

FCC ISED Test Report (Collocation)
December 9, 2025

Dejero
Mohamed Hussein
410 Albert Street #200
Waterloo, Ontario ON N2L 3V3

Dear Mohamed Hussein,

Enclosed is the Electromagnetic Compatibility for the Dejero, Titan Command (CommandM3E4), tested to the requirements of:

- FCC KDB 996369 D04 Module Integration Guide

Thank you for using the services of Eurofins E&E Testing NA, LLC. Please contact me if you have any questions regarding these results or if Eurofins E&E can be of further service to you.

Sincerely,

Rheine Nguyen

Documentation Department
Eurofins E&E Testing NA, LLC.

Reference: WIRS139956-FCC KDB Rev. 1



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Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	December 9, 2025	Initial Issue.
1	December 10, 2025	Configuration and Title Updated.

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1.0 Testing Summary

The Dejero, Titan Command (CommandM3E4) was found to be compliant to the following specification(s).

- FCC KDB 996369 D04 Module Integration Guide



Daylon Davis
WIR Laboratory Engineer

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements.

2.0 Overview

Eurofins E&E Testing NA, LLC. was contracted by Dejero to perform testing on the Titan Command (CommandM3E4), under purchase order number PO022151.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of Dejero, Titan Command (CommandM3E4).

The results obtained relate only to the item(s) tested.

Model(s) Tested:	Titan Command (CommandM3E4)
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2.1 Test Site

All testing was performed at Eurofins E&E Testing NA, LLC., 3162 Belick St. Santa Clara, CA 95054. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology. Eurofins E&E Testing NA, LLC. has been accredited by the American Association for Laboratory Accreditation (A2LA) (Certificate #: 0591.02) in accordance with ISO/IEC 17025:2017.

2.2 Equipment Overview and Test Configuration

Name of EUT/Model:	Titan Command CommandM3E4
Additional Models Covered, but not tested:	
Description of EUT and Intended Use:	A multi connection mobile gateway. Titan Command hosts 3 cellular modems (Telit Cinterion FN990A40-HP) and a WiFi card (ublox M2-JODY-W377-00C).
Mode(s) of Operation:	All transmitting radios were placed into test mode simultaneously and set to worst-case Tx power for each selected band of operation.
Rationale for the selection of the Operation Mode(s):	This simulates worst-case simultaneous operation of all collocated transmitters.
EUT Power Requirement	
Voltage:	8 to 36 V
AC or DC	DC
Voltage Frequency:	N/A
Number of Phases:	N/A
Amperage:	N/A
Uses an external AC/DC Adapter:	N/A
Battery Return Configuration (DC-C, DC-I, or either):	N/A
Physical Description	
EUT Arrangement:	
System with Multiple Chassis:	No
Size (HxWxD) inches:	6.0 x 32.8 x 25.7 cm

Weight (lbs):	2.6 kg
Other Info:	
Highest frequency used in device:	6000 MHz
EUT Software (internal to EUT):	Linux
Support Software (used by support PC to exercise EUT):	Connection to EUT via web browser

Antenna	Manufacturer	Part number	Peak gain (dBi)
Full Band WWAN	Dejero Labs Inc.	2-6110900-A01	7.08
Mid/High Band WWAN	Dejero Labs Inc.	2-6111900-A00	7.56
WiFi	Dejero Labs Inc.	2-6111100-A01	5.3

Antenna information was provided by the client. Eurofins E&E Testing NA, LLC did not test or verify the accuracy of the antenna information.

2.3 Modifications to the EUT

No modifications were made to the EUT.

2.4 Modifications to the Standard

No modifications were made to the Test Standard.

2.5 Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electromagnetic Compatibility Lab for testing was returned to Dejero upon completion of testing.

3.0 Electromagnetic Compatibility Criteria for Intentional Radiators

3.1 Radiated Spurious Emissions

Test Method: ANSI C63.26: 2015 and FCC KDB 996369 D04 V.02 Module Integration Guide

Test Requirement(s): The following standards specified below are covered in the scope of this section of the test report:

- **FCC Part 2.947 – Measurement Procedures**
 - **2.947(a):** All measurements shall be performed using calibrated test equipment and facilities that meet the accuracy and technical requirements specified by the FCC.
 - **2.947(b):** Measurements shall be performed at a test site compliant with ANSI C63.4 or ANSI C63.26, as applicable for intentional radiators.
 - **2.947(c):** All measurement setups, procedures, and equipment configurations shall be documented to ensure repeatability and compliance.
 - **2.9457(d):** Alternate measurement procedures may be used when justified, provided they yield equivalent results and are documented per FCC requirements.
- **FCC KDB 996369 D04 – Module Integration Guide**
 - Guidance from KDB 996369 D04 applied to ensure proper module evaluation, installation requirements, labeling, end-user information, and host integration considerations when applicable.
 - Emission measurements and reporting follow the integration and test configuration requirements specified in the KDB to ensure compliance for modular approval.

Sample Calculation for Distance Correction factor (DCF) measurement:

$$F_d = 20 \cdot \log_{10} (D_m/D_s)$$

where:

$$F_d = \text{Distance Factor in dB}$$

$$D_m = \text{Measurement Distance in meters}$$

$$D_s = \text{Specification Distance in meters}$$

Sample formula for calculating the Corrected Data for the Radiated Emissions Measurements:

Frequency (MHz)	Antenna Polarity	EUT Azimuth (Degrees)	Antenna Height (cm)	Uncorrected Amplitude (dBμV)	ACF (dB/m) (+)	Pre Amp Gain (dB)(-)	CBL (dB) (+)	DCF (dB) (+)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
249.99	V	359.9	240.7	55.46	11.4	28.335	0	0	38.505	47	-8.495

$$\begin{aligned} \text{Corrected Amplitude (dB}\mu\text{V/m)} &= \text{Uncorrected Amplitude (dB}\mu\text{V)} + \text{ACF (dB/m)} - \text{Preamp Gain (dB)} + \text{CBL (dB)} + \text{DCF (dB)} \\ &= 55.46 + 11.4 - 28.335 + 0 + 0 = \mathbf{38.505} \end{aligned}$$

Test Procedure:

The method of testing, test conditions, and test procedures of ANSI C63.26: 2015 were used in addition to FCC KDB 996369 D04 Module Integration Guide. Any measured frequency that exhibits a margin of compliance that is less than 3 dB below the specification limit is marked. Eurofins E&E recommends that every emission measured, has at least a 3 dB margin to allow for deviations in the emission characteristics that may occur during the production process. All transmitting radios were placed into test mode simultaneously and set to worst-case Tx power for each selected band of operation.

For emissions between 30 MHz and 1000 MHz, the EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber a biconilog antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. Unless otherwise specified, measurements were made using a quasi-peak detector with a 120 kHz resolution bandwidth.

For emissions between 1 GHz and 18 GHz, a double ridged guide horn was located 3 m from the EUT on an adjustable mast. The EUT as placed on a non-metallic table 150 cm above the ground plane inside a semi-anechoic chamber. A pre-scan was performed and used to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied depending on the geometry of the EUT. In order to ensure maximized emissions, the horn antenna was positioned both vertically and horizontally. Unless otherwise specified, measurements were made using a peak and average detector with a 1 MHz resolution bandwidth.

For emission between 18 GHz and 40 GHz, a high frequency standard gain horn antenna was located 3 m from the EUT on an adjustable mast. The EUT as placed on a non-metallic table 150 cm above the ground plane inside a semi-anechoic chamber. A pre-scan was performed and used to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated, and the antenna height was varied depending on the geometry of the EUT. In order to ensure maximized emissions, the horn antenna was positioned both vertically and horizontally. Unless otherwise specified, measurements were made using a peak and average detector with a 1 MHz resolution bandwidth.

Due to the size of the EUT, pre-liminary measurements were performed with the EUT rotated on different axis (X, Y, Z). The worst-case data is presented in this report.

Test Software Used:

Nexio BAT-EMC was used to perform this test.

Test Results:

Test Standard:	FCC KDB 996369 D04 Module Integration Guide v02; ANSI C63.26-2015
Test Name	Radiated Spurious Emissions
Test Dates:	12/02/2025
Laboratory	Eurofins E&E Testing NA, LLC.
Test Engineer:	Daylon Davis
Test Results:	Compliant
Ambient Temperature (°C):	27.6
Relative Humidity (%):	25
Atmospheric Pressure (kPa):	1127

Test Summary

Radiated Emissions					
Frequency Range	Specification	Measurement (MHz)	Margin (dB)	Class	Compliance
30 MHz – 1 GHz	FCC 47 CFR Part 2.947	59.264	-7.663	A	In compliance.
1 GHz – 18GHz	FCC 47 CFR Part 2.947	2776	-14.221		In compliance
18 GHz – 26GHz	FCC 47 CFR Part 2.947	18249.6	-45.261		In compliance
26GHz - 40GHz	FCC 47 CFR Part 2.947	36869.925	-43.515		In compliance

Test Data

Frequency (MHz)	Quasi-Peak (dBμV/m)	QP Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW	Correction (dB)
59.176	27.489	40	-12.511	3.072	27	Vertical	120000	-14.268
59.264	32.337	40	-7.663	3.072	286	Horizontal	120000	-14.969
59.358	22.096	40	-17.904	2.368	220	Vertical	120000	-14.229
121.332	12.144	43.5	-31.356	3.616	142	Vertical	120000	-9.497
137.078	12.709	43.5	-30.791	3.392	232	Horizontal	120000	-9.087
176.272	10.073	43.5	-33.427	3.872	58	Horizontal	120000	-12.785

Table 1. Radiated Spurious Emissions, (30 MHz – 1 GHz) Test Results

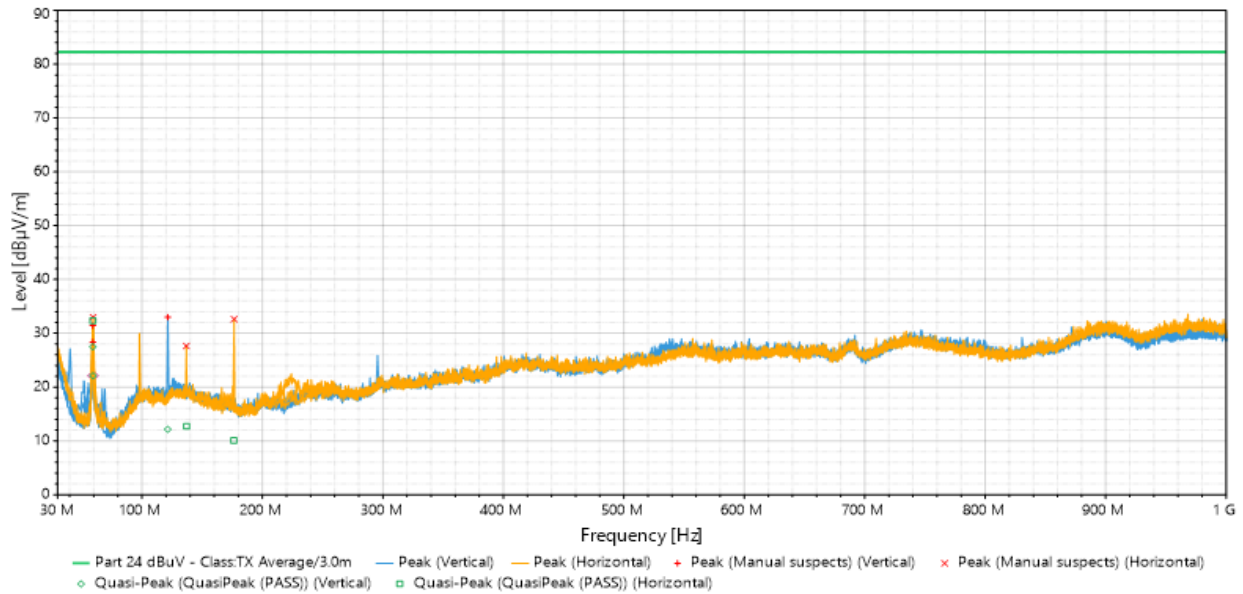


Figure 1. Radiated Spurious Emissions, (30 MHz – 1 GHz) Plot

Frequency (MHz)	Average (dBμV/m)	Avg Limit (dBμV/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW	Correction (dB)
1585	67.681	82.26	-14.579	1.248	246	Horizontal	1000000	-4.044
1673	62.171	82.26	-20.089	2.816	71	Vertical	1000000	-2.892
2776	63.811	82.26	-18.449	1.088	106	Vertical	1000000	0.236
2776	68.039	82.26	-14.221	1.024	359	Horizontal	1000000	0.24
3760	58.471	82.26	-23.789	1.03	49	Vertical	1000000	2.009
3760	62.758	82.26	-19.502	1.056	238	Horizontal	1000000	1.769

Table 2. Radiated Spurious Emissions, (1 GHz – 18GHz) Test Results

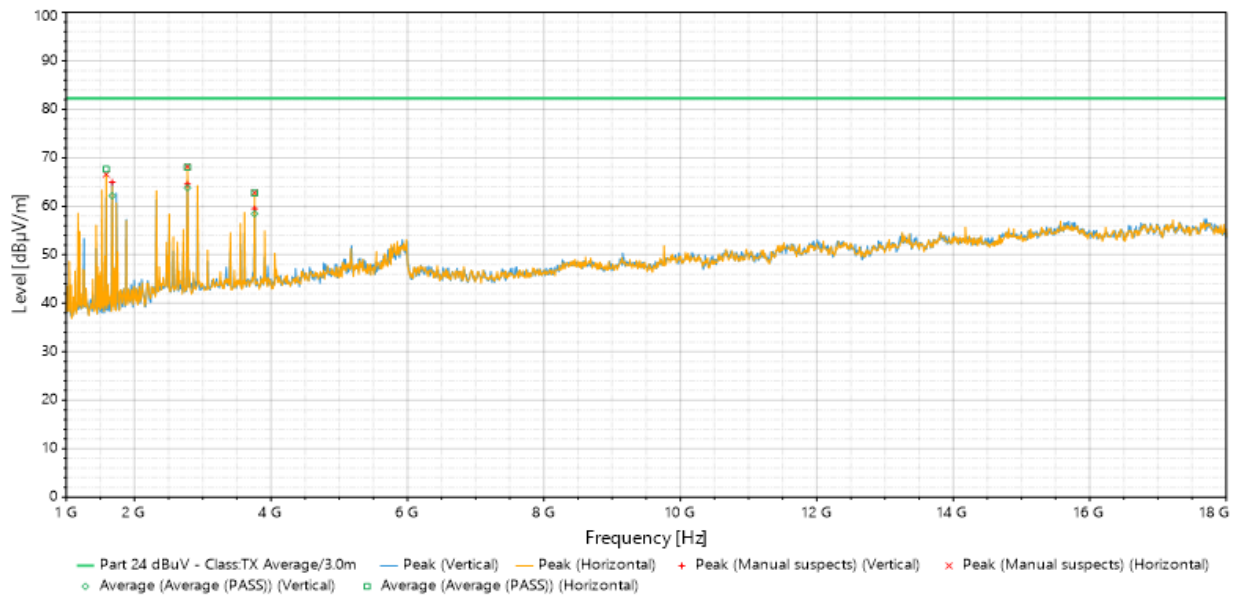


Figure 2. Radiated Spurious Emissions, (1 GHz – 18GHz) Plot

Frequency (MHz)	Average (dB μ V/m)	Avg Limit (dB μ V/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW	Correction (dB)
18249.6	36.999	82.26	-45.261	3.136	229	Horizontal	1000000	-0.965
24377.6	34.475	82.26	-47.785	3.2	67	Vertical	1000000	-1.647

Table 3. Radiated Spurious Emissions, (18 GHz – 26GHz) Test Results

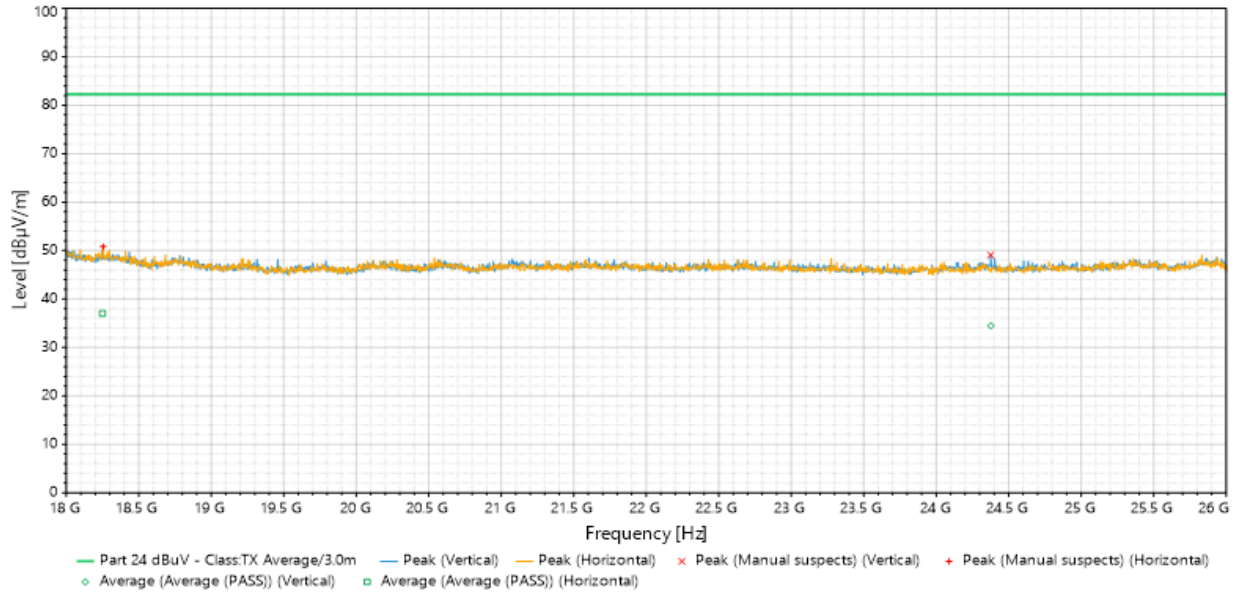


Figure 3. Radiated Spurious Emissions, (18 GHz – 26GHz) Plot

Frequency (MHz)	Average (dB μ V/m)	Avg Limit (dB μ V/m)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW	Correction (dB)
36869.925	38.745	82.26	-43.515	3.072	7	Horizontal	1000000	2.041
38553.5	38.528	82.26	-43.732	2.592	187	Vertical	1000000	3.47

Table 4. Radiated Spurious Emissions, (26GHz – 40 GHz) Test Results

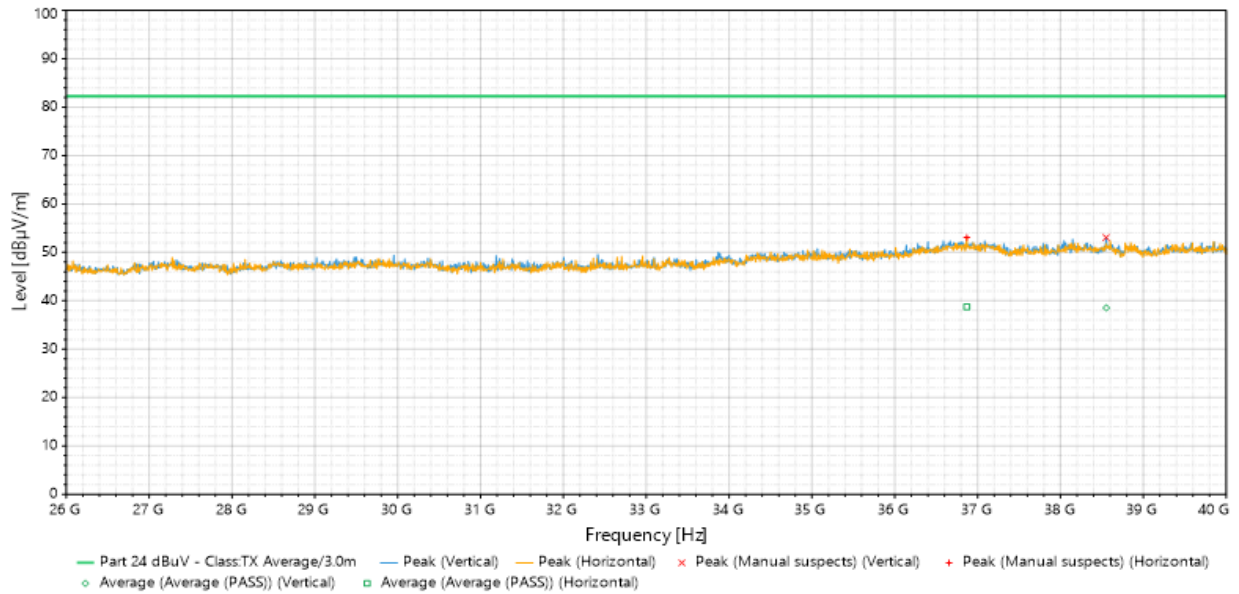


Figure 4. Radiated Spurious Emissions, (26GHz – 40 GHz) Plot

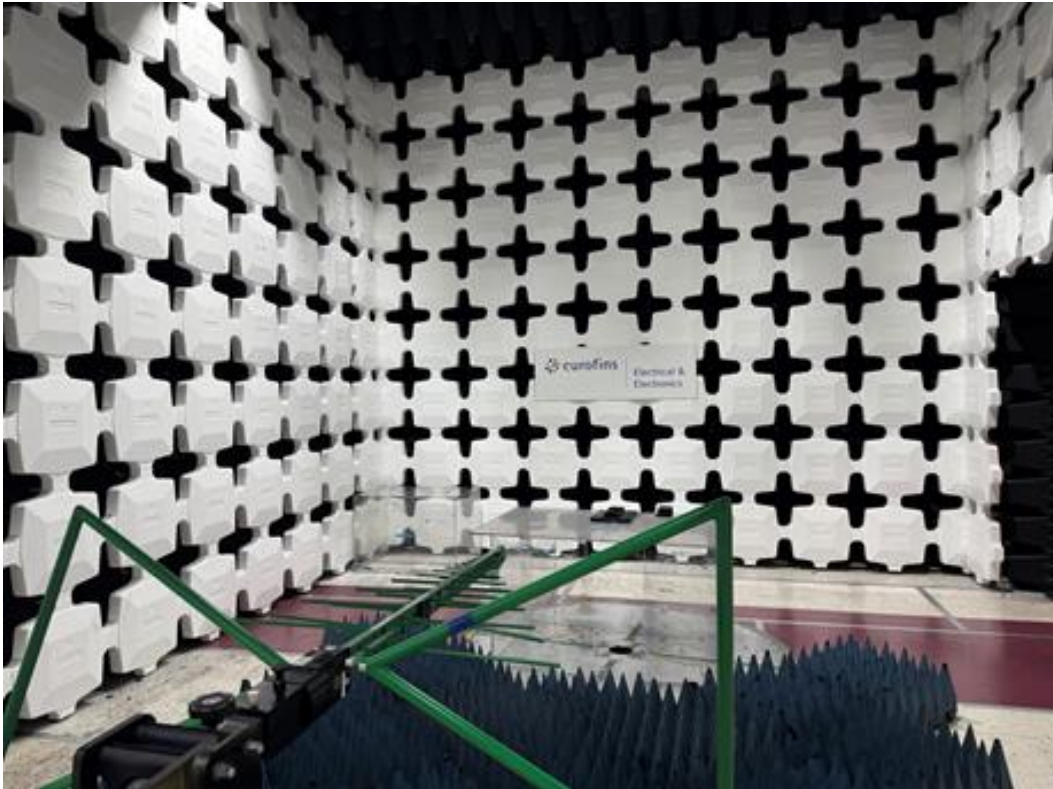


Figure 5. Radiated Spurious Emissions, (30 MHz – 1 GHz) Test Setup



Figure 6. Radiated Spurious Emissions, (1 GHz – 18 GHz) Test Setup

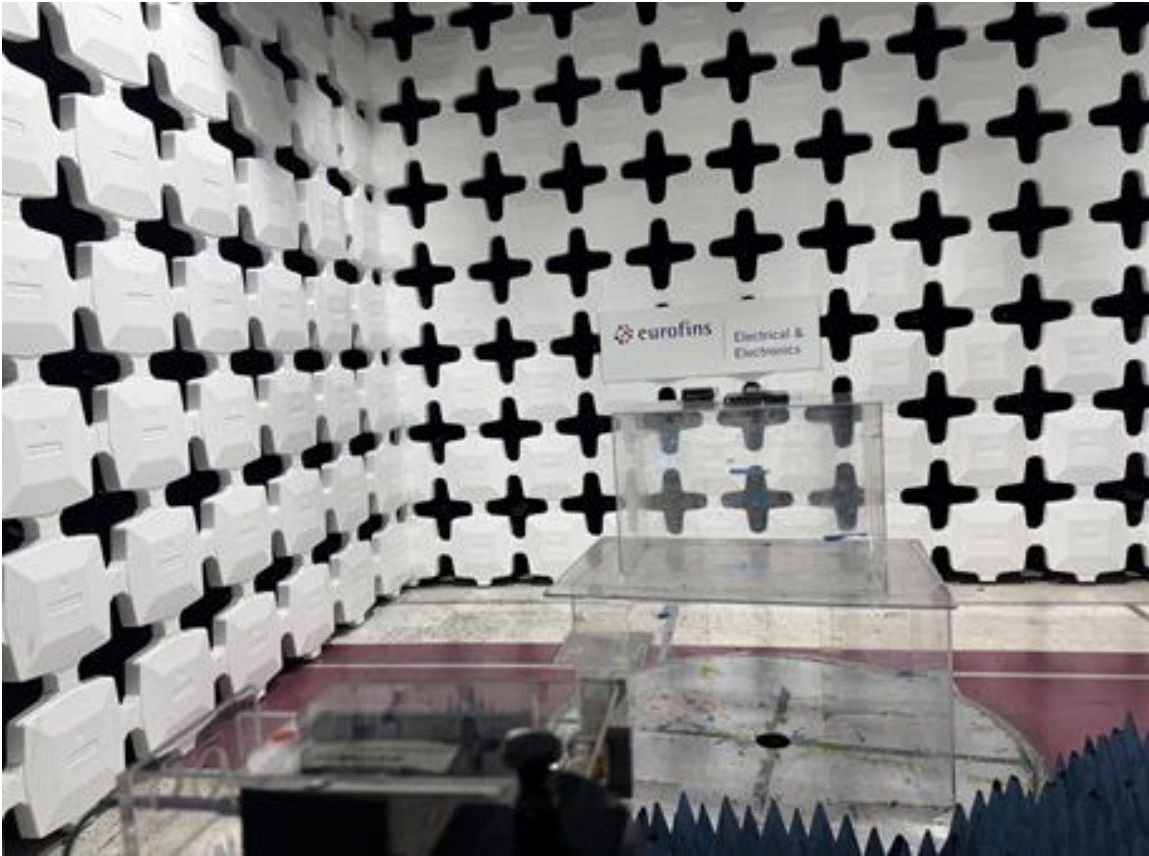


Figure 7. Radiated Spurious Emissions, (18 GHz – 40 GHz) Test Setup

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

Test Name: RE			Test Date(s): 12/02/2025		
Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2600	Bilog Antenna	Teseq	CBL6112D	06/10/2025	06/10/2027
1S2482	5 Meter Chamber (NSA)	Panashield	5 Meter Semi-Anechoic Chamber	NA	NA
1S4840	EMI Test Receiver 20 Hz-40 GHz	Rohde & Schwarz	ESW	08/15/2025	08/15/2026
1S4856	Multi Device Controller	ETS Lindren	EMC Center	Functional Verification	Functional Verification
1S2399	Multi Device Controller	Sunol Science	SC99V	Functional Verification	Functional Verification
1S2668	amplifier	Sonoma Instruments	310 N	03/18/2025	03/18/2027
1U0327	DRG Horn Antenna	A.H Systems Inc	SAS -574	11/28/2024	11/28/2026
1S3865	Preamplifier	MITEQ	TTA1840-33	Functional Verification	Functional Verification
1S4802	Preamp	NA	NA	Functional Verification	Functional Verification
1S4071	Digital Barometer	Control Co	6530	08/03/2020	08/03/2022
Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.					

Table 5. Radiated Spurious Emissions, Test Equipment

END OF REPORT