



R041-12-103505-1A-DM / CV - CHB

RADIO TEST REPORT

According to the standard(s):

FCC Part 15 Radio part 15.247

Equipment under test:

WIRELESS MODEM ARF 53

FCC ID : U3Z-ARF7474


Company:

ADEUNIS

Diffusion: Mr SAGUIN

(Company: ADEUNIS)

Number of pages: 23 including 1 annex

Ed.	Date	Modified page(s)	Written by		Technical verification Quality approval	
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0	31-Jul-12	Creation	David MONTAULON		Olivier HEYER	
						

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NAME OF THE EQUIPMENT UNDER TEST (E.U.T.) : WIRELESS MODEM ARF 53

Serial number : /

P/N : FCC ID : U3Z-ARF7474

Software version : ADEUNIS RF V2.02

MANUFACTURER'S NAME : ADEUNIS-RF

APPLICANT'S ADDRESS:

Company : ADEUNIS

Address : 283 rue Louis Néel
Parc Technologique Pre Roux - 38920 CROLLES
FRANCE

Person(s) present during the tests : Mr MONNET

Responsible : Mr SAGUIN

DATE(S) OF TESTS : July 4th of 2012

TESTS LOCATION(S) : Emitech Grand Sud laboratory in Vendargues - FRANCE

TESTS SUPERVISOR(S) : None

TESTS OPERATOR(S) : David MONTAULON

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1. INTRODUCTION

This document submits the results of Radio tests performed on the equipment **WIRELESS MODEM ARF 53** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed below.

2. REFERENCE DOCUMENT(S)

FCC part 15 Radio part 15.247

Code of federal regulations. Title 47- Telecommunication Chapter 1- Federal Communication Commission. Part 15- Radio frequency devices Subpart B- Unintentional Radiators. Limits and methods of measurement of radio disturbance. Characteristic of information technology equipment.

Test report n° 084102-CC-1-a :

ARF WIRELESS MODEM TEST REPORT from Gyl lab.
FCC CFR 47 part 15
Industry Canada RSS 210 and ICES-003
Radio Part 15.247 and RSS210 Issue 5 Section 6.2.2(o)

3. EQUIPMENT UNDER TEST CONFIGURATION

Equipment under test (E.U.T.) description: Wireless modem (915MHz radio link)

E.U.T. name: WIRELESS MODEM ARF 53

FCCID: U3Z-ARF7474

Frequency range: 902MHz – 928MHz

RF max power: 1W

Antennas:

ELF 900 (gain= 5dB)

FG 9023 (gain= 3dB)

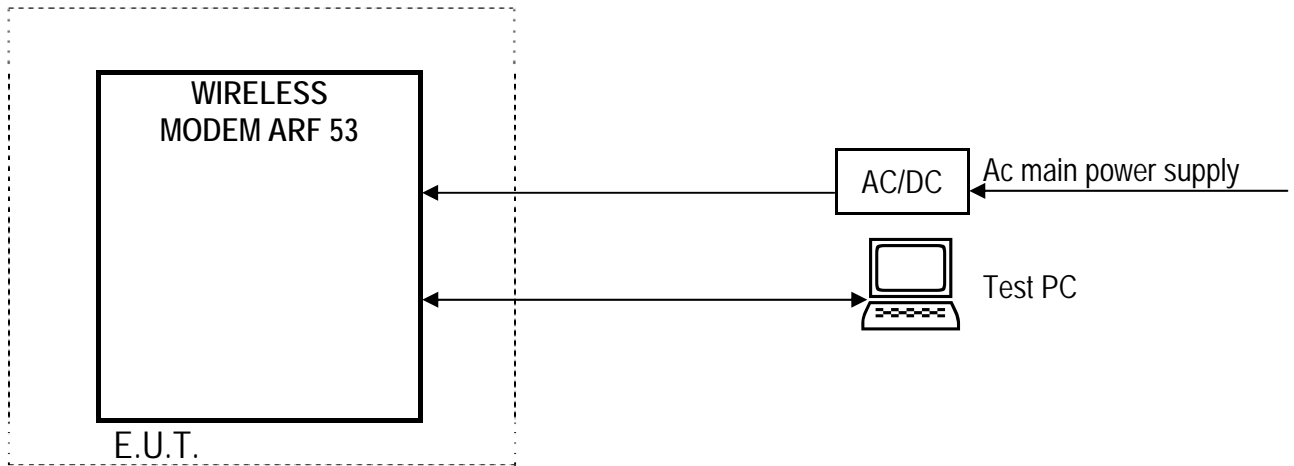
FG 9026 (gain= 6dB)

Modulation: FSK

Cycle and operating mode during emission tests: Permanent emission mode on channel 0, 24 or 49

Equipment modifications applied during tests: No

4. EQUIPMENT UNDER TEST CONFIGURATION SCHEME



5. SUMMARY OF TEST RESULTS

Tests designation	Results satisfying?	Comments
Maximum peak conducted Fcc part 15.247 b)	YES	
Intentional radiator Fcc part 15.247 d)	YES	
Unwanted emissions outside of §15.247 frequency bands Fcc part 15.215 b)	YES	

N.P.: Not Performed.

N.A.: Not Applicable.

▪ In emission:

Sample subject to the test complies with prescriptions of the standard(s) FCC Part 15 Radio part 15.247 according to limits, specified in this test report for tests made only (the other tests are shown in test report n°084102-CC-1a form Gyl laboratory – France)

6. MAXIMUM PEAK CONDUCTED POWER

Standard: FCC part 15 Radio part 15.247

Test method: FCC part 15.247 b) (2) (4)

Test configuration:

Frequency band	Tested side	Resolution bandwidth	Video bandwidth	Detection mode
902.25MHz-903.25MHz	RF ON CH0 (902.75MHz)	100kHz	300kHz	Max-hold Peak
914.25MHz-915.25MHz	RF ON CH24 (914.75MHz)	100kHz	300kHz	Max-hold Peak
926.75MHz-927.75MHz	RF ON CH49 (927.25MHz)	100kHz	300kHz	Max-hold Peak

Test is done in max-hold peak detection. E.U.T. output is directly connected to a spectrum analyzer. Measurements are performed on channels 0, 24 and 49.

Test method deviation: No

Measuring distance: 3 meters

Test equipment list:

CATEGORY	BRAND	TYPE	N° EMITECH	CAL DATE	DUE DATE
Attenuator	Radiall	R412720124	4391	03-jan-2014	03-mar-2014
Cable		N-1m	2701	11-oct-12	11-dec-12
Software	Nexio	BAT EMC	0000	-	-
Receiver	Agilent Technologies	E7405A	2161	7-dec-13	7-feb-14

BAT-EMC software version: V3.6.0.24

Results:

b) (4) Maximum peak conducted >6 dBi: Antennas provided by the manufacturer are dipoles antennas with gain less than 6dBi.

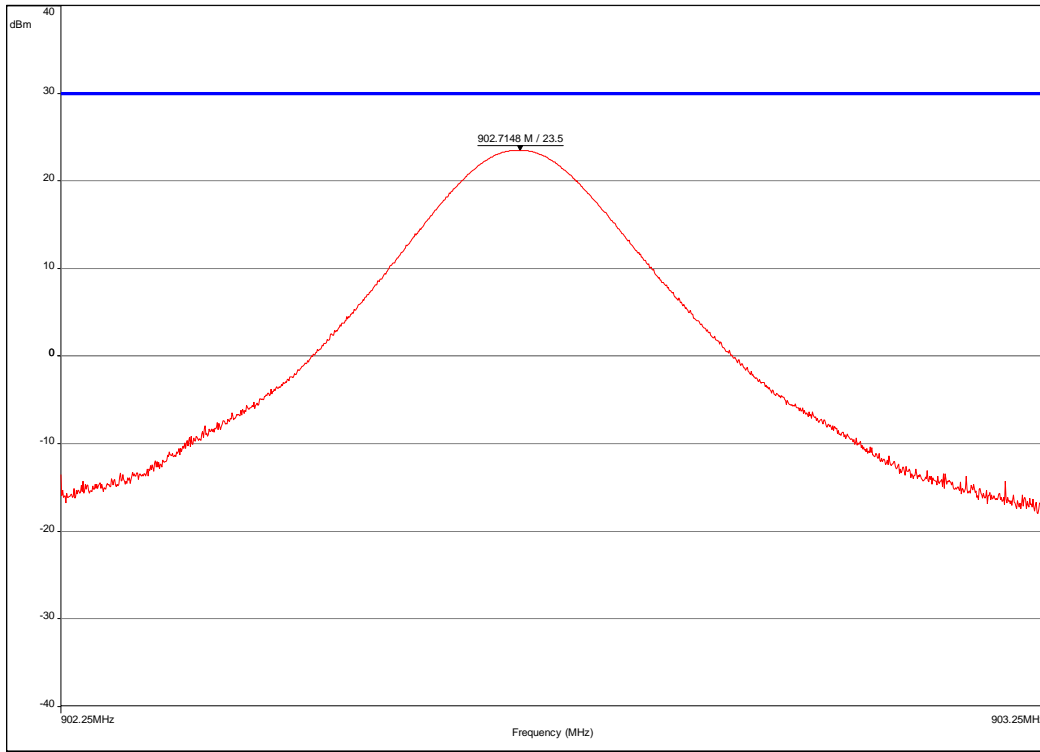
b) (2) Maximum peak conducted: See **Board** below and **Graph(s)** hereafter.

Frequency (MHz)	Channel	Maximum peak power (dBm)	Power limit (dBm)
902.7148	0	23.50	30
914.7152	24	23.60	30
927.2137	49	22.90	30

Antenna base emission (measurement)
RF ON CH0 (902.75MHz)
EMI957

Frequency (MHz) : 902.25 MHz - 903.25 MHz (Analyzer mode)
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 1

— RADIO/FCC 15.247 § b) (2) - Class Tr - Créteil
— Mes. Peak



RF ON CH0 (902.75MHz) - 07/04/2012 09:10 - 957

Date: 04/07/2012 09:10:22

Technician: DM

Classe: Tr of the standard

 Detection:
 Max-hold Peak

T (°C): 23.6

H (%): 65.6

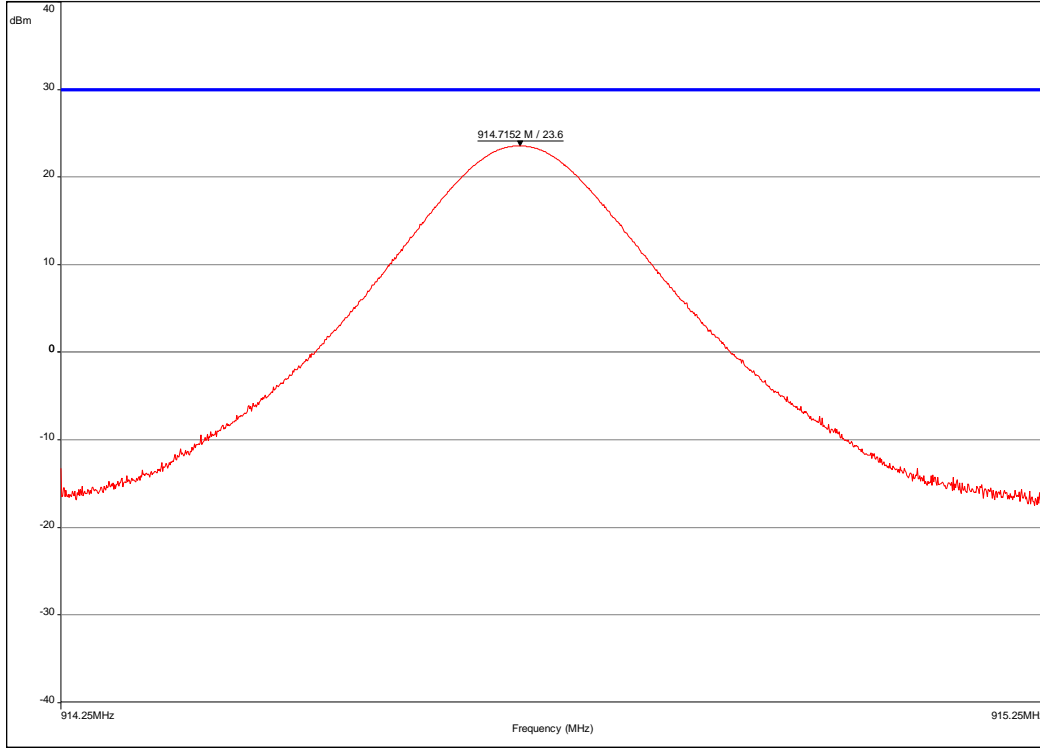
P (hpa): 1005

Modification(s) during test:

Antenna base emission (measurement)
RF ON CH24 (914.75MHz)
EMI958

Frequency (MHz) : 914.25 MHz - 915.25 MHz (Analyzer mode)
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 1

— RADIO/FCC 15.247 § b) (2) - Class Tr - Crête/
 — Mes. Peak



RF ON CH24 (914.75MHz) - 07/04/2012 09:16 - 958

Date: 04/07/2012 09:16:30

Technician: DM

Classe: Tr of the standard

Detection:

T (°C): 23.6

H (%): 65.6

P (hpa): 1005

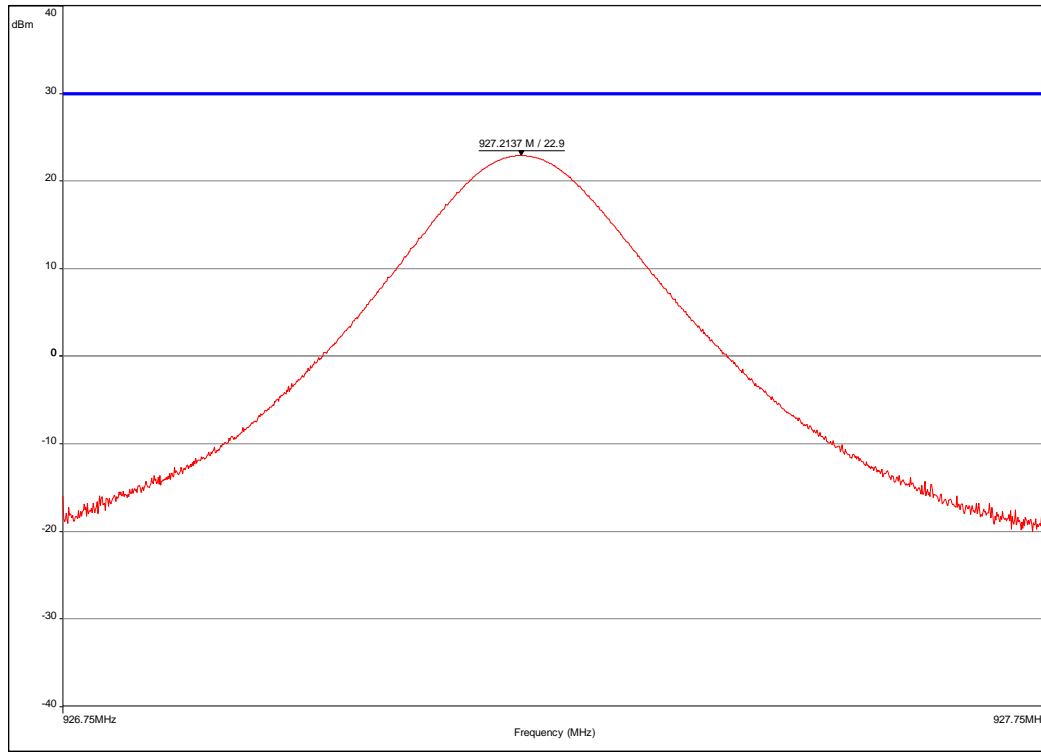
Modification(s) during test:

Antenna base emission (measurement)
RF ON CH49 (927.25MHz)

EMI959

Frequency (MHz) : 926.75 MHz - 927.75 MHz (Analyzer mode)
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 1

— RADIO/FCC 15.247 § b) (2) - Class Tr - Crête/
 — Mes. Peak



Date: 04/07/2012 09:20:09

Technician: DM

Classe: Tr of the standard

Detection:

T (°C): 23.6

H (%): 65.6

P (hpa): 1005

Modification(s) during test:

Calculated radiated power on Channel 0 only (maximum conducted power) at 3 m distance:

Maximum Radiated field is calculated using the formula:

$$E(V/m) = \sqrt{(30 \times P(W) \times G(dB))} \div d(m)$$

where G is the declared antenna gain.

Antenna type	Gain (dB)	Radiated power (dBµV/m)
ELF 900	5	125.82
FG 9023	3	123.60
FG 9026	6	126.61

7. INTENTIONAL RADIATOR

Standard: FCC part 15 Radio part 15.247

Test method: FCC part 15.247 d)

Test configuration:

Frequency band	Tested side	Resolution bandwidth	Video bandwidth	Detection mode	E.U.T. height
900MHz-905MHz	Band Edge CH0 (902.75MHz)	100kHz	300kHz	Max-hold Peak	0cm
925MHz-930MHz	Band Edge CH49 (927.25MHz)	100kHz	300kHz	Max-hold Peak	0cm

Test is done in max-hold peak detection, transmitter output is directly connected to a spectrum analyzer. Measurements are performed on channels 0 and 49. (lower and upper channels)

The purpose of this test is to demonstrate in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

Test method deviation: No

Measuring distance: 3 meters

Test equipment list:

CATEGORY	BRAND	TYPE	N° EMITECH	CAL DATE	DUE DATE
Attenuator	Radiall	R412720124	4391	03-jan-2014	03-mar-2014
Cable		N-1m	2701	11-oct-12	11-dec-12
Software	Nexio	BAT EMC	0000	-	-
Receiver	Agilent Technologies	E7405A	2161	7-dec-13	7-feb-14

BAT-EMC software version: V3.6.0.24

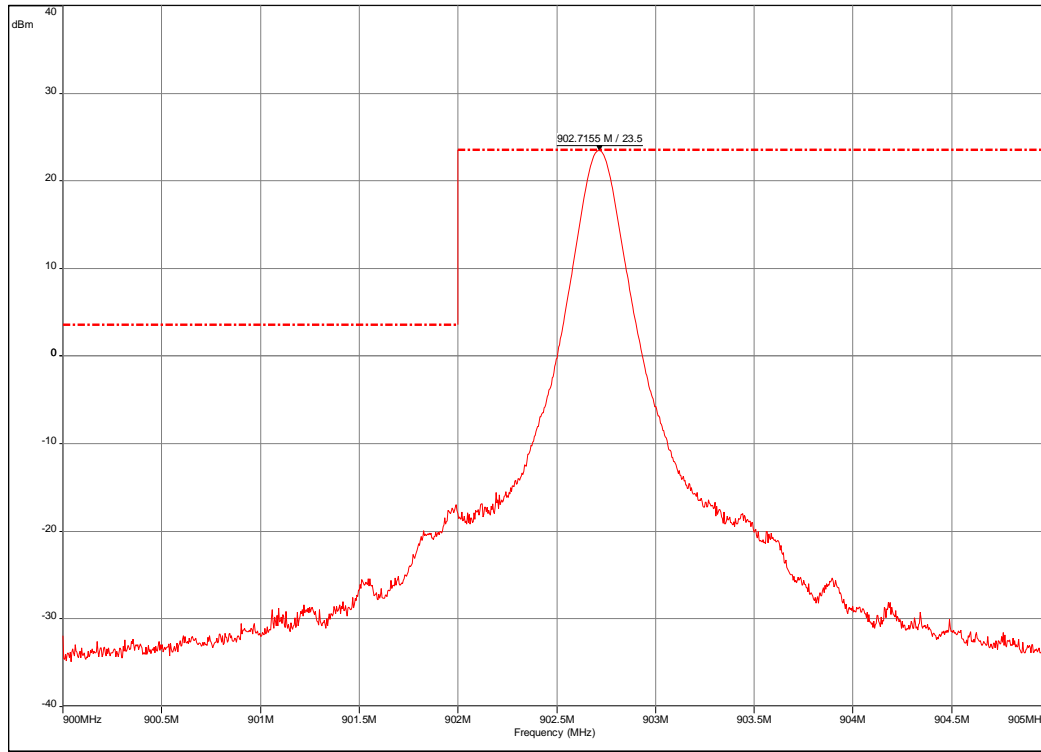
Results: See Graph(s) hereafter.

Antenna base emission (measurement)

Band Edge CH0 (902.75MHz)

EMI960

Frequency (MHz) : 900 MHz - 905 MHz (Analyzer mode) ----- RADIO/Band Edge FCC 15.247 § d) ADEUNIS - Class Tr - Créteil
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 1 ----- Mes.Peak



Band Edge CH0 (902.75MHz) - 07/04/2012 09:44 - 960

Date: 04/07/2012 09:44:42

Technician: DM

Classe: Tr of the standard

 Detection:
Max-hold Peak

T (°C): 23.6

H (%): 65.6

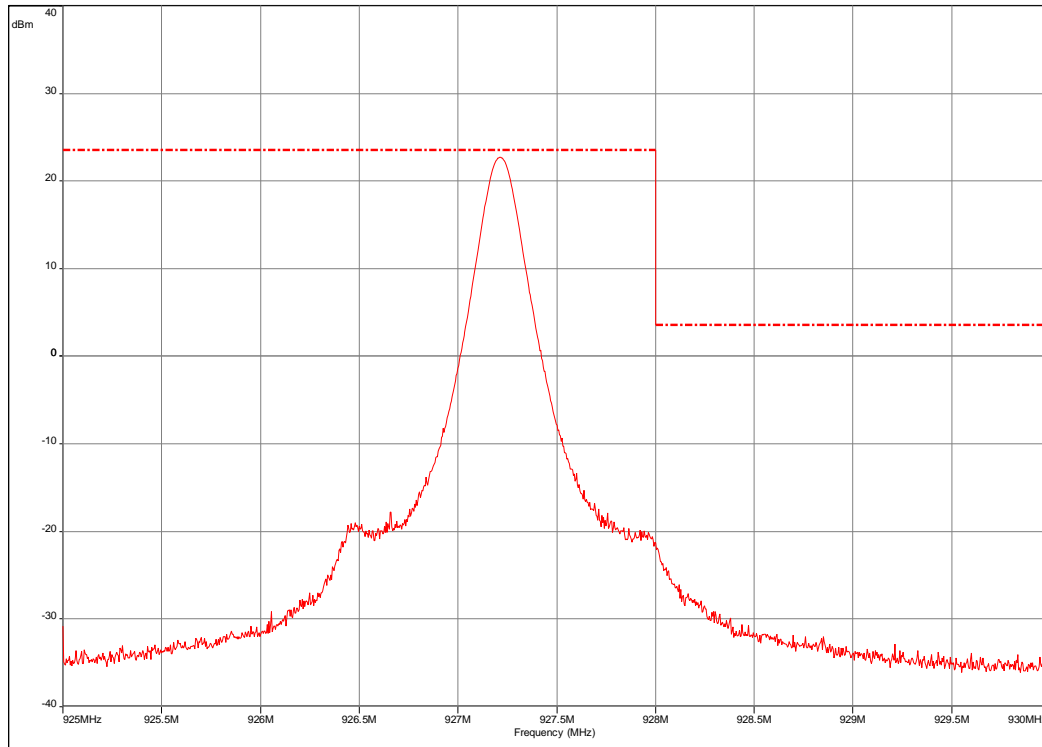
P (hpa): 1005

Modification(s) during test:

Antenna base emission (measurement)
Band Edge CH49 (927.25MHz)

EMI961

Frequency (MHz) : 925 MHz - 930 MHz (Analyzer mode)
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 1
 --- RADIO/Band Edge FCC 15.247 § d) ADEUNIS - Class Tr - Créteil
 --- Mes.Peak



Band Edge CH49 (927.25MHz) - 07/04/2012 09:41 - 961

Date: 04/07/2012 09:41:06

Technician: DM

Classe: Tr of the standard

Detection:
 Max-hold Peak

T (°C): 23.6

H (%): 65.6

P (hpa): 1005

Modification(s) during test:

8. UNWANTED EMISSIONS OUTSIDE OF §15.247 FREQUENCY BANDS

Standard: FCC part 15 Radio part 15.247

Test method: FCC part 15.215 b)

Test configuration:

Frequency band	Tested side	Resolution bandwidth	Video bandwidth	Detection mode	E.U.T. height
1GHz-10GHz	Front side / CH0 / ELF 900	100kHz	300kHz	Peak	80cm
1GHz-10GHz	Front side / CH0 / FG 9023	100kHz	300kHz	Peak	80cm
1GHz-10GHz	Front side / CH0 / FG 9026	100kHz	300kHz	Peak	80cm

Measurements are done in semi anechoic chamber at 3m. E.U.T. is set on a wooden table with 3 kinds of antennas (ELF 900, FG 9023 and FG 9026).

Measurements are done in max-hold peak detection. Tests are done on Channel 0 only.

Limits: Average limit in restricted bands §15.205 is 54dB μ V/m. Otherwise, the limit is 20dB under carrier emission level at 3m (105.82dB μ V/m for ELF 900 ; 103.60dB μ V/m for FG 9023 ; 106.61 for FG 9026) without averaging with duty cycle factor.

The averaging correction factor (*) of -13.4dB is used only when necessary (margin lower than 10dB) in restricted bands as defined in 15.205.

(*) see test report N°084102-CC-1-a

Test method deviation: No

Measuring distance: 3 meters

Test equipment list:

CATEGORY	BRAND	TYPE	N° EMITECH	CAL DATE	DUE DATE
Antenna	Emco	3115	1053	04-mar-2012	04-may-2012
Cable	C&C	N-1.5m	5016	05-dec-2013	05-fev-2014
Cable		N-1m	2701	11-oct-12	11-dec-12
Cable	C&C	N-6m	5015	11-oct-12	11-dec-12
Filter	Filtek	HP12/1200-5AA	7310	01-dec-2013	01-fev-2014
Preamplifier	Microwave	C005180F-4B1	2165	06-oct-2012	06-dec-2012
Receiver	Agilent Technologies	E7405A	2161	07-dec-2013	07-fev-2014
Shielded enclosure	RAY PROOF	C.GS3	1123	-	-
Software	Nexio	BAT EMC	0000	-	-

BAT-EMC software version: V3.6.0.24

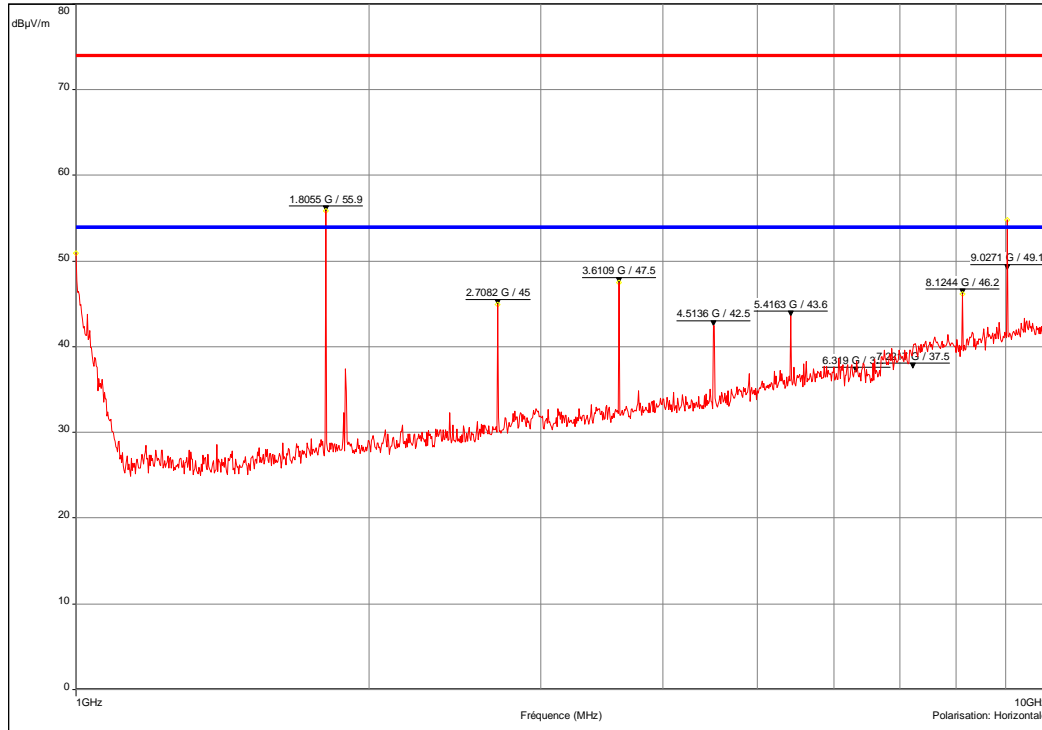
Results: See Boards and Graphs hereafter.

Radiated electric emission (measurement) Front side / CH0 / ELF 900

EMI965

Fréquence (MHz) : 1 GHz - 10 GHz (Mode analyseur)
Réglage: RBW: 100 kHz, VBW: 300 kHz, Temps de mesure : 1 ms/Pts, nombre de Balayages 2
Polarisation : Horizontale
Distance: 3 m

— C.E.M. (civil)/FCC Part.15 - Classe:B - Moyenne/3.0m/
— C.E.M. (civil)/FCC Part.15 - Classe:B - QCrête/3.0m/
— C.E.M. (civil)/FCC Part.15 - Classe:B - Crête/3.0m/
— Mes.Peak (Horizontale)
○ Peak/LimAvg (Horizontale)



Date: 04/07/2012 10:54:00

Technician: DM

Classe: B of the standard

Detection:
Peak

T (°C): 24

H (%): 56

P (hpa): 1005

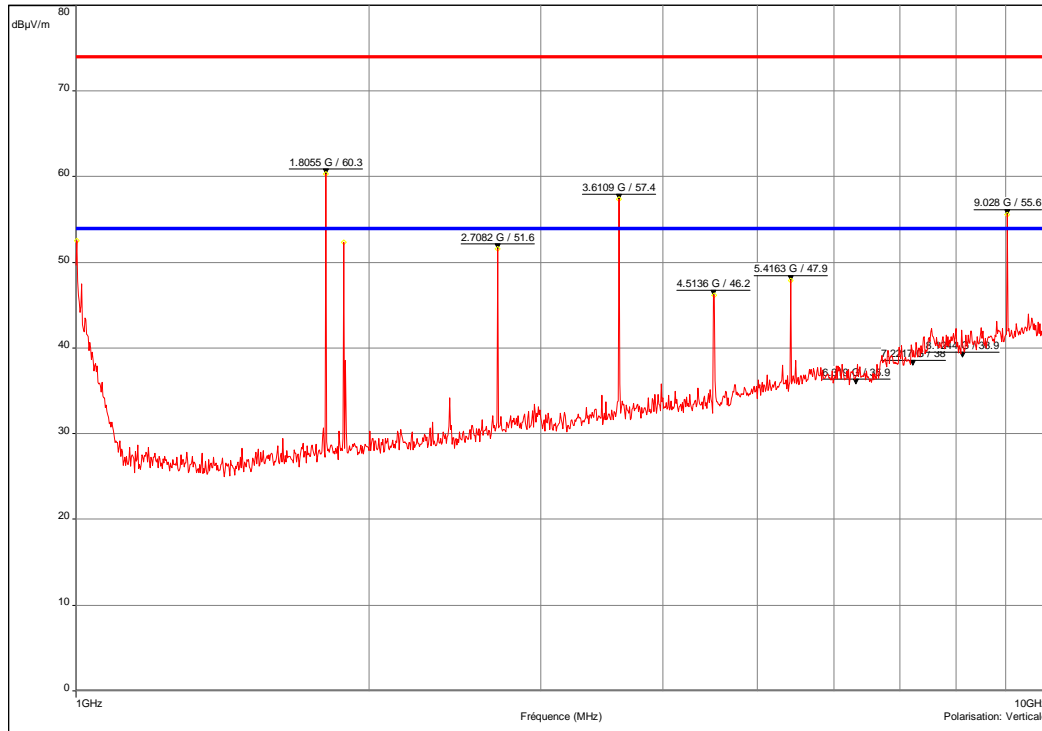
Frequencies without markers (around 1840MHz) are due to ambient DCS

Modification(s) during test:

Front side / CH0 / ELF 900 - 04/07/2012 10:54 - 965

Fréquence (MHz) : 1 GHz - 10 GHz (Mode analyseur)
Réglage: RBW: 100 kHz, VBW: 300 kHz, Temps de mesure : 1 ms/Pts, nombre de Balayages 2
Polarisation : Verticale
Distance: 3 m

— C.E.M. (civil)/FCC Part.15 - Classe:B - Moyenne/3.0m/
— C.E.M. (civil)/FCC Part.15 - Classe:B - QCrête/3.0m/
— C.E.M. (civil)/FCC Part.15 - Classe:B - Crête/3.0m/
— Mes.Peak (Verticale)
○ Peak/LimAvg (Verticale)



Front side / CH0 / ELF 900 - 04/07/2012 10:54 - 965

Front side / CH0 / ELF 900

Frequency (MHz)	Polarization	Peak (dB μ V/m)	Averaging (with duty cycle correction factor of -13.4dB)	Limit (dB μ V/m)	Margin (dB)
1805.50	Vertical	60.30	-	105.82	-45.52
<i>2708.20</i>	<i>Vertical</i>	<i>51.60</i>	<i>38.20</i>	<i>54</i>	<i>-15.80</i>
<i>3610.90</i>	<i>Vertical</i>	<i>57.40</i>	<i>44.00</i>	<i>54</i>	<i>-10.00</i>
<i>4513.60</i>	<i>Vertical</i>	<i>46.20</i>	<i>32.80</i>	<i>54</i>	<i>-21.20</i>
<i>5416.30</i>	<i>Vertical</i>	<i>47.90</i>	<i>34.50</i>	<i>54</i>	<i>-19.50</i>
6319.00	Vertical	(*)	-	105.82	-
7221.70	Vertical	(*)	-	105.82	-
<i>8124.40</i>	<i>Vertical</i>	<i>(*)</i>	-	<i>54</i>	-
<i>9028.00</i>	<i>Vertical</i>	<i>55.60</i>	<i>42.20</i>	<i>54</i>	<i>-11.80</i>
1805.50	Horizontal	55.90	-	105.82	-
<i>2708.20</i>	<i>Horizontal</i>	<i>45.00</i>	<i>31.60</i>	<i>54</i>	<i>-22.40</i>
<i>3610.90</i>	<i>Horizontal</i>	<i>47.50</i>	<i>34.10</i>	<i>54</i>	<i>-19.90</i>
<i>4513.60</i>	<i>Horizontal</i>	<i>42.50</i>	<i>29.10</i>	<i>54</i>	<i>-24.90</i>
<i>5416.30</i>	<i>Horizontal</i>	<i>43.60</i>	<i>30.20</i>	<i>54</i>	<i>-23.80</i>
6319.00	Horizontal	(*)	-	105.82	-
7221.70	Horizontal	(*)	-	105.82	-
<i>8124.40</i>	<i>Horizontal</i>	<i>46.20</i>	<i>32.80</i>	<i>54</i>	<i>-21.20</i>
<i>9028.00</i>	<i>Horizontal</i>	<i>54.10</i>	<i>40.70</i>	<i>54</i>	<i>-13.30</i>

(*) Background noise << limit

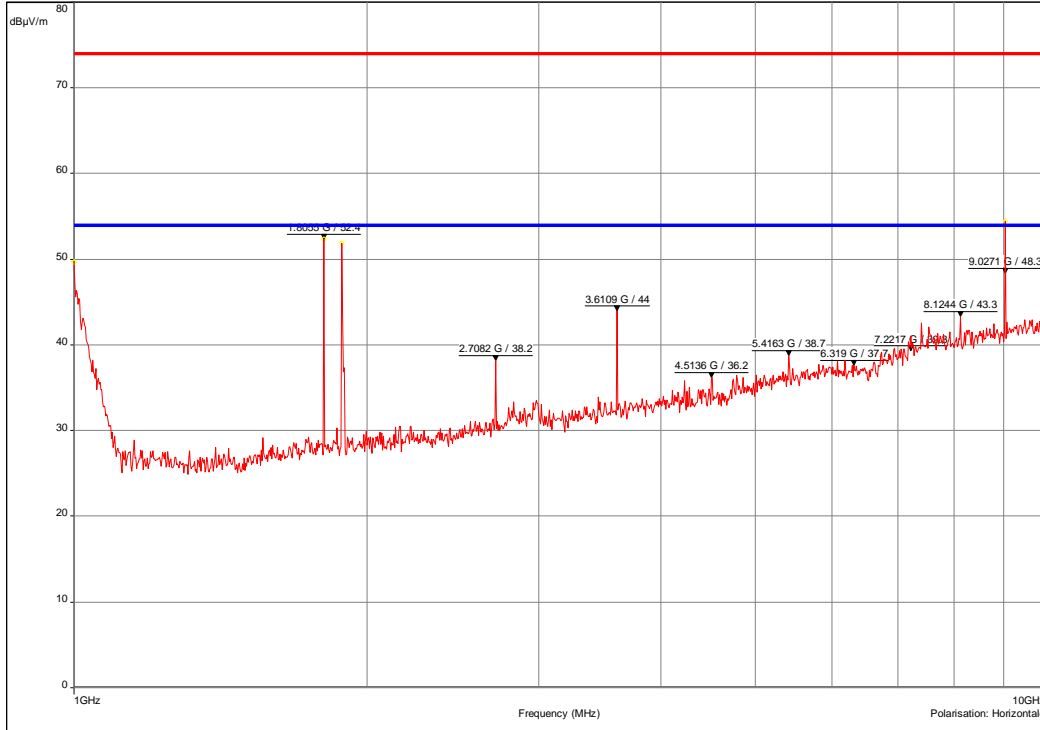
Italic values : Restricted bands of operation defined in §15.205

Radiated electric emission (measurement)
Front side / CH0 / FG 9023

EMI968

Frequency (MHz) : 1 GHz - 10 GHz (Analyzer mode)
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 2
 Polarisation : Horizontale
 Distance: 3 m

— C.E.M. (civil)/FCC Part.15 - Class:B - Moyenne/3.0m/
 — C.E.M. (civil)/FCC Part.15 - Class:B - QCrête/3.0m/
 — C.E.M. (civil)/FCC Part.15 - Class:B - Crête/3.0m/
 — Mes.Peak (Horizontale)
 ◊ Peak/LimAvg (Horizontale)



Date: 04/07/2012 11:14:37

Technician: DM

Classe: B of the standard

Detection:
Peak

T (°C): 24

H (%): 56

P (hpa): 1005

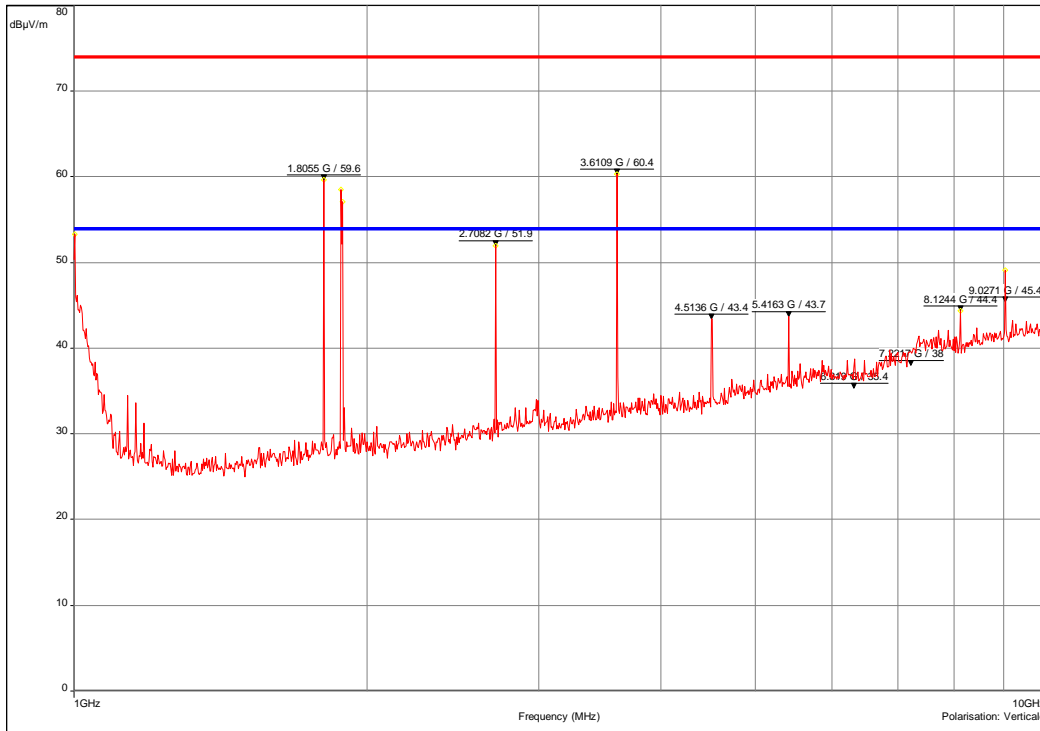
Frequencies without markers (around 1840MHz) are due to ambient DCS

Modification(s) during test:

Front side / CH0 / FG 9023 - 07/04/2012 11:14 - 968

Frequency (MHz) : 1 GHz - 10 GHz (Analyzer mode)
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 2
 Polarisation : Verticale
 Distance: 3 m

— C.E.M. (civil)/FCC Part.15 - Class:B - Moyenne/3.0m/
 — C.E.M. (civil)/FCC Part.15 - Class:B - QCrête/3.0m/
 — C.E.M. (civil)/FCC Part.15 - Class:B - Crête/3.0m/
 — Mes.Peak (Verticale)
 ◊ Peak/LimAvg (Verticale)



Front side / CH0 / FG 9023 - 07/04/2012 11:14 - 968

Front side / CH0 / FG 9023

Frequency (MHz)	Polarization	Peak (dB μ V/m)	Averaging (with duty cycle correction factor of -13.4dB)	Limit (dB μ V/m)	Margin (dB)
1805.50	Vertical	59.6	-	103.60	-44.00
<i>2708.20</i>	<i>Vertical</i>	<i>51.90</i>	<i>38.50</i>	<i>54</i>	<i>-15.50</i>
<i>3610.90</i>	<i>Vertical</i>	<i>60.40</i>	<i>47.00</i>	<i>54</i>	<i>-7.00</i>
<i>4513.60</i>	<i>Vertical</i>	<i>43.40</i>	<i>30.00</i>	<i>54</i>	<i>-24.00</i>
<i>5416.30</i>	<i>Vertical</i>	<i>43.70</i>	<i>30.30</i>	<i>54</i>	<i>-23.70</i>
6319.00	Vertical	(*)	-	103.60	-
7221.70	Vertical	(*)	-	103.60	-
<i>8124.40</i>	<i>Vertical</i>	<i>44.40</i>	<i>31.00</i>	<i>54</i>	<i>-23.00</i>
<i>9028.00</i>	<i>Vertical</i>	<i>48.40</i>	<i>35.00</i>	<i>54</i>	<i>-19</i>
9931.60	Vertical	49.30	-	103.60	-54.30
1805.50	Horizontal	52.40	-	103.60	-51.20
<i>2708.20</i>	<i>Horizontal</i>	<i>38.20</i>	<i>24.80</i>	<i>54</i>	<i>-29.20</i>
<i>3610.90</i>	<i>Horizontal</i>	<i>44.00</i>	<i>30.60</i>	<i>54</i>	<i>-23.40</i>
<i>4513.60</i>	<i>Horizontal</i>	<i>36.20</i>	<i>22.80</i>	<i>54</i>	<i>-31.20</i>
<i>5416.30</i>	<i>Horizontal</i>	<i>38.70</i>	<i>25.30</i>	<i>54</i>	<i>-28.70</i>
6319.00	Horizontal	(*)	-	103.60	-
7221.70	Horizontal	(*)	-	103.60	-
<i>8124.40</i>	<i>Horizontal</i>	<i>43.30</i>	<i>29.90</i>	<i>54</i>	<i>-24.10</i>
<i>9028.00</i>	<i>Horizontal</i>	<i>54.30</i>	<i>40.90</i>	<i>54</i>	<i>-13.10</i>
9931.60	Horizontal	45.10	31.70	103.60	-71.90

(*) Background noise << limit

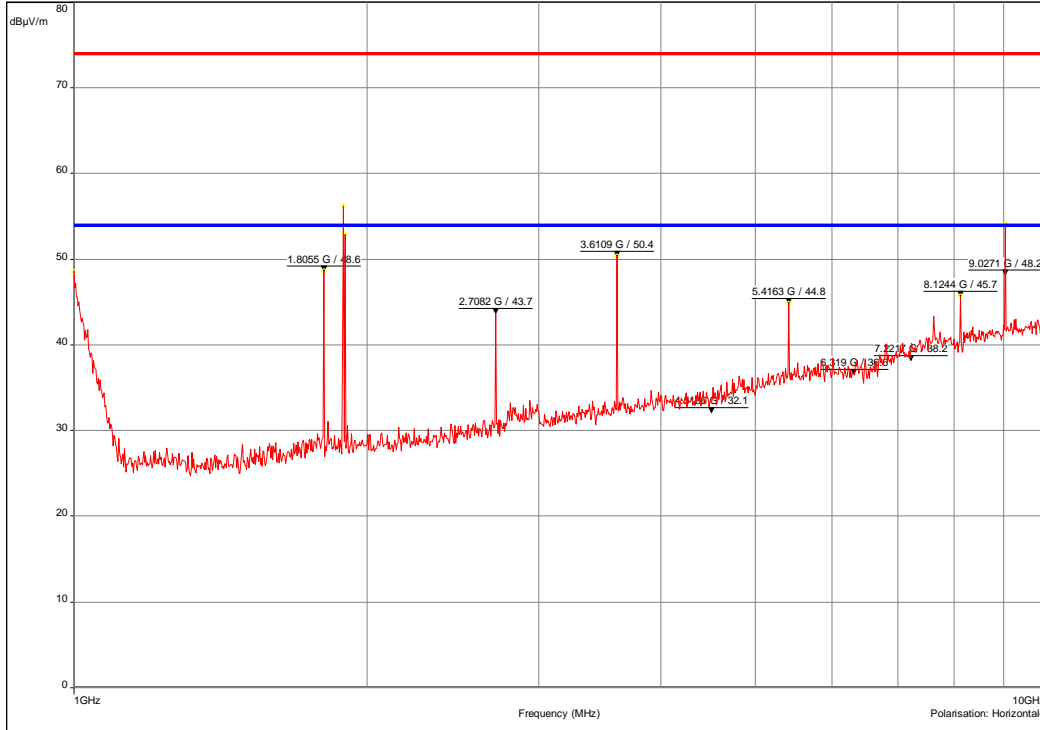
Italic values : Restricted bands of operation defined in §15.205

Radiated electric emission (measurement)
Front side / CH0 / FG 9026

EMI970

Frequency (MHz) : 1 GHz - 10 GHz (Analyzer mode)
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 2
 Polarisation : Horizontale
 Distance: 3 m

— C.E.M. (civil)/FCC Part.15 - Class:B - Moyenne/3.0m/
 — C.E.M. (civil)/FCC Part.15 - Class:B - QCrête/3.0m/
 — C.E.M. (civil)/FCC Part.15 - Class:B - Crête/3.0m/
 — Mes.Peak (Horizontale)
 ● Peak/LimAvg (Horizontale)



Date: 04/07/2012 11:24:11

Technician: DM

Classe: B of the standard

Detection:
Peak

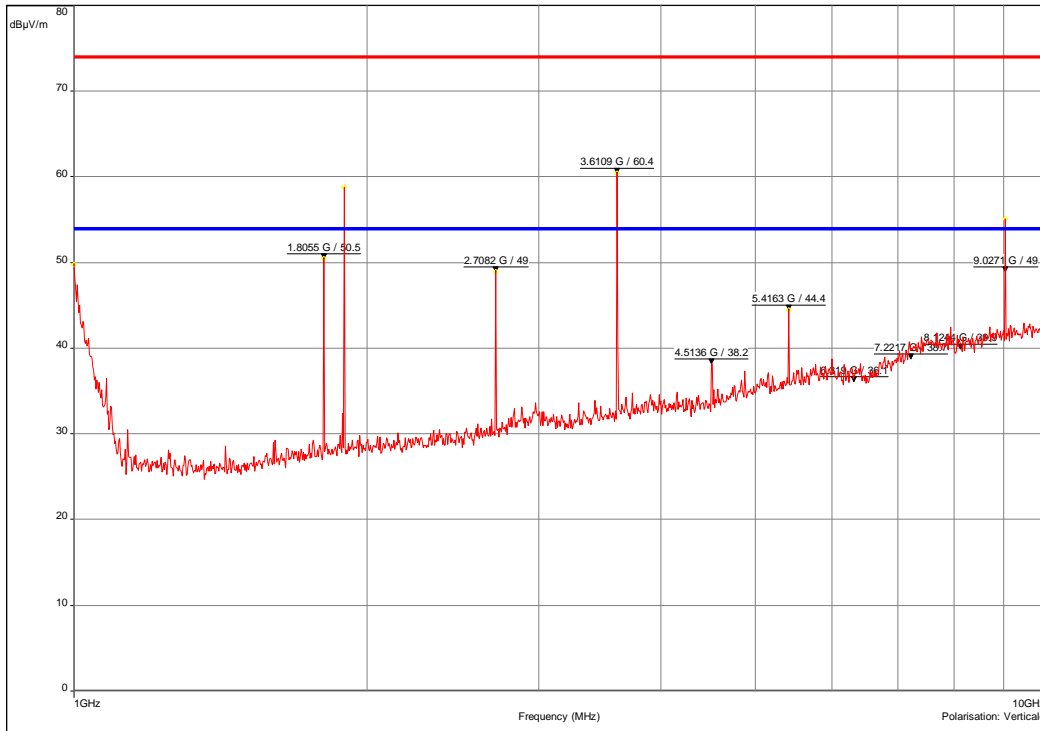
T (°C): 24
 H (%): 56
 P (hpa): 1005

Frequencies without markers (around 1840MHz) are due to ambient DCS

Modification(s) during test:

Front side / CH0 / FG 9026 - 07/04/2012 11:24 - 970
 Frequency (MHz) : 1 GHz - 10 GHz (Analyzer mode)
 Settings: RBW: 100 kHz, VBW: 300 kHz, Holding time: 1 ms/Pt, sweep count 2
 Polarisation : Verticale
 Distance: 3 m

— C.E.M. (civil)/FCC Part.15 - Class:B - Moyenne/3.0m/
 — C.E.M. (civil)/FCC Part.15 - Class:B - QCrête/3.0m/
 — C.E.M. (civil)/FCC Part.15 - Class:B - Crête/3.0m/
 — Mes.Peak (Verticale)
 ● Peak/LimAvg (Verticale)



Front side / CH0 / FG 9026 - 07/04/2012 11:24 - 970

Front side / CH0 / FG 9026

Frequency (MHz)	Polarization	Peak (dB μ V/m)	Averaging (with duty cycle correction factor of -13.4dB)	Limit (dB μ V/m)	Margin (dB)
1805.50	Vertical	50.50	-	106.61	-56.11
<i>2708.20</i>	<i>Vertical</i>	<i>49.00</i>	<i>35.60</i>	<i>54</i>	<i>-18.40</i>
<i>3610.90</i>	<i>Vertical</i>	<i>60.40</i>	<i>47.00</i>	<i>54</i>	<i>-7.00</i>
<i>4513.60</i>	<i>Vertical</i>	<i>38.20</i>	<i>24.80</i>	<i>54</i>	<i>-29.20</i>
<i>5416.30</i>	<i>Vertical</i>	<i>44.40</i>	<i>31</i>	<i>54</i>	<i>-23.00</i>
6319.00	Vertical	(*)	-	106.61	-
7221.70	Vertical	(*)	-	106.61	-
<i>8124.40</i>	<i>Vertical</i>	<i>(*)</i>	<i>-</i>	<i>54</i>	<i>-</i>
<i>9028.00</i>	<i>Vertical</i>	<i>55.10</i>	<i>41.70</i>	<i>54</i>	<i>-12.30</i>
9931.60	Vertical	49.90	-	106.61	-56.71
1805.50	Horizontal	48.60	-	106.61	-58.01
<i>2708.20</i>	<i>Horizontal</i>	<i>43.70</i>	<i>30.30</i>	<i>54</i>	<i>-23.70</i>
<i>3610.90</i>	<i>Horizontal</i>	<i>50.40</i>	<i>37.00</i>	<i>54</i>	<i>-17</i>
<i>4513.60</i>	<i>Horizontal</i>	<i>(*)</i>	<i>-</i>	<i>54</i>	<i>-</i>
<i>5416.30</i>	<i>Horizontal</i>	<i>44.80</i>	<i>31.40</i>	<i>54</i>	<i>-22.60</i>
6319.00	Horizontal	(*)	-	106.61	-
7221.70	Horizontal	(*)	-	106.61	-
<i>8124.40</i>	<i>Horizontal</i>	<i>45.70</i>	<i>32.30</i>	<i>54</i>	<i>-21.70</i>
<i>9028.00</i>	<i>Horizontal</i>	<i>54.00</i>	<i>40.60</i>	<i>54</i>	<i>-13.40</i>
9931.60	Horizontal	50.00	-	106.61	-56.61

(*) Background noise << limit



Italic values : Restricted bands of operation defined in §15.205

□□□ End of report – 1 annex to be forwarded □□□

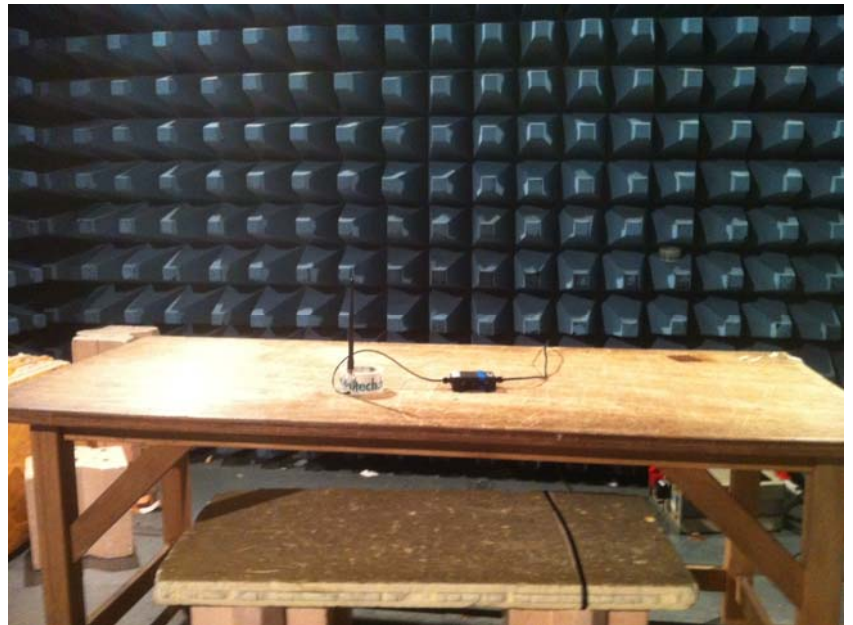
ANNEX: PHOTOGRAPH(S)

EQUIPMENT UNDER TEST (E.U.T.) PHOTOGRAPH(S)

WIRELESS MODEM ARF 53

<p>E.U.T. marking plate</p>	
<p>Conducted emissions</p>	

Unwanted emissions



Unwanted emissions

