

**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

Standard: FCC

Test item: Radiation Test Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Multimedia Speaker

Mode: FM 88.1MHz Model: iF355BT Manufacturer: EDIFIER

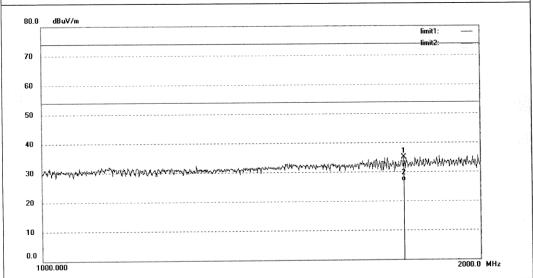
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/03/20/ Time: 10/46/20

Engineer Signature: Alen

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1773.566	45.10	-10.25	34.85	74.00	-39.15	peak			
2	1773.566	36.87	-10.25	26.62	54.00	-27.38	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.: ALEN #1959

Standard: FCC

Test item: Radiation Test

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

EUT: Multimedia Speaker

1868.400

2

FM 98.1MHz Mode: Model: iF355BT Manufacturer: EDIFIER

Note:

Polarization: Horizontal

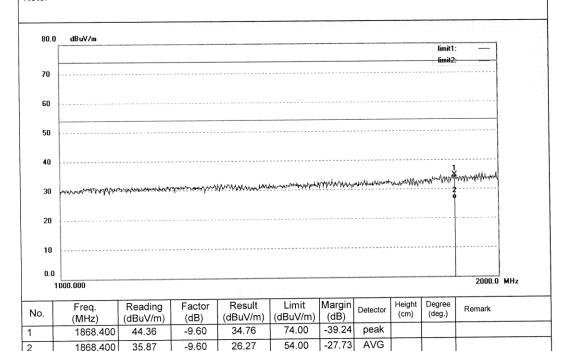
Power Source: AC 120V/60Hz

Date: 14/03/20/

Time: 11/05/59

Engineer Signature: Alen

Distance: 3m





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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

Polarization: Vertical

Date: 14/03/20/

Time: 10/57/23

Distance: 3m

Power Source: AC 120V/60Hz

Engineer Signature: Alen

Job No.: ALEN #1958

Standard: FCC

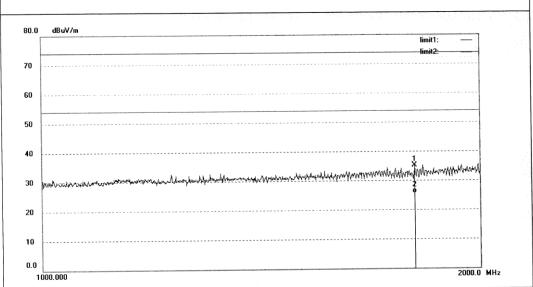
Test item: Radiation Test

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

EUT: Multimedia Speaker

Mode: FM 98.1MHz Model: iF355BT

Manufacturer: EDIFIER



No	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1804.630	(4/	-9.99	35.13	74.00	-38.87	peak			
2	1804.630	35.54	-9.99	25.55	54.00	-28.45	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.: ALEN #1961

Standard: FCC

Test item: Radiation Test

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

EUT:

Multimedia Speaker

Mode:

FM 107.9MHz

Model: iF355BT Manufacturer: EDIFIER Polarization: Horizontal

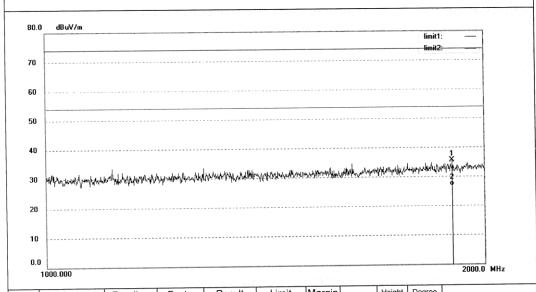
Power Source: AC 120V/60Hz

Date: 14/03/20/

Time: 11/24/36

Engineer Signature: Alen

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1902.446	45.21	-9.70	35.51	74.00	-38.49	peak			
2	1902.446	36.35	-9.70	26.65	54.00	-27.35	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.: ALEN #1960 Standard: FCC

Test item: Radiation Test Temp.( C)/Hum.(%) 23 C / 48 % EUT: Multimedia Speaker

Mode: FM 107.9MHz Model: iF355BT

Manufacturer: EDIFIER

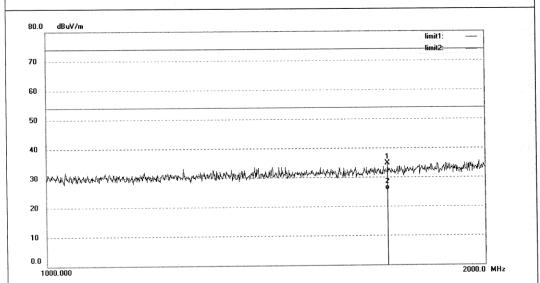
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/03/20/ Time: 11/14/05

Engineer Signature: Alen

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	1715.414		-10.32	34.74	74.00	-39.26	peak				
2	1715,414	35.89	-10.32	25.57	54.00	-28.43	AVG				



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# 5.1.10 Conducted emissions

RESULT: Pass

Date of testing : 2014-02-21

Test standard : FCC Part 15.107

FCC Part 15.207 RSS-210 Clause 2.6

Basic standard : ANSI C63.4: 2003 Frequency range : 0.15 – 30MHz Limits : FCC Part 15.107(a)

FCC Part 15.107(a) FCC Part 15.207(a)

Table 4 of RSS-Gen

Kind of test site : Shield room

Test setup

Input voltage : AC 120V, 60Hz

Operation mode : A

Earthing : Not Connected

For details refer to following test plot.



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# **Test Plot of Conducted emissions**

#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Multimedia Speaker M/N:iF355BT EUT:

Manufacturer: EDIFIER

Operating Condition: BT

Test Site: 1#Shielding Room
Operator: ALEN

Test Specification: L 120V/60Hz
Comment: Mains Port
Start of Test: 2/21/2014 / 8:11:24AM

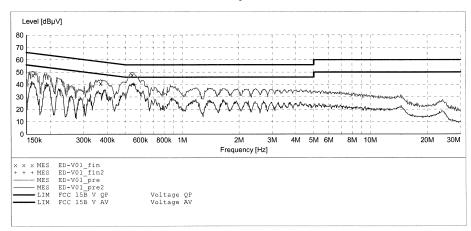
Detector Meas. IF
Time Bandw.

Transducer

SCAN TABLE: "V 150K-30MHz fin"
Short Description: SUB\_STD\_VTERM2 1.70
Start Stop Step Detector Meas.
Frequency Frequency Width Time
150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s

QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



### MEASUREMENT RESULT: "ED-V01 fin"

2/21/2014 8:	:19AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.162467	47.70	10.5	65	17.6	QP	L1	GND
0.368279	41.00	10.7	59	17.5	QP	L1	GND
0.542434	47.80	10.7	56	8.2	QP	L1	GND

# MEASUREMENT RESULT: "ED-V01\_fin2"

2/21/2014 8:1	9AM						
Frequency		Transd		Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0 150056	40 E0	10.5	56	15.0	71.5.7	L1	GND
0.159256	40.50	10.5	26	13.0	AV	TrT	GND
0.190596	39.10	10.5	54	14.9	AV	L1	GND
0 553370	40 10	10.7	46	5 9	Z\ \ 7	T. 1	GND



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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Multimedia Speaker M/N:iF355BT

Manufacturer: EDIFIER

Operating Condition: BT Test Site: 1#8

1#Shielding Room

ALEN Test Specification: N 120V/60Hz

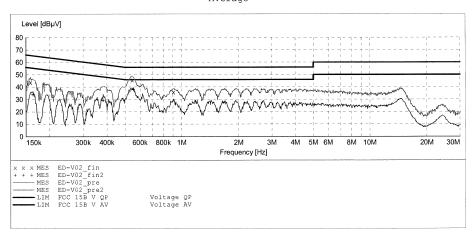
Comment: Mains Port Start of Test: 2/21/2014 / 8:20:43AM

SCAN TABLE: "V 150K-30MHz fin"
Short Description: \_SUB\_STD\_VTERM2 1.70
Start Stop Step Detector Meas.

Detector Meas. IF
Time Band Transducer Bandw.

Start Stop Step
Frequency Frequency Width
150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



# MEASUREMENT RESULT: "ED-V02 fin"

2/21/2014 8	3:28AM						
Frequency	y Level	Transd	Limit	Margin	Detector	Line	PΕ
MH2	z dBµV	dB	dΒμV	dB			
0.157990	43.80	10.5	66	21.8	QP	N	GND
0.544604	45.80	10.7	56	10.2	QP	N	GND
0.904195	36.00	10.8	56	20.0	QP	N	GND

### MEASUREMENT RESULT: "ED-V02 fin2"

MA8						
Level	Transd	Limit	Margin	Detector	Line	PΕ
dBuV	dB	dBuV	dB			
33 80	10.5	5.5	21.5	VA	N	GND
29.20	10.7	48	19.0	AV	N	GND
37.90	10.7	46	8.1	AV	N	GND
	Level dBµV 33.80 29.20	Level Transd dB	Level Transd Limit dBµV dB dBµV 33.80 10.5 55 29.20 10.7 48	Level dBμV         Transd dB         Limit dBμV         Margin dB           33.80         10.5         55         21.5           29.20         10.7         48         19.0	Level dBμV         Transd dB         Limit dBμV         Margin dB         Detector dB           33.80         10.5         55         21.5         AV           29.20         10.7         48         19.0         AV	Level dBμV         Transd dB dBμV         Limit dBμV         Margin dB         Detector Line dB           33.80         10.5         55         21.5         AV         N           29.20         10.7         48         19.0         AV         N



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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Multimedia Speaker M/N:iF355BT

Manufacturer: EDIFIER Operating Condition: Aux in Test Site: 1#Shiel

1#Shielding Room

ALEN

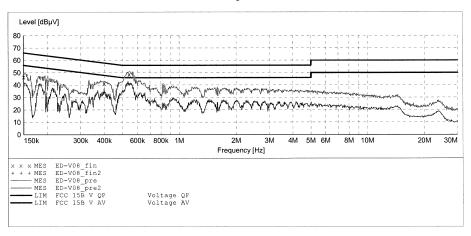
Test Specification: L 120V/60Hz
Comment: Mains Port
Start of Test: 2/21/2014 / 9:15:23AM

SCAN TABLE: "V 150K-30MHz fin"
Short Description: \_SUB\_STD\_VTERM2 1.70
Start Stop Step Detector Meas.

Detector Meas. IF
Time Band Transducer Bandw.

Start Stop Step Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



# MEASUREMENT RESULT: "ED-V08\_fin"

2/21/2014	9:24AM						
Frequenc	y Level	Transd	Limit	Margin	Detector	Line	PΕ
MH	z dBµV	dB	dΒμV	dB			
0.15000	0 46.60	10.5	66	19.4	QP	L1	GND
0.39888	8 41.30	10.7	58	16.6	QP	L1	GND
0.54243	4 48.70	10.7	56	7.3	QP	L1	GND

### MEASUREMENT RESULT: "ED-V08 fin2"

2/	21/2014 9:2	4 AM						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHZ	dBuV	dB	dBuV	dB			
		- III						
	0.182408	40.10	10.5	54	14.3	Z\ \77	T.1	GND
							200	
	0.398888	34.10	10.7	48	13.8	AV	L1	GND
	0.533841	41.00	10.7	46	5.0	AV	L1	GND



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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Multimedia Speaker M/N:iF355BT

Manufacturer: EDIFIER

Manuracturer.

Operating Condition: Aux in
Test Site: 1#Shielding Room ALEN

Test Specification: N 120V/60Hz
Comment: Mains Port
Start of Test: 2/21/2014 / 9:06:26AM

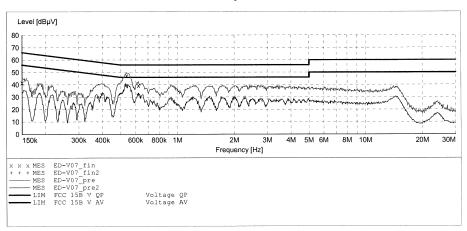
SCAN TABLE: "V 150K-30MHz fin"
Short Description: Start Stop Step Detector Meas.

Transducer

Detector Meas. IF Bandw.

Start Stop Step
Frequency Frequency Width
150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



## MEASUREMENT RESULT: "ED-V07\_fin"

2/21/2014 9:	14AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.150000	41.70	10.5	66	24.3	QP	N	GND
0.538120	47.30	10.7	56	8.7	QP	N	GND
0.621288	39.40	10.8	56	16.6	QP	N	GND

### MEASUREMENT RESULT: "ED-V07 fin2"

2/21/2014 9:1	4AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB			
0.398888	32.50	10.7	48	15.4	AV	N	GND
0.531714	39.80	10.7	46	6.2	AV	N	GND
0.621288	32.10	10.8	46	13.9	AV	N	GND



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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Multimedia Speaker M/N:iF355BT

Manufacturer: EDIFFER
Operating Condition: SD Playing
Test Site: 1#Shielding Room
Operator: ALEN

Test Specification: L 120V/60Hz
Comment: Mains Port
Start of Test: 2/21/2014 / 8:47:06AM

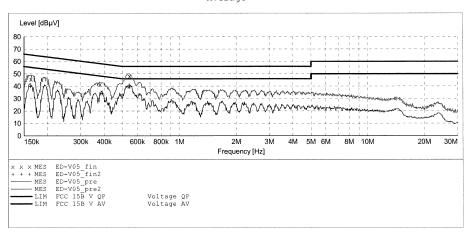
SCAN TABLE: "V 150K-30MHz fin"
Short Description: SUB\_STD\_VTERM2 1.70
Start Stop Step Detector Meas.
Frequency Frequency Width Time
150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s

Detector Meas. IF Transducer

Bandw.

9 kHz NSLK8126 2008

Average



#### MEASUREMENT RESULT: "ED-V05 fin"

2/21/2014 8 Frequency		Transd	Limit	Margin	Detector	Line	PE
MH	z dBµV	dB	dΒμV	dB			
0.16311	7 45.80	10.5	65	19.5	QP	L1	GND
0.380230	41.40	10.7	58	16.9	QP	L1	GND
0.544604	48.10	10.7	56	7.9	QP	L1	GND

### MEASUREMENT RESULT: "ED-V05 fin2"

2,	/21/2014 8:	55AM						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBuV	dB	dBuV	dB			
	0.162467	39.80	10.5	5.5	15.5	AV	L1	GND
	0.389447	33.90	10.7	48	14.2	AV	L1	GND
	0.542434	40.10	10.7	46	5.9	AV	L1	GND



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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Multimedia Speaker M/N:iF355BT

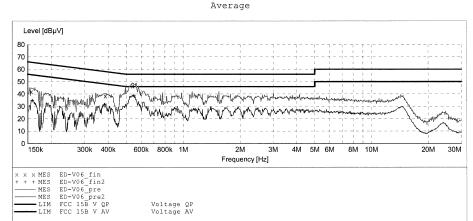
Manufacturer: EDIFIER Manufacturer: EDIFIER
Operating Condition: SD Playing
Test Site: 1#Shielding Room
Operator: ALEN
Test Specification: N 120V/60Hz
Comment: Mains Port
Start of Test: 2/21/2014 / 8:56:04AM

SCAN TABLE: "V 150K-30MHz fin"
Short Description: Start Stop Step Detector Meas. Detector Meas. IF

Transducer

Start Stop Step
Frequency Frequency Width
150.0 kHz 30.0 MHz 4.5 kHz Bandw.

QuasiPeak 1.0 s 9 kHz NSLK8126 2008



#### MEASUREMENT RESULT: "ED-V06 fin"

2/21/2014 9:0	5AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB			
0.156109	41.80	10.5	66	23.9	QP	N	GND
0.386350	38.50	10.7	58	19.6	QP	N	GND
0.540273	46.50	10.7	56	9.5	QP	N	GND

### MEASUREMENT RESULT: "ED-V06 fin2"

2/.	21/2014 9:0	5AM						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
	MHz	dBuV	dB	dBuV	dB			
		app.	4.2	α2μ.	u.D			
	0.157990	34.60	10.5	56	21.0	7/17	N	GND
		24.00	10.5	50	21.0	ΑV	IA	GIVD
	0.383278	31.20	10.7	48	17.0	AV	N	GND
	0.548969	38.80	10.7	46	7.2	AV	N	GND



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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Manufacturer:

Multimedia Speaker M/N:iF355BT EDIFIER

Operating Condition: Radio FM
Test Site: 1#Shielding Room

ALEN

Test Specification: L 120V/60Hz

Comment: Mains Port Start of Test: 2/21/2014 / 8:38:05AM

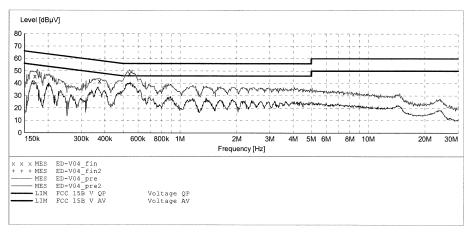
SCAN TABLE: "V 150K-30MHz fin"
Short Description: \_SUB\_STD\_VTERM2 1.70
Start Stop Step Detector Meas. Detector Meas.
Time Start Stop Step
Frequency Frequency Width
150.0 kHz 30.0 MHz 4.5 kHz

IF Bandw.

QuasiPeak 1.0 s

9 kHz NSLK8126 2008

Average



# MEASUREMENT RESULT: "ED-V04\_fin"

2/21/2014	8:46A	M						
Freque	ncy	Level	Transd	Limit	Margin	Detector	Line	PE
Ī	MHz	dΒμV	dB	dΒμV	dB			
0.169	760	45.70	10.5	65	19.3	QP	L1	GND
0.374	207	41.70	10.7	58	16.7	QP	L1	GND
0.540	273	47.80	10.7	56	8.2	QP	L1	GND

# MEASUREMENT RESULT: "ED-V04 fin2"

2/	/21/2014 8:4	6AM						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBuV	dB	dBuV	dB			
				"				
	0.167739	39.70	10.5	5.5	15.4	AV	L1	GND
	0.201551	38.00	10.5	5.4	15.5	ΑV	L1	GND
	0.544604	39.50	10.7					
	0.344604	39.30	TO. /	46	6.5	AV	L1	GND



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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Multimedia Speaker M/N:iF355BT

Manufacturer: EDIFIER

Operating Condition: Radio FM
Test Site: 1#Shielding Room

Operator: ALEN Test Specification: N 120V/60Hz

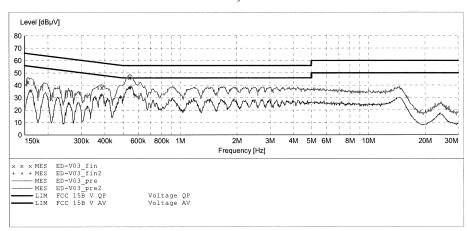
Comment: Mains Port Start of Test: 2/21/2014 / 8:29:17AM

SCAN TABLE: "V 150K-30MHz fin"
Short Description:
Start Stop Step Detector Meas.

Detector Meas. IF Transducer Bandw. Time

Start Stop Step Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



# MEASUREMENT RESULT: "ED-V03\_fin"

2/21/2014	8:37AM						
Frequenc	y Level	Transd	Limit	Margin	Detector	Line	PE
MH	lz dBµV	dB	dΒμV	dB			
0.15610	9 42.70	10.5	66	23.0	QP	N	GND
0.38481	1 38.20	10.7	58	20.0	QP	N	GND
0.54243	4 46.30	10.7	56	9.7	QP	N	GND

### MEASUREMENT RESULT: "ED-V03 fin2"

2/21/201	4 8:37	AM						
Freque	ency	Level	Transd	Limit	Margin	Detector	Line	PE
_	MHz	dBuV	dB	dBuV	dB			
				,				
0.16	1820	35.50	10.5	55	19.9	AV	N	GND
0.38	4811	32.00	10.7	48	16.2	AV	N	GND
0.548	3969	38.50	10.7	46	7.5	AV	N	GND



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# 6. Safety Human exposure

# **6.1 Radio Frequency Exposure Compliance**

# **6.1.1 Electromagnetic Fields**

RESULT: Pass

Test standard : RSS-102 Issue 4 March 2010

FCC KDB Publication 447498 D01 v05r01

The maximum peak output power of the transmitter is 1.62mW (2.09dBm) only, which less than 20mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 4.

Since maximum peak output power of the transmitter is 1.62mW<96mW, and the distance from EUT to human is >50mm, hence the EUT is exclueded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v05r01.



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# 7. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



Photograph 2: Set-up for Radiated Emissions



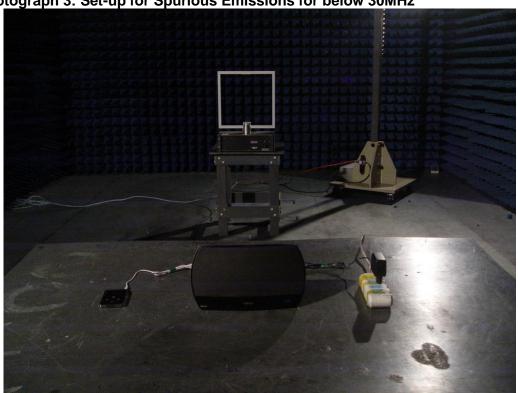


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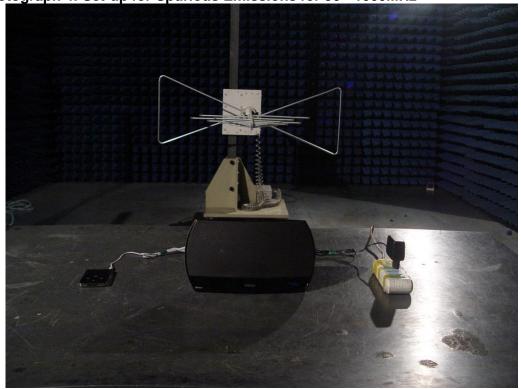
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Photograph 3: Set-up for Spurious Emissions for below 30MHz







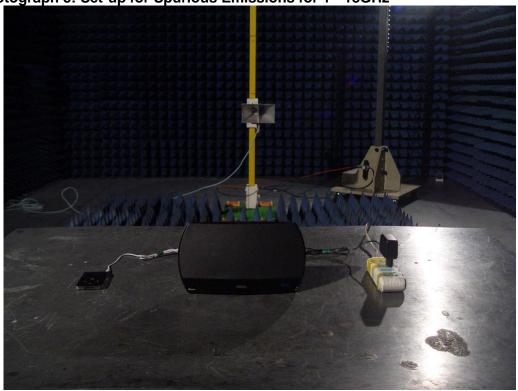


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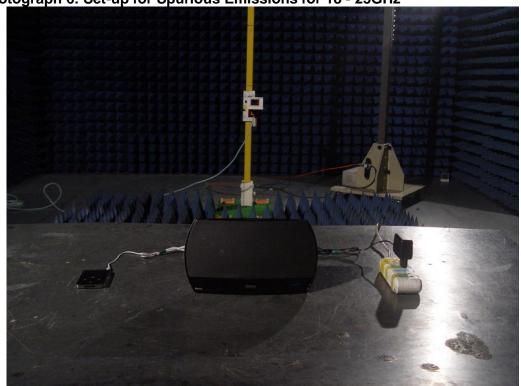
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Photograph 5: Set-up for Spurious Emissions for 1 - 18GHz









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**Photograph 7: Setup for Radio Spectrum testing** 





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