




<b>Prüfbericht-Nr.:</b> Test Report No.:	<b>50070340 001</b>	<b>Auftrags-Nr.:</b> Order No.:	<b>164081493</b>	Seite 1 von 21 Page 1 of 21
<b>Kunden-Referenz-Nr.:</b> Client Reference No.:	<b>653930</b>	<b>Auftragsdatum:</b> Order date:	<b>12.12.2016</b>	
<b>Auftraggeber:</b> Client:	<b>MINDPAX s.r.o.</b> Oldrichova 106/49, Prague 12800, Czech Republic			
<b>Prüfgegenstand:</b> Test item:	Activity tracker			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type No.:	MindG01 (MindG)			
<b>Auftrags-Inhalt:</b> Order content:	FCC Certification			
<b>Prüfgrundlage:</b> Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 v06			
<b>Wareneingangsdatum:</b> Date of receipt:	12.12.2016			
<b>Prüfmuster-Nr.:</b> Test sample No.:	A000469880-001 002 003			
<b>Prüfzeitraum:</b> Testing period:	16.12.2016 - 17.12.2016			
<b>Ort der Prüfung:</b> Place of testing:	Shenzhen Accurate Technology Co., Ltd.			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> Test result*:	Pass			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
08.02.2017 Winnie Hou / Senior Project Manager 		15.02.2017 Owen Tian / Technical Certifier 		
<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position	<b>Unterschrift</b> Signature	<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position
			<b>Unterschrift</b> Signature	
<b>Sonstiges / Other:</b> FCC ID: 2AKLGMINDG				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT**

RESULT: Passed

**5.1.2 PEAK OUTPUT POWER**

RESULT: Passed

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**

RESULT: Passed

**5.1.4 -6dB BANDWIDTH**

RESULT: Passed

**5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH**

RESULT: Passed

**5.1.6 SPURIOUS EMISSION**

RESULT: Passed

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## **1. General Remarks**

### **1.1 Complementary Materials**

All attachments are integral parts of this test report. This applies especially to the following appendix:  
Appendix 1: Test Result

## **2. Test Sites**

### **2.1 Test Facilities**

Shenzhen Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051

The tests at the test site have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
<b>Spurious emission and Radiated emission</b>				
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	06-01-2018
Test Receiver	Rohde&Schwarz	ESCS30	100307	06-01-2018
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	09-01-2018
Loop Antenna	Schwarzbeck	FMZB1516	1516131	09-01-2018
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	09-01-2018
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	09-01-2018
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	06-01-2018
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	06-01-2018
<b>Radio Spectrum Test</b>				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	06-01-2018

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are  $\pm 3\text{dB}$ .

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Shenzhen Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is an activity tracker & Anti-lost (wrist band) with Bluetooth low energy wireless technology.

#### 3.2 Ratings and System Details

**Table 2: Rating of EUT**

Kind of Equipment:	Activity tracker
Type Designation:	MindG01
FCC ID	2AKLGMINDG

**Table 3: Technical Specification of EUT**

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Bluetooth Core Version	4.0
Channel separation	2MHz
Extreme Temperature Range	-20°C to +60°C
Operation Voltage	DC 3V via Button Battery
Modulation	GFSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	0.6dBi
RF Output Power	0.00162W (2.09dBm)

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth Transmitting
  - 1. Low channel
  - 2. Middle channel
  - 3. High channel
- B. On, operating
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- |                         |                      |
|-------------------------|----------------------|
| - Bill of Material      | - Circuit Diagram    |
| - PCB Layout            | - Instruction Manual |
| - Photo Document        | - Rating Label       |
| - Technical Description |                      |



## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2014 and ANSI C63.10: 2013.

### 4.3 Special Accessories and Auxiliary Equipment

The EUT was tested with following accessories

Description	Manufacturer	Type	S/N
iPhone 6S plus	Apple	ML6D2 CH/A	C35QJ76JGRWM

### 4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

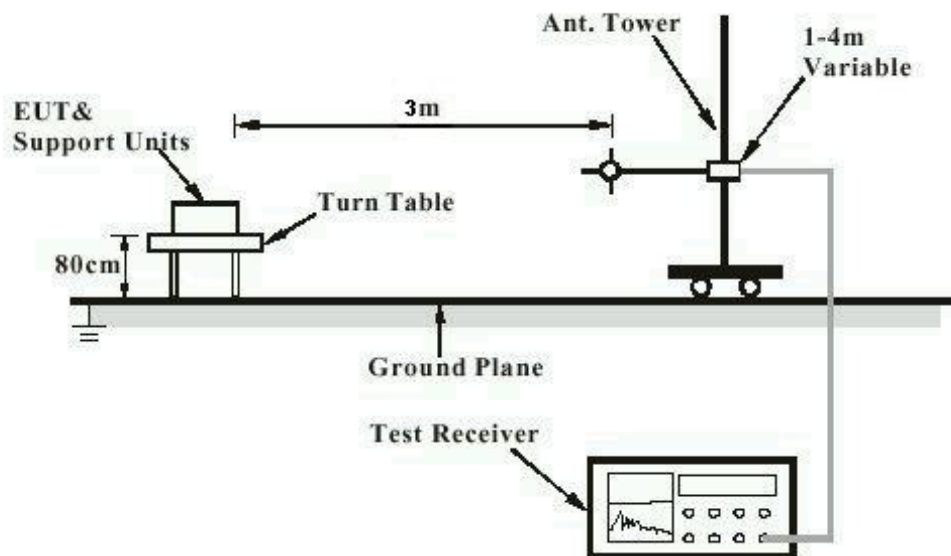
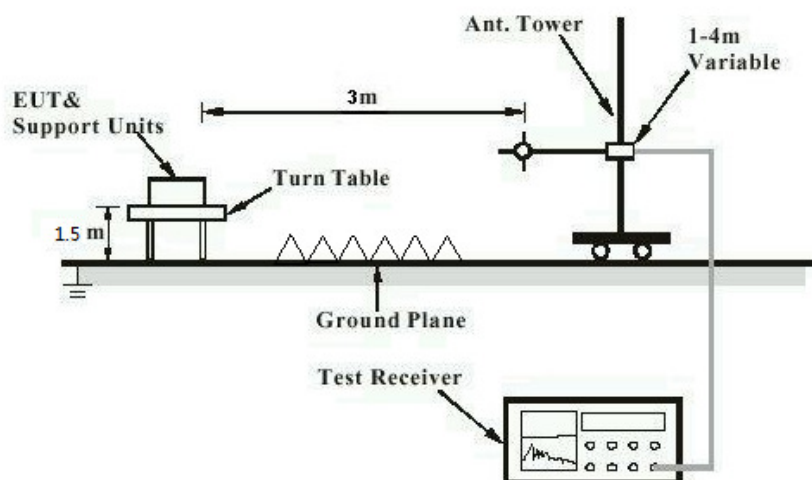
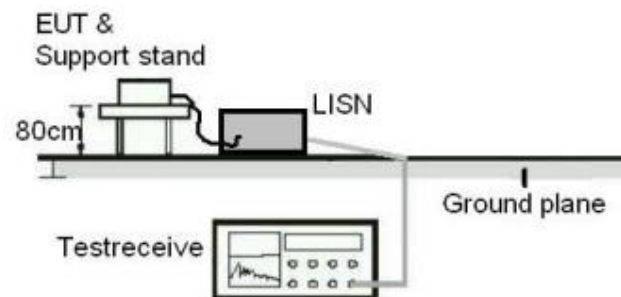


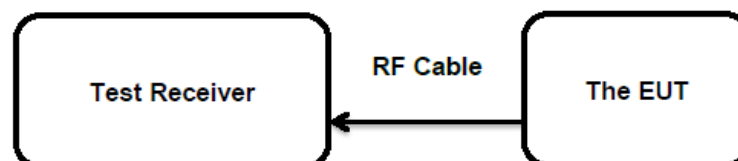
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



### Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



### Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Passed**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0.6dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT photo for details.

## 5.1.2 Peak Output Power

**RESULT:****Passed**

Test date : 2016-12-16  
Test standard : FCC Part 15.247(b)(3)  
Basic standard : ANSI C63.10: 2013  
Limit : 1 Watt  
Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
Operation Mode : A  
Ambient temperature : 25°C  
Relative humidity : 55%  
Atmospheric pressure : 101 kPa

**Table 4: Test result of Peak Output Power**

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	2.09	0.00162	1
Middle Channel	2440	0.78	0.00120	1
High Channel	2480	-0.79	0.00083	1

### 5.1.3 Conducted Power Spectral Density

**RESULT:****Passed**

Test date : 2016-12-16  
Test standard : FCC Part 15.247(e)  
Basic standard : ANSI C63.10: 2013  
Limit : 8dBm/3kHz  
Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
Operation Mode : A  
Ambient temperature : 25°C  
Relative humidity : 55%  
Atmospheric pressure : 101 kPa

**Table 5: Test result of Conducted Power Spectral Density**

Channel	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low Channel	2402	-11.15	8
Middle Channel	2440	-13.10	8
High Channel	2480	-14.16	8

### 5.1.4 -6dB Bandwidth

**RESULT:****Passed**

Date of testing : 2016-12-16  
Test standard : FCC Part 15.247(a)(2)  
Basic standard : ANSI C63.10: 2013  
Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
Operation Mode : A  
Ambient temperature : 25°C  
Relative humidity : 55%  
Atmospheric pressure : 101 kPa

**Table 6: Test result of -6dB Bandwidth**

Channel	Channel Frequency (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	686	500	Pass
Mid Channel	2440	694.6	500	Pass
High Channel	2480	694.7	500	Pass

**5.1.5 Conducted spurious emissions measured in 100kHz  
Bandwidth****RESULT:****Passed**

Date of testing	:	2016-12-16
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.10: 2013
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

**Test setup**

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

All emissions are more than 20dB below fundamental, details refer to Appendix 1.



### 5.1.6 Spurious Emission

**RESULT:****Passed**

Date of testing	:	2016-12-17
Test standard	:	FCC part 15.247(d) FCC Part 15.205
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-Anechoic Chamber

**Test setup**

Test Channel	:	Low/ Middle/ High
Operation mode	:	A
Ambient temperature	:	Refer to Appendix 1
Relative humidity	:	Refer to Appendix 1
Atmospheric pressure	:	Refer to Appendix 1

**Remark:**

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For details refer to Appendix 1.

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**Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz),**

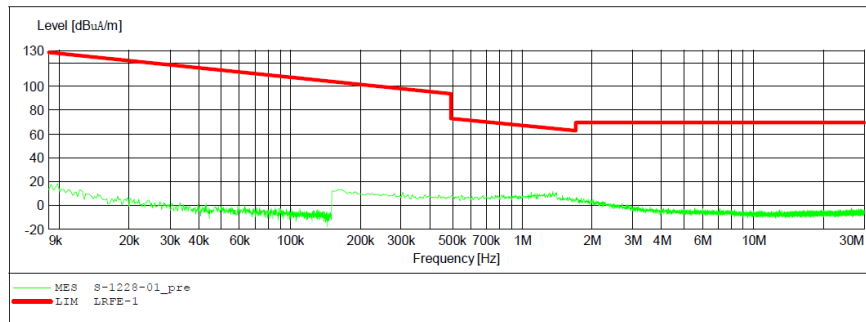
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3m Radiated**

EUT: Smart Band M/N:MindG01  
Manufacturer:  
Operating Condition: TX 2402MHz  
Test Site: 2# Chamber  
Operator: LGWADE  
Test Specification: DC 3V  
Comment: X

**SCAN TABLE: "LFRE Fin"**

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



**Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz)**

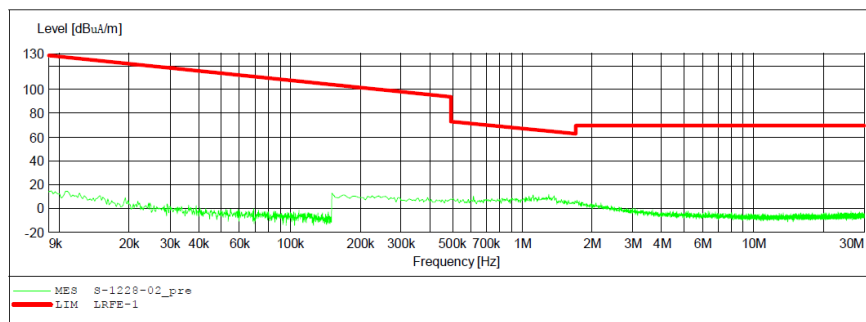
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3m Radiated**

EUT: Smart Band M/N:MindG01  
Manufacturer:  
Operating Condition: TX 2402MHz  
Test Site: 2# Chamber  
Operator: LGWADE  
Test Specification: DC 3V  
Comment: Y

**SCAN TABLE: "LFRE Fin"**

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



**Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

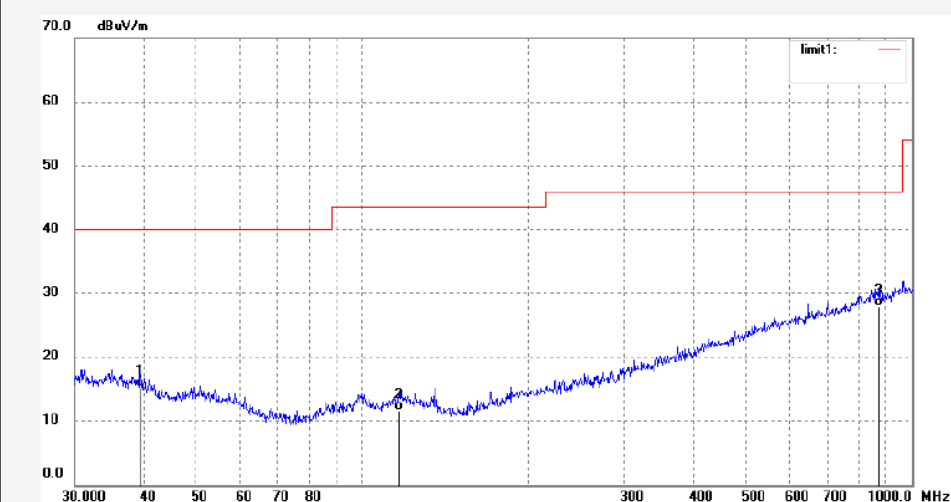
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4761  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 48 %  
EUT: Smart Band  
Mode: TX 2402MHz  
Model: MindG01  
Manufacturer: Mindpax s.r.o.

Polarization: Horizontal  
Power Source: DC 3V  
Date: 16/12/17/  
Time:  
Engineer Signature: LGWADE  
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.4371	26.66	-11.41	15.25	40.00	-24.75	QP			
2	116.5400	24.68	-13.06	11.62	43.50	-31.88	QP			
3	872.1832	25.89	1.94	27.83	46.00	-18.17	QP			

**Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

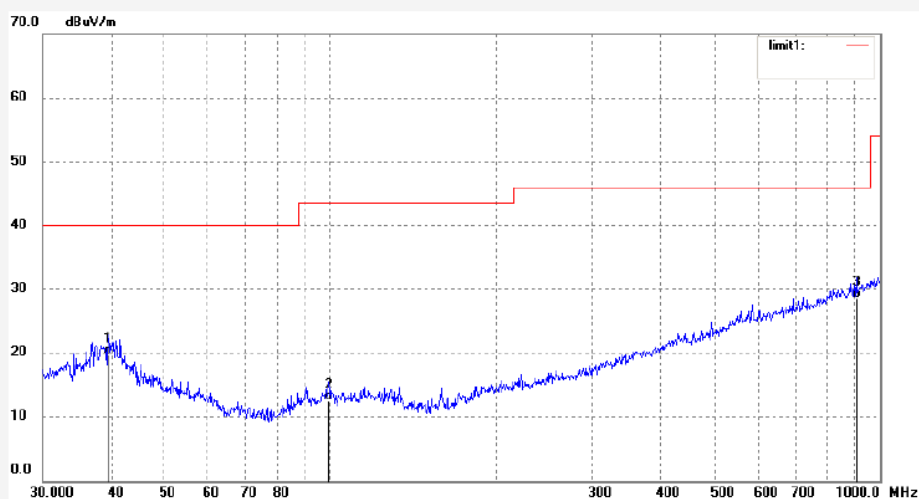
Site: 2# Chamber

Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Igwade #4762  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 48 %  
EUT: Smart Band  
Mode: TX 2402MHz  
Model: MindG01  
Manufacturer: Mindpax s.r.o.

Polarization: Vertical  
Power Source: DC 3V  
Date: 16/12/17/  
Time:  
Engineer Signature: LGWADE  
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.4371	31.18	-11.41	19.77	40.00	-20.23	QP			
2	99.5279	25.70	-13.21	12.49	43.50	-31.01	QP			
3	906.4823	26.47	2.22	28.69	46.00	-17.31	QP			

**Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Igwade #4745

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2402MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Horizontal

Power Source: DC 3V

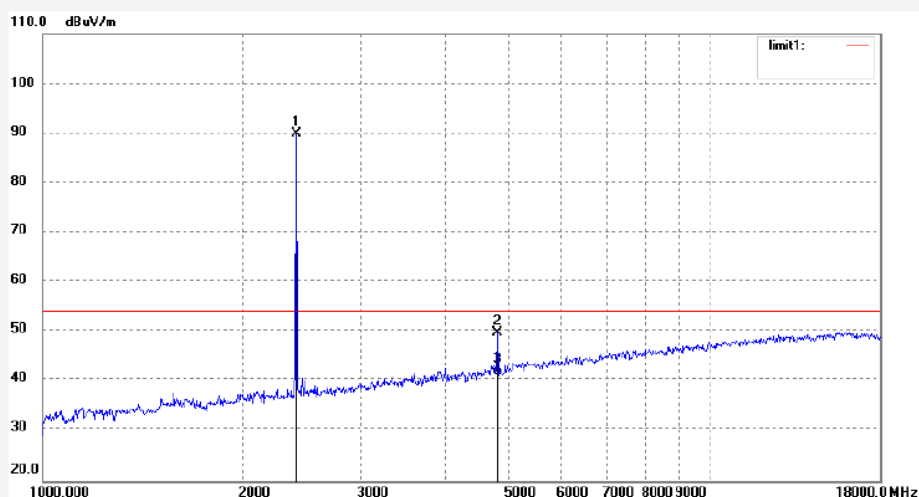
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	91.40	-1.61	89.79	54.00	35.79	peak			
2	4804.000	44.83	4.90	49.73	54.00	-4.27	peak			
3	4804.000	36.46	4.90	41.36	54.00	-12.64	AVG			

**Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**  
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Igwade #4746

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2402MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Vertical

Power Source: DC 3V

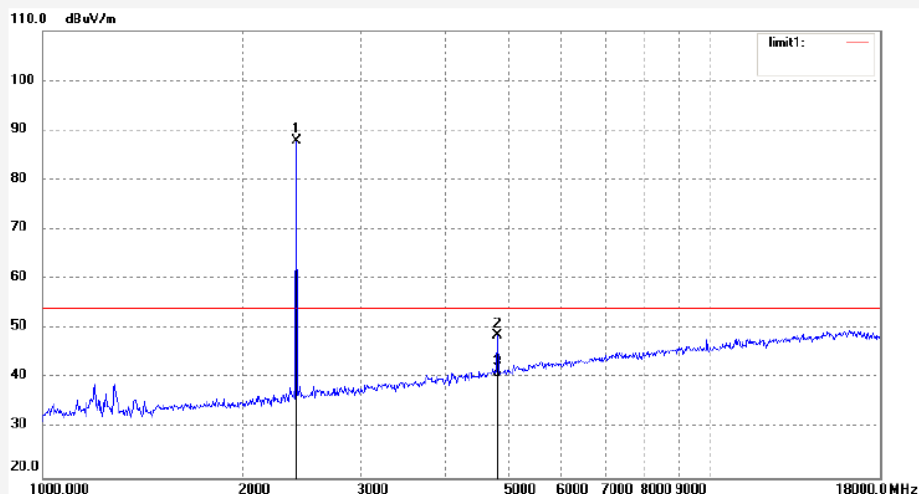
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	89.39	-1.61	87.78	54.00	33.78	peak			
2	4804.000	43.75	4.90	48.65	54.00	-5.35	peak			
3	4804.000	35.34	4.90	40.24	54.00	-13.76	AVG			



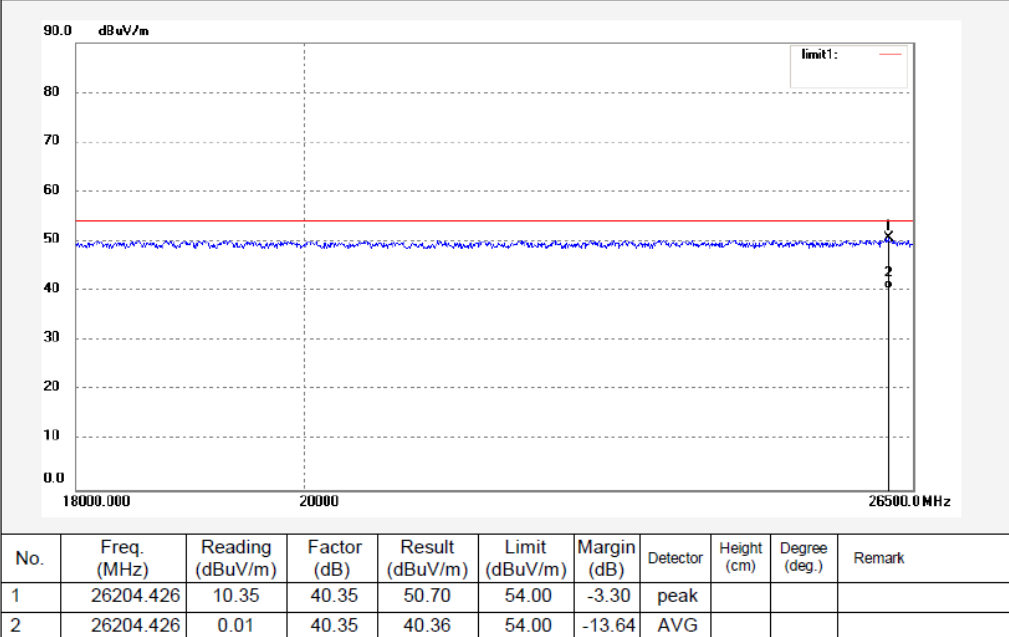
**Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz –25GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**  
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Igwade #4756	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 16/12/17/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Smart Band	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: MindG01	
Manufacturer: Mindpax s.r.o.	
Note: Bluetooth 4.0	



**Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 25GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4755

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2402MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Vertical

Power Source: DC 3V

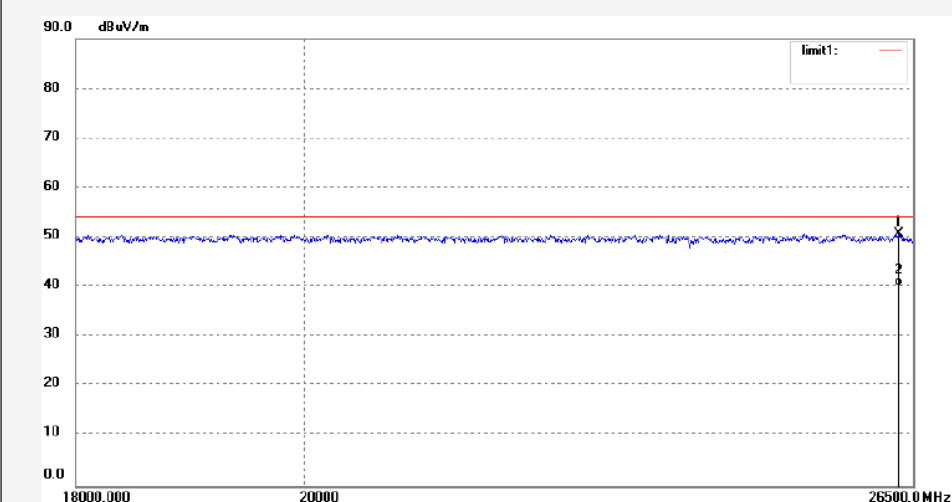
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26326.330	9.76	40.93	50.69	54.00	-3.31	peak			
2	26326.330	-0.66	40.93	40.27	54.00	-13.73	AVG			

**Figure 9: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz)**

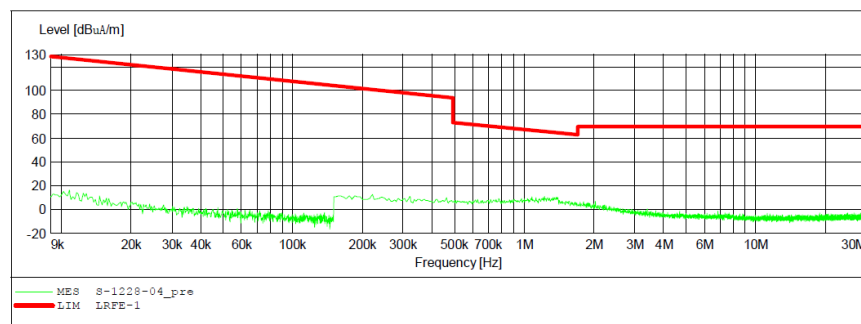
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Smart Band M/N:MindG01  
Manufacturer:  
Operating Condition: TX 2440MHz  
Test Site: 2# Chamber  
Operator: LGWADE  
Test Specification: DC 3V  
Comment: X

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB STD_VTERM2 1.70	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



**Figure 10: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz)**

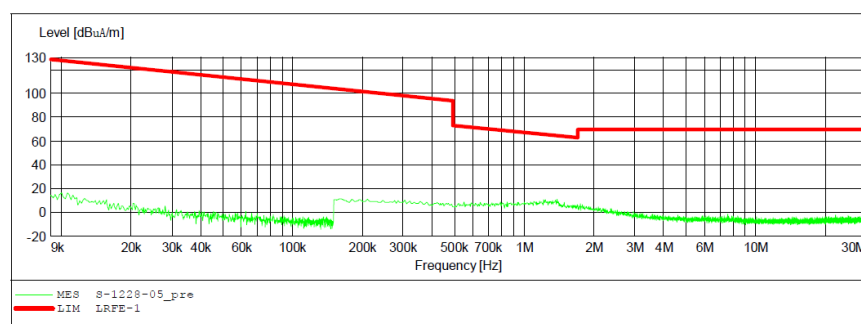
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Smart Band M/N:MindG01  
Manufacturer:  
Operating Condition: TX 2440MHz  
Test Site: 2# Chamber  
Operator: LGWADE  
Test Specification: DC 3V  
Comment: Y

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB STD_VTERM2 1.70	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	



**Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4764

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2440MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Horizontal

Power Source: DC 3V

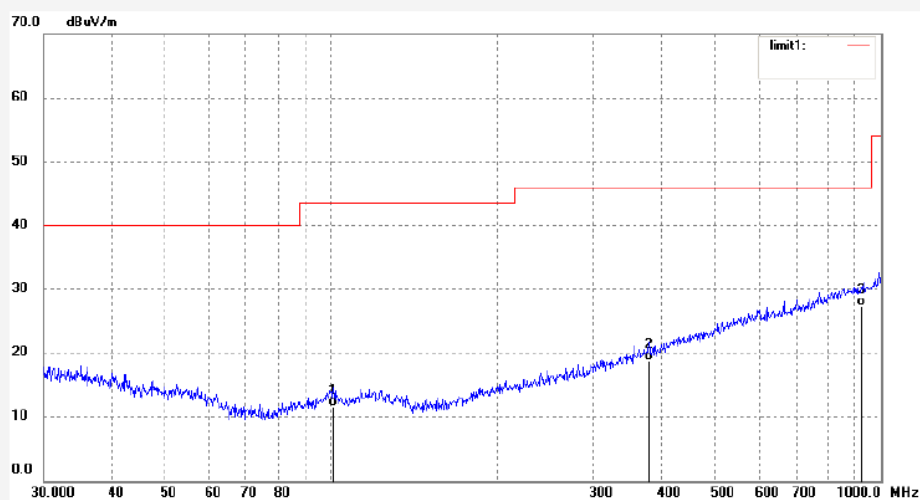
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	100.9339	24.85	-13.21	11.64	43.50	-31.86	QP			
2	378.5842	25.74	-7.01	18.73	46.00	-27.27	QP			
3	919.2866	24.85	2.49	27.34	46.00	-18.66	QP			

**Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4763

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2440MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Vertical

Power Source: DC 3V

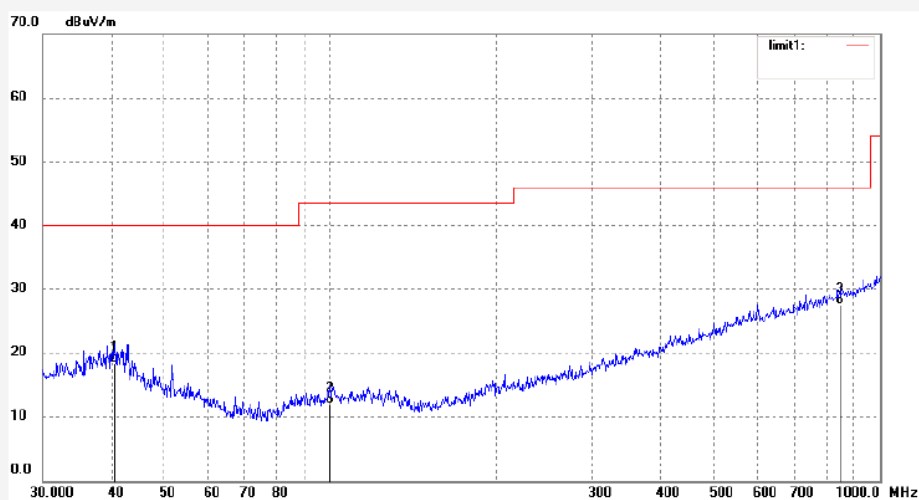
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	40.5591	30.11	-11.65	18.46	40.00	-21.54	QP			
2	99.8777	25.06	-13.09	11.97	43.50	-31.53	QP			
3	848.0562	25.98	1.54	27.52	46.00	-18.48	QP			

**Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4749

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2440MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Horizontal

Power Source: DC 3V

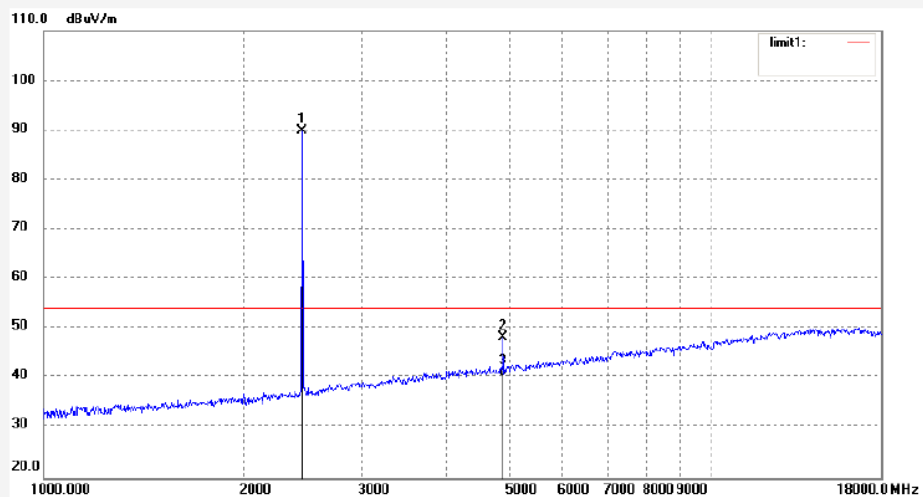
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	91.26	-1.46	89.80	54.00	35.80	peak			
2	4880.000	42.69	5.60	48.29	54.00	-5.71	peak			
3	4880.000	34.75	5.60	40.35	54.00	-13.65	AVG			

**Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4750

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2440MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Vertical

Power Source: DC 3V

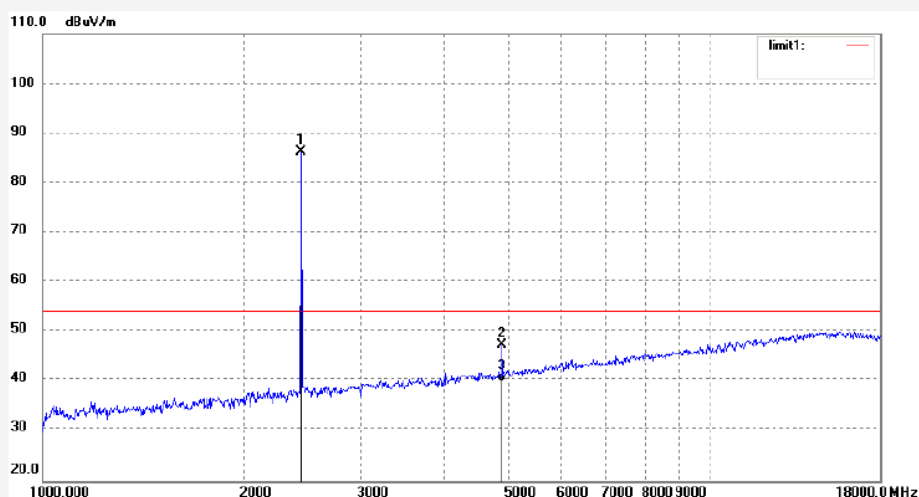
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	87.67	-1.46	86.21	54.00	32.21	peak			
2	4880.000	41.79	5.60	47.39	54.00	-6.61	peak			
3	4880.000	34.28	5.60	39.88	54.00	-14.12	AVG			

**Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 25GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4757

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2440MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Horizontal

Power Source: DC 3V

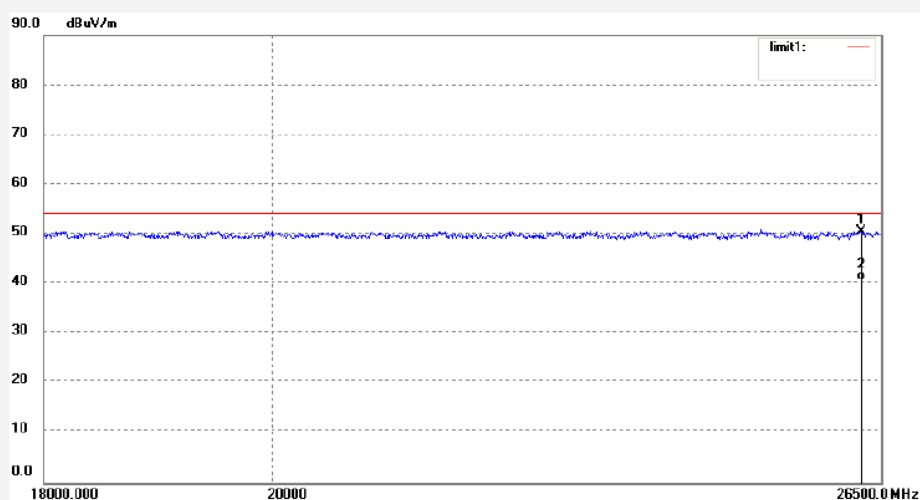
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26255.151	10.12	40.38	50.50	54.00	-3.50	peak			
2	26255.151	0.30	40.38	40.68	54.00	-13.32	AVG			



**Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 25GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

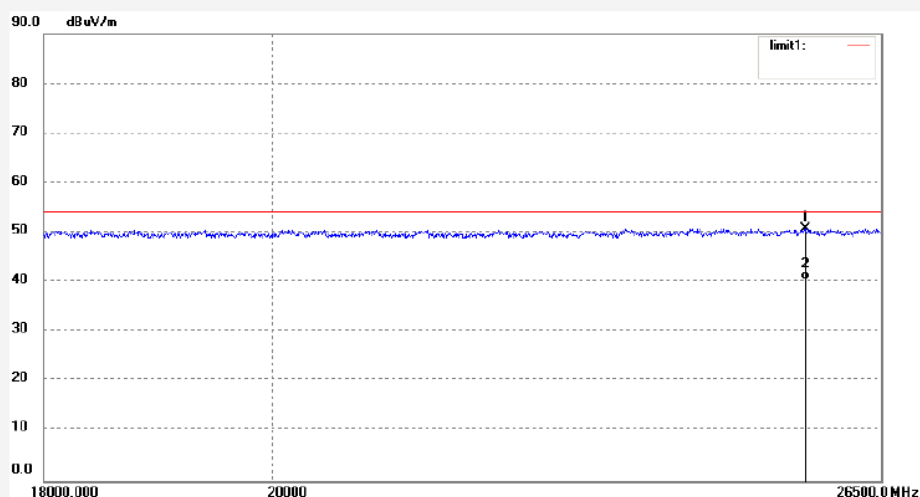
Site: 2# Chamber

Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Igwade #4758  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 48 %  
EUT: Smart Band  
Mode: TX 2440MHz  
Model: MindG01  
Manufacturer: Mindpax s.r.o.

Polarization: Vertical  
Power Source: DC 3V  
Date: 16/12/17/  
Time:  
Engineer Signature: LGWADE  
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25593.417	9.66	41.04	50.70	54.00	-3.30	peak			
2	25593.417	-0.66	41.04	40.38	54.00	-13.62	AVG			

**Figure 17: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz)**

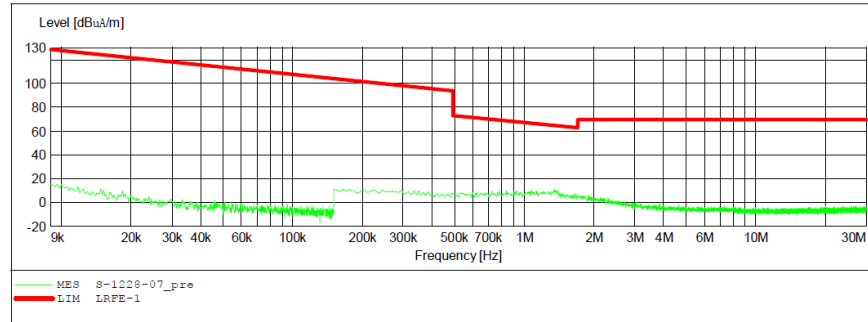
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Smart Band M/N:MindG01  
Manufacturer:  
Operating Condition: TX 2480MHz  
Test Site: 2# Chamber  
Operator: LGWADE  
Test Specification: DC 3V  
Comment: X

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB_STD_VTERM2	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	1.70	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz		QuasiPeak	1.0 s	9 kHz	1516M



**Figure 18: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz)**

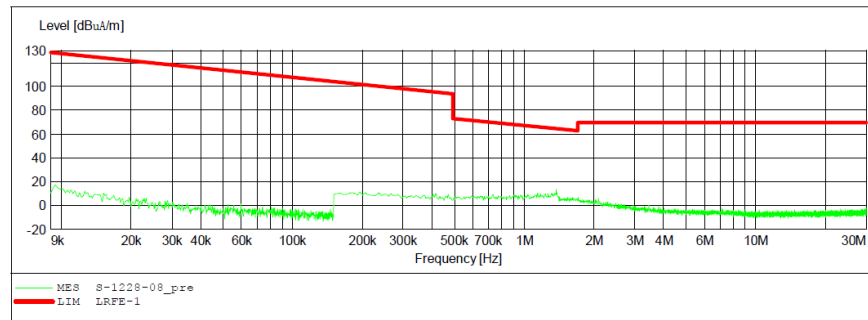
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Smart Band M/N:MindG01  
Manufacturer:  
Operating Condition: TX 2480MHz  
Test Site: 2# Chamber  
Operator: LGWADE  
Test Specification: DC 3V  
Comment: Y

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB_STD_VTERM2	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	1.70	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz		QuasiPeak	1.0 s	9 kHz	1516M



**Figure 19: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4765

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2480MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Horizontal

Power Source: DC 3V

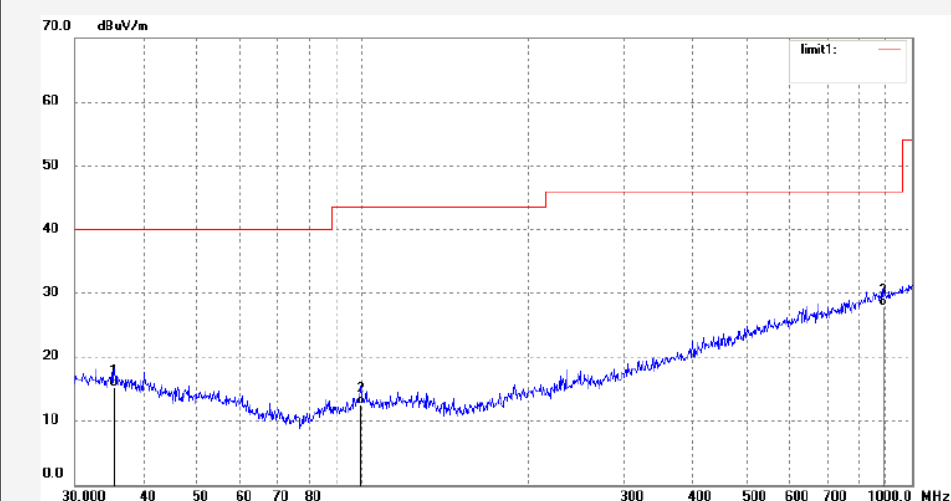
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.3750	25.89	-10.49	15.40	40.00	-24.60	QP			
2	99.5279	25.74	-13.21	12.53	43.50	-30.97	QP			
3	887.6099	25.79	2.12	27.91	46.00	-18.09	QP			

**Figure 20: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4766

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2480MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Vertical

Power Source: DC 3V

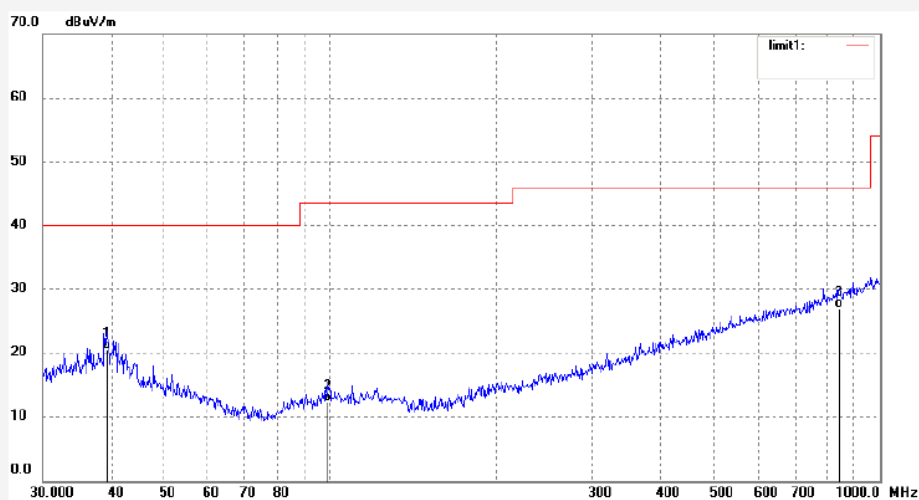
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.1615	31.94	-11.35	20.59	40.00	-19.41	QP			
2	99.1796	25.75	-13.33	12.42	43.50	-31.08	QP			
3	842.1295	25.61	1.50	27.11	46.00	-18.89	QP			

**Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4752

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2480MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Horizontal

Power Source: DC 3V

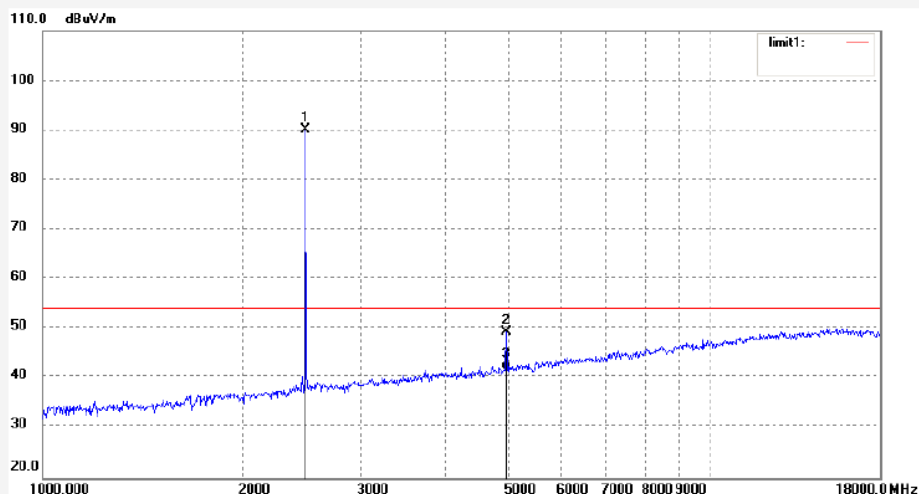
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	91.40	-1.40	90.00	54.00	36.00	peak			
2	4960.000	43.34	6.10	49.44	54.00	-4.56	peak			
3	4960.000	35.57	6.10	41.67	54.00	-12.33	AVG			

**Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4751

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2480MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Vertical

Power Source: DC 3V

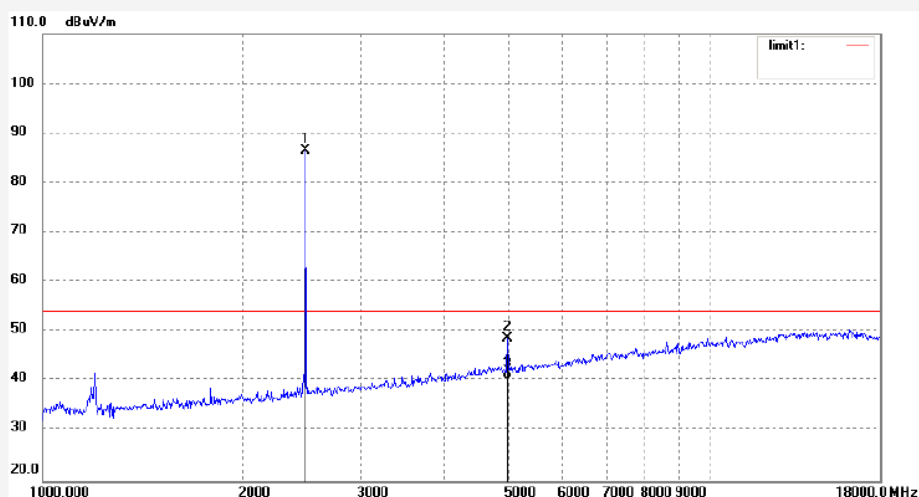
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	87.95	-1.40	86.55	54.00	32.55	peak			
2	4960.000	42.51	6.10	48.61	54.00	-5.39	peak			
3	4960.000	34.36	6.10	40.46	54.00	-13.54	AVG			

**Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz –25GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4760

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Smart Band

Mode: TX 2480MHz

Model: MindG01

Manufacturer: Mindpax s.r.o.

Polarization: Horizontal

Power Source: DC 3V

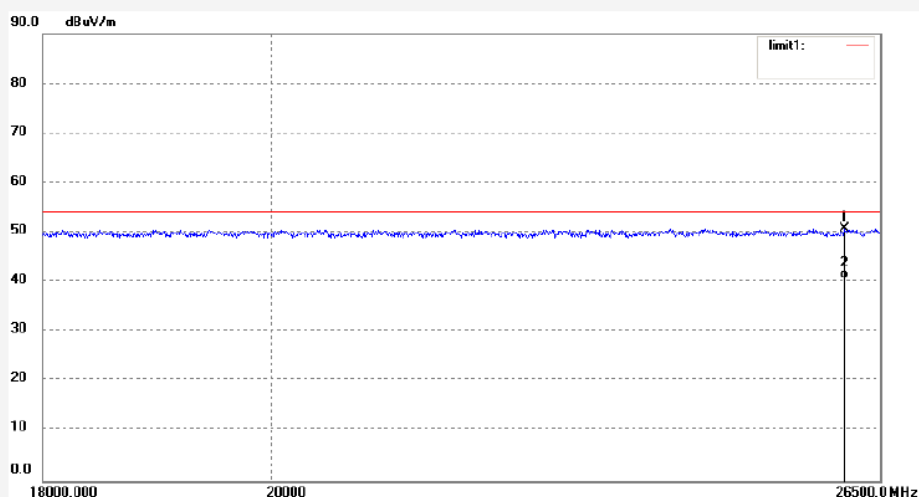
Date: 16/12/17/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26072.999	10.43	40.28	50.71	54.00	-3.29	peak			
2	26072.999	0.39	40.28	40.67	54.00	-13.33	AVG			

**Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 25GHz)**



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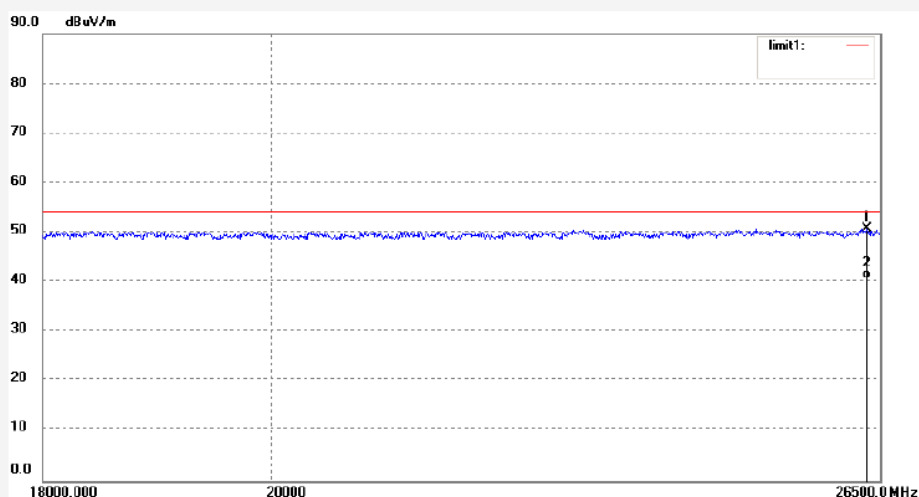
Site: 2# Chamber

Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Igwade #4759  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 48 %  
EUT: Smart Band  
Mode: TX 2480MHz  
Model: MindG01  
Manufacturer: Mindpax s.r.o.

Polarization: Vertical  
Power Source: DC 3V  
Date: 16/12/17/  
Time:  
Engineer Signature: LGWADE  
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26346.703	9.85	40.92	50.77	54.00	-3.23	peak			
2	26346.703	-0.23	40.92	40.69	54.00	-13.31	AVG			



**Figure 25: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal**



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Site: 2# Chamber

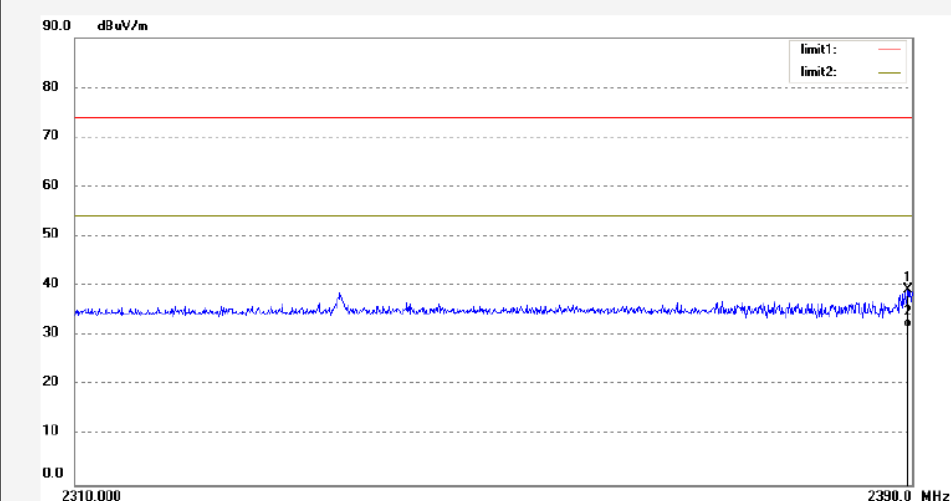
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4748  
Standard: FCC (Band Edge)  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 48 %  
EUT: Smart Band  
Mode: TX 2402MHz  
Model: MindG01  
Manufacturer: Mindpax s.r.o.

Polarization: Horizontal  
Power Source: DC 3V  
Date: 16/12/17/  
Time:  
Engineer Signature: LGWADE  
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2389.600	41.00	-1.71	39.29	74.00	-34.71	peak			
2	2389.600	33.25	-1.71	31.54	54.00	-22.46	AVG			

**Figure 26: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical**



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Site: 2# Chamber

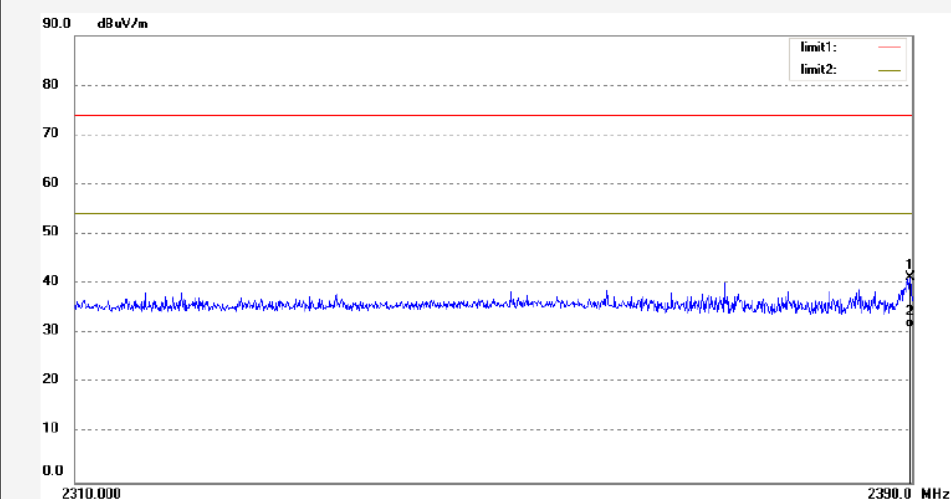
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4747  
Standard: FCC (Band Edge)  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 48 %  
EUT: Smart Band  
Mode: TX 2402MHz  
Model: MindG01  
Manufacturer: Mindpax s.r.o.

Polarization: Vertical  
Power Source: DC 3V  
Date: 16/12/17/  
Time:  
Engineer Signature: LGWADE  
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2389.840	43.07	-1.71	41.36	74.00	-32.64	peak			
2	2389.840	32.94	-1.71	31.23	54.00	-22.77	AVG			

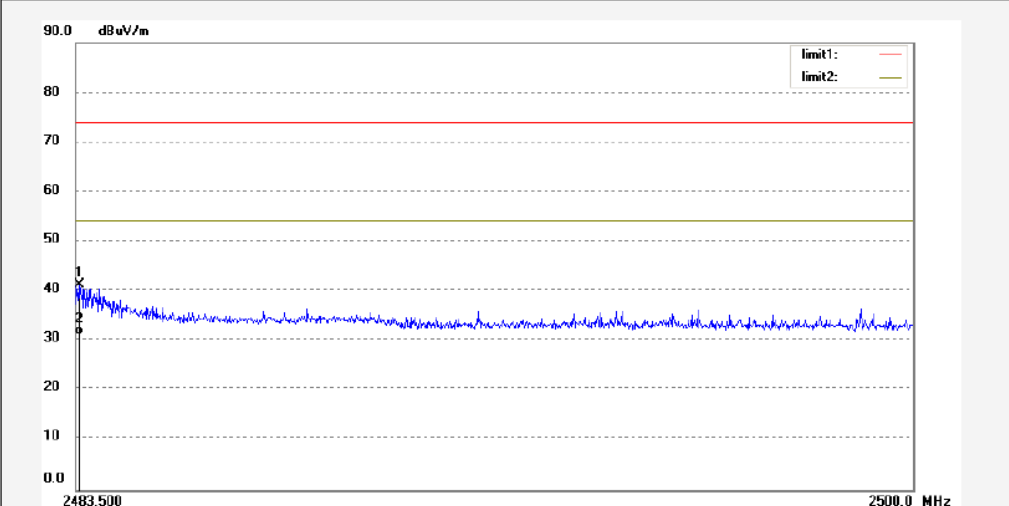
**Figure 27: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal**



**ACCURATE TECHNOLOGY CO., LTD.**  
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Igwade #4753	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 16/12/17/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Smart Band	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: MindG01	
Manufacturer: Mindpax s.r.o.	
Note: Bluetooth 4.0	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.566	42.69	-1.40	41.29	74.00	-32.71	peak			
2	2483.566	32.65	-1.40	31.25	54.00	-22.75	AVG			

**Figure 28: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical**



**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

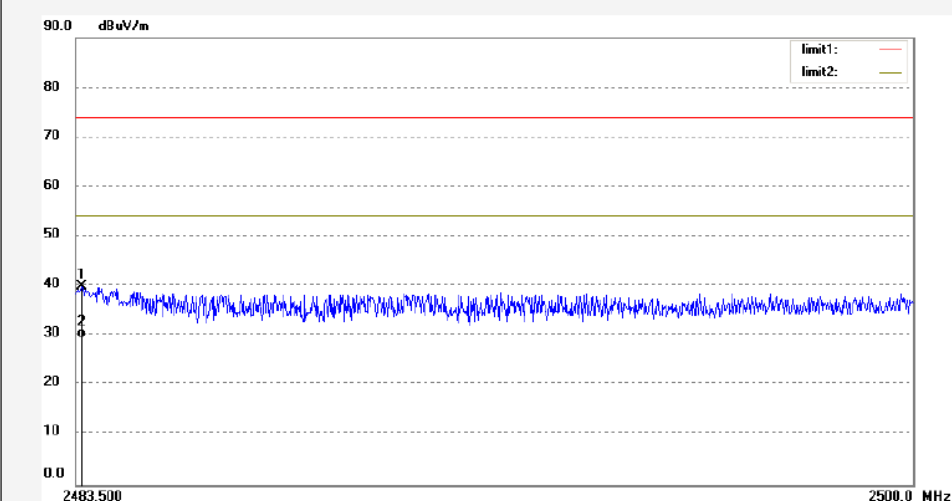
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #4754  
Standard: FCC (Band Edge)  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 48 %  
EUT: Smart Band  
Mode: TX 2480MHz  
Model: MindG01  
Manufacturer: Mindpax s.r.o.

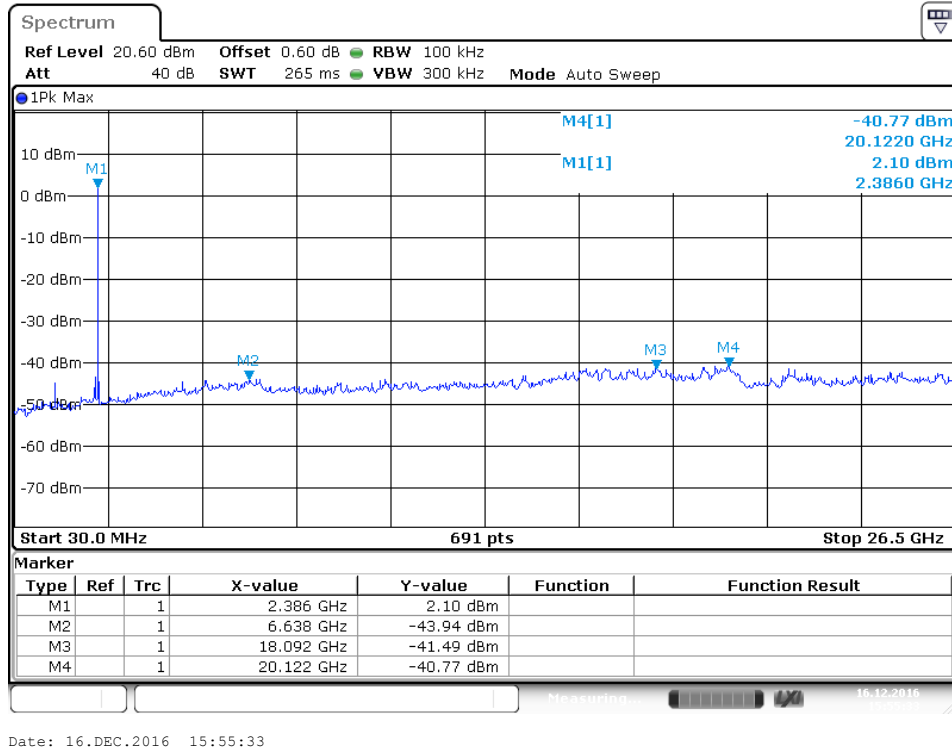
Polarization: Vertical  
Power Source: DC 3V  
Date: 16/12/17/  
Time:  
Engineer Signature: LGWADE  
Distance: 3m

Note: Bluetooth 4.0

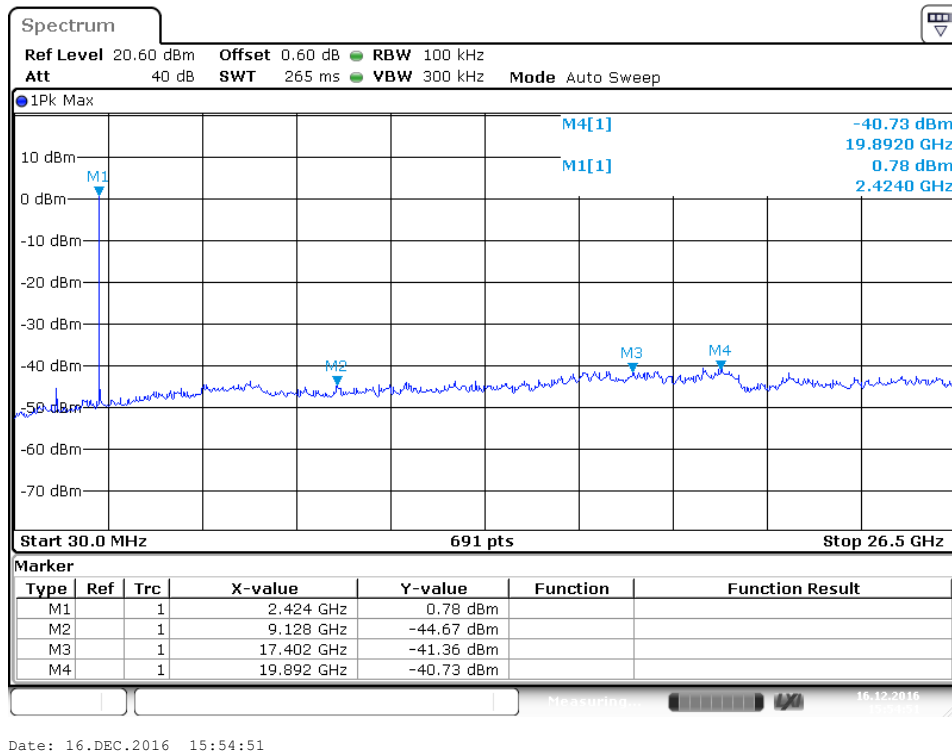


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.615	41.37	-1.40	39.97	74.00	-34.03	peak			
2	2483.615	30.97	-1.40	29.57	54.00	-24.43	AVG			

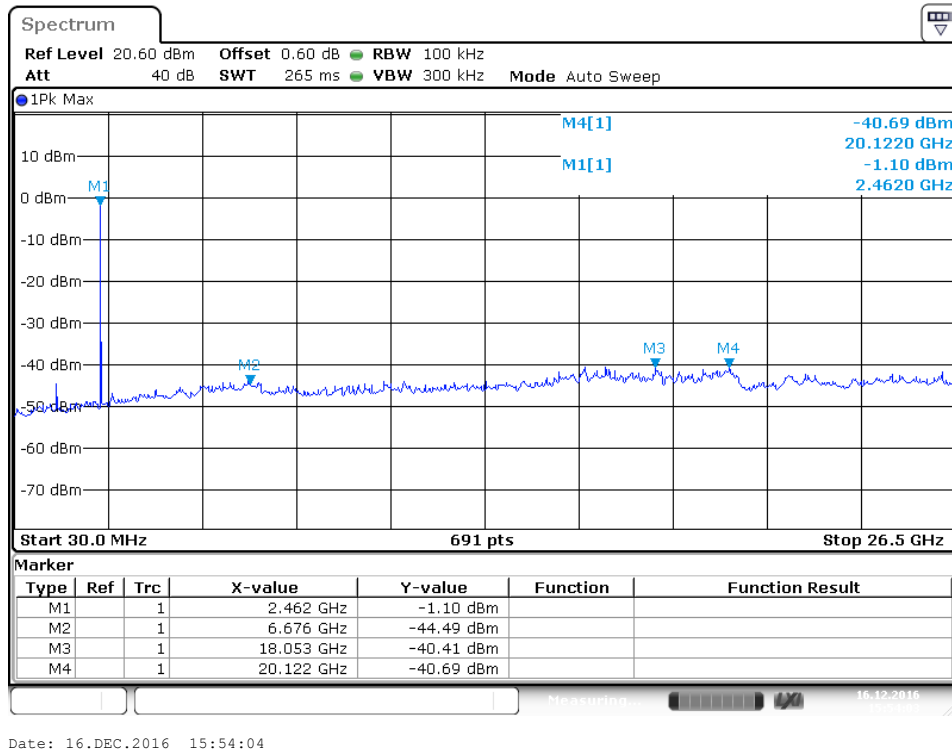
**Figure 29: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.1**



**Figure 30: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.2**



**Figure 31: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.3**



**Figure 32: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.1**

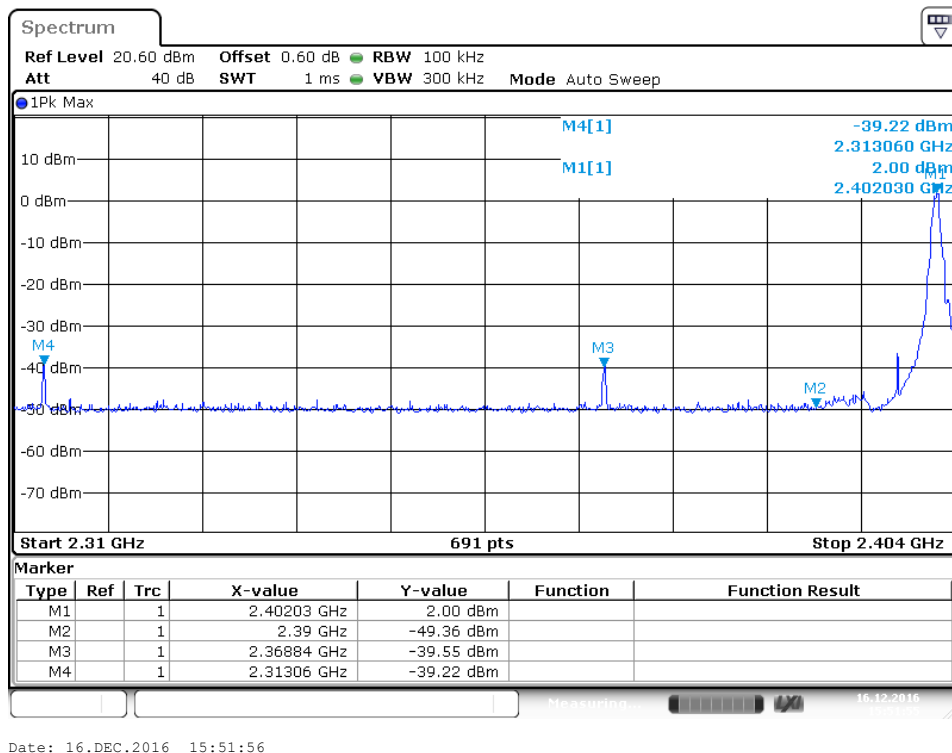


Figure 33: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.3



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