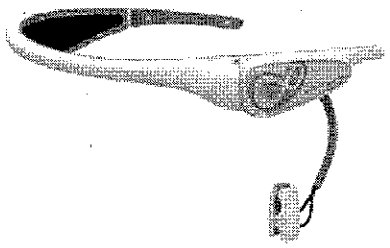
Prüfbericht-Nr.: *Test Report No.:*	**17030887 001**	**Auftrags-Nr.:** *Order No.:*	164002732	Seite 1 von 39 *Page 1 of 39*
Kunden-Referenz-Nr.: *Client Reference No.:*	N/A	**Auftragsdatum:** *Order date:*	22.01.2013	
Auftraggeber: *Client:*	Shenzhen Macrotellect Limited, South Block, 1102 Resources-Tech-Building No.1, Songpingshan Road,North Beihuan Av, Shenzhen, China			
Prüfgegenstand: *Test item:*	Bluetooth Brainwave Sensor			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	BL001			
Auftrags-Inhalt: *Order content:*	FCC Certification			
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			

Wareneingangsdatum: *Date of receipt:*	26.02.2013
Prüfmuster-Nr.: *Test sample No.:*	20130205401
Prüfzeitraum: *Testing period:*	04.03.2013 - 08.04.2013
Ort der Prüfung: *Place of testing:*	Shenzhen Accurate Technology Co., Ltd.
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.
Prüfergebnis*: *Test result*:*	Pass



geprüft von / *tested by:*

10.04.2013 Sam Lin / Senior Project Manager

Datum *Date*	Name / Stellung *Name / Position*	Unterschrift *Signature*

kontrolliert von / *reviewed by:*

10.04.2013 Winnie Hou / Technical Certifier

Datum *Date*	Name / Stellung *Name / Position*	Unterschrift *Signature*

Sonstiges / *Other:*

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *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*

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.
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.

V04

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 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH
RESULT: Passed

5.1.5 SPURIOUS EMISSION
RESULT: Passed

5.1.6 FREQUENCY SEPARATION
RESULT: Passed

5.1.7 NUMBER OF HOPPING FREQUENCY
RESULT: Passed

5.1.8 TIME OF OCCUPANCY
RESULT: Passed

5.1.9 CONDUCTED EMISSIONS
RESULT: Passed

5.1.10 RADIATED EMISSION
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

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	2014-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	2014-01-07
Radio Test Suite				
Receiver	Rohde & Schwarz	ESPI	100396/003	2014-01-07
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
Artificial Mains Network	Schwarzbeck	NLSK8126	8126431	2014-01-07

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 a brainwave sensor with Bluetooth function.
The EUT includes the sensor which touches the contact points located on forehead and ear pad, collects analog signals of brainwaves, processes data and transfer this data to software and applications in digital form. It connects wirelessly via Bluetooth to most end user devices such as smartphones, tablet, smart TV, laptop and desktop computers.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Bluetooth Brainwave Sensor
Type Designation:	BL001
FCC ID	RVDBL001

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 via lithium Battery
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	2dBi
RF Output Power	0.00194W (2.87dBm)

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. BT Transmitting
   1. Low channel
   2. Middle channel
   3. High channel
B. BT Receiving
C. Charging
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	S/N
Notebook	Lenovo	4290-RT8	R9-FW93G
Printer	HP	HP laseriet 1015	CNFG030424

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

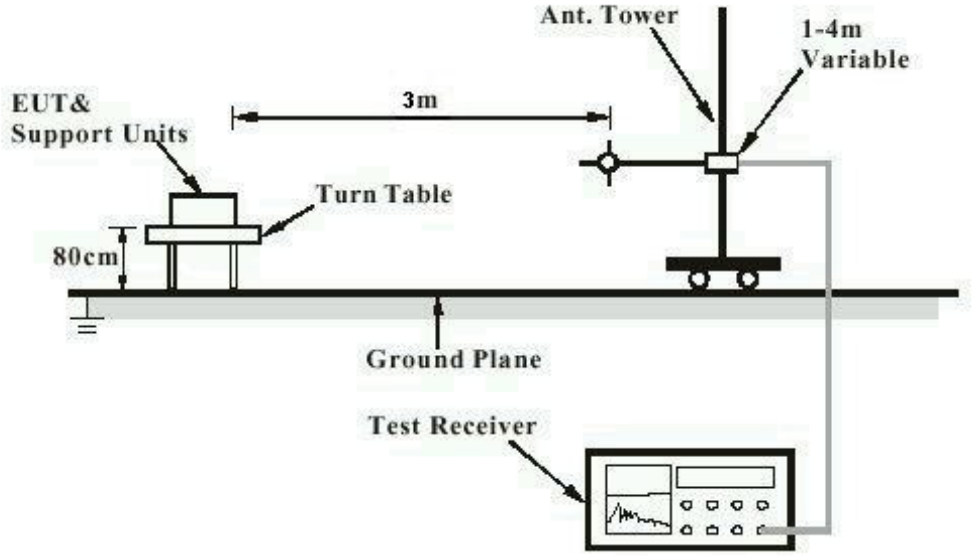


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

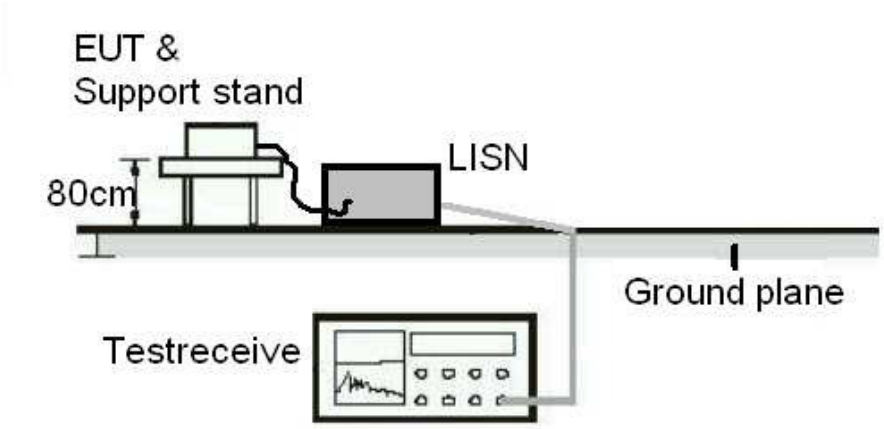
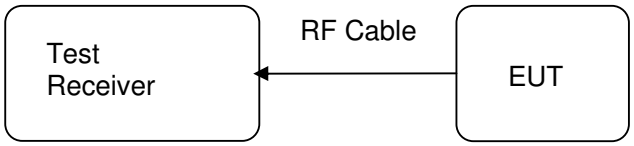


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Passed**

Test date	:	2013-04-09
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 2dBi, 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	:	2013-03-04
Test standard	:	FCC Part 15.247(b)(1)
Basic standard	:	ANSI C63.4: 2003
Limit	:	0.125 Watt
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25℃
Relative humidity	:	55%
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	2.26	0.00168	0.125
Middle Channel	2441	2.11	0.00163	0.125
High Channel	2480	1.87	0.00154	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	2.87	0.00194	0.125
Middle Channel	2441	2.66	0.00185	0.125
High Channel	2480	2.32	0.00171	0.125

Remark: RBW is 3MHz

5.1.3 20dB Bandwidth

RESULT: **Passed**

Date of testing	:	2013-04-09
Test standard	:	FCC Part 15.247(a)(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	:	25℃
Relative humidity	:	55%
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	834	/	Pass
Mid Channel	2441	834	/	Pass
High Channel	2480	834	/	Pass

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

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1200	/	Pass
Mid Channel	2441	1200	/	Pass
High Channel	2480	1194	/	Pass

5.1.4 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT: **Passed**

Date of testing	:	2013-03-04
Test standard	:	FCC part 15.247(d)
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

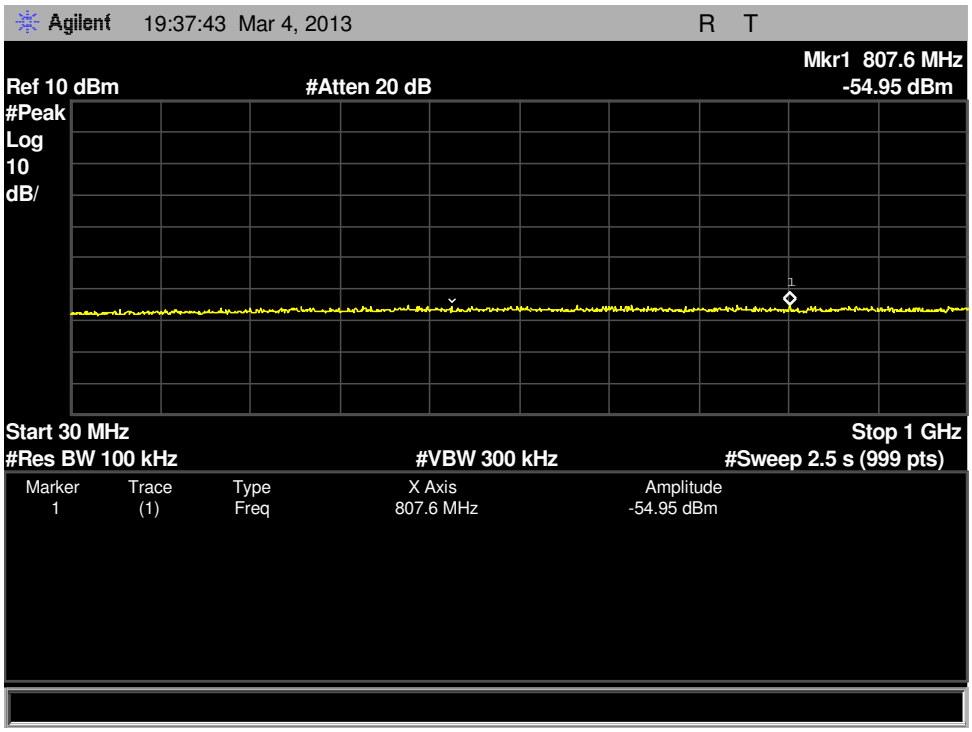
Test setup

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

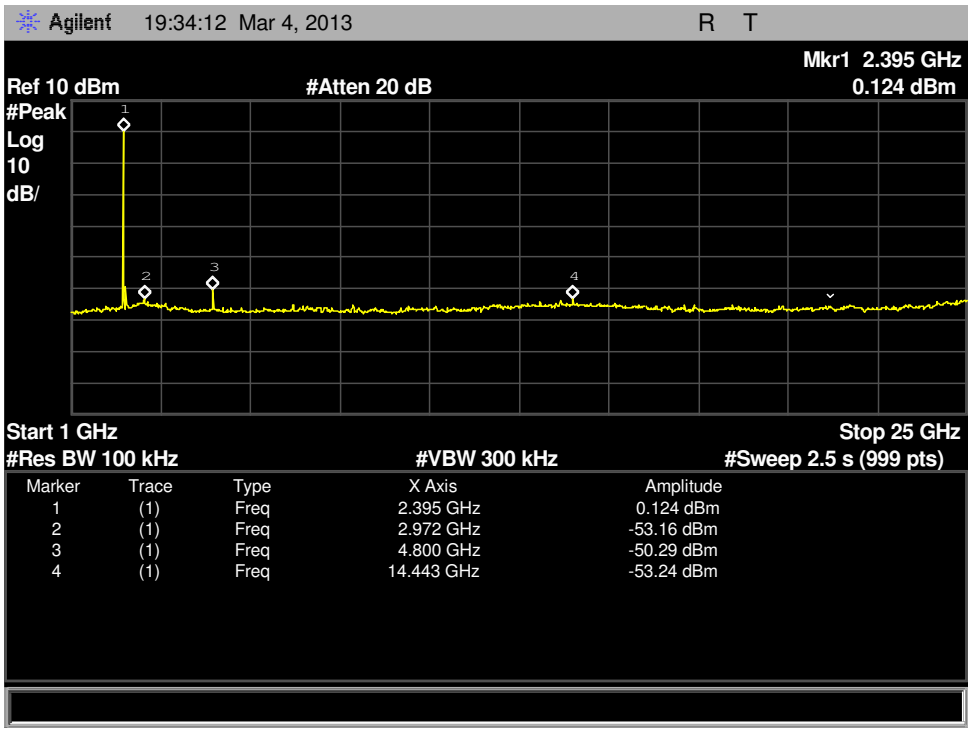
All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achived as well.

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

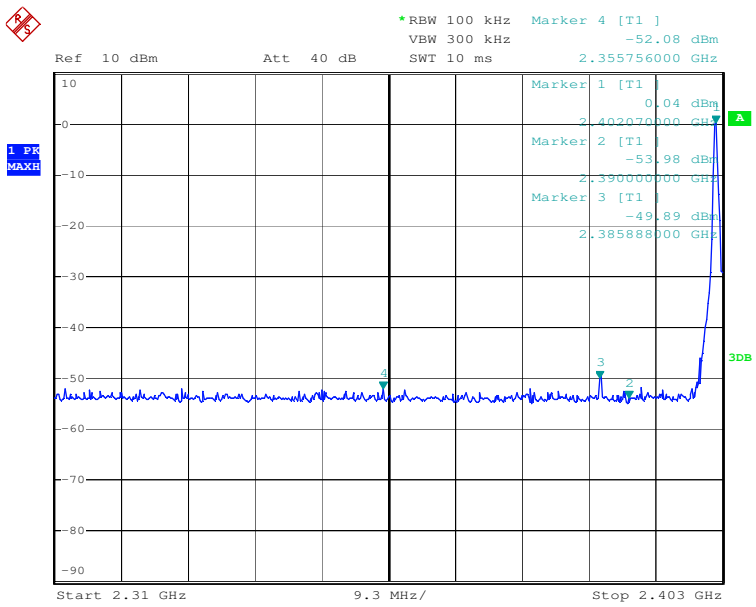
Low Channel, below 1GHz



Low Channel, above 1GHz

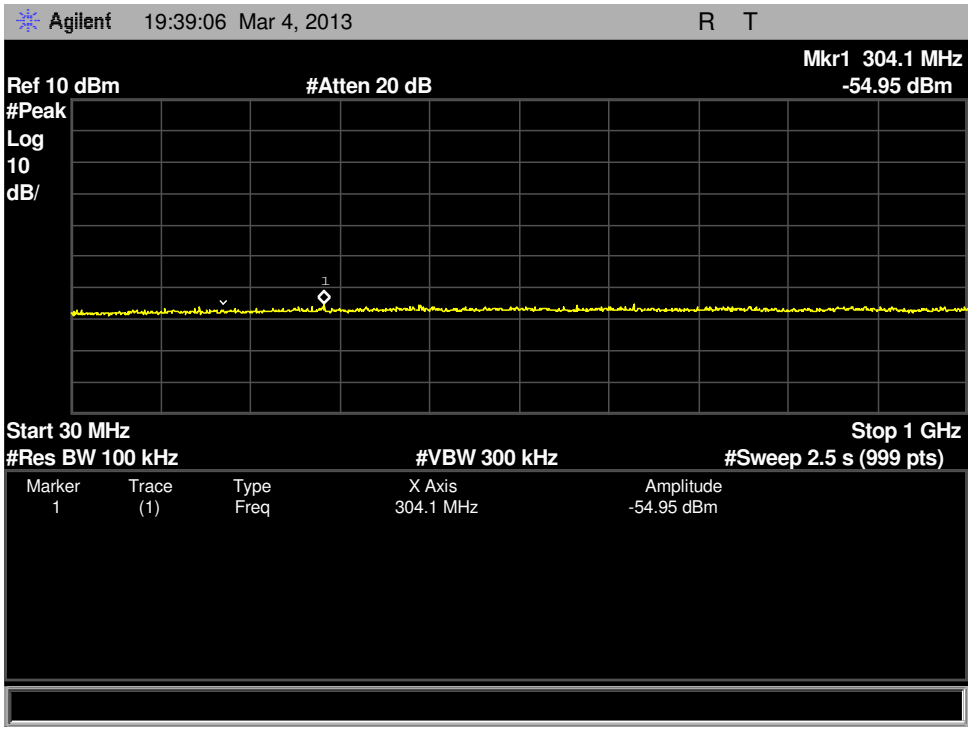


Low Channel, Band Edge

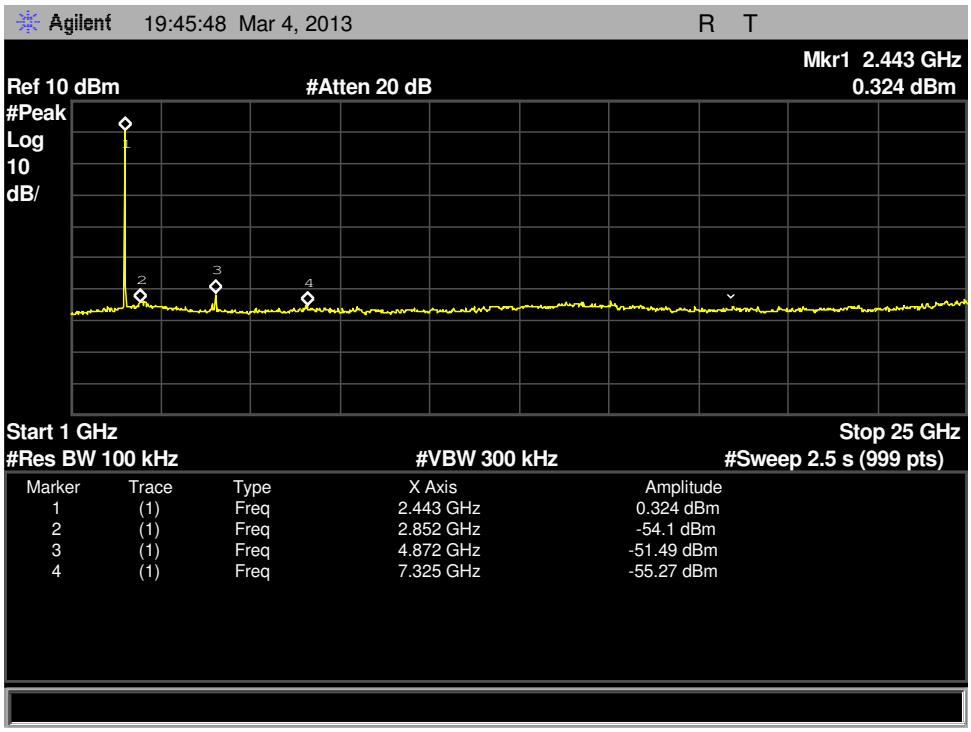


Date: 4.MAR.2013 16:29:01

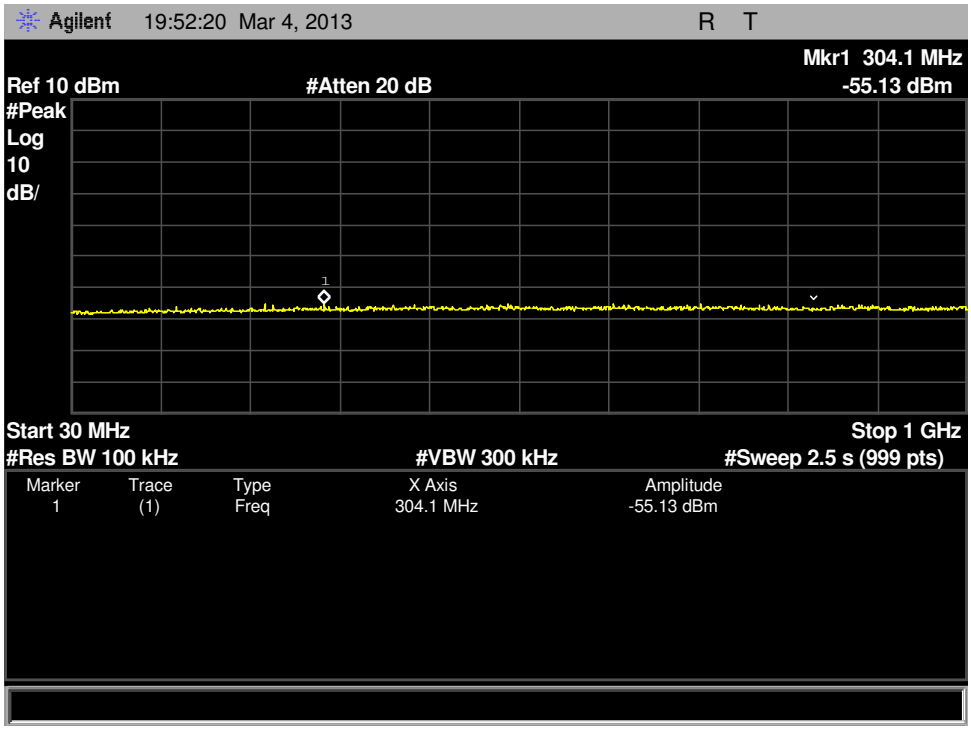
Middle Channel, below 1GHz



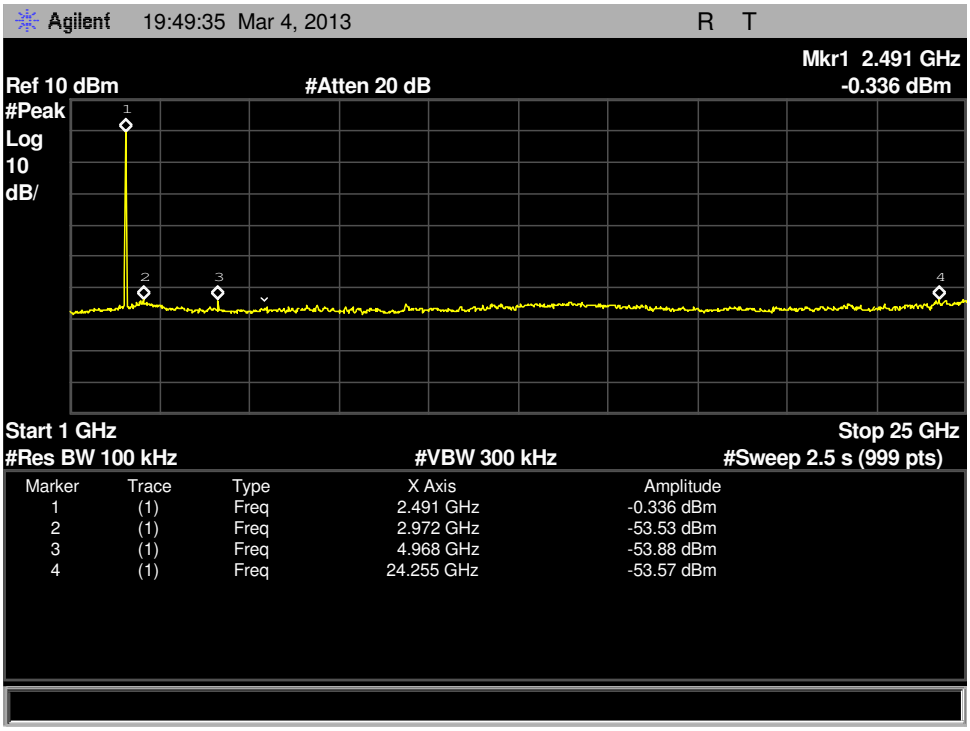
Middle Channel, above 1GHz



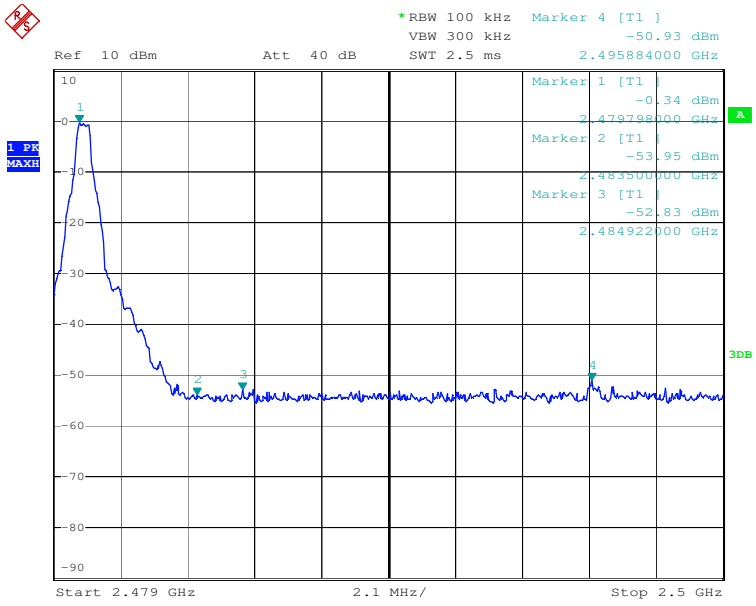
High Channel, below 1GHz



High Channel, above 1GHz



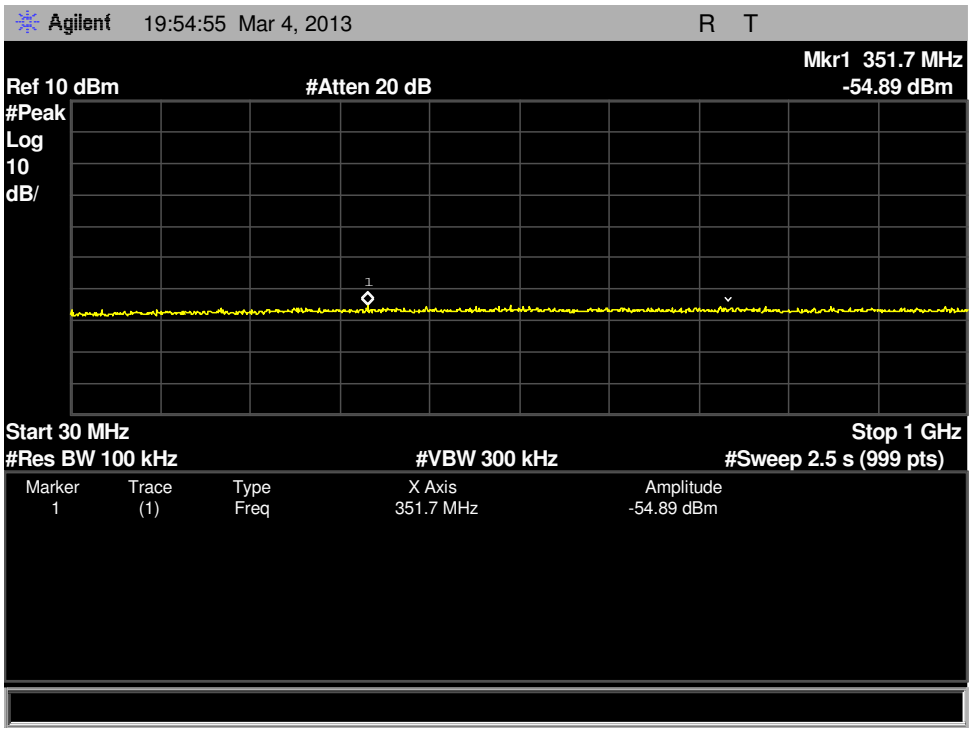
High Channel, Band Edge



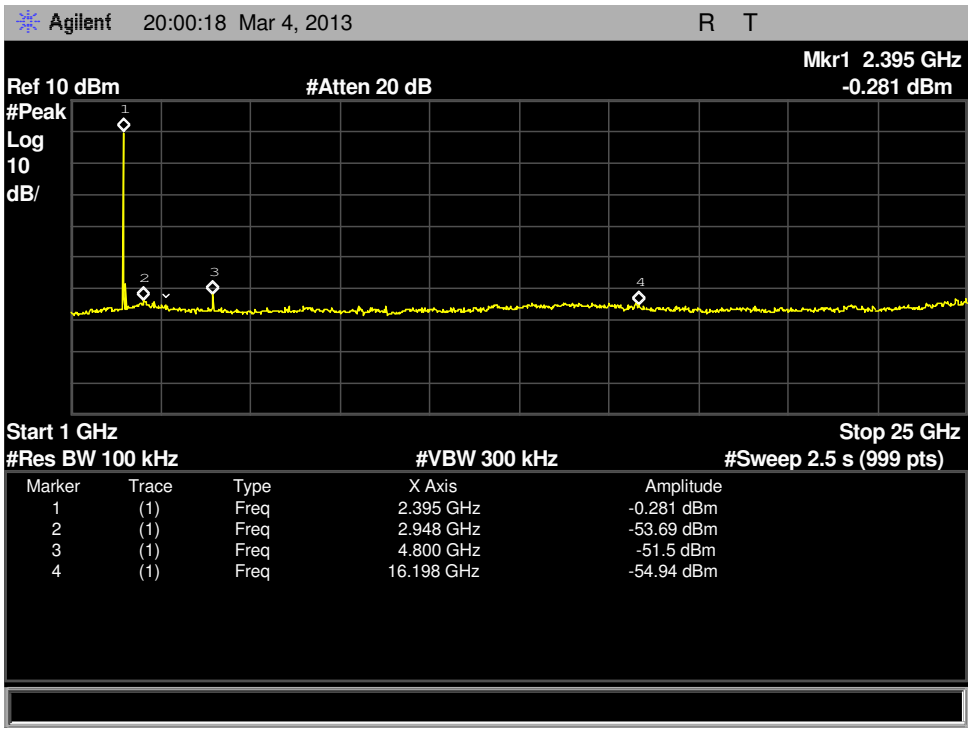
Date: 4.MAR.2013 16:34:07

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

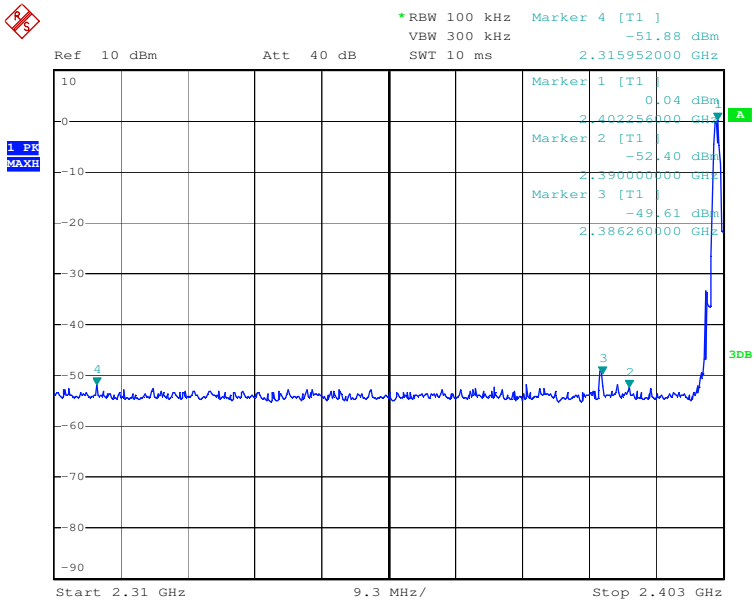
Low Channel, below 1GHz



Low Channel, above 1GHz



Low Channel, Band Edge



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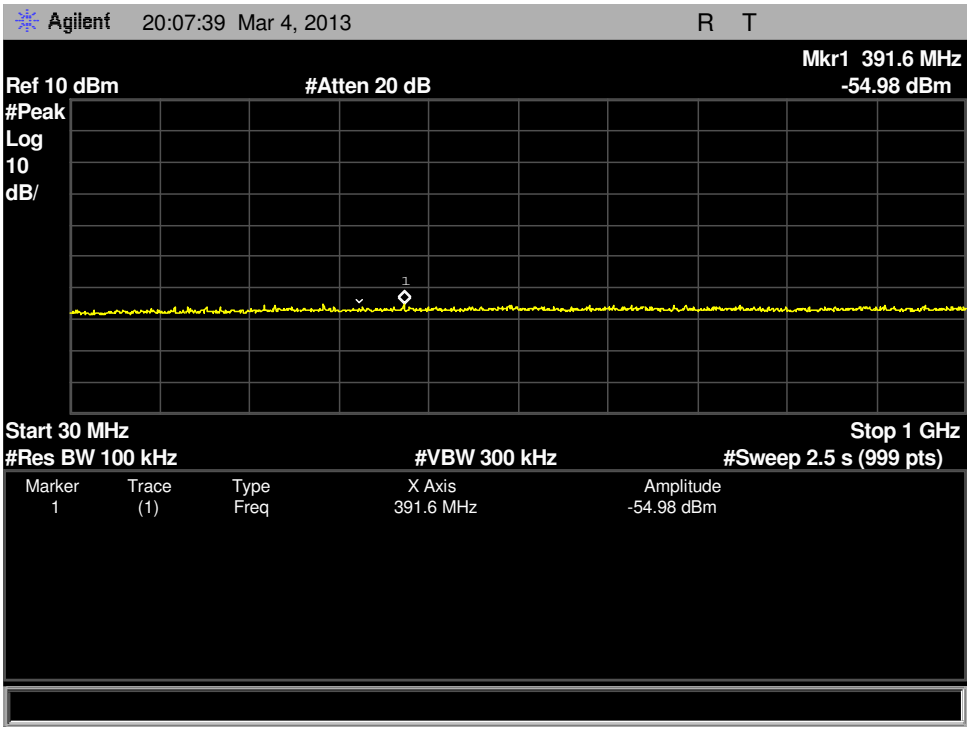
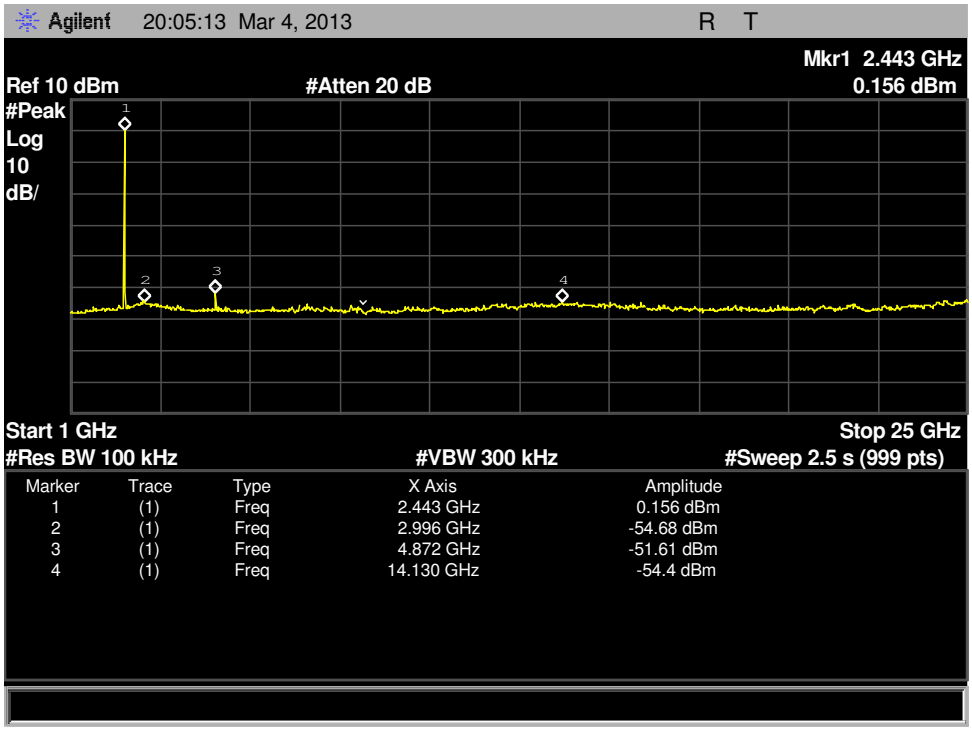
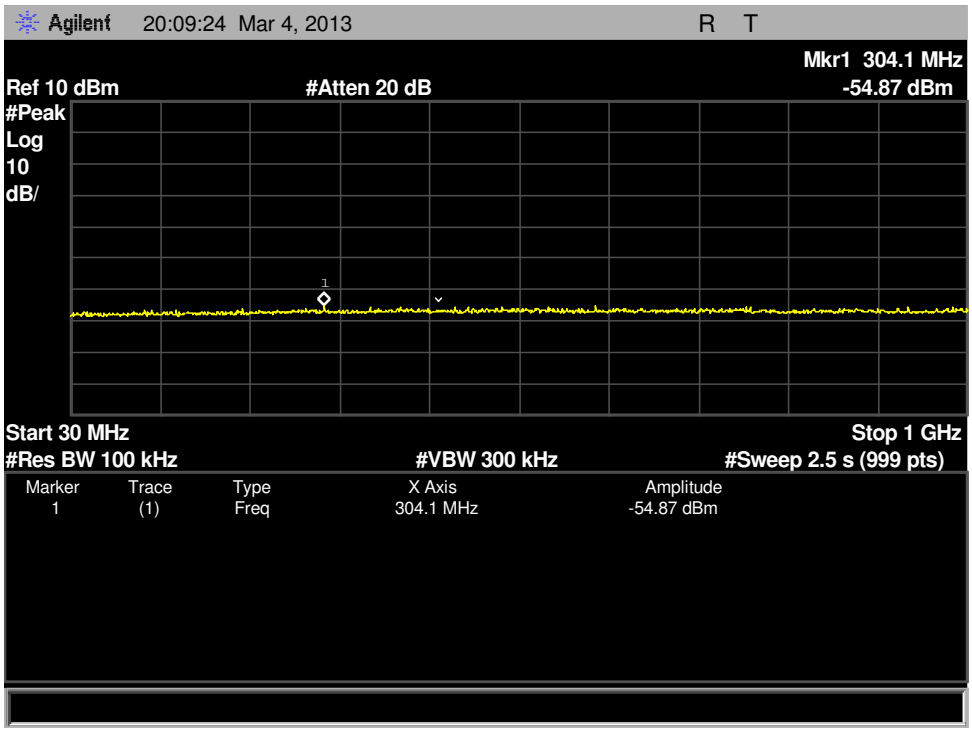
Middle Channel, below 1GHz



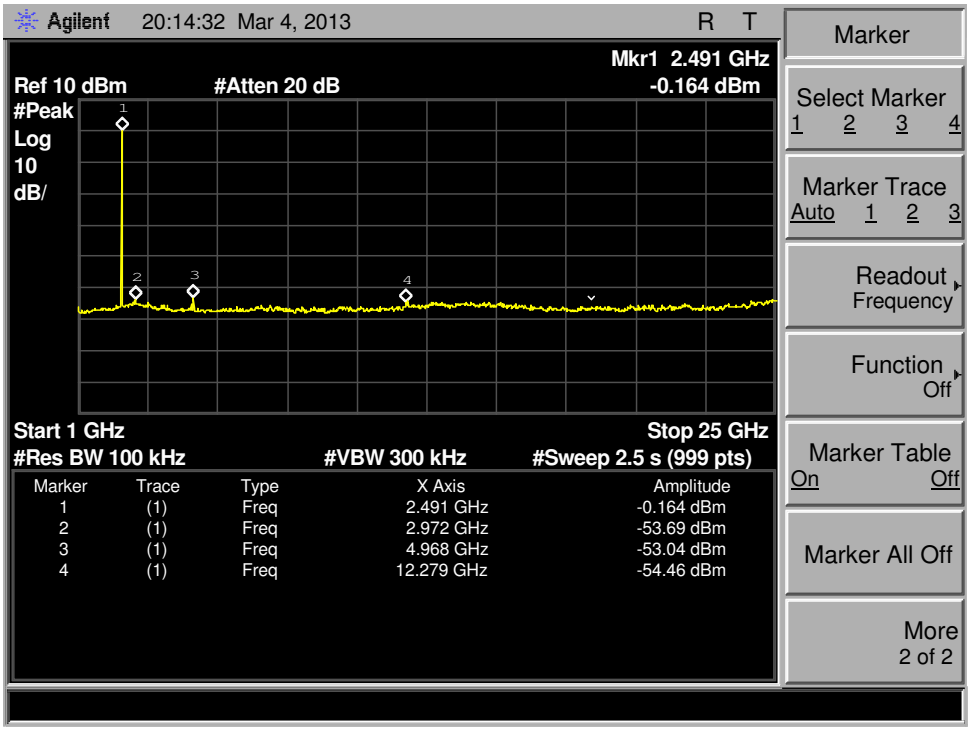
Middle Channel, above 1GHz



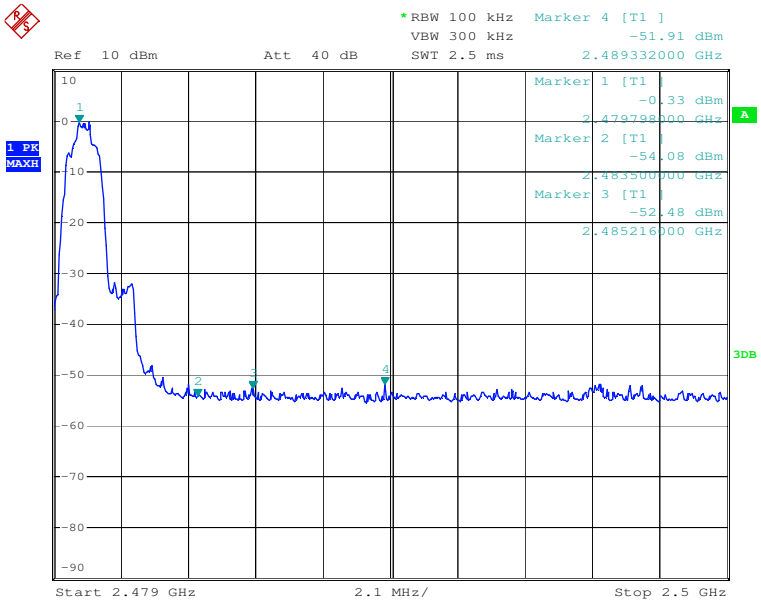
High Channel, below 1GHz



High Channel, above 1GHz



High Channel, Band Edge



Date: 4.MAR.2013 16:32:39

5.1.5 Spurious Emission

RESULT: **Passed**

Date of testing	:	2013-03-04 to 2013-03-07
Test standard	:	FCC part 15.247(d) FCC Part 15.205
Basic standard	:	ANSI C63.4: 2003
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, C
Ambient temperature	:	26℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

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.

5.1.6 Frequency Separation

RESULT: **Passed**

Date of testing	:	2013-03-04
Test standard	:	FCC part 15.247(a)(1)
Basic standard	:	ANSI C63.4: 2003
Limit	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater

Test setup

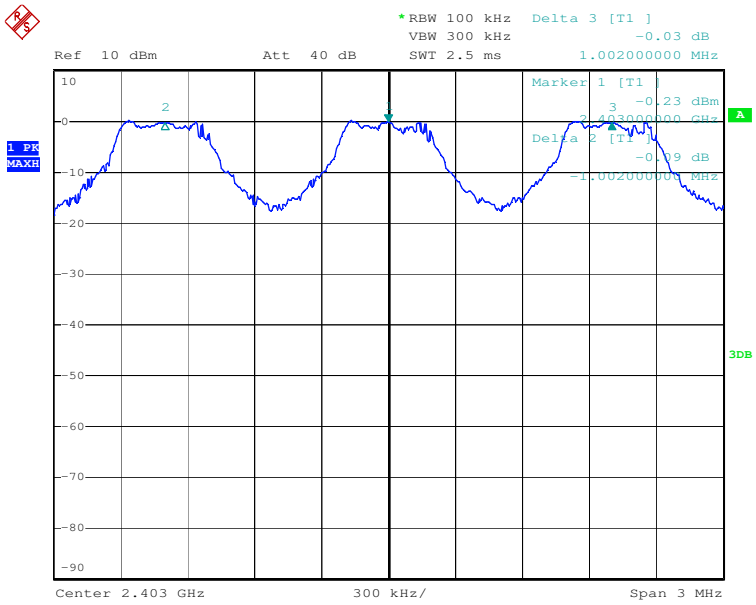
Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 9: 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			

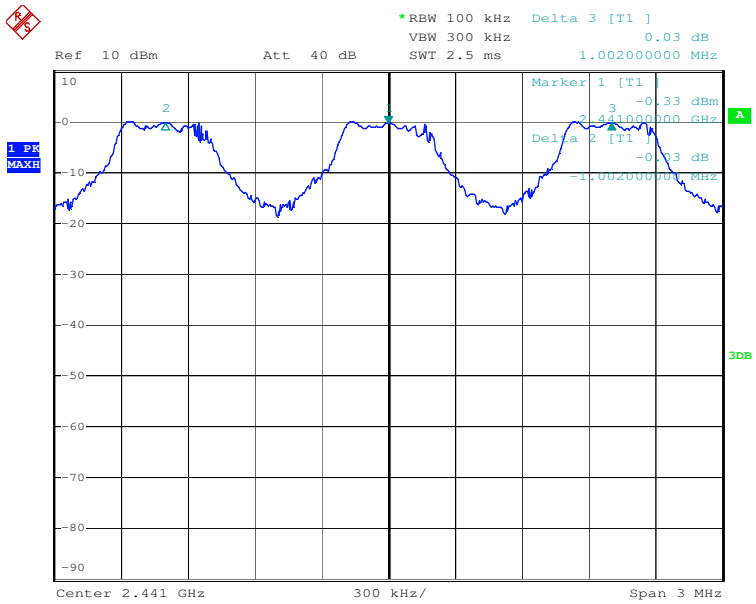
Test Plot of Frequency Separation

Low Channel



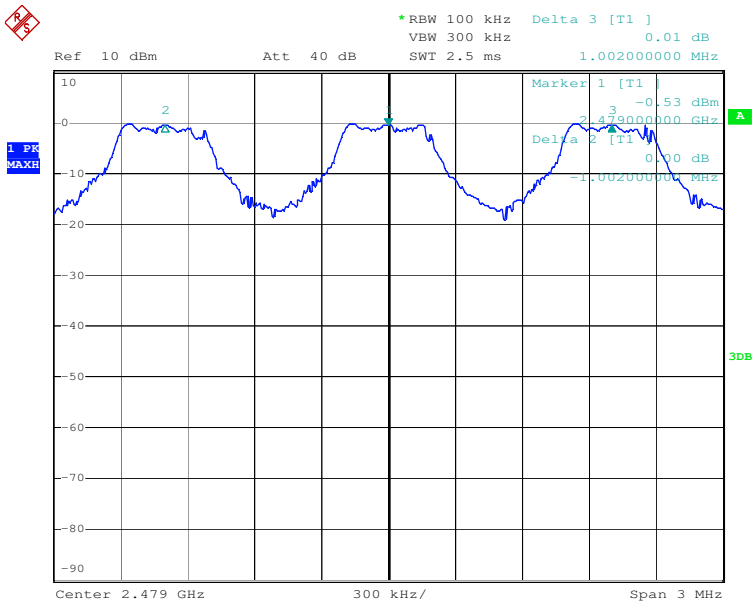
Date: 4.MAR.2013 15:23:01

Middle Channel



Date: 4.MAR.2013 15:18:30

High Channel



Date: 4.MAR.2013 15:26:50

5.1.7 Number of hopping frequency

RESULT: **Passed**

Date of testing	:	2013-03-04
Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.4: 2003
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

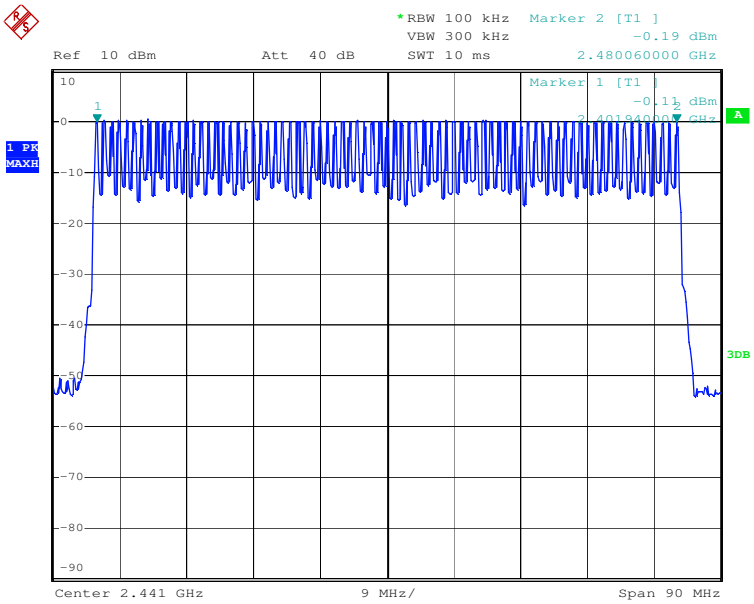
Test setup

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

Table 10: 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



5.1.8 Time of Occupancy

RESULT: **Passed**

Date of testing	:	2013-03-04
Test standard	:	FCC part 15.247(a)(1)(iii)
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	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 11: Test result of Time of Occupancy, GFSK modulation

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.44	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass
Mid Channel	DH1	0.44	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass
High Channel	DH1	0.43	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass

Table 12: 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	0.44	0.14	0.4	Pass
	DH3	1.72	0.28	0.4	Pass
	DH5	3.00	0.32	0.4	Pass
High Channel	DH1	0.45	0.14	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

5.1.9 Conducted emissions

RESULT: **Passed**

Date of testing	:	2013-04-08
Test standard	:	FCC Part 15.207(a)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a)
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz via AC input of Notebook
Operation Mode	:	C
Earthing	:	Not connected
Ambient temperature	:	22℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

5.1.10 Radiated Emission

RESULT: **Passed**

Date of testing	:	2013-04-08
Test standard	:	FCC Part 15 Per Section 15.209(a)
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Test procedure	:	ANSI C63.4: 2003
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Input Voltage	:	AC 120V, 60Hz via AC input of Notebook
Operation mode	:	C
Earthing	:	Not connected
Ambient temperature	:	Refer to Appendix 1
Relative humidity	:	Refer to Appendix 1
Atmospheric pressure	:	Refer to Appendix 1

Test data refer to Appendix 1.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

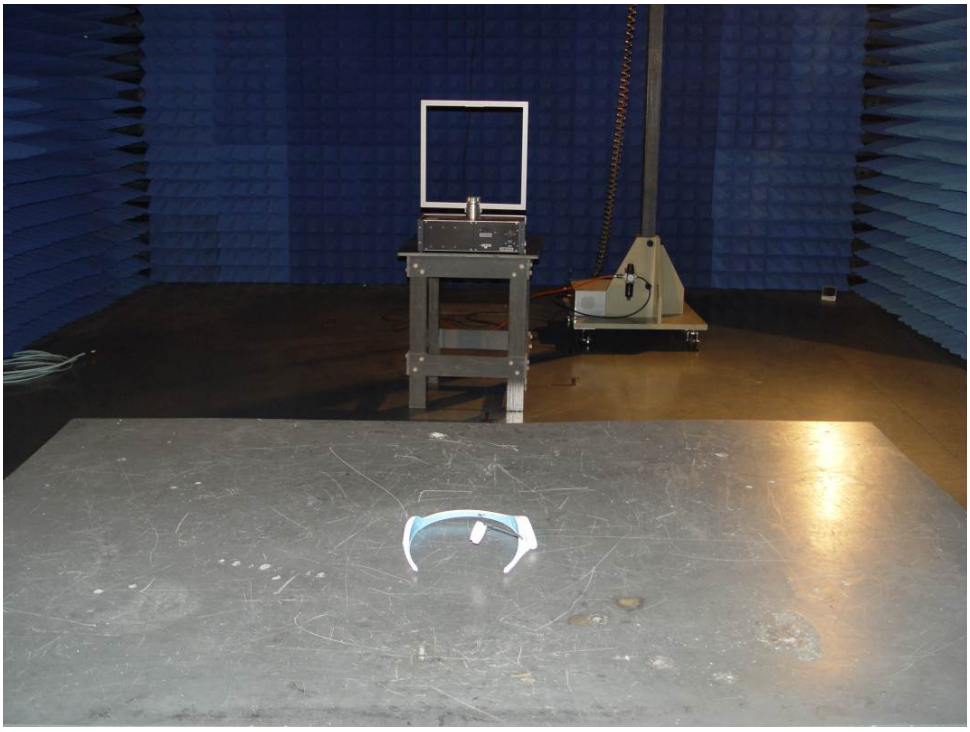
RESULT: **Passed**

Test standard : FCC KDB Publication 447498

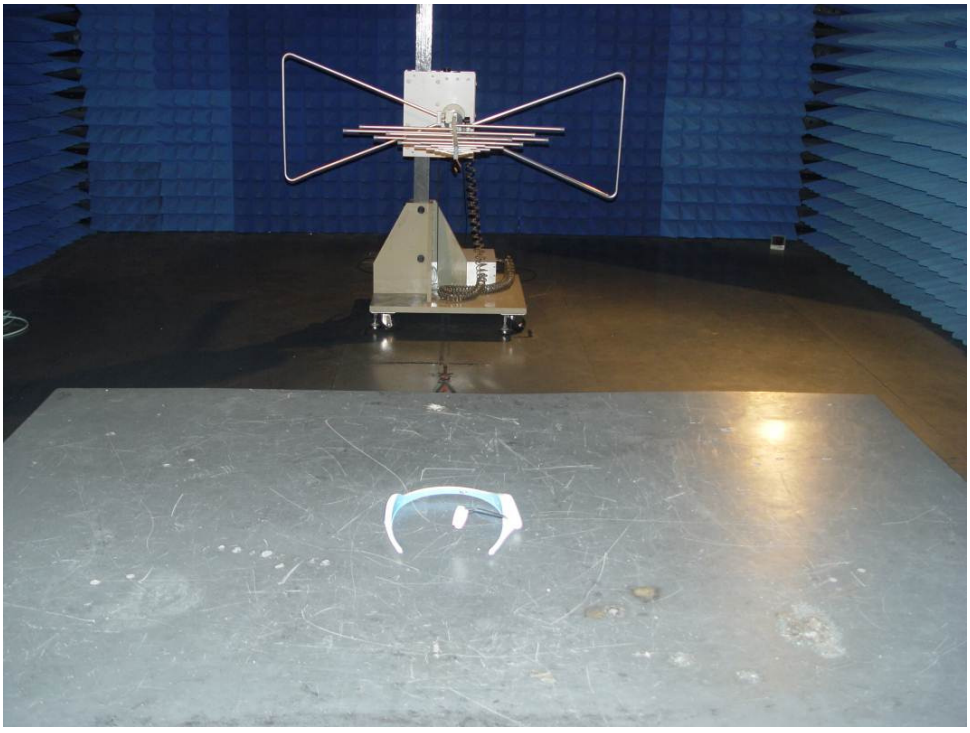
The minimum distance for the EUT is 5mm, since maximum peak output power of the transmitter is 1.94mW <10mW, hence the EUT is exclueded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure.Guidance v05.

7. Photographs of the Test Set-Up

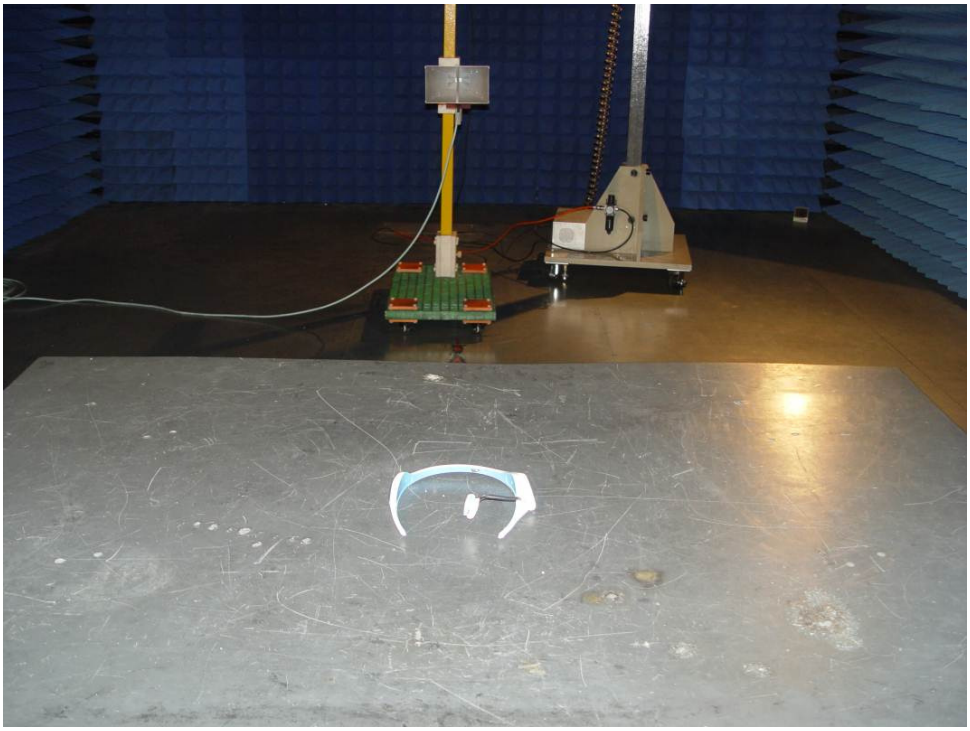
Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)



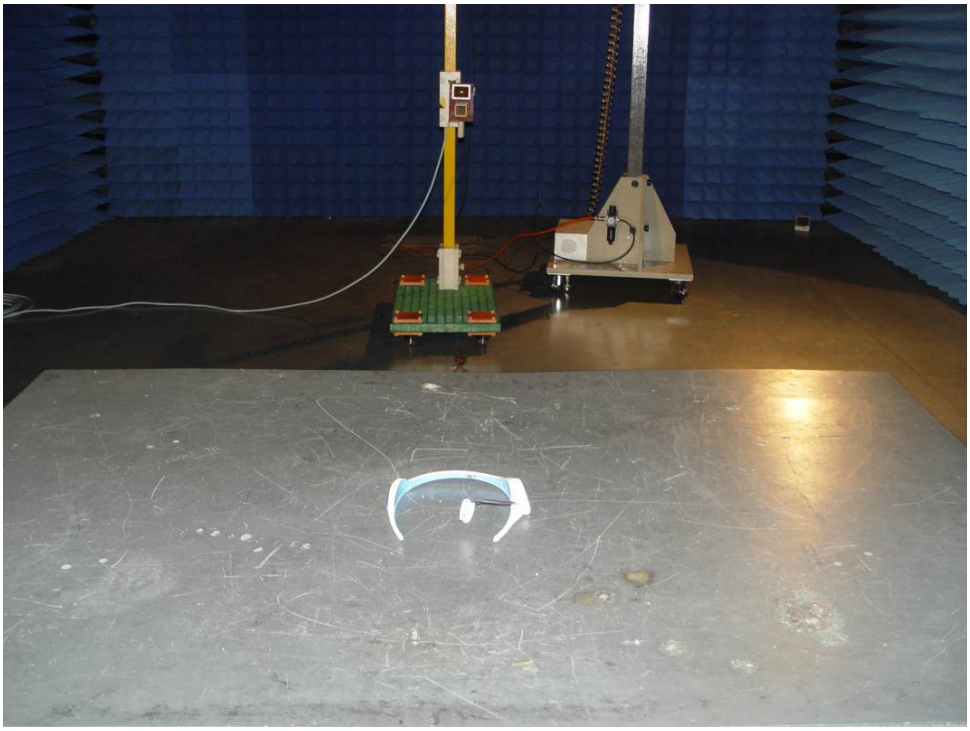
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)



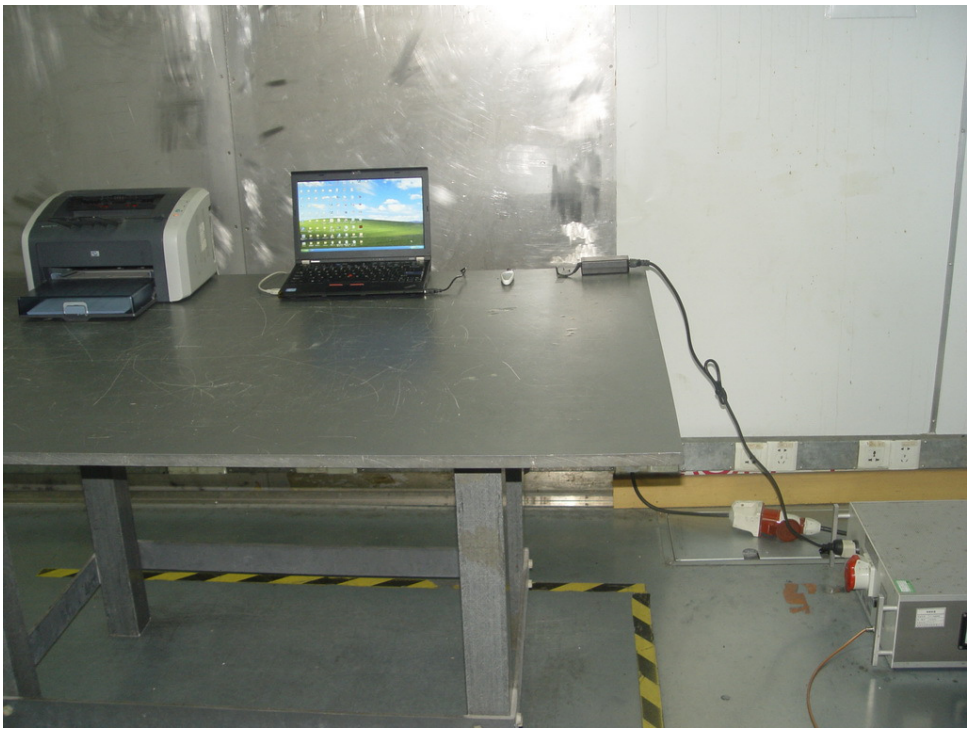
Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz)



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

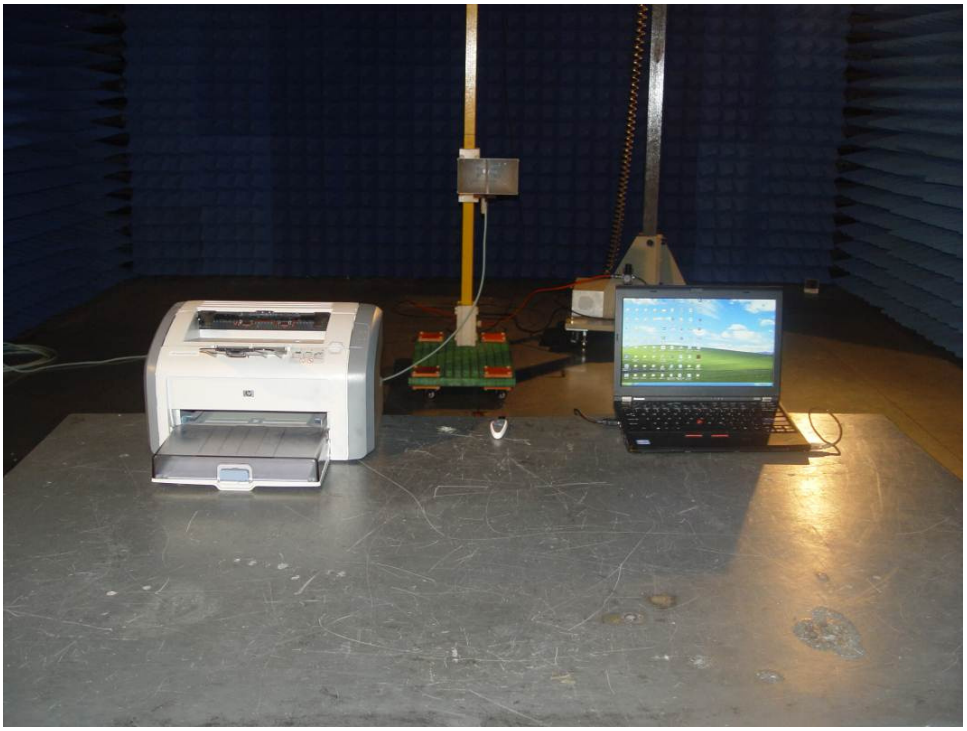


Photograph 5: Set-up for Conducted Emissions



Photograph 6: Set-up for Radiated Emissions, below 1GHz

Photograph 7: Set-up for Radiated Emissions, above 1GHz

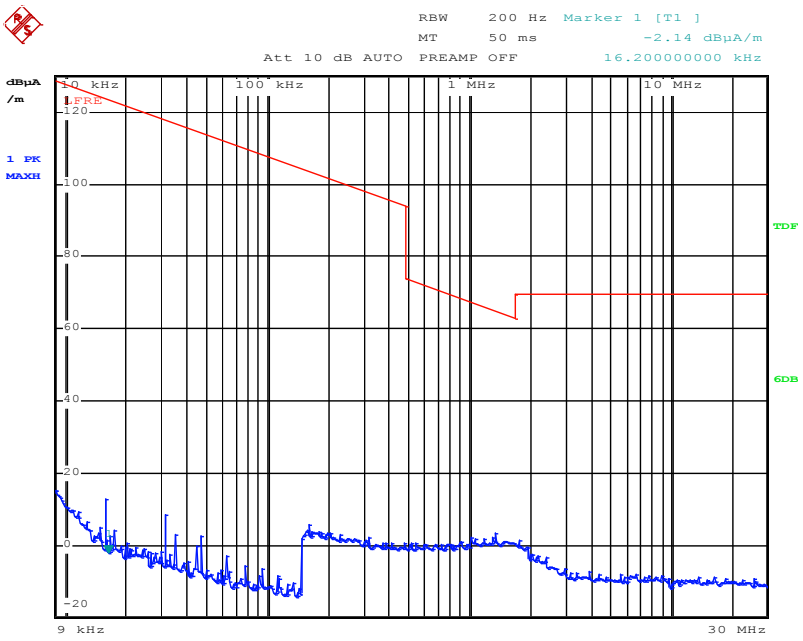


8. List of Tables

9. List of Photographs

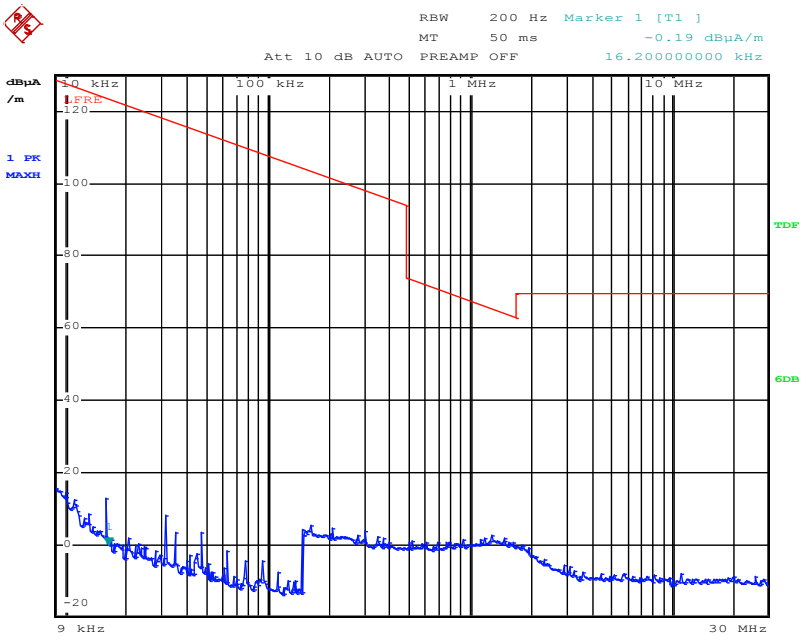
List of Figures

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



Date: 5.MAR.2013 08:52:53

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



Date: 5.MAR.2013 08:55:24

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

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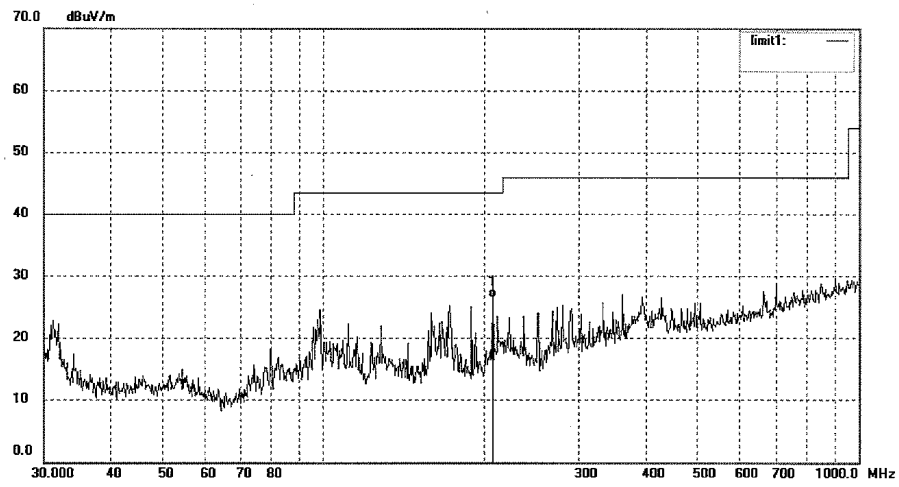
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #1154	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/06/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 11/44/06
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	208.0067	38.73	-12.22	26.51	43.50	-16.99	QP			

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

ACCURATE TECHNOLOGY CO., LTD.
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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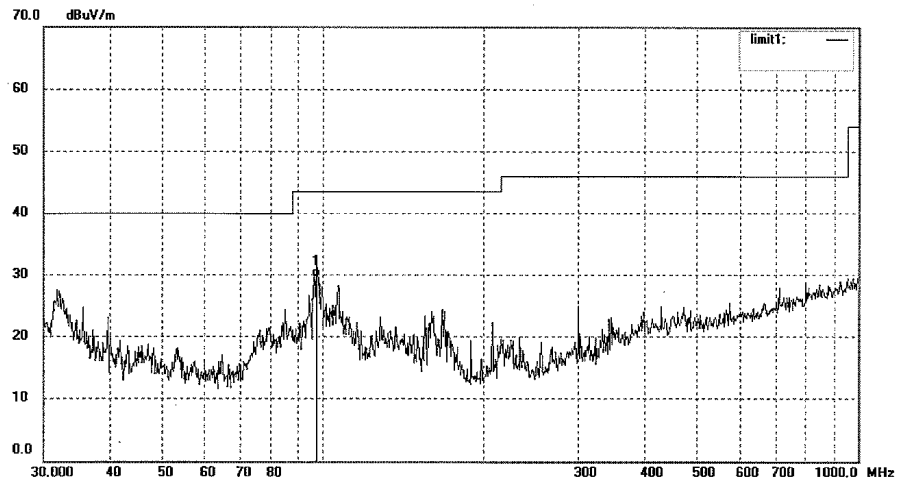
Fax:+86-0755-26503396

Job No.: PYH #1153	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/06/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 11/36/23
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.6437	42.06	-12.45	29.61	43.50	-13.89	QP			

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

ACCURATE TECHNOLOGY CO., LTD.
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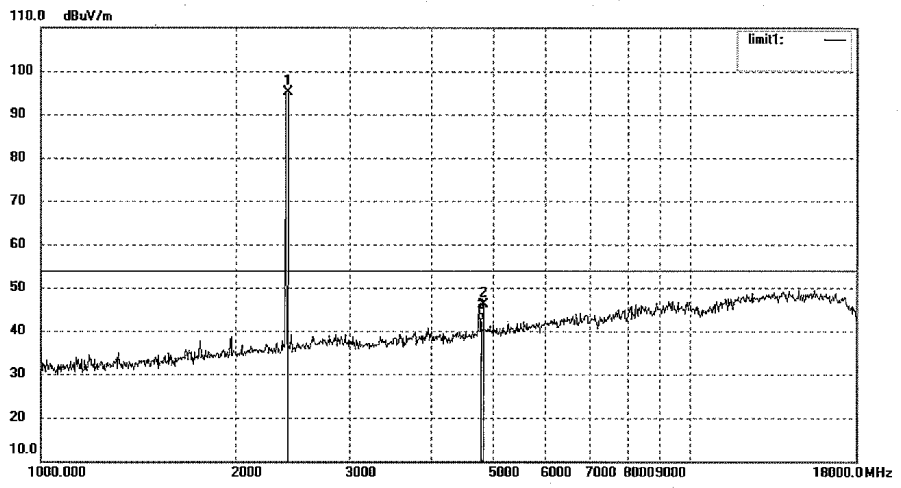
Job No.: PYH #1062	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8:45:25
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2402.000	102.54	-7.45	95.09	/	/	peak			
2	4804.020	46.39	-0.30	46.09	74.00	-27.91	peak			
3	4804.020	42.75	-0.30	42.45	54.00	-11.55	AVG			

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

ACCURATE TECHNOLOGY CO., LTD.
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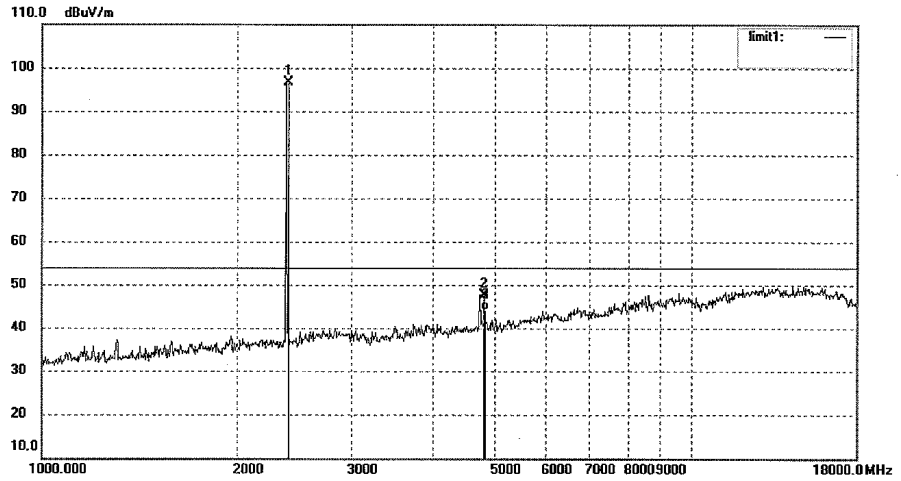
Job No.: PYH #1061	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8:33:55
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2402.000	104.01	-7.45	96.56	/	/	peak			
2	4804.015	48.02	-0.30	47.72	74.00	-26.28	peak			
3	4804.015	44.48	-0.30	44.18	54.00	-9.82	AVG			

Figure 7: Test figure of spurious emissions, mode A.1, 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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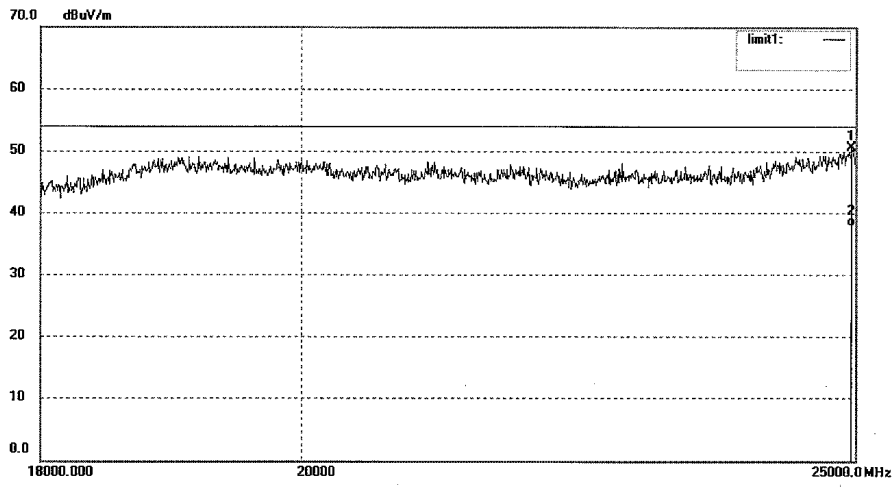
Job No.: PYH #1117	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 15:46:55
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	31.84	18.85	50.69	74.00	-23.31	peak			
2	24967.105	19.03	18.85	37.88	54.00	-16.12	AVG			

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

ACCURATE TECHNOLOGY CO., LTD.
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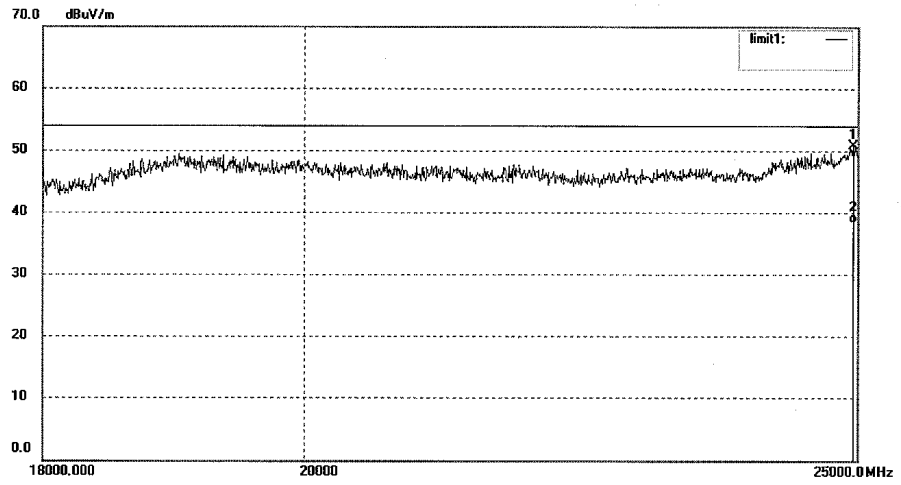
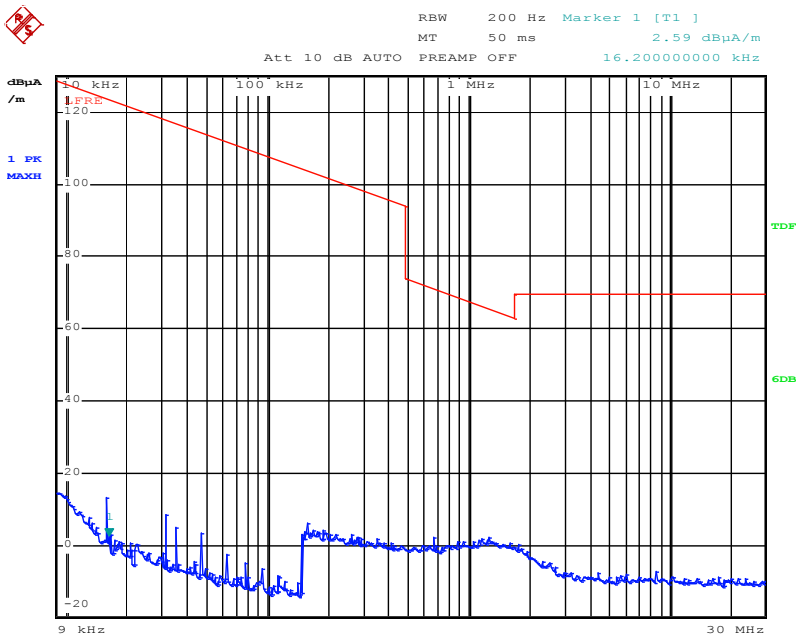
Job No.: PYH #1118	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 15:55:48
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note: BDR



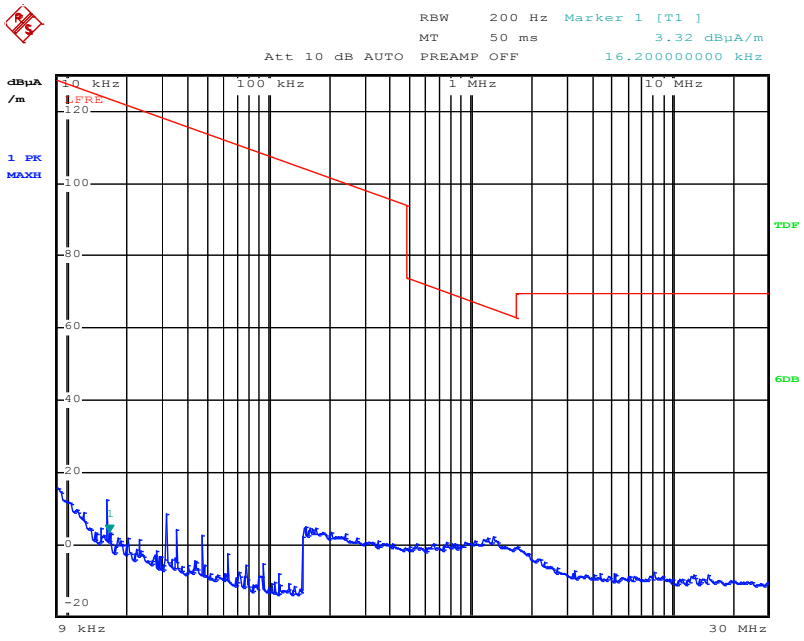
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24958.889	31.98	18.84	50.82	74.00	-23.18	peak			
2	24958.889	19.63	18.84	38.47	54.00	-15.53	AVG			

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



Date: 5.MAR.2013 08:59:20

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



Date: 5.MAR.2013 09:01:18

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

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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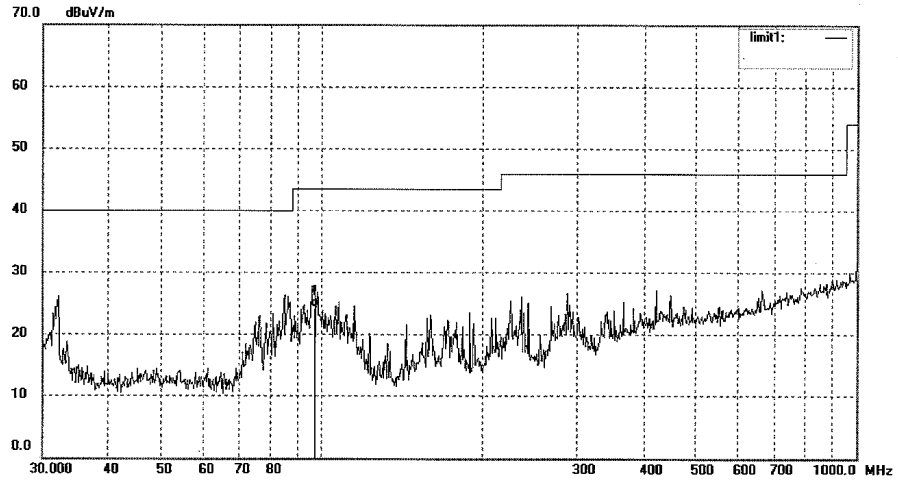
Fax:+86-0755-26503396

Job No.: PYH #1159	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8/34/43
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.6229	36.83	-12.45	24.38	43.50	-19.12	QP			

Figure 12: Test figure of spurious emissions, mode A.2, 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
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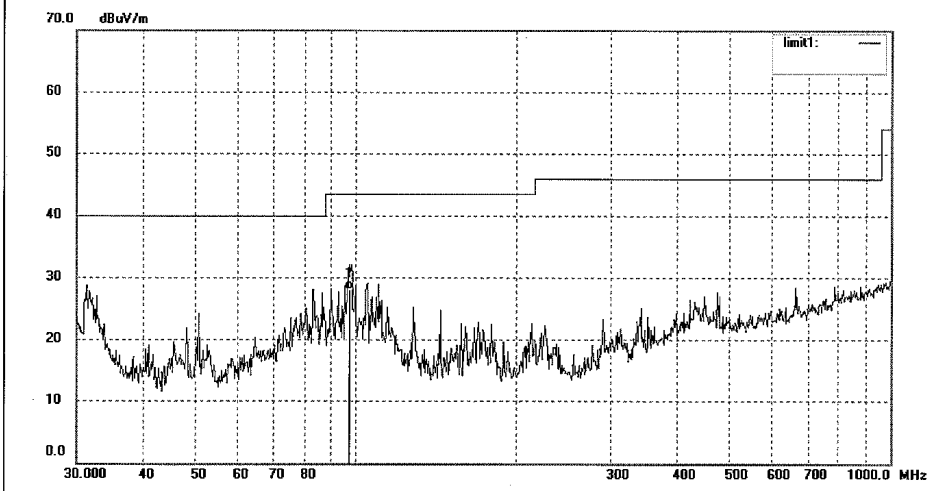
Fax:+86-0755-26503396

Job No.: PYH #1158	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8/25/44
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.6383	40.61	-12.45	28.16	43.50	-15.34	QP			

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

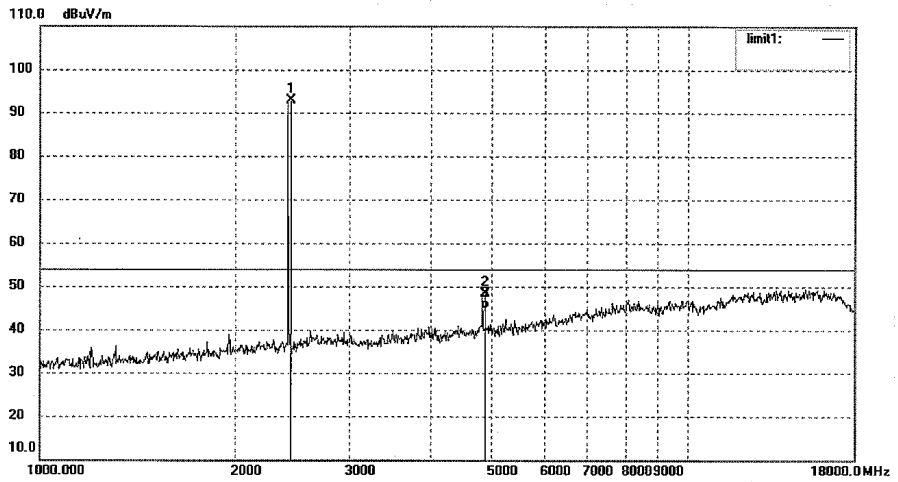
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: PYH #1066
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: Bluetooth Brainwave Sensor
Mode: TX 2441MHz
Model: BL100
Manufacturer: Macrotellect

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2013/03/04
Time: 9:31:59
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	2441.000	100.13	-7.35	92.78	/	/	peak			
2	4882.032	48.23	0.14	48.37	74.00	-25.63	peak			
3	4882.032	44.72	0.14	44.86	54.00	-9.14	AVG			

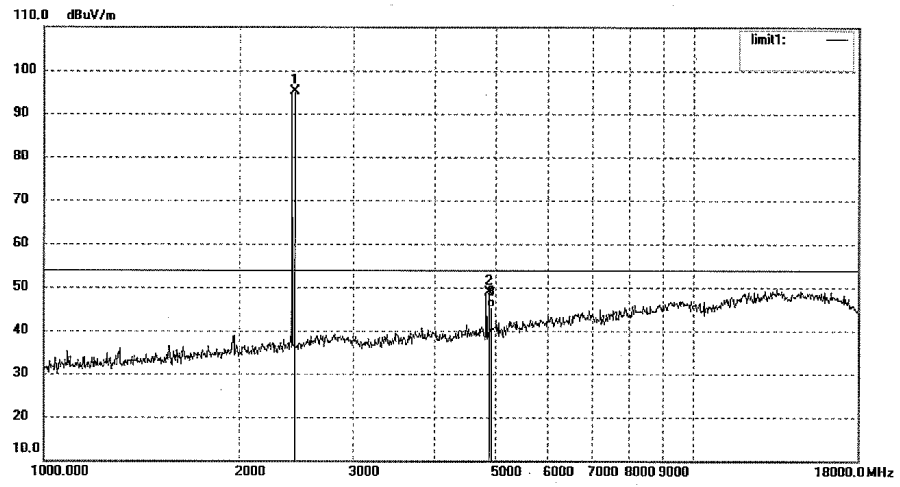
Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), GFSK Modulation

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

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

Job No.: PYH #1065	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9:19:06
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note: BDR



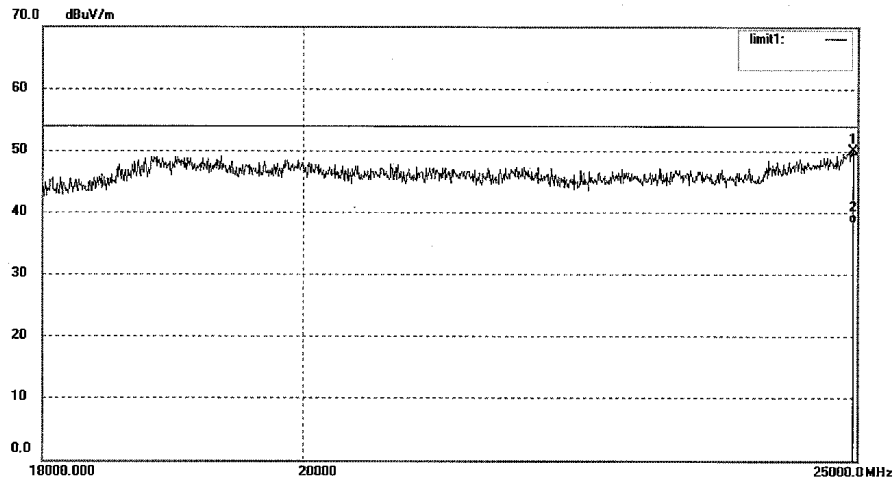
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	102.50	-7.35	95.15	/	/	peak			
2	4882.024	48.84	0.14	48.98	74.00	-25.02	peak			
3	4882.024	45.28	0.14	45.42	54.00	-8.58	AVG			

Figure 15: Test figure of spurious emissions, mode A.2, Horizontal 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: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #1120	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:12:27
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	31.28	18.84	50.12	74.00	-23.88	peak			
2	24958.889	19.57	18.84	38.41	54.00	-15.59	AVG			

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

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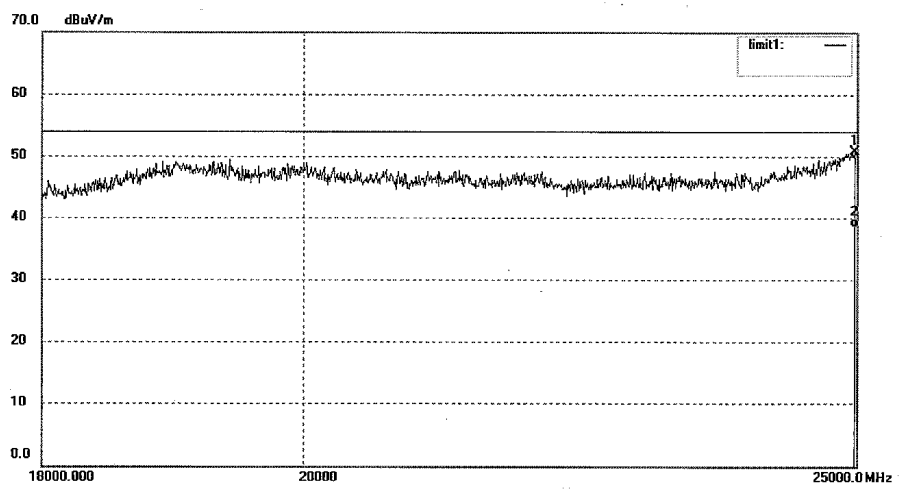
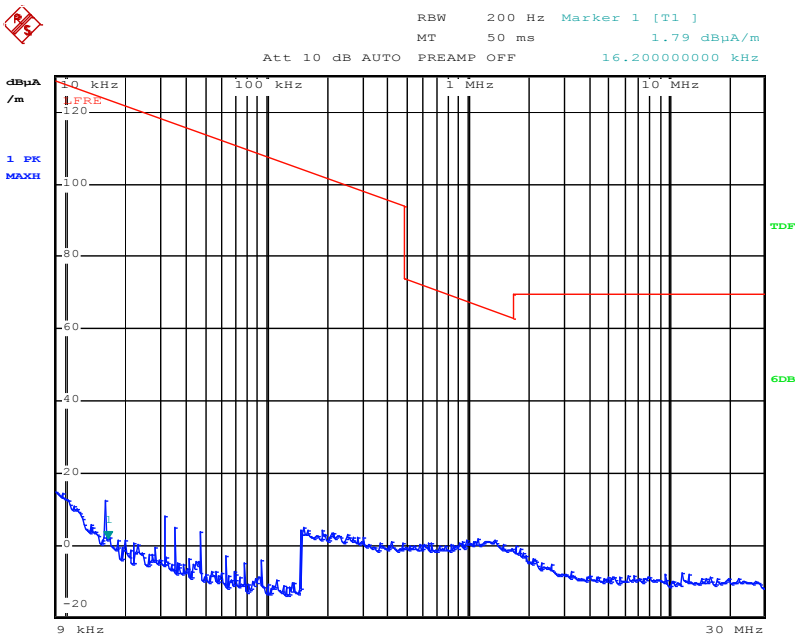
Job No.: PYH #1119	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:04:13
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note: BDR



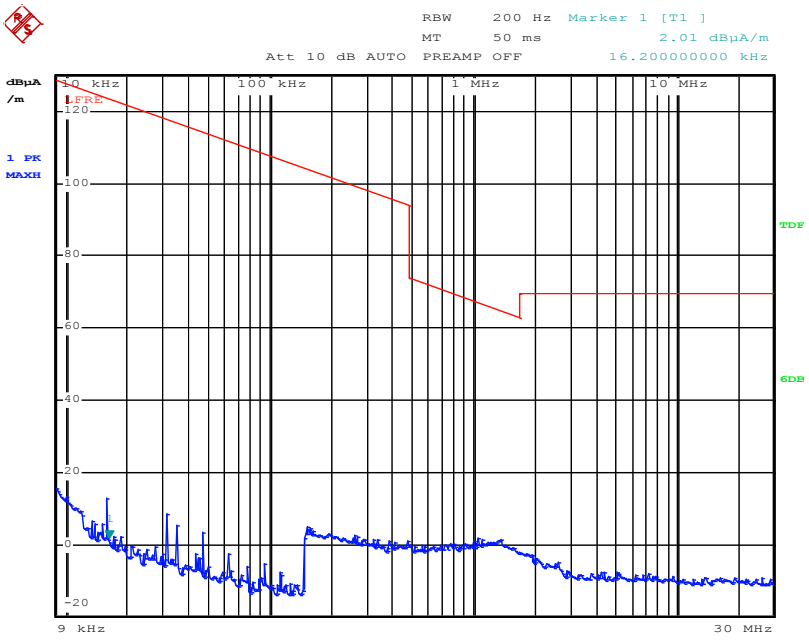
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24983.547	31.93	18.88	50.81	74.00	-23.19	peak			
2	24983.547	19.68	18.88	38.56	54.00	-15.44	AVG			

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



Date: 5.MAR.2013 09:07:16

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



Date: 5.MAR.2013 09:09:14

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

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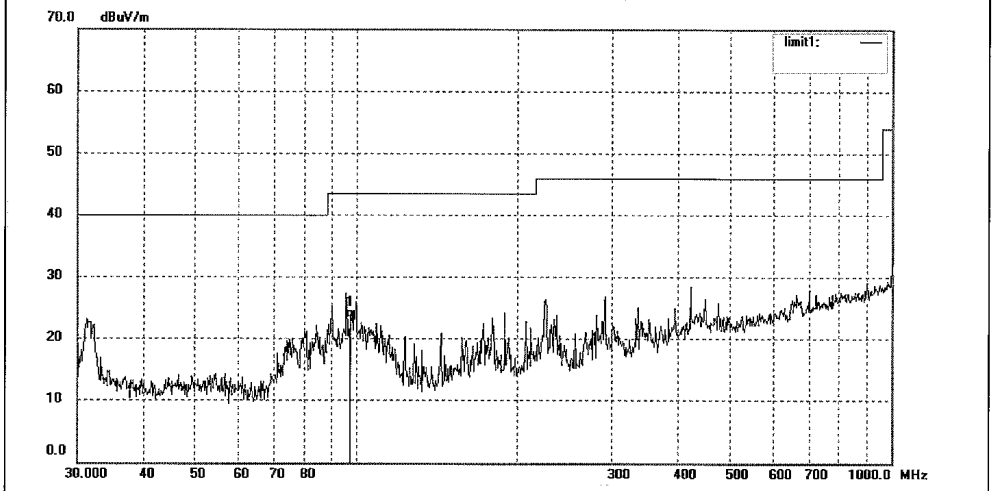
Job No.: PYH #1160	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8/42/51
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	96.8483	35.98	-12.56	23.42	43.50	-20.08	QP			

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

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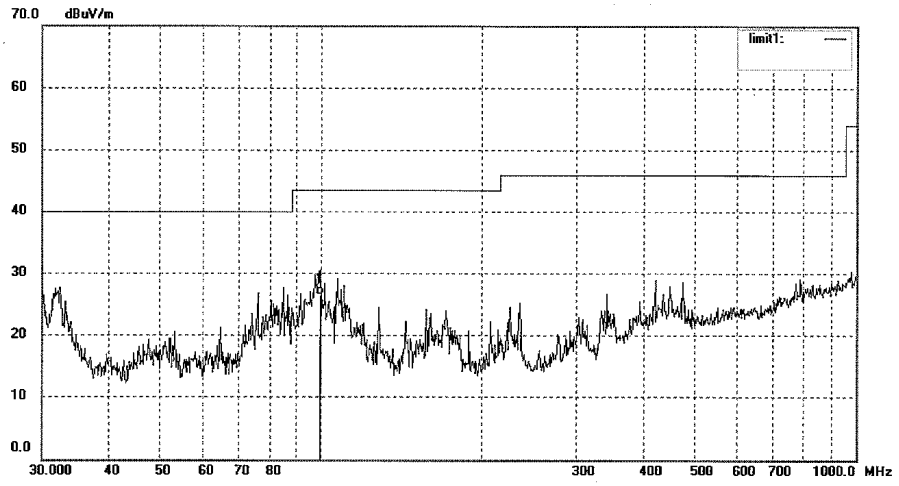
Job No.: PYH #1161	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8/51/42
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	98.4175	38.80	-12.34	26.46	43.50	-17.04	QP			

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

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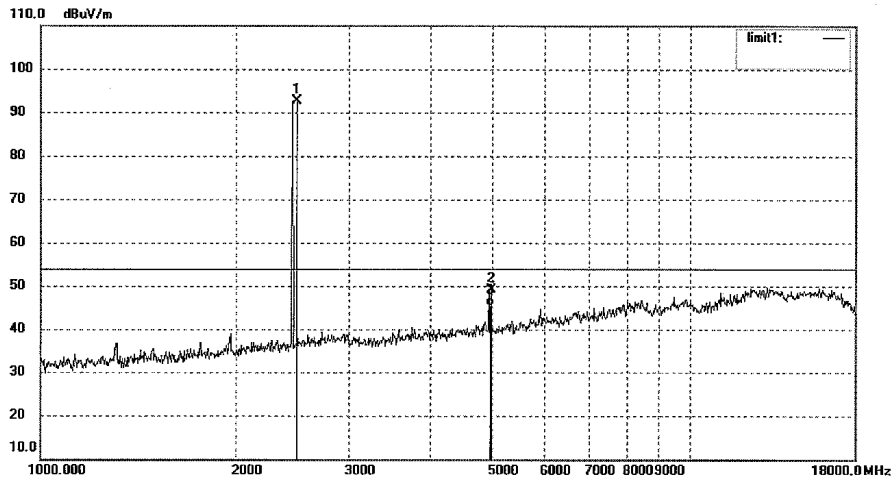
Job No.: PYH #1068	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9:57:48
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2480.000	99.95	-7.37	92.58	/	/	peak			
2	4960.024	48.51	0.52	49.03	74.00	-24.97	peak			
3	4960.024	44.93	0.52	45.45	54.00	-8.55	AVG			

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

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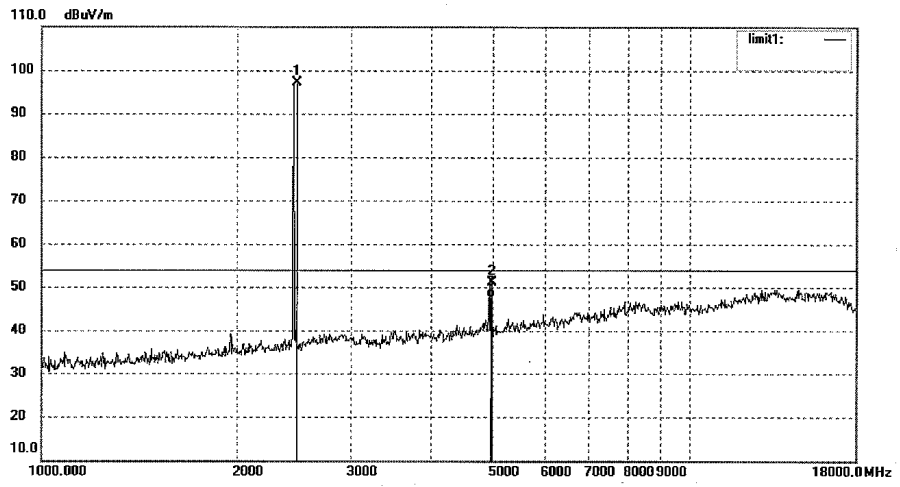
Job No.: PYH #1067	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9:45:02
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2480.000	104.48	-7.37	97.11	/	/	peak			
2	4960.034	50.55	0.52	51.07	74.00	-22.93	peak			
3	4960.034	47.01	0.52	47.53	54.00	-6.47	AVG			

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

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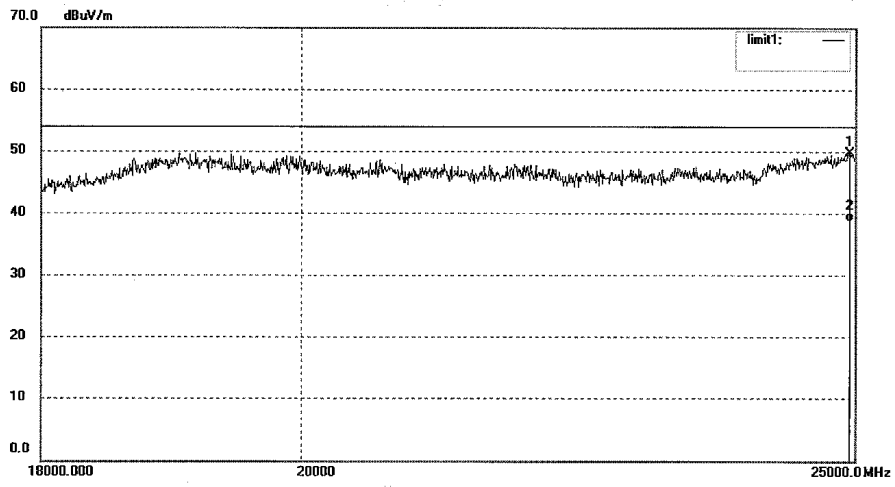
Job No.: PYH #1121	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:20:51
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	30.99	18.83	49.82	74.00	-24.18	peak			
2	24950.674	19.99	18.83	38.82	54.00	-15.18	AVG			

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

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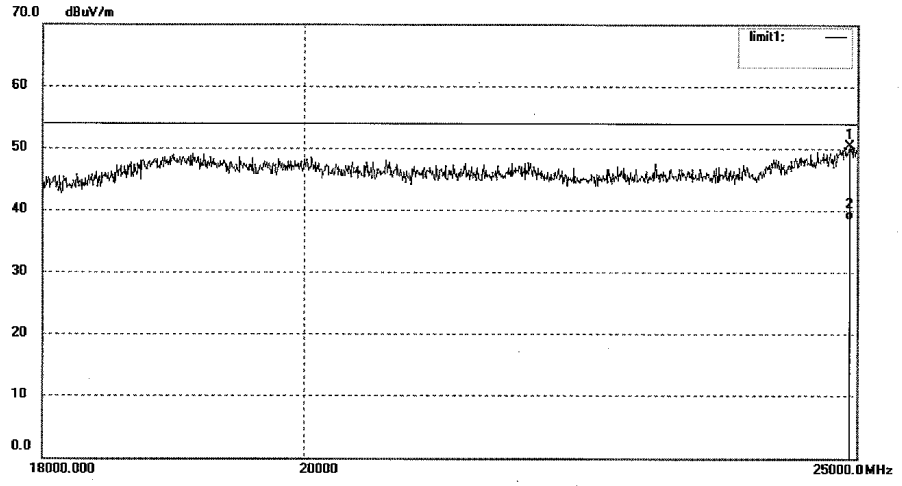
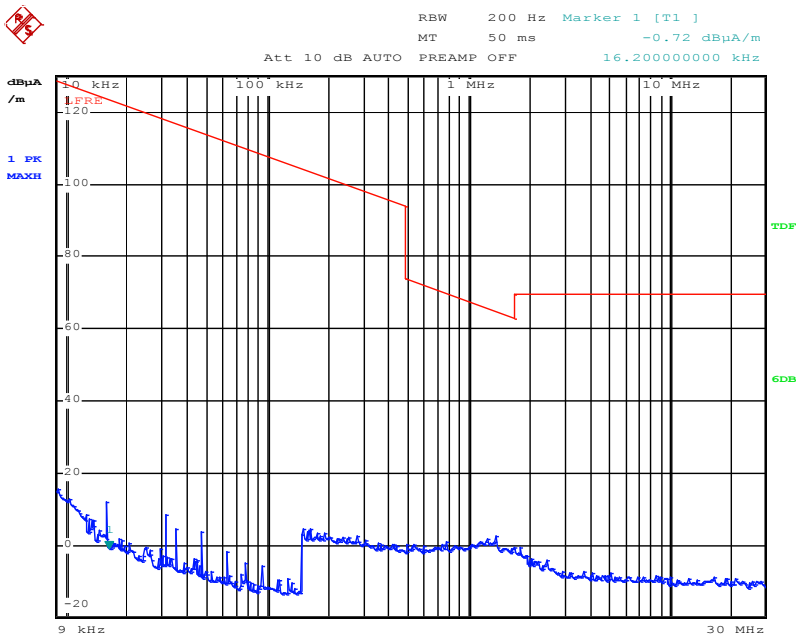
Job No.: PYH #1122	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:28:09
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note: BDR



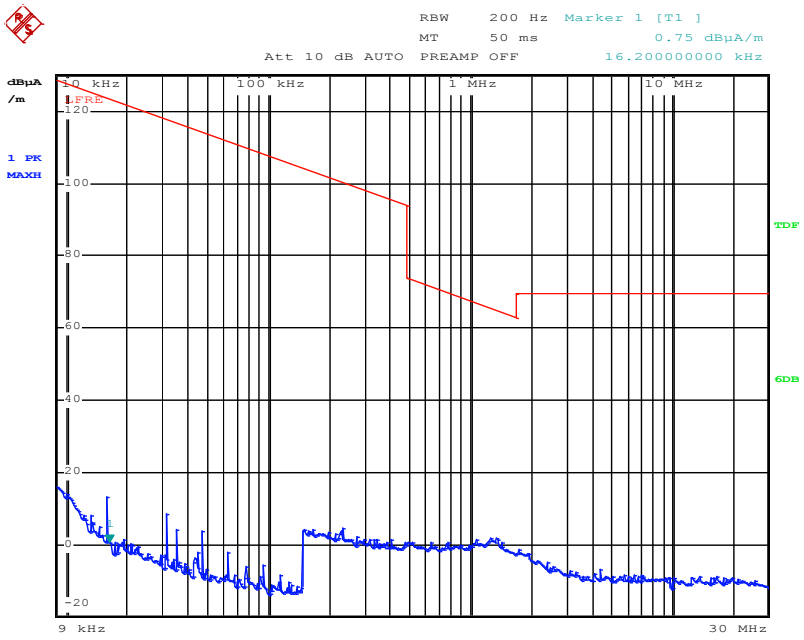
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24934.254	31.64	18.81	50.45	74.00	-23.55	peak			
2	24934.254	19.84	18.81	38.65	54.00	-15.35	AVG			

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



Date: 5.MAR.2013 09:13:11

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



Date: 5.MAR.2013 09:15:18

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

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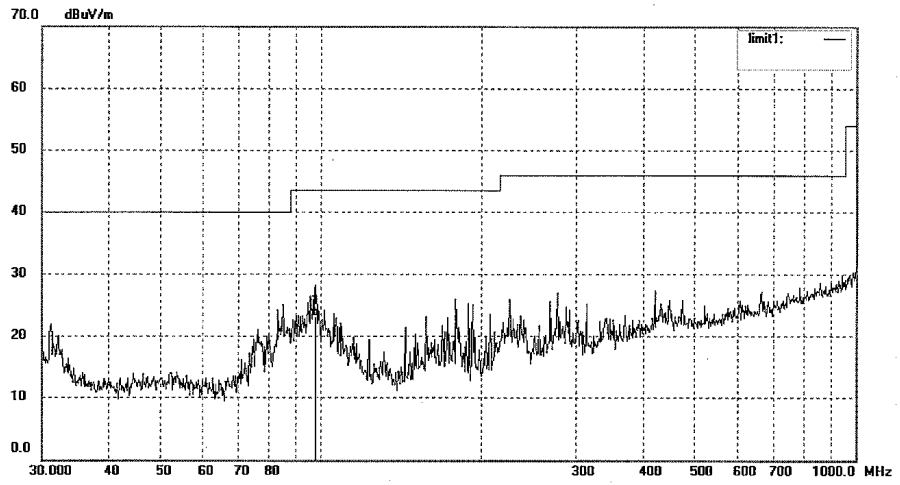
Job No.: PYH #1163	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/08/02
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.6864	35.64	-12.45	23.19	43.50	-20.31	QP			

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

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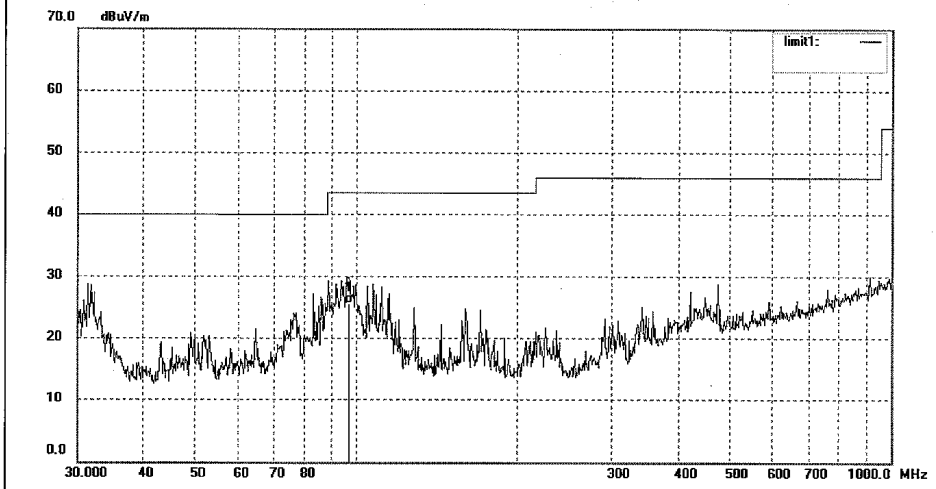
Job No.: PYH #1162	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8/59/55
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.5852	38.04	-12.46	25.58	43.50	-17.92	QP			

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

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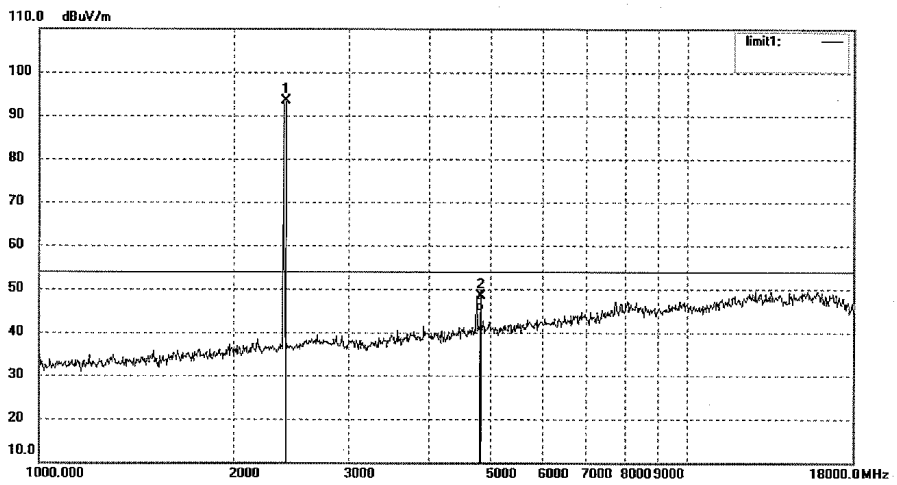
Job No.: PYH #1072
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: Bluetooth Brainwave Sensor
Mode: TX 2402MHz
Model: BL100
Manufacturer: Macrotellect

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2013/03/04
Time: 10:47:04
Engineer Signature: PEI
Distance: 3m

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	2402.000	100.82	-7.45	93.37	/	/	peak			
2	4804.028	48.79	-0.30	48.49	74.00	-25.51	peak			
3	4804.028	45.18	-0.30	44.88	54.00	-9.12	AVG			

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

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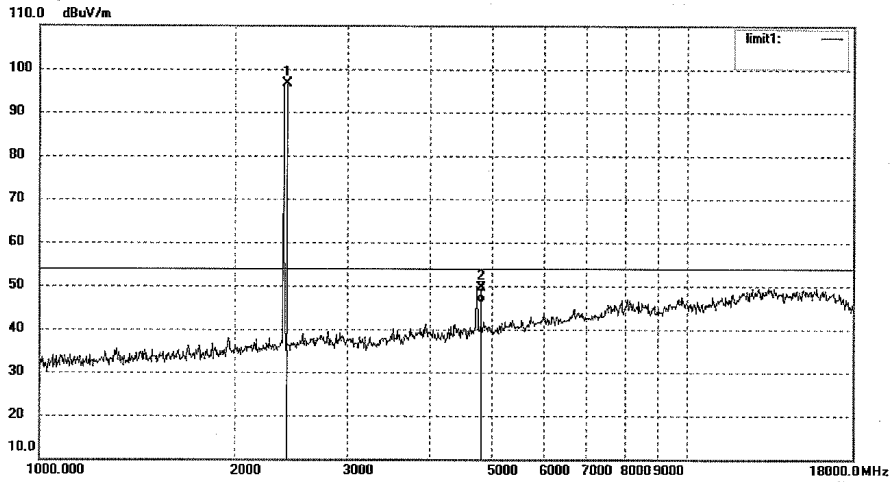
Job No.: PYH #1071
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: Bluetooth Brainwave Sensor
Mode: TX 2402MHz
Model: BL100
Manufacturer: Macrotellect

Polarization: Vertical
Power Source: DC 3.7V
Date: 2013/03/04
Time: 10:36:20
Engineer Signature: PEI
Distance: 3m

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	2402.000	104.12	-7.45	96.67	/	/	peak			
2	4804.035	50.02	-0.30	49.72	74.00	-24.28	peak			
3	4804.035	46.44	-0.30	46.14	54.00	-7.86	AVG			

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

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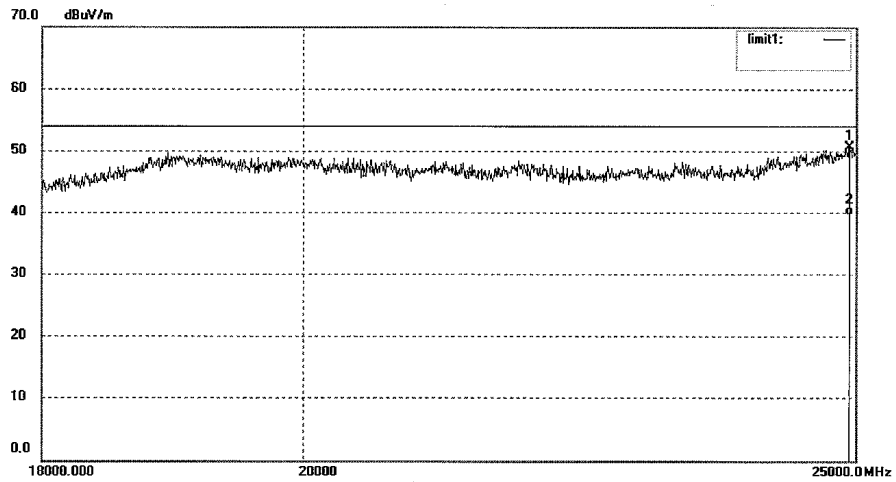
Job No.: PYH #1126	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 17:01:09
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	31.89	18.82	50.71	74.00	-23.29	peak			
2	24942.463	20.89	18.82	39.71	54.00	-14.29	AVG			

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

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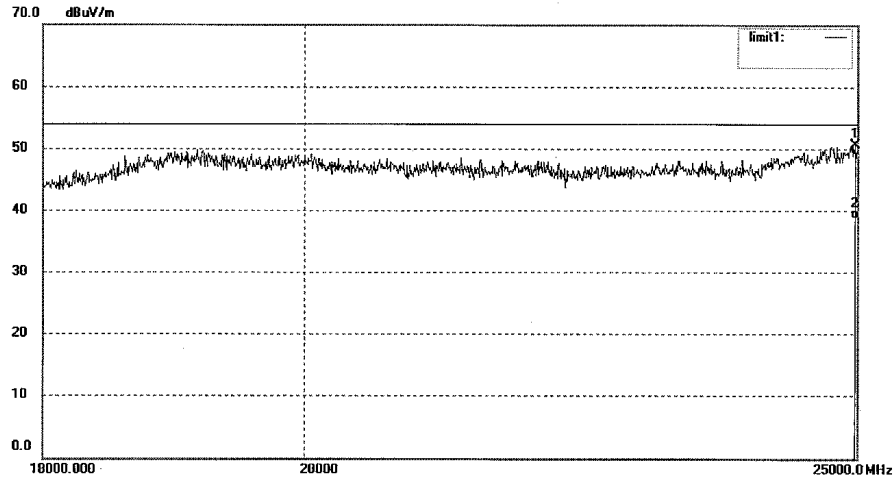
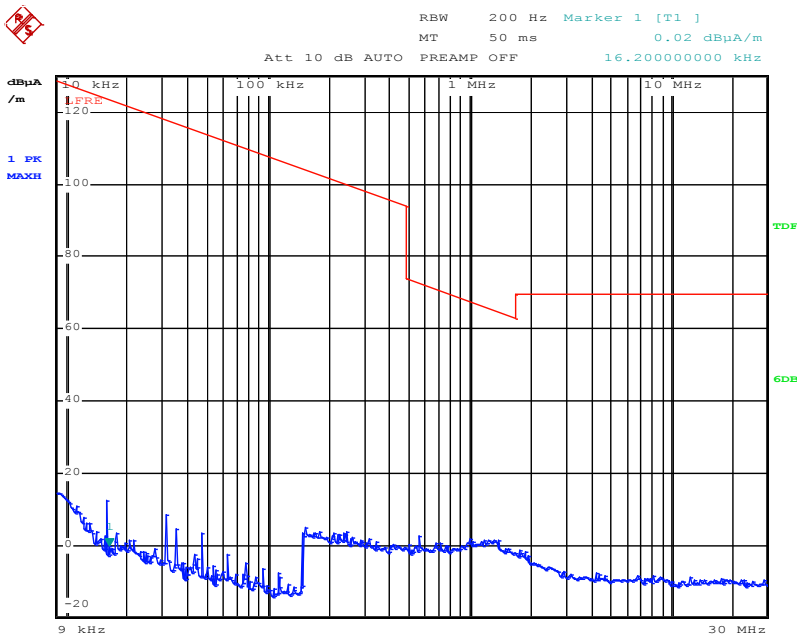
Job No.: PYH #1125	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:53:50
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note: EDR



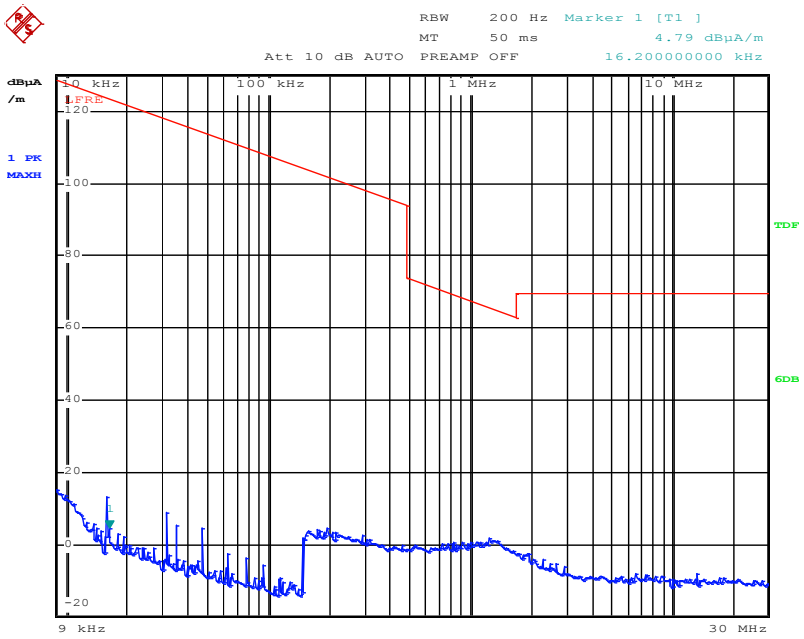
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24983.547	31.85	18.88	50.73	74.00	-23.27	peak			
2	24983.547	19.85	18.88	38.73	74.00	-35.27	AVG			

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



Date: 5.MAR.2013 09:19:23

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



Date: 5.MAR.2013 09:21:25

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

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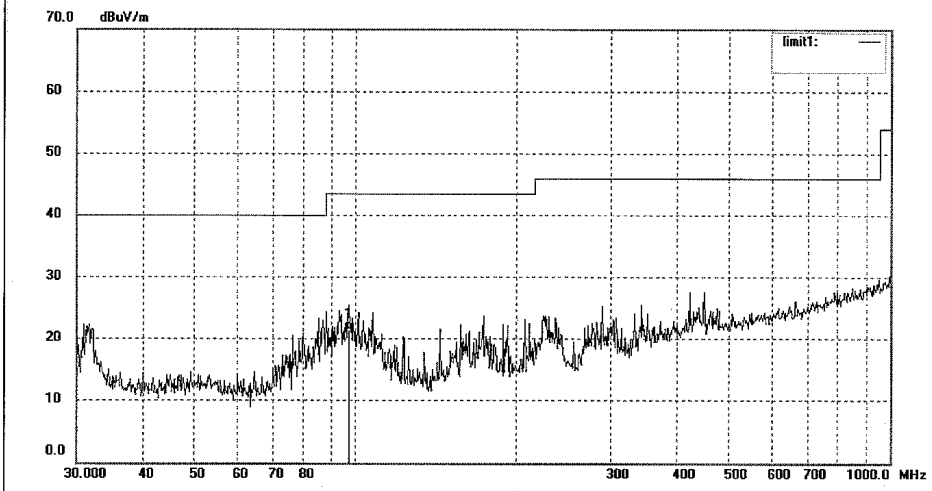
Job No.: PYH #1164	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/16/54
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.3523	34.00	-12.49	21.51	43.50	-21.99	QP			

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

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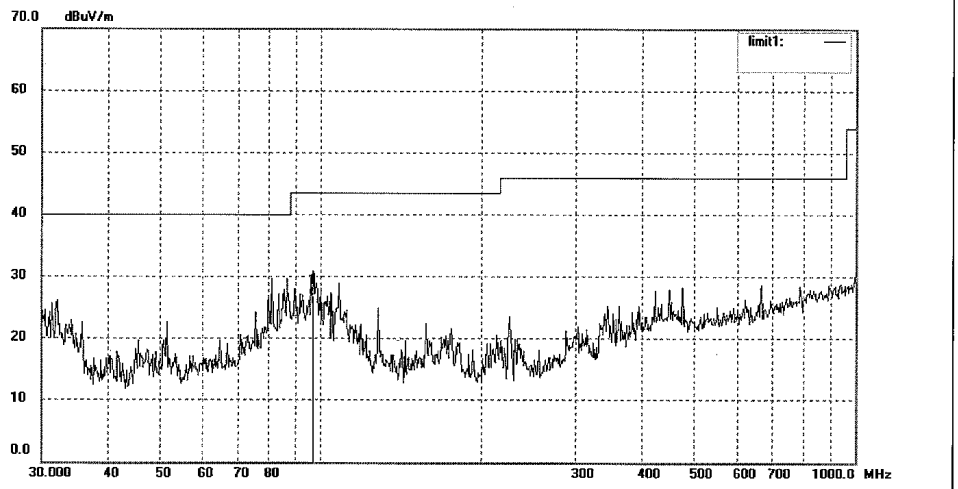
Job No.: PYH #1165	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/24/07
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.6620	39.33	-12.45	26.88	43.50	-16.62	QP			

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

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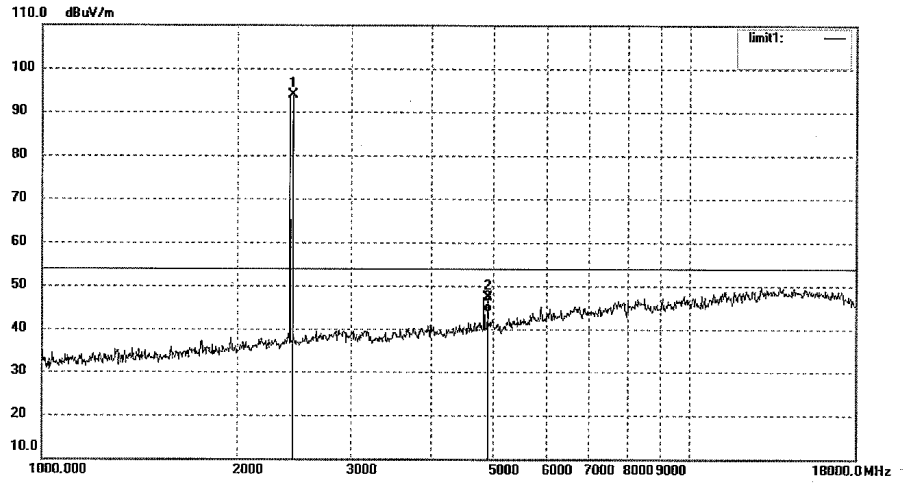
Job No.: PYH #1076
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: Bluetooth Brainwave Sensor
Mode: TX 2441MHz
Model: BL100
Manufacturer: Macrotellect

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2013/03/05
Time: 8:31:38
Engineer Signature: PEI
Distance: 3m

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	2441.000	101.12	-7.35	93.77	/	/	peak			
2	4882.020	47.25	0.14	47.39	74.00	-26.61	peak			
3	4882.020	43.68	0.14	43.82	54.00	-10.18	AVG			

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

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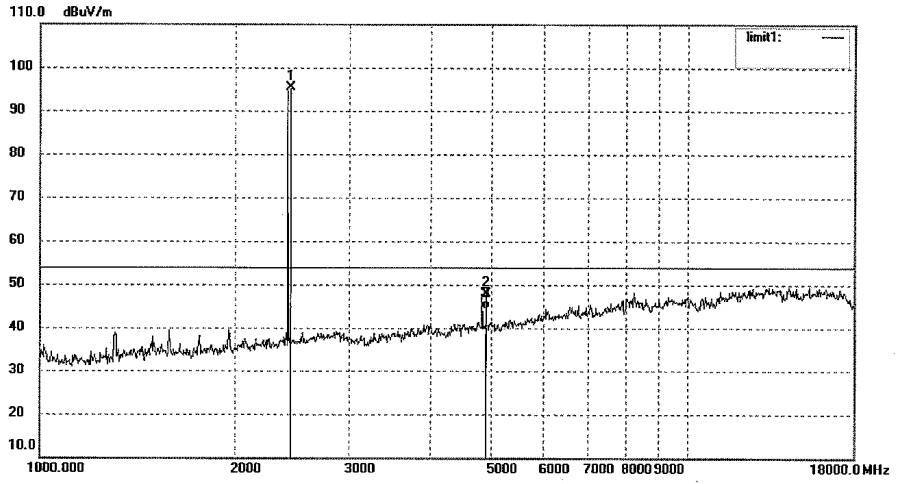
Job No.: PYH #1075	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8:21:11
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2441.000	102.65	-7.35	95.30	/	/	peak			
2	4882.018	47.78	0.14	47.92	74.00	-26.08	peak			
3	4882.018	44.16	0.14	44.30	54.00	-9.70	AVG			

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

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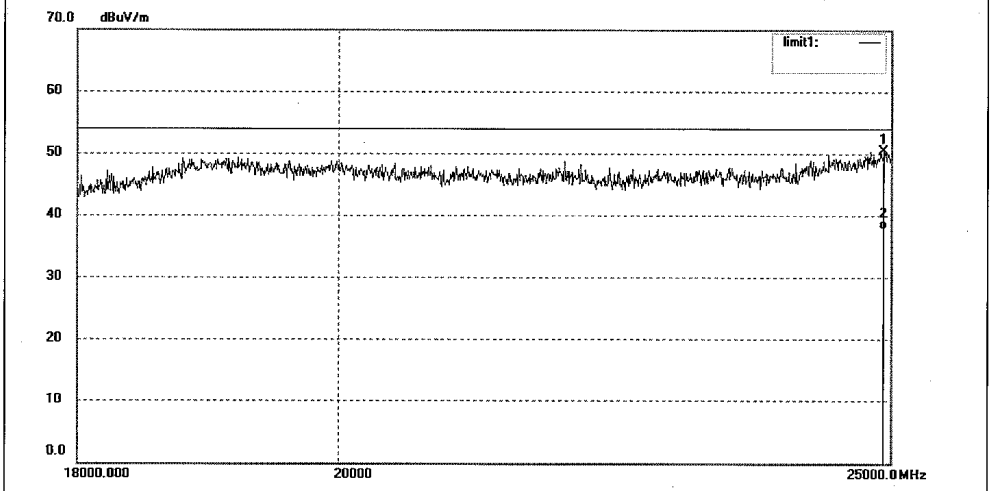
Job No.: PYH #1127	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 17:11:21
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	31.74	18.81	50.55	74.00	-23.45	peak			
2	24934.254	19.14	18.81	37.95	54.00	-16.05	AVG			

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

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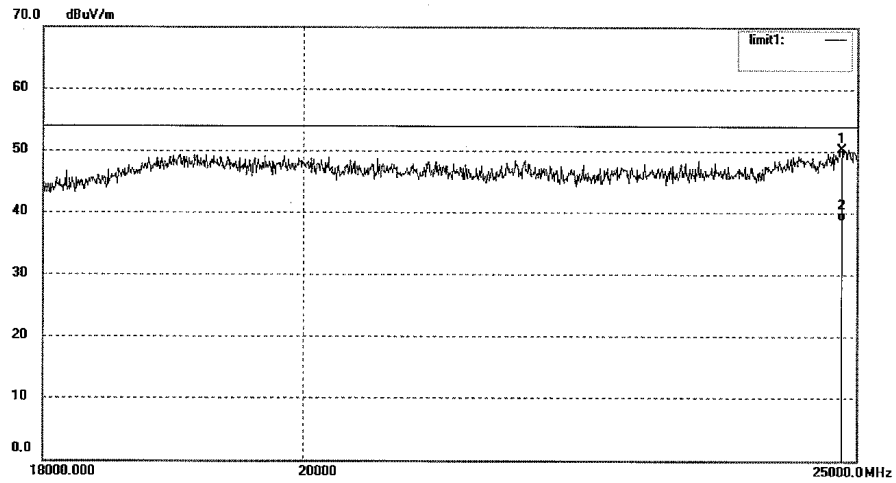
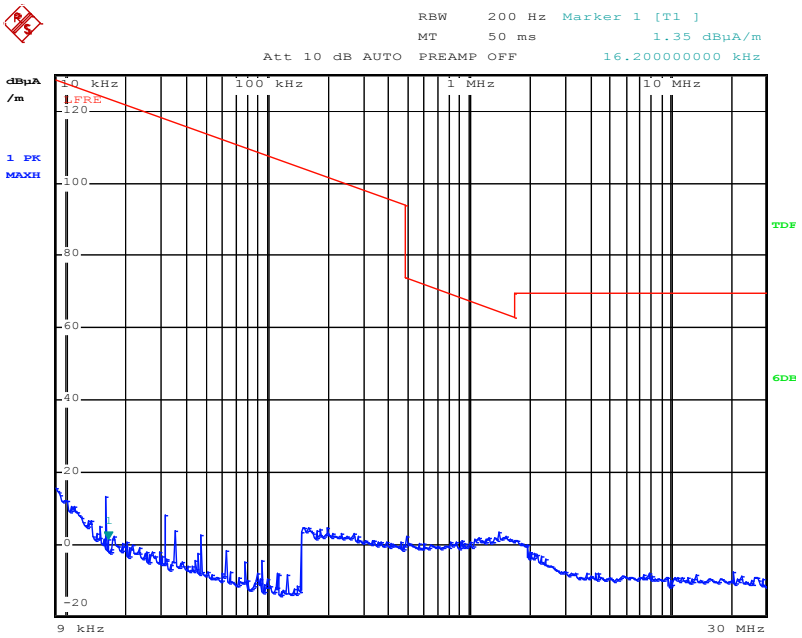
Job No.: PYH #1128	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 17:19:38
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2441Hz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note: EDR



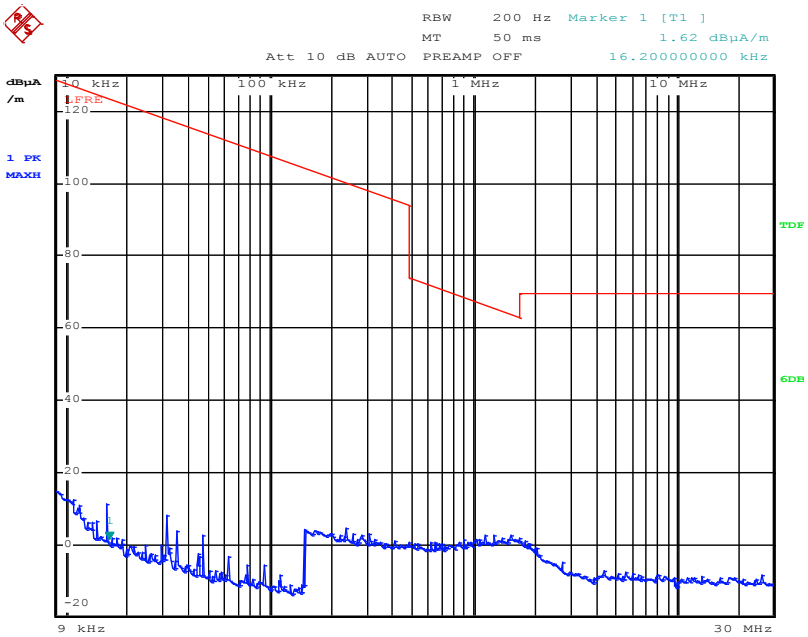
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24852.315	31.60	18.69	50.29	74.00	-23.71	peak			
2	24852.315	20.00	18.69	38.69	54.00	-15.31	AVG			

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



Date: 5.MAR.2013 08:46:57

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



Date: 5.MAR.2013 08:48:56

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

ACCURATE TECHNOLOGY CO., LTD.
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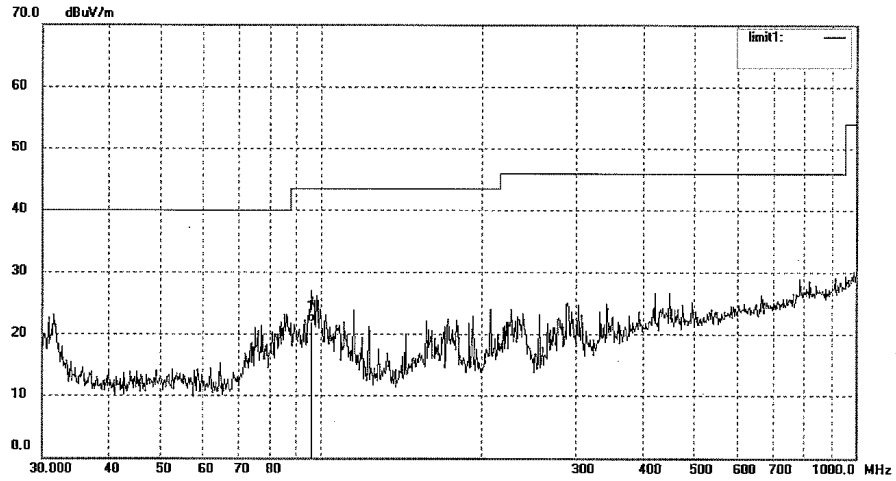
Job No.: PYH #1167	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/42/31
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	96.5985	34.55	-12.59	21.96	43.50	-21.54	QP			

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

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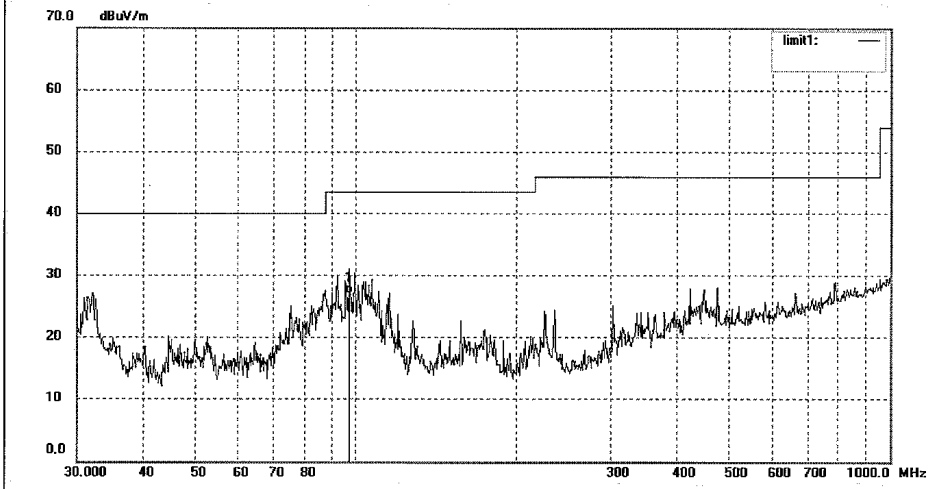
Job No.: PYH #1166	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/07/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/33/13
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.5434	39.44	-12.46	26.98	43.50	-16.52	QP			

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

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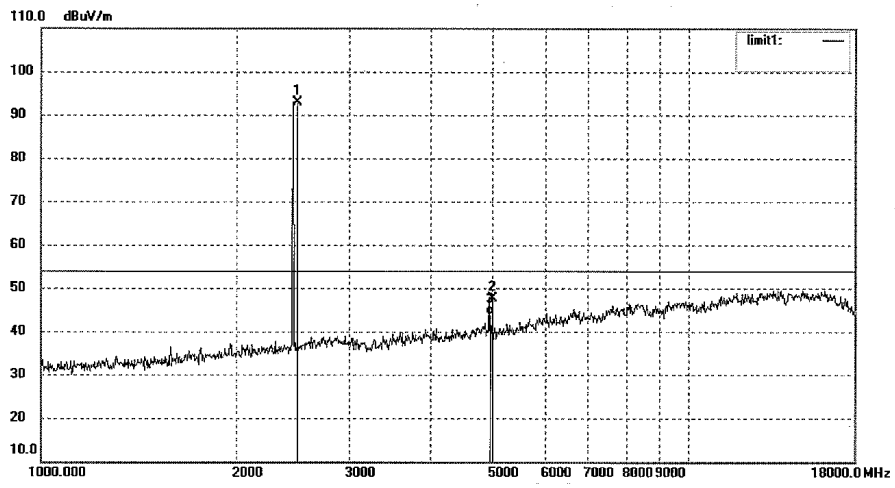
Job No.: PYH #1077	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8:43:00
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2480.000	100.16	-7.37	92.79	/	/	peak			
2	4960.032	47.16	0.52	47.68	74.00	-26.32	peak			
3	4960.032	43.45	0.52	43.97	54.00	-10.03	AVG			

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

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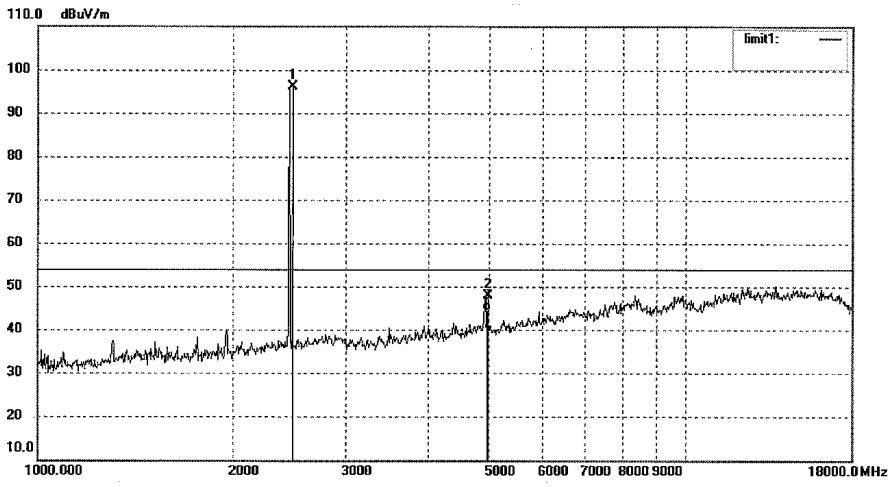
Job No.: PYH #1078	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8:55:42
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2480.000	103.44	-7.37	96.07	/	/	peak			
2	4960.019	47.33	0.52	47.85	74.00	-26.15	peak			
3	4960.019	43.75	0.52	44.27	54.00	-9.73	AVG			

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

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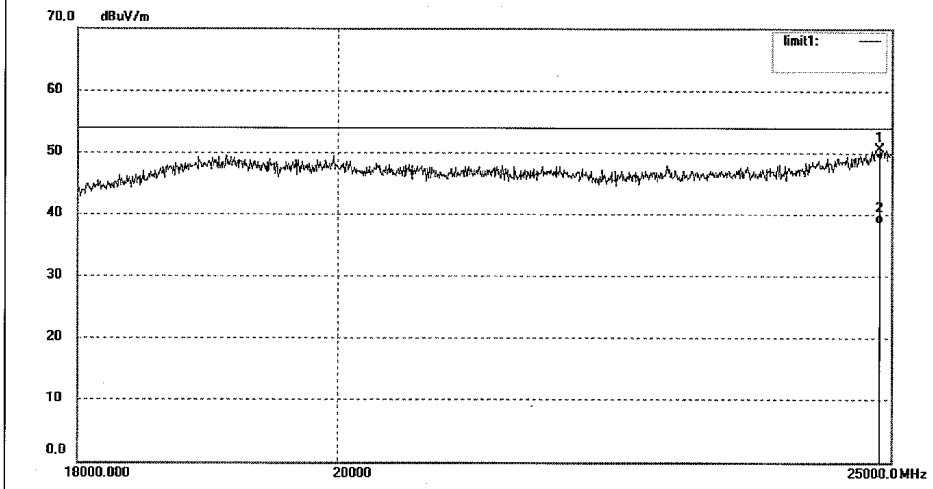
Job No.: PYH #1129	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 53 %	Time: 17:28:24
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	24885.058	31.90	18.74	50.64	74.00	-23.36	peak			
2	24885.058	19.90	18.74	38.64	54.00	-15.36	AVG			

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

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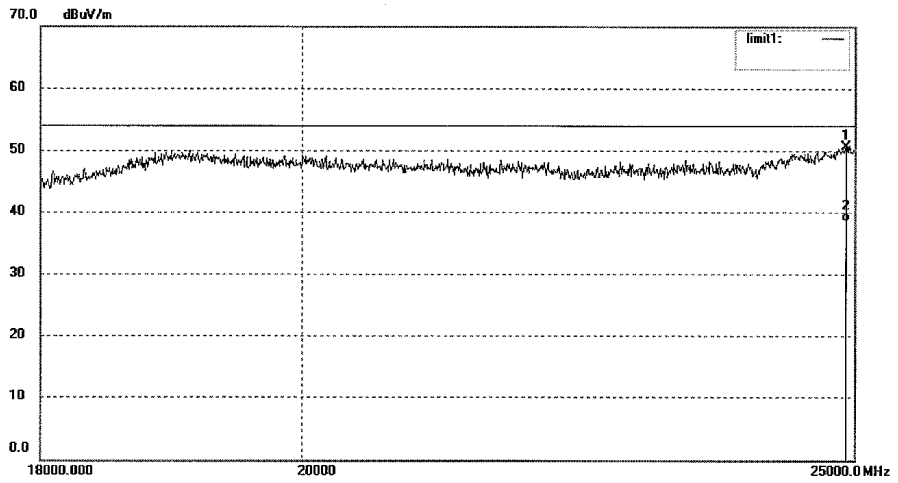
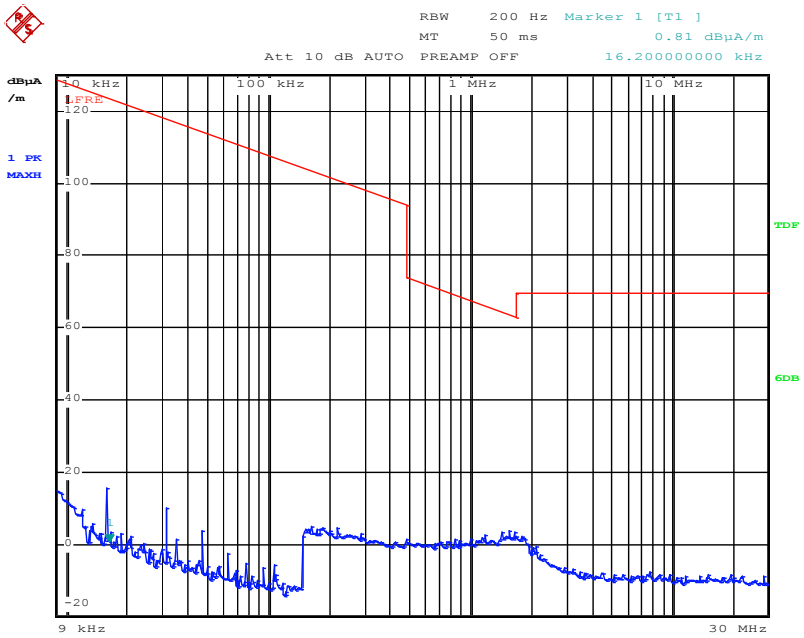
Job No.: PYH #1130	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 52 %	Time: 17:37:50
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note: EDR



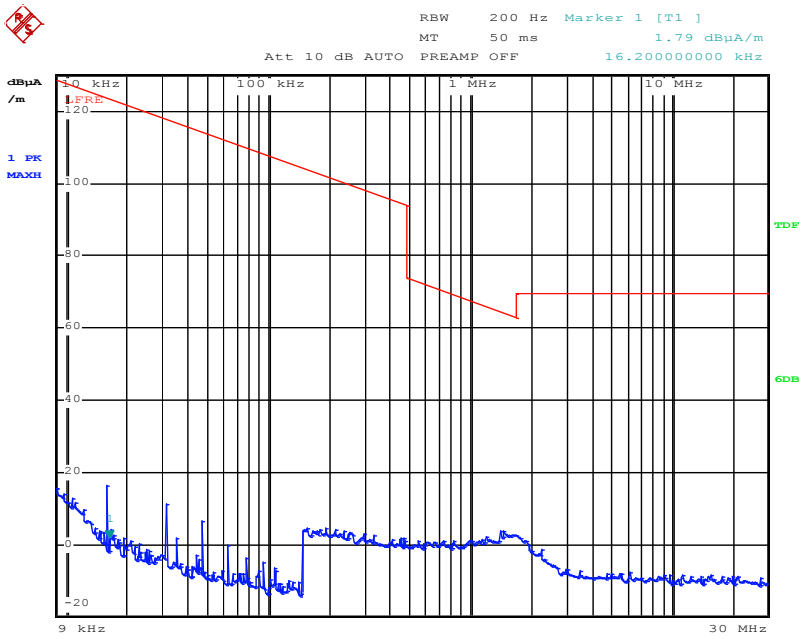
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24917.845	31.89	18.78	50.67	74.00	-23.33	peak			
2	24917.845	19.83	18.78	38.61	54.00	-15.39	AVG			

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



Date: 5.MAR.2013 08:29:16

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



Date: 5.MAR.2013 08:31:17

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

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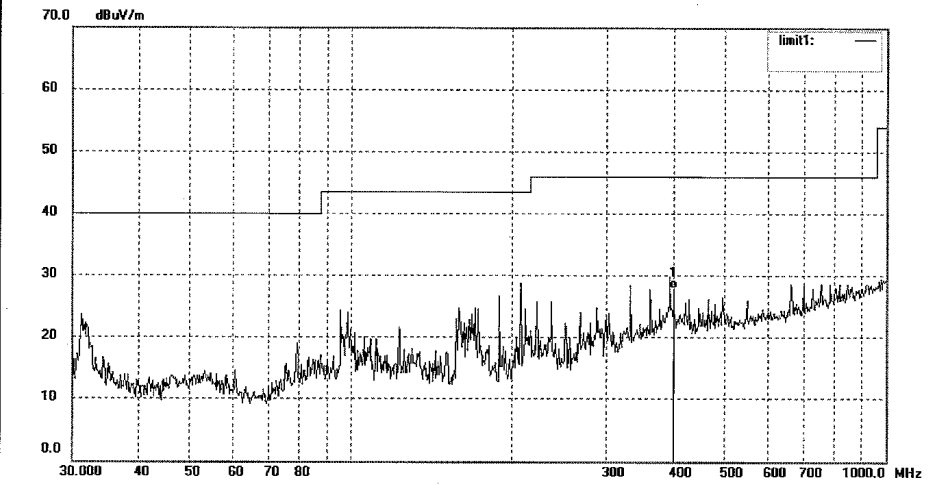
Job No.: PYH #1150	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/06/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 11/08/19
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	400.5500	34.66	-6.80	27.86	46.00	-18.14	QP			

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

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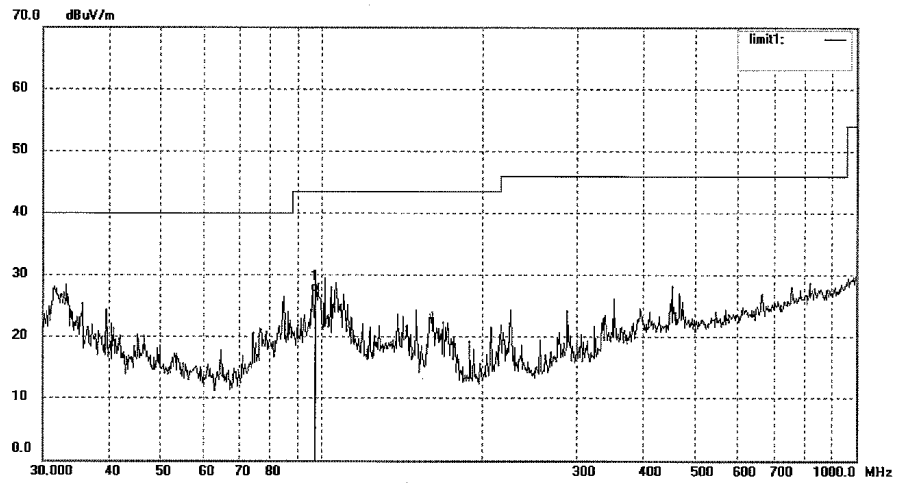
Job No.: PYH #1149	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/06/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10/59/56
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.3600	39.71	-12.49	27.22	43.50	-16.28	QP			

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

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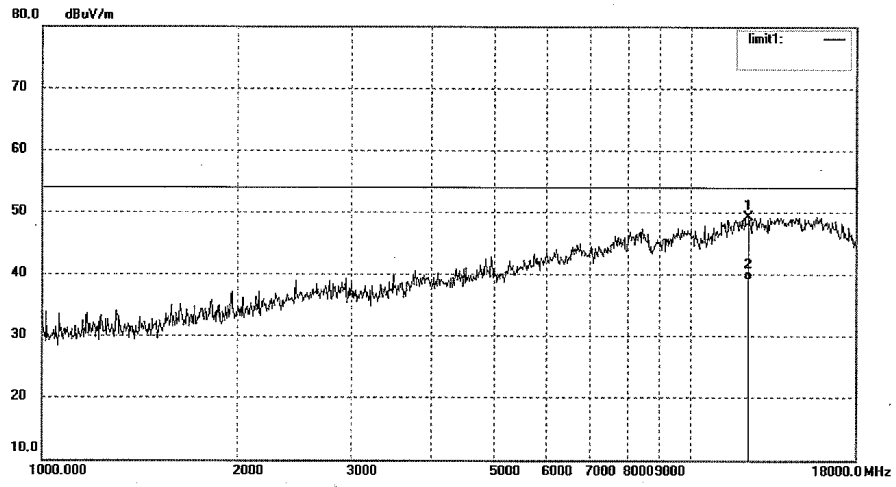
Job No.: PYH #1081
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: Bluetooth Brainwave Sensor
Mode: RX 2402MHz
Model: BL100
Manufacturer: Macrotellect

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2013/03/05
Time: 9:27:02
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	12331.662	11.00	38.23	49.23	74.00	-24.77	peak			
2	12331.662	0.97	38.23	39.20	54.00	-14.80	AVG			

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

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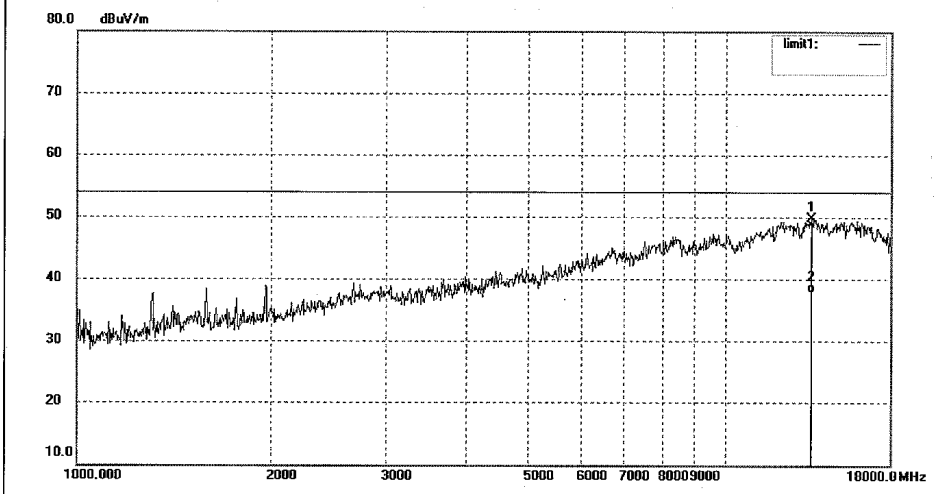
Job No.: PYH #1082	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9:36:28
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	13611.841	9.99	39.78	49.77	74.00	-24.23	peak			
2	13611.841	-1.78	39.78	38.00	54.00	-16.00	AVG			

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

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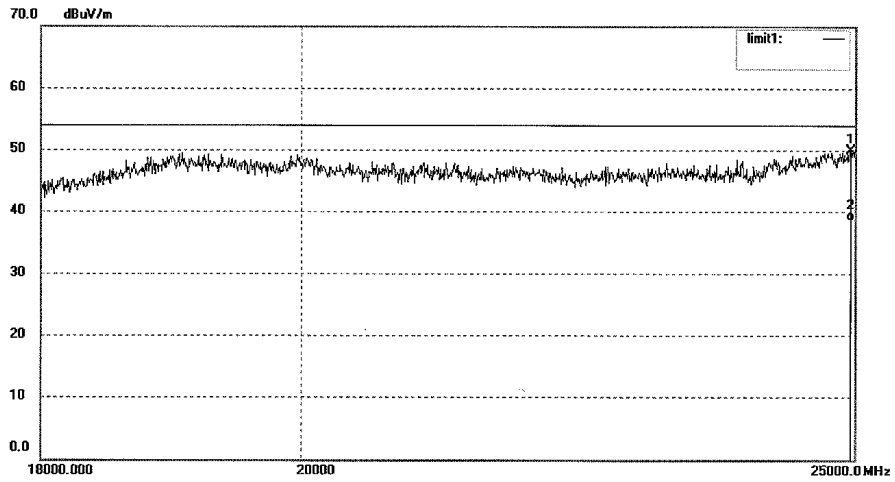
Job No.: PYH #1123	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:36:20
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	31.15	18.84	49.99	74.00	-24.01	peak			
2	24958.889	19.78	18.84	38.62	54.00	-15.38	AVG			

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

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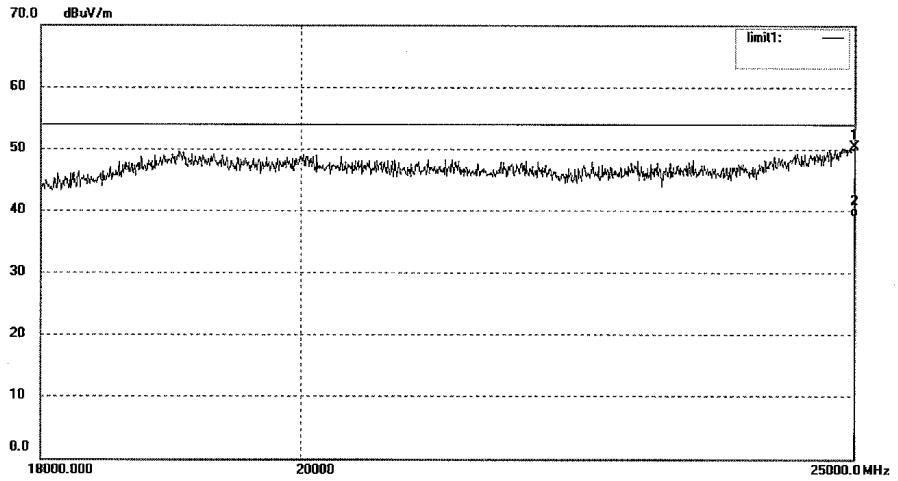
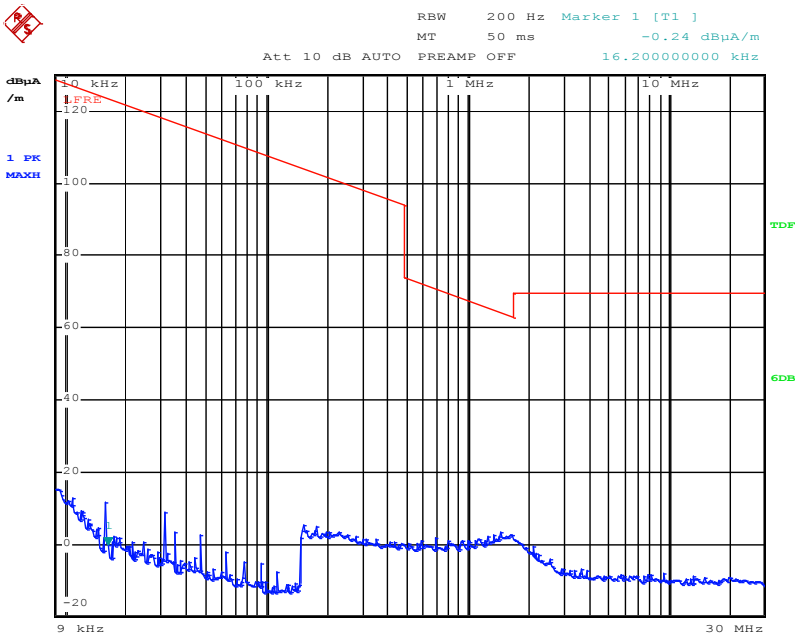
Job No.: PYH #1124	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:44:32
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note: BDR



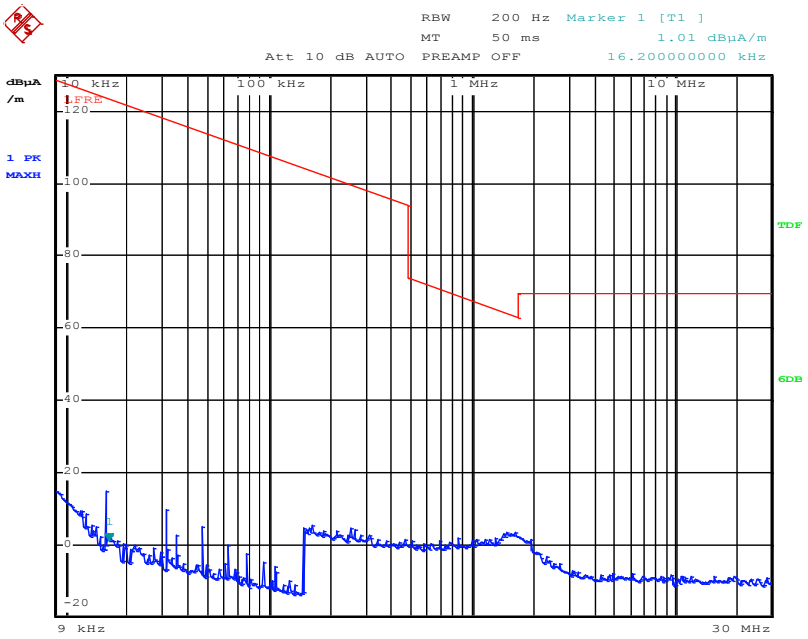
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25000.000	31.55	18.90	50.45	74.00	-23.55	peak			
2	25000.000	20.14	18.90	39.04	54.00	-14.96	AVG			

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



Date: 5.MAR.2013 08:45:00

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



Date: 5.MAR.2013 08:37:10

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

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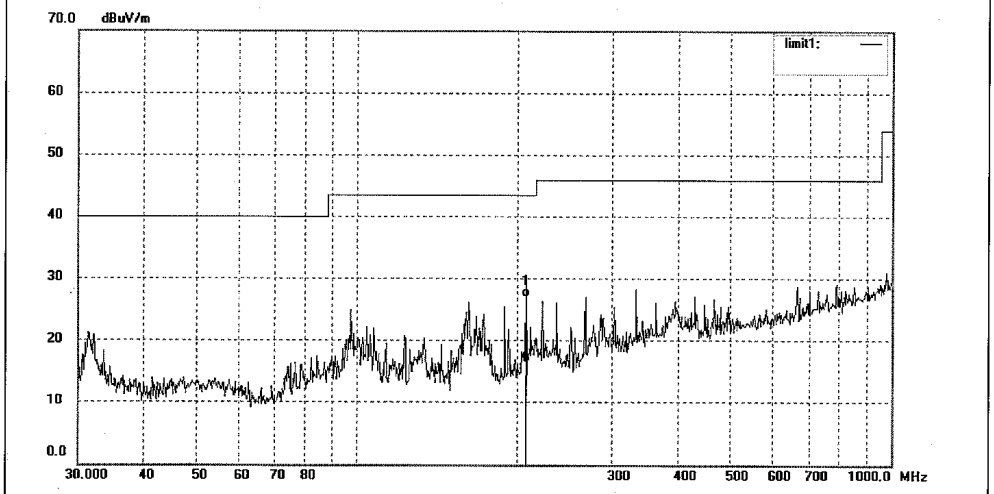
Job No.: PYH #1151	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/06/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 11/17/39
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	207.9968	39.21	-12.22	26.99	43.50	-16.51	QP			

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

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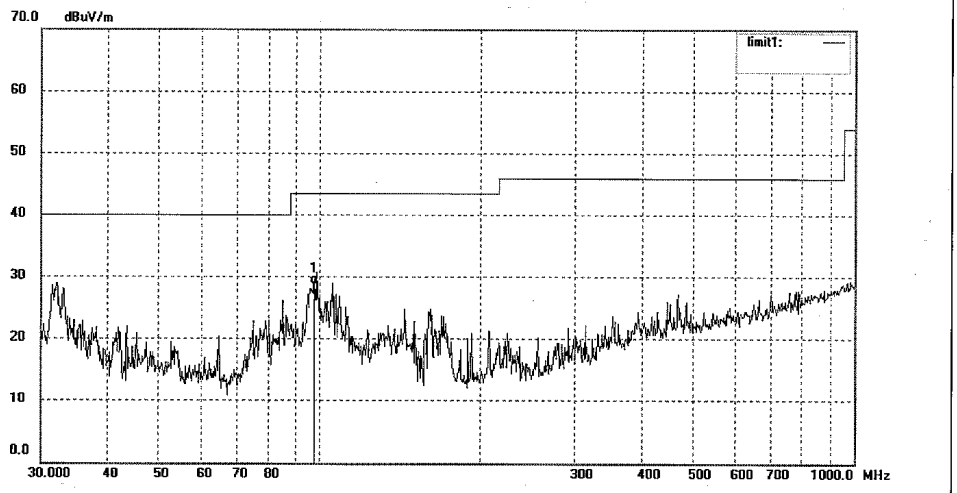
Job No.: PYH #1152	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/06/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 11/27/35
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	97.6297	41.23	-12.45	28.78	43.50	-14.72	QP			

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

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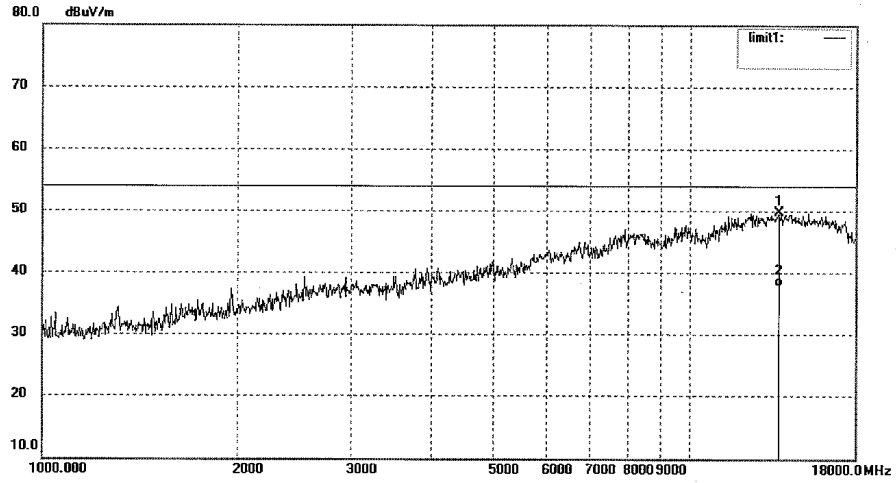
Job No.: PYH #1088	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10:32:04
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	13692.796	9.94	39.91	49.85	74.00	-24.15	peak			
2	13692.796	-1.91	39.91	38.00	54.00	-16.00	AVG			

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

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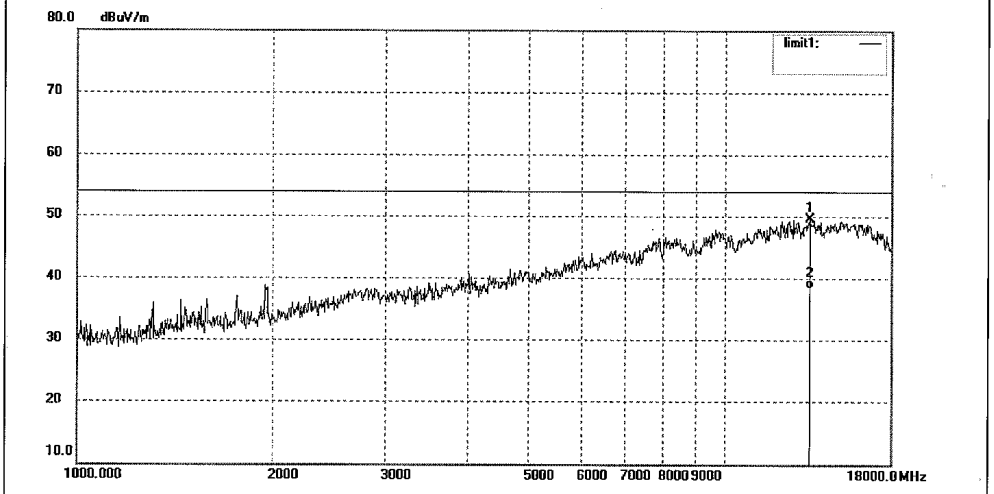
Job No.: PYH #1087	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10:23:17
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	13530.607	9.98	39.65	49.63	74.00	-24.37	peak			
2	13530.607	-1.25	39.65	38.40	54.00	-15.60	AVG			

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

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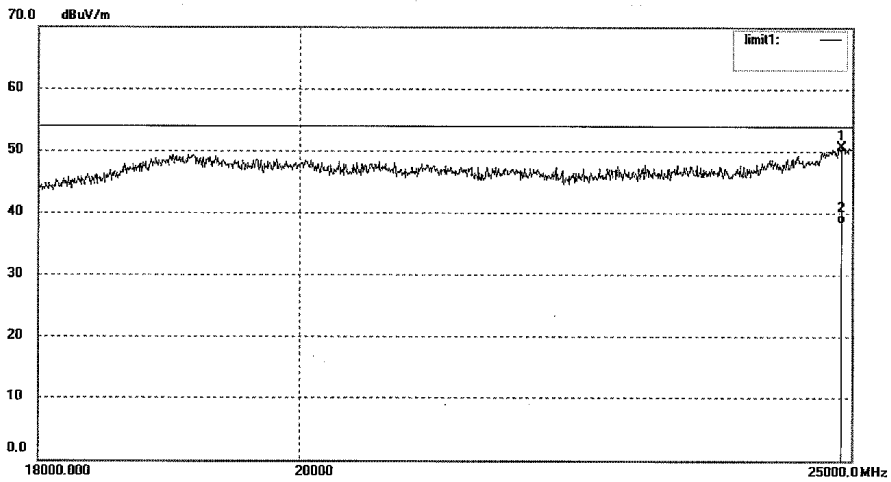
Job No.: PYH #1131	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 53 %	Time: 17:45:57
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	24893.251	31.92	18.75	50.67	74.00	-23.33	peak			
2	24893.251	19.61	18.75	38.36	54.00	-15.64	AVG			

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

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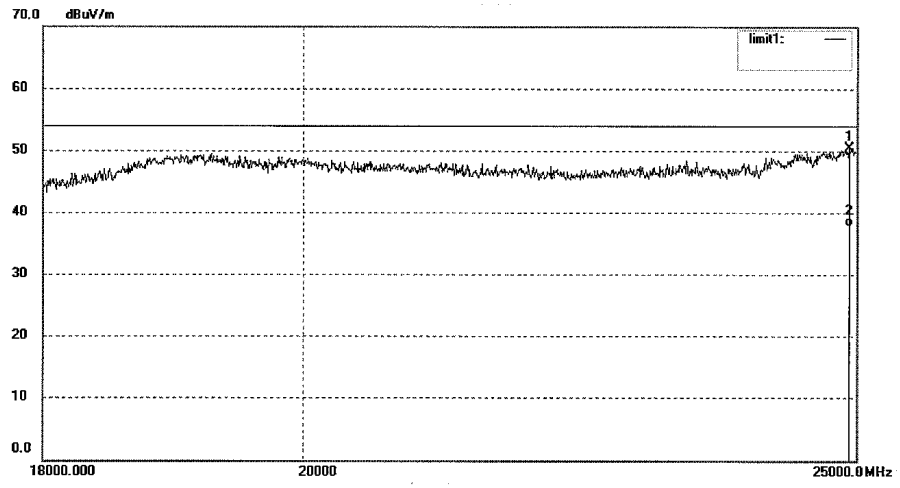
Job No.: PYH #1132	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 25 C / 53 %	Time: 17:52:52
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	24926.048	31.70	18.80	50.50	74.00	-23.50	peak			
2	24926.048	19.08	18.80	37.88	54.00	-16.12	AVG			

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

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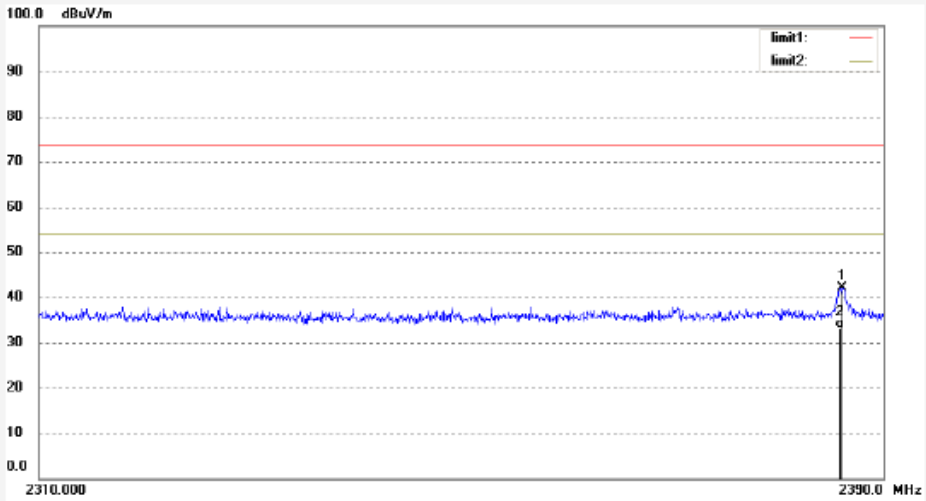
Job No.: PYH #1063	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 8:57:22
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2385.993	49.78	-7.56	42.22	74.00	-31.78	peak			
2	2385.993	40.66	-7.56	33.10	54.00	-20.90	AVG			

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

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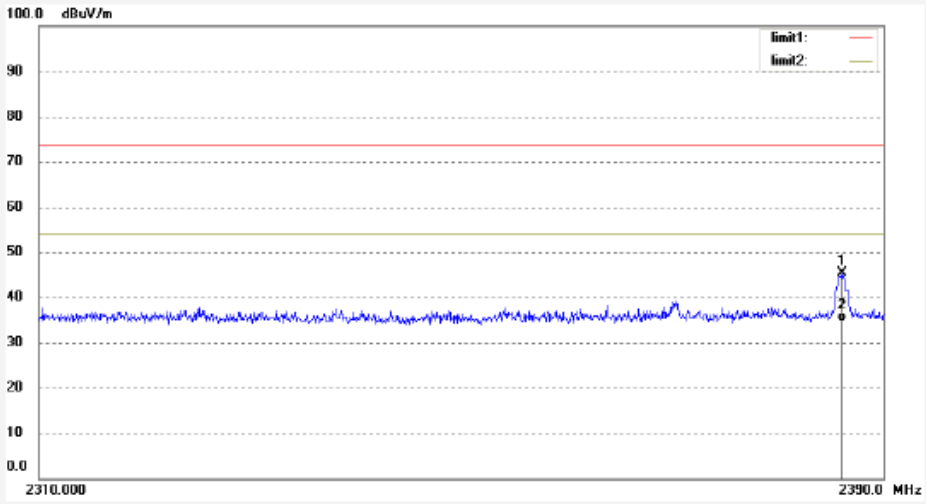
Job No.: PYH #1064	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9:08:21
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2386.024	52.98	-7.56	45.42	74.00	-28.58	peak			
2	2386.024	42.16	-7.56	34.60	54.00	-19.40	AVG			

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

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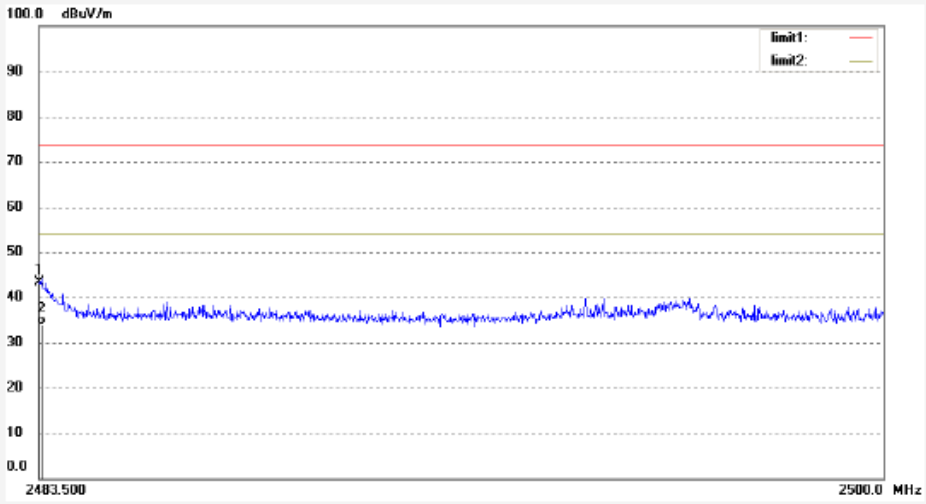
Job No.: PYH #1069	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10:13:25
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	50.73	-7.37	43.36	74.00	-30.64	peak			
2	2483.500	41.27	-7.37	33.90	54.00	-20.10	AVG			

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

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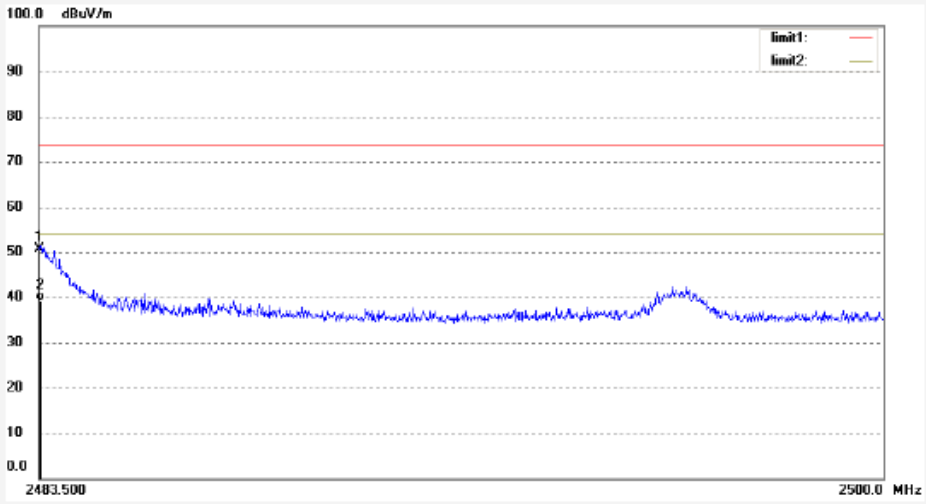
Job No.: PYH #1070	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10:24:07
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	57.95	-7.37	50.58	74.00	-23.42	peak			
2	2483.500	46.47	-7.37	39.10	54.00	-14.90	AVG			

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

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Tel:+86-0755-26503290
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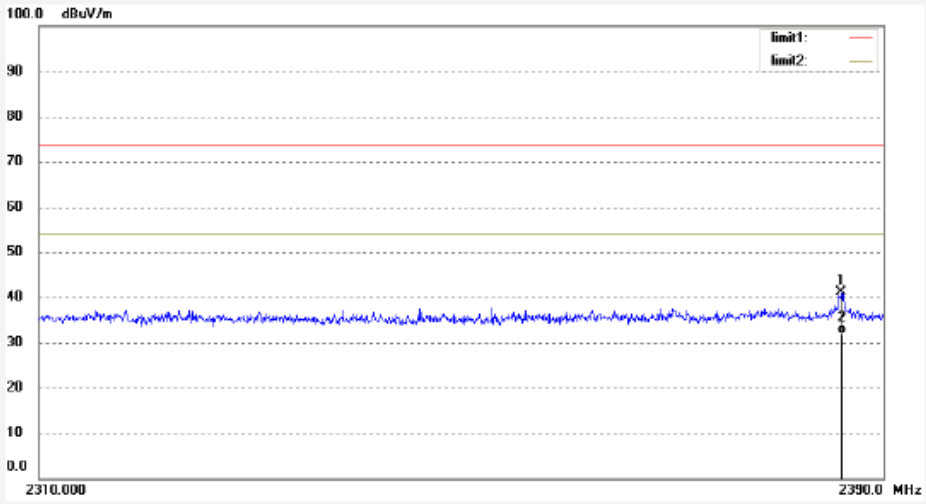
Job No.: PYH #1073	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 10:58:40
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2385.909	48.61	-7.56	41.05	74.00	-32.95	peak			
2	2385.909	39.36	-7.56	31.80	54.00	-22.20	AVG			

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

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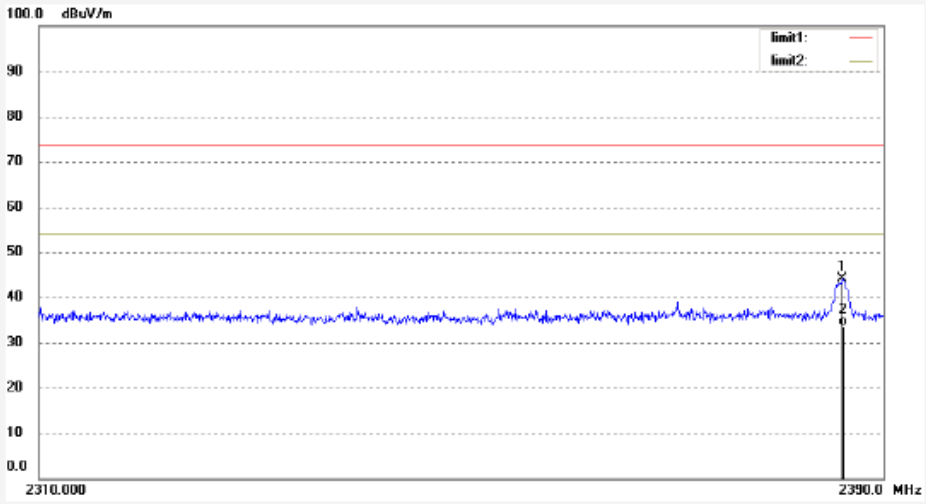
Job No.: PYH #1074	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/04
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 11:09:33
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	2386.016	51.67	-7.56	44.11	74.00	-29.89	peak			
2	2386.016	41.26	-7.56	33.70	54.00	-20.30	AVG			

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

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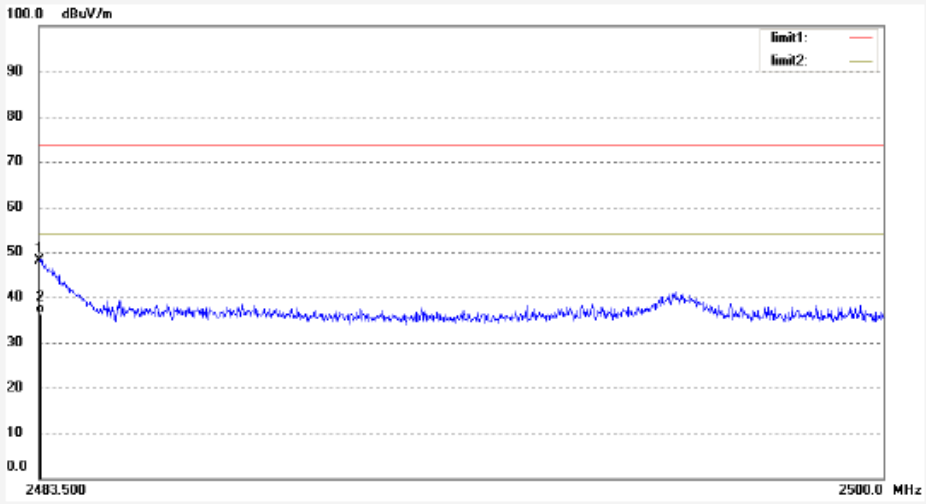
Fax:+86-0755-26503396

Job No.: PYH #1079	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9:07:18
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	55.56	-7.37	48.19	74.00	-25.81	peak			
2	2483.500	43.67	-7.37	36.30	54.00	-17.70	AVG			

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

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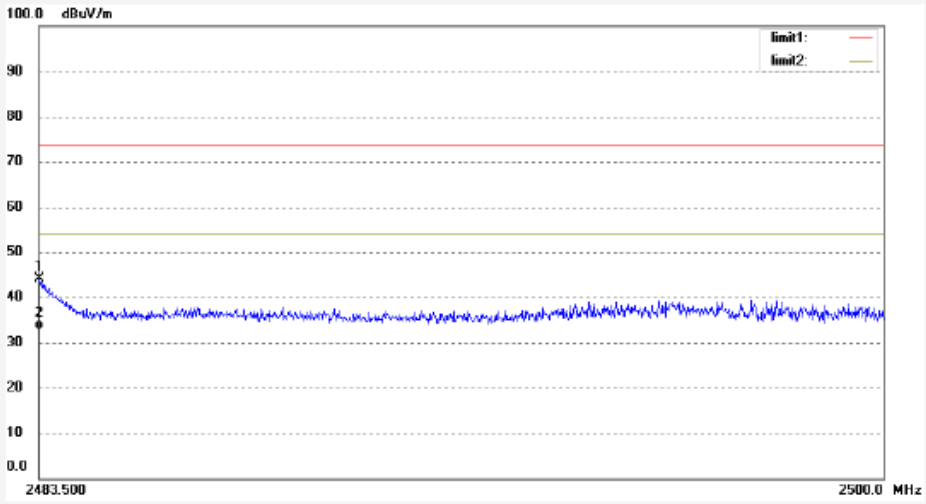
Job No.: PYH #1080	Polarization: Horizontal
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/05
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9:18:31
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

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	51.54	-7.37	44.17	74.00	-29.83	peak			
2	2483.500	40.37	-7.37	33.00	54.00	-21.00	AVG			

Figure 73: Test figure of Conducted emissions, Mode C, line live

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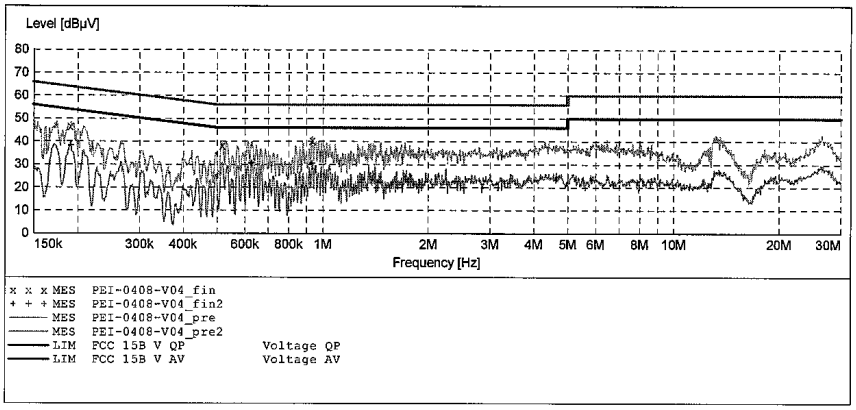
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                 Bluetooth Brainwave Sensor M/N:BL100
Manufacturer:        Macrotellect
Operating Condition: Charging
Test Site:           1#Shielding Room
Operator:            PEI
Test Specification:  L 120V/60Hz
Comment:
Start of Test:       4/8/2013 / 2:28:35PM
```

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

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



MEASUREMENT RESULT: "PEI-0408-V04_fin"

4/8/2013 2:31PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190596	46.50	11.7	64	17.5	QP	L1	GND
0.517062	38.20	12.6	56	17.8	QP	L1	GND
0.933537	40.30	12.5	56	15.7	QP	L1	GND

MEASUREMENT RESULT: "PEI-0408-V04_fin2"

4/8/2013 2:31PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.191358	38.20	11.7	54	15.8	AV	L1	GND
0.626268	30.40	12.6	46	15.6	AV	L1	GND
0.933537	30.40	12.5	46	15.6	AV	L1	GND

Figure 74: Test figure of Conducted emissions, Mode C, line neutral

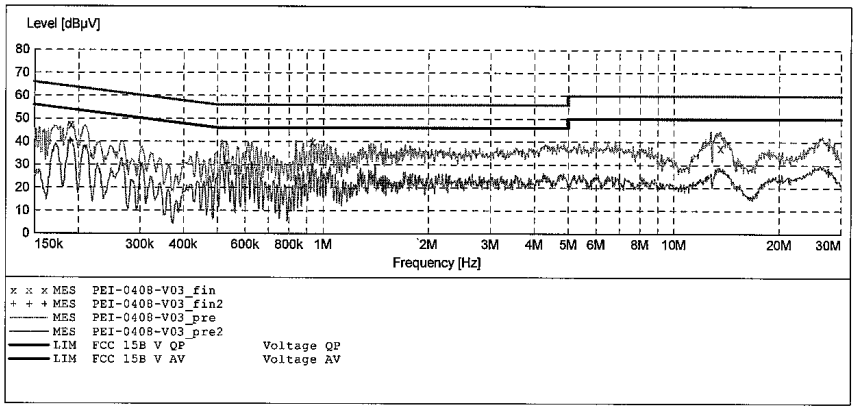
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Bluetooth Brainwave Sensor M/N:BL100
Manufacturer:         Macrotellect
Operating Condition:  Charging
Test Site:            1#Shielding Room
Operator:             PEI
Test Specification:   N 120V/60Hz
Comment:
Start of Test:        4/8/2013 / 2:27:27PM
```

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

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



MEASUREMENT RESULT: "PEI-0408-V03_fin"

4/8/2013 2:28PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190596	47.30	11.7	64	16.7	QP	N	GND
0.933537	39.80	12.5	56	16.2	QP	N	GND
13.597311	37.40	12.1	60	22.6	QP	N	GND

MEASUREMENT RESULT: "PEI-0408-V03_fin2"

4/8/2013 2:28PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.189837	40.10	11.7	54	13.9	AV	N	GND
0.533841	30.50	12.6	46	15.5	AV	N	GND
0.626268	29.80	12.6	46	16.2	AV	N	GND

Figure 75: Test figure of Radiated emissions, Mode C, Below 1GHz, Horizontal

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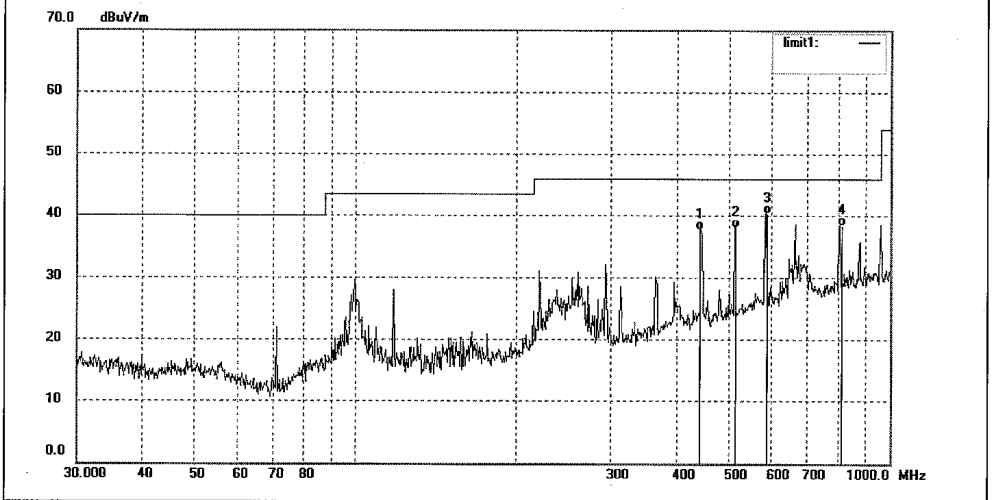
Job No.: PYH #1619	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/04/08/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 12/49/24
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: Charging	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	445.5200	43.60	-5.85	37.75	46.00	-8.25	QP			
2	517.7164	42.43	-4.41	38.02	46.00	-7.98	QP			
3	591.7486	43.38	-3.05	40.33	46.00	-5.67	QP			
4	813.6281	38.11	0.23	38.34	46.00	-7.66	QP			

Figure 76: Test figure of Radiated emissions, Mode C, Below 1GHz, Vertical

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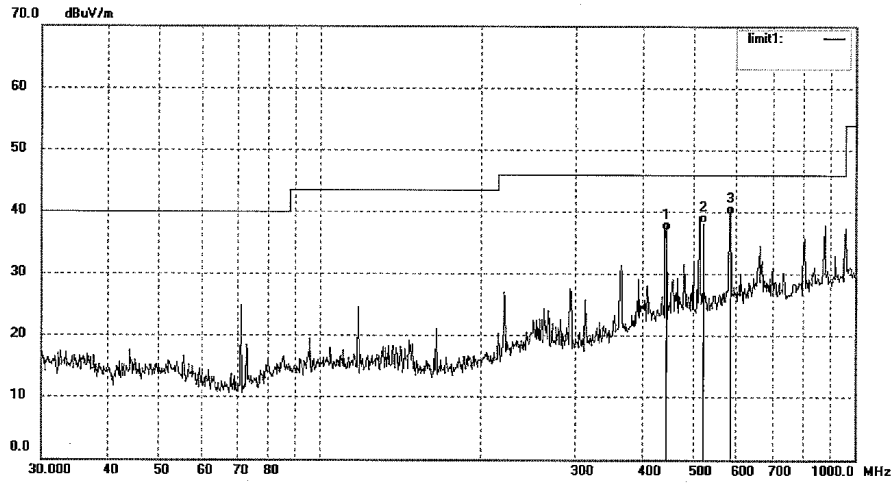
Job No.: PYH #1620	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/04/08/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 13/00/46
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: Charging	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	445.5431	42.89	-5.85	37.04	46.00	-8.96	QP			
2	517.7601	42.69	-4.41	38.28	46.00	-7.72	QP			
3	591.7152	42.74	-3.05	39.69	46.00	-6.31	QP			

Figure 77: Test figure of Radiated emissions, Mode C, Above 1GHz, Horizontal

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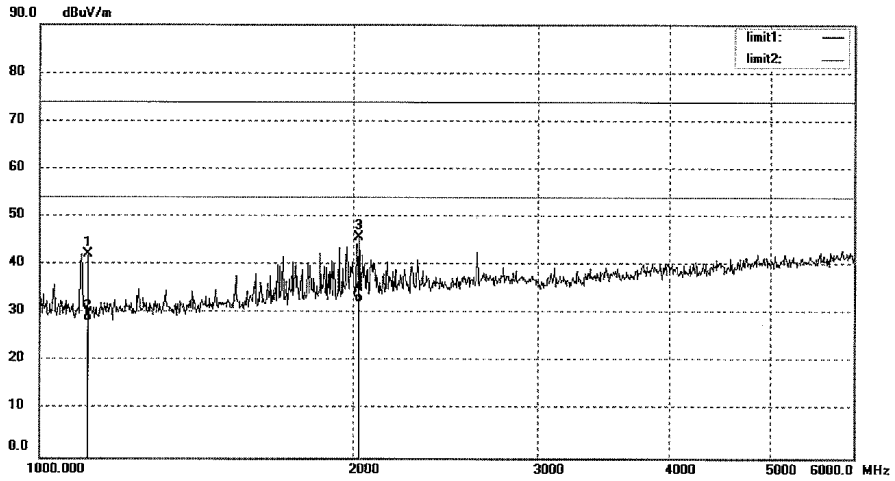
Job No.: PYH #1623	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/04/08/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 13/33/59
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: Charging	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1113.041	54.80	-12.57	42.23	74.00	-31.77	peak			
2	1113.041	40.77	-12.57	28.20	54.00	-25.80	AVG			
3	2018.153	54.78	-8.99	45.79	74.00	-28.21	peak			
4	2018.153	41.19	-8.99	32.20	54.00	-21.80	AVG			

Figure 78: Test figure of Radiated emissions, Mode C, Above 1GHz, Vertical

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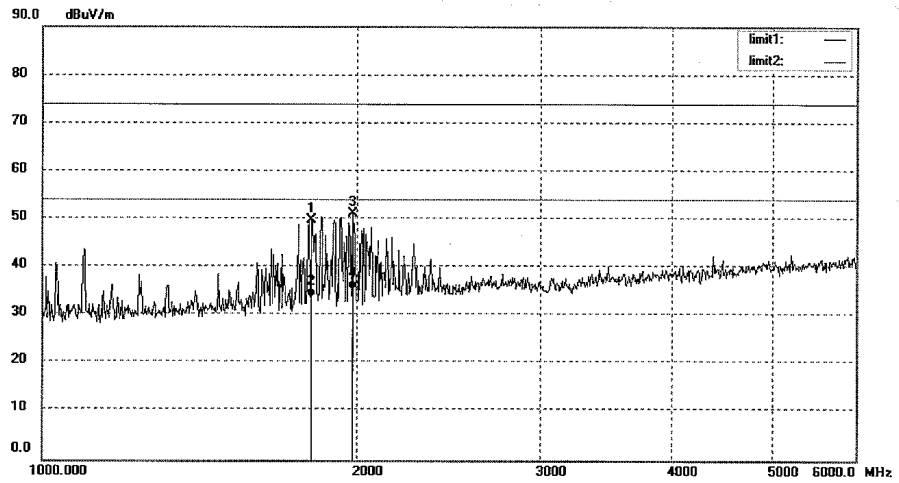
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #1624	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/04/08/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 13/45/47
EUT: Bluetooth Brainwave Sensor	Engineer Signature: PEI
Mode: Charging	Distance: 3m
Model: BL100	
Manufacturer: Macrotellect	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1812.758	59.85	-9.91	49.94	74.00	-24.06	peak			
2	1812.758	43.88	-9.91	33.97	54.00	-20.03	AVG			
3	1983.729	60.21	-9.10	51.11	74.00	-22.89	peak			
4	1983.729	44.53	-9.10	35.43	54.00	-18.57	AVG			