

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.	•••	HARGE5H		
Trade Mark	•	BL		
FCC ID	•••	PIJBLCHARGE5H		
Manufacturer		Harman International Industries, Inc.		
Address		8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES		

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

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Test Report Declare

:	Harman International Industries, Inc.	
:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES	
:	Portable Bluetooth Speaker	
:	HARGE5H	
:	BL	
	arman International Industries, Inc.	
	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-R21120912-2E01	71	
Date of Receipt:	Dec. 16, 2021	Date of Test:	Dec. 16, 2021 ~ Dec. 30, 2021

Prepared By:

Ken Jin

Approved By:

Ben Jin/Engineer

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	0
	ppi ppi		7



1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.			
Description of Test Item	Standard	Results	
Radiation Emission	FCC Part 15: 15.247 ANSI C63.10:2013	Pass	
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10: 2013	Pass	

Note:

a. This report added battery (ICA086NA) on the basis of the report DDT-R20070616-1E5 and DDT-R20070616-1E5 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-R20070616-1E5 and DDT-R20070616-1E5 Rev.01 for the original data.

2. General Test Information

2.1. Description of EUT

: Portable Bluetooth Speaker	
: CHARGE5H	
: Please reference user manual of this device	
DC 5V from external AC Adapter DC 3.6V 7500mAh Polymer Li-ion built-in battery	
: Bluetooth V5.1 ®	
: 2402 MHz - 2480 MHz	
: GFSK	
: 1 Mbps	
: FPC antenna, maximum PK gain: 2.26 dBi	
ND0793-LL0358427 for radiation test	

Note: EUT is the abbreviation of equipment under test.

Channel Inform	nation	1			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1 (2404	15 🛞	2432	29 💿	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

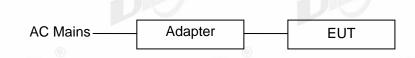
2.2. Accessories of EUT

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

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		CH0	2402
		CH19	2440
		CH39	2480

2.5. Test environment conditions

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

21-25 °C
40-75%
86-106 kPa

2.6. Deviations of test standard

No deviation.

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

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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

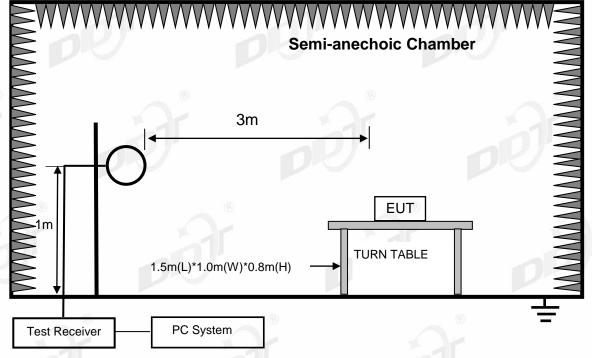
Test Item	Uncertainty
Bandwidth	1.1%
	0.86 dB (10 MHz ≤ f < 3.6 GHz);
Peak Output Power (Conducted) (Spectrum analyzer)	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Device Crossfeel Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
Power Spectral Density	1.38 dB (3.6 GHz ≤ f < 8 GHz)
En avera sin a Otability	6.7 x 10 ⁻⁸ (Antenna couple method)
Frequencies Stability	5.5 x 10 ⁻⁸ (Conducted method)
X X X	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)
\sim	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.32 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertain 95% confidence level using a coverage factor of k=2.	inty expressed at approximately the

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	re-amplifier COM-POWE		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

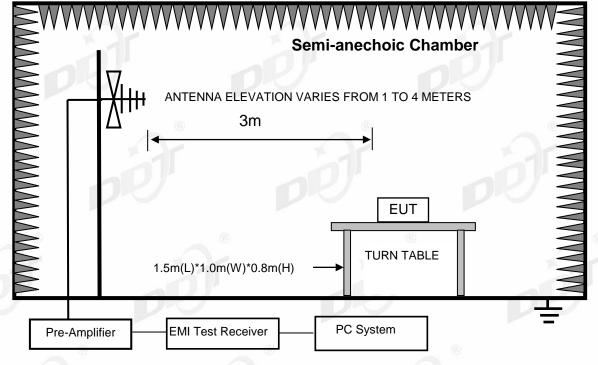
4. Radiated Emission

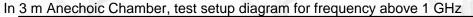
4.1. Block diagram of test setup

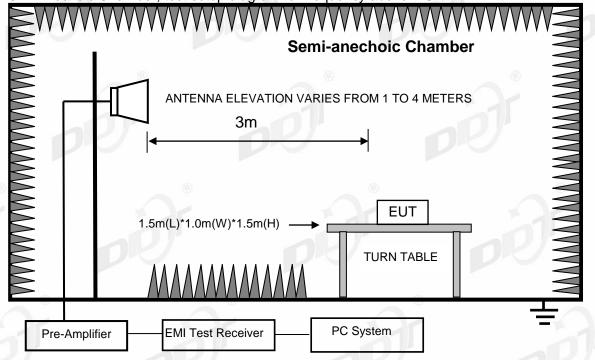
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz



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
¹ 0.495-0.505	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

Measurement distance (meters)	Field strength limit		
	μV/m	dB(µV)/m	
300	2400/F(kHz)	67.6-20log(F)	
30	24000/F(kHz) 🚿	87.6-20log(F)	
30	30	29.54	
3	100	40.0	
3	150	43.5	
3	200	46.0	
3	[®] 500	54.0 🕓	
3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)		
	distance (meters) 300 30 30 30 30 3 3 3 3 3 3 3 3 3 3 3 3 3	distance (meters) μV/m 300 2400/F(kHz) 30 24000/F(kHz) 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 500 3 74.0 dB(μV)/	

(2) FCC 15.209 Limit.

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:

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

8.2.3 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	3 m	
1 GHz - 18 GHz	Double Ridged Horn Antenna	3 m
n#	(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.

(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 9 kHz to 30 MHz and 18 GHz to 25 GHz, so below final test was performed with frequency range from 30 MHz 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 equipments 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

RBW
200 Hz 💿
9 kHz
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 4.1.4.2.2 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)

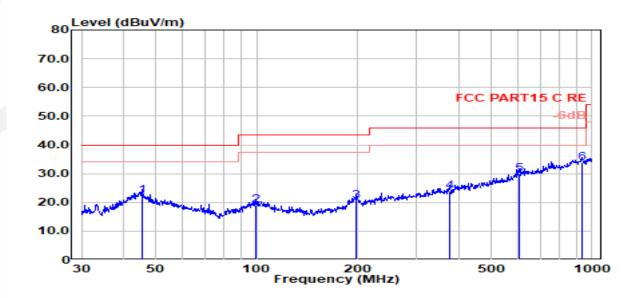
All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits. Note1: According exploratory test no any obvious emission was detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz.

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 Tx 2402 MHz mode.

Dongguan Dongdian Testing Service Co., Ltd.

Radiated Emission test (below 1 GHz) **TR-4-E-009 Radiated Emission Test Result**

Test Site	: DDT 3m Chamber 3#	D:\2021 report data\Q21120912-2E JBL CHARGE5H\FCC BELOW 1G\FCC BELOW 1G_00003.EMI			
Test Date	: 2021-12-21	Tested By	: James		
EUT	: Portable Bluetooth Speaker	Model Number	: CHARGE5H		
Power Supply	: Battery	Test Mode	: TX Mode		
Condition	: Temp:24.5°,Humi:55%,Press:100.1kP	a Antenna/Distanc	e: VLUB 9163 3#/3m/Horizontal		
Memo	: BLE				



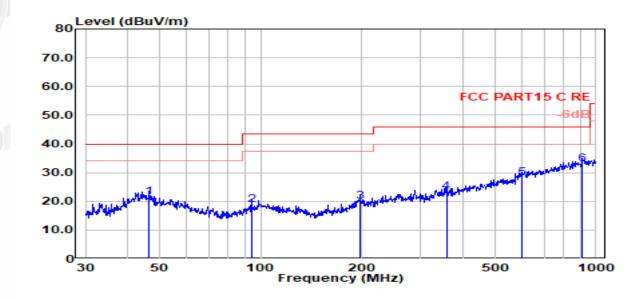
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	45.69	4.05	14.75	3.63	22.43	40.00	-17.57	QP	Horizontal
2	99.18	3.66	11.50	3.97	19.14	43.50	-24.36	QP	Horizontal
<u> </u>	198.59	4.23	11.96	4.44	20.63	43.50	-22.87	QP	Horizontal
4	375.94	3.98	14.82	5.07	23.87	46.00	-22.13	QP	Horizontal
5	607.79	4.84	19.20	5.76	29.79	46.00	-16.21	QP	Horizontal
6	935.55	4.92	22.29	6.54	33.75	46.00	-12.25	QP	Horizontal

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

If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\2021 report data\Q21120912-2E JBL CHARGE5H\FCC BELOW 1G\FCC BELOW 1G_00004.EMI			
Test Date	: 2021-12-21	Tested By	: James		
EUT	: Portable Bluetooth Speaker	Model Number	: CHARGE5H		
Power Supply	: Battery	Test Mode	: TX Mode		
Condition	: Temp:24.5°,Humi:55%,Press:100.1kP	a Antenna/Distanc	e: VLUB 9163 3#/3m/Vertical		
Memo	: BLE				



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	46.34	3.47	14.40	3.63	21.50	40.00	-18.50	QP	Vertical
2	94.10	3.63	11.01	3.94	18.59	43.50	-24.91	QP	Vertical
3	197.89	3.71	11.89	4.44	20.04	43.50	-23.46	QP	Vertical
8 4	357.93	3.63	14.53	5.01	23.17	46.00	-22.83	QP	Vertical
5	601.43	3.18	19.13	5.74	28.05	46.00	-17.95	QP	Vertical
6	912.86	4.09	22.36	6.50	32.95	46.00	-13.05	QP	Vertical

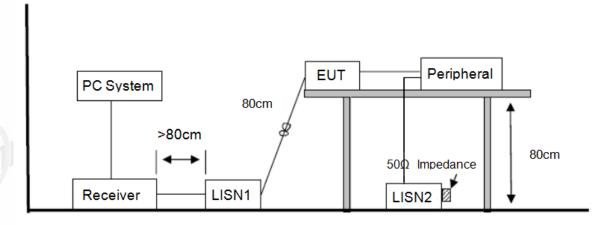
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

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



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.

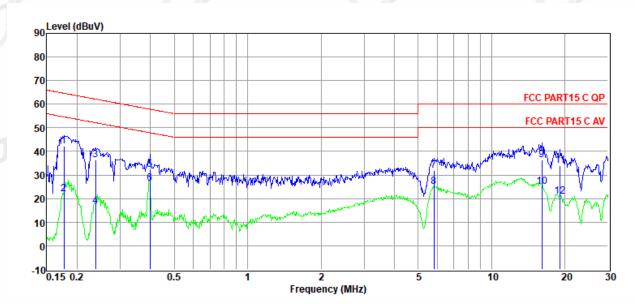
5.4. Test result

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

.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	: BLE					



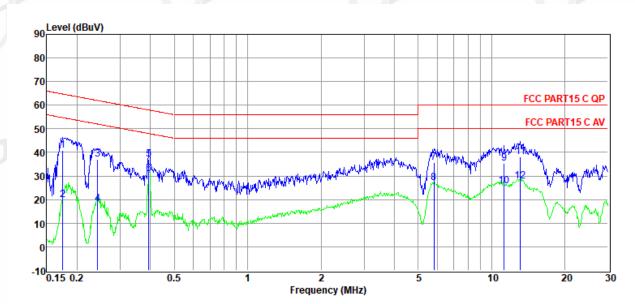
ltem	Freq.	Read	LISN	Cable	Pulse	Result	Limit	Over	Detector	Phase
		Level	Factor	Loss	Limiter Factor	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.18	22.35	9.80	0.01	9.92	42.08	64.64	-22.56	QP	NEUTRAL
2	0.18	2.33	9.80	0.01	9.92	22.06	54.64	-32.58	Average	NEUTRAL
3	0.24	16.63	9.74	0.02	9.92	36.31	62.17	-25.86	QP	NEUTRAL
4	0.24	-2.78	9.74	0.02	9.92	16.90	52.17	-35.27	Average	NEUTRAL
5	0.40	12.83	9.58	0.02	9.91	32.34	57.90	-25.56	QP	NEUTRAL
6	0.40	6.95	9.58	0.02	9.91	26.46	47.90	-21.44	Average	NEUTRAL
7	5.81	12.34	9.67	0.07	9.93	32.01	60.00	-27.99	QP	NEUTRAL
8	5.81	5.27	9.67	0.07	9.93	24.94	50.00	-25.06	Average	NEUTRAL
9	16.06	16.75	9.65	0.15	9.94	36.49	60.00	-23.51	QP	NEUTRAL
10	16.06	5.27	9.65	0.15	9.94	25.01	50.00	-24.99	Average	NEUTRAL
11	19.12	13.97	9.77	0.17	9.96	33.87	60.00 🕓	-26.13	QP	NEUTRAL
12	19.12	1.04	9.77	0.17	9.96	20.94	50.00	-29.06	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.

TR-4-E-010 Conducted Emission Test Result

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/LINE			
Memo	: BLE					



ltem	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	0.17	21.28	9.71	0.01	9.92	40.92	64.72	-23.80	QP	LINE
2	0.17	0.17	9.71	0.01	9.92	19.81	54.72	-34.91	Average	LINE
3	0.24	17.46	9.76	0.02	9.92	37.16	62.00	-24.84	QP	LINE
4	0.24	-1.66	9.76	0.02	9.92	18.04	52.00	-33.96	Average	S LINE
5	0.39	17.66	9.65	0.02	9.91	37.24	57.99	-20.75	QP	LINE
6	0.39	11.35	9.65	0.02	9.91	30.93	47.99	-17.06	Average	LINE
7	5.81	16.11	9.53	0.07	9.93	35.64	60.00	-24.36	QP	LINE
8	5.81	7.48	9.53	0.07	9.93	27.01	50.00	-22.99	Average	LINE
9	11.26	15.57	9.59	0.12	9.94	35.22	60.00	-24.78	QP	LINE
10	11.26	6.25	9.59	0.12	9.94	25.90	50.00	-24.10	Average	LINE
11	13.13	18.46	9.70	0.13	9.93	38.22	60.00 🕓	-21.78	QP	LINE
12	13.13	8.17	9.70	0.13	9.93	27.93	50.00	-22.07	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: aut