FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

E-CORE TECHNOLOGY (CHINA) CO.,LTD

Baby bluetooth speaker

Model Number: HT2009

Additional Model: HL2015A;HL2003A

FCC ID: OJR-HT2009

Prepared for : E-CORE TECHNOLOGY (CHINA) CO.,LTD
3rd Building, Weidonglong Industry, Heping East Road, LongHua, Shenzhen, China

Prepared By : EST Technology Co., Ltd.
Santun(guantai Road), Houjie Town,
DongGuan City,GuangDong, China.
Tel: 86-769-83081888-808

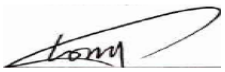
Report Number: ESTE-R1206013
Date of Test : June 19,2012 ~ June 25,2012
Date of Report : June 28,2012

TABLE OF CONTENTS

Description Page

Test Report Verification

Applicant: **Address:**	E-CORE TECHNOLOGY (CHINA) CO.,LTD 3rd Building, Weidonglong Industry, Heping East Road, LongHua, Shenzhen, China		
Manufacturer: **Address:**	E-CORE TECHNOLOGY (CHINA) CO.,LTD 3rd Building, Weidonglong Industry, Heping East Road, LongHua, Shenzhen, China		
E.U.T:	Baby bluetooth speaker		
Model Number:	HT2009 Additional Model:HL2015A Note: The products are difference in model number and appearance only.		
Power Supply:	DC 3.7V		
Test Voltage:	DC 3.7V		
Trade Name:	------	Serial No.:	------
Date of Receipt:	June 10,2012	Date of Test:	June 19 ~ June 25,2012
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2011 ANSI C63.4:2003		
Test Result:	The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the ETSI EN FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: June 28,2012		

Prepared by:	Tested by:	Approved by:
		
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager

Other Aspects:
None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Baby bluetooth speaker
Model Number	:	HT2009
FCC ID	:	OJR-HT2009
Operation frequency	:	2402MHz~2480MHz
Number of channel	:	79
Antenna	:	Integrated PCB antenna, 0 dBi gain
Modulation	:	FHSS (GFSK, π/4-DQPSK, 8-DPSK)
Power Supply	:	DC 3.7V
Applicant	:	E-CORE TECHNOLOGY (CHINA) CO.,LTD 3rd Building, Weidonglong Industry, Heping East Road, LongHua, Shenzhen, China
Manufacturer	:	E-CORE TECHNOLOGY (CHINA) CO.,LTD 3rd Building, Weidonglong Industry, Heping East Road, LongHua, Shenzhen, China
Sample Type	:	Prototype production

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
20dB Bandwidth	FCC Part 15: 15.215 DA 00-705	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4: 2003 DA 00-705	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) DA 00-705	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4: 2003 DA 00-705	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA
Registration No.: L5288
Date of registration: October 28, 2011

Certificated by FCC, USA
Registration No.: 989591
Date of registration: December 07, 2010

Certificated by Industry Canada
Registration No.: 46405-9405
Date of registration: December 16, 2010

Certificated by VCCI, Japan
Registration No.: R-3663 & C-4103
Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany
Registration No.: UA 50195514 0001
Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L1-18
Date of registration: April 28, 2011

Certificated by Siemic, Inc.
Registration No.: SLCN021
Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China

2.3. Assistant equipment used for test

N/A

2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground.EUT was be set into BT test mode by Bluesuite software before test.

2.5. Test mode

The test software "Bluesuite" was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Mode	Channel	Frequency
GFSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz
π/4-DQPSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz
8-DPSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz

2.6. Test Equipment

2.6.1. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	Mar,19,12	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	Mar,19,12	1 Year
Bilog Antenna	Teseq	CBL 6111D	25872	June.08,11	1 .5Year
Signal Amplifier	Agilent	310N	187037	Aug,25,11	1 Year

2.6.2. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Temperature controller	Terchy	MHQ	120	May.08,12	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	May.08,12	1 Year
Vector Signal Generator	R&S	SMBV100A	1407.6004K02	May.08,12	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Jan.16.11	2 Year
Double Ridged Horn Antenna	R&S	HF907	100268	Jan.16.11	2 Year
Log-periodic Dipole Antenna	R&S	HL223	100435	Jan.16.11	2 Year
Biconical Antenna	R&S	HK116	100431	Jan.16.11	2 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-462	Jan.16.11	2 Year
Pre-amplifer	AH	PAM-0118	10008	May.08,12	1 Year
Pre-amplifer	R&S	SCU-01	10049	May.08,12	1 Year
High Pass filter	Micro	HPM50111	324455	May.08,12	1 Year
RF Cable	Hubersuhner	W10.02	534096	May.08,12	1 Year
RF Cable	Hubersuhner	W10.02	534123	May.08,12	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	May.08,12	1 Year
RF Cable	Hubersuhner	RG 214/U	523455	May.08,12	1 Year

3. MAXIMUM PEAK OUTPUT POWER

3.1. Limit

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

3.2. Test Procedure

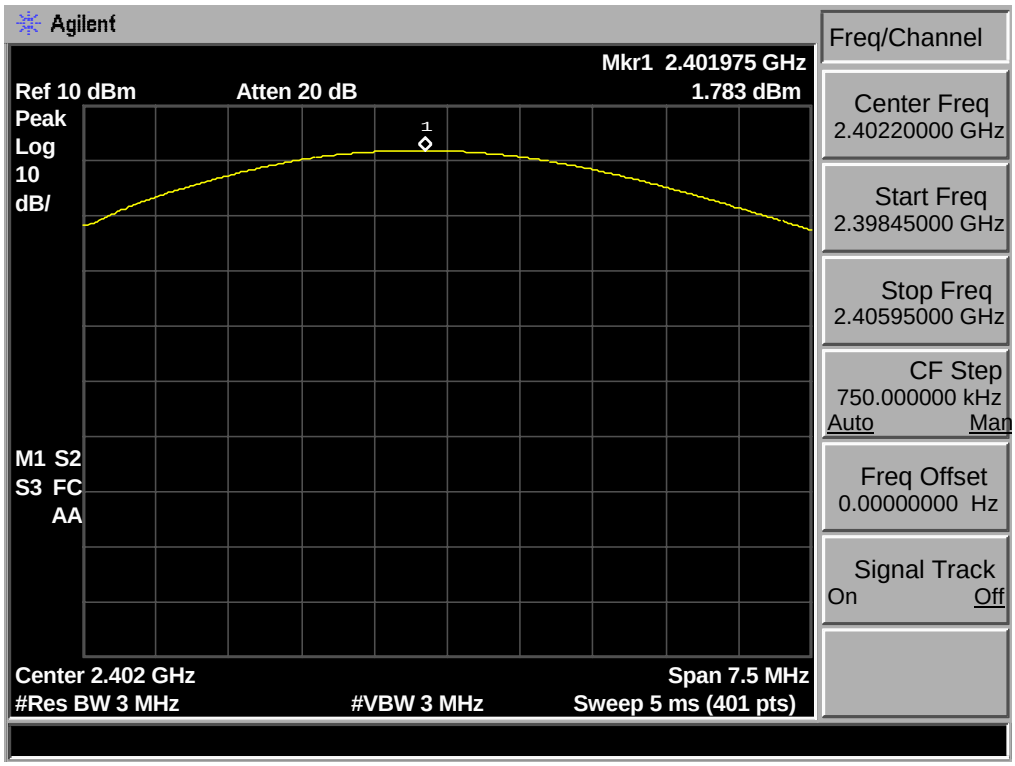
The transmitter output (antenna port) was connected to the spectrum analyzer

3.3. Test Result

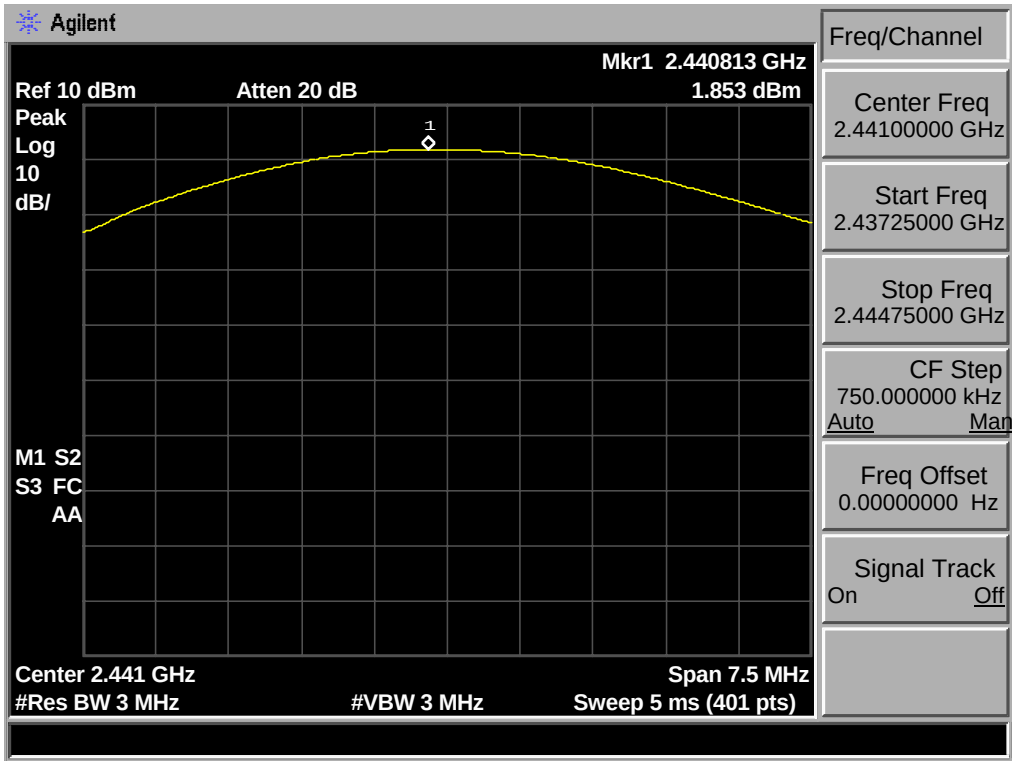
EUT: Baby bluetooth spaeker M/N:HT2009					
Test date: 2012-6-20		Test site: RF site	Tested by: Tony Tang		
Mode	Freq (MHz)	Result (dBm)	Limit		Margin (dB)
			dBm	W	
GFSK	2402	1.783	21.00	0.125	19.217
	2441	1.853	21.00	0.125	19.147
	2480	2.763	21.00	0.125	18.237
π/4-DQPSK	2402	1.179	21.00	0.125	19.821
	2441	1.030	21.00	0.125	19.970
	2480	1.721	21.00	0.125	19.279
8-DPSK	2402	1.280	21.00	0.125	19.720
	2441	1.211	21.00	0.125	19.789
	2480	1.980	21.00	0.125	19.020
Conclusion: PASS					

3.4. Test Data

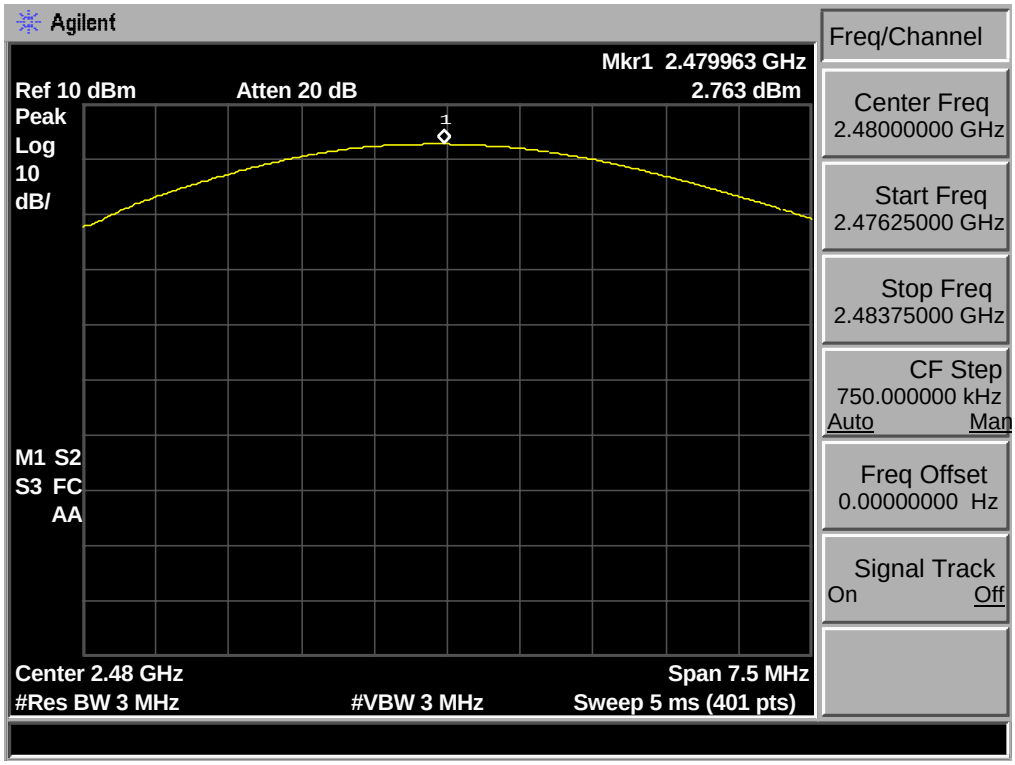
GFSK 2402 MHz



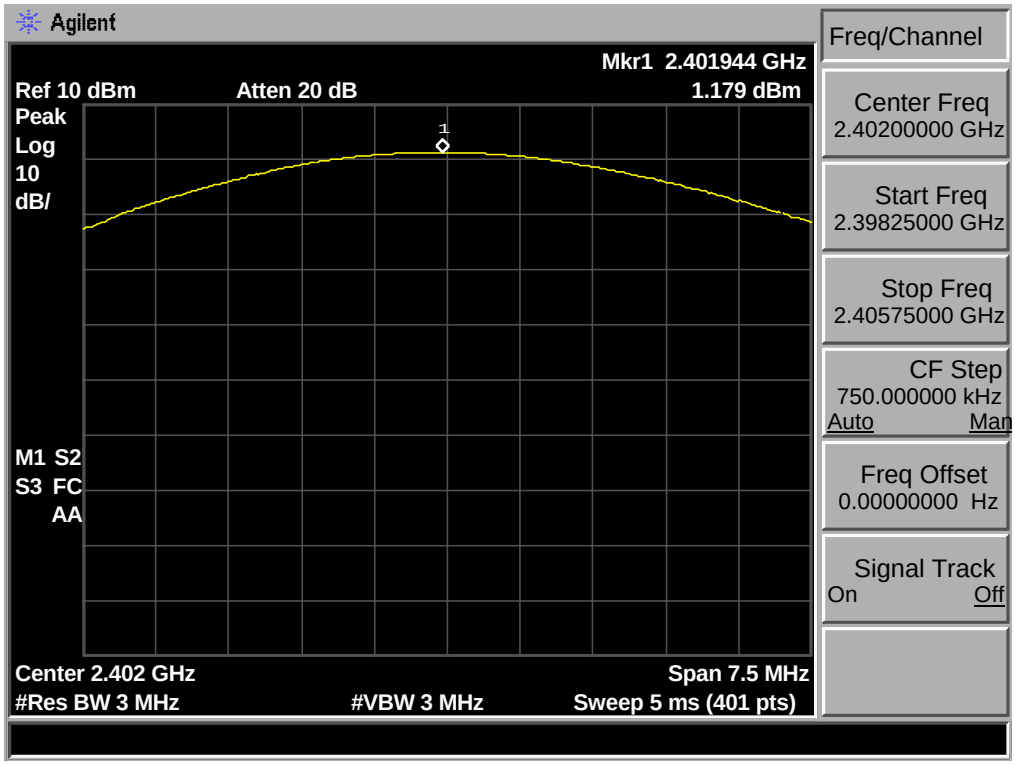
GFSK 2441 MHz



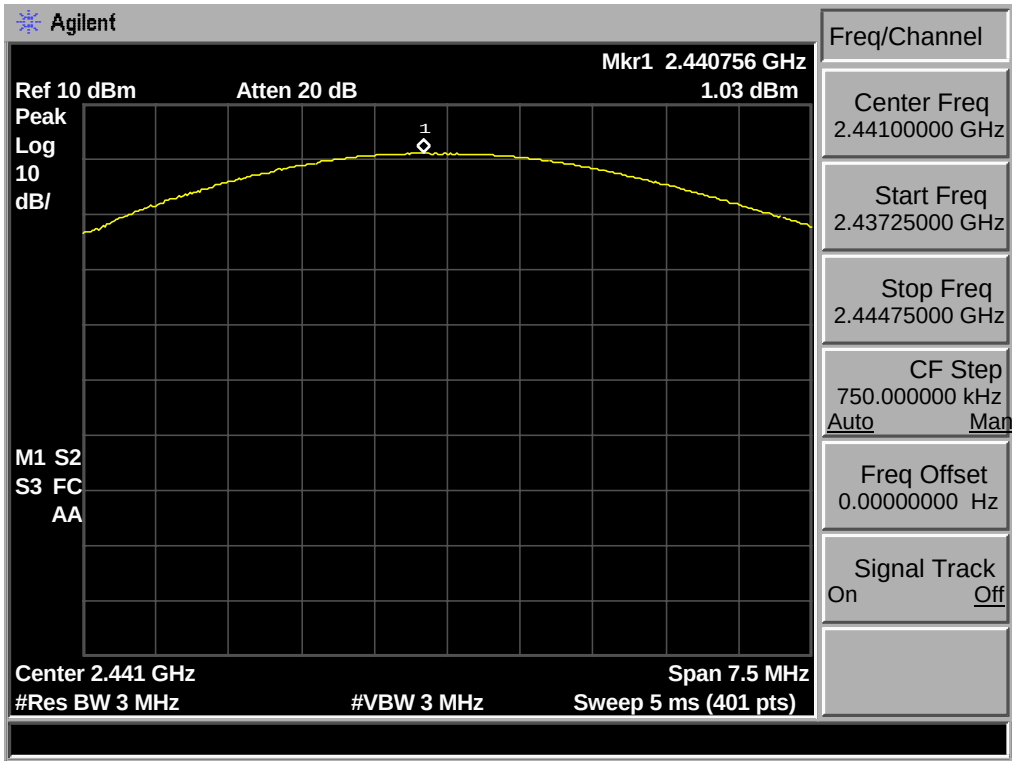
GFSK 2480 MHz



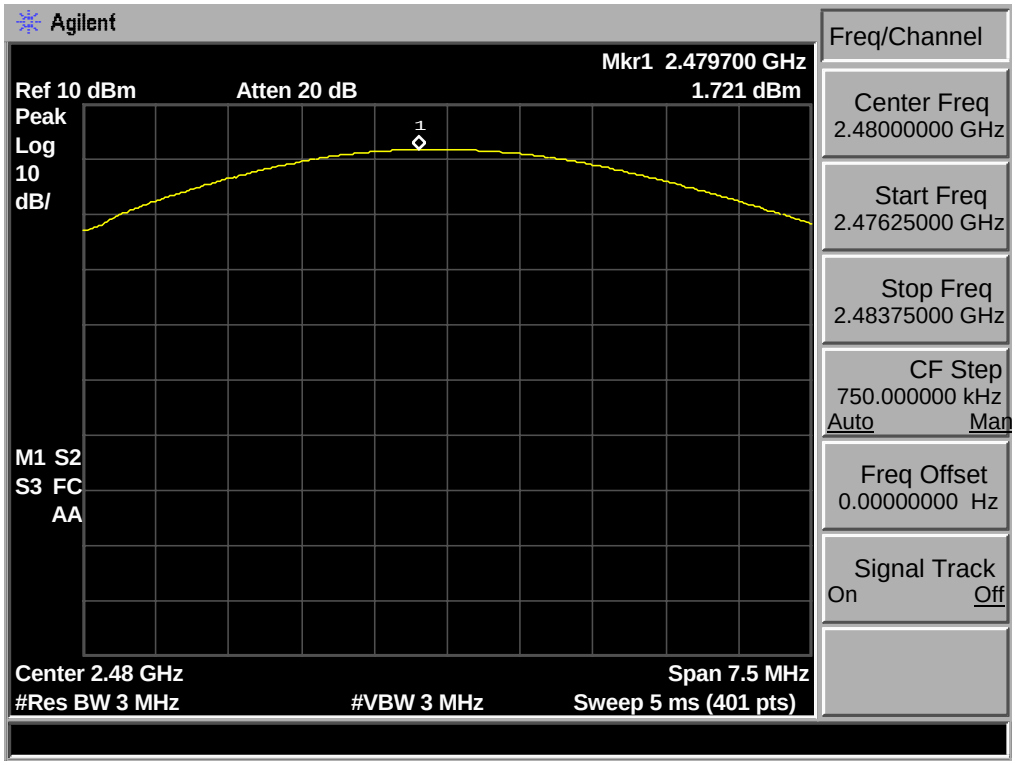
π/4-DQPSK 2402MHz



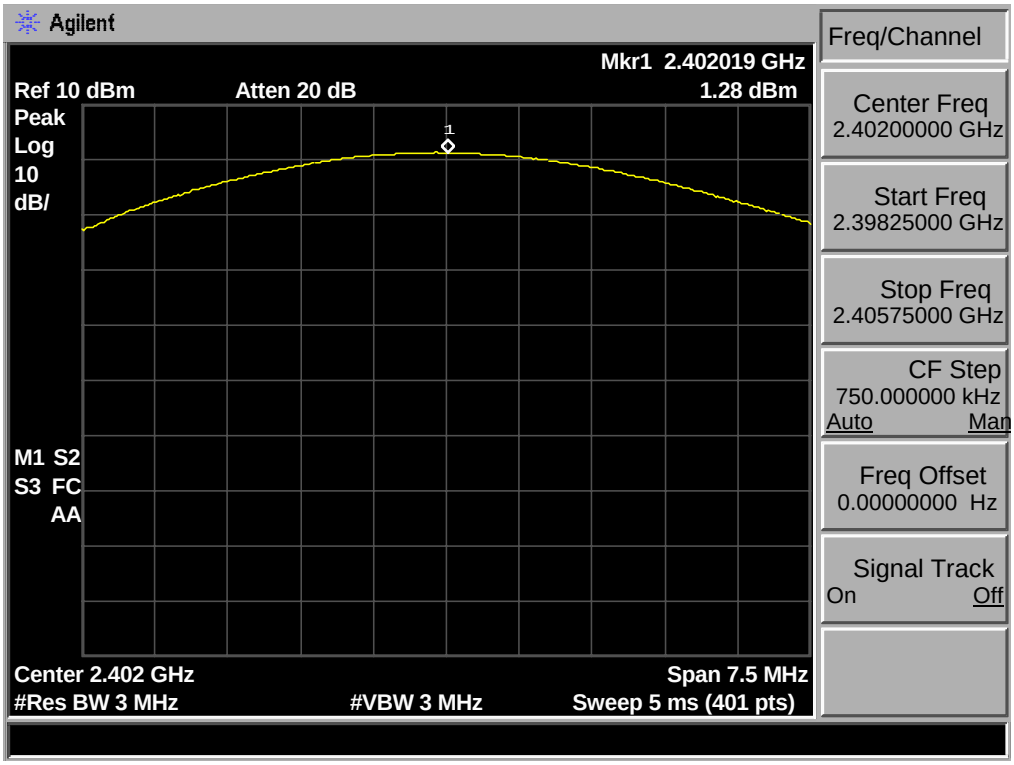
π/4-DQPSK 2441MHz



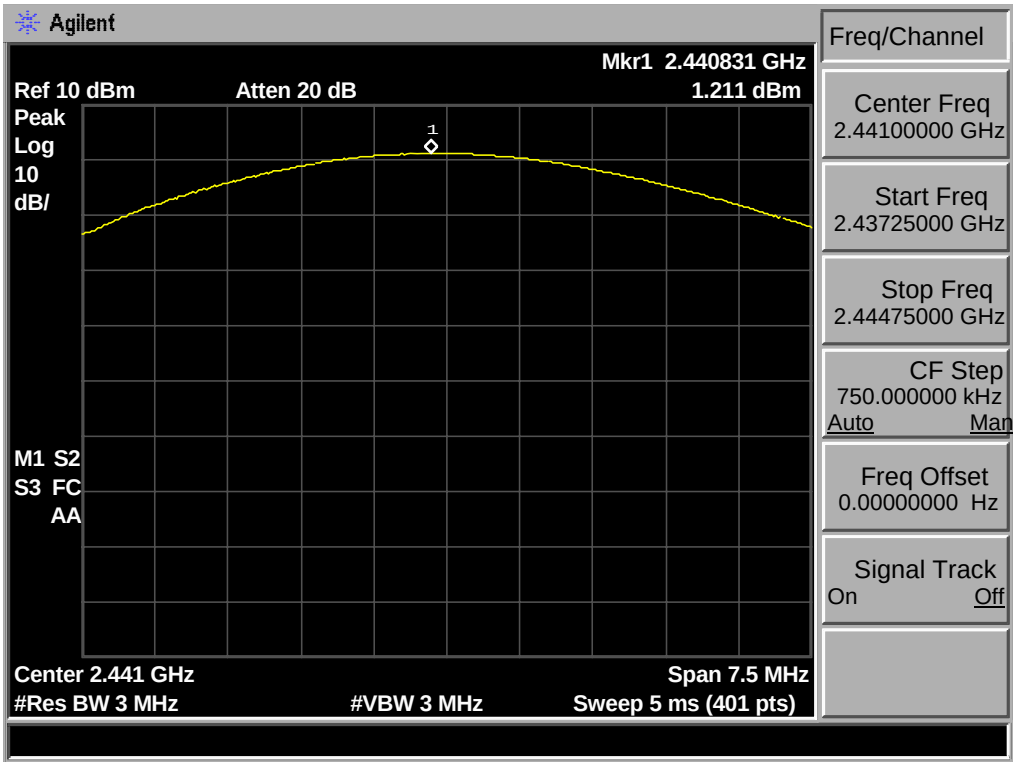
π/4-DQPSK 2480MHz



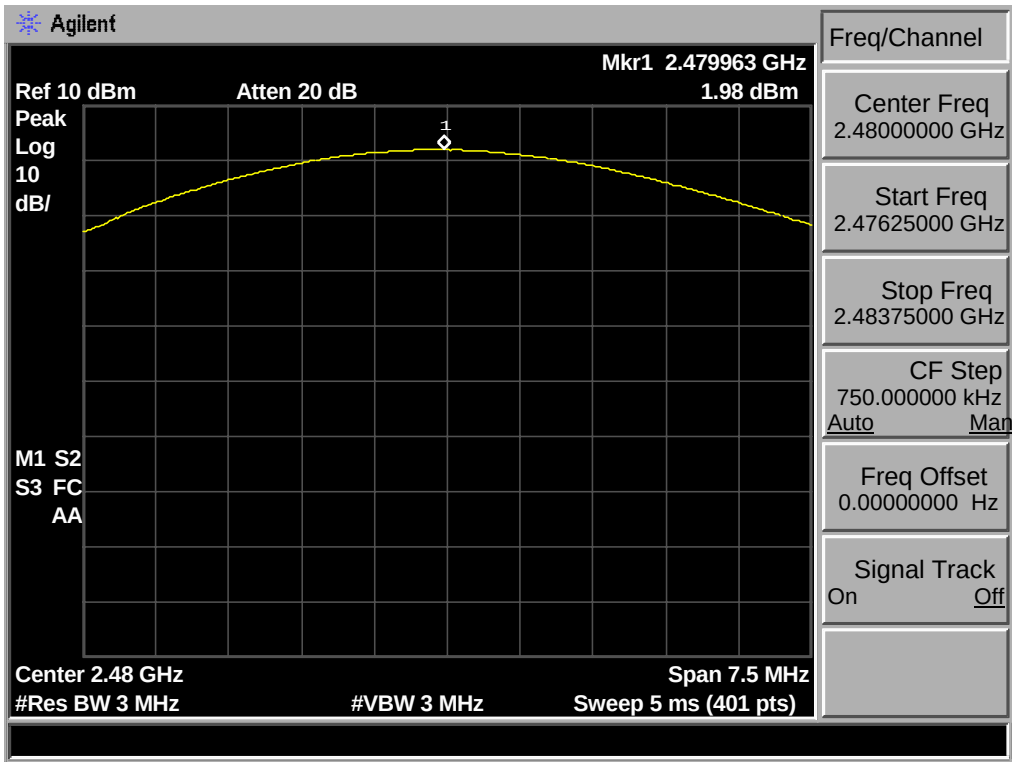
8-DPSK 2402MHz



8-DPSK 2441MHz



8-DPSK 2480MHz



4. 20 DB BANDWIDTH

4.1. Limit

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.

4.2. Test Procedure

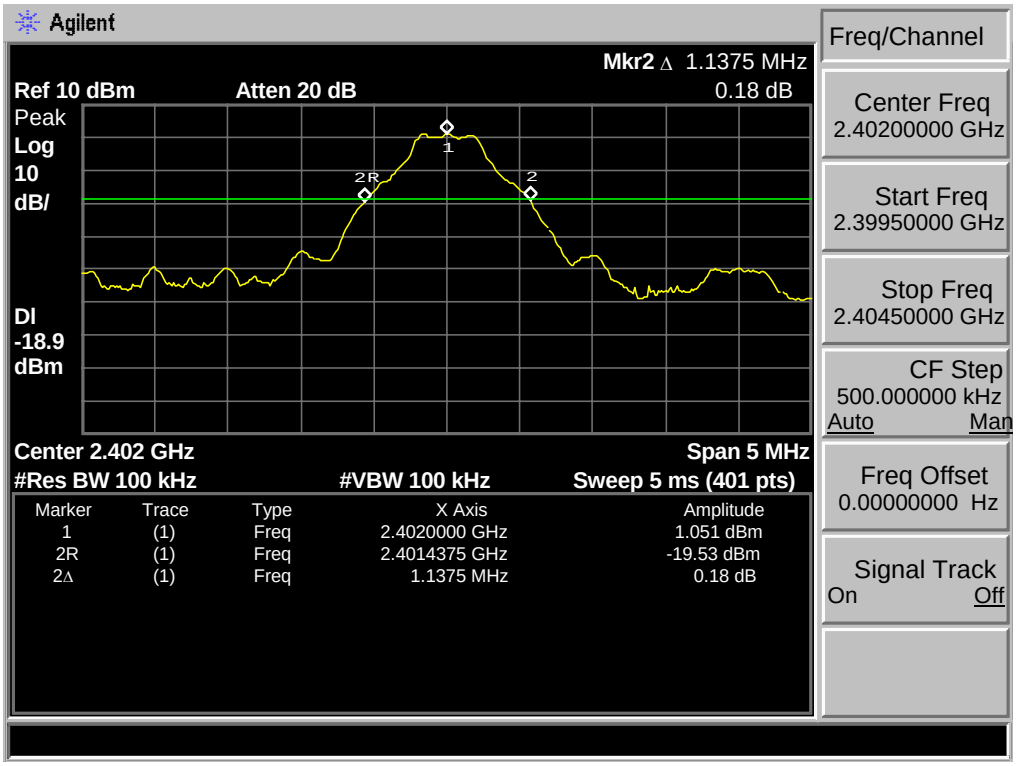
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

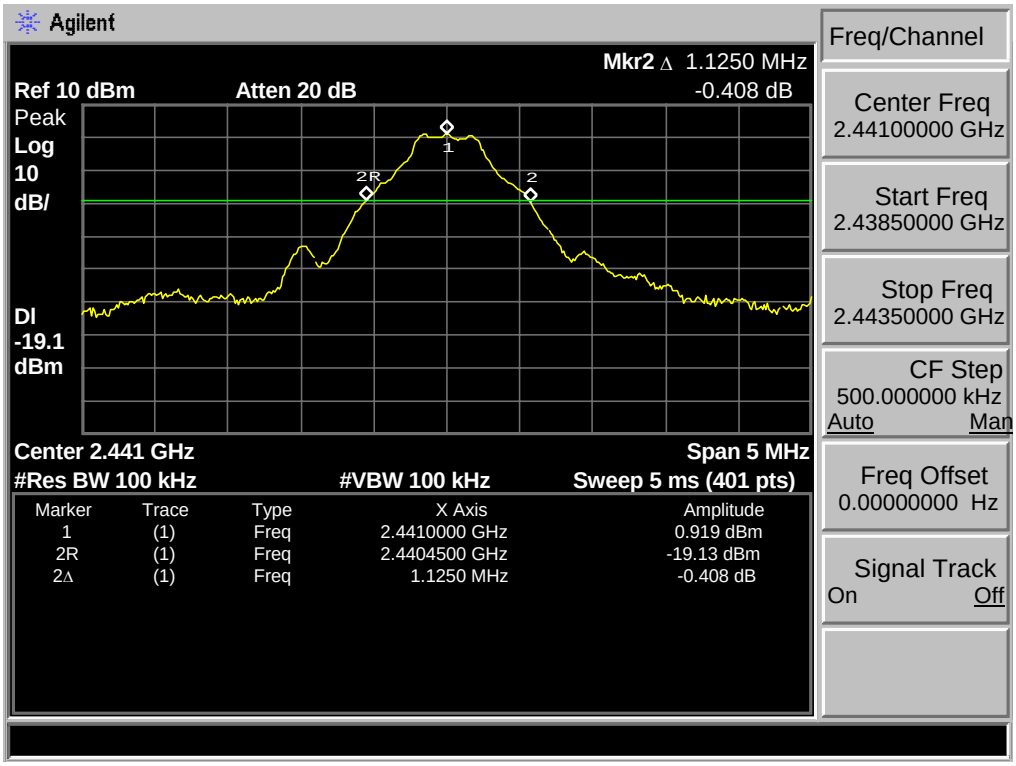
EUT: Baby bluetooth spaeker M/N:HT2009				
Test date: 2012-6-20		Test site: RF site		Tested by: Tony Tang
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
GFSK	2402	1.1375	/	PASS
	2441	1.1250	/	PASS
	2480	1.1125	/	PASS
π/4-DQPSK	2402	1.4375	/	PASS
	2441	1.4250	/	PASS
	2480	1.4125	/	PASS
8-DPSK	2402	1.4500	/	PASS
	2441	1.4500	/	PASS
	2480	1.4250	/	PASS

4.4. Test Data

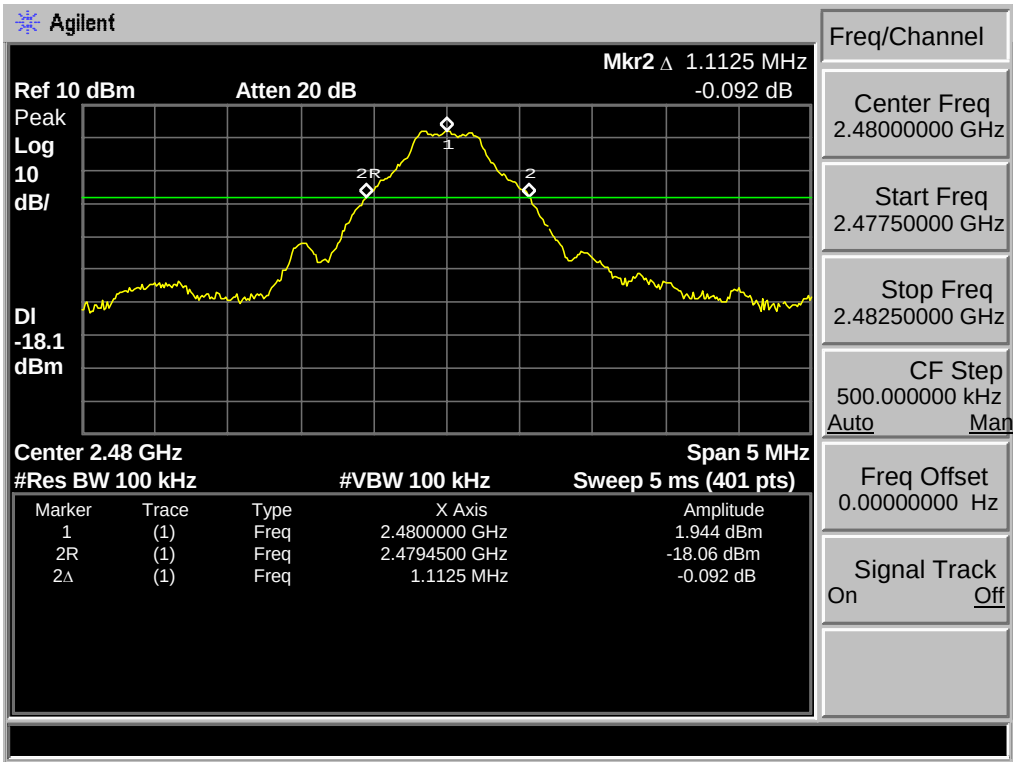
GFSK 2402MHz



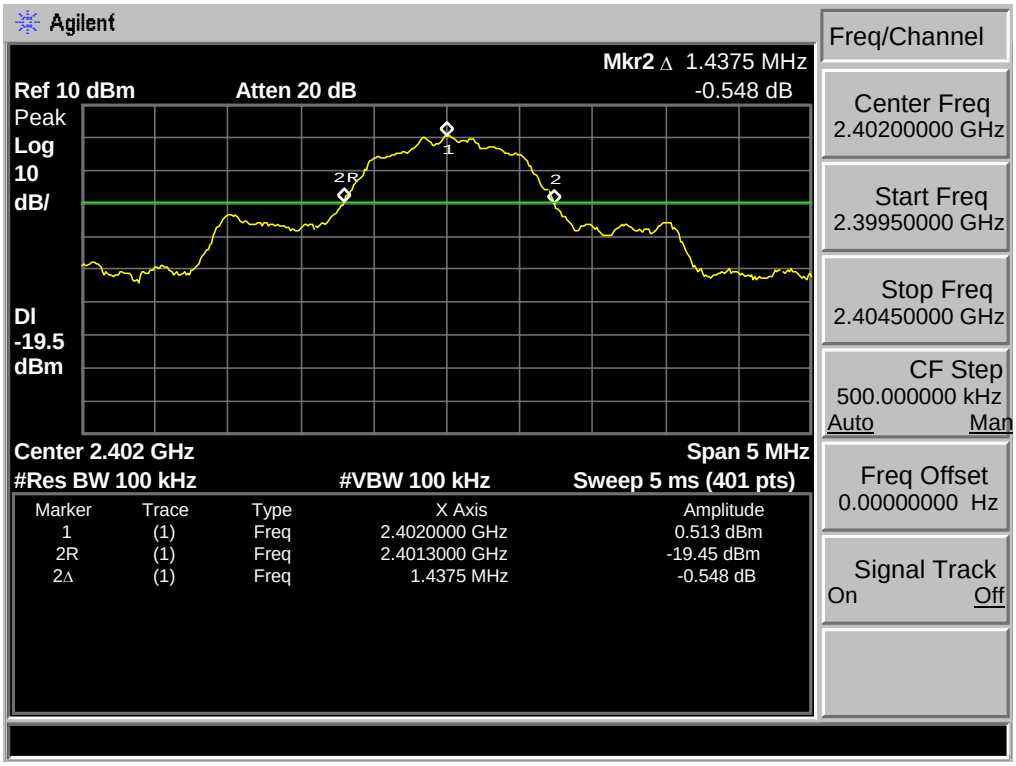
GFSK 2441MHz



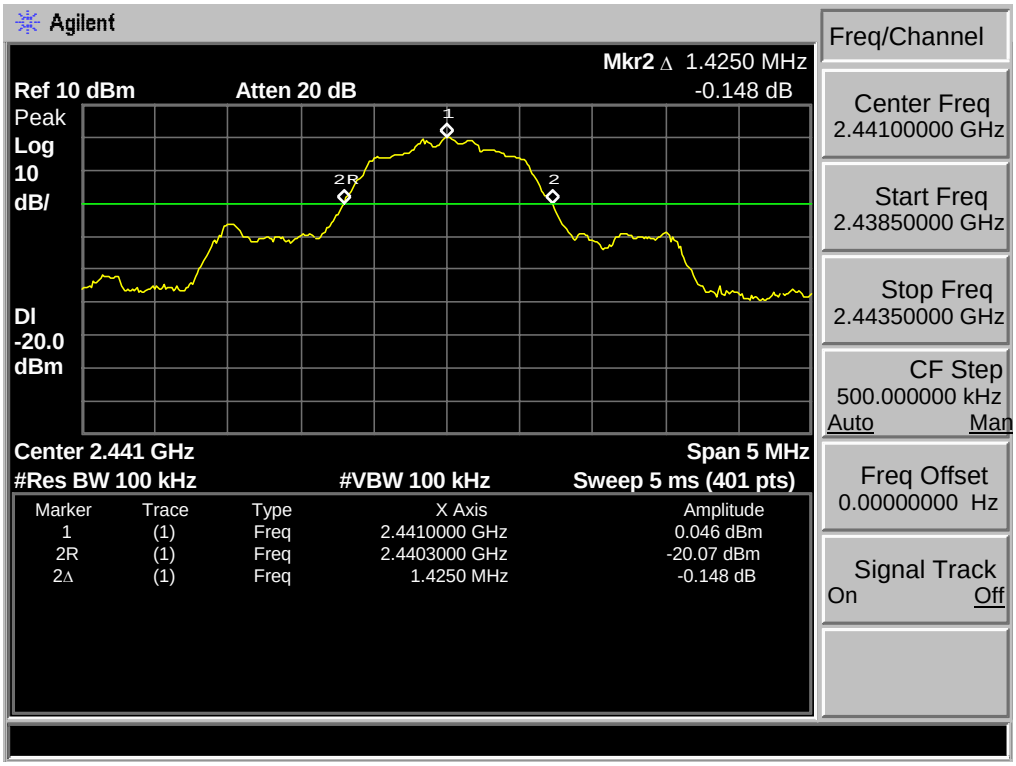
GFSK 2480MHz



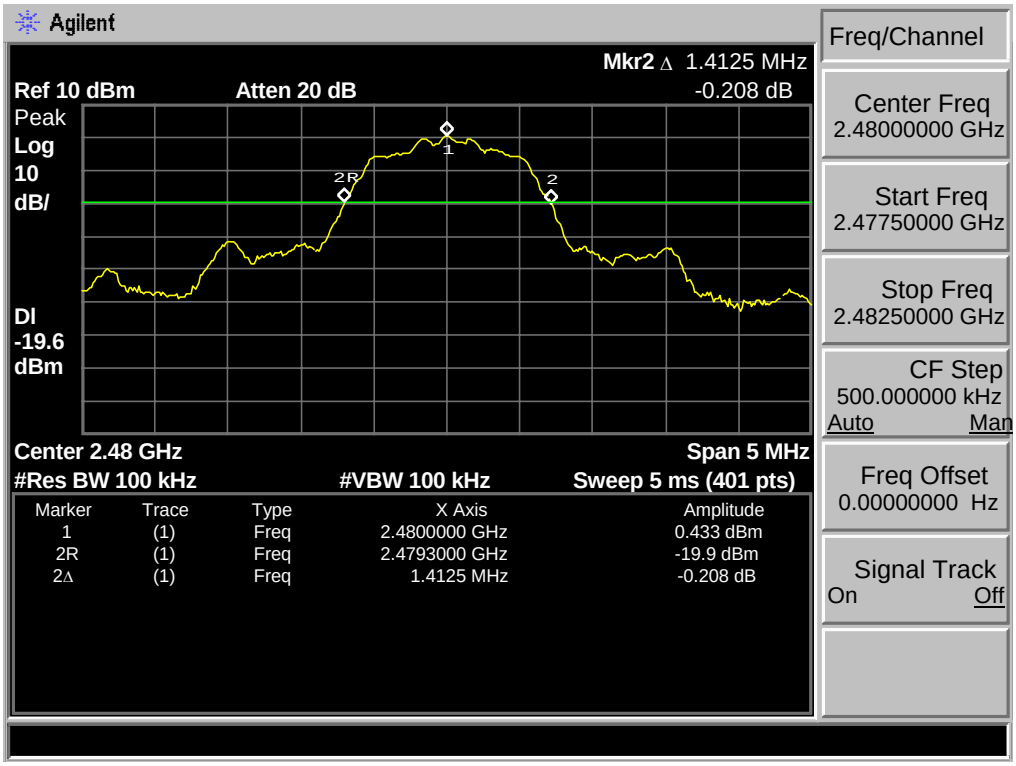
π/4-DQPSK 2402MHz



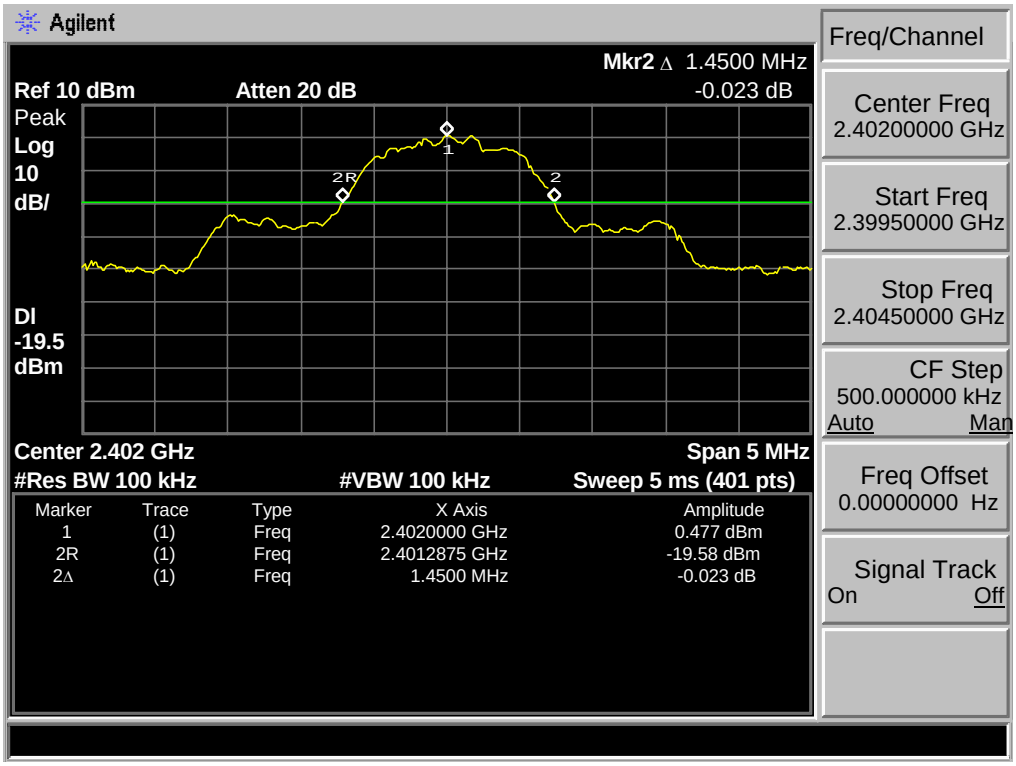
π/4-DQPSK 2441MHz



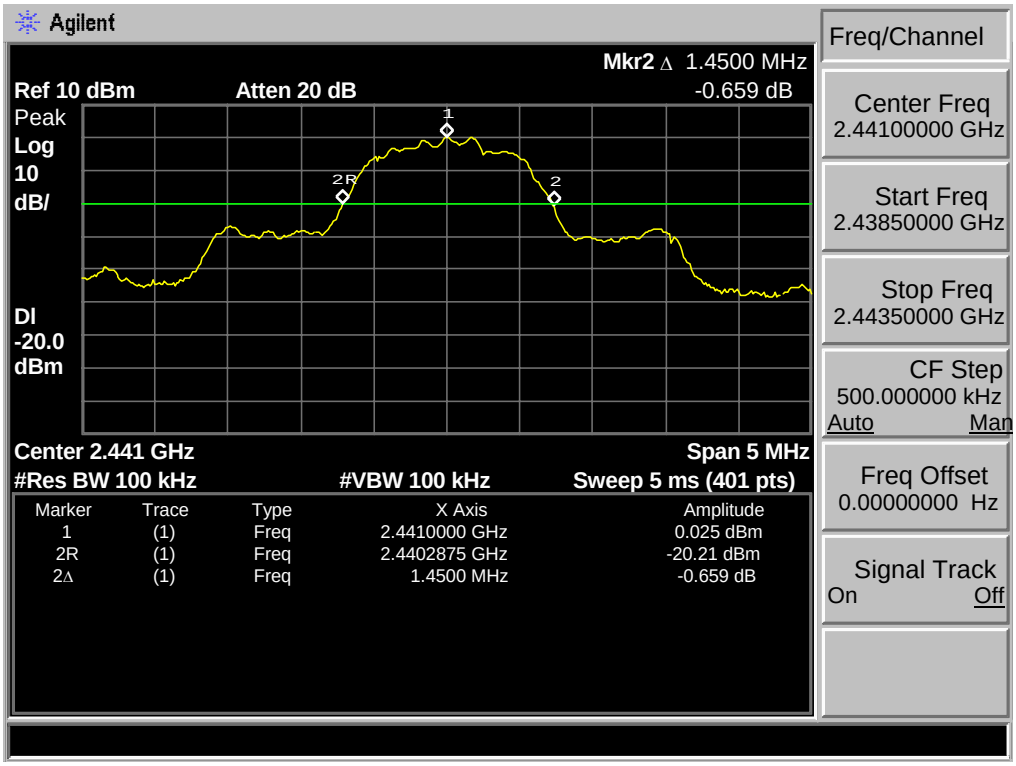
π/4-DQPSK 2480MHz



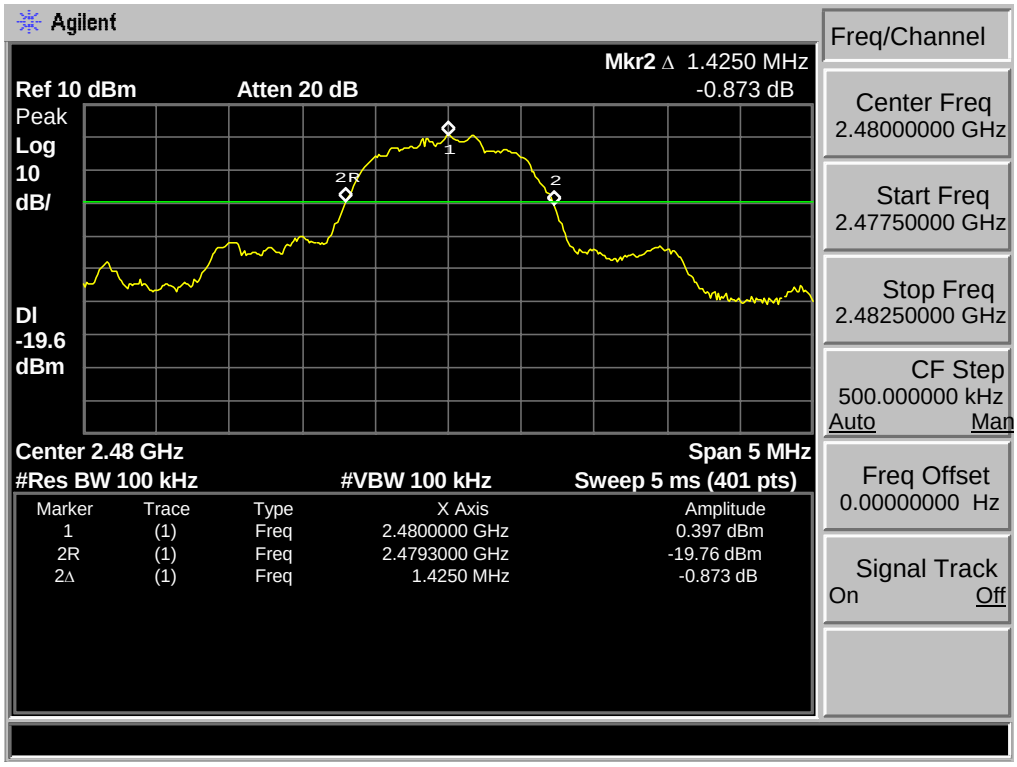
8-DPSK 2402MHz



8-DPSK 2441MHz



8-DPSK 2480MHz



5. CARRIER FREQUENCY SEPARATION

5.1. Limit

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

5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

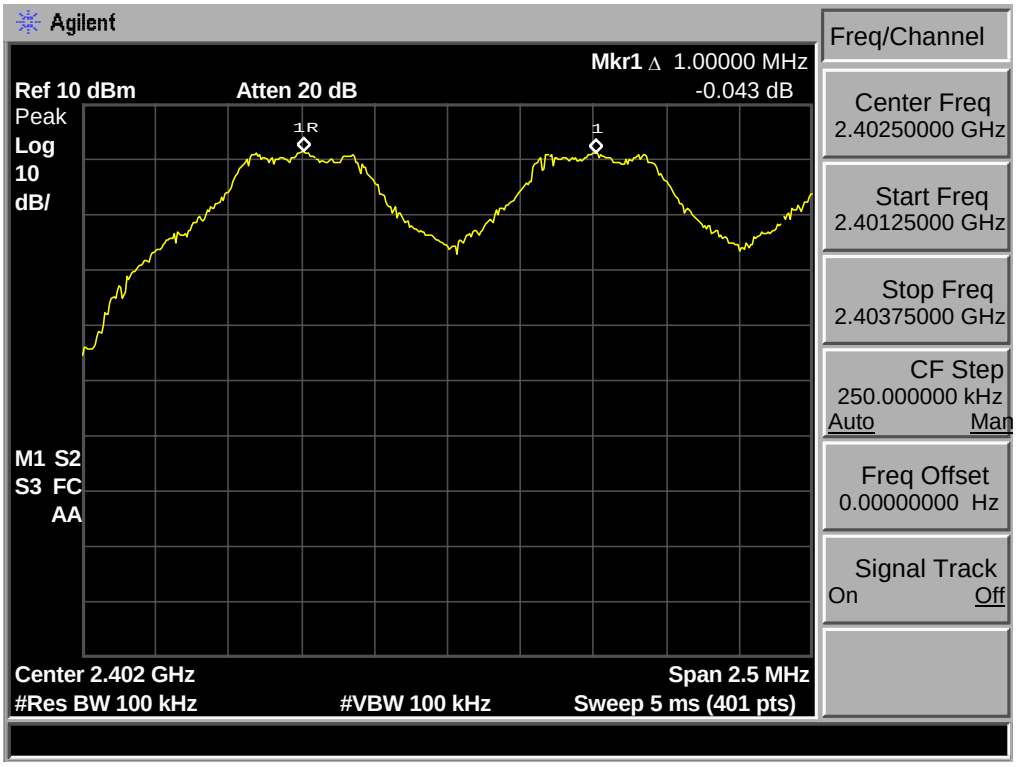
5.3. Test Result

EUT: Baby bluetooth spaeker M/N:HT2009				
Test date: 2012-6-20			Test site: RF site Tested by: Tony Tang	
Mode	Channel	Channel separation (MHz)	Limit	Conclusion
GFSK	Low CH	1.000	> 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater)	PASS
	Mid CH	1.000		PASS
	High CH	1.006		PASS
π/4-DQPS	Low CH	1.006		PASS
	Mid CH	1.000		PASS
	High CH	1.000		PASS
8-DPSK	Low CH	1.000		PASS
	Mid CH	1.006		PASS
	High CH	1.000		PASS

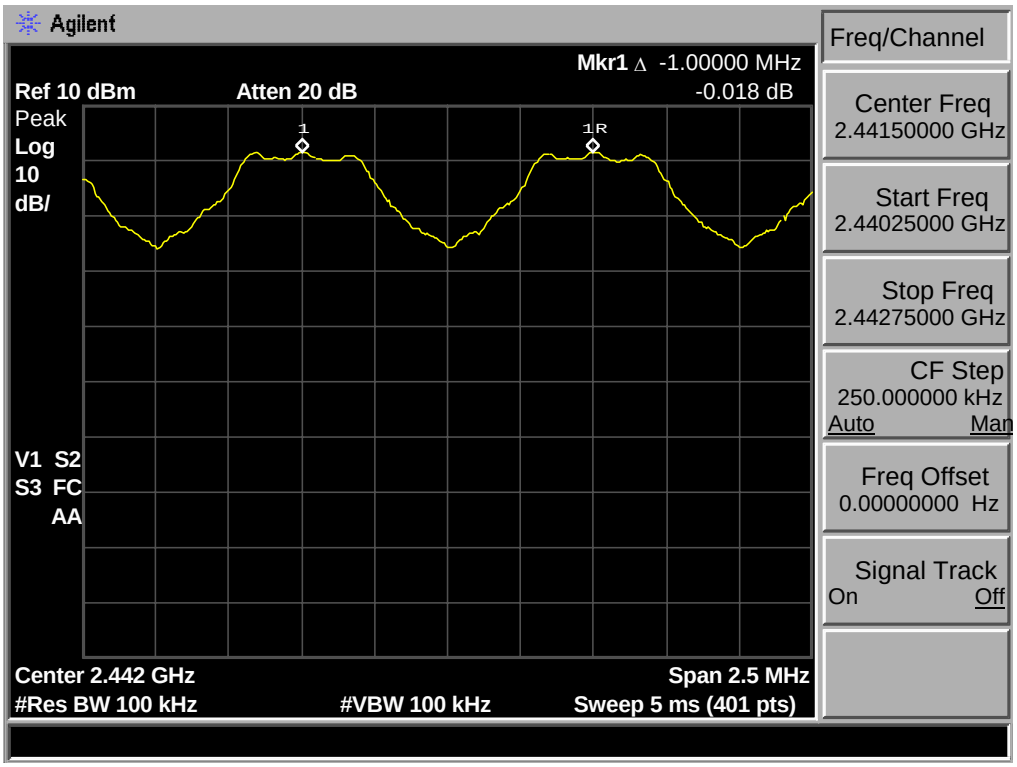
5.4. Test Data

GFSK

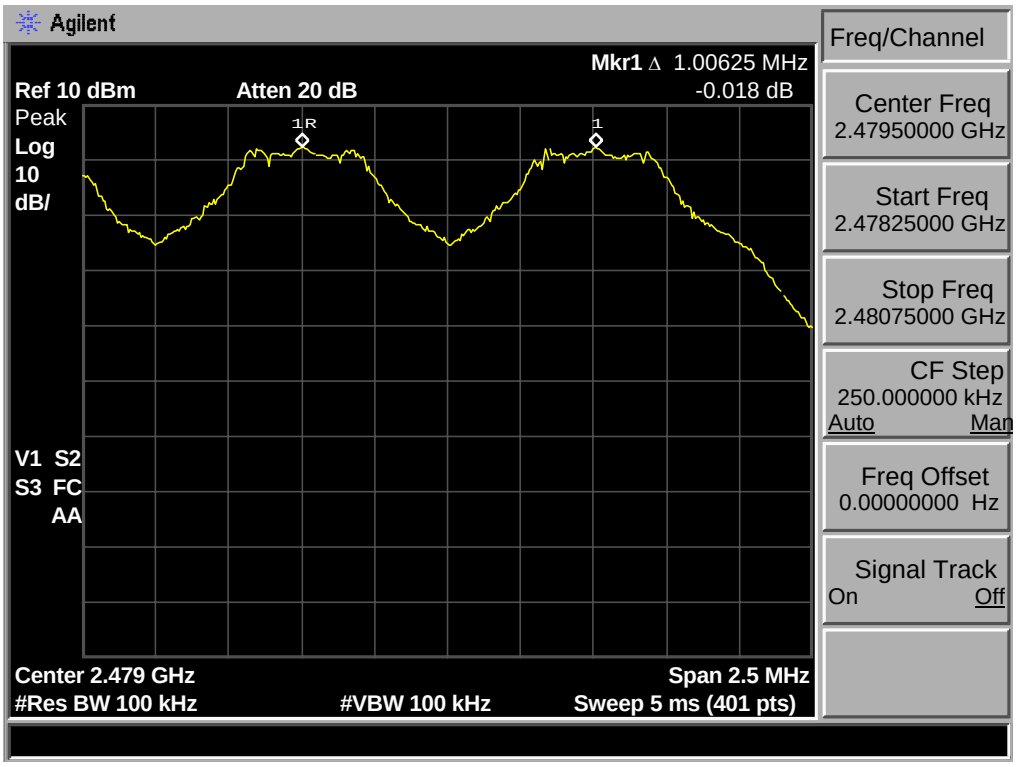
Low Channel



Mid Channel

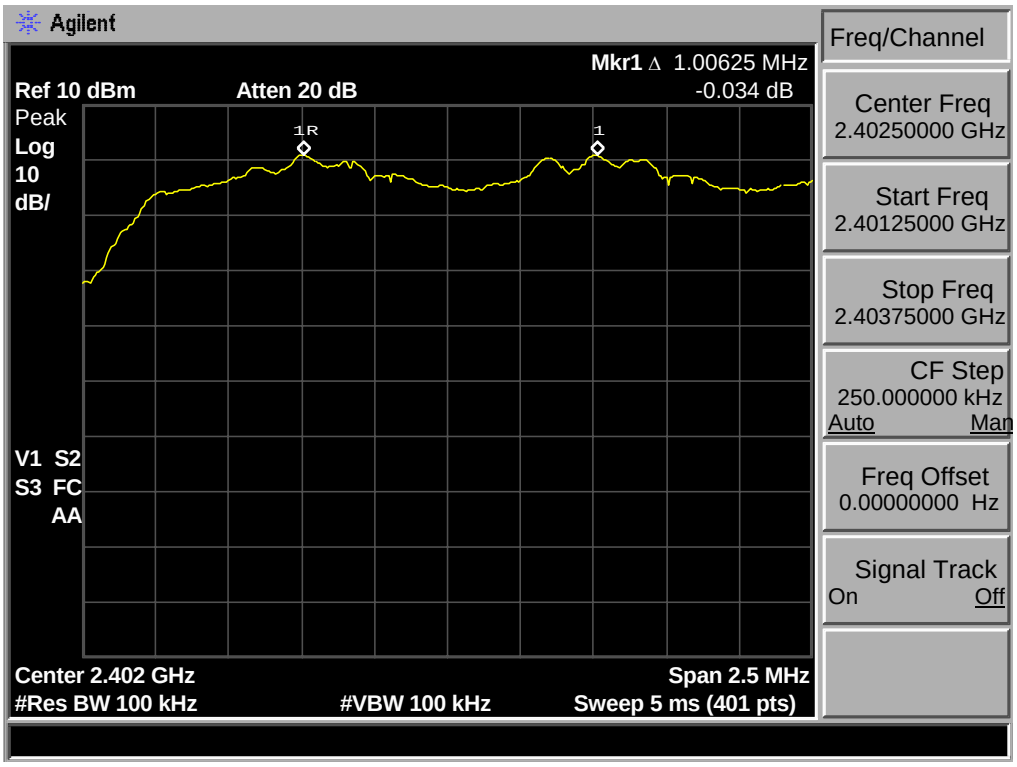


High Channel

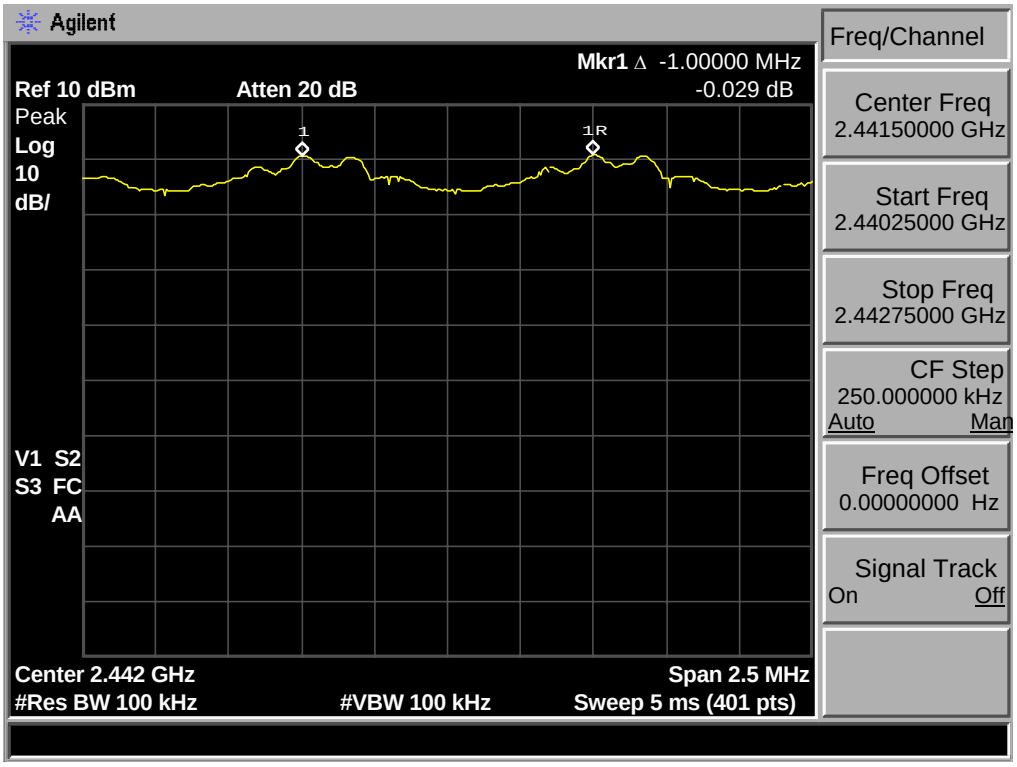


π/4-DQPSK

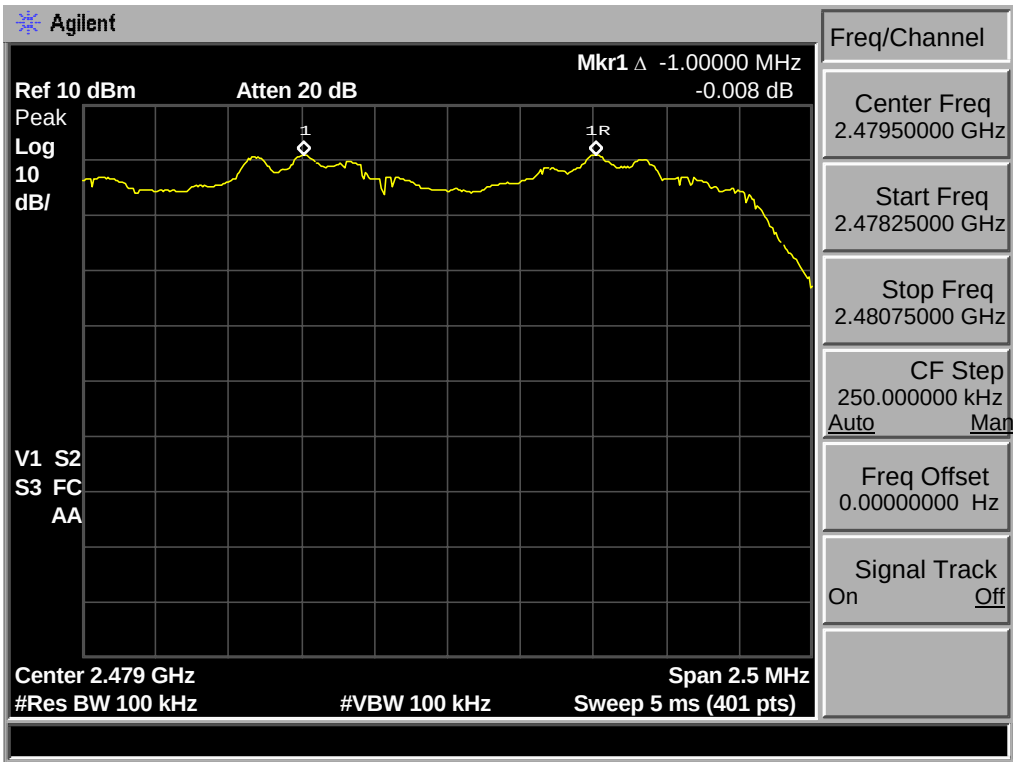
Low Channel



Mid Channel

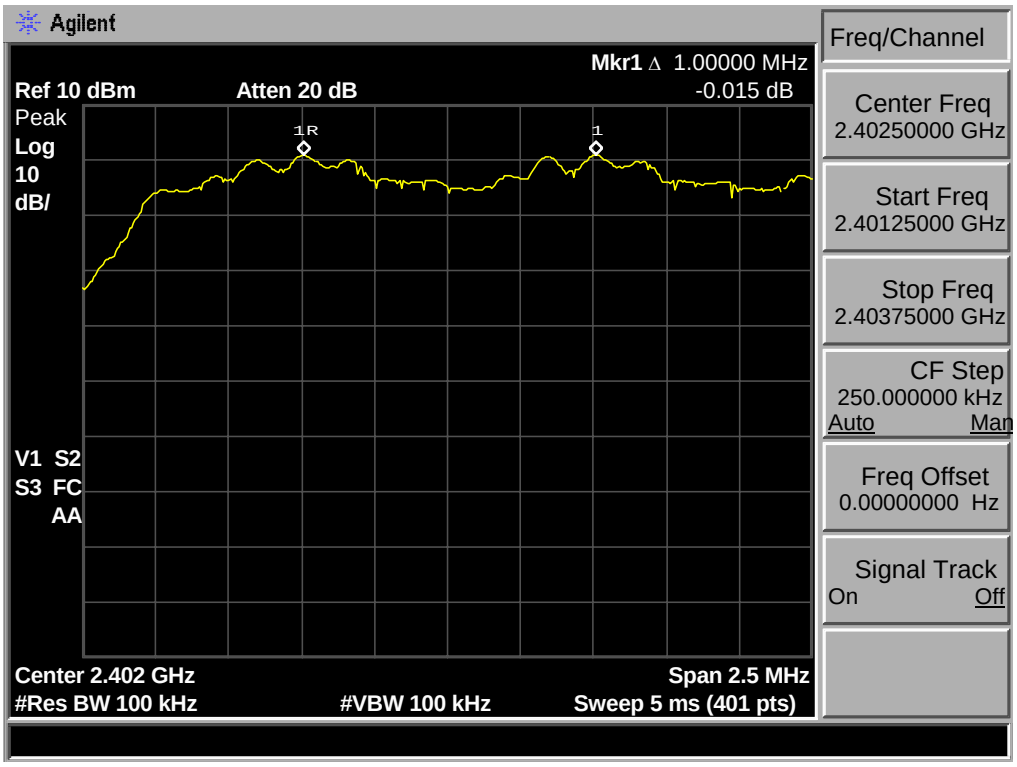


High Channel

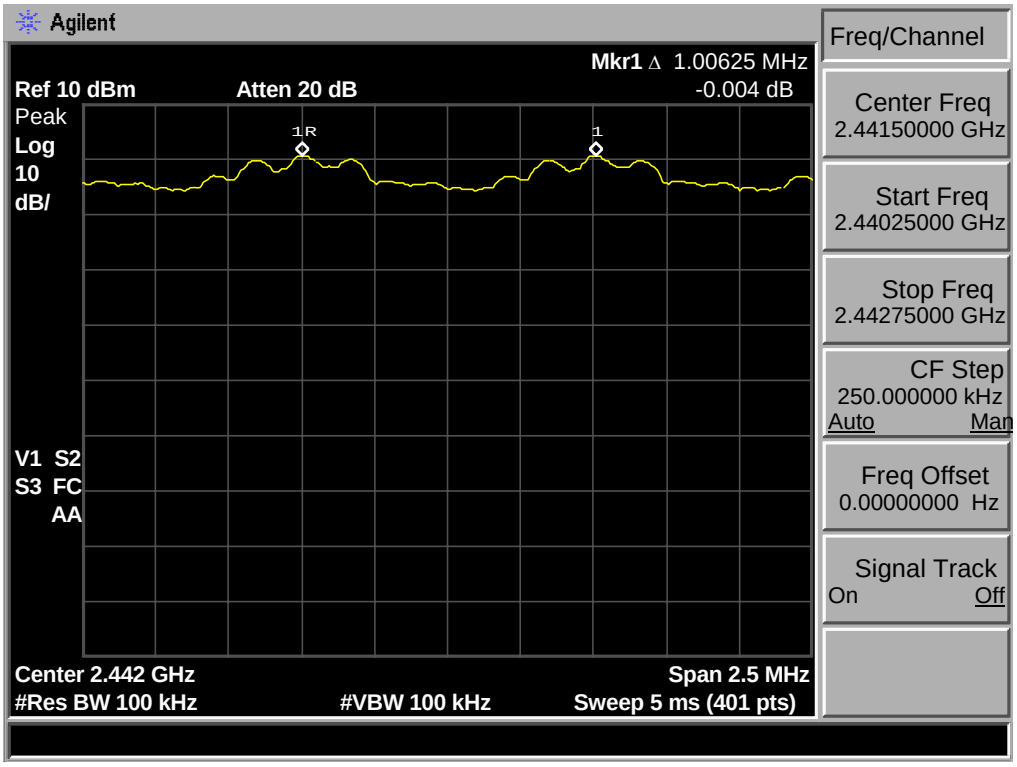


8-DPSK

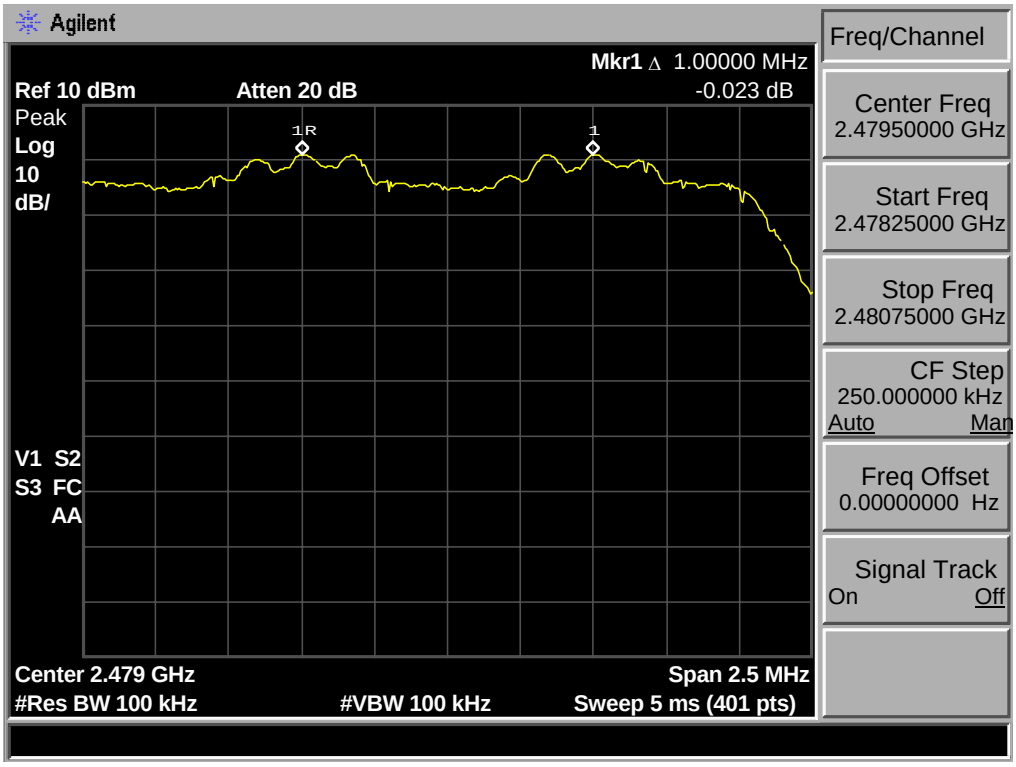
Low Channel



Mid Channel



High Chanel


Agilent
Mkr1 Δ 1.00000 MHz
Ref 10 dBm
Atten 20 dB
-0.023 dB
Peak
Log
10
dB/
1R
1
V1 S2
S3 FC
AA
Center 2.479 GHz
#Res BW 100 kHz
#VBW 100 kHz
Span 2.5 MHz
Sweep 5 ms (401 pts)
Freq/Channel
Center Freq
2.47950000 GHz
Start Freq
2.47825000 GHz
Stop Freq
2.48075000 GHz
CF Step
250.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

6. NUMBER OF HOPPING CHANNEL

6.1. Limit

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

6.2. Test Procedure

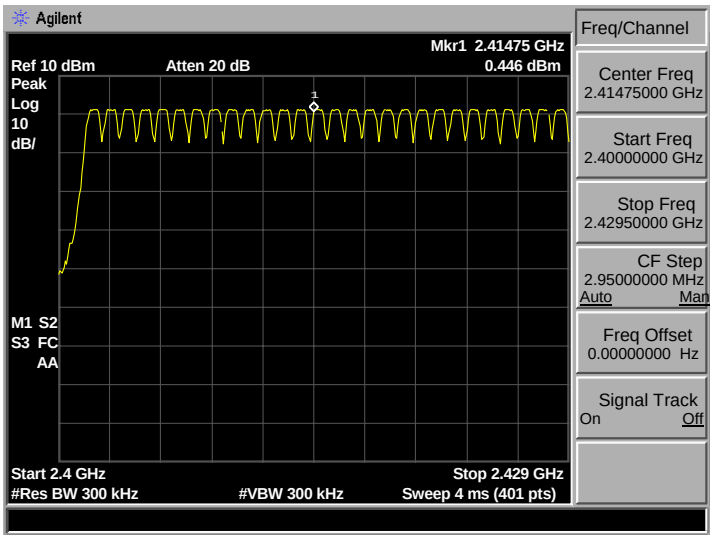
The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

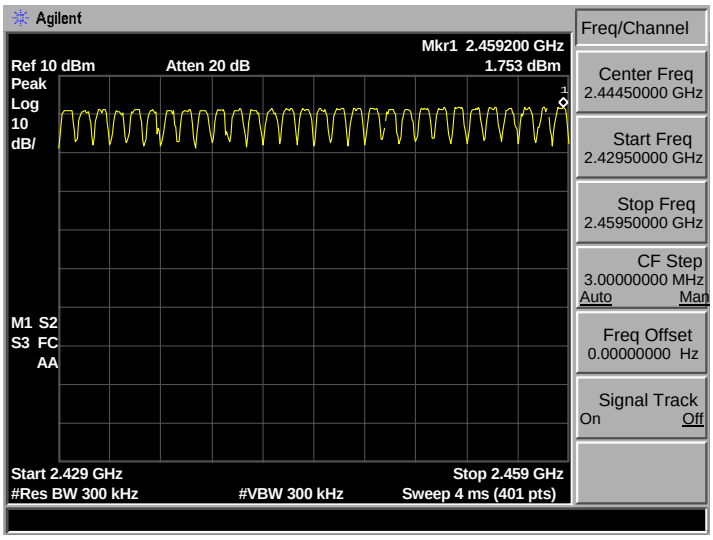
6.3. Test Result

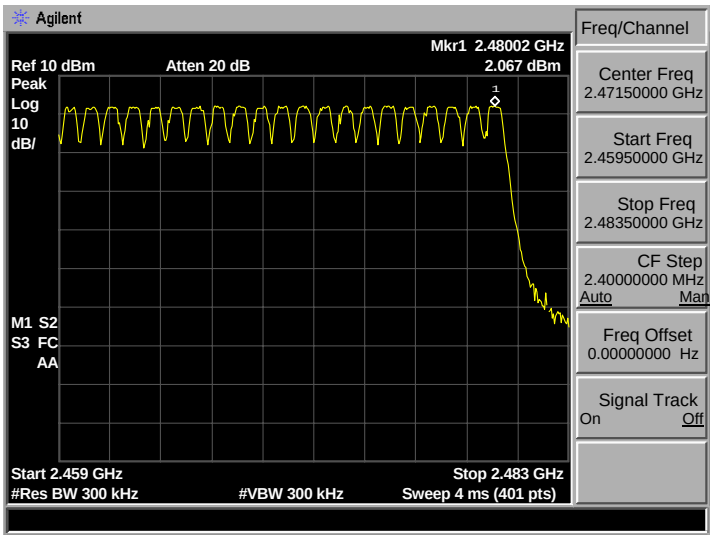
EUT: Penscanner M/N:HT2009			
Test date: 2012-6-20	Test site: RF site	Tested by: TaTa jiang	
Mode	Number of hopping channel	I	Conclusion
GFSK	79	>15	PASS
π/4-DQPSK	79	>15	PASS
8-DPSK	79	>15	PASS

6.4. Test Data

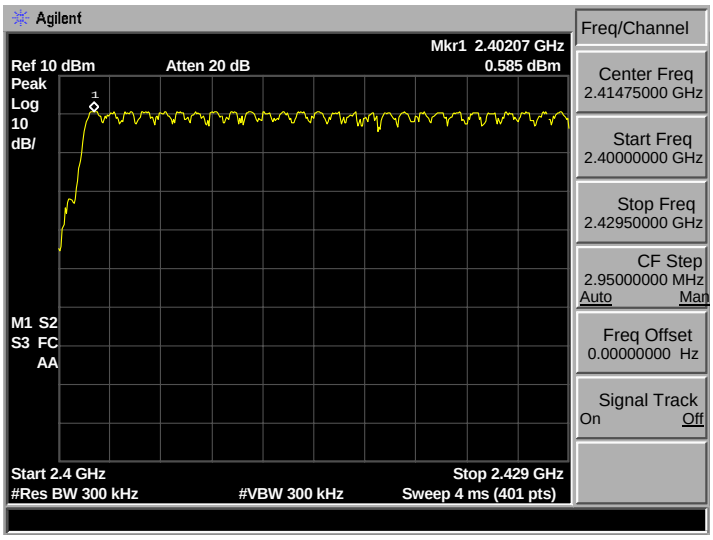
GFSK

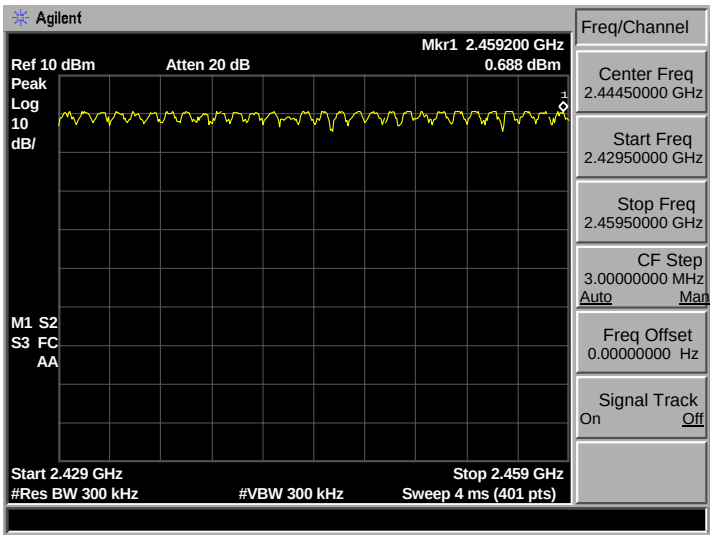


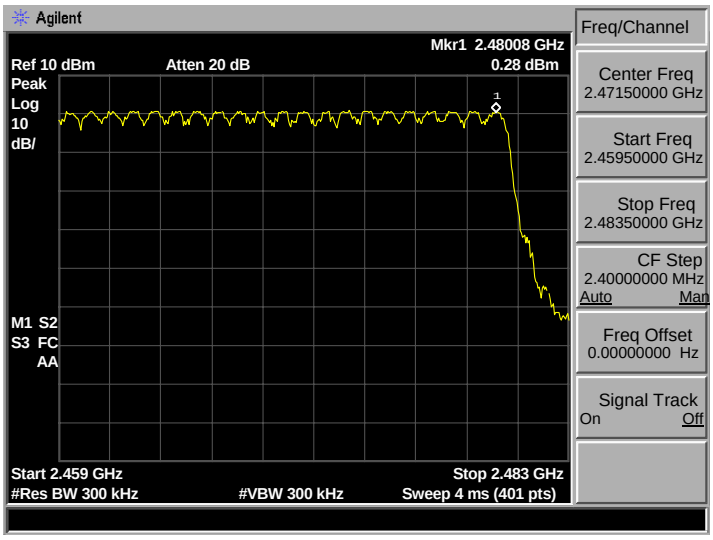




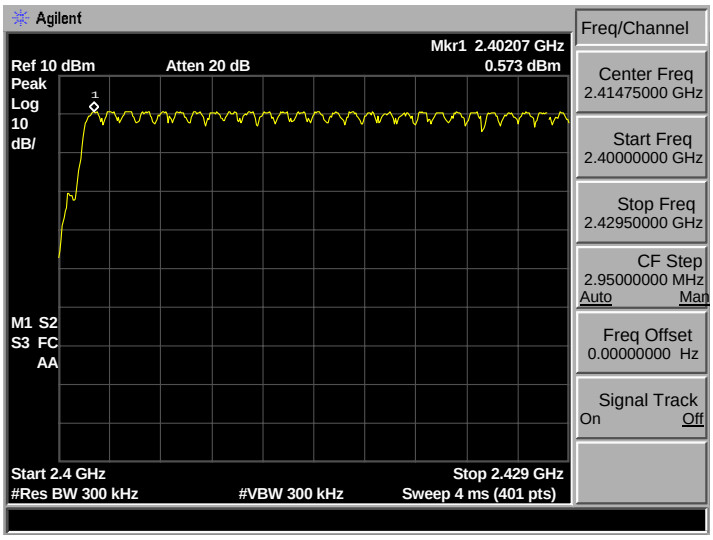
π/4 DQPSK

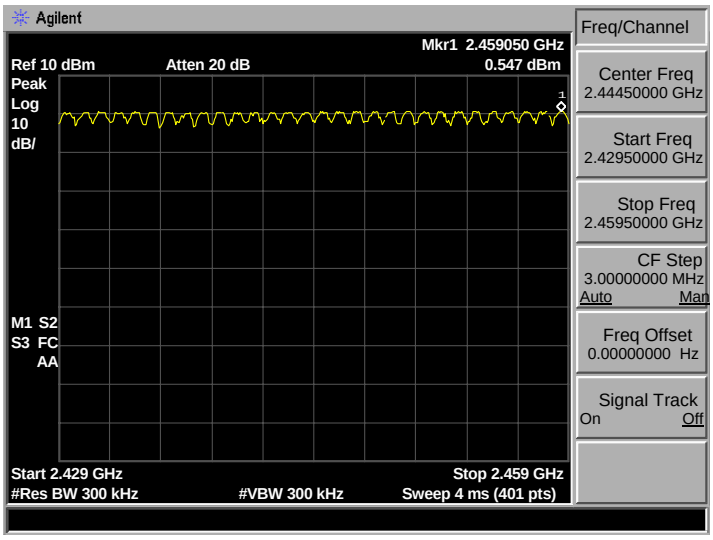

Agilent
Mkr1 2.40207 GHz
Ref 10 dBm
Atten 20 dB
0.585 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Start 2.4 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.429 GHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.41475000 GHz
Start Freq
2.40000000 GHz
Stop Freq
2.42950000 GHz
CF Step
2.95000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

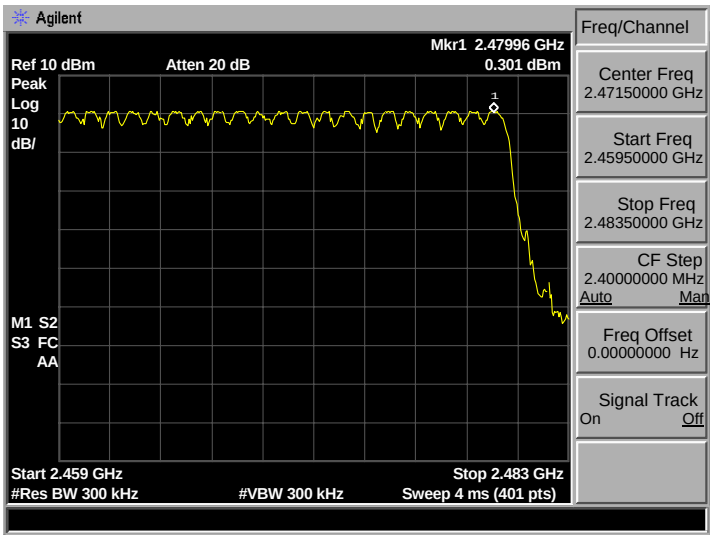

Agilent
Mkr1 2.459200 GHz
Ref 10 dBm
Atten 20 dB
0.688 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Start 2.429 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.459 GHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.44450000 GHz
Start Freq
2.42950000 GHz
Stop Freq
2.45950000 GHz
CF Step
3.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off


Agilent
Mkr1 2.48008 GHz
Ref 10 dBm
Atten 20 dB
0.28 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Start 2.459 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.483 GHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.47150000 GHz
Start Freq
2.45950000 GHz
Stop Freq
2.48350000 GHz
CF Step
2.40000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

8-DPSK


Agilent
Mkr1 2.40207 GHz
Ref 10 dBm
Atten 20 dB
0.573 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Start 2.4 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.429 GHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.41475000 GHz
Start Freq
2.40000000 GHz
Stop Freq
2.42950000 GHz
CF Step
2.95000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off


Agilent
Mkr1 2.459050 GHz
Ref 10 dBm
Atten 20 dB
0.547 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Start 2.429 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.459 GHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.44450000 GHz
Start Freq
2.42950000 GHz
Stop Freq
2.45950000 GHz
CF Step
3.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off


Agilent
Mkr1 2.47996 GHz
Ref 10 dBm
Atten 20 dB
0.301 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Start 2.459 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.483 GHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.47150000 GHz
Start Freq
2.45950000 GHz
Stop Freq
2.48350000 GHz
CF Step
2.40000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

7. DWELL TIME

7.1. Limit

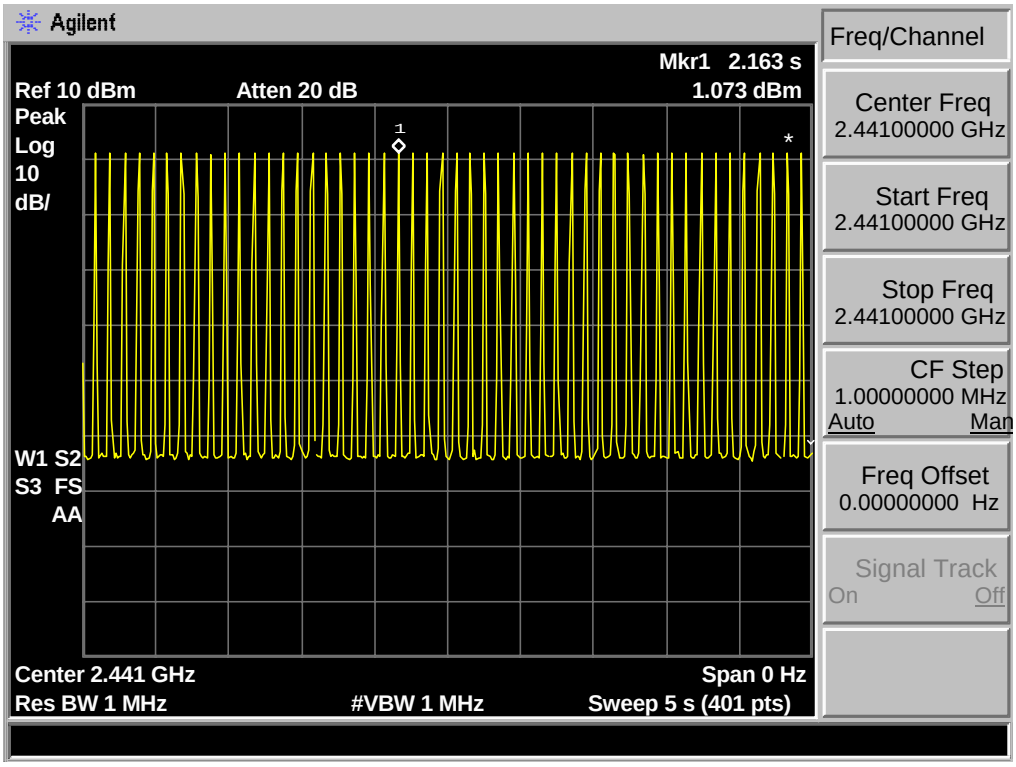
The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

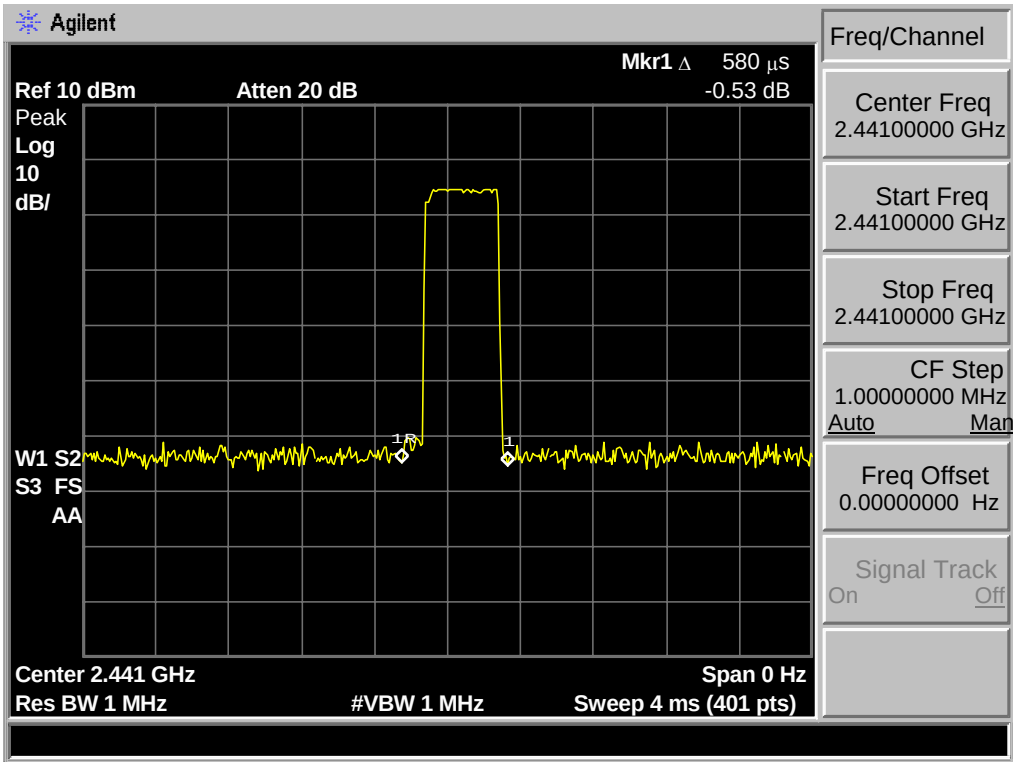
7.2. Test Result

EUT: Baby bluetooth spaeker	M/N:HT2009		
Test date: 2012-6-20	Test site: RF site	Tested by: Tony Tang	
Mode	Dwell time	Limit	Conclusion
GFSK DH1	183.28	<400ms	PASS
GFSK DH3	298.62	<400ms	PASS
GFSK DH5	327.70	<400ms	PASS
π/4 DQPSK DH1	173.80	<400ms	PASS
π/4 DQPSK DH3	289.14	<400ms	PASS
π/4 DQPSK DH5	329.84	<400ms	PASS
8-DPSK DH1	180.12	<400ms	PASS
8-DPSK DH3	284.40	<400ms	PASS
8-DPSK DH5	329.84	<400ms	PASS

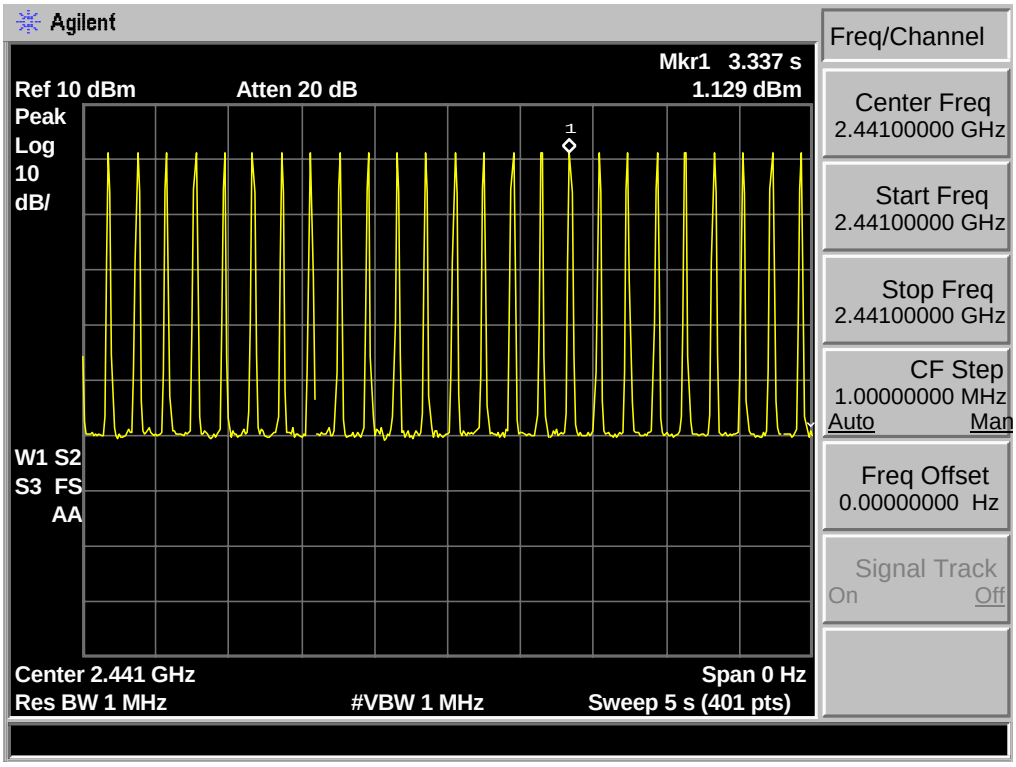
7.3. Test Data

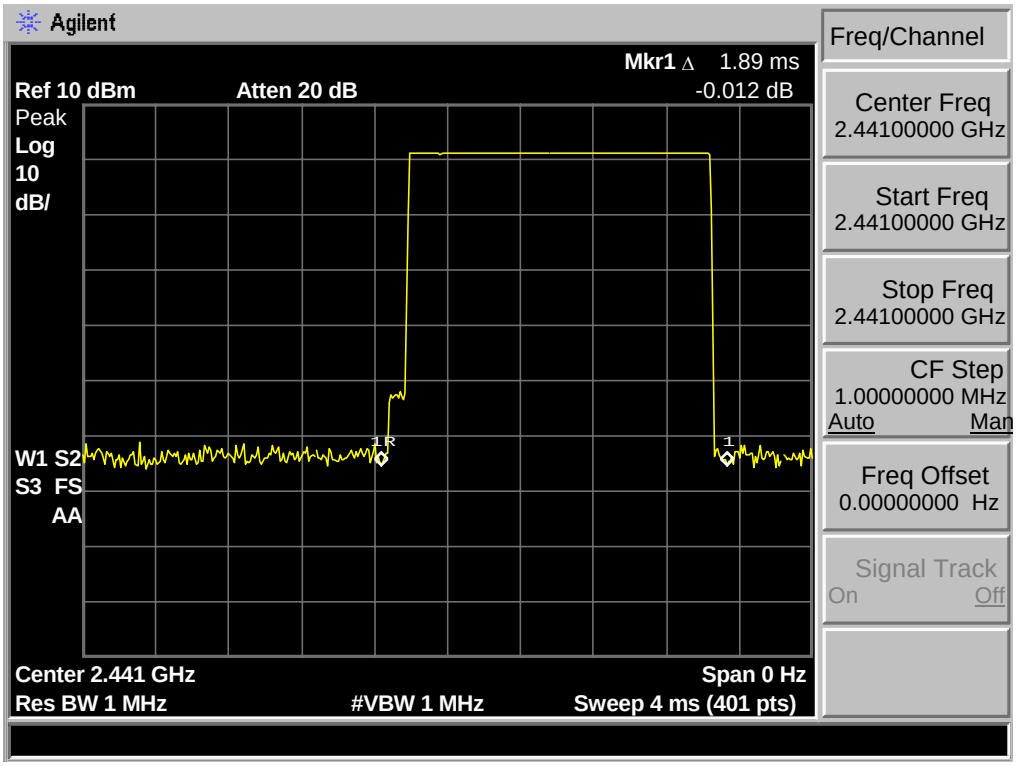
GFSK DH1 : 50hop/5s * 0.4 * 79 * 0.580ms = 183.28



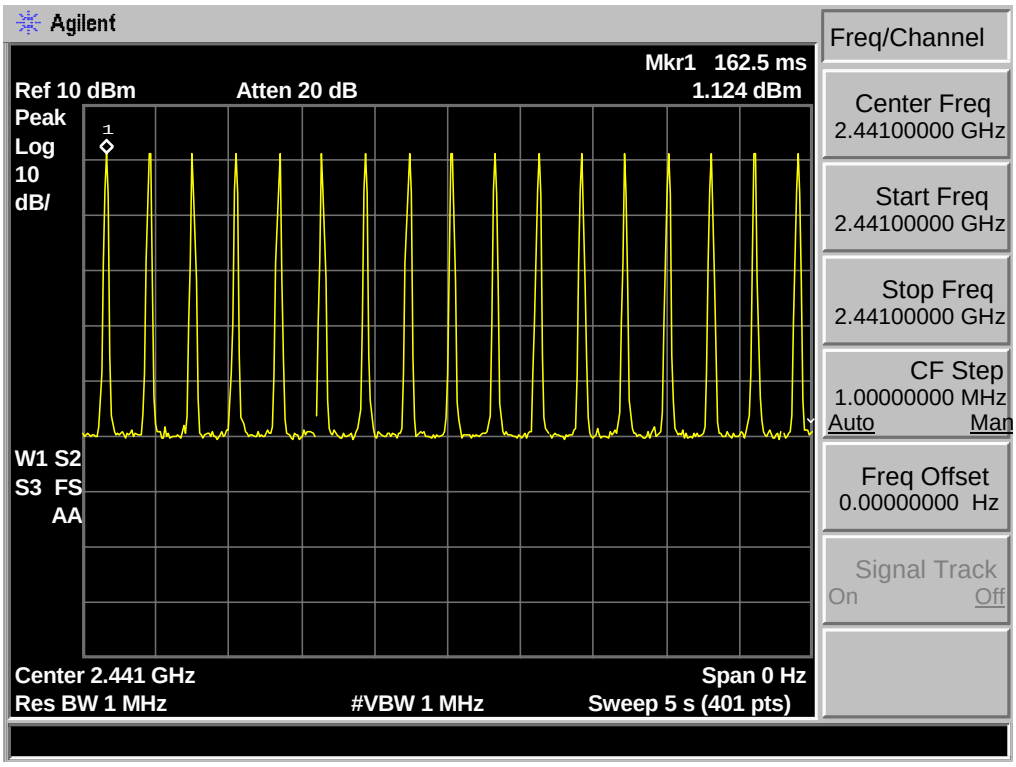


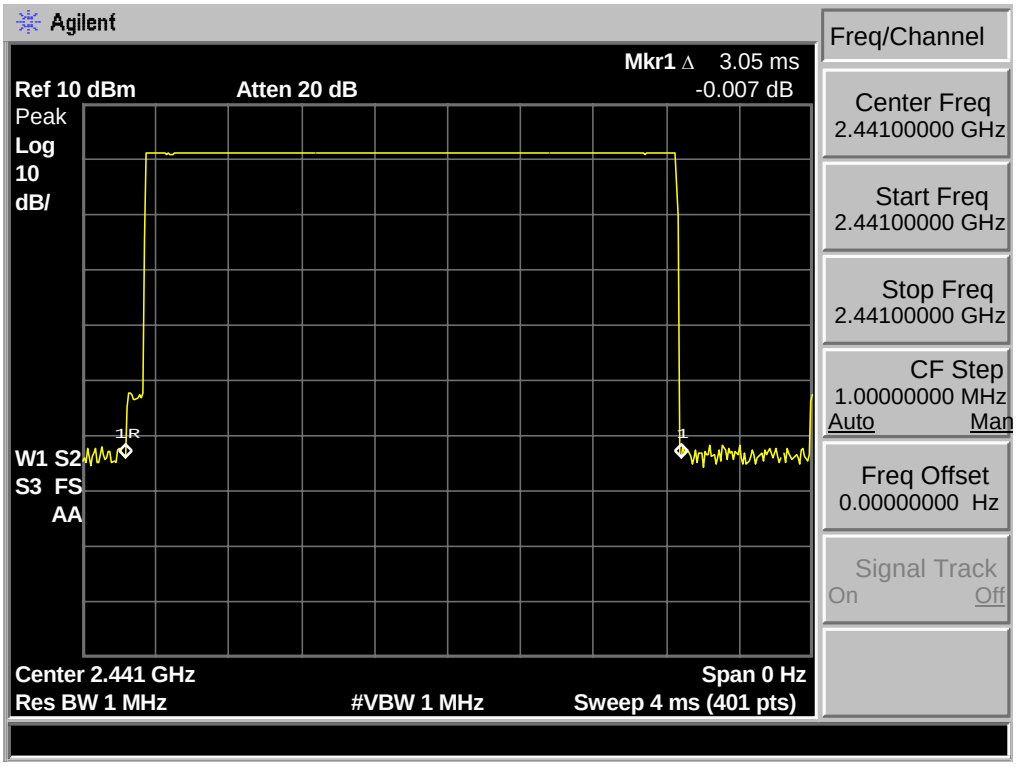
GFSK DH3 : 25hop/5s * 0.4 * 79 * 1.89ms= 298.62



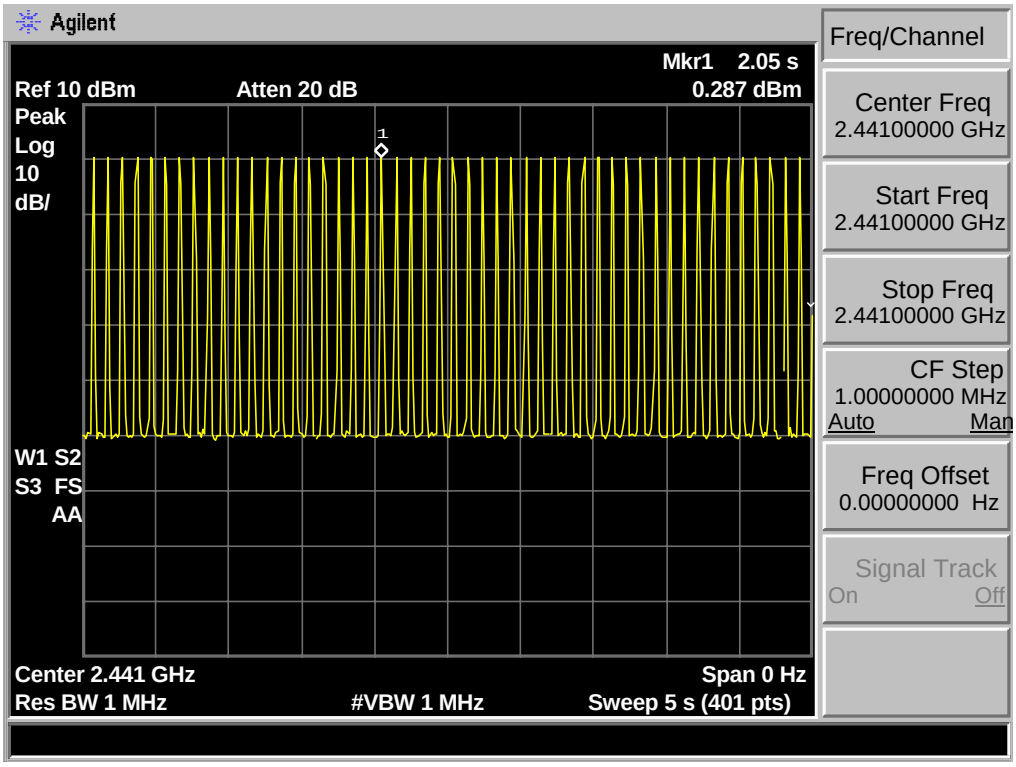


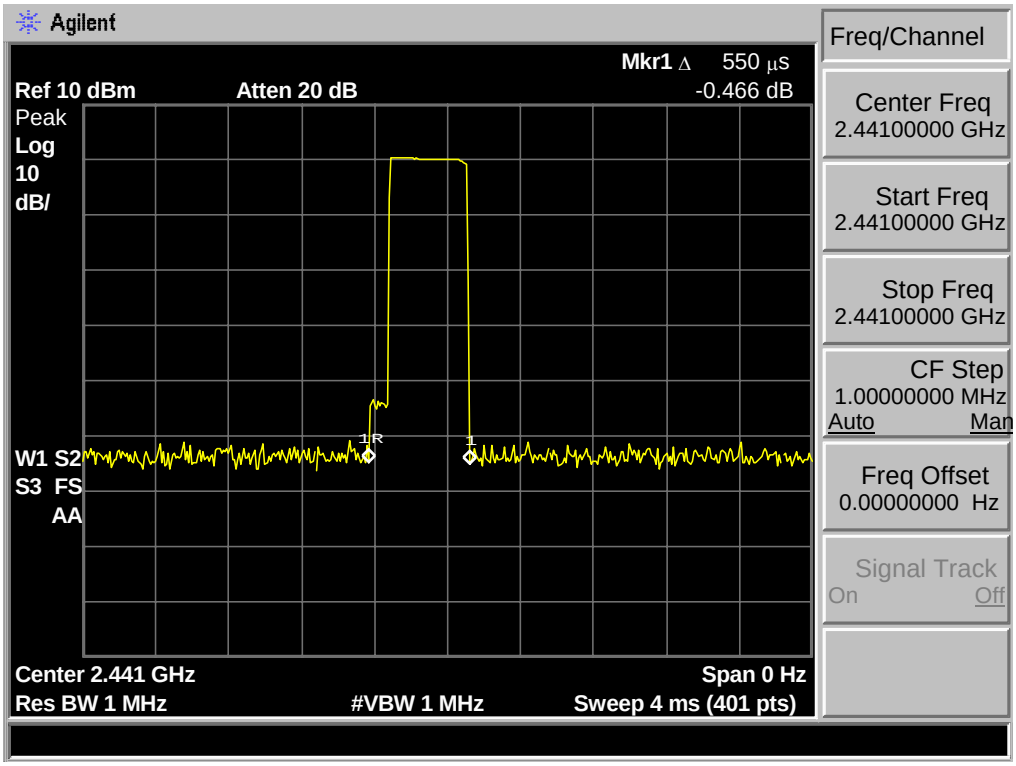
GSFK DH5 : 17hop/5s * 0.4 * 79 *3.05ms = 327.70



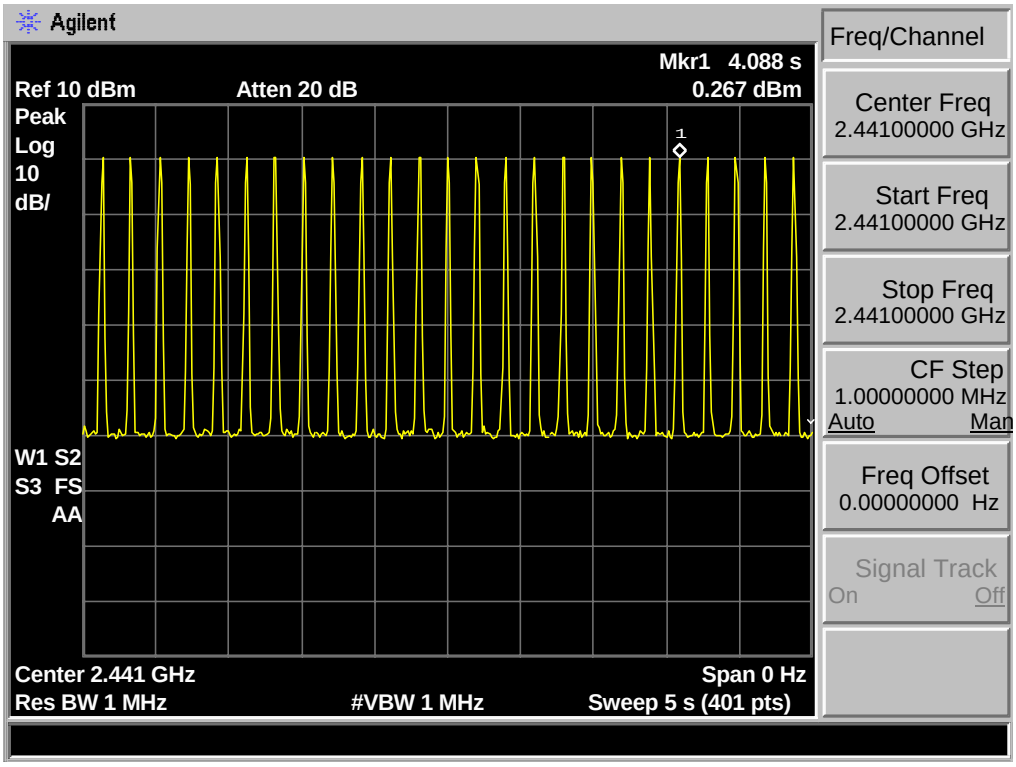


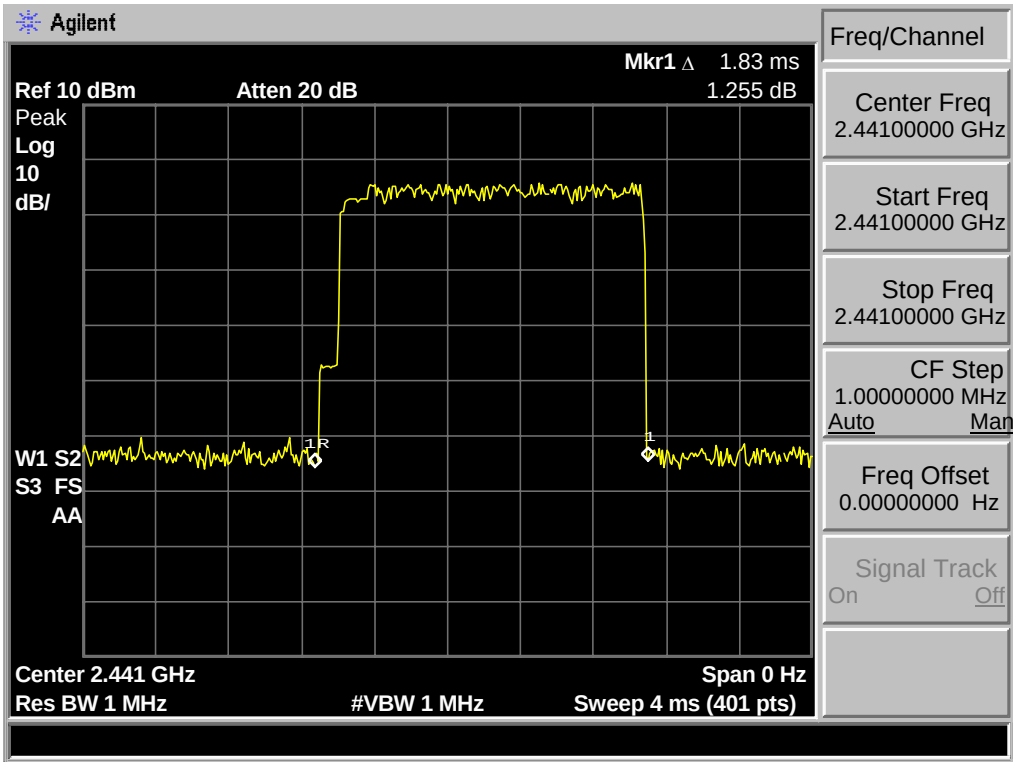
π/4-DQPSK DH1: 50hop/5 * 0.4 * 79 *0.550ms=173.80



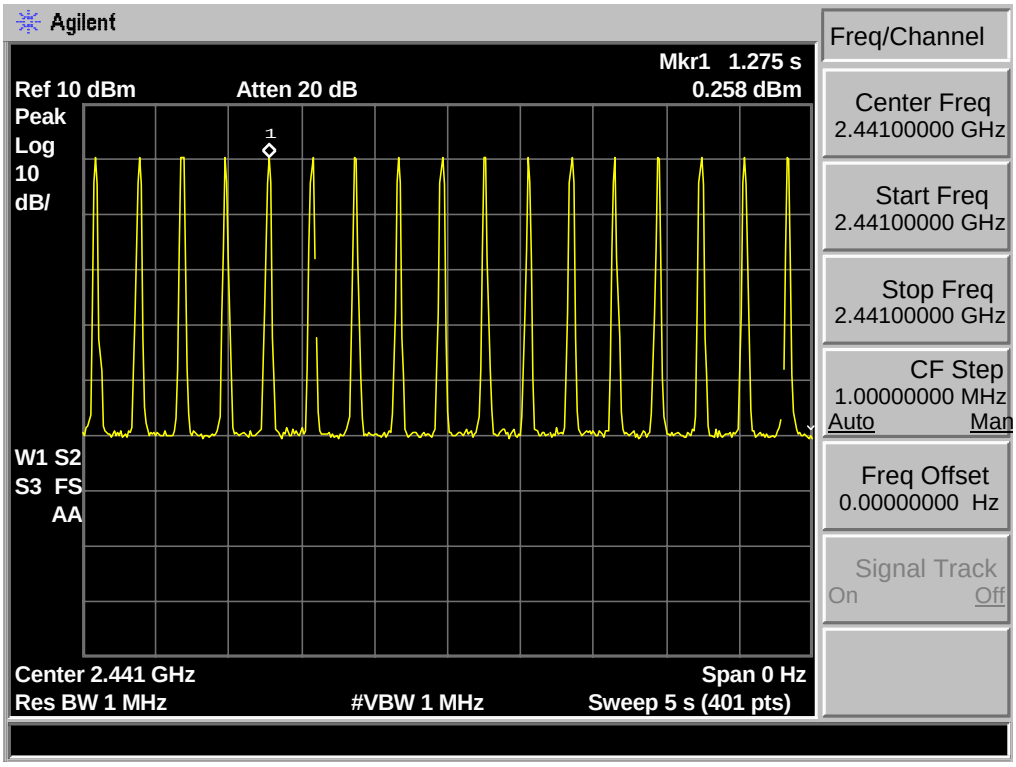


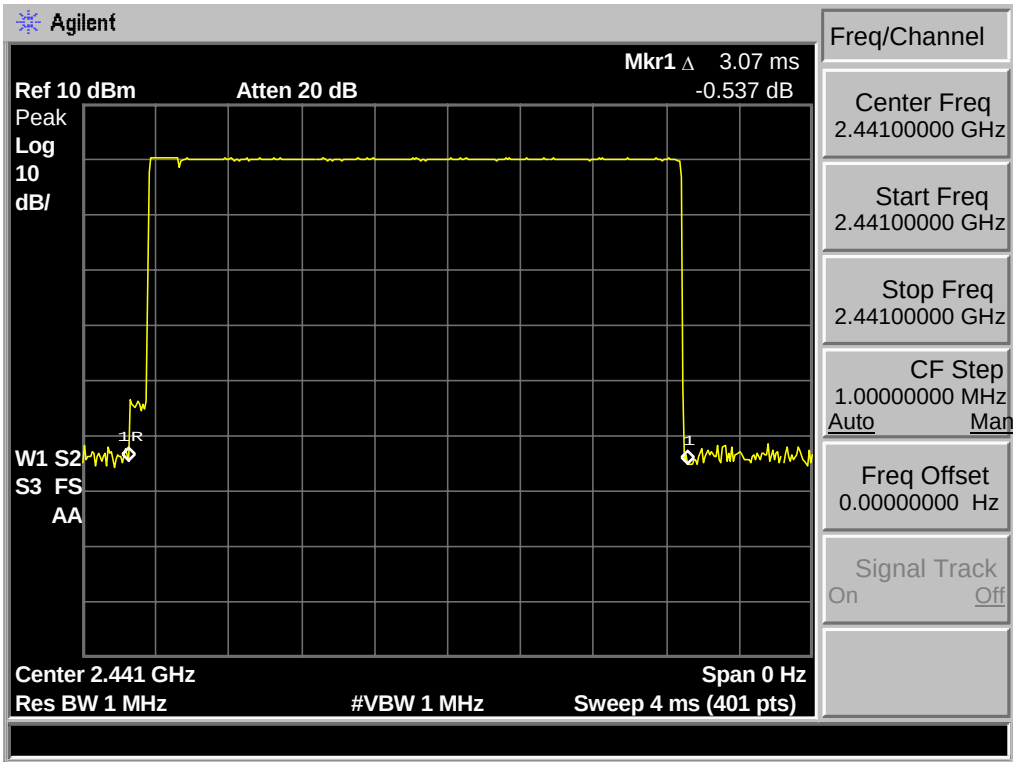
π/4-DQPSK DH3: 25hop/5 * 0.4 * 79 *1.83 = 289.14



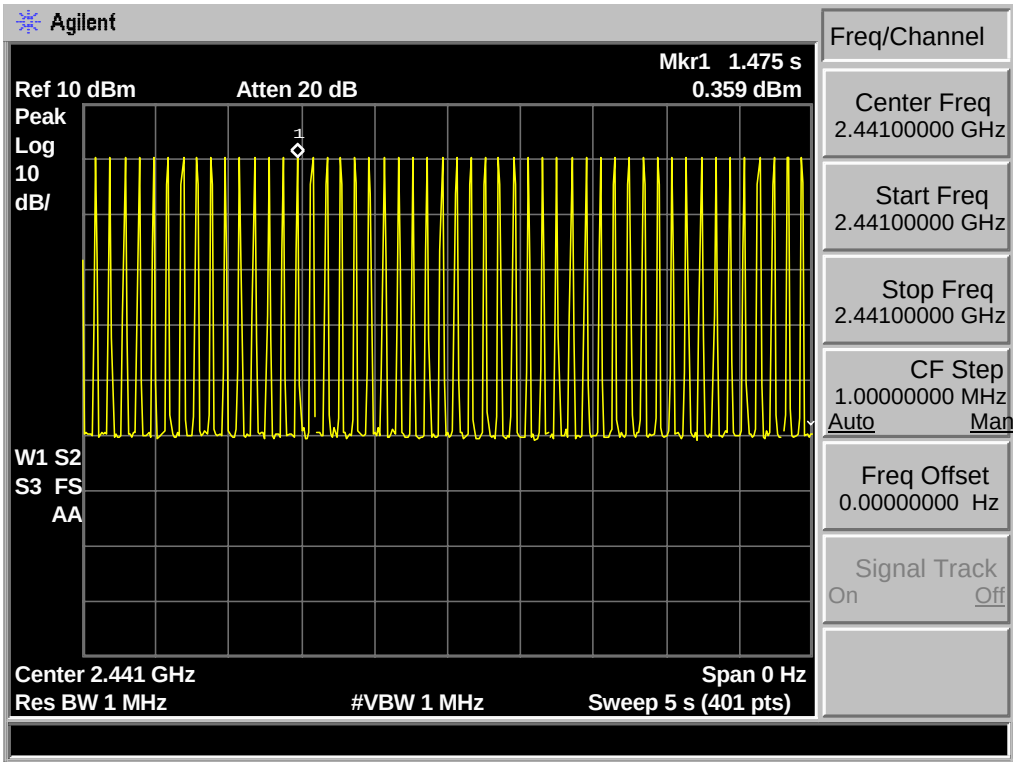


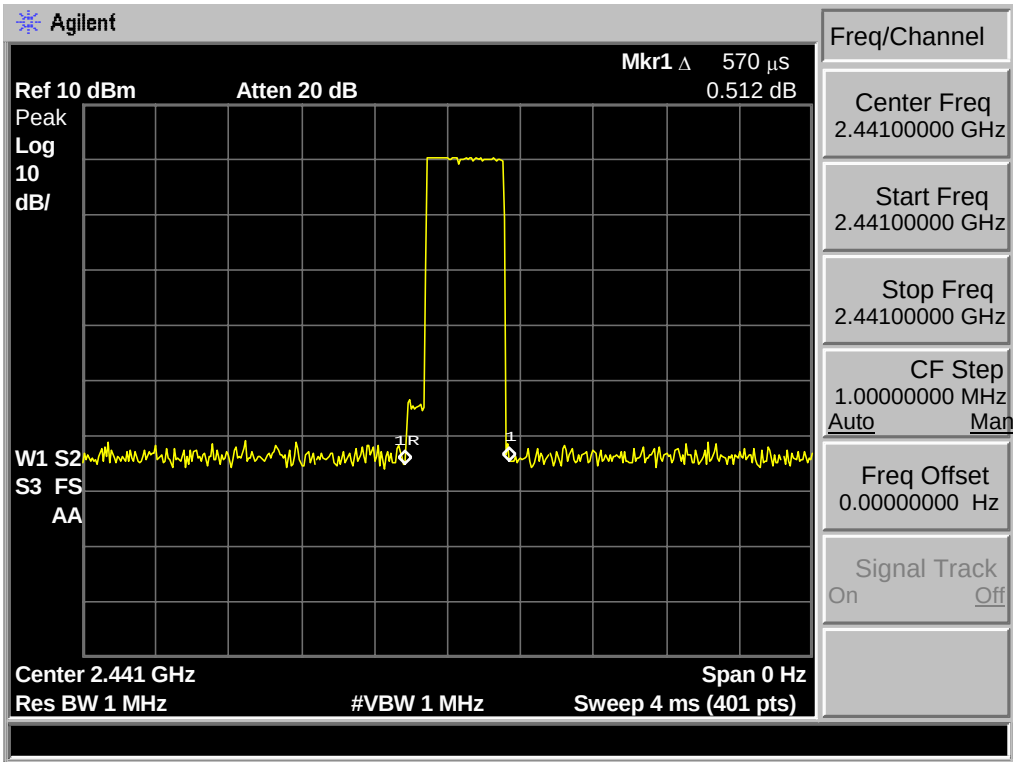
π/4-DQPSK DH5: 17hop/5 * 0.4 * 79 *3.07ms= 329.84



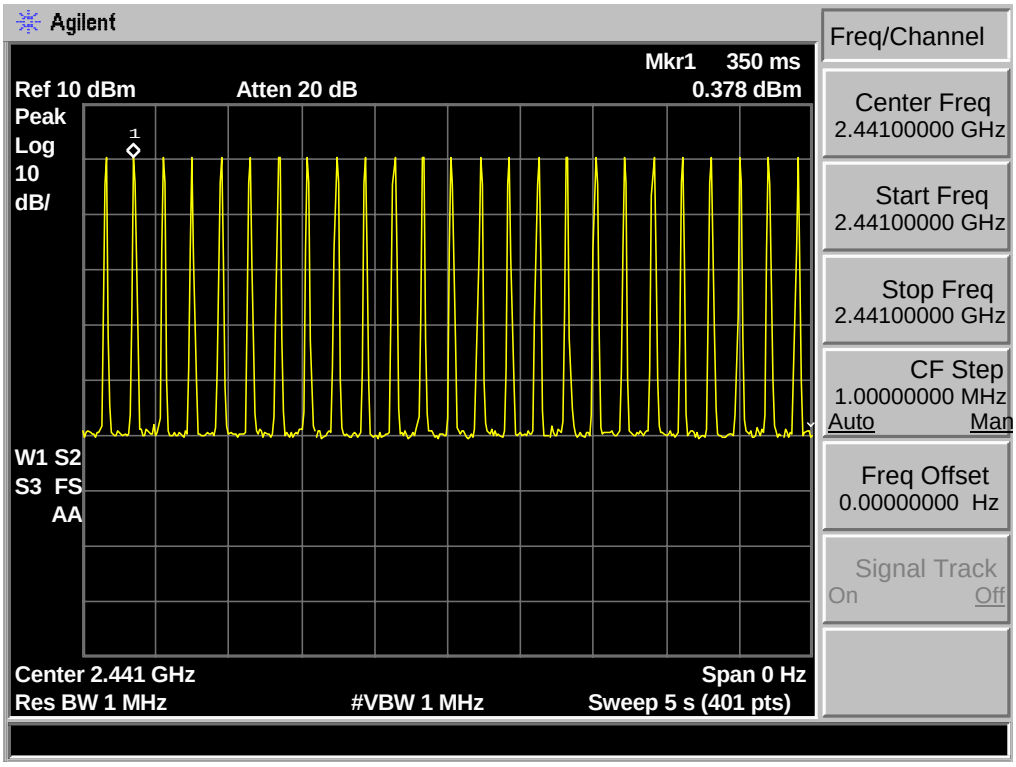


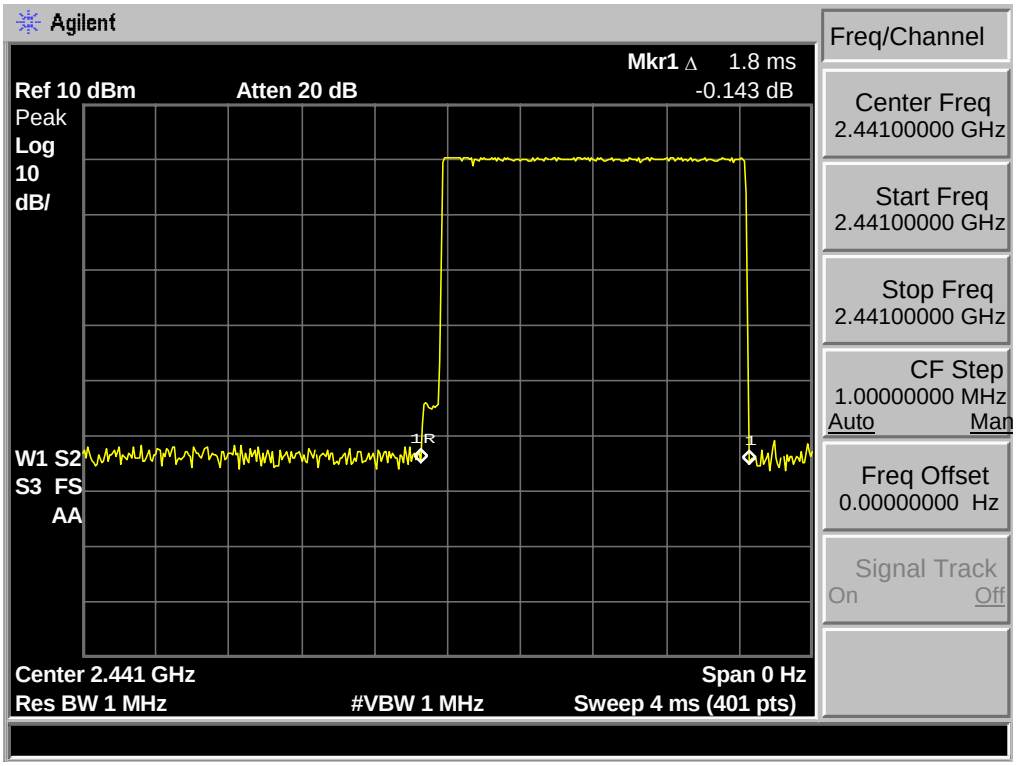
8-DPSK DH1: 50hop/5 * 0.4 * 79 * 0.570ms=180.12



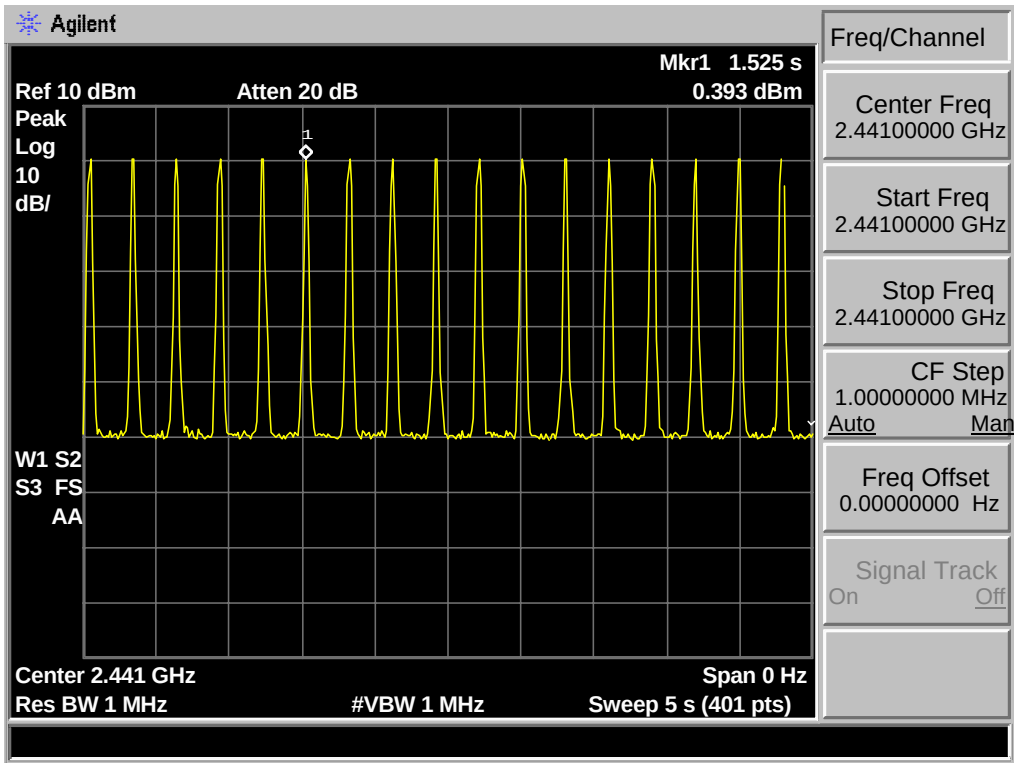


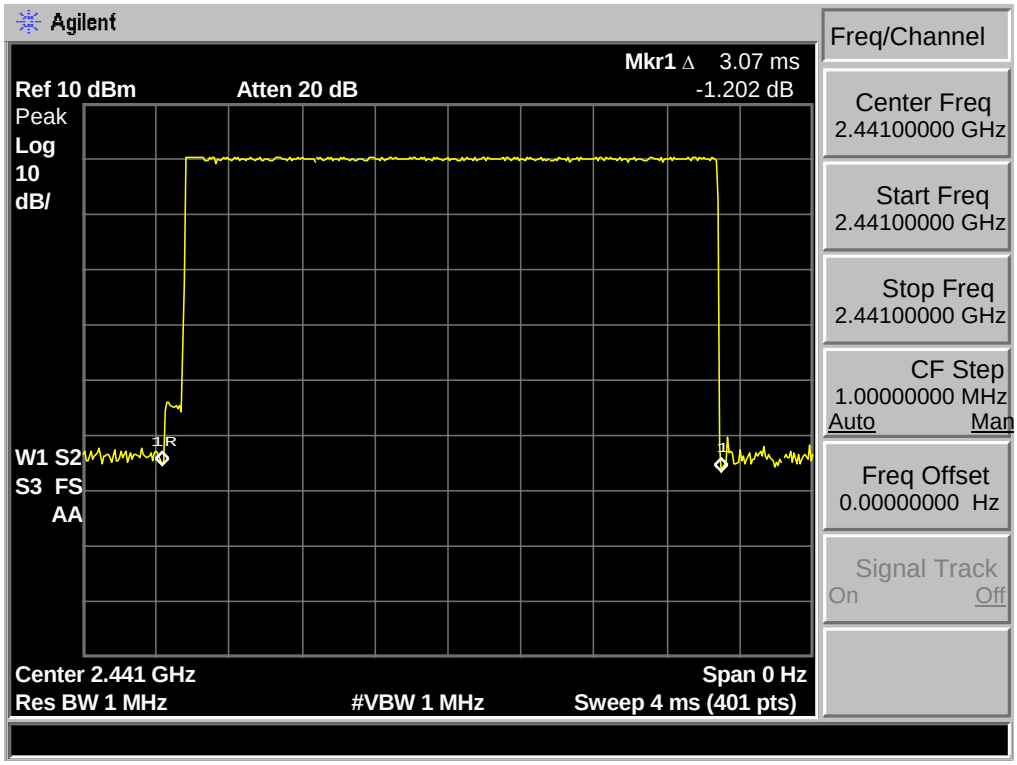
8-DPSK DH3: 25/5 * 0.4 *79 *1.80ms=284.40





8-DPSK DH5: 17/5 * 0.4 *79 *3.07ms=329.84





8. RADIATED EMISSIONS

8.1. Limit

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.

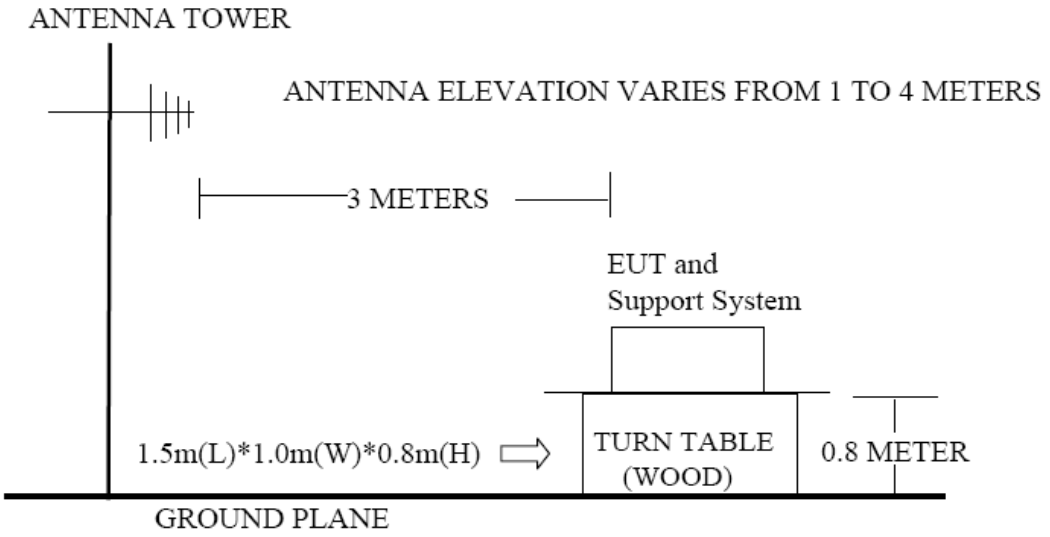
15.205 Restricted frequency band

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])

15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

8.2. Block Diagram of Test setup



8.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

8.4. Test Result

30MHz—26GHz Radiated emissison Test result
EUT: Baby bluetooth spaeker M/N:HT2009
Power:DC 3.7V
Test date: 2012-6-21~2012-06-22 Test site: 3m Chamber Tested by: Tony Tang
Test mode: Tx Mode
Pass

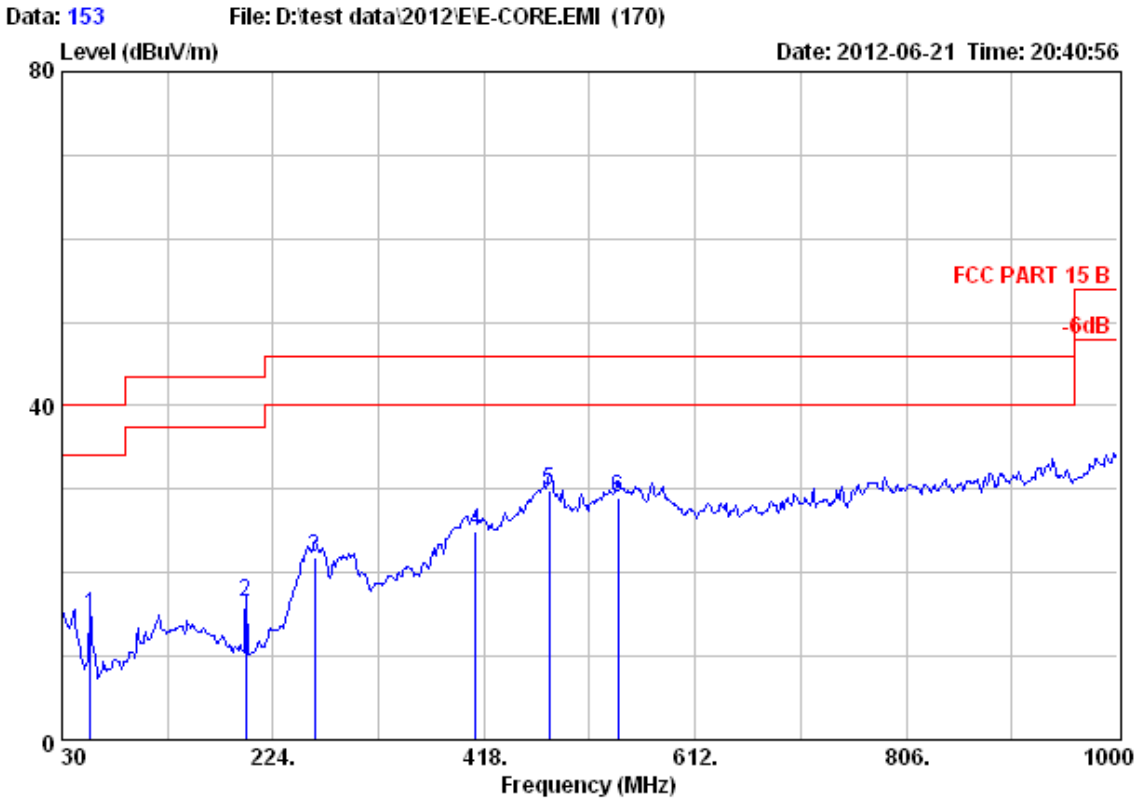
Note : If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

8.5. Test Data

30 MHz – 1000 MHz

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

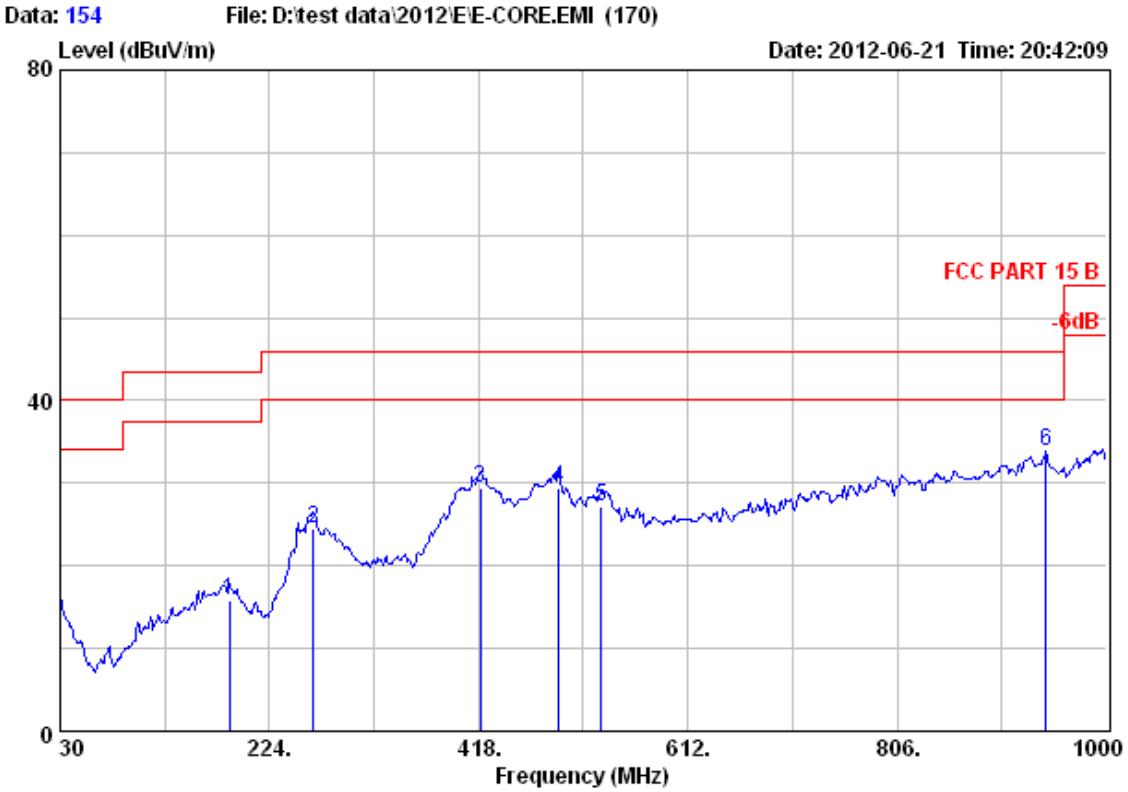


Site no. : 3m Chamber Data no. : 153
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	56.19	5.21	2.46	7.20	14.87	40.00	25.13	QP
2	198.78	7.71	4.24	4.51	16.46	43.50	27.04	QP
3	261.83	12.96	4.95	3.91	21.82	46.00	24.18	QP
4	410.24	16.29	6.10	2.48	24.87	46.00	21.13	QP
5	478.14	17.40	6.63	5.74	29.77	46.00	16.23	QP
6	541.19	19.46	7.00	2.43	28.89	46.00	17.11	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

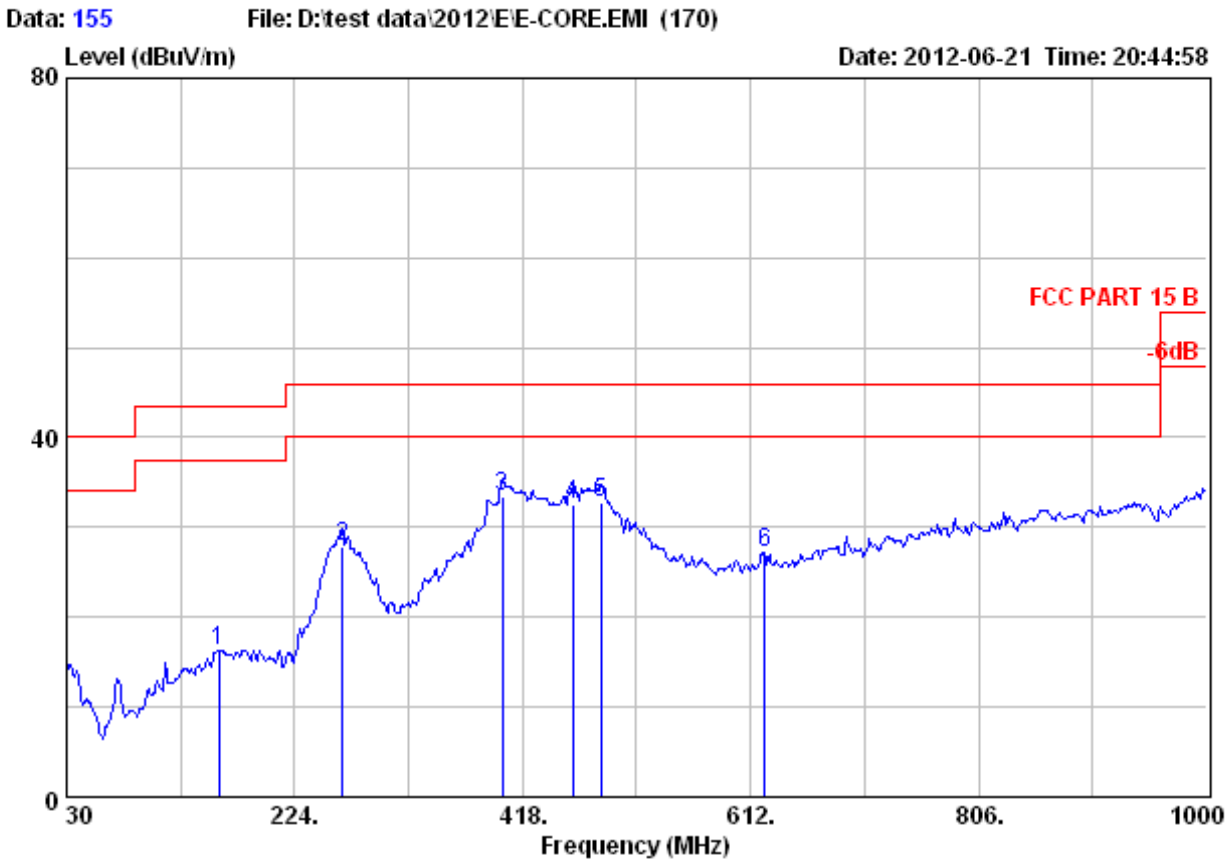


Site no. : 3m Chamber Data no. : 154
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	187.14	8.26	4.19	3.42	15.87	43.50	27.63	QP
2	264.74	12.94	4.97	6.61	24.52	46.00	21.48	QP
3	419.94	16.30	6.19	6.84	29.33	46.00	16.67	QP
4	492.69	17.83	6.69	4.99	29.51	46.00	16.49	QP
5	531.49	18.45	6.92	1.78	27.15	46.00	18.85	QP
6	943.74	24.64	9.21	0.05	33.90	46.00	12.10	QP

EST Technology

San Tun Management Zone,Houjie Town
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

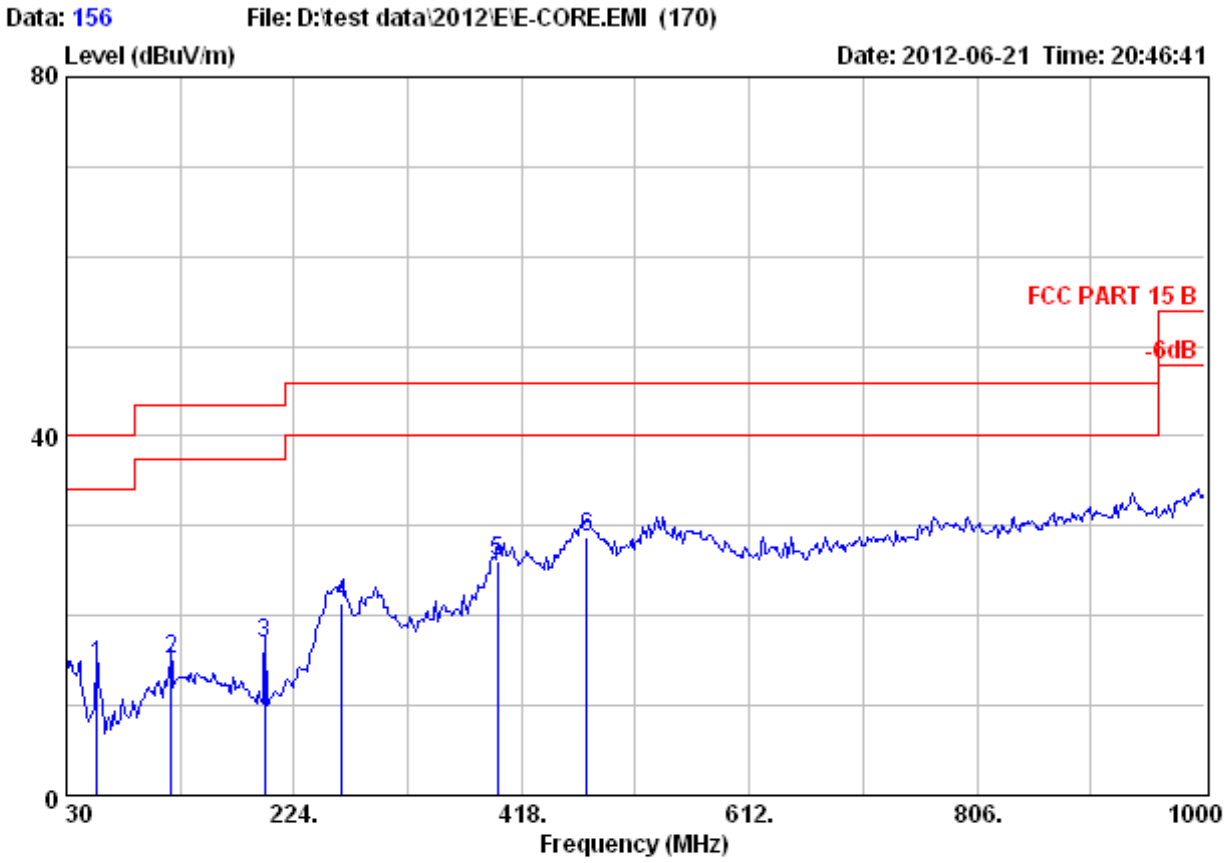


Site no. : 3m Chamber Data no. : 155
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	159.98	10.36	3.89	2.09	16.34	43.50	27.16	QP
2	264.74	12.94	4.97	9.99	27.90	46.00	18.10	QP
3	400.54	16.07	5.98	11.44	33.49	46.00	12.51	QP
4	460.68	16.87	6.46	9.19	32.52	46.00	13.48	QP
5	484.93	17.63	6.67	8.44	32.74	46.00	13.26	QP
6	623.64	20.08	7.53	-0.38	27.23	46.00	18.77	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

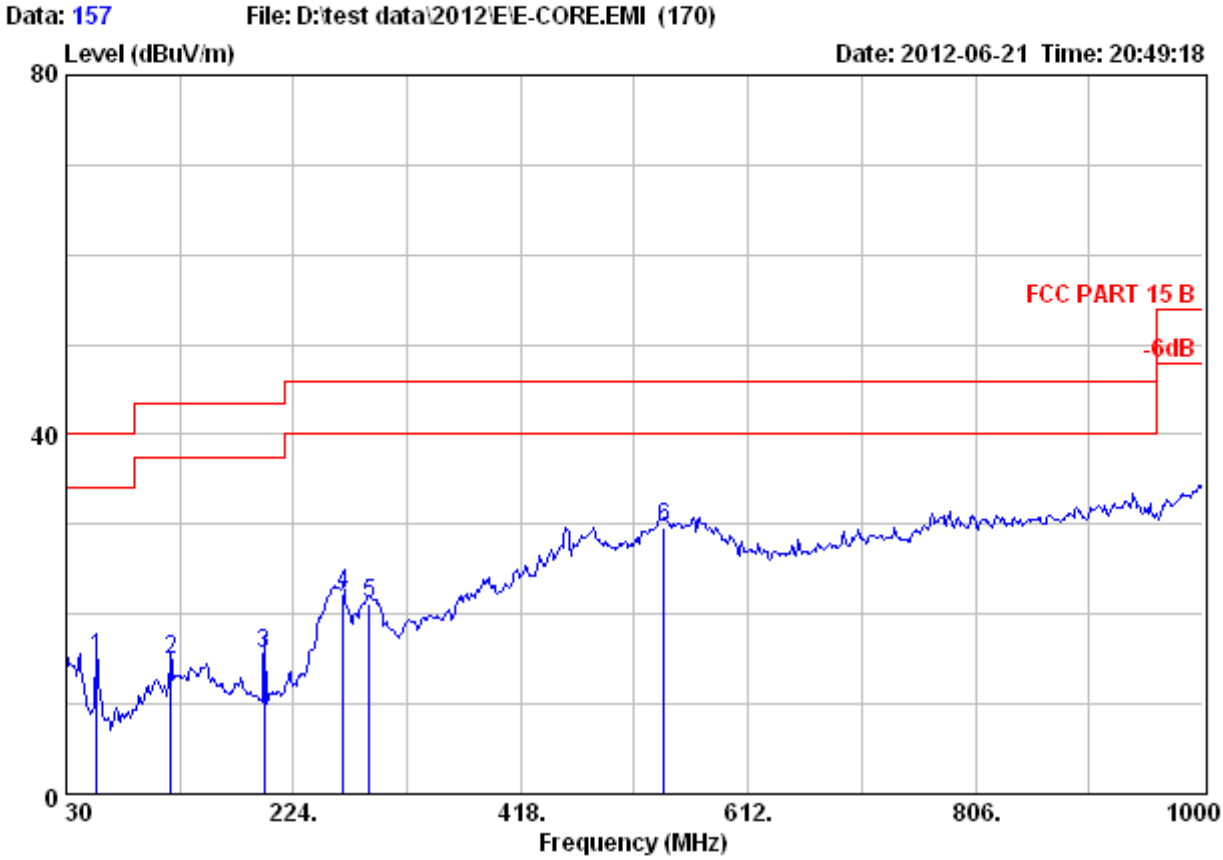


Site no. : 3m Chamber Data no. : 156
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	56.19	5.21	2.46	6.87	14.54	40.00	25.46	QP
2	119.24	11.11	3.34	0.71	15.16	43.50	28.34	QP
3	198.78	7.71	4.24	4.88	16.83	43.50	26.67	QP
4	264.74	12.94	4.97	3.43	21.34	46.00	24.66	QP
5	397.63	15.96	5.96	4.11	26.03	46.00	19.97	QP
6	473.29	17.28	6.59	4.87	28.74	46.00	17.26	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

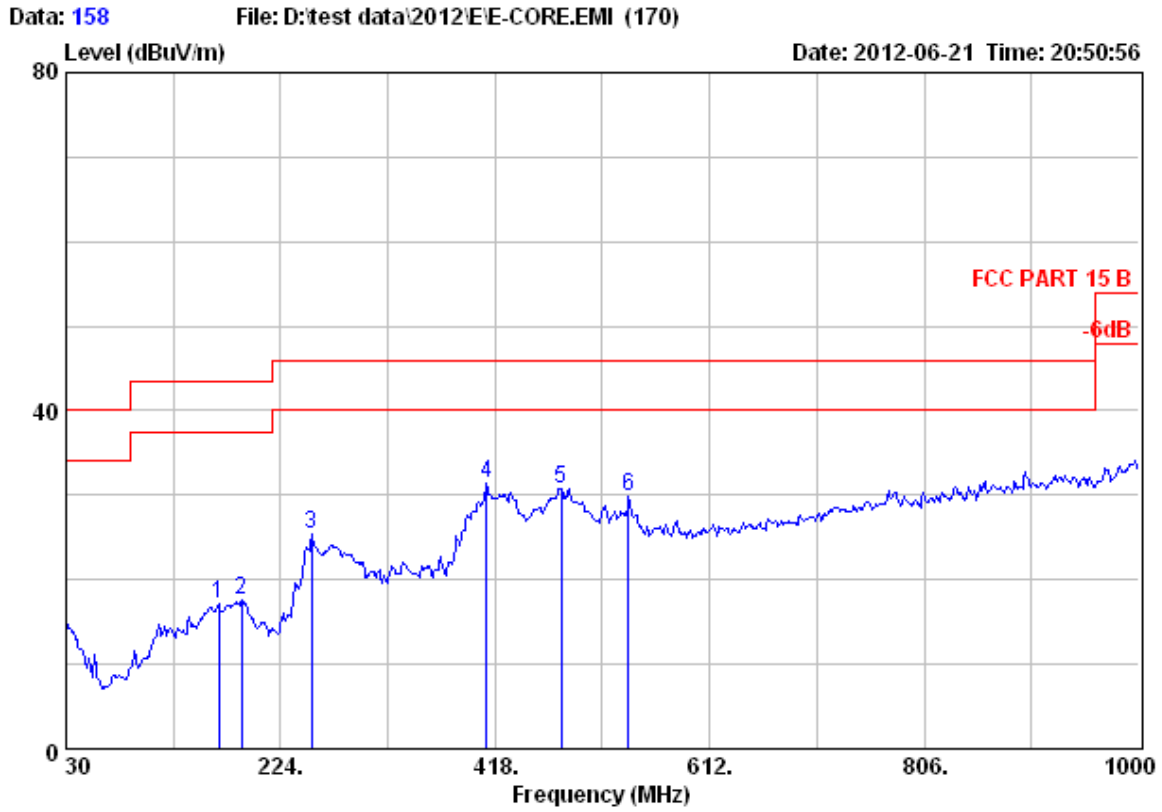


Site no. : 3m Chamber Data no. : 157
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	56.19	5.21	2.46	7.43	15.10	40.00	24.90	QP
2	119.24	11.11	3.34	0.38	14.83	43.50	28.67	QP
3	198.78	7.71	4.24	3.61	15.56	43.50	27.94	QP
4	266.68	12.79	5.00	4.53	22.32	46.00	23.68	QP
5	288.99	12.70	5.16	3.27	21.13	46.00	24.87	QP
6	540.22	19.46	6.99	3.29	29.74	46.00	16.26	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

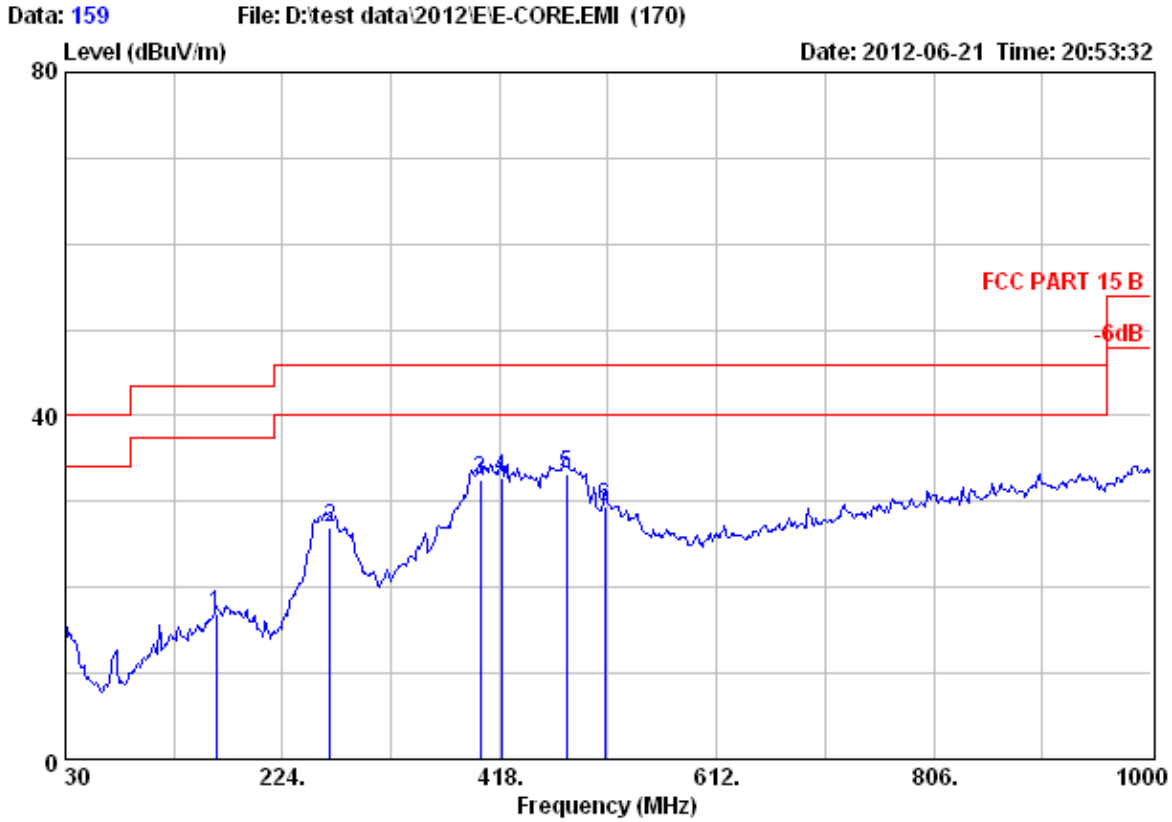


Site no. : 3m Chamber Data no. : 158
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark
1	167.74	9.43	3.97	3.70	17.10	43.50	26.40	QP
2	189.08	8.05	4.20	5.32	17.57	43.50	25.93	QP
3	252.13	12.06	4.82	8.55	25.43	46.00	20.57	QP
4	410.24	16.29	6.10	9.05	31.44	46.00	14.56	QP
5	478.14	17.40	6.63	6.74	30.77	46.00	15.23	QP
6	538.28	19.24	6.97	3.64	29.85	46.00	16.15	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

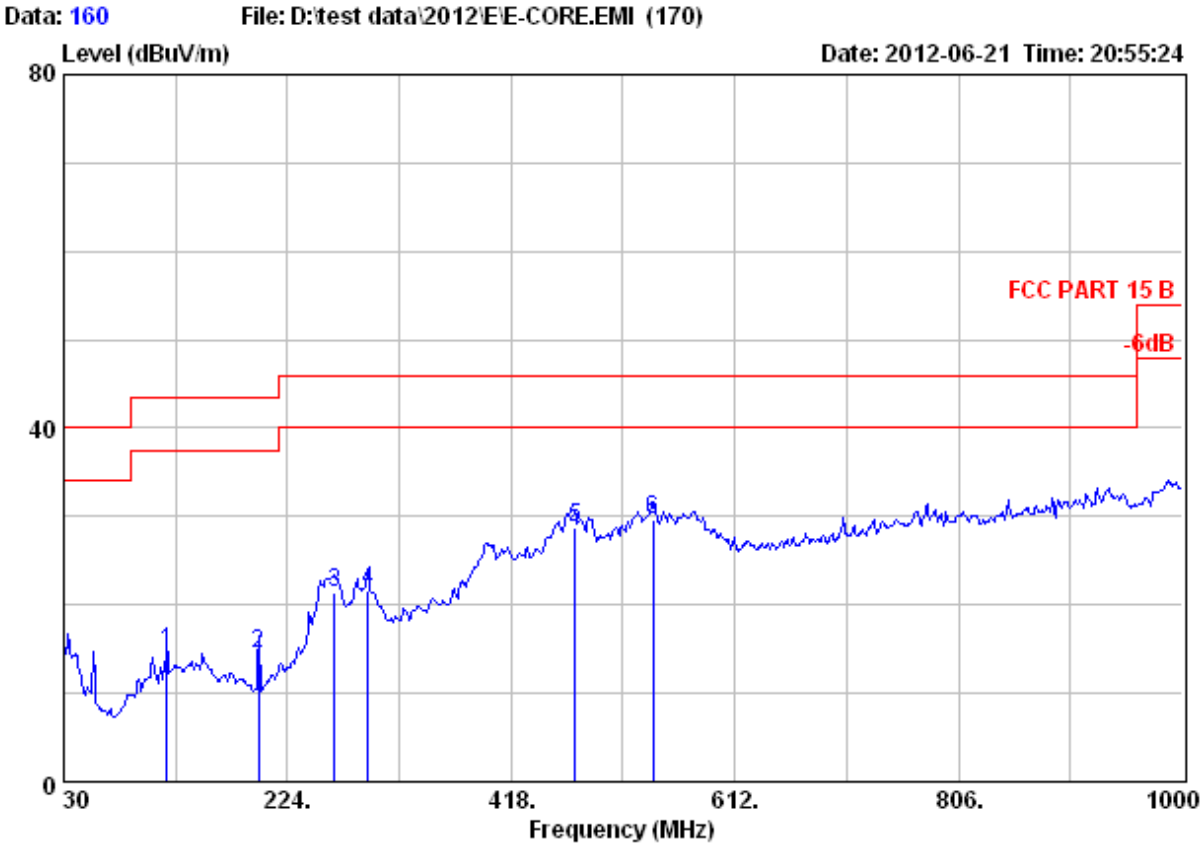


Site no. : 3m Chamber Data no. : 159
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark
1	164.83	9.77	3.94	3.20	16.91	43.50	26.59	QP
2	266.68	12.79	5.00	9.06	26.85	46.00	19.15	QP
3	400.54	16.07	5.98	10.49	32.54	46.00	13.46	QP
4	419.94	16.30	6.19	10.35	32.84	46.00	13.16	QP
5	478.14	17.40	6.63	9.11	33.14	46.00	12.86	QP
6	512.09	17.94	6.81	4.65	29.40	46.00	16.60	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

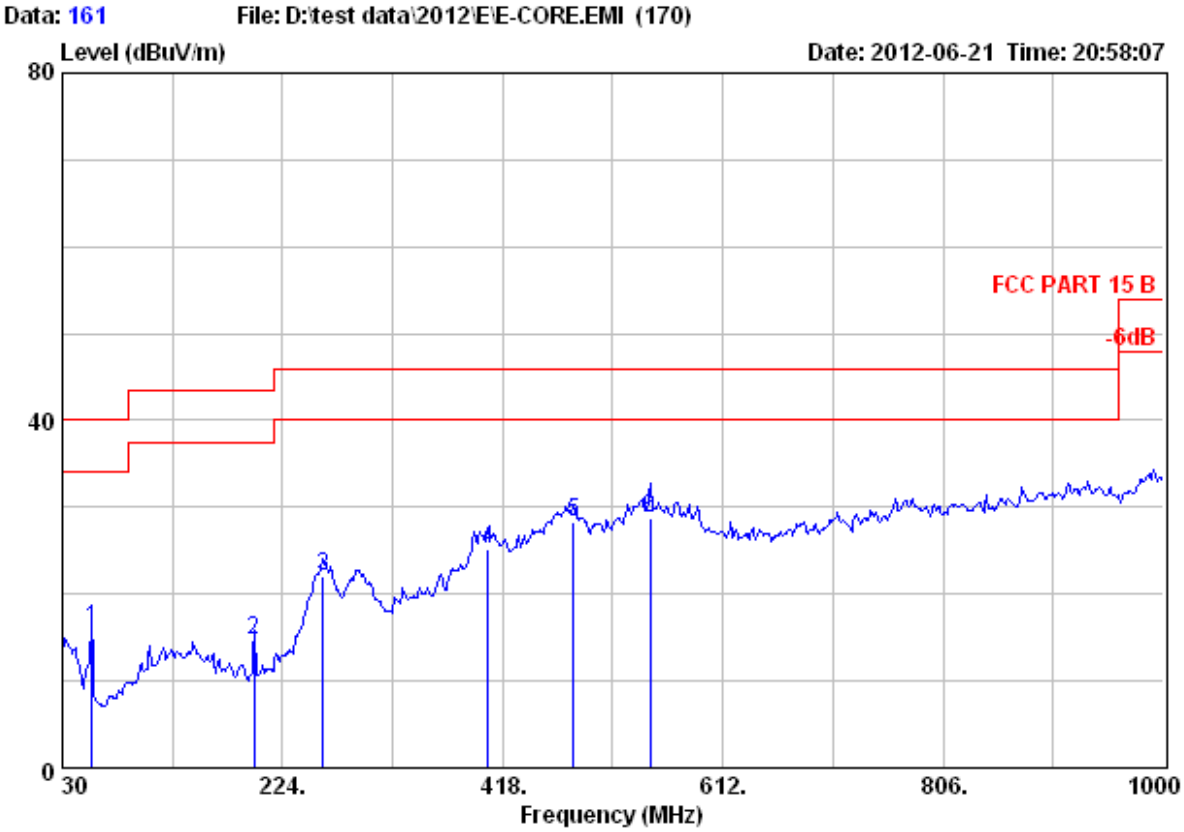


Site no. : 3m Chamber Data no. : 160
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark
1	119.24	11.11	3.34	0.24	14.69	43.50	28.81	QP
2	198.78	7.71	4.24	2.57	14.52	43.50	28.98	QP
3	264.74	12.94	4.97	3.42	21.33	46.00	24.67	QP
4	293.84	12.92	5.21	3.44	21.57	46.00	24.43	QP
5	473.29	17.28	6.59	4.78	28.65	46.00	17.35	QP
6	541.19	19.46	7.00	3.26	29.72	46.00	16.28	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

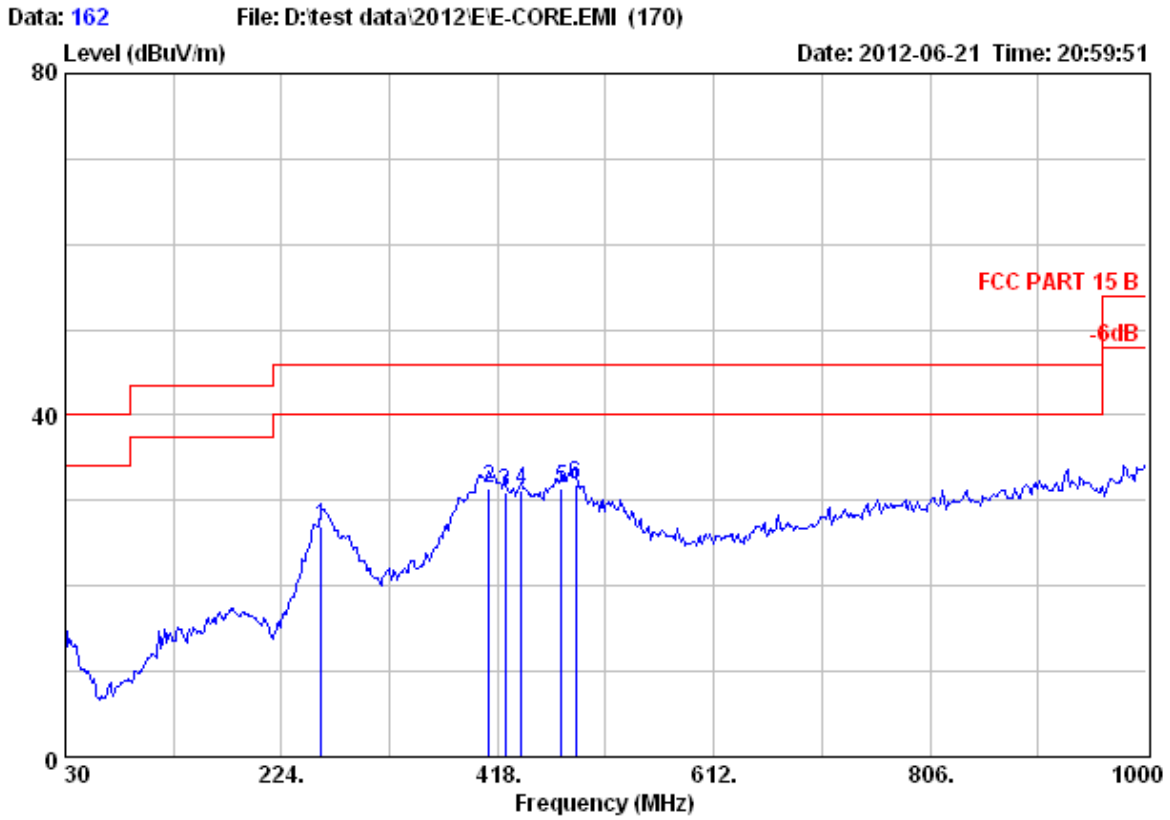


Site no. : 3m Chamber Data no. : 161
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	56.19	5.21	2.46	8.41	16.08	40.00	23.92	QP
2	198.78	7.71	4.24	2.80	14.75	43.50	28.75	QP
3	259.89	12.97	4.93	4.17	22.07	46.00	23.93	QP
4	405.39	16.18	6.05	3.02	25.25	46.00	20.75	QP
5	480.08	17.45	6.60	4.25	28.30	46.00	17.70	QP
6	547.98	19.45	7.04	2.16	28.65	46.00	17.35	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

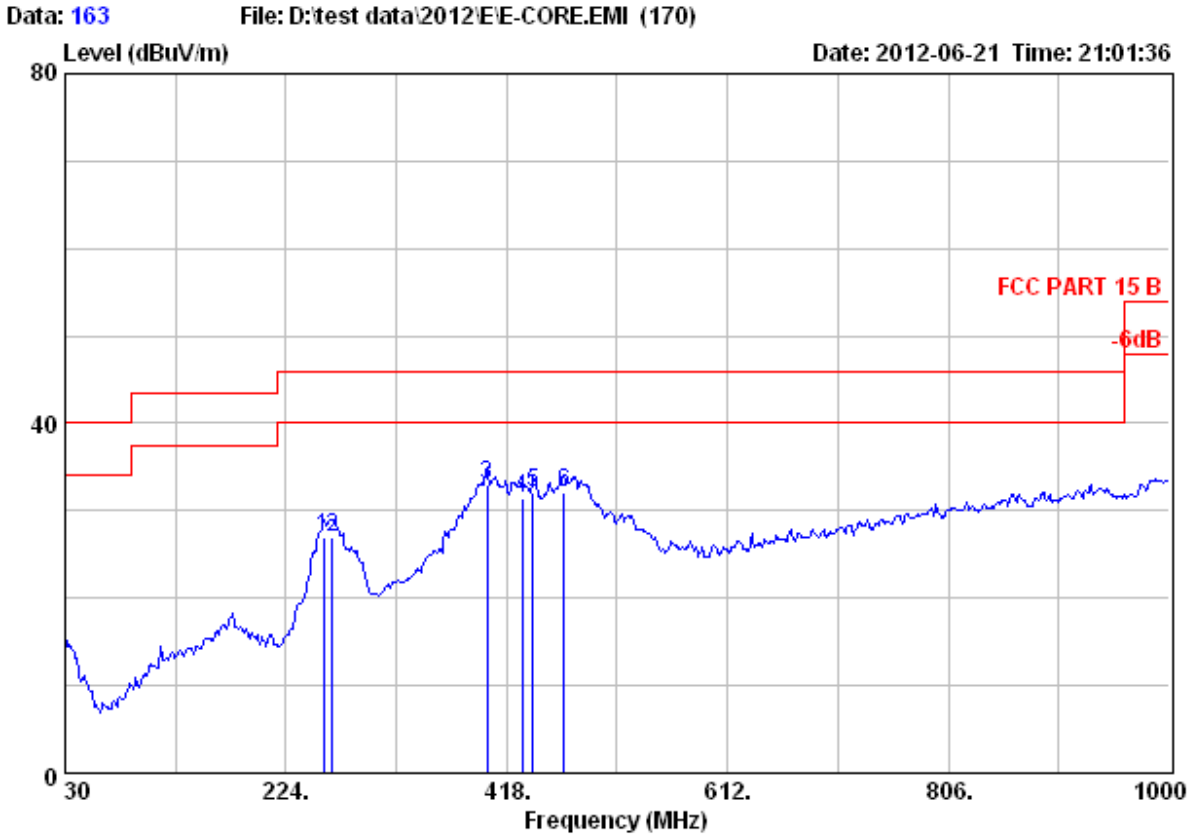


Site no. : 3m Chamber Data no. : 162
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	259.89	12.97	4.93	9.17	27.07	46.00	18.93	QP
2	410.24	16.29	6.10	9.13	31.52	46.00	14.48	QP
3	424.79	16.18	6.24	8.51	30.93	46.00	15.07	QP
4	439.34	16.23	6.31	8.57	31.11	46.00	14.89	QP
5	475.23	17.33	6.61	7.41	31.35	46.00	14.65	QP
6	487.84	17.74	6.69	7.54	31.97	46.00	14.03	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

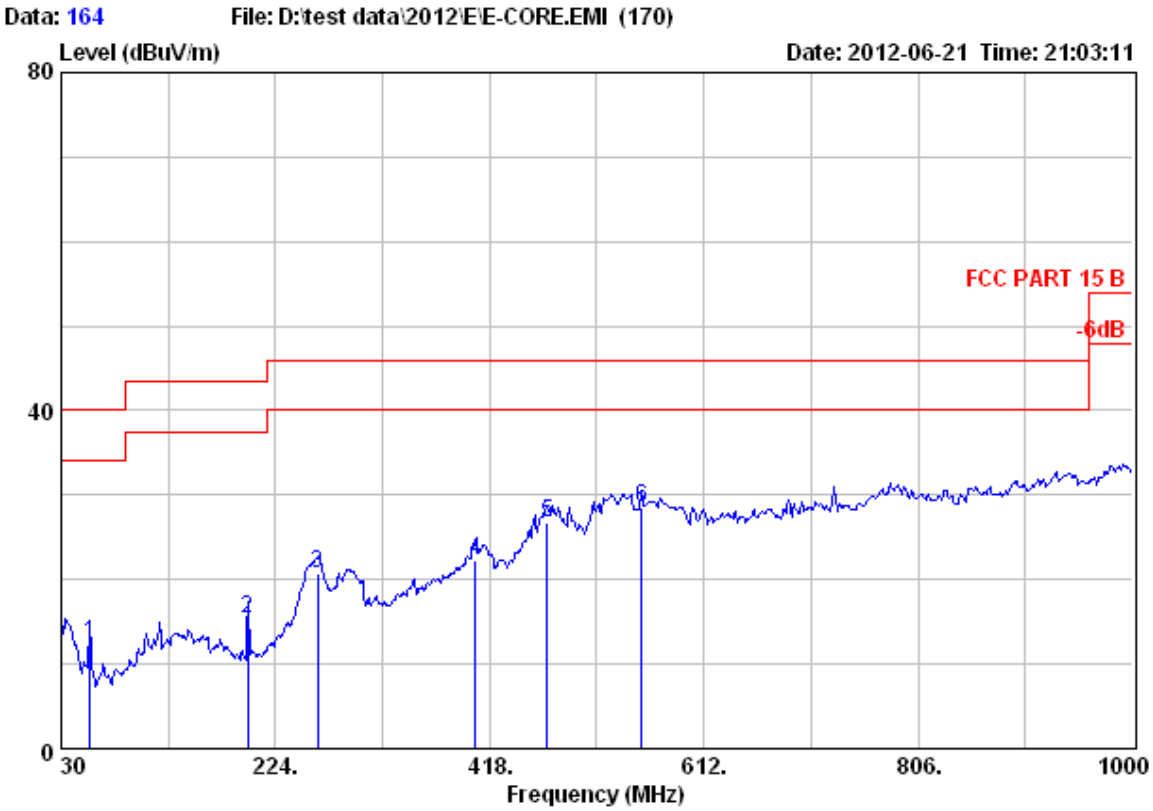


Site no. : 3m Chamber Data no. : 163
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	256.98	12.63	4.91	9.45	26.99	46.00	19.01	QP
2	264.74	12.94	4.97	9.09	27.00	46.00	19.00	QP
3	400.54	16.07	5.98	11.02	33.07	46.00	12.93	QP
4	431.58	16.09	6.26	9.12	31.47	46.00	14.53	QP
5	441.28	16.27	6.31	9.41	31.99	46.00	14.01	QP
6	468.44	17.14	6.54	8.51	32.19	46.00	13.81	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

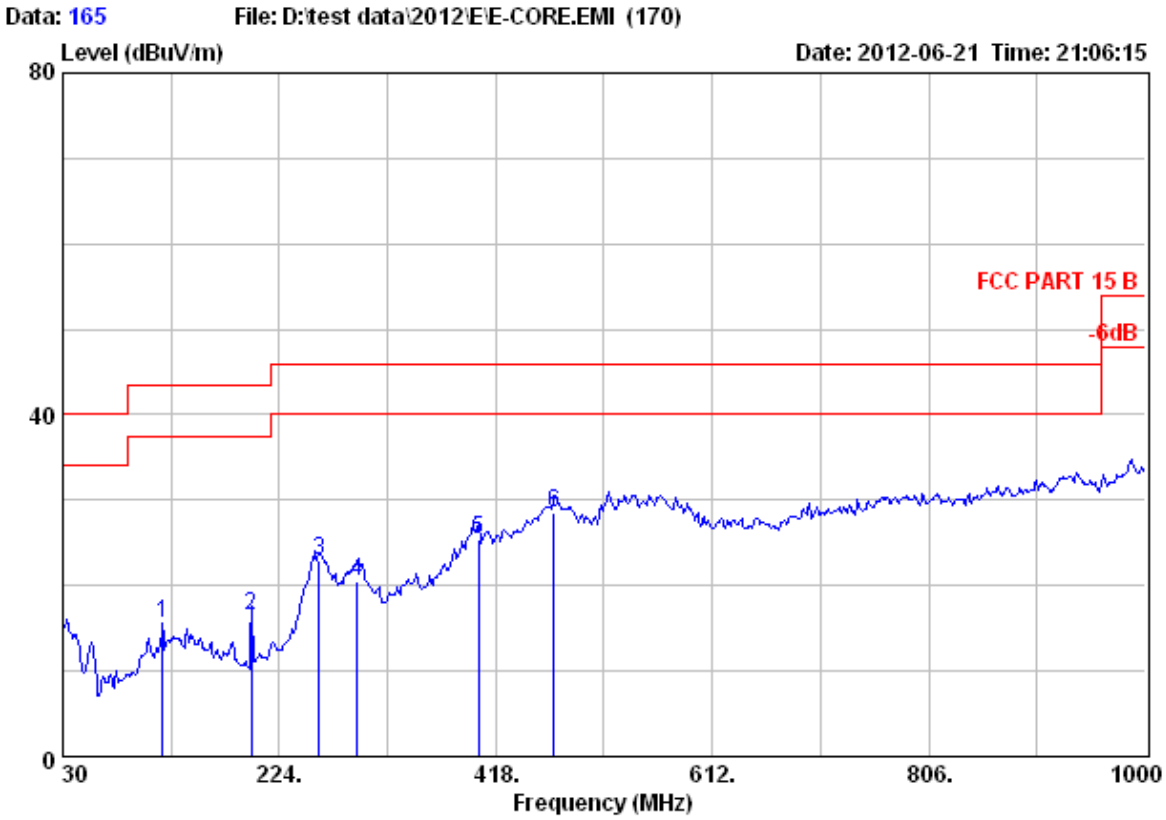


Site no. : 3m Chamber Data no. : 164
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	56.19	5.21	2.46	4.78	12.45	40.00	27.55	QP
2	198.78	7.71	4.24	3.51	15.46	43.50	28.04	QP
3	261.83	12.96	4.95	2.92	20.83	46.00	25.17	QP
4	405.39	16.18	6.05	0.05	22.28	46.00	23.72	QP
5	470.38	17.21	6.57	2.95	26.73	46.00	19.27	QP
6	555.74	19.61	7.08	1.85	28.54	46.00	17.46	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

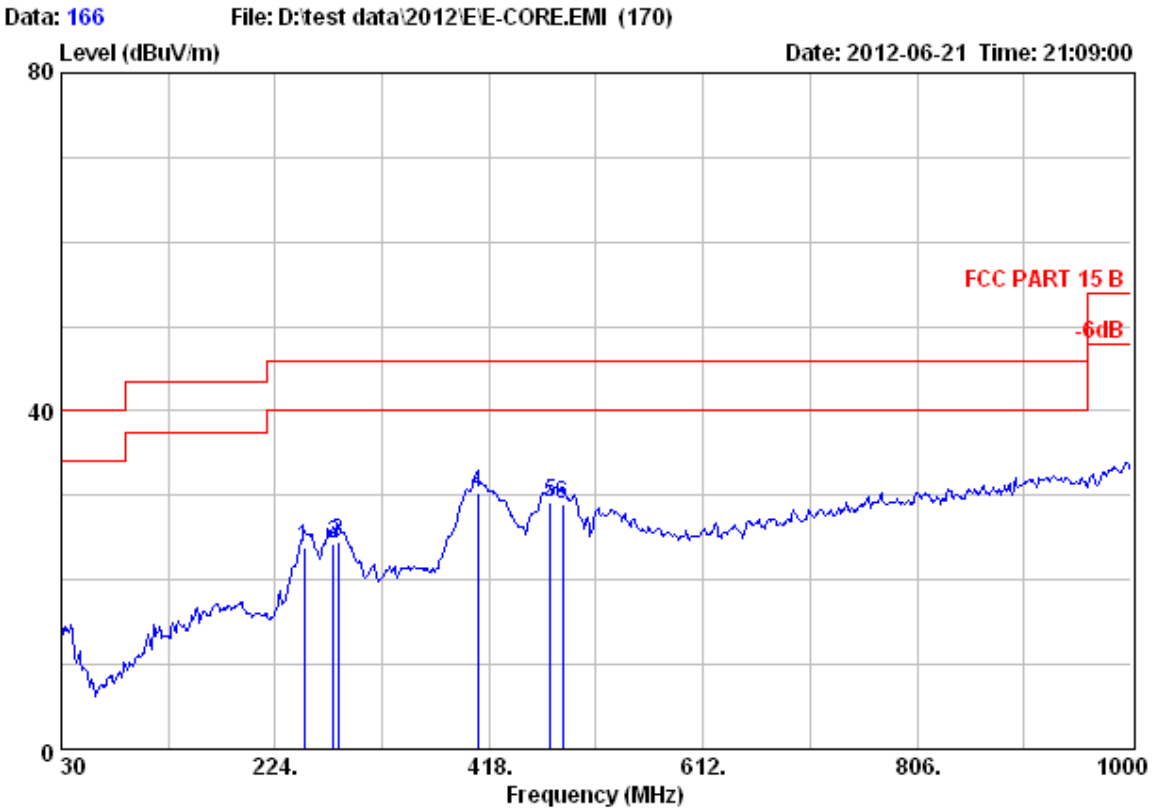


Site no. : 3m Chamber Data no. : 165
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	119.24	11.11	3.34	1.24	15.69	43.50	27.81	QP
2	198.78	7.71	4.24	4.62	16.57	43.50	26.93	QP
3	259.89	12.97	4.93	4.97	22.87	46.00	23.13	QP
4	293.84	12.92	5.21	2.43	20.56	46.00	25.44	QP
5	402.48	16.12	6.01	3.31	25.44	46.00	20.56	QP
6	470.38	17.21	6.57	4.72	28.50	46.00	17.50	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

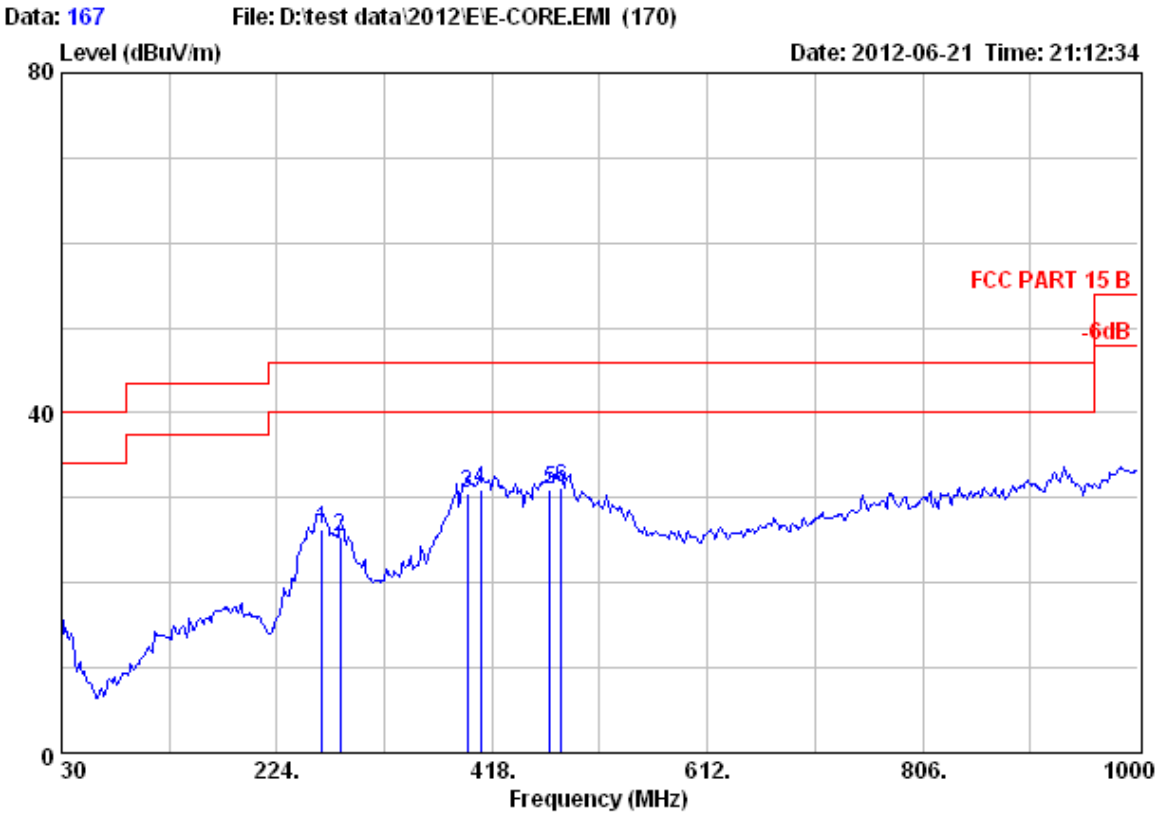


Site no. : 3m Chamber Data no. : 166
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	250.19	11.82	4.84	7.26	23.92	46.00	22.08	QP
2	276.38	12.36	5.04	6.85	24.25	46.00	21.75	QP
3	281.23	12.41	5.09	7.05	24.55	46.00	21.45	QP
4	407.33	16.22	6.08	7.96	30.26	46.00	15.74	QP
5	473.29	17.28	6.59	5.34	29.21	46.00	16.79	QP
6	484.93	17.63	6.67	4.56	28.86	46.00	17.14	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

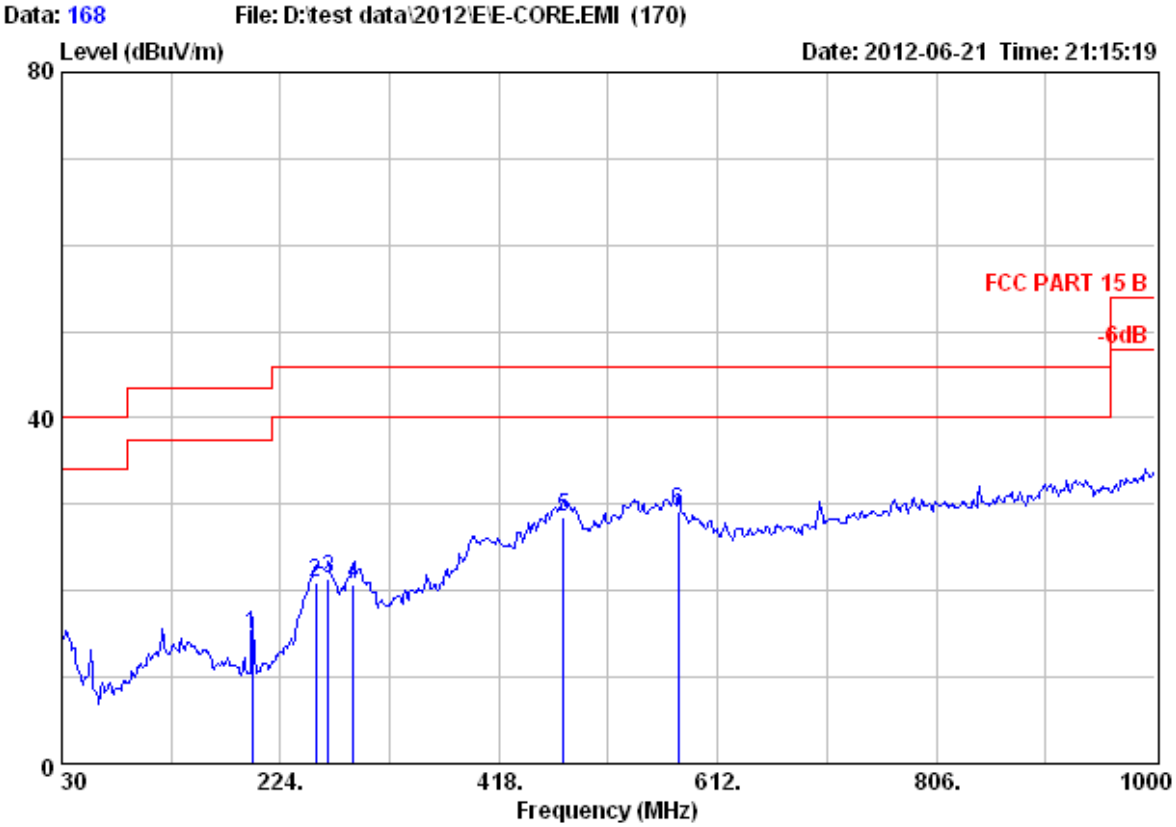


Site no. : 3m Chamber Data no. : 167
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	264.74	12.94	4.97	8.49	26.40	46.00	19.60	QP
2	281.23	12.41	5.09	7.83	25.33	46.00	20.67	QP
3	395.69	15.87	5.93	8.74	30.54	46.00	15.46	QP
4	407.33	16.22	6.08	8.59	30.89	46.00	15.11	QP
5	470.38	17.21	6.57	7.13	30.91	46.00	15.09	QP
6	480.08	17.45	6.60	7.07	31.12	46.00	14.88	QP

EST Technology

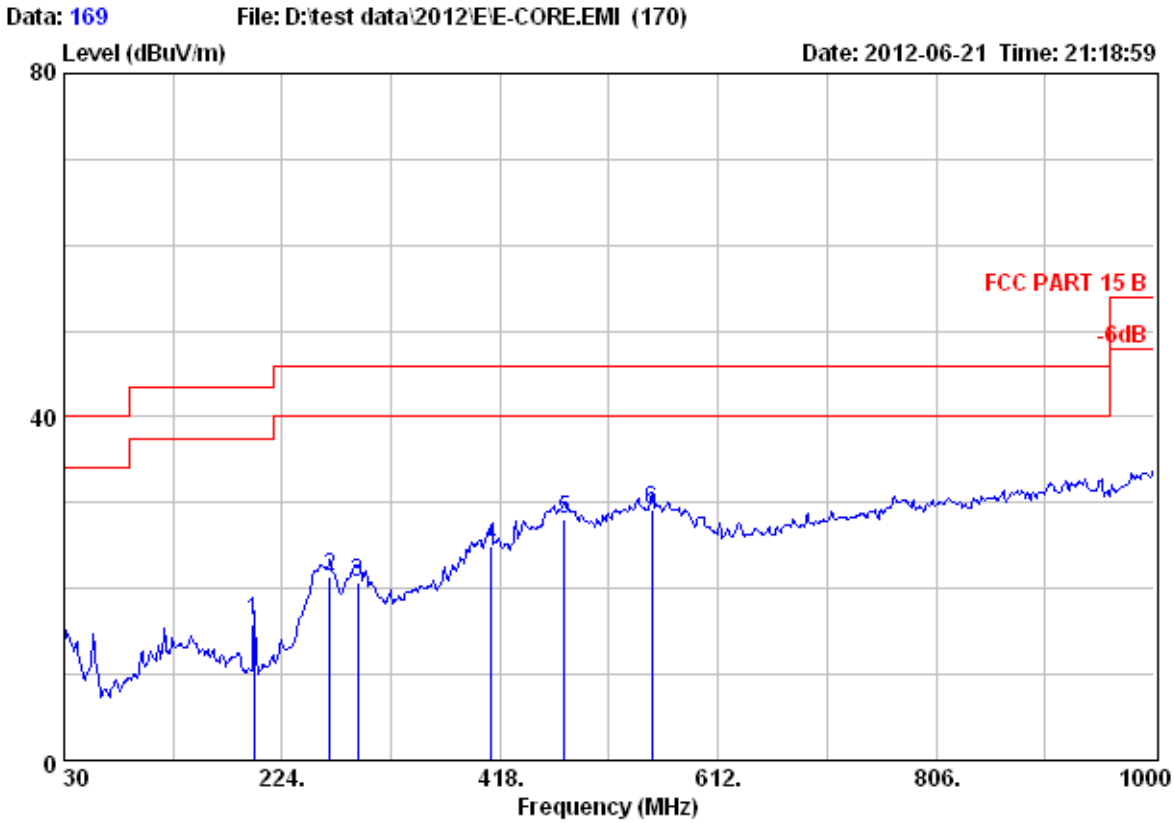
San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878




```
Site no.      : 3m Chamber                  Data no. : 168
Dis. / Ant.   : 3m   27137                  Ant. pol. : VERTICAL
Limit         : FCC PART 15 B
Env. / Ins.   : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Baby bluetooth speaker
Power         : DC 3.7V
M/N           : HT2009
Test Mode     : 8-DPSK TX 2441MHz
```

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878

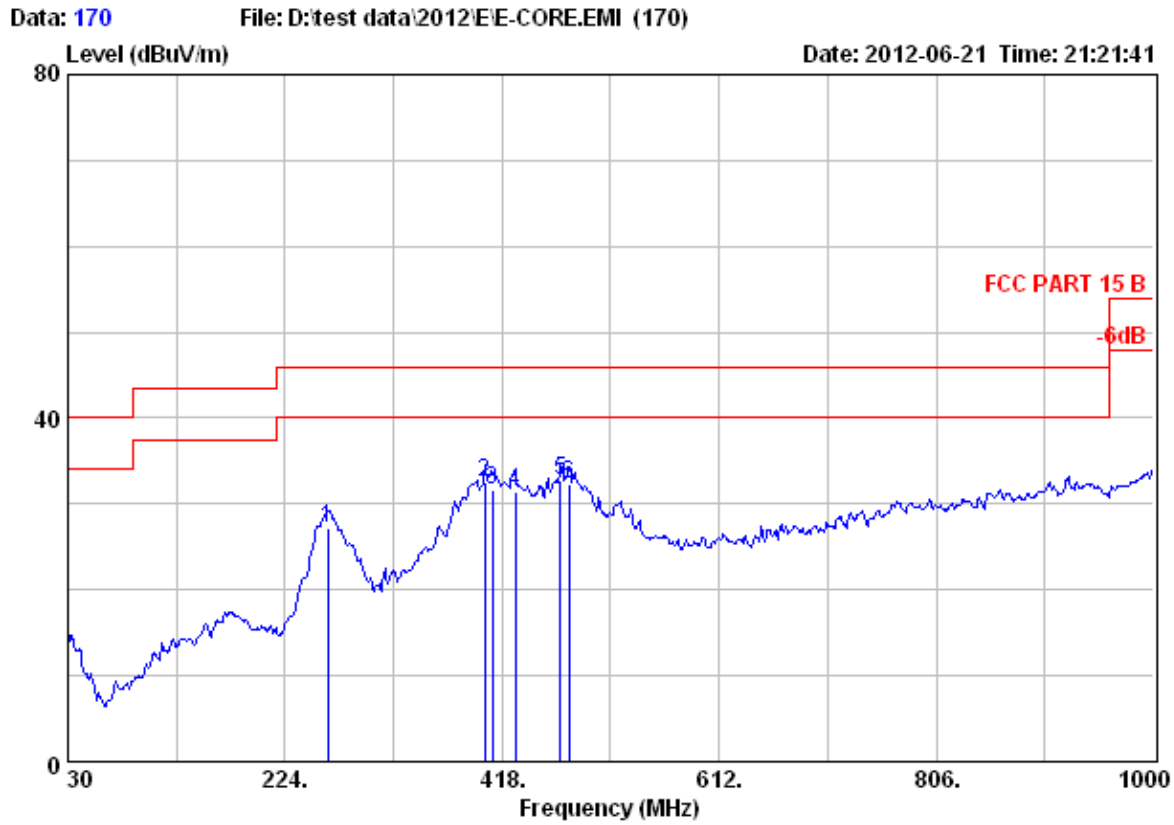


Site no. : 3m Chamber Data no. : 169
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	198.78	7.71	4.24	4.43	16.38	43.50	27.12	QP
2	266.68	12.79	5.00	3.71	21.50	46.00	24.50	QP
3	290.93	12.78	5.17	2.80	20.75	46.00	25.25	QP
4	410.24	16.29	6.10	2.47	24.86	46.00	21.14	QP
5	475.23	17.33	6.61	4.17	28.11	46.00	17.89	QP
6	552.83	19.53	7.07	2.59	29.19	46.00	16.81	QP

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



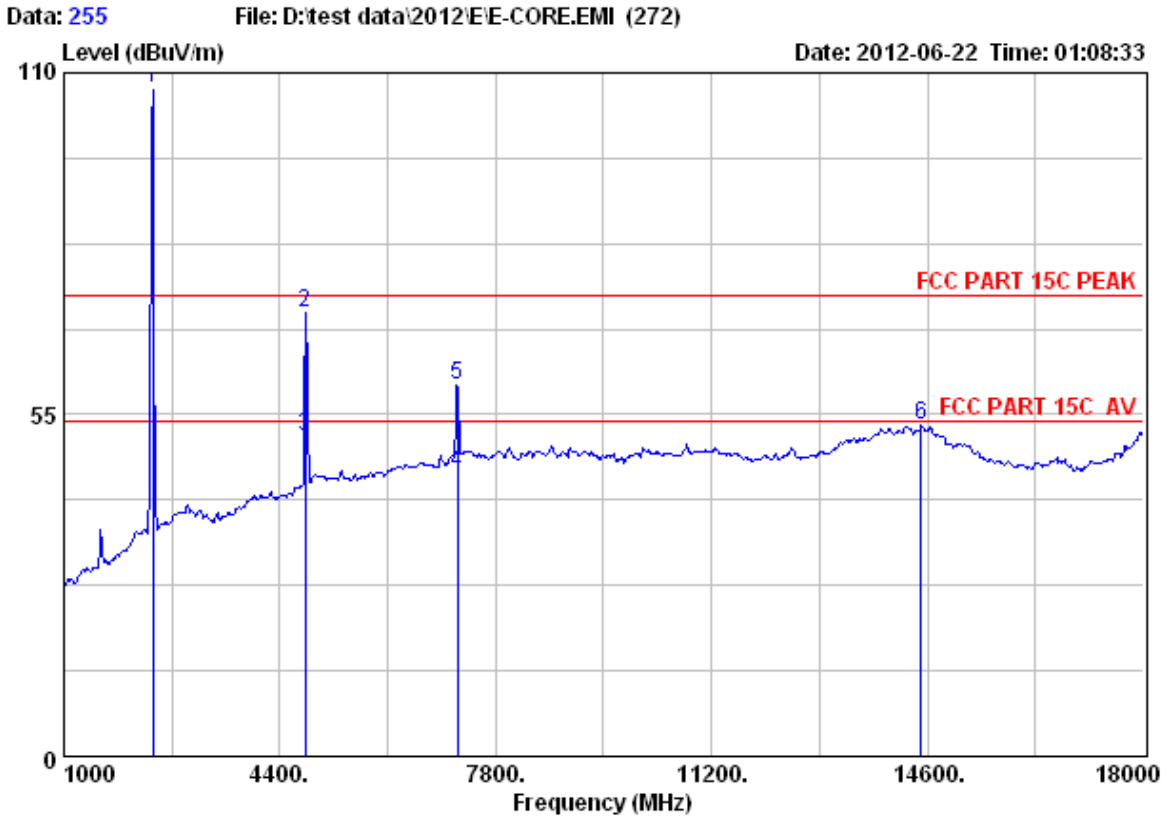
Site no. : 3m Chamber Data no. : 170
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	261.83	12.96	4.95	9.33	27.24	46.00	18.76	QP
2	402.48	16.12	6.01	10.50	32.63	46.00	13.37	QP
3	409.27	16.27	6.09	9.21	31.57	46.00	14.43	QP
4	429.64	16.06	6.25	9.18	31.49	46.00	14.51	QP
5	470.38	17.21	6.57	8.88	32.66	46.00	13.34	QP
6	478.14	17.40	6.63	8.23	32.26	46.00	13.74	QP

1000 MHz – 18000MHz

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



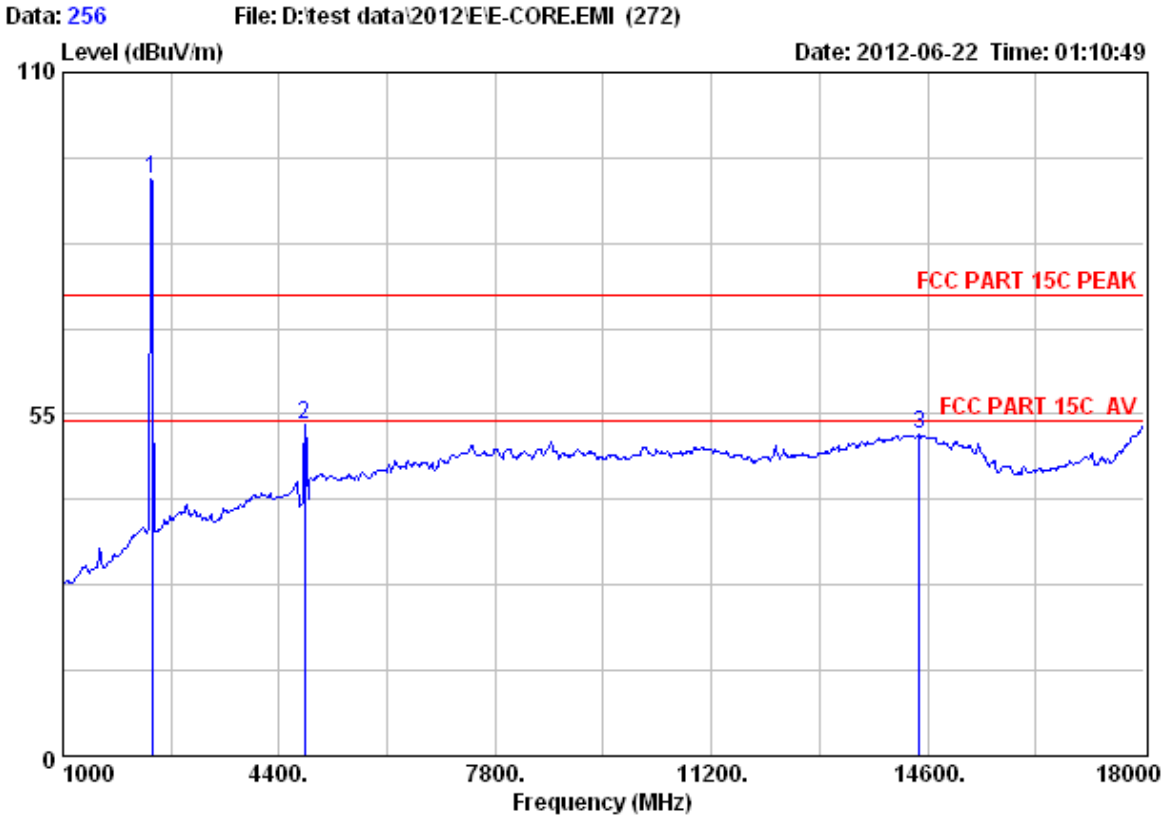

```
Site no.      : 3m Chamber                  Data no. : 255
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Baby bluetooth speaker
Power         : DC 3.7V
M/N           : HT2009
Test Mode     : GFSK TX 2402MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	35.18	108.37	107.42	74.00	-33.42	Peak
2	4804.00	31.25	11.77	34.50	62.82	71.34	74.00	2.66	Peak
3	4804.00	31.25	11.77	34.50	42.82	51.34	54.00	2.66	Average
4	7206.00	36.52	11.54	34.44	32.00	45.62	54.00	8.38	Average
5	7206.00	36.52	11.54	34.44	46.00	59.62	74.00	14.38	Peak
6	14498.00	41.88	10.93	35.45	35.88	53.24	74.00	20.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



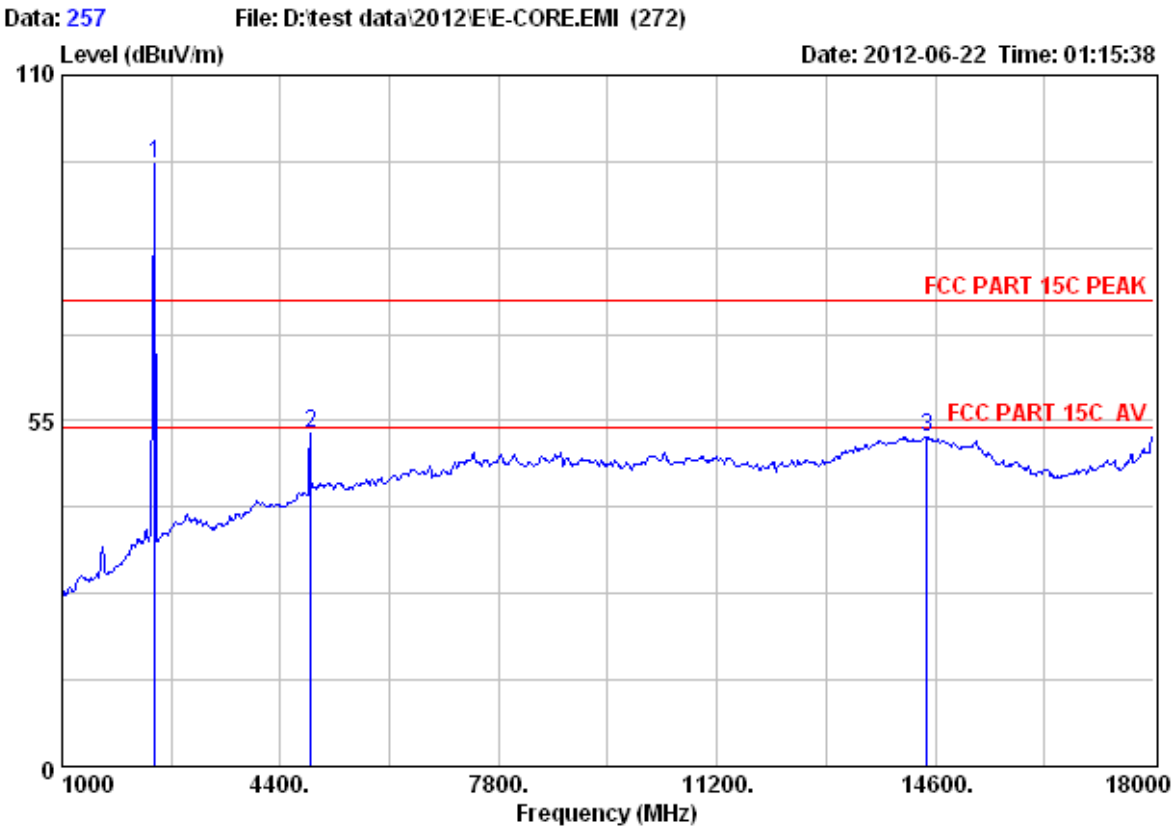
Site no. : 3m Chamber Data no. : 256
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	35.18	93.92	92.97	74.00	-18.97	Peak
2	4804.00	31.25	11.77	34.50	44.86	53.38	74.00	20.62	Peak
3	14464.00	41.85	10.93	35.46	34.42	51.74	74.00	22.26	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



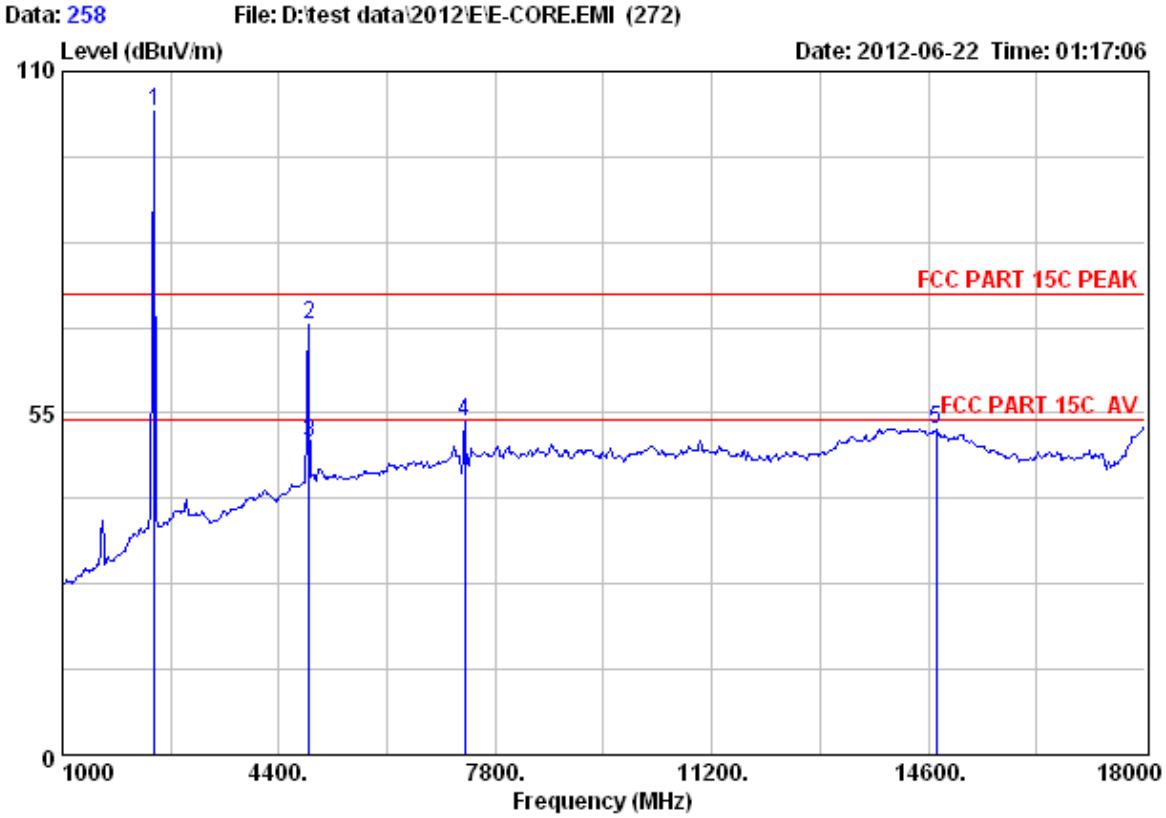
Site no. : 3m Chamber Data no. : 257
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	35.17	96.77	95.87	74.00	-21.87	Peak
2	4882.00	31.37	12.07	34.48	43.99	52.95	74.00	21.05	Peak
3	14464.00	41.85	10.93	35.46	35.18	52.50	74.00	21.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



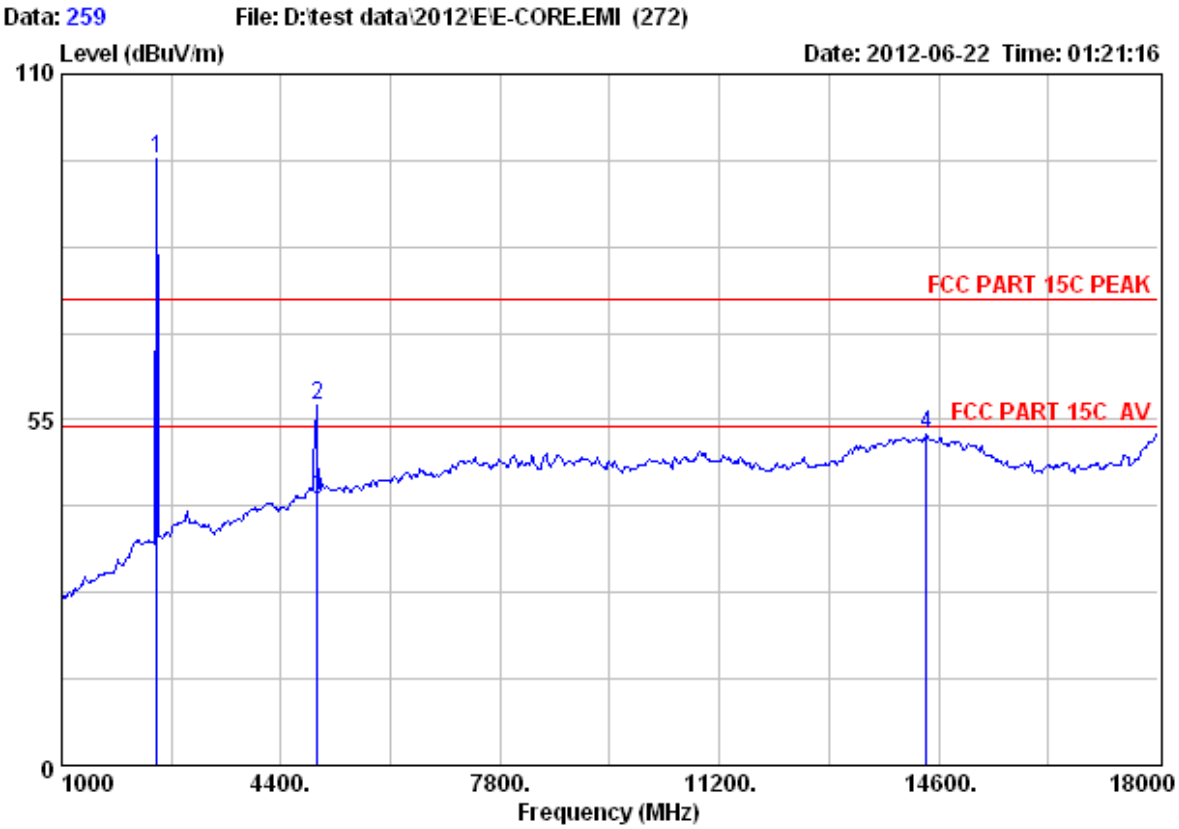
Site no. : 3m Chamber Data no. : 258
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	35.17	104.36	103.46	74.00	-29.46	Peak
2	4882.00	31.37	12.07	34.48	60.27	69.23	74.00	4.77	Peak
3	4882.00	31.37	12.07	34.48	41.27	50.23	54.00	3.77	Average
4	7323.00	36.55	11.57	34.47	39.94	53.59	74.00	20.41	Peak
5	14719.00	41.18	10.90	35.34	35.70	52.44	74.00	21.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



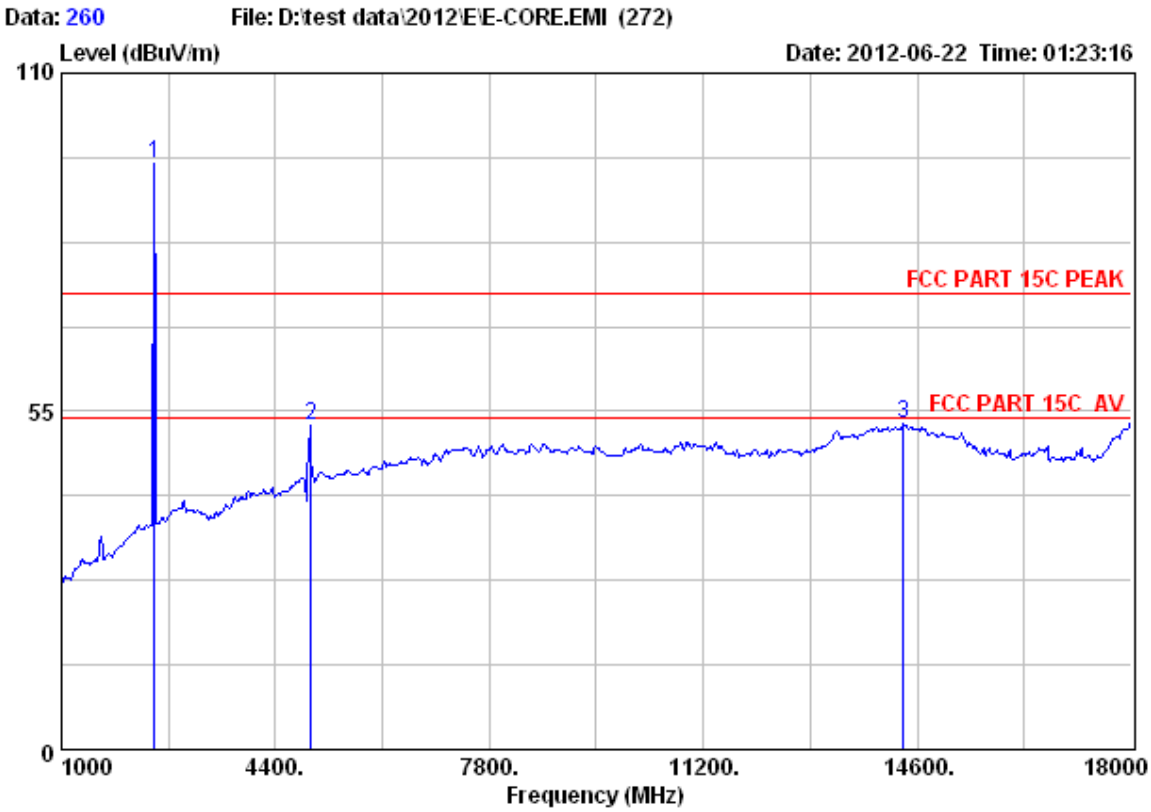
Site no. : 3m Chamber Data no. : 259
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.16	97.47	96.60	74.00	-22.60	Peak
2	4960.00	31.49	12.44	34.46	47.70	57.17	74.00	16.83	Peak
3	4960.00	31.49	12.44	34.46	32.70	42.17	54.00	11.83	Average
4	14413.00	41.80	10.92	35.49	35.59	52.82	74.00	21.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



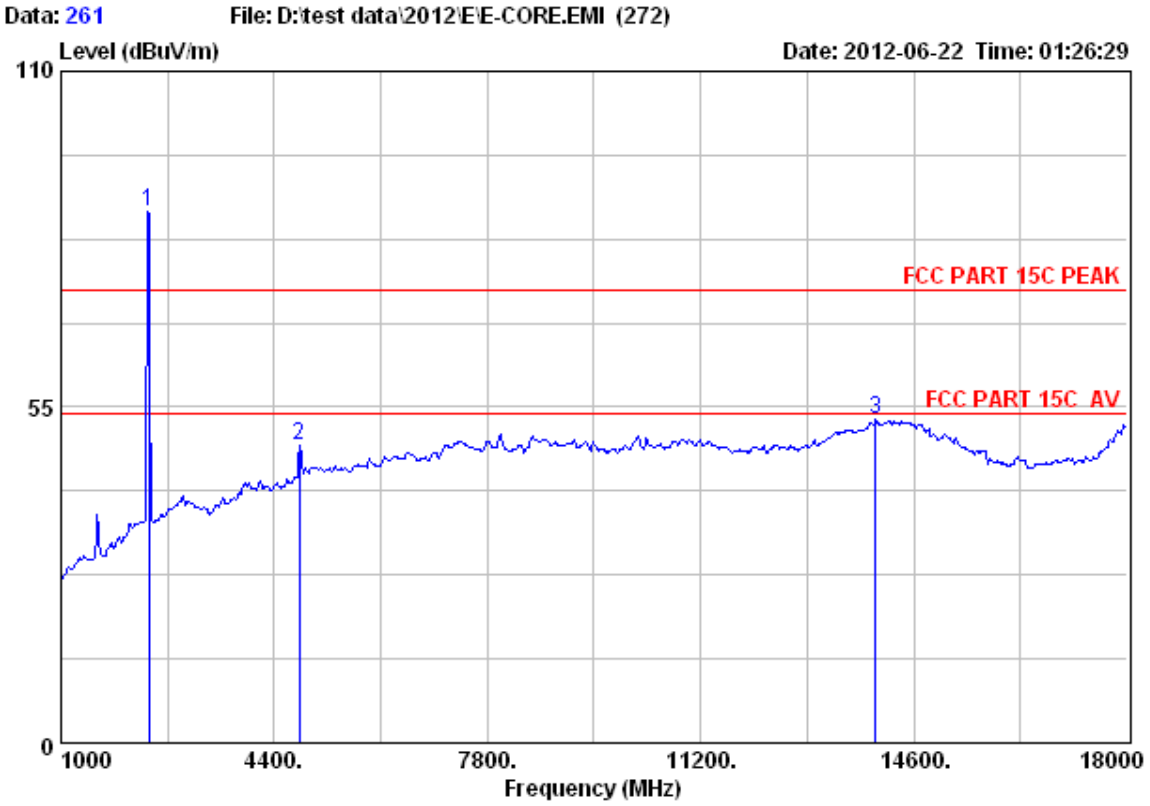
Site no. : 3m Chamber Data no. : 260
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.16	96.15	95.28	74.00	-21.28	Peak
2	4960.00	31.49	12.44	34.46	43.32	52.79	74.00	21.21	Peak
3	14379.00	41.77	10.92	35.51	35.70	52.88	74.00	21.12	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



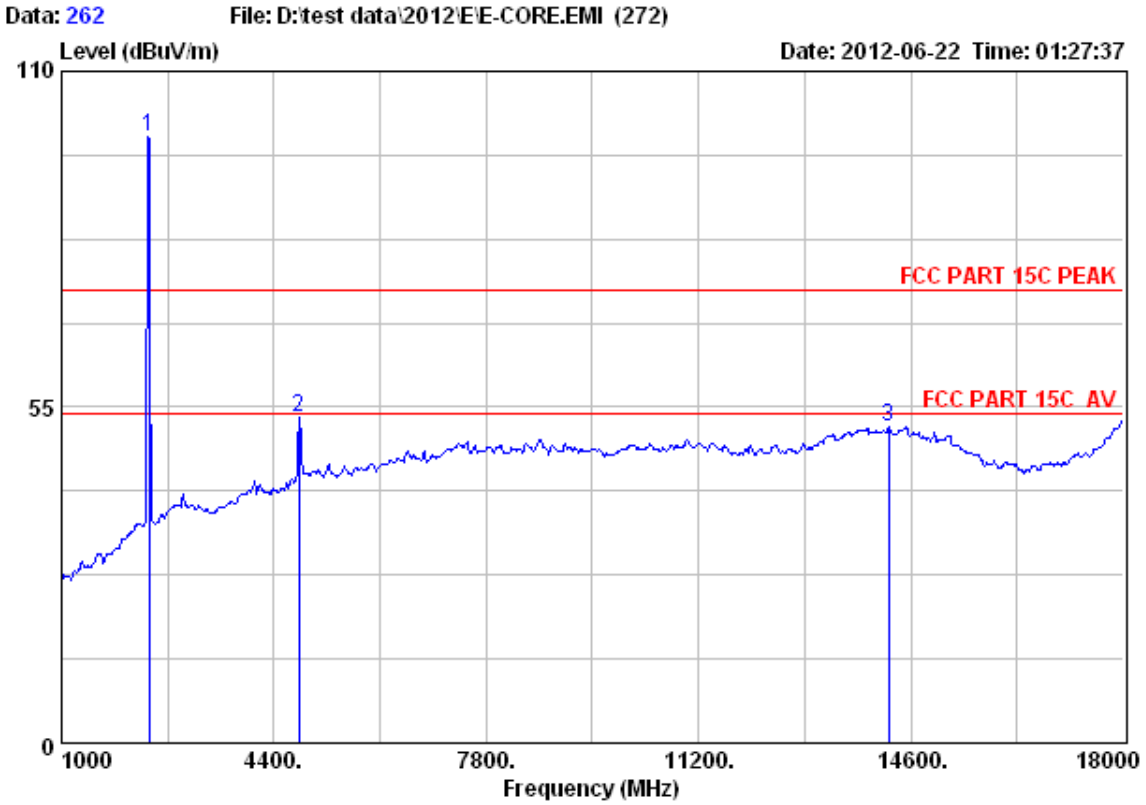
Site no. : 3m Chamber Data no. : 261
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	35.18	87.86	86.91	74.00	-12.91	Peak
2	4804.00	31.25	11.77	34.50	40.16	48.68	74.00	25.32	Peak
3	13988.00	41.45	10.92	35.70	36.25	52.92	74.00	21.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



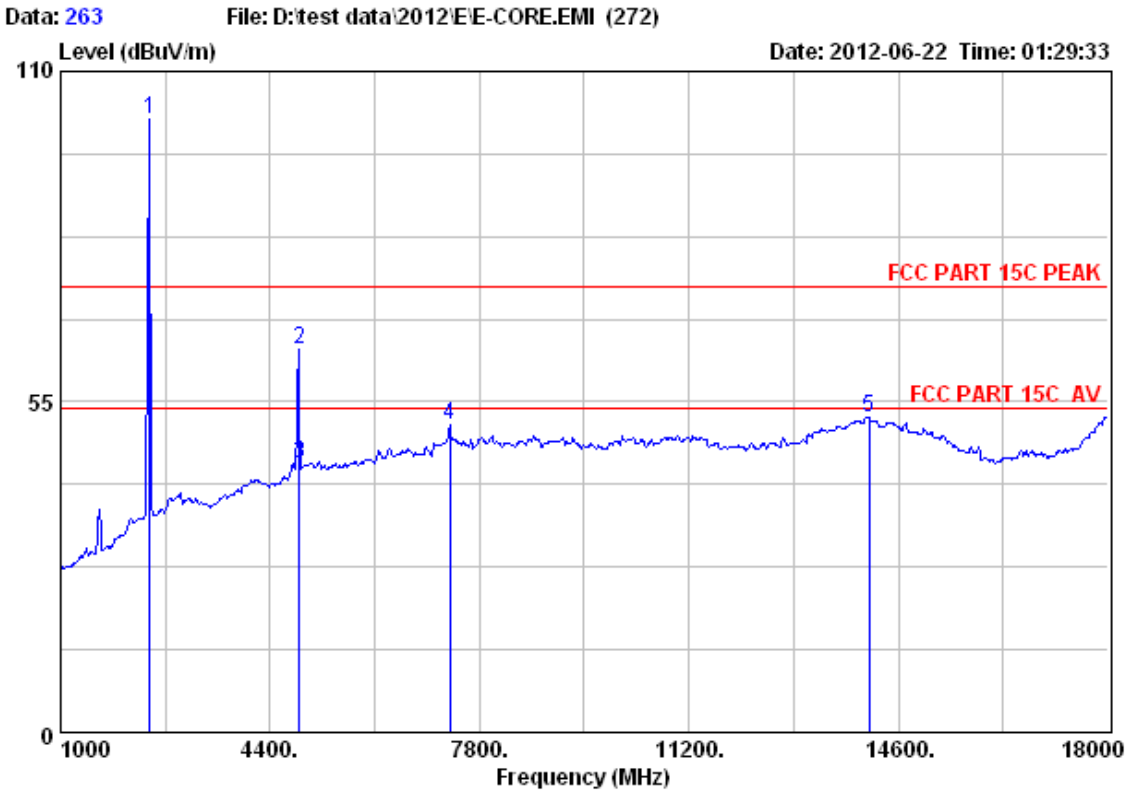
Site no. : 3m Chamber Data no. : 262
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	35.18	100.20	99.25	74.00	-25.25	Peak
2	4804.00	31.25	11.77	34.50	44.65	53.17	74.00	20.83	Peak
3	14243.00	41.67	10.91	35.58	34.67	51.67	74.00	22.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



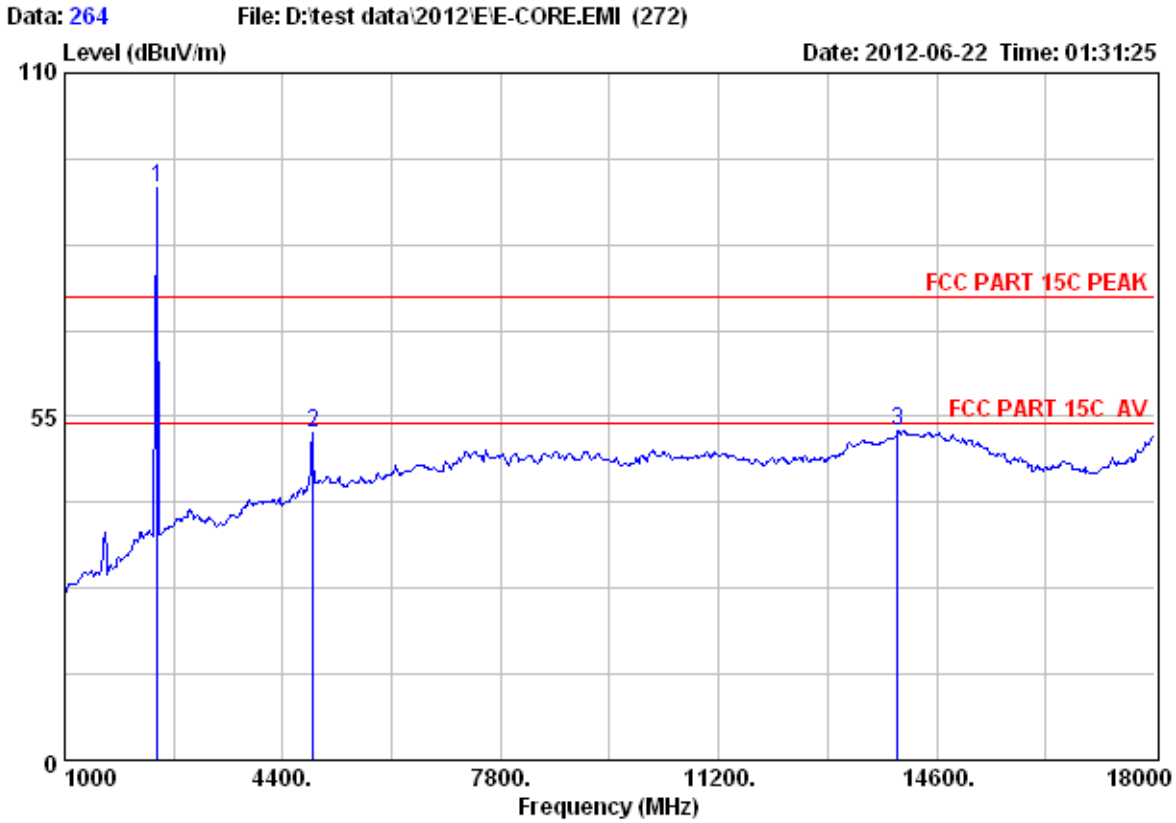
Site no. : 3m Chamber Data no. : 263
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	35.17	103.02	102.12	74.00	-28.12	Peak
2	4882.00	31.37	12.07	34.48	54.72	63.68	74.00	10.32	Peak
3	4882.00	31.37	12.07	34.48	35.72	44.68	54.00	9.32	Average
4	7323.00	36.55	11.57	34.47	37.53	51.18	74.00	22.82	Peak
5	14124.00	41.57	10.91	35.64	35.54	52.38	74.00	21.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



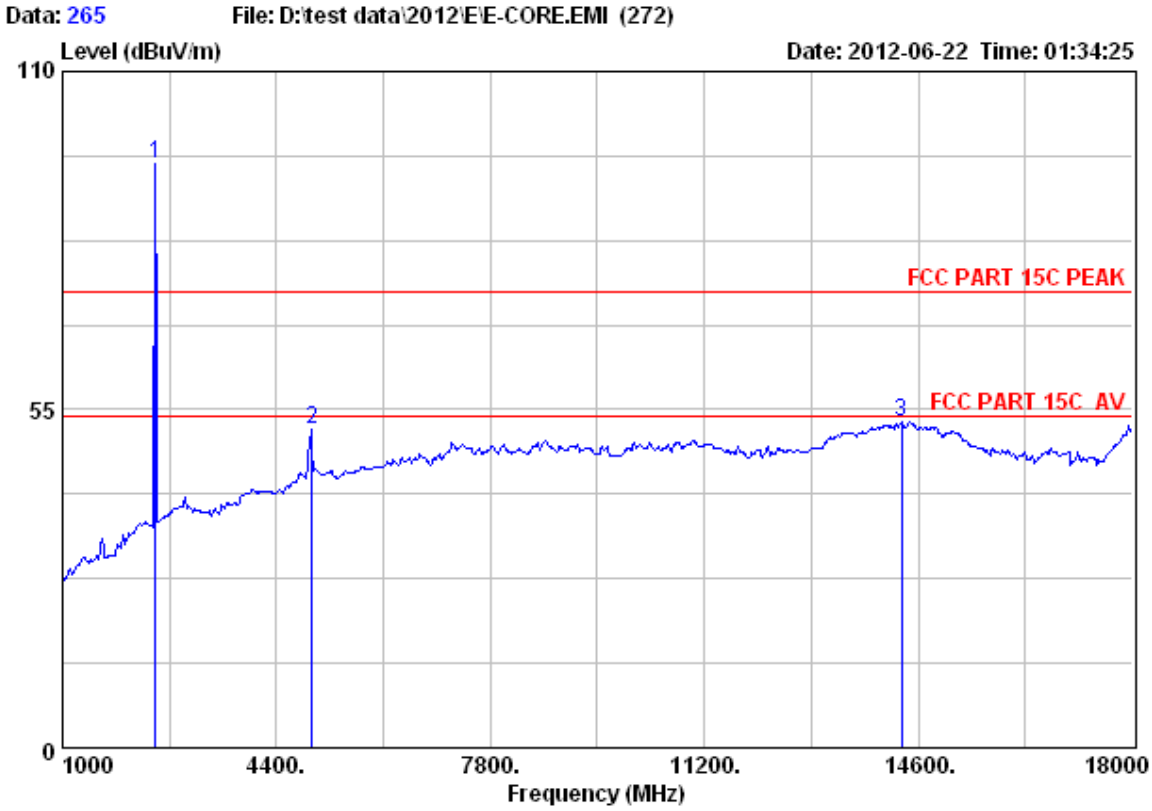
Site no. : 3m Chamber Data no. : 264
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	35.17	92.58	91.68	74.00	-17.68	Peak
2	4882.00	31.37	12.07	34.48	43.40	52.36	74.00	21.64	Peak
3	13988.00	41.45	10.92	35.70	36.10	52.77	74.00	21.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



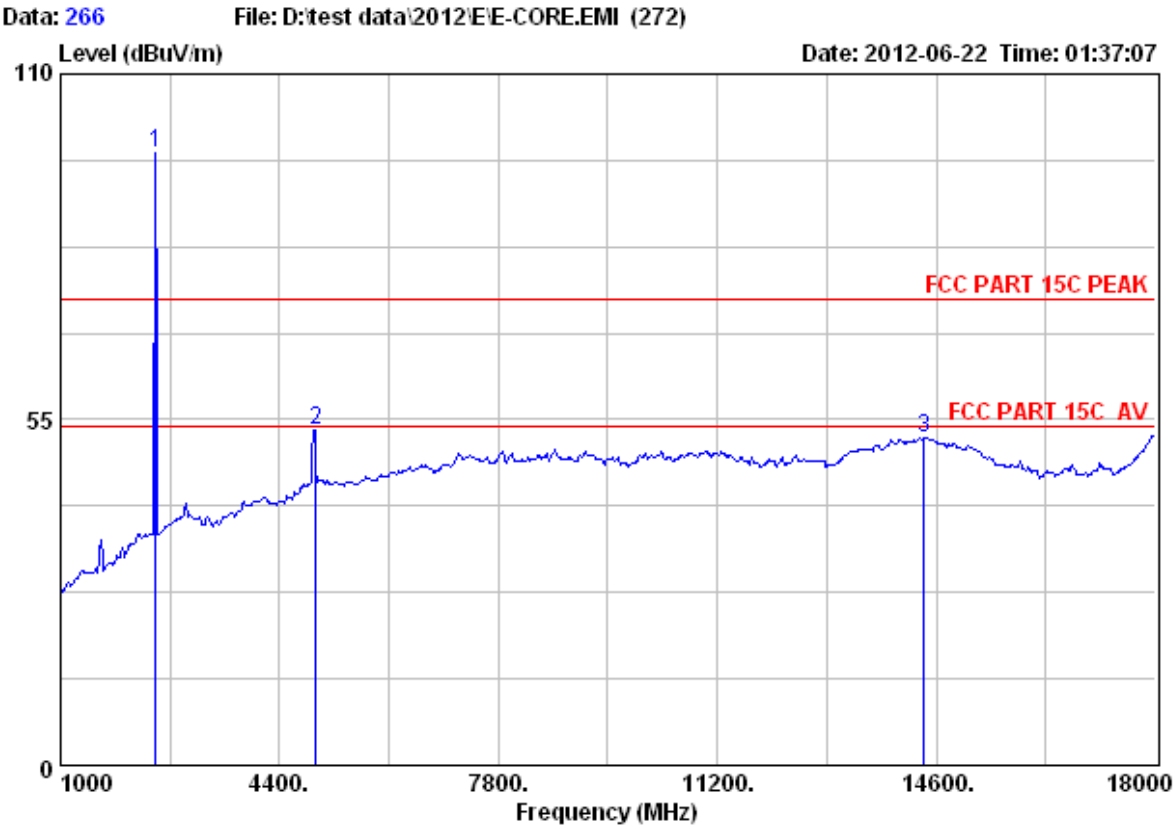
Site no. : 3m Chamber Data no. : 265
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.16	95.80	94.93	74.00	-20.93	Peak
2	4960.00	31.49	12.44	34.46	42.43	51.90	74.00	22.10	Peak
3	14328.00	41.74	10.92	35.54	35.90	53.02	74.00	20.98	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



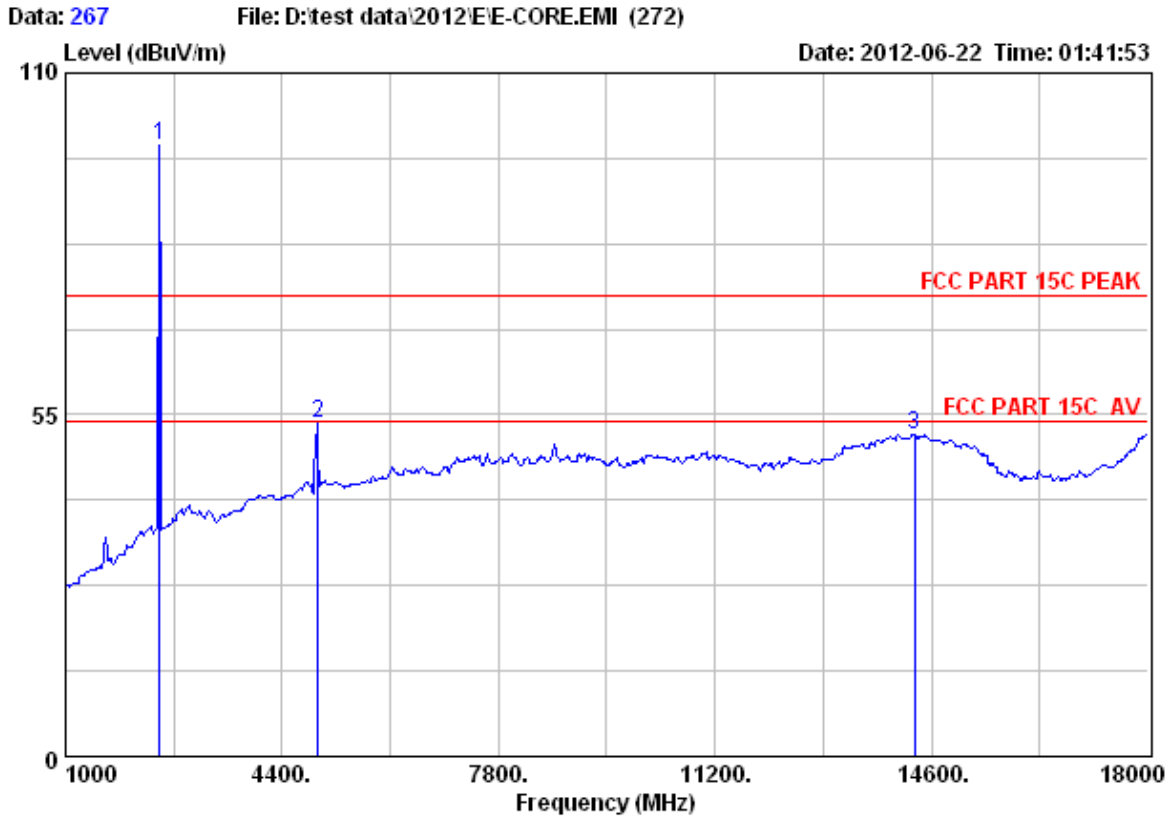
Site no. : 3m Chamber Data no. : 266
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.16	98.29	97.42	74.00	-23.42	Peak
2	4960.00	31.49	12.44	34.46	44.00	53.47	74.00	20.53	Peak
3	14413.00	41.80	10.92	35.49	34.83	52.06	74.00	21.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



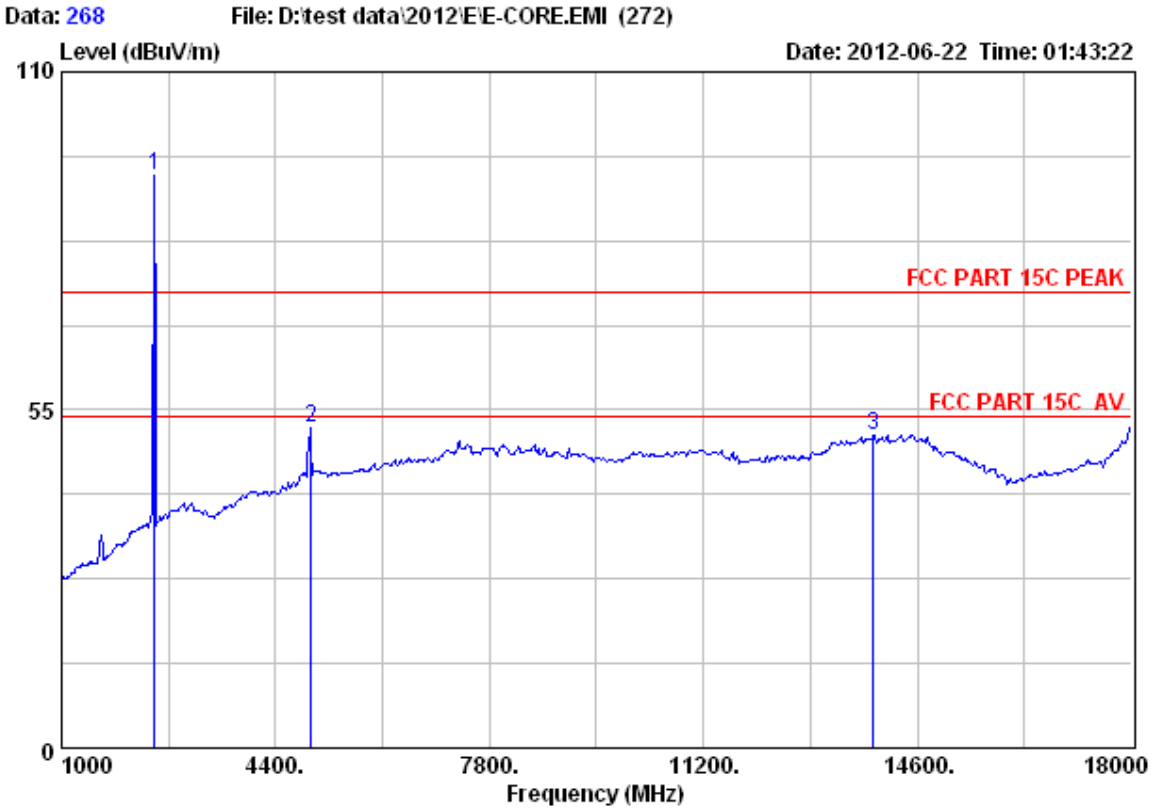
Site no. : 3m Chamber Data no. : 267
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.16	99.28	98.41	74.00	-24.41	Peak
2	4960.00	31.49	12.44	34.46	44.26	53.73	74.00	20.27	Peak
3	14328.00	41.74	10.92	35.54	34.82	51.94	74.00	22.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



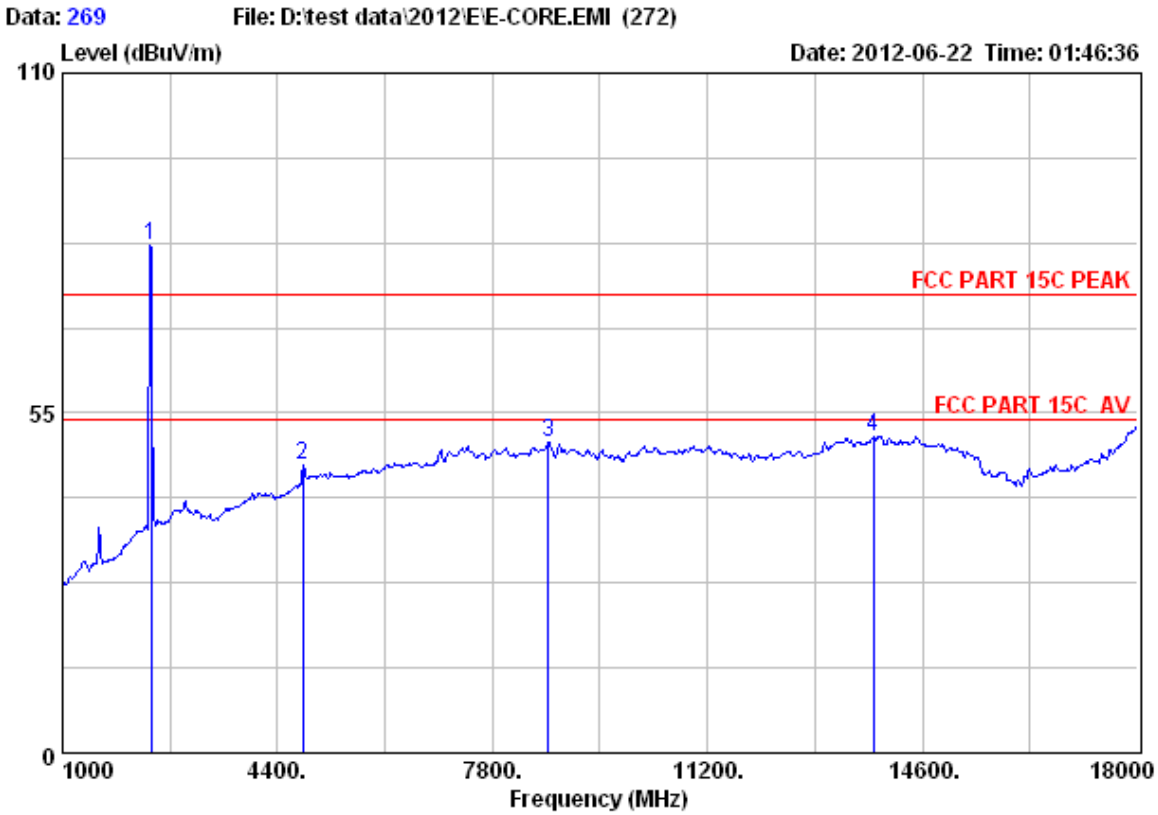
Site no. : 3m Chamber Data no. : 268
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.16	94.07	93.20	74.00	-19.20	Peak
2	4960.00	31.49	12.44	34.46	42.56	52.03	74.00	21.97	Peak
3	13903.00	41.21	11.02	35.74	34.44	50.93	74.00	23.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



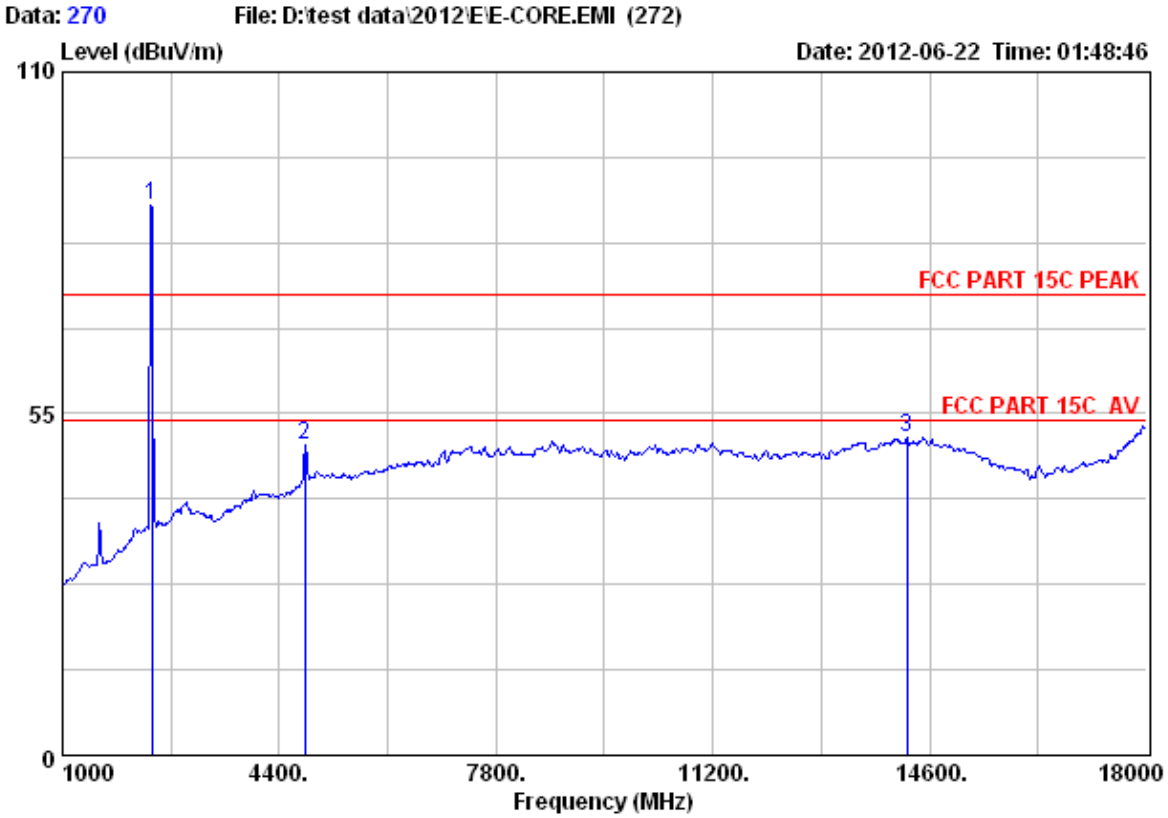
Site no. : 3m Chamber Data no. : 269
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	35.18	82.99	82.04	74.00	-8.04	Peak
2	4804.00	31.25	11.77	34.50	37.92	46.44	74.00	27.56	Peak
3	8684.00	37.32	11.45	35.14	36.48	50.11	74.00	23.89	Peak
4	13818.00	40.97	11.12	35.76	34.97	51.30	74.00	22.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



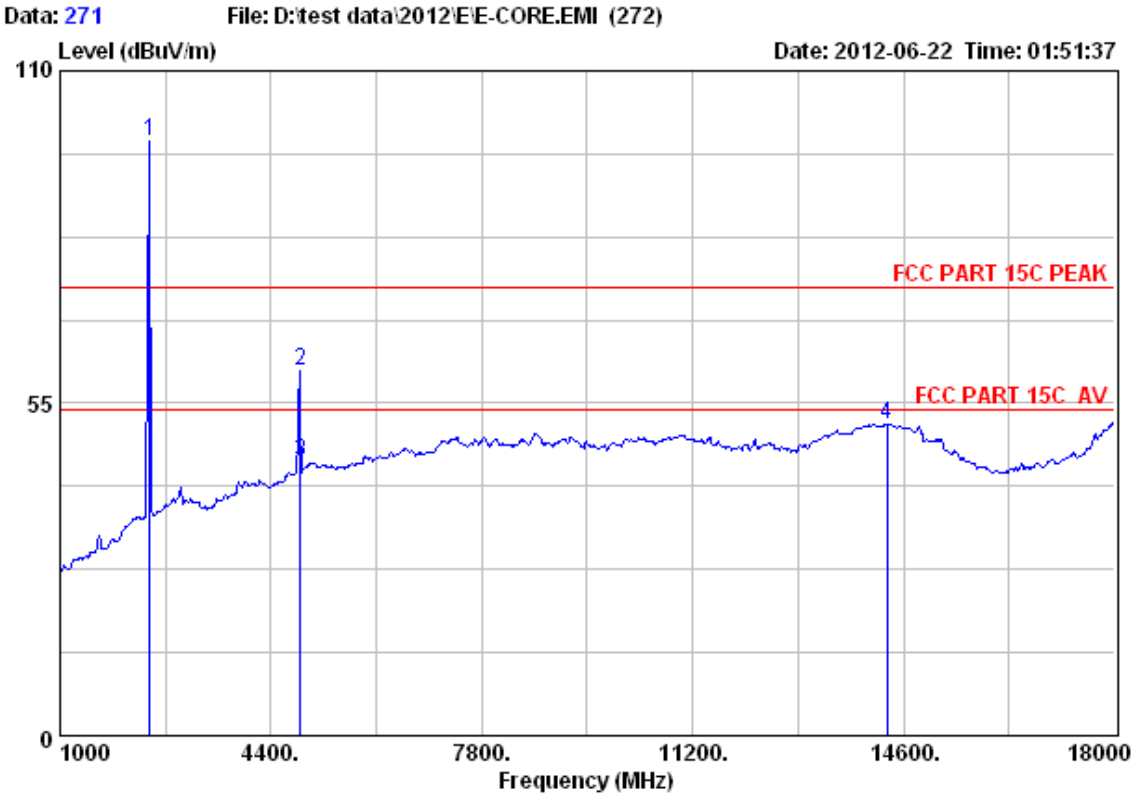
Site no. : 3m Chamber Data no. : 270
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	35.18	89.52	88.57	74.00	-14.57	Peak
2	4804.00	31.25	11.77	34.50	41.49	50.01	74.00	23.99	Peak
3	14243.00	41.67	10.91	35.58	34.13	51.13	74.00	22.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



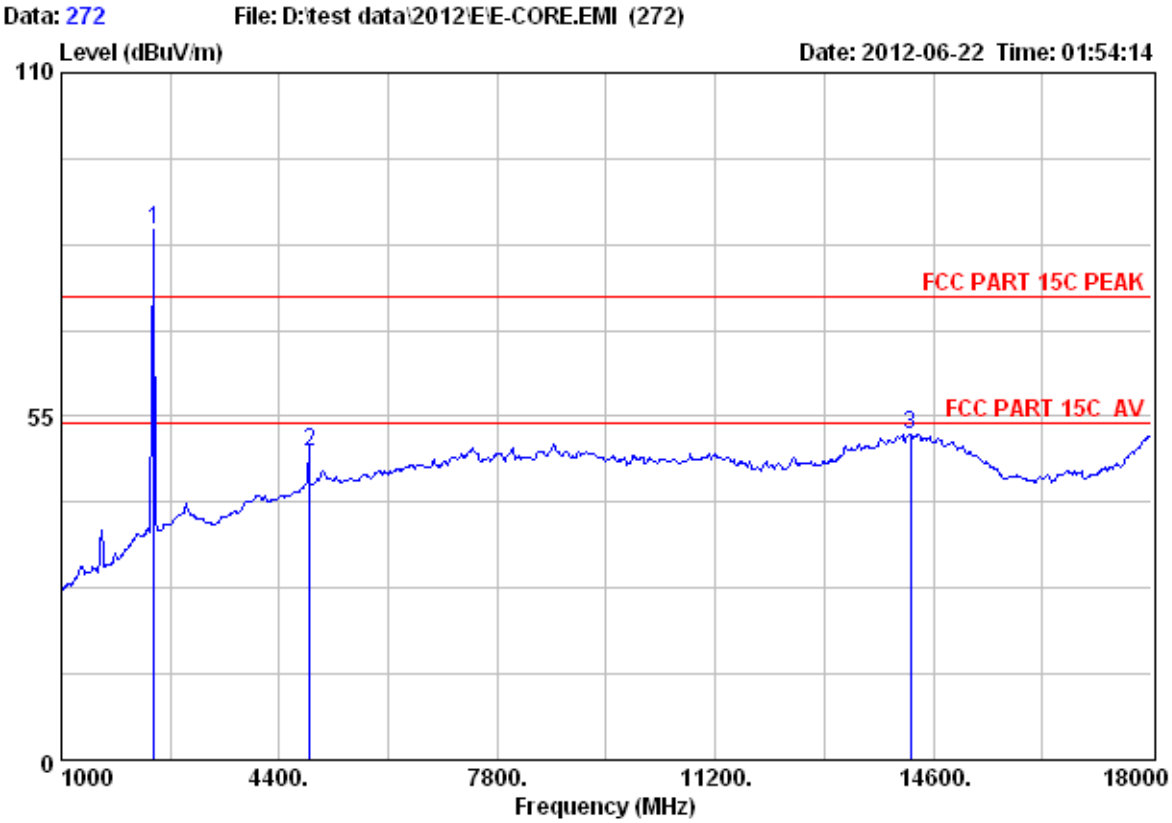
Site no. : 3m Chamber Data no. : 271
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	35.17	99.35	98.45	74.00	-24.45	Peak
2	4882.00	31.37	12.07	34.48	51.27	60.23	74.00	13.77	Peak
3	4882.00	31.37	12.07	34.48	36.27	45.23	54.00	8.77	Average
4	14328.00	41.74	10.92	35.54	34.49	51.61	74.00	22.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



Site no. : 3m Chamber Data no. : 272
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2441MHz

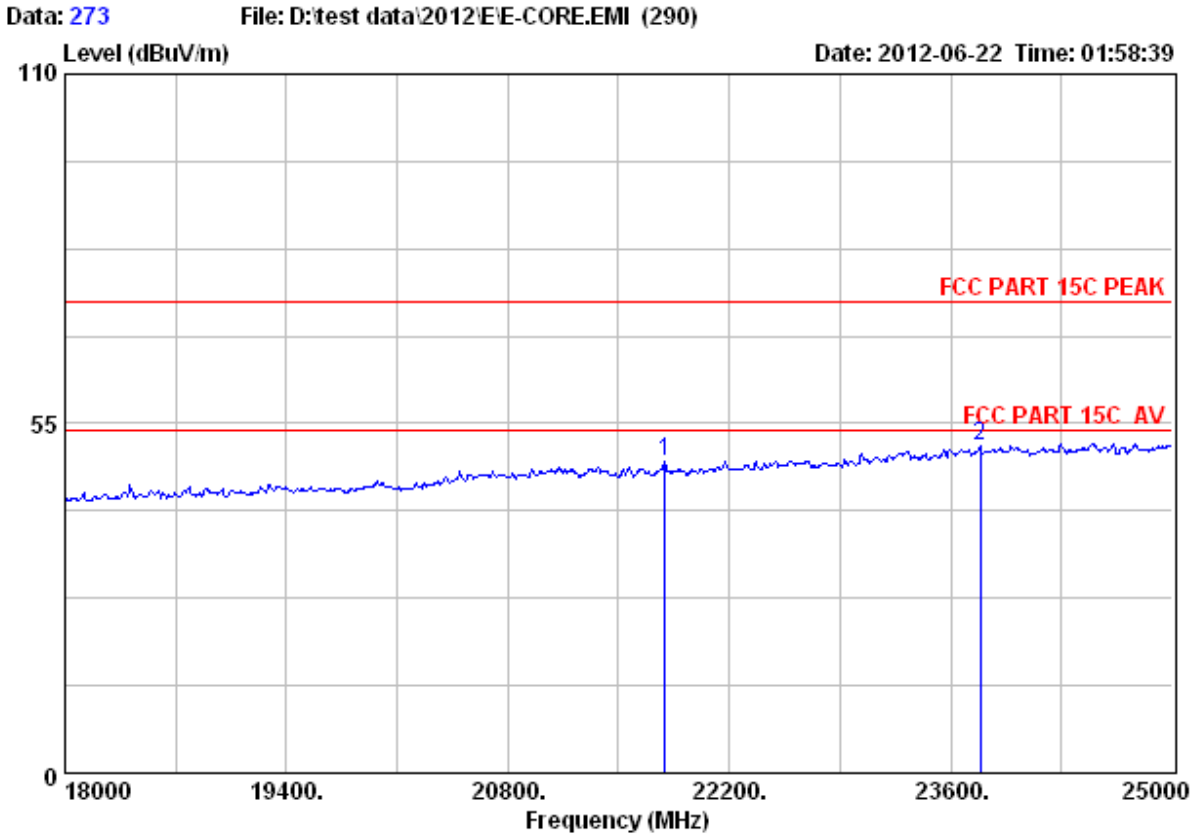
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	35.17	85.74	84.84	74.00	-10.84	Peak
2	4882.00	31.37	12.07	34.48	40.24	49.20	74.00	24.80	Peak
3	14243.00	41.67	10.91	35.58	35.19	52.19	74.00	21.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

18000MHz – 260000MHz

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



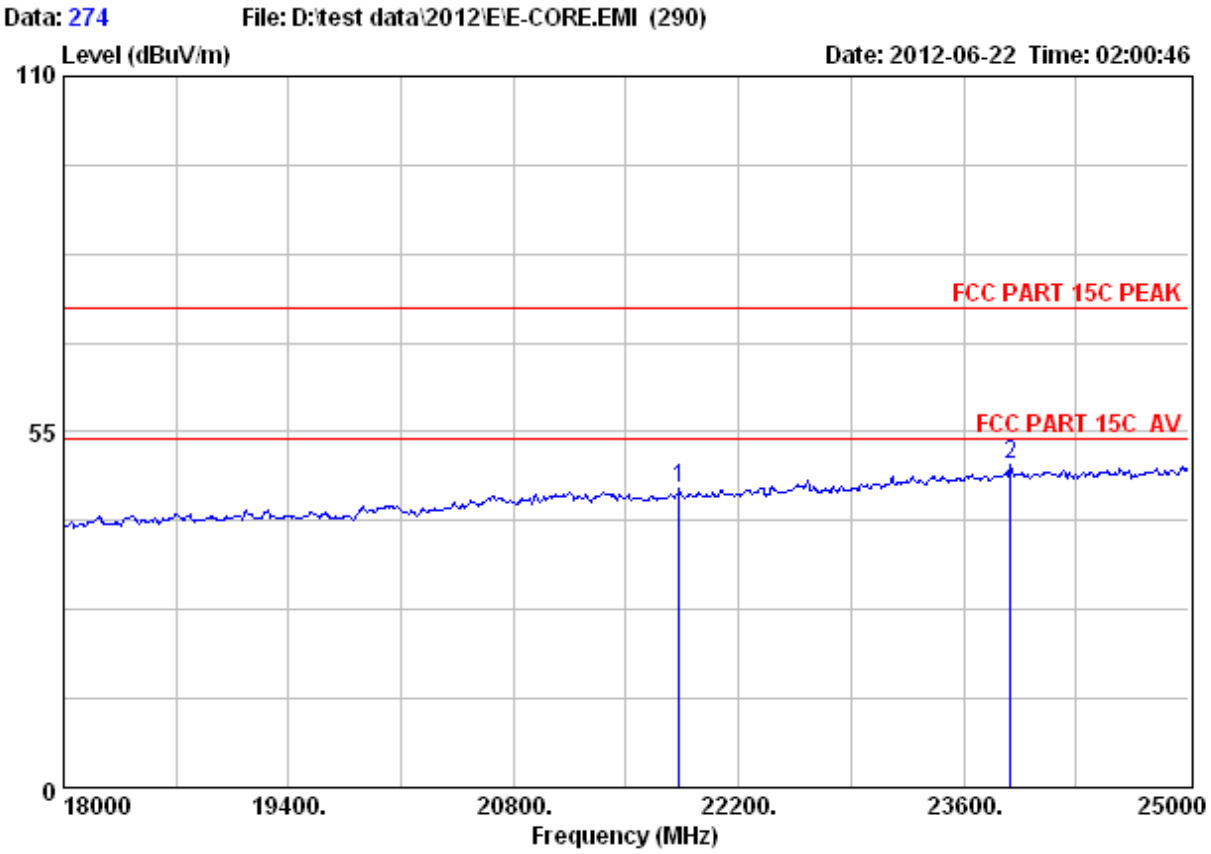
Site no. : 3m Chamber Data no. : 273
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21794.00	45.83	20.47	35.08	17.96	49.18	74.00	24.82	Peak
2	23789.00	45.64	21.86	33.01	17.14	51.63	74.00	22.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



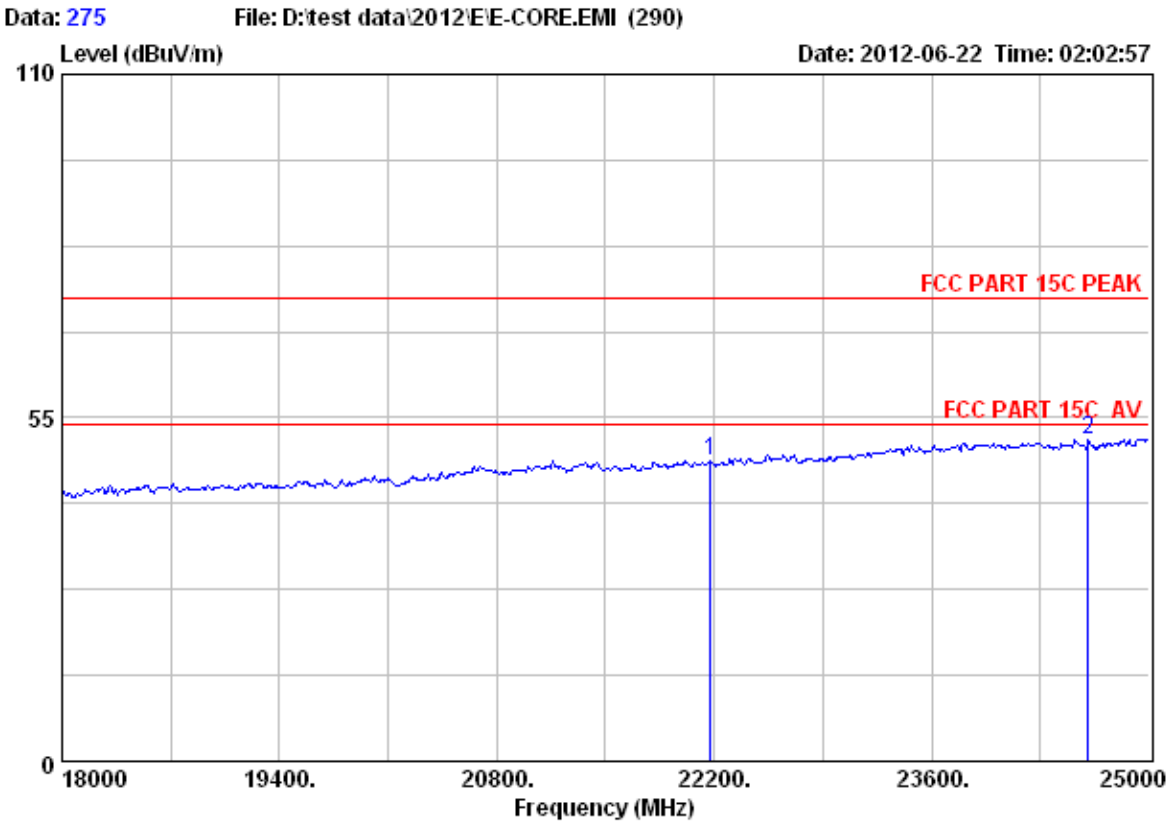
Site no. : 3m Chamber Data no. : 274
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21829.00	45.80	20.49	35.06	14.99	46.22	74.00	27.78	Peak
2	23894.00	45.62	21.95	32.90	15.25	49.92	74.00	24.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



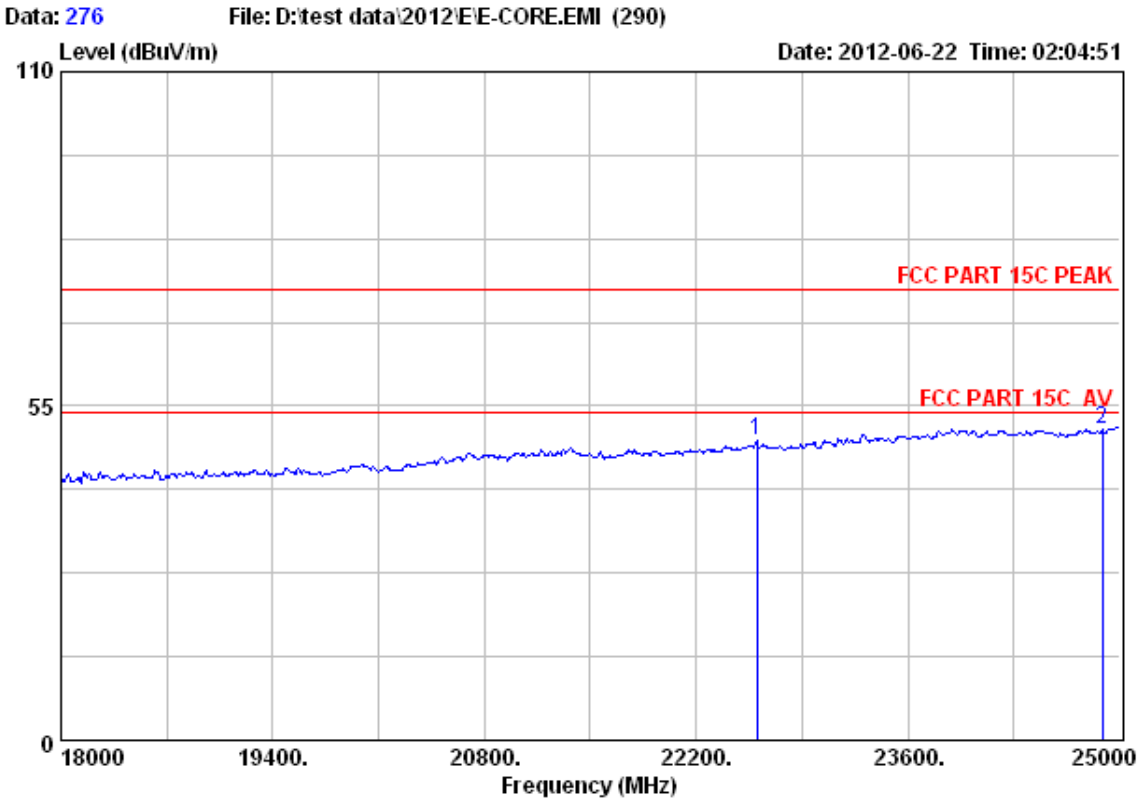
Site no. : 3m Chamber Data no. : 275
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	22179.00	45.73	20.67	34.72	16.38	48.06	74.00	25.94	Peak
2	24608.00	45.79	22.38	33.73	16.99	51.43	74.00	22.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



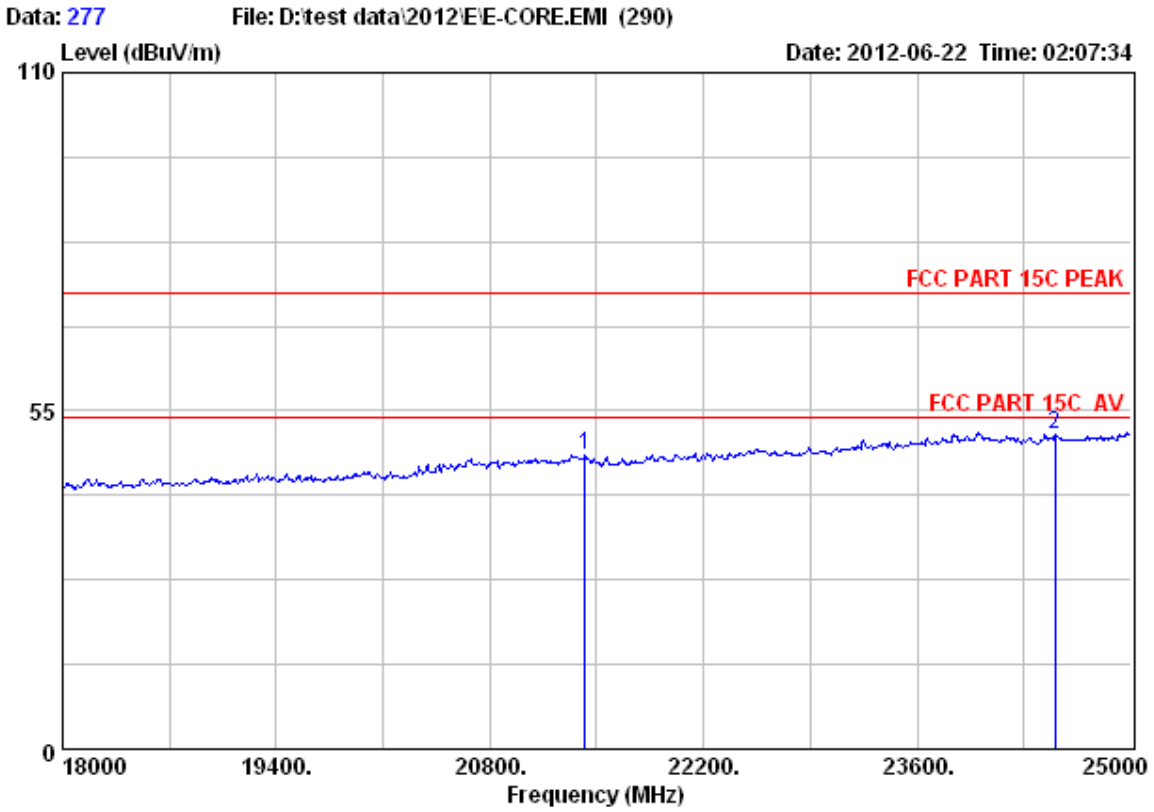
Site no. : 3m Chamber Data no. : 276
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	22599.00	45.76	20.91	34.27	16.81	49.21	74.00	24.79	Peak
2	24888.00	46.01	22.53	34.19	16.80	51.15	74.00	22.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



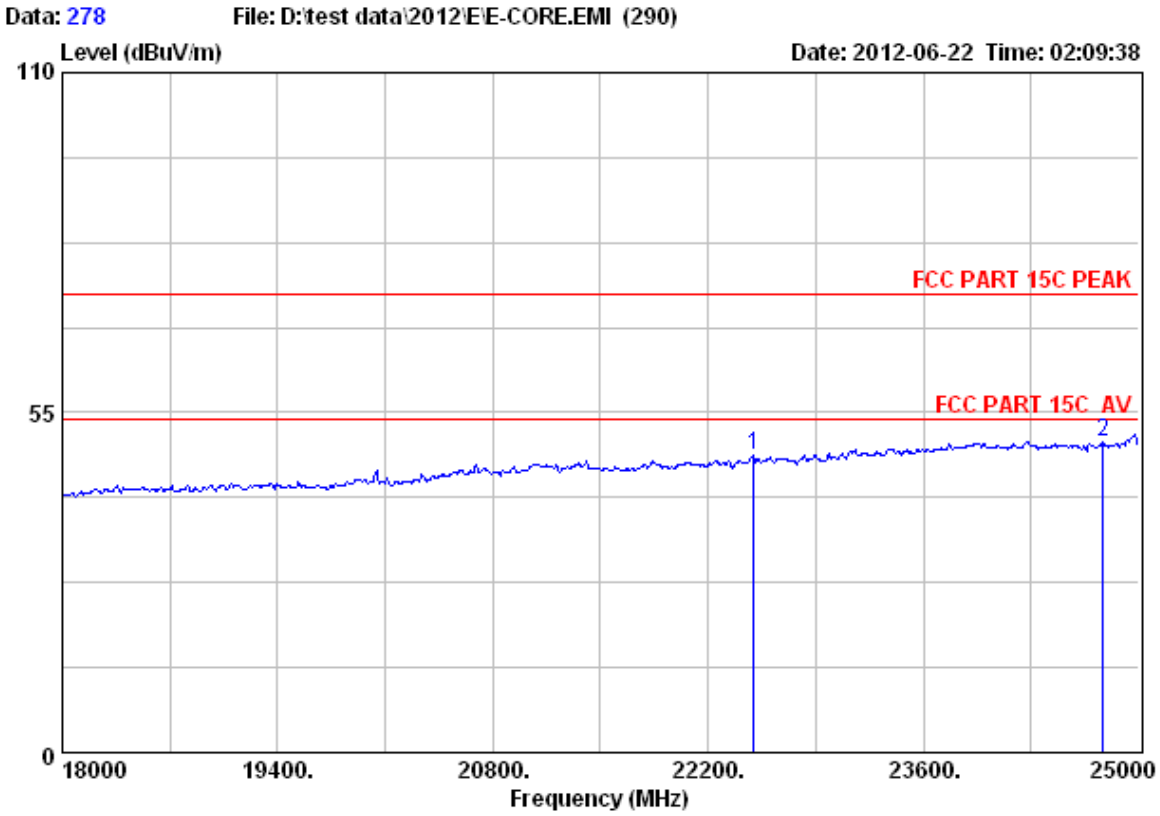
Site no. : 3m Chamber Data no. : 277
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21423.00	46.04	20.31	35.42	16.89	47.82	74.00	26.18	Peak
2	24503.00	45.72	22.32	33.58	16.60	51.06	74.00	22.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



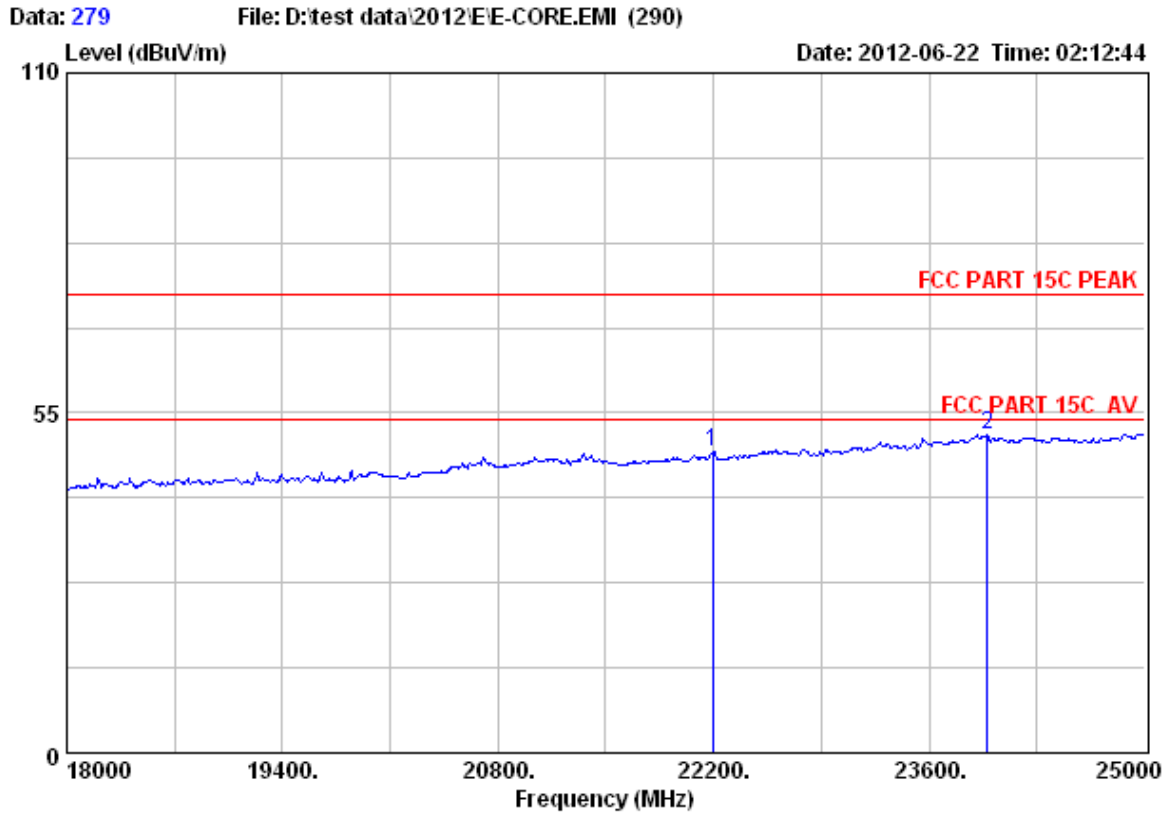
Site no. : 3m Chamber Data no. : 278
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	22494.00	45.80	20.85	34.38	15.79	48.06	74.00	25.94	Peak
2	24769.00	45.93	22.46	34.00	16.01	50.40	74.00	23.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



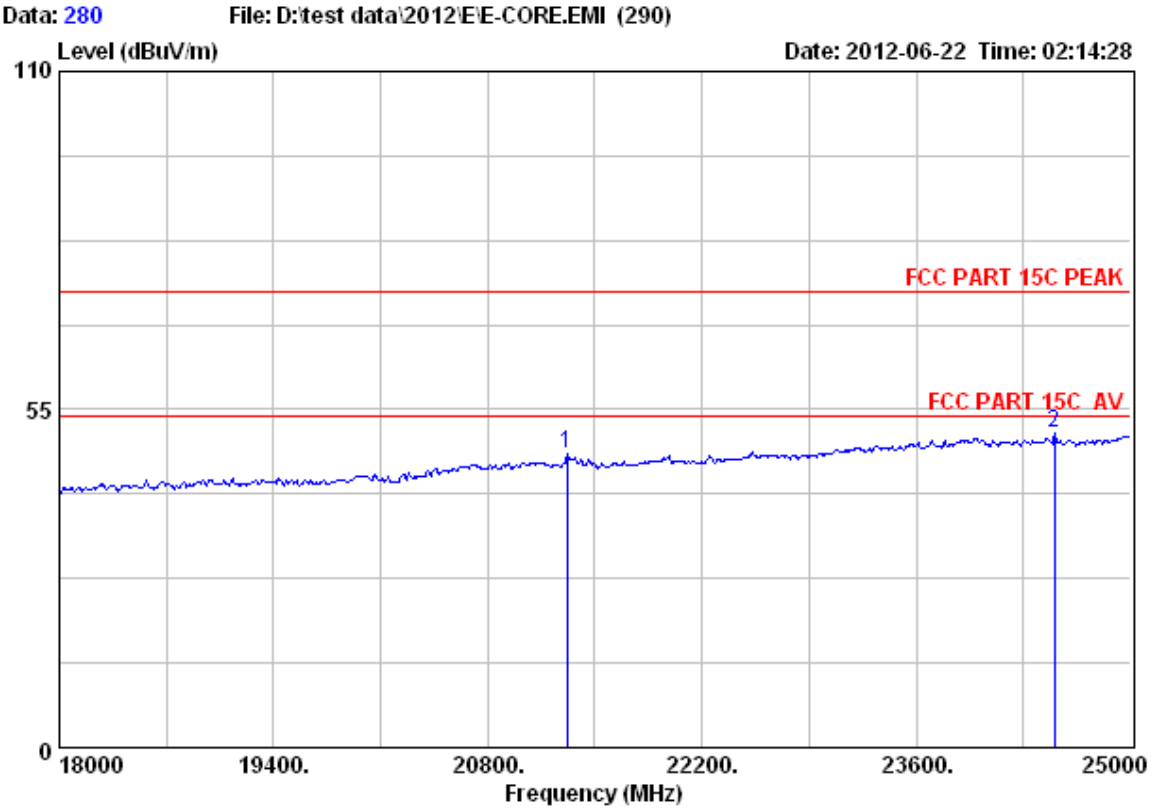
Site no. : 3m Chamber Data no. : 279
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	22193.00	45.74	20.68	34.69	17.06	48.79	74.00	25.21	Peak
2	23978.00	45.60	22.03	32.83	16.76	51.56	74.00	22.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



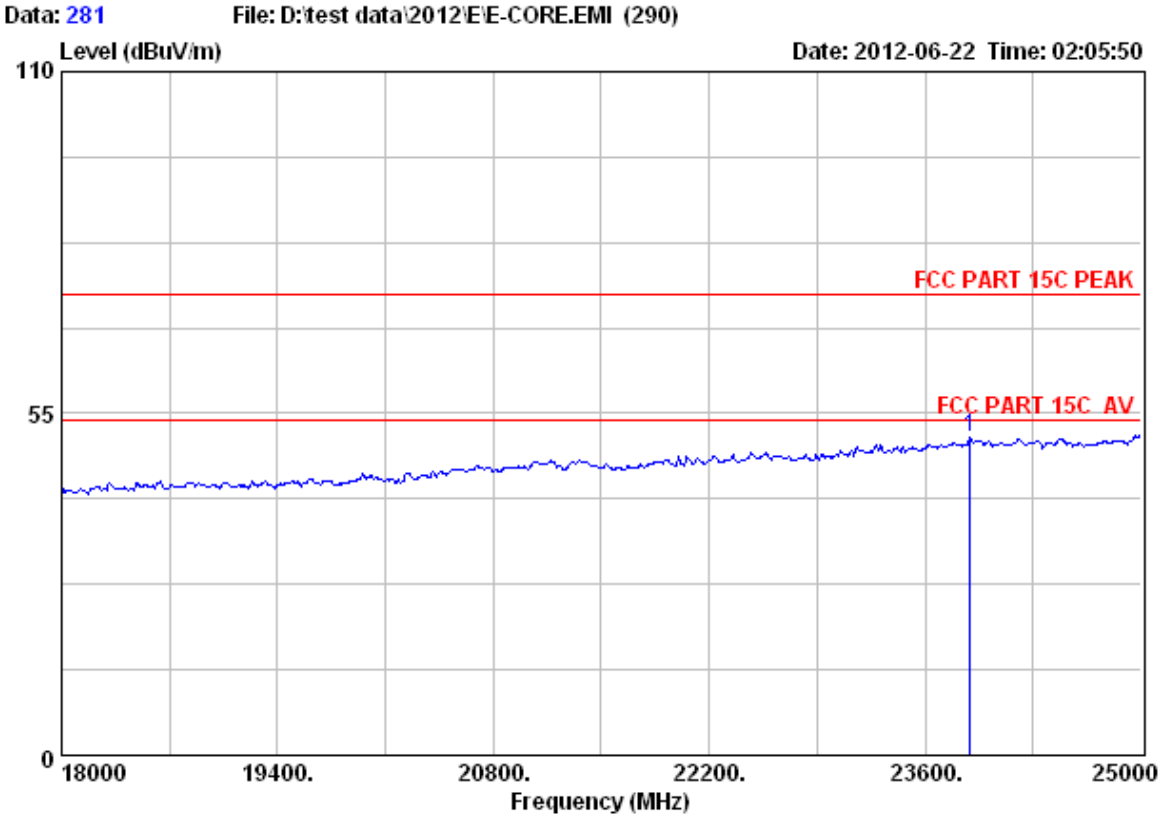
Site no. : 3m Chamber Data no. : 280
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21318.00	46.10	20.27	35.51	16.86	47.72	74.00	26.28	Peak
2	24503.00	45.72	22.32	33.58	16.82	51.28	74.00	22.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



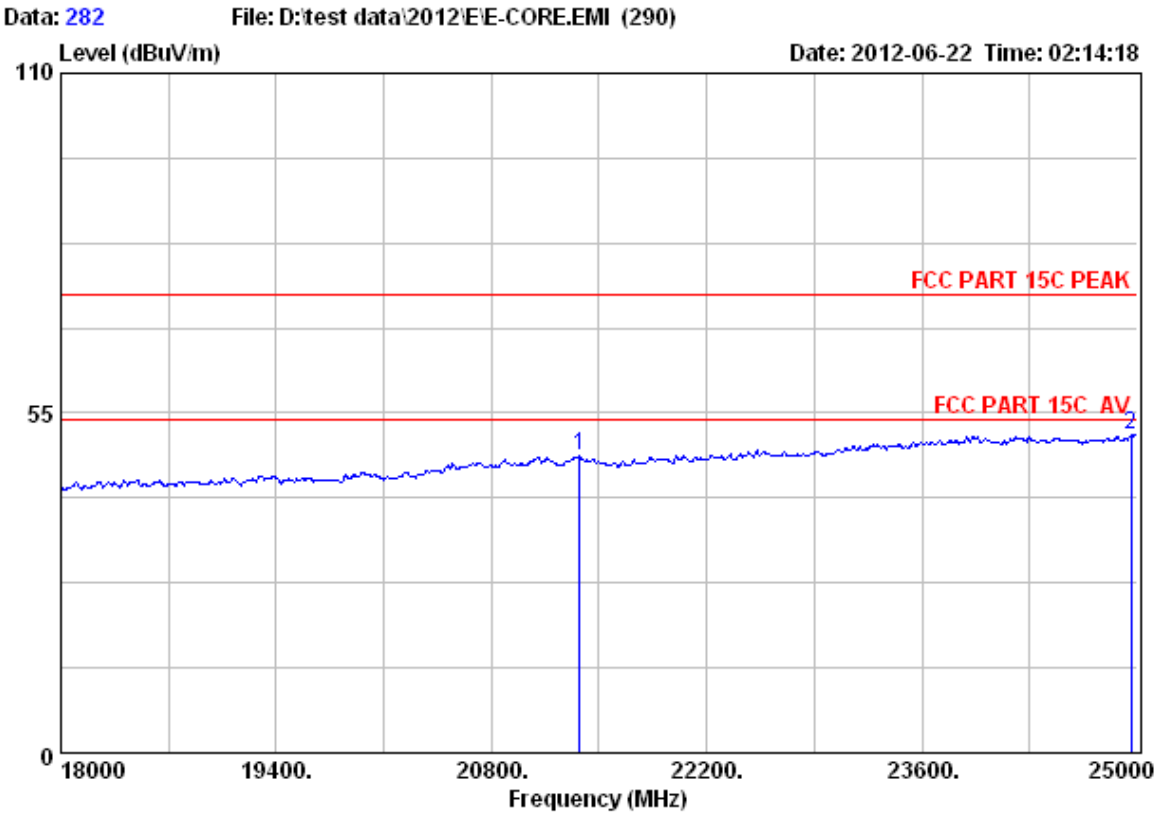
Site no. : 3m Chamber Data no. : 281
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	23894.00	45.62	21.95	32.90	16.64	51.31	74.00	22.69	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



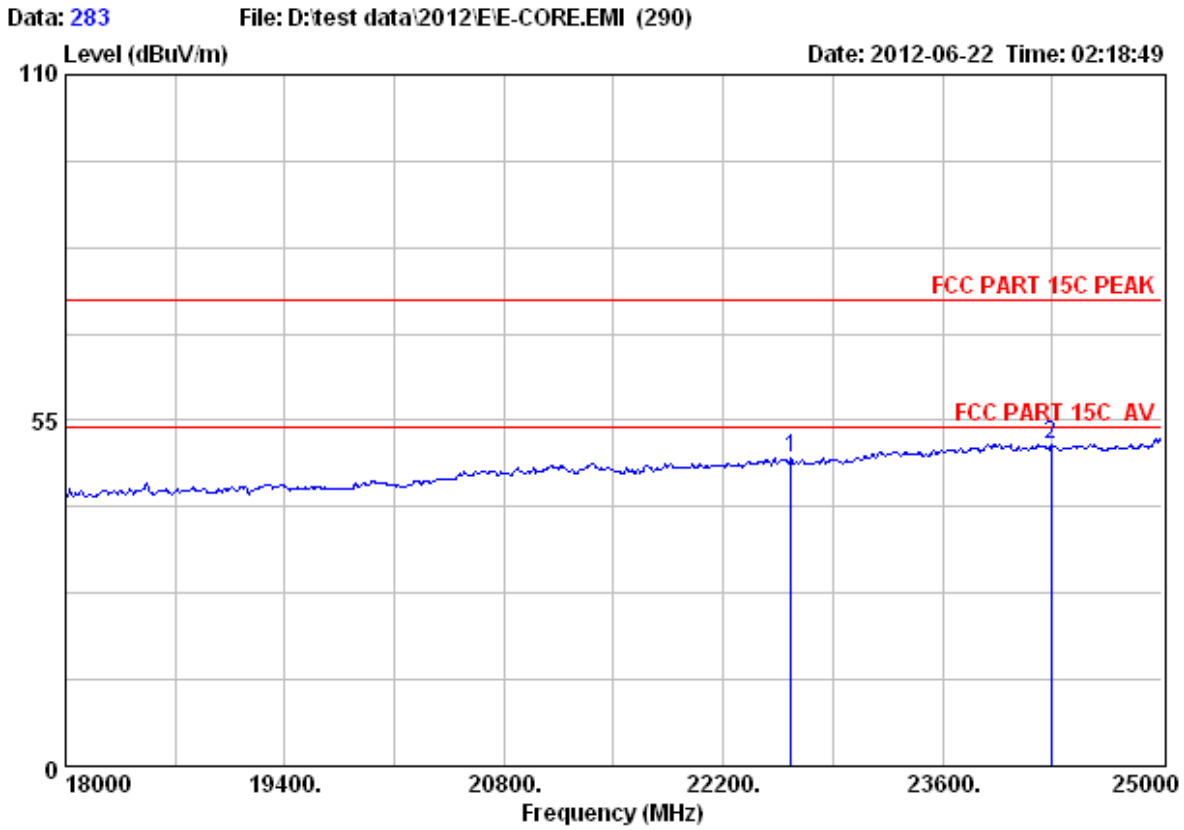
Site no. : 3m Chamber Data no. : 282
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21374.00	46.08	20.29	35.46	17.25	48.16	74.00	25.84	Peak
2	24958.00	46.07	22.57	34.27	17.22	51.59	74.00	22.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



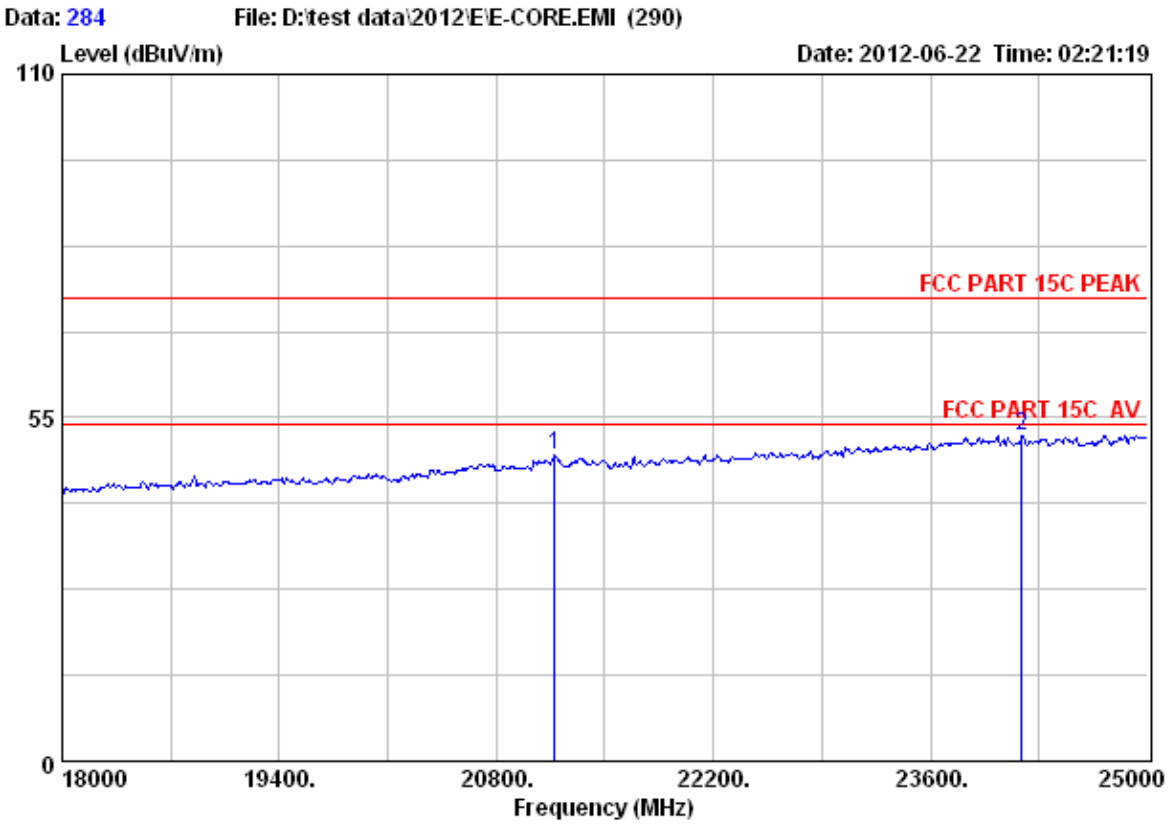
Site no. : 3m Chamber Data no. : 283
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	22634.00	45.75	20.93	34.24	16.74	49.18	74.00	24.82	Peak
2	24293.00	45.66	22.21	33.26	16.59	51.20	74.00	22.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



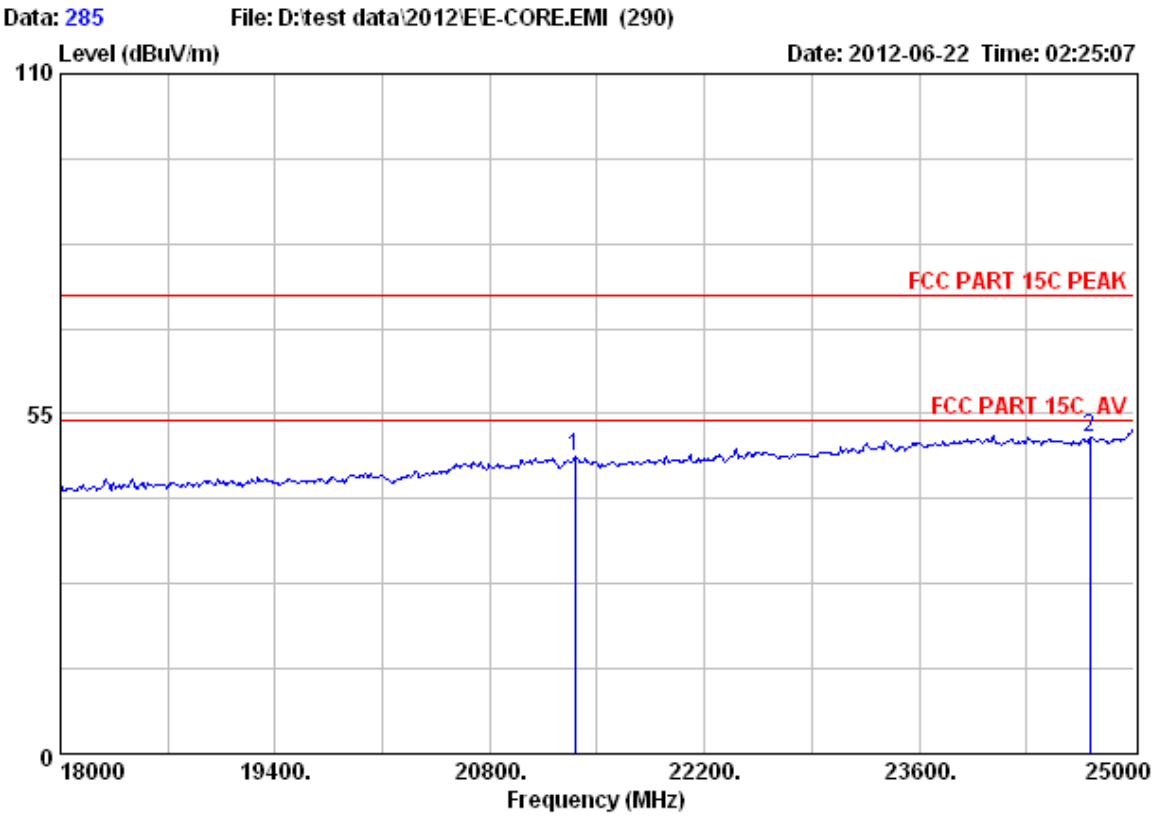
Site no. : 3m Chamber Data no. : 284
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21178.00	46.20	20.21	35.64	18.28	49.05	74.00	24.95	Peak
2	24188.00	45.64	22.15	33.11	17.56	52.24	74.00	21.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



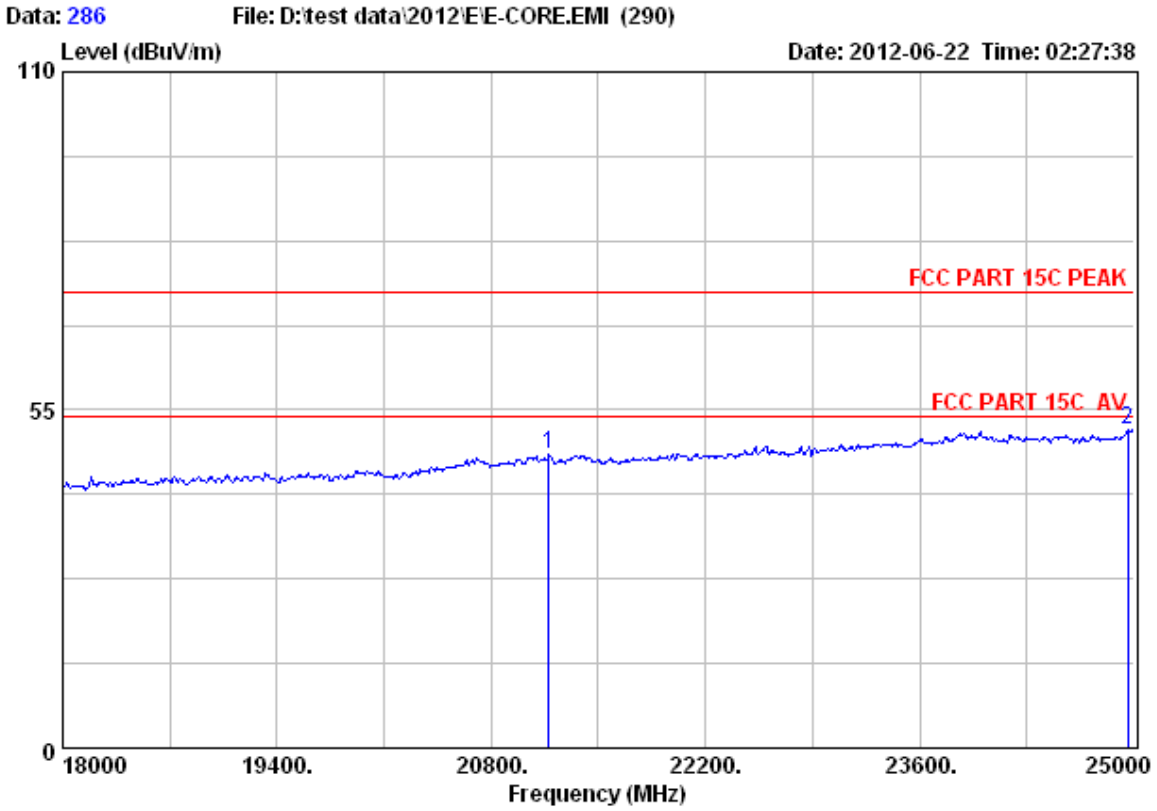
Site no. : 3m Chamber Data no. : 285
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21353.00	46.09	20.28	35.49	17.08	47.96	74.00	26.04	Peak
2	24713.00	45.87	22.43	33.92	16.76	51.14	74.00	22.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



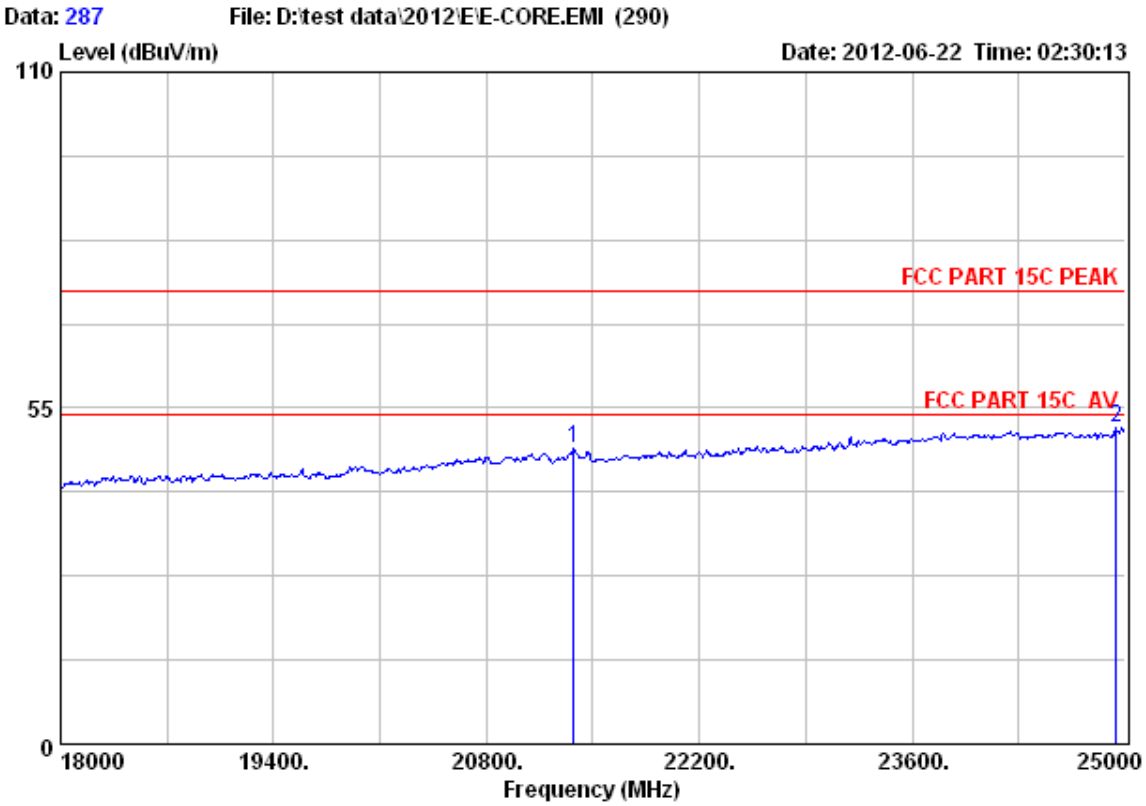
Site no. : 3m Chamber Data no. : 286
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21178.00	46.20	20.21	35.64	16.92	47.69	74.00	26.31	Peak
2	24958.00	46.07	22.57	34.27	17.36	51.73	74.00	22.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



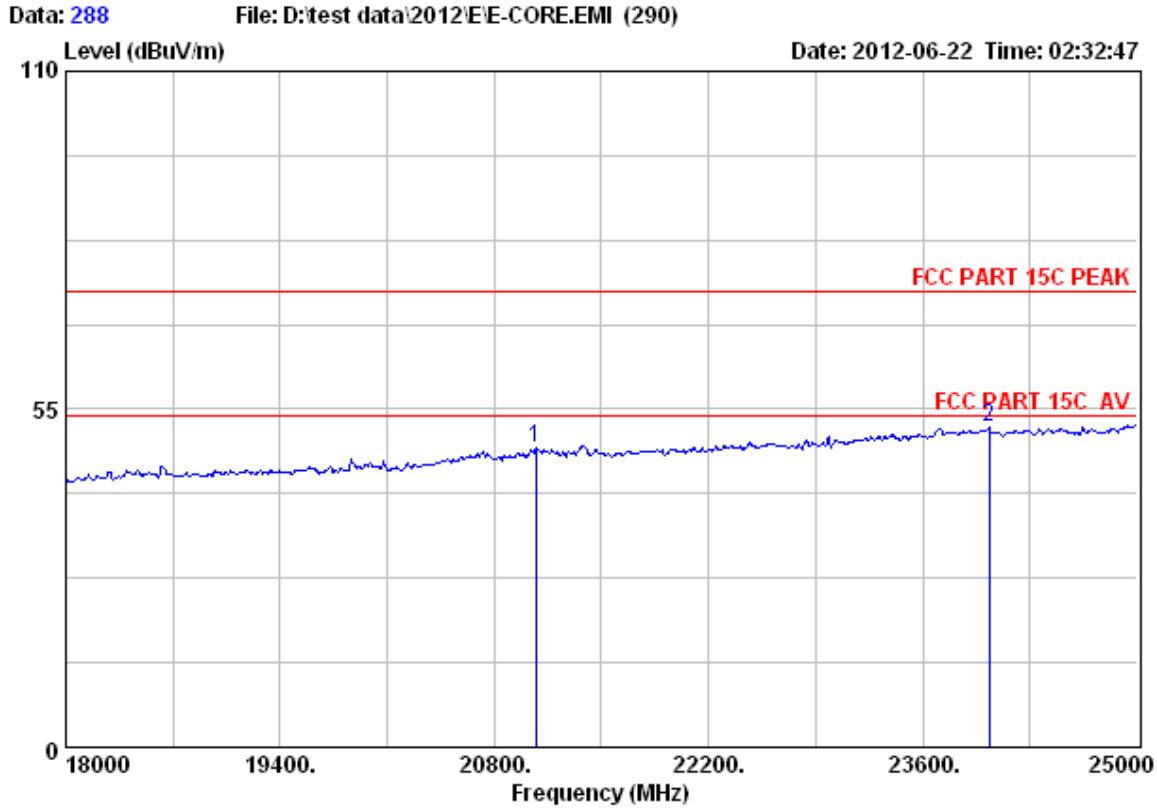
Site no. : 3m Chamber Data no. : 287
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21374.00	46.08	20.29	35.46	17.58	48.49	74.00	25.51	Peak
2	24944.00	46.07	22.56	34.27	17.35	51.71	74.00	22.29	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



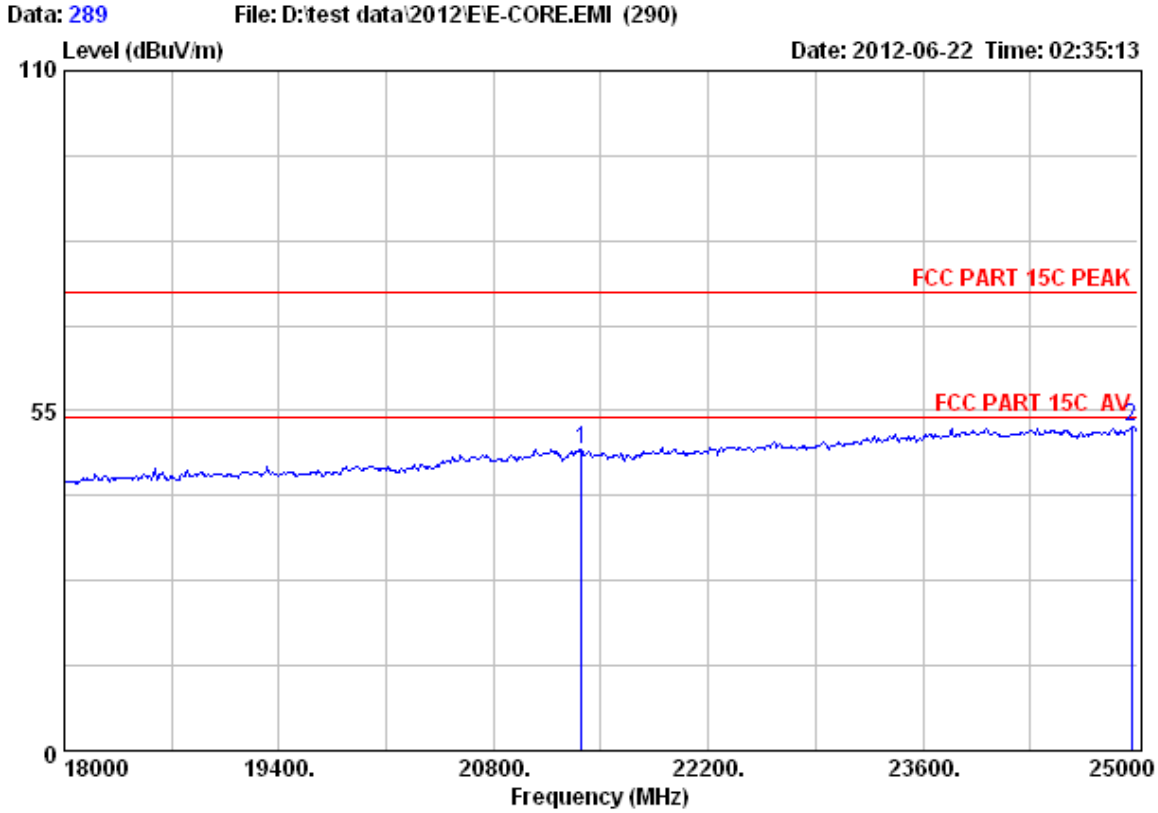
Site no. : 3m Chamber Data no. : 288
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21073.00	46.25	20.16	35.73	18.14	48.82	74.00	25.18	Peak
2	24034.00	45.60	22.06	32.84	17.33	52.15	74.00	21.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



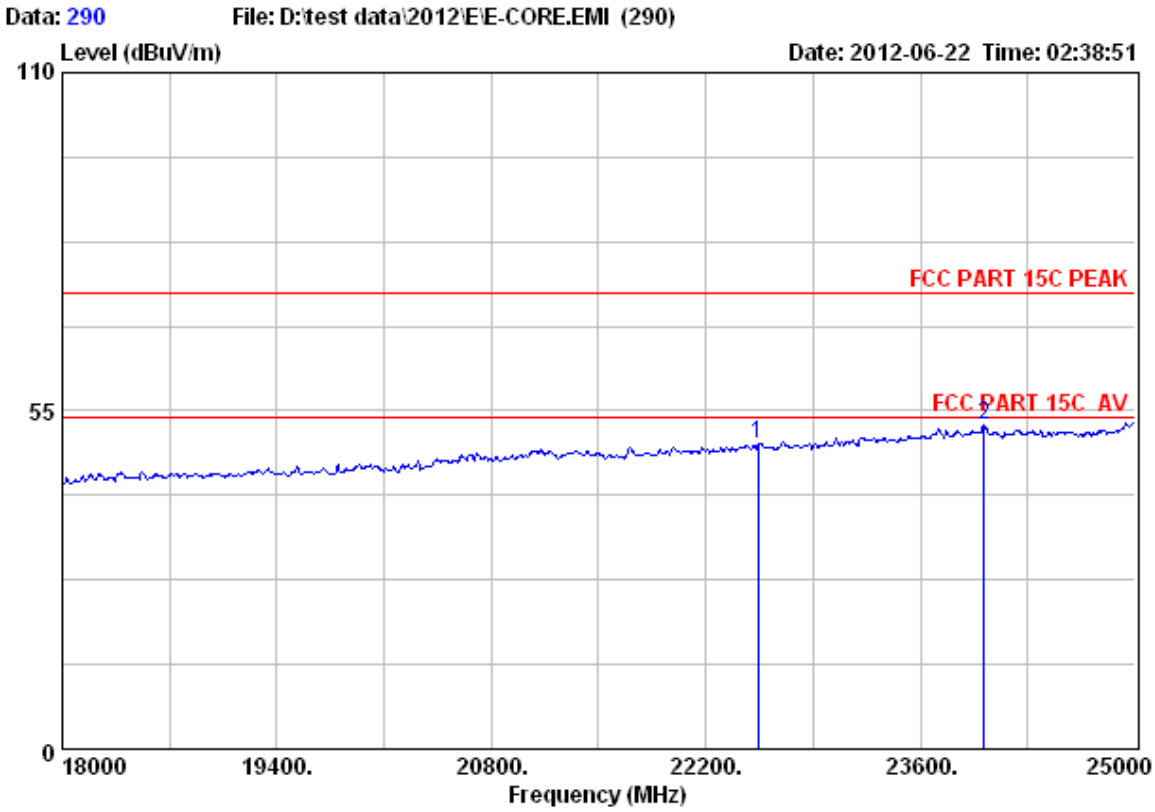
Site no. : 3m Chamber Data no. : 289
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21374.00	46.08	20.29	35.46	17.87	48.78	74.00	25.22	Peak
2	24958.00	46.07	22.57	34.27	18.17	52.54	74.00	21.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



Site no. : 3m Chamber Data no. : 290
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	22543.00	45.79	20.88	34.32	17.37	49.72	74.00	24.28	Peak
2	24013.00	45.60	22.05	32.84	17.80	52.61	74.00	21.39	Peak

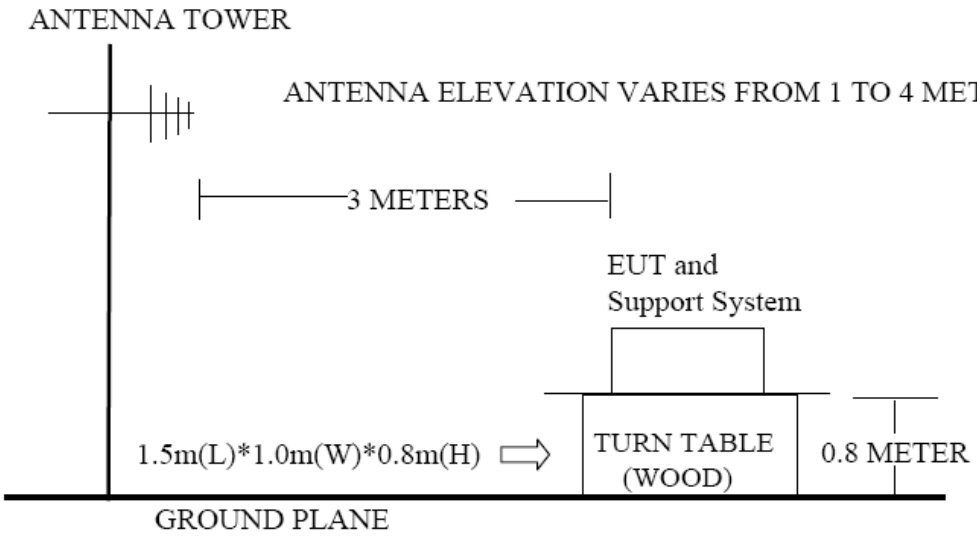
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

9. BAND EDGE COMPLIANCE

9.1. 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 shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.2. Block Diagram of Test setup



9.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

9.4. Test Result

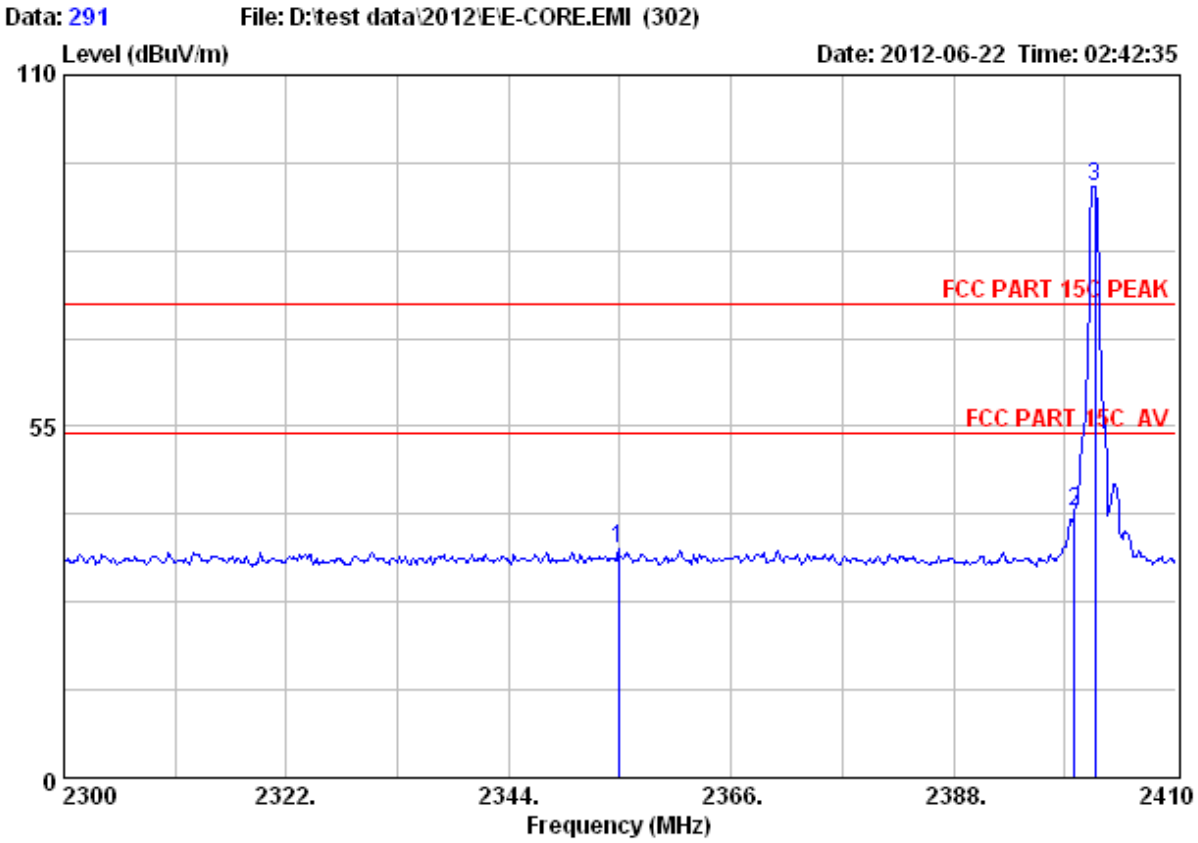
EUT: Baby bluetooth spaeker M/N:HT2009
Power:DC 3.7V
Test date: 2012-06-22 Test site: 3m Chamber Tested by: Tony Tang
Test mode: Tx Mode
Pass

Note : If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

9.5. Test Data

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



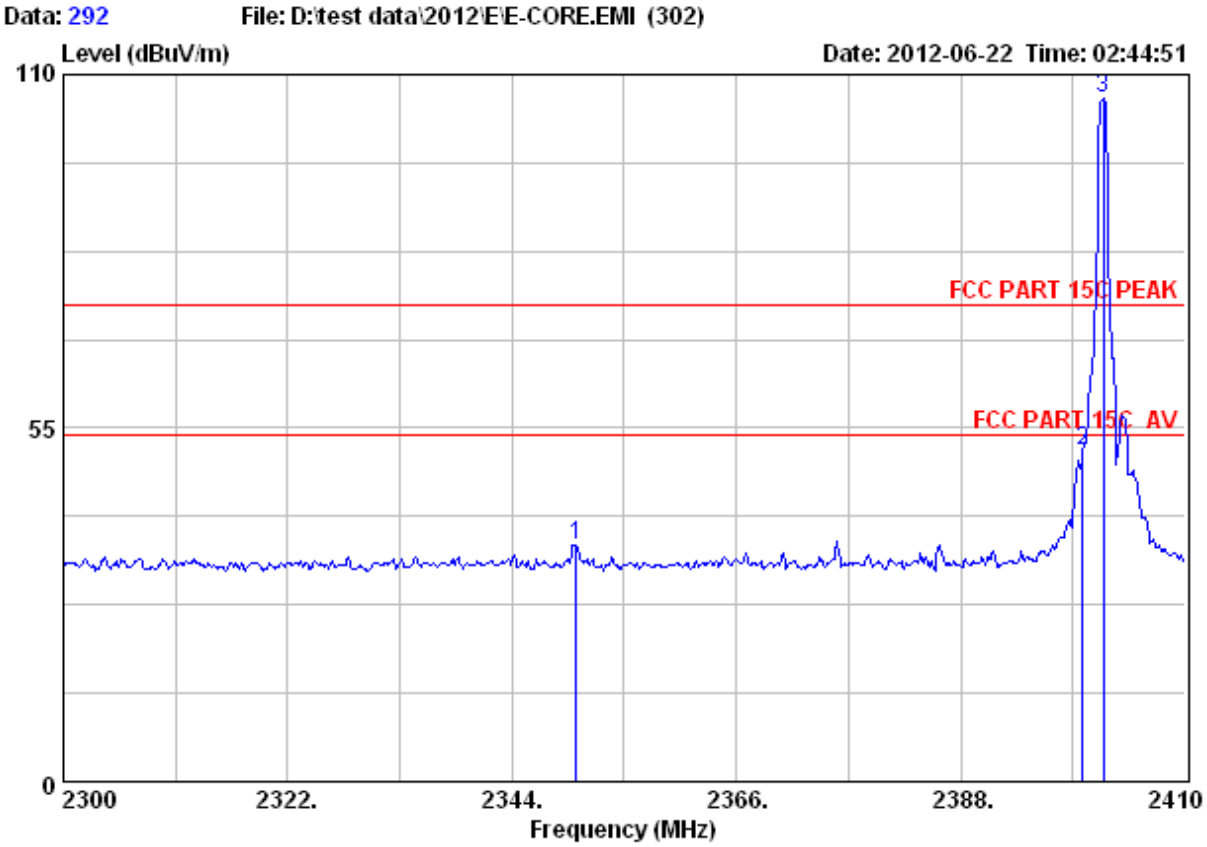
Site no. : 3m Chamber Data no. : 291
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2354.89	27.70	6.58	35.19	36.71	35.80	74.00	38.20	Peak
2	2400.00	27.61	6.62	35.18	42.69	41.74	74.00	32.26	Peak
3	2401.97	27.61	6.62	35.18	93.58	92.63	74.00	-18.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



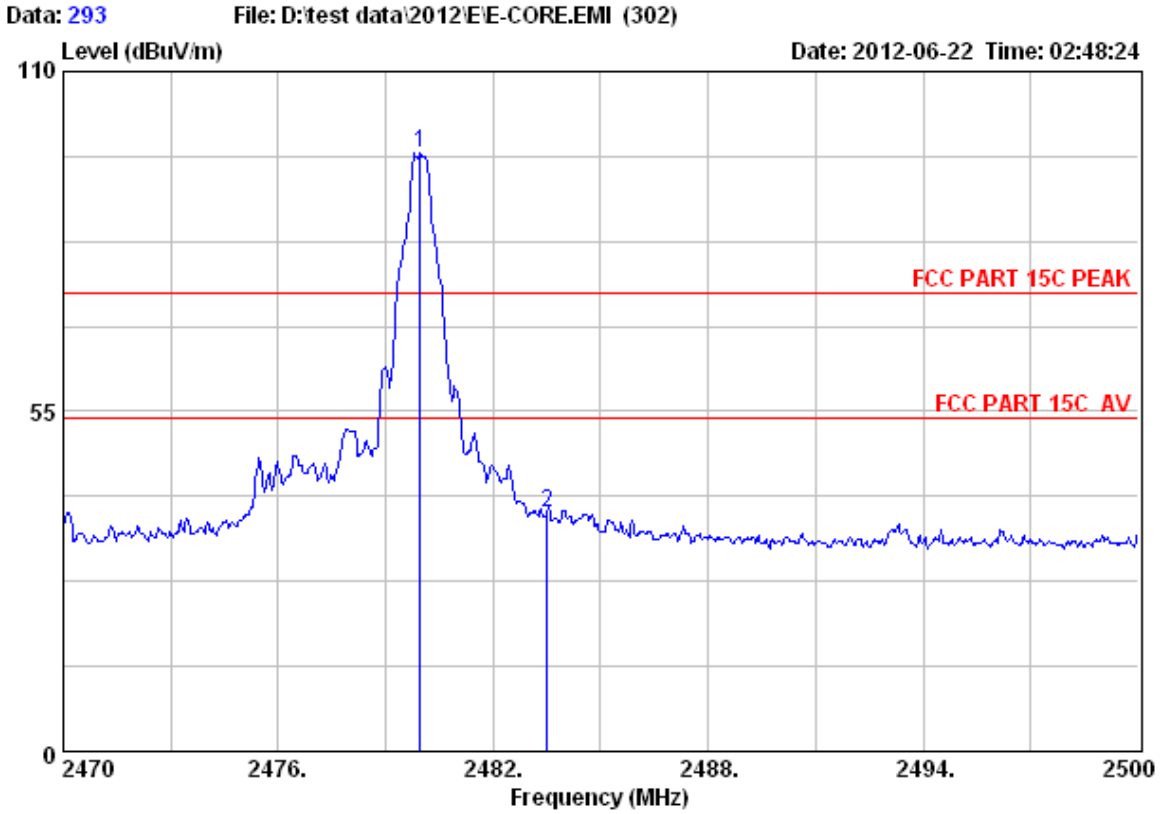
Site no. : 3m Chamber Data no. : 292
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2350.27	27.70	6.56	35.19	37.74	36.81	74.00	37.19	Peak
2	2400.00	27.61	6.62	35.18	52.34	51.39	74.00	22.61	Peak
3	2401.97	27.61	6.62	35.18	107.42	106.47	74.00	-32.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



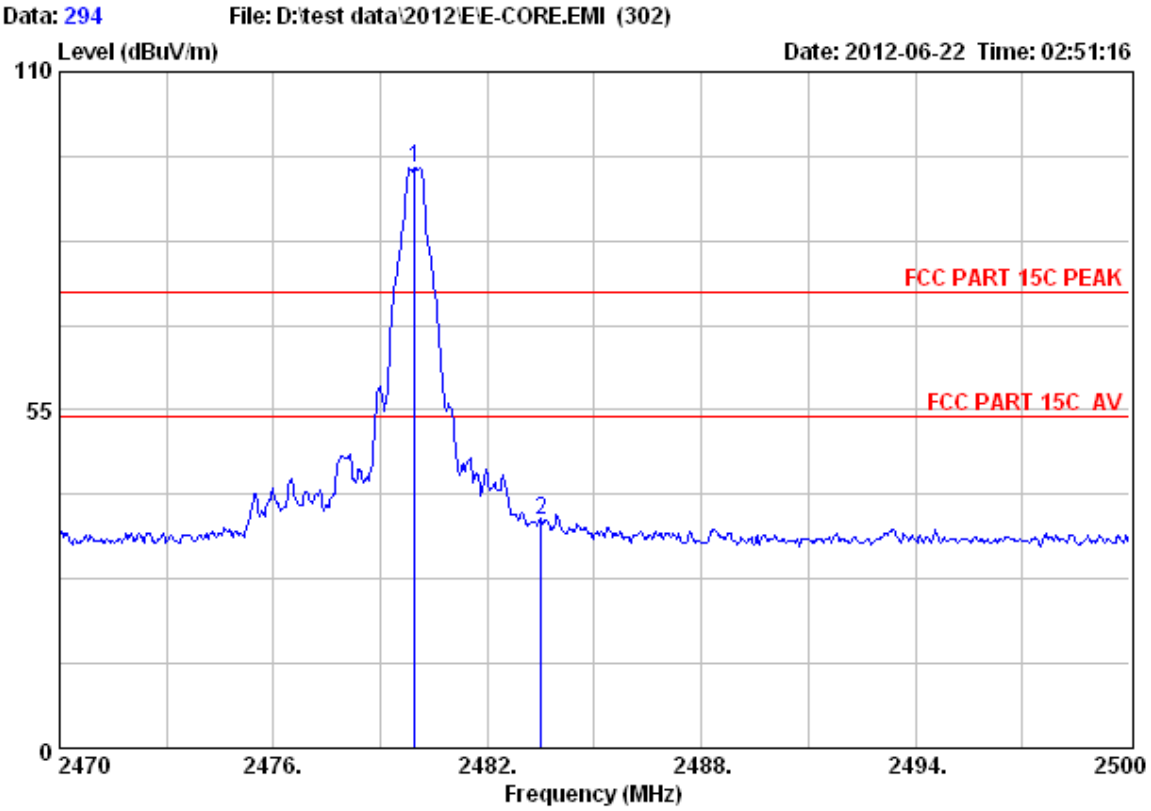
Site no. : 3m Chamber Data no. : 293
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.96	27.58	6.71	35.16	97.84	96.97	74.00	-22.97	Peak
2	2483.50	27.58	6.71	35.16	39.62	38.75	74.00	35.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



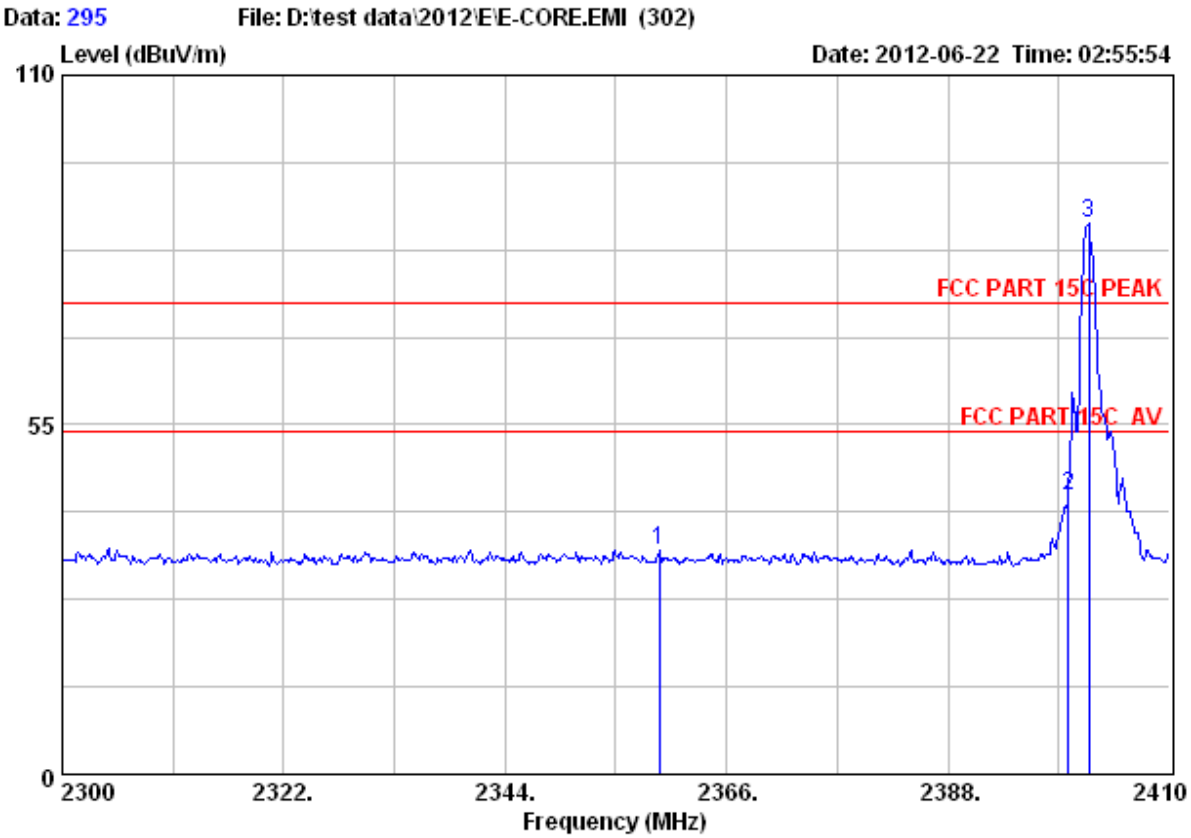

```
Site no.      : 3m Chamber                  Data no. : 294
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Baby bluetooth speaker
Power         : DC 3.7V
M/N           : HT2009
Test Mode     : GFSK TX 2480MHz
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.96	27.58	6.71	35.16	95.29	94.42	74.00	-20.42	Peak
2	2483.50	27.58	6.71	35.16	38.00	37.13	74.00	36.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



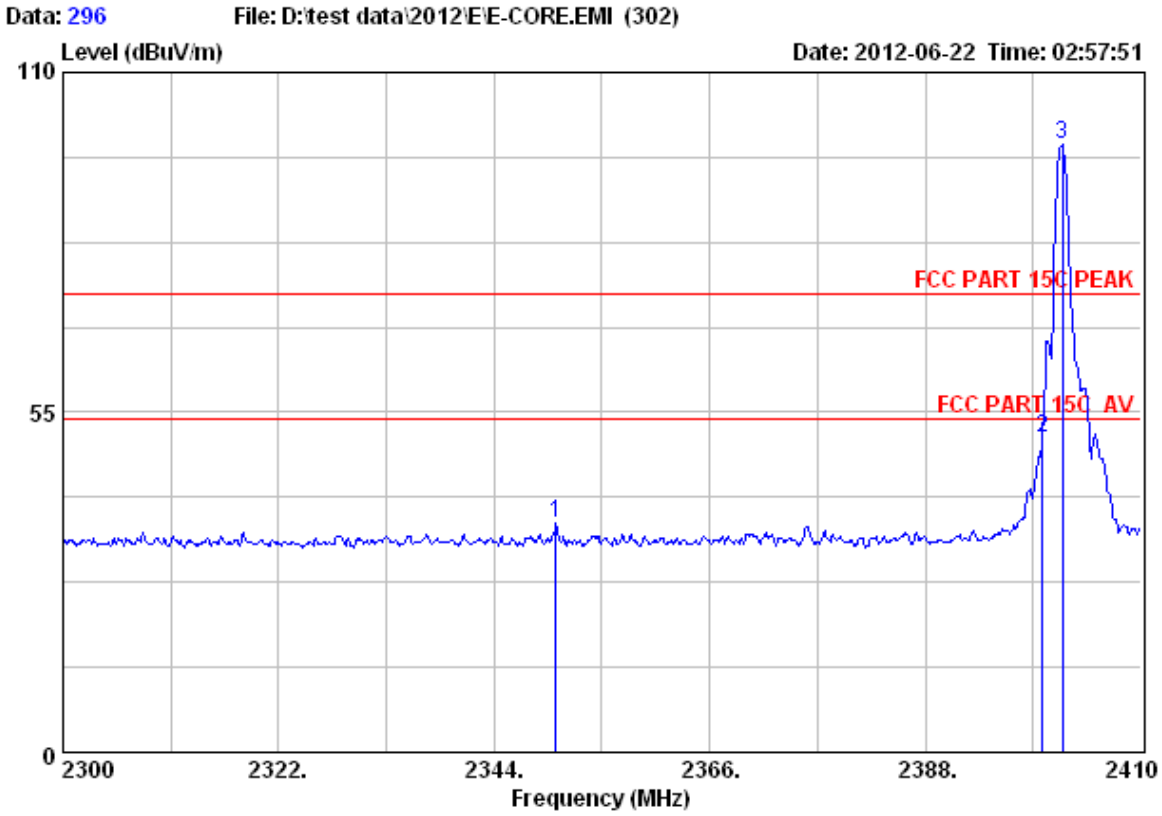
Site no. : 3m Chamber Data no. : 295
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2359.29	27.67	6.58	35.19	36.17	35.23	74.00	38.77	Peak
2	2400.00	27.61	6.62	35.18	44.81	43.86	74.00	30.14	Peak
3	2401.97	27.61	6.62	35.18	87.61	86.66	74.00	-12.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



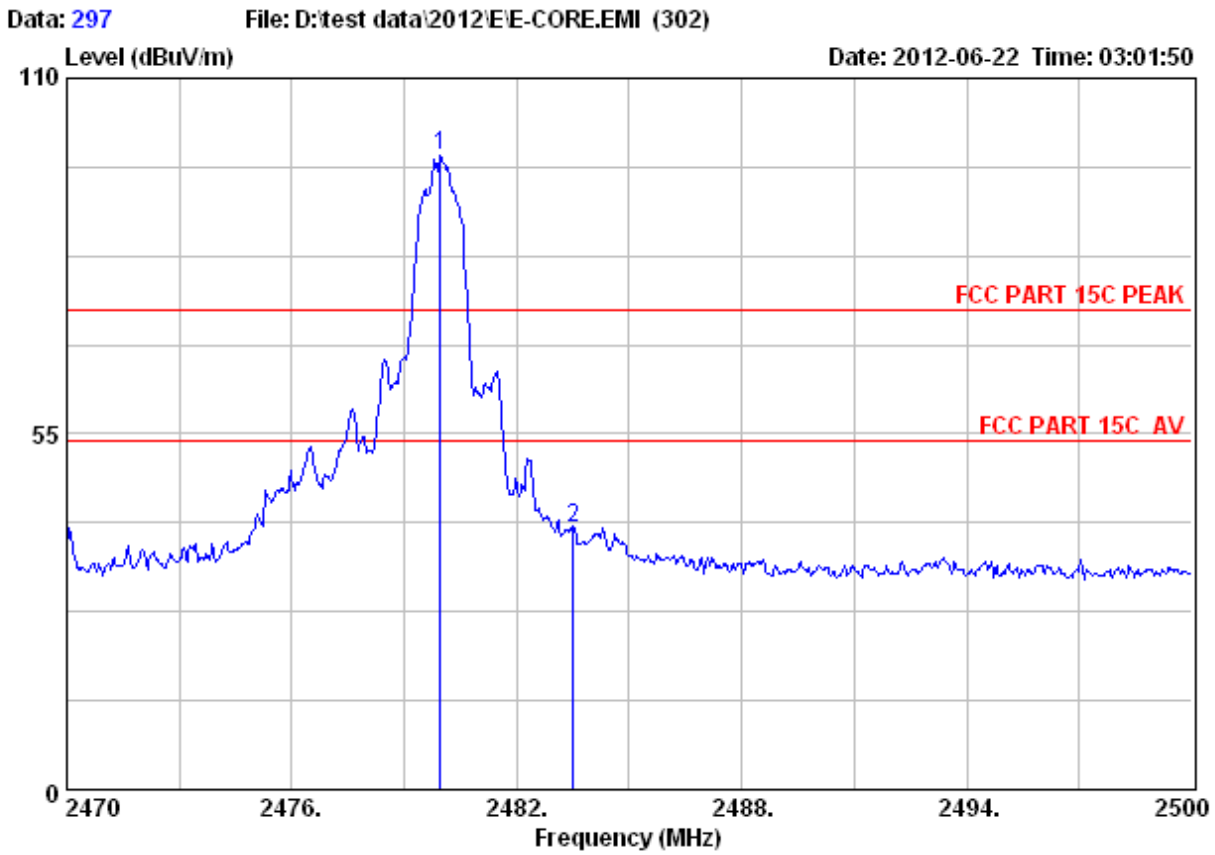
Site no. : 3m Chamber Data no. : 296
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2350.27	27.70	6.56	35.19	37.87	36.94	74.00	37.06	Peak
2	2400.00	27.61	6.62	35.18	51.74	50.79	74.00	23.21	Peak
3	2401.97	27.61	6.62	35.18	99.23	98.28	74.00	-24.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



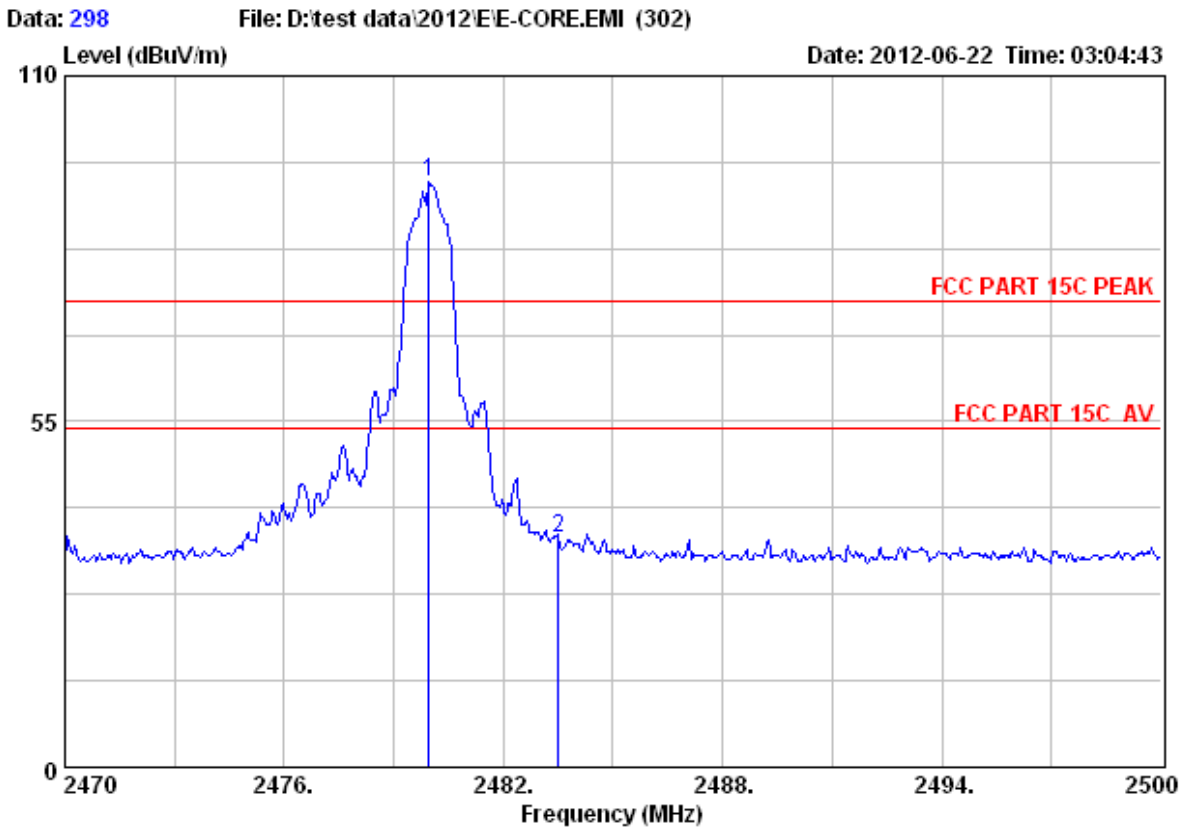
Site no. : 3m Chamber Data no. : 297
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.96	27.58	6.71	35.16	98.81	97.94	74.00	-23.94	Peak
2	2483.50	27.58	6.71	35.16	41.41	40.54	74.00	33.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



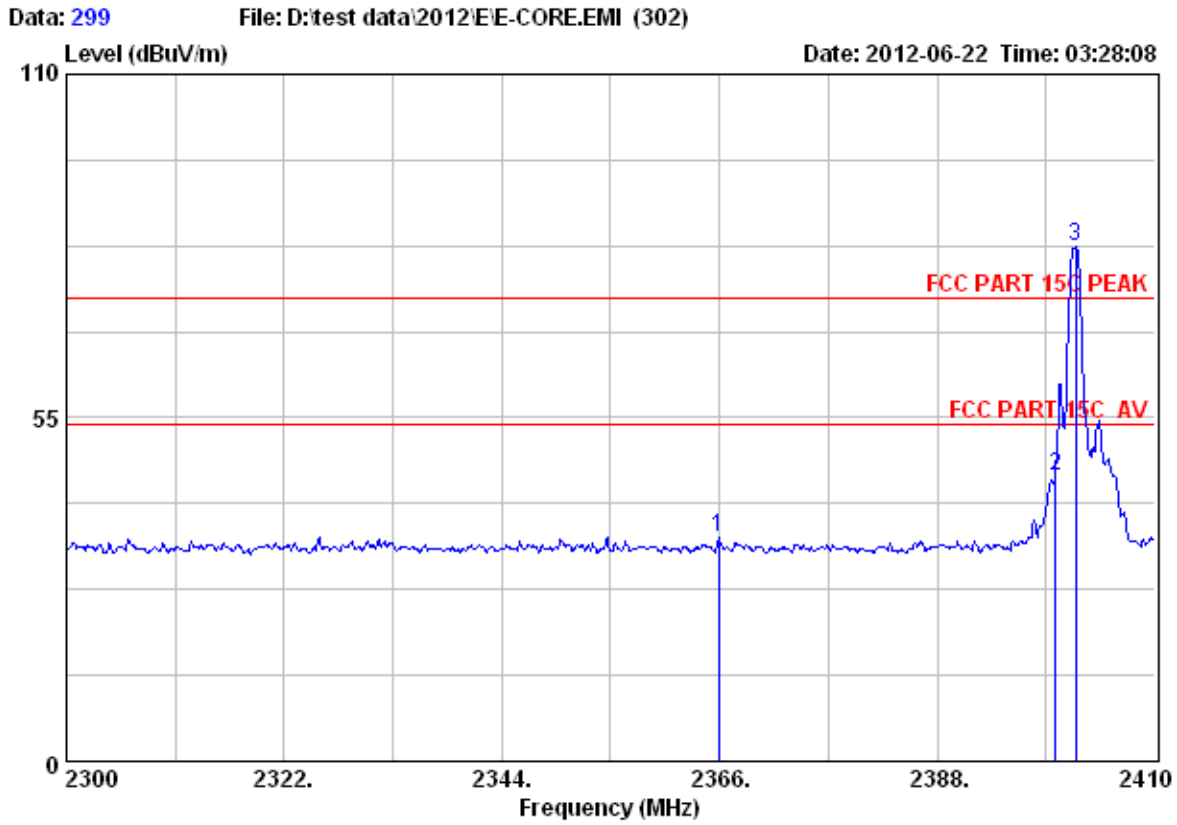
Site no. : 3m Chamber Data no. : 298
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : π/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.96	27.58	6.71	35.16	93.92	93.05	74.00	-19.05	Peak
2	2483.50	27.58	6.71	35.16	37.22	36.35	74.00	37.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



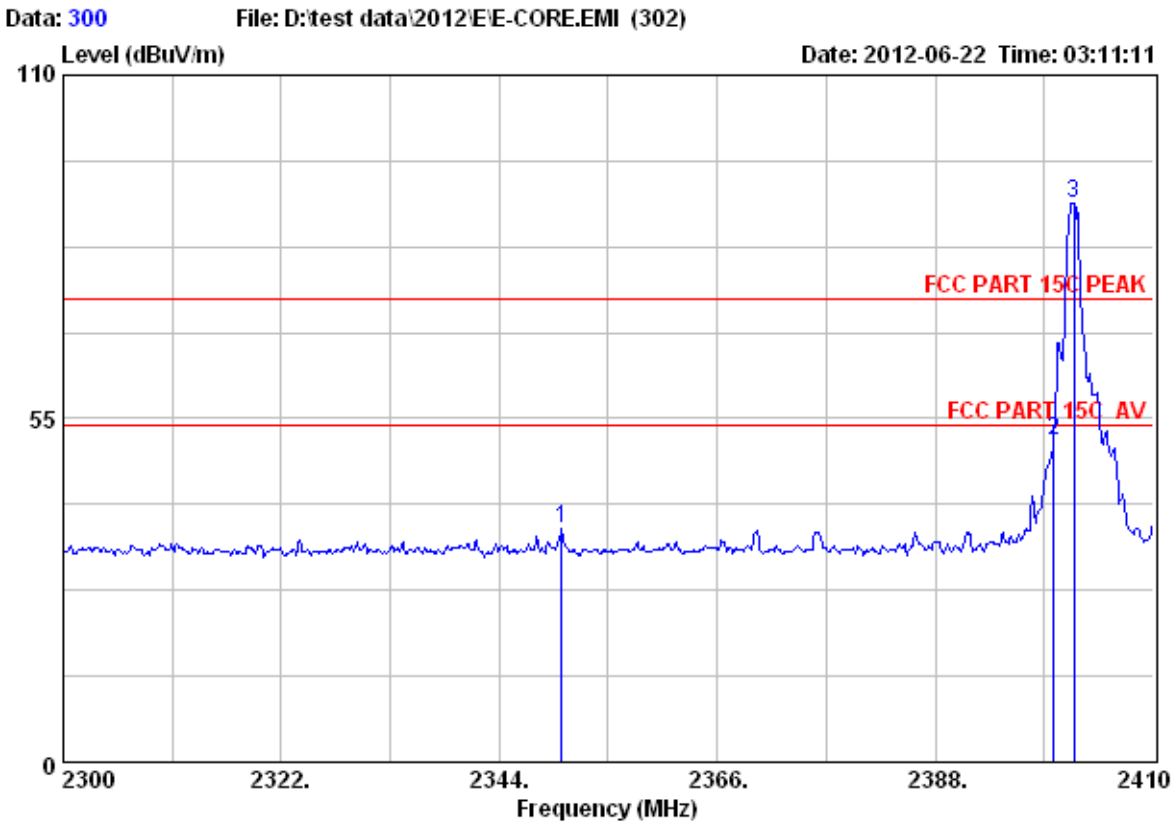
Site no. : 3m Chamber Data no. : 299
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2365.89	27.67	6.58	35.19	36.91	35.97	74.00	38.03	Peak
2	2400.00	27.61	6.62	35.18	46.53	45.58	74.00	28.42	Peak
3	2401.97	27.61	6.62	35.18	83.37	82.42	74.00	-8.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



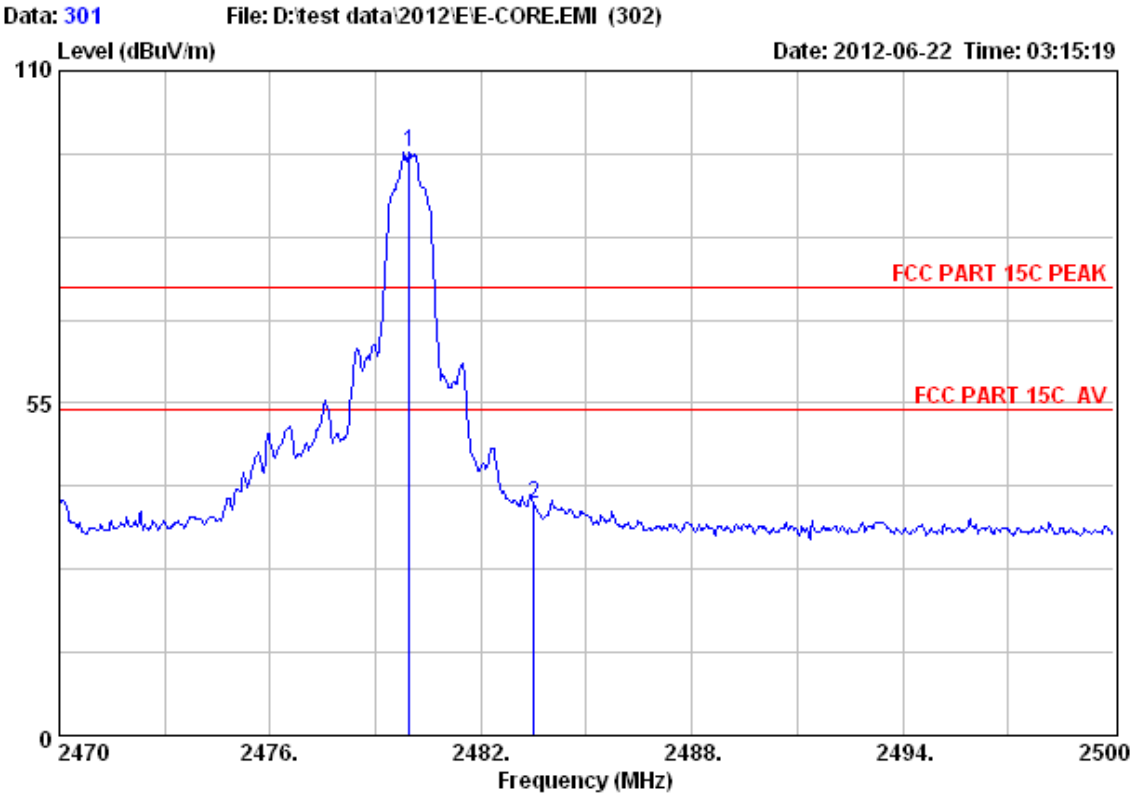
Site no. : 3m Chamber Data no. : 300
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2350.27	27.70	6.56	35.19	38.31	37.38	74.00	36.62	Peak
2	2400.00	27.61	6.62	35.18	52.45	51.50	74.00	22.50	Peak
3	2401.97	27.61	6.62	35.18	90.45	89.50	74.00	-15.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



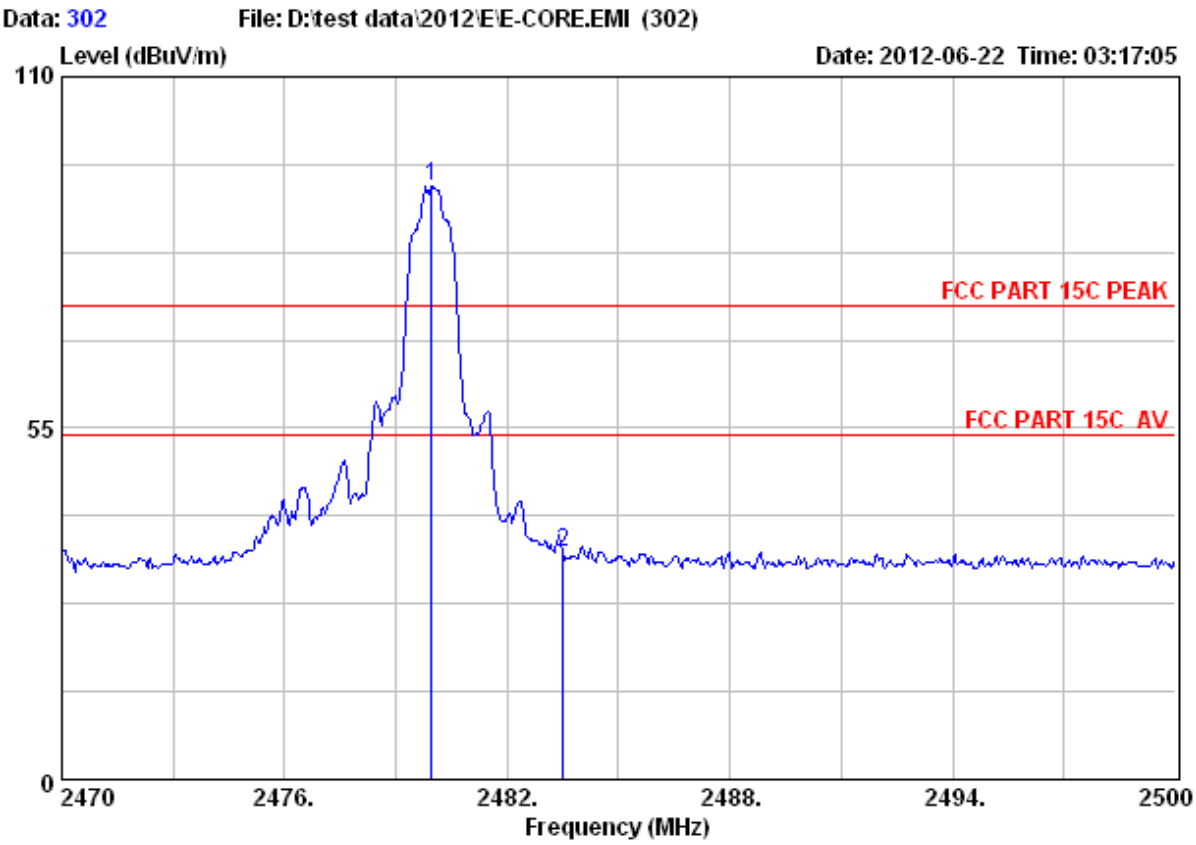
Site no. : 3m Chamber Data no. : 301
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.96	27.58	6.71	35.16	97.37	96.50	74.00	-22.50	Peak
2	2483.50	27.58	6.71	35.16	39.19	38.32	74.00	35.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

San Tun Management Zone,Houjie Town,
Dongguan City,Guangdong,China
Tel:+86-769-83081888
Fax:+86-769-83081878



Site no. : 3m Chamber Data no. : 302
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Baby bluetooth speaker
Power : DC 3.7V
M/N : HT2009
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.96	27.58	6.71	35.16	93.81	92.94	74.00	-18.94	Peak
2	2483.50	27.58	6.71	35.16	36.30	35.43	74.00	38.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

10. ANTENNA REQUIREMENTS

10.1. Limit

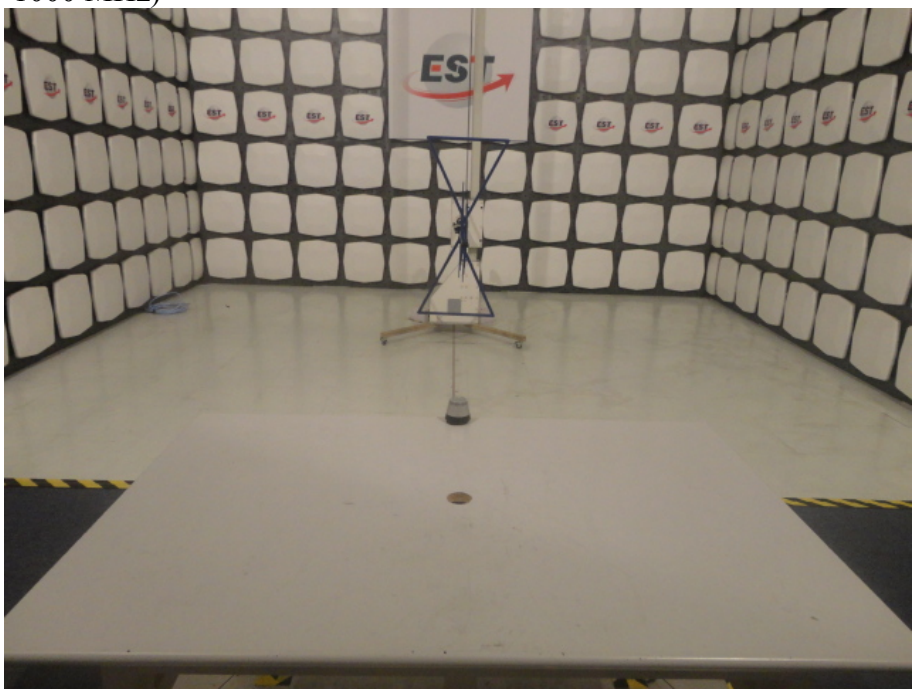
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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.

10.2. Result

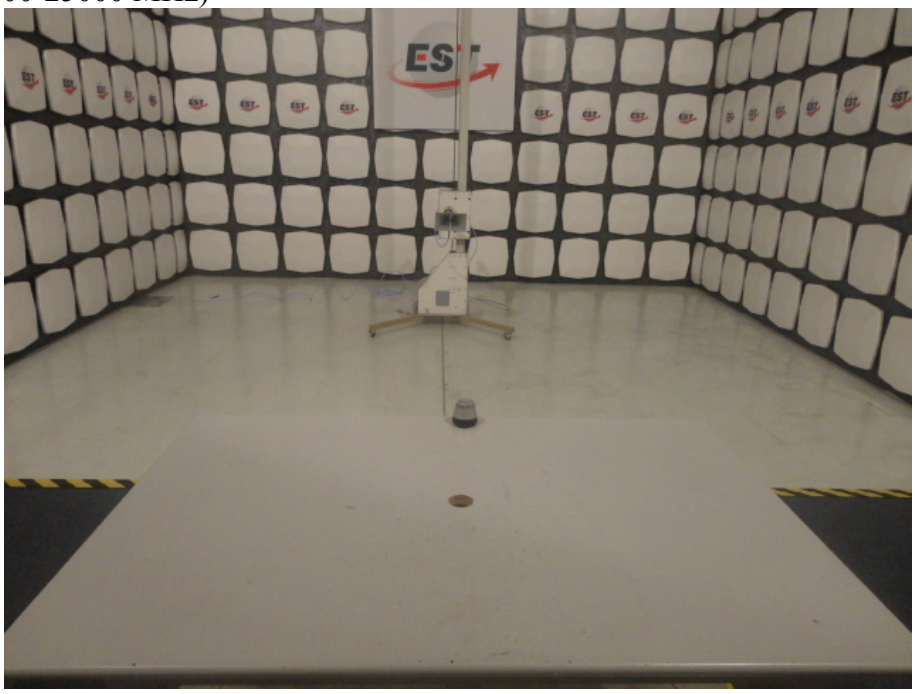
The antennas used for this product are integral Patch Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

11. TEST SETUP PHOTO

Radiated Test (30-1000 MHz)



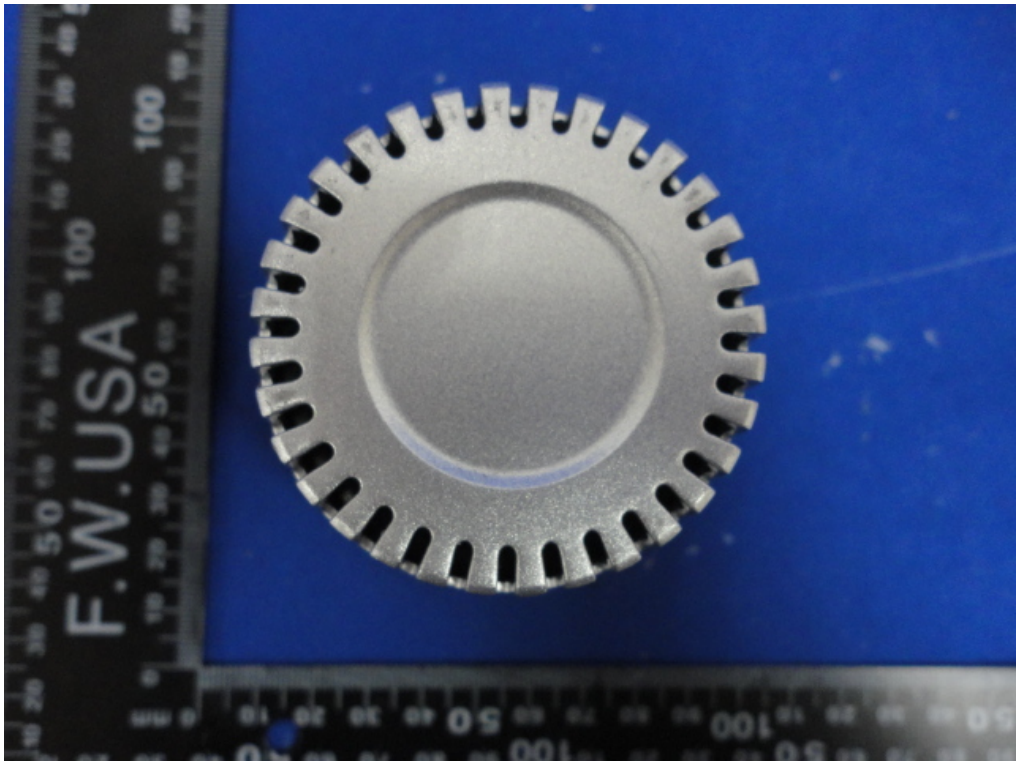
Radiated Test (1000-25000 MHz)

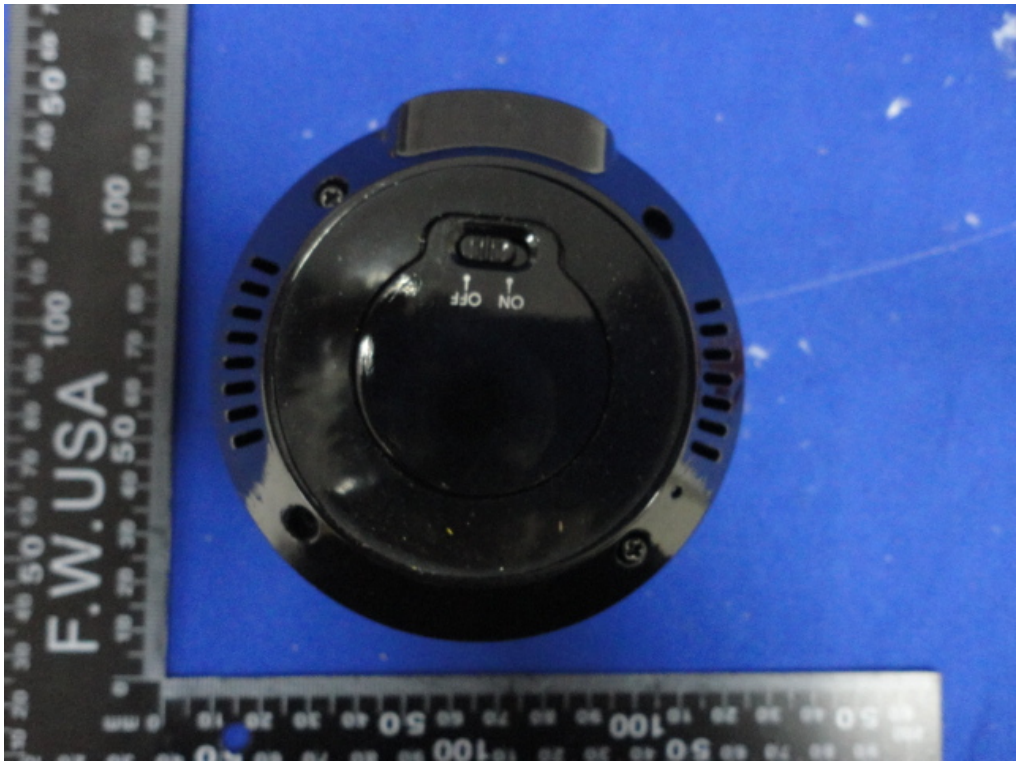


12. PHOTOS OF EUT

External Photos

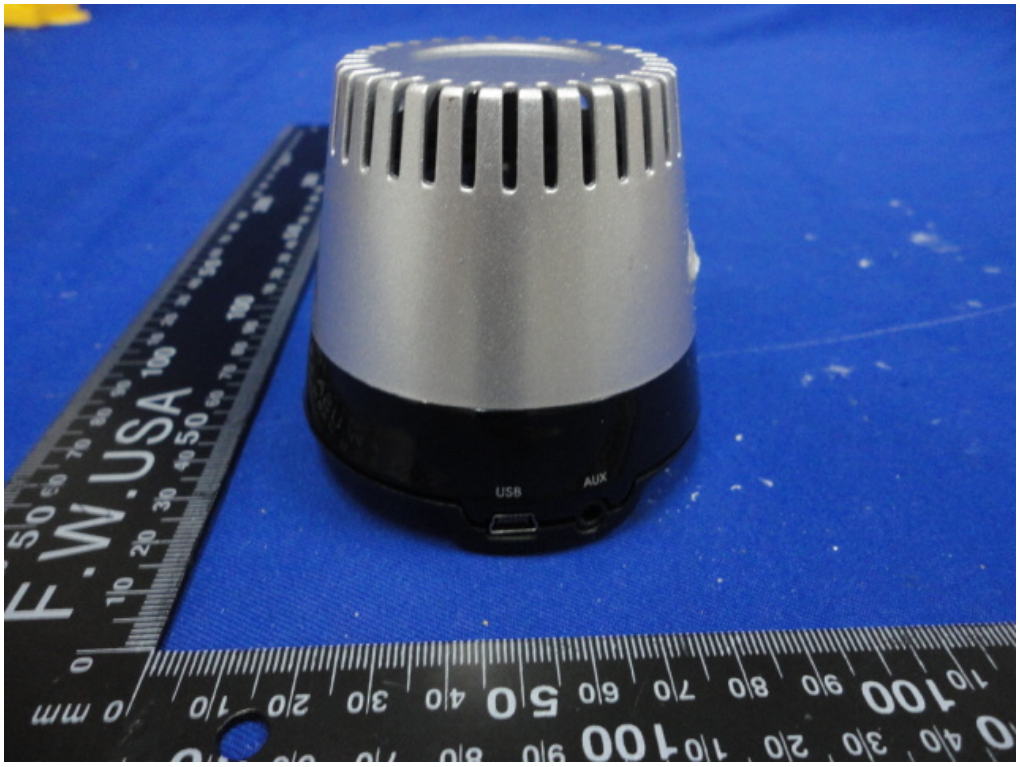
M/N:HT2009

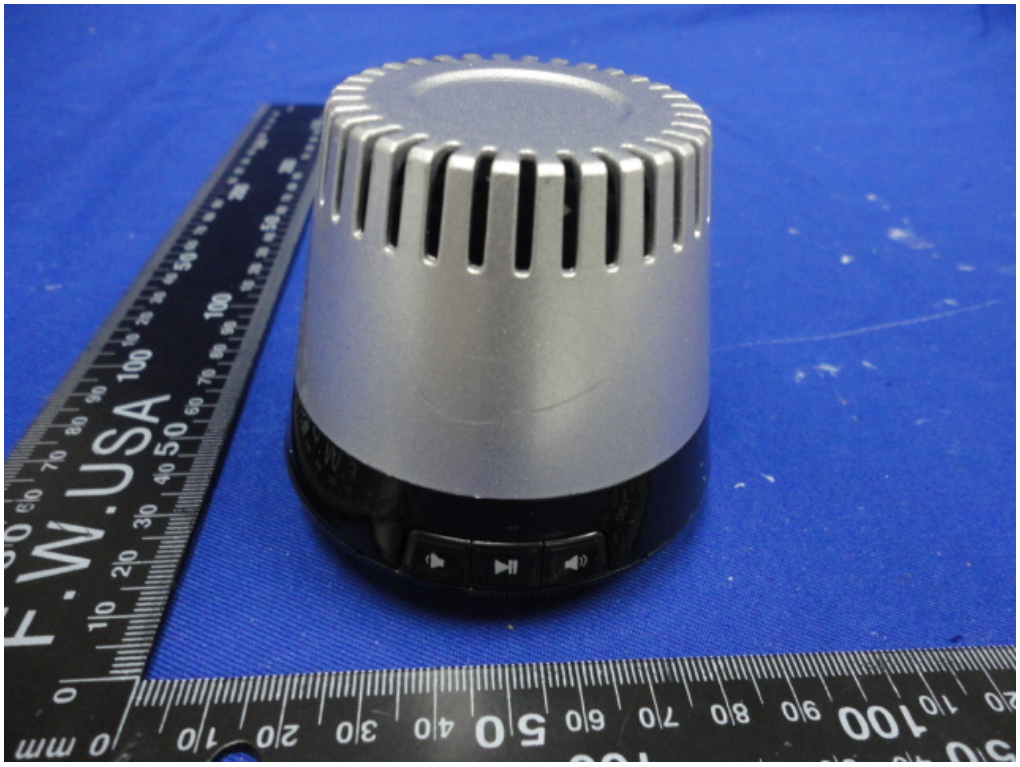




External Photos

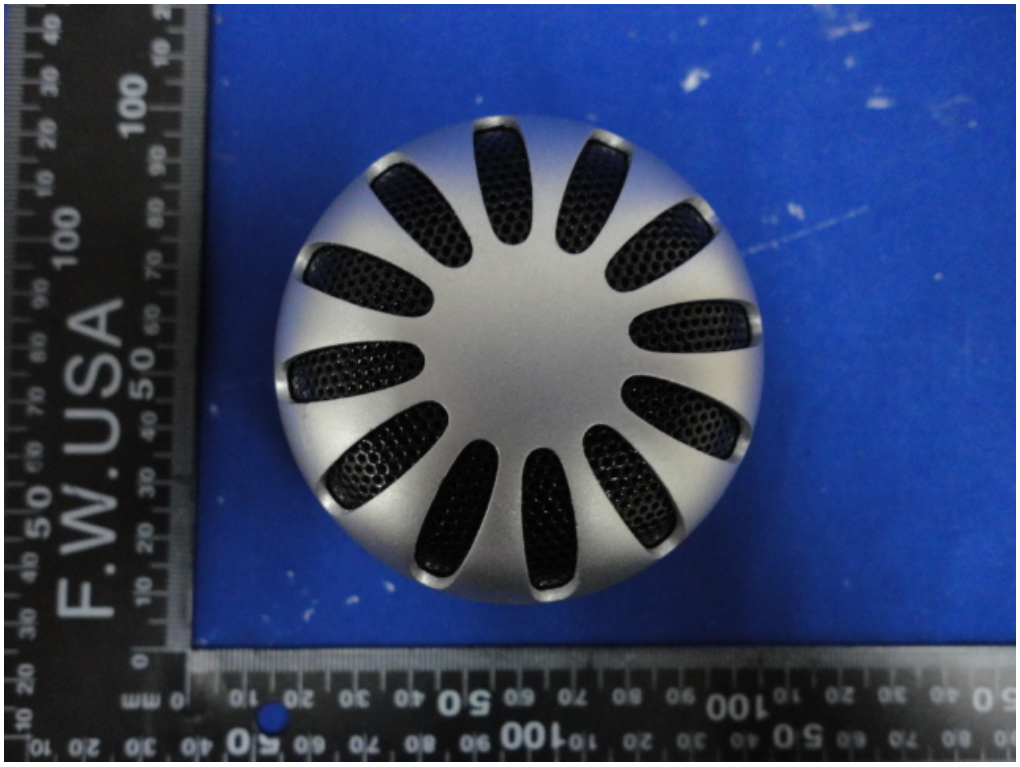
M/N:HT2009

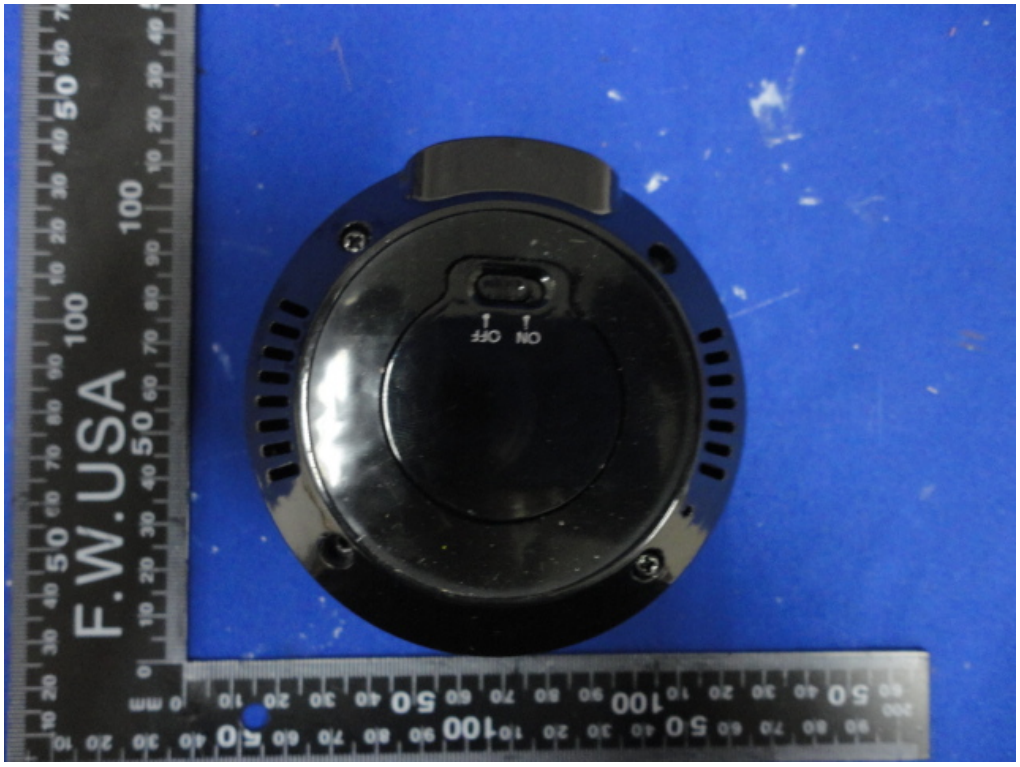




External Photos

M/N:HL2015A

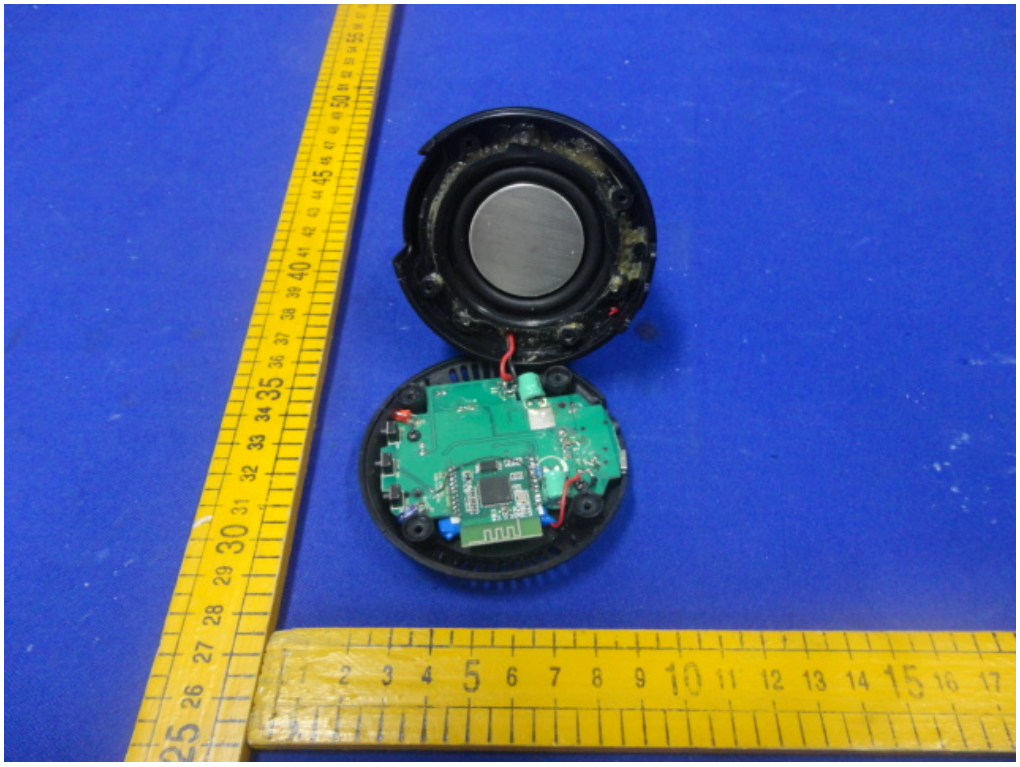


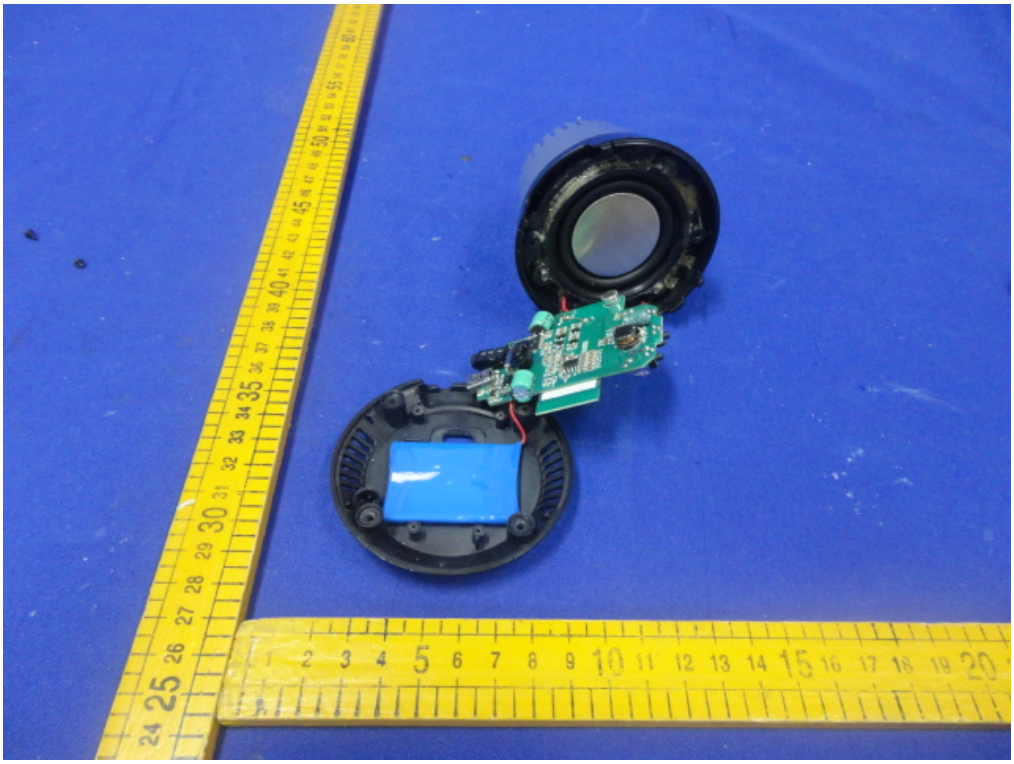


External Photos

M/N:HL2015A

Internal Photos





Internal Photos