

Report No.: DDT-R21120912-2E03

Issued Date: Dec. 30, 2021

FCC CERTIFICATION TEST REPORT

FOR

Applicant	•	Harman International Industries, Inc.	
Address	•	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	
Equipment under Test	••	Portable Bluetooth Speaker	
Model No.	••	CHARGE5H	
Trade Mark	• •	JBL	
FCC ID	•	APIJBLCHARGE5H	
Manufacturer	•	Harman International Industries, Inc.	
Address		8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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Test Report Declare

Report No.: DDT-R21120912-2E03

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Address	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	
Equipment under Test	• •	Portable Bluetooth Speaker	
Model No.	:	CHARGE5H	
Trade Mark	÷	JBL ® ®	
Manufacturer	4.1	Harman International Industries, Inc.	
Address	/ -	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C.

Test Procedure Used:

ANSI C63.10:2013.

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No.:	DDT-R21120912-2E03		
Date of Receipt:	Dec. 16, 2021	Date of Test:	Dec. 16, 2021 ~ Dec. 30, 2021

Prepared By:

Ben Jin/Engineer

Damon Hu/EMC Manager

Approved By:

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue	Dec. 30, 2021	
		nR	<i>J</i> *

1. Summary of Test Results

Description of Test Item	Standard	Results
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2013 RSS-247 Issue 2 RSS-Gen Issue 5	Pass
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:2013 RSS-Gen Issue 5	Pass

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Note:

a. This report added battery (ICA086NA) on the basis of the report DDT-R20070616-1E6 and DDT-R20070616-1E6 Rev.01, this change based on engineering judgment that only Radiated Emission (below 1 GHz) and Power Line Conducted Emissions need to test.

b. Please refer to report DDT-R20070616-1E6 and DDT-R20070616-1E6 Rev.01 for the original data.

2. General Test Information

2.1. Description of EUT

EUT* Name	Portable Bluetooth Speaker	
Model Number	: CHARGE5H	
EUT Function Description	: Please reference user manual of this device	
Power Supply	DC 5V from external AC Adapter DC 3.6V 7500mAh Polymer Li-ion built-in battery	
Radio Specification	: Bluetooth V5.1	
Operation Frequency	: 2407 MHz - 2475 MHz	
Modulation	: GFSK, π/4-DQPSK, 8DPSK	
Data Rate	: 1 Mbps, 2 Mbps, 3 Mbps	
Antenna Type	: FPC antenna, maximum PK gain: 2.26 dBi	
Serial number	ND0793-LL0358427 for radiation test	

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Note: EUT is the abbreviation of equipment under test.

Channel Inform					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2407	27	2434	54	2461
1 @	2408	28 🌸	2435	55 💿	2462
2	2409	29	2436	56	2463
3	2410	30	2437	57	2464
4	2411	31	2438	58	2465
5	2412	32	2439	59	2466
6	2413	33	2440	60	2467
7	2414	34	2441	61	2468
8	2415	35	2442	62	2469
9	2416	36	2443	63	2470
10	2417	37	2444	64	2471
11	2418	38	2445	65	2472
12	2419	39	2446	66	2473
13	2420	40	2447	67	2474
14	2421	41	2448	68	2475
15	2422	42	2449		K Jr
16	2423	43	2450		
17	2424	44	2451		
18	2425	45	2452		
19	2426	46	2453		
20	2427	<u> </u>	2454	@	
21	2428	48	2455		-
22	2429	49	2456		
23	2430	50	2457		
24	2431	51	2458		
25	2432	52	2459		
26 🔞	2433	53 ®	2460	(R)	

2.2. Accessories of EUT

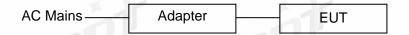
Description of Accessories	Manufacturer	Model number	Description	Remark
USB cable	Harman	N/A	N/A	Length: 1.2m, unshielded

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2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Adapter	SAMSUNG	EP-TA200	Input: 100-240~, 50/60Hz, 0.5A; Output: 9V/1.67A or 5V/2A	N/A

2.4. Block diagram of EUT configuration for test



Test software: FCCTool.EXE

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK hopping on Tx mode	/	CH0 to CH68	2405 to 2475
π /4-DQPSK hopping on Tx mode	1	CH0 to CH68	2407 to 2475
8DPSK hopping on Tx mode		CH0 to CH68	2407 to 2475
		CH0	2407
GFSK hopping off Tx mode		CH34	2441
		CH68	2475
	/	CH0	2407
$\pi/4$ -DQPSK hopping off Tx mode	/	CH34	2441 [®]
	/	CH68	2475
	/	CH0	2407
8DPSK hopping off Tx mode	1	CH34	2441
	1	CH68	2475

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 ℃
Humidity range:	40-75%
Pressure range:	86-106 kPa

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2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty			
Bandwidth	1.1%			
Pools Output Dower (Conducted) (Chartery Analyzar)	$0.86 \text{ dB } (10 \text{ MHz} \le f < 3.6 \text{ GHz});$			
Peak Output Power (Conducted) (Spectrum Analyzer)	1.38 dB (3.6 GHz ≤ f < 8 GHz)			
Peak Output Power (Conducted) (Power Sensor)	0.74 dB			
Down On a start Down it.	0.74 dB (10 MHz ≤ f < 3.6 GHz);			
Power Spectral Density	1.38 dB (3.6 GHz ≤ f < 8 GHz)			
Evanuaraiaa Otahilitu	6.7 x 10 ⁻⁸ (Antenna couple method)			
Frequencies Stability	5.5 x 10 ⁻⁸ (Conducted method)			
	0.86 dB (10 MHz ≤ f < 3.6 GHz);			
Conducted Spurious Emissions	1.40 dB (3.6 GHz ≤ f < 8 GHz)			
	1.66 dB (8 GHz ≤ f < 22 GHz)			
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10 ⁻⁸			
Temperature	0.4 °C			
Humidity	2 %			
Uncertainty for Radiation Emission Test	4.70 dB (Antenna Polarize: V)			
(30 MHz - 1 GHz)	4.84 dB (Antenna Polarize: H)			
	4.10 dB (1-6 GHz)			
Uncertainty for Radiation Emission Test	4.40 dB (6 GHz - 18 GHz)			
(1 GHz - 40 GHz)	3.54 dB (18 GHz - 26 GHz)			
	4.30 dB (26 GHz - 40 GHz)			
Uncertainty for Power Line Conduction Emission Test	3.32 dB (150 kHz - 30 MHz)			

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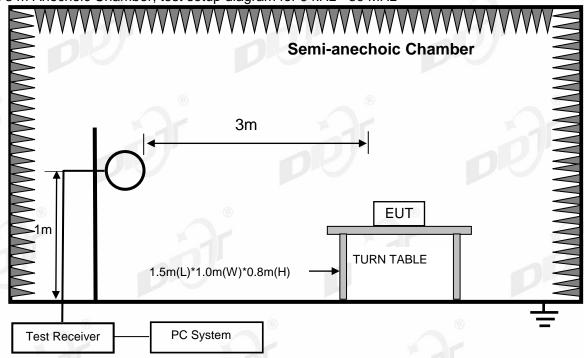
3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
⊠Radiation 3#chamb	per		®	8	
EMI Test Receiver	R&S	ESU	100472	Jun. 01, 2021	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 01, 2021	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02108	Jul. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 08, 2021	1 Year
Pre-amplifier	COM-POWE R	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWE R	PAM-840A	461369	Mar. 15, 2021	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
⊠Power Line Condu	cted Emissions	Test 1#		•	
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 02, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 02, 2021	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
LISN 3	SCHWARZB ECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

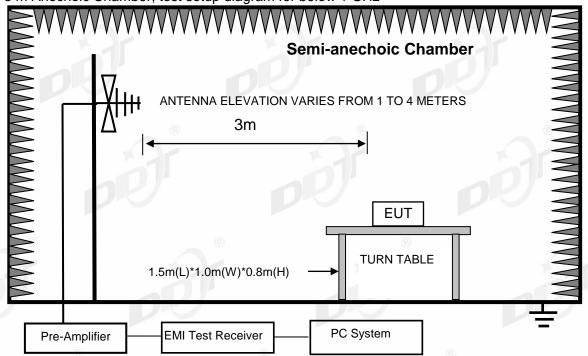
4. Radiated Emission

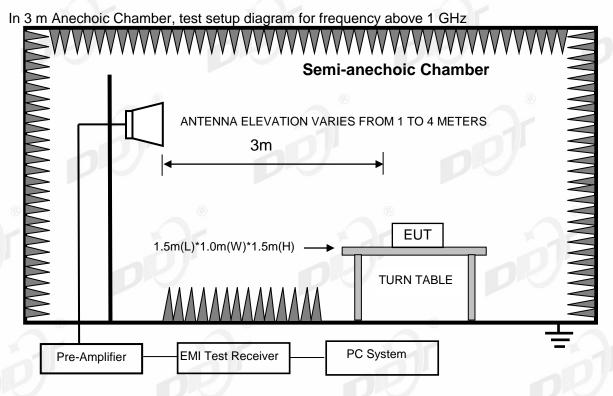
4.1. Block diagram of test setup

In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz



In 3 m Anechoic Chamber, test setup diagram for below 1 GHz





Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

4.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit.

Frequency (MHz)	Measurement distance (meters)	Field strength limit			
		μV/m	dB(μV)/m		
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)		
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)		
1.705 ~ 30.0	30	30	29.54		
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	[®] 500	54.0		
Above 1000	3	74.0 dB(μV) 54.0 dB(μV)/n			

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Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

 $Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

4.3. Test procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1 G and 150 cm above the ground plane inside a semi-anechoic chamber for above 1 G.
- (2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance		
9 kHz - 30 MHz	Active Loop antenna	3 m		
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m		
1 GHz - 18 GHz	Double Ridged Horn Antenna	3 m		
	(1 GHz - 18 GHz)			
18 GHz - 40 GHz	Horn Antenna	1 m		
	(18 GHz - 40 GHz)			

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical

axis for maximum response at each azimuth position around the EUT. And the loop antenna also is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. For measurement above 30 MHz, the trilog Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

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- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:
- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)
 - (b) Change work frequency or channel of device if practicable.
 - (c) Change modulation type of device if practicable.
 - (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz -490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

- (7) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; according ANSI C63.10:2013 clause 4.1.4.2 procedure for average measure.
- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

4.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test no any obvious emission was detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 8-DPSK, Tx 2407 MHz mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1 GHz)

TR-4-E-009 Radiated Emission Test Result

D:\2021 report data\Q21120912-2E JBL **Test Site** : DDT 3m Chamber 3#

CHARGE5H\FCC BELOW 1G\FCC BELOW

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1G_00005.EMI

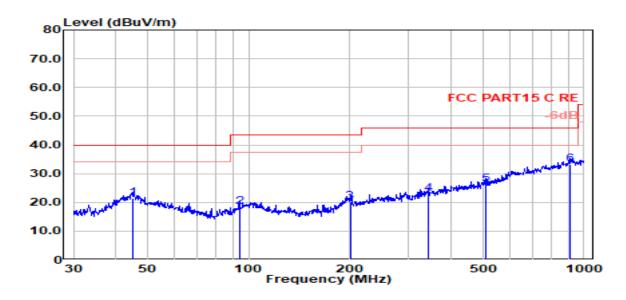
Test Date : 2021-12-21 **Tested By** : James

EUT : Portable Bluetooth Speaker **Model Number** : CHARGE5H

Power : Battery **Test Mode** : TX Mode Supply

: Temp:24.5°, Humi:55%, Press:100.1kPa Antenna/Distance : VLUB 9163 3#/3m/Horizontal Condition

Memo : SRD



		D						The state of the s	
Item (Mark)	Freq.	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	45.22	2.85	14.99	3.62	21.46	40.00	-18.54	QP	Horizontal
2	94.10	3.50	11.01	3.94	18.45	43.50	-25.05	QP	Horizontal
® 3	200.69	4.14	11.75	4.45	20.34	43.50	-23.16	QP	Horizontal
4	344.39	3.42	14.68	4.97	23.06	46.00	-22.94	QP	Horizontal
5	510.04	3.79	17.10	5.50	26.40	46.00	-19.60	QP	Horizontal
6	912.86	4.32	22.36	6.50	33.18	46.00	-12.82	QP	Horizontal

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

TR-4-E-009 Radiated Emission Test Result

D:\2021 report data\Q21120912-2E JBL

Test Site : DDT 3m Chamber 3# CHARGE5H\FCC BELOW 1G\FCC BELOW

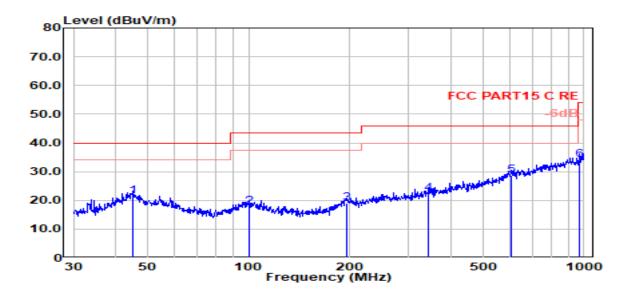
1G_00006.EMI

Test Date : 2021-12-21 Tested By : James

Power Supply : Battery Test Mode : TX Mode

Condition : Temp:24.5°, Humi:55%, Press:100.1kPa Antenna/Distance : VLUB 9163 3#/3m/Vertical

Memo : SRD



Item (Mark)	Freq.	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	45.22	2.77	14.99	3.62	21.39	40.00	-18.61	QP	Vertical
2	100.23	2.46	11.52	3.98	17.96	43.50	-25.54	QP	Vertical
3	195.82	2.66	11.78	4.43	18.88	43.50	-24.62	QP	Vertical
8 4	343.18	2.80	14.63	4.96	22.39	46.00	-23.61	QP	Vertical
5	607.79	3.68	19.20	5.76	28.64	46.00	-17.36	QP	Vertical
6	972.34	5.14	22.25	6.69	34.08	54.00	-19.92	QP	Vertical

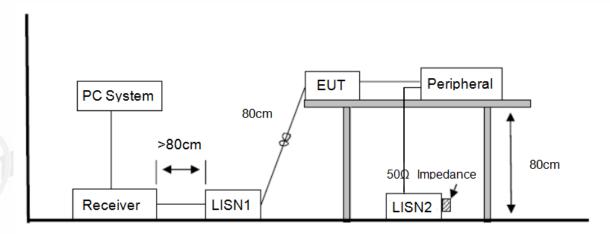
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

5. Power Line Conducted Emission

5.1. Block diagram of test setup



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5.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)		
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*		
500 kHz ~ 5 MHz	56	46		
5 MHz ~ 30 MHz	60	50		

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

5.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest

emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

5.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means Peak detection; "----" means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

TR-4-E-010 Conducted Emission Test Result

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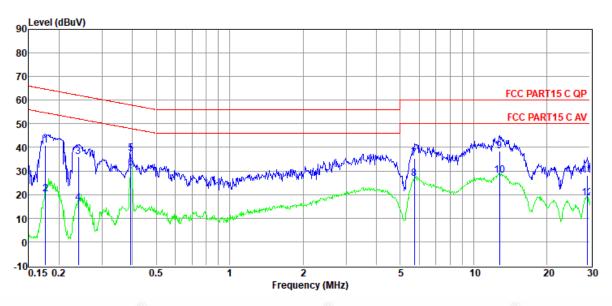
Test Site : DDT 1# Shield Room D:\2021 CE report date\Q21120912-2E\FCC .EM6

Test Date : 2021-12-22 Tested By : Kennys

Power Supply : AC 120V/60Hz Test Mode : TX mode

Condition : TEMP:24.3°C, RH:53.0%, BP:101.0kPa LISN : 2021 1# ENV216/LINE

Memo : SRD



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	1 1"	
1	0.18	21.18	9.71	0.01	9.92	40.82	64.68	-23.86	QP	LINE
2	0.18	0.55	9.71	0.01	9.92	20.19	54.68	-34.49	Average	LINE
3	0.24	16.51	9.76	0.02	9.92	36.21	62.08	-25.87	QP	LINE
4	0.24	-3.30	9.76	0.02	9.92	16.40	52.08	-35.68	Average	W LINE
5	0.39	17.84	9.65	0.02	9.91	37.42	57.99	-20.57	QP	LINE
6	0.39	11.71	9.65	0.02	9.91	31.29	47.99	-16.70	Average	LINE
7	5.71	15.85	9.54	0.07	9.93	35.39	60.00	-24.61	QP	LINE
8	5.71	7.23	9.54	0.07	9.93	26.77	50.00	-23.23	Average	LINE
9	12.78	18.58	9.68	0.13	9.93	38.32	60.00	-21.68	QP	LINE
10	12.78	8.33	9.68	0.13	9.93	28.07	50.00	-21.93	Average	LINE
11	29.22	8.15	9.69	0.20	10.00	28.04	60.00	-31.96	QP	LINE
12	29.22	-1.51	9.69	0.20	10.00	18.38	50.00	-31.62	Average	LINE

Note:

- 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Report No.: DDT-R21120912-2E03

Test Site : DDT 1# Shield Room D:\2021 CE report date\Q21120912-2E\FCC .EM6

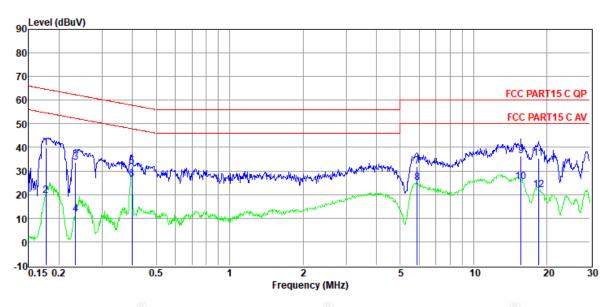
Test Date : 2021-12-22 Tested By : Kennys

EUT : Portable Bluetooth Speaker | Model Number : CHARGE5H

Power Supply : AC 120V/60Hz Test Mode : TX mode

Condition : TEMP:24.3°C, RH:53.0%, BP:101.0kPa LISN : 2021 1# ENV216/NEUTRAL

Memo : SRD



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter	Result Level	Limit Line	Over Limit	Detector	Phase
					Factor					
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	1	
1	0.18	20.07	9.80	0.01	9.92	39.80	64.64	-24.84	QP	NEUTRAL
2	0.18	-0.05	9.80	0.01	9.92	19.68	54.64	-34.96	Average	NEUTRAL
3	0.23	13.84	9.75	0.02	9.92	33.53	62.30	-28.77	QP	NEUTRAL
4	0.23	-7.90	9.75	0.02	9.92	11.79	52.30	-40.51	Average	NEUTRAL
5	0.40	12.38	9.58	0.02	9.91	31.89	57.90	-26.01	QP	NEUTRAL
6	0.40	7.00	9.58	0.02	9.91	26.51	47.90	-21.39	Average	NEUTRAL
7	5.87	12.25	9.66	0.07	9.93	31.91	60.00	-28.09	QP	NEUTRAL
8	5.87	5.25	9.66	0.07	9.93	24.91	50.00	-25.09	Average	NEUTRAL
9	15.64	16.85	9.63	0.15	9.93	36.56	60.00	-23.44	QP	NEUTRAL
10	15.64	5.58	9.63	0.15	9.93	25.29	50.00	-24.71	Average	NEUTRAL
11	18.43	15.54	9.74	0.16	9.95	35.39	60.00	-24.61	QP	NEUTRAL
12	18.43	2.20	9.74	0.16	9.95	22.05	50.00	-27.95	Average	NEUTRAL

Note:

- 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.