



TEST REPORT

**According to FCC, CFR 47 Part 15
And Industry Canada
According to RSS 210 Issue 7**

**DEUS
Remote control
XPIHM**

N°560102-CC-1-b

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OTHER ASSOCIATED FILES:

- 560102 Exhibit 1 ID label XFJIHM
- 560102 Exhibit 3 External Photos XFJIHM
- 560102 Exhibit 4 Block Diagrams XFJIHM
- 560102 Exhibit 5 Schematics XFJIHM
- 560102 Exhibit 7 Test Setup Photos XFJIHM
- 560102 Exhibit 8 User's Manual XFJIHM
- 560102 Exhibit 9 Internal Photos XFJIHM
- 560102 Exhibit 12 operational description XFJIHM



1. Reference and record of revisions of the test report:

Test report number :	Revision :	Number of pages	Modification reasons :
560101-CC-1-a	a	23	creation
560101-CC-1-b	b	27	Addition of conducted emission
Redactor : O.ROY		Date of writing : 26 March 2010	
Technical control: O. ROY 		Quality Control: M. CABALLERO 	

1 Interpretation and remarks:

1.1 RESULTS:

This equipment complies with the rules of the FCC section 15.249 and related sections.

This equipment complies with the rules of the FCC section 15.205, 15.207, 15.209 and related sections concerning its intentional radiator functions.

This equipment complies with the rules of the FCC section 15.107, 15.109 and related sections concerning its non intentional radiator functions.

This equipment complies with the rules of the RSS-210 Issue 7 Appendix 2.9



FCC and IC CERTIFICATION TEST REPORT
EQUIPMENT FCC ID:XFJIHM
IC:8392A-XPIHM
The 27 pages of this report are not sharable

4
Identification : 560102-CC-1-b
FCC registration n°90469
IC registration n°IC4452A-1

2 GENERAL INFORMATION:

2.1 APPLICANT:

Xplorer
40, chemin du moulin
31320 MERVILLA
France

2.2 MANUFACTURER:

Xplorer
40, chemin du moulin
31320 MERVILLA
France

2.3 TEST DATE:

December 22, 2008 – January 7, 12, 22, 29 and May 28, 2009

2.4 TEST SITE:

GYL Technologies
Parc d'activités de Lanserre
49610 Juigné sur Loire – France
FCC registration Number: 90469
IC registration Number: IC 4452A-1



3 INTRODUCTION:

The following test report for equipments with RF part is written in accordance with Part 15 of the Federal Communications Commissions and RSS 210 of Industry Canada. The Equipment Under Test (EUT) was a metal detector composed of the following elements:

- Remote control (object of this report)
- Search coil (see FCC ID: XFJ225)
- Head phone (see FCC ID: XFJBKF)

The test results reported in this document relate only to the items that were tested.

All measurements contained in this Application were conducted in accordance with ANSI C63.4 Methods of Measurement of Radio Noise Emissions of 2003. The instrumentation utilized for the measurements conforms to the ANSI C63.4 standard for EMI and Field Strength Instrumentation. Some accessories are used to increase sensitivity and prevent overloading of the measuring instrument. These are explained in this report. Calibration checks are performed regularly on the instruments, and all accessories including the high pass filter, preamplifier and cables.

All conducted and radiated emissions measurements were performed manually at GYL TECHNOLOGIES. The radiated emissions measurements required by the rules were performed on the three to ten meters, open field, test site maintained by GYL Technologies Parc d'activités de Lanserre, 49610 Juigné sur Loire , France. Complete description and site attenuation measurement data have been placed on file with the Federal Communications Commission.

4 MEASUREMENT EQUIPMENT LIST:

PART TYPE	MANUFACTURER	MODEL	GYL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
RECEIVERS					
Receiver	Rohde & Schwarz	ESI 7	M02020	May-08 May-09	May-09 May-10
Spectrum analyzer	Rohde & Schwarz	FSEM 30	M02021	May-08 May-09	May-09 May-10
Filter 150 kHz	Rohde & Schwarz	EZ25	M02040	May-08 May-09	May-09 May-10
ARTIFICIAL MAINS NETWORKS					
LISN (50µH / 5/50Ω)	Rohde & Schwarz	ESH3-Z5	M02027	Jan-08 - Jan-09 -10	Jan-09 Jan-10 Jan-11
ANTENNAS					
Bilog (30-2000MHz)	CHASE	CBL-6112	M02031	June-08 June-09	June-09 June-10
Bilog (30-2000MHz)	CHASE	CBL-6112	M02032	June-08 June-09	June-09 June-10
Horn antenna	EMCO	3115	M02045	March-08 March-09	March-09 March-10
Horn antenna	EMCO	3160-09	M04002		
Active loop antenna	Rohde & Schwarz	HFH2-Z2	M01128	April-08 April-09	April-08 April-09
AMPLIFIERS					
Amplifier 0.5-18GHz	LUCIX Corporation	S005180L3201	M08007	April-08 April-09	April-09 April-10
Amplifier 18.5-26.5GHz	LUCIX Corporation	S180L3201	M08008	March-08 March-09	March-09 March -10

All equipments where within their calibration period when used



5 CONFIGURATION OF TESTED SYSTEM:

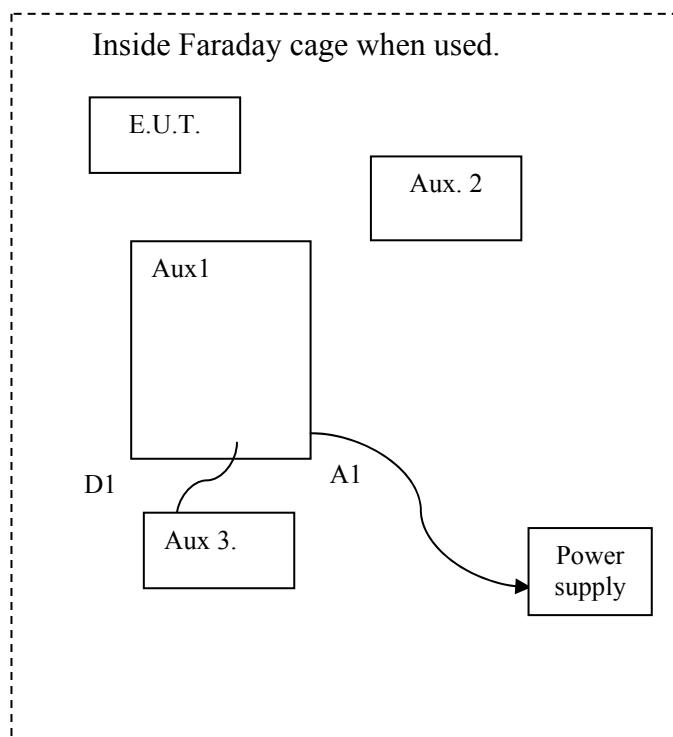
For the measurements, according to FCC part 15 (Sub part B) §15.107, 15.207 and 15.109, 15.209 test plan, the equipments under test were tested with their ancillary equipments.

E.U.T.: Equipment Under Test.

A1: Power cord of Laptop with AC adapter
D1: USB cable

Aux1: Laptop with its AC adapter
Aux 2: Headphone
Aux 3: Search coil

Configuration 1

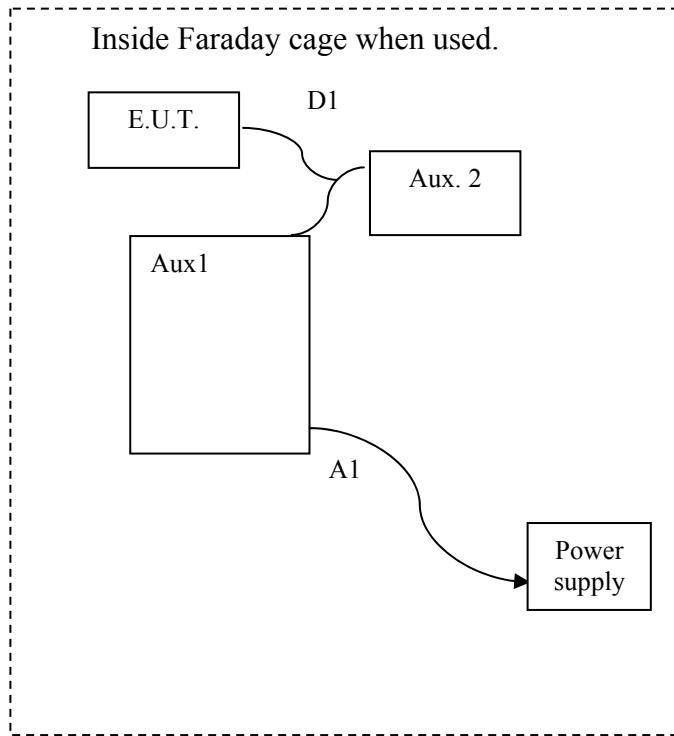


Configuration 2





Configuration 3



6 EXERCISING TEST CONDITIONS:

New battery/fully charged battery was used during the test.

- Operating conditions in configuration 1 :

Search coil connected to the Ac adapter for charging
Remote control N°1 and Headphone activated
Sensor head activated with Aux2

Configuration 1 used for complementary radiated emission from 30MHz to 1GHz.

- Operating conditions in configuration 2:

Used for radio emissions

Measurements have been carried out, successively, in low, middle and high channel with modulation.
Type of modulation: GFSK without hopping.
All tests have been carried out at maximum power.
Operating frequencies: 2404 – 2476MHz

- Operating conditions in configuration 3:

Used for computer peripheral measurement.
Headphone and remote control charging through an usb cable connected to the computer.



7 CONFORMANCE STATEMENT:

7.1 STANDARDS REFERENCED FOR THIS REPORT:

PART 2: 2004	Frequency allocations and Radio Treaty Matters General Rules and Regulations
PART 15: 2008	Radio frequency devices
ANSI C63.4-2003	Standard format measurements/technical report personal computer and peripherals
RSS-Gen Issue 2	Radio frequency devices General Rules and Regulations
RSS-210 Issue 7	Radio frequency devices

7.2 JUSTIFICATION:

The equipments tested are information technology equipment with radio part. They can be used in residential commercial or light industry areas.

The following sub clauses of the standard mentioned above are:

- Part 15.249 for intentional radiator in band 2400-2483.5MHz.
- Part 15.207 and 15.209 (subpart C) for respectively conducted and radiated emission for intentional radiator.
- RSS-210 Issue 7 Appendix 2.9 for intentional radiator in band 2400-2483.5MHz
- Part 15.205 for restricted bands of operation.
- Part 15.107 and 15.109 (subpart B) for respectively conducted and radiated emission for unintentional radiator (Charger) Class B.



8 TEST ACCORDING TO CFR 47 Part 15

8.1 REFERENCE DOCUMENTATION:

FCC part 15 :15.107, 15.109 15.205, 15.207, 15.209 and 15.249 of 2008.

8.2 POWER LINE CONDUCTED EMISSIONS MEASUREMENTS (15.107&207):

The power line conducted emission measurements were performed in a semi anechoic chamber.

The EUT were placed on a non conductive 80 centimeters high wooden table.

The EUT which can be powered were supplied through a $50\Omega/50\mu\text{H}$ Line Impedance Stabilization Network (EUT's LISN).

The EUT's LISN was supplied with A.C. filters placed on the outside wall of the shielded enclosure.

The filters and the EUT's LISN housing are bonded to the ground plane of the shielded enclosure.

The spectrum analyzer was connected to the A.C. line through an isolation transformer.

The 50Ω output of the EUT's LISN was connected to the spectrum analyzer input through a Rohde & Schwartz 150 kHz high-pass filter.

The filter is used to prevent overload of the spectrum analyzer from noise below 150 kHz.

Conducted emission levels were measured on each current-carrying line with the receiver operating in the CISPR quasi-peak mode (or average mode if applicable).

8.2.1 RESULTS (Class B):

The initial conducted emissions measurements consists of a prescan (tester in receiver mode), in order to determine the maximum quasi peak and average values.

- If the conducted emissions have limits showing a margin lower than 5dB, data collection measurement is performed on the six (6) highest frequencies to determine the compliance of the EUT.
- If the conducted emissions have limits showing a margin greater than 5dB, data collection measurement is not performed and the curves are given as evidence of compliance.

The following table lists worst-case conducted emission data. Specifically: emission frequency, measurement level (including cable loss and transducer factors) in quasi-peak and average mode and margin.

The conducted tests were performed with the EUT running program loaded, and the emissions were carried out between 150 kHz to 30 MHz on the NEUTRAL SIDE and LIVE SIDE, herein referred to as Neutral, and Live respectively.

ESI 7 EMI TEST RECEIVER IN RECEIVER MODE	
Peak measurement time	5 ms
step size	4kHz
Preamplifier	OFF
Preselector	ON
Resolution bandwidth	9 kHz
Final Quasi Peak measurement time	1 s minimum
Final average measurement time	1 s minimum

All readings are quasi-peak unless stated otherwise.



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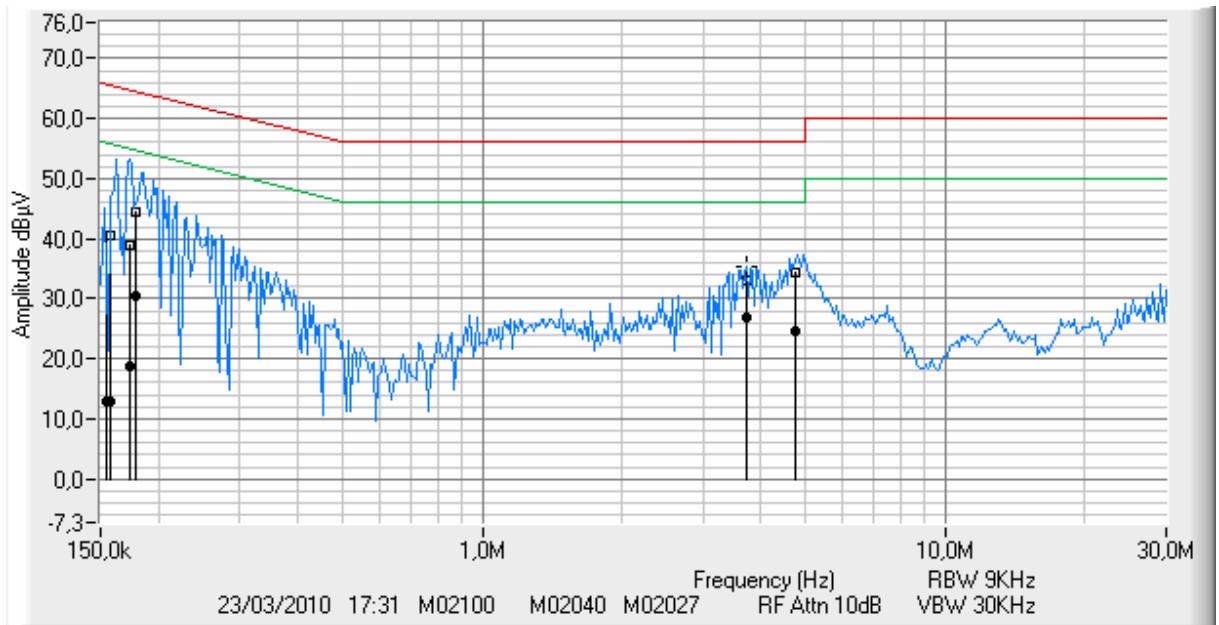
Power supply of laptop (120V 60Hz) configuration 3

Tests performed by Aziz ABBASSI at GYL Technologies laboratories on March 23, 2010.

• **Neutral:**

Frequency (MHz)	Quasi-peak (dB μ V)	QP Limit (dB μ V)	QP margin (dB)	Frequency (MHz)	Average (dB μ V)	Average Limit (dB μ V)	Average margin (dB)
0,155	40,46	65,73	25,27	0,155	12,89	55,73	42,84
0,157	40,69	65,62	24,93	0,157	12,98	55,62	42,64
0,173	38,92	64,82	25,89	0,173	18,85	54,82	35,96
0,179	44,31	64,53	20,23	0,179	30,47	54,53	24,06
3,719	33,22	56,0	22,78	3,719	26,89	46,0	19,11
4,755	34,3	56,0	21,70	4,755	24,69	46,0	21,31

Legend: blue curve represents the peak values

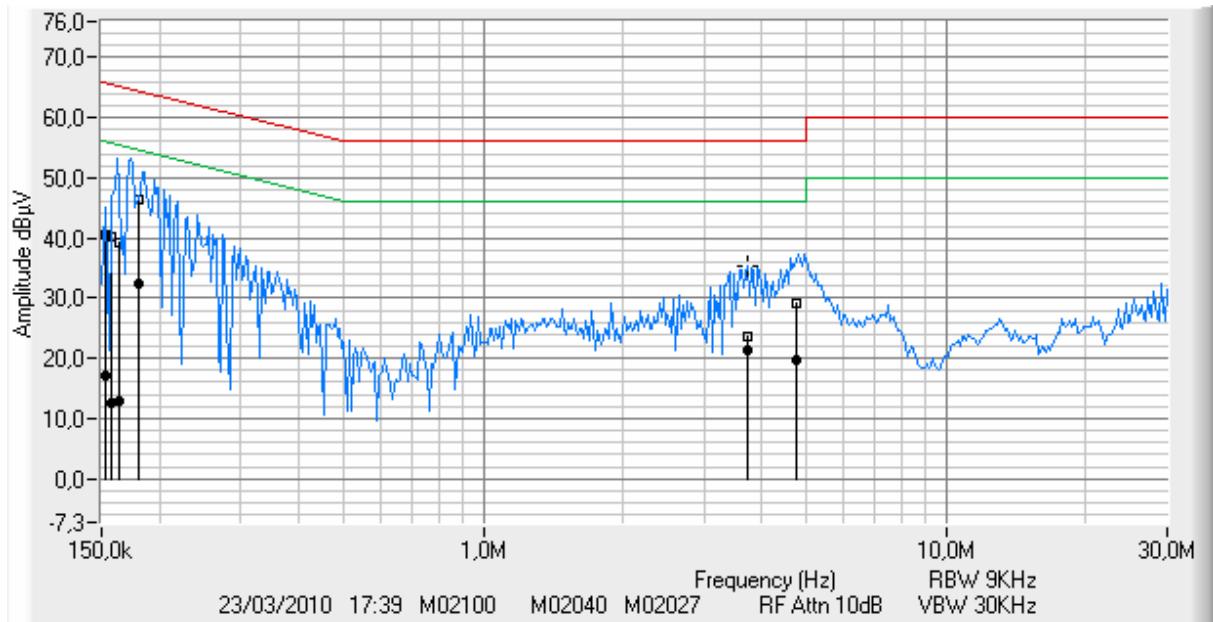




• **LIVE:**

Frequency (MHz)	Quasi-peak (dB μ V)	QP Limit (dB μ V)	QP margin (dB)
0,153	40,52	65,84	25,31
0,157	40,16	65,62	25,46
0,164	39,15	65,26	26,10
0,181	46,47	64,44	17,97
3,713	23,57	56,00	32,43
4,757	29,22	56,00	26,78

Frequency (MHz)	Average (dB μ V)	Average Limit (dB μ V)	Average margin (dB)
0,153	17,21	55,84	38,63
0,157	12,52	55,62	43,10
0,164	12,91	55,26	42,35
0,181	32,44	54,44	22,00
3,713	21,47	46,00	24,53
4,757	19,68	46,00	26,32



8.2.2 INTERPRETATION AND REMARKS:

The equipments comply with the §15.107 requirements, class B.



8.3 RADIATED EMISSIONS MEASUREMENTS (15.109&209):

Measurements below 1GHz

Before final radiated emissions measurements which are on the open-field three/ten meters range, the EUT was pre-scanned in the semi anechoic at one meter distance. This was done in order to determine its emissions spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to insure that maximum emission amplitudes were attained. Final radiated emissions measurements were carried out on the three/ten-meters, open-field test site. The EUT was placed on an insulating support (wooden table) of 0.8m high above a conductive turntable (the turntable was grounded)

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters in order to determine the maximum emission levels.

Measurements were obtained using both horizontal and vertical antenna polarizations.

The spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. No video filter less than 10 times the resolution bandwidth was used. The range of the frequency spectrum to be investigated is specified in FCC Part 15. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

Summary of settings

ESI 7 EMI TEST RECEIVER IN RECEIVER MODE	
Peak measurement time	5 ms
step size	40 kHz
Preamplifier	ON
Preselector	ON
Resolution bandwidth	120 kHz
Final Quasi Peak measurement time	1 s minimum
Final average measurement time	1 s minimum

All readings are quasi-peak unless stated otherwise.



8.3.1 RESULTS (Class B):

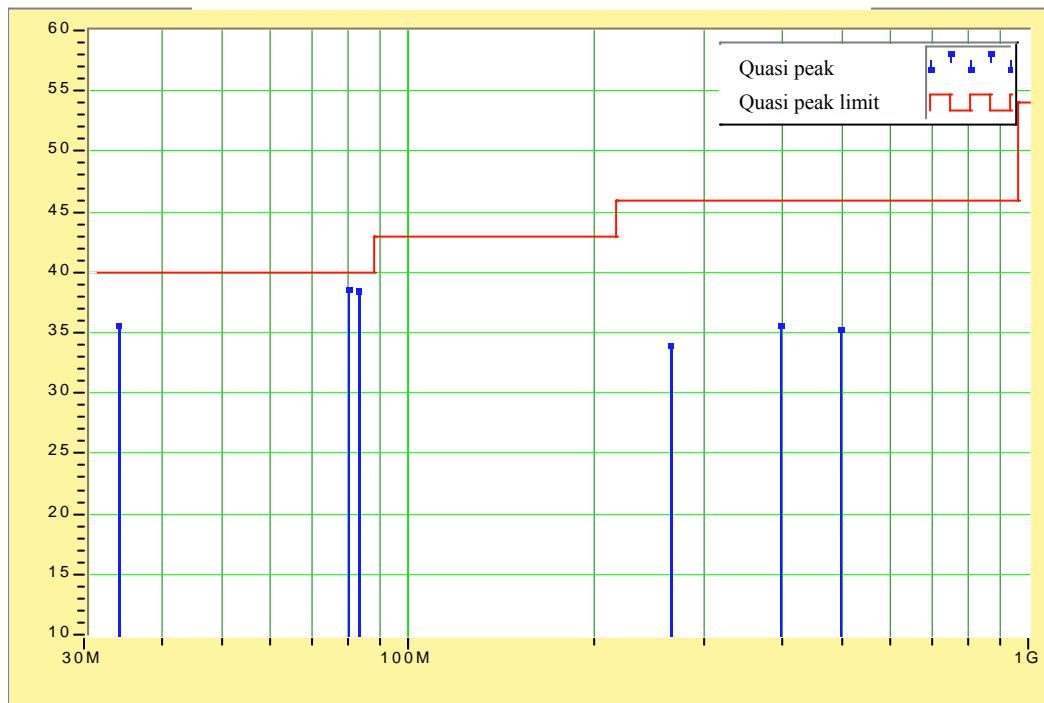
With configuration 1

The following data table lists the most significant emission frequencies, measured level, correction factor (includes cable and antenna corrections), corrected reading and the limit.

The highest peaks are measured in quasi-peak detection mode at 3 meters distance.

Frequency in MHz	Peak Value in dB μ V/m	Quasi-Peak Value in dB μ V/m	Quasi-Peak Limit in dB μ V/m	Margin in dB	Pol	Height in cm	Angles °	Correction Factors in dB	Comments
33,940	38,2	35,7	40,0	4,3	V	105	100	16,8	
79,745	41,0	38,6	40,0	1,4	V	147	358	10,2	
83,133	40,7	38,5	40,0	1,5	V	157	358	10,6	
264,960	37,5	34,0	46,0	12,0	H	103	24	17,2	
397,644	41,6	35,7	46,0	10,3	H	102	61	19,9	
496,783	39,5	35,3	46,0	10,8	V	188	2	22,0	

Electrical field (dB(μ V/m))



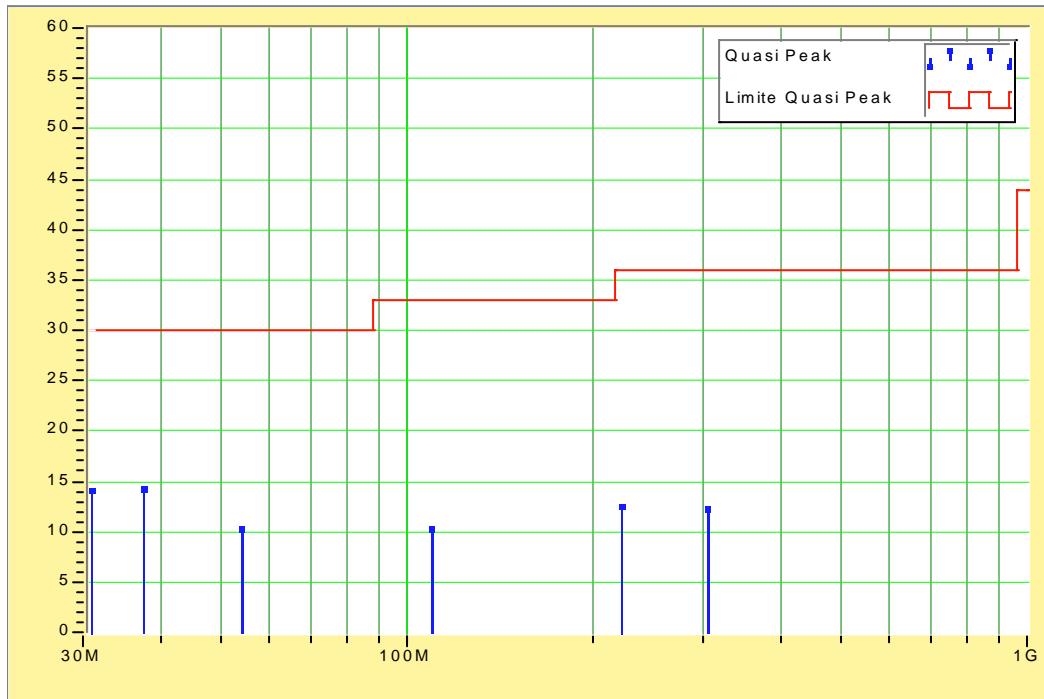


With configuration 3

The following data table lists the most significant emission frequencies, measured level, correction factor (includes cable and antenna corrections), corrected reading and the limit. The highest peaks are measured in quasi-peak detection mode at 10 meters distance.

Frequency in MHz	Peak Value in dB μ V/m	Quasi-Peak Value in dB μ V/m	Quasi-Peak Limit in dB μ V/m	Margin in dB	Pol	Height in cm	Correction Factors in dB
30,833	18,8	14,1	30,0	15,9	H	121	18,9
37,448	25,5	14,4	30,0	15,7	V	104	16,2
53,757	22,9	10,4	30,0	19,7	V	104	9,0
109,312	15,3	10,3	33,0	22,8	V	103	14,5
220,725	17,9	12,5	36,0	23,5	V	114	13,2
304,685	18,2	12,3	36,0	23,7	V	311	16,8

Champ électrique (dB μ V/m) rayonné en fonction de la fréquence (Hz)



8.3.2 INTERPRETATION AND REMARKS:

The equipments comply with the §15.109 and §15.209 requirements, class B.



8.4 INTENTIONAL RADIATOR OPERATION WITHIN THE BAND 2400 – 2483.5MHz §15.249:

Since this is handheld device, the 3-axes of the device have been evaluated and the worst case data are presented.

8.4.1 MAXIMUM PEAK OUTPUT POWER §15.249(a) (c)

The spectrum analyzer settings were the following:

- Resolution bandwidth: greater than the 20dB bandwidth
- Video bandwidth greater than the resolution bandwidth
- Sweep time: 250ms
- Detector mode: peak
- Span: \geq three times the 20dB bandwidth
- Trace: max hold

Distance of measurement: 3m

The limit level applied shall be less than 94dB (μ V/m) at 3 meters according to §15.249(a)(c) of the standard.

According to DA 00-705, transmitter's peak power has been calculated using the following equation:

$$P = \frac{(E \cdot d)^2}{30G}$$

Where:

$$\begin{aligned} d &= 3m \\ G &= 1 \text{ (isotropic antenna)} \end{aligned}$$

- **Remote control**

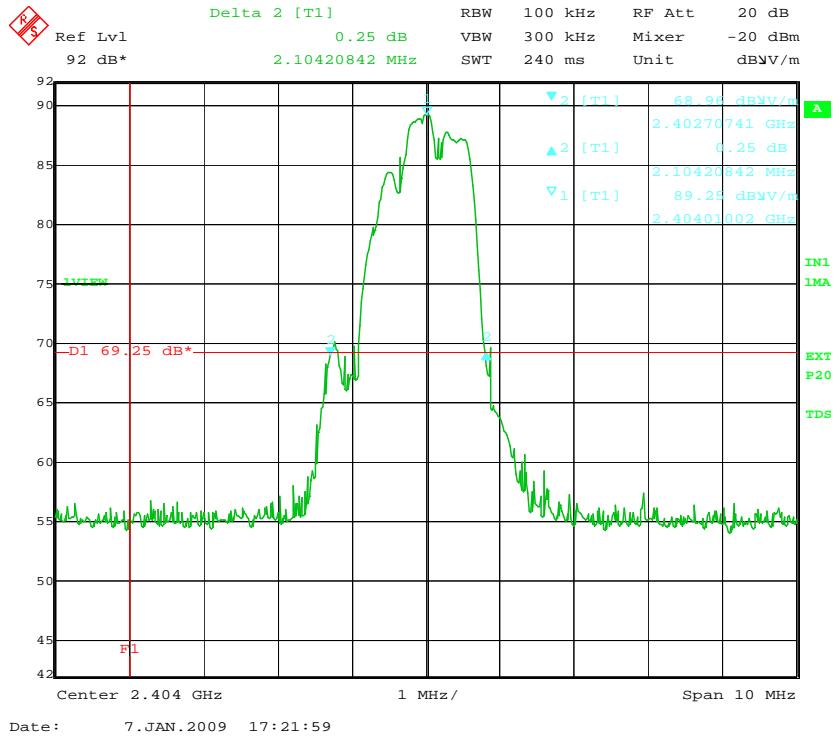
Channel	Frequency (MHz)	(dB μ (V/m))	Power	
			(mW)	(μ W)
Low	2404	84	0.0753	75.3
Middle	2440	85	0.0948	94.8
High	2476	86	0.119	119



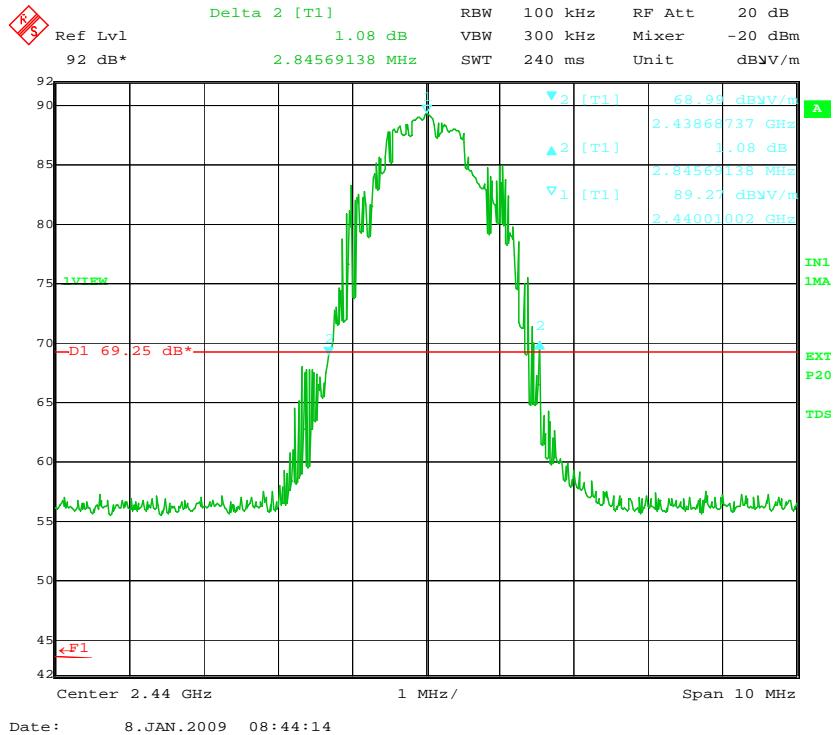
8.4.2 BANDWIDTH MEASUREMENT

Worst case 2.845 MHz

Lowest channel

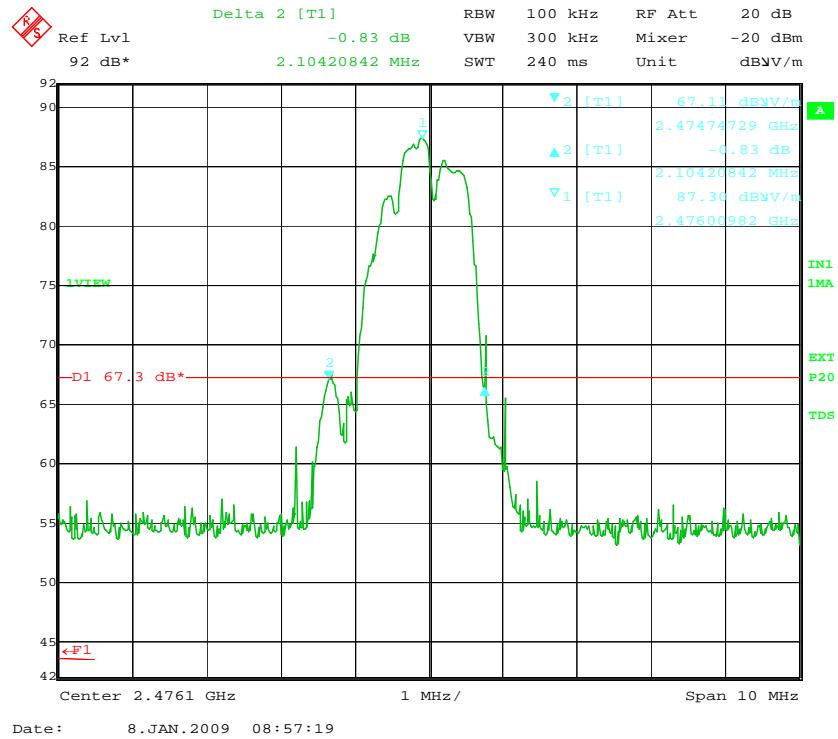


Middle Channel





Highest Channel





8.4.3 SPURIOUS EMISSIONS MEASUREMENTS §15.249(d)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

8.4.3.1 RADIATED SPURIOUS EMISSION BELOW 1000MHZ §15.205, §15.209, §15.249

Before final radiated emissions measurements which are performed on the open-field three/ten meters range; the EUT was pre-scanned in the semi anechoic at three meters distance. It was performed in order to determine its emissions spectrum signature. The physical arrangement of the test system was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to insure that maximum emission amplitudes were attained.

Final radiated emissions measurements were carried out on the three/ten-meters, open-field test site. The EUT was placed on an insulating support (wooden table) of 0.8m high above a conductive turntable (the turntable was grounded).

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters in order to determine the maximum emission levels.

Measurements were performed using both horizontal and vertical antenna polarizations. Below 30MHz, the spectrum analyzer 6dB bandwidth was set to 100 or 200Hz for peak measurements and 200Hz for quasi-peak in the range 9kHz to 150kHz.

Between 150kHz up to 30MHz, the bandwidth was set to 10kHz for peak measurements and 9kHz for quasi-peak measurements.

Between 30MHz to 1GHz, the spectrum analyzer's 6 dB bandwidth was set to 100 kHz for peak measurement and 120kHz for quasi-peak measurements

The analyzer was operated in the CISPR quasi-peak detection mode when needed.

No video filter less than 10 times the resolution bandwidth was used.

The range of the frequency spectrum to be investigated is specified in FCC Part 15.

The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

Summary of settings for measurements below 1GHz

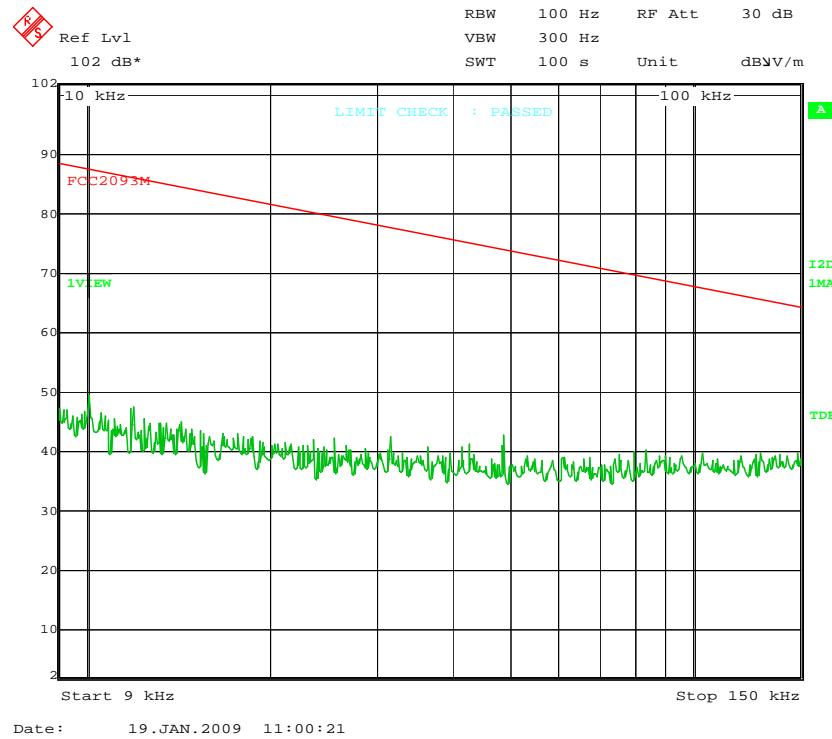
ESI 7 EMI TEST RECEIVER IN RECEIVER MODE	
Peak measurement time	5 ms
step size	< bandwidth
Preamplifier	ON
Preselector	ON
Resolution band width	200Hz, 9kHz or 120 kHz*
Final quasi peak measurement time	1 s minimum
Final average measurement time	1 s minimum

* depending of the frequency range to be scanned



- **Remote control**

No spurious was found, the level measured was the noise floor as well in the restricted band (§ 15.205) than the § 15.209.





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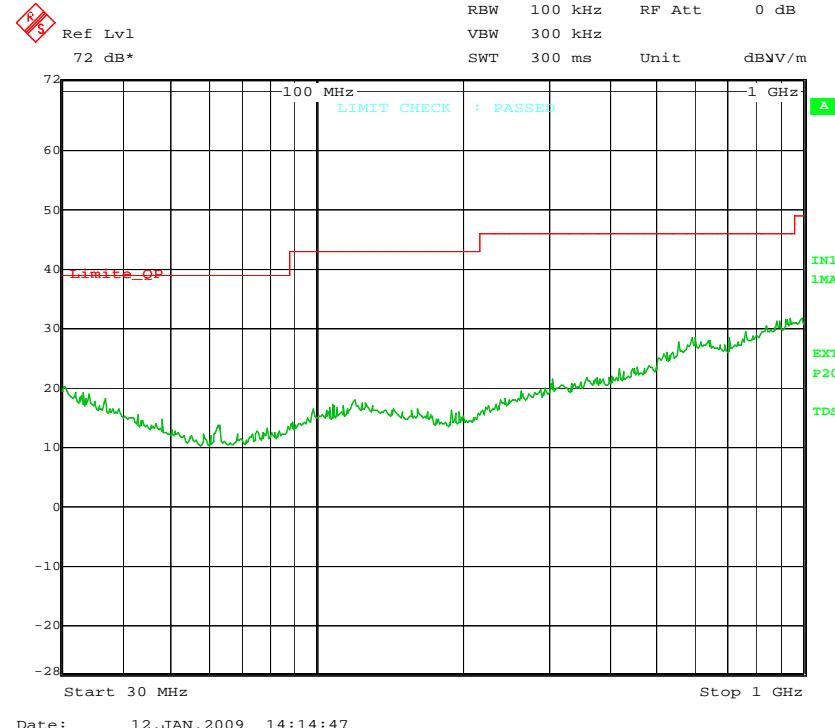
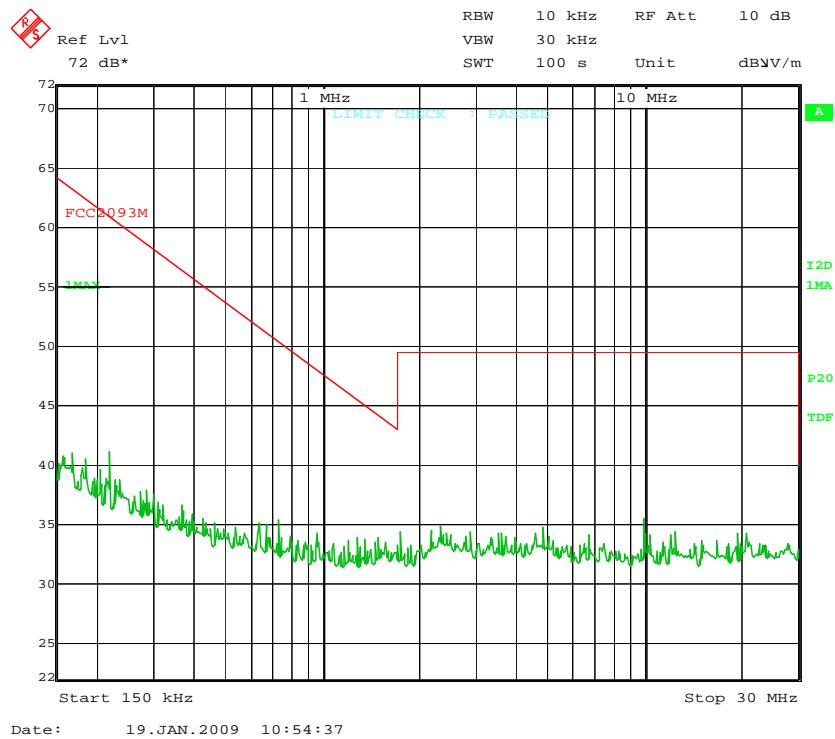
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8.4.3.2 RADIATED SPURIOUS EMISSION ABOVE 1000MHZ §15.205, §15.209, §15.249

A pre-scan measurement is done very close to the product (less than 10cm) with 100kHz RBW and a max peak detector.

Then measurements are performed at 3m with 1MHz RBW and a video averaging (10Hz) for spurious measurement.

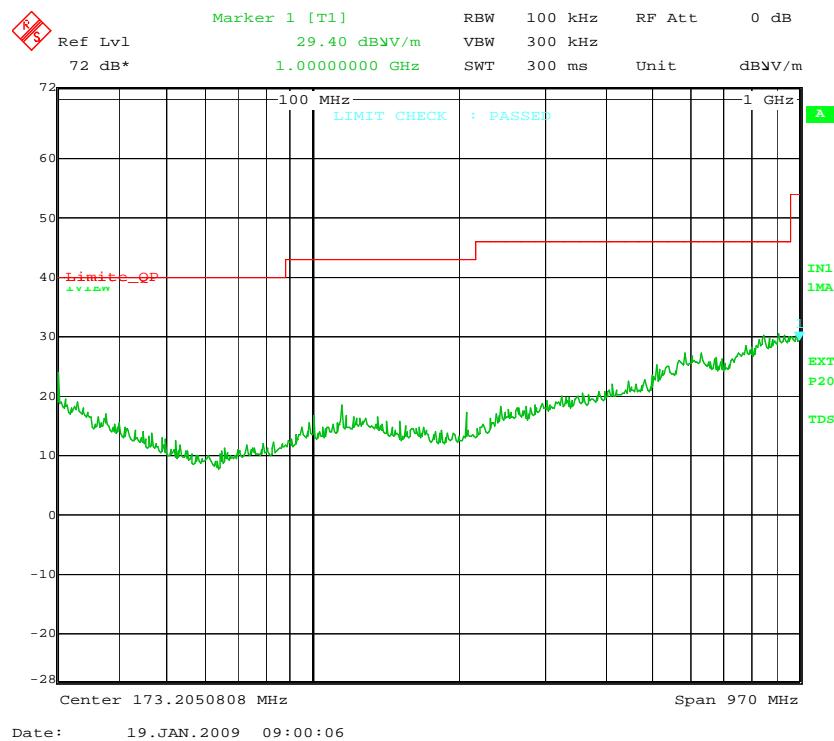
Harmonics are peak measured with 1MHz RBW

Spurious emissions are also made with a permanent emission on lowest, middle and highest channel.

Average limit in restricted bands §15.205 at 3 m is 54dB(μ V/m) (with a peak limit at 74 dB(μ V/m)). Otherwise, the limit is the same as the 50dB below the emission level is below the 15.209 limit.

Radiated emissions above 1GHz

No spurious found outside harmonics in transmitting mode.





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• **Remote control**

Maximum spurious for low channel 2404MHz

Frequency (MHz)	H.	Peak(1) (dB(µV/m)) at 3m	Peak limit At 3m (dB(µV/m))	Average(2) (dB(µV/m)) at 3m	Average limit At 3m (dB(µV/m))	Min. Margin (dB)
4 808	2	53.1	74.0	49.7	54.0	4.3
7 212	3	52.6	74.0	43.7	54.0	10.3
9 616	4	51.9	74.0	39.9	54.0	14.1
12 020	5	NF		NF		
14 424	6	NF		NF		
16 828	7	NF		NF		
19 232	8	NF		NF		
21 636	9	NF		NF		
24 040	10	NF		NF		

Maximum spurious for middle channel 2440MHz

Frequency (MHz)	H.	Peak(1) (dB(µV/m)) at 3m	Peak limit At 3m (dB(µV/m))	Average(2) (dB(µV/m)) at 3m	Average limit At 3m (dB(µV/m))	Min. Margin (dB)
4 880	2	51.1	74.0	45.9	54.0	8.1
7 320	3	57.0	74.0	49.0	54.0	5.0
9 760	4	51.0	74.0	40.5	54.0	13.5
12 200	5	NF		NF		
14 640	6	NF		NF		
17 080	7	NF		NF		
19 520	8	NF		NF		
21 960	9	NF		NF		
24 400	10	NF		NF		



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Maximum spurious for high channel 2476MHz

Frequency (MHz)	H.	Peak(1) (dB(μV/m)) at 3m	Peak limit At 3m (dB(μV/m))	Average(2) (dB(μV/m)) at 3m	Average limit At 3m (dB(μV/m))	Min. Margin (dB)
4 952	2	48.8	74.0	43.1	54.0	10.9
7 428	3	58.6	74.0	53.2	54.0	0.8
9 904	4	49.6	74.0	38.0	54.0	16.0
12 380	5	NF		NF		
14 856	6	NF		NF		
17 332	7	NF		NF		
19 808	8	NF		NF		
22 284	9	NF		NF		
24 760	10	NF		NF		

(1) Peak measurement with 1MHz RBW and VBW.

(2) Average measurement with 1MHz RBW and 10Hz VBW

NF means Noise Floor

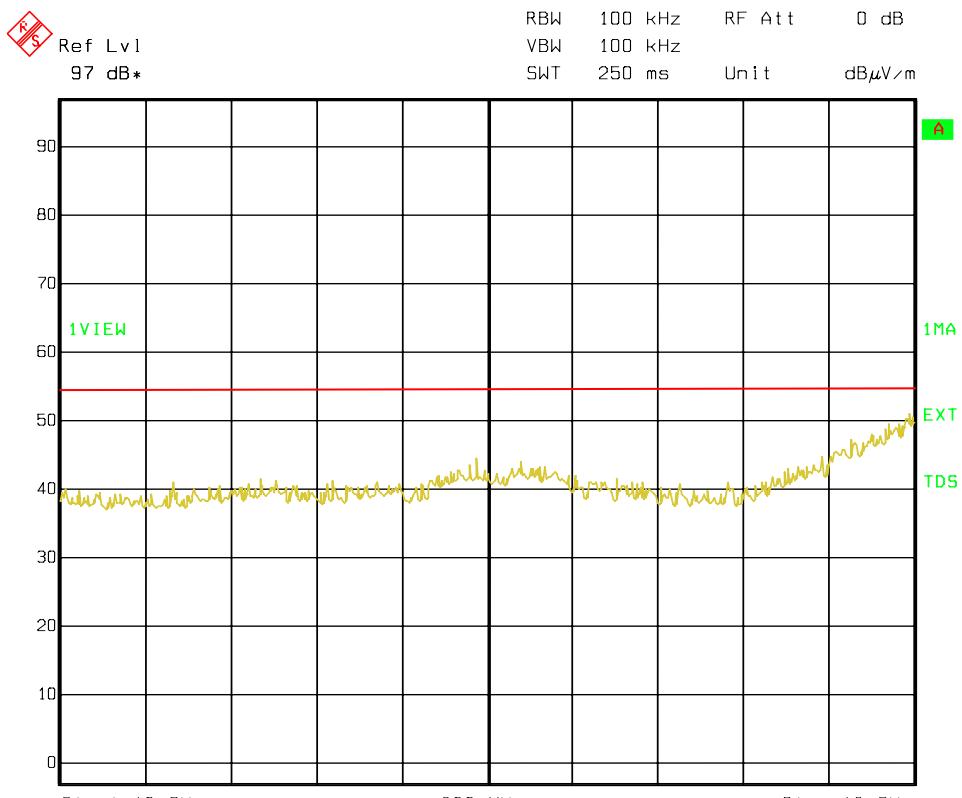


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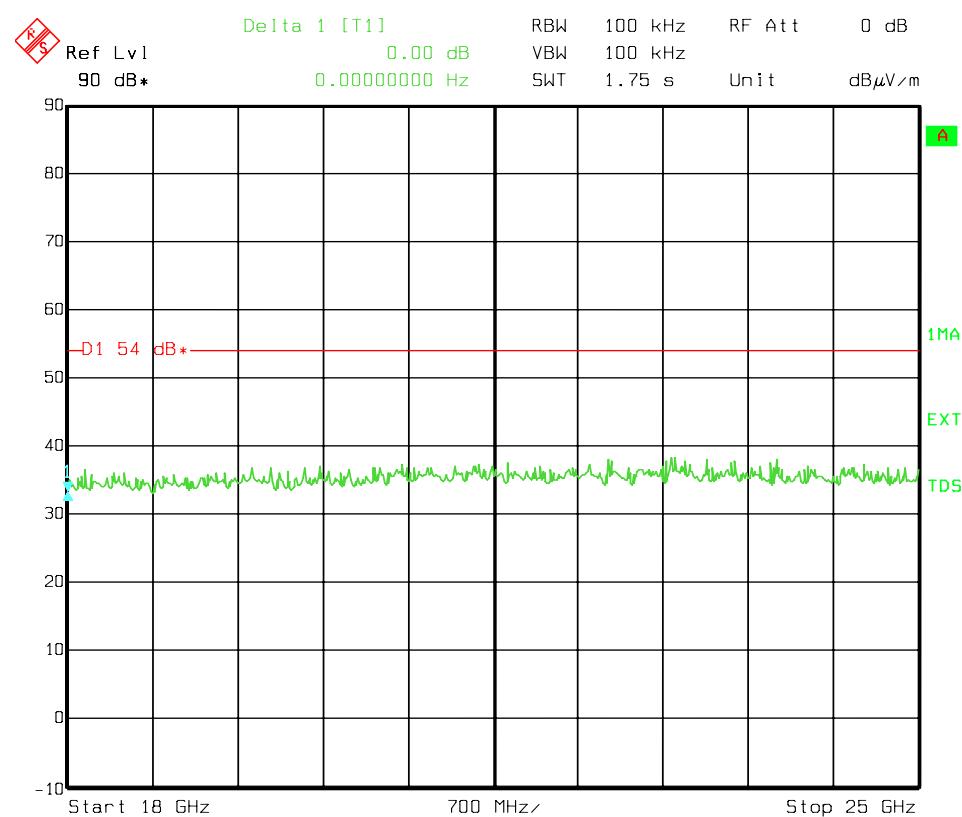
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Noise Floor



Date: 21.JAN.2009 14:35:20



Date: 12.JAN.2009 10:46:14



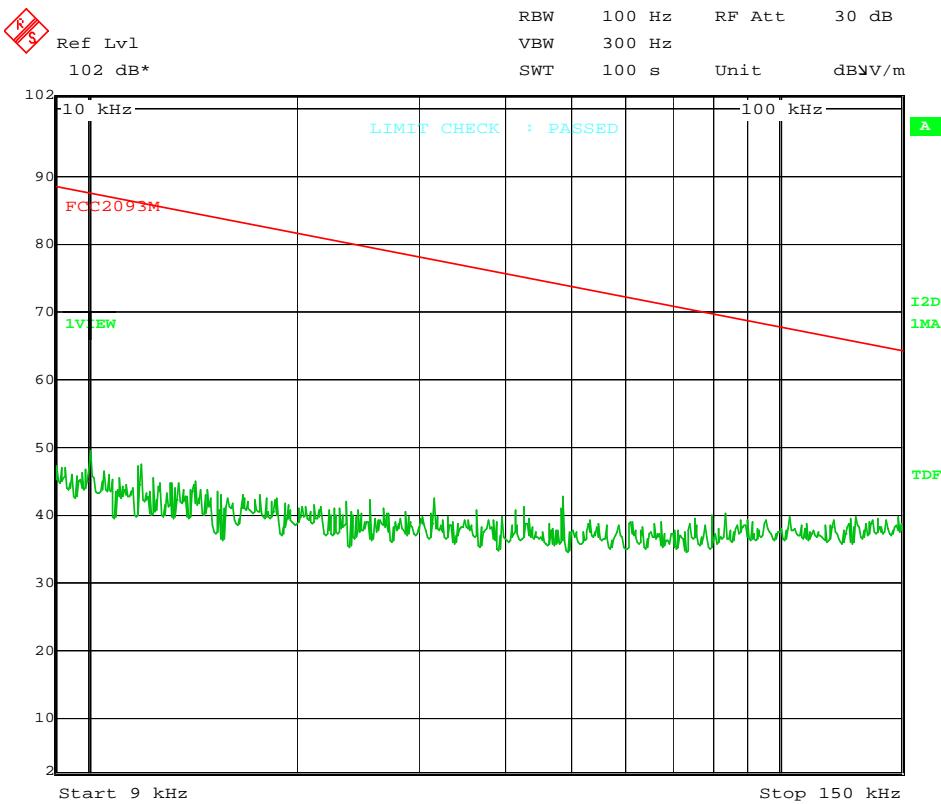
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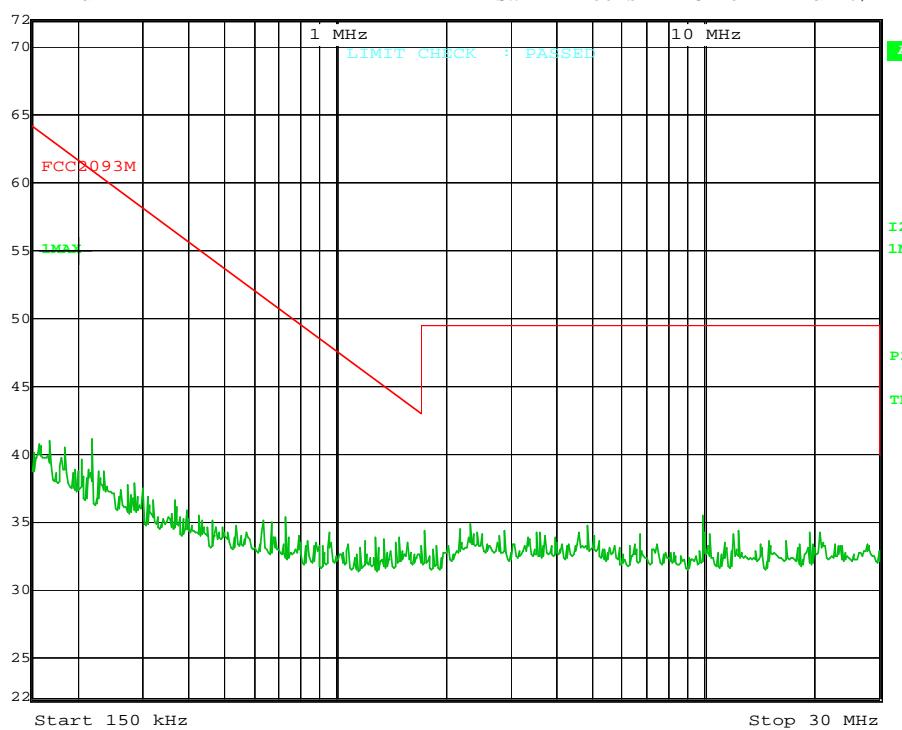
8.4.3.3 RECEIVER SPURIOUS RADIATION

No spurious emission has been found in receiver mode above the noise floor



Date: 19.JAN.2009 11:00:21

RBW 10 kHz RF Att 10 dB
VBW 30 kHz Unit dB μ V/m
SWT 100 s



Date: 19.JAN.2009 10:54:37



FCC and IC CERTIFICATION TEST REPORT

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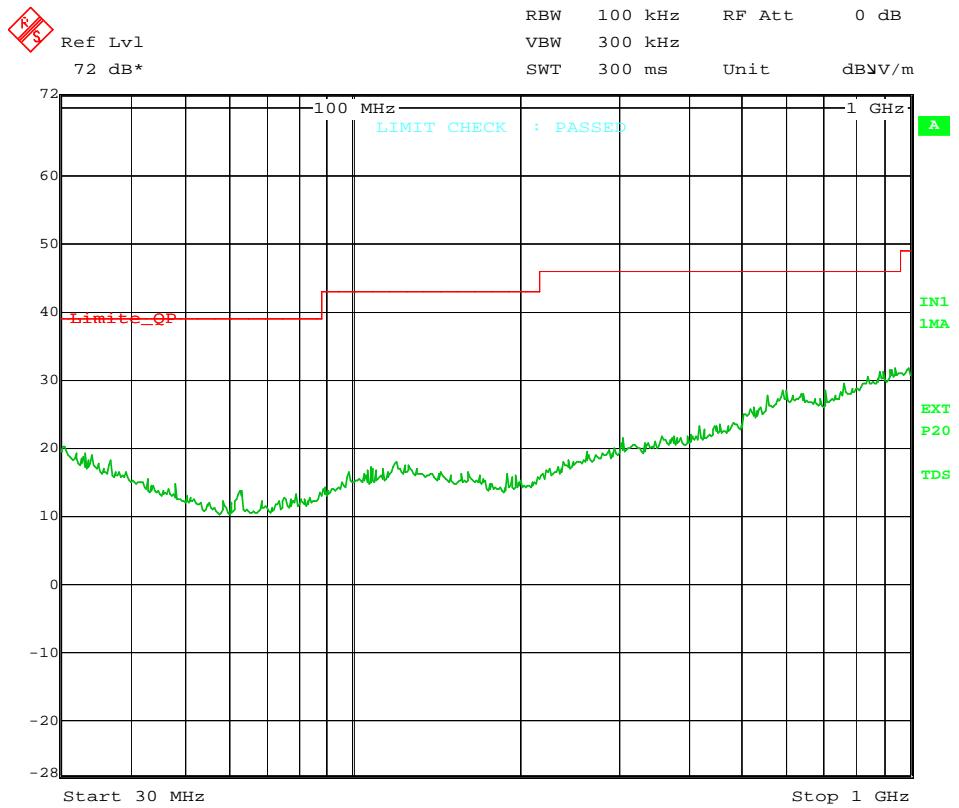
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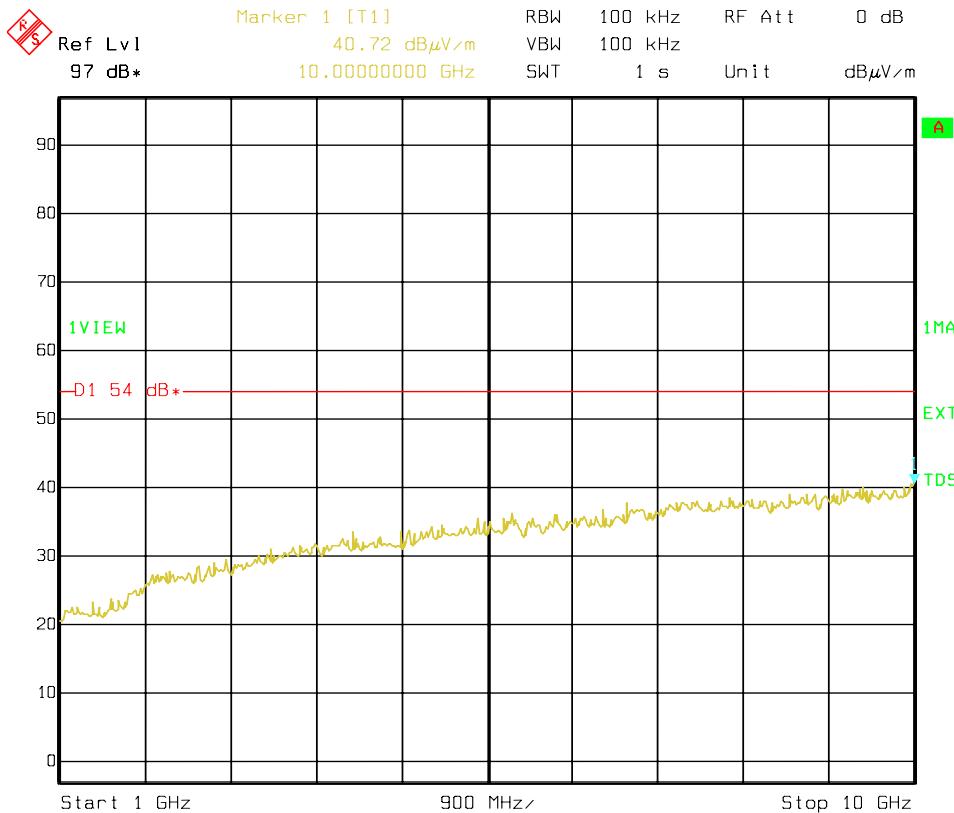
Identification : 560102-CC-1-b

FCC registration n°90469

IC registration n°IC4452A-1



Date: 12.JAN.2009 14:14:47



Date: 29.JAN.2009 9:10:51



FCC and IC CERTIFICATION TEST REPORT
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FCC registration n°90469
IC registration n°IC4452A-1

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