
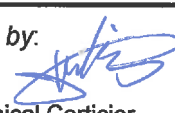


<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>17050207 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>164031505</b>	<b>Seite 1 von 54</b> <i>Page 1 of 54</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	<b>N/A</b>	<b>Auftragsdatum:</b> <i>Order date:</i>	<b>13.05.2015</b>	
<b>Auftraggeber:</b> <i>Client:</i>	<b>Accent Advanced Systems SLU, Bergueda 43 Local 18 Castellar del Valles 08211 Spain</b>			
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>Bluetooth Low Energy Advertising Device</b>			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	<b>iBKS105</b>			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	<b>FCC Certification</b>			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	<b>CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 v05r02</b>			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	<b>22.05.2015</b>			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	<b>1500919, 1500920, 1500921</b>			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	<b>24.05.2015 - 30.05.2015</b>			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	<b>Accurate Technology Co., Ltd.</b>			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	<b>TÜV Rheinland (Shenzhen) Co., Ltd.</b>			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>			
<b>geprüft von / tested by:</b>  07.07.2015 Owen Tian/Senior Project Manager <b>Datum</b> <b>Name / Stellung</b> <b>Unterschrift</b> <i>Date</i> <i>Name / Position</i> <i>Signature</i>		<b>kontrolliert von / reviewed by:</b>  07.07.2015 Sam Lin/Technical Certifier <b>Datum</b> <b>Name / Stellung</b> <b>Unterschrift</b> <i>Date</i> <i>Name / Position</i> <i>Signature</i>		
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged</i>		
<p>* Legende:    1 = sehr gut      2 = gut      3 = befriedigend      4 = ausreichend      5 = mangelhaft  P(ass) = entspricht o.g. Prüfgrundlage(n)    F(ail) = entspricht nicht o.g. Prüfgrundlage(n)    N/A = nicht anwendbar    N/T = nicht getestet</p> <p>Legend:    1 = very good      2 = good      3 = satisfactory      4 = sufficient      5 = poor  P(ass) = passed a.m. test specification(s)    F(ail) = failed a.m. test specification(s)    N/A = not applicable    N/T = not tested</p>				
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

V04

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Test Report No.**Seite 2 von 54**  
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## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT***RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Pass***5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH***RESULT: Pass***5.1.5 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.6 SPURIOUS EMISSION***RESULT: Pass***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

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## 1. General Remarks

### 1.1 Complementary Materials

None.

## 2. Test Sites

### 2.1 Test Facilities

Accurate Technology Co., Ltd.

**(FCC Registration No.: 752051)**

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

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

## 2.2 List of Test and Measurement Instruments

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

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
<b>Transmitter spurious emissions &amp; Receiver spurious emissions</b>				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Test Receiver	Rohde & Schwarz	ESCS30	100307	2016-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2016-01-14
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2016-01-14
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2016-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2016-01-09
50 Coaxial Switch	Anritsu Corp	MP59B	620050647 4	2016-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2016-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2016-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2016-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2016-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2016-01-09
<b>Radio Spectrum Test</b>				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2016-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2016-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2016-01-09

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, 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

**Table 2: Measurement Uncertainty**

Parameter	Uncertainty
Radio Spectrum	$< \pm 0.60 \text{ dB}$
Radiated emission of transmitter, valid up to 26.5 GHz	$< \pm 4.42 \text{ dB}$
Conducted Emission	$< \pm 2.23 \text{ dB}$
Radiated Emission	$< \pm 4.42 \text{ dB}$

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

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

## 3. General Product Information

### 3.1 Product Function and Intended Use

The EUT is a Bluetooth Low Energy Advertising Device.  
 For details refer to the User Manual and Circuit Diagram.

### 3.2 Ratings and System Details

**Table 3: Technical Specification**

Technical Specification	Value
Kind of Equipment	Bluetooth Low Energy Advertising Device
Type Designation	iBKS105
FCC ID	2ABTTIBKS105
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	-25~+75°C
Operation Voltage	DC 1.8 – 3.6V (via built in battery)
Modulation	GFSK
Bluetooth version	4.0, Single Mode
Antenna Gain	5.3dBi

**Table 4: RF channel and frequency of Bluetooth LE mode**

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth LE mode
  - 1. Transmitting
    - a. Low channel
    - b. Middle channel
    - c. High channel
  - 2. Receiving
- B. Standby
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

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



## **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

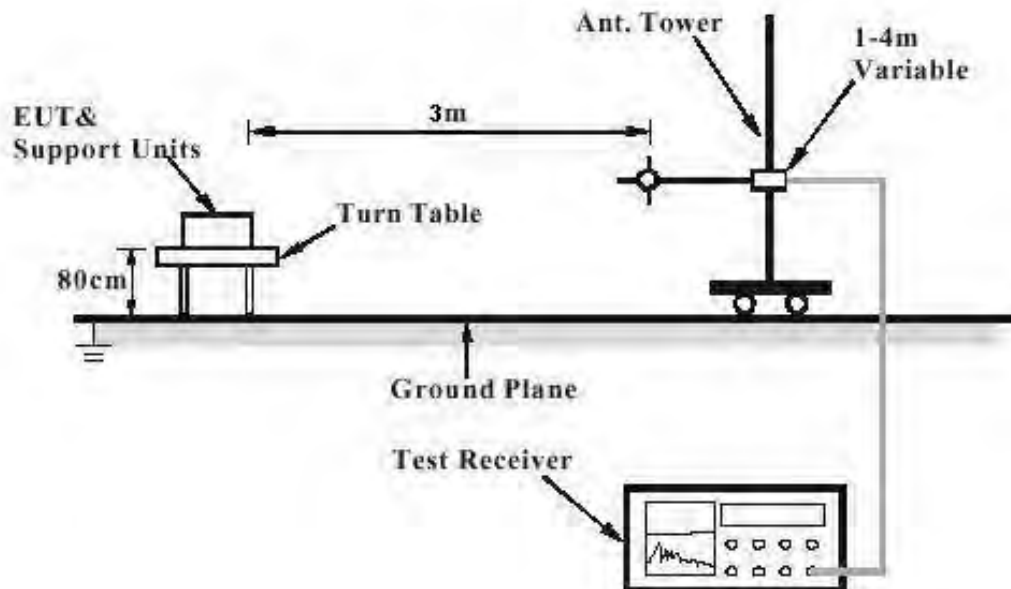
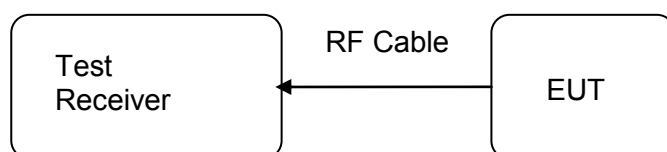


Diagram of Measurement Equipment Configuration for Transmitter Measurement



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Pass**

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

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 5.3dBi, 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.

### 5.1.2 Peak Output Power

**RESULT:****Pass**

Test date : 2015-05-24  
Test standard : FCC Part 15.247(b)(3)  
Basic standard : ANSI C63.4: 2003  
Clause 9.1 of KDB 558074 v03r01  
Limit : 1W  
Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
Operation Mode : A.1  
Ambient temperature : 24°C  
Relative humidity : 48%  
Atmospheric pressure : 101kPa

**Table 5: Test result of Peak Output Power**

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	-1.95	30
Middle Channel	2440	-1.09	30
High Channel	2480	-0.69	30

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**5.1.3 6dB Bandwidth and 99% Bandwidth****RESULT:****Pass**

Date of testing : 2015-05-24  
Test standard : FCC Part 15.247(a)(2)  
Basic standard : ANSI C63.4: 2003  
Clause 8 of KDB 558074 v03r01  
Kind of test site : Shielded room

**Test setup**

Test Channel : Low/ Middle/ High  
Operation Mode : A.1  
Ambient temperature : 24°C  
Relative humidity : 48%  
Atmospheric pressure : 101kPa

**Table 6: Test result of 6dB & 99% Bandwidth**

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.686	1.051
Mid Channel	2440	0.690	1.046
High Channel	2480	0.686	1.051

**Prüfbericht - Nr.: 17050207 001**  
Test Report No.**Seite 14 von 54**  
Page 14 of 54**5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth****RESULT:****Pass**

Date of testing	:	2015-05-24
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);
Kind of test site	:	Shield room

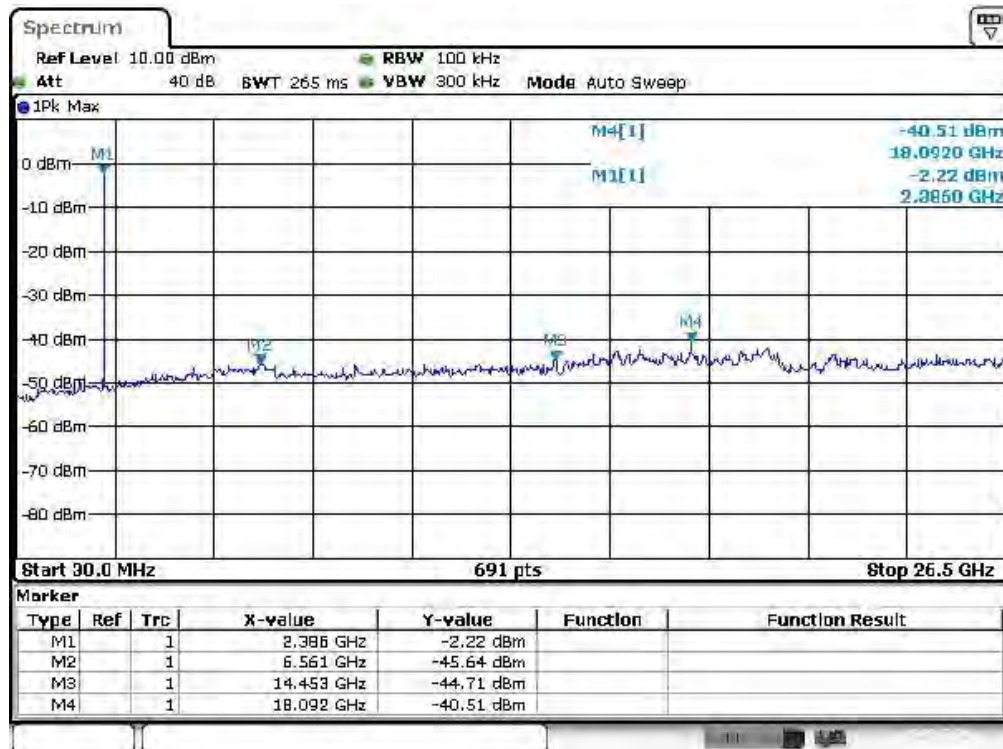
**Test setup**

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	24°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

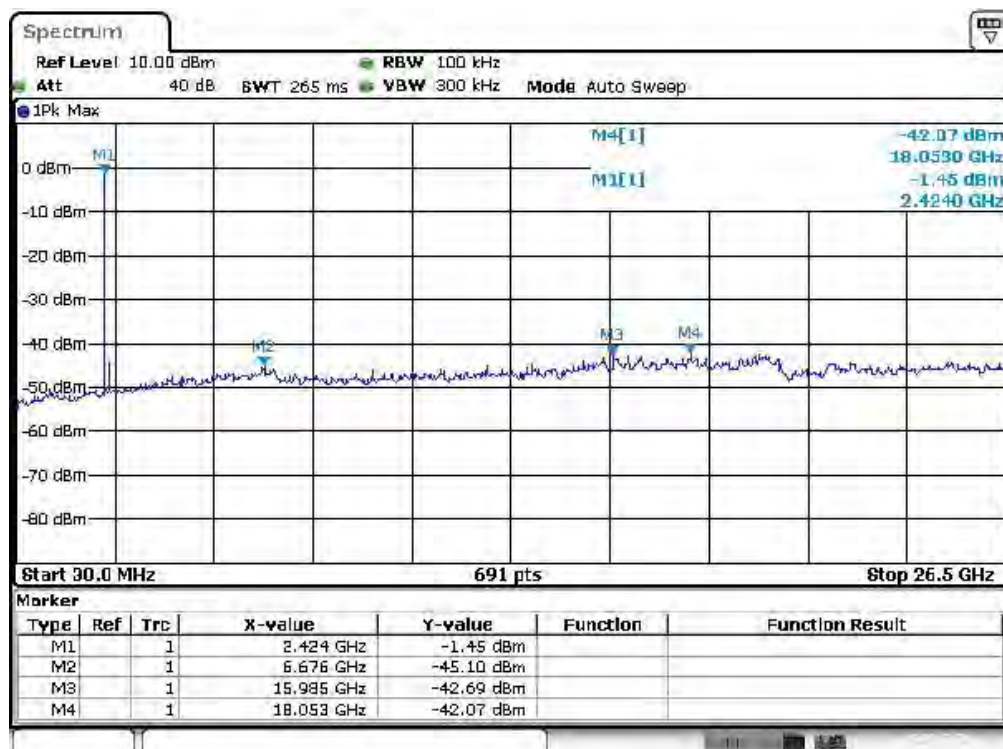
For details refer to following test plot.

## Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth

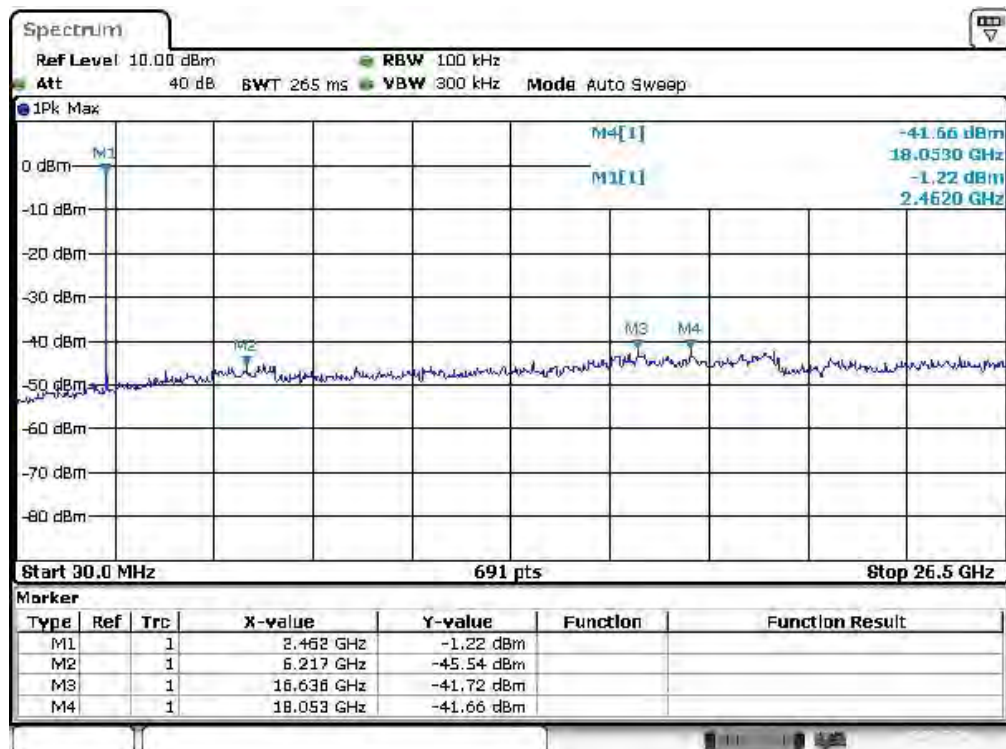
### Low Channel



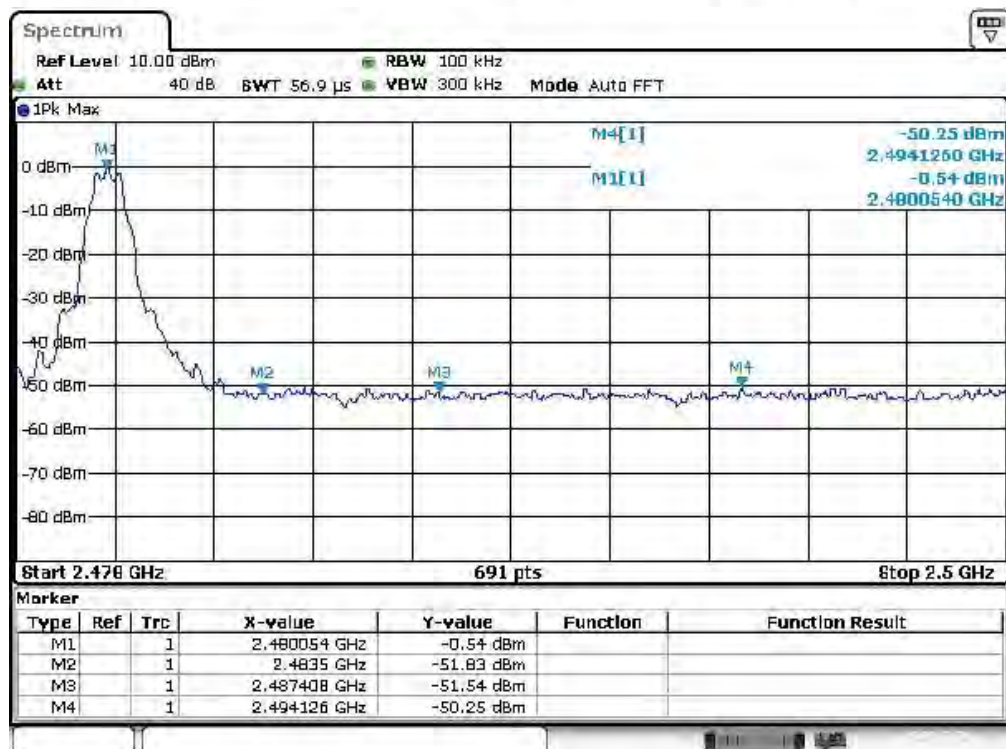
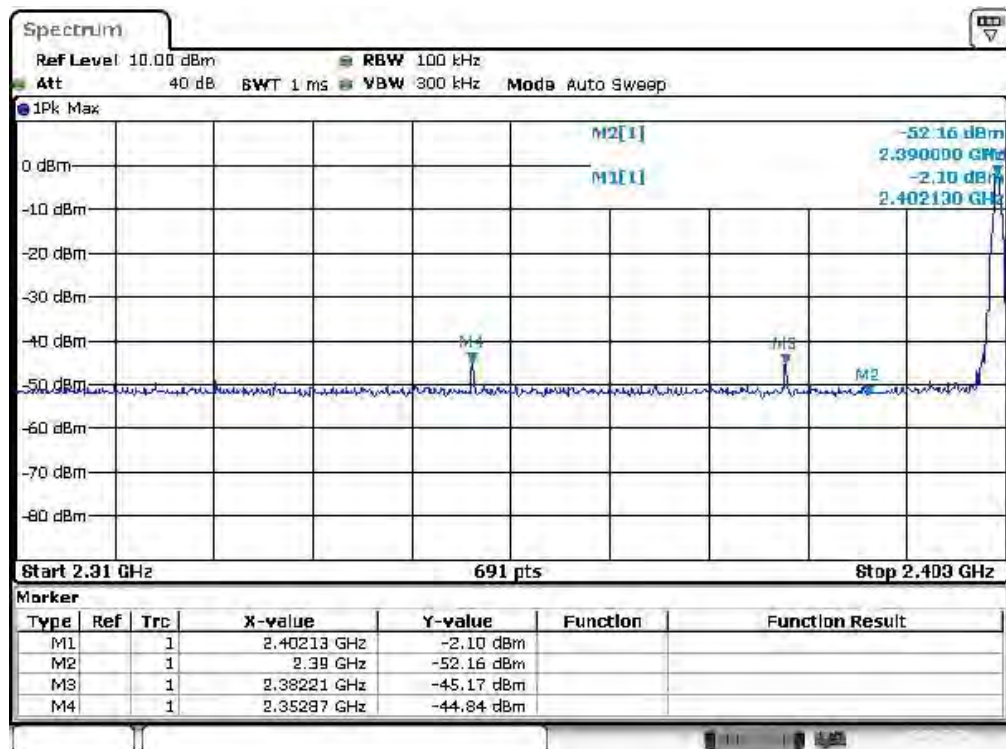
### Middle Channel



## High Channel





**Band Edge**


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### 5.1.5 Power spectral density

**RESULT:****Pass**

Date of testing : 2015-05-24  
Test standard : FCC part 15.247(e)  
Basic standard : ANSI C63.4: 2003  
Clause 10 of KDB 558074 v03r01  
Limit : 8dBm/3kHz  
Kind of test site : Shield room

**Test setup**

Test Channel : Low/ Middle/ High  
Operation mode : A.1  
Ambient temperature : 24°C  
Relative humidity : 48%  
Atmospheric pressure : 101kPa

**Table 7: Test result of power spectral density:**

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-16.99	8	Pass
	2440	-14.41	8	Pass
	2480	-14.06	8	Pass

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Test Report No.

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### 5.1.6 Spurious Emission

**RESULT:****Pass**

Date of testing : 2015-05-30  
Test standard : FCC part 15.247(d)  
Basic standard : ANSI C63.4: 2003  
Clause 11 of KDB 558074 v03r01  
Limits : FCC part 15.209(a)  
Kind of test site : 3m Semi-Anechoic Chamber

**Test setup**

Test Channel : Low/ Middle/ High  
Operation mode : A.1  
Ambient temperature : 23°C  
Relative humidity : 48%  
Atmospheric pressure : 101kPa

For details refer to following test plot.

## Test Plot of Spurious Emission of transmitting

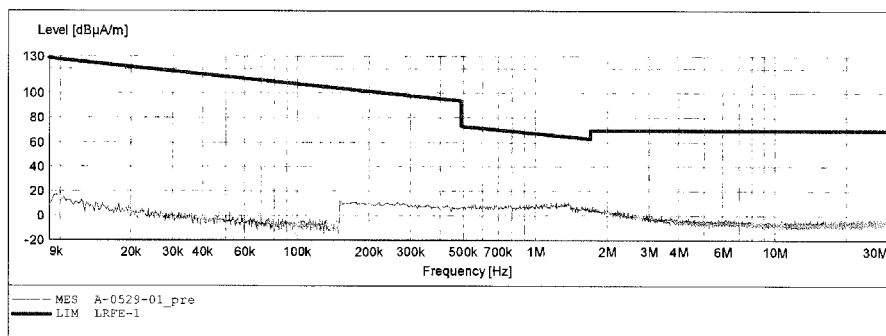
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3M Radiated**

EUT: Bluetooth Low Energy Advertising Device M/N:iBKS105  
 Manufacturer: Accent Advanced Systems SLU  
 Operating Condition: TX 2402MHz  
 Test Site: 2# Chamber  
 Operator: LAN  
 Test Specification: DC 3V  
 Comment: X  
 Start of Test: 2015-5-29 /

**SCAN TABLE: "LFRE Fin"**

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

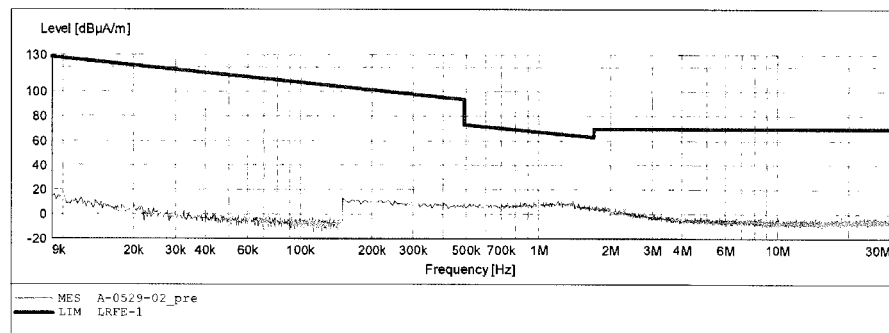


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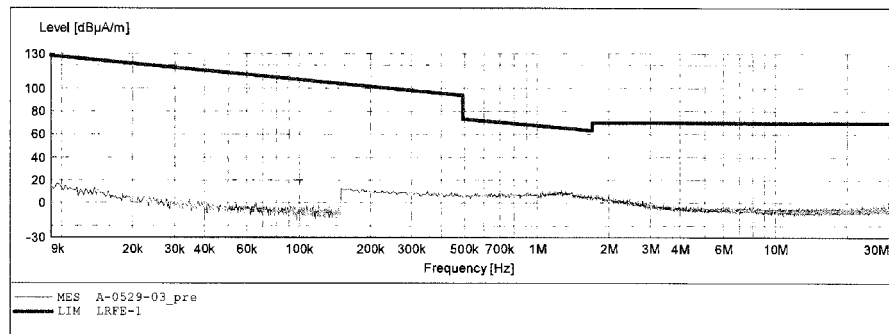


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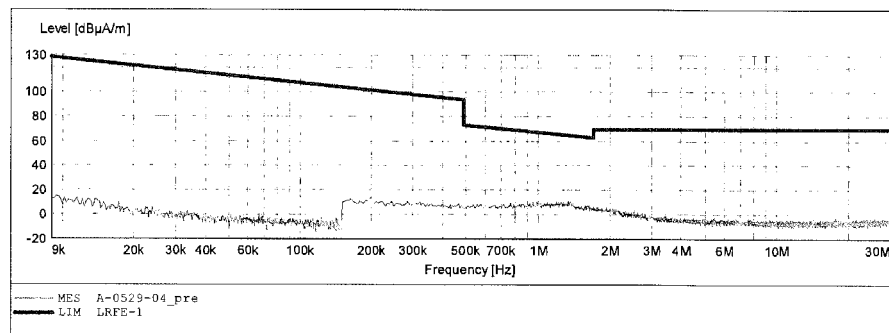
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3M Radiated**

EUT: Bluetooth Low Energy Advertising Device M/N:iBKS105  
 Manufacturer: Accent Advanced Systems SLU  
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 Operator: LAN  
 Test Specification: DC 3V  
 Comment: X  
 Start of Test: 2015-5-29 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

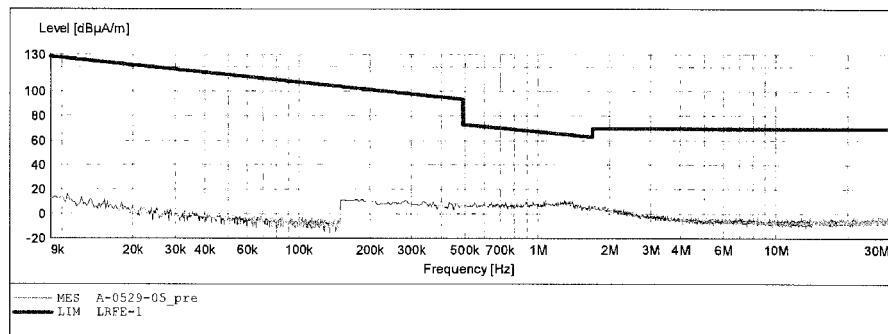


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 Comment: Y  
 Start of Test: 2015-5-29 /

**SCAN TABLE: "LFRE Fin"**

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





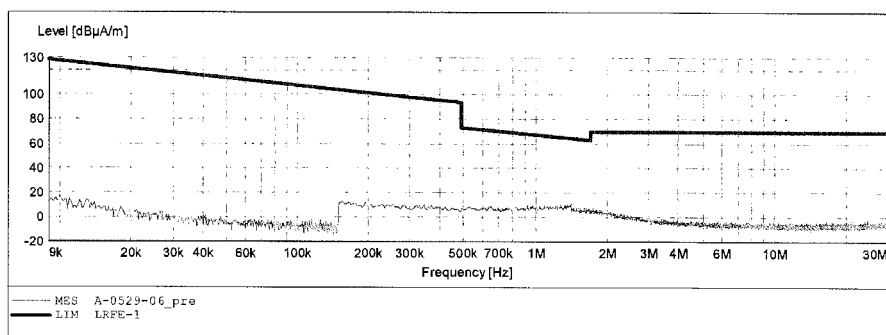
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3M Radiated**

EUT: Bluetooth Low Energy Advertising Device M/N:iBKS105  
 Manufacturer: Accent Advanced Systems SLU  
 Operating Condition: TX 2440MHz  
 Test Site: 2# Chamber  
 Operator: LAN  
 Test Specification: DC 3V  
 Comment: Z  
 Start of Test: 2015-5-29 /

**SCAN TABLE: "LFRE Fin"**

Short Description:				SUB STD VTERM2 1.70		
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



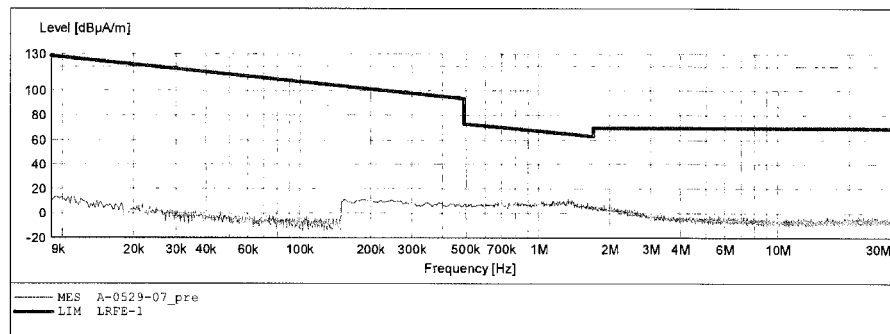
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3M Radiated**

EUT: Bluetooth Low Energy Advertising Device M/N:iBKS105  
 Manufacturer: Accent Advanced Systems SLU  
 Operating Condition: TX 2480MHz  
 Test Site: 2# Chamber  
 Operator: LAN  
 Test Specification: DC 3V  
 Comment: X  
 Start of Test: 2015-5-29 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

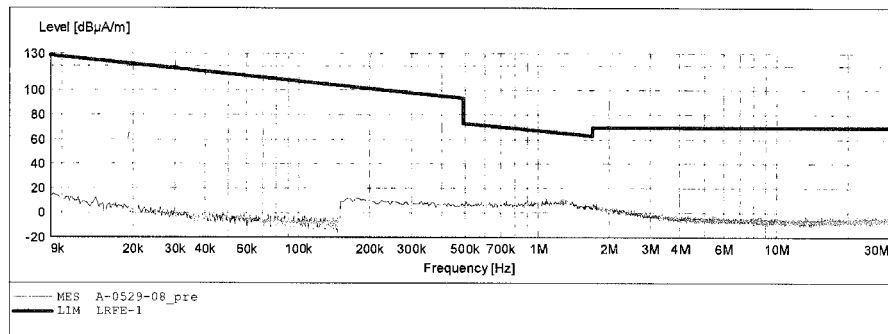


**ACCURATE TECHNOLOGY CO.,LTD**
**FCC Class B 3M Radiated**

EUT: Bluetooth Low Energy Advertising Device M/N:iBKS105  
 Manufacturer: Accent Advanced Systems SLU  
 Operating Condition: TX 2480MHz  
 Test Site: 2# Chamber  
 Operator: LAN  
 Test Specification: DC 3V  
 Comment: Y  
 Start of Test: 2015-5-29 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

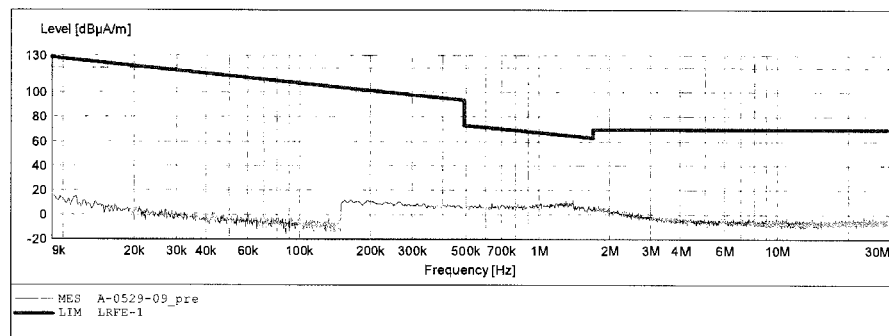


**ACCURATE TECHNOLOGY CO.,LTD**
**FCC Class B 3M Radiated**

EUT: Bluetooth Low Energy Advertising Device M/N:iBKS105  
 Manufacturer: Accent Advanced Systems SLU  
 Operating Condition: TX 2480MHz  
 Test Site: 2# Chamber  
 Operator: LAN  
 Test Specification: DC 3V  
 Comment: Z  
 Start of Test: 2015-5-29 /

**SCAN TABLE: "LFRE Fin"**

Short Description:			_SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M




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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #793

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

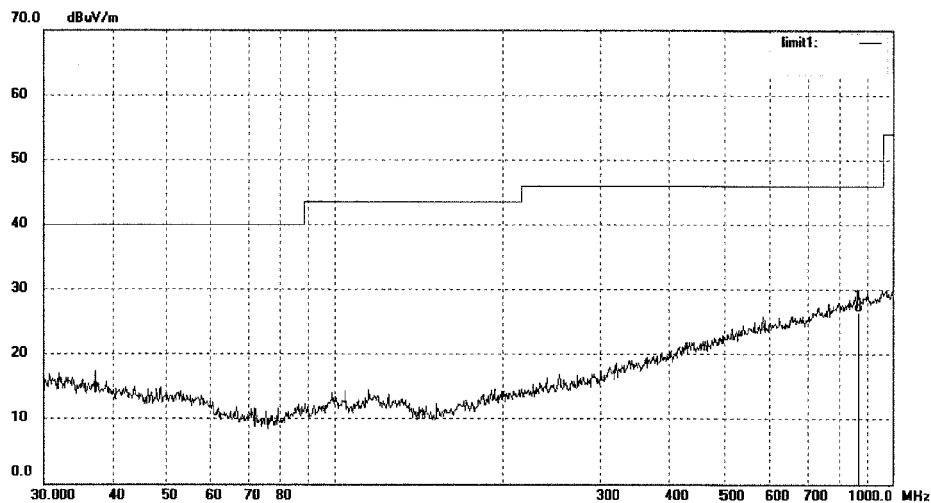
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	866.0878	25.47	1.03	26.50	46.00	-19.50	QP			


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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #794

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

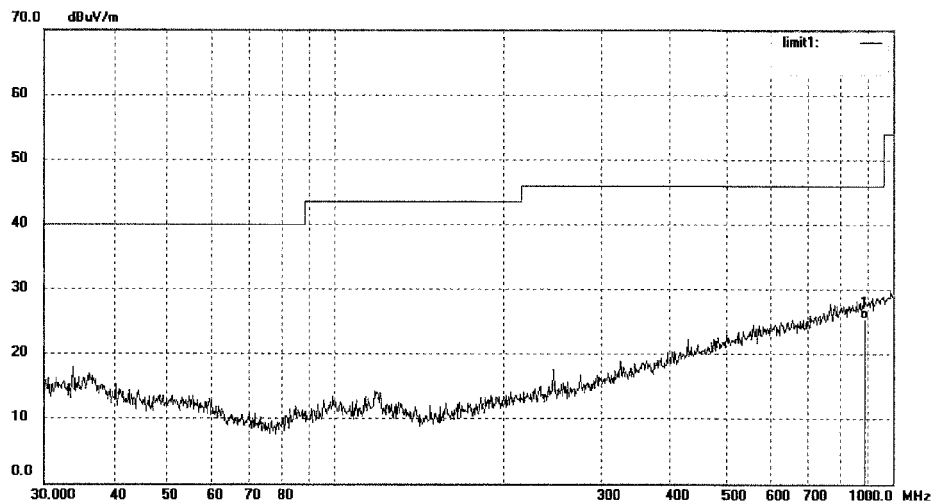
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	887.6099	24.25	1.24	25.49	46.00	-20.51	QP			

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*Test Report No.*
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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #796

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

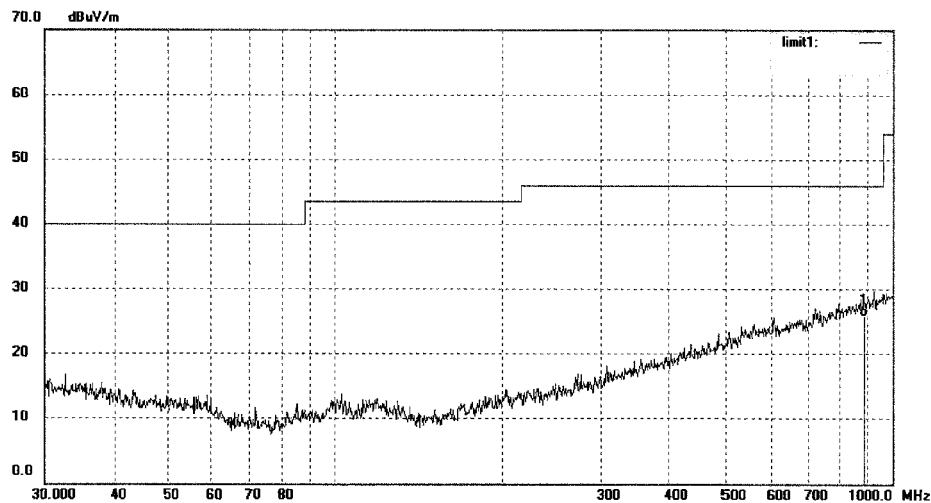
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	887.6099	24.52	1.24	25.76	46.00	-20.24	QP			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #795

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

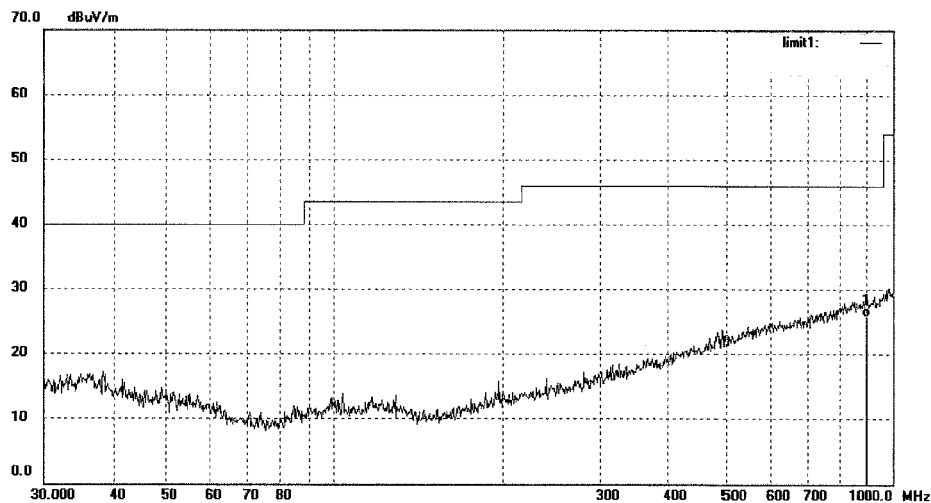
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	896.9964	24.54	1.27	25.81	46.00	-20.19	QP			




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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #797

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

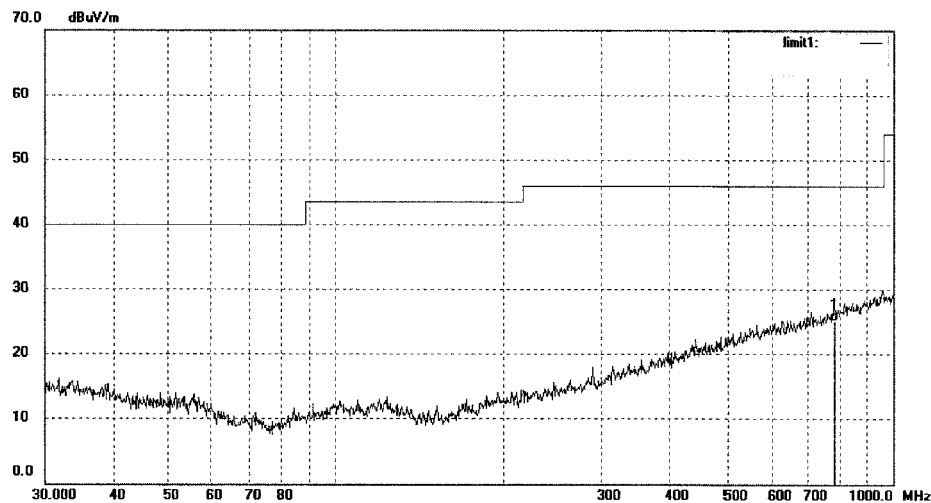
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	782.3452	25.40	-0.37	25.03	46.00	-20.97	QP			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #798

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

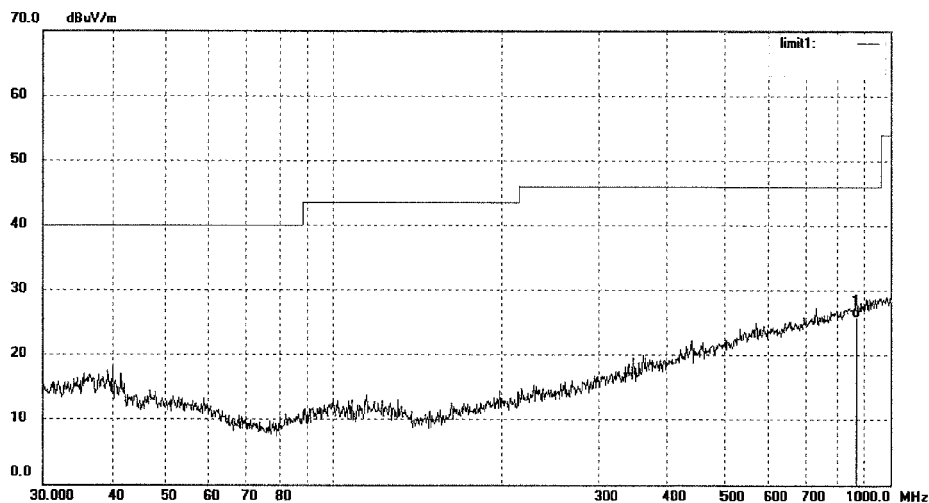
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	866.0878	24.77	1.03	25.80	46.00	-20.20	QP			


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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #784

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

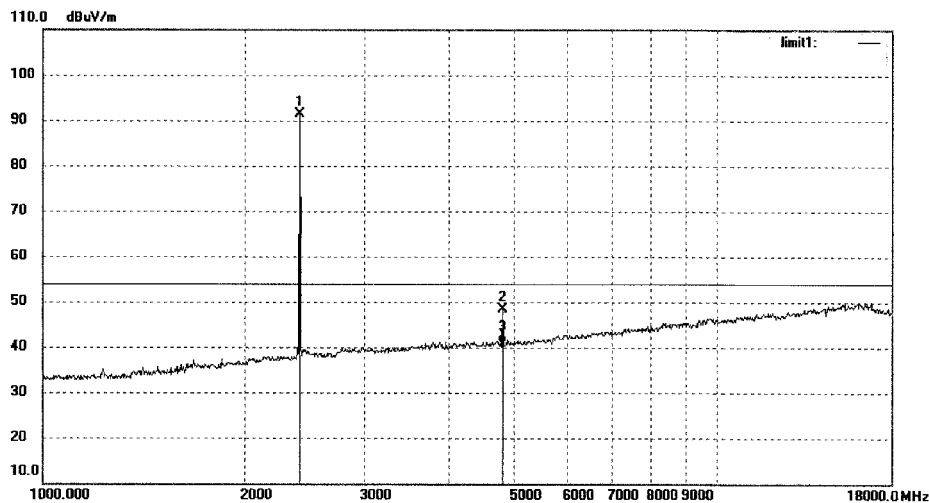
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	98.89	-7.45	91.44	/	/	peak			
2	4804.023	48.63	-0.30	48.33	74.00	-25.67	peak			
3	4804.023	41.22	-0.30	40.92	54.00	-13.08	AVG			


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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #783

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

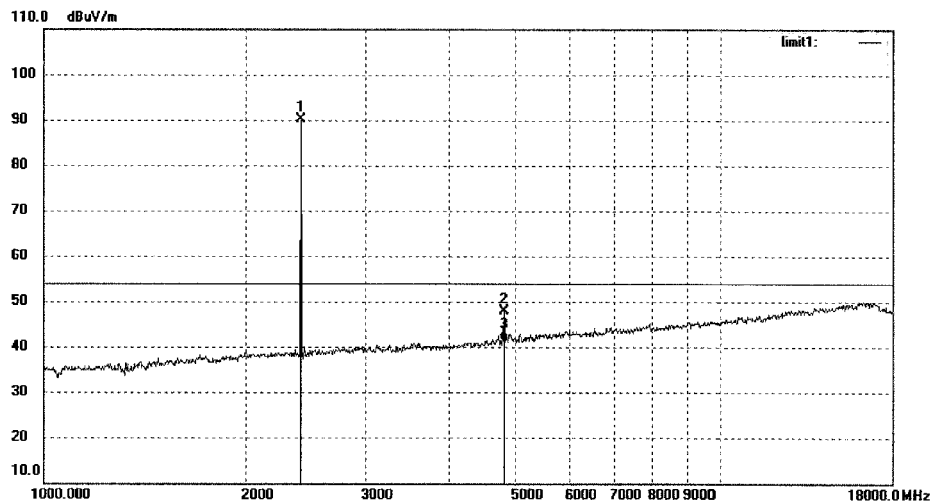
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	97.60	-7.45	90.15	/	/	peak			
2	4804.011	48.20	-0.30	47.90	74.00	-56.10	peak			
3	4804.011	41.75	-0.30	41.45	54.00	-12.55	AVG			


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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #788

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

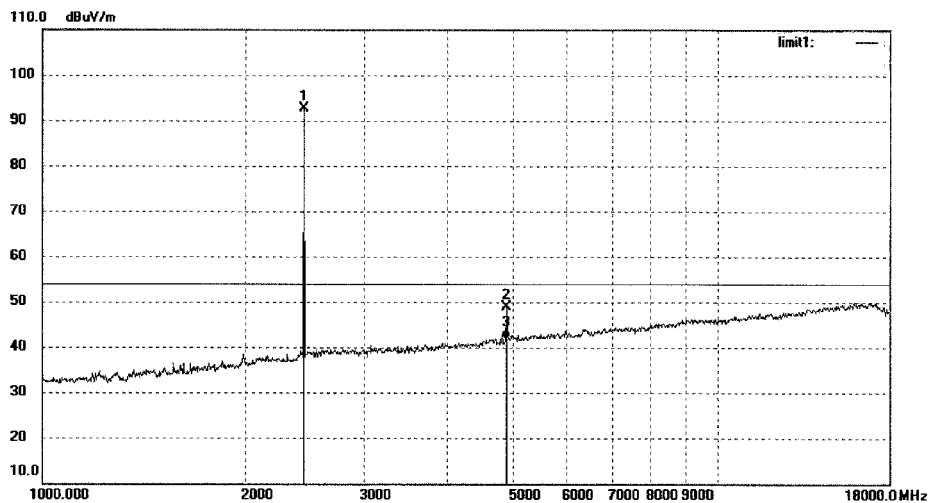
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	99.94	-7.36	92.58	/	/	peak			
2	4880.016	48.64	0.13	48.77	74.00	-25.23	peak			
3	4880.016	41.78	0.13	41.91	54.00	-12.09	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #787

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

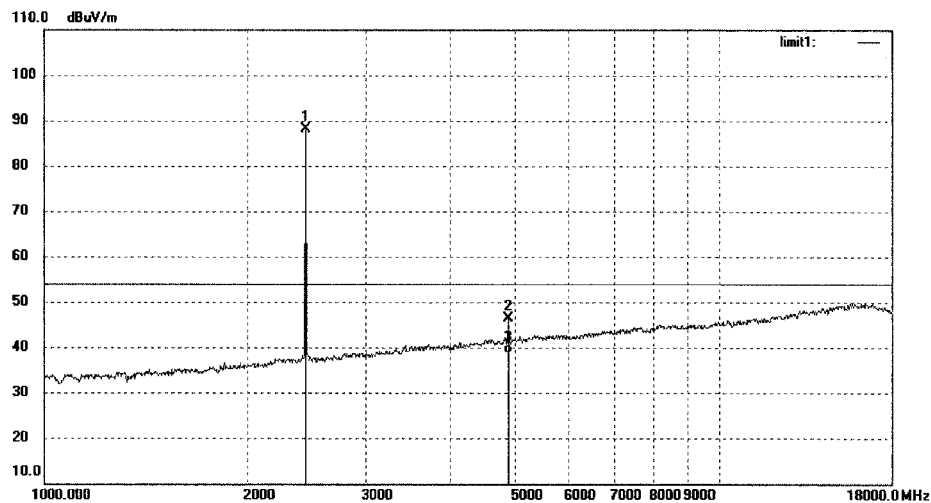
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	95.49	-7.36	88.13	/	/	peak			
2	4880.015	46.32	0.13	46.45	74.00	-27.55	peak			
3	4880.015	38.49	0.13	38.62	54.00	-15.38	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #790

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

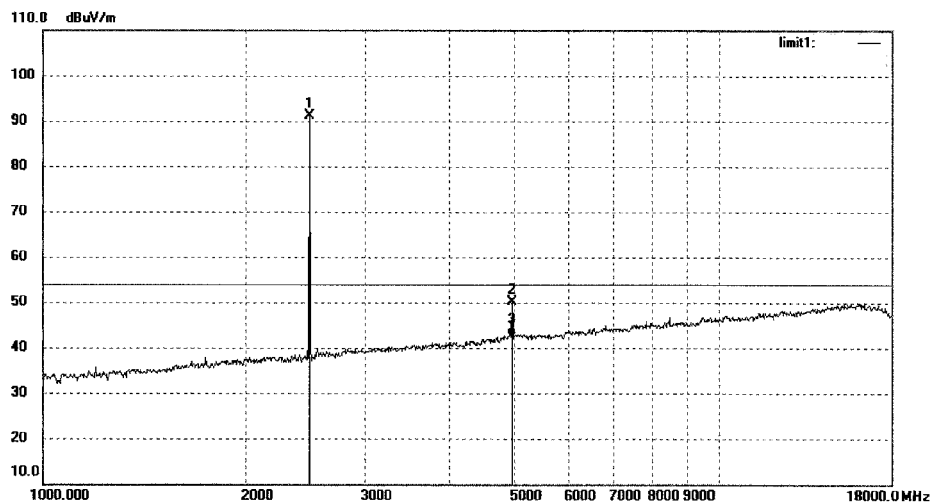
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	98.49	-7.37	91.12	/	/	peak			
2	4960.013	49.66	0.52	50.18	74.00	-23.82	peak			
3	4960.013	41.99	0.52	42.51	54.00	-11.49	AVG			


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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #789

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

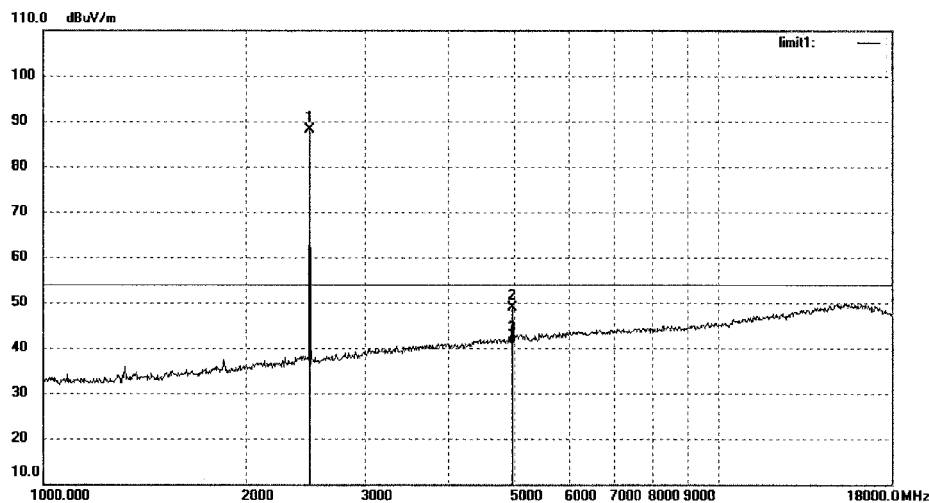
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	95.38	-7.37	88.01	/	/	peak			
2	4960.011	48.26	0.52	48.78	74.00	-25.22	peak			
3	4960.011	40.43	0.52	40.95	54.00	-13.05	AVG			



**Prüfbericht - Nr.: 17050207 001**  
*Test Report No.*
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #800

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 15/05/30/

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

Time:

EUT: Bluetooth Low Energy Advertising Device

Engineer Signature:

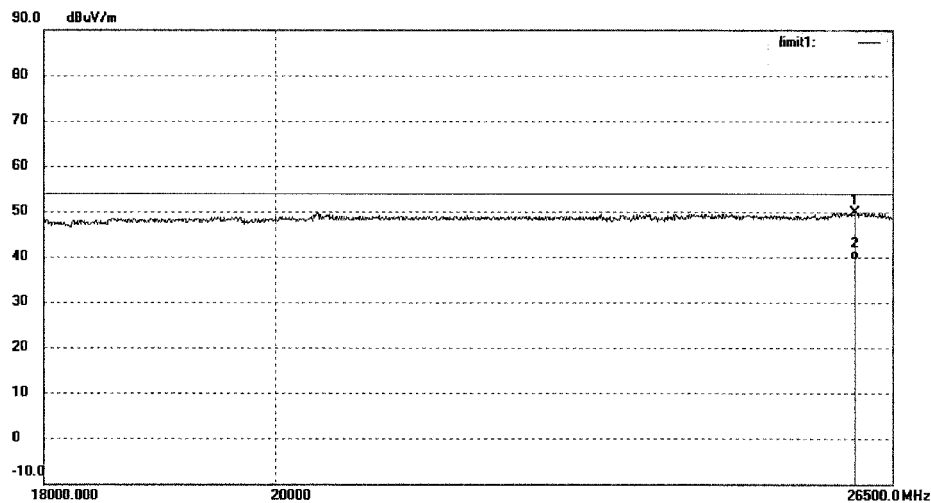
Mode: TX 2402MHz

Distance: 3m

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26062.917	33.49	16.50	49.99	74.00	-24.01	peak			
2	26062.917	22.96	16.50	39.46	54.00	-14.54	AVG			


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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #799

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

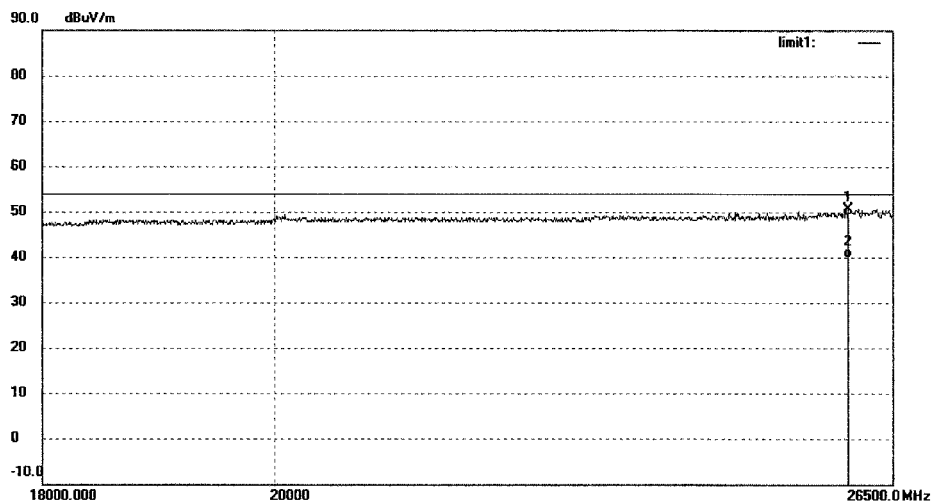
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25972.351	34.17	16.50	50.67	74.00	-23.33	peak			
2	25972.351	23.45	16.50	39.95	54.00	-14.05	AVG			

**Prüfbericht - Nr.: 17050207 001**  
*Test Report No.*
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**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #801

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

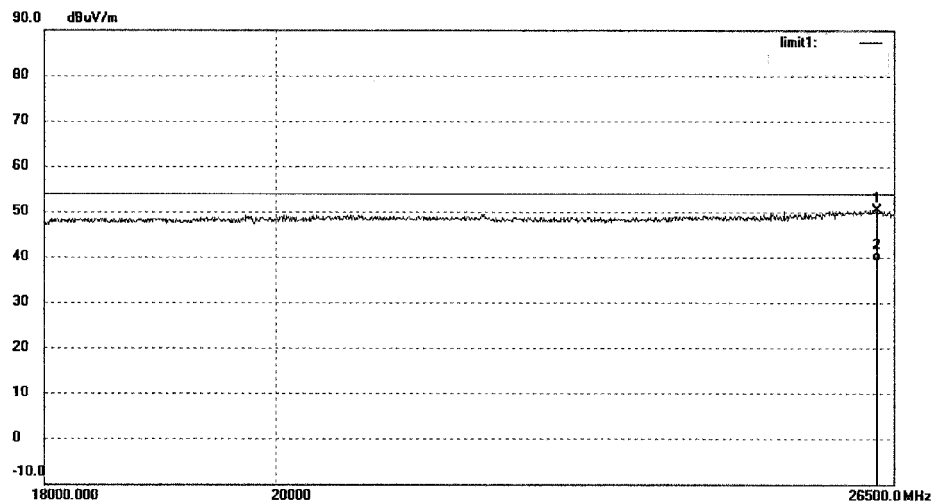
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26305.974	33.92	16.50	50.42	74.00	-23.58	peak			
2	26305.974	22.72	16.50	39.22	54.00	-14.78	AVG			

**Prüfbericht - Nr.: 17050207 001**  
*Test Report No.*
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**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #802

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 15/05/30/

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

Time:

EUT: Bluetooth Low Energy Advertising Device

Engineer Signature:

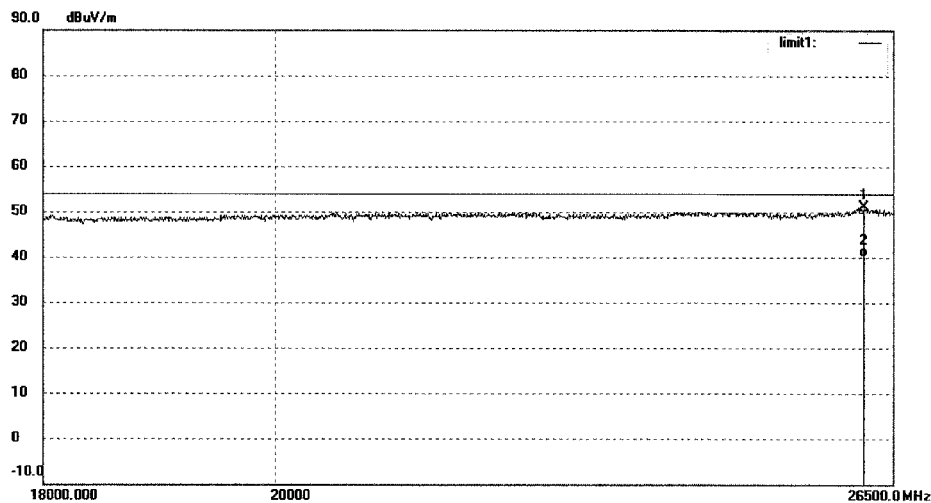
Mode: TX 2440MHz

Distance: 3m

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26153.799	34.75	16.50	51.25	74.00	-22.75	peak			
2	26153.799	23.63	16.50	40.13	54.00	-13.87	AVG			

**Prüfbericht - Nr.: 17050207 001**  
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #804

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

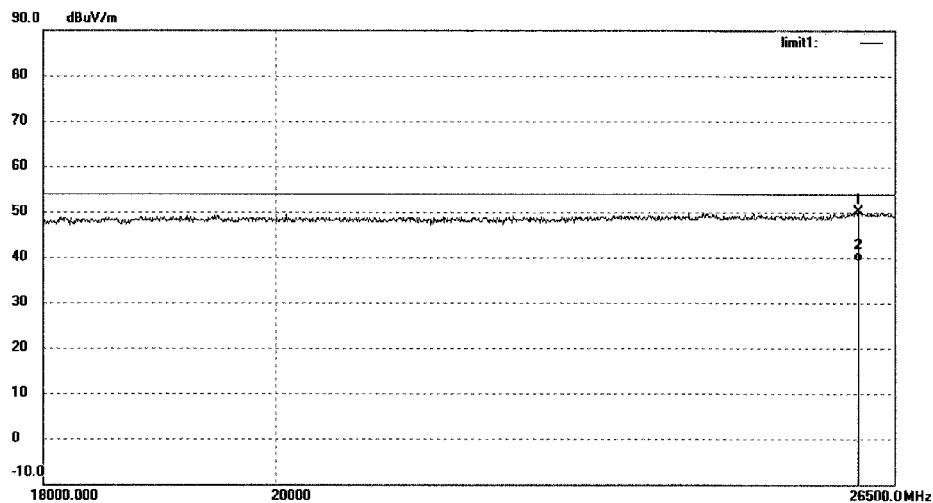
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26072.999	33.58	16.50	50.08	74.00	-23.92	peak			
2	26072.999	22.56	16.50	39.06	54.00	-14.94	AVG			

**Prüfbericht - Nr.: 17050207 001**  
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #803

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

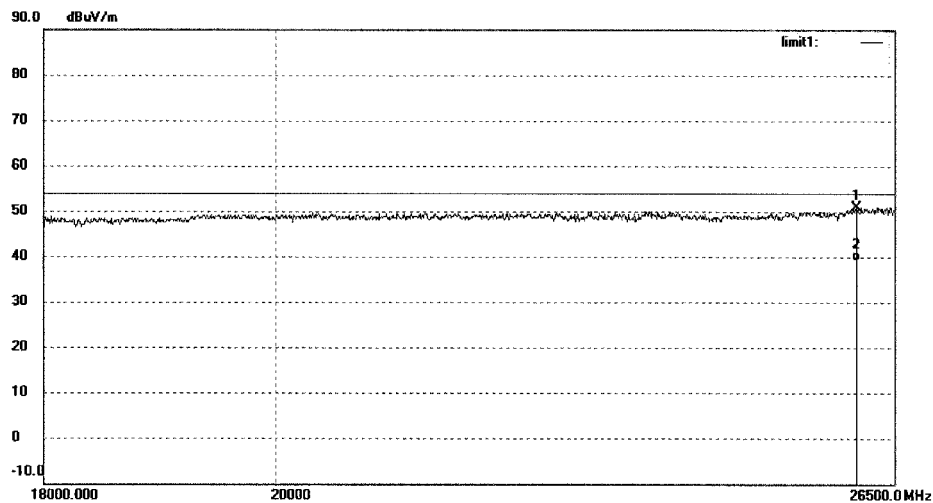
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26042.764	34.41	16.50	50.91	74.00	-23.09	peak			
2	26042.764	22.55	16.50	39.05	54.00	-14.95	AVG			

**Prüfbericht - Nr.: 17050207 001**  
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## Test Plot of Frequency Band Edge


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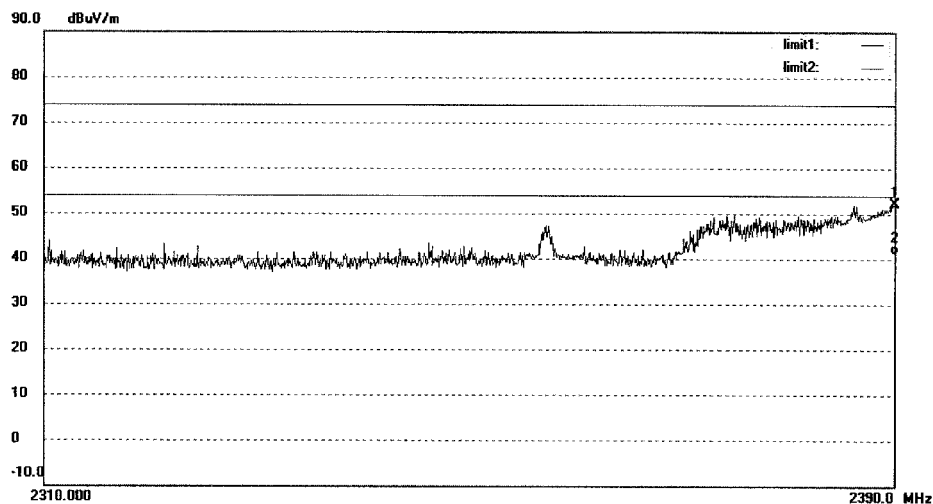
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #785	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 15/05/30/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Low Energy Advertising Device	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: iBKS105	
Manufacturer: Accent Advanced Systems SLU	
Note: Bluetooth 4.0	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	59.74	-7.53	52.21	74.00	-21.79	peak			
2	2390.000	48.70	-7.53	41.17	54.00	-12.83	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #786

Polarization: Vertical

Standard: FCC (Band Edge)

Power Source: DC 3V

Test item: Radiation Test

Date: 15/05/30/

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

Time:

EUT: Bluetooth Low Energy Advertising Device

Engineer Signature:

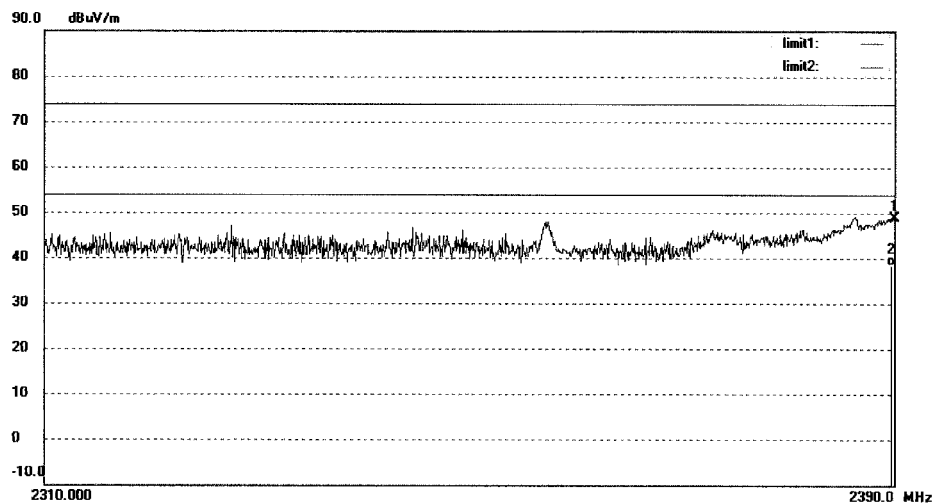
Mode: TX 2402MHz

Distance: 3m

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	56.33	-7.53	48.80	74.00	-25.20	peak			
2	2390.000	45.96	-7.53	38.43	54.00	-15.57	AVG			




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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #791

Polarization: Horizontal

Standard: FCC (Band Edge)

Power Source: DC 3V

Test item: Radiation Test

Date: 15/05/30/

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

Time:

EUT: Bluetooth Low Energy Advertising Device

Engineer Signature:

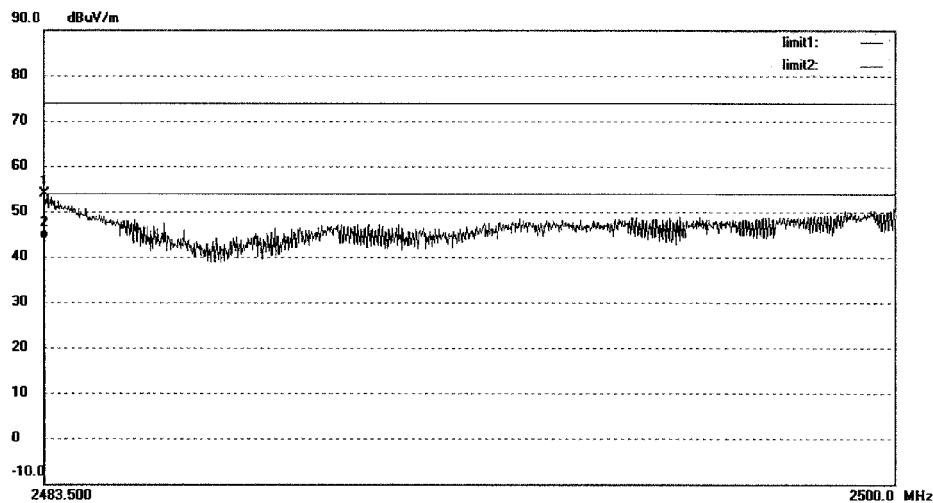
Mode: TX 2480MHz

Distance: 3m

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	61.23	-7.37	53.86	74.00	-20.14	peak			
2	2483.500	51.37	-7.37	44.00	54.00	-10.00	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #792

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

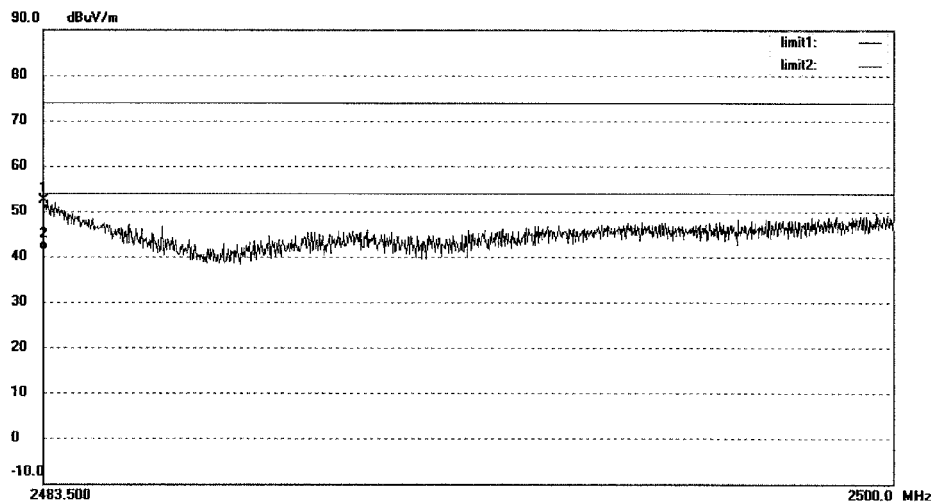
Date: 15/05/30/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	59.87	-7.37	52.50	74.00	-21.50	peak			
2	2483.500	48.83	-7.37	41.46	54.00	-12.54	AVG			

## 6. Safety Human exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

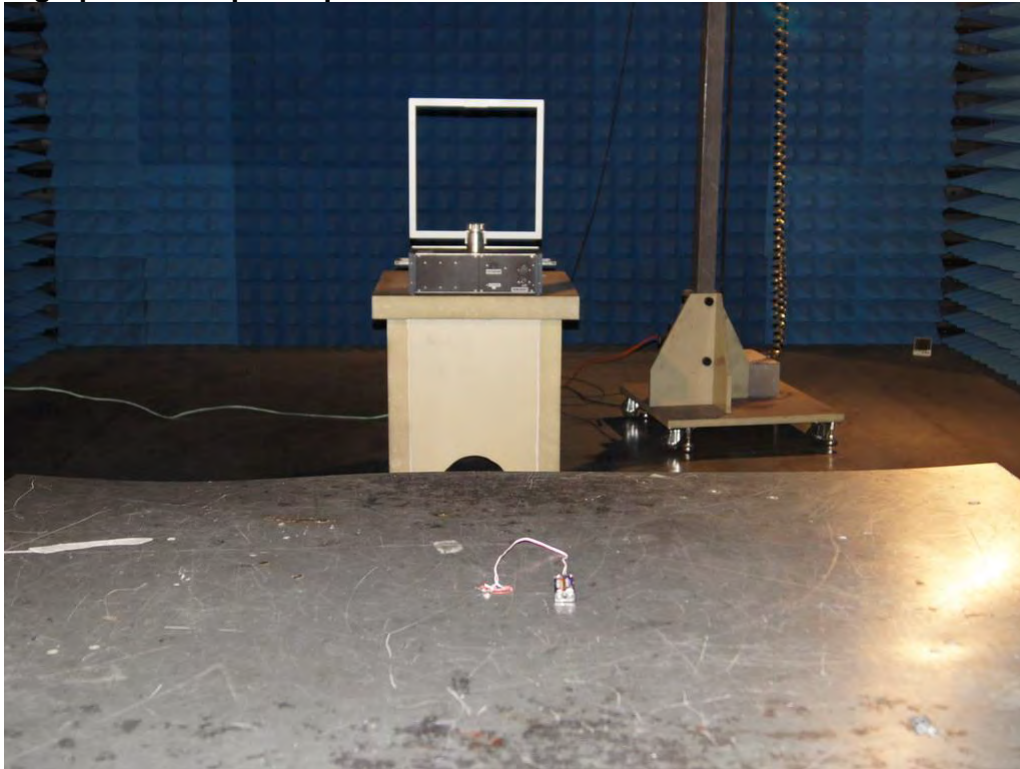
**RESULT:****Pass**

Test standard : FCC KDB Publication 447498 v05r02

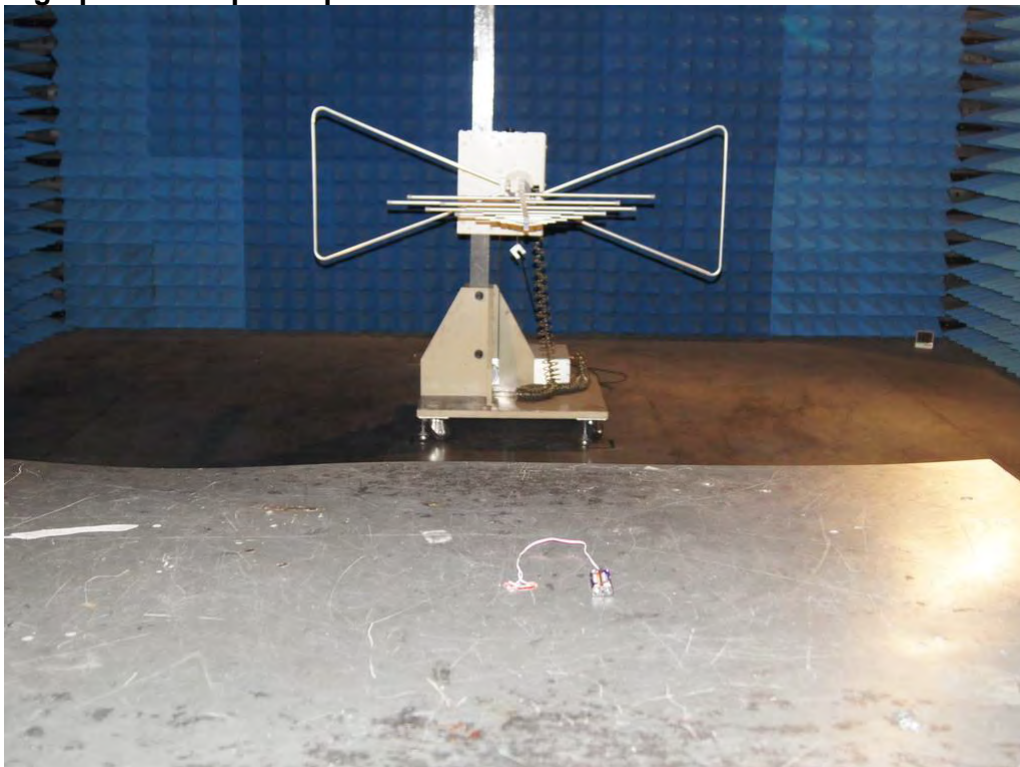
Since maximum radiated power of the transmitter is 0.85mW(-0.69dBm)<10mW, and the distance from EUT to human is 5mm, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v05r02.

## 7. Photographs of the Test Set-Up

**Photograph 1: Set-up for Spurious Emissions for below 30MHz**

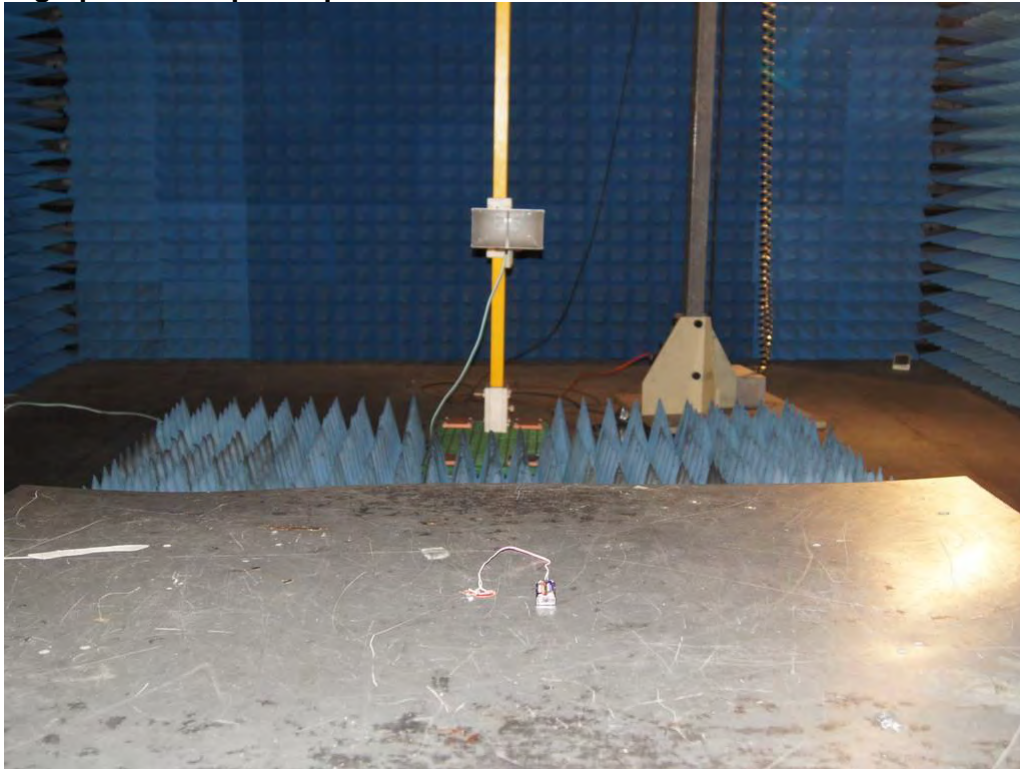


**Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz**

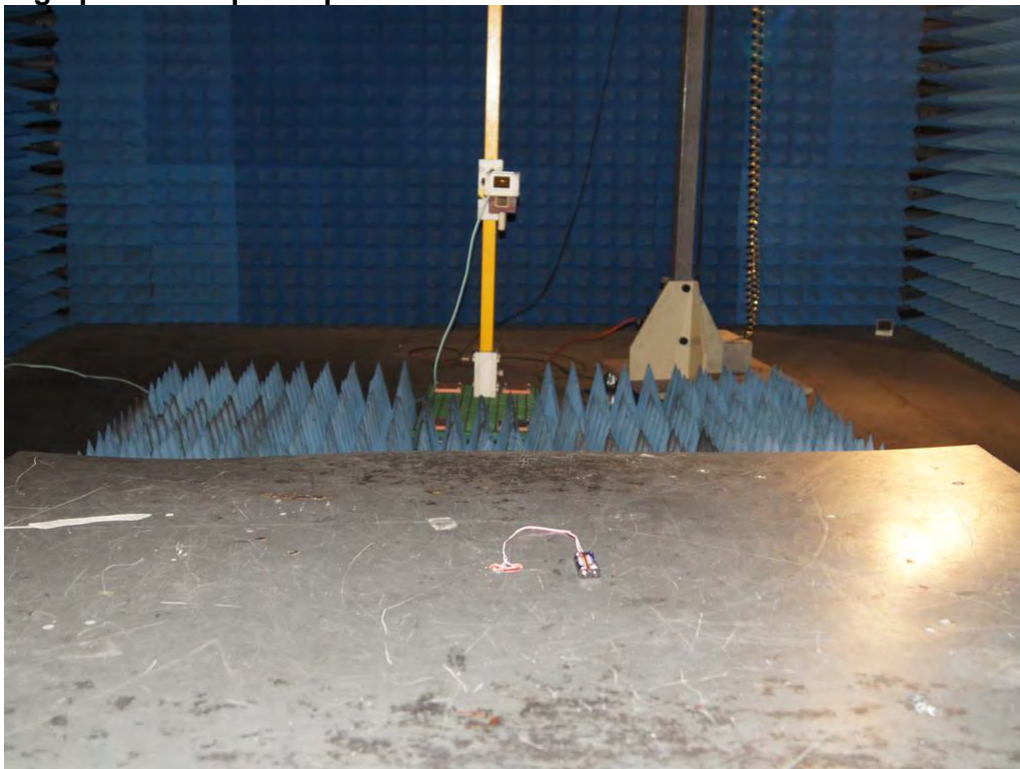




**Photograph 3: Set-up for Spurious Emissions for 1 - 18GHz**



**Photograph 4: Set-up for Spurious Emissions for 18 - 26.5GHz**



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