Amber Helm Development L.C.

92723 Michigan Hwy-152 Sister Lakes, Michigan 49047 USA

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ALP047-WR2215TX

Issued: June 17, 2022

EMC Test Report

regarding

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

for



047

Category: Keyless Entry Transmitter

Judgments:

Compliant 15.231/RSS-210v10 Transmitter

Testing Completed: June 16, 2022



Prepared for:

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Revision History

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1	r0		June 17, 2022	Initial Release.	J. Brunett
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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 July 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	${\bf Manufacturer/Model}$	$\mathbf{S}\mathbf{N}$	Quality Num.	Cal/Ver By / Date Due
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
3.5-3.5MM Coax	PhaseFlex / PhaseFlex	001	CAB015-PURP	AHD / $\mathrm{Jul}\text{-}2022$
Spectrum Analyzer	R & S / FSV30	101660	RSFSV30001	RS / Apr-2023
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 Alps Alpine North America, Inc. 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 Alps Alpine North America, Inc. 047 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"
ICES-003; Issue 7 (2020)	"Information Technology Equipment (ITE) - Limits and methods of measurement" $$

3 Configuration and Identification of the Equipment Under Test

3.1 Description and Declarations

The equipment under test is a remote entry UHF transmitter. The EUT is approximately 5 x 4 x 1 cm in dimension, and is depicted in Figure 1. It is powered by 3 VDC Lithium coin cell battery. In use, this device is a hand held UHF transmitter. Table 3 outlines provider declared EUT specifications.

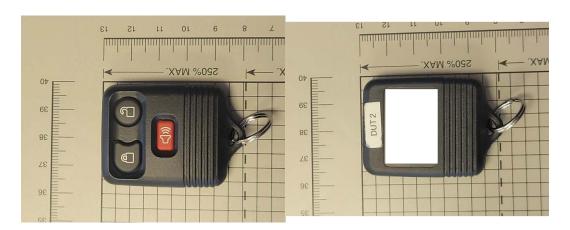


Figure 1: Photos of EUT.

Table 3: EUT Declarations.

General Declarations

Equipment Type: Keyless Entry Transmitter

Country of Origin: Not Declared Nominal Supply: 3 VDC Oper. Temp Range: Not Declared

Frequency Range: 433.589 MHz and 434.251 MHz

Antenna Dimension:
Antenna Type:
Antenna Gain:

Not Declared
PCB Trace
Not Declared

Number of Channels: 1 Channel Spacing: N/A

Alignment Range: Not Declared

Type of Modulation: FSK

United States

FCC ID Number: 2ACH3WB1G0608

Classification: DSC

Canada

IC Number: 1788A-FWB1G0608 Classification: Remote Control Device

3.1.1 EUT Configuration

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

EUT ALPS FCC ID: 2ACH3WB1G0608 IC: 1788A-FWB1G0608

Figure 2: EUT Test Configuration Diagram.

3.1.2 Modes of Operation

This EUT is capable of transmitting only in a manual activated mode (normal button press).

3.1.3 Variants

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

3.1.4 Test Samples

One sample of the EUT was provided, including custom software to enable both normal operating as well as continous modulation (CM) transmission.

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

No emissions other than fundamental and harmonic spurious were observed within 20 dB of the regulatory limits.

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.

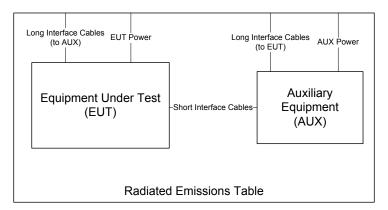


Figure 3: Radiated Emissions Diagram of the EUT.

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 regulation. Shielded loops are placed at a 1 meter receive height at the desired measurement distance. For exposure in this band, 10cm diameter single-axis broadband probes meeting the requirements of ISED SPR-002 section 5.2 are employed. Measurements are repeated and summed over three axes, and the entire frequency range is measured with and without the EUT transmitting.

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.

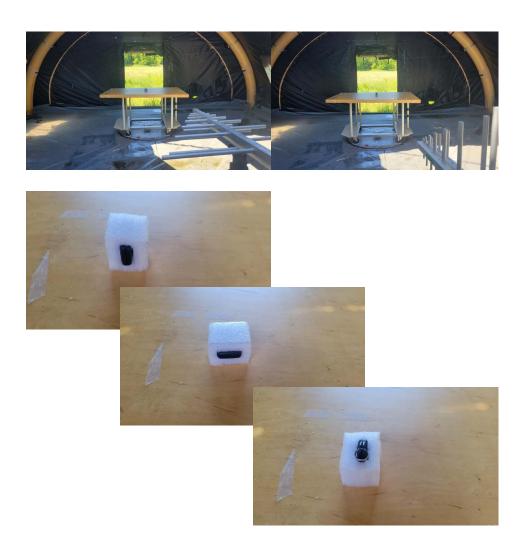


Figure 4: Radiated Emissions Test Setup Photograph(s).

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.

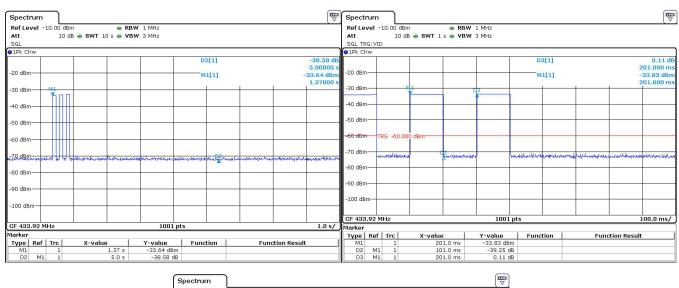
Measurement Results The details and results of testing the EUT are summarized in Table 4. Plots showing the measurements made to obtain these values are provided in Figure 5.

Table 4: Fundamental Emission Pulsed Operation.

				Test Date:	16-Jun-22
Detector	Span	IF Bandwidth	Video Bandwidth	Test Engineer:	J. Brunett
Pk	0	1 MHz	3 MHz	EUT:	Alps DUT2
				EUT Mode:	Normal Operating
				Meas. Distance:	10 cm

										FCC/IC		
			Ove	rall Transmis	ssion		Inte					
R0	Test Freq.		Min. Repetition	Max. No. of	Total Transmission	Max. Frame	Min. Frame		Compu	ted Duty Cycle		
	(MHz)	EUT Test Mode*	Rate (sec)	Frames	Length (sec)	Length (ms)	Period (ms)	Frame Encoding	(%)	(dB)		
R1	433.92	Manual Activated, FSK	single	3	0.505	100.50	201.0	In the worse case, the EUT transmits 100ms FSK data frames. Thus, no duty cycle is applicable.	100.5	0.0		
R2												
#	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10		

Example Calculation: 100 ms / 100 ms = 100 % on-time.



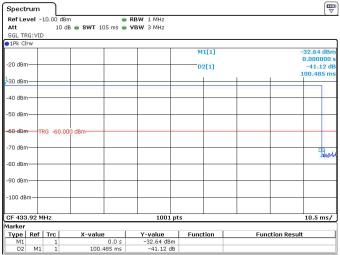


Figure 5: Fundamental Emission Pulsed Operation.

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.

			Test Date:	16-Jun-22
Detector	IF Bandwidth	Video Bandwidth	Test Engineer:	J. Brunett
Pk	10 kHz	100 kHz	EUT:	Alps DUT2
			EUT Mode:	Normal Operating
			Meas, Distance:	10 cm

						FCC/IC
R0		Center Frequency	20 dB EBW	EBW Limit	99% OBW	Pass/Fail
RU	Mode	(MHz)	(MHz)	(MHz)	(MHz)	
R1	Norm	433.92	0.067	1.085	0.112	Pass
R2						
R3						
#	C1	C2	C3	C4	C5	C6

(ROW) (COLUMN) NOTE:

R0 C0

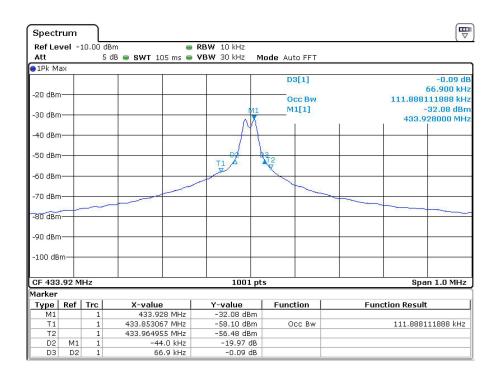


Figure 6: Fundamental Emission Bandwidth.

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.

	Tes	t Date(s):			a3										a7														
	Test Engineer: J. Brunctt a4							a8																					
	Freq	uency			Sit	e				EUT			Test A	ntenna		Cable		Rec	eiver		Field Strength @ DR					EIRP		Details	
	Start	Stop	Temp.	Table	MR	DR	N/F	CF				Pol.	Ant.	Dim.	Ka	Kg	Rx P	ower	Band	width		Pk		Qr	ok / Av	/g	Pk		
R0			(C)	Angle					Mode	Volt.	Dim		Height				Pk	Avg	RBW	VBW	Meas.	Lin	nit	Calc.	Li	mit	Calc.		Pass
			Hum.						see													USA	CAN		USA	CAN			Fail
	MHz	MHz	%	deg		m		dB	table	(V)	cm	H/V	m	cm	dB/m	dB	dI	3m	M	Hz			dBuV/	m			dE	Bm	dB
R1	SE	TUP			OAT	SC			AI	LPS DU	JT2		EMCO	LOG01		CAB001		RSFS	V30001		NOTES: H-POL - FLAT, V-POL END Wo				D Wor	st Case	Orient		
R2	433.9	433.9	36 / 40	180.0	3.0	3.0		0.0	al	3.3	7.5	Н	1.0	100.0	16.3	-0.1			0.12	0.30	74.0	100.8	100.8	74.0	80.8	80.8	-21.1		6.8
R3	433.9	433.9	36 / 40	0.0	3.0	3.0		0.0	al	3.3	7.5	V	1.3	100.0	16.3	-0.1			0.12	0.30	75.5	100.8	100.8	75.5	80.8	80.8	-19.6		5.3
R4																													
R5																													
R6																													

C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26

(ROW)	(COLUMN)	NOTE:
R0	C5	MR is Measurement Range, which is reduced from DR to achieve necessary SNR.
R0	C6	DR is the regulatory Desired Range measurement distance.
R0	C7	N/F is Near-Field / Far-Field distance computed for max of EUT Antenna Dimension (C10) computed above 1 GHz.
R0	C8	CF is computed using a 20 dB/decade Decay Rate.
R0	C17/18	When E-field or EIRP is reported directly from Spectrum Analyzer, Antenna Factors and Cable losses are included directly in SA settings and Pr is not reported.

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.

	EUT Modes:	a1	CM - 3-BTN	a5
		a2		a6
Test Date(s):	06/16/22	a3		a7
Test Engineer:	J. Brunett	a4		a8

	Freq	uency			Site	2				EUT		Test Antenna			Cable	Receiver			Field Strength @ DR						EII	RP	Details		
	Start	Stop	Temp.	Table	MR	DR	N/F	CF				Pol.	Ant.	Dim.	Ka	Kg	Rx P	ower	Band	width		Pk		Qp	ok / A	vg			
R0			(C)	Angle					Mode	Volt.	Dim		Height				Pk	Avg	RBW	VBW	Meas.	Lir	nit	Calc.	Li	mit	Calc.		Pass
			Hum.						see													USA	CAN		USA	CAN			Fail
	MHz	MHz	%	deg		m		dB	table	(V)	cm	H/V	m	cm	dB/m	dB	dE	3m	M	Hz			dBu	V/m			dE	lm	dB
R1	SE?	ΓUP			OATS	SC			ALPS DUT2 EMCOLOG01					CAB001	RSFSV30001				NOTES: H-POL - FLAT, V-POL ENI						D Worst Case Orient				
R2	867.8	867.8	36 / 40	220.0	3.0	3.0		0.0	a1	3.0	8.0	Н	1.0	100.0	15.3	-0.2			0.12	0.30	39.7	80.8	80.8	39.7	60.8	60.8	-55.5		21.1
R3	867.8	867.8	36 / 40	0.0	3.0	3.0		0.0	a1	3.0	8.0	V	1.0	100.0	15.3	-0.2			0.12	0.30	36.8	80.8	80.8	36.8	60.8	60.8	-58.4		24.0
R4	SE?	ΓUP			OATS	SC			ALPS DUT2 HRNSINGQR CAB015 RSFSV30001 NOTES: max all orientations of EUT																				
R5	1301.8	1301.8	36 / 40	all	3.0	3.0	0.2	0.0	a1	3.0	8.0	H/V	all	15.0	22.0	-2.9			1.00	3.00	51.2	74.0	74.0	51.2	54.0	54.0	-44.0		2.8
R6	1735.3		36 / 40	all	3.0	3.0	0.3	0.0	a1	3.0	8.0	H/V	all	15.0	26.7	-3.4			1.00	3.00							-50.5		16.1
R7	2168.9	2170.3	36 / 40	all	3.0	3.0	0.3	0.0	a1	3.0	8.0	H/V	all	15.0	29.6	-3.9			1.00	3.00	52.6	80.8	80.8	52.6	60.8	60.8	-42.6		8.2
R8	2602.5	2604.5	36 / 40	all	3.0	3.0	0.4	0.0	a1	3.0	8.0	H/V	all	15.0	31.1	-4.4			1.00	3.00	50.9	80.8	80.8	50.9	60.8	60.8	-44.3		9.9
R9	3036.1	3038.8	36 / 40	all	3.0	3.0	0.5	0.0	a1	3.0	8.0	H/V	all	15.0	31.8	-4.9			1.00	3.00	50.4	80.8	80.8	50.4	60.8	60.8	-44.8		10.4
R10	3469.7	3473.0	36 / 40	all	3.0	3.0	0.5	0.0	a1	3.0	8.0	H/V	all	15.0	31.9	-5.4			1.00	3.00	51.3	80.8	80.8	51.3	60.8	60.8	-43.9		9.5
R11	3903.3	3907.3	36 / 40	all	3.0	3.0	0.6	0.0	a1	3.0	8.0	H/V	all	15.0	32.0	-5.9			1.00	3.00	44.6	74.0	74.0	44.6	54.0	54.0	-50.6		9.4
R12	4336.9	4341.5	36 / 40	all	3.0	3.0	0.7	0.0	a1	4.0	8.0	H/V	all	15.0	32.3	-6.3			1.00	3.00	49.3	74.0	74.0	49.3	54.0	54.0	-45.9		4.7
R13																													
#	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29

R0	CS	MR is Measurement Range, which is reduced from DR to achieve necessary SNR.
R0	C6	DR is the regulatory Desired Range measurement distance.
R0	C7	N/F is Near-Field / Far-Field distance computed for max of EUT Antenna Dimension (C10) computed above 1 GHz.
R0	C8	CF is computed using a 20 dB/decade Decay Rate.
R0	C17/18	When E-field or EIRP is reported directly from Spectrum Analyzer, Antenna Factors and Cable losses are included directly in SA settings and Pr is not reported.
R3/R16	C21	Measured signal was background noise.

4.3.2 Radiated Digital Spurious

The results for the measurement of digital spurious emissions are not reported herein as all digital emissions were greater than 20 dB below the regulatory limit. Radiation from digital components was measured to 1 GHz, or to five times the maximum digital component operating frequency, whichever is greater.

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