



R051-24-09-102440-2/A Ed. 0

**FCC CERTIFICATION
RADIO Measurement
Technical Report**

**standard to apply:
FCC Part 15**

**Equipment under test:
BLUETOOTH HANDS FREE CAR KIT
CK3100**

**FCC ID :
RKXCK3102**

**Company:
PARROT**

DISTRIBUTION: Mr BEN YACOUB

Company: PARROT

Number of pages: 40 including 5 annexes

| Ed. | Date | Modified pages | Written by | | Technical Verification Quality Approval | |
|-----|-----------|----------------|-------------|-------|---|------|
| | | | Name | Visa | Name | Visa |
| 0 | 29-Jun-09 | Creation | M. DUMESNIL | M. D. | | |

Duplication of this test report is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above.

This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of the whole manufactured products of the tested sample.



PRODUCT: BLUETOOTH HANDS FREE CAR KIT

Reference / model: CK3100

Trade mark: PARROT

Serial number: not communicated

MANUFACTURER: PARROT

COMPANY SUBMITTING THE PRODUCT:

Company: PARROT

Address: 174 quai de Jemmapes
75010 PARIS
FRANCE

Responsible: M. BEN YACOUB

DATE(S) OF TEST: 04 and 06 june 2009

TESTING LOCATION: EMITECH ATLANTIQUE laboratory at ANGERS (49) FRANCE
EMITECH ATLANTIQUE open area test site in LA POUZEZE (49)
FRANCE

Registration Number by FCC: 101696/FRN: 0006 6490 08

TESTED BY: M. DUMESNIL

TUTOR: P. BONNENFANT

CONTENTS

| TITLE | PAGE |
|--|------|
| 1. INTRODUCTION..... | 4 |
| 2. PRODUCT DESCRIPTION | 4 |
| 3. NORMATIVE REFERENCE..... | 5 |
| 4. TEST METHODOLOGY | 5 |
| 5. ADD ATTACHMENTS FILES | 5 |
| 6. TESTS AND CONCLUSIONS | 6 |
| 7. MEASUREMENT OF RADIATED INTERFERENCE FIELD STRENGTH | 8 |
| 8. PEAK OUTPUT POWER..... | 10 |
| 9. RADIATED EMISSION OF TRANSMITTER..... | 12 |
| 10. BAND EDGE COMPLIANCE | 16 |
| CURVE N°: 1..... | 18 |
| CURVE N°: 2..... | 19 |
| ANNEX 1: OCCUPIED POWER BANDWIDTH AND CHANNEL SEPARATION | 20 |
| ANNEX 2: AVERAGE TIME OF OCCUPANCY ON ANY FREQUENCY | 26 |
| ANNEX 3: NUMBER OF HOPPING FREQUENCIES | 32 |
| ANNEX 4: PHOTOS OF THE EQUIPMENT UNDER TEST | 36 |
| ANNEX 5: TEST SET UP AND OPEN AREA TEST SITE | 39 |

1. INTRODUCTION

This document presents the result of RADIO test carried out on the following equipment:
BLUETOOTH HANDS FREE CAR KIT – CK3100 in accordance with normative reference.

2. PRODUCT DESCRIPTION

ITU Emission code: 1M00G7E

Class: B (residential environment)

Utilization: Bluetooth hands free car kit

Antenna type: incorporated antenna

Operating frequency range: from 2402 MHz to 2480 MHz

Number of channels: 79

Channel spacing: 1 MHz

Frequency generation: SAW Resonator Crystal Synthetiser

Modulation: Frequency Hopping Spread Spectrum (FHSS)
 Amplitude Digital Frequency Phase

Power source: 12 Vd.c

Power level, frequency range and channels characteristics are not user adjustable.

The details pictures of the product and the circuit boards are joined with this file.

3. NORMATIVE REFERENCE

The standards and testing methods related throughout this report are those listed below. They are applied on the whole test report even though the extensions (version, date and amendment) are not repeated.

| | |
|-------------------------|--|
| FCC Part 15 (2008) | Code of Federal Regulations Title 47 – Telecommunication Chapter 1 – Federal Communications Commission Part 15 – Radio frequency devices Subpart C – Intentional Radiators |
| ANSI C63.4 (2003) | Methods of Measurement of Radio-Noise Emissions from Low-voltage Electrical and Electronics Equipment in the range of 9 kHz to 40 GHz. |
| Public Notice DA 00-705 | Filing and Measurement Guideline for Frequency Hopping Spread Spectrum Systems. |

4. TEST METHODOLOGY

Radio performance tests procedures given in part 15:

- Paragraph 33: frequency range of radiated measurements
- Paragraph 35: measurement detector functions and bandwidths
- Paragraph 203: antenna requirement
- Paragraph 205: restricted bands of operation
- Paragraph 207: conducted limits
- Paragraph 209: radiated emission limits; general requirements
- Paragraph 247: operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz

5. ADD ATTACHMENTS FILES

- “Synoptic “***
- “Block diagram “***
- “External photos and Product labeling “***
- “Assembly of components “***
- “Internal photos “***
- “Layout pcb “***
- “Bil of materials “***
- “Schematics “***
- “Product description “***
- “User guide “***

6. TESTS AND CONCLUSIONS

6.1 intentional radiator (subpart C)

| Test procedure | Description of test | Criteria respected? | | | | Comment |
|-----------------|--|---------------------|----|-----|-----|---------------|
| | | Yes | No | Nap | Nas | |
| FCC Part 15.203 | ANTENNA REQUIREMENT | X | | | | <i>Note 1</i> |
| FCC Part 15.205 | RESTRICTED BANDS OF OPERATION | X | | | | |
| FCC Part 15.207 | CONDUCTED LIMITS | | | X | | |
| FCC Part 15.209 | RADIATED EMISSION LIMITS; general requirements | X | | | | <i>Note 2</i> |
| FCC Part 15.247 | OPERATION WITHIN THE BAND 902-928 MHZ, 2400-2483.5 MHz and 5725-5850 MHz | | | | | |
| | (a) (1) <i>hopping systems</i> | X | | | | <i>Note 3</i> |
| | (a) (1) (i) 902 – 928 MHz | | | X | | |
| | (a) (1) (ii) 5725 – 5850 MHz | | | X | | |
| | (a) (1) (iii) 2400 – 2483.5 MHz | X | | | | <i>Note 4</i> |
| | (a) (2) <i>digital modulation techniques</i> | | | X | | |
| | (b) <i>max output power</i> | X | | | | <i>Note 5</i> |
| | (c) <i>operation with directional antenna gains > 6 dBi</i> | | | X | | <i>Note 6</i> |
| | (d) <i>intentional radiator</i> | X | | | | <i>Note 7</i> |
| | (e) <i>peak power spectral density</i> | | | X | | |
| | (f) <i>hybrid system</i> | | | X | | |
| | (g) | | | X | | |
| | (h) | | | X | | |
| | (i) <i>RF exposure compliance</i> | X | | | | <i>Note 8</i> |
| DA 00-705 | BAND EDGE COMPLIANCE | X | | | | |

Nap: Not Applicable

Nas: Not Asked

Note 1: internal antenna (pcb antenna, see photos in annex 4).

Note 2: see FCC part 15.247 (d).

Note 3: the system hops to channel frequencies from a pseudo randomly ordered list of hopping frequencies. Each frequency is used equally on the average by the transmitter, and separated by a minimum of 20 dB bandwidth of the hopping channel (816 kHz; see annex 1).

Note 4: the frequency hopping system uses 79 channels (see annex 3).

The timing by channel is 393 μs. During 79 channels × 0.4 s (part 15) = 31.6 s, any channel is used 127 times, then 127 × 393 μs = 49.91 ms, thus the average time of occupancy on any channel is less than 400 ms within a period of 0.4 s multiplied by the number of hopping channels employed, in normal operating mode (see annex 2).

Note 5: conducted measurement is not possible (integral antenna), so we used the radiated method in open field.

Note 6: the antenna gain is less than 6 dBi.

Note 7: this test is realized on lowest and highest channels.

Note 8: this type of equipment uses less than 0.5 W of output power with a high signal transmitting duty factor (section 3 from Oet 65c).

6.2 unintentional radiator (subpart B)

| Test procedure | Description of test | Criteria respected? | | | | Comment |
|-----------------|------------------------------------|---------------------|----|-----|-----|-------------------------|
| | | Yes | No | Nap | Nas | |
| FCC Part 15.107 | CONDUCTED DISTURBANCES MEASUREMENT | | | X | | Class B |
| FCC Part 15.109 | RADIATED INTERFERENCE | X | | | | Class B |
| FCC Part 15.111 | CONDUCTED ANTENNA PORT | | | X | | <i>Integral antenna</i> |

Nap: Not Applicable

Nas: Not Asked

6.3 Conclusion:

The sample of BLUETOOTH HANDS FREE CAR KIT – CK3100 submitted to the tests complies with the regulations of the standard FCC Part 15 in accordance with the limits or criteria defined in this report.

7. MEASUREMENT OF RADIATED INTERFERENCE FIELD STRENGTH

Standard: FCC Part 15

Test procedure: FCC Part 15 Unintentional Radiators: Sec.15.109

Limits: Class B

Test equipment:

| TYPE | BRAND | EMITECH NUMBER |
|------------------------------|----------------------------|-----------------------|
| Test receiver | Rohde & Schwarz ESVS 10 | 1219 |
| Biconical antenna | Hewlet Packard 11966 C | 728 |
| Log periodic antenna | Rohde & Schwarz HL 223 | 1999 |
| Double ridged guild antenna | Electrometrics EM 6961 | 1204 |
| Spectrum analyser | Rohde & Schwarz FSP40 | 4088 |
| Open area test site | EMITECH | 1274 |
| Preamplifier | ALC ALN02 | 2648 |
| High pass filter | MICROTRONICS HPM11630 | 6609 |
| Spectrum analyser | ADVANTEST R3131 | 1628 |
| Power source | Hewlett Packard E3610A | 4195 |
| Multimeter | Fluke 77-2 | 0812 |
| Radio communication analyzer | Rohde & Schwarz CMD55 | 3591 |

Test set up:

The system is tested in an open area test site (OATS).

The test unit is placed on a rotating table, 0.8 m from a ground plane. Zero degree azimuth corresponds to the front of the equipment under test.

Cables disposition of unit under test:

See photos of the test unit configuration in annex 5.

Frequency range: The highest frequency generated in the device is $f = 2480$ MHz
According the Sec.15.33 of the FCC Part 15 standard, the frequency range measured is indicated in the following table:

For unintentional radiator, including a digital device (Sec.15.33, §(b)(1) of the FCC Part 15 standard) :

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|--|--|
| Above 1000 | 5 th harmonic of the highest frequency or 40GHz, whichever is lower |

Detection mode: Quasi-peak for the range 30 MHz - 1 GHz
Average for $f > 1$ GHz

Bandwidth: 120 kHz for the range 30 MHz - 1 GHz
1 MHz for $f > 1$ GHz

Distance of antenna: class B: 3 meters

Antenna height: 1 to 4 m

Antenna polarization: vertical and horizontal

Equipment under test operating condition:

The equipment under test was powered in 12 Vd.c by an external power source.
The equipment under test was in continuous reception mode.

Results:

For the range 30 MHz - 1 GHz, the initial measurements are made in Peak detection mode with a spectrum analyser. Emissions with peak levels within 6 dB of the prescribed limits are re-measured using a Quasi-peak detector.

Not any unintentional radiator has been detected during this test.

Applicable limits: For $30 \text{ MHz} \leq F < 88 \text{ MHz}$: 40 dB μ V/m
 $88 \text{ MHz} \leq F < 216 \text{ MHz}$: 43.5 dB μ V/m
 $216 \text{ MHz} \leq F < 960 \text{ MHz}$: 46 dB μ V/m
 $F \geq 960 \text{ MHz}$: 54 dB μ V/m

Test conclusion:

RESPECTED STANDARD

8. PEAK OUTPUT POWER

Standard: FCC Part 15

Test procedure: paragraph 15.247

Test equipment:

| TYPE | BRAND | EMITECH NUMBER |
|------------------------------------|-------------------|-----------------------|
| Spectrum analyzer FSP 40 | Rohde & Schwarz | 4088 |
| Antenna RGA60 | Electrometrics | 1204 |
| Open site | EMITECH | 1274 |
| Power source E3610A | Hewlett Packard | 4195 |
| Multimeter 77-2 | Fluke | 0812 |
| Radio communication analyzer CMD55 | Rohde & Schwartz | 3591 |
| Meteo station | Oregon scientific | 1539 |

Test set up:

The system is tested in an open area test site (OATS).

The test unit is placed on a rotating table, 0.8 m from a ground plane. Zero degree azimuth corresponds to the front of the equipment under test.

We use for this measure outdoor test site. The measuring distance between the equipment and the test antenna is 3 m. The test antenna has been oriented in the two polarizations, we have recorded only the highest level.

A measurement of the electro-magnetic field is realized, with a resolution bandwidth and video bandwidth adjusted at 1 MHz.

Distance of antenna: 3 meters

Antenna height: 1 to 4 meters

Antenna polarization: vertical and horizontal

Equipment under test operating condition:

The equipment under test is blocked in continuous transmission mode, modulated by internal data signal, at the highest output power level which the transmitter is intended to operate.

Results:

Ambient temperature (°C): 26

Relative humidity (%): 37

Power source: 12 Vd.c by an external power source

Sample n° 1 Channel 1

| | | Level dB μ V | Cable loss dB | Antenna factor dB | Electro-magnetic field (dB μ V/m): | P* (W) |
|-------------------------------|------------------------------|------------------|---------------|-------------------|--|-------------------------|
| Normal test conditions | Nominal power source (V): 12 | 62.54 | 4.97 | 28.61 | 96.12 | 744.11x10 ⁻⁶ |

Polarization of test antenna: horizontal (height: 140 cm)

Position of equipment: see photo in annex 5 (azimuth: 217 degrees)

Sample n° 1 Channel 40

| | | Level dB μ V | Cable loss dB | Antenna factor dB | Electro-magnetic field (dB μ V/m): | P* (W) |
|-------------------------------|------------------------------|------------------|---------------|-------------------|--|---------------------------|
| Normal test conditions | Nominal power source (V): 12 | 62.34 | 5.01 | 28.72 | 96.07 | 735.59 x 10 ⁻⁶ |

Polarization of test antenna: horizontal (height: 209 cm)

Position of equipment: see photo in annex 5 (azimuth: 236 degrees)

Sample n° 1 Channel 79

| | | Level dB μ V | Cable loss dB | Antenna factor dB | Electro-magnetic field (dB μ V/m): | P* (W) |
|-------------------------------|------------------------------|------------------|---------------|-------------------|--|---------------------------|
| Normal test conditions | Nominal power source (V): 12 | 62.11 | 5.06 | 28.84 | 96.01 | 725.50 x 10 ⁻⁶ |

* $P = (E \times d)^2 / (30 \times G_p)$ with $d = 3$ m and $G_p = 1.65$

Polarization of test antenna: horizontal (height: 208 cm)

Position of equipment: see photo in annex 5 (azimuth: 224 degrees)

Test conclusion:

RESPECTED STANDARD

9. RADIATED EMISSION OF TRANSMITTER

Standard: FCC Part 15

Test procedure: paragraph 15.205
 paragraph 15.209
 paragraph 15.247

Test equipment:

| TYPE | BRAND | EMITECH NUMBER |
|--|-------------------|----------------|
| Test receiver ESH3 | Rohde & Schwarz | 1058 |
| Test receiver ESVS 10 | Rohde & Schwarz | 1219 |
| Spectrum analyzer FSP 40 | Rohde & Schwarz | 4088 |
| Loop antenna | EMCO | 1406 |
| Biconical antenna HP 11966C | Hewlett Packard | 728 |
| Log periodic antenna HL 223 | Rohde & Schwarz | 1999 |
| Open site | Emitech | 1274 |
| Antenna RGA-60 | Electrometrics | 1204 |
| Low-noise amplifier 2 to 18 GHz | Microwave DB | 1922 |
| High pass filter HP12/3200-5AA | Filtek | |
| Antenna WR42 | IMC | 1939 |
| Power source E3610A | Hewlett Packard | 4195 |
| Low-noise amplifier 18 to 26 GHz | ALC | 3036 |
| Multimeter 77-2 | Fluke | 0812 |
| Radio communication analyzer CMD 55 | Rohde & Schwarz | 3591 |
| Meteo station AB 888 | Oregon scientific | 1539 |

Test set up:

The system is tested in an open area test site (OATS).

The test unit is placed on a rotating table, 0.8 m from a ground plane. Zero degree azimuth corresponds to the front of the equipment under test.

Frequency range: from 9 kHz to harmonic 10 ($F_{\text{carrier}} \leq 10 \text{ GHz}$)

Bandwidth: 120 kHz ($F < 1 \text{ GHz}$) or 100 kHz, following 15.205 or 15.247
1 MHz ($F > 1 \text{ GHz}$) or 100 kHz, following 15.205 or 15.247

Distance of antenna: between 30 m and 3 m according the frequencies and the limits.

Antenna height: 1 to 4 meters

Antenna polarization: vertical and horizontal, only the highest level is recorded.

Equipment under test operating condition:

The equipment under test is blocked in continuous transmission mode, modulated by internal data signal, at the highest output power level which the transmitter is intended to operate.
This test is realized on lowest and highest channels.

Results:

Ambient temperature (°C): 28.5
 Relative humidity (%): 31

Power source: 12 Vd.c by an external power source.

The polarity column refers to the antenna polarity at which the maximum emissions level is measured.

Channel 1

| FREQUENCIES (MHz) | Detector P: Peak QP: Quasi-Peak Av: Average | Antenna height (cm) | Azimuth (degree) | resolution bandwidth (kHz) | Polarization H: Horizontal V: Vertical | Field strength (dBµV/m) | Limits (dBµV/m) | Margin (dB) |
|-------------------|--|---------------------|------------------|----------------------------|--|-------------------------|-----------------|-------------|
| 140.8 | QP | 227 | 102 | 120 | H | 43.5 | 75.80 | 32.30 |
| 204.79 | QP | 100 | 347 | 120 | V | 40.3 | 75.80 | 35.50 |
| 217.59 | QP | 126 | 147 | 120 | H | 41.2 | 75.80 | 34.60 |
| 234 | QP | 158 | 13 | 120 | V | 30.5 | 75.80 | 45.30 |
| 268.79 | QP | 100 | 143 | 120 | H | 42.5 | 46.02* | 3.52 |

Channel 40

| FREQUENCIES (MHz) | Detector P: Peak QP: Quasi-Peak Av: Average | Antenna height (cm) | Azimuth (degree) | resolution bandwidth (kHz) | Polarization H: Horizontal V: Vertical | Field strength (dBµV/m) | Limits (dBµV/m) | Margin (dB) |
|-------------------|--|---------------------|------------------|----------------------------|--|-------------------------|-----------------|-------------|
| 140.8 | QP | 227 | 102 | 120 | H | 43.5 | 75.80 | 32.30 |
| 204.79 | QP | 100 | 347 | 120 | V | 40.3 | 75.80 | 35.50 |
| 217.59 | QP | 126 | 147 | 120 | H | 41.2 | 75.80 | 34.60 |
| 234 | QP | 158 | 13 | 120 | V | 30.5 | 75.80 | 45.30 |
| 268.79 | QP | 100 | 143 | 120 | H | 42.5 | 46.02* | 3.52 |

Channel 79

| FREQUENCIES (MHz) | Detector P: Peak QP: Quasi-Peak Av: Average | Antenna height (cm) | Azimuth (degree) | resolution bandwidth (kHz) | Polarization H: Horizontal V: Vertical | Field strength (dBµV/m) | Limits (dBµV/m) | Margin (dB) |
|-------------------|--|---------------------|------------------|----------------------------|--|-------------------------|-----------------|-------------|
| 140.8 | QP | 227 | 102 | 120 | H | 43.5 | 75.80 | 32.30 |
| 204.79 | QP | 100 | 347 | 120 | V | 40.3 | 75.80 | 35.50 |
| 217.59 | QP | 126 | 147 | 120 | H | 41.2 | 75.80 | 34.60 |
| 234 | QP | 158 | 13 | 120 | V | 30.5 | 75.80 | 45.30 |
| 268.79 | QP | 100 | 143 | 120 | H | 42.5 | 46.02* | 3.52 |

* restricted bands of operation in 15.205, this limit corresponding at the 15.209 section.

Applicable limits : In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

The highest level recorded in a 100 kHz bandwidth is 95.80 dB μ V/m on channel 40.

So the applicable limit is 75.80 dB μ V/m.

In addition, radiated emissions which fall in the restricted band, as defined in section 15.205 (a), must also comply with the radiated emission limits specified in section 15.209 (a) (see section 15.205 (c)).

TEST CONCLUSION:

RESPECTED STANDARD

10. BAND EDGE COMPLIANCE

Standard: FCC Part 15.247

Test procedure: Public Notice DA 00-705, Delta Marker method

Test equipment used:

| TYPE | MANUFACTURER | EMITECH NUMBER |
|--|-----------------|----------------|
| Spectrum analyzer FSP 40 | Rohde & Schwarz | 4088 |
| Antenna RGA-60 | Electrometrics | 1204 |
| Power source E3610A | Hewlett Packard | 4195 |
| Radio communication analyzer CMD 55 | Rohde & Schwarz | 3591 |
| Multimeter 77-2 | fluke | 0812 |

Measured condition:

Requirements: Emissions that fall in the restricted bands (part 15.205). These emissions must be less than or equal to 500 $\mu\text{V/m}$ (54 $\text{dB}\mu\text{V/m}$) Part 15.35b applies in the restricted bands.

Test procedure: An in band field strength measurement of the fundamental Emission using the RBw and detector function required by C63.4-2003 and FCC Rules.

Test operating condition of the equipment:

The equipment is blocked in frequency hopping mode.

Results:

Lower Band Edge: from 2310 MHz to 2390 MHz, CURVE n° 1

Upper Band Edge: from 2483.5 MHz to 2500 MHz, CURVE n° 2

Sample n°1:

| Fundamental frequency (MHz) | Field Strength Level of fundamental (dBµV/m) | Detector (Peak or Average) | Frequency of maximum Band-edges Emission (MHz) | Delta Marker (dB)* | Calculated Max Out of Band Emission Level (dBµV/m)** | Limit (dBµV/m) | Margin (dB) |
|-----------------------------|--|----------------------------|--|--------------------|--|----------------|-------------|
| 2402 | 96.12 | Peak | 2323.800 | -47.40 | 48.72 (1) | 73.98 | 25.26 |
| 2480.144 | 96.01 | peak | 2498.272 | -52.85 | 43.16 (1) | 73.98 | 30.82 |

* according to step 2 of Marker-Delta Method DA 00-705.

** according to step 3 of Marker-Delta Method:

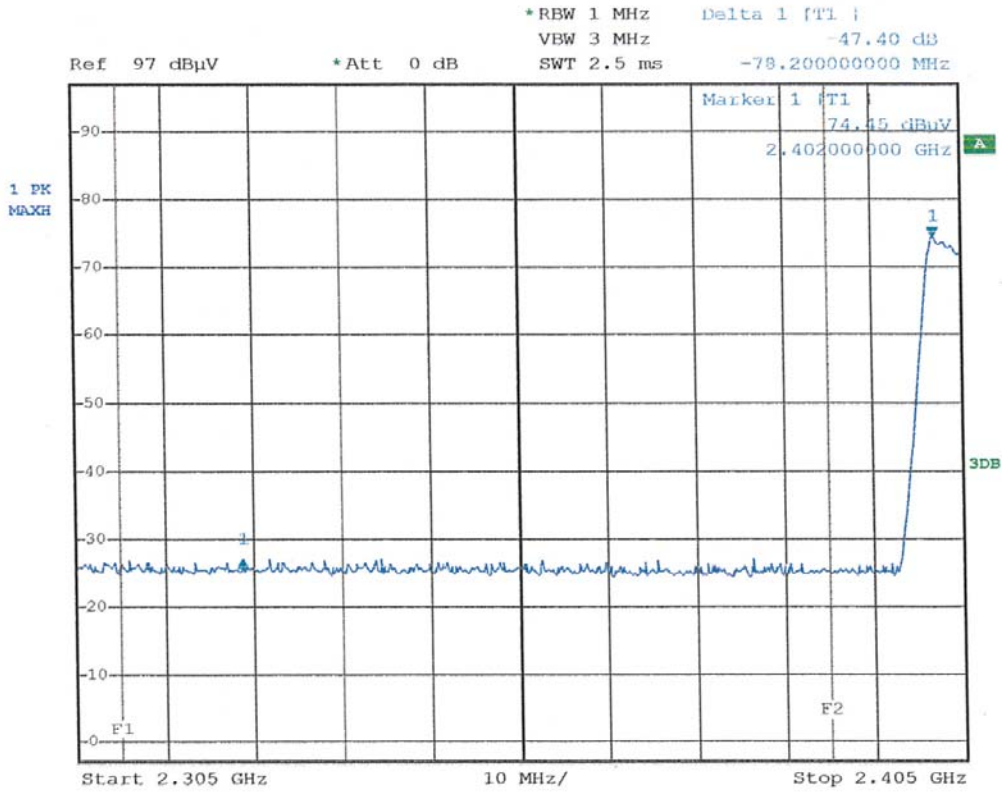
Calculated Emission Level = Field Strength Level – Delta Marker Level

(1) the peak level is lower than the average limit (53.98 dBµV/m).

Test conclusion:

RESPECTED PUBLIC NOTICE

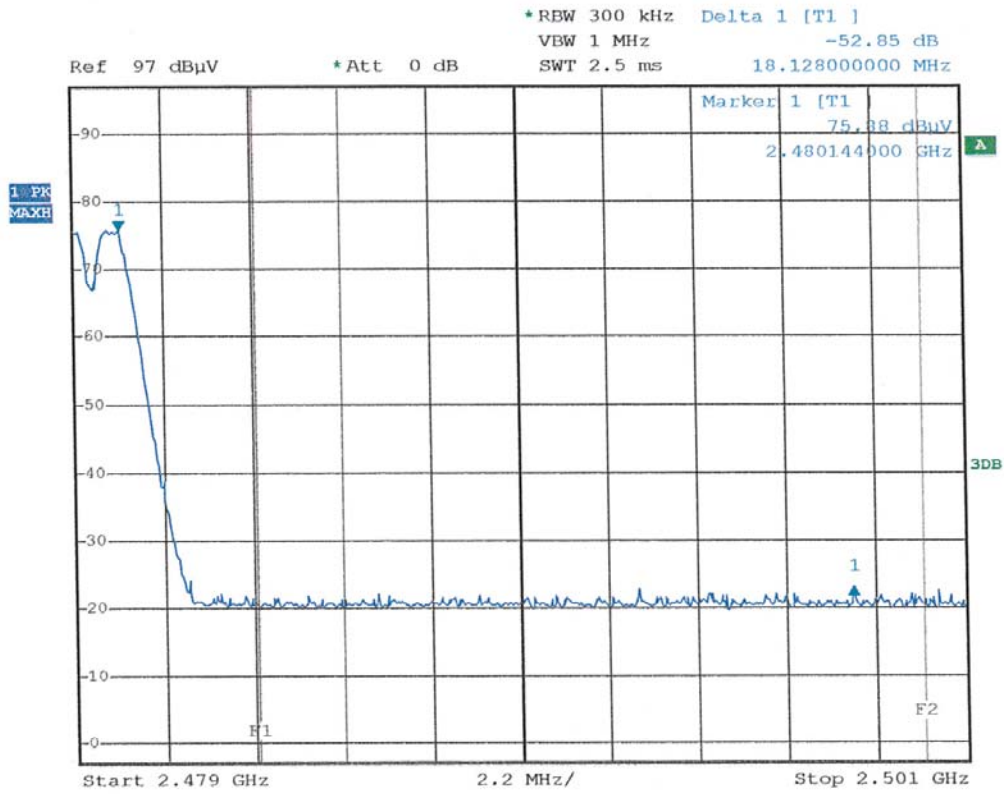
CURVE N°: 1.



223

Date: 6.JUN.2009 10:31:14

CURVE N°: 2.

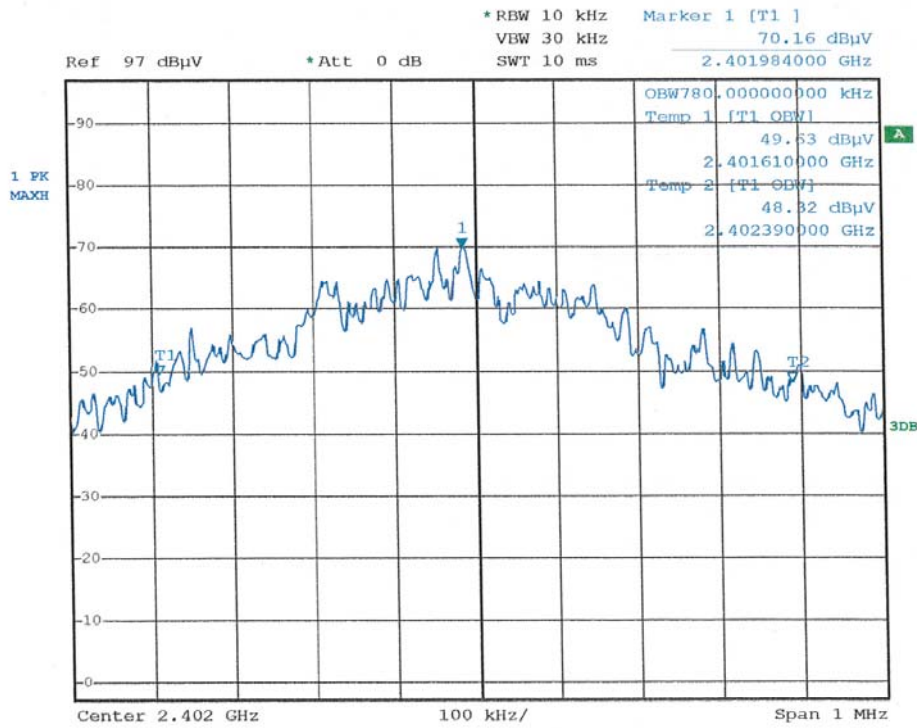


223

Date: 6.JUN.2009 10:34:57

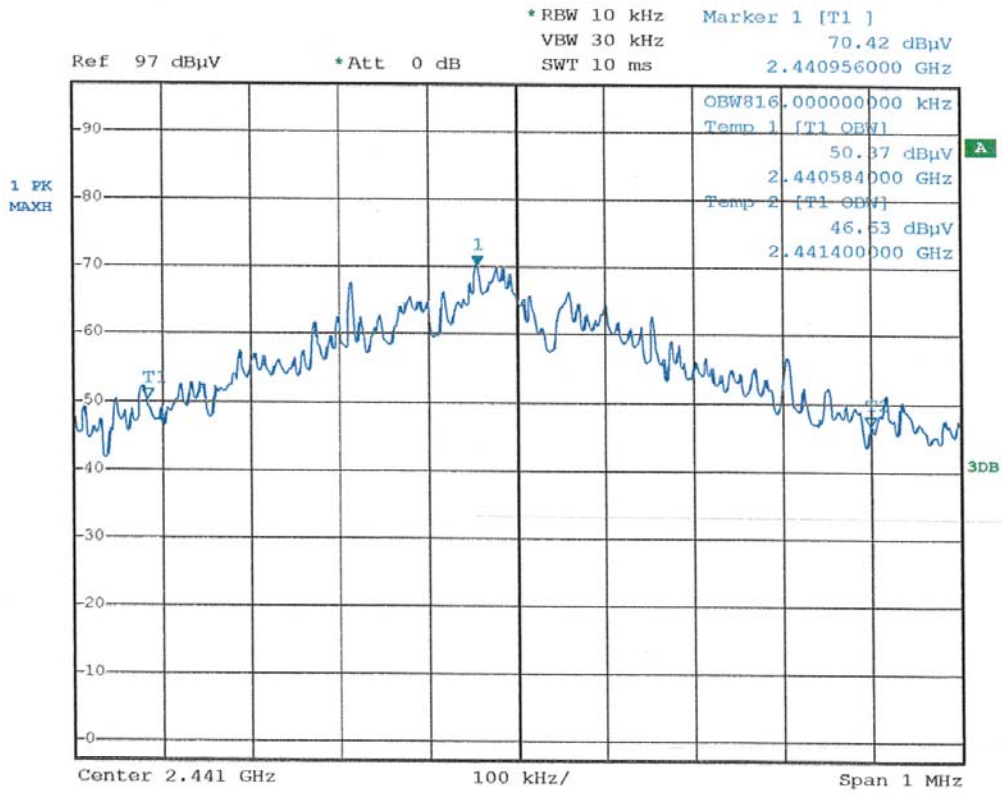
□□□ End of report, 5 annexes to be forwarded □□□

ANNEX 1: OCCUPIED POWER BANDWIDTH AND CHANNEL SEPARATION



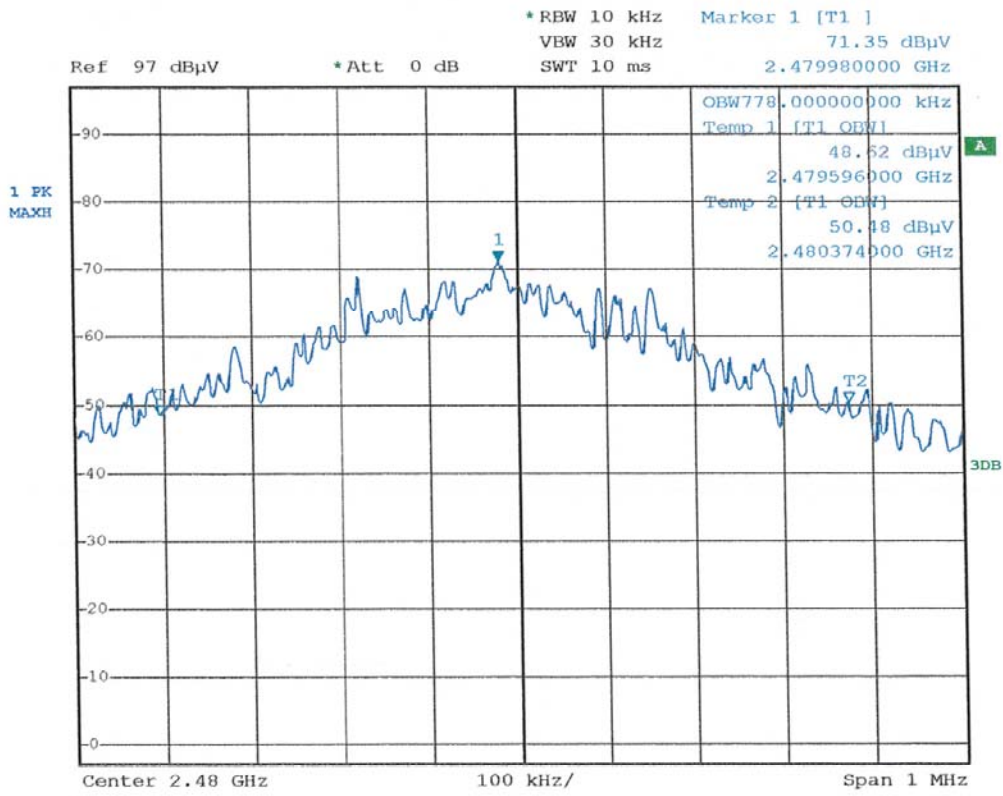
223

Date: 6.JUN.2009 08:46:31



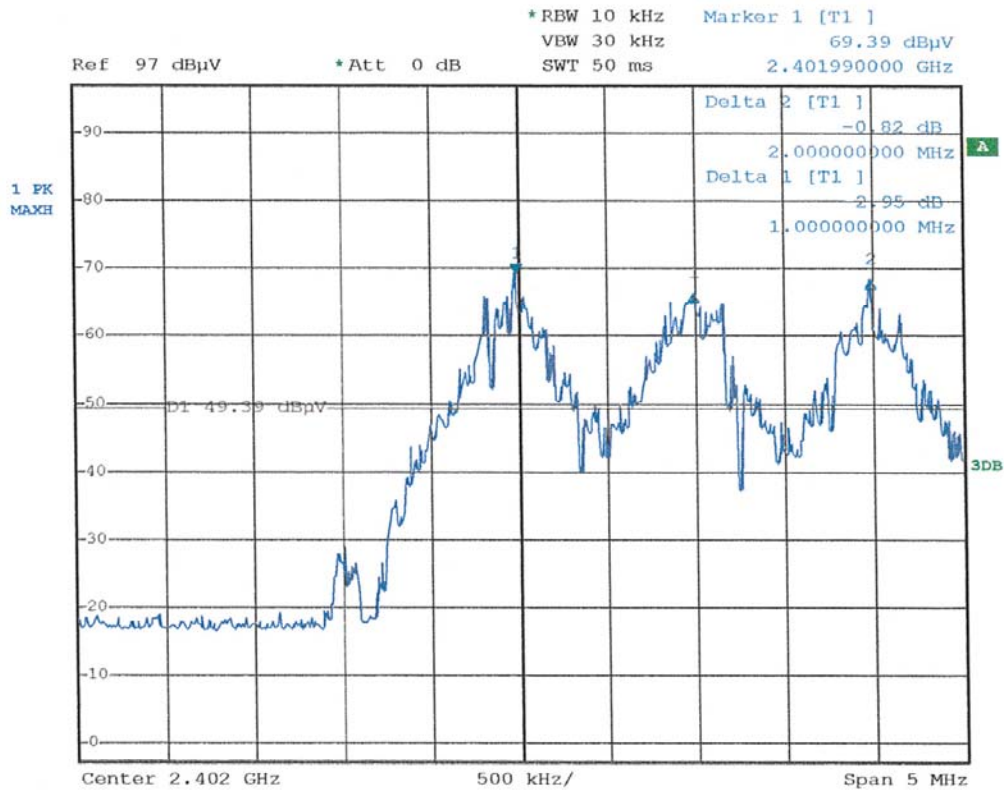
223

Date: 6.JUN.2009 08:57:09



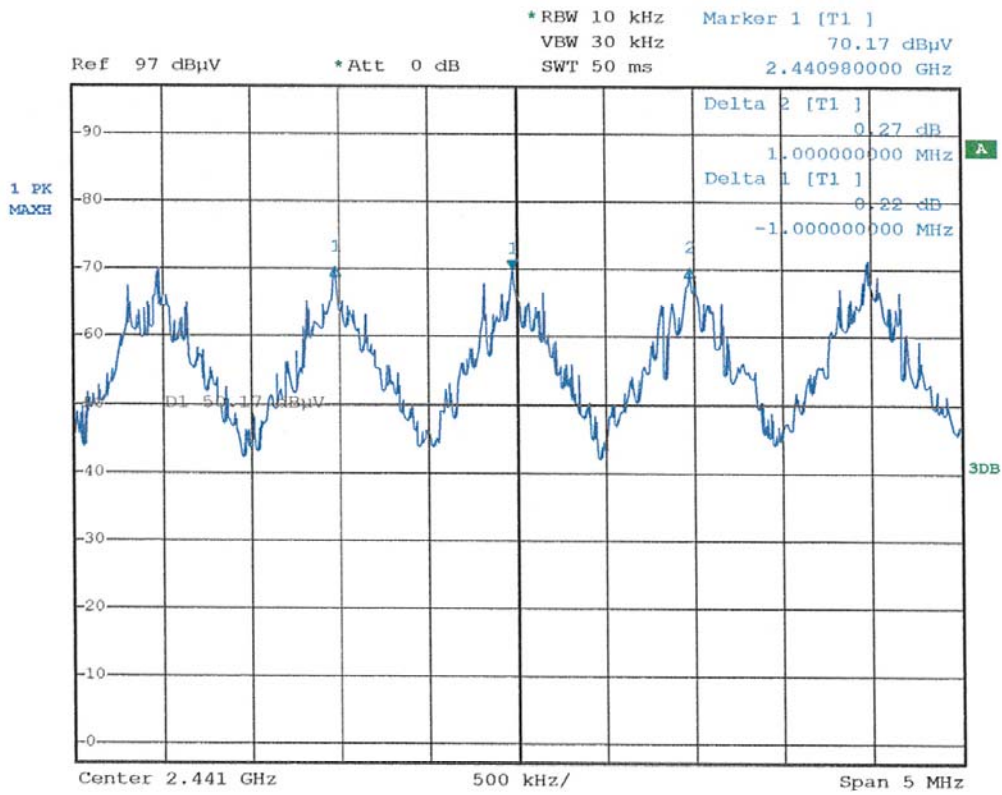
223

Date: 6.JUN.2009 09:02:24



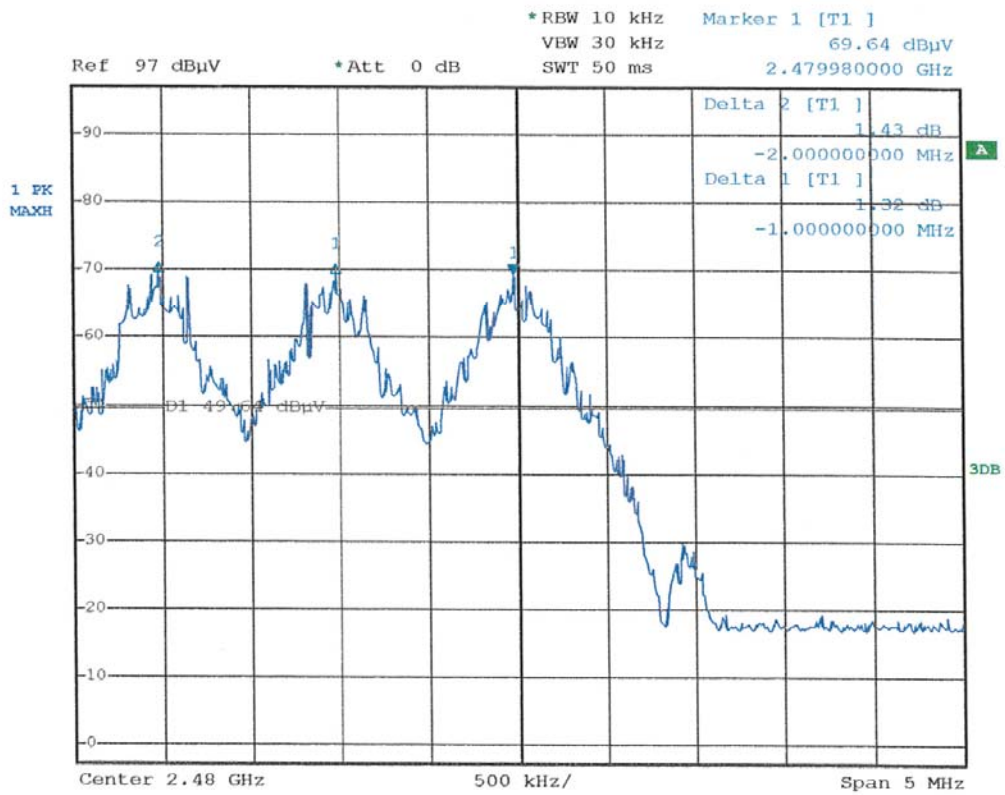
223

Date: 6.JUN.2009 09:08:34



223

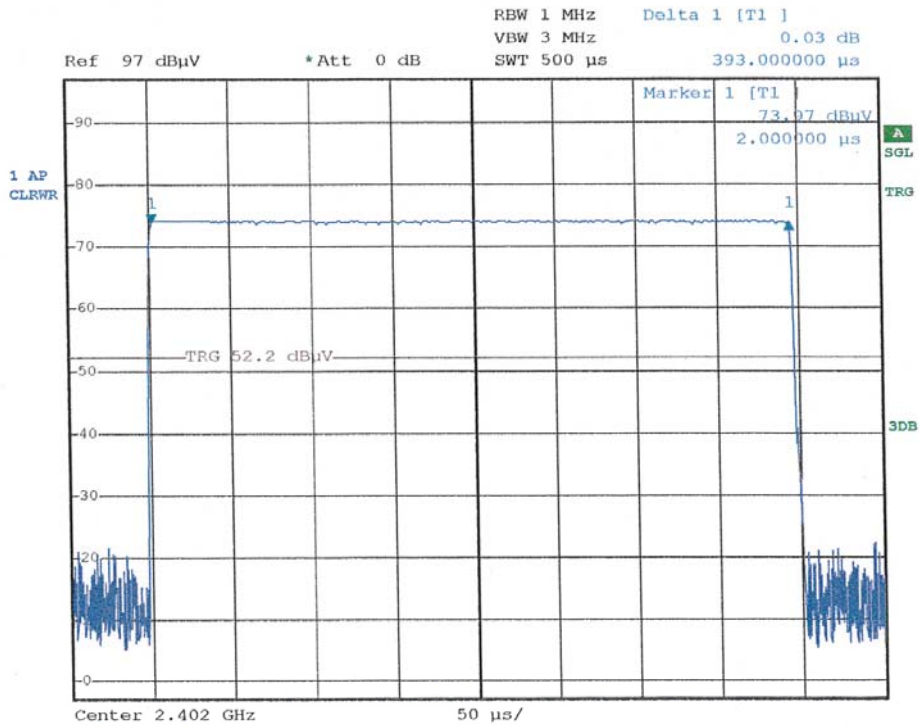
Date: 6.JUN.2009 09:15:03



223

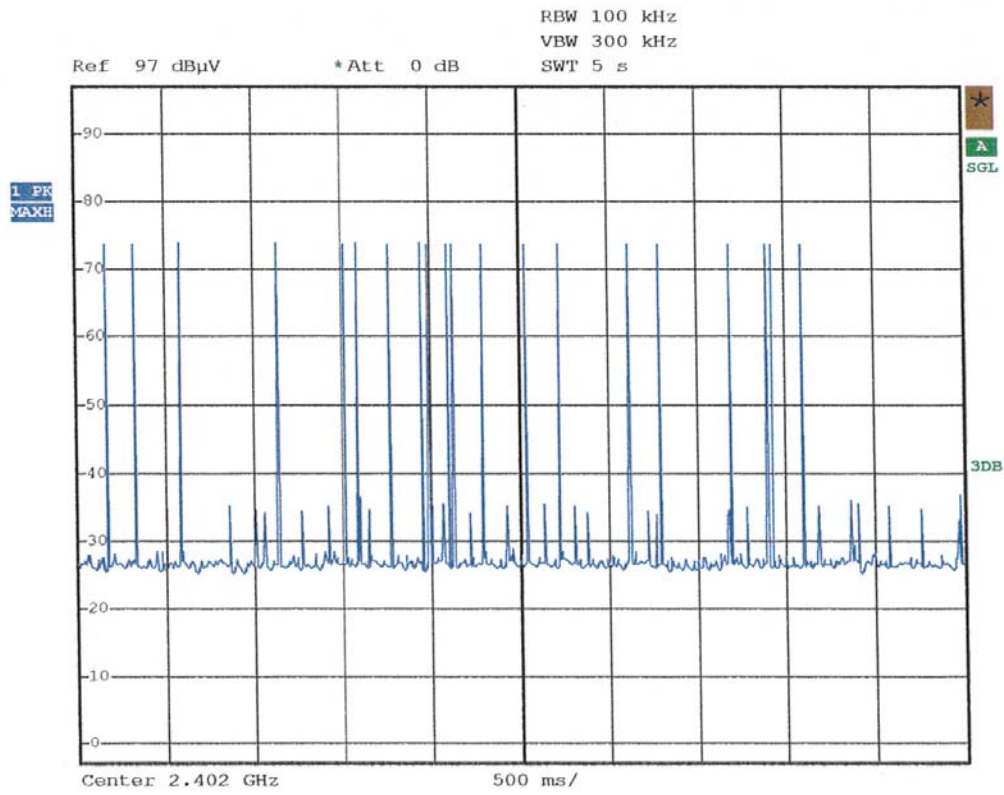
Date: 6.JUN.2009 09:26:15

ANNEX 2: AVERAGE TIME OF OCCUPANCY ON ANY FREQUENCY



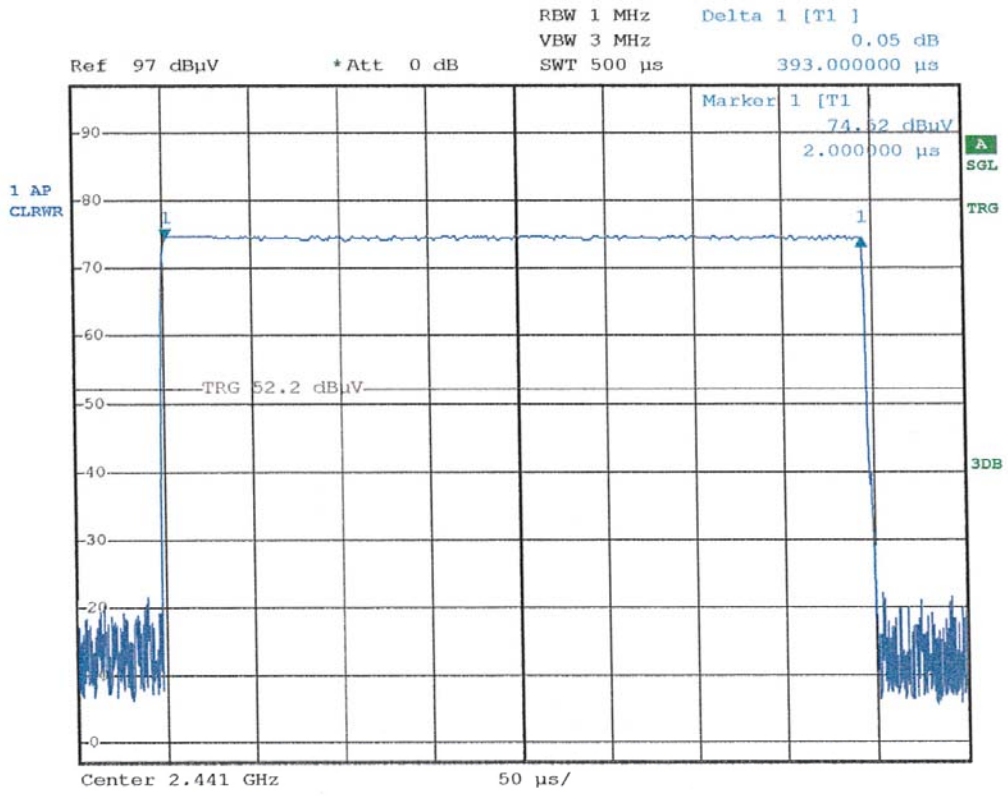
223

Date: 6.JUN.2009 09:29:12



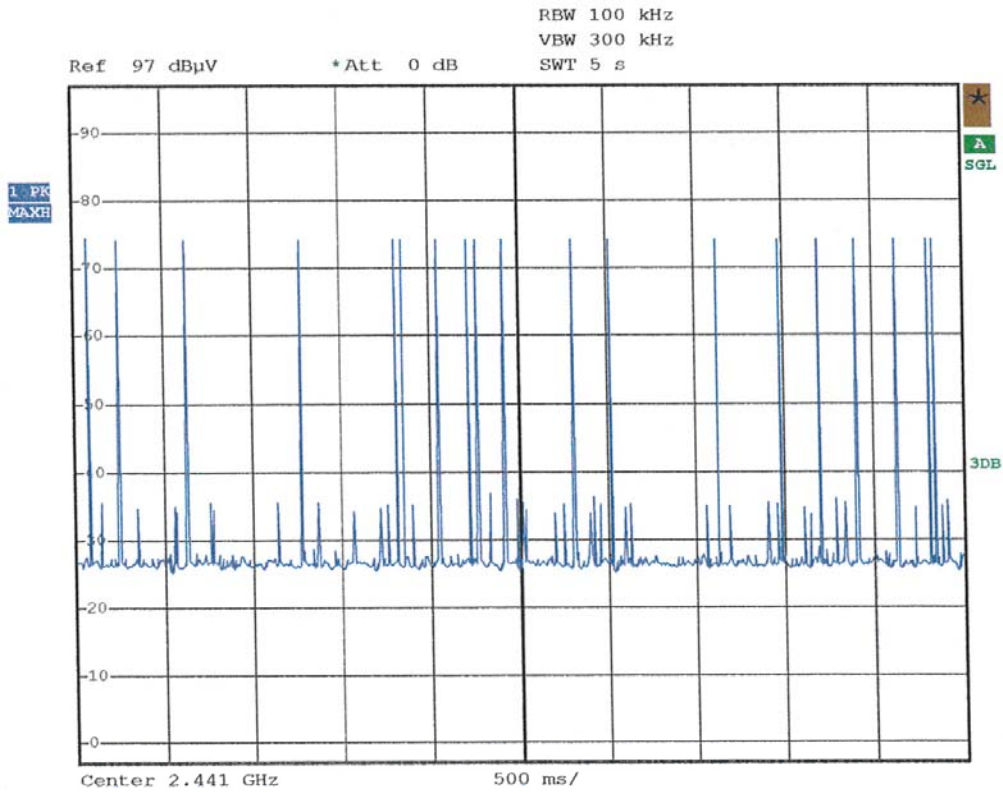
223

Date: 6.JUN.2009 09:44:04



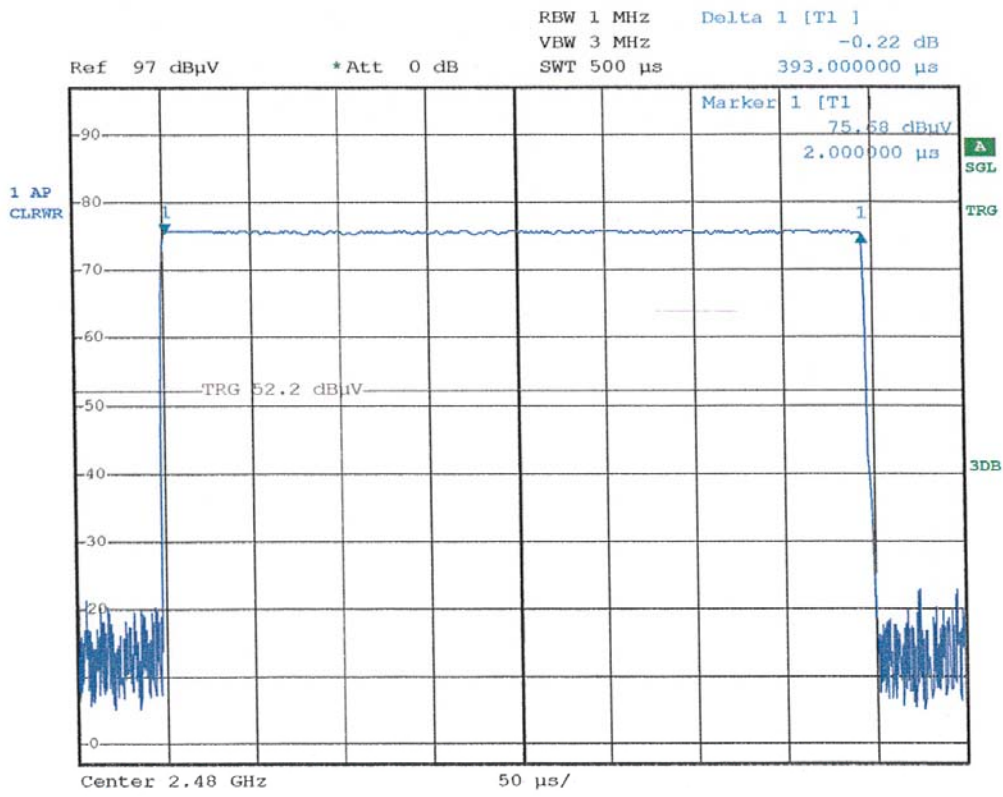
223

Date: 6.JUN.2009 09:31:36



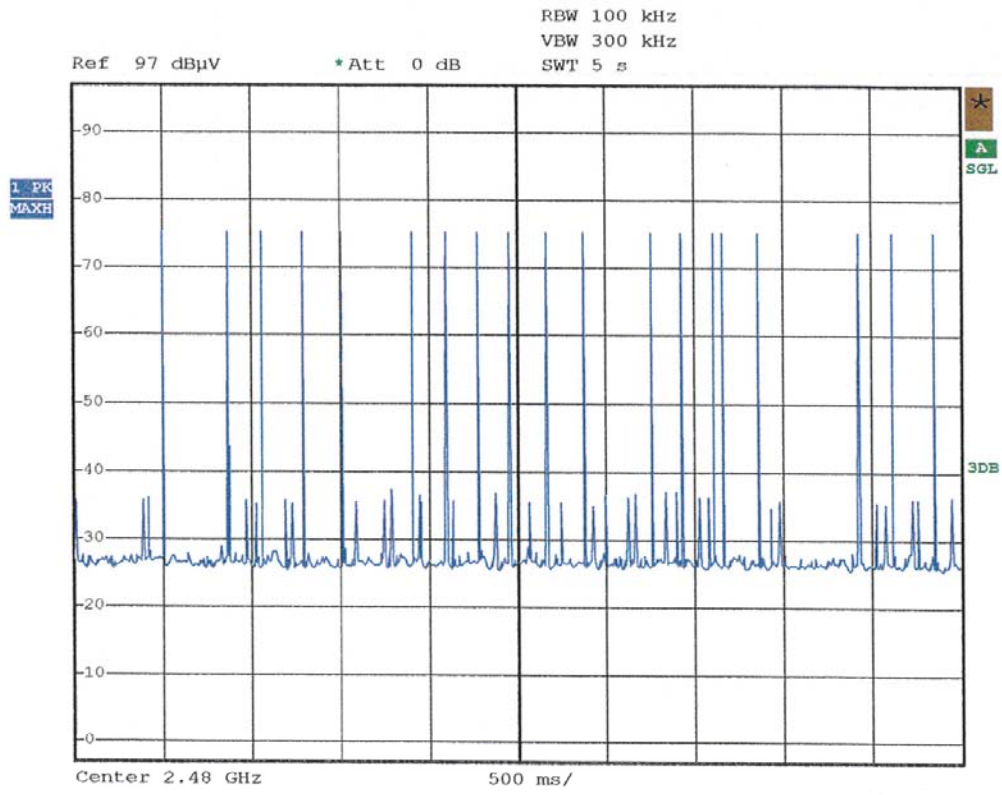
223

Date: 6.JUN.2009 09:48:10



223

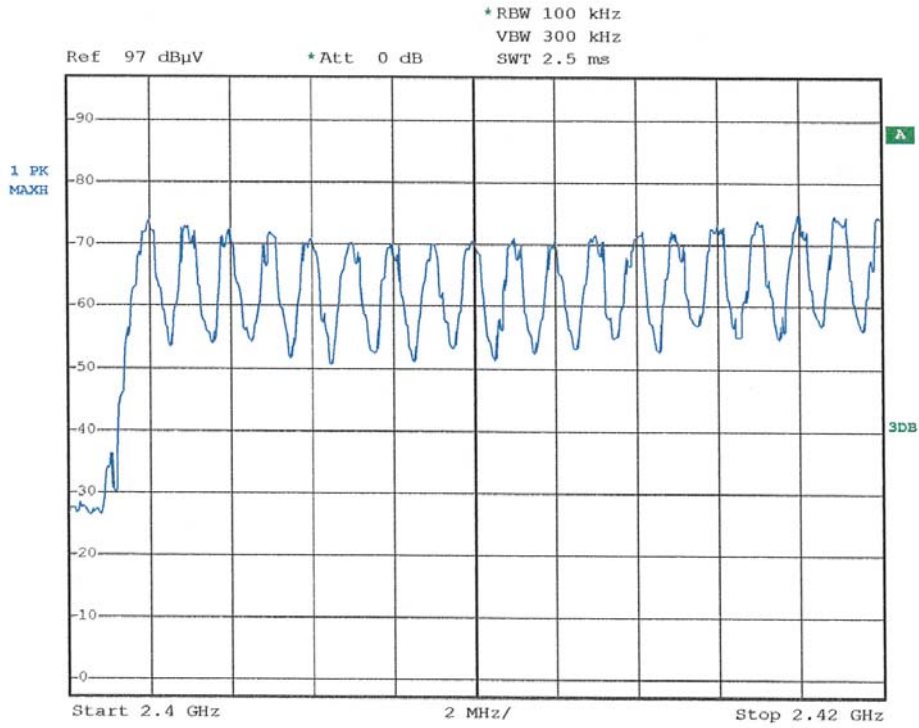
Date: 6.JUN.2009 09:33:30



223

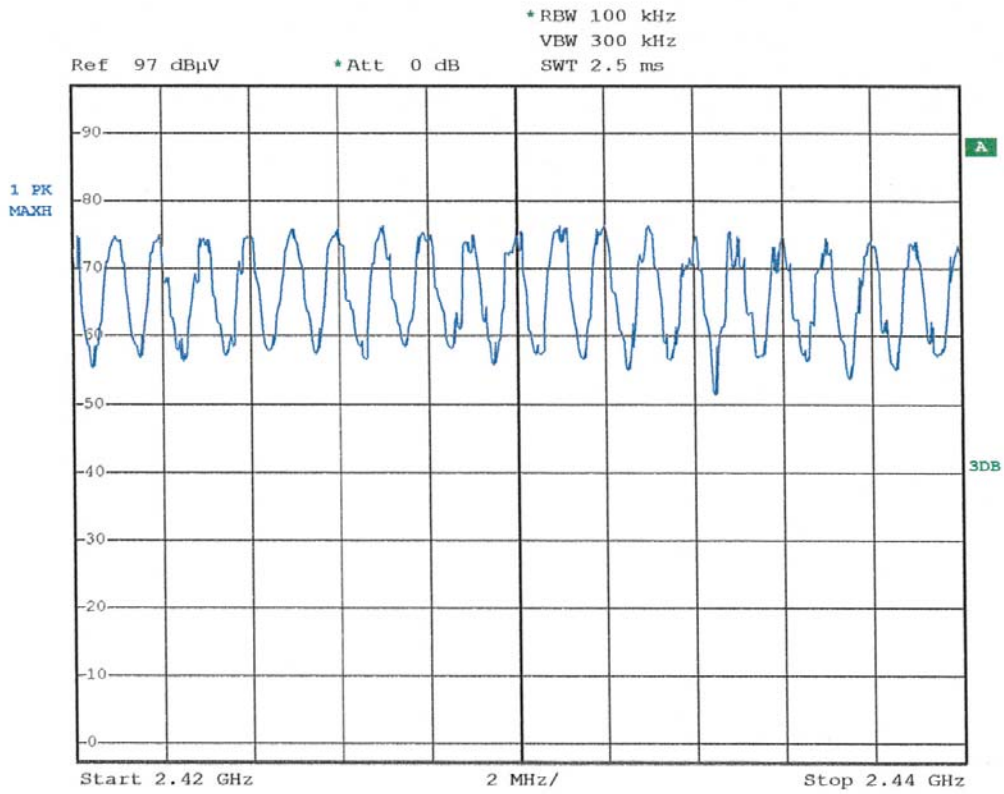
Date: 6.JUN.2009 09:52:07

ANNEX 3: NUMBER OF HOPPING FREQUENCIES



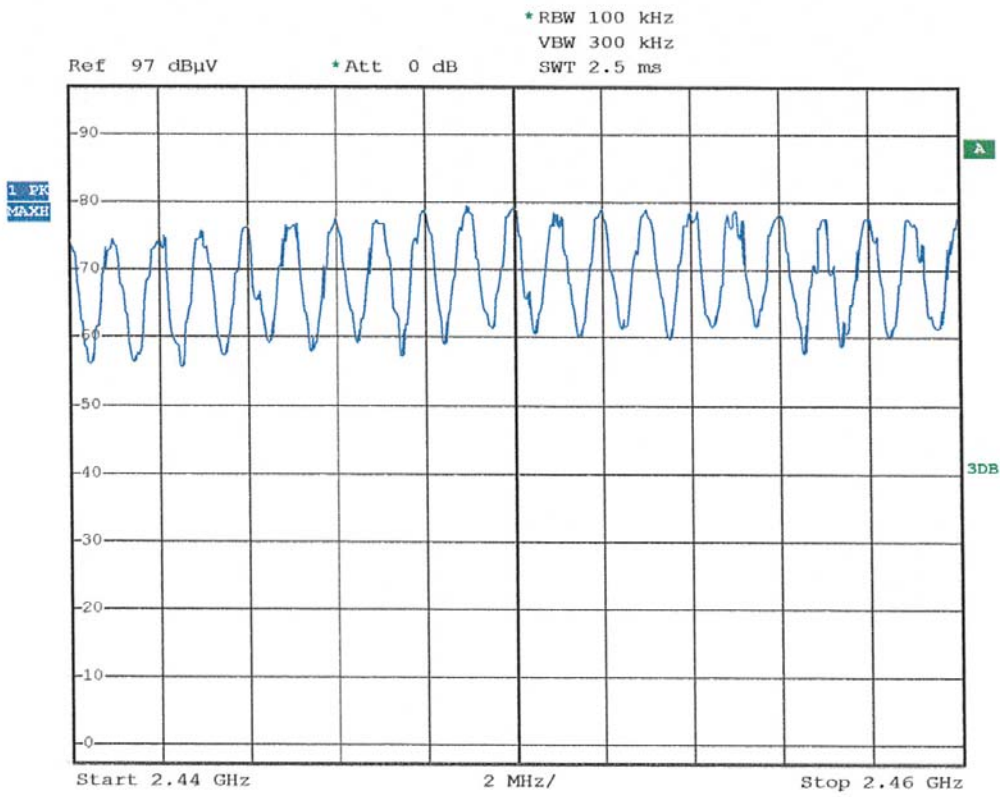
223

Date: 6.JUN.2009 09:57:46



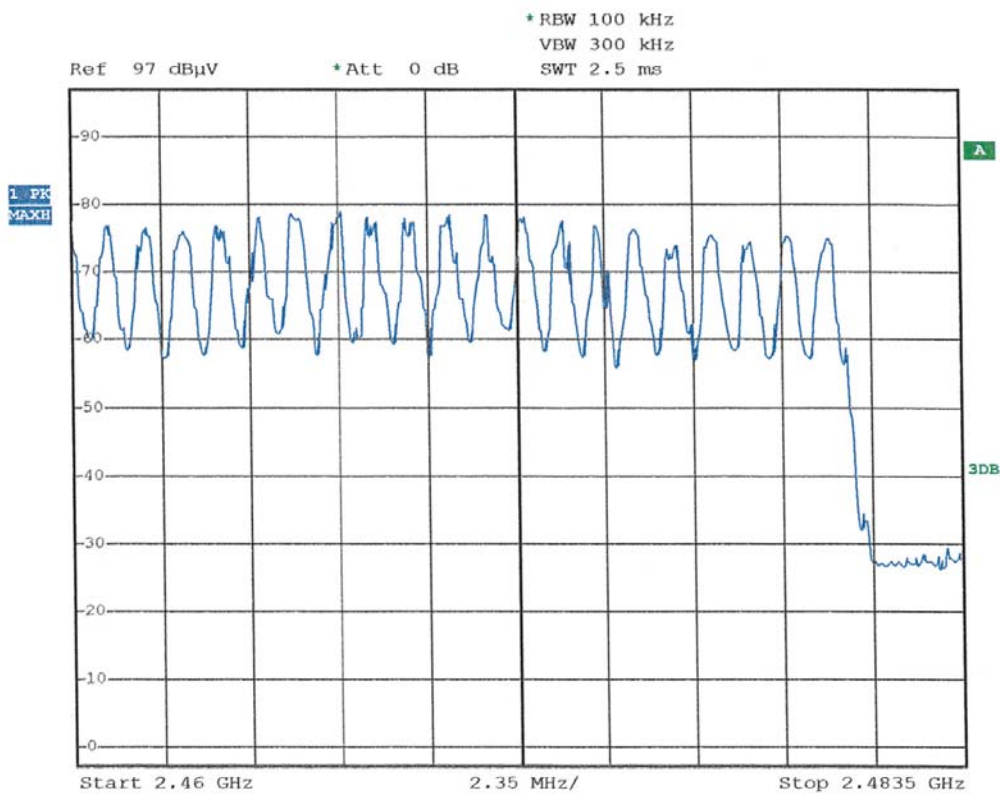
223

Date: 6.JUN.2009 10:01:00



223

Date: 6.JUN.2009 10:04:44



223

Date: 6.JUN.2009 10:08:18

ANNEX 4: PHOTOS OF THE EQUIPMENT UNDER TEST

GENERAL VIEW

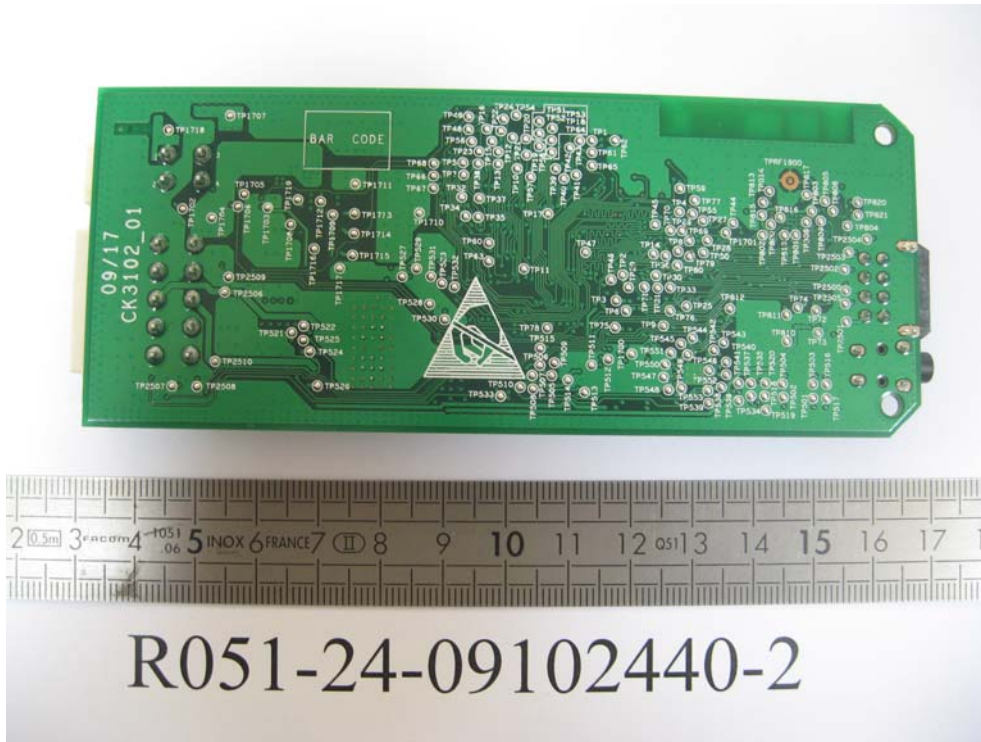




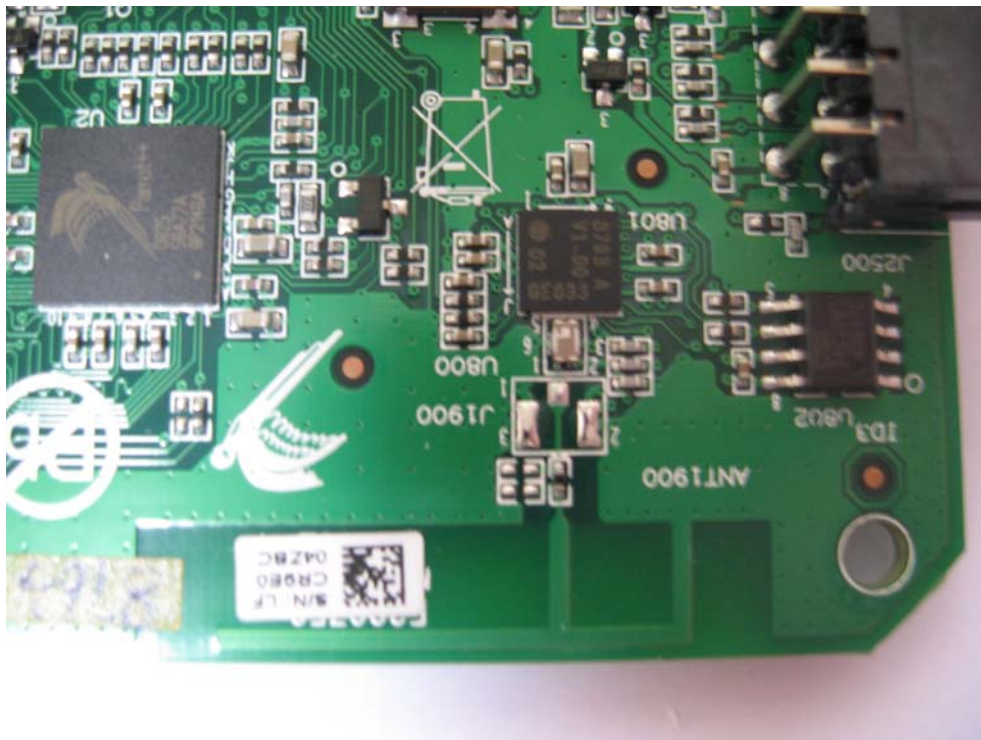
Printed circuit board: face 1



Printed circuit board: face 2



Radio module with antenna



ANNEX 5: TEST SET UP AND OPEN AREA TEST SITE



