

FCC Test Firm Registration Number: 171131  
Industry Canada Test Firm Number: Site# 9545A-1

Matériel testé :  
*Equipment under test:*

**Plastron V3.1**

Constructeur:  
*Manufacturer:* **Laser Game Equipement**  
29, rue du Champ Roman  
38400 Saint Martin d'Hères - France

Rapport délivré à :  
*Issued to:* **Laser Game Equipement**  
29, rue du Champ Roman  
38400 Saint Martin d'Hères - France

Référence de la proposition : 082016-22130  
*Proposal number:*

Date de l'essai : Du 6 au 9 septembre 2016  
*Date of test:* September 6<sup>th</sup> to 9<sup>th</sup>, 2016

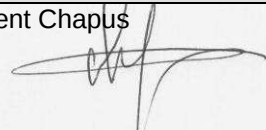
Objectif des essais : EMC qualification accordingly to following standards:  
*Test purpose:* - CFR 47, FCC Part 15, Subpart B & C  
(Chapter 15.247 - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz)  
- Industry Canada ICES-003 Issue 6, RSS-Gen Issue 4 & RSS-247, Issue 1  
(Digital Transmission Systems)

FCC ID: 2ABZ4-0004  
IC ID : 11833A-0004  
Model : Plastron V3.1

Lieu du test: SMEE CE-Mesures  
*Test location:* 38 VOIRON - France

Test réalisé par : Jérémy BLANCHER  
*Test realized by:*

Conclusion : L'équipement satisfait aux prescriptions des normes citées en référence.  
*Conclusion:* The appliance complies with requirements of above mentioned standards.

| Ed. | Date                            | Modifications<br>Pages | Written by:     | Approved by:<br>Visa                                                                                    |
|-----|---------------------------------|------------------------|-----------------|---------------------------------------------------------------------------------------------------------|
| 1   | October 12 <sup>th</sup> , 2016 | Initial Edition        | Jeremy Blancher | Laurent Chapus<br> |

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## COORDONNEES

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## 1. Normatives References

| FCC qualification following: |         |                                                                                                                                                                      |
|------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                    | Applied | Title                                                                                                                                                                |
| ANSI C63.4<br>(2014)         | X       | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz. |
| ANSI C63.10<br>(2013)        | X       | American National Standard for Testing Unlicensed Wireless Devices                                                                                                   |
| CFR47, Part 15               | X       | Telecommunication – Federal Communication Commission – Radio frequency devices,<br>Sections 15.107 / 15.109 / 15.207 / 15.209 / 15.247                               |

| Industry Canada qualification following: |         |                                                                                                                              |
|------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------|
| Standards                                | Applied | Title                                                                                                                        |
| ICES-003<br>(Issue 6/2016)               | X       | Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement                           |
| RSS-Gen<br>(Issue 4/2014)                | X       | General Requirements and Information for the Certification of Radio Apparatus                                                |
| RSS-247<br>(Issue1/2015)                 | X       | Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices |

**Note:** Following guidance are used

- DTS Measurement Guidance 558074 D01 v03r04
- Determining ERP and EIRP Guidance 412172 D01 v01r01

## 2. Test synthesis

| TEST                                                   | Paragraph number<br>FCC Part 15 /<br>IC RSS-247                                     | Spec.<br>FCC Part 15 / IC RSS-247                                                                                                                                                                                                                             | RESULTS<br>(comments) |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Conducted emissions test                               | 15.107 (a) / 15.207 (a)<br>ICES-003: Issue 6, §6.1<br>RSS-Gen: Issue 4, §8.8        | Table 15.107 (a) / 15.207 (a)<br>Table §6.1<br>Table §8.8                                                                                                                                                                                                     | PASS (1)              |
| Radiated emission test                                 | 15.109 (a) / 15.209 (a)<br>ICES-003: Issue 6, §6.2<br>RSS-Gen: Issue 4, §7.1        | Table 15.109 (a)<br>Table §6.2<br>Table §7.1.2                                                                                                                                                                                                                | PASS                  |
| 6dB Bandwidth                                          | 15.247 (a) (2)<br>RSS-247 §5.2 (1)                                                  | At least 500kHz                                                                                                                                                                                                                                               | PASS                  |
| Maximum Peak Output Power                              | 15.247 (b) (3)<br>RSS-247 §5.4 (4)                                                  | 1W max / 30dBm (Conducted)<br>4W max / 36dBm (EIRP)                                                                                                                                                                                                           | PASS                  |
| Maximum Power Spectral Density                         | 15.247 (e)<br>RSS-247 §5.2 (2)                                                      | 8dBm in a 3kHz band segment                                                                                                                                                                                                                                   | PASS                  |
| Unwanted emissions into Non Restricted Frequency Bands | 15.247 (d) /<br>RSS-247 §5.5                                                        | -20dBc in any 100kHz outside frequency band.                                                                                                                                                                                                                  | PASS                  |
| Unwanted emissions into Restricted Frequency Bands     | 15.209 / 15.247 (d) /<br>15.205<br>RSS-Gen: Issue 4, §8.9 &<br>§8.10 / RSS-247 §5.5 | Measure at 300m<br>9-490kHz: 2400µV/m/F(kHz)<br>Measure at 30m<br>0.490-1.705: 24000µV/m/F(kHz)<br>1.705-30MHz: 30µV/m<br>Measure at 3m<br>30MHz-88MHz : 40 dBµV/m<br>88MHz-216MHz : 43.5 dBµV/m<br>216MHz-960MHz : 46.0 dBµV/m<br>Above 960MHz : 54.0 dBµV/m | PASS                  |
| Occupied Bandwidth                                     | RSS-Gen: Issue 4, §6.6                                                              | BW at 99%                                                                                                                                                                                                                                                     | PASS                  |

N/A: Not Applicable

(1): For battery charging mode only

### • General conclusion:

Measures and tests performed on the sample of the product **PLASTRON V3.1**, in configuration and description presented in this test report, show compliance with standards FCC CFR 47, PART 15, Subpart B & C and Industry Canada ICES-003, RSS-Gen & RSS-247.

## 3. Equipment Under Test (EUT)

Nom /  
Identification

PLASTRON V3.1

Sn: N.C

Alimentation /  
Power supply

- 7.4V from internal Li-ion battery, or
- AC mains for charging mode only (via power adapter MASCOTT, model 2541)

Auxiliaires /  
Auxiliaries

ROUTEUR V3, Laser Game Equipment product  
(RF communication only)

Entrées-Sorties /  
Input / Output

|                           | Câbles pour essai /<br>Cables for test | Blindé /<br>Shielded | Prévu pour >3m /<br>Intended for >3m |
|---------------------------|----------------------------------------|----------------------|--------------------------------------|
| AC mains to power adapter | 2 lines, 1m                            | No                   | Mains                                |
| DC input to equipment     | 2 wires, 2m                            | No                   | No                                   |

Version programme /  
Firmware version

N.C

Mode de fonctionnement /  
Running mode

- The tested sample is able to:
- Transmit a carrier frequency on low, middle and high channels (903.5MHz / 914.5MHz / 926.5MHz)
  - Communicate with ancillary equipment
  - Be in Receiver mode (no transmission, Game mode)
  - Be in charge mode (RF function not activated)

Programme de test /  
Test program /

"PlastronComInterface" for RF communication configuration

### • Equipment information:

- Frequency band: 902 to 928 MHz (Tx & Rx, Digital Transmission systems)
- Frequency channels used: 903.5MHz / 912.5MHz / 914.5MHz / 926.5MHz
- Modulation: FSK  $\pm$  75kHz
- RF chip: HOPERF Electronics, model RFM69HW
- Antenna type: Single wire antenna
- RF Output Power setting: 13dBm
- Maximum antenna gain: -7dBi
- Powered by 7.4V DC from internal battery
- Equipment intended for use as a portable station
- Equipment designed for continuous operation

#### **4. Test conditions**

Relative Humidity : 50-55%  
Temperature : 20-22°C

Power supply voltage:

Equipment under test : 7.4V DC from Li-ion battery  
AC Mains : 110V/60Hz to AC/DC power adapter

#### **5. Modifications of the EUT**

None

#### **6. Special accessory**

None

## 7. Conducted Emission Measurement (150kHz-30MHz)

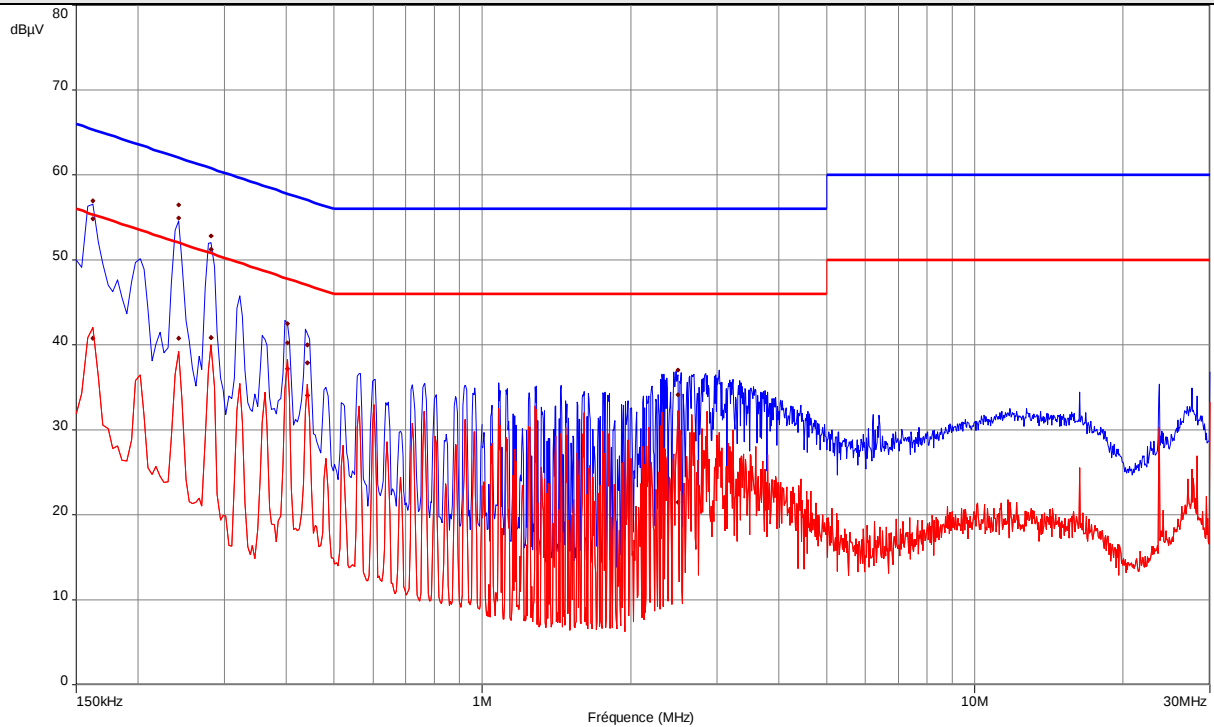
| TEST: Limits for conducted disturbance 150kHz – 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |        |                                                    | Verdict |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------|----------------------------------------------------|---------|
| Method: The LISN is placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment were at least 0,8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on lines were made at the output of the LISN. The EUT is 80cm above the ground reference plane and 40cm from the vertical ground plane. The AC power cable is 1m length. |                                      |        |                                                    | Pass    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Required prior to the test           |        | During the test                                    |         |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 to 40 °C                          |        | 20°C                                               |         |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 to 90 %                           |        | 55%                                                |         |
| Fully configured sample scanned over the following frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency range on each side of line |        | Measurement Point                                  |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 150kHz to 30MHz                      |        | AC input ports<br>(110V on standard power adapter) |         |
| Running mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Battery charging                     |        |                                                    |         |
| Limits – FCC Part 15.107 (a), 15.207 (a) / ICES-003 §6.1, RSS-Gen §8.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |        |                                                    |         |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Limit dB (µV)                        |        |                                                    |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quasi-Peak                           | Result | Average                                            | Result  |
| 0.15 – 0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 66 \ 56                              | Pass   | 56 \ 46                                            | Pass    |
| 0.50 – 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56                                   | Pass   | 46                                                 | Pass    |
| 5 – 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60                                   | Pass   | 50                                                 | Pass    |
| Supplementary information:<br>Test location: SMEE – CE Mesures<br>Test date: September 9 <sup>th</sup> , 2016<br>Power supply voltage: 110V / 60Hz to power adapter                                                                                                                                                                                                                                                                                                                                                                                                |                                      |        |                                                    |         |

| Test Equipment Used  |               |          |             |           |          |
|----------------------|---------------|----------|-------------|-----------|----------|
| Description          | Manufacturer  | Model    | Identifier  | Cal. Date | Cal. Due |
| Attenuator / limiter | SMEE          | ATT#1    | ATT-101-004 | 2016/3    | 2017/3   |
| Cable RF             | Div           | 2m       | CAB-101-007 | 2016/3    | 2017/3   |
| LISN (50Ω / 50µH)    | AFJ           | LS16C    | RSI-101-001 | 2016/3    | 2017/3   |
| LISN (50Ω / 50µH)    | AFJ           | LS16C    | RSI-101-002 | 2016/3    | 2017/3   |
| Measuring Rec        | Rohde&Schwarz | ESRP     | REC-151-021 | 2015/7    | 2018/7   |
| Ref. Comb generator  | SMEE          | EMC-250K | REF-111-001 | -         | -        |

## Tabulated Results for Mains Terminal Disturbance Voltage on AC port

| FREQ<br>(MHz)                        | Meas. PK<br>(dBμV) | Mes. QP<br>(dBμV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LIMIT QP<br>(dBμV) | Margin QP<br>(dB) | Mes. AV<br>(dBμV) | LIMIT AV<br>(dBμV) | Margin AV<br>(dB) | Line    |
|--------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------|-------------------|--------------------|-------------------|---------|
| 0.162                                | 57.0               | 54.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 65.4               | <b>-10.6</b>      | 40.8              | 55.4               | <b>-14.6</b>      | Line L1 |
| 0.242                                | 56.5               | 55.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 62.0               | <b>-7.1</b>       | 40.8              | 52.0               | <b>-11.2</b>      | Line L1 |
| 0.282                                | 52.8               | 51.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60.8               | <b>-9.5</b>       | 40.9              | 50.8               | <b>-9.9</b>       | Line L1 |
| 0.402                                | 42.5               | 40.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57.8               | <b>-17.6</b>      | 37.2              | 47.8               | <b>-10.6</b>      | Line L1 |
| 0.442                                | 40.0               | 37.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57.0               | <b>-19.1</b>      | 34.1              | 47.0               | <b>-13.0</b>      | Line L1 |
| 2.500                                | 37.0               | 34.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 56.0               | <b>-21.9</b>      | 21.5              | 46.0               | <b>-24.5</b>      | Line L1 |
| 0.158                                | 56.7               | 53.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 65.6               | <b>-12.0</b>      | 40.9              | 55.6               | <b>-14.7</b>      | Neutral |
| 0.242                                | 57.2               | 55.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 62.0               | <b>-6.5</b>       | 43.7              | 52.0               | <b>-8.4</b>       | Neutral |
| 0.282                                | 53.5               | 51.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60.8               | <b>-9.2</b>       | 43.5              | 50.8               | <b>-7.2</b>       | Neutral |
| 0.322                                | 45.3               | 43.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 59.7               | <b>-16.6</b>      | 37.6              | 49.7               | <b>-12.1</b>      | Neutral |
| 0.402                                | 40.7               | 37.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57.8               | <b>-20.4</b>      | 33.3              | 47.8               | <b>-14.5</b>      | Neutral |
| <b>Frequency band investigated:</b>  |                    | 150kHz-30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                   |                   |                    |                   |         |
| <b>RBW:</b>                          |                    | 9kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                   |                   |                    |                   |         |
| <b>Voltage:</b>                      |                    | 110V / 60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                   |                   |                    |                   |         |
| <b>Limit:</b>                        |                    | FCC Part 15.107, 15.207 / ICES-003, RSS-Gen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                   |                   |                    |                   |         |
| <b>Final measurement detector:</b>   |                    | Quasi-Peak and Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                   |                   |                    |                   |         |
| <b>Wide Measurement Uncertainty:</b> |                    | ± 3.6dB (k=2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |                   |                   |                    |                   |         |
| <b>RESULT:</b>                       |                    | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                   |                   |                    |                   |         |
| <b>Measured value calculation:</b>   |                    | <p>The measured value (level) is calculated by adding the Cable Factor, the Transient suppressor attenuation and LISN attenuation from the receiver amplitude reading. The basic equation is as follow:</p> $\text{Meas.} = \text{RA} + \text{CF} + \text{ATT}_{\text{TRAN}} + \text{ATT}_{\text{LISN}}$ <p>Where Meas. = Level (dBμV)</p> <p>RA = Receiver Amplitude</p> <p>CF = Cable Factor</p> <p>ATT<sub>TRAN</sub> = Transient suppressor attenuation</p> <p>ATT<sub>LISN</sub> = LISN attenuation</p> <p>Margin value = Emission level – Limit value</p> |                    |                   |                   |                    |                   |         |

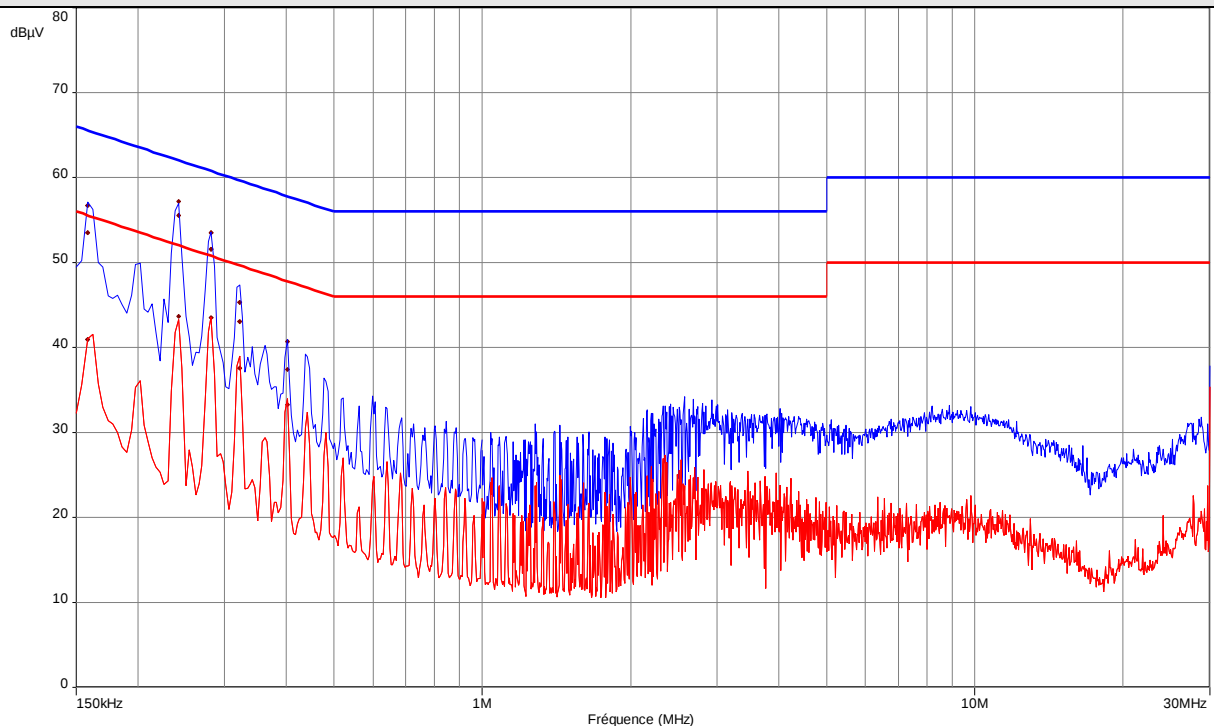
## Graphical representation of Conducted Disturbance Measurement (Peak and Average detection) AC port, Line L1



----: Peak

----: Average

## Graphical representation of Conducted Disturbance Measurement (Peak and Average detection) AC port, Line Neutral



----: Peak

----: Average

## 8. Radiated Emission Measurement (30MHz-9.3GHz)

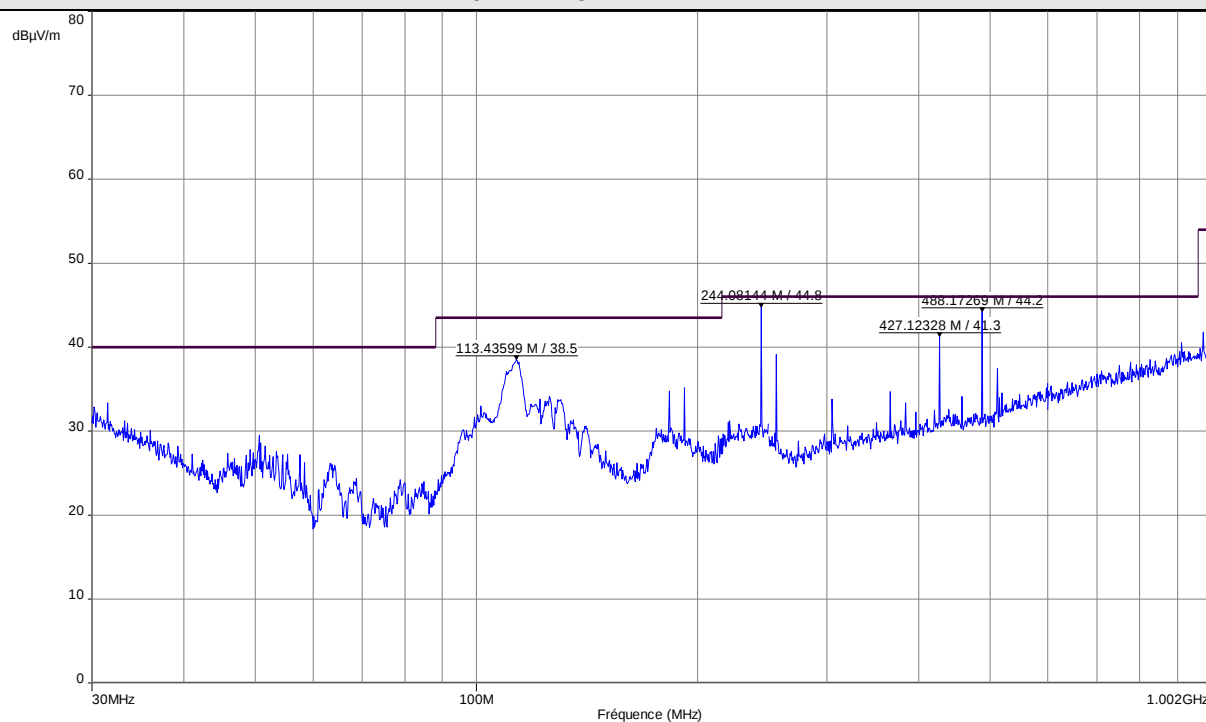
| TEST: Limits for radiated disturbance 30 MHz – 9.3 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |                          | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------|---------|
| <p><u>Method:</u> Measurements were made in a 3-meter Open Area Test Site (OATS) that complies to ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meters. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (Peak, Quasi-peak) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.</p> <p>A pre-scan frequency identification of the EUT has been performed in full anechoic chamber. The measured radiated field of the EUT is realised at 3-meters of distance. Antenna is 1.25-meters high. The pre-characterization graphs are obtained in PEAK detection.</p> |                                                                         |                          | Pass    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Required prior to the test                                              | During the test          |         |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 to 40 °C                                                             | 25°C                     |         |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 to 90 %                                                              | 55%                      |         |
| Fully configured sample scanned over the following frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Frequency range on each side of line                                    | Measurement Point        |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30MHz – 9.3GHz                                                          | 3 m measurement distance |         |
| Running mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - Battery Charging mode<br>- Game mode (RF function is in receive mode) |                          |         |
| Limits – FCC Part 15.109 (a), 15.209 (a) / ICES-003 §6.2, RSS-Gen §7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |                          |         |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limit at 3m (dBµV/m)                                                    |                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Level (Detector)                                                        | Results                  |         |
| 30 to 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 40.0 (QP)                                                               | Pass                     |         |
| 88 to 216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 43.5 (QP)                                                               | Pass                     |         |
| 216 to 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 46.0 (QP)                                                               | Pass                     |         |
| 960 to 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 54.0 (QP)                                                               | Pass                     |         |
| Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 54.0 (AV)<br>74.0 (PK)                                                  | Pass                     |         |
| Supplementary information:<br>Test location: SMEE<br>Test date: September 6 <sup>th</sup> , 2016 by J. Blancher<br>Power supply voltage: 7.4Vdc from battery or 230V / 50Hz to power adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                         |                          |         |

| Test Equipment Used  |                |          |             |           |          |
|----------------------|----------------|----------|-------------|-----------|----------|
| Description          | Manufacturer   | Model    | Identifier  | Cal. Date | Cal. Due |
| Log-periodic antenna | TDK            | PLP3003  | ANT-101-001 | 2016/8    | 2017/8   |
| Biconnic antenna     | COM-POWER      | AB- 900  | ANT-101-003 | 2016/8    | 2017/8   |
| BiConiLog antenna    | EMCO           | 3142B    | ANT-101-010 | 2016/8    | 2017/8   |
| Horn antenna         | ETS-LINDGREN   | 3115     | ANT-141-013 | 2015/7    | 2018/7   |
| RF cable             | Div            | 2m       | CAB-101-011 | 2016/3    | 2017/3   |
| RF cable             | Div            | OATS/25m | CAB-101-019 | 2016/3    | 2017/3   |
| RF cable             | Div            | OATS/10m | CAB-101-020 | 2016/3    | 2017/3   |
| Anechoic chamber     | COMTEST        | 214263   | CAG-141-001 | -         | -        |
| OATS                 | Div            | 10m      | SIT-101-001 | 2016/8    | 2017/8   |
| Antenna mast         | Innco- Systems | MA4000EP | MAT-101-001 | -         | -        |
| Turntable            | Innco- Systems | DS1200S  | PLA-101-001 | -         | -        |
| Measuring Rec        | Rohde&Schwarz  | ESRP     | REC-151-002 | 2015/7    | 2018/7   |
| Ref. Comb generator  | SMEE           | EMR-10M  | REF-111-002 | -         | -        |

## Tabulated Results for Radiated Disturbance (3m measurement on Open Area Test Site, 30MHz-1GHz)

| Charging mode                                                                              |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |     |                |             |             |             |
|--------------------------------------------------------------------------------------------|---------------|---------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|----------------|-------------|-------------|-------------|
| FREQ                                                                                       | Meter reading | Meter reading | Total Factor | Field level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Field level | Pol | Antenna height | Table angle | Limit       | Margin      |
| MHz                                                                                        | (QP) dBμV     | (Pk) dBμV     | dB           | (QP) dBμV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (Pk) dBμV/m |     | cm             | Degré       | (QP) dBμV/m | dB          |
| 65,110                                                                                     | 24,0          | 36,9          | 9,9          | <b>33,9</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 46,8        | V   | 100            | 45          | 40,0        | <b>-6,1</b> |
| 122,037                                                                                    | 18,8          | 22,8          | 15,1         | <b>33,9</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 37,9        | H   | 150            | 120         | 43,5        | <b>-9,6</b> |
| 128,000                                                                                    | 22,8          | 26,2          | 14,8         | <b>37,6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 41,0        | H   | 150            | 270         | 43,5        | <b>-5,9</b> |
| 244,083                                                                                    | 23,6          | 28,6          | 18,8         | <b>42,4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47,4        | H   | 140            | 225         | 46,0        | <b>-3,6</b> |
| 427,150                                                                                    | 20,4          | 21,9          | 20,4         | <b>40,8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 42,3        | V   | 125            | 30          | 46,0        | <b>-5,2</b> |
| 488,170                                                                                    | 23,5          | 25,2          | 22,2         | <b>45,7</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47,4        | V   | 100            | 25          | 46,0        | <b>-0,3</b> |
| Game mode                                                                                  |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |     |                |             |             |             |
| FREQ                                                                                       | Meter reading | Meter reading | Total Factor | Field level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Field level | Pol | Antenna height | Table angle | Limit       | Margin      |
| MHz                                                                                        | (QP) dBμV     | (Pk) dBμV     | dB           | (QP) dBμV/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (Pk) dBμV/m |     | cm             | Degré       | (QP) dBμV/m | dB          |
| 244,083                                                                                    | 22,3          | 26,5          | 18,8         | <b>41,1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 45,3        | H   | 120            | 30          | 46,0        | <b>-4,9</b> |
| 427,150                                                                                    | 19,7          | 22,5          | 20,4         | <b>40,1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 42,9        | V   | 115            | 0           | 46,0        | <b>-5,9</b> |
| 488,170                                                                                    | 21,6          | 23,8          | 22,2         | <b>43,8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 46,0        | V   | 100            | 30          | 46,0        | <b>-2,2</b> |
| Supplementary information:                                                                 |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |     |                |             |             |             |
| Frequency list measured on the Open Area Test Site has been created with pre-scan results. |               |               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |     |                |             |             |             |
| <b>Frequency band investigated:</b>                                                        |               |               |              | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |     |                |             |             |             |
| <b>RBW:</b>                                                                                |               |               |              | 120kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |     |                |             |             |             |
| <b>Measurement distance:</b>                                                               |               |               |              | 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |     |                |             |             |             |
| <b>Limit:</b>                                                                              |               |               |              | FCC Part 15.109, 15.209 / ICES-003, RSS-Gen                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |     |                |             |             |             |
| <b>Final measurement detector:</b>                                                         |               |               |              | Quasi-Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |     |                |             |             |             |
| <b>Wide Measurement Uncertainty:</b>                                                       |               |               |              | ± 5.2dB (k=2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |     |                |             |             |             |
| <b>RESULT:</b>                                                                             |               |               |              | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |     |                |             |             |             |
| <b>Field Strength Calculation:</b>                                                         |               |               |              | <p>The field strength (level) is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation is as follow:</p> $FS = RA + AF + CF - AG$ <p>Where FS = Field Strength (Level)</p> <p>RA = Receiver Amplitude (Meter reading)</p> <p>AF = Antenna Factor</p> <p>CF = Cable Factor</p> <p>AG = Amplifier Gain</p> <p>Total factor (dB) is AF + CF – AG</p> <p>Margin value = Emission level – Limit value</p> |             |     |                |             |             |             |

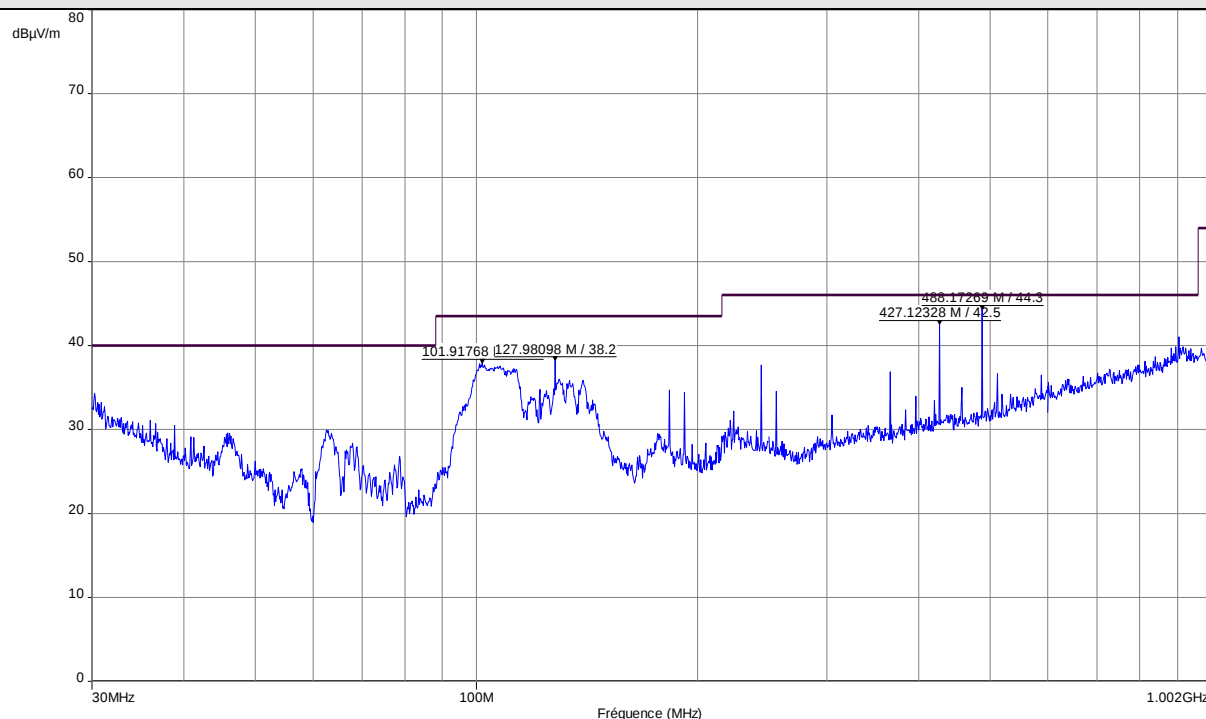
## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Horizontal) – Charge mode



Note: Pre-scan graph only for identification purpose.

|                               |                            |  |
|-------------------------------|----------------------------|--|
| ----- : Peak measure          | ----- : Class B limit (3m) |  |
| Frequency band investigated:  | 30MHz-1GHz                 |  |
| Unit :                        | dBμV/m                     |  |
| RBW :                         | 100kHz                     |  |
| Antenna polarization :        | Horizontal                 |  |
| Voltage:                      | 7.4V DC                    |  |
| Limit:                        | 15.109 / ICES-003          |  |
| Measurement detector:         | Peak                       |  |
| Wide Measurement Uncertainty: | ± 5dB (k=2)                |  |

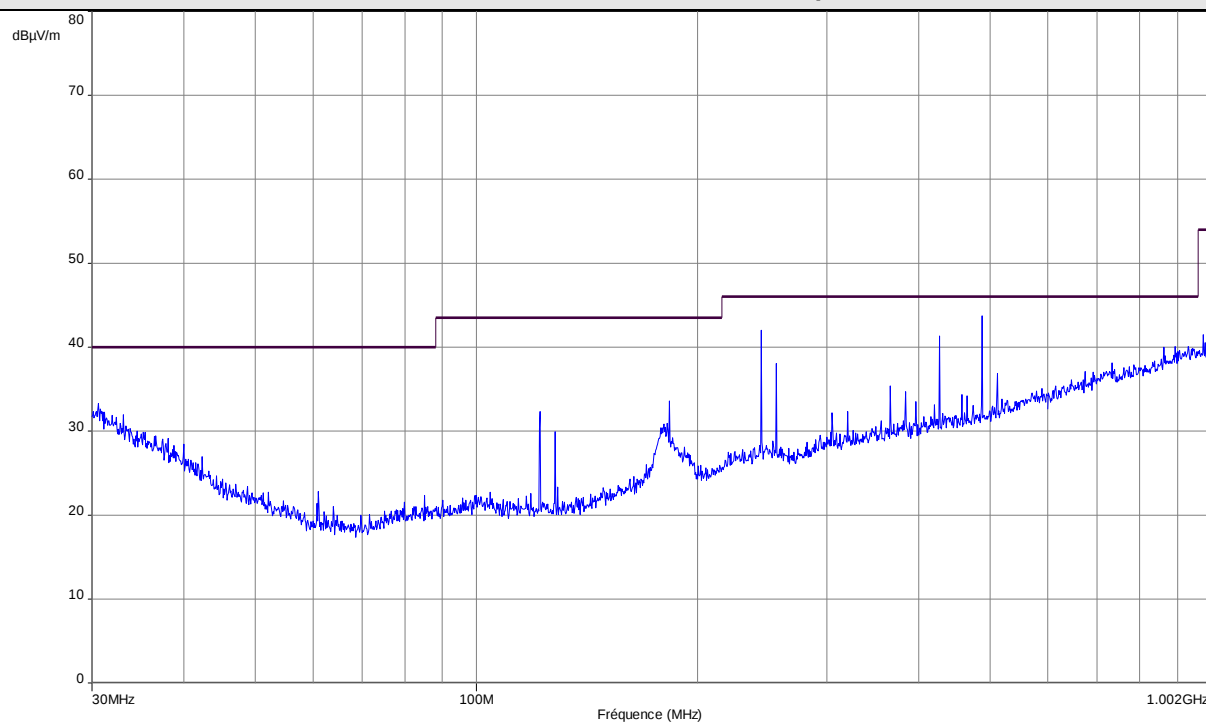
## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Vertical) – Charge mode



Note: Pre-scan graph only for identification purpose.

|                                      |                            |  |
|--------------------------------------|----------------------------|--|
| ----- : Peak measure                 | ----- : Class B limit (3m) |  |
| <b>Frequency band investigated:</b>  | 30MHz-1GHz                 |  |
| <b>Unit :</b>                        | dBμV/m                     |  |
| <b>RBW :</b>                         | 100kHz                     |  |
| <b>Antenna polarization :</b>        | Horizontal                 |  |
| <b>Voltage:</b>                      | 7.4V DC                    |  |
| <b>Limit:</b>                        | 15.109 / ICES-003          |  |
| <b>Measurement detector:</b>         | Peak                       |  |
| <b>Wide Measurement Uncertainty:</b> | ± 5dB (k=2)                |  |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Horizontal / Game with Receive Mode)

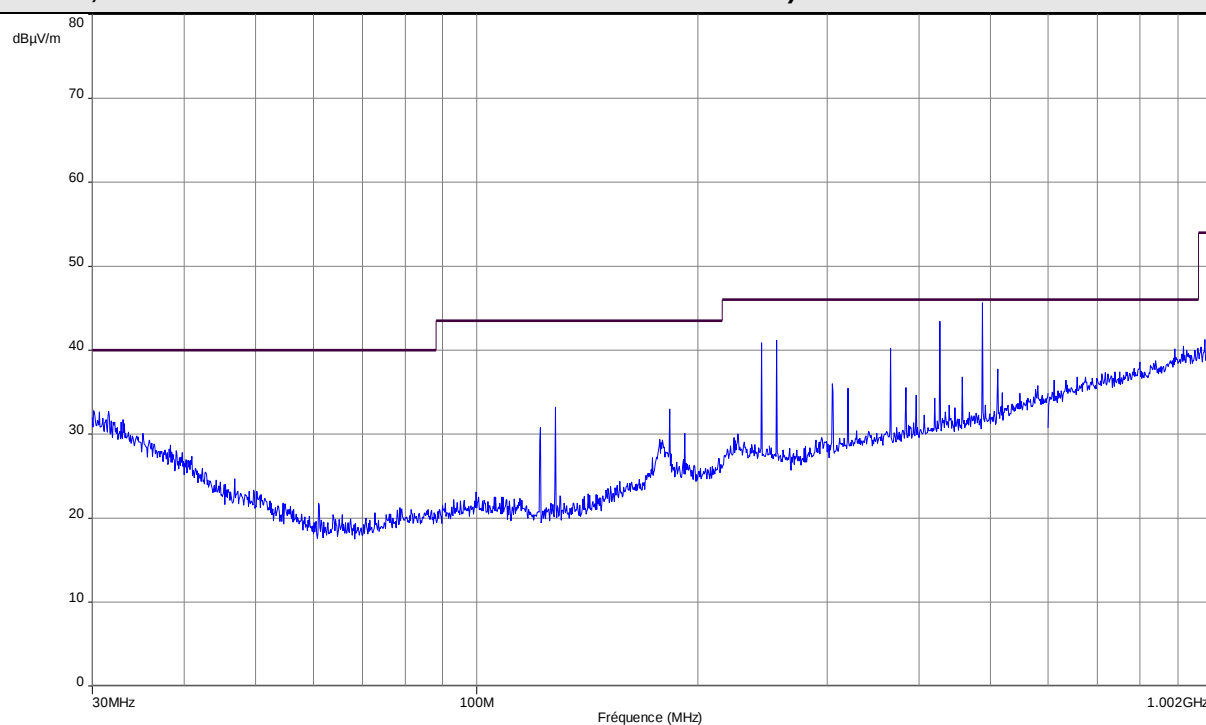


| Frequency (MHz) | Peak Level (dBμV/m) |
|-----------------|---------------------|
| 244.081         | 42.04               |
| 255.980         | 38.08               |
| 427.123         | 41.36               |
| 488.173         | 43.74               |

Note: Pre-scan graph only for identification purpose.

|                               |                                    |
|-------------------------------|------------------------------------|
| Frequency band investigated:  | 30MHz-1GHz                         |
| Unit :                        | dBμV/m                             |
| RBW :                         | 100kHz                             |
| Antenna polarization :        | Horizontal                         |
| Voltage:                      | 7.4V DC                            |
| Limit:                        | 15.109, 15.209 / ICES-003, RSS-Gen |
| Measurement detector:         | Peak                               |
| Wide Measurement Uncertainty: | ± 5dB (k=2)                        |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Vertical / Game with Receive Mode)

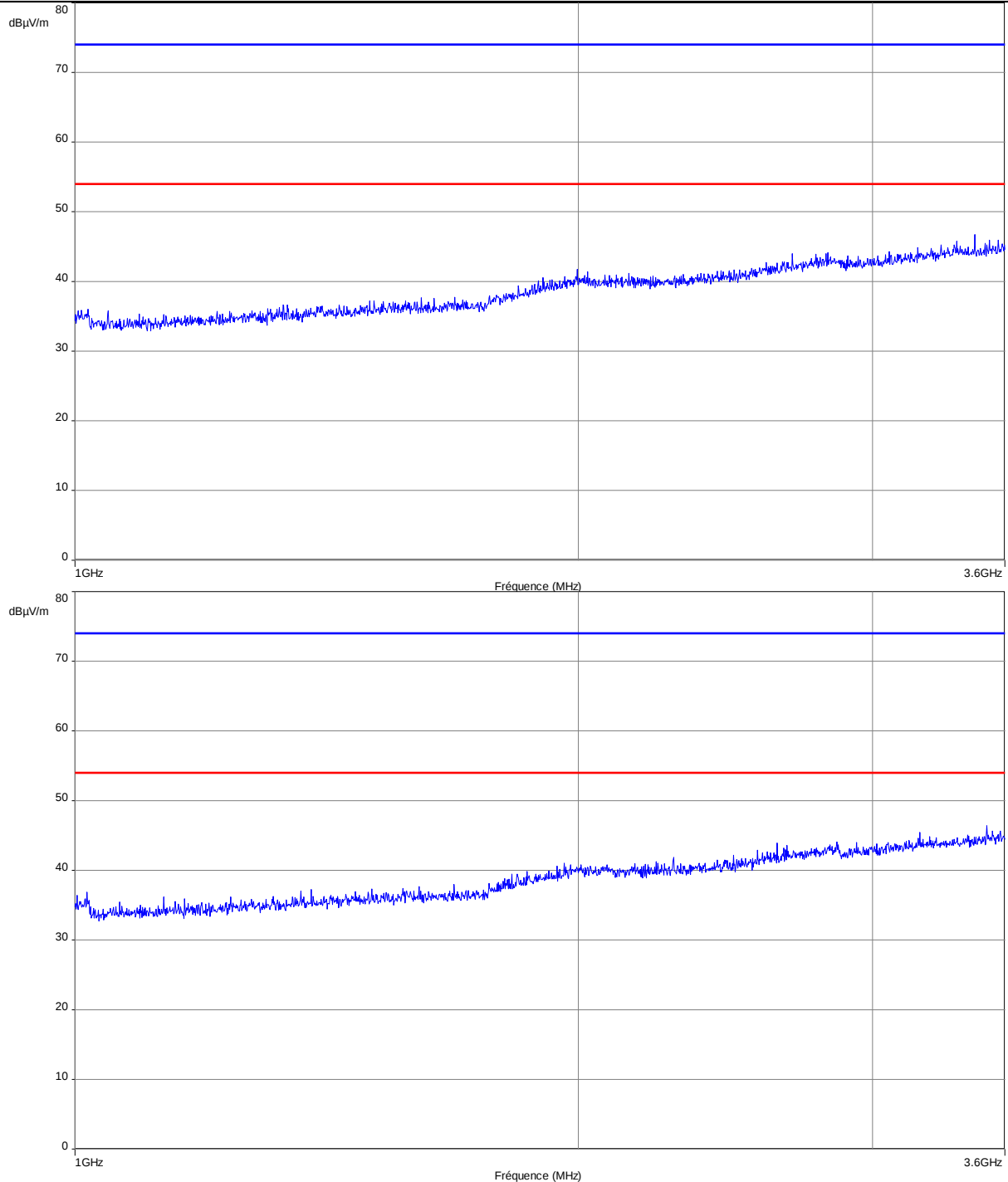


| Frequency (MHz) | Peak Level (dBμV/m) |
|-----------------|---------------------|
| 244.133         | 40.9                |
| 256.002         | 41.2                |
| 366.163         | 40.2                |
| 427.123         | 43.4                |
| 488.173         | 45.6                |

Note: Pre-scan graph only for identification purpose.

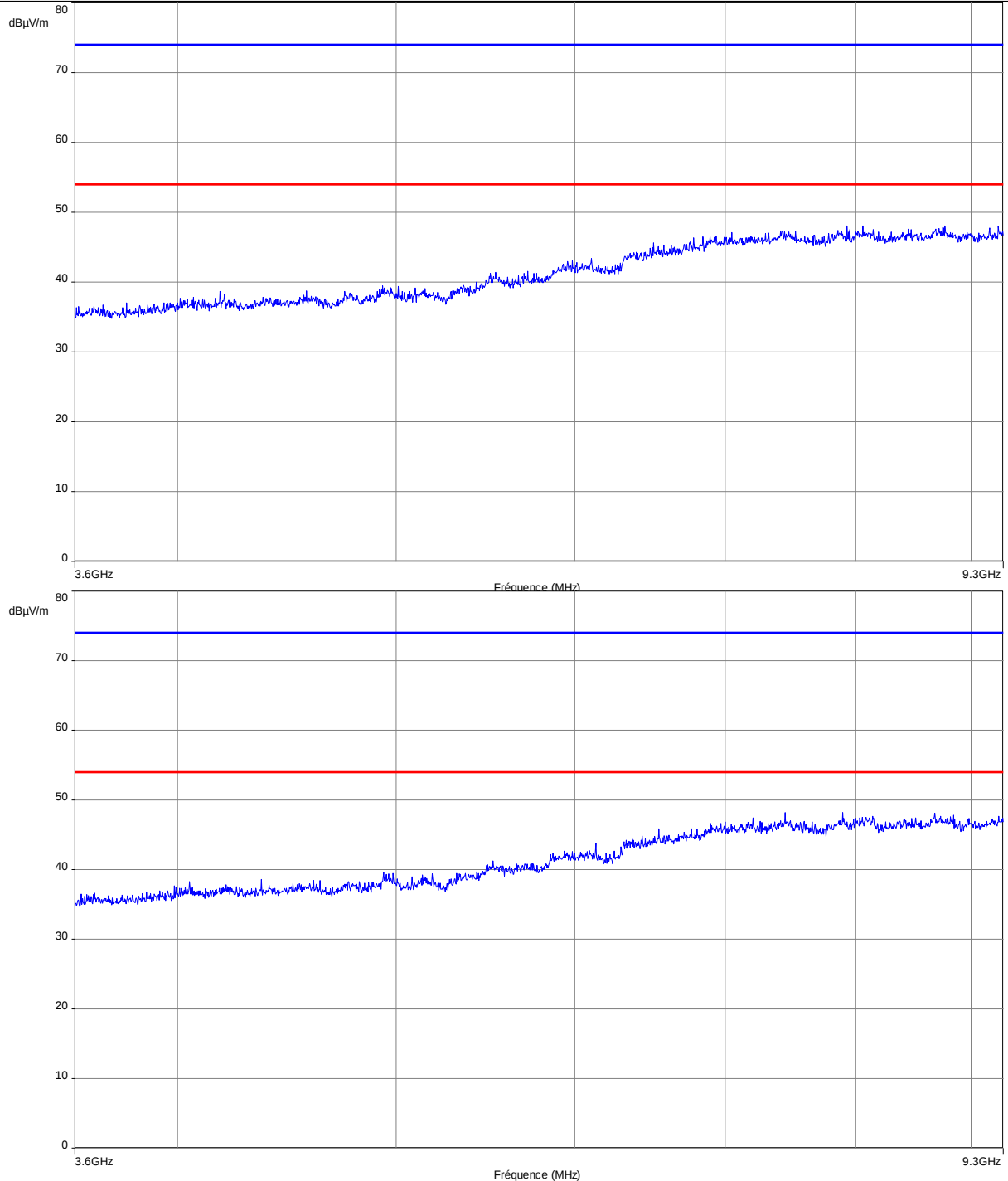
|                               |                                    |
|-------------------------------|------------------------------------|
| Frequency band investigated:  | 30MHz-1GHz                         |
| Unit :                        | dBμV/m                             |
| RBW :                         | 100kHz                             |
| Antenna polarization :        | Vertical                           |
| Voltage:                      | 7.4V DC                            |
| Limit:                        | 15.109, 15.209 / ICES-003, RSS-Gen |
| Measurement detector:         | Peak                               |
| Wide Measurement Uncertainty: | ± 5dB (k=2)                        |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 1GHz-3.6GHz / 3m / Horizontal & Vertical / Game with Receive Mode)



|                               |                                    |
|-------------------------------|------------------------------------|
| Frequency band investigated:  | 1GHz-3.6GHz                        |
| Unit :                        | dBμV/m                             |
| RBW :                         | 1MHz                               |
| Antenna polarization :        | Horizontal & Vertical              |
| Voltage:                      | 7.4V DC                            |
| Limit:                        | 15.109, 15.209 / ICES-003, RSS-Gen |
| Measurement detector:         | Peak                               |
| Wide Measurement Uncertainty: | ± 5dB (k=2)                        |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 3.6GHz-9.3GHz / 3m / Horizontal & Vertical / Receive Mode)



|                               |                                    |
|-------------------------------|------------------------------------|
| Frequency band investigated:  | 3.6GHz-9.3GHz                      |
| Unit :                        | dBµV/m                             |
| RBW :                         | 1MHz                               |
| Antenna polarization :        | Horizontal & Vertical              |
| Voltage:                      | 7.4V DC                            |
| Limit:                        | 15.109, 15.209 / ICES-003, RSS-Gen |
| Measurement detector:         | Peak                               |
| Wide Measurement Uncertainty: | ± 5dB (k=2)                        |

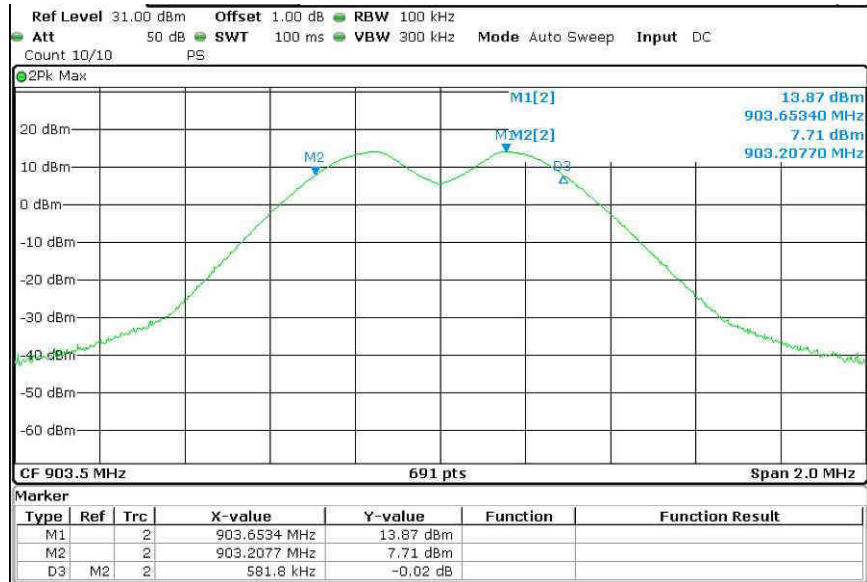
## 9. 6dB Bandwidth

| TEST: DTS Bandwidth                                                                                                                                                                                                                                                                                                                                                                         |                                    |                 | Verdict |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------|---------|
| <u>Method:</u> RF Output of EUT is connected directly to a spectrum analyser. A conducted measurement is performed.<br>The RBW is 100kHz, with VBW ≥ 3 x RBW.<br>The SPAN is wide enough to capture all products of the modulation process.<br>A MaxHold Peak detector is used.<br>The tested equipment is set to transmit operation with modulation on lowest, middle and highest channel. |                                    |                 | Pass    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                      | Required prior to the test         | During the test |         |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                         | 10 to 40 °C                        | 20°C            |         |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                           | 10 to 90 %                         | 55%             |         |
| Limits – FCC Part 15.247 (a) / RSS-247 5.2 (1)                                                                                                                                                                                                                                                                                                                                              |                                    |                 |         |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                             | Level for Bandwidth                | Limit           |         |
| 903.5                                                                                                                                                                                                                                                                                                                                                                                       | 6dB below the maximum output power | At least 500kHz |         |
| 914.5                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                 |         |
| 926.5                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                 |         |
| Supplementary information:<br>Test location: SMEE<br>Test date: September 9 <sup>th</sup> , 2016 by J. Blancher<br>Power supply voltage: 7.4V from battery (fully charged)                                                                                                                                                                                                                  |                                    |                 |         |

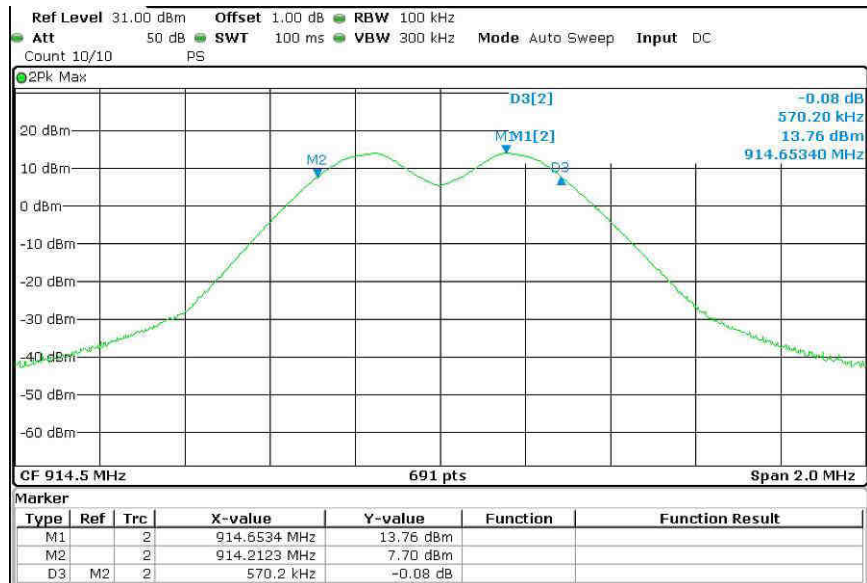
| Test Equipment Used |               |           |             |           |          |
|---------------------|---------------|-----------|-------------|-----------|----------|
| Description         | Manufacturer  | Model     | Identifier  | Cal. Date | Cal. Due |
| Measuring Rec.      | Rohde&Schwarz | ESRP      | REC-151-002 | 2015/7    | 2018/7   |
| RF cable            | Pasternack    | PE354-150 | CAB-131-025 | 2016/3    | 2017/3   |

| Tabulated Results for Occupied Bandwidth |                     |        |
|------------------------------------------|---------------------|--------|
| Frequency (MHz)                          | 6dB Bandwidth (kHz) | Result |
| 903.5                                    | 581.8 kHz           | Pass   |
| 914.5                                    | 570.2 kHz           | Pass   |
| 926.5                                    | 570.2 kHz           | Pass   |

## Graphical representation of 6dB Bandwidth



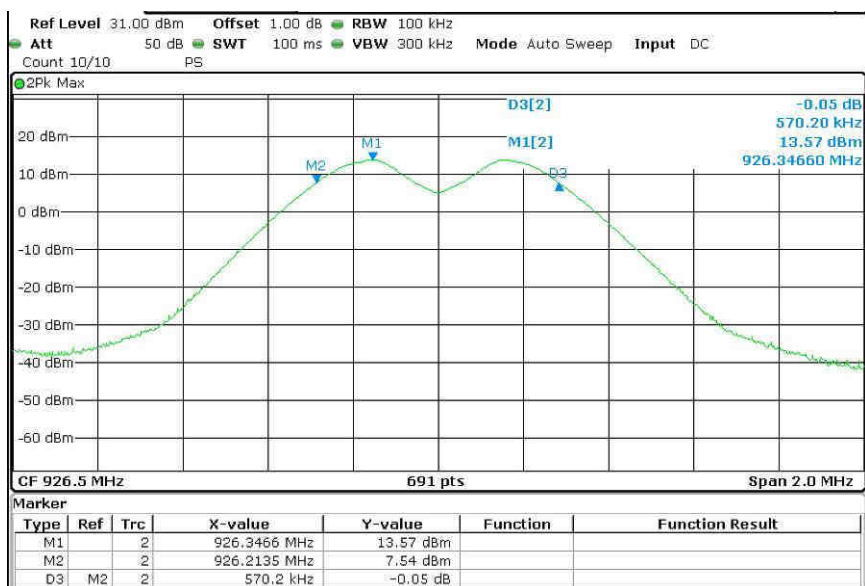
Low channel



Mid channel

|                              |                  |
|------------------------------|------------------|
| Frequency band investigated: | 902MHz to 928MHz |
| RBW :                        | 100kHz           |
| Measurement detector:        | Peak             |

## Graphical representation of 6dB Bandwidth



High channel

|                              |                  |
|------------------------------|------------------|
| Frequency band investigated: | 902MHz to 928MHz |
| RBW :                        | 100kHz           |
| Measurement detector:        | Peak             |

## 10. Maximum Peak Output power

| TEST: Maximum peak conducted output power                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |                 | Verdict |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------|
| <p>Method: RF Output of EUT is wired directly to a spectrum analyser. A conducted measurement is performed.</p> <p>The RBW is 1MHz (&gt; DTS Bandwidth), with VBW ≥ 3 x RBW.</p> <p>The SPAN is wide enough to capture all products of the modulation process.</p> <p>A MaxHold Peak detector is used.</p> <p>Radiated field strength of RF Output Power is measured at 3m on Open Area Test Site</p> <p>The tested equipment is set to transmit operation with modulations on lowest, middle and highest channel</p> |                             |                 | Pass    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Required prior to the test  | During the test |         |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 to 40 °C                 | 25°C            |         |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 to 90 %                  | 50%             |         |
| Limits – FCC Part 15.247 (b) / RSS-247 §5.4 (4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                 |         |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limits (dBµV/m)             |                 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Level / Detector / Distance | Results         |         |
| 902 to 928MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 36 dBm / Pk / 3m (Radiated) | Pass            |         |
| 902 to 928MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30 dBm / Pk (Conducted)     | Pass            |         |
| <p>Supplementary information:</p> <p>Test location: SMEE</p> <p>Test date: September 8<sup>th</sup>, 2016 by J. Blancher</p> <p>Power supply voltage: 7.4V from battery (fully charged)</p>                                                                                                                                                                                                                                                                                                                           |                             |                 |         |

| Test Equipment Used  |                |           |             |           |          |
|----------------------|----------------|-----------|-------------|-----------|----------|
| Description          | Manufacturer   | Model     | Identifier  | Cal. Date | Cal. Due |
| Measuring Rec.       | Rohde&Schwarz  | ESRP      | REC-151-002 | 2015/7    | 2018/7   |
| Log-periodic antenna | TDK            | PLP3003   | ANT-101-001 | 2016/8    | 2017/8   |
| RF cable             | Div            | OATS/25m  | CAB-101-017 | 2016/3    | 2017/3   |
| RF cable             | Pasternack     | PE354-150 | CAB-131-025 | 2016/3    | 2017/3   |
| OATS                 | Div            | 3 / 10m   | SIT-101-001 | 2016/8    | 2017/8   |
| Antenna mast         | Innco- Systems | MA4000EP  | MAT-101-001 | -         | -        |
| Turntable            | Innco- Systems | DS1200S   | PLA-101-001 | -         | -        |

| Tabulated Results for Maximum peak output power (Radiated measurement) |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |             |
|------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|
| FREQ                                                                   | Field Strength 3m | Calculated EIRP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit | Result      |
| (MHz)                                                                  | (dBμV/m)          | (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (dBm) |             |
| 903.5                                                                  | 106.4             | <b>6.4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36.0  | <b>Pass</b> |
| 914.5                                                                  | 106.9             | <b>6.9</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36.0  | <b>Pass</b> |
| 926.5                                                                  | 106.5             | <b>6.5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36.0  | <b>Pass</b> |
| RBW:                                                                   |                   | 1MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |
| Measurement distance:                                                  |                   | 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |             |
| Limit:                                                                 |                   | FCC Part 15.247 / RSS-247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |             |
| Final measurement detector:                                            |                   | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |
| Wide Measurement Uncertainty:                                          |                   | ± 5.2dB (k=2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |             |
| RESULT:                                                                |                   | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |             |
| Note:                                                                  |                   | <p>(1): The field strength (level) is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation is as follow:<br/> <math display="block">FS = RA + AF + CF - AG</math>           Where FS = Field Strength<br/>           RA = Receiver Amplitude<br/>           AF = Antenna Factor<br/>           CF = Cable Factor<br/>           AG = Amplifier Gain<br/>           Total factor (dB) is AF + CF – AG<br/>           Margin value = Emission level – Limit value<br/>           (2): EIRP is calculated using the following equation:<br/> <math display="block">EIRP = E + 20 \log(D) - 104.8 - GR</math>           Where EIRP = Equivalent Isotropic Radiated Power in dBm<br/>           E = Electric field strength in dBμV/m<br/>           D = Measuring distance in meter<br/>           GR = Ground reflection in dB (4.7dB for 30MHz – 1GHz band)<br/>           (3): Test performed on OATS at 3m distance</p> |       |             |

| Tabulated Results for Maximum peak output power (Conducted) |                          |                           |             |
|-------------------------------------------------------------|--------------------------|---------------------------|-------------|
| FREQ                                                        | Measured conducted power | Limit                     | Result      |
| (MHz)                                                       | (dBm)                    | (dBm)                     |             |
| 903.5                                                       | <b>13.9</b>              | 30.0                      | <b>Pass</b> |
| 914.5                                                       | <b>13.8</b>              | 30.0                      | <b>Pass</b> |
| 926.5                                                       | <b>13.6</b>              | 30.0                      | <b>Pass</b> |
| RBW:                                                        |                          | 1MHz                      |             |
| Limit:                                                      |                          | FCC Part 15.247 / RSS-247 |             |
| Final measurement detector:                                 |                          | Peak                      |             |
| RESULT:                                                     |                          | PASS                      |             |

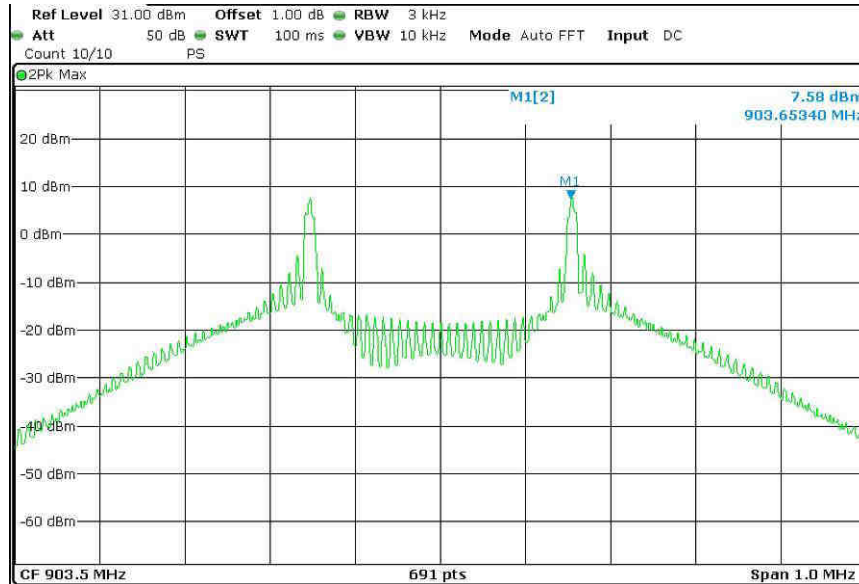
## 11. Maximum Power Spectral Density

| TEST: Maximum Power Spectral Density level in the fundamental emission                                                                                                                                                                                                                             |                             |                 | Verdict |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------|
| Method: RF Output of EUT is wired directly to a spectrum analyser. A conducted measurement is performed.<br>The RBW is 3kHz.<br>The SPAN is 1MHz.<br>A MaxHold Peak detector is used.<br>The tested equipment is set to transmit operation with modulations on lowest, middle and highest channel. |                             |                 | Pass    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                             | Required prior to the test  | During the test |         |
| Ambient Temperature                                                                                                                                                                                                                                                                                | 10 to 40 °C                 | 20°C            |         |
| Relative Humidity                                                                                                                                                                                                                                                                                  | 10 to 90 %                  | 55%             |         |
| Limits – FCC Part 15.247 (e) / RSS-247 §5.2 (2)                                                                                                                                                                                                                                                    |                             |                 |         |
| Frequency (MHz)                                                                                                                                                                                                                                                                                    | Level / Detector            | Limit           |         |
| 903.5                                                                                                                                                                                                                                                                                              | 8 dBm/3kHz / Pk (Conducted) | Pass            |         |
| 914.5                                                                                                                                                                                                                                                                                              |                             |                 |         |
| 926.5                                                                                                                                                                                                                                                                                              |                             |                 |         |
| Supplementary information:<br>Test location: SMEE<br>Test date: September 9 <sup>th</sup> , 2016 by J. Blancher<br>Power supply voltage: 7.4V from battery (fully charged)                                                                                                                         |                             |                 |         |

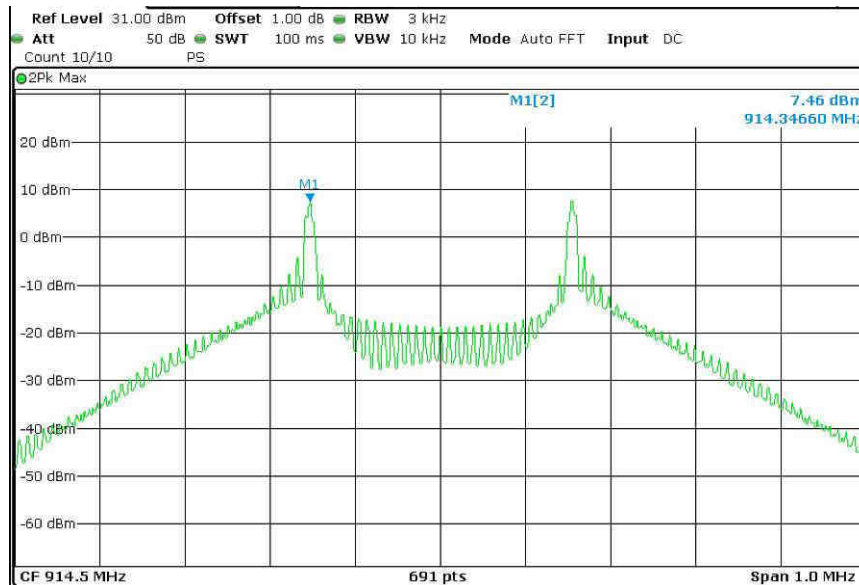
| Test Equipment Used |               |           |             |           |          |
|---------------------|---------------|-----------|-------------|-----------|----------|
| Description         | Manufacturer  | Model     | Identifier  | Cal. Date | Cal. Due |
| Measuring Rec.      | Rohde&Schwarz | ESRP      | REC-151-002 | 2015/7    | 2018/7   |
| RF cable            | Pasternack    | PE354-150 | CAB-131-025 | 2016/3    | 2017/3   |

| Tabulated Results for Maximum Power Spectral Density |                |        |
|------------------------------------------------------|----------------|--------|
| Frequency (MHz)                                      | PSD (dBm/3kHz) | Result |
| 903.5                                                | 7.6 dBm/3kHz   | Pass   |
| 914.5                                                | 7.5 dBm/3kHz   | Pass   |
| 926.5                                                | 7.4 dBm/3kHz   | Pass   |

## Graphical representation of Power Spectral Density



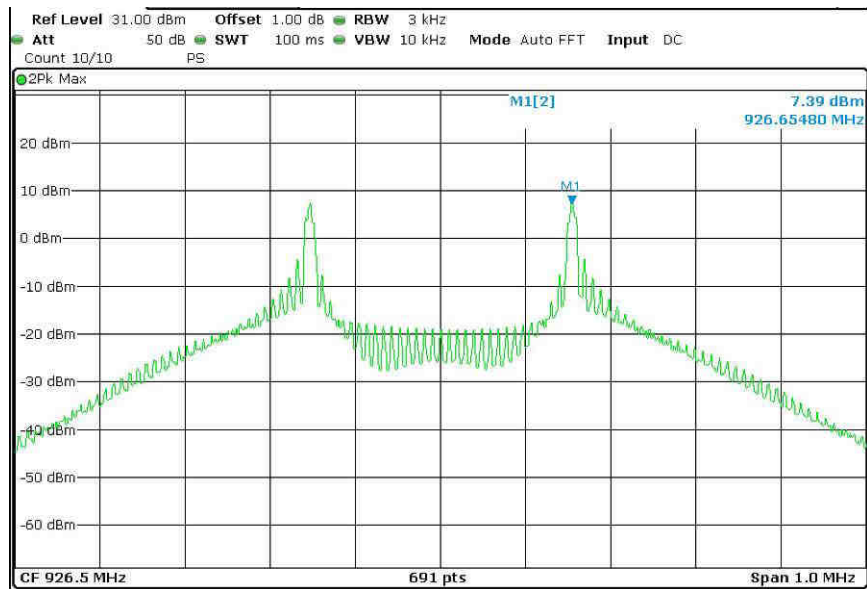
Low channel



Mid channel

|                              |                  |
|------------------------------|------------------|
| Frequency band investigated: | 902MHz to 928MHz |
| RBW :                        | 3kHz             |
| Measurement detector:        | Peak             |

## Graphical representation of Power Spectral Density



High channel

|                              |                  |
|------------------------------|------------------|
| Frequency band investigated: | 902MHz to 928MHz |
| RBW :                        | 3kHz             |
| Measurement detector:        | Peak             |

## 12. Unwanted emissions in Non-Restricted Frequency bands

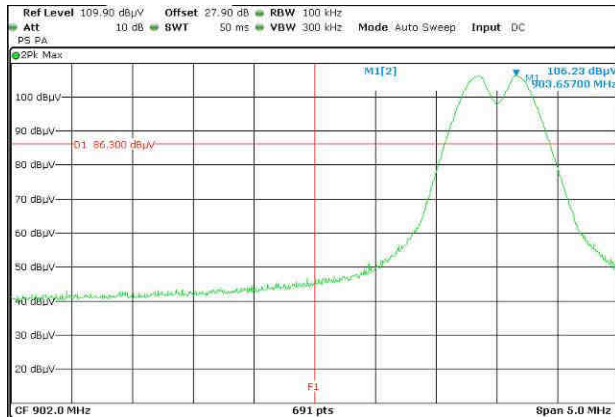
| TEST: Unwanted emissions in Non-Restricted Frequency Bands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                                   | Verdict |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------|---------|
| <p><u>Method:</u> Measurements were made in a 3-meter Open Area Test Site (OATS) that complies to ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (Peak) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.</p> <p>A pre-scan frequency identification of the EUT has been performed in full anechoic chamber. The measured radiated field of the EUT is realised at 3-meters of distance. Antenna is 1.25-meters high.</p> |                                      |                                   | Pass    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Required prior to the test           | During the test                   |         |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10 to 40 °C                          | 25°C                              |         |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10 to 90 %                           | 55%                               |         |
| Fully configured sample scanned over the following frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Frequency range on each side of line | Measurement Point                 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30MHz – 9.3GHz                       | 3 m measurement distance          |         |
| Limits – FCC Part 15.247 (d) / RSS-247 §5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      |                                   |         |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Limits (dBµV/m)                      |                                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Detector / Analyser RBW              | Limit                             | Results |
| 30 to 9300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pk / 100kHz                          | 20dB below the maximum Peak level | Pass    |
| Supplementary information:<br>Test location: SMEE<br>Test date: September 7 <sup>th</sup> , 2016 by J. Blancher<br>Power supply voltage: 7.4V from battery (fully charged)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                                   |         |

| Test Equipment Used  |                |           |             |           |          |
|----------------------|----------------|-----------|-------------|-----------|----------|
| Description          | Manufacturer   | Model     | Identifier  | Cal. Date | Cal. Due |
| Log-periodic antenna | TDK            | PLP3003   | ANT-101-001 | 2016/8    | 2017/8   |
| Biconnic antenna     | COM-POWER      | AB- 900   | ANT-101-003 | 2016/8    | 2017/8   |
| BiConiLog antenna    | EMCO           | 3142B     | ANT-101-010 | 2016/8    | 2017/8   |
| Horn antenna         | ETS-LINDGREN   | 3115      | ANT-141-013 | 2015/7    | 2018/7   |
| RF cable             | Div            | OATS/25m  | CAB-101-019 | 2016/3    | 2017/3   |
| RF cable             | Pasternack     | PE302-120 | CAB-131-024 | 2016/3    | 2017/3   |
| RF cable             | HUBER+SUHNER   | RG214U    | CAB-141-026 | 2016/3    | 2017/3   |
| RF cable             | HUBER+SUHNER   | RG214U    | CAB-141-029 | 2016/3    | 2017/3   |
| RF cable             | HUBER+SUHNER   | SF104     | CAB-141-030 | 2016/3    | 2017/3   |
| High-pass filter     | Mini-Circuit   | VHF-2700+ | FIL-151-005 | 2016/3    | 2017/3   |
| Pre-amplifier        | PE             | PE1524    | PRE-101-002 | 2016/3    | 2017/3   |
| Anechoic chamber     | COMTEST        | 214263    | CAG-141-001 | -         | -        |
| OATS                 | Div            | 10m       | SIT-101-001 | 2016/8    | 2017/8   |
| Antenna mast         | Innco- Systems | MA4000EP  | MAT-101-001 | -         | -        |
| Turntable            | Innco- Systems | DS1200S   | PLA-101-001 | -         | -        |
| Turntable            | Innco- Systems | CT0800    | PLA-141-001 | -         | -        |
| Measuring Rec        | Rohde&Schwarz  | ESRP      | REC-151-002 | 2015/7    | 2018/7   |
| Spectrum analyzer    | AGILENT HP     | 8563E     | ASP-111-003 | 2013/9    | 2016/9   |

| Tabulated Results for Peak Output Power Reference level |                                                                                                                                                                                              |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FREQ                                                    | Field Strength 3m                                                                                                                                                                            |
| (MHz)                                                   | (dBμV/m)                                                                                                                                                                                     |
| 903.5                                                   | 106.3                                                                                                                                                                                        |
| 914.5                                                   | 106.8                                                                                                                                                                                        |
| 926.5                                                   | 106.4                                                                                                                                                                                        |
| RBW:                                                    | 100kHz                                                                                                                                                                                       |
| Measurement distance:                                   | 3m                                                                                                                                                                                           |
| Limit:                                                  | Ref. level only – For 15.247 / RSS-247                                                                                                                                                       |
| Final measurement detector:                             | Peak                                                                                                                                                                                         |
| Wide Measurement Uncertainty:                           | ± 5.2dB (k=2)                                                                                                                                                                                |
| Note:                                                   | Only for identification of limit in non-restricted band<br>Limit is <b>86.3 dBμV/m</b> Peak for out-of-band frequencies in Non-Restricted bands (with a 100kHz RBW on the spectrum analyser) |

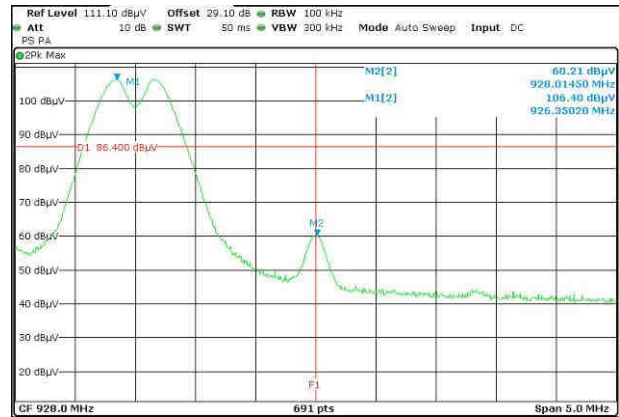
| Tabulated Results for Unwanted emissions in Non-Restricted bands |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|
| FREQ                                                             | Field Strength 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Limit    | Result      |
| (MHz)                                                            | (dBμV/m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (dBμV/m) | (dBμV/m)    |
| 1807.0                                                           | <b>48.8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| 1829.0                                                           | <b>50.4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| 1853.0                                                           | <b>51.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| 5487.0                                                           | <b>50.5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| 5559.0                                                           | <b>50.4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| 6324.5                                                           | <b>53.8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| 6401.5                                                           | <b>52.6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| 6485.5                                                           | <b>54.1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| 7228.0                                                           | <b>60.3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.3     | <b>Pass</b> |
| RBW:                                                             | 100kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |
| Measurement distance:                                            | 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |
| Limit:                                                           | For 15.247 / RSS-247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |
| Final measurement detector:                                      | Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |
| Wide Measurement Uncertainty:                                    | ± 5.2dB (k=2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |
| RESULT:                                                          | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |
| Notes:                                                           | <p>(1): The field strength (level) is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation is as follow:<br/> <math>FS = RA + AF + CF - AG</math><br/>           Where FS = Field Strength<br/>           RA = Receiver Amplitude<br/>           AF = Antenna Factor<br/>           CF = Cable Factor<br/>           AG = Amplifier Gain<br/>           Total factor (dB) is <math>AF + CF - AG</math><br/>           Margin value = Emission level – Limit value</p> <p>(2): Test performed on OATS at 3m distance</p> |          |             |

## Graphical representation of Band-edge compliance



### Low bandedge compliance

F1 = 902MHz  
Peak level at 902MHz is below 50dBμV/m (limit is 86.3dBμV/m)  
RESULT: PASS  
Note: Radiated measurement



### High bandedge compliance

F1 = 928MHz  
Peak level at 928MHz is 60.2dBμV/m (limit is 86.3dBμV/m)  
RESULT: PASS  
Note: Radiated measurement

## 13. Unwanted emissions in Restricted Frequency bands

| TEST: Unwanted emissions into Restricted Frequency Bands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | Verdict                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------|
| <p><u>Method:</u> Measurements were made in a 10 or 3-meter Open Area Test Site (OATS) that complies to ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (Peak, Quasi-peak, Average) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.</p> <p>A pre-scan frequency identification of the EUT has been performed in full anechoic chamber. The measured radiated field of the EUT is realised at 3-meters of distance. Antenna is 1.25-meters high.</p> |                                      | Pass                      |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Required prior to the test           | During the test           |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 to 40 °C                          | 25°C                      |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 to 90 %                           | 55%                       |
| Fully configured sample scanned over the following frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Frequency range on each side of line | Measurement Point         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9kHz – 30MHz                         | 10 m measurement distance |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30MHz – 9.3GHz                       | 3 m measurement distance  |
| <b>Limits – FCC Part 15.205, 15.209 (a), 15.247 (d) / RSS-GEN §8.9, §8.10, RSS-247 §5.5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                           |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Limits (dBµV/m)                      |                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Level / Detector / Distance          | Results                   |
| 0.009 to 0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 107.6 to 72.9 / QP / 10m             | Pass                      |
| 0.490 to 1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 52.9 to 42.1 / QP / 10m              | Pass                      |
| 1.705 to 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 48.6 / QP / 10m                      | Pass                      |
| 30 to 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 40.0 / QP / 3m                       | Pass                      |
| 88 to 216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 43.5 / QP / 3m                       | Pass                      |
| 216 to 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 46.0 / QP / 3m                       | Pass                      |
| 960-1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 54.0 / QP / 3m                       | Pass                      |
| Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 54.0 / AV / 3m<br>74.0 / PK / 3m     | Pass                      |
| <p>Supplementary information:</p> <p>Test location: SMEE</p> <p>Test date: September 7<sup>th</sup>, 2016 by J. Blancher</p> <p>Power supply voltage: 7.4V from battery (fully charged)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                           |

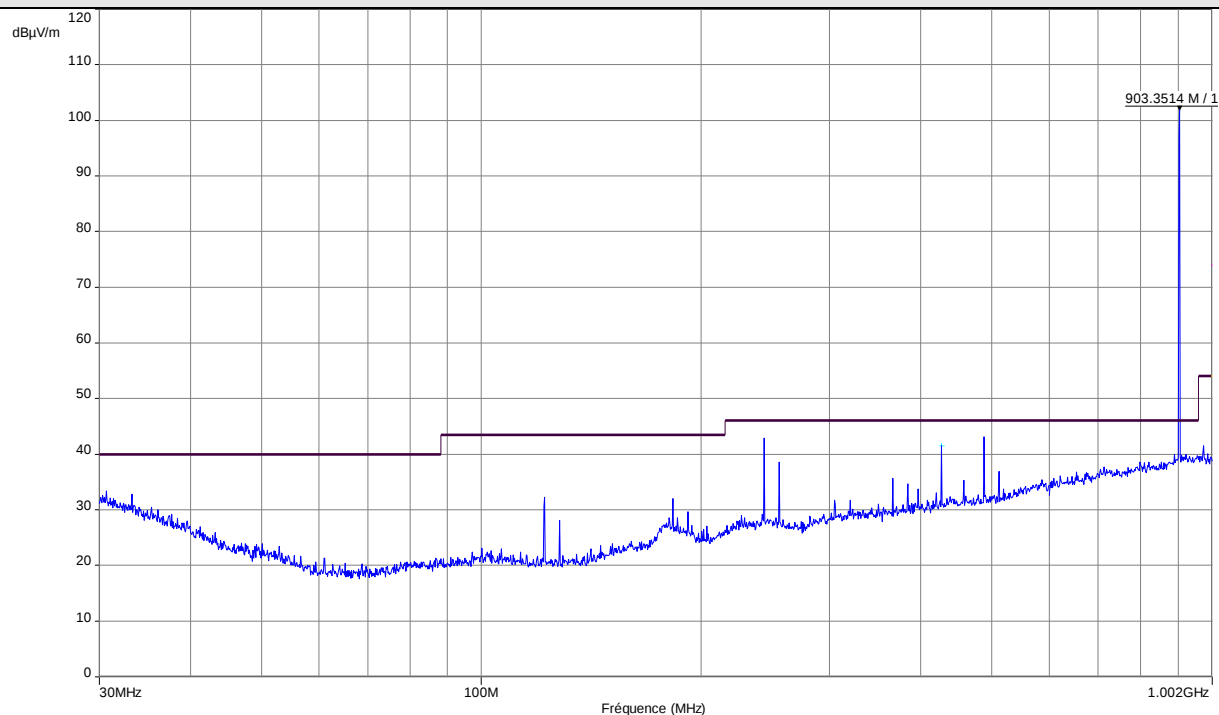
| Test Equipment Used  |                |           |             |           |          |
|----------------------|----------------|-----------|-------------|-----------|----------|
| Description          | Manufacturer   | Model     | Identifier  | Cal. Date | Cal. Due |
| Log-periodic antenna | TDK            | PLP3003   | ANT-101-001 | 2016/8    | 2017/8   |
| Biconnic antenna     | COM-POWER      | AB- 900   | ANT-101-003 | 2016/8    | 2017/8   |
| BiConiLog antenna    | EMCO           | 3142B     | ANT-101-010 | 2016/8    | 2017/8   |
| Horn antenna         | ETS-LINDGREN   | 3115      | ANT-141-013 | 2015/7    | 2018/7   |
| RF cable             | Div            | OATS/25m  | CAB-101-019 | 2016/3    | 2017/3   |
| RF cable             | Pasternack     | PE302-120 | CAB-131-024 | 2016/3    | 2017/3   |
| RF cable             | HUBER+SUHNER   | RG214U    | CAB-141-026 | 2016/3    | 2017/3   |
| RF cable             | HUBER+SUHNER   | RG214U    | CAB-141-029 | 2016/3    | 2017/3   |
| RF cable             | HUBER+SUHNER   | SF104     | CAB-141-030 | 2016/3    | 2017/3   |
| High-pass filter     | Mini-Circuit   | VHF-2700+ | FIL-151-005 | 2016/3    | 2017/3   |
| Pre-amplifier        | PE             | PE1524    | PRE-101-002 | 2016/3    | 2017/3   |
| Anechoic chamber     | COMTEST        | 214263    | CAG-141-001 | -         | -        |
| OATS                 | Div            | 10m       | SIT-101-001 | 2016/8    | 2017/8   |
| Antenna mast         | Innco- Systems | MA4000EP  | MAT-101-001 | -         | -        |
| Turntable            | Innco- Systems | DS1200S   | PLA-101-001 | -         | -        |
| Turntable            | Innco- Systems | CT0800    | PLA-141-001 | -         | -        |
| Measuring Rec        | Rohde&Schwarz  | ESRP      | REC-151-002 | 2015/7    | 2018/7   |
| Spectrum analyzer    | AGILENT HP     | 8563E     | ASP-111-003 | 2013/9    | 2016/9   |

| Tabulated Results for Unwanted emissions (9kHz-30MHz)                                                                    |                |                                                                                                                                                                                               |        |               |             |                    |
|--------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------|-------------|--------------------|
| FREQ                                                                                                                     | RF field @ 30m | Limit @ 30m                                                                                                                                                                                   | Margin | Antenna angle | Table angle | Correc. Fact. (CF) |
| MHz                                                                                                                      | (QP) dBμV/m    | (QP) dBμV/m                                                                                                                                                                                   | dB     | Degree        | Degree      | dB                 |
| Margin > 10dB                                                                                                            |                |                                                                                                                                                                                               |        |               |             |                    |
| Supplementary information:<br>Frequency list measured on the Open Area Test Site has been created with pre-scan results. |                |                                                                                                                                                                                               |        |               |             |                    |
| <b>Frequency band investigated:</b>                                                                                      |                | 9kHz-30MHz                                                                                                                                                                                    |        |               |             |                    |
| <b>RBW:</b>                                                                                                              |                | 200Hz (9kHz-150kHz)                                                                                                                                                                           |        |               |             |                    |
|                                                                                                                          |                | 9kHz (150kHz-30MHz)                                                                                                                                                                           |        |               |             |                    |
| <b>Measurement distance:</b>                                                                                             |                | 10m                                                                                                                                                                                           |        |               |             |                    |
| <b>Limit:</b>                                                                                                            |                | FCC Part 15.205, 15.209, 15.247 / RSS-Gen, RSS-247                                                                                                                                            |        |               |             |                    |
| <b>Final measurement detector:</b>                                                                                       |                | Quasi-Peak                                                                                                                                                                                    |        |               |             |                    |
| <b>Wide Measurement Uncertainty:</b>                                                                                     |                | ± 5 dB (k=2)                                                                                                                                                                                  |        |               |             |                    |
| <b>Note:</b>                                                                                                             |                | CF: Correction factor = Antenna factor + Cable loss<br>* <sup>1</sup> : Measure have been done at 10m distance and corrected according to requirements of 15.209.e)<br>(M@30m = M@10m-19.1dB) |        |               |             |                    |

| Tabulated Results for Unwanted emissions (30MHz-1GHz)                                                                    |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |             |     |                |             |             |             |
|--------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-------------|-----|----------------|-------------|-------------|-------------|
| FREQ                                                                                                                     | Meter reading | Meter reading                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CF total | Field level | Field level | Pol | Antenna height | Table angle | Limit       | Margin      |
| MHz                                                                                                                      | (QP) dBμV     | (Pk) dBμV                                                                                                                                                                                                                                                                                                                                                                                                                                                        | dB       | (QP) dBμV/m | (Pk) dBμV/m |     | cm             | Degré       | (QP) dBμV/m | dB          |
| 244,083                                                                                                                  | 22,3          | 26,5                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 18,8     | <b>41,1</b> | 45,3        | H   | 120            | 30          | 46,0        | <b>-4,9</b> |
| Supplementary information:<br>Frequency list measured on the Open Area Test Site has been created with pre-scan results. |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |             |     |                |             |             |             |
| <b>Frequency band investigated:</b>                                                                                      |               | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |             |     |                |             |             |             |
| <b>RBW:</b>                                                                                                              |               | 120kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |             |     |                |             |             |             |
| <b>Measurement distance:</b>                                                                                             |               | 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |             |     |                |             |             |             |
| <b>Limit:</b>                                                                                                            |               | FCC Part 15.205, 15.209, 15.247 / RSS-Gen, RSS-247                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |             |     |                |             |             |             |
| <b>Final measurement detector:</b>                                                                                       |               | Quasi-Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |             |     |                |             |             |             |
| <b>Wide Measurement Uncertainty:</b>                                                                                     |               | ± 5.2dB (k=2)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |             |     |                |             |             |             |
| <b>RESULT:</b>                                                                                                           |               | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |             |     |                |             |             |             |
| <b>Field Strength Calculation:</b>                                                                                       |               | <p>The field strength (level) is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation is as follow:</p> $FS = RA + AF + CF - AG$ <p>Where FS = Field Strength<br/> RA = Receiver Amplitude<br/> AF = Antenna Factor<br/> CF = Cable Factor<br/> AG = Amplifier Gain</p> <p>Total factor (dB) is AF + CF – AG<br/> Margin value = Emission level – Limit value</p> |          |             |             |     |                |             |             |             |

| Tabulated Results for Unwanted emissions<br>(1GHz-9.3GHz) |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |        |
|-----------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|
| FREQ<br>(MHz)                                             | Field level<br>dBμV/m | Detector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Limit<br>(dBμV/m) | Result |
| 2710.5                                                    | 55.3                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 2710.5                                                    | 47.0                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 2743.5                                                    | 55.3                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 2743.5                                                    | 46.9                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 2779.5                                                    | 54.1                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 2779.5                                                    | 45.8                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 3614.0                                                    | 48.1                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| 3658.0                                                    | 48.5                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| 3706.0                                                    | 47.1                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| 4517.5                                                    | 61.2                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 4517.5                                                    | 45.6                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 4572.5                                                    | 63.1                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 4572.5                                                    | 49.8                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 4632.5                                                    | 65.2                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 4632.5                                                    | 52.2                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 5421.0                                                    | 49.4                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| 7316.0                                                    | 60.2                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 7316.0                                                    | 46.4                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 7412.0                                                    | 60.6                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 7412.0                                                    | 47.6                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 8131.5                                                    | 54.9                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74                | Pass   |
| 8131.5                                                    | 44.2                  | Av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                | Pass   |
| 8230.5                                                    | 53.5                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| 8338.5                                                    | 53.0                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| 9035.0                                                    | 52.2                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| 9145.0                                                    | 51.7                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| 9265.0                                                    | 52.0                  | Pk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74 Pk / 54 Av     | Pass   |
| RBW / VBW                                                 |                       | 1MHz / 3MHz (Peak)<br>1MHz / 10Hz (AV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |        |
| Measurement distance:                                     |                       | 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |        |
| Limit:                                                    |                       | FCC Part 15.205, 15.209, 15.247 / RSS-Gen, RSS-247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |        |
| Final measurement detector:                               |                       | Peak / Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |        |
| Wide Measurement Uncertainty:                             |                       | ± 5.2dB (k=2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |        |
| RESULT:                                                   |                       | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |        |
| Notes:                                                    |                       | <p>(1): The field strength (level) is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation is as follow:<br/> <math>FS = RA + AF + CF - AG</math><br/>           Where FS = Field Strength<br/>           RA = Receiver Amplitude<br/>           AF = Antenna Factor<br/>           CF = Cable Factor<br/>           AG = Amplifier Gain<br/>           Total factor (dB) is <math>AF + CF - AG</math><br/>           Margin value = Emission level – Limit value</p> <p>(2): Test performed on OATS at 3m distance</p> <p>(3): For peak measurement below average limit, no test performed with average detector.</p> |                   |        |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Horizontal / Transmit mode at 903.5MHz)

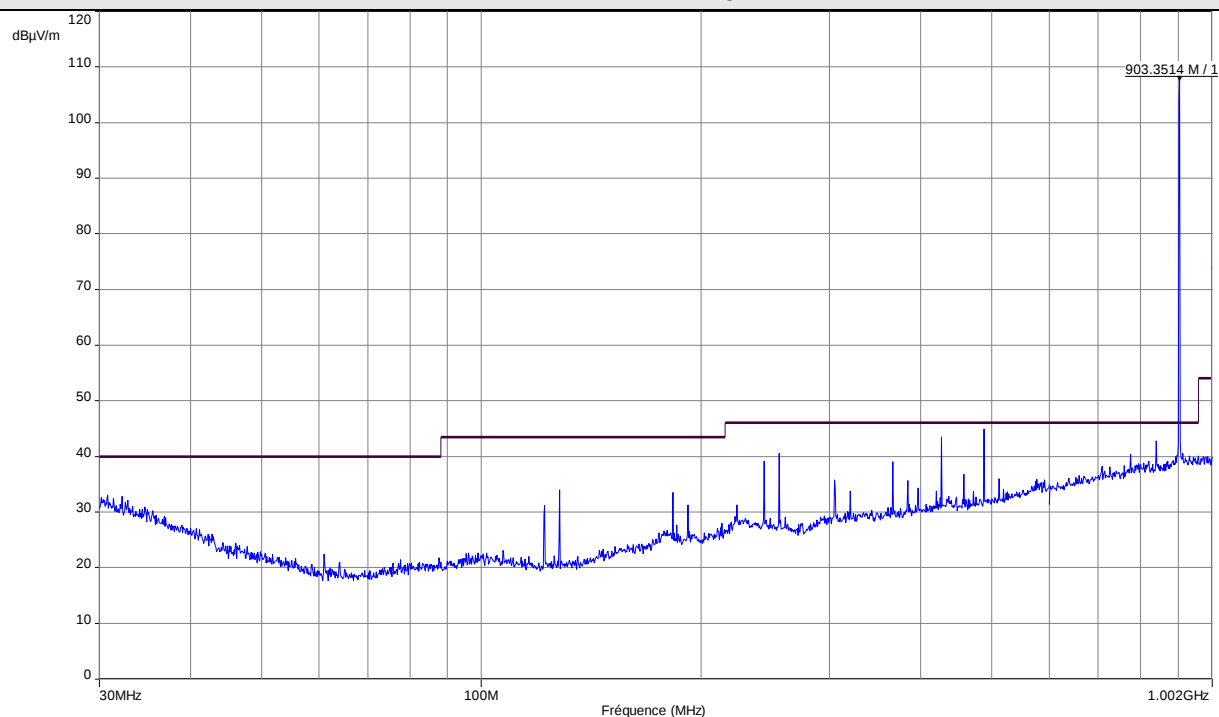


| Frequency<br>(MHz) | Peak Level<br>(dBμV/m) |
|--------------------|------------------------|
| 244.133            | 42.9                   |
| 256.002            | 38.6                   |
| 427.123            | 41.5                   |
| 488.215            | 43.0                   |

Note: Pre-scan graph only for identification purpose.

|                               |                  |
|-------------------------------|------------------|
| Frequency band investigated:  | 30MHz-1GHz       |
| Unit :                        | dBμV/m           |
| RBW :                         | 100kHz           |
| Antenna polarization :        | Horizontal       |
| Voltage:                      | 7.4V DC          |
| Limit:                        | 15.209 / RSS-Gen |
| Measurement detector:         | Peak             |
| Wide Measurement Uncertainty: | ± 5dB (k=2)      |

**Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Vertical / Transmit mode at 903.5MHz)**

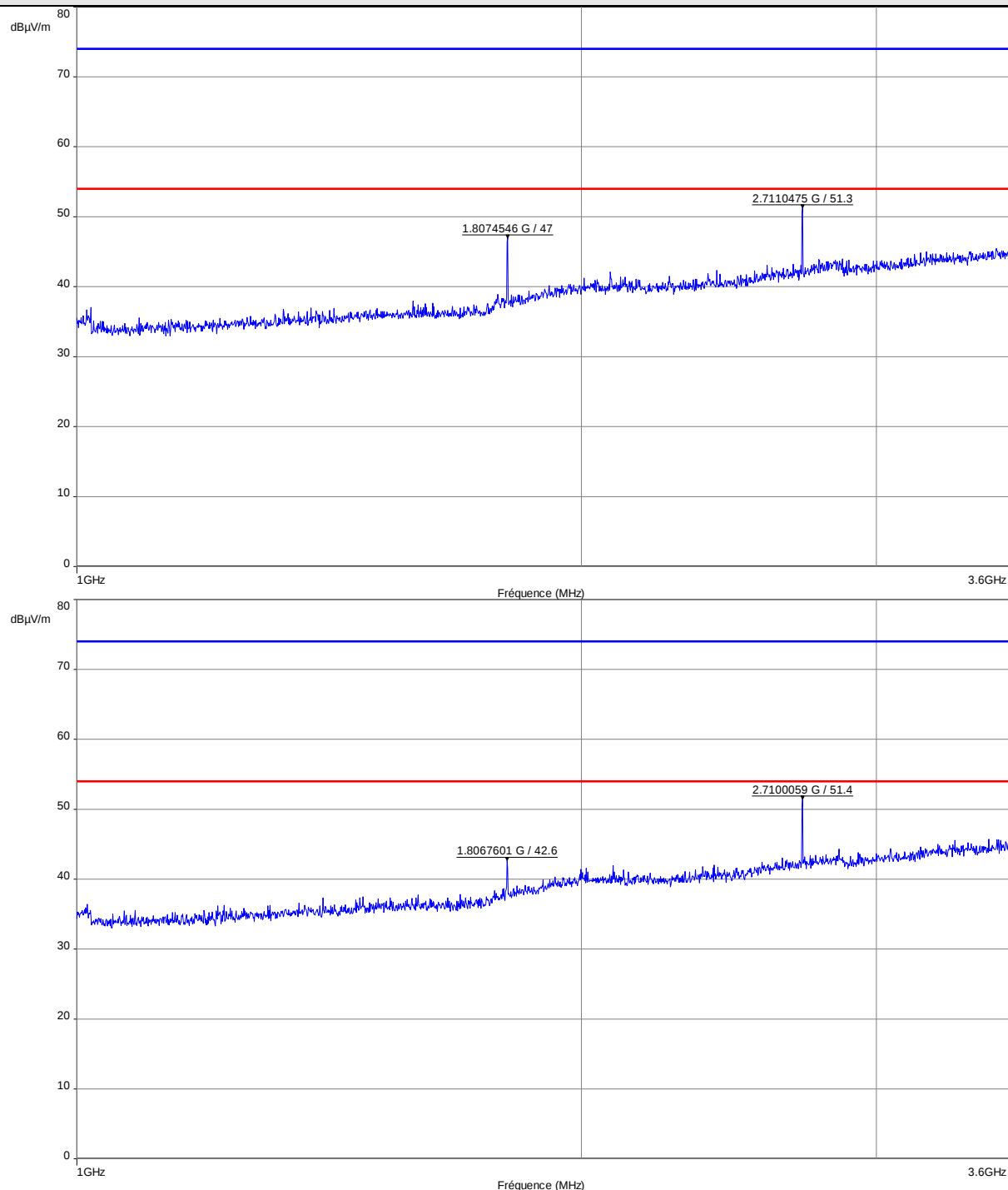


| Frequency<br>(MHz) | Peak Level<br>(dBμV/m) |
|--------------------|------------------------|
| 427.123            | 43.5                   |
| 488.173            | 44.9                   |
| 839.347            | 42.8                   |

Note: Pre-scan graph only for identification purpose.

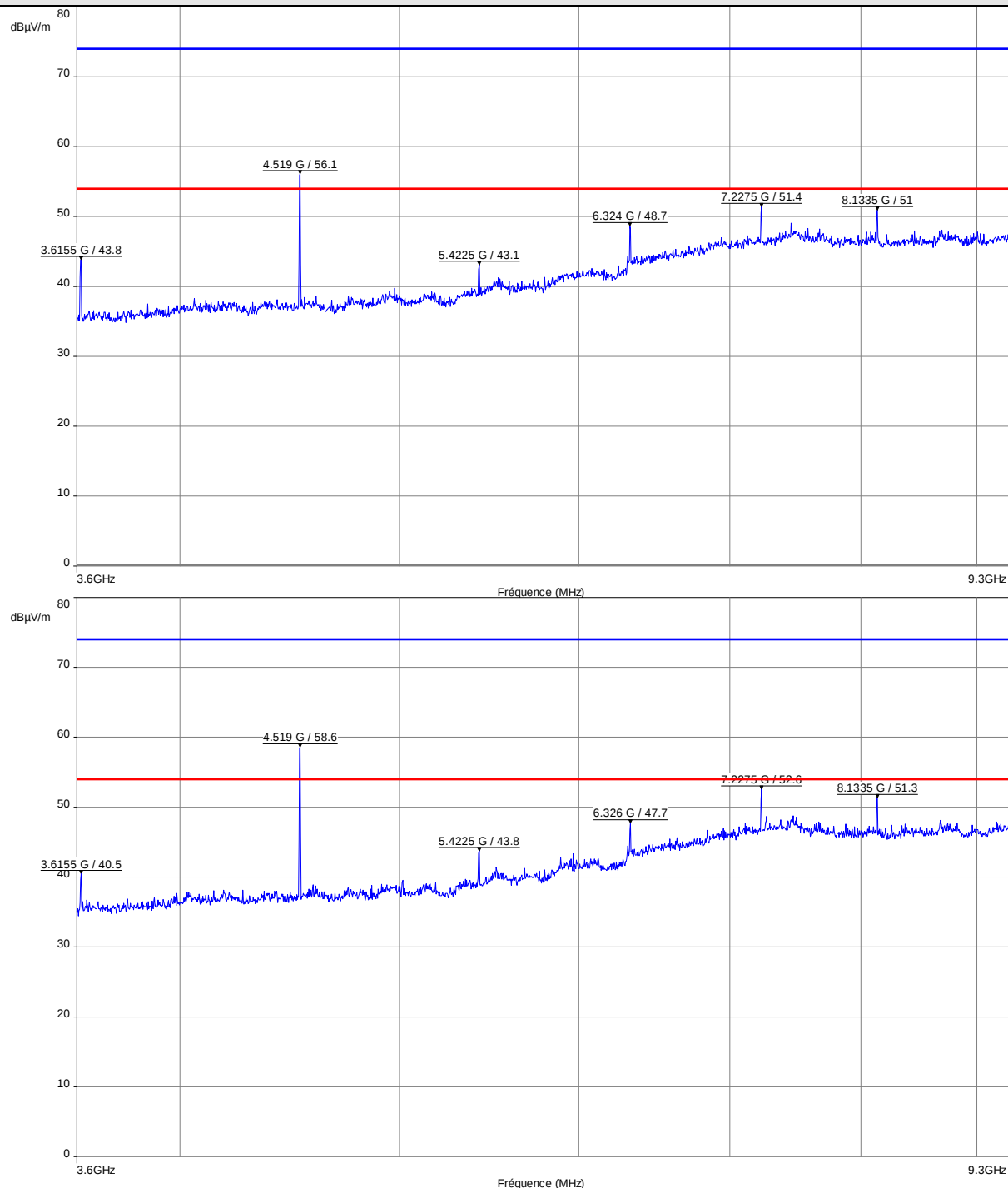
|                               |                  |
|-------------------------------|------------------|
| Frequency band investigated:  | 30MHz-1GHz       |
| Unit :                        | dBμV/m           |
| RBW :                         | 100kHz           |
| Antenna polarization :        | Vertical         |
| Voltage:                      | 7.4V DC          |
| Limit:                        | 15.209 / RSS-Gen |
| Measurement detector:         | Peak             |
| Wide Measurement Uncertainty: | ± 5dB (k=2)      |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 1GHz-3.6GHz / 3m / Horizontal & Vertical / Transmit mode at 903.5MHz)



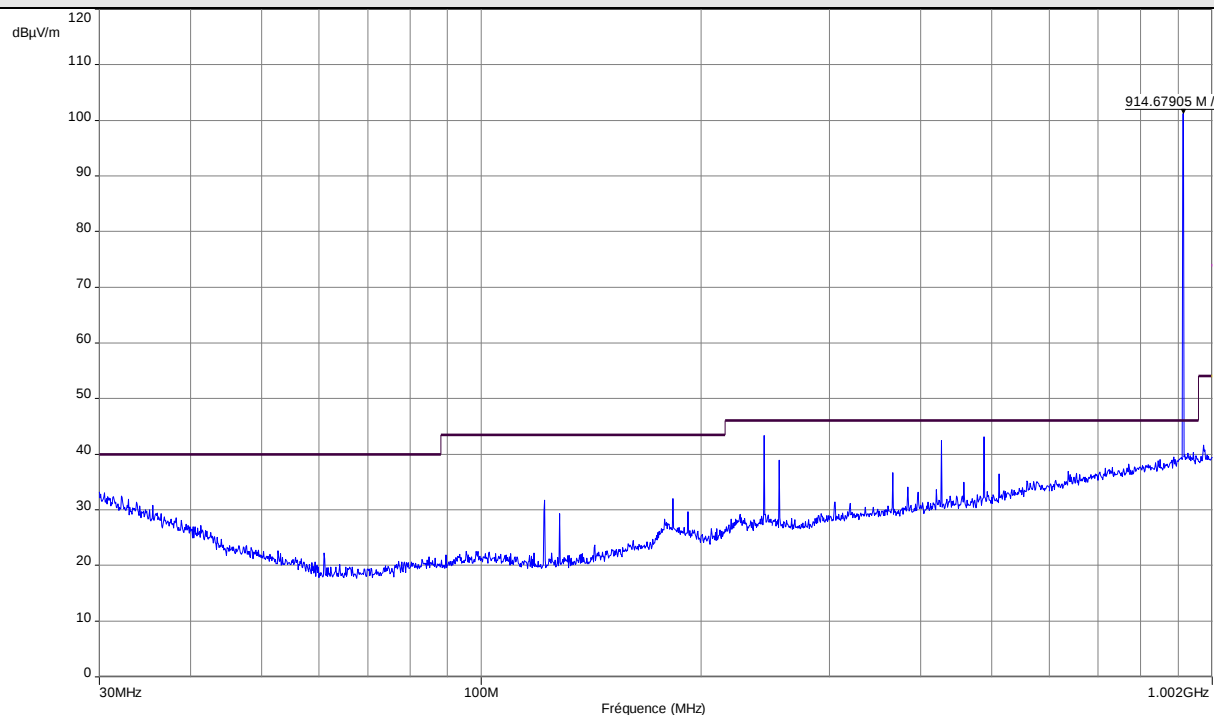
|                               |                       |
|-------------------------------|-----------------------|
| Frequency band investigated:  | 1GHz-3.6GHz           |
| Unit :                        | dBμV/m                |
| RBW :                         | 1MHz                  |
| Antenna polarization :        | Horizontal & Vertical |
| Voltage:                      | 7.4V DC               |
| Limit:                        | 15.209 / RSS-Gen      |
| Measurement detector:         | Peak                  |
| Wide Measurement Uncertainty: | ± 5dB (k=2)           |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 3.6GHz-9.3GHz / 3m / Horizontal & Vertical / Transmit mode at 903.5MHz)



|                               |                       |
|-------------------------------|-----------------------|
| Frequency band investigated:  | 3.6GHz-9.3GHz         |
| Unit :                        | dBμV/m                |
| RBW :                         | 1MHz                  |
| Antenna polarization :        | Horizontal & Vertical |
| Voltage:                      | 7.4V DC               |
| Limit:                        | 15.209 / RSS-Gen      |
| Measurement detector:         | Peak                  |
| Wide Measurement Uncertainty: | ± 5dB (k=2)           |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Horizontal / Transmit mode at 914.5MHz)

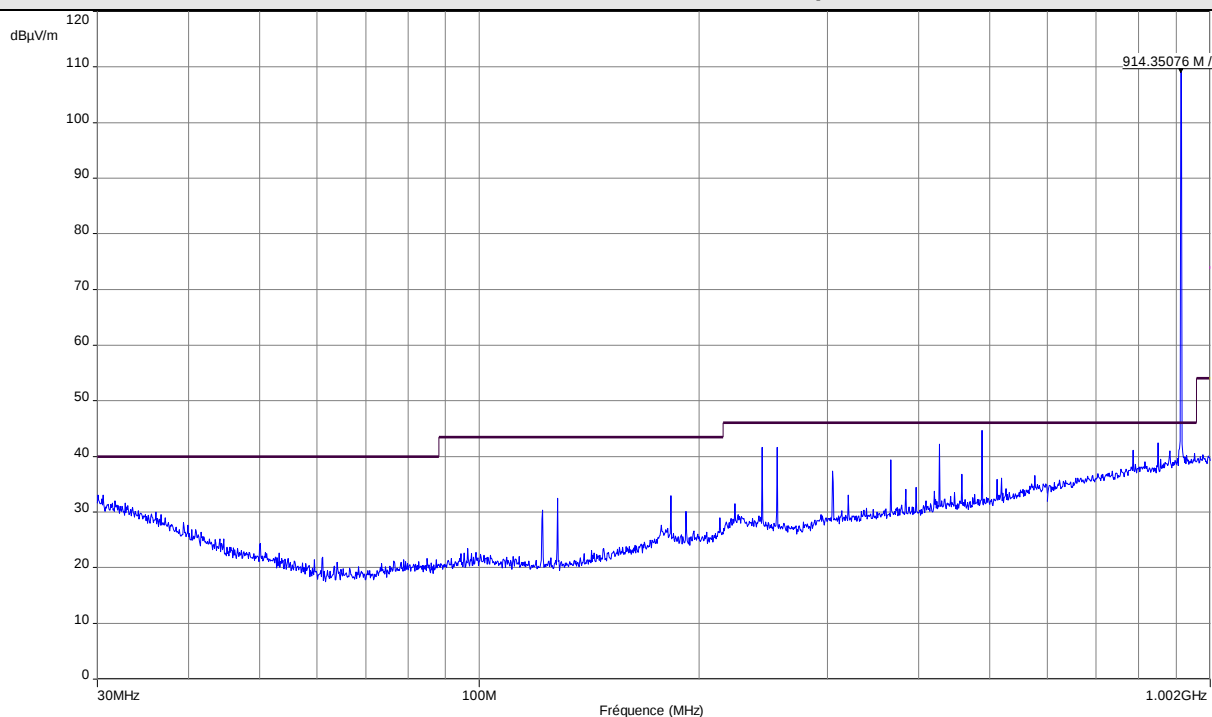


| Frequency<br>(MHz) | Peak Level<br>(dBμV/m) |
|--------------------|------------------------|
| 244.081            | 43.3                   |
| 427.123            | 42.4                   |
| 488.130            | 43.1                   |

Note: Pre-scan graph only for identification purpose.

|                               |                  |
|-------------------------------|------------------|
| Frequency band investigated:  | 30MHz-1GHz       |
| Unit :                        | dBμV/m           |
| RBW :                         | 100kHz           |
| Antenna polarization :        | Horizontal       |
| Voltage:                      | 7.4V DC          |
| Limit:                        | 15.209 / RSS-Gen |
| Measurement detector:         | Peak             |
| Wide Measurement Uncertainty: | ± 5dB (k=2)      |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Vertical / Transmit mode at 914.5MHz)

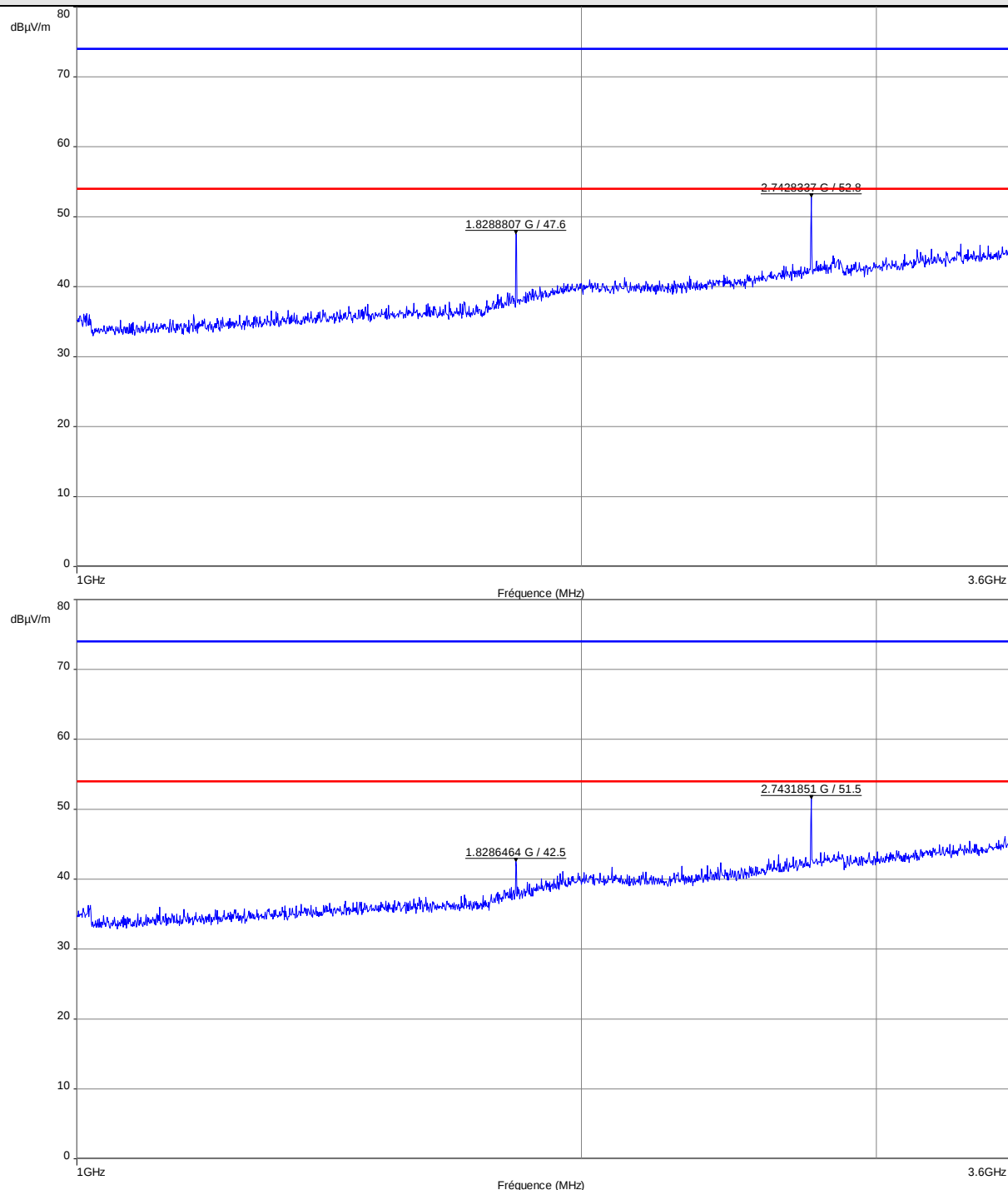


| Frequency<br>(MHz) | Peak Level<br>(dBμV/m) |
|--------------------|------------------------|
| 244.081            | 41.7                   |
| 255.980            | 41.6                   |
| 427.123            | 42.2                   |
| 488.173            | 44.7                   |
| 850.657            | 42.4                   |

Note: Pre-scan graph only for identification purpose.

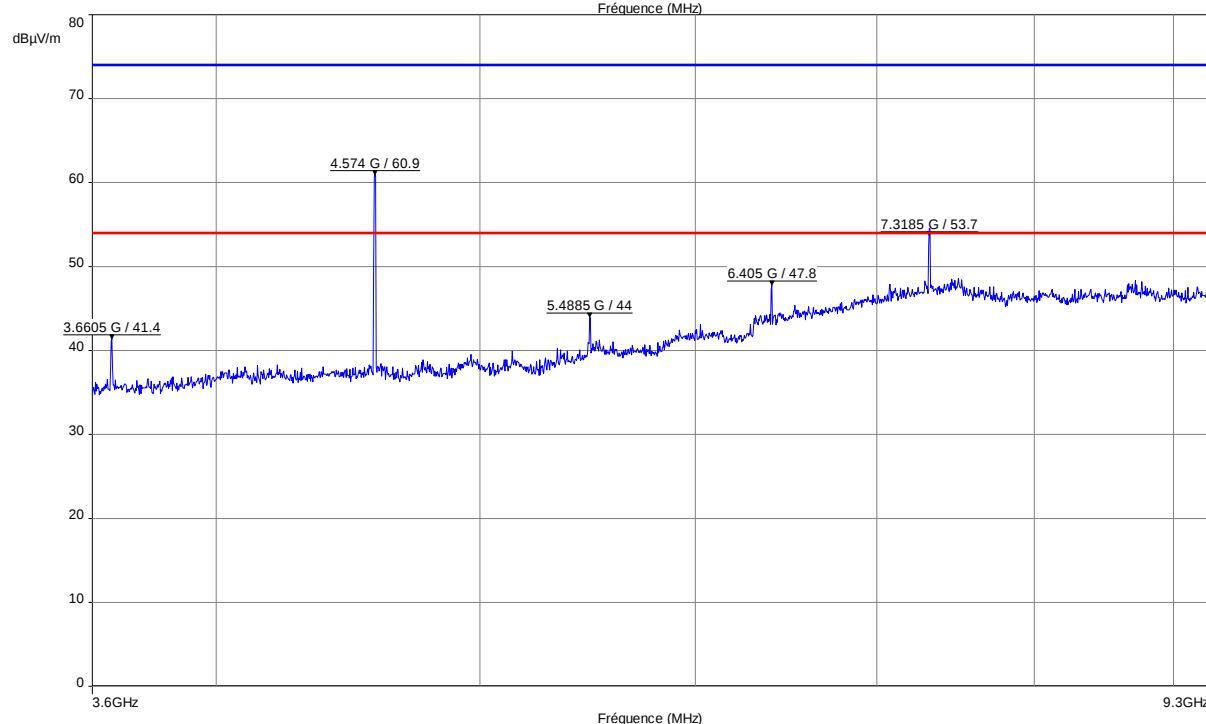
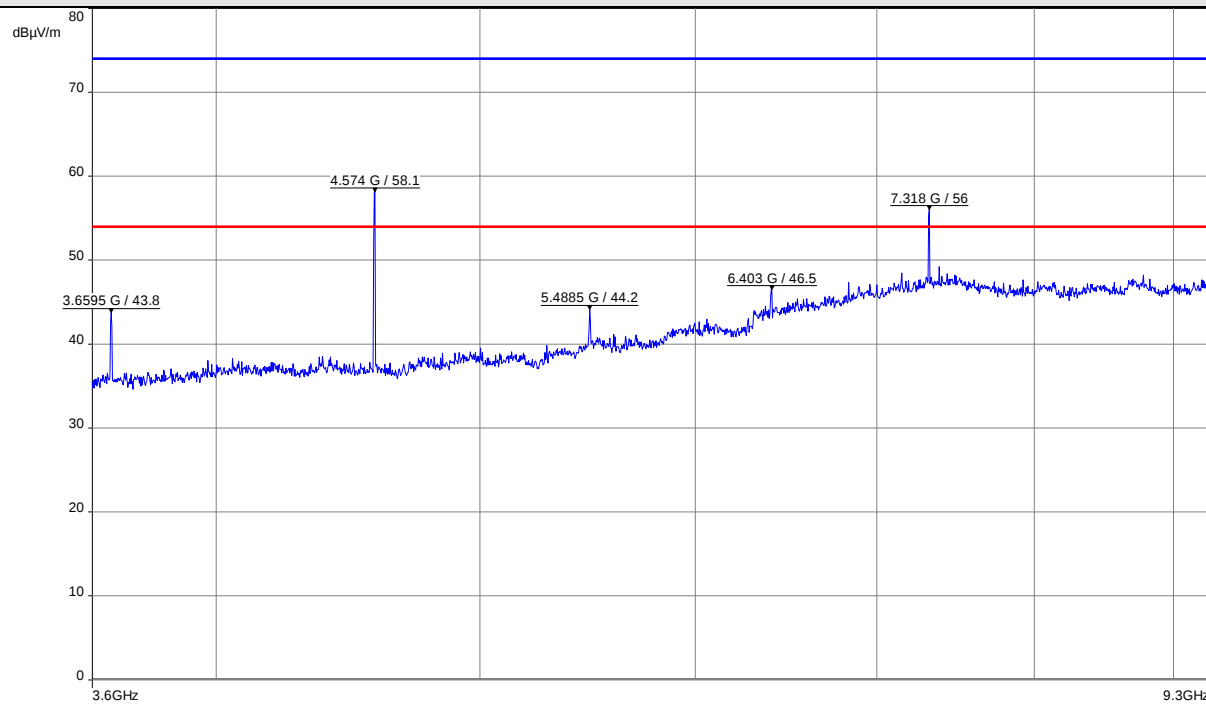
|                               |                  |
|-------------------------------|------------------|
| Frequency band investigated:  | 30MHz-1GHz       |
| Unit :                        | dBμV/m           |
| RBW :                         | 100kHz           |
| Antenna polarization :        | Vertical         |
| Voltage:                      | 7.4V DC          |
| Limit:                        | 15.209 / RSS-Gen |
| Measurement detector:         | Peak             |
| Wide Measurement Uncertainty: | ± 5dB (k=2)      |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 1GHz-3.6GHz / 3m / Horizontal & Vertical / Transmit mode at 914.5Hz)



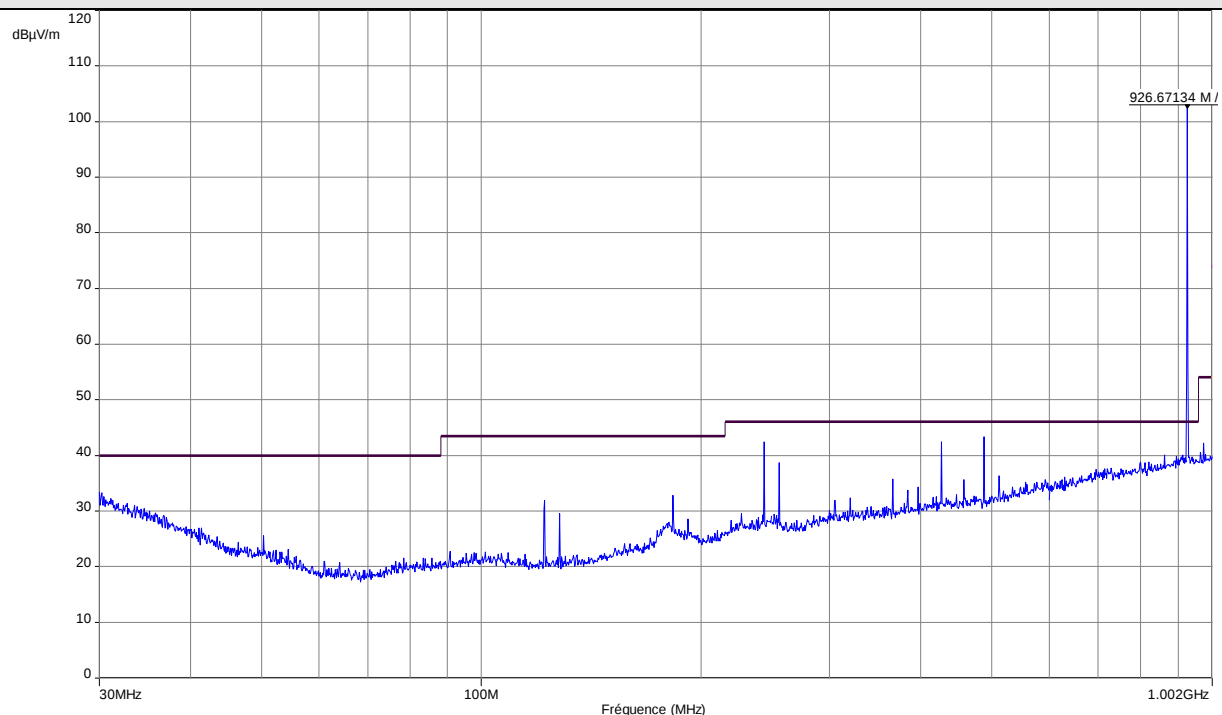
|                               |                       |
|-------------------------------|-----------------------|
| Frequency band investigated:  | 1GHz-3.6GHz           |
| Unit :                        | dBμV/m                |
| RBW :                         | 1MHz                  |
| Antenna polarization :        | Horizontal & Vertical |
| Voltage:                      | 7.4V DC               |
| Limit:                        | 15.209 / RSS-Gen      |
| Measurement detector:         | Peak                  |
| Wide Measurement Uncertainty: | ± 5dB (k=2)           |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 3.6GHz-9.3GHz / 3m / Horizontal & Vertical / Transmit mode at 914.5MHz)



|                               |                       |
|-------------------------------|-----------------------|
| Frequency band investigated:  | 3.6GHz-9.3GHz         |
| Unit :                        | dBμV/m                |
| RBW :                         | 1MHz                  |
| Antenna polarization :        | Horizontal & Vertical |
| Voltage:                      | 7.4V DC               |
| Limit:                        | 15.209 / RSS-Gen      |
| Measurement detector:         | Peak                  |
| Wide Measurement Uncertainty: | ± 5dB (k=2)           |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Horizontal / Transmit mode at 926.5MHz)

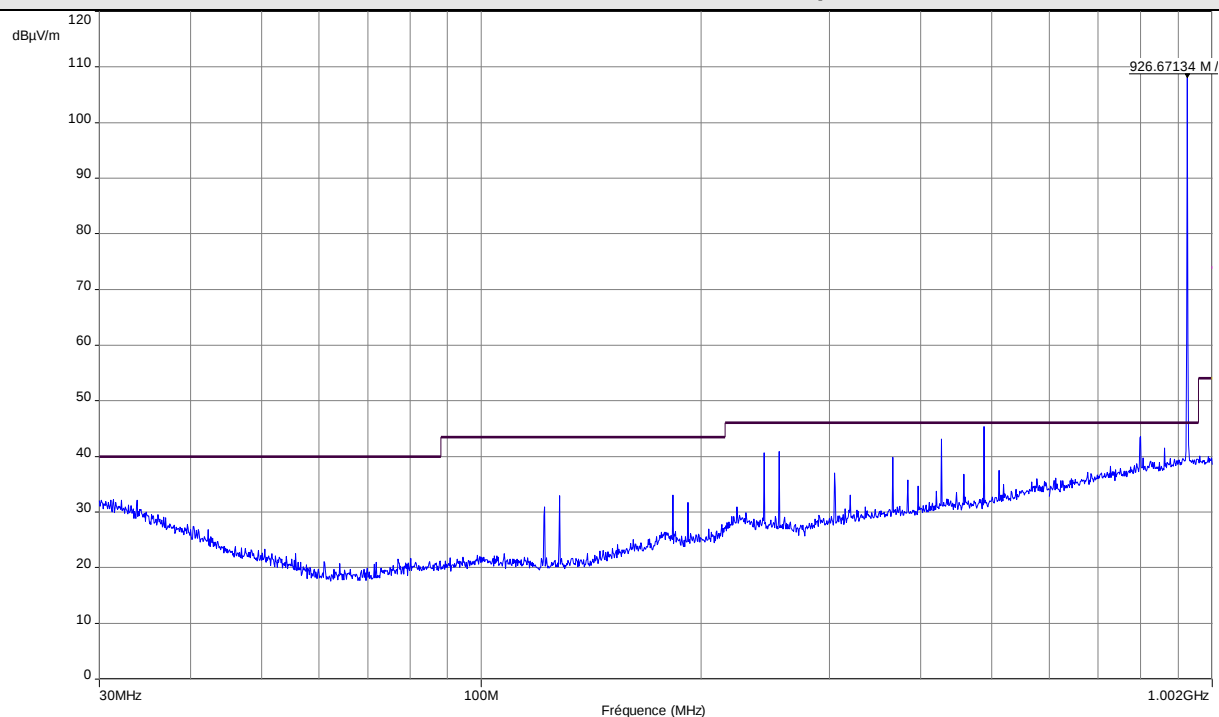


| Frequency (MHz) | Peak Level (dBμV/m) |
|-----------------|---------------------|
| 244.133         | 42.5                |
| 256.002         | 38.6                |
| 427.123         | 42.4                |
| 488.173         | 43.3                |

Note: Pre-scan graph only for identification purpose.

|                               |                  |
|-------------------------------|------------------|
| Frequency band investigated:  | 30MHz-1GHz       |
| Unit :                        | dBμV/m           |
| RBW :                         | 100kHz           |
| Antenna polarization :        | Horizontal       |
| Voltage:                      | 7.4V DC          |
| Limit:                        | 15.209 / RSS-Gen |
| Measurement detector:         | Peak             |
| Wide Measurement Uncertainty: | ± 5dB (k=2)      |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Vertical / Transmit mode at 926.5MHz)

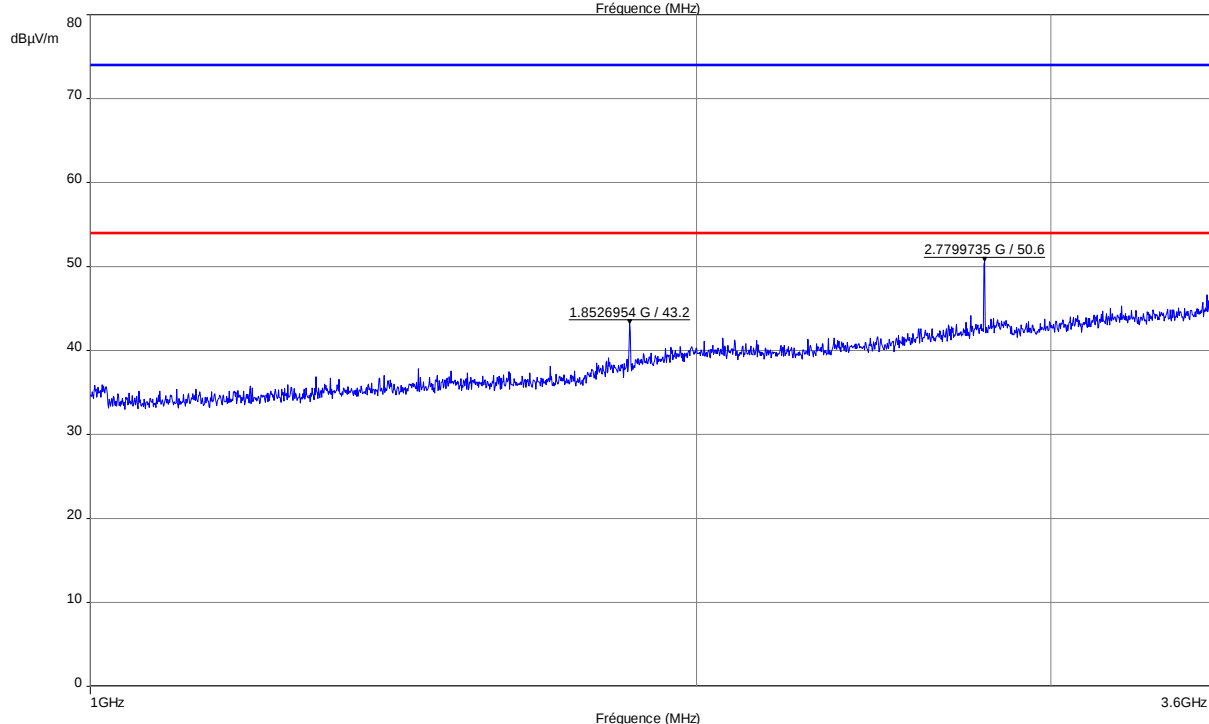
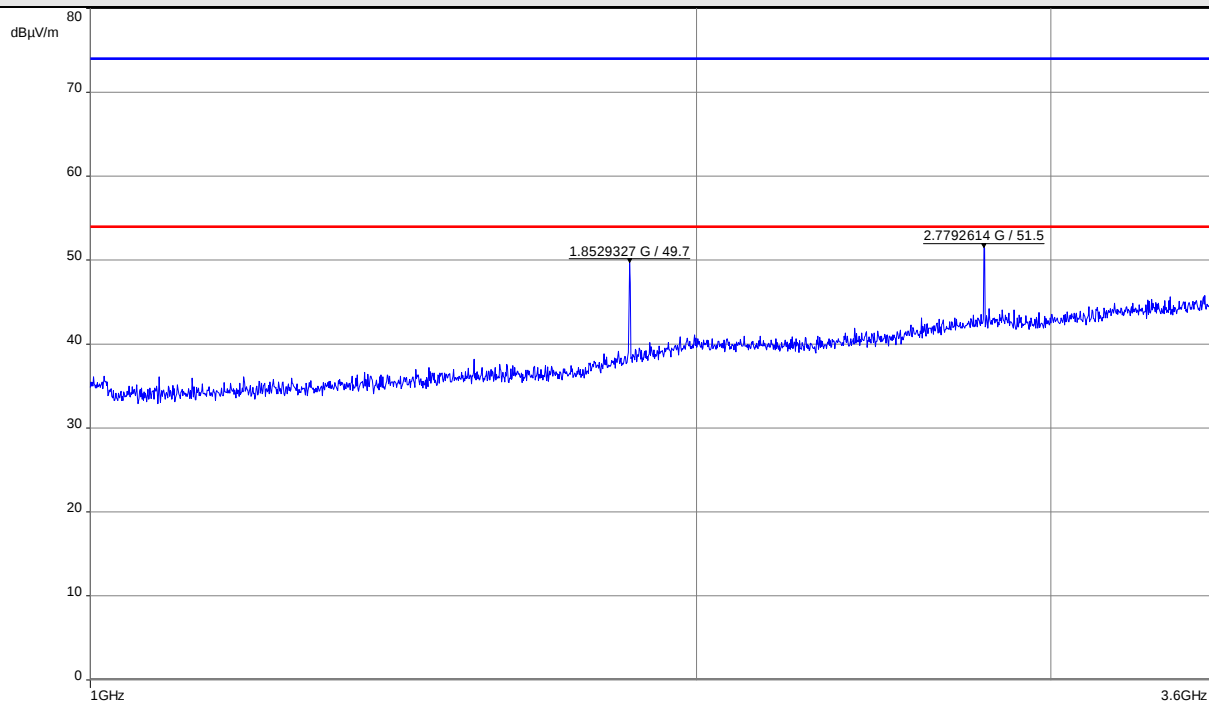


| Frequency (MHz) | Peak Level (dBμV/m) |
|-----------------|---------------------|
| 244.133         | 40.6                |
| 255.980         | 40.7                |
| 366.131         | 39.9                |
| 427.123         | 43.1                |
| 488.173         | 45.3                |
| 798.657         | 43.6                |

Note: Pre-scan graph only for identification purpose.

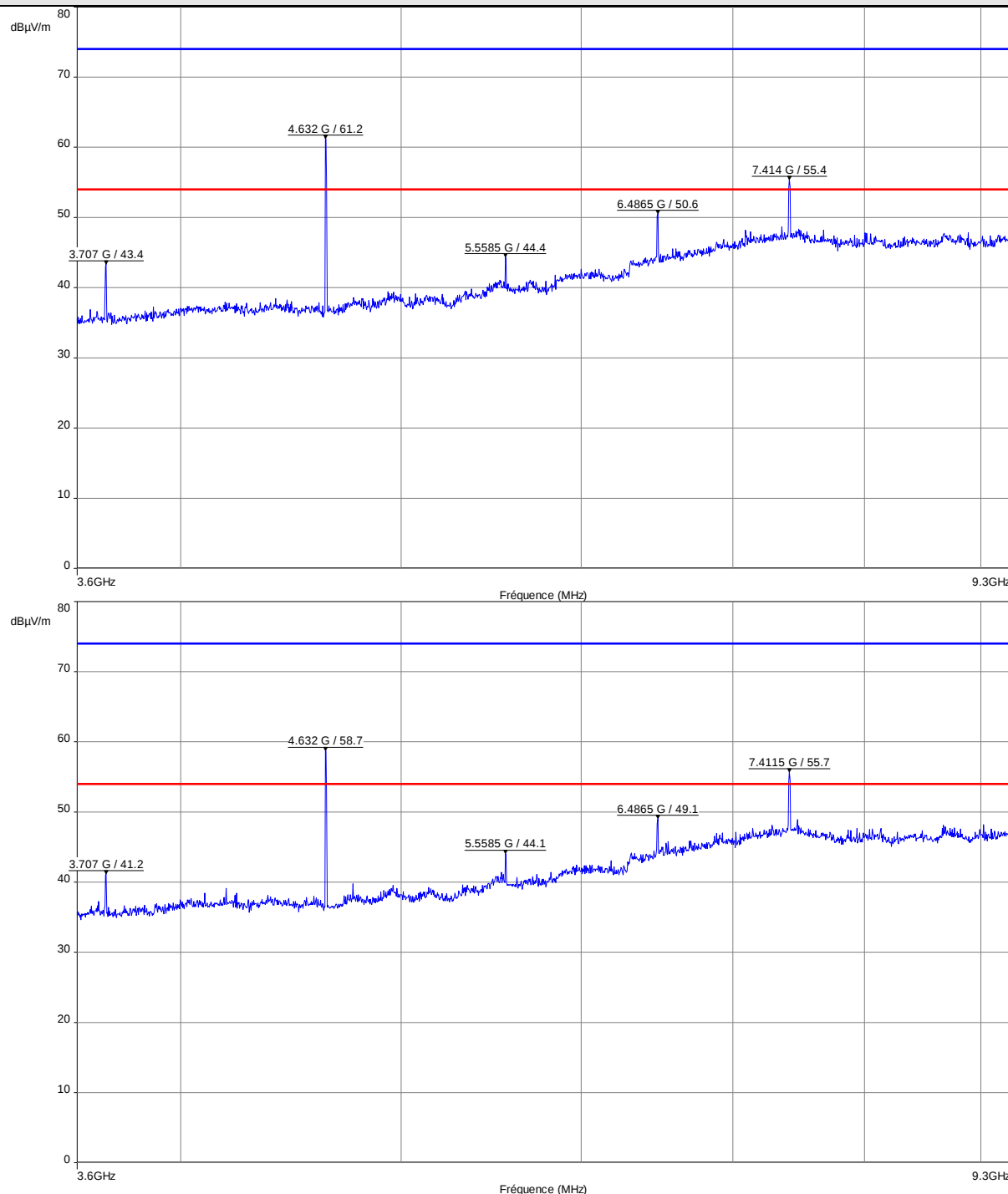
|                               |                  |
|-------------------------------|------------------|
| Frequency band investigated:  | 30MHz-1GHz       |
| Unit :                        | dBμV/m           |
| RBW :                         | 100kHz           |
| Antenna polarization :        | Vertical         |
| Voltage:                      | 7.4V DC          |
| Limit:                        | 15.209 / RSS-Gen |
| Measurement detector:         | Peak             |
| Wide Measurement Uncertainty: | ± 5dB (k=2)      |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 1GHz-3.6GHz / 3m / Horizontal & Vertical / Transmit mode at 926.5MHz)



|                               |                       |
|-------------------------------|-----------------------|
| Frequency band investigated:  | 1GHz-3.6GHz           |
| Unit :                        | dBμV/m                |
| RBW :                         | 1MHz                  |
| Antenna polarization :        | Horizontal & Vertical |
| Voltage:                      | 7.4V DC               |
| Limit:                        | 15.209 / RSS-Gen      |
| Measurement detector:         | Peak                  |
| Wide Measurement Uncertainty: | ± 5dB (k=2)           |

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 3.6GHz-9.3GHz / 3m / Horizontal & Vertical / Transmit mode at 926.5MHz)



|                               |                       |
|-------------------------------|-----------------------|
| Frequency band investigated:  | 3.6GHz-9.3GHz         |
| Unit :                        | dBμV/m                |
| RBW :                         | 1MHz                  |
| Antenna polarization :        | Horizontal & Vertical |
| Voltage:                      | 7.4V DC               |
| Limit:                        | 15.209 / RSS-Gen      |
| Measurement detector:         | Peak                  |
| Wide Measurement Uncertainty: | ± 5dB (k=2)           |

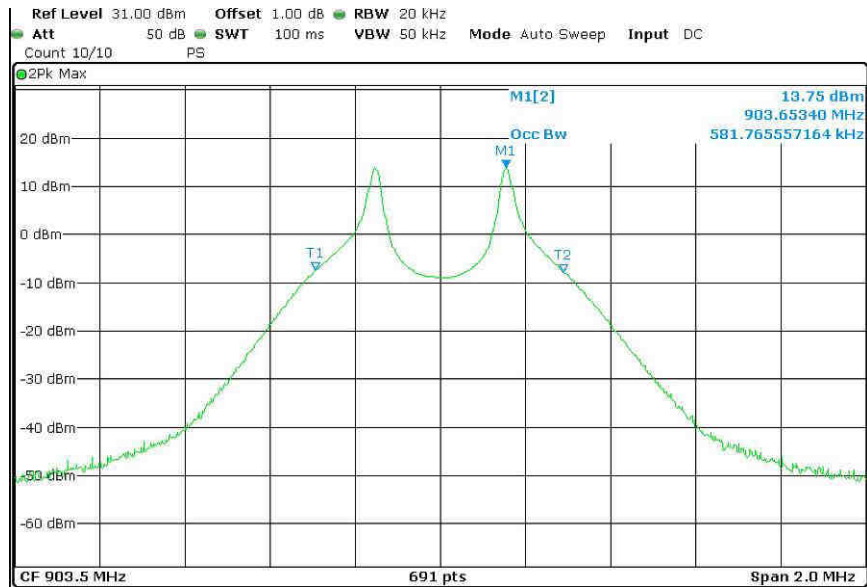
## 14. Occupied bandwidth (99%)

| TEST: Occupied bandwidth (99%) / RSS-GEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                 | Verdict |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|---------|
| <u>Method:</u> RF Output of EUT is wired directly to a spectrum analyser. A conducted measurement is performed.<br>The RBW is set in the range of 1% to 5% of the occupied bandwidth, with VBW ≥ 3 x RBW.<br>The SPAN is wide enough to capture all products of the modulation process.<br>A MaxHold Peak detector is used.<br>Measure is performed with OBW 99% function of the spectrum analyser.<br>The tested equipment is set to transmit operation with modulations on lowest, middle and highest channel. |                            |                 | Pass    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Required prior to the test | During the test |         |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10 to 40 °C                | 20°C            |         |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 to 90 %                 | 55%             |         |
| Supplementary information:<br>Test location: SMEE<br>Test date: September 9 <sup>th</sup> , 2016 by J. Blancher<br>Power supply voltage: 7.4V from battery (fully charged)                                                                                                                                                                                                                                                                                                                                       |                            |                 |         |

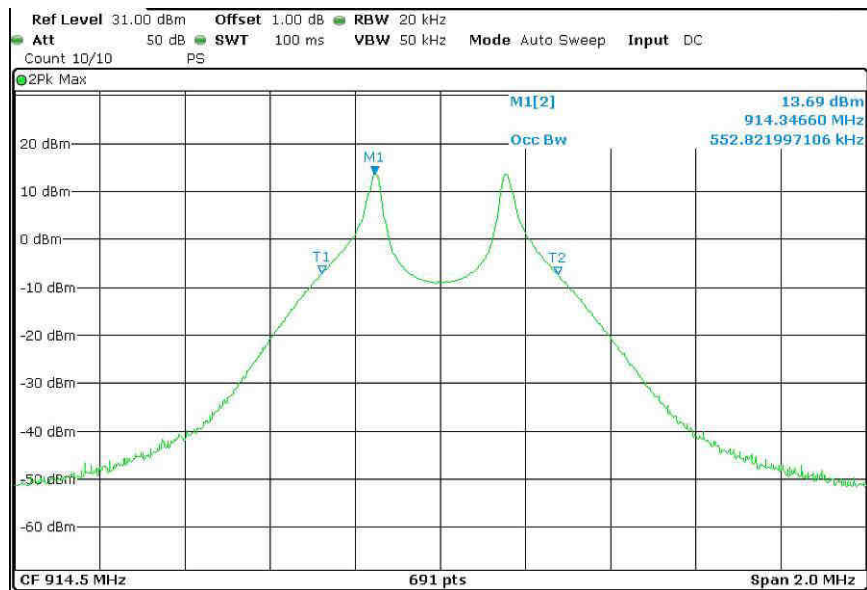
| Test Equipment Used |               |           |             |           |          |
|---------------------|---------------|-----------|-------------|-----------|----------|
| Description         | Manufacturer  | Model     | Identifier  | Cal. Date | Cal. Due |
| Measuring Rec.      | Rohde&Schwarz | ESRP      | REC-151-002 | 2015/7    | 2018/7   |
| RF cable            | Pasternack    | PE354-150 | CAB-131-025 | 2016/3    | 2017/3   |

| Tabulated Results for Occupied Bandwidth |                                 |
|------------------------------------------|---------------------------------|
| Frequency<br>(MHz)                       | 99% Occupied Bandwidth<br>(kHz) |
| 903.5                                    | 581.8kHz                        |
| 914.5                                    | 552.8kHz                        |
| 926.5                                    | 576.0kHz                        |

## Graphical representation of 99% Occupied Bandwidth



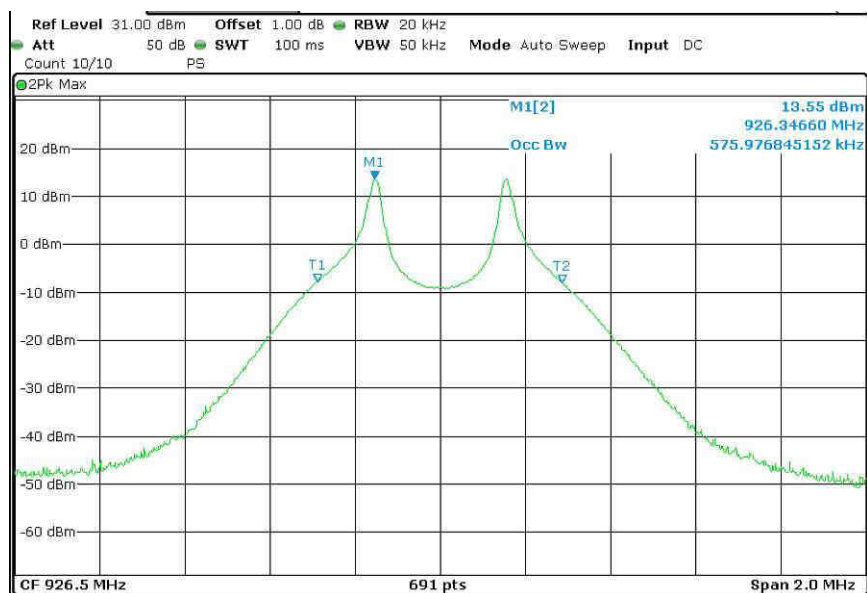
Low channel



Mid channel

|                              |                  |
|------------------------------|------------------|
| Frequency band investigated: | 902MHz to 928MHz |
| RBW :                        | 20kHz            |
| Measurement detector:        | Peak             |

## Graphical representation of 99% Occupied Bandwidth



High channel

|                              |                  |
|------------------------------|------------------|
| Frequency band investigated: | 902MHz to 928MHz |
| RBW :                        | 20kHz            |
| Measurement detector:        | Peak             |