

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

ION AUDIO LLC

TRANSACTIVE AIR

Model Number: LGAC

FCC ID: Y4O-LGAC

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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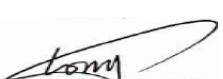
Report Number: ESTE-R1207003
Date of Test : June 19~ July 14, 2012
Date of Report : 17 July, 2012

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Test Report Verification

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		
E.U.T:	Transactive Air		
Model Number:	LGAC		
Power Supply:	AC 120V/60Hz		
Test Voltage:	AC 120V/60Hz		
Trade Name:	ALESIS	Serial No.:	-----
Date of Receipt:	May 23, 2012	Date of Test:	June 19~ July 14, 2012
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2011 ANSI C63.4:2003		
Test Result:	<p>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.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
	Date: July 19, 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 <i>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.</i>			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name : Transactive Air

Model Number : LGAC

FCC ID : Y4O-LGAC

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.

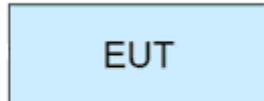
Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

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 set into BT test mode by Bluesuite software before test.



2.5. Test mode

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

Mode	Channel	Frequency
GFSK	Low	2402MHz
	Middle	2441MHz
	High	2480MHz
$\pi/4$ -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 25,11	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,25,11	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

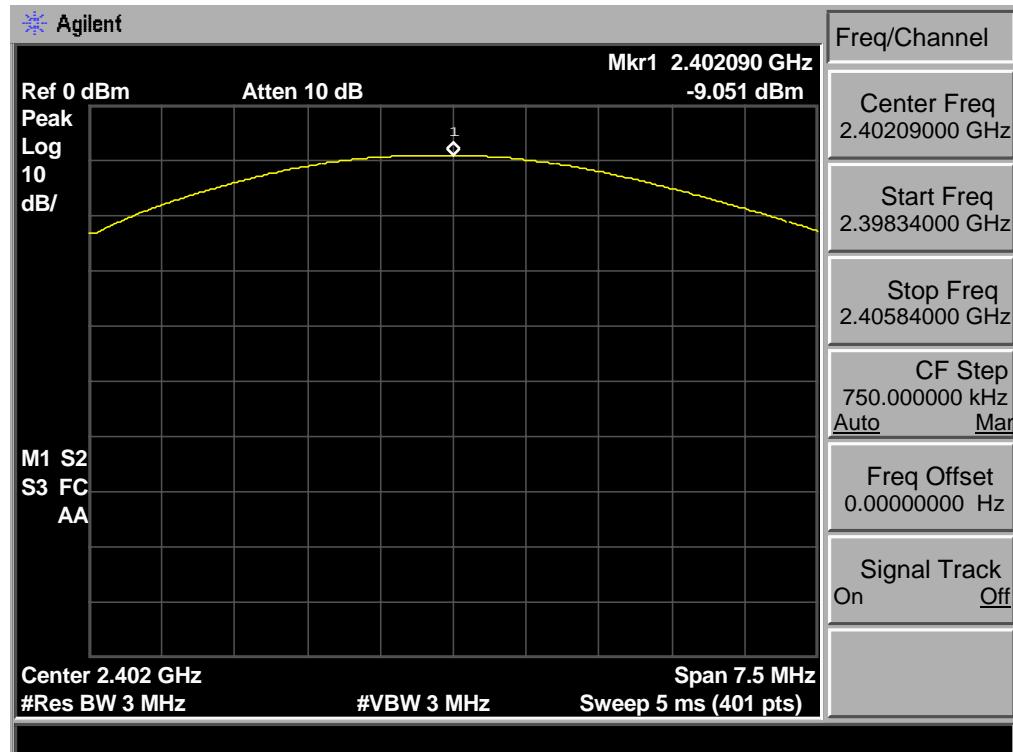
The transmitter output (antenna port) was connected to the spectrum analyzer

3.3. Test Result

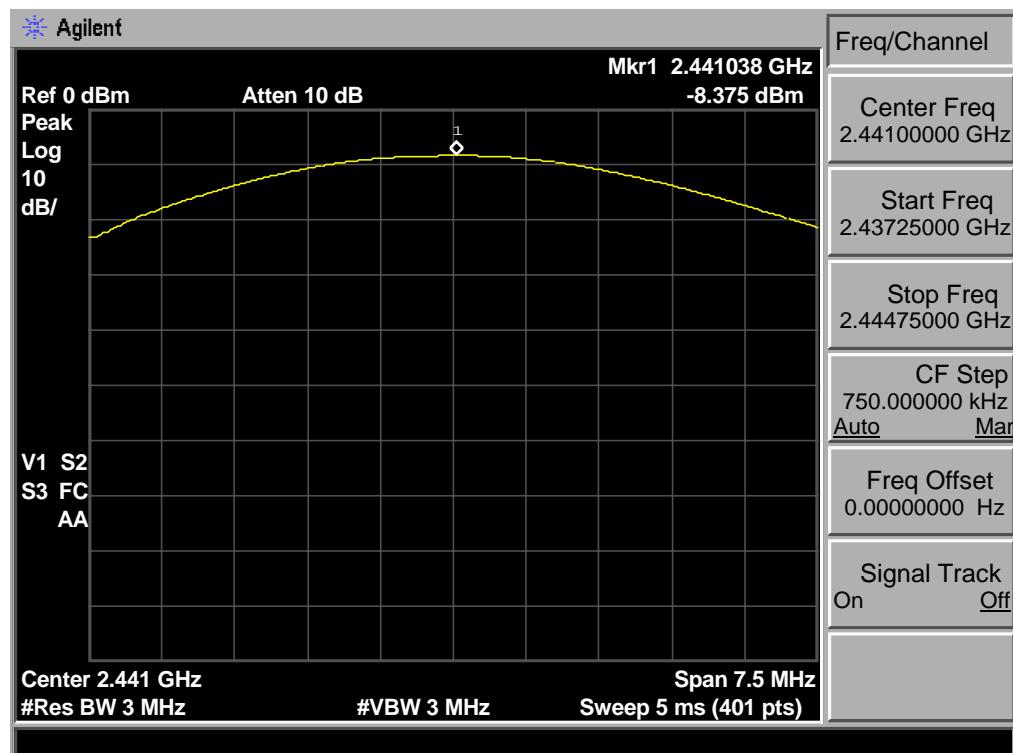
EUT: Transactive Air M/N:LGAC		Result (dBm)	Limit		Margin (dB)
Mode	Freq (MHz)		dBm	W	
GFSK	2402	-9.051	21.00	0.125	30.051
	2441	-8.375	21.00	0.125	29.375
	2480	-7.039	21.00	0.125	28.039
$\pi/4$ -DQPSK	2402	-11.200	21.00	0.125	32.200
	2441	-10.340	21.00	0.125	31.340
	2480	-8.807	21.00	0.125	29.807
8-DPSK	2402	-10.270	21.00	0.125	31.270
	2441	-9.549	21.00	0.125	30.549
	2480	-8.432	21.00	0.125	29.432
Conclusion: PASS					

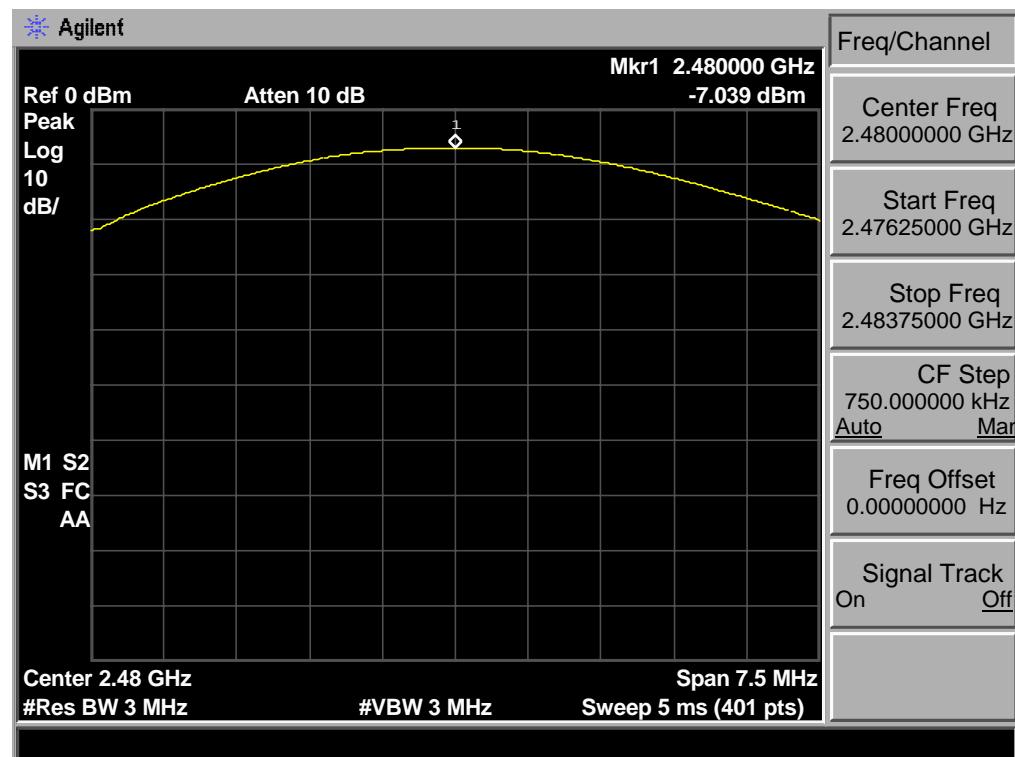
3.4. Test Data

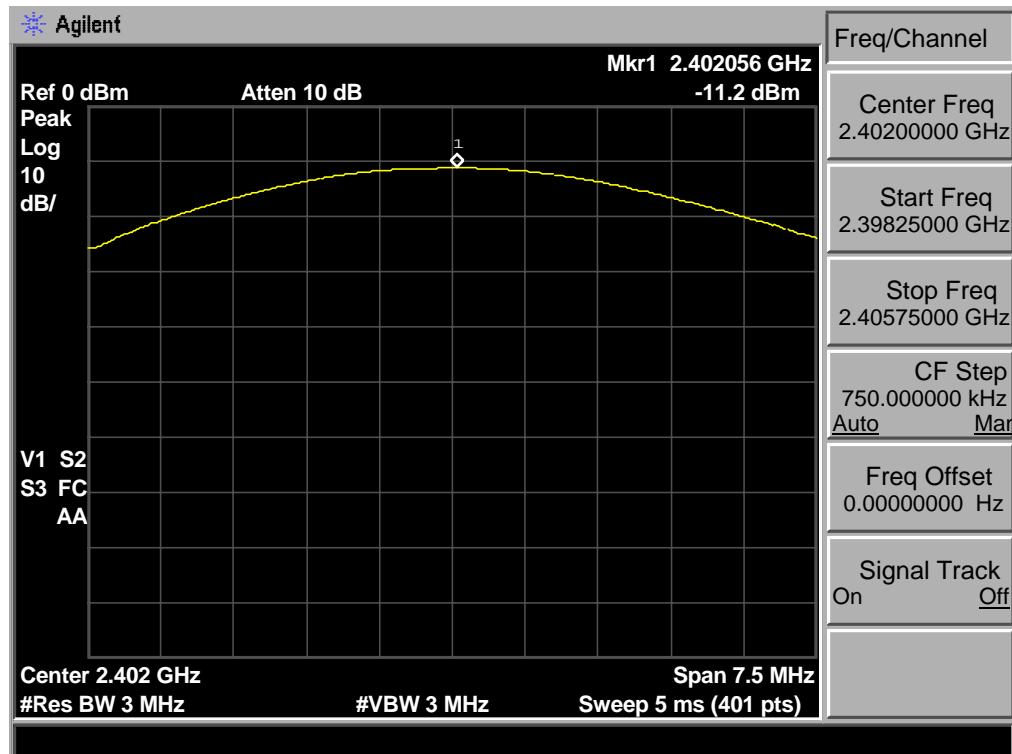
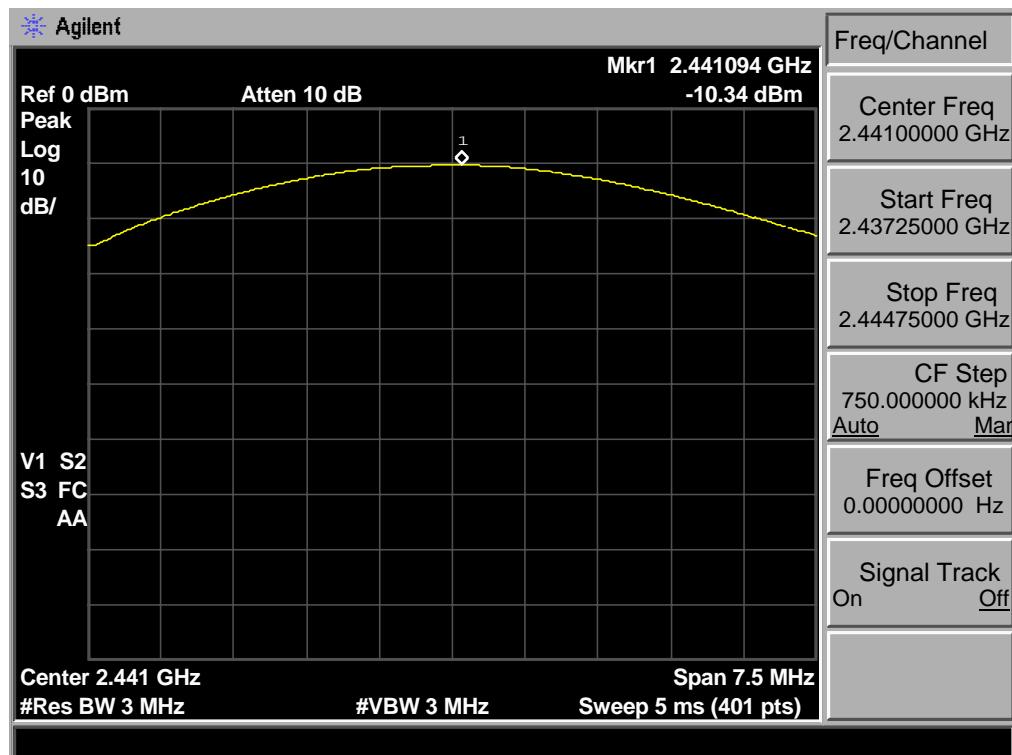
GFSK 2402 MHz

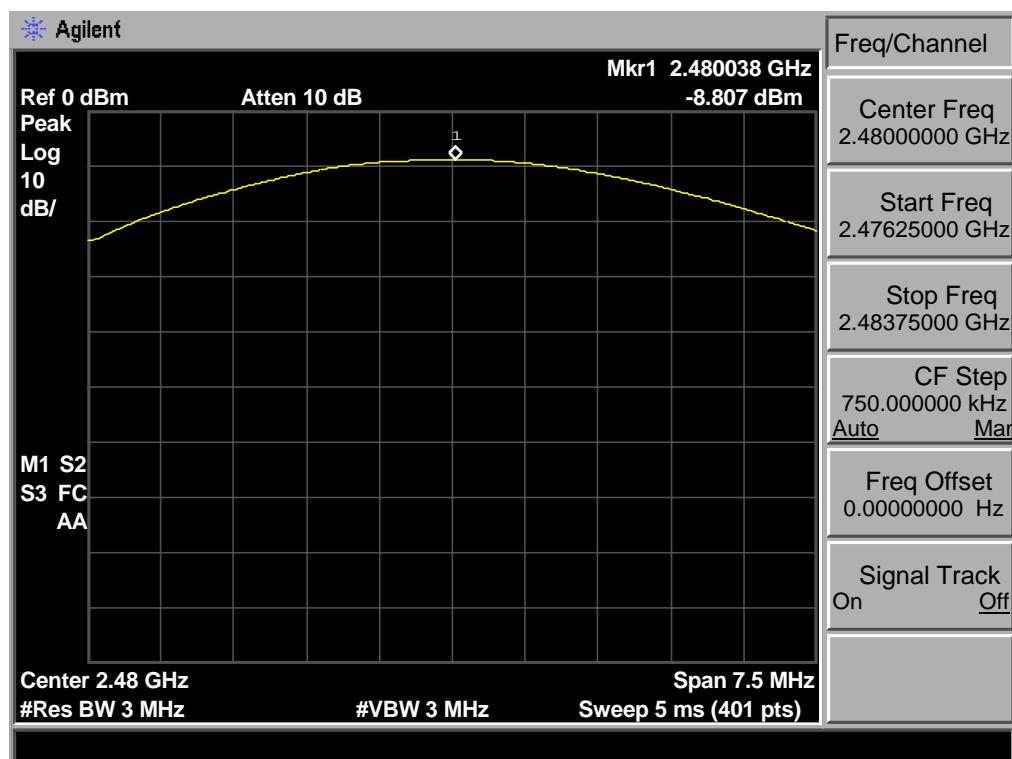


GFSK 2441 MHz

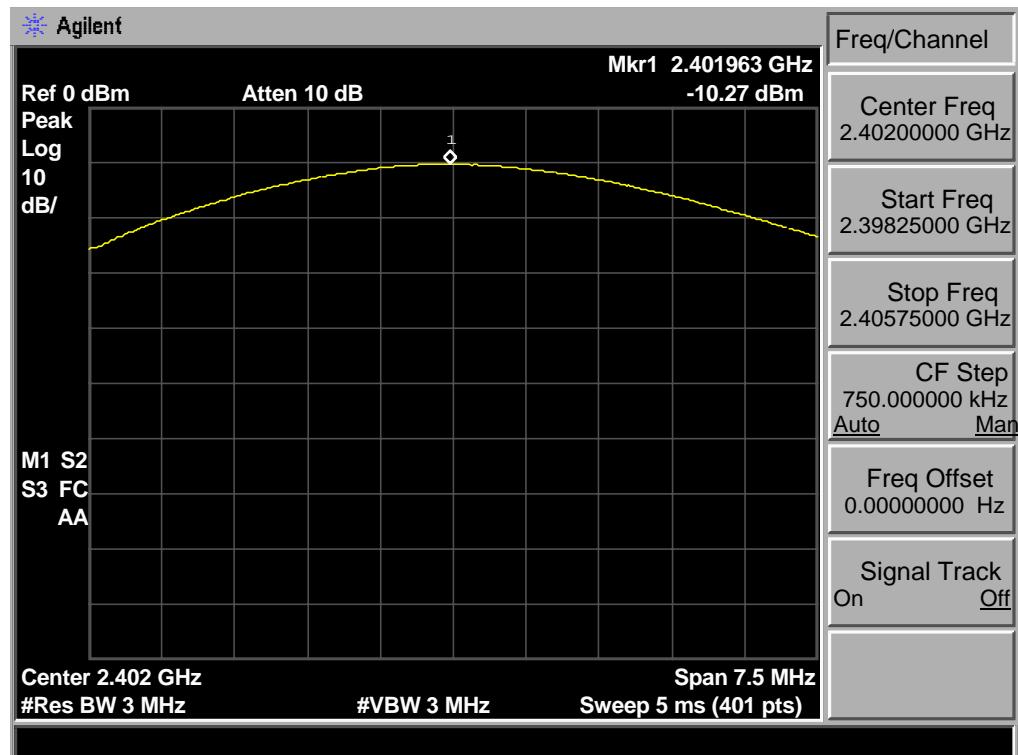


GFSK 2480 MHz

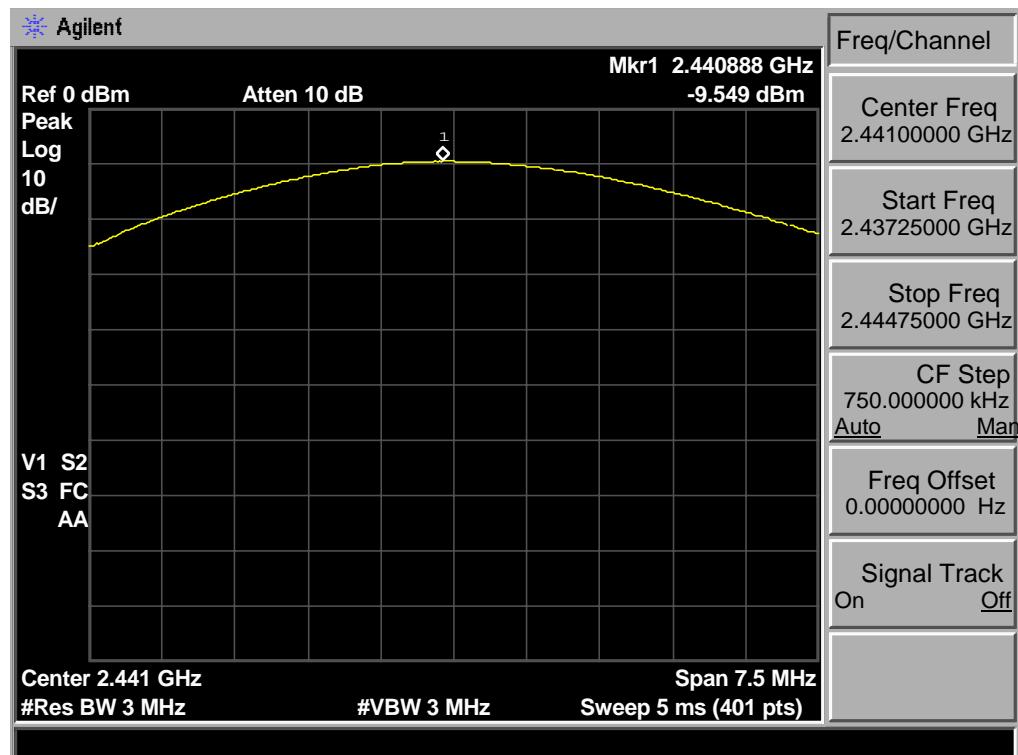
$\pi/4$ -DQPSK 2402MHz **$\pi/4$ -DQPSK 2441MHz**

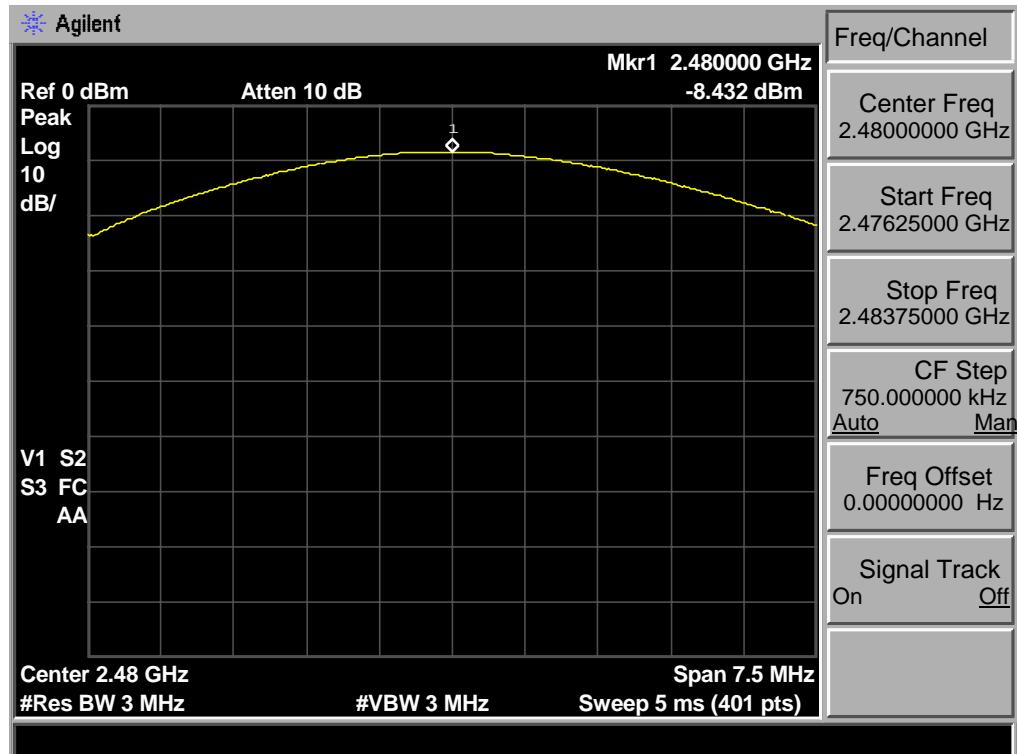
$\pi/4$ -DQPSK 2480MHz

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

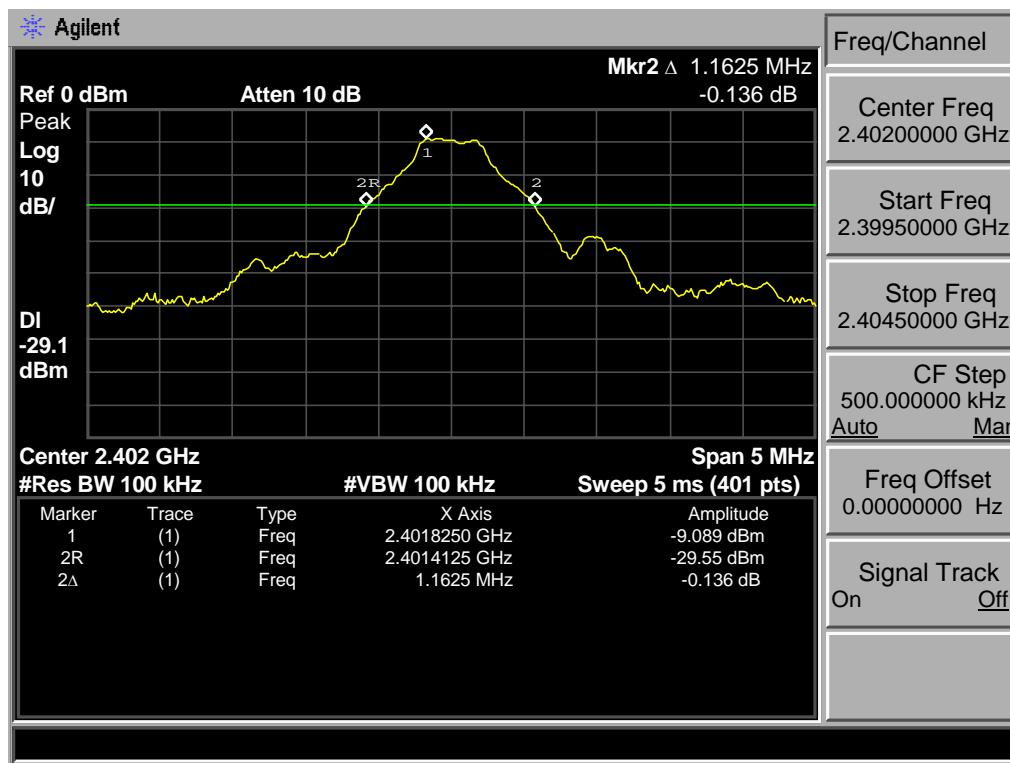
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

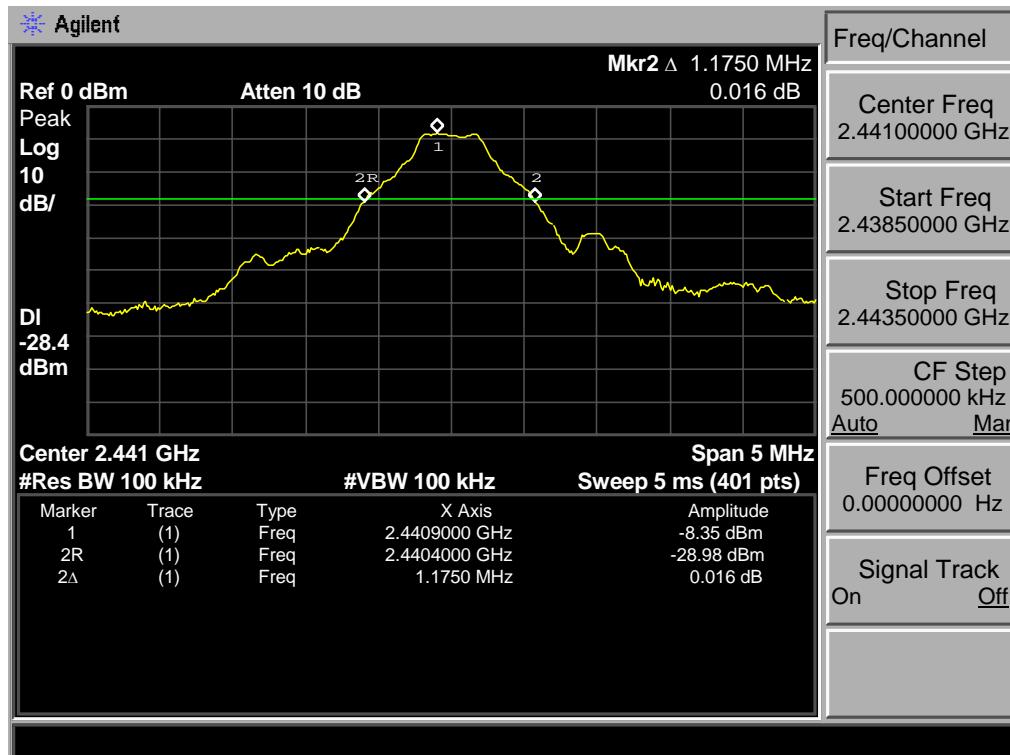
EUT: Transactive Air M/N:LGAC				
Test date: 2012-7-9		Test site: RF site	Tested by: Tony Tang	
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
GFSK	2402	1.1625	/	PASS
	2441	1.1750	/	PASS
	2480	1.1625	/	PASS
$\pi/4$ -DQPSK	2402	1.4125	/	PASS
	2441	1.4250	/	PASS
	2480	1.4000	/	PASS
8-DPSK	2402	1.4000	/	PASS
	2441	1.3875	/	PASS
	2480	1.3875	/	PASS

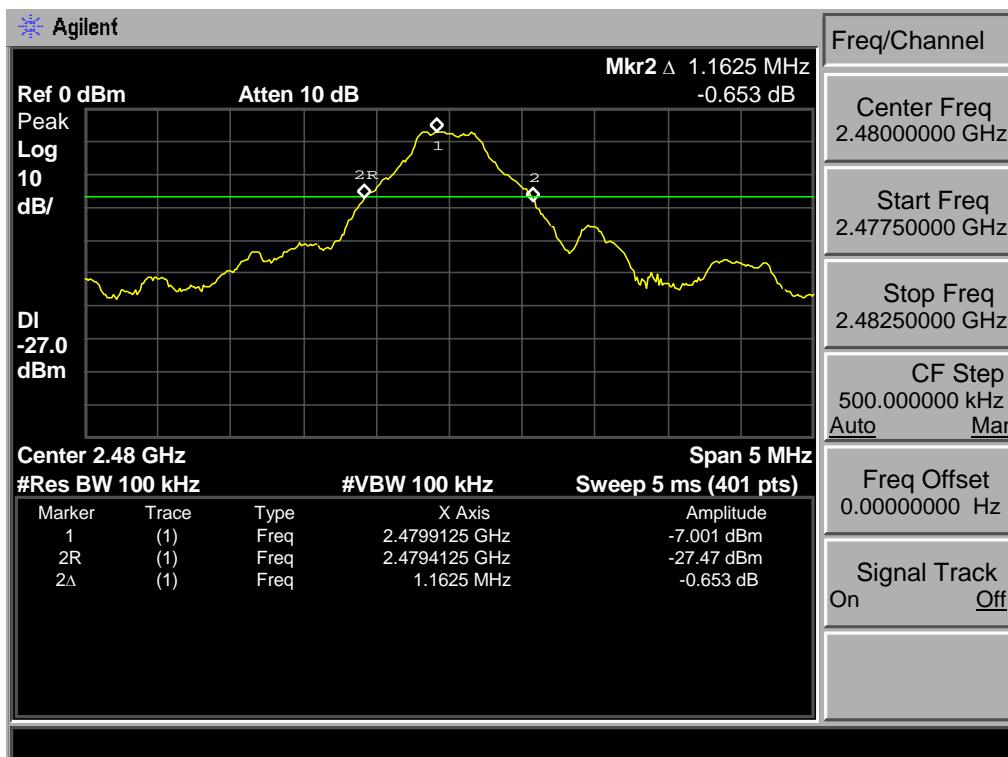
4.4. Test Data

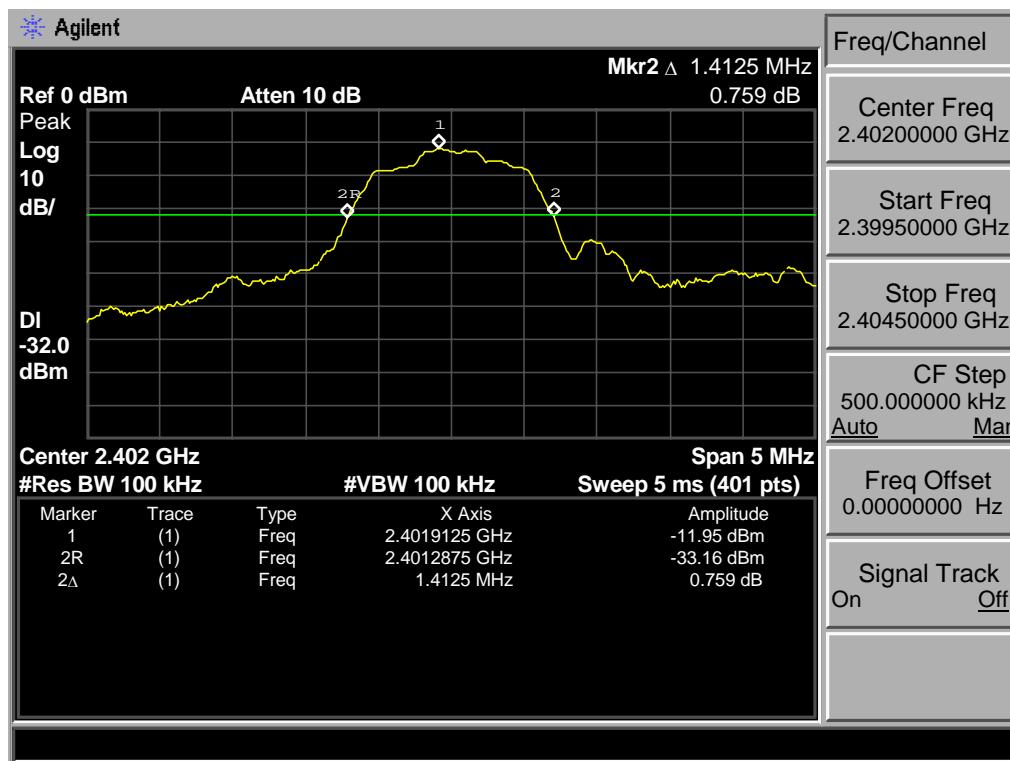
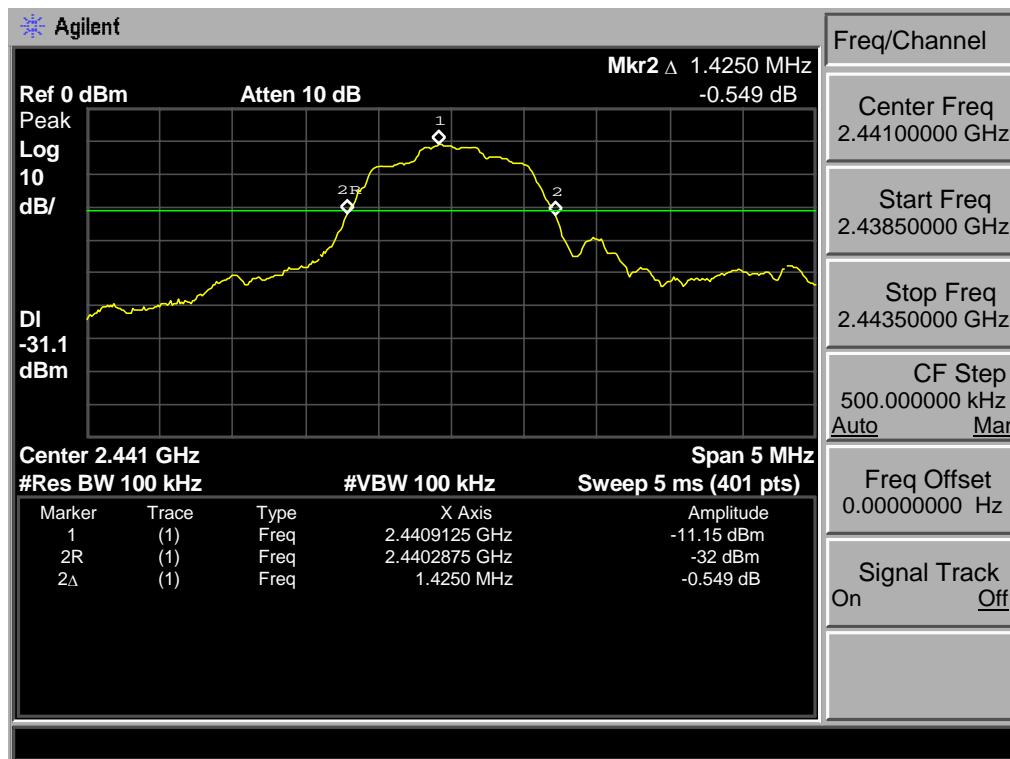
GFSK 2402MHz

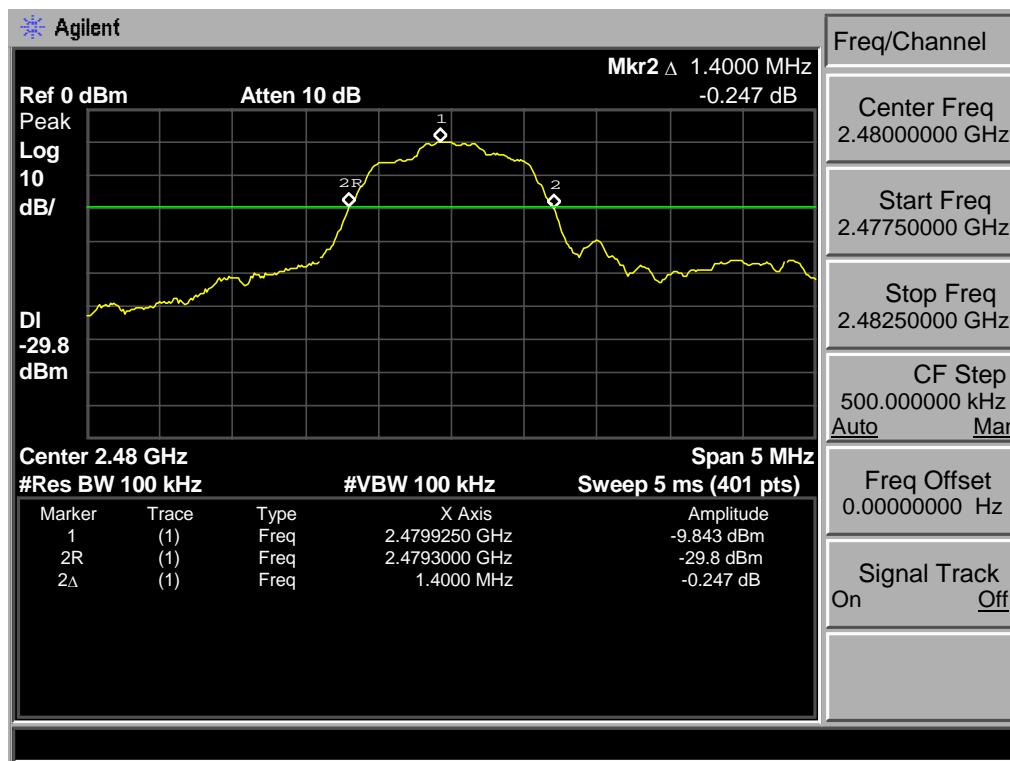


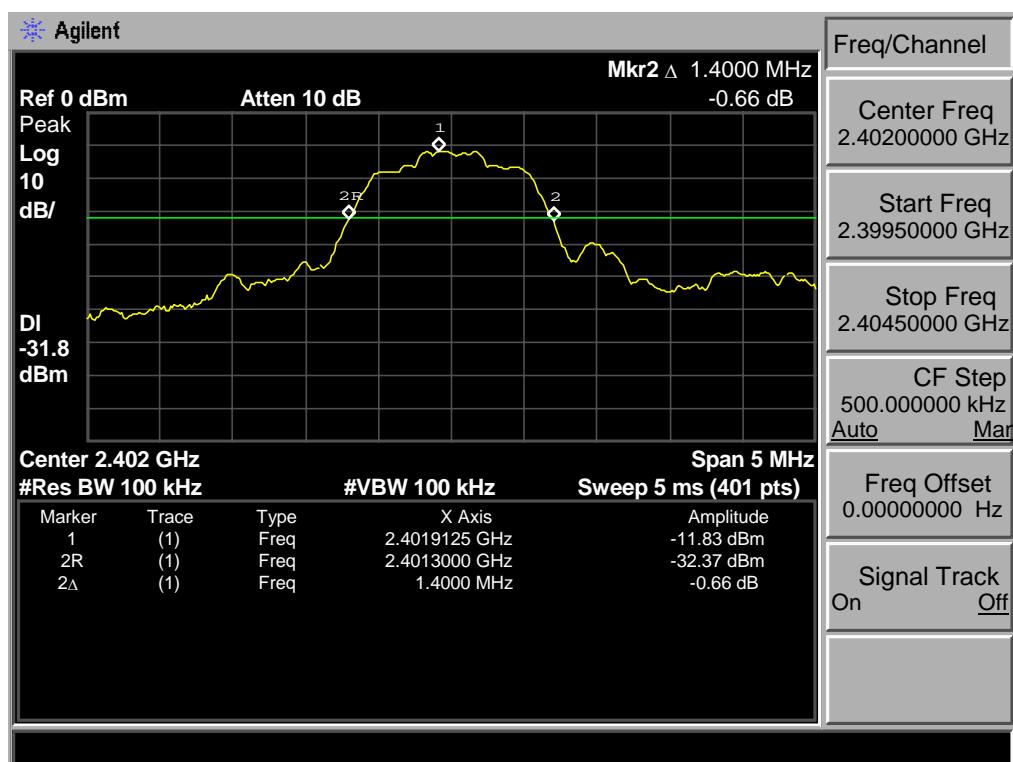
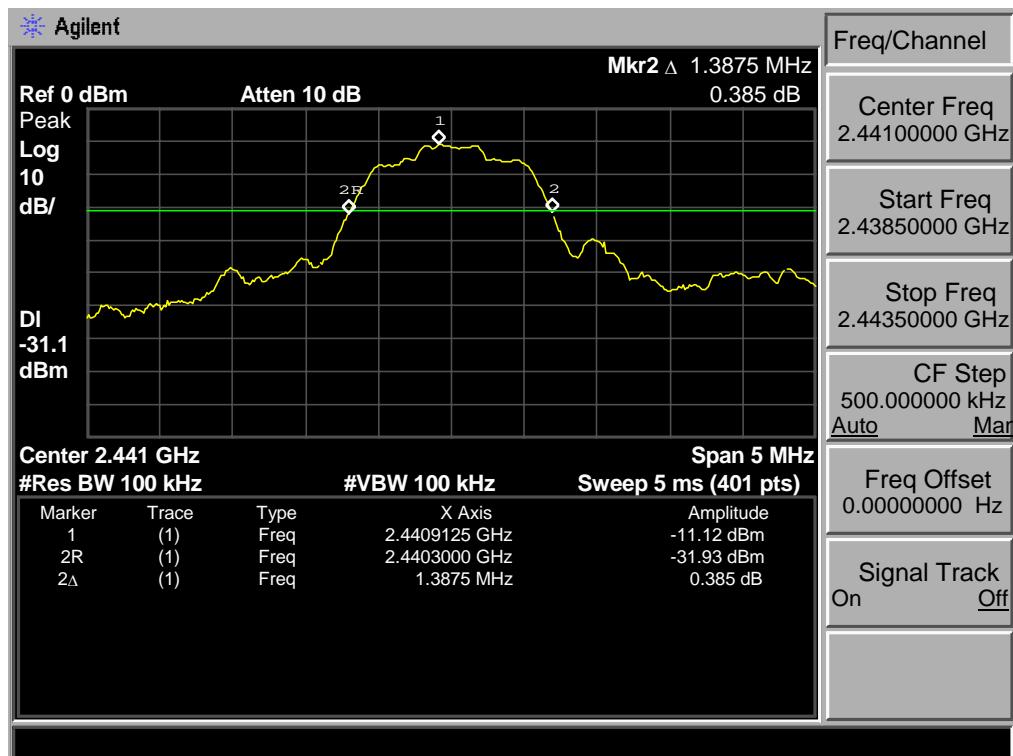
GFSK 2441MHz

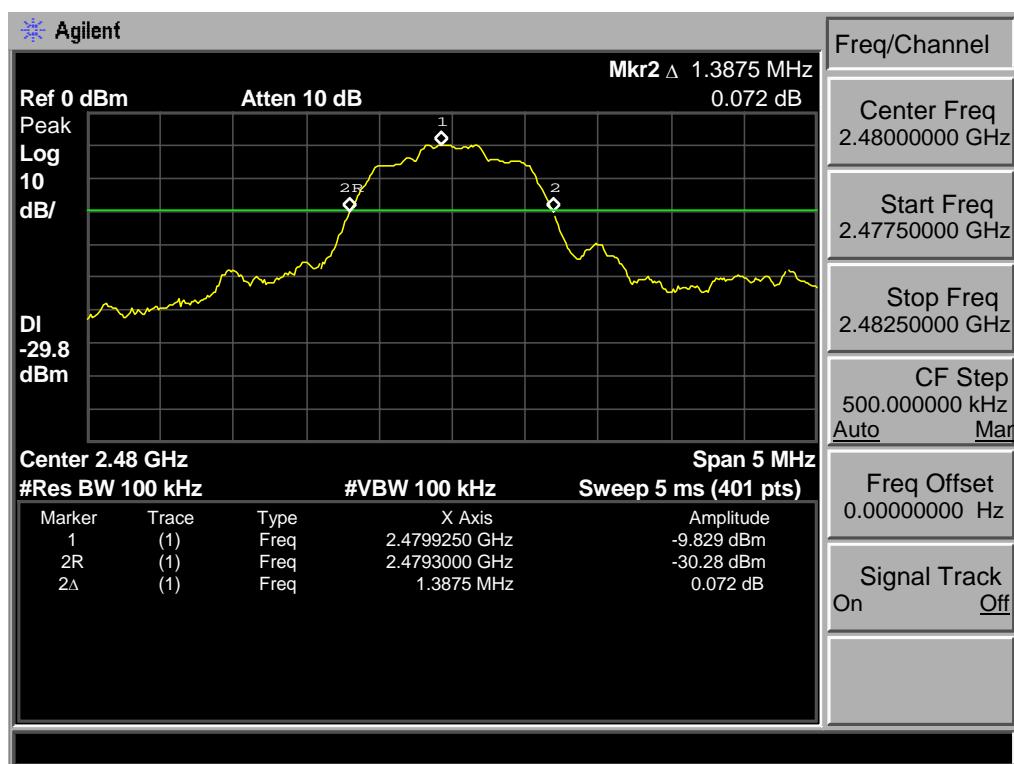


GFSK 2480MHz

$\pi/4$ -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

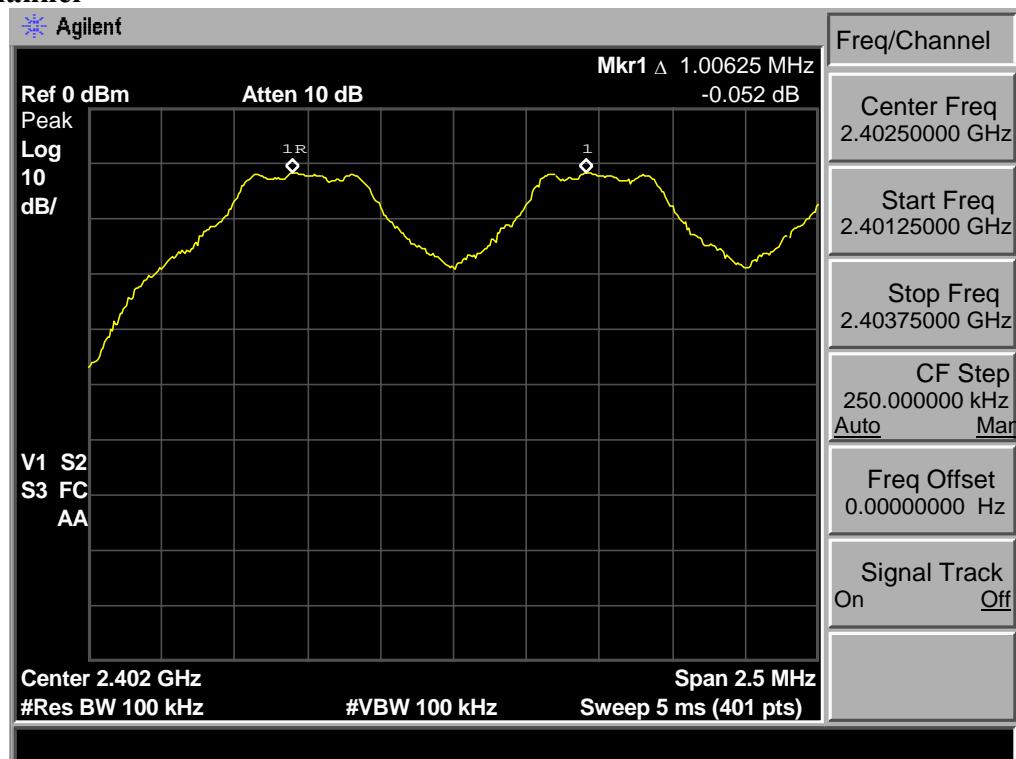
The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

5.3. Test Result

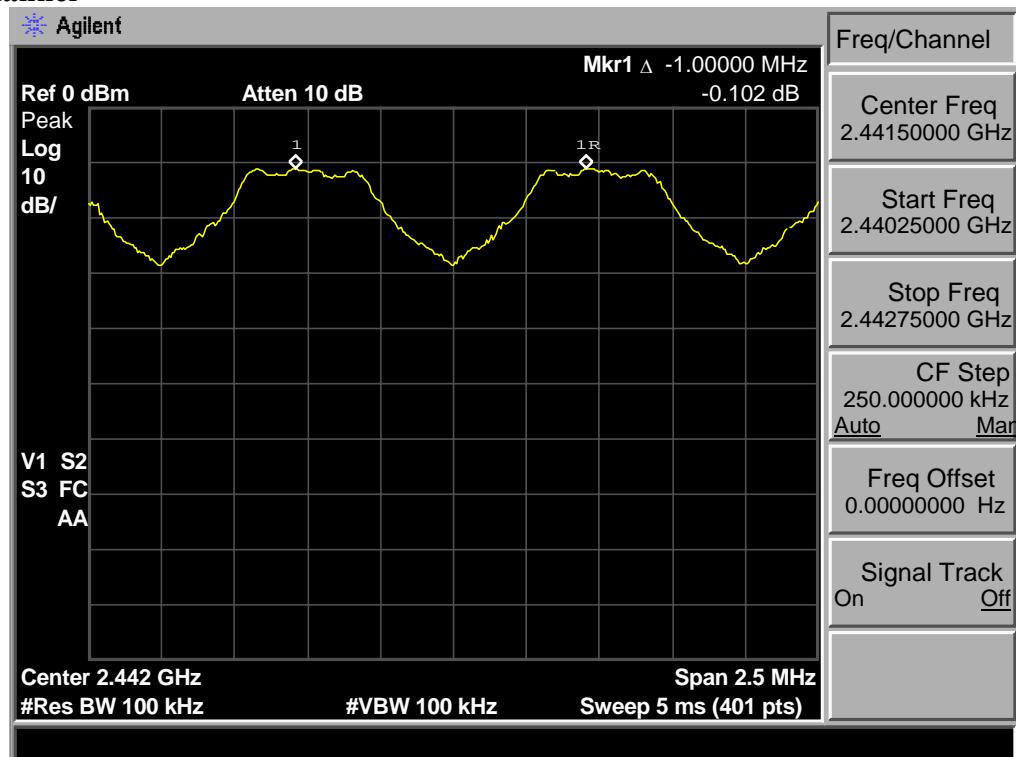
EUT: Transactive Air M/N:LGAC			Test site: RF site	Tested by: Tony Tang
Mode	Channel	Channel separation (MHz)	Limit	Conclusion
GFSK	Low CH	1.0062	> 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater)	PASS
	Mid CH	1.0000		PASS
	High CH	1.0000		PASS
$\pi/4$ -DQPS	Low CH	1.0000	> 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater)	PASS
	Mid CH	1.0000		PASS
	High CH	1.0000		PASS
8-DPSK	Low CH	1.0062	> 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater)	PASS
	Mid CH	1.0062		PASS
	High CH	1.0000		PASS

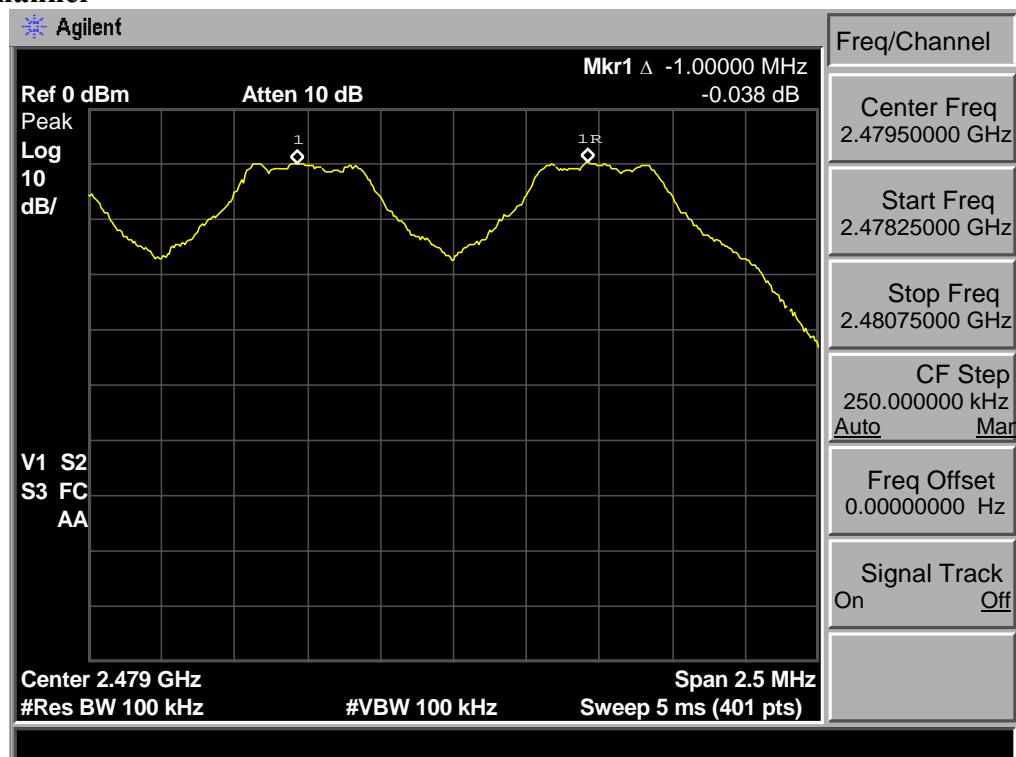
5.4. Test Data

GFSK Low Channel

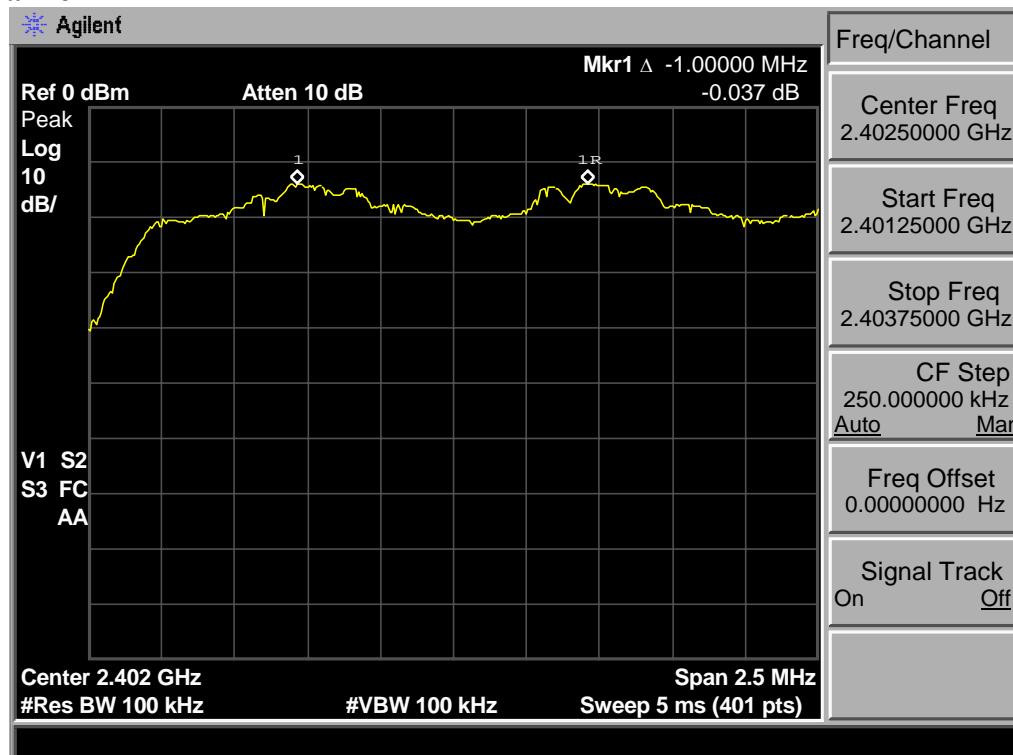


Mid Channel

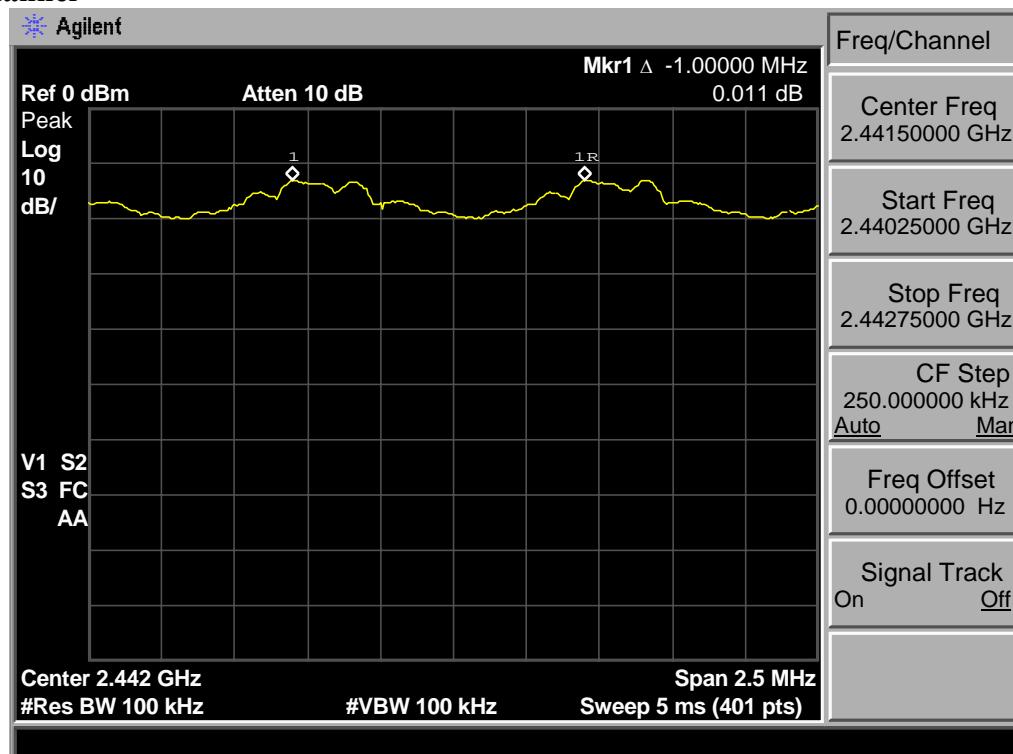


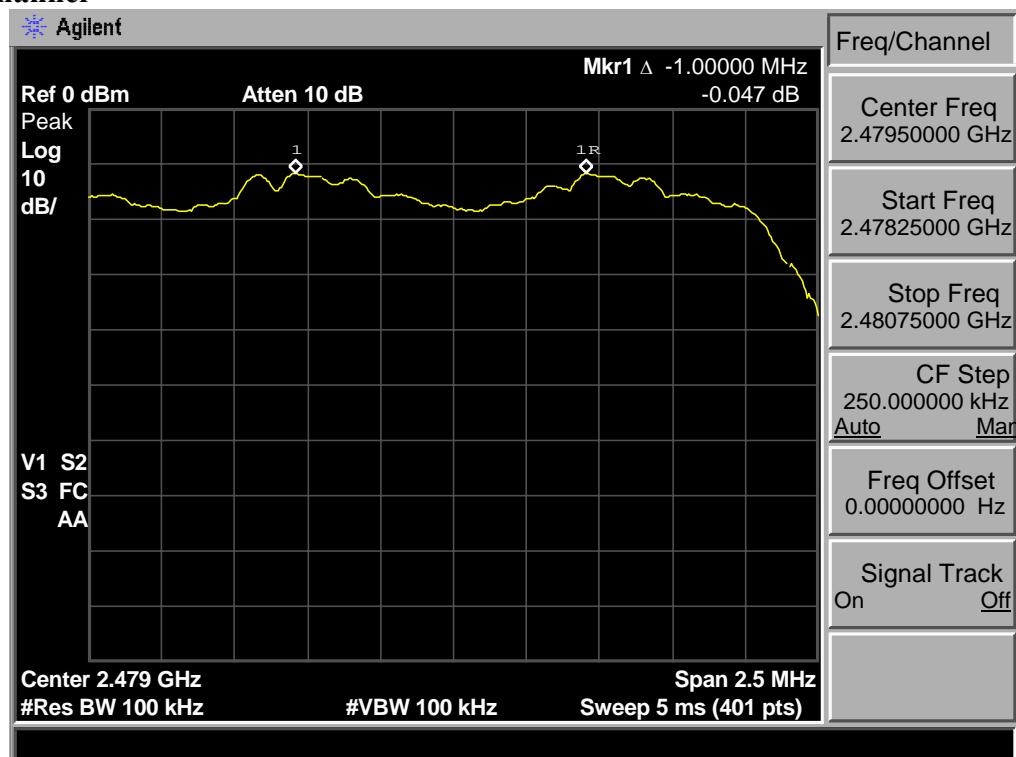
High Channel

$\pi/4$ -DQPSK
Low Channel



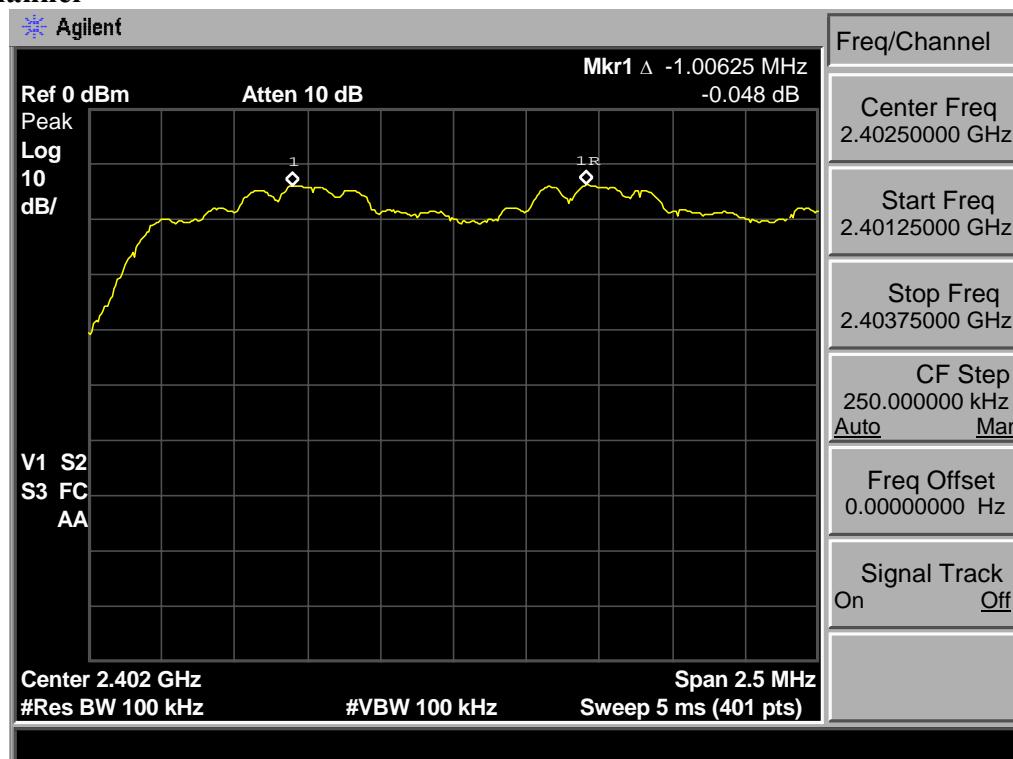
Mid Channel



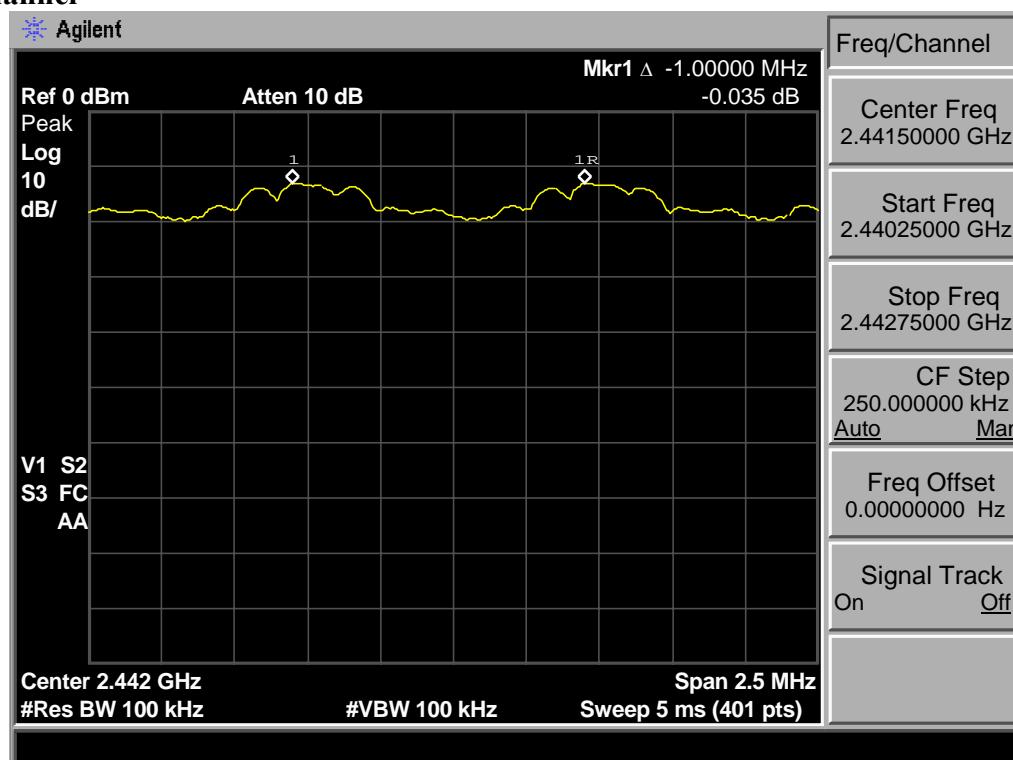
High Channel

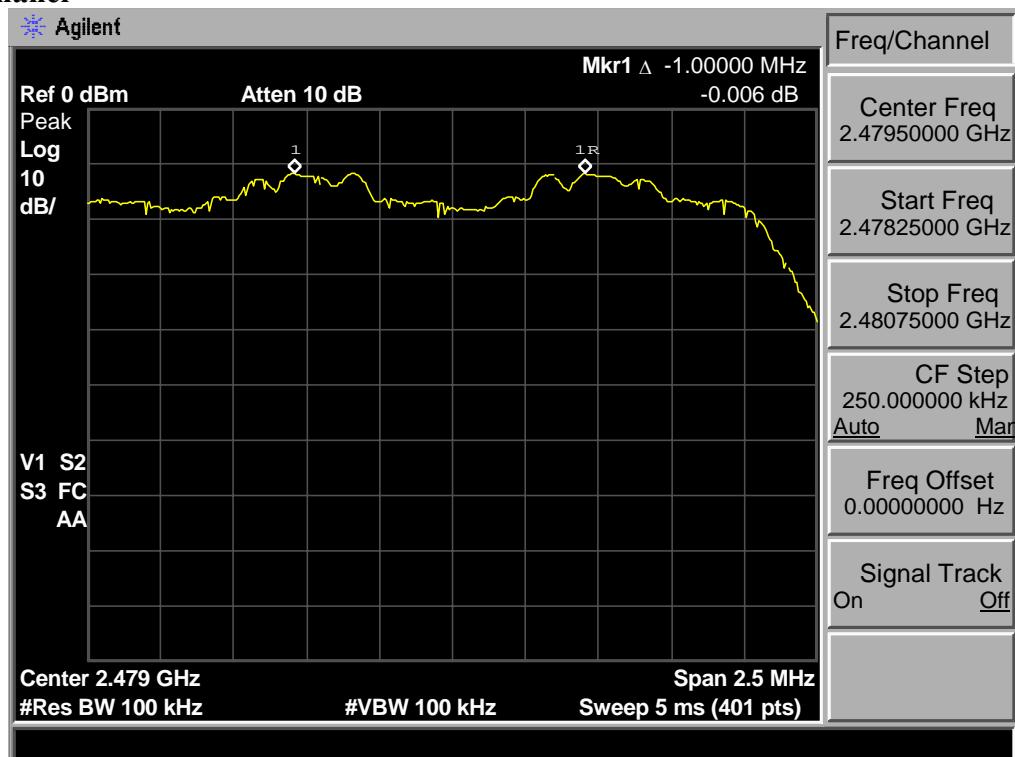
8-DPSK

Low Channel



Mid Channel



High Chanel

6. NUMBER OF HOPPING CHANNEL

6.1. Limit

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

6.2. Test Procedure

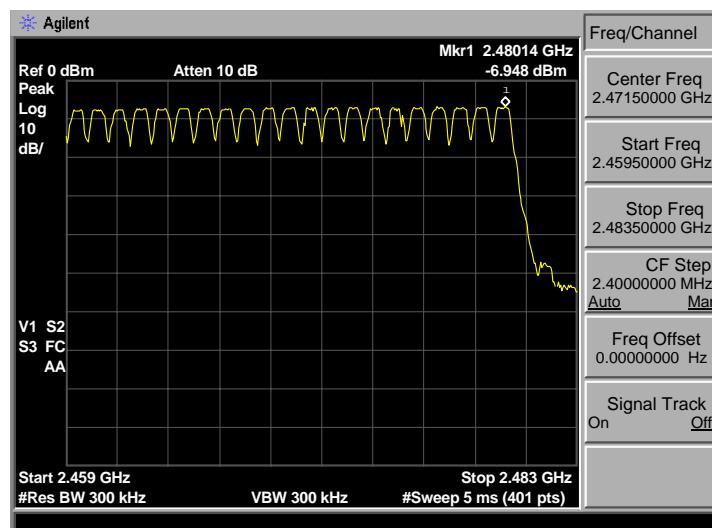
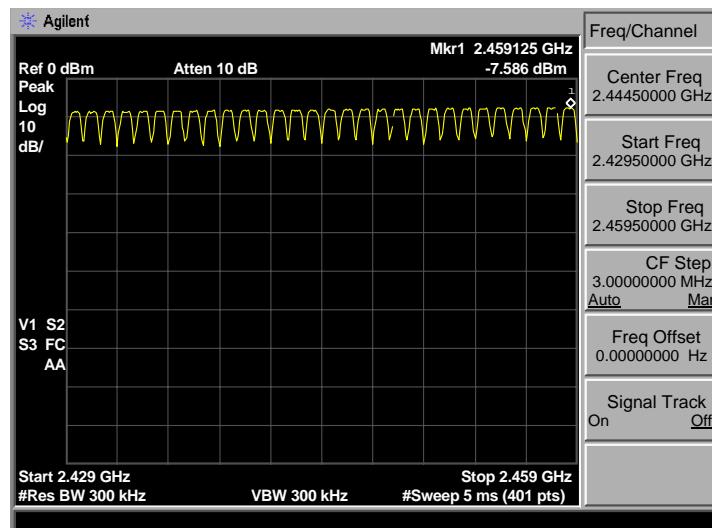
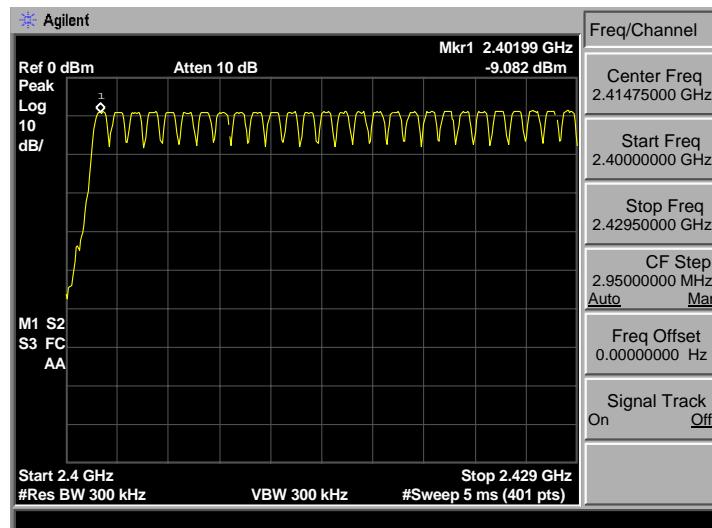
The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

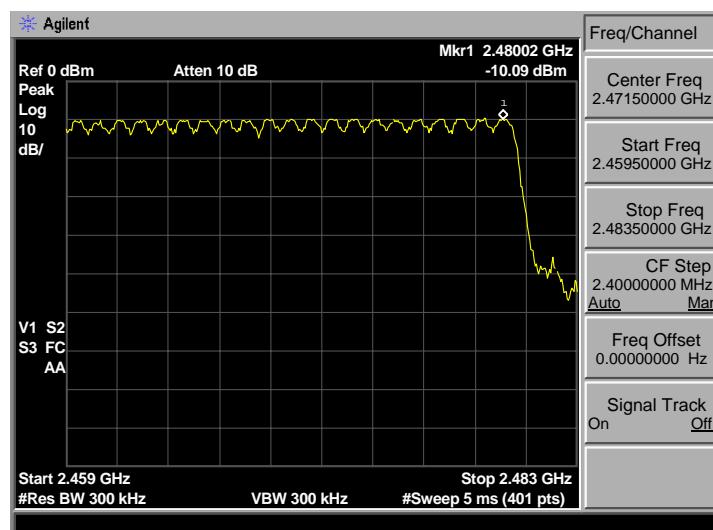
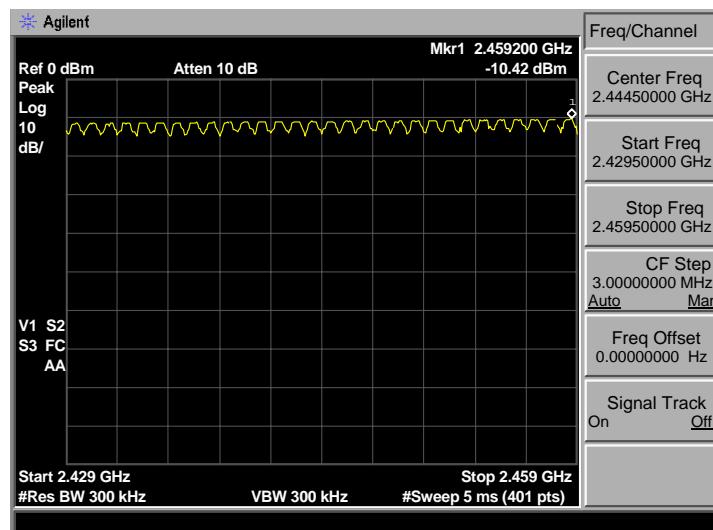
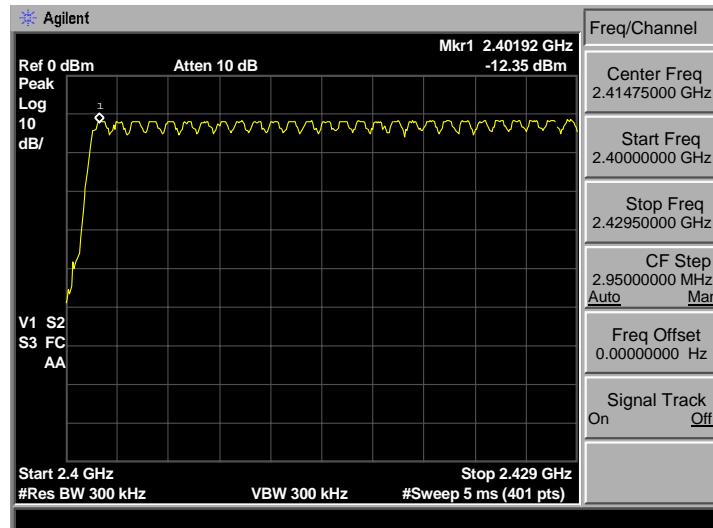
6.3. Test Result

EUT: Penscanner M/N:LGAC			
Test date: 2012-7-13		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

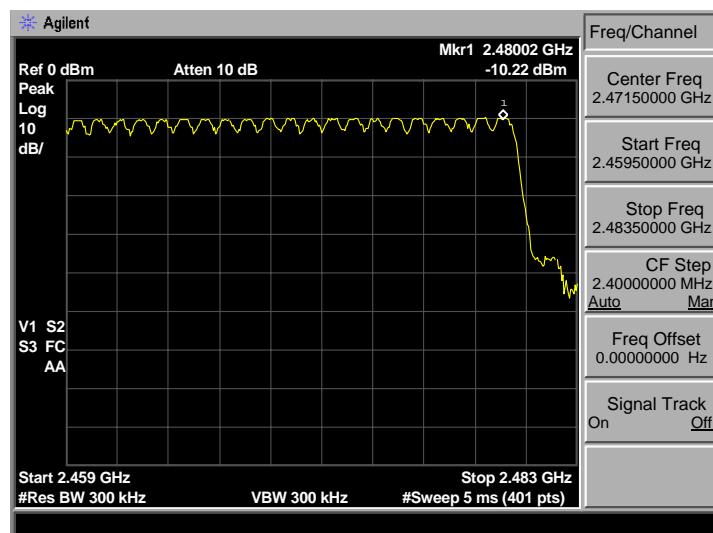
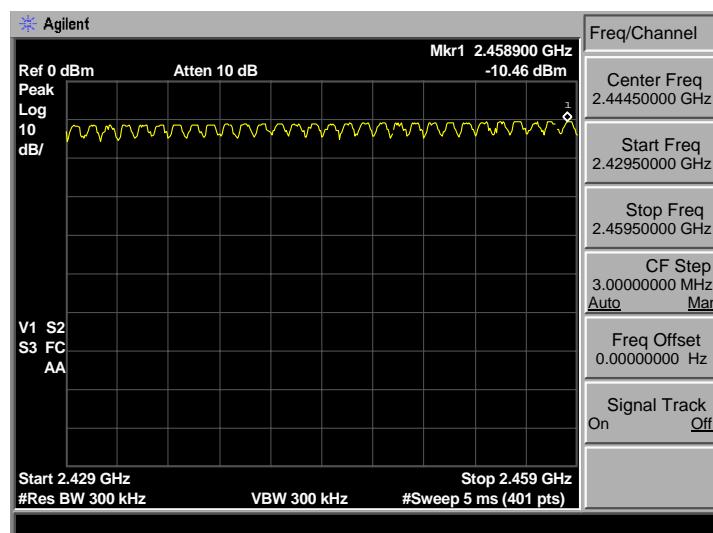
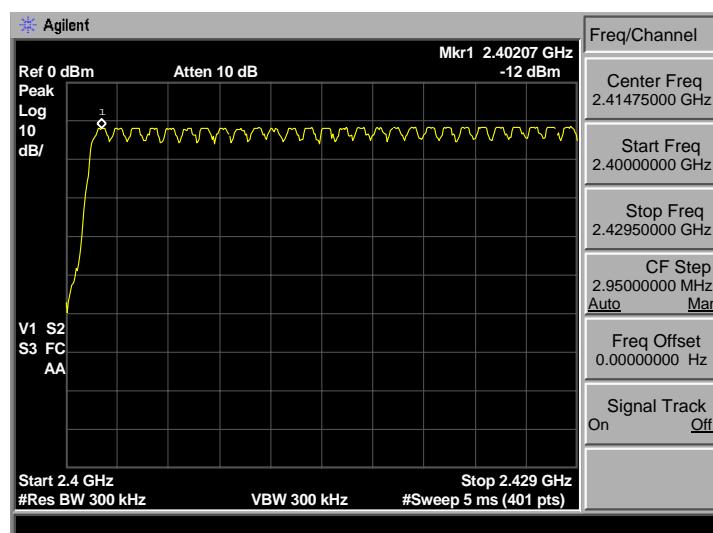
6.4. Test Data

GFSK



$\pi/4$ DQPSK

8-DPSK



7. DWELL TIME

7.1. Limit

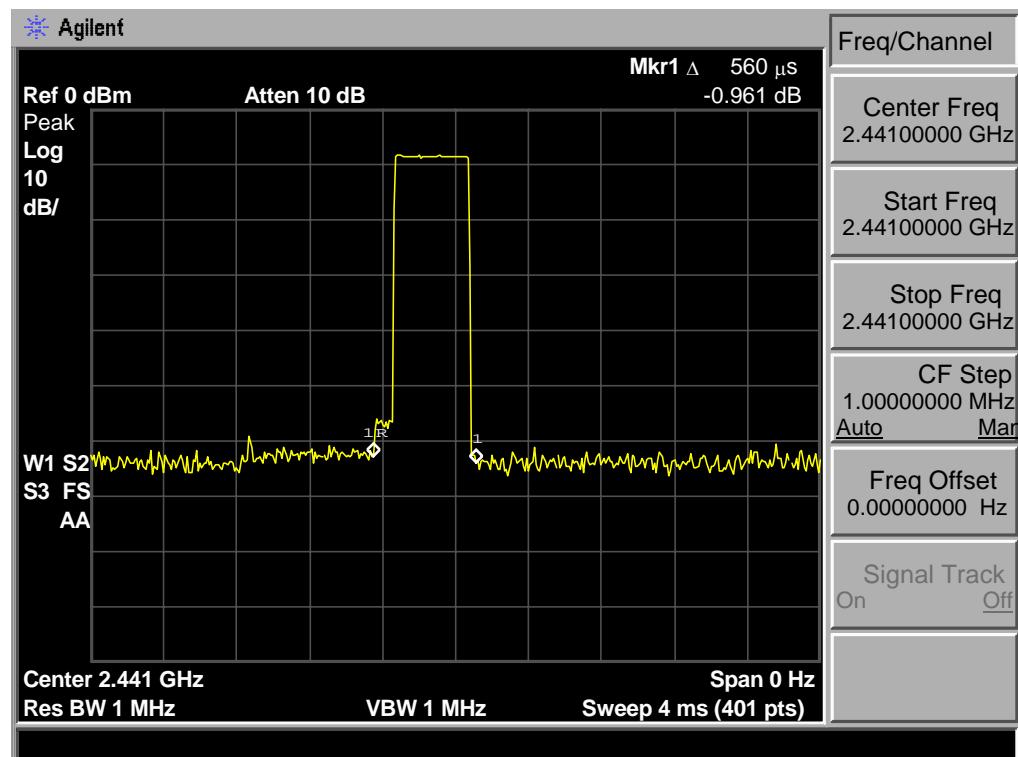
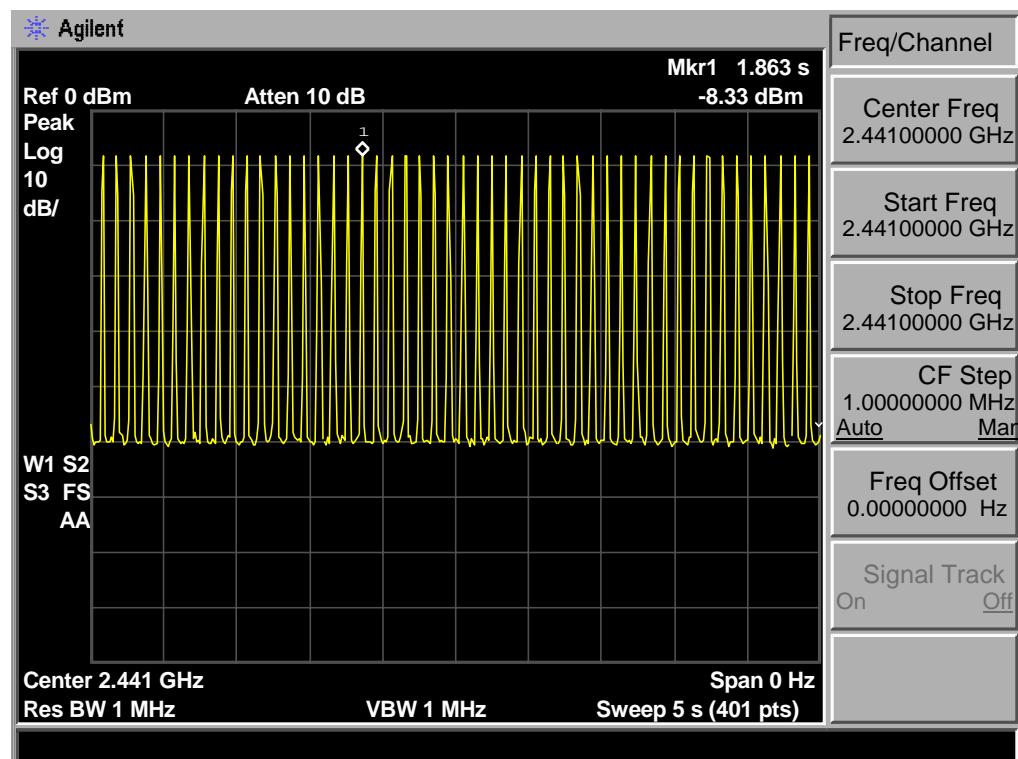
The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

7.2. Test Result

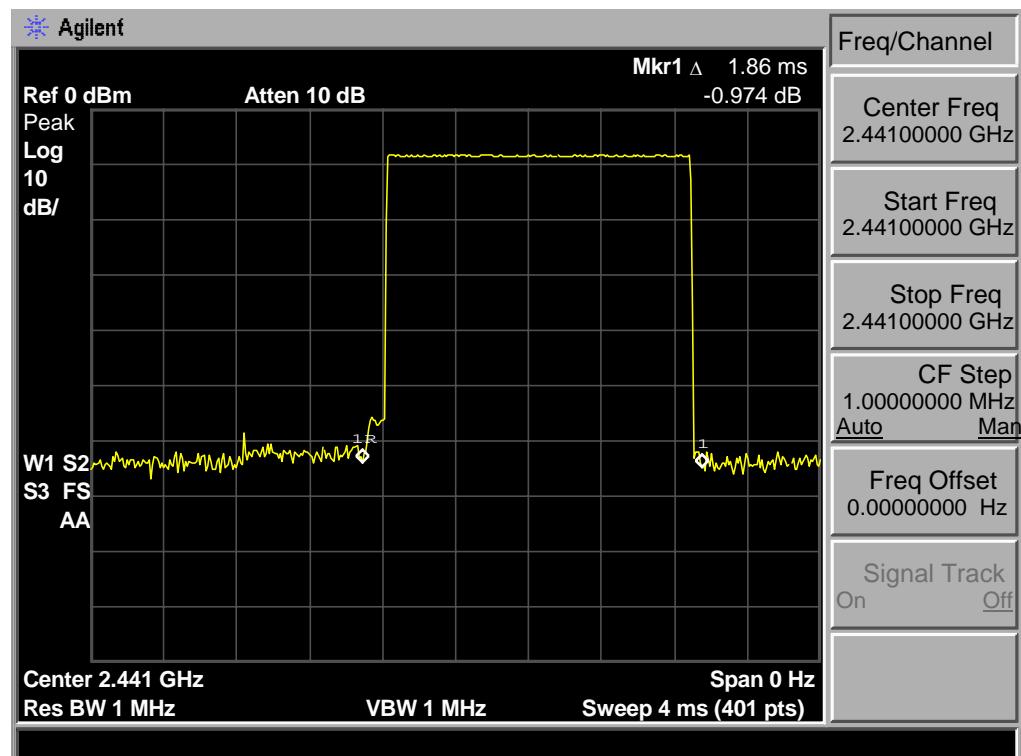
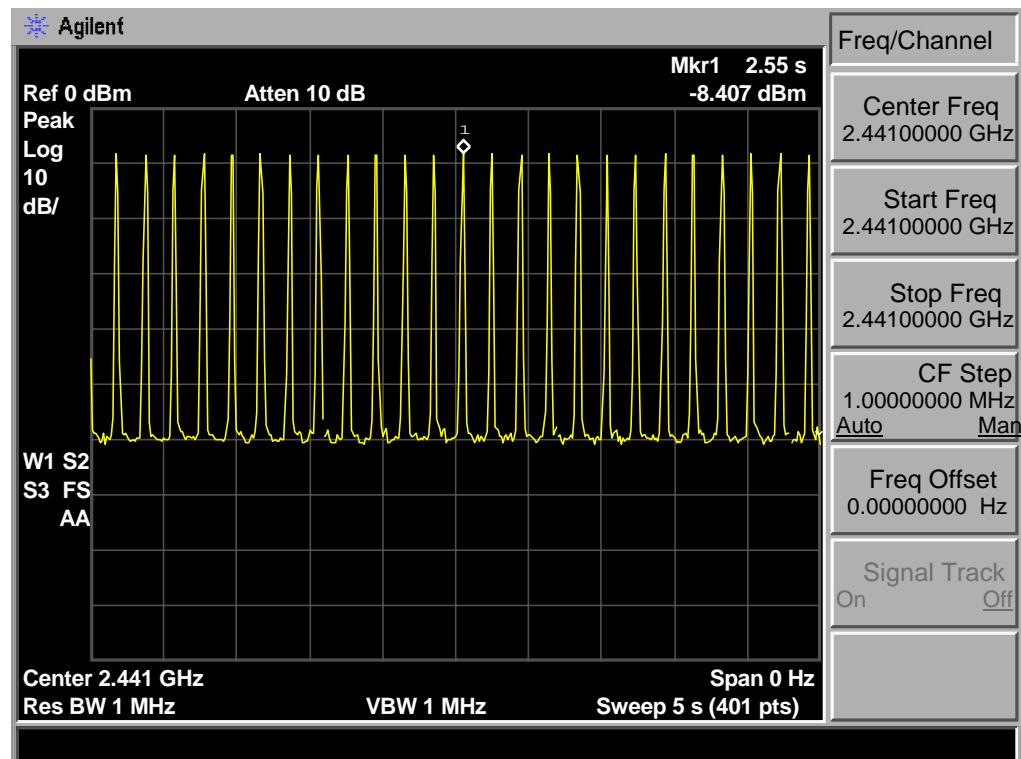
EUT: Transactive Air M/N:LGAC			
Test date: 2012-7-13		Test site: RF site	Tested by: Tony Tang
Mode	Dwell time	Limit	Conclusion
GFSK DH1	176.96	<400ms	PASS
GFSK DH3	293.88	<400ms	PASS
GFSK DH5	330.91	<400ms	PASS
$\pi/4$ DQPSK DH1	183.28	<400ms	PASS
$\pi/4$ DQPSK DH3	298.62	<400ms	PASS
$\pi/4$ DQPSK DH5	335.21	<400ms	PASS
8-DPSK DH1	186.44	<400ms	PASS
8-DPSK DH3	295.46	<400ms	PASS
8-DPSK DH5	330.91	<400ms	PASS

7.3. Test Data

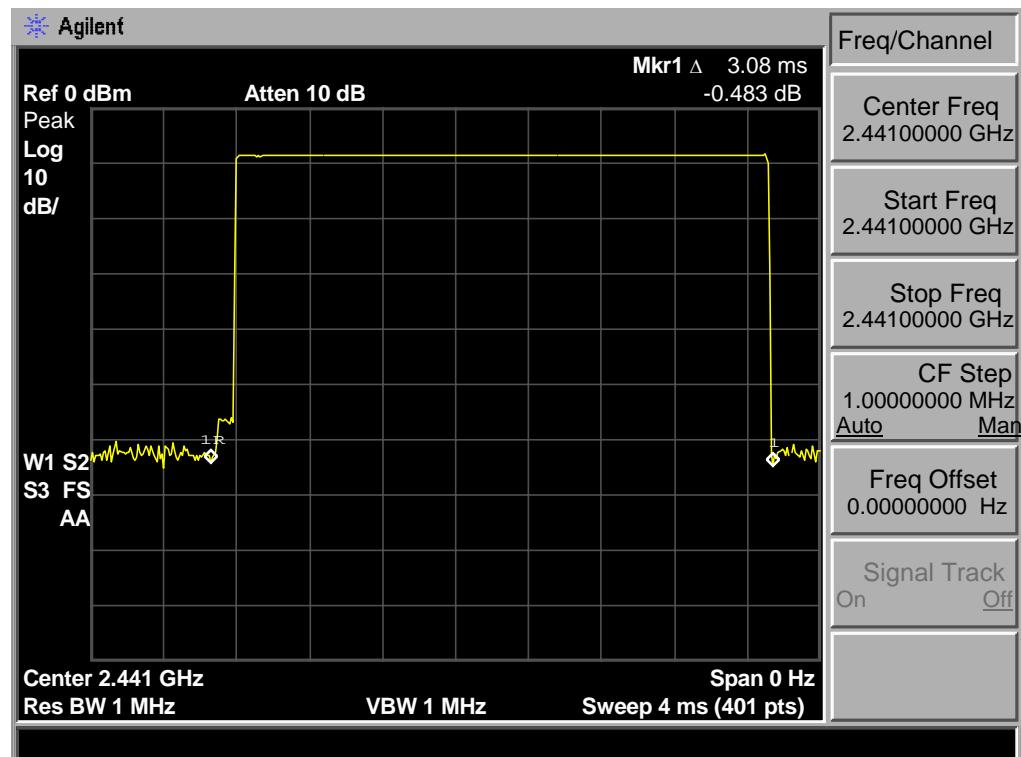
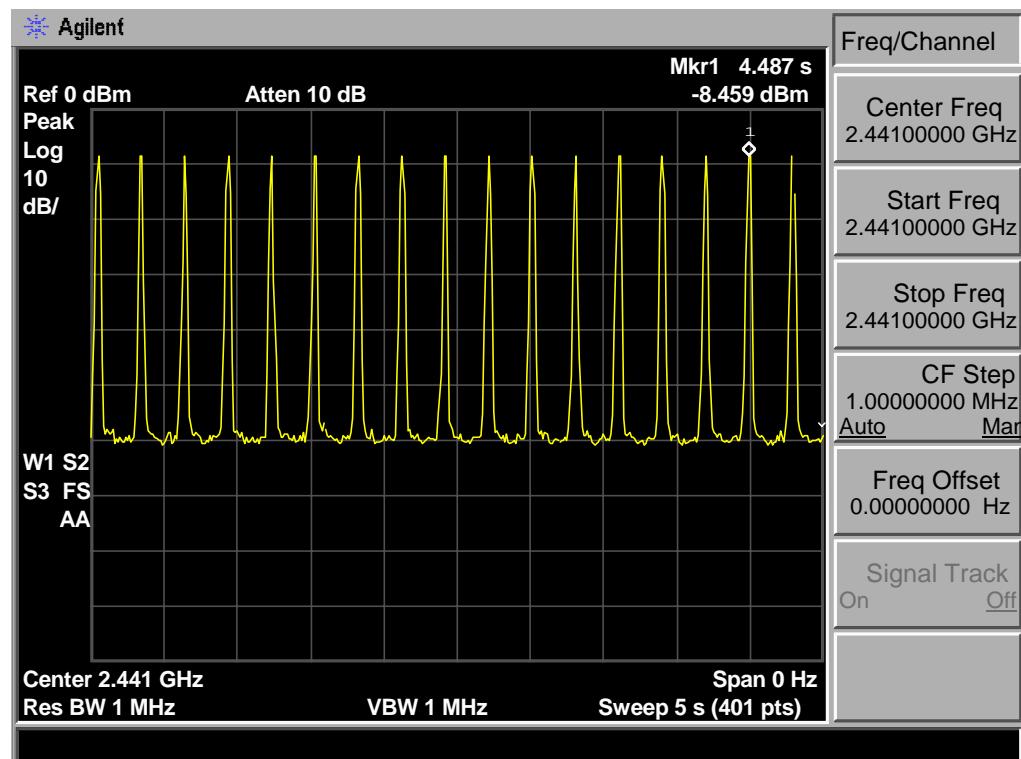
GFSK DH1 : 50hop/5s * 0.4 * 79 * 0.560ms = 176.96



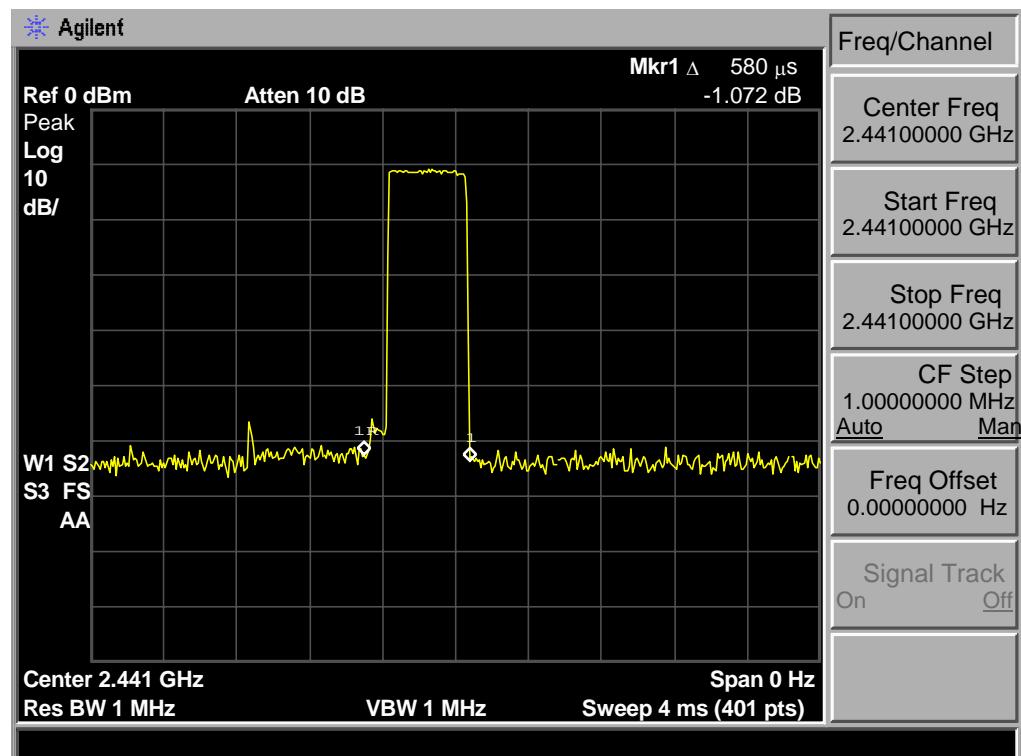
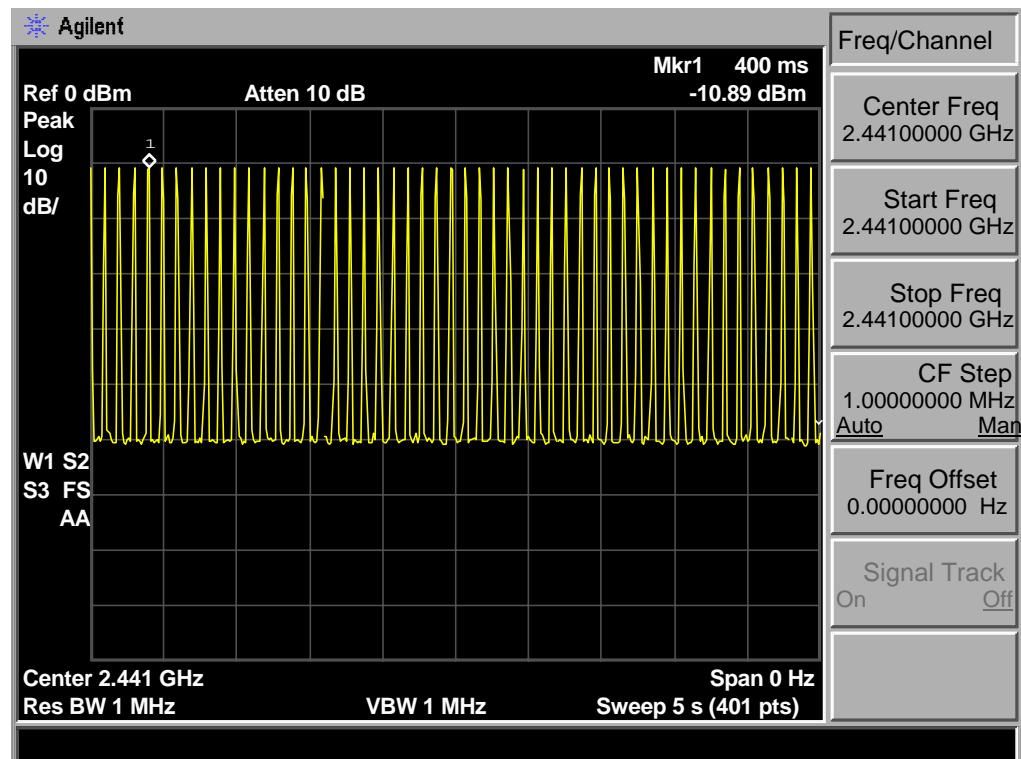
GFSK DH3 : 25hop/5s * 0.4 * 79 * 1.86ms= 293.88



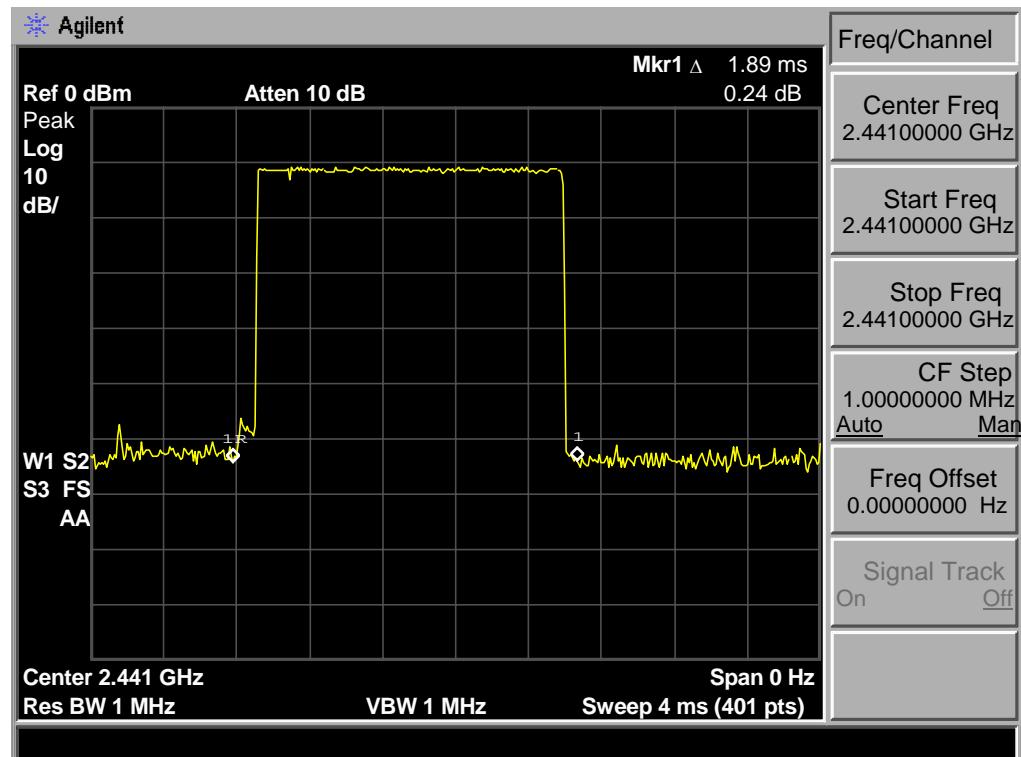
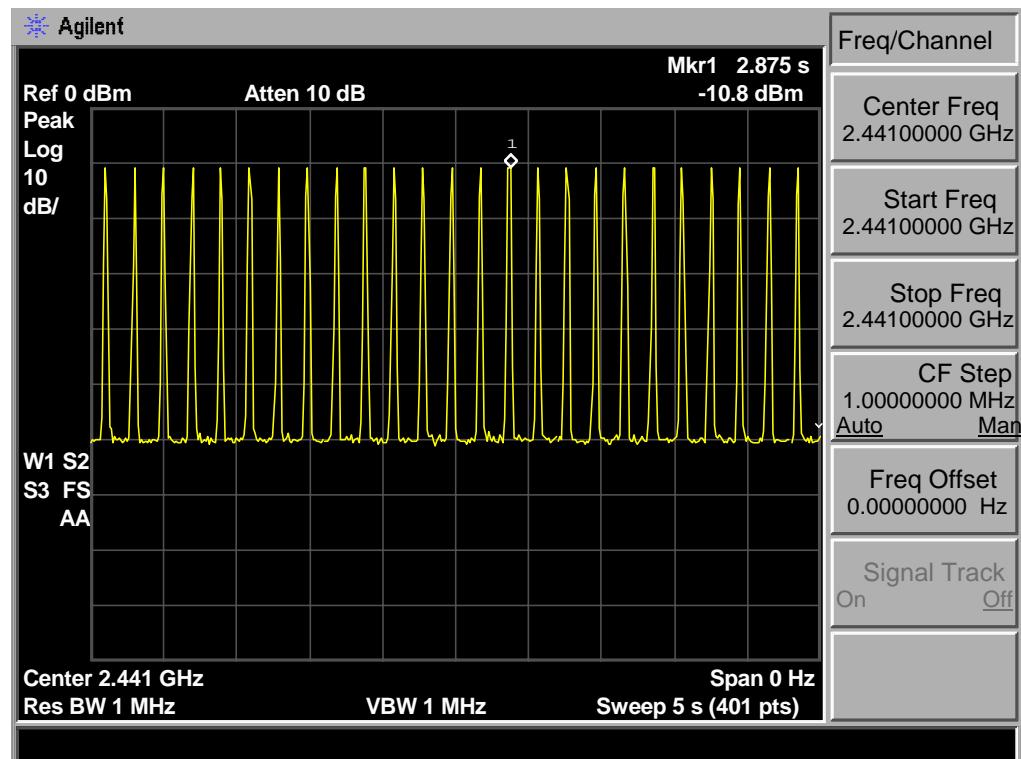
GSFK DH5 : 17hop/5s * 0.4 * 79 *3.08ms = 330.91



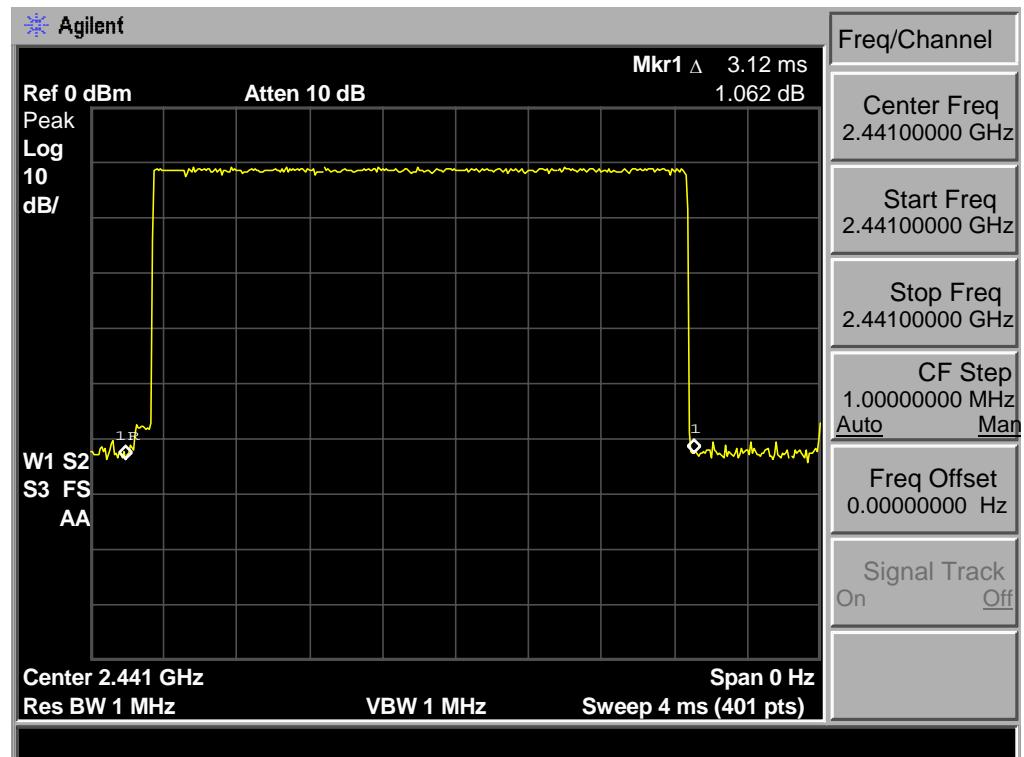
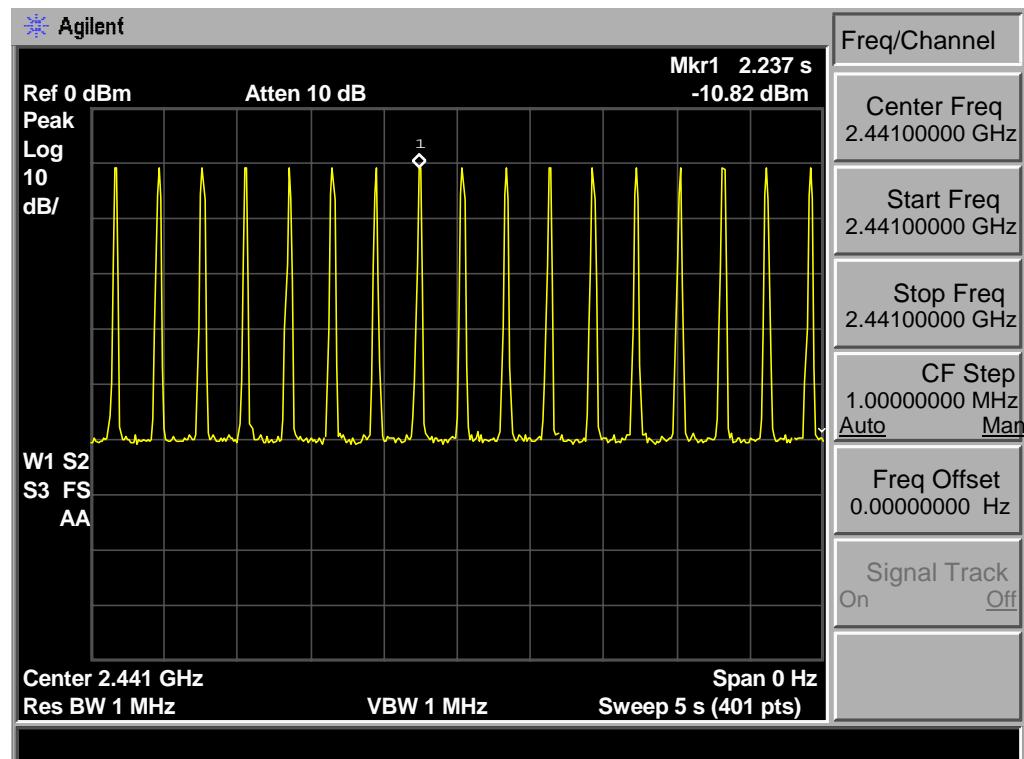
$\pi/4\text{-DQPSK DH1: } 50\text{hop}/5 * 0.4 * 79 * 0.580\text{ms} = 183.28$



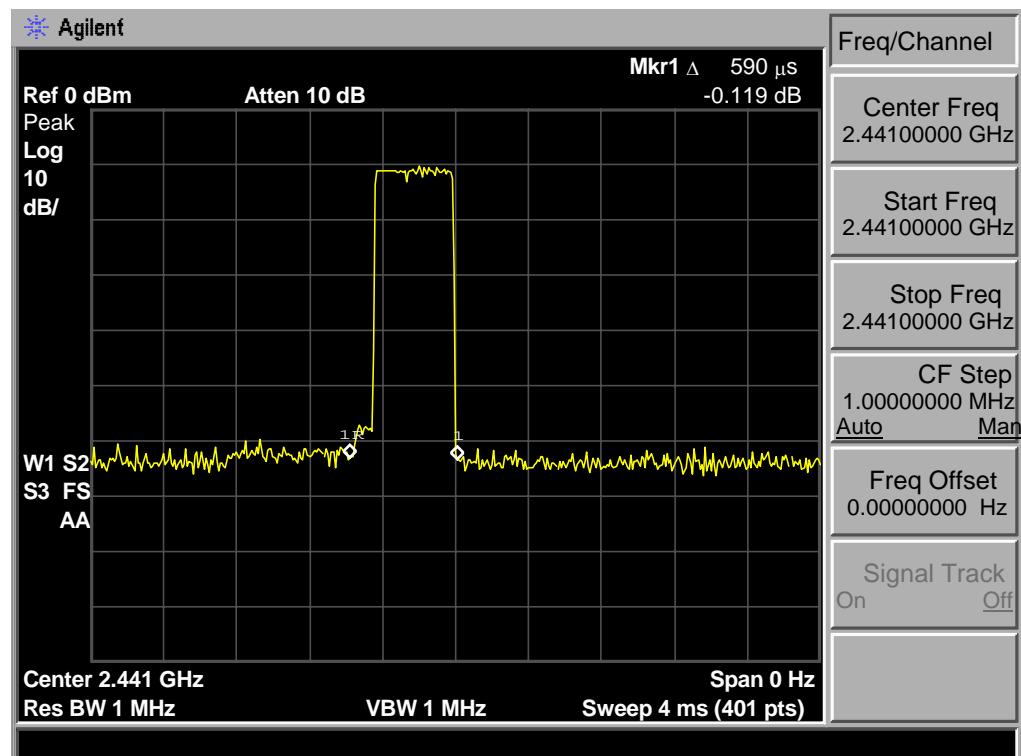
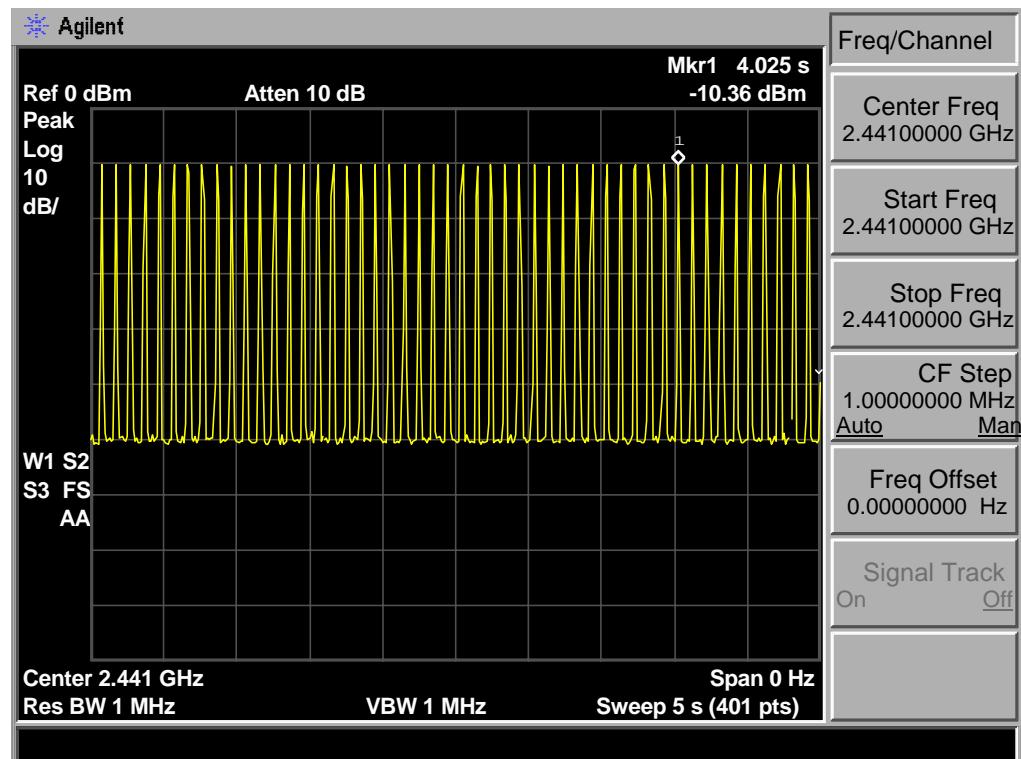
$\pi/4\text{-DQPSK DH3: } 25\text{hop}/5 * 0.4 * 79 * 1.89 = 298.62$



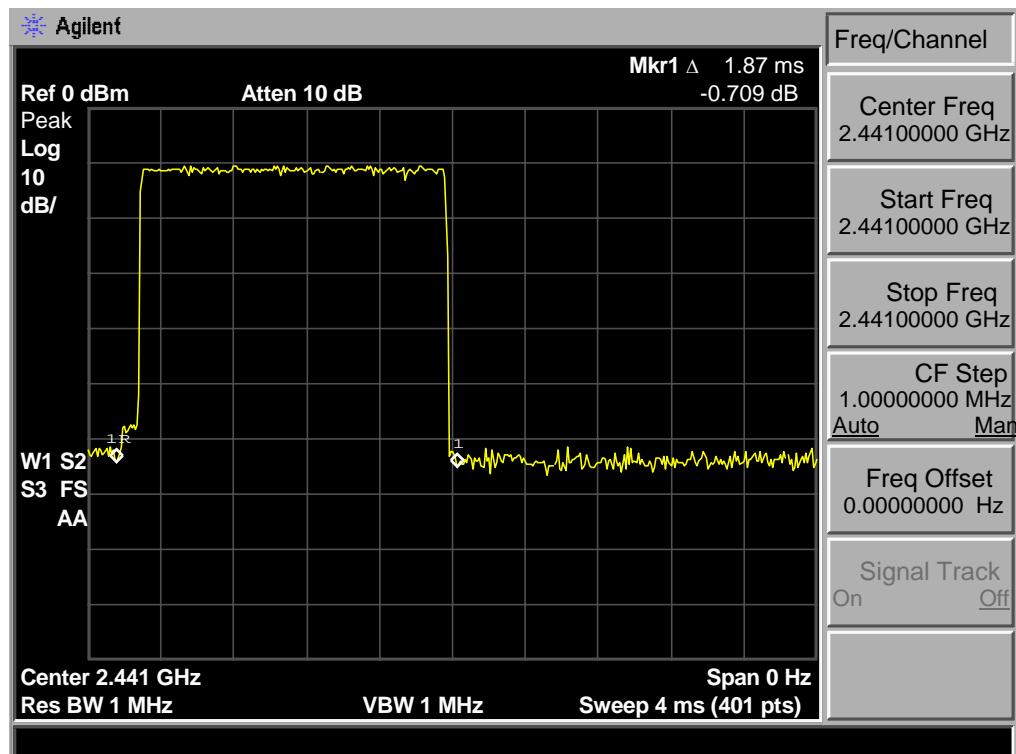
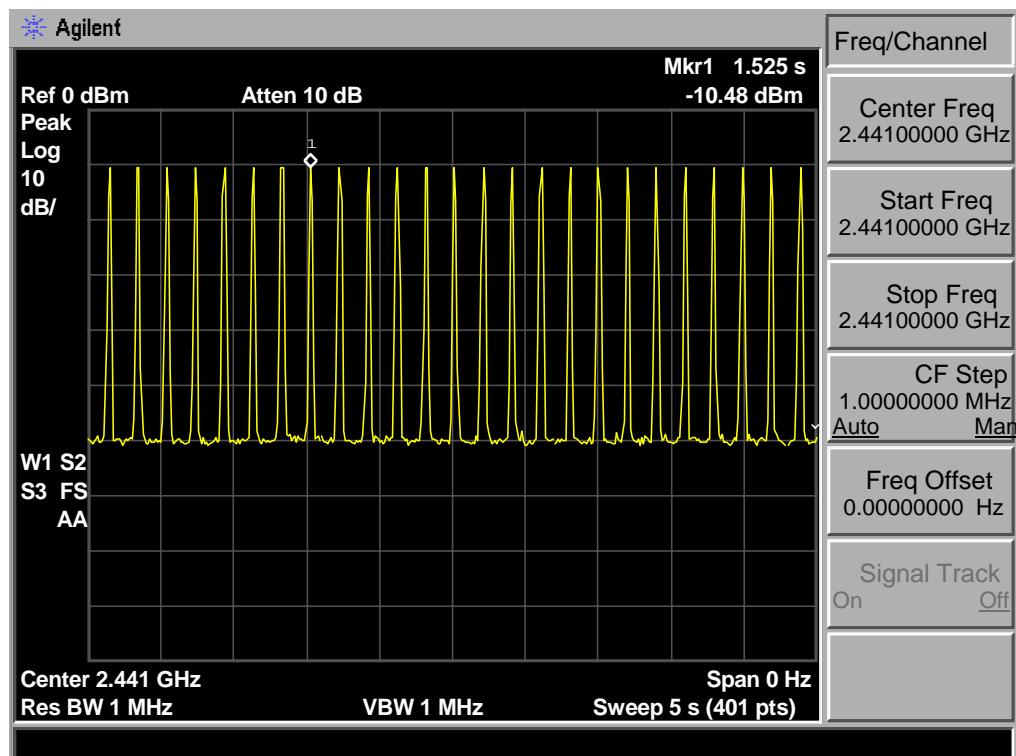
$\pi/4\text{-DQPSK DH5: } 17\text{hop}/5 * 0.4 * 79 * 3.12\text{ms} = 335.21$



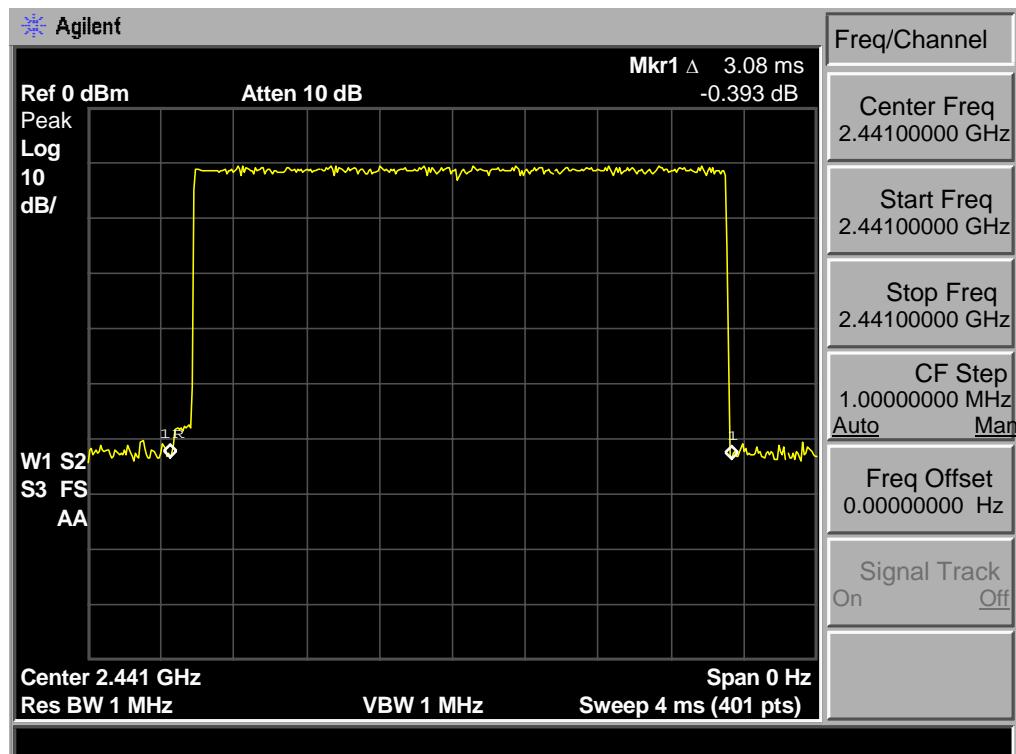
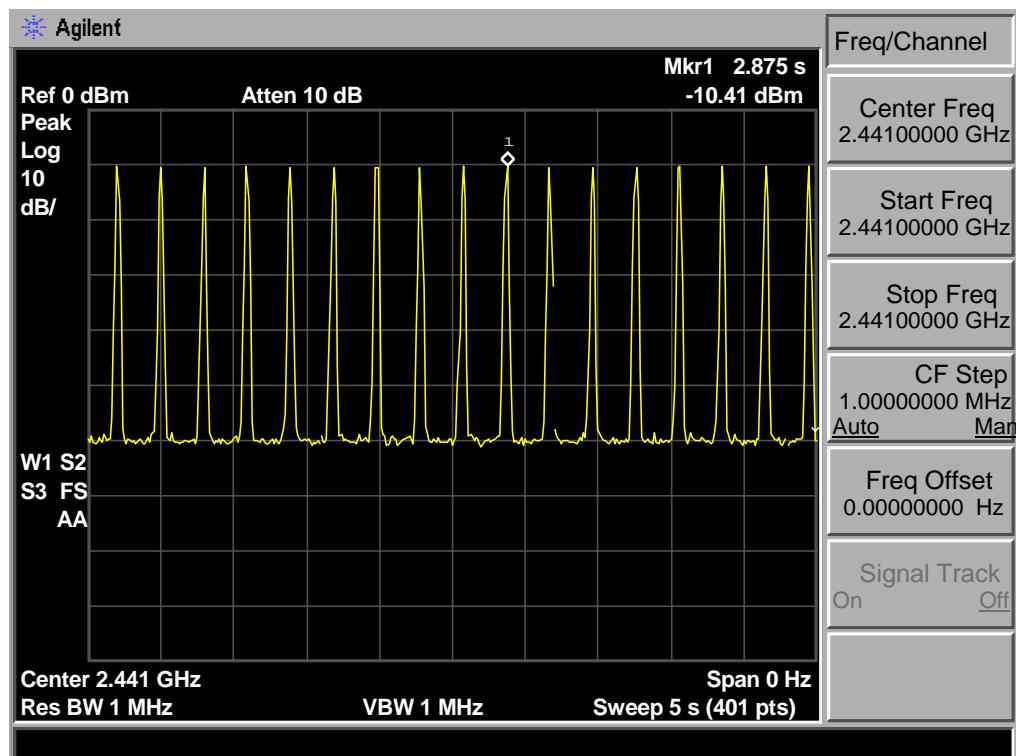
8-DPSK DH1: 50hop/5 * 0.4 * 79 * 0.590ms=186.44



8-DPSK DH3: 25/5 * 0.4 *79 *1.87ms=295.46



8-DPSK DH5: 17/5 * 0.4 *79 *3.08ms=330.91



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.

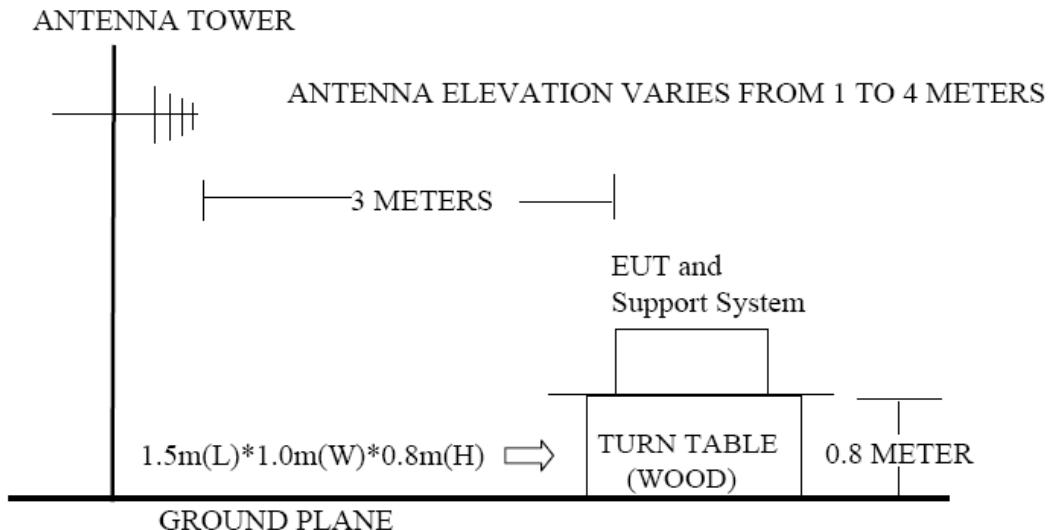
15.205 Restricted frequency band

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 antena tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

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

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

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

8.4. Test Result

30MHz—26GHz Radiated emissison Test result	
EUT: Transactive Air	M/N:LGAC
Power:AC 120V/60Hz	
Test date: 2012-7-14	Test site: 3m Chamber Tested by: Tony Tang
Test mode: Tx Mode	
Pass	

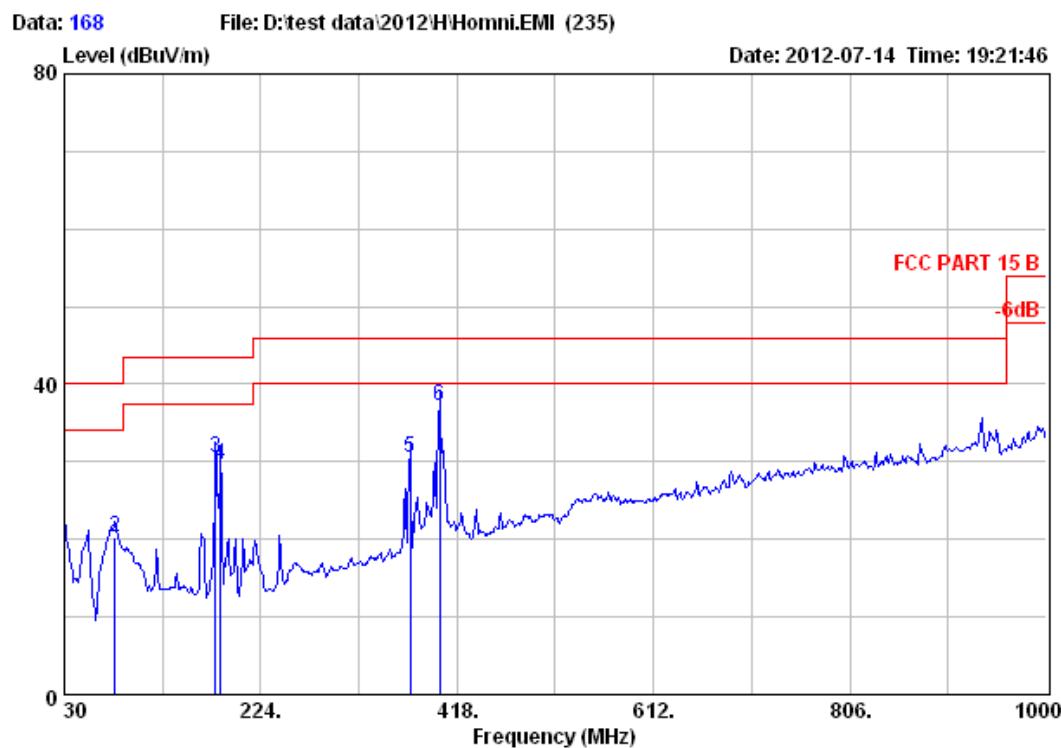
Note : If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

8.5. Test Data

30 MHz – 1000 MHz

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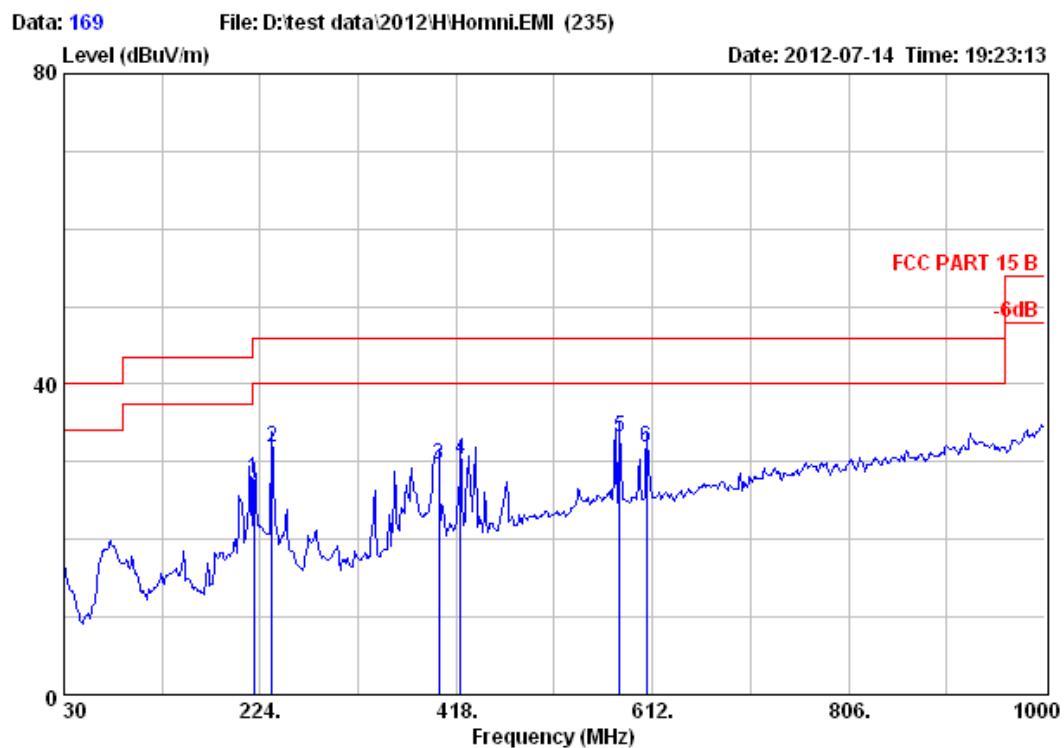


Site no. : 3m Chamber Data no. : 168
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	0.25	20.67	40.00	19.33	QP
2 80.44	7.07	2.84	10.29	20.20	40.00	19.80	QP
3 179.38	8.96	4.11	17.51	30.58	43.50	12.92	QP
4 184.23	8.57	4.18	16.80	29.55	43.50	13.95	QP
5 371.44	14.89	5.77	9.98	30.64	46.00	15.36	QP
6 400.54	16.07	5.98	15.06	37.11	46.00	8.89	QP

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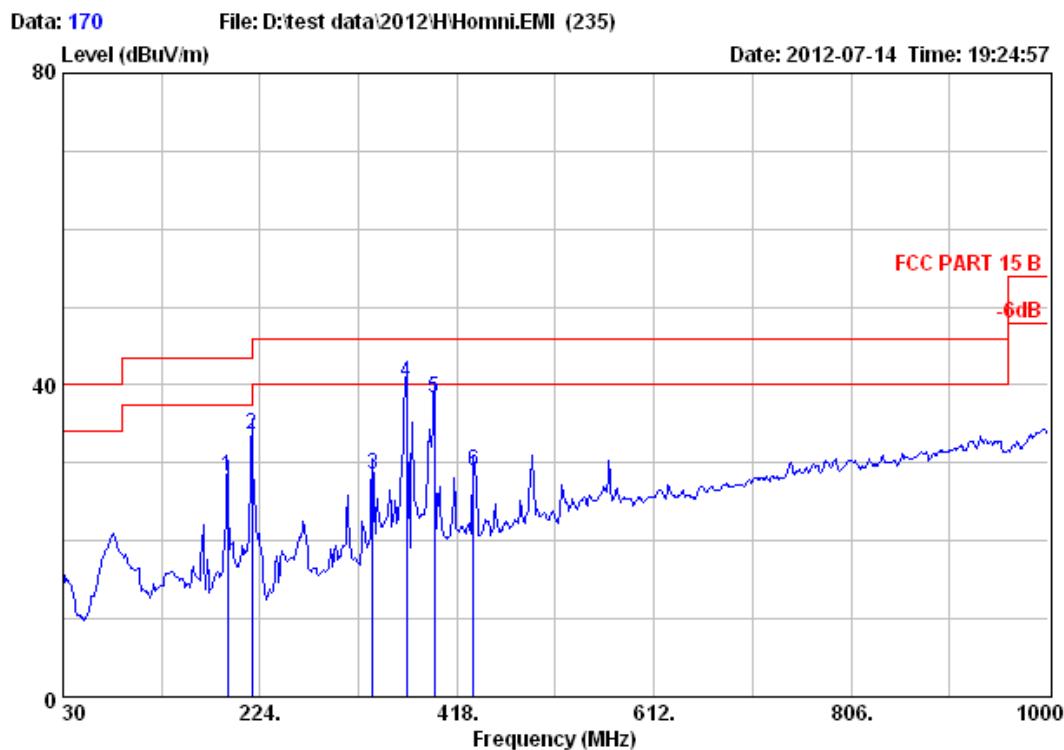


Site no. : 3m Chamber Data no. : 169
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 218.18	9.00	4.41	14.53	27.94	46.00	18.06	QP
2 235.64	9.80	4.64	17.48	31.92	46.00	14.08	QP
3 400.54	16.07	5.98	7.52	29.57	46.00	16.43	QP
4 421.88	16.25	6.21	7.79	30.25	46.00	15.75	QP
5 579.99	19.50	7.23	6.37	33.10	46.00	12.90	QP
6 606.18	19.77	7.41	4.67	31.85	46.00	14.15	QP

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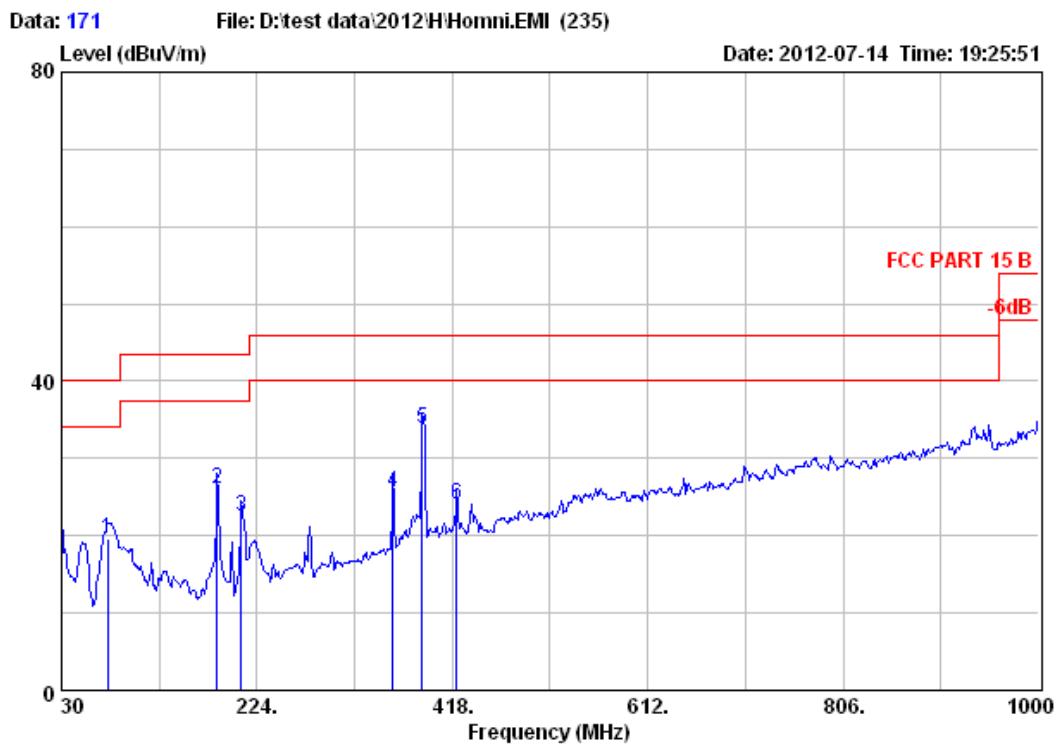


Site no. : 3m Chamber Data no. : 170
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 191.99	7.85	4.22	16.30	28.37	43.50	15.13	QP
2 216.24	8.80	4.40	20.40	33.60	46.00	12.40	QP
3 334.58	13.99	5.52	8.94	28.45	46.00	17.55	QP
4 368.53	14.80	5.73	19.82	40.35	46.00	5.65	QP
5 395.69	15.87	5.93	16.55	38.35	46.00	7.65	QP
6 434.49	16.15	6.27	6.64	29.06	46.00	16.94	QP

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Site no. : 3m Chamber Data no. : 171
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 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)	Remark
1 75.59	6.51	2.80	10.40	19.71	40.00	20.29	QP
2 184.23	8.57	4.18	13.35	26.10	43.50	17.40	QP
3 208.48	8.28	4.31	9.92	22.51	43.50	20.99	QP
4 358.83	14.45	5.73	5.54	25.72	46.00	20.28	QP
5 387.93	15.48	5.86	12.49	33.83	46.00	12.17	QP
6 421.88	16.25	6.21	1.59	24.05	46.00	21.95	QP

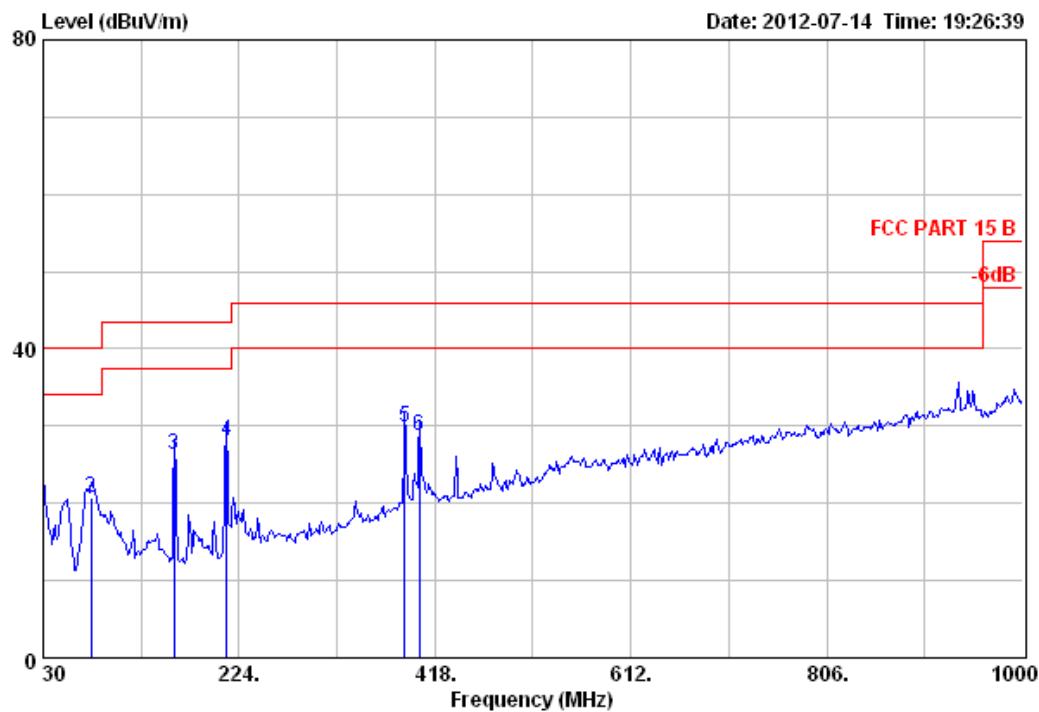
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Data: 172

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 19:26:39



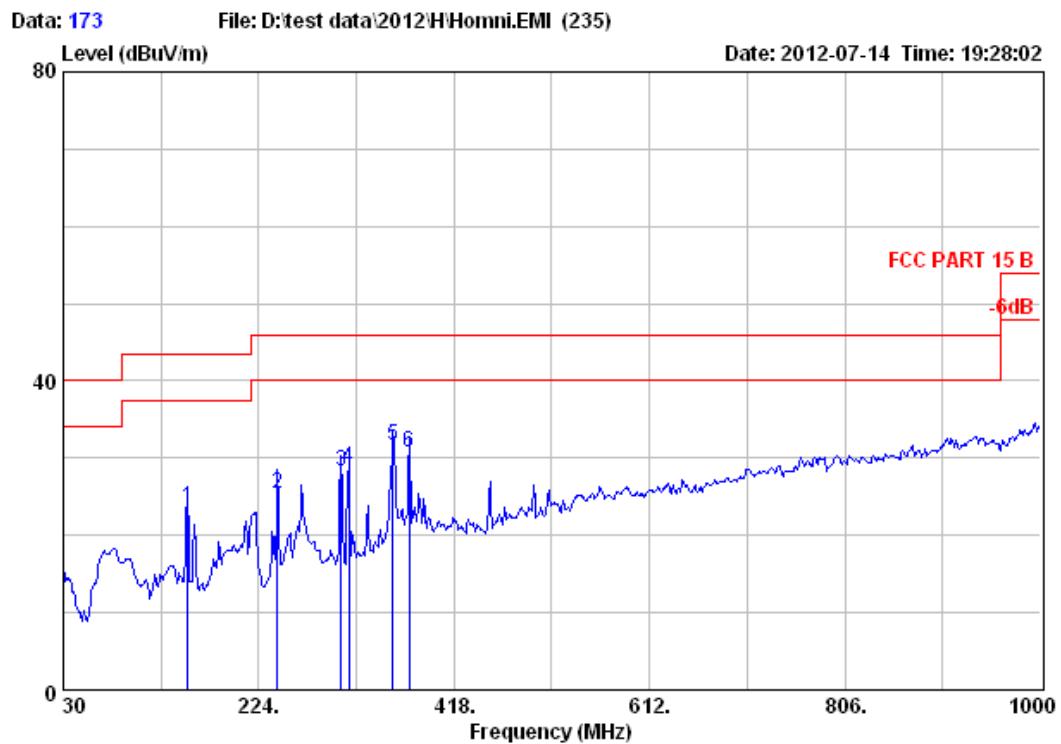
Site no. : 3m Chamber
 Dis. / Ant. : 3m 27137
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2480MHz

Data no. : 172
 Ant. pol. : VERTICAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	0.78	21.20	40.00	18.80	QP
2 77.53	6.80	2.83	11.03	20.66	40.00	19.34	QP
3 159.98	10.36	3.89	12.03	26.28	43.50	17.22	QP
4 211.39	8.51	4.34	15.28	28.13	43.50	15.37	QP
5 387.93	15.48	5.86	8.54	29.88	46.00	16.12	QP
6 402.48	16.12	6.01	6.62	28.75	46.00	17.25	QP

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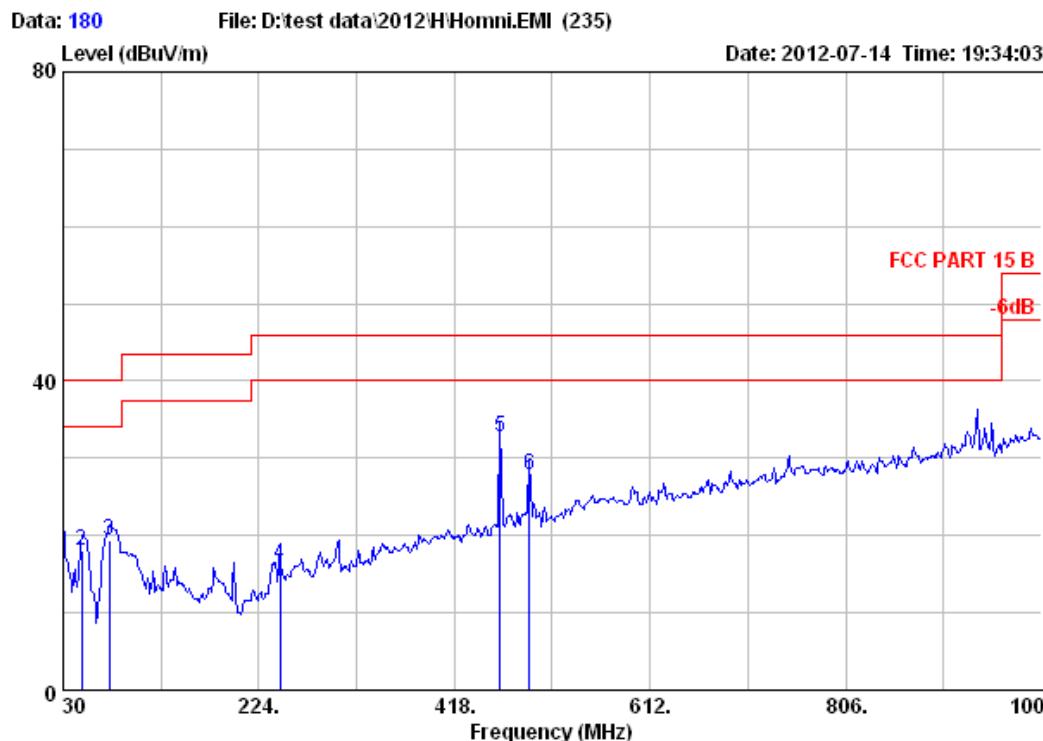


Site no. : 3m Chamber Data no. : 173
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 153.19	10.75	3.81	9.13	23.69	43.50	19.81	QP
2 242.43	10.64	4.72	10.11	25.47	46.00	20.53	QP
3 305.48	13.11	5.28	9.99	28.38	46.00	17.62	QP
4 313.24	13.31	5.34	10.00	28.65	46.00	17.35	QP
5 356.89	14.46	5.72	11.43	31.61	46.00	14.39	QP
6 373.38	14.92	5.76	10.15	30.83	46.00	15.17	QP

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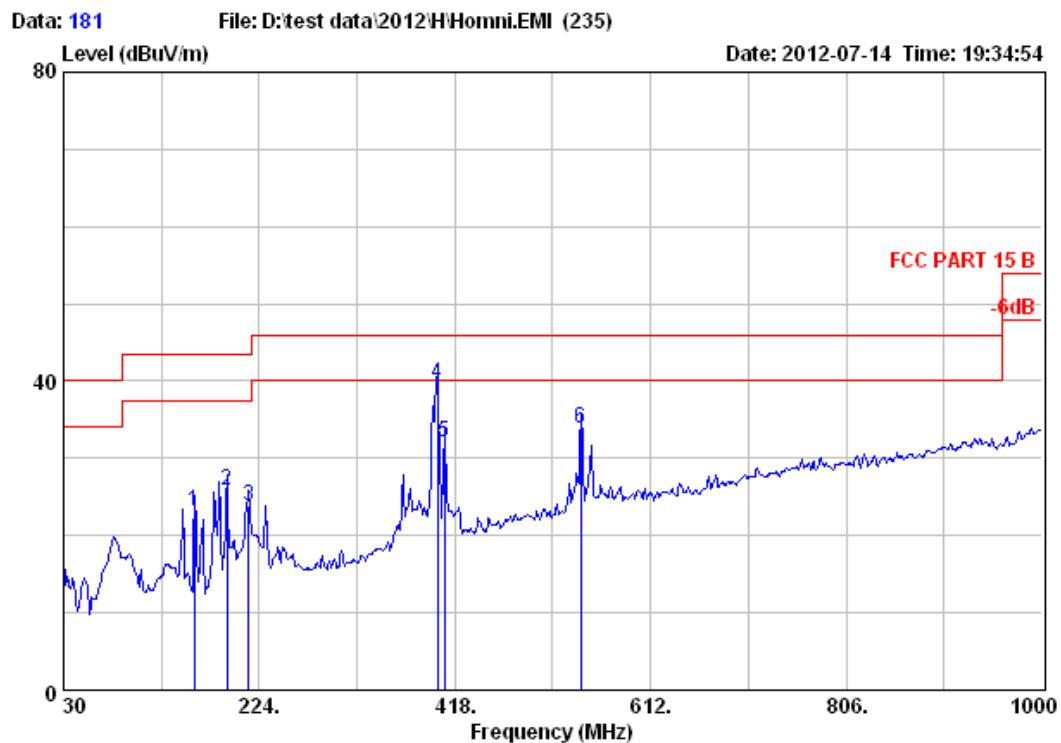


Site no. : 3m Chamber Data no. : 180
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	0.64	21.06	40.00	18.94	QP
2 48.43	8.37	2.30	7.36	18.03	40.00	21.97	QP
3 75.59	6.51	2.80	10.14	19.45	40.00	20.55	QP
4 245.34	11.06	4.77	0.37	16.20	46.00	29.80	QP
5 463.59	16.97	6.50	9.21	32.68	46.00	13.32	QP
6 492.69	17.83	6.69	3.37	27.89	46.00	18.11	QP

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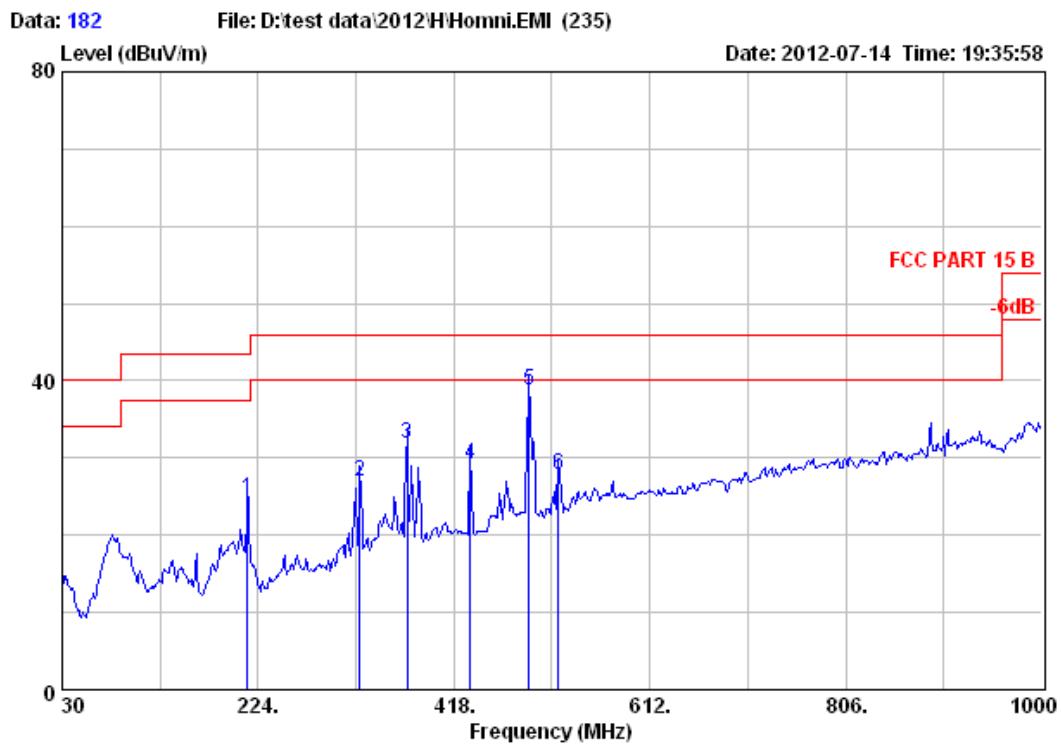


Site no. : 3m Chamber Data no. : 181
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 159.98	10.36	3.89	9.00	23.25	43.50	20.25	QP
2 191.99	7.85	4.22	13.68	25.75	43.50	17.75	QP
3 213.33	8.60	4.35	10.87	23.82	43.50	19.68	QP
4 400.54	16.07	5.98	17.65	39.70	46.00	6.30	QP
5 407.33	16.22	6.08	9.86	32.16	46.00	13.84	QP
6 543.13	19.46	7.02	7.46	33.94	46.00	12.06	QP

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Site no. : 3m Chamber Data no. : 182
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2441MHz

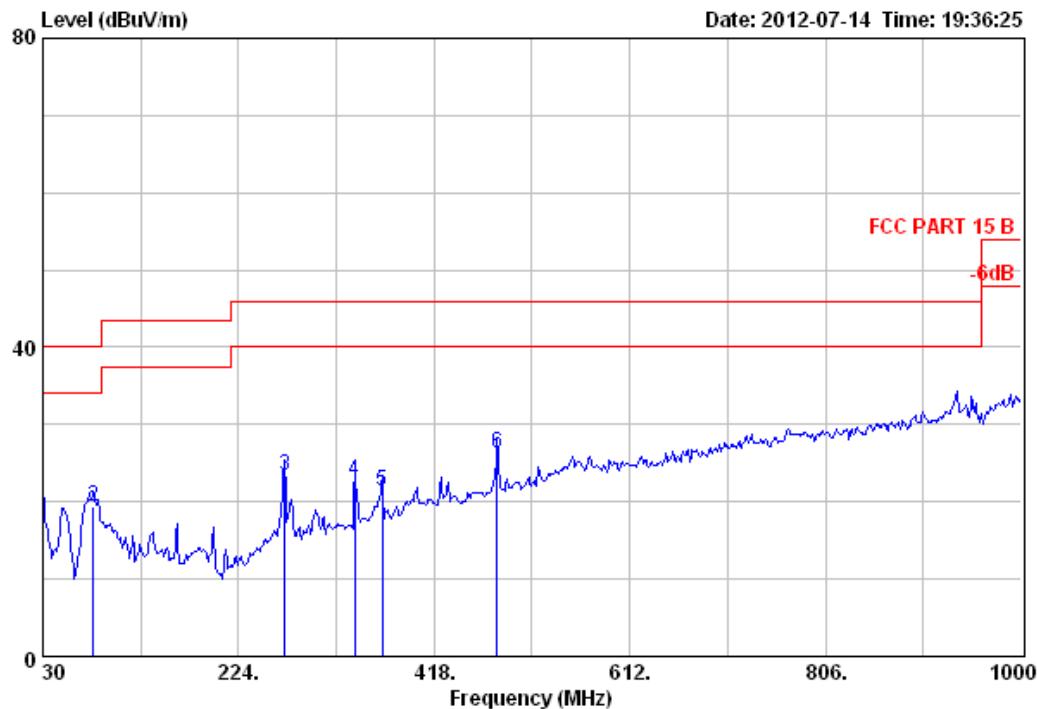
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 213.33	8.60	4.35	11.89	24.84	43.50	18.66	QP
2 324.88	13.71	5.43	7.80	26.94	46.00	19.06	QP
3 371.44	14.89	5.77	11.28	31.94	46.00	14.06	QP
4 434.49	16.15	6.27	6.88	29.30	46.00	16.70	QP
5 492.69	17.83	6.69	14.24	38.76	46.00	7.24	QP
6 521.79	18.01	6.88	2.87	27.76	46.00	18.24	QP

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Data: 183 File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 19:36:25

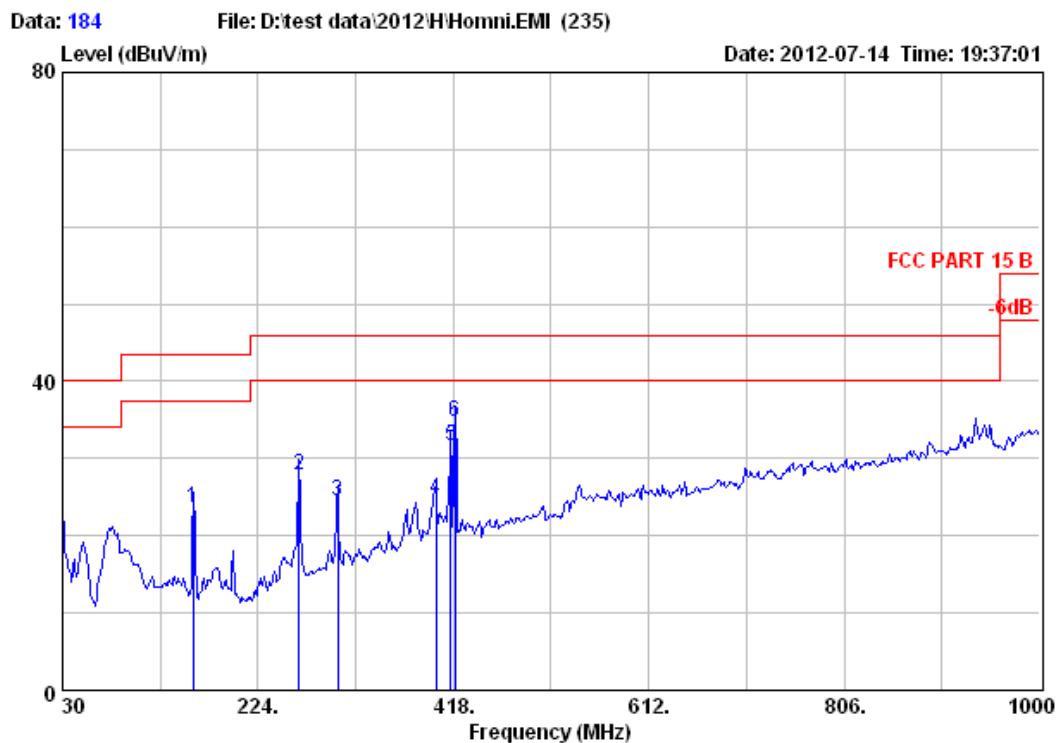


Site no. : 3m Chamber Data no. : 183
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	0.49	20.91	40.00	19.09	QP
2 80.44	7.07	2.84	9.58	19.49	40.00	20.51	QP
3 269.59	12.56	5.01	5.80	23.37	46.00	22.63	QP
4 339.43	14.13	5.58	2.91	22.62	46.00	23.38	QP
5 366.59	14.72	5.74	0.92	21.38	46.00	24.62	QP
6 480.08	17.45	6.60	2.18	26.23	46.00	19.77	QP

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Site no. : 3m Chamber Data no. : 184
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 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)	Remark
1 159.98	10.36	3.89	9.30	23.55	43.50	19.95	QP
2 264.74	12.94	4.97	9.88	27.79	46.00	18.21	QP
3 303.54	13.08	5.27	6.15	24.50	46.00	21.50	QP
4 400.54	16.07	5.98	2.65	24.70	46.00	21.30	QP
5 415.09	16.30	6.17	9.10	31.57	46.00	14.43	QP
6 419.94	16.30	6.19	12.32	34.81	46.00	11.19	QP

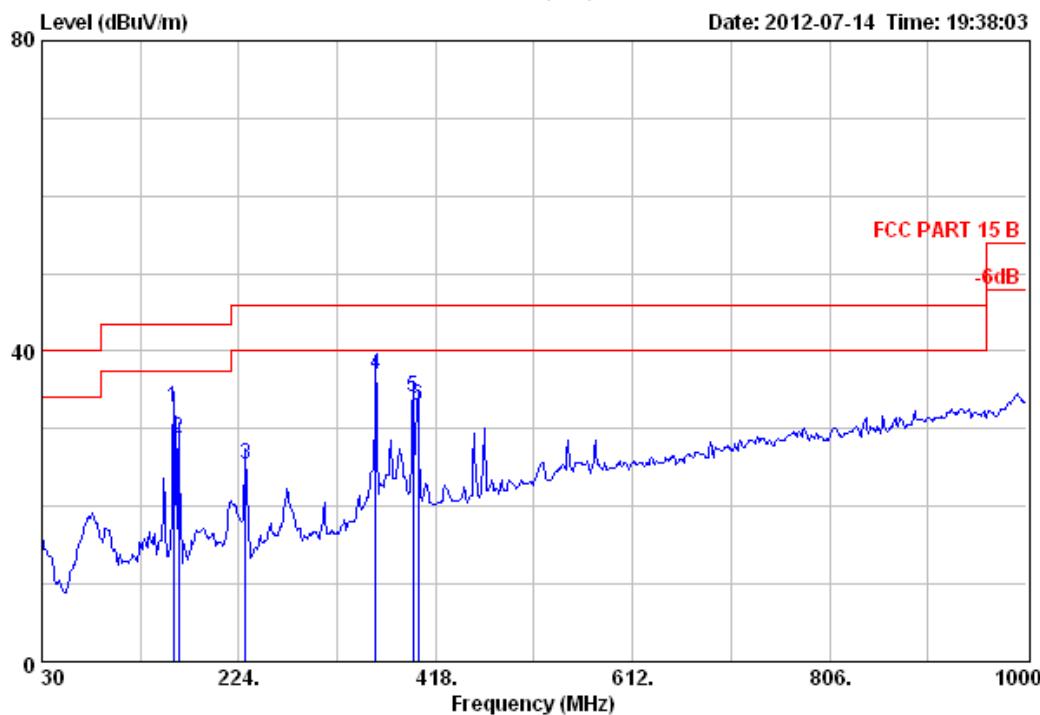
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Data: 185

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 19:38:03



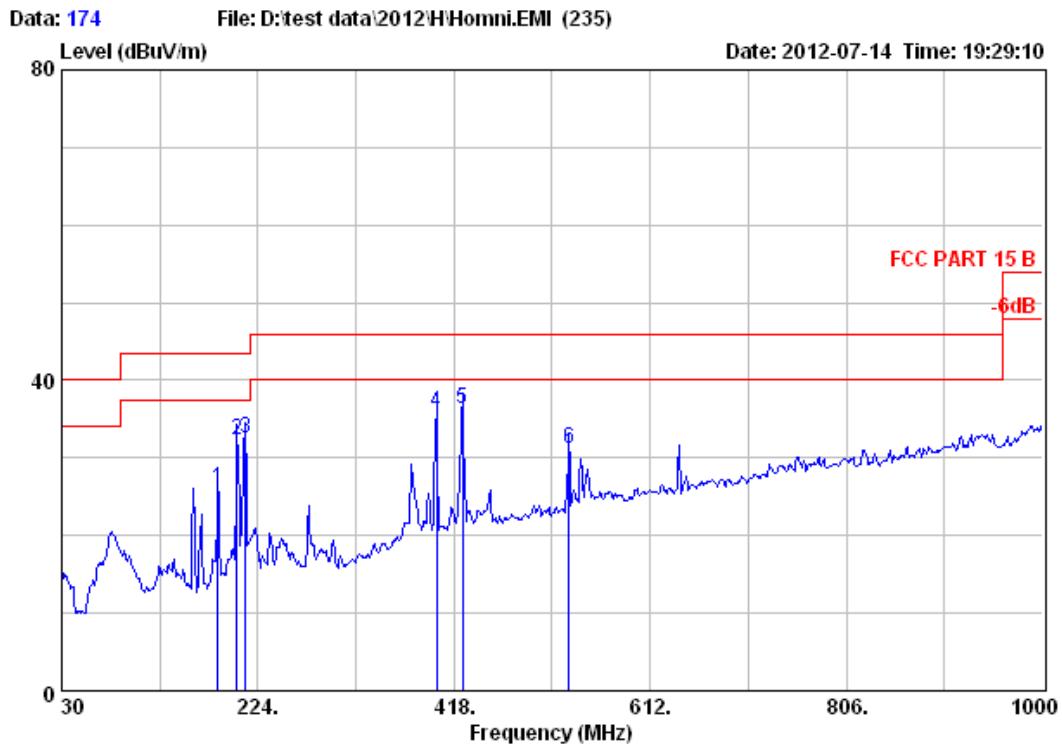
Site no. : 3m Chamber
 Dis. / Ant. : 3m 27137
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2480MHz

Data no. : 185
 Ant. pol. : HORIZONTAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	159.98	10.36	3.89	18.58	32.83	43.50	QP
2	164.83	9.77	3.94	15.08	28.79	43.50	14.71
3	230.79	9.49	4.58	11.30	25.37	46.00	20.63
4	358.83	14.45	5.73	16.88	37.06	46.00	8.94
5	395.69	15.87	5.93	12.25	34.05	46.00	11.95
6	400.54	16.07	5.98	10.87	32.92	46.00	13.08

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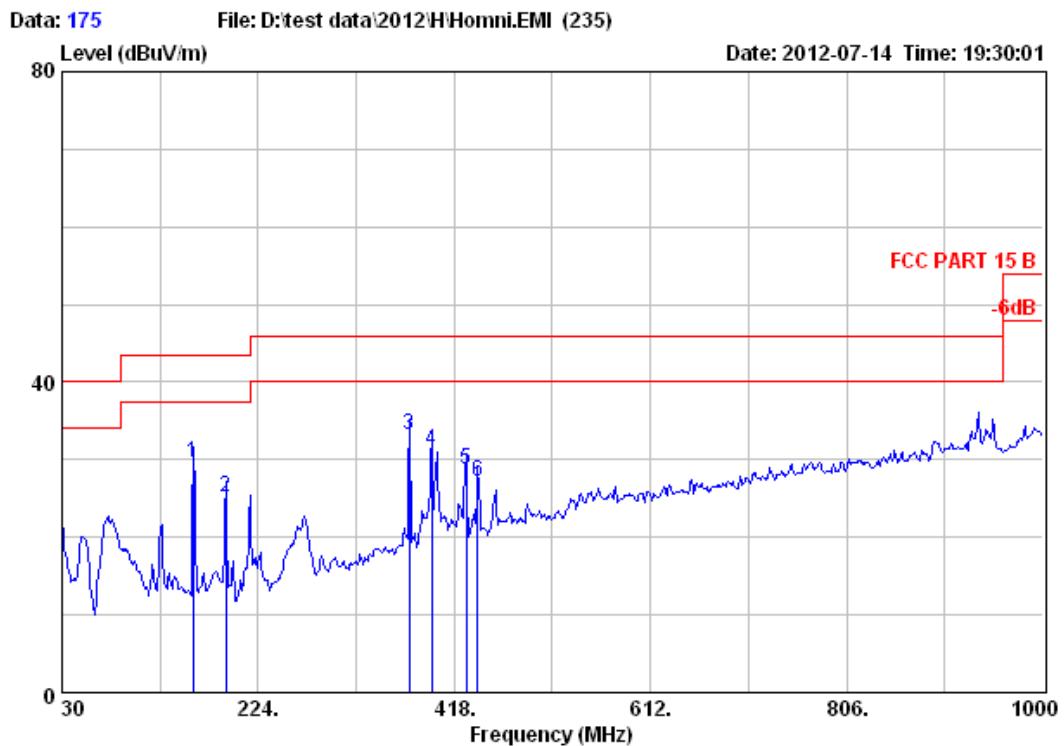


Site no. : 3m Chamber Data no. : 174
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 184.23	8.57	4.18	13.26	26.01	43.50	17.49	QP	
2 203.63	7.87	4.29	20.20	32.36	43.50	11.14	QP	
3 211.39	8.51	4.34	19.71	32.56	43.50	10.94	QP	
4 400.54	16.07	5.98	13.85	35.90	46.00	10.10	QP	
5 426.73	16.13	6.25	13.90	36.28	46.00	9.72	QP	
6 531.49	18.45	6.92	5.73	31.10	46.00	14.90	QP	

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Site no. : 3m Chamber Data no. : 175
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2402MHz

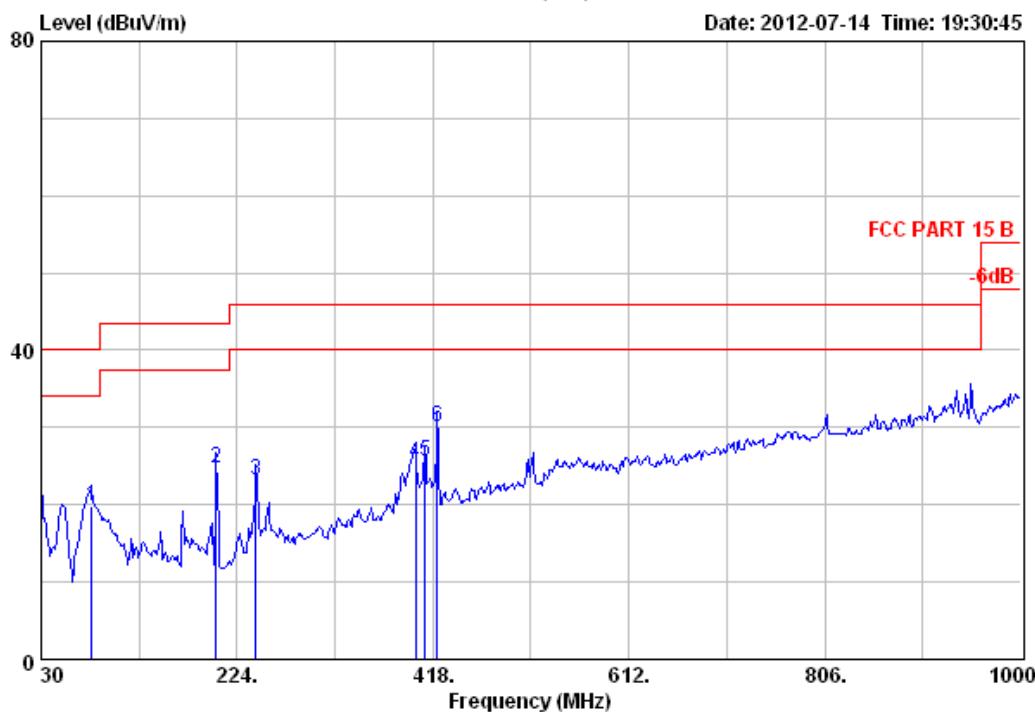
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 159.98	10.36	3.89	15.39	29.64	43.50	13.86	QP
2 191.99	7.85	4.22	13.04	25.11	43.50	18.39	QP
3 373.38	14.92	5.76	12.60	33.28	46.00	12.72	QP
4 395.69	15.87	5.93	9.46	31.26	46.00	14.74	QP
5 429.64	16.06	6.25	6.51	28.82	46.00	17.18	QP
6 441.28	16.27	6.31	4.58	27.16	46.00	18.84	QP

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Data: 176 File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 19:30:45

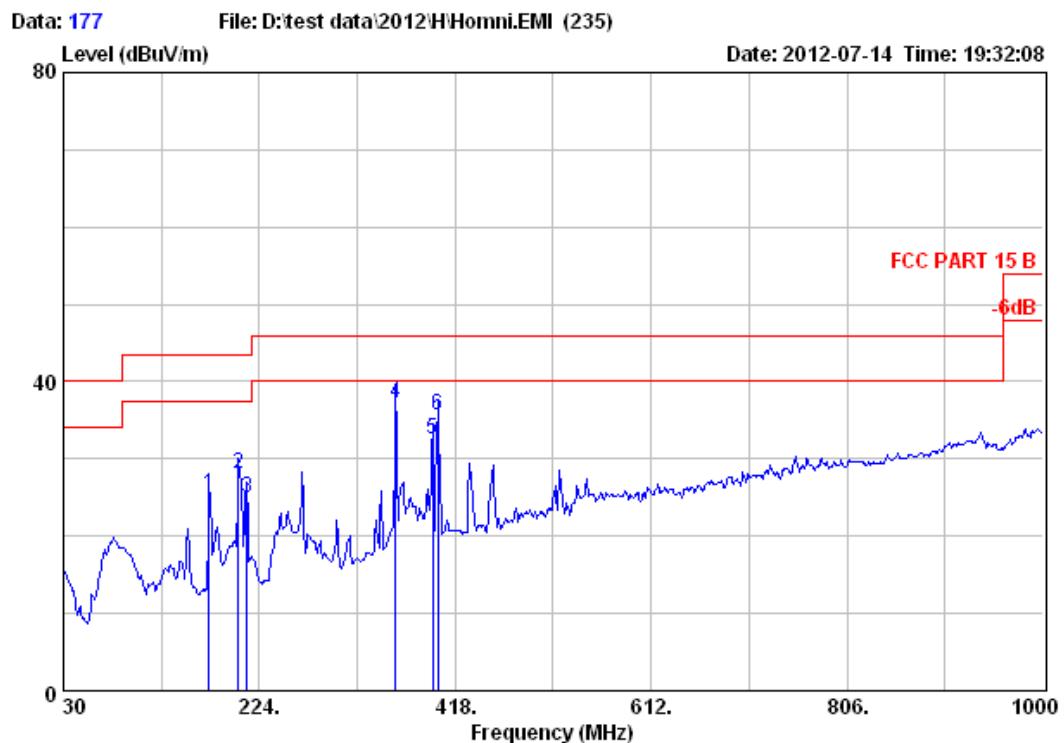


Site no. : 3m Chamber Data no. : 176
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 80.44	7.07	2.84	9.91	19.82	40.00	20.18	QP
2 203.63	7.87	4.29	12.65	24.81	43.50	18.69	QP
3 242.43	10.64	4.72	7.83	23.19	46.00	22.81	QP
4 400.54	16.07	5.98	3.42	25.47	46.00	20.53	QP
5 410.24	16.29	6.10	3.32	25.71	46.00	20.29	QP
6 421.88	16.25	6.21	7.60	30.06	46.00	15.94	QP

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Site no. : 3m Chamber Data no. : 177
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2441MHz

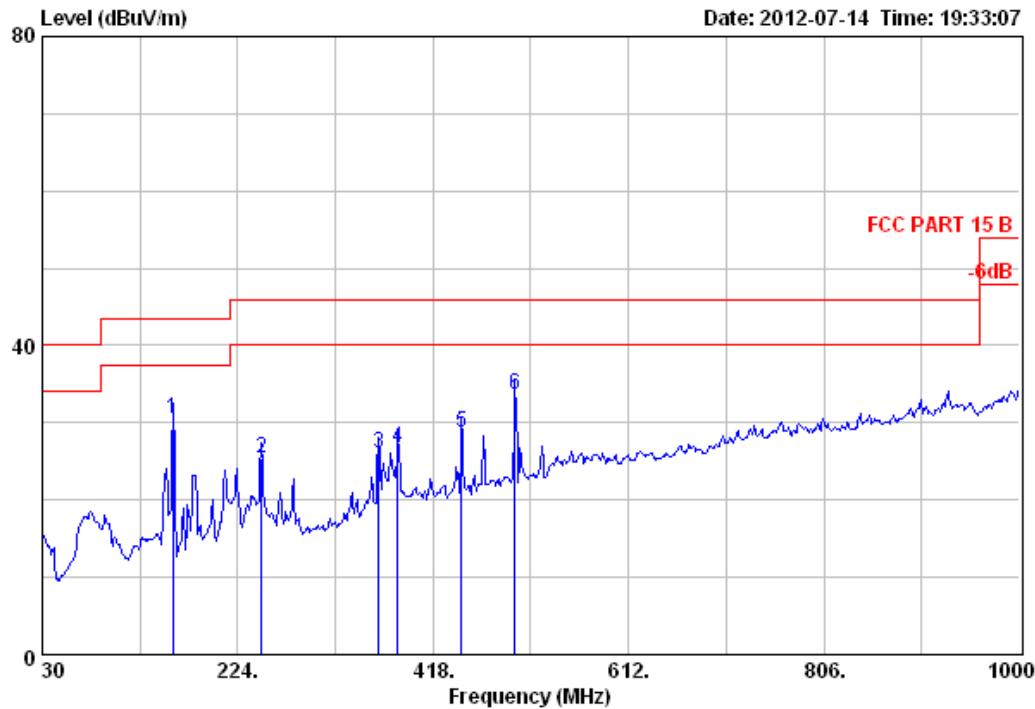
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 174.53	8.99	4.08	12.25	25.32	43.50	18.18	QP
2 203.63	7.87	4.29	15.99	28.15	43.50	15.35	QP
3 211.39	8.51	4.34	12.17	25.02	43.50	18.48	QP
4 358.83	14.45	5.73	17.12	37.30	46.00	8.70	QP
5 395.69	15.87	5.93	10.76	32.56	46.00	13.44	QP
6 400.54	16.07	5.98	13.66	35.71	46.00	10.29	QP

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Data: 178 File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 19:33:07



Site no. : 3m Chamber Data no. : 178
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2480MHz

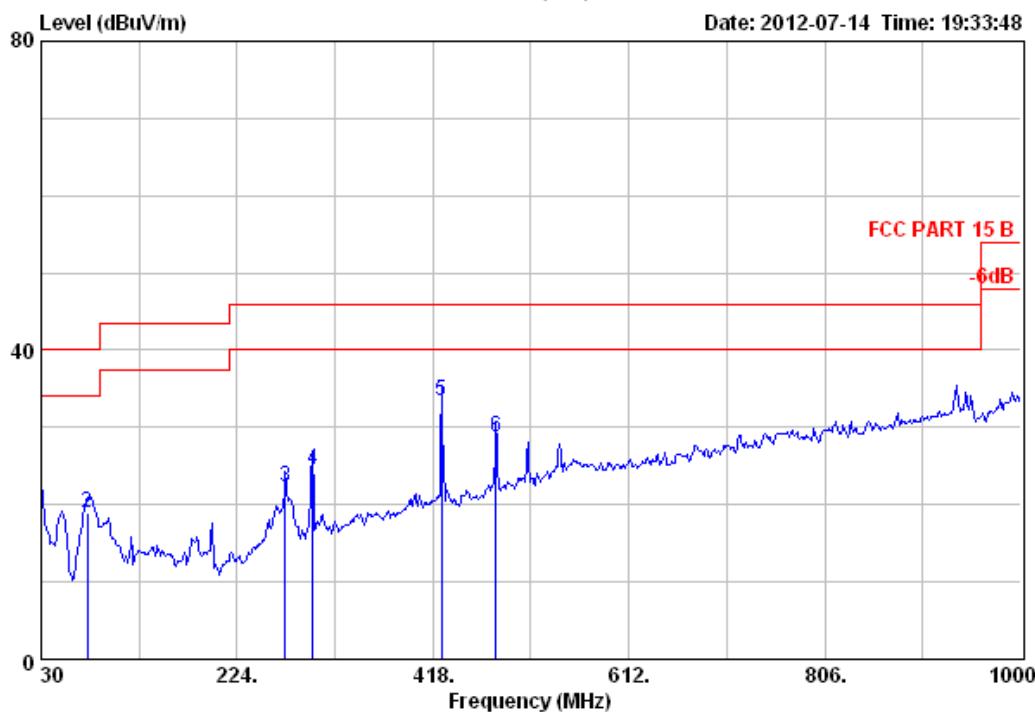
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 159.98	10.36	3.89	16.21	30.46	43.50	13.04	QP
2 247.28	11.36	4.78	9.17	25.31	46.00	20.69	QP
3 363.68	14.61	5.72	5.64	25.97	46.00	20.03	QP
4 383.08	15.18	5.81	5.69	26.68	46.00	19.32	QP
5 446.13	16.38	6.33	6.13	28.84	46.00	17.16	QP
6 499.48	17.87	6.72	9.04	33.63	46.00	12.37	QP

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Data: 179 File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 19:33:48



Site no. : 3m Chamber
 Dis. / Ant. : 3m 27137
 Limit : FCC PART 15 B
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2480MHz

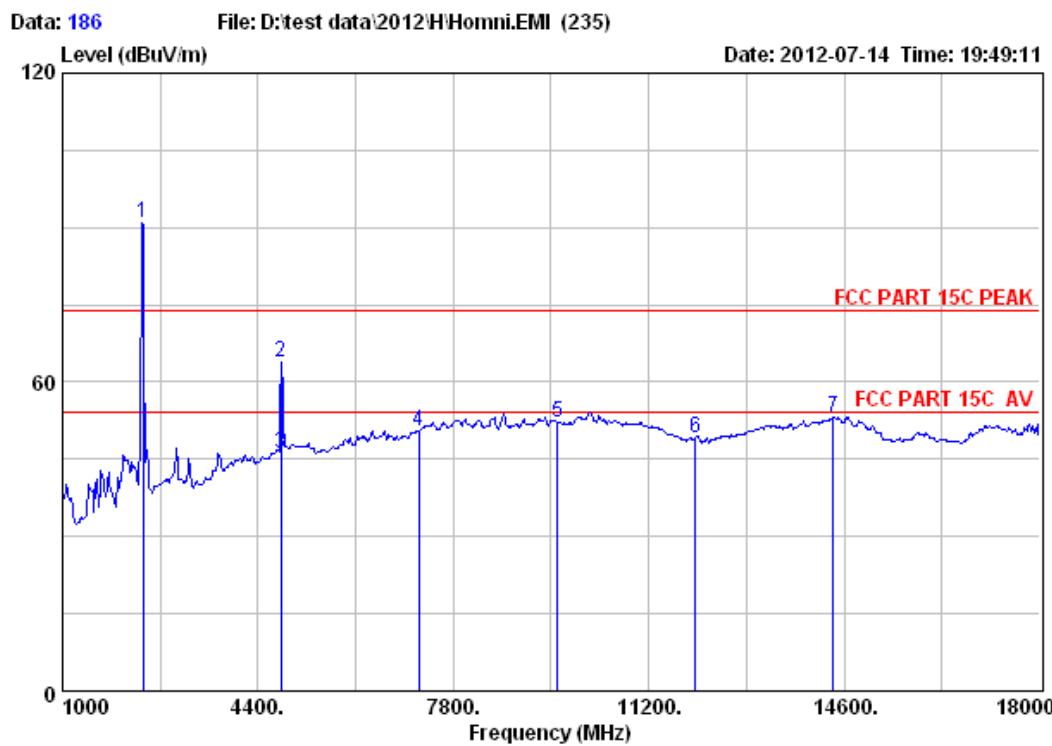
Data no. : 179
 Ant. pol. : VERTICAL

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 30.00	18.51	1.91	0.25	20.67	40.00	19.33	QP
2 75.59	6.51	2.80	9.69	19.00	40.00	21.00	QP
3 271.53	12.49	5.02	4.80	22.31	46.00	23.69	QP
4 298.69	13.00	5.24	6.32	24.56	46.00	21.44	QP
5 426.73	16.13	6.25	10.94	33.32	46.00	12.68	QP
6 480.08	17.45	6.60	4.68	28.73	46.00	17.27	QP

1000 MHz – 18000MHz

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Site no. : 3m Chamber Data no. : 186
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Hum:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2402.00	27.61	6.62	34.18	90.88	90.93	74.00	-16.93	Peak
2 4804.00	31.25	11.77	31.81	52.80	64.01	74.00	9.99	Peak
3 4804.00	31.25	11.77	31.81	34.79	46.00	54.00	8.00	Average
4 7206.00	36.52	11.54	32.11	34.67	50.62	74.00	23.38	Peak
5 9608.00	37.91	11.69	31.93	34.63	52.30	74.00	21.70	Peak
6 12010.00	38.62	11.40	35.53	34.73	49.22	74.00	24.78	Peak
7 14412.00	41.80	10.92	32.78	33.32	53.26	74.00	20.74	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.

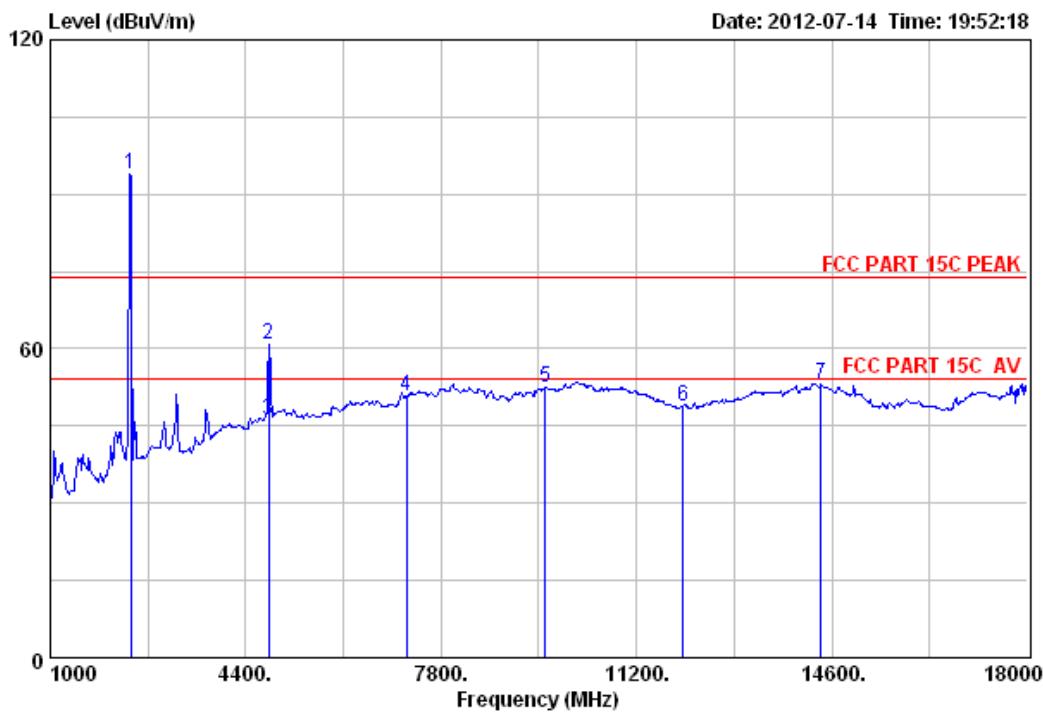
EST Technology

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Data: 187

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 19:52:18



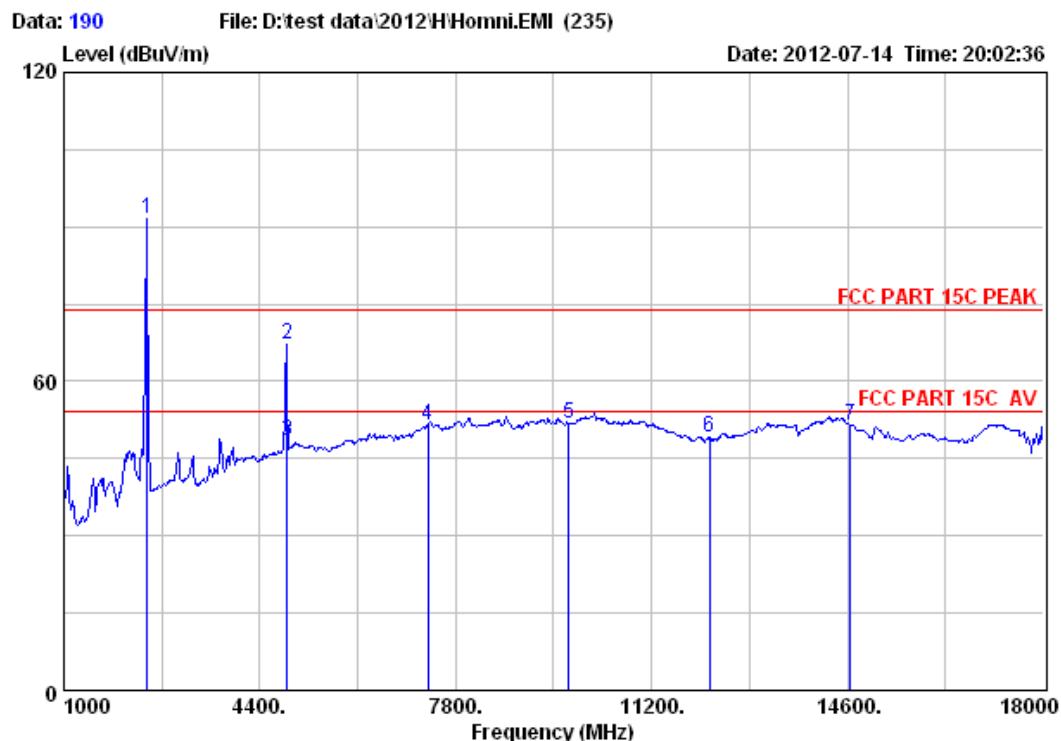
Site no. : 3m Chamber Data no. : 187
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	93.85	93.90	74.00	-19.90	Peak
2	4804.00	31.25	11.77	31.81	49.76	60.97	74.00	13.03	Peak
3	4804.00	31.25	11.77	31.81	34.79	46.00	54.00	8.00	Average
4	7206.00	36.52	11.54	32.11	34.97	50.92	74.00	23.08	Peak
5	9608.00	37.91	11.69	31.93	34.70	52.37	74.00	21.63	Peak
6	12010.00	38.62	11.40	35.53	34.46	48.95	74.00	25.05	Peak
7	14412.00	41.80	10.92	32.78	33.13	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.

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Site no. : 3m Chamber Data no. : 190
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2441MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2441.00	27.60	6.67	34.12	91.32	91.47	74.00	-17.47 Peak
2	4882.00	31.37	12.07	31.90	55.52	67.06	74.00	6.94 Peak
3	4882.00	31.37	12.07	31.90	36.96	48.50	54.00	5.50 Average
4	7323.00	36.55	11.57	31.99	35.46	51.59	74.00	22.41 Peak
5	9764.00	38.13	11.64	31.86	33.92	51.83	74.00	22.17 Peak
6	12205.00	38.68	11.20	35.71	34.90	49.07	74.00	24.93 Peak
7	14646.00	41.42	10.91	33.62	32.86	51.57	74.00	22.43 Peak

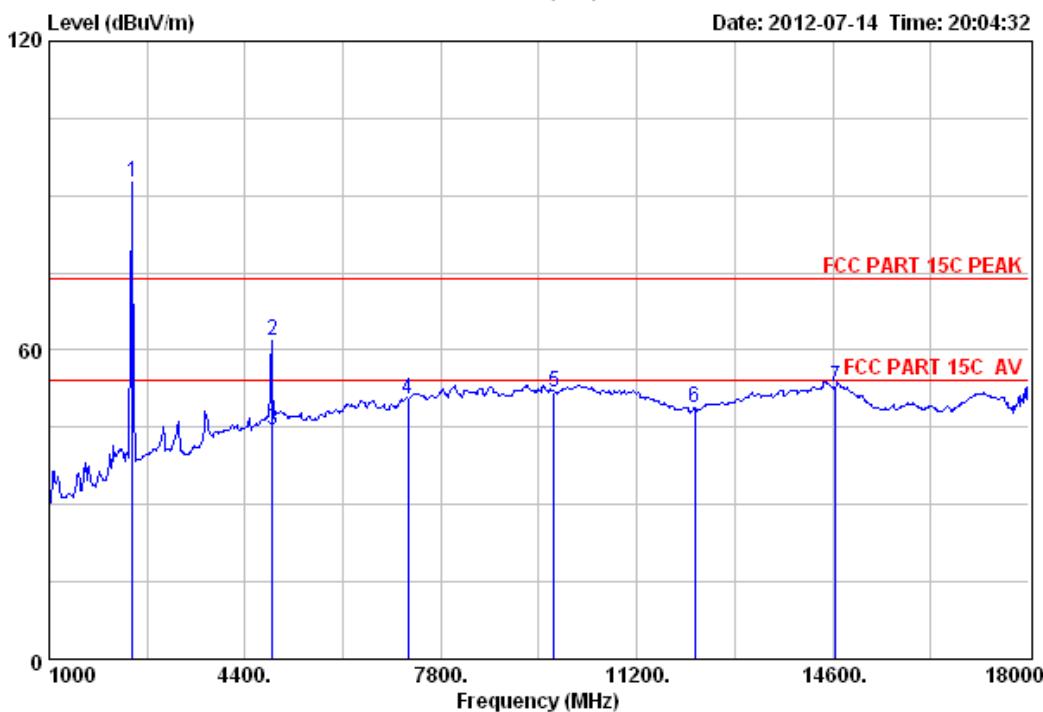
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 191 File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:04:32



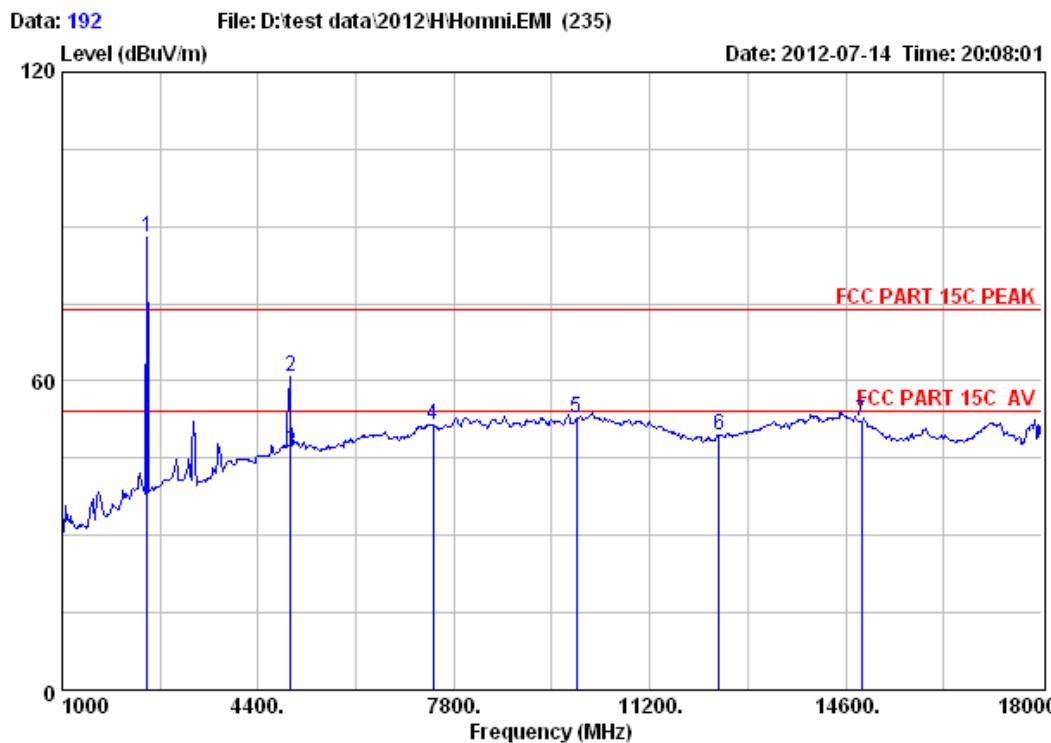
Site no. : 3m Chamber Data no. : 191
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2441MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.12	92.27	92.42	74.00	-18.42	Peak
2	4882.00	31.37	12.07	31.90	50.25	61.79	74.00	12.21	Peak
3	4882.00	31.37	12.07	31.90	32.76	44.30	54.00	9.70	Average
4	7232.00	36.53	11.55	32.07	34.47	50.48	74.00	23.52	Peak
5	9764.00	38.13	11.64	31.86	34.05	51.96	74.00	22.04	Peak
6	12205.00	38.68	11.20	35.71	34.74	48.91	74.00	25.09	Peak
7	14646.00	41.42	10.91	33.62	34.12	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.

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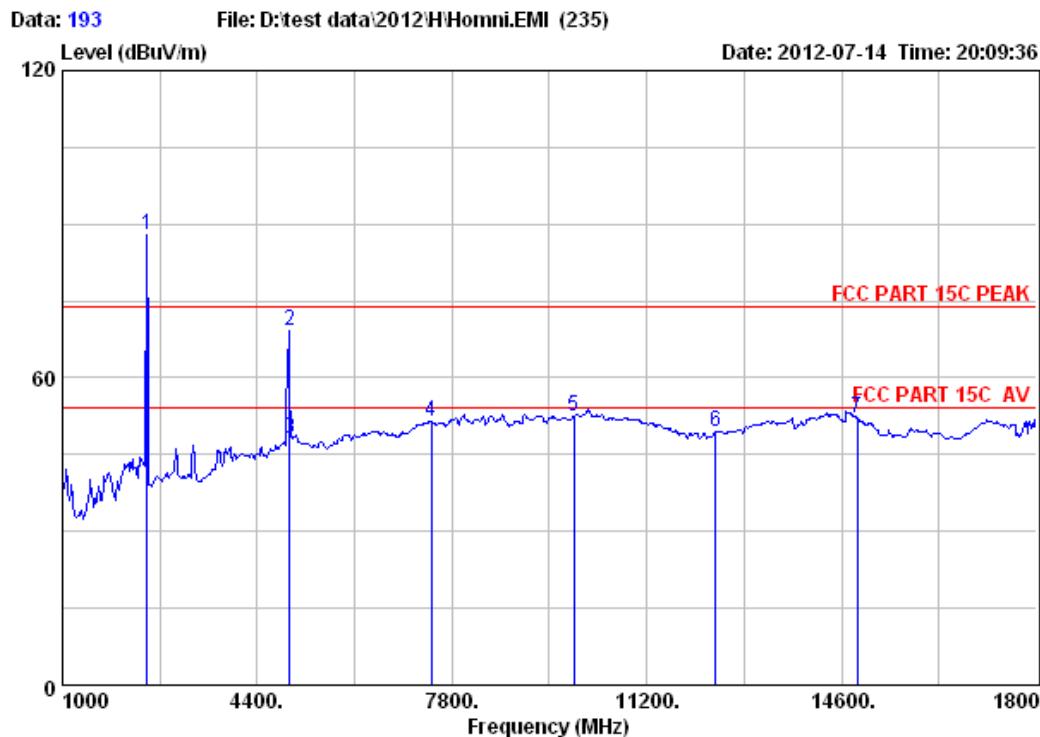
Site no. : 3m Chamber Data no. : 192
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2480MHz

		Ant.	Cable	Amp	Emission				
Freq.		Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.00	27.58	6.71	34.03	87.71	87.97	74.00	-13.97	Peak
2	4960.00	31.49	12.44	31.97	48.75	60.71	74.00	13.29	Peak
3	4960.00	31.49	12.44	31.97	34.04	46.00	54.00	8.00	Average
4	7440.00	36.54	11.61	31.93	35.41	51.63	74.00	22.37	Peak
5	9920.00	38.14	11.61	31.76	34.69	52.68	74.00	21.32	Peak
6	12400.00	38.73	10.99	35.36	35.24	49.60	74.00	24.40	Peak
7	14880.00	40.59	10.88	34.45	35.08	52.10	74.00	21.90	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. : 193
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Hum:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2480.00	27.58	6.71	34.03	87.79	88.05	74.00	-14.05	Peak
2 4960.00	31.49	12.44	31.97	57.22	69.18	74.00	4.82	Peak
3 4960.00	31.49	12.44	31.97	36.04	48.00	54.00	6.00	Average
4 7440.00	36.54	11.61	31.93	35.29	51.51	74.00	22.49	Peak
5 9920.00	38.14	11.61	31.76	34.53	52.52	74.00	21.48	Peak
6 12400.00	38.73	10.99	35.36	34.95	49.31	74.00	24.69	Peak
7 14880.00	40.59	10.88	34.45	35.20	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.

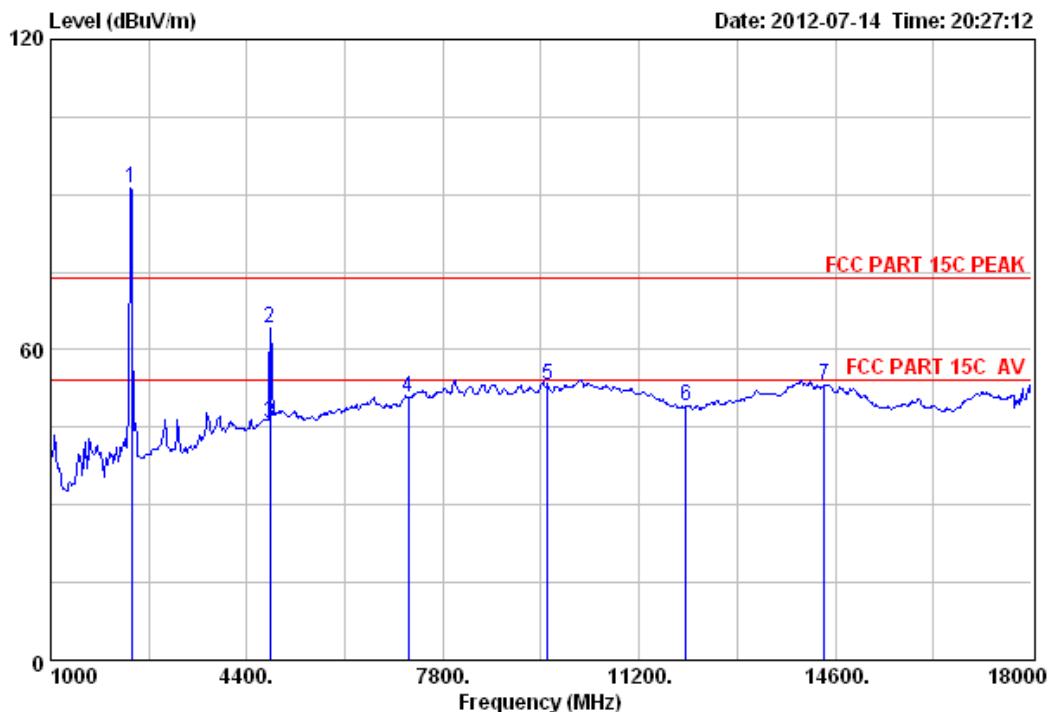
EST Technology

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Data: 202

File: D:\test data\2012\HHomni.EMI (235)

Date: 2012-07-14 Time: 20:27:12



Site no. : 3m Chamber Data no. : 202
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	91.25	91.30	74.00	-17.30	Peak
2	4804.00	31.25	11.77	31.81	52.90	64.11	74.00	9.89	Peak
3	4804.00	31.25	11.77	31.81	34.49	45.70	54.00	8.30	Average
4	7206.00	36.52	11.54	32.11	34.86	50.81	74.00	23.19	Peak
5	9608.00	37.91	11.69	31.93	35.54	53.21	74.00	20.79	Peak
6	12010.00	38.62	11.40	35.53	34.49	48.98	74.00	25.02	Peak
7	14412.00	41.80	10.92	32.78	33.17	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.

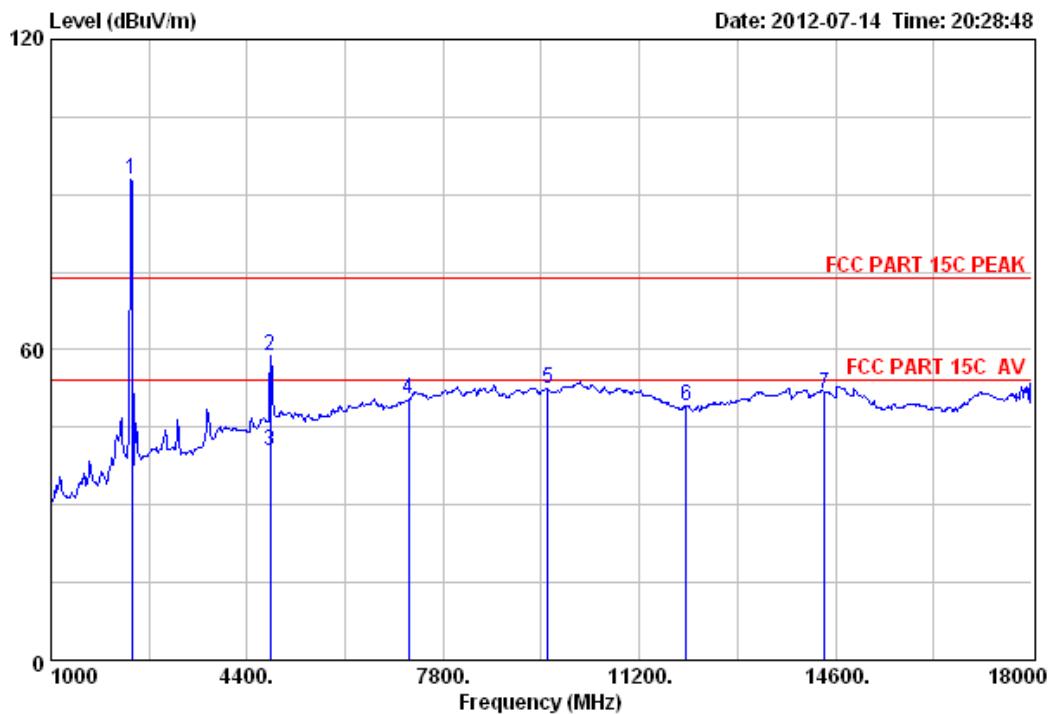
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Data: 203

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:28:48



Site no. : 3m Chamber
 Dis. / Ant. : 3m ANT 1-18G
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2402MHz

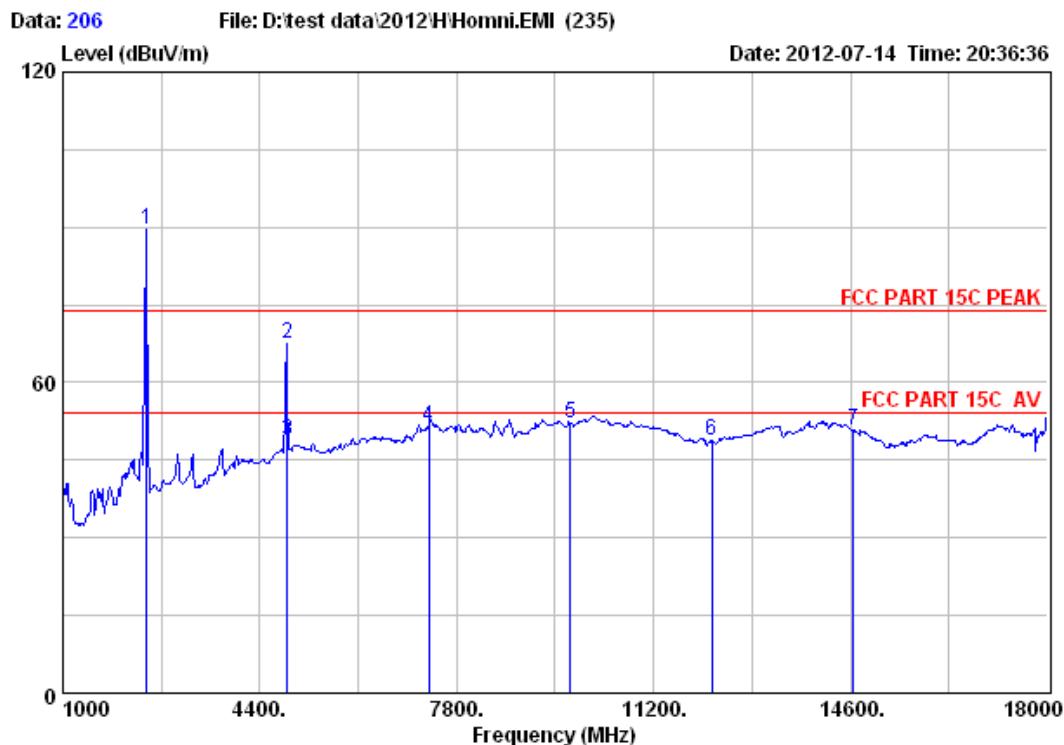
Data no. : 203
 Ant. pol. : HORIZONTAL

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.18	92.89	92.94	74.00	-18.94	Peak
2	4804.00	31.25	11.77	31.81	47.73	58.94	74.00	15.06	Peak
3	4804.00	31.25	11.77	31.81	29.09	40.30	54.00	13.70	Average
4	7206.00	36.52	11.54	32.11	34.37	50.32	74.00	23.68	Peak
5	9608.00	37.91	11.69	31.93	34.71	52.38	74.00	21.62	Peak
6	12010.00	38.62	11.40	35.53	34.78	49.27	74.00	24.73	Peak
7	14412.00	41.80	10.92	32.78	31.68	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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Site no. : 3m Chamber Data no. : 206
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2441MHz

	Freq.	Ant. (MHz)	Cable Factor (dB/m)	Amp Loss (dB)	Emission Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.12	89.43	89.58	74.00	-15.58		Peak
2	4882.00	31.37	12.07	31.90	55.83	67.37	74.00	6.63		Peak
3	4882.00	31.37	12.07	31.90	37.36	48.90	54.00	5.10		Average
4	7323.00	36.55	11.57	31.99	35.48	51.61	74.00	22.39		Peak
5	9764.00	38.13	11.64	31.86	34.23	52.14	74.00	21.86		Peak
6	12205.00	38.68	11.20	35.71	34.64	48.81	74.00	25.19		Peak
7	14646.00	41.42	10.91	33.62	32.06	50.77	74.00	23.23		Peak

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

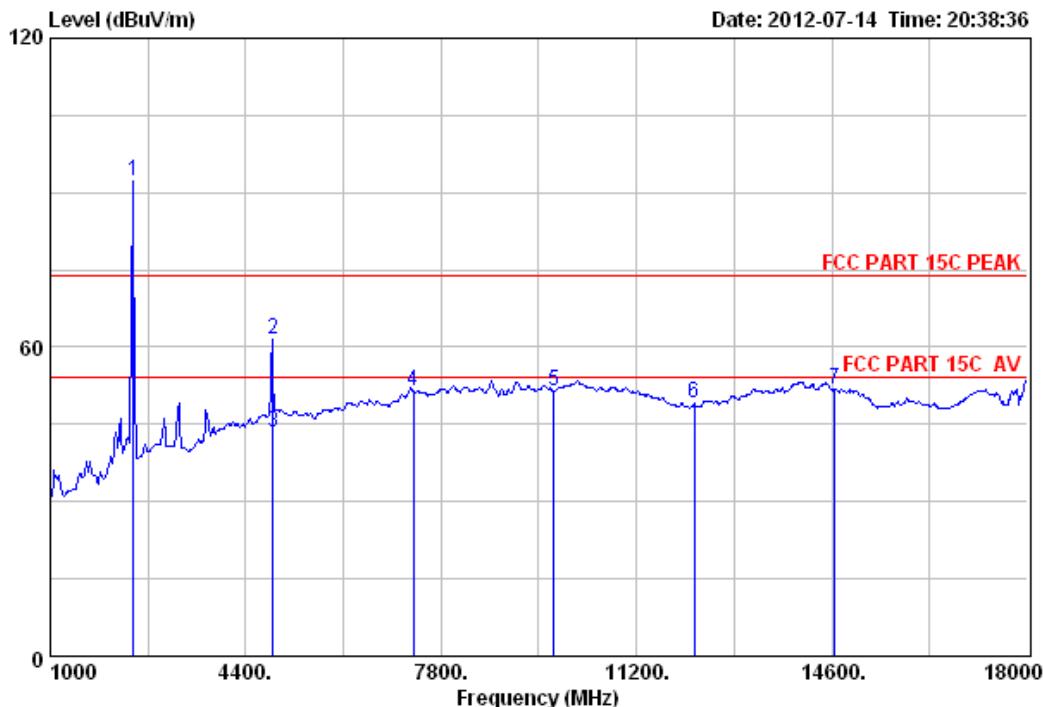
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Data: 207

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:38:36



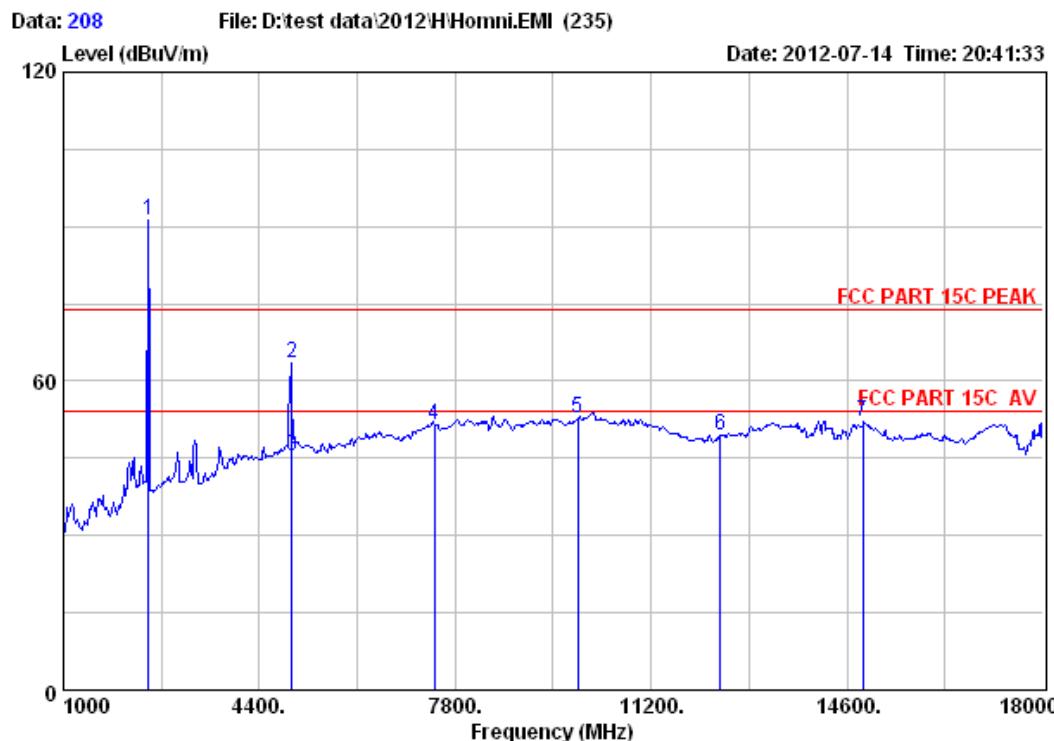
Site no. : 3m Chamber Data no. : 207
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2441MHz

	Freq.	Ant. Factor	Cable Loss	Amp Factor	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2441.00	27.60	6.67	34.12	92.02	92.17	74.00	-18.17	Peak
2	4882.00	31.37	12.07	31.90	49.98	61.52	74.00	12.48	Peak
3	4882.00	31.37	12.07	31.90	31.96	43.50	54.00	10.50	Average
4	7323.00	36.55	11.57	31.99	35.22	51.35	74.00	22.65	Peak
5	9764.00	38.13	11.64	31.86	33.64	51.55	74.00	22.45	Peak
6	12205.00	38.68	11.20	35.71	34.84	49.01	74.00	24.99	Peak
7	14646.00	41.42	10.91	33.62	32.94	51.65	74.00	22.35	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. : 208
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2480.00	27.58	6.71	34.03	90.92	91.18	74.00	-17.18	Peak
2 4960.00	31.49	12.44	31.97	51.53	63.49	74.00	10.51	Peak
3 4960.00	31.49	12.44	31.97	33.64	45.60	54.00	8.40	Average
4 7440.00	36.54	11.61	31.93	35.33	51.55	74.00	22.45	Peak
5 9920.00	38.14	11.61	31.76	34.68	52.67	74.00	21.33	Peak
6 12400.00	38.73	10.99	35.36	35.03	49.39	74.00	24.61	Peak
7 14880.00	40.59	10.88	34.45	35.04	52.06	74.00	21.94	Peak

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

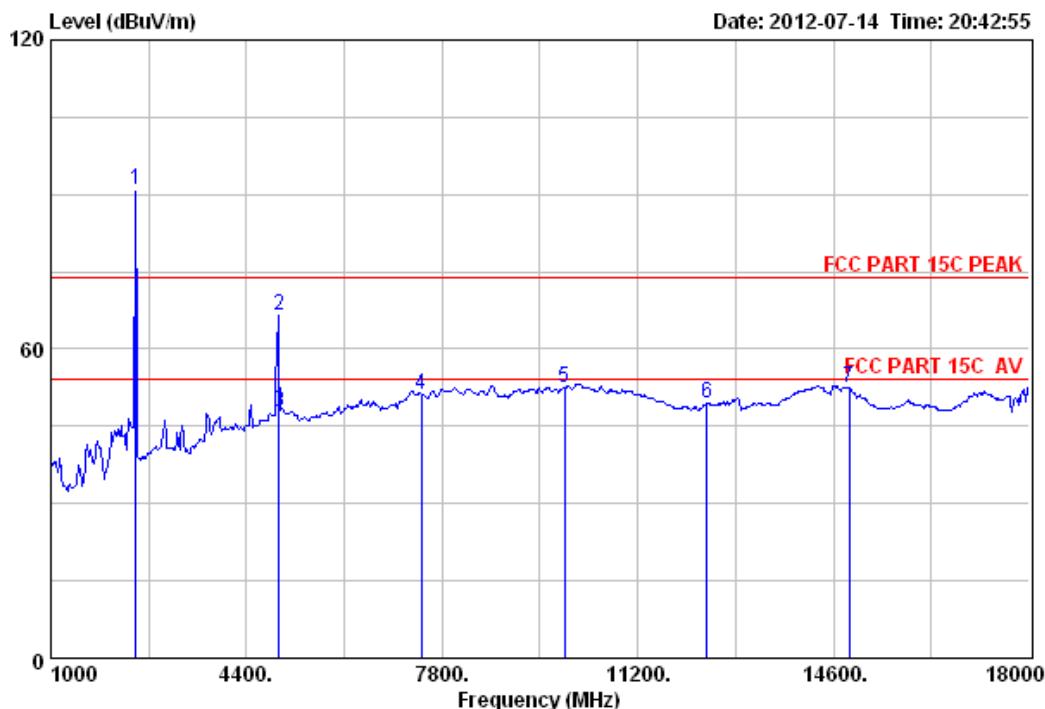
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Data: 209

File: D:\test data\2012\H\Honni.EMI (235)

Date: 2012-07-14 Time: 20:42:55



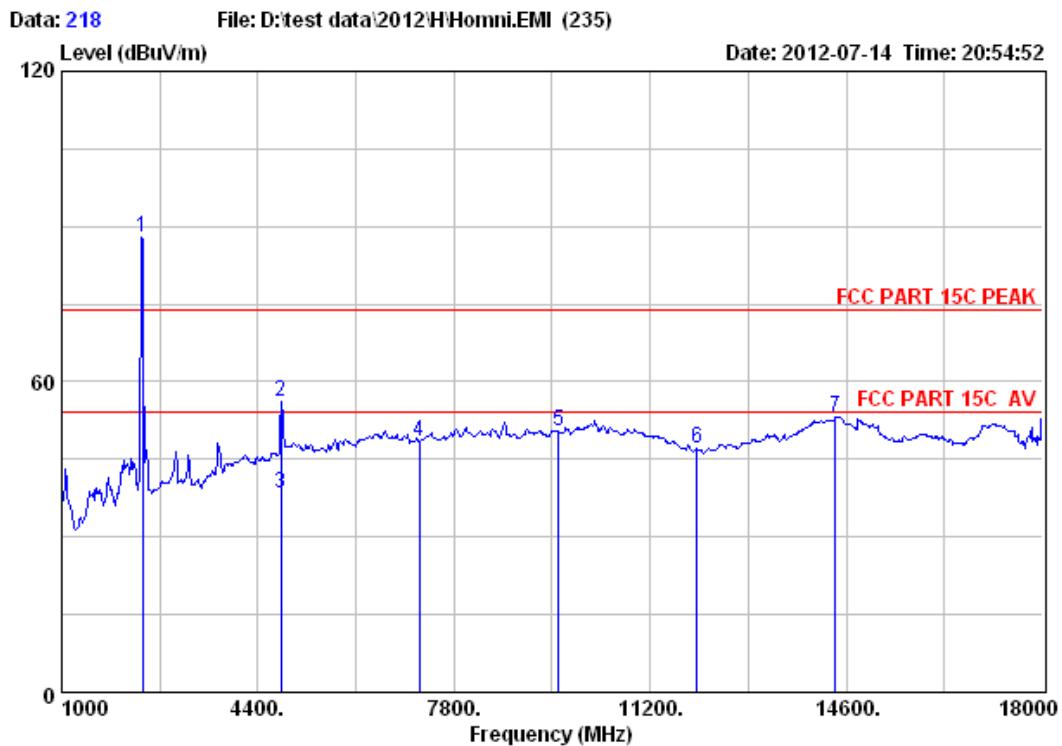
Site no. : 3m Chamber Data no. : 209
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2480MHz

		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	2480.00	27.58	6.71	34.03	90.64	90.90	74.00	-16.90 Peak	
2	4960.00	31.49	12.44	31.97	54.45	66.41	74.00	7.59 Peak	
3	4960.00	31.49	12.44	31.97	35.84	47.80	54.00	6.20 Average	
4	7440.00	36.54	11.61	31.93	35.05	51.27	74.00	22.73 Peak	
5	9920.00	38.14	11.61	31.76	34.50	52.49	74.00	21.51 Peak	
6	12400.00	38.73	10.99	35.36	34.95	49.31	74.00	24.69 Peak	
7	14880.00	40.59	10.88	34.45	35.30	52.32	74.00	21.68 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. : 218
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2402.00	27.61	6.62	34.18	88.00	88.05	74.00	-14.05	Peak	
2 4804.00	31.25	11.77	31.81	44.84	56.05	74.00	17.95	Peak	
3 4804.00	31.25	11.77	31.81	27.19	38.40	54.00	15.60	Average	
4 7206.00	36.52	11.54	32.11	32.65	48.60	74.00	25.40	Peak	
5 9608.00	37.91	11.69	31.93	32.75	50.42	74.00	23.58	Peak	
6 12010.00	38.62	11.40	35.53	32.56	47.05	74.00	26.95	Peak	
7 14412.00	41.80	10.92	32.78	33.18	53.12	74.00	20.88	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.

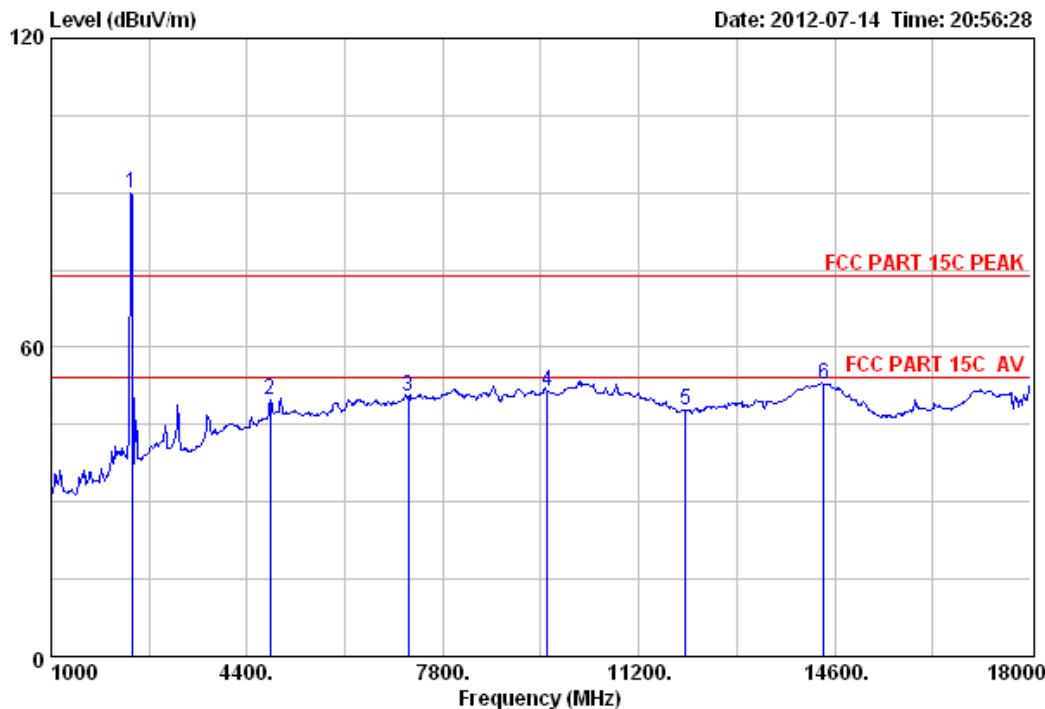
EST Technology

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Data: 219

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:56:28



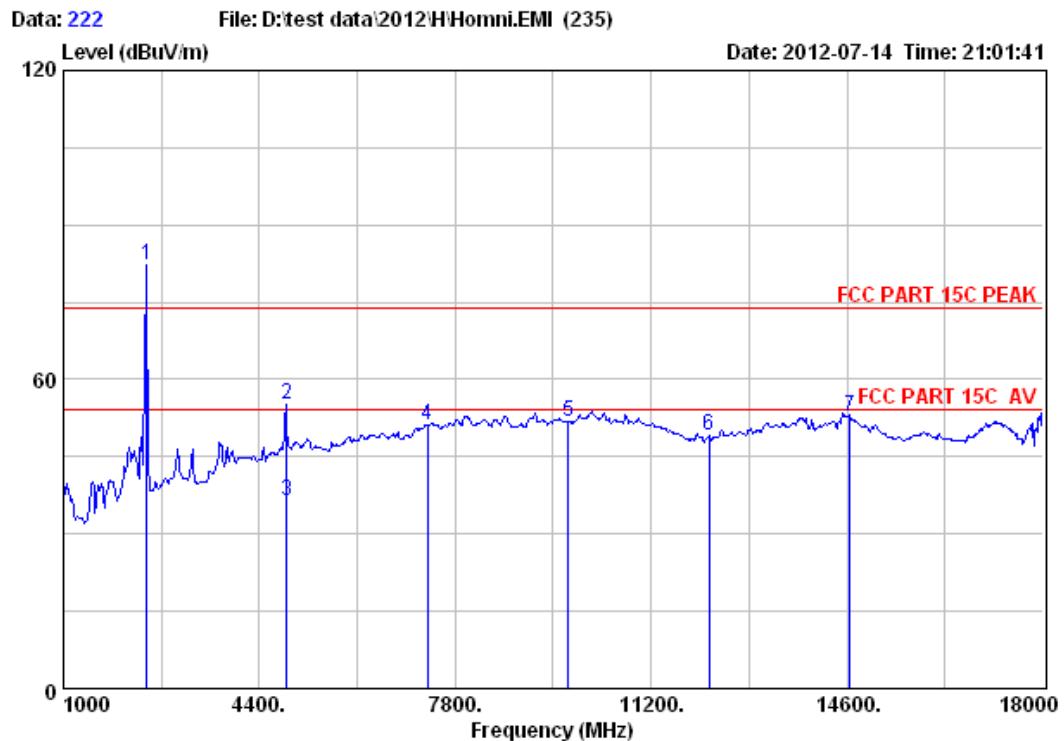
Site no. : 3m Chamber Data no. : 219
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2402.00	27.61	6.62	34.18	89.80	89.85	74.00	-15.85	Peak
2 4804.00	31.25	11.77	31.81	38.67	49.88	74.00	24.12	Peak
3 7206.00	36.52	11.54	32.11	34.61	50.56	74.00	23.44	Peak
4 9608.00	37.91	11.69	31.93	33.95	51.62	74.00	22.38	Peak
5 12010.00	38.62	11.40	35.53	33.44	47.93	74.00	26.07	Peak
6 14412.00	41.80	10.92	32.78	32.86	52.80	74.00	21.20	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. : 222
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2441.00	27.60	6.67	34.12	82.05	82.20	74.00	-8.20	Peak
2 4882.00	31.37	12.07	31.90	43.62	55.16	74.00	18.84	Peak
3 4882.00	31.37	12.07	31.90	24.96	36.50	54.00	17.50	Average
4 7323.00	36.55	11.57	31.99	34.95	51.08	74.00	22.92	Peak
5 9764.00	38.13	11.64	31.86	33.95	51.86	74.00	22.14	Peak
6 12205.00	38.68	11.20	35.71	34.81	48.98	74.00	25.02	Peak
7 14646.00	41.42	10.91	33.62	33.98	52.69	74.00	21.31	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.

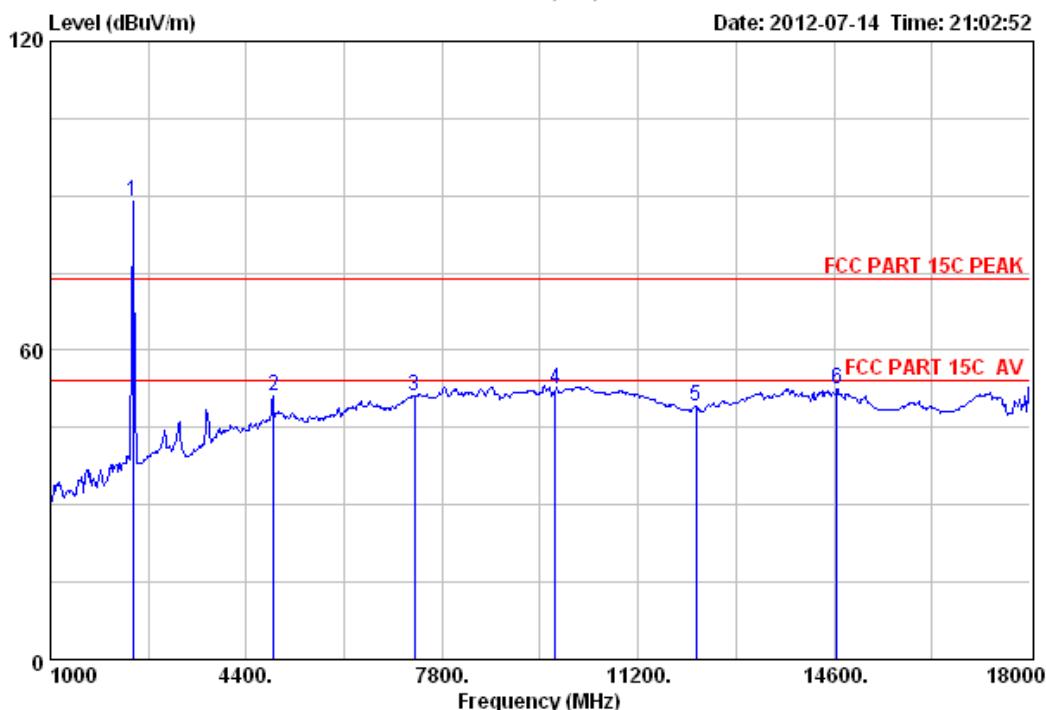
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Data: 223

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 21:02:52



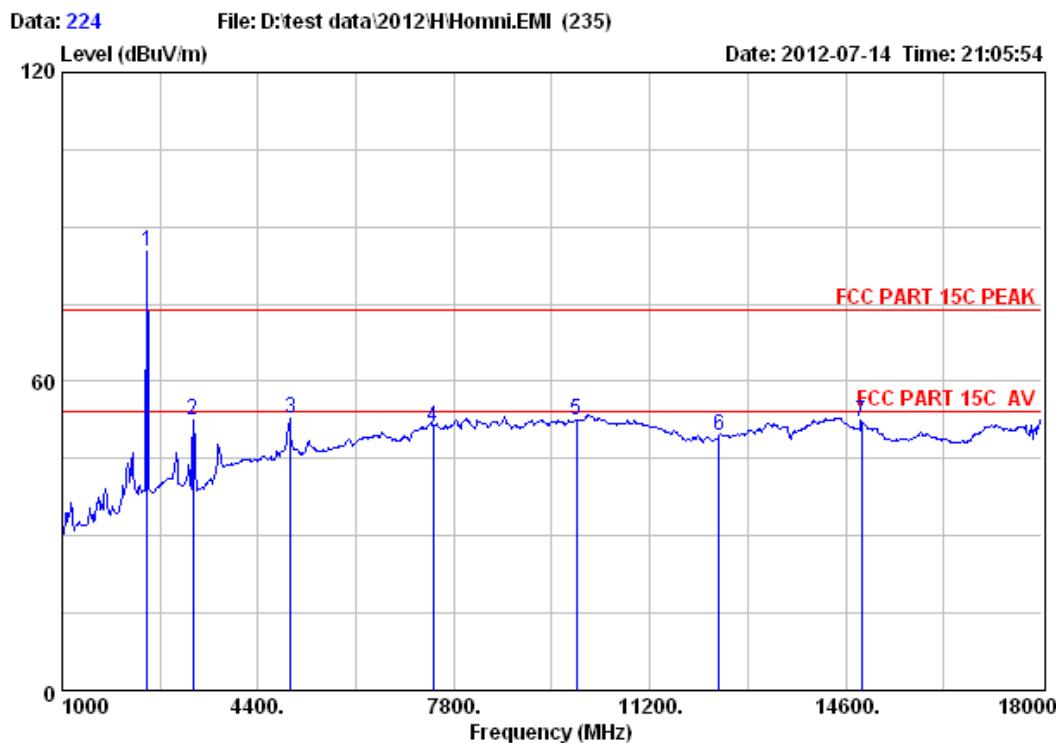
Site no. : 3m Chamber Data no. : 223
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2441MHz

	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	2428.00	27.60	6.66	34.12	88.62	88.76	74.00	-14.76	Peak
2	4882.00	31.37	12.07	31.90	39.67	51.21	74.00	22.79	Peak
3	7323.00	36.55	11.57	31.99	35.06	51.19	74.00	22.81	Peak
4	9764.00	38.13	11.64	31.86	34.55	52.46	74.00	21.54	Peak
5	12205.00	38.68	11.20	35.71	35.11	49.28	74.00	24.72	Peak
6	14646.00	41.42	10.91	33.62	33.73	52.44	74.00	21.56	Peak

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

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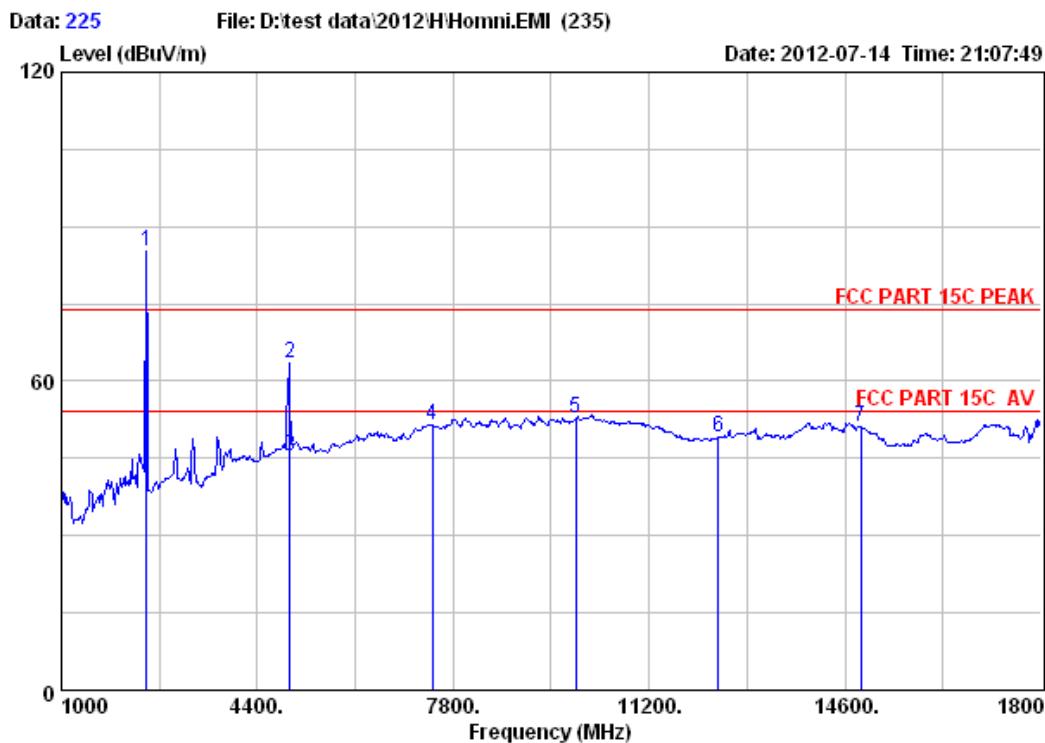
Site no. : 3m Chamber Data no. : 224
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2480MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1 2480.00	27.58	6.71	34.03	85.12	85.38	74.00	-11.38	Peak
2 3278.00	27.88	8.85	33.05	48.84	52.52	74.00	21.48	Peak
3 4960.00	31.49	12.44	31.97	40.89	52.85	74.00	21.15	Peak
4 7440.00	36.54	11.61	31.93	35.02	51.24	74.00	22.76	Peak
5 9920.00	38.14	11.61	31.76	34.55	52.54	74.00	21.46	Peak
6 12400.00	38.73	10.99	35.36	35.04	49.40	74.00	24.60	Peak
7 14880.00	40.59	10.88	34.45	35.01	52.03	74.00	21.97	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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Site no. : 3m Chamber Data no. : 225
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2480MHz

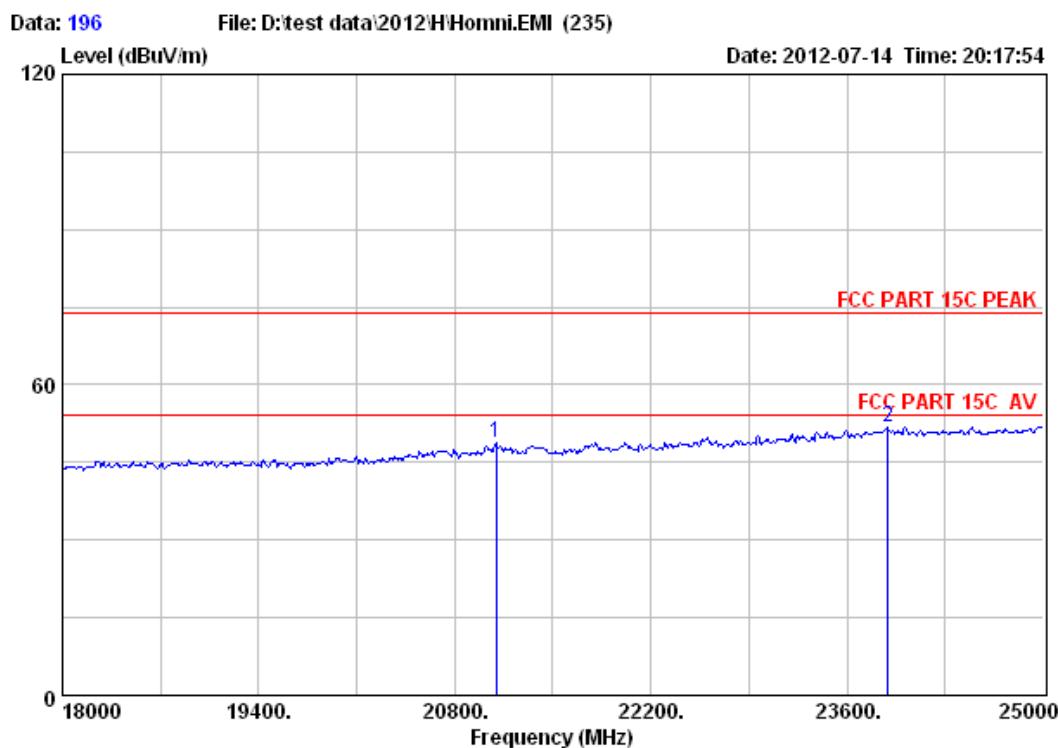
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2480.00	27.58	6.71	34.03	85.00	85.26	74.00	-11.26	Peak
2 4960.00	31.49	12.44	31.97	51.53	63.49	74.00	10.51	Peak
3 4960.00	31.49	12.44	31.97	33.34	45.30	54.00	8.70	Average
4 7440.00	36.54	11.61	31.93	35.14	51.36	74.00	22.64	Peak
5 9920.00	38.14	11.61	31.76	34.70	52.69	74.00	21.31	Peak
6 12400.00	38.73	10.99	35.36	34.67	49.03	74.00	24.97	Peak
7 14880.00	40.59	10.88	34.45	34.01	51.03	74.00	22.97	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.

18000MHz – 25000MHz

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Site no. : 3m Chamber Data no. : 196
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dBuV/m)	Remark
1 21094.00	46.23	20.17	35.71	17.97	48.66	74.00	25.34	Peak
2 23894.00	45.62	21.95	32.90	17.01	51.68	74.00	22.32	Peak

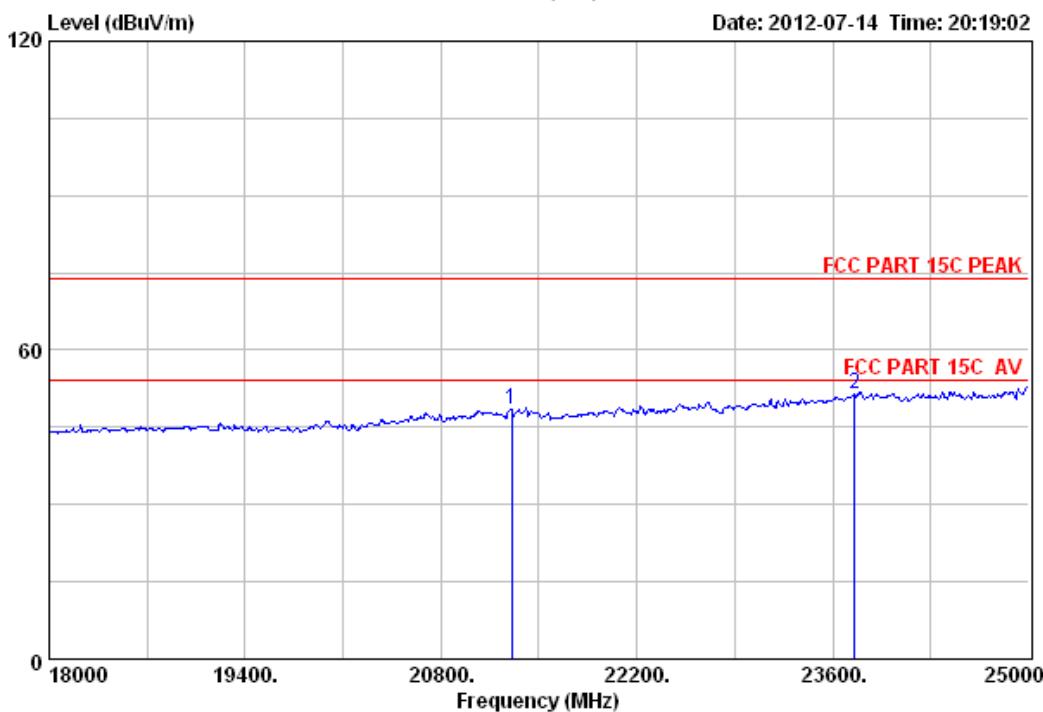
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 197 File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:19:02



Site no. : 3m Chamber Data no. : 197
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				Remark
				Reading	Level	Limits	Margin	
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	21304.00	46.12	20.26	35.53	17.70	48.55	74.00	25.45 Peak
2	23754.00	45.65	21.82	33.06	17.01	51.42	74.00	22.58 Peak

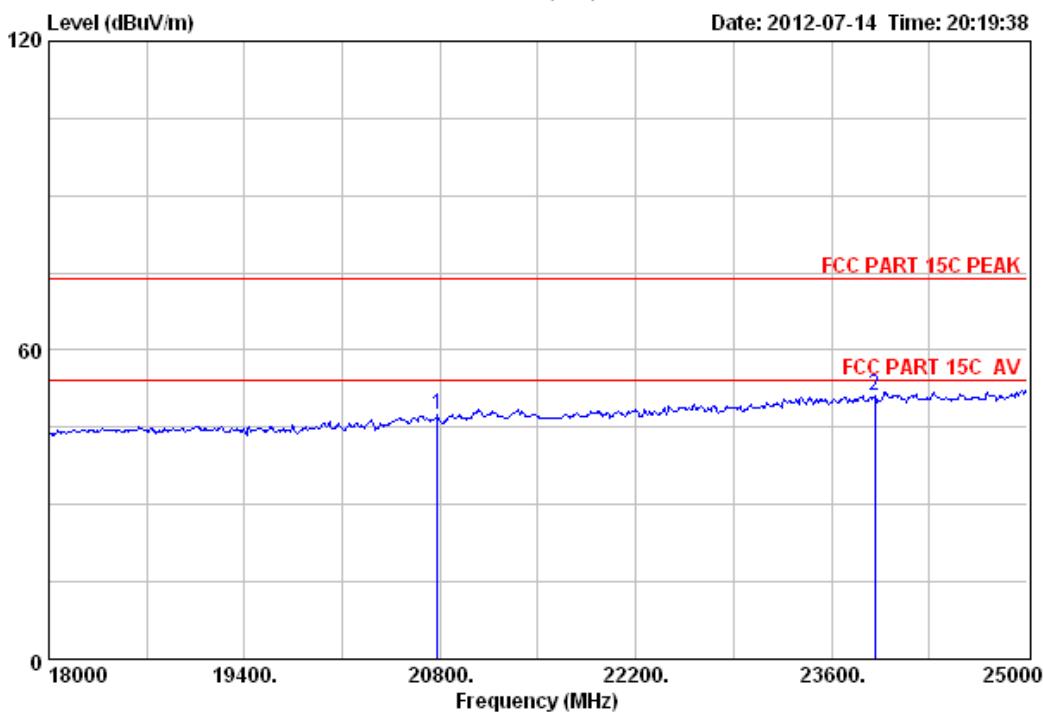
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 198 File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:19:38



Site no. : 3m Chamber Data no. : 198
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 20779.00	46.16	20.03	36.00	17.14	47.33	74.00	26.67	Peak
2 23908.00	45.62	21.96	32.90	16.59	51.27	74.00	22.73	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.

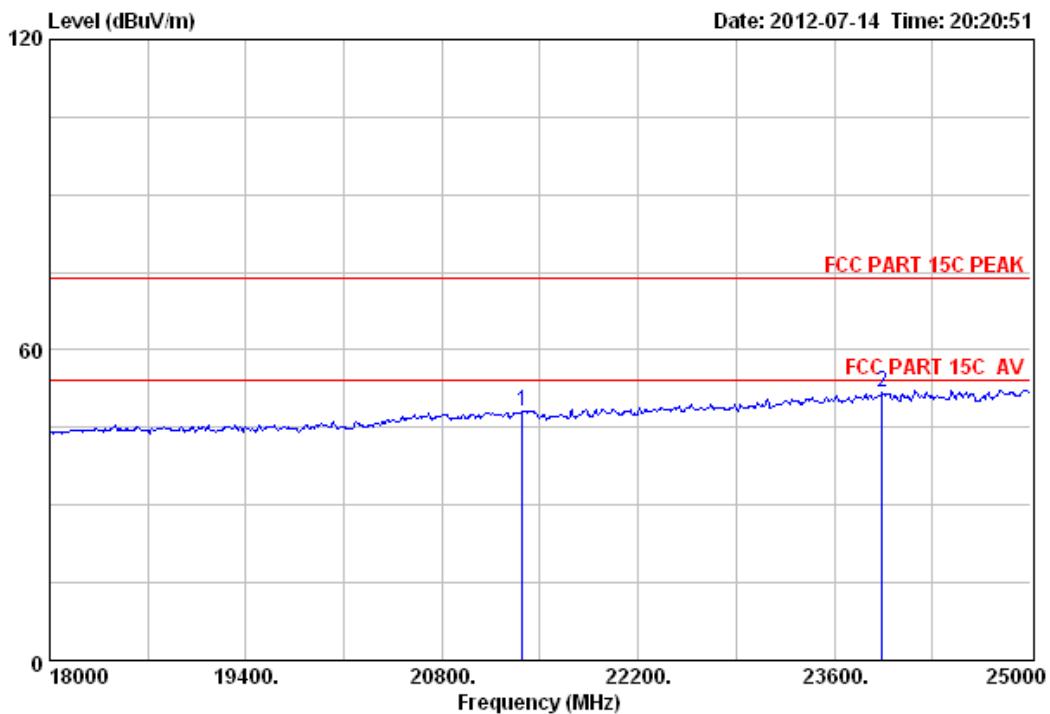
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Data: 199

File: D:\test data\2012\HHomni.EMI (235)

Date: 2012-07-14 Time: 20:20:51



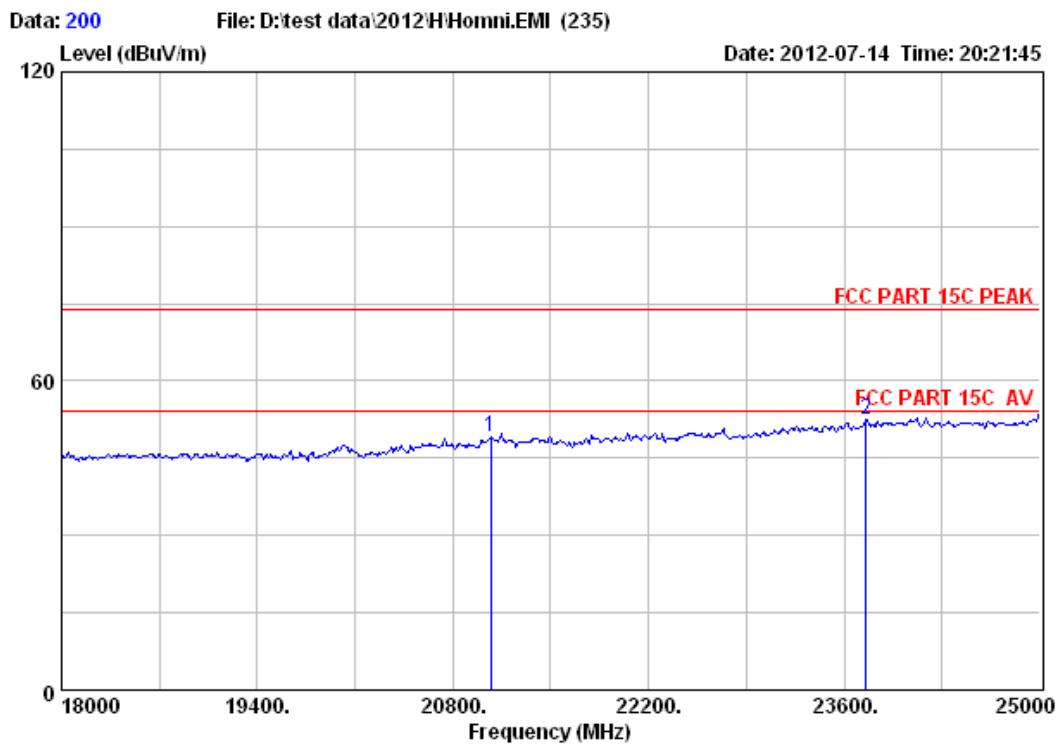
Site no. : 3m Chamber Data no. : 199
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21374.00	46.08	20.29	35.46	17.31	48.22	74.00	25.78	Peak
2 23943.00	45.61	21.99	32.85	16.99	51.74	74.00	22.26	Peak

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

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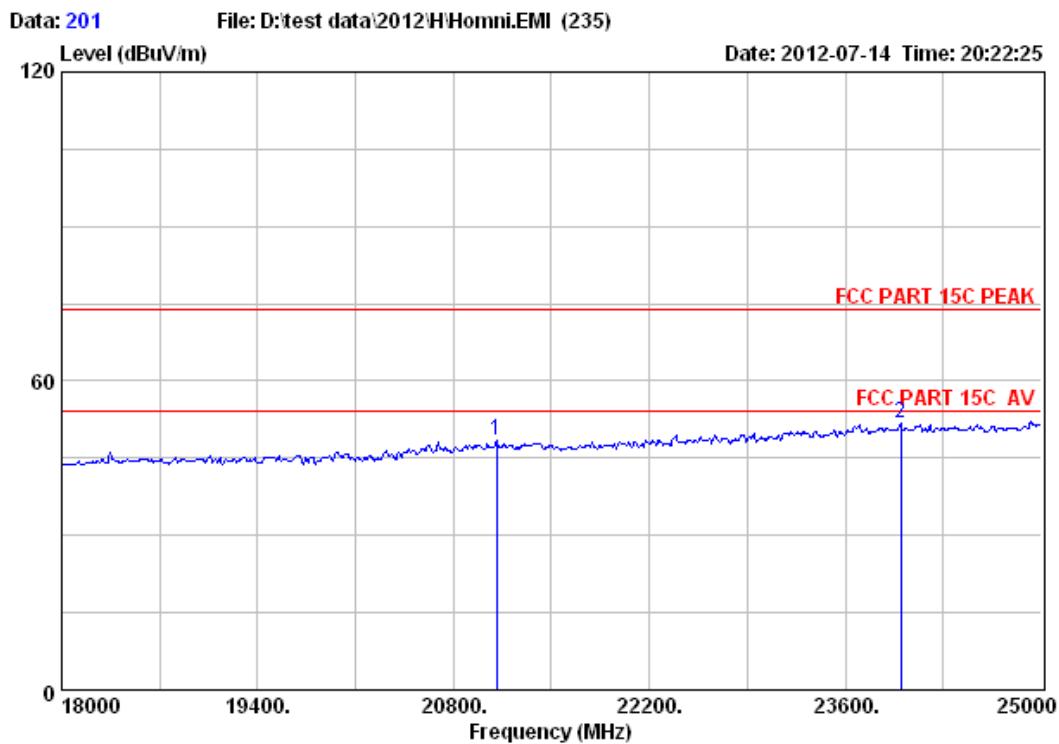
Site no. : 3m Chamber Data no. : 200
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21073.00	46.25	20.16	35.73	18.40	49.08	74.00	24.92	Peak
2 23754.00	45.65	21.82	33.06	18.08	52.49	74.00	21.51	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. : 201
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2441MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21108.00	46.23	20.18	35.71	17.72	48.42	74.00	25.58	Peak
2 23999.00	45.60	22.05	32.80	17.12	51.97	74.00	22.03	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

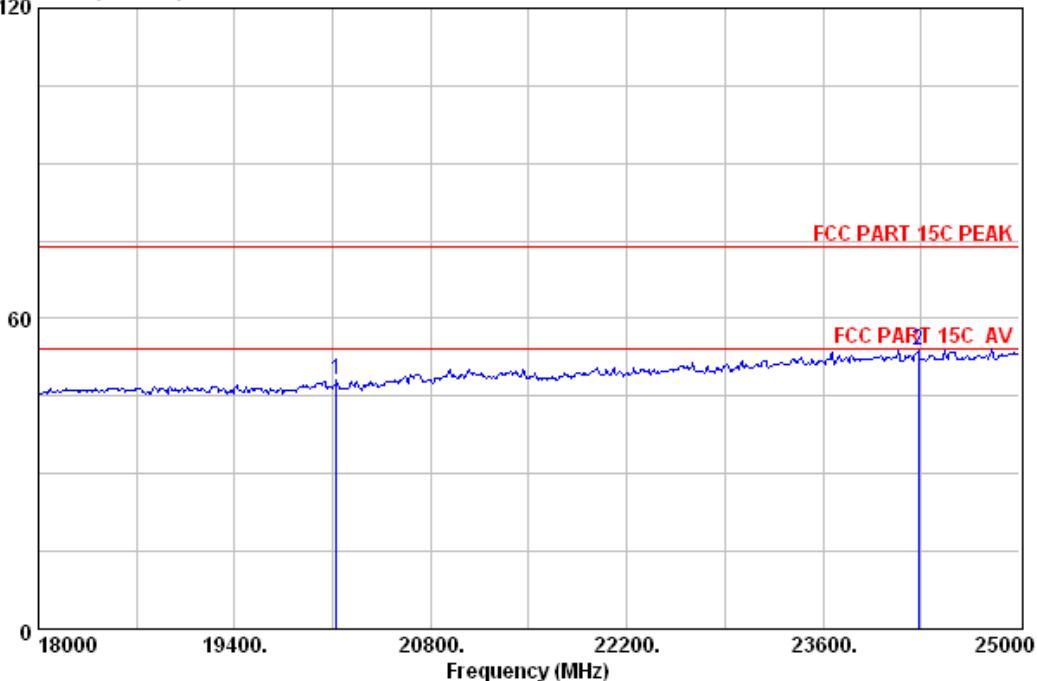
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Data: 212

File: D:\test data\2012\HHomni.EMI (235)

Level (dBuV/m)

Date: 2012-07-14 Time: 20:47:22



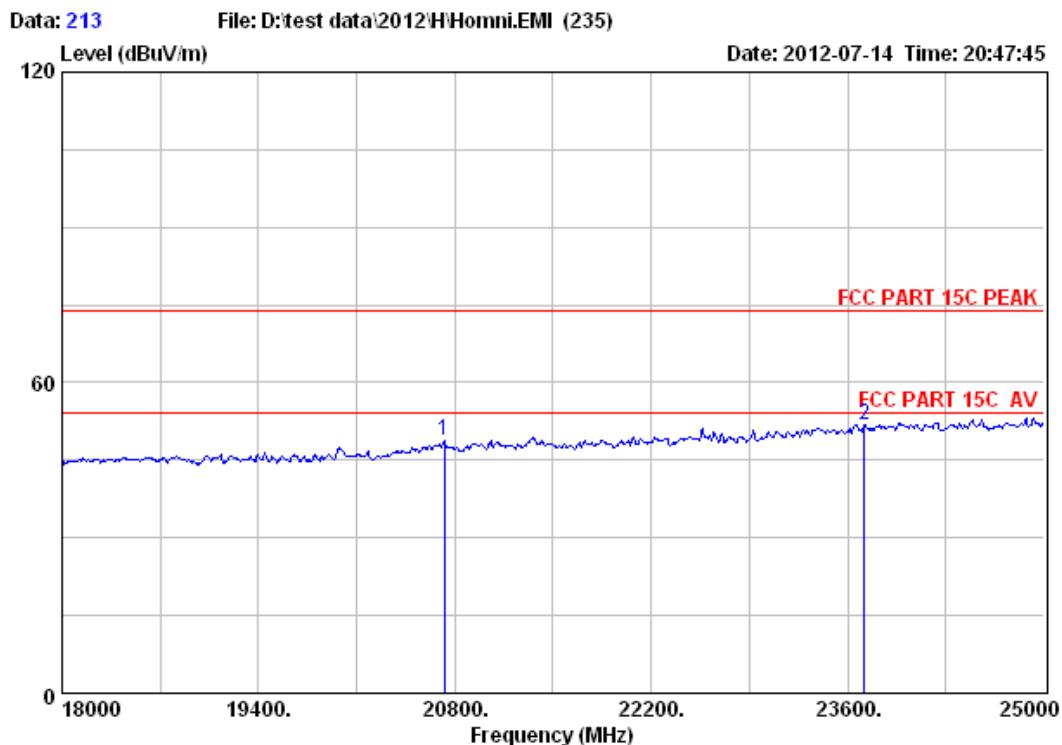
Site no. : 3m Chamber Data no. : 212
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission					Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 20128.00	46.07	19.74	36.59	18.83	48.05	74.00	25.95	Peak	
2 24279.00	45.65	22.20	33.23	19.28	53.90	74.00	20.10	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. : 213
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2480MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 20723.00	46.14	20.01	36.05	18.61	48.71	74.00	25.29	Peak
2 23719.00	45.66	21.79	33.09	17.57	51.93	74.00	22.07	Peak

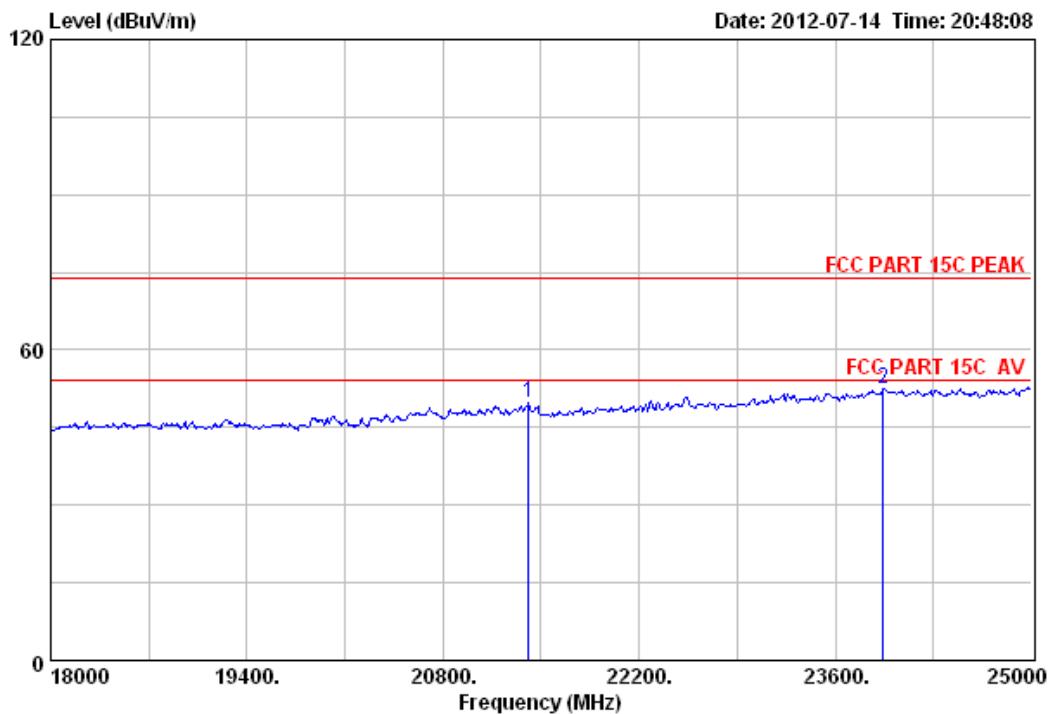
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 214

File: D:\test data\2012\HHomni.EMI (235)



Site no. : 3m Chamber Data no. : 214
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : π/4-DQPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21409.00	46.05	20.31	35.44	18.82	49.74	74.00	24.26	Peak
2 23943.00	45.61	21.99	32.85	17.85	52.60	74.00	21.40	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.

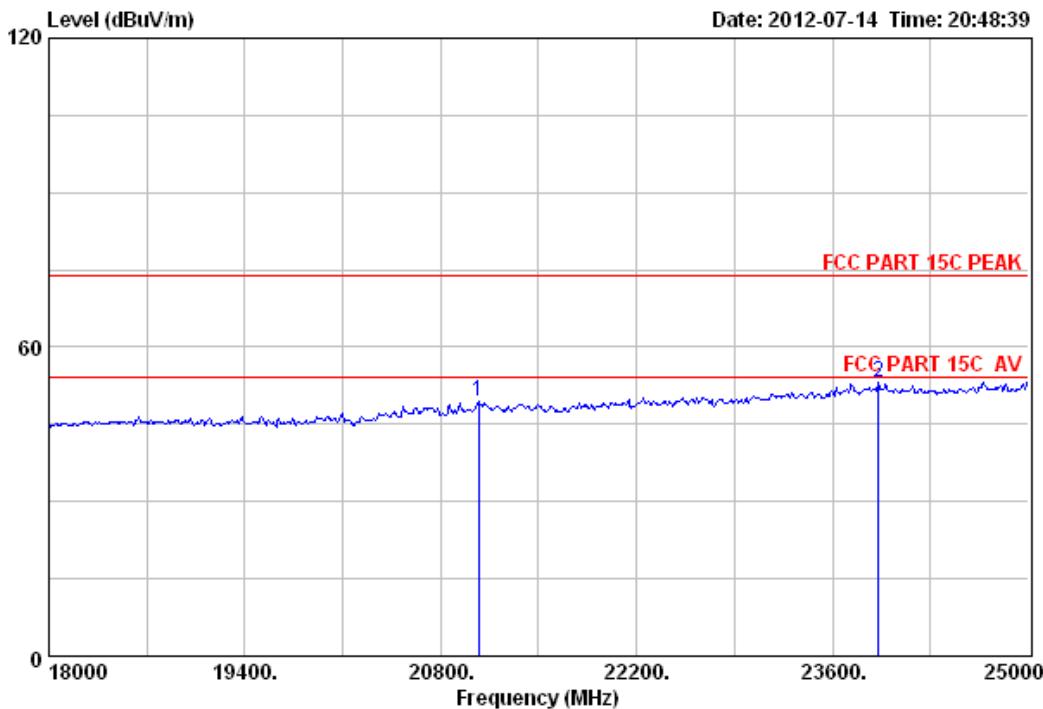
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Data: 215

File: D:\test data\2012\H\Honni.EMI (235)

Date: 2012-07-14 Time: 20:48:39



Site no. : 3m Chamber Data no. : 215
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2402MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
				(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	21073.00	46.25	20.16	35.73	18.88	49.56	74.00	24.44 Peak
2	23929.00	45.61	21.99	32.88	18.27	52.99	74.00	21.01 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.

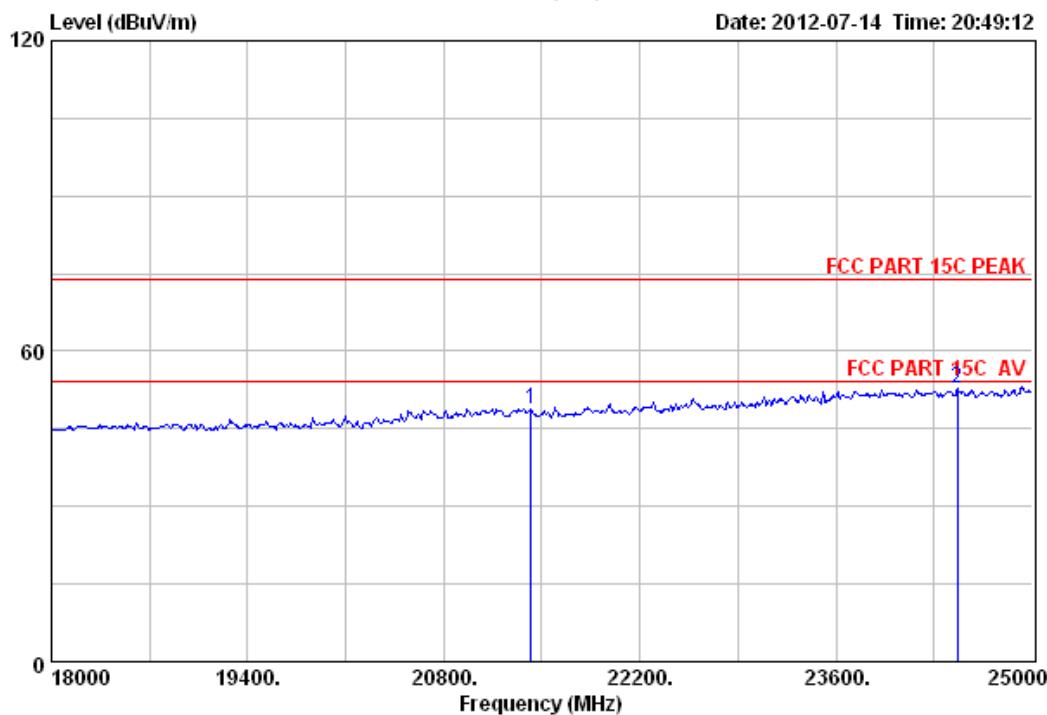
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Data: 216

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:49:12



Site no. : 3m Chamber Data no. : 216
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2441MHz

Freq. (MHz)	Ant. Factor	Cable Loss (dB/m)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 21423.00	46.04	20.31	35.42	18.02	48.95	74.00	25.05	Peak
2 24468.00	45.70	22.30	33.54	18.22	52.68	74.00	21.32	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.

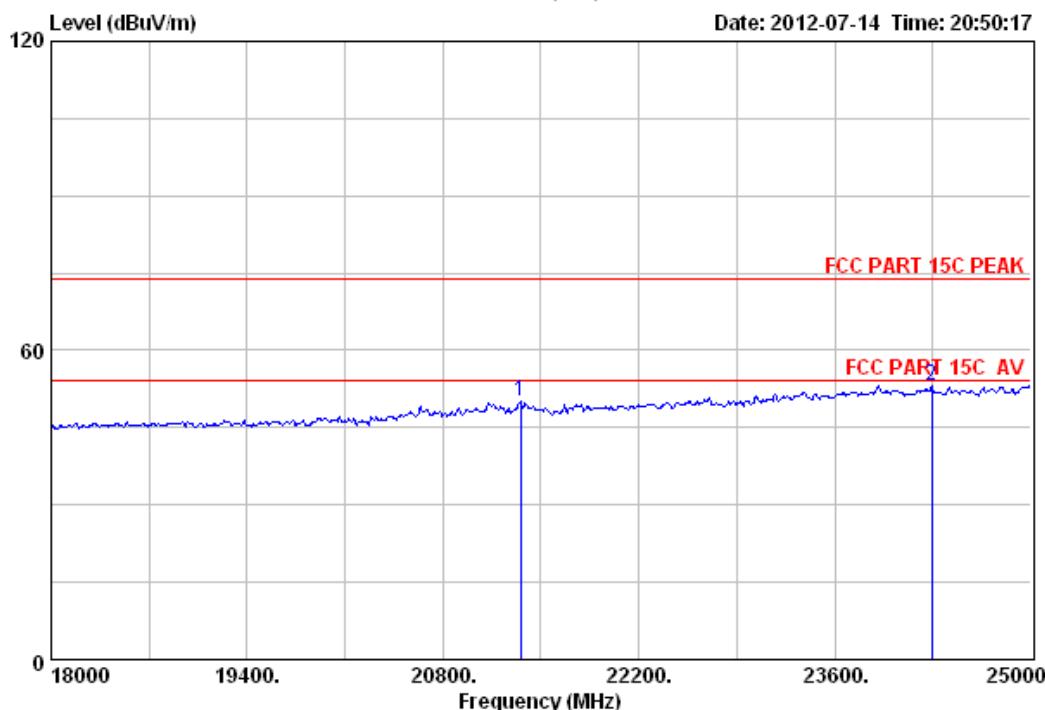
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Data: 217

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:50:17



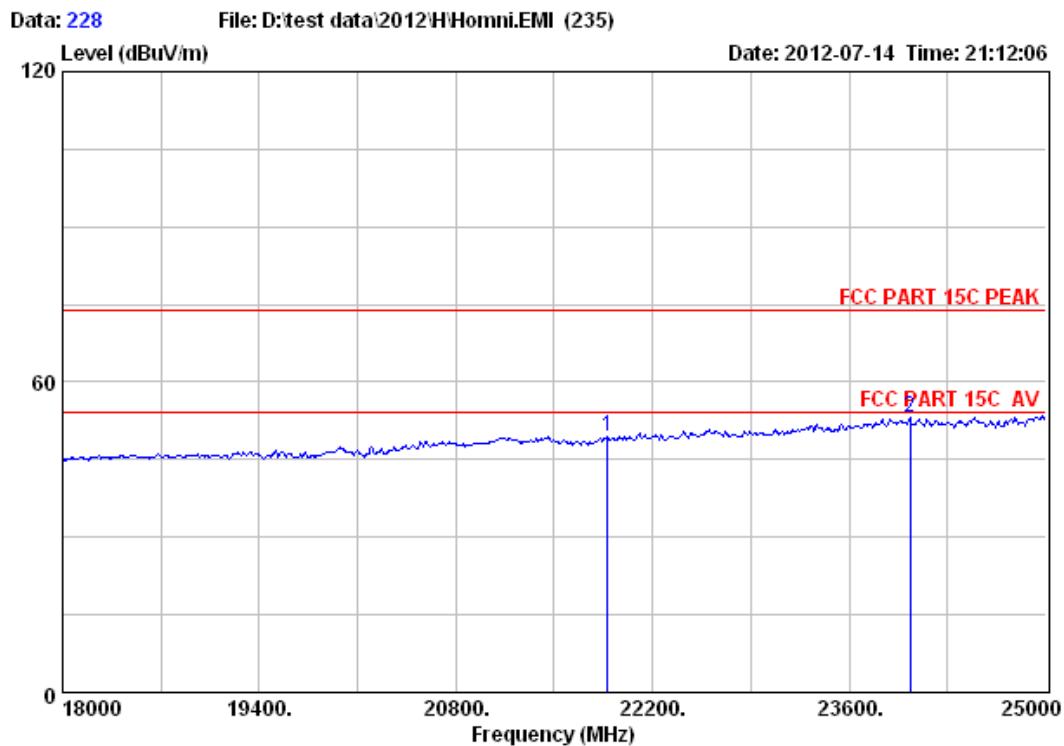
Site no. : 3m Chamber Data no. : 217
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2441MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1 21353.00	46.09	20.28	35.49	19.33	50.21	74.00	23.79	Peak
2 24293.00	45.66	22.21	33.26	18.45	53.06	74.00	20.94	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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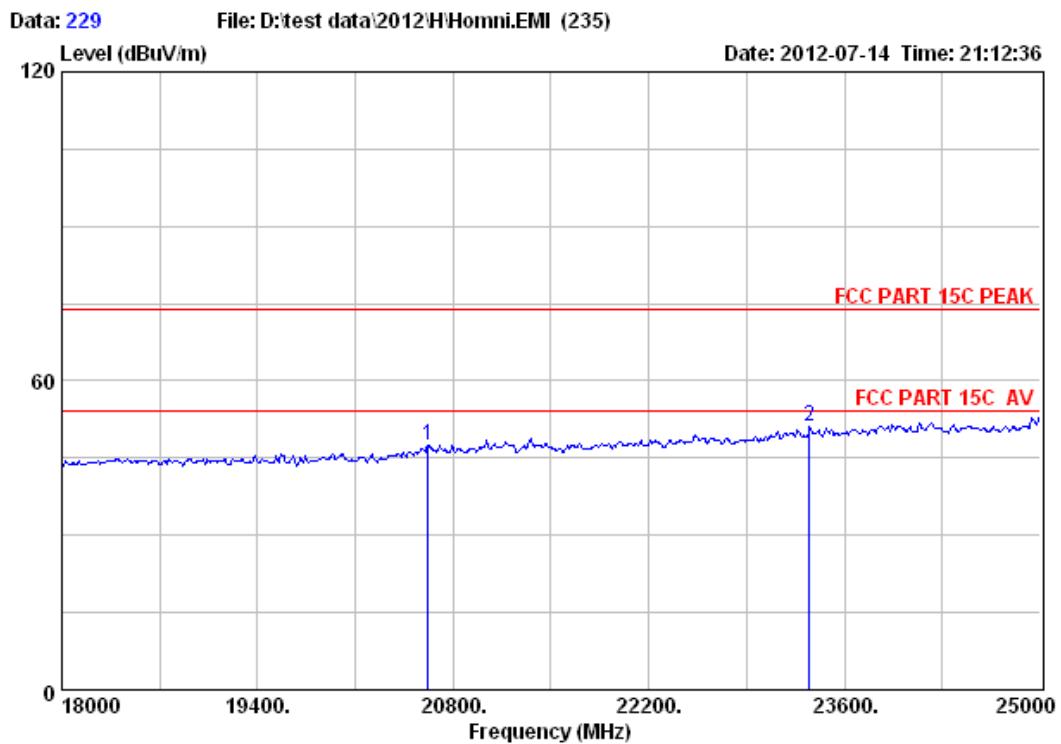
Site no. : 3m Chamber Data no. : 228
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2480MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1 21878.00	45.78	20.51	35.01	18.21	49.49	74.00	24.51	Peak
2 24034.00	45.60	22.06	32.84	18.36	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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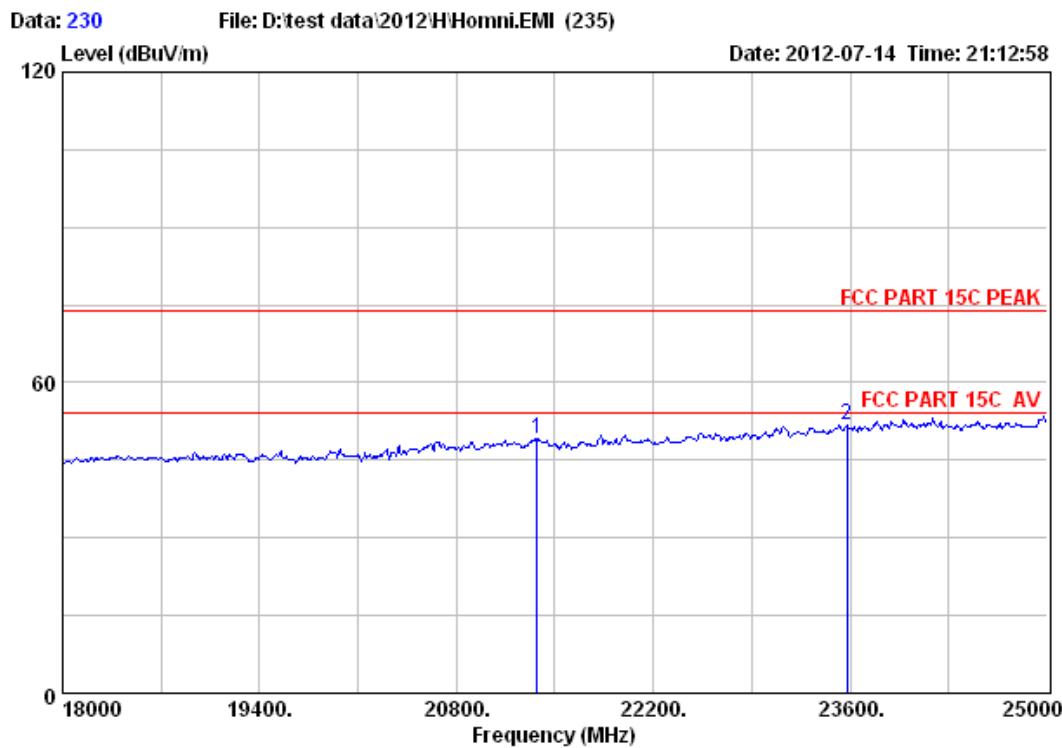
Site no. : 3m Chamber Data no. : 229
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2480MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 20618.00	46.07	19.96	36.14	17.71	47.60	74.00	26.40	Peak
2 23348.00	45.67	21.46	33.48	17.47	51.12	74.00	22.88	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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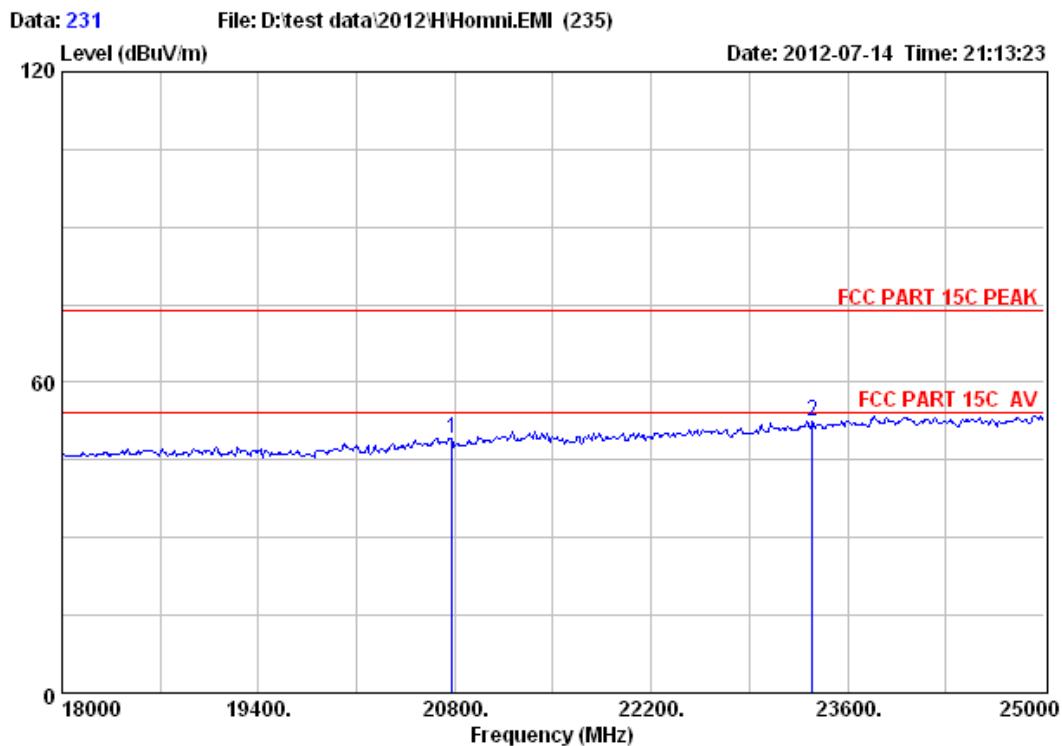
Site no. : 3m Chamber Data no. : 230
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 21374.00	46.08	20.29	35.46	18.24	49.15	74.00	24.85	Peak
2 23579.00	45.68	21.67	33.25	17.64	51.74	74.00	22.26	Peak

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

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Site no. : 3m Chamber Data no. : 231
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 20779.00	46.16	20.03	36.00	19.01	49.20	74.00	24.80	Peak
2 23348.00	45.67	21.46	33.48	18.96	52.61	74.00	21.39	Peak

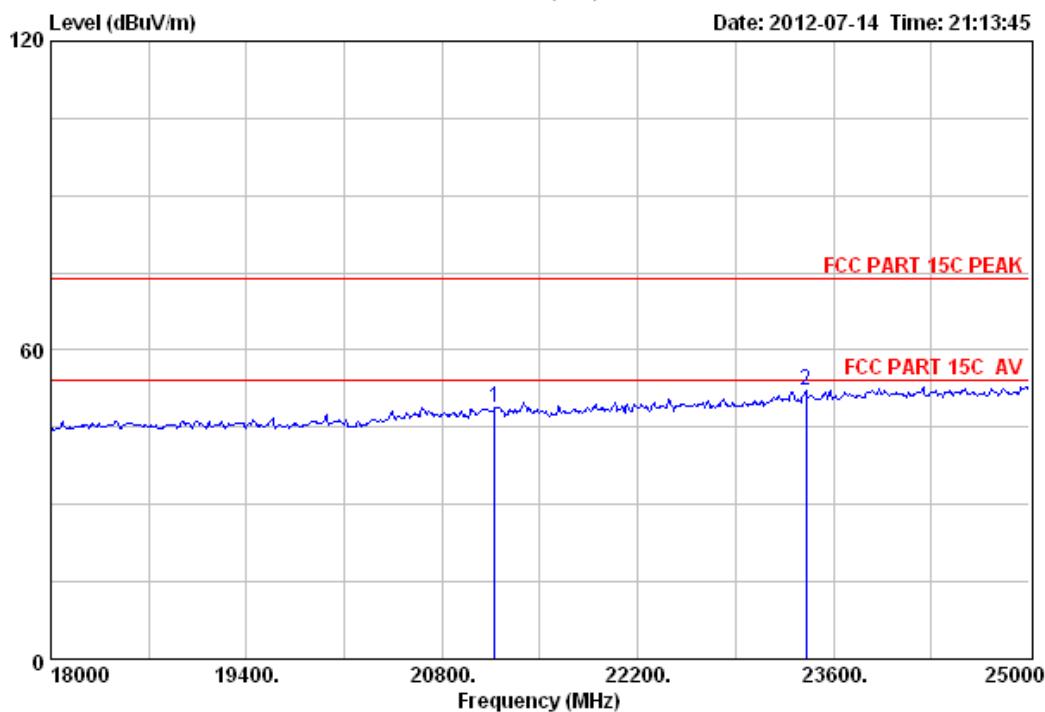
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 232 File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 21:13:45



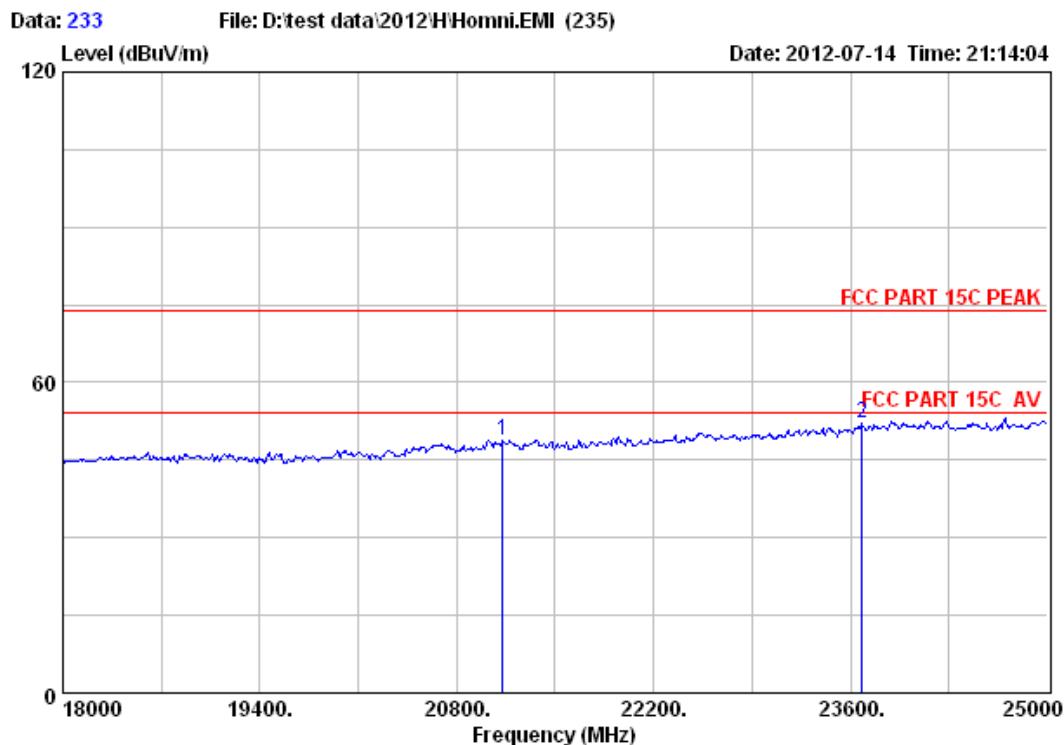
Site no. : 3m Chamber Data no. : 232
 Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2441MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				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	18.01	48.78	74.00	25.22	Peak
2 23404.00	45.68	21.51	33.43	18.23	51.99	74.00	22.01	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. : 233
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2441MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission					Remark
				Reading	Level	Limits	Margin		
1 21129.00	46.22	20.19	35.69	18.19	48.91	74.00	25.09	Peak	
2 23684.00	45.67	21.77	33.14	17.68	51.98	74.00	22.02	Peak	

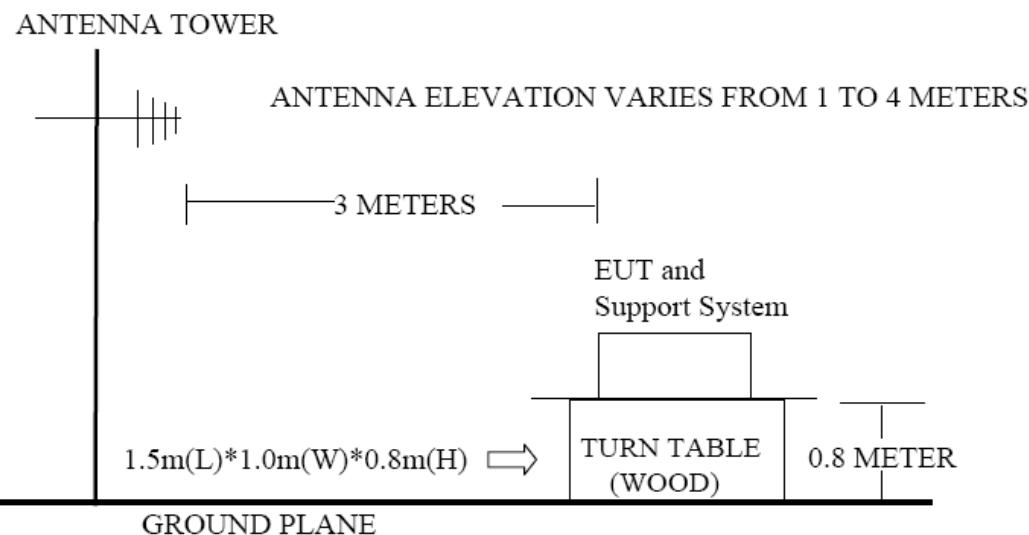
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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

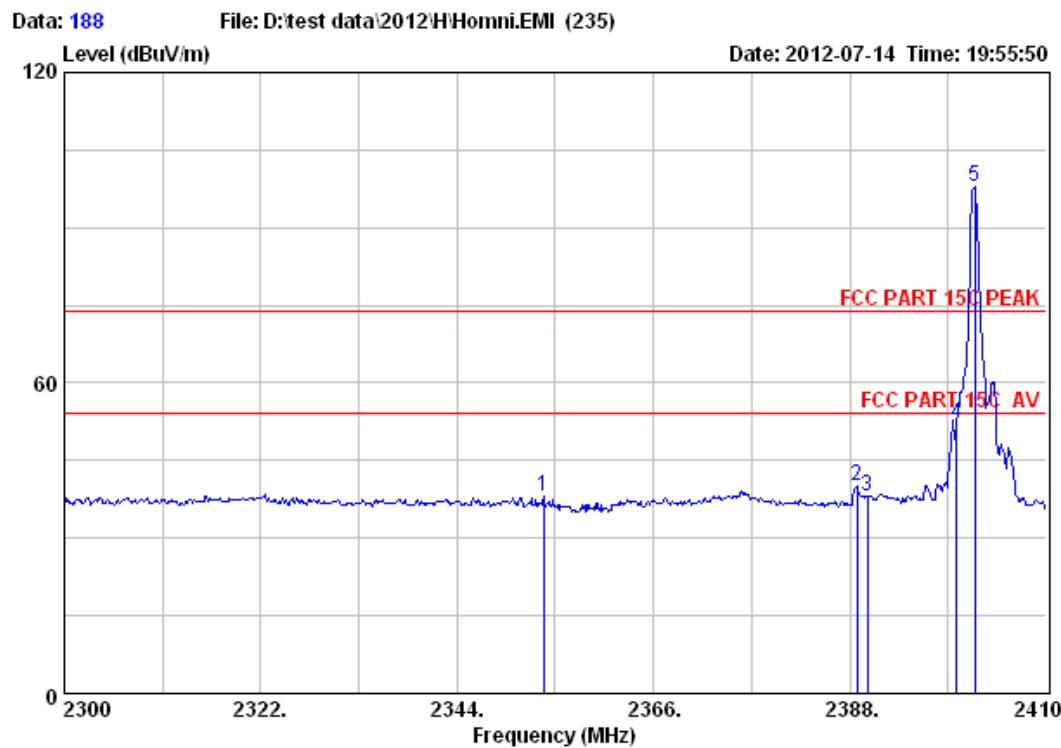
EUT: Transactive Air	M/N:LGAC
Power: AC 120V/60Hz	
Test date: 2012-07-14	Test site: 3m Chamber
Test mode: Tx Mode	
	Pass

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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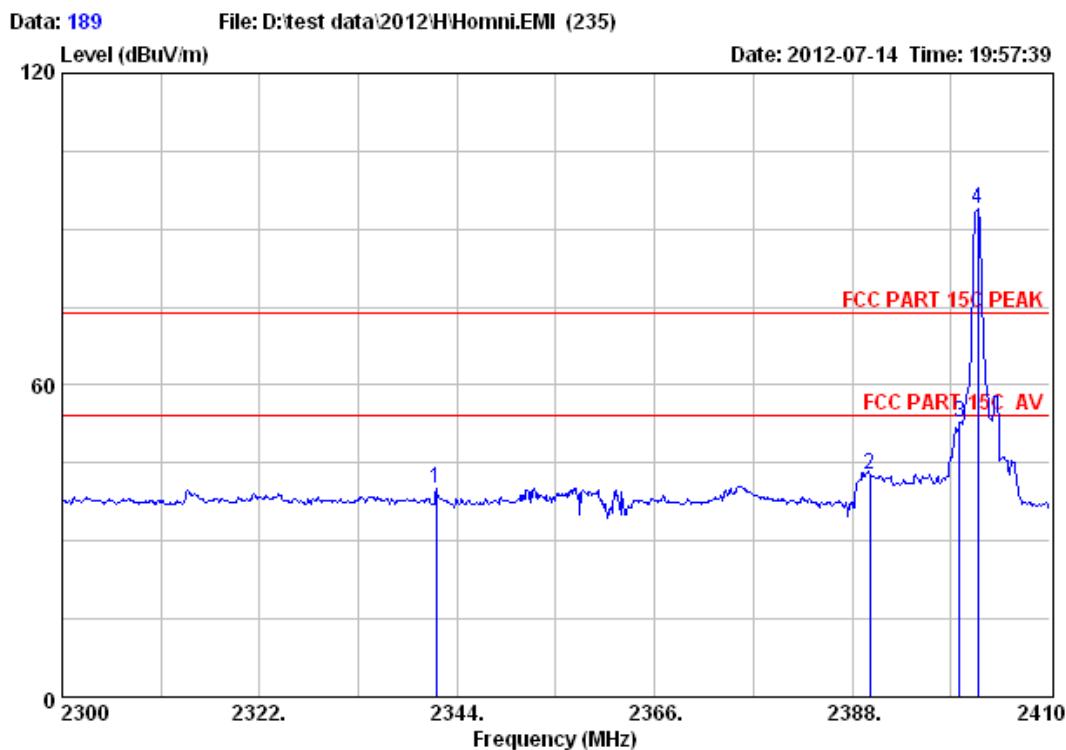
Site no. : 3m Chamber Data no. : 188
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Hum:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2353.68	27.70	6.58	34.22	37.97	38.03	74.00	35.97	Peak
2 2388.77	27.64	6.62	34.19	40.09	40.16	74.00	33.84	Peak
3 2390.00	27.64	6.62	34.19	38.13	38.20	74.00	35.80	Peak
4 2400.00	27.61	6.62	34.18	52.07	52.12	74.00	21.88	Peak
5 2401.97	27.61	6.62	34.18	97.85	97.90	74.00	-23.90	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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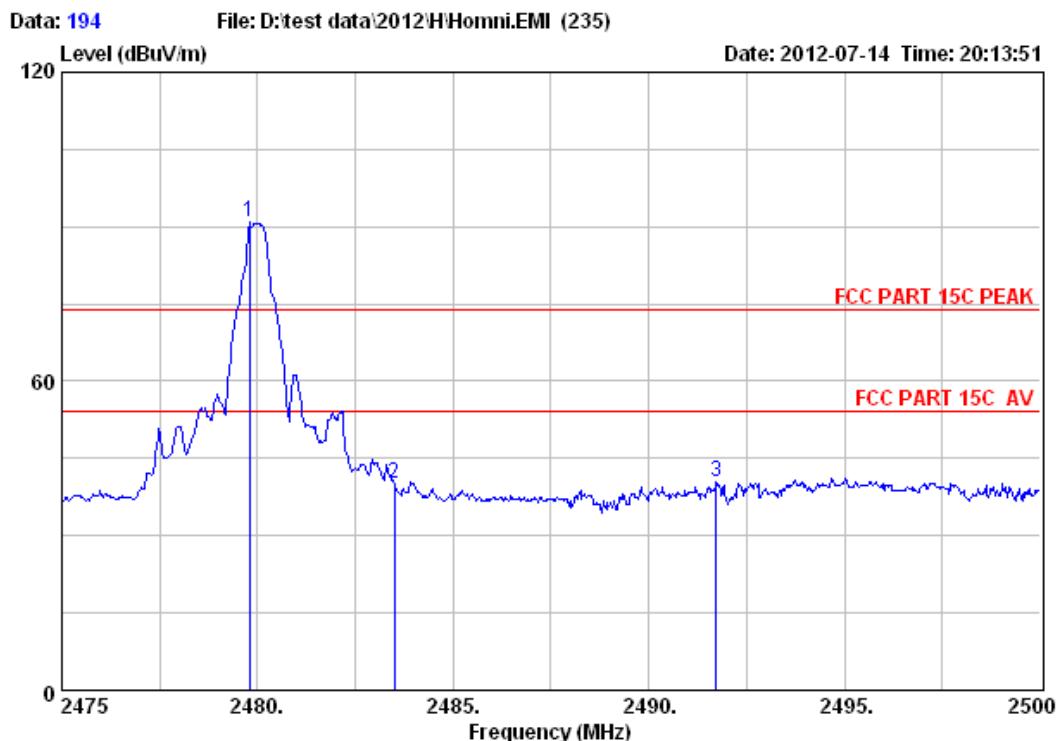
Site no. : 3m Chamber Data no. : 189
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading	Level	Limits	(dBuV/m)		
1 2341.69	27.70	6.56	34.22	40.20	40.24	74.00	33.76	Peak	
2 2390.00	27.64	6.62	34.19	42.77	42.84	74.00	31.16	Peak	
3 2400.00	27.61	6.62	34.18	52.87	52.92	74.00	21.08	Peak	
4 2401.97	27.61	6.62	34.18	93.84	93.89	74.00	-19.89	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.

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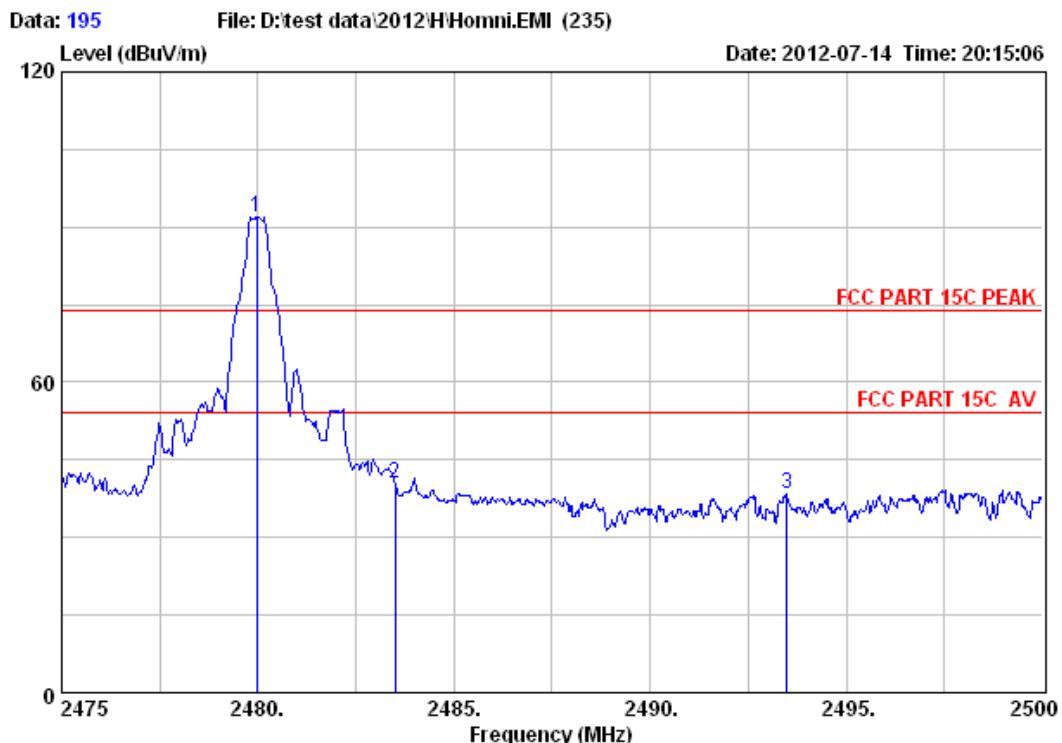
Site no. : 3m Chamber Data no. : 194
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2480MHz

		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	2479.80	27.58	6.71	34.03	90.57	90.83	74.00	-16.83 Peak
2	2483.50	27.58	6.71	34.03	39.90	40.16	74.00	33.84 Peak
3	2491.73	27.58	6.73	34.03	40.10	40.38	74.00	33.62 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.

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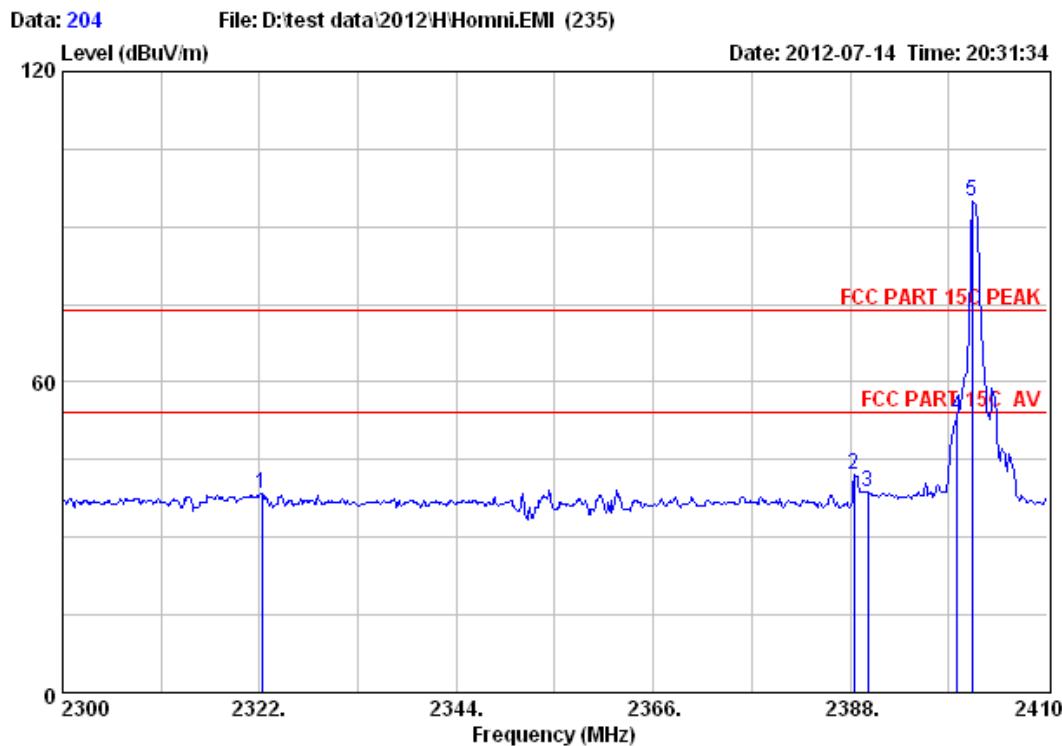
Site no. : 3m Chamber Data no. : 195
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2479.98	27.58	6.71	34.03	91.80	92.06	74.00	-18.06	Peak
2 2483.50	27.58	6.71	34.03	40.15	40.41	74.00	33.59	Peak
3 2493.48	27.58	6.73	34.03	38.20	38.48	74.00	35.52	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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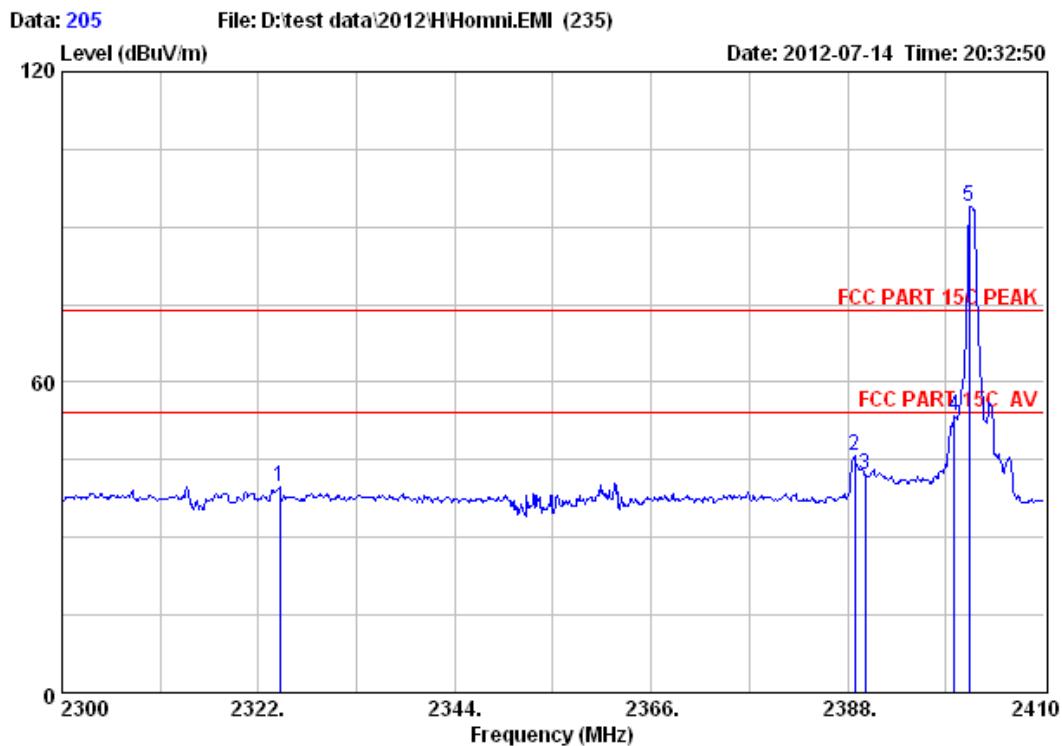
Site no. : 3m Chamber Data no. : 204
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2322.22	27.73	6.54	34.23	38.52	38.56	74.00	35.44	Peak
2 2388.44	27.64	6.62	34.19	41.96	42.03	74.00	31.97	Peak
3 2390.00	27.64	6.62	34.19	38.74	38.81	74.00	35.19	Peak
4 2400.00	27.61	6.62	34.18	53.33	53.38	74.00	20.62	Peak
5 2401.64	27.61	6.62	34.18	94.98	95.03	74.00	-21.03	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. : 205
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/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	2324.42	27.73	6.54	34.23	39.78	39.82	74.00	34.18 Peak	
2	2388.77	27.64	6.62	34.19	45.74	45.81	74.00	28.19 Peak	
3	2390.00	27.64	6.62	34.19	41.96	42.03	74.00	31.97 Peak	
4	2400.00	27.61	6.62	34.18	53.32	53.37	74.00	20.63 Peak	
5	2401.64	27.61	6.62	34.18	94.01	94.06	74.00	-20.06 Peak	

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

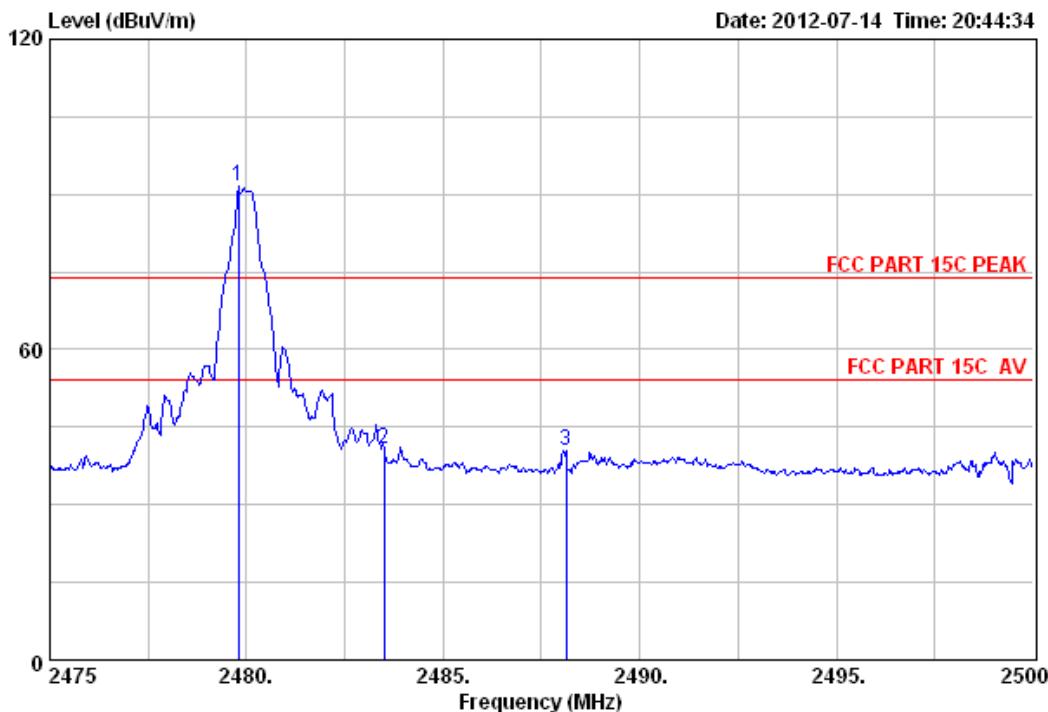
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Data: 210

File: D:\test data\2012\H\Homni.EMI (235)

Date: 2012-07-14 Time: 20:44:34



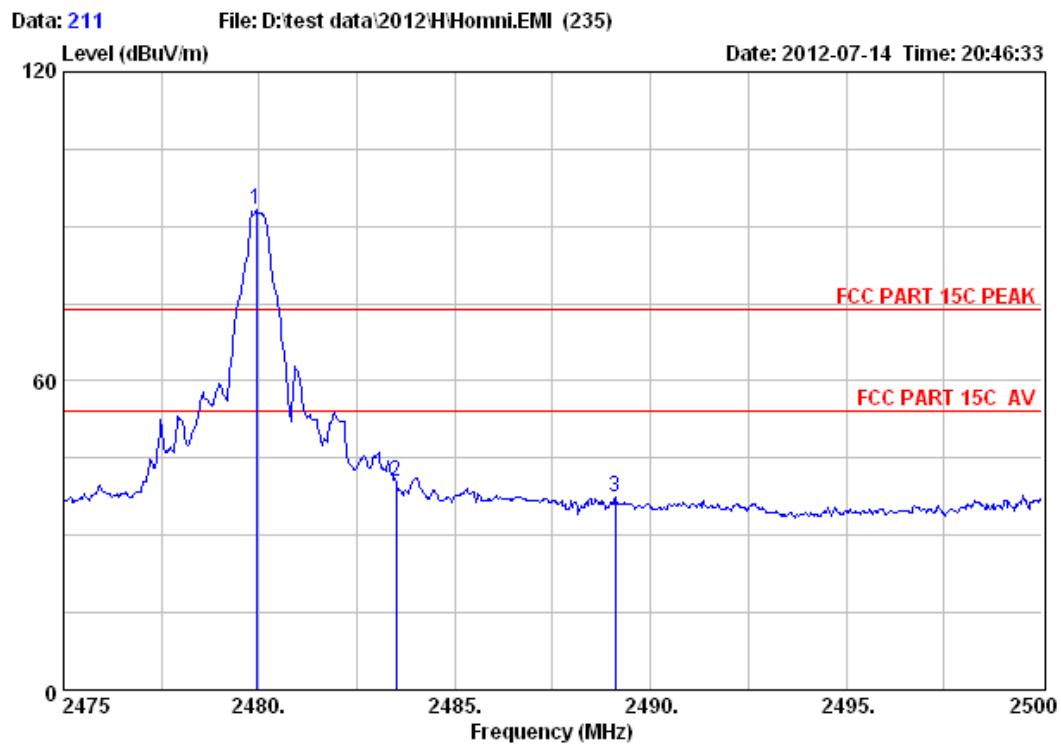
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 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.80	27.58	6.71	34.03	91.28	91.54	74.00	-17.54	Peak
2	2483.50	27.58	6.71	34.03	40.41	40.67	74.00	33.33	Peak
3	2488.13	27.58	6.73	34.03	40.21	40.49	74.00	33.51	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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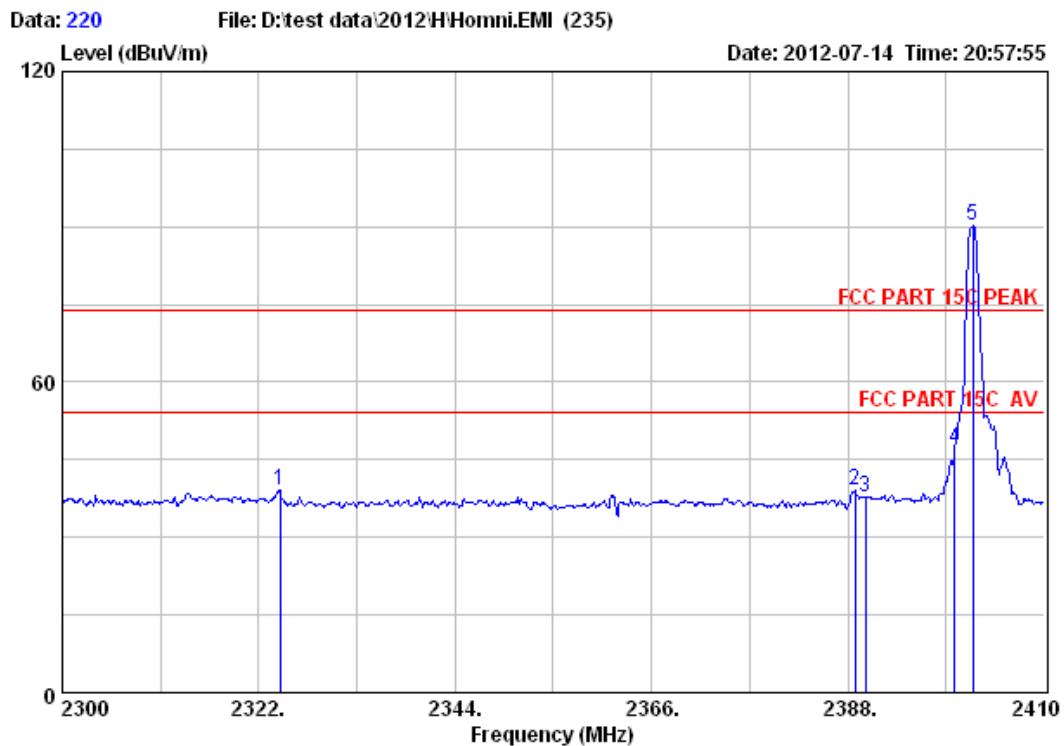
Site no. : 3m Chamber Data no. : 211
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : n/4-DQPSK TX 2480MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1 2479.93	27.58	6.71	34.03	93.13	93.39	74.00	-19.39	Peak
2 2483.50	27.58	6.71	34.03	40.20	40.46	74.00	33.54	Peak
3 2489.10	27.58	6.73	34.03	37.17	37.45	74.00	36.55	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. : 220
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2324.42	27.73	6.54	34.23	39.13	39.17	74.00	34.83	Peak
2 2388.77	27.64	6.62	34.19	38.95	39.02	74.00	34.98	Peak
3 2390.00	27.64	6.62	34.19	37.55	37.62	74.00	36.38	Peak
4 2400.00	27.61	6.62	34.18	46.96	47.01	74.00	26.99	Peak
5 2401.97	27.61	6.62	34.18	90.09	90.14	74.00	-16.14	Peak

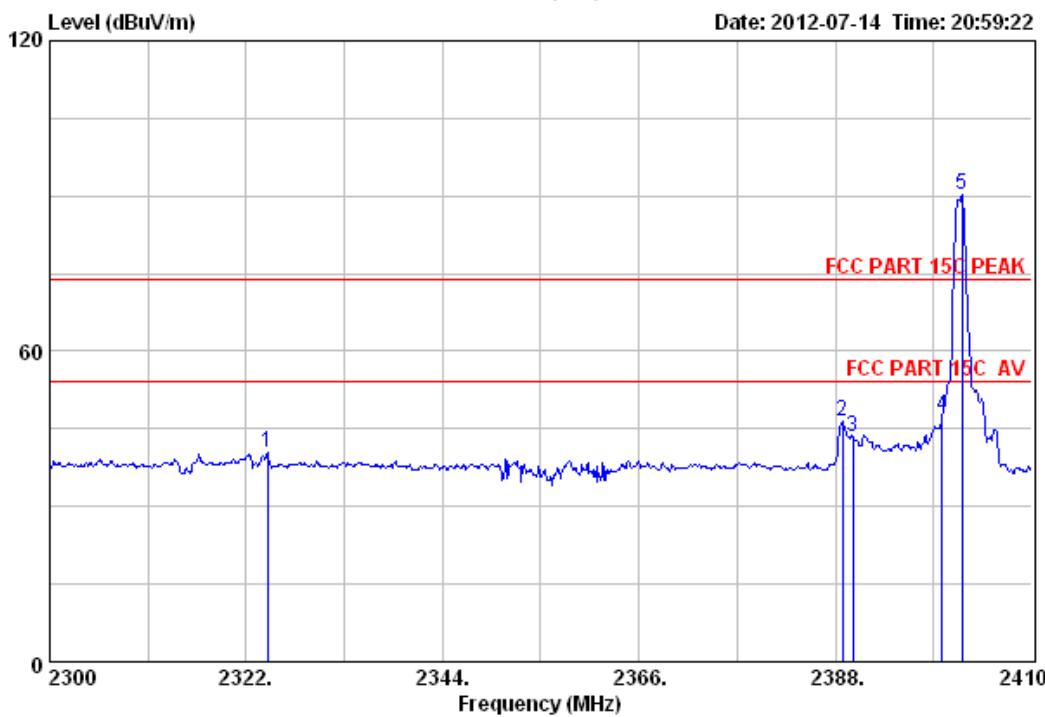
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

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Data: 221 File: D:\test data\2012\H\Honni.EMI (235)

Date: 2012-07-14 Time: 20:59:22



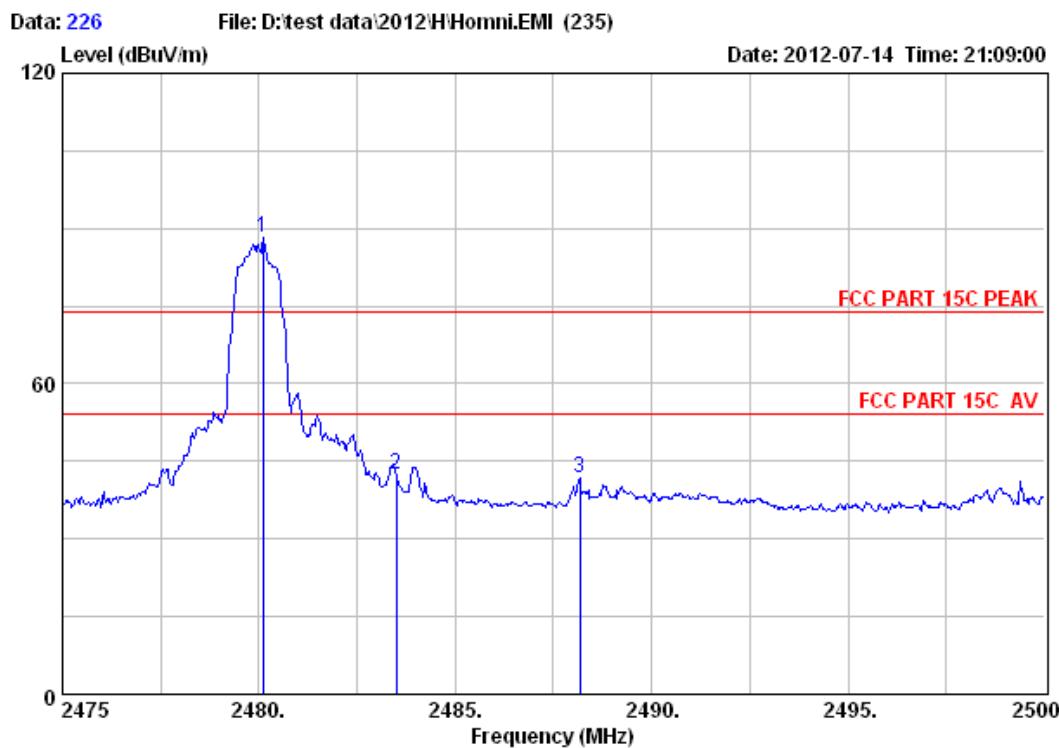
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 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2402MHz

		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	2324.42	27.73	6.54	34.23	40.56	40.60	74.00	33.40 Peak
2	2388.77	27.64	6.62	34.19	46.40	46.47	74.00	27.53 Peak
3	2390.00	27.64	6.62	34.19	43.22	43.29	74.00	30.71 Peak
4	2400.00	27.61	6.62	34.18	47.50	47.55	74.00	26.45 Peak
5	2402.19	27.61	6.62	34.18	90.10	90.15	74.00	-16.15 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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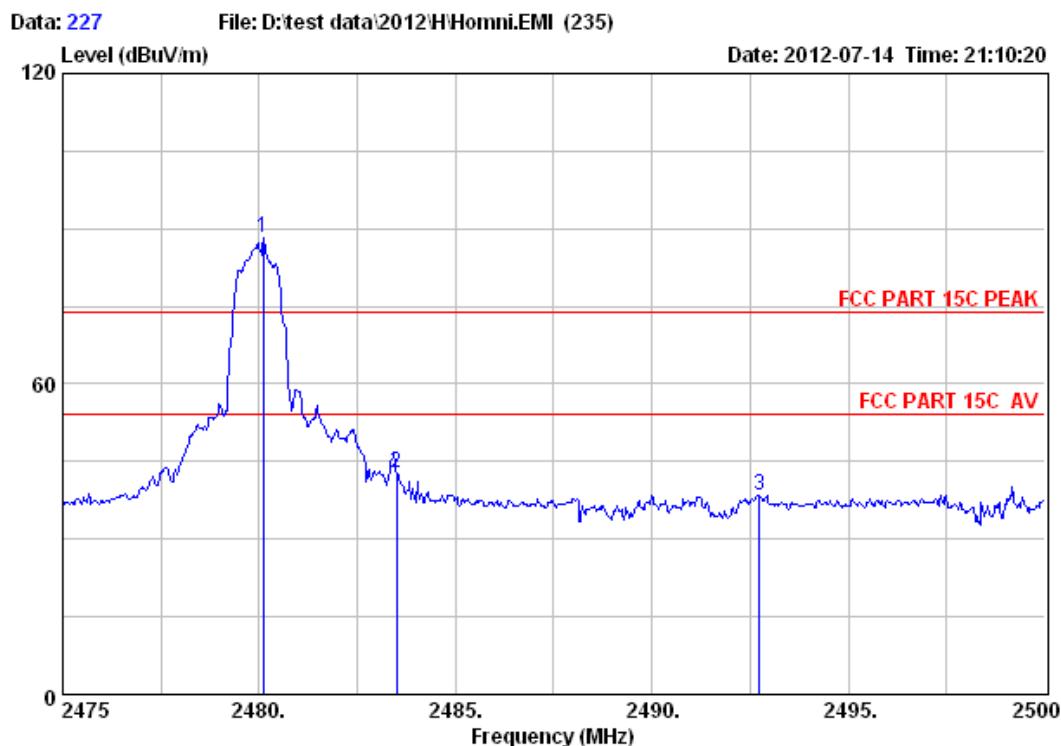
Site no. : 3m Chamber Data no. : 226
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
 Engineer : Tony
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2480MHz

	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	2480.10	27.58	6.71	34.03	87.84	88.10	74.00	-14.10 Peak
2	2483.50	27.58	6.71	34.03	42.32	42.58	74.00	31.42 Peak
3	2488.18	27.58	6.73	34.03	41.38	41.66	74.00	32.34 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. : 227
 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 : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : 8-DPSK TX 2480MHz

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				
				Reading	Level	Limits	Margin	Remark
(dB)		(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.10	27.58	6.71	34.03	88.02	88.28	74.00	-14.28 Peak
2	2483.50	27.58	6.71	34.03	42.49	42.75	74.00	31.25 Peak
3	2492.73	27.58	6.73	34.03	38.21	38.49	74.00	35.51 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(μV)	Average Level dB(μV)
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: TRANSACTIVE AIR	M/N:LGAC
Power: AC 120V/60Hz	
Test date: 2012-07-04	Tested by: Tony Tang
Test mode: Tx Mode	
	Pass

10.4.Test Data

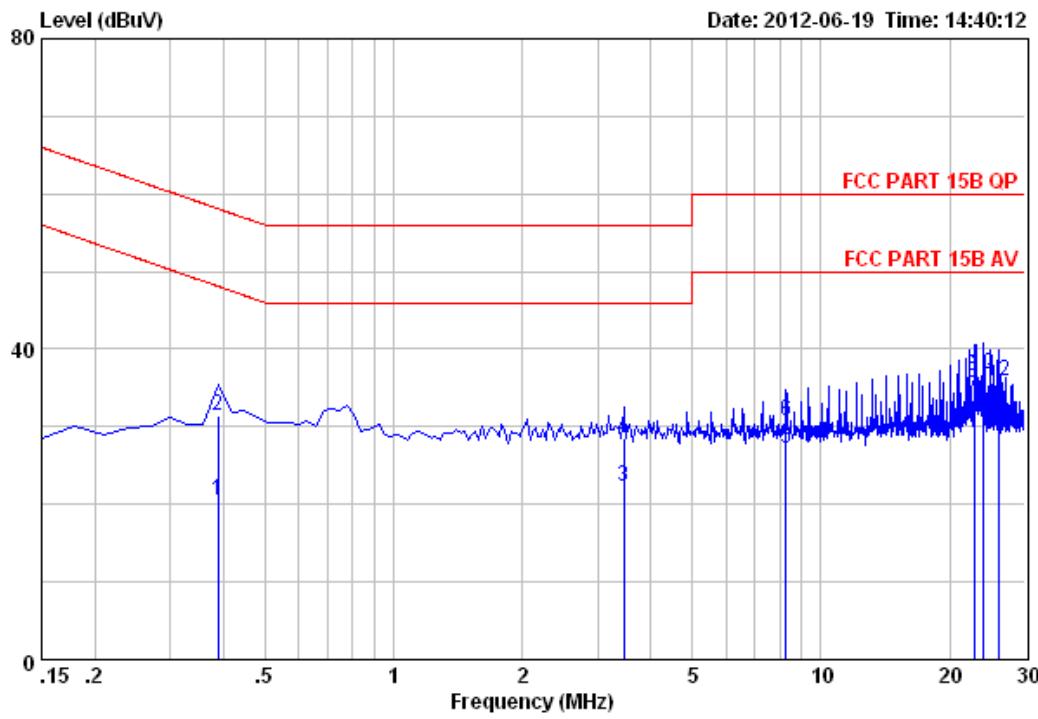
EST Technology

Chilingxiang, Qishantou, Santun,
 Houjie, Dongguan, Guangdong, China
 Tel: +86-769-83081888
 Fax: +86-769-83081878

Data: 325

File: D:\test data\2012\H\Homni.EMI (328)

Date: 2012-06-19 Time: 14:40:12



Site no. : EST 844 Shielded Room Data no. : 325
 Limit : FCC PART 15B QP LINE Phase : NEUTRAL
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa
 Engineer : Bible
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : TX Mode

Freq. (MHz)	LISN (dB/m)	Cable (dB)	Emission				
			Factor	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)
1	0.39	9.59	9.82	1.19	20.60	48.09	27.49
2	0.39	9.59	9.82	11.94	31.35	58.09	26.74
3	3.46	9.64	9.85	2.81	22.30	46.00	23.70
4	3.46	9.64	9.85	8.97	28.46	56.00	27.54
5	8.30	9.68	9.87	7.55	27.10	50.00	22.90
6	8.30	9.68	9.87	11.17	30.72	60.00	29.28
7	22.84	9.77	10.00	14.03	33.80	50.00	16.20
8	22.84	9.77	10.00	16.84	36.61	60.00	23.39
9	23.88	9.79	10.00	12.51	32.30	50.00	17.70
10	23.88	9.79	10.00	17.05	36.84	60.00	23.16
11	25.97	9.81	10.03	12.06	31.90	50.00	18.10
12	25.97	9.81	10.03	16.13	35.97	60.00	24.03

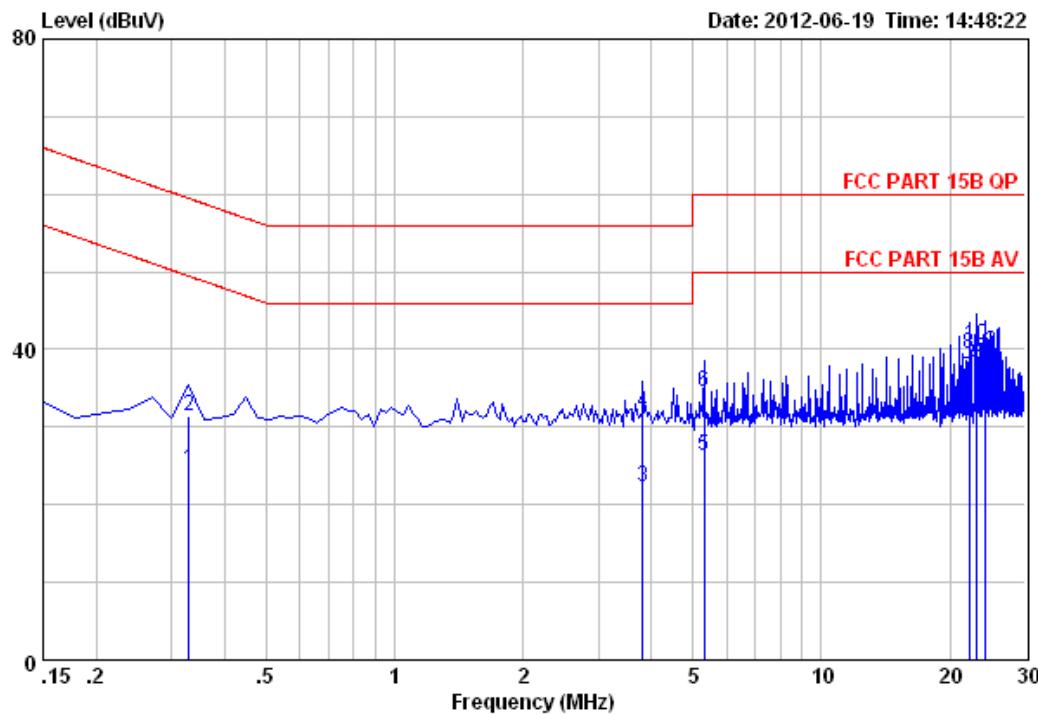
EST Technology

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Fax: +86-769-83081878

Data: 327

File: D:\test data\2012\H\Homni.EMI (328)

Date: 2012-06-19 Time: 14:48:22



Site no. : EST 844 Shielded Room Data no. : 327
 Limit : FCC PART 15B QP LINE Phase : LINE
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa
 Engineer : Bible
 EUT : Transactive Air
 Power : AC 120V/60Hz
 M/N : LGAC
 Test Mode : TX Mode

Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission			
				Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	0.33	9.61	9.83	5.06	24.50	49.48	Average
2	0.33	9.61	9.83	11.90	31.34	59.47	QP
3	3.82	9.64	9.85	2.71	22.20	46.00	Average
4	3.82	9.64	9.85	12.42	31.91	56.00	QP
5	5.31	9.65	9.85	6.90	26.40	50.00	Average
6	5.31	9.65	9.85	15.03	34.53	60.00	QP
7	22.15	9.68	9.98	16.64	36.30	50.00	Average
8	22.15	9.68	9.98	19.84	39.50	60.00	QP
9	23.19	9.67	10.00	18.53	38.20	50.00	Average
10	23.19	9.67	10.00	20.93	40.60	60.00	QP
11	24.21	9.66	10.00	14.94	34.60	50.00	Average
12	24.21	9.66	10.00	20.04	39.70	60.00	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

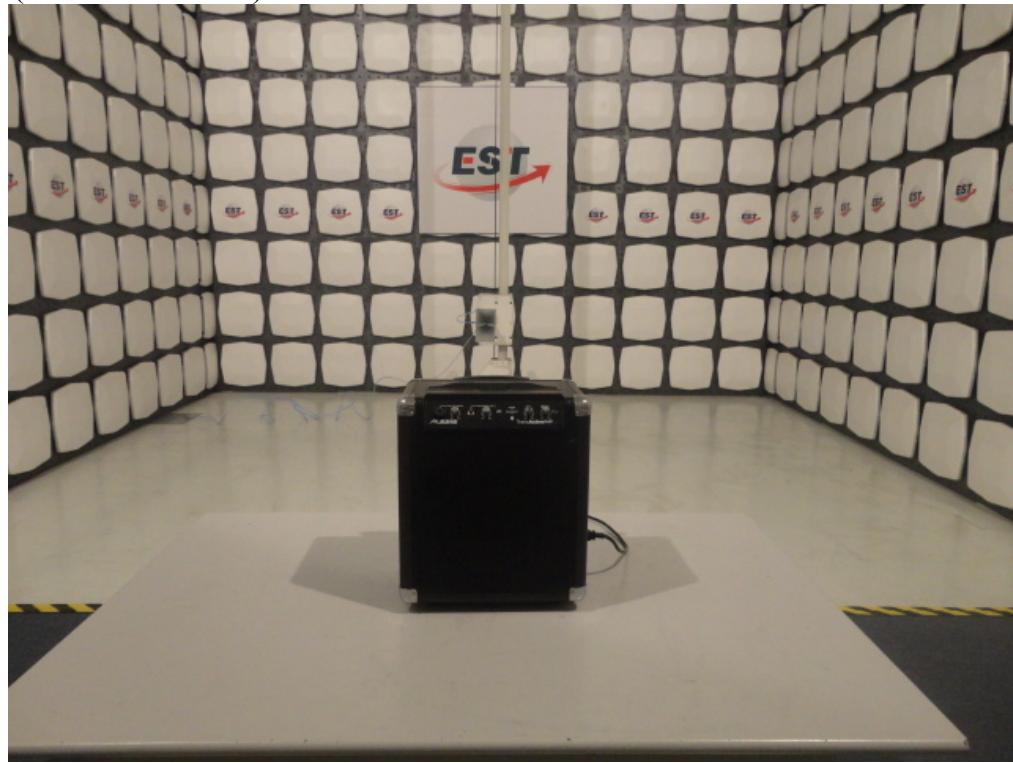
The antennas used for this product are integral Patch Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.5dBi.

12. TEST SETUP PHOTO

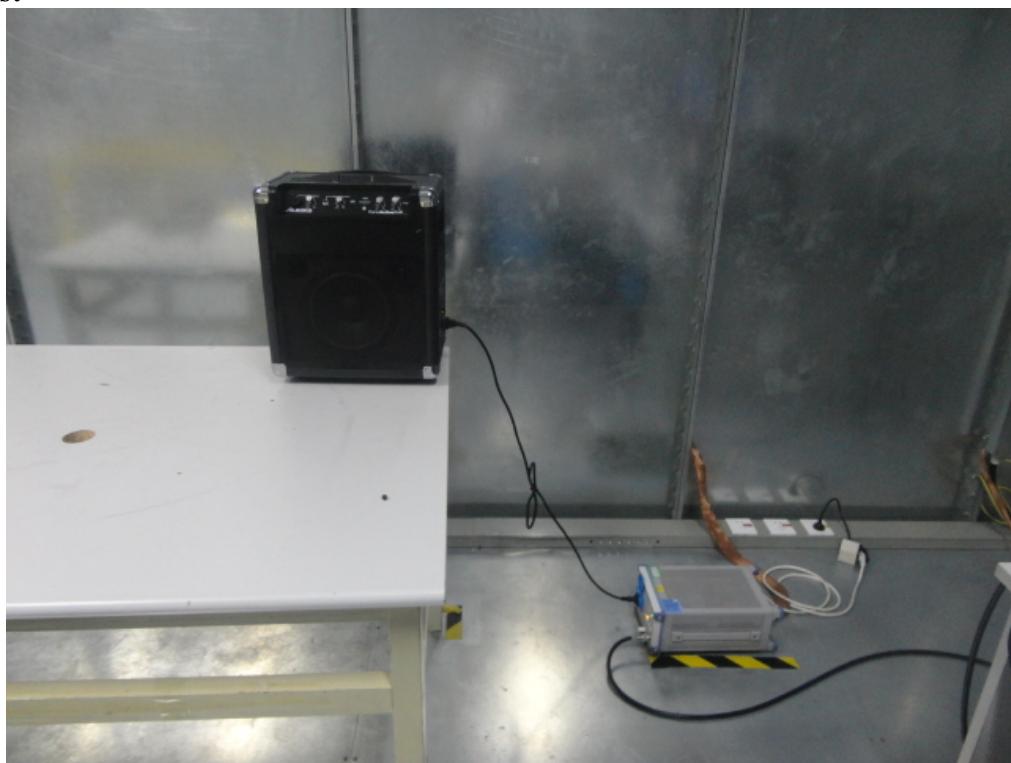
Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



Conducted test



13. PHOTOS OF EUT

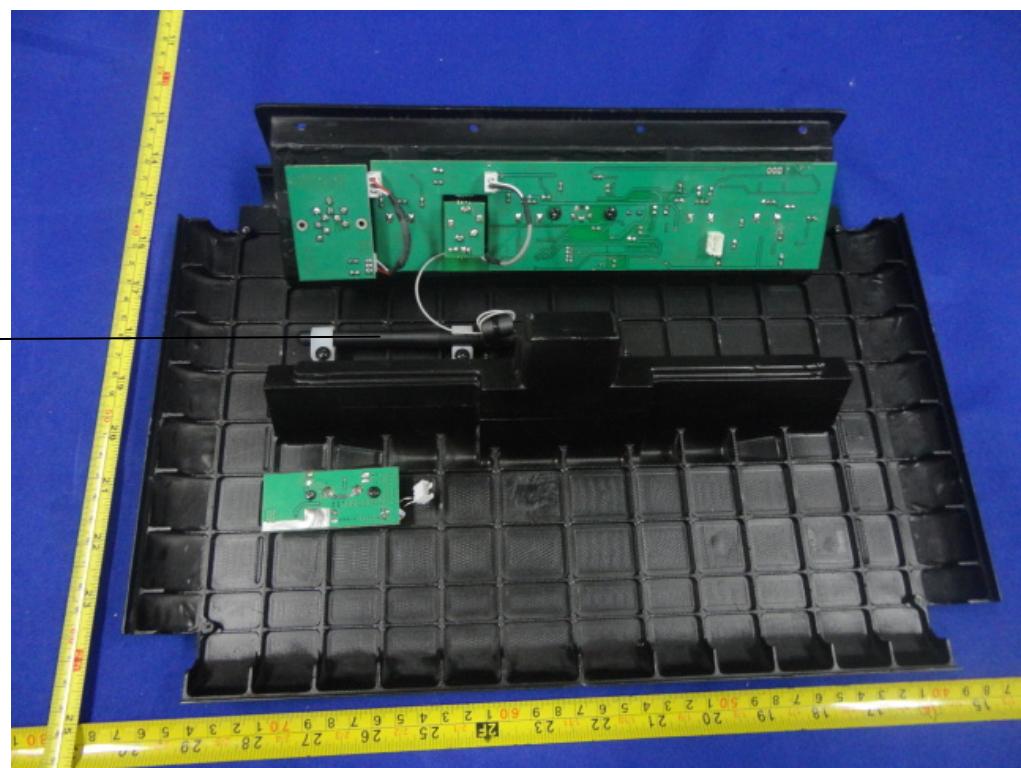
External Photos



External Photos

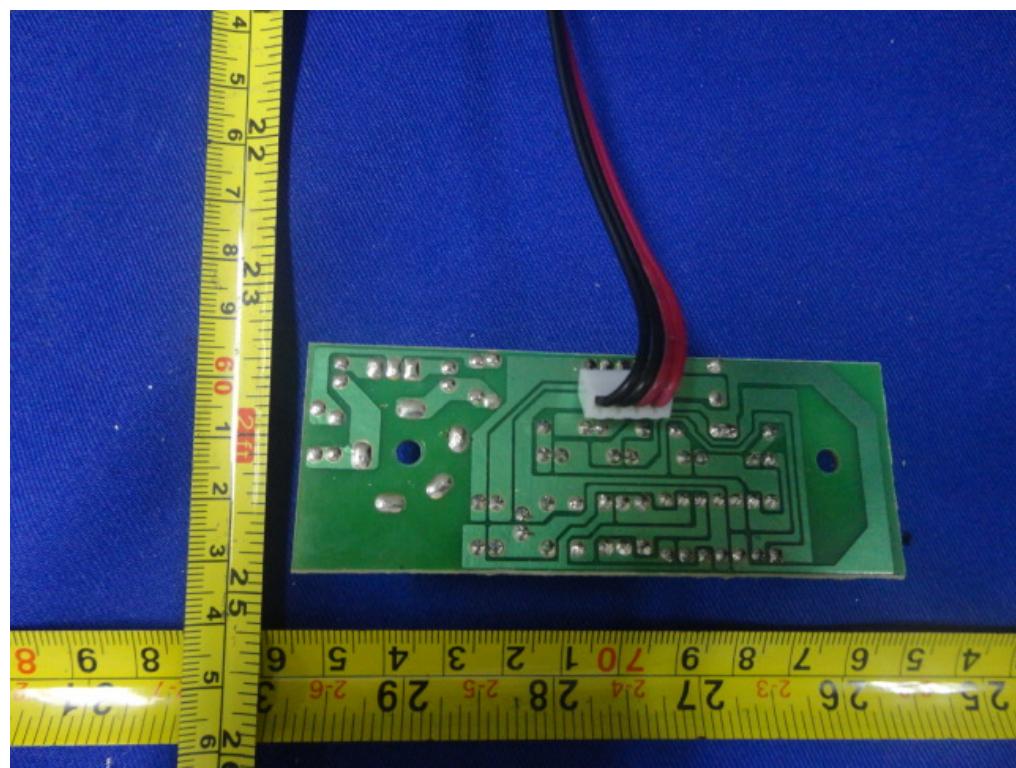
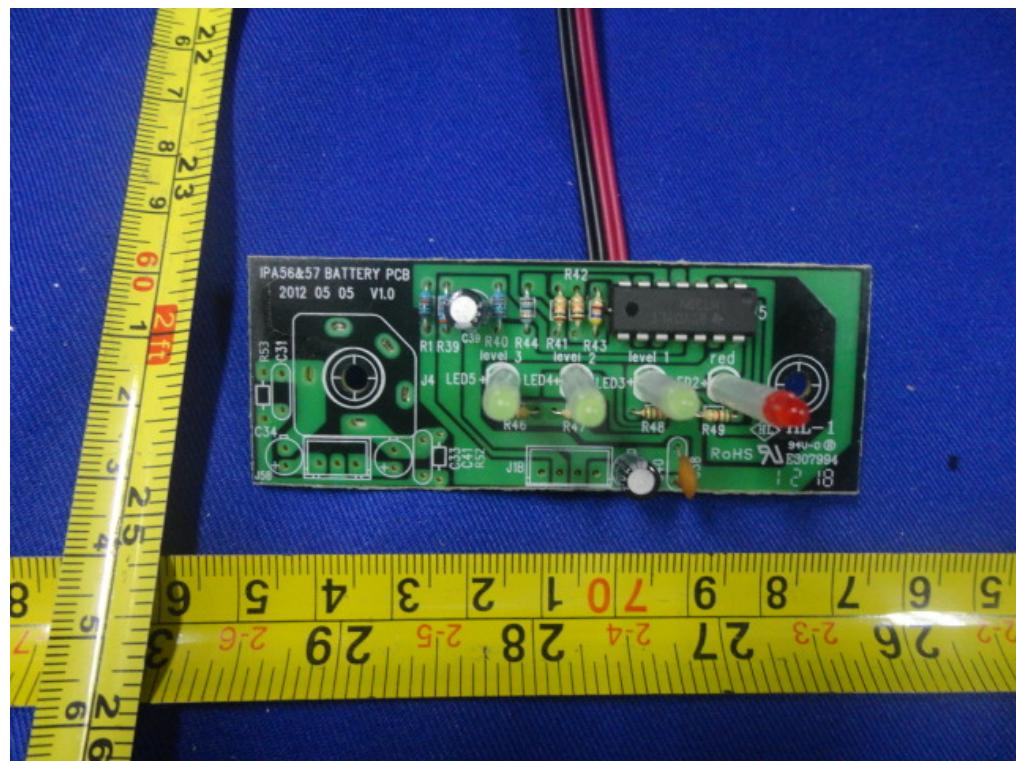


Internal Photos

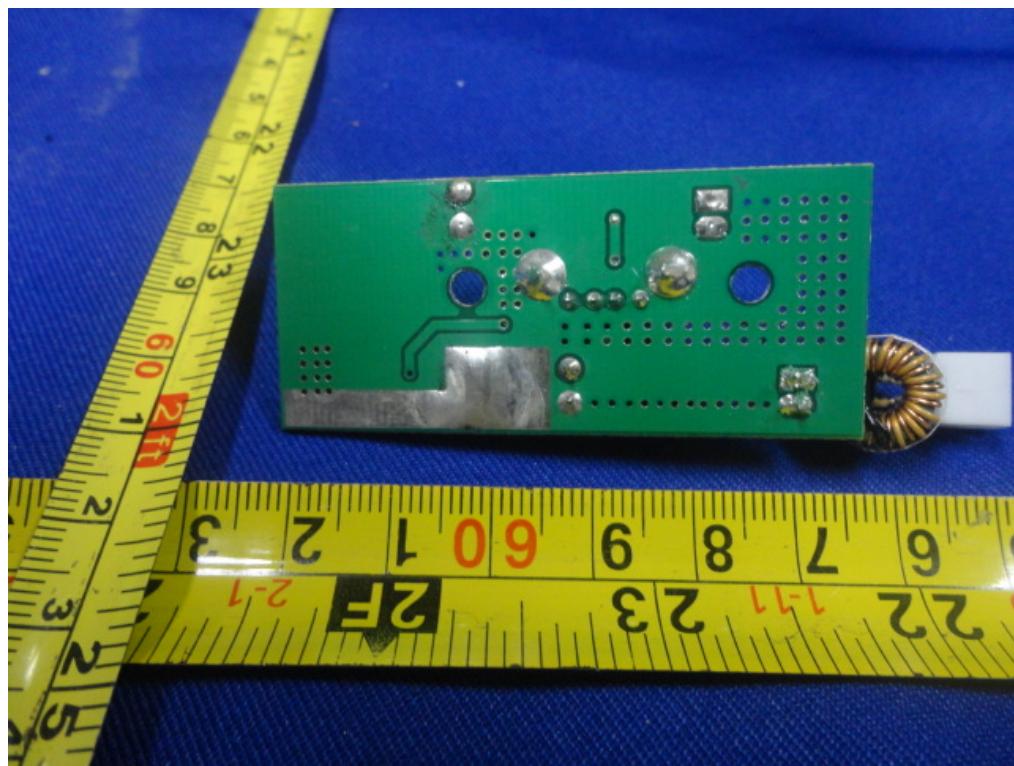
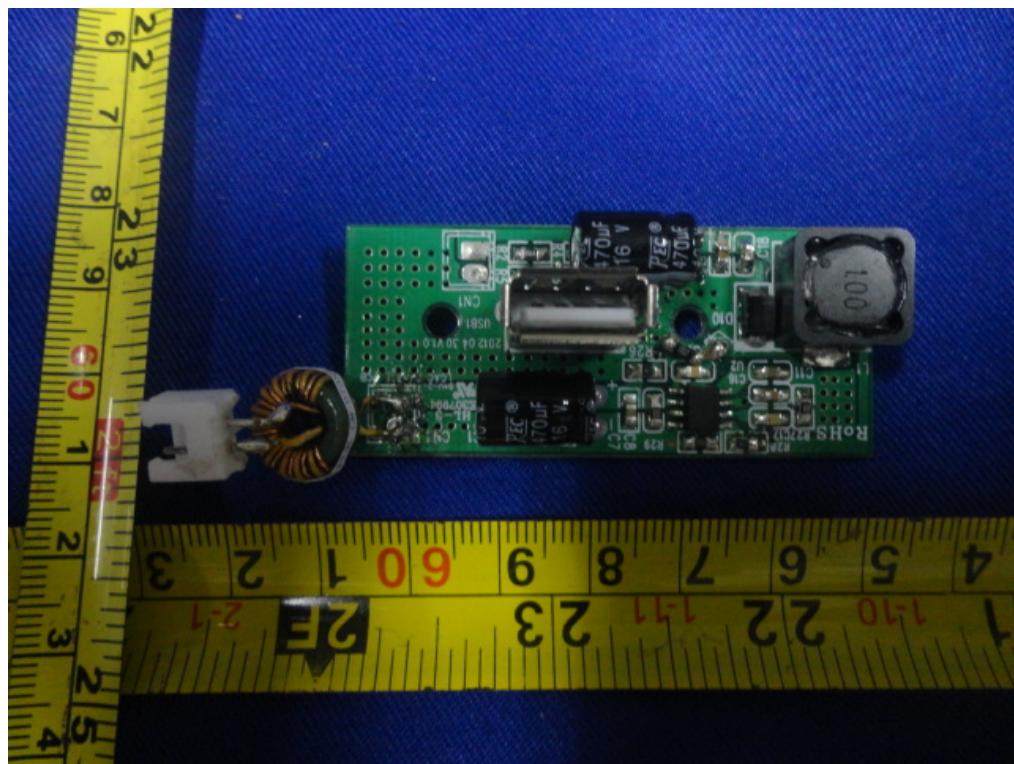


Antenna

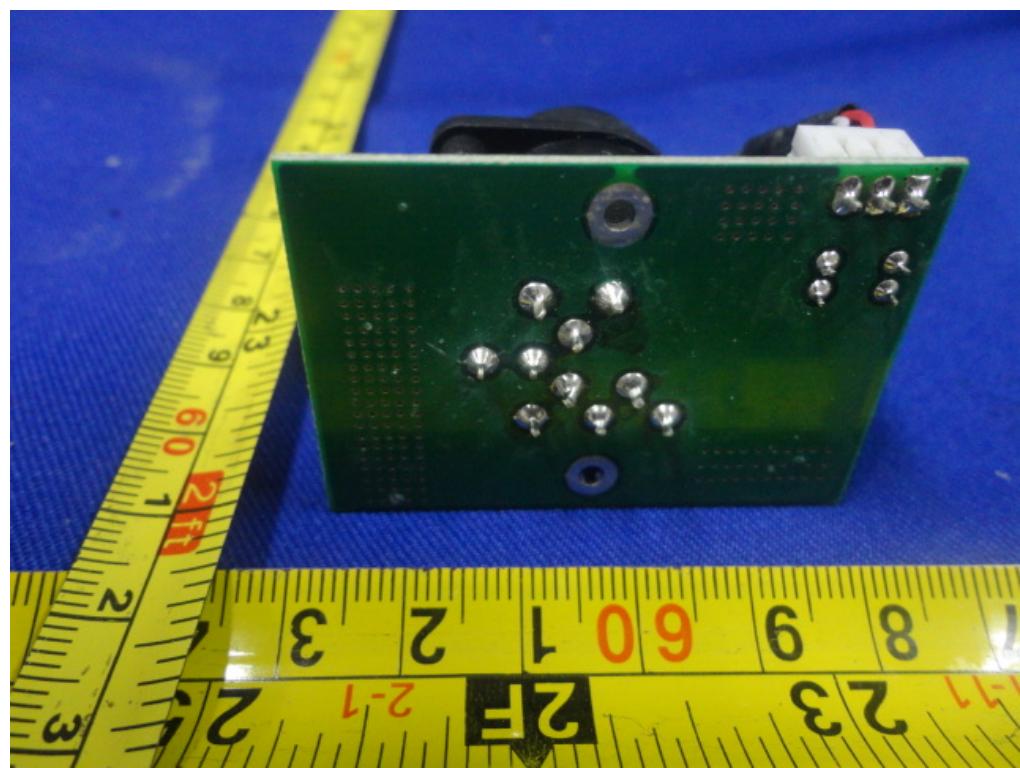
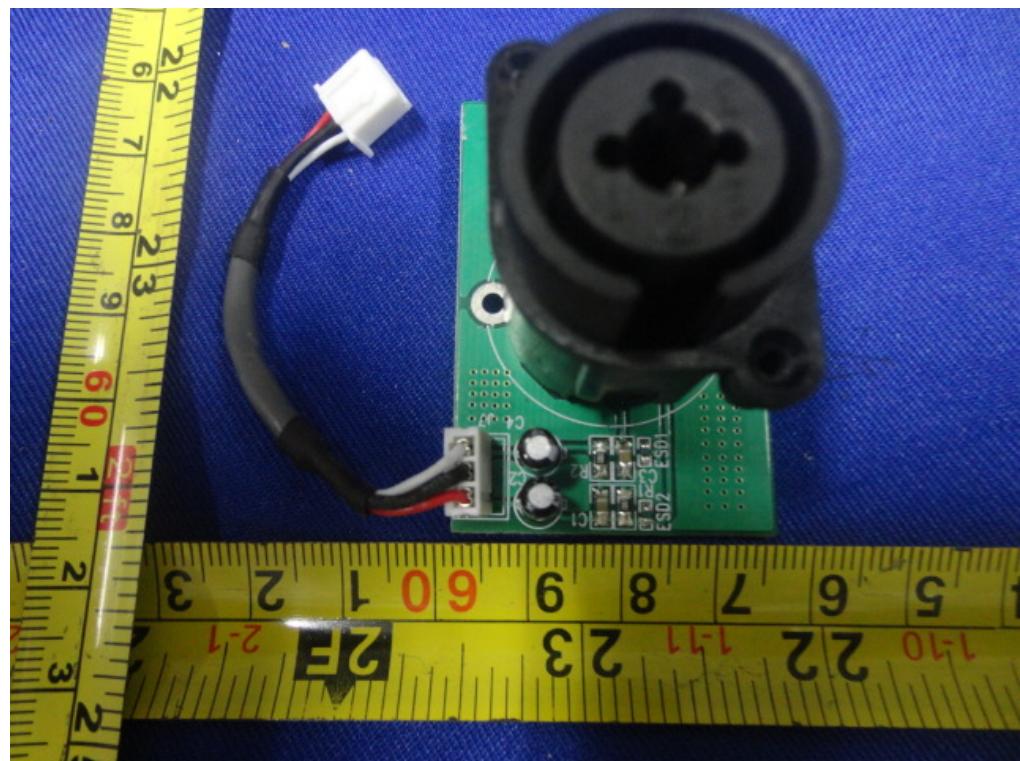
Internal Photos



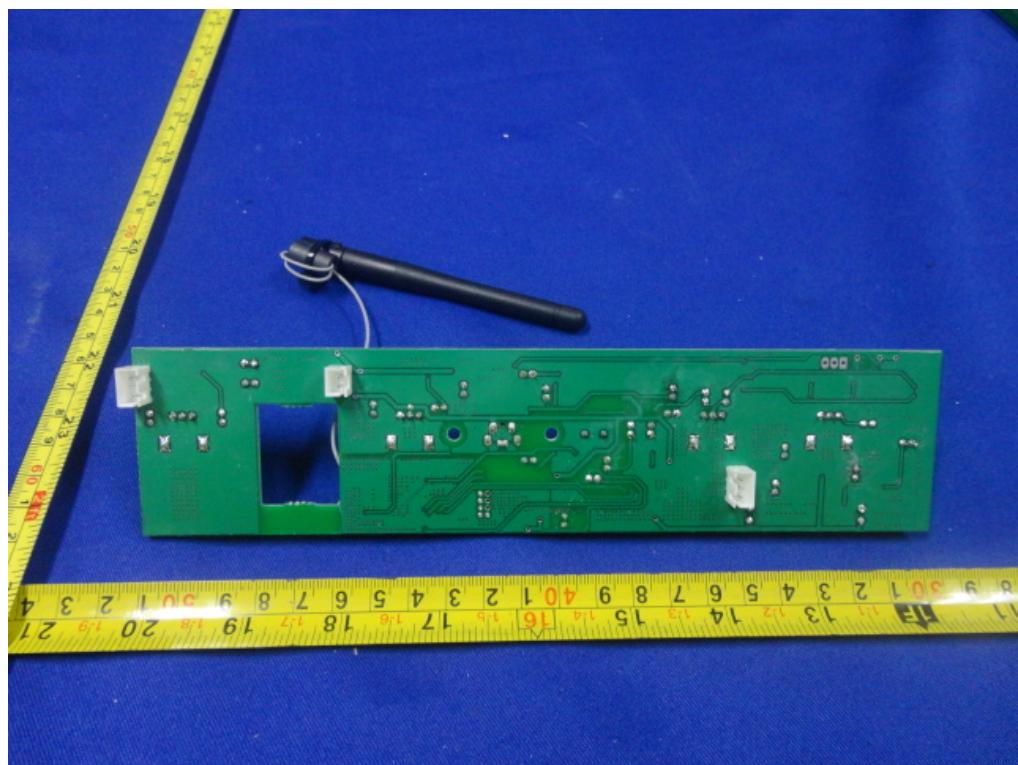
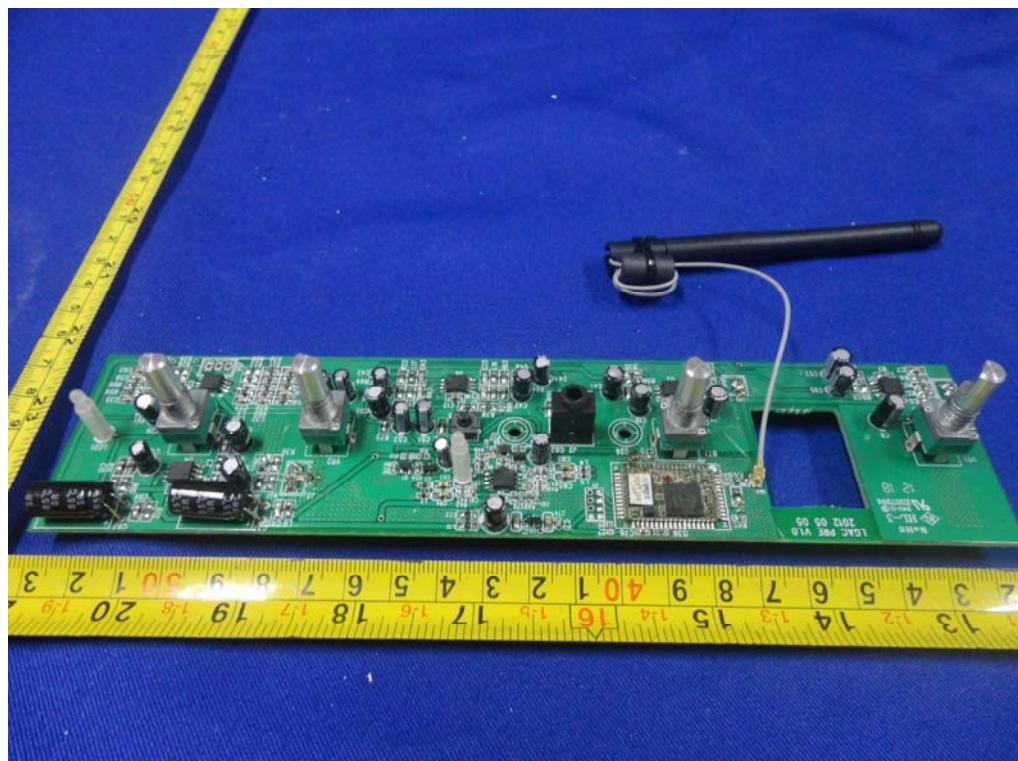
Internal Photos



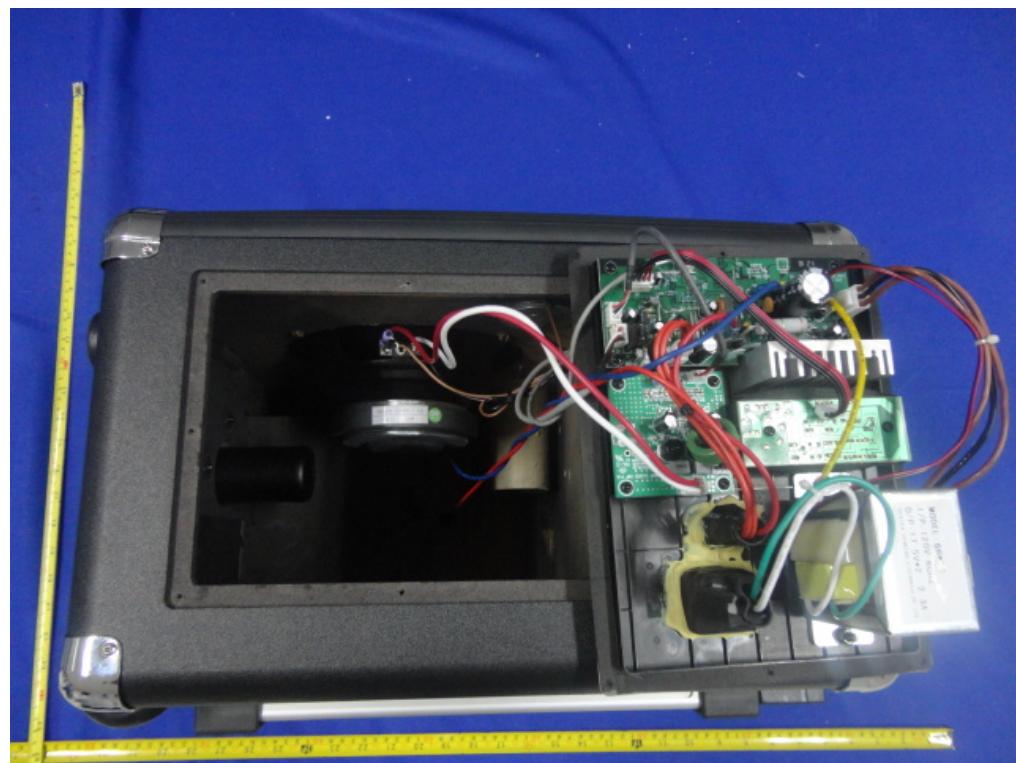
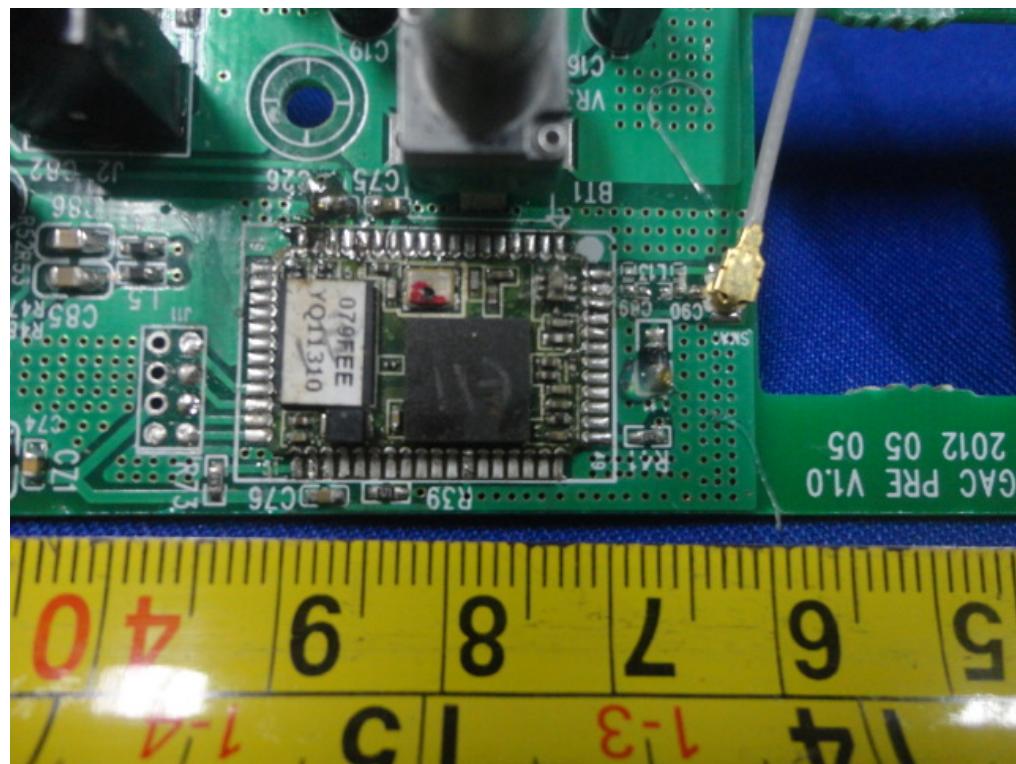
Internal Photos



Internal Photos



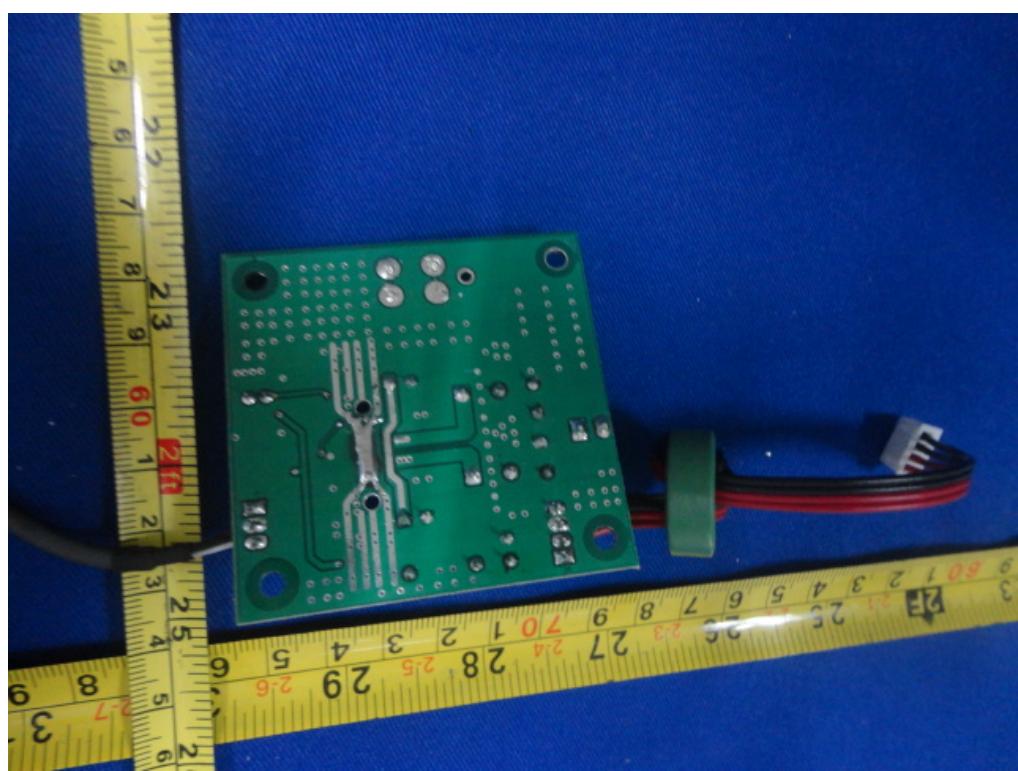
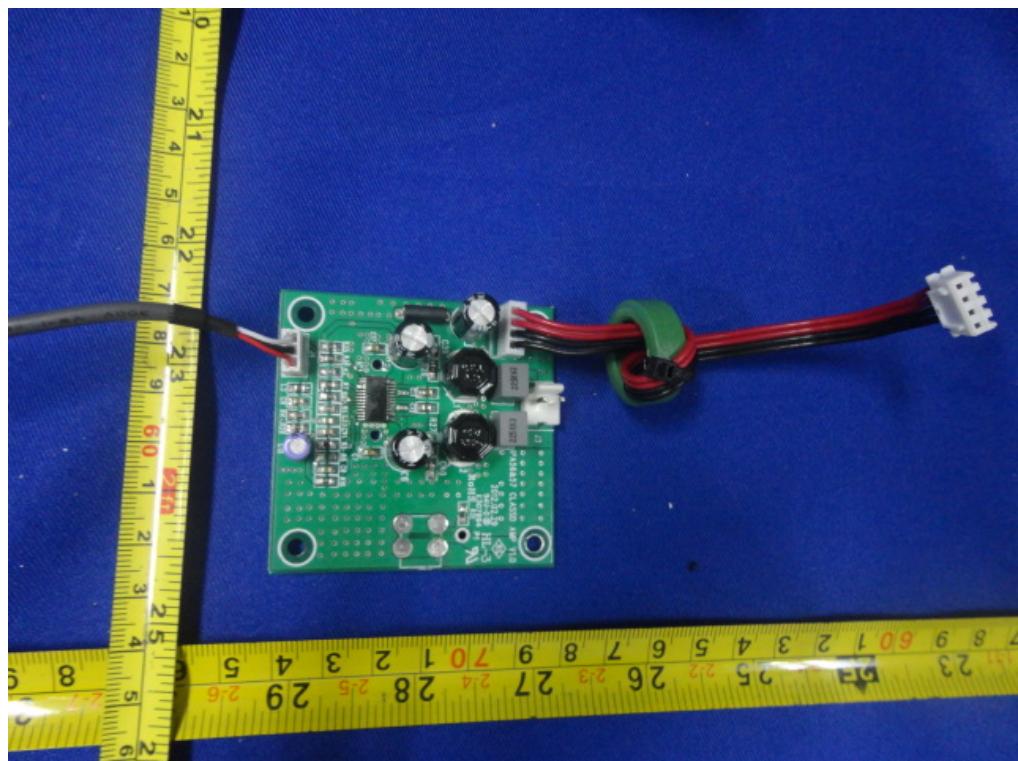
Internal Photos



Internal Photos



Internal Photos



Internal Photos

