

Report No: DDT-RE130144

■ Issued Date: 2013/06/27

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	inMusic Brands, Inc
Address		200 SCENIC VIEW DRIVE, SUITE 201 CUMBERLAND, RI02864, U.S.A.
Equipment under Test	:	BT Speaker
Model No		Party Starter, Party 2 Go
Trade Mark		ION
FCC ID		Y4O-ISP31
Manufacturer	:	Dongguan Integrity Electronic Co.,Ltd
Address	:	NO. 68, Huanghe Rd., Fenghuanggang, Tangxia Township, Dongguan City, Guangdong Province, China

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

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

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TEST REPORT DECLARE

Applicant	:	inMusic Brands, Inc	
Address	:	200 SCENIC VIEW DRIVE, SUITE 201 CUMBERLAND, RI02864, U.S.A.	
Equipment under Test	:	BT Speaker	
Model No	:	Party Starter, Party 2 Go	
FCC ID	:	Y4O-ISP31	
Trade Mark	:	ION	
Manufacturer	:	Dongguan Integrity Electronic Co.,Ltd	
Address	:	NO. 68, Huanghe Rd., Fenghuanggang, Tangxia Township, Dongguan City, Guangdong Province, China	

Test Standard Used: FCC Rules and Regulations Part 15 Subpart C: 2012

Test procedure used: ANSI C63.10:2009

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-RE130144		
Date of Test:	2013/06/17~2013/06/24	Date of Report:	2013/06/27

Prepared By:

Leo Liu/Engineer

Jamy Yu/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.

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 :2009	PASS
20dB Bandwidth	FCC Part 15: 15.215 ANSI C63.10 :2009	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10 :2009	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. General test information

2.1. Description of EUT

EUT* Name	:	BT Speaker
Model Number	:	Party Starter, Party 2 Go
Trade Mark	:	ION
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 3.7V from battery and DC 5V from PC
Radio Specification	:	Bluetooth V3.0+EDR
Operation frequency	:	2402MHz -2480MHz
Modulation	:	GFSK, π/4 QPSK, 8-DPSK
Data rate	:	1Mpbs, 2Mbps, 3Mbps
Antenna Type	:	Integrated PCB antenna, Maximum Gain: 0dBi
Date of Receipt	:	2013/06/17
Sample Type	:	Series production

Note1: EUT is the ab. of equipment under test.

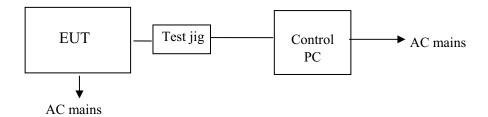
2.2. Model description

The EUT models Party Starter and Party 2 Go is the same except model number.

2.3. Assistant equipment used for test

Description of Assistant equipment	Manufacturer	Model number or Type	Other	
HP Pro 3330 Small From Factor (PC)	НР	A6T13PA#AB2	1.5m long, unshielded	
LCD COLOR DISPLAY	НР	GV537A	AC Line: 1.5m long, unshielded VGA line: 1.5m long, unshielded	
Keyboard	НР	KB-0316	Signal line: 1.5m long, unshielded	
Mouse	НР	M-SBF96	Signal line: 1.5m long, unshielded	

2.4. Block diagram of EUT configuration for test



EUT's Bluetooth module was connected to a special test jig provided by manufacturer which has a standard RSS-232 connector to connect to control PC, and the control PC will run a special test software "RF Control Kit v1.0.exe" provided by manufacturer to control EUT work in test mode as blow table.

Tested mode, channel, information					
Mode	Channel	Frequency (MHz)			
GFSK hopping on Tx Mode	CH0 to CH78	2402 to 2480			
8-DPSK hopping on Tx Mode	CH0 to CH78	2402 to 2480			
	CH0	2402			
GFSK hopping off Tx Mode	CH39	2441			
	CH78	2480			
	CH0	2402			
$\pi/4$ QPSK hopping off Tx Mode	CH39	2441			
	CH78	2480			
	CH0	2402			
8-DPSK hopping off Tx Mode	CH39	2441			
	CH78	2480			

Note1: Some modes not apply for all the test items.

Note2: For $\pi/4$ QPSK its same modulation type with 8-DPSK, and based exploratory test, there is no significant difference of that two types test result, so except output power, all other items final test were only performed with 8-DPSK and GFSK...

2.5. 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

2.6. 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: +86-0769-22891499 http://www.dgddt.com

FCC Registration Number: 270092

2.7. Measurement uncertainty

Test Item	Uncertainty
Occupied Channel Bandwidth	±1%
Uncertainty for radio frequency	1×10 ⁻⁹
RF Output power, conducted	±0.6dB
Power Spectral Density, Conducted	±1.2dB
Unwanted Emissions, Conducted	±0.6dB
Temperature	±0.2℃
Humidity	±1%
DC and Low frequency voltage	±0.5%
Time	±1%
Duty Cycle	±1%
Uncertainty for Radiation Emission test	3.14 dB (Polarize: V)
(30MHz-1GHz)	3.16 dB (Polarize: H)
Uncertainty for Radiation Emission test	2.08dB(Polarize: V)
(1GHz to 25GHz)	2.56dB (Polarize: H)
Uncertainty for Conduction emission test(150KHz-30MHz)	2.44dB
Uncertainty for Radiation Emission test (9KHz-150KHz)	3.89dB
Uncertainty for Radiation Emission test (150KHz-30MHz)	3.21dB

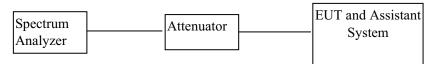
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Maximum Peak Output Power

3.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2012/11/26	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2012/11/26	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2012/11/26	1 Year

3.2. Block diagram of test setup



3.3. Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-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.

3.4. Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 3.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) Measure the maximum output power of EUT by spectrum analyzer with PK detector and RBW=2MHz(above 6dB bandwidth of measured signal), VBW=3MHz

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

3.5. Test Result

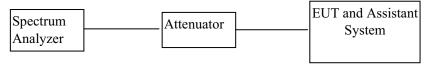
EUT: BT Speak	ter M/N: Party S	Starter			
Mode	Freq (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Conclusion
	2402	0.87	30	29.13	PASS
GFSK	2441	0.80	30	29.20	PASS
	2480	1.34	30	28.66	PASS
	2402	-0.58	30	30.58	PASS
π/4 QPSK	2441	-0.44	30	30.44	PASS
	2480	0.03	30	29.97	PASS
	2402	-1.16	30	31.16	PASS
8-DPSK	2441	-0.76	30	30.76	PASS
	2480	-0.07	30	30.07	PASS
Test Date: 2013/06/21 Test Engineer: Leo				eo	

4. 20dB Bandwidth

4.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2012/11/26	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2012/11/26	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2012/11/26	1 Year

4.2. Block diagram of test setup



4.3. 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.

4.4. Test Procedure

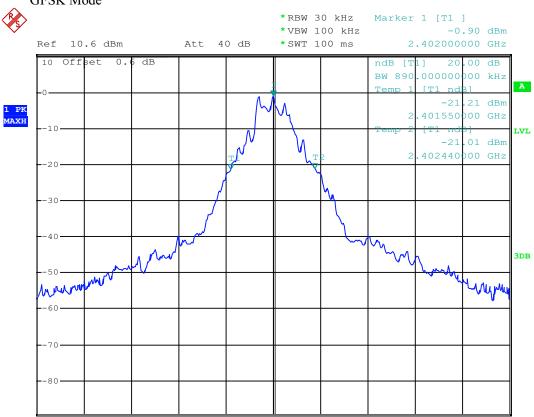
- (1) Configure EUT and assistant system according clause 2.4 and 4.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 kHz RBW and 100 kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

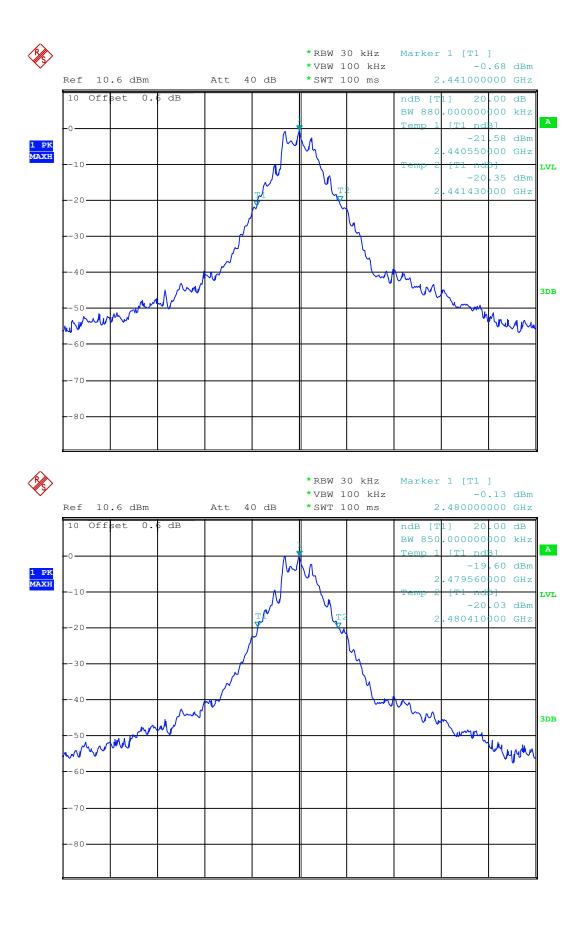
4.5. Test Result

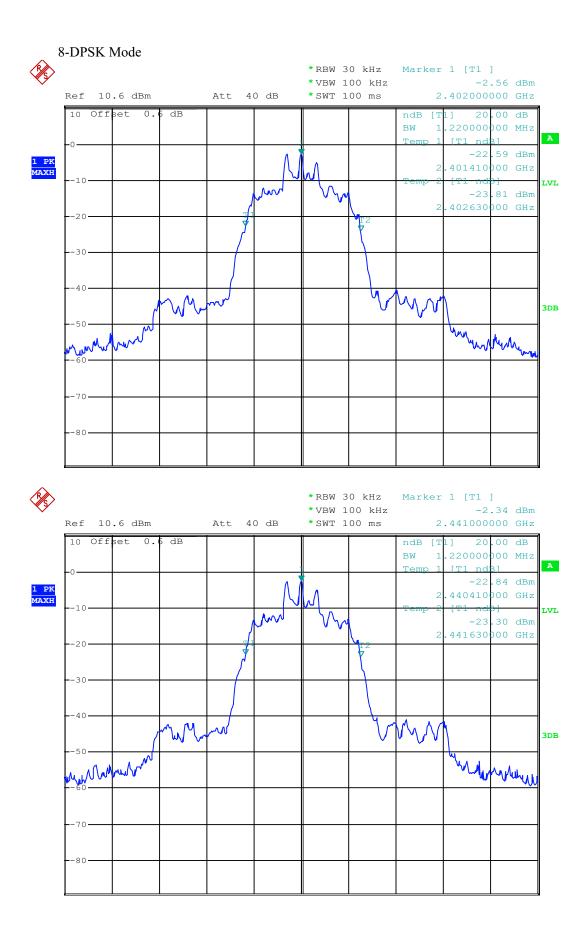
EUT: BT Speak	ker M/N: Party	Starter			
Mode	Freq (MHz)	Result (MHz)	Limit (MHz)	Margin (MHz)	Conclusion
GFSK	2402	0.89	/	/	PASS
	2441	0.88	/	/	PASS
	2480	0.85	/	/	PASS
	2402	1.22	/	/	PASS
8-DPSK	2441	1.22	/	/	PASS
	2480	1.22	/	/	PASS
Test Date: 2013/06/21			T	est Engineer : 1	Leo

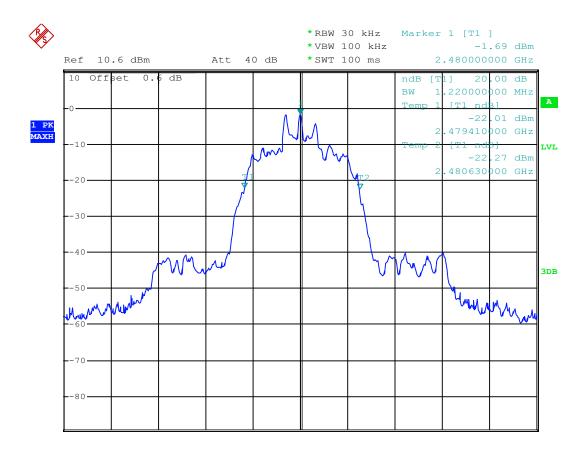
4.6. Original test data









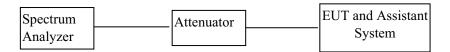


5. Carrier Frequency Separation

5.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2012/11/26	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2012/11/26	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2012/11/26	1 Year

5.2. Block diagram of test setup



5.3. 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.

5.4. Test Procedure

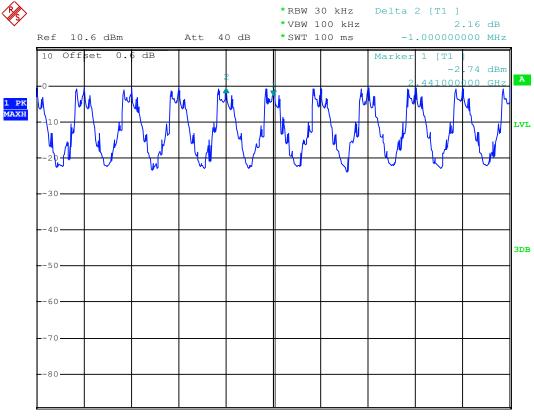
- (1) Configure EUT and assistant system according clause 2.4 and 5.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) The carrier frequency was measured by spectrum analyzer with 100 KHz RBW and 300KHz VBW.

5.5. Test Result

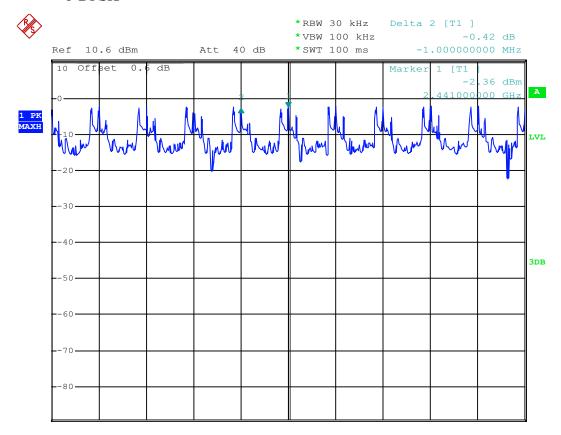
EUT: BT Speaker M/N: Party Starter							
Mode	Channel separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz) 2/3 of 20dB bandwidth	Conclusion			
GFSK	1.0	0.87	0.580	PASS			
8-DPSK	1.0	1.22	0.813	PASS			
Test Date : 2013/06/21 Test Engineer : Leo							

5.6. Original test data

GFSK



8-DPSK

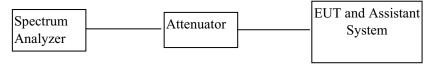


6. Number Of Hopping Channel

6.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2012/11/26	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2012/11/26	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2012/11/26	1 Year

6.2. Block diagram of test setup



6.3. Limits

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

6.4. Test Procedure

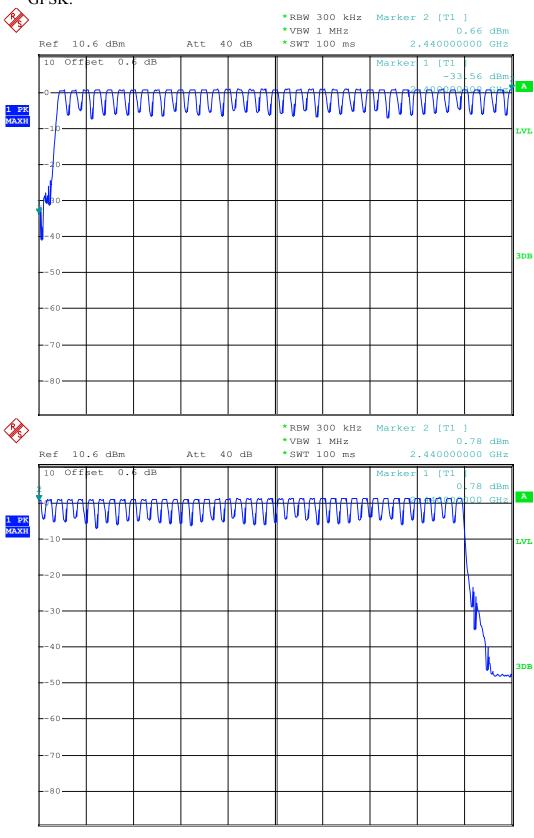
- (1) Configure EUT and assistant system according clause 2.4 and 6.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) The number of hopping channel was measured by spectrum analyzer with 100 kHz RBW and 300KHz VBW.

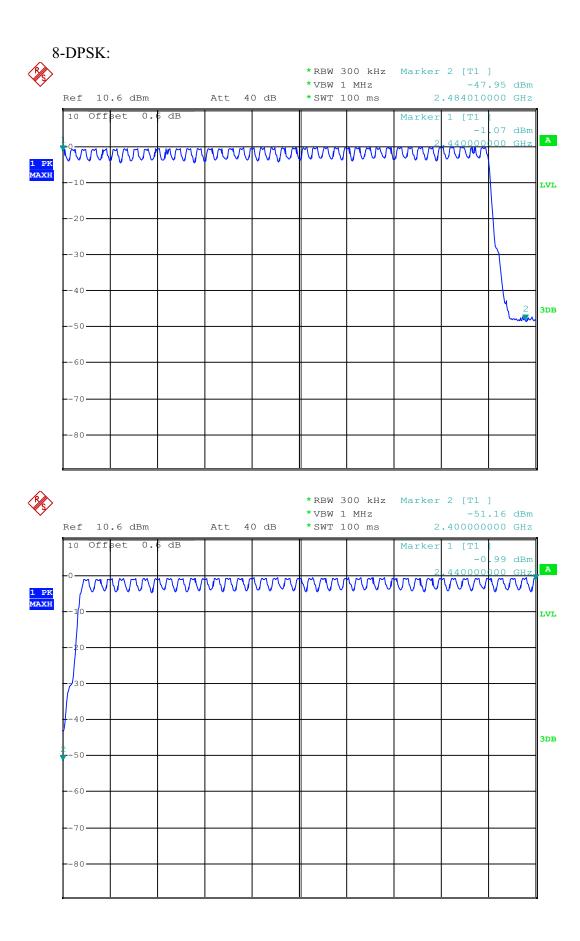
6.5. Test Result

EUT: BT Speaker	M/N: Party Starter		
Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
8-DPSK	79	>15	PASS
Test Date : 2013/00	5/21	Test Engin	eer : Leo

6.6. Original test data





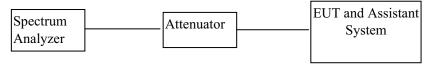


7. Dwell Time

7.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2012/11/26	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2012/11/26	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2012/11/26	1 Year

7.2. Block diagram of test setup



7.3. 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.

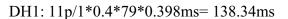
7.4. Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 7.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) 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 = Hopping number/measure time *0.4*79*pulse's on time

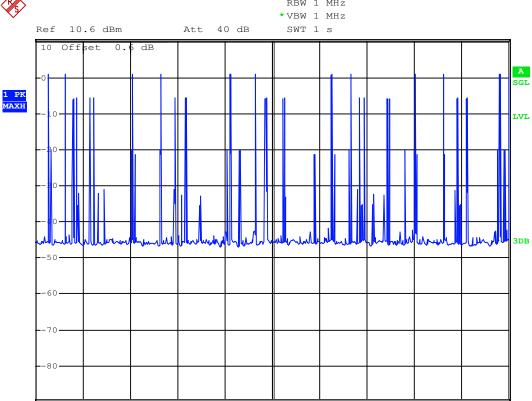
7.5. Test Result

EUT: BT Speaker	M/N: Party Starter			
Mode	Number of hopping channel	Limit	Conclusion	
DH1	138.34ms	<400ms	PASS	
DH3	312.84ms	<400ms	PASS	
DH5	367.82ms	<400ms	PASS	
3-DH1	141.82ms	<400ms	PASS	
3-DH3	314.74ms	<400ms	PASS	
3-DH5	369.09ms	<400ms	PASS	
Test Date : 2013/00	5/21	Test Engineer: Leo		

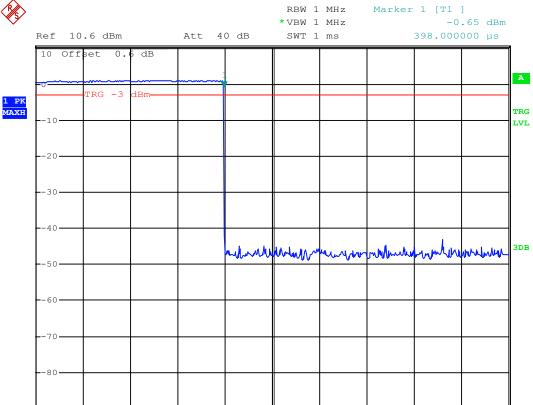
7.6. Original test data

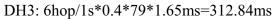


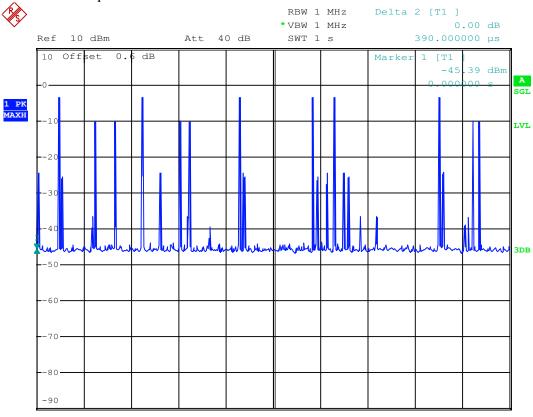


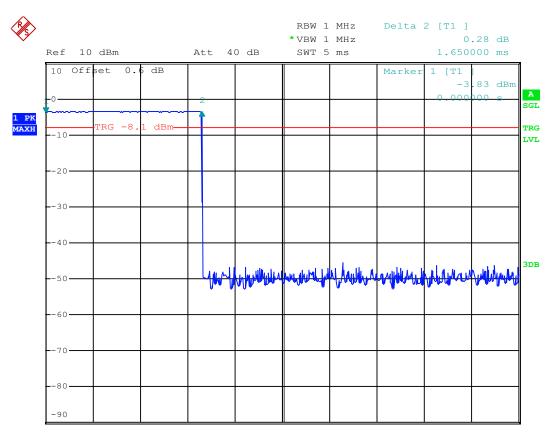




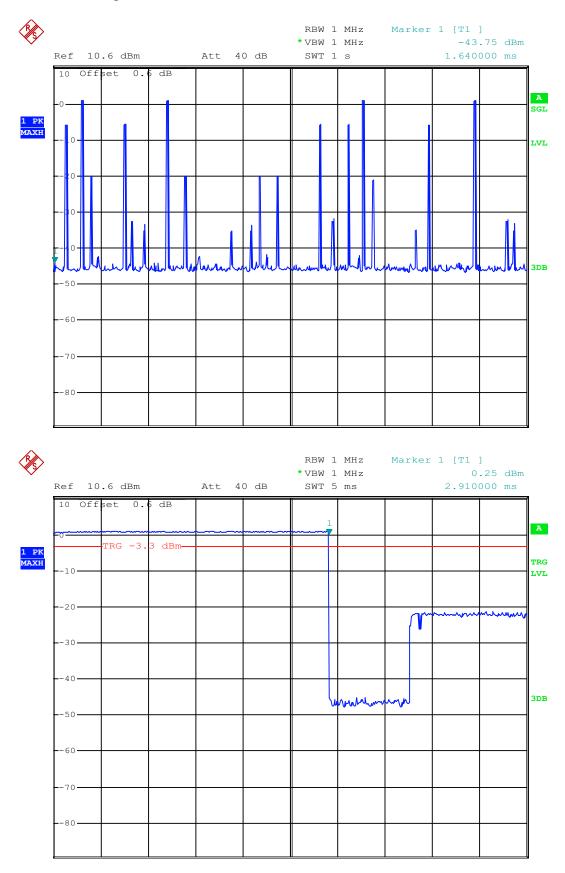


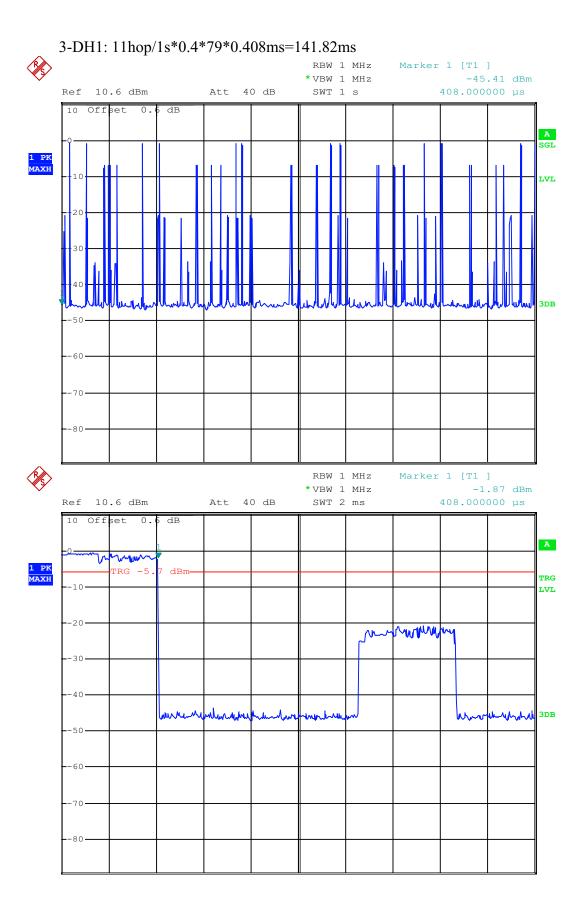




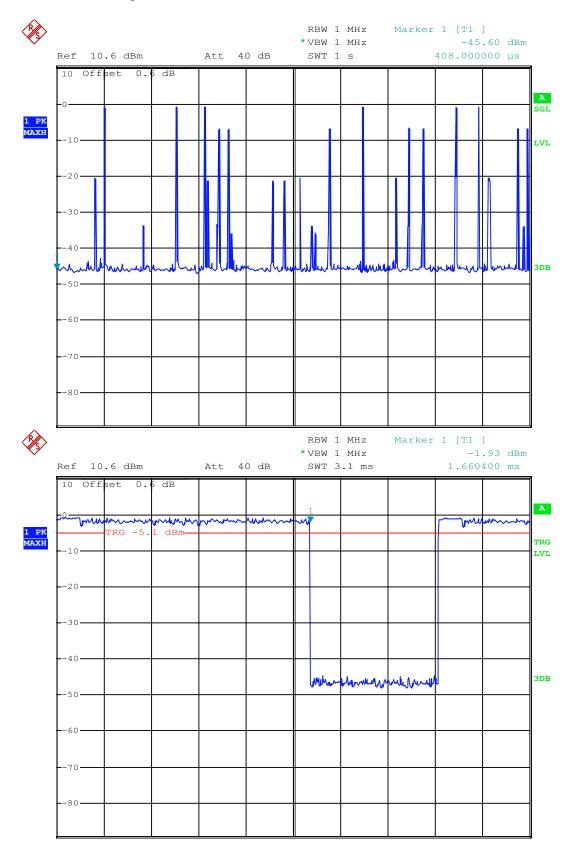


DH5: 4hop/1s*0.4*79*2.91ms=367.82ms

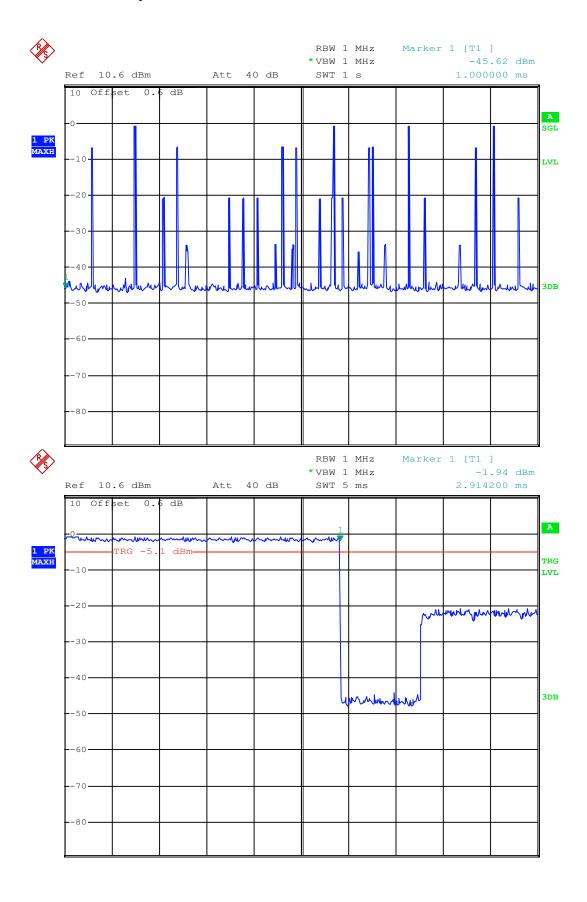




3-DH3: 6hop/1s*0.4*79*1.66ms=314.74ms



3-DH5: 4hop/1s*0.4*79*2.92=369.09ms



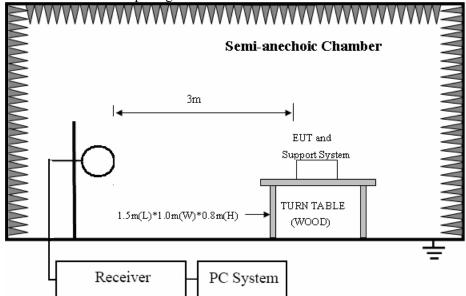
8. Radiated emission

8.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESU8	100316	2012/11/26	1 Year
2	Spectrum analyzer	R&S	FSU	1166.1660.26	2012/11/26	1 Year
3	Loop antenna	TESEQ	HLA6120	20129	2012/11/26	1 Year
4	Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	2012/11/26	1 Year
5	Double Ridged Horn Antenna	R&S	HF907	100276	2012/11/26	1 Year
6	Horn Antenna	EMCO	3116	00060095	2012/11/26	1 Year
7	Pre-Amplifier	R&S	SCU-01	10049	2012/11/26	1 Year
8	Pre-amplifier	A.H.	PAM0-0118	360	2012/11/26	1 Year
9	Pre-amplifier	A.H.	PAM-1840VH	562	2012/11/26	1 Year
10	RF Cable	R&S	R01	10403	2012/11/26	1 Year
11	RF Cable	R&S	R02	10512	2012/11/26	1 Year

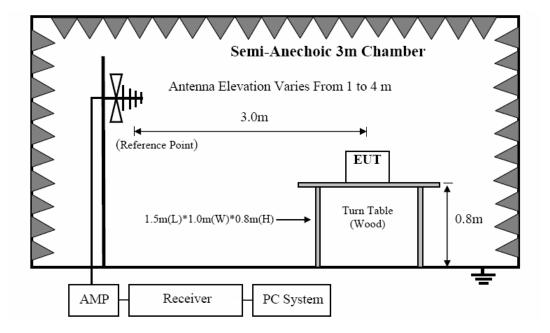
8.2. Block diagram of test setup

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

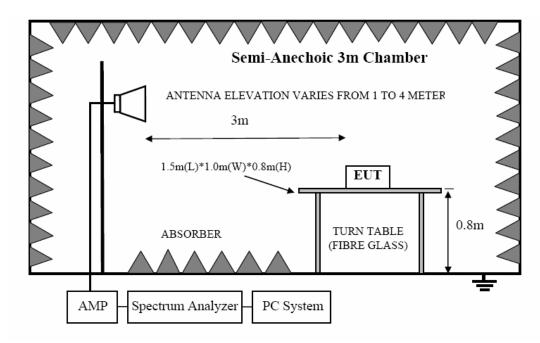


Report No: DDT-RE130144

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 a appropriate high pass filter was inserted in the input port of AMP.

8.3. Limit

8.3.1 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)

Report No: DDT-RE130144

8.3.2 FCC 15.209 Limit.

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT	
MHz	Meters	μV/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
Above 1000	3	74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/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 then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

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

8.3.3 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.

8.4. Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic

chamber.

(2) Setup EUT and assistant system according clause 2.4 and 8.2

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

Report No: DDT-RE130144

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 C63.10:2009 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.

- (4) 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.

- (5) 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 2009 on Radiated Emission test.
- (6) 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.

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

Report No: DDT-RE130144

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

(8) 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; RBW is set at 1MHz, VBW is set at 10Hz for Average measure(according ANSI C63.10:2009 clause 4.2.3.2.3 procedure for average measure).

8.5. Test result

PASS. (See below detailed test result)

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

Note1: According exploratory test no any obvious emission were detected from 18GHz to 25GHz, so the final test was performed with frequency range from 9KHz 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.

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\13QE0039RE2.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply: DC 3.7V from battery and DC 5V Test Mc

from PC

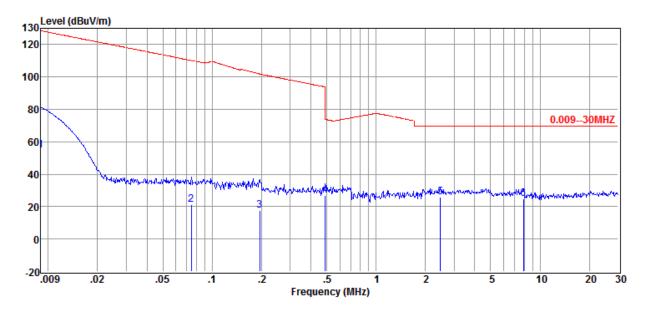
Test Mode: TX mode

Condition : Temp:24.5°C,Humi:55%,Press:100

Condition : 1emp.24.3 C, rumin.33 / 6, Fless. 100 Antenna/Distance : 2013 FMZB 1519/3m/HORIZONTAL

Memo :

Data: 1



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	(dBµV/m)	(dBµV/m)	(dB)		
1	0.01	34.57	19.92	0.00	0.04	54.53	128.52	-73.99	Average	HORIZONTAL
2	0.07	1.18	19.83	0.00	0.07	21.08	110.13	-89.05	Average	HORIZONTAL
3	0.19	-2.28	19.76	0.00	0.14	17.62	101.88	-84.26	Average	HORIZONTAL
4	0.49	6.95	19.92	0.00	0.15	27.02	73.78	-46.76	QP	HORIZONTAL
5	2.47	5.86	19.70	0.00	0.23	25.79	69.54	-43.75	QP	HORIZONTAL
6	7.93	4.88	19.81	0.00	0.37	25.06	69.54	-44.48	QP	HORIZONTAL

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

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

Report No: DDT-RE130144

: TX mode

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\13QE0039RE2.EM6

EUT : BT Speaker Model Number : Party Starter

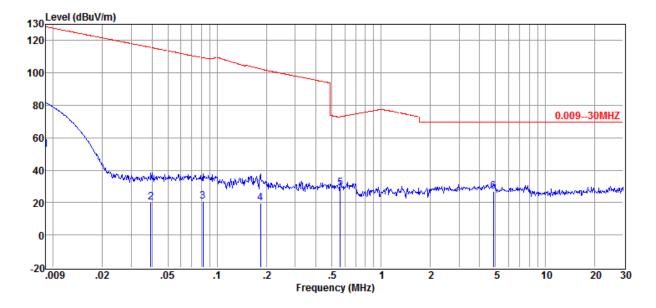
Power Supply : DC 3.7V from battery and DC 5V from PC Test Mode

Condition : Temp:24.5'C,Humi:55%,Press:100

Condition : Temp. 24.3 C, Tulini. 3576, Fless. 100 Antenna/Distance : 2013 FMZB 1519/3m/VERTICAL

Memo :

Data: 2



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	(dBµV/m)	(dBµV/m)	(dB)		
1	0.01	32.80	19.92	0.00	0.04	52.76	128.52	-75.76	Average	VERTICAL
2	0.04	0.11	19.83	0.00	0.05	19.99	115.69	-95.70	Average	VERTICAL
3	0.08	0.97	19.83	0.00	0.07	20.87	109.35	-88.48	Average	VERTICAL
4	0.18	-0.01	19.76	0.00	0.13	19.88	102.51	-82.63	Average	VERTICAL
5	0.56	8.82	19.96	0.00	0.07	28.85	72.99	-44.14	QP	VERTICAL
6	4.84	6.59	19.85	0.00	0.30	26.74	69.54	-42.80	QP	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\13QE0039RE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply : DC 3.7V from battery and DC 5V Test Mode

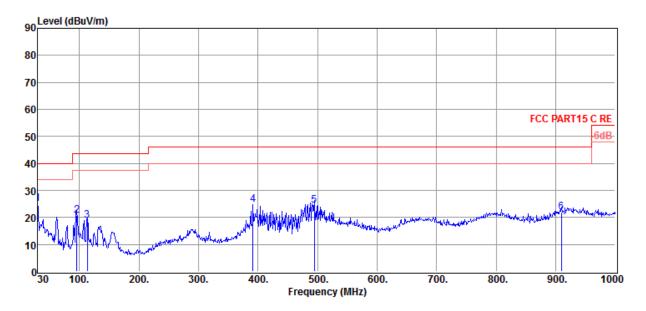
from PC

Test Mode: Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100 Antenna/Distance : 2013 VULB9163/3m/VERTICAL

Memo :

Data: 1



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	(dBµV/m)	(dBµV/m)	(dB)		
1	30.00	48.38	13.50	37.45	0.77	25.20	40.00	-14.80	QP	VERTICAL
2	95.96	50.37	9.80	40.90	1.39	20.66	43.50	-22.84	QP	VERTICAL
3	113.42	48.52	10.10	41.17	1.55	19.00	43.50	-24.50	QP	VERTICAL
4	391.81	49.76	15.00	43.08	3.06	24.74	46.00	-21.26	QP	VERTICAL
5	494.63	48.83	15.37	43.35	3.47	24.32	46.00	-21.68	QP	VERTICAL
6	909.79	38.11	22.27	43.40	4.83	21.81	46.00	-24.19	QP	VERTICAL

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

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\13QE0039RE.EM6

EUT : BT Speaker Model Number : Party Starter

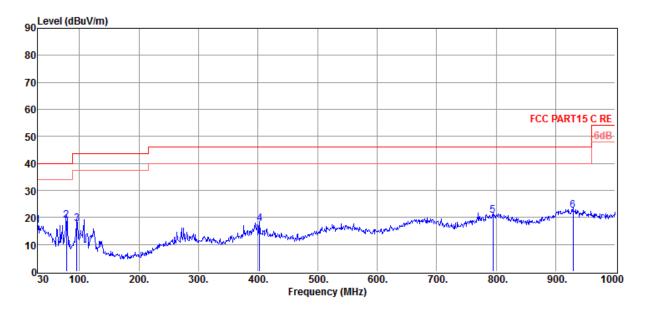
 $\begin{array}{lll} \textbf{Power Supply} & : \begin{array}{ll} DC \ 3.7V \ from \ battery \ and \ DC \ 5V \\ from \ PC \end{array} & \textbf{Test Mode} \end{array} \hspace{0.5cm} : Tx \ mode \end{array}$

Condition : Temp:24.5'C,Humi:55%,Press:100

Condition : 1emp.24.3 C, Tulin. 3576, Fless. 100 Antenna/Distance : 2013 VULB9163/3m/HORIZONTAL

Memo :

Data: 2



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	(dBµV/m)	(dBµV/m)	(dB)		
1	30.00	40.05	13.50	37.45	0.77	16.87	40.00	-23.13	QP	HORIZONTAL
2	78.50	49.17	8.20	39.80	1.26	18.83	40.00	-21.17	QP	HORIZONTAL
3	95.96	47.29	9.80	40.90	1.39	17.58	43.50	-25.92	QP	HORIZONTAL
4	402.48	42.33	15.27	43.08	3.12	17.64	46.00	-28.36	QP	HORIZONTAL
5	794.36	37.94	21.53	43.40	4.50	20.57	46.00	-25.43	QP	HORIZONTAL
6	929.19	38.33	22.60	43.40	4.90	22.43	46.00	-23.57	QP	HORIZONTAL

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

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

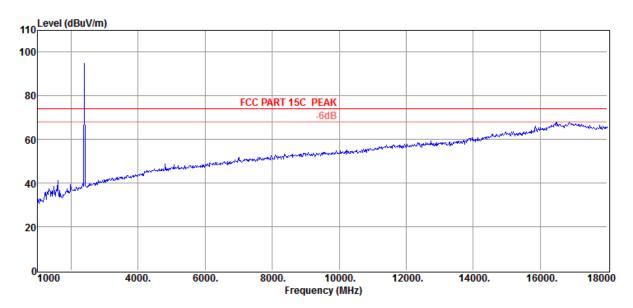
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH0 Tx Mode : GFSK CH0 Tx Mode

T 24.53G H : 550/ P 1

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 1



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

3. Test setup: RBW: 1MHz, VBW: 3MHz, Sweep time:auto

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

Test Date : 2013-06-21 Tested By : Leo

EUT : BT Speaker Model Number : Party Starter

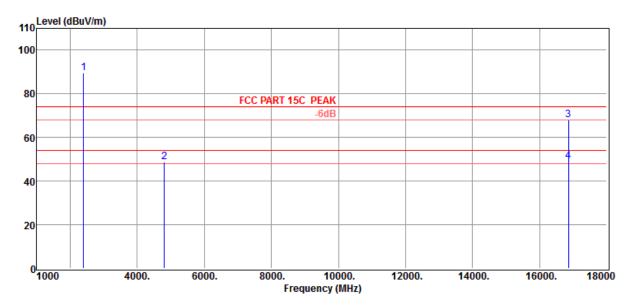
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH0 Tx Mode : GFSK CH0 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.3 C, Humi: 35%, Press: 100.1k
Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 2



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2402.00	95.27	29.99	43.84	8.35	89.77	74.00	15.77	Peak	HORIZONTAL
2	4804.00	45.77	35.40	44.38	12.07	48.86	74.00	-25.14	Peak	HORIZONTAL
3	16861.00	39.31	43.63	40.35	25.60	68.19	74.00	-5.81	Peak	HORIZONTAL
4	16861.00	20.36	43.63	40.35	25.60	49.24	54.00	-4.76	Average	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

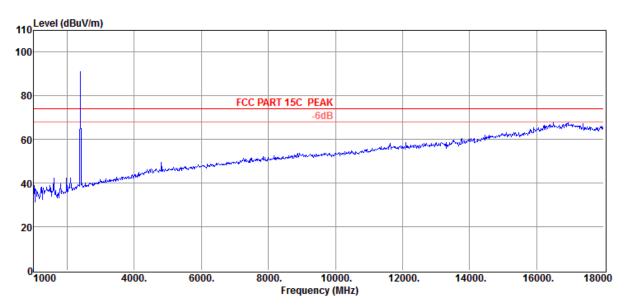
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH0 Tx Mode : GFSK CH0 Tx Mode

T 24.51G H : 550/ P 100

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

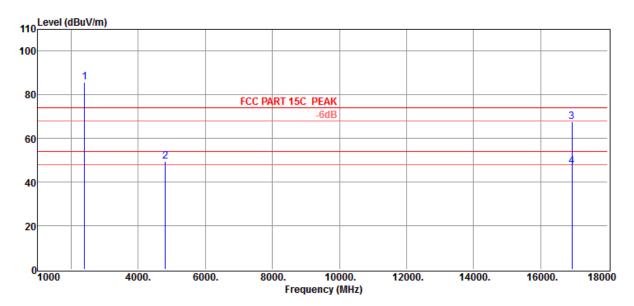
Power Supply: DC 3.7V from battery and DC 5V Test Mode : GFSK CH0 Tx Mode

from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

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	(dBµV/m)	(dBµV/m)	(dB)		
1	2402.00	91.42	29.99	43.84	8.35	85.92	74.00	11.92	Peak	VERTICAL
2	4804.00	46.42	35.40	44.38	12.07	49.51	74.00	-24.49	Peak	VERTICAL
3	16929.00	38.74	43.61	40.37	25.60	67.58	74.00	-6.42	Peak	VERTICAL
4	16929.00	18.56	43.61	40.37	25.60	47.40	54.00	-6.60	Average	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

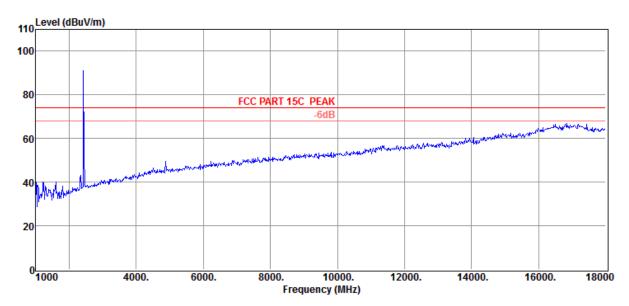
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH39 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Po Antenna/Distance : 2013 HF907/3m/VERTICAL

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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

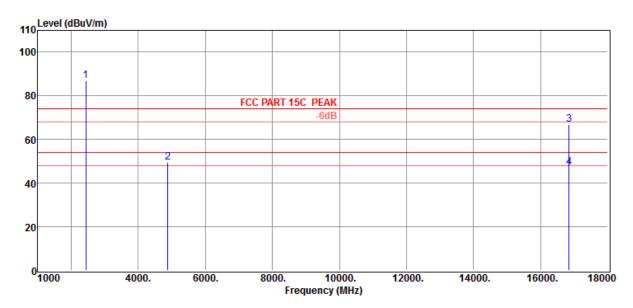
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH39 Tx Mode : GFSK CH39 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.3 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 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	(dBµV/m)	(dBµV/m)	(dB)		
1	2441.00	92.37	30.14	43.87	8.40	87.04	74.00	13.04	Peak	VERTICAL
2	4882.00	46.50	35.51	44.35	12.04	49.70	74.00	-24.30	Peak	VERTICAL
3	16844.00	37.87	43.63	40.34	25.60	66.76	74.00	-7.24	Peak	VERTICAL
4	16844.00	18.26	43.63	40.34	25.60	47.15	54.00	-6.85	Average	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

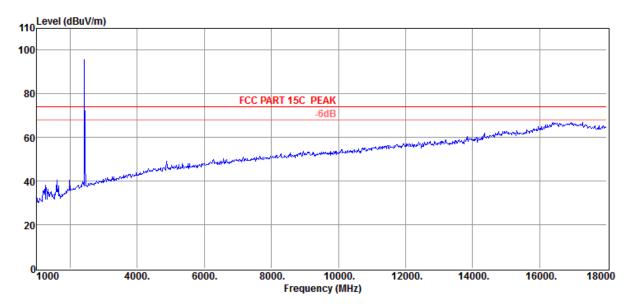
Power Supply: DC 3.7V from battery and DC 5V Test Mode : GFSK CH39 Tx Mode

from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 7



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

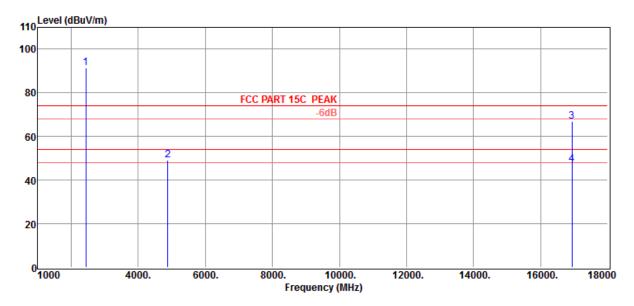
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH39 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition: Temp. 24.3 C, Flum: 33%, Press: 100.1k
Antenna/Distance: 2013 HF907/3m/HORIZONTAL

Memo :

Data: 8



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2441.00	96.97	30.14	43.87	8.40	91.64	74.00	17.64	Peak	HORIZONTAL
2	4882.00	45.79	35.51	44.35	12.04	48.99	74.00	-25.01	Peak	HORIZONTAL
3	16929.00	38.25	43.61	40.37	25.60	67.09	74.00	-6.91	Peak	HORIZONTAL
4	16929.00	18.23	43.61	40.37	25.60	47.07	54.00	-6.93	Average	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

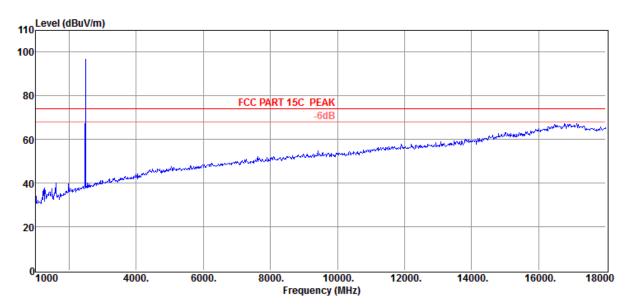
Power Supply: DC 3.7V from battery and DC 5V Test Mode : GFSK CH78 Tx Mode

from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 9



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

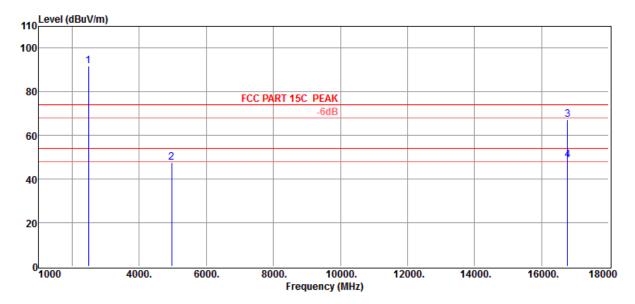
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH78 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Flum: 53%, Press: 100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 10



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2480.00	97.00	30.25	43.89	8.50	91.86	74.00	17.86	Peak	HORIZONTAL
2	4960.00	44.36	35.64	44.31	12.02	47.71	74.00	-26.29	Peak	HORIZONTAL
3	16776.00	38.89	43.64	40.31	25.00	67.22	74.00	-6.78	Peak	HORIZONTAL
4	16776.00	20.36	43.64	40.31	25.00	48.69	54.00	-5.31	Average	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

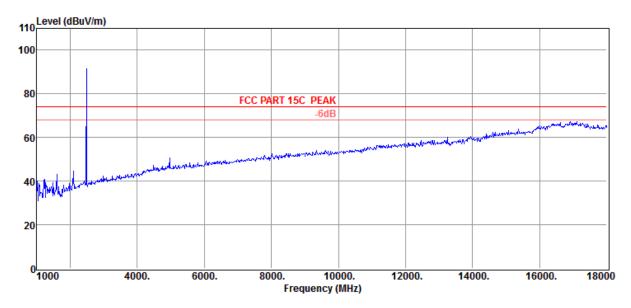
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH78 Tx Mode

ITOIII PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 11



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

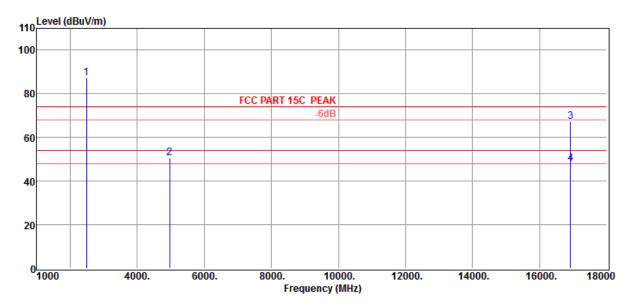
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH78 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 12



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2480.00	92.60	30.25	43.89	8.50	87.46	74.00	13.46	Peak	VERTICAL
2	4960.00	47.20	35.64	44.31	12.02	50.55	74.00	-23.45	Peak	VERTICAL
3	16912.00	38.54	43.62	40.36	25.60	67.40	74.00	-6.60	Peak	VERTICAL
4	16912.00	19.25	43.62	40.36	25.60	48.11	54.00	-5.89	Average	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply: DC 3.7V from battery and DC 5V

Test Mode : 8-DPSK CH0 Tx Mode

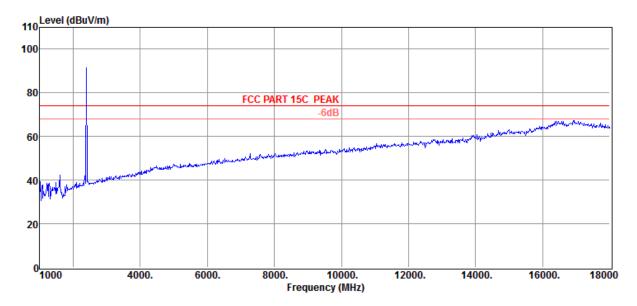
from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

1

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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply: DC 3.7V from battery and DC 5V

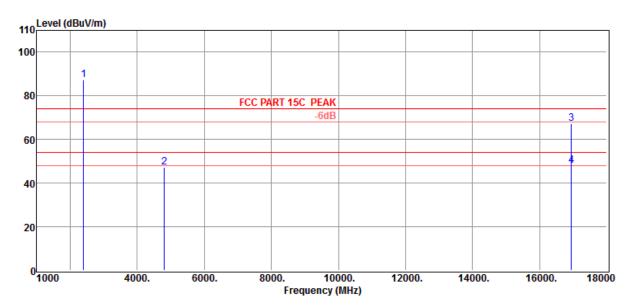
Test Mode : 8-DPSK CH0 Tx Mode

from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 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	(dBµV/m)	(dBµV/m)	(dB)		
1	2402.00	92.90	29.99	43.84	8.35	87.40	74.00	13.40	Peak	VERTICAL
2	4804.00	44.08	35.40	44.38	12.07	47.17	74.00	-26.83	Peak	VERTICAL
3	16946.00	38.59	43.61	40.38	25.60	67.42	74.00	-6.58	Peak	VERTICAL
4	16946.00	19.26	43.61	40.38	25.60	48.09	54.00	-5.91	Average	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply: DC 3.7V from battery and DC 5V

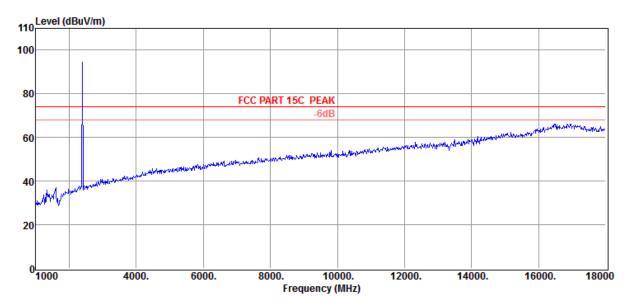
Test Mode : 8-DPSK CH0 Tx Mode

from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 15



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

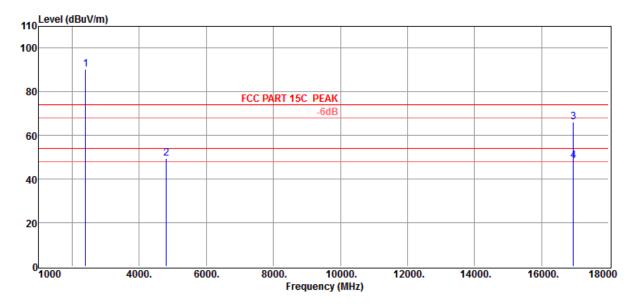
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK CH0 Tx Mode : 8-DPSK CH0 Tx Mode

T 24.53CH : 550/ B 10/

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 16



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2402.00	95.94	29.99	43.84	8.35	90.44	74.00	16.44	Peak	HORIZONTAL
2	4804.00	46.28	35.40	44.38	12.07	49.37	74.00	-24.63	Peak	HORIZONTAL
3	16946.00	37.44	43.61	40.38	25.60	66.27	74.00	-7.73	Peak	HORIZONTAL
4	16946.00	19.68	43.61	40.38	25.60	48.51	54.00	-5.49	Average	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

Test Date : 2013-06-21 **Tested By** : Leo

EUT : BT Speaker **Model Number** : Party Starter

DC 3.7V from battery and DC 5V **Power Supply**: **Test Mode** : 8-DPSK CH39 Tx Mode

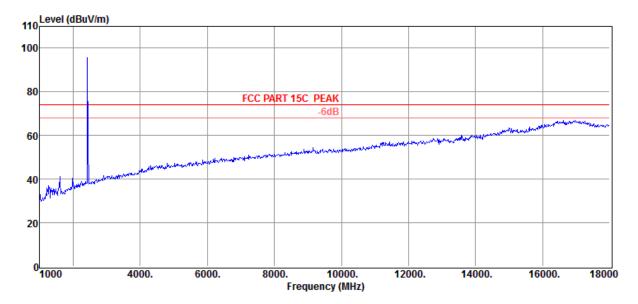
from PC

Temp:24.5'C,Humi:55%,Press:100.1k

Condition Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo

Data: 17



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply: DC 3.7V from battery and DC 5V

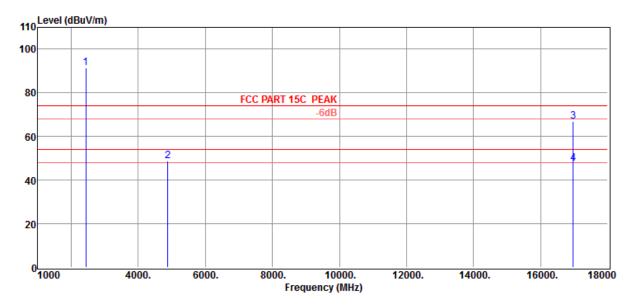
Test Mode : 8-DPSK CH39 Tx Mode

from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 18



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2441.00	96.97	30.14	43.87	8.40	91.64	74.00	17.64	Peak	HORIZONTAL
2	4882.00	45.51	35.51	44.35	12.04	48.71	74.00	-25.29	Peak	HORIZONTAL
3	16963.00	38.25	43.61	40.39	25.60	67.07	74.00	-6.93	Peak	HORIZONTAL
4	16963.00	18.98	43.61	40.39	25.60	47.80	54.00	-6.20	Average	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply: DC 3.7V from battery and DC 5V Test Mode : 8-DPSK CH39 Tx Mode

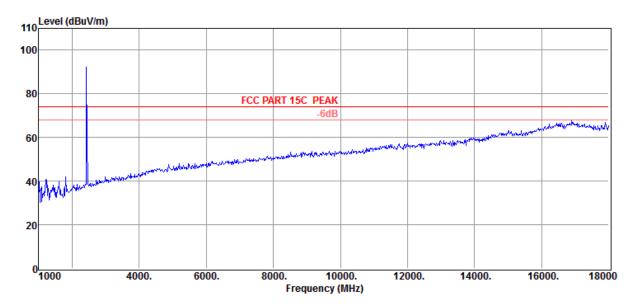
from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

.

Memo

Data: 19



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

Test Date : 2013-06-21 **Tested By** : Leo

EUT : BT Speaker **Model Number** : Party Starter

DC 3.7V from battery and DC 5V**Power Supply**: **Test Mode** : 8-DPSK CH39 Tx Mode

from PC

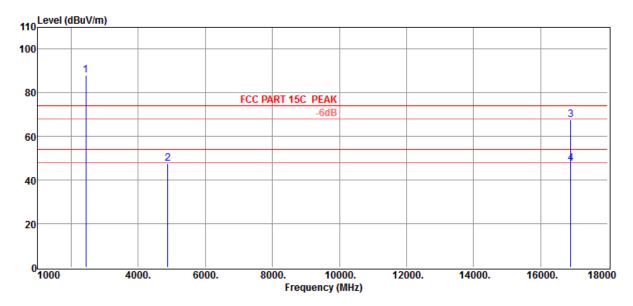
:

Temp:24.5'C,Humi:55%,Press:100.1k **Condition**

Antenna/Distance: 2013 HF907/3m/VERTICAL

Memo

Data: 20



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2441.00	93.52	30.14	43.87	8.40	88.19	74.00	14.19	Peak	VERTICAL
2	4882.00	44.52	35.51	44.35	12.04	47.72	74.00	-26.28	Peak	VERTICAL
3	16895.00	38.64	43.62	40.36	25.60	67.50	74.00	-6.50	Peak	VERTICAL
4	16895.00	18.65	43.62	40.36	25.60	47.51	54.00	-6.49	Average	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

Test Date : 2013-06-21 **Tested By** : Leo

EUT : BT Speaker **Model Number** : Party Starter

DC 3.7V from battery and DC 5V **Power Supply**: **Test Mode** : 8-DPSK CH78 Tx Mode

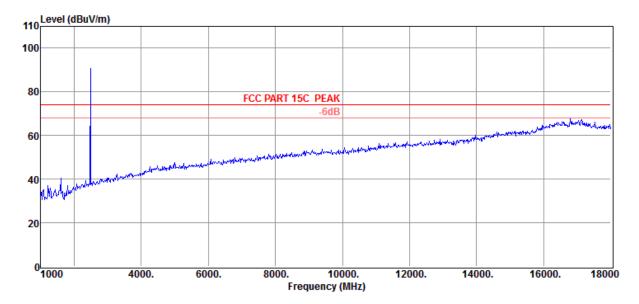
from PC

Temp:24.5'C,Humi:55%,Press:100.1k

Condition Antenna/Distance: 2013 HF907/3m/VERTICAL

Memo

Data: 21



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

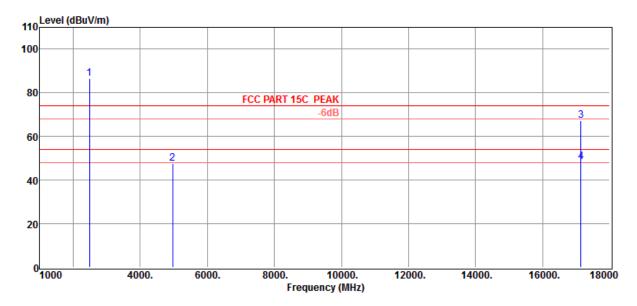
Power Supply: DC 3.7V from battery and DC 5V Test Mode : 8-DPSK CH78 Tx Mode

· from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 22



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2480.00	91.79	30.25	43.89	8.50	86.65	74.00	12.65	Peak	VERTICAL
2	4960.00	44.24	35.64	44.31	12.02	47.59	74.00	-26.41	Peak	VERTICAL
3	17133.00	38.70	43.39	40.46	25.47	67.10	74.00	-6.90	Peak	VERTICAL
4	17133.00	20.13	43.39	40.46	25.47	48.53	54.00	-5.47	Average	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply: DC 3.7V from battery and DC 5V

Test Mode : 8-DPSK CH78 Tx Mode

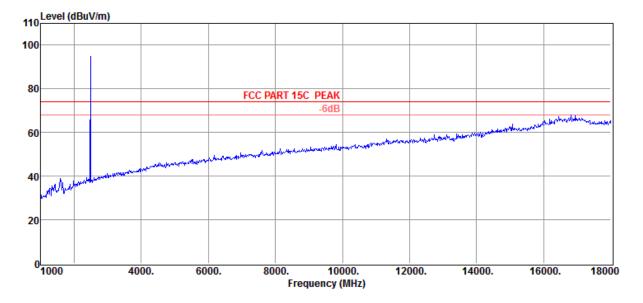
· from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

P P

Memo :

Data: 23



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	(dBµV/m)	(dBµV/m)	(dB)		

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

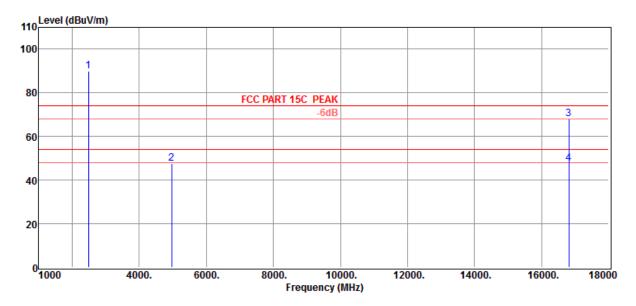
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK CH78 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition: Temp. 24.3 C, Flum: 33%, Press: 100.1k
Antenna/Distance: 2013 HF907/3m/HORIZONTAL

Memo :

Data: 24



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2480.00	95.01	30.25	43.89	8.50	89.87	74.00	15.87	Peak	HORIZONTAL
2	4960.00	44.44	35.64	44.31	12.02	47.79	74.00	-26.21	Peak	HORIZONTAL
3	16810.00	39.60	43.64	40.33	25.00	67.91	74.00	-6.09	Peak	HORIZONTAL
4	16810.00	19.27	43.64	40.33	25.00	47.58	54.00	-6.42	Average	HORIZONTAL

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

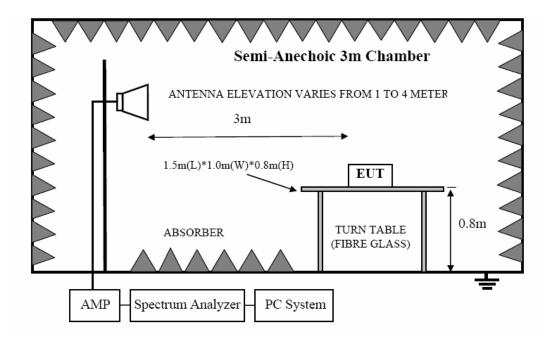
2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

9. Band Edge Compliance

9.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESU8	100316	2012/11/26	1 Year
2	Spectrum analyzer	R&S	FSU	1166.1660.26	2012/11/26	1 Year
3	Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	2012/11/26	1 Year
4	Double Ridged Horn Antenna	R&S	HF907	100276	2012/11/26	1 Year
5	Pre-Amplifier	R&S	SCU-01	10049	2012/11/26	1 Year
6	Pre-amplifier	A.H.	PAM0-0118	360	2012/11/26	1 Year
7	RF Cable	R&S	R01	10403	2012/11/26	1 Year
8	RF Cable	R&S	R02	10512	2012/11/26	1 Year

9.2. Block diagram of test setup



9.3. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz and 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

Report No: DDT-RE130144

9.4. Test Procedure

Same with clause 8.4 except change investigated frequency range from 2310 MHz to 2415 MHz and 2475 MHz to 2500 MHz.

Report No: DDT-RE130144

9.5. Test result

PASS. (See below detailed test result)

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

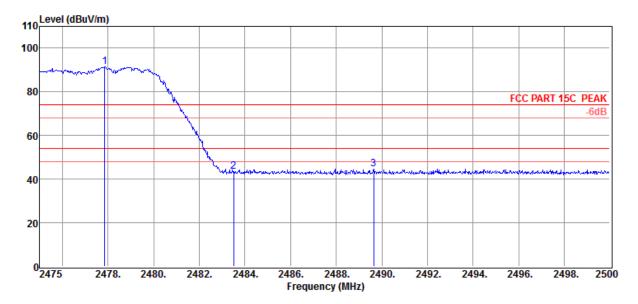
Power Supply: DC 3.7V from battery and DC 5V Test Mode : GFSK Hopping on

from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 25



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2477.85	96.48	30.25	43.89	8.50	91.34	74.00	17.34	Peak	HORIZONTAL
2	2483.50	48.66	30.25	43.89	8.50	43.52	74.00	-30.48	Peak	HORIZONTAL
3	2489.65	49.65	30.30	43.89	8.50	44.56	74.00	-29.44	Peak	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

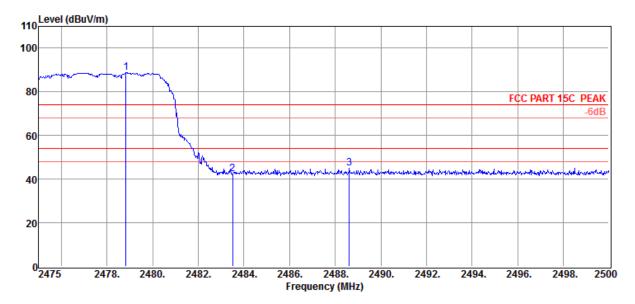
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK Hopping on

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 26



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2478.83	93.82	30.25	43.89	8.50	88.68	74.00	14.68	Peak	VERTICAL
2	2483.50	47.65	30.25	43.89	8.50	42.51	74.00	-31.49	Peak	VERTICAL
3	2488.63	50.17	30.30	43.89	8.50	45.08	74.00	-28.92	Peak	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

Test Date : 2013-06-21 **Tested By** : Leo

EUT : BT Speaker **Model Number** : Party Starter

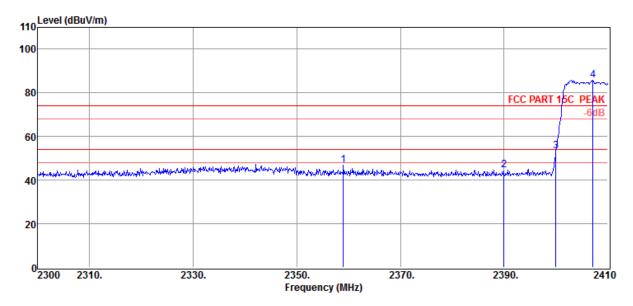
DC 3.7V from battery and DC 5V : GFSK Hopping on **Power Supply**: **Test Mode**

from PC

Temp:24.5'C,Humi:55%,Press:100.1k **Condition Antenna/Distance**: 2013 HF907/3m/VERTICAL

Memo

Data: 27



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2358.96	52.32	29.89	43.81	8.30	46.70	74.00	-27.30	Peak	VERTICAL
2	2390.00	50.14	29.99	43.84	8.35	44.64	74.00	-29.36	Peak	VERTICAL
3	2400.00	58.77	29.99	43.84	8.35	53.27	74.00	-20.73	Peak	VERTICAL
4	2407.14	91.23	30.04	43.85	8.35	85.77	74.00	11.77	Peak	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

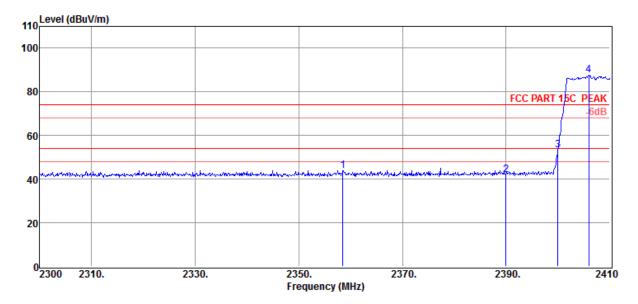
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK Hopping on

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluini: 55%, Press: 100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 28



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2358.52	49.67	29.89	43.81	8.25	44.00	74.00	-30.00	Peak	HORIZONTAL
2	2390.00	47.58	29.99	43.84	8.35	42.08	74.00	-31.92	Peak	HORIZONTAL
3	2400.00	58.78	29.99	43.84	8.35	53.28	74.00	-20.72	Peak	HORIZONTAL
4	2405.93	93.09	30.04	43.85	8.35	87.63	74.00	13.63	Peak	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

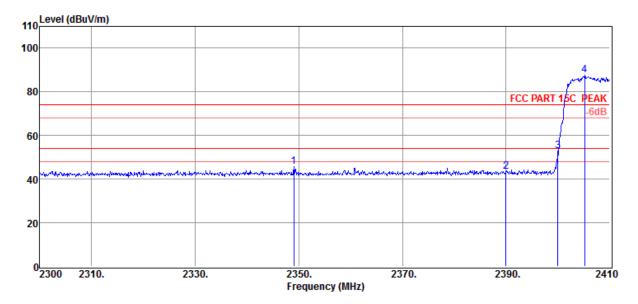
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK Hopping on

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluini: 55%, Press: 100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 29



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2349.06	51.60	29.83	43.81	8.25	45.87	74.00	-28.13	Peak	HORIZONTAL
2	2390.00	49.12	29.99	43.84	8.35	43.62	74.00	-30.38	Peak	HORIZONTAL
3	2400.00	58.38	29.99	43.84	8.35	52.88	74.00	-21.12	Peak	HORIZONTAL
4	2405.16	93.23	30.04	43.85	8.35	87.77	74.00	13.77	Peak	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

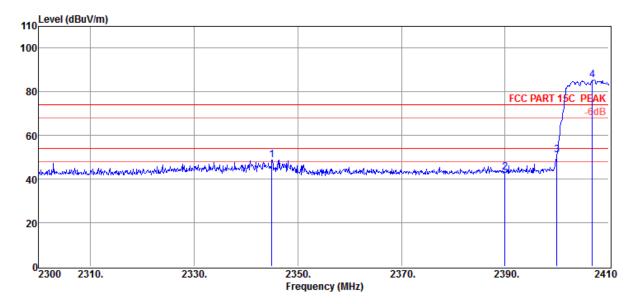
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK Hopping on

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 30



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2344.99	54.39	29.83	43.80	8.25	48.67	74.00	-25.33	Peak	VERTICAL
2	2390.00	48.56	29.99	43.84	8.35	43.06	74.00	-30.94	Peak	VERTICAL
3	2400.00	56.61	29.99	43.84	8.35	51.11	74.00	-22.89	Peak	VERTICAL
4	2406.81	91.04	30.04	43.85	8.35	85.58	74.00	11.58	Peak	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

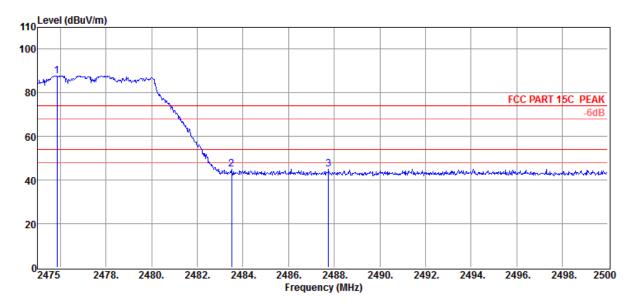
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK Hopping on

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 31



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2475.85	93.03	30.25	43.89	8.45	87.84	74.00	13.84	Peak	VERTICAL
2	2483.50	50.03	30.25	43.89	8.50	44.89	74.00	-29.11	Peak	VERTICAL
3	2487.75	50.10	30.30	43.89	8.50	45.01	74.00	-28.99	Peak	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

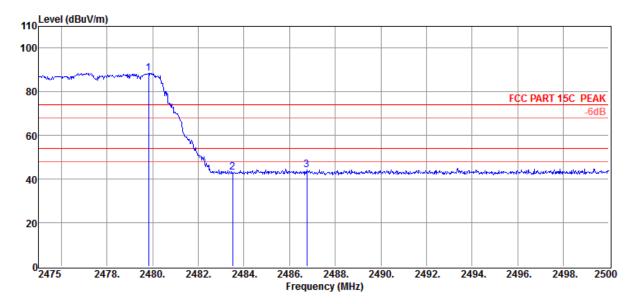
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK Hopping on

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluini: 55%, Press: 100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 32



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2479.83	93.61	30.25	43.89	8.50	88.47	74.00	14.47	Peak	HORIZONTAL
2	2483.50	48.07	30.25	43.89	8.50	42.93	74.00	-31.07	Peak	HORIZONTAL
3	2486.75	49.36	30.25	43.89	8.50	44.22	74.00	-29.78	Peak	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

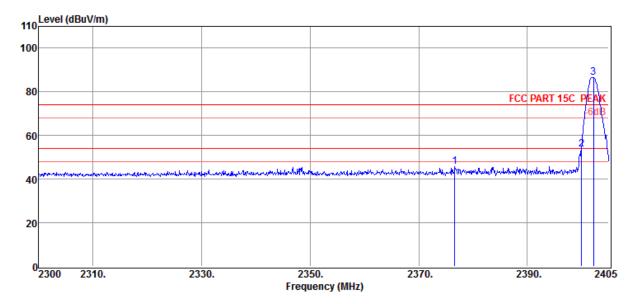
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH0 Tx Mode : GFSK CH0 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.3 C, Humi: 35%, Press: 100.1k
Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 33



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2376.65	51.22	29.94	43.83	8.30	45.63	74.00	-28.37	Peak	HORIZONTAL
2	2400.00	59.12	29.99	43.84	8.35	53.62	74.00	-20.38	Peak	HORIZONTAL
3	2402.17	92.13	29.99	43.84	8.35	86.63	74.00	12.63	Peak	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

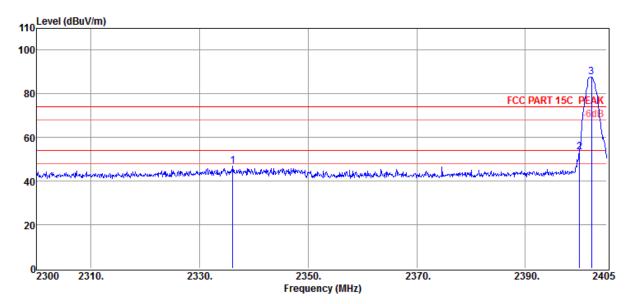
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH0 Tx Mode : GFSK CH0 Tx Mode

Condition Temp:24.5'C, Humi:55%, Press:100.1k

Condition : Temp: 24.5 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 34



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2336.12	52.78	29.83	43.80	8.25	47.06	74.00	-26.94	Peak	VERTICAL
2	2400.00	58.81	29.99	43.84	8.35	53.31	74.00	-20.69	Peak	VERTICAL
3	2402.17	93.31	29.99	43.84	8.35	87.81	74.00	13.81	Peak	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

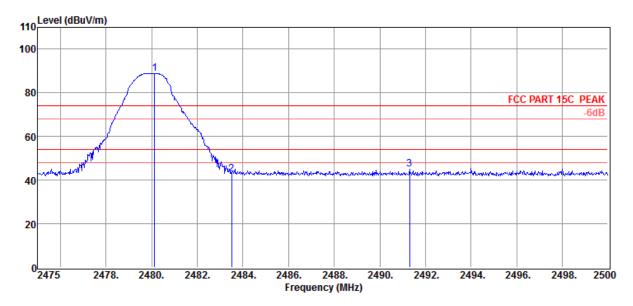
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH78 Tx Mode

Temp:24.5'C, Humi:55%, Press:100.1k

Condition : Temp: 24.5 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 35



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2480.13	94.13	30.25	43.89	8.50	88.99	74.00	14.99	Peak	VERTICAL
2	2483.50	47.77	30.25	43.89	8.50	42.63	74.00	-31.37	Peak	VERTICAL
3	2491.30	50.21	30.30	43.89	8.50	45.12	74.00	-28.88	Peak	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

Test Date : 2013-06-21 Tested By : Leo

EUT : BT Speaker Model Number : Party Starter

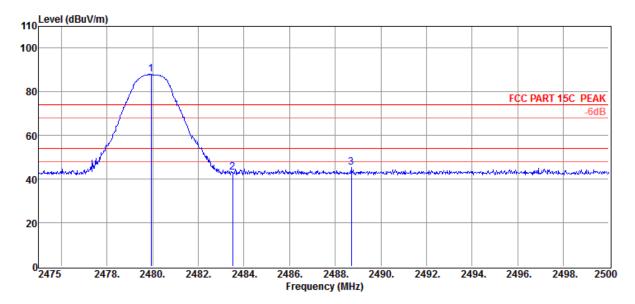
Power Supply: DC 3.7V from battery and DC 5V from PC : GFSK CH78 Tx Mode

Temp:24.5'C, Humi:55%, Press:100.1k

Condition : Temp: 24.5 C, Fluini: 55%, Press: 100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 36



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	(dBμV/m)	(dBμV/m)	(dB)		
1	2479.93	93.06	30.25	43.89	8.50	87.92	74.00	13.92	Peak	HORIZONTAL
2	2483.50	48.05	30.25	43.89	8.50	42.91	74.00	-31.09	Peak	HORIZONTAL
3	2488.70	50.34	30.30	43.89	8.50	45.25	74.00	-28.75	Peak	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

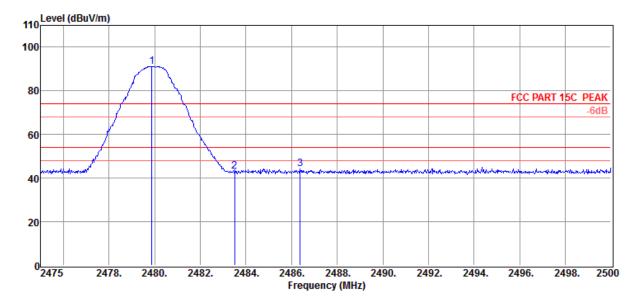
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK CH78 Tx Mode

Temp:24.5°C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluini: 55%, Press: 100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 37



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2479.88	96.30	30.25	43.89	8.50	91.16	74.00	17.16	Peak	HORIZONTAL
2	2483.50	48.11	30.25	43.89	8.50	42.97	74.00	-31.03	Peak	HORIZONTAL
3	2486.38	49.24	30.25	43.89	8.50	44.10	74.00	-29.90	Peak	HORIZONTAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

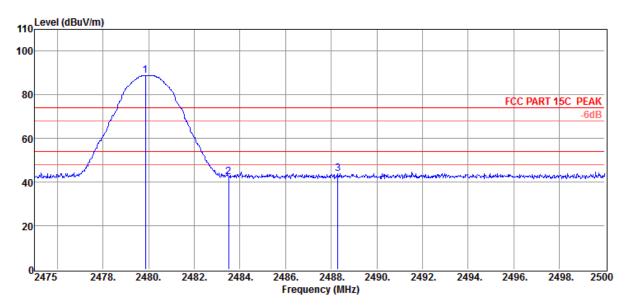
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK CH78 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 38



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2479.85	94.06	30.25	43.89	8.50	88.92	74.00	14.92	Peak	VERTICAL
2	2483.50	47.59	30.25	43.89	8.50	42.45	74.00	-31.55	Peak	VERTICAL
3	2488.30	49.06	30.30	43.89	8.50	43.97	74.00	-30.03	Peak	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

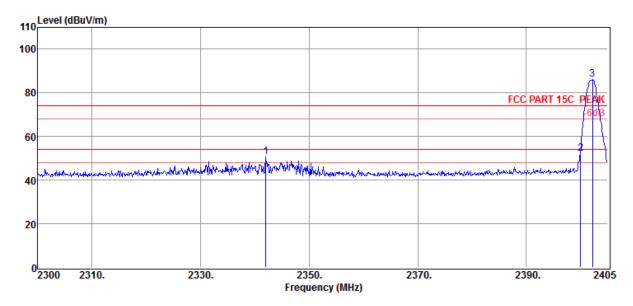
Power Supply: DC 3.7V from battery and DC 5V from PC : 8-DPSK CH0 Tx Mode : 8-DPSK CH0 Tx Mode

Temp:24.5'C,Humi:55%,Press:100.1k

Condition : Temp: 24.5 C, Fluim: 55%, Pless: 100.1k Antenna/Distance : 2013 HF907/3m/VERTICAL

Memo :

Data: 39



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2342.00	56.27	29.83	43.80	8.25	50.55	74.00	-23.45	Peak	VERTICAL
2	2400.00	57.60	29.99	43.84	8.35	52.10	74.00	-21.90	Peak	VERTICAL
3	2402.17	91.57	29.99	43.84	8.35	86.07	74.00	12.07	Peak	VERTICAL

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

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

Report No: DDT-RE130144

Test Site : DDT 3m Chamber E:\2013 Report data\13QE0039\RF-RE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply: DC 3.7V from battery and DC 5V

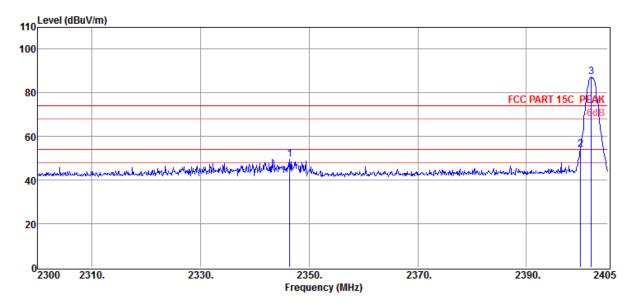
Test Mode : 8-DPSK CH0 Tx Mode

from PC

Condition : Temp:24.5'C,Humi:55%,Press:100.1k Antenna/Distance : 2013 HF907/3m/HORIZONTAL

Memo :

Data: 40



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	(dBµV/m)	(dBµV/m)	(dB)		
1	2346.41	55.27	29.83	43.80	8.25	49.55	74.00	-24.45	Peak	HORIZONTAL
2	2400.00	59.72	29.99	43.84	8.35	54.22	74.00	-19.78	Peak	HORIZONTAL
3	2401.96	92.67	29.99	43.84	8.35	87.17	74.00	13.17	Peak	HORIZONTAL

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

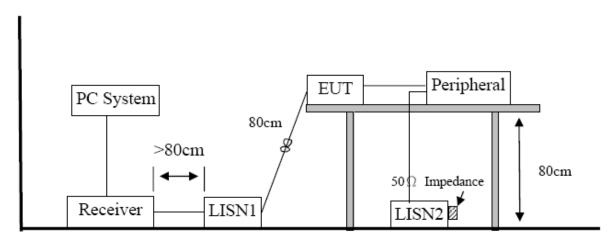
2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

10. Power Line Conducted Emission

10.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
. 1	Test Receiver	R&S	ESU8	100316	2012/11/26	1 Year
. 2	LISN 1	R&S	ENV216	101109	2012/11/26	1 Year
. 3	LISN 2	R&S	ESH2-Z5	100309	2012/11/26	1 Year
. 4	Pulse Limiter	R&S	ESH3-Z2	101242	2012/11/26	1 Year

10.2. Block diagram of test setup



10.3. 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.

10.4. 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 C63.4.

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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.

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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.

10.5. Test Result

PASS. (See below detailed test result)

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

Note2: "----" means average detection; "----" mans peak detection

Conducted Emission Test Result

Test Mode

Test Site : DDT 1# Shield Room E:\2013 report data\13QE0039\13QE0039CE.EM6

EUT : BT Speaker Model Number : Party Starter

Power Supply : DC 3.7V from battery and DC 5V

from PC

Condition Temp:24.5'C,Humi:55%,

Press:100.1kPa

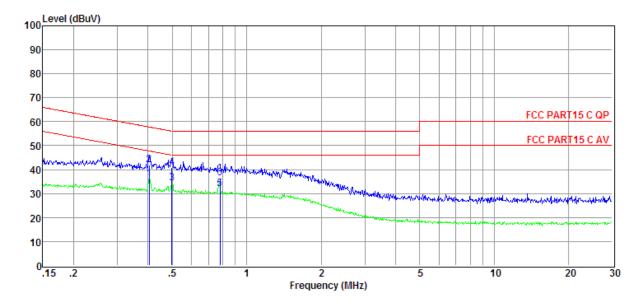
LISN : 2012 ENV216/NEUTRAL

: Tx mode

Report No: DDT-RE130144

Memo :

Data: 2



Item	Freq	Read	LISN	Cable	Pulse	Result	Limit	Over	Detector	Phase
		Level	Factor	Loss	Limiter	Level	Line	Limit		
					Factor					
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.40	16.43	9.67	0.04	9.89	36.03	47.77	-11.74	Average	NEUTRAL
2	0.40	22.43	9.67	0.04	9.89	42.03	57.77	-15.74	QP	NEUTRAL
3	0.50	14.89	9.68	0.04	9.89	34.50	46.01	-11.51	Average	NEUTRAL
4	0.50	21.20	9.68	0.04	9.89	40.81	56.01	-15.20	QP	NEUTRAL
5	0.78	12.34	9.66	0.05	9.88	31.93	46.00	-14.07	Average	NEUTRAL
6	0.78	16.96	9.66	0.05	9.88	36.55	56.00	-19.45	QP	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss

- 2. If QP Result comply with AV limit, AV Result is deemed to comply with AV limit
- 3. Test setup: RBW: 200Hz(9kHz—150kHz), 9kHz(150kHz—30MHz), Step size:4kHz, Scan time: auto

Conducted Emission Test Result

Test Mode

Test Site : DDT 1# Shield Room E:\2013 report data\13QE0039\13QE0039CE.EM6

Test Date : 2013-06-24 Tested By : Leo

EUT : BT Speaker Model Number : Party Starter

Power Supply : DC 3.7V from battery and DC 5V

from PC

Condition Temp:24.5'C,Humi:55%,

Press:100.1kPa

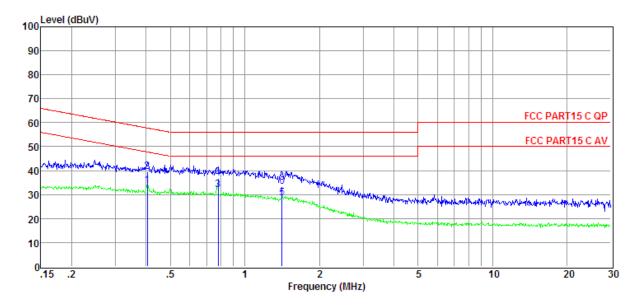
LISN : 2012 ENV216/LINE

: Tx mode

Report No: DDT-RE130144

Memo :

Data: 4



Item	Freq	Read	LISN	Cable	Pulse	Result	Limit	Over	Detector	Phase
		Level	Factor	Loss	Limiter	Level	Line	Limit		
					Factor					
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.40	14.21	9.64	0.04	9.89	33.78	47.77	-13.99	Average	LINE
2	0.40	19.90	9.64	0.04	9.89	39.47	57.77	-18.30	QP	LINE
3	0.78	12.28	9.69	0.05	9.88	31.90	46.00	-14.10	Average	LINE
4	0.78	17.06	9.69	0.05	9.88	36.68	56.00	-19.32	QP	LINE
5	1.41	8.93	9.71	0.05	9.89	28.58	46.00	-17.42	Average	LINE
6	1.41	13.81	9.71	0.05	9.89	33.46	56.00	-22.54	QP	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss

- 2. If QP Result comply with AV limit, AV Result is deemed to comply with AV limit
- 3. Test setup: RBW: 200Hz(9kHz—150kHz), 9kHz(150kHz—30MHz), Step size:4kHz, Scan time: auto

11. Antenna Requirements

11.1. 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 gain greater 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-RE130144

11.2. Result

The antennas used for this product are built-in PCB "F" Shape antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 0dBi.

END OF REPORT