

	EMC TEST REPORT			
FCC CFR Title 47 / Chapter I / Subchapter A / Part 15 / Subpart B				
ISED ICES-003 Issue 7				
Report Reference No	G0M-2403-2508-EF0115B-V02			
Testing Laboratory	Eurofins Product Service GmbH			
Address	Storkower Str. 38c 15526 Reichenwalde Germany			
Accreditation	A2LA - Registration number: 1983.01 (ISED) ISED wireless device testing laboratory: CN 3470A DAkkS - Registration number: D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, RegNo.: 96970			
Applicant	Jungheinrich AG			
Address	Friedrich-Ebert-Damm 129 22047 Hamburg Germany			
Test Specification Standard(s)	FCC CFR Title 47 / Chapter I / Subchapter A / Part 15 / Subpart B ISED ICES-Gen Issue 1; Amendment 1 (February 2021) ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017			
Non-Standard Test Method	None			
Equipment under Test (EUT):	•			
Product Description	UWB-Location-System is able to measure distances between the UWB components			
Model(s)	52445052, Truck Tag			
Additional Model(s)	None			
Brand Name(s)	zoneCONTROL			
Hardware Version(s)	10625 FS:04			
Software Version(s)	0.0.51			
FCC-ID	2AK6M-52445052			
IC	N/A			
Test Result	PASSED			



Possible test case verdicts:			
required by standard but not tested		N/T	
not required by standard		N/R	
required by standard but not appl. to tes	st object	N/A	
test object does meet the requirement		P(PASS)	
test object does not meet the requireme	nt	F(FAIL)	
Testing:			
Date of receipt of test item		2024-05-14	
Report:			
Compiled by	Mounir Marea	Mounir Marea	
Tested by (+ signature) (Responsible for Test)	Stephan Liebic	h	Alm
Approved by (+ signature) (Senior EMC Test Technician)	Matthias Hand	rik	Hel
Date of Issue	2024-11-28		
Total number of pages	38	38	
Canaral Bamarka			

General Remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Statement concerning the uncertainty of the measurement systems used for decisions on conformity (decision rule):

The Decision Rule is applied on the basis of CISPR 16-4-2 and/or IEC 61000-4-x (TR 61000-1-6) and their national publications. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019.

Compliance or non-compliance with a disturbance limit is determined in the following manner.

- If U_{lab} is less than or equal to U_{cispr}, then: compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
- If U_{lab} is greater than U_{cispr}, then: compliance is deemed to occur if no measured disturbance level, increased by (U_{lab} U_{cispr}), exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level, increased by (U_{lab} U_{cispr}), exceeds the disturbance limit.

Where appropriate for the test, for example for EMC pulsed immunity tests, the laboratory has demonstrated, by calibrating its equipment and facilities, that it complies with the above requirements and therefore no allowance of uncertainties has been given to the tolerances.

Additional Comments:	
None	



Additional variants have been declared by the manufacturer. The listed models were not tested, evaluated or assessed in no way.			
Additional Model 1	Product Type Description	UWB-Location-System is able to measure distances between the UWB components	
	Model Name	52445053, Truck Tag	
	Brand Name (optional)	zoneCONTROL	
	Hardware Version	10625 FS:04	
	Software Version	0.0.51	

ABBREVIATIONS AND ACRONYMS

Acronyms		
Acronym	Description	
EUT	Equipment Under Test	
FCC	Federal Communications Commission	
ISED	Innovation, Science and Economic Development Canada	
T _{NOM}	Nominal operating temperature	
V_{NOM}	Nominal supply voltage	



VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2024-11-11	Initial Release	-
02	2024-11-28	Replaced document: G0M-2403-2508-EF0115B-V01 Replaced by: G0M-2403-2508-EF0115B-V02 Changes: Page 2: • Update signatures	St. Liebich



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1 Equipment (Test Item) Under Test

Description	UWB-Location-System is able to measure distances between the UWB components				
Intended Use	Truck Tag is to be attached to a forklift or a vehicle for detecting potential danger points.				
Model	52445052, Truck Tag				
Additional Model(s)	None				
Brand Name(s)	zoneCONTROL				
Hardware Version(s)	10625 FS:04				
Software Version(s)	0.0.51				
Number of tested samples	1				
Camania Idamtification	EUT#		Sample-ID	Serial Number	
Sample Identification	EUT 1		48551	ID:17:B4:10:02:06:74	
EUT Dimensions [cm]	160 x 70 x 50 cm	n			
FCC-ID	2AK6M-5244505	52			
IC	N/A				
Class	Class A	Class A			
Equipment type	Table top				
Highest internal frequency [MHz]	6739.2				
Protective Earth	No				
Functional Earth	No				
	Туре	pe ZigBee Transceiver IEEE 802.15.4			
	Model	AT86RF215			
Radio Module 1	Manufacturer	A ⁻	Atmel		
	FCC-ID	N	None		
	IC	N	None		
	Туре	U	UWB Transceiver Decawave		
	Model	D	DW1000		
Radio Module 2	Manufacturer	Q	Qorvo		
	FCC-ID	N	one		
	IC	N	None		
Supply Voltage	V _{NOM}	24	4 V DC		
AC/DC-Adaptor	None				
Manufacturer	Siemens Aktiengesellschaft R&D House CHE DI PA DCP R&D 5 Rochlitzer Str. 19 09111 Chemnitz Germany				



1.1 Equipment Ports

Name	Туре	Attributes		Comment
DC Mains	DC	Count: Cable length [m]: Direction: Service only: Shielded:	1 3 In No No	-
Digital out	Ю	Count: Cable length [m]: Direction: Service only: Shielded:	2 3 IO No No	-
CAN	Ю	Count: Cable length [m]: Direction: Service only: Shielded:	1 3 IO No No	Board Bus
Description:		•		•
AC	AC mains powe	r input/output port		
DC	DC power input/	DC power input/output port		
BAT	DC power input port connected to external battery			
10	Input/Output port			
TP	Telecommunica	Telecommunication port		
NE	Non-electrical po	Non-electrical port		
GND	Functional Earth			



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE/MON	Laptop	HP	ProBook 6570b Intel CORE i5 v pro	Customer support equipment
AE	PoE Adapter	Microsemi	9001GR	Customer support equipment
AE	TagJHTester	Siemens AG	-	Customer support equipment
AE	Personal Tag	Siemens AG	51853935	Customer support equipment
AE	Truck Tag	Siemens AG	51685242	Customer support equipment
AE	Personal Tag Changing Station	Siemens AG	6GT2790-0DD20	Customer support equipment
AE	Personal Tag AC/DC adapter	MeanWell	GST60A05	Customer support equipment
CBL	LAN	unknown	CAT 6- shielded	Customer support Cable
CBL	USB -2.0	Amazon Basics	Type A to B	Customer support Cable
CBL	Connection Cord	Siemens AG	-	Customer support Cable
SW	Software	Siemens AG	TAG JH Tester v1.1.0	Customer support Software
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
SW	SW Software			
Comment:				



1.5 Operational Modes

Mode #	Description	
1	EUT transmits data at maximum 4 seconds from the Truck Tag, which is affixed to the vehicle. This communication occurs via two distinct wireless technologies: Zigbee at 2.4 GHz Ultra-Wideband (UWB) channel 2 at 3.9 GHz	
Comment: EUT can operate on UWB channel 2 at 3.9 GHz and channel 5 at 6.48 GHz, for the worst-case scenario, UWB channel 2 has been chosen.		

1.6 EUT Configuration

Comment:

Configuration #	Description		
1	EUT powered via 24 V DC from TagJHTester which is connected to Power Supply via connection cord and laptop via USB-2.0, sending information about the status of the communication range on the TAG JH Tester v1.1.0 software.		
	Prüfling Truck Tag Prüfling Truck Tag Verbindungskabel Truck Tag - Tag M Fester Stromversorgung, 12 oder 24V		



1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

Reading on Analyser ($dB\mu V$) + A.F. (dB/m) = Net field strength ($dB\mu V/m$)

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of $dB\mu V/m$). The FCC limits are given in units of $\mu V/m$. The following formula is used to convert the units of $\mu V/m$ to $dB\mu V/m$:

Limit (dB μ V/m) = 20*log (μ V/m)

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF = Net Reading : Net reading - FCC limit = Margin +21.5 dB μ V + 26 dB/m = 47.5 dB μ V/m : 47.5 dB μ V/m - 57.0 dB μ V/m = -9.5 dB



2 Result Summary

Title 47 CFR Part 15B, ISED ICES-003 Issue 7							
Reference	ference Requirement Reference Method Result Remarks						
Emission	Emission						
FCC 15.109 ICES-003, 3.2.2	Radiated emissions	ANSI C63.4:2014 +A1:2017	PASS				
FCC 15.107 ICES-003, 3.2.1 AC power line conducted emissions ANSI C63.4:2014 +A1:2017 1				1			
Comment: 1 EUT will not connected direct or indirect to an AC-Network.							

Possible Test Case Verdicts				
PASS	Test object does meet the requirements			
FAIL	Test object does not meet the requirements			
N/T	Required by standard but not tested			
N/R	Not required by standard for the test object			

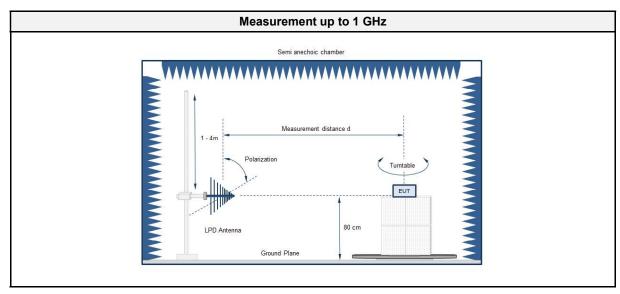


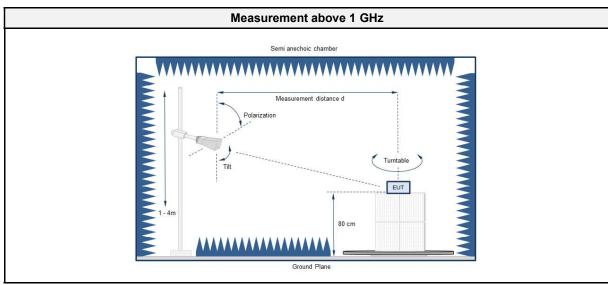
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

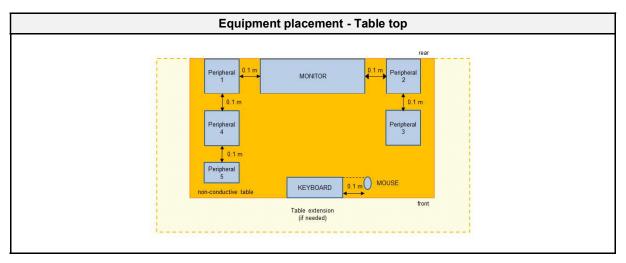
Test Information			
Reference	FCC 15.109, ICES-003, 3.2.2		
Reference method	ANSI C63.4 Section 8		
Equipment class	Class A		
Equipment type	Table top		
Highest internal frequency [MHz]	6739.2		
Measurement range	30 MHz to 40000 MHz		
Temperature [°C]	24 – 27		
Humidity [%]	38 – 40		
Operator	Mounir Marea		
Date	2024-06-05		

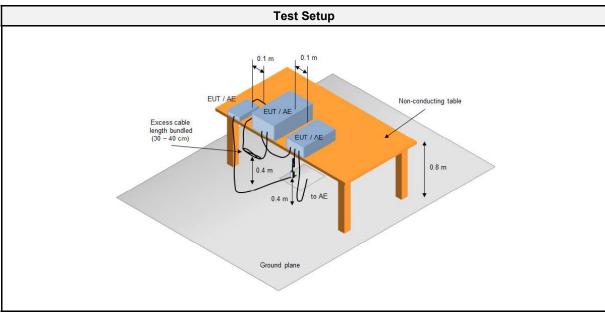
2.1.2 Setup Table top:













2.1.3 Equipment

Test Software AC1				
Description	Manufacturer	Name	Version	
EMC Software	DARE Instruments	Radimation	2023.2.6	

Test Equipment						
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due	
Anechoic chamber (NSA)	Frankonia	AC1	EF00062	2022-11	2025-11	
Anechoic chamber (SVSWR)	Frankonia	AC 1	EF01011	2022-11	2024-11	
Programmable AC Source	Chroma ATE Inc.	61604	EF01068	2023-08	2025-08	
Test Receiver	Rohde & Schwarz GmbH & Co. KG - Vertrieb Berlin	ESW44	EF01856	2024-04	2025-04	
Horn Antenna	Schwarzbeck	BBHA9120D	EF00018	2022-12	2025-12	
Climatic Sensor Embedded Data Systems, LLC.		2800100000254 17E	EF01054	2023-07	2024-07	

Test Software AC6						
Description Manufacturer Name Version						
EMC Software DARE Instruments Radimation 2020.1.8						

Test Equipment						
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due	
Anechoic chamber (NSA)	Frankonia	AC6	EF00910	2021-07	2024-07	
Anechoic chamber (SVSWR)	Frankonia	AC6	EF00899	2022-10	2025-10	
EMI Test Receiver	R&S	ESU26	EF00887	2024-01	2025-01	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9162	EF00978	2022-11	2025-11	
40GHz High Gain Antenna	Amplifier Research	AT4560	EF00302	2023-09	2025-09	
40GHz Standard Standard Gain Horn Antenna with Amplifier	Flann Microwave Ltd	22240-25 Amp. CBL26402075	EF00301	2023-01	2026-01	
Climatic Sensor Embedded Data Systems, LLC.		0200100000253 77E	EF01336	2024-05	2025-05	



2.1.4 Procedure

Exploratory measurement Table top

- 1. The EUT was placed on a non-conductive table at a height of 0.8m.
- 2. The EUT and support equipment, if needed, were set up to simulate typical usage.
- 3. Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
- 4. The antenna was placed at a distance of 3 or 10 m.
- 5. The received signal was monitored at the measurement receiver.
- 6. This procedure has to be performed in both antenna polarizations, horizontal and vertical.
- 7. The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 2.1.2

Final measurement 3m/10m Table top

- 1. The EUT was placed on a 0.8 m non-conductive table at a 3 or 10 m distance from the receive antenna. The antenna output was connected to the measurement receiver.
- 2. A broadband hybrid antenna was used for the frequency range 30 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast. If required, in the range 1- 18 GHz a Double Ridged Broadband Horn antenna, in the range 18 40 GHz a High Gain / Standard Gain Horn was used. The antenna was placed on an adjustable height antenna mast.
- 3. The EUT and cable arrangement were based on the exploratory measurement results.
- 4. Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
- 5. The test data of the worst-case conditions were recorded and shown on the next pages.

2.1.5 Limits

Class A @ 10 m					
Frequency [MHz]	Detector	Limit [dBµV/m]			
30 - 88	Quasi-peak	39			
88 - 216	Quasi-peak	43.5			
216 - 960	Quasi-peak	46.5			
960 - 1000	Quasi-peak	49.5			
> 1000	Peak Average	69.5 49.5			



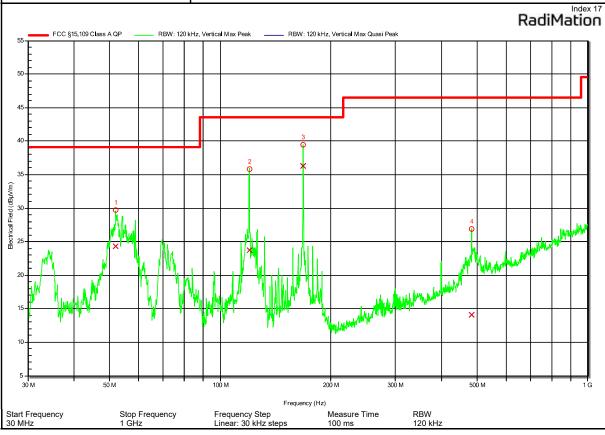
2.1.6 Results

Test Results				
Operational mode	EUT Configuration	Verdict	Remark	
1	1	PASS	-	
Note:-				



2.1.8 Records

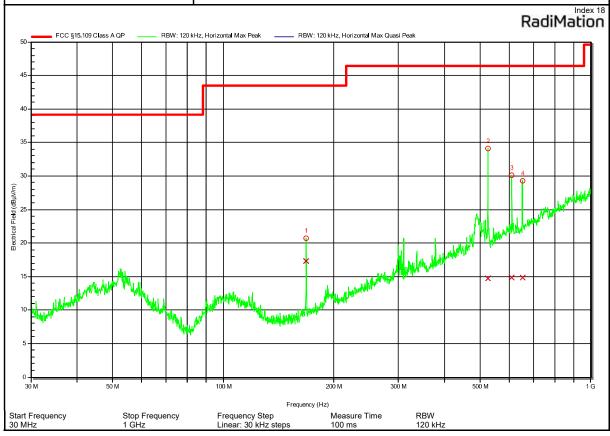
Radiated emissions according to FCC 15B				
Project Number:	G0M-2403-2508			
Applicant:	Siemens AG			
Model Description:	UWB-Location-System can measure distances between the UWB components			
Model:	52445052,Truck Tag			
Test Sample ID:	48551			
Test Site:	Eurofins Product Service GmbH			
Operator:	Mr. Marea			
Test Date & Time:	2024-06-05			
Operating Conditions:	ambient temperature: 23 °Celsius power input: 24 V DC			
Antenna:	Schwarzbeck VULB 9162, Vertical			
Measurement Distance:	10 m			
Operational Mode: DUT Configuration:	1 1			
Applied to Port:	-			
Note 1:	- Index 17			



Peak Number	Frequency (MHz)	Quasi-Peak (dBµV/m)	Quasi-Peak Limit (dBµV/m)	Quasi-Peak Difference (dB)	Quasi-Peak Status	Angle (degrees)	Height (m)
1	51.96	24.3	39.1	-14.8	Pass	160	1
2	120.06	23.8	43.5	-19.8	Pass	160	1
3	168	36.3	43.5	-7.2	Pass	160	1
4	482.91	14.1	46.4	-32.3	Pass	160	1



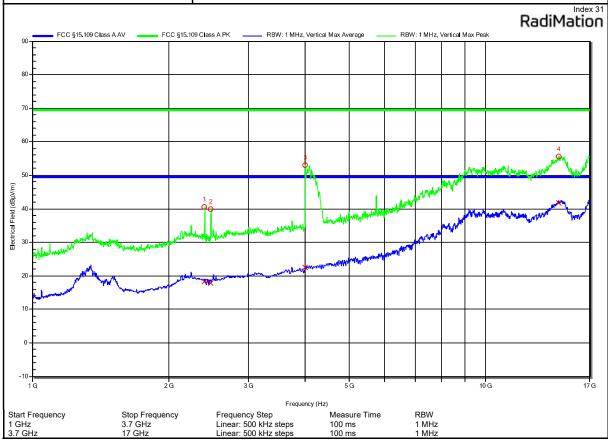
Radiated emissions according to FCC 15B				
Project Number:	G0M-2403-2508			
Applicant:	Siemens AG			
Model Description:	UWB-Location-System can measure distances between the UWB components			
Model:	52445052,Truck Tag			
Test Sample ID:	48551			
Test Site:	Eurofins Product Service GmbH			
Operator:	Mr. Marea			
Test Date & Time:	2024-06-05			
Operating Conditions:	ambient temperature: 23 °Celsius power input: 24 V DC			
Antenna:	Schwarzbeck VULB 9162, Horizontal			
Measurement Distance:	10 m			
Operational Mode: DUT Configuration:	1 1			
Applied to Port:	-			
Note 1:	-			



Peak Number	Frequency (MHz)	Quasi-Peak (dBµV/m)	Quasi-Peak Limit (dBµV/m)	Quasi-Peak Difference (dB)	Quasi-Peak Status	Angle (degrees)	Height (m)
1	168	17.3	43.5	-26.2	Pass	180	1.7
2	525.03	14.8	46.4	-31.7	Pass	180	1.7
3	609.03	14.9	46.4	-31.6	Pass	180	1.7
4	651.12	14.9	46.4	-31.6	Pass	180	1.7



	Radiated emissions according to FCC part 15B
Project Number:	G0M-2403-2508
Applicant:	Siemens AG
Model Description:	UWB-Location-System can measure distances between the UWB components
Model:	52445052,Truck Tag
Test Sample ID:	48551
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Drabo
Test Date & Time:	2024-06-19
Operating Conditions:	ambient temperature: 24 °Celsius power input: 24 V DC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement Distance:	3 m converted to 10 m
Operational Mode: DUT Configuration:	1 1
Applied to Port:	-
Note 1:	-



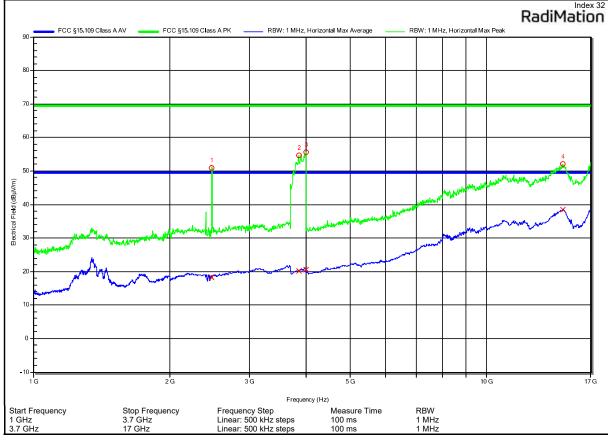


Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBμV/m)	Peak Difference (dB)	Peak Status	Angle (degrees)	Height (m)
1	2402	40.5	69.54	-29.04	Pass	0	1
2	2479.5	39.9	69.54	-29.64	Pass	0	1
3	4003	53.04	69.54	-16.5	Pass	0	1
4	14543.5	55.53	69.54	-14.01	Pass	0	1

Peak Number	Frequency (MHz)	Average (dBµV/m)	Average Limit (dBµV/m)	Average Difference (dB)	Average Status	Angle (degrees)	Height (m)
1	2402	18.38	49.54	-31.16	Pass	0	1
2	2479.5	17.93	49.54	-31.61	Pass	0	1
3	4003	22.46	49.54	-27.08	Pass	0	1
4	14543.5	41.86	49.54	-7.68	Pass	0	1



	Radiated emissions according to FCC part 15B
Project Number:	G0M-2403-2508
Applicant:	Siemens AG
Model Description:	UWB-Location-System can measure distances between the UWB components
Model:	52445052,Truck Tag
Test Sample ID:	48551
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Drabo
Test Date & Time:	2024-06-19
Operating Conditions:	ambient temperature: 24 °Celsius power input: 24 V DC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement Distance:	3 m converted to 10 m
Operational Mode: DUT Configuration:	1 1
Applied to Port:	-
Note 1:	-
i -	Index 32

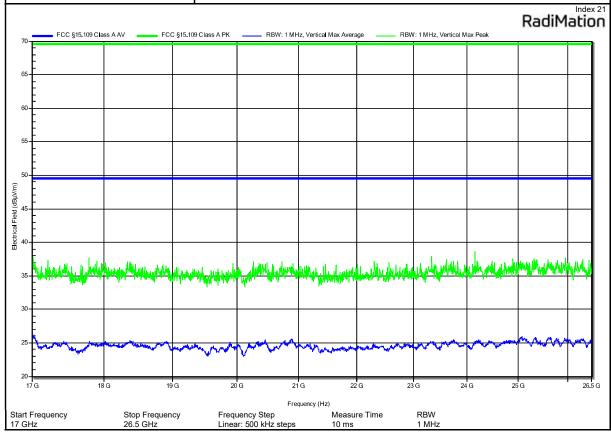




Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBμV/m)	Peak Difference (dB)	Peak Status	Angle (degrees)	Height (m)
1	2479.547	50.87	69.54	-18.67	Pass	0	1
2	3853.5	54.67	69.54	-14.87	Pass	0	1
3	3994.5	55.5	69.54	-14.04	Pass	0	1
4	14763	52.05	69.54	-17.49	Pass	0	1

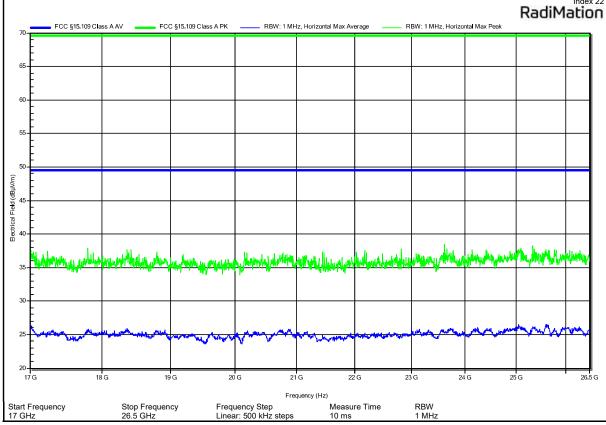
Peak Number	Frequency (MHz)	Average (dBµV/m)	Average Limit (dBµV/m)	Average Difference (dB)	Average Status	Angle (degrees)	Height (m)
1	2479.547	18.18	49.54	-31.36	Pass	0	1
2	3853.5	20.25	49.54	-29.29	Pass	0	1
3	3994.5	20.68	49.54	-28.86	Pass	0	1
4	14763	38.5	49.54	-11.04	Pass	0	1

	Radiated emissions according to FCC 15B
Project Number:	G0M-2403-2508
Applicant:	Siemens AG
Model Description:	UWB-Location-System can measure distances between the UWB components
Model:	52445052,Truck Tag
Test Sample ID:	48551
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Marea
Test Date & Time:	2024-06-05
Operating Conditions:	ambient temperature: 23 °Celsius power input: 24 V DC
Antenna:	AT4560, Vertical
Measurement Distance:	3 m converted to 10 m
Operational Mode: DUT Configuration:	1 1
Applied to Port:	-
Note 1:	-





	Radiated emissions according to FCC 15B
Project Number:	G0M-2403-2508
Applicant:	Siemens AG
Model Description:	UWB-Location-System can measure distances between the UWB components
Model:	52445052,Truck Tag
Test Sample ID:	48551
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Marea
Test Date & Time:	2024-06-05
Operating Conditions:	ambient temperature: 23 °Celsius power input: 24 V DC /48 V DC
Antenna:	AT4560, Horizontal
Measurement Distance:	3 m converted to 10 m
Operational Mode: DUT Configuration:	1 1
Applied to Port:	-
Note 1:	-
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	Radiated emissions according to FCC 15B					
Project Number:	G0M-2403-2508					
Applicant:	Siemens AG					
Model Description:	UWB-Location-System can measure distances between the UWB components					
Model:	52445052,Truck Tag					
Test Sample ID: 48551						
Test Site:	Eurofins Product Service GmbH					
Operator:	Mr. Marea					
Test Date & Time:	2024-06-06					
Operating Conditions:	ambient temperature: 23 °Celsius power input: 24 V DC					
Antenna:	22240-25, Vertical					
Measurement Distance:	3 m converted to 10 m					
Operational Mode: DUT Configuration:	1 1					
Applied to Port:	-					
Note 1:	Height 1 m, angle 0°					
80	30G 32G 34G 36G 38G 40G					
Start Frequency Stop Frequenc 26.5 GHz 40 GHz	Frequency (Hz)					

	Radiated emissions according to FCC 15B		
Project Number:	G0M-2403-2508		
Applicant:	Siemens AG		
Model Description:	UWB-Location-System can measure distances between the UWB components		
Model:	52445052,Truck Tag		
Test Sample ID: 48551			
Test Site:	Eurofins Product Service GmbH		
Operator:	Mr. Marea		
Test Date & Time:	2024-06-06		
Operating Conditions:	ambient temperature: 23 °Celsius power input: 24 V DC		
Antenna:	22240-25, Horizontal		
Measurement Distance:	3 m converted to 10 m		
Operational Mode: DUT Configuration:	1 1		
Applied to Port:	-		
Note 1:	Height 1 m, angle 0°		
((m/N(g)) 0			
26.5 G 28 G Start Frequency Stop Frequ	30 G 32 G 34 G 36 G 38 G 40 G Frequency (Hz) iency Frequency Step Measure Time RBW		
26.5 GHz 40 GHz	Linear: 500 kHz steps 10 ms 1 MHz		



3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

Test Name	Measurement Uncertainty
Radiated Emission	>1GHz to 17GHz @3m, 5.95dB

Test Name	Measurement Uncertainty
Radiated Emission	30 MHz to 1 GHz @ 10 m, 6.25 dB 17 GHz to 40GHz @ 3 m, max. 5.39 dB