

RF EXPOSURE TEST REPORT



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Laboratory Accreditations (per ISO/IEC 17025:2017)



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Manufacturer: Cooper Industries (Electrical) Inc.
Address: 74 – 1833 Coast Meridian Rd.
Port Coquitlam BC V3E 6G5, Canada.

Equipment Tested: Wireless Remote
Model Number(s): XPD900
FCC ID: IA9XPD900A
ISED ID: IC:1338B-XPD900A





REVISION HISTORY

Date	Title	Details	Author's Initials
June 28, 2021	E10788-2103_Cooper Electrical_XPD900_RF_Rev 1.0	Final	RS
April 22, 2021	E10788-2103_Cooper Electrical_XPD900_RF_Rev 0.0	Draft	RS
All previous versions of this report have been superseded by the latest dated revision as listed in the above table. Please dispose of all previous electronic and paper printed revisions accordingly.			

REPORT AUTHORIZATION

The data documented in this report is for the test equipment provided by the manufacturer. The tests were conducted on the sample equipment as requested by the manufacturer for the purpose of demonstrating compliance with the standards outlined in Section I of this report as agreed upon by the Manufacturer under the quote 21SH01291.

The Manufacturer is responsible for the tested product configurations, continued product compliance, and for the appropriate auditing of subsequent products as required.

This RF Exposure report may comprise a partial list of tests that are required for FCC and ISED Declaration of Conformity can only be produced by the manufacturer. This is to certify that the following report is true and correct to the best of our knowledge.

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QAI EMC ACCREDITATION

QAI EMC is your one-stop regulatory compliance partner for electromagnetic compatibility (EMC) and electromagnetic interference (EMI). Products are tested to the latest and applicable EMC/EMI requirements for domestic and international markets. QAI EMC goes above and beyond being a testing facility—we are your regulatory compliance partner. QAI EMC has the capability to perform RF Emissions and Immunity for all types of electronics manufacturing including Industrial, Scientific, Medical, Information Technology, Telecom, Wireless, Automotive, Marine and Avionics.

EMC Laboratory Location	FCC Designation (3m SAC)	IC Registration (3m SAC)	A2LA Certificate
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Section I: EXECUTIVE SUMMARY OF STANDARDS AND LIMITS

1.1 Applicable Standards and Results

No.	Test	Applicable Standard	Result
1	RF Exposure Evaluation	FCC 47 CFR §2.1093 (e) & 1.1310 (d) KDB 447498 D01 v06 (4.2.3 & 4.3) RSS-102 (2.5.1)	Complies

A) FCC - KDB 447498

- 4.2.3.** Extremity exposure conditions: Devices that are designed or intended for use on extremities, or mainly operated in extremity only exposure conditions, i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation.²⁶ When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Test Exclusion Thresholds in 4.3 should be applied to determine SAR test requirements.
- 4.3.** General SAR test exclusion guidance: (a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,³⁰ where $f(\text{GHz})$ is the RF channel transmit frequency in GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.



B) ISED - RSS-102 Section:

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device’s radiating element is less than or equal to 20 cm, **except** when the device operates as follows:
 from 3 kHz up to 1 GHz inclusively, and with output power (i.e., the higher of the conducted or equivalent isotropic ally radiated power (e.i.r.p.) source-based, time-averaged output power) that is less than or equal values listed in the table below.

Table 1: SAR evaluation – Exception limits for routine evaluation based on frequency and separation distance 4, 5

Exception Limits (mW)					
Frequency (MHz)	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	71	101	132	162	193
450	52	70	88	106	123
835	17	30	42	55	67
1900	7	10	18	34	60
2450	4	7	15	30	52
3500	2	6	16	32	55
5800	1	6	15	27	41
Exception Limits (mW)					
Frequency (MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
300	223	254	284	315	345
450	141	159	177	195	213
835	80	92	105	117	130
1900	99	153	225	316	431
2450	83	123	173	235	309
3500	86	124	170	225	290
5800	56	71	85	97	106

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power. For controlled use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in [Table 1](#) are multiplied by a factor of 5. For limb-worn devices where the 10gram value applies, the exemption limits for routine evaluation in [Table 1](#) are multiplied by a factor of 2.5. If the operating frequency of the device is between two frequencies located in [Table 1](#), linear interpolation shall be applied for the applicable separation distance. For test separation distance less than 5 mm, the exemption limits for a separation distance of 5 mm can be applied to determine if a routine evaluation is required.

For medical implants devices, the exemption limit for routine evaluation is set at 1 mW. The output power of a medical implants’ device is defined as the higher of the conducted or e.i.r.p to determine whether the device is exempt from the SAR evaluation.



Table 4: RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	-	$0.73/f$	-	6**
1.1-10	$87/f^{0.5}$	-	-	6**
10-20	27.46	0.0728	2	6
20-48	$58.07/f^{0.25}$	$0.1540/f^{0.25}$	$8.944/f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000/f^{1.2}$

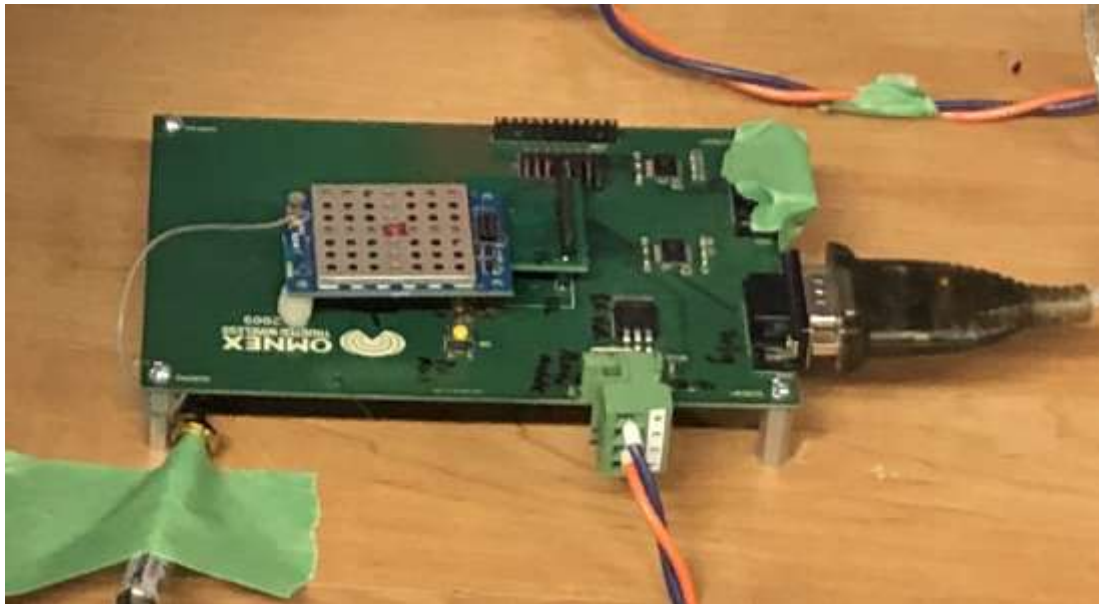
Note: f is frequency in MHz.

* Based on nerve stimulation (NS).

** Based on specific absorption rate (SAR).

1.2 Product Description

The information provided in this section is for the Equipment Under Test (EUT) and the corresponding Auxiliary Equipment needed to perform the tests as a complete system.



Product Under Test

Equipment Under Test (EUT)

Equipment	Description	Manufacturer	Model No.	Serial No.
Radio Module	900 MHz Spread Spectrum Data Transceiver Module	Cooper Industries (Electrical) Inc.	XPD900	1E347842
Clock frequencies tuned upon within the EUT: 1.625MHz, 13MHz, 659 to 684 MHz ,243 MHz 10 kHz, 902.2-927.7MHz				
Highest frequency generated within the EUT: 927.7 MHz				

Equipment Under Test (EUT) - RF Information

RF device type	Transceiver
Model No. (HVIN)	XPD900
Operating frequency	902.2MHz – 927.7MHz
Number of available channels/Transmitter	256 (1/4 used at a time)
Channel separation	400 kHz
Channel bandwidth	25 kHz
Output Power/Transmitter	21 dBm (conducted) – adjustable
Modulation type	2-level FSK
Test Channels (L, M, H)	902.2, 914.9, 927.7MHz
Data Rate ²	10.4167 kbps
Adaptive	No
Geo-location-capable	No
Number of antennas	4
Antenna 1 Type	5/8λ over 1/4 λ monopole whip (5.4 dBi)
Antenna 2 Type	1/4 λ monopole dome (2.5 dBi)
Antenna 3 type	1/4 λ monopole smt antenna (0.3 dBi)
Antenna 4 type	1/4 λ monopole wire antenna (2.54 dBi)



Equipment Under Test (EUT) - General Information

Tested as	Table-top
Dimensions	13.5 x 7.1 x 3.3 (cm)
Declared operating temperature range:	-40 to +80C
Input power	Linear Power Supply
Grounded	No
Device use	Portable (within 20 cm of human body)

Note: EUT has no I/O cables.

EUT Input Power

Type	Count	Description	Output	Manufacturer	Model #
DC	N/A	Power Supply	6.5Vdc	Korad	KD3005D

Auxiliary Equipment Information

Equipment	Count	Specification	Manufacturer	Model No.	Serial No.
Development Board	1	Supplies DC power to the module and a PC connection for radio module configuration	Cooper	N/A	N/A
Cable	1	I-PEX MHF to SMA jack cable, to connect module to antenna type 1 and type 2	Wellshow	W0291	N/A
Cable	1	U.FL to U.FL coax cable to connect module to antenna 3	Zargo	W0272	N/A
Antenna	1	Antenna type 1, whip antenna Larsen NMO3E900B with NMOHF MID mount, TMBR34 bracket. LMR195 coaxial cable 6' long with SMA connector.	---	---	---
Antenna	1	Antenna type 2, dome antenna, Larsen SLPT698/2170NMOHF with NMOHF MID mount, TMBR34 bracket. LMR195 coaxial cable 6' long with SMA connector.	---	---	---
Antenna	1	Antenna type 3, Linx ANT-916-uSP SMT antenna on TD1141 (Rev. 2) host product.	---	---	---
Antenna	1	Antenna type 3, Linx ANT-916-uSP SMT antenna on TD3100 (Rev. 4 display PCB) host product.	---	---	---
Antenna	1	Antenna type 3, Linx ANT-916-uSP SMT antenna on TD2100 (Rev. 3 switch PCB) host product.	---	---	---
Antenna	1	Antenna type 4, internal wire antenna on R260 Rev. 7 and Rev. 13 host product.	---	---	---
Antenna	1	Antenna type 4, internal wire antenna on R270 Rev.3 host product.	---	---	---



1.3 Environmental Conditions

The equipment under test was operated and tested under the following environmental conditions:

Parameter	Conditions
Location	Indoors
Temperature	24 °C
Relative Humidity	25.2%
Atmospheric Pressure	100kPa

1.4 Measurement Uncertainty

Parameter	Uncertainty
Radiated Emissions, 10kHz.-1GHz.	± 2.40 dB
Radiated Emissions, 1GHz.-40GHz.	± 2.48 dB
Conducted Emissions, 10kHz. to 40GHz.	± 2.82 dB
Radio Frequency	±1.5 x 10 ⁻⁵ MHz
Total RF Power Conducted	±1.36 dB
Spurious Emissions, Conducted	±1.36 dB
RF Power Density, Conducted	±1.36 dB
Temperature	±1°C
Humidity	±5 %
DC and low frequency voltages	±3 %



Section II: DATA & TEST RESULTS

2.1 FCC RF Exposure Evaluation – KDB 447498

Date Performed: March 5, 2021

Test Standard: FCC 47 CFR §2.1093 (e) & 1.1310 (d)
KDB 447498 D01 v06 (4.2.3 & 4.3)
RSS-102 (2.5.1)

Test Method: ANSI C63.4-2014

Modifications: No modification was required to comply for this test.

Result: EUT complies with the applicable standard.

Data Collected (EIRP Calculations (worse case):

Antenna	Carrier Frequency MHz	RF Peak Output Power Conducted dBm	Peak Antenna Gain dBi	EIRP		Duty Cycle 53 %	EIRP (AVG) mW	EIRP (AVG) dBm
				dBm	mW			
Antenna 1	902.2	21	5.4	26.40	436.52	0.53	231.36	23.65
Antenna 2	902.2	21	3.52	24.52	283.14	0.53	150.06	21.76
Antenna 3	902.2	21	0.30	21.3	134.89	0.53	71.49	18.54
Antenna 4	902.2	21	2.54	23.54	225.94	0.53	119.75	20.78

FCC - KDB 447498

Frequency (MHz)	Min. Separation (mm)	Limit 1-g SAR	Limit 10-g SAR	Result
902.2	See Below	3.0	7.5	Exempt
914.9	See Below	3.0	7.5	Exempt
927.7	See Below	3.0	7.5	Exempt

Note: Antenna 1 exempt from 1-g SAR testing at 62.21 mm and exempt for 10-g SAR at 29.30 mm.
Antenna 2 exempt from 1-g SAR testing at 47.51 mm and exempt for 10-g SAR at 19.00 mm.
Antenna 3 exempt from 1-g SAR testing at 22.63 mm and exempt for 10-g SAR at 9.05 mm.
Antenna 4 exempt from 1-g SAR testing at 37.91 mm and exempt for 10-g SAR at 15.16 mm.



For Antenna 1

(1) Maximum separation for 3.0 1-g limit. = (231.36 mW).($\sqrt{0.902(\text{GHz})}$)/3 (Body)
 Maximum Separation = 73.24mm

Since this distance is greater than 50 mm this formula is not valid. The evaluation in FCC KDB 447498 D01 v06 section 4.3.1 (b) needs to be used.

1-g limit (body) powered allowed at numeric threshold at 50 mm and 902 MHz = 157.94 mW

As per the equation in FCC KDB 447498 D01 v06 section 4.3.1 (b):

$231.36\text{mW} = 157.94\text{mW} + ((d-50\text{mm})(0.902\text{MHz}/150))$
 Maximum Separation = 62.21 mm

(2) Maximum separation for 7.5 10-g limit = (231.36 mW).($\sqrt{0.902(\text{GHz})}$)/7.5 (Hand Held)
 Maximum Separation = 29.30mm

For Antenna 2

(1) Maximum separation for 3.0 1-g limit. = (150.06 mW).($\sqrt{0.902(\text{GHz})}$)/3
 Maximum Separation = 47.51mm

(2) Maximum separation for 7.5 10-g limit. = (150.06 mW).($\sqrt{0.902(\text{GHz})}$)/7.5
 Maximum Separation = 19.00mm

For Antenna 3

(1) Maximum separation for 3.0 1-g limit. = (71.49 mW).($\sqrt{0.902(\text{GHz})}$)/3
 Maximum Separation = 22.63mm

(2) Maximum separation for 7.5 10-g limit. = (71.49 mW).($\sqrt{0.902(\text{GHz})}$)/7.5
 Maximum Separation = 9.05mm

For Antenna 4

(1) Maximum separation for 3.0 1-g limit. = (119.75 mW).($\sqrt{0.902(\text{GHz})}$)/3
 Maximum Separation = 37.91mm

(2) Maximum separation for 7.5 10-g limit. = (119.75 mW).($\sqrt{0.902(\text{GHz})}$)/7.5
 Maximum Separation = 15.16mm



2.2 ISED - RSS-102 Section:

Data Collected (EIRP Calculations (worse case):

Antenna	Carrier Frequency MHz	RF Peak Output Power Conducted dBm	Peak Antenna Gain dBi	EIRP		Duty Cycle 53 %	EIRP (AVG) mW	EIRP (AVG) dBm
				dBm	mW			
Antenna 1	902.2	21	5.4	26.40	436.52	0.53	231.36	23.65
Antenna 2	902.2	21	3.52	24.52	283.14	0.53	150.06	21.76
Antenna 3	902.2	21	0.30	21.3	134.89	0.53	71.49	18.54
Antenna 4	902.2	21	2.54	23.54	225.94	0.53	119.75	20.78

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is less than or equal to 20 cm, **except** when the device operates as follows: from 3 kHz up to 1 GHz inclusively, and with output power (i.e., the higher of the conducted or equivalent isotropic ally radiated power (e.i.r.p.) source-based, time-averaged output power) that is less than or equal values listed in the table below.

Table 1: SAR evaluation – Exception limits for routine evaluation based on frequency and separation distance

Exception Limits (mW)					
Frequency (MHz)	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	71	101	132	162	193
450	52	70	88	106	123
835	17	30	42	55	67
900	16.4mW x2.5* = 41	28.8mW x2.5* = 72	40.5mW x2.5* = 101	53.7mW x2.5 = 134	66.6mWx2.5* = 166
1900	7	10	18	34	60
2450	4	7	15	30	52
3500	2	6	16	32	55
5800	1	6	15	27	41
Exception Limits (mW)					
Frequency (MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
300	223	254	284	315	345
450	141	159	177	195	213
835	80	92	105	117	130
900	81.2mW x2.5* = 203	95.7mW x2.5* = 239	112.3mW x2.5* = 280	129.1mW x2.5* = 323	148mW x2.5* = 307
1900	99	153	225	316	431
2450	83	123	173	235	309
3500	86	124	170	225	290
5800	56	71	85	97	106

* The multiplier factor of 2.5 is used for the 10-g limit for limb worn devices.

The values in the table above for the 1-g limit are multiplied by a factor of 5 for controlled use devices.



Frequency (MHz)	At separation distance of 25 mm	At separation distance of 26.68 mm	At separation distance of 30 mm
300	193		223
450	123		141
835	67		80
900	66.60	71.5mW	81.2
1900	60		99
2450	52		83
3500	55		86
5800	41		56

Table 4: RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	-	0.73/ <i>f</i>	-	6**
1.1-10	87/ <i>f</i> ^{0.5}	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ <i>f</i> ^{0.25}	0.1540/ <i>f</i> ^{0.25}	8.944/ <i>f</i> ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 <i>f</i> ^{0.3417}	0.008335 <i>f</i> ^{0.3417}	0.02619 <i>f</i> ^{0.6834}	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ <i>f</i> ^{1.2}
150000-300000	0.158 <i>f</i> ^{0.5}	4.21 x 10 ⁻⁴ <i>f</i> ^{0.5}	6.67 x 10 ⁻⁵ <i>f</i>	616000/ <i>f</i> ^{1.2}

Note: *f* is frequency in MHz.

* Based on nerve stimulation (NS).

** Based on specific absorption rate (SAR).



Antenna 1 – 231.36mW Ave. EIRP:

This antenna meets the clause **2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation** criteria in RSS-102 Clause 2.5.1, Table 1 for the 10-g limit (limb worn) devices with a separation distance of 35 mm or greater.

This device meets the clause **2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation** criteria in RSS-102 Clause 2.5.1, using Table 4 for the 1-g limit (body) devices with a separation distance of 8.2 cm as shown in the calculation below:

*Calculated Power Density Limit = 2.736 W/m² (0.2736 mW/cm²)
at 900MHz (300-6000MHz) using formula $0.02619 f^{0.6834}$ from Table 4*

*Power Density, $S = EIRP / 4 * \pi * R^2$
 $R = \sqrt{EIRP / S * 4 * \pi}$*

= 8.2 cm.

Antenna 2 - 150.06mW Ave. EIRP:

This antenna meets the clause **2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation** criteria in RSS-102 Clause 2.5.1, Table 1 for the 10-g limit (limb worn) devices with a separation distance of 22.5mm or greater.

This device meets the clause **2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation** criteria in RSS-102 Clause 2.5.1, using Table 4 for the 1-g limit (body) devices with a separation distance of 6.6 cm as shown in the calculation below:

*Calculated Power Density Limit = 2.736 W/m² (0.2736 mW/cm²)
at 900MHz (300-6000MHz) using formula $0.02619 f^{0.6834}$ from Table 4*

*Power Density, $S = EIRP / 4 * \pi * R^2$
 $R = \sqrt{EIRP / S * 4 * \pi}$*

= 6.6 cm

Antenna 3 - 71.49mW Ave. EIRP

This antenna meets the clause **2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation** criteria in RSS-102 Clause 2.5.1, Table 1 for the 10-g limit (limb worn) devices with a separation distance of 10 mm or greater.

This device meets the clause **2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation** criteria in RSS-102 Clause 2.5.1, Table 1 for the 1-g limit (body) devices with a separation distance of 26.68 mm or greater as outlined in the above table.

Antenna 4 – 119.75mW Ave. EIRP

This antenna meets the clause **2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation** criteria in RSS-102 Clause 2.5.1, Table 1 for the 10-g limit (limb worn) devices with a separation distance of 17.8 mm or greater.

This device meets the clause **2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation** criteria in RSS-102 Clause 2.5.1, Table 1 for 1-g limit (body) devices with a separation distance of 43 mm or greater.



Appendix A **ABBREVIATIONS**

Abbreviation	Definition
AC	Alternating Current
AM	Amplitude Modulation
CE	European Conformity
CISPR	Comité International Spécial des Perturbations Radioélectriques (International Special Committee on Radio Interference)
DC	Direct Current
EFT	Electrical Fast Transient
EMC	Electro Magnetic Compatibility
EMI	Electro Magnetic Interference
ESD	Electrostatic Discharge
EUT	Equipment Under Test
FCC	Federal Communications Commission
FVIN	Firmware Version Identification Number FVIN
IC	Industry Canada
ICES	Interference Causing Equipment Standard
IEC	International Electrotechnical Commission
LISN	Line Impedance Stabilizing Network
OATS	Open Area Test Site
RF	Radio Frequency
RMS	Root-Mean-Square
SAC	Semi-Anechoic Chamber

END OF REPORT