

Prüfbericht-Nr.: <i>Test Report No.:</i>	17058162 001	Auftrags-Nr.: <i>Order No.:</i>	164054840	Seite 1 von 197 <i>Page 1 of 197</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	21.01.2016		
Auftraggeber: <i>Client:</i>	Edifier International Limited, Room 2207-9, Tower Two, Lippo Centre 89 Queensway, Hong Kong				
Prüfgegenstand: <i>Test item:</i>	Active Speaker System				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	e235, Luna E (EDIFIER)				
Auftrags-Inhalt: <i>Order content:</i>	Type Test				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart B Section 15.107 FCC KDB Publication 447498 D01 v06 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015	CFR47 FCC Part 15: Subpart C Section 15.407 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-247 Issue 1 May 2015 ICES-003 Issue 6 January 2016			
Wareneingangsdatum: <i>Date of receipt:</i>	12.01.2016				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000305130-001, A000305130-002				
Prüfzeitraum: <i>Testing period:</i>	13.01.2016 - 29.01.2016				
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd. Shenzhen Academy of Metrology and Quality Inspection BTL Inc. (Dongguan)				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by: 15.04.2016 Owen Tian/Senior Project Manager	kontrolliert von / reviewed by: 15.04.2016 Winnie Hou/Technical Certicier				
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(pass) = entspricht o.g. Prüfgrundlage(n) F(fail) = 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(pass) = passed a.m. test specification(s) F(fail) = 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. <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>					
<small>v04</small>					

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.4 6dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100kHz BANDWIDTH

RESULT: Pass

5.1.6 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.7 SPURIOUS EMISSION

RESULT: Pass

5.1.8 FREQUENCY SEPARATION

RESULT: Pass

5.1.9 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.10 TIME OF OCCUPANCY

RESULT: Pass

5.1.11 PEAK OUTPUT POWER OF 5.8GHz

RESULT: Pass

5.1.12 26dB BANDWIDTH AND 99% BANDWIDTH OF 5.8GHz

RESULT: Pass

5.1.13 6dB BANDWIDTH OF 5.8GHz

RESULT: Pass

5.1.14 POWER SPECTRAL DENSITY OF 5.8GHz

RESULT: Pass

5.1.15 SPURIOUS EMISSION OF 5.8GHz

RESULT: Pass

5.1.16 CONDUCTED EMISSIONS

RESULT: Pass

5.1.17 RADIATED EMISSION

RESULT: Pass

1.1.1 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)
(Test site Industry Canada No.: 5077A-2)
F1, Bldg. A, Changyuan New Material Port
Keyuan Rd., Science & Industry Park, Nanshan
Shenzhen, P.R. China

Shenzhen Academy of Metrology and Quality Inspection (SMQ)
(FCC Registration No.: 979748)
(Test site Industry Canada No.: 144376)
NETC Building, No. 4 Tongfa Rd., Xili, Nanshan, Shenzhen, China

BTL Inc. (Dongguan)
(FCC Registration No.: 319330)
(Test site Industry Canada No.: 4428B-1)
Building C, No.3, Jinshagang 1st Road, Shixia, Dalang, Dongguan, Guangdong,
China

The tests at the test sites 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
Transmitter spurious emissions				
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
50 Coaxial Switch	Anritsu Corp	MP59B	620050647 4	2017-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2017-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2017-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2017-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2017-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2017-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2017-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2017-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2017-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	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
Voltage Probe	Schwarzbeck	TK9416	N/A	2017-01-09
RF Current Probe	Rohde & Schwarz	EZ-17	100048	2017-01-09
8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.2	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.3	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.14	2017-01-09
Transmitter spurious emissions & Receiver spurious emissions (SMQ) (for 26.5 - 40GHz)				
EMI Receiver	Rohde & Schwarz	ESCI3	SB9058/05	2016-05-02
EMI Receiver	Rohde & Schwarz	ESU40	SB8501/09	2016-05-14
Horn Antenna	Rohde & Schwarz	3160-10	SB8501/12	2016-05-14

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	< ± 0.60 dB
Radiated emission of transmitter, valid up to 40 GHz	< ± 4.42 dB
Conducted Emission	< ± 2.23 dB
Radiated Emission	< ± 4.42 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, Shenzhen Academy of Metrology and Quality Inspection test facility located at NETC Building, No. 4 Tongfa Rd., Xili, Nanshan, Shenzhen, China and BTL Inc. (Dongguan) test facility located at Building C, No.3, Jinshagang 1st Road, Shixia, Dalang, Dongguan, Guangdong, China are 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 EUTs are multimedia speaker with 5.8GHz wireless & Bluetooth function used for audio entertainment in house or similar environment.

This test report is for approval of EUT base on the certificated 5.8GHz wireless module, for the details of wireless module, refer to FCC ID: Z9G-EDF24 (test report: SZEM150600342201 & SZEM150600342202), and IC: 10004A-EDF24 (test report: SZEM150600342301 & SZEM150600342302).

Two models are identical except the model name.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of 5.8GHz wireless

Technical Specification	Value
Kind of Equipment	Active Speaker system
Type Designation	e235, Luna E
Channel Number	3
Operating Frequency	5736MHz, 5762MHz, 5814MHz
Channel Bandwidth	22MHz
Extreme Temperature Range	-10~+45°C
Operation Voltage	DC 18V for host speaker (via AC/DC adapter) AC 100-240V, 50/60Hz for Active Subwoofer
Modulation	QPSK
Antenna Gain	3.2dBi

Table 4: Technical Specification of Bluetooth (BDR & EDR mode)

Technical Specification	Value
Kind of Equipment	Active Speaker system
Type Designation	e235, Luna E
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-10~+45°C
Operation Voltage	DC 18V for host speaker (via AC/DC adapter) AC 100-240V, 50/60Hz for active subwoofer
Modulation	FHSS (GFSK, 8DPSK, π/4DQPSK)
Bluetooth version	4.0, Dual Mode
Antenna Gain	2.5dBi

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Table 5: RF channel and frequency of Bluetooth (BDR & EDR mode)

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

Table 6: Technical Specification of Bluetooth (Low Energy mode)

Technical Specification	Value
Kind of Equipment	Active Speaker system
Type Designation	e235, Luna E
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	-10~+45°C
Operation Voltage	DC 18V for host speaker (via AC/DC adapter) AC 100-240V, 50/60Hz for active subwoofer
Modulation	GFSK
Bluetooth version	4.0, Dual Mode
Antenna Gain	2.5dBi

Table 7: RF channel and frequency of Bluetooth (Low Energy mode)

RF Channel	Frequency (MHz)						
0	2402.00	11	2424.00	22	2446.00	33	2468.00

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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
 - 1. Bluetooth mode (BDR & EDR mode)
 - a. Transmitting
 - b. Receiving
 - 2. Bluetooth mode (Low Energy mode)
 - a. Transmitting
 - b. Receiving
 - 3. 5.8GHz wireless mode
 - a. Transmitting
 - b. Receiving
- B. AUX in
- C. Optical in
- D. Standby
- 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
- 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 & ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
iPhone6	Apple	MG4J2 CH/A	F17NTK2QG5MV
Notebook PC	Lenovo	ThinkPad X240	---
DVD player	KENUO	966T1	---

The EUT was tested with following cables:

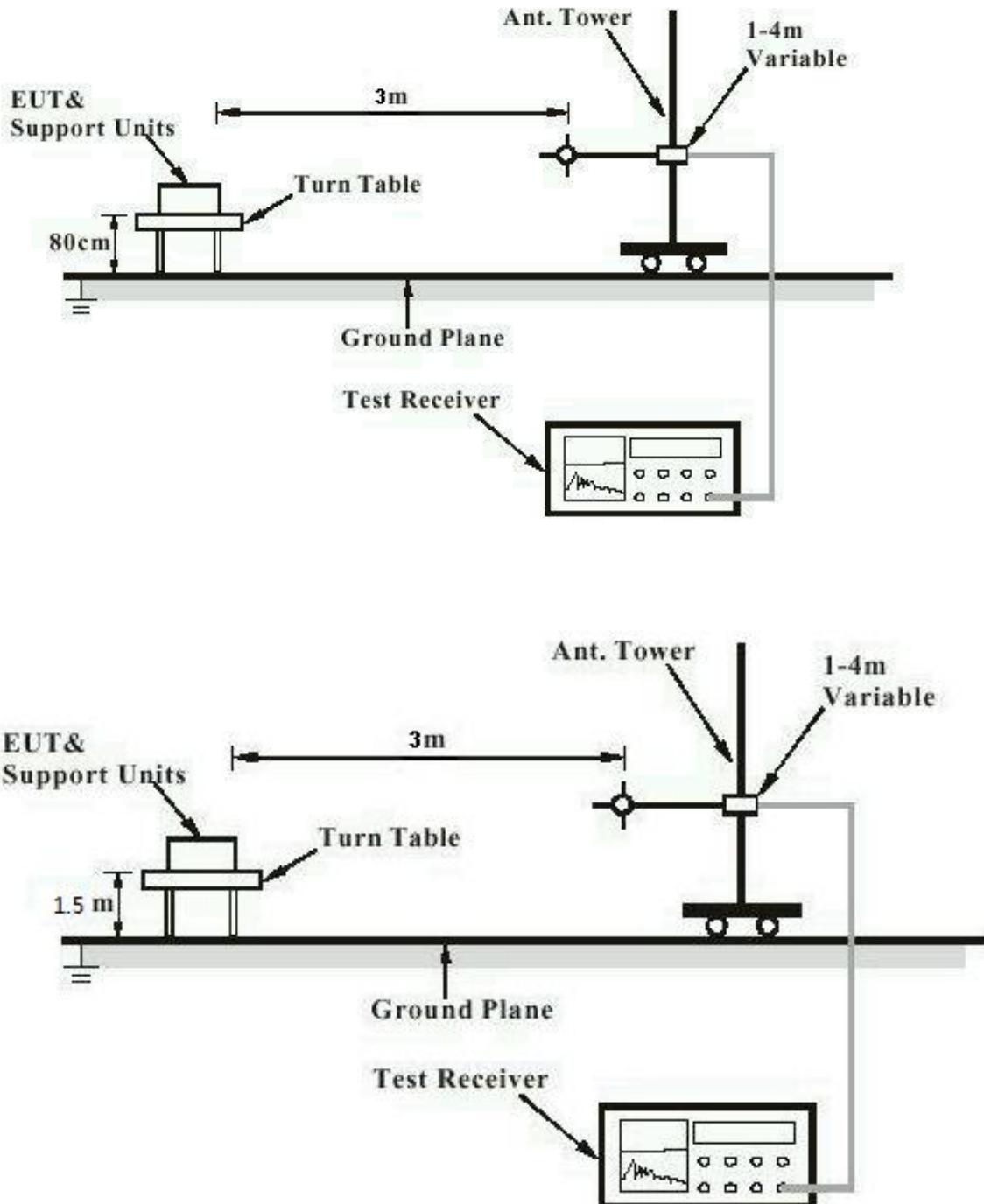
Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
AC Mains of Subwoofer	2 cores, non-shielded port, 3m	AC Power Input
AC Mains of AC/DC adapter	2 cores, non-shielded port, 3m	AC Power Input
AUX input	2 cores, non-shielded port, 3m	Audio Input
Optical input	---	Audio Input

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



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Diagram of Measurement Equipment Configuration for Conduction Measurement

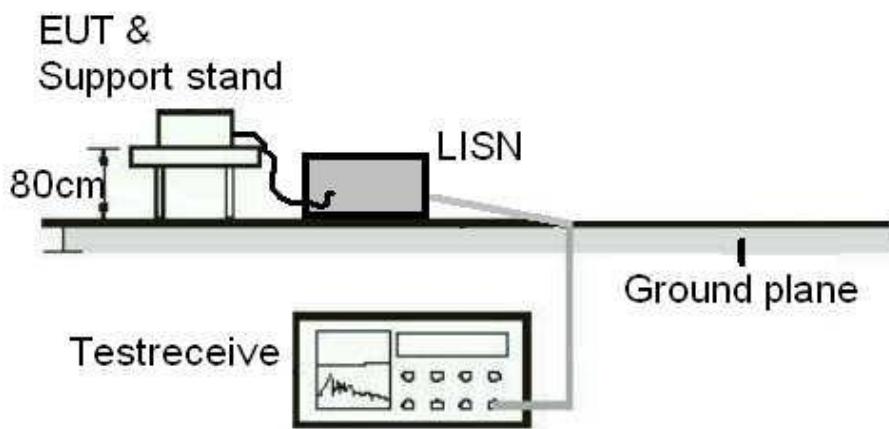
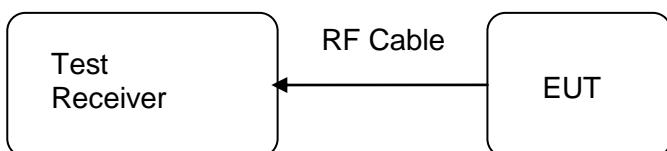


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

Test standard	:	Part 15.203 RSS-Gen Clause 8.3
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 2.5dBi for Bluetooth, 3.2dBi for 5.8GHz wireless, 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.

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5.1.2 Peak Output Power

RESULT:
Pass

Test date	:	2016-01-15
Test standard	:	FCC Part 15.247(b)(1) FCC Part 15.247(b)(3) RSS-247 clause 5.4(2) RSS-247 clause 5.4(4)
Basic standard	:	ANSI C63.10: 2013 Clause 9.1 of KDB 558074 v03r01
Limit	:	125mW, 1W
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a, A.2.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 8: Test result of Peak Output Power of Bluetooth (BDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	0.80	21
Middle Channel	2441	3.16	21
High Channel	2480	3.31	21

Table 9: Test result of Peak Output Power of Bluetooth (EDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	-0.53	21
Middle Channel	2441	2.14	21
High Channel	2480	2.23	21

Table 10: Test result of Peak Output Power of Bluetooth (Low Energy mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	2.44	30
Middle Channel	2440	3.84	30
High Channel	2480	4.02	30

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5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT:
Pass

Date of testing	:	2016-01-15
Test standard	:	FCC Part 15.247(a)(1) RSS-210 clause 5.1(2) RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013 Clause 8 of KDB 558074 v03r01
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 11: Test result of 20dB & 99% Bandwidth of BDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.9205	0.9334
Mid Channel	2441	0.9248	0.9161
High Channel	2480	0.9421	0.9247

Table 12: Test result of 20dB & 99% Bandwidth of EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.2113	1.1939
Mid Channel	2441	1.2070	1.1939
High Channel	2480	1.2070	1.1896

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5.1.4 6dB Bandwidth and 99% Bandwidth

RESULT:
Pass

Date of testing	:	2016-01-15
Test standard	:	FCC Part 15.247(a)(2) RSS-247 clause 5.2(1) RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013 Clause 8 of KDB 558074 v03r01
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.2.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 13: Test result of 6dB & 99% Bandwidth of Bluetooth, Low Energy mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit of 6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.6859	≥0.5	1.0376
Mid Channel	2440	0.6773	≥0.5	1.0333
High Channel	2480	0.6817	≥0.5	1.0333

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5.1.5 Conducted Spurious Emissions measured in 100kHz Bandwidth

RESULT:

Pass

Date of testing	:	2016-01-15
Test standard	:	FCC part 15.247(d) RSS-247 clause 5.5
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);
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

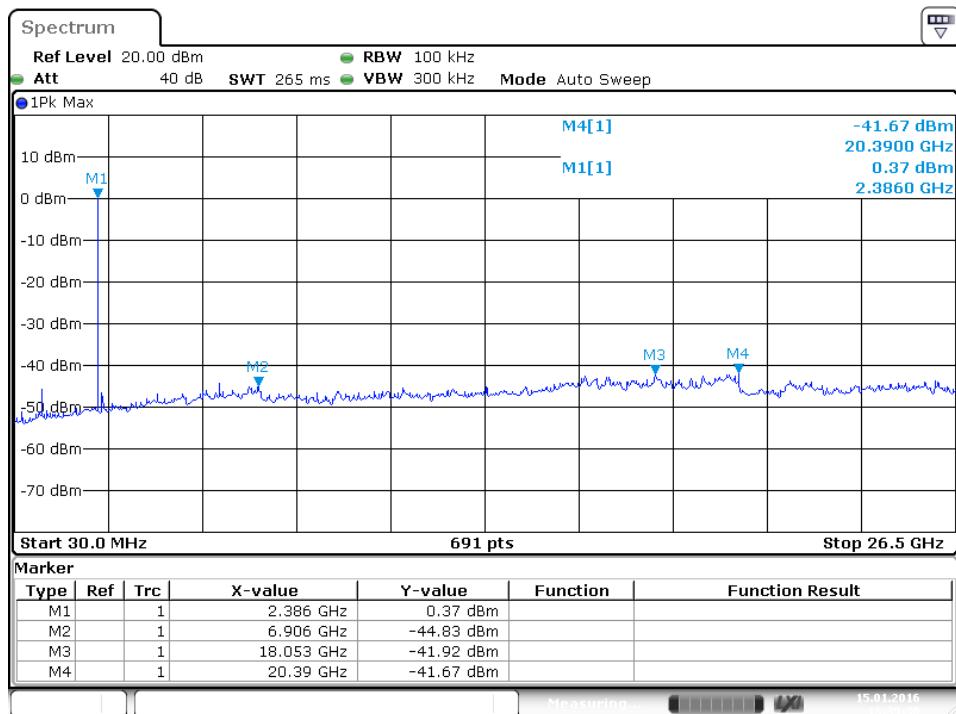
For details refer to following test plot.

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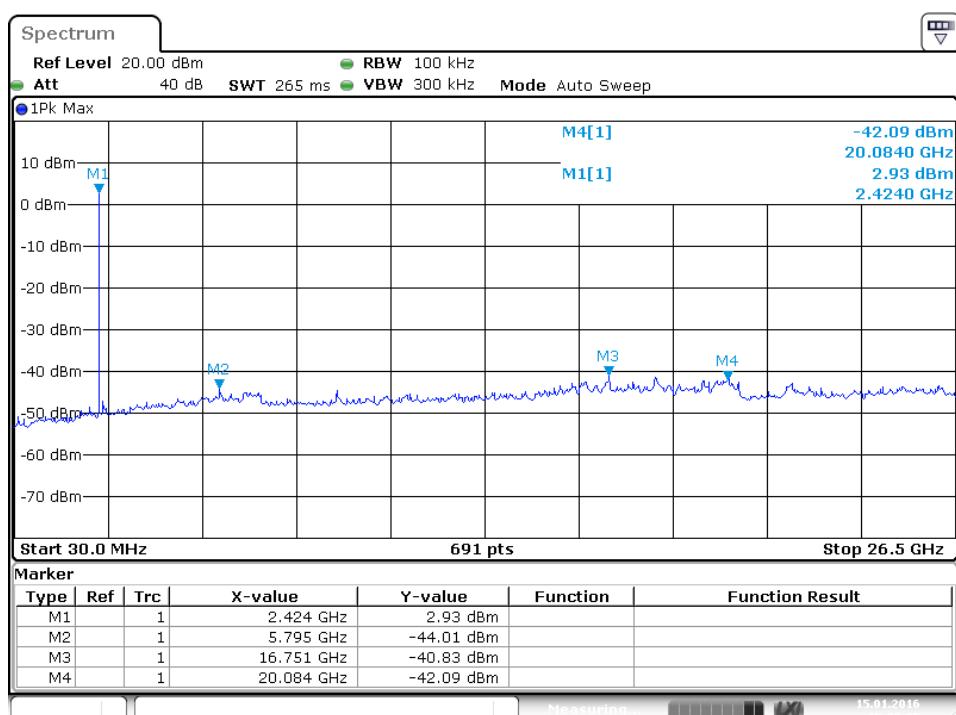
**Test Plot of Conducted spurious emissions measured in
100kHz Bandwidth of BDR mode**

Low Channel



Date: 15.JAN.2016 15:39:30

Middle Channel



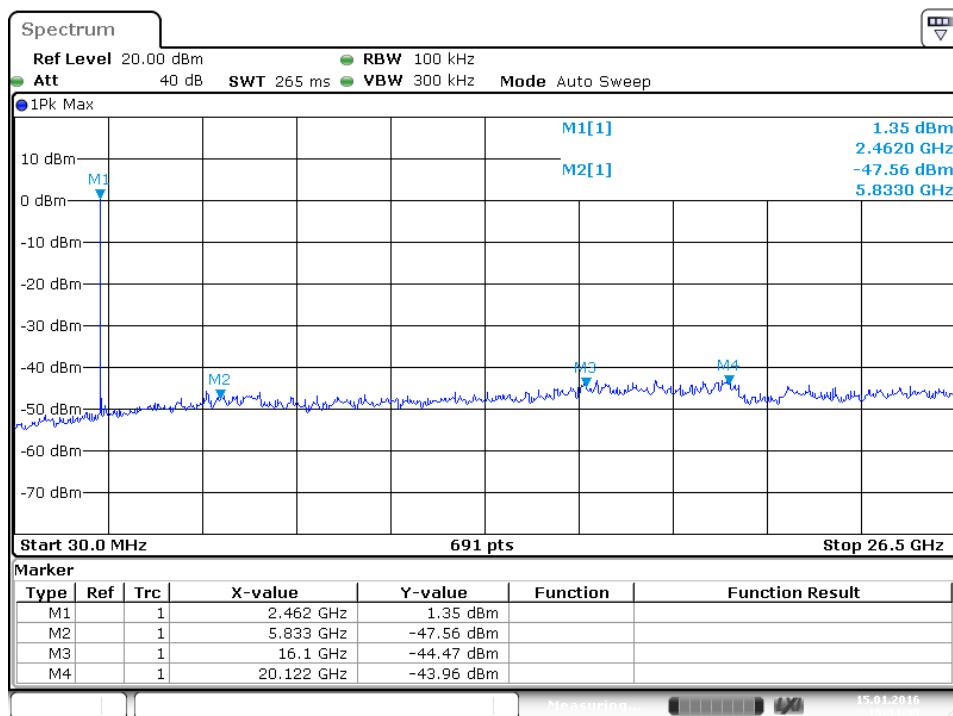
Date: 15.JAN.2016 15:38:05

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High Channel



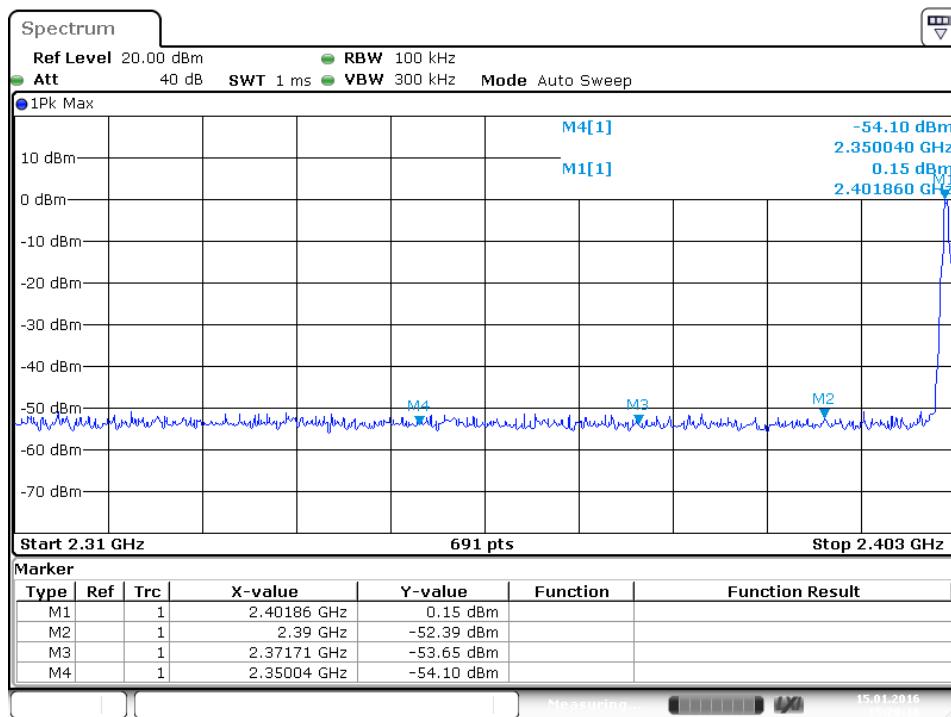
Date: 15.JAN.2016 15:34:36

Prüfbericht - Nr.: 17058162 001

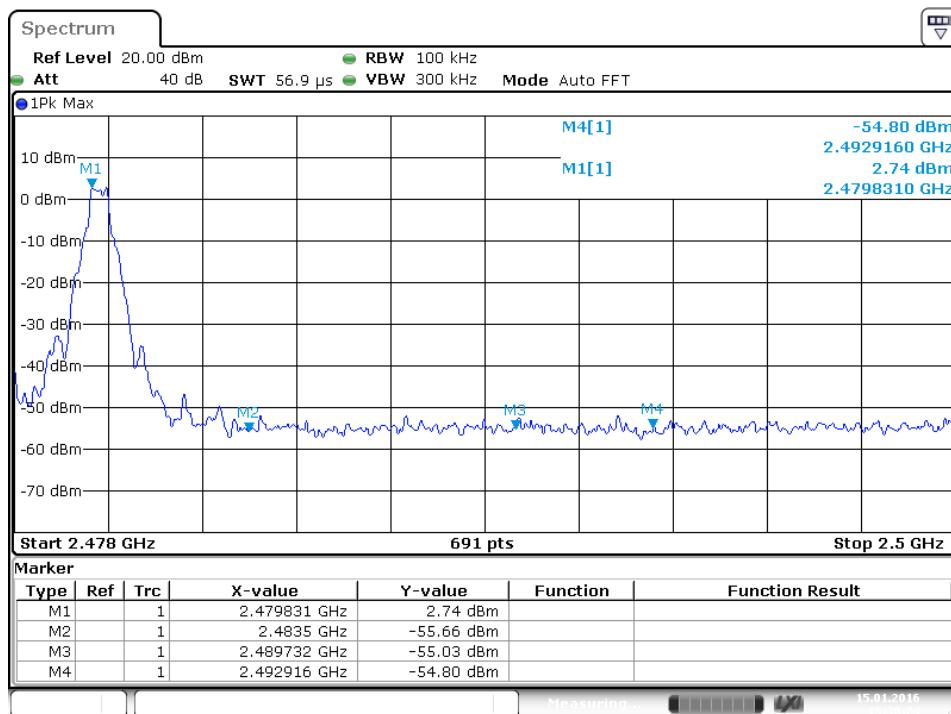
Test Report No.

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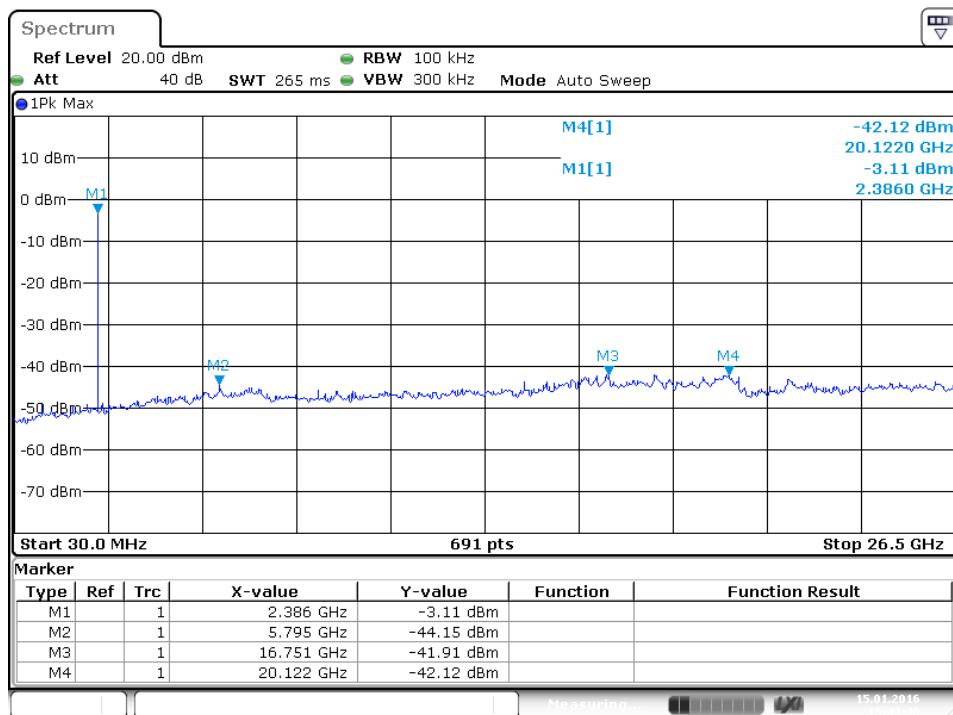
Band Edge



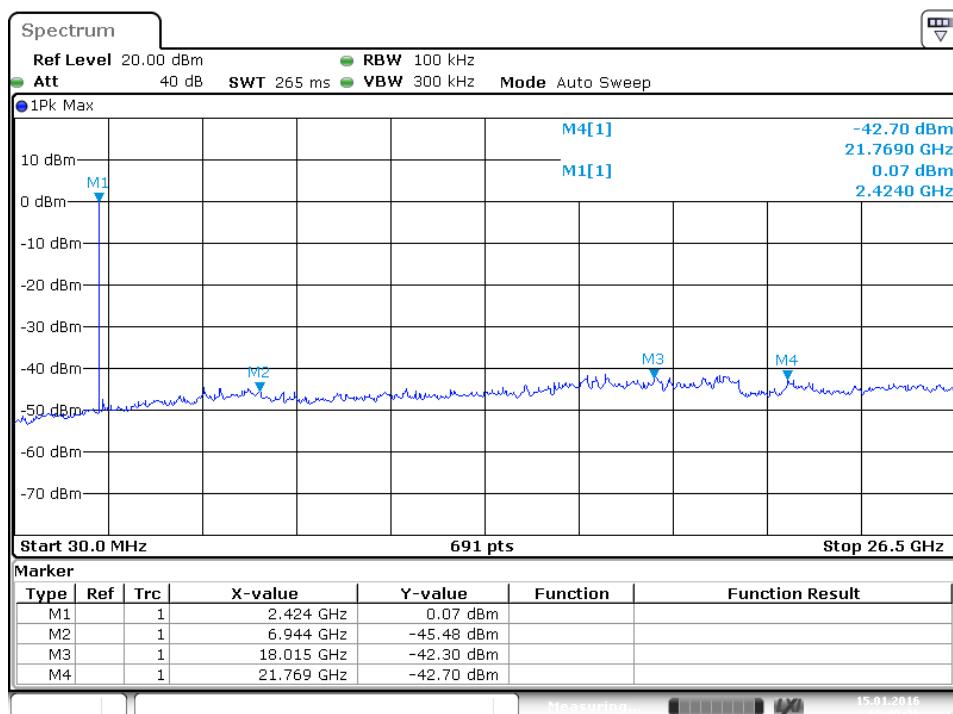
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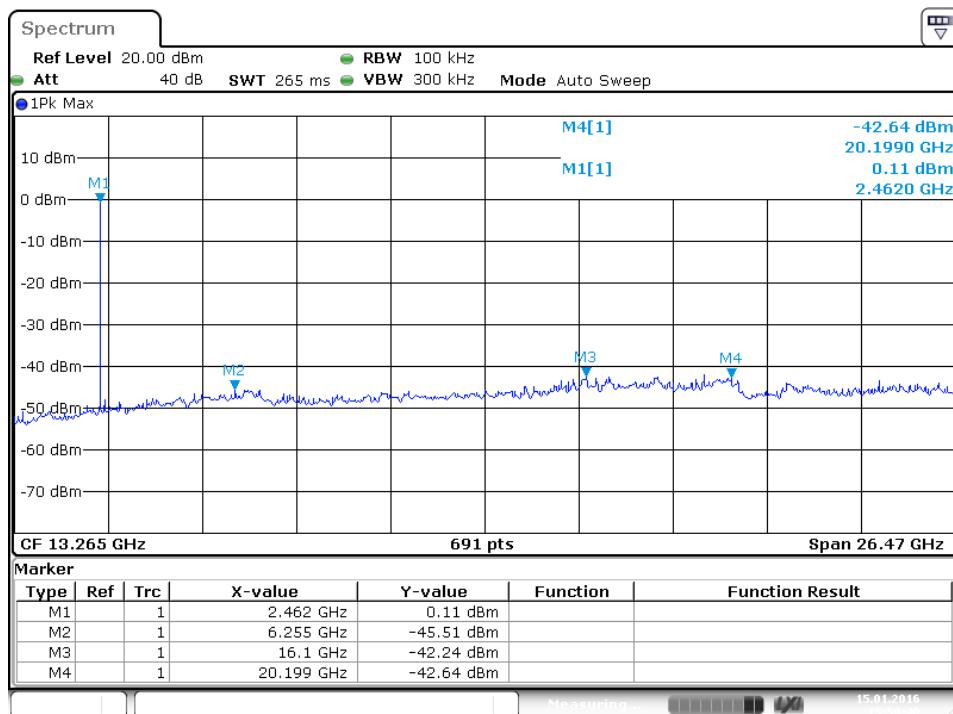
Date: 15.JAN.2016 15:30:24

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Page 22 of 197
**Test Plot of Conducted spurious emissions measured in
100kHz Bandwidth of EDR mode**
Low Channel


Date: 15.JAN.2016 15:43:41

Middle Channel


Date: 15.JAN.2016 15:49:27

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High Channel


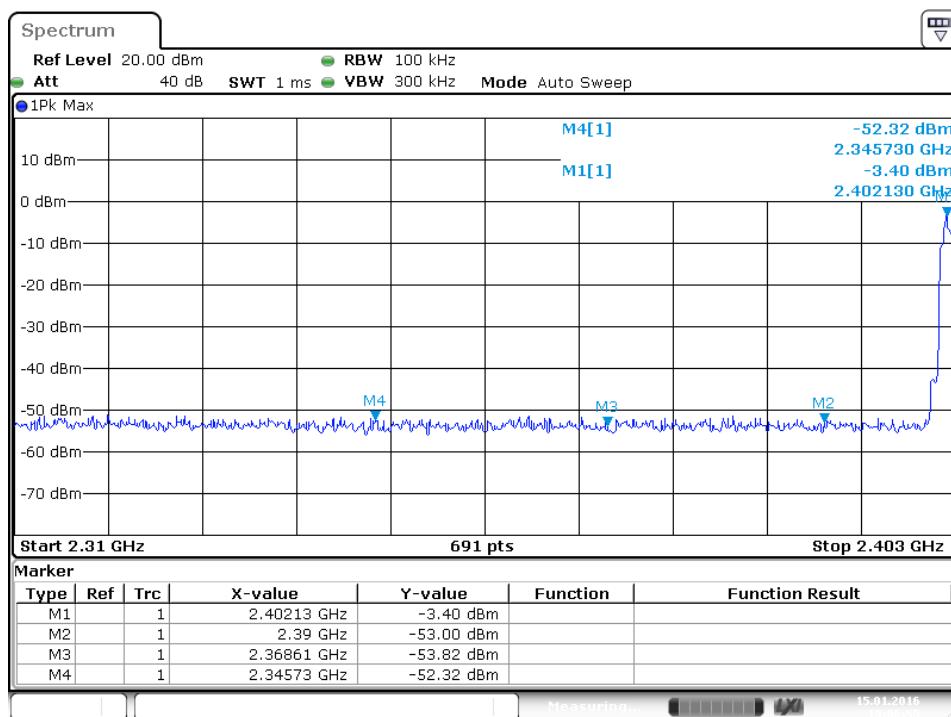
Date: 15.JAN.2016 15:50:41

Prüfbericht - Nr.: 17058162 001

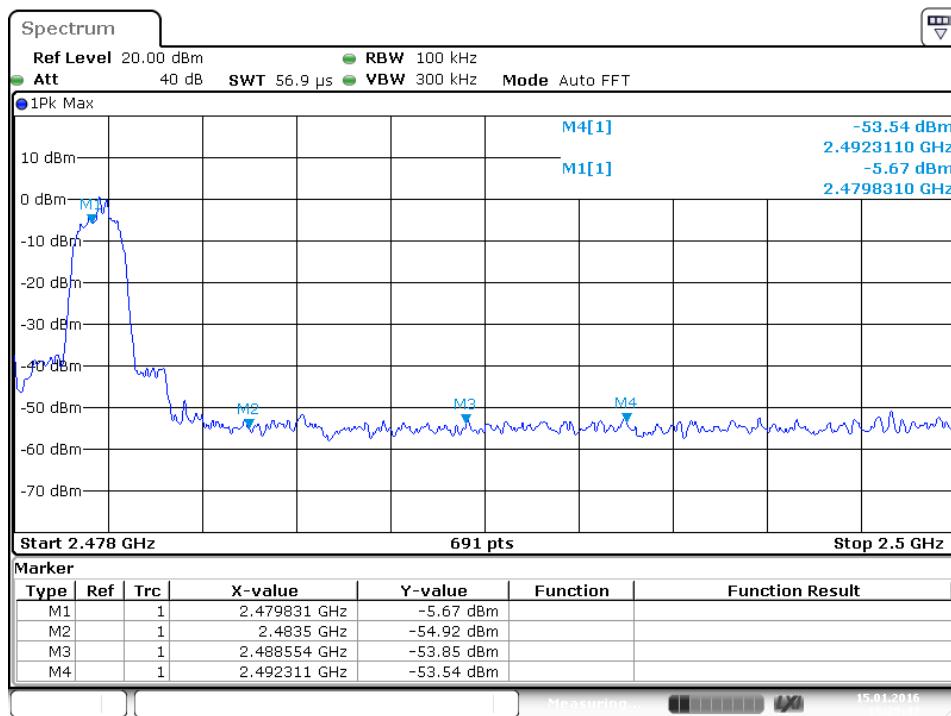
Test Report No.

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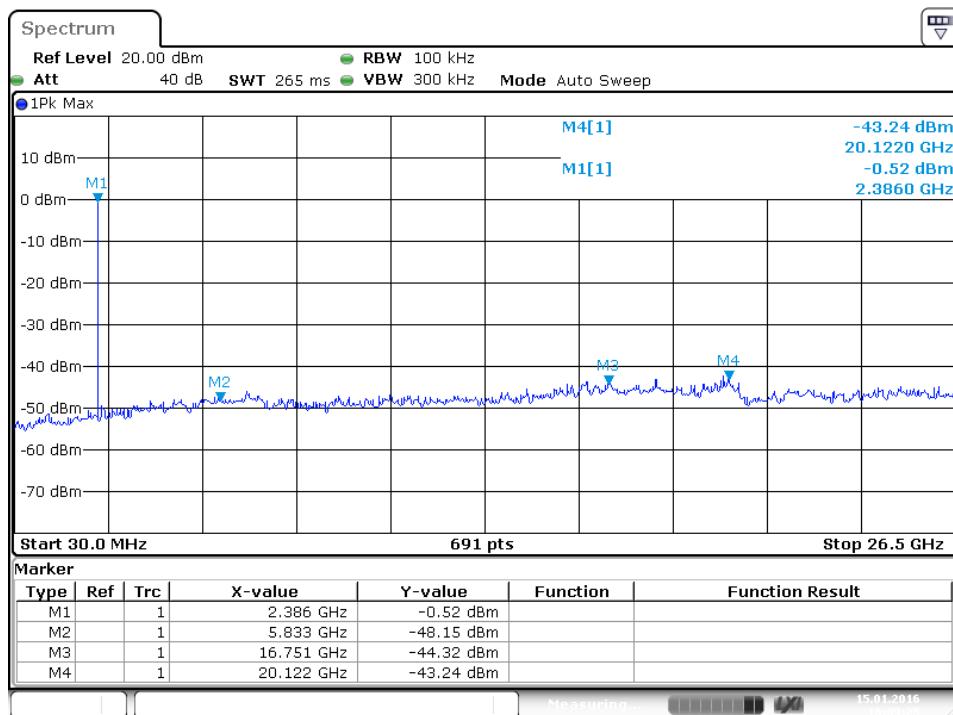
Band Edge



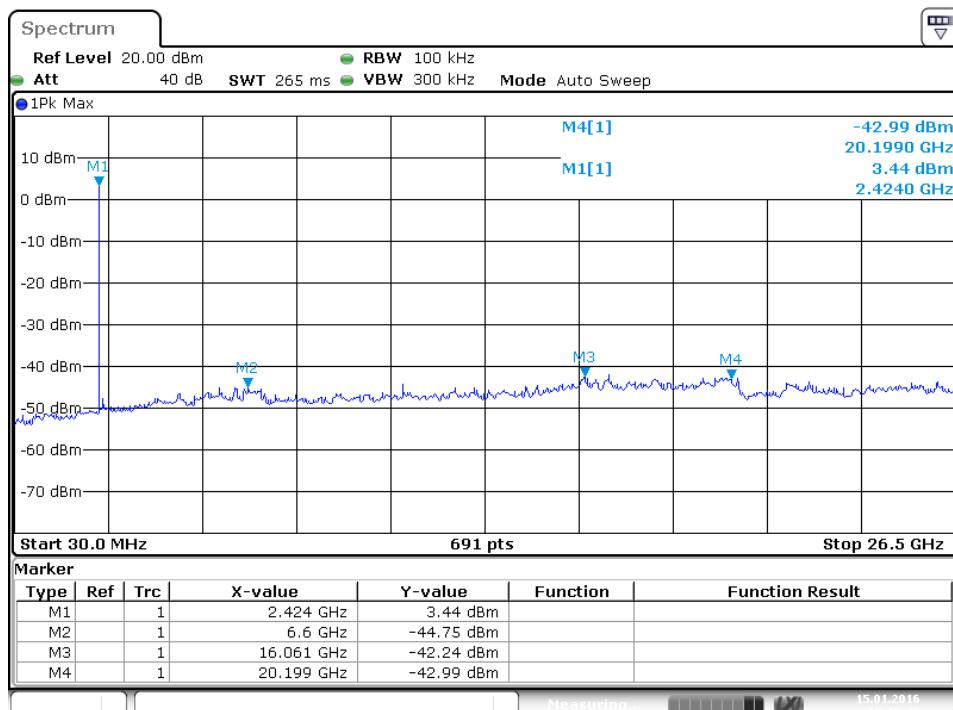
Date: 15.JAN.2016 15:06:56



Date: 15.JAN.2016 15:25:43

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**Test Plot of Conducted spurious emissions measured in
100kHz Bandwidth of Low Energy mode**
Low Channel


Date: 15.JAN.2016 18:09:25

Middle Channel


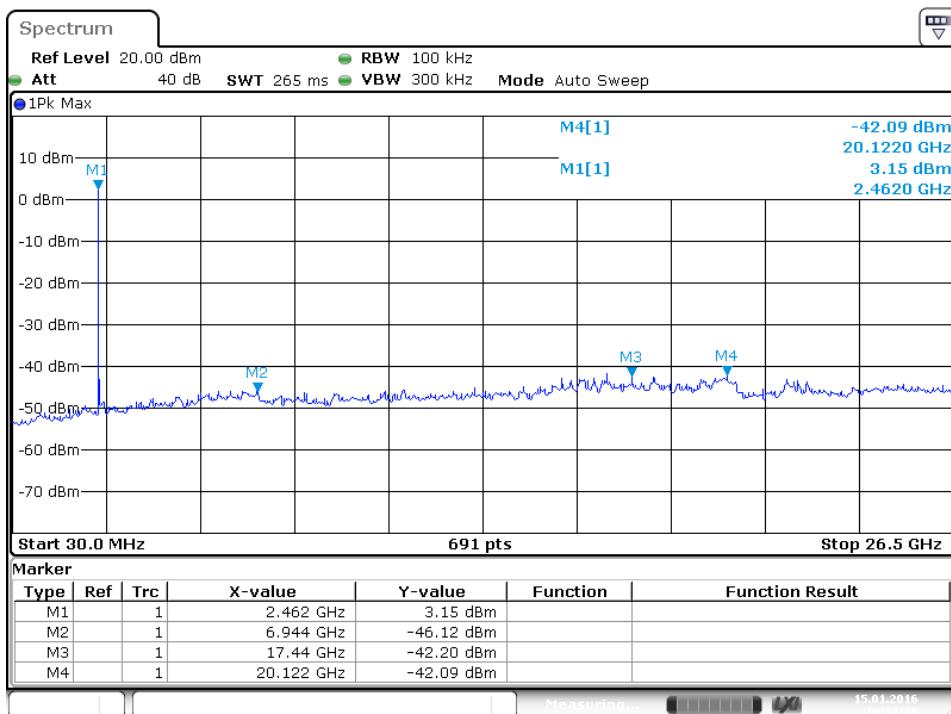
Date: 15.JAN.2016 18:10:41

Prüfbericht - Nr.: 17058162 001

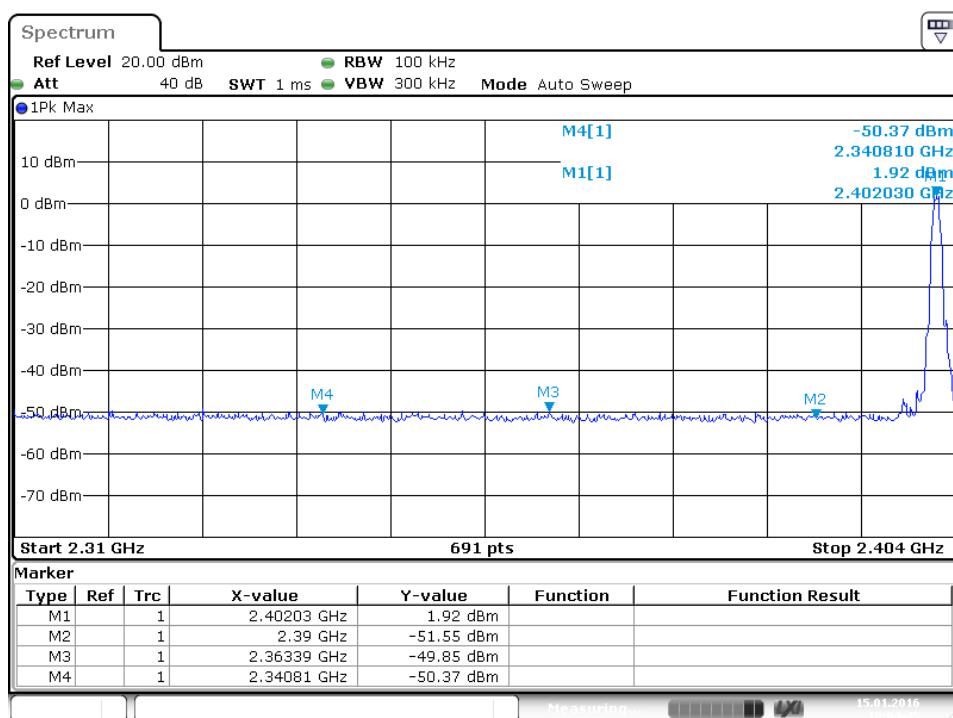
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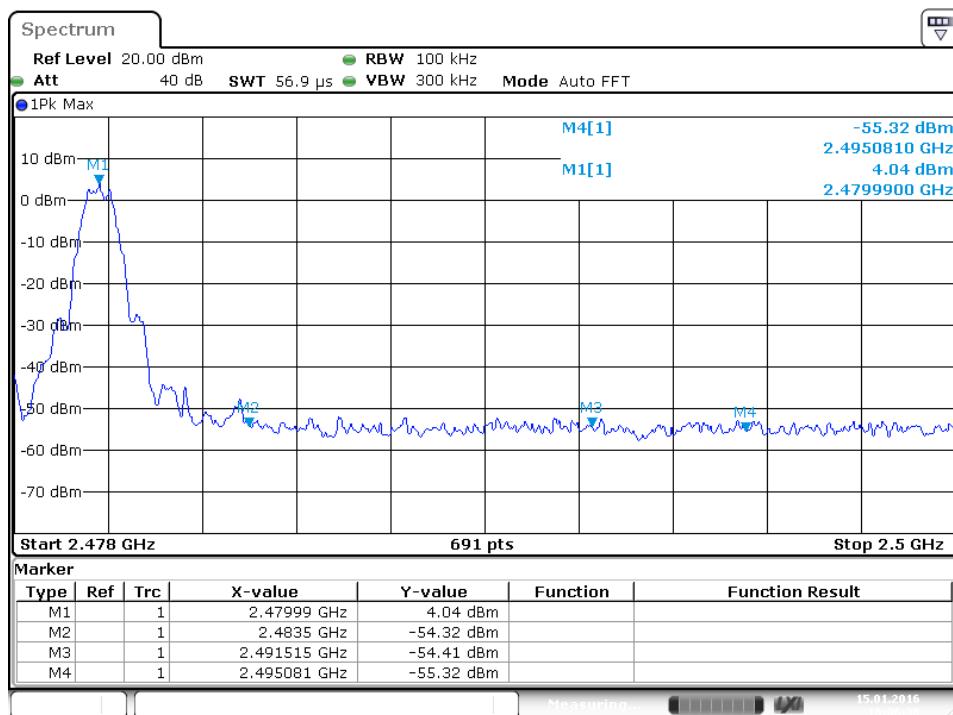
High Channel



Date: 15.JAN.2016 18:11:38

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Band Edge


Date: 15.JAN.2016 18:04:45



Date: 15.JAN.2016 18:06:38

5.1.6 Power spectral density

RESULT:
Pass

Date of testing	:	2016-01-15
Test standard	:	FCC part 15.247(e) RSS-247 clause 5.2(2)
Basic standard	:	ANSI C63.10: 2013 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.2.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 14: Test result of power spectral density:

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth Low Energy mode	2402	-13.32	8	Pass
	2440	-11.80	8	Pass
	2480	-11.54	8	Pass

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5.1.7 Spurious Emission

RESULT:

Pass

Date of testing	:	2016-01-29
Test standard	:	FCC part 15.247(d) RSS-Gen
Basic standard	:	ANSI C63.10: 2013 Clause 11 of KDB 558074 v03r01
Limits	:	FCC part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

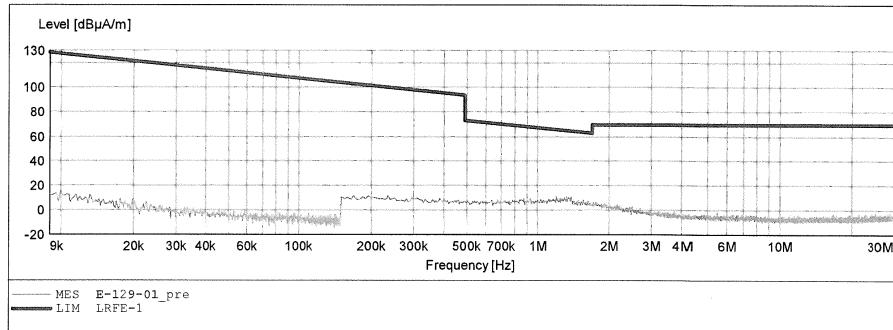
For details refer to following test plot.

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Test Plot of Spurious Emission of Bluetooth 3.0
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Short Description:		SUB_STD_VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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

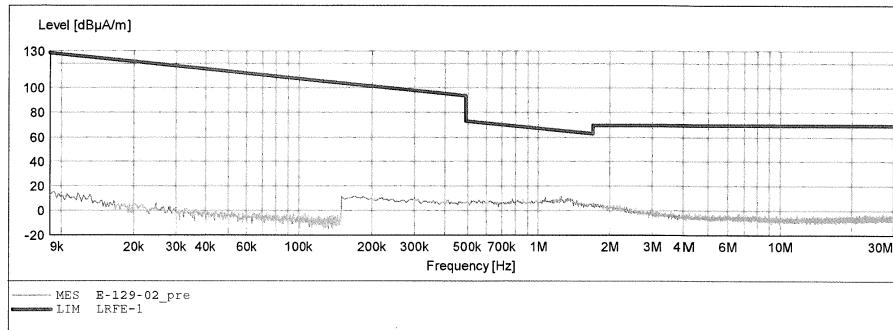


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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	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

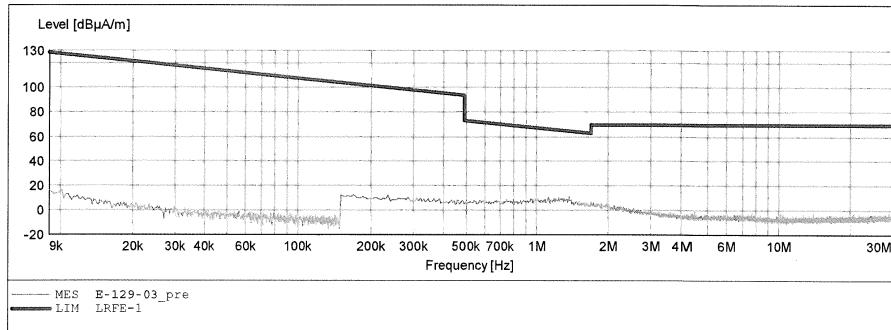


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Test Report No.
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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2016-1-29 /

SCAN TABLE: "LRFE Fin"

Short Description:		SUB_STD_VTERM2 1.70			IF	Transducer
Start Frequency	Stop Frequency	Step Width	Detector	Meas.		
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

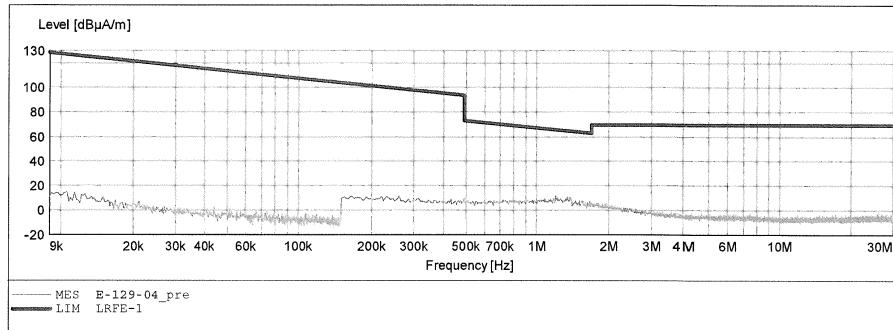


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Test Report No.
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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	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

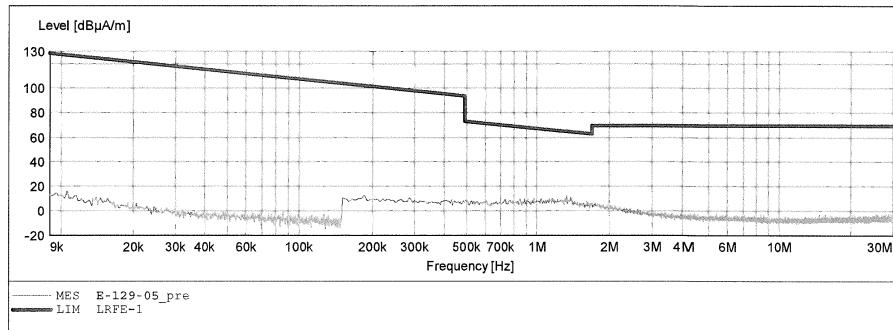


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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2016-1-29 /

SCAN TABLE: "LRFE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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

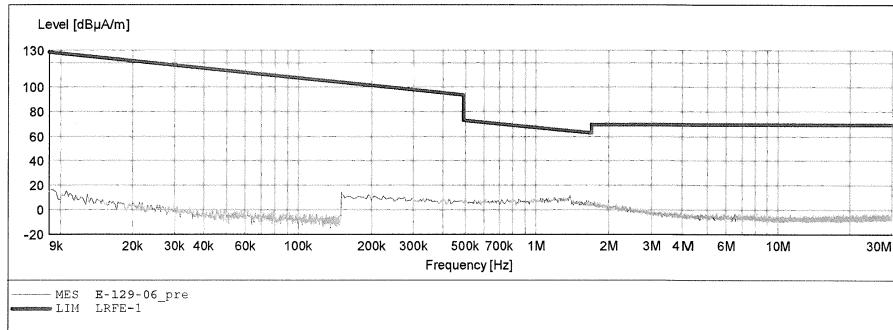


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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2016-1-29 /

SCAN TABLE: "LRFE Fin"

Short Description:		SUB_STD_VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	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

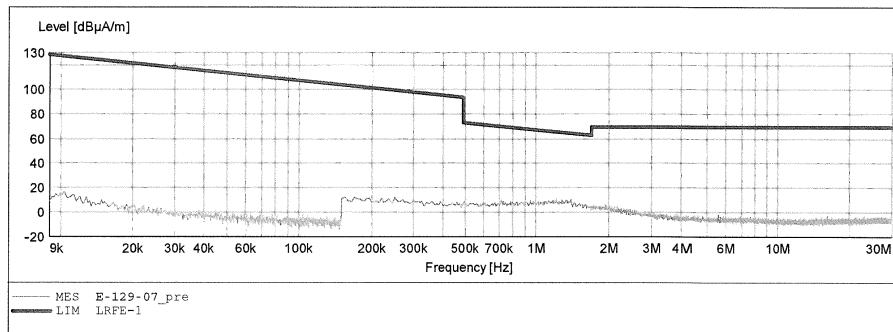


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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2016-1-29 /

SCAN TABLE: "LRFE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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

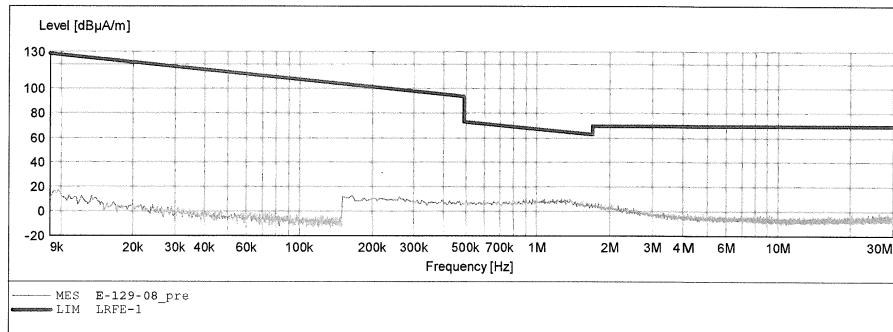


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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2016-1-29 /

SCAN TABLE: "LRFE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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

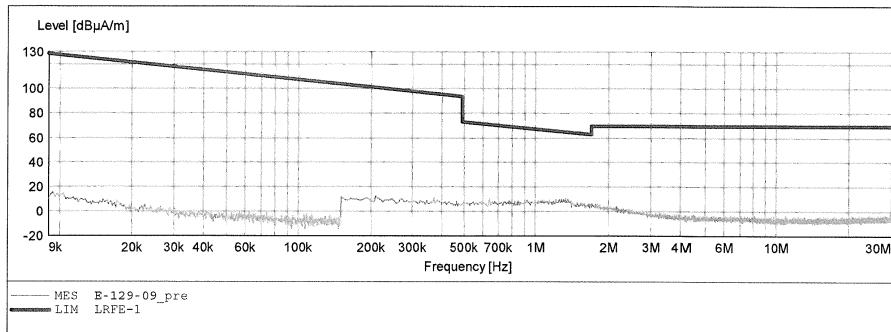


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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

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



Prüfbericht - Nr.: 17058162 001

Test Report No.

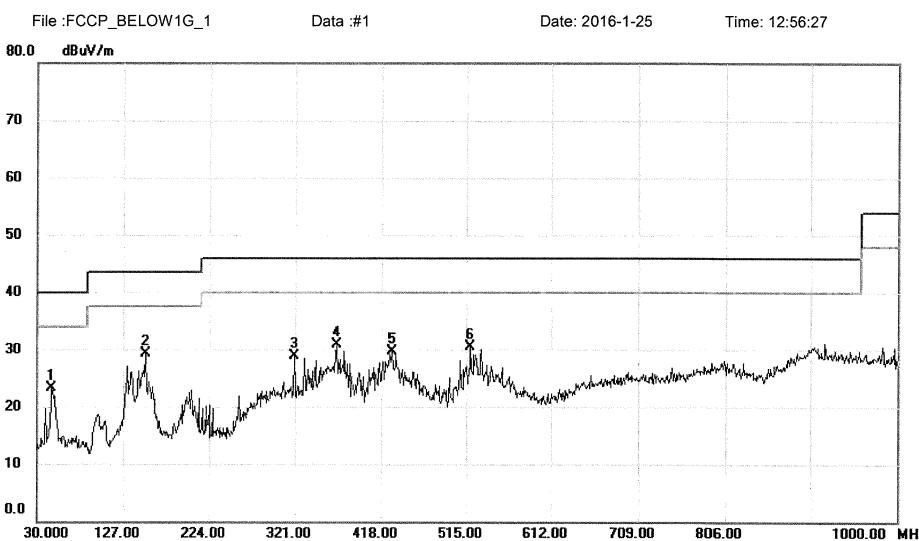
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No.3,JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03	Polarization: Horizontal	Temperature: 22 (C)
Limit: FCC Class B 3m Radiation	Power: AC 120V/60Hz	Humidity: 56 %
EUT:	Distance: 3m	
M/N: E235	Mode: TX_1M_2402	
Note: 3.0		

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dB			
1		46.4900	36.56	-13.32	23.24	40.00	-16.76	peak	
2	*	152.2200	42.10	-12.88	29.22	43.50	-14.28	peak	
3		320.0300	39.79	-10.84	28.95	46.00	-17.05	peak	
4		368.5300	41.49	-10.59	30.90	46.00	-15.10	peak	
5		430.6100	38.22	-8.54	29.68	46.00	-16.32	peak	
6		519.8500	38.56	-8.06	30.50	46.00	-15.50	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

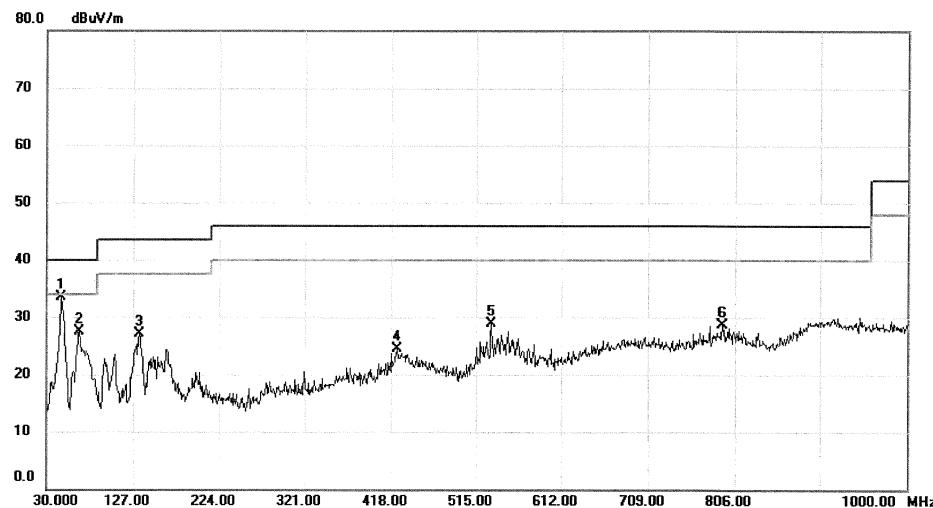
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No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03 Polarization: *Vertical* Temperature: 22 (C)
 Limit: FCC Class B 3m Radiation Power: AC 120V/60Hz Humidity: 56 %
 EUT: Distance: 3m
 M/N: E235 Mode: TX_1M_2402
 Note: 3.0

Radiated Emission Measurement

File :FCCP_BELOW1G_1 Data :#2 Date: 2016-1-25 Time: 12:57:43



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	46.4900	46.77	-13.32	33.45	40.00	-6.55	peak
2		66.8600	42.76	-15.35	27.41	40.00	-12.59	peak
3		133.7900	40.48	-13.45	27.03	43.50	-16.47	peak
4		424.7900	33.23	-8.70	24.53	46.00	-21.47	peak
5		532.4600	35.70	-6.84	28.86	46.00	-17.14	peak
6		792.4200	31.19	-2.46	28.73	46.00	-17.27	peak

*:Maximum data x:Over limit !:over margin

(Reference Only)

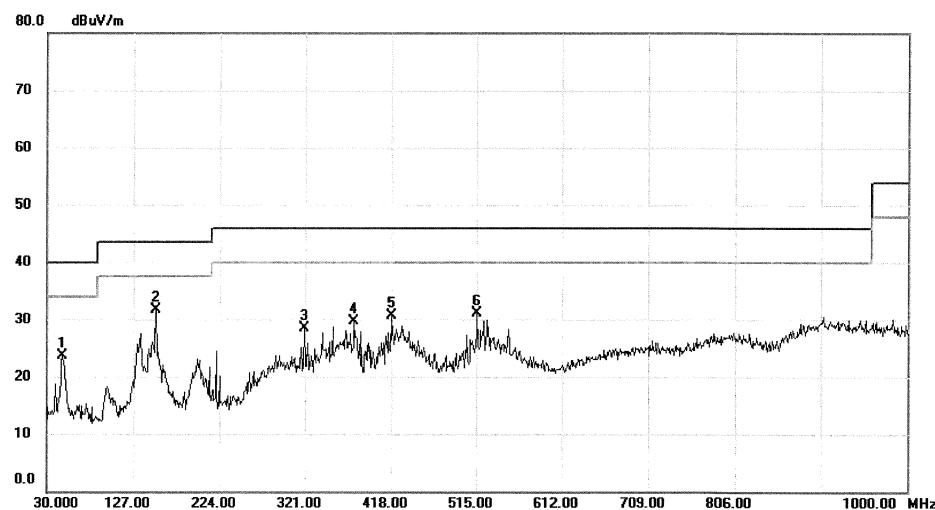
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Test Report No.
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 No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03	Polarization: Horizontal	Temperature: 22 (C)
Limit: FCC Class B 3m Radiation	Power: AC 120V/60Hz	Humidity: 56 %
EUT:	Distance: 3m	
M/N: E235	Mode: TX_1M_2441	
Note: 3.0		

Radiated Emission Measurement

File :FCCP_BELOW1G_1 Data #:4 Date: 2016-1-25 Time: 13:03:15



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dB			
1		47.4600	37.27	-13.62	23.65	40.00	-16.35	peak	
2	*	152.2200	44.54	-12.88	31.66	43.50	-11.84	peak	
3		320.0300	39.26	-10.84	28.42	46.00	-17.58	peak	
4		376.2900	39.93	-10.28	29.65	46.00	-16.35	peak	
5		418.0000	39.50	-8.87	30.63	46.00	-15.37	peak	
6		515.9700	39.60	-8.45	31.15	46.00	-14.85	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

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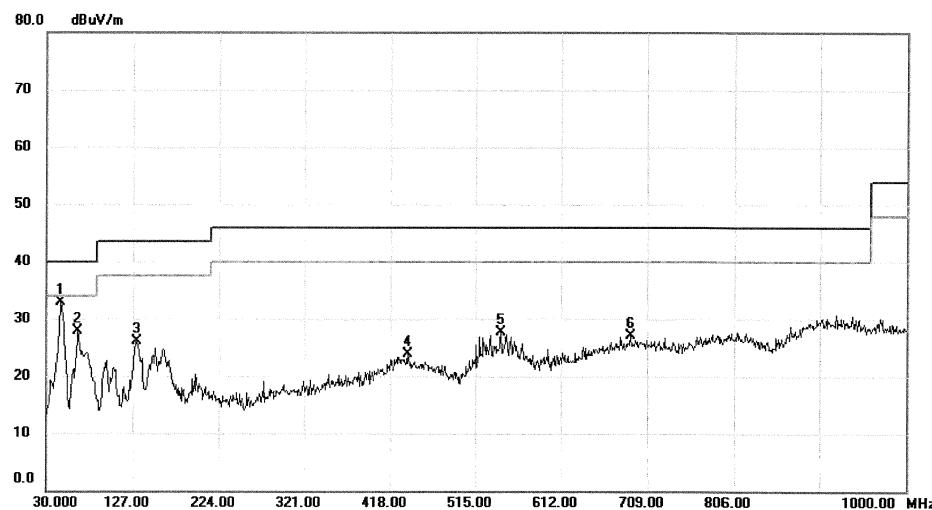


No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03 Polarization: *Vertical* Temperature: 22 (C)
 Limit: FCC Class B 3m Radiation Power: AC 120V/60Hz Humidity: 56 %
 EUT: Distance: 3m
 M/N: E235 Mode: TX_1M_2441
 Note: 3.0

Radiated Emission Measurement

File :FCCP_BELOW1G_1 Data :#3 Date: 2016-1-25 Time: 12:59:26



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1	*	46.4900	46.23	-13.32	32.91	40.00	-7.09	peak	
2		65.8900	43.00	-15.18	27.82	40.00	-12.18	peak	
3		130.8800	39.23	-13.16	26.07	43.50	-17.43	peak	
4		437.4000	32.19	-8.37	23.82	46.00	-22.18	peak	
5		544.1000	33.44	-5.71	27.73	46.00	-18.27	peak	
6		689.6000	31.42	-4.38	27.04	46.00	-18.96	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

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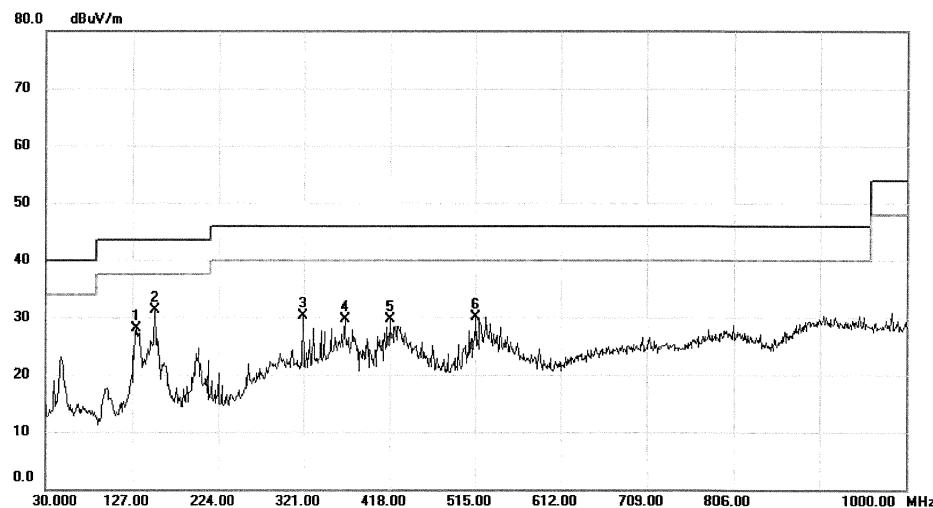


No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03	Polarization: Horizontal	Temperature: 22 (C)
Limit: FCC Class B 3m Radiation	Power: AC 120V/60Hz	Humidity: 56 %
EUT:	Distance: 3m	
M/N: E235	Mode: TX_1M_2480	
Note: 3.0		

Radiated Emission Measurement

File :FCCP_BELOW1G_1 Data #:5 Date: 2016-1-25 Time: 13:06:22



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dB	Margin	Detector	Comment
1		131.8500	41.30	-13.27	28.03	43.50	-15.47	peak	
2	*	152.2200	44.20	-12.88	31.32	43.50	-12.18	peak	
3		320.0300	41.12	-10.84	30.28	46.00	-15.72	peak	
4		367.5600	40.37	-10.63	29.74	46.00	-16.26	peak	
5		418.0000	38.50	-8.87	29.63	46.00	-16.37	peak	
6		515.9700	38.46	-8.45	30.01	46.00	-15.99	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

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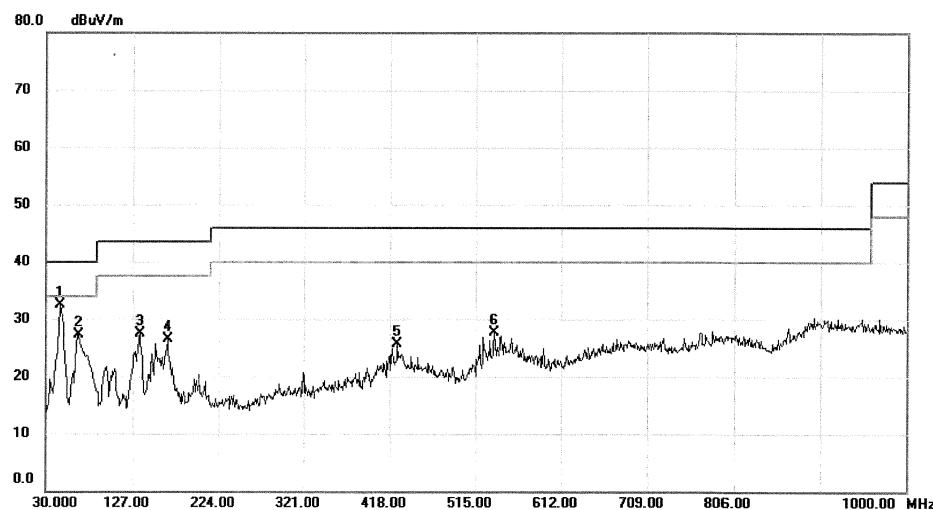


No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03 Polarization: *Vertical* Temperature: 22 (C)
 Limit: FCC Class B 3m Radiation Power: AC 120V/60Hz Humidity: 56 %
 EUT: Distance: 3m
 M/N: E235 Mode: TX_1M_2480
 Note: 3.0

Radiated Emission Measurement

File :FCCP_BELOW1G_1 Data #:6 Date: 2016-1-25 Time: 13:07:46



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1	*	46.4900	45.77	-13.32	32.45	40.00	-7.55	peak	
2		66.8600	42.73	-15.35	27.38	40.00	-12.62	peak	
3		134.7600	41.08	-13.56	27.52	43.50	-15.98	peak	
4		165.8000	39.12	-12.68	26.44	43.50	-17.06	peak	
5		426.7300	34.26	-8.64	25.62	46.00	-20.38	peak	
6		536.3400	34.19	-6.46	27.73	46.00	-18.27	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

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ACCURATE TECHNOLOGY CO., LTD.

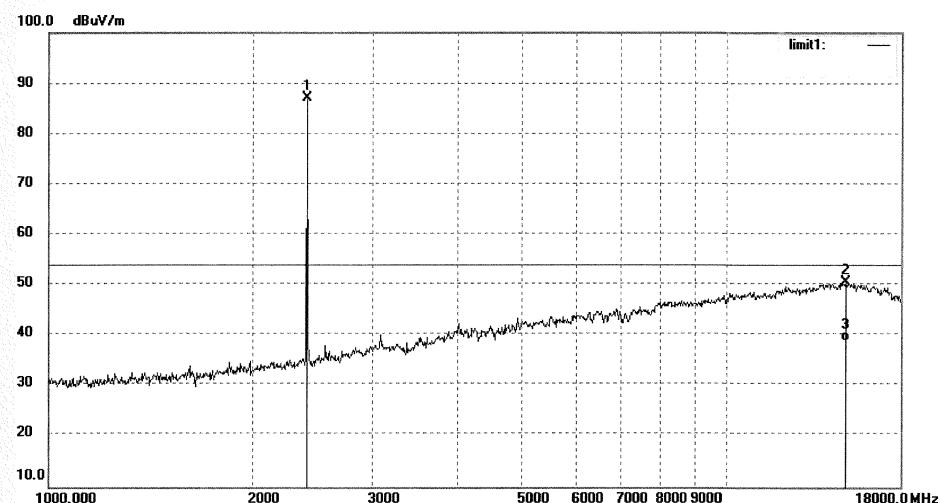
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	Igwade #482	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-1-13
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	Multimedia Speaker	Engineer Signature:	LGWADE
Mode:	TX 2402MHz	Distance:	3m
Model:	e235		
Manufacturer:	EDIFIER		
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	94.62	-7.45	87.17	/	/	peak			
2	14916.942	9.33	41.35	50.68	74.00	-23.32	peak			
3	14916.942	-2.45	41.35	38.90	54.00	-15.10	AVG			

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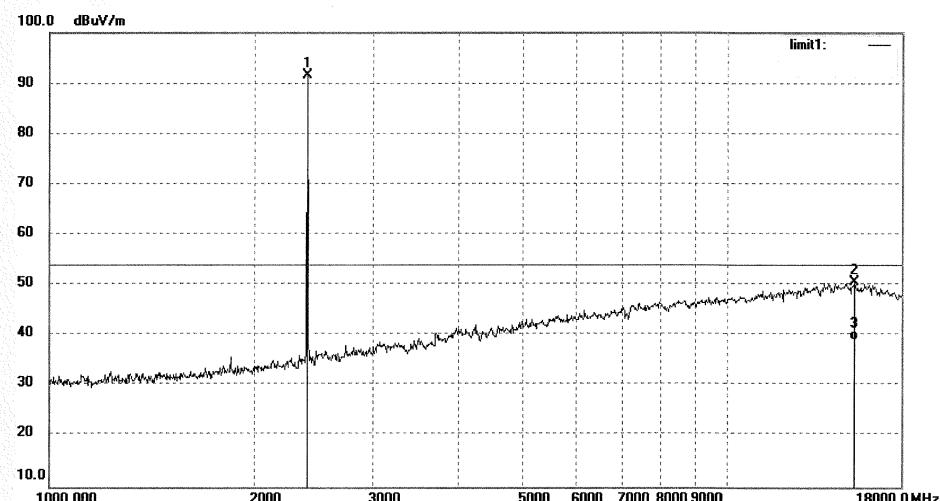
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	Igwade #483	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-1-13
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	Multimedia Speaker	Engineer Signature:	LGWADE
Mode:	TX 2402MHz	Distance:	3m
Model:	e235		
Manufacturer:	EDIFIER		
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	99.11	-7.45	91.66	/	/	peak			
2	15354.388	10.19	40.39	50.58	74.00	-23.42	peak			
3	15354.388	-1.23	40.39	39.16	54.00	-14.84	AVG			

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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.: Igwade #485

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-1-13

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

Time:

EUT: Multimedia Speaker

Engineer Signature: LGWADE

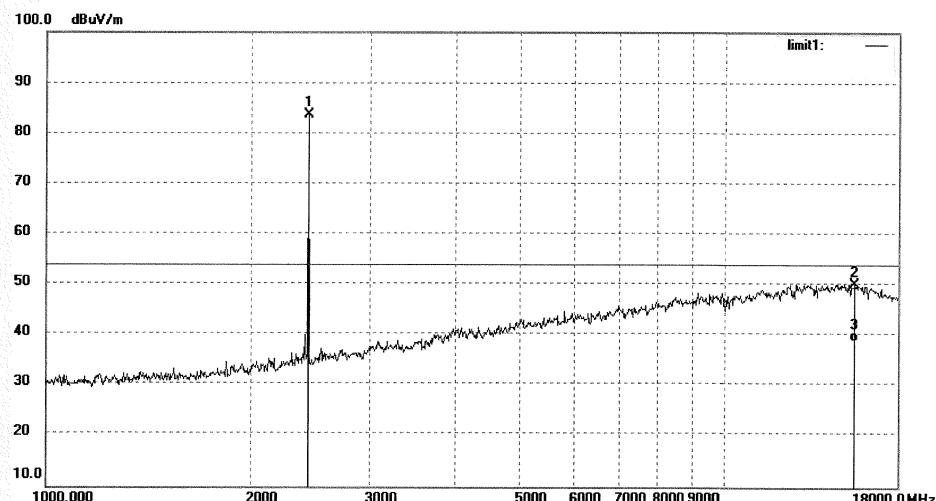
Mode: TX 2441MHz

Distance: 3m

Model: e235

Manufacturer: EDIFIER

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	90.93	-7.35	83.58	/	/	peak			
2	15532.938	10.17	40.09	50.26	74.00	-23.74	peak			
3	15532.938	-1.26	40.09	38.83	54.00	-15.17	AVG			

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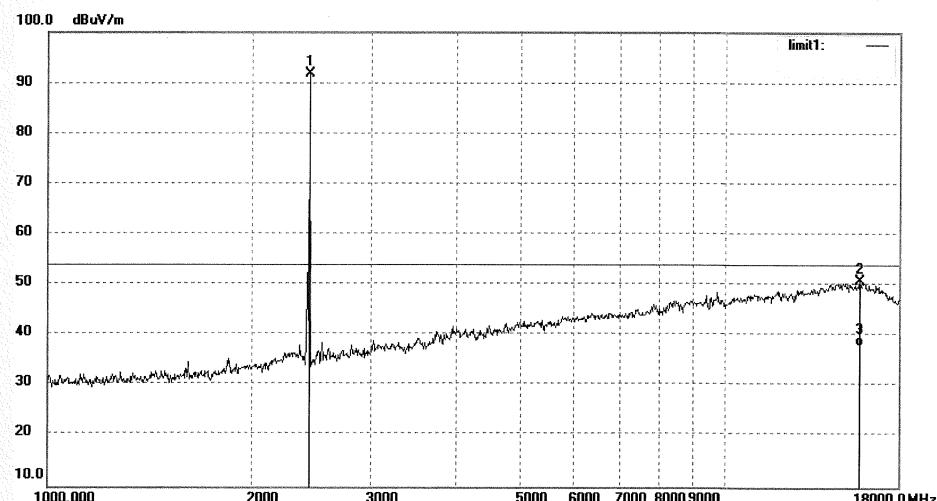
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	Igwade #484	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2016-1-13
Temp. (C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	Multimedia Speaker	Engineer Signature:	LGWADE
Mode:	TX 2441MHz	Distance:	3m
Model:	e235		
Manufacturer:	EDIFIER		
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	99.17	-7.35	91.82	/	/	peak			
2	15759.048	10.82	40.05	50.87	74.00	-23.13	peak			
3	15759.048	-1.95	40.05	38.10	54.00	-15.90	AVG			

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ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #486

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-1-13

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

Time:

EUT: Multimedia Speaker

Engineer Signature: LGWADE

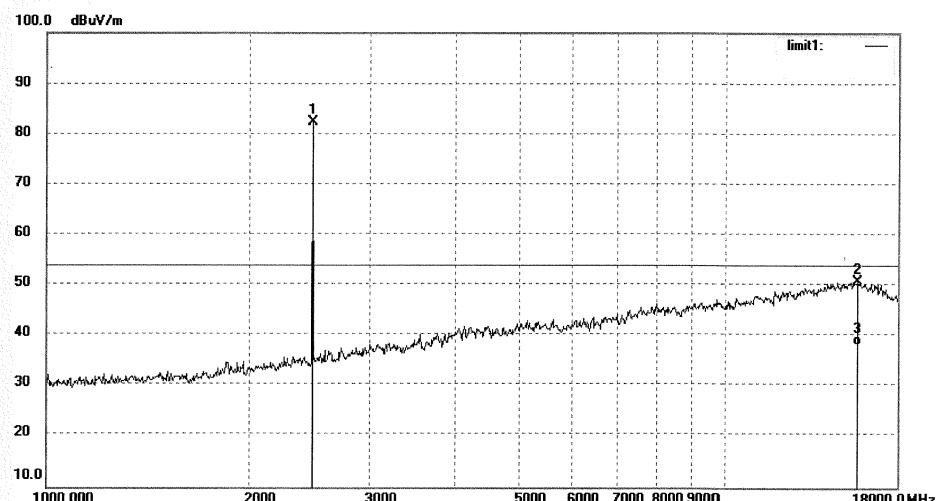
Mode: TX 2480MHz

Distance: 3m

Model: e235

Manufacturer: EDIFIER

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	89.78	-7.37	82.41	/	/	peak			
2	15713.564	10.72	40.06	50.78	74.00	-23.22	peak			
3	15713.564	-1.89	40.06	38.17	54.00	-15.83	AVG			

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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.: Igwade #487

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-1-13

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

Time:

EUT: Multimedia Speaker

Engineer Signature: LGWADE

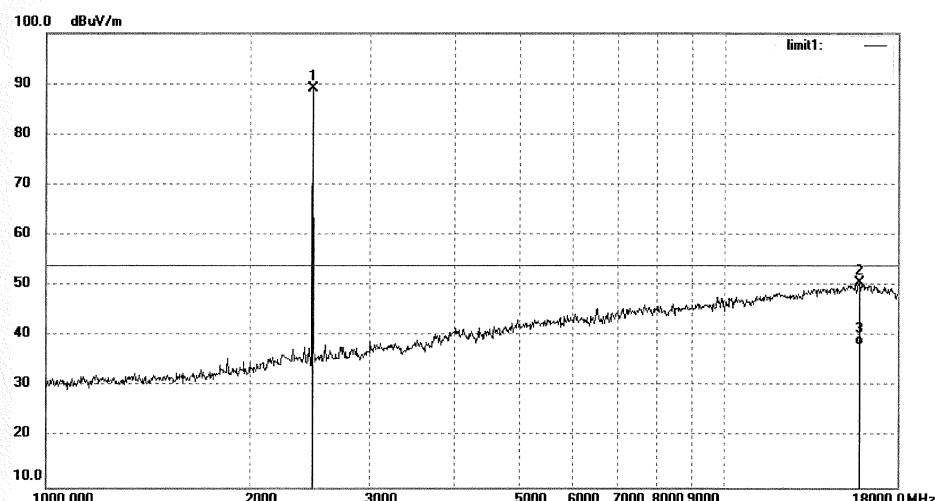
Mode: TX 2480MHz

Distance: 3m

Model: e235

Manufacturer: EDIFIER

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	96.56	-7.37	89.19	/	/	peak			
2	15804.663	10.56	40.04	50.60	74.00	-23.40	peak			
3	15804.663	-1.78	40.04	38.26	54.00	-15.74	AVG			

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ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #492

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/01/19/

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

Time:

EUT: Multimedia Speaker

Engineer Signature: LGWADE

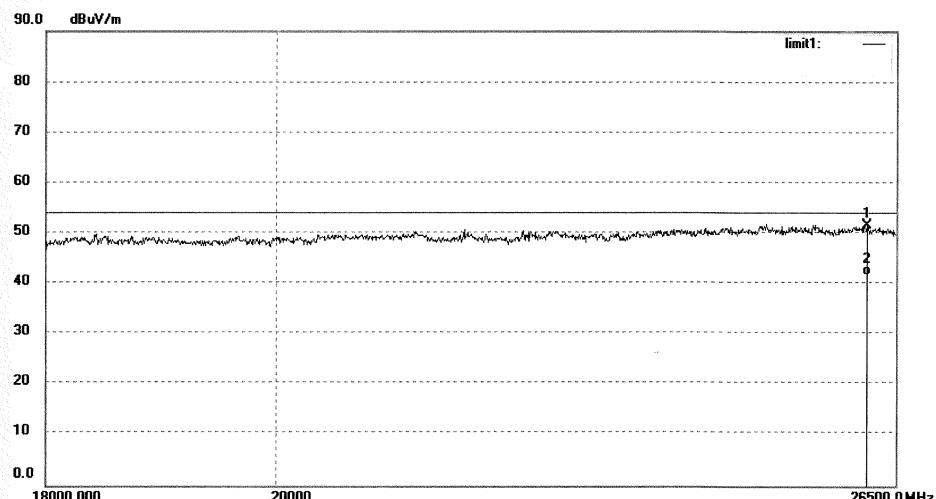
Mode: TX 2402MHz

Distance: 3m

Model: e235

Manufacturer: EDIFIER

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	35.16	16.50	51.66	74.00	-22.34	peak			
2	26153.799	25.23	16.50	41.73	54.00	-12.27	AVG			

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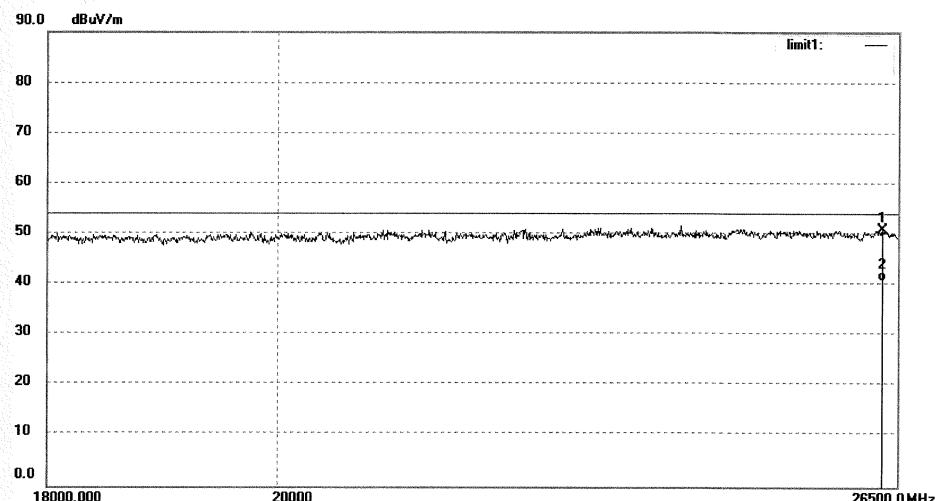
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	Igwade #493	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	16/01/19/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	Multimedia Speaker	Engineer Signature:	LGWADE
Mode:	TX 2402MHz	Distance:	3m
Model:	e235		
Manufacturer:	EDIFIER		
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	26316.150	33.83	17.02	50.85	74.00	-23.15	peak			
2	26316.150	23.92	17.02	40.94	54.00	-13.06	AVG			

Produkte
Products
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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.: Igwade #495

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/01/19/

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

Time:

EUT: Multimedia Speaker

Engineer Signature: LGWADE

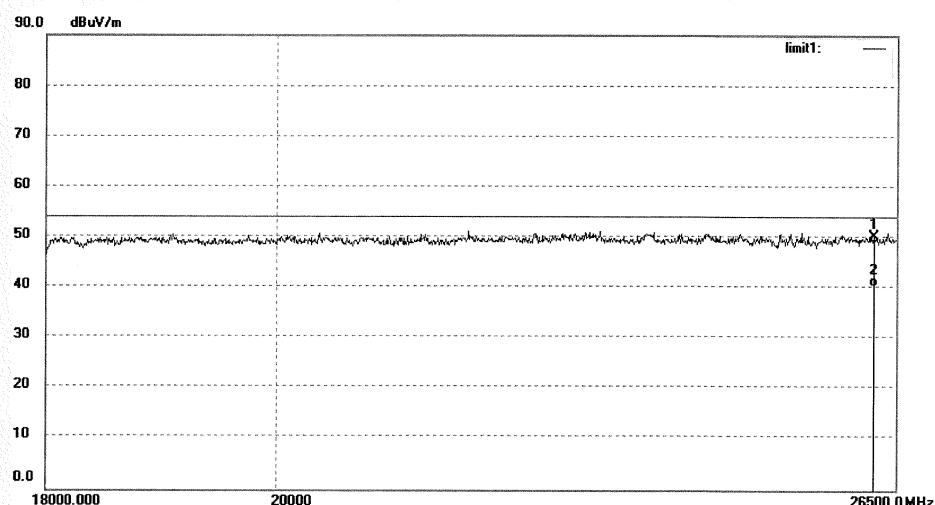
Mode: TX 2441MHz

Distance: 3m

Model: e235

Manufacturer: EDIFIER

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	26234.849	33.70	16.50	50.20	74.00	-23.80	peak			
2	26234.849	23.81	16.50	40.31	54.00	-13.69	AVG			

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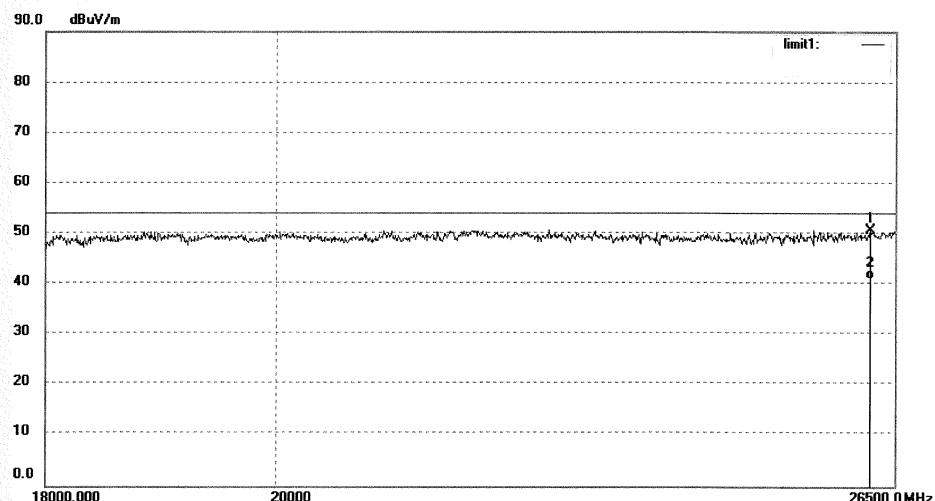
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	Igwade #494	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	16/01/19/
Temp. (C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	Multimedia Speaker	Engineer Signature:	LGWADE
Mode:	TX 2441MHz	Distance:	3m
Model:	e235		
Manufacturer:	EDIFIER		
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	26204.426	33.68	17.10	50.78	74.00	-23.22	peak			
2	26204.426	23.85	17.10	40.95	54.00	-13.05	AVG			

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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.: Igwade #496

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/01/19/

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

Time:

EUT: Multimedia Speaker

Engineer Signature: LGWADE

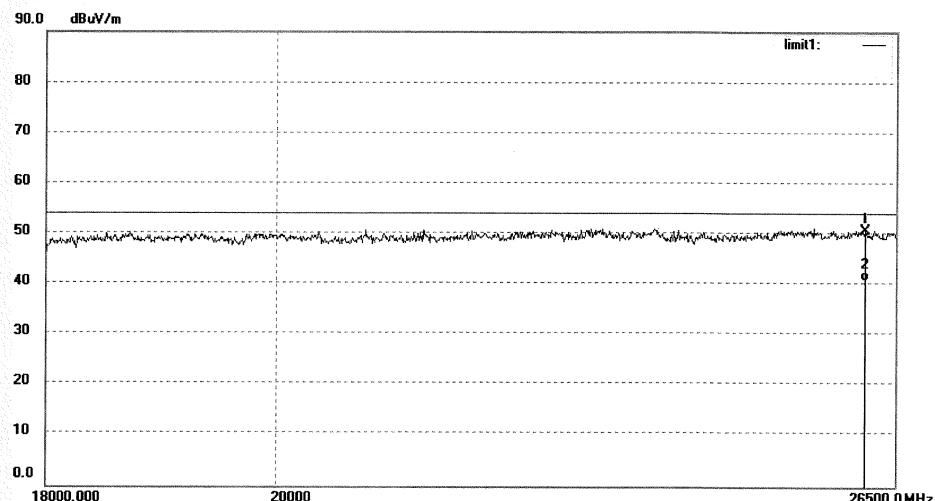
Mode: TX 2480MHz

Distance: 3m

Model: e235

Manufacturer: EDIFIER

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	26143.685	34.19	16.50	50.69	74.00	-23.31	peak			
2	26143.685	24.23	16.50	40.73	54.00	-13.27	AVG			

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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.: Igwade #497

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 16/01/19/

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

Time:

EUT: Multimedia Speaker

Engineer Signature: LGWADE

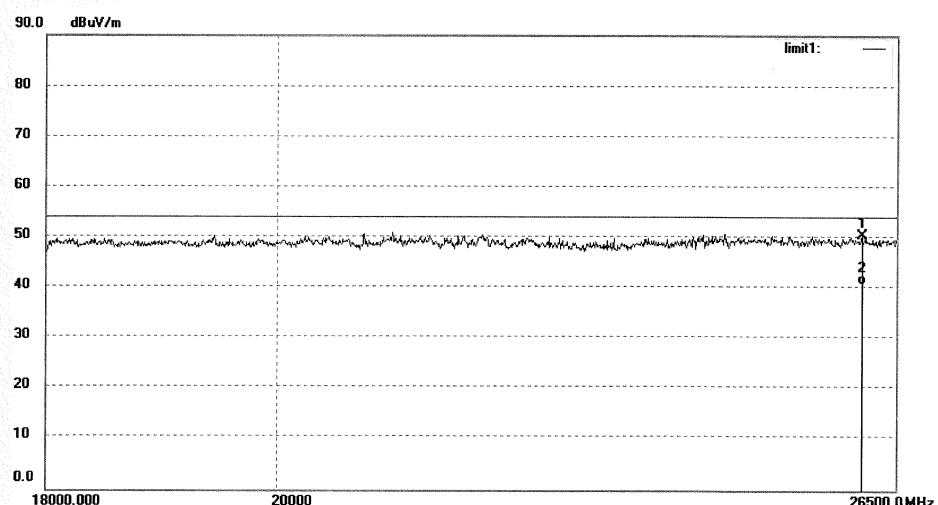
Mode: TX 2480MHz

Distance: 3m

Model: e235

Manufacturer: EDIFIER

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	26093.176	33.25	17.17	50.42	74.00	-23.58	peak			
2	26093.176	23.56	17.17	40.73	54.00	-13.27	AVG			

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Test Plot of Band Edge of Bluetooth 3.0

ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

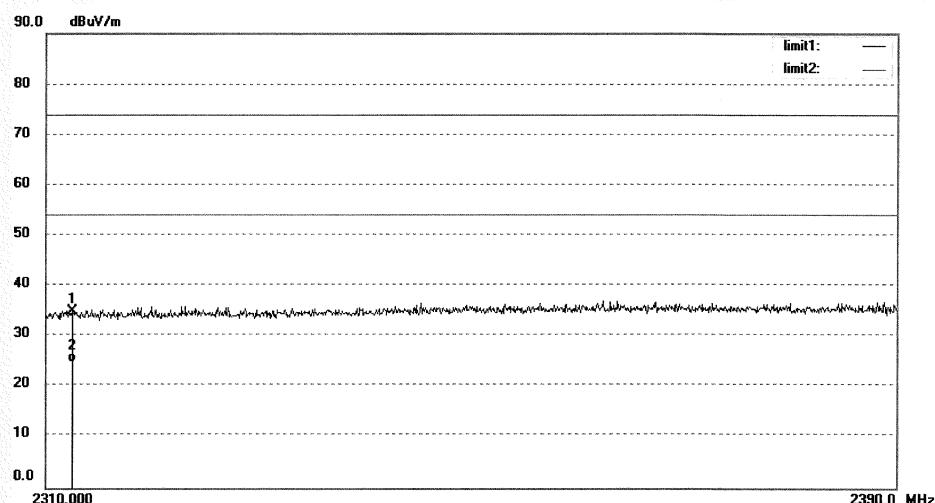
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #489
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Multimedia Speaker
Mode: TX 2402MHz
Model: e235
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2016-1-13
Time:
Engineer Signature: LGWADE
Distance: 3m

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	2312.480	42.80	-7.82	34.98	74.00	-39.02	peak			
2	2312.480	32.78	-7.82	24.96	54.00	-29.04	AVG			

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ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

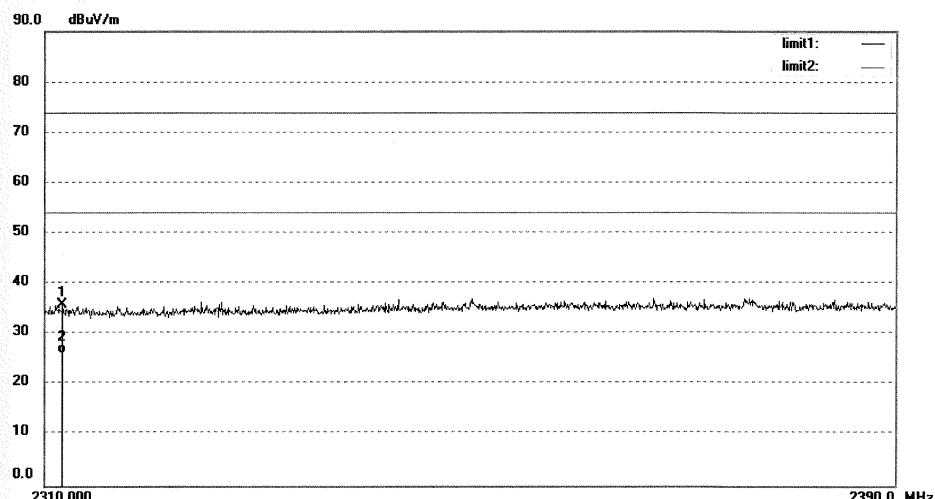
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #488
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp. (C)/Hum.(%) 23 C / 48 %
EUT: Multimedia Speaker
Mode: TX 2402MHz
Model: e235
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2016-1-13
Time:
Engineer Signature: LGWADE
Distance: 3m

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	2311.680	43.81	-7.82	35.99	74.00	-38.01	peak			
2	2311.680	33.94	-7.82	26.12	54.00	-27.88	AVG			

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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

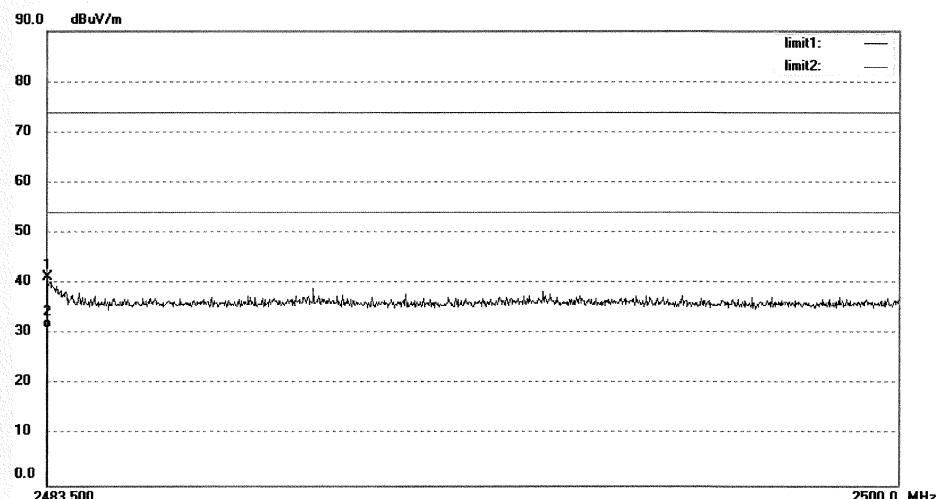
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #490
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp. (C)/Hum.(%) 23 C / 48 %
EUT: Multimedia Speaker
Mode: TX 2480MHz
Model: e235
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2016/01/14
Time:
Engineer Signature: LGWADE
Distance: 3m

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	2483.500	48.75	-7.37	41.38	74.00	-32.62	peak			
2	2483.500	38.56	-7.37	31.19	54.00	-22.81	AVG			

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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.: Igwade #491

Polarization: Vertical

Standard: FCC (Band Edge)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016/01/14

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

Time:

EUT: Multimedia Speaker

Engineer Signature: LGWADE

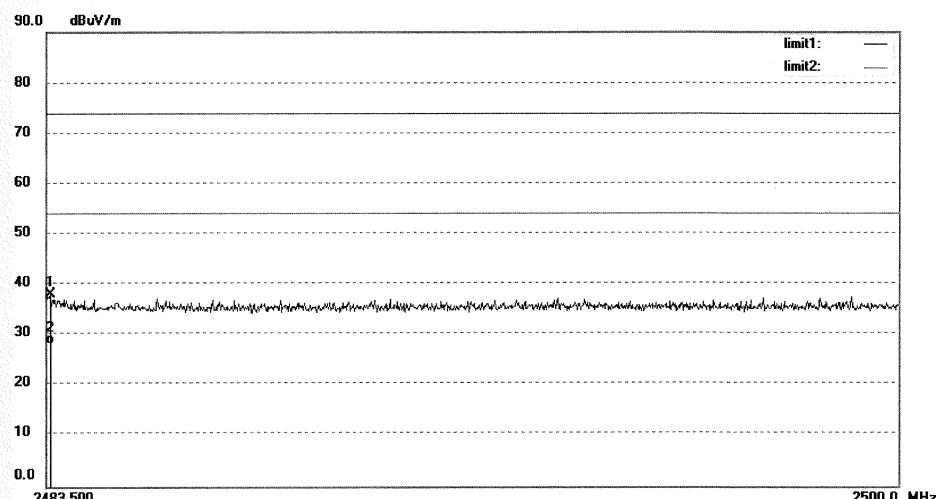
Mode: TX 2480MHz

Distance: 3m

Model: e235

Manufacturer: EDIFIER

Note: Bluetooth



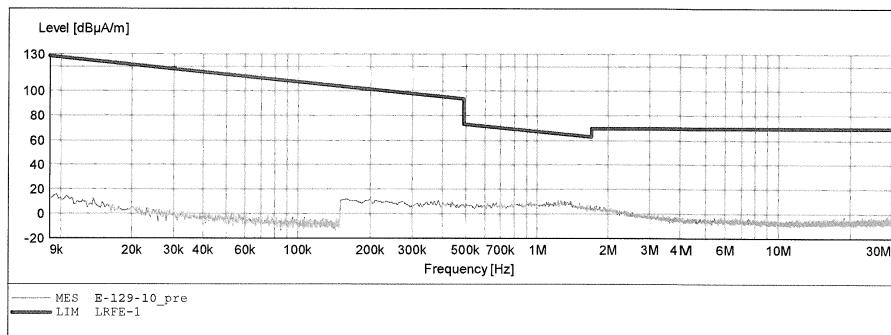
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.566	45.41	-7.37	38.04	74.00	-35.96	peak			
2	2483.566	35.58	-7.37	28.21	54.00	-25.79	AVG			

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Test Report No.
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Test Plot of Spurious Emission of Bluetooth Low Energy mode
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Short Description:		SUB_STD_VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	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

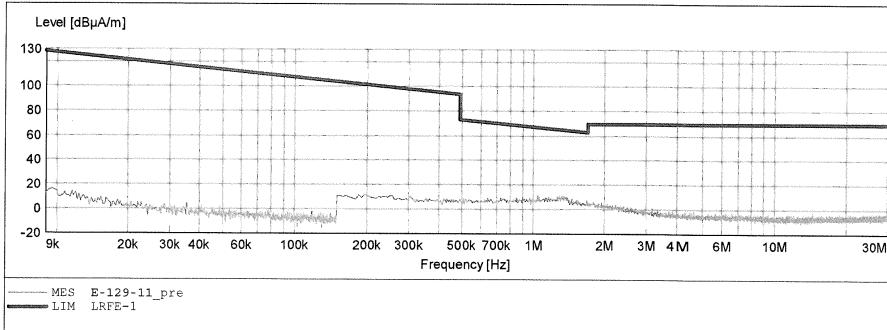


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Test Report No.
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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

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

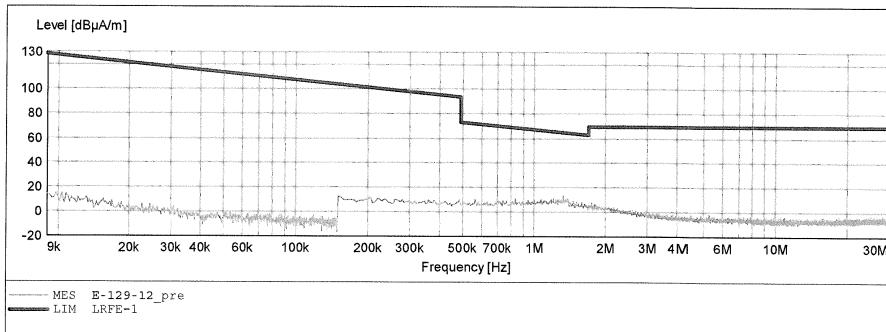


Prüfbericht - Nr.: 17058162 001
*Test Report No.*Seite 63 von 197
Page 63 of 197**ACCURATE TECHNOLOGY CO., LTD****FCC Class B 3M Radiated**

EUT: Multimedia Speaker M/N:e235
Manufacturer: EDIFIER
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: AC 120V/60Hz
Comments: Z
Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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

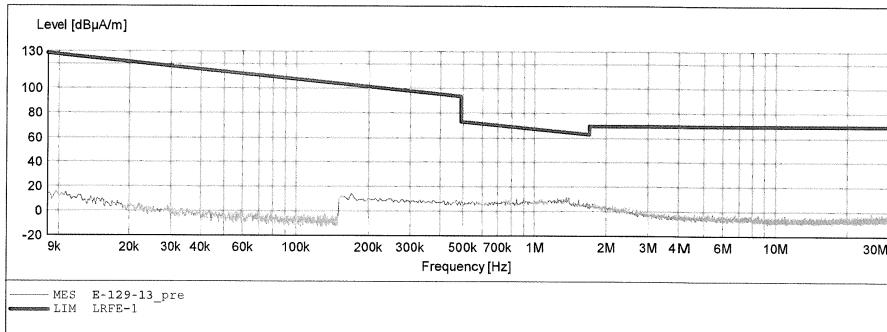


Prüfbericht - Nr.: 17058162 001
*Test Report No.*Seite 64 von 197
Page 64 of 197**ACCURATE TECHNOLOGY CO., LTD****FCC Class B 3M Radiated**

EUT: Multimedia Speaker M/N:e235
Manufacturer: EDIFIER
Operating Condition: TX 2440MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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

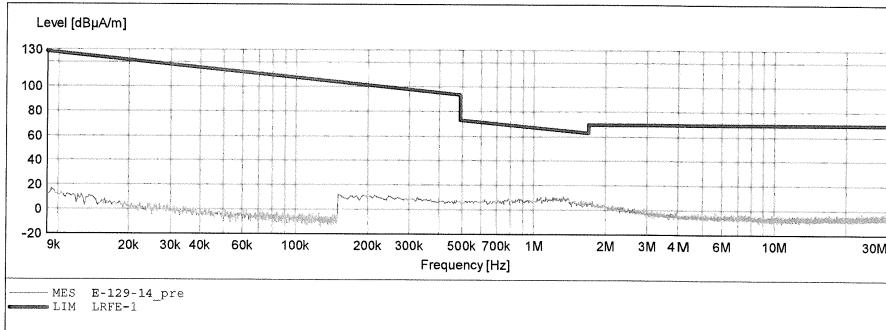


Prüfbericht - Nr.: 17058162 001
*Test Report No.*Seite 65 von 197
Page 65 of 197**ACCURATE TECHNOLOGY CO., LTD****FCC Class B 3M Radiated**

EUT: Multimedia Speaker M/N:e235
Manufacturer: EDIFIER
Operating Condition: TX 2440MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: AC 120V/60Hz
Comments: Y
Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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

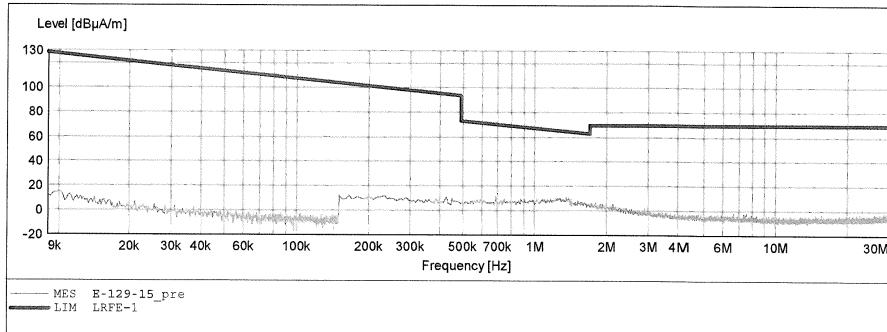


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*Test Report No.*Seite 66 von 197
Page 66 of 197**ACCURATE TECHNOLOGY CO., LTD****FCC Class B 3M Radiated**

EUT: Multimedia Speaker M/N:e235
Manufacturer: EDIFIER
Operating Condition: TX 2440MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: AC 120V/60Hz
Comment: Z
Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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

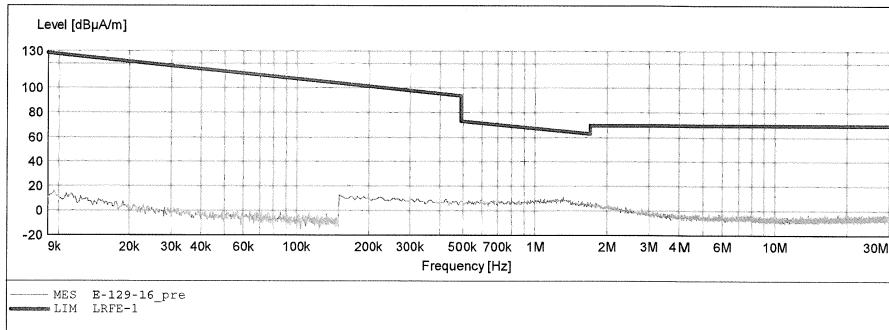


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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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

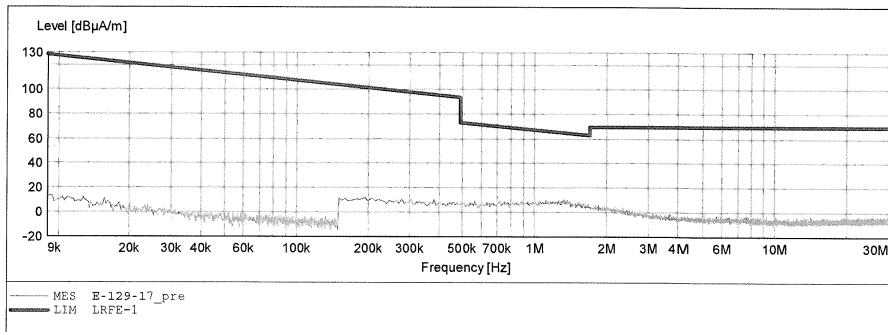


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ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Multimedia Speaker M/N:e235
 Manufacturer: EDIFIER
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	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

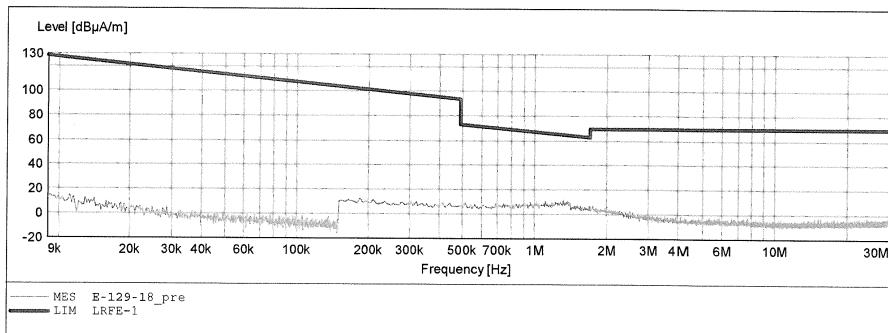


Prüfbericht - Nr.: 17058162 001
*Test Report No.*Seite 69 von 197
Page 69 of 197**ACCURATE TECHNOLOGY CO., LTD****FCC Class B 3M Radiated**

EUT: Multimedia Speaker M/N:e235
Manufacturer: EDIFIER
Operating Condition: TX 2480MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: AC 120V/60Hz
Comment: Z
Start of Test: 2016-1-29 /

SCAN TABLE: "LFRE Fin"

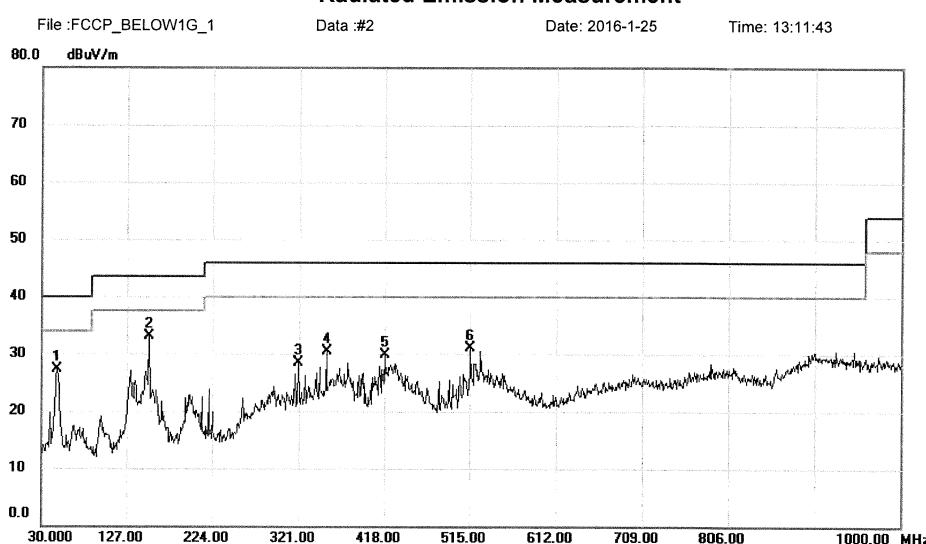
Start	Stop	Step	Detector	Meas.	IF	Transducer
			SUB STD_VTERM2	1.70		
Frequency	Frequency	Width		Time	Bandw.	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



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No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
 Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792
www.newbtl.com

Site: DG-CB03 Polarization: *Horizontal* Temperature: 22 (C)
 Limit: FCC Class B 3m Radiation Power: AC 120V/60Hz Humidity: 56 %
 EUT: Distance: 3m
 M/N: E235 Mode: TX_1M_2402
 Note:

Radiated Emission Measurement


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		47.4600	40.90	-13.62	27.28	40.00	-12.72	peak
2 *		152.2200	45.91	-12.88	33.03	43.50	-10.47	peak
3		320.0300	39.38	-10.84	28.54	46.00	-17.46	peak
4		352.0400	41.74	-11.26	30.48	46.00	-15.52	peak
5		418.0000	38.83	-8.87	29.96	46.00	-16.04	peak
6		515.9700	39.55	-8.45	31.10	46.00	-14.90	peak

*:Maximum data x:Over limit !:over margin

(Reference Only)