

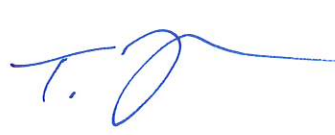


FCC TEST REPORT Co-Location	
Report Reference No	G0M-2108-9942-TFCCOLOC-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	 <p> DAKKS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A DAKKS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970 </p>
Applicant	Bridgestone Mobility Solutions B.V.
Address	Beethovenstraat 503 1083 HK Amsterdam Netherlands
Test Specification	47 CFR Part 22H, 47 CFR Part 24E RSS-132, Issue 3: 2013-01, RSS-133, Issue 6:2013-01 47 CFR Part 15C RSS-247, Issue 2, 2017-02
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Telematic Device with GSM+LTE+GNSS+OBD connector
Model(s)	L0245
Additional Model(s)	None
Brand Name(s)	webfleet Link 245
Hardware Version(s)	15/2021
Software Version(s)	3.11
FCC ID	2AGPAL0245
IC	20911-L0245
Test Result	PASSED

Possible test case verdicts:		
Required by standard but not tested	N/T	
Not required by standard	N/R	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2022-02-15	
Report:		
Compiled by	Burkhard Pudell	
Tested by (+ signature) (Responsible for Test)	Burkhard Pudell	
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	
Date of Issue	2022-03-22	
Total number of pages	41	
General Remarks:		
<p>The test results presented in this report relate only to the object tested.</p> <p>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.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p>		
Additional Comments:		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2022-03-22	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V _{NOM}	Nominal supply voltage

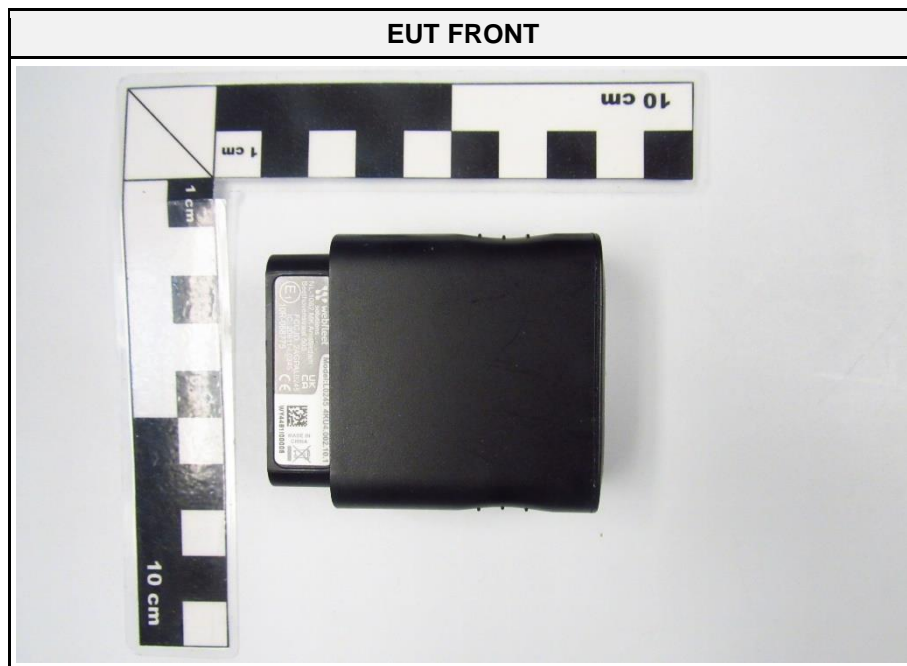
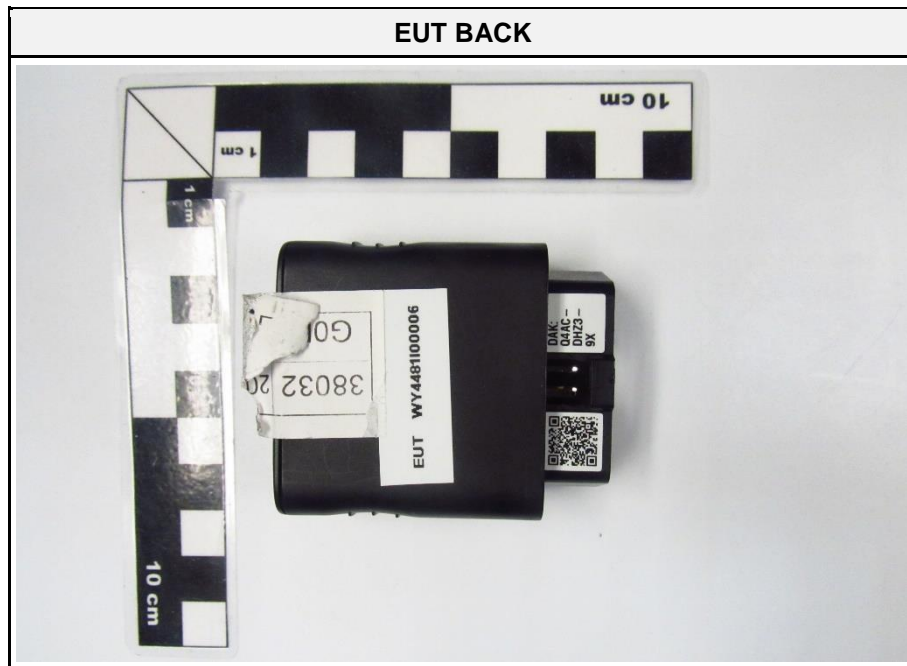
REPORT INDEX

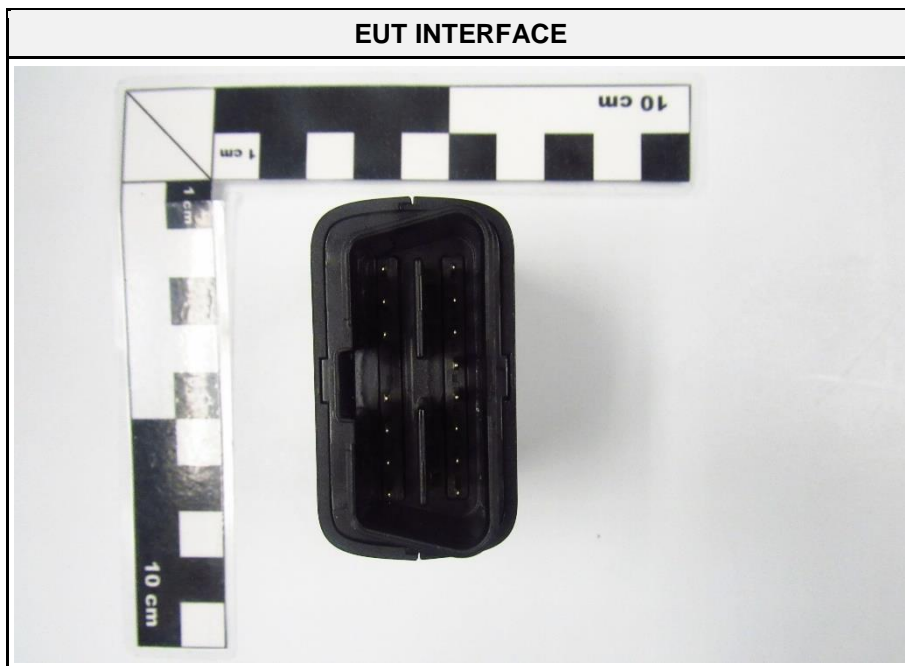
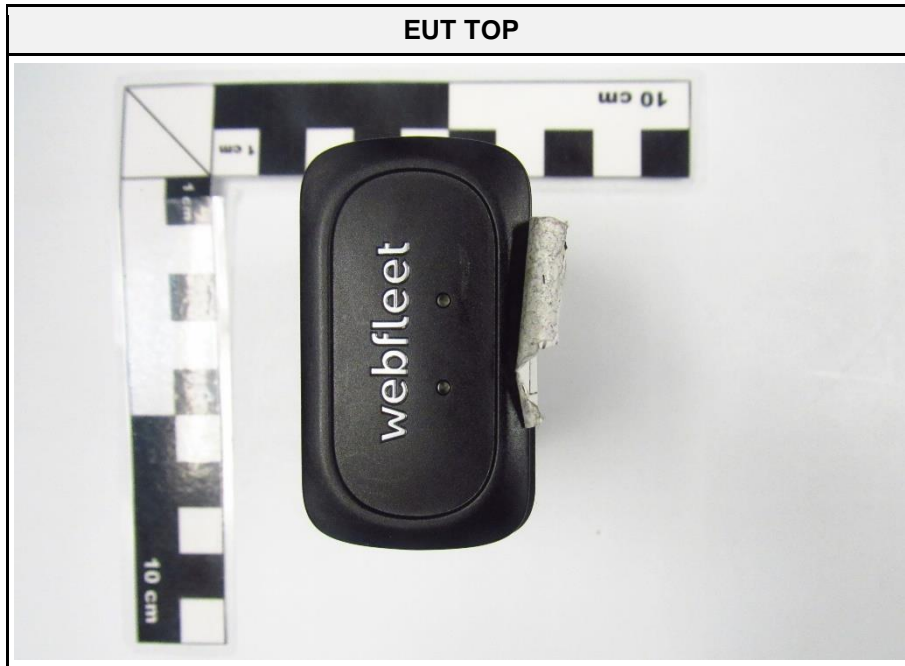
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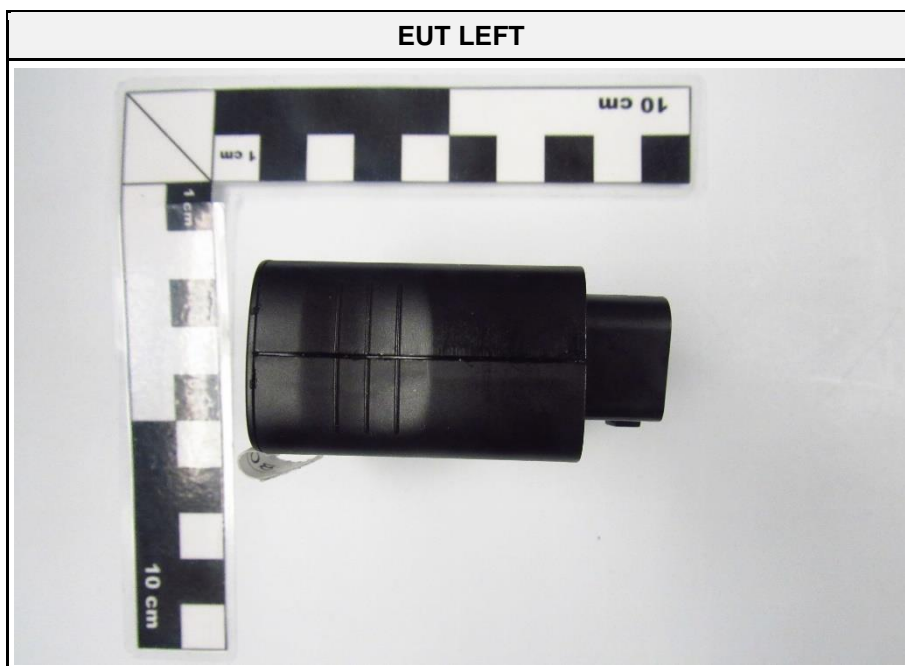
1 Equipment (Test Item) Under Test

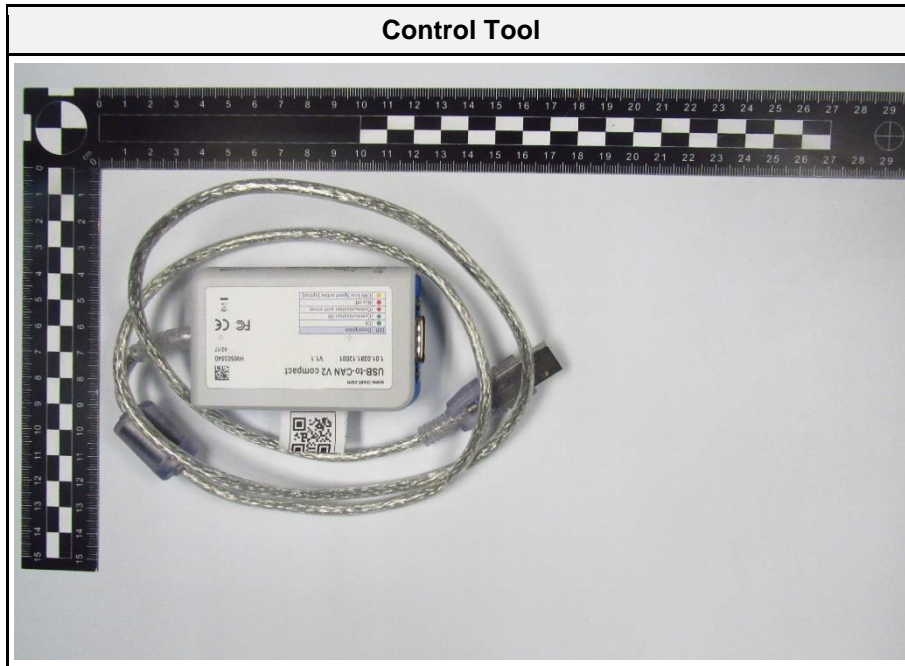
Description	Telematic Device with GSM+LTE+GNSS+OBD connector	
Model	L0245	
Additional Model(s)	None	
Brand Name(s)	webfleet Link 245	
Serial Number(s)	WY4481I00006 (SID: 38032)	
Hardware Version(s)	15/2021	
Software Version(s)	3.11	
PMN	LINK 245	
HVIN	L0245	
FVIN	3.11	
HMN	N/A	
FCC ID	2AGPAL0245	
IC	-/-	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	LTE FDD2 : UL = 1850 - 1910 MHz, DL = 1930 - 1990 MHz LTE FDD4 : UL = 1710 - 1755 MHz, DL = 2110 - 2155 MHz LTE FDD12 : UL = 699 - 716 MHz, DL = 729 - 746 MHz LTE FDD13 : UL = 777 - 787 MHz, DL = 746 - 756 MHz GSM 850 : UL = 824 - 849 MHz DL = 869 - 894 MHz GSM 1900 : UL = 1850 - 1910 MHz DL = 1930 - 1990 MHz Bluetooth : 2400.0 MHz - 2483.5 MHz	
Radio technologies	GSM 850 + Bluetooth Classic Basic Rate	
Operating modes	GPRS 850, BT-BR DH5	
Modulation	GMSK,GFSK	
Multislot class	10	
Number of modules	1	
Radio Module (GSM/LTE)	Type	2G/4G module
	Model	EXS82
	Manufacturer	Gemalto (Thales)
	HW Version	A110
	SW Version	01.001
	FCC-ID	QIPEXS82-W
	IC	7830A-EXS82W
Antenna (GSM/LTE)	Type	integrated
	Model	PCS.47.A
	Manufacturer	Taoglas
	Gain	-3.2...-4.2 dBi
Antenna (Bluetooth BR)	Type	Integrated antenna
	Model	ALA621C4
	Manufacturer	Amotech
	Gain	0 dBi
Supply Voltage	V _{NOM}	12 VDC
AC/DC-Adaptor	None	
Manufacturer	Bridgestone Mobility Solutions B.V. Beethovenstraat 503 1083 HK Amsterdam Netherlands	

1.1 Photos – Equipment External

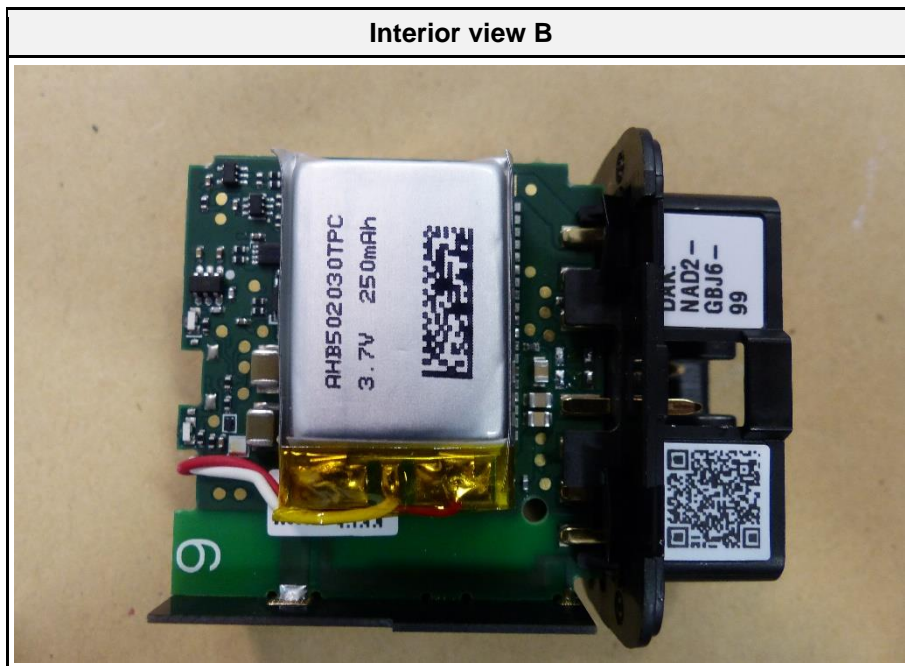
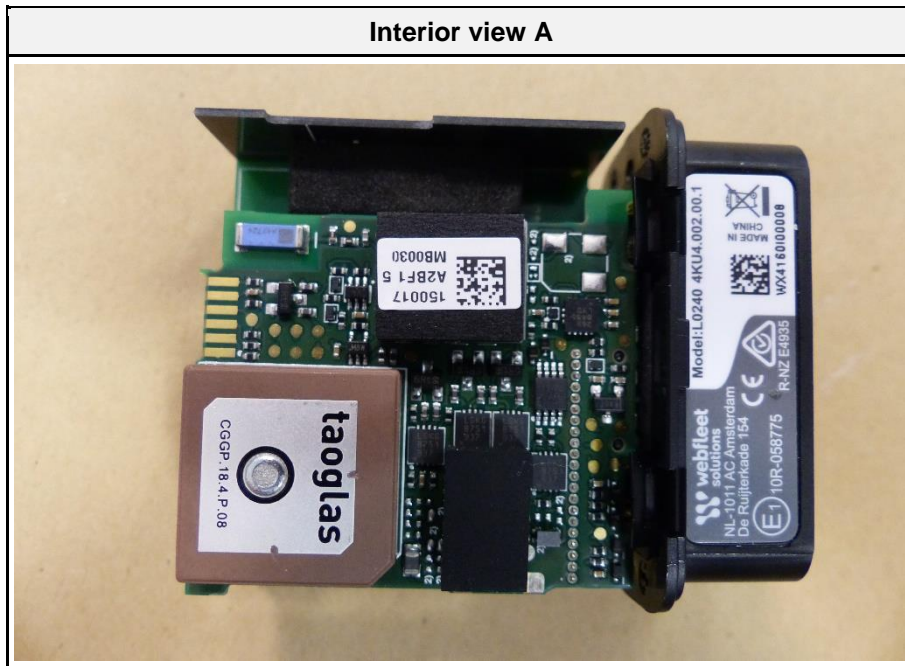




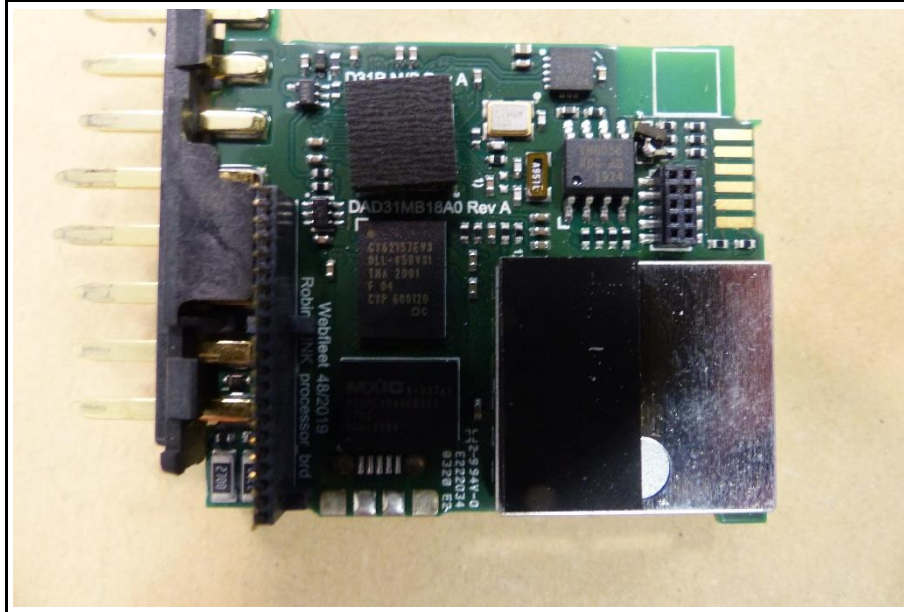




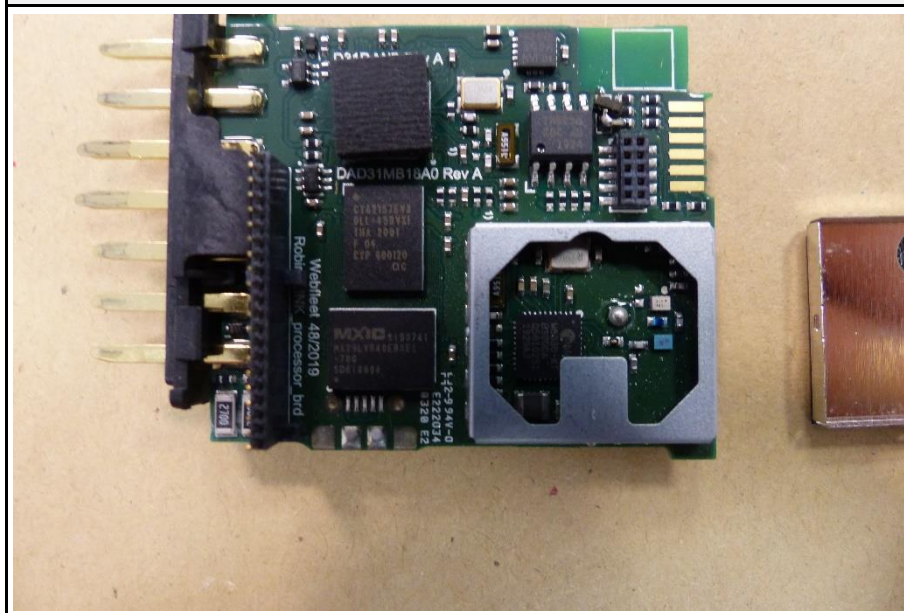
1.2 Photos – Equipment Internal

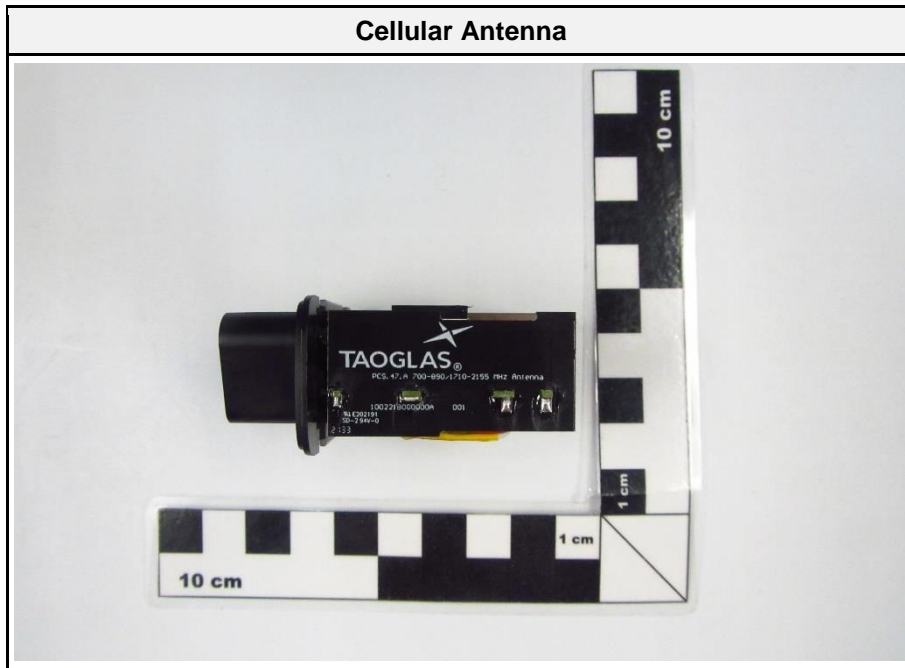


Interior view C

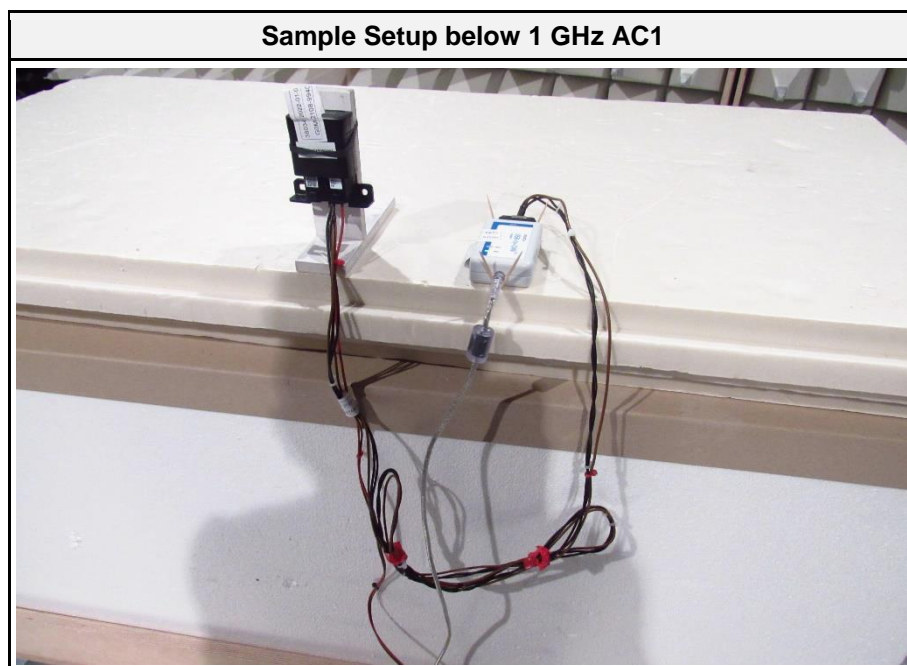
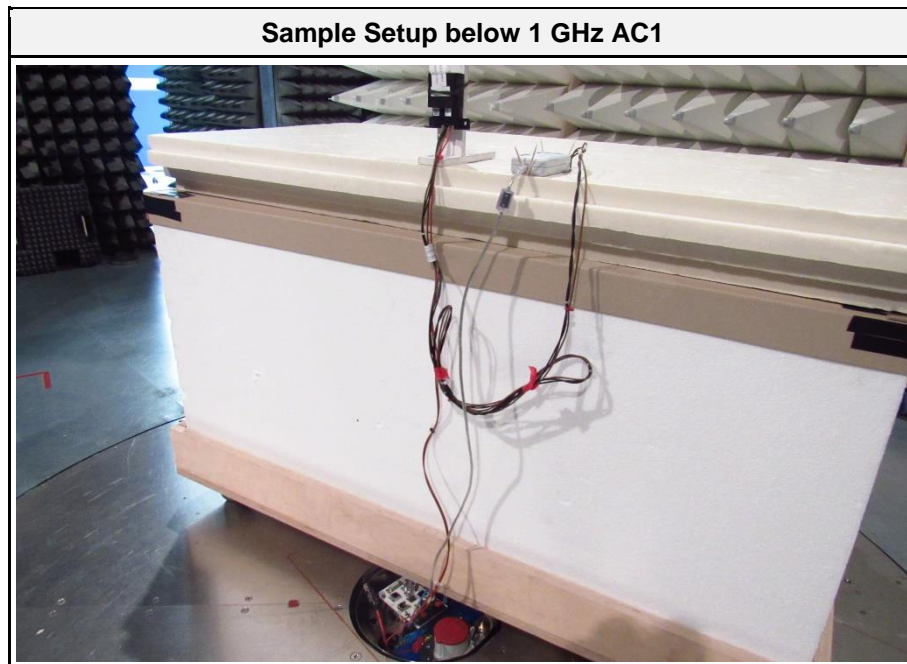


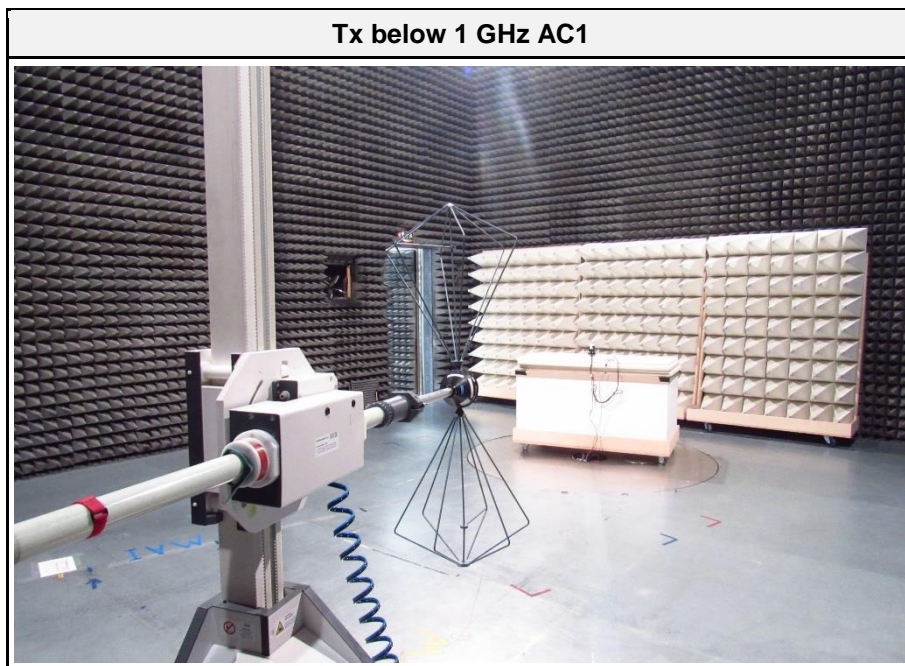
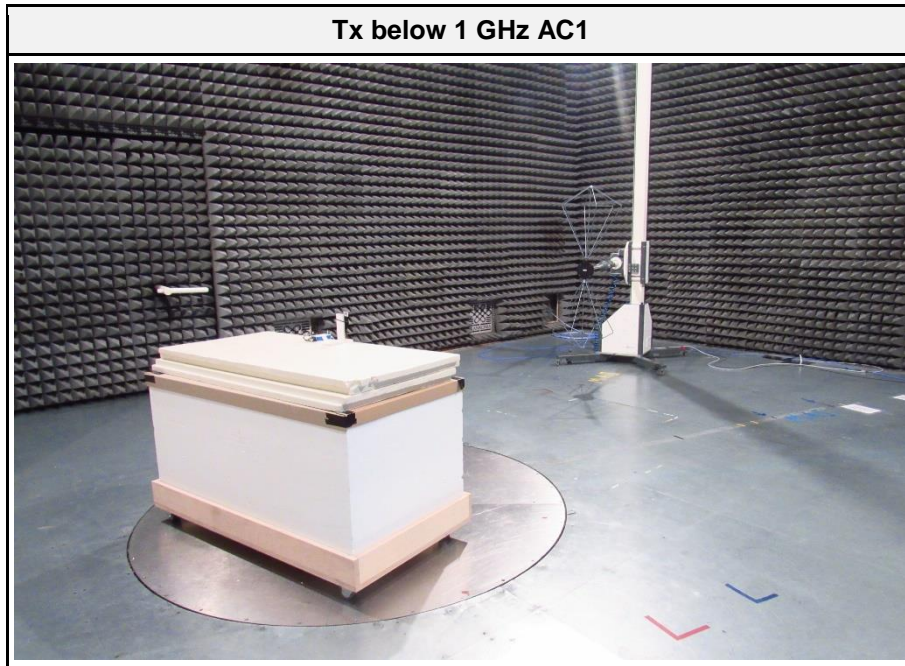
Interior view D

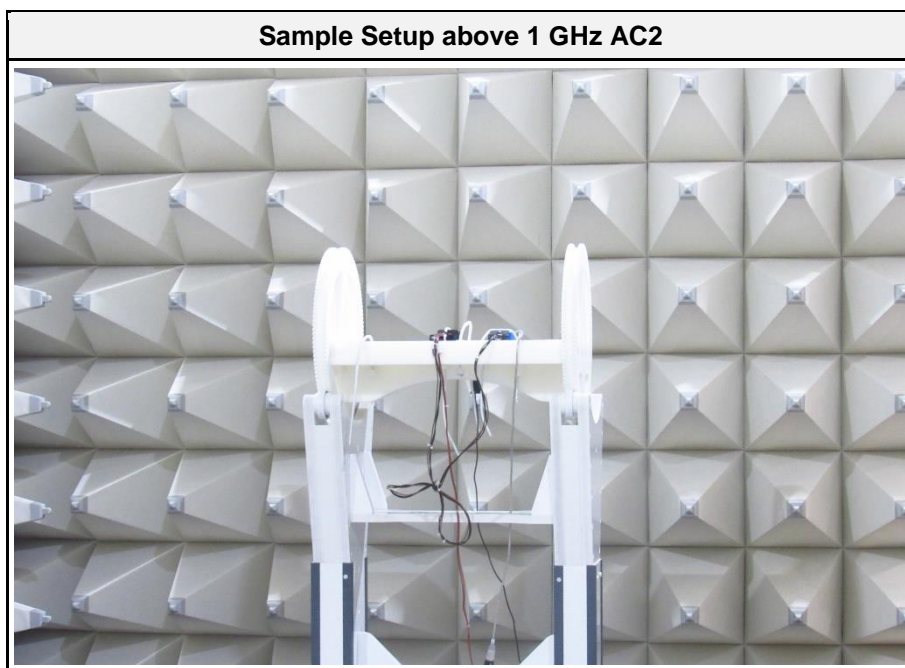
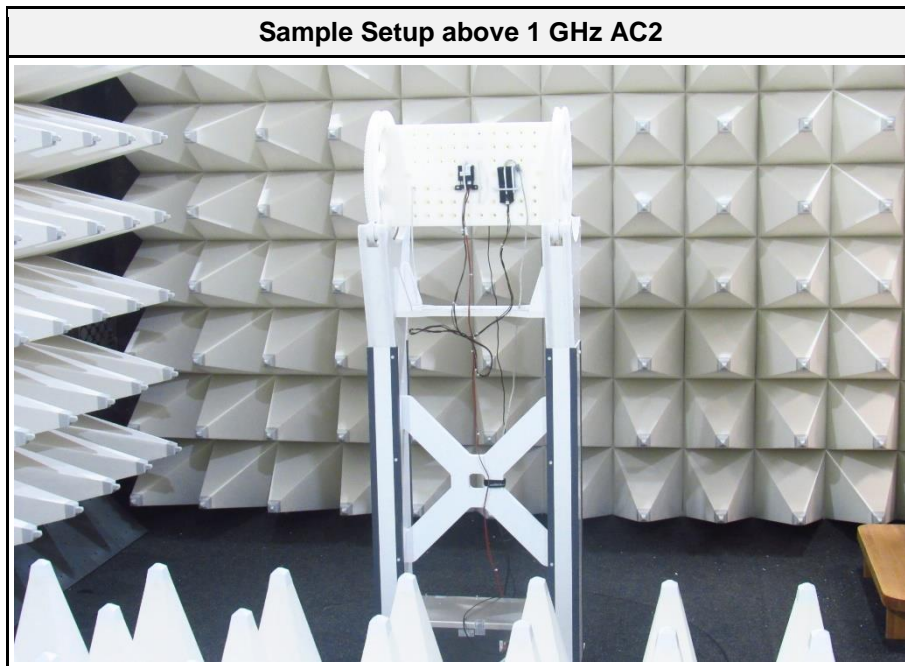




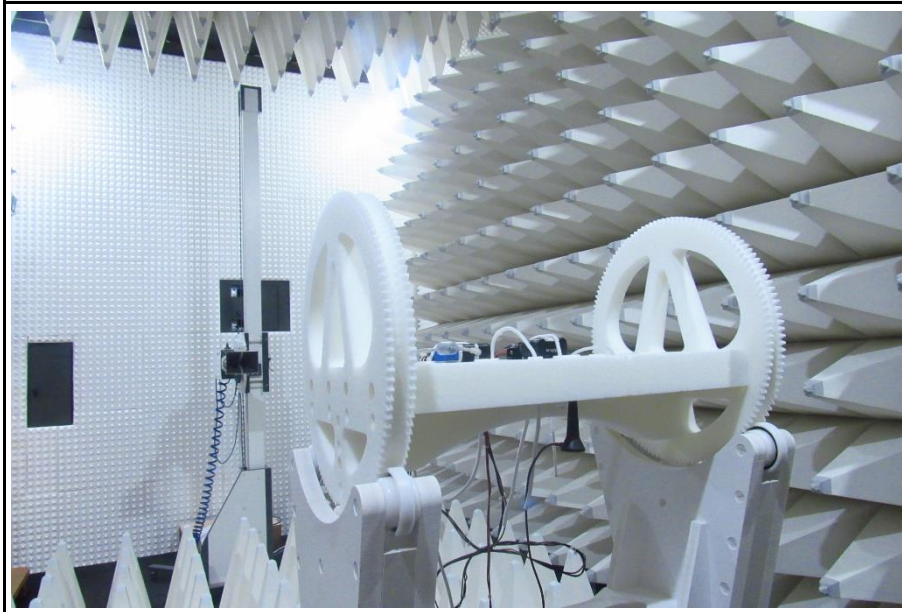
1.3 Photos – Test Setup



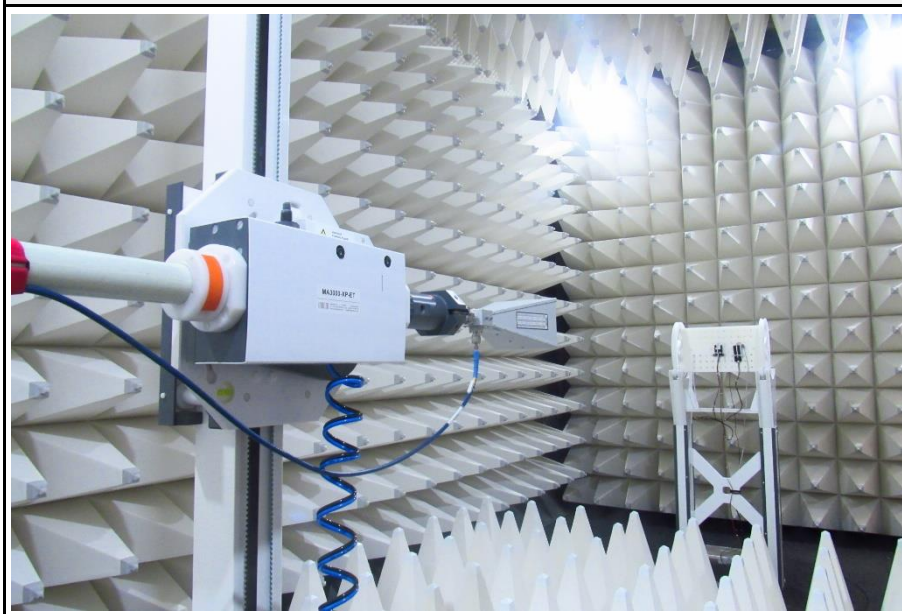




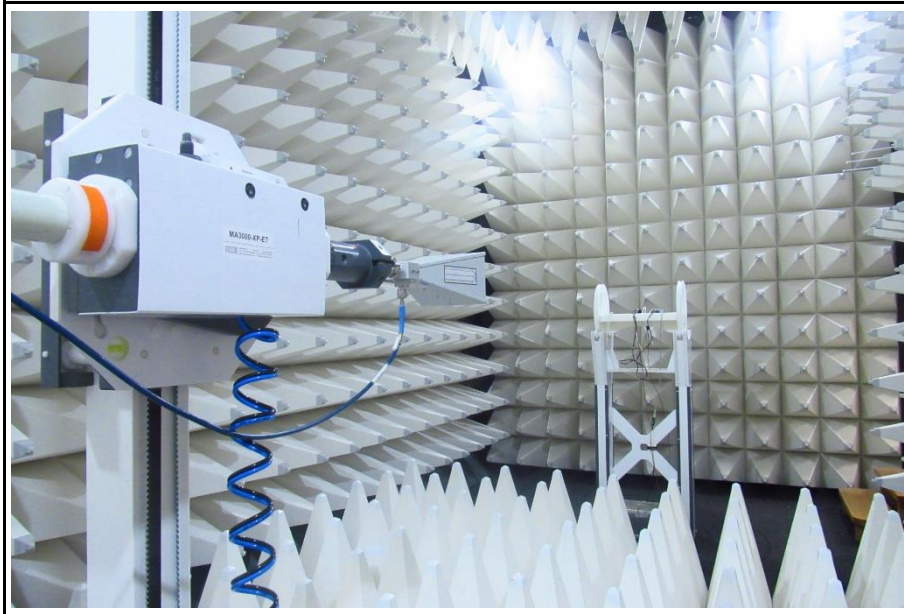
Sample Setup above 1 GHz AC2



Tx above 1 GHz AC2



Tx above 1 GHz AC2



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
SIM	Communication Tester	R&S	CMW500	GSM-Tester
SFT	Remote Control	Webfleet Solutions Development Germany GmbH	DeviceCommunicationTool v0.9.0.99	Control unit
AE	USB to CAN bridge	IXXAT	USB to CAN V2	Control unit
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.5 Test Modes

Mode	Description
GSM850 / GMSK	Channel = 189 (836.4 MHz) Mode = Transmit Power = Maximum Modulation = GMSK Number of time slots = 1 Duty cycle = 12.5 %
BT-Single	Channel = 78 (2480 MHz) Mode = Transmit Modulation = GFSK Packet type = DH5 Duty cycle = 78%
Comment:	

1.6 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx	189	836.4
F2	Tx	78	2480
Comment: Above channels are selected because they caused maximum output power in modular approval tests.			

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 analyzer in dBµV. Any external preamplifiers used are taken into account through internal analyzer 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 analyzer. 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:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

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

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

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 dBµV + 26 dB/m		= 47.5 dBµV/m		47.5 dBµV/m - 57.0 dBµV/m		= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15C, 22H, 47 CFR Part 15.247, ISED RSS-132, 247				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
FCC § 22.917(a) FCC § 15.247 ISED RSS-132 § 4.5 Issue 3 ISED RSS-247	Transmitter radiated spurious emissions	ANSI C63.10-2013 ANSI/TIA-603-D-2016 KDB 971168 ANSI C63.26-2015 5.5	PASS	
47 CFR 15.207 ISED RSS-247 § 3.1 Issue 2	AC power line conducted emissions	ANSI C63.4-2014	PASS	
Comment: Above standards have been selected for tests because they allow the highest spurious emission limits when considering all built-in radio technologies.				

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

3 Test Conditions and Results

3.1 Test Conditions and Results – Transmitter radiated emissions

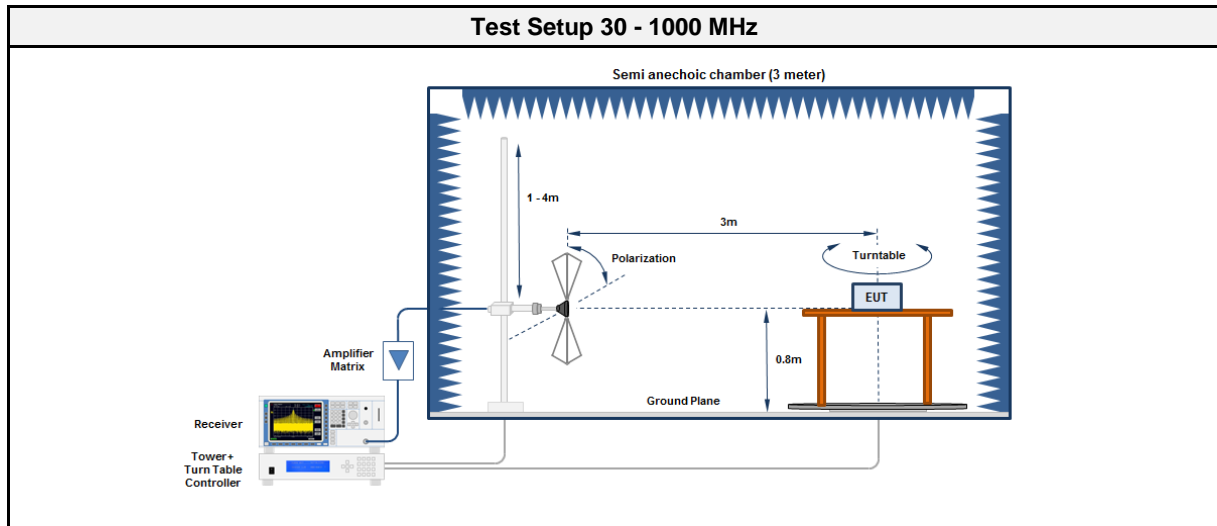
3.1.1 Information

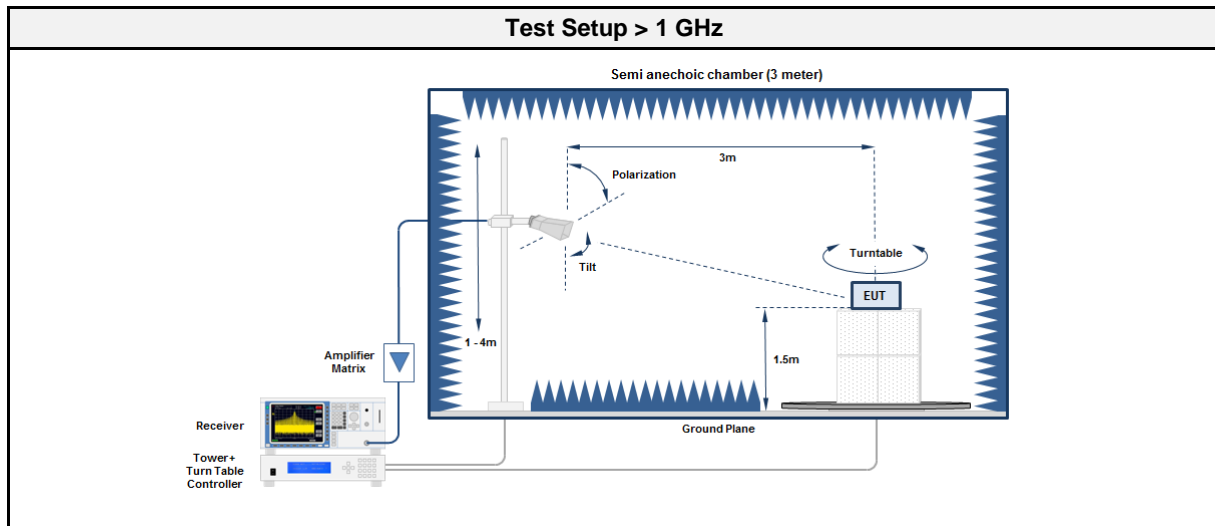
Test Information	
Reference	FCC § 22.917(a) / FCC § 15.247 ISED RSS-132 § 4.5 / ISED RSS-247
Measurement Method	ANSI/TIA-603-D / ANSI C63.26-2015 5.5
Measurement Uncertainty	± 5.95 dB
Operator	Burkhard Pudell
Date	2022-02-21 - 2022-02-26
Comment: Measurements above 1 GHz were done in anechoic chamber AC2 as premeasurements. Results with a margin of less than 18 dB distance to the limit were validated with final measurements in anechoic chamber AC1.	

3.1.2 Limits

Limits	
Carrier frequency range [MHz]	Limit
824-849	Attenuation below transmitter power $\geq 43 + 10 \cdot \log_{10}(P)$ [dB] = -13 dBm
2400 – 2483.5	Attenuation below transmitter power $\geq 43 + 10 \cdot \log_{10}(P)$ [dB] = -13 dBm

3.1.3 Setup





3.1.4 Equipment

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00187	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC 2	EF01616	2021-05	2022-05
Spectrum Analyzer	R&S	FSU43	EF01631	2021-07	2022-07
Horn Antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2022-03
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.1.5 Procedure

Test Procedure 30 - 1000 MHz
<ol style="list-style-type: none"> EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground EUT set to test mode The receiver is set to peak detection with max hold The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
<ol style="list-style-type: none"> EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground EUT set to test mode The receiver is set to peak detection with max hold The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m All significant emissions are measured again using the corresponding final detector

3.1.6 Results

Test Results – GSM 850 + Bluetooth BR						
Frequency [MHz]	Mode	Emission [MHz]	Level [dBm]	Pol.	Limit [dBm]	Margin [dB]
836.4 2480	GSM850 / GMSK + DH5 Single	1672	-36.70	ver	-13.00	-23.65
836.4 2480	GSM850 / GMSK + DH5 Single	1672	-35.10	ver	-13.00	-22.08

3.2 Test Conditions and Results - AC powerline conducted emissions

3.2.1 Information

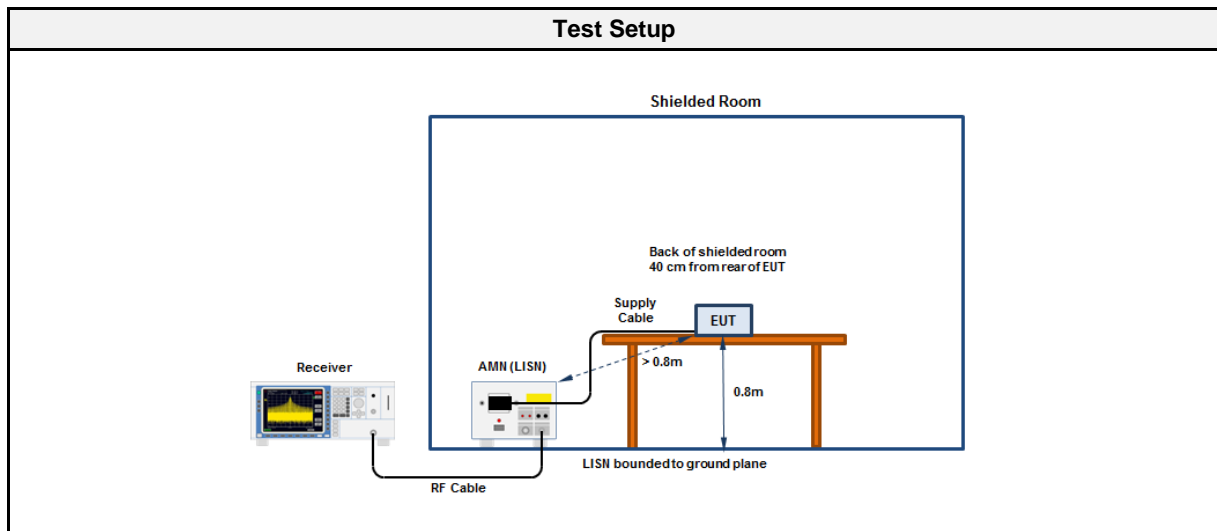
Test Information	
Reference	FCC § 15.207; ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.2
Measurement Uncertainty	± 3.82 dB
Operator	Odai Qawasmeh
Date	2022-02-24

3.2.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dBµV]	Average [dBµV]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50

* Limit decreases linearly with the logarithm of the frequency

3.2.3 Setup

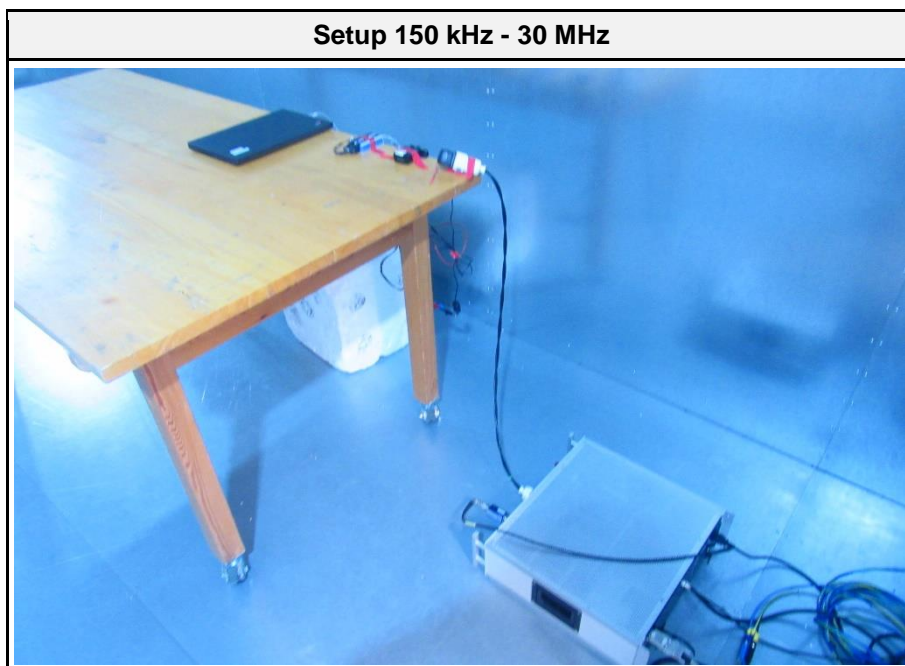
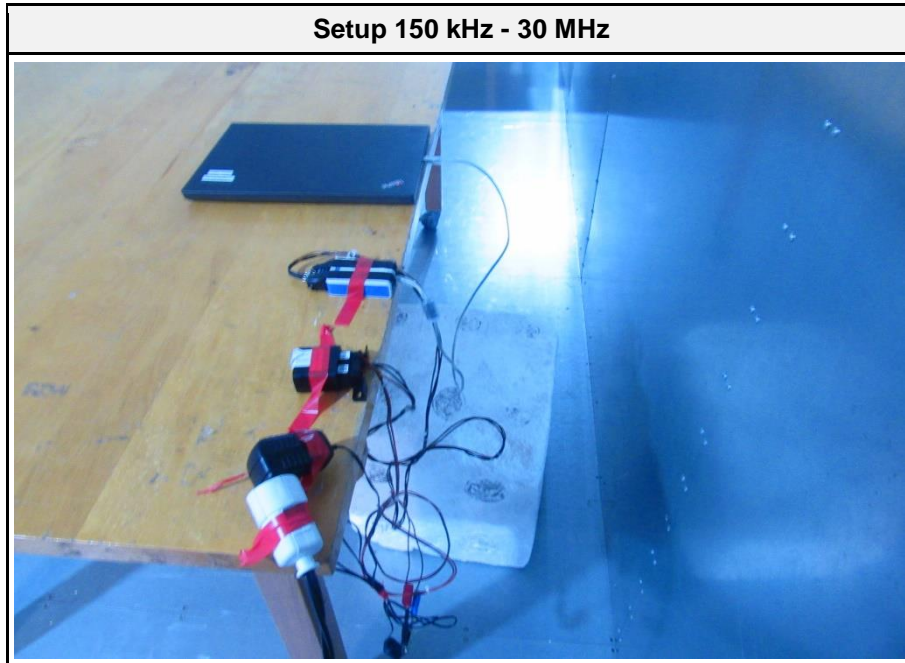


3.2.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	EF00943	2021-08	2022-08
Pulse Limiter	R&S	ESH3-Z2	EF01222	2021-07	2022-07
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2021-07	2022-07

3.2.5 Setup Photos



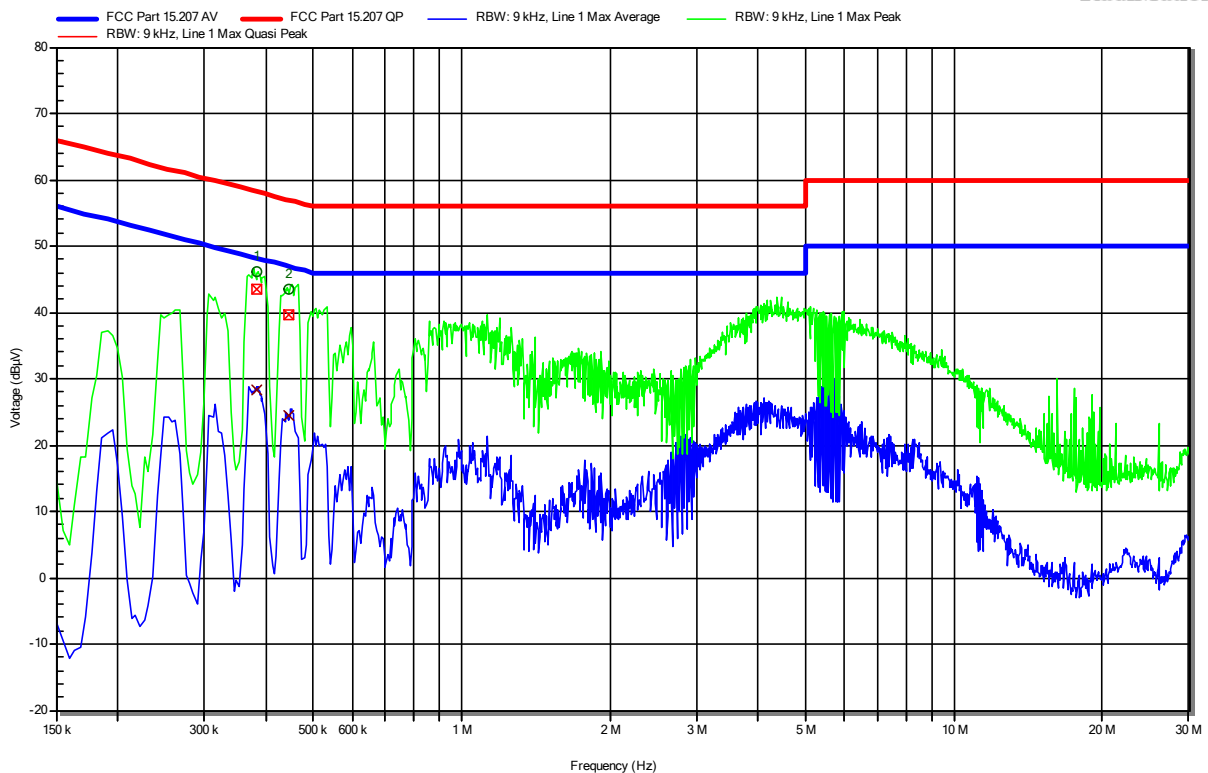
3.2.6 Results

Conducted emissions at the mains power port according to Part 15.247, FCC Part 22H, ISED RSS-247, Issue 2, ISED RSS-132, Issue 3

Project Number: G0M-2108-9942
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-02-24
 Operating Conditions: ambient temperature: 24 °Celsius; power input: 12 VDC
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode & EUT Configuration: BT-BR DH5; 2480 MHz + GSM 850 CH 189 Tx+ GNSS on
 Applied to Port: Mains

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	384.9 kHz	43.38 dBµV	58.17 dBµV	-14.8 dB	Pass	Line 1
2	447 kHz	39.66 dBµV	56.93 dBµV	-17.27 dB	Pass	Line 1

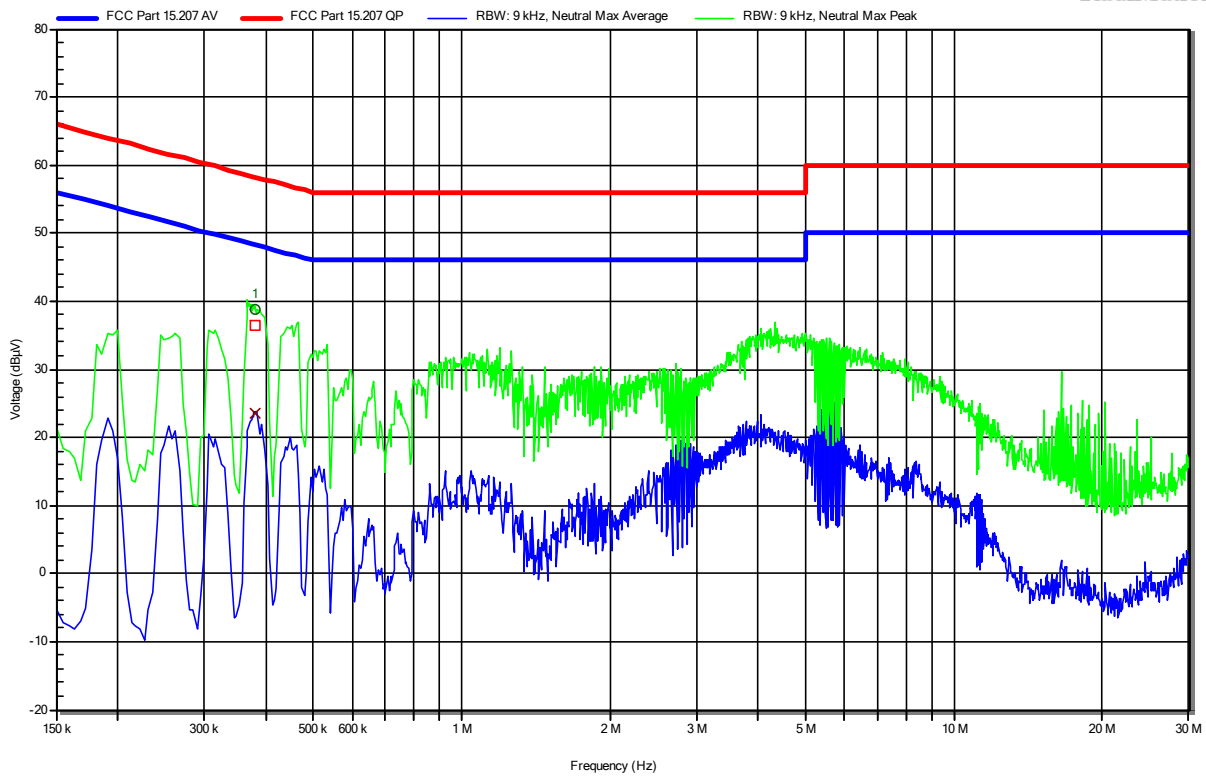
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	384.9 kHz	28.36 dBµV	48.17 dBµV	-19.82 dB	Pass	Line 1
2	447 kHz	24.35 dBµV	46.93 dBµV	-22.58 dB	Pass	Line 1

Conducted emissions at the mains power port according to Part 15.247, FCC Part 22H, ISED RSS-247, Issue 2, ISED RSS-132, Issue 3

Project Number: G0M-2108-9942
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2022-02-24
 Operating Conditions: ambient temperature: 24 °Celsius; power input: 12 VDC
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode & EUT Configuration: BT-BR DH5; 2480 MHz + GSM 850 CH 189 Tx+ GNSS on
 Applied to Port: Mains

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	379.5 kHz	36.5 dBµV	58.29 dBµV	-21.79 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	379.5 kHz	23.55 dBµV	48.29 dBµV	-24.74 dB	Pass	Neutral

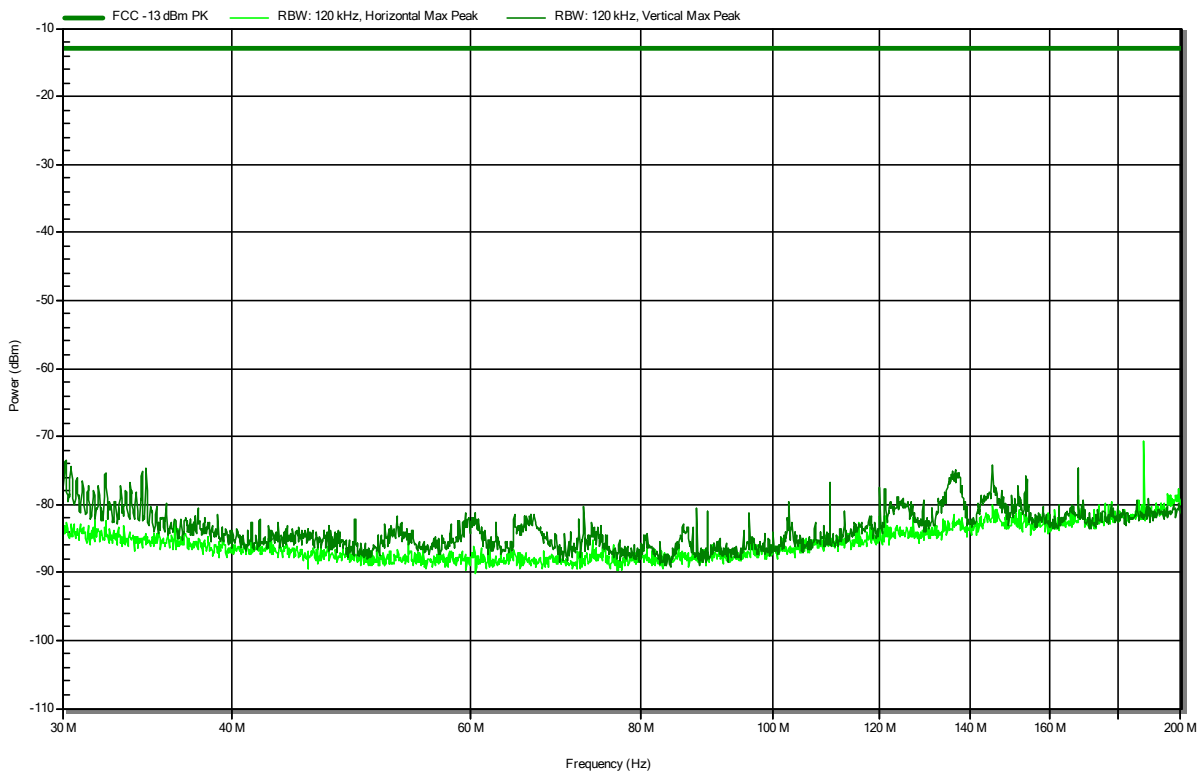
ANNEX A Transmitter spurious emission

Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-22
 Note: EUT horizontal

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RadiMation

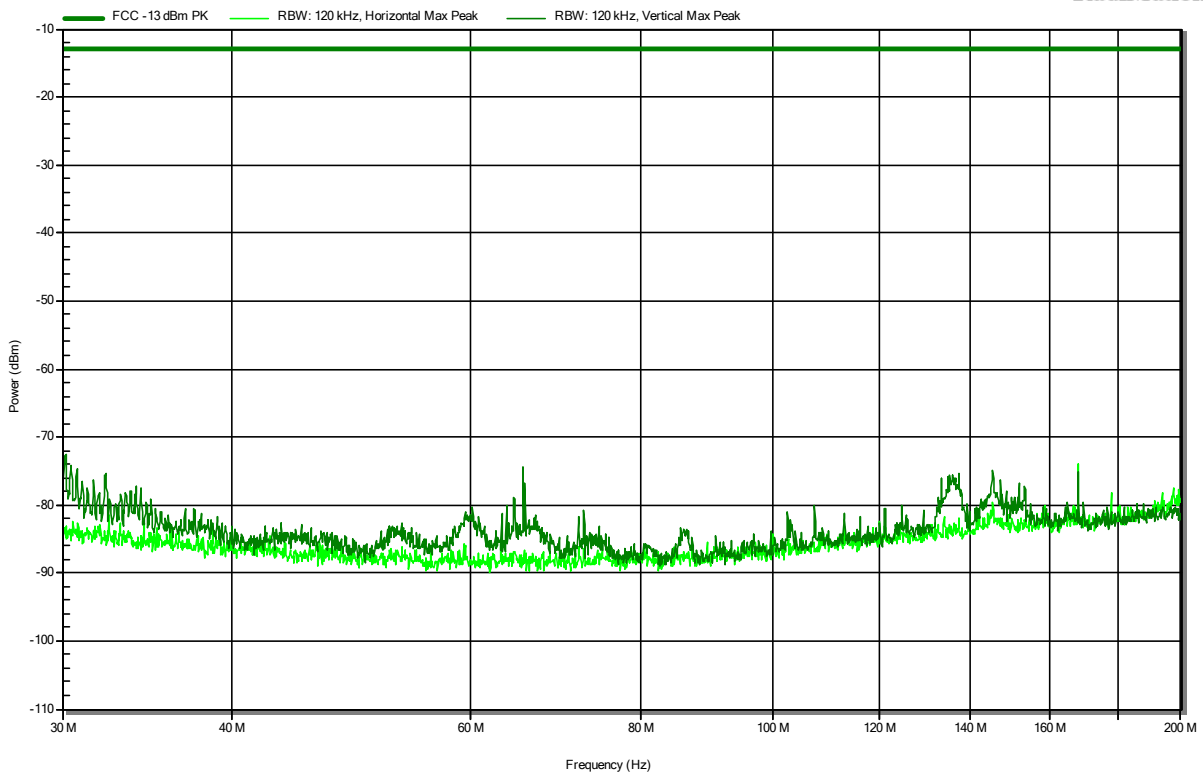


Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-22
 Note: EUT vertical

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RadiMation

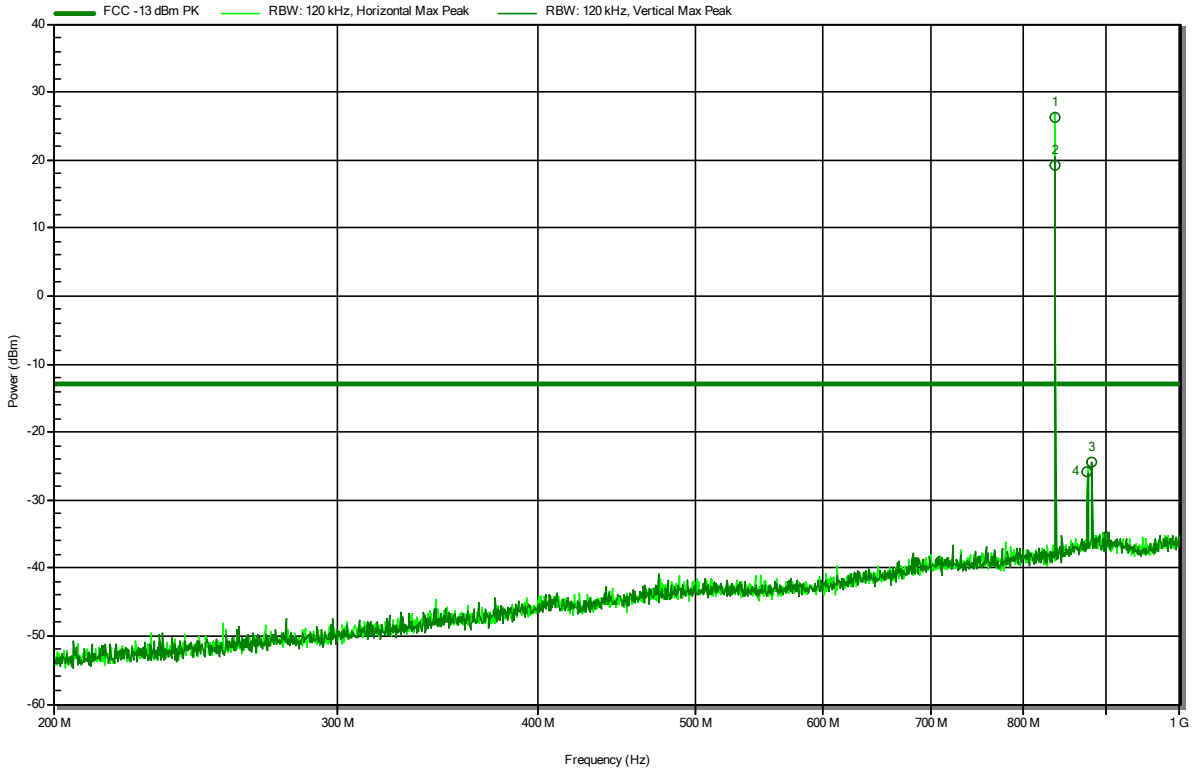


Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-22
 Note: EUT horizontal

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RadiMation



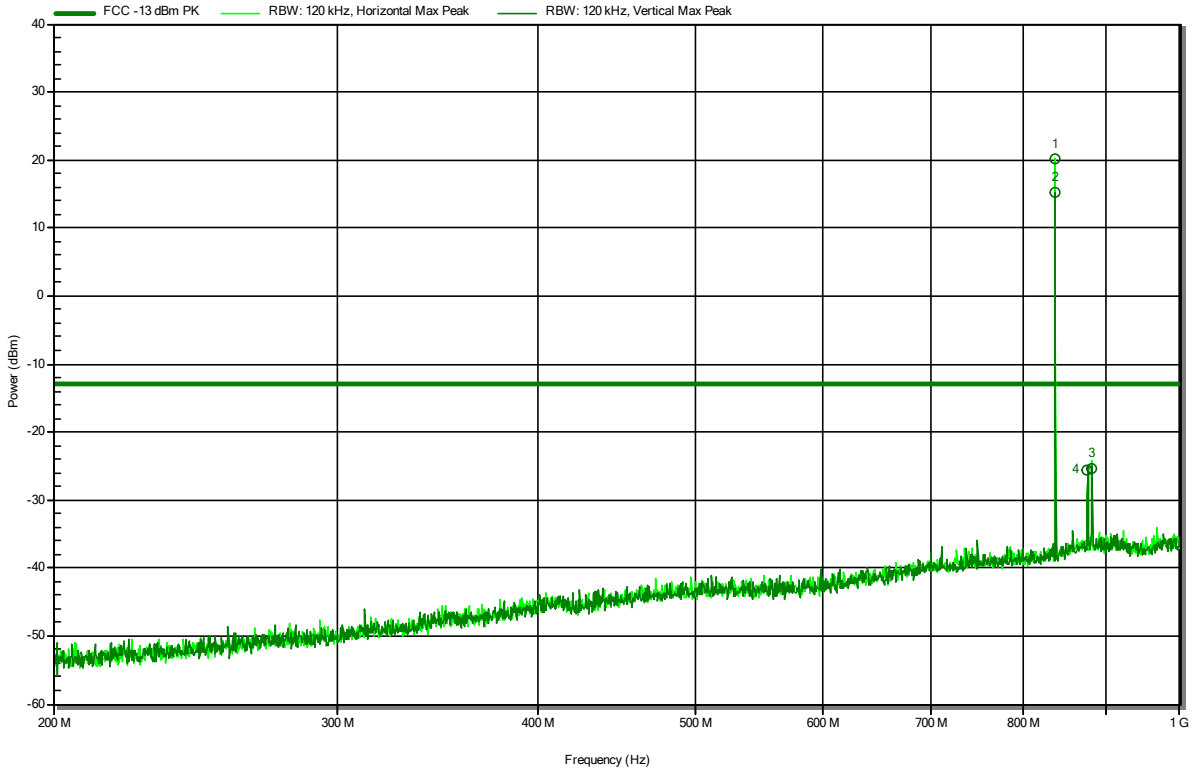
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
836.2 MHz	19.2 dBm	-13 dBm		UL - Carrier	Vertical
836.3 MHz	26.2 dBm	-13 dBm		UL - Carrier	Horizontal
880 MHz	-25.7 dBm	-13 dBm		DL - Carrier	Horizontal
881.26 MHz	-24.4 dBm	-13 dBm		DL - Carrier	Vertical

Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-22
 Note: EUT vertical

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RadiMation



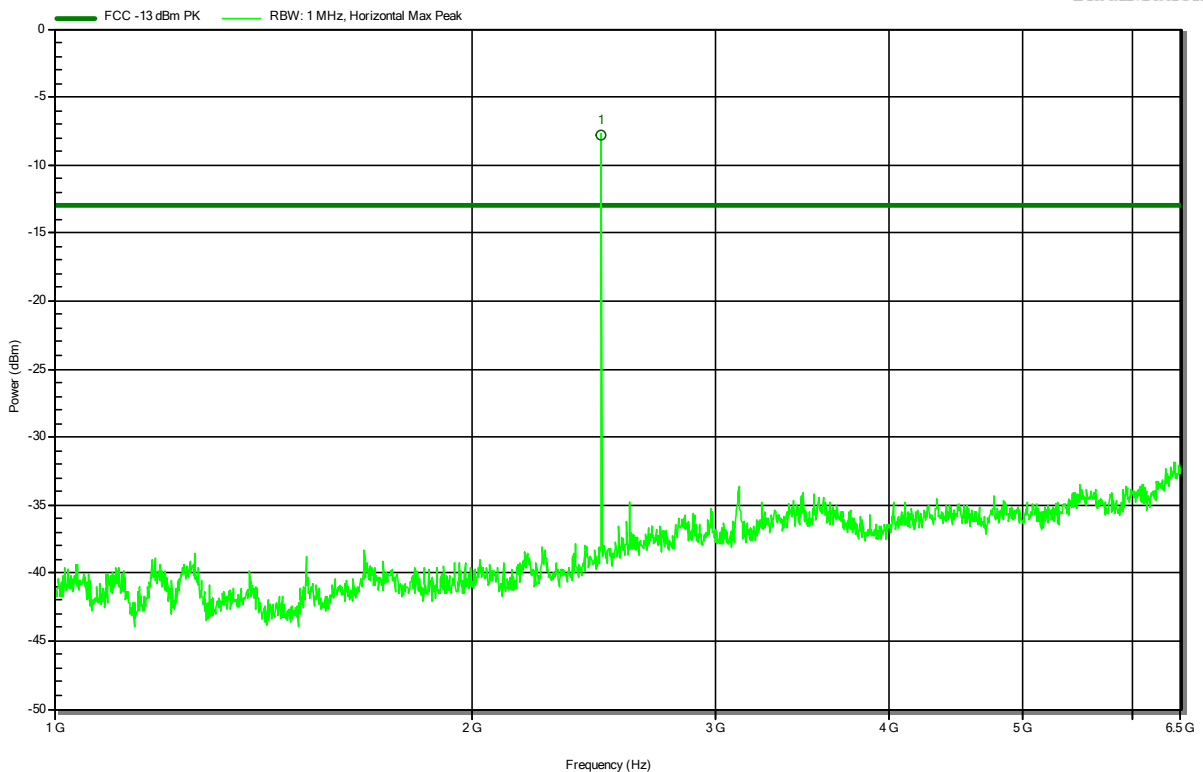
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
836.1 MHz	15.2 dBm	-13 dBm		UL - Carrier	Vertical
836.14 MHz	20.1 dBm	-13 dBm		UL - Carrier	Horizontal
880.02 MHz	-25.6 dBm	-13 dBm		DL - Carrier	Vertical
881.1 MHz	-25.4 dBm	-13 dBm		DL - Carrier	Vertical

Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs Hoang
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Schwarzbeck BBHA 9120B, Horizontal
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-21
 Note: EUT horizontal

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RadiMation



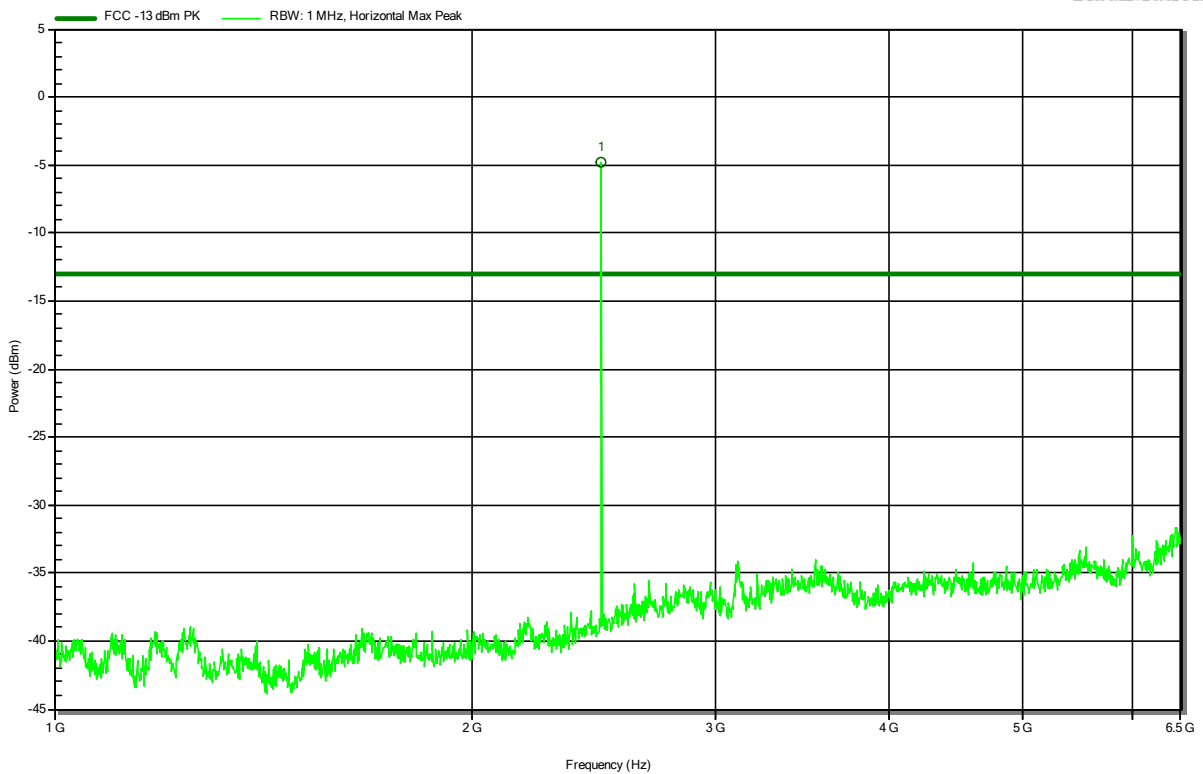
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.48 GHz	-7.8 dBm	-13 dBm		BT - Carrier

Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs Hoang
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Schwarzbeck BBHA 9120B, Horizontal
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-21
 Note: EUT vertical

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RadiMation



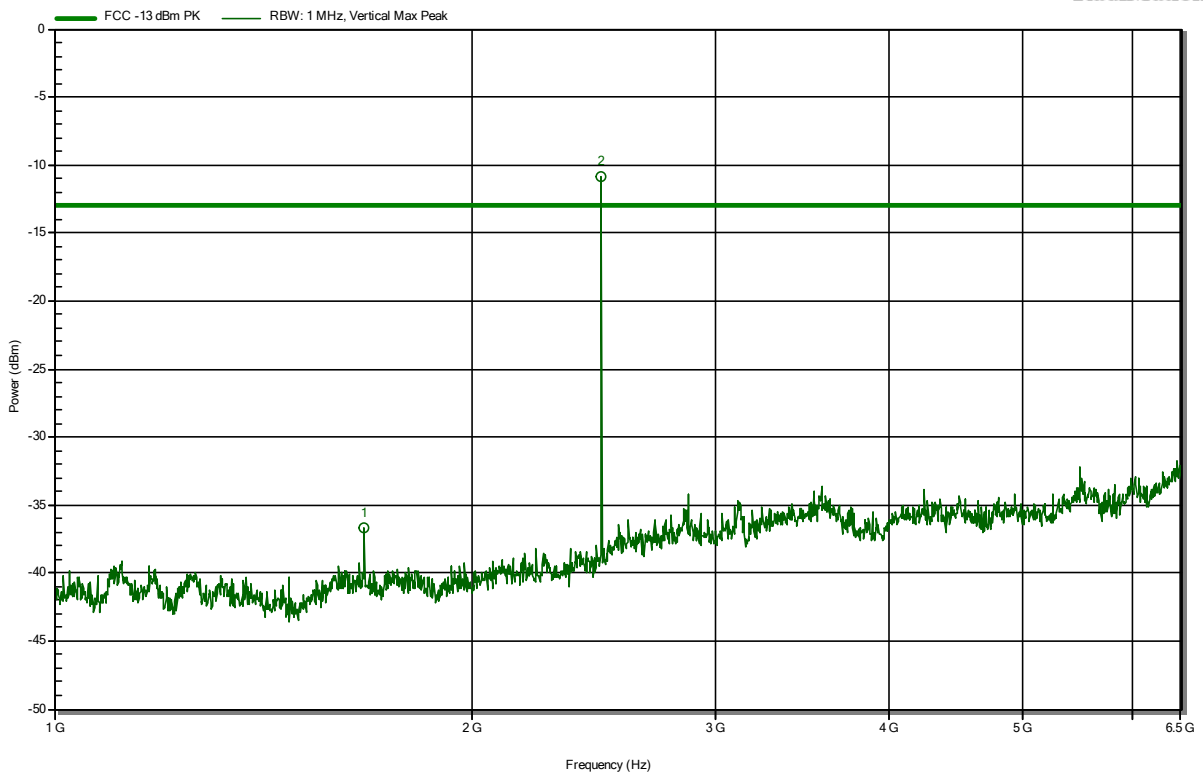
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.48 GHz	-4.9 dBm	-13 dBm		BT - Carrier

Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs Hoang
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Schwarzbeck BBHA 9120B, Vertical
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-21
 Note: EUT horizontal

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RadiMation



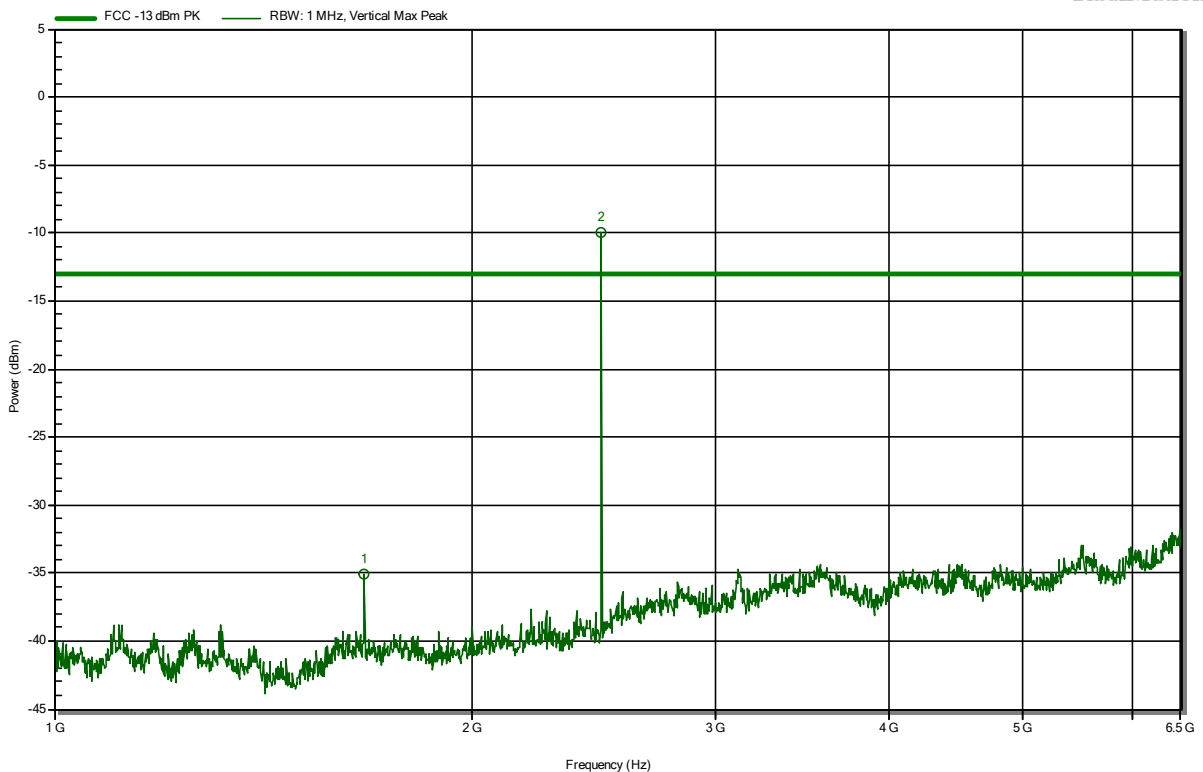
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.672 GHz	-36.7 dBm	-13 dBm	-23.65 dB	Pass
2.48 GHz	-10.9 dBm	-13 dBm		BT - Carrier

Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs Hoang
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Schwarzbeck BBHA 9120B, Vertical
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-21
 Note: EUT vertical

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RadiMation



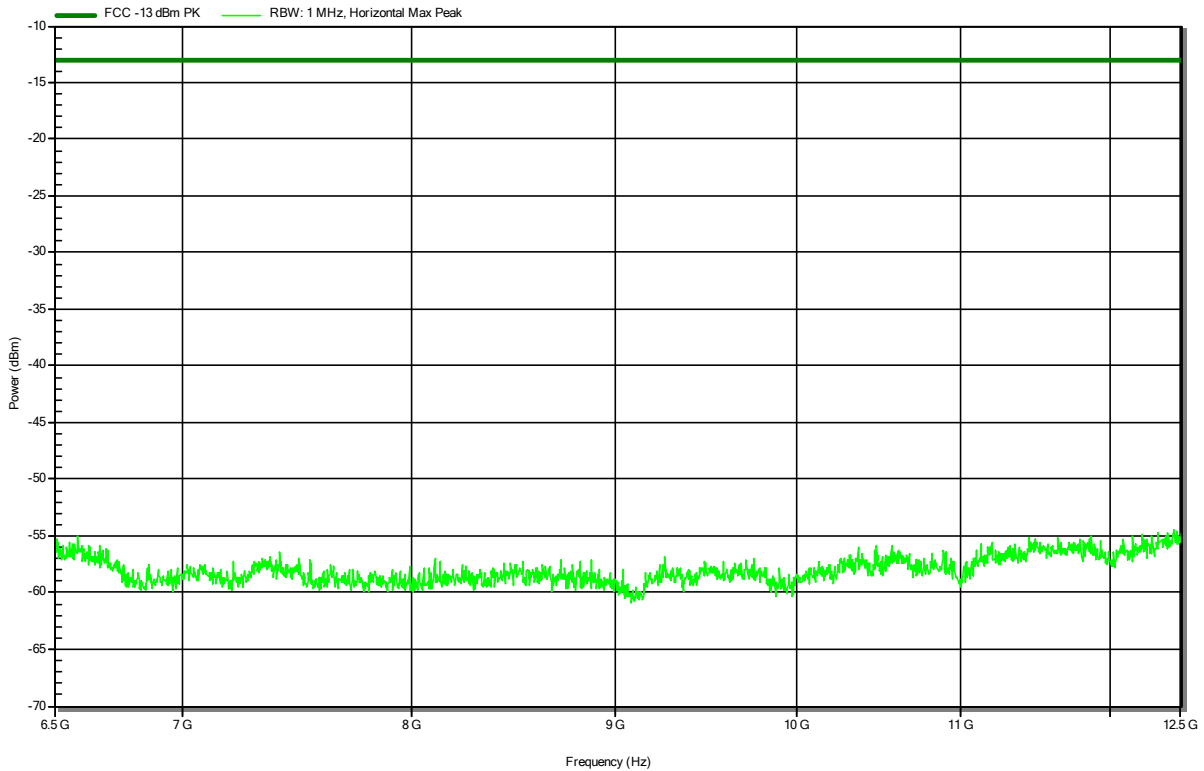
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.672 GHz	-35.1 dBm	-13 dBm	-22.08 dB	Pass
2.48 GHz	-10 dBm	-13 dBm		BT - Carrier

Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481100006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs Hoang
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Schwarzbeck HWRD 650, Horizontal
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-21
 Note: EUT horizontal

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RadiMation

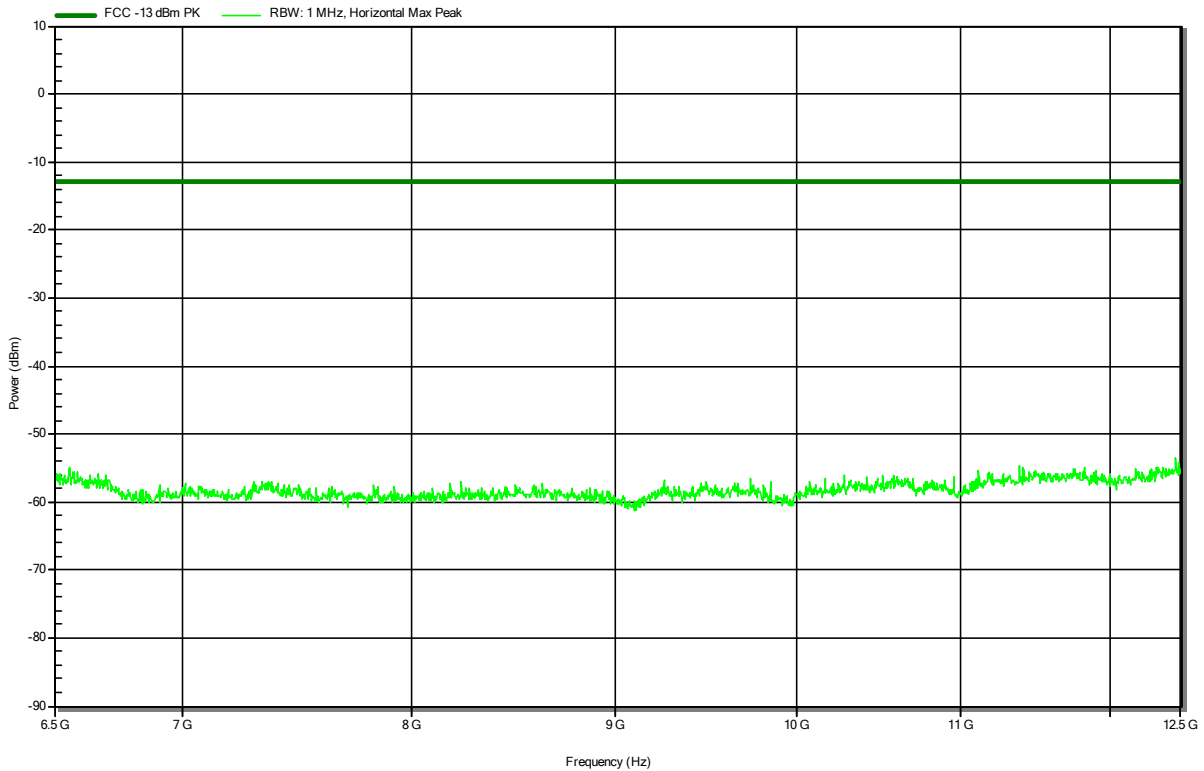


Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs Hoang
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Schwarzbeck HWRD 650, Horizontal
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-21
 Note: EUT vertical

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RadiMation

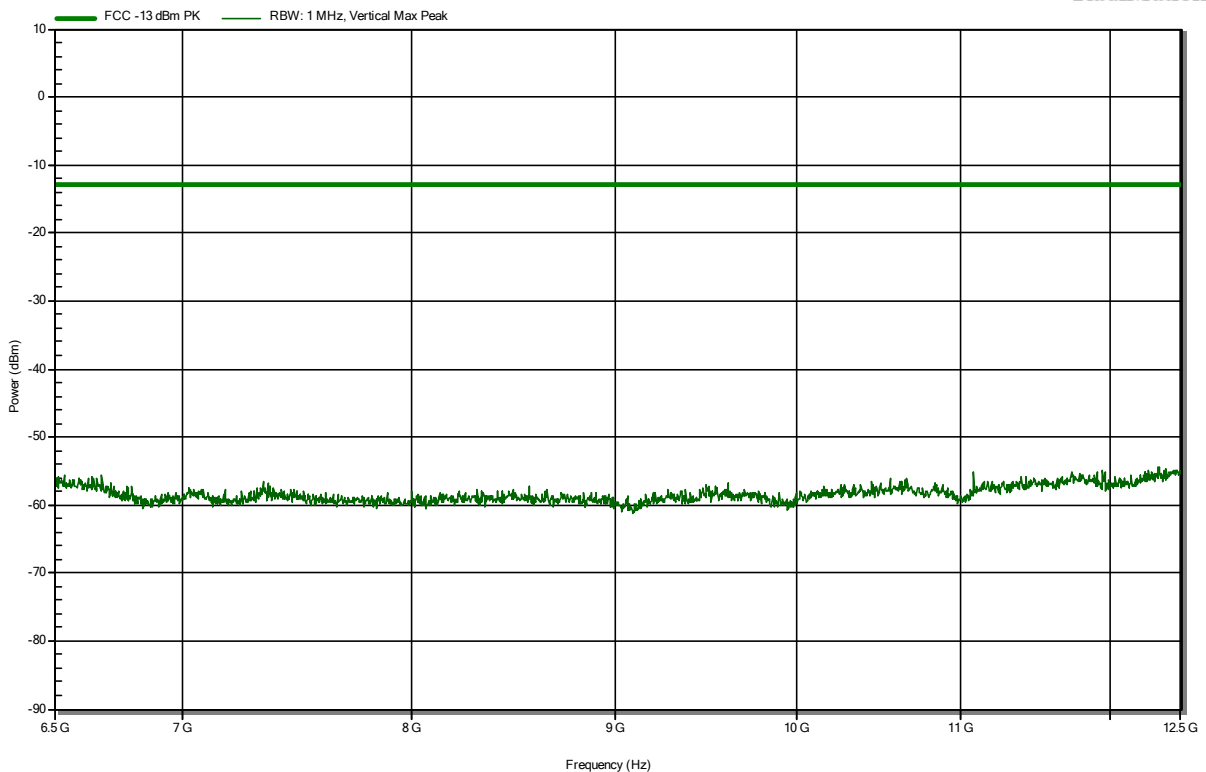


Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs Hoang
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-21
 Note: EUT horizontal

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RadiMation

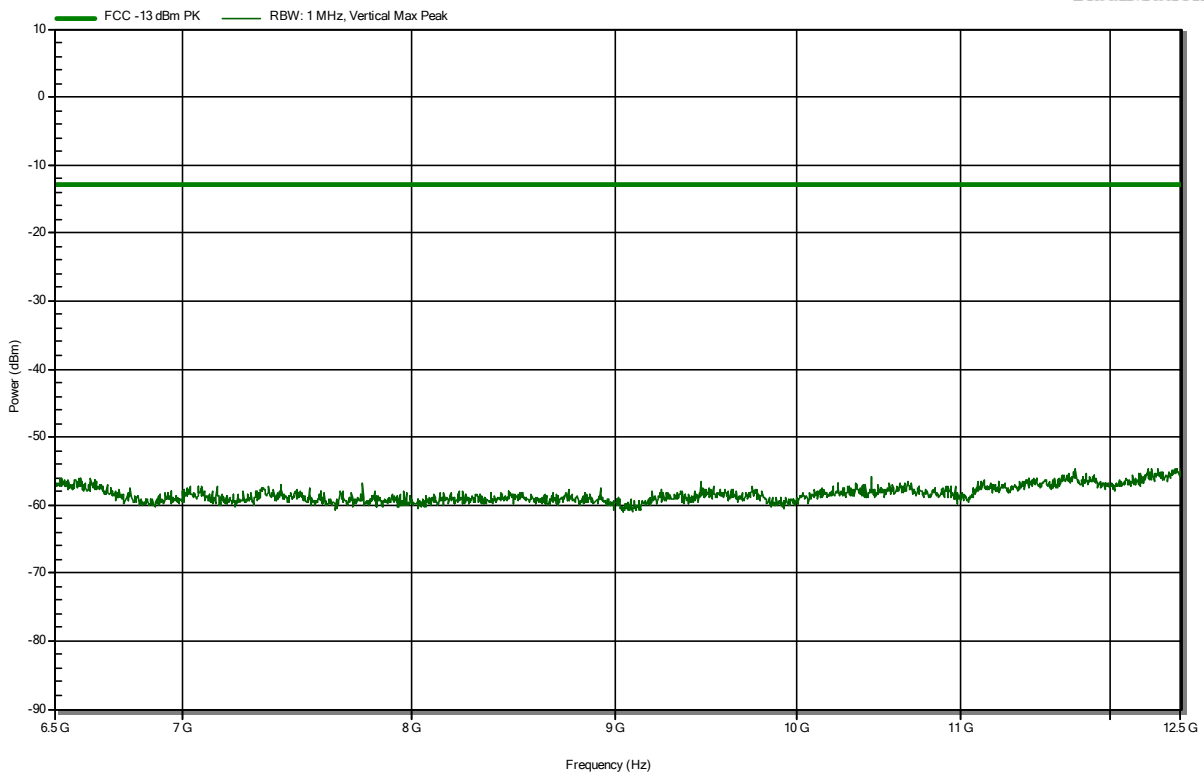


Radiated Spurious Emissions according to 47 CFR Part 22 Subpart H, RSS-132, Issue 3, 47 CFR Part 15.247, RSS-247

Project Number: G0M-2108-9942
 Applicant: Webfleet Solutions Development Germany GmbH
 Model Description: Telematic Device with GSM+LTE+GNSS+OBD connector
 Model: L0245
 Test Sample ID: 38032 (SN: WY4481I00006)
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs Hoang
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 12 VDC
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Multi Tx, GPRS 850 Ch 189 + BT-BR Ch 2480 DH5 + GNSS on
 Test Date: 2022-02-21
 Note: EUT vertical

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=== END OF TEST REPORT ===