

EMC Technologies Pty Ltd

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APPENDIX K OF TEST REPORT T150916

GRAPHS OF EMI MEASUREMENT

FCC ID: 2ACXQ-CL4NX-MR-1

Manufacturer: Sato Vicinity Pty Ltd

Test Sample: RFID Modular Read Write Reader

Model Number: MR-1 Module

Serial Number: Production Prototype

Date: 10th February 2016

APPENDIX K

GRAPHS OF EMI MEASUREMENT

CONDUCTED

Graph 1: Active Line 0.145 to 30.5 MHz

Graph 2: Neutral Line 0.145 to 30.5 MHz

RADIATED EMI

Graph 3: Magnetic Loop Antenna, Carrier 13.552 to 13.568 MHz

90º Emissions

Graph 4: Magnetic Loop Antenna, Carrier 13.552 to 13.568 MHz

0º Emissions

Graph 5: Magnetic Loop Antenna 9 kHz to 30 MHz

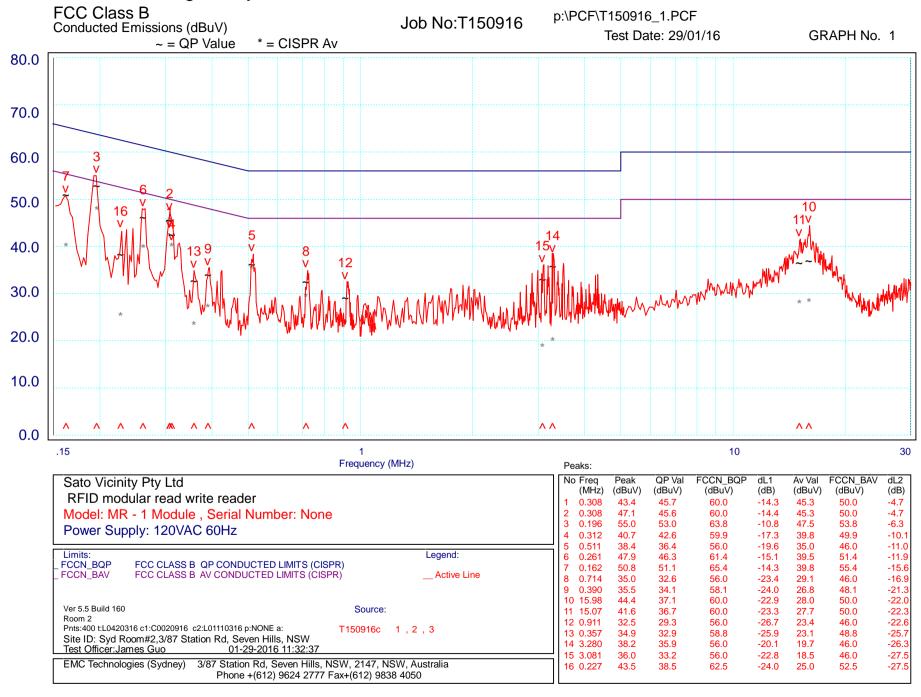
90º Emissions

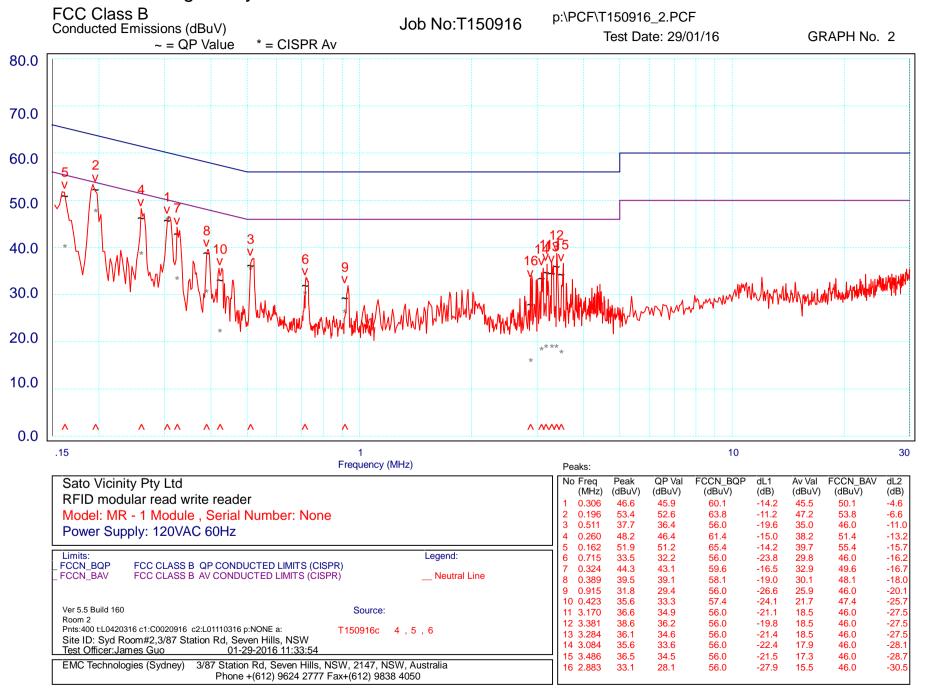
Graph 6: Magnetic Loop Antenna 9 kHz to 30 MHz

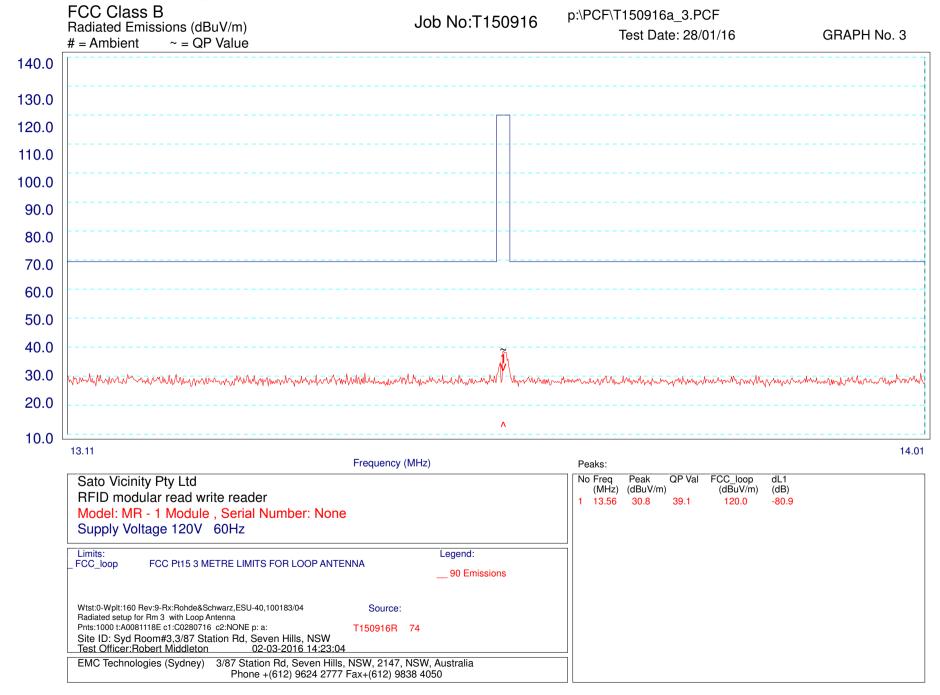
0º Emissions

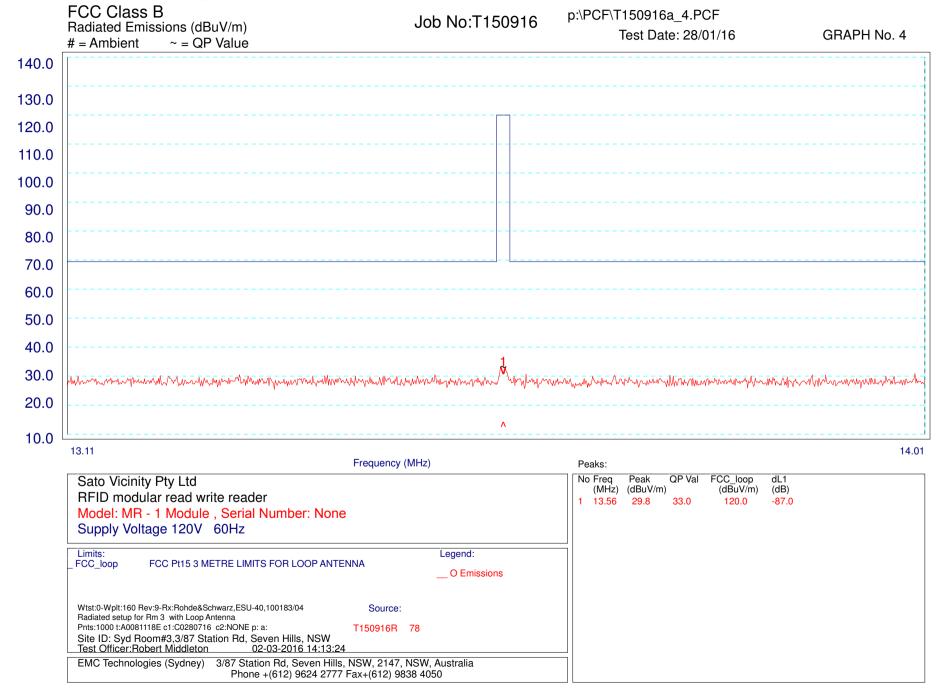
Graph 7: Vertical Antenna Polarisation 30 to 1000 MHz

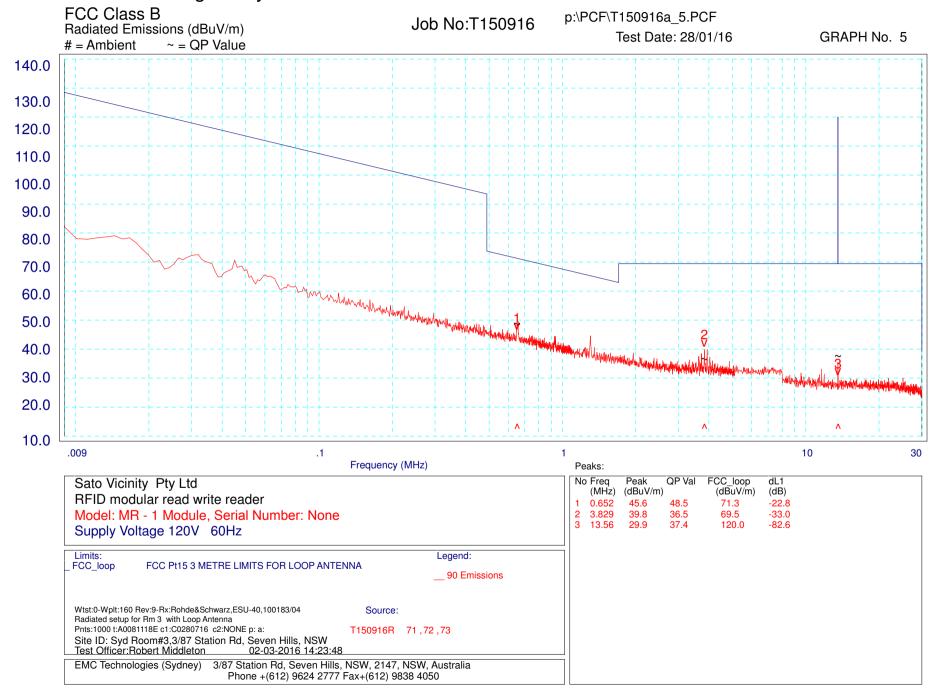
Graph 8: Horizontal Antenna Polarisation 30 to 1000 MHz

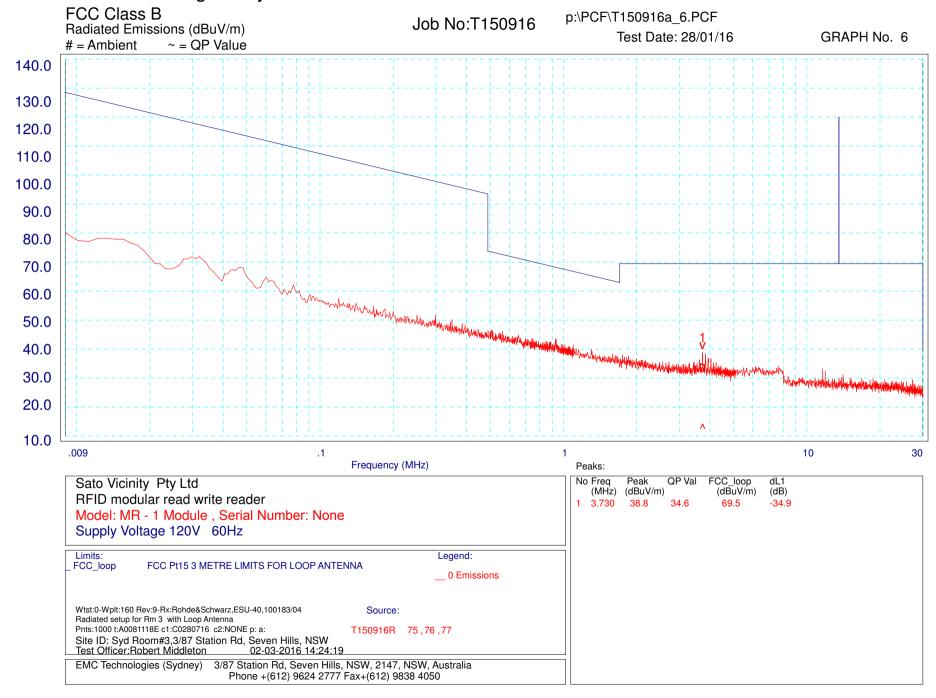












EMC Technologies Pty. Ltd. - Global Product Certification FCC Class B p:\PCF\T150916a_7.PCF Job No:T150916 Radiated Emissions (dBuV/m) Test Date: 28/01/16 GRAPH No. 7 ~ = QP Value # = Ambient 60.0 50.0 40.0 30.0 20.0 ΛΛ 10.0 29 1000 100 Frequency (MHz) Peaks: No Freq Peak QP Val FCC-B3 Sato Vicinity Pty Ltd dL1 (MHz) (dBuV/m) (dBuV/m) (dB) RFID modular read write reader 56.00 30.0 29.5 40.0 -10.5 Model: MR - 1 Module, Serial Number: None 33.5 31.1 46.0 -14.9 609.25 30.6 216.00 31.5 46.0 -15.4 Supply Voltage 120V 60Hz 480.01 30.8 -15.4 475.00 31.3 46.0 -15.5 Limits: Legend: 325.45 26.6 -18.0 46.0 FCC-B3 FCC CLASS B RAD 3M LIMITS 360.01 24.0 26.1 46.0 -19.9 Vertical Emissions 145.22 25.5 23.0 43.5 -20.5 9 97.96 24.1 22.4 43.5 -21.1 23.7 22.2 10 303.49 46.0 -23.8 Wtst:0-Wplt:160 Rev:9-Rx:Rohde&Schwarz,ESU-40,100183/04 Source: 11 54.24 17.4 12.8 Room 3 Pnts:1000 t:A0030216 c1:C0280716 c2:NONE p: a: T150916R 62,63,64,68,69,70 Site ID: Syd Room#3,3/87 Station Rd, Seven Hills, NSW Test Officer:Robert Middleton 02-03-2016 14:24:58 EMC Technologies (Sydney) 3/87 Station Rd, Seven Hills, NSW, 2147, NSW, Australia Phone +(612) 9624 2777 Fax+(612) 9838 4050

EMC Technologies Pty. Ltd. - Global Product Certification FCC Class B p:\PCF\T150916a_8.PCF Job No:T150916 Radiated Emissions (dBuV/m) GRAPH No. 8 Test Date: 28/01/16 ~ = QP Value # = Ambient 60.0 50.0 40.0 15 30.0 20.0 Λ ΛΛ Λ Λ Λ Λ 10.0 29 1000 100 Frequency (MHz) Peaks: No Freq Peak QP Val FCC-B3 Sato Vicinity Pty Ltd dL1 (MHz) (dBuV/m) (dBuV/m) (dB) RFID modular read write reader 216.00 33.6 39.2 46.0 -6.8 Model: MR - 1 Module , Serial Number: None 28.9 35.6 43.5 -7.9 200.00 37.2 680.01 34.9 46.0 -8.8 Supply Voltage 120V 60Hz 17.3 54.24 -10.6 640.01 36.7 46.0 -11.2 Limits: Legend: 32.6 34.7 -11.3 375.00 46.0 FCC-B3 FCC CLASS B RAD 3M LIMITS 325.46 24.5 34.6 46.0 -11.4 Horizontal Emissions 8 475.00 32.8 34.2 46.0 -11.8 9 232.00 29.8 33.8 46.0 -12.2 35.4 33.6 10 720.00 46.0 -12.4 Wtst:0-Wplt:160 Rev:9-Rx:Rohde&Schwarz,ESU-40,100183/04 Source: 30.3 33.4 11 360.01 46.0 -12.6 Room 3 12 56.00 25.1 27.3 -12.7 Pnts:1000 t:A0030216 c1:C0280716 c2:NONE p: a: T150916R 59,60,61,65,66,67 32.1 32.4 46.0 -13.6 13 350.01 Site ID: Syd Room#3,3/87 Station Rd, Seven Hills, NSW 14 145.09 19.4 29.6 43.5 -13.9 Test Officer:Robert Middleton 02-03-2016 14:25:36 29.6 15 184.00 30.5 43.5 -13.9 EMC Technologies (Sydney) 3/87 Station Rd, Seven Hills, NSW, 2147, NSW, Australia 16 145.00 26.5 29.2 43.5 -14.3 Phone +(612) 9624 2777 Fax+(612) 9838 4050