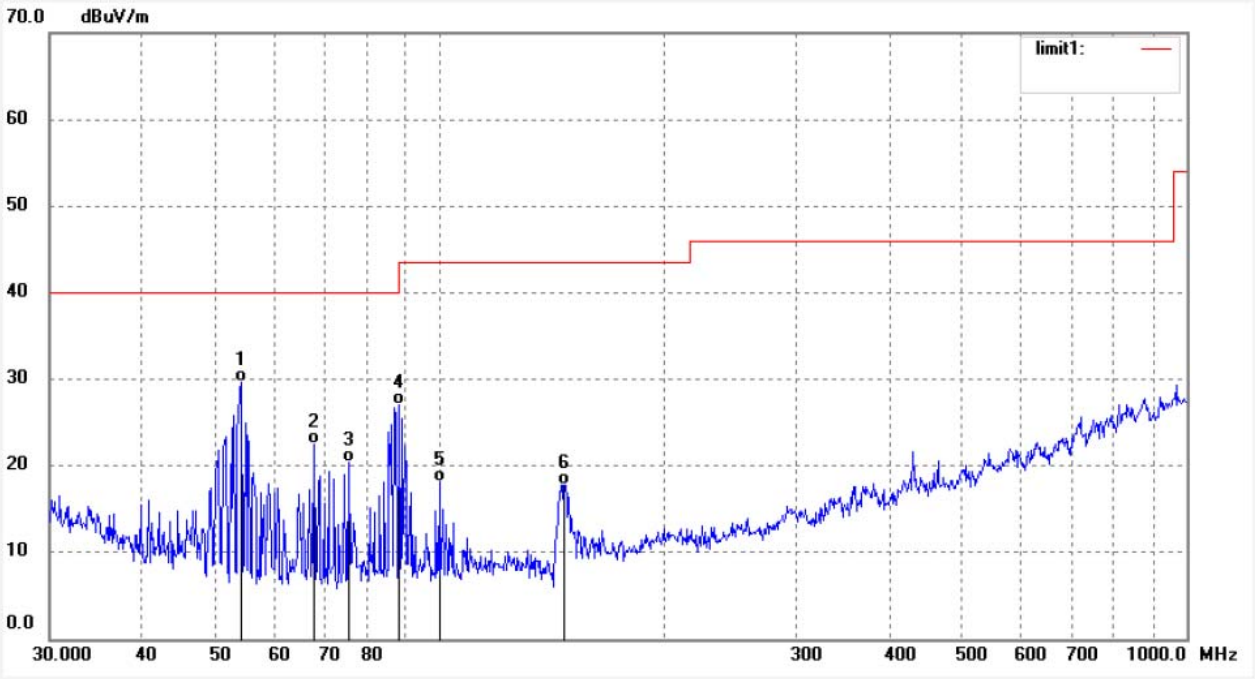
Job No.: star2017 #1126	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/05/32
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2440MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	54.1349	56.50	-26.88	29.62	40.00	-10.38	QP	200	142	
2	67.7856	49.96	-27.40	22.56	40.00	-17.44	QP	200	155	
3	75.5858	48.08	-27.67	20.41	40.00	-19.59	QP	200	177	
4	88.2229	54.53	-27.44	27.09	43.50	-16.41	QP	200	296	
5	99.7676	46.13	-28.00	18.13	43.50	-25.37	QP	200	344	
6	146.8392	45.88	-28.06	17.82	43.50	-25.68	QP	200	302	

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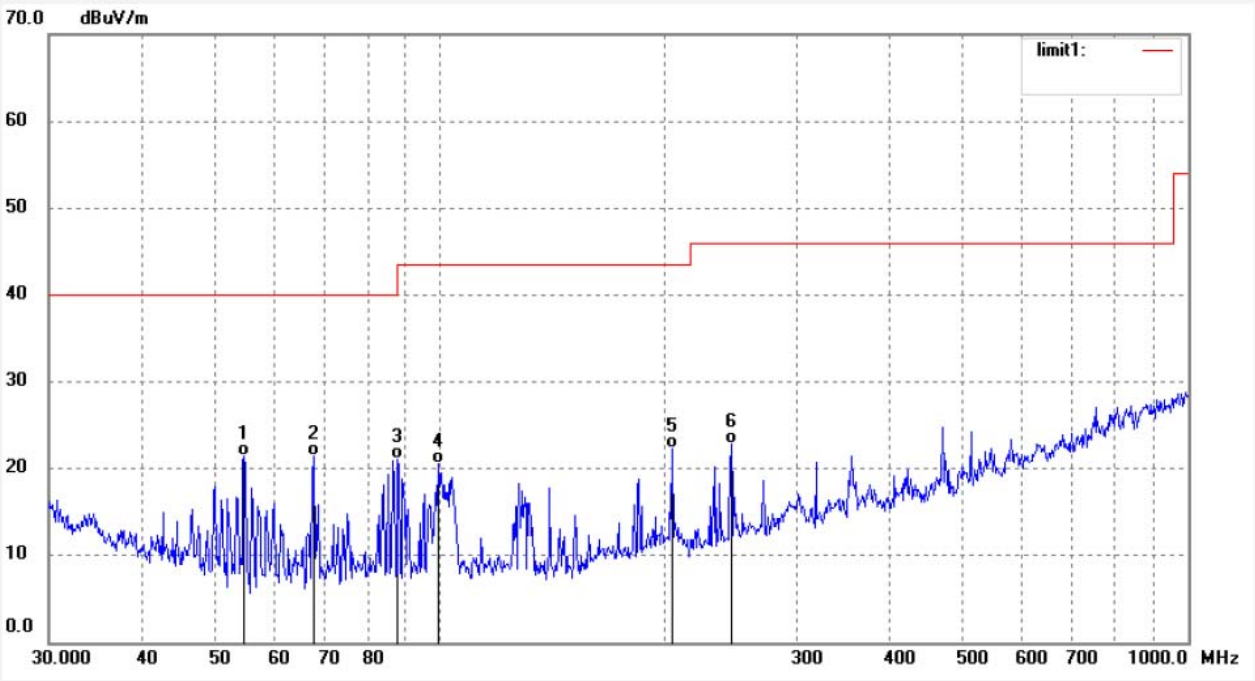
Job No.: star2017 #1125
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: YUNMAI FIT HR
Mode: TX 2440MHz
Model: W1701
Manufacturer: YUNMAI

Polarization: Vertical
Power Source: DC 3.8V
Date: 17/11/24/
Time: 9/04/43
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	54.7085	48.39	-26.96	21.43	40.00	-18.57	QP	100	175	
2	67.7856	48.84	-27.40	21.44	40.00	-18.56	QP	100	233	
3	87.9136	48.48	-27.43	21.05	40.00	-18.95	QP	100	208	
4	99.4176	48.47	-27.97	20.50	43.50	-23.00	QP	100	214	
5	204.3052	46.55	-24.18	22.37	43.50	-21.13	QP	100	193	
6	245.2606	46.55	-23.67	22.88	46.00	-23.12	QP	100	200	

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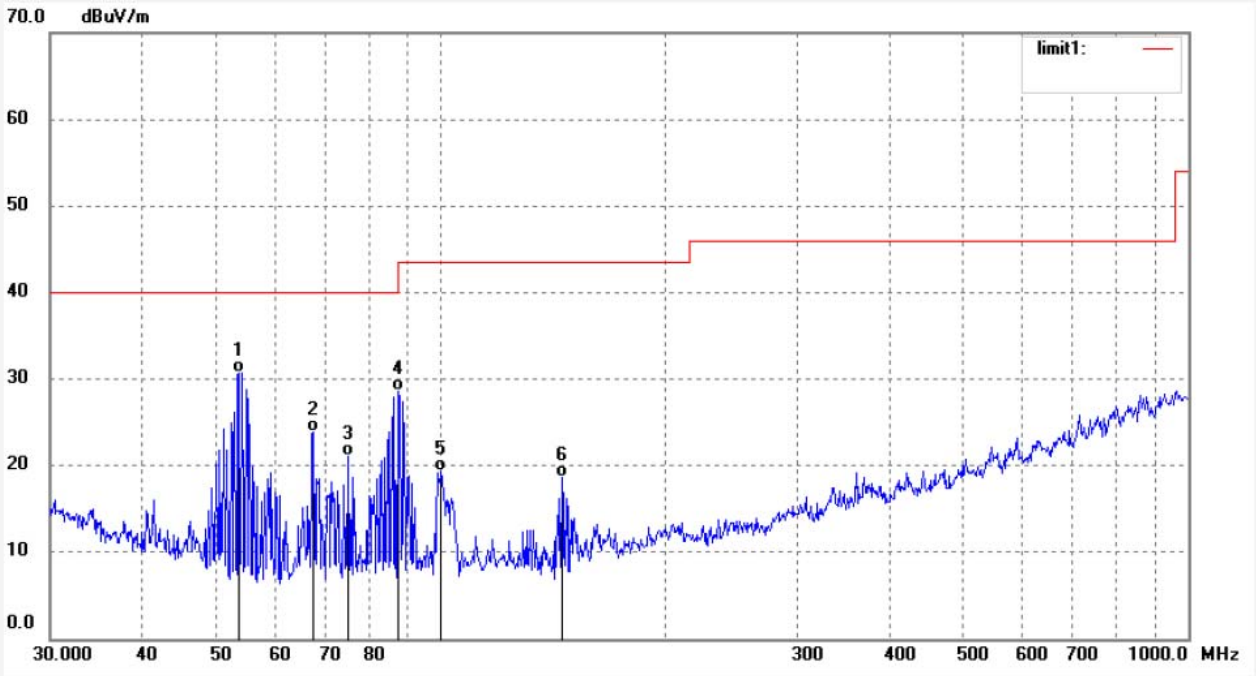
Job No.: star2017 #1127
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: YUNMAI FIT HR
Mode: TX 2480MHz
Model: W1701
Manufacturer: YUNMAI

Polarization: Horizontal
Power Source: DC 3.8V
Date: 17/11/24/
Time: 9/06/50
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	53.7559	57.56	-26.81	30.75	40.00	-9.25	QP	200	68	
2	67.5478	51.24	-27.39	23.85	40.00	-16.15	QP	200	112	
3	75.3208	48.85	-27.68	21.17	40.00	-18.83	QP	200	47	
4	87.9136	56.01	-27.43	28.58	40.00	-11.42	QP	200	272	
5	100.1188	47.38	-28.04	19.34	43.50	-24.16	QP	200	269	
6	145.2995	46.73	-28.04	18.69	43.50	-24.81	QP	200	300	

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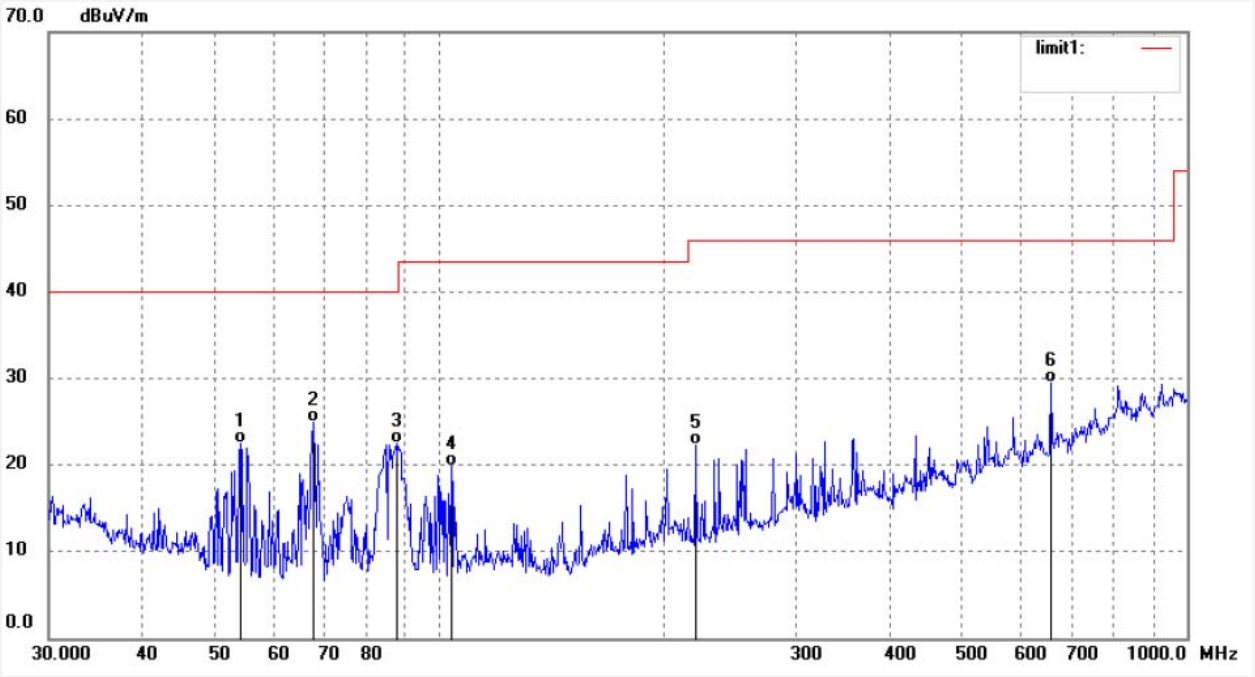
Job No.: star2017 #1128	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/08/13
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2480MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	54.1349	49.33	-26.88	22.45	40.00	-17.55	QP	100	144	
2	67.7856	52.30	-27.40	24.90	40.00	-15.10	QP	100	198	
3	87.6051	49.85	-27.44	22.41	40.00	-17.59	QP	100	201	
4	103.6989	47.89	-28.11	19.78	43.50	-23.72	QP	100	211	
5	219.9499	46.41	-24.02	22.39	46.00	-23.61	QP	100	178	
6	658.2854	41.87	-12.44	29.43	46.00	-16.57	QP	100	159	

Above 1GHz

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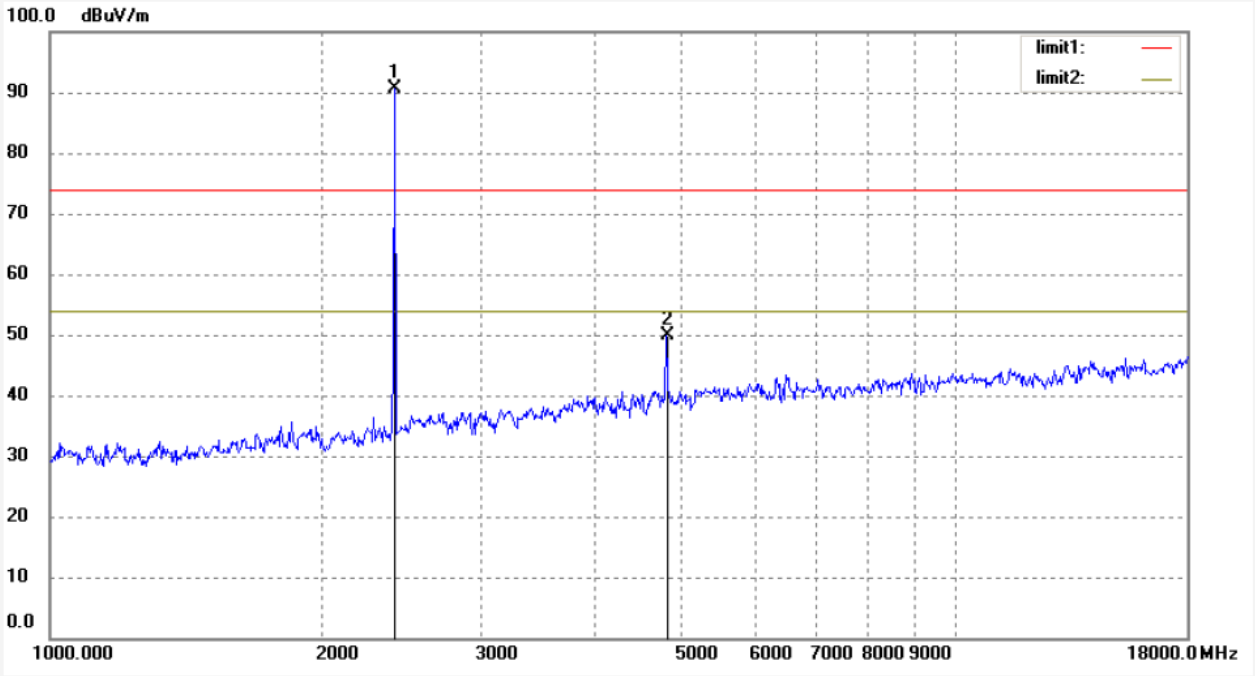
Job No.: star2017 #1130	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/14/47
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2402MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.099	96.92	-6.26	90.66			peak	200	107	
2	4804.173	48.97	1.02	49.99	74.00	-24.01	peak	200	123	

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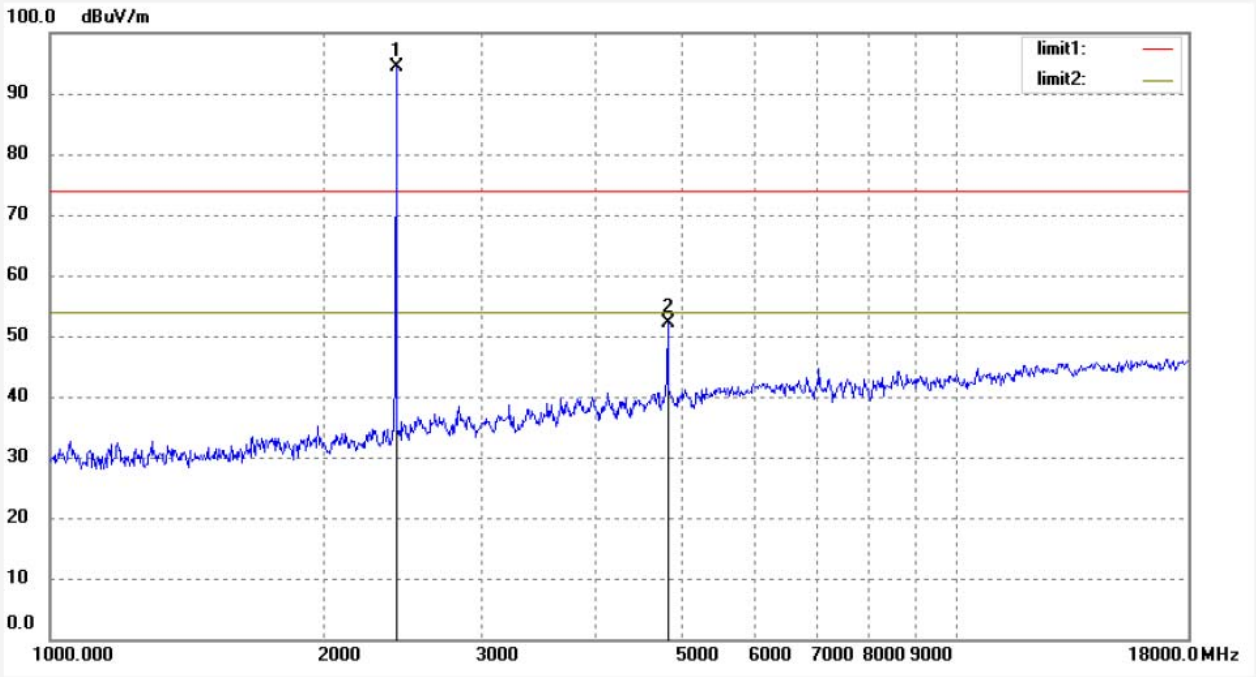
Job No.: star2017 #1129	Polarization: Vertical
Standard: FCC PK	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/13/42
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2402MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.010	100.55	-6.26	94.29			peak	150	88	
2	4804.328	51.08	1.02	52.10	74.00	-21.90	peak	150	120	

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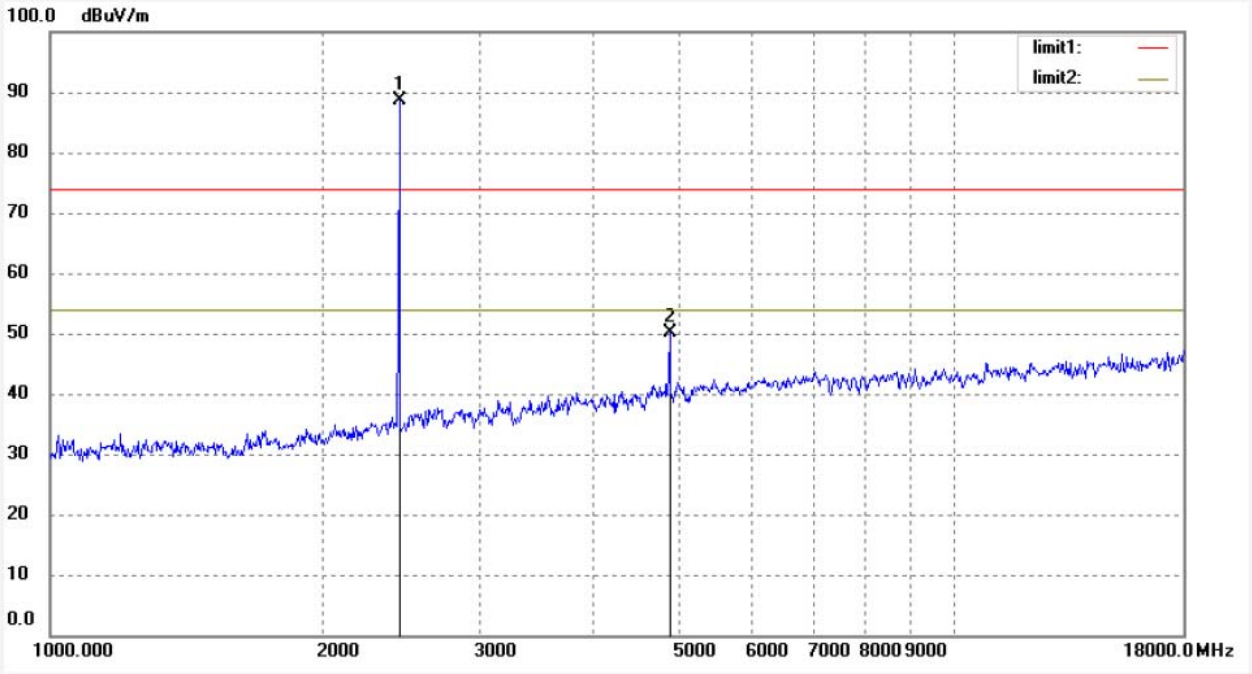
Job No.: star2017 #1131
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: YUNMAI FIT HR
Mode: TX 2440MHz
Model: W1701
Manufacturer: YUNMAI

Polarization: Horizontal
Power Source: DC 3.8V
Date: 17/11/24/
Time: 9/16/25
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.107	94.80	-6.09	88.71			peak	200	268	
2	4880.057	48.93	1.27	50.20	74.00	-23.80	peak	200	319	

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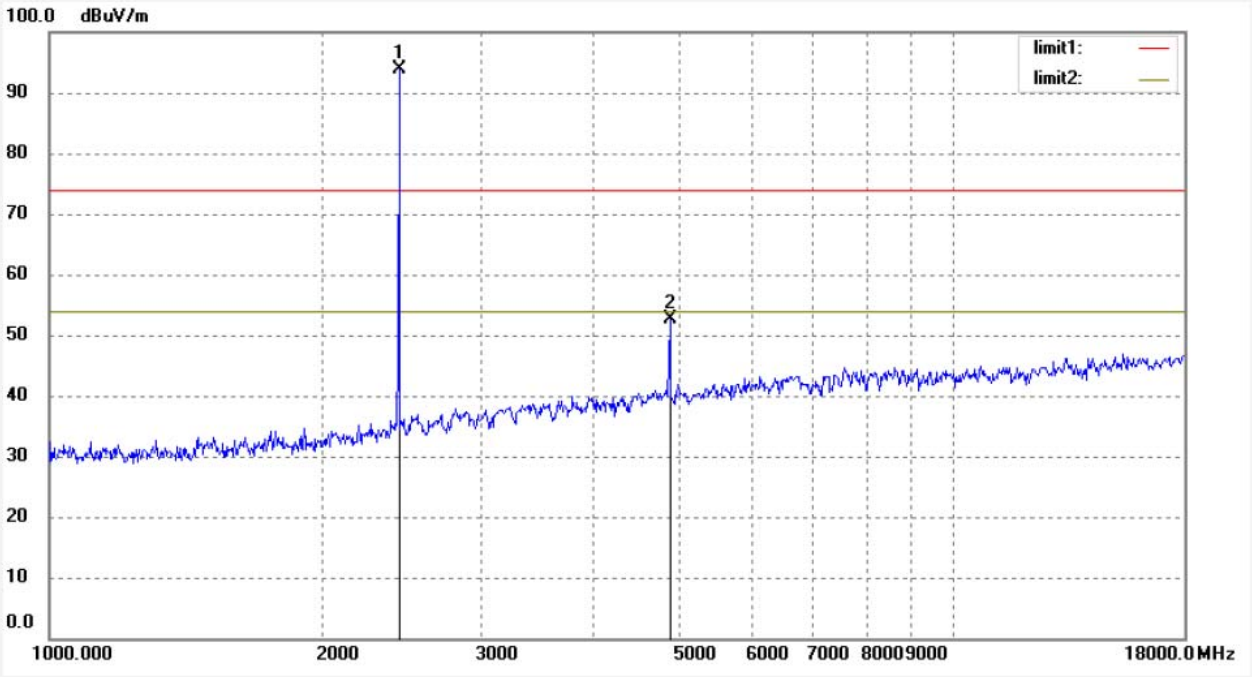
Job No.: star2017 #1132
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: YUNMAI FIT HR
Mode: TX 2440MHz
Model: W1701
Manufacturer: YUNMAI

Polarization: Vertical
Power Source: DC 3.8V
Date: 17/11/24/
Time: 9/18/41
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.007	100.04	-6.10	93.94			peak	150	177	
2	4880.557	51.35	1.25	52.60	74.00	-21.40	peak	150	200	

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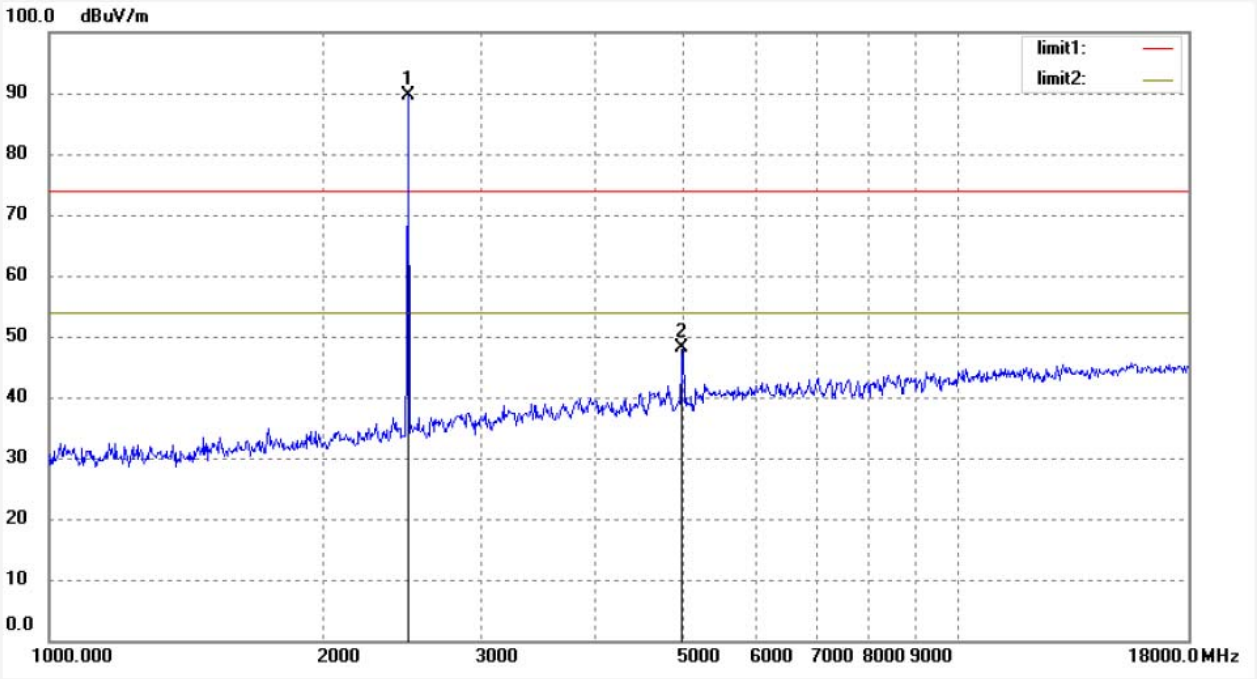
Job No.: star2017 #1134	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/21/18
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2480MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.167	95.44	-5.90	89.54			peak	200	277	
2	4960.100	46.33	1.70	48.03	74.00	-25.97	peak	200	351	

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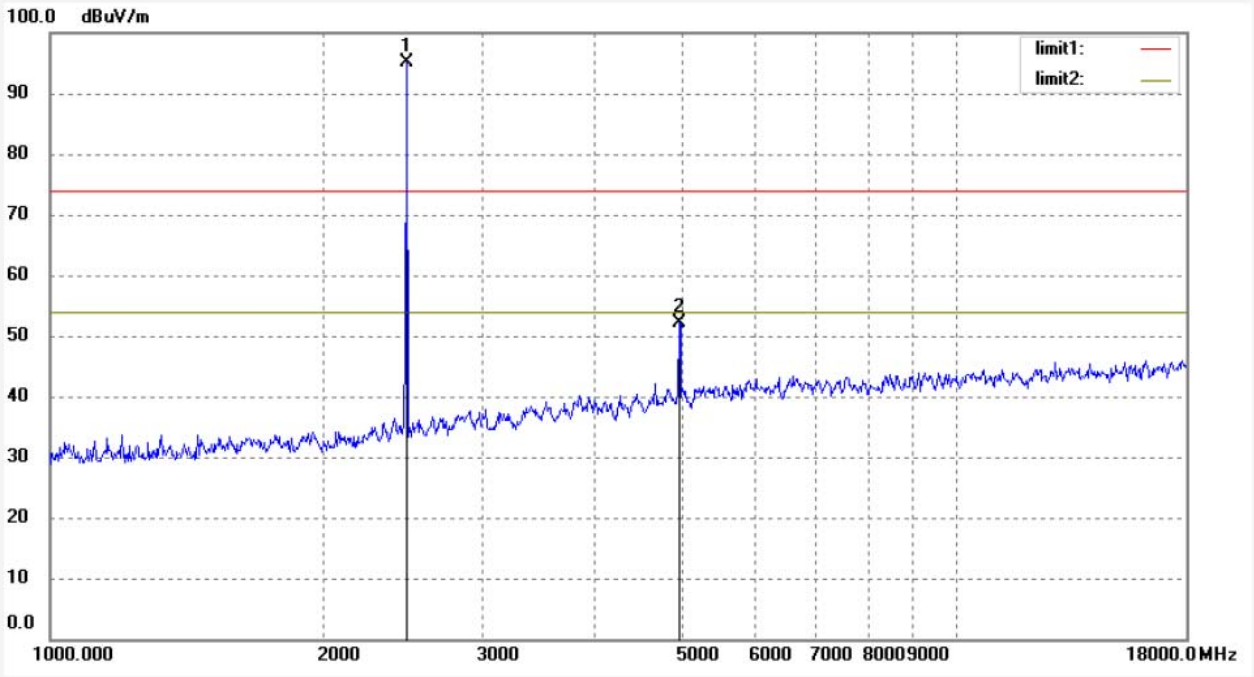
Job No.: star2017 #1133	Polarization: Vertical
Standard: FCC PK	Power Source: DC 3.8V
Test item: Radiation Test	Date: 17/11/24/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/20/03
EUT: YUNMAI FIT HR	Engineer Signature: star
Mode: TX 2480MHz	Distance: 3m
Model: W1701	
Manufacturer: YUNMAI	

Note: Report No.:ATE20172361



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.038	101.04	-5.90	95.14			peak	150	198	
2	4960.146	50.52	1.70	52.22	74.00	-21.78	peak	150	336	

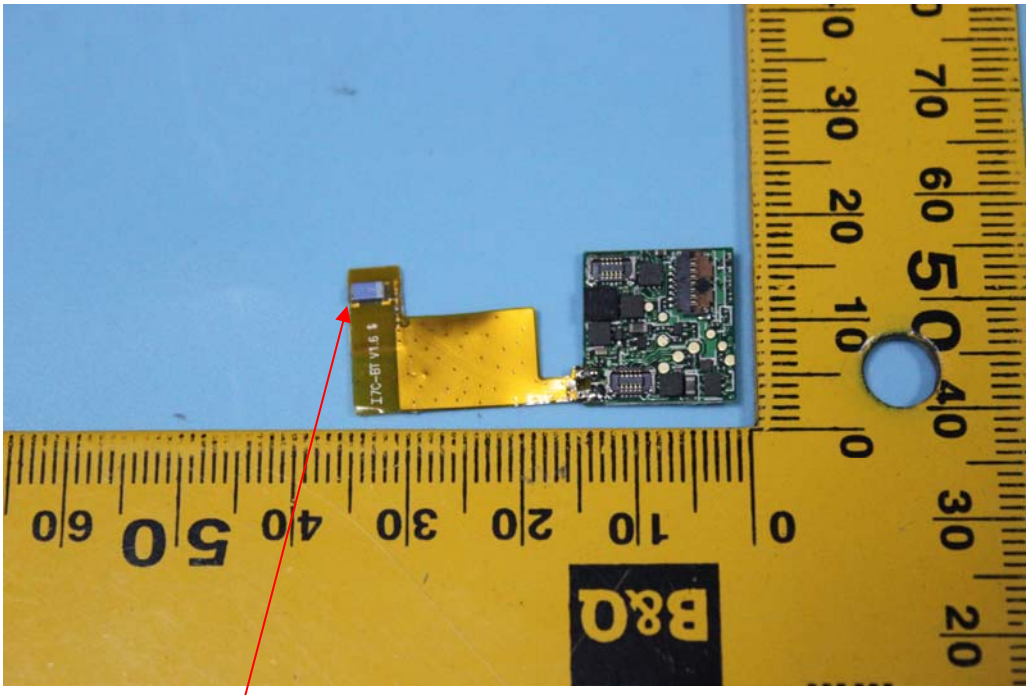
11. ANTENNA REQUIREMENT

11.1. The Requirement

According to Section 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.

11.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 2 dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



******* End of Test Report *******