

FCC Test Firm Designation Number: FR0014  
ISED Wireless Device Testing Laboratory CAB Number: FR0004

Matériel testé :  
Equipment under test:

**IDENTEC SOLUTIONS / iMARK BP (IDS1016)**  
(Trademark / Marketing name or product reference)

Demandeur de certification : **IDENTEC SOLUTIONS AG**  
Applicant for certification: Millennium Park 2  
A-6890 Lustenau – Austria

Client : **IDENTEC SOLUTIONS AG**  
Customer: Millennium Park 2  
A-6890 Lustenau – Austria

Numéro d'affaire : OF-110921  
Work number :

Référence de la proposition : DV-811131  
Proposal number:

Date de l'essai : Du 29 au 30 Juillet 2025  
Date of test: July 29<sup>th</sup> to July 30<sup>th</sup>, 2025

Objectif des essais : EMC qualification according to following standards:  
Test purpose: - CFR 47, FCC Part 15, Subpart C  
(Chapter 15.249 - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz, and 24.0–24.25 GHz)  
- Industry Canada, RSS-Gen Issue 5 & RSS-210 Issue 11, section B.10  
(Bands 902–928, 2400–2483.5 and 5725–5875 MHz)  
Measurement standards:  
ANSI C63.10 (2013)

Lieu du test: SMEE, 385 rue René Rambaud  
Test location: 38500 VOIRON - France

Test réalisé par : Chemseddine KERMICHE  
Test realized by:

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

| Ed. | Date                             | Modifications<br>Pages | Written by :<br>Visa                                                                                                         | Approved by:<br>Visa                |
|-----|----------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1   | September 1 <sup>st</sup> , 2025 | Initial Edition        | Chemseddine KERMICHE<br>Test Engineer<br> | Laurent Chapus<br>Technical Manager |

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## COORDONNEES

SMEE  
385 rue René Rambaud – ZA Le Parvis 2  
38500 VOIRON - France

TEL : 04 76 65 76 50  
FAX : 04 76 66 18 30

SAS au capital de 50 000 € / RC Grenoble B534 796 453 / SIRET 534 796 453 00023 / code APE 7490B / n° TVA : FR 59 534 796 453

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## 1. Normative References

| FCC qualification according to: |         |                                                                                                                      |
|---------------------------------|---------|----------------------------------------------------------------------------------------------------------------------|
| Standards                       | Applied | Title                                                                                                                |
| ANSI C63.10<br>(2013)           | X       | American National Standard for Testing Unlicensed Wireless Devices                                                   |
| CFR47, Part 15<br>(July 2025)   | X       | Telecommunication – Federal Communication Commission – Radio frequency devices,<br>Sections 15.207 / 15.209 / 15.249 |

| ISED Canada qualification according to:             |         |                                                                                                                                                   |
|-----------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                           | Applied | Title                                                                                                                                             |
| RSS-Gen<br>(Issue 5/2018, amendments 2019 and 2021) | X       | General Requirements and Information for the Certification of Radio Apparatus                                                                     |
| RSS-210<br>(Issue 11/2024)                          | X       | Licence-exempt Radio Apparatus: Category I Equipment,<br>Section B.10: Devices Operating in Frequency Bands for Any Application, Band 902-928 MHz |

Deviation from standards: None.

## 2. Test synthesis

| TEST                                                                  | Paragraph number<br>FCC Part 15<br>ISED RSS-210                                     | Spec.<br>FCC Part 15<br>ISED RSS-210                                                                                                                                                                                                                                                                                                                                                                                | RESULTS<br>(comments) |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Conducted emissions test                                              | 15.207 (a)<br>RSS-Gen: Issue 5, §8.8                                                | 15.207 (a)<br>Table 4, §8.8                                                                                                                                                                                                                                                                                                                                                                                         | N/A (1)               |
| Field Strength of fundamental                                         | 15.249 (a) (c)<br>RSS-210: Issue 11, §B.10 (a)                                      | 94dBµV/m @3m<br>(50mV/m @ 3m)                                                                                                                                                                                                                                                                                                                                                                                       | <b>PASS</b>           |
| Field Strength of harmonics                                           | 15.249 (a) (c) (e)<br>RSS-210: Issue 11, §B.10 (a)                                  | 54dBµV/m @3m<br>(0.5mV/m @ 3m)                                                                                                                                                                                                                                                                                                                                                                                      | <b>PASS</b>           |
| Unwanted emissions outside the specified frequency band and harmonics | 15.209 / 15.249 (d) (e)<br>RSS-210: Issue 11, §B.10 (b) /<br>RSS-Gen: Issue 5, §8.9 | Whichever is less stringent, either:<br>- 50dB below level of fundamental, or;<br>- General field strength limits, as follow:<br><u>Measure at 300m</u><br>9-490kHz: 2400µV/m/F(kHz)<br><u>Measure at 30m</u><br>0.490-1.705: 24000µV/m/F(kHz)<br>1.705-30MHz: 30µV/m<br><u>Measure at 3m</u><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 | <b>PASS</b>           |
| Occupied Bandwidth                                                    | FCC part 15.215<br>RSS-Gen: Issue 5, §6.7                                           | BW at 99% and at -20dB                                                                                                                                                                                                                                                                                                                                                                                              | <b>PASS</b>           |

NA: Not Applicable

(1): EUT powered from internal battery.

### • **General conclusion:**

Measures and tests performed on the sample of the product *IDENTEC SOLUTIONS / iMARK BP (IDS1016)*, in configuration and description presented in this test report, show compliance with standards FCC CFR 47, PART 15, Subpart C and ISED-Canada RSS-Gen & RSS-210.

## 3. Equipment Under Test (EUT)

### Nom / Identification

**IDENTEC SOLUTIONS / iMARK BP (IDS1016)**  
(Trademark / Marketing name or product reference)



**FCC ID:** OO4-IDS1016  
**Product name / PMN:** iMARK BP  
**Model:** IDS1016  
**FVIN:** V10  
**Modular approval:** No

**Alimentation /  
Power supply** 3.6V DC from internal batteries.

**Auxiliaires /  
Auxiliaries** - Laptop PC Hp pavillon g6  
- IDENTEC reader: i-POINT Si, model : IDS1001 (for programming of the EUT)

### Entrées-Sorties / Input / Output

|          | Câbles pour essai /<br>Cables for test | Blindé /<br>Shielded | Prévu pour >3m /<br>Intended for >3m |
|----------|----------------------------------------|----------------------|--------------------------------------|
| No Cable | -                                      | -                    | -                                    |

### Mode de fonctionnement / Running mode

Equipment running modes are:  
The tested sample is able to be set in following modes:  
- Transmit a modulated carrier frequency on two frequency channels (919MHz and 920MHz)

**Programme de test /  
Test program /** PC test program "Gen3 Tag Certification tool Version : 1.0.4.0"

**Fréquence max interne EST /  
Max internal EUT frequency** 920.0 MHz for RF data transmission.

### Informations supplémentaires / Additional informations

Declaration of the applicant:  
- Type of technology: Proprietary RF protocol.  
- Emission bands: 902-928MHz.  
- Channel spacing 1MHz for 919MHz and 920MHz.  
- Modulation: (G)FSK  $\pm 50$ kHz.  
- Equipment intended for use as a fixed equipment.  
- Equipment designed for continuous operation.  
- Antenna type: Ceramic patch (3dBi gain max)  
- Rated conducted output power setting software: 65 (-1dBm).

**Dimensions de l'EST /  
Dimensions of EUT** 221mm x 221 x 25

All Information above is declared by the customer / applicant and are under his responsibility.

#### 4. Test conditions

Power supply voltage:  
Equipment under test: 3.6V DC from internal batteries.  
Auxiliaries: None.

#### 5. Modifications of the EUT

None.

#### 6. Special accessories

None required for compliance with emission limits.

#### 7. Measurement Uncertainty

| Test Description                                    | Expanded uncertainty |
|-----------------------------------------------------|----------------------|
| Conducted emissions test (150k-30MHz, AC mains)     | ± 3.5dB              |
| Radiated emission test (9kHz-30MHz, electric field) | ± 4.0dB              |
| Radiated emission test (30-200MHz, SAC 3m)          | ± 5.6dB              |
| Radiated emission test (200-1000MHz, SAC 3m)        | ± 5.3dB              |
| Radiated emission test (1-18GHz, FAC 3m)            | ± 5.6dB              |
| Radiated emission test (18-40GHz, FAC 3m)           | ± 5.6dB              |
| Conducted RF output power at antenna port           | ± 1.6dB              |
| Radiated RF output power (Peak, Power density)      | ± 5.6dB              |
| DTS Bandwidth, 99% OBW                              | ±4%                  |
| Temperature                                         | ± 1°C                |
| Time and duty cycle calculation                     | ±1%                  |
| AC and DC voltage                                   | ±1%                  |

Note: Expanded uncertainty at 95% confidence (k=2)

#### 8. Field Strength Calculation

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:

$$FS = RA + AF + CF - AG$$

Where FS = Field Strength (Level)

RA = Receiver Amplitude (Meter Reading)

AF = Antenna Factor

CF = Cable Factor

AG = Amplifier Gain

Margin value = Emission level – Limit value

Example:

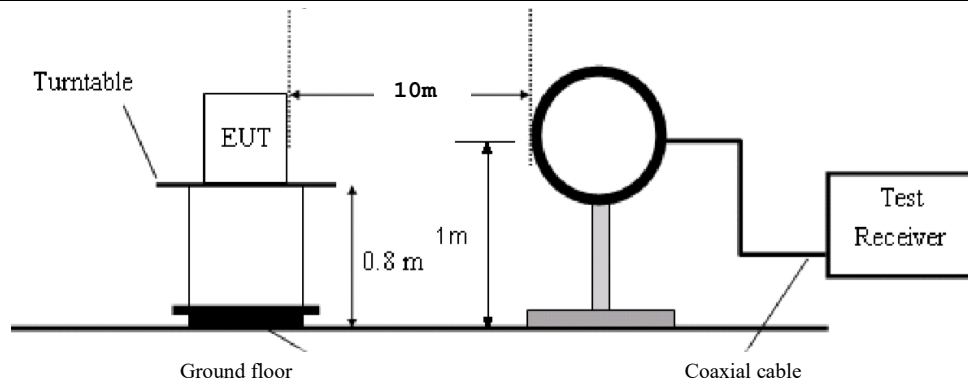
RA: 14.0dBμV / AF: 16.5 dBm<sup>-1</sup> / CF: 3.5dB / AG: 15dB

→ Total factor: 5dBm<sup>-1</sup>

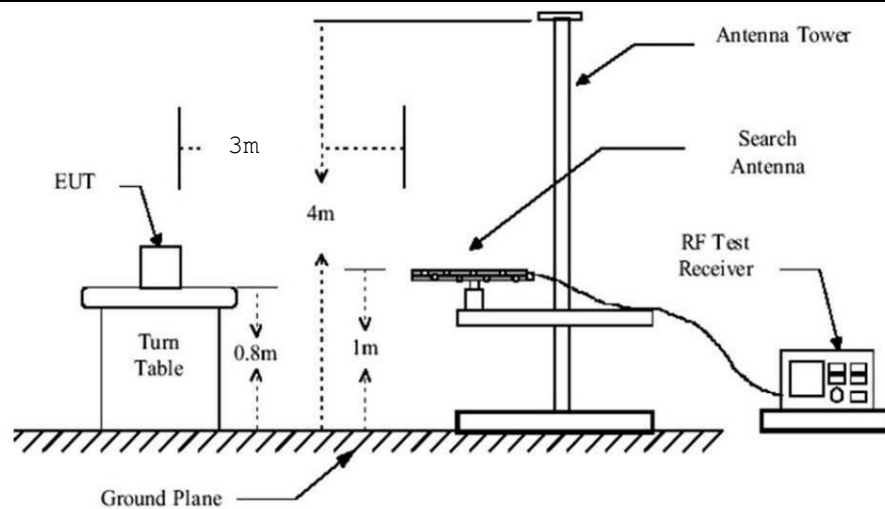
→ Field level: 19.0dBμV/m (-21.0dB for margin if limit is 40dBμV/m)

## 9. Test Setup Diagram

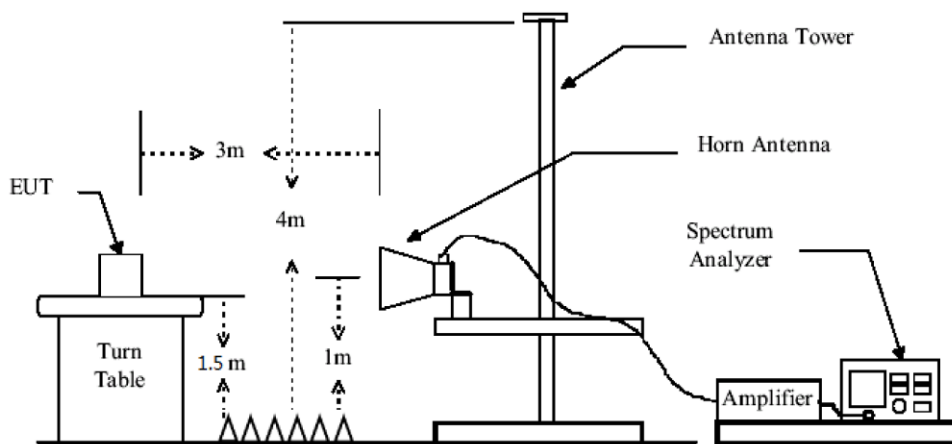
**Test Setup for radiated emission**



Test setup for 9k-30MHz (FS OATS)



Test setup for 30-1000MHz (SAC 3m)



Test setup for 1-10GHz (SAC 3m, tilt antenna mast used)

## 10. Field Strength of fundamental

| TEST: Field strength of fundamental / FCC part 15.249 – RSS 210 §B.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                 | Verdict     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------|
| <p><u>Method:</u> Measurements were made in a 3-meter Semi anechoic chamber (SAC) that complies with ANSI C63.4 / C63.10.</p> <p>Measurements were performed with a peak detector using a 120kHz RBW.</p> <p>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.</p> <p>The tested equipment is set to transmit operation with modulation on lowest, middle and highest channels. Three orthogonal axis measurements on EUT are performed to obtain the maximum peak field strength.</p> |                             |                 | <b>Pass</b> |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Required prior to the test  | During the test |             |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20 to 30 °C                 | 24°C ± 2        |             |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30 to 70 %                  | 45% ± 5         |             |
| Limits – FCC Part 15.249 (a) (c) / RSS-210 §B.10 (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                 |             |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limits (dBµV/m)             |                 |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Level / Detector / Distance | Results         |             |
| 902 to 928 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 94dBµV/m / Quasi-peak / 3m  | <b>Pass</b>     |             |
| <p>Supplementary information:</p> <p>Test location: SMEE</p> <p>Test date: July 29<sup>th</sup>, 2025. Tested by C. KERMICHE</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |                 |             |

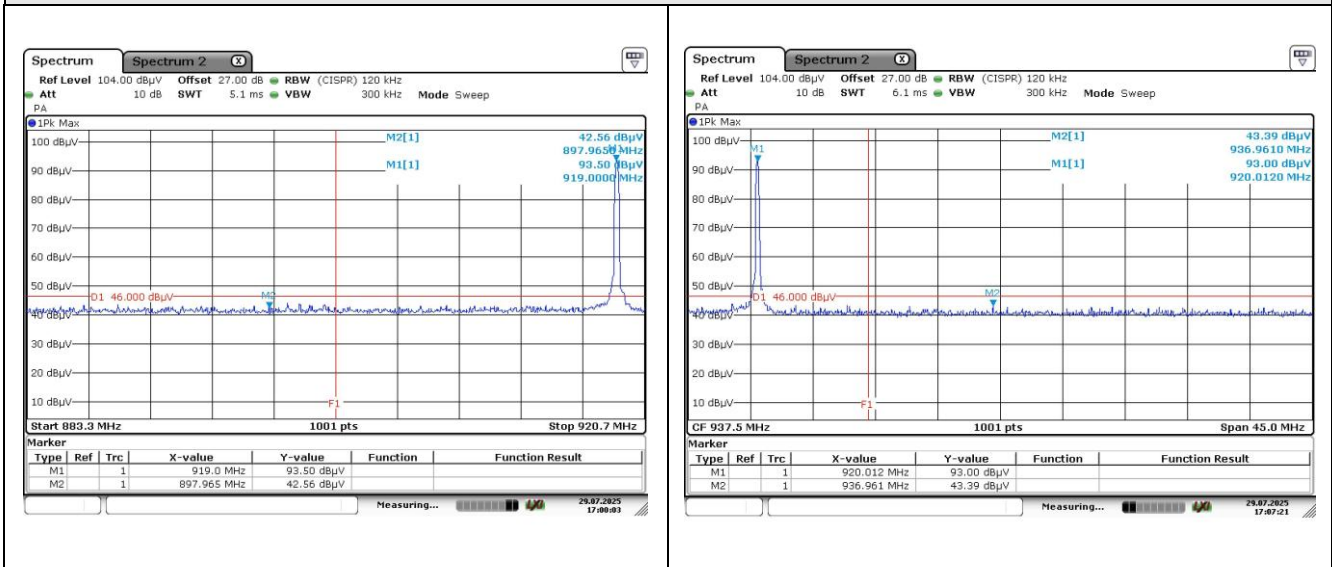
| Tabulated Results for Field Strength of fundamental / IDS1014 |                              |                                         |                |           |        |
|---------------------------------------------------------------|------------------------------|-----------------------------------------|----------------|-----------|--------|
| FREQ (MHz)                                                    | Field Strength @ 3m (dBµV/m) | Detector                                | Limit (dBµV/m) | Margin dB | Result |
| 919.0                                                         | <b>93.6</b>                  | QP                                      | 94.0           | -0.4      | Pass   |
| 920.0                                                         | <b>92.9</b>                  | QP                                      | 94.0           | -1.1      | Pass   |
| <b>RBW:</b>                                                   |                              | 100kHz                                  |                |           |        |
| <b>Measurement distance:</b>                                  |                              | 3m                                      |                |           |        |
| <b>Limit:</b>                                                 |                              | FCC Part 15.249 (a) (c) / RSS-210 §B.10 |                |           |        |
| <b>Final measurement detector:</b>                            |                              | Quasi-Peak                              |                |           |        |
| <b>RESULT:</b>                                                |                              | PASS                                    |                |           |        |

## 11. Unwanted emissions & Field Strength of harmonics

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |                             |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------|----------------|
| <b>TEST: Unwanted emissions outside fundamental and harmonics bands / FCC part 15.209, 15.249 - RSS-210 §B.10 / RSS-Gen §8.9</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |                             | <b>Verdict</b> |
| <p><u>Method:</u> Measurements were made in a 3-meter Semi Anechoic Room (SAR) for frequency 30MHz to 1GHz and in a 3-meter Full Anechoic environment (SAR with floor absorbers) above 1GHz. The Semi Anechoic Room complies with CISPR16-1-4 / ANSI C63.4 requirements. For frequency 9kHz to 30MHz, measurements are performed on a free-space open area test site at 10m distance.</p> <p>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.</p> <p>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> |                                                                              |                             | <b>Pass</b>    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Required prior to the test                                                   | During the test             |                |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20 to 30 °C                                                                  | 22°C ± 2                    |                |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30 to 70 %                                                                   | 45% ± 5                     |                |
| 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 – 10GHz                                                                | 3 m measurement distance    |                |
| <b>Limits – FCC Part 15.209, 15.249 (a) (c) (d) (e) / RSS-Gen §8.9, RSS-210 §B.10 (a) (b)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |                             |                |
| <b>Whichever is less stringent, either:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |                             |                |
| Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Limits (dBµV/m)                                                              |                             |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Level / Detector / Distance                                                  | Level / Detector / Distance |                |
| 30 to 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50dB below the fundamental / QP / 3m                                         | Not used                    |                |
| Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50dB below the fundamental / Av / 3m<br>30dB below the fundamental / Pk / 3m | Not used                    |                |

| Or                                                                                                                  |                                                     |         |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------|
| Frequency (MHz)                                                                                                     | Limits (dBμV/m)                                     |         |
|                                                                                                                     | Level / Detector / Distance                         | Results |
| 0.009 to 0.090                                                                                                      | 107.6 – 87.6 / AV / 10m<br>127.6 – 107.6 / PK / 10m | Pass    |
| 0.090 to 0.110                                                                                                      | 87.6 – 85.9 / QP / 10m                              | Pass    |
| 0.110 to 0.490                                                                                                      | 85.7 – 72.9 / AV / 10m<br>105.7 – 92.9 / PK / 10m   | Pass    |
| 0.490 to 1.705                                                                                                      | 52.9 – 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    |
| Supplementary information:<br>Test location: SMEE<br>Test date: July 29 <sup>th</sup> , 2025. Tested by C. KERMICHE |                                                     |         |

## Graphical representation of Band-edge compliance (Radiated)



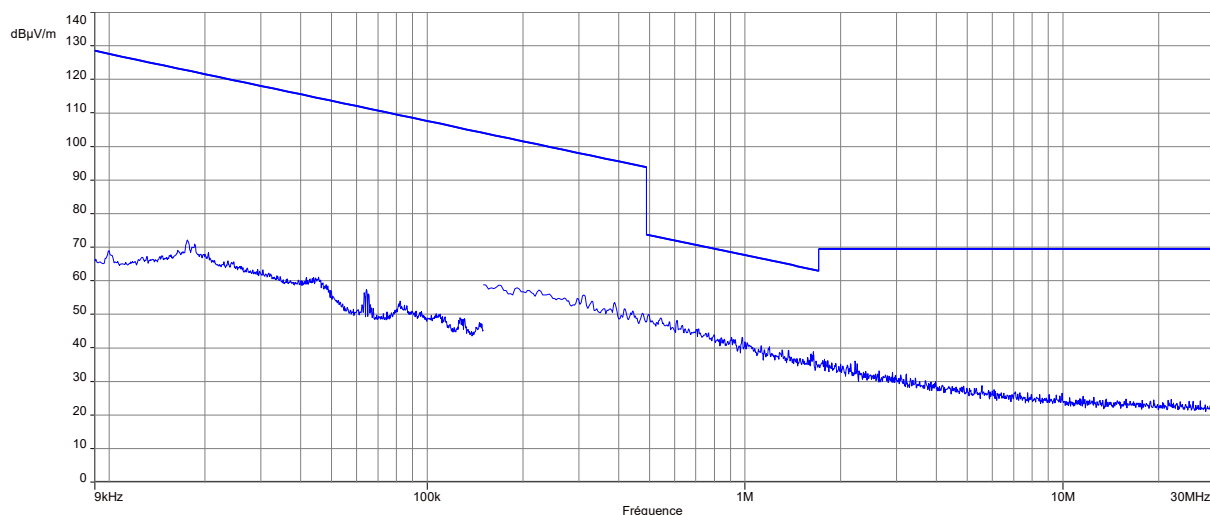
**Low band-edge compliance**

F1 = 902MHz  
 Quasi-Peak level below 902MHz is 42.56dBμV/m max at 3m  
 (limit is 46dBμV/m)  
**RESULT: PASS**  
 Note: Radiated measurement  
 FS = RA + AF + CF  
 Where FS = Field Strength (Level in dBμV/m)  
 RA = Receiver Amplitude (Meter Reading)  
 AF = Antenna Factor  
 CF = Cable Factor  
 AF+CF = 27dBm<sup>-1</sup>

**High band-edge compliance**

F1 = 928MHz  
 Quasi-Peak level above 928MHz is 43.39dBμV/m max at 3m  
 (limit is 46dBμV/m)  
**RESULT: PASS**  
 Note: Radiated measurement  
 FS = RA + AF + CF  
 Where FS = Field Strength (Level in dBμV/m)  
 RA = Receiver Amplitude (Meter Reading)  
 AF = Antenna Factor  
 CF = Cable Factor  
 AF+CF = 27dBm<sup>-1</sup>

## Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 9kHz-30MHz / 3m / Worst case Parallel & Perpendicular antenna position / Transmit mode)



Notes: Pre-scan graph only for identification purpose. Same result for transmit mode on all channels.

### Tabulated Results for Unwanted emissions (9kHz-490kHz)

| FREQ | RF field @ 300m | Limit @ 300m | Detector     | Margin | Ant. angle | Table angle | Correc. Fact. (CF) |
|------|-----------------|--------------|--------------|--------|------------|-------------|--------------------|
| MHz  | dBµV/m          | dBµV/m       | Pk / QP / AV | dB     | Degree     | Degree      | dB                 |

All levels are at least 20dB below applicable limits

Supplementary information:

Frequency list measured has been created with pre-scan results.

|                                     |                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frequency band investigated:</b> | 9kHz-490kHz                                                                                                                                              |
| <b>RBW:</b>                         | 200Hz (9kHz-150kHz)<br>9kHz (150kHz-30MHz)                                                                                                               |
| <b>Measurement distance:</b>        | 10m                                                                                                                                                      |
| <b>Final measurement detector:</b>  | Peak / Quasi-Peak / Average                                                                                                                              |
| <b>Limit:</b>                       | FCC Part 15.209 / RSS-Gen                                                                                                                                |
| <b>Note:</b>                        | CF: Correction factor = Antenna factor + Cable loss<br>(M@300m = M@10m-59.1dB)<br>Loop antenna used and rotated about its axis to maximize any emission. |

### Tabulated Results for Unwanted emissions (490kHz-30MHz)

| FREQ | RF field @ 30m | Limit @ 30m | Detector | Margin | Ant. angle | Table angle | Correc. Fact. (CF) |
|------|----------------|-------------|----------|--------|------------|-------------|--------------------|
| MHz  | dBµV/m         | dBµV/m      | Pk / QP  | dB     | Degree     | Degree      | dB                 |

All levels are at least 20dB below applicable limits

Supplementary information:

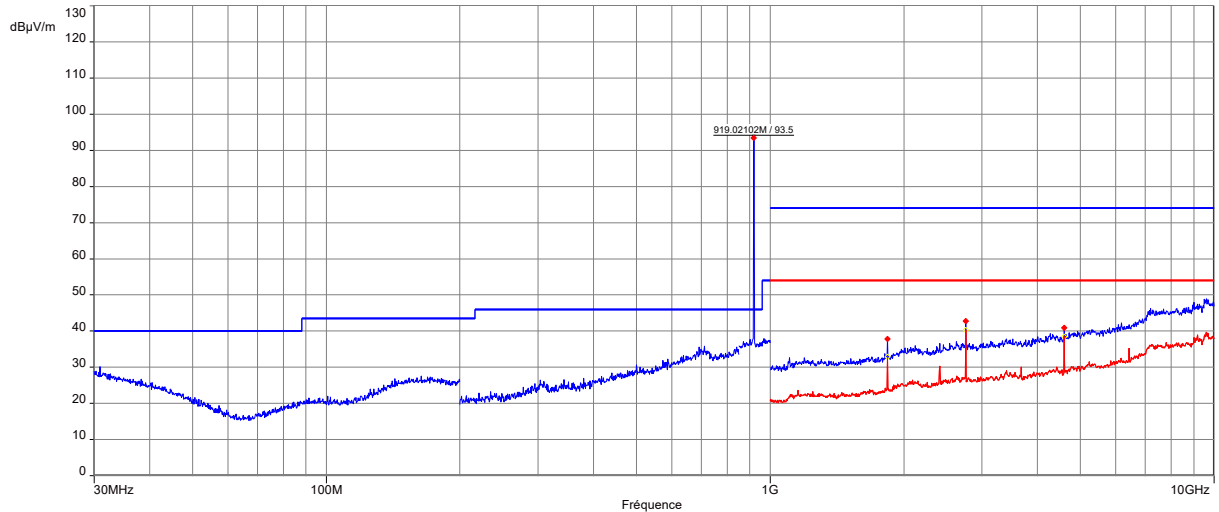
Frequency list measured has been created with pre-scan results.

|                                     |                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frequency band investigated:</b> | 490kHz-30MHz                                                                                                                                            |
| <b>RBW:</b>                         | 9kHz (150kHz-30MHz)                                                                                                                                     |
| <b>Measurement distance:</b>        | 10m                                                                                                                                                     |
| <b>Final measurement detector:</b>  | Quasi-Peak                                                                                                                                              |
| <b>Limit:</b>                       | FCC Part 15.209 / RSS-Gen                                                                                                                               |
| <b>Note:</b>                        | CF: Correction factor = Antenna factor + Cable loss<br>(M@30m = M@10m-19.1dB)<br>Loop antenna used and rotated about its axis to maximize any emission. |

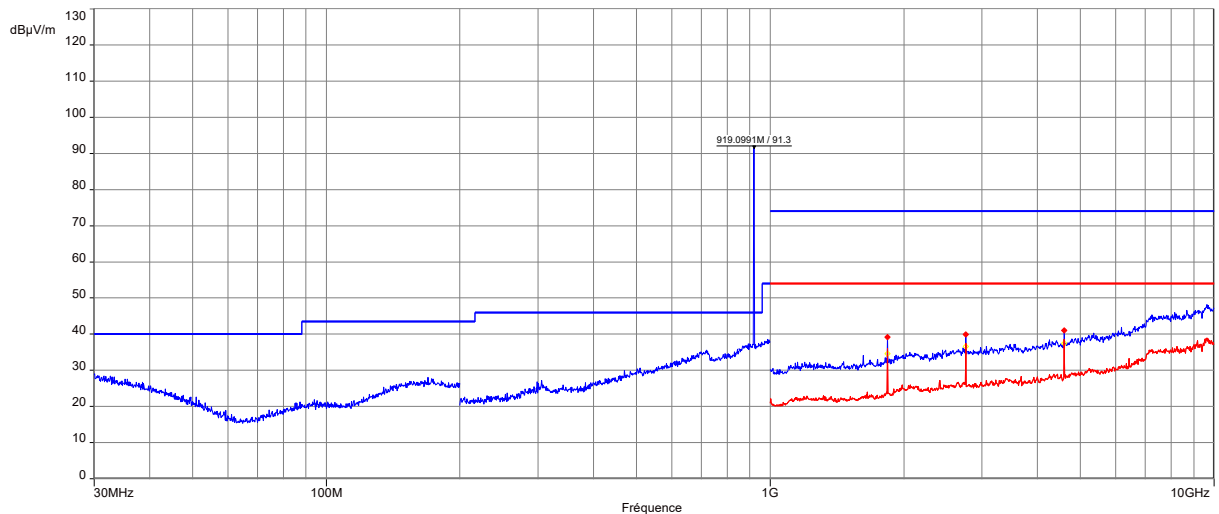
## Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 919.0 MHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION

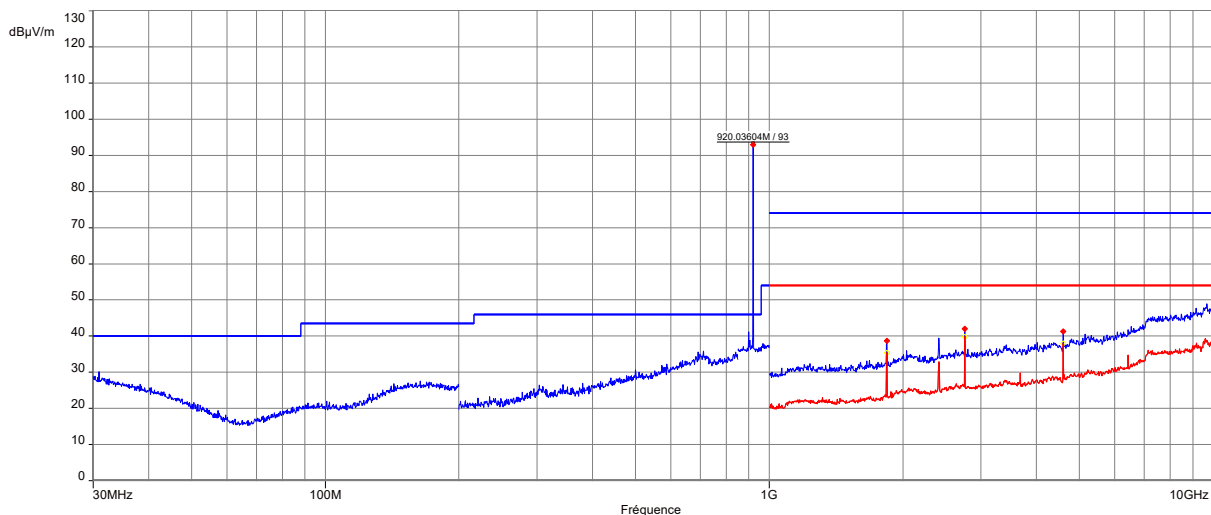


| FREQ (MHz)                       | Field Strength 3m PK (dBμV/m) | Field Strength 3m QP or AV (dBμV/m) | Limit PK (dBμV/m)                                                                               | Margin Peak (dBμV/m) | Limit QP or AV (dB) | Margin QP or AV (dBμV/m) | Table angle (°) | Ant height (m) | Total factor (dB) | Pol (H/V) | Detector & Limit |
|----------------------------------|-------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------|----------------------|---------------------|--------------------------|-----------------|----------------|-------------------|-----------|------------------|
| 1837.9524                        | 40.05                         | 34.97                               | 74.00                                                                                           | -33.95               | 54.00               | -19.03                   | 19.90           | 2.44           | -8.80             | H         | PK&AVG           |
| 2756.9007                        | 44.22                         | 40.49                               | 74.00                                                                                           | -29.78               | 54.00               | -13.51                   | 352.80          | 1.64           | -5.22             | H         | PK&AVG           |
| 4594.95531                       | 42.97                         | 37.13                               | 74.00                                                                                           | -31.03               | 54.00               | -16.87                   | 116.60          | 1.28           | -0.92             | H         | PK&AVG           |
| 1838.03219                       | 40.44                         | 35.33                               | 74.00                                                                                           | -33.56               | 54.00               | -18.67                   | 195.00          | 1.10           | -8.80             | V         | PK&AVG           |
| 2756.8734                        | 40.47                         | 33.95                               | 74.00                                                                                           | -33.53               | 54.00               | -20.05                   | 104.70          | 2.91           | -5.22             | V         | PK&AVG           |
| 4595.01459                       | 41.76                         | 34.61                               | 74.00                                                                                           | -32.24               | 54.00               | -19.39                   | 135.80          | 1.45           | -0.92             | V         | PK&AVG           |
| <b>Frequency and Limit band:</b> |                               |                                     | 30Mz-10GHz / FCC 15.209 / RSS-GEN                                                               |                      |                     |                          |                 |                |                   |           |                  |
| <b>RBW and Limit detector:</b>   |                               |                                     | Below 1GHz: RBW= 100kHz, Quasi-Peak Limit / above 1GHz: RBW= 1MHz, Peak and CISPR Average Limit |                      |                     |                          |                 |                |                   |           |                  |
| <b>Results</b>                   |                               |                                     | PASS                                                                                            |                      |                     |                          |                 |                |                   |           |                  |

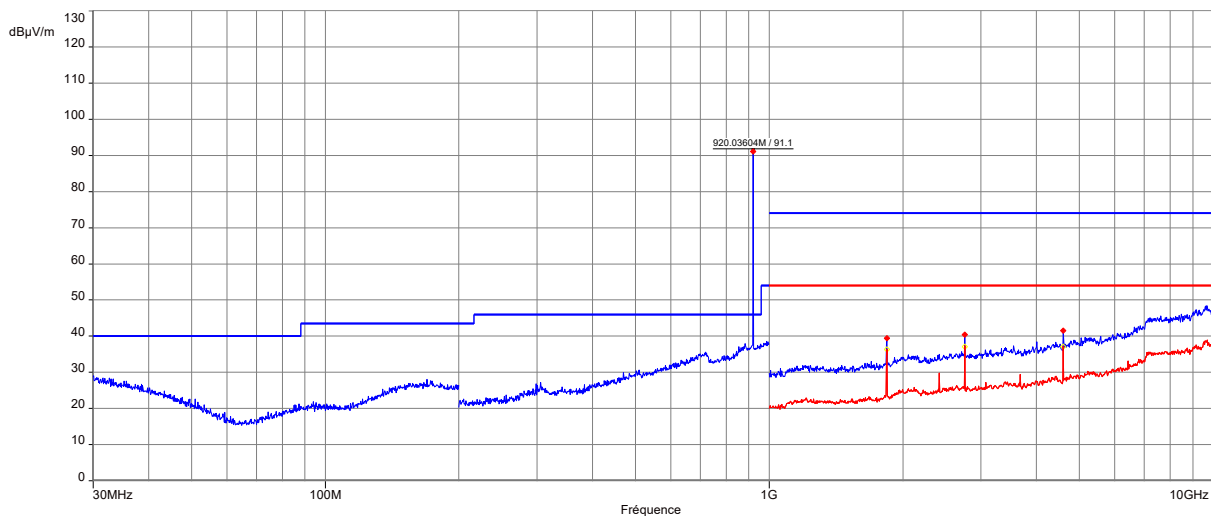
## Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 920.0 MHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION

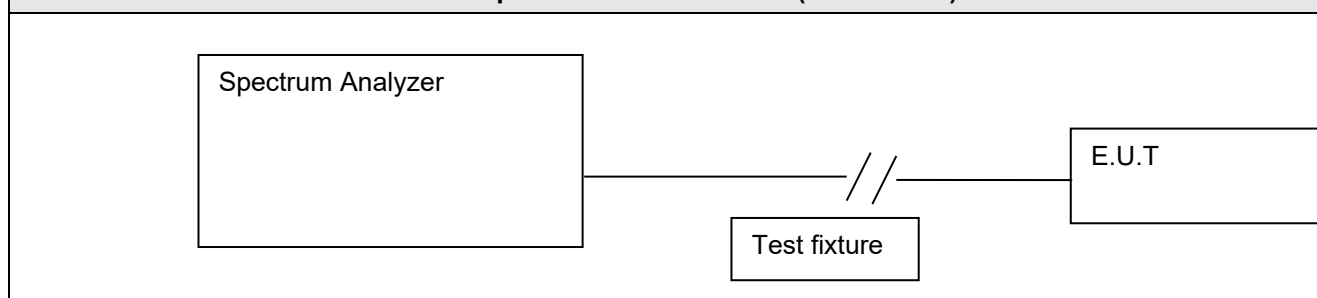


| FREQ (MHz)                | Field Strength 3m PK (dBμV/m) | Field Strength 3m QP or AV (dBμV/m) | Limit PK (dBμV/m)                                                                               | Margin Peak (dBμV/m) | Limit QP or AV (dB) | Margin QP or AV (dBμV/m) | Table angle (°) | Ant height (m) | Total factor (dB) | Pol (H/V) | Detector & Limit |
|---------------------------|-------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------|----------------------|---------------------|--------------------------|-----------------|----------------|-------------------|-----------|------------------|
| 1839.838745               | 40.5                          | 36.05                               | 74                                                                                              | -33.5                | 54                  | -17.95                   | 29              | 2.88           | -8.77             | H         | PK&AVG           |
| 2759.836245               | 42.83                         | 36.53                               | 74                                                                                              | -31.17               | 54                  | -17.47                   | 346.7           | 1.09           | -5.22             | H         | PK&AVG           |
| 4600.112504               | 42.39                         | 33.41                               | 74                                                                                              | -31.61               | 54                  | -20.59                   | 120.9           | 1.09           | -0.93             | H         | PK&AVG           |
| 1840.0207                 | 40.68                         | 36.23                               | 74                                                                                              | -33.32               | 54                  | -17.77                   | 178.4           | 1.1            | -8.77             | V         | PK&AVG           |
| 2759.81752                | 42.43                         | 36.13                               | 74                                                                                              | -31.57               | 54                  | -17.87                   | 33              | 1.87           | -5.22             | V         | PK&AVG           |
| 4600.00452                | 40.98                         | 32                                  | 74                                                                                              | -33.02               | 54                  | -22                      | 136.3           | 1.69           | -0.93             | V         | PK&AVG           |
| Frequency and Limit band: |                               |                                     | 30Mz-10GHz / FCC 15.209 / RSS-GEN                                                               |                      |                     |                          |                 |                |                   |           |                  |
| RBW and Limit detector:   |                               |                                     | Below 1GHz: RBW= 100kHz, Quasi-Peak Limit / above 1GHz: RBW= 1MHz, Peak and CISPR Average Limit |                      |                     |                          |                 |                |                   |           |                  |
| Results                   |                               |                                     | PASS                                                                                            |                      |                     |                          |                 |                |                   |           |                  |

## 12. Occupied bandwidth (99%)

| TEST: Occupied bandwidth (99%) / RSS-GEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                 | Verdict |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|---------|
| <p><u>Method:</u> The setup is in an anechoic chamber. The spectrum analyzer is connected to the measuring antenna. A radiated measurement is performed.</p> <p>The RBW is set in the range of 1% to 5% of the occupied bandwidth, with VBW ≥ 3 x RBW.</p> <p>The SPAN is wide enough to capture all products of the modulation process.</p> <p>A Peak detector is used.</p> <p>Measure is performed with OBW 99% function of the spectrum analyser.</p> <p>The tested equipment is set to transmit operation with modulation on low, mid and high channels.</p> |                            |                 | Pass    |
| Laboratory Parameters:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Required prior to the test | During the test |         |
| Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20 to 30 °C                | 22°C ± 2        |         |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30 to 70 %                 | 45% ± 5         |         |
| Supplementary information:<br>Test location: SMEE<br>Test date: July 30 <sup>th</sup> , 2025. Tested by C. KERMICHE                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                 |         |

### Test Setup for radiated emission (Test fixture)



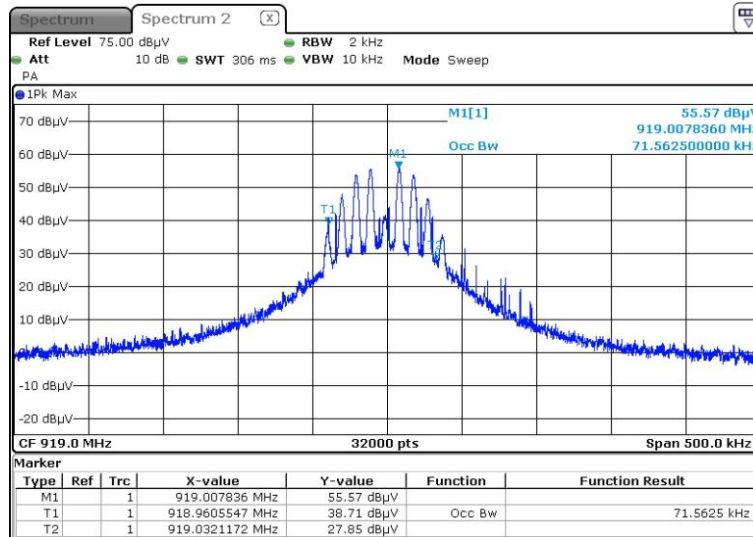
### Tabulated Results for 99% Occupied Bandwidth

| Frequency (MHz) | Results (kHz) |
|-----------------|---------------|
| 919.0           | 71.6          |
| 920.0           | 71.7          |

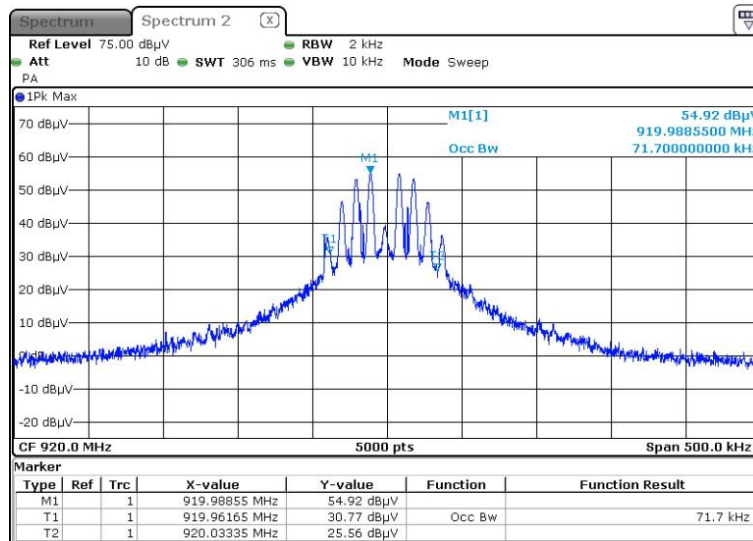
### Tabulated Results for 20dB Bandwidth

| Frequency (MHz) | Results (kHz) |
|-----------------|---------------|
| 919.0           | 78.1          |
| 920.0           | 78.3          |

## Graphical representation of 99% Occupied Bandwidth



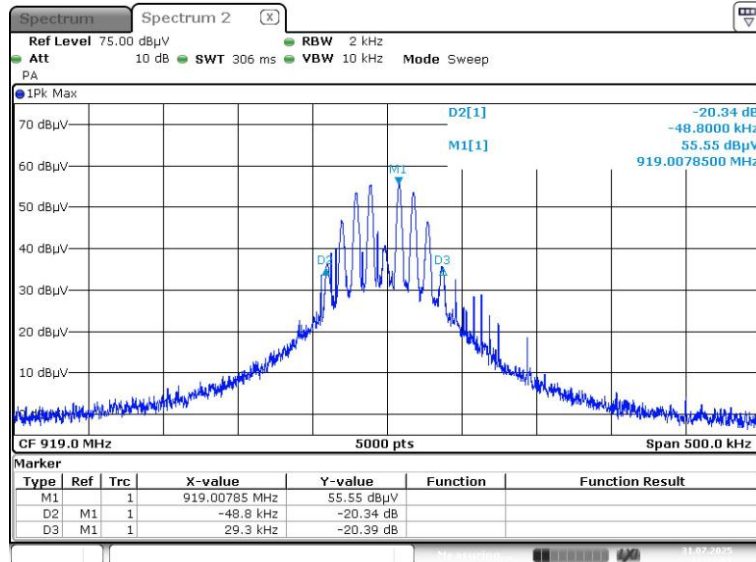
Low Channel



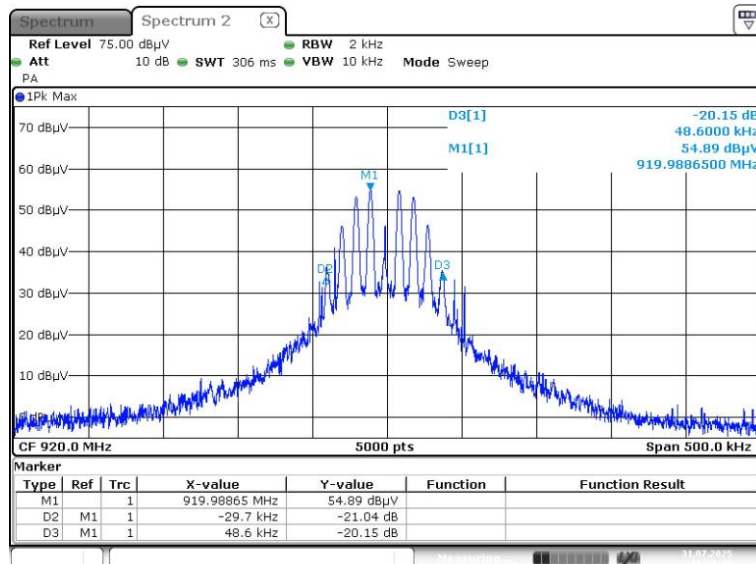
High Channel

|                              |                 |
|------------------------------|-----------------|
| Frequency band investigated: | 902 to 928MHz   |
| RBW / VBW :                  | 2kHz / 10kHz    |
| Measurement detector:        | Peak / Max hold |

## Graphical representation of 20dB Occupied Bandwidth



Low Channel



High Channel

|                              |                 |
|------------------------------|-----------------|
| Frequency band investigated: | 902 to 928MHz   |
| RBW / VBW :                  | 2kHz / 10kHz    |
| Measurement detector:        | Peak / Max hold |

### 13. Test Equipment List

| Description          | Manufacturer     | Model          | Identifier  | Cal. Date | Cal. Due |
|----------------------|------------------|----------------|-------------|-----------|----------|
| Controller           | Innco- Systems   | CO 3000        | ACC-141-045 | -         | -        |
| Horn antenna         | COM-POWER        | AH-118         | ANT-101-004 | 2024/09   | 2027/09  |
| Loop antenna         | EMCO             | 6502           | ANT-101-009 | 2023/09   | 2025/09  |
| Log-periodic antenna | EMCO             | 3146           | ANT-191-019 | 2024/03   | 2026/03  |
| Biconnic antenna     | COM-POWER        | AB- 900A       | ANT-201-021 | 2025/05   | 2027/05  |
| Spectrum analyzer    | Rohde&Schwarz    | FSV40          | ASP-171-004 | 2024/04   | 2026/10  |
| RF Attenuator        | RADIALL          | 10dB           | ATT-101-005 | 2025/05   | 2026/05  |
| RF cable             | HUBER+SUHNER     | SF126E (NN/2m) | CAB-231-043 | 2025/05   | 2026/05  |
| RF cable             | HUBER+SUHNER     | SF104E / 5.3m  | CAB-231-044 | 2025/05   | 2026/05  |
| RF cable             | HUBER+SUHNER     | SF126E / 7m    | CAB-231-045 | 2025/05   | 2026/05  |
| RF cable             | HUBER+SUHNER     | SF104E (NN/1m) | CAB-231-049 | 2025/05   | 2026/05  |
| Semi anechoic room   | COMTEST          | 218292         | CAG-201-002 | 2025/05   | 2028/05  |
| High-Pass filter     | Wainwright Inst. | HK6-948-1200   | FIL-141-004 | 2025/05   | 2026/05  |
| Antenna mast         | Innco- Systems   | MA4640-XP-ET   | MAT-201-002 | -         | -        |
| Turntable            | Innco- Systems   | DS1500-S-1t    | PLA-201-003 | -         | -        |
| Pre-amplifier        | COM-POWER        | 1-18GHz        | PRE-221-005 | 2025/05   | 2026/05  |
| Measuring receiver   | Rohde&Schwarz    | ESRP           | REC-151-002 | 2024/07   | 2027/01  |
| Ref. Comb generator  | SMEE             | EMR-10M        | REF-111-002 | -         | -        |
| Ref. Comb generator  | SMEE             | EMR 1-6GHz     | REF-141-003 | -         | -        |
| EMC Software         | NEXIO            | BAT EMC V2022  | SOF-101-001 | -         | -        |

END OF REPORT.