

TEST REPORT No.: 18-1-0245401T06a-C1

According to: FCC Regulations Part 1.1310 Part 2.1091

IC-Regulations RSS-102, Issue 5

for

Veoneer US, Inc.

77V12FLR 77 GHZ FLR Radar Sensor

FCC: WU877V12FLR ISED: 8436B-77V12FLR PMN: Veoneer 77V12FLR HVIN: 77V12FLR

Laboratory Accreditation and Listings



accredited according to DIN EN ISO/IEC 17025

CETECOM GmbH

Laboratory Radio Communications & Electromagnetic Compatibility
Im Teelbruch 116 • 45219 Essen • Germany
Registered in Essen, Germany, Reg. No.: HRB Essen 8984
Tel.: + 49 (0) 20 54 / 95 19-0 • Fax: + 49 (0) 20 54 / 95 19-150
E-mail: info@cetecom.com • Internet: www.cetecom.com



Table of contents

1. SUMMARY OF TEST RESULTS	3
1.1. Summary of tests results	
1.2. Attestation:	3
2. ADMINISTRATIVE DATA	4
2.1. Identification of the testing laboratory	4
2.2. Test location	4
2.3. Organizational items	
2.4. Applicant's details	
2.5. Manufacturer's details	
3. EQUIPMENT UNDER TEST (EUT)	
3.1. Summary of product description	
3.2. EUT Technologies	
3.3. Antenna Information	
3.4. EUT: Type, S/N etc. and short descriptions used in this test report	
3.6. EUT set-ups	
3.7. EUT operating modes	
4. MEASUREMENTS	7
4.1. Radio Frequency Exposure Evaluation §2.1091	
4.1.1. Test location and equipment (for reference numbers please see chapter 'List of test equipment')	
4.2. Requirements and limits for RSS Standard	
4.3. MPE Calculation method	
4.4. Evaluation Method	
4.5. Results for fixed and mobile	
4.6. Conclusion 4.7. Measurement uncertainties	
5. ABBREVIATIONS USED IN THIS REPORT	
6. ACCREDITATION DETAILS OF CETECOM'S LABORATORIES AND TEST SITES	
7. VERSIONS OF TEST REPORTS (CHANGE HISTORY)	14
Table of annex	Total pages
Annex 1: Separate document applicant's document "Tune Up Information 77V12FLR"	01
Annex 2: Separate document applicant's document "Photos_External 77V12FLR-1551807157"	07

The listed attachments are an integral part of this report.



1. Summary of test results

The test results apply exclusively to the test samples as presented in this Report. The CETECOM GmbH does not assume responsibility for any conclusions and generalizations taken in conjunction with other specimens or samples of the type of the item presented to tests.

The presented Equipment Under Test (in this report, hereinafter referred as EUT) integrates a Radar 76 GHz RF Transceiver. Other implemented wireless technologies were not considered within this test report. Following tests have been performed to show compliance with applicable FCC Part 2.1091 and FCC Part 1.1310 of the FCC CFR 47 Rules.

1.1. Summary of tests results

	/				Summery of tests results					
RF-	RF-Exposure Evaluation (separation distance user to RF-radiating element greater 20cm)									
			References & Limits			TOTAL	EUT			
Test cases	Port	FCC	Test Limit	RSS	Test Limit	EUT	op.	Result		
		Standard		Standard		set-up	mode			
Radio frequency radiation exposure Requirements	Cabinet	\$1.1310 \$2.1091 \$2.1093	RF-Field Strength Limits: FCC: "general population/ uncontrolled" environment	RSS- 102, Issue 5	Chapter 4 Table 4	1	2	PASS		

Remark: Calculations based on Datasheet delivered by applicant

1.2. Attestation:

I declare that all measurements were performed by me or under my supervision and that all measurements have been performed and are correct to my best knowledge and belief to Industry Canada standards. All requirements as shown in above table are met in accordance with enumerated standards.

The current version of the Test Report CETECOM_TR18-1-0245401T06a-C1 replaces the Test Report CETECOM_TR18-1-0245401T06a dated 2019-03-20. The replaced Test Report is herewith invalid.

DiplIng. Niels Jeß	M. Schäfers
Responsible for test section	Responsible for test report



2. Administrative Data

2.1. Identification of the testing laboratory

Company name: CETECOM GmbH

Address: Im Teelbruch 116

45219 Essen - Kettwig

Germany

Responsible for testing laboratory: Dipl.-Ing. Volker Wittmann

Deputy: Dipl.-Ing. Niels Jeß

2.2. Test location

2.2.1. Test laboratory "CTC"

Company name:	see chapter 2.1. Identification of the testing laboratory
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2.3. Organizational items

Responsible for test report: M. Schäfers

Receipt of EUT: -Date(s) of test: --

Date of report: 2019-06-04

2.4. Applicant's details

Applicant's name: Veoneer US, Inc.

Address: 26360 American Drive Southfield, MI 48034

USA

Contact person: Mr. Stefan Gipser

2.5. Manufacturer's details

Manufacturer's name: please see applicant's details

Address: please see applicant's details



3. Equipment under test (EUT)

3.1. Summary of product description

FCC ID:	WU877V12FLR		
Product name	77 GHZ FLR Radar Sensor		
Exposure category	☐ General population/uncontrolled environment ☐ Occupational exposure/controlled environment		
Output power	☐ Conducted ☐ ERP ☐ EIRP ☐ Peak ☐ Source-based time-averaging		
Antenna gain	details refer Annex 1		
Antenna Type	 ✓ Integrated ☐ External, no RF- connector ☐ External, separate RF-connector 		
Evaluation type			
Evaluation distance	∑ 20 cm ☐ XXX cm	declares by manufacturer	
EUT type	☐ Production Unit ☐ Pre-Production Unit ☐ Engineering Unit		
Device type			
Refer rules	 ☐ CFR 47 FCC Part 2.1091 ☐ CFR 47 FCC Part 1.1310 ☐ KDB 447497 D01v06 October 23, 2015 ☐ KDB 865664 D01v01r02 October 23, 2015 ☐ Market Part 2.1091 		

3.2. EUT Technologies

Wireless Technologies	Frequency bands	Operation mode
⊠Radar	⊠76GHz	⊠AEB ⊠ACC

3.3. Antenna Information

Wireless	Frequency bands	Maximum antenna gain
Technologies		
⊠Radar	⊠76GHz	refer to Annex 1



3.4. EUT: Type, S/N etc. and short descriptions used in this test report

Short description*)	EUT	Туре	S/N serial number	HW hardware status	SW software status
EUT A S 08	77 GHz FLR Radar Sensor	77V12FLR	80182	FLR_1.0	R255_31_14D24_3

^{*)} EUT short description is used to simplify the identification of the EUT in this test report.

3.5. Auxiliary Equipment (AE): Type, S/N etc. and short descriptions

AE short description *)	Auxiliary Equipment	Туре	S/N serial number	HW hardware status	SW software status
AE 1		1	-		

^{*)} AE short description is used to simplify the identification of the auxiliary equipment in this test report.

3.6. EUT set-ups

EUT set-up no.*)	Combination of EUT and AE	Remarks	
set. 1	EUT A		

^{*)} EUT set-up no. is used to simplify the identification of the EUT set-up in this test report.

3.7. EUT operating modes

EUT operating mode no.*)	Description of operating modes	Additional information
op. 1	AEB	Only theoretically calculation
op. 2	ACC	Only theoretically calculation

^{*)} EUT operating mode no. is used to simplify the test report.



4. Measurements

4.1. Radio Frequency Exposure Evaluation §2.1091

4.1.1. Test location and equipment (for reference numbers please see chapter 'List of test equipment')

I Cot lot	eation and equipment (for ference	mee numbers preuse see enupter	zist of test equipment)
test location	☑ CETECOM Essen (Chapter. 2.2.1)	☐ Please see Chapter. 2.2.2	☐ Please see Chapter. 2.2.3
	For Evaluation instruments are not needed	d. Results are determined by calculation ba	sed on applicants delivered Tune-Up
	procedure.		

4.1.2. Requirements

FCC: §1.1310	The criteria used for the evaluation of human exposure to radio frequency radiation is table 1 according FCC §1.1310 and table chapter 4.2 of RSS-102 standard and it is subject for evaluation of the RF exposure prior to equipment authorization. As the mobile equipment is authorized under Part 22 (Subpart H) and Part 24 of the FCC Rules, it is subject for evaluation of the RF exposure prior to equipment authorization.
FCC § 2.1091	Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation." For purposes of these requirements mobile devices are defined by the FCC as transmitters designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between radiating structures and the body of the user or nearby persons. These devices are normally evaluated for exposure potential with relation to the MPE limits given in Table 1 of Appendix A.

4.1.2.1. Valid for FCC

Table 1: LIMITS FO	Table 1: LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)									
Frequency range	Electric field strength	strength Magnetic field strength Power density								
[MHz)	[V/m]	[A/m]	[mW/cm ²]	[minutes]						
30 - 300	61.4	0.163	1.0	6						
300 - 1500	-		f/300	6						
1500 - 100,000	-		5	6						
	(B) Limits for	r General Population / Uncontrolle	ed Exposure							
0.3 - 1.34	614	1.63	*(100)	30						
1.34 - 30	824/f	2.19/f	*(180/f²)	30						
30 - 300	27.5	0.073	0.2	30						
300 - 1500	-	-	f/1500	30						
1500 - 100,0	-	-	1.0	30						

f=frequency in MHz

NOTE1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. These limits apply to amateur station licensees and members of their immediate household as discussed in the text.

NOTE2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. As discussed in the text, these limits apply to neighbours living near amateur radio stations.

^{*}Plane-wave equivalent power density



4.1.3 General Limits:

FCC: §1.1307	Cellular Radiotelephone Service (subpart H of part 22) Non-building-mounted antennas: height above ground level to lowest point of antenna < 10 m and total power of all channels > 1000 W ERP (1640 W EIRP)
FCC §1.1307	Personal Communications Services (part 24) Broadband PCS (subpart E): non-building-mounted antennas: height above ground level to lowest point of antenna < 10 m and total power of all channels > 2000 W ERP (3280 W EIRP)
FCC §1.1310	LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) Table 1(B) Limits for General Population/Uncontrolled Exposure 300–1500 MHz: f/1500 mW/cm² 1500–100,000 MHz: 1.0 mW/cm²
FCC §2.1091	Subject to routine evaluation is required when the device operate at frequencies of 1.5 GHz or below and their effective radiated power (ERP) is 1.5 watts or more, or if they operate at frequencies above 1.5 GHz and their ERP is 3 watts or more.
FCC §24.232	(a) Base stations are limited to 1640 watts peak equivalent isotropically radiated power (e.i.r.p.) with an antenna height up to 300 meters HAAT. b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power,
FCC §22.913	(a) Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
FCC §27.50 (C)(10)	(10) Portable stations (hand-held devices) are limited to 3 watts ERP; and
FCC §27.50(d)	(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band are limited to 1 watt EIRP.
KDBs	No. 447498 D01 v06



4.2. Requirements and limits for RSS Standard

2.5 Exemption Limits for Routine Evaluation

All transmitters are exempt from routine SAR and RF exposure evaluations provided that they comply with the requirements of $\underline{\text{sections } 2.5.1}$ or $\underline{\text{2.5.2}}$. If the equipment under test (EUT) meets the requirements of sections 2.5.1 or 2.5.2, applicants are only required to submit a properly signed declaration of compliance (see $\underline{\text{Annex } C}$). The information contained in the RF exposure technical brief may be limited to the value(s) of the maximum output power, the information that demonstrates how the maximum output power of the transmitter was derived and the rationale for the separation distances applied (see $\underline{\text{Table } 1}$), which must be based on the most conservative exposure condition for the applicable module or host platform test procedure requirements.

2.5.2 Exemption Limits for Routine Evaluation — RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10^{-2} $f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

2.6 User Manual Requirements

The applicant is responsible for providing proper instructions to the user of the radio device, and any usage restrictions, including limits of exposure durations. The user manual shall provide installation and operation instructions, as well as any special usage conditions (e.g. proper accessory required, including the proper orientation of the device in the accessory, maximum antenna gain in the case of detachable antenna), in order to ensure compliance with SAR and/or RF field strength limits. For instance, compliance distance shall be clearly stated in the user manual.

The user manual of devices intended for controlled use shall also include information relating to the operating characteristics of the device; the operating instructions to ensure compliance with SAR and/or RF field strength limits; information on the installation and operation of accessories to ensure compliance with SAR and/or RF field strength limits; and contact information where the user can obtain Canadian information on RF exposure and compliance. Other related information may also be included.

4.3. MPE Calculation method

RSS-102, Issue 5

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{EIRP}{4\pi R^2} = \frac{P * G}{4\pi R^2}$$

$$G_{NUMERIC} = \frac{S * 4\pi R^2}{P}$$

Where: S=power density
P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the centre of radiation of the antenna



4.4. Evaluation Method

4.4.1. Standalone

Valid for Radar:

- The peak power was checked on 3 frequencies (lowest/middle/highest) within the 76GHz band and the results compared to applicant's declared power values (datasheet).
- No duty-cycle correction factor is applicable

Please find in the following tables the calculations based on applicants datasheet for the power values and antenna gain.

4.5. Results for fixed and mobile

4.5.1. Results for FCC Standard 4.5.1.1. MPE results for 76GHz

Operation Mode	Frequency on channel (MHz)	maximum conducted	Max. positive tolerance according manufacturer 's tune-up info (dB)	Antenna Gain	Calculated maximum EIRP (Output power + Tune-up)	Duty cycle	Maximum EIRP	Calculated ERP incl. Duty cycle ((Output power + Tune-up)) x Duty cycle) (mW)	MPE Limit accord. Table 1 (mW/cm^2)	MPE-Value (mW/cm^2)	Margin to Limit: (mW/cm^2)	Fraction for Co-location calculations	Maximum Fraction Value within Frequency band
	76135,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	
AEB	76416,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	0,2810
	76697,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	
	76038,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	
ACC	76142,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	0,2810
	76245,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	
	76278,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	
ACC	76382,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	0,2810
	76485,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	
	76518,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	
ACC	76622,0	10,00	3,50	18,00	31,50	100%	1,413	1412,54	1,0000	0,28102	0,7190	0,2810	0,2810
	76725.0	10.00	3.50	18.00	31.50	100%	1.413	1412.54	1,0000	0,28102	0.7190	0.2810	

Maximum calculated MPE value:							
	76GHz						
Lowest MPE- Limit: 1,0000 [W/m^2]							
Highest MPE- value:	0,2810	[W/m ^2]					
Margin to limit	[W/m ^2]						

- 1. Output power including tune-up tolerance;
- 2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
- 3. MPE evaluate distance is 20cm from user manual provide by manufacturer;
- 4. Depending on output power and antenna gain only the worst case is reported;



4.5.2. Results for RSS Standard 4.5.2.1. MPE Results for 76GHz

Exemption Limits for Routine Evaluation — RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

At or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

Distance	20	cm								
Operation Mode	Frequency on channel	maximum conducted output power	Max. positive tolerance according manufacturer 's tune-up info	Antenna Gain	ERP (dBm)	Duty cycle	Maximum EIRP	Equivalent EIRP (EIRP x duty cycle)	2.5.2 Exemption Limits for Routine Evaluation	Excemption fullfiled ?
	(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(%)	(W)	(W)	(W)	
	76135,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
AEB	76416,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
	76697,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
	76038,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
ACC	76142,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
	76245,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
	76278,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
ACC	76382,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
	76485,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
	76518,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
ACC	76622,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes
	76725,0	10,00	3,50	18,00	31,50	100%	1,413	1,413	5,0	yes

- 1. Output power including tune-up tolerance;
- 2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
- 3. MPE evaluate distance is 20cm from user manual provide by manufacturer;
- 4. Depending on output power and antenna gain only the worst case is reported;



4.6. Conclusion

The measurement results do comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

The measurement results do comply with the RSS-102, Issue 5.

4.7. Measurement uncertainties

The reported uncertainties are calculated based on the standard uncertainty multiplied with the appropriate coverage factor **k**, such that a confidence level of approximately 95% is achieved.

For uncertainty determination, each component used in the concrete measurement set-up was taken in account and it's contribution to the overall uncertainty according it's statistical distribution calculated.

Following table shows expectable uncertainties for each measurement type performed.

RF-Measurement	Reference	Frequency range	Calc	Calculated uncertainty based on a confidence level of 95%			Remarks		
Conducted emissions (U CISPR)	CISPR 16-2-1	9 kHz - 150 kHz 150 kHz - 30 MHz		4.0 dB 3.6 dB					-
Radiated emissions Enclosure	CISPR 16-2-3	30 MHz - 1 GHz 1 GHz - 18 GHz	4.2 dE 5.1 dE						E-Field
Disturbance power	CISPR 16-2-2	30 MHz - 300 MHz	-						-
Power Output radiated	-	30 MHz - 4 GHz	3.17 d	В					Substitution method
D O		Set-up No.	Cel- C1	Cel- C2	BT1	W1	W2		
Power Output conducted	-	9 kHz - 12.75 GHz	N/A	0.60					-
		12.75 - 26.5GHz	N/A	0.82					
Conducted emissions	-	9 kHz - 2.8 GHz	0.70	N/A					N/A - not
on RF-port		2.8 GHz - 12.75GHz	1.48	N/A					applicable
		12.75 GHz - 18GHz	1.81	N/A					
		18 GHz - 26.5GHz	1.83	N/A					
			0.1272	2 ppm (Delta N	Aarker)	1		Frequency
Occupied bandwidth	-	9 kHz - 4 GHz							error
			1.0 dE						Power
	-		0.1272	2 ppm (Delta N	Aarker)	1		Frequency
Emission bandwidth		9 kHz - 4 GHz				error			
	-		See above: 0.70 dB			Power			
Frequency stability	-	9 kHz - 20 GHz	0.0636 ppm				-		
Radiated emissions	-	150 kHz - 30 MHz 30 MHz - 1 GHz	5.0 dB 4.2 dB			Magnetic field			
Enclosure		1 GHz - 20 GHz	3.17 d	ıR					E-field Substitution

Table: measurement uncertainties, valid for conducted/radiated measurements



5. Abbreviations used in this report

The abbreviation	S
ANSI	American National Standards Institute
AV , AVG, CAV	Average detector
EIRP	Equivalent isotropically radiated power, determined within a separate measurement
EGPRS	Enhanced General Packet Radio Service
EUT	Equipment Under Test
FCC	Federal Communications Commission, USA
IC	Industry Canada
n.a.	not applicable
Op-Mode	Operating mode of the equipment
PK	Peak
RBW	resolution bandwidth
RF	Radio frequency
RSS	Radio Standards Specification, Dokuments from Industry Canada
Rx	Receiver
TCH	Traffic channel
Tx	Transmitter
QP	Quasi peak detector
VBW	Video bandwidth
ERP	Effective radiated power

6. Accreditation details of CETECOM's laboratories and test sites

Ref No.	Accreditation Certificate	Valid for laboratory area or test site	Accreditation Body
-	D-PL- 12047-01-01	All laboratories and test sites of CETECOM GmbH, Essen	DAkkS, Deutsche Akkreditierungsstelle GmbH
337 487 558 348 348	MRA US-EU 0003	Radiated Measurements 30 MHz to 1 GHz, 3 m / 10 m (OATS) Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements above 1 GHz, 3 m (FAR) Mains Ports Conducted Interference Measurements Telecommunication Ports Conducted Interference Measurem.	FCC, Federal Communications Commission Laboratory Division, USA
337 487 550 558	3462D-1 3462D-2 3462D-2 3462D-3	Radiated Measurements 30 MHz to 1 GHz, 3 m / 10 m (OATS) Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements 1 GHz to 6 GHz, 3 m (SAR) Radiated Measurements above 1 GHz, 3 m (FAR)	IC, Industry Canada Certification and Engineering Bureau
487 550 348 348	R-2666 G-301 C-2914 T-1967	Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements 1 GHz to 6 GHz, 3 m (SAR) Mains Ports Conducted Interference Measurements Telecommunication Ports Conducted Interference Measurem.	VCCI, Voluntary Control Council for Interference by Information Technology Equipment, Japan
OATS	S = Open Area Te	est Site, SAR = Semi Anechoic Room, FAR = Fully Anechoic Room	



7. Versions of test reports (change history)

Version	Applied changes	Date of release
	Initial release	2019-03-20
C1	Antenna gain changed	2019-04-06

End of report