

EXODRAFT RF EXPOSURE REPORT

SCOPE OF WORK

RF EXPOSURE CALCULATIONS – DISPLAY UNIT (6220000)

REPORT NUMBER

106266476ATL-008

ISSUE DATE

11 November 2025

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RF EXPOSURE REPORT

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Project Number: G106266476

Report Issue Date: 11 November 2025

Report Revision Date: 28 January 2026

PMN: Xzense Display Unit

Model/HVIN: 6220000

FVIN: V4.12

FCC ID: 2BRZZ-6220000DURE

IC: 34524-6220000DURE

Standards: FCC Title 47 CFR Part 1.1310
RSS-102, Issue 6

Test Location

Intertek
1950 Evergreen Blvd., Suite 100
Duluth, GA 30096 USA
FCC Designation: US1046
CAB Designator: US0128

Client

Exodraft A/S
Industrivej 10, 5550 Langeskov, Denmark

Report prepared by



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Report reviewed by



Michael Carlson / Staff Engineer

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1 Introduction and Conclusion

RF Exposure calculations were performed on the product constructed as described in Section 4. Information provided by the client including maximum output power, antenna gain(s), and minimum separation distance(s) was used to determine if the product under evaluation was exempt from routine evaluation. Any change in these stated values may invalidate these results. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product under evaluation is exempt from routine evaluation for each of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) evaluated. Intertek does not make any claims of compliance for samples or variants which were not evaluated.

2 Evaluation Summary

Section	Test full name	Result
5	Routine Evaluation Exemption Criteria (FCC Title 47 CFR Part 1.1310)	Compliant
6	ISED Routine Evaluation Exemption Criteria (RSS-102 Issue 6)	Compliant

3 Client Information

This evaluation was performed at the request of:

Client: Exodraft A/S
Industrivej 10, 5550 Langeskov, Denmark

Contact: Christian Ahler

Email: kord@exodraft.dk

4 Description of Equipment Under Test and Variant Models

Manufacturer: Exodraft A/S
Industrivej 10, 5550 Langeskov, Denmark

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Xzense Display Unit	Exodraft a/s	6220000	Compliance Sys 2

Receive Date:	21 July 2025
Received Condition:	Good
Type:	Production

Description of Equipment Under Test (provided by client)

The EUT was a display and controller for use in Exodraft's Xzense wireless control system..

Radio/Receiver Characteristics (sub-GHz)	
Frequency Range / Number of Channels	903MHz, 1 Channel
Data Rate / Modulation Type(s)	GFSK
Channel Separation:	NA
Maximum Conducted Output Power:	11.28 dBm (13.43mW)
Equipment Type	Mobile – 20cm Separation Distance
Antenna Type and Gain	Board Mounted Antenna (Abracon, P/N: PRO-OB-471): +2.4dBi

Radio/Receiver Characteristics (BLE)	
Frequency Range / Number of Channels	2402 -2480MHz, 40 Channels
Data Rate / Modulation Type(s)	GFSK
Channel Separation:	2MHz
Maximum Conducted Output Power:	-1.1dBm (0.78mW)
Equipment Type	Mobile – 20cm Separation Distance
Antenna Type and Gain	Board Mounted Antenna (Abracon, P/N: PRO-OB-440): +5.2dBi

5 FCC Routine Evaluation Exemption Criteria

§ 1.1310: The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1 TO § 1.1310(e)(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)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	* (100)	≥6
3.0-30	1842/f	4.89/f	* (900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

5.1 Calculations

Channel (MHz)	Measured Conducted Power		Antenna Gain		Separation Distance (m)	Result (mW/cm ²)	Limit (mW/cm ²)	% of Limit
	(dBm)	(W)	(dBi)	Numeric				
903	11.28	0.013	2.4	1.738	0.2	0.0045	0.602	0.75%
2402	-1.1	0.001	5.2	3.311	0.2	0.0007	1.000	0.07%

Simultaneous Transmission (% of Limit): 0.82%

Note: for simultaneous transmissions, the sum of all contributors shall be <100%.

6 ISED Routine Evaluation Exemption Criteria

RSS-102 Issue 6 § 5.3.2: RF Exposure limits

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 (V _{RMS} /m)	Magnetic field (A _{RMS} /m)	Power density (W/m ²)	Reference period (minutes)
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	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000 / f^{1.2}$

6.1 Calculations

Channel (MHz)	Measured Conducted Power		Antenna Gain		Separation Distance (m)	Result (W/m ²)	Limit (W/m ²)	% of Limit
	(dBm)	(W)	(dBi)	Numeric				
903	11.28	0.013	2.4	1.738	0.2	0.045	2.742	1.64%
2402	-1.1	0.001	5.2	3.311	0.2	0.007	5.351	0.13%

Simultaneous Transmission (% of Limit): 1.77%

Note: for simultaneous transmissions, the sum of all contributors shall be <100%.

7 Revision History

Revision Level	Date	Prepared By	Reviewed By	Notes
0	11 November 2025	JOP	MC	Original Issue
1	28 January 2026	JOP	MC	• Added PMN and FVIN to title page. • Corrected antenna gain reference and updated tabular calculations accordingly.