Prüfbericht-Nr.: *Test Report No.:*	**50067452 001**	**Auftrags-Nr.:** *Order No.:*	164077172	Seite 1 von 27 *Page 1 of 27*
Kunden-Referenz-Nr.: *Client Reference No.:*	632551	**Auftragsdatum:** *Order date:*	27.10.2016	
Auftraggeber: *Client:*	**THUMBS UP(UK) LTD** Unit L, Braintree Industrial Estate, Braintree Road HA4 0EJ, Ruislip London, United Kingdom			
Prüfgegenstand: *Test item:*	MINI HI-FI SPEAKER			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	HIFISPKPRM (PRIMARK)			
Auftrags-Inhalt: *Order content:*	FCC Certification and Verification			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 v06 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			

Wareneingangsdatum: *Date of receipt:*	02.12.2016
Prüfmuster-Nr.: *Test sample No.:*	A000461371 001-006
Prüfzeitraum: *Testing period:*	11.12.2016 - 12.12.2016
Ort der Prüfung: *Place of testing:*	Shenzhen Accurate Technology Co., Ltd.
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.
Prüfergebnis*: *Test result*:*	Pass

geprüft von / *tested by:*			**kontrolliert von** / *reviewed by:*		
05.01.2017	Winnie Hou / Senior Project Manager		09.01.2017	Sam Lin / Technical Certifier	
Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

Sonstiges / *Other:* FCC ID: 2AHHEHIFISPKPRM

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

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.
V04

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT
RESULT: Passed

5.1.2 PEAK OUTPUT POWER
RESULT: Passed

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

5.1.4 SPURIOUS EMISSION
RESULT: Passed

5.1.5 20DB BANDWIDTH
RESULT: Passed

5.1.6 FREQUENCY SEPARATION
RESULT: Passed

5.1.7 NUMBER OF HOPPING FREQUENCY
RESULT: Passed

5.1.8 TIME OF OCCUPANCY
RESULT: Passed

5.1.9 CONDUCTED EMISSIONS
RESULT: Passed

5.1.10 RADIATED EMISSION
RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

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

2. Test Sites

2.1 Test Facilities

Shenzhen Accurate Technology Co., Ltd.

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

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

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	Rohde&Schwarz	FSV40	101495	2017-01-09
Test Receiver	Rohde&Schwarz	ESCS30	100307	2017-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2017-01-09
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2017-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2017-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2017-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2017-01-09
Spectrum Analyzer	Agilent	E7405A	MY45115511	2017-01-09
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2017-01-09
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2017-01-09
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2017-01-09
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2017-01-09

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

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

3. General Product Information

3.1 Product Function and Intended Use

The EUT is MINI HI-FI Speaker which supports Bluetooth function.
The model number was BT1059 during test period, while it was changed to HIFISPKPRM finally by license holder.
For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	MINI HI-FI SPEAKER
Type Designation:	HIFISPKPRM
FCC ID	2AHHEHIFISPKPRM

Table 3: Technical Specification of Bluetooth (BDR & EDR)

Technical Specification	**Value**
Operating Frequency band	2402 – 2480 MHz
Bluetooth Core Version	4.1
Channel Number	79 channels
Channel separation	1MHz
Extreme Temperature Range	-20ºC to +55ºC
Operation Voltage	DC 3.7V via lithium Battery DC 5.0V via USB port for charging
Modulation	GFSK, 8DPSK, π/4DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	0dBi
RF Output Power	0.00082W (-0.88dBm)

Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Bluetooth Transmitting mode (BDR & EDR)
   1. low channel
   2. middle channel
   3. high channel
B. On, Bluetooth hopping mode
C. On, Play with Aux-in
D. Charging
E. 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: 2014 and ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested with following accessories:

Description	Manufacturer	Type	S/N
iPhone6S PLUS	Apple	ML6D2 CH/A	C35QJ76JGRWM
Notebook	LENOVO	ThinkPad X240	N/A
Printer	HP	HP laserjet 1015	CNFG030424

4.4 Countermeasures to achieve EMC Compliance

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

4.5 Test Setup Diagram

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

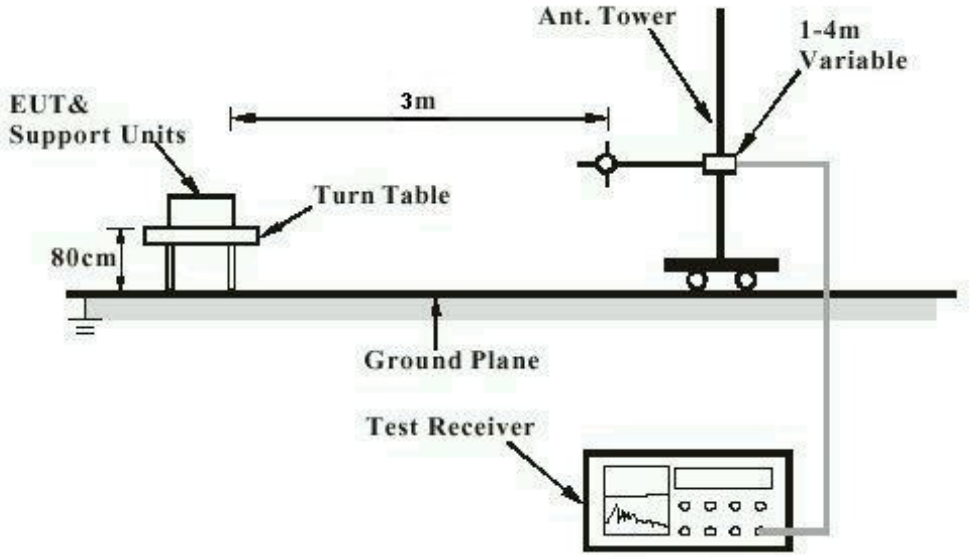


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

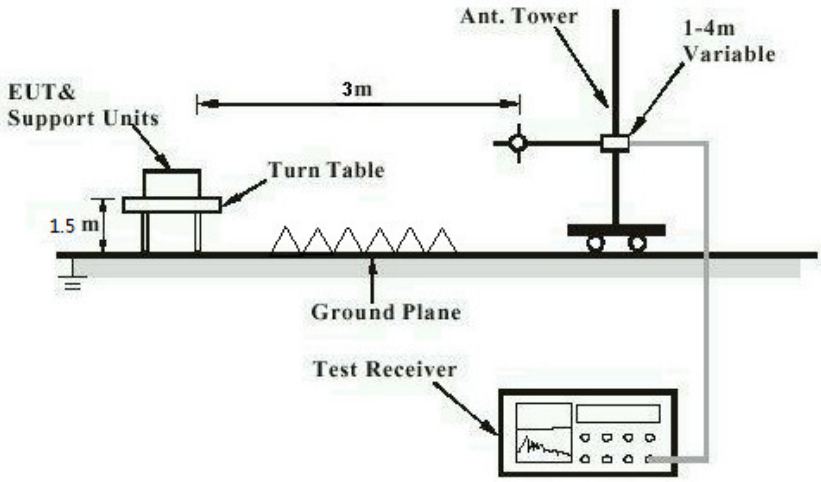


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

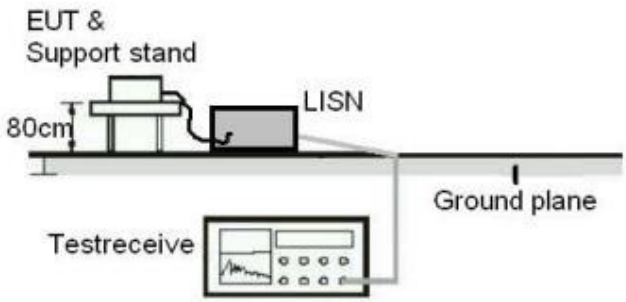
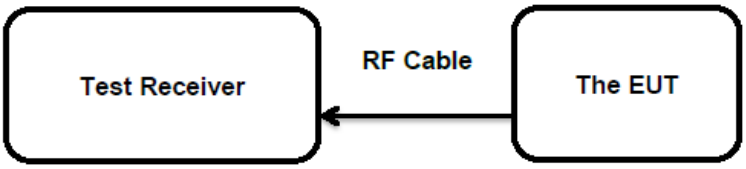


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Passed**

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

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 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	:	2016-12-11
Test standard	:	FCC Part 15.247(b)(1)
Basic standard	:	ANSI C63.10: 2013
Limit	:	FHSS < 0.125 Watts
Kind of test site	:	Shielded room

Test setup

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

Table 5: Test result of Peak Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BDR	2402	-0.88	0.00082	< 0.125
	2441	-1.82	0.00066	
	2480	-2.68	0.00054	
EDR	2402	-0.97	0.00080	< 0.125
	2441	-1.83	0.00066	
	2480	-2.65	0.00054	

Note: The cable loss is taken into account in results.

5.1.3 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT: **Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.10: 2013
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

Test setup

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

All emissions are more than 20dB below fundamental, details refer to Appendix 1, and compliance is achived as well.

5.1.4 Spurious Emission

RESULT: **Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC part 15.247(d) FCC Part 15.205
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

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

Remark:
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.
Testing was carried out within frequency range 9kHz to the tenth harmonics.

For details refer to Appendix 1.

5.1.5 20dB Bandwidth

RESULT: **Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC Part 15.247(a)(1)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded room

Test setup

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

Table 6: Test result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BDR	2402	1081.0	720.667	/
	2441	1085.4	723.600	
	2480	1081.0	720.667	
EDR	2402	1337.2	891.467	/
	2441	1337.2	891.467	
	2480	1337.2	891.467	

5.1.6 Frequency Separation

RESULT: **Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC part 15.247(a)(1)
Basic standard	:	ANSI C63.4: 2003
Limit	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater

Test setup

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

Table 7: Test result of Frequency Separation

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

5.1.7 Number of hopping frequency

RESULT: **Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

Test setup

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

Table 8: Test result of Number of hopping frequency

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

5.1.8 Time of Occupancy

RESULT: **Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10: 2013
Limits	:	<0.4s
Kind of test site	:	Shield room

Test setup

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

Table 9: Test result of Time of Occupancy

Test Mode	Channel	Data Packet	Pulse width (ms)	Measured Dwell time(s)	Limit (s)
BDR mode	2402	DH1	0.449	0.144	< 0.4s
		DH3	1.681	0.269	
		DH5	2.986	0.319	
	2441	DH1	0.391	0.125	
		DH3	1.696	0.271	
		DH5	2.964	0.316	
	2480	DH1	0.377	0.121	
		DH3	1.681	0.269	
		DH5	2.986	0.319	
EDR mode	2402	3DH1	0.449	0.144	
		3DH3	1.739	0.278	
		3DH5	2.957	0.315	
	2441	3DH1	0.449	0.144	
		3DH3	1.696	0.271	
		3DH5	3.0	0.320	
	2480	3DH1	0.449	0.144	
		3DH3	1.681	0.269	
		3DH5	2.978	0.318	

Note:

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

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

5.1.9 Conducted emissions

RESULT: **Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC Part 15.107(a) & FCC Part 15.207(a)
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.207(a)
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz via AC/DC Adapter of Notebook
Operation Mode	:	B, C+D
Earthing	:	Not connected
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

5.1.10 Radiated Emission

RESULT: **Passed**

Date of testing	:	2016-12-11
Test standard	:	FCC Part 15.109(a) & FCC Part 15.209(a)
Basic standard		ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Limit	:	FCC Part 15.109(a) & FCC Part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber

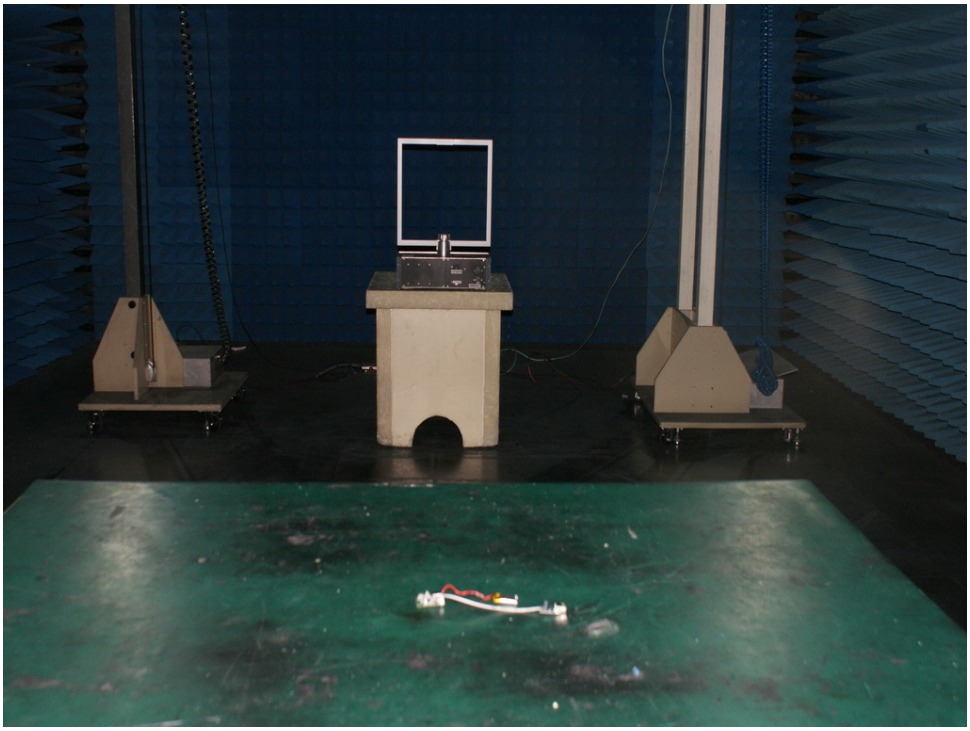
Test setup

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

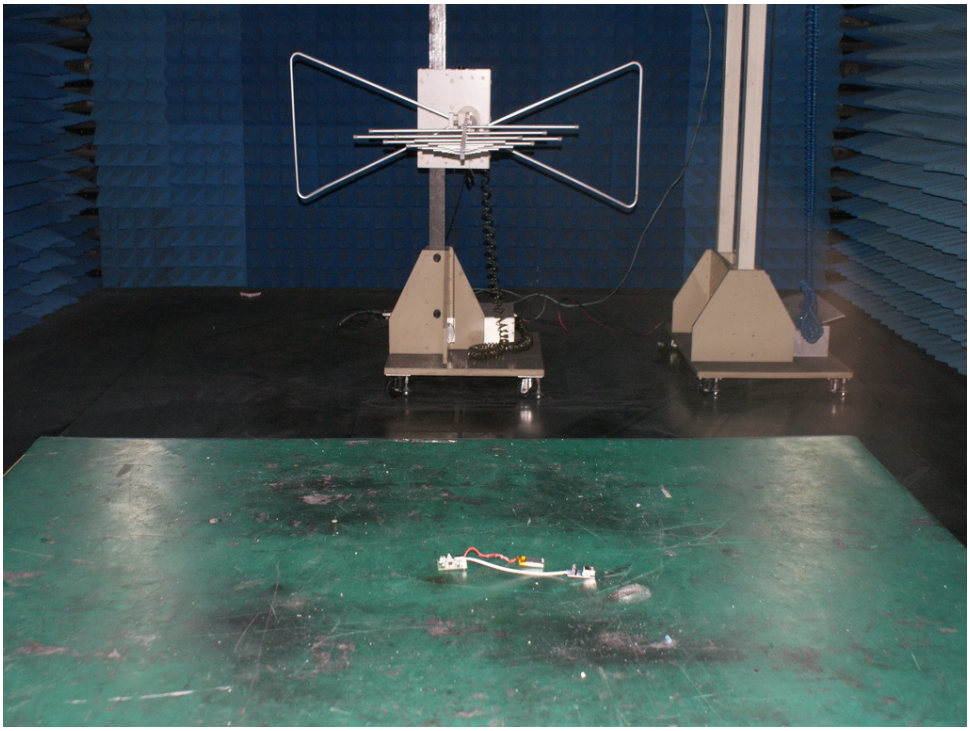
Test data refer to Appendix 1.

6. Photographs of the Test Set-Up

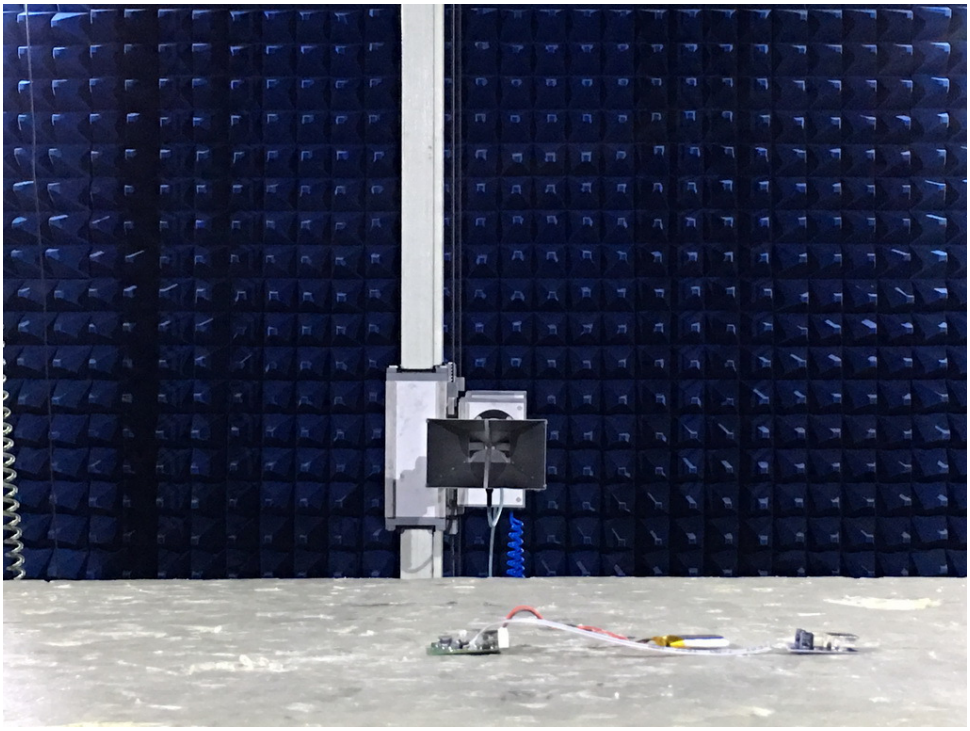
Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)



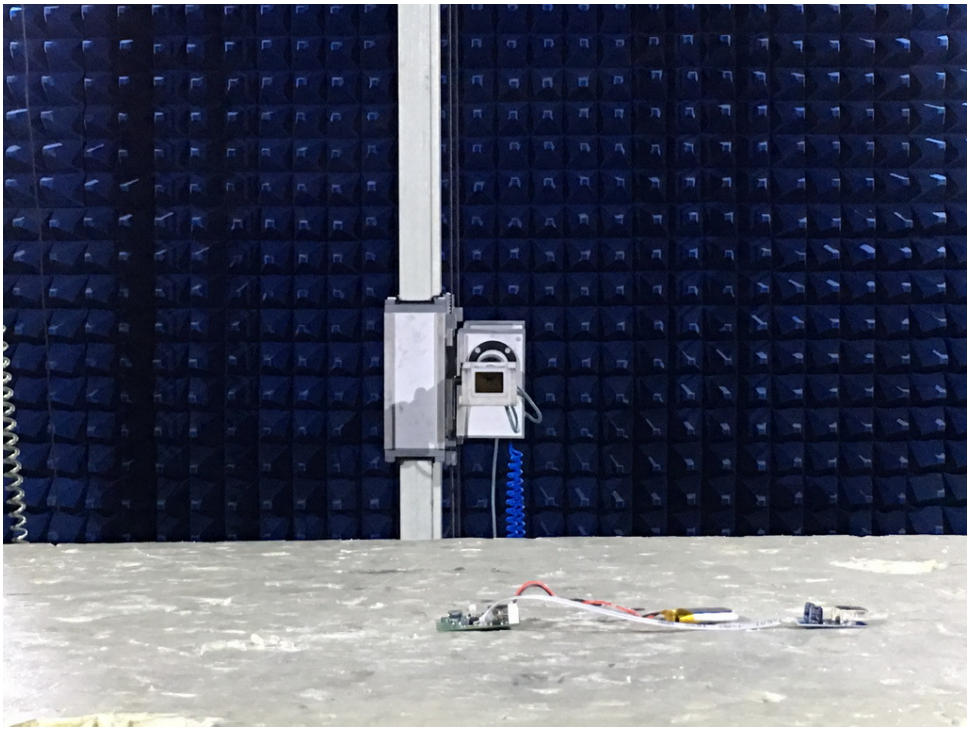
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)



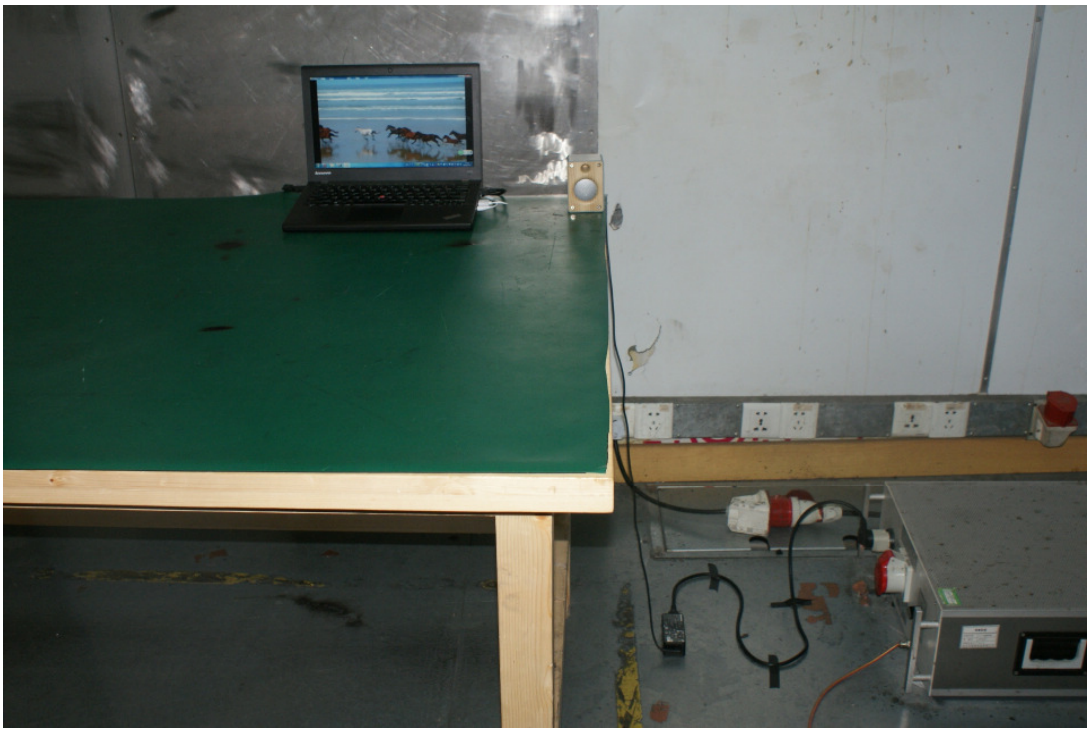
Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz)



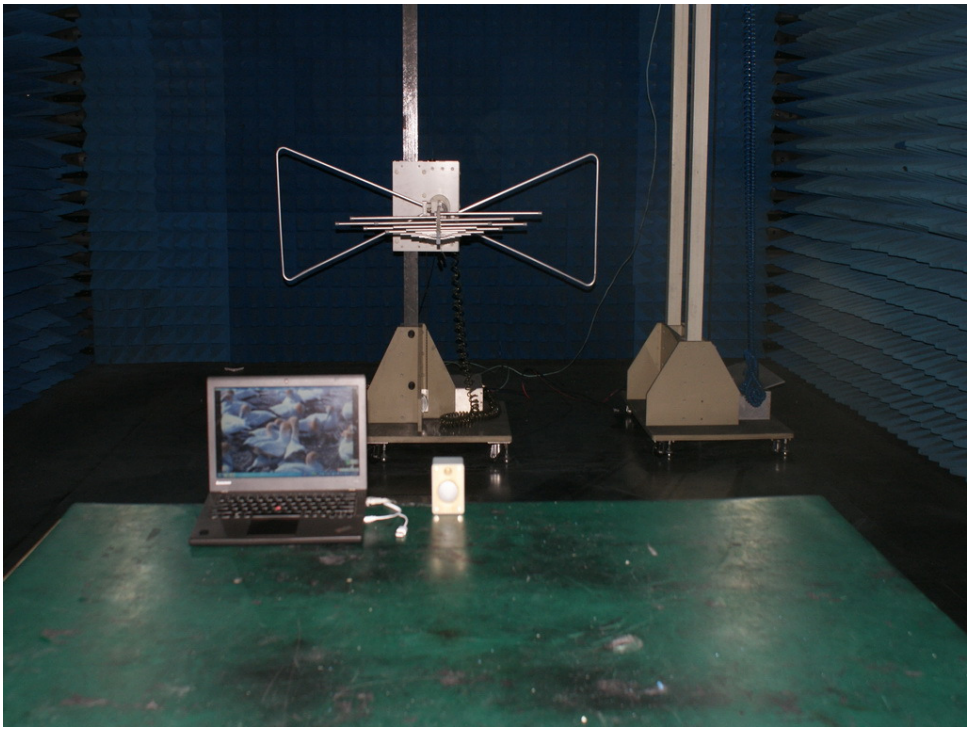
Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz)



Photograph 5: Set-up for Conducted Emissions



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



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

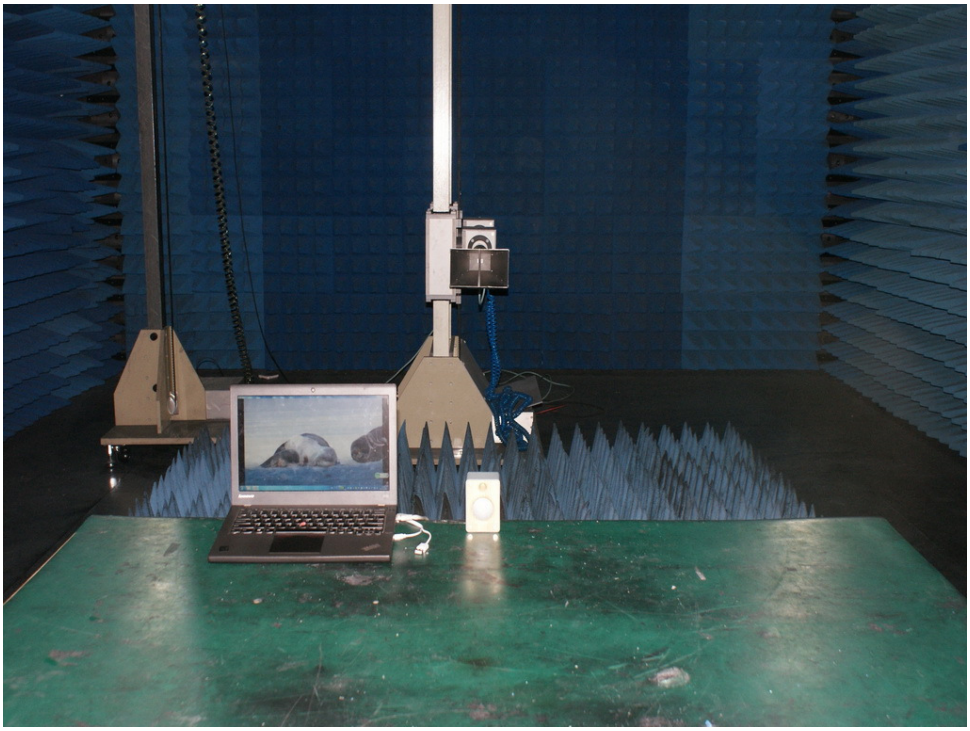


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Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                  Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:  TX 2402MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 3.7V
Comment:              X
```

SCAN TABLE: "LFRE Fin"

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

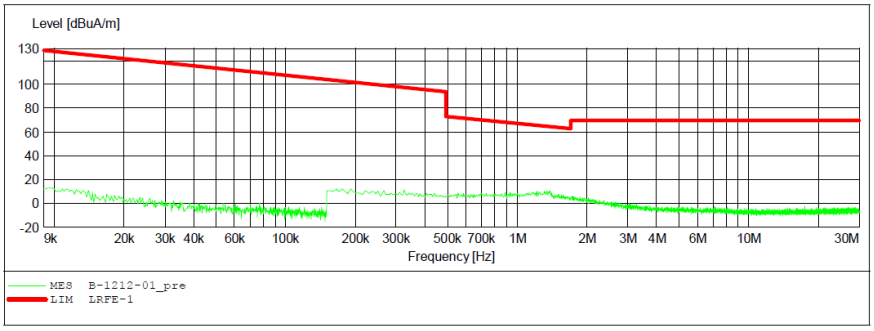


Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                  Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:  TX 2402MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 3.7V
Comment:              Y
```

SCAN TABLE: "LFRE Fin"

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

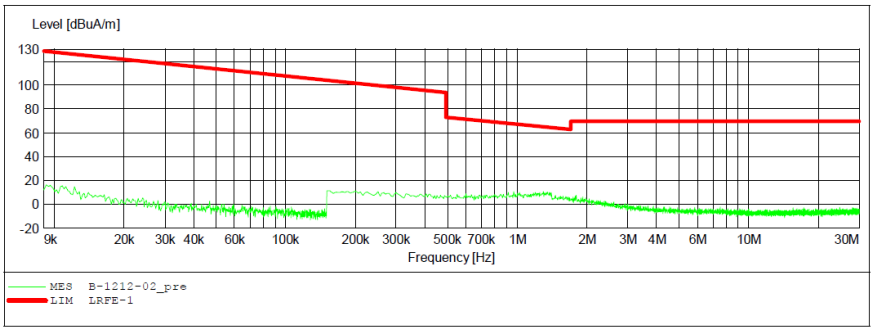


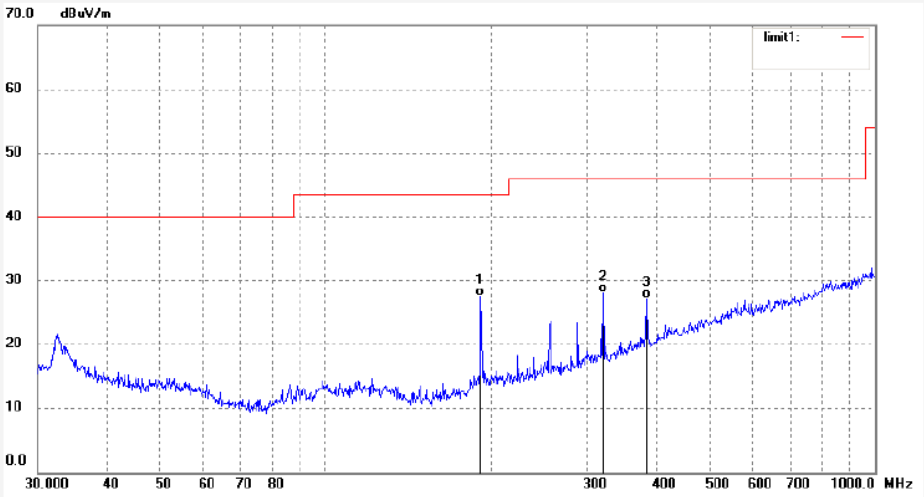
Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz)

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

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

Job No.: LGWADE #4625	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	191.7450	40.01	-12.42	27.59	43.50	-15.91	QP			
2	319.9370	36.49	-8.45	28.04	46.00	-17.96	QP			
3	383.9318	34.08	-6.94	27.14	46.00	-18.86	QP			

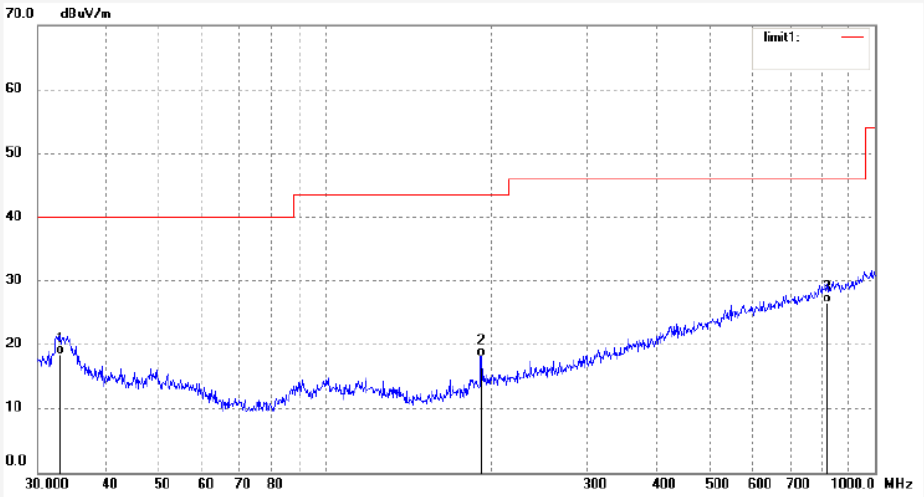
Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz)

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

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

Job No.: LGWADE #4626	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.9791	28.23	-9.82	18.41	40.00	-21.59	QP			
2	192.4185	30.48	-12.39	18.09	43.50	-25.41	QP			
3	818.8341	25.33	1.11	26.44	46.00	-19.56	QP			

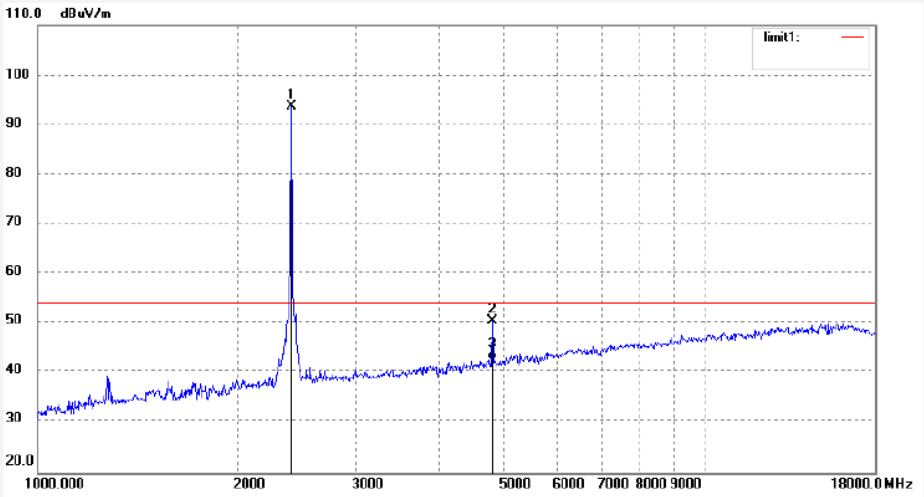
Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz)

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

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

Job No.: LGWADE #4609	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



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	95.40	-1.61	93.79	/	/	peak			
2	4804.028	45.50	4.90	50.40	74.00	-23.60	peak			
3	4804.028	37.64	4.90	42.54	54.00	-11.46	AVG			

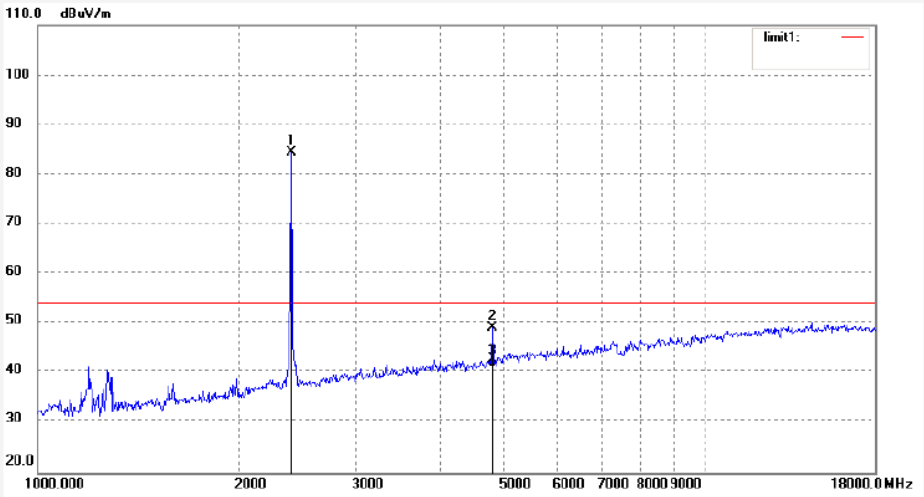
Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz)

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

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

Job No.: LGWADE #4610	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



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	86.03	-1.61	84.42	/	/	peak			
2	4804.026	44.28	4.90	49.18	74.00	-24.82	peak			
3	4804.026	36.33	4.90	41.23	54.00	-12.77	AVG			

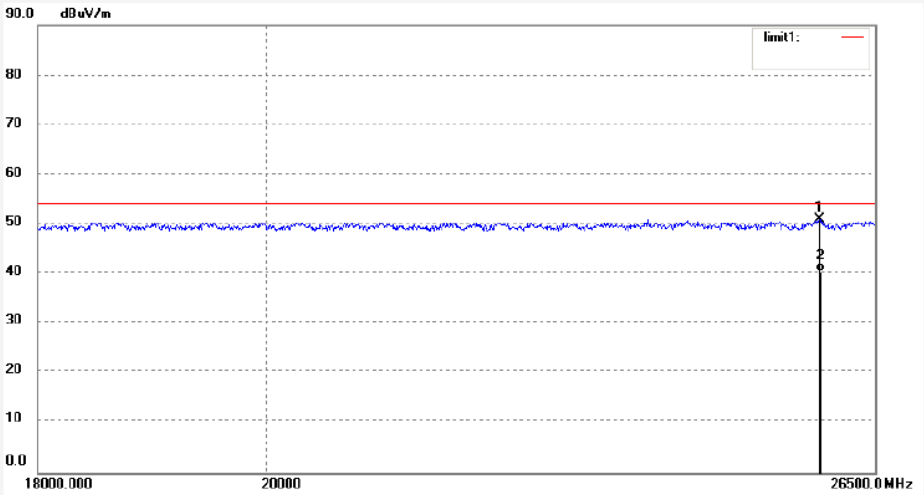
Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz –25GHz)

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

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

Job No.: LGWADE #4620	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25832.095	10.70	40.16	50.86	54.00	-3.14	peak			
2	25832.095	0.19	40.16	40.35	54.00	-13.65	AVG			

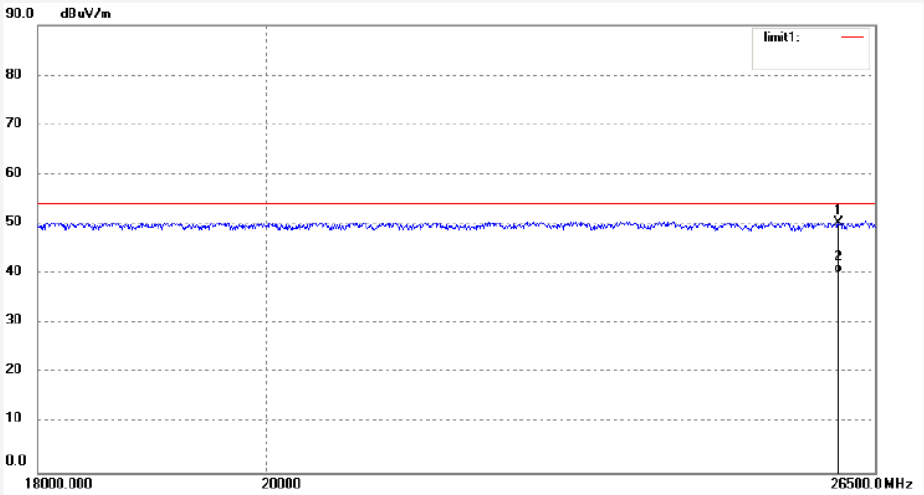
Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 25GHz)

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

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

Job No.: LGWADE #4619	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26052.838	9.25	40.97	50.22	54.00	-3.78	peak			
2	26052.838	-0.73	40.97	40.24	54.00	-13.76	AVG			

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

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                  Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:  TX 2441MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 3.7V
Comment:              X
```

SCAN TABLE: "LFRE Fin"

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

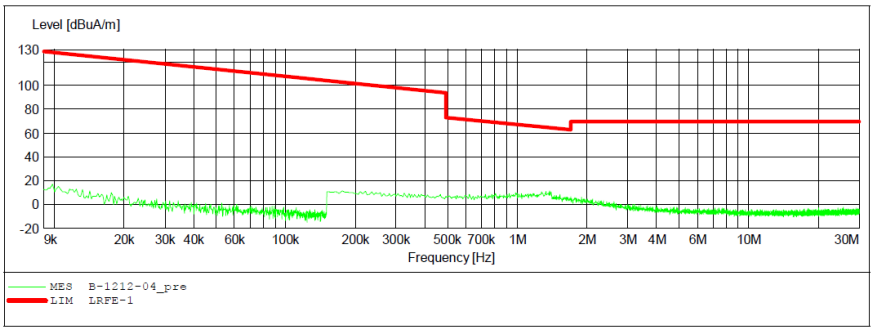


Figure 10: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                  Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:  TX 2441MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 3.7V
Comment:              Y
```

SCAN TABLE: "LFRE Fin"

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

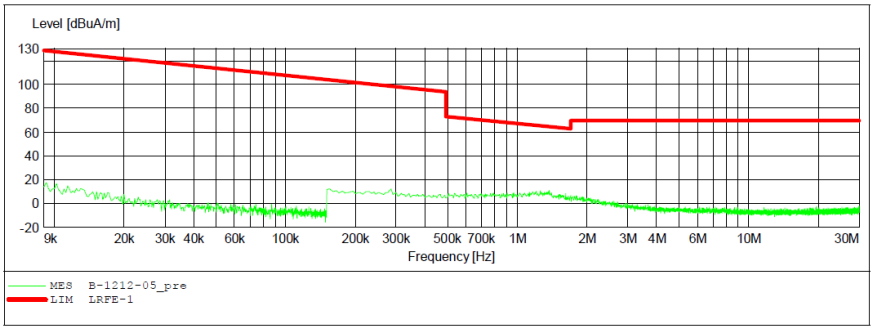


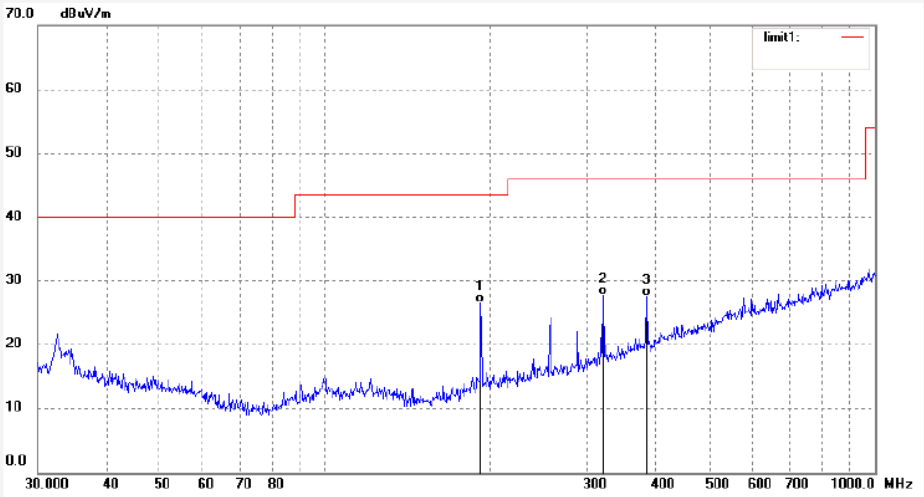
Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz)

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

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

Job No.: LGWADE #4628	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	191.7450	38.95	-12.42	26.53	43.50	-16.97	QP			
2	319.9370	36.11	-8.45	27.66	46.00	-18.34	QP			
3	383.9318	34.55	-6.94	27.61	46.00	-18.39	QP			

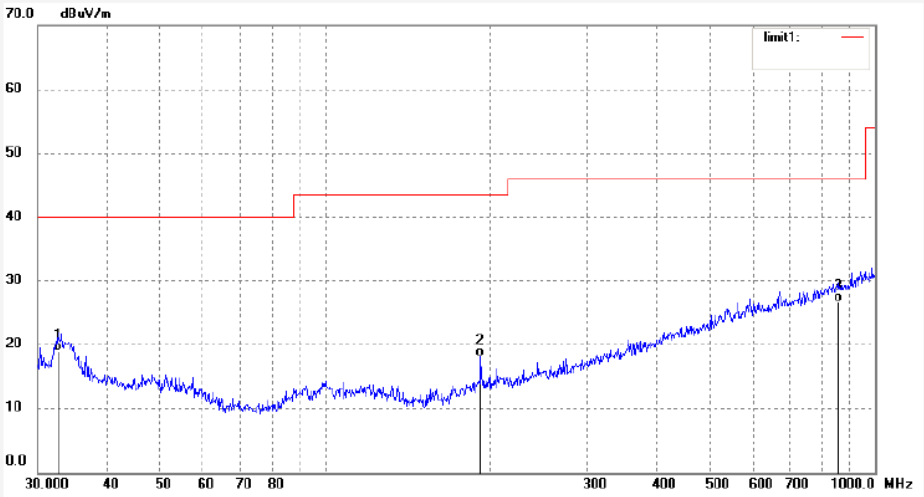
Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz)

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

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

Job No.: LGWADE #4627	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.6340	28.74	-9.71	19.03	40.00	-20.97	QP			
2	191.7450	30.60	-12.42	18.18	43.50	-25.32	QP			
3	860.0352	24.94	1.72	26.66	46.00	-19.34	QP			

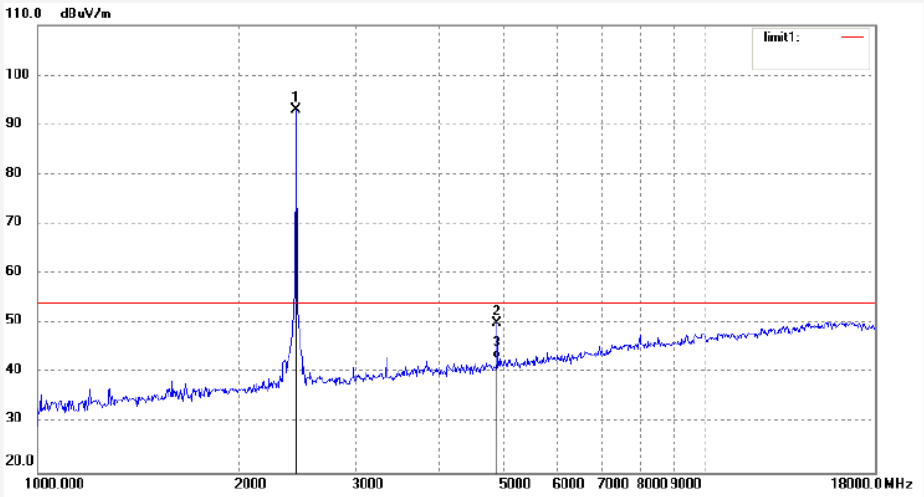
Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz)

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

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

Job No.: LGWADE #4613	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	94.56	-1.44	93.12	/	/	peak			
2	4882.028	44.46	5.61	50.07	74.00	-23.93	peak			
3	4882.028	37.17	5.61	42.78	54.00	-11.22	AVG			

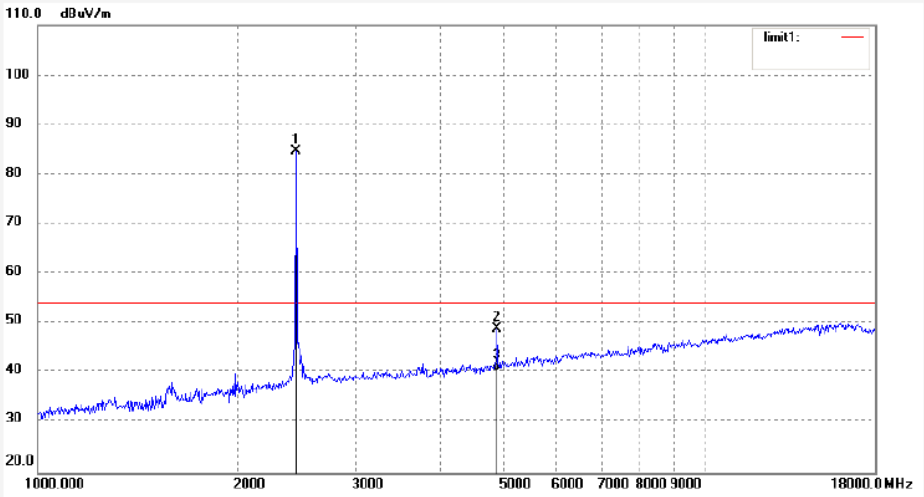
Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz)

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

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

Job No.: LGWADE #4614	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	86.05	-1.44	84.61	/	/	peak			
2	4882.024	43.23	5.61	48.84	74.00	-25.16	peak			
3	4882.024	34.74	5.61	40.35	54.00	-13.65	AVG			

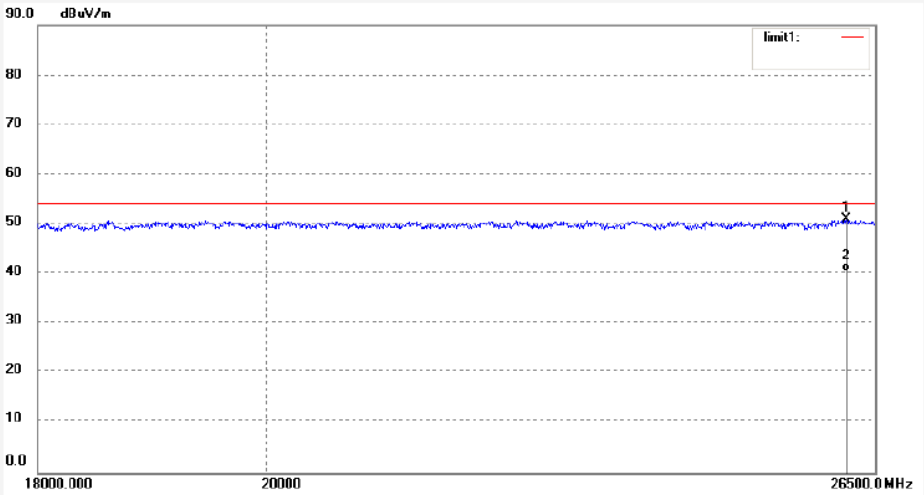
Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 25GHz)

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

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

Job No.: LGWADE #4621	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



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	10.63	40.32	50.95	54.00	-3.05	peak			
2	26153.799	0.01	40.32	40.33	54.00	-13.67	AVG			

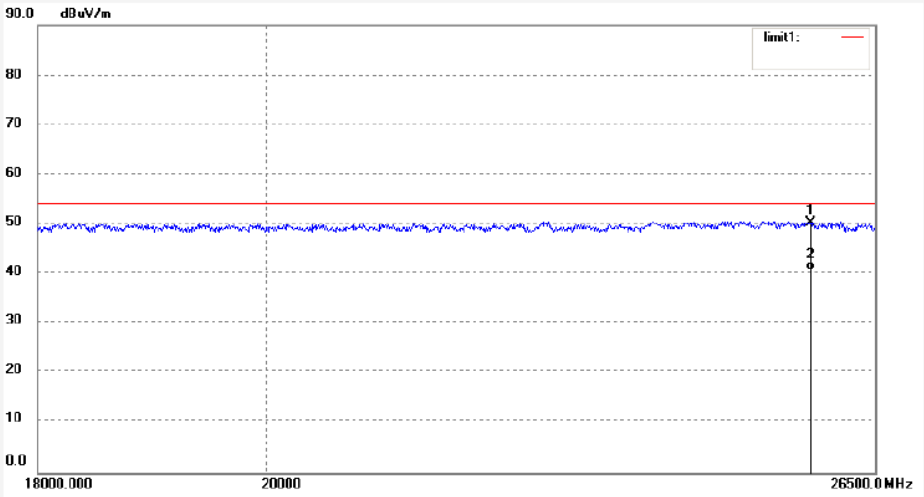
Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 25GHz)

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

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

Job No.: LGWADE #4622	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25722.426	9.36	41.03	50.39	54.00	-3.61	peak			
2	25722.426	-0.38	41.03	40.65	54.00	-13.35	AVG			

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

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                  Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:  TX 2480MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 3.7V
Comment:              X
```

SCAN TABLE: "LFRE Fin"

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

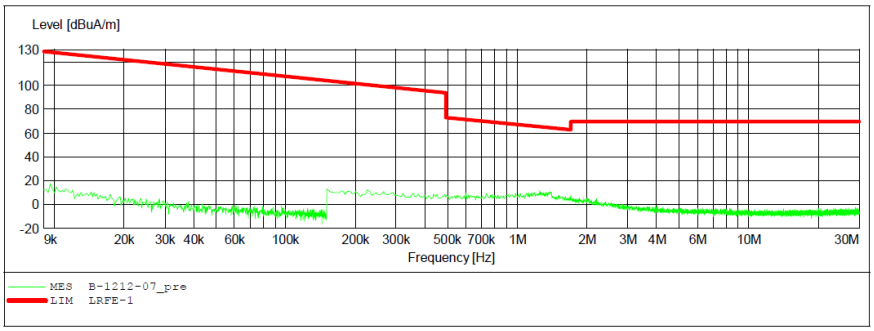


Figure 18: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                  Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:  TX 2480MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 3.7V
Comment:              Y
```

SCAN TABLE: "LFRE Fin"

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

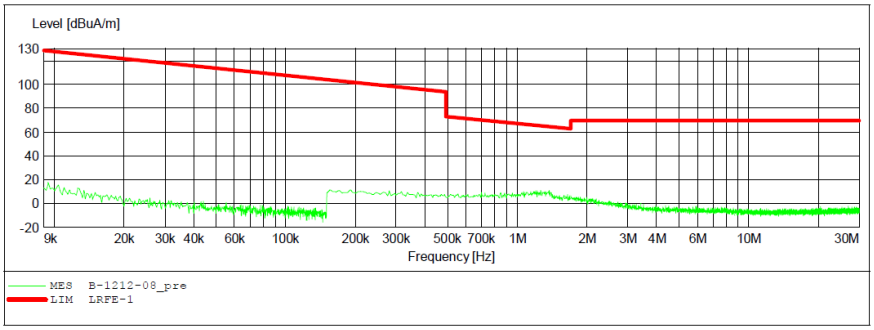


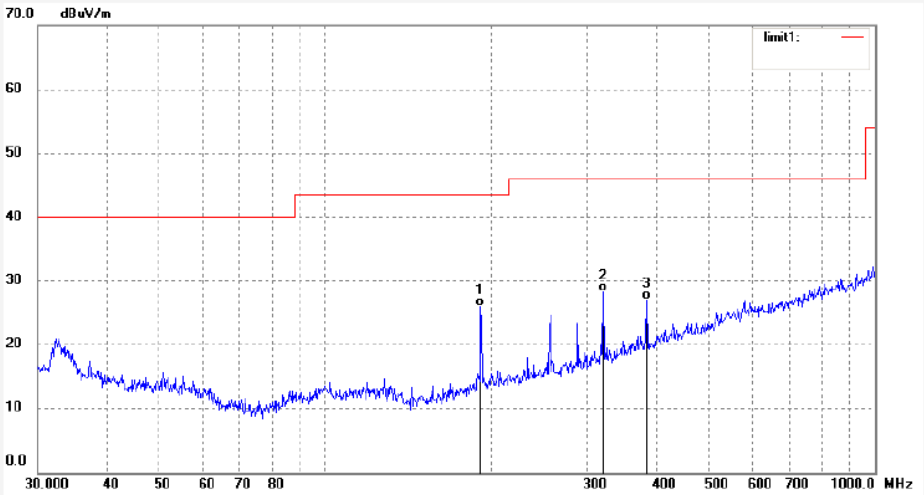
Figure 19: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz)

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

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

Job No.: LGWADE #4629	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	191.7450	38.38	-12.42	25.96	43.50	-17.54	QP			
2	319.9370	36.64	-8.45	28.19	46.00	-17.81	QP			
3	383.9318	34.04	-6.94	27.10	46.00	-18.90	QP			

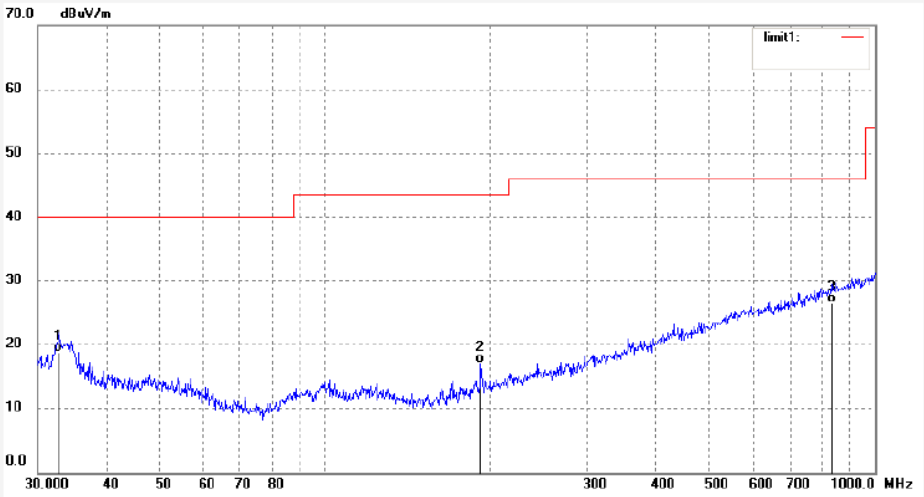
Figure 20: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz)

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

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

Job No.: LGWADE #4630	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	28.65	-9.75	18.90	40.00	-21.10	QP			
2	191.7450	29.40	-12.42	16.98	43.50	-26.52	QP			
3	833.3170	25.14	1.42	26.56	46.00	-19.44	QP			

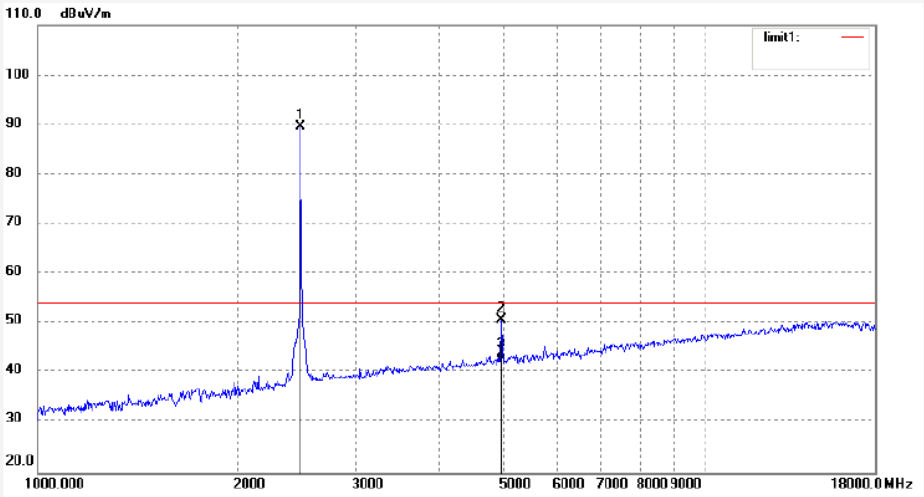
Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz)

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

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

Job No.: LGWADE #4616	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



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	90.99	-1.40	89.59	/	/	peak			
2	4960.023	44.57	6.10	50.67	74.00	-23.33	peak			
3	4960.023	36.44	6.10	42.54	54.00	-11.46	AVG			

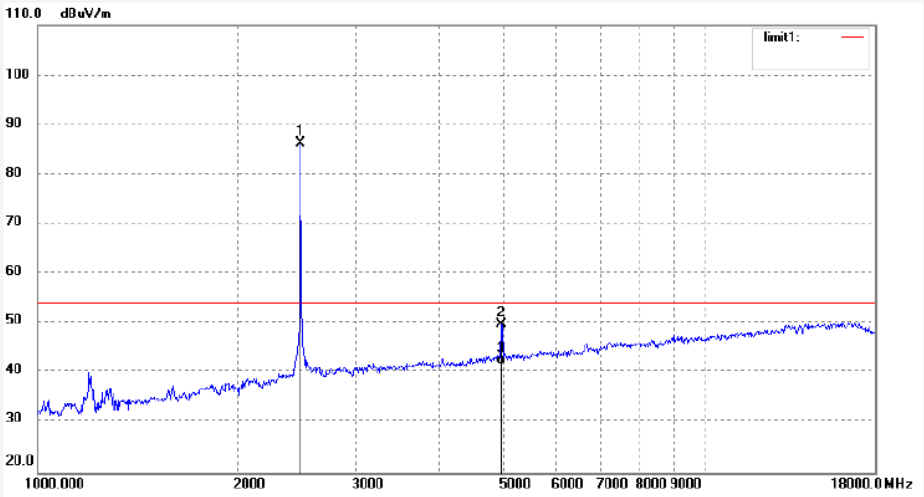
Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz)

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

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

Job No.: LGWADE #4615	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	87.68	-1.40	86.28	/	/	peak			
2	4960.028	43.70	6.10	49.80	74.00	-24.20	peak			
3	4960.028	35.68	6.10	41.78	54.00	-12.22	AVG			

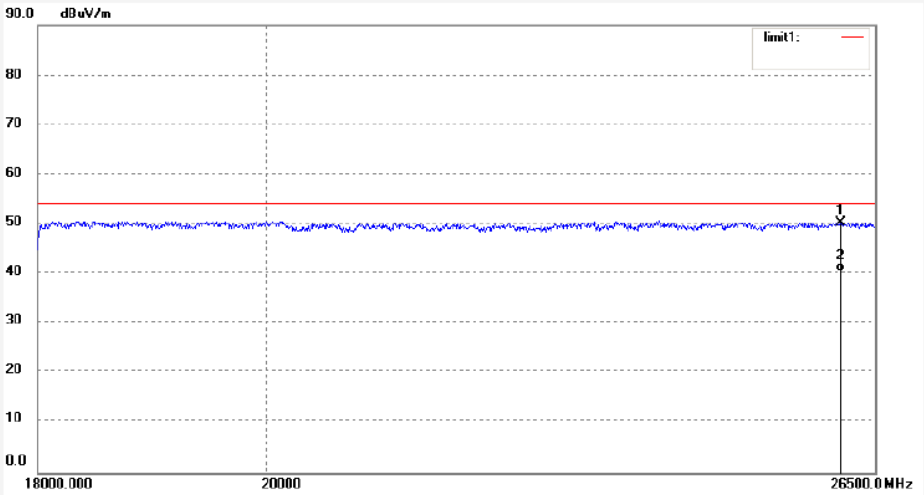
Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz –25GHz)

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

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

Job No.: LGWADE #4624	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26083.086	9.96	40.29	50.25	54.00	-3.75	peak			
2	26083.086	0.16	40.29	40.45	54.00	-13.55	AVG			

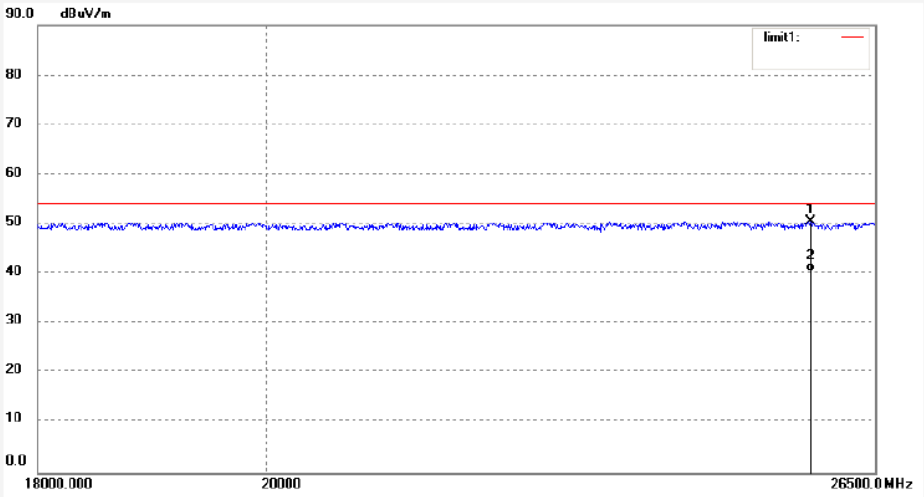
Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 25GHz)

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

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

Job No.: LGWADE #4623	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25722.426	9.45	41.03	50.48	54.00	-3.52	peak			
2	25722.426	-0.56	41.03	40.47	54.00	-13.53	AVG			

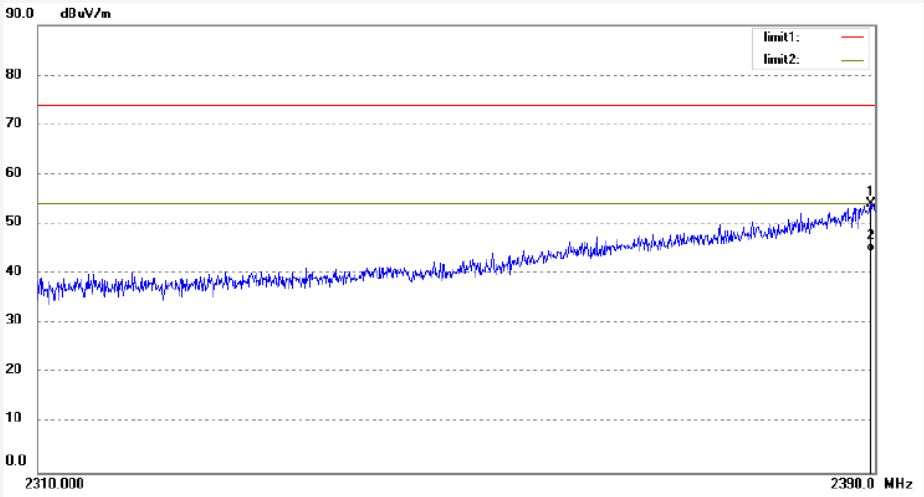
Figure 25: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal

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

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

Job No.: LGWADE #4612	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2389.600	55.79	-1.71	54.08	74.00	-19.92	peak			
2	2389.600	46.05	-1.71	44.34	54.00	-9.66	AVG			

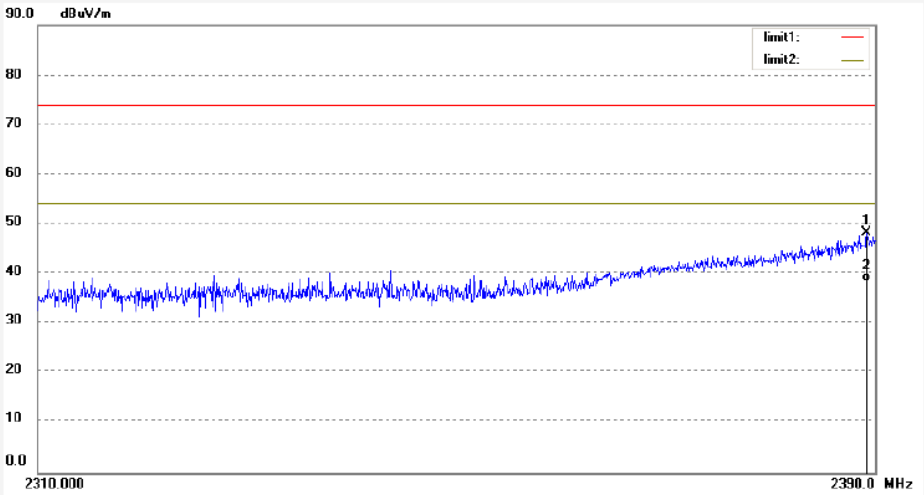
Figure 26: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical

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.: LGWADE #4611	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2389.200	49.90	-1.71	48.19	74.00	-25.81	peak			
2	2389.200	40.13	-1.71	38.42	54.00	-15.58	AVG			

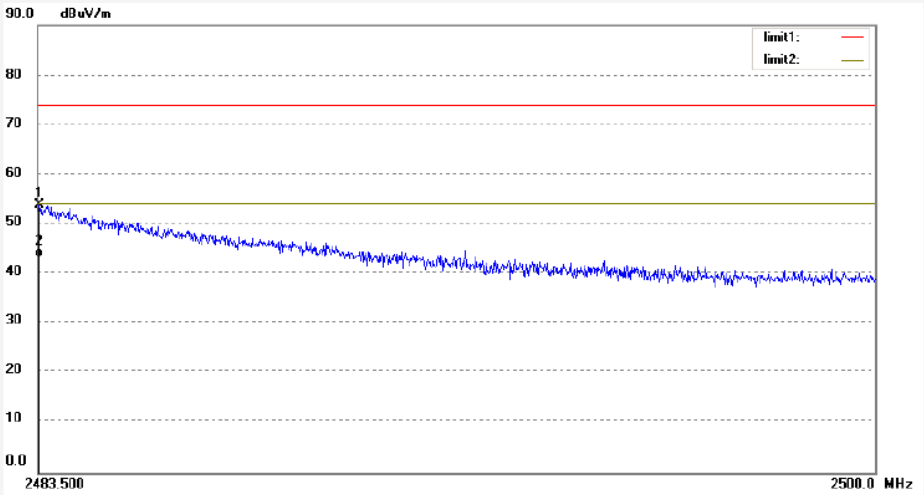
Figure 27: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal

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

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

Job No.: LGWADE #4617	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.533	55.28	-1.40	53.88	74.00	-20.12	peak			
2	2483.533	44.64	-1.40	43.24	54.00	-10.76	AVG			

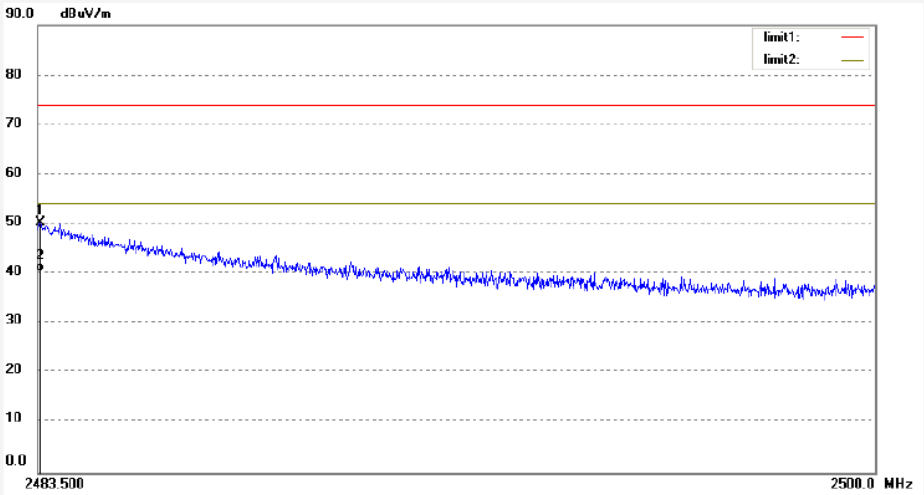
Figure 28: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical

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

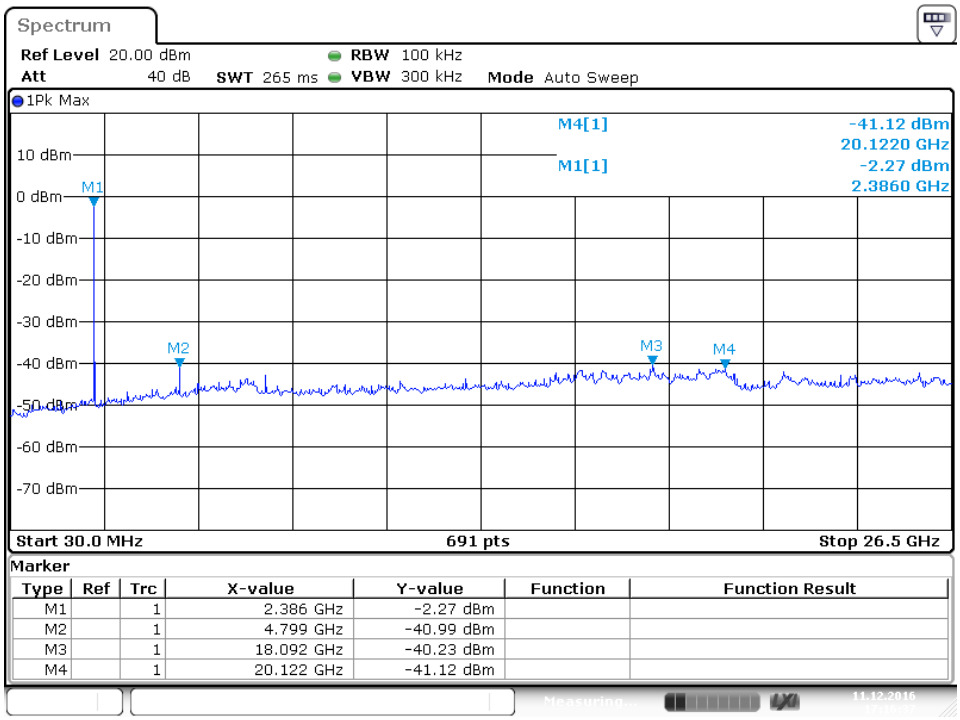
Job No.: LGWADE #4618	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: BT1059	
Manufacturer:	

Note: Bluetooth



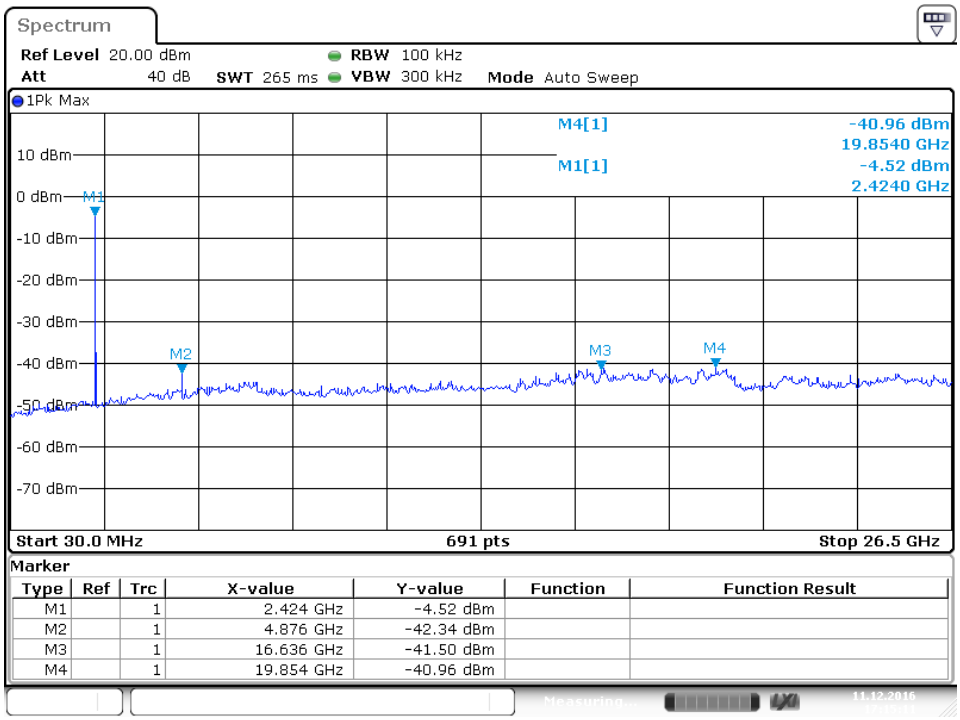
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.550	51.62	-1.40	50.22	74.00	-23.78	peak			
2	2483.550	41.85	-1.40	40.45	54.00	-13.55	AVG			

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



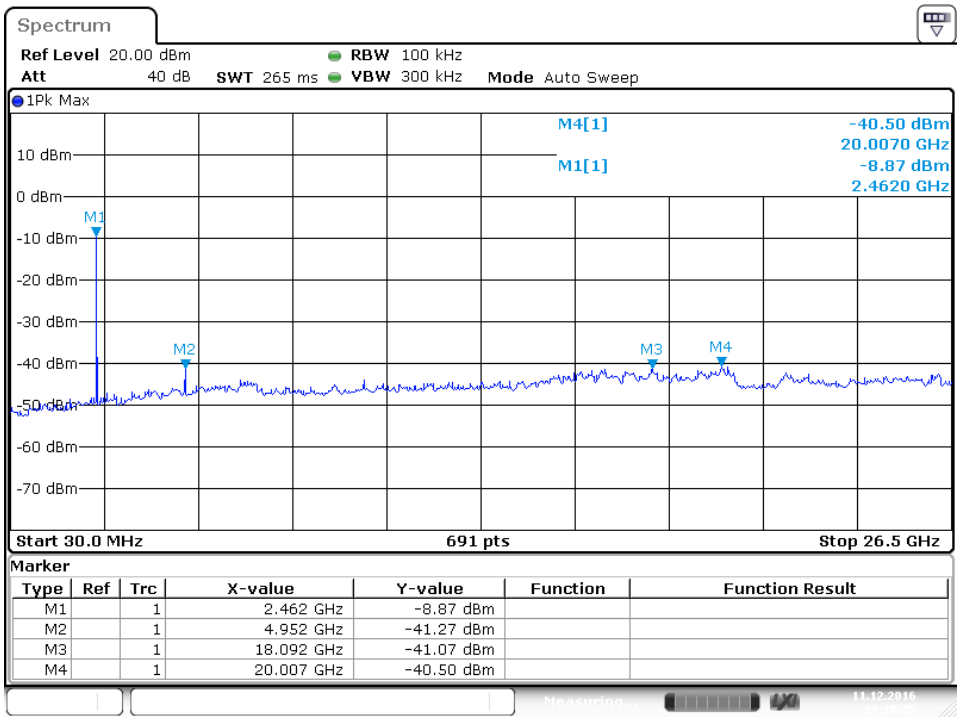
Date: 11.DEC.2016 17:16:38

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



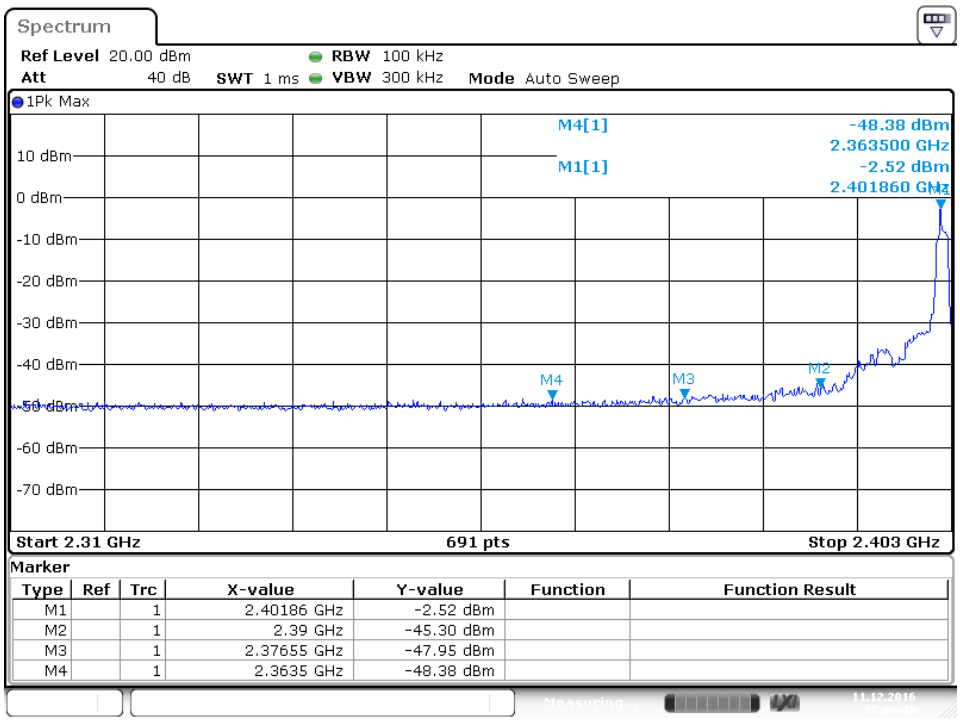
Date: 11.DEC.2016 17:15:11

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



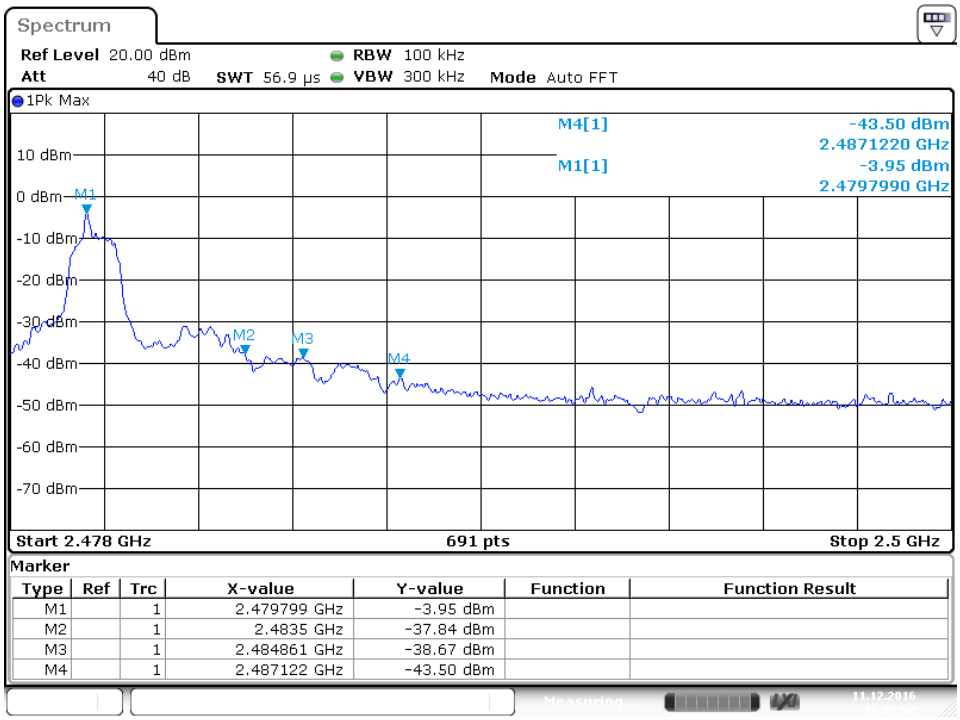
Date: 11.DEC.2016 17:18:26

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



Date: 11.DEC.2016 17:03:48

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



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.479799 GHz	-3.95 dBm		
M2		1	2.4835 GHz	-37.84 dBm		
M3		1	2.484861 GHz	-38.67 dBm		
M4		1	2.487122 GHz	-43.50 dBm		

Date: 11.DEC.2016 17:06:02

Figure 34: Test figure of Conducted emissions, Mode B, line live

ACCURATE TECHNOLOGY CO.,LTD

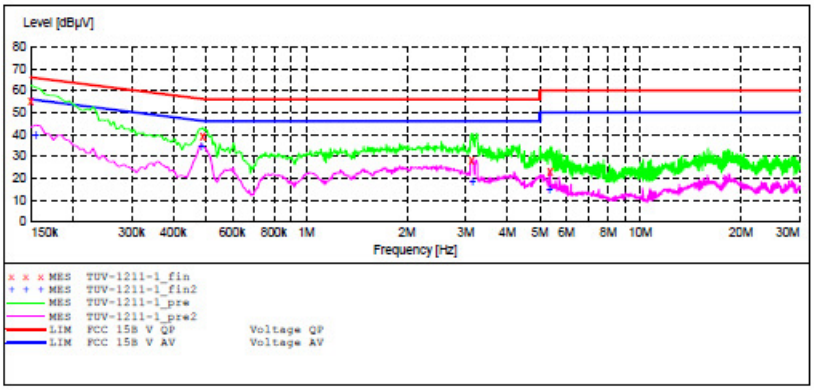
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:  B
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   L 120V/60Hz
Comment:              Mains Port
Start of Test:        12/11/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "TUV-1211-1_fin"

12/11/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	55.40	10.5	66	10.6	QP	L1	GND
0.490000	39.20	10.7	56	17.0	QP	L1	GND
3.130000	27.80	11.1	56	28.2	QP	L1	GND
5.380000	22.60	11.2	60	37.4	QP	L1	GND

MEASUREMENT RESULT: "TUV-1211-1_fin2"

12/11/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	39.90	10.5	56	15.8	AV	L1	GND
0.485000	34.90	10.7	46	11.4	AV	L1	GND
3.140000	18.80	11.1	46	27.2	AV	L1	GND
5.340000	15.20	11.2	50	34.8	AV	L1	GND

Figure 35: Test figure of Conducted emissions, Mode B, line neutral

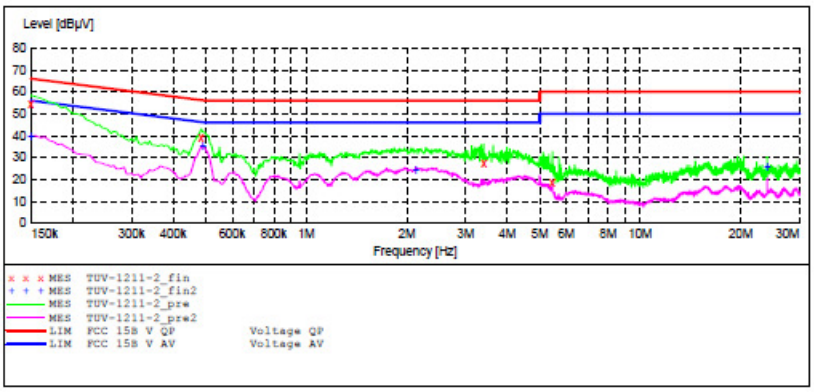
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                    Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:    B
Test Site:              1#Shielding Room
Operator:               LGWADE
Test Specification:     N 120V/60Hz
Comment:                Mains Port
Start of Test:          12/11/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
Short Description:                  _SUB_STD_VTERM2 1.70
Start      Stop       Step       Detector  Meas.     IF       Transducer
Frequency  Frequency  Width                Time      Bandw.
9.0 kHz    150.0 kHz  100.0 Hz   QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                Average
150.0 kHz  30.0 MHz   5.0 kHz    QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                Average
```



MEASUREMENT RESULT: "TUV-1211-2_fin"

12/11/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	54.20	10.5	66	11.8	QP	N	GND
0.485000	38.80	10.7	56	17.5	QP	N	GND
3.400000	27.10	11.1	56	28.9	QP	N	GND
5.460000	18.90	11.2	60	41.1	QP	N	GND

MEASUREMENT RESULT: "TUV-1211-2_fin2"

12/11/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	39.90	10.5	56	16.1	AV	N	GND
0.490000	35.40	10.7	46	10.8	AV	N	GND
2.130000	24.40	11.0	46	21.6	AV	N	GND
23.995000	26.10	11.5	50	23.9	AV	N	GND

Figure 36: Test figure of Conducted emissions, Mode C+D, line live

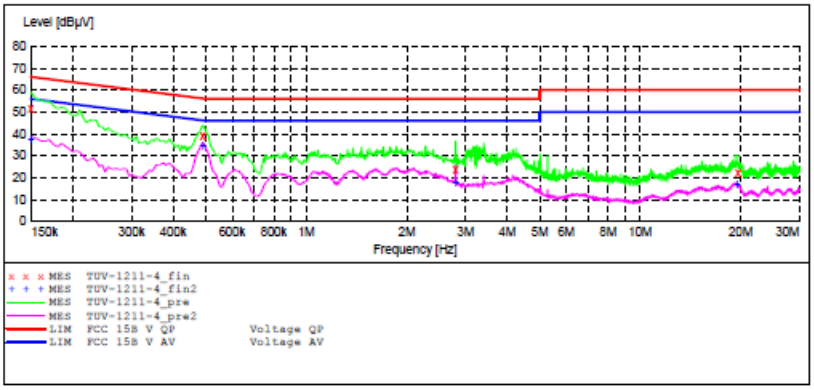
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:  C+D
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   L 120V/60Hz
Comment:              Mains Port
Start of Test:        12/11/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
Short Description:                _SUB_STD_VTERM2 1.70
Start      Stop       Step       Detector  Meas.     IF       Transducer
Frequency  Frequency  Width                Time      Bandw.
9.0 kHz    150.0 kHz  100.0 Hz   QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                Average
150.0 kHz  30.0 MHz   5.0 kHz    QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                Average
```



MEASUREMENT RESULT: "TUV-1211-4_fin"

12/11/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	51.80	10.5	66	14.2	QP	L1	GND
0.490000	38.70	10.7	56	17.5	QP	L1	GND
2.800000	23.90	11.0	56	32.1	QP	L1	GND
19.615000	22.30	11.4	60	37.7	QP	L1	GND

MEASUREMENT RESULT: "TUV-1211-4_fin2"

12/11/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	37.80	10.5	56	18.2	AV	L1	GND
0.490000	34.80	10.7	46	11.4	AV	L1	GND
2.800000	17.70	11.0	46	28.3	AV	L1	GND
19.435000	16.90	11.4	50	33.1	AV	L1	GND

Figure 37: Test figure of Conducted emissions, Mode C+D, line neutral

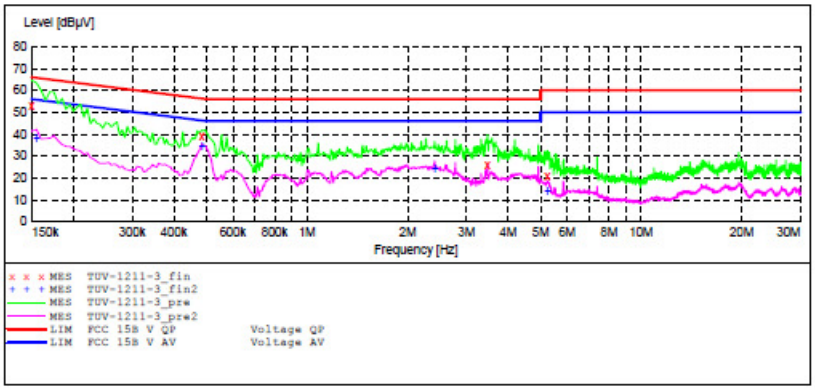
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                    Bluetooth Speaker M/N:BT1059
Manufacturer:
Operating Condition:    C+D
Test Site:              1#Shielding Room
Operator:               LGWADE
Test Specification:     N 120V/60Hz
Comment:                Mains Port
Start of Test:          12/11/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
Short Description:                  _SUB_STD_VTERM2 1.70
Start      Stop       Step       Detector  Meas.     IF       Transducer
Frequency  Frequency  Width                Time      Bandw.
9.0 kHz    150.0 kHz  100.0 Hz   QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                Average
150.0 kHz  30.0 MHz   5.0 kHz    QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                Average
```



MEASUREMENT RESULT: "TUV-1211-3_fin"

12/11/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	53.30	10.5	66	12.7	QP	N	GND
0.485000	38.70	10.7	56	17.6	QP	N	GND
3.470000	26.20	11.1	56	29.8	QP	N	GND
5.240000	21.00	11.2	60	39.0	QP	N	GND

MEASUREMENT RESULT: "TUV-1211-3_fin2"

12/11/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	38.40	10.5	56	17.3	AV	N	GND
0.485000	34.80	10.7	46	11.5	AV	N	GND
2.410000	24.20	11.0	46	21.8	AV	N	GND
5.240000	14.20	11.2	50	35.8	AV	N	GND

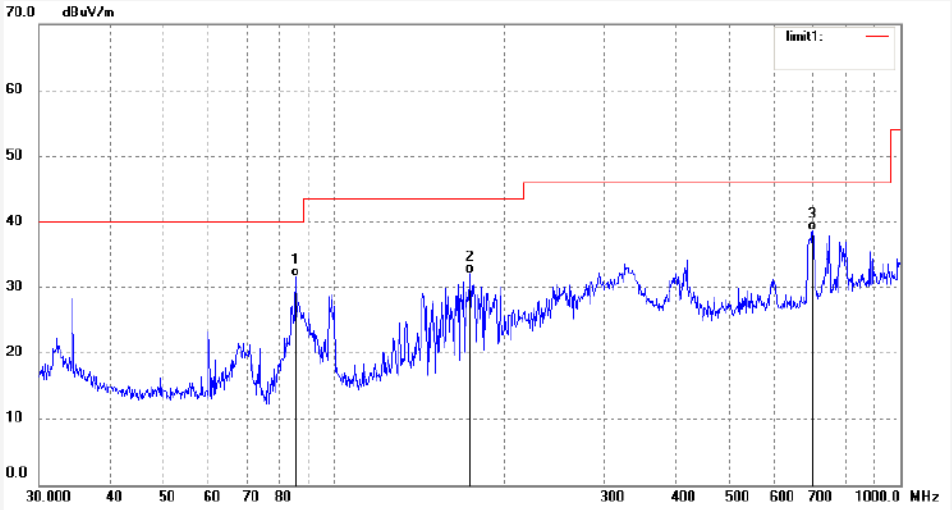
Figure 38: Test figure of Radiated emissions, Mode C+D, Below 1GHz, Horizontal

ATC®
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.: LGWADE #4645	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: C+D	Distance: 3m
Model: BT1059	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	85.2980	46.85	-15.32	31.53	40.00	-8.47	QP			
2	173.8135	45.62	-13.50	32.12	43.50	-11.38	QP			
3	699.3046	39.75	-1.08	38.67	46.00	-7.33	QP			

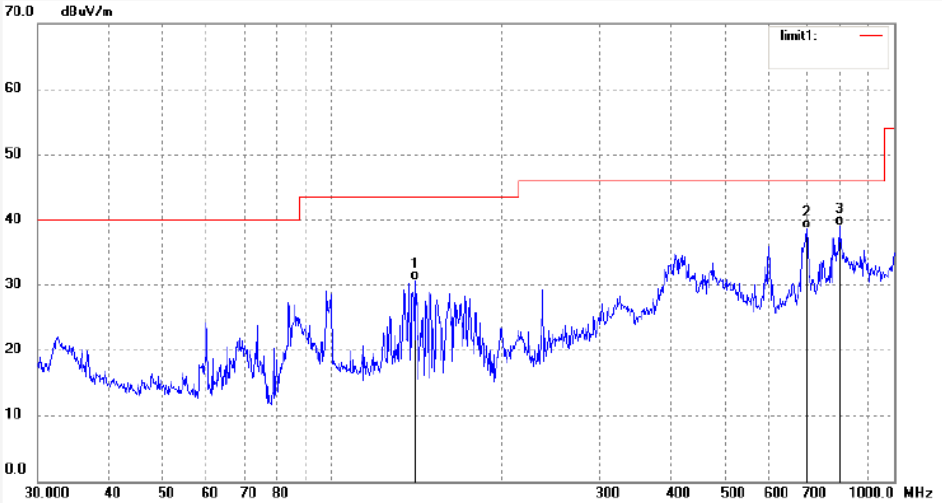
Figure 39: Test figure of Radiated emissions, Mode C+D, Below 1GHz, Vertical

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.: LGWADE #4646	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: C+D	Distance: 3m
Model: BT1059	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	140.8351	45.78	-15.13	30.65	43.50	-12.85	QP			
2	699.3046	39.62	-1.08	38.54	46.00	-7.46	QP			
3	798.9796	38.27	0.81	39.08	46.00	-6.92	QP			

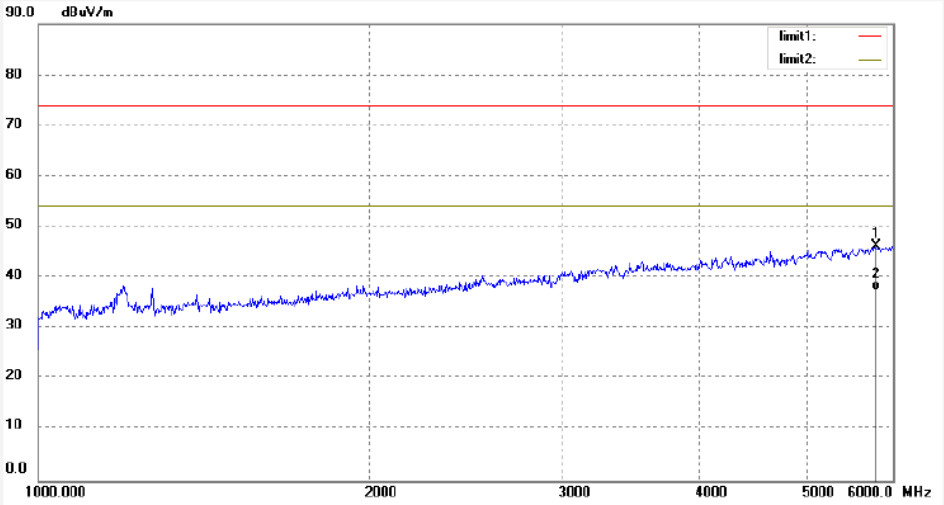
Figure 40: Test figure of Radiated emissions, Mode C+D, Above 1GHz, Horizontal

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

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

Job No.: LGWADE #4652	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: C+D	Distance: 3m
Model: BT1059	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5788.796	38.20	8.04	46.24	74.00	-27.76	peak			
2	5788.796	29.41	8.04	37.45	54.00	-16.55	AVG			

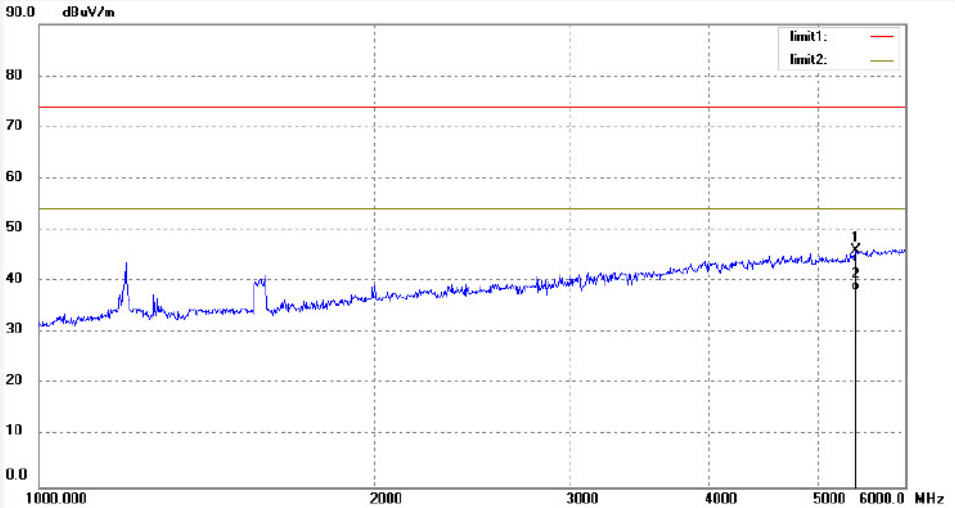
Figure 41: Test figure of Radiated emissions, Mode C+D, Above 1GHz, Vertical

ATC®
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.: LGWADE #4651	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/12/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Speaker	Engineer Signature: LGWADE
Mode: C+D	Distance: 3m
Model: BT1059	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5417.471	39.07	6.93	46.00	74.00	-28.00	peak			
2	5417.471	31.30	6.93	38.23	54.00	-15.77	AVG			