Produkte
Products

TÜVRheinland®

Prüfbericht - Nr.: *Test Report No.:*	**17029621 001**	**Seite 1 von 40** *Page 1 of 40*
Auftraggeber: *Client:*	**LARK TECHNOLOGIES INC.** **2570 West El Camino Real, Suite 100, Mountain View , CA 94040, United States**	
Gegenstand der Prüfung: *Test item:*	**Larklife**	
Bezeichnung: *Identification:*	**10020**	**Serien-Nr.:** *Serial No.:* n.a.
Wareneingangs-Nr.: *Receipt No.:*	**163096964**	**Eingangsdatum:** *Date of receipt:* **2012-08-10**
Zustand des Prüfgegenstandes bei Anlieferung: **Condition of test item at delivery:**	Test samples received are sufficient for testing and not damaged.	
Prüfort: *Testing location:*	**Shenzhen Accurate Technology Co., Ltd.** **(Details refer to clause 2.1)**	
Prüfgrundlage: *Test specification:*	**FCC CFR47 Part 15: Subpart C Section 15.247** **FCC CFR47 Part 15: Subpart C Section 15.207** **FCC CFR47 Part 15: Subpart C Section 15.209** **RSS-210 Issue 8 December 2010** **RSS-Gen Issue 3 December 2010** **RSS-102 Issue 4 March 2010**	
Prüfergebnis: *Test Result:*	**Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).** *The test item passed the test specification(s).*	
Prüflaboratorium: *Testing Laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.	

geprüft/ *tested by:*			**kontrolliert/** *reviewed by:*		
2013-01-20	Owen Tian/ Project Manager		2013-01-22	Winnie Hou/ Technical Certifier	
Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges/ *Other Aspects:*

Abkürzungen:				*Abbreviations:*			
	P(ass)	=	*entspricht Prüfgrundlage*		*P(ass)*	=	*passed*
	F(ail)	=	*entspricht nicht Prüfgrundlage*		*F(ail)*	=	*failed*
	N/A	=	*nicht anwendbar*		*N/A*	=	*not applicable*
	N/T	=	*nicht getestet*		*N/T*	=	*not tested*

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT
RESULT: Passed

5.1.2 PEAK OUTPUT POWER
RESULT: Passed

5.1.3 20DB BANDWIDTH
RESULT: Passed

5.1.4 99% BANDWIDTH
RESULT: Passed

5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH
RESULT: Passed

5.1.6 SPURIOUS EMISSION
RESULT: Passed

5.1.7 FREQUENCY SEPARATION
RESULT: Passed

5.1.8 NUMBER OF HOPPING FREQUENCY
RESULT: Passed

5.1.9 TIME OF OCCUPANCY
RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Passed

Contents

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 Meterial Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A

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
Spurious emission and Radiated emission				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2013-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2013-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2013-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2013-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2013-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	2013-01-07
Radio Test Suite				
Receiver	Rohde & Schwarz	ESPI	100396/003	2013-01-07
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-07
Artificial Mains Network	Schwarzbeck	NLSK8126	8126431	2013-01-07

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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are ±3dB.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 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 Meterial 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 silent wakeup wrist device using Bluetooth technique.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Larklife
Type Designation:	10020
FCC ID	QCFLARKLIFE
IC	10654A-LARKLIFE

Table 3: Technical Specification of EUT

Technical Specification	**Value**
Operating Frequency band	2402 – 2480 MHz
Channel separation	1MHz
Extreme Temperature Range	-20ºC to +55ºC
Operation Voltage	DC3.7V Li-ion battery
Modulation	GFSK, 8PSK, $\pi/4$ DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	4dBi
RF Output Power	0.00459W (6.62dBm)

Table 4: Frequency hopping information

Technical Specification	Description
Hopping Range	Hereby we declare that the maximum frequency of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V2.1+EDR for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73, 07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56, 69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43, 15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

3.3 Independent Operation Modes

The basic operation modes are:

A. Transmitting
   1. Low channel
   2. Middle channel
   3. High channel

B. Standby
C. Receiving
D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

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

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: 2003.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested with following accessories

Description	Manufacturer	Type	Rating
Day time band (Li-ion battery inside)	LARK TECHNOLOGIES INC.	10020BS	DC 5V
night time cradle (Li-ion battery inside)	LARK TECHNOLOGIES INC.	10020BM	DC 5V
AC/DC Adapter	Fontastic Telecom Inc.	AC1A11	Input:: 100-240Vac, 50/60Hz, 0.3A output: 5.0Vdc, 1A

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

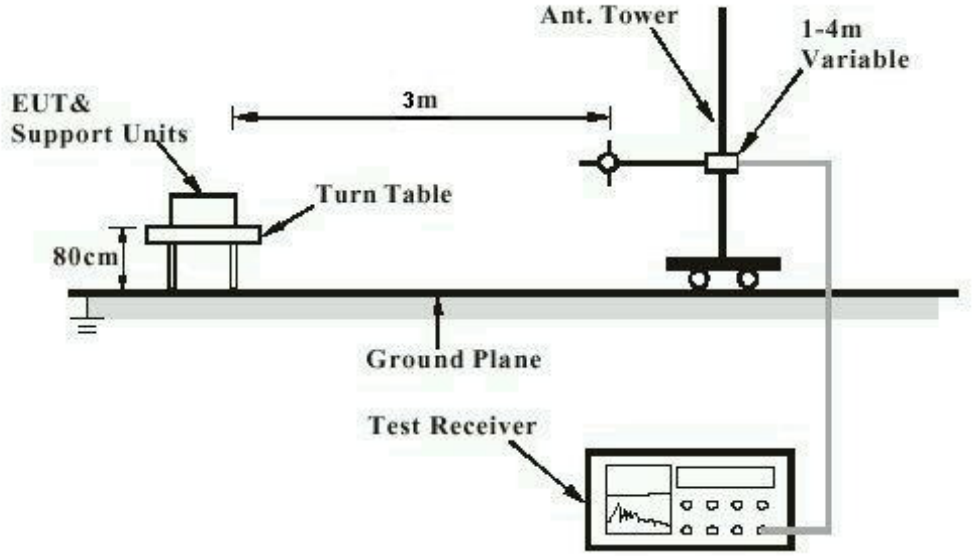


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

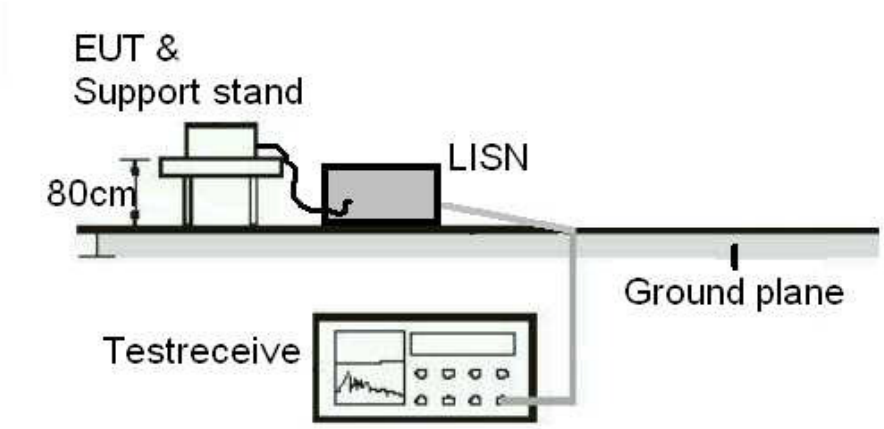
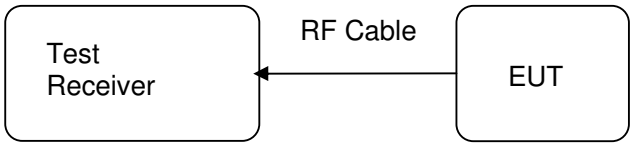


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Passed**

Test date	:	2012-11-13
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 7.1.4
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 0dBi, 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	:	2012-11-13
Test standard	:	FCC Part 15.247(b)(1) RSS-210 A8.4 (2)
Basic standard	:	ANSI C63.4: 2003
Limit	:	1 Watt
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	53%
Atmospheric pressure	:	101 kPa

Table 5: Test result of Peak Output Power, GFSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	1.38	0.00137	0.125
Middle Channel	2441	6.07	0.00405	0.125
High Channel	2480	6.62	0.00459	0.125

Remark: RBW is 1MHz

Table 6: Test result of Peak Output Power, 8DPSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-3.65	0.00043	0.125
Middle Channel	2441	2.12	0.00163	0.125
High Channel	2480	3.92	0.00247	0.125

Remark: RBW is 3MHz

5.1.3 20dB Bandwidth

RESULT: **Passed**

Date of testing	:	2012-11-13
Test standard	:	FCC Part 15.247(a)(1) RSS-210 A8.1 (a)
Basic standard	:	ANSI C63.4: 2003
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

Table 7: Test result of 20dB Bandwidth, GFSK modulation

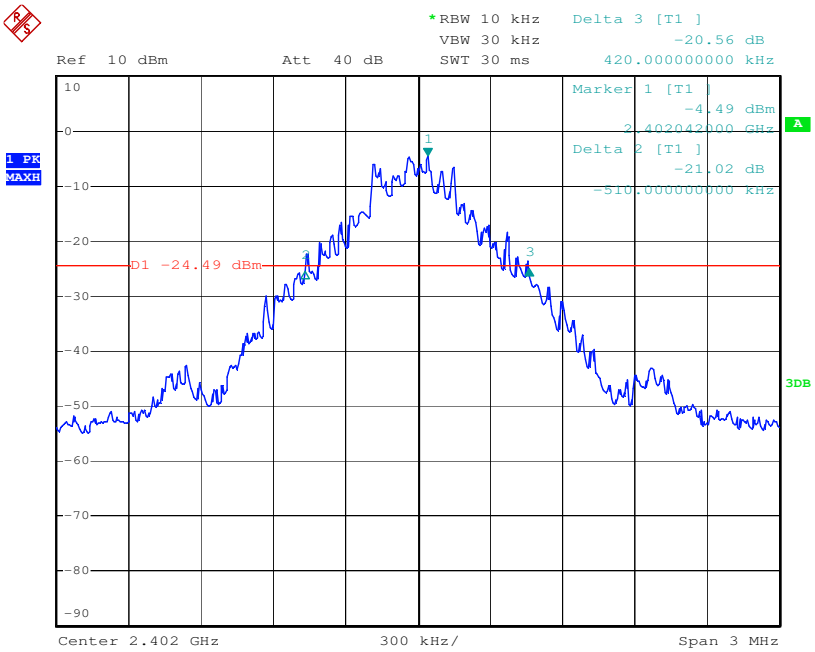
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	930	/	Pass
Mid Channel	2441	930	/	Pass
High Channel	2480	930	/	Pass

Table 8: Test result of 20dB Bandwidth, 8DPSK modulation

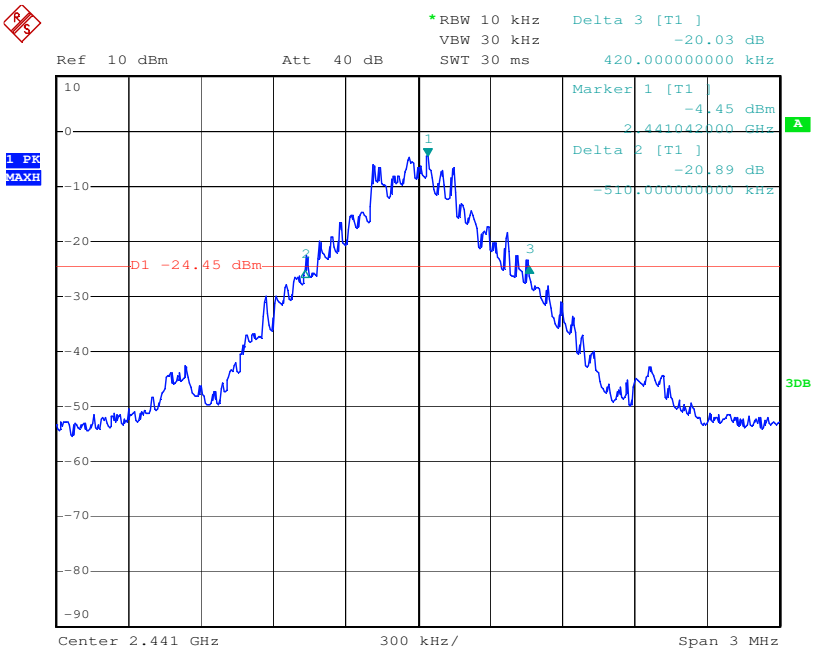
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1272	/	Pass
Mid Channel	2441	1272	/	Pass
High Channel	2480	1272	/	Pass

Test Plot of 20dB Bandwidth, GFSK modulation

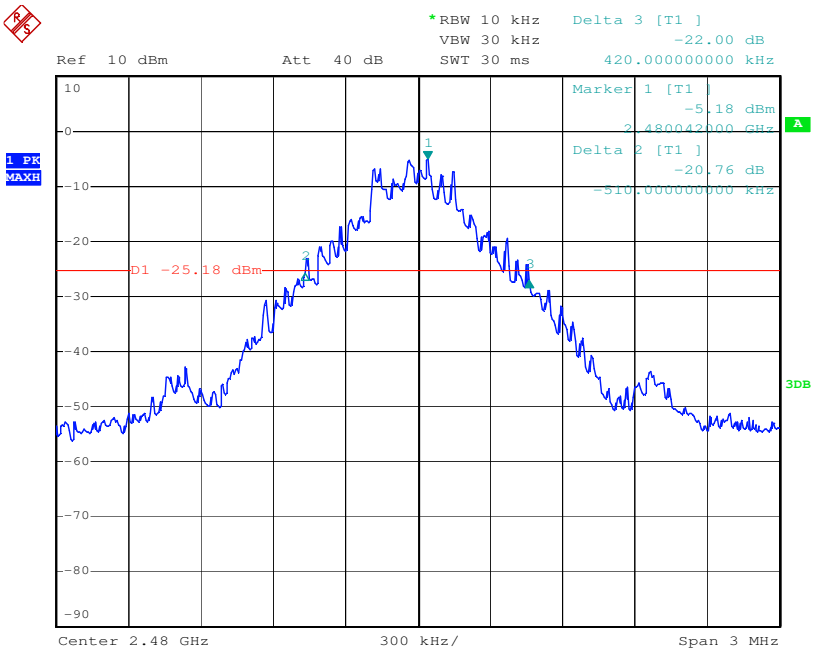
Low Channel



Middle Channel

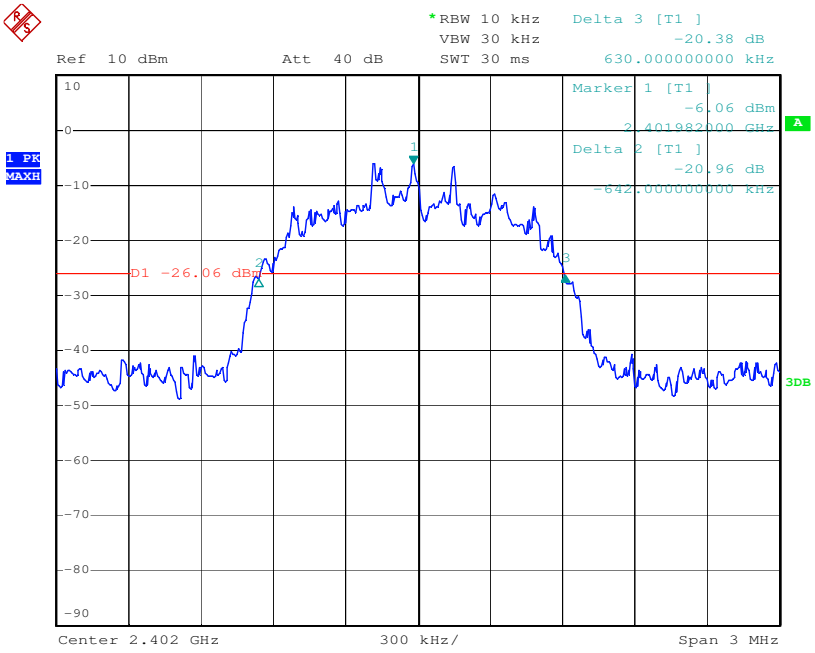


High Channel

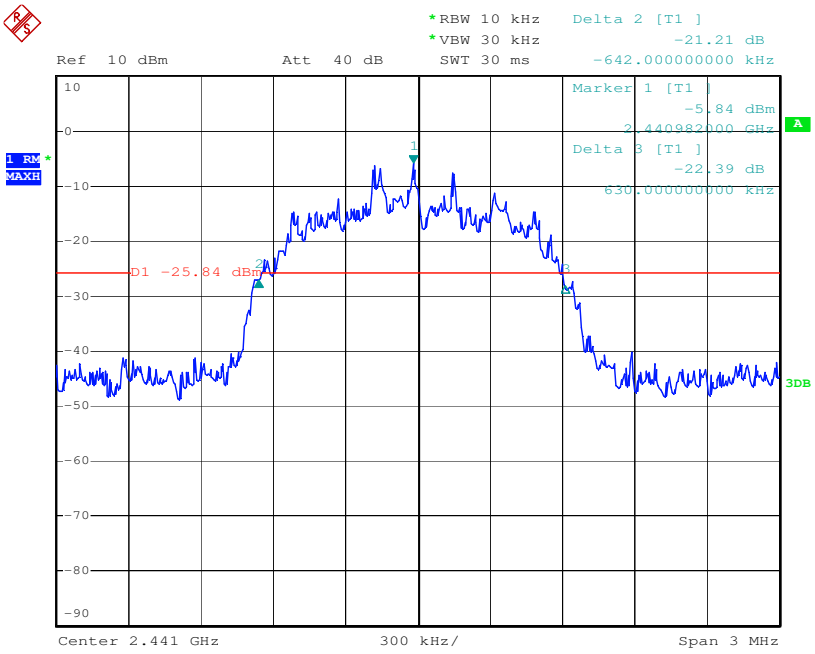


Test Plot of 20dB Bandwidth, 8DPSK modulation

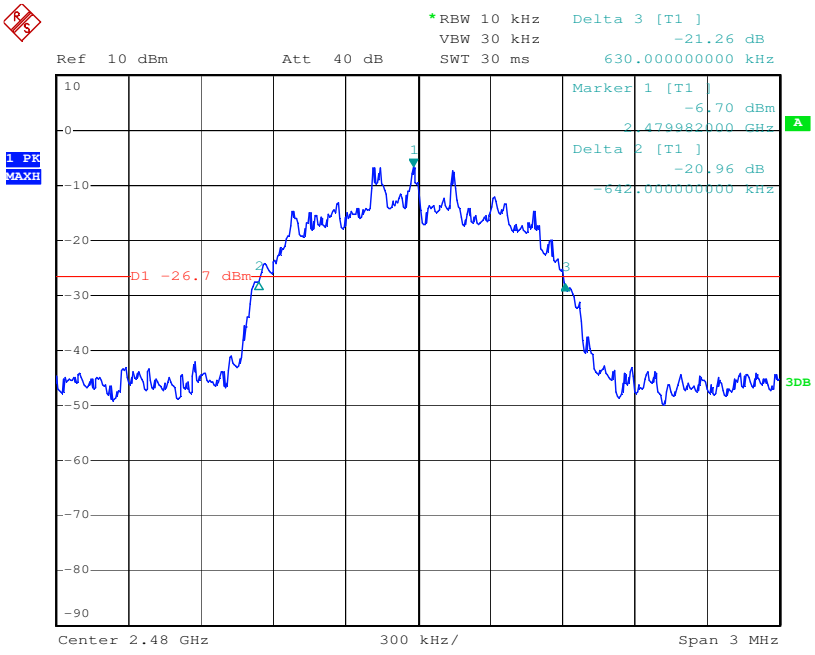
Low Channel



Middle Channel



High Channel



5.1.4 99% Bandwidth

RESULT: **Passed**

Date of testing	:	2012-11-13
Test standard	:	RSS-Gen clause 4.6.1
Basic standard	:	ANSI C63.4: 2003
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

Table 9: Test result of 99% Bandwidth, GFSK Modulation

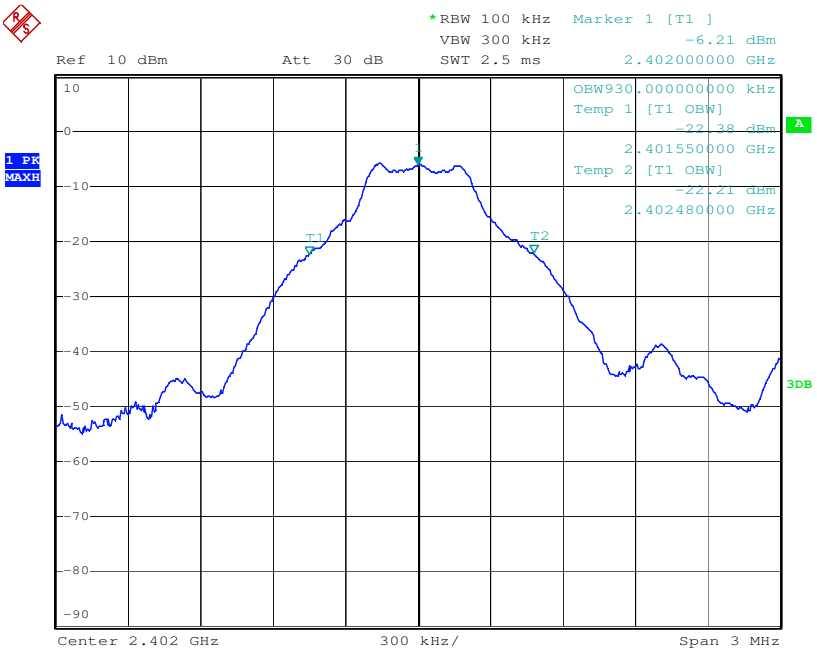
Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	930	/	Pass
Mid Channel	2441	942	/	Pass
High Channel	2480	942	/	Pass

Table 10: Test result of 99% Bandwidth, 8DPSK Modulation

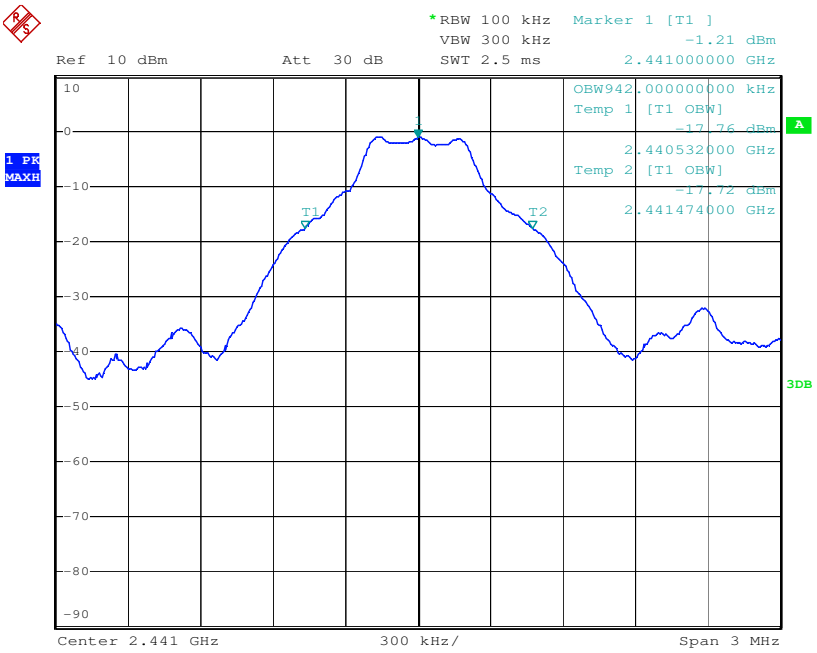
Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1194	/	Pass
Mid Channel	2441	1194	/	Pass
High Channel	2480	1206	/	Pass

Test Plot of 99% Bandwidth, GFSK Modulation

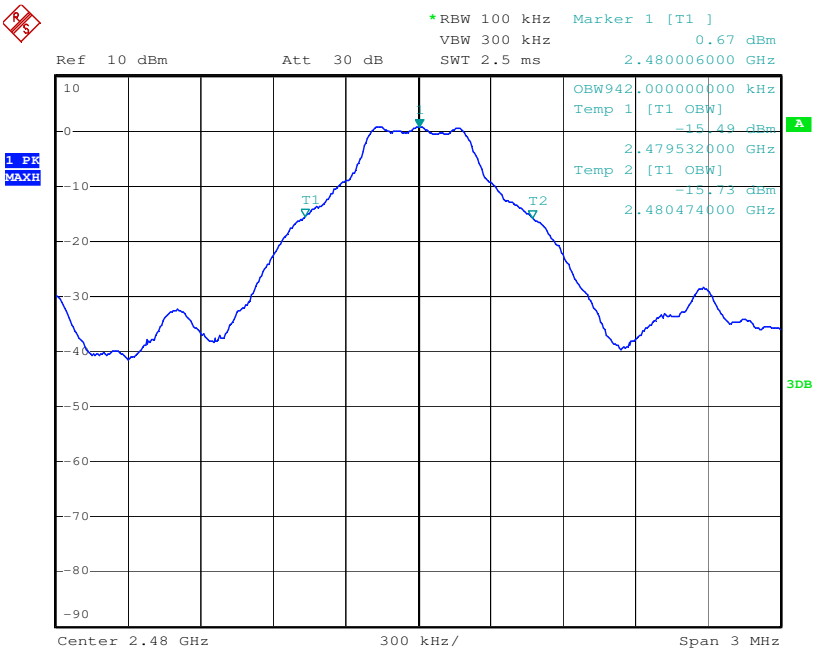
Low Channel



Middle Channel

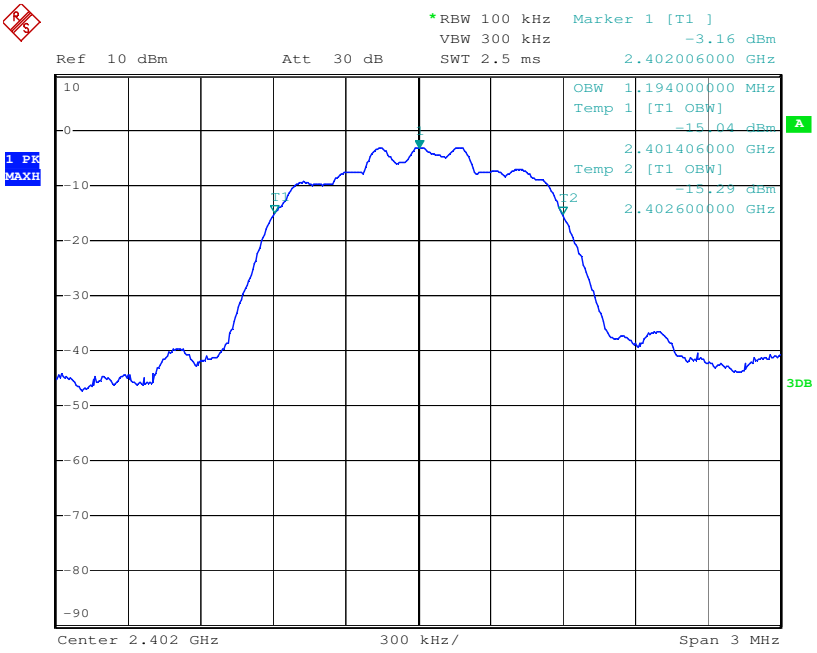


High Channel

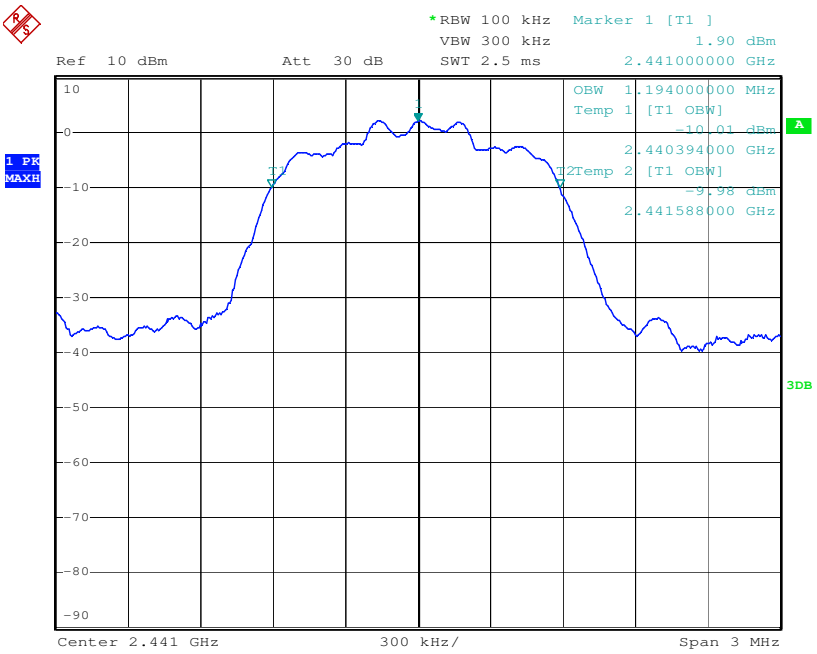


Test Plot of 99% Bandwidth, GFSK Modulation

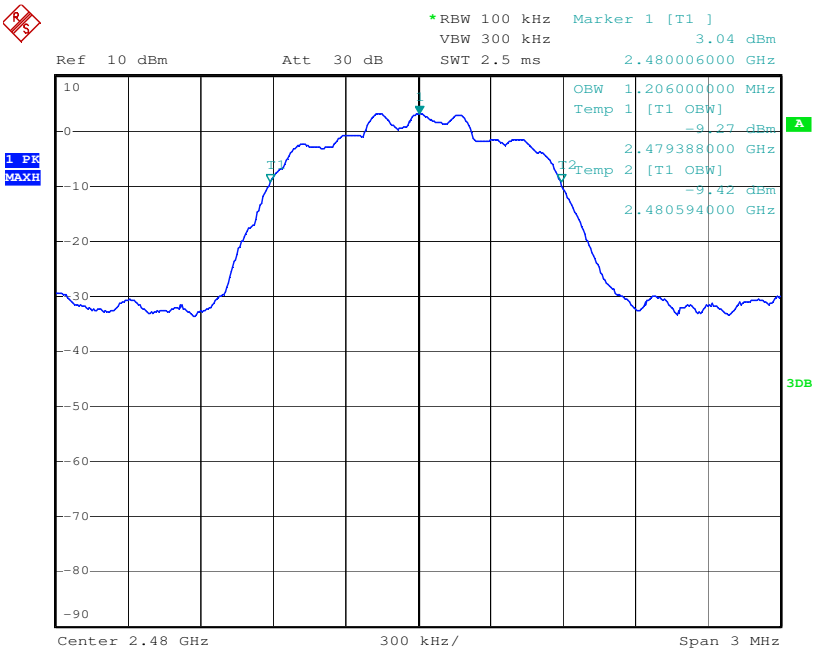
Low Channel



Middle Channel



High Channel



5.1.5 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT: **Passed**

Date of testing	:	2012-11-13
Test standard	:	FCC part 15.247(d) RSS-210 A8.5
Basic standard	:	ANSI C63.4: 2003
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

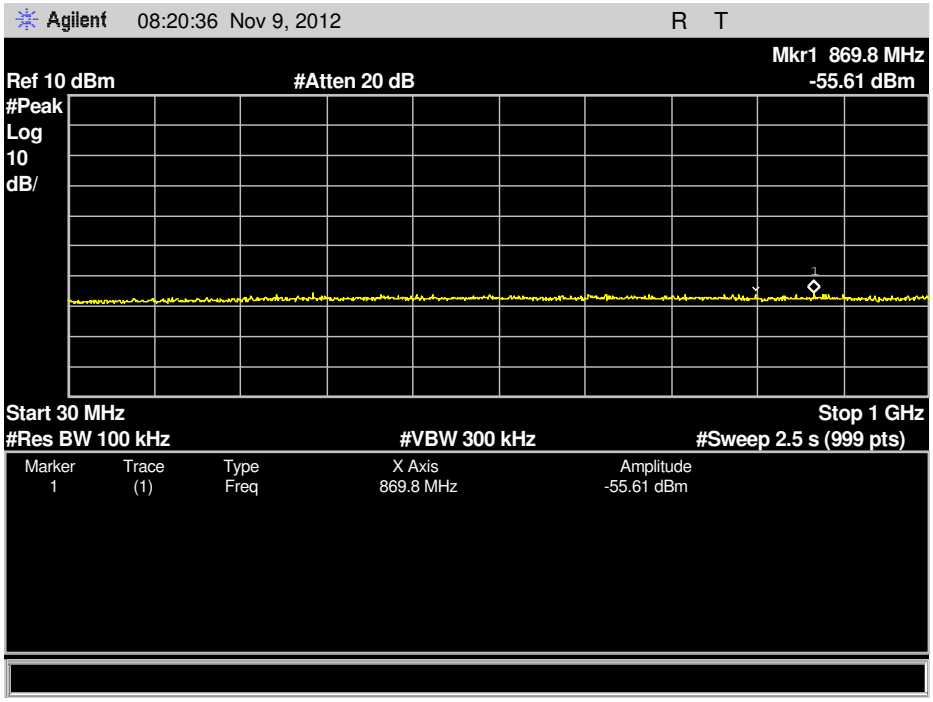
Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

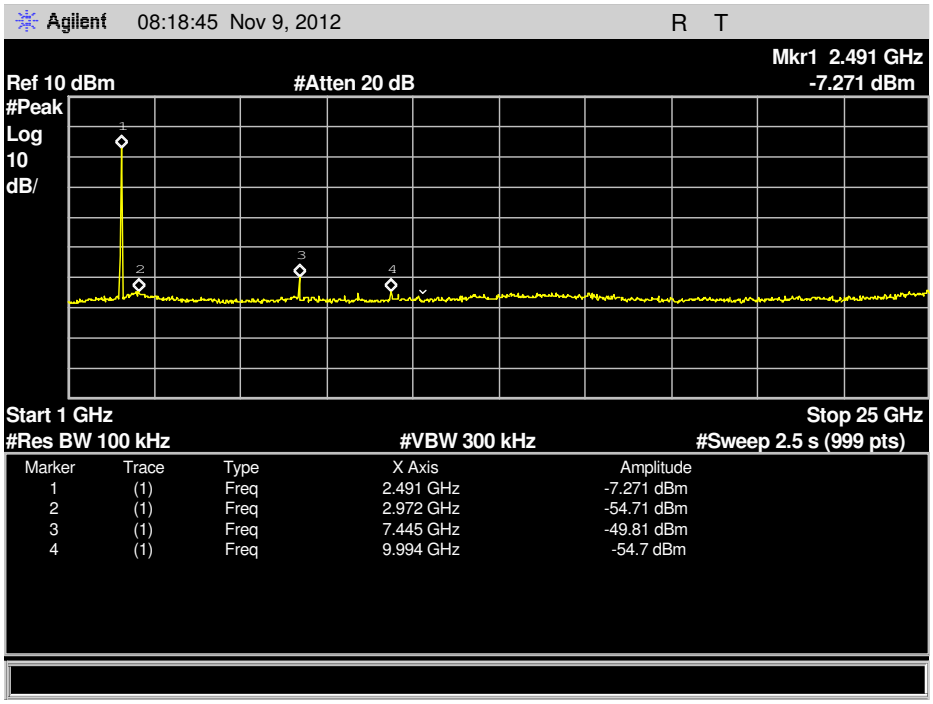
All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achived as well.

Test Plot of 100kHz Bandwidth of Frequency Band Edge, GFSK modulation

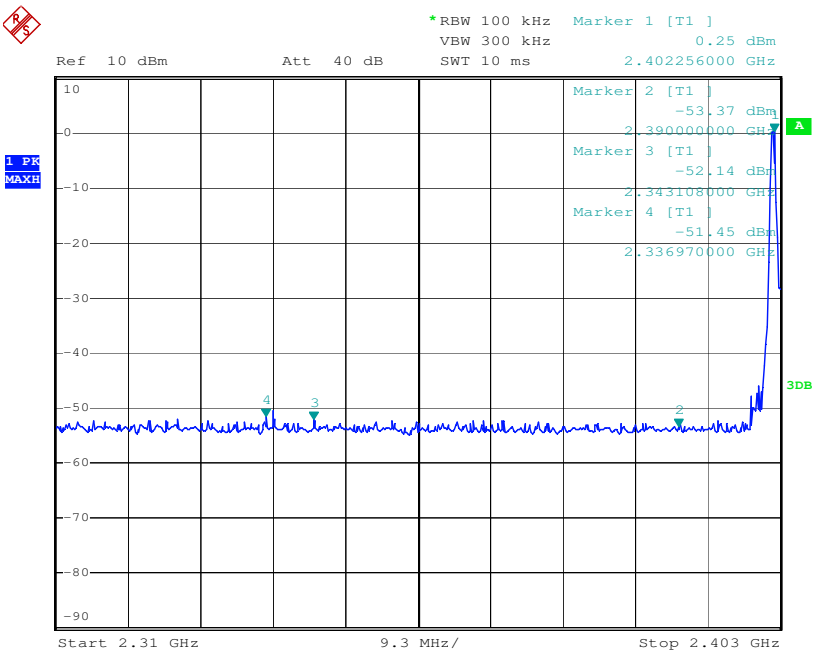
Low Channel, below 1GHz



Low Channel, above 1GHz



Low Channel, Band Edge



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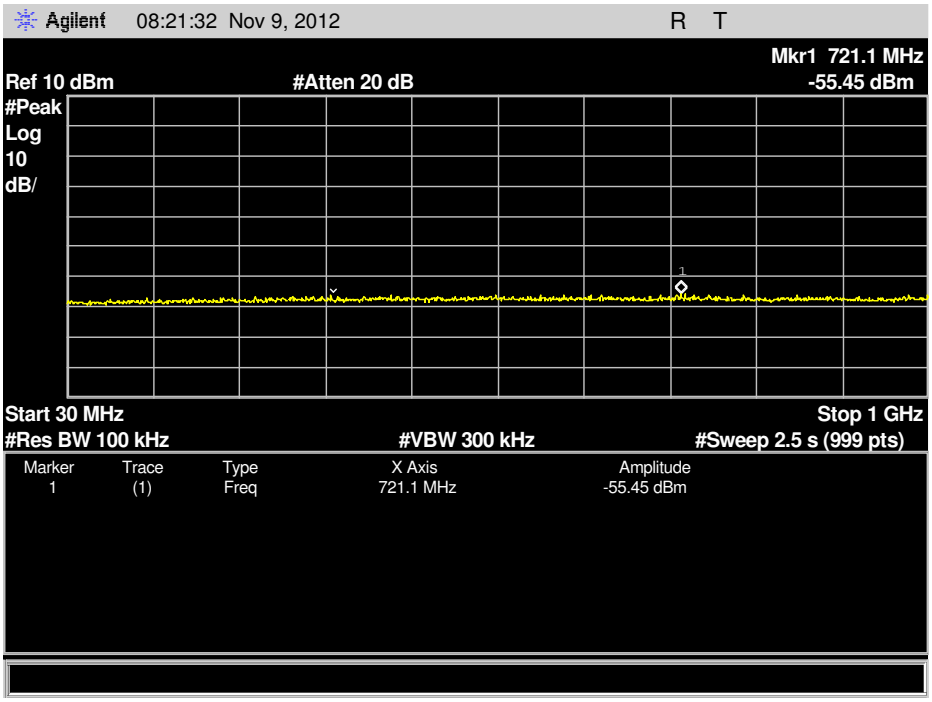
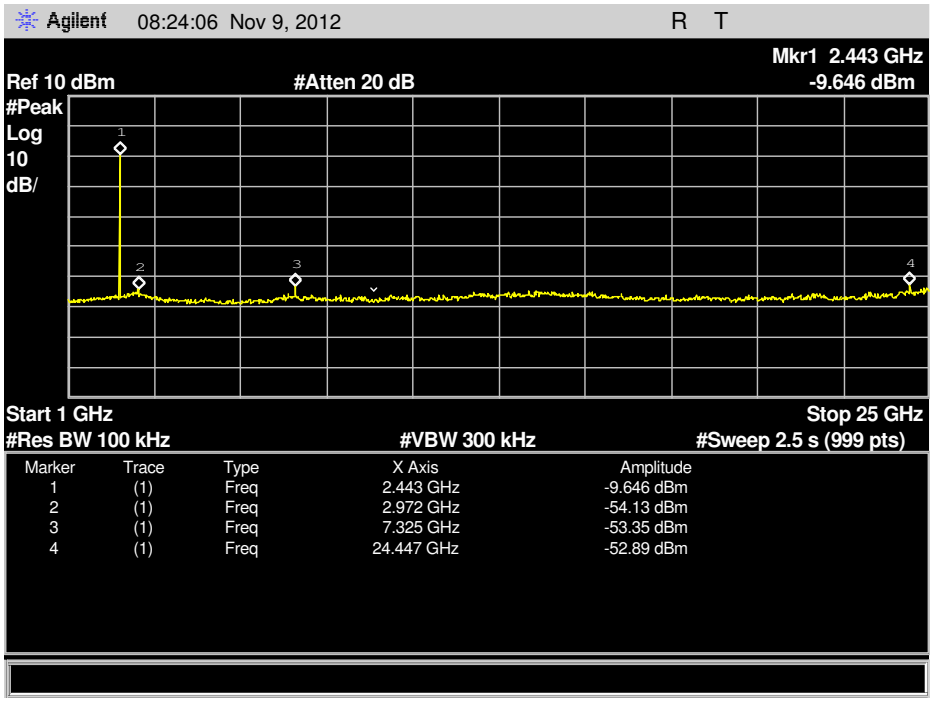
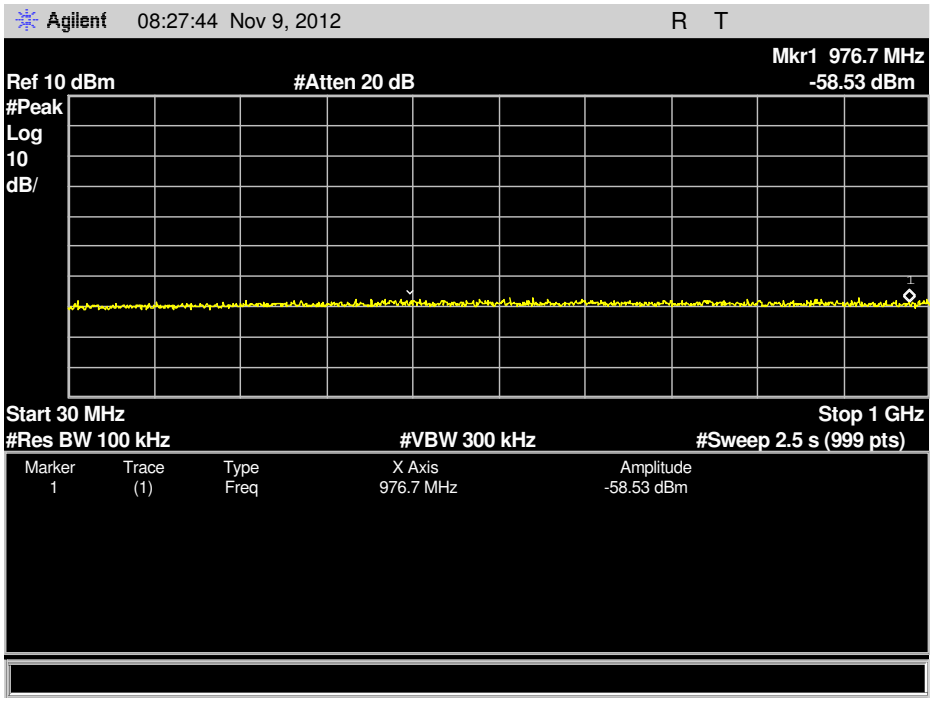
Middle Channel, below 1GHz



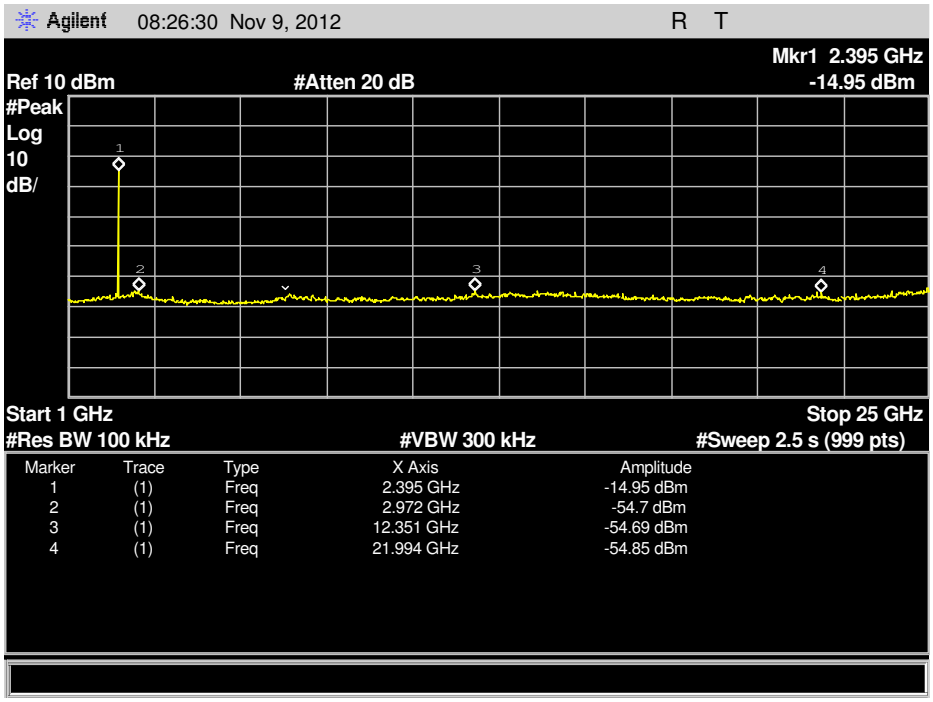
Middle Channel, above 1GHz



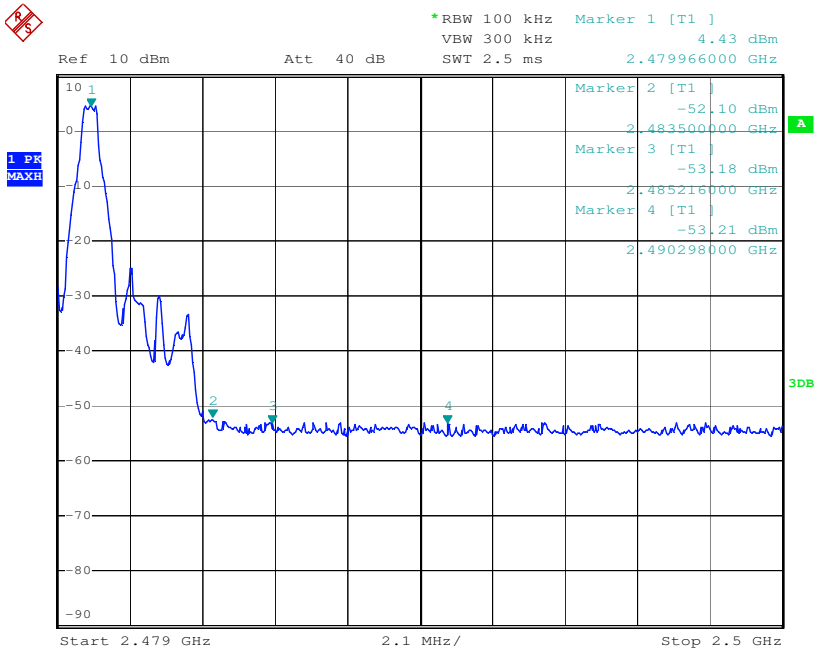
High Channel, below 1GHz



High Channel, above 1GHz



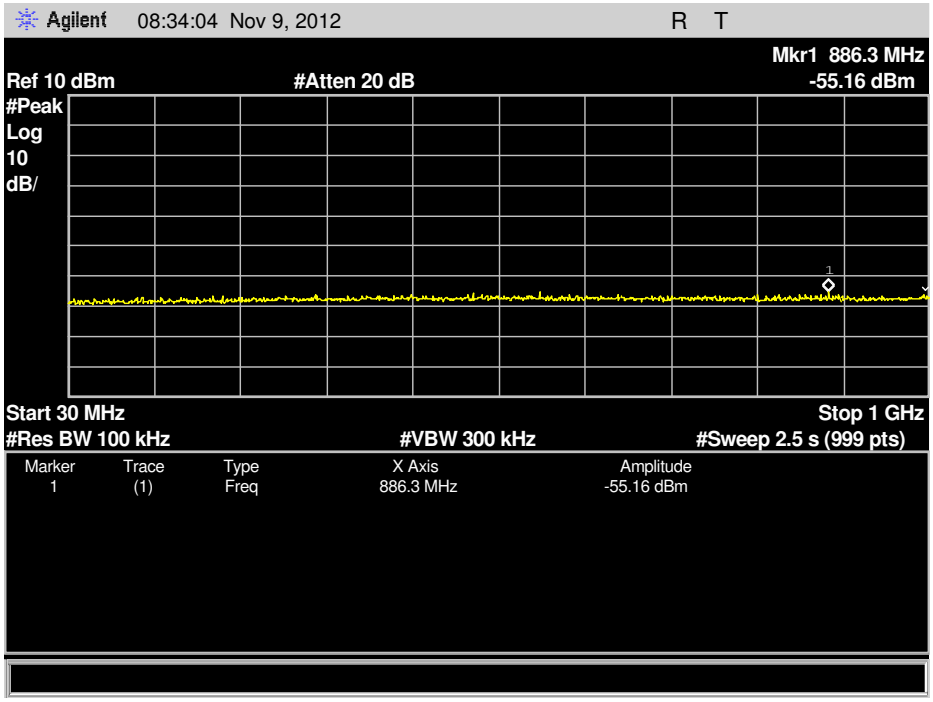
High Channel, Band Edge



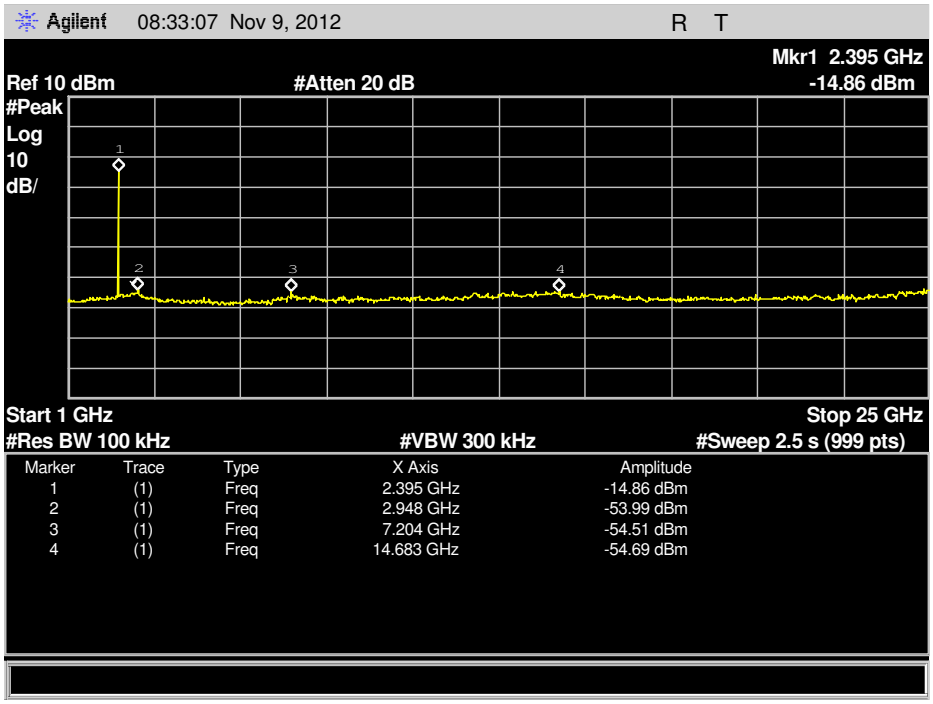
Date: 13.NOV.2012 10:26:38

Test Plot of 100kHz Bandwidth of Frequency Band Edge, 8DPSK modulation

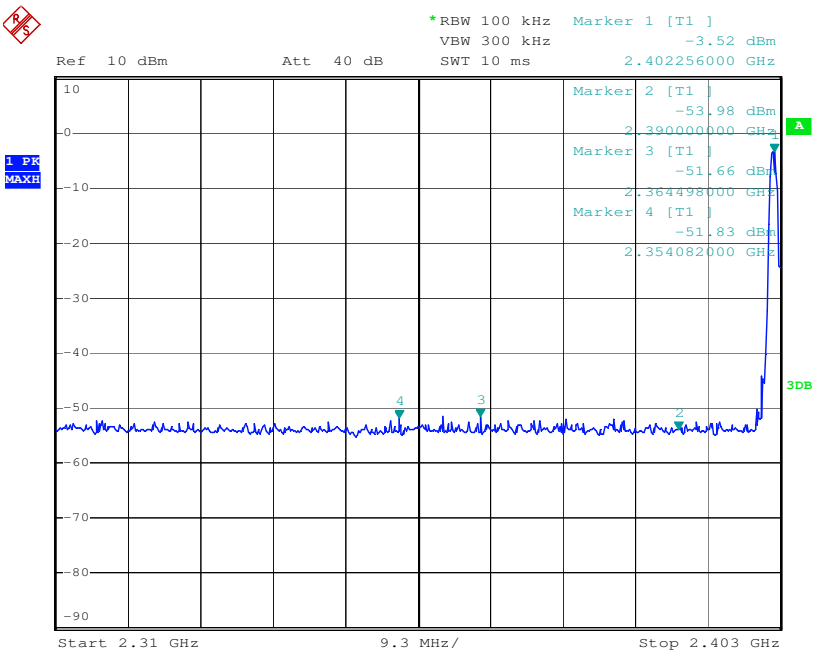
Low Channel, below 1GHz



Low Channel, above 1GHz



Low Channel, Band Edge



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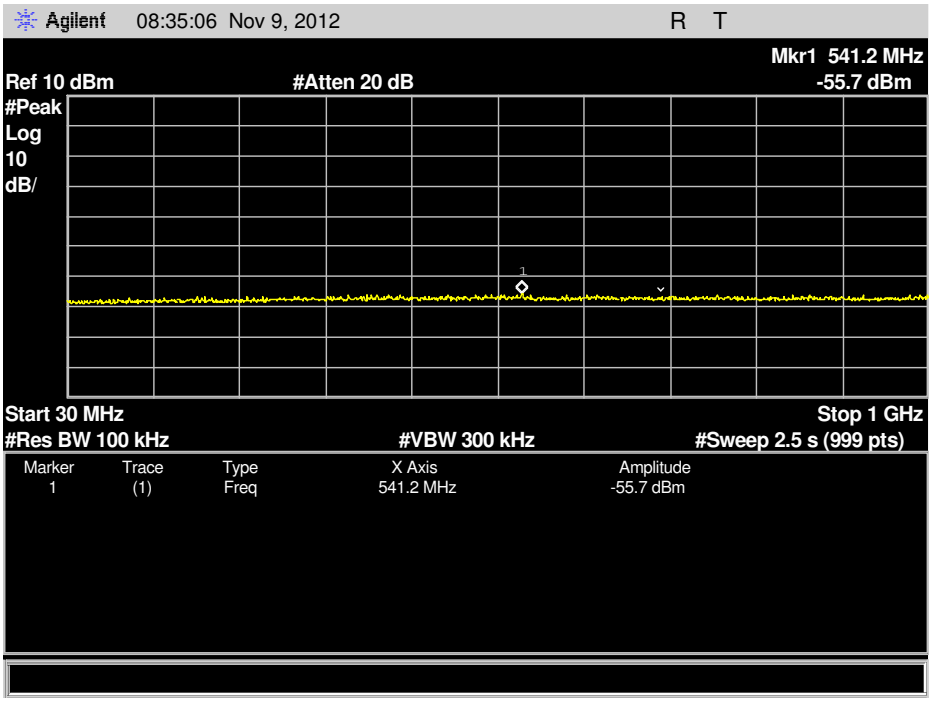
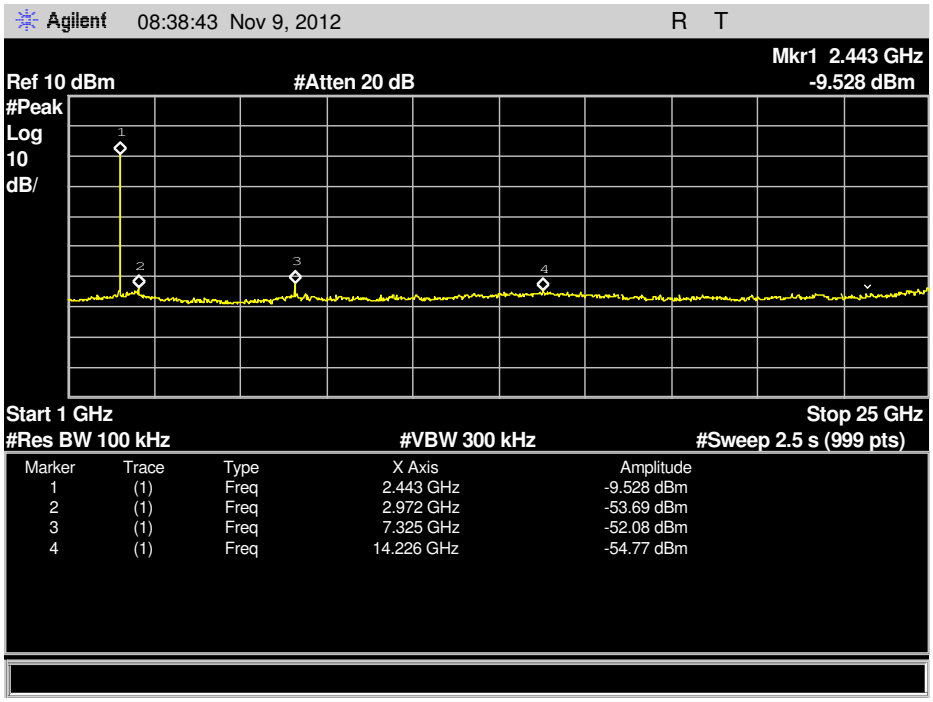
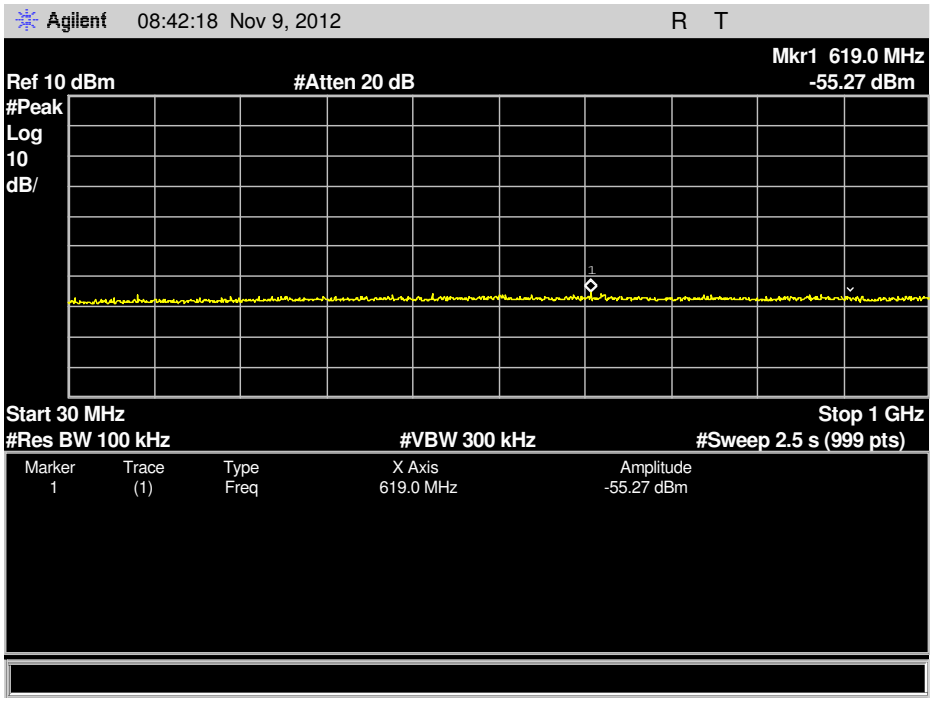
Middle Channel, below 1GHz



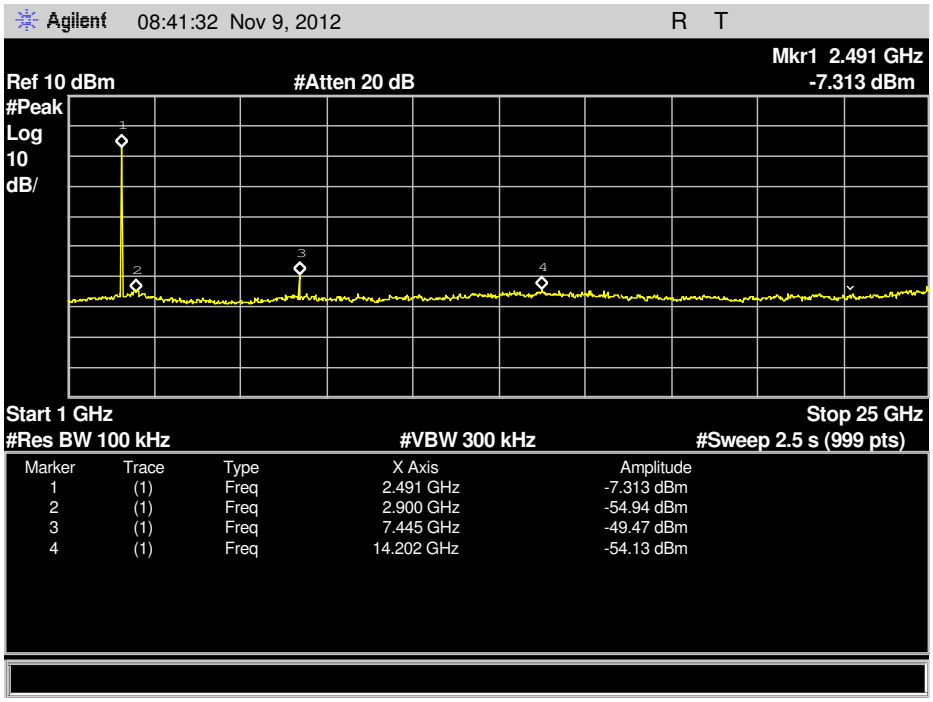
Middle Channel, above 1GHz



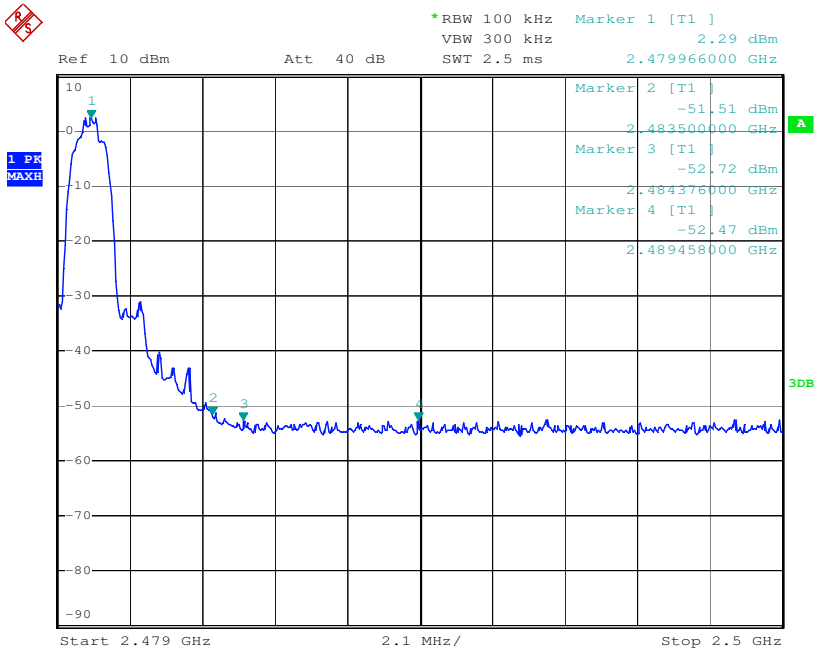
High Channel, below 1GHz



High Channel, above 1GHz



High Channel, Band Edge



Date: 13.NOV.2012 10:29:35

5.1.6 Spurious Emission

RESULT: **Passed**

Date of testing	:	2012-11-06 to 2012-11-09
Test standard	:	FCC part 15.247(d) FCC Part 15.205 RSS-210 Clause 2.2
Basic standard	:	ANSI C63.4: 2003
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) Refer to RSS-210 Table 2
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A, C
Ambient temperature	:	24℃
Relative humidity	:	48%
Atmospheric pressure	:	101 kPa

Remark:
During the pretest the EUT was rotated through threee 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.

5.1.7 Frequency Separation

RESULT: **Passed**

Date of testing	:	2012-11-12
Test standard	:	FCC part 15.247(a)(1) RSS-210 A8.1 (b)
Basic standard	:	ANSI C63.4: 2003
Limit	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater

Test setup

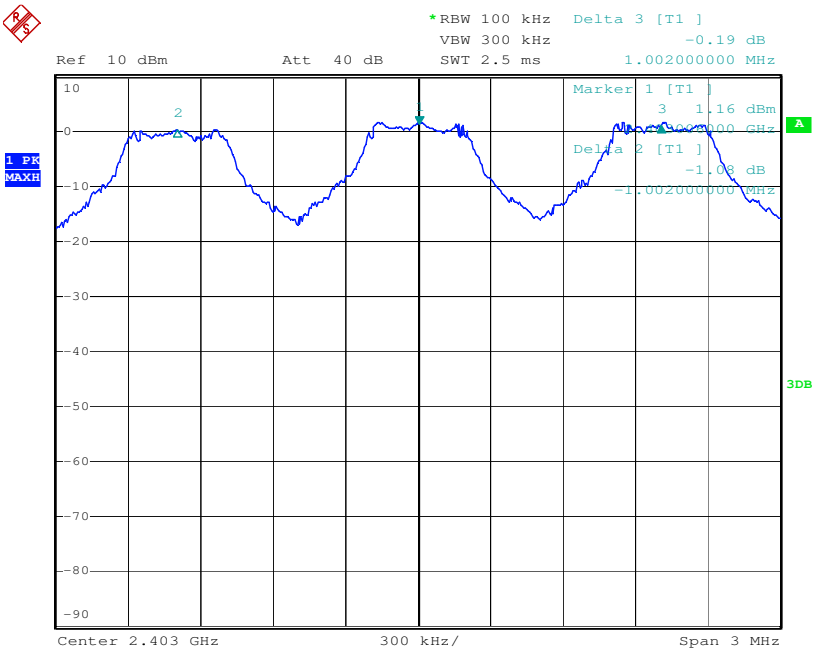
Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

Table 11: Test result of Frequency Separation

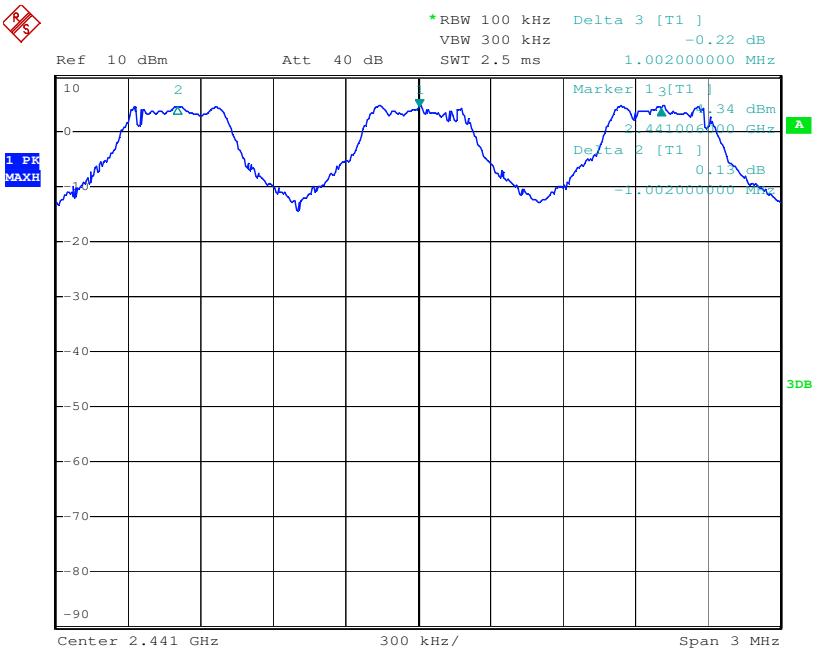
Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2479			

Test Plot of Frequency Separation

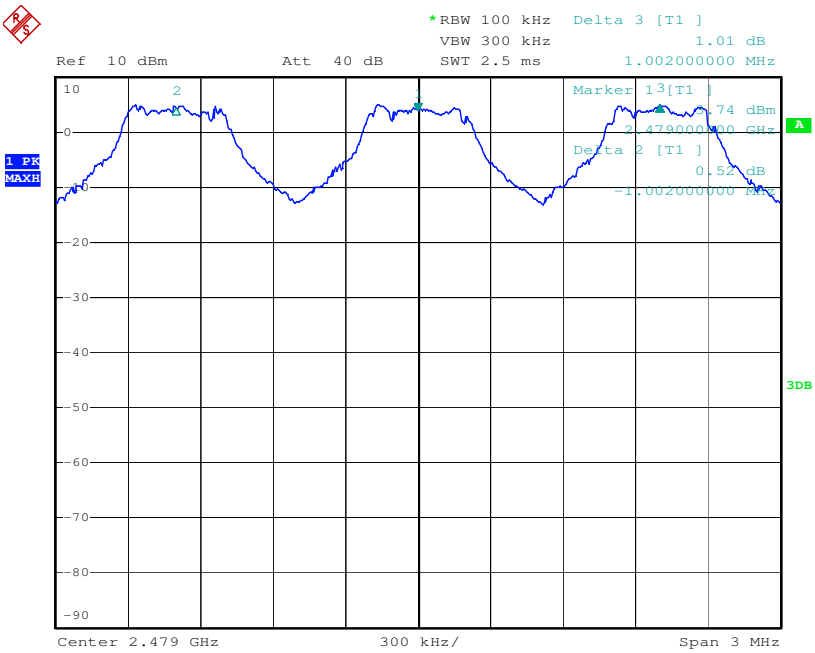
Low Channel



Middle Channel



High Channel



5.1.8 Number of hopping frequency

RESULT: **Passed**

Date of testing	:	2012-11-12
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-210 A8.1 (d)
Basic standard	:	ANSI C63.4: 2003
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

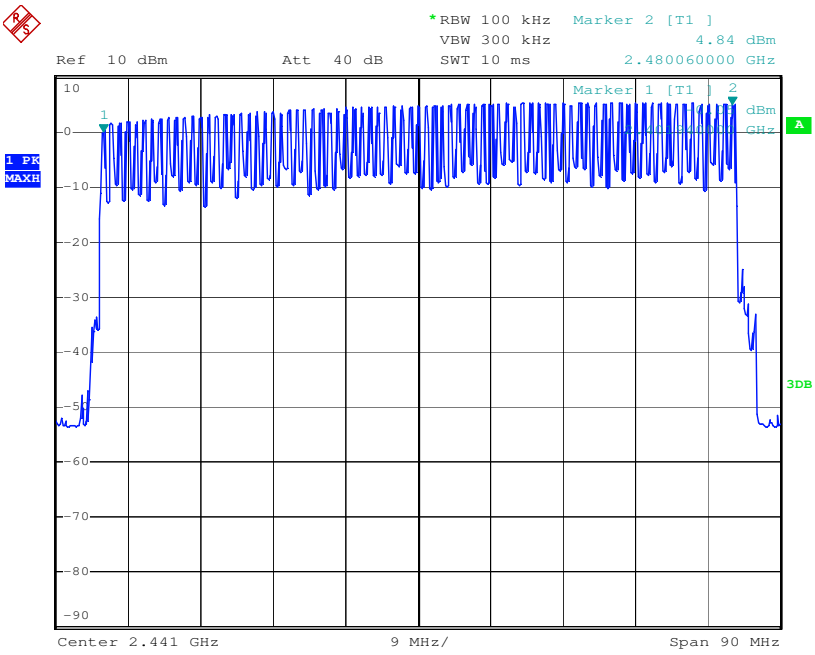
Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

Table 12: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	79	≥15	Pass

Test Plot of Number of hopping frequencies



5.1.9 Time of Occupancy

RESULT: **Passed**

Date of testing	:	2012-11-17
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-210 A8.1 (d)
Basic standard	:	ANSI C63.4: 2003
Limits	:	0.4s
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	20℃
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

Table 13: Test result of Time of Occupancy, GFSK modulation

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.45	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass
Mid Channel	DH1	0.45	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.87	0.41	0.4	Pass
High Channel	DH1	0.45	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass

Table 14: Test result of Time of Occupancy, 8DPSK modulation

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.45	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass
Mid Channel	DH1	0.45	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass
High Channel	DH1	0.46	0.15	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Passed**

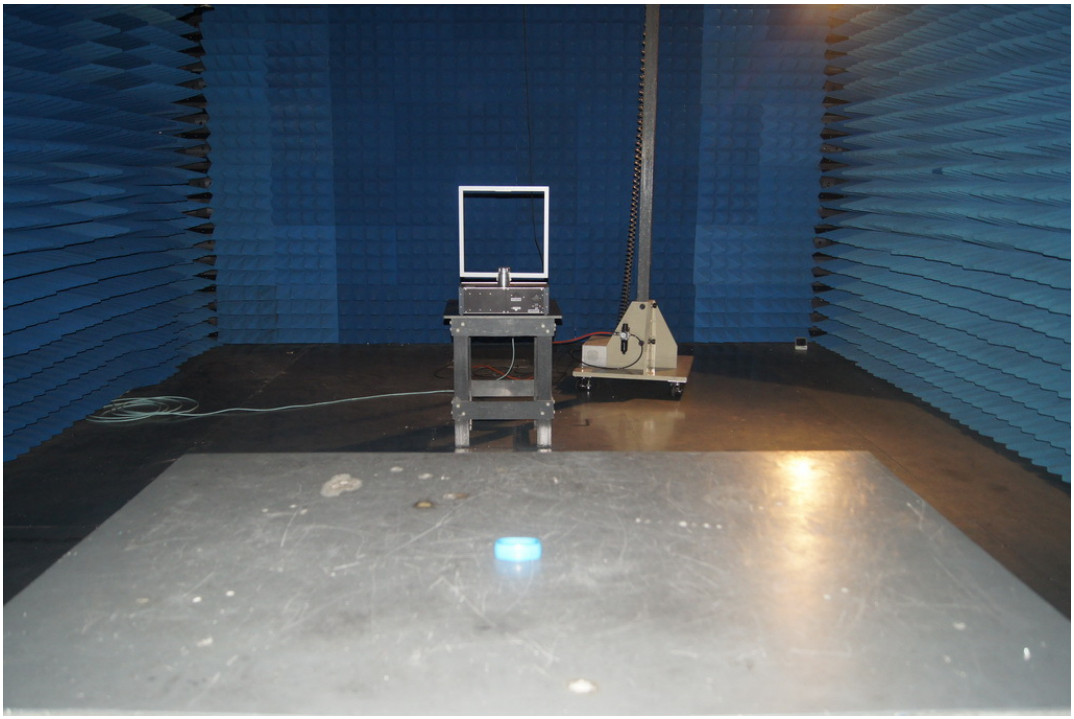
Test standard : RSS-102 Issue 4
FCC KDB Publication 447498

The maximum peak output power of the transmitter is 4.59mW only, which less than 20mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 4.

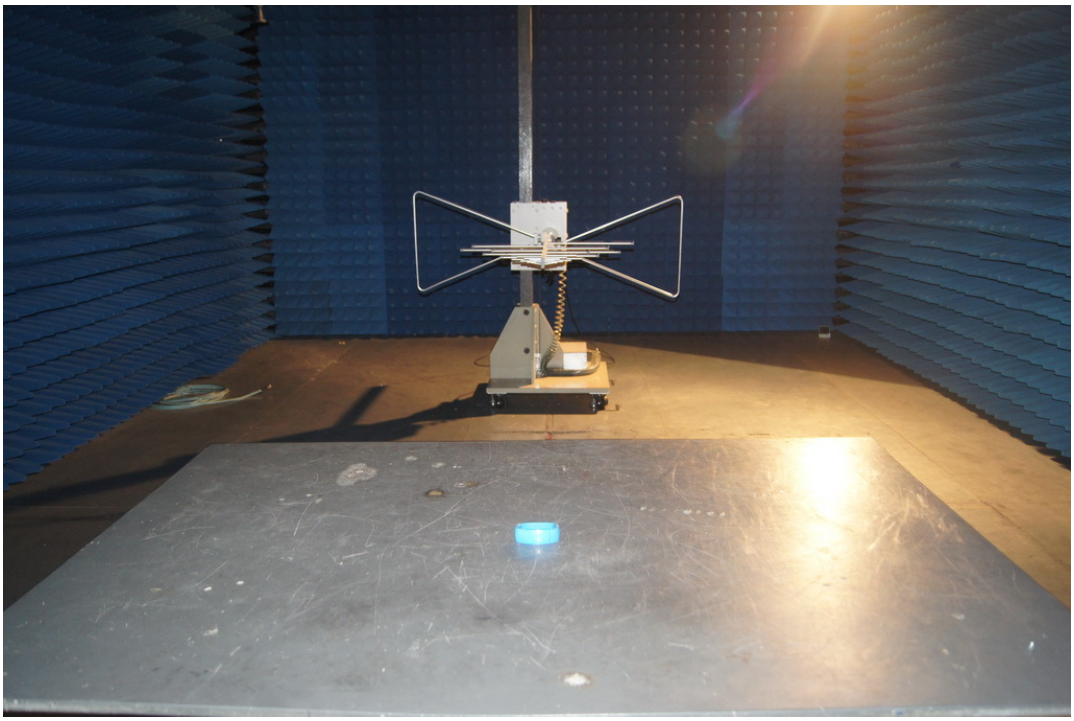
The minimum distance for the EUT is 5mm, since maximum peak output power of the transmitter is 4.59mW <10mW, hence the EUT is exclueded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure.Guidance v05.

7. Photographs of the Test Set-Up

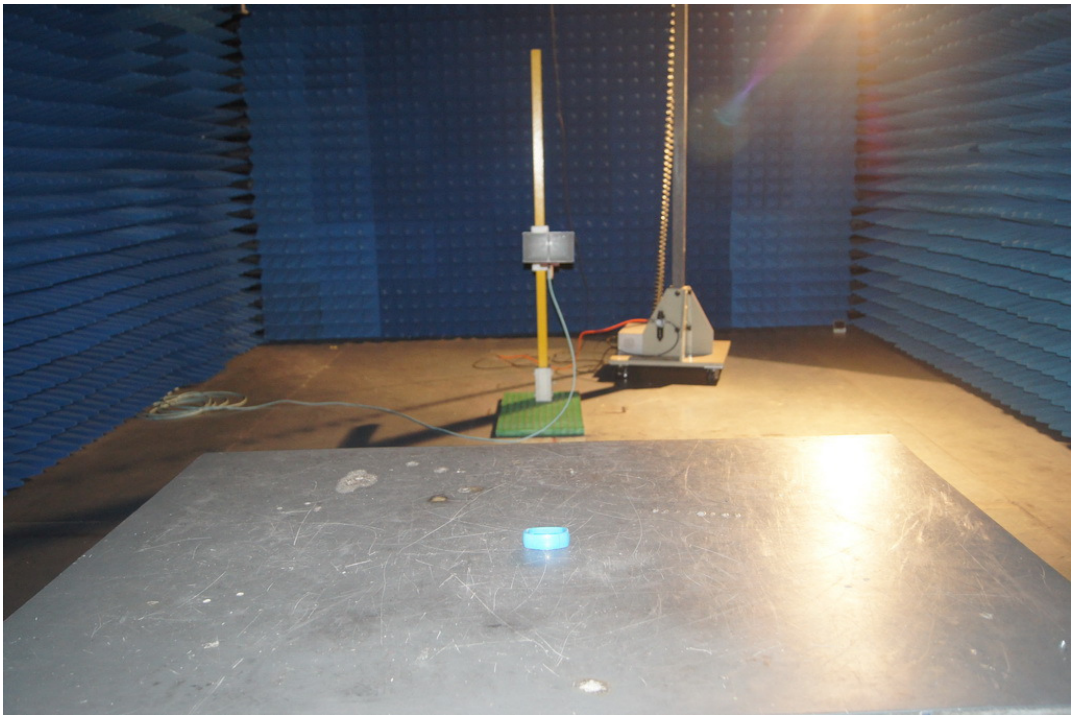
Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)



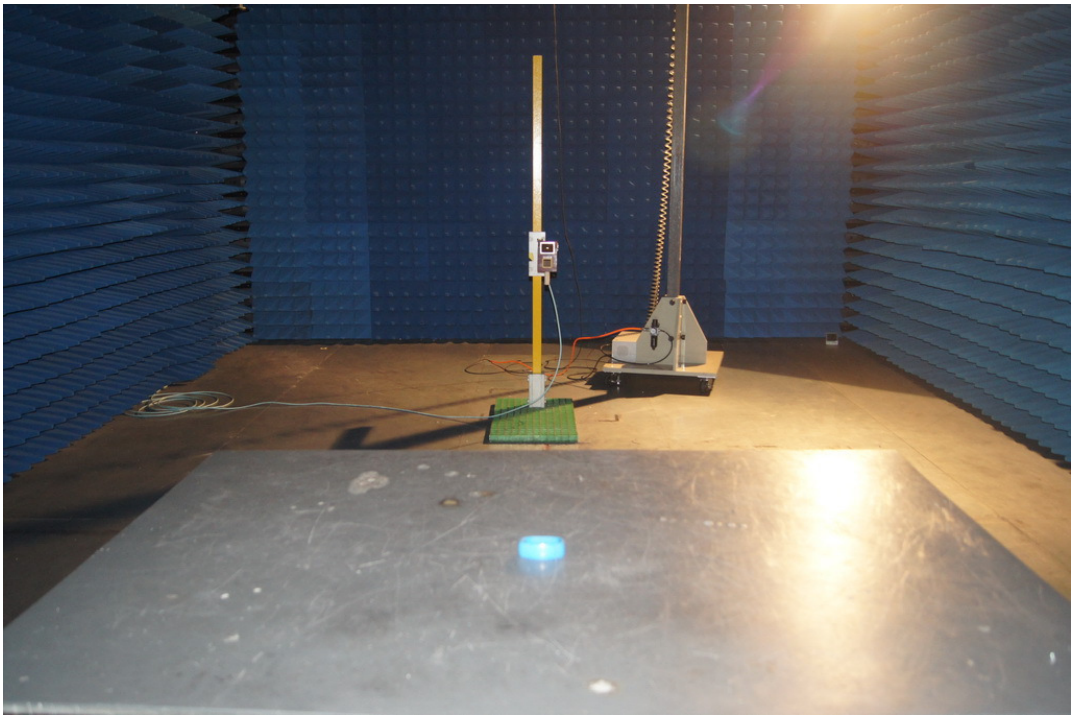
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)



Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz)



Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz)



8. List of Tables

9. List of Photographs

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

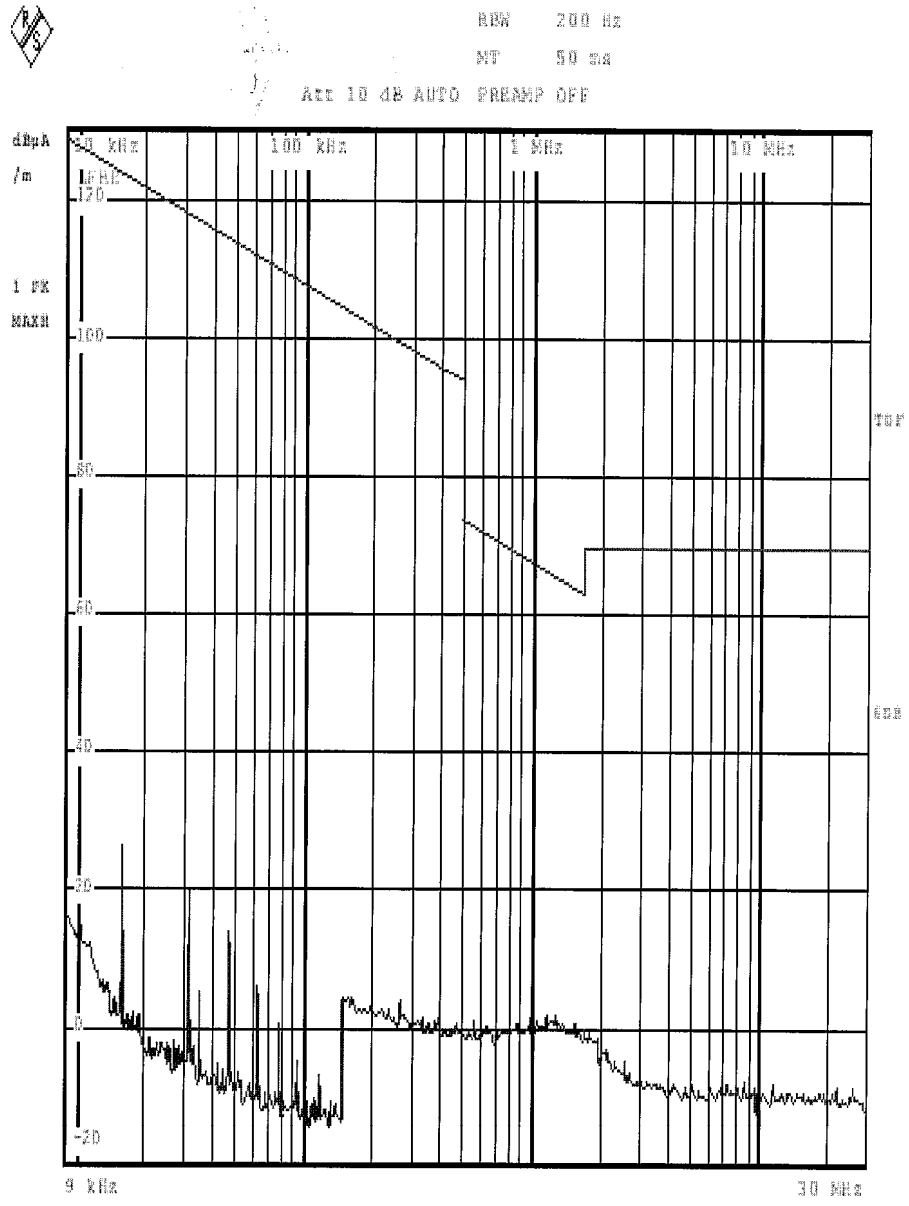
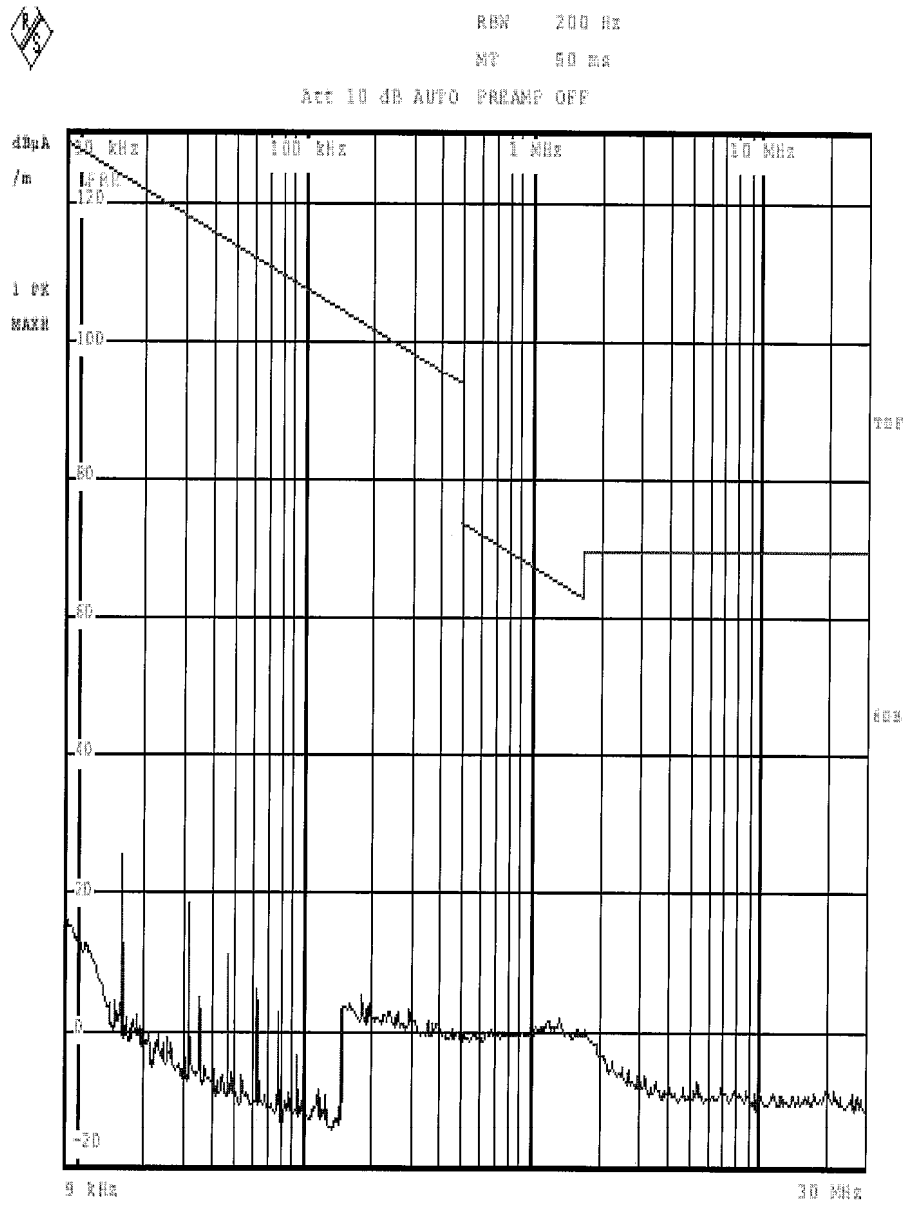


Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz), GFSK Modulation



Date: 8.NOV.2012 09:07:01

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

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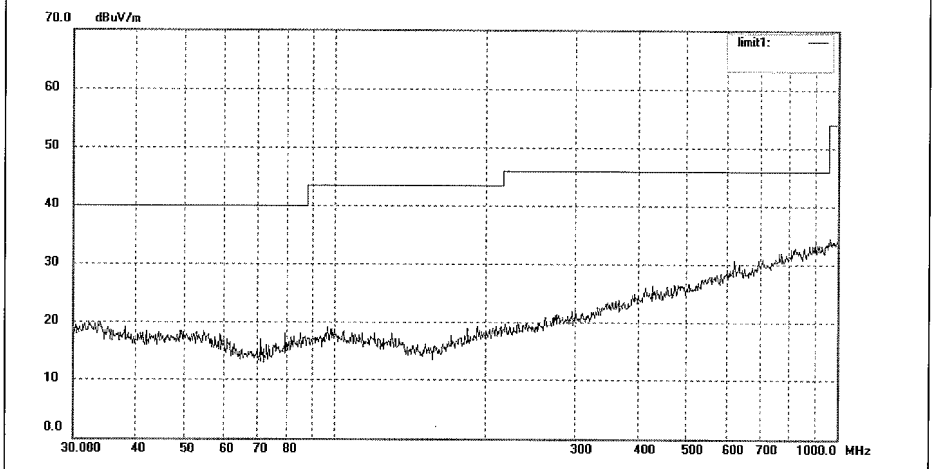
Job No.: PYH #426	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/07/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 13/34/22
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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

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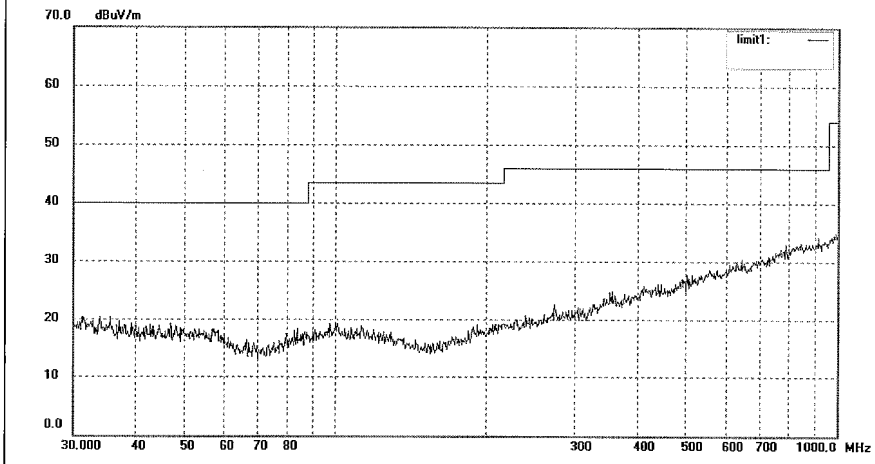
Fax:+86-0755-26503396

Job No.: PYH #427	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 7/56/38
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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

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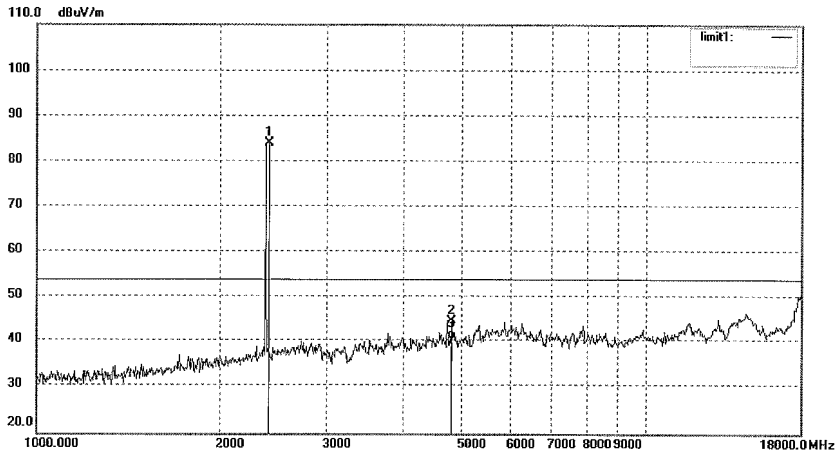
Fax:+86-0755-26503396

Job No.: PYH #363	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/25/40
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



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	91.35	-7.45	83.90	54.00	29.90	peak			
2	4804.015	45.21	-0.30	44.91	54.00	-9.09	peak			
3	4804.015	41.05	-0.30	40.75	54.00	-13.25	AVG			

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

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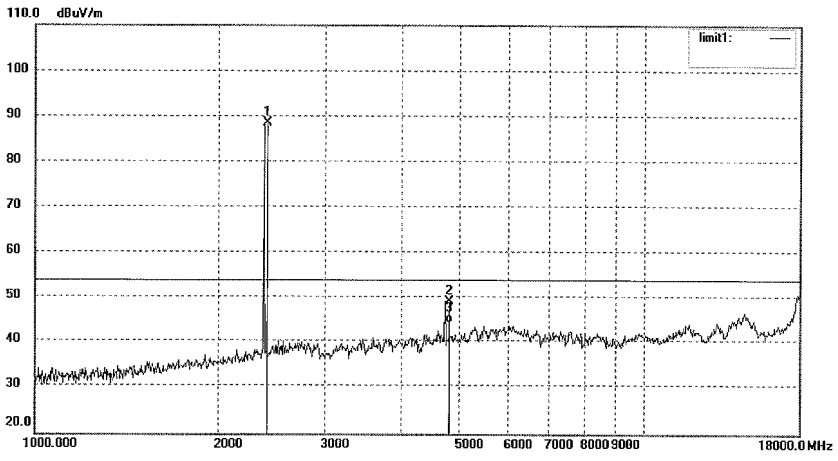
Fax:+86-0755-26503396

Job No.: PYH #362	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/12/54
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.009	95.99	-7.45	88.54	54.00	34.54	peak			
2	4804.017	49.73	-0.30	49.43	54.00	-4.57	peak			
3	4804.017	45.00	-0.30	44.70	54.00	-9.30	AVG			

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

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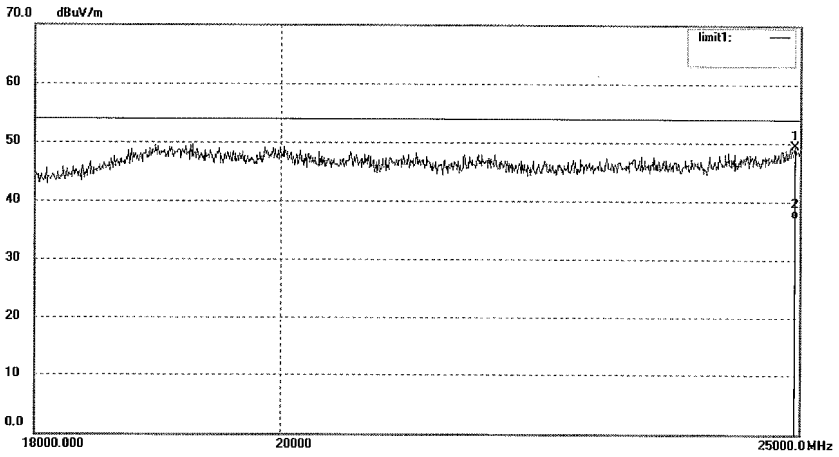
Fax:+86-0755-26503396

Job No.: PYH #455	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/06/38
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24950.674	30.67	18.83	49.50	54.00	-4.50	peak			
2	24950.674	18.28	18.83	37.11	54.00	-16.89	AVG			

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

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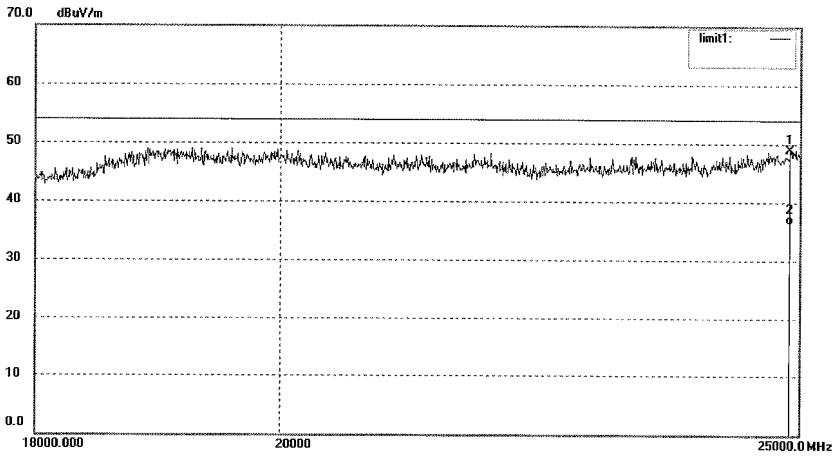
Fax:+86-0755-26503396

Job No.: PYH #456	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/18/42
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24901.446	30.16	18.76	48.92	54.00	-5.08	peak			
2	24901.446	17.59	18.76	36.35	54.00	-17.65	AVG			

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

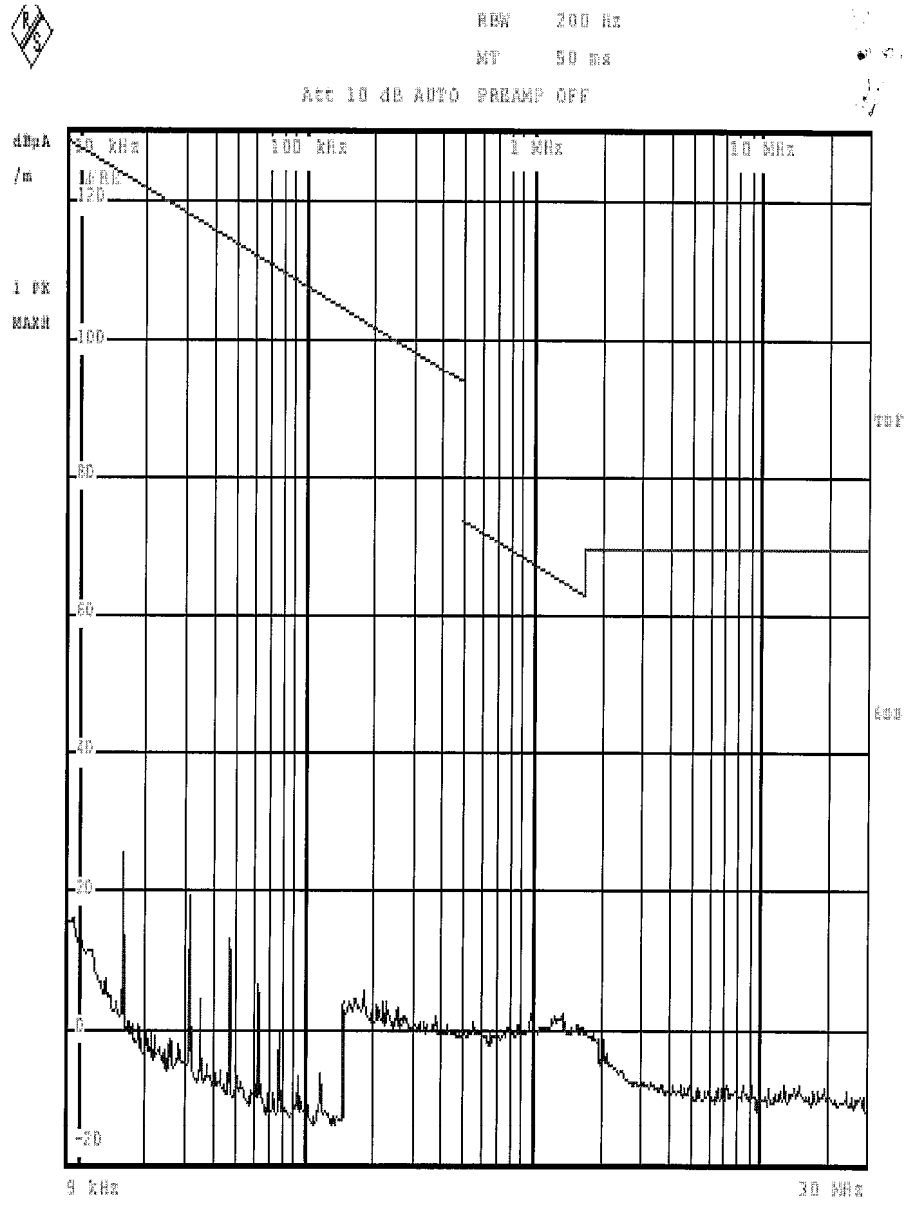
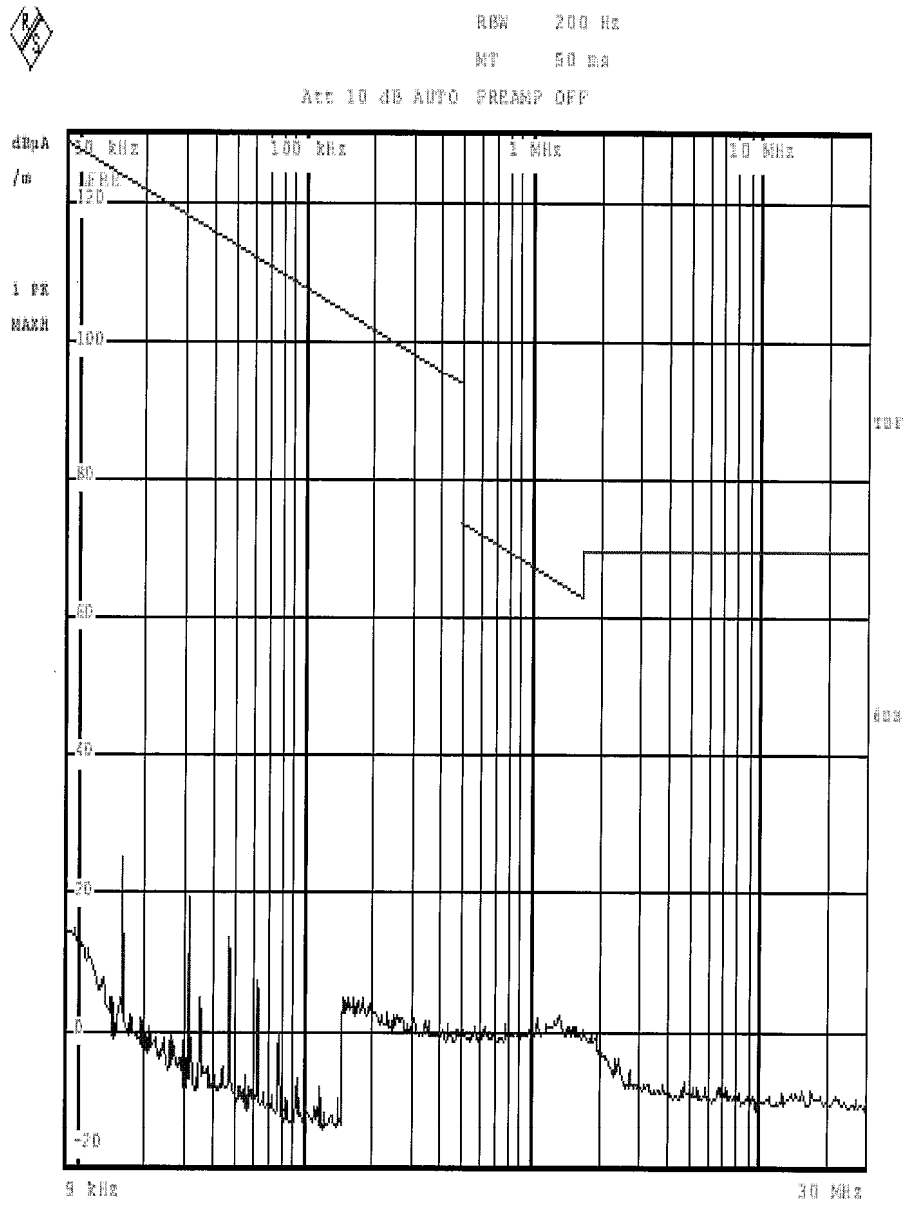


Figure 10: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz), GFSK Modulation



Date: 8.NOV.2012 09:13:03

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

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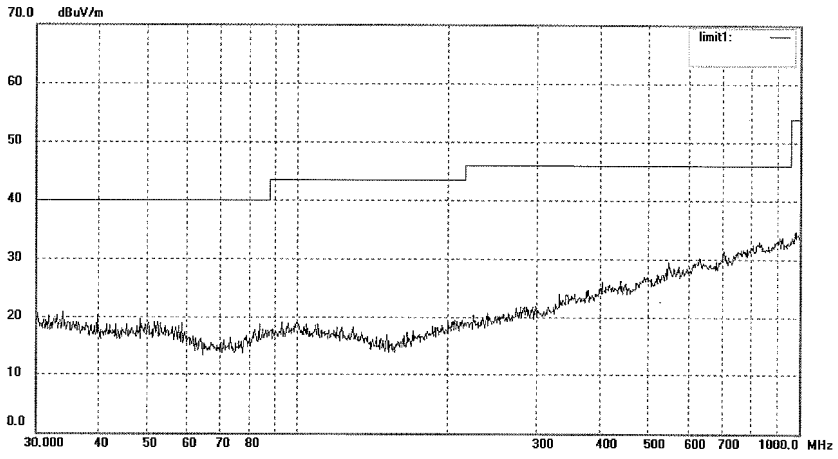
Fax:+86-0755-26503396

Job No.: PYH #429	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/15/54
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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

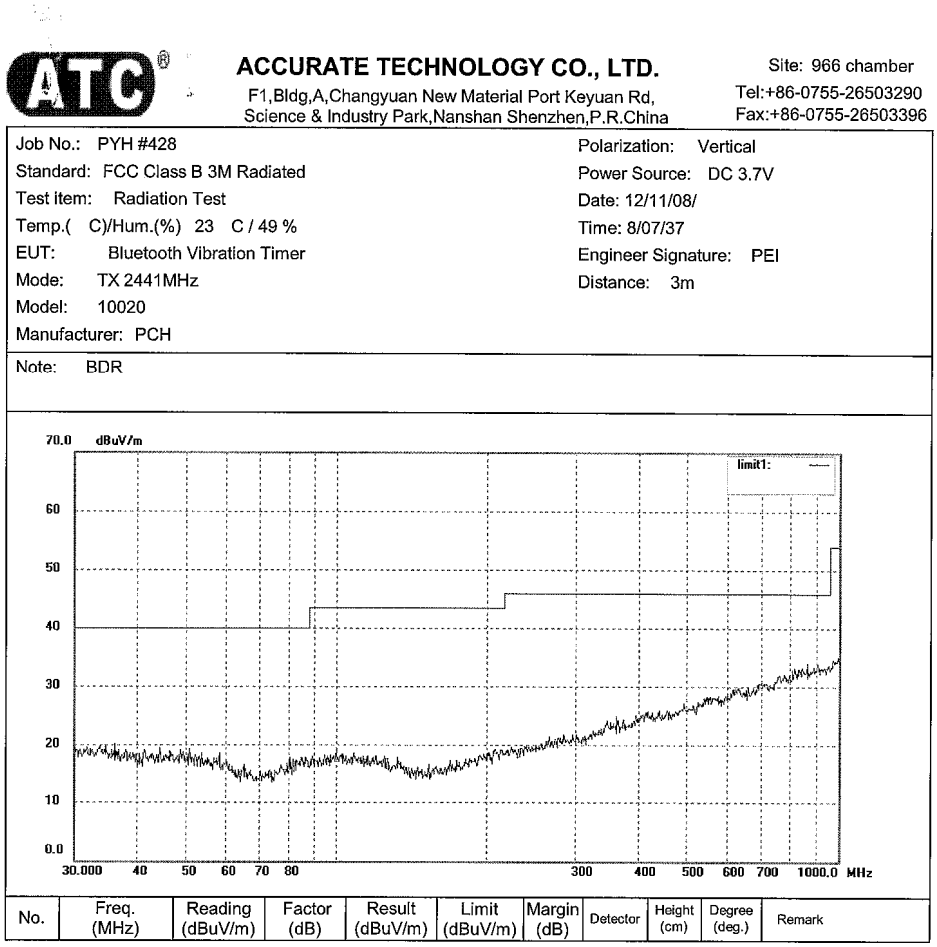


Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), GFSK Modulation

ACCURATE TECHNOLOGY CO., LTD.
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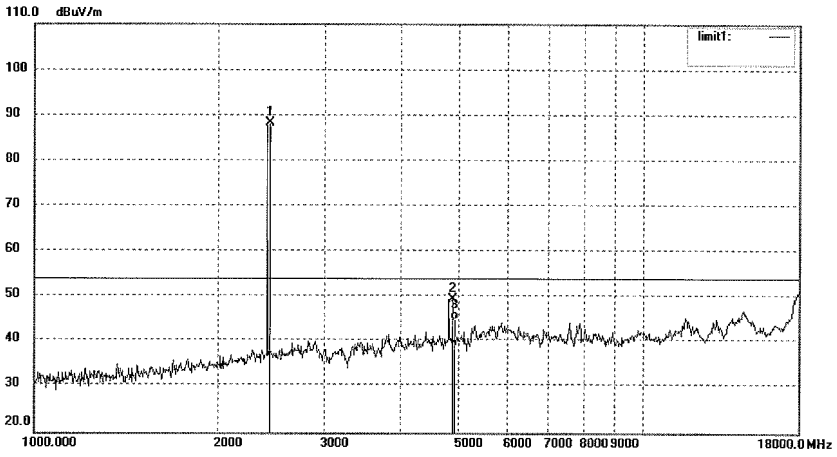
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #367
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth Vibration Timer
Mode: TX 2441MHz
Model: 10020
Manufacturer: PCH

Polarization: Horizontal
Power Source: DC 3.7V
Date: 12/11/06/
Time: 9/10/38
Engineer Signature: PEI
Distance: 3m

Note: BDR



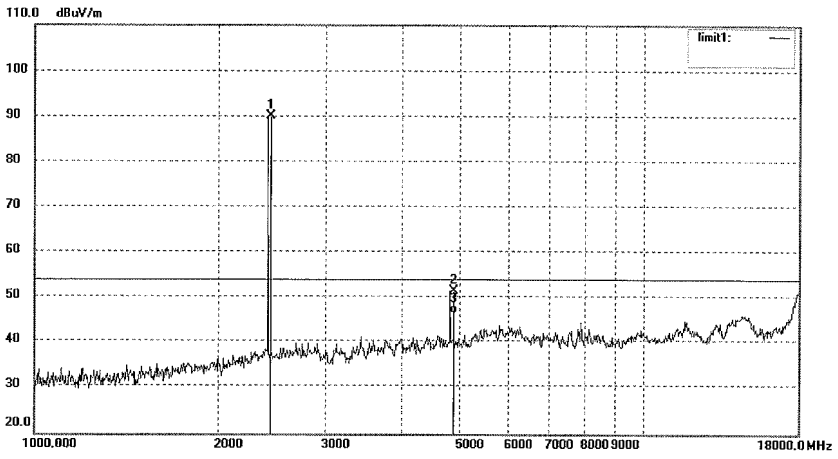
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.021	95.59	-7.35	88.24	54.00	34.24	peak			
2	4882.025	49.40	0.14	49.54	54.00	-4.46	peak			
3	4882.025	44.98	0.14	45.12	54.00	-8.88	AVG			

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

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #366	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/58/25
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.018	97.35	-7.35	90.00	54.00	36.00	peak			
2	4882.024	51.42	0.14	51.56	54.00	-2.44	peak			
3	4882.024	46.58	0.14	46.72	54.00	-7.28	AVG			

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

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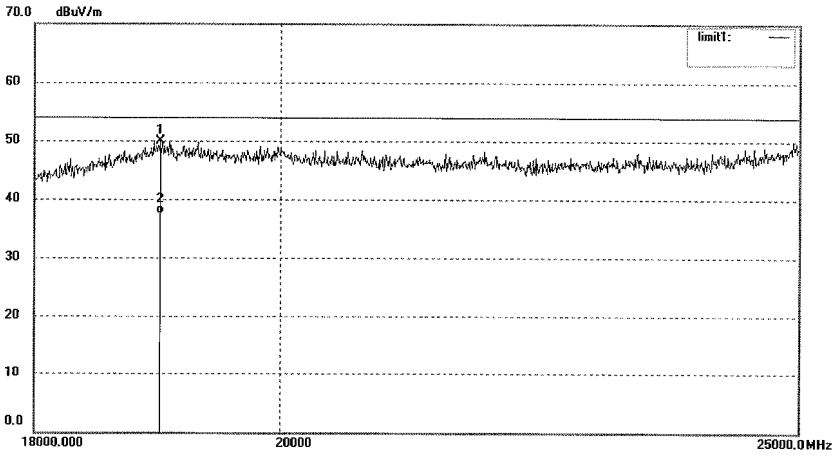
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #458	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/36/33
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	18998.393	29.86	20.09	49.95	54.00	-4.05	peak			
2	18998.393	17.38	20.09	37.47	54.00	-16.53	AVG			

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

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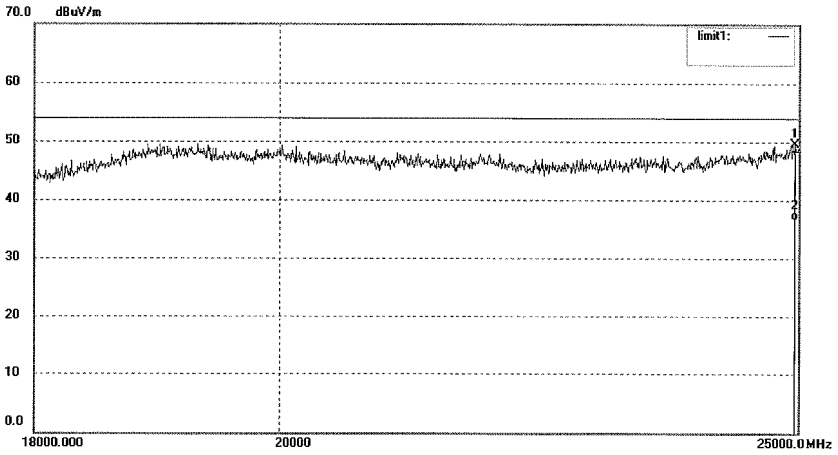
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

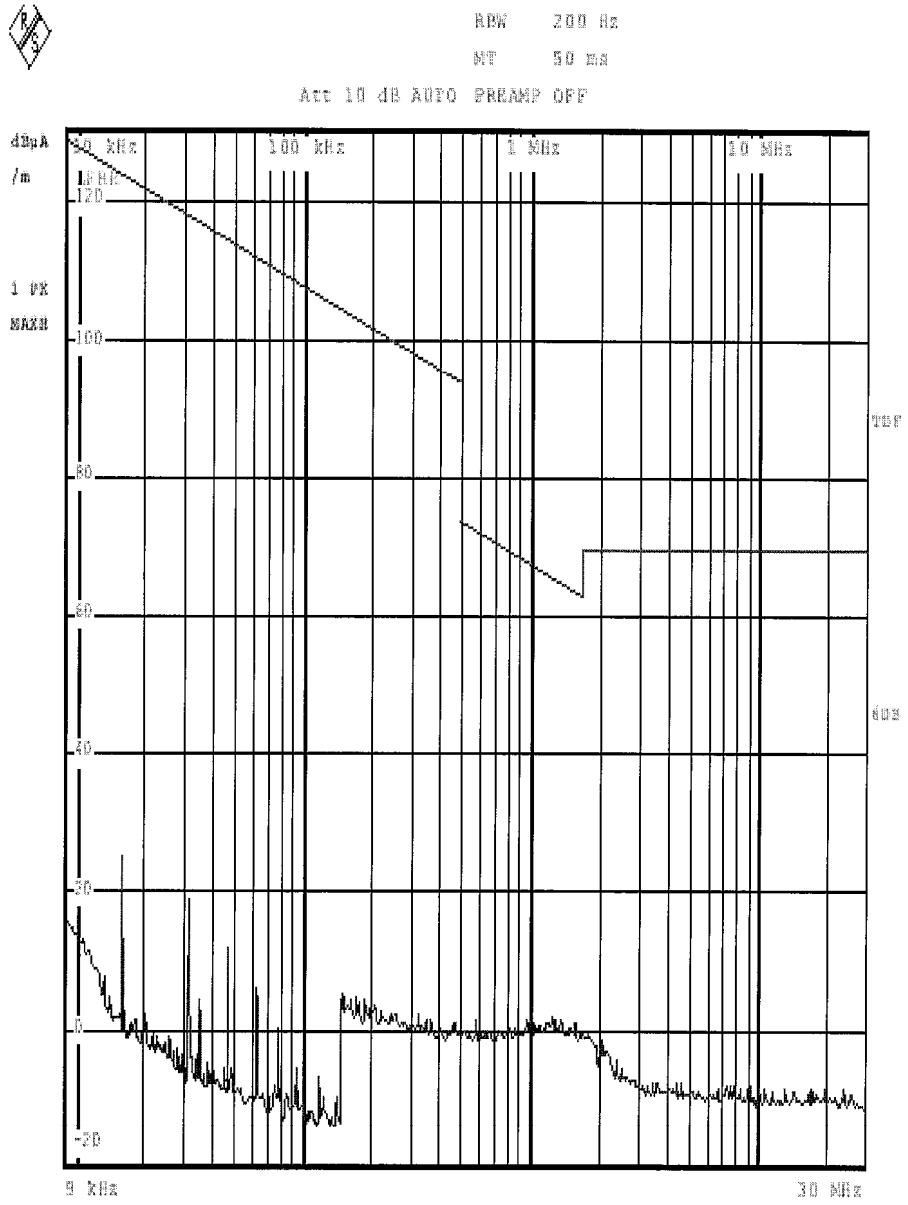
Job No.: PYH #457	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/25/30
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24967.105	30.77	18.85	49.62	54.00	-4.38	peak			
2	24967.105	17.86	18.85	36.71	54.00	-17.29	AVG			

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



Date: 8.NOV.2012 09:16:59

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

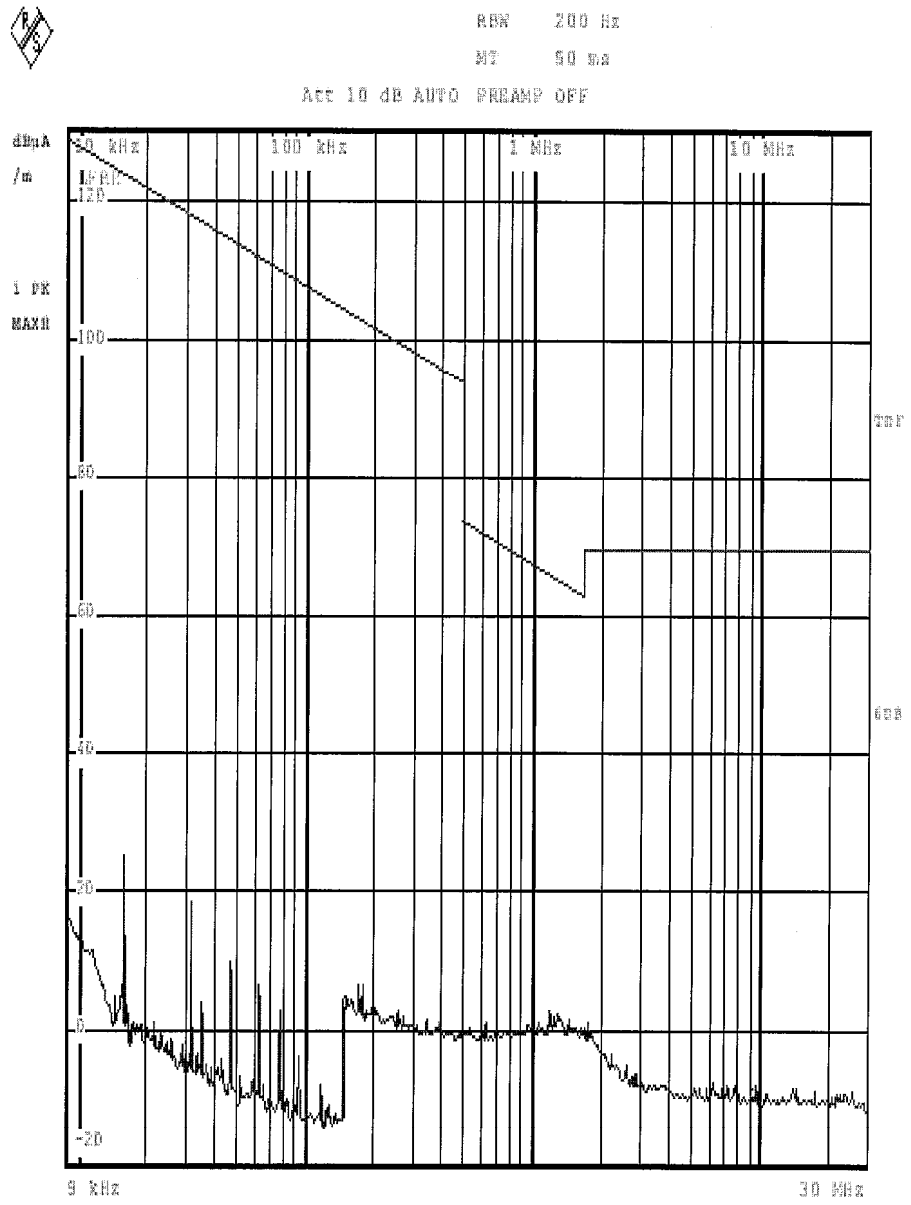


Figure 19: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz), GFSK Modulation

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ACCURATE TECHNOLOGY CO., LTD.
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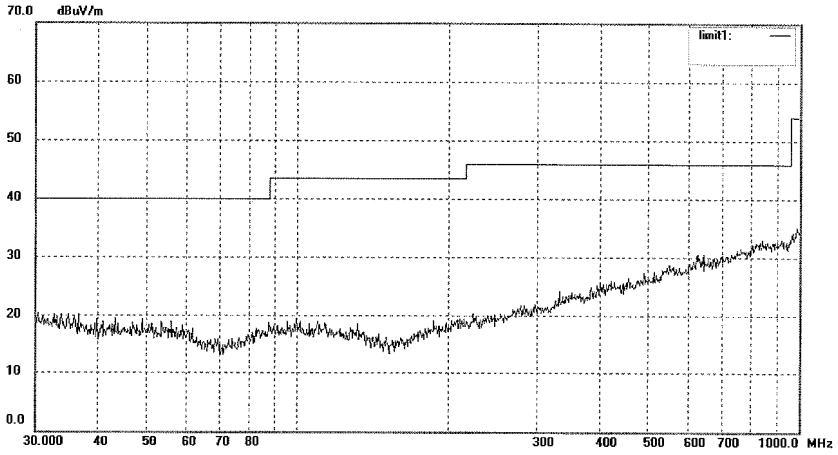
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #430	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test Item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/24/55
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



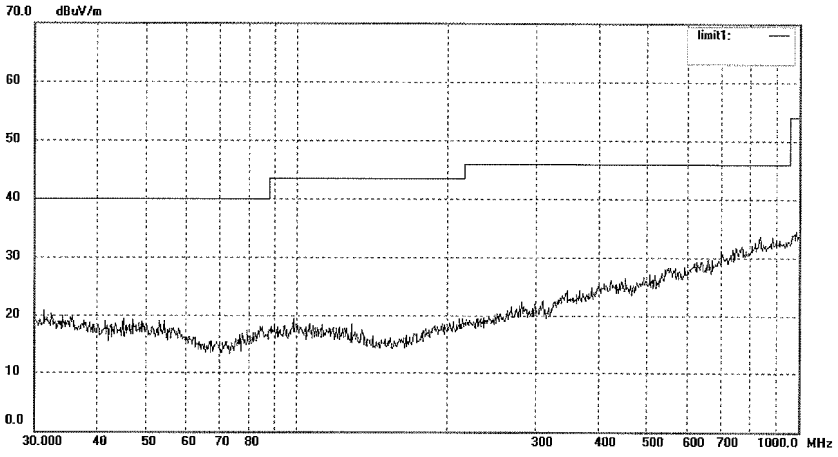
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #431	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/36/07
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



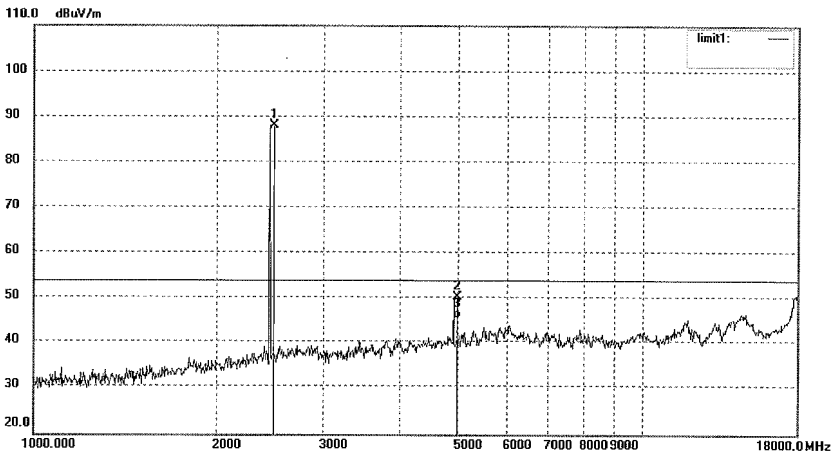
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #368	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/23/36
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.014	95.42	-7.37	88.05	54.00	34.05	peak			
2	4960.070	49.89	0.52	50.41	54.00	-3.59	peak			
3	4960.070	45.25	0.52	45.77	54.00	-8.23	AVG			

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

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
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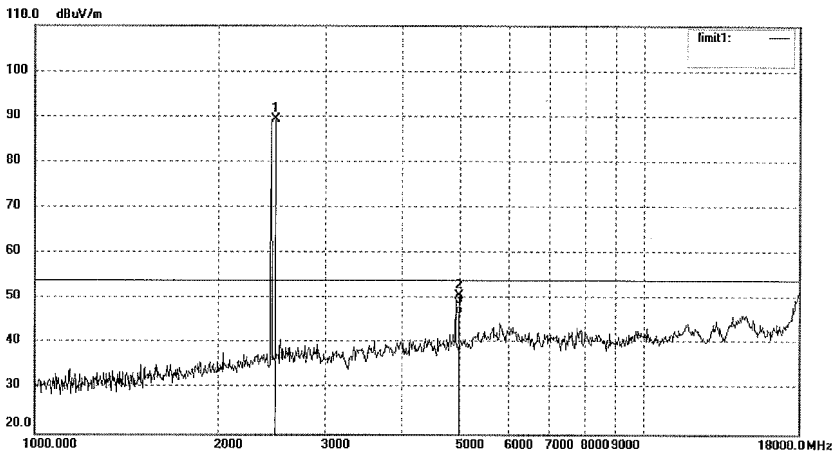
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #369	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/35/43
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.004	96.76	-7.37	89.39	54.00	35.39	peak			
2	4959.998	50.13	0.52	50.65	54.00	-3.35	peak			
3	4959.998	46.05	0.52	46.57	54.00	-7.43	AVG			

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

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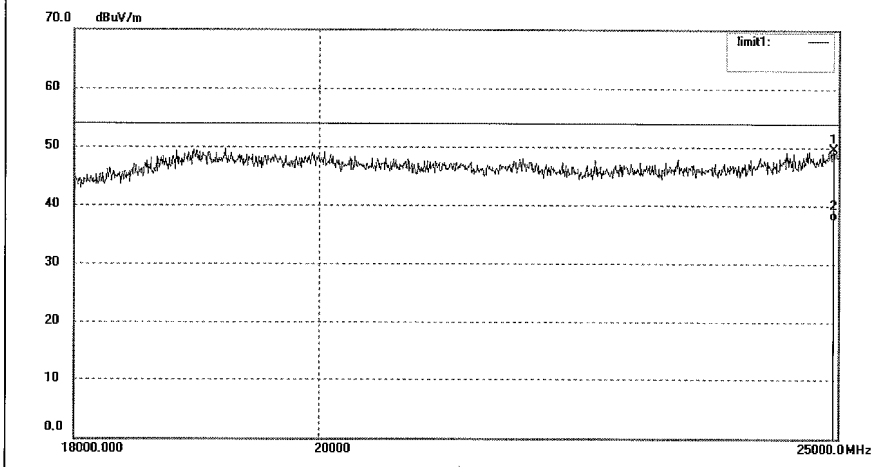
Fax:+86-0755-26503396

Job No.: PYH #459	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/45/19
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



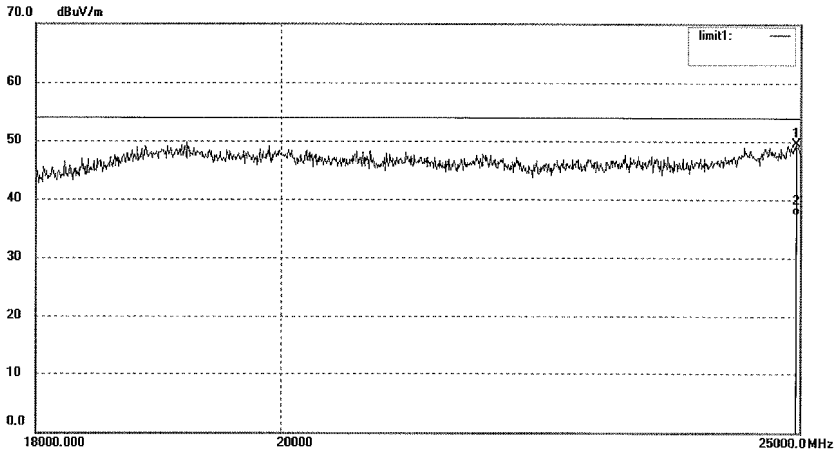
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24950.674	30.74	18.83	49.57	54.00	-4.43	peak			
2	24950.674	18.75	18.83	37.58	54.00	-16.42	AVG			

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

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #460	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/53/25
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24958.889	30.86	18.84	49.70	54.00	-4.30	peak			
2	24958.889	18.56	18.84	37.40	54.00	-16.60	AVG			

Figure 25: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

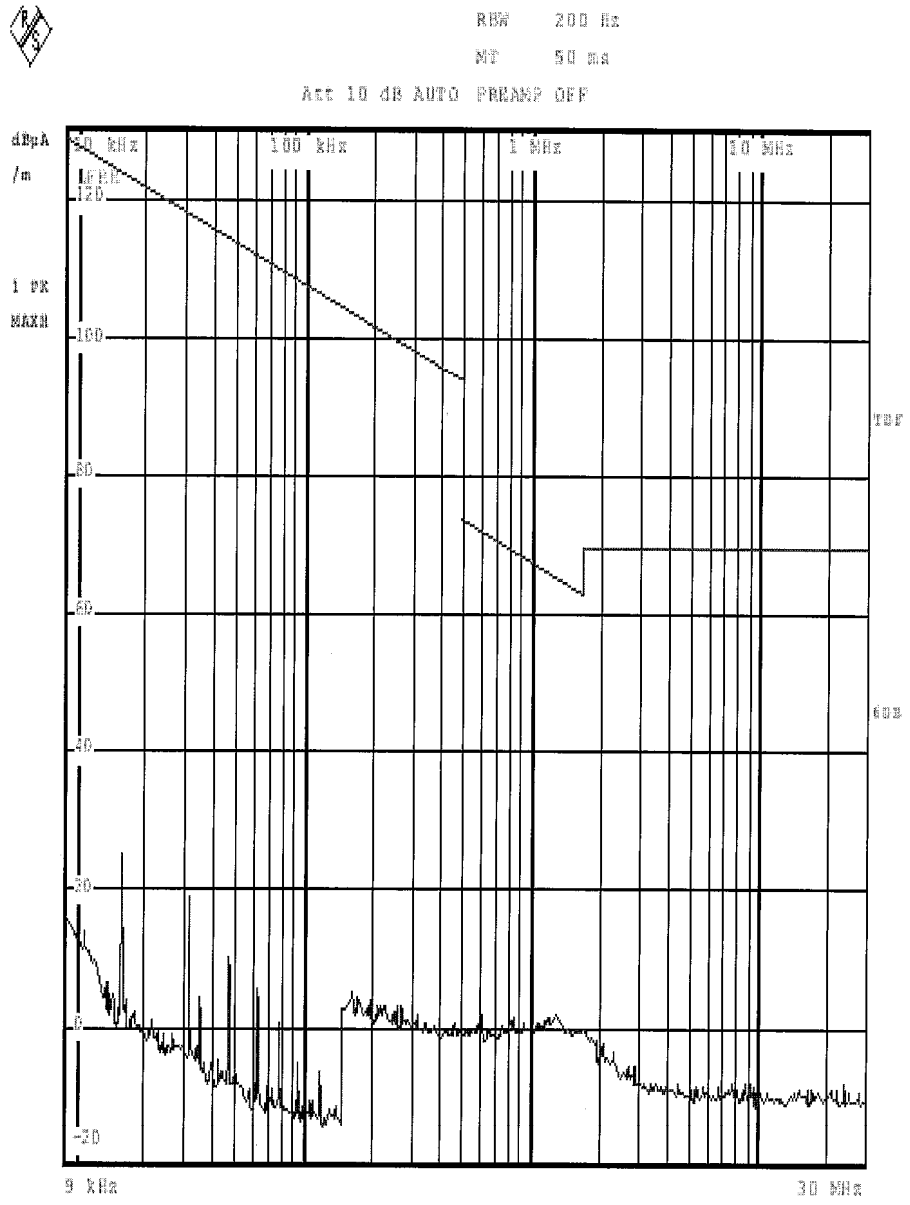


Figure 26: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation

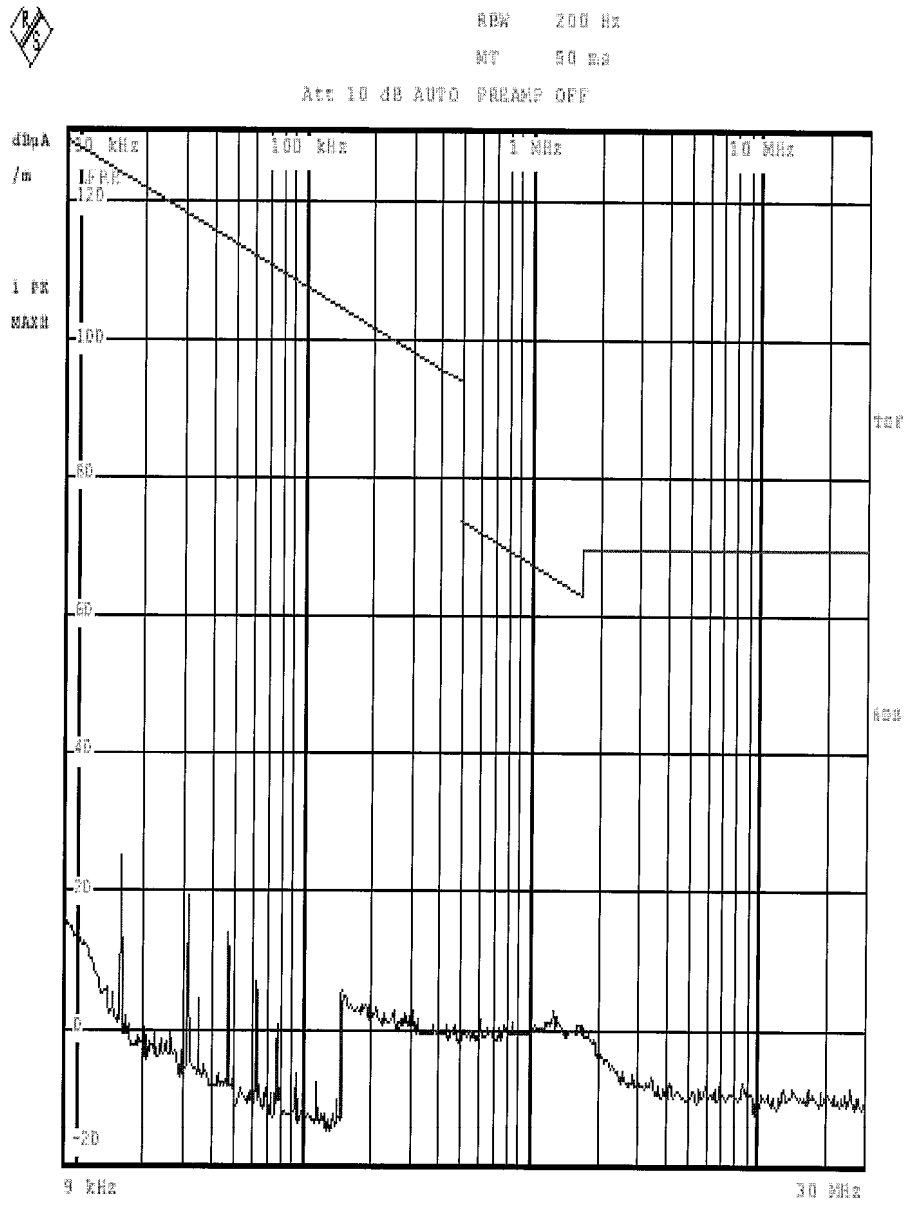


Figure 27: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation

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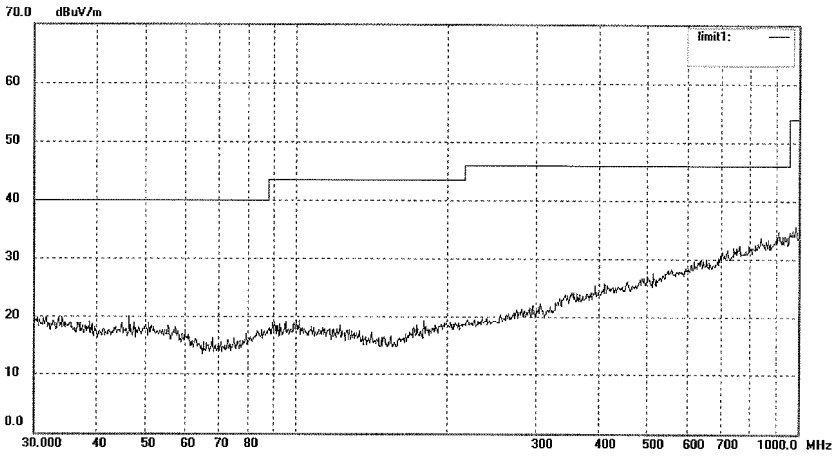
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #433	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/54/05
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 28: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation

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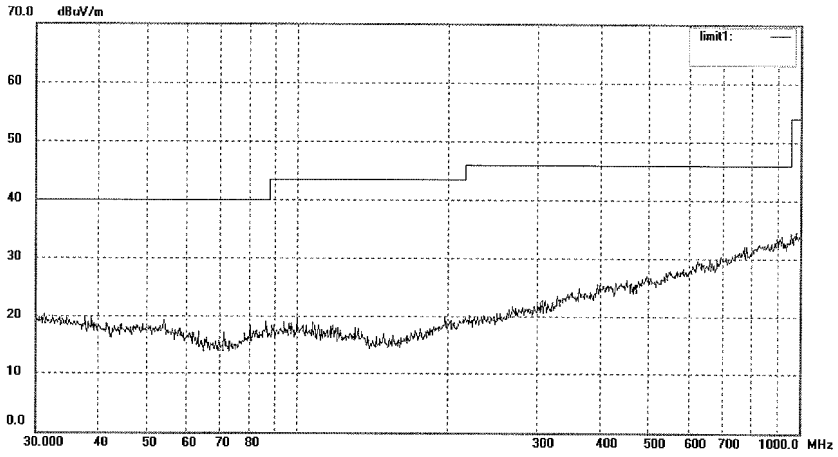
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #432	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/45/38
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 29: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

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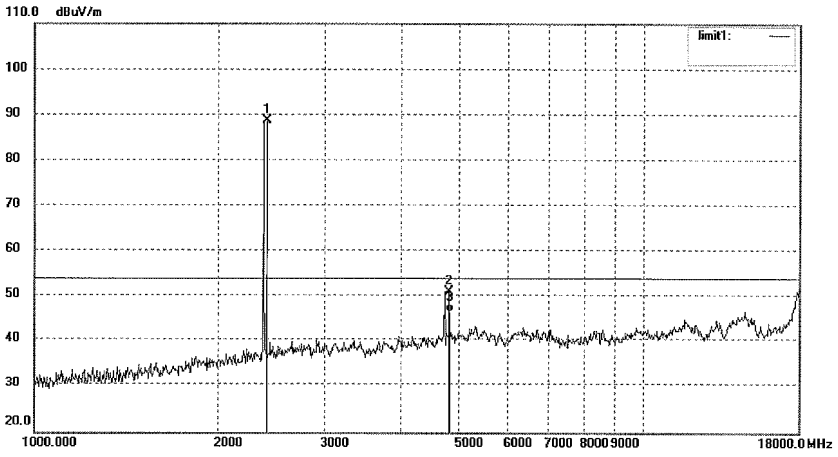
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #372	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/09/53
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



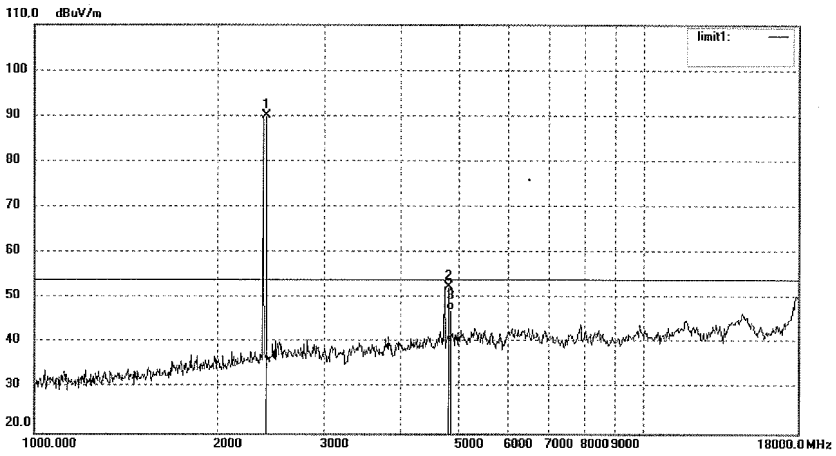
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.019	96.30	-7.45	88.85	54.00	34.85	peak			
2	4804.037	51.47	-0.30	51.17	54.00	-2.83	peak			
3	4804.037	46.88	-0.30	46.58	54.00	-7.42	AVG			

Figure 30: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #373	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/21/08
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2401.991	97.45	-7.45	90.00	54.00	36.00	peak			
2	4801.987	52.87	-0.30	52.57	54.00	-1.43	peak			
3	4801.987	47.65	-0.30	47.35	54.00	-6.65	AVG			

Figure 31: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz –25GHz), 8DPSK Modulation

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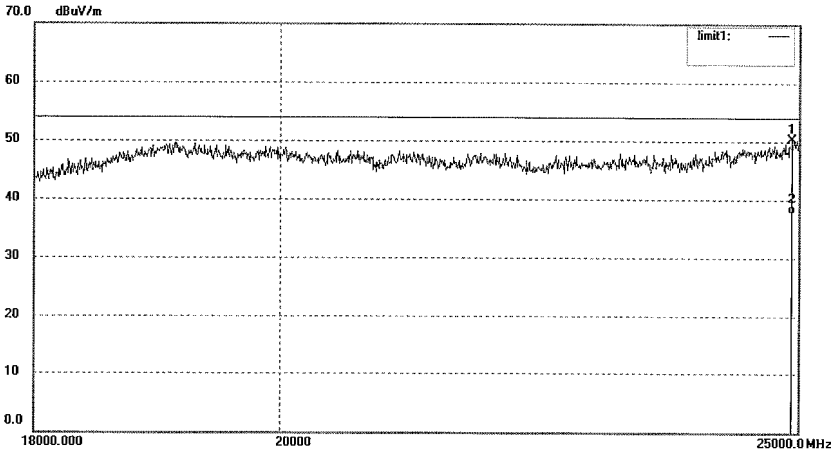
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #461	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/01/09
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24934.254	31.52	18.81	50.33	54.00	-3.67	peak			
2	24934.254	18.95	18.81	37.76	54.00	-16.24	AVG			

Figure 32: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 25GHz), 8DPSK Modulation

ATC®
ACCURATE TECHNOLOGY CO., LTD.
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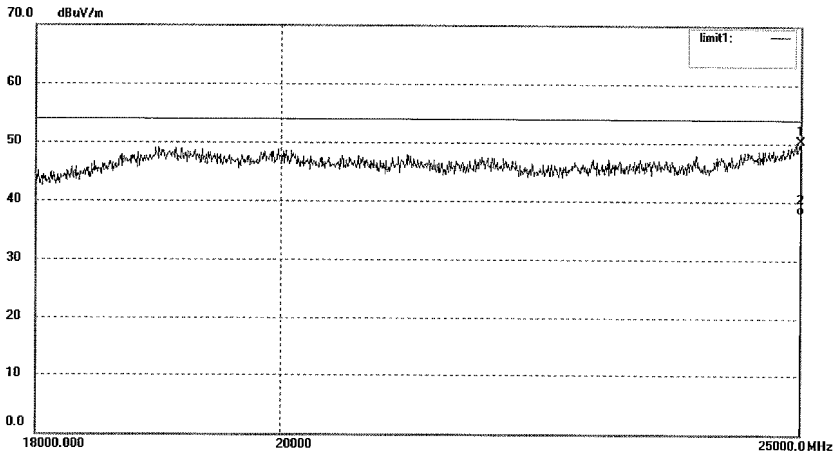
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

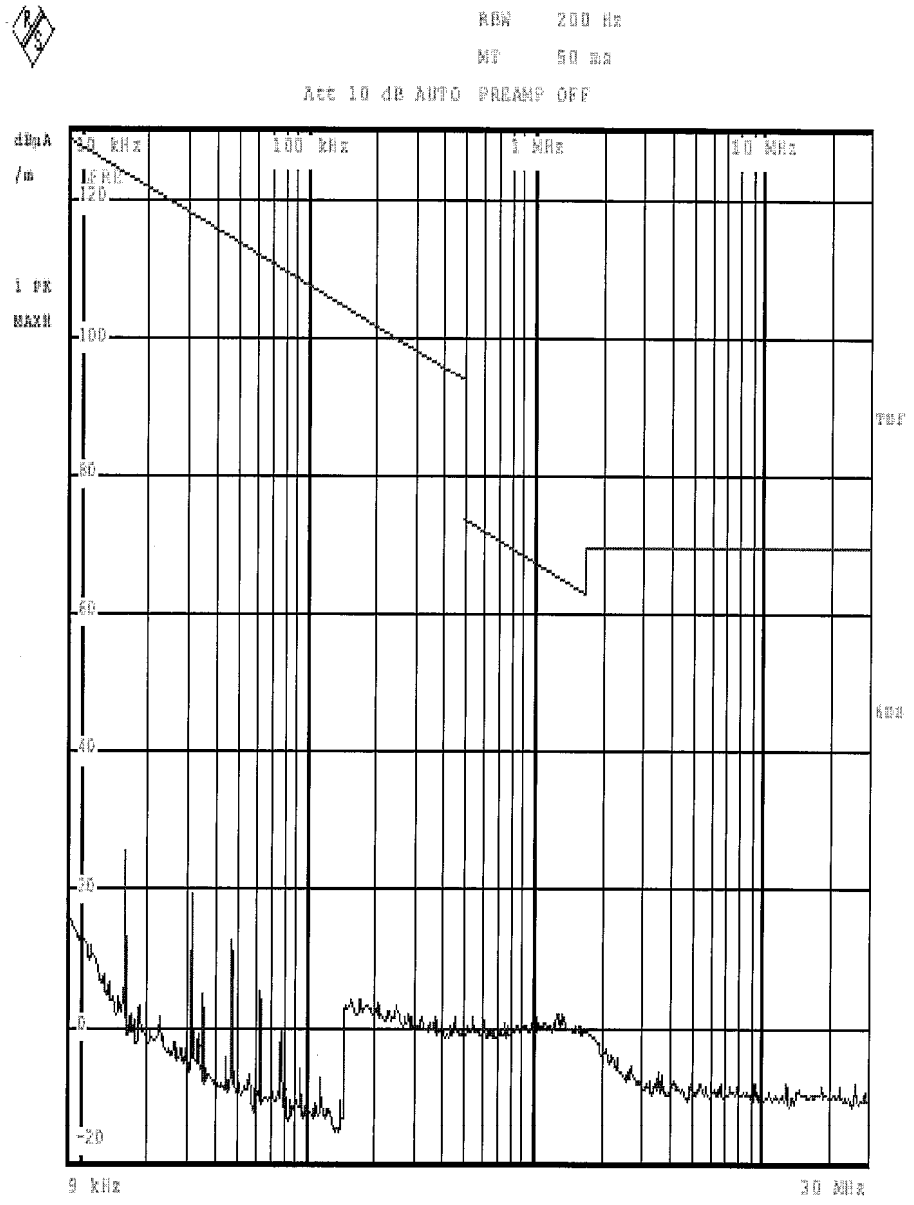
Job No.: PYH #462	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/10/43
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



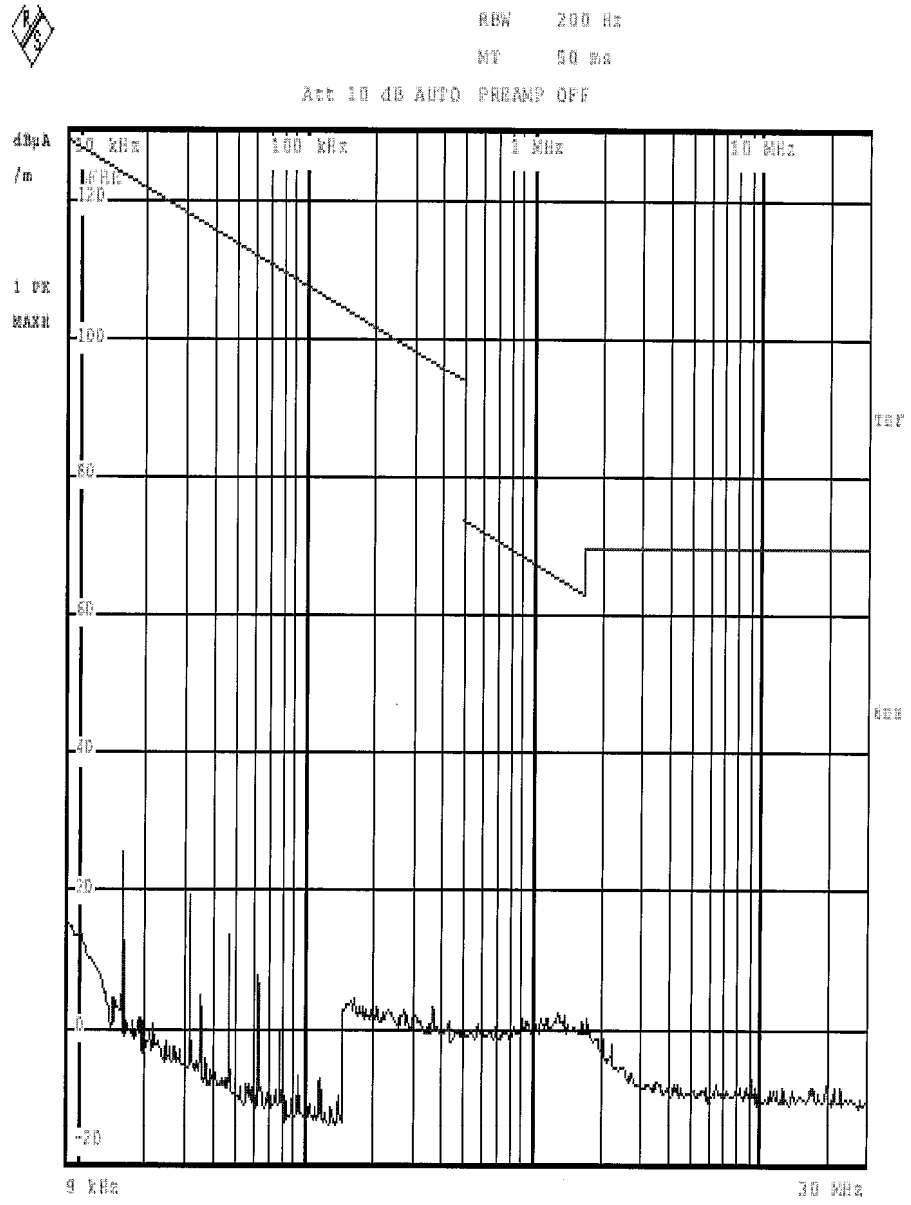
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25000.000	31.38	18.90	50.28	54.00	-3.72	peak			
2	25000.000	19.00	18.90	37.90	54.00	-16.10	AVG			

Figure 33: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation



Date: 8.NOV.2012 09:29:30

Figure 34: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation



Date: 8.NOV.2012 09:31:33

Figure 35: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation

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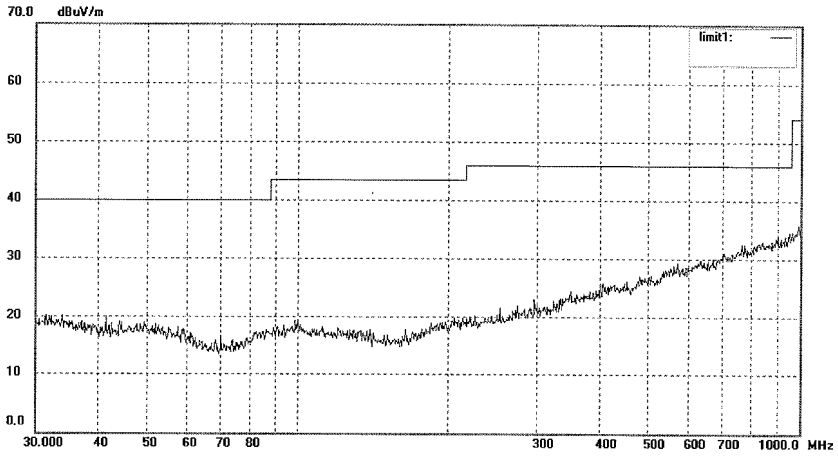
Fax:+86-0755-26503396

Job No.: PYH #434	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/06/09
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 36: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GMHz), 8DPSK Modulation

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Science & Industry Park,Nanshan Shenzhen,P.R.China
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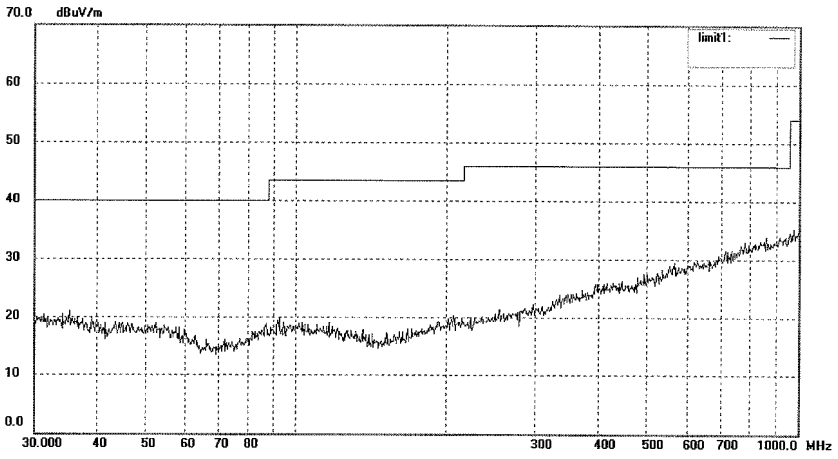
Fax:+86-0755-26503396

Job No.: PYH #435	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/17/32
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 37: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation

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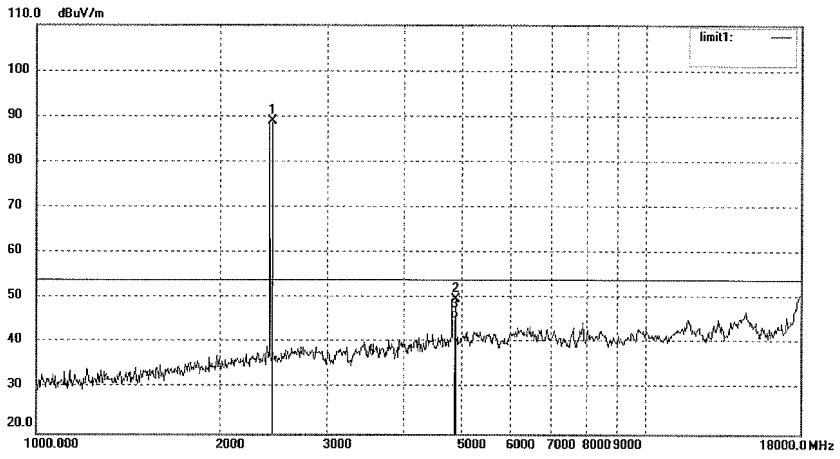
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #376	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/57/53
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.021	96.42	-7.35	89.07	54.00	35.07	peak			
2	4881.974	49.70	0.14	49.84	54.00	-4.16	peak			
3	4881.974	45.32	0.14	45.46	54.00	-8.54	AVG			

Figure 38: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

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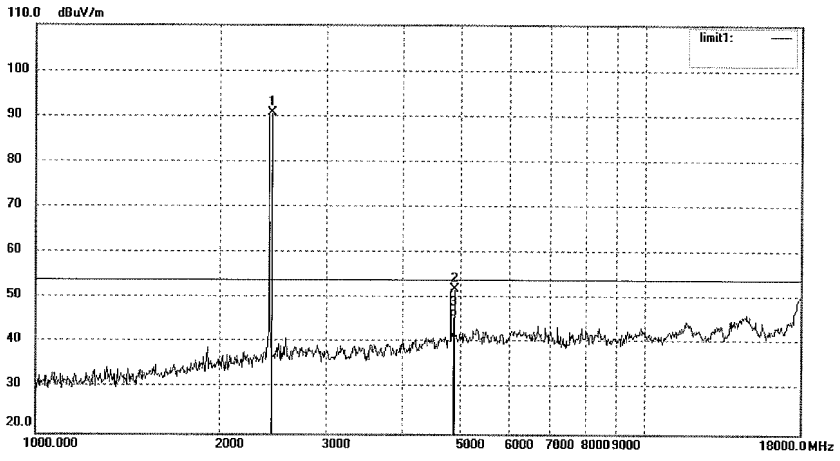
Fax:+86-0755-26503396

Job No.: PYH #377	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/08/37
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.015	98.01	-7.35	90.66	54.00	36.66	peak			
2	4882.020	51.95	0.14	52.09	54.00	-1.91	peak			
3	4882.020	45.85	0.14	45.99	54.00	-8.01	AVG			

Figure 39: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 25GHz), 8DPSK Modulation

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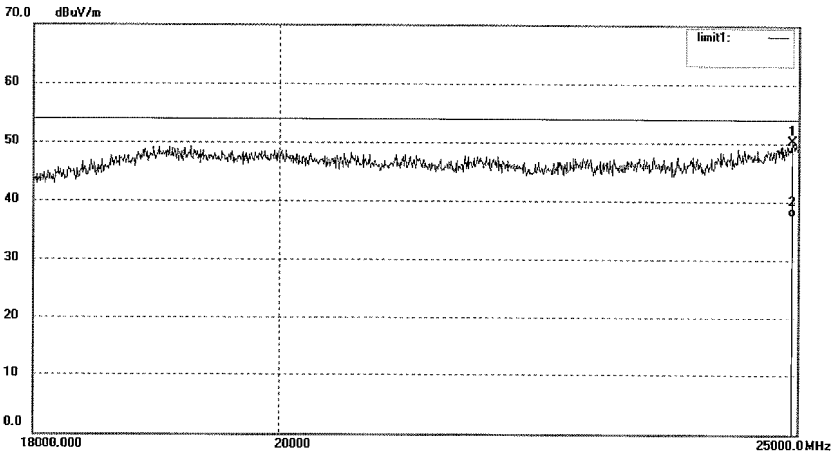
Fax:+86-0755-26503396

Job No.: PYH #464	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/33/00
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24942.463	31.49	18.82	50.31	54.00	-3.69	peak			
2	24942.463	18.68	18.82	37.50	54.00	-16.50	AVG			

Figure 40: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 25GHz), 8DPSK Modulation

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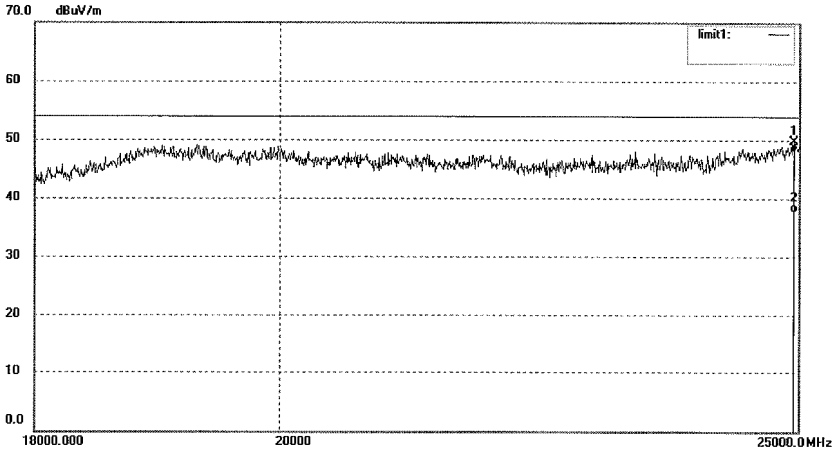
Fax:+86-0755-26503396

Job No.: PYH #463	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/23/19
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24950.674	31.04	18.83	49.87	54.00	-4.13	peak			
2	24950.674	18.85	18.83	37.68	54.00	-16.32	AVG			

Figure 41: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation

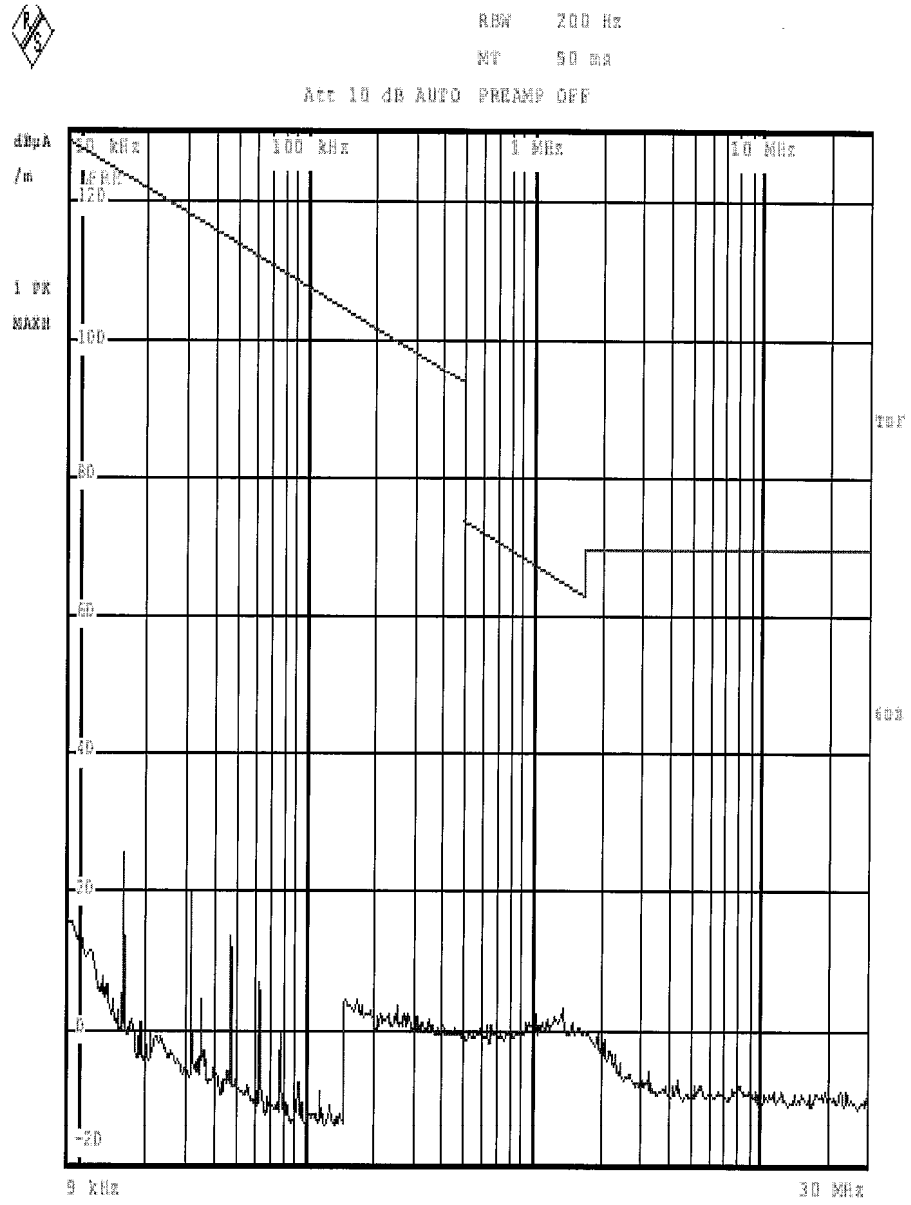
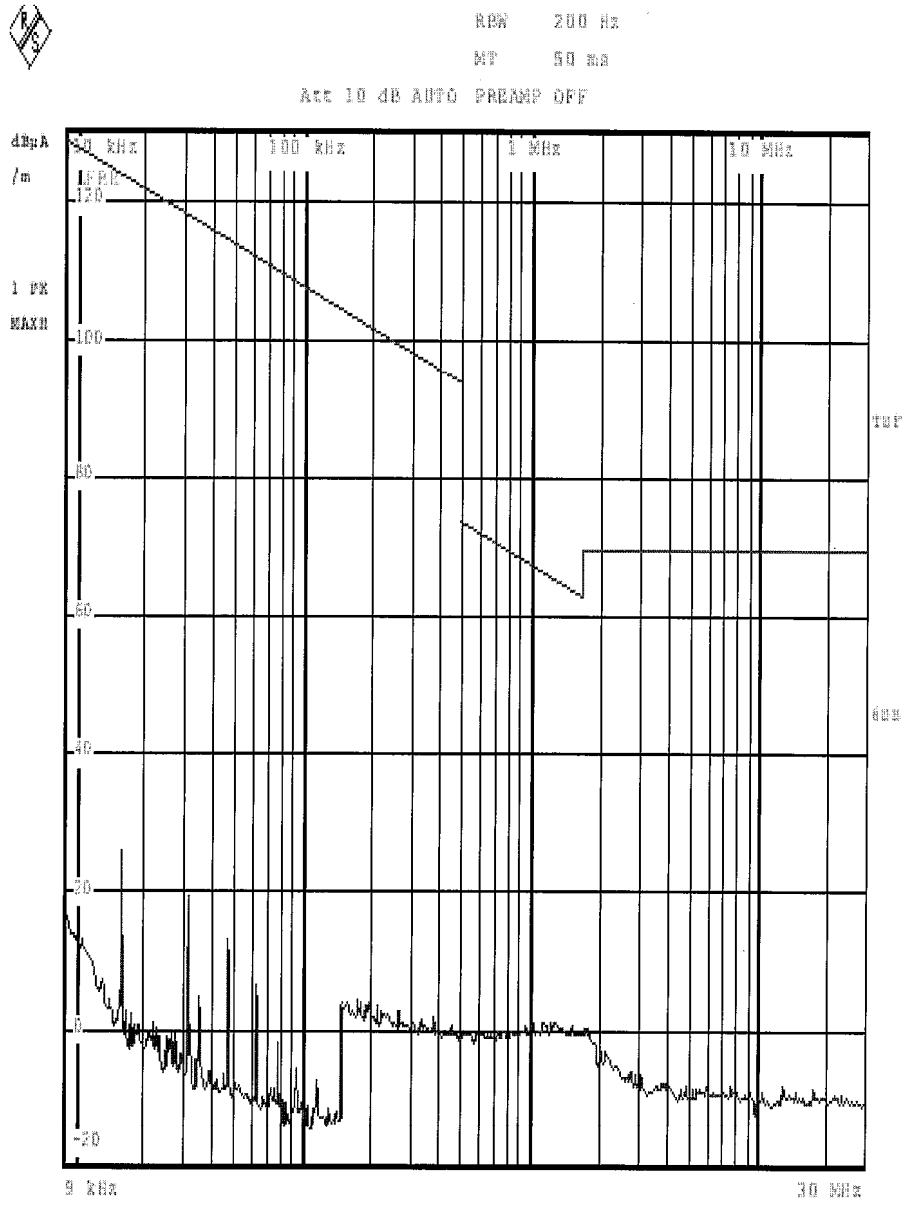


Figure 42: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation



Date: 8.NOV.2012 09:38:53

Figure 43: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation

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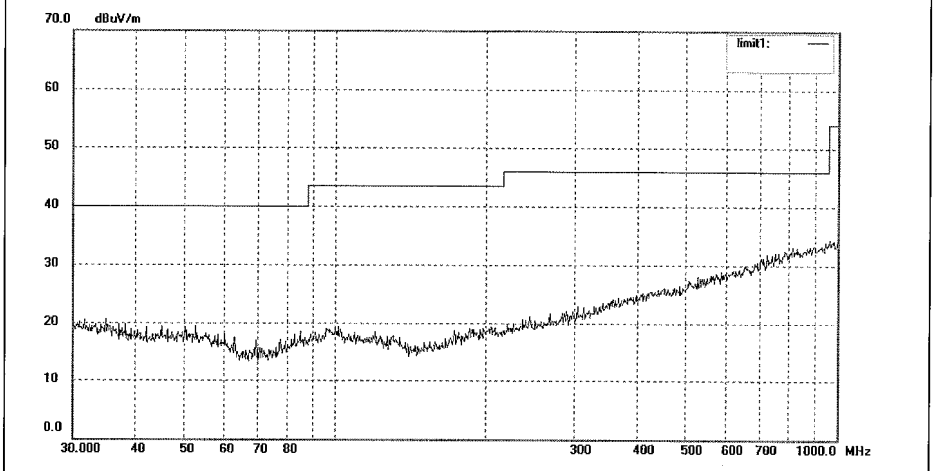
Fax:+86-0755-26503396

Job No.: PYH #437	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/37/36
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 44: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation

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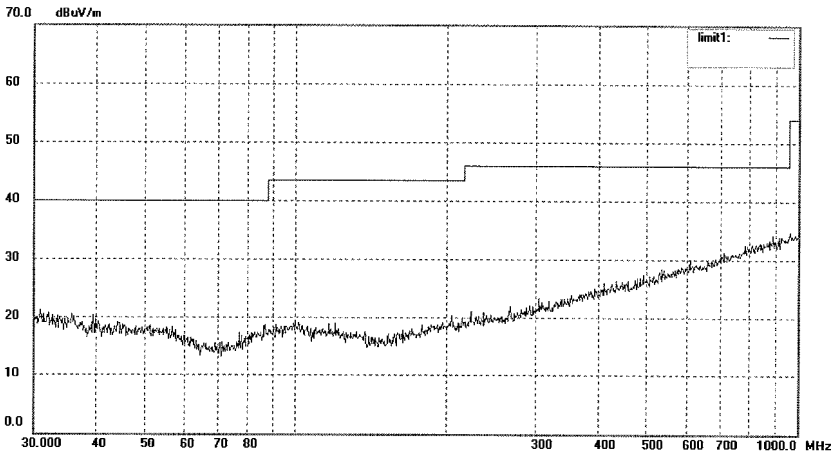
Job No.: PYH #436	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/28/56
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



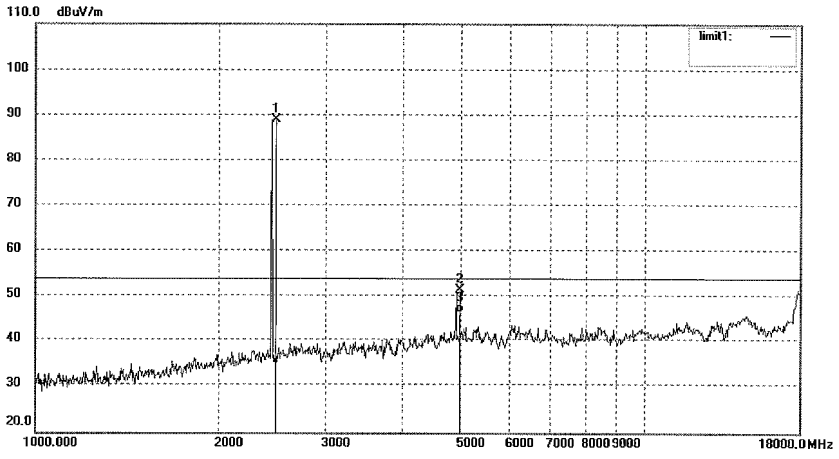
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 45: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #379	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/34/35
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



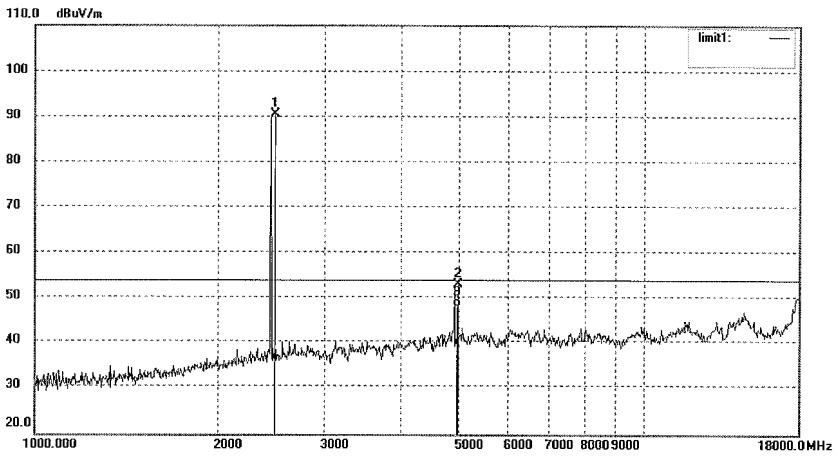
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.012	96.38	-7.37	89.01	54.00	35.01	peak			
2	4960.032	51.14	0.52	51.66	54.00	-2.34	peak			
3	4960.032	46.08	0.52	46.60	54.00	-7.40	AVG			

Figure 46: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #378	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/22/25
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.020	97.99	-7.37	90.62	54.00	36.62	peak			
2	4959.991	52.70	0.52	53.22	54.00	-0.78	peak			
3	4959.991	47.67	0.52	48.19	54.00	-5.81	AVG			

Figure 47: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz –25GHz), 8DPSK Modulation

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Tel:+86-0755-26503290
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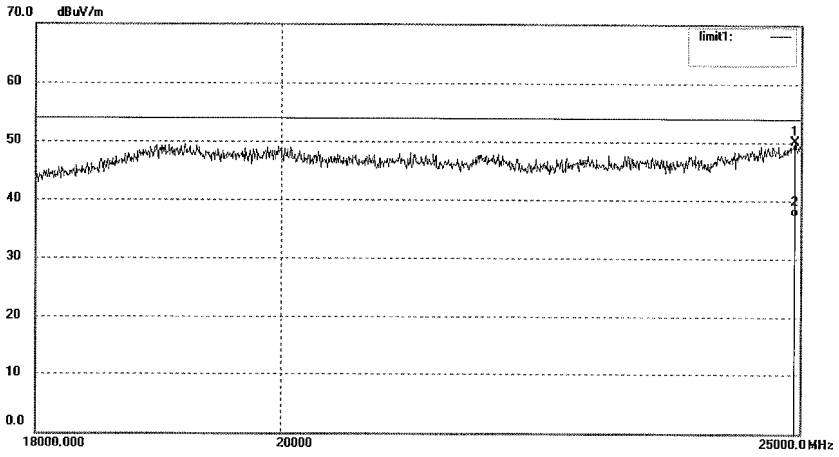
Job No.: PYH #465	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/42/21
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24942.463	31.24	18.82	50.06	54.00	-3.94	peak			
2	24942.463	18.53	18.82	37.35	54.00	-16.65	AVG			

Figure 48: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 25GHz), 8DPSK Modulation

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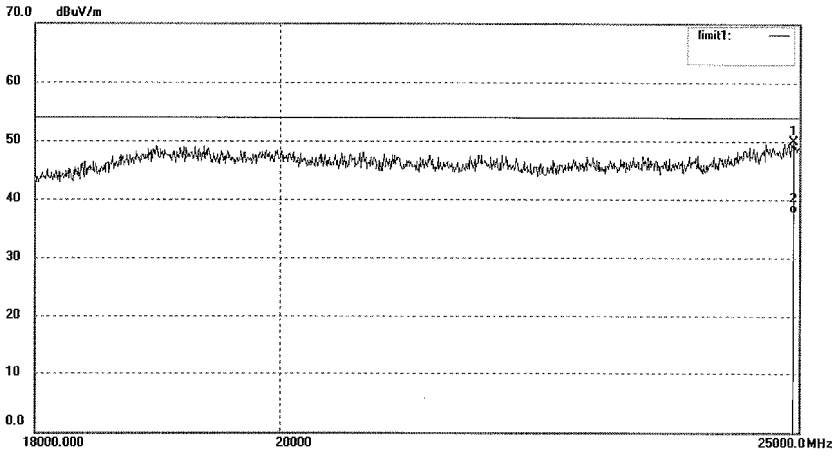
Tel:+86-0755-26503290
Fax:+86-0755-26503396

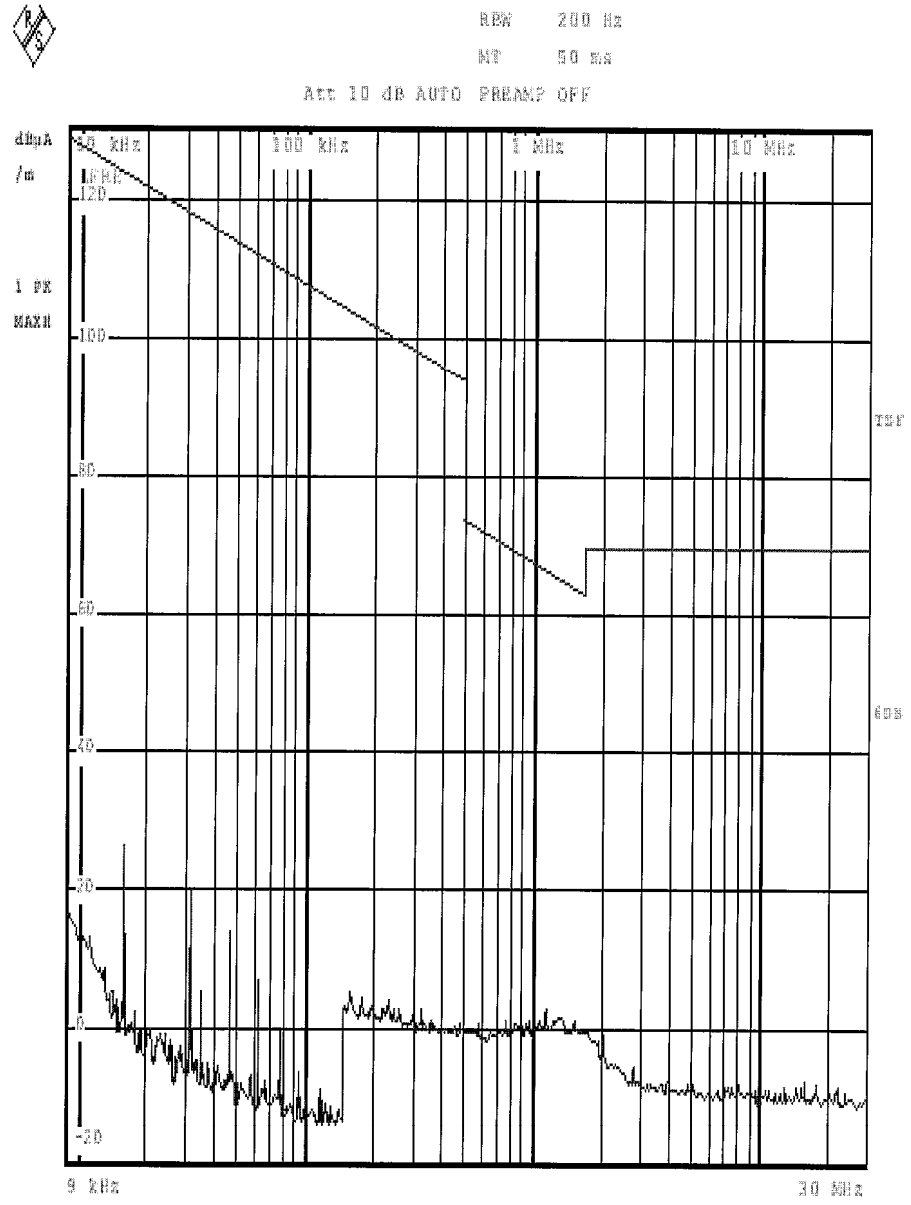
Job No.: PYH #466	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/51/08
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24942.463	31.14	18.82	49.96	54.00	-4.04	peak			
2	24942.463	18.86	18.82	37.68	54.00	-16.32	AVG			

Figure 49: Test figure of spurious emissions, mode C, Horizontal polarity (9kHz – 30MHz), GFSK Modulation



Date: 8.NOV.2012 08:58:46

Figure 50: Test figure of spurious emissions, mode C, Vertical polarity (9kHz – 30MHz), GFSK Modulation

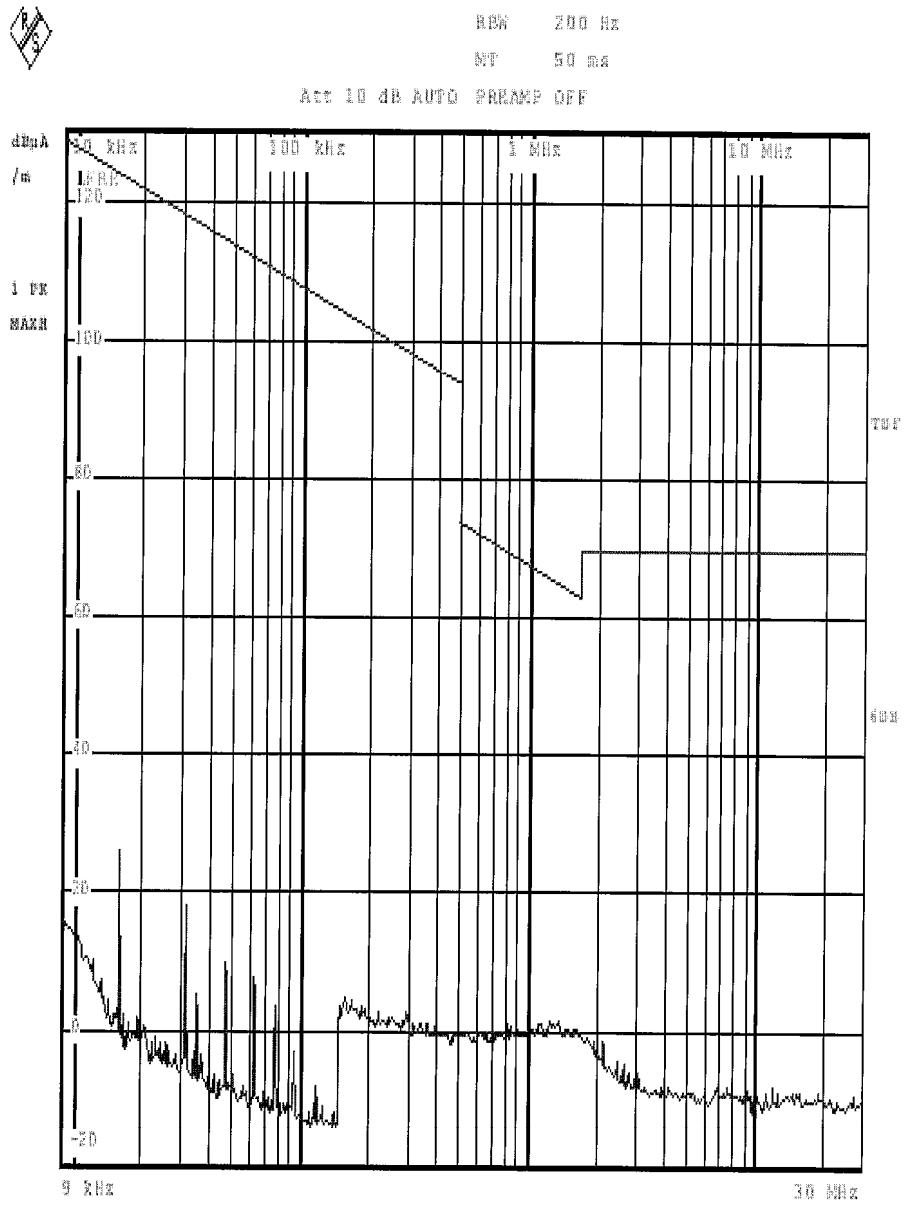


Figure 51: Test figure of spurious emissions, mode C, Horizontal polarity (30MHz – 1GHz), GFSK Modulation

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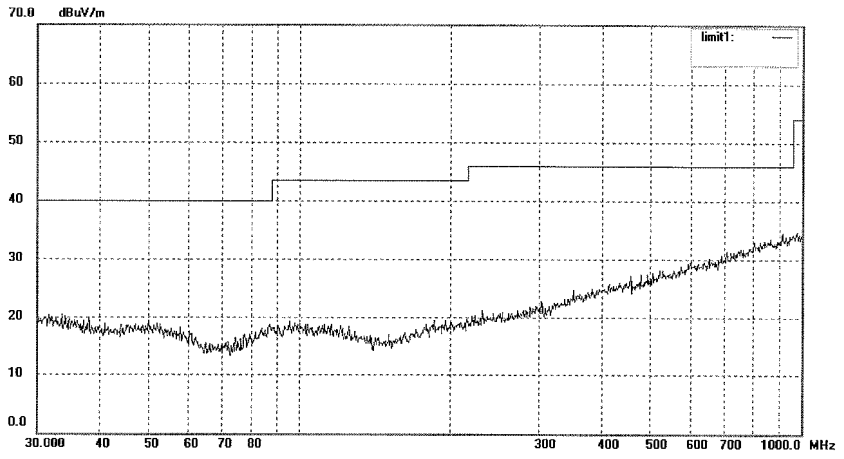
Fax:+86-0755-26503396

Job No.: PYH #438	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/45/54
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 52: Test figure of spurious emissions, mode C, Vertical polarity (30MHz – 1GHz), GFSK Modulation

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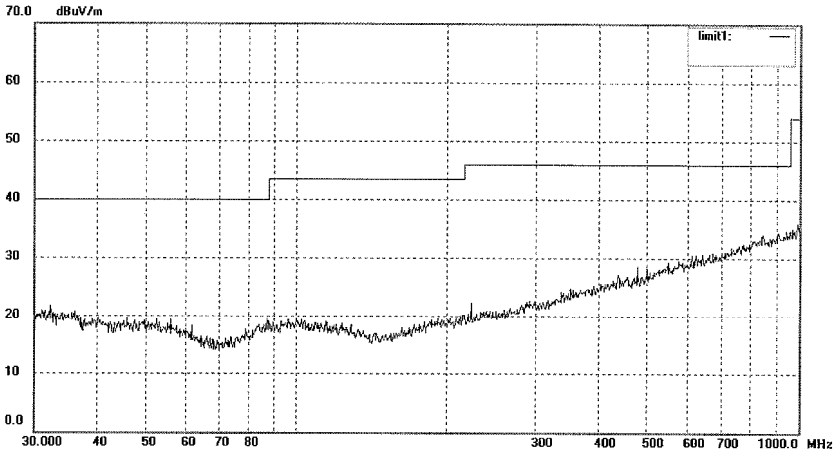
Fax:+86-0755-26503396

Job No.: PYH #439	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/53/16
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 53: Test figure of spurious emissions, mode C, Horizontal polarity (1GHz –18GHz), GFSK Modulation

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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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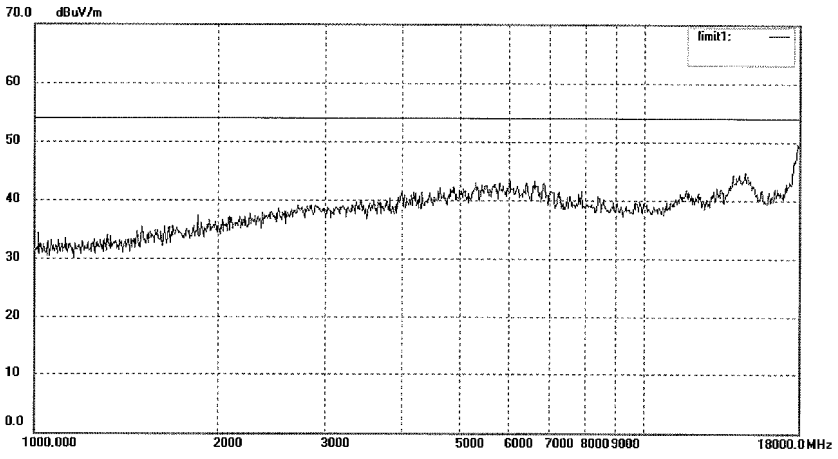
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #443	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/38/16
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 54: Test figure of spurious emissions, mode C, Vertical polarity (1GHz – 18GHz), GFSK Modulation

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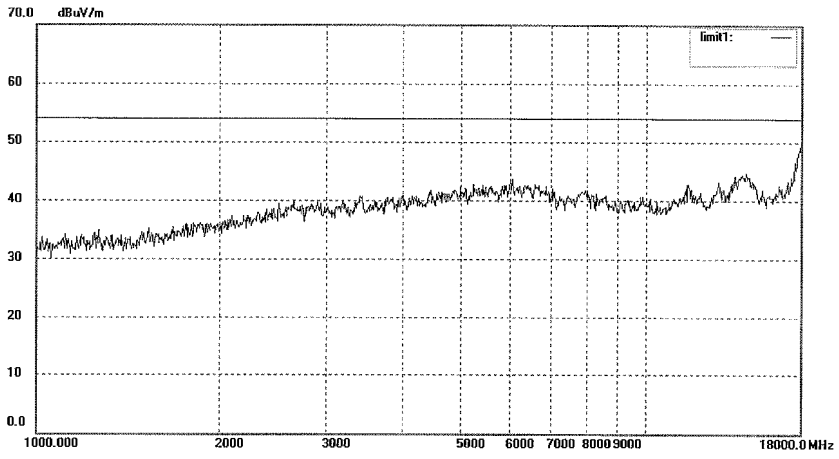
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #442	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/26/56
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 55: Test figure of spurious emissions, mode C, Horizontal polarity (18GHz –25GHz), GFSK Modulation

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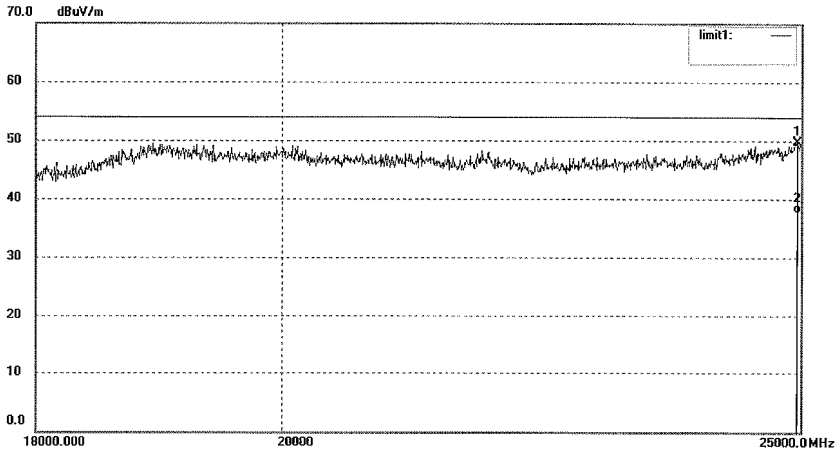
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #469	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23C / 49 %	Time: 12/19/41
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24958.889	30.94	18.84	49.78	54.00	-4.22	peak			
2	24958.889	18.87	18.84	37.71	54.00	-16.29	AVG			

Figure 56: Test figure of spurious emissions, mode C, Vertical polarity (18GHz – 25GHz), GFSK Modulation

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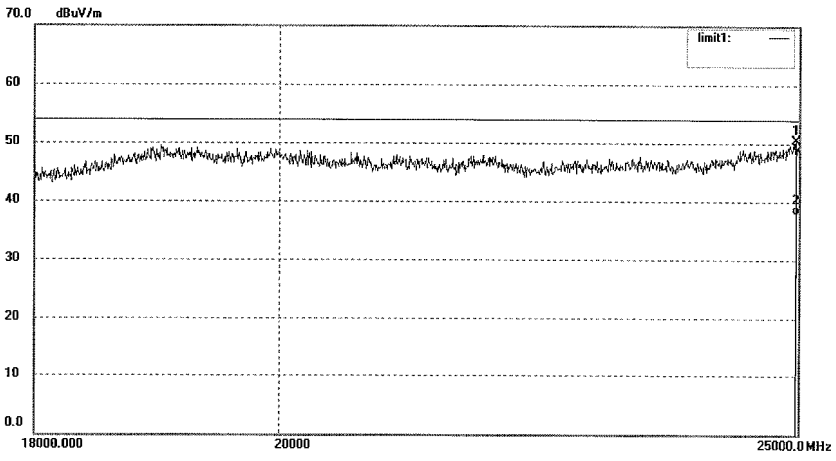
Tel:+86-0755-26503290
Fax:+86-0755-26503396

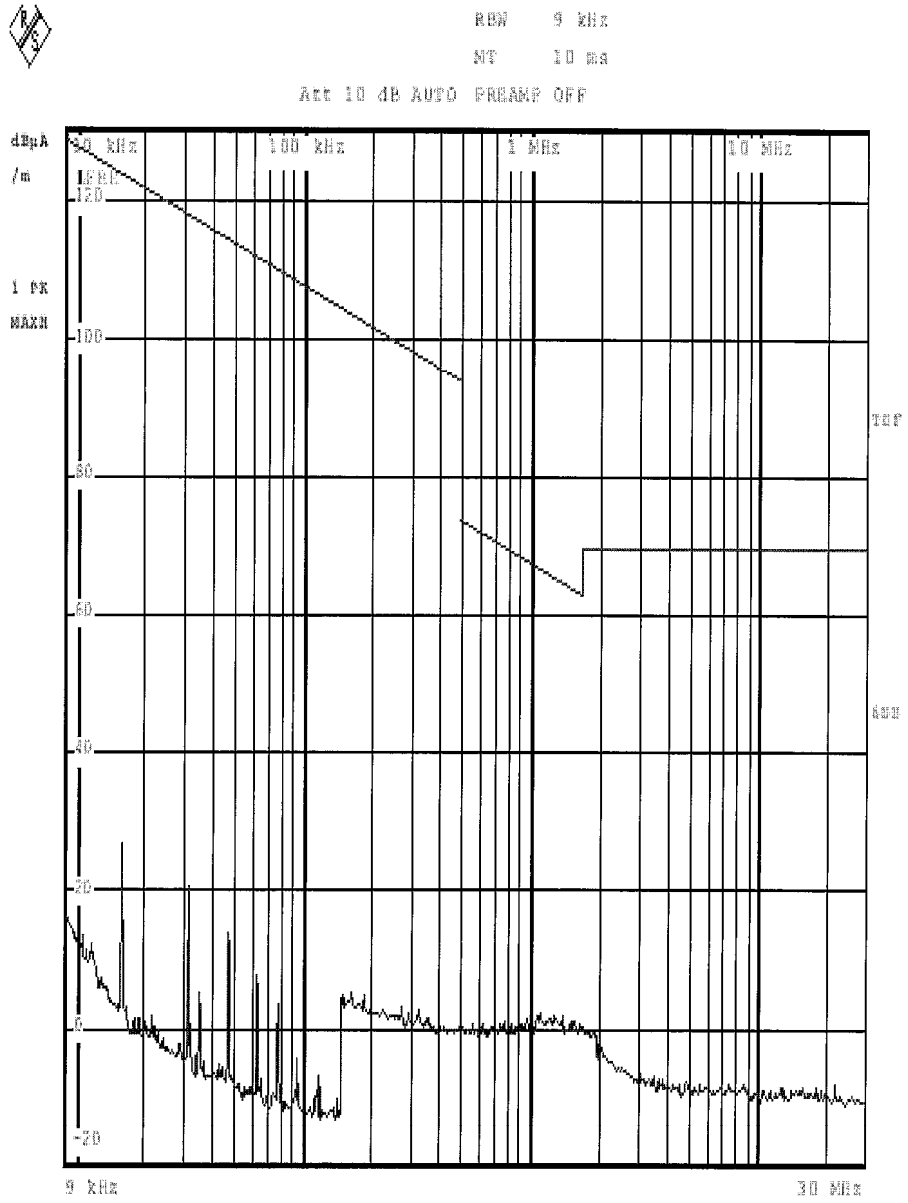
Job No.: PYH #470	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23C / 49 %	Time: 12/26/19
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



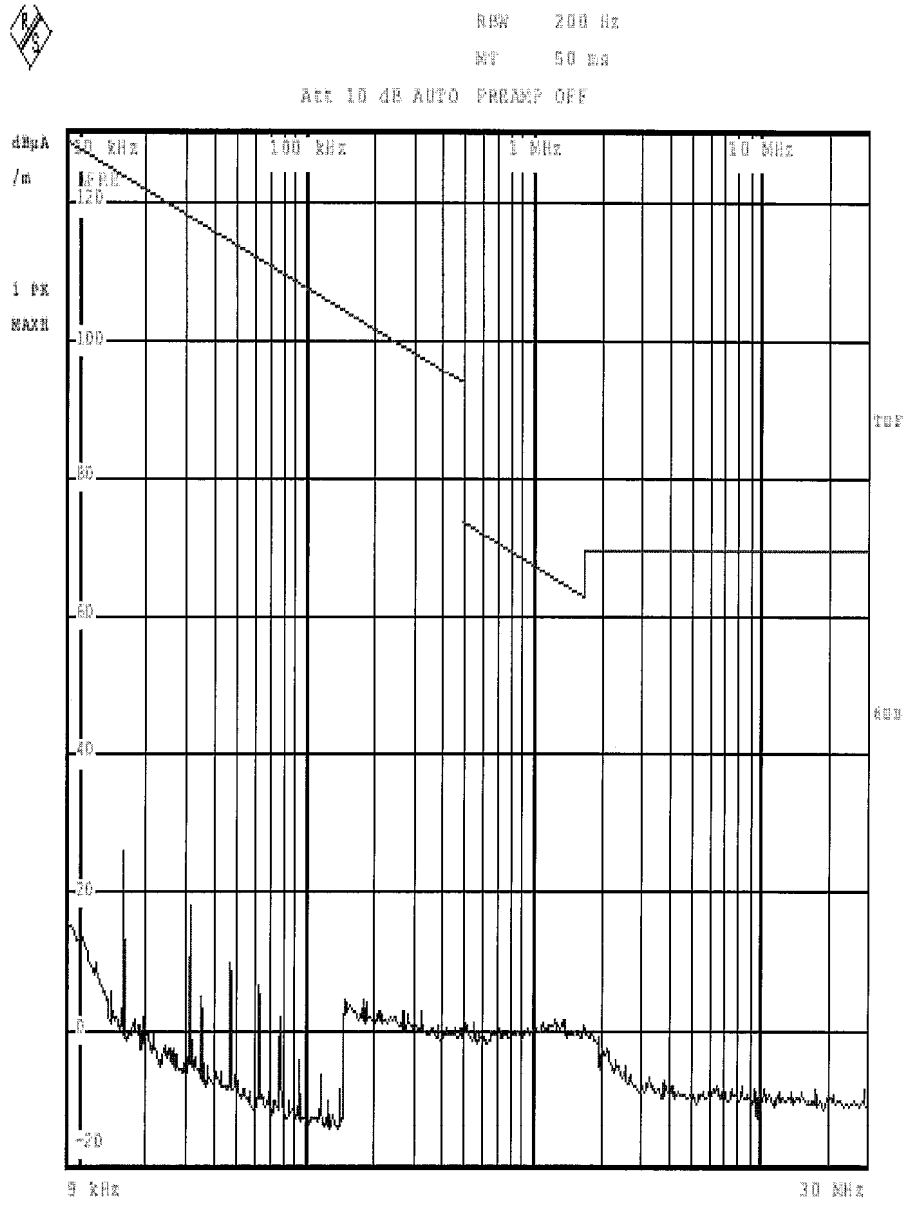
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24975.325	31.57	18.86	50.43	54.00	-3.57	peak			
2	24975.325	19.02	18.86	37.88	54.00	-16.12	AVG			

Figure 57: Test figure of spurious emissions, mode C, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation



Date: 8.NOV.2012 08:52:51

Figure 58: Test figure of spurious emissions, mode C, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation



Date: 8.NOV.2012 08:54:51

Figure 59: Test figure of spurious emissions, mode C, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation

ACCURATE TECHNOLOGY CO., LTD.
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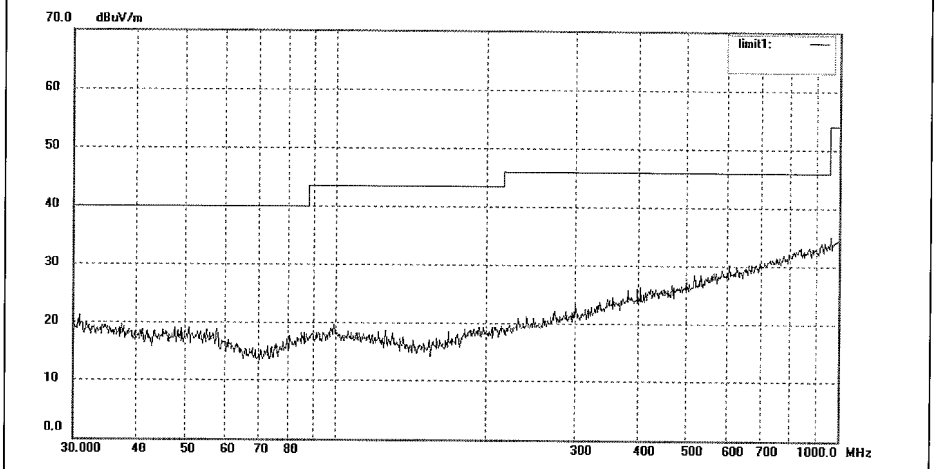
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #441	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/17/57
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 60: Test figure of spurious emissions, mode C, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation

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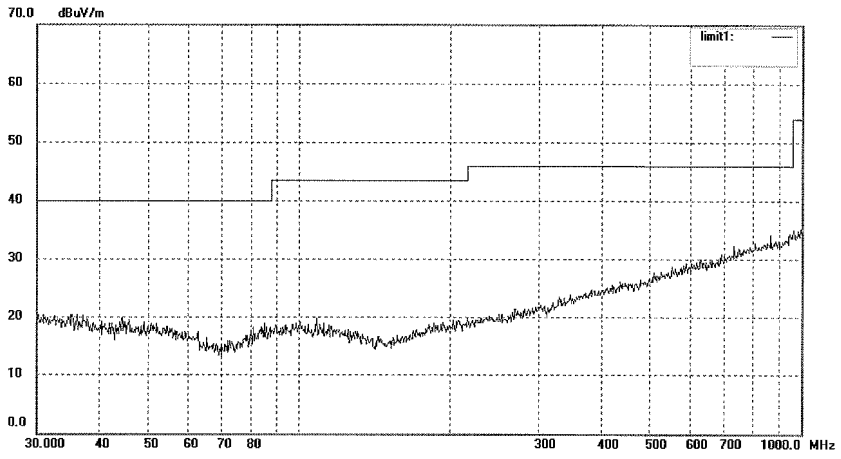
Job No.: PYH #440	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/06/20
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 61: Test figure of spurious emissions, mode C, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

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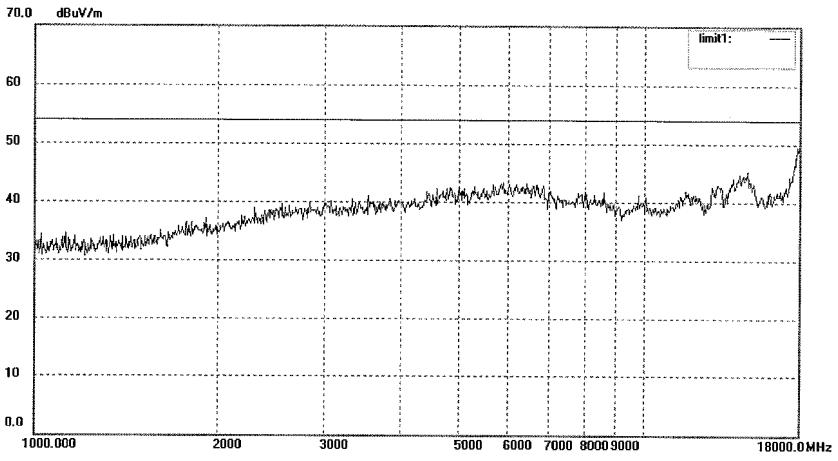
Fax:+86-0755-26503396

Job No.: PYH #444	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/47/27
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 62: Test figure of spurious emissions, mode C, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

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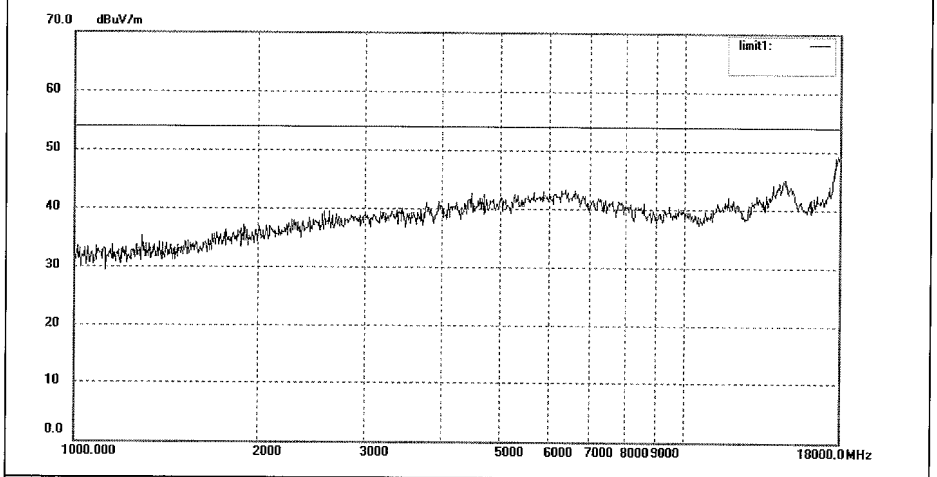
Fax:+86-0755-26503396

Job No.: PYH #445	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/08/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/58/43
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

Figure 63: Test figure of spurious emissions, mode C, Horizontal polarity (18GHz –25GHz), 8DPSK Modulation

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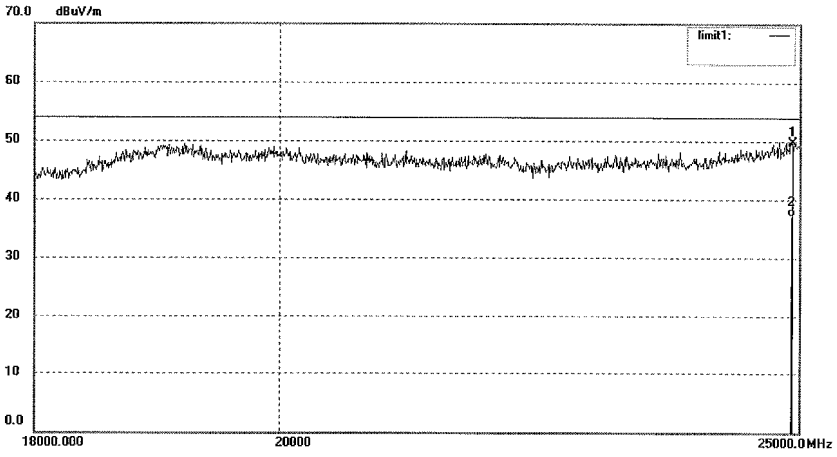
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #468	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 12/08/17
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



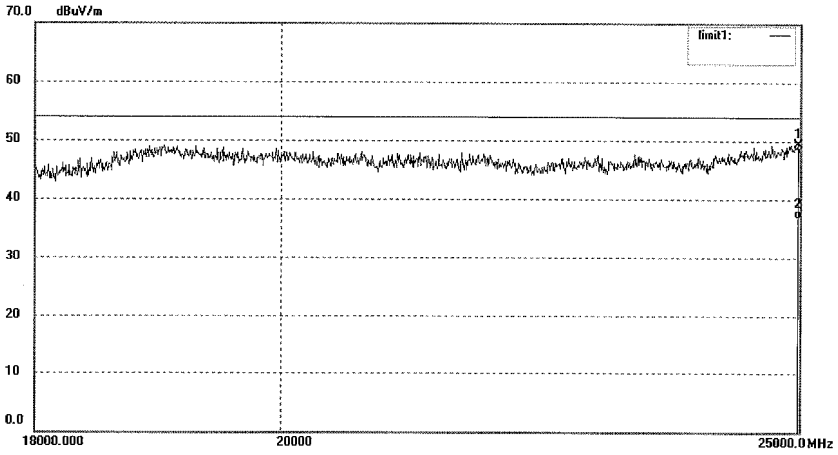
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24917.845	31.02	18.78	49.80	54.00	-4.20	peak			
2	24917.845	18.49	18.78	37.27	54.00	-16.73	AVG			

Figure 64: Test figure of spurious emissions, mode C, Vertical polarity (18GHz – 25GHz), 8DPSK Modulation

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #467	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/09/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 12/00/46
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24983.547	30.63	18.88	49.51	54.00	-4.49	peak			
2	24983.547	17.99	18.88	36.87	54.00	-17.13	AVG			

Figure 65: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, GFSK Modulation

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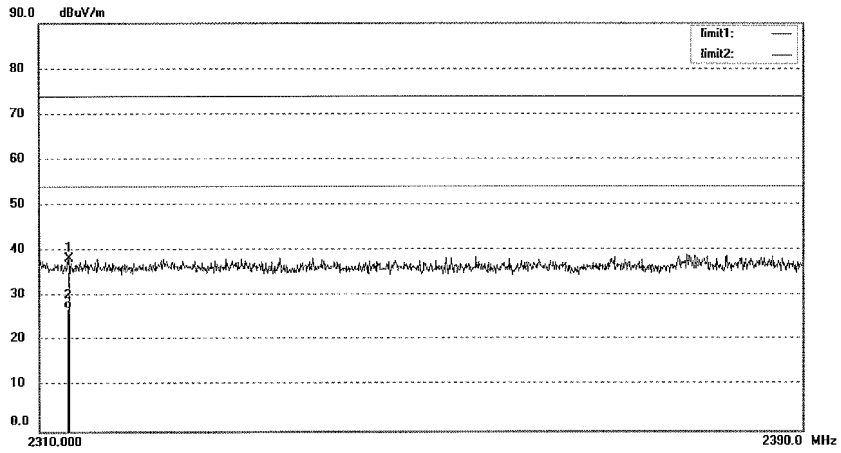
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #364	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/37/18
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2312.997	46.13	-7.81	38.32	74.00	-35.68	peak			
2	2312.997	34.86	-7.81	27.05	54.00	-26.95	AVG			

Figure 66: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, GFSK Modulation

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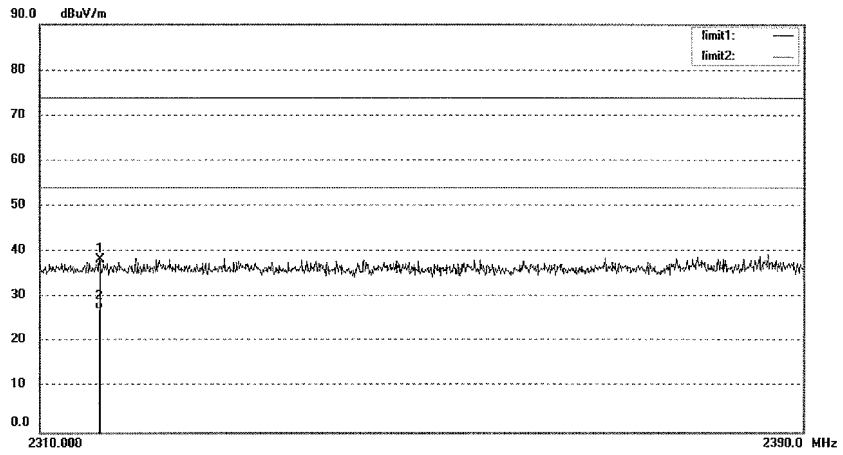
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #365	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 8/46/01
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2316.155	46.16	-7.81	38.35	74.00	-35.65	peak			
2	2316.155	34.91	-7.81	27.10	54.00	-26.90	AVG			

Figure 67: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, GFSK Modulation

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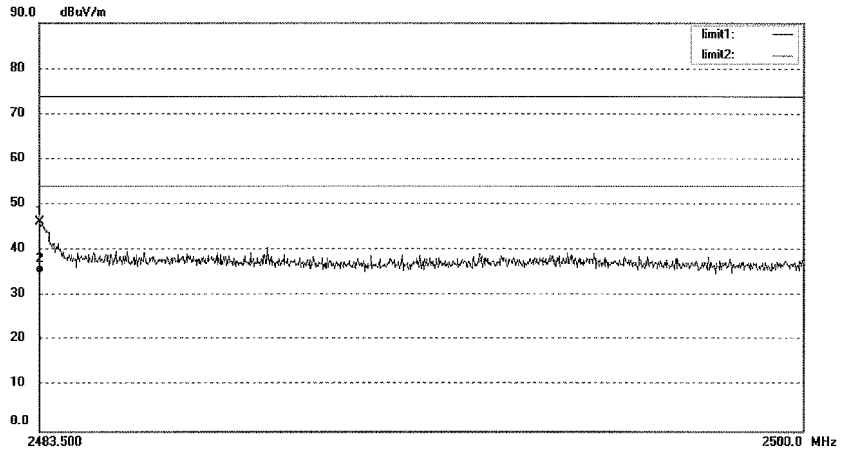
Fax:+86-0755-26503396

Job No.: PYH #371	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/59/27
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



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	53.52	-7.37	46.15	74.00	-27.85	peak			
2	2483.500	42.47	-7.37	35.10	54.00	-18.90	AVG			

Figure 68: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, GFSK Modulation

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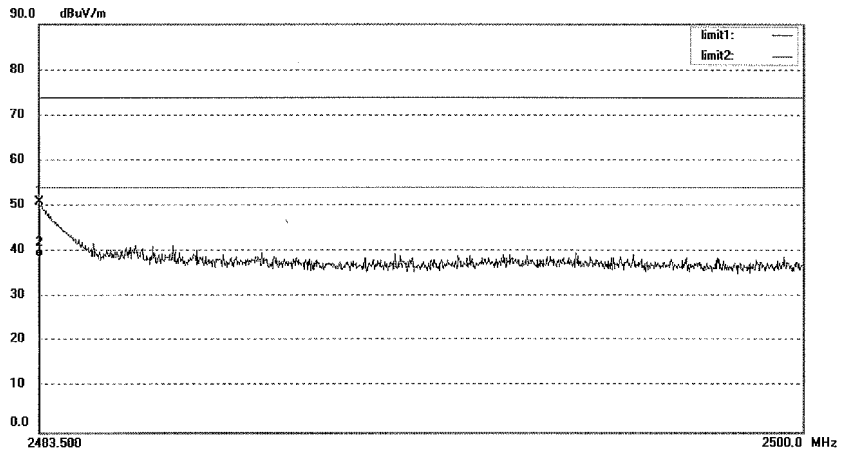
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #370	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/47/16
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: BDR



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	58.40	-7.37	51.03	74.00	-22.97	peak			
2	2483.500	46.17	-7.37	38.80	54.00	-15.20	AVG			

Figure 69: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, 8DPSK Modulation

ACCURATE TECHNOLOGY CO., LTD.
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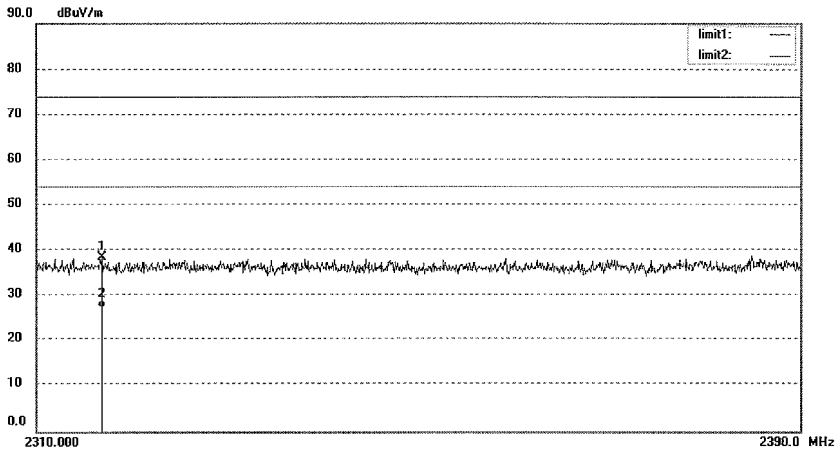
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #375	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/48/54
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2316.787	46.39	-7.82	38.57	74.00	-35.43	peak			
2	2316.787	35.15	-7.82	27.33	54.00	-26.67	AVG			

Figure 70: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, 8DP SK Modulation

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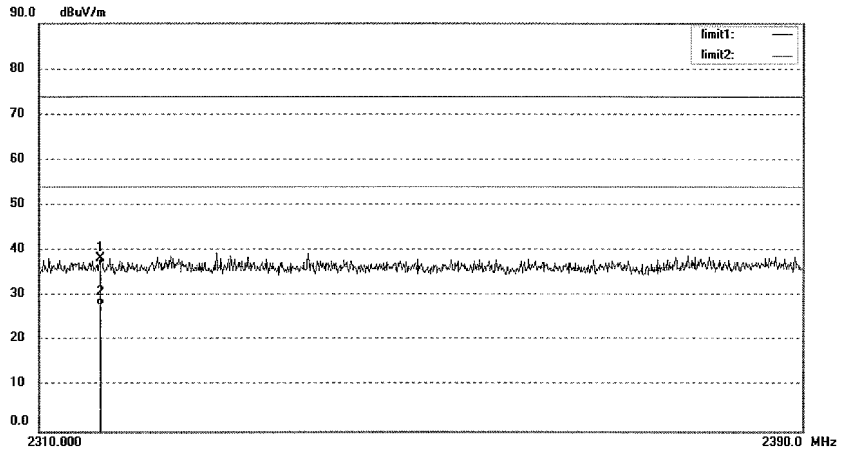
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #374	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10/37/33
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



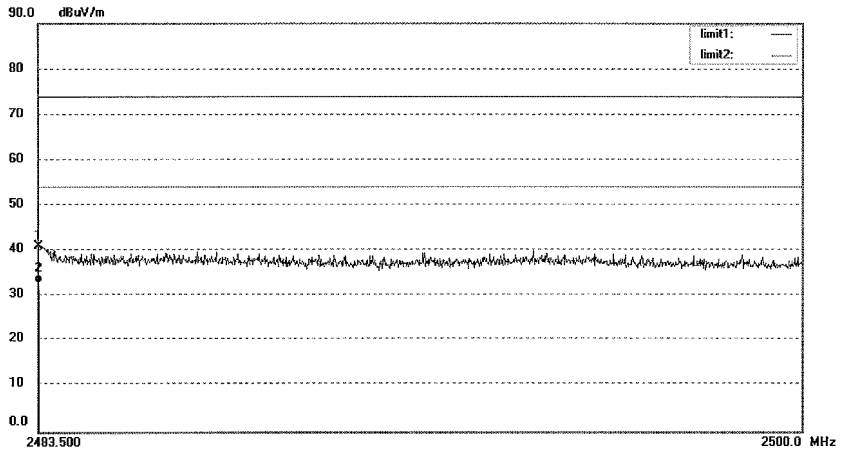
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2316.313	46.19	-7.82	38.37	74.00	-35.63	peak			
2	2316.313	35.53	-7.82	27.71	54.00	-26.29	AVG			

Figure 71: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, 8DPSK Modulation

ATC®
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #380	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/45/26
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



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	48.47	-7.37	41.10	74.00	-32.90	peak			
2	2483.500	40.27	-7.37	32.90	54.00	-21.10	AVG			

Figure 72: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, 8DPSK Modulation

ATC®
ACCURATE TECHNOLOGY CO., LTD.
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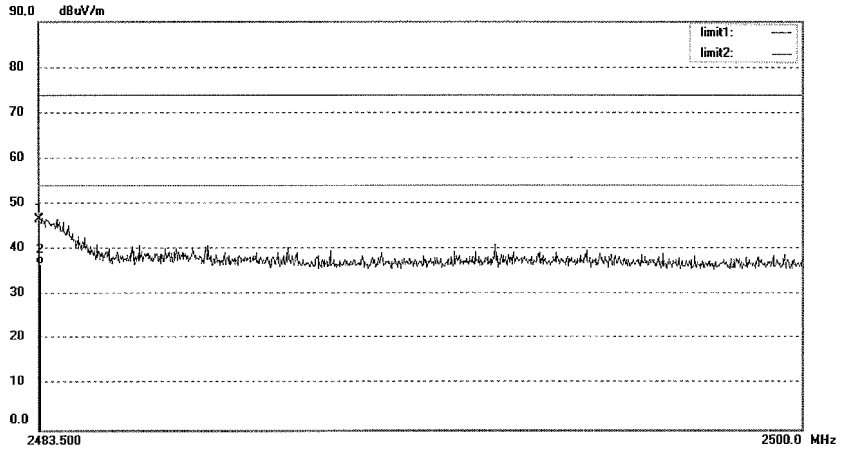
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #381	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 12/11/06/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 11/56/54
EUT: Bluetooth Vibration Timer	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 10020	
Manufacturer: PCH	

Note: EDR



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	54.06	-7.37	46.69	74.00	-27.31	peak			
2	2483.500	44.27	-7.37	36.90	54.00	-17.10	AVG			