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No.: DM125893

Applicant: Kidz Toyz, Inc

280 N, Bedford Rd. Suite 203, Mt. Kisco, NY 10549, USA

Manufacturer: Kidz Toyz, Inc

280 N, Bedford Rd. Suite 203, Mt. Kisco, NY 10549, USA

Description of Sample(s): Submitted samples(s) said to be

Product: Cell Phone Walkie Talkies

Brand Name: N/A Model Number: 15160

FCC ID: 2AI7A15160

Date Sample(s) Received: 2016-11-29

Date Tested: 2016-12-05 to 2016-12-06

Investigation Requested: Perform ElectroMagnetic Interference measurement in

accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2015 and ANSI C63.10: 2013 for

FCC Certification.

Conclusion(s): The submitted product <u>COMPLIED</u> with the requirements

of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on

Section 2.2 in this Test Report.

Remark(s): For additional model(s) details, please page 3

Authorized Signatory
ElectroMagnetic Compatibility Department
For and on behalf of

LONG Yun Jian

STC (Dongguan) Company Limited



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1.0 General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: Cell Phone Walkie Talkies

Manufacturer: Kidz Toyz, Inc

280 N, Bedford Rd. Suite 203, Mt. Kisco, NY 10549, USA

Brand Name: N/A
Model Number: 15160
Additional Model Number: 15161

Input Voltage: 6Vd.c("AAA" battery x 4)

1.1.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Cell Phone Walkie Talkies. Operating at 49.86MHz. Test was conducted under Tx mode.

1.2 Date of Order

2016-11-29

1.3 Submitted Sample(s):

1 Sample

1.4 Test Duration

2016-12-05 to 2016-12-06

1.5 Country of Origin

China

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<u>2.0</u> Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2015 and ANSI C63.10: 2013 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class /	Test	Result	
			Severity	Pass	Failed	
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.235	ANSI C63.10: 2013	N/A	\boxtimes		
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A			

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30 – 1000MHz)

Test Requirement: FCC 47CFR 15.235 Test Method: ANSI C63.10: 2013

Test Date: 2016-12-05 Mode of Operation: Tx mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

*: Semi-anechoic chamber located on the STC (Dongguan) Company Ltd. 68 Fumin Nan Road, Dalang, Dongguan, Guangdong, PRC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.



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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av) RBW: 10kHz

VBW: 30kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

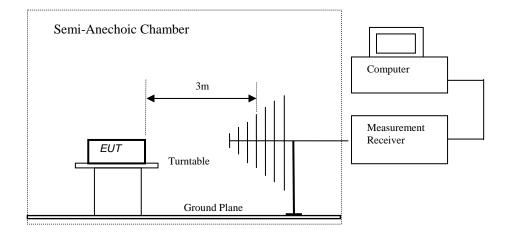
30MHz – 1GHz (QP) RBW: 120kHz

VBW: 120kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

Test Setup:





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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Fundamental Emission
	[Peak]	[Average]
[MHz]	$[\mu V/m]$	$[\mu V/m]$
49.82-49.90	100,000	10,000

Results of Tx mode(30MHz-1GHz): PASS

	Field Strength of Fundamental Emissions							
			Peak Value					
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field							
Level @3m Factor			Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	μV/m	μV/m			
49.86	49.9	9.2	59.1	901.6	100,000	Vertical		
49.86	28.7	9.8	38.5	84.1	100,000	Horizontal		

Field Strength of Fundamental Emissions							
			Average				
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field						
	Level @3m	Factor	Strength	Strength		Polarity	
MHz $dB\mu V$ dB/m $dB\mu V/m$ $\mu V/m$ $\mu V/m$							
49.86	49.5	9.2	58.7	861.0	10,000	Vertical	
1111 1111 1111						Horizontal	

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.



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Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits
[MHz]	$[\mu V/m]$
30-88	100
88-216	150
216-960	200
Above960	500

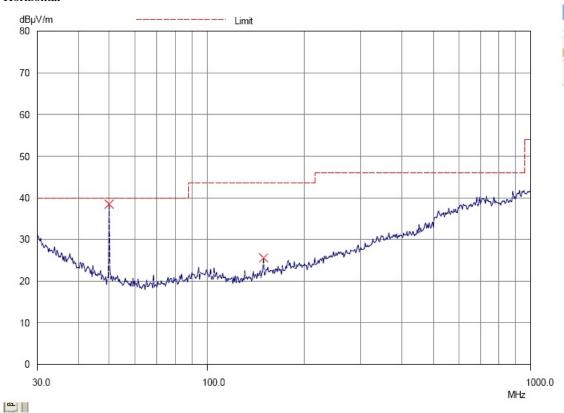
The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Tx mode (9kHz-30MHz): PASS

Emissions detected are more than 20 dB below the limit line(s).

Results of Tx mode(30MHz-1GHz): PASS

Horizontal





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Results of Tx mode(30MHz-1GHz): PASS

	Radiated Emissions							
	Quasi-Peak							
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field							
Level @3m Factor Strength Strength						Polarity		
MHz $dB\mu V$ dB/m $dB\mu V/m$ $\mu V/m$ $\mu V/m$								
149.50	15.4	10.2	25.6	19.1	150	Horizontal		



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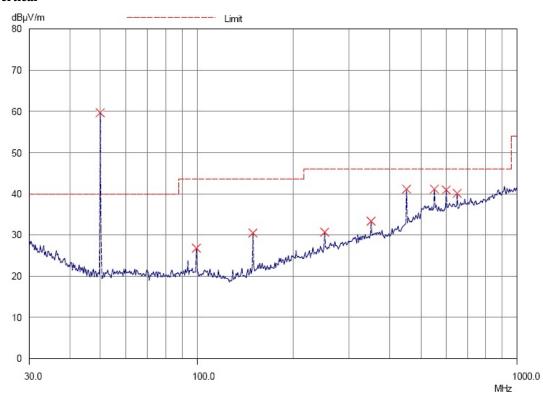
No.: DM125893

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Tx mode(30MHz-1GHz): PASS Vertical





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Results of Tx mode(30MHz-1GHz): PASS

Radiated Emissions Quasi-Peak							
Frequency Measured Correction Field Field Limit @3m E-Field							
1 ,	Level @3m	Factor	Strength	Strength		Polarity	
MHz	$dB\mu V$	dB/m	dBμV/m	μV/m	μV/m		
99.72	17.7	9.2	26.9	22.1	150	Vertical	
149.50	21.1	9.4	30.5	33.5	150	Vertical	
249.30	16.6	14.1	30.7	34.3	200	Vertical	
448.74	21.7	19.4	41.1	113.5	200	Vertical	
548.46	19.7	21.5	41.2	114.8	200	Vertical	
598.32	18.8	22.0	40.8	109.6	200	Vertical	
648.18	18.0	22.0	40.0	100.0	200	Vertical	
349.02	16.3	17.0	33.3	46.2	200	Vertical	

Remarks:

No further spurious emissions found between lowest internal frequency and 30MHz.

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty: (9kHz -30MHz): 3.3dB

(30MHz - 1GHz): 4.6dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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3.1.2 Antenna Requirement

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is Monoploe antenna. The antenna gain = 0dBi. User is unable to remove or changed the Antenna.



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3.2 20dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.235

Test Method: ANSI C63.10: 2013 (Section 13.1.7)

Test Date: 2016-12-06 Mode of Operation: Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Spectrum Analyzer Setting:

RBW: 3kHz VBW: 10kHz Sweep: Auto Trace: Max. hold

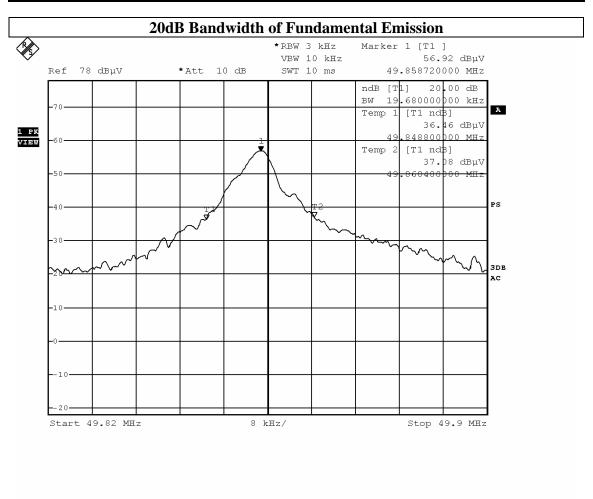


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Limits for 20dB Bandwidth of Fundamental Emission:

Fl(MHz)	Fh(MHz)	Permitted frequency range(MHz)	Result
49.8488	49.8604	49.82-49.90	Compliant



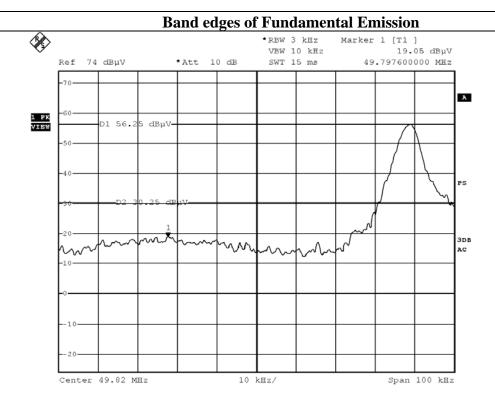


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Limits for Band edges of Fundamental Emission:

The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in §15.209, whichever permits the higher emission levels.

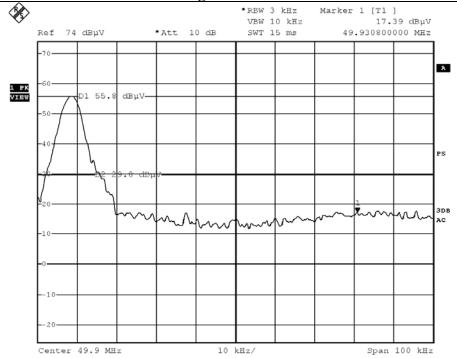




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Band edges of Fundamental Emission





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Appendix A

List of Measurement Equipment

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EMD004	LISN	ROHDE & SCHWARZ	ESH3-Z5	100102	2016.3.29	2017.3.29
EMD022	EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100314	2016.3.29	2017.3.29
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2016.3.29	2017.3.29
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB 26	100388	2016.3.29	2017.3.29
EMD041	TWO-LINE V- NETWORK	ROHDE & SCHWARZ	ENV216	100261	2016.3.29	2017.3.29
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2016.11.29	2017.11.29
EMD062	Double-Ridged Waveguide (1GHz – 18GHz)	ETS.LINDGREN	3117	00075933	2016.11.15	2017.11.15
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A	N/A
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	N/A	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	N/A	N/A
EMD111	Power meter	ROHDE & SCHWARZ	NRVD	102051	2016.3.29	2017.3.29
	100V Insertion Unit	ROHDE & SCHWARZ	URV5-Z4	100464	2016.3.29	2017.3.29
EMD113	Pre-Amplifier	ROHDE & SCHWARZ	N/A	1129588	2016.3.29	2017.3.29
EMD124	Loop Antenna	ETS-Lindgren	6502	00104905	2015.04.28	2017.04.28
EMD131	Standard Gain Horn Antenna (18GHz – 26.5GHz)	Chengdu AINFO Inc.	JXTXLB-42- 15-C-KF	J2021100721001	2015.04.09	2017.04.09
RE01	RF cable	N/A	N/A	N/A	2016-9-28	2018-9-27
RE02	RF cable	N/A	N/A	N/A	2016-9-28	2018-9-27

Remarks:-

N/A Not Applicable or Not Available



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Appendix B

Photographs of EUT

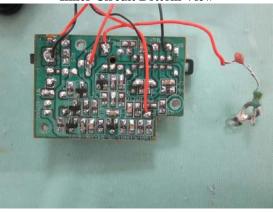
Front View of the product



Inside View of the product



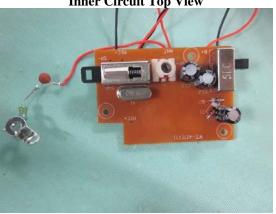
Inner Circuit Bottom View



Rear View of the product



Inner Circuit Top View



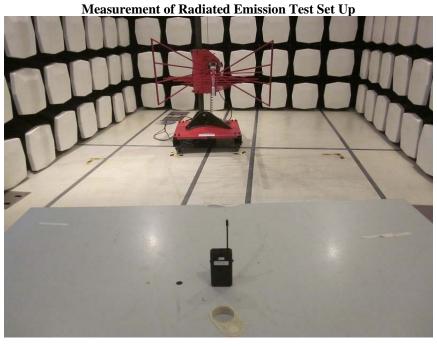


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Photographs of EUT





***** End of Test Report *****

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