





1204  
Accredited to  
ISO/IEC 17025:2017

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**3C Test Ltd**

**Issue No:** 059    **Issue date:** 08 November 2021

Testing performed at main address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Aerospace Equipment Compressors Computers and peripherals Construction Plant and Equipment Domestic Appliances: Electrical Electrical/electronic Components Electrical/electronic Connectors Electrical/electronic Products Electro-Mechanical Devices Electronic Products, Digital Enclosures for Electrical Equipment Fans Flowmeters Gas Appliances Generators: Electrical Generators: Power Generators: Welding IT Equipment Instruments: Indicating/Recording Lamps: Electrical Lawnmowers Lifts: Electrical Marine Equipment Measuring Equipment Military Equipment Motor Vehicle Accessories and Components Motor Vehicles Motors: Electrical Printed Circuit Boards Radio and TV Equipment Safety Appliances and Equipment Switchboards: Electrical Telecommunication Equipment Tools: Hand (Electrical) Video Equipment	<b>1 CIVIL EMC TESTS</b>  1.1 Conducted Emissions 9 kHz to 300 MHz  AC mains: Single phase up to 32A  Voltage up to 240 V Three phase up to 32A Voltage up to 415 V Continuous and Discontinuous DC voltage, up to 60V/100A	CISPR 16-2-1:2005 (Ed 1.1) EN 55011:1991 EN 55011:1998+A1:1999+A2:2002 EN 55011:2007+A2:2007 EN 55011:2009+A1:2010 EN 55011: 2016 CISPR 11:2009+A1:2010 EN 55014-1:1993+A1:1997 EN 55014-1:1997 EN 55014-1:2006 EN 55014-1:2006+A1:2009 EN 55014-1:2006+A2:2011 EN 55014-1: 2017 EN 55022:1995+A1:1995+A2:1997 EN 55022:1998+A1:2000+A2:2003 CISPR 22:1997+A1:2000+A2:2002 EN 55022:2006+A1:2007 CISPR 22:2005 EN 55022:2010 ANSI C63.4:1992 ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.4:2014 EN 55032:2015 EN 55032:2015	A, B
	1.2 Radiated Emissions: 150 kHz to 18 GHz	ANSI C63.4:2009 FCC CFR 47 Part 15B  ICES 003:2004 Germanischer Lloyd GL 2001, VI, Part 7, Chapter 3, Section 3 Part B21 CISPR 16-2-3:2006 CISPR 16-2-3: 2010 CISPR 16-2-3: 2016	A, B



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As listed on Page 2	<b>1 CIVIL EMC TESTS</b> (cont'd)  1.2 Radiated Emissions: 150 kHz to 18 GHz AC mains: as in 1.1 (cont'd)	EN 55011:1991 EN 55011:1998+A1:1999+A2:2002 EN 55011:2007+A2:2007 EN 55011:2009+A1 2010 EN 55011: 2016 CISPR 11:2009+A1 2010 EN 55022:2006+A1:2007 CISPR 22:2005 EN 55022:2010 CISPR 22:2009 ANSI C63.4:2003 ANSI C63.4:2009 FCC/OST MP-5:1986 FCC CFR 47 Part 15B Including boresight measurement FCC CFR 47 Part 18 ICES 003:2004 Germanischer Lloyd GL 2001, VI, Part 7, Chapter 3, Section 3, Part B22 EN 55032:2015 EN 55012:2007 + A1:2009	A, B
	1.3 Power Absorbing Emissions Measurements (Power Clamp) 30 MHz to 300 MHz AC mains: as in 1.1	CISPR 16-2-2:2005 EN 55014-1:1997 EN 55014-1:2006 EN 55014-1:2006+A1:2009 EN 55014-1:2006+A2:2011 EN 55014-1: 2017	A
	1.4 Harmonic Emissions Up to 75 A	EN 61000-3-2:2006 EN 61000-3-2:2006+A2:2009 EN 61000-3-2:2014 EN 61000-3-2: 2019 EN 61000-3-12: 2011	A



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As listed on Page 2	<b>1 CIVIL EMC TESTS</b> (cont'd)		
	1.5 Flicker Measurement Up to 75 A	EN 61000-3-3:1995+A1:2001 +A2:2006 EN 61000-3-3:2008 EN 61000-3-3:2013 EN 61000-3-3: 2013 + A1: 2019 EN 61000-3-11 2001 EN 61000-3-11: 2019	A
	1.6 Fast Transient/Burst Immunity 0.5 to 4.0 kV 5/50 nsec, 5 kHz repetition AC mains: as in 1.1	EN 61000-4-4:1995+A1:2001 +A2:2002 EN 61000-4-4:2004 EN 61000-4-4:2004+A1:2010 EN 61000-4-4:2012	A
	1.7 Surge Immunity Waveforms 1.2/50 (8/20) $\mu$ s AC mains: as in 1.1	EN 61000-4-5:1995+A1:2001 EN 61000-4-5:2006 EN 61000-4-5:2014 EN 61000-4-5:2014 + A1: 2017	A
1.8 AC Power Ports Voltage Dips, Interruptions and Fluctuations AC mains: as in 1.1	EN 61000-4-11:1994+A1:2001 EN 61000-4-11:2004 EN 61000-4-11:2004 + A1:2017	A	



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As listed on Page 2	<b>1 CIVIL EMC TESTS (cont'd)</b>  1.9 Radiated Immunity 80 MHz to 1000 MHz at 20V/m (10 V/m location B) 1 to 2.7 GHz at 10 V/m 2.7 to 6 GHz at 3 V/m (AM modulated for the above ranges)  Spot frequencies with pulse modulation as per the requirements of EN 60601-1-2: 2015 AC mains: as in 1.1	EN 61000-4-3:1996 EN 61000-4-3:2002+A1:2002 EN 61000-4-3:2006 EN 61000-4-3 2006+A1:2008 +A2:2010  EN 61000-4-3:2020	A, B
	1.10 Power Frequency Magnetic Fields (Immunity) Frequency: 50 Hz Field strength: 100 A/m AC mains: as in 1.1	EN 61000-4-8:1994 EN 61000-4-8:2010	A
	1.11 Pulse Magnetic Immunity Field strength: 1000 A/m AC mains: as in 1.1	EN 61000-4-9:1994	A
	1.12 Conducted Immunity 150 kHz to 230 MHz RF voltage up to 10 Vrms AC Mains: as in 1.1	EN 61000-4-6:1996+A1:2001 EN 61000-4-6:2007 EN 61000-4-6:2009 EN 61000-4-6: 2014	A, B
	1.13 Electrostatic Discharge Immunity Positive and Negative Polarity (ESD) Up to 20 kV <ul style="list-style-type: none"> <li>• Direct and Indirect</li> <li>• Air and Contact                Discharge</li> </ul>	EN 61000-4-2:1995+A1:1998 +A2:2001 EN 61000-4-2:2009	A



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As listed on Page 2	<p><b>1 CIVIL EMC TESTS (cont'd)</b></p> <p>1.14 Generic Standards</p> <p>These Generic and Product specific tests are included in this Schedule, but limited to those referred basic standards that are explicitly listed in Sections 1.1 to 1.14.</p> <p>Note: International Standards EN, ENV and IEC, listed in this Schedule, that have been adopted nationally as BS EN DD ENV and BS IEC and are technically</p>	<p>EN 61000-6-1:2001 EN 61000-6-1:2007 EN 61000-6-2:2001 EN 61000-6-2:2005 EN 61000-6-2:2019 EN 61000-6-3:2001+A11:2004 EN 61000-6-3:2007 EN 61000-6-3:2007+A1:2011 EN 61000-6-4:2001 EN 61000-6-4:2007 EN 61000-6-4:2007+A1:2011 EN 61000-6-4: 2019 EN 50081-1:1992 EN 50081-2:1994 EN 50082-1:1992 EN 50082-1:1997 EN 50082-2:1994 EN 50121-4:2006 EN 50121-4: 2016 EN 50121-3-2:2006 EN 50121-3-2: 2016 EN 50130-4:1995 +A1:1998+A2:2003 EN 50130-4:2011 EN 50130-4:2011 +A1:2014 EN 50270:2006 EN 50270:2015 EN 50293:2000 EN 60601-1-2:1993 EN 60601-1-2:2001 EN 60601-1-2:2007 EN 60601-1-2:2015 IEC 60601-1-2: 4.0 EN 55014-2:1997+A1:2001 EN 55014-2:1997+A2:2008 EN 55014-2:1997 +A1:1998+A2:2001+A3:2007 EN 55014-2:2015 EN 55016-1-1: 2019 EN 55016-1-2: 2014 +A1: 2018 EN 55016-2-1: 2015 + A1: 2018 EN 55035: 2017</p>	A, B



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As listed on Page 2	<p><b>1 CIVIL EMC TESTS (cont'd)</b></p> <p>1.14 Generic Standards</p>	<p>EN 61326:1997 +A1:1998+A2:2001+A3:2003 EN 61326-1:2006 EN 61326: 2013 EN 55024:1998+A1:2001+A2:2003 CISPR 24:1997+A1:2001+A2:2002 EN 55024:2010 EN 60945:2002, section 9 &amp; 10 EN 61800-3:2004+A1:2012 excluding Clause 6.2.2, 6.2.3.2, 6.2.3.3, 6.2.4.2, 6.2.4.3 &amp; 6.2.5 Note: Up to 16 Amps for EN 61000-3-2 and EN 61000-3-3 and up to 32 Amps per phase other tests (include any exceptions or limitations) EN 50498:2010 ECE Regulation 10.04 Excluding 3 Phase Charge point testing for harmonics and Flicker ECE Regulation 10.05 Excluding 3 phase charge point for harmonics and flicker ECE Regulation 10.06 Excluding 3 phase charge point for harmonics and flicker</p> <p>EN 301 489-1: V1.9.2 : 2011 EN 301 489-3: V1.6.1 : 2013</p>	A, B



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As listed on Page 2	<b>2 MILITARY/AEROSPACE</b>  2.1 Conducted Emissions: Power, Control and Signal Leads: DC to 400 MHz	MIL STD 461E, CE101 and CE102 MIL STD 461F, CE101 and CE102 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCE01 & DCE02 DEF STAN 59-411:Part 3 Issue 1:2007 DCE01 & DCE02 DEF STAN 59-411:Part 3 Issue 1:2007 + A1:2008 DCE01 & DCE02 DEF STAN 59-411: Part 3 Issue 3: 2019 RTCA/DO160C Section 21 RTCA/DO160E, Section 21	A
	2.2 Radiated Emissions: Electric Field: 10 kHz to 18 GHz	MIL STD 461D and E, RE102 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRE01 DEF STAN 59-411:Part 3 Issue 1:2007 DRE01 DEF STAN 59-411:Part 3 Issue 1:2007 + A1:2008 DRE01 DEF STAN 59-411 Part 3 Issue 2:2014 DRE01.B DEF STAN 59-411: Part 3 Issue 1: 2007 DRE03 DEF STAN 59-411: Part 3 Issue 1: 2007 + A1: 2008 DRE03 DEF STAN 59-411: Part 3 Issue 2: 2014 DRE03 DEF STAN 59-411: Part 3 Issue 3: 2019 RTCA/DO160C, Section 21 RTCA/DO160E, Section 21	A





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As listed on Page 2	<b>2 MILITARY/AEROSPACE</b> (cont'd)		
	2.3 Radiated Emissions: Magnetic Field: 20 Hz to 100 kHz	MIL STD 461E, RE101 MIL STD 461F, RE101 DEF STAN 59-411 Part 3 DRE02 DEF STAN 59-411:Part 3 Issue:2007 + A1:2008 DRE02 DEF STAN 59-4111: Part 3 Issue 3: 2019	A
	2.4 Exported Transients Power Lines	DEF STAN 59-411 Part 3 Issue 1:2007 DCE03 DEF STAN 59-411:Part 3 Issue:2007 + A1:2008 DCE03 DEF STAN 59-411 Part 3 Issue 3:2019	A
2.5 Radiated Susceptibility: Electric Field: 14 kHz to 18 GHz Maximum Field Strength: 50 V/m 100kHz - 18 GHz at Maximum Field Strength: 100 V/m Substitution and Closed Loop Methods	MIL STD 461D and E, RS103 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DRS02 DEF STAN 59-411:Part 3 Issue 1:2007 DRS 02 DEF STAN 59-411:Part 3 Issue:2007 + A1:2008 DRS02 DEF STAN 59-411 Part 3 Issue 2 March 2014 DRS02.B DEF STAN 59-4111: Part 3 Issue 3: 2019 RTCA/DO160C Section 20 RTCA/DO160E Section 20	A	



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As listed on Page 2	<b>2 MILITARY/AEROSPACE</b> (cont'd)		
	2.6 Radiated Susceptibility: Magnetic Field: 20 Hz to 150 kHz Maximum Field Strength: 180 dBpT	MIL STD 461D, E and F RS101 DEF STAN 59-411 Part 3 Issue 1:2007 DRS01 DEF STAN 59-411:Part 3 Issue:2007 + A1:2008 DRS01 DEF STAN 59-4111: Part 3 Issue 3: 2019	A
	2.7 Conducted Susceptibility: Transients 10 Hz to 150 kHz	RTCA/DO160E & F Section 19	A
	2.8 Conducted Susceptibility: Power, Control and Signal Lines including Bulk Current Injection 10 kHz to 400 MHz	MIL STD 461D, E and F, CS114 & CS 115 MIL STD 461E and F, CS101 DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS02 DEF STAN 59-411:Part 3 Issue 1:2007 DCS 02, DCS 03 DEF STAN 59-411:Part 3 Issue:2007 + A1:2008 DCS02 & DCS03 DEF STAN 59-4111: Part 3 Issue 3: 2019 RTCA/DO160C Section 20 RTCA/DO160E & F Section 18	A



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As listed on Page 2	<b>2 MILITARY/AEROSPACE</b> (cont'd)		
	2.9 Conducted Susceptibility: Primary Power Lines, 20 Hz - 50 kHz	DEF STAN 59-411:Part 3 Issue 1:2007 DCS 01 DEF STAN 59-411:Part 3 Issue:2007 + A1:2008 DCS01 DEF STAN 59-4111: Part 3 Issue 3: 2019	A
	2.10 Magnetostatic Field Susceptibility 800 A/m	DEF STAN 59-411:Part 3 DRS03 DEF STAN 59-411:Part 3 Issue:2007 + A1:2008 DRS03 DEF STAN 59-4111: Part 3 Issue 3: 2019	A
	2.11 Electrostatic Discharge	DEF STAN 59-41:Part 3, Section 3, Issue 1:2003 DCS10 DEF STAN 59-411:Part 3 Issue 1:2007 DCS10 DEF STAN 59-411:Part 3 Issue:2007 + A1:2008 DCS10 DEF STAN 59-4111: Part 3 Issue 3: 2019 RTCA/DO160E & F Section 25	A
	2.12 Compass Safe Distance	DO160 E Section 15	A



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As listed on Page 2	<b>3 AUTOMOTIVE</b>		
	3.1 Conducted Emissions 9 kHz to 300 MHz	CISPR 25:2002 CISPR 25:2008 CISPR 25:2016 ECE Regulation 10.04 Annex 13 & 14 ECE Regulation 10.05 Annex 13, 14, 19 & 20 ECE Regulation 10.06 Annex 13, 14, 19 & 20 EN 61851-21-1: 2017	A, B
	3.2 Radiated Emissions: 150 kHz to 18 GHz  Measurement of Magnetic and Electric Field Strength from Electric Vehicles 9kHz to 30MHz  Earth Moving & Construction Machinery: Vehicle and Components	CISPR 25:2002 CISPR 25:2008 CISPR 25:2016 EC Directive 72/245/EC EC Directive 95/54/EC, Annex 7  and 8 EC Directive 2004/104/EC, Annex IV, V, VII and VIII EC Directive 2006/28/EC EC Directive 97/24/EC, chapter 8 Annex II and III Annex V and VI SAE J1551-5 Jan 2004 SAE J1551-5 May 2012 EN 61851-21-1: 2017 EC Directive 2009/64/EC ISO 13766:2006 ISO 13766-1: 2018 EN ISO 14982:1998 EN 14982:2009 EN 13309:2000 EN 13309:2010 ECE Regulation 10.04 Annex 4,5, 7 & 8 ECE Regulation 10.05 Annex 4,5, 7 & 8 ECE Regulation 10.06 Annex 4, 5, 7 & 8	A, B



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As listed on Page 2	<b>3 AUTOMOTIVE (cont'd)</b>  3.3 Radiated Immunity Absorption Chamber  Whole Vehicle and Component  400 MHz - 6 GHz at 200 V/m 6 GHz – 10 GHz at 100V/m 1.2 GHz - 3.4 GHz at 600V/m  Earth Moving & Construction Machinery: Vehicle and Components	SAE J1113-21:1998 ISO 11452-2:1995 ISO 11452-2:2004, substitution method ISO 11452-2:2019 EC Directive 72/245/EC EC Directive 2004/104/EC, Annex VI and IX EC Directive 2006/28/EC EC Directive 97/24/EC, chapter 8 Annex IV and Annex VII EC Directive 2009/64/EC ISO 13766:2006 ISO 13766-1: 2018 ISO 13766-2: 2018 EN ISO 14982:1998 EN ISO 14982: 2009 EN13309:2000 EN13309:2010	A, B
	3.3 Radiated Immunity Absorption Chamber  Transverse Electromagnetic (TEM) cell 10kHz to 300MHz  Stripline 10kHz to 400 MHz  Portable Transmitters Magnetic Field 15Hz to 150kHz	SAE J1113-25:1999 SAE J1113-23:1995 ISO 11452-3:2016 ISO 11452-5:2004, 150mm stripline substitution method EC Directive 72/245/EC EC Directive 95/54/EC, Annex 9 EC Directive 2004/104/EC, Annex IX EC Directive 2006/28/EC EC Directive 97/24/EC, chapter 8 ECE Regulation 10.04 Annex 6 & 9 ECE Regulation 10.05 Annex 6 & 9 ECE Regulation 10.06 Annex 6 & 9 ISO 11452-9: 2012 ISO 11452-8: 2007 ISO 11452-8: 2015 EN 61851-21-1: 2017 ISO 11451-2: 2015 ISO 11451-3: 2015	A



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As listed on Page 2	<b>3 AUTOMOTIVE</b> (cont'd)  3.4 Conducted Immunity 150 kHz to 230 MHz  RF voltage up to 10 Vrms  BCI 0.1 MHz to 400 MHz	ISO 11452-4:2001 ISO 11452-4:2005, subst. method ISO 11452-4:2011 (excluding TWC test method) ISO 11452-4:2020 (excluding TWC test method) EC Directive 72/245/EC EC Directive 95/54/EC, Annex 9 EC Directive 2004/104/EC, Annex IX EC Directive 2006/28/EC  EC Directive 97/24/EC, chapter 8 Annex VII ECE Regulation 10.04 Annex 6 & 9 ECE Regulation 10.05 Annex 6 & 9 ECE Regulation 10.06 Annex 6 & 9 EN 61851-21-1: 2017	A, B
	3.5 Electrostatic Discharge Immunity Positive and Negative Polarity (ESD) Up to 20 kV  <ul style="list-style-type: none"> <li>• Direct and Indirect</li> <li>• Air and Contact Discharge</li> </ul>	ISO 10605:2001 ISO 10605:2008 ISO 10605: 2008 + corrigendum March 2010 ISO 10605:2008+A1:2014 ISO 13766:2006 ISO 13766-1: 2018 ISO 13766-2: 2018 EN ISO 14982:1998 EN ISO 14982: 2009 EN13309:2000 EN13309:2010	A, B



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As listed on Page 2	<b>3 AUTOMOTIVE (cont'd)</b>  3.6 Vehicle and component Transient Testing 12 and 24 v Emissions and Immunity  Harmonics & Flicker Burst & Surge	ISO 7637-1:1990, except Pulse 5 ISO 7637-2:1990, except Pulses 1, 2, 5 ISO 7637-2:2004 ISO 7637-2: 2011 ISO 7637-3:1995 ISO 7637-3: 2007 ISO 7637-3:2016 ISO 16750-2: 2006 ISO 16750-2: 2010 ISO 16750-2: 2012 ECE Regulation 10.04 Annexes 10, 11, 12, 15 & 16 ECE Regulation 10.05 Annexes 10, 11, 12, 15, 16, 17,18, 21, & 22 ECE Regulation 10.06 Annexes 10, 11, 12, 15, 16, 17, 18, 21 & 22  EN 61851-21-1: 2017	A
	3.7 EMF exposure tests  1 Hz to 400 kHz Frequency Range	RE320 ICNIRP: 1998 Reference Levels,  FMC1278 Revision 3, Time Domain Assessment Method to EN62311: 2008	A
	3.8 Generic Automotive Standards	ISO 11451-1: 2005 ISO 11451-1: 2015 ISO 7637-1: 2002 ISO 7637-1: 2015	A



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UNINTENTIONAL RADIATORS	<b>SECTION 4 EU US MRA Accredited Scope</b>  Conducted Emissions 9 kHz to 30 MHz  Radiated Emissions 30 MHz to 18 GHz	ANSI C63.4-2014 FCC Part 15, subpart B	A
INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT Consumer ISM Equipment	Conducted Emissions  9 kHz to 30 MHz  Radiated Emissions 30 MHz to 18 GHz	FCC MP-5 (February 1986), FCC Part 18	A





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<b>Laboratory Facilities:</b>			
Semi-Anechoic Chamber AC1 7.6 m (l) x 6.1 m (w) x 3.75 m (h) overall; 6.47 m (l) x 4.94 m (w) x 3.0 m (h) effective			A
Semi-Anechoic Chamber AC2 7.3 m (l) x 6.46 m (w) x 3.6 m (h) overall; 6.46 m (l) x 4.97 m (w) x 3.53 m (h) effective			A
Semi-anechoic Chamber AC3 3 m CISPR 16 compliant 9.0 m (l) x 6.1 m (w) x 5.7 m (h) overall; 8.45 m (l) x 5.08 m (w) x 5.65 m (h) effective			A
Semi-anechoic Chamber AC4 10 m CISPR 16 compliant 18.2 m (l) x 12.7 m (w) x 8.1 m (h) overall; 17.7 m (l) x 11.55 m (w) x 7.55 m (h) minimum effective Door Size: 4 m x 4 m    Max Load: 20 tonne			A
Semi-anechoic Chamber AC5 7.3 m (l) x 7.1 m (w) x 4.15 m (h) overall 7.0m (l) x 6.8m (w) x 3.85 m (h) minimum effective			A
Semi-anechoic Chamber AC6 10 m CISPR 16 compliant 22.0 m (l) x 14.5 m (w) x 8.5 m (h) overall; 20.5 m (l) x 13.1 m (w) x 7.8 m (h) minimum effective Door Size: 5 m x 5 m    Max Load: 50 tonne			B
Screened Room SR1 4.85 m (l) x 3.34 m (w) x 3.0 m (h)			A
Dedicated Automotive Transient Laboratory, Auto 1, Auto 3 & Auto 4,Auto 5 & Auto 6			A
Dedicated High Voltage, ESD and Harmonics Laboratory, LAB2			A
Environmentally controlled labs for transient, ESD and Electrical Testing, LAB 3 Auto 1, Auto 3 & Auto 4,Auto 5 & Auto 6,			A



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**3C Test Ltd**

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Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>Laboratory Facilities:</b> (cont'd) Max size of EUT: 4.0 m x 6.0 m x 4.0 m  Electrical Supplies: 240V 50/60/400 Hz      up to 63 A 415V 50/60/400 Hz      up to 125 A 110V 50/60/400 Hz      up to 63 A 0 - 1000V DC			A, B
END			