

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

ION AUDIO LLC

BT Wireless Speaker

Model Number: Transactive Air

FCC ID: Y4O-LGAC-1

Prepared for : ION AUDIO LLC
200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND,
Rhode Island 02864, United States

Prepared By : EST Technology Co., Ltd.
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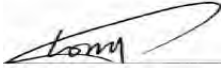
Report Number: ESTE-R1209001
Date of Test : Aug 19~ Sep 1, 2012
Date of Report : Sep 3, 2012

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Test Report Verification

Applicant:	ION AUDIO LLC		
Address:	200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND, Rhode Island 02864, United States		
Manufacturer:	ION AUDIO LLC		
Address:	200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND, Rhode Island 02864, United States		
E.U.T:	BT Wireless Speaker		
Model Number:	Transactive Air		
Power Supply:	AC 120V/60Hz		
Test Voltage:	AC 120V/60Hz		
Trade Name:	ALESIS	Serial No.:	-----
Date of Receipt:	Aug 9, 2012	Date of Test:	Aug 19~ Sep 1, 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: Sep 3, 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 : BT Wireless Speaker

Model Number : Transactive Air

FCC ID : Y4O-LGAC-1

Operation frequency : 2402MHz~2480MHz

Number of channel : 79

Antenna : SMA Antenna; 2.5 dBi gain

Modulation : FHSS (GFSK, $\pi/4$ -DQPSK, 8-DPSK)

Power Supply : AC 120V/60Hz

Applicant : ION AUDIO LLC
200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND,
Rhode Island 02864, United States

Manufacturer : ION AUDIO LLC
200 SCENIC VIEW DRIVE, SUITE 201, CUMBERLAND,
Rhode Island 02864, United States

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 : Santun Management Zone, Houjie District, 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 software before test.



2.5. Test mode

The test software 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
$\pi/4$ -DQPSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz
8-DPSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz

2.6. Test Equipment

2.6.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	May,30,12	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	May,30,12	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	Aug 1,12	1 Year

2.6.2. 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,1,12	1 Year

2.6.3. 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-amplifier	AH	PAM-0118	10008	May.08,12	1 Year
Pre-amplifier	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

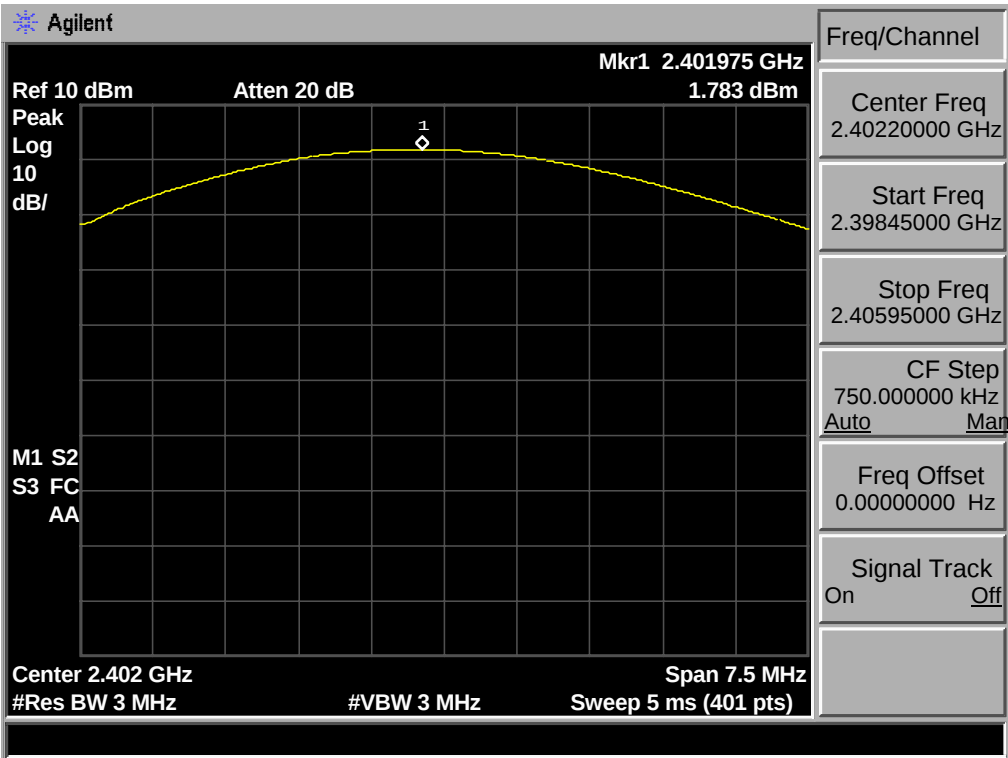
The transmitter output (antenna port) was connected to the spectrum analyzer

3.3. Test Result

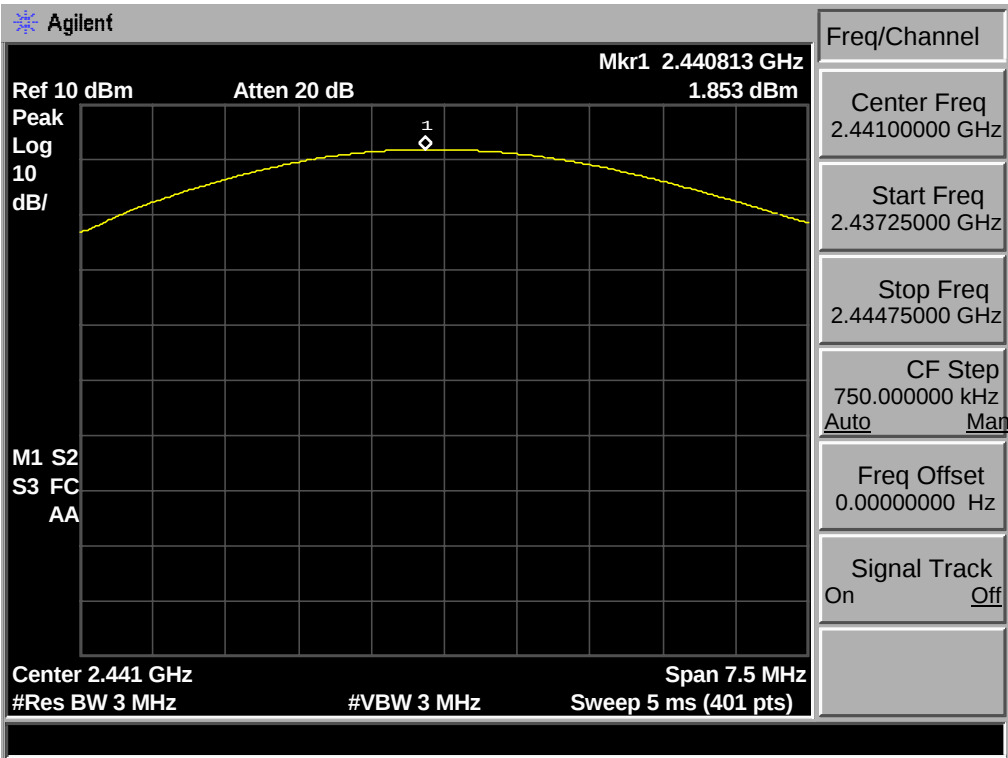
EUT: BT Wireless Speaker M/N:Transavtive Air					
Test date: 2012-9-1		Test site: RF site		Tested by: Tony Tang	
Mode	Freq (MHz)	Result (dBm)	Limit		Margin (dB)
			dBm	W	
GFSK	2402	1.78	21.00	0.125	19.22
	2441	1.85	21.00	0.125	19.15
	2480	2.76	21.00	0.125	18.24
$\pi/4$ -DQPSK	2402	1.18	21.00	0.125	19.82
	2441	1.03	21.00	0.125	19.97
	2480	1.72	21.00	0.125	19.28
8-DPSK	2402	1.28	21.00	0.125	19.72
	2441	1.21	21.00	0.125	19.79
	2480	1.98	21.00	0.125	19.02
Conclusion: PASS					

3.4. Test Data

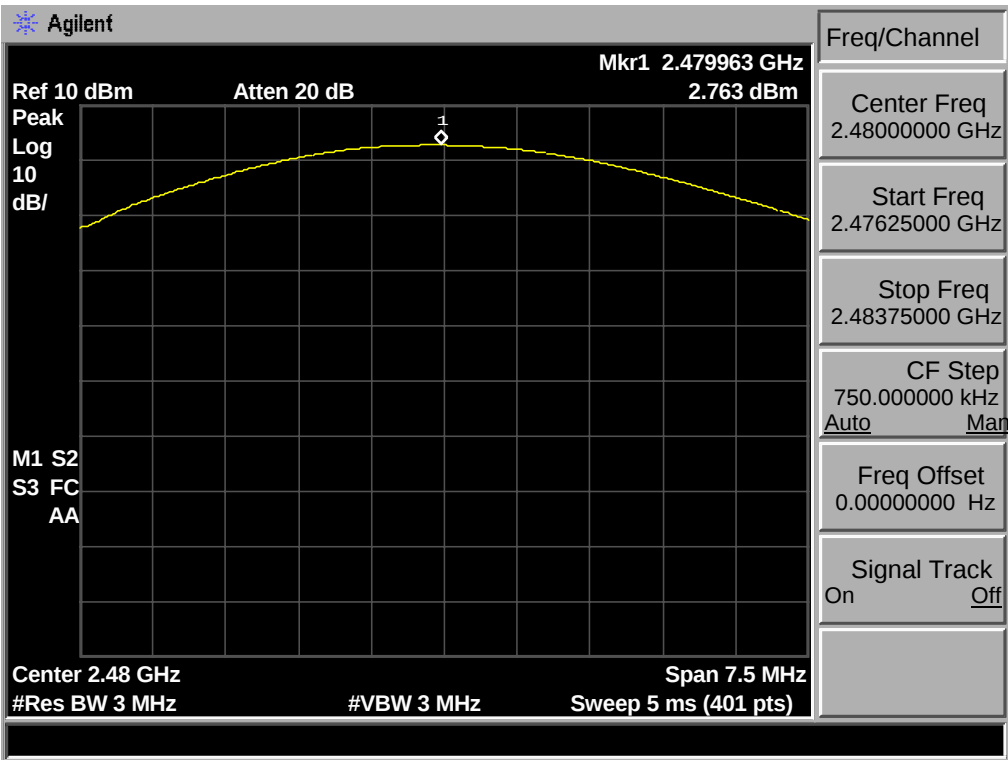
GFSK 2402 MHz



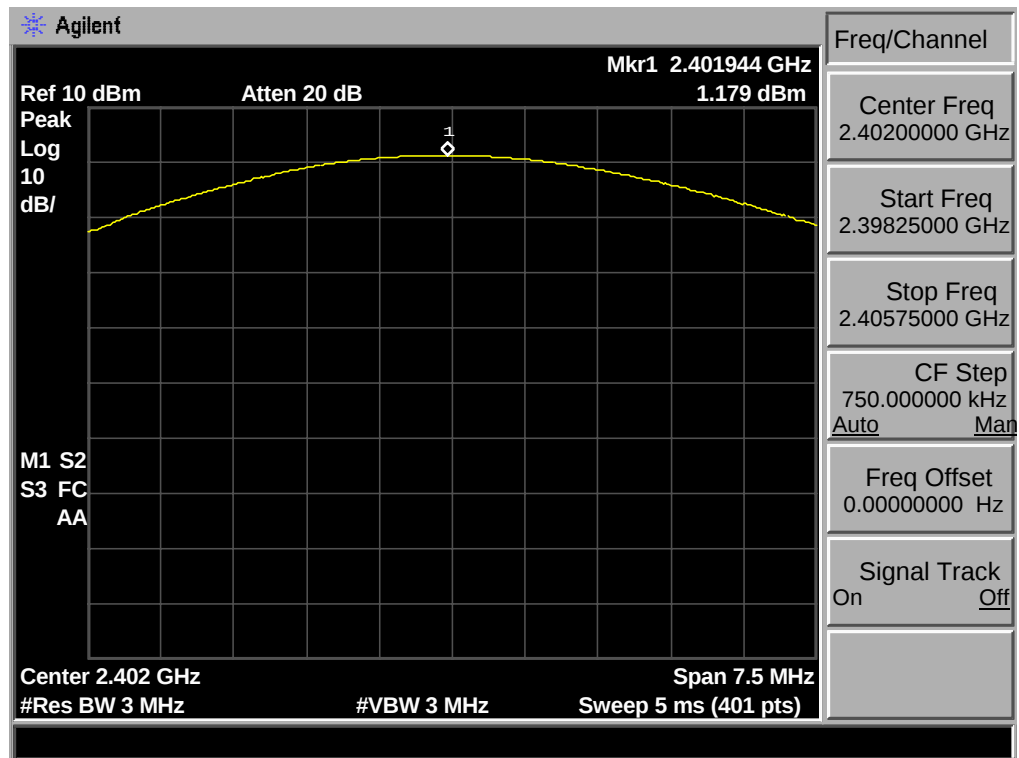
GFSK 2441 MHz



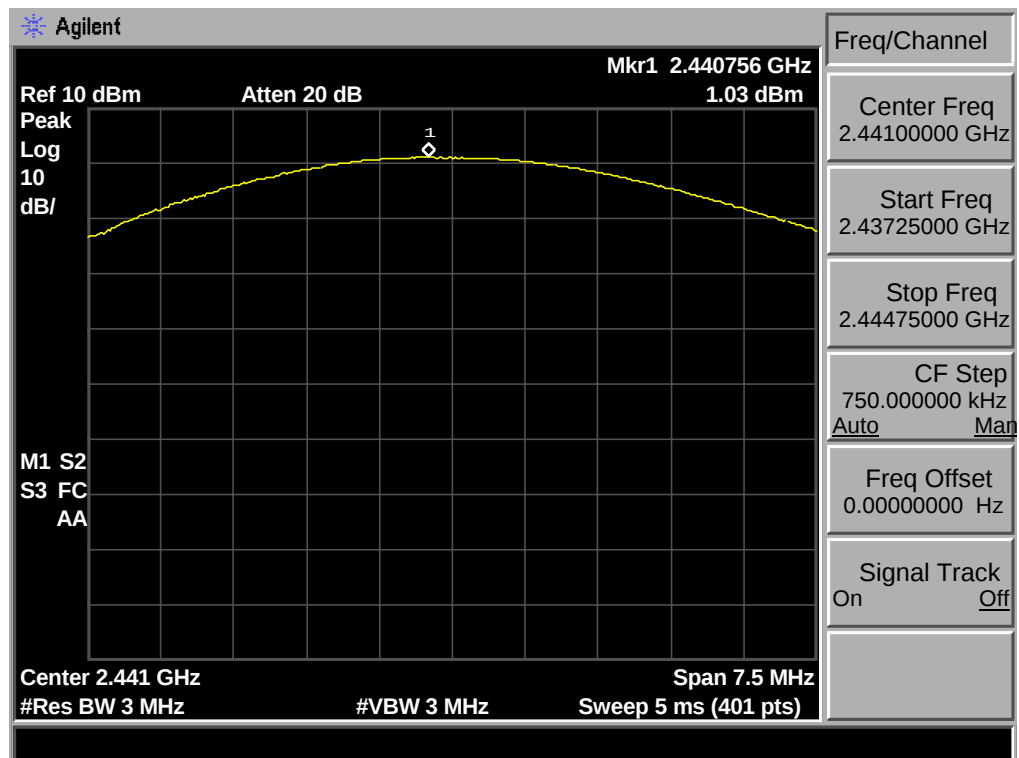
GFSK 2480 MHz



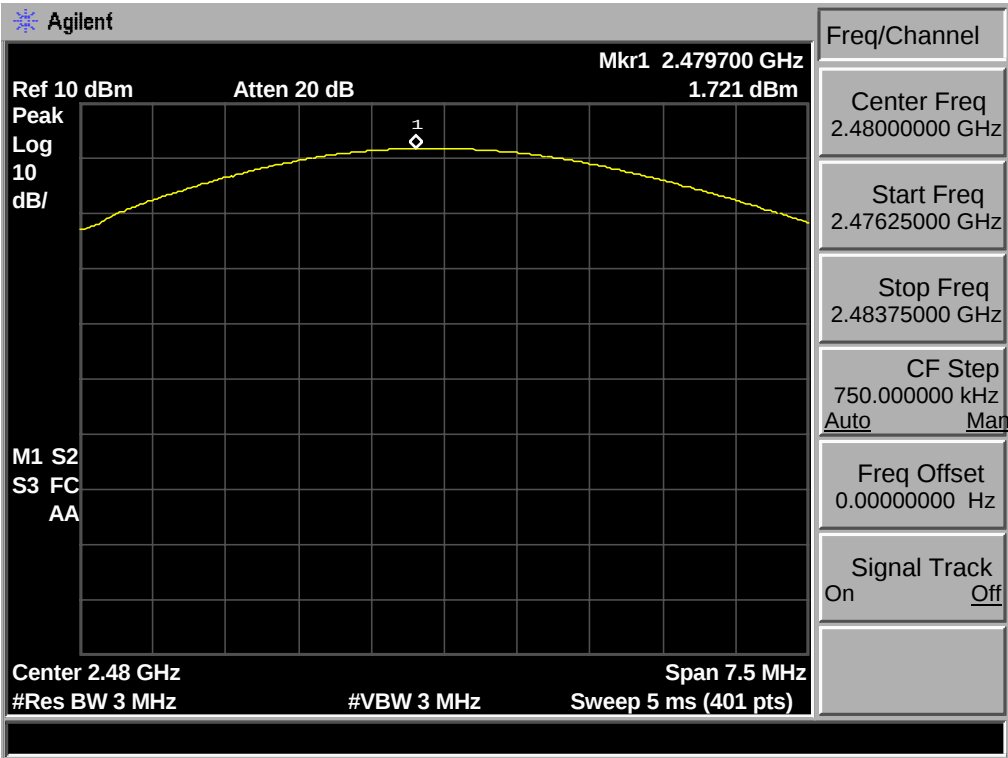
$\pi/4$ -DQPSK 2402MHz



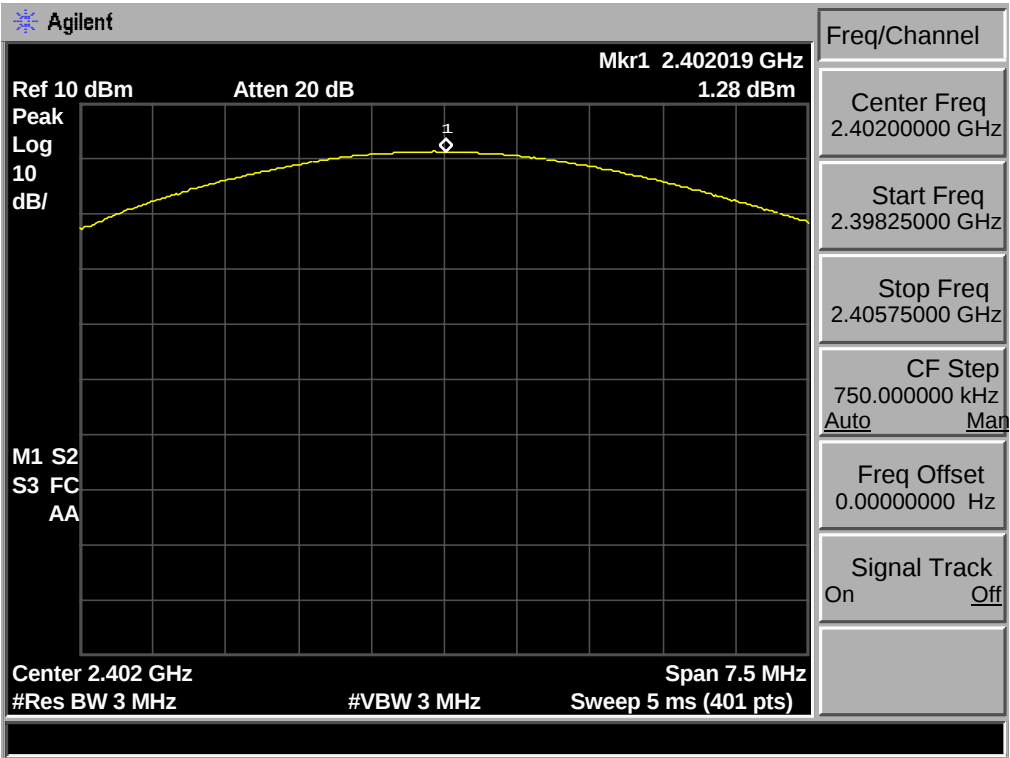
$\pi/4$ -DQPSK 2441MHz



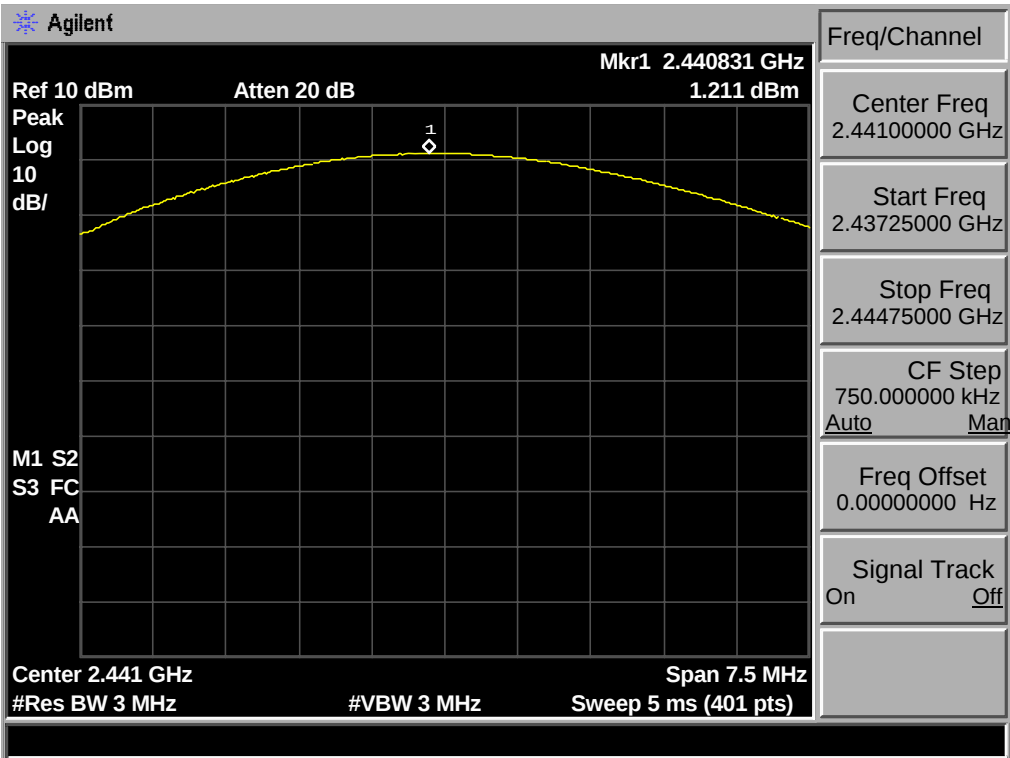
$\pi/4$ -DQPSK 2480MHz



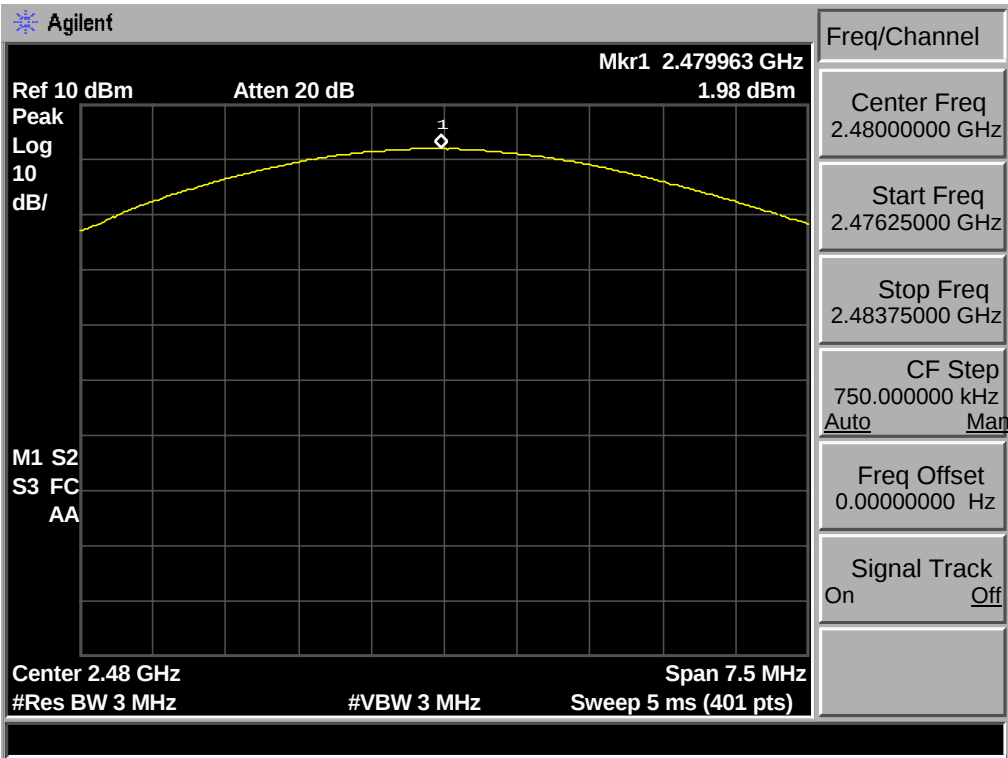
8-DPSK 2402MHz



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

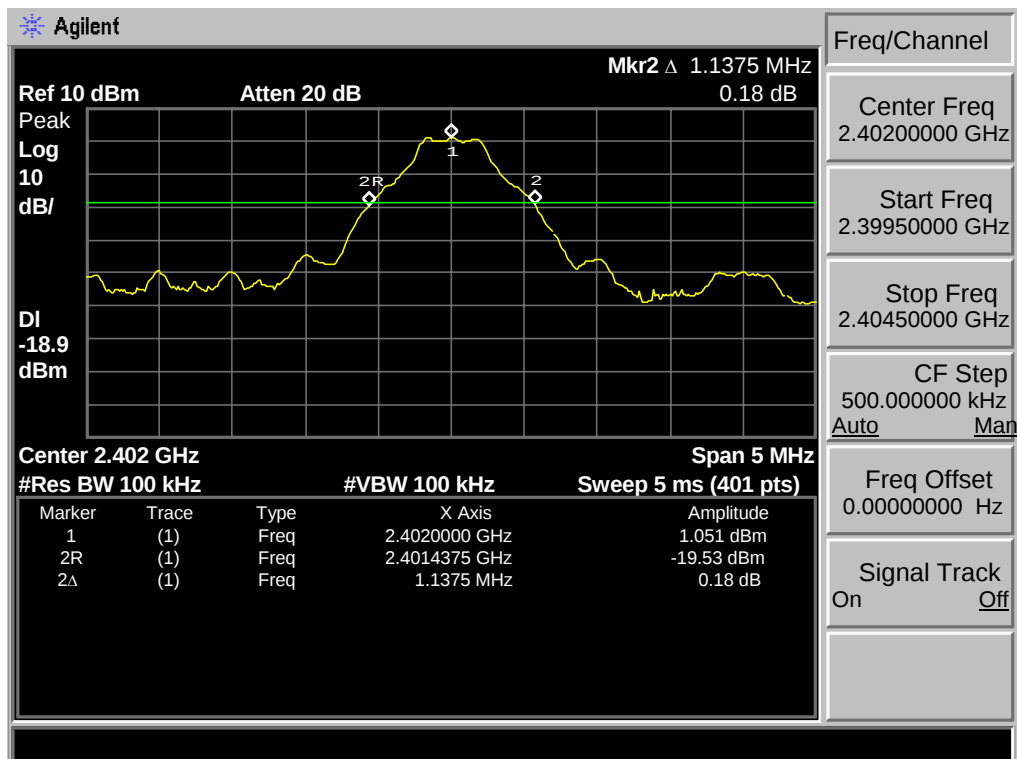
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

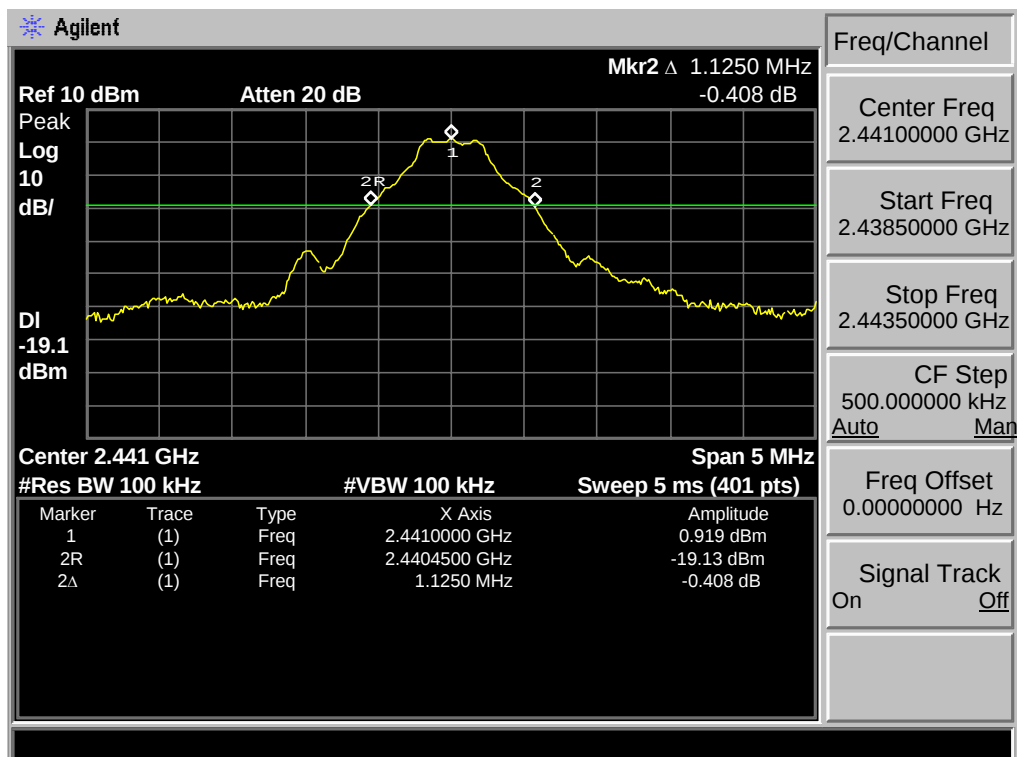
EUT: BT Wireless Speaker M/N:Transavtive Air				
Test date: 2012-9-1		Test site: RF site		Tested by: Tony Tang
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
GFSK	2402	1.1375	/	PASS
	2441	1.1250	/	PASS
	2480	1.1125	/	PASS
$\pi/4$ -DQPSK	2402	1.4375	/	PASS
	2441	1.4250	/	PASS
	2480	1.4125	/	PASS
8-DPSK	2402	1.4500	/	PASS
	2441	1.4500	/	PASS
	2480	1.4250	/	PASS

4.4. Test Data

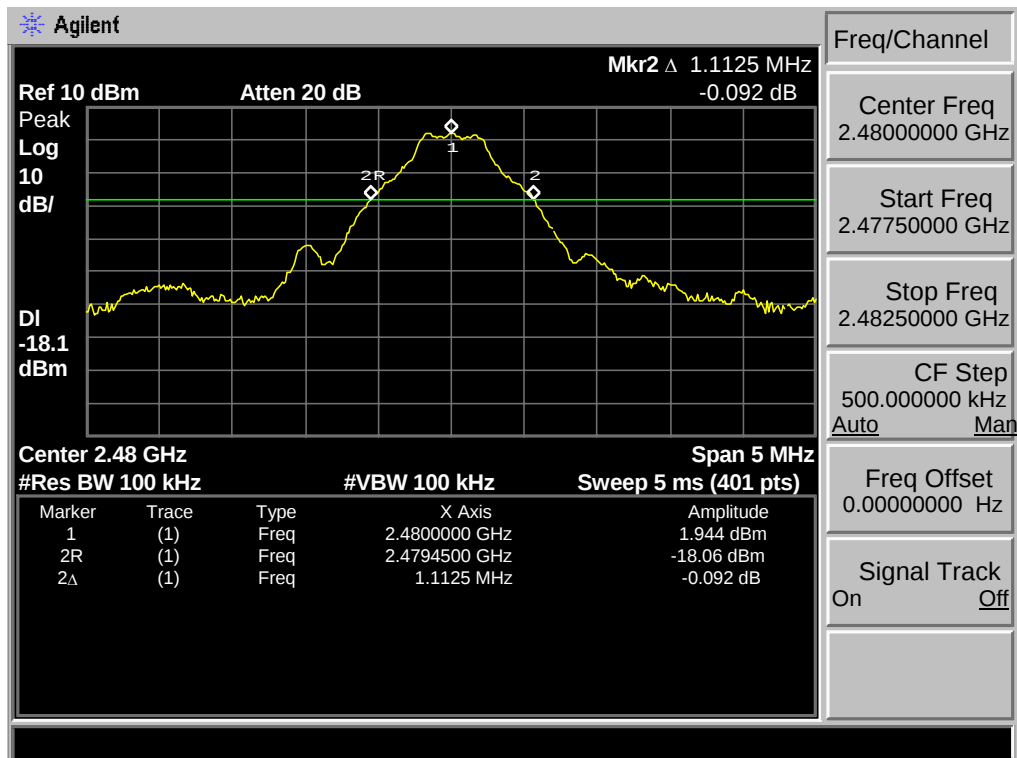
GFSK 2402MHz

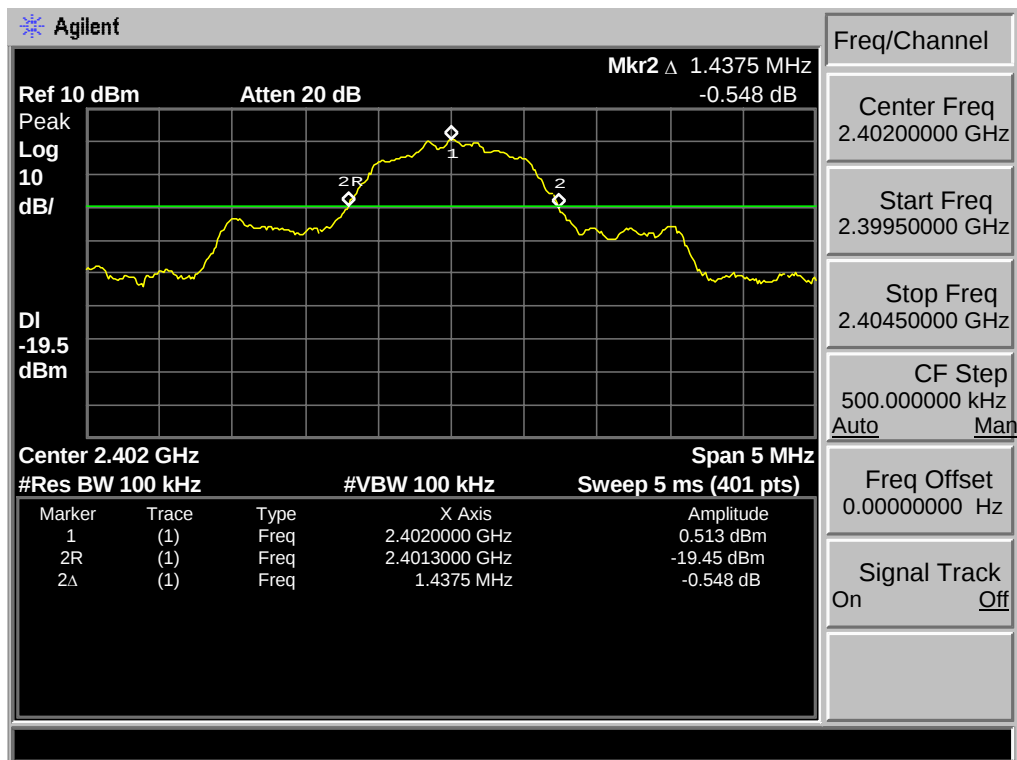
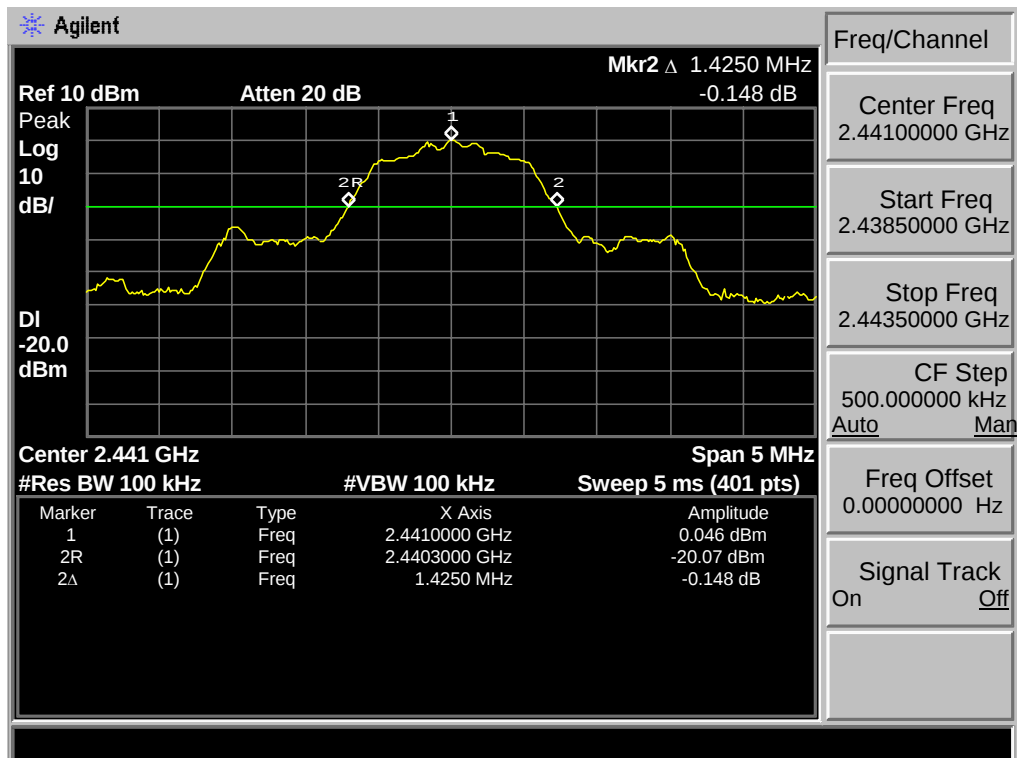


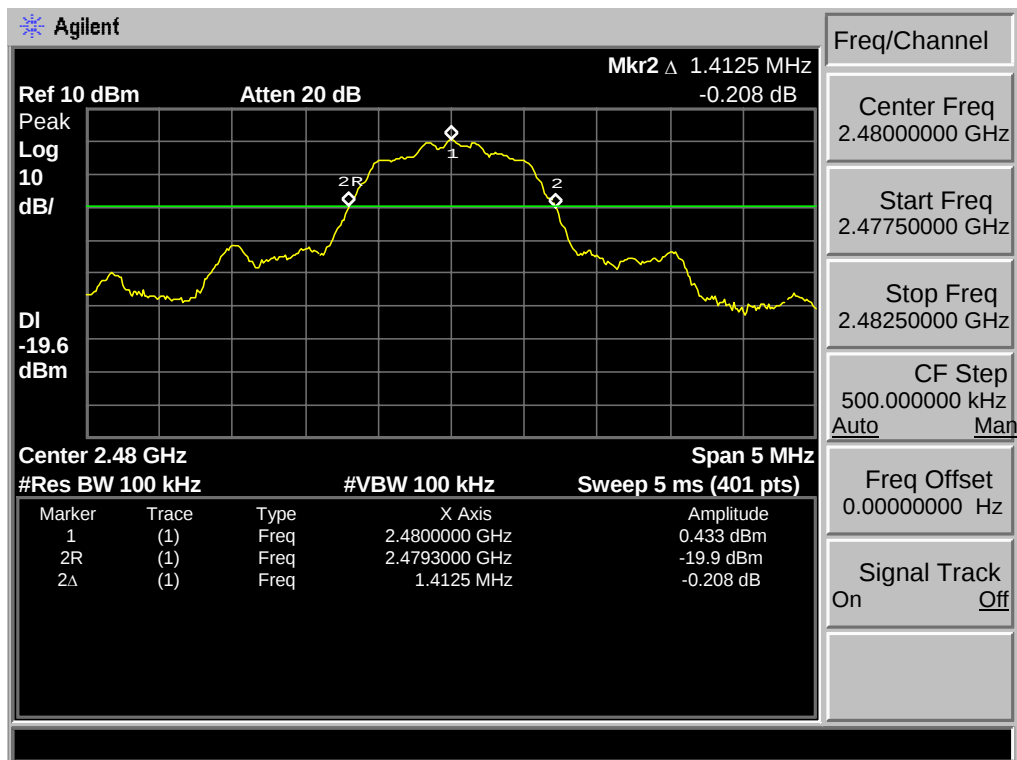
GFSK 2441MHz



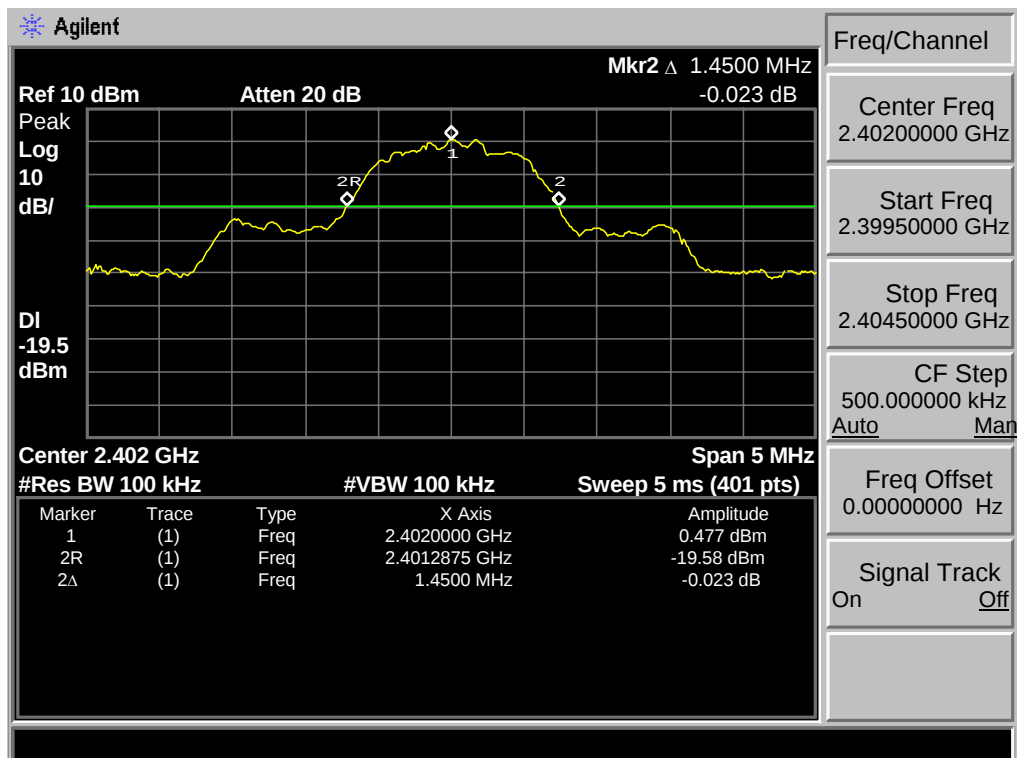
GFSK 2480MHz



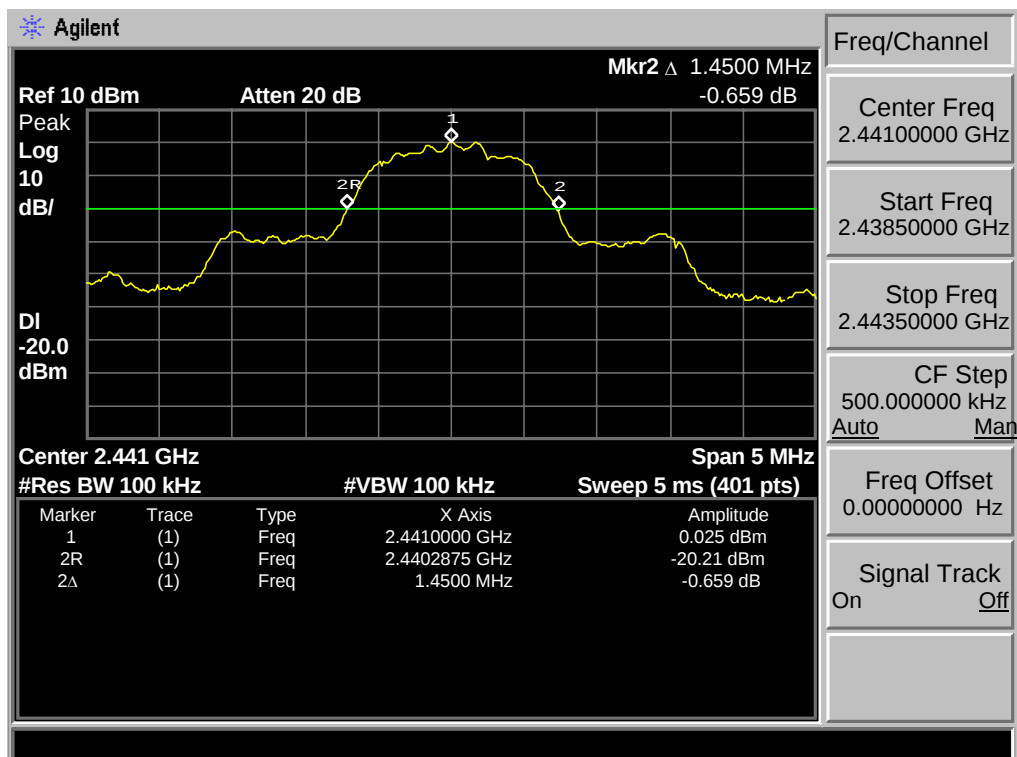
$\pi/4$ -DQPSK 2402MHz $\pi/4$ -DQPSK 2441MHz

$\pi/4$ -DQPSK 2480MHz

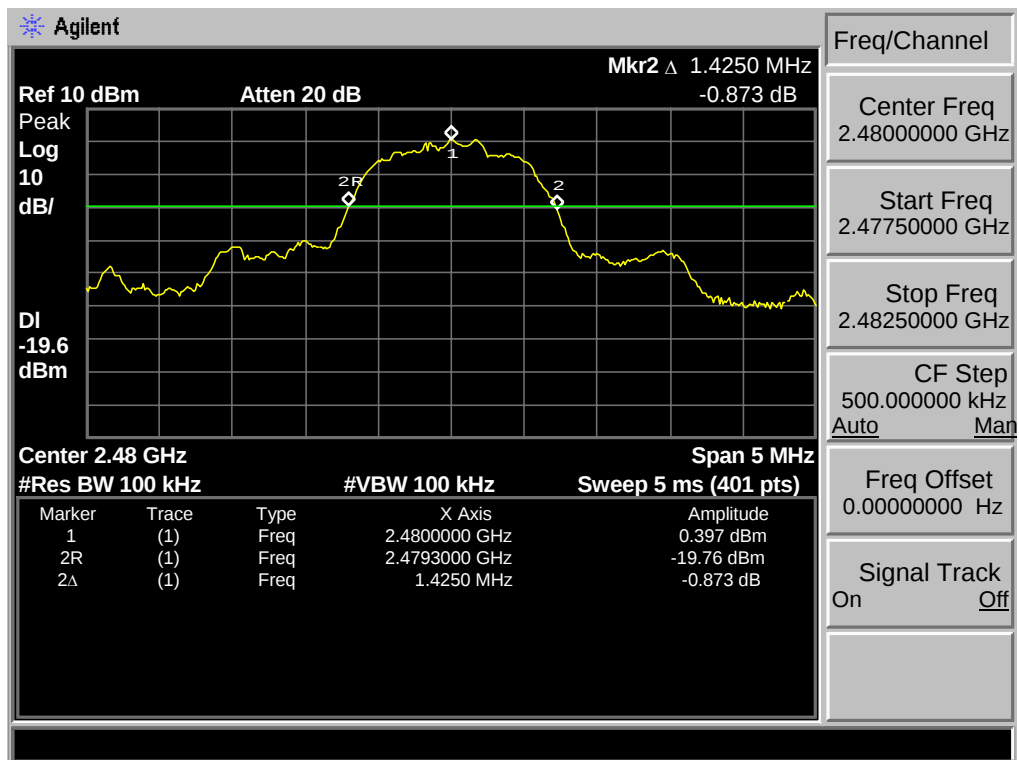
8-DPSK 2402MHz



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.

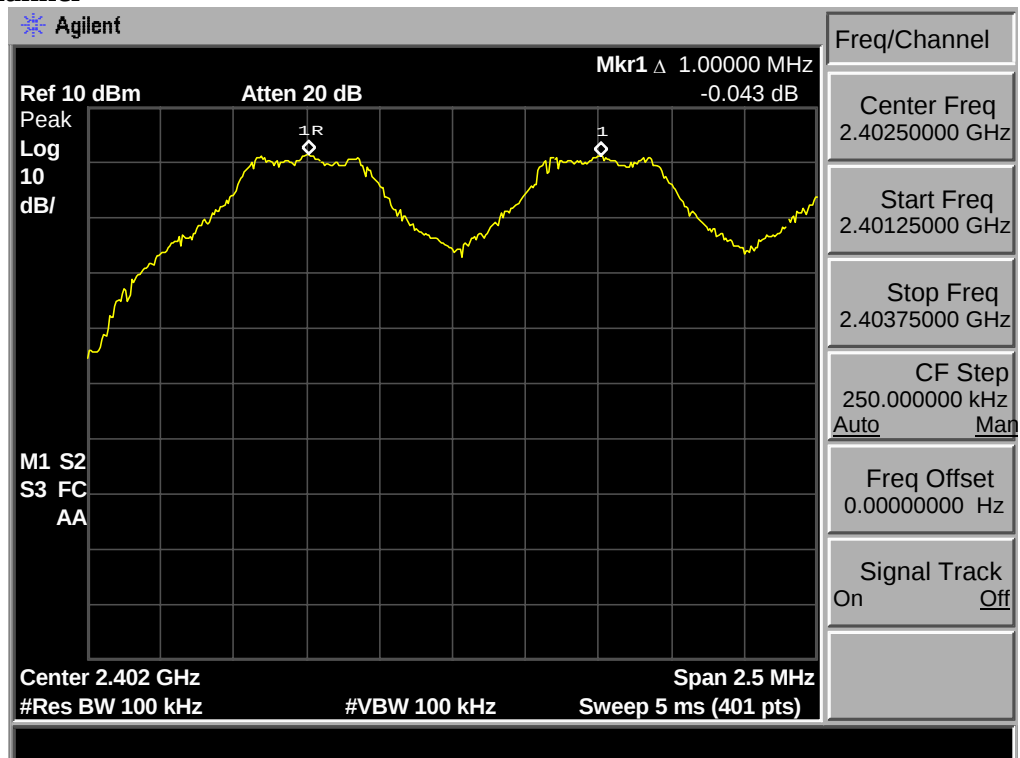
5.3. Test Result

EUT: BT Wireless Speaker M/N:Transavtive Air				
Test date: 2012-9-1		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
$\pi/4$ -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

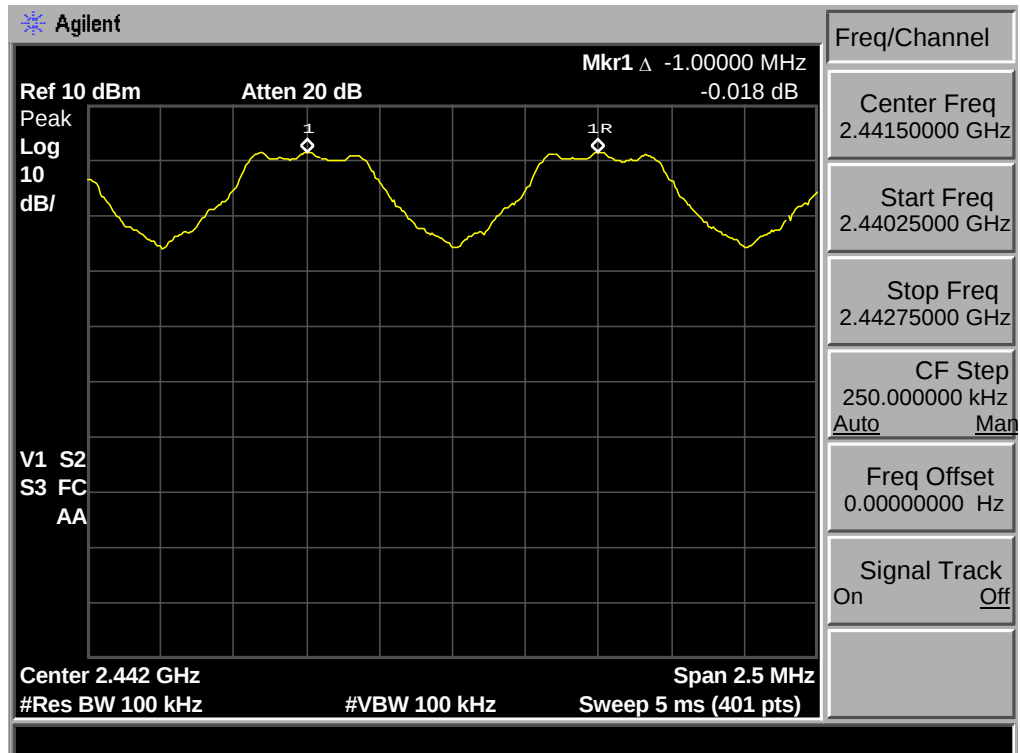
5.4. Test Data

GFSK

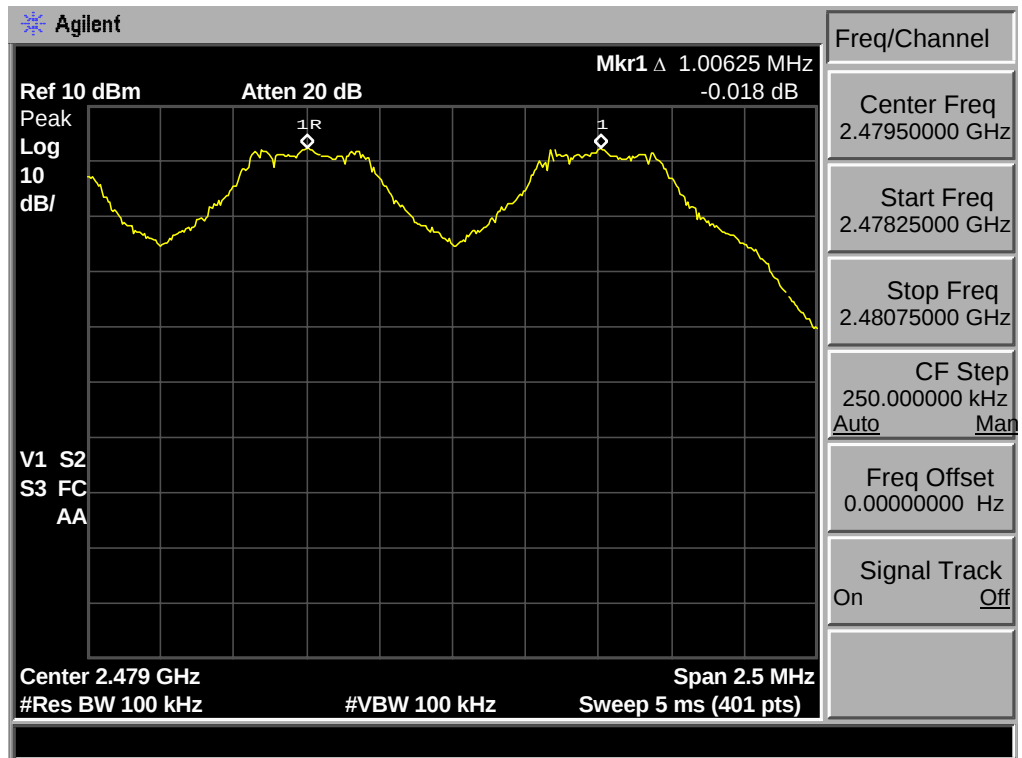
Low Channel



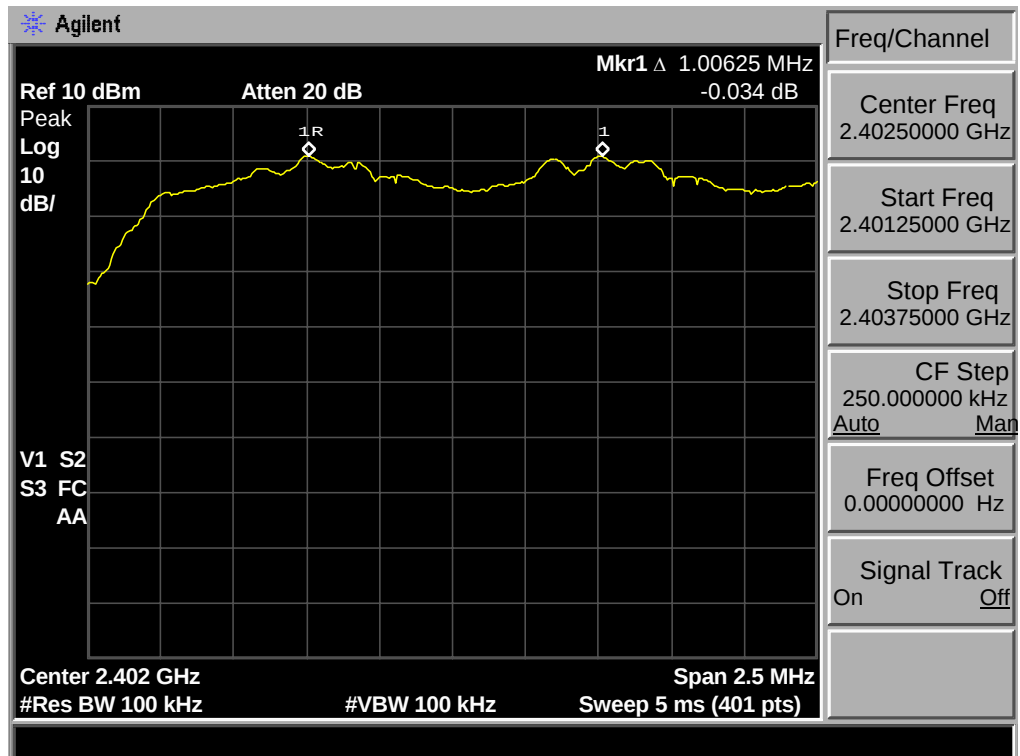
Mid Channel



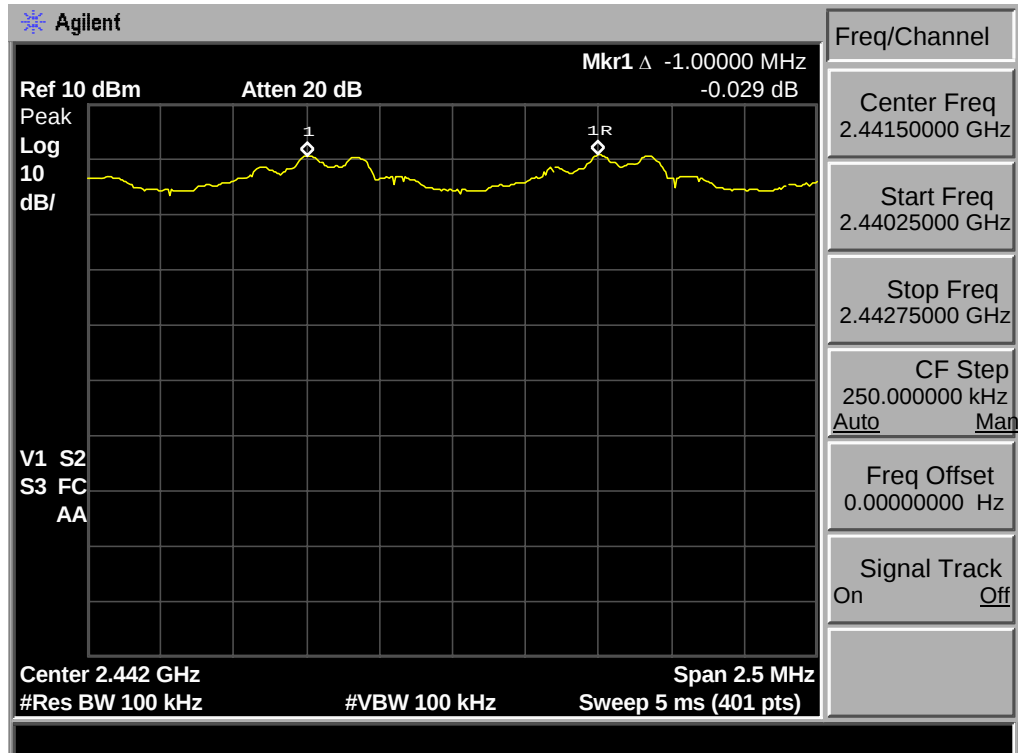
High Channel



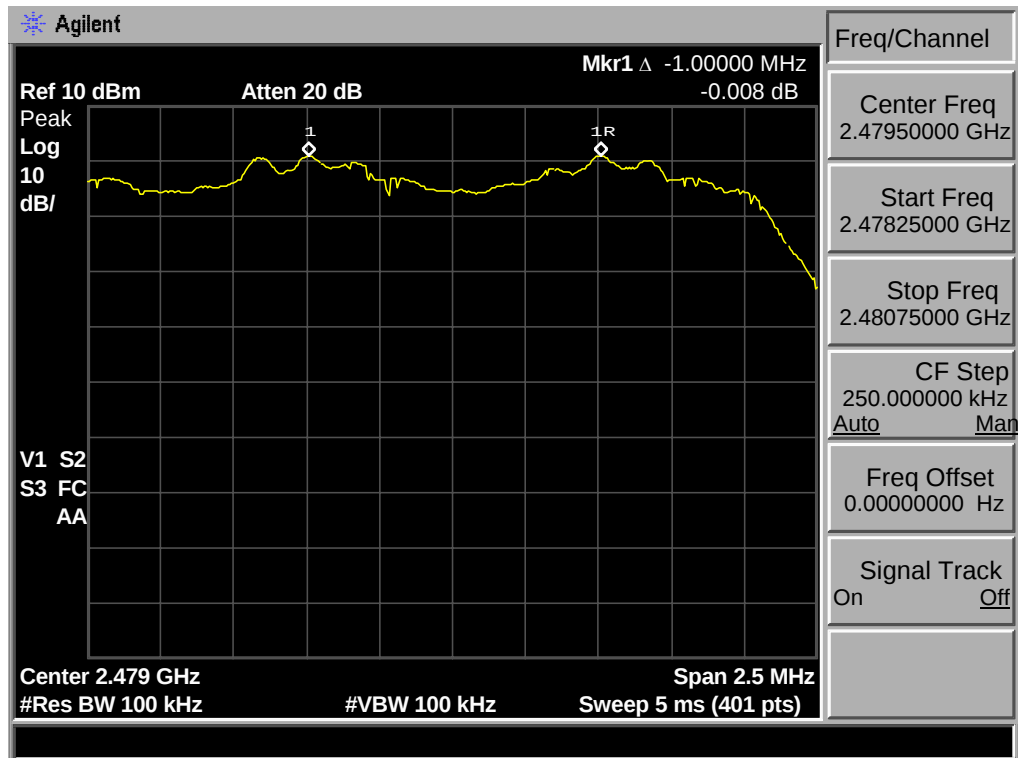
$\pi/4$ -DQPSK Low Channel



Mid Channel

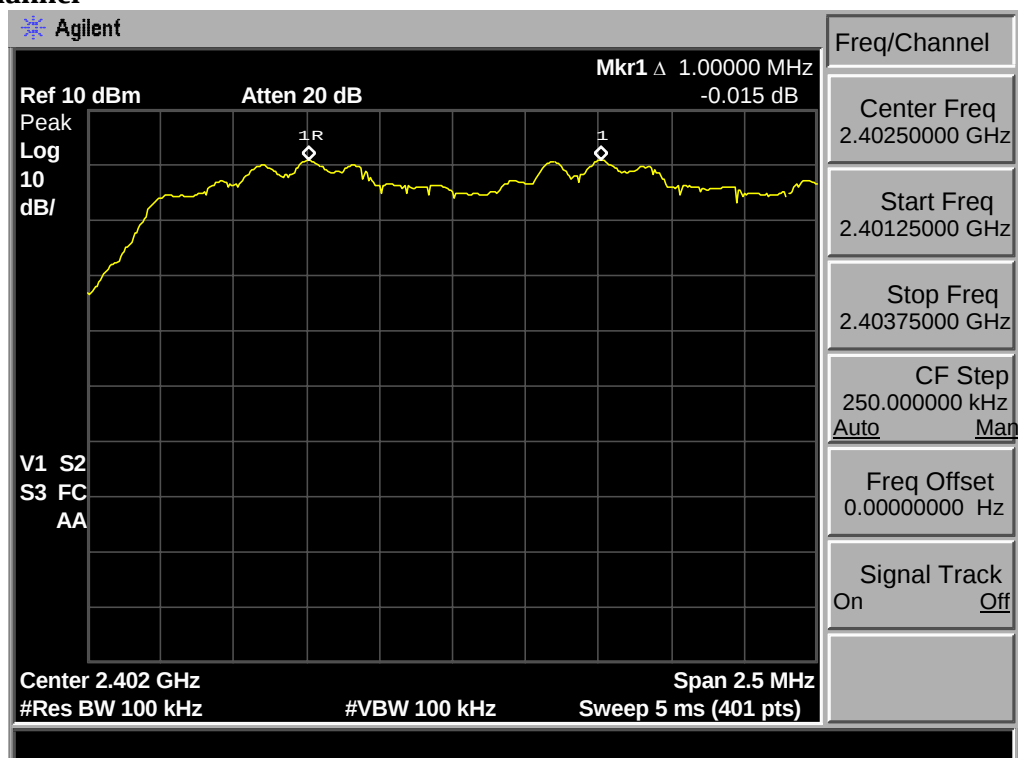


High Channel

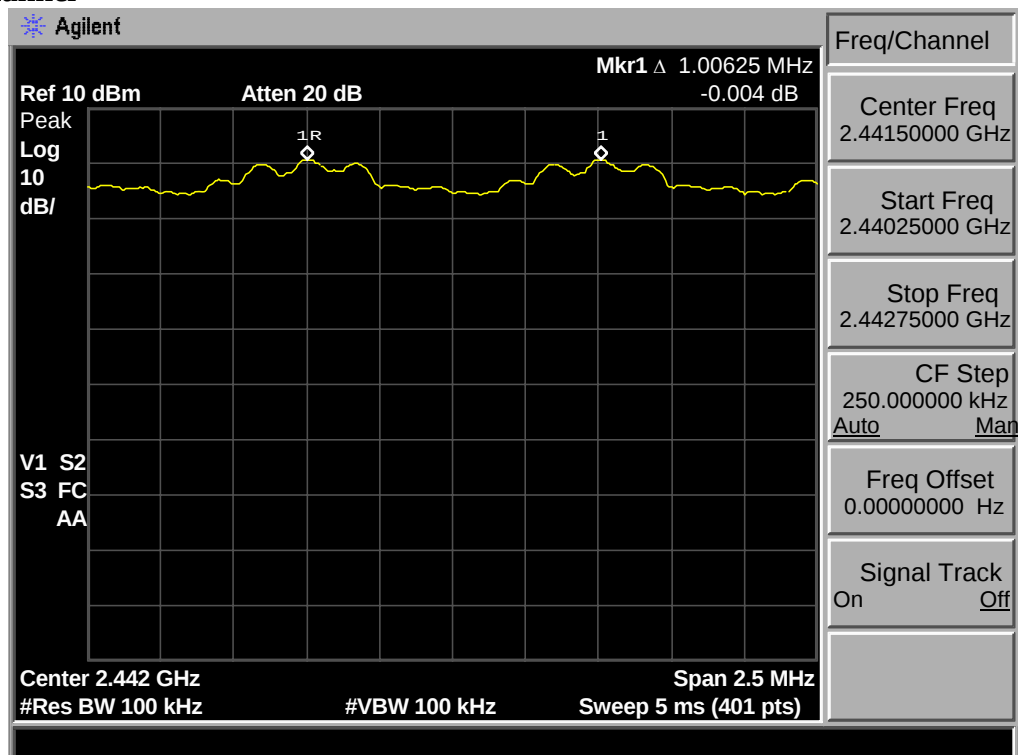


8-DPSK

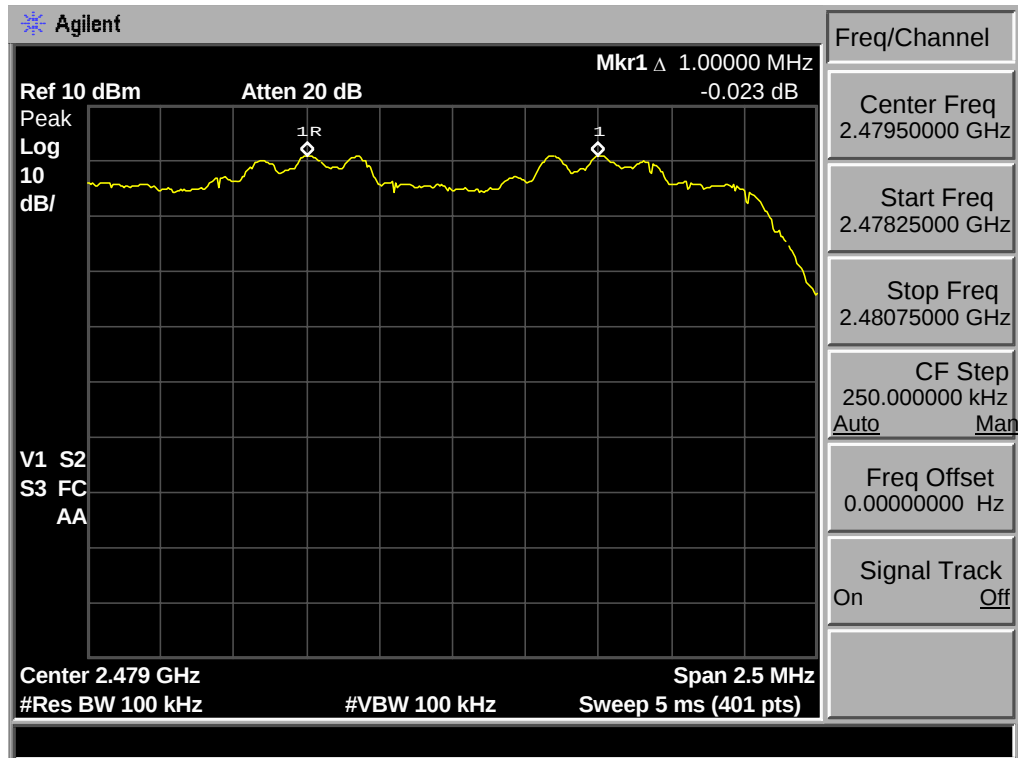
Low Channel



Mid Channel



High Channel



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

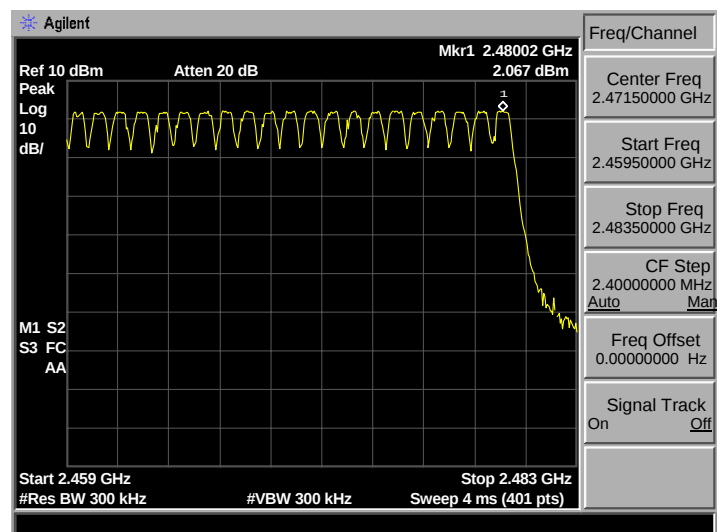
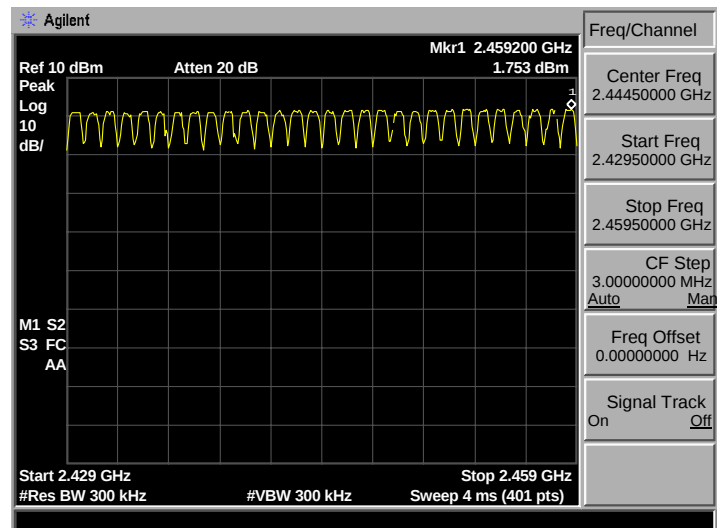
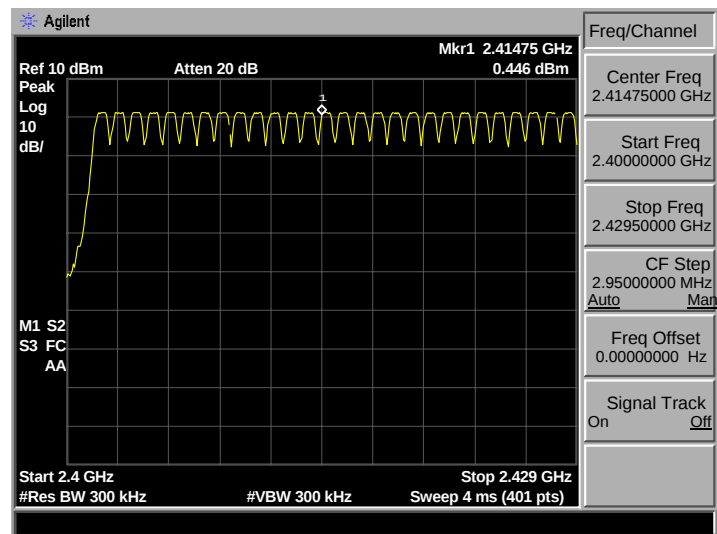
The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

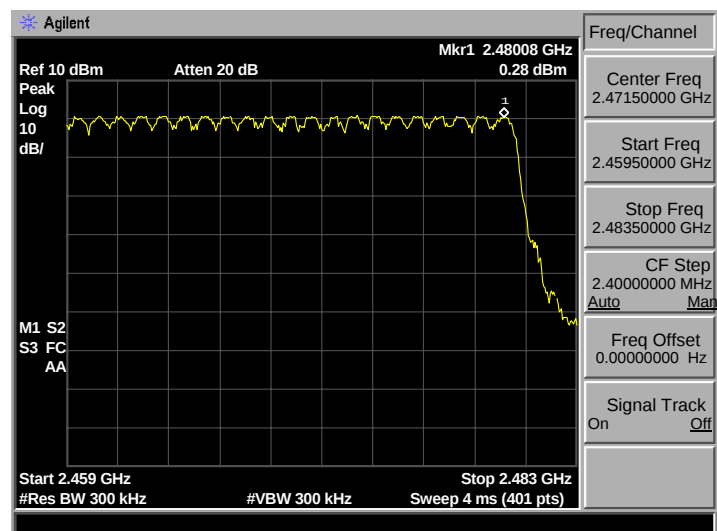
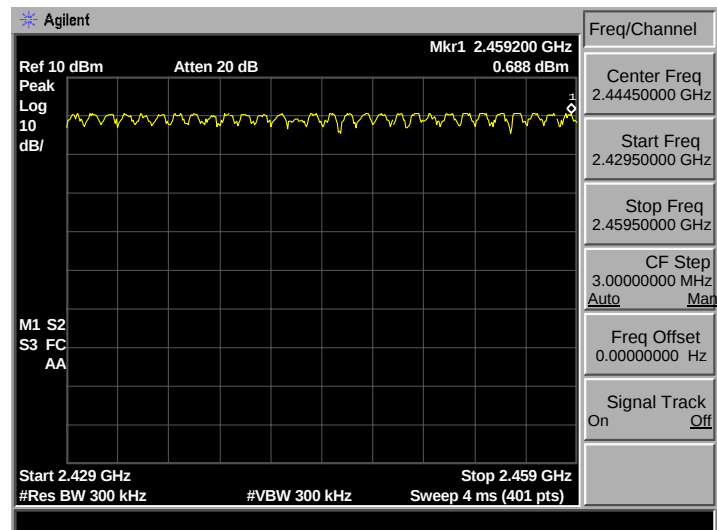
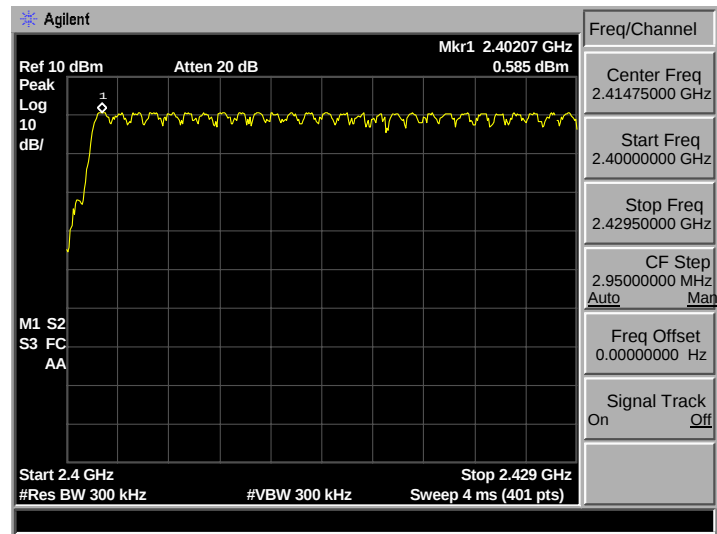
6.3. Test Result

EUT: BT Wireless Speaker		M/N:Transavtive Air	
Test date: 2012-9-1		Test site: RF site	Tested by: Tony.Tang
Mode	Number of hopping channel		Conclusion
GFSK	79	>15	PASS
$\pi/4$ -DQPSK	79	>15	PASS
8-DPSK	79	>15	PASS

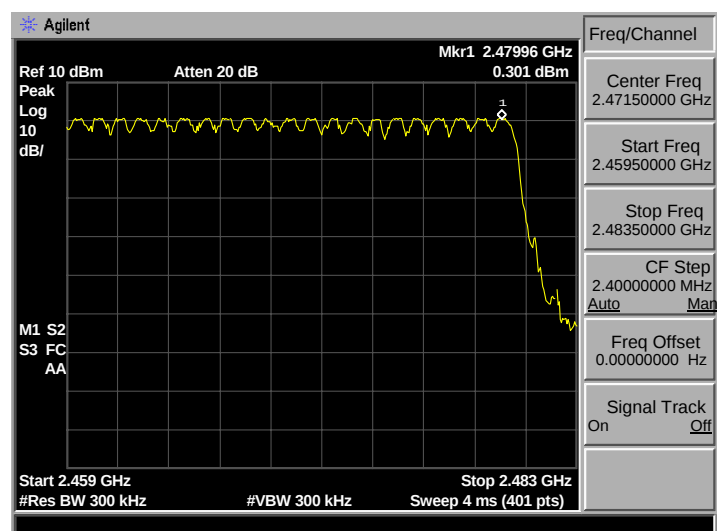
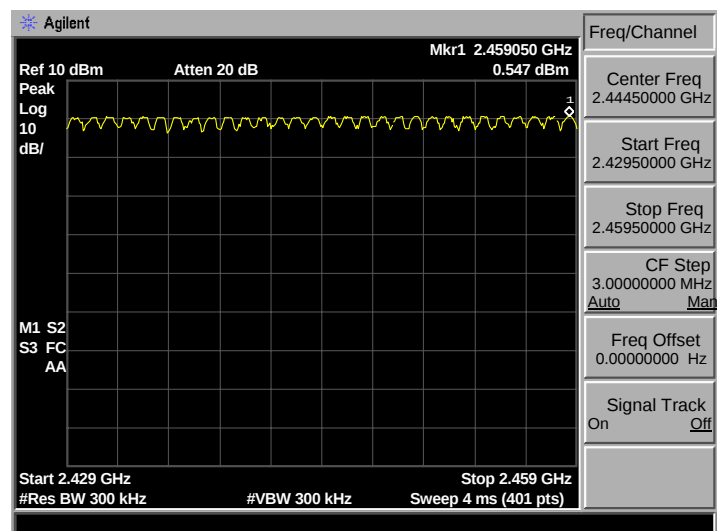
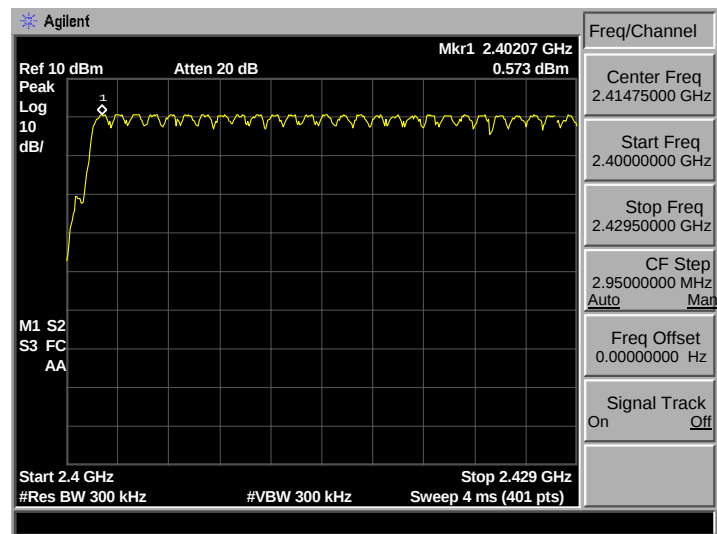
6.4. Test Data

GFSK



$\pi/4$ DQPSK

8-DPSK



7. DWELL TIME

7.1. Limit

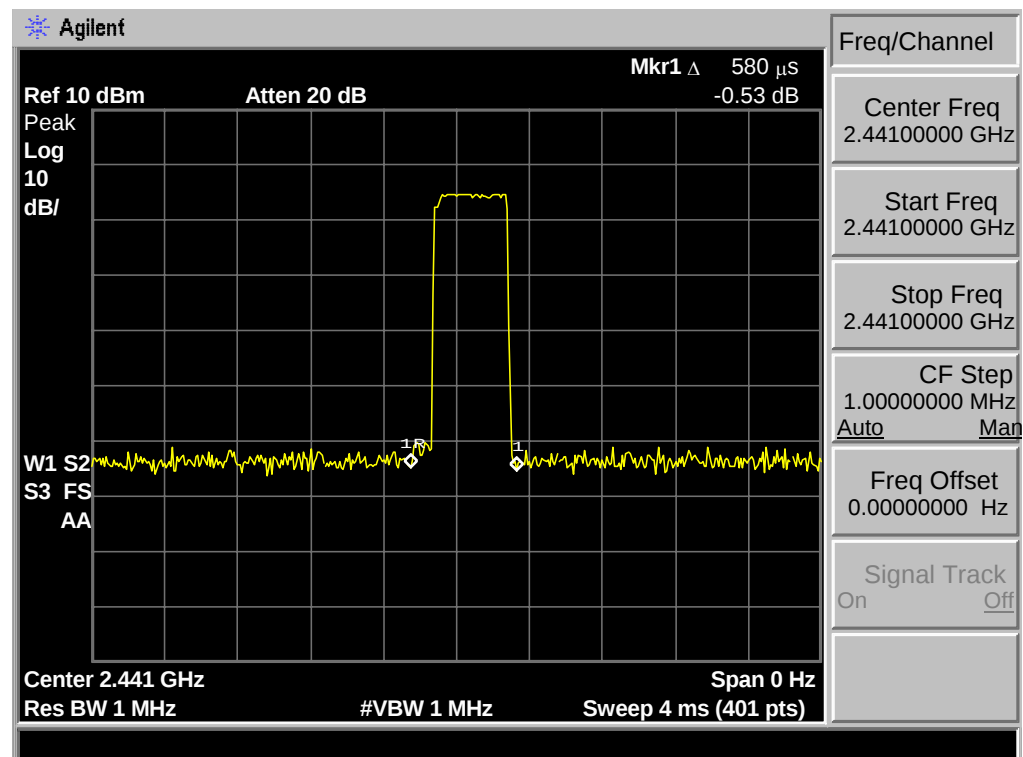
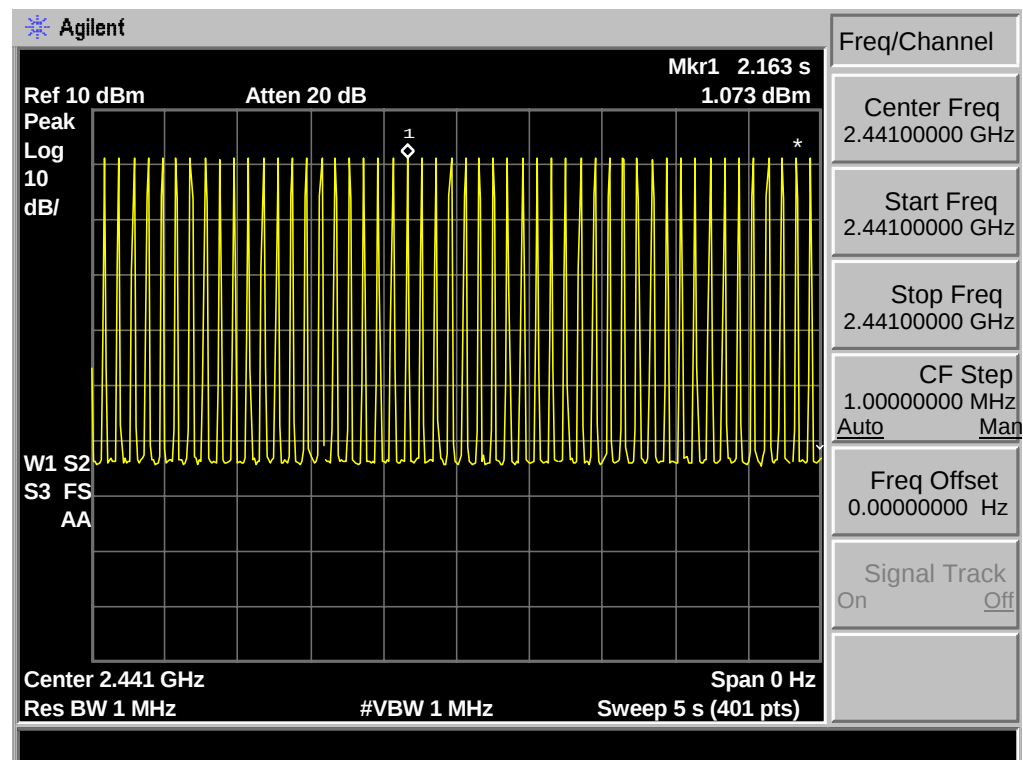
The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

7.2. Test Result

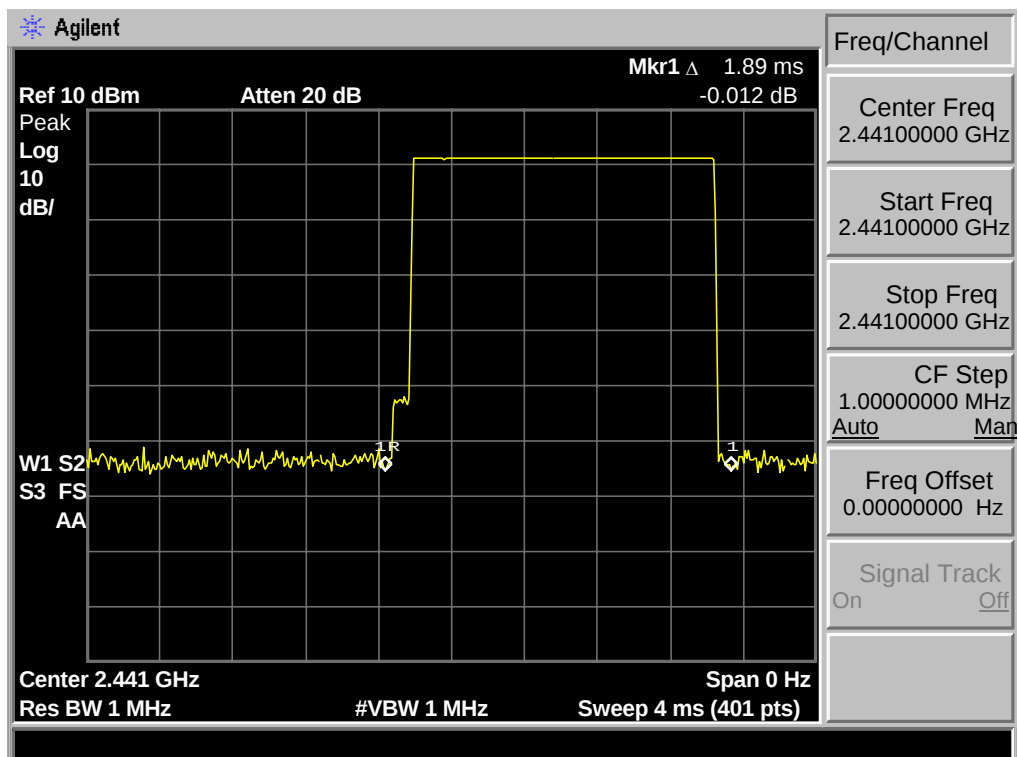
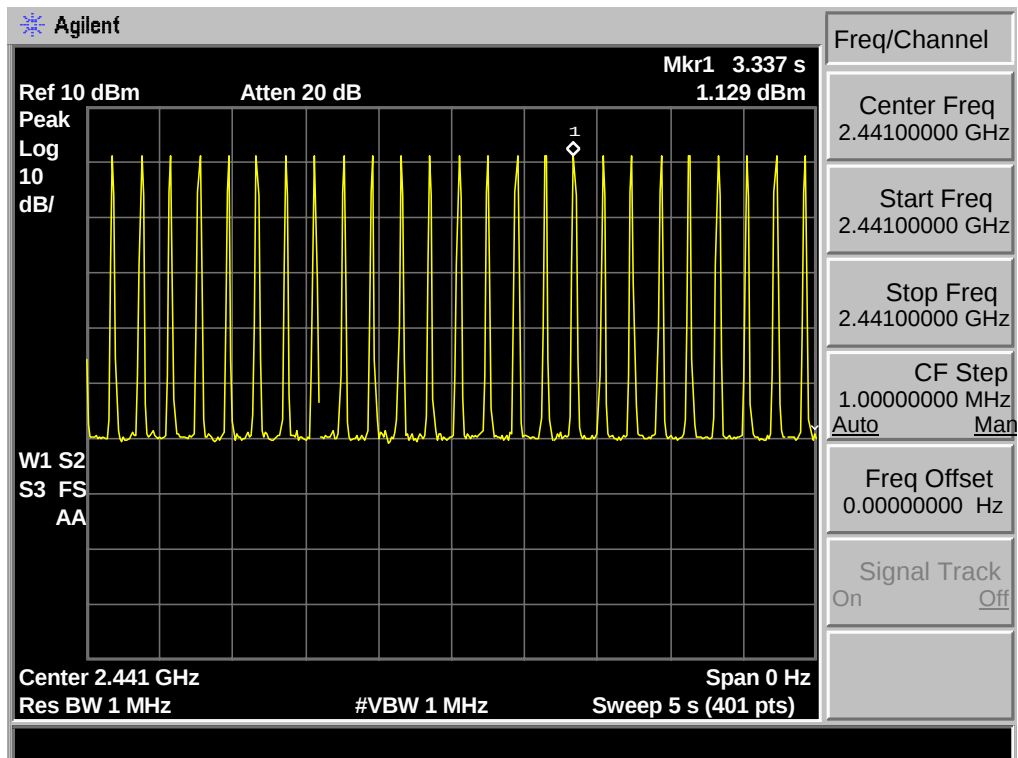
EUT: BT Wireless Speaker M/N:Transactive Air			
Test date: 2012-9-1		Test site: RF site	Tested by: Tony Tang
Mode	Dwell time	Limit	Conclusion
GFSK DH1	183.28	<400ms	PASS
GFSK DH3	298.62	<400ms	PASS
GFSK DH5	327.70	<400ms	PASS
$\pi/4$ DQPSK DH1	173.80	<400ms	PASS
$\pi/4$ DQPSK DH3	289.14	<400ms	PASS
$\pi/4$ 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

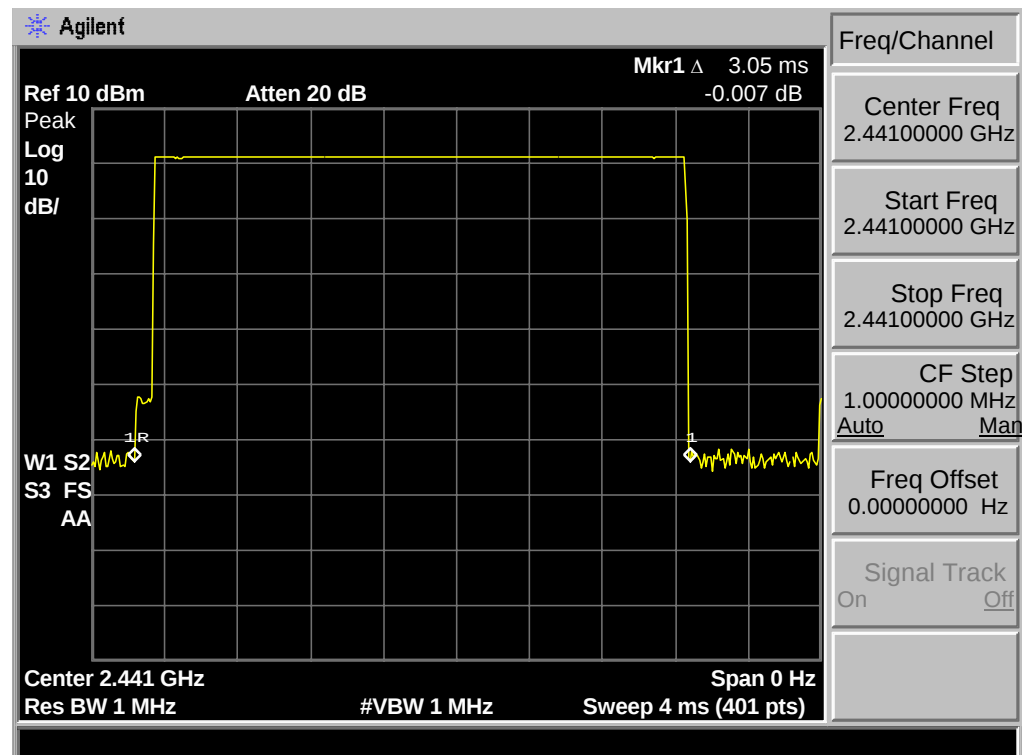
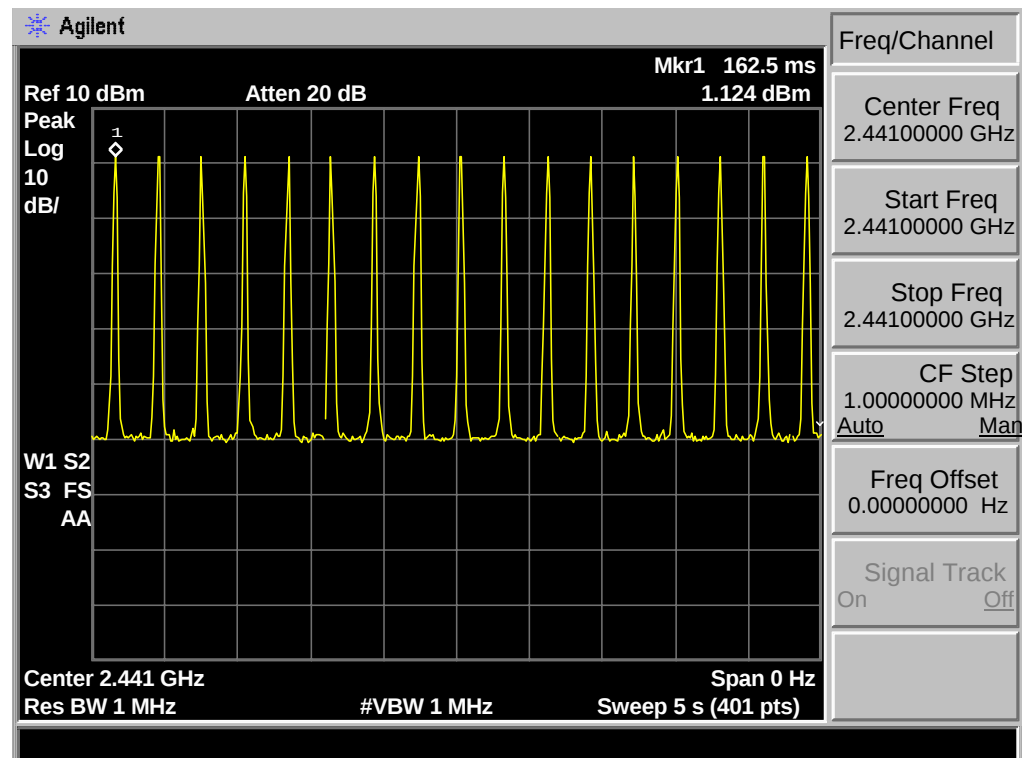
GFSK DH1 : 50hop/5s * 0.4 * 79 * 0.580ms = 183.28



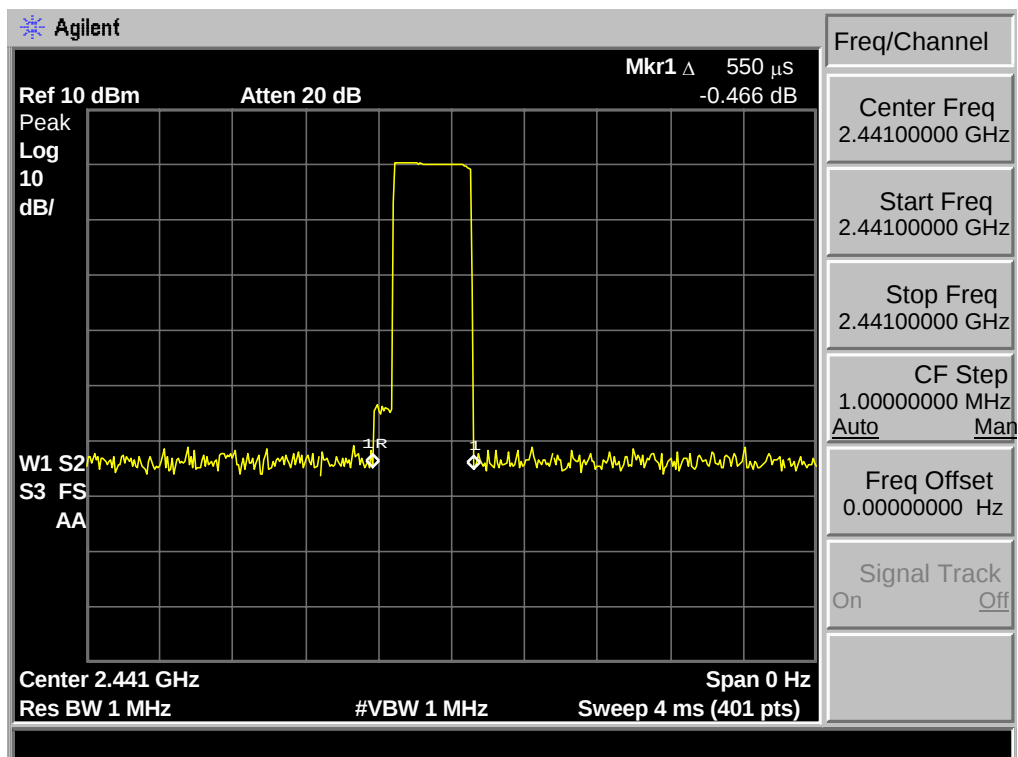
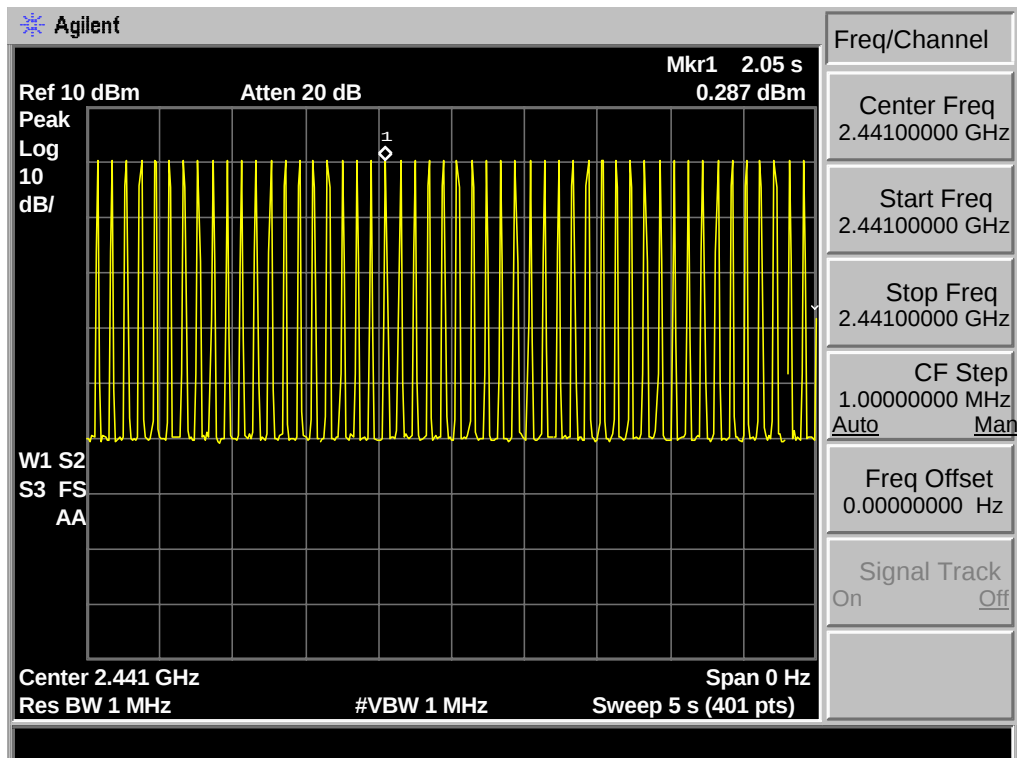
GFSK DH3 : $25\text{hop}/5\text{s} * 0.4 * 79 * 1.89\text{ms} = 298.62$



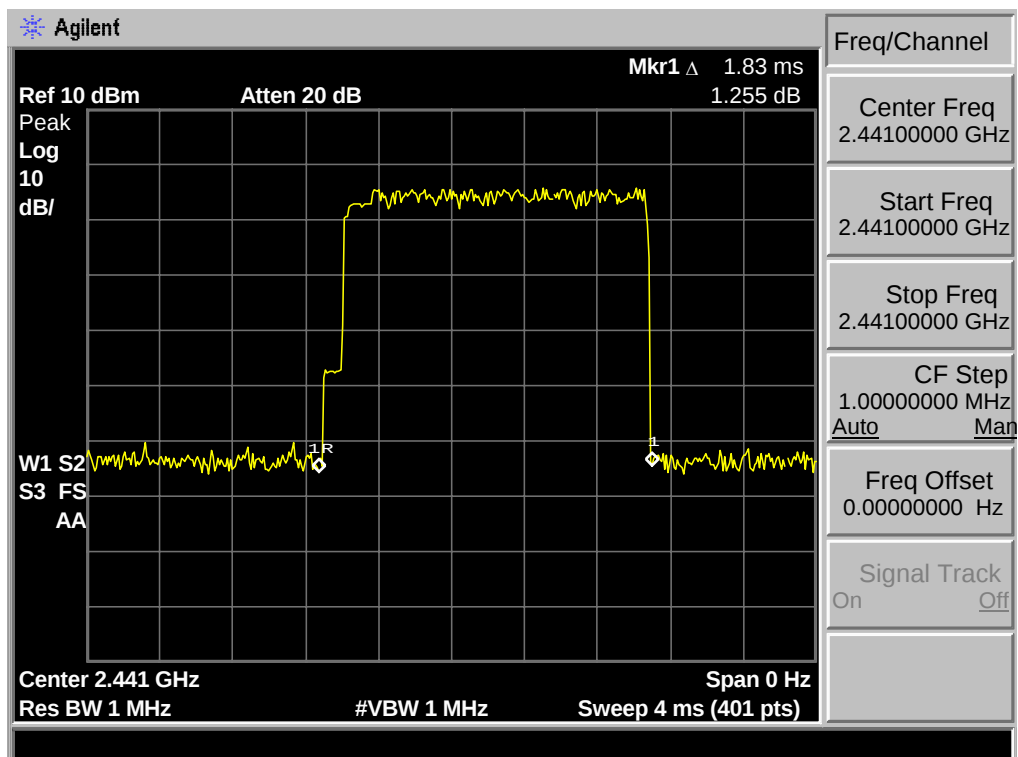
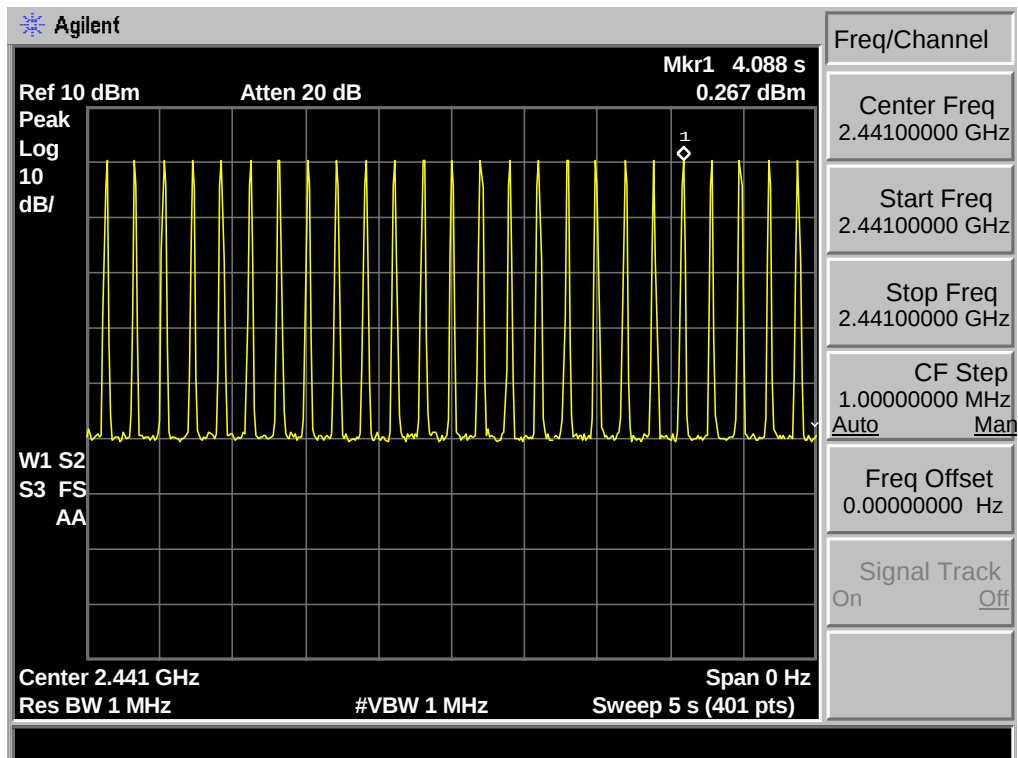
GSFK DH5 : $17\text{hop}/5\text{s} * 0.4 * 79 * 3.05\text{ms} = 327.70$



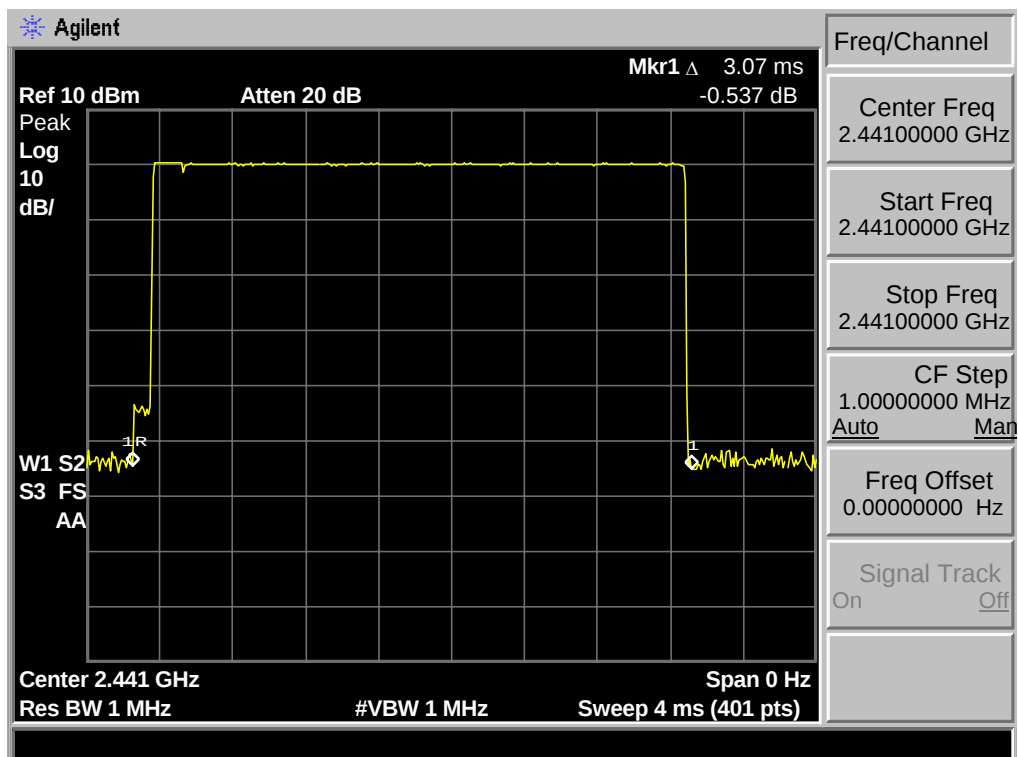
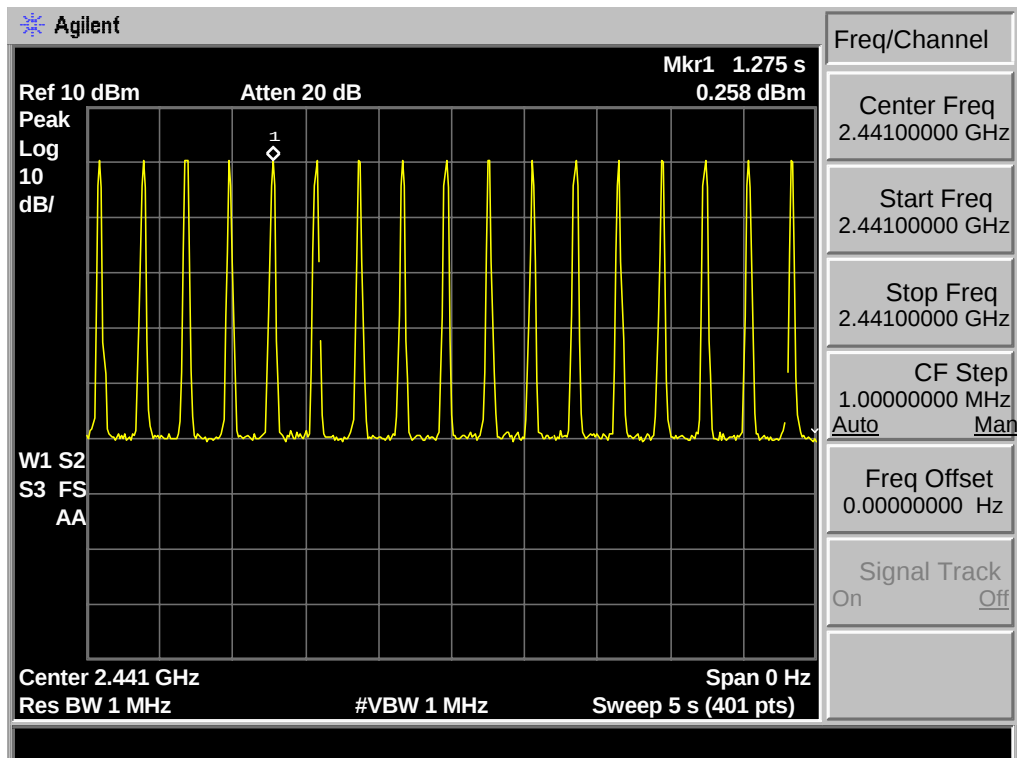
$\pi/4$ -DQPSK DH1: 50hop/5 * 0.4 * 79 * 0.550ms=173.80



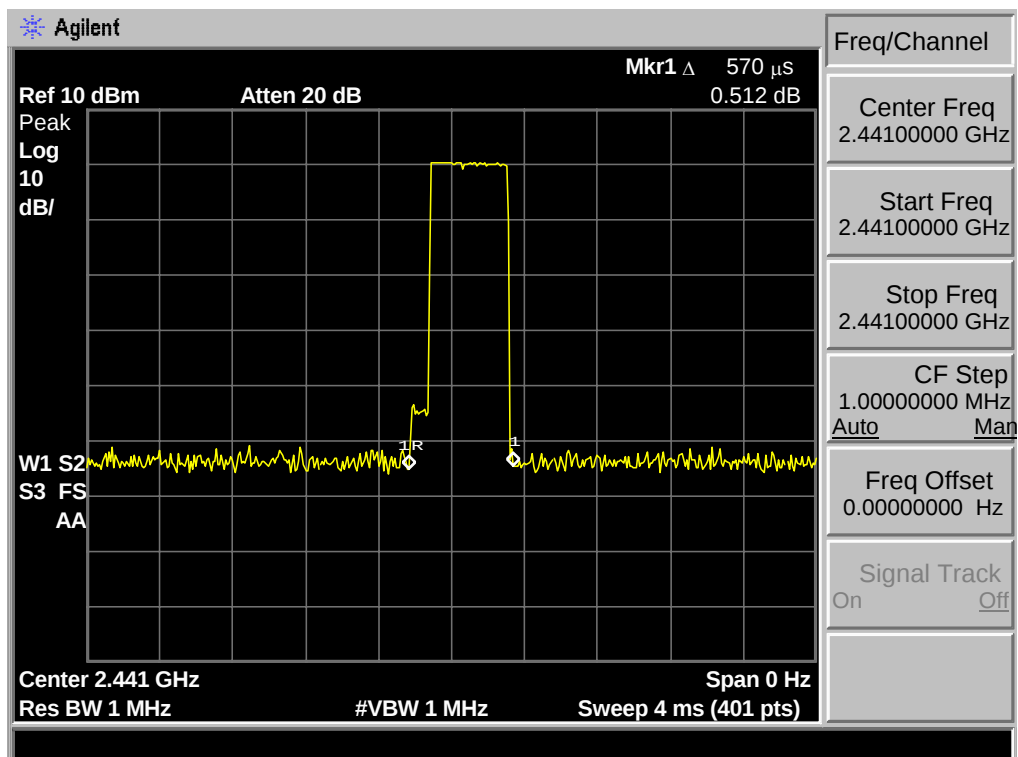
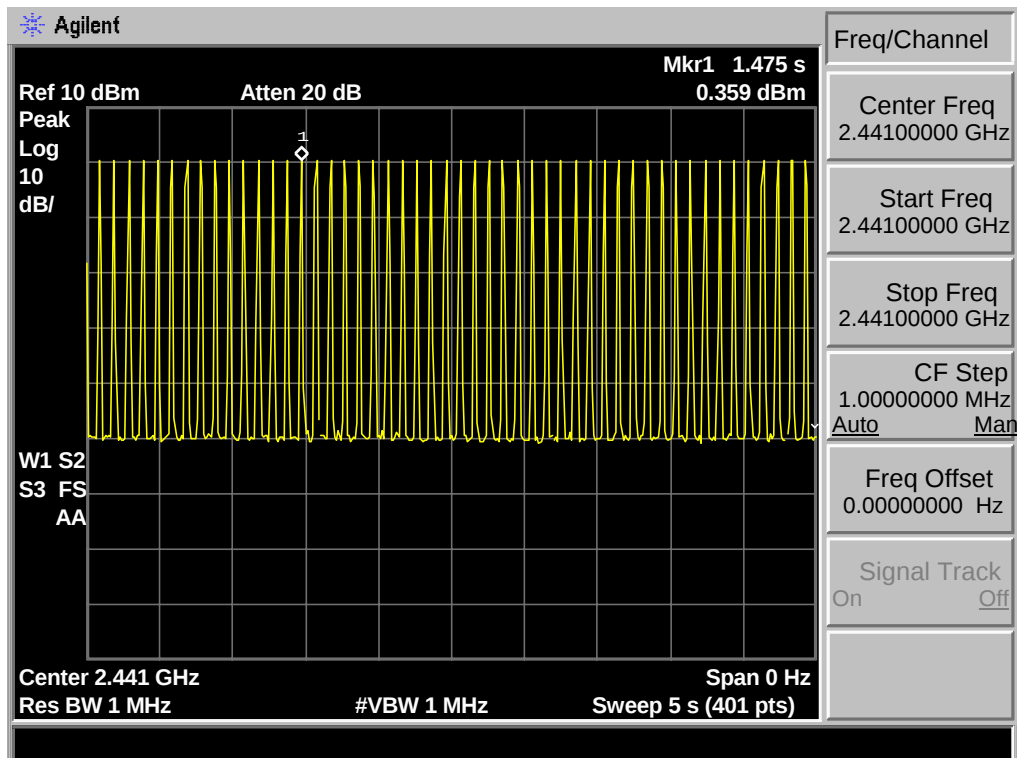
$\pi/4$ -DQPSK DH3: $25\text{hop}/5 * 0.4 * 79 * 1.83 = 289.14$



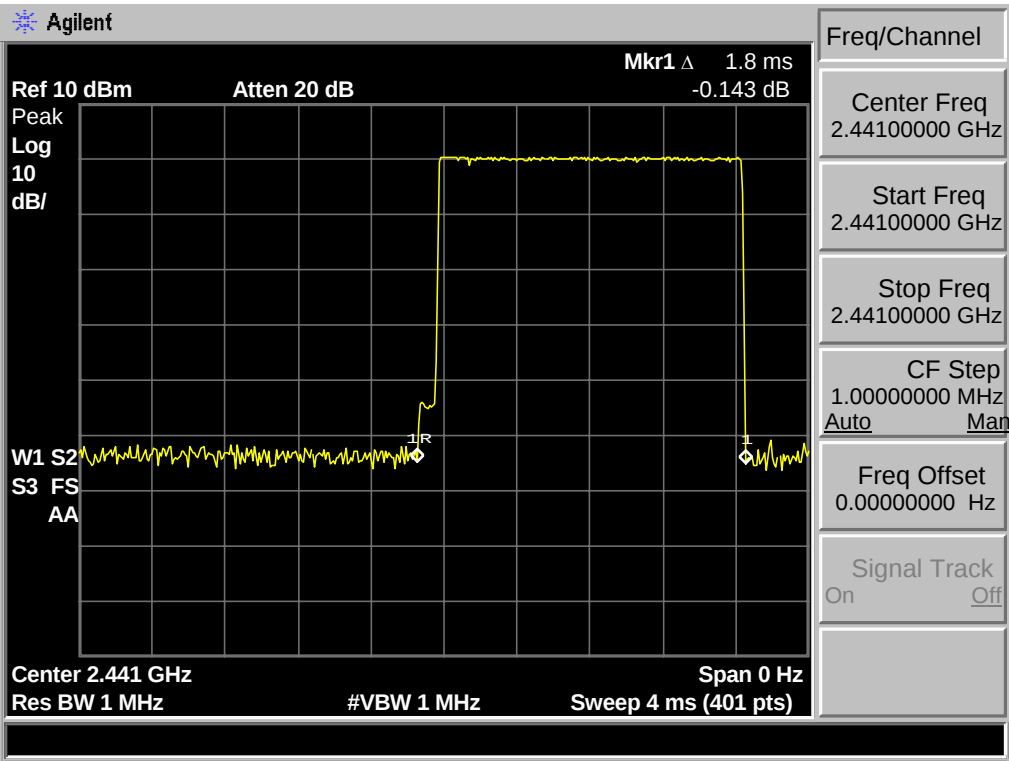
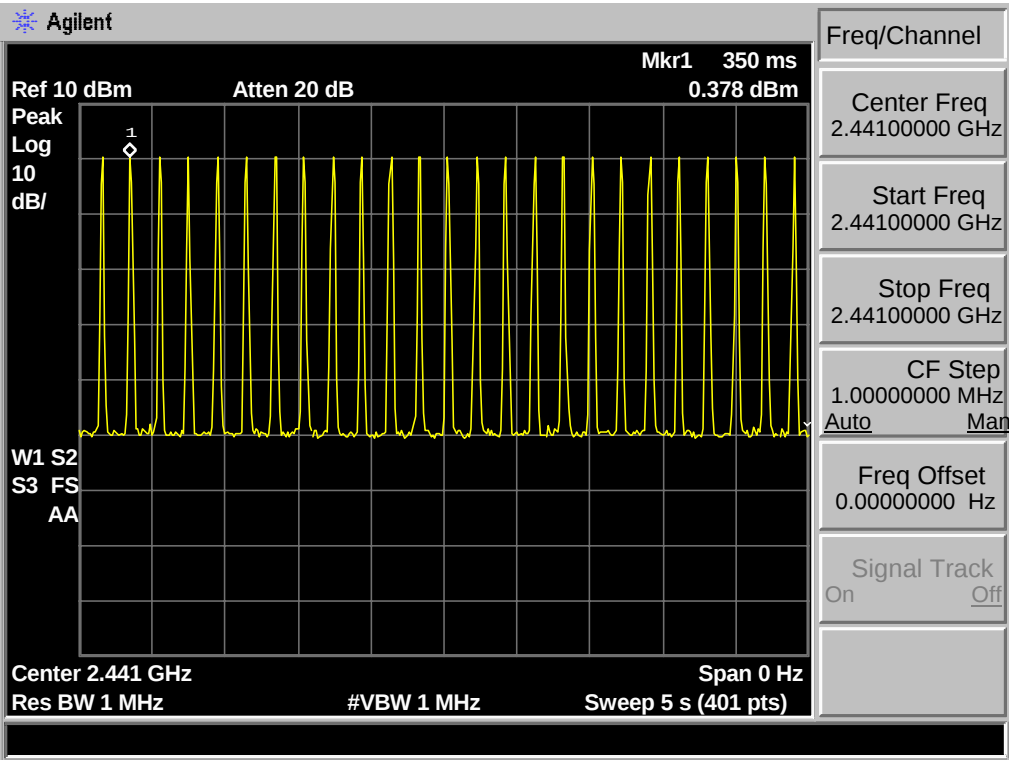
$\pi/4$ -DQPSK DH5: 17hop/5 * 0.4 * 79 * 3.07ms = 329.84



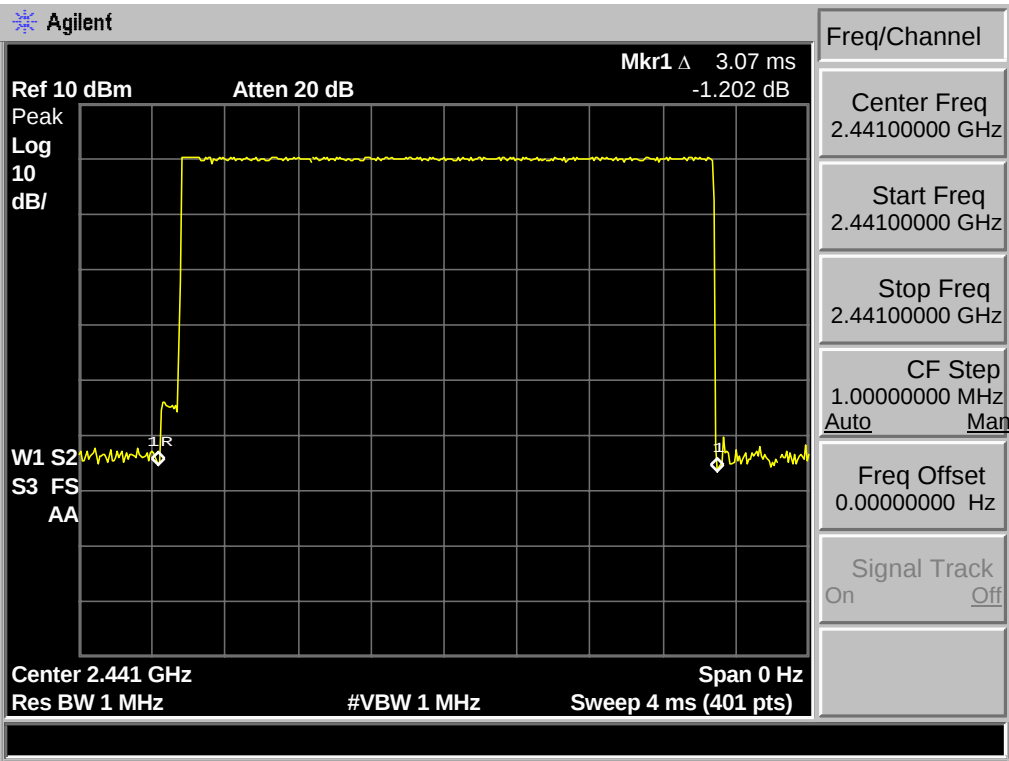
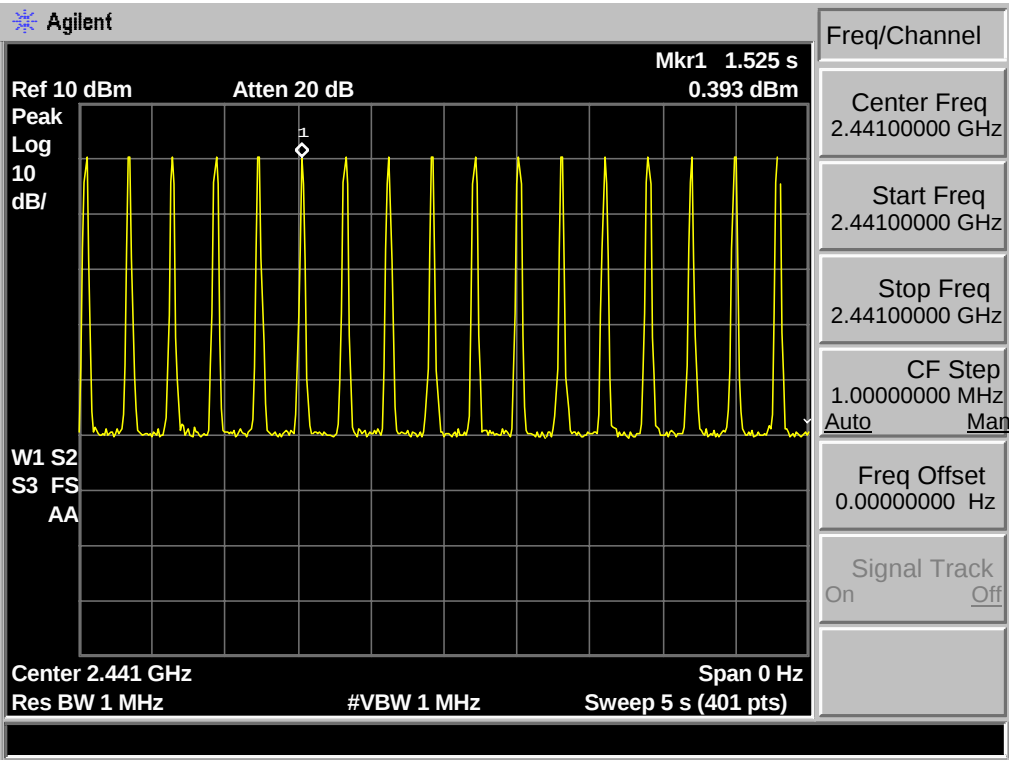
8-DPSK DH1: 50hop/5 * 0.4 * 79 * 0.570ms=180.12



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.

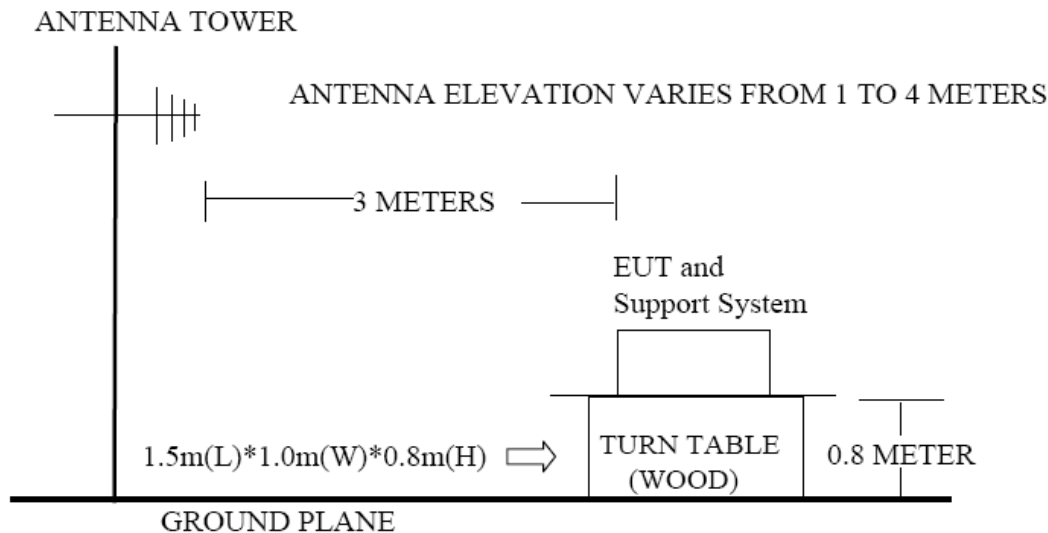
15.205 Restricted frequency band

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 emission Test result	
EUT: BT Wireless Speaker	M/N:Transavtive Air
Power:AC 120V/60Hz	
Test date: 2012-8-30 Test site: 3m Chamber Tested by: Tony Tang	
Test mode: Tx Mode	
Pass	

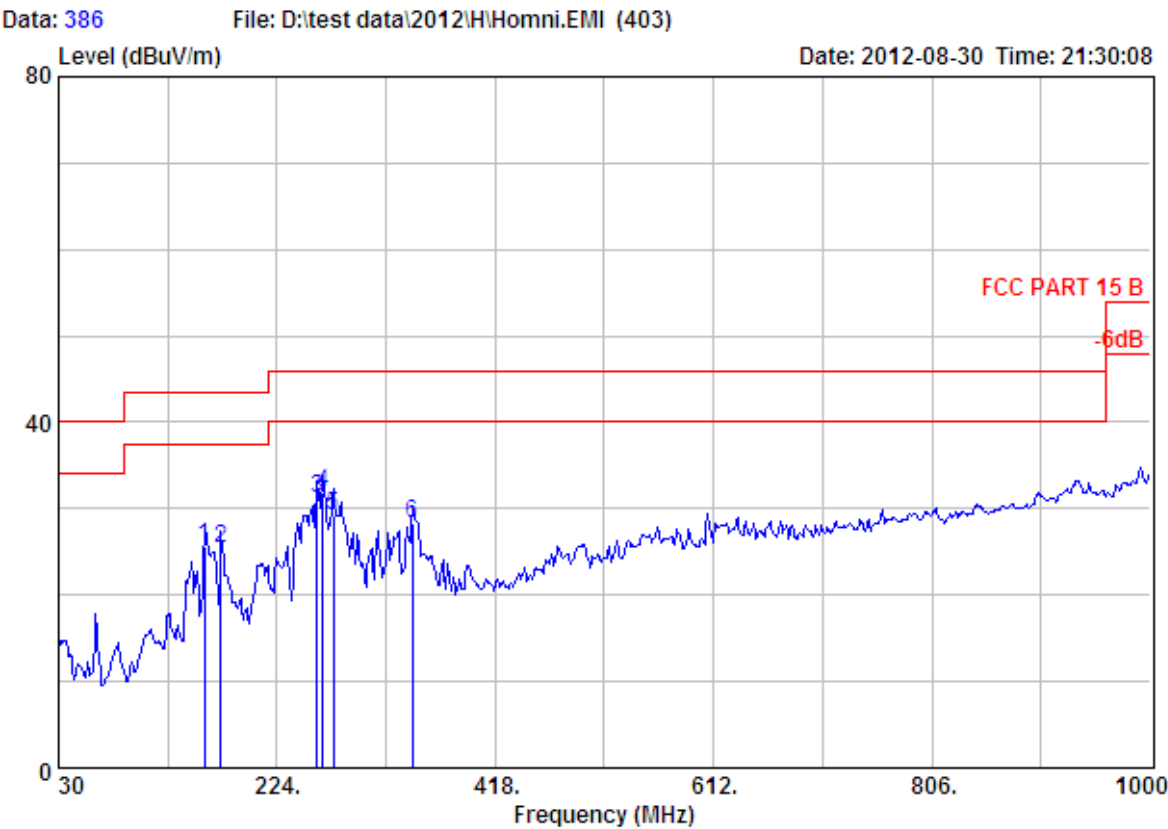
Note : If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

8.5. Test Data

30 MHz – 1000 MHz

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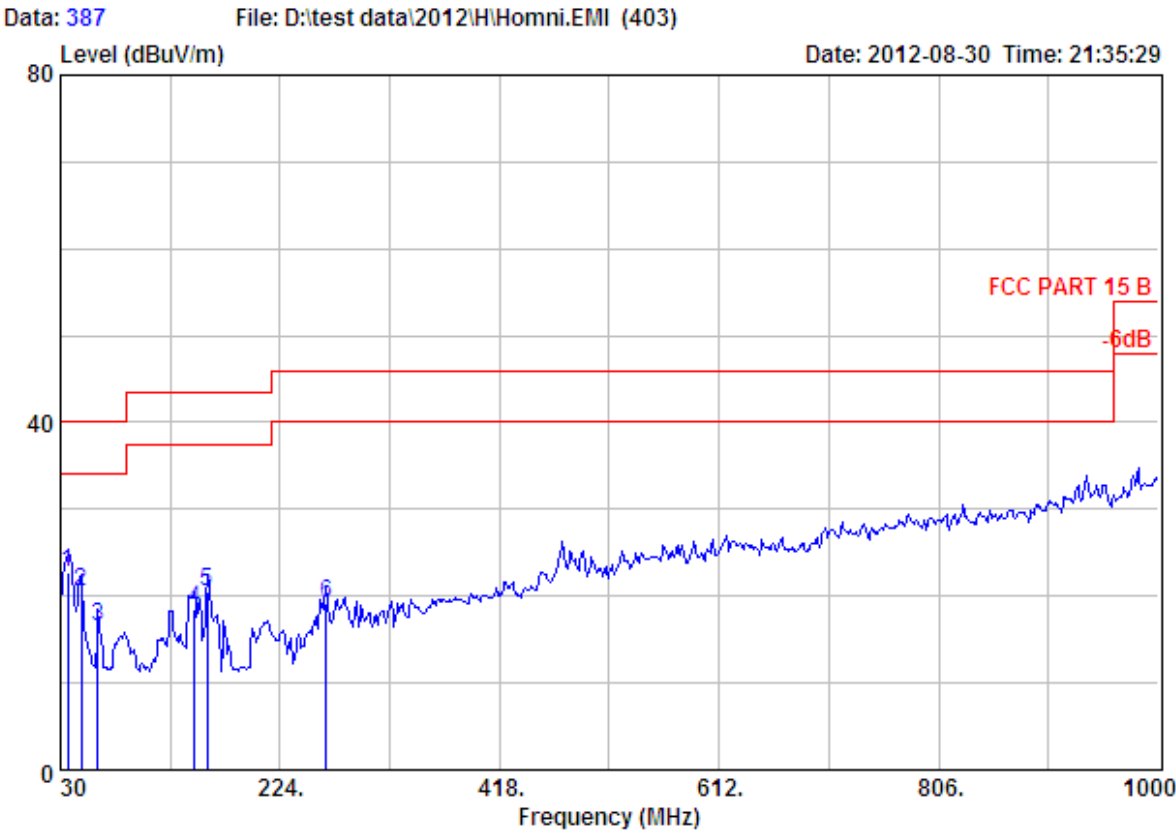


Site no.	: 3m Chamber	Data no.	: 386
Dis. / Ant.	: 3m 27137	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 B		
Env. / Ins.	: Temp:25.6';Humi:56%;Press:101.52kPa		
Engineer	: Tony		
EUT	: BT Wireless Speaker		
Power	: AC 120V/60Hz		
M/N	: Transactive Air		
Test Mode	: GFSK TX 2402MHz		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Reamark (dB)
					Level (dBuV/m)	Limits (dBuV/m)		
1	159.98	10.36	3.89	11.32	25.57	43.50	17.93	QP
2	174.53	8.99	4.08	12.29	25.36	43.50	18.14	QP
3	259.89	12.97	4.93	13.30	31.20	46.00	14.80	QP
4	264.74	12.94	4.97	14.01	31.92	46.00	14.08	QP
5	274.44	12.39	5.05	11.79	29.23	46.00	16.77	QP
6	344.28	14.28	5.63	8.34	28.25	46.00	17.75	QP

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Site no. : 3m Chamber Data no. : 387
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2402MHz

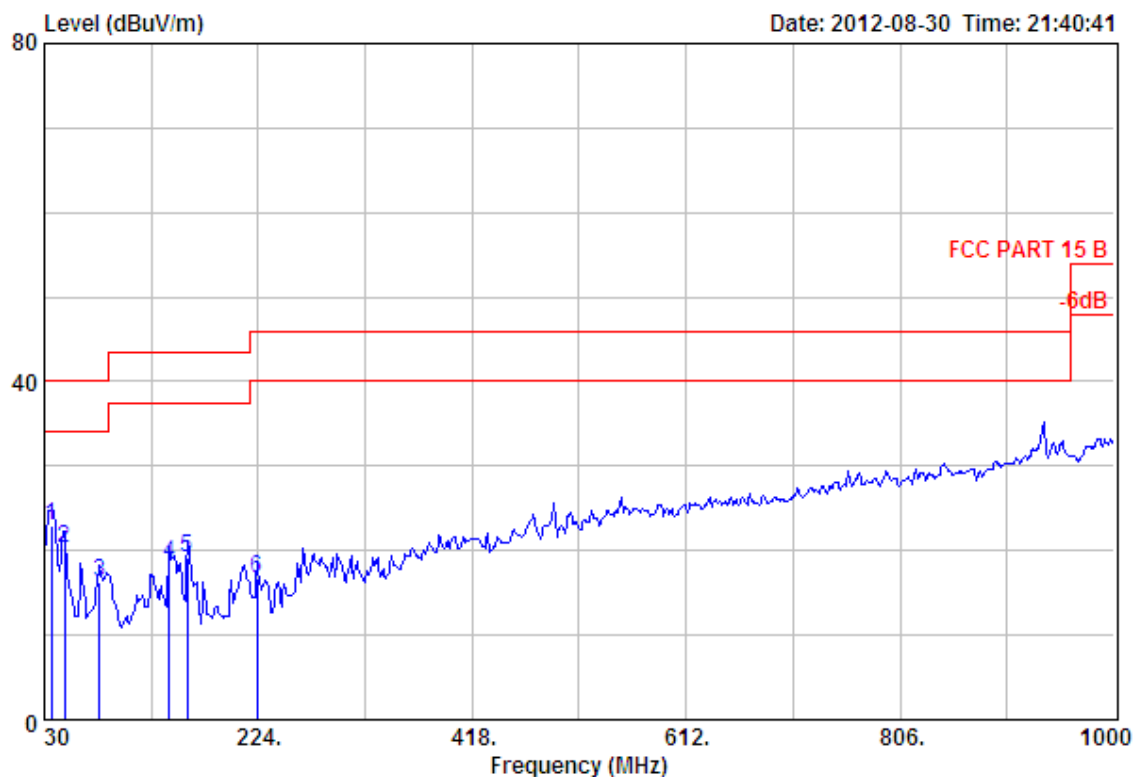
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Reamark (dB)
1	36.79	14.52	2.06	6.21	22.79	40.00	17.21	QP
2	48.43	8.37	2.30	9.85	20.52	40.00	19.48	QP
3	62.98	4.82	2.63	8.98	16.43	40.00	23.57	QP
4	148.34	11.00	3.76	3.79	18.55	43.50	24.95	QP
5	159.98	10.36	3.89	6.30	20.55	43.50	22.95	QP
6	264.74	12.94	4.97	1.17	19.08	46.00	26.92	QP

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Data: 388 File: D:\test data\2012\H\Homni.EMI (403)

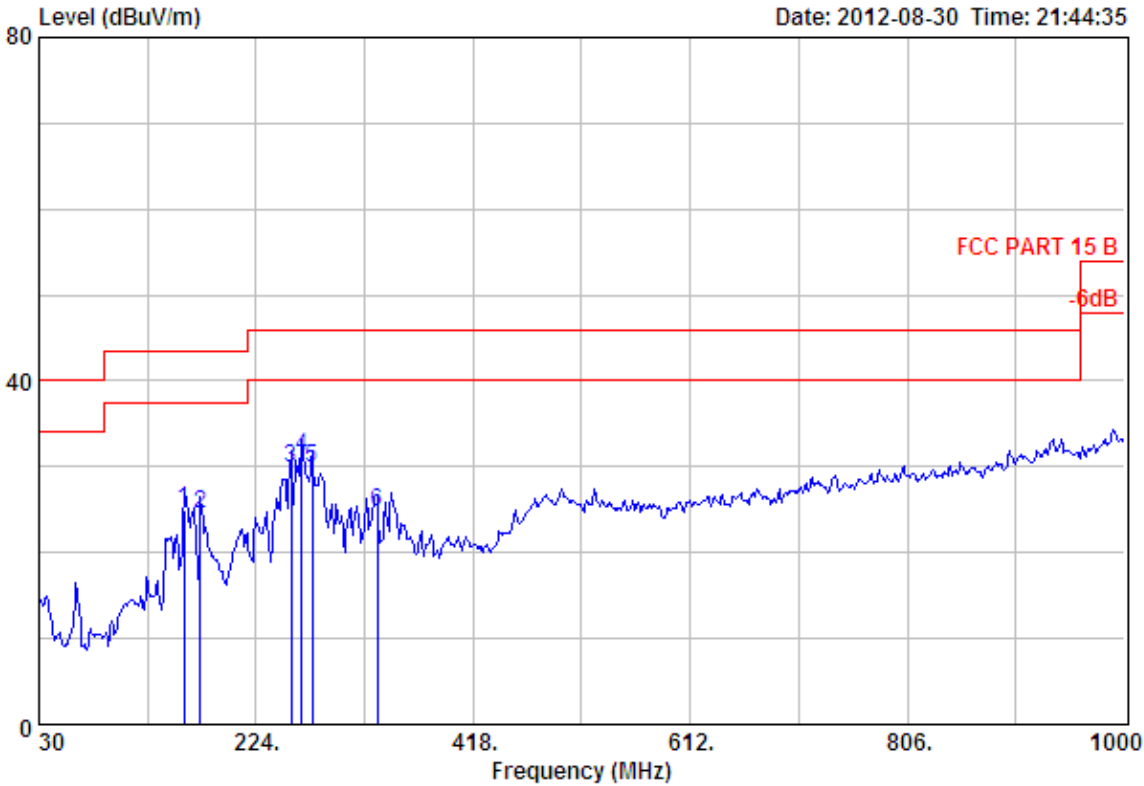
Date: 2012-08-30 Time: 21:40:41



Site no. : 3m Chamber Data no. : 388
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2441MHz

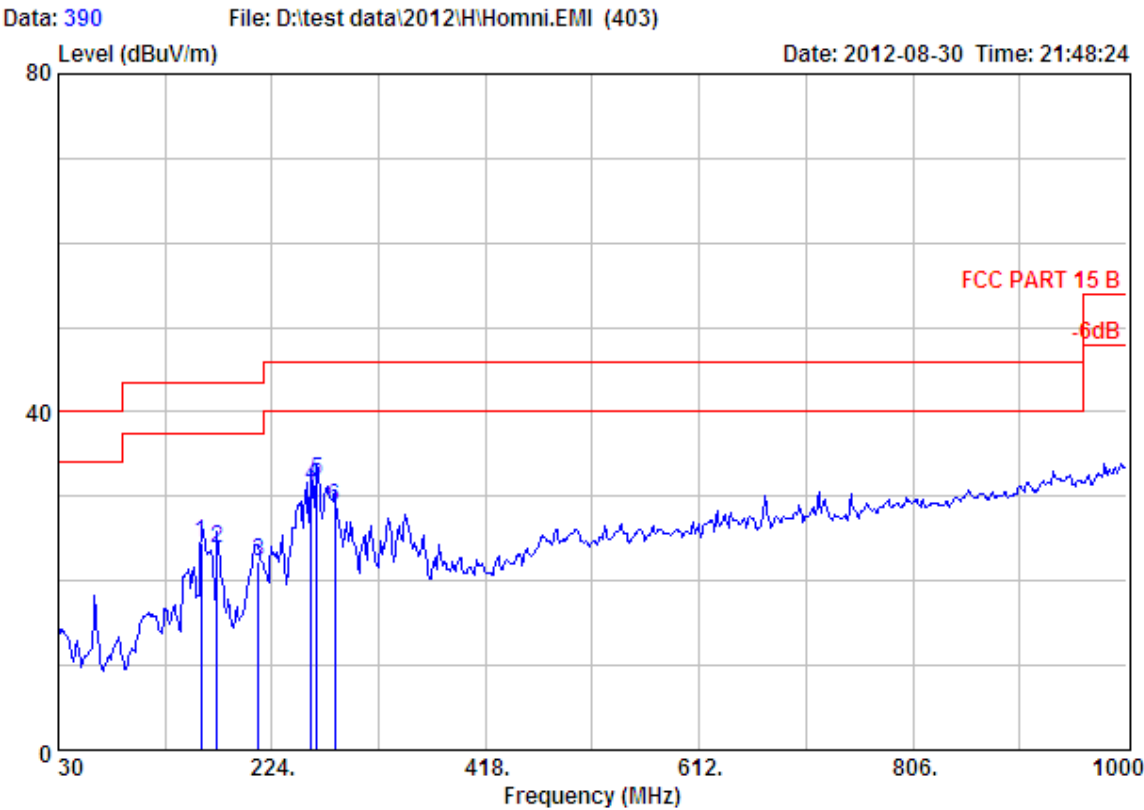
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	36.79	14.52	2.06	6.36	22.94	40.00	17.06	QP
2	48.43	8.37	2.30	9.68	20.35	40.00	19.65	QP
3	80.44	7.07	2.84	6.31	16.22	40.00	23.78	QP
4	143.49	11.29	3.71	3.43	18.43	43.50	25.07	QP
5	159.98	10.36	3.89	4.85	19.10	43.50	24.40	QP
6	223.03	9.37	4.47	2.89	16.73	46.00	29.27	QP

Data: 389 File: D:\test data\2012\H\Homni.EMI (403) Date: 2012-08-30 Time: 21:44:35



Site no. : 3m Chamber Data no. : 389
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2441MHz

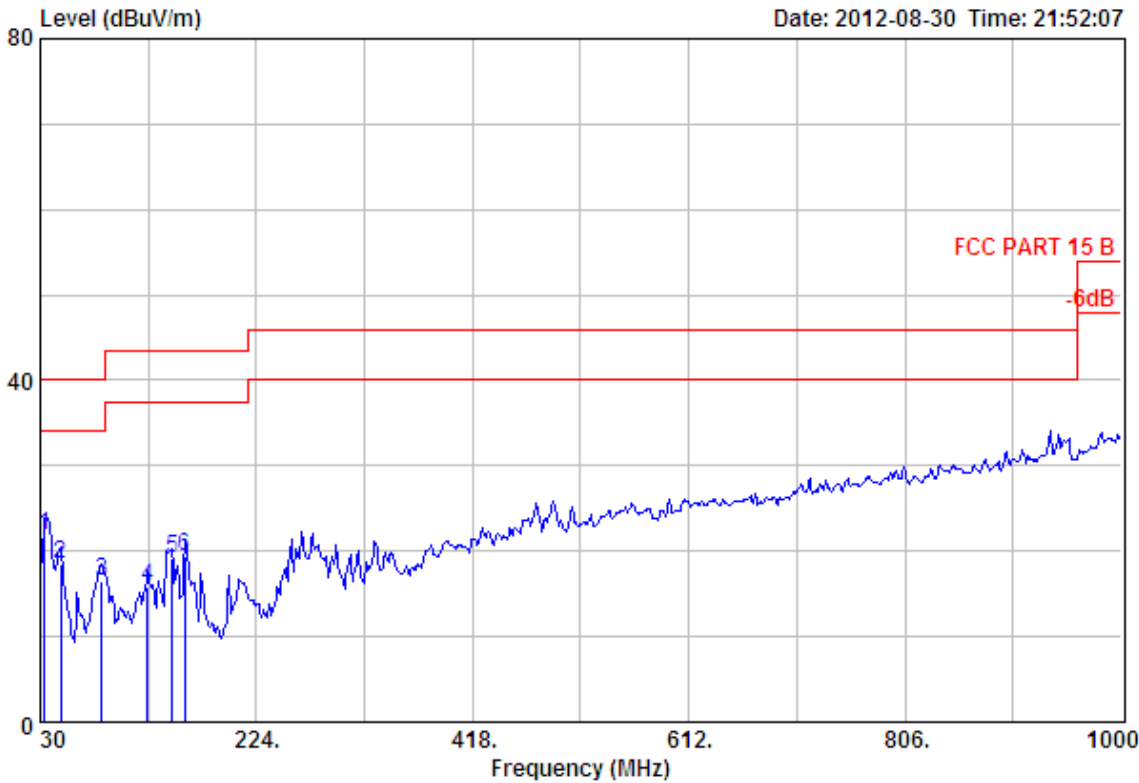
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission		Margin (dB)	Reamark (dB)
					Level (dBUV/m)	Limits (dBUV/m)		
1	159.98	10.36	3.89	10.61	24.86	43.50	18.64	QP
2	174.53	8.99	4.08	11.53	24.60	43.50	18.90	QP
3	255.04	12.41	4.87	12.64	29.92	46.00	16.08	QP
4	264.74	12.94	4.97	13.37	31.28	46.00	14.72	QP
5	274.44	12.39	5.05	12.46	29.90	46.00	16.10	QP
6	332.64	13.93	5.52	5.36	24.81	46.00	21.19	QP



Site no. : 3m Chamber Data no. : 390
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin	Reamark
					Level (dBuV/m)	Limits (dBuV/m)		
1	159.98	10.36	3.89	10.36	24.61	43.50	18.89	QP
2	174.53	8.99	4.08	10.80	23.87	43.50	19.63	QP
3	211.39	8.51	4.34	9.48	22.33	43.50	21.17	QP
4	259.89	12.97	4.93	13.24	31.14	46.00	14.86	QP
5	264.74	12.94	4.97	13.99	31.90	46.00	14.10	QP
6	281.23	12.41	5.09	11.17	28.67	46.00	17.33	QP

Data: 391 File: D:\test data\2012\H\Homni.EMI (403) Date: 2012-08-30 Time: 21:52:07



Site no. : 3m Chamber Data no. : 391
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2480MHz

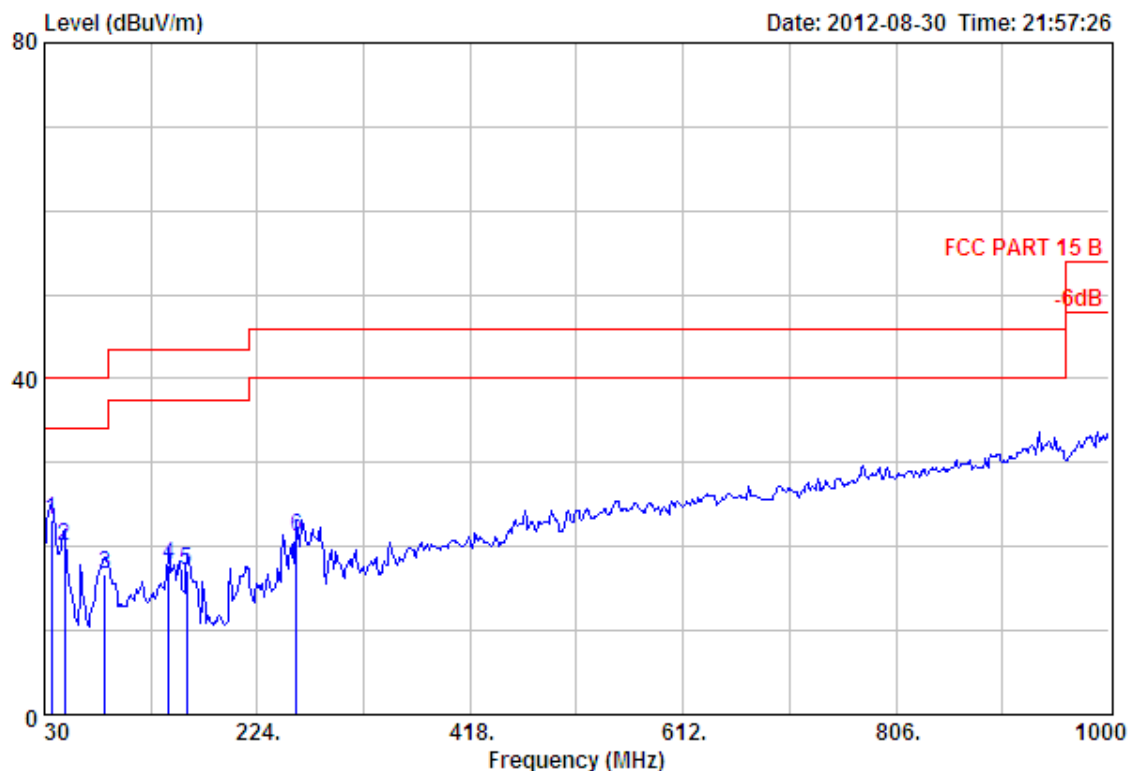
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Reamark (dB)
1	33.88	16.11	1.99	3.84	21.94	40.00	18.06	QP
2	48.43	8.37	2.30	7.80	18.47	40.00	21.53	QP
3	85.29	7.72	2.87	5.82	16.41	40.00	23.59	QP
4	126.03	11.34	3.44	0.95	15.73	43.50	27.77	QP
5	148.34	11.00	3.76	4.47	19.23	43.50	24.27	QP
6	159.98	10.36	3.89	5.05	19.30	43.50	24.20	QP

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Data: 392 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 21:57:26



Site no. : 3m Chamber Data no. : 392
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : π/4-DQPSK TX 2402MHz

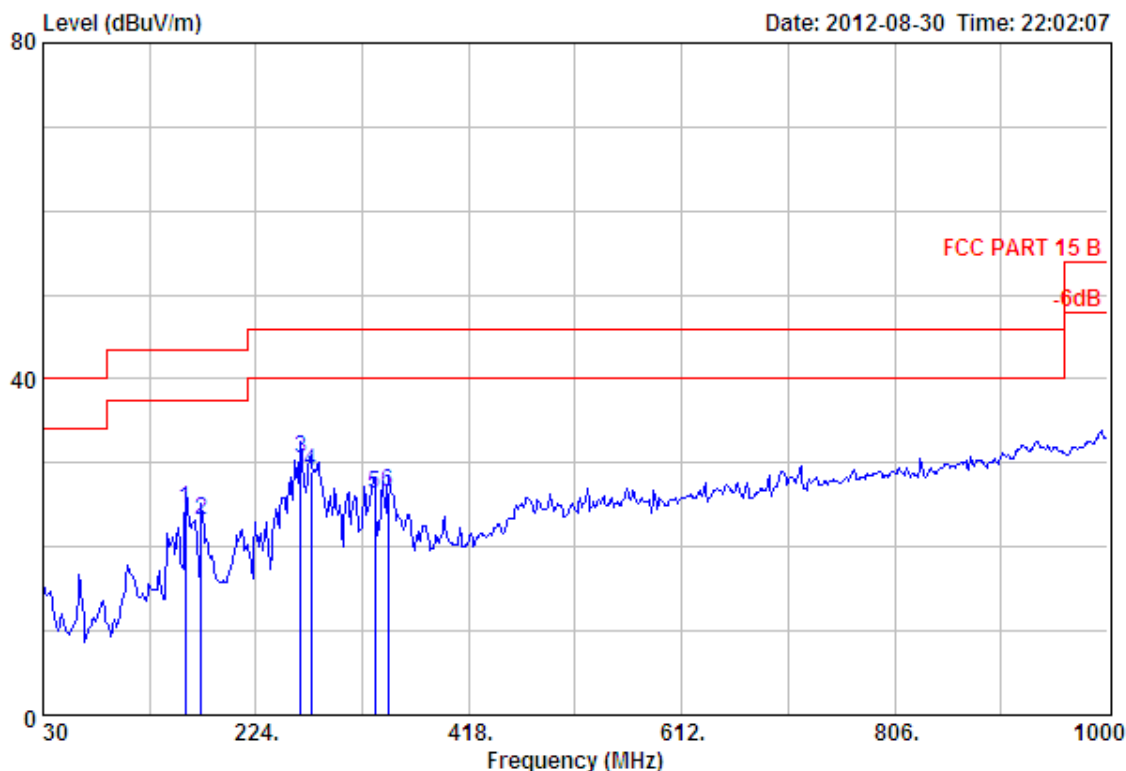
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)
1	36.79	14.52	2.06	6.49	23.07	40.00	16.93	QP
2	48.43	8.37	2.30	9.32	19.99	40.00	20.01	QP
3	85.29	7.72	2.87	6.12	16.71	40.00	23.29	QP
4	143.49	11.29	3.71	2.75	17.75	43.50	25.75	QP
5	159.98	10.36	3.89	2.97	17.22	43.50	26.28	QP
6	259.89	12.97	4.93	3.34	21.24	46.00	24.76	QP

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Data: 393 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 22:02:07



Site no. : 3m Chamber Data no. : 393
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : n/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 (dB)
1	159.98	10.36	3.89	10.23	24.48	43.50	19.02	QP
2	174.53	8.99	4.08	10.17	23.24	43.50	20.26	QP
3	264.74	12.94	4.97	12.72	30.63	46.00	15.37	QP
4	274.44	12.39	5.05	11.62	29.06	46.00	16.94	QP
5	332.64	13.93	5.52	6.77	26.22	46.00	19.78	QP
6	344.28	14.28	5.63	6.69	26.60	46.00	19.40	QP

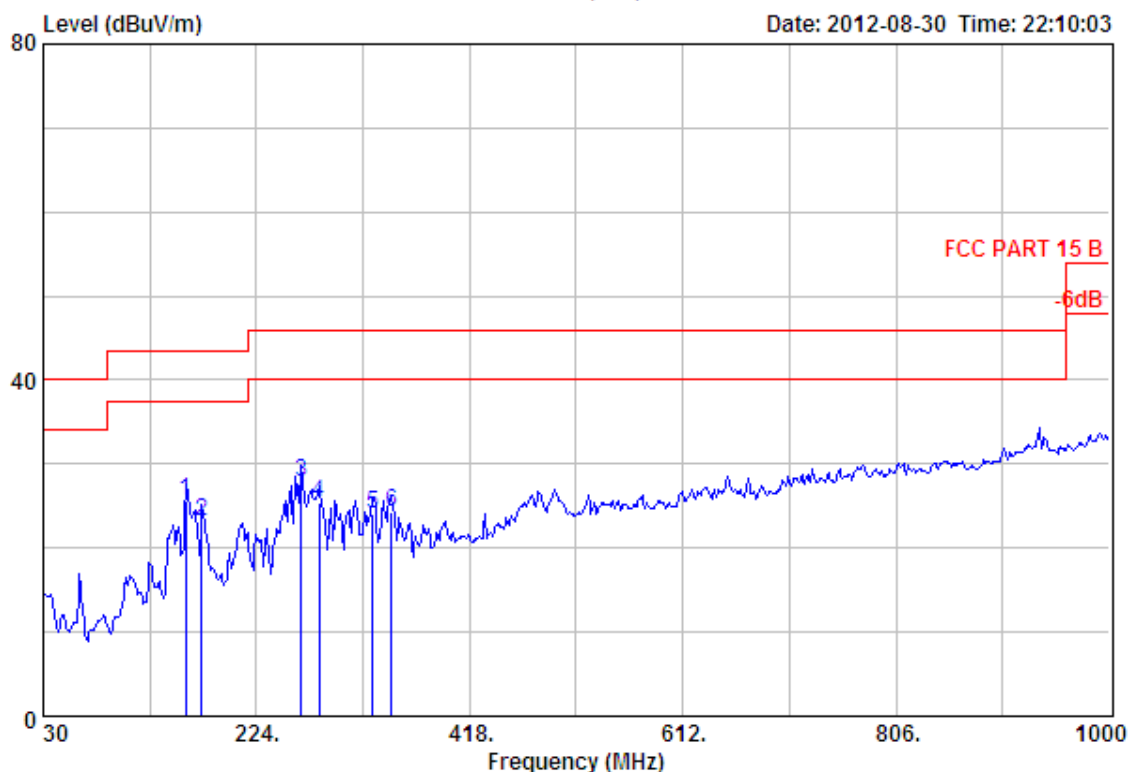
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Data: 394

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 22:10:03



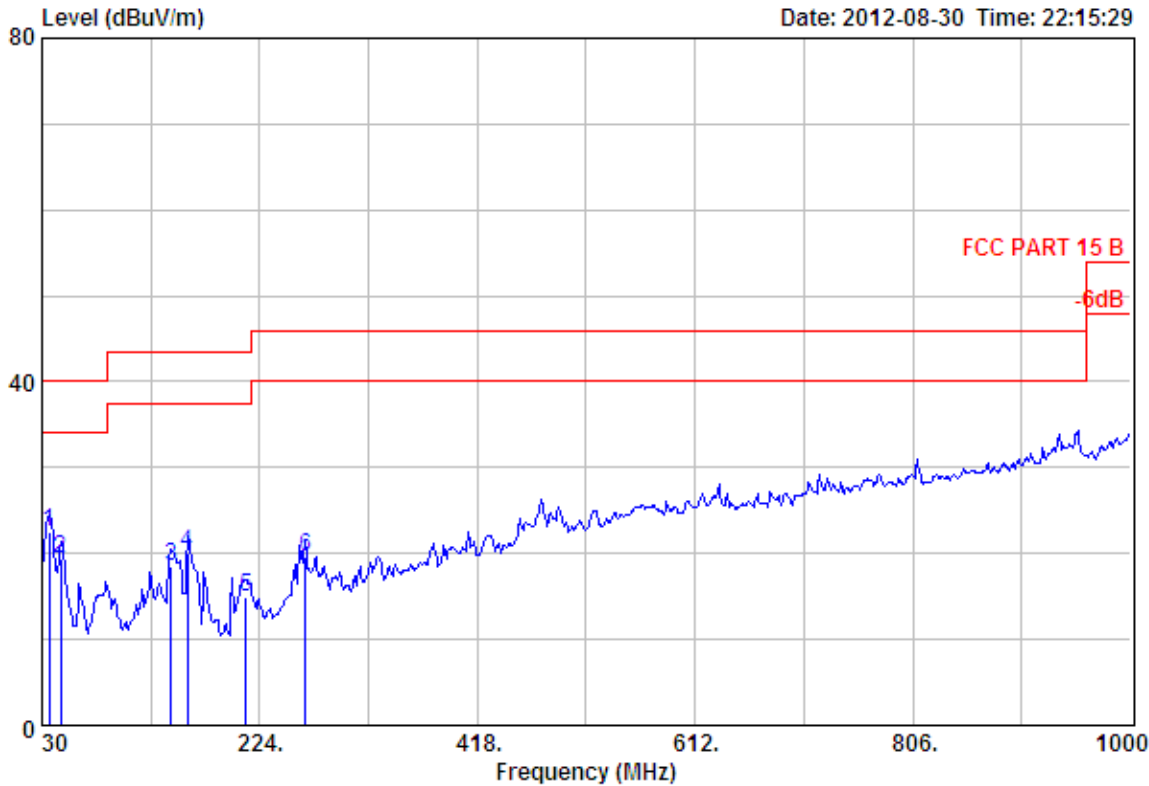
Site no. : 3m Chamber Data no. : 394
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : π/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	159.98	10.36	3.89	11.34	25.59	43.50	17.91	QP
2	174.53	8.99	4.08	10.08	23.15	43.50	20.35	QP
3	264.74	12.94	4.97	9.89	27.80	46.00	18.20	QP
4	281.23	12.41	5.09	7.93	25.43	46.00	20.57	QP
5	329.73	13.85	5.47	4.65	23.97	46.00	22.03	QP
6	347.19	14.38	5.67	4.13	24.18	46.00	21.82	QP

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Data: 395 File: D:\test data\2012\H\Homni.EMI (403) Date: 2012-08-30 Time: 22:15:29



Site no. : 3m Chamber Data no. : 395
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : n/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission		Margin (dB)	Reamark
					Level (dBUV/m)	Limits (dBUV/m)		
1	36.79	14.52	2.06	6.02	22.60	40.00	17.40	QP
2	46.49	9.20	2.28	7.88	19.36	40.00	20.64	QP
3	145.43	11.22	3.73	3.59	18.54	43.50	24.96	QP
4	159.98	10.36	3.89	5.90	20.15	43.50	23.35	QP
5	211.39	8.51	4.34	2.10	14.95	43.50	28.55	QP
6	264.74	12.94	4.97	1.69	19.60	46.00	26.40	QP

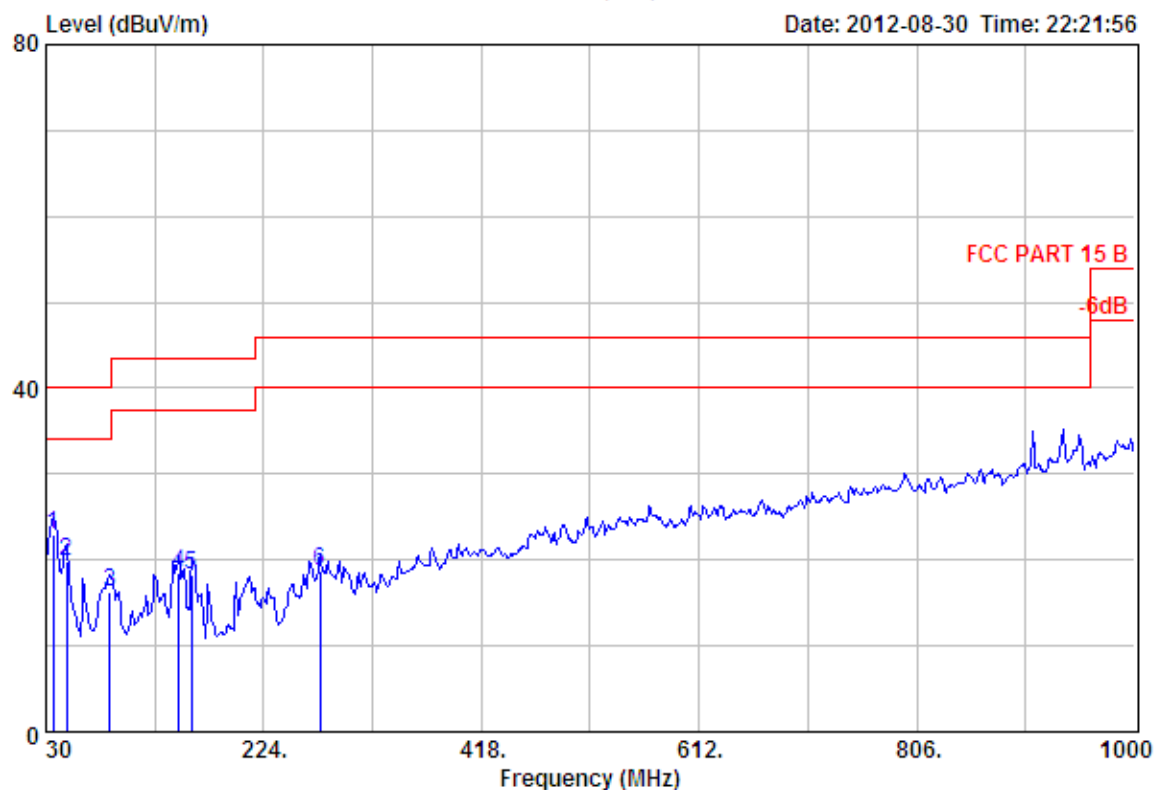
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Data: 396

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 22:21:56

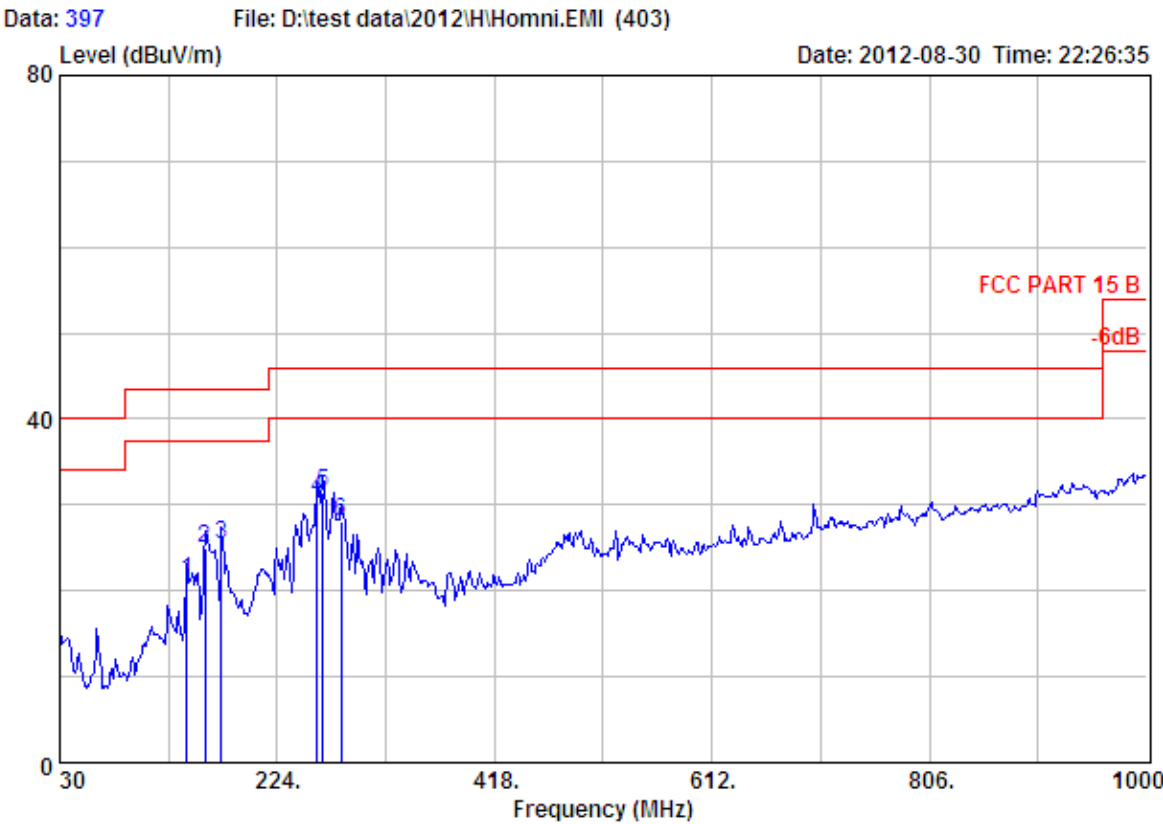


Site no. : 3m Chamber Data no. : 396
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : π/4-DQPSK TX 2480MHz

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Reamark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)
1	36.79	14.52	2.06	6.29	22.87	40.00	17.13	QP
2	48.43	8.37	2.30	9.23	19.90	40.00	20.10	QP
3	87.23	7.97	2.96	5.41	16.34	40.00	23.66	QP
4	148.34	11.00	3.76	3.67	18.43	43.50	25.07	QP
5	159.98	10.36	3.89	3.93	18.18	43.50	25.32	QP
6	274.44	12.39	5.05	1.31	18.75	46.00	27.25	QP

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Site no. : 3m Chamber Data no. : 397
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : n/4-DQPSK TX 2480MHz

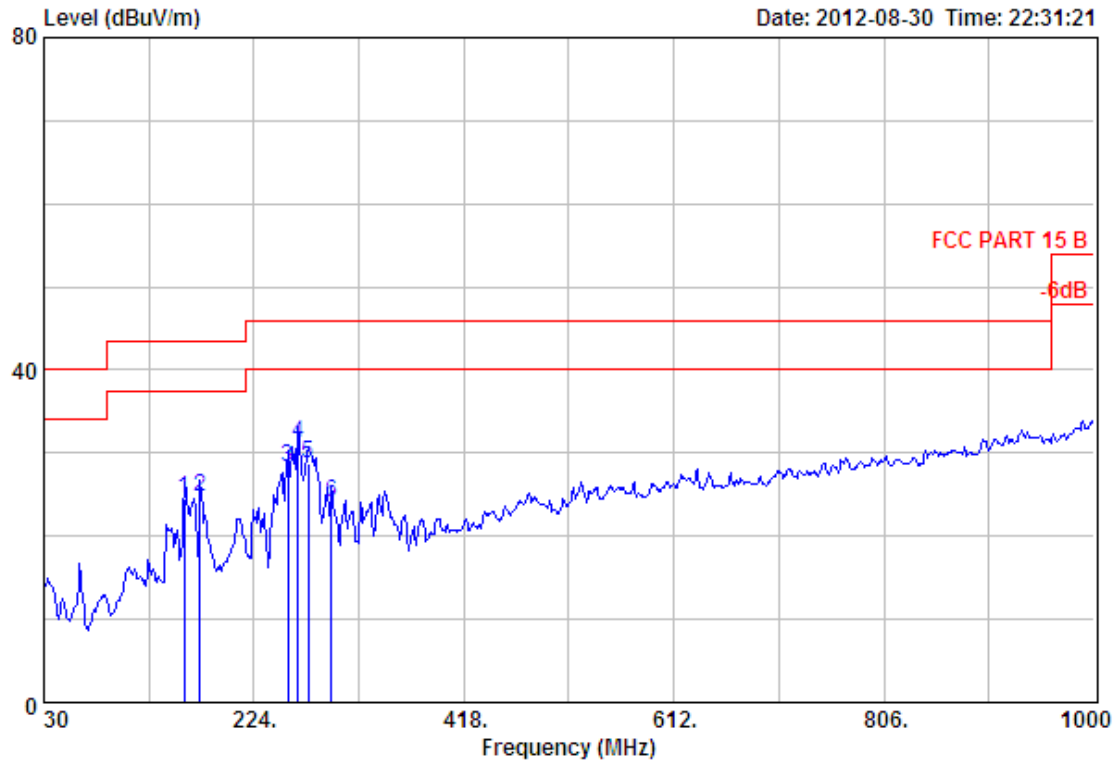
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reamark (dB)
1	143.49	11.29	3.71	6.13	21.13	43.50	22.37	QP
2	159.98	10.36	3.89	10.76	25.01	43.50	18.49	QP
3	174.53	8.99	4.08	12.44	25.51	43.50	17.99	QP
4	259.89	12.97	4.93	12.79	30.69	46.00	15.31	QP
5	264.74	12.94	4.97	13.43	31.34	46.00	14.66	QP
6	281.23	12.41	5.09	10.67	28.17	46.00	17.83	QP

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Data: 398 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 22:31:21

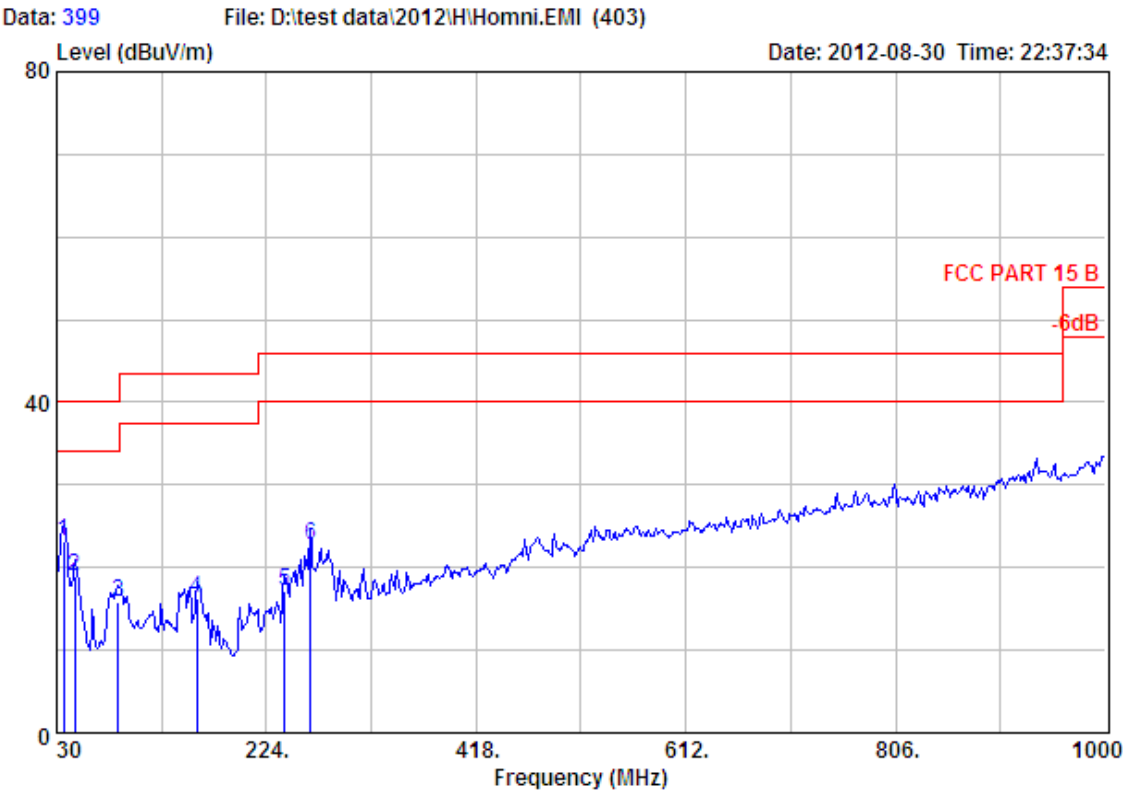


Site no. : 3m Chamber Data no. : 398
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Reamark (dB)
1	159.98	10.36	3.89	10.25	24.50	43.50	19.00	QP
2	174.53	8.99	4.08	11.70	24.77	43.50	18.73	QP
3	255.04	12.41	4.87	10.92	28.20	46.00	17.80	QP
4	264.74	12.94	4.97	13.32	31.23	46.00	14.77	QP
5	274.44	12.39	5.05	11.30	28.74	46.00	17.26	QP
6	295.78	12.98	5.21	5.84	24.03	46.00	21.97	QP

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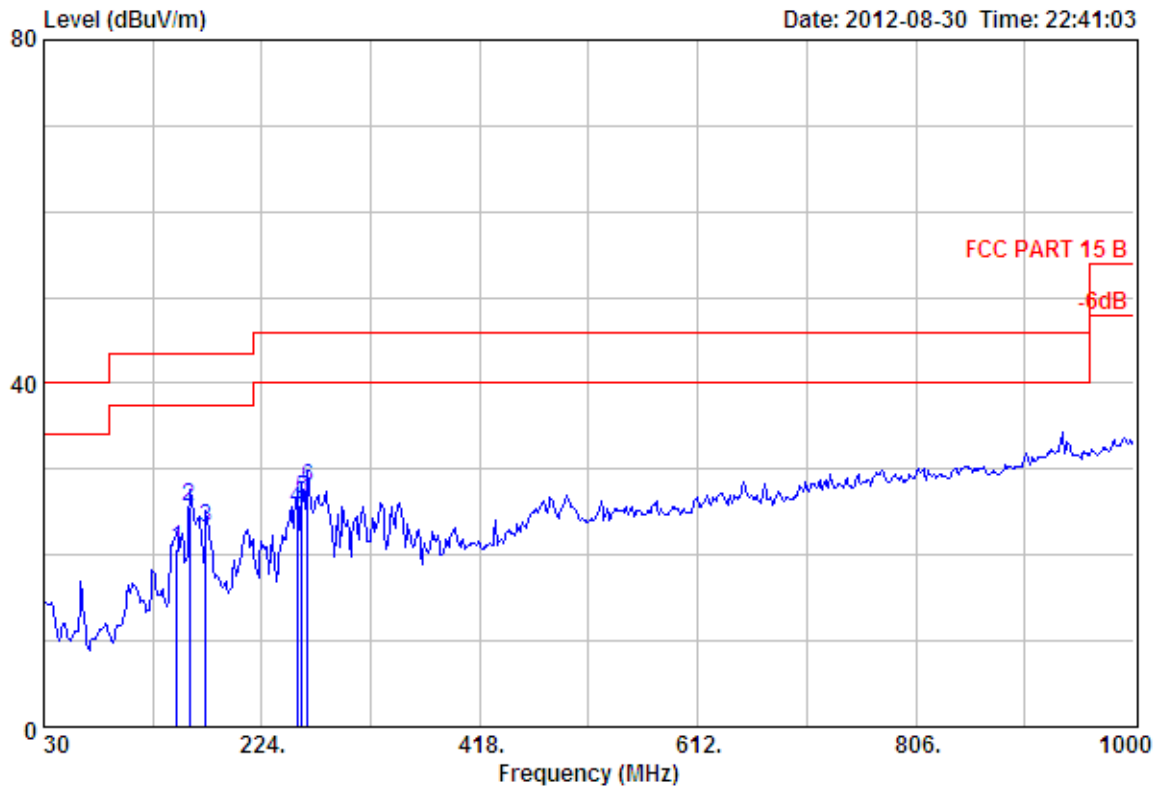
Site no. : 3m Chamber Data no. : 399
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
Limit : FCC PART 15 B
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission		Margin (dB)	Remark
					Level (dBUV/m)	Limits (dBUV/m)		
1	36.79	14.52	2.06	6.49	23.07	40.00	16.93	QP
2	46.49	9.20	2.28	7.39	18.87	40.00	21.13	QP
3	87.23	7.97	2.96	4.94	15.87	40.00	24.13	QP
4	159.98	10.36	3.89	1.93	16.18	43.50	27.32	QP
5	240.49	10.36	4.71	2.05	17.12	46.00	28.88	QP
6	264.74	12.94	4.97	4.83	22.74	46.00	23.26	QP

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Data: 400 File: D:\test data\2012\H\Homni.EMI (403)



Site no. : 3m Chamber Data no. : 400
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : 8-DPSK TX 2441MHz

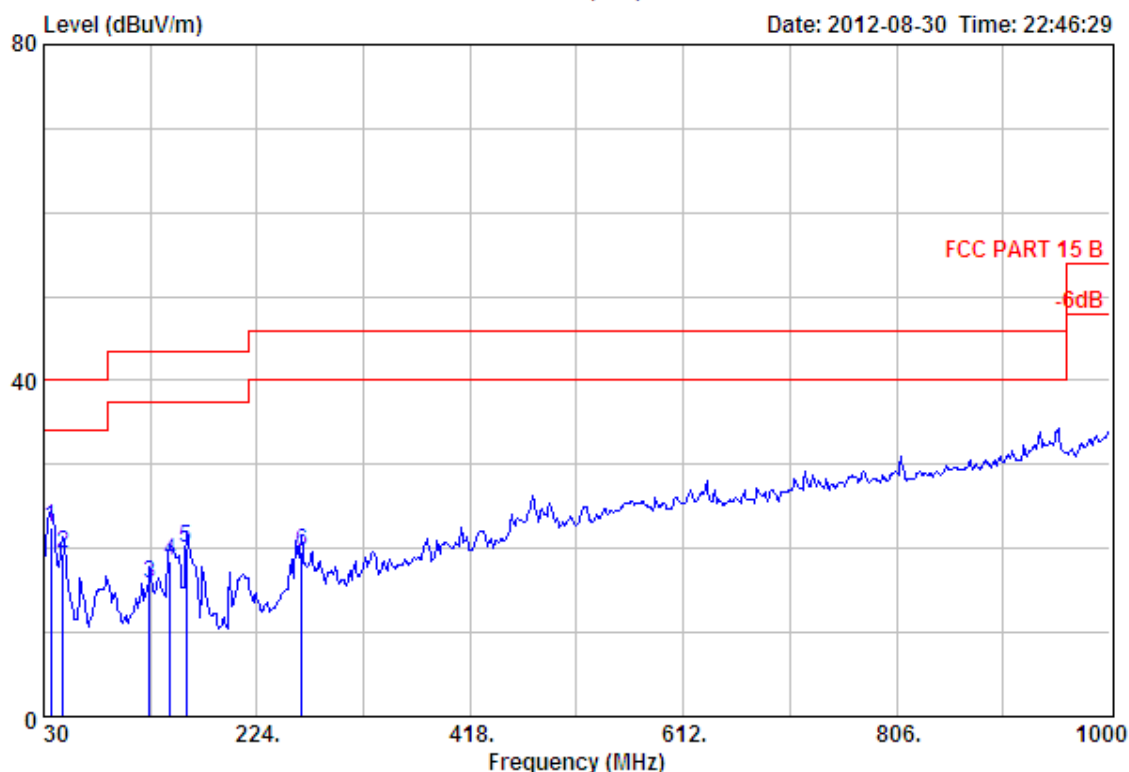
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark (dB)
1	148.34	11.00	3.76	5.93	20.69	43.50	22.81	QP
2	159.98	10.36	3.89	11.34	25.59	43.50	17.91	QP
3	174.53	8.99	4.08	10.08	23.15	43.50	20.35	QP
4	255.04	12.41	4.87	8.14	25.42	46.00	20.58	QP
5	259.89	12.97	4.93	8.69	26.59	46.00	19.41	QP
6	264.74	12.94	4.97	9.89	27.80	46.00	18.20	QP

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Data: 401 File: D:\test data\2012\HH\Homni.EMI (403)

Date: 2012-08-30 Time: 22:46:29



Site no. : 3m Chamber Data no. : 401
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : 8-DPSK TX 2441MHz

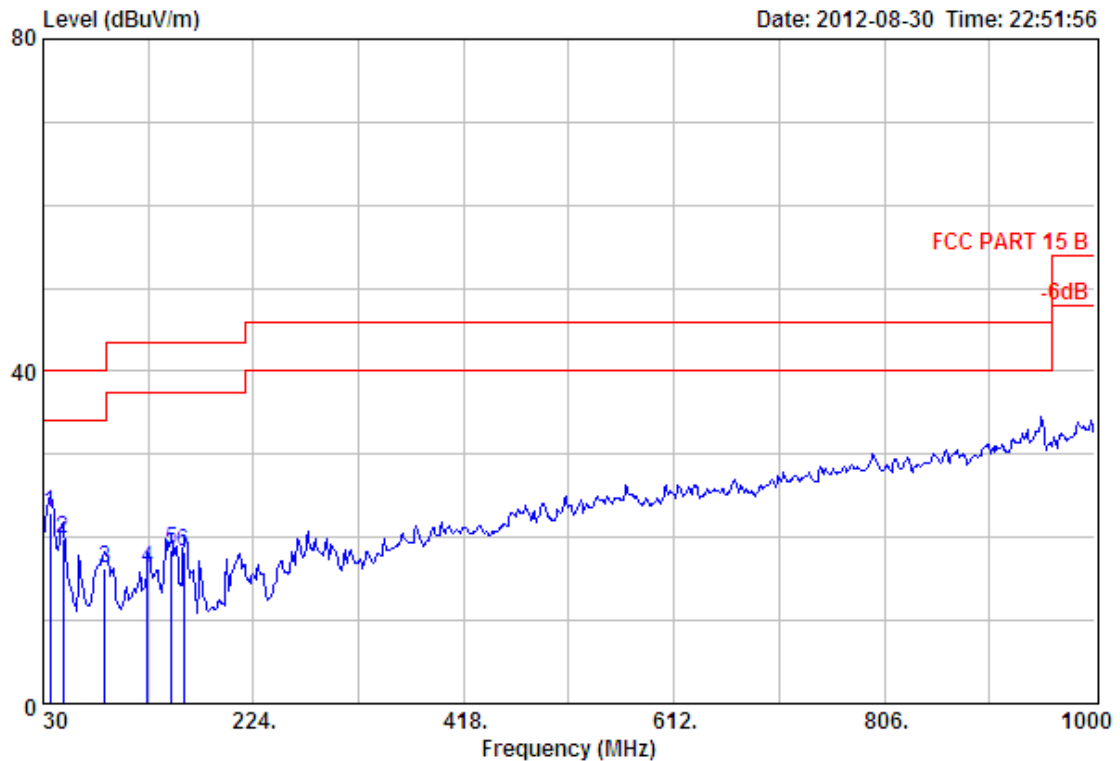
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Reamark (dB)
1	36.79	14.52	2.06	6.02	22.60	40.00	17.40	QP
2	47.46	8.78	2.29	8.25	19.32	40.00	20.68	QP
3	126.03	11.34	3.44	1.05	15.83	43.50	27.67	QP
4	145.43	11.22	3.73	3.59	18.54	43.50	24.96	QP
5	159.98	10.36	3.89	5.90	20.15	43.50	23.35	QP
6	264.74	12.94	4.97	1.69	19.60	46.00	26.40	QP

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Data: 402 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 22:51:56



Site no. : 3m Chamber Data no. : 402
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : 8-DPSK TX 2480MHz

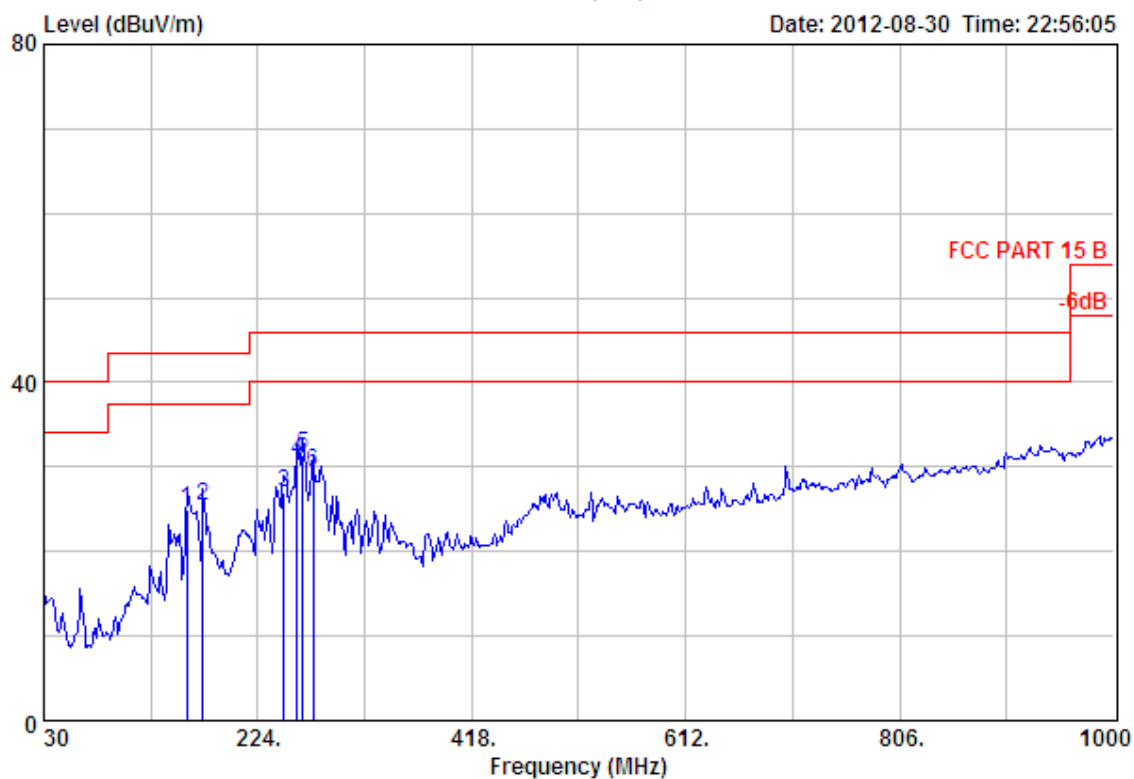
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Reamark (dB)
1	36.79	14.52	2.06	6.29	22.87	40.00	17.13	QP
2	48.43	8.37	2.30	9.23	19.90	40.00	20.10	QP
3	87.23	7.97	2.96	5.41	16.34	40.00	23.66	QP
4	126.03	11.34	3.44	1.45	16.23	43.50	27.27	QP
5	148.34	11.00	3.76	3.67	18.43	43.50	25.07	QP
6	159.98	10.36	3.89	3.93	18.18	43.50	25.32	QP

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Data: 403 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 22:56:05



Site no. : 3m Chamber Data no. : 403
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
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	159.98	10.36	3.89	10.76	25.01	43.50	18.49	QP
2	174.53	8.99	4.08	12.44	25.51	43.50	17.99	QP
3	247.28	11.36	4.78	10.84	26.98	46.00	19.02	QP
4	259.89	12.97	4.93	12.79	30.69	46.00	15.31	QP
5	264.74	12.94	4.97	13.43	31.34	46.00	14.66	QP
6	274.44	12.39	5.05	12.05	29.49	46.00	16.51	QP

1000 MHz – 18000MHz

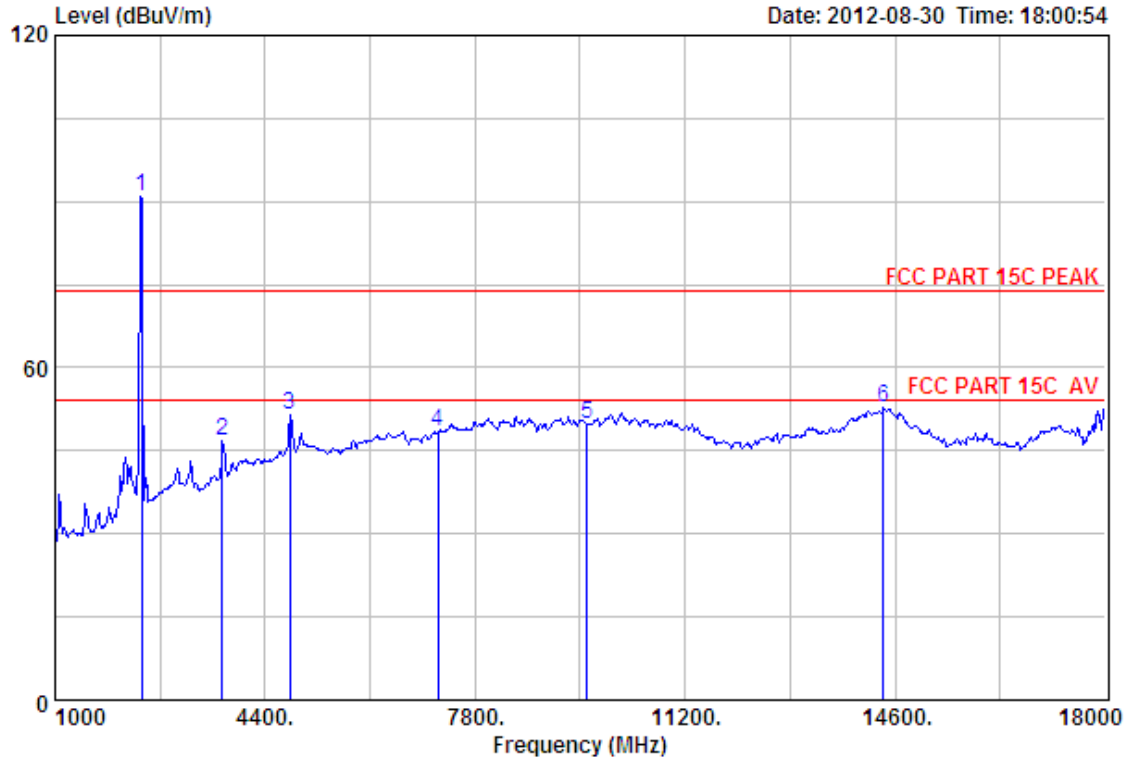
EST Technology

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Data: 308

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:00:54



Site no. : 3m Chamber Data no. : 308
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	34.18	90.91	90.96	74.00	-16.96	Peak
2	3703.00	28.89	9.60	32.66	41.12	46.95	74.00	27.05	Peak
3	4804.00	31.25	11.77	31.81	40.12	51.33	74.00	22.67	Peak
4	7206.00	36.52	11.54	32.11	32.45	48.40	74.00	25.60	Peak
5	9608.00	37.91	11.69	31.93	32.22	49.89	74.00	24.11	Peak
6	14413.00	41.80	10.92	32.78	32.92	52.86	74.00	21.14	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.

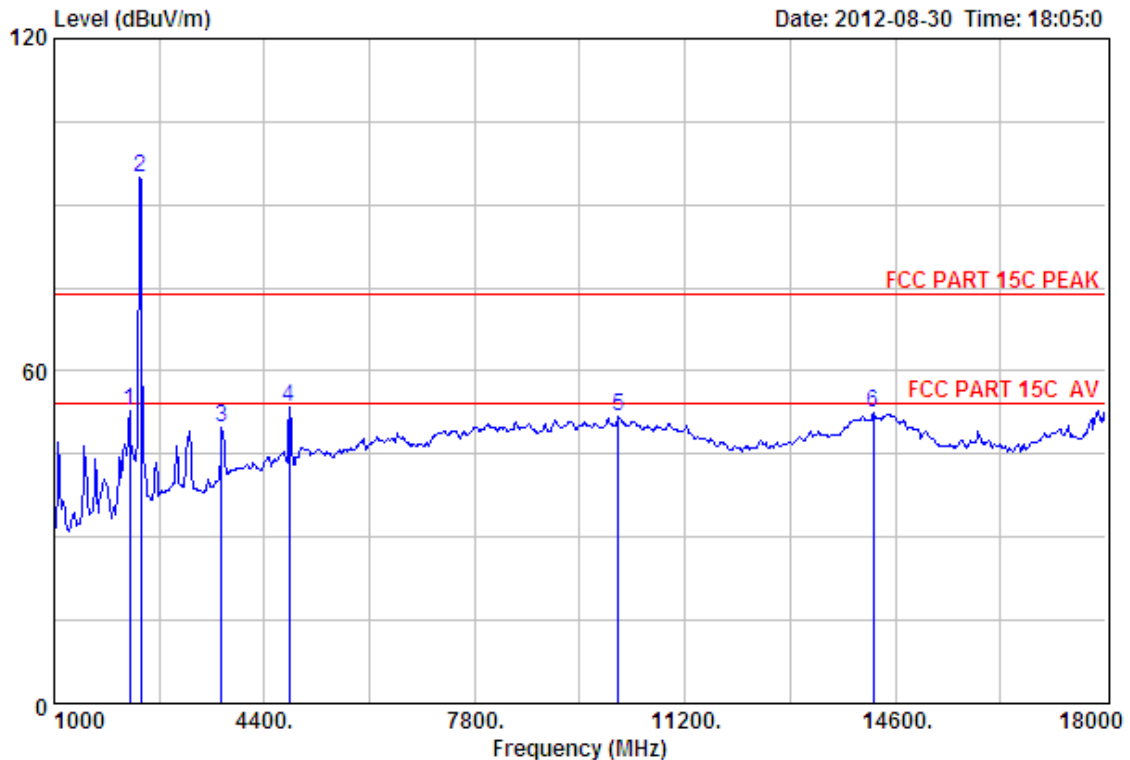
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Data: 309

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:05:0



Site no. : 3m Chamber Data no. : 309
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2402MHz

	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2224.00	27.81	6.43	34.30	52.89	52.83	74.00	21.17	Peak
2	2402.00	27.61	6.62	34.18	94.77	94.82	74.00	-20.82	Peak
3	3703.00	28.89	9.60	32.66	44.08	49.91	74.00	24.09	Peak
4	4804.00	31.25	11.77	31.81	42.36	53.57	74.00	20.43	Peak
5	10129.00	38.33	11.52	32.01	33.81	51.65	74.00	22.35	Peak
6	14243.00	41.67	10.91	33.24	33.02	52.36	74.00	21.64	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.

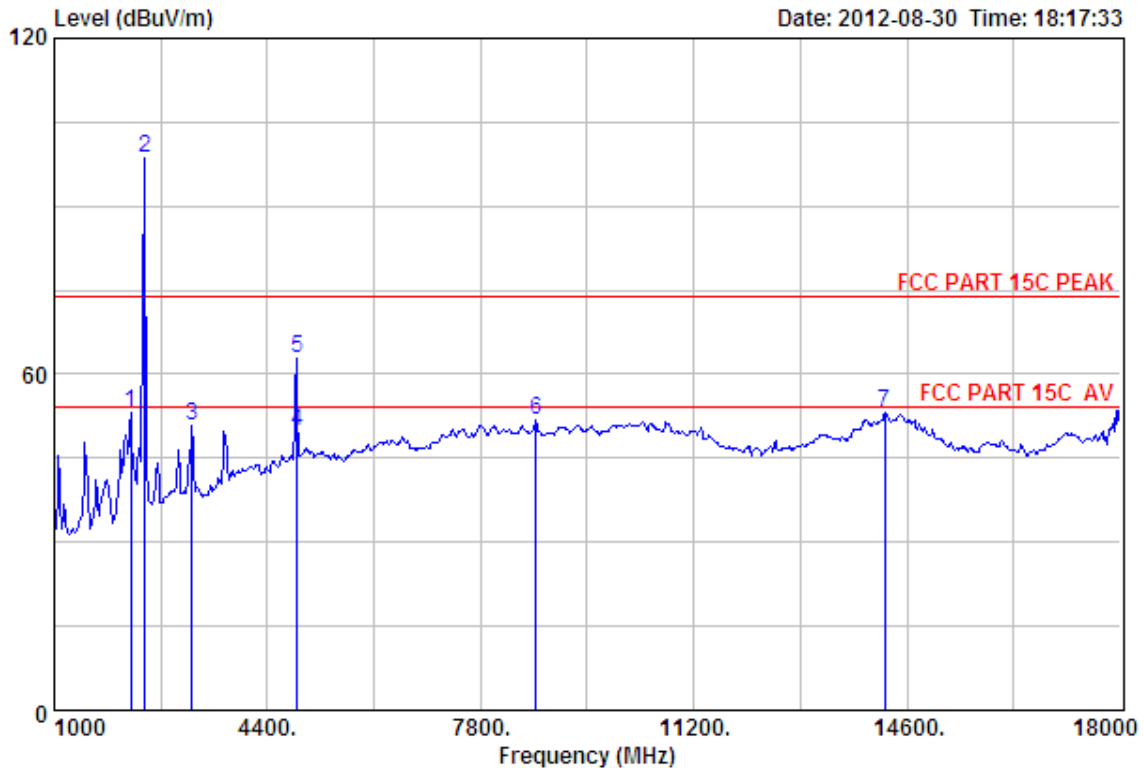
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Data: 314

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:17:33



Site no. : 3m Chamber Data no. : 314
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2224.00	27.81	6.43	34.30	53.11	53.05	74.00	20.95	Peak
2	2441.00	27.60	6.67	34.12	98.61	98.76	74.00	-24.76	Peak
3	3193.00	28.23	8.91	33.26	47.02	50.90	74.00	23.10	Peak
4	4882.00	31.37	12.07	31.90	38.30	49.84	54.00	4.16	Average
5	4882.00	31.37	12.07	31.90	51.30	62.84	74.00	11.16	Peak
6	8684.00	37.32	11.45	32.43	35.41	51.75	74.00	22.25	Peak
7	14243.00	41.67	10.91	33.24	33.69	53.03	74.00	20.97	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.

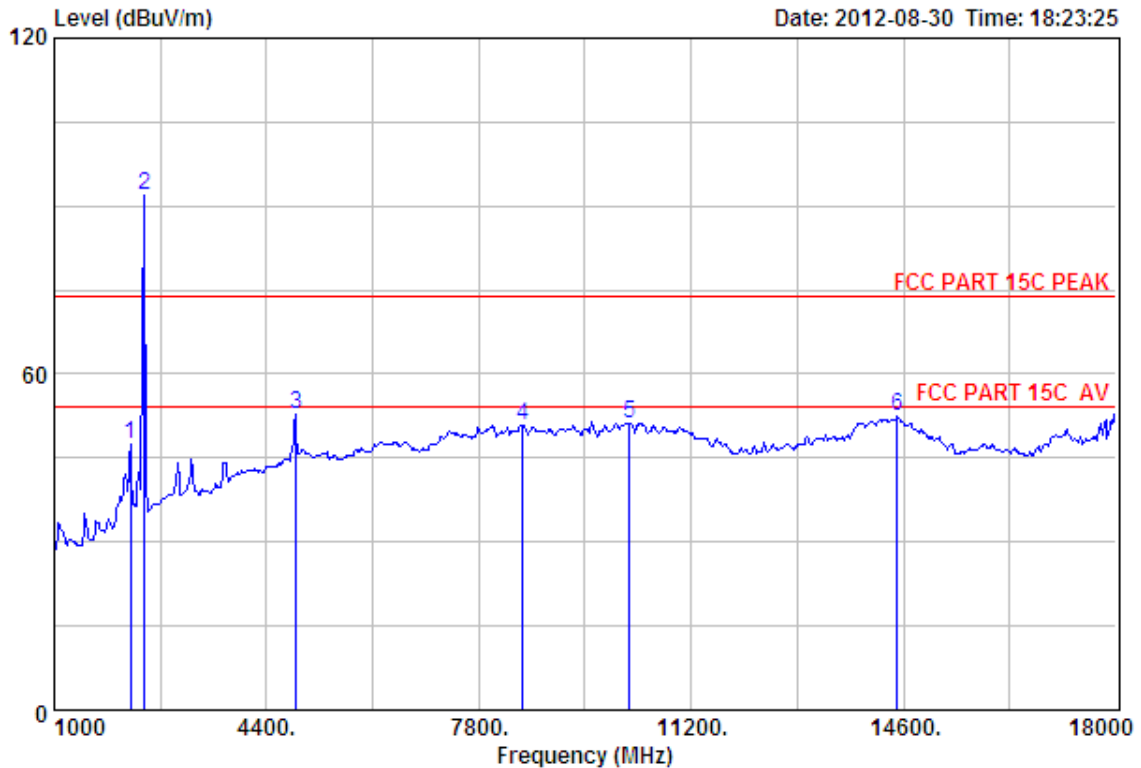
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Data: 315

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:23:25



Site no. : 3m Chamber Data no. : 315
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2441MHz

	Freq.	Ant.	Cable	Amp	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2224.00	27.81	6.43	34.30	47.46	47.40	74.00	26.60	Peak
2	2441.00	27.60	6.67	34.12	91.88	92.03	74.00	-18.03	Peak
3	4882.00	31.37	12.07	31.90	41.44	52.98	74.00	21.02	Peak
4	8497.00	36.96	11.45	31.91	34.27	50.77	74.00	23.23	Peak
5	10214.00	38.48	11.47	32.17	33.52	51.30	74.00	22.70	Peak
6	14498.00	41.88	10.93	33.08	32.73	52.46	74.00	21.54	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.

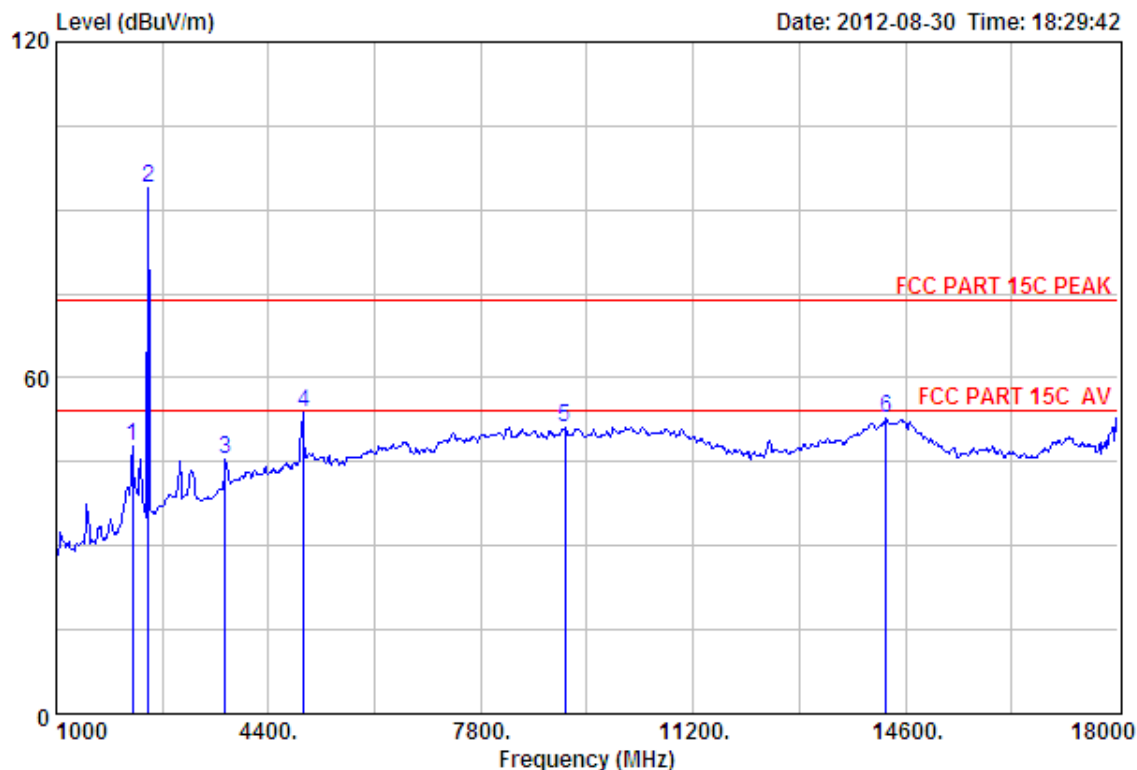
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Data: 316

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:29:42



Site no. : 3m Chamber Data no. : 316
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2480MHz

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2224.00	27.81	6.43	34.30	47.77	47.71	74.00	26.29	Peak
2	2480.00	27.58	6.71	34.03	93.68	93.94	74.00	-19.94	Peak
3	3703.00	28.89	9.60	32.66	39.69	45.52	74.00	28.48	Peak
4	4960.00	31.49	12.44	31.97	41.72	53.68	74.00	20.32	Peak
5	9143.00	37.65	11.53	32.39	34.34	51.13	74.00	22.87	Peak
6	14294.00	41.71	10.92	33.08	33.15	52.70	74.00	21.30	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.

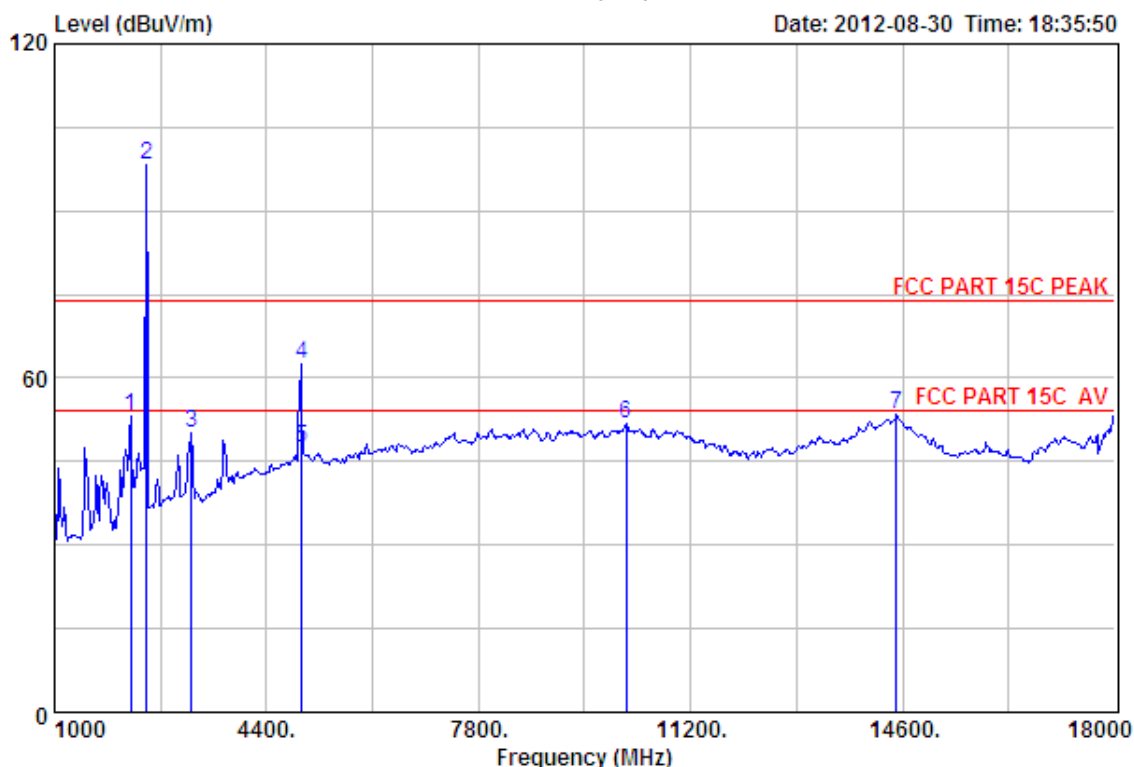
EST Technology

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Data: 317

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:35:50



Site no. : 3m Chamber Data no. : 317
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2224.00	27.81	6.43	34.30	53.30	53.24	74.00	20.76	Peak
2	2480.00	27.58	6.71	34.03	97.87	98.13	74.00	-24.13	Peak
3	3193.00	28.23	8.91	33.26	46.29	50.17	74.00	23.83	Peak
4	4960.00	31.49	12.44	31.97	50.61	62.57	74.00	11.43	Peak
5	4960.00	31.49	12.44	31.97	35.61	47.57	54.00	6.43	Average
6	10163.00	38.39	11.50	32.08	34.01	51.82	74.00	22.18	Peak
7	14498.00	41.88	10.93	33.08	33.65	53.38	74.00	20.62	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.

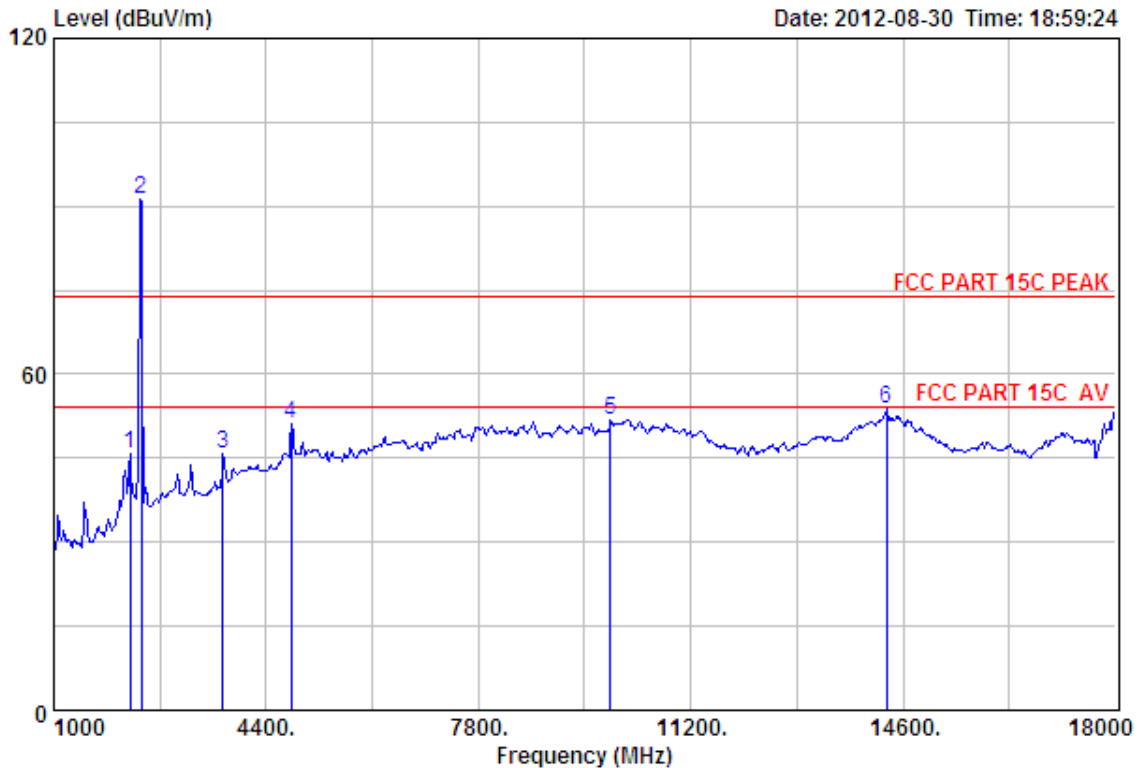
EST Technology

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Data: 326

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:59:24



Site no. : 3m Chamber Data no. : 326
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : n/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	2224.00	27.81	6.43	34.30	45.98	45.92	74.00	28.08	Peak
2	2402.00	27.61	6.62	34.18	91.10	91.15	74.00	-17.15	Peak
3	3703.00	28.89	9.60	32.66	39.97	45.80	74.00	28.20	Peak
4	4804.00	31.25	11.77	31.81	39.95	51.16	74.00	22.84	Peak
5	9908.00	38.14	11.61	31.76	33.91	51.90	74.00	22.10	Peak
6	14328.00	41.74	10.92	32.98	34.05	53.73	74.00	20.27	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.

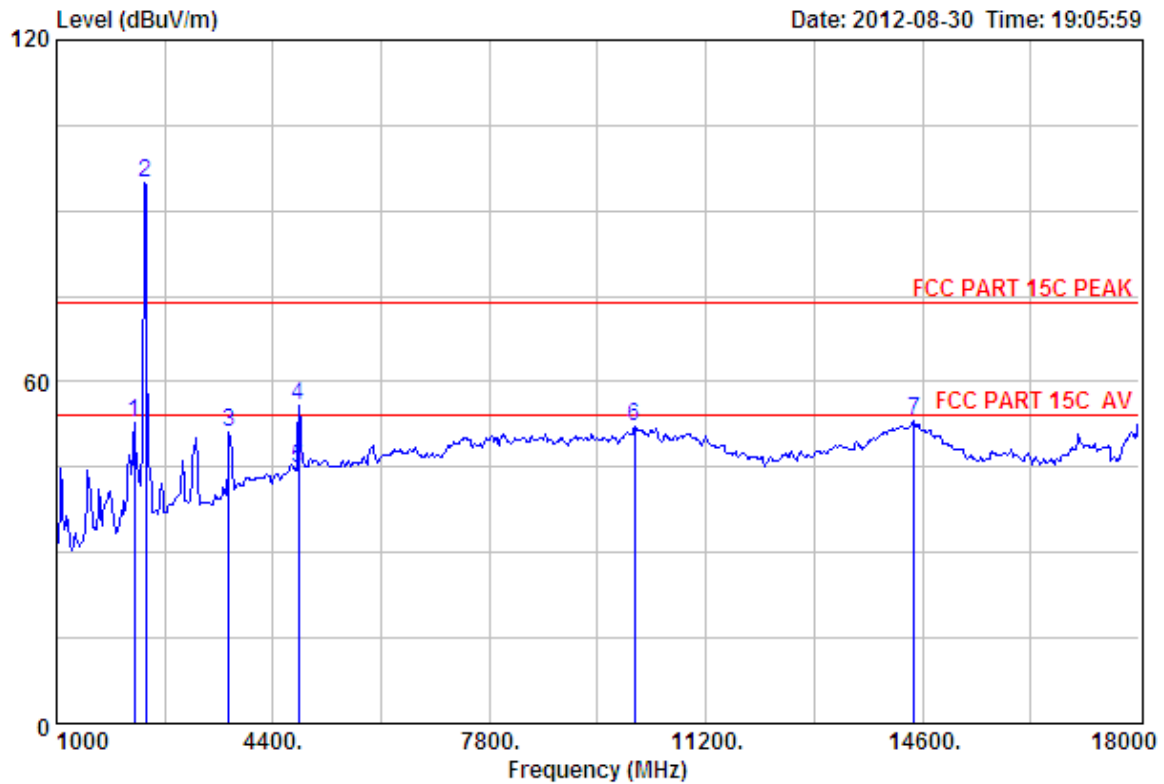
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Data: 327

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:05:59



Site no. : 3m Chamber Data no. : 327
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2224.00	27.81	6.43	34.30	52.79	52.73	74.00	21.27	Peak
2	2402.00	27.61	6.62	34.18	94.80	94.85	74.00	-20.85	Peak
3	3703.00	28.89	9.60	32.66	45.40	51.23	74.00	22.77	Peak
4	4804.00	31.25	11.77	31.81	44.47	55.68	74.00	18.32	Peak
5	4804.00	31.25	11.77	31.81	33.47	44.68	54.00	9.32	Average
6	10078.00	38.24	11.54	31.92	34.19	52.05	74.00	21.95	Peak
7	14464.00	41.85	10.93	32.96	33.25	53.07	74.00	20.93	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.

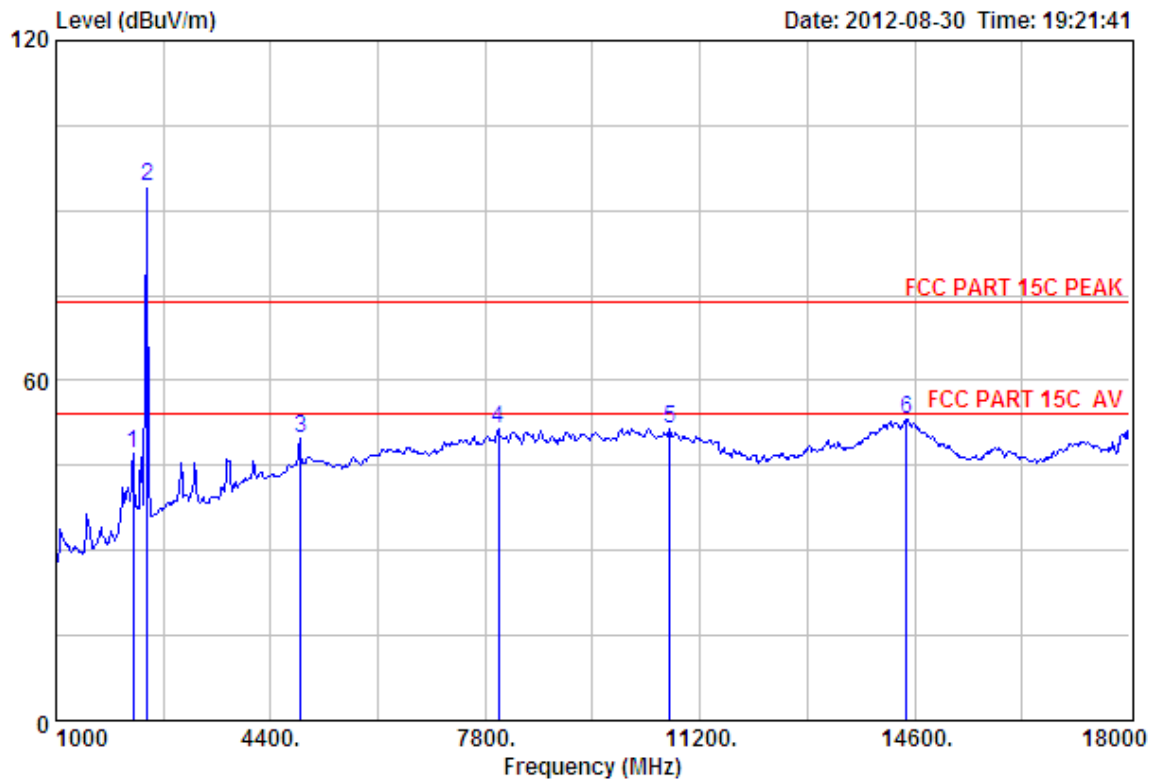
EST Technology

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Data: 330

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:21:41



Site no. : 3m Chamber Data no. : 330
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2224.00	27.81	6.43	34.30	47.18	47.12	74.00	26.88	Peak
2	2441.00	27.60	6.67	34.12	94.02	94.17	74.00	-20.17	Peak
3	4882.00	31.37	12.07	31.90	38.18	49.72	74.00	24.28	Peak
4	8004.00	37.01	11.40	31.22	34.19	51.38	74.00	22.62	Peak
5	10724.00	39.22	11.30	33.14	34.18	51.56	74.00	22.44	Peak
6	14464.00	41.85	10.93	32.96	33.29	53.11	74.00	20.89	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.

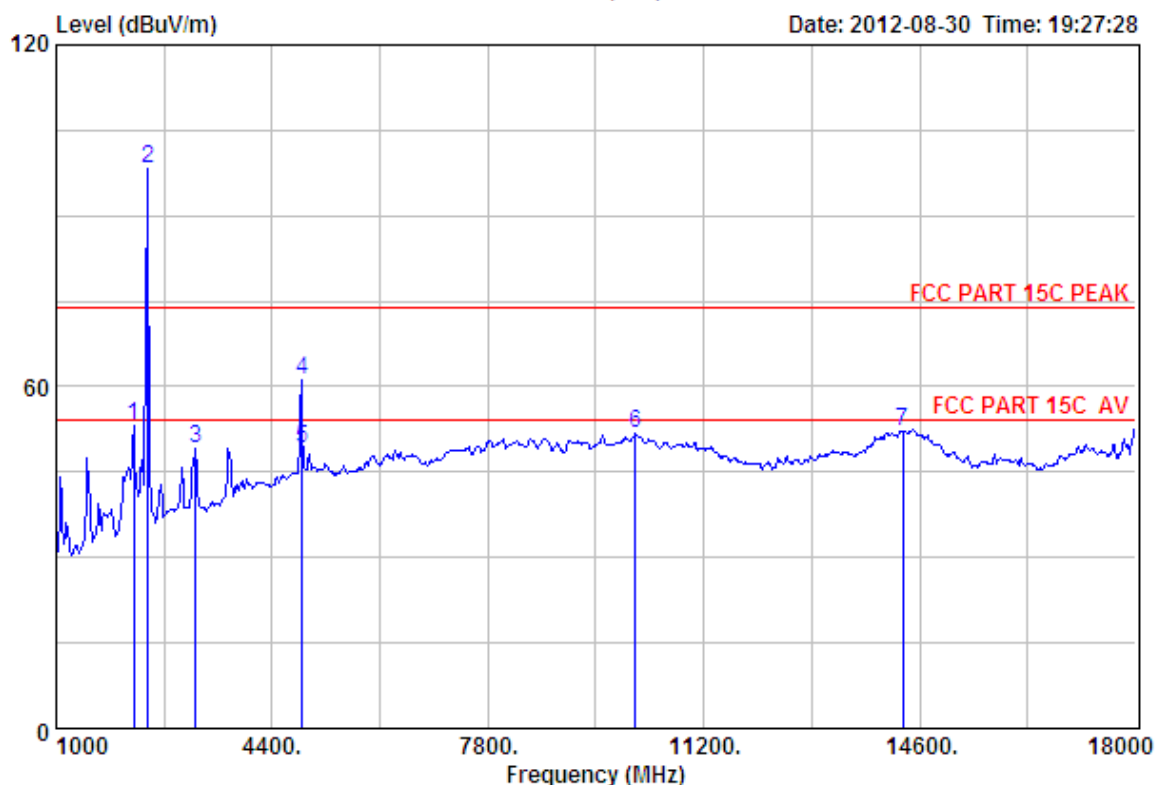
EST Technology

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Data: 331

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:27:28



Site no. : 3m Chamber Data no. : 331
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2224.00	27.81	6.43	34.30	53.35	53.29	74.00	20.71	Peak
2	2441.00	27.60	6.67	34.12	97.99	98.14	74.00	-24.14	Peak
3	3193.00	28.23	8.91	33.26	45.26	49.14	74.00	24.86	Peak
4	4882.00	31.37	12.07	31.90	49.58	61.12	74.00	12.88	Peak
5	4882.00	31.37	12.07	31.90	37.58	49.12	54.00	4.88	Average
6	10129.00	38.33	11.52	32.01	33.82	51.66	74.00	22.34	Peak
7	14328.00	41.74	10.92	32.98	32.54	52.22	74.00	21.78	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.

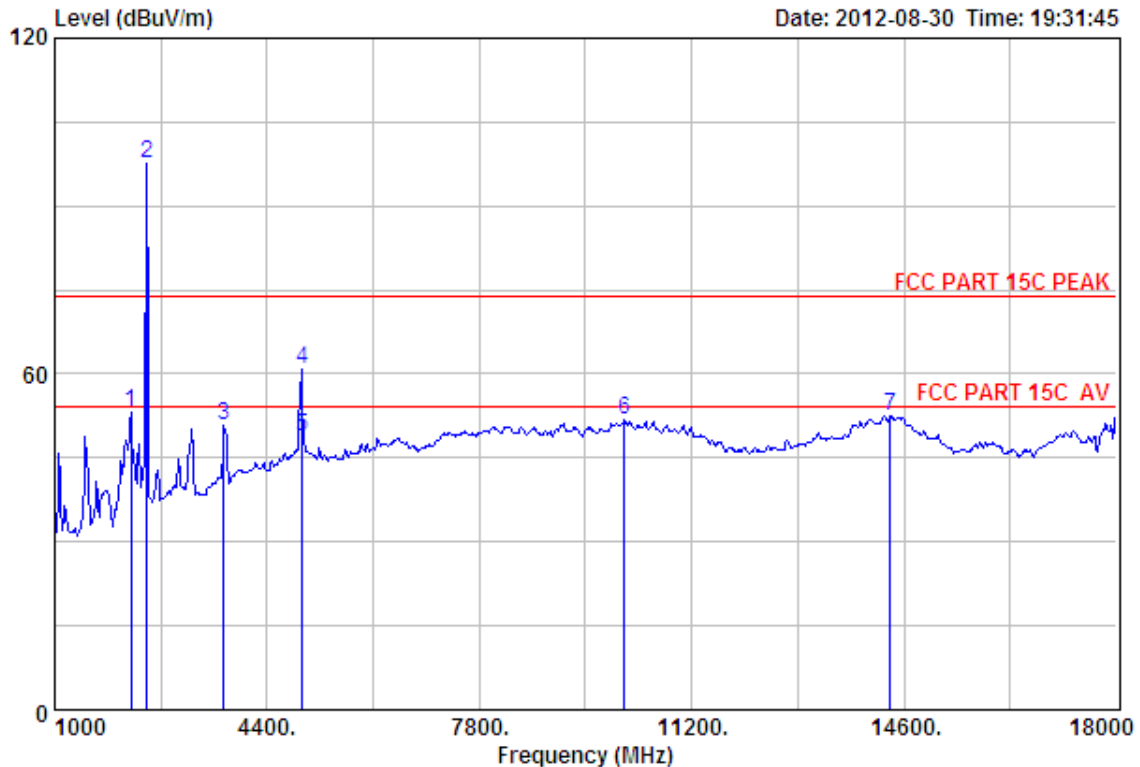
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Data: 332

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:31:45



Site no. : 3m Chamber Data no. : 332
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : n/4-DQPSK TX 2480MHz

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2224.00	27.81	6.43	34.30	53.35	53.29	74.00	20.71	Peak
2	2480.00	27.58	6.71	34.03	97.38	97.64	74.00	-23.64	Peak
3	3703.00	28.89	9.60	32.66	44.98	50.81	74.00	23.19	Peak
4	4960.00	31.49	12.44	31.97	48.98	60.94	74.00	13.06	Peak
5	4960.00	31.49	12.44	31.97	36.98	48.94	54.00	5.06	Average
6	10129.00	38.33	11.52	32.01	33.95	51.79	74.00	22.21	Peak
7	14379.00	41.77	10.92	32.88	32.82	52.63	74.00	21.37	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.

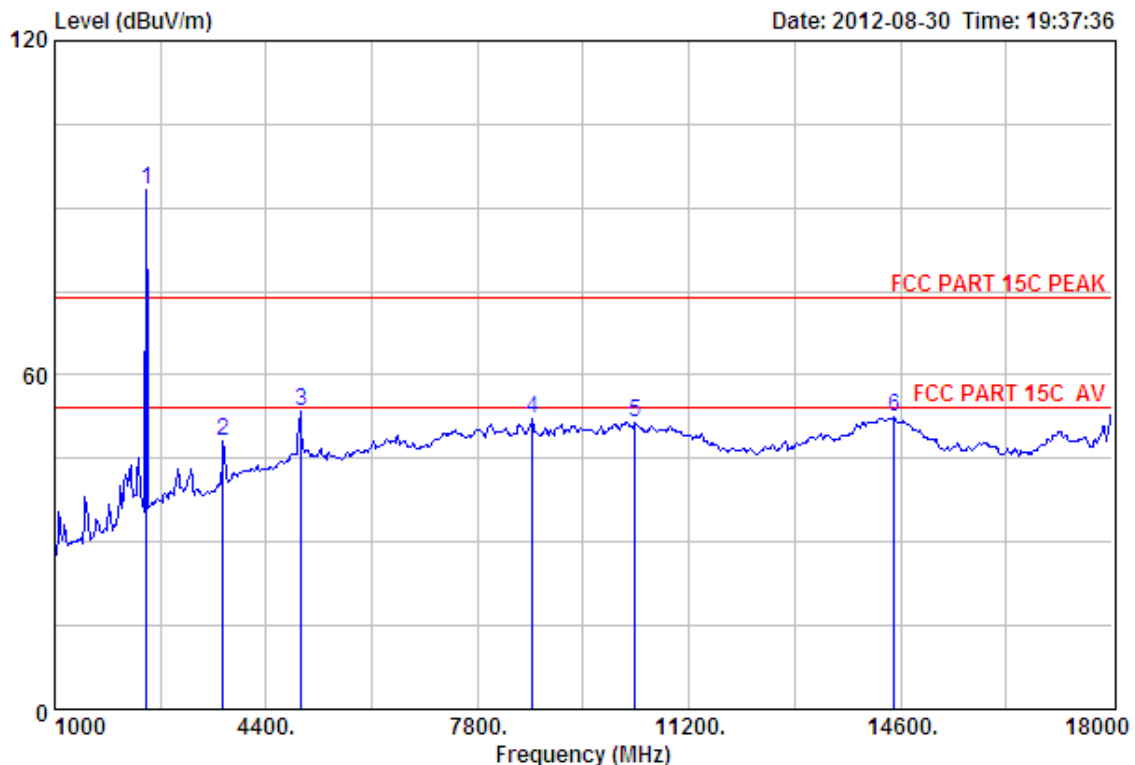
EST Technology

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Data: 333

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:37:36



Site no. : 3m Chamber Data no. : 333
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2480.00	27.58	6.71	34.03	93.05	93.31	74.00	-19.31	Peak
2	3703.00	28.89	9.60	32.66	42.22	48.05	74.00	25.95	Peak
3	4960.00	31.49	12.44	31.97	41.58	53.54	74.00	20.46	Peak
4	8684.00	37.32	11.45	32.43	35.64	51.98	74.00	22.02	Peak
5	10333.00	38.68	11.40	32.40	33.74	51.42	74.00	22.58	Peak
6	14498.00	41.88	10.93	33.08	32.86	52.59	74.00	21.41	Peak

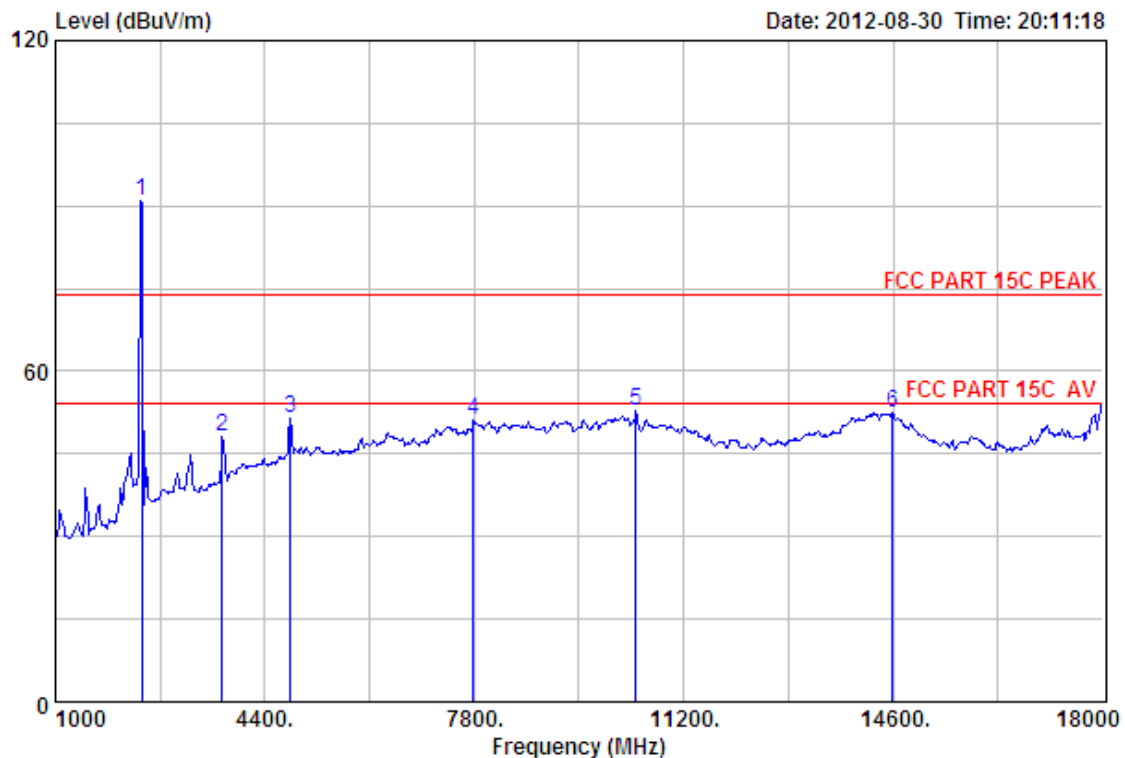
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 342 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:11:18



Site no. : 3m Chamber Data no. : 342
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	27.61	6.62	34.18	90.70	90.75	74.00	-16.75	Peak
2	28.89	9.60	32.66	42.42	48.25	74.00	25.75	Peak
3	31.25	11.77	31.81	40.25	51.46	74.00	22.54	Peak
4	36.59	11.50	31.45	34.36	51.00	74.00	23.00	Peak
5	38.83	11.36	32.56	35.15	52.78	74.00	21.22	Peak
6	41.65	10.92	33.38	33.28	52.47	74.00	21.53	Peak

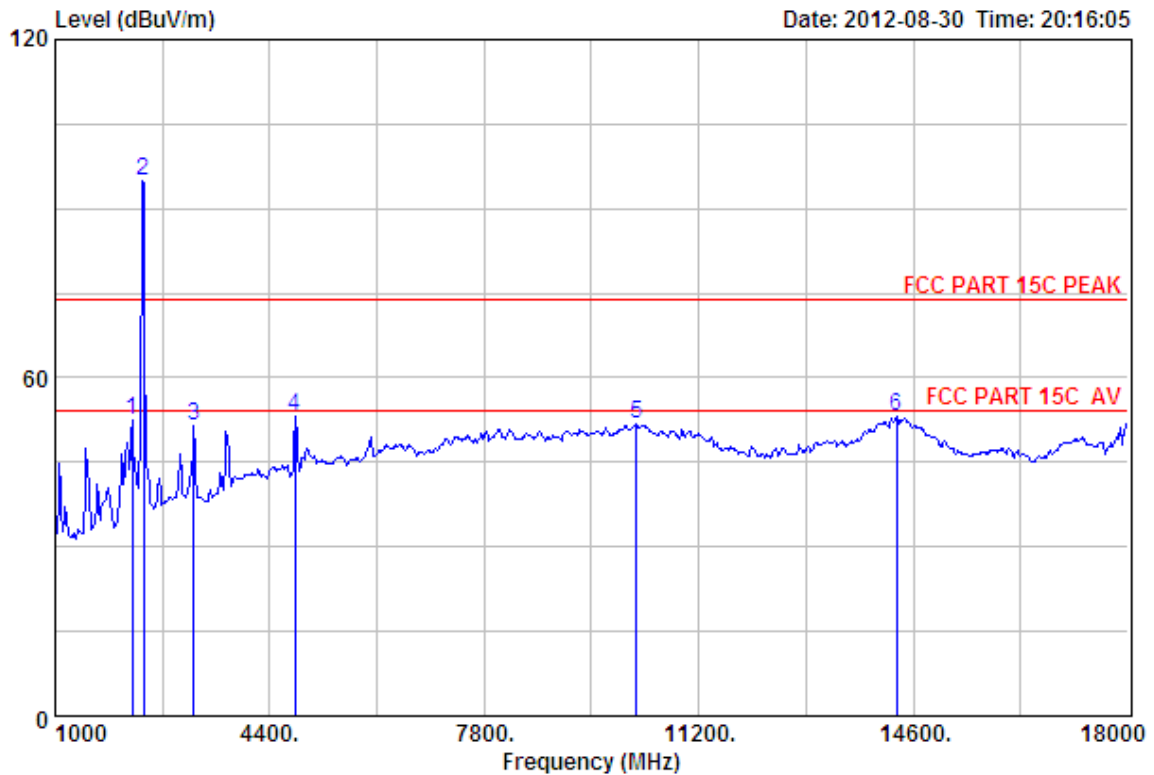
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 343 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:16:05



Site no. : 3m Chamber Data no. : 343
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : 8-DPSK TX 2402MHz

	Freq.	Ant.	Cable	Amp	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2224.00	27.81	6.43	34.30	52.58	52.52	74.00	21.48	Peak
2	2402.00	27.61	6.62	34.18	94.89	94.94	74.00	-20.94	Peak
3	3193.00	28.23	8.91	33.26	47.49	51.37	74.00	22.63	Peak
4	4804.00	31.25	11.77	31.81	41.97	53.18	74.00	20.82	Peak
5	10214.00	38.48	11.47	32.17	34.02	51.80	74.00	22.20	Peak
6	14328.00	41.74	10.92	32.98	33.50	53.18	74.00	20.82	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.

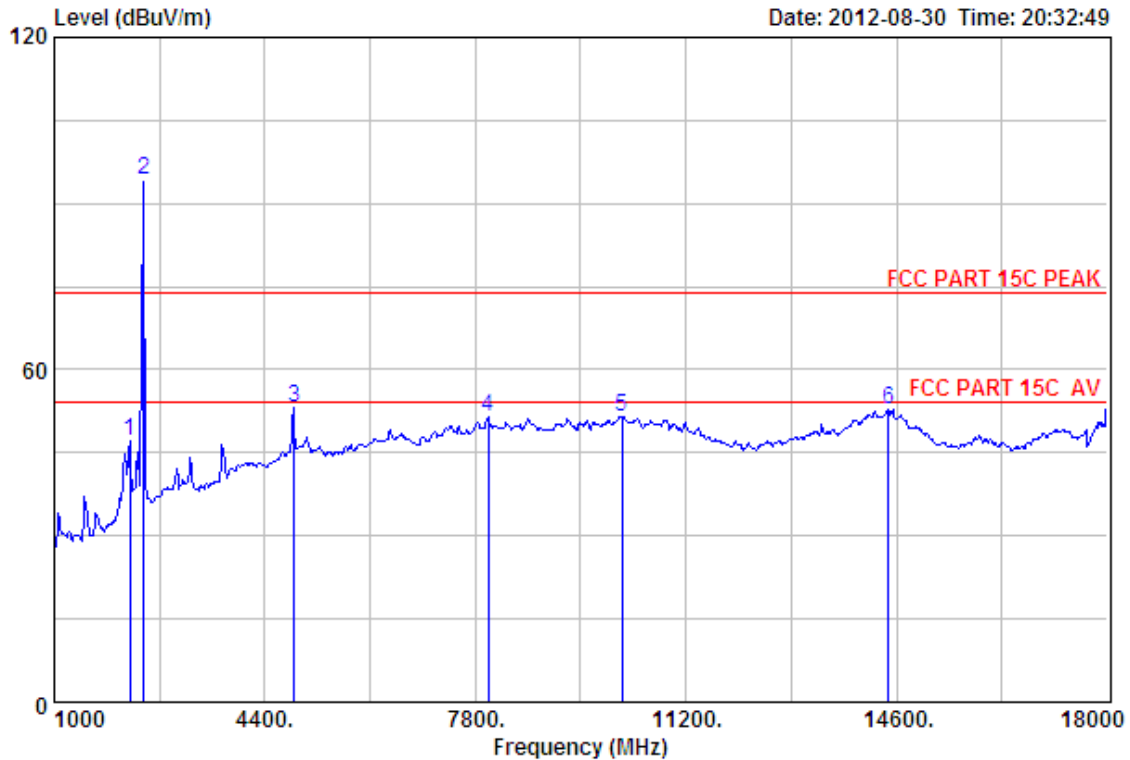
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Data: 346

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:32:49



Site no. : 3m Chamber Data no. : 346
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2224.00	27.81	6.43	34.30	47.10	47.04	74.00	26.96	Peak
2	2441.00	27.60	6.67	34.12	94.13	94.28	74.00	-20.28	Peak
3	4882.00	31.37	12.07	31.90	41.59	53.13	74.00	20.87	Peak
4	8004.00	37.01	11.40	31.22	34.26	51.45	74.00	22.55	Peak
5	10163.00	38.39	11.50	32.08	33.82	51.63	74.00	22.37	Peak
6	14464.00	41.85	10.93	32.96	33.01	52.83	74.00	21.17	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.

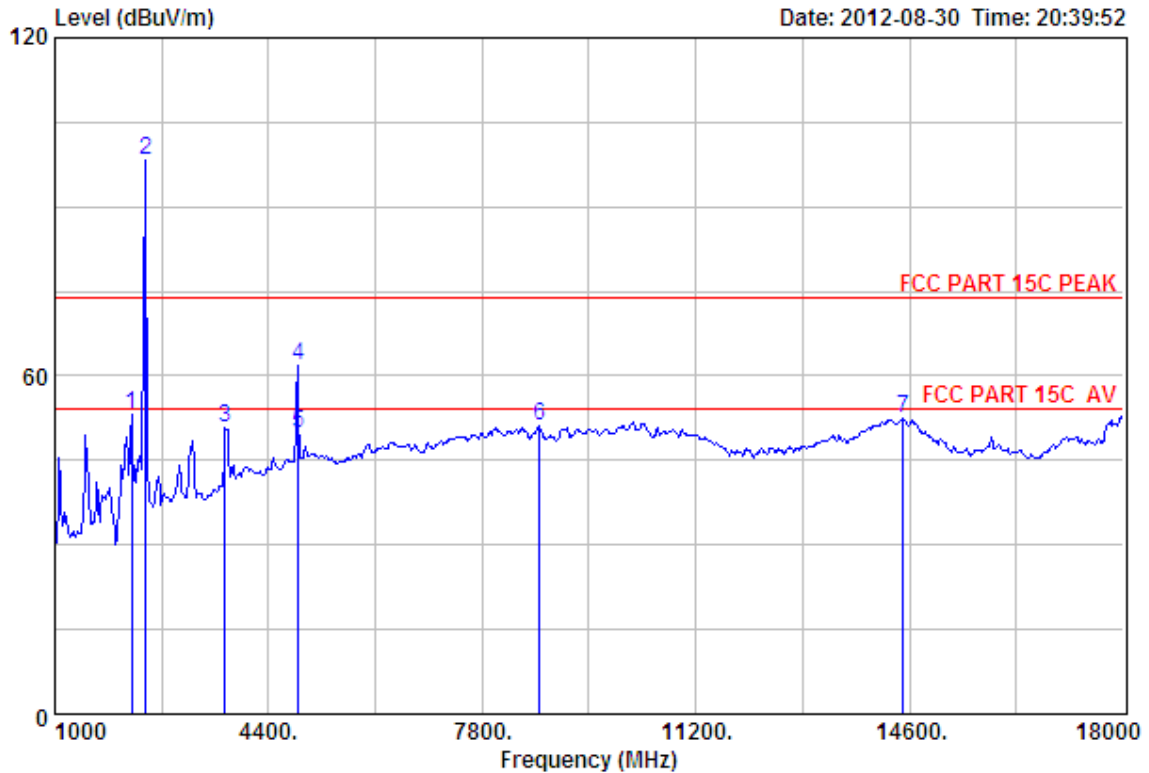
EST Technology

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Data: 347

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:39:52



Site no. : 3m Chamber Data no. : 347
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2224.00	27.81	6.43	34.30	53.05	52.99	74.00	21.01	Peak
2	2441.00	27.60	6.67	34.12	98.25	98.40	74.00	-24.40	Peak
3	3703.00	28.89	9.60	32.66	44.83	50.66	74.00	23.34	Peak
4	4882.00	31.37	12.07	31.90	50.44	61.98	74.00	12.02	Peak
5	4882.00	31.37	12.07	31.90	38.16	49.70	54.00	4.30	Average
6	8718.00	37.38	11.45	32.51	34.93	51.25	74.00	22.75	Peak
7	14498.00	41.88	10.93	33.08	32.69	52.42	74.00	21.58	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.

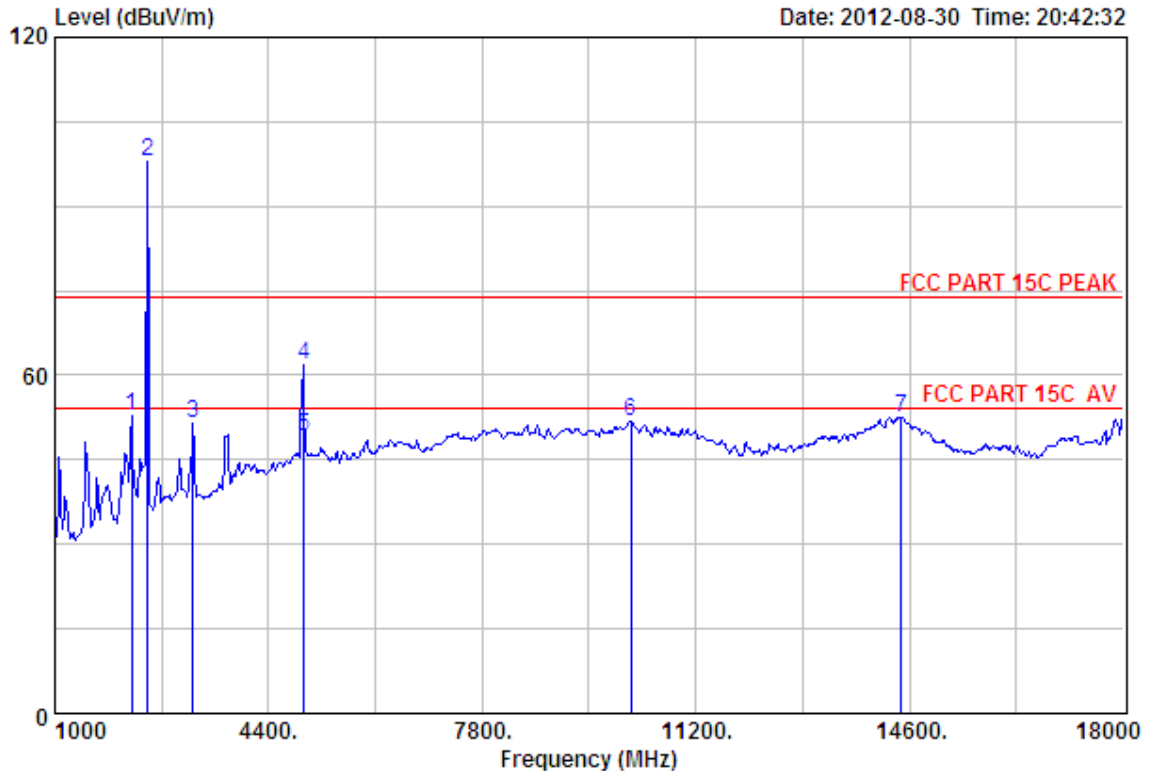
EST Technology

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Data: 348

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:42:32



Site no. : 3m Chamber Data no. : 348
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2224.00	27.81	6.43	34.30	52.76	52.70	74.00	21.30	Peak
2	2480.00	27.58	6.71	34.03	97.79	98.05	74.00	-24.05	Peak
3	3193.00	28.23	8.91	33.26	47.58	51.46	74.00	22.54	Peak
4	4960.00	31.49	12.44	31.97	50.03	61.99	74.00	12.01	Peak
5	4960.00	31.49	12.44	31.97	37.34	49.30	54.00	4.70	Average
6	10163.00	38.39	11.50	32.08	34.10	51.91	74.00	22.09	Peak
7	14464.00	41.85	10.93	32.96	32.73	52.55	74.00	21.45	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.

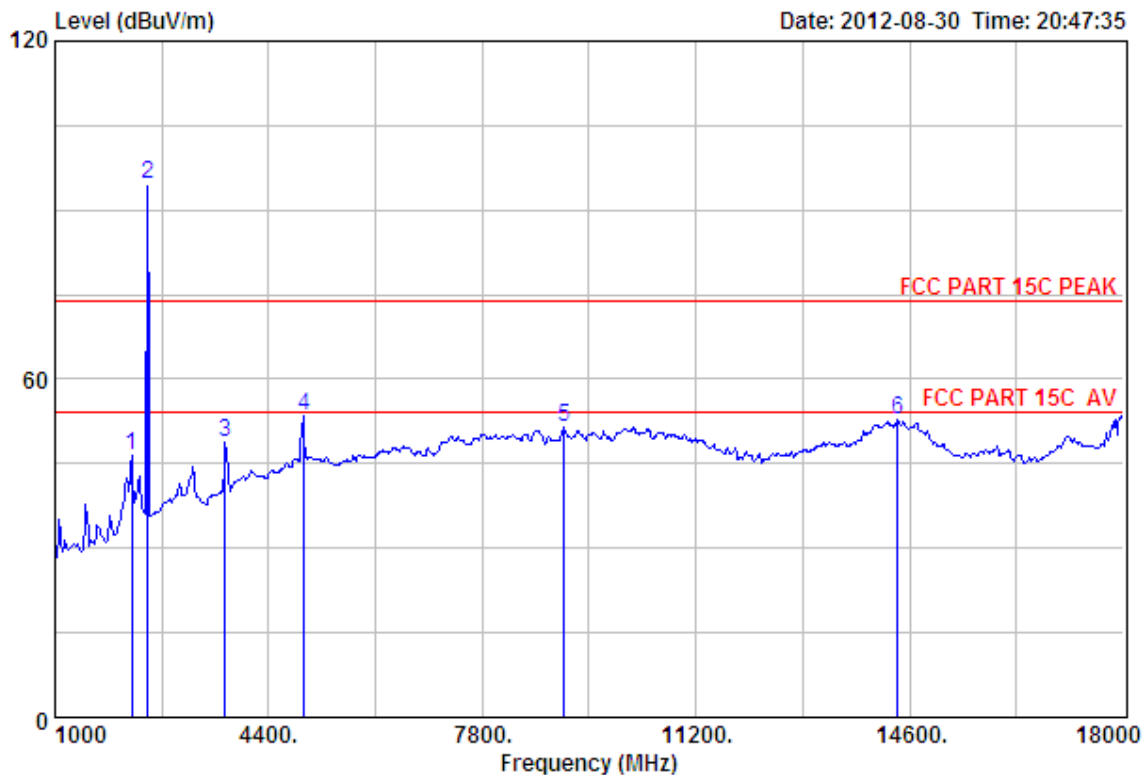
EST Technology

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Data: 349

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:47:35



Site no. : 3m Chamber Data no. : 349
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2224.00	27.81	6.43	34.30	46.49	46.43	74.00	27.57	Peak
2	2480.00	27.58	6.71	34.03	94.40	94.66	74.00	-20.66	Peak
3	3703.00	28.89	9.60	32.66	43.06	48.89	74.00	25.11	Peak
4	4960.00	31.49	12.44	31.97	41.48	53.44	74.00	20.56	Peak
5	9109.00	37.59	11.51	32.42	34.76	51.44	74.00	22.56	Peak
6	14413.00	41.80	10.92	32.78	32.77	52.71	74.00	21.29	Peak

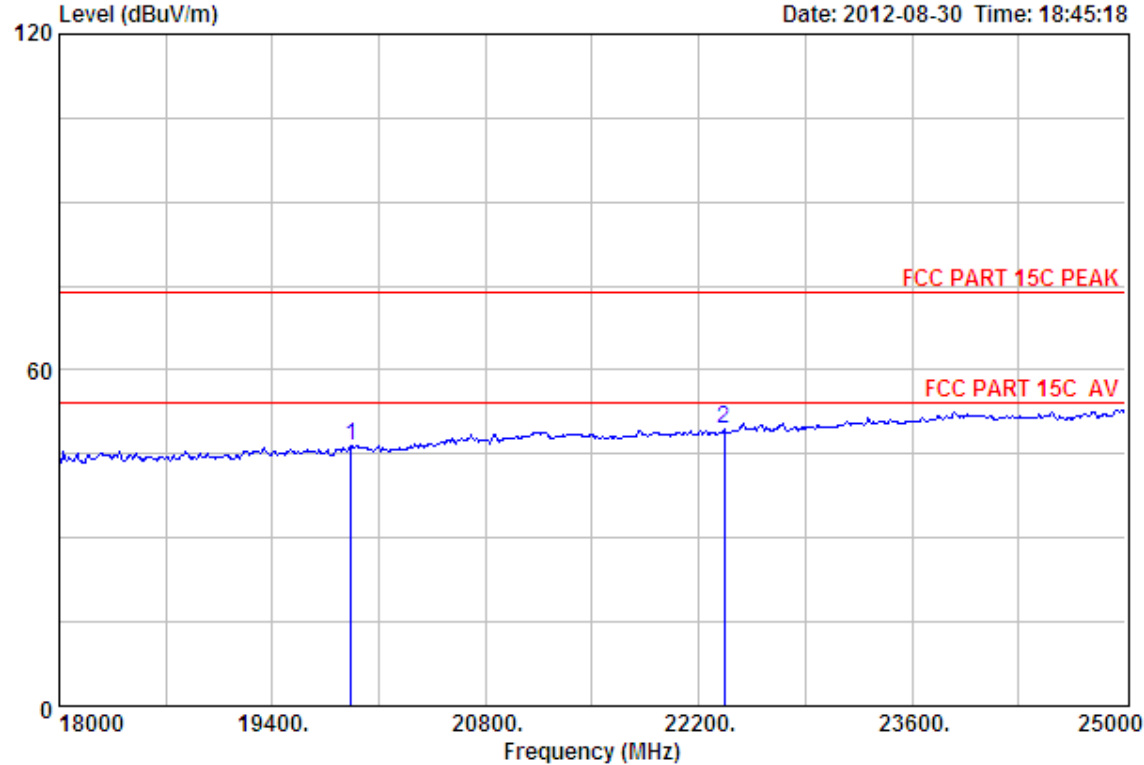
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

18000MHz – 250000MHz

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Data: 320 File: D:\test data\2012\H\Homni.EMI (403) Date: 2012-08-30 Time: 18:45:18



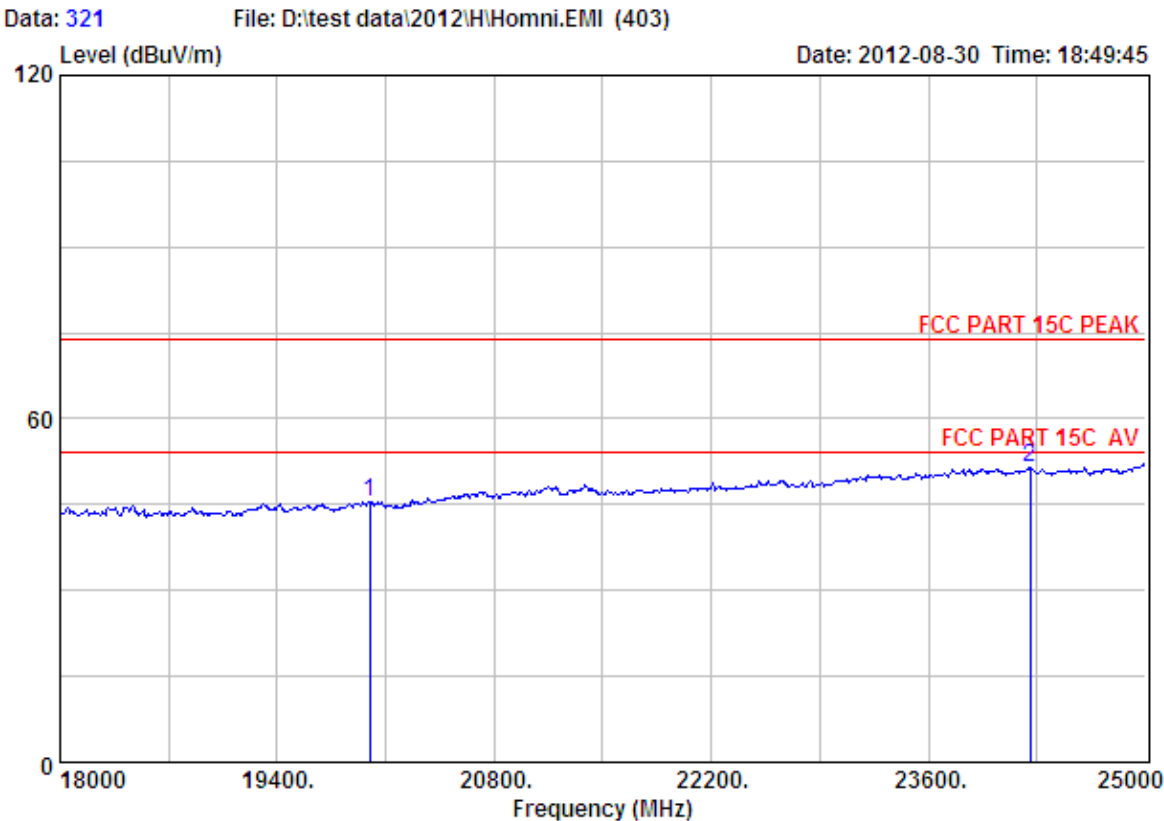
Site no. : 3m Chamber Data no. : 320
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant.	Cable	Amp	Emission				Remark
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	19918.00	46.07	19.59	36.64	17.59	46.61	74.00	27.39	Peak
2	22368.00	45.77	20.78	34.51	17.28	49.32	74.00	24.68	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.

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Site no. : 3m Chamber Data no. : 321
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant.	Cable	Amp	Emission				Remark
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	
1	19995.00	46.10	19.68	36.70	16.54	45.62	74.00	28.38	Peak
2	24258.00	45.65	22.19	33.19	16.97	51.62	74.00	22.38	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.

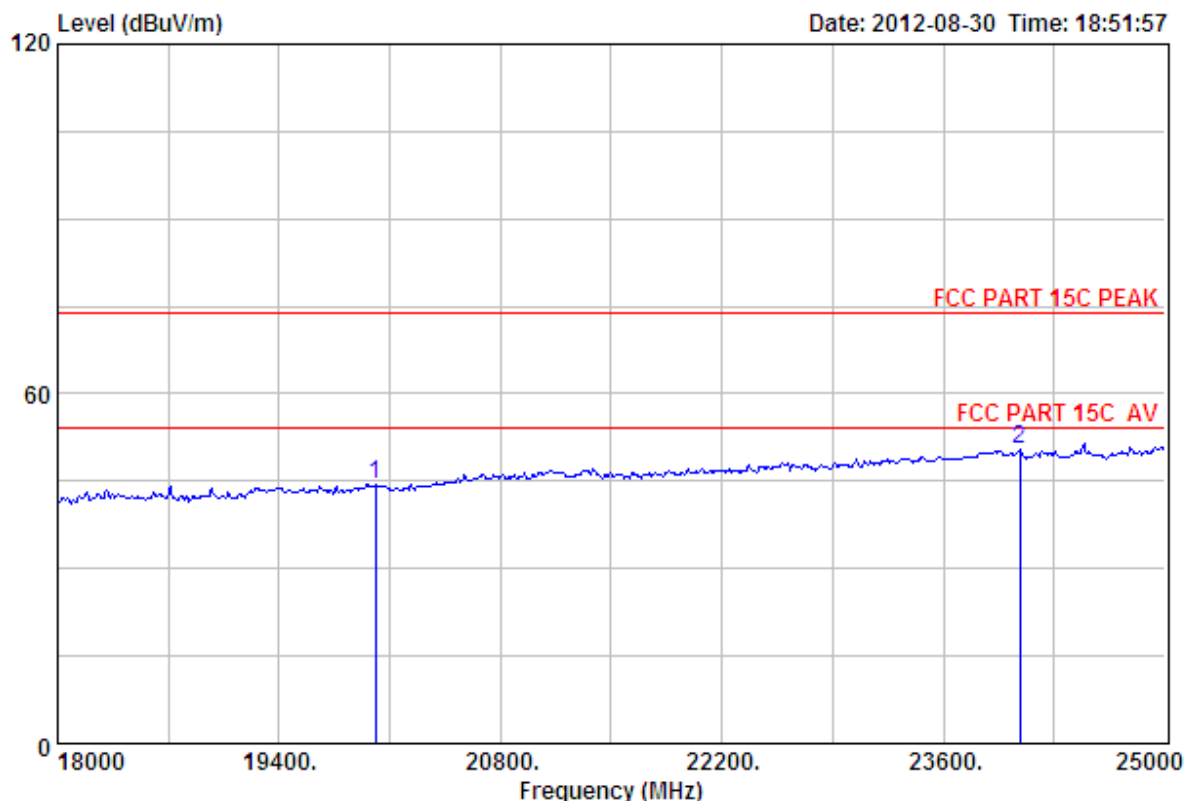
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Data: 322

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:51:57



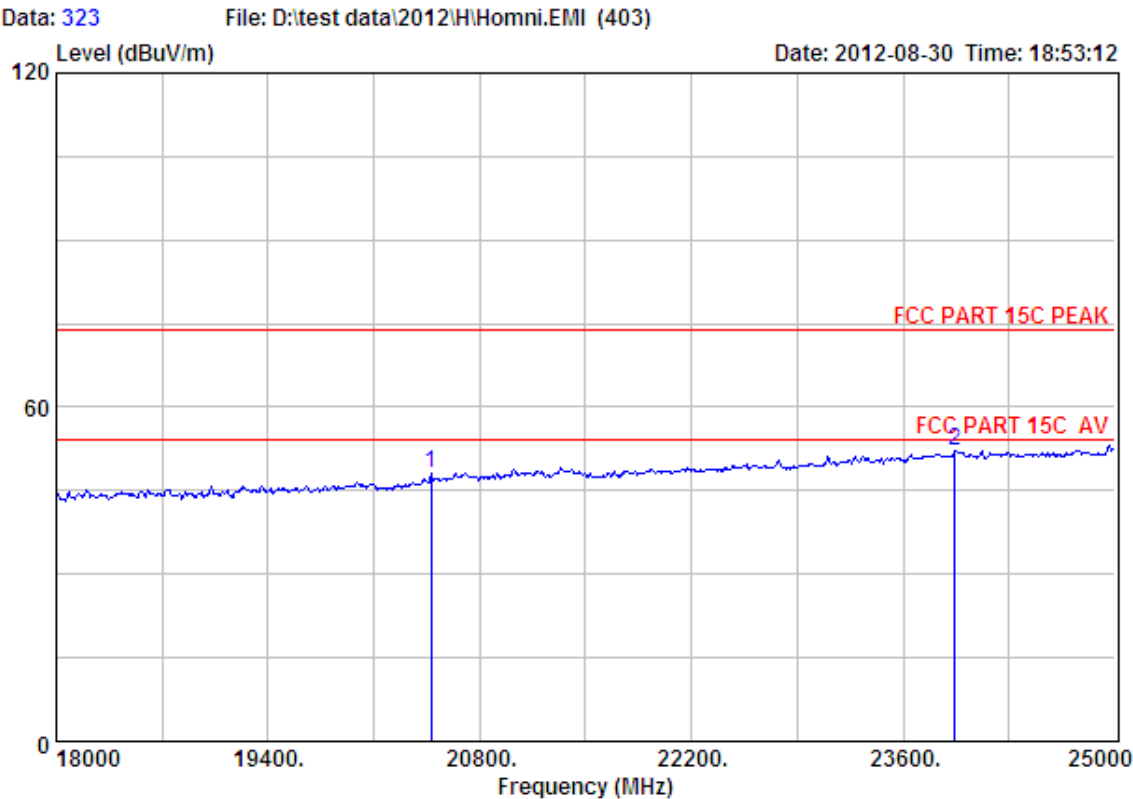
Site no. : 3m Chamber Data no. : 322
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBUV/m)	Margin (dB)	Remark
				Reading (dBUV)	Level (dBUV/m)			
1 20009.00	46.10	19.68	36.70	15.34	44.42	74.00	29.58	Peak
2 24083.00	45.61	22.09	32.92	15.65	50.43	74.00	23.57	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.

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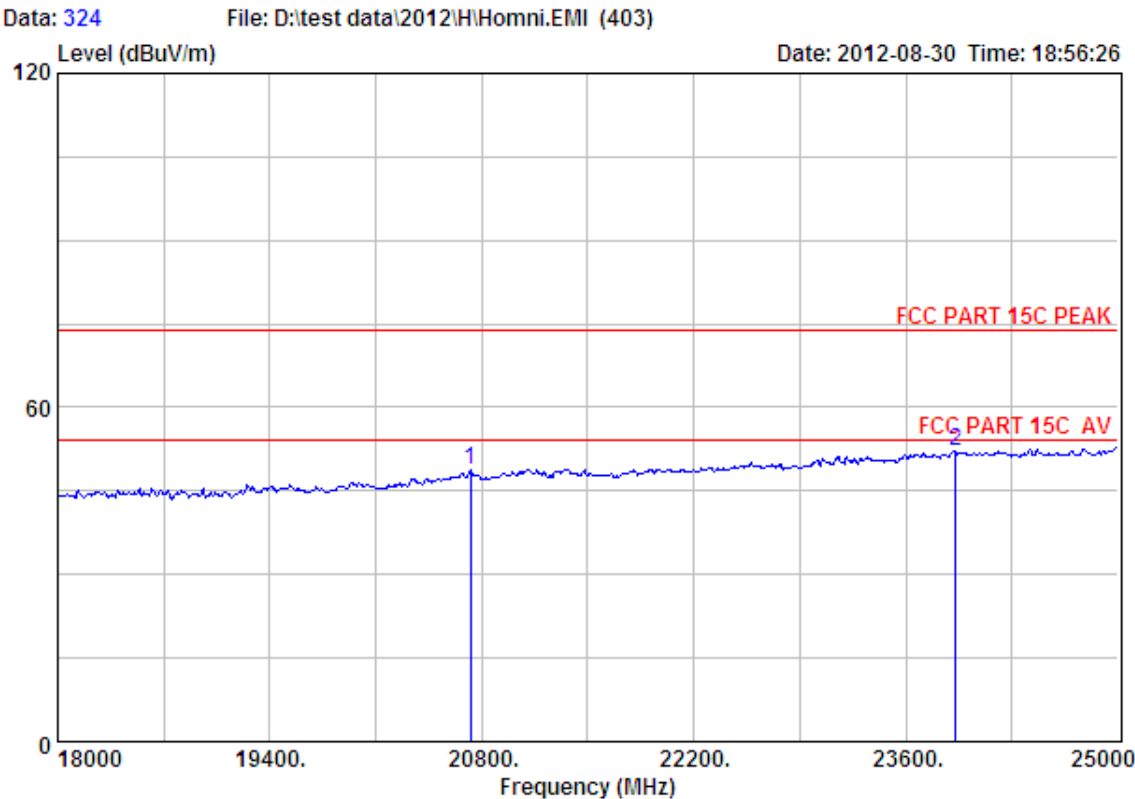
Site no. : 3m Chamber Data no. : 323
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBUV/m)	Margin (dB)	Remark
				Reading (dBUV)	Level (dBUV/m)			
1 20478.00	46.00	19.89	36.27	18.36	47.98	74.00	26.02	Peak
2 23943.00	45.61	21.99	32.85	17.47	52.22	74.00	21.78	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.

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Site no. : 3m Chamber Data no. : 324
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission		Limits (dBUV/m)	Margin (dB)	Remark
					Level				
1	20723.00	46.14	20.01	36.05	18.54	48.64	74.00	25.36	Peak
2	23929.00	45.61	21.99	32.88	17.56	52.28	74.00	21.72	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.

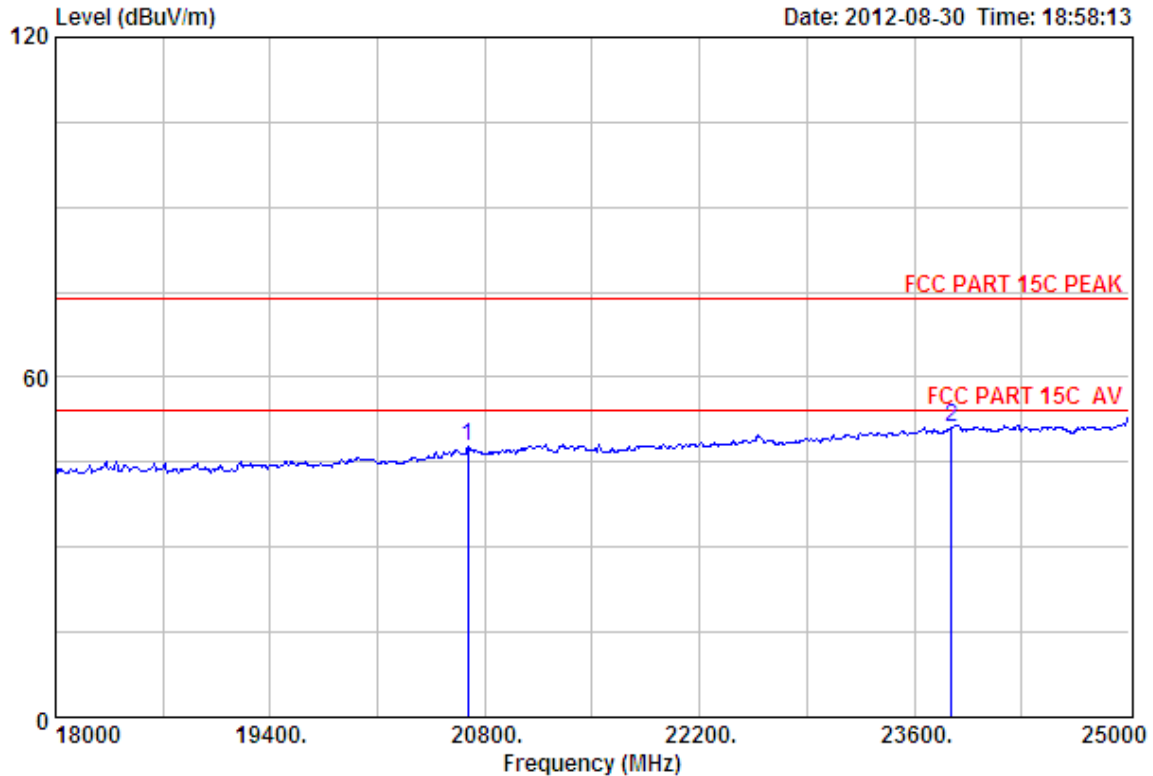
EST Technology

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Data: 325

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:58:13



Site no. : 3m Chamber Data no. : 325
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading	Level			
1 20688.00	46.11	19.99	36.07	17.69	47.72	74.00	26.28	Peak
2 23845.00	45.63	21.90	32.96	16.49	51.06	74.00	22.94	Peak

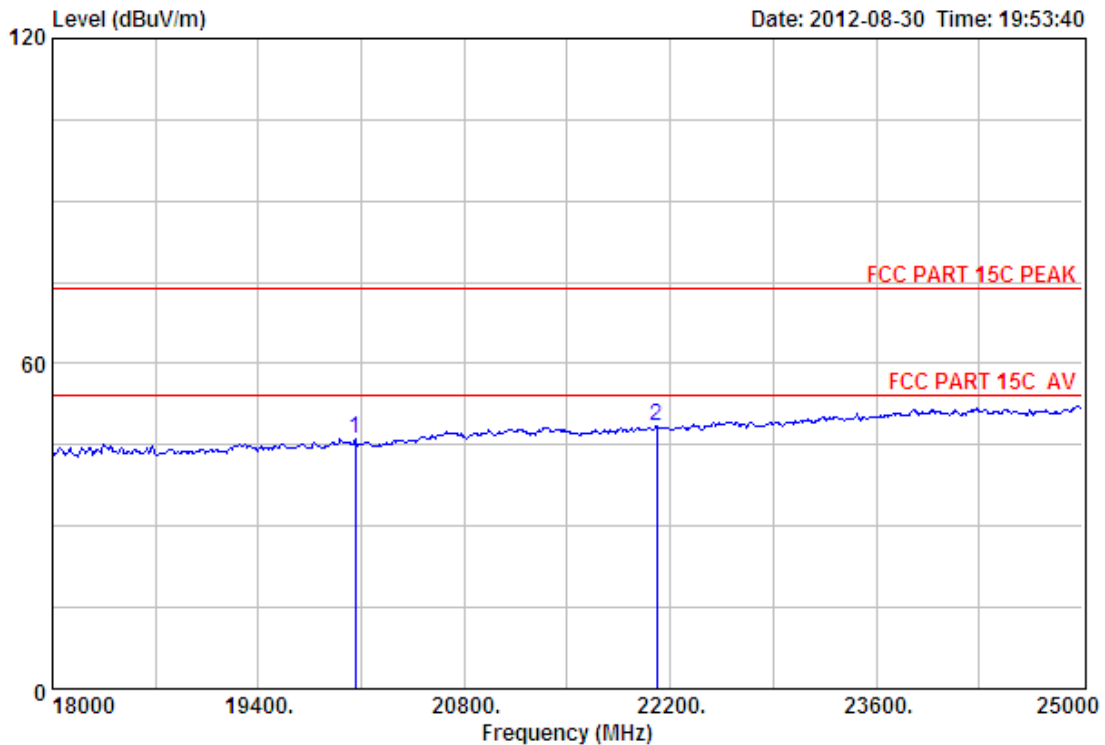
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 336 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:53:40



Site no. : 3m Chamber Data no. : 336
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBUV/m)	Margin (dB)	Remark
					Reading (dBUV)	Level (dBUV/m)			
1	20058.00	46.09	19.71	36.66	16.90	46.04	74.00	27.96	Peak
2	22109.00	45.72	20.63	34.80	17.04	48.59	74.00	25.41	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.

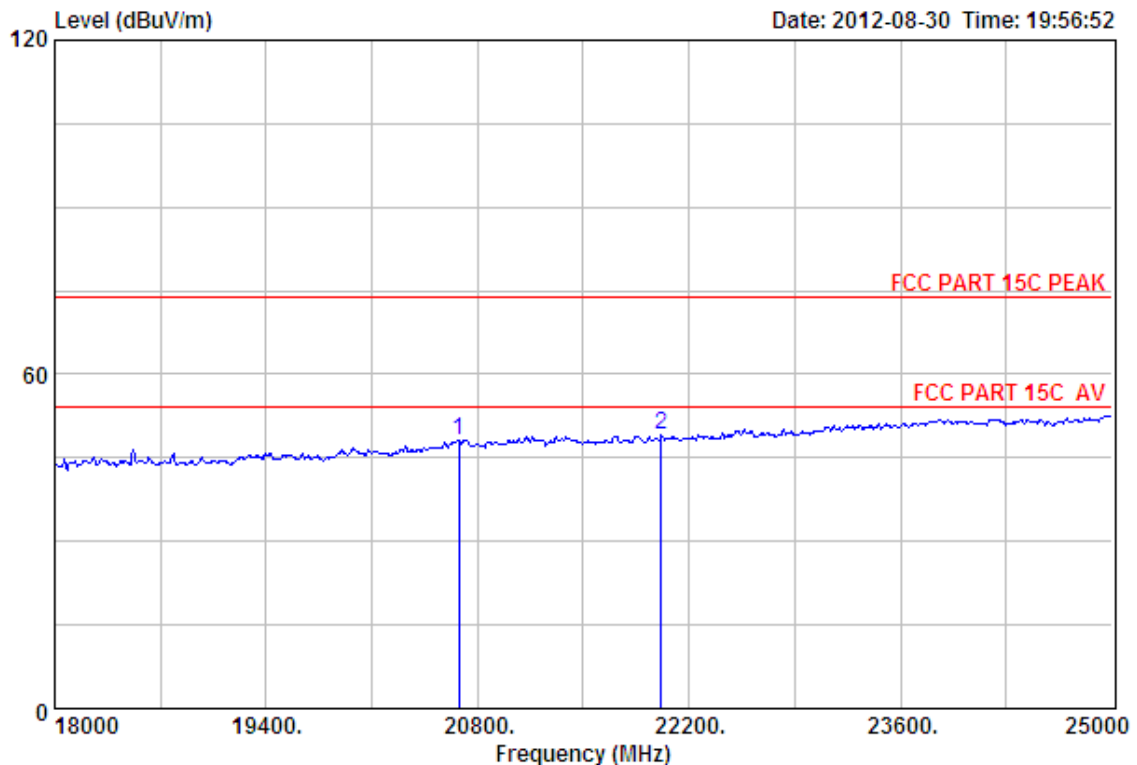
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Data: 337

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:56:52



Site no. : 3m Chamber Data no. : 337
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : n/4-DQPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 20674.00	46.11	19.98	36.09	18.17	48.17	74.00	25.83	Peak
2 22018.00	45.70	20.57	34.87	17.77	49.17	74.00	24.83	Peak

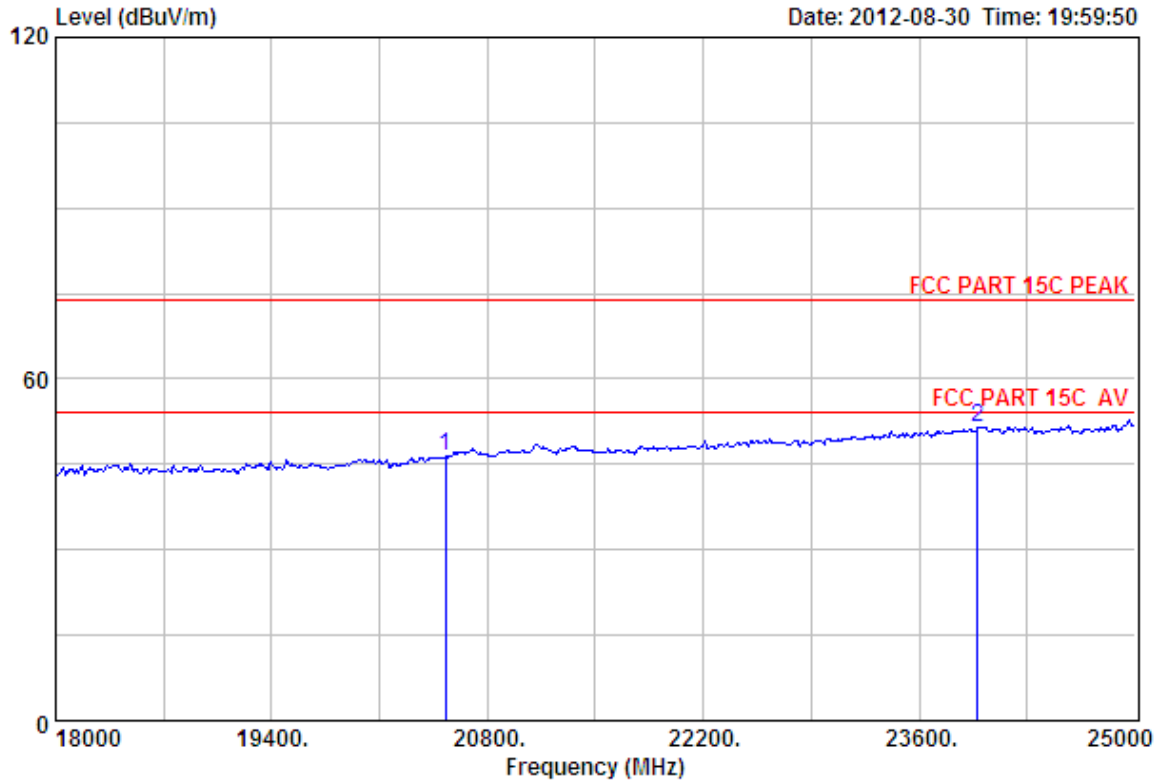
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

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Data: 338 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:59:50



Site no. : 3m Chamber Data no. : 338
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : n/4-DQPSK TX 2441MHz

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1 20527.00	46.01	19.92	36.23	16.60	46.30	74.00	27.70	Peak	
2 23978.00	45.60	22.03	32.83	16.76	51.56	74.00	22.44	Peak	

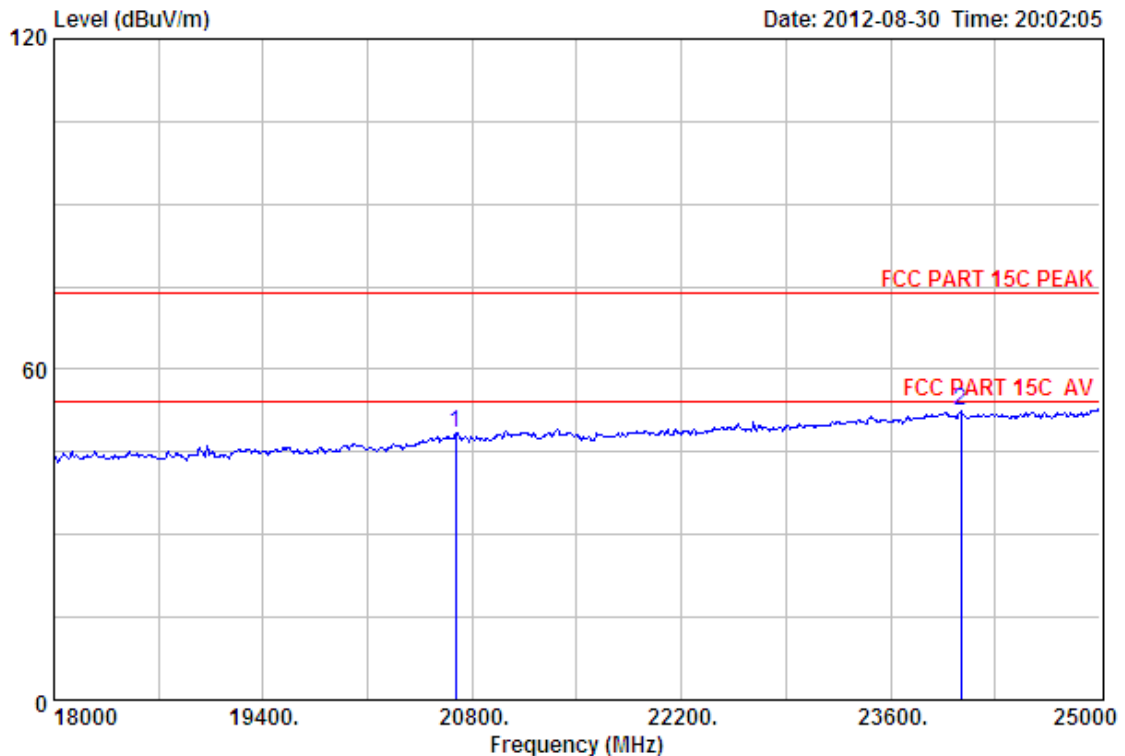
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

EST Technology

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Data: 339 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:02:05



Site no. : 3m Chamber Data no. : 339
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : n/4-DQPSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading	Level	Limits	Margin	
					(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	20688.00	46.11	19.99	36.07	18.51	48.54	74.00	25.46	Peak
2	24069.00	45.61	22.08	32.92	17.86	52.63	74.00	21.37	Peak

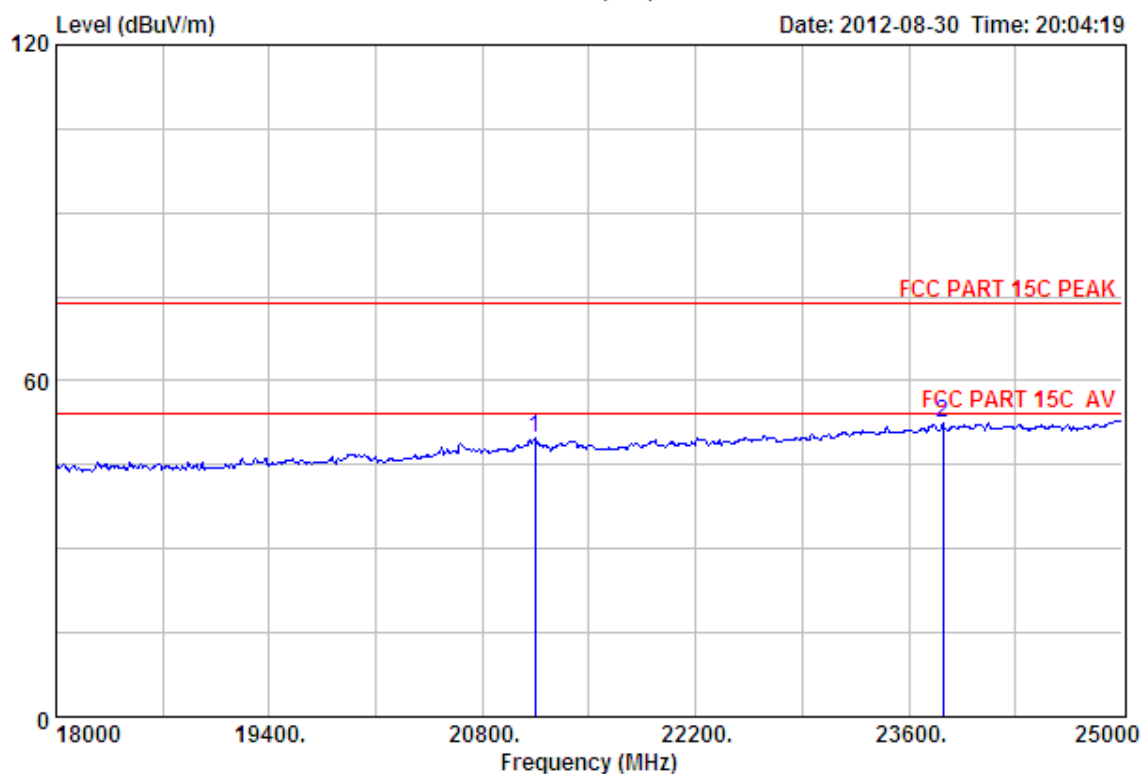
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 340 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:04:19



Site no. : 3m Chamber Data no. : 340
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : n/4-DQPSK TX 2480MHz

	Freq.	Ant.	Cable	Amp	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	21143.00	46.21	20.19	35.67	19.18	49.91	74.00	24.09	Peak
2	23824.00	45.63	21.89	32.98	17.86	52.40	74.00	21.60	Peak

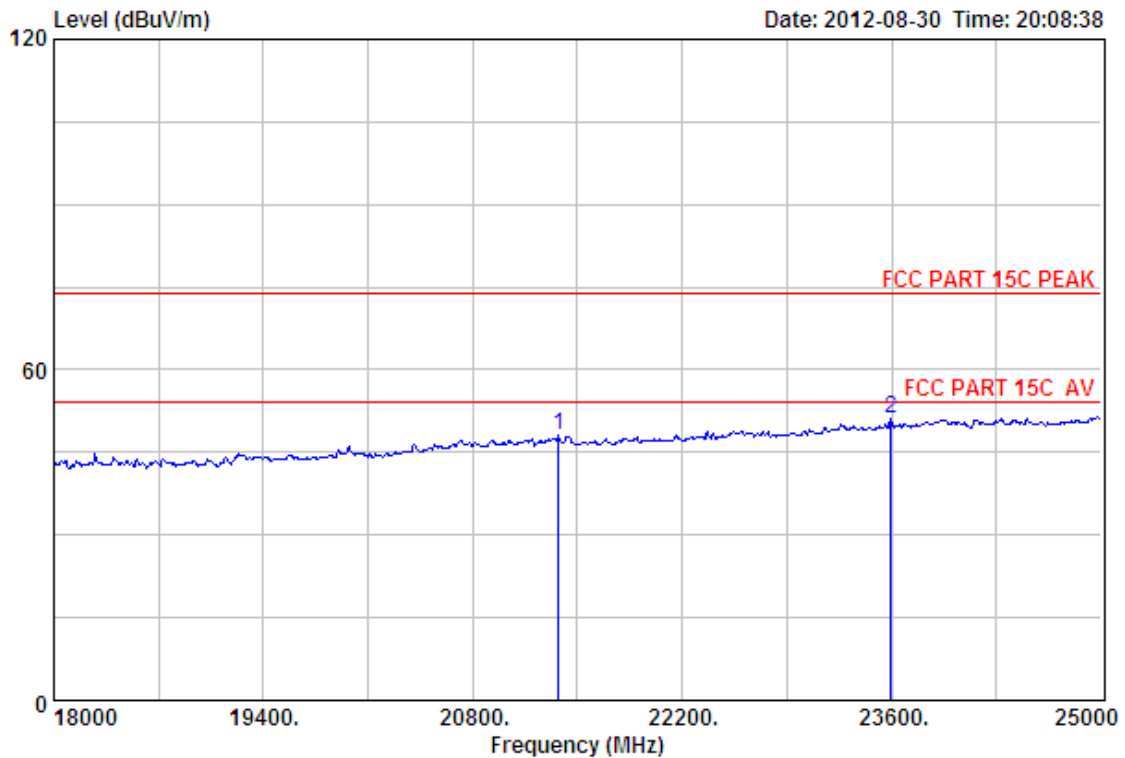
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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Data: 341 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:08:38



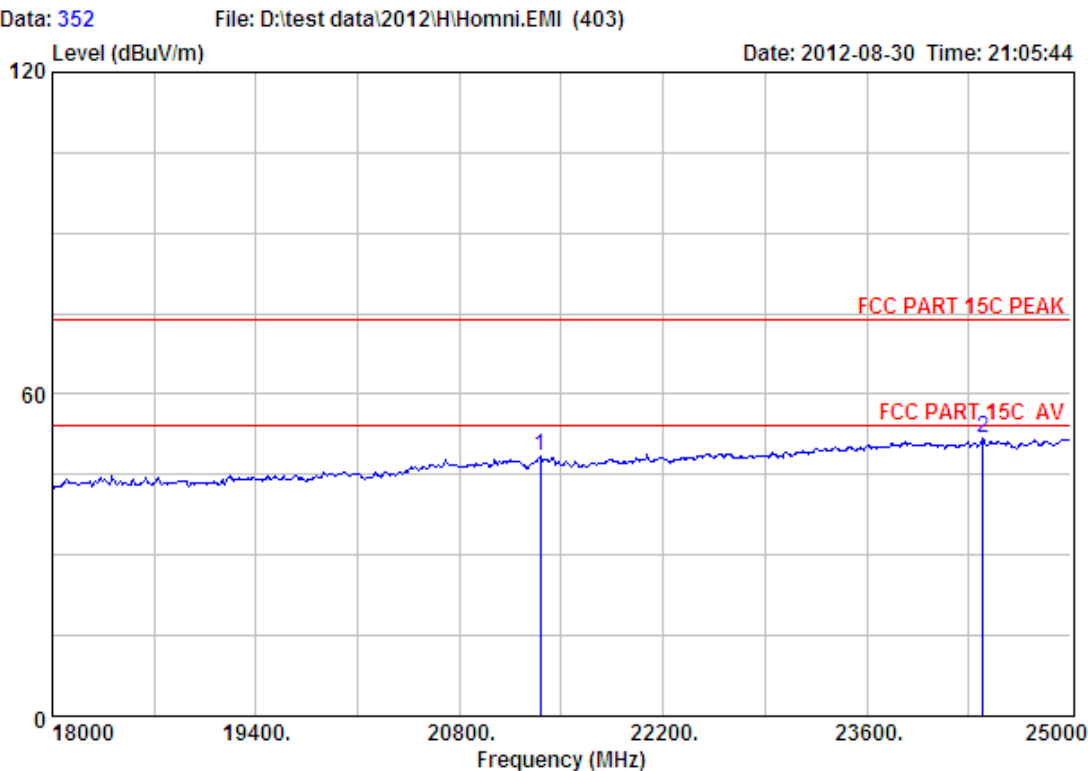
Site no. : 3m Chamber Data no. : 341
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : π/4-DQPSK TX 2480MHz

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	21374.00	46.08	20.29	35.46	17.24	48.15	74.00	25.85	Peak
2	23593.00	45.68	21.68	33.22	16.96	51.10	74.00	22.90	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.

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Site no. : 3m Chamber Data no. : 352
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission				Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 21353.00	46.09	20.28	35.49	17.71	48.59	74.00	25.41		Peak
2 24398.00	45.68	22.26	33.42	17.29	51.81	74.00	22.19		Peak

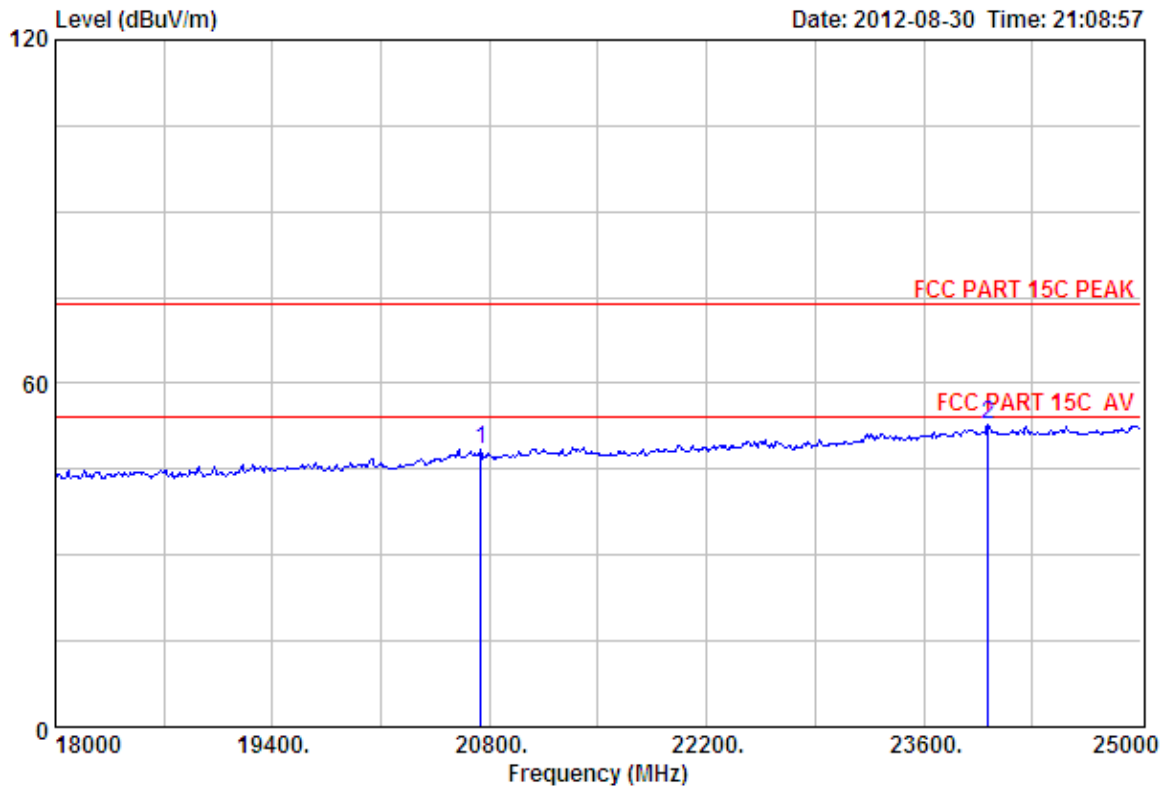
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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Data: 353 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 21:08:57



Site no. : 3m Chamber Data no. : 353
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant.	Cable	Amp	Emission			Margin (dB)	Remark
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limits (dBUV/m)		
1	20744.00	46.15	20.02	36.03	18.36	48.50	74.00	25.50	Peak
2	24013.00	45.60	22.05	32.84	17.86	52.67	74.00	21.33	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.

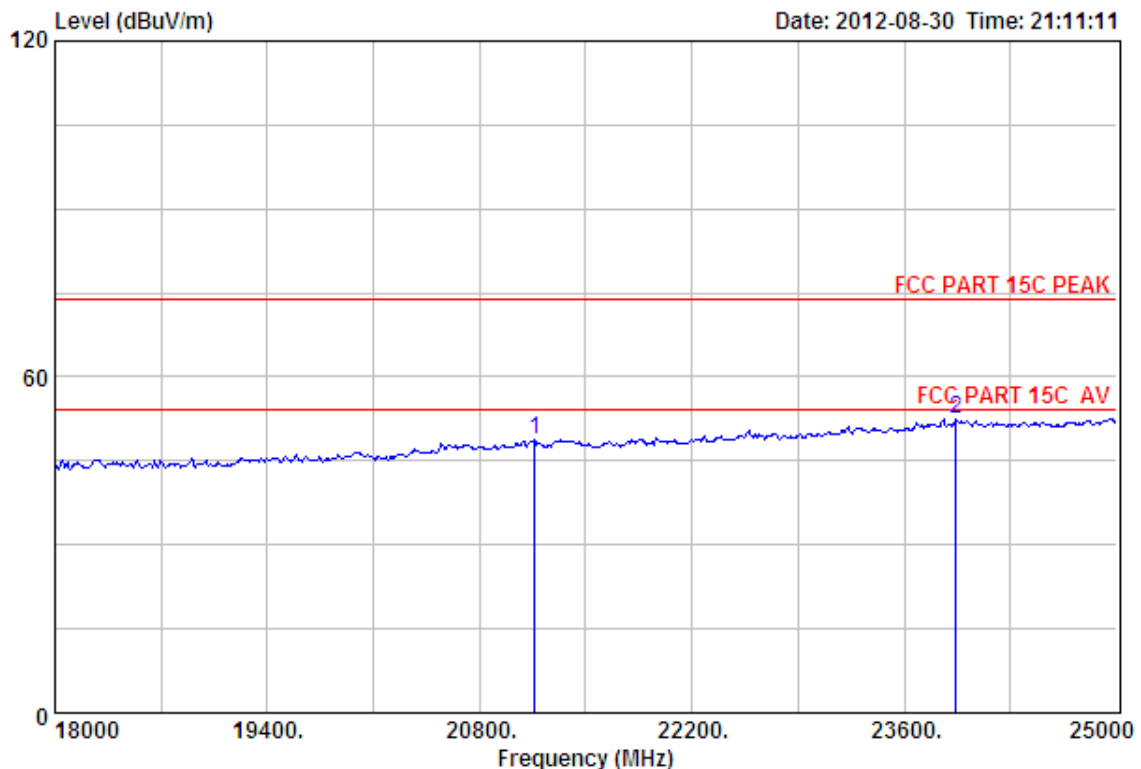
EST Technology

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Data: 354

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 21:11:11



Site no. : 3m Chamber Data no. : 354
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	21164.00	46.20	20.20	35.64	18.00	48.76	74.00	25.24	Peak
2	23943.00	45.61	21.99	32.85	17.71	52.46	74.00	21.54	Peak

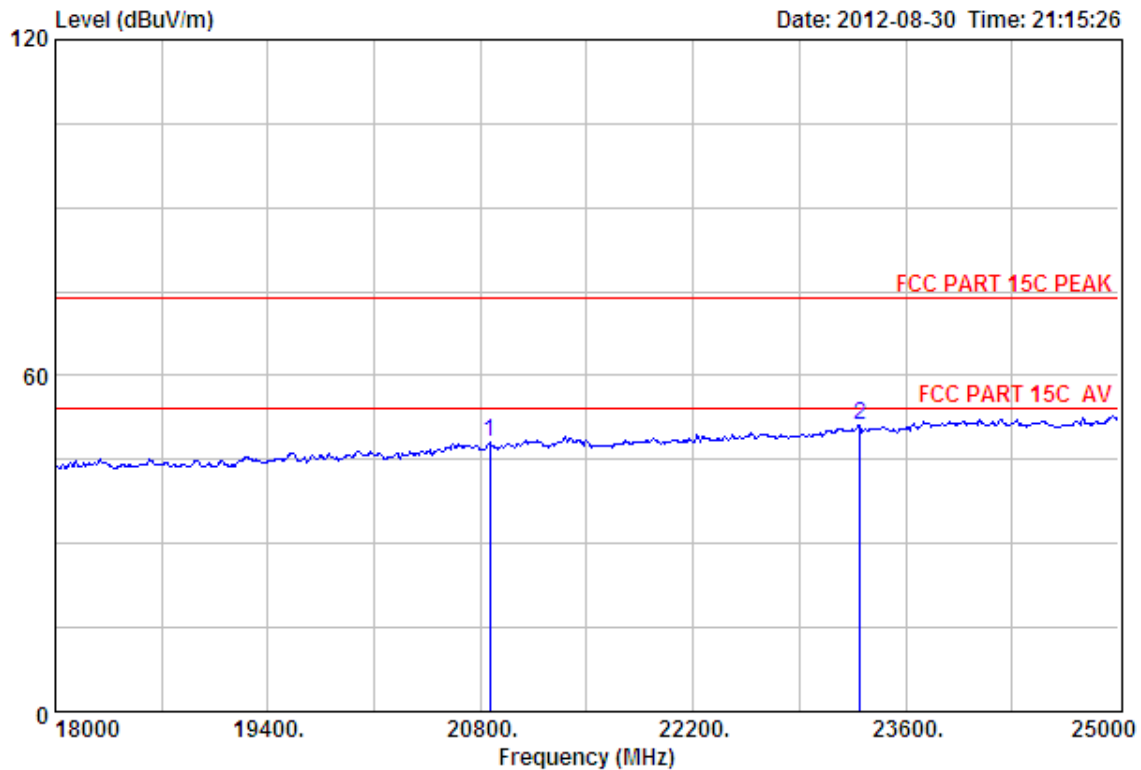
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 355 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 21:15:26



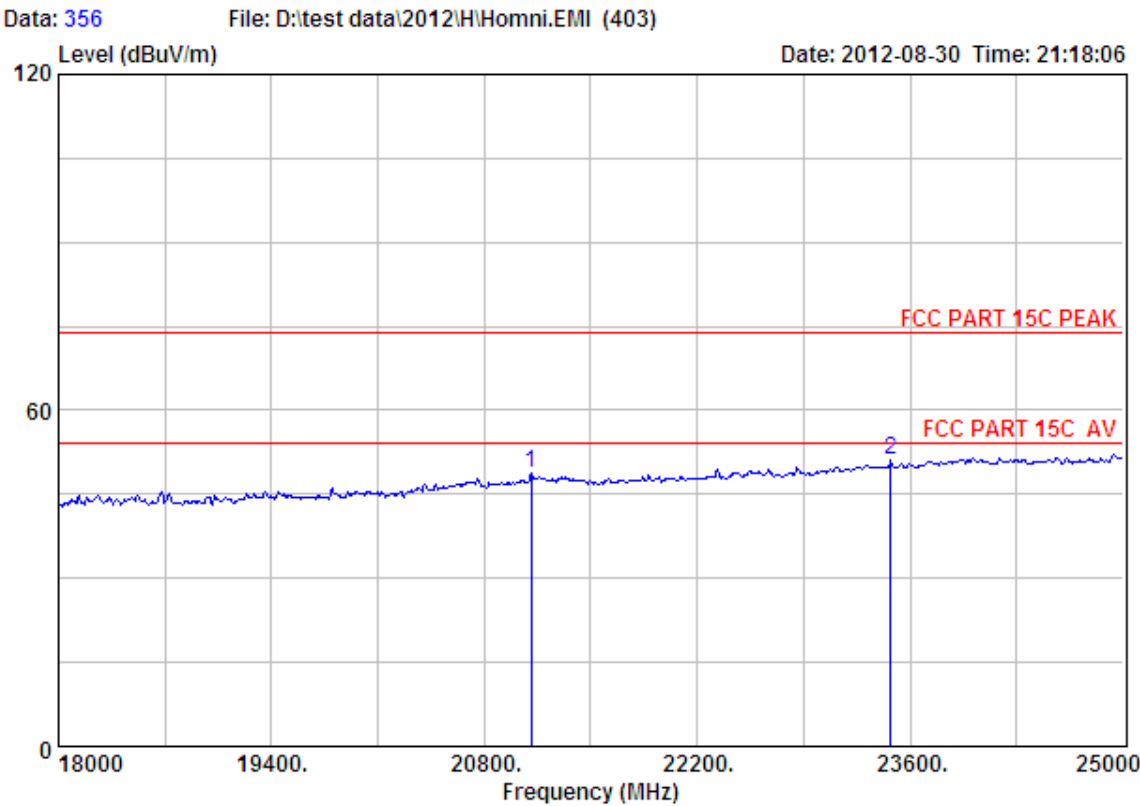
Site no. : 3m Chamber Data no. : 355
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : 8-DPSK TX 2441MHz

	Freq.	Ant.	Cable	Amp	Emission				
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	20863.00	46.22	20.07	35.91	17.67	48.05	74.00	25.95	Peak
2	23299.00	45.66	21.42	33.53	17.73	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.

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Site no. : 3m Chamber Data no. : 356
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : 8-DPSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission		Limits (dBUV/m)	Margin (dB)	Remark
					Level				
1	21108.00	46.23	20.18	35.71	18.00	48.70	74.00	25.30	Peak
2	23474.00	45.70	21.57	33.35	17.12	51.04	74.00	22.96	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.

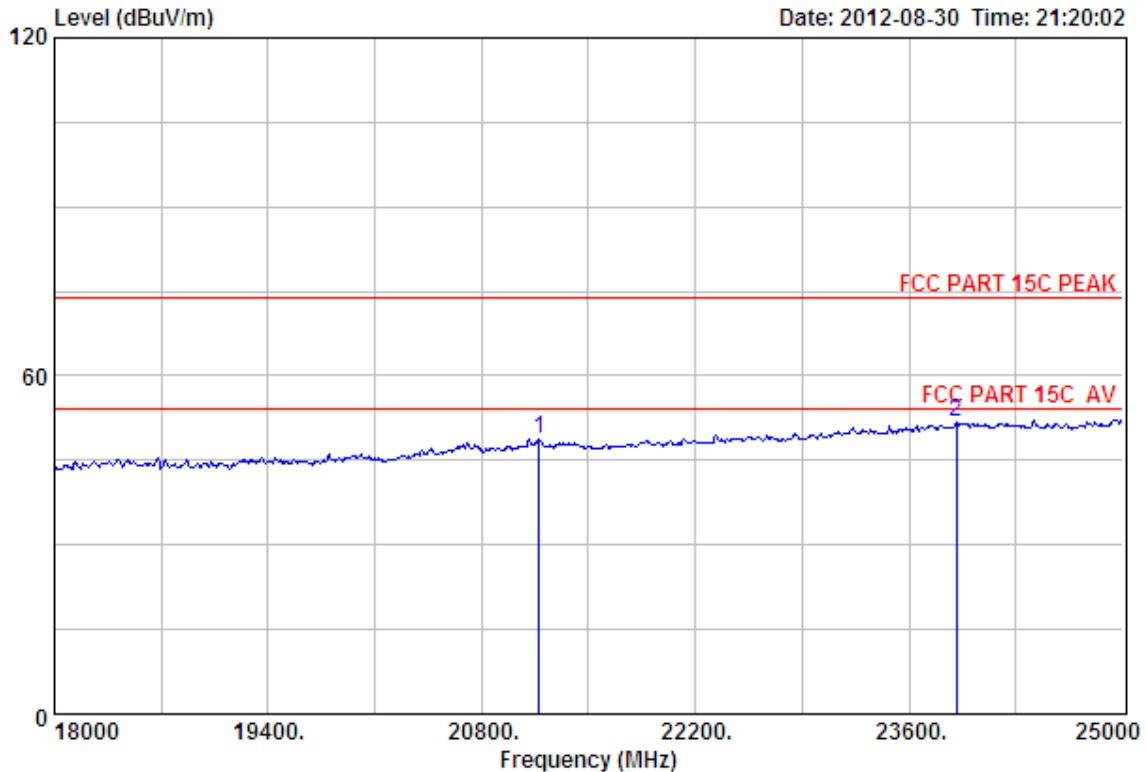
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Data: 357

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 21:20:02



Site no. : 3m Chamber Data no. : 357
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : 8-DPSK TX 2480MHz

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	21178.00	46.20	20.21	35.64	17.97	48.74	74.00	25.26	Peak
2	23908.00	45.62	21.96	32.90	17.00	51.68	74.00	22.32	Peak

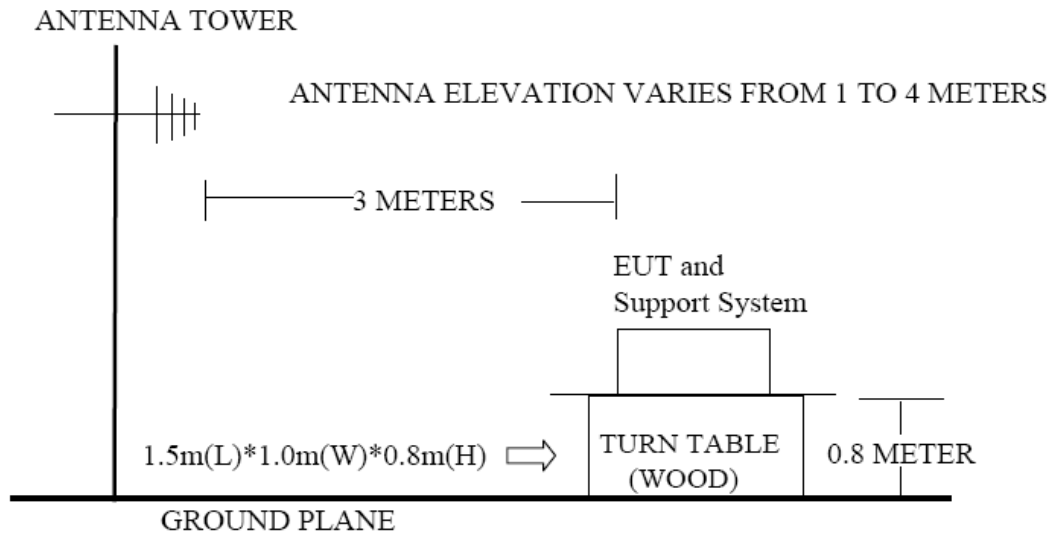
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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

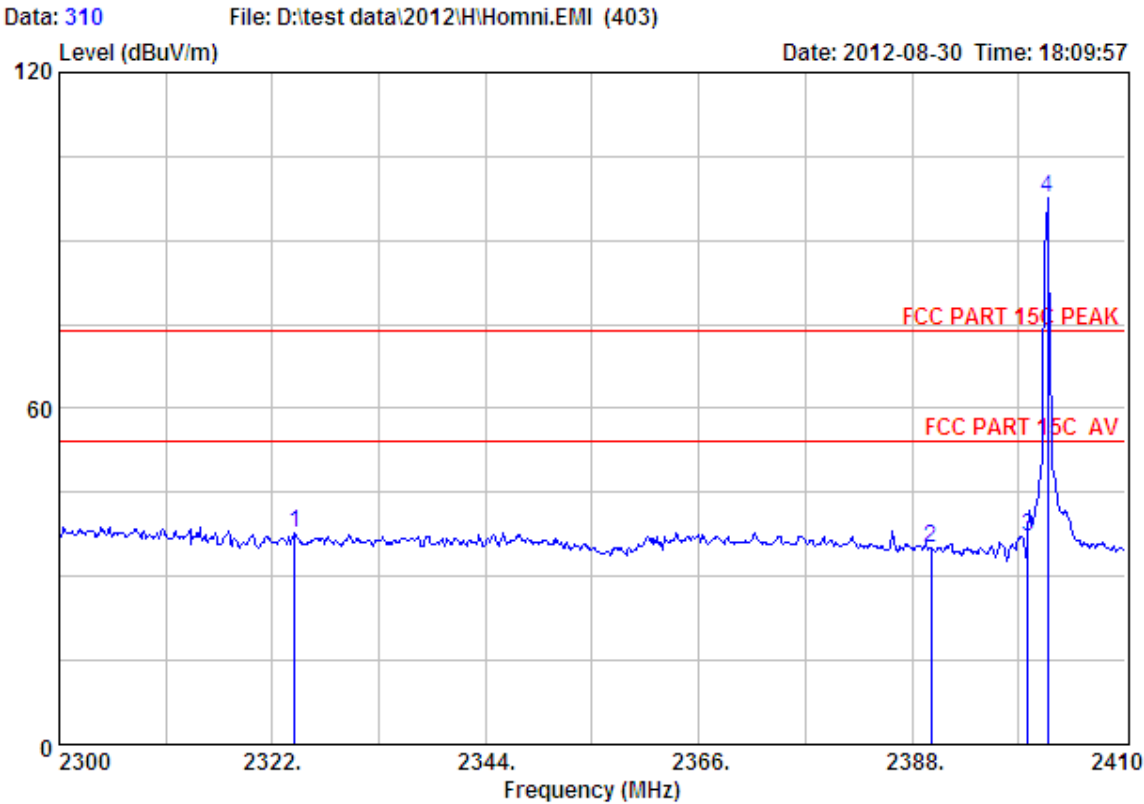
EUT: BT Wireless Speaker	M/N:Transavtive Air
Power: AC 120V/60Hz	
Test date: 2012-08-30	Test site: 3m Chamber Tested by: Tony Tang
Test mode: Tx Mode	
Pass	

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

9.5. Test Data

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Site no. : 3m Chamber Data no. : 310
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant.	Cable	Amp	Emission				Remark
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2324.31	27.73	6.54	34.23	37.63	37.67	74.00	36.33	Peak
2	2390.00	27.64	6.62	34.19	34.90	34.97	74.00	39.03	Peak
3	2400.00	27.61	6.62	34.18	37.04	37.09	74.00	36.91	Peak
4	2401.97	27.61	6.62	34.18	97.67	97.72	74.00	-23.72	Peak

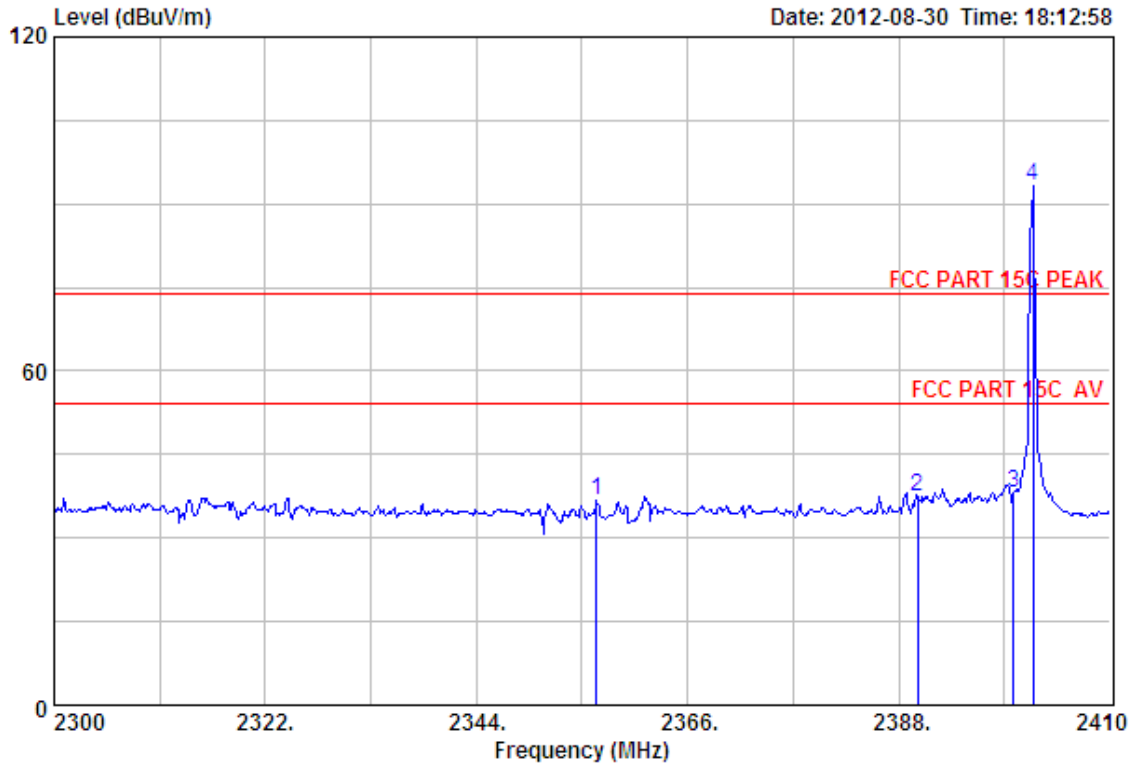
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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Data: 311 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:12:58



Site no. : 3m Chamber Data no. : 311
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2402MHz

	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2356.54	27.70	6.58	34.22	36.80	36.86	74.00	37.14	Peak
2	2390.00	27.64	6.62	34.19	37.41	37.48	74.00	36.52	Peak
3	2400.00	27.61	6.62	34.18	38.12	38.17	74.00	35.83	Peak
4	2401.97	27.61	6.62	34.18	93.22	93.27	74.00	-19.27	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.

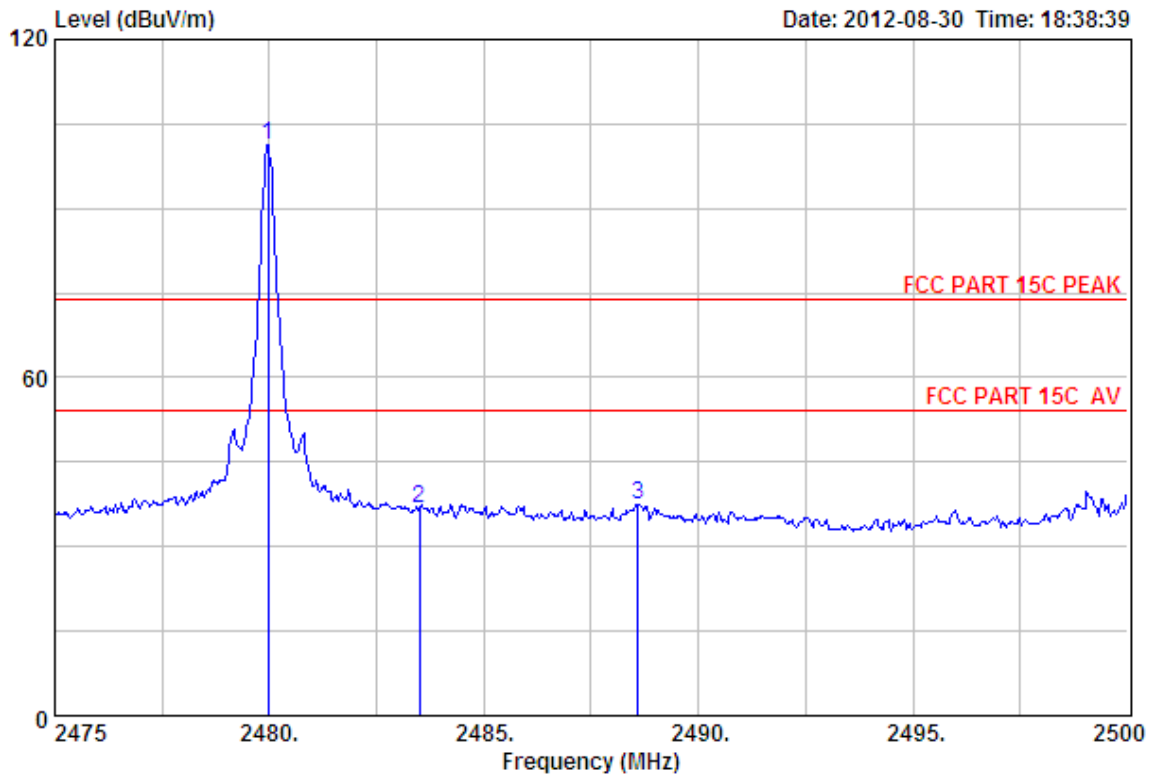
EST Technology

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Data: 318

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 18:38:39



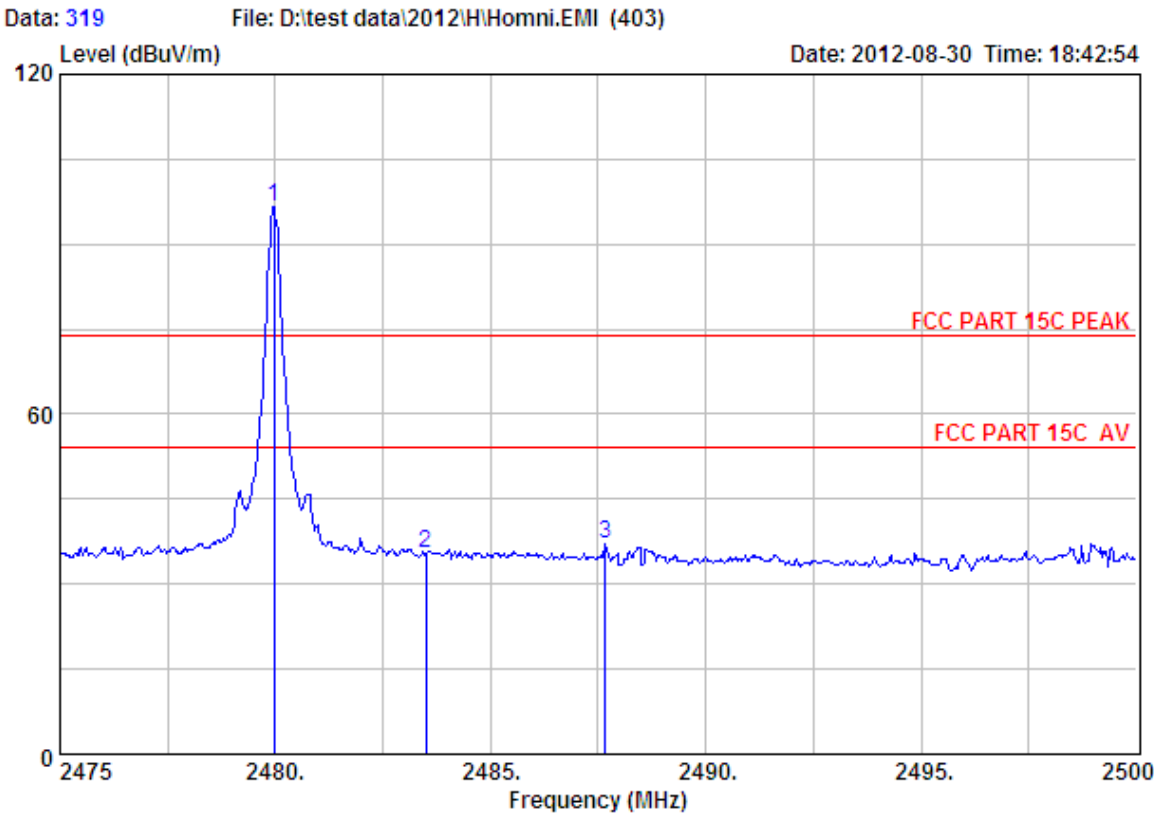
Site no. : 3m Chamber Data no. : 318
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : GFSK TX 2480MHz

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1	2479.98	27.58	6.71	34.03	101.05	101.31	74.00	-27.31	Peak
2	2483.50	27.58	6.71	34.03	36.59	36.85	74.00	37.15	Peak
3	2488.60	27.58	6.73	34.03	37.13	37.41	74.00	36.59	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.

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Site no. : 3m Chamber Data no. : 319
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : GFSK TX 2480MHz

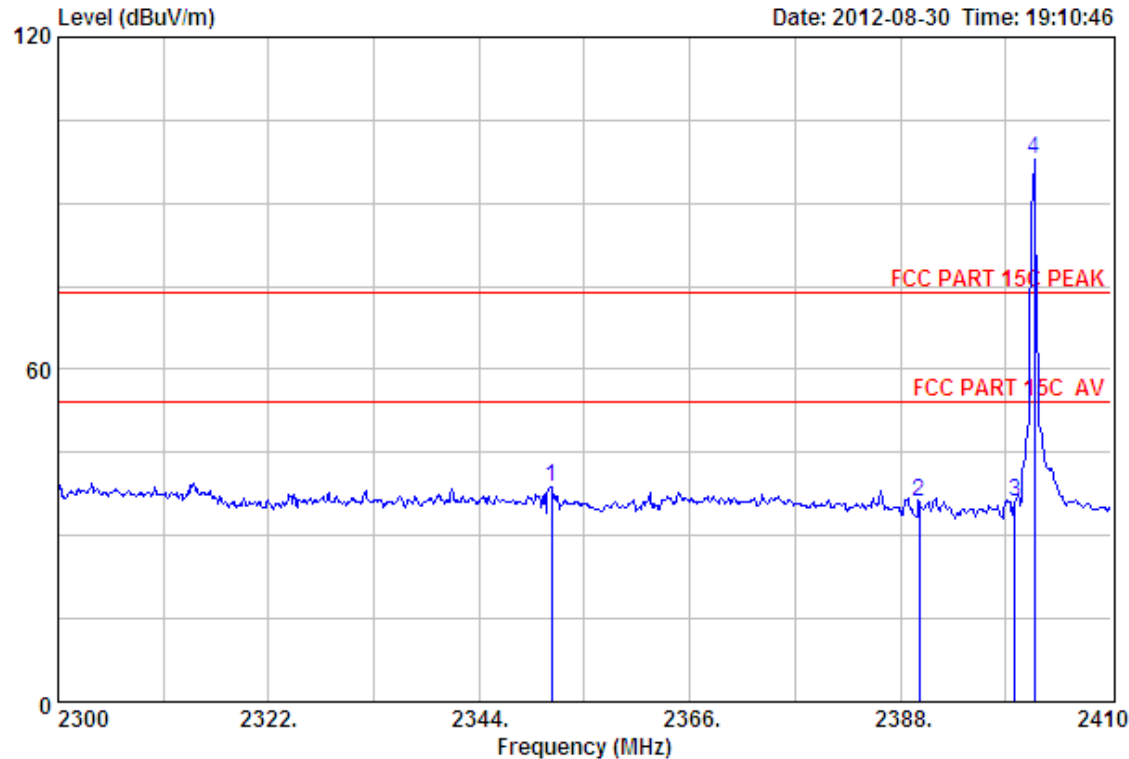
		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.98	27.58	6.71	34.03	96.39	96.65	74.00	-22.65	Peak
2	2483.50	27.58	6.71	34.03	35.06	35.32	74.00	38.68	Peak
3	2487.68	27.58	6.73	34.03	36.70	36.98	74.00	37.02	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.

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Data: 328 File: D:\test data\2012\H\Homni.EMI (403) Date: 2012-08-30 Time: 19:10:46



Site no. : 3m Chamber Data no. : 328
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : π/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBUV/m)	Margin (dB)	Remark
					Reading (dBUV)	Level (dBUV/m)			
1	2351.59	27.70	6.58	34.22	38.75	38.81	74.00	35.19	Peak
2	2390.00	27.64	6.62	34.19	35.88	35.95	74.00	38.05	Peak
3	2400.00	27.61	6.62	34.18	35.93	35.98	74.00	38.02	Peak
4	2401.97	27.61	6.62	34.18	97.94	97.99	74.00	-23.99	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.

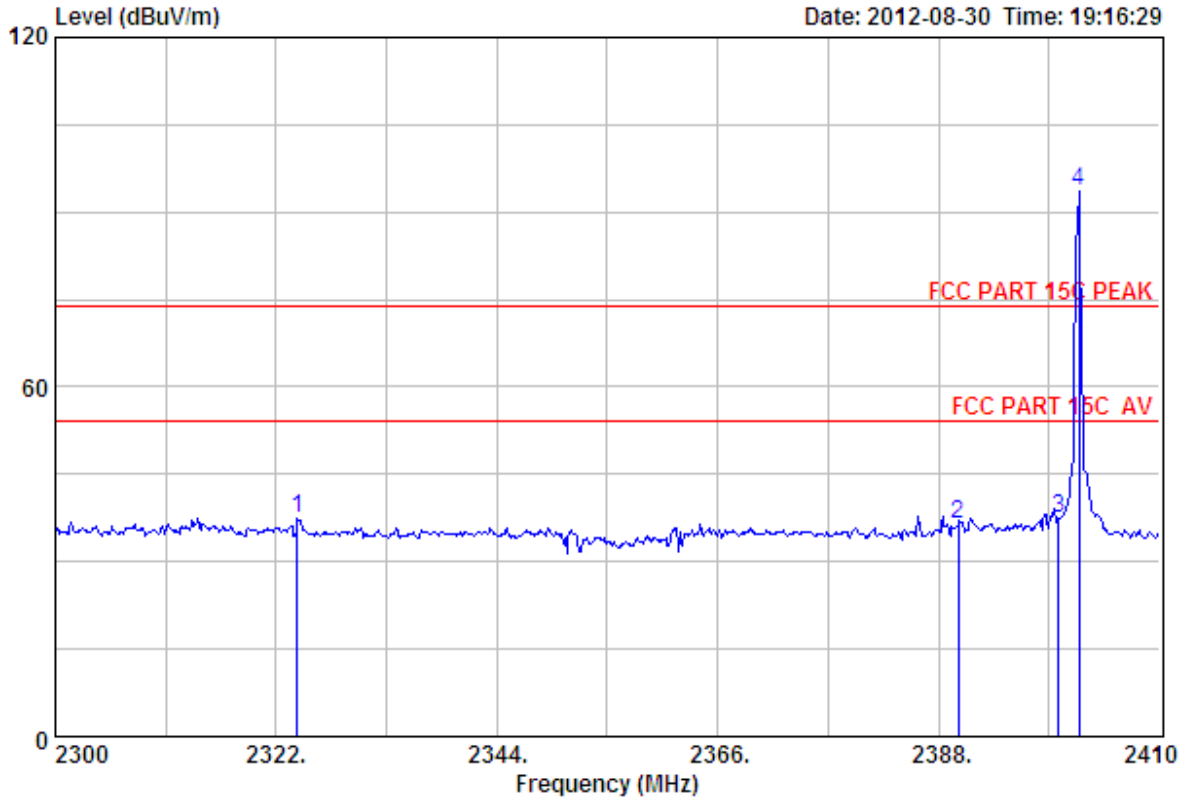
EST Technology

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Data: 329

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:16:29



Site no. : 3m Chamber Data no. : 329
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : π/4-DQPSK TX 2402MHz

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2324.09	27.73	6.54	34.23	37.29	37.33	74.00	36.67	Peak
2	2390.00	27.64	6.62	34.19	36.53	36.60	74.00	37.40	Peak
3	2400.00	27.61	6.62	34.18	37.41	37.46	74.00	36.54	Peak
4	2401.97	27.61	6.62	34.18	93.63	93.68	74.00	-19.68	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.

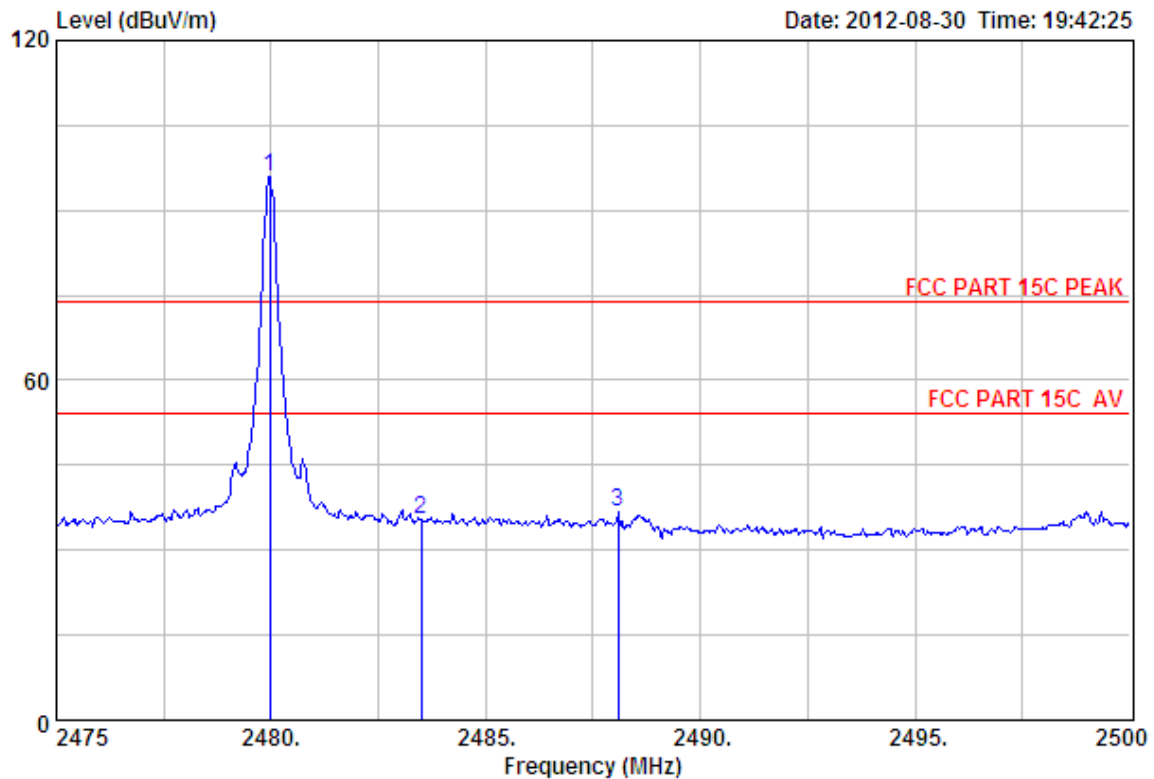
EST Technology

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Data: 334

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:42:25



Site no. : 3m Chamber Data no. : 334
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : $\pi/4$ -DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.98	27.58	6.71	34.03	95.76	96.02	74.00	-22.02	Peak
2	2483.50	27.58	6.71	34.03	35.03	35.29	74.00	38.71	Peak
3	2488.08	27.58	6.73	34.03	36.46	36.74	74.00	37.26	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.

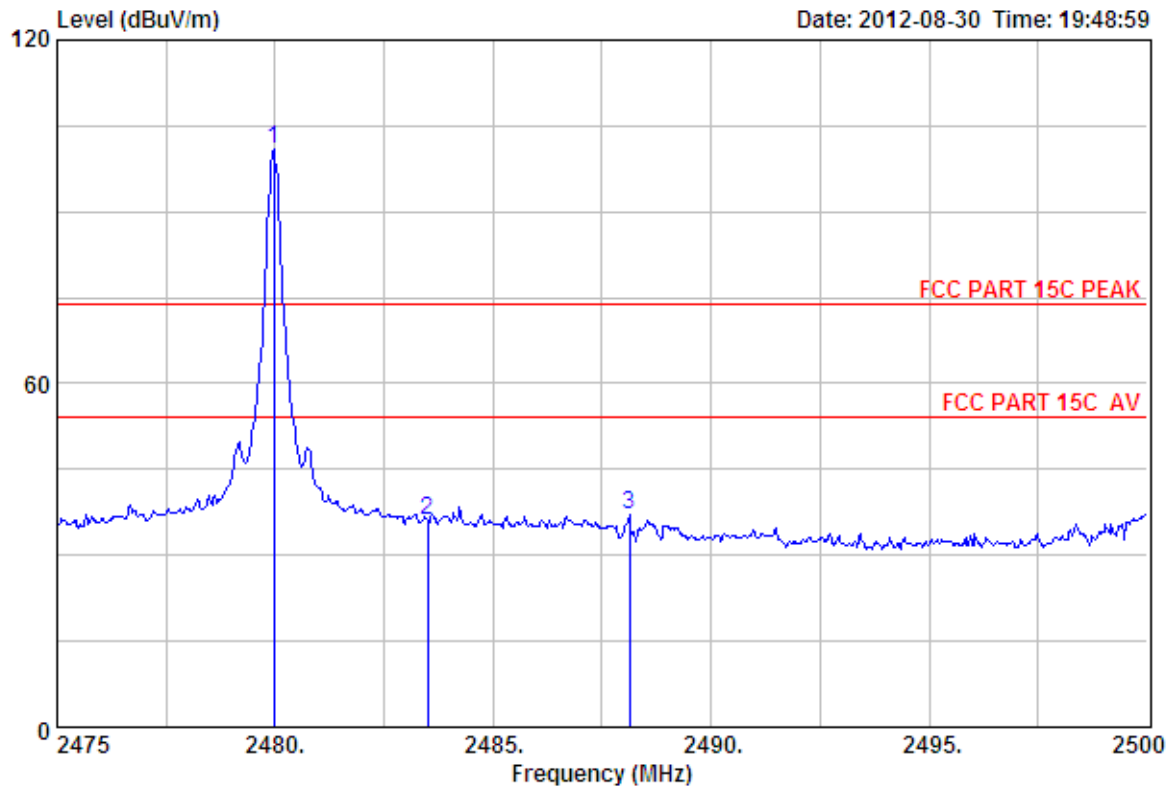
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Data: 335

File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 19:48:59



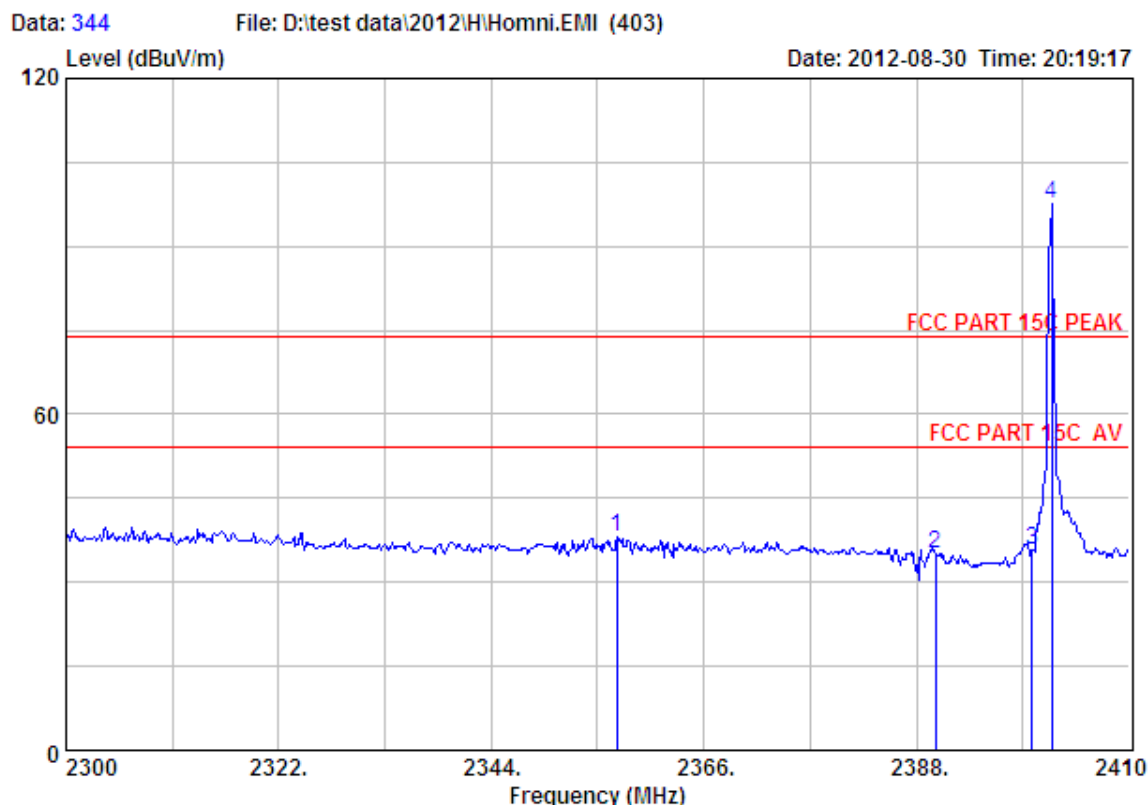
Site no. : 3m Chamber Data no. : 335
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : n/4-DQPSK TX 2480MHz

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2479.98	27.58	6.71	34.03	100.57	100.83	74.00	-26.83	Peak
2	2483.50	27.58	6.71	34.03	35.90	36.16	74.00	37.84	Peak
3	2488.13	27.58	6.73	34.03	36.76	37.04	74.00	36.96	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.

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Site no. : 3m Chamber Data no. : 344
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : 8-DPSK TX 2402MHz

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2356.98	27.67	6.58	34.20	38.00	38.05	74.00	35.95	Peak
2	2390.00	27.64	6.62	34.19	35.02	35.09	74.00	38.91	Peak
3	2400.00	27.61	6.62	34.18	35.87	35.92	74.00	38.08	Peak
4	2401.97	27.61	6.62	34.18	97.60	97.65	74.00	-23.65	Peak

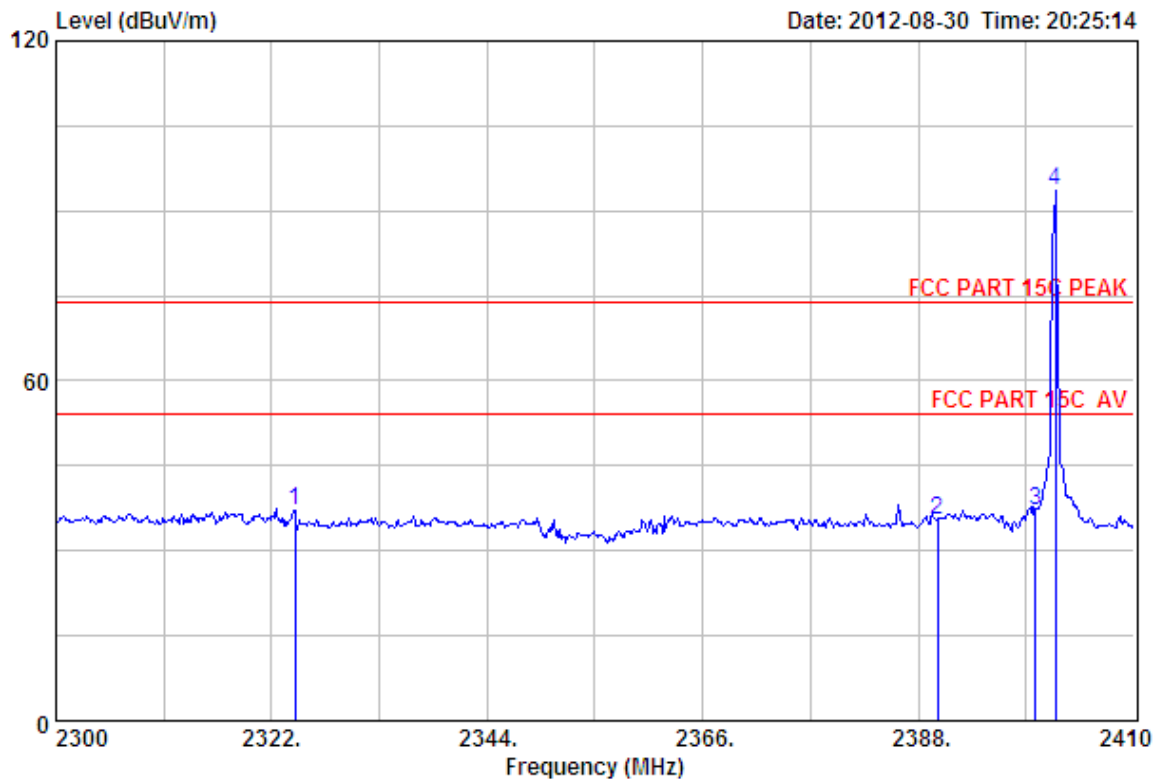
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 345 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:25:14



Site no. : 3m Chamber Data no. : 345
 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 : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 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	2324.42	27.73	6.54	34.23	37.18	37.22	74.00	36.78	Peak
2	2390.00	27.64	6.62	34.19	35.44	35.51	74.00	38.49	Peak
3	2400.00	27.61	6.62	34.18	37.13	37.18	74.00	36.82	Peak
4	2401.97	27.61	6.62	34.18	93.52	93.57	74.00	-19.57	Peak

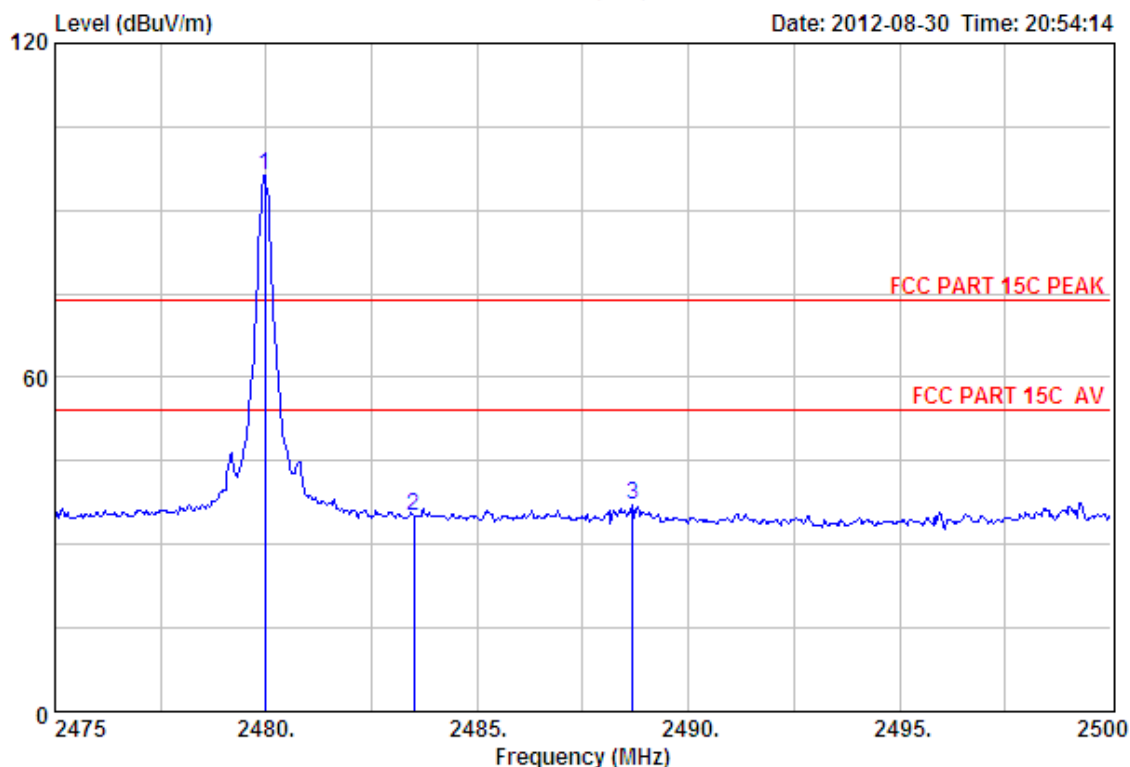
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 350 File: D:\test data\2012\H\Homni.EMI (403)

Date: 2012-08-30 Time: 20:54:14



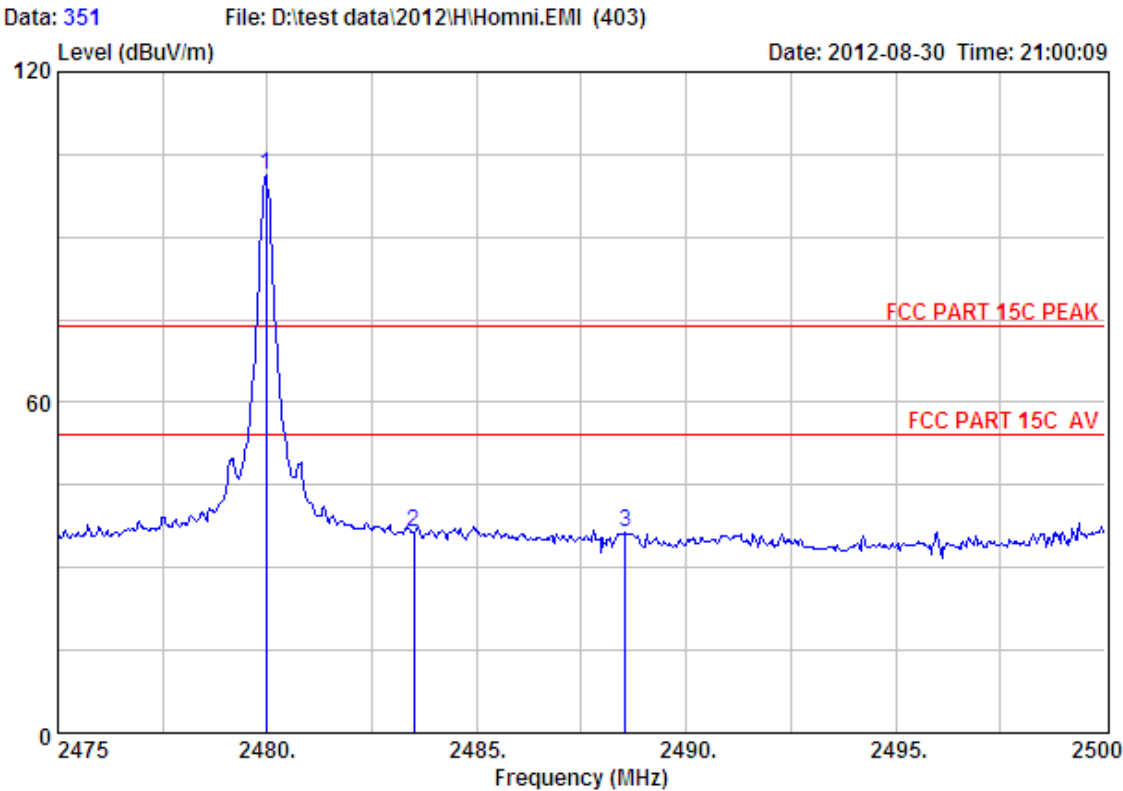
Site no. : 3m Chamber Data no. : 350
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : BT Wireless Speaker
 Power : AC 120V/60Hz
 M/N : Transactive Air
 Test Mode : 8-DPSK TX 2480MHz

	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	2479.98	27.58	6.71	34.03	96.08	96.34	74.00	-22.34	Peak
2	2483.50	27.58	6.71	34.03	34.98	35.24	74.00	38.76	Peak
3	2488.68	27.58	6.73	34.03	36.88	37.16	74.00	36.84	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.

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Site no. : 3m Chamber Data no. : 351
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 : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2479.98	27.58	6.71	34.03	100.91	101.17	74.00	-27.17	Peak
2	2483.50	27.58	6.71	34.03	36.27	36.53	74.00	37.47	Peak
3	2488.55	27.58	6.73	34.03	36.02	36.30	74.00	37.70	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.

10. POWER LINE CONDUCTED EMISSIONS

10.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

10.2. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT was charged from PC's USB port which connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#).. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

10.3. Test Result

EUT: BT WIRELESS SPEAKER M/N:TRANSAVTIVE AIR
Power: AC 120V/60Hz
Test date: 2012-08-30 Tested by: Tony Tang
Test mode: Tx Mode
Pass

10.4.Test Data

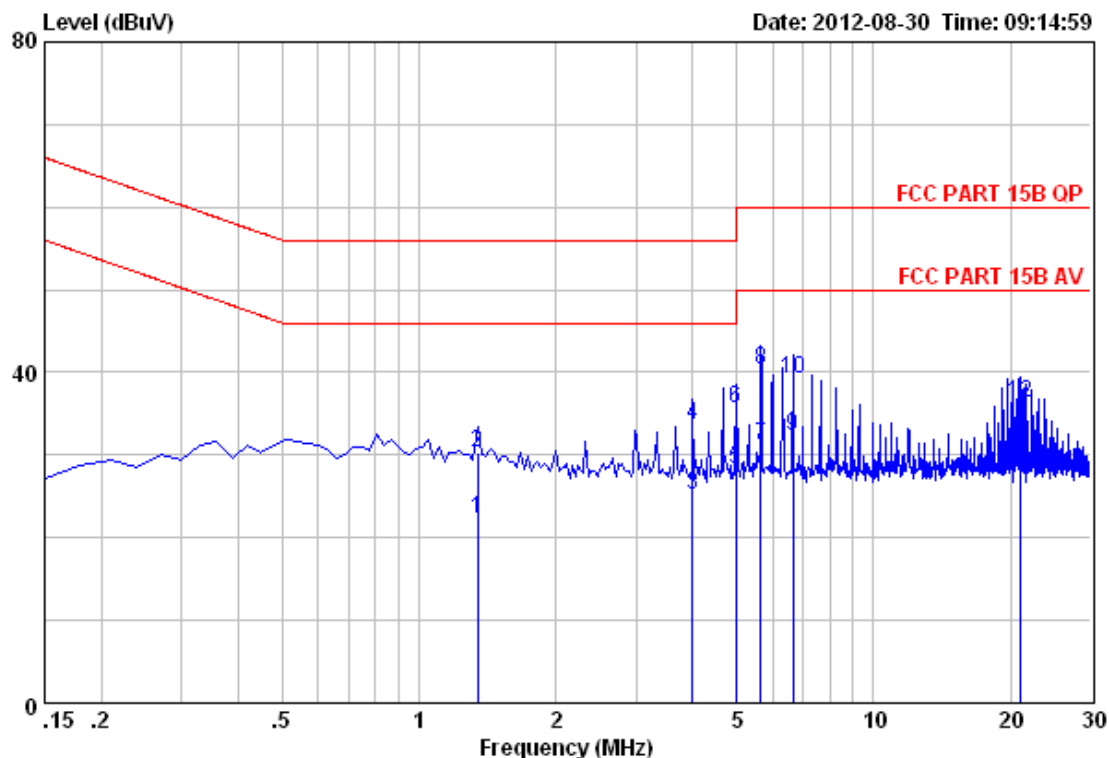
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Data: 391

File: D:\test data\2012\H\Homni.EMI (394)

Date: 2012-08-30 Time: 09:14:59



Site no. : EST 844 Shielded Room Data no. : 391
Limit : FCC PART 15B QP LINE Phase : LINE
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa
Engineer : Tony
EUT : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : TX Mode

		LISN	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1.34	9.63	9.81	2.86	22.30	46.00	23.70	Average
2	1.34	9.63	9.81	10.94	30.38	56.00	25.62	QP
3	4.00	9.64	9.84	5.72	25.20	46.00	20.80	Average
4	4.00	9.64	9.84	14.19	33.67	56.00	22.33	QP
5	4.99	9.65	9.84	8.91	28.40	46.00	17.60	Average
6	4.99	9.65	9.84	16.08	35.57	56.00	20.43	QP
7	5.64	9.65	9.86	11.69	31.20	50.00	18.80	Average
8	5.64	9.65	9.86	20.76	40.27	60.00	19.73	QP
9	6.66	9.66	9.85	12.89	32.40	50.00	17.60	Average
10	6.66	9.66	9.85	19.70	39.21	60.00	20.79	QP
11	20.96	9.68	9.97	6.25	25.90	50.00	24.10	Average
12	20.96	9.68	9.97	16.69	36.34	60.00	23.66	QP

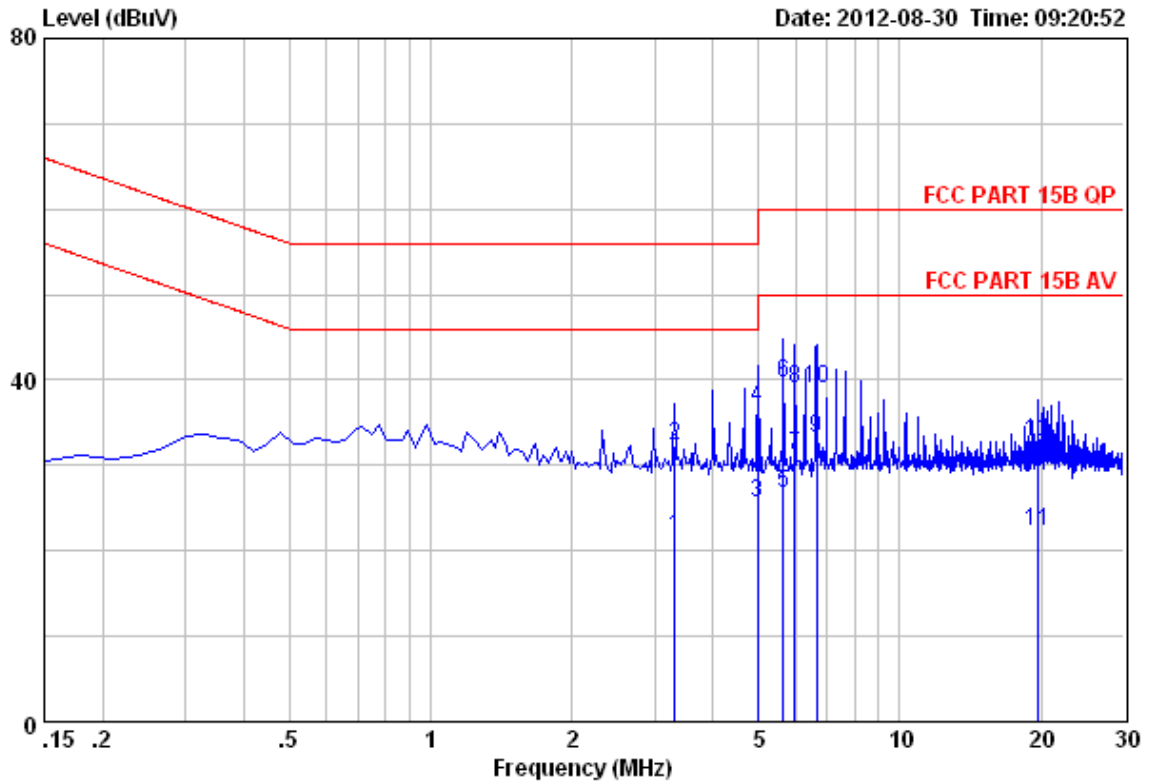
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Data: 393

File: D:\test data\2012\H\Homni.EMI (394)

Date: 2012-08-30 Time: 09:20:52



Site no. : EST 844 Shielded Room Data no. : 393
Limit : FCC PART 15B QP LINE Phase : NEUTRAL
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa
Engineer : Tony
EUT : BT Wireless Speaker
Power : AC 120V/60Hz
M/N : Transactive Air
Test Mode : TX Mode

		LISN	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	3.31	9.64	9.84	2.12	21.60	46.00	24.40	Average
2	3.31	9.64	9.84	12.81	32.29	56.00	23.71	QP
3	4.99	9.65	9.84	6.11	25.60	46.00	20.40	Average
4	4.99	9.65	9.84	17.26	36.75	56.00	19.25	QP
5	5.64	9.65	9.86	7.19	26.70	50.00	23.30	Average
6	5.64	9.65	9.86	20.18	39.69	60.00	20.31	QP
7	5.97	9.66	9.87	11.77	31.30	50.00	18.70	Average
8	5.97	9.66	9.87	19.51	39.04	60.00	20.96	QP
9	6.66	9.66	9.85	13.59	33.10	50.00	16.90	Average
10	6.66	9.66	9.85	19.52	39.03	60.00	20.97	QP
11	19.73	9.87	9.95	2.38	22.20	50.00	27.80	Average
12	19.73	9.87	9.95	12.85	32.67	60.00	27.33	QP

11.ANTENNA REQUIREMENTS

11.1.Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2.Result

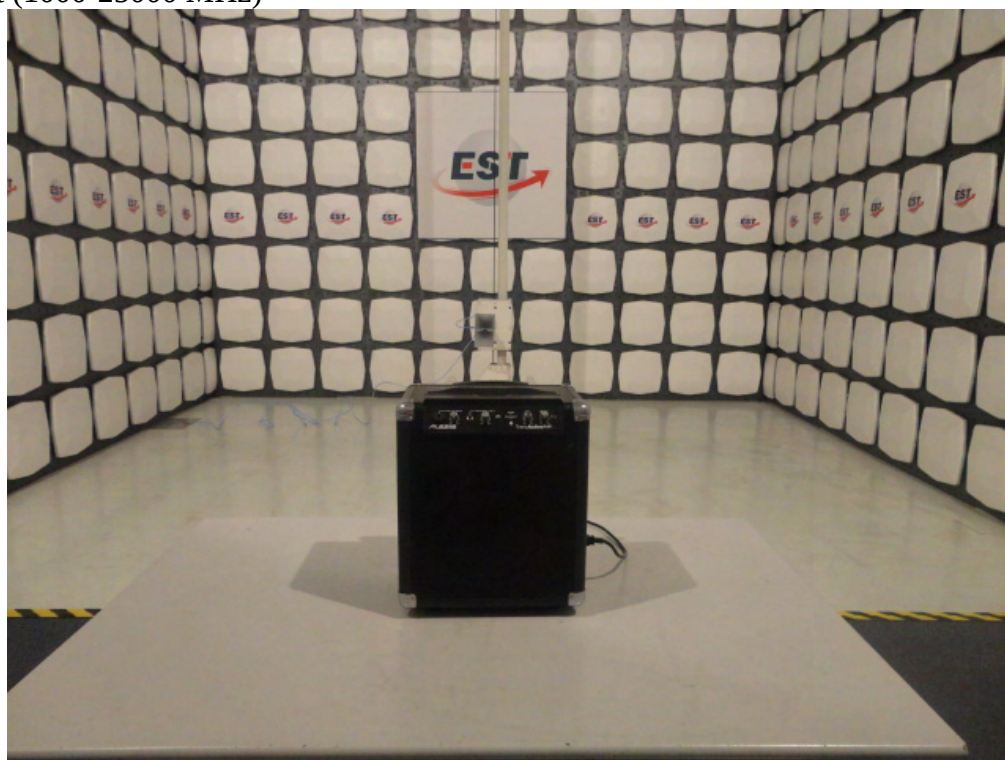
The antennas used for this product are integral Patch Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.5 dBi.

12. TEST SETUP PHOTO

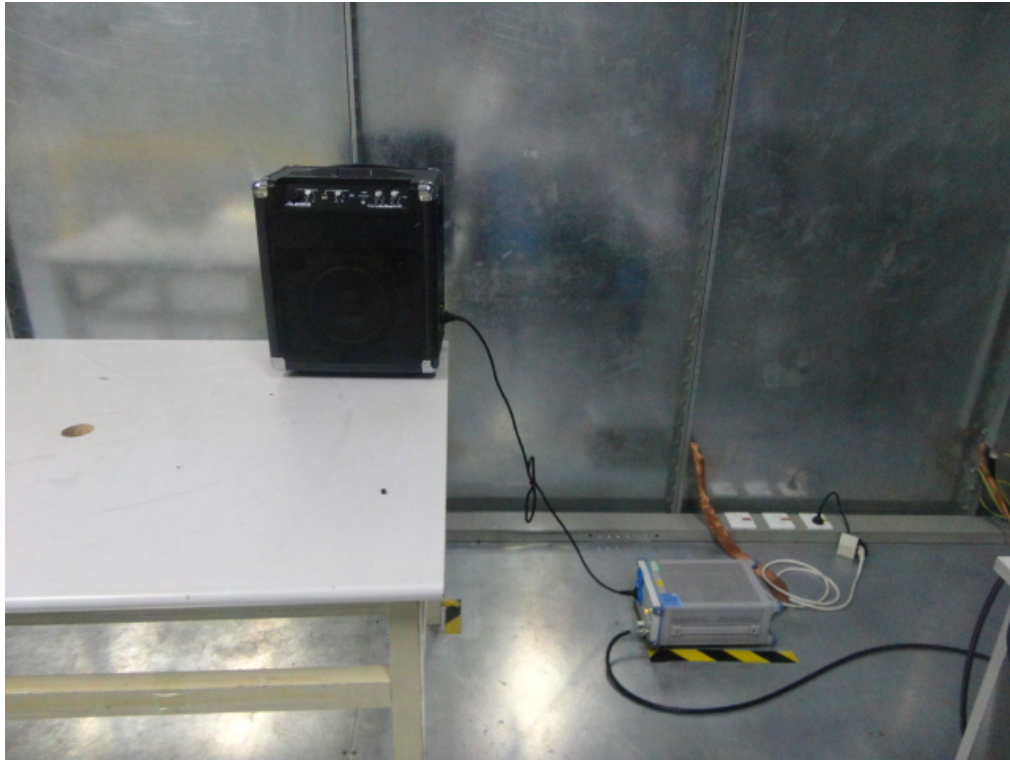
Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



Conducted test



13. PHOTOS OF EUT

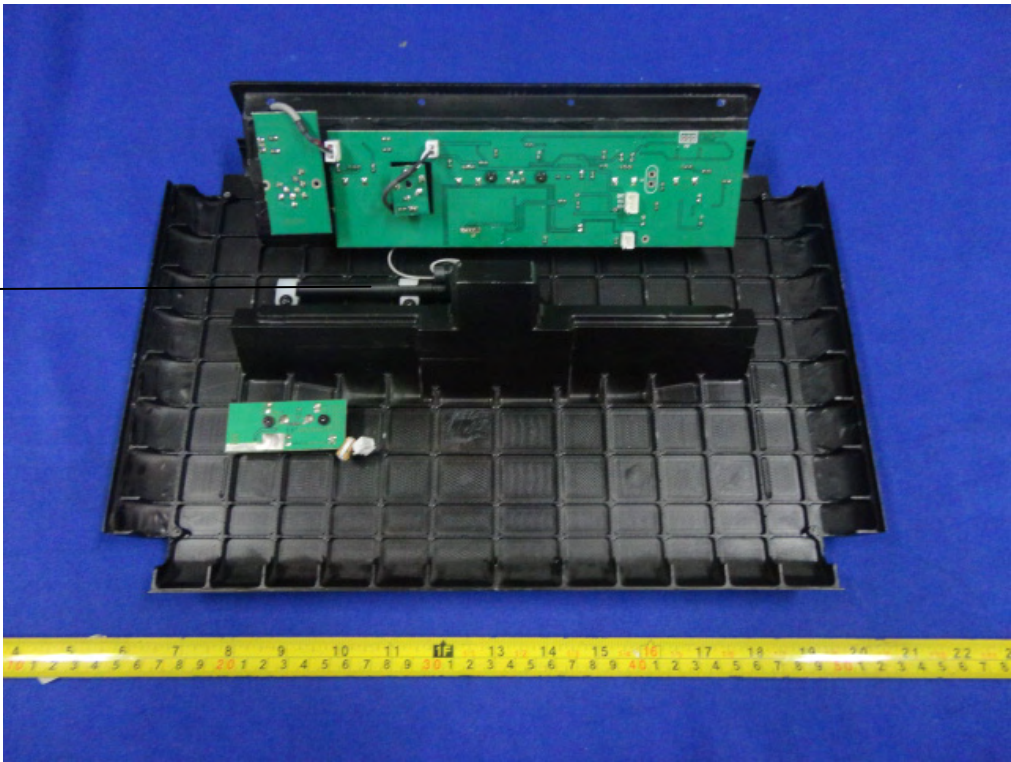
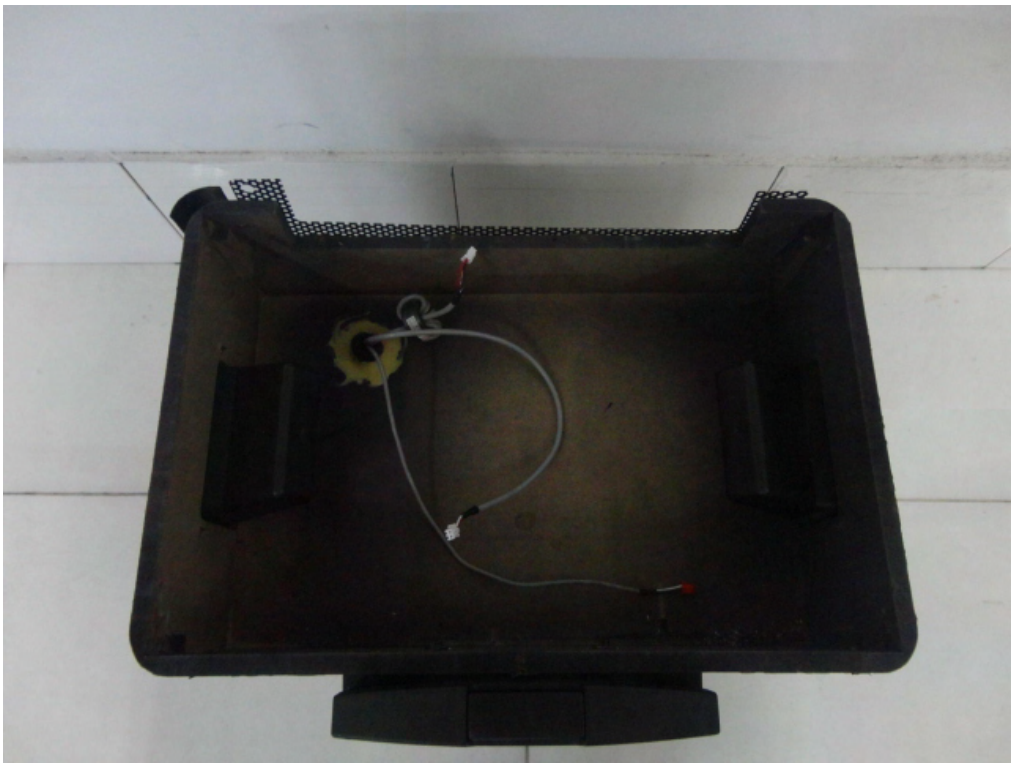
External Photos



External Photos

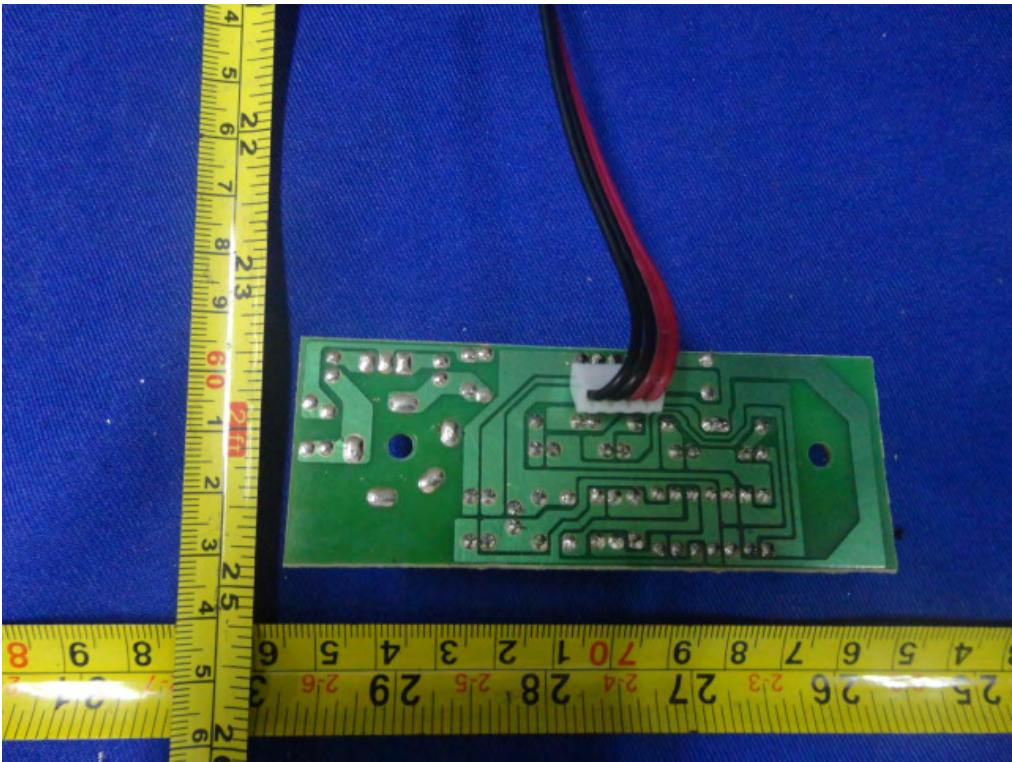
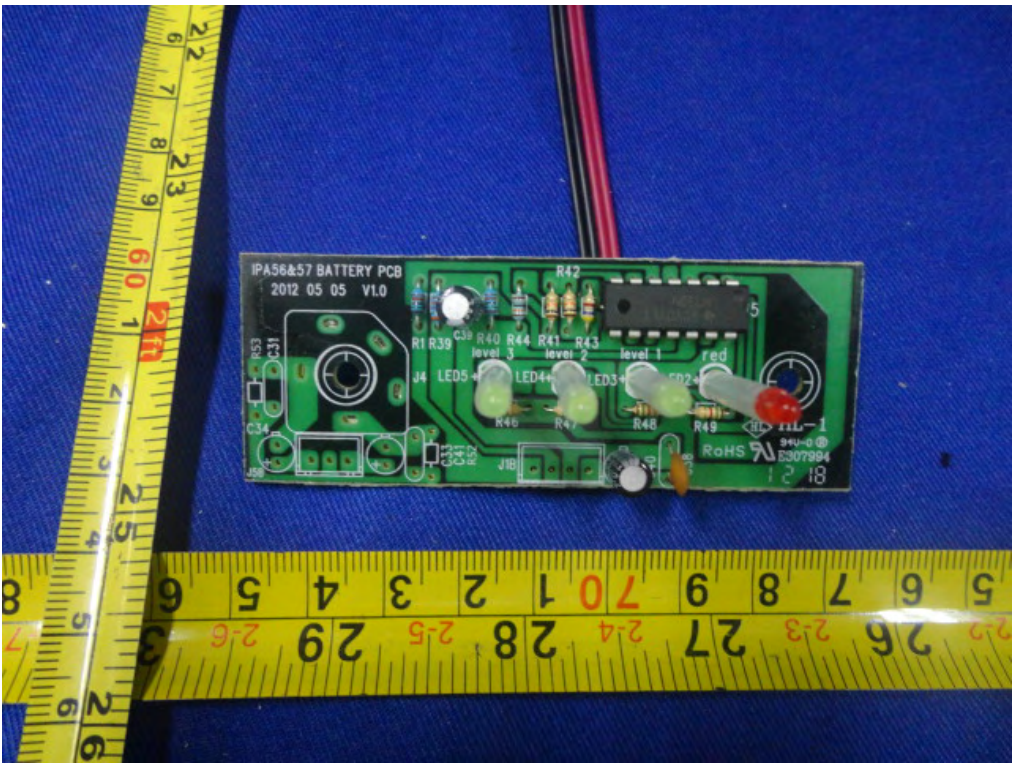


Internal Photos

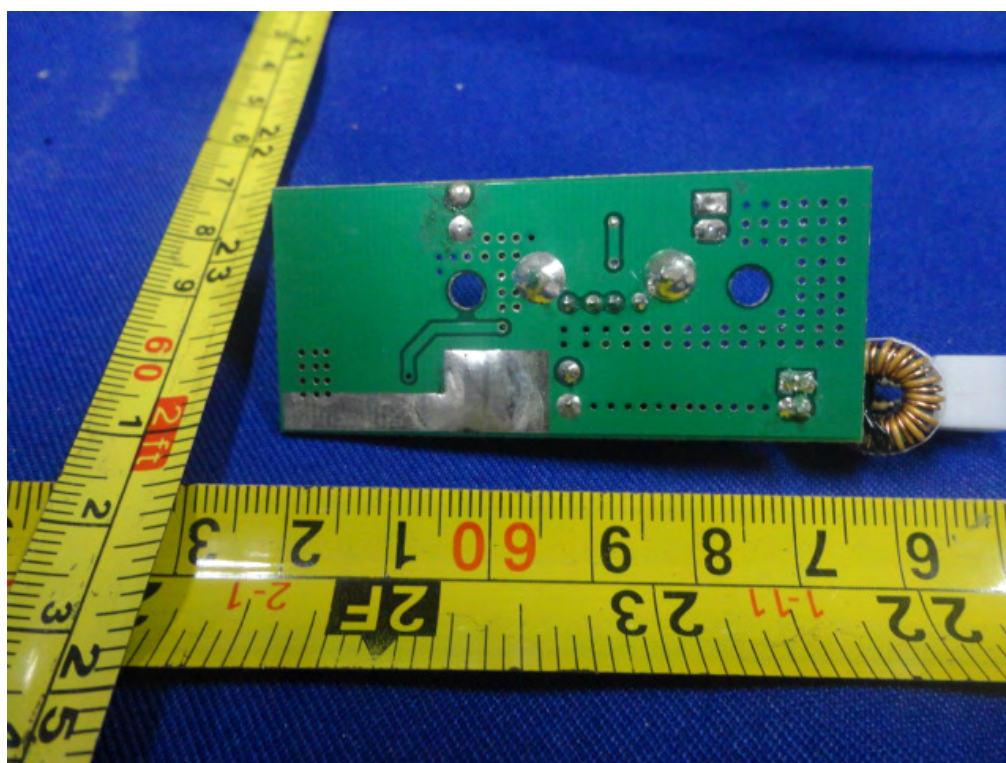
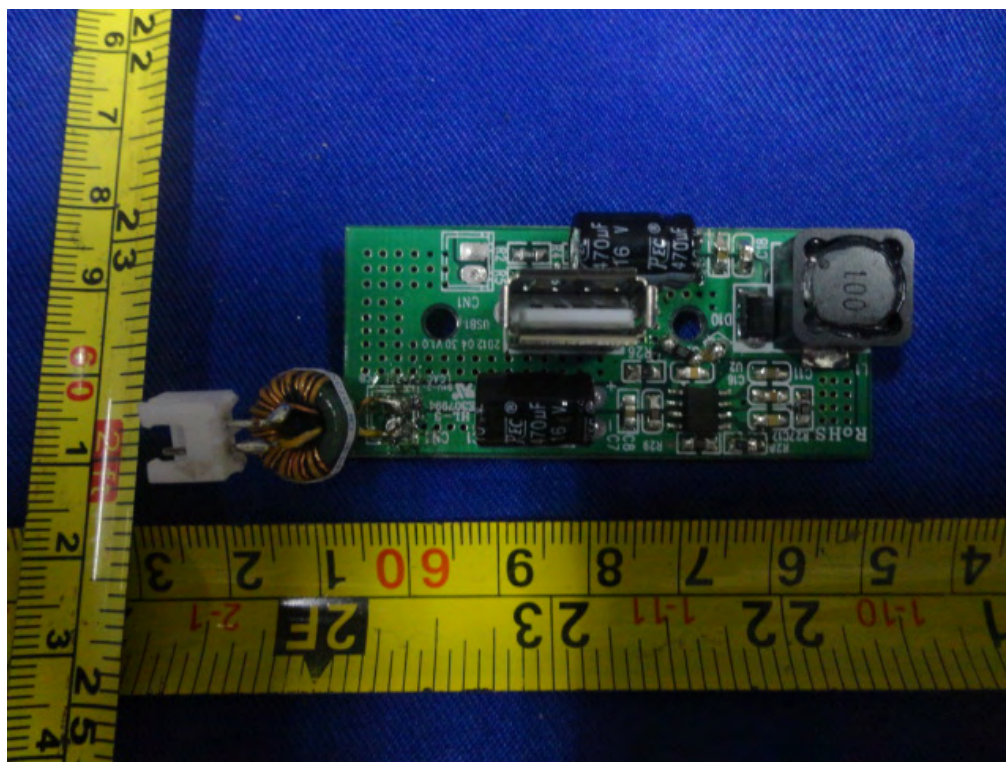


Antenna

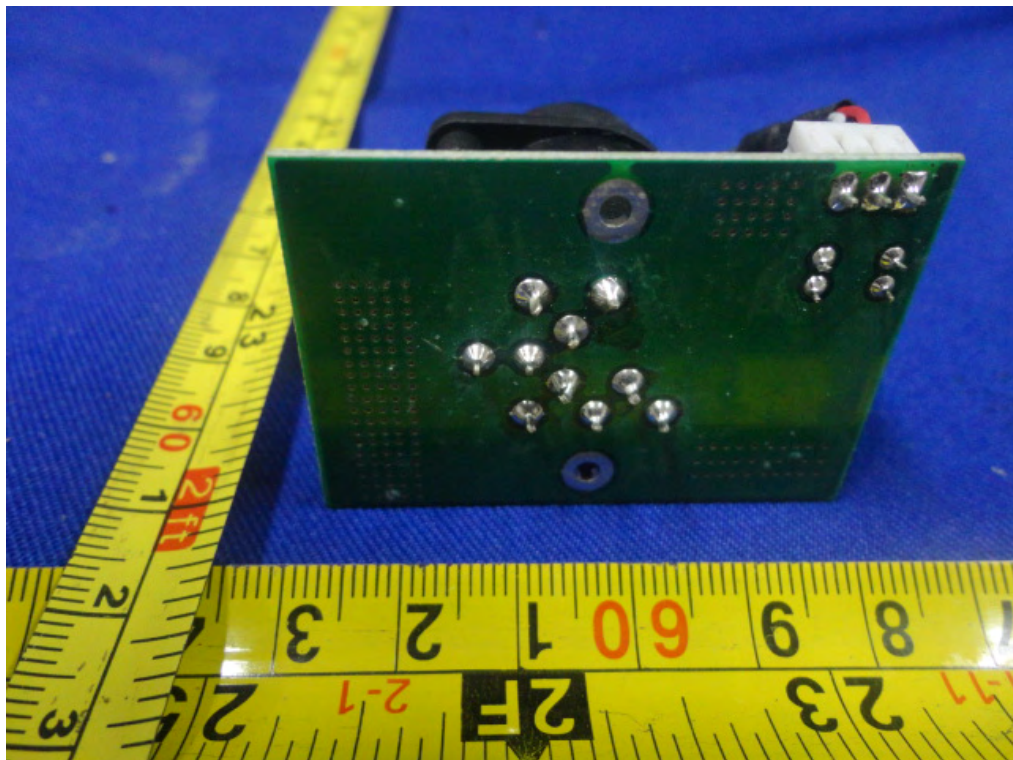
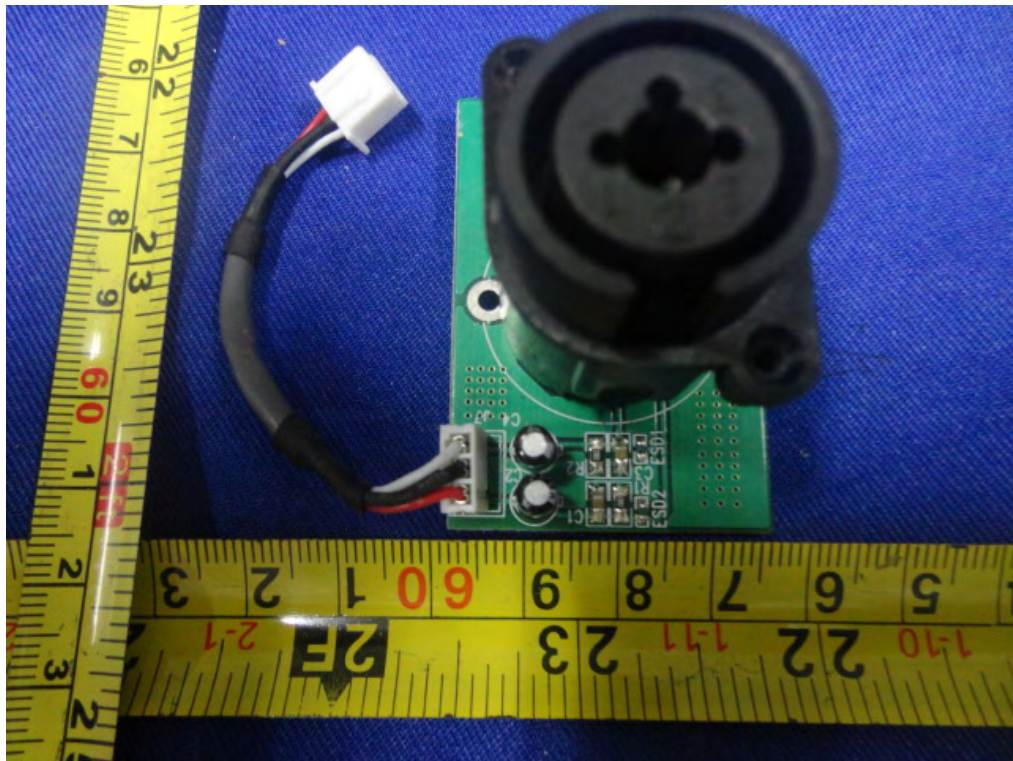
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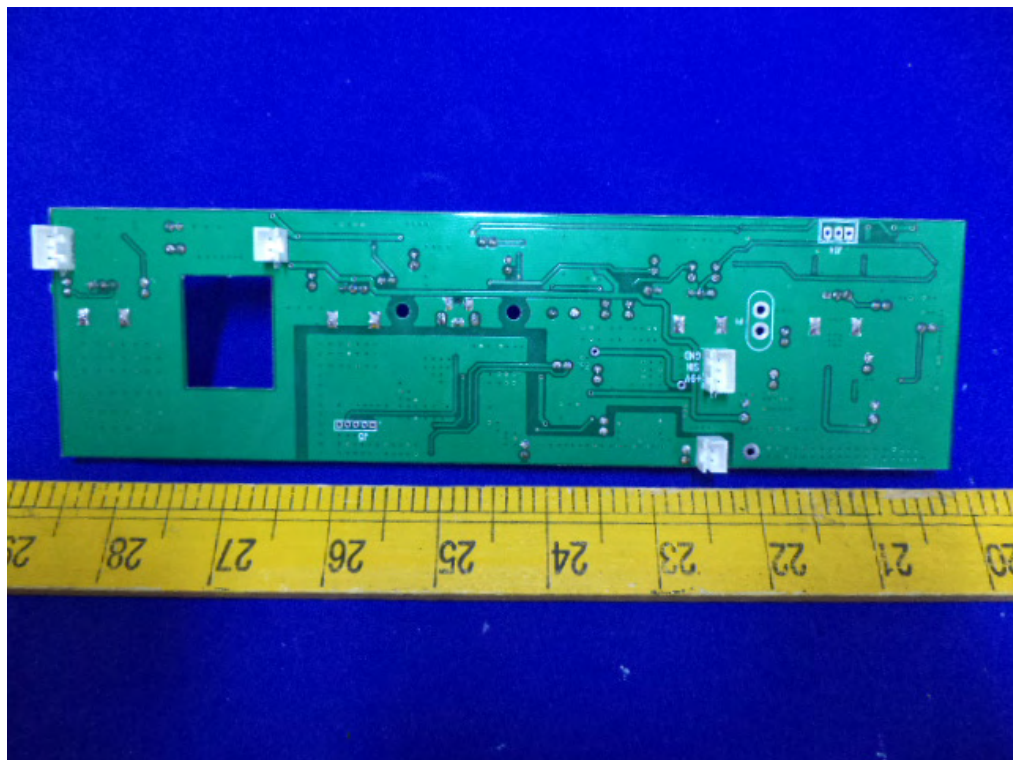
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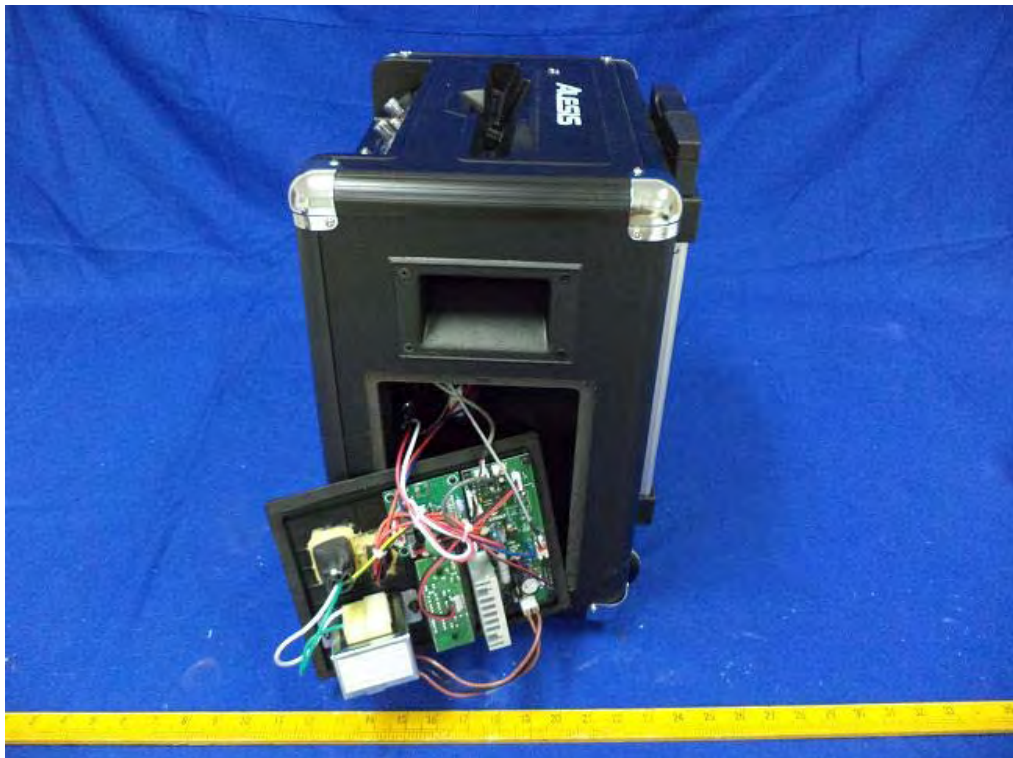
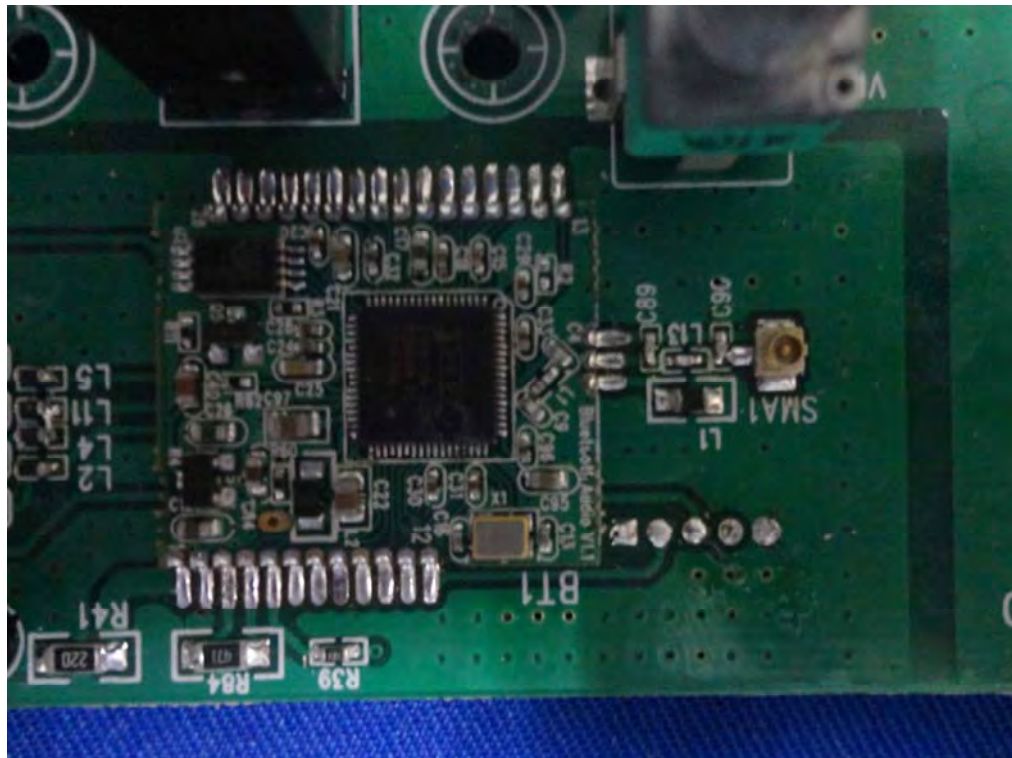
Internal Photos



Internal Photos



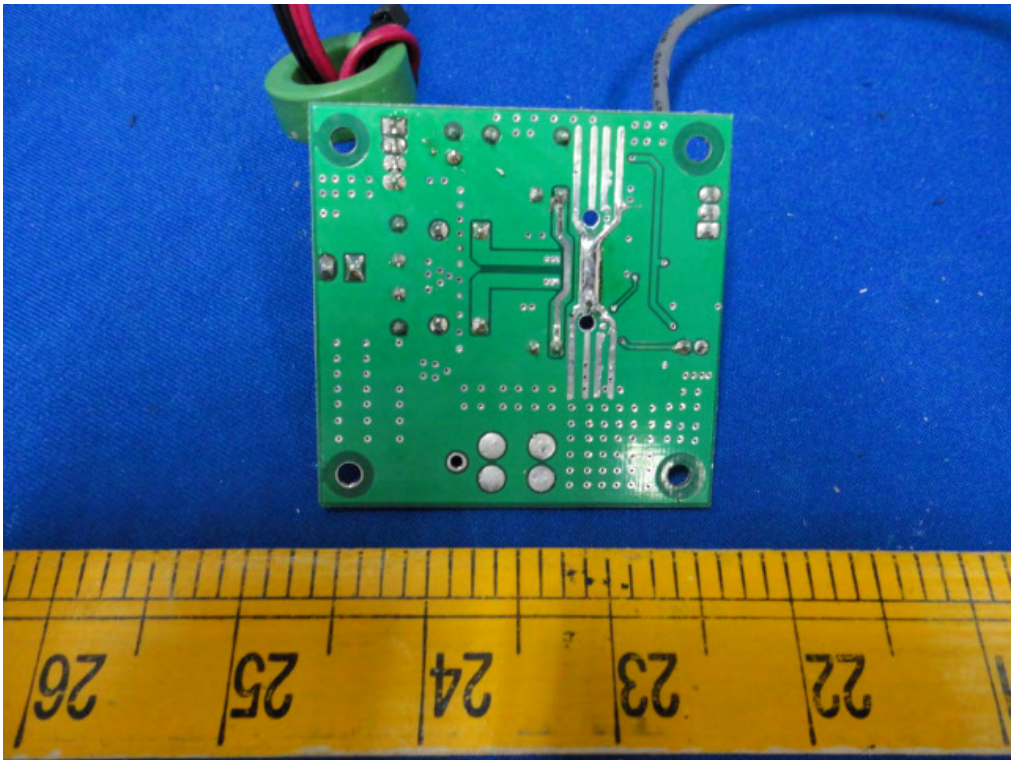
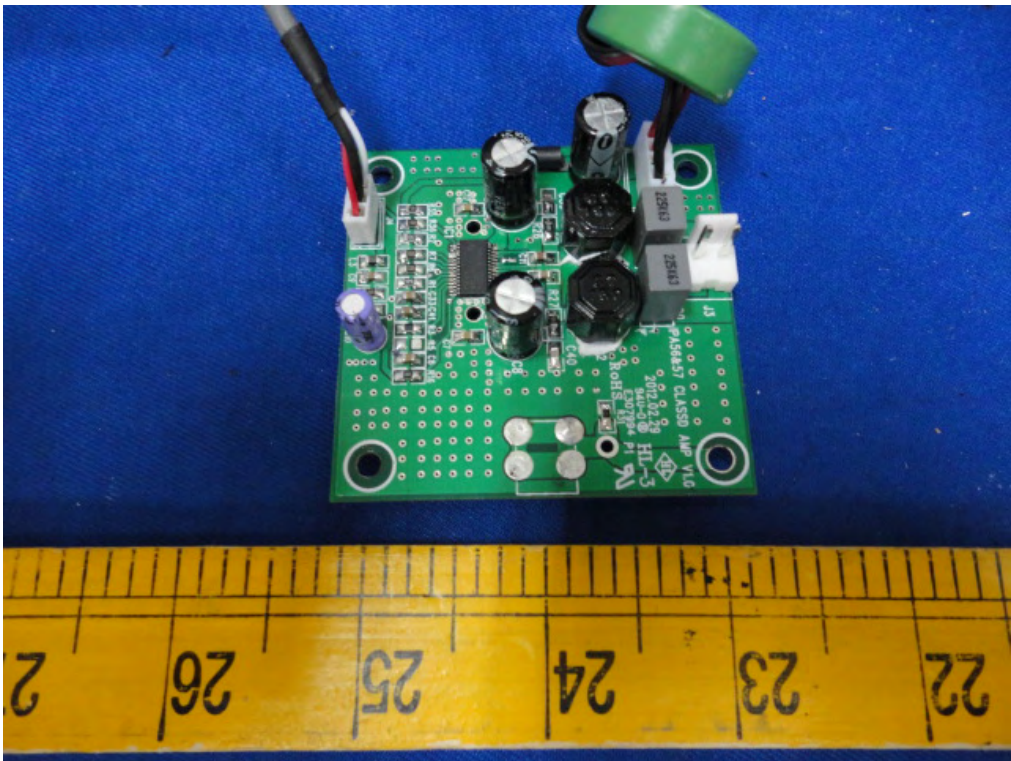
Internal Photos



Internal Photos



Internal Photos



Internal Photos

