

Produkte
Products



Prüfbericht - Nr.: 17027667 001		Seite 1 von 39 Page 1 of 39	
<i>Test Report No.:</i>			
Auftraggeber: <i>Client:</i>	Chester Creek Technologies, Inc 205 West 2nd Street, Suite 130, Duluth, MN 55802, USA		
Gegenstand der Prüfung: <i>Test item:</i>	BigBlu KinderBoard		
Bezeichnung: <i>Identification:</i>	BBK, BBV	Serien-Nr.: <i>Serial No.:</i>	n.a.
Wareneingangs-Nr.: <i>Receipt No.:</i>	163096077	Eingangsdatum: <i>Date of receipt:</i>	2012-07-23
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of test item at delivery:</i>		Test samples received are sufficient for testing and not damaged.	
Prüfört: <i>Testing location:</i>	Shenzhen Accurate Technology Co., Ltd. F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China FCC Registration No.: 752051		
Prüfgrundlage: <i>Test specification:</i>	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		
Prüfergebnis: <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). The test item passed the test specification(s).		
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.		
geprüft/ tested by:		kontrolliert/ reviewed by:	
 2012-12-07 Owen Tian/ Project Manager		 2012-12-09 Winnie Hou/ Technical Certifier	
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>
Sonstiges/ Other Aspects:			
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet		Abbreviations: P(ass) = passed F(ail) = failed 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 relates to the a. m. test item. 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 safety mark on this or similar products.			

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

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

Contents

1.	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2.	TEST SITES	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	5
2.3	TRACEABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA.....	6
2.7	STATUS OF FACILITY USED FOR TESTING.....	6
3.	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	8
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	9
3.5	SUBMITTED DOCUMENTS	9
4.	TEST SET-UP AND OPERATION MODES	10
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	10
4.2	TEST OPERATION AND TEST SOFTWARE	10
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	10
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	10
4.5	TEST SETUP DIAGRAM	11
5.	TEST RESULTS	13
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	13
5.1.1	<i>Antenna Requirement</i>	<i>13</i>
5.1.2	<i>Peak Output Power</i>	<i>14</i>
5.1.3	<i>20dB Bandwidth</i>	<i>15</i>
5.1.4	<i>Conducted spurious emissions measured in 100kHz Bandwidth</i>	<i>19</i>
5.1.5	<i>Spurious Emission</i>	<i>28</i>
5.1.6	<i>Frequency Separation.....</i>	<i>29</i>
5.1.7	<i>Number of hopping frequency.....</i>	<i>32</i>
5.1.8	<i>Time of Occupancy</i>	<i>34</i>
6.	SAFETY HUMAN EXPOSURE	36
6.1	RADIO FREQUENCY EXPOSURE COMPLIANCE.....	36
6.1.1	<i>Electromagnetic Fields.....</i>	<i>36</i>
7.	PHOTOGRAPHS OF THE TEST SET-UP	37
8.	LIST OF TABLES	39
9.	LIST OF PHOTOGRAPHS	39

Prüfbericht - Nr.: 17027667 001

Test Report No.

Seite 4 von 39

Page 4 of 39

1. General Remarks

1.1 Complementary Materials

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

Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

Shenzhen Accurate Technology Co., Ltd.

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

FCC Registration No.: 752051

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

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

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

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at 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 Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is Bluetooth keyboard using Bluetooth technique.
Both models are identical in function, circuit design and components employed, except different color of enclosure.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	BigBlu KinderBoard
Type Designation:	BBK, BBV
FCC ID	ENXKBBT3023

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Channel separation	1MHz
Extreme Temperature Range	-20°C to +55°C
Operation Voltage	DC3V via 2 AAA size batteries
Modulation	GFSK, 8PSK, $\pi / 4$ DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	3dBi
RF Output Power	0.00281W (4.48dBm)

Table 4: Frequency hopping information

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

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Standby
- C. Receiving
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

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

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

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

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

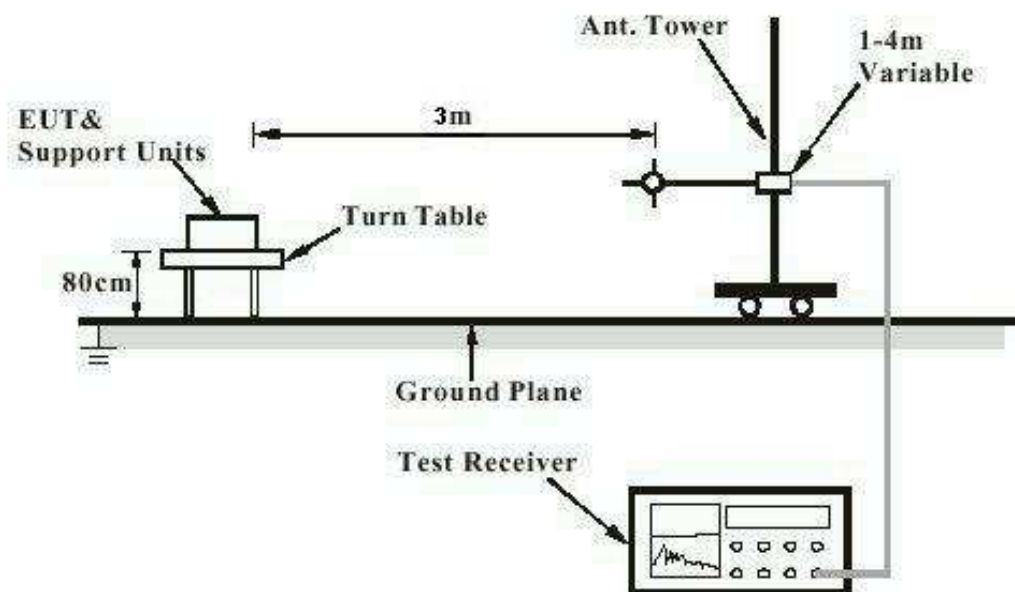


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

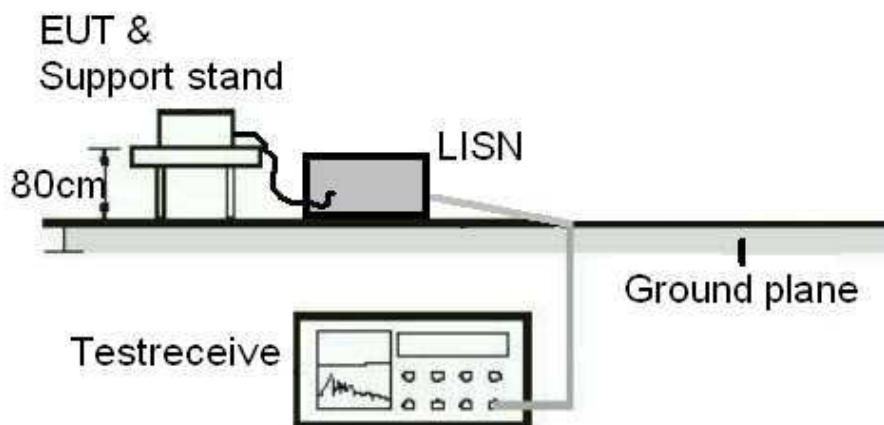
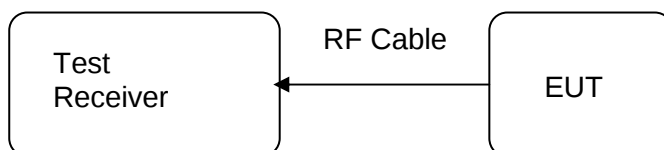


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2012-09-10
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 0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2012-09-10
 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 : 22°C
 Relative humidity : 53%
 Atmospheric pressure : 101 kPa

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

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2402	4.08	0.00256	0.125
Middle Channel	2441	4.01	0.00252	0.125
High Channel	2480	3.51	0.00224	0.125

Remark: RBW is 1MHz

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

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2402	4.48	0.00281	0.125
Middle Channel	2441	4.36	0.00273	0.125
High Channel	2480	3.93	0.00247	0.125

Remark: RBW is 3MHz

5.1.3 20dB Bandwidth

RESULT:**Passed**

Date of testing : 2012-09-10
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 : 22°C
Relative humidity : 52%
Atmospheric pressure : 101 kPa

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

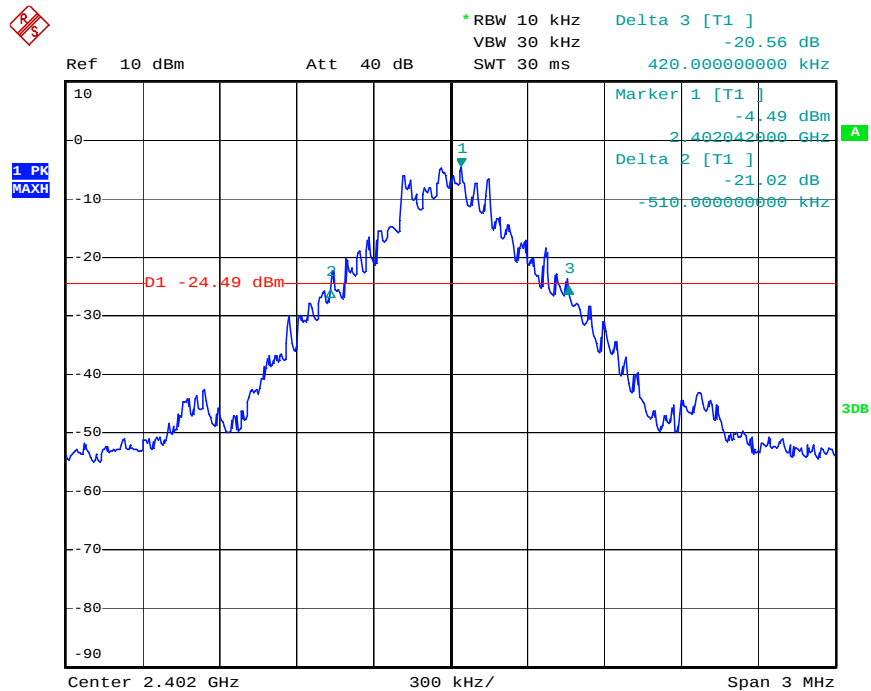
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	930	/	Pass
Mid Channel	2441	930	/	Pass
High Channel	2480	930	/	Pass

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

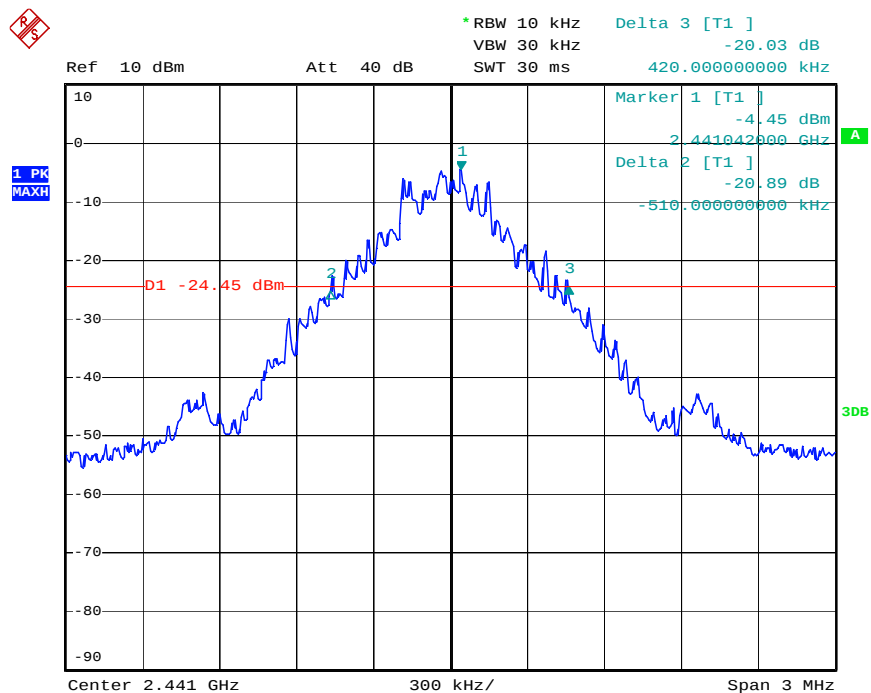
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1272	/	Pass
Mid Channel	2441	1272	/	Pass
High Channel	2480	1272	/	Pass

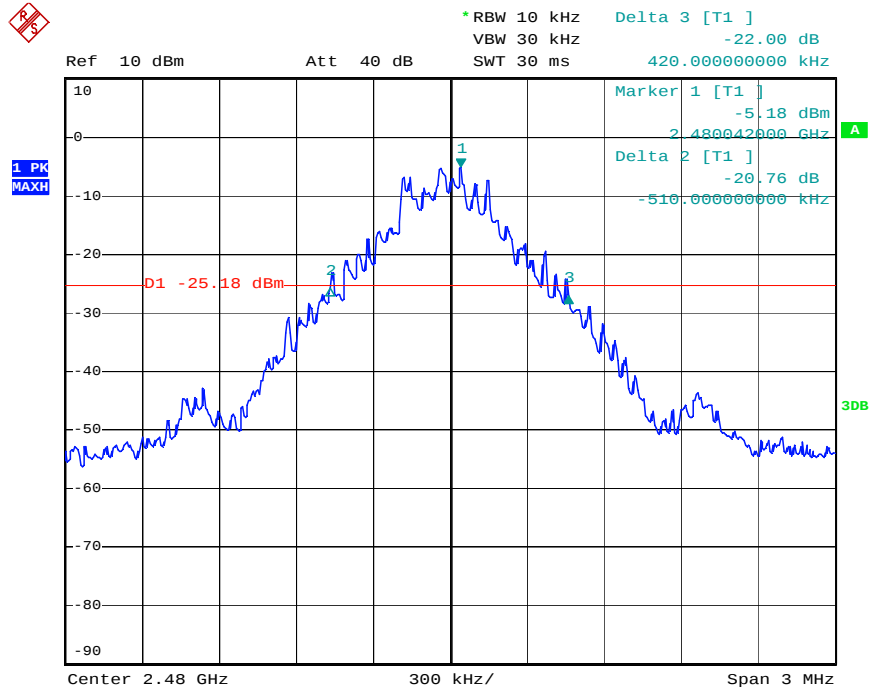
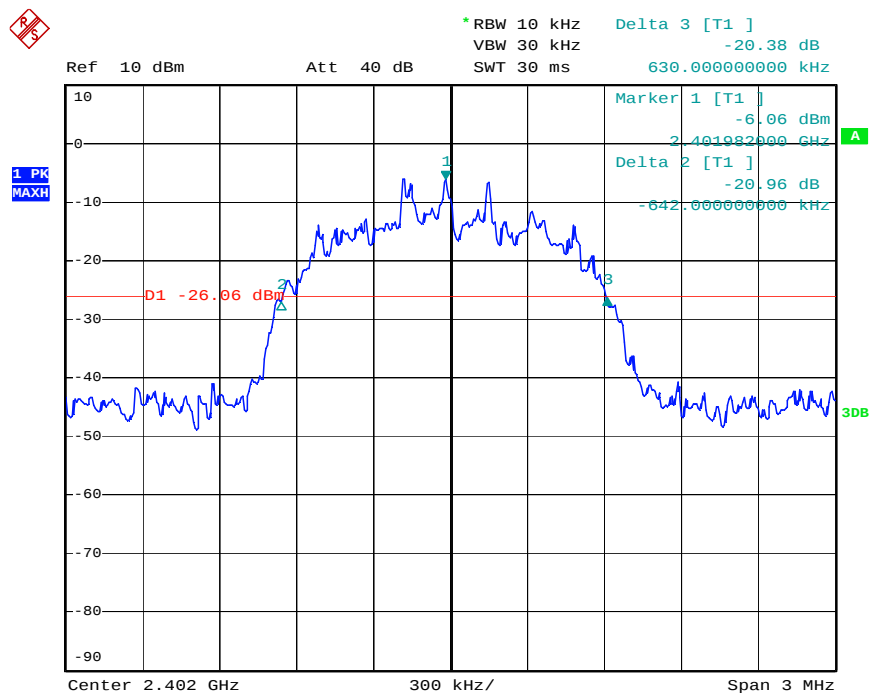
Test Plot of 20dB Bandwidth, GFSK modulation

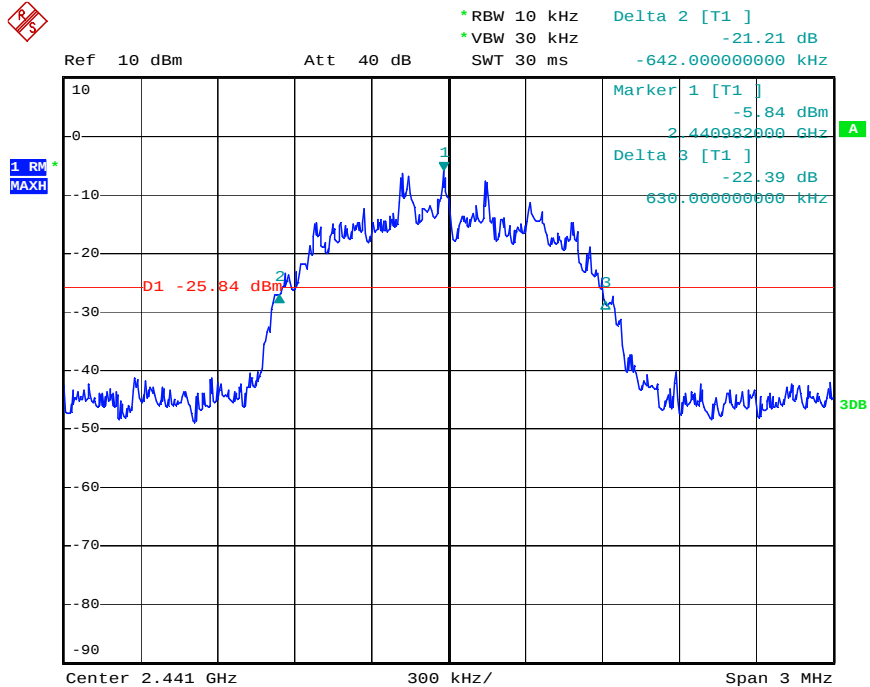
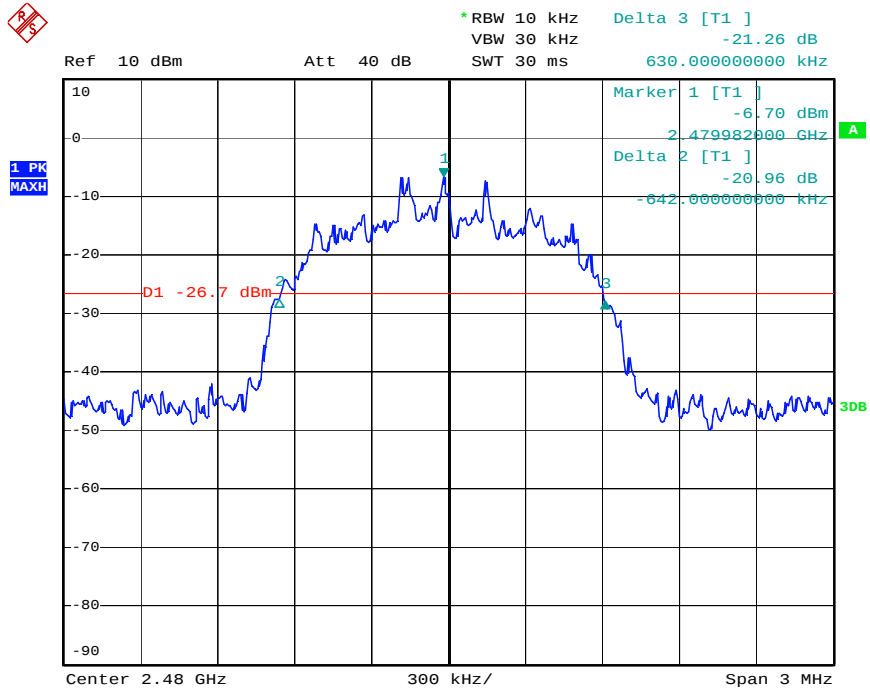
Low Channel



Middle Channel



High Channel

Test Plot of 20dB Bandwidth, 8DPSK modulation
Low Channel


Middle Channel

High Channel


5.1.4 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT:**Passed**

Date of testing	:	2012-09-13
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

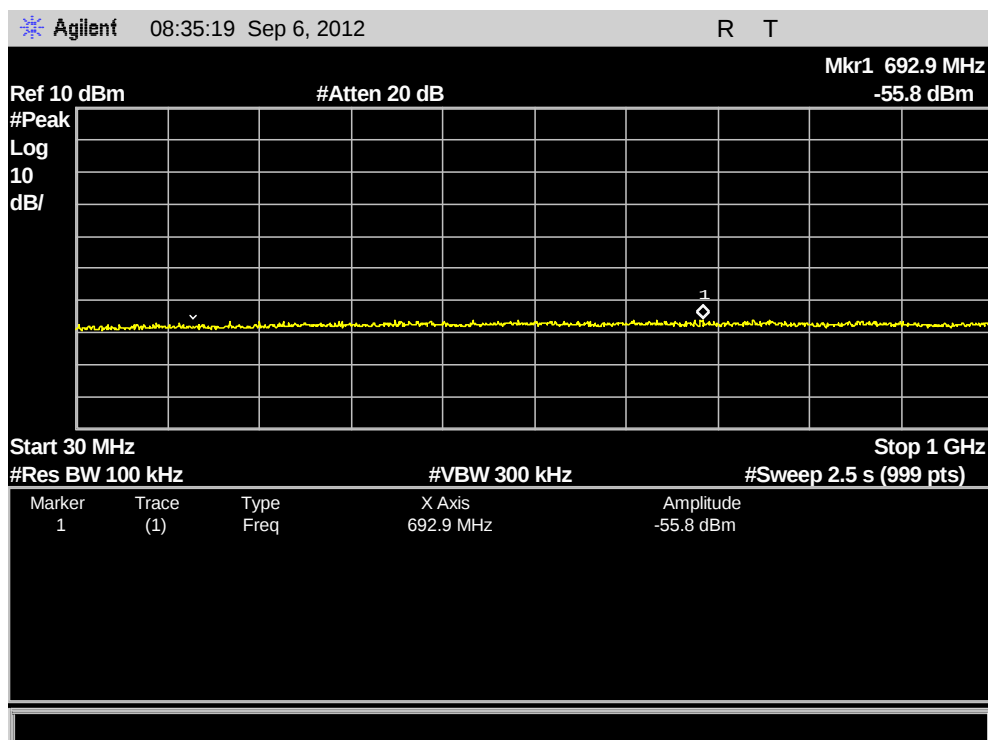
Test setup

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

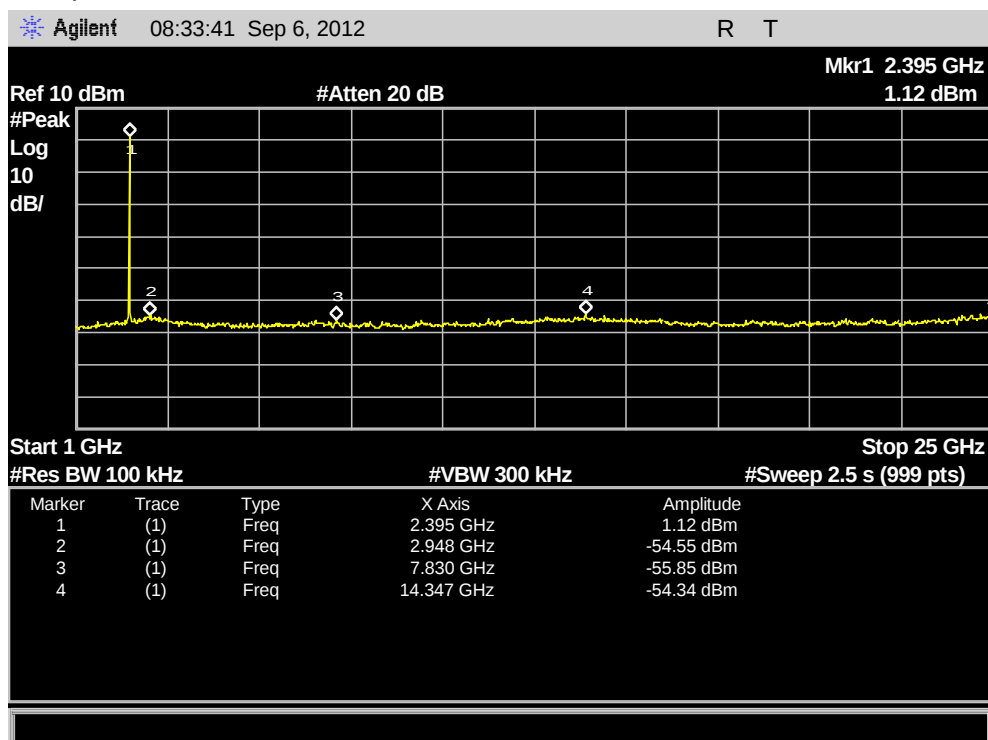
All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

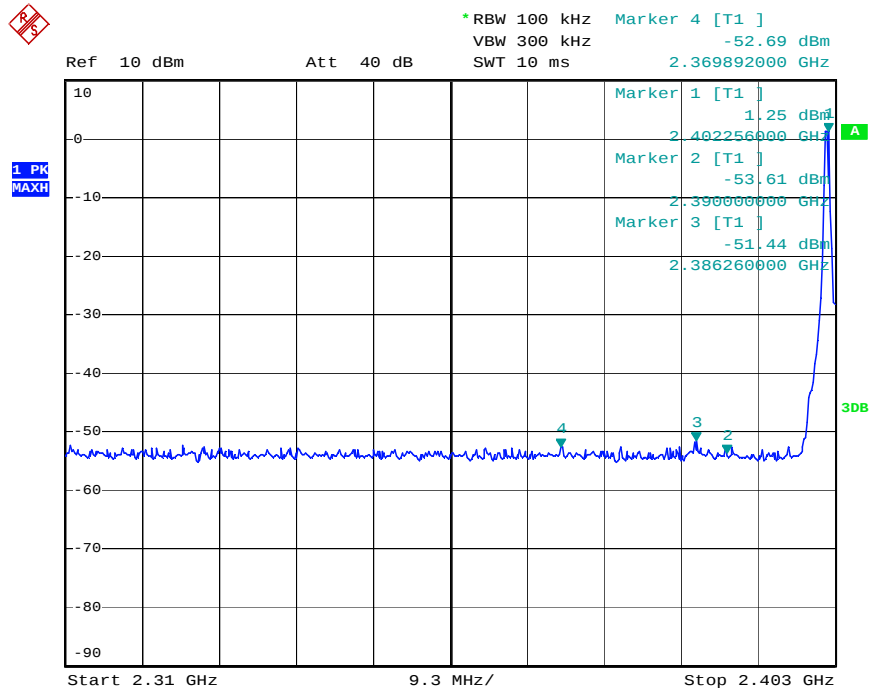
Test Plot of 100kHz Bandwidth of Frequency Band Edge, GFSK modulation

Low Channel, below 1GHz

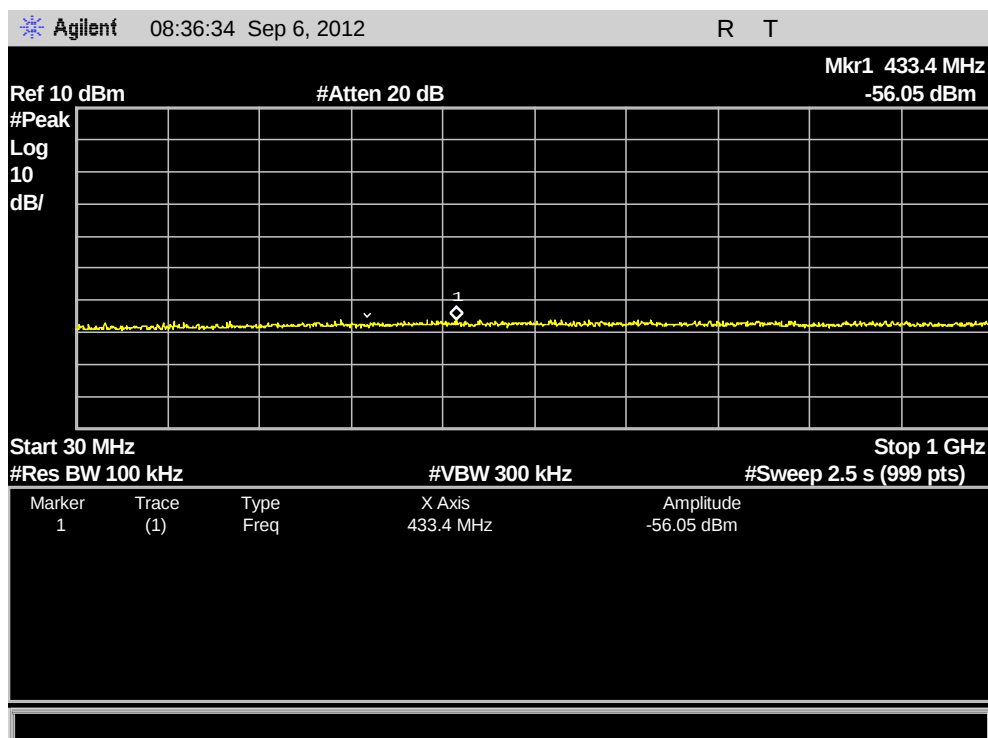


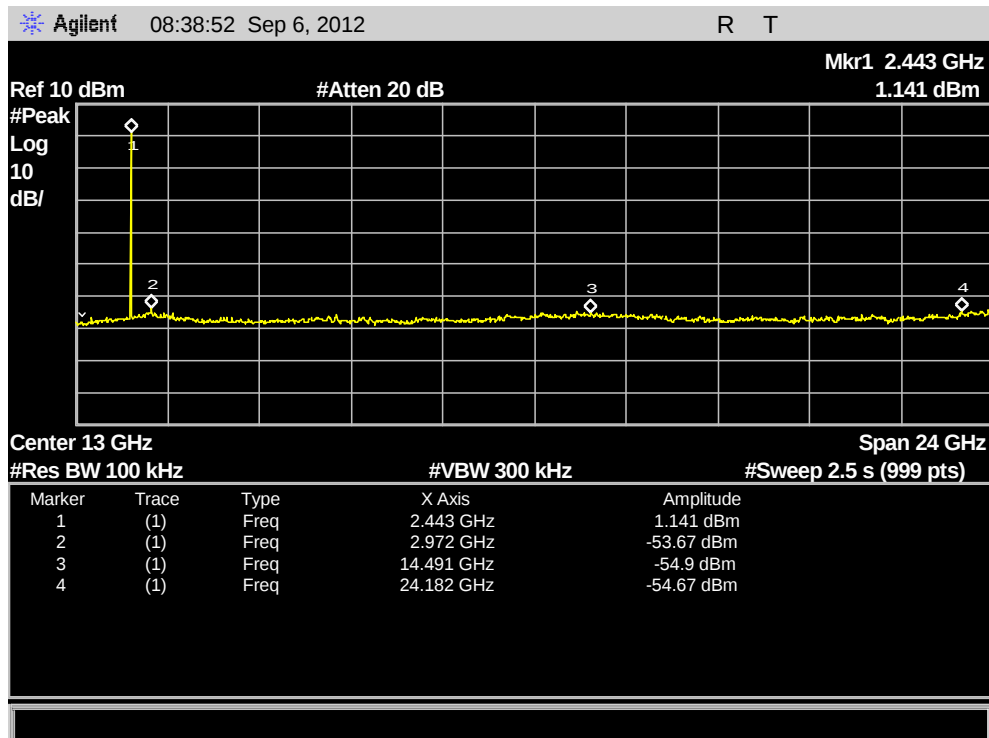
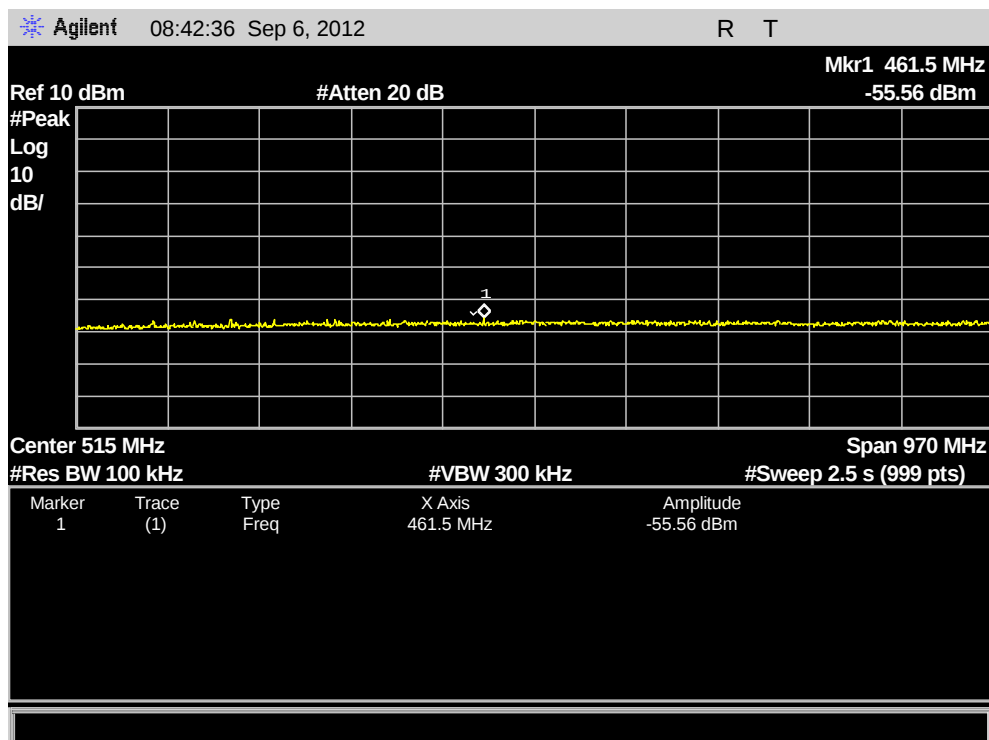
Low Channel, above 1GHz

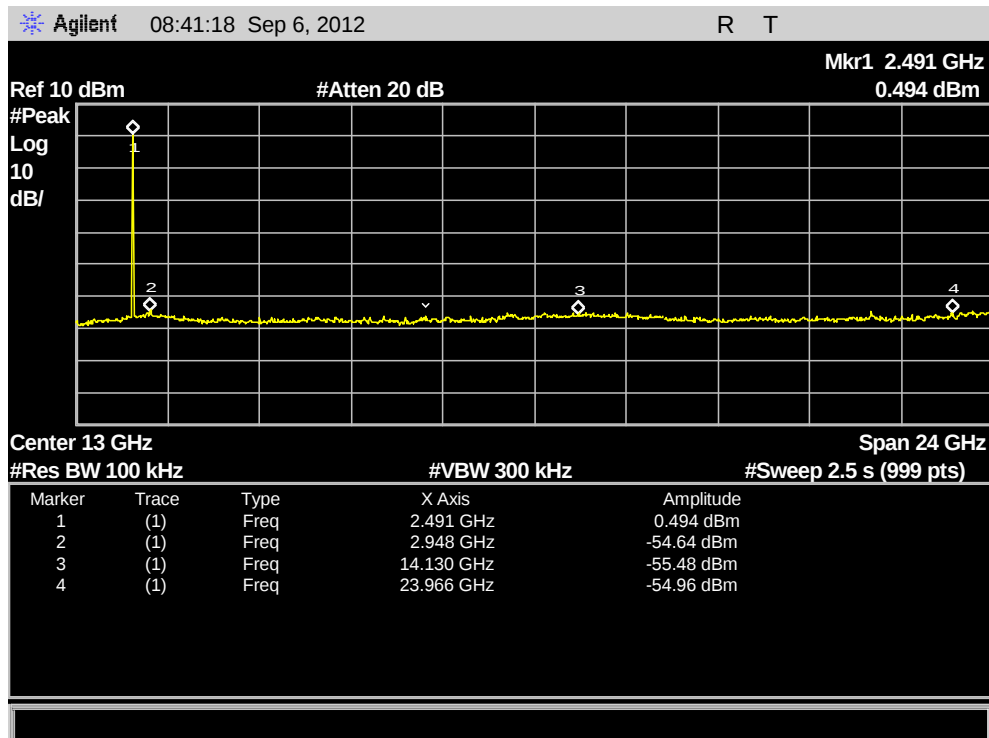
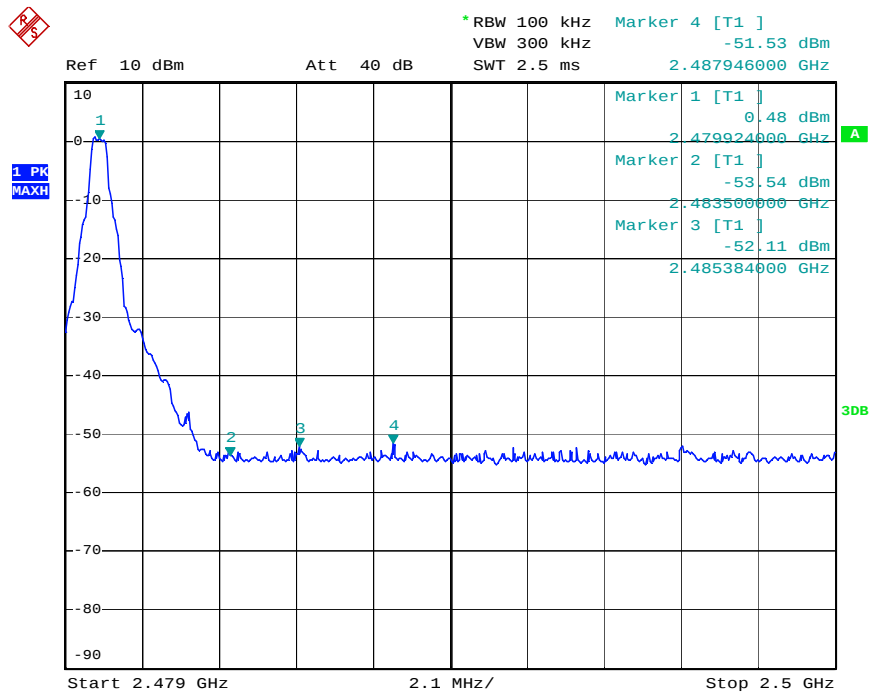


Low Channel, Band Edge


Date: 13.SEP.2012 09:07:22

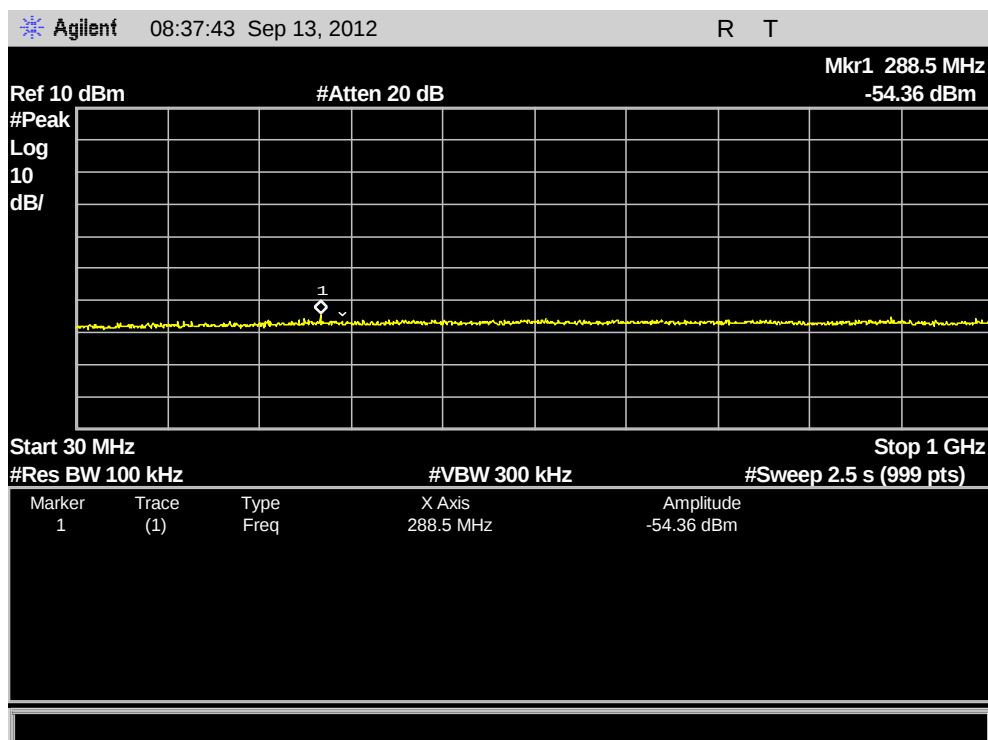
Middle Channel, below 1GHz


Middle Channel, above 1GHz

High Channel, below 1GHz


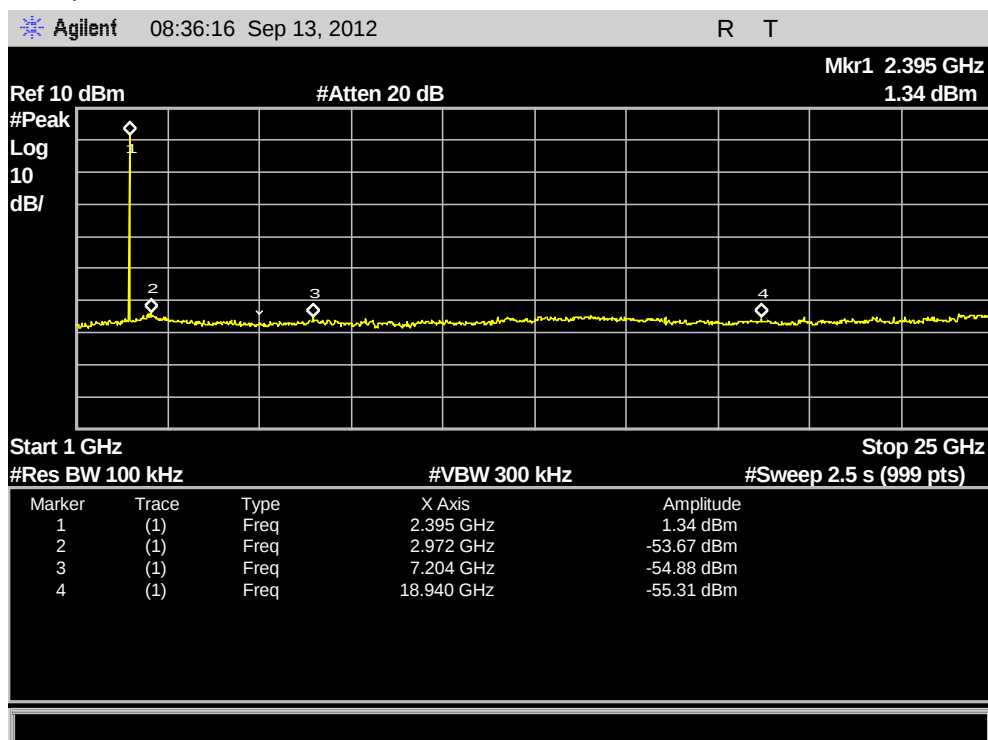
High Channel, above 1GHz

High Channel, Band Edge


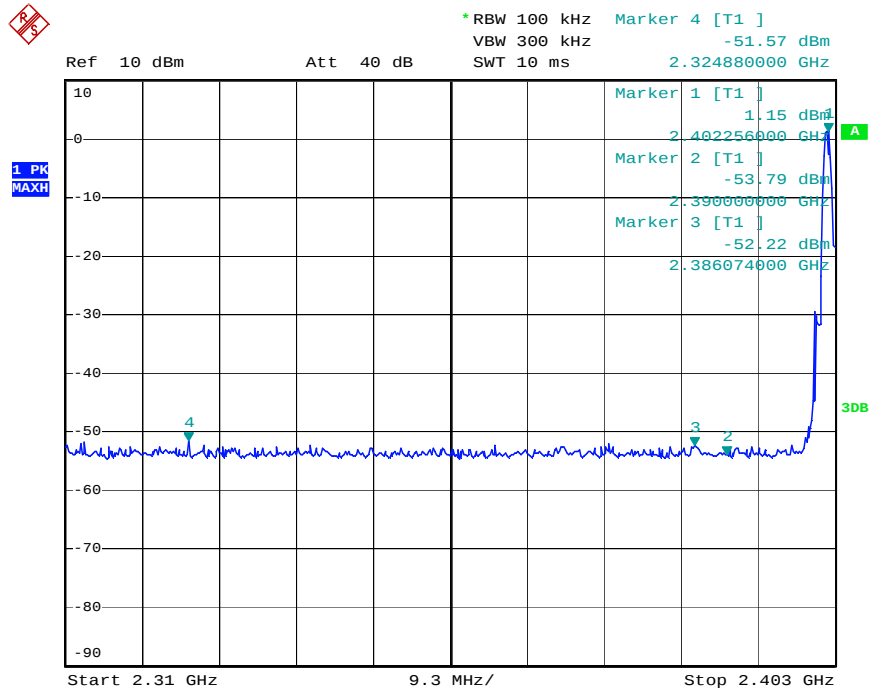
Test Plot of 100kHz Bandwidth of Frequency Band Edge, 8DPSK modulation

Low Channel, below 1GHz

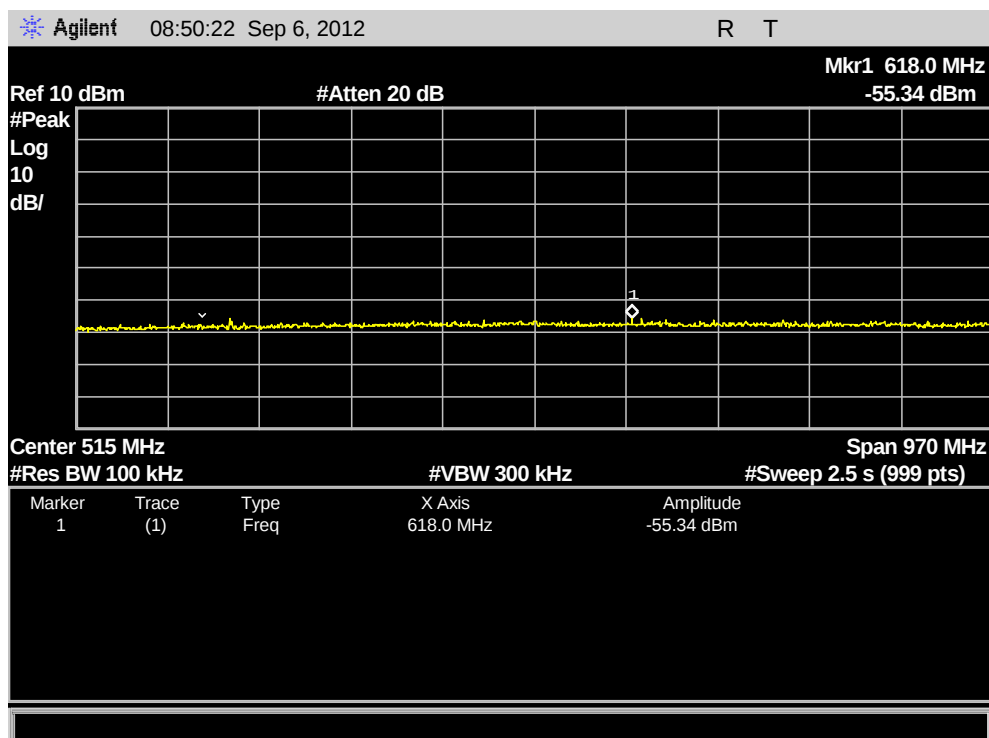


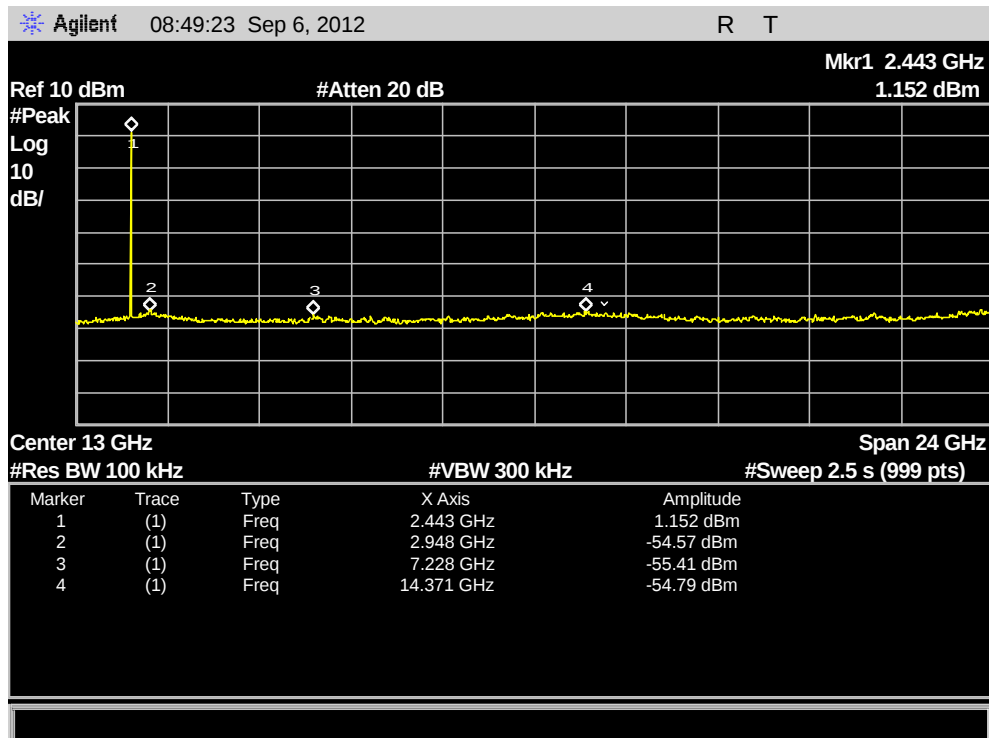
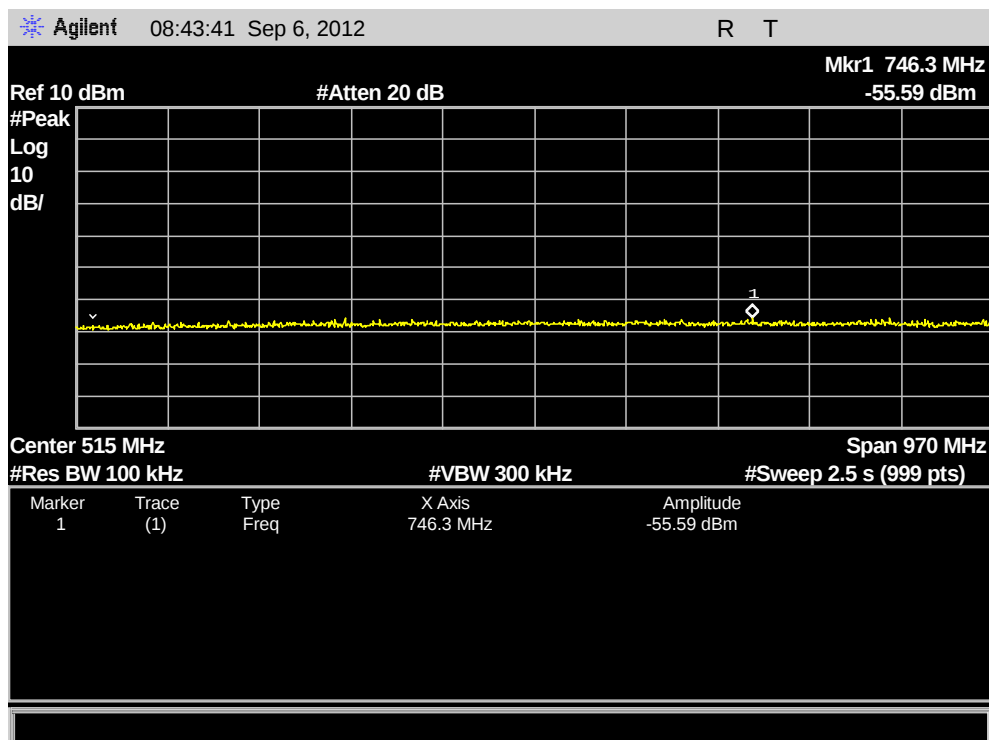
Low Channel, above 1GHz

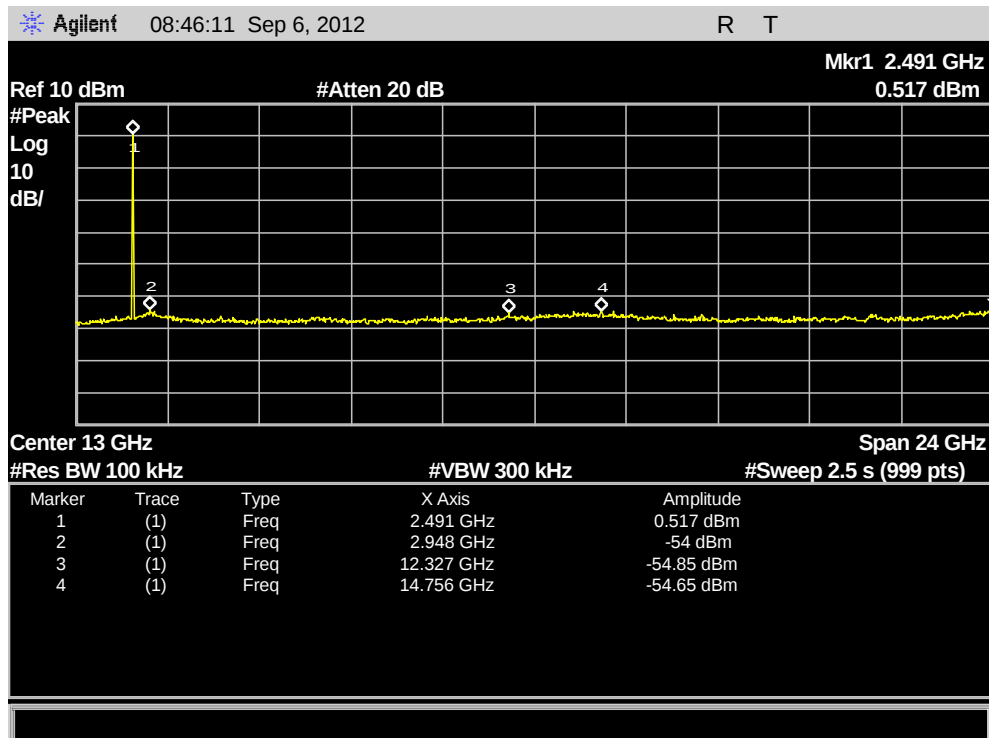
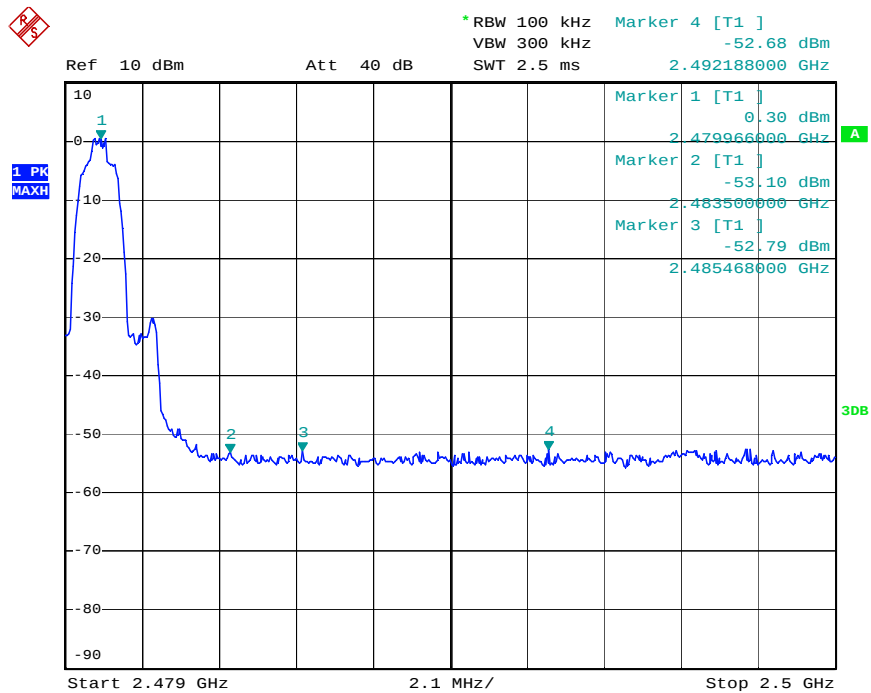


Low Channel, Band Edge


Date: 13.SEP.2012 09:05:51

Middle Channel, below 1GHz


Middle Channel, above 1GHz

High Channel, below 1GHz


High Channel, above 1GHz

High Channel, Band Edge


5.1.5 Spurious Emission

RESULT:**Passed**

Date of testing	:	2012-08-31 to 2012-09-07
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	:	24°C
Relative humidity	:	48%
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 : 2012-09-10
Test standard : FCC part 15.247(a)(1)
Basic standard : ANSI C63.4: 2003
Limit : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Test setup

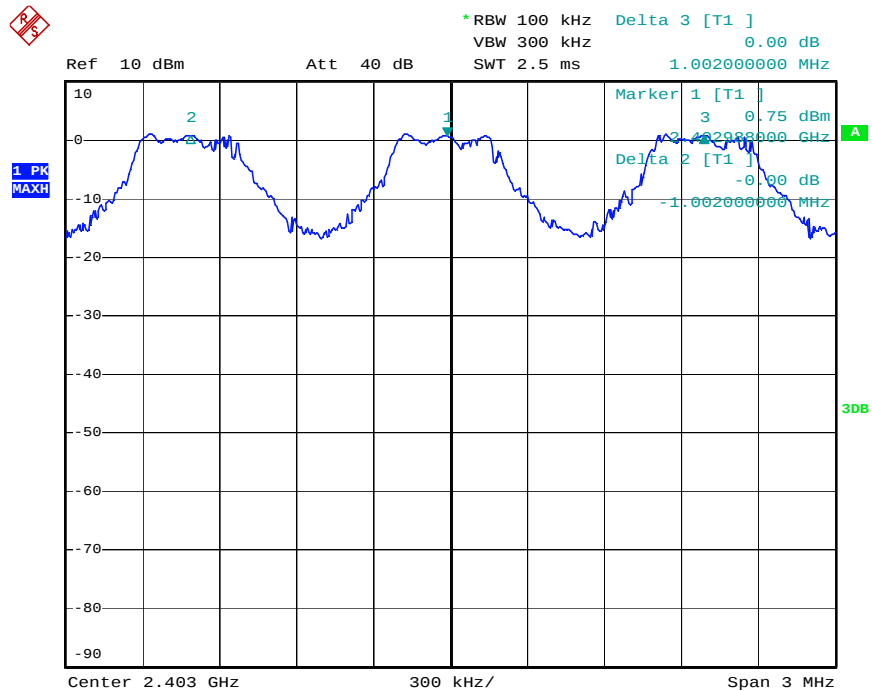
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 22°C
Relative humidity : 52%
Atmospheric pressure : 101 kPa

Table 9: Test result of Frequency Separation

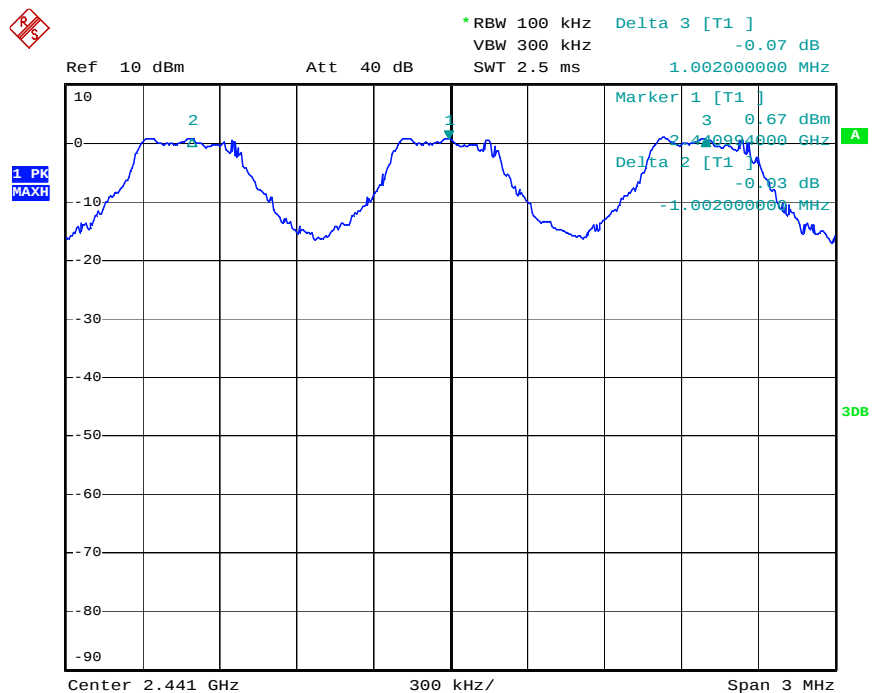
Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	$\geq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

Test Plot of Frequency Separation

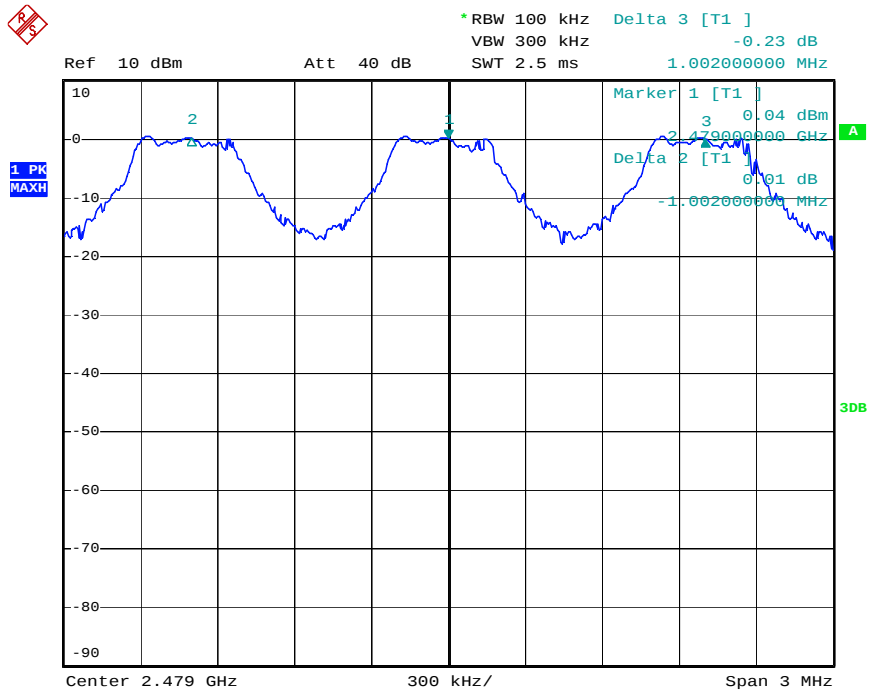
Low Channel



Middle Channel



High Channel



2.479 GHz 300 kHz/ Span 3 MHz

5.1.7 Number of hopping frequency

RESULT:**Passed**

Date of testing : 2012-09-10
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

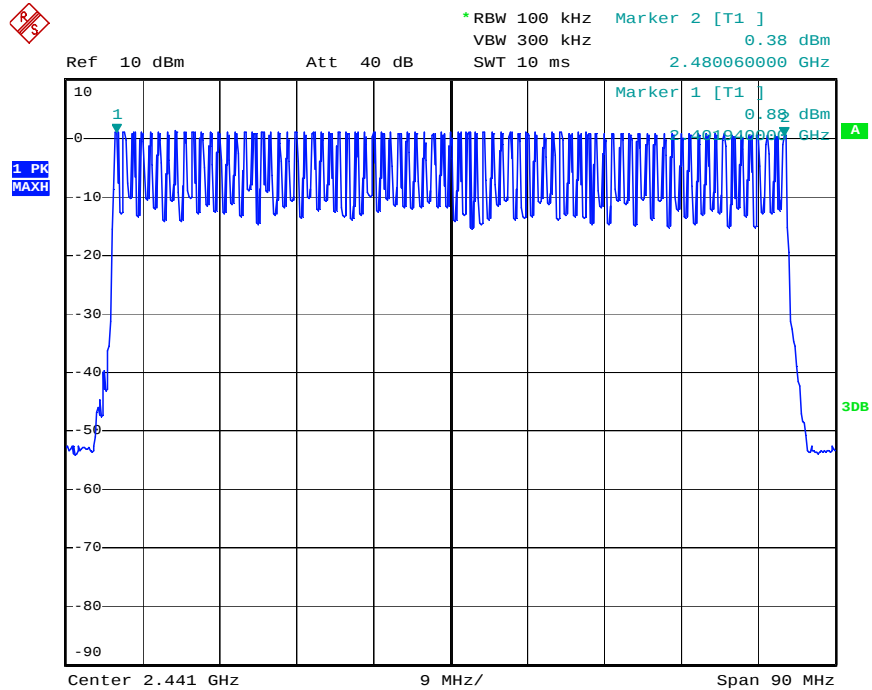
Test setup

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

Table 10: Test result of Number of hopping frequency

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

Test Plot of Number of hopping frequencies



2.441 GHz 9 MHz/ Span 90 MHz

5.1.8 Time of Occupancy

RESULT:**Passed**

Date of testing : 2012-09-10
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 : 20°C
Relative humidity : 50%
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	0.43	0.137	0.4	Pass
	DH3	1.70	0.275	0.4	Pass
	DH5	2.97	0.317	0.4	Pass
Mid Channel	DH1	0.43	0.137	0.4	Pass
	DH3	1.70	0.275	0.4	Pass
	DH5	2.97	0.317	0.4	Pass
High Channel	DH1	0.43	0.137	0.4	Pass
	DH3	1.70	0.275	0.4	Pass
	DH5	2.97	0.317	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	0.44	0.141	0.4	Pass
	DH3	1.72	0.275	0.4	Pass
	DH5	2.97	0.317	0.4	Pass
Mid Channel	DH1	0.44	0.141	0.4	Pass
	DH3	1.72	0.275	0.4	Pass
	DH5	2.97	0.317	0.4	Pass
High Channel	DH1	0.44	0.141	0.4	Pass
	DH3	1.72	0.275	0.4	Pass
	DH5	3.00	0.320	0.4	Pass

Note:

$$\text{Dwell time} = \text{Pulse width} \times (\text{Hopping rate} / \text{Number of channels}) \times \text{Period}$$
$$\text{Period} = 0.4 \text{ (seconds/ channel)} \times 79 \text{ (channel)} = 31.6 \text{ seconds}$$

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Passed**

Test standard : FCC KDB Publication 447498

Since maximum peak output power of the transmitter is $<60/f(\text{GHz})\text{mW}$, i.e.
 $2.81\text{mW} < 25(=60/2.4)\text{mW}$, hence the EUT is excluded from SAR evaluation according to
FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

7. Photographs of the Test Set-Up

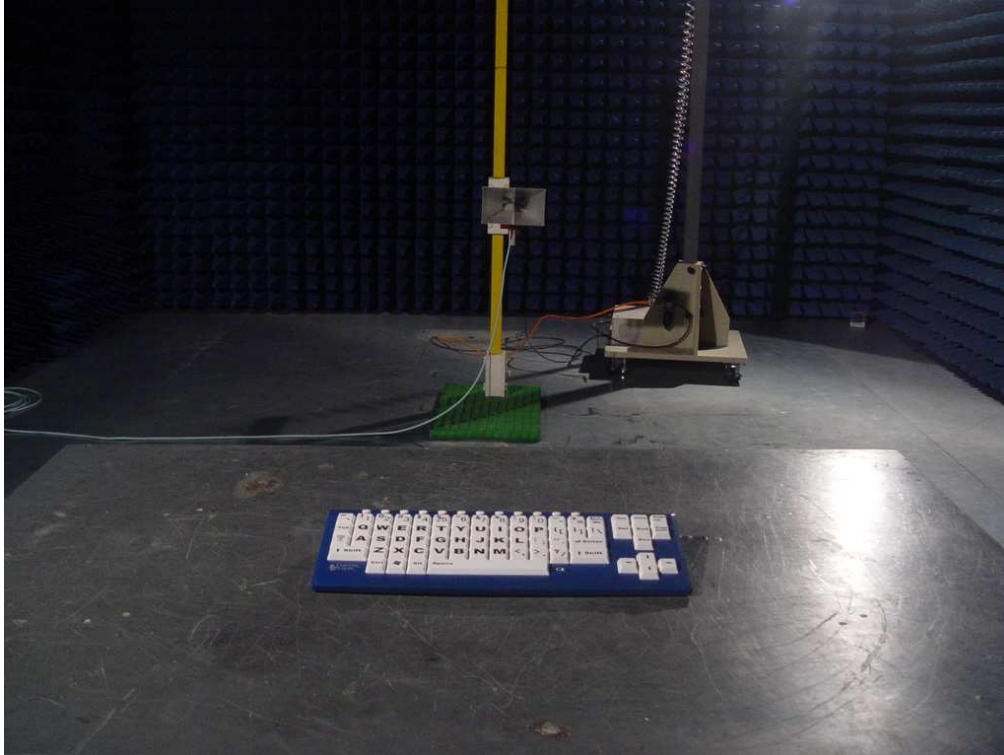
Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)



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



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



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



8. List of Tables

Table 1: List of Test and Measurement Equipment	5
Table 2: Rating of EUT	7
Table 3: Technical Specification of EUT	7
Table 4: Frequency hopping information	8
Table 5: Test result of Peak Output Power, GFSK modulation	14
Table 6: Test result of Peak Output Power, 8DPSK modulation	14
Table 7: Test result of 20dB Bandwidth, GFSK modulation	15
Table 8: Test result of 20dB Bandwidth, 8DPSK modulation	15
Table 9: Test result of Frequency Separation	29
Table 10: Test result of Number of hopping frequency	32
Table 11: Test result of Time of Occupancy, GFSK modulation	34
Table 12: Test result of Time of Occupancy, 8DPSK modulation	35

9. List of Photographs

Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)	37
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)	37
Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz)	38
Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz)	38

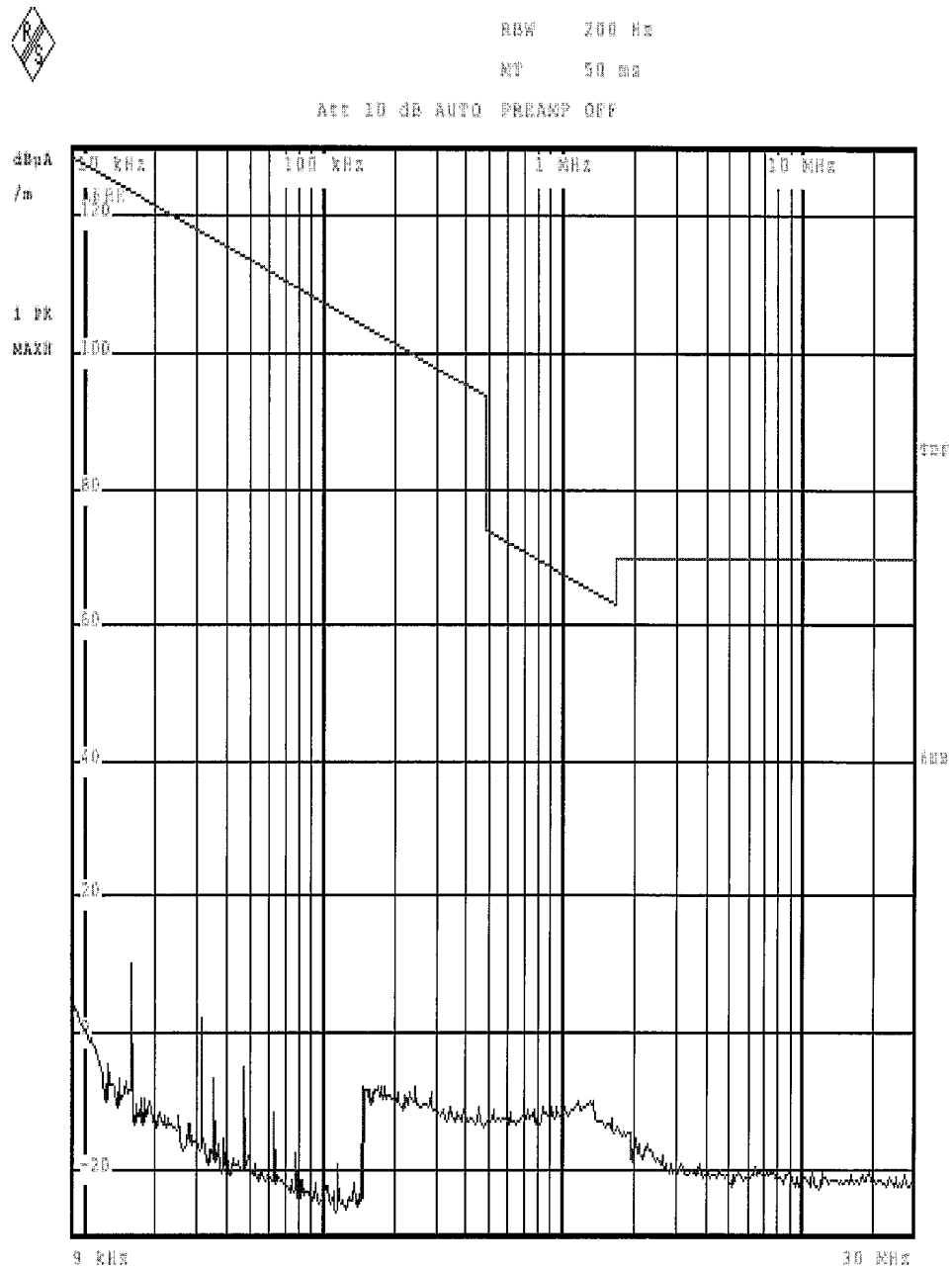
List of Figures

Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz), GFSK Modulation	4
Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz), GFSK Modulation	5
Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz), GFSK Modulation	6
Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz), GFSK Modulation	7
Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz – 18GHz), GFSK Modulation	8
Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), GFSK Modulation	9
Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz – 25GHz), GFSK Modulation	10
Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 25GHz), GFSK Modulation	11
Figure 9: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz), GFSK Modulation	12
Figure 10: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz), GFSK Modulation	13
Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz), GFSK Modulation	14
Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz), GFSK Modulation	15
Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), GFSK Modulation	16
Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), GFSK Modulation	17
Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 25GHz), GFSK Modulation	18
Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 25GHz), GFSK Modulation	19
Figure 17: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz), GFSK Modulation	20
Figure 18: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz), GFSK Modulation	21
Figure 19: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz), GFSK Modulation	22
Figure 20: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz), GFSK Modulation	23
Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz – 18GHz), GFSK Modulation	24
Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), GFSK Modulation	25
Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz – 25GHz), GFSK Modulation	26
Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 25GHz), GFSK Modulation	27
Figure 25: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation	28
Figure 26: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation	29

Figure 27: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation	30
Figure 28: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation	31
Figure 29: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation	32
Figure 30: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation	33
Figure 31: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz – 25GHz), 8DPSK Modulation	34
Figure 32: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 25GHz), 8DPSK Modulation	35
Figure 33: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation	36
Figure 34: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation	37
Figure 35: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation	38
Figure 36: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation	39
Figure 37: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation	40
Figure 38: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation	41
Figure 39: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 25GHz), 8DPSK Modulation	42
Figure 40: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 25GHz), 8DPSK Modulation	43
Figure 41: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation	44
Figure 42: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation	45
Figure 43: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation	46
Figure 44: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation	47
Figure 45: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation	48
Figure 46: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation	49
Figure 47: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz – 25GHz), 8DPSK Modulation	50
Figure 48: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 25GHz), 8DPSK Modulation	51
Figure 49: Test figure of spurious emissions, mode C, Horizontal polarity (9kHz – 30MHz), GFSK Modulation	52
Figure 50: Test figure of spurious emissions, mode C, Vertical polarity (9kHz – 30MHz), GFSK Modulation	53
Figure 51: Test figure of spurious emissions, mode C, Horizontal polarity (30MHz – 1GHz), GFSK Modulation	54
Figure 52: Test figure of spurious emissions, mode C, Vertical polarity (30MHz – 1GHz), GFSK Modulation	55
Figure 53: Test figure of spurious emissions, mode C, Horizontal polarity (1GHz – 18GHz), GFSK Modulation	56
Figure 54: Test figure of spurious emissions, mode C, Vertical polarity (1GHz – 18GHz), GFSK Modulation	57
Figure 55: Test figure of spurious emissions, mode C, Horizontal polarity (18GHz – 25GHz), GFSK Modulation	58

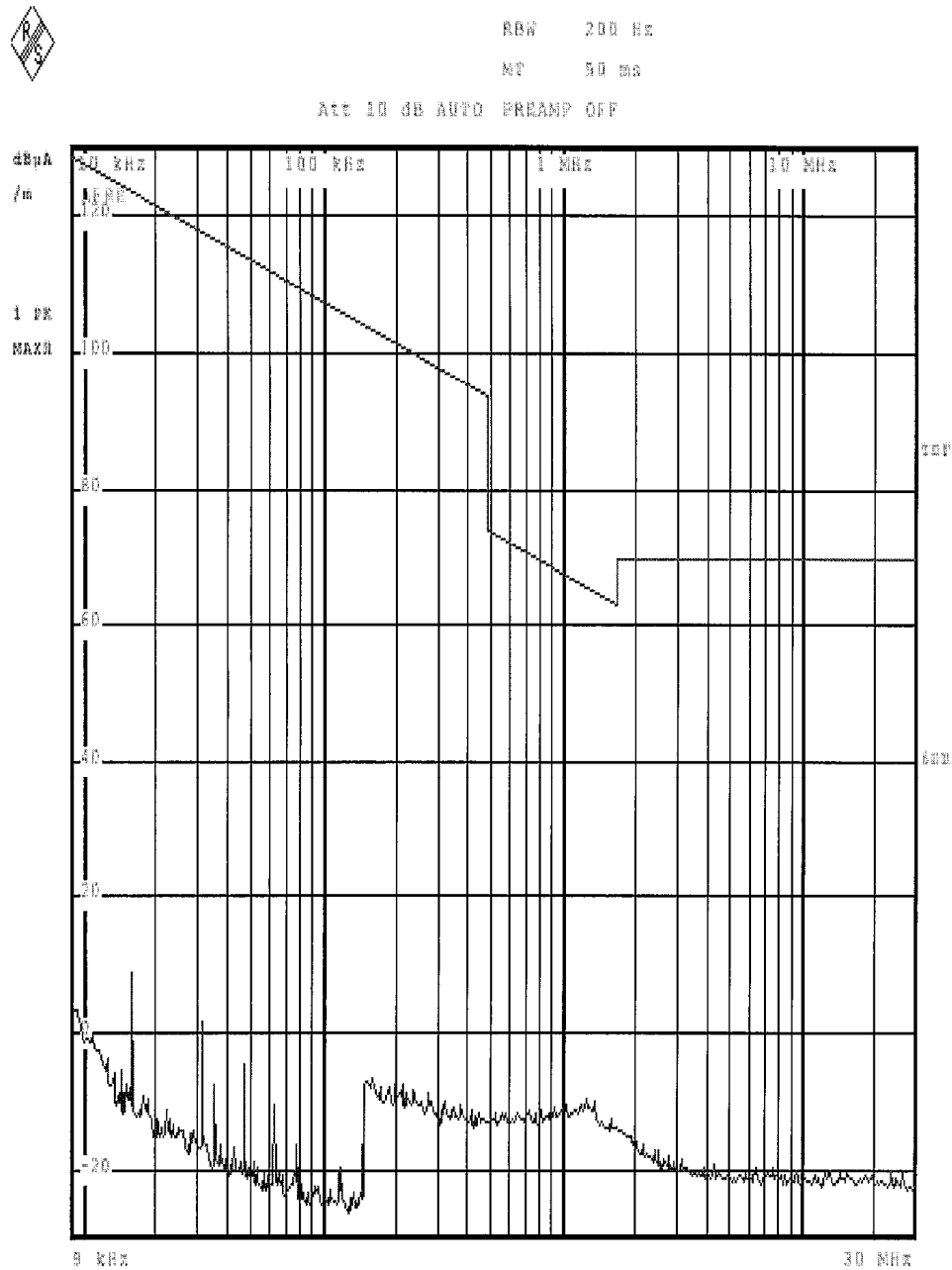
Figure 56: Test figure of spurious emissions, mode C, Vertical polarity (18GHz – 25GHz), GFSK Modulation	59
Figure 57: Test figure of spurious emissions, mode C, Horizontal polarity (9kHz – 30MHz), 8DPSK Modulation	60
Figure 58: Test figure of spurious emissions, mode C, Vertical polarity (9kHz – 30MHz), 8DPSK Modulation	61
Figure 59: Test figure of spurious emissions, mode C, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation	62
Figure 60: Test figure of spurious emissions, mode C, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation	63
Figure 61: Test figure of spurious emissions, mode C, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation	64
Figure 62: Test figure of spurious emissions, mode C, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation	65
Figure 63: Test figure of spurious emissions, mode C, Horizontal polarity (18GHz – 25GHz), 8DPSK Modulation	66
Figure 64: Test figure of spurious emissions, mode C, Vertical polarity (18GHz – 25GHz), 8DPSK Modulation	67
Figure 65: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, GFSK Modulation	68
Figure 66: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, GFSK Modulation	69
Figure 67: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, GFSK Modulation	70
Figure 68: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, GFSK Modulation	71
Figure 69: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, 8DPSK Modulation	72
Figure 70: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, 8DP SK Modulation	73
Figure 71: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, 8DPSK Modulation	74
Figure 72: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, 8DPSK Modulation	75

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



Date: 6.SEP.2012 09:05:02

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



Date: 6.SEP.2012 09:07:02

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #55

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

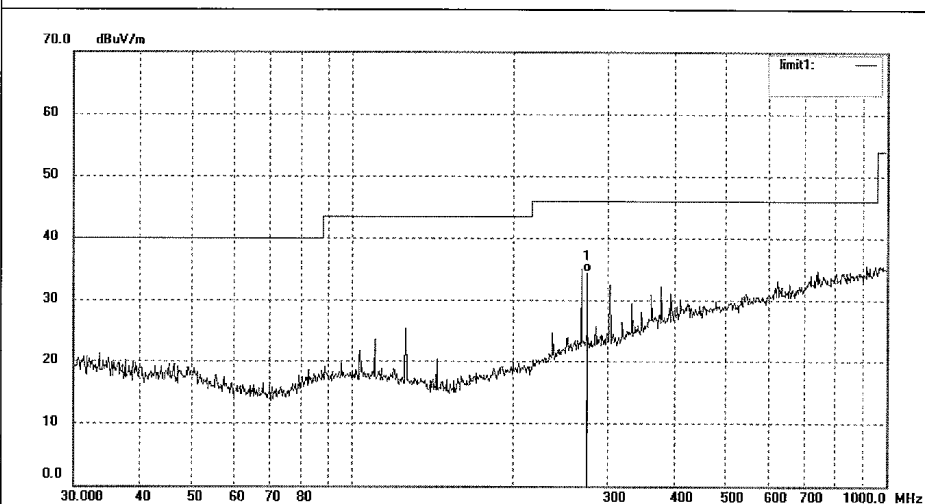
Date: 12/08/31/

Time: 8/19/56

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	271.9924	16.33	18.23	34.56	46.00	-11.44	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #56

Standard: FCC Class B 3M Radiated

Test Item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

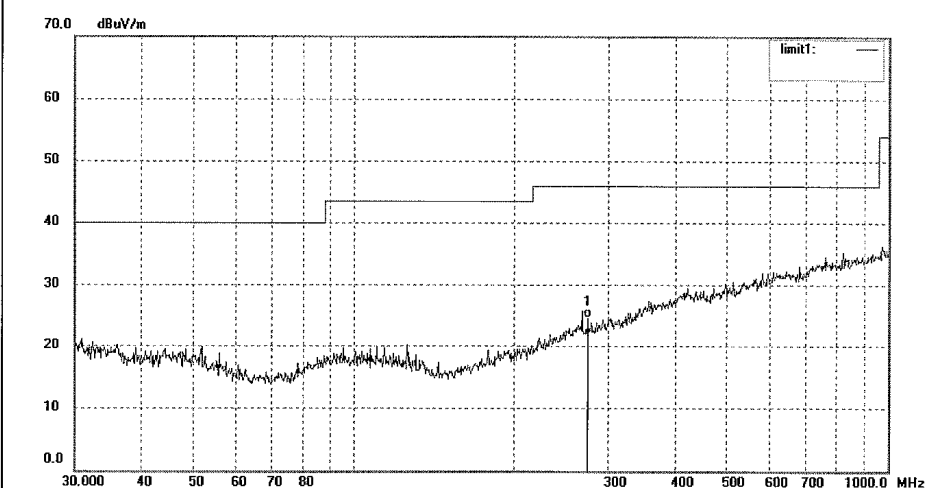
Date: 12/08/31/

Time: 8/27/36

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	272.0025	6.61	18.23	24.84	46.00	-21.16	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #17

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

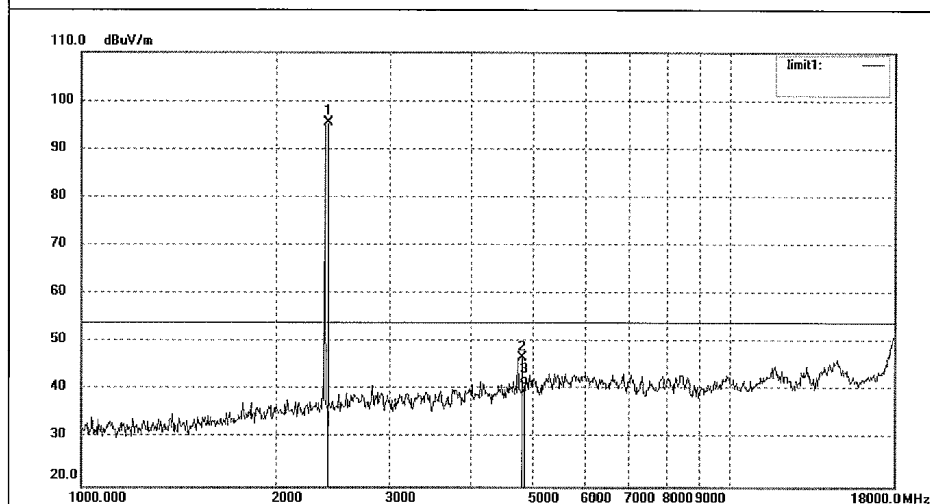
Date: 12/08/27/

Time: 8/01/31

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	2401.846	102.84	-7.46	95.38	/	/	peak			
2	4803.639	46.89	-0.30	46.59	74.00	-27.41	peak			
3	4803.639	41.45	-0.30	41.15	54.00	-12.85	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #18

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

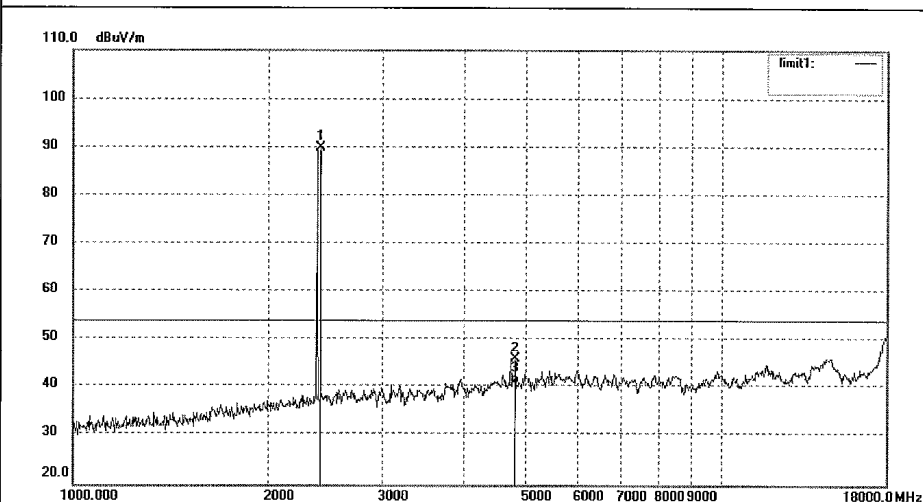
Date: 12/08/27/

Time: 8/12/17

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	2401.848	97.27	-7.46	89.81	/	/	peak			
2	4803.983	46.34	-0.30	46.04	74.00	-27.96	peak			
3	4803.983	41.01	-0.30	40.71	54.00	-13.29	AVG			

Figure 7: Test figure of spurious emissions, mode A.1, 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

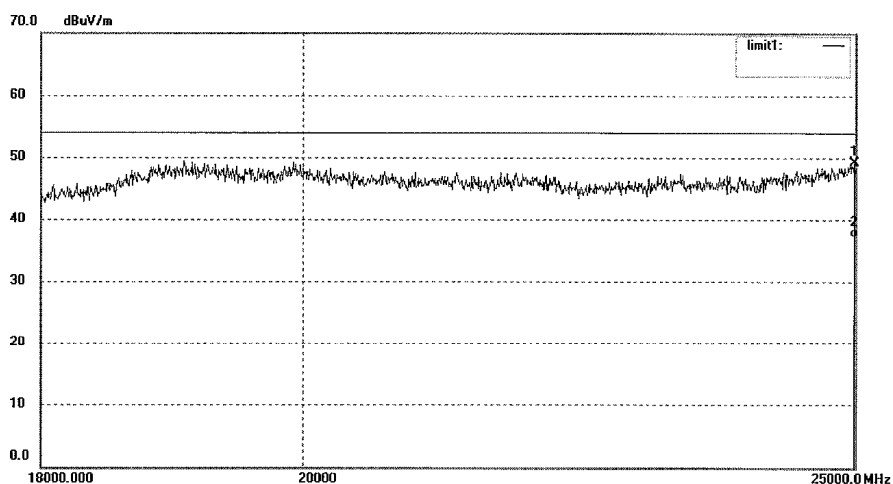
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #132	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/09/07/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 14/54/50
EUT: Bluetooth Keyboard	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BBV	
Manufacturer: Accesspro	

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	24991.772	30.29	18.89	49.18	74.00	-24.82	peak			
2	24991.772	18.25	18.89	37.14	54.00	-16.86	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

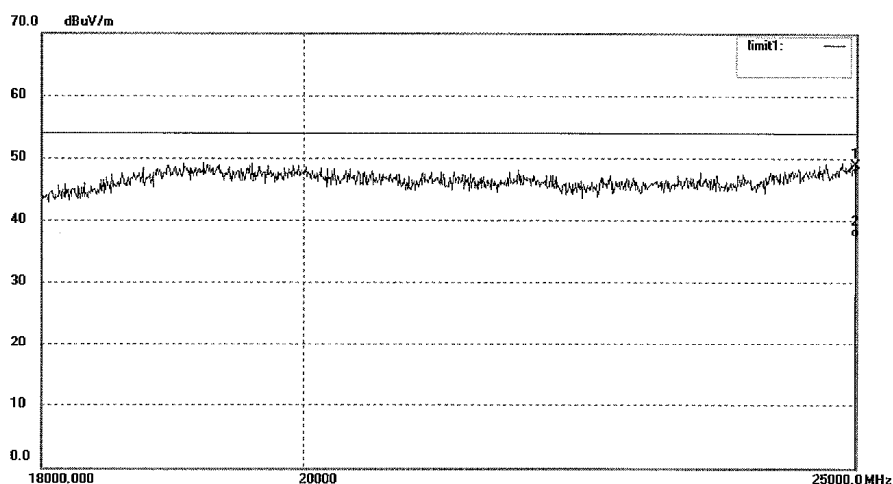
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #133
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Bluetooth Keyboard
Mode: TX 2402MHz
Model: BBV
Manufacturer: Accesspro

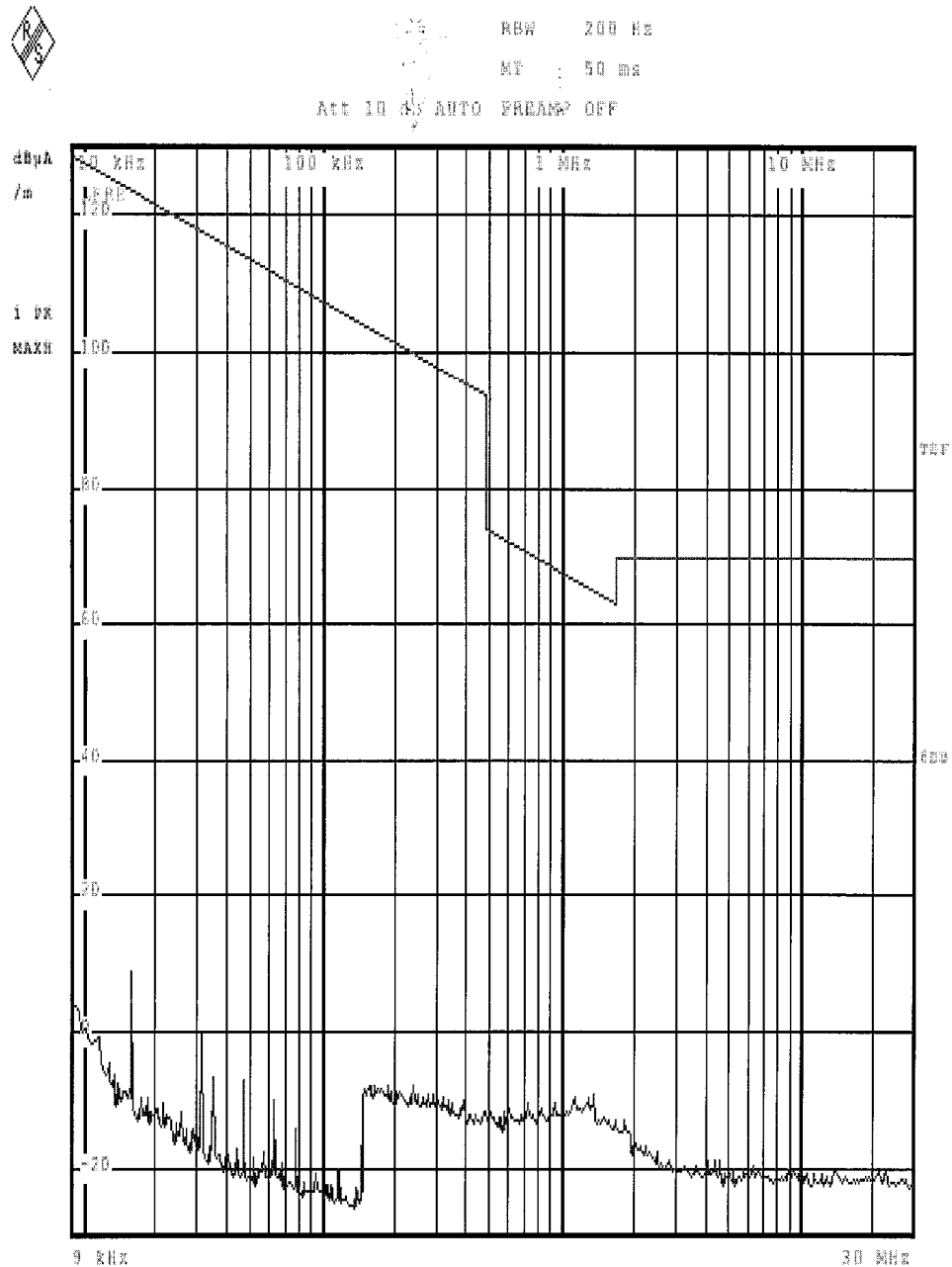
Polarization: Vertical
Power Source: DC 3V
Date: 12/09/07/
Time: 15/01/26
Engineer Signature: PEI
Distance: 3m

Note: BDR



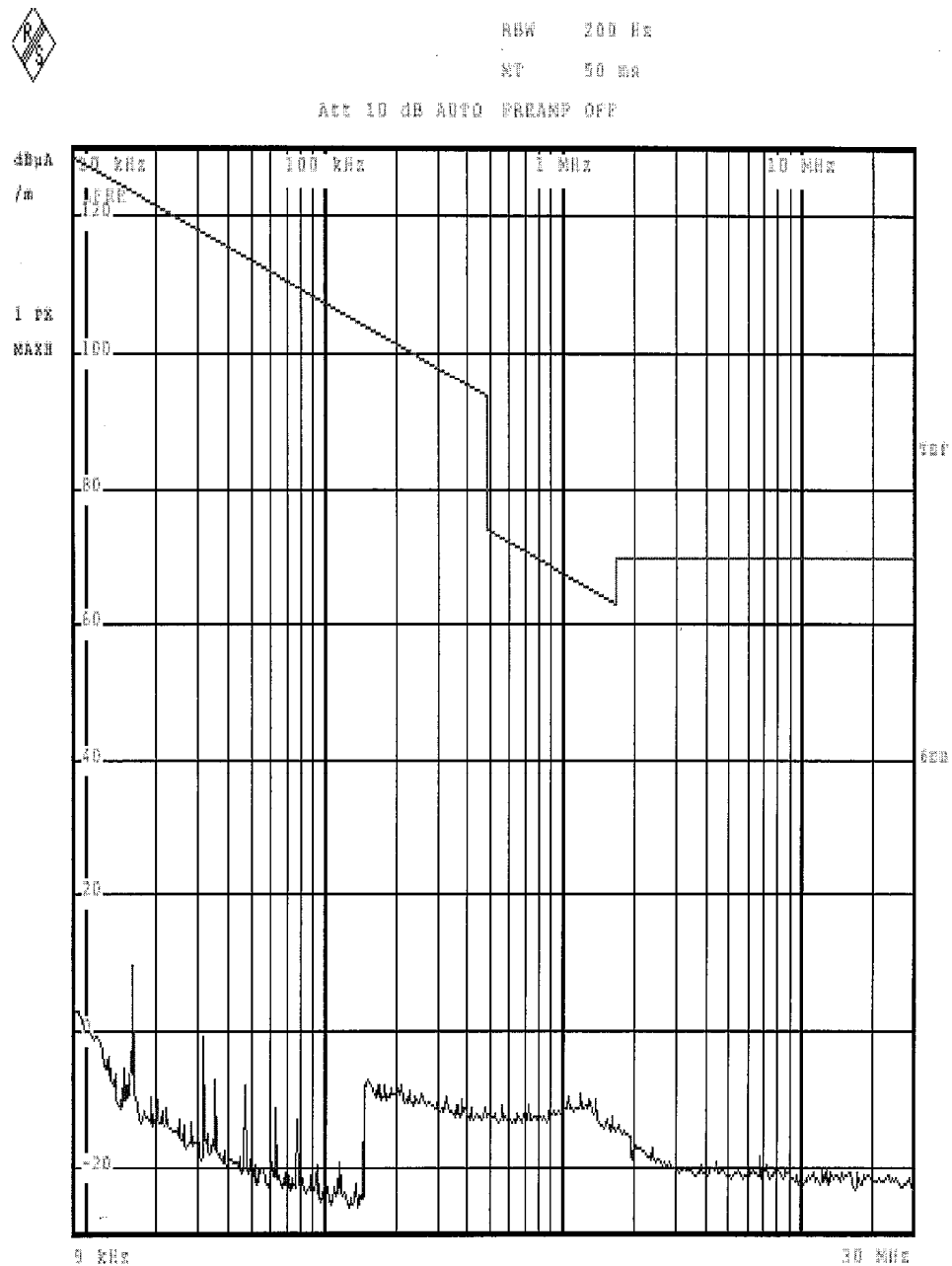
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24991.772	30.09	18.89	48.98	74.00	-25.02	peak			
2	24991.772	18.51	18.89	37.40	54.00	-16.60	AVG			

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



Date: 6.SEP.2012 09:11:07

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



Date: 6.SEP.2012 09:13:09

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #58

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2441MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

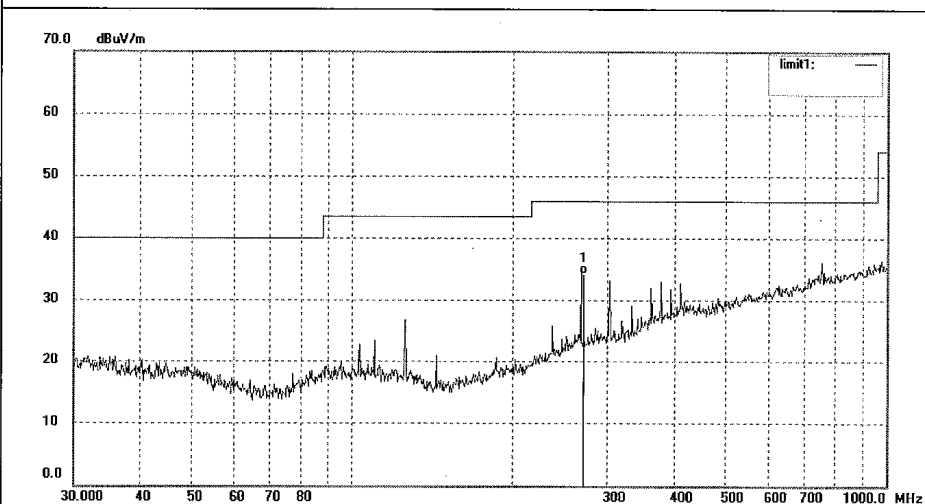
Date: 12/08/31/

Time: 8/44/13

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	271.9968	16.05	18.23	34.28	46.00	-11.72	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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #57

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2441MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

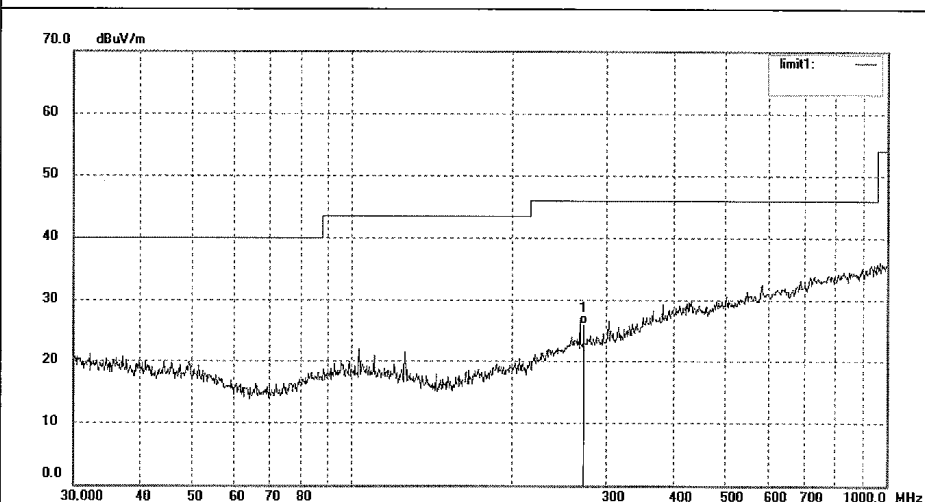
Date: 12/08/31/

Time: 8/36/30

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	271.9959	7.96	18.23	26.19	46.00	-19.81	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: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #21

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2441MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

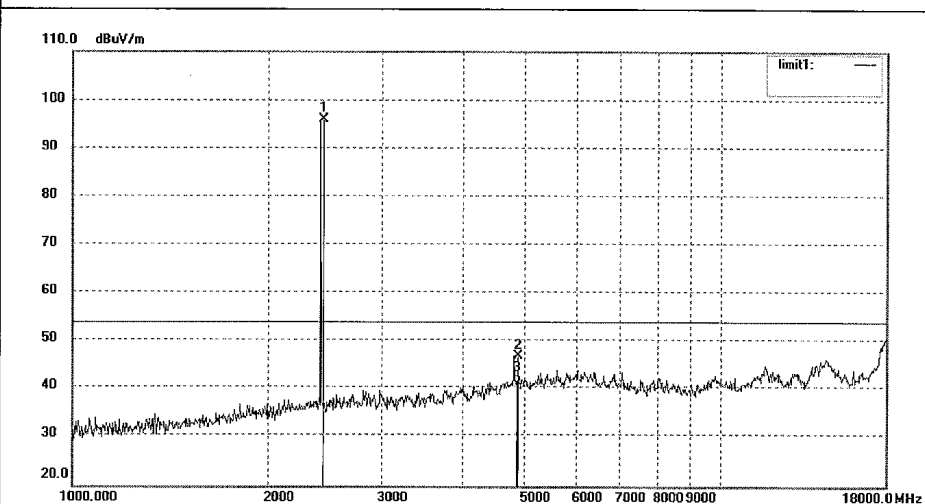
Date: 12/08/27/

Time: 9/25/59

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	2441.846	103.19	-7.35	95.84	/	/	peak			
2	4881.946	46.82	0.14	46.96	74.00	-27.04	peak			
3	4881.946	41.23	0.14	41.37	54.00	-12.63	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #22

Standard: FCC Class B 3M Radiated

Test Item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2441MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

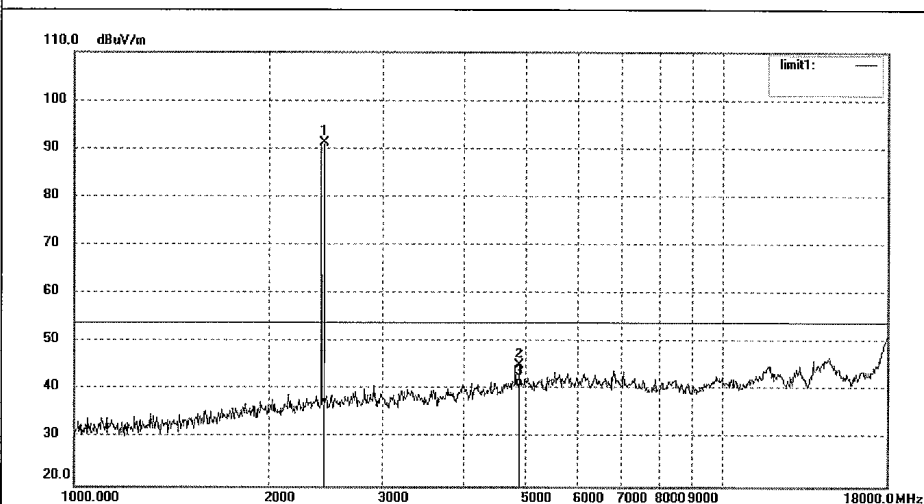
Date: 12/08/27/

Time: 9/38/11

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	2440.872	98.58	-7.35	91.23	/	/	peak			
2	4882.073	44.96	0.14	45.10	74.00	-28.90	peak			
3	4882.073	40.46	0.14	40.60	54.00	-13.40	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: 966 chamber

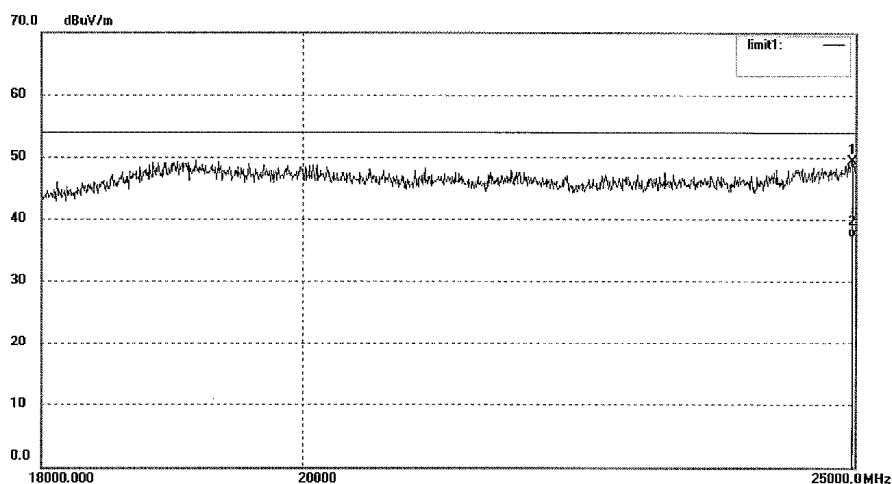
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #135
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Bluetooth Keyboard
Mode: TX 2441MHz
Model: BBV
Manufacturer: Accesspro

Polarization: Horizontal
Power Source: DC 3V
Date: 12/09/07/
Time: 15/22/14
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	24975.325	30.61	18.86	49.47	74.00	-24.53	peak			
2	24975.325	18.26	18.86	37.12	54.00	-16.88	AVG			

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

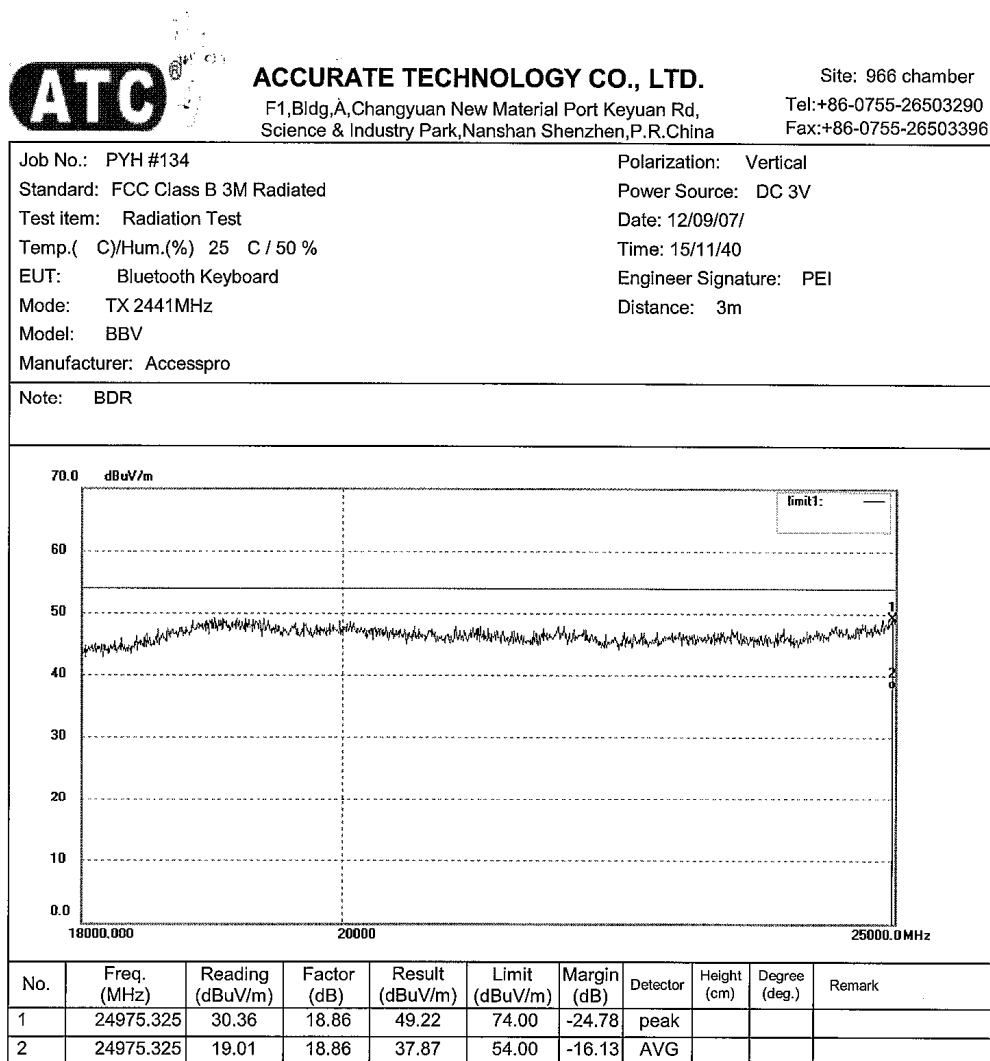
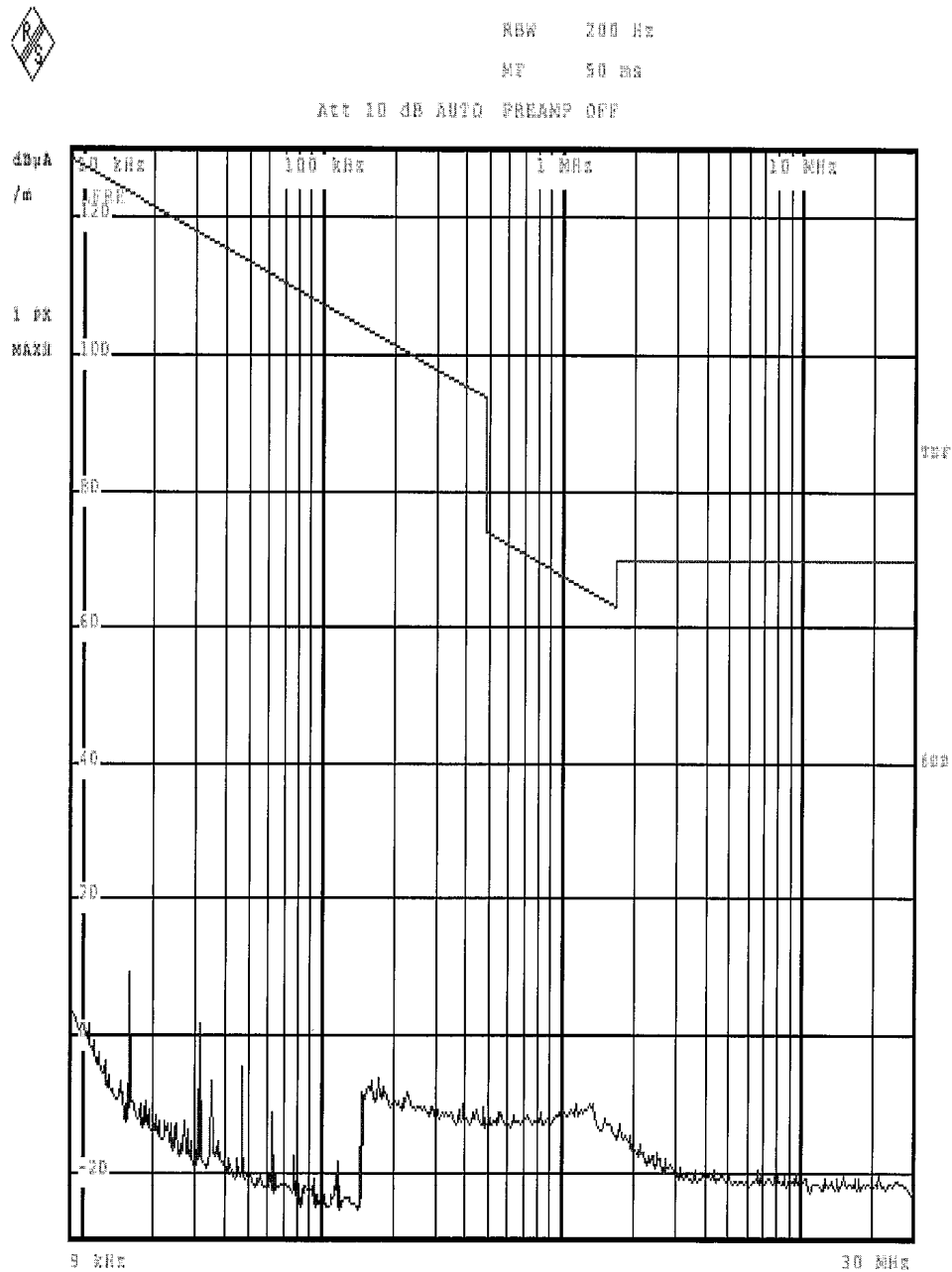
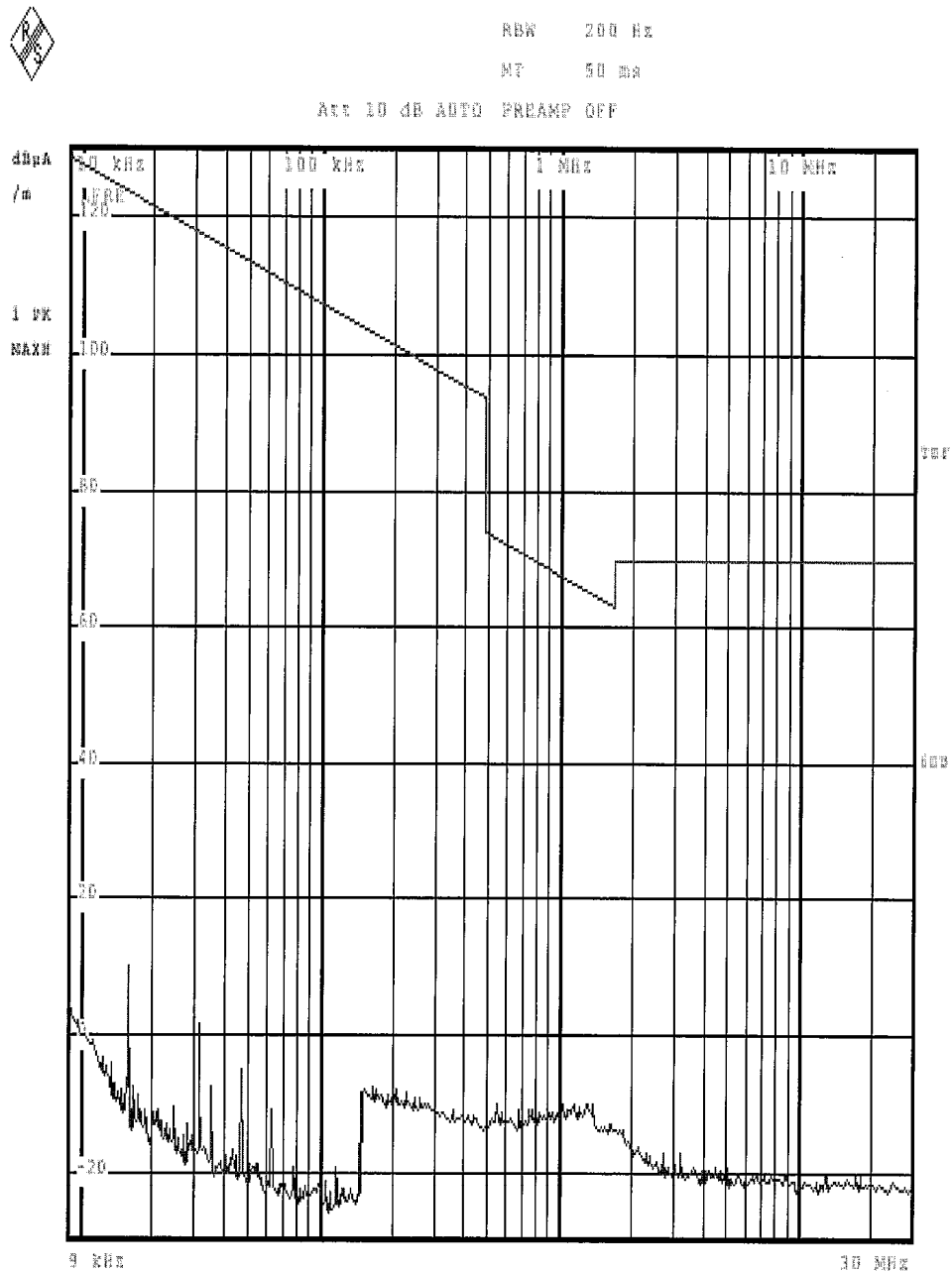


Figure 17: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz), GFSK Modulation



Date: 6.SEP.2012 09:17:10

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



Date: 6.SEP.2012 09:19:14

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #59

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

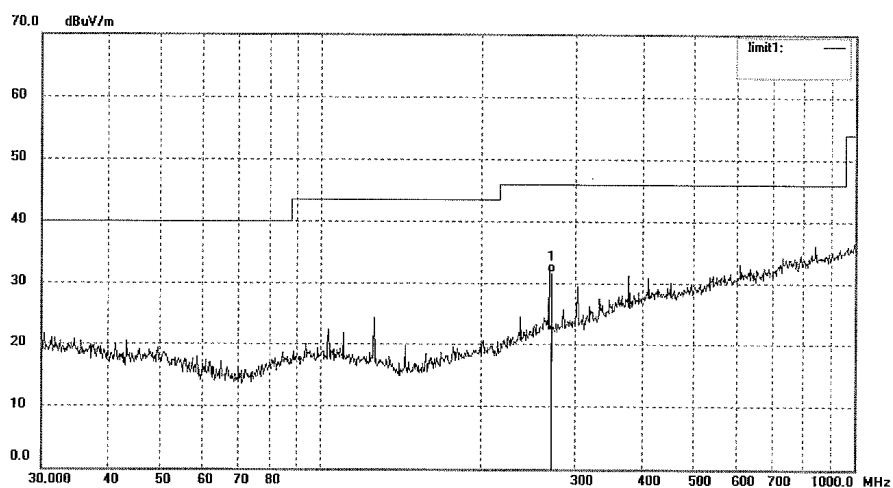
Date: 12/08/31/

Time: 8/52/07

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	272.0087	13.51	18.23	31.74	46.00	-14.26	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #60

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

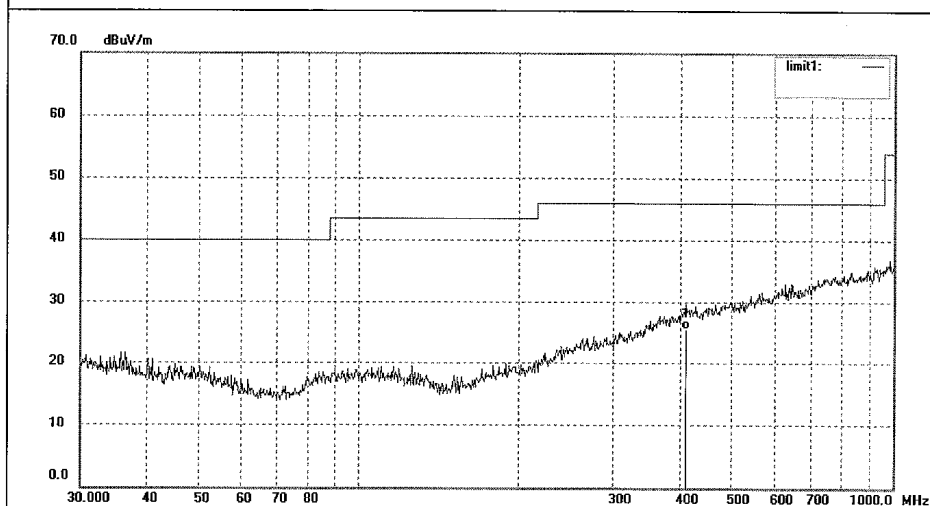
Date: 12/08/31/

Time: 9/01/11

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	411.0924	2.82	22.90	25.72	46.00	-20.28	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #24

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

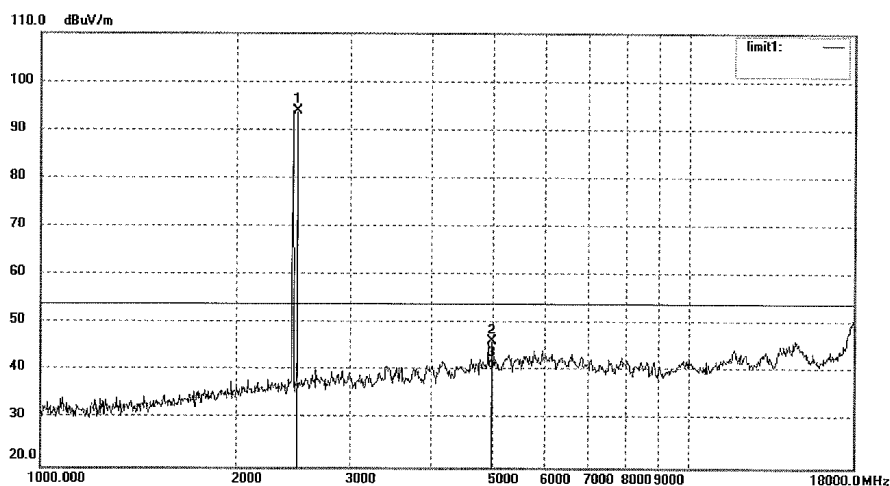
Date: 12/08/27/

Time: 10/10/04

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	2479.858	101.34	-7.37	93.97	/	/	peak			
2	4959.943	45.60	0.52	46.12	74.00	-27.88	peak			
3	4959.943	40.08	0.52	40.60	54.00	-13.40	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #23

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

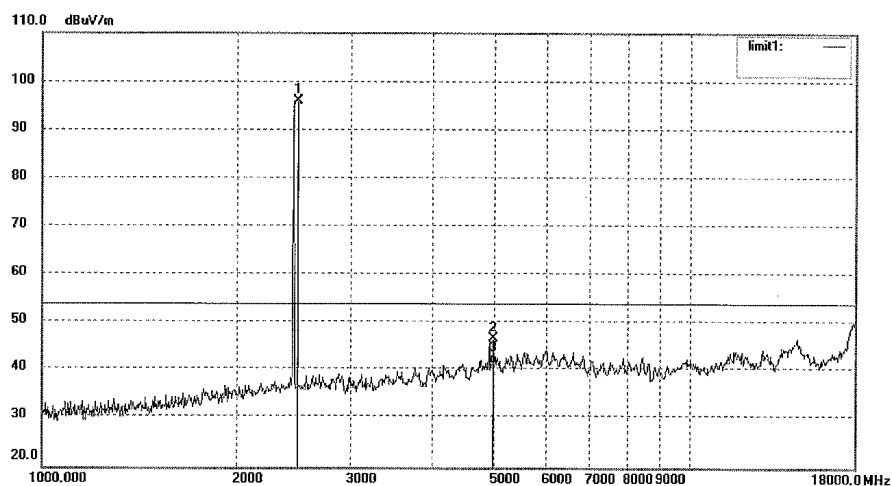
Date: 12/08/27/

Time: 10/00/02

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	2479.858	103.32	-7.37	95.95	/	/	peak			
2	4959.695	46.21	0.52	46.73	74.00	-27.27	peak			
3	4959.695	40.87	0.52	41.39	54.00	-12.61	AVG			

Figure 23: Test figure of spurious emissions, mode A.3, 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: 966 chamber

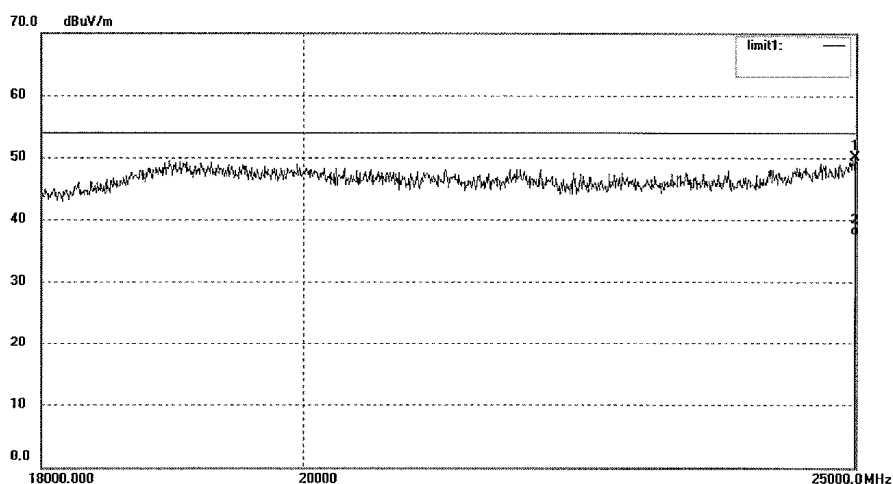
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #136
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Bluetooth Keyboard
Mode: TX 2480MHz
Model: BBV
Manufacturer: Accesspro

Polarization: Horizontal
Power Source: DC 3V
Date: 12/09/07/
Time: 15/33/25
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	24991.772	31.23	18.89	50.12	74.00	-23.88	peak			
2	24991.772	18.59	18.89	37.48	54.00	-16.52	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #137

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

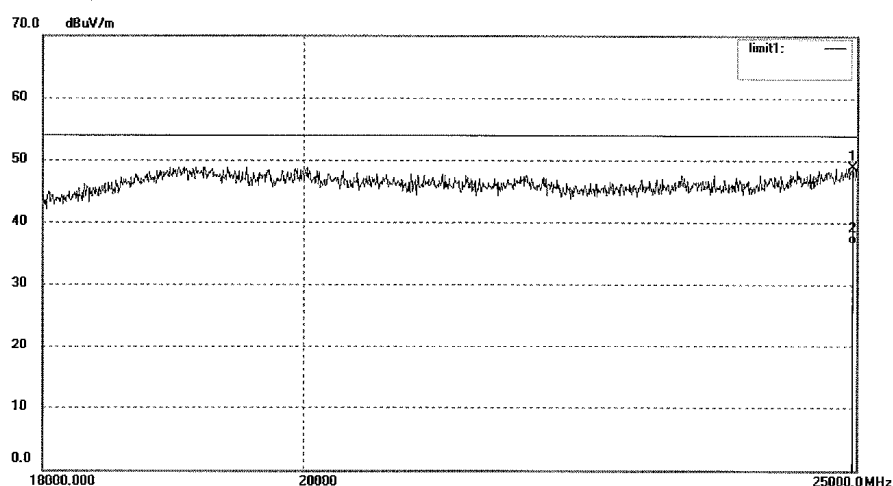
Date: 12/09/07/

Time: 15/46/58

Engineer Signature: PEI

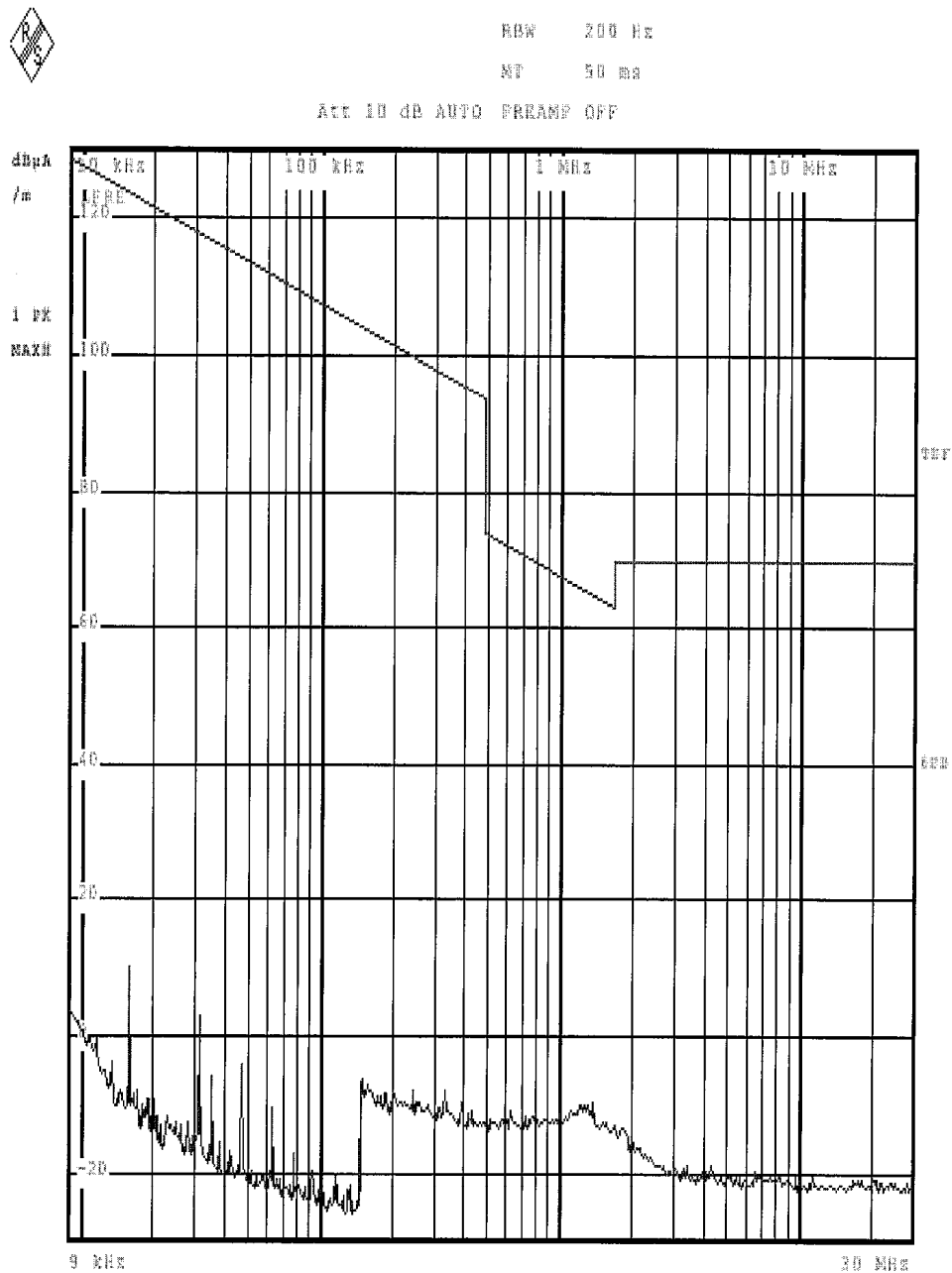
Distance: 3m

Note: BDR



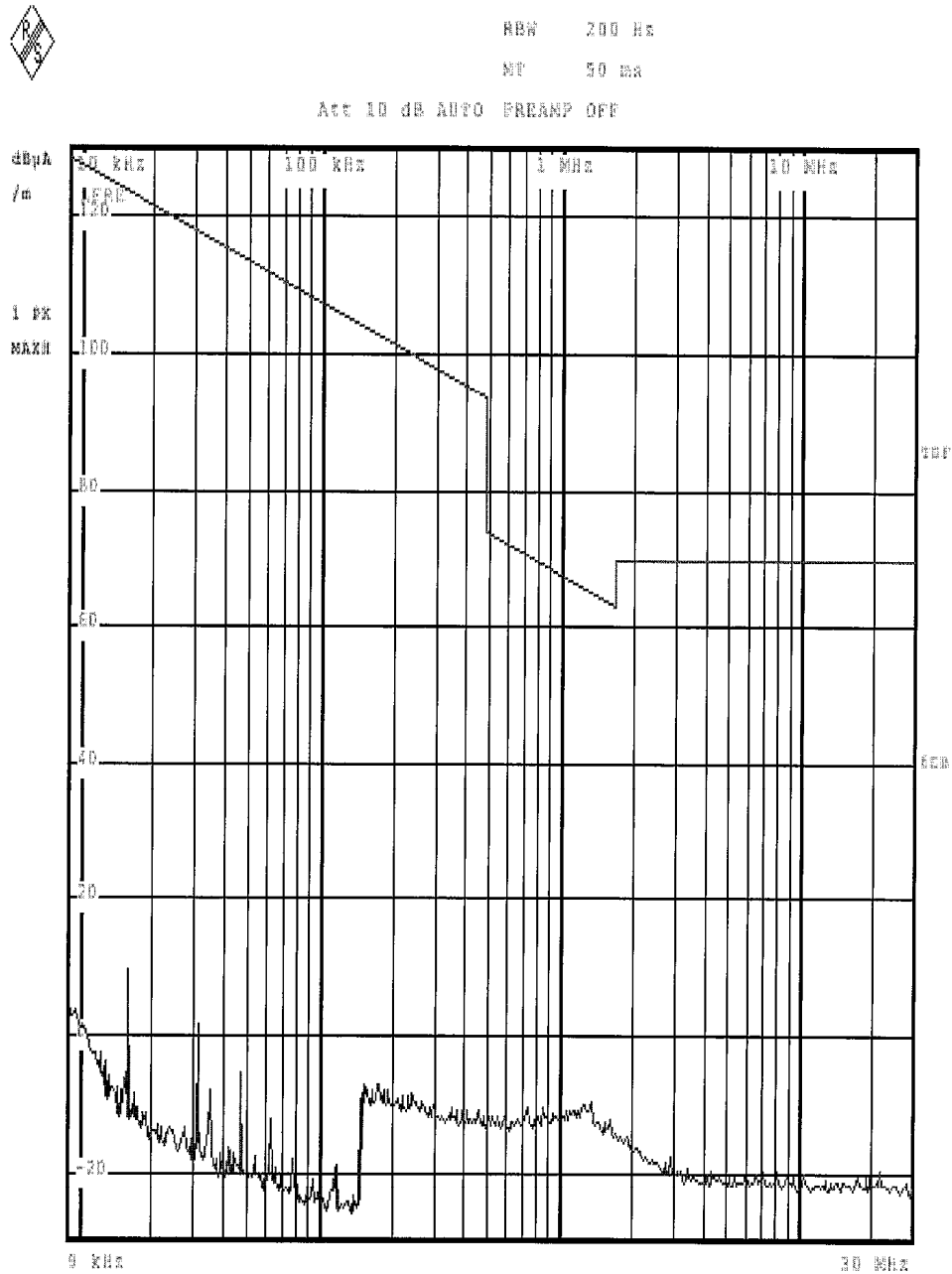
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24958.889	30.10	18.84	48.94	74.00	-25.06	peak			
2	24958.889	17.86	18.84	36.70	54.00	-17.30	AVG			

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



Date: 6.SEP.2012 08:56:54

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



Date: 6.SEP.2012 09:01:01

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #61

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

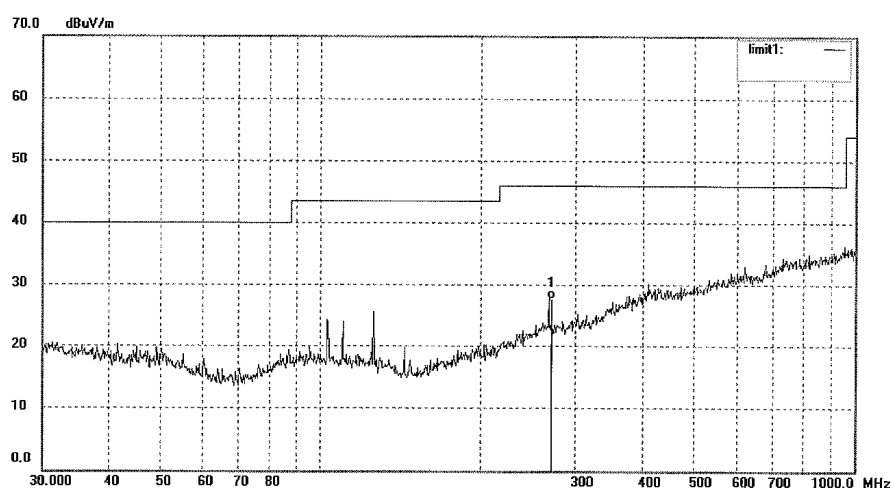
Date: 12/08/31/

Time: 9/09/24

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	271.9987	9.55	18.23	27.78	46.00	-18.22	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #62

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

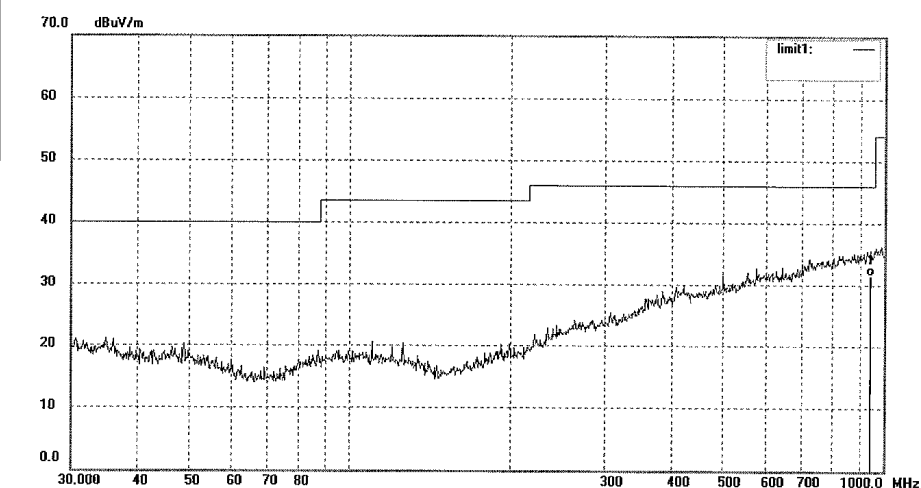
Date: 12/08/31/

Time: 9/17/41

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	945.3336	2.09	29.46	31.55	46.00	-14.45	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #29

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

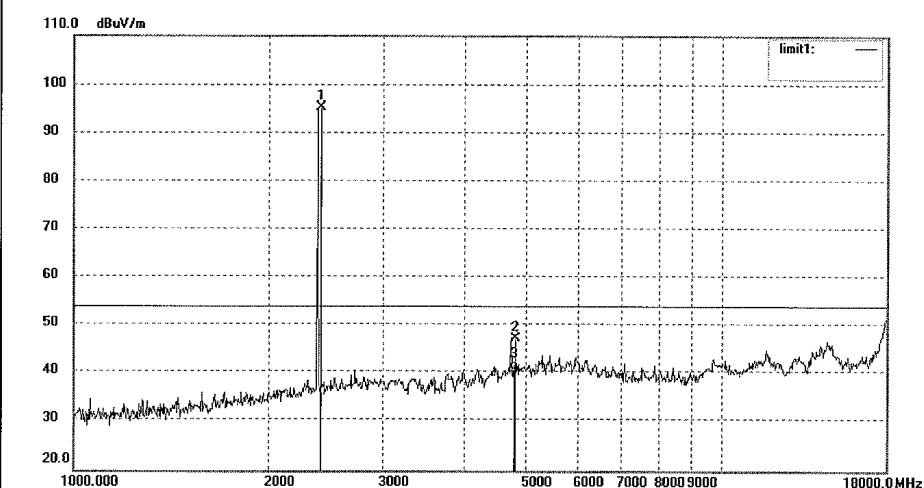
Date: 12/08/28/

Time: 8/29/55

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	2402.009	102.72	-7.45	95.27	/	/	peak			
2	4804.017	47.63	-0.30	47.33	74.00	-26.67	peak			
3	4804.017	41.05	-0.30	40.75	54.00	-13.25	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #30

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

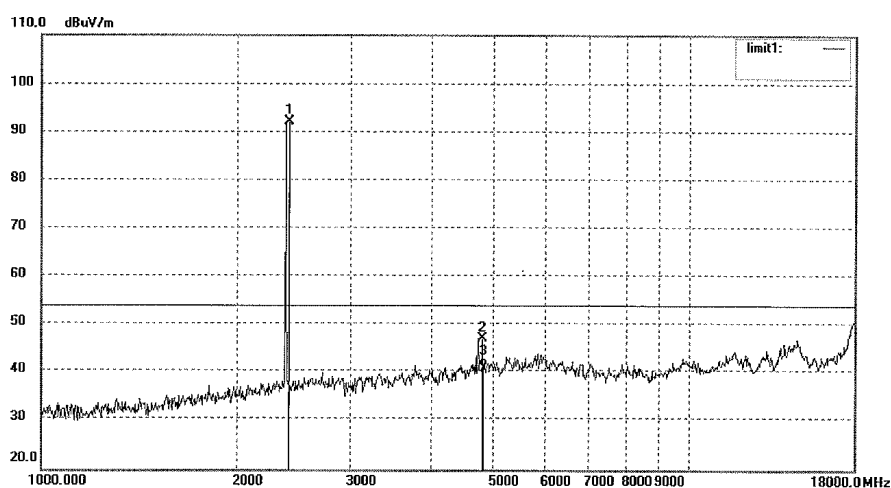
Date: 12/08/28/

Time: 8/39/22

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	2401.858	99.49	-7.46	92.03	/	/	peak			
2	4803.957	47.35	-0.30	47.05	74.00	-26.95	peak			
3	4803.957	41.67	-0.30	41.37	54.00	-12.63	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

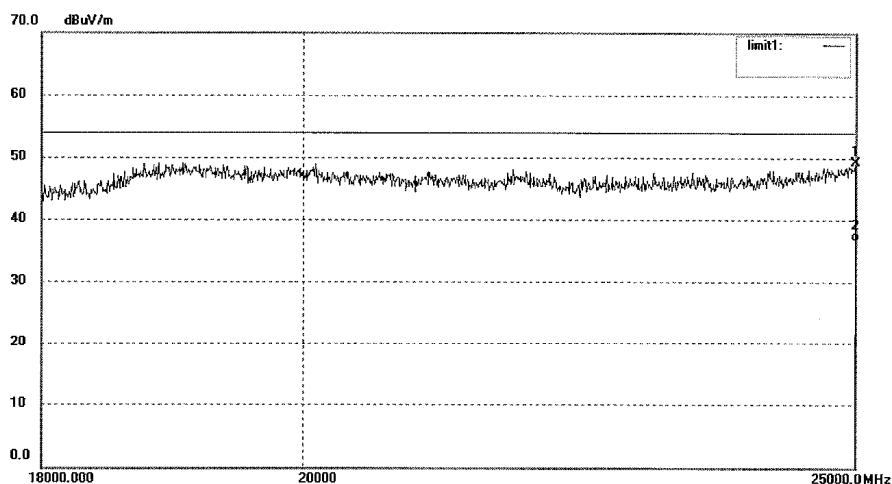
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #139
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Bluetooth Keyboard
Mode: TX 2402MHz
Model: BBV
Manufacturer: Accesspro

Polarization: Horizontal
Power Source: DC 3V
Date: 12/09/07/
Time: 16/02/21
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	25000.000	30.32	18.90	49.22	74.00	-24.78	peak			
2	25000.000	17.85	18.90	36.75	54.00	-17.25	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

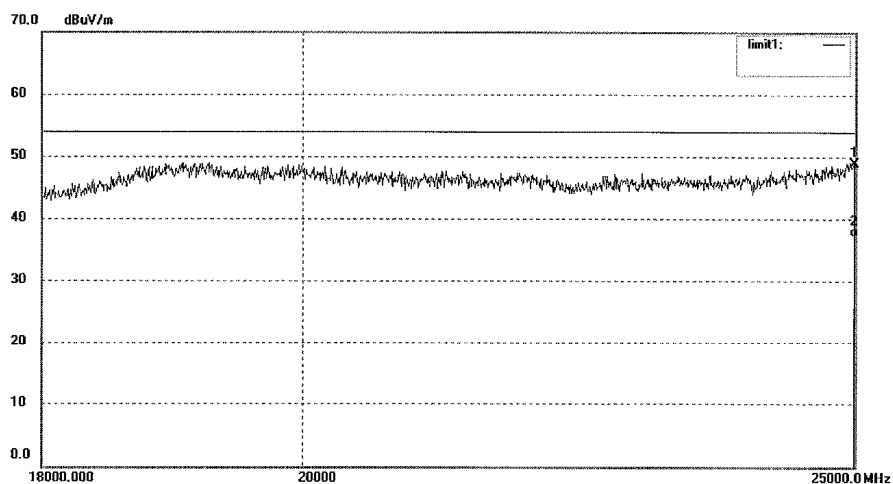
Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: PYH #138
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Bluetooth Keyboard
Mode: TX 2402MHz
Model: BBV
Manufacturer: Accesspro

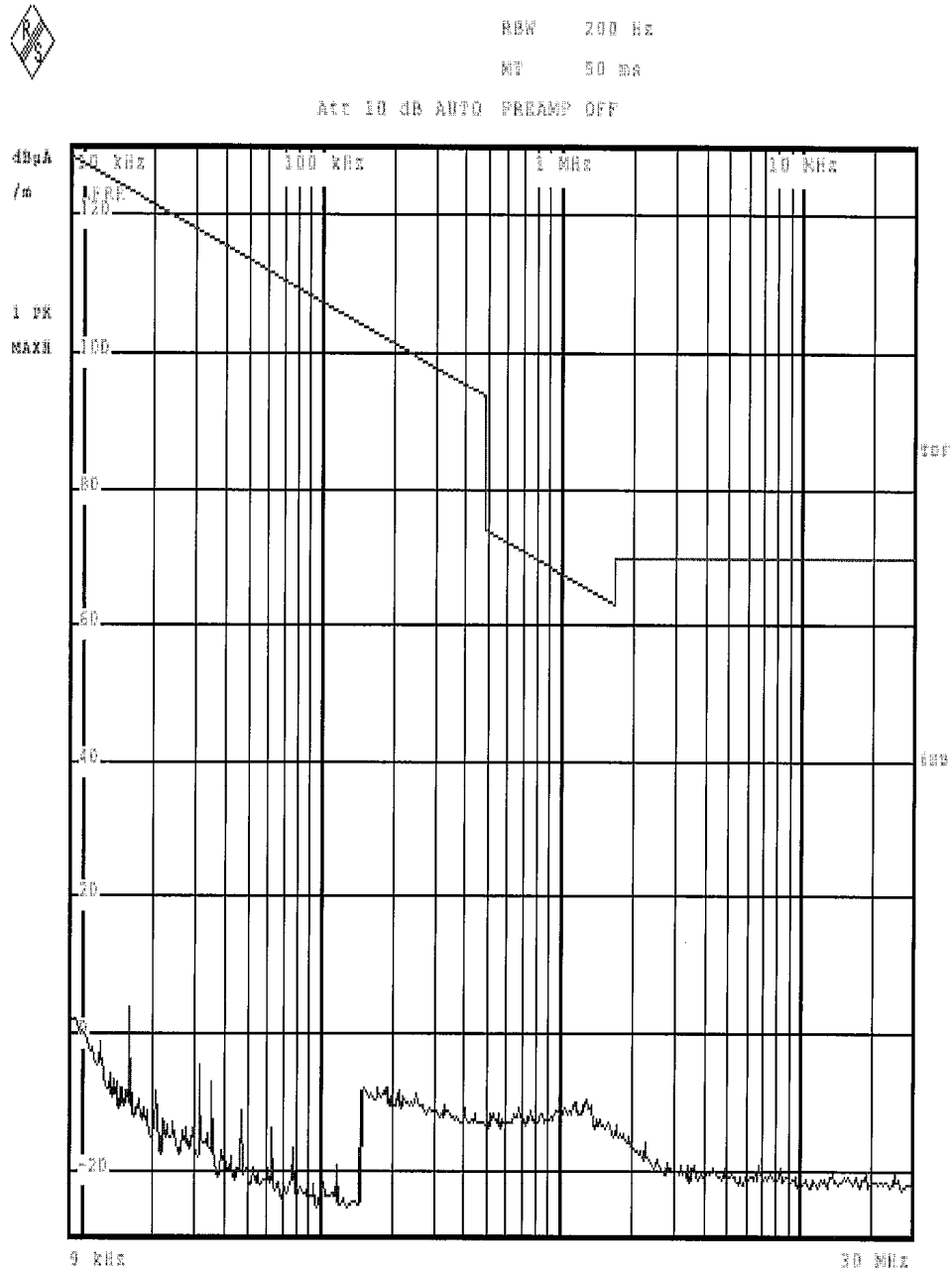
Polarization: Vertical
Power Source: DC 3V
Date: 12/09/07/
Time: 15/54/46
Engineer Signature: PEI
Distance: 3m

Note: EDR



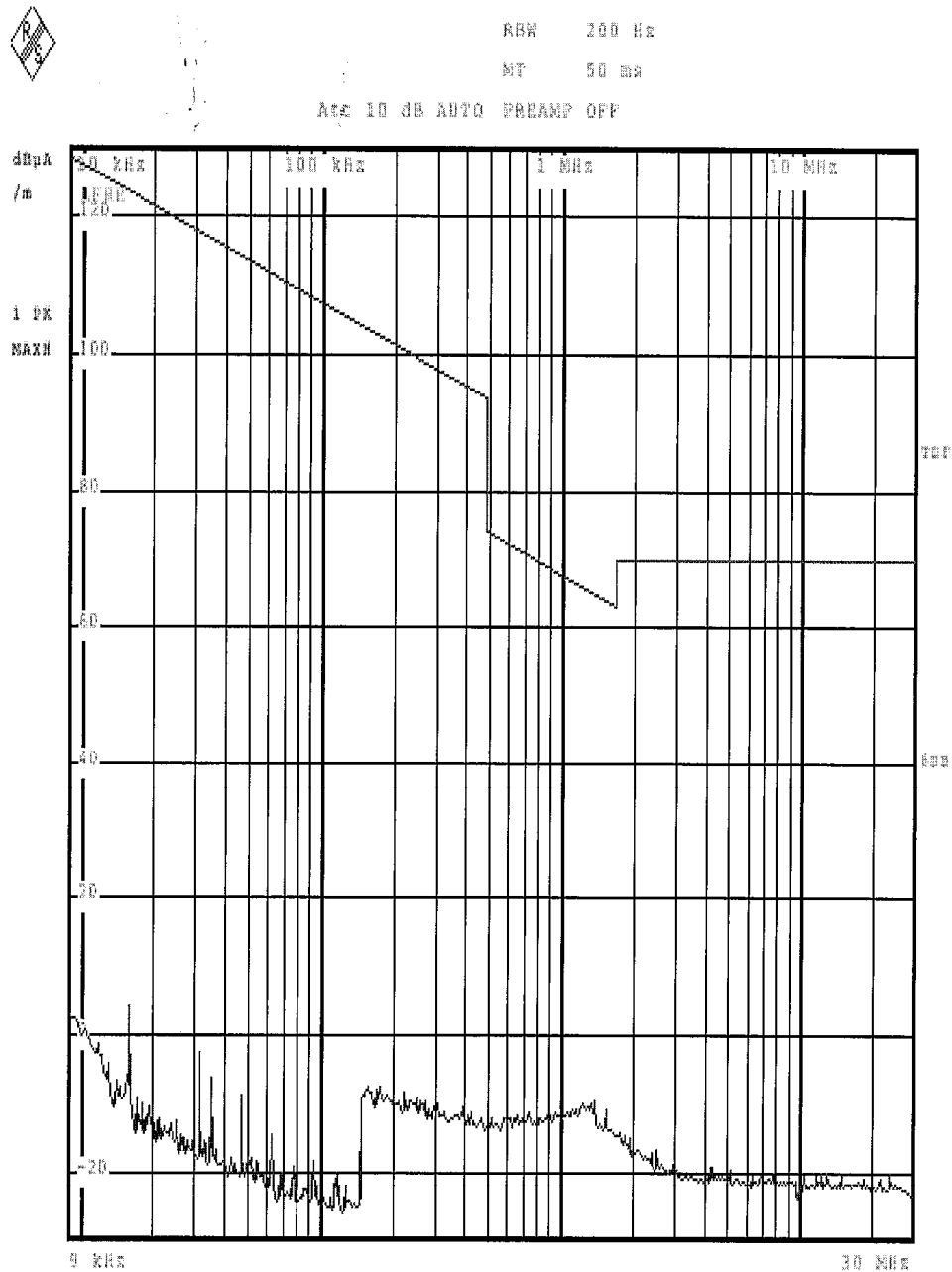
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24991.772	30.10	18.89	48.99	74.00	-25.01	peak			
2	24991.772	18.32	18.89	37.21	54.00	-16.79	AVG			

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



Date: 6.SEP.2012 09:25:17

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



Date: 6.SEP.2012 09:27:16

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #63

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2441MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

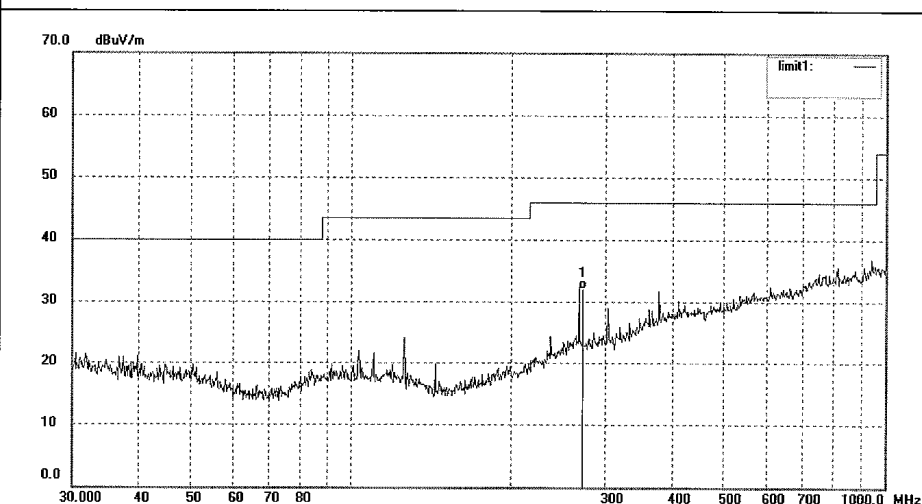
Date: 12/08/31/

Time: 9/26/47

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	271.9959	13.91	18.23	32.14	46.00	-13.86	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #64

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2441MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

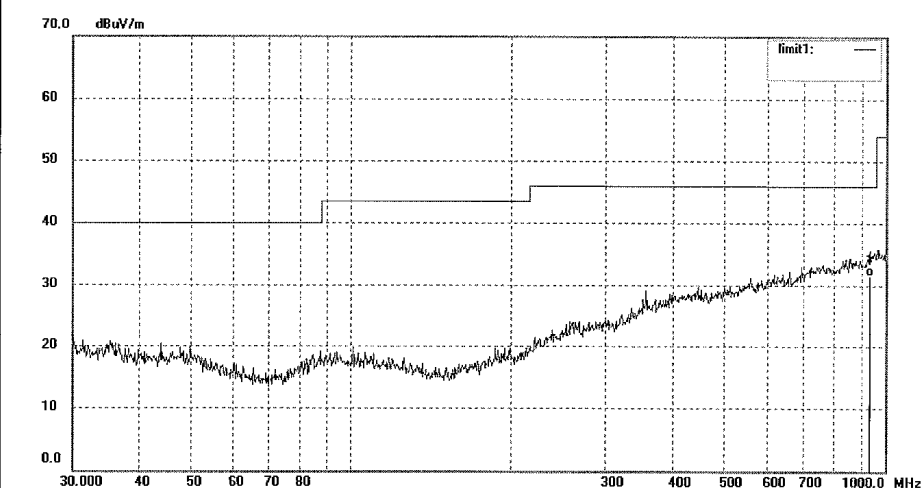
Date: 12/08/31/

Time: 9/37/50

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	935.4212	2.33	29.26	31.59	46.00	-14.41	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #28

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2441MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

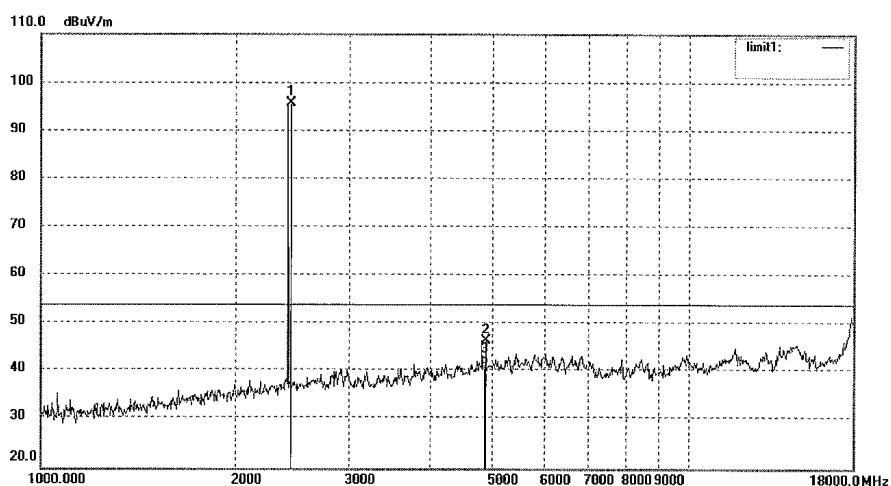
Date: 12/08/28/

Time: 8/18/36

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	2441.014	103.02	-7.35	95.67	/	/	peak			
2	4881.932	46.27	0.14	46.41	74.00	-27.59	peak			
3	4881.932	41.35	0.14	41.49	54.00	-12.51	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #27

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2441MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

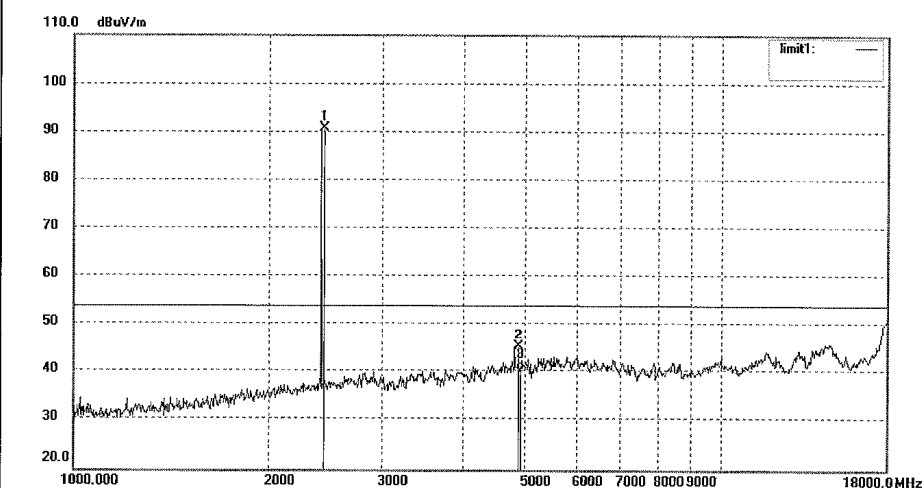
Date: 12/08/28/

Time: 8/07/40

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	2440.840	98.15	-7.35	90.80	/	/	peak			
2	4882.004	45.36	0.14	45.50	74.00	-28.50	peak			
3	4882.004	40.51	0.14	40.65	54.00	-13.35	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

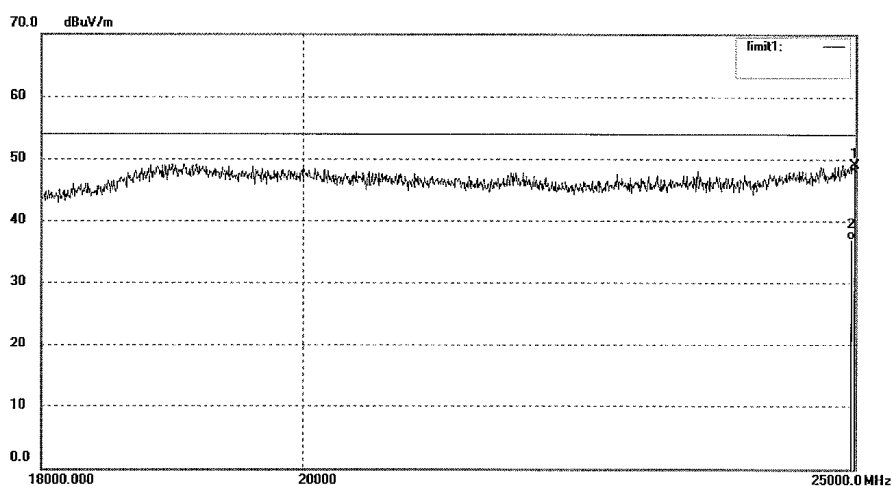
Site: 966 chamber

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

Job No.: PYH #140
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Bluetooth Keyboard
Mode: TX 2440MHz
Model: BBV
Manufacturer: Accesspro

Polarization: Horizontal
Power Source: DC 3V
Date: 12/09/07/
Time: 16/11/38
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	24991.772	30.22	18.89	49.11	74.00	-24.89	peak			
2	24991.772	18.15	18.89	37.04	54.00	-16.96	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

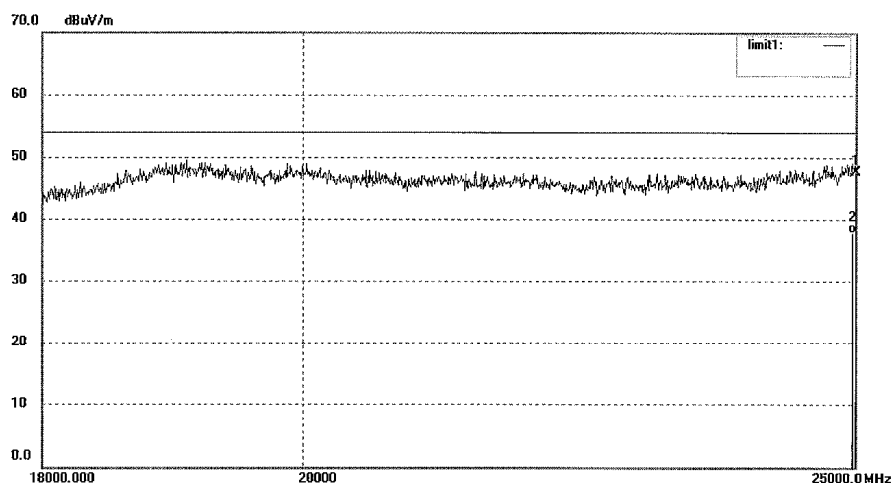
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #141
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Bluetooth Keyboard
Mode: TX 2441MHz
Model: BBV
Manufacturer: Accesspro

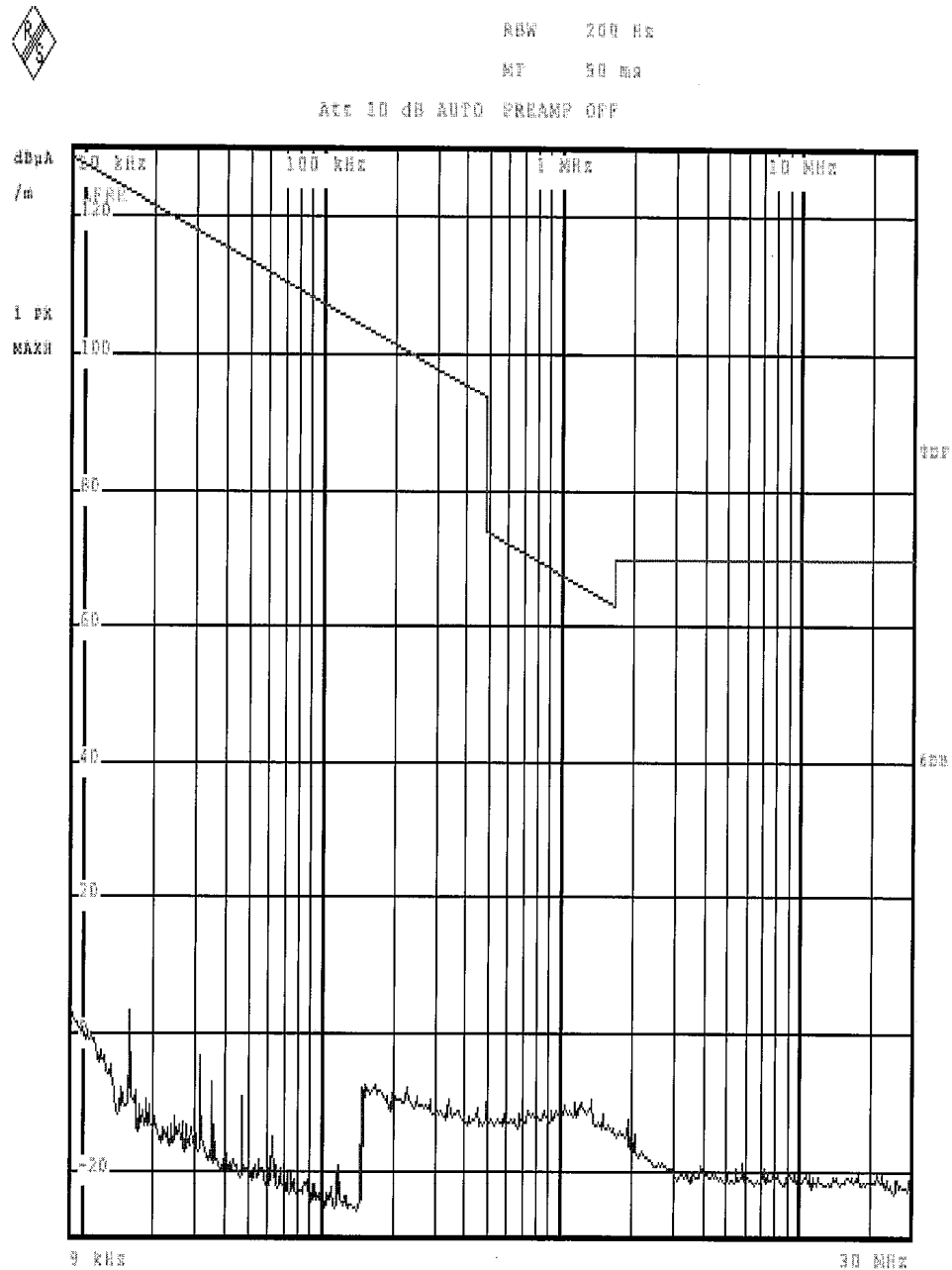
Polarization: Vertical
Power Source: DC 3V
Date: 12/09/07/
Time: 16/23/11
Engineer Signature: PEI
Distance: 3m

Note: EDR



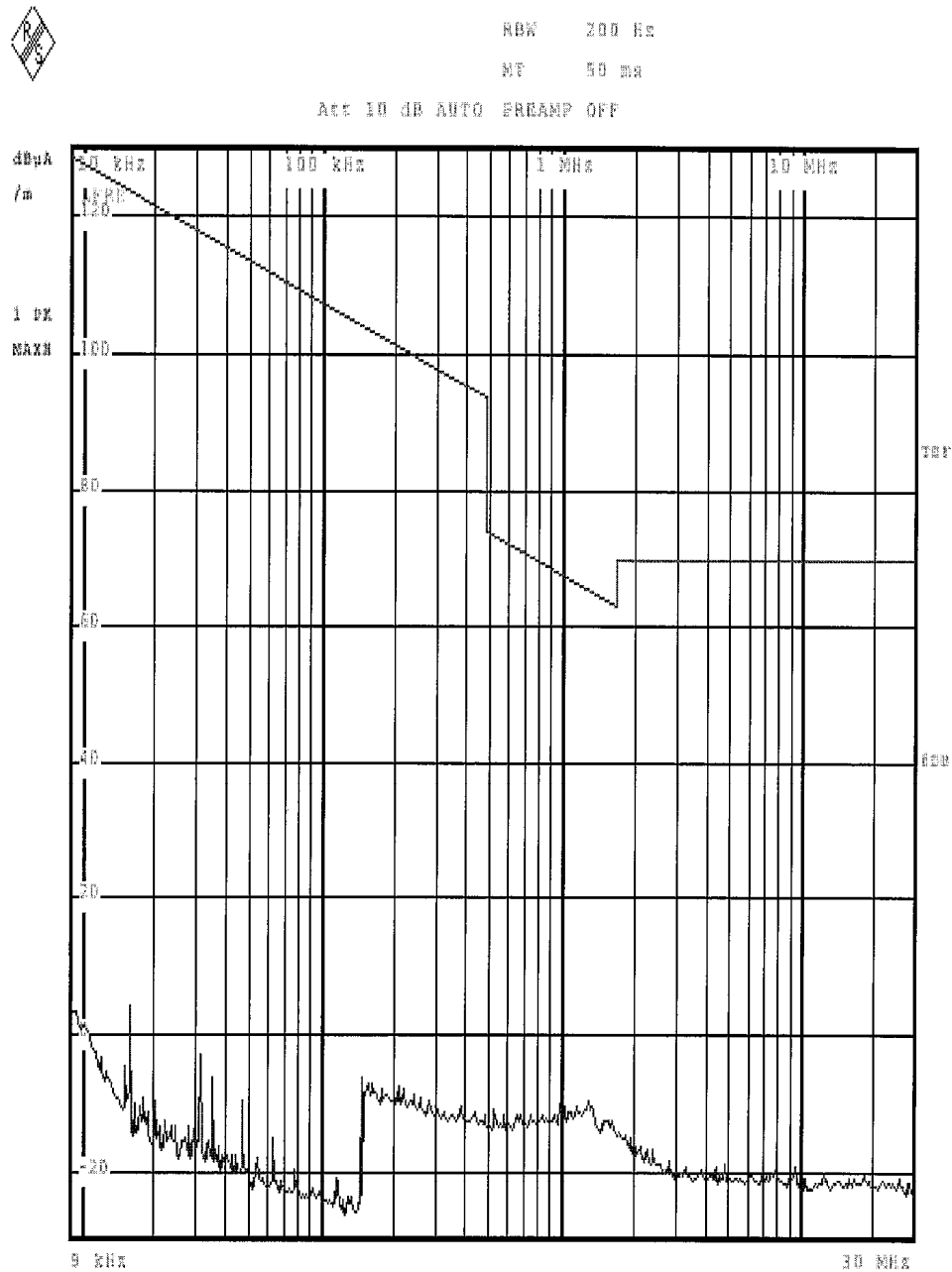
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25000.000	28.84	18.90	47.74	74.00	-26.26	peak			
2	25000.000	19.03	18.90	37.93	54.00	-16.07	AVG			

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



Date: 6.SEP.2012 09:31:24

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



Date: 6.SEP.2012 09:33:25

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #65

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

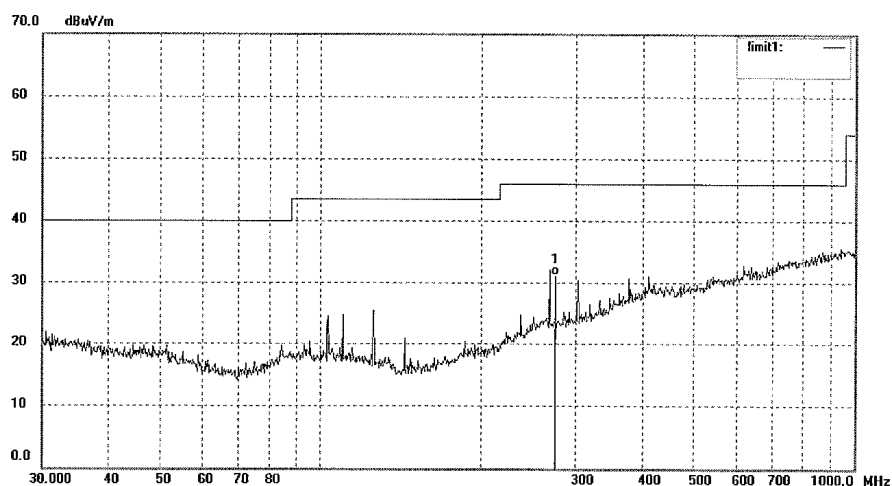
Date: 12/08/31/

Time: 9/43/04

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	271.9968	12.96	18.23	31.19	46.00	-14.81	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #66

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

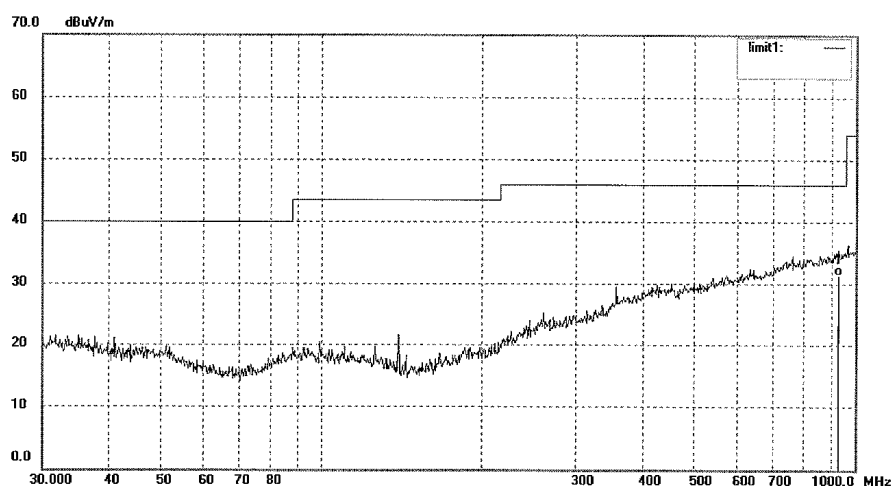
Date: 12/08/31/

Time: 9/52/10

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	932.1403	2.24	29.26	31.50	46.00	-14.50	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #35

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

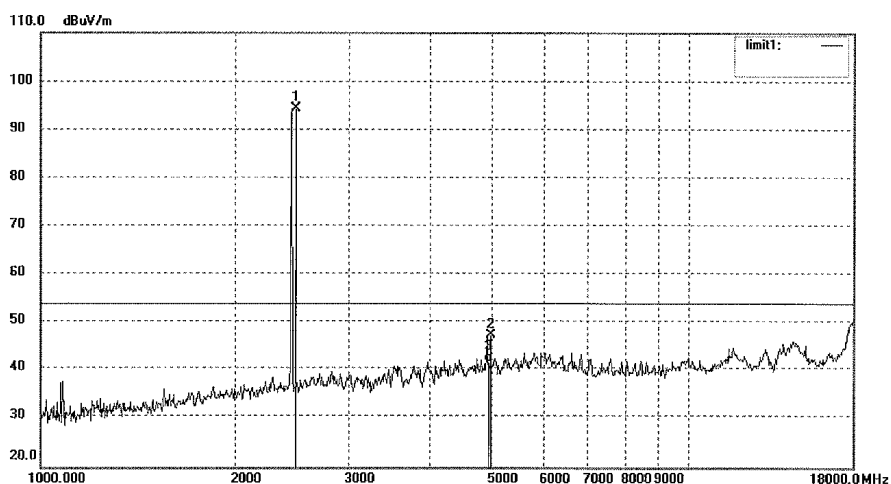
Date: 12/08/28/

Time: 9/25/32

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	2479.878	101.64	-7.37	94.27	/	/	peak			
2	4959.954	46.92	0.52	47.44	74.00	-26.56	peak			
3	4959.954	41.22	0.52	41.74	54.00	-12.26	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #36

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

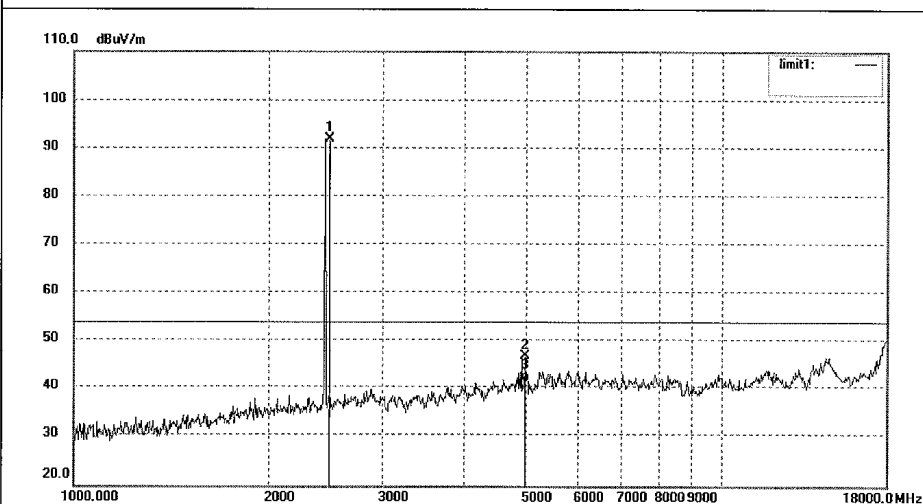
Date: 12/08/28/

Time: 9/36/09

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	2479.880	99.17	-7.37	91.80	/	/	peak			
2	4959.645	46.49	0.51	47.00	74.00	-27.00	peak			
3	4959.645	41.28	0.51	41.79	54.00	-12.21	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #143

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

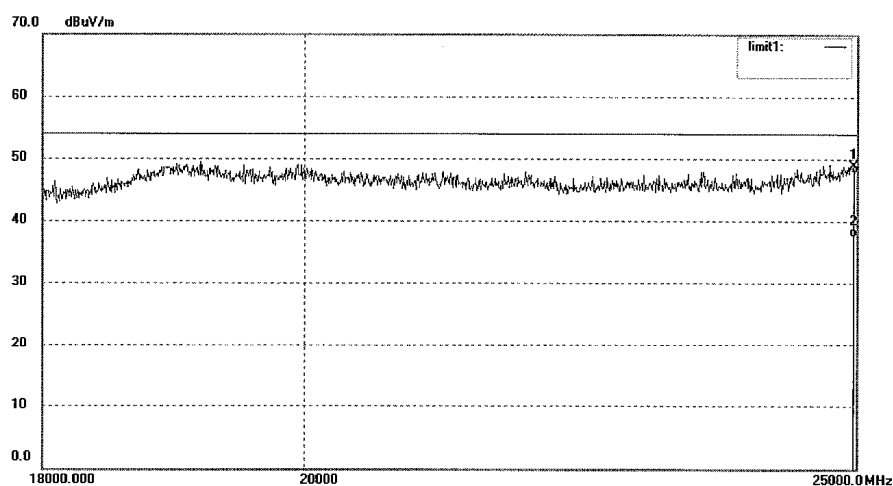
Date: 12/09/07/

Time: 16/47/59

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	24975.325	29.98	18.86	48.84	74.00	-25.16	peak			
2	24975.325	18.67	18.86	37.53	54.00	-16.47	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

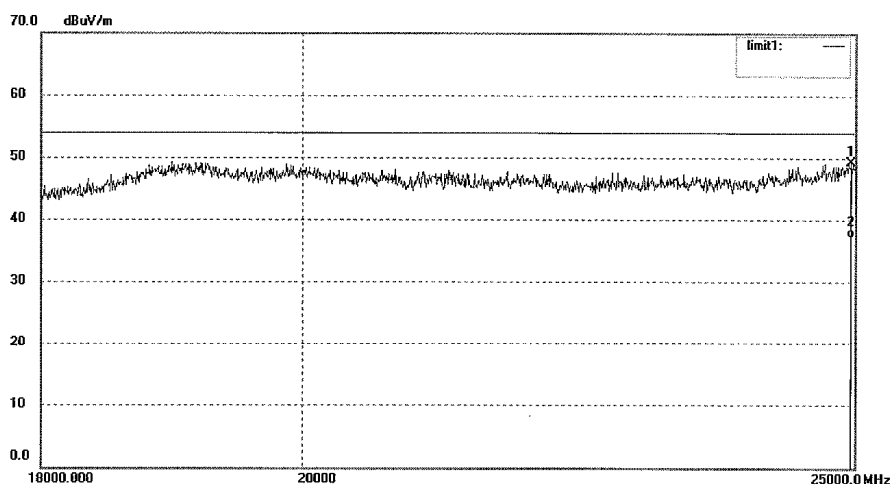
Site: 966 chamber

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

Job No.: PYH #142
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Bluetooth Keyboard
Mode: TX 2480MHz
Model: BBV
Manufacturer: Accesspro

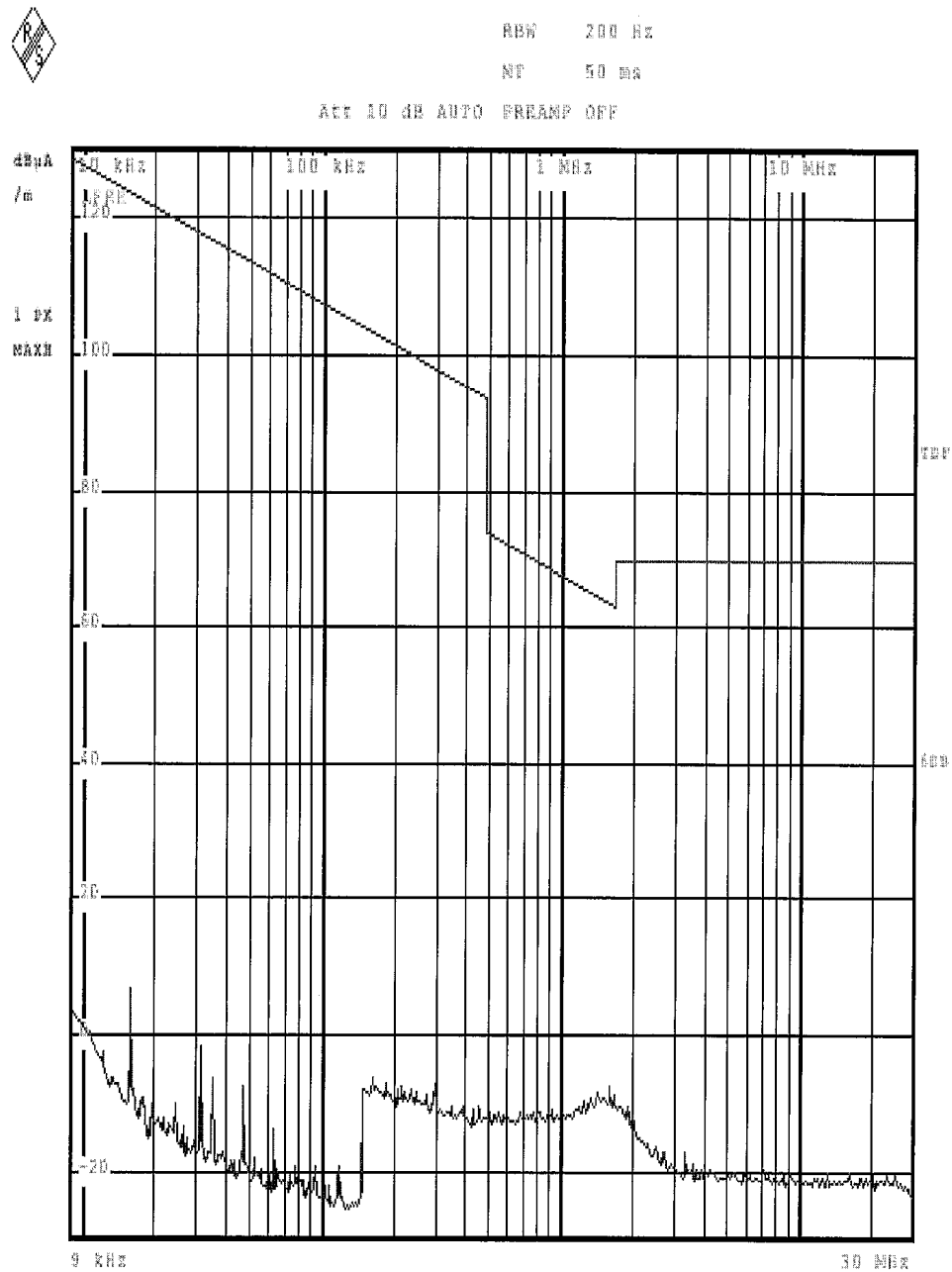
Polarization: Vertical
Power Source: DC 3V
Date: 12/09/07/
Time: 16/38/24
Engineer Signature: PEI
Distance: 3m

Note: EDR



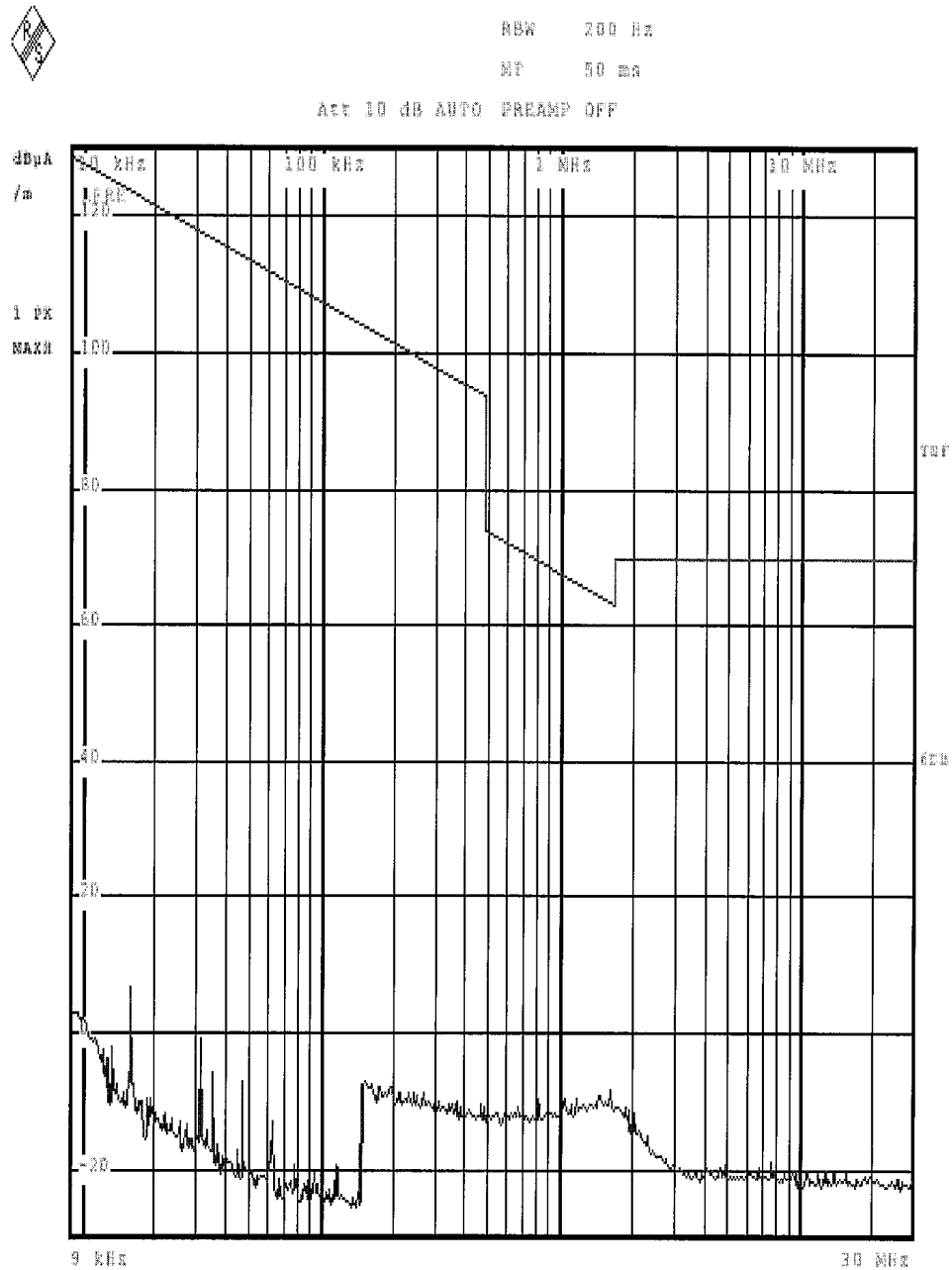
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24967.105	30.40	18.85	49.25	74.00	-24.75	peak			
2	24967.105	18.36	18.85	37.21	54.00	-16.79	AVG			

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



Date: 6.SEP.2012 08:43:30

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



Date: 6.SEP.2012 08:46:03

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #95

Standard: FCC Class B 3M Radiated

Test Item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: RX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

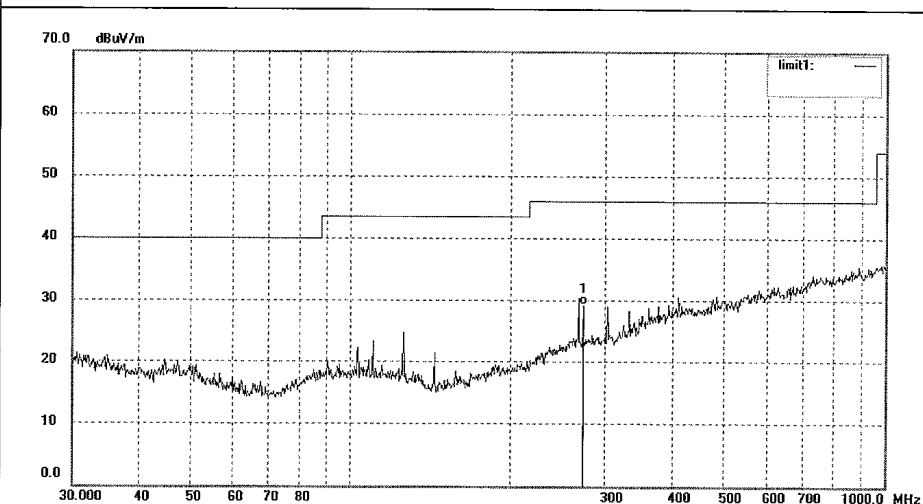
Date: 12/09/03/

Time: 11/12/42

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	271.9945	11.12	18.23	29.35	46.00	-16.65	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #93

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: RX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

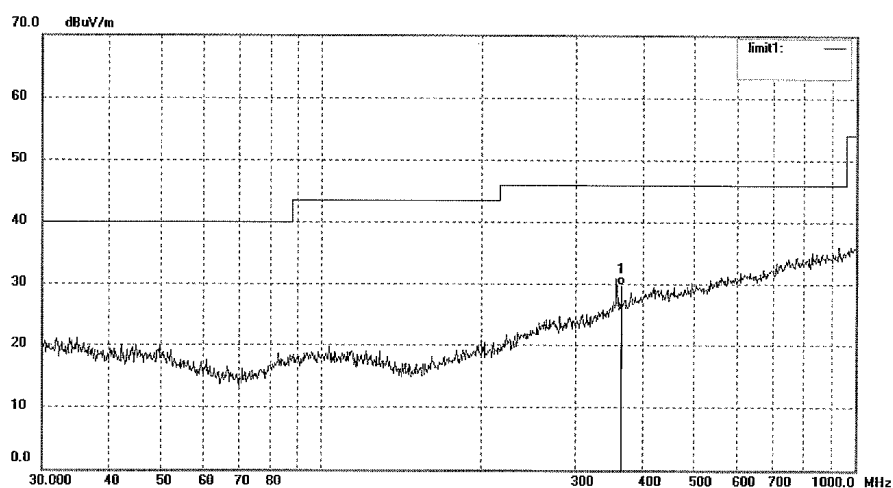
Date: 12/09/03/

Time: 11/04/30

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	362.0450	8.56	21.34	29.90	46.00	-16.10	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

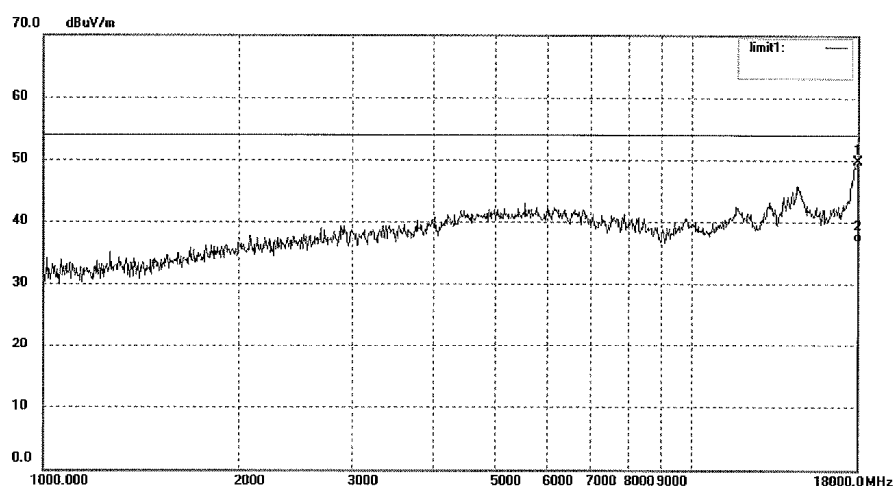
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #97
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Bluetooth Keyboard
Mode: RX 2402MHz
Model: BBV
Manufacturer: Accesspro

Polarization: Horizontal
Power Source: DC 3V
Date: 12/09/03/
Time: 11/31/56
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	18000.000	3.73	46.10	49.83	74.00	-24.17	peak			
2	18000.000	-9.25	46.10	36.85	54.00	-17.15	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #96

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: RX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

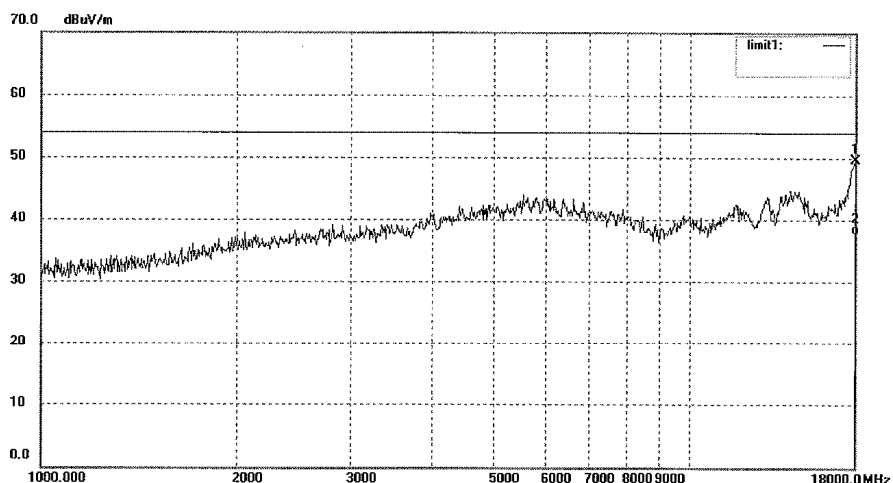
Date: 12/09/03/

Time: 11/23/49

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	18000.000	3.54	46.10	49.64	74.00	-24.36	peak			
2	18000.000	-8.36	46.10	37.74	54.00	-16.26	AVG			

**Figure 55: Test figure of spurious emissions, mode C, 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: 966 chamber

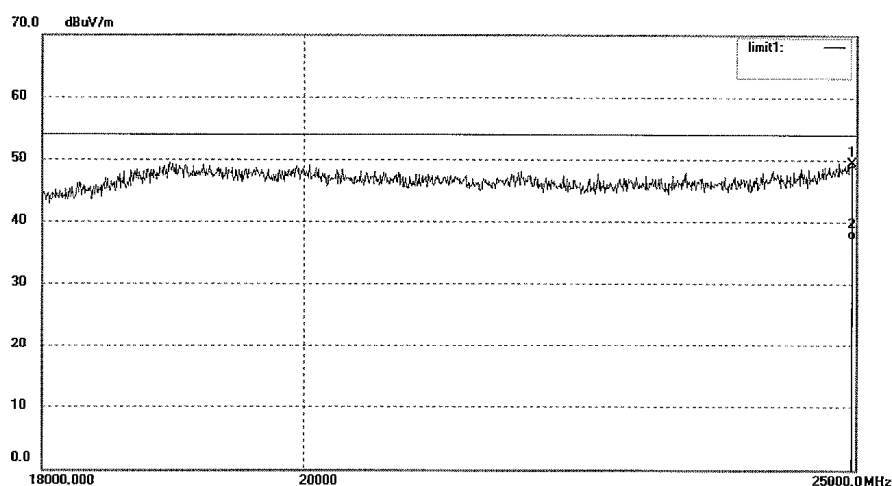
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #147
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Bluetooth Keyboard
Mode: RX 2402MHz
Model: BBV
Manufacturer: Accesspro

Polarization: Horizontal
Power Source: DC 3V
Date: 12/09/07/
Time: 17/32/45
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	24967.105	30.53	18.85	49.38	74.00	-24.62	peak			
2	24967.105	18.36	18.85	37.21	54.00	-16.79	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

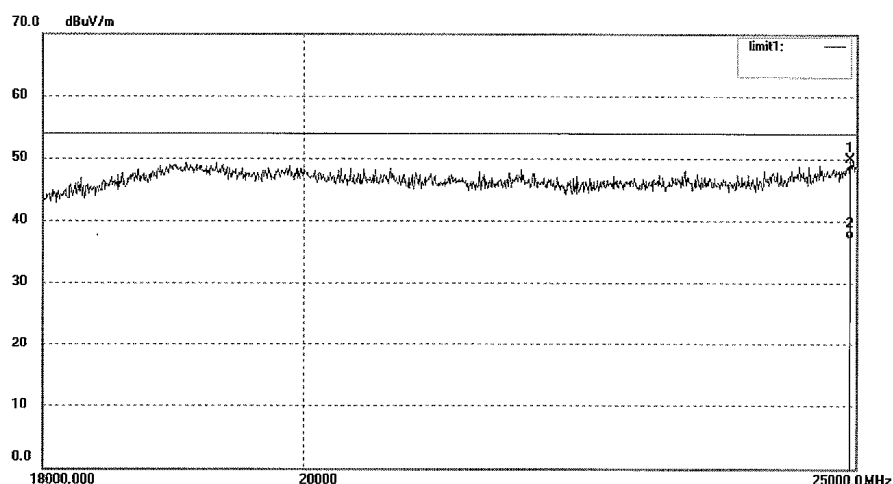
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

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

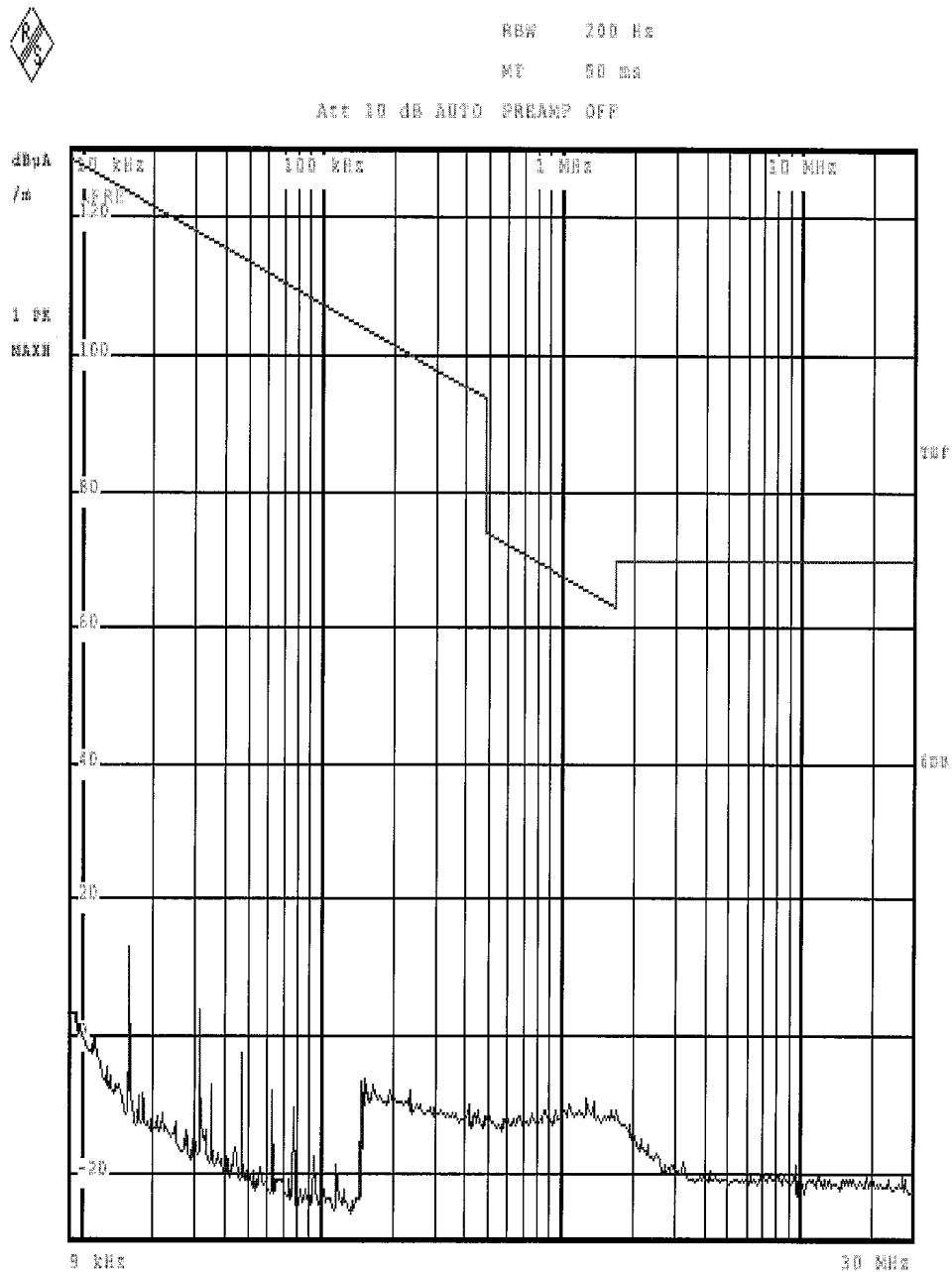
Job No.: PYH #146	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/09/07/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 17/22/57
EUT: Bluetooth Keyboard	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BBV	
Manufacturer: Accesspro	

Note: BDR



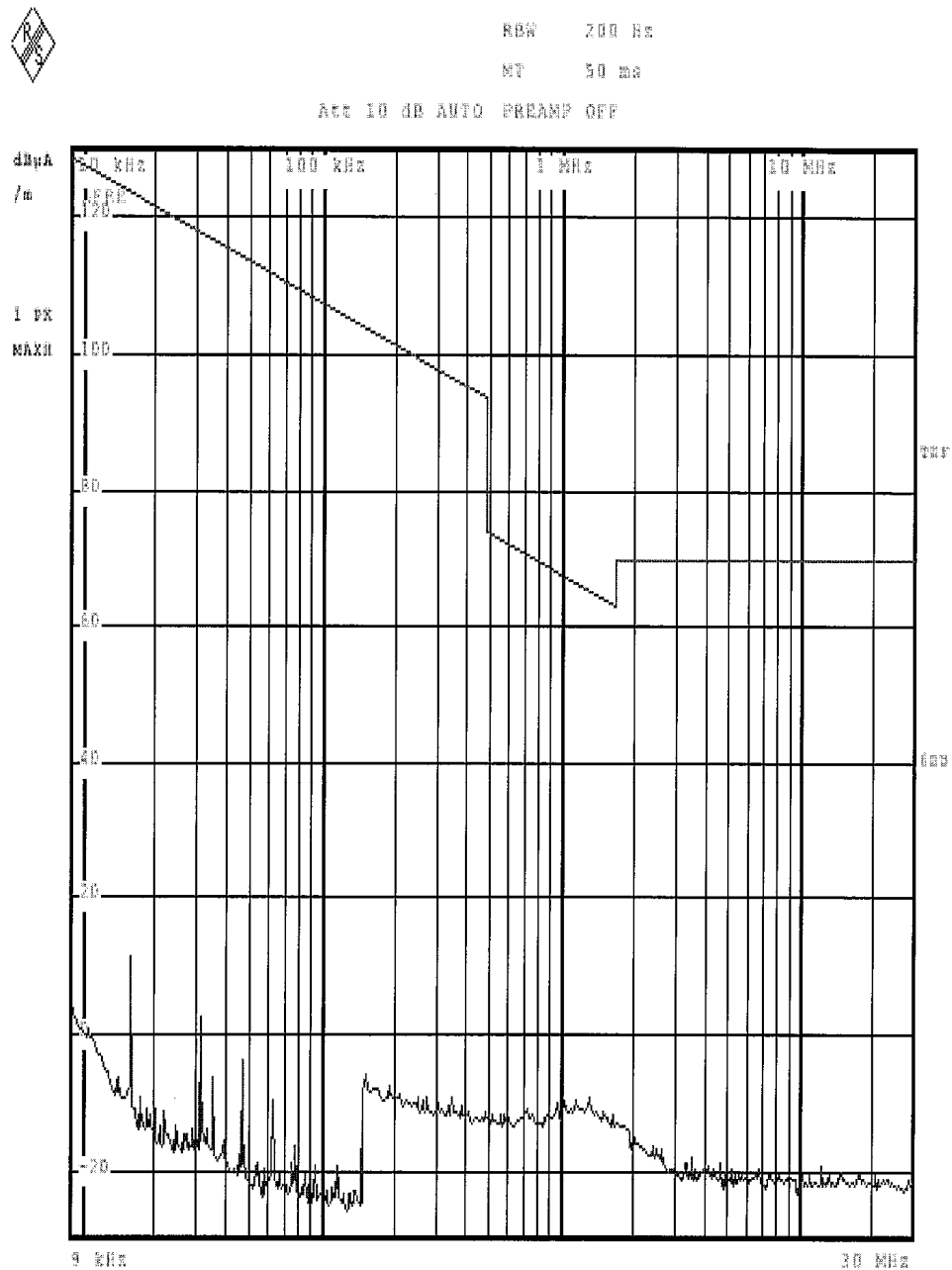
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24942.463	31.14	18.82	49.96	74.00	-24.04	peak			
2	24942.463	18.39	18.82	37.21	54.00	-16.79	AVG			

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



Date: 6.SEP.2012 08:50:37

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



Date: 6.SEP.2012 08:52:41

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #91

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: RX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

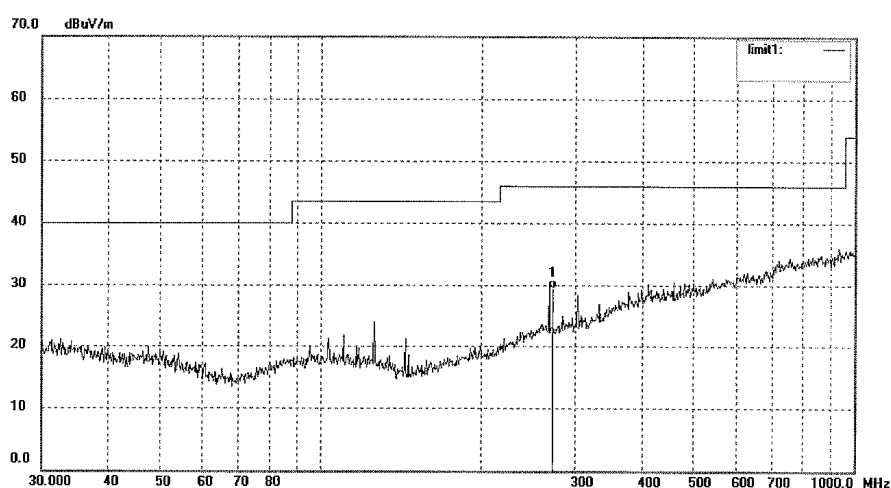
Date: 12/09/03/

Time: 10/47/31

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	271.9974	11.26	18.23	29.49	46.00	-16.51	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

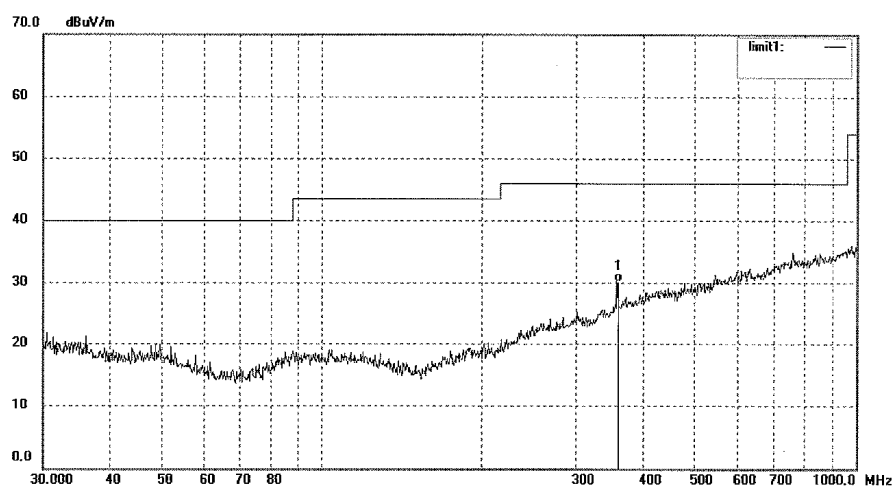
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #92
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Bluetooth Keyboard
Mode: RX 2402MHz
Model: BBV
Manufacturer: Accesspro

Polarization: Vertical
Power Source: DC 3V
Date: 12/09/03/
Time: 10/56/51
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	362.0515	8.83	21.34	30.17	46.00	-15.83	QP			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

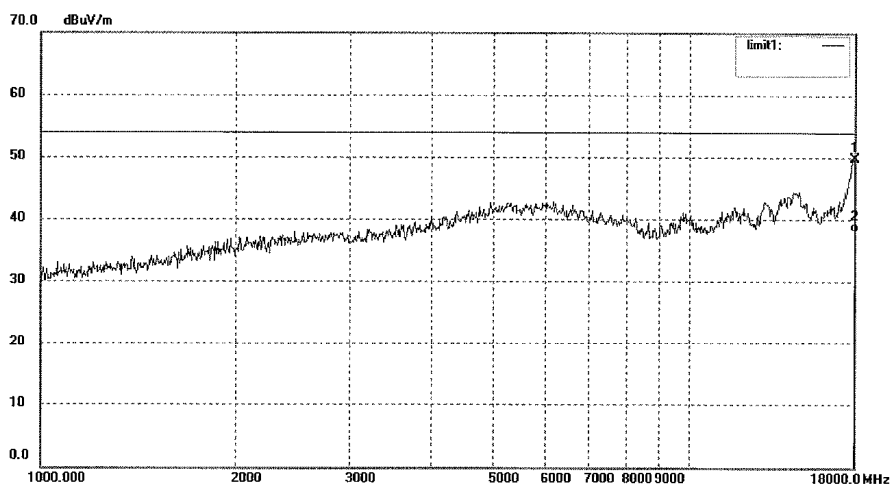
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #105
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Bluetooth Keyboard
Mode: RX 2402MHz
Model: BBV
Manufacturer: Accesspro

Polarization: Horizontal
Power Source: DC 3V
Date: 12/09/03/
Time: 12/43/33
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	18000.000	3.74	46.10	49.84	74.00	-24.16	peak			
2	18000.000	-8.03	46.10	38.07	54.00	-15.93	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #104

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: RX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

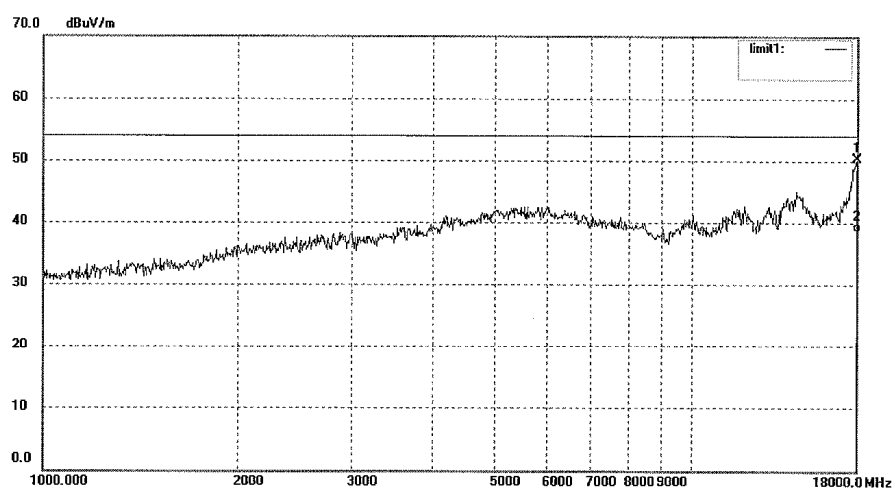
Date: 12/09/03/

Time: 12/34/50

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	18000.000	4.13	46.10	50.23	74.00	-23.77	peak			
2	18000.000	-7.52	46.10	38.58	54.00	-15.42	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #144

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: RX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

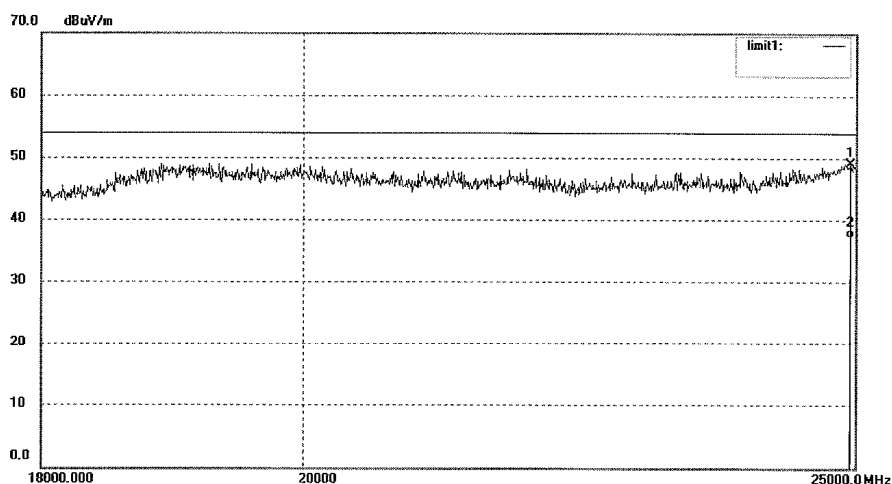
Date: 12/09/07/

Time: 16/59/31

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	24950.674	30.27	18.83	49.10	74.00	-24.90	peak			
2	24950.674	18.36	18.83	37.19	54.00	-16.81	AVG			

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



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

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

Job No.: PYH #145	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/09/07/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 17/08/49
EUT: Bluetooth Keyboard	Engineer Signature: PEI
Mode: RX 2402MHz	Distance: 3m
Model: BBV	
Manufacturer: Accesspro	
Note: EDR	

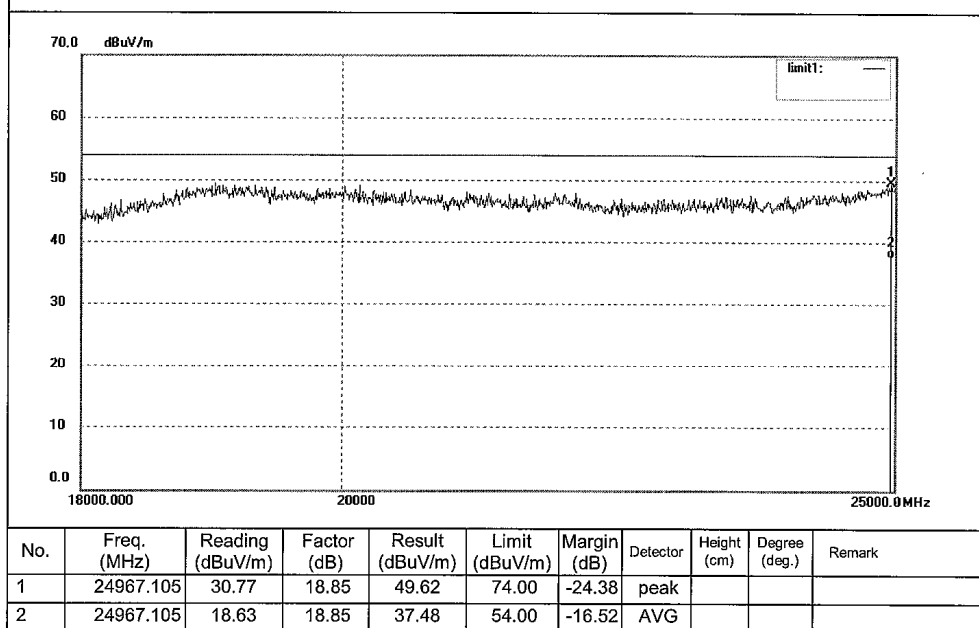


Figure 65: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, GFSK Modulation



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #20

Standard: FCC Part 15 Band Edge (2.4G)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

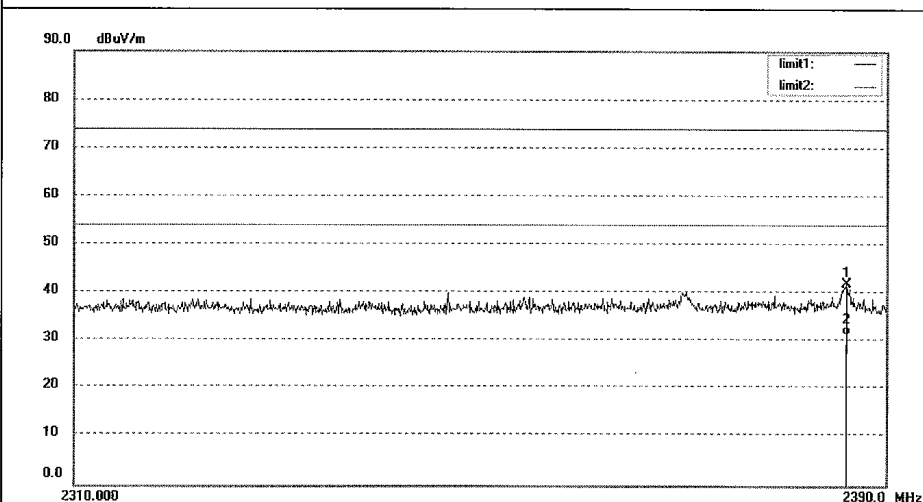
Date: 12/08/27/

Time: 9/16/17

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	2385.968	49.46	-7.56	41.90	74.00	-32.10	peak			
2	2385.968	38.96	-7.56	31.40	54.00	-22.60	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

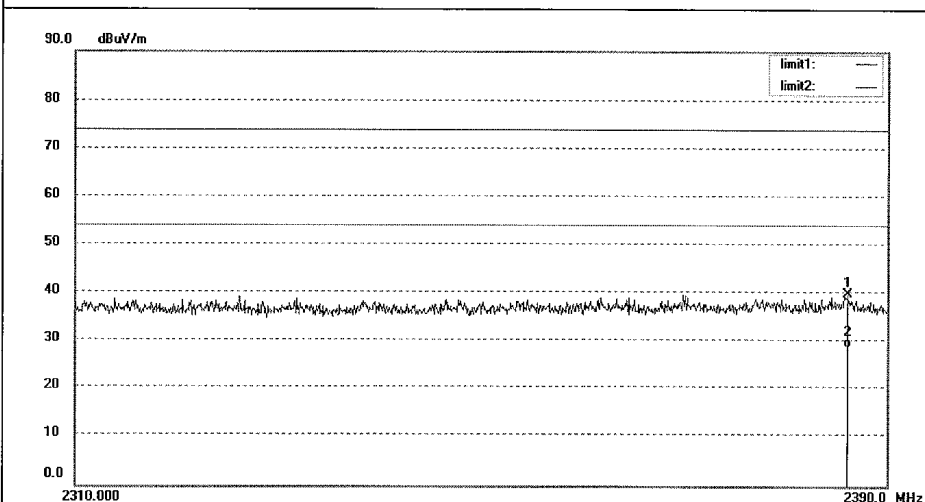
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #19	Polarization: Vertical
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3V
Test item: Radiation Test	Date: 12/08/27/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/05/08
EUT: Bluetooth Keyboard	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: BBV	
Manufacturer: Accesspro	

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	2385.949	47.44	-7.56	39.88	74.00	-34.12	peak			
2	2385.949	36.56	-7.56	29.00	54.00	-25.00	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #25

Standard: FCC Part 15 Band Edge (2.4G)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

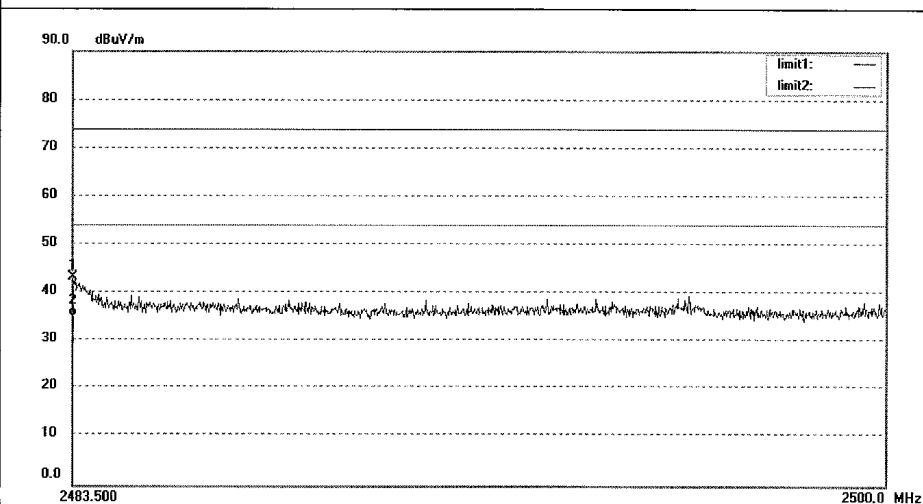
Date: 12/08/27/

Time: 10/19/38

Engineer Signature: PEI

Distance: 3m

Note: BDR



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	50.58	-7.37	43.21	74.00	-30.79	peak			
2	2483.500	42.67	-7.37	35.30	54.00	-18.70	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #26

Standard: FCC Part 15 Band Edge (2.4G)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

Date: 12/08/27/

Time: 10/31/21

Engineer Signature: PEI

Distance: 3m

Note: BDR

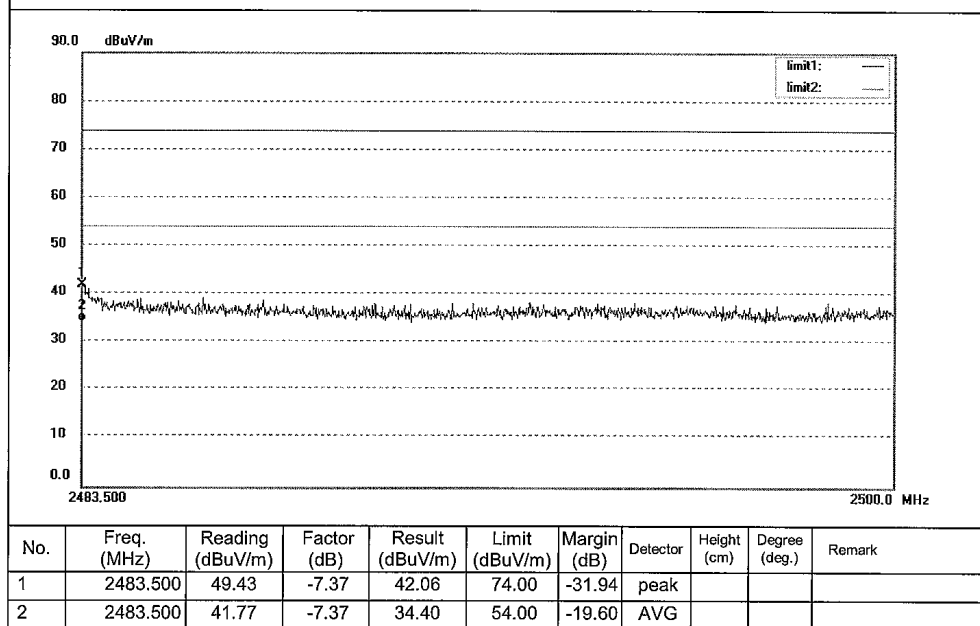


Figure 69: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, 8DPSK Modulation



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #31

Standard: FCC Part 15 Band Edge (2.4G)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

Date: 12/08/28/

Time: 8/47/42

Engineer Signature: PEI

Distance: 3m

Note: EDR

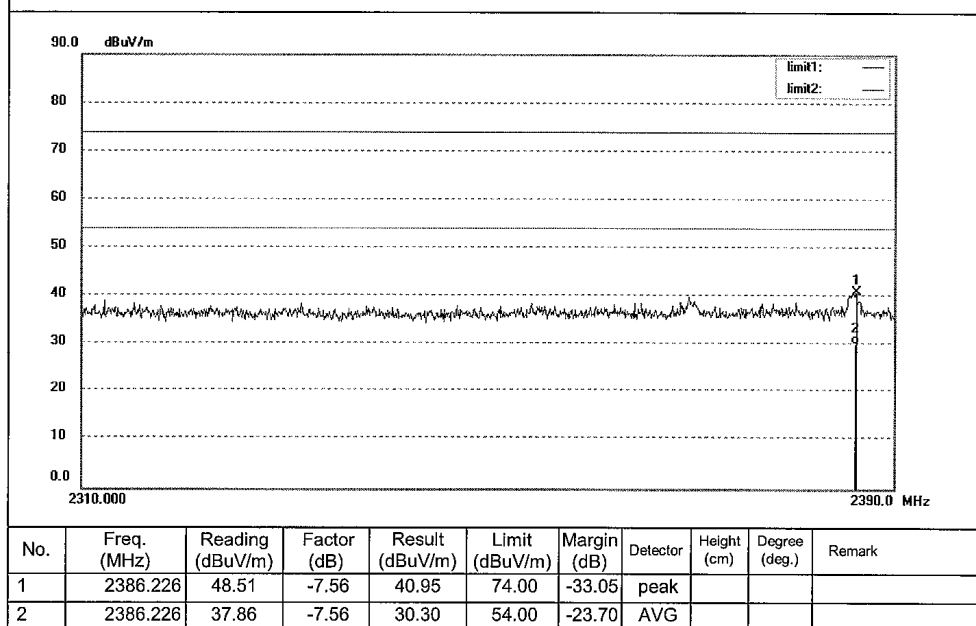


Figure 70: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, 8DP SK Modulation



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #32

Standard: FCC Part 15 Band Edge (2.4G)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2402MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

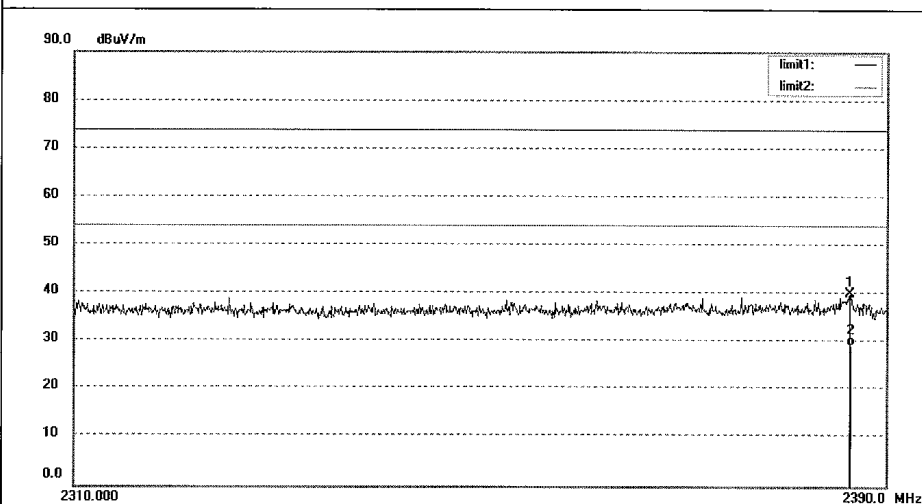
Date: 12/08/28/

Time: 8/56/18

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	2386.297	47.70	-7.55	40.15	74.00	-33.85	peak			
2	2386.297	37.00	-7.55	29.45	54.00	-24.55	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #34

Standard: FCC Part 15 Band Edge (2.4G)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Horizontal

Power Source: DC 3V

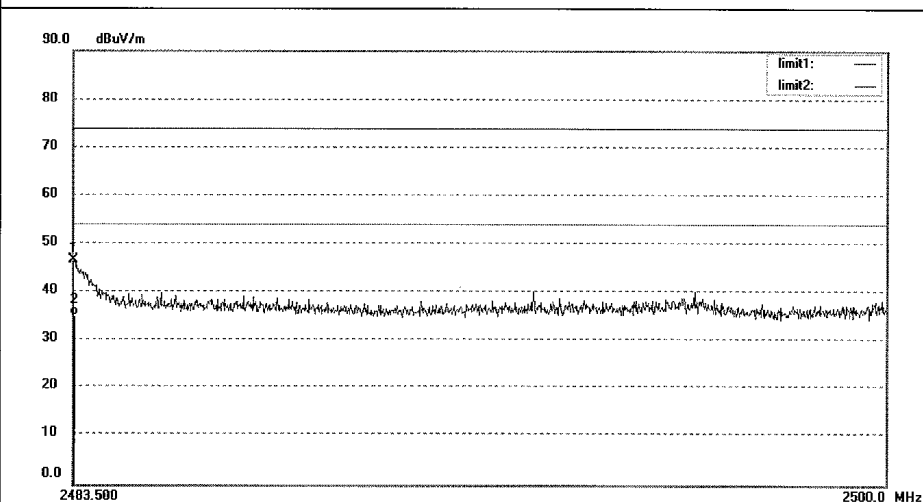
Date: 12/08/28/

Time: 9/14/33

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	2483.500	54.02	-7.37	46.65	74.00	-27.35	peak			
2	2483.500	42.67	-7.37	35.30	54.00	-18.70	AVG			

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



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #33

Standard: FCC Part 15 Band Edge (2.4G)

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Bluetooth Keyboard

Mode: TX 2480MHz

Model: BBV

Manufacturer: Accesspro

Polarization: Vertical

Power Source: DC 3V

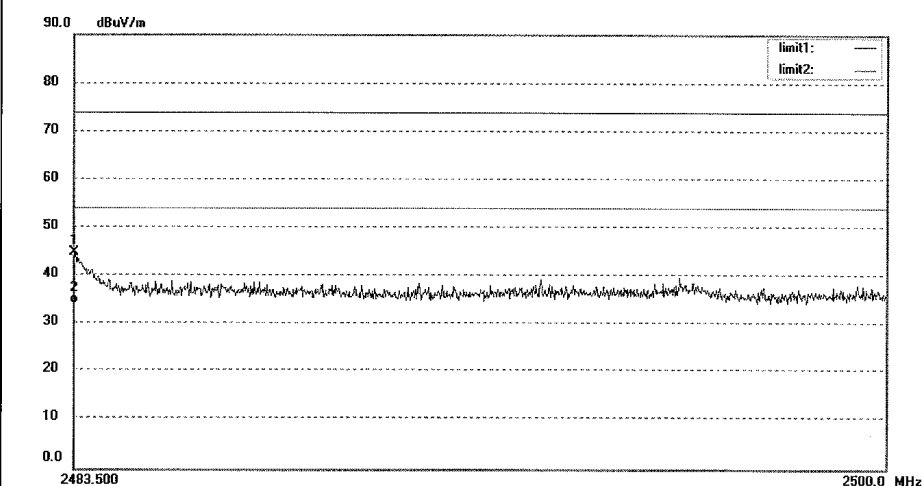
Date: 12/08/28/

Time: 9/05/04

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	2483.500	52.20	-7.37	44.83	74.00	-29.17	peak			
2	2483.500	41.67	-7.37	34.30	54.00	-19.70	AVG			