Amber Helm Development L.C.

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AG2FSC4-WR2209TX

Issued: March 21, 2022

EMC Test Report

regarding

USA: CFR Title 47, Part 15.231 (Emissions)
Canada: ISED RSS-210v10/GENv5 (Emissions)

for



AG2FSC4

Category: TPMS Transmitter

Judgments:

15.231e/RSS-210v10 Compliant Transmitter

Testing Completed: March 4, 2022



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1 Test Report Scope and Limitations

1.1 Laboratory Authorization

Test Facility description and attenuation characteristics are on file with the FCC Laboratory, Columbia, Maryland (FCC Reg. No: US5348 and US5356) and with ISED Canada, Ottawa, ON (File Ref. No: 3161A and 24249). Amber Helm Development L.C. holds accreditation under NVLAP Lab Code 200129-0.

1.2 Report Retention

For equipment verified to comply with the regulations herein, the manufacturer is obliged to retain this report with the product records for the life of the product, and no less than ten years. A copy of this Report will remain on file with this laboratory until April 2032.

1.3 Subcontracted Testing

This report does not contain data produced under subcontract.

1.4 Test Data

This test report contains data included within the laboratory's scope of accreditation. Any data in this report that is not covered under the laboratory's scope is clearly identified.

1.5 Limitation of Results

The test results contained in this report relate only to the item(s) tested. Any electrical or mechanical modification made to the test item subsequent to the test date shall invalidate the data presented in this report. Any electrical or mechanical modification made to the test item subsequent to this test date shall require reevaluation.

1.6 Copyright

This report shall not be reproduced, except in full, without the written approval of Amber Helm Development L.C.

1.7 Endorsements

This report shall not be used to claim product endorsement by any accrediting, regulatory, or governmental agency.

1.8 Test Location

The EUT was fully tested by **Amber Helm Development L.C.**, headquartered at 92723 Michigan Hwy-152, Sister Lakes, Michigan 49047 USA. Table 1 lists all sites employed herein. Specific test sites utilized are also listed in the test results sections of this report where needed.

Table 1: Test Site List.

Description	Location	Quality Num.
OATS (3 meter)	3615 E Grand River Rd., Williamston, Michigan 48895	OATSC

1.9 Traceability and Equipment Used

Pertinent test equipment used for measurements at this facility is listed in Table 2. The quality system employed at Amber Helm Development L.C. has been established to ensure all equipment has a clearly identifiable classification, calibration expiry date, and that all calibrations are traceable to the SI through NIST, other recognized national laboratories, accepted fundamental or natural physical constants, ratio type of calibration, or by comparison to consensus standards.

Table 2: Equipment List.

Description	Manufacturer/Model	SN	Quality Num.	Cal/Ver By / Date Due
Spectrum Analyzer	R & S / FPC1500	101692	RSFPC15001	RS / Oct-2022
	'			,
Spectrum Analyzer	R & S / FSV30	101660	RSFSV30001	RS / Apr-2023
Biconical	EMCO / 93110B	9802-3039	BICEMCO01	Keysight / Aug-2023
Log Periodic Antenna	EMCO / 3146	9305-3614	LOGEMCO01	Keysight / Aug-2023
BNC-BNC Coax	WRTL / $RG58/U$	001	CAB001-BLACK	AHD / Sept-2022
3.5- 3.5 MM Coax	PhaseFlex / PhaseFlex	001	CAB015-PURP	AHD / Jul-2022
Quad Ridge Horn	Singer / A6100	C35200	HQR1TO18S01	Keysight / Aug-2022

2 Test Specifications and Procedures

2.1 Test Specification and General Procedures

The goal of Schrader Electronics is to demonstrate that the Equipment Under Test (EUT) complies with the Rules and/or Directives below. Detailed in this report are the results of testing the Schrader Electronics AG2FSC4 for compliance to:

Country/Region	Rules or Directive	Referenced Section(s)
United States	Code of Federal Regulations	CFR Title 47, Part 15.231
Canada	ISED Canada	ISED RSS-210v10/GENv5

It has been determined that the equipment under test is subject to the rules and directives above at the date of this testing. In conjunction with these rules and directives, the following specifications and procedures are followed herein to demonstrate compliance (in whole or in part) with these regulations.

ANSI C63.4:2014	"Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"
ANSI C63.10:2013	"American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"
TP0102RA	"AHD Internal Document TP0102 - Radiated Emissions Test Procedure"
ISED Canada	"The Measurement of Occupied Bandwidth"
ETSI EN 301-489-1v1.9.2	"Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for Electromagnetic Compatibility"
ETSI EN 301-489-1v2.1.1	"Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article $3.1(b)$ of Directive $2014/53/EU$ and the essential requirements of article 6 of Directive $2014/30/EU$ "
ETSI EN 301-489-3:v2.1.1	"Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz"
ETSI EN 301-489-17:v3.1.1	"Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article $3.1(b)$ of Directive $2014/53/EU$ "

3 Configuration and Identification of the Equipment Under Test

3.1 Description and Declarations

The equipment under test is a UHF transmitter for automotive tire pressure monitoring. The EUT is approximately $4 \times 4 \times 1.5$ cm in dimension, and is depicted in Figure 1. It is powered by 3 VDC Lithium cell battery. In use, this device is permanently installed in the tire of a motor vehicle. Table 3 outlines provider declared EUT specifications.



Figure 1: Photos of EUT.

Table 3: EUT Declarations.

General Declarations Equipment Type: TPMS Transmitter Country of Origin: Not Declared 3 VDC **Nominal Supply:** Oper. Temp Range: Not Declared Frequency Range: $433.92~\mathrm{MHz}$ **Antenna Dimension:** Not Declared Antenna Type: PCB Edge Plated Antenna Gain: Not Declared **Number of Channels:** Channel Spacing: Not Applicable Alignment Range: Not Declared Type of Modulation: ASK+FSK **United States**

FCC ID Number: MRXAG2FSC4 Classification: DSC

Canada

IC Number: 2456A-AG2FSC4
Classification: Remote Control Device

3.1.1 EUT Configuration

The EUT is configured for testing as depicted in Figure 2.

EUT

Schrader FCC ID: MRXAG2FSC4 IC: 2546A-AG2FSC4

Figure 2: EUT Test Configuration Diagram.

3.1.2 Modes of Operation

This device is capable of three key modes of operation. Upon manually activated LF interrogation (through the use of special LF tool at a vehicle dealership), the EUT responds with a transmission containing a number of frames used to configure the device with the vehicle (LEARN MODE). When the EUT is placed in the vehicle tire and the vehicle drives, it can, in the worst case, periodically transmit where the duration of each transmission is always less than 1 second and the silent period between transmissions is at least 30 times the duration of the transmission, and never less than 10 seconds (ROLL MODE). (See duty cycle table and operational description exhibit for details.) In the case of an emergency condition (delta Pressure), the EUT will transmit tire pressure and temperature information throughout the duration of the condition.

3.1.3 Variants

There is only a single variant of the EUT, as tested.

3.1.4 Test Samples

Three samples in total were provided; two normal operating samples and one CW sample. The normal operating samples were tested for LF activation response using a LF diagnostic tool provided by the manufacturer.

3.1.5 Functional Exerciser

Normal operating EUT functionality was verified by observation of transmitted signal.

3.1.6 Modifications Made

There were no modifications made to the EUT by this laboratory.

3.1.7 Production Intent

The EUT appears to be a production ready sample.

3.1.8 Declared Exemptions and Additional Product Notes

The EUT is permanently installed in a transportation vehicle. As such, digital emissions are exempt from US and Canadian digital emissions regulations (per FCC 15.103(a) and IC correspondence on ICES-003).

The EUT also employs some modes of operation that alert the vehicle user of sudden changes in tire pressure. Such alert modes fall under FCC 15.231(a)(4), and may operate during the pendency of the alarm condition. A detailed list of all operating modes is included in the Description of Operation exhibit included in this application.

4 Emissions

4.1 General Test Procedures

4.1.1 Radiated Test Setup and Procedures

Radiated electromagnetic emissions from the EUT are first pre-scanned in our screen room. Spectrum and modulation characteristics of all emissions are recorded. Instrumentation, including spectrum analyzers and other test equipment as detailed in Section 1.8 are employed. After pre-scan, emission measurements are made on the test site of record. If the EUT connects to auxiliary equipment and is table or floor standing, the configurations prescribed in relevant test standards are followed. Alternatively, a layout closest to normal use (as declared by the provider) is employed if the resulting emissions appear to be worst-case in such a configuration. See Figure 3. All intentionally radiating elements that are not fixed-mounted in use are placed on the test table lying flat, on their side, and on their end (3-axes) and the resulting worst case emissions are recorded. If the EUT is fixed-mounted in use, measurements are made with the device oriented in the manner consistent with installation and then emissions are recorded. If the EUT exhibits spurious emissions due to internal receiver circuitry, such emissions are measured with an appropriate carrier signal applied.

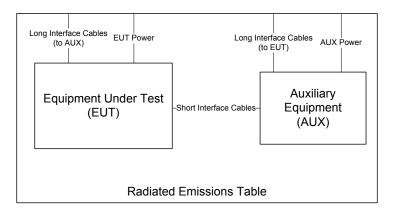


Figure 3: Radiated Emissions Diagram of the EUT.

For devices with intentional emissions below 30 MHz, a shielded loop antenna and/or E-field and H-Field broad-band probes are used depending on the regulations. Shielded loops are placed at a 1 meter receive height at the desired measurement distance. For exposure in this band, the broadband probes employed are 10cm diameter single-axis shielded transducers and measurements are repeated and summed over three axes.

Emissions between 30 MHz and 1 GHz are measured using calibrated broadband antennas. For both horizontal and vertical polarizations, the test antenna is raised and lowered from 1 to 4 m in height until a maximum emission level is detected. The EUT is then rotated through 360° in azimuth until the highest emission is detected. The test antenna is then raised and lowered one last time from 1 to 4 m and the worst case value is recorded. Emissions above 1 GHz are characterized using standard gain or broadband ridge-horn antennas on our OATS with a 4×5 m rectangle of ECCOSORB absorber covering the OATS ground screen and a 1.5m table height. Care is taken to ensure that test receiver resolution and video bandwidths meet the regulatory requirements, and that the emission bandwidth of the EUT is not reduced. Photographs of the test setup employed are depicted in Figure 4.

Where regulations allow for direct measurement of field strength, power values (dBm) measured on the test receiver / analyzer are converted to $dB\mu V/m$ at the regulatory distance, using

$$E_{dist} = 107 + P_R + K_A - K_G + K_E - C_F$$

where P_R is the power recorded on spectrum analyzer, in dBm, K_A is the test antenna factor in dB/m, K_G is the combined pre-amplifier gain and cable loss in dB, K_E is duty correction factor (when applicable) in dB, and C_F is a distance conversion (employed only if limits are specified at alternate distance) in dB. This field strength value is then compared with the regulatory limit. If effective isotropic radiated power (EIRP) is computed, it is computed as

$$EIRP(dBm) = E_{3m}(dB\mu V/m) - 95.2.$$

When presenting data at each frequency, the highest measured emission under all possible EUT orientations (3-axes) is reported.

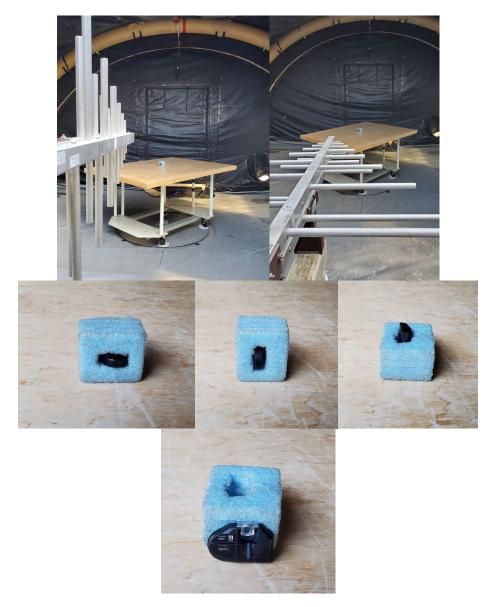


Figure 4: Radiated Emissions Test Setup Photograph(s).

4.1.2 Conducted Emissions Test Setup and Procedures

The EUT is not subject to measurement of power line conducted emissions as it is powered solely by its internal battery.

4.1.3 Power Supply Variation

Tests at extreme supply voltages are made if required by the procedures specified in the test standard, and results of this testing are detailed in this report.

In the case the EUT is designed for operation from a battery power source, the extreme test voltages are evaluated over the range specified in the test standard; no less than $\pm 10\%$ of the nominal battery voltage declared by the manufacturer. For all battery operated equipment, worst case intentional and spurious emissions are re-checked employing a new (fully charged) battery.

4.2 Intentional Emissions

4.2.1 Fundamental Emission Pulsed Operation

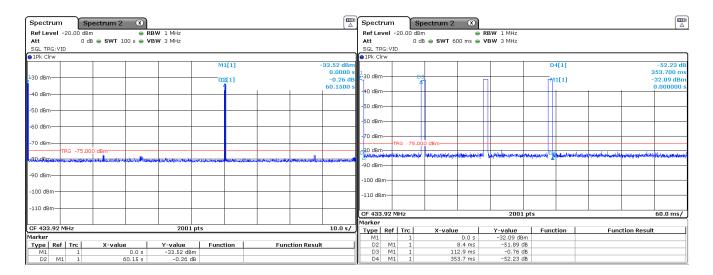
Test Setup & Procedure The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Duty cycle is reported for all relevant modes of operation. The test equipment employed includes RSFSV30001, LOGEMCO01.

Measurement Results The details and results of testing the EUT are summarized in Table 4. Plots showing the measurements made to obtain these values are provided in Figure 5.

Table 4: Fundamental Emission Pulsed Operation.

				Test Date:	2-Mar-22
Detector	Span	IF Bandwidth	Video Bandwidth	Test Engineer:	J. Nantz
Pk		1 MHz	3 MHz	EUT:	Schrader AG2FSC4
				EUT Mode:	Modulated
				Meas. Distance:	10 cm

										FCC/IC
			Ove	rall Trans	mission	Ι.	Internal	Frame Characteristics		
R0	Frequency		Min. Repetition	Max. No. of	Total Transmission	Max. Frame	Min. Frame		Compute	ed Duty Cycle
	(MHz)	EUT Test Mode*	Rate (sec)	Frames	Length (sec)	Length (ms)	Period (ms)	Frame Encoding	(%)	(dB)
R1	433.92	Roll Mode – PERIODIC TX (see Figure 5(a))	60.15s	4	0.354	8.400	>100 ms	In worst case Roll (periodic tx) mode the EUT transmits 4 FSK frames every 60 seconds. Therein, worst case transmission of one 8.4 ms FSK frame may occur in any given 100ms window.	8.4	-20.0
R2	433.92	LEARN Mode – MANUAL ACTIV. (see Figure 5(b))	Single	9 ASK + 4 FSK	0.940	8.330	In worst case LEARN (manual activat mode the EUT transmits 9 ASK + 4 FSF after activation. Therein, worst case tran of one 8.33 ms FSK frame may occur given 100ms window.		8.3	-20.0
#	C1	C2	C3	C4	C5	C6	C7	#	C8	C9
	(ROW)	(COLUMN)	NOTES:							
	R0	C8	Example Calc	ulation: W	Vorst Case Duty (%) = 8.4 ms / 10	00 ms) x $100 = 8.4^{\circ}$	% = -20.0 dB Field Strength Duty		



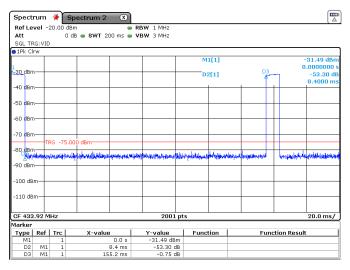


Figure 5(a): Fundamental Emission Pulsed Operation.

Type Ref Trc

M1 M1

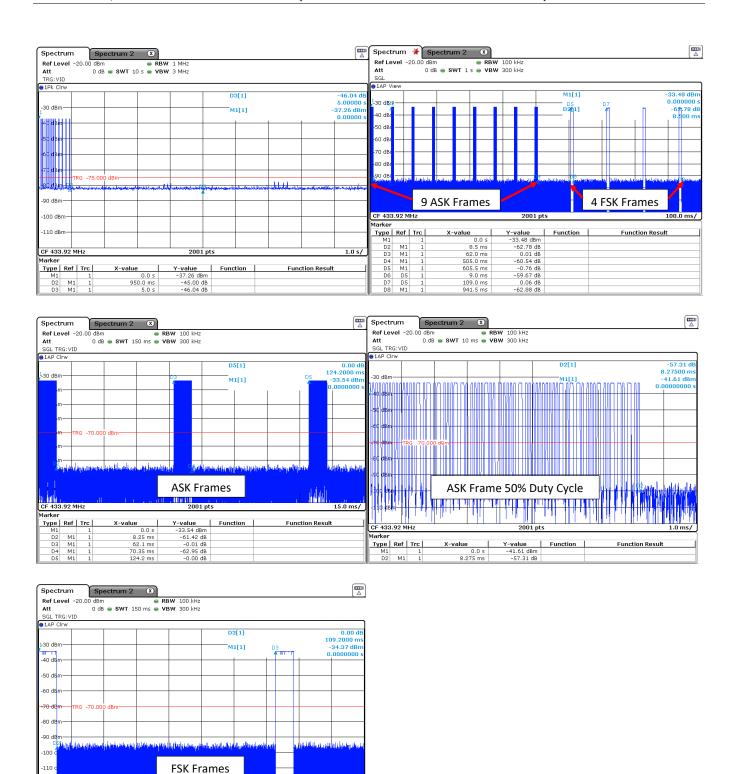


Figure 5(b): Fundamental Emission Pulsed Operation.

Function Result

Y-value -34.37 dBm -61.94 dB -0.00 dB

0.0 s 8.4 ms 109.2 ms Function

4.2.2 Fundamental Emission Bandwidth

Test Setup & Procedure The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Emission bandwidth (EBW) of the EUT is measured with the device placed in the test mode(s) with the shortest available frame length and minimum frame spacing. The 20 dB EBW is measured as the max-held peak-detected signal when the IF bandwidth is greater than or equal to 1% of the receiver span. For complex modulations other than ASK and FSK, the 99% emission bandwidth per IC test procedures has a different result, and is also reported. The test equipment employed includes RSFSV30001, LOGEMCO01.

Measurement Results The details and results of testing the EUT are summarized in Table 5. Plots showing the measurements made to obtain these values are provided in Figure 6.

Table 5: Fundamental Emission Bandwidth.

2-Mar-22	Test Date:			
J. Nantz	Test Engineer:	Video Bandwidth	IF Bandwidth	Detector
Schrader AG2FSC4	EUT:	30 kHz	10 kHz	Pk
Normal	EUT Mode:			
10 cm	Meas. Distance:			

						FCC/IC
R0		Center Frequency	20 dB EBW	99% OBW	EBW Limit	
KU	Modulation	(MHz)	(MHz)	(MHz)	(MHz)	Pass/Fail
R1	ASK+FSK	433.92	136.7	0.171414	1.0848	Pass
R2						
#	C1	C2	C3	C4	C5	C6

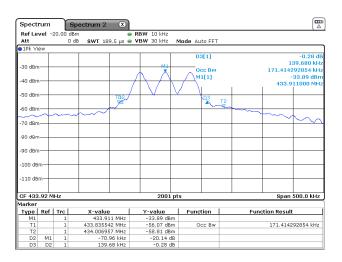


Figure 6: Fundamental Emission Bandwidth.

4.2.3 Fundamental Emission Field Strength

Test Setup & Procedure The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Fundamental emissions are measured at the regulatory distance on our OATS. The test equipment employed includes RSFSV30001, LOGEMCO01.

Measurement Results The details and results of testing the EUT are summarized in Table 6.

Table 6: Fundamental Emission Field Strength.

Frequency Range	Det	IF Bandwidth	Video Bandwidth	Test Date:	2-Mar-22
$25~\text{MHz} \leq f \leq 1~000~\text{MHz}$	Pk	1 MHz	3 MHz	Test Engineer:	J. Nantz
				EUT:	Schrader AG2FSC4
				EUT Mode:	CW
				Meas. Distance:	3 meters

													FCC/IC
R0	Freq.	Ant.	Ant.	Table Azim.	Ant Height	Ka	Kg	E3(Pk)	E3(Avg)	FCC/IC E3(Pk)	FCC/IC E3(Avg)	Pass	
	MHz	Used	Pol.	deg	m	dB/m	dB	dBμV/m	$dB\mu V/m \\$	Lim. dBμV/m	Lim. dBµV/m	dB	Comments
R1	433.9	LOGEMCO01	Н		1.0	16.3	-1.5	76.6	56.6	92.8	72.8	16.2	side
R2	433.9	LOGEMCO01	V		1.3	16.3	-1.5	80.0	60.0	92.8	72.8	12.8	Flat
R3													
R4													
R5													
#	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13
	(ROW)	(COLUMN)	NOTES	S:									

R0 C9 Avg data computed from Peak Measured Data and EUT Duty Cycle. EUT in CW mode.

4.3 Unintentional Emissions

4.3.1 Transmit Chain Spurious Emissions

The results for the measurement of transmit chain spurious emissions at the nominal voltage and temperature are provided in Table 7.

Table 7: Transmit Chain Spurious Emissions.

Frequency Range	Det	IF Bandwidth	Video Bandwidth	Test Date:	2-Mar-22
$25~MHz \leq f \leq 1~000~MHz$	Pk/QPk	120 kHz	300 kHz	Test Engineer:	J. Nantz
f > 1 000 MHz	Pk	1 MHz	3 MHz	EUT:	Schrader AG2FSC4
f > 1 000 MHz	Avg	1 MHz	10kHz	EUT Mode:	CW
				Meas. Distance:	3 meters

Transmitter Unintentional Spurious Emissions							FCC	C/IC						
RO	Freq.	Ant.	Ant.	Table Azim.	Ant Height	Ka	Kg	E3(Pk)	E3(Avg)	FCC/IC E3lim (Pk)	FCC/IC E3lim (Avg)	Pass		
KU	MHz	Used	Pol.	deg	m	dB/m	dB	dBμV/m	dBμV/m	$dB\mu V/m$	dBμV/m	dB	Comments	
R1	867.8	LOGEMCO01	Н	90.0	1.00	22.2	-2.8	47.1	27.1	72.8	52.8	25.7	Flat	
R2	867.8	LOGEMCO01	V		1.25	22.2	-6.9	49.2	29.2	72.8	52.8	23.6	End	
R3	1301.8	HQR1TO18S01	H/V	max all	1.50	32.4	-3.5	52.0	32.0	74.0	54.0	22.0	max all	
R4	1735.7	HQR1TO18S01	H/V	max all	1.50	30.4	-4.2	41.2	21.2	74.0	54.0	32.8	max all	
R5	2169.6	HQR1TO18S01	H/V	max all	1.50	29.8	-4.8	47.4	27.4	74.0	54.0	26.6	max all	
R6	2603.5	HQR1TO18S01	H/V	max all	1.50	30.1	-5.3	58.2	38.2	74.0	54.0	15.8	max all	
R7	3037.4	HQR1TO18S01	H/V	max all	1.50	30.7	-5.7	55.0	35.0	74.0	54.0	19.0	max all	
R8	3471.4	HQR1TO18S01	H/V	max all	1.50	31.3	-6.1	48.4	28.4	74.0	54.0	25.6	max all	
R9	3905.3	HQR1TO18S01	H/V	max all	1.50	31.8	-6.4	42.3	22.3	74.0	54.0	31.7	max all	
R10	4339.2	HQR1TO18S01	H/V	max all	1.50	32.1	-6.7	43.6	23.6	74.0	54.0	30.4	max all	
R11														
#	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	

⁽ROW) (COLUMN) NOTES:

R0 C9 Avg data computed from Peak Measured Data and EUT Duty Cycle. EUT in CW mode.

5 Measurement Uncertainty and Accreditation Documents

The maximum values of measurement uncertainty for the laboratory test equipment and facilities associated with each test are given in the table below. This uncertainty is computed for a 95.45% confidence level based on a coverage factor of k=2.

Table 8: Measurement Uncertainty.

Measured Parameter	${\bf Measurement~Uncertainty^{\dagger}}$
Radio Frequency	$\pm (f_{Mkr}/10^7 + RBW/10 + (SPN/(PTS - 1))/2 + 1 \text{ Hz})$
Conducted Emm. Amplitude	$\pm 1.9\mathrm{dB}$
Radiated Emm. Amplitude $(f < 30 \mathrm{MHz})$	$\pm 3.1\mathrm{dB}$
Radiated Emm. Amplitude $(30 - 200 \mathrm{MHz})$	$\pm 4.0\mathrm{dB}$
Radiated Emm. Amplitude $(200 - 1000 \mathrm{MHz})$	$\pm 5.2\mathrm{dB}$
Radiated Emm. Amplitude $(f > 1000 \mathrm{MHz})$	$\pm 3.7\mathrm{dB}$

†Ref: CISPR 16-4-2:2011+A1:2014







Figure 7: Accreditation Documents