



File reference No.: 2021-09-27

Applicant: SHENZHEN FORM ELECTRONICS CO. LTD.

Product: BT Micro Speaker/Charger

Model No.: SSX21P150, SSX21P151, SSX21P149

Brand Name: Snap-on

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 &FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: Sep 27, 2021

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2021-09-27



Test Report Conclusion

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The report refers only to the sample tested and does not apply to the bulk.

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: SHENZHEN FORM ELECTRONICS CO. LTD.

Address: 4F Bldg E, JunFeng Industrial Park, Lezhujiao, Xixiang, Bao'an Dist, Shenzhen, China, 518103

Telephone: 15338707574

Fax: --

1.3 Description of EUT

Product: BT Micro Speaker/Charger

Manufacturer: SHENZHEN FORM ELECTRONICS CO. LTD.

Address: 4F Bldg E, JunFeng Industrial Park, Lezhujiao, Xixiang, Bao'an Dist, Shenzhen,

China, 518103

Brand Name: Snap-on Additional Brand Name: N/A

Model Number: SSX21P150

Additional Model Name SSX21P151, SSX21P149

Hardware Version: FM0160C-M-V0.9 2021-07-02

FM0160C-LED-2021-05-20 V03 FM0160C-DC-V0.3 2021-07-12

Software Version: 423E2E6F+BT Micro SpeakerCharger 20210712 1945

Serial No.: SSX21P15021080006 Rating: Input: DC5V, 1A, 5W

Power Supply: Model: W&T-AD1806B050100U

Input:100-240V~, 50/60Hz 0.25A

Output: DC5V, 1000mA

Battery: DC7.4V, 4400mAh, 32.56Wh Li-ion battery Modulation Type: GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)

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Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain 1.08dBi Max (Get from the antenna specification provided

by the applicant)

1.4 Submitted Sample: 3 pc

1.5 Test Duration

2021-07-08 to 2021-09-22

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty = 6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-06-18	2022-06-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	-	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	1	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

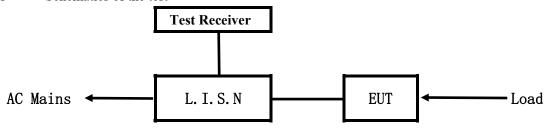
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

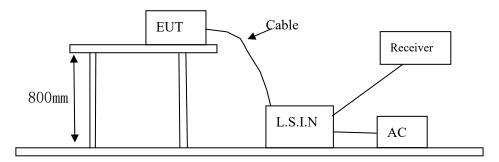


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 -2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
BT Micro	SHENZHEN FORM ELECTRONICS	SSX21P150,	
	CO. LTD.	SSX21P151,	2AAL7-SSX21P149-151
Speaker/Charger	CO. LID.	SSX21P149	

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

8 8 1						
Frequency	Limits (dB µ V)					
(MHz)	Quasi-peak Level	Average Level				
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*				
$0.50 \sim 5.00$	56.0	46.0				
$5.00 \sim 30 00$	60.0	50.0				

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

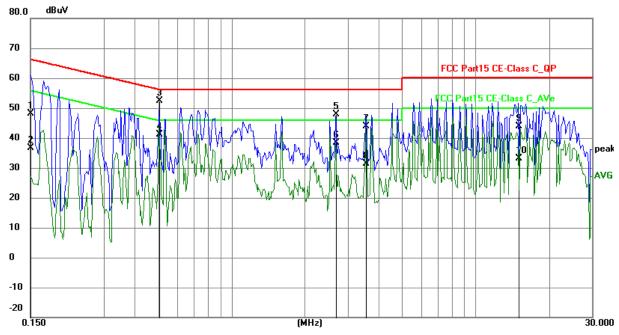
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

Model: SSX21P150

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	38.25	9.79	48.04	66.00	-17.96	QP	Р
2	0.1500	26.83	9.79	36.62	56.00	-19.38	AVG	Р
3	0.5049	42.54	9.77	52.31	56.00	-3.69	QP	Р
4	0.5049	31.46	9.77	41.23	46.00	-4.77	AVG	Р
5	2.6733	38.12	9.83	47.95	56.00	-8.05	QP	Р
6	2.6733	28.49	9.83	38.32	46.00	-7.68	AVG	Р
7	3.5577	33.96	9.87	43.83	56.00	-12.17	QP	Р
8	3.5577	21.41	9.87	31.28	46.00	-14.72	AVG	Р
9	15.0432	33.51	10.38	43.89	60.00	-16.11	QP	Р
10	15.0432	22.78	10.38	33.16	50.00	-16.84	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

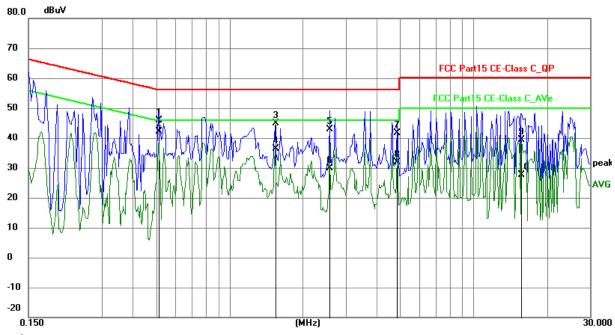
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

Model: SSX21P150

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5127	36.16	9.77	45.93	56.00	-10.07	QP	Р
2	0.5127	32.45	9.77	42.22	46.00	-3.78	AVG	Р
3	1.5384	35.11	9.80	44.91	56.00	-11.09	QP	Р
4	1.5384	26.46	9.80	36.26	46.00	-9.74	AVG	Р
5	2.5679	33.13	9.82	42.95	56.00	-13.05	QP	Р
6	2.5679	20.08	9.82	29.90	46.00	-16.10	AVG	Р
7	4.8720	31.72	9.92	41.64	56.00	-14.36	QP	Р
8	4.8720	21.98	9.92	31.90	46.00	-14.10	AVG	Р
9	15.7140	28.88	10.42	39.30	60.00	-20.70	QP	Р
10	15.7140	17.26	10.42	27.68	50.00	-22.32	AVG	Р

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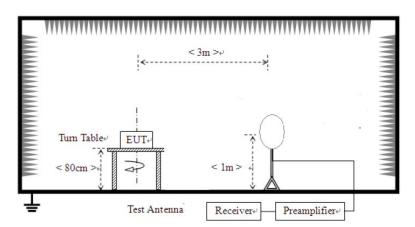


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

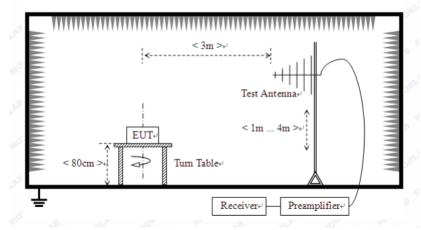
For radiated emissions from 9kHz to 30MHz



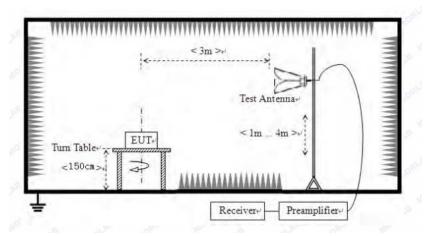
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT
 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency Field Streng			Strength of Fundamental (3m)			trength of Harmo	nics (3m)
	(MHz)	mV/m	dBuV/m		uV/m	dBuV/m	
	2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. Battery full charged during tests.
- 6. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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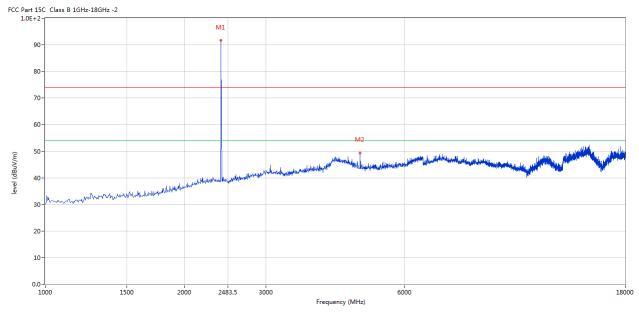


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal



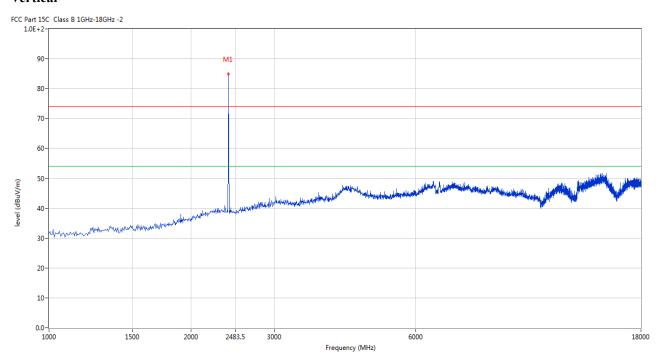
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.149	91.69	-3.57	114.0	-22.31	Peak	151.00	100	Horizontal	Pass
2	4802.799	49.38	3.12	74.0	-24.62	Peak	142.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.149	84.85	-3.57	114.0	-29.15	Peak	38.00	100	Vertical	Pass

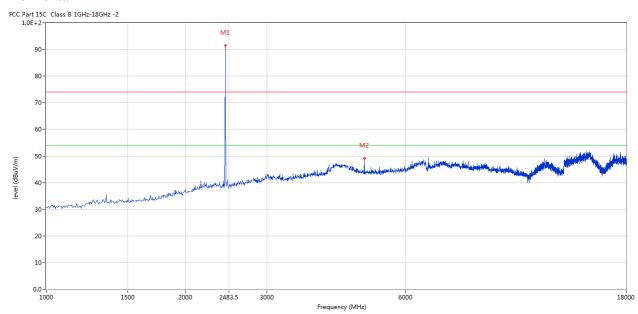
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



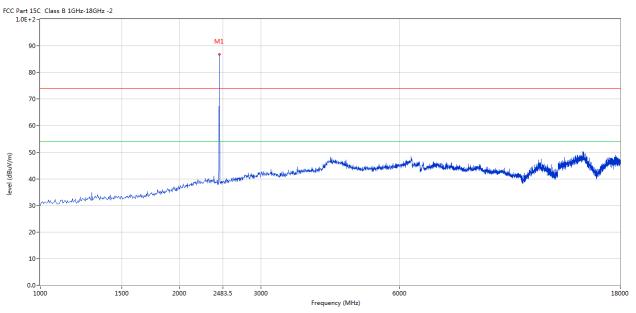
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	91.44	-3.57	114.0	-22.56	Peak	155.00	100	Horizontal	Pass
2	4879.280	49.22	3.20	74.0	-24.78	Peak	275.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.390	86.76	-3.57	114.0	-27.24	Peak	35.00	100	Vertical	Pass

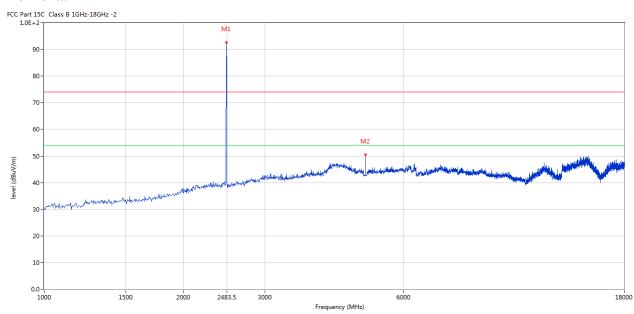
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



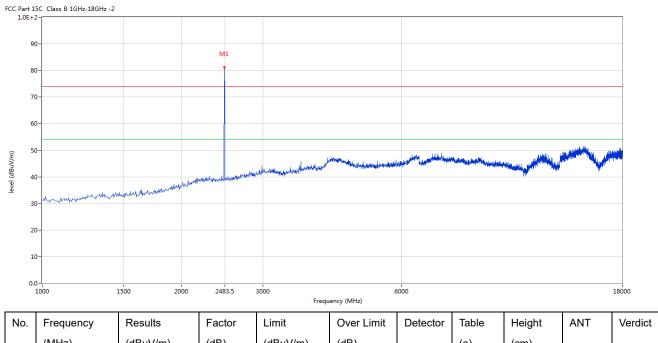
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	92.65	-3.57	114.0	-21.35	Peak	160.00	100	Horizontal	Pass
2	4960.010	50.41	3.36	74.0	-23.59	Peak	156.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2479.630	81.24	-3.57	114.0	-32.76	Peak	346.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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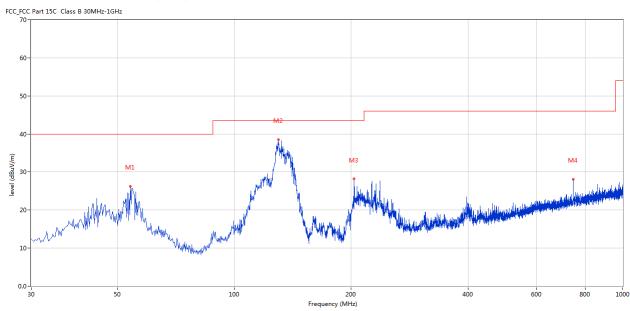


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	54.001	26.21	-11.54	40.0	-13.79	Peak	123.00	100	Horizontal	Pass
2	129.885	38.52	-16.79	43.5	-4.98	Peak	311.00	100	Horizontal	Pass
3	203.587	28.15	-13.48	43.5	-15.35	Peak	21.00	100	Horizontal	Pass
4	745.196	28.03	-3.44	46.0	-17.97	Peak	353.00	100	Horizontal	Pass

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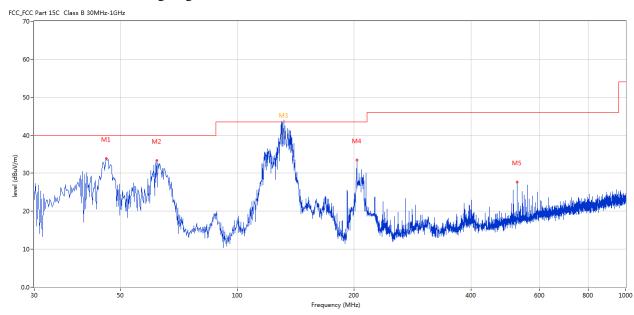


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	46.001	33.87	-11.40	40.0	-6.13	Peak	341.00	100	Vertical	Pass
2	62.002	33.38	-13.26	40.0	-6.62	Peak	345.00	100	Vertical	Pass
3	131.825	43.57	-16.98	43.5	0.07	Peak	326.00	100	Vertical	N/A
3*	131.825	40.16	-16.98	43.5	-3.34	QP	326.00	100	Vertical	Pass
4	203.102	33.52	-13.44	43.5	-9.98	Peak	315.00	100	Vertical	Pass
5	525.061	27.68	-6.55	46.0	-18.32	Peak	341.00	100	Vertical	Pass

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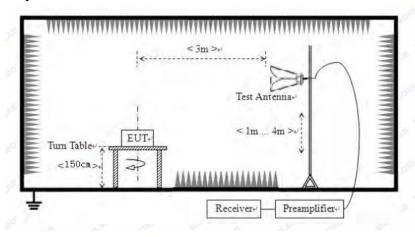


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

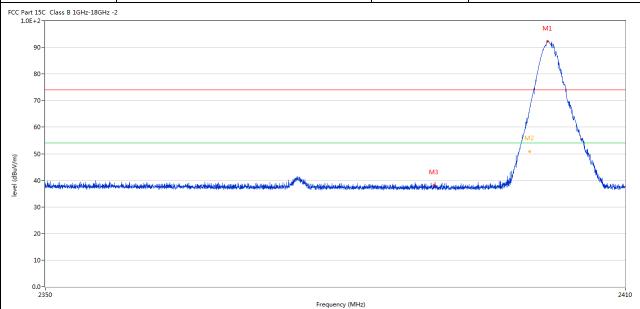
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7.6 Test Result

Product:	BT Micro Speaker/Charger	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2	2399.983	66.30	-3.57	74.0	-7.70	Peak	145.00	100	Horizontal	Pass
2**	2399.983	50.76	-3.57	54.0	-3.24	AV	145.00	100	Horizontal	Pass
3	2390.055	38.28	-3.53	74.0	-35.72	Peak	25.00	100	Horizontal	Pass

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]	Product:	BT N	Aicro Spea	ker/Charger	I	Detector		Ve	rtical	
	Mode	K	eeping Tra	nsmitting	Tes	st Voltage		DC	7.4V	
Те	mperature		24 deg	. C,	Н	Iumidity		56%	% RH	
Te	est Result:		Pas	S						
CC Part 1 1.0E+	15C Class B 1GHz-18GHz 2-	-2								
9	10-							N	11	
8	60-								*	
7	70-								1	
6	0-								-	
. 5	60-							M2 •	M	
4	10-	halaha estendik dajan dajah kalandi jahan da	al participation of the state o	en al ramine a de alemante de la companya de la co	ndrák o zapřek sporzana jehodných kulova	M3	the standard place and the standard place and the standard place and the standard place and the standard place	- Wilderland	*\v_	
3	0-									
2	0-									
	0-									
1										
0.	.0-									
0.	0- 2350			Fre	equency (MHz)					2410
0.	Frequency	Results	Factor	Fre Limit	Over Limit	Detector	Table	Height	ANT	
0.	2350	Results (dBuV/m)	Factor (dB)	1	1	Detector	Table (o)	Height (cm)	ANT	
0. N o.	Frequency			Limit	Over Limit	Detector Peak		_	ANT Vertical	
0.	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(o)	(cm)		Verdic

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Product:	BT Micro Speaker/Charger	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
2C Part 15C Class B 1GHz-18GHz -2 1.0E+2- 90- 80-	No. of the second secon		
70-			

	90-	- The state of the	
	80-		
	70-	M.	
	60-	and the same of th	
nV/m)	50-	· · · · · · · · · · · · · · · · · · ·	Throw have
level (dBuV/m)	40-	Nicholand agentus rechardes with the control of surject to the control of the con	The second distributed his structure of construction of the constr
	30-		
	20-		
	10-		
	0.0 - 24	70 248	3.5 2500 Frequency (MHz)

No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
2	2483.212	58.77	-3.57	74.0	-15.23	Peak	163.00	100	Horizontal	Pass
2**	2483.212	49.11	-3.57	54.0	-4.89	AV	163.00	100	Horizontal	Pass

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J	Product:	BIL	Micro Spea	aker/Charger		etector		Ve	rtical	
	Mode	K	eeping Tra	nsmitting	Tes	t Voltage		DC	C7.4V	
Те	mperature		24 deg	g. C,	Н	umidity		569	% RH	
Te	est Result:		Pas	s						
CC Part 1	15C Class B 1GHz-18GHz	-2								
0	10-									
9				N						
8	80-			1						
7	70-			7						
6	60-		f	The state of the s						
				116						
	io-	/ار	,	APK						
		g de la companya de		Jak Wall	l _{Mu}					
	10 - M.) administrative demonstrative designations	hand a state of the state of th		· Ar	long Andrewskingtherstonder, and be-	ببرينة أوخر فورائي فيتحد أبدنة الافتران.	omidentis proprieti be equ	u Marakan ya makan dak daha da ka	nti anghina ang pandhanahanahan da pala na ghati na	hijidharida Madiy
5	10-	i mije nakoninimu zele i kriji politik		No.	أبهم المعادد فسيط لعديا وسيله وسلطان	, a salah pangangan	puidentiningumeitneap	u Pauda-, iga elifa parri, idapelifar saar	ni adio ay nikabusa sa da sa da sa	hadden the sealty
5 4	10-	transportunismus mades la britis de la companya de		J. John J. John J.	in here in the second s	and the state of t	puid de adrinos propositivos de pr	u Pauden, ffe eller party jakrelifer elser	ricafferanji ndombushasa dera dipin	h, philippide Areal).
(III/Angap) 19A21 3	10 - Advantación de la composition della composi	lander state de la constant de la co			Profesional desiration and des	يبستان أو يورون أو والمنافرة والمنافرة المنافرة المنافرة المنافرة المنافرة والمنافرة المنافرة المنافرة المنافرة	oni tankin napusa ilmas o	e Paula na fije vilske jegen pilopelje o agen	ri affar ag rakensasasat na figin	hyddwdd Arab,
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5 4 3 2	10 - in standarde de la compansión de la	transfer standards standards de printer de la companya de la companya de la companya de la companya de la comp		2483.5 Fre	equency (MHz)	uniago electris descende	omittanion negocion d'un topo	u tarku sije dise par sidebilikarian	ri uglea egipulprotasaksis d va glea	2500
3 2 1 0.	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor			Detector	Table	Height	ANT	2500
5 4 3 2 1 0.	0	4-11/2 (1977)	Factor (dB)	Fre	equency (MHz)					2500
5 4 3 2 1 1 0.	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-	Results		Limit	equency (MHz) Over Limit		Table	Height		

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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8.0 Antenna Requirement

Applicable Standard

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.

This product has a PCB antenna with gain 1.08dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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FSK Modulation	D.T.A.C.	G 1	/01		T	3.6.1		17 .	••	
Product:		o Speaker	_			Mode:		Keep tra		5
Mode		ng Transn			Test Voltage					
Temperature		24 deg. C,				midity			RH	
Test Result:					De	tector		Р	K	
OdB Bandwidth 763.53kHz								-		
	Delta 1			RI		30 k		F Att	30 d	В
Ref Lvl 10 dBm	76	-0. 3.527054	.22 dB	VE	3₩ √T	100 ki		nit	đ	Bm
10 abiii	70.	. 52 / 65-	TII KIIZ		<u> </u>			T	<u>u</u>	
						V 1	[T1]	-1		
0			2			-	[m1]	2.4016	0621 GI	Iz
			 	\		▲ ⊥	[T1]	- 3.5270	u.22 a. 5411 ki	3 12
-10				3		∇_2	[T1]	-	0.55 di	
-10								2.4018	7675 GI	Ιz
		<u>1</u> ∕√	$\sqrt{}$		\1					
-20 D1 -20.55	dBIII———	7			-	\				1
						W				
-30						Ĭ	7			
	/	/					\			
-40							- \-			
-50 ····································							<i>√</i> √	W.		
-60									, m	M
-70										
9.0										
-80										
-90 Center 2.40	2 CH2	<u> </u>	300	leur /	I			C~	an 3 MI	

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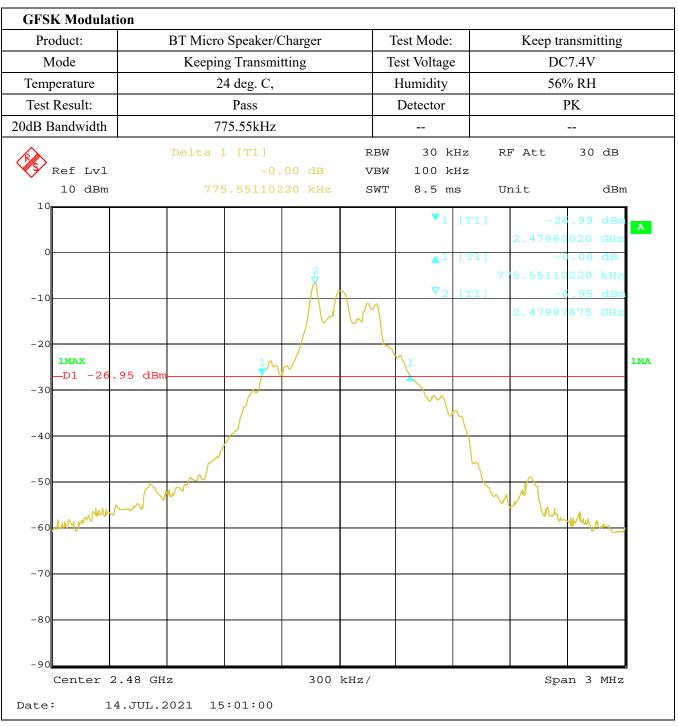


Product:	BT Micro	Speaker/C	Charger		Test Mode:		Keep tr	ansmitting		
Mode	Keepir	ng Transmi	tting	Т	Test Voltage Humidity		DC7.4V 56% RH			
Temperature	2	24 deg. C,								
Test Result:		Pass			Detector		-	PK		
20dB Bandwidth	7	63.53kHz								
	Delta			RBW	30 k	Hz	RF Att	30 dB		
Ref Lvl			19 dB	VBW	100 k					
10 dBm	76	3.527054	ll kHz	SWT	8.5 m	ıs	Unit	dBm	n =	
					\mathbf{v}_1	[T1]	-21	3.13 dBm	A	
0					-	I ma 1	2.44060	621 GHz		
			Į Ž		<u>^</u> 1	[T1]	763.52705	J.19 dB 5411 kHz		
-10				M	∇_2	[T1]	-:	.26 dBm		
							2.44085	7675 GHz		
-20		1		<u>ل</u> م	\ _1					
D1 -23.2	6 dBm		~						1M2	
-30		\sim			M					
						$^{\lambda}$				
-40		po de la companya de								
	سم ا					M				
-50						4	$\bot \triangle$			
-60							Mr. Mr.			
-6041							V	il which		
-70										
, ,										
-80										
- 60										
-90										
Center 2.	441 GHz		300	kHz/			Spa	an 3 MHz		
Date: 14.	JUL.2021 14	4:17:48								

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Product:	BT I	Micro	Speaker/C	Charger		Tes	t Mode:		Keep tra	ansmitting		
Mode	K	eepin	g Transmi	tting		Test	t Voltage		DC7.4V			
Temperature		24	4 deg. C,			Нι	ımidity	56% RH				
Test Result:	Pass					D	etector		PK			
0dB Bandwidth		1.	118MHz									
	Mar	ker	1 [T1 n	idB]	RB	W	30 kF	Iz RI	7 Att	30 dB		
Ref Lvl	ndE			00 dB	VB		100 kF					
10 dBm	BW	1	.118236	47 MHz	SW'	Г	8.5 ms	5 U1	nit	dBm	1	
							v ₁	[T1]	-1	l.60 dBm	A	
0					1				2.40216	533 GHz		
				^ /	\ \ \		ndB BW	· · ·	20 1.11823	0.00 dB 8647 MHz		
1.0					$\bigcup \bigcup$		bw $oldsymbol{ abla}_{ ext{T1}}$	[T1]	-2(-2(1.99 dBm		
-10			\sim			\	Λ Λ		2.40146	794 GHz		
				\		7		[T1]	-21	l.41 dBm		
-20 1MAX			1				<u> </u>		2.40258	617 GHz	1M	
		\wedge					V	\setminus				
-30			V									
\sim	\wedge								\bigwedge	$1 \sim 1$		
-40		V'						, V	V -	/		
									V	Y		
-50												
-60						+						
-70						+						
-80						+						
-90	100 ====				1 '				_	2		
Center 2.	402 GHz			300	kHz/				Spa	an 3 MHz		

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Product:]	BT Micro	Speaker/C	Charger	7	Test Mode:		Keep tra	nsmitting		
Mode	Keeping Transmitting				Т	est Voltage		DC7.4V			
Temperature		2	4 deg. C,			Humidity	56% RH				
Test Result:	Pass					Detector		PK			
dB Bandwidth	1.136MHz										
R		Marker	1 [T1 n	idB]	RBW	30 ki	Iz RI	7 Att	30 dB		
Ref Lvl		ndB	20.	00 dB	VBW	100 kF	łz				
10 dBm		BW 1	1.136272	55 MHz	SWT	8.5 ms	5 Ur	nit	dBm	ı	
10						v ₁	[T1]	- 4	.27 dBm	Z	
								2.44115	932 GHz		
0					1	ndB		20	.00 dB		
				/\ /	\uparrow \bigwedge	BW ▼ _{T1}	[T1]	1.13627	255 MHz		
-10					\cup	, 11		2.44046			
			\bigwedge			1 1 PT 2	[T1]	-24	.48 dBm		
-20			T/L				2	2.44159	820 GHz		
1MAX			*				1			1M	
-30			V								
-40	$\langle \wedge \rangle$	\sim					hy	__________________	\sim		
-50								S	3		
-60											
-70											
-80											
-90 Center 2	441 CE	ł z		300	kHz/			Sna	n 3 MHz		

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Product:]	BT Micro	Speaker/C	Charger		Test Mode:		Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting		Test Voltage		DC7.4V			
Temperature		2	4 deg. C,			Humidity		56% RH PK			
Test Result:			Pass			Detector					
dB Bandwidth	1.130MHz										
Ŕ		Marker	1 [T1 n	ndB]	RBV	7 30 k	Hz R	F Att	30 dB		
Ref Lvl		ndB		00 dB	VBV						
10 dBm		BW 1	.130260)52 MHz	SWI	. 8.5 m	ıs U	nit	dBn	n =	
10						v ₁	[T1]	-5	.13 dBm	Α	
								2.48015	932 GHz		
0					1	ndI	8	20	.00 dB		
					, Ž	BW ▼ _T :	[T1]	1.13026	052 MHz .91 dBm		
-10				\wedge	1/5		_ [+ +]	2.47946		İ	
			\wedge			▼ _T :	[T1]	-25	.64 dBm	ı	
-20			7		,		2	2.48059	820 GHz	1M	
-30			J								
-40		\bigwedge_{i}						M			
-50		V					٧	W Wy	W		
-60											
-70											
-80											
-90 Center 2	.48 GHz	3		300	kHz/			Spa	ın 3 MHz	J	

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Product:	B	T Micro	Speaker/C	Charger		Т	est Mode:		Keep tra	nsmitting		
Mode		Keepin	g Transmi	tting		To	est Voltage		DC7.4V			
Temperature		2	4 deg. C,		Humidity				56% RH			
Test Result:		Pass				Detector			PK			
0dB Bandwidth		1.160MHz										
r)	М	arker	1 [T1 n	ndB]	R	BW	30 k	Hz Rl	F Att	30 dB		
Ref Lvl		dB 1		00 dB		BW	100 ki		-: -	dD		
10 dBm	В	W 1	.160320	064 MHZ		SWT	8.5 m	S UI	nit	dBm	l i	
							v 1	[T1]	-1	.49 dBm	A	
0					1		ndB		2.40203	307 GHz		
				\ \ (Λ		BW		1.16032			
-10						Д	$ abla_{\mathrm{T1}}$	[T1]	-21	.34 dBm		
			\wedge		$ \bigvee$		$\wedge \wedge$		2.40144	990 GHz		
-20			T/L W	۸٫/		V	^ ^ /	2 ^[T1]	-21	.11 dBm		
1MAX		/	J						2.40261	022 GHz	1M2	
-30	د س								Λ. a	\wedge		
-40		\sim								\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
-50	V.											
-60												
-70												
-80												
-90	2.402 GHz	-		300	kHz/				C	n 3 MHz		

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Product:		BT Micro	Speaker/0	Charger		Г	est Mode:	_	Keep tra	ansmitting		
Mode		Keepin	g Transmi	tting		Test Voltage			DC7.4V			
Temperature			4 deg. C,				Humidity	56% RH				
Test Result:		Pass					Detector		PK			
OdB Bandwidth		1.	.160MHz					_				
Ŕ		Marker	1 [T1 n	ndB]	F	RBW	30 kH	z Ri	F Att	30 dB		
Ref Lvl		ndB		00 dB	7	/BW	100 kH					
10 dBm		BW 1	L.160320)64 MHz	S	SWT	8.5 ms	Uı	nit	dBm	1 -	
10							v ₁ [[T1]	- 4	.08 dBm	A	
0									2.44103	307 GHz		
					1		ndB BW		1.16032	0.00 dB		
1.0				/\ /	[\		$oldsymbol{ abla}_{ ext{T1}}$	[T1]	-23	064 MHz		
-10						$\overline{\Lambda}$			2.44044	990 GHz		
					\ \footnote{\chi_{\text{\chi}}}			[T1]	-23	.52 dBm		
-20 1MAX			T/L W_	N		•	Y	2	2.44161	022 GHz	1M	
-30												
-50	_\\\	$\bigwedge_{\mu} \int$						han her	\sqrt{N}			
		,								•		
-60												
-70												
-80												
-90 Center 2	2.441 GH	Hz		300	kHz/	,			l Spa	n 3 MHz	!	
ate: 1	4.JUL.2		:20:26						_			

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Product: BT Micro			Speaker/Charger			Test Mode:			Keep transmitting DC7.4V		
Mode		Keeping Transmitting					Test Voltage				
Temperature	24 deg. C, Pass 1.166MHz					Humidity Detector		56% RH PK			
Test Result:											
dB Bandwidth											
(Marker	1 [T1 n	.dB]	R	BW	30 kH:	z Rl	F Att	30 dB	
Ref Lvl		ndB		00 dB	V	BW	100 kH:	z			
10 dBm		BW 1	L.166332	67 MHz	S	WT	8.5 ms	Uı	nit	dBm	1
10							V 1 [T1]	-6	.93 dBm	A
									2.48003	307 GHz	
0					1		ndB		20	.00 dB	
				0 /	7		BW ▼ _{T1}	[T1]	1.16633	267 MHz	
-10				/\ _/		Λ			2.47944		
			~		\ N	$' \setminus $	\wedge ∇ T2	[T1]	-26	.98 dBm	
-20 1MAX			T/L	~	V	V	7		2.48061	623 GHz	1M
-30			J					\ \			
-50	\wedge								M	d 0	
\ <u></u>	mus /	Mw						What			
-70											
-80											
Center 2	.48 GHz	:		300	kHz/	<u>'</u>	·		Spa	ın 3 MHz	

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10.0 FCC ID Label

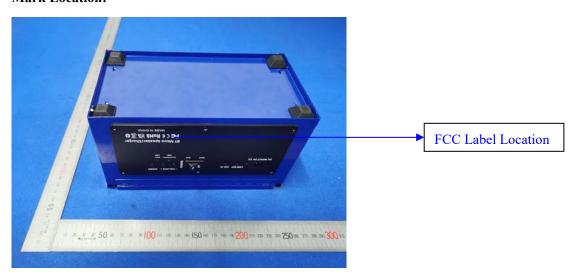
FCC ID: 2AAL7-SSX21P149-151

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View--



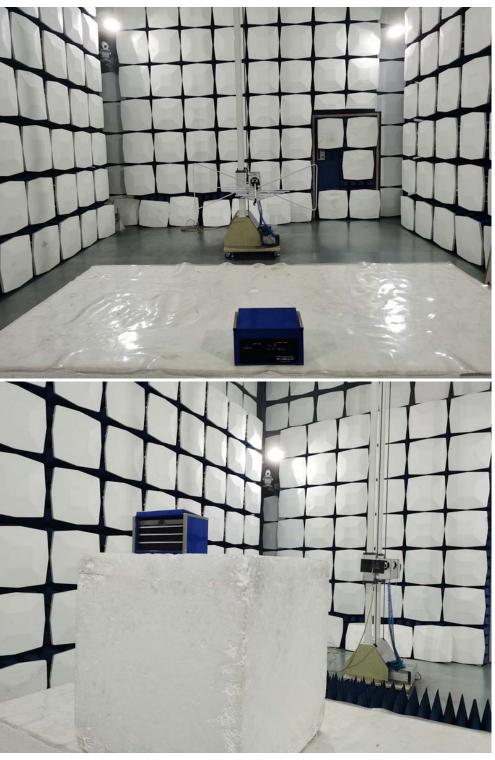
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Radiated emission test view



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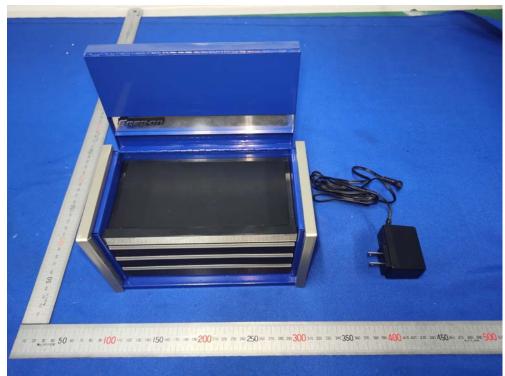
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11.2 Photographs – EUT

Outside View





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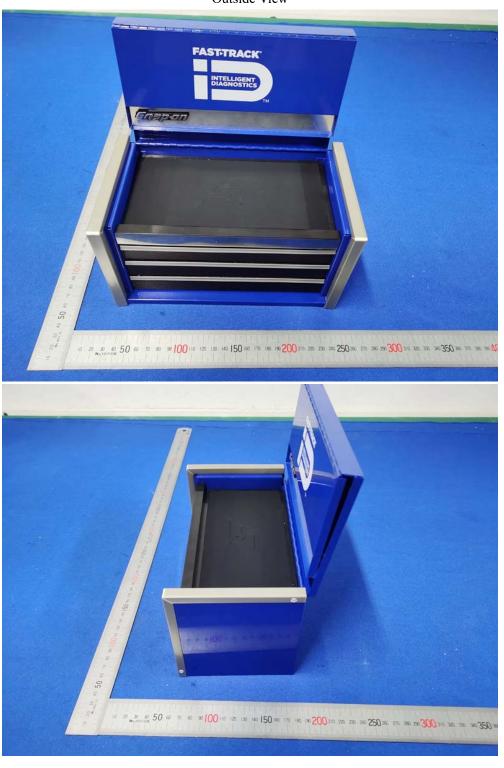
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Photographs – EUT

Outside View



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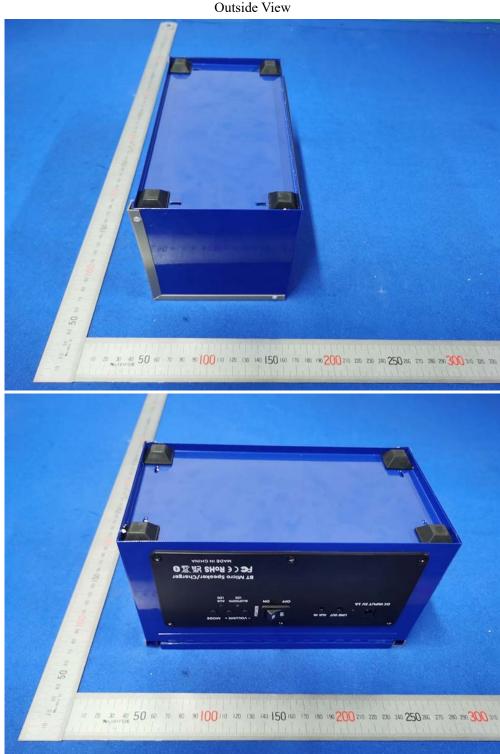
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Inside View





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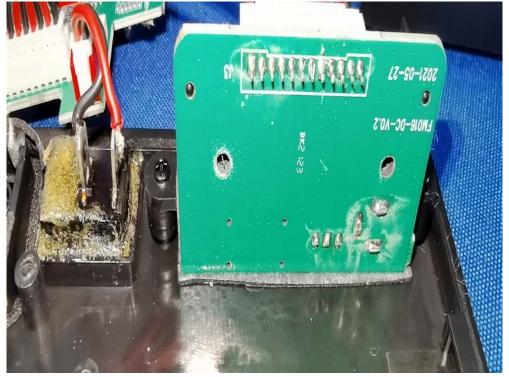
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Inside View





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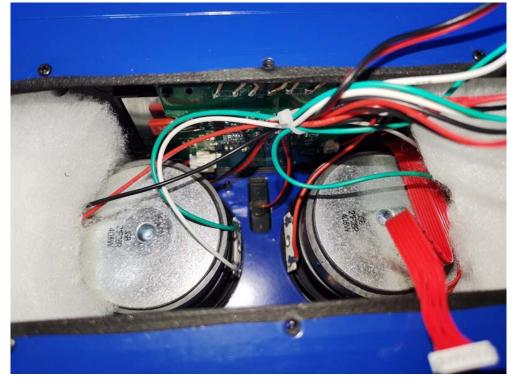
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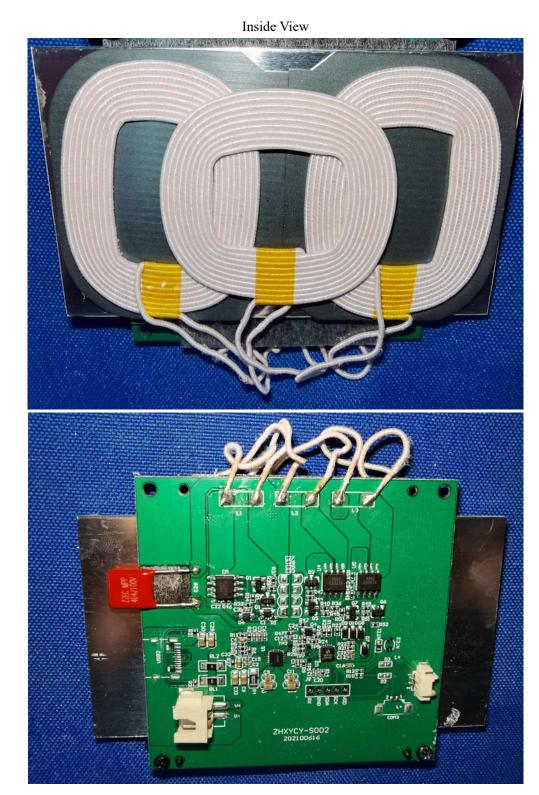
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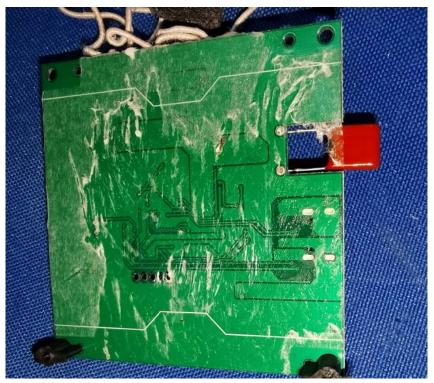
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Inside View



-- End of the report--