



■ Report No.: DDT-R21082303-2E01

■ Issued Date: Sep. 30, 2021

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	Harman International Industries, Inc.
Address	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Equipment under Test	:	Bluetooth Speaker
Model No.	:	PARTYBOX 100
Trade Mark	:	JBL
FCC ID	:	APIBOX100
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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REPORT

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Test Report Declare

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Trade mark	:	JBL
Manufacturer	:	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-R21082303-2E01		
Date of Receipt:	Aug. 25, 2021	Date of Test:	Aug. 25, 2021 ~ Sep. 30, 2021

Prepared By:

Ella Gong

Ella Gong/Engineer

Approved By:



Damon Hu/EMC Manager

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	Sep. 30, 2021	

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

Note: This report added battery (DH14026CHM), DC-DC IC Change to DIO54302(On PCB position IC4, IC5, IC7), DIO54270(On PCB position IC2, IC3) and USB Control IC Change to CW3048(On PCB position U12) on the basis of the report DDT-R18121205-1E4 Rev.01, this change based on engineering judgment that only power line conducted and radiated emission (below 1GHz) need to test.

2. General Test Information

2.1. Description of EUT

EUT* Name	: Bluetooth Speaker
Model Number	: PARTYBOX 100
EUT function description	: Please reference user manual of this device
Power supply	: AC 100-240V, 50/60Hz or DC 14.4V from built-in battery
Radio Specification	: Bluetooth V4.2
Operation frequency	: 2402MHz-2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data rate	: 1Mbps, 2Mbps, 3Mbps
Antenna Type	: Integral PCB antenna, maximum PK gain: 2.003 dBi
Sample Type	: Series production

Note: EUT is the ab. of equipment under test.

Channel information					
Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	27	2429MHz	54	2456MHz
1	2403MHz	28	2430MHz	55	2457MHz
2	2404MHz	29	2431MHz	56	2458MHz
3	2405MHz	30	2432MHz	57	2459MHz
4	2406MHz	31	2433MHz	58	2460MHz
5	2407MHz	32	2434MHz	59	2461MHz
6	2408MHz	33	2435MHz	60	2462MHz
7	2409MHz	34	2436MHz	61	2463MHz
8	2410MHz	35	2437MHz	62	2464MHz
9	2411MHz	36	2438MHz	63	2465MHz
10	2412MHz	37	2439MHz	64	2466MHz
11	2413MHz	38	2440MHz	65	2467MHz
12	2414MHz	39	2441MHz	66	2468MHz
13	2415MHz	40	2442MHz	67	2469MHz
14	2416MHz	41	2443MHz	68	2470MHz
15	2417MHz	42	2444MHz	69	2471MHz
16	2418MHz	43	2445MHz	70	2472MHz
17	2419MHz	44	2446MHz	71	2473MHz
18	2420MHz	45	2447MHz	72	2474MHz
19	2421MHz	46	2448MHz	73	2475MHz
20	2422MHz	47	2449MHz	74	2476MHz
21	2423MHz	48	2450MHz	75	2477MHz
22	2424MHz	49	2451MHz	76	2478MHz
23	2425MHz	50	2452MHz	77	2479MHz
24	2426MHz	51	2453MHz	78	2480MHz
25	2427MHz	52	2454MHz		
26	2428MHz	53	2455MHz		

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Parameter	Remark
AC cable	Harman	N/A	N/A	Length: 1.6m, unshielded
Rechargeable Li-ion Battery	SUNWODA Electronic Co., Ltd.	SUN-INTE-260	14.4VDC, 2500mAh, 36Wh	Cell Manufacturer: LG
Rechargeable Li-ion Battery	SUNWODA Electronic Co., Ltd.	SUN-INTE-260	14.4VDC, 2500mAh, 36Wh	Cell Manufacturer: Sanyo

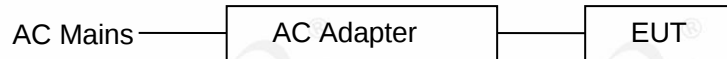
New battery information:

Description of Accessories	Manufacturer	Model number	Parameter	Remark
Rechargeable Li-ion Battery	SUNWODA Electronic Co., Ltd.	DH14026CHM	14.4VDC, 2500mAh, 36Wh	Cell Manufacturer: SAMSUNG

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	DELL	Latitude D610	FCC DOC	00045-534-136-300

2.4. Block diagram of EUT configuration for test



Test software: BlueTest3.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	Channel	Frequency (MHz)
GFSK hopping on Tx mode	CH0 to CH78	2402 to 2480
$\pi/4$ -DQPSK hopping on Tx mode	CH0 to CH78	2402 to 2480
8DPSK hopping on Tx mode	CH0 to CH78	2402 to 2480
GFSK hopping off Tx mode	CH0	2402
	CH39	2441
	CH78	2480
$\pi/4$ -DQPSK hopping off Tx mode	CH0	2402
	CH39	2441
	CH78	2480
8DPSK hopping off Tx mode	CH0	2402
	CH39	2441
	CH78	2480

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°C
Humidity range:	40-75%
Pressure range:	86-106kPa

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%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86dB (10MHz $\leq$ f < 3.6GHz);
	1.38dB (3.6GHz $\leq$ f < 8GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74dB
Power Spectral Density	0.74dB (10MHz $\leq$ f < 3.6GHz);
	1.38dB (3.6GHz $\leq$ f < 8GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86dB (10MHz $\leq$ f < 3.6GHz);
	1.40dB (3.6GHz $\leq$ f < 8GHz)
	1.66dB (8GHz $\leq$ f < 22GHz)
Uncertainty for radio frequency (RBW<20kHz)	3×10^{-8}
Temperature	0.4℃
Humidity	2%
Uncertainty for Radiation Emission test (30MHz-1GHz)	4.70dB (Antenna Polarize: V)
	4.84dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1GHz-40GHz)	4.10dB (1-6GHz)
	4.40dB (6GHz-18GHz)
	3.54dB (18GHz-26GHz)
	4.30dB (26GHz-40GHz)
Uncertainty for Power line conduction emission test	3.32dB (150kHz-30MHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

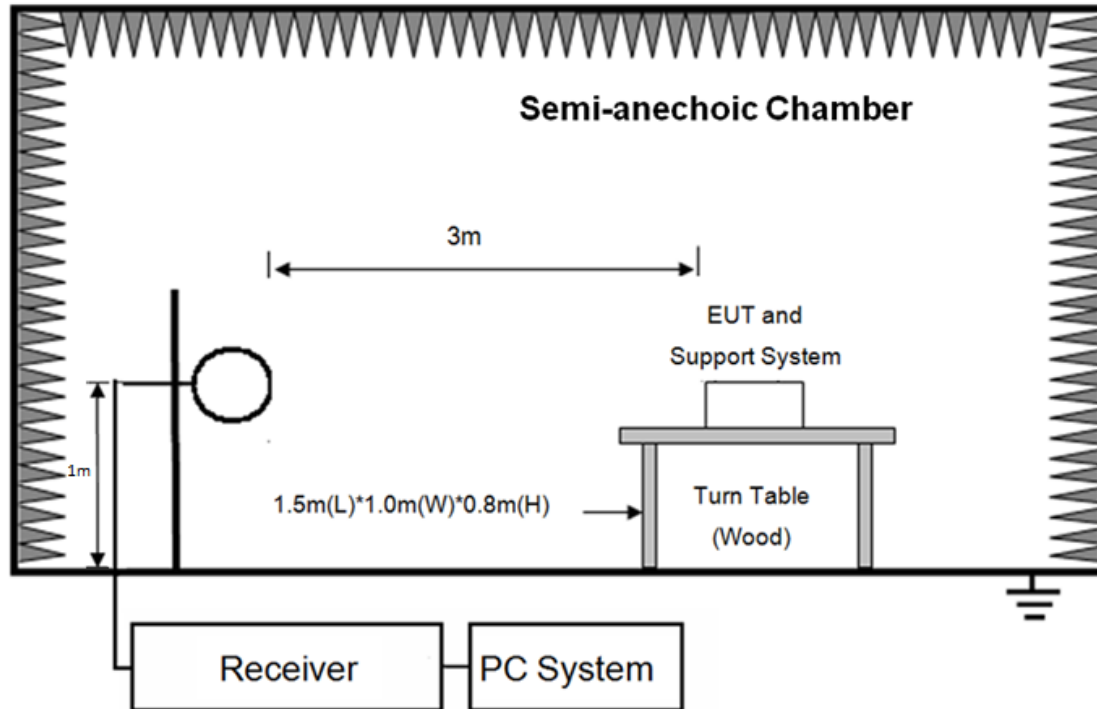
3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑Radiation 3#chamber					
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	Nov. 18, 2020	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-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Mar. 15, 2021	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
☑Power Line Conducted 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	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

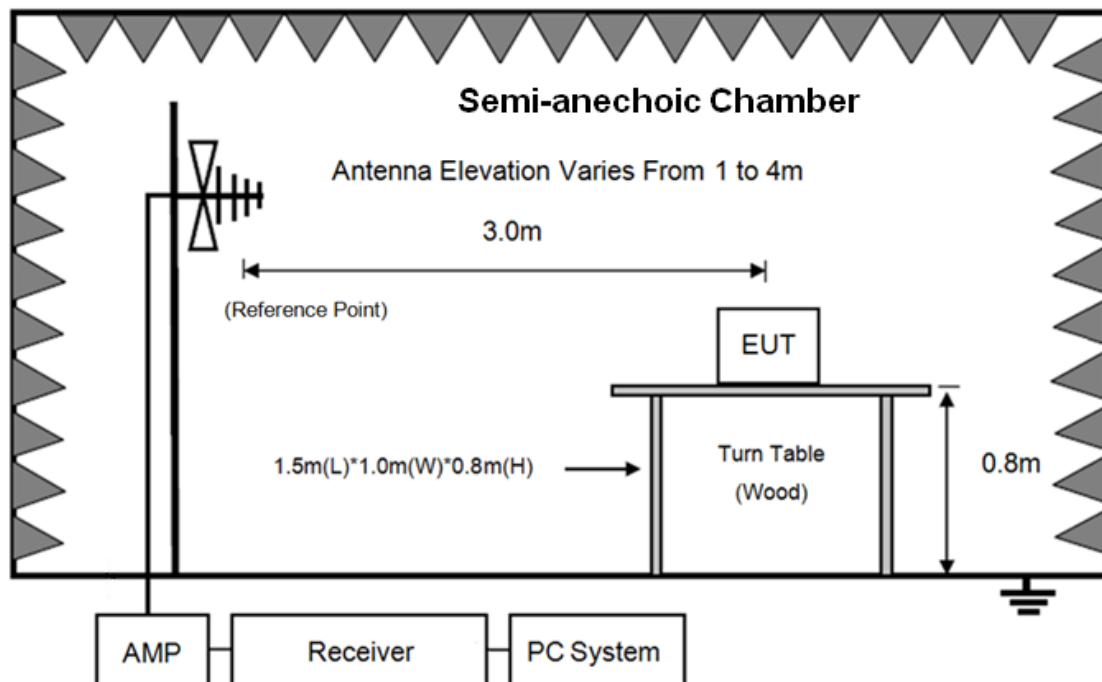
4. Radiated Emission

4.1. Block diagram of test setup

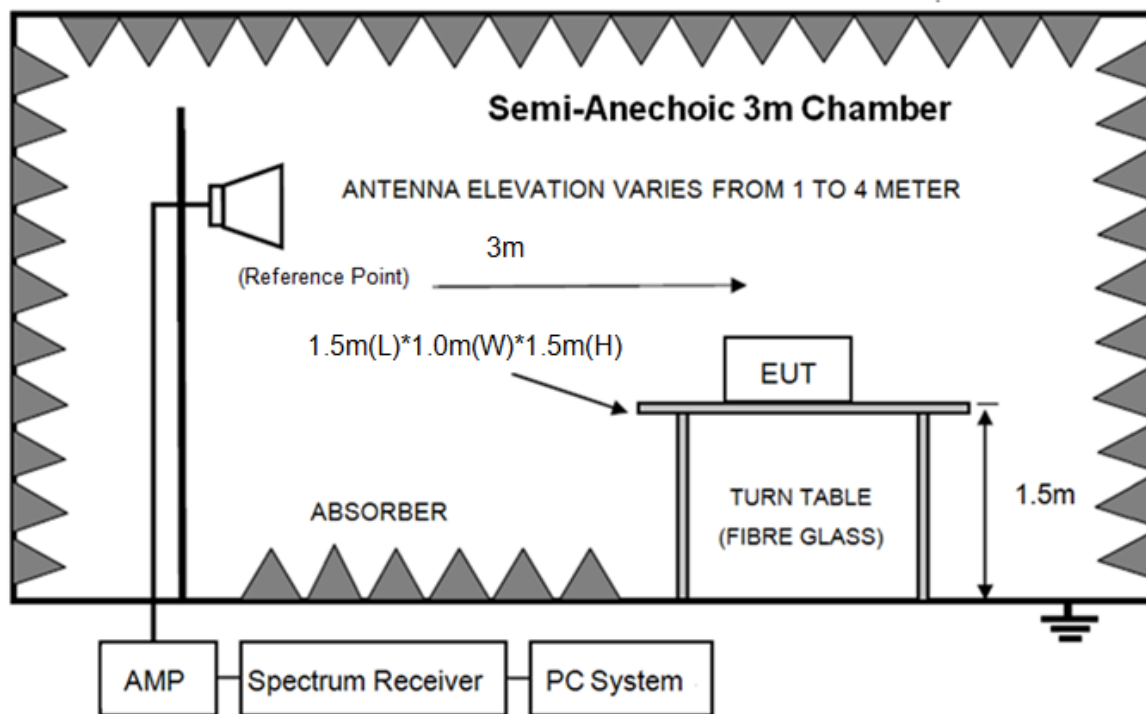
In 3m Anechoic Chamber Test Setup Diagram for 9kHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



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
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			

(2) FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
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)/m (Peak) 54.0 dB(μV)/m (Average)	

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

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

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(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 20dB 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 1G and 150 cm above the ground plane inside a semi-anechoic chamber for above 1G.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

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

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 be 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 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m 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 9kHz to 25GHz:

(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 1m to 4m (Except loop antenna, it's fixed 1m 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 9kHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9kHz to 18GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m 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 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

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

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz 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 the worst 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 25GHz were comply with 15.209 limits.

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

Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in GFSK, Tx 2441MHz mode.

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

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\2021 report data\Q21091413-2E PARTYBOX110\FCC
BELOW 1G\FCC BELOW 1G_00001.EMI

Test Date : 2021-09-27

Tested By : Kennys Zhang

EUT : Bluetooth Speaker

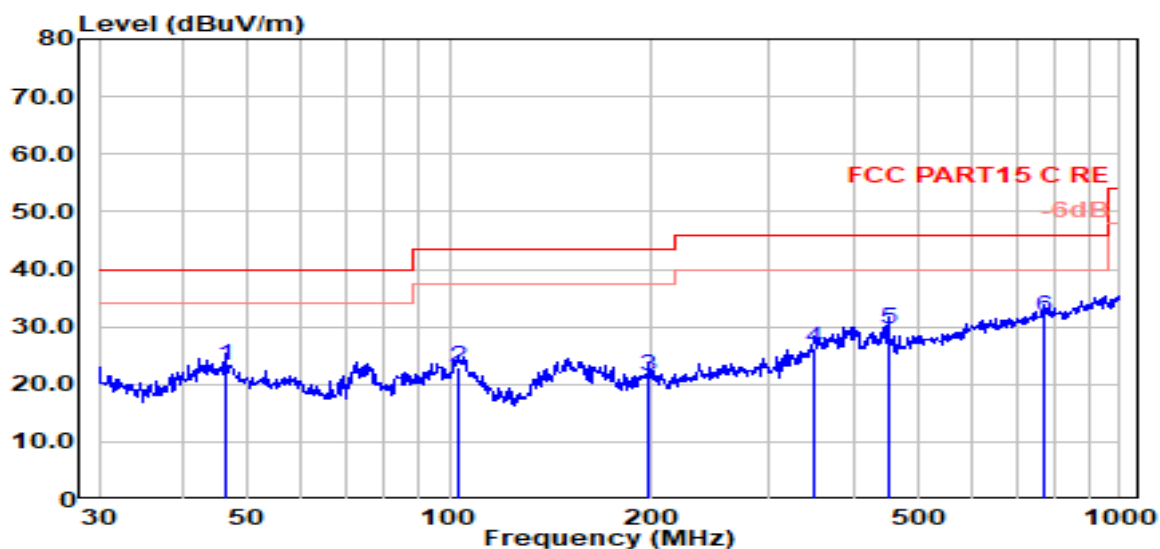
Model Number : PARTYBOX 100

Power Supply : Battery

Test Mode : TX Mode

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

Memo : BT



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	46.18	5.20	14.49	3.67	23.36	40.00	-16.64	QP	VERTICAL
2	103.08	7.66	11.48	3.90	23.05	43.50	-20.45	QP	VERTICAL
3	198.59	5.16	11.96	4.34	21.46	43.50	-22.04	QP	VERTICAL
4	350.48	6.37	15.09	4.88	26.34	46.00	-19.66	QP	VERTICAL
5	451.14	8.65	15.80	5.21	29.67	46.00	-16.33	QP	VERTICAL
6	774.16	4.99	20.60	6.09	31.68	46.00	-14.32	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

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\2021 report data\Q21091413-2E PARTYBOX110\FCC
BELOW 1G\FCC BELOW 1G_00002.EMI

Test Date : 2021-09-27

Tested By : Kennys Zhang

EUT : Bluetooth Speaker

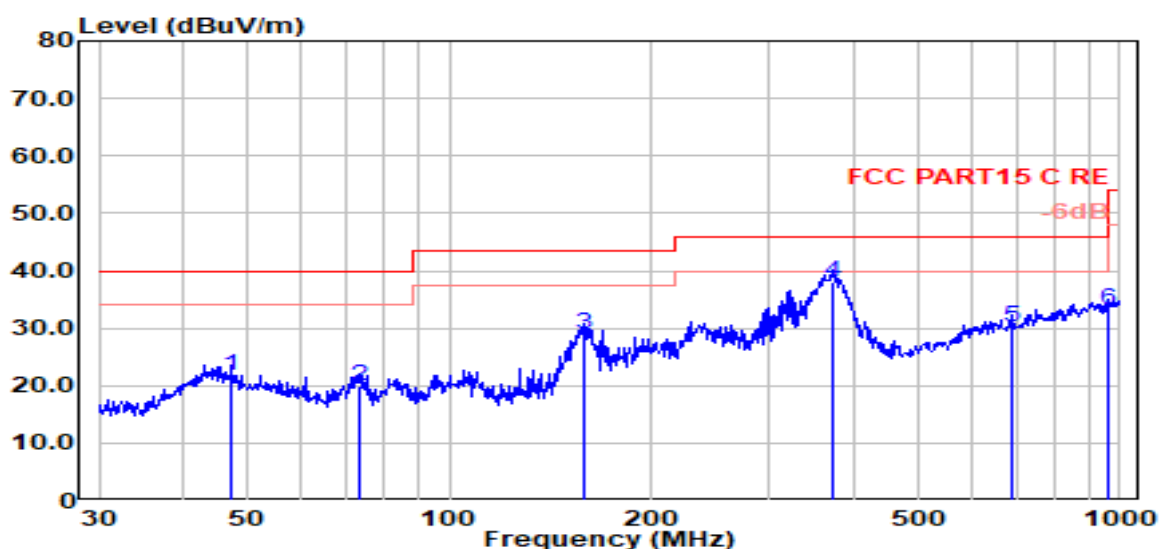
Model Number : PARTYBOX 100

Power Supply : Battery

Test Mode : TX Mode

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

Memo : BT



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	47.33	4.12	13.80	3.68	21.61	40.00	-18.39	QP	HORIZONTAL
2	73.10	7.40	8.79	3.73	19.93	40.00	-20.07	QP	HORIZONTAL
3	158.67	16.30	8.47	4.11	28.88	43.50	-14.62	QP	HORIZONTAL
4	374.62	18.24	14.80	4.96	38.01	46.00	-7.99	QP	HORIZONTAL
5	689.56	4.92	19.40	5.86	30.18	46.00	-15.82	QP	HORIZONTAL
6	962.16	4.42	22.10	6.54	33.06	54.00	-20.94	QP	HORIZONTAL

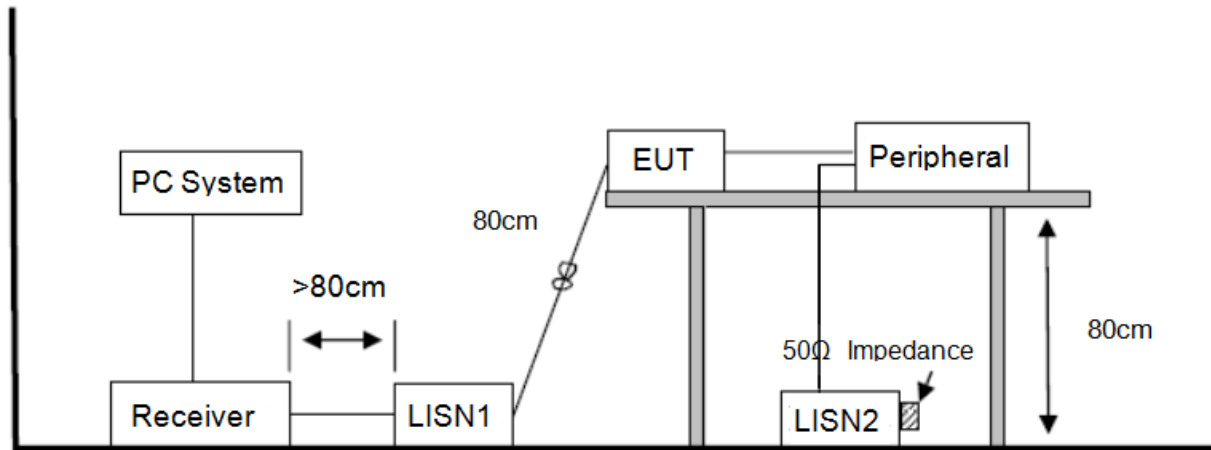
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

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

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)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	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 30MHz 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/60Hz, recorded worse case.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room

D:\2021 CE report date\Q21091413-2E JBL

Patrybox100\FCC .EM6

Test Date : 2021-09-29

Tested By : Lrz

EUT : Bluetooth Speaker

Model Number : PARTYBOX 100

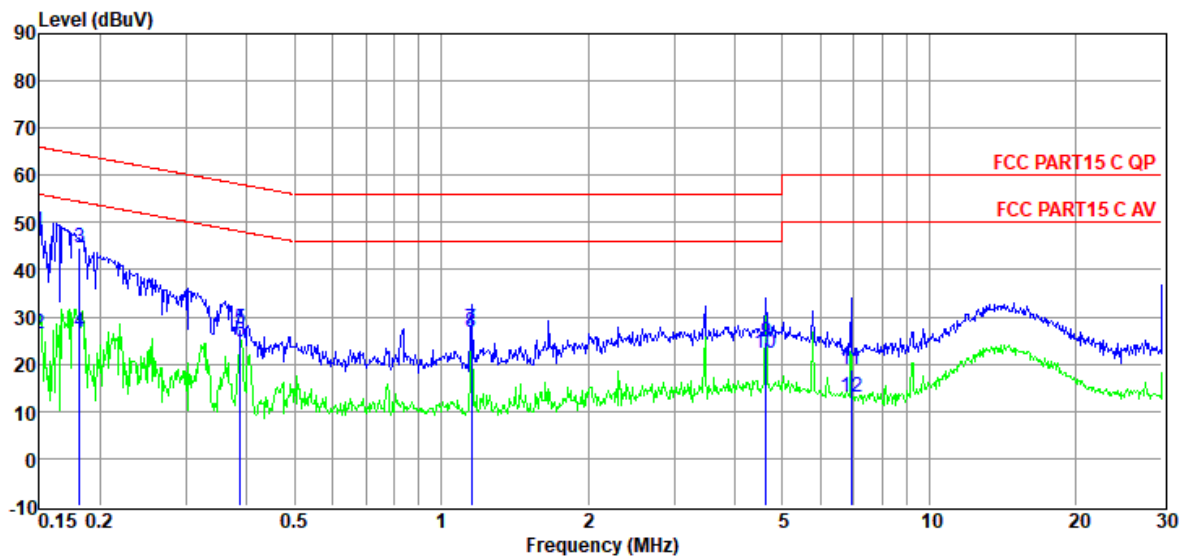
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : TEMP:24.3°C, RH:53.0%, BP:101.0kPa **LISN**

: 2020 ENV 216 1#/NEUTRAL

Memo :



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	0.15	28.91	9.38	0.02	9.86	48.17	66.00	-17.83	QP	NEUTRAL
2	0.15	7.15	9.38	0.02	9.86	26.41	56.00	-29.59	Average	NEUTRAL
3	0.18	25.26	9.37	0.02	9.86	44.51	64.42	-19.91	QP	NEUTRAL
4	0.18	7.55	9.37	0.02	9.86	26.80	54.42	-27.62	Average	NEUTRAL
5	0.39	8.21	9.38	0.02	9.86	27.47	58.12	-30.65	QP	NEUTRAL
6	0.39	5.39	9.38	0.02	9.86	24.65	48.12	-23.47	Average	NEUTRAL
7	1.15	8.08	9.39	0.03	9.86	27.36	56.00	-28.64	QP	NEUTRAL
8	1.15	7.35	9.39	0.03	9.86	26.63	46.00	-19.37	Average	NEUTRAL
9	4.62	5.41	9.45	0.08	9.87	24.81	56.00	-31.19	QP	NEUTRAL
10	4.62	2.80	9.45	0.08	9.87	22.20	46.00	-23.80	Average	NEUTRAL
11	6.91	-0.60	9.52	0.09	9.88	18.89	60.00	-41.11	QP	NEUTRAL
12	6.91	-6.39	9.52	0.09	9.88	13.10	50.00	-36.90	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

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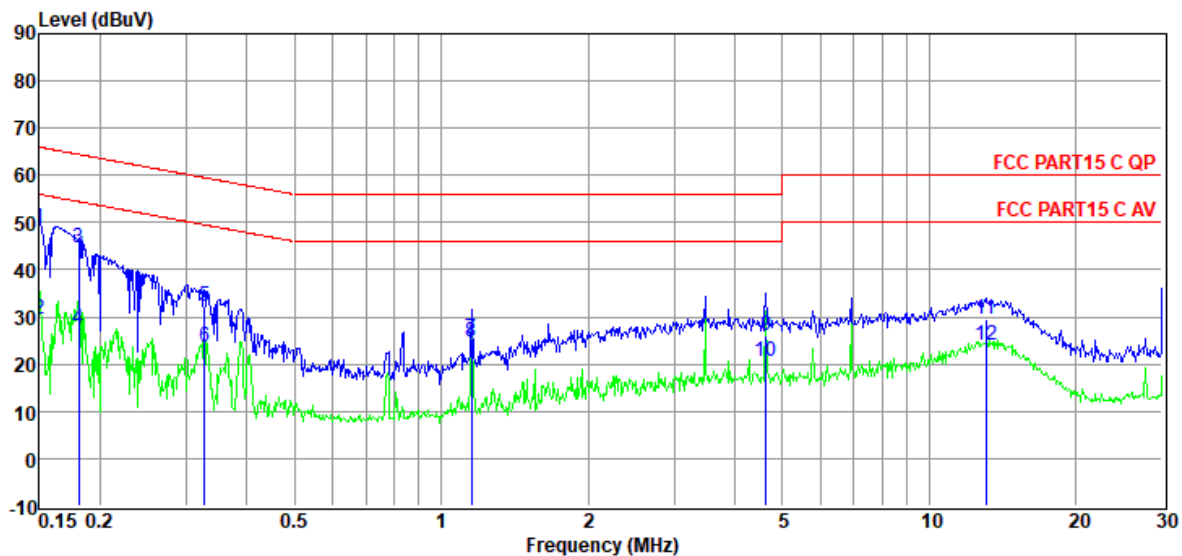
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : TEMP:24.3°C, RH:53.0%, BP:101.0kPa

LISN : 2020 ENV 216 1#/LINE

Memo :



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	29.47	9.39	0.02	9.86	48.74	66.00	-17.26	QP	LINE
2	0.15	10.18	9.39	0.02	9.86	29.45	56.00	-26.55	Average	LINE
3	0.18	25.34	9.40	0.02	9.86	44.62	64.46	-19.84	QP	LINE
4	0.18	8.24	9.40	0.02	9.86	27.52	54.46	-26.94	Average	LINE
5	0.33	13.10	9.41	0.02	9.86	32.39	59.53	-27.14	QP	LINE
6	0.33	4.50	9.41	0.02	9.86	23.79	49.53	-25.74	Average	LINE
7	1.15	6.06	9.42	0.03	9.86	25.37	56.00	-30.63	QP	LINE
8	1.15	5.34	9.42	0.03	9.86	24.65	46.00	-21.35	Average	LINE
9	4.62	6.51	9.48	0.08	9.87	25.94	56.00	-30.06	QP	LINE
10	4.62	1.13	9.48	0.08	9.87	20.56	46.00	-25.44	Average	LINE
11	13.06	10.02	9.62	0.13	9.91	29.68	60.00	-30.32	QP	LINE
12	13.06	4.26	9.62	0.13	9.91	23.92	50.00	-26.08	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.