

File Number **24/36402946**

## TEST REPORT

### Electromagnetic Compatibility

**Petitioner's Reference:** LIBELIUM

Company Address: Av. María Zambrano, núm. 31, Edif WTC-Torre Este, planta 7

Represented by: Yuri Carmona

**Equipment:** SMART PARKING V3

Brand: LIBELIUM PMN: Smart Parking v3 NB-IoT

Sample #4: 00001/0015 Applus Id: 23589-00004

FCC Id #1: Not provided

**Result:** **complies**

It has been tested and complies with the applicable standard. See test result summary section.

**Applicable Standard:**

EMC standard/s: **FCC 47 CFR Part 15 Subpart B (October 2022)<sup>1</sup>**  
**ICES-003 Issue 7 – 2020 (updated October 2020)**

<sup>1</sup>The latest modifications of the standard, published at the date of the tests reported in this document, have been considered.

**Dates and Test Site:** Applus Barcelona, Bellaterra

Equipment Reception Date: April 9, 2024

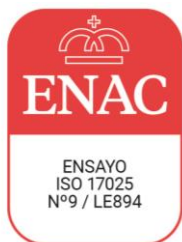
Test Initial Date: April 9, 2024

Test Final Date: April 10, 2024

**Test Manager:** David Camacho Gómez

**Date of issue:** Bellaterra, July 8, 2024

EMC & Wireless Technical Manager  
Electrical and Electronics  
LGAI Technological Center S.A.



The results refer only and exclusively to the sample, product or material delivered for testing, and tested under conditions stipulated in this document. The equipment has been tested under conditions stipulated by standard(s) quoted in this document. This document will not be reproduced otherwise than in full. This is the first page of the document, which consists of 23 pages.

## 1 TEST RESULTS SUMMARY

Test Description	Sample #	DUT Test Modes	Req. Criteria	Results	Criteria Note
RADIO-FREQUENCY RADIATED EMISSIONS (FCC Part 15.109, ICES-003 Issue 7 (3.2.2))	#4	Mode 1	CLASS A	PASS	CN4

The test results are shown in detail on the following pages.

The criteria to give conformity in those cases where it is not implicit in the standard or specification will be, for EMC emissions tests, a non-simple binary decision rule will be followed with a safety zone equal to the value of the uncertainty ( $w = U$ ).

In this case, the upper limit of the value of the probability of false acceptance, according to ILAC G8, is 2.5 % and the criteria notes are:

CN1: The measured results are above the upper limit, even considering the uncertainty interval.

CN2: The measured results are above the specified limits, but within the uncertainty interval. It is therefore not possible to state compliance based on the 95% level of confidence. However, the results indicate that non-compliance is more probable than compliance.

CN3: The measured results are below the specified limits, but within the uncertainty interval. It is therefore not possible to state compliance based on the 95% level of confidence. However, the results indicate that compliance is more probable than non-compliance.

CN4: The measured results are within the limits, including the uncertainty interval.

---

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[satisfaccion.cliente@applus.com](mailto:satisfaccion.cliente@applus.com)

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### 3 GENERAL DESCRIPTION OF TEST ITEMS

#### 3.1 EQUIPMENT DESCRIPTION

*This information has been provided by the customer and it is not covered by the accreditation. LGAI does not assume any responsibility from it.*

EQUIPMENT DESCRIPTION				
<b>Description</b>	Smart Parking IoT device to detect the presence of vehicles in parking spots			
<b>EUT Version</b>	<b>FVIN</b>		<b>HVIN</b>	
	V3.0		V3.1	
<b>Power supply</b>	Battery Powered	+/-	3.6 V	-- Hz
	<b>Applicability</b>	<b>Fixed Equipment</b>	<b>Vehicular Equipment</b>	<b>Portable Equipment</b>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Equipment Size</b>	<b>Length</b>		<b>Width</b>	
	200 mm		200 mm	
<b>Maximum internal frequency</b>	<b>Maximum internal frequency</b> ≥ 108 MHz			

Table 1: Equipment description

I/O CABLES						
	Port #	Name	Type	Cable length	Cable Shielded	Comments
<b>Description</b>	1	Mains	Battery	--	--	Provided by customer
	2	Communications	NB-IoT	--	--	Provided by customer

Table 2: Input/output ports description

RF FEATURES					
Description	Communication Technology	Radio Chipset	Brand	Module Model	Antenna Peak Gain
	NB-IoT	Qualcomm 212 LTE IoT Modem	Quectel	BC660K	2.5 dBi

Table 3: RF Features

**3.1.1 Samples**

<b>Sample #4</b>	
	
<b>Front View</b>	<b>Rear View</b>
	<p><b>Applus<sup>+</sup></b> laboratories ID Submuestra: 23589-00004 </p> <hr/> <p><b>Cliente:</b> LIBELIUM COMUNICACIONES <b>Código Oferta:</b> 5810210600_12_609977 <b>Fecha Recepción:</b> 09-04-2024 <b>Marca Muestra:</b> Modelo:</p>
<b>Manufacturer label</b>	<b>Applus ID</b>

Table 4: Sample #4 description

**3.1.2 Auxiliary Equipment**

N/A

### **3.1.3 DUT Modifications performed**

No modifications have been performed.

### 3.2 DUT TEST MODES

DUT Operation Modes		
Mode #	Description	Set-up
1	<b>Tx mode:</b> Device in normal operation, configured to transmit continuously	Table top

Table 5: DUT test modes

### 3.3 CONTROL AND MONITORING

N/A

Fig. 1: SW of control and monitoring

### 3.4 ACCEPTANCE CRITERIA

According to standard **FCC 47 CFR Part 15 Subpart B and ICES-003 Issue 7**

### 3.5 TEST FACILITIES ID

TEST FACILITIES ID	
FCC Test Firm Registration Number:	507478
ISED Assigned Code:	5766A
CABID	ES0001

Table 6: Test facilities ID

### 3.6 COMPETENCES AND GUARANTEES

LGAI Technological Center, S.A. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 9/LE894.

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## 4 TEST RESULTS

### 4.1 RADIO-FREQUENCY RADIATED EMISSIONS

#### 4.1.1 Test Setup Required

According to standard ANSI C63.4:2014

##### 4.1.1.1 Tabletop equipment

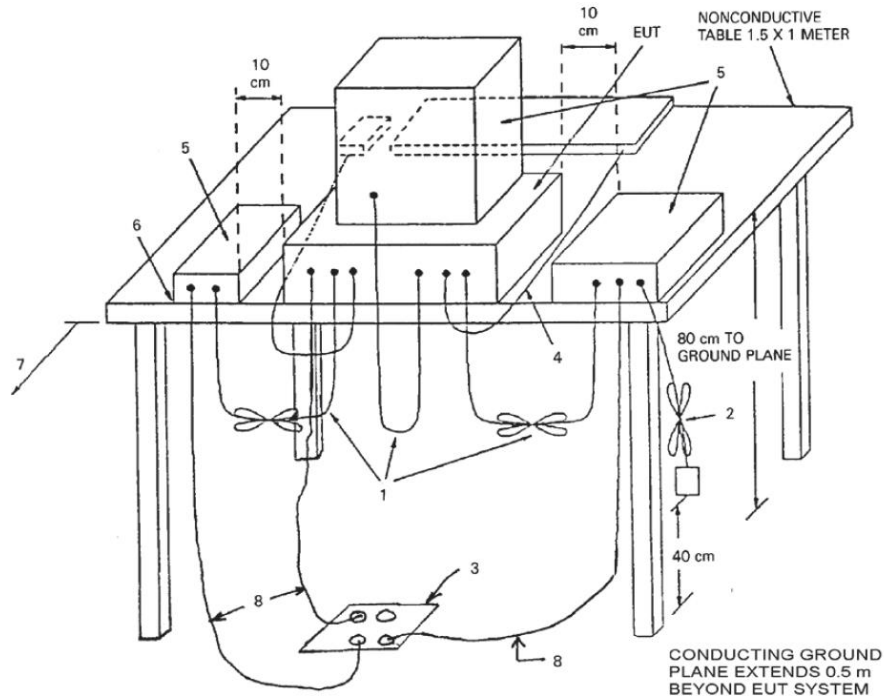


Fig. 2: Radio-frequency radiated emissions setup of table top equipment.

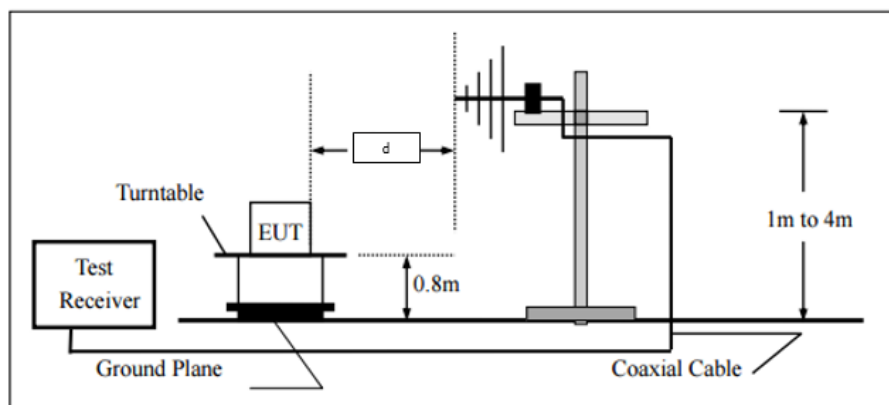


Fig. 3: Radio-frequency radiated emissions of table top equipment from 30 MHz to 1000 MHz

Distance "d" depends on test chamber.

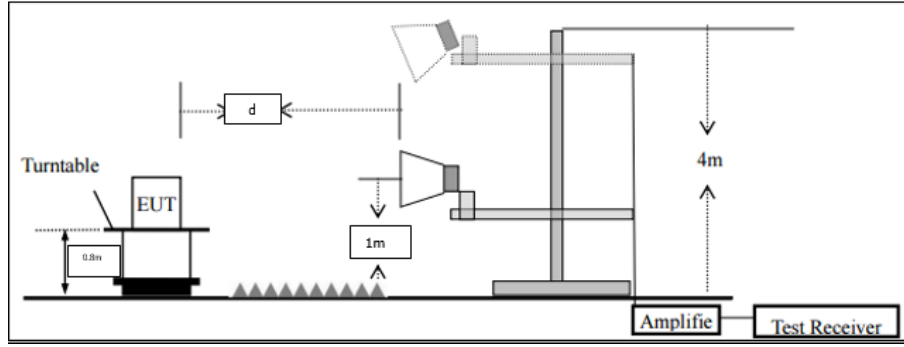


Fig. 4: Radio-frequency radiated emissions setup of table top equipment above 1 GHz

Distance "d" depends on test chamber.

#### 4.1.1.2 Floor standing equipment

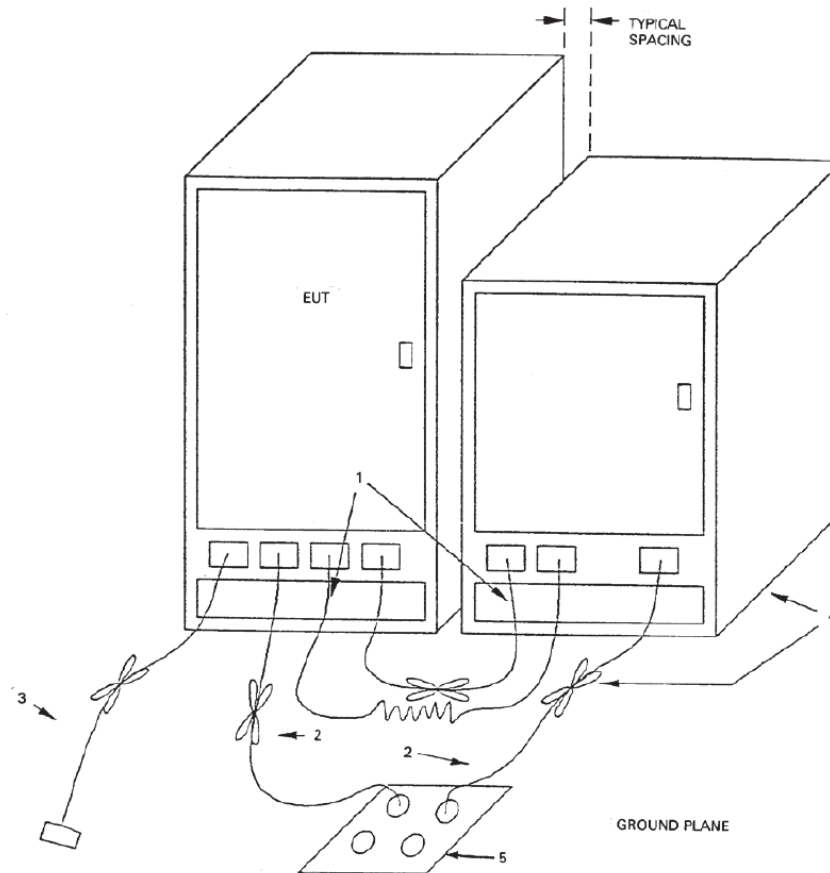


Fig. 5: Radio-frequency radiated emissions of floor-standing setup equipment.

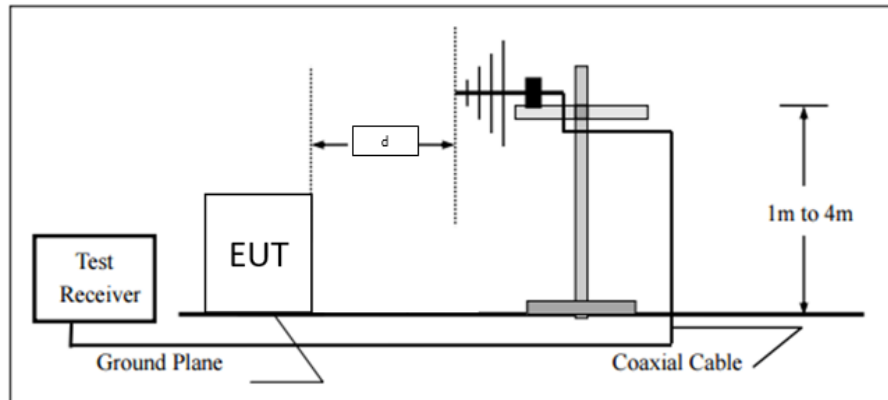


Fig. 6: Radio-frequency radiated emissions of floor-standing setup equipment from 30 MHz to 1000 MHz

Distance "d" depends on test chamber.

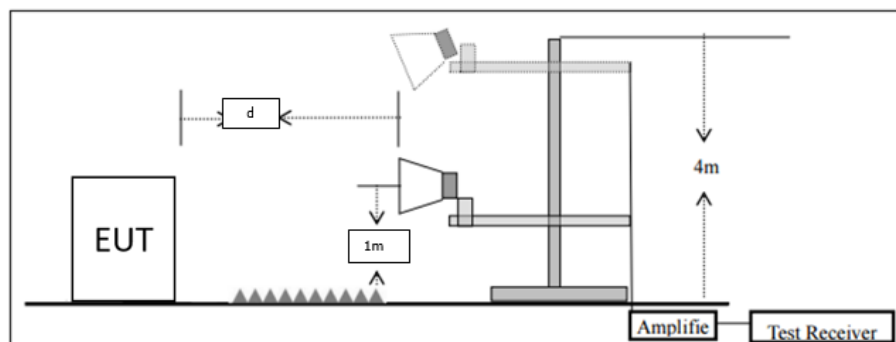


Fig. 7: Radio-frequency radiated emissions of floor-standing setup equipment above 1 GHz

Distance "d" depends on test chamber.

#### 4.1.2 Test Procedure

The test site, 3 or 10 m semi-anechoic chamber, has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.4-2014

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 30 MHz to 1 GHz in semi-anechoic chambers. The receiving antennas conform to specifications ANSI C63. These antennas can be moved over the height range between 1 m and 4 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received.

##### Pre-measurement

- The turntable rotates from 0° to 315° using 45° steps
- The antenna is polarized vertical and horizontal
- The antenna height changes from 1 m to 4 m
- At each turntable position, antenna polarization and height the receiver finds the maximum of all emissions

##### Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4
- Based on antenna and turntable positions at which the peak values are measured the software maximize the peaks by changing turntable position 360 ° and antenna height between 1 m and 4 m
- The final measurement is done with quasi-peak detector (as described in ANSI C63.4) for 30 MHz to 1 GHz emissions test
- The final measurement is done in the position (azimuth, height and antenna polarization) causing the highest emissions with Peak and RMS detector (as described in ANSI C63.4) for 1 GHz to 18 GHz test
- Final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factors, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is shown

##### Correction Factor:

Emission Level = Read Level + Corrections (Antenna Factor + Cable Loss – Amplifier Gain (if applies) + Attenuator (if applies))

### 4.1.3 Test Parameters

#### 4.1.3.1 Requirements

According to FCC Part 15.109:

Frequency Range [MHz]	Class A Equipment's					
	Quasi-peak detector (QP) [dBµV/m]		Peak detector (PK) [dBµV/m]		Average detector (AVG) [dBµV/m]	
	10 m measuring distance	3 m measuring distance <sup>1</sup>	8.5 m measuring distance <sup>2</sup>	3 m measuring distance <sup>3</sup>	8.5 m measuring distance <sup>2</sup>	3 m measuring distance <sup>3</sup>
30 – 288	39.0	49.5	N/A	N/A	N/A	N/A
88 – 216	43.5	54	N/A	N/A	N/A	N/A
216 – 960	46.4	56.9	N/A	N/A	N/A	N/A
960 – 1000	49.5	60	N/A	N/A	N/A	N/A
Above 1000	N/A	N/A	70.95	80	50.95	60

Table 7: Radio-frequency radiated emissions requirements – Class A equipment's

Note 1: The limits has been modified according to the applicable standard applying the formula:  $L_2 = L_1 - 20\log(d_2/d_1)$ , where:

$L_2$ : New Limit.

$L_1$ : Limit at 10 meters.

$d_1$ : 10 meters (standard distance).

$d_2$ : 3 meters (new measurement distance).

Note 2: The limits has been modified according to the applicable standard applying the formula:  $L_2 = L_1 - 20\log(d_2/d_1)$ , where:

$L_2$ : New Limit.

$L_1$ : Limit at 10 meters.

$d_1$ : 10 meters (standard distance).

$d_2$ : 8.5 meters (new measurement distance).

Note 3: The limits has been modified according to the applicable standard applying the formula:  $L_2 = L_1 - 20\log(d_2/d_1)$ , where:

$L_2$ : New Limit.

$L_1$ : Limit at 10 meters.

$d_1$ : 10 meters (standard distance).

$d_2$ : 3 meters (new measurement distance).

Frequency Range [MHz]	Class B Equipment's					
	Quasi-peak detector (QP) [dBµV/m]		Peak detector (PK) [dBµV/m]		Average detector (AVG) [dBµV/m]	
	10 m measuring distance <sup>1</sup>	3 m measuring distance	8.5 m measuring distance <sup>2</sup>	3 m measuring distance	8.5 m measuring distance <sup>2</sup>	3 m measuring distance
30 – 288	29.5	40	N/A	N/A	N/A	N/A
88 – 216	33.0	43.5	N/A	N/A	N/A	N/A
216 – 960	35.5	46	N/A	N/A	N/A	N/A
960 – 1000	43.5	54	N/A	N/A	N/A	N/A
Above 1000	N/A	N/A	65	74	45	54

Table 8: Radio-frequency radiated emissions requirements – Class B equipment's

Note 1: The limits has been modified according to the applicable standard applying the formula:  $L_2 = L_1 - 20\log(d_2/d_1)$ , where:

$L_2$ : New Limit.

$L_1$ : Limit at 3 meters.

$d_1$ : 3 meters (standard distance).

$d_2$ : 10 meters (new measurement distance).

Note 2: The limits has been modified according to the applicable standard applying the formula:  $L_2 = L_1 - 20\log(d_2/d_1)$ , where:

$L_2$ : New Limit.

$L_1$ : Limit at 3 meters.

$d_1$ : 3 meters (standard distance).

$d_2$ : 8.5 meters (new measurement distance).

According to ICES-003 Issue 7 (3.2.2):

Class A Equipment's						
Frequency Range [MHz]	Quasi-peak detector (QP) [dBµV/m]		Peak detector (PK) [dBµV/m]		Average detector (AVG) [dBµV/m]	
	10 m measuring distance	3 m measuring distance <sup>1</sup>	8.5 m measuring distance <sup>1</sup>	3 m measuring distance	8.5 m measuring distance <sup>1</sup>	3 m measuring distance
30 – 288	40.0	50.0	N/A	N/A	N/A	N/A
88 – 216	43.5	54.0	N/A	N/A	N/A	N/A
216 – 230	46.4	56.9	N/A	N/A	N/A	N/A
230 – 960	47.0	57.0	N/A	N/A	N/A	N/A
960 – 1000	49.5	60.0	N/A	N/A	N/A	N/A
Above 1000	N/A	N/A	71	80	51	60

Table 9: Radio-frequency radiated emissions requirements – Class A equipment's

Class B Equipment's						
Frequency Range [MHz]	Quasi-peak detector (QP) [dBµV/m]		Peak detector (PK) [dBµV/m]		Average detector (AVG) [dBµV/m]	
	10 m measuring distance	3 m measuring distance	8.5 m measuring distance <sup>1</sup>	3 m measuring distance	8.5 m measuring distance <sup>1</sup>	3 m measuring distance
30 – 288	30.0	40.0	N/A	N/A	N/A	N/A
88 – 216	33.1	43.5	N/A	N/A	N/A	N/A
216 – 230	35.6	46.0	N/A	N/A	N/A	N/A
230 – 960	37.0	47.0	N/A	N/A	N/A	N/A
960 – 1000	43.5	54.0	N/A	N/A	N/A	N/A
Above 1000	N/A	N/A	65	74	45	54

Table 10: Radio-frequency radiated emissions requirements – Class B equipment's

Note 1: The limits has been modified according to the applicable standard applying the formula:  $L_2 = L_1 - 20\log(d_2/d_1)$ , where:  
 $L_2$ : New Limit.

$L_1$ : Limit at 3 meters.

$d_1$ : 3 meters (standard distance).

$d_2$ : 8.5 meters (new measurement distance).

#### 4.1.3.2 Receiver Parameters

According to standard ANSI C63.4:2014:

Frequency Range [MHz]	Detector	Resolution Bandwidth [MHz]	Video Bandwidth [MHz]
30 – 1000	Quasi-peak (QP)	0.12	0.30
Above 1000	Peak (PK)	1	3
	Average (AVG)	1	10·10 <sup>-6</sup>

Table 11: Receiver parameters – Radio-frequency radiated emissions

#### 4.1.4 Test Environmental Conditions

Test Date	Technician	Supervisor	Temperature [°C]	Humidity [%]	Atm. Pressure [mbar]
22/04/2024	O. Merchan	--	21.5	42	1008

Table 12: Test environmental conditions – Radio-frequency radiated emissions

#### 4.1.5 Summary Test Results

Frequency Range <sup>1</sup> [MHz]	Equipment Class	Test Area	Distance [m]	Emissions	Results
30 – 1000	A	SAC 1	3	QP < Limit - I	PASS
1000 – 6000	A	SAC 1	3	PK < Limit - I	PASS
6000 – 13500	A	SAC 1	3	PK < Limit - I	PASS

Table 13: Summary test results – Radio-frequency radiated emissions

Note 1: Upper limit according to the fifth harmonic of the maximum internal frequency declared by the manufacturer or to 40 GHz, whichever is lower.

**4.1.6 Test Setup Photographs**

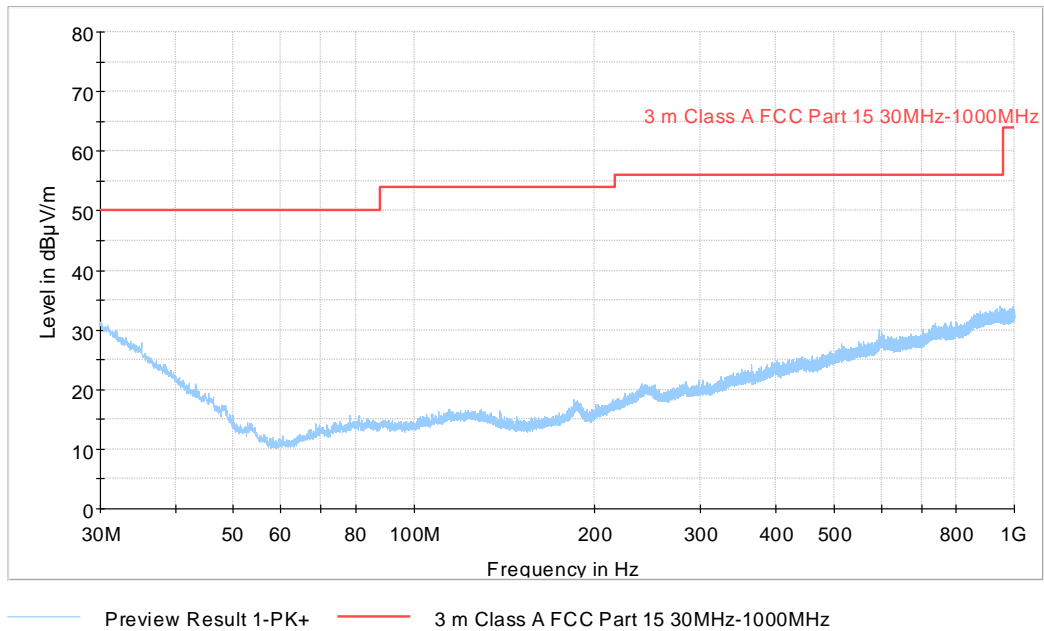
**RADIO-FREQUENCY RADIATED EMISSIONS – TEST SETUP**



Table 14: Radio-frequency radiated emissions test setup

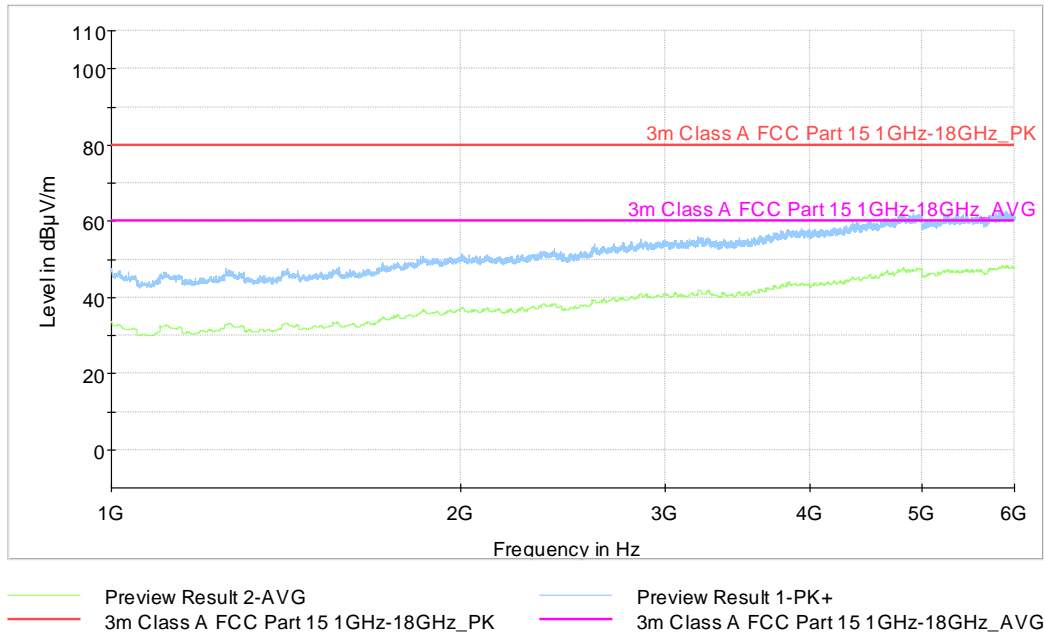
**4.1.7 Test Results**

**4.1.7.1 Ambient Levels. Frequency range: 30 MHz – 1 GHz**



**Fig. 8: Ambient level. Frequency range: 30 MHz – 1 GHz**

**4.1.7.2 Ambient Levels. Frequency range: 1 GHz – 6 GHz**



**Fig. 9: Ambient level. Frequency range: 1 GHz – 6 GHz**

4.1.7.3 Ambient Levels. Frequency range: 6 GHz – 13.5 GHz

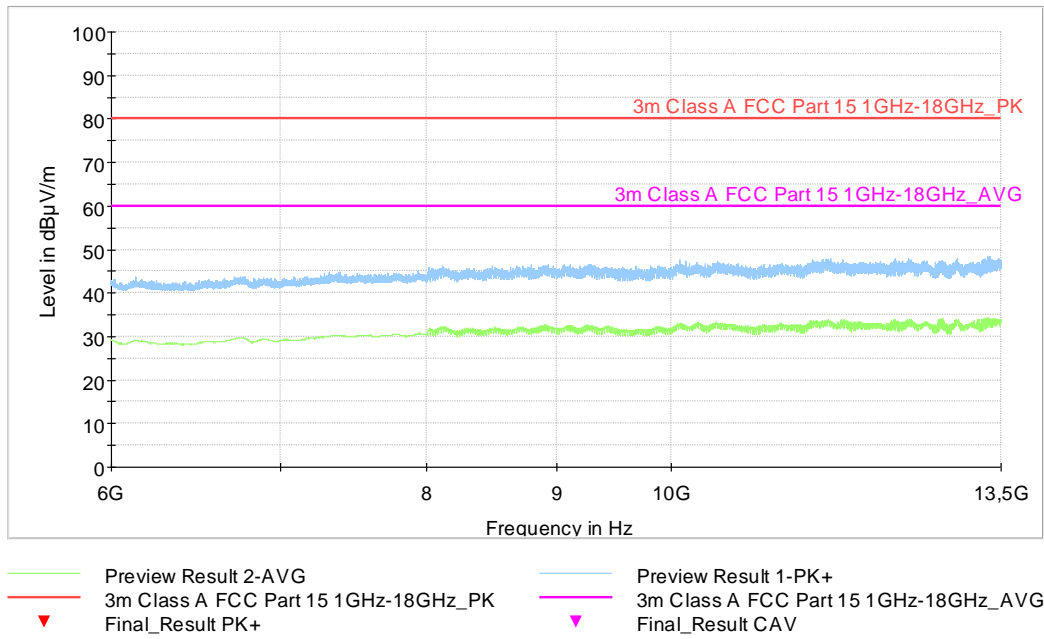
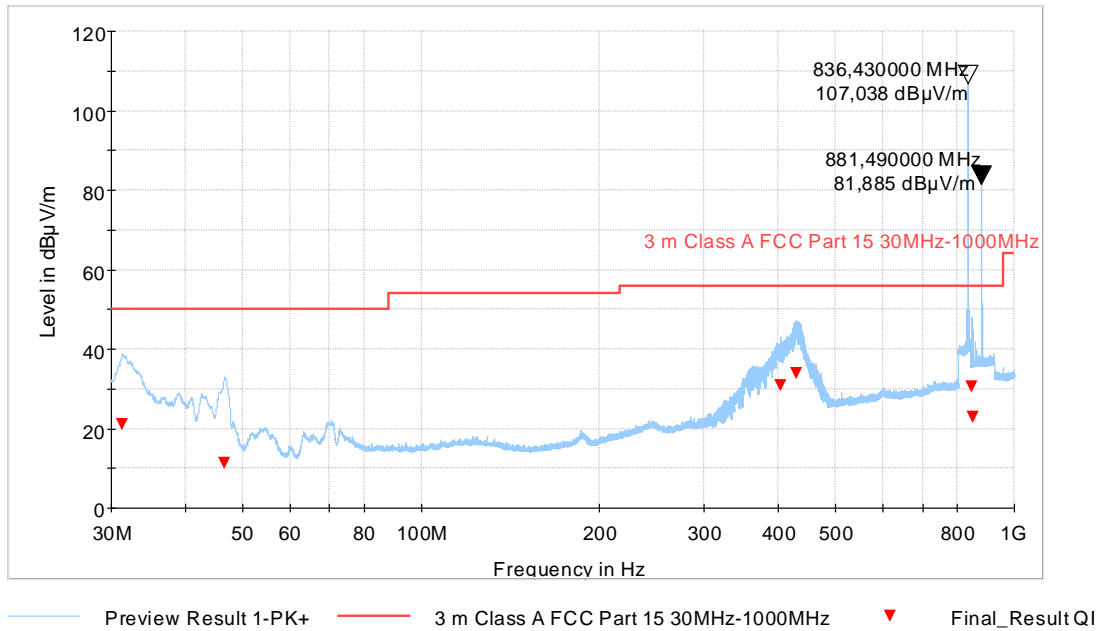


Fig. 10: Ambient level. Frequency range: 6 GHz – 13.5 GHz

**4.1.7.4 Sample #1. Mode 1. Frequency range: 30 MHz – 1 GHz**

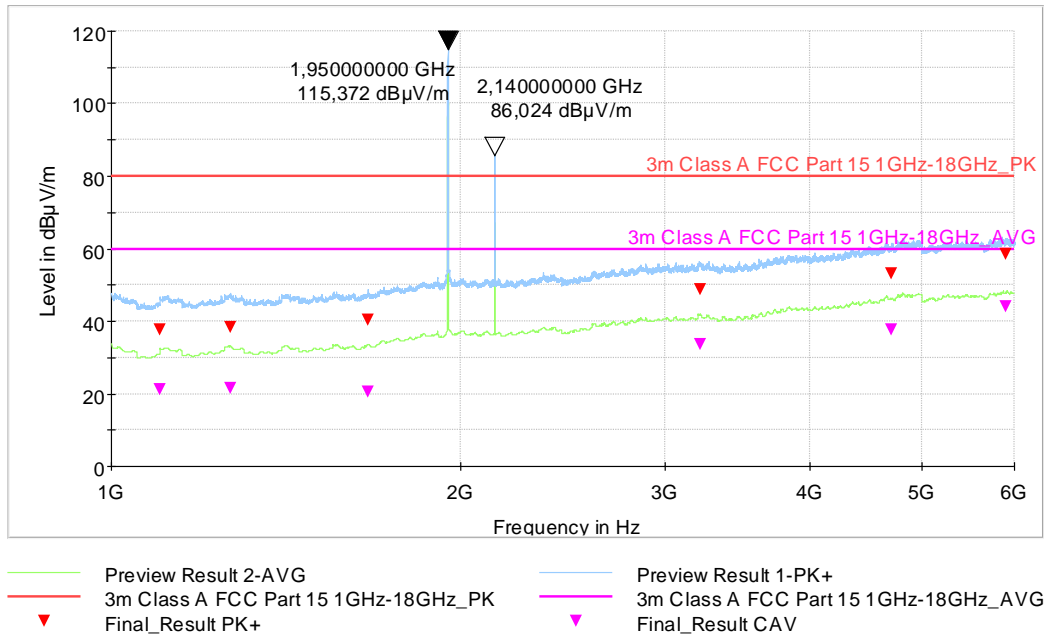


**Fig. 11: Sample #1. Mode 1. Frequency range: 30 MHz – 1 GHz**

Note: According to FCC Part 15B the frequency's, 836.43 MHz and 881.49 MHz are contained in the excluded bands.

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.350	20.9	50.00	30.0	400.0	V	202.0	26.0
46.590	11.2	50.00	38.8	100.0	V	234.0	14.6
403.800	30.8	56.00	25.2	100.0	H	274.0	21.5
430.050	34.0	56.00	22.0	195.0	H	272.0	22.1
846.240	30.4	56.00	25.6	100.0	H	237.0	28.4
852.720	22.8	56.00	33.2	227.0	H	98.0	28.8

**4.1.7.5 Sample #1. Mode 1. Frequency range: 1 GHz – 6 GHz**

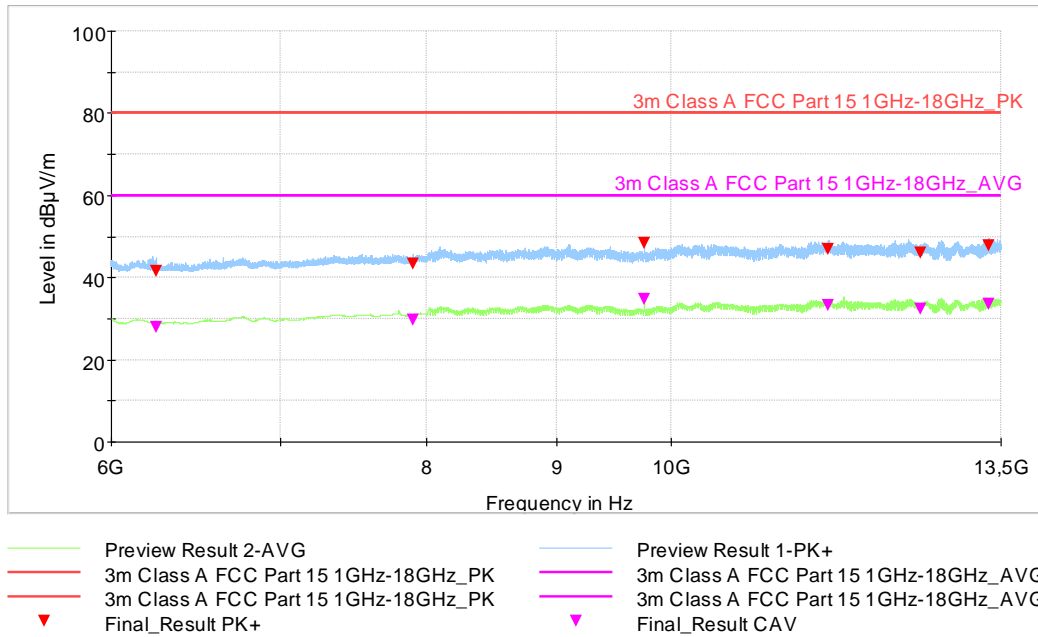


**Fig. 12: Sample #1. Mode 1. Frequency range: 1 GHz – 6 GHz**

Note: According to FCC Part 15B the frequency's, 1.95 GHz and 2.14 GHz are contained in the excluded bands.

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1101.250	37.5	80.00	42.5	21.1	60.00	38.9	216.0	H	185.0
1265.500	38.5	80.00	41.5	21.5	60.00	38.5	174.0	H	211.0
1663.500	40.4	80.00	39.6	20.7	60.00	39.3	379.0	V	253.0
3216.750	48.6	80.00	31.4	33.6	60.00	26.5	400.0	H	0.0
4700.000	53.2	80.00	26.8	37.7	60.00	22.2	123.0	V	100.0
5898.750	58.5	80.00	21.5	44.1	60.00	15.9	106.0	V	5.0

**4.1.7.6 Sample #1. Mode 1. Frequency range: 6 GHz – 13.5 GHz**



**Fig. 13: Sample #1. Mode 1. Frequency range: 6 GHz – 13.5 GHz**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
6250.500	41.6	80.00	38.4	27.9	60.00	32.1	100.0	V	332.0
7896.250	43.2	80.00	36.8	29.6	60.00	30.4	100.0	V	0.0
9749.750	48.3	80.00	31.7	34.9	60.00	25.2	147.0	V	262.0
11534.250	46.9	80.00	33.1	33.3	60.00	26.7	100.0	H	0.0
12547.000	45.9	80.00	34.1	32.5	60.00	27.6	100.0	V	0.0
13353.000	47.8	80.00	32.2	33.4	60.00	26.6	100.0	V	352.0

**4.1.8 Test Equipment Used**

<b>Equipment</b>	<b>Brand</b>	<b>Model</b>	<b>Applus Ref.</b>	<b>Last Calibration</b>	<b>Next Calibration</b>
EMI RECEIVER	R&S	ESW 26	1041791	14/11/2023	14/11/2024
BILOG ANTENNA	SCHAWARZBECK	VULB 9164	1042740	08/11/2023	08/11/2024
HORN ANTENNA	EMCO	3115	05-ER-182	08/11/2023	08/11/2024
ATENUADOR 3 DB	HUBER/SUHNER	6803.17.B	1042021	25/05/2023	25/05/2024
CABLE	HUBER/SUHNER	SF103/11N/16N/4000MM	1041964	22/06/2023	22/06/2024
CABLE	HUBER&SUHNER	SF126E Cable de 8m	1042728	21/08/2023	21/08/2024
RF CABLE (WALL PANEL),	--	--	1042868	07/02/2024	07/02/2025
RF PREAMPLIFIER	BONN ELEKTRONIK	BLMA 0118-M	1041733	12/05/2023	12/05/2024
TEST SOFTWARE	ROHDE & SCHWARZ	EMC32 v.10.50.00	104624	--	--
MAST-TABLE CONTROLLER	MATURO	NCD/052/8931211	1042757	--	--

**Table 15: Test Instruments – Radio-frequency radiated emissions**

#### 4.1.9 Uncertainty

Test Type	Test Description	Uncertainty
Emissions	RADIO-FREQUENCY RADIATED EMISSIONS 30 MHz – 1 GHz	± 5.3 dB
Emissions	RADIO-FREQUENCY RADIATED EMISSIONS 1 GHz – 6 GHz	± 5.3 dB
Emissions	RADIO-FREQUENCY RADIATED EMISSIONS 6 GHz – 18 GHz	± 5.5 dB
Emissions	RADIO-FREQUENCY RADIATED EMISSIONS 18 GHz – 26 GHz	± 5.1 dB
Emissions	RADIO-FREQUENCY RADIATED EMISSIONS 26 GHz – 40 GHz	± 5.6 dB

**Table 16: Radio-frequency radiated emissions measuring Uncertainties**

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by a coverage factor  $k=2$ , which for normal distribution corresponds to a coverage probability of approximately 95%.