

Report No.: DDT-R17Q0628-1E2

■ **Issued Date:** Jul. 29, 2017

FCC AND IC CERTIFICATION TEST REPORT

FOR

Applicant	•	ION Audio, LLC
Address	••	200 Scenic View Drive, Cumberland, RI02864U.S.A.
Equipment under Test	••	Rechargeable Speaker w/ Party Lights
Model No. ONG L		INSTA PARTY
Trade Mark	••	ION
FCC ID	••	2AB3E-ISP86
IC	•••	10541A-ISP86
Manufacturer	•	ION Audio, LLC
Address	:	200 Scenic View Drive, Cumberland, RI02864U.S.A.

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

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TEST REPORT DECLARE

Applicant	:	ION Audio, LLC	
Address	:	200 Scenic View Drive, Cumberland, RI02864U.S.A.	
Equipment under Test	:	Rechargeable Speaker w/ Party Lights	
Model No.	:	INSTA PARTY	
Trade Mark	:	ION	
FCC ID	:	2AB3E-ISP86	
IC	:	10541A-ISP86	
Manufacturer	:	ION Audio, LLC	
Address	:	200 Scenic View Drive, Cumberland, RI02864U.S.A.	

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 2 Feb 2017.

Test procedure used:

ANSI C63.10:2013, ANSI C63.4:2014, RSS-Gen Issue 4, Nov. 2014.

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration testedthe 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 therequirement of the above FCC and IC standards.

Report No.:	DDT-R17Q0628-1E2		
Date of Receipt:	Jun. 28, 2017	Date of Test:	Jun. 28, 2017 ~ Jul. 25, 2017

Prepared By: Approved By:

Samontu

Damon Hu/EngineerKevin Feng/EMC Manager

APPROVED OF

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.

1. Summary of test results

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.10 :2013 ANSI C63.4:2014 RSS-247 Issue 2 5.4.b	PASS
20dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.215 ANSI C63.10 :2013 ANSI C63.4:2014 RSS-247 Issue 2 5.1	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2013 ANSI C63.4:2014 RSS-247 Issue 2 5.1	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2013 ANSI C63.4:2014 RSS-247 Issue 2 5.1	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2013 ANSI C63.4:2014 RSS-247 Issue 2 5.1	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2013 ANSI C63.4:2014 RSS-247 Issue 2 5.5 RSS-Gen Issue 4 8.9 8.10	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.10 :2013 ANSI C63.4:2014 RSS-247 Issue 2 5.5 RSS-Gen Issue 4 8.9 8.10	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10 :2013 ANSI C63.4:2014 RSS-Gen Issue 4 8.8	PASS
Antenna requirement	FCC Part 15: 15.203 ANSI C63.4:2014 RSS-Gen Issue 4 8.3	PASS

2. General test information

2.1. Description of EUT

EUT* Name	:	Rechargeable Speaker w/ Party Lights	
Model Number	:	INSTA PARTY	
EUT function description	:	Please reference user manual of this device	
Power supply	:	DC 5V from micro-USB port connected to external AC/DC power adapter or DC 3.7V from built-in battery	
Radio Specification	:	Bluetooth V4.2 without BLE mode	
Operation frequency	:	2402MHz -2480MHz	
Modulation	:	GFSK, π/4 QPSK	
Data rate	:	1Mbps, 2Mbps	
Antenna Type	:	Integrate antenna, maximum PK gain: -0.68dBi	
Sample Type	:	Series production	

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Note 1: EUT is the ab. of equipment under test.

Note 2: EUT can powered from external AC/DC power adapter and built-in battery, according exploration test, when powered from external AC/DC power adapter have the worse EMC performance, so all the final tests were performed with external AC/DC power adapter.

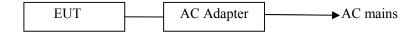
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Parameter	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Description of Assistant equipment	Manufacturer	Model number	EMC Compliance	Other
AC/DC Adapter	AMAZOM	5.2V/1.8A	N/A	Input: AC 100V-240V,50/6 0Hz, 0.3A; Output: DC 5.2V/1.8A

2.4. Block diagram of EUT configuration for test



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

Test software:FCCAssist 1.5.exe.

Tested mode, channel, information				
Mode	Channel	Frequency (MHz)		
GFSK hopping on Tx Mode	CH0 to CH78	2402 to 2480		
π /4 QPSK Hopping on TX mode	CH0 to CH78	2402 to 2480		
	CH0	2402		
GFSK hopping off Tx Mode	CH39	2441		
	CH78	2480		
	CH0	2402		
π/4 QPSKhopping off Tx Mode	CH39	2441		
	CH78	2480		

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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:	86-106kPa

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, 523808Tel: +86-0769-89201699http://www.dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

Designation Number: CN1182; Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power(Conducted)(Spectrum analyzer)	$0.86 dB(10 MHz \le f < 3.6 GHz);$
1 cax Output 1 ower(Conducted)(Spectrum analyzer)	1.38dB(3.6GHz≤ f < 8GHz)
Peak Output Power(Conducted)(Power Sensor)	0.74dB
Dwell Time	0.6%
	$0.86 dB(10 MHz \le f < 3.6 GHz);$
Conducted spurious emissions	1.40dB(3.6GHz≤ f < 8GHz)
	1.66dB(8GHz≤ f < 22GHz)

Uncertainty for radio frequency (RBW<20KHz)	3×10-8	
Temperature	0.4℃	
Humidity	2%	
Uncertainty for Radiation Emission test	4.70 dB (Antenna Polarize: V)	
(30MHz-1GHz)	4.84 dB (Antenna Polarize: H)	
Uncertainty for Radiation Emission test	4.10dB(1-6GHz)	
(1GHz-18GHz)	4.40dB (6GHz-18Gz)	
Uncertainty for Power line conduction emission test	3.32dB (150KHz-30MHz)	
[

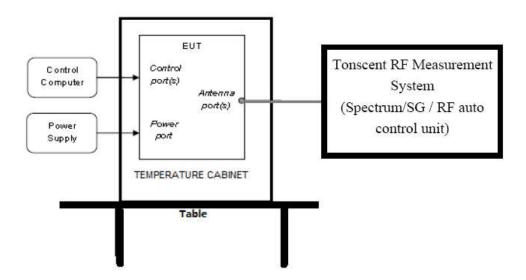
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test				•	
Spectrum analyzer	R&S	FSU26	1166.1660.26	Oct. 16, 2016	1Year
Vector Signal Generator	Agilent	E8267D	MY52098743	Oct. 20, 2016	1Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 16, 2017	1Year
Power Sensor	Agilent	U2021XA	MY55150010	Apr. 18, 2017	1Year
Power Sensor	Agilent	U2021XA	MY55150011	Apr. 19, 2017	1Year
DC Power Source	MATRIS	MPS-3005L-3	D813058W	Oct. 24, 2016	1Year
Attenuator	Mini-Circuits	BW-S10W2	101109	Aug. 18, 2016	1Year
RF Cable	Micable	C10-01-01-1	100309	Aug. 18, 2016	1Year
Test Software	JS Tonscent	JS1120-2	Ver.2.5	N/A	N/A
USB Data acquisition	Agilent	U2531A	TW55043503	N/A	N/A
Auto control Unit	JS Tonscent	JS0806-2	158060010	N/A	N/A
Radiated Emission Tes	t				
EMI Test Receiver	R&S	ESU8	100316	Oct. 16, 2016	1Year
Spectrum analyzer	R&S	FSU26	1166.1660.26	Oct. 16, 2016	1Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Oct. 27, 2016	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 16, 2016	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Oct. 12, 2016	1 Year
Pre-amplifier	A.H.	PAM-0118	360	Oct. 16, 2016	1 Year
RF Cable	HUBSER	CP-X2	W11.03	Oct. 16, 2016	1Year
RF Cable	HUBSER	CP-X1	W12.02	Oct. 16, 2016	1 Year
MI Cable	HUBSER	C10-01-01-1M	1091629	Oct. 16, 2016	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted	Emissions Tes	t			
Test Receiver	R&S	ESU8	100316	Oct. 16, 2016	1 Year
LISN 1	R&S	ENV216	101109	Oct. 16, 2016	1 Year
LISN 2	R&S	ESH2-Z5	100309	Oct. 16, 2016	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Oct. 16, 2016	1 Year
CE Cable 1	HUBSER	ESU8/RF2	W10.01	Oct. 16, 2016	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. Maximum Peak Output Power

4.1. Block diagram of test setup



4.2. Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

4.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Measure the maximum output power of EUT by spectrum analyzer with PK detector and RBW=2MHz(above 20dB bandwidth of measured signal), VBW=3MHz

Note: The attenuator loss was inputted into spectrum analyzer as amplitude offset.

4.4. Test Result

Mode	Freq(MHz)	Result(dBm)	Limit (dBm)	Conclusion
	2402	-6.43	21	PASS
GFSK	2441	-6.51	21	PASS
	2480	-4.95	21	PASS
	2402	-6.08	21	PASS
π/4 QPSK	2441	-6.00	21	PASS
	2480	-4.44	21	PASS
Test Date : Jun. 30, 2017 Test Engineer : Damon Hu			mon Hu	

5. 20dB Bandwidth and 99% Bandwidth

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

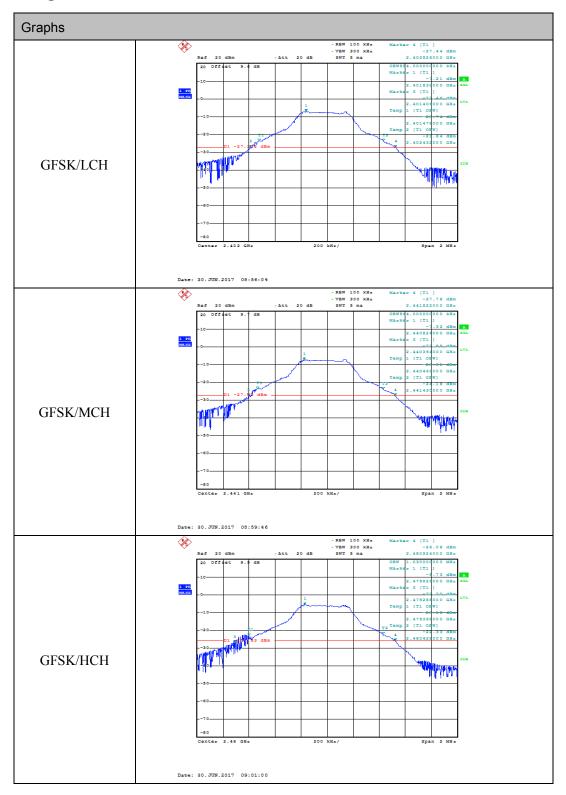
Report No.: DDT-R17Q0628-1E2

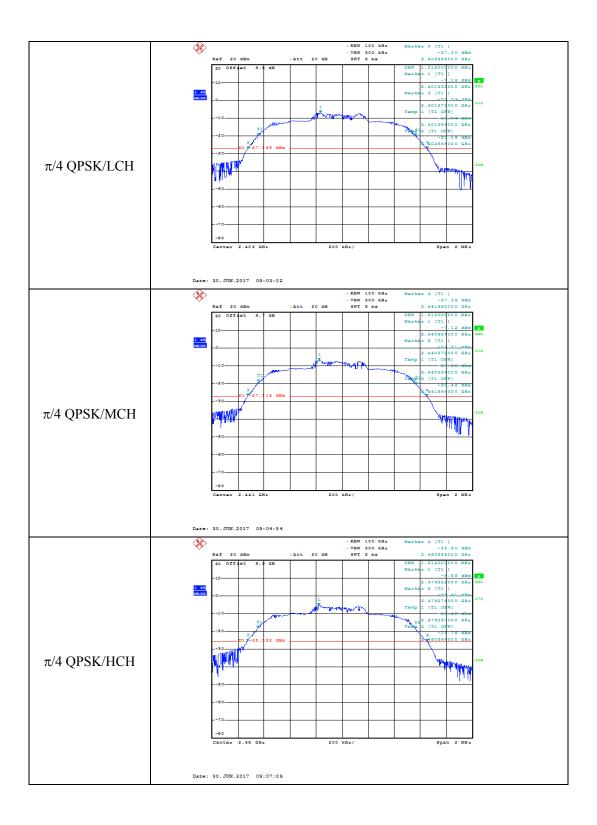
5.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 kHz RBW and 100 kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.4. Test Result

Mode	Freq (MHz)	20dB bandwidth Result (MHz)	99% bandwidth Result (MHz)	Conclusion
	2402	1.120	0.954	PASS
GFSK	2441	1.128	0.964	PASS
	2480	1.236	1.030	PASS
	2402	1.378	1.212	PASS
π/4 QPSK	2441	1.378	1.212	PASS
	2480	1.380	1.214	PASS
Test Date: Jun. 30, 2017 Test Engineer:			: Damon Hu	





6. Carrier Frequency Separation

6.1. Block diagram of test setup

Same as section 4.1

6.2. Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

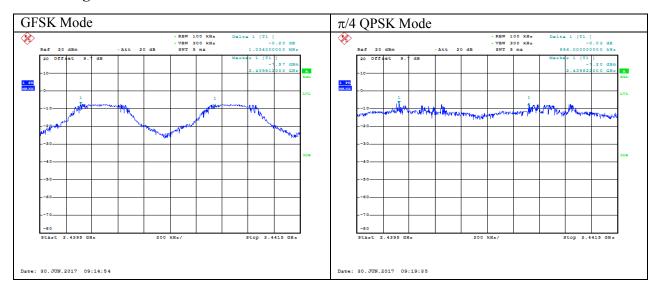
Report No.: DDT-R17Q0628-1E2

6.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The carrier frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW.

6.4. Test Result

Mode	Channel separation (MHz)	Limit (MHz) 2/3 of 20dB bandwidth	Conclusion
GFSK	1.034	≥ two-thirds of the 20 dB Bandwidth Of The Hopping Channel	PASS
π/4 QPSK	0.996	≥ two-thirds of the 20 dB Bandwidth Of The Hopping Channel	PASS
Test Date: Jun. 30, 2017		Test Engine	er : Damon Hu



7. Number Of Hopping Channel

7.1. Block diagram of test setup

Same as section 4.1

7.2. Limits

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

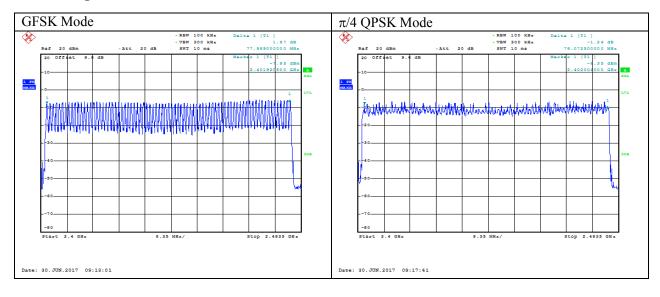
7.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The number of hopping channel was measured by spectrum analyzer with 100 kHz RBW and 300 KHz VBW.

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7.4. Test Result

Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
π/4 QPSK 79		>15	PASS
Test Date: Jun. 30,	2017	Test Eng	gineer : Damon Hu



8. Dwell Time

8.1. Block diagram of test setup

Same as section 4.1

8.2. Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

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8.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Measure the hopping number and on time of each pulse with spectrum analyzer in zero span set, and calculate dwell time with formula Dwell time = total hops *pulse's on time.

DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 timeslot RX, 1 time slot TX). So, total hops is $10.12 \times 31.6 = 320$.

DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 timeslots RX, 1 time slot TX). So, total hops is $5.06 \times 31.6 = 160$.

DH5 Packet permit maximum 1600/79/6 = 3.376 hops per second in each channel (5 timeslots RX, 1 time slot TX). So, total hops is $3.376 \times 31.6 = 106.7$.

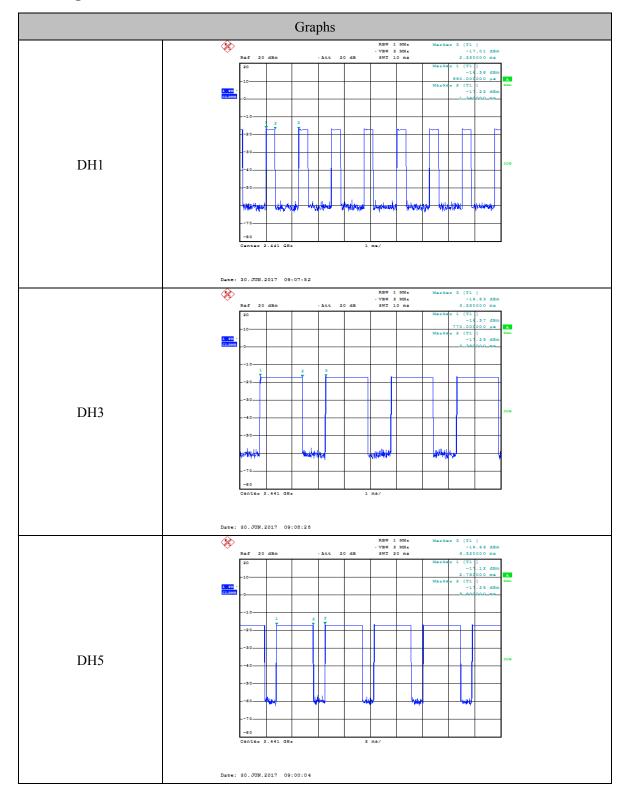
2DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 timeslot RX, 1 time slot TX). So, total hops is $10.12 \times 31.6 = 320$.

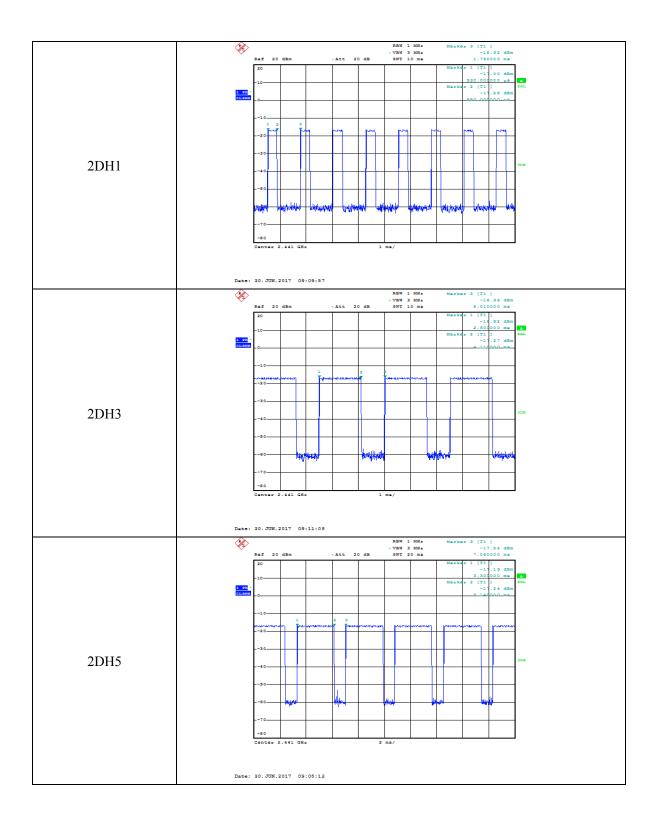
2DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 timeslots RX, 1 time slot TX). So, total hops is $5.06 \times 31.6 = 160$.

2DH5 Packet permit maximum 1600/79/6 = 3.376 hops per second in each channel (5 timeslots RX, 1 time slot TX). So, total hops is $3.376 \times 31.6 = 106.7$.

8.4. Test Result

Mode	Dwell time (s)	Pulse's on time (ms)	Total hops	Limit	Conclusion
DH1	0.112	0.35	320	<400ms	PASS
DH3	0.258	1.61	160	<400ms	PASS
DH5	0.301	2.82	106.7	<400ms	PASS
2-DH1	0.112	0.35	320	<400ms	PASS
2-DH3	0.258	1.61	160	<400ms	PASS
2-DH5	0.303	2.84	106.7	<400ms	PASS
Note: Dwell time = total hops *pulse's on time.					
Test Date: Jun. 30, 2017Test Engineer: Damon Hu					

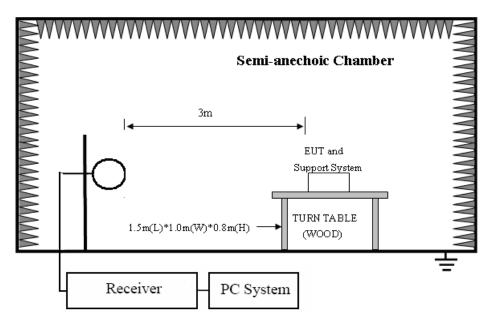




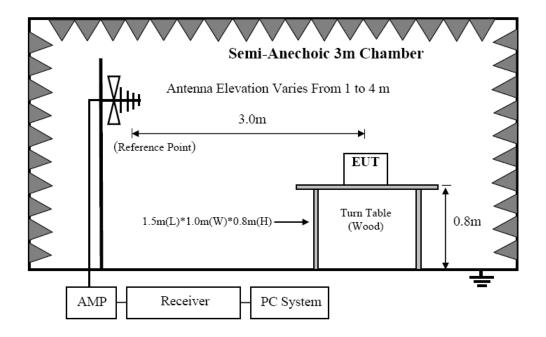
9. Radiated emission

9.1. 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



Semi-Anechoic 3m Chamber

ANTENNA ELEVATION VARIES FROM 1 TO 4 METER

3m

1.5m(L)*1.0m(W)*1.5m(H)

EUT

TURN TABLE
(FIBRE GLASS)

AMP Spectrum Analyzer PC System

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

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

9.2. Limit

9.2.1 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
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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)

9.2.2 FCC 15.209 Limit.

FREQUENCY	DISTANCE	FIELD STRENG	THS LIMIT
MHz	Meters	$\mu V/m$	dB(μV)/m
$0.009 \sim 0.490$	300	2400/F(KHz)	67.6-20log(F)
$0.490 \sim 1.705$	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

Abovo	1000	2	74.0 dB(μV)/m (Peak)
Above	1000	3	$54.0 \text{ dB}(\mu\text{V})/\text{m} \text{ (Average)}$

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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 9-90KHz, 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 then that specified, and the limit at closer measurement distance can be extrapolated by below formula: $Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$

9.2.3 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 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 150 cm above the ground plane inside a semi-anechoic chamber.
- (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
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Trilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned withits plane vertical from the EUT and rotated about its vertical axis for maximum esponse at each azimuth position around the EUT. And the loop antenna also positioned with its plane horizontal at the specified distance from the EUT. The center of theloop 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 variedfrom 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.

Report No.: DDT-R17Q0628-1E2

- (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 equipments and all of the interface cables were changed according to ANSI C63.10 2013on 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; RMS detector RBW 1MHz VBW 3MHz for Average measure(according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure).

(8)X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

9.4. 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 were detected from 9KHz to 30MHz and 18GHz to 25GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.

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

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 2# E:\2017 RE2# Report Data\17Q0628-1\RE.EM6

Test Date : 2017-07-18 Tested By : Jerry

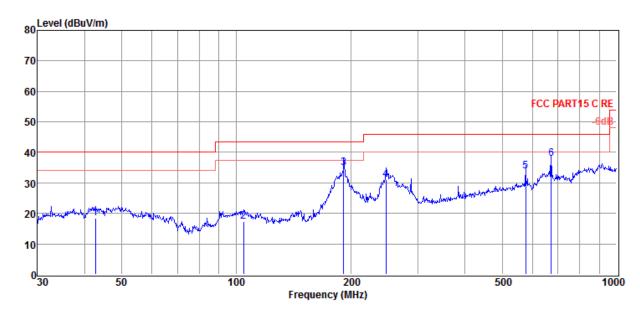
EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTAPARTY

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

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2016 VULB9163 2#/3m/VERTICAL

Memo :

Data: 1



Item (Mark)	Freq.	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	42.60	1.76	13.05	3.51	18.32	40.00	-21.68	QP	VERTICAL
2	104.54	1.99	11.26	4.03	17.28	43.50	-26.22	QP	VERTICAL
3	191.75	20.43	10.18	4.38	34.99	43.50	-8.51	QP	VERTICAL
4	247.68	14.28	12.11	4.64	31.03	46.00	-14.97	QP	VERTICAL
5	576.64	9.59	18.36	5.76	33.71	46.00	-12.29	QP	VERTICAL
6	672.84	11.56	20.30	6.05	37.91	46.00	-8.09	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.

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 2# E:\2017 RE2# Report Data\17Q0628-1\RE.EM6

Test Date : 2017-07-18 Tested By : Jerry

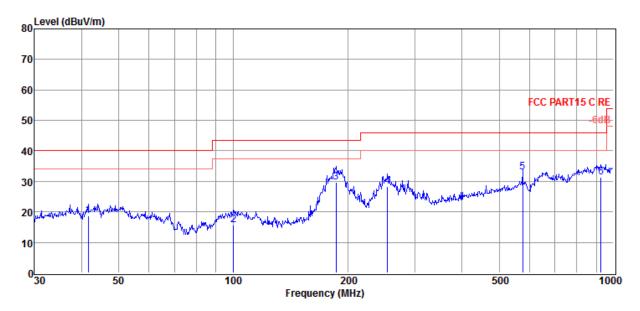
EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTAPARTY

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

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2016 VULB9163 2#/3m/HORIZONTAL

Memo :

Data: 2



Item	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	(dBµV/m)	$(dB\mu V/m)$	(dB)		
1	41.57	2.38	12.81	3.49	18.68	40.00	-21.32	QP	HORIZONTAL
2	100.23	0.61	11.02	4.00	15.63	43.50	-27.87	QP	HORIZONTAL
3	186.44	15.88	9.57	4.36	29.81	43.50	-13.69	QP	HORIZONTAL
4	254.73	11.38	12.28	4.67	28.33	46.00	-17.67	QP	HORIZONTAL
5	576.64	8.99	18.36	5.76	33.11	46.00	-12.89	QP	HORIZONTAL
6	925.76	2.54	22.09	6.72	31.35	46.00	-14.65	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.

Radiated Emission test (above 1GHz)

Freq.	Read	Antenna	PRM	Cable	ResultLev	Limit	Margin	Detector	Polarization
(MHz)	level	Factor	Factor	Loss	$el(dB\mu V/$	(dBµ	(dB)	type	
	(dBµV)	(dB/m)	(dB)	(dB)	m)	V/m)			
					Tx mode 2402				
3730.00	37.44	32.61	29.21	7.44	48.28	74.00	-25.72	Peak	VERTICAL
4696.00	36.96	33.76	29.29	8.37	49.80	74.00	-24.20	Peak	VERTICAL
4808.00	38.44	33.74	29.32	8.48	51.34	74.00	-22.66	Peak	VERTICAL
6117.00	36.36	35.19	29.29	9.74	52.00	74.00	-22.00	Peak	VERTICAL
7041.00	36.45	36.23	30.40	10.47	52.75	74.00	-21.25	Peak	VERTICAL
7846.00	36.41	36.67	31.07	11.05	53.06	74.00	-20.94	Peak	VERTICAL
3247.00	38.20	31.80	30.01	7.03	47.02	74.00	-26.98	Peak	HORIZONTAL
3807.00	36.57	32.84	29.15	7.49	47.75	74.00	-26.25	Peak	HORIZONTAL
5025.00	35.81	33.75	29.35	8.71	48.92	74.00	-25.08	Peak	HORIZONTAL
5998.00	34.68	35.00	29.19	9.68	50.17	74.00	-23.83	Peak	HORIZONTAL
6964.00	35.55	36.17	30.35	10.40	51.77	74.00	-22.23	Peak	HORIZONTAL
7895.00	36.01	36.68	31.09	11.08	52.68	74.00	-21.32	Peak	HORIZONTAL
				GFSK '	Tx mode 2441	MHz			
3394.00	38.55	31.86	29.79	7.19	47.81	74.00	-26.19	Peak	VERTICAL
4885.00	37.50	33.72	29.33	8.56	50.45	74.00	-23.55	Peak	VERTICAL
5935.00	36.57	34.96	29.20	9.63	51.96	74.00	-22.04	Peak	VERTICAL
6992.00	36.34	36.19	30.38	10.42	52.57	74.00	-21.43	Peak	VERTICAL
7468.00	36.11	36.58	30.75	10.83	52.77	74.00	-21.23	Peak	VERTICAL
7755.00	36.28	36.65	31.02	11.00	52.91	74.00	-21.09	Peak	VERTICAL
3989.00	36.95	33.37	29.05	7.60	48.87	74.00	-25.13	Peak	HORIZONTAL
4647.00	36.72	33.77	29.28	8.31	49.52	74.00	-24.48	Peak	HORIZONTAL
5445.00	34.47	34.59	29.28	9.13	48.91	74.00	-25.09	Peak	HORIZONTAL
6208.00	35.08	35.34	29.38	9.79	50.83	74.00	-23.17	Peak	HORIZONTAL
6803.00	36.10	36.05	30.24	10.24	52.15	74.00	-21.85	Peak	HORIZONTAL
7762.00	35.57	36.65	31.02	11.00	52.20	74.00	-21.80	Peak	HORIZONTAL
				GFSK '	Tx mode 2480)MHz			
2323.00	43.36	29.51	29.30	5.94	49.51	74.00	-24.49	Peak	VERTICAL
3996.00	37.61	33.39	29.05	7.61	49.56	74.00	-24.44	Peak	VERTICAL
4962.00	37.92	33.71	29.34	8.63	50.92	74.00	-23.08	Peak	VERTICAL
6068.00	35.94	35.11	29.24	9.72	51.53	74.00	-22.47	Peak	VERTICAL
6950.00	36.26	36.16	30.35	10.39	52.46	74.00	-21.54	Peak	VERTICAL
7804.00	36.86	36.66	31.04	11.03	53.51	74.00	-20.49	Peak	VERTICAL
3443.00	38.60	31.88	29.68	7.24	48.04	74.00	-25.96	Peak	HORIZONTAL
4311.00	36.82	33.65	29.12	7.94	49.29	74.00	-24.71	Peak	HORIZONTAL
4990.00	36.21	33.70	29.35	8.67	49.23	74.00	-24.77	Peak	HORIZONTAL
5599.00	35.88	34.76	29.24	9.29	50.69	74.00	-23.31	Peak	HORIZONTAL
6768.00	35.31	36.02	30.22	10.21	51.32	74.00	-22.68	Peak	HORIZONTAL
7811.00	35.36	36.66	31.04	11.03	52.01	74.00	-21.99	Peak	HORIZONTAL
Result: Pass									
		/0			ODSV the				

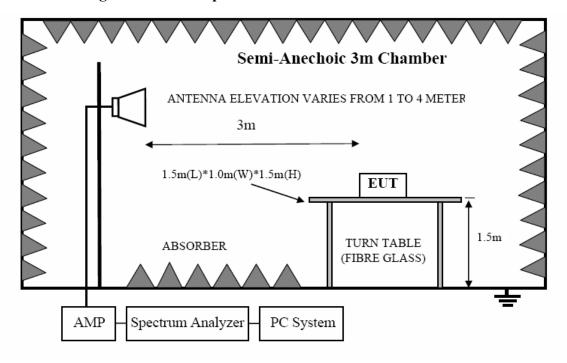
Note: 1.30MHz \sim 18GHz: (Scan with GFSK, π /4 QPSK, the worst case is GFSK Mode)

2. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

Report No.: DDT-R17Q0628-1E2

10. Band Edge Compliance (radiated method)

10.1. Block diagram of test setup



10.2. Limit

All restriction bands should comply with 15.209, other emission should be at least 20dB blow the fundamental.

10.3. Test Procedure

Same with clause 9.3 except change investigated frequency range from 2310MHz to 2410MHz and 2475MHz to 2510MHz.

Remark: All restriction band have been tested, and only the worse case is shown in report.

10.4. Test result

PASS. (See below detailed test result)

Remark:hopping on and hopping off mode all have been test, hopping off mode is worse and reported only.

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0628-1\RF.EM6

Test Date : 2017-07-25 Tested By : Sincere

EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTA PARTY

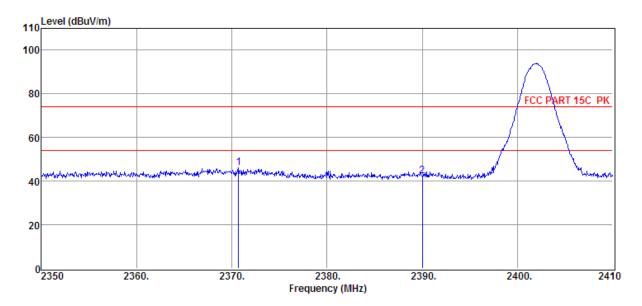
Power Supply : AC 120V/60Hz **Test Mode** : TX mode $\pi/4$ QPSK CH0

Condition Temp:24.5'C,Humi:55%,
Antenna/Distance : 2016 HF907/3m/HORIZONTAL

Press:100.1kPa

Data: 1

Memo



Item	Freq.	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2370.70	39.94	29.70	29.37	6.01	46.28	74.00	-27.72	Peak	HORIZONTAL
2	2390.00	35.99	29.78	29.42	6.03	42.38	74.00	-31.62	Peak	HORIZONTAL

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

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

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0628-1\RF.EM6

Test Date : 2017-07-25 Tested By : Sincere

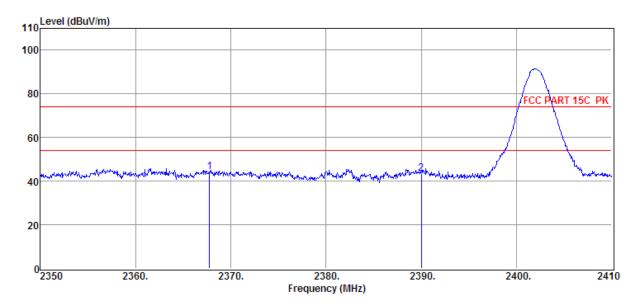
EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTA PARTY

Power Supply : AC 120V/60Hz **Test Mode** : TX mode $\pi/4$ QPSK CH0

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2016 HF907/3m/VERTICAL

Memo :

Data: 2



Item	Freq.	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2367.76	37.99	29.69	29.37	6.01	44.32	74.00	-29.68	Peak	VERTICAL
2	2390.00	36.99	29.78	29.42	6.03	43.38	74.00	-30.62	Peak	VERTICAL

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

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

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0628-1\RF.EM6

Test Date : 2017-07-25 Tested By : Sincere

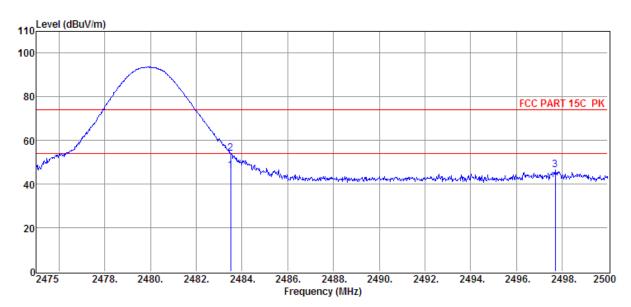
EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTA PARTY

Power Supply : AC 120V/60Hz **Test Mode** : TX mode π /4 QPSK CH78

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2016 HF907/3m/VERTICAL

Memo :

Data: 3



Item	Freq.	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2483.50	39.54	30.14	29.71	6.13	46.10	54.00	-7.90	Average	VERTICAL
2	2483.50	47.43	30.14	29.71	6.13	53.99	74.00	-20.01	Peak	VERTICAL
3	2497.70	39.69	30.19	29.73	6.17	46.32	74.00	-27.68	Peak	VERTICAL

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

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

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0628-1\RF.EM6

Test Date : 2017-07-25 Tested By : Sincere

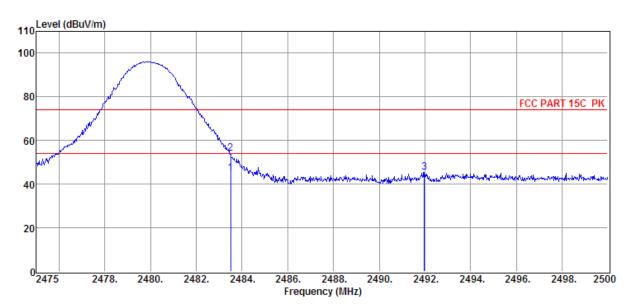
EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTA PARTY

Power Supply : AC 120V/60Hz **Test Mode** : TX mode π /4 QPSK CH78

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2016 HF907/3m/HORIZONTAL

Memo :

Data: 4



Item	Freq.	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2483.50	38.49	30.14	29.71	6.13	45.05	54.00	-8.95	Average	HORIZONTAL
2	2483.50	47.56	30.14	29.71	6.13	54.12	74.00	-19.88	Peak	HORIZONTAL
3	2491.98	38.87	30.17	29.73	6.17	45.48	74.00	-28.52	Peak	HORIZONTAL

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

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

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0628-1\RF.EM6

Test Date : 2017-07-25 Tested By : Sincere

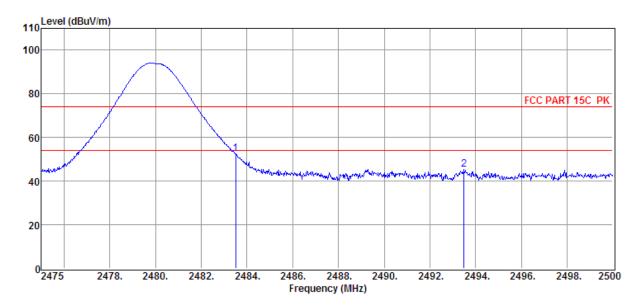
EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTA PARTY

Power Supply : AC 120V/60Hz Test Mode : TX mode GFSK CH78

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : 2016 HF907/3m/HORIZONTAL

Memo :

Data: 5



Item	Freq.	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2483.50	45.99	30.14	29.71	6.13	52.55	74.00	-21.45	Peak	HORIZONTAL
2	2493.50	38.72	30.18	29.73	6.17	45.34	74.00	-28.66	Peak	HORIZONTAL

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

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

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0628-1\RF.EM6

Test Date : 2017-07-25 Tested By : Sincere

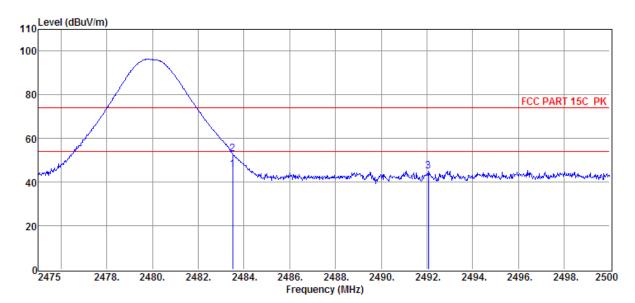
EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTA PARTY

Power Supply : AC 120V/60Hz Test Mode : TX mode GFSK CH78

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2016 HF907/3m/VERTICAL

Memo :

Data: 6



Item	Freq.	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2483.50	39.11	30.14	29.71	6.13	45.67	54.00	-8.33	Average	VERTICAL
2	2483.50	46.50	30.14	29.71	6.13	53.06	74.00	-20.94	Peak	VERTICAL
3	2492.08	38.28	30.17	29.73	6.17	44.89	74.00	-29.11	Peak	VERTICAL

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

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

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0628-1\RF.EM6

Test Date : 2017-07-25 Tested By : Sincere

EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTA PARTY

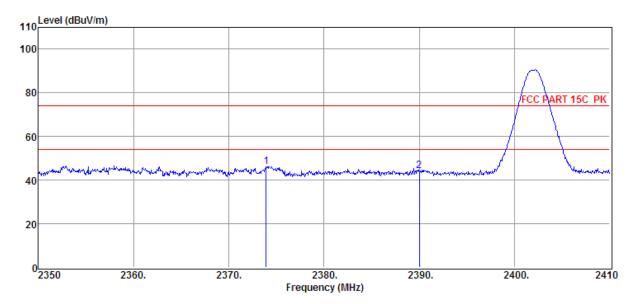
Power Supply : AC 120V/60Hz Test Mode : TX mode GFSK CH0

Condition Temp:24.5'C,Humi:55%,
Antenna/Distance : 2016 HF907/3m/HORIZONTAL

Press:100.1kPa

Memo :

Data: 13



Item	Freq.	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2373.94	39.94	29.71	29.39	6.01	46.27	74.00	-27.73	Peak	HORIZONTAL
2	2390.00	37.99	29.78	29.42	6.03	44.38	74.00	-29.62	Peak	HORIZONTAL

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

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

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 3m Chamber 1# D:\2017 RE1# Report Data\17Q0628-1\RF.EM6

Test Date : 2017-07-25 Tested By : Sincere

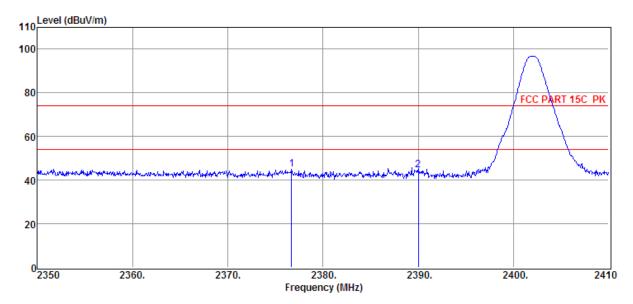
EUT : Rechargeable Speaker w/ Party Lights Model Number : INSTA PARTY

Power Supply : AC 120V/60Hz Test Mode : TX mode GFSK CH0

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa : Antenna/Distance : 2016 HF907/3m/VERTICAL

Memo :

Data: 14



Item	Freq.	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2376.70	38.53	29.72	29.39	6.01	44.87	74.00	-29.13	Peak	VERTICAL
2	2390.00	38.10	29.78	29.42	6.03	44.49	74.00	-29.51	Peak	VERTICAL

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

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

11. Band Edge Compliance (conducted method)

11.1. Block diagram of test setup

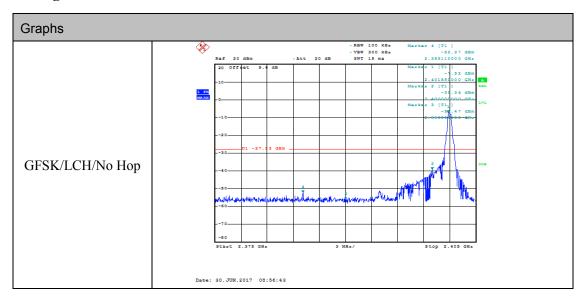
Same as section 4.1

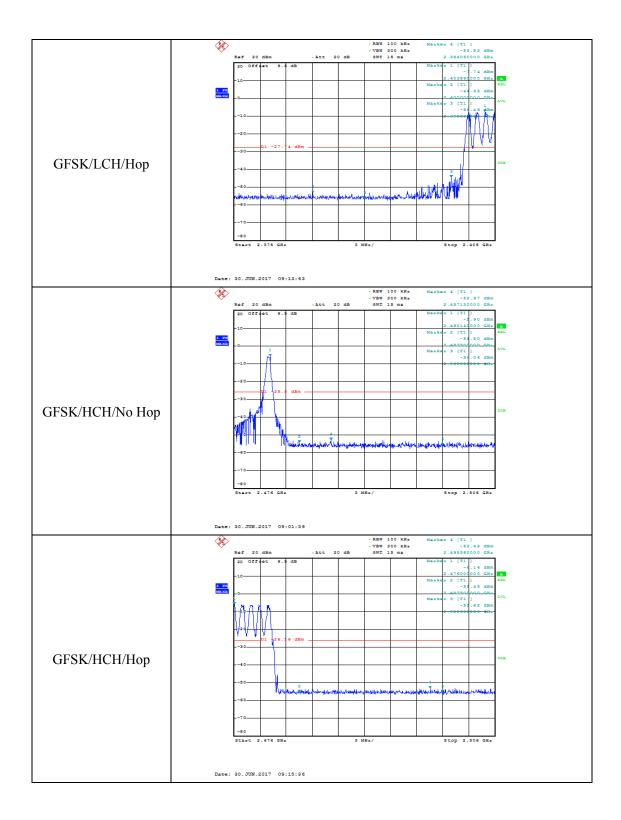
11.2. Limit

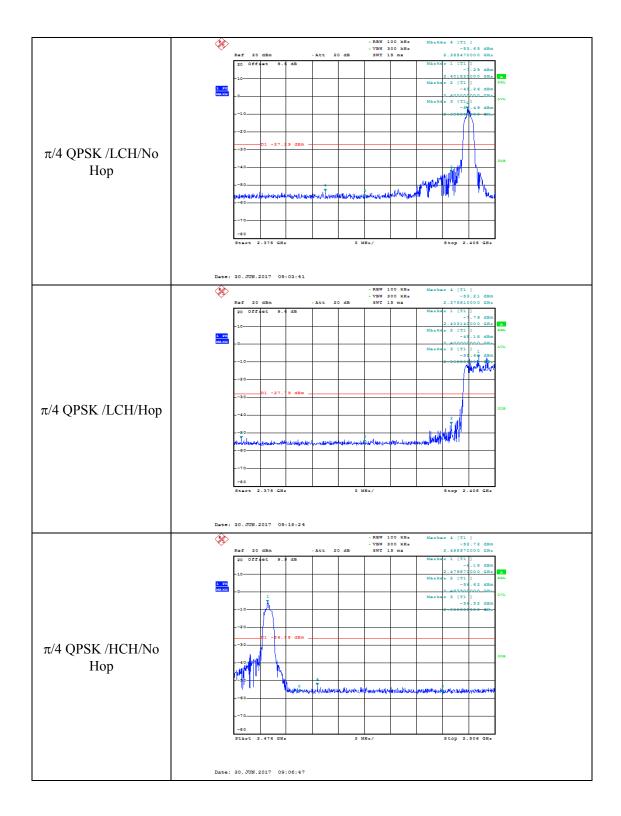
All restriction bands should comply with 15.209, other emission should be at least 20dB blow the fundamental.

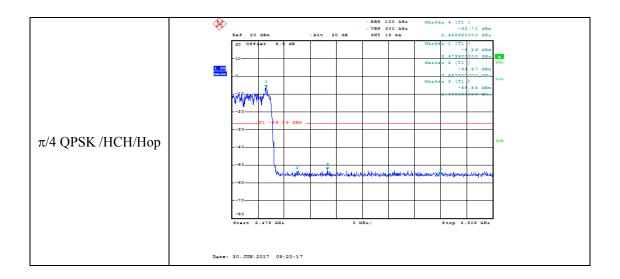
11.3. Test result

Mode	Freq. (MHz)	Conclusion					
	Hopping off 2402	PASS					
GFSK	Hopping off 2480	PASS					
	Hopping on	PASS					
	Hopping off 2402	PASS					
π/4 QPSK	Hopping off 2480	PASS					
	Hopping on	PASS					
Test Date: Jun	Test Date: Jun. 30, 2017Test Engineer: Damon Hu						



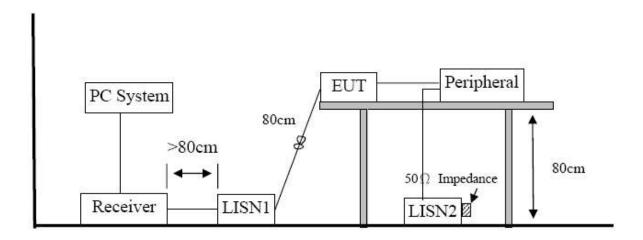






12. Power Line Conducted Emission

12.1. Block diagram of test setup



12.2. Power Line Conducted Emission Limits(Class B)

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.

12.3. 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 3 of this report.

Report No.: DDT-R17Q0628-1E2

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

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.

12.4. 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

TR-4-E-010 Conducted Emission Test Result

Report No.: DDT-R17Q0628-1E2

Test Site : DDT 1# Shield Room E:\2017 CE report data\17Q0628-1\CE.EM6

Test Date : 2017-06-28 Tested By : Aaron

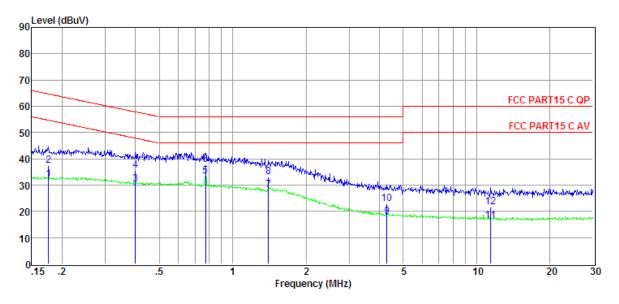
EUT : Rechargeable Speaker w/Party Lights Model Number : INSTA PARTY

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

 $\begin{tabular}{ll} \textbf{Condition} & : & Temp: 24.5 \cite{C,Humi:} 55\%, \\ Press: 100.1 \cite{R,Press:} 100.1 \cite{C,Humi:} 1888 & : & 2016 \cite{E,NV216/NEUTRAL} \\ \end{tabular}$

Memo :

Data: 10



Item	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	12.52	9.61	0.02	9.86	32.01	54.68	-22.67	Average	NEUTRAL
2	0.18	17.79	9.61	0.02	9.86	37.28	64.68	-27.40	QP	NEUTRAL
3	0.40	10.92	9.61	0.02	9.86	30.41	47.86	-17.45	Average	NEUTRAL
4	0.40	15.93	9.61	0.02	9.86	35.42	57.86	-22.44	QP	NEUTRAL
5	0.78	13.94	9.61	0.03	9.86	33.44	46.00	-12.56	Average	NEUTRAL
6	0.78	18.17	9.61	0.03	9.86	37.67	56.00	-18.33	QP	NEUTRAL
7	1.40	8.69	9.62	0.03	9.86	28.20	46.00	-17.80	Average	NEUTRAL
8	1.40	13.67	9.62	0.03	9.86	33.18	56.00	-22.82	QP	NEUTRAL
9	4.29	-1.53	9.65	0.06	9.88	18.06	46.00	-27.94	Average	NEUTRAL
10	4.29	3.43	9.65	0.06	9.88	23.02	56.00	-32.98	QP	NEUTRAL
11	11.44	-3.29	9.77	0.11	9.91	16.50	50.00	-33.50	Average	NEUTRAL
12	11.44	1.73	9.77	0.11	9.91	21.52	60.00	-38.48	QP	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse LimiterFactor + 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-R17Q0628-1E2

Test Site : DDT 1# Shield Room E:\2017 CE report data\17Q0628-1\CE.EM6

Test Date : 2017-06-28 Tested By : Aaron

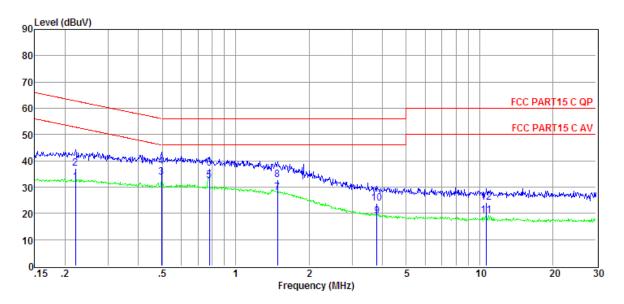
EUT : Rechargeable Speaker w/Party Lights Model Number : INSTA PARTY

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

 $\begin{tabular}{ll} \textbf{Condition} & : & Temp: 24.5 \cite{C,Humi:} 55\%, \\ Press: 100.1 \cite{R/C,Humi:} 55\%, \\ \hline \end{tabular} & \textbf{LISN} & : 2016 \end{tabular} \end{tabular}$

Memo :

Data: 12



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	Factor (dB)	(dBµV)	(dBµV)	(dB)		
1	0.22	12.30	9.61	0.02	9.86	31.79	52.79	-21.00	Average	LINE
2	0.22	17.67	9.61	0.02	9.86	37.16	62.79	-25.63	QP	LINE
3	0.50	14.28	9.61	0.02	9.86	33.77	46.05	-12.28	Average	LINE
4	0.50	18.14	9.61	0.02	9.86	37.63	56.05	-18.42	QP	LINE
5	0.78	13.07	9.61	0.03	9.86	32.57	46.00	-13.43	Average	LINE
6	0.78	17.55	9.61	0.03	9.86	37.05	56.00	-18.95	QP	LINE
7	1.49	8.41	9.62	0.03	9.86	27.92	46.00	-18.08	Average	LINE
8	1.49	13.22	9.62	0.03	9.86	32.73	56.00	-23.27	QP	LINE
9	3.80	-0.79	9.65	0.06	9.87	18.79	46.00	-27.21	Average	LINE
10	3.80	4.17	9.65	0.06	9.87	23.75	56.00	-32.25	QP	LINE
11	10.68	-0.47	9.75	0.11	9.90	19.29	50.00	-30.71	Average	LINE
12	10.68	4.44	9.75	0.11	9.90	24.20	60.00	-35.80	QP	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse LimiterFactor + 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.

13. Antenna Requirements

13.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gaingreater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Report No.: DDT-R17Q0628-1E2

13.2. Result

See 2.1.

END OF REPORT