

Exposure Report

Test Report Number CMP-25121671-L-FCC-IC-RFX

Applicant CalAmp
Applicant Address 2177 Salk Ave, Suite 200, Carlsbad, CA 92008 USA
Product Name Fleet Management and Tracking Device
Model (s) LMU2630LNB
FCC ID APV-2630LNB
IC ID 5843C-2630LNB
Date of Receipt 12/16/2025
Date of Test 12/16/2025- 12/22/2025
Test Standards 47 CFR §1.1310, 47 CFR §2.1091
RSS-102 Issue 6 December 15, 2023
447498 D01 General RF Exposure Guidance v06
447498 D04 Interim General RF Exposure Guidance v01
Test Result PASS



Issued by:

Vista Compliance Laboratories
1261 Puerta Del Sol, San Clemente, CA 92673 USA
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REVISION HISTORY

Report Number	Version	Description	Issued Date
CMP-25121671-L-FCC-IC-RFX	01	Initial report	12/30/2025

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1 Test Summary

Test Item	Test Requirement	Test Method	Result
FCC RF Exposure Evaluation	47 CFR §1.1307(b), 47 CFR §1.1310 47 CFR §2.1091, 47 CFR §2.1093	447498 D01 General RF Exposure Guidance v06 447498 D04 Interim General RF Exposure Guidance v01	Pass
ISED RF Exposure Evaluation	RSS-102 Issue 6 December 15, 2023	RSS-102 Issue 6 December 15, 2023 447498 D01 General RF Exposure Guidance v06	Pass

2 General Information

2.1 Applicant

Applicant	CalAmp
Applicant address	2177 Salk Ave, Suite 200, Carlsbad, CA 92008 USA
Manufacturer	CalAmp
Manufacturer Address	2177 Salk Ave, Suite 200, Carlsbad, CA 92008 USA

2.2 Product information

Product Name	Fleet Management and Tracking Device
Product Description	Fleet Management and Tracking Device
Model Number	LMU2630LNB
Family Models	N/A
Serial Number	7000353972
Frequency Band	BLE: 2402-2480MHz LTE Band 2, 4, 5, 12, 13, 14, 17, 25, 66
Equipment Class	DTS, PCB
Antenna Information	Bluetooth ceramic antenna, peak Gain: 1.88dBi Cellular LPWA antenna: peak gain: 3.1dBi
Clock Frequencies	12MHz, 24MHz, 26MHz
Input Power	Vehicle Battery powered: 12-24VDC
Power Adapter Manufacturer/Model	N/A
Power Adapter SN	N/A
Hardware version	N/A
Additional Info	- EUT integrates FCC certified cellular 4G LTE Cat 1bis module, Model: GC02S1-NA2 from Sequans Communications (FCC ID: 2AAGMGC02SA, ISED ID: 12732A-GC02SA) , Bands supported : 2, 4, 5, 12, 13, 14, 17, 25, 66 - EUT has internal Lithium Ion rechargeable battery (3.7 VDC, P/N: GSP633248)

2.3 Test standard and method

Test standard	47 CFR §1.1310 47 CFR §2.1091 RSS-102 Issue 6 December 15, 2023
Test method	RSS-102 Issue 6 December 15, 2023 447498 D01 General RF Exposure Guidance v06 447498 D04 Interim General RF Exposure Guidance v01

3 Test Site Information

Lab performing tests	Vista Laboratories, Inc.
Lab Address	1261 Puerta Del Sol, San Clemente, CA 92673 USA
Phone Number	+1 (949) 393-1123
Website	www.vista-compliance.com

4 FCC RF Exposure Evaluation

4.1 FCC RF Exposure Evaluation (Mobile use)

4.1.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz; *Plane-wave equivalent power density

4.1.2 MPE Calculation Formula

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna in cm

4.2 Test Results

Radio	Frequency (MHz)	Max Conducted Output Power (dBm)	Antenna Gain (dBi)	Separation distance (cm)	Power Density (mW/ cm ²)	MPE Limit (mW/ cm ²)
BLE	2402-2480	4.164	1.88	20	0.0008	1
LTE Band2	1850-1910	22.75	3.1	20	0.07	1
LTE Band5	824-849	22.75	3.1	20	0.07	0.550
LTE Band12	699-716	22.93	3.1	20	0.08	0.466
LTE Band13	777-787	23.23	3.1	20	0.08	0.520
LTE Band14	788-798	23.07	3.1	20	0.08	0.520
LTE Band25	1850-1915	22.65	3.1	20	0.07	1
LTE Band66	1710-1780	22.94	3.1	20	0.08	1

The results above confirm that the device complies with the RF Exposure requirement for the FCC mobile use with a minimum separation distance of 20 cm as the worst case.

5 ISED RF Exposure Evaluation

5.1 ISED RF Exposure Evaluation (Mobile use)

5.1.1 Limits for Maximum Permissible Exposure (MPE)

Per RSS-102 issue 6, section 5.3. 2 Electric field strength levels, magnetic field strength levels and power density levels (10 MHz to 300 GHz)

The electric and magnetic field strength reference levels, power density reference levels, and associated reference period for devices employed by the general public (uncontrolled environment) and controlled-use devices (controlled environment) are specified in table 7 and table 8. Note that the power density limits specified in these tables apply to whole body exposure conditions.

Table 7: RF field strength and power density limits for devices used by the general public (uncontrolled environment)

Frequency Range (MHz)	Electric Field Strength (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
Limits For General Population / Uncontrolled Exposure				
10-20	27.46	0.0728	2	6
20-48	$58.07 / f^{0.25}$	$0.1540 / f^{0.25}$	$8.944 / f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000 / f^{1.2}$
150000-300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000 / f^{1.2}$
Note: f is frequency in MHz. *Based on nerve stimulation (NS). ** Based on specific absorption rate (SAR).				

5.1.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

Where

P_d = power density in W/m²

P_{out} = output power to antenna in W

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in m

5.2 Test Results

Radio	Frequency (MHz)	Max Conducted Output Power (dBm)	Antenna Gain (dBi)	Max E.I.R.P (dBm)	Max E.I.R.P (W)	Evaluation Exemption limit (W)
BLE	2402-2480	4.164	1.88	6.044	0.004	2.676
LTE Band2	1850-1910	22.75	3.1	25.85	0.385	2.240
LTE Band5	824-849	22.75	3.1	25.85	0.385	1.289
LTE Band12	699-716	22.93	3.1	26.03	0.401	1.152
LTE Band13	777-787	23.23	3.1	26.33	0.430	1.240
LTE Band14	788-798	23.07	3.1	26.17	0.414	1.250
LTE Band25	1850-1915	22.65	3.1	25.75	0.376	2.240
LTE Band66	1710-1780	22.94	3.1	26.04	0.402	2.120

The results above confirm that the device complies with the RF Exposure requirement for the ISED mobile use with a minimum separation distance of 0.2m as the worst case.

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