



Global Product Certification
EMC-EMF Safety Approvals

EMC Technologies Pty Ltd

ABN 82 057 105 549
Unit 3/87 Station Road
Seven Hills NSW 2147 Australia

Telephone +61 2 9624 2777
Facsimile +61 2 9838 4050
Email syd@emctech.com.au
www.emctech.com.au

**APPENDIX K
OF
TEST REPORT T160221_F**

GRAPHS OF EMI MEASUREMENT

FCC ID: 2ACXQ-PSC-6040
Manufacturer: Sato Vicinity Pty Ltd
Test Sample: RFID Smart Cabinet
Model Number: PSC-6040
Serial Number: Production Prototype

Date: 14th April 2016

Melbourne

176 Harrick Road
Keilor Park, Vic 3042
Tel: +61 3 9365 1000
Fax: +61 3 9331 7455

Sydney

Unit 3/87 Station Road
Seven Hills NSW 2147
Tel: +61 2 9624 2777
Fax: +61 2 9838 4050

Auckland (NZ)

47 MacKelvie Street
Grey Lynn Auckland
Tel: +64 9 360 0862
Fax: +64 9 360 0861

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:	Carrier 13.56 MHz	13.11 to 14.01 MHz
Graph 4:	Magnetic Loop Antenna, 0° Emissions	9 kHz to 30 MHz
Graph 5:	Magnetic Loop Antenna 90° Emissions	9 kHz to 30 MHz
Graph 6:	Vertical Antenna Polarisation	30 to 1000 MHz
Graph 7:	Horizontal Antenna Polarisation	30 to 1000 MHz

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FCC Class B
Conducted Emissions (dBuV)

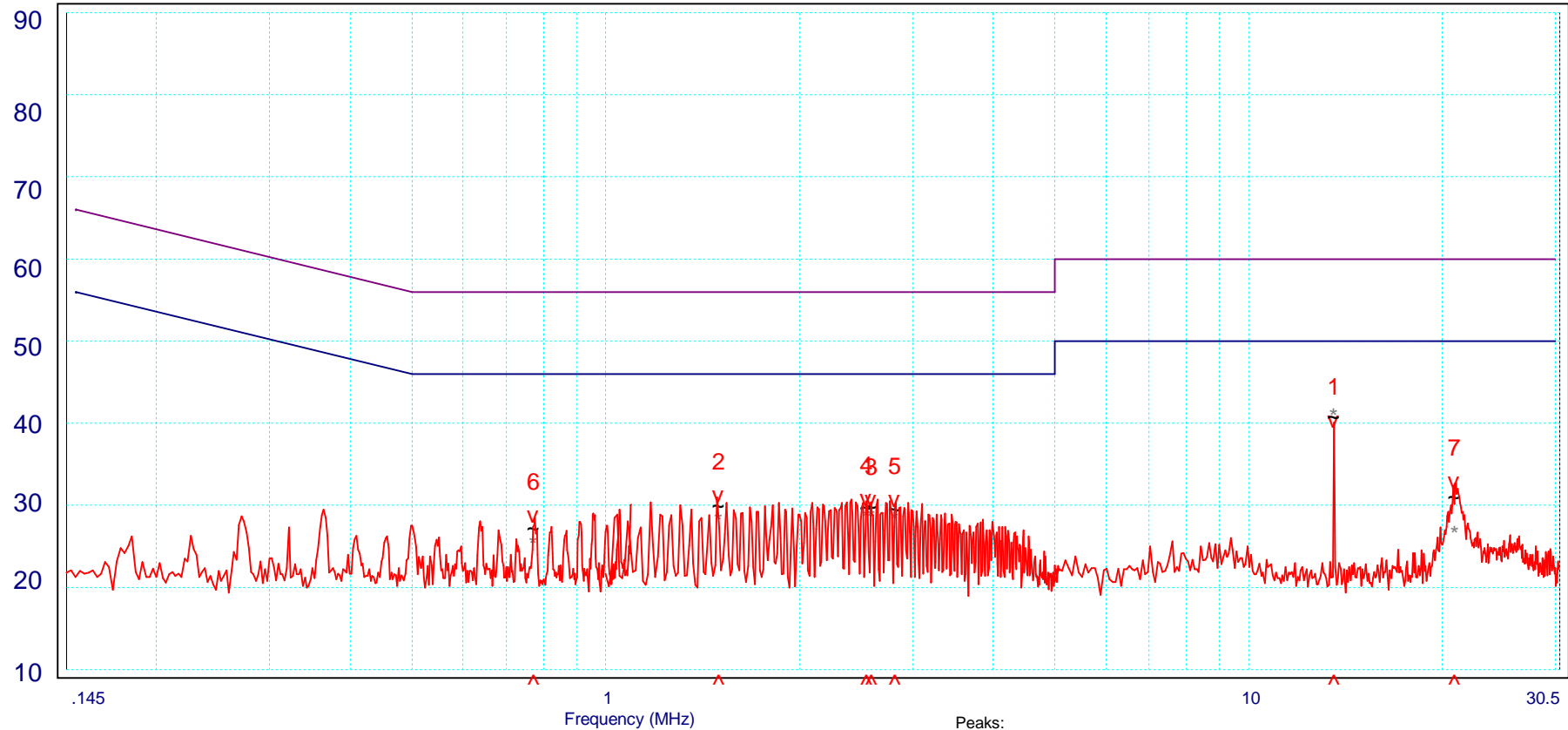
Job No:T160221

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Test Date: 17/03/16

GRAPH No. 1

Summed Traces



Sato Vicinity Pty Ltd
RFID Smart Cabinet
Model: PSC-6040 Transmitter and PC powered
Serial No: NA (Prototype)

Limits:
FCCN_BAV FCC CLASS B AV CONDUCTED LIMITS (CISPR)
FCCN_BQP FCC CLASS B QP CONDUCTED LIMITS (CISPR)

Legend:
— Active Line

Ver 5.5 Build 160
L015 single phase conducted setup
t:L0150116 c1:C0220916 c2:L01510316 p:NONE a:L0100916
Site ID: Syd Room#2,3/87 Station Rd, Seven Hills, NSW
Test Officer: Robert Middleton

Source:
T160221Cl4 , 15 , 16

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Phone +(612) 9624 2777 Fax+(612) 9838 4050

Peaks:

No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCCN_BAV (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BQP (dBuV)	dL2 (dB)
1	13.56	40.1	40.5	50.0	-9.5	40.4	60.0	-19.6
2	1.496	30.9	29.8	46.0	-16.2	27.6	56.0	-28.4
3	2.586	30.4	29.6	46.0	-16.4	28.0	56.0	-28.0
4	2.541	30.5	29.5	46.0	-16.5	28.1	56.0	-27.9
5	2.812	30.4	29.3	46.0	-16.7	27.8	56.0	-28.2
6	0.771	28.5	26.9	46.0	-19.1	24.8	56.0	-31.2
7	20.90	32.7	30.8	50.0	-19.2	26.1	60.0	-33.9

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FCC Class B
Conducted Emissions (dBuV)

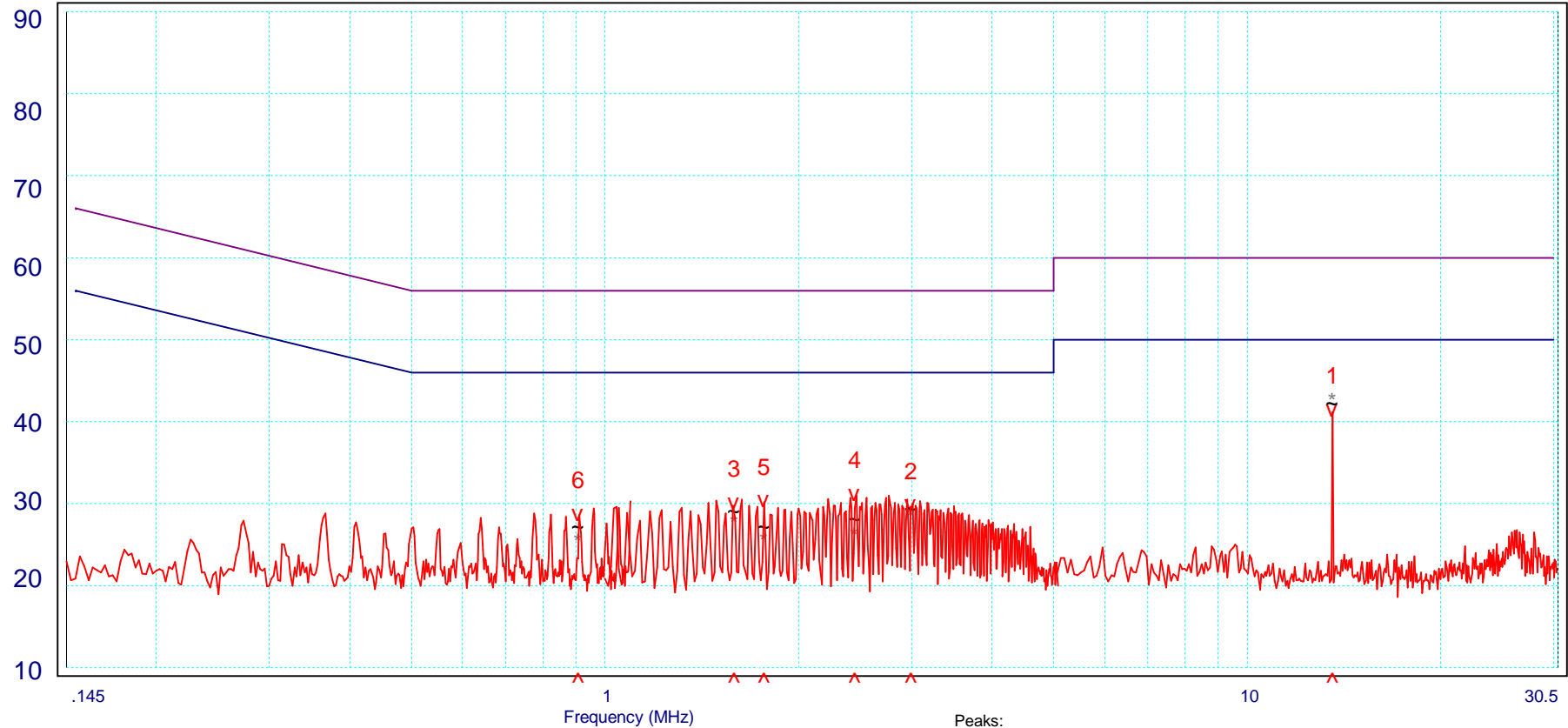
Job No:T160221

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Test Date: 17/03/16

GRAPH No. 2

Summed Traces



Sato Vicinity Pty Ltd
RFID Smart Cabinet
Model: PSC-6040 Transmitter and PC powered
Serial No: NA (Prototype)

No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCCN_BAV (dBuV)	dL1 (dB)	Av Val (dBuV)	FCCN_BQP (dBuV)	dL2 (dB)
1	13.56	41.2	42.0	50.0	-8.0	42.0	60.0	-18.0
2	2.993	29.6	29.2	46.0	-16.8	27.9	56.0	-28.1
3	1.587	29.9	28.9	46.0	-17.1	27.1	56.0	-28.9
4	2.446	30.9	27.9	46.0	-18.1	25.6	56.0	-30.4
5	1.766	30.2	27.0	46.0	-19.0	25.0	56.0	-31.0
6	0.906	28.5	26.9	46.0	-19.1	24.9	56.0	-31.1

Limits:
FCCN_BAV FCC CLASS B AV CONDUCTED LIMITS (CISPR)
FCCN_BQP FCC CLASS B QP CONDUCTED LIMITS (CISPR)

Legend:
— Neutral Line

Ver 5.5 Build 160
L015 single phase conducted setup
t:L0150116 c1:C0220916 c2:L01510316 p:NONE a:L0100916
Site ID: Syd Room#2,3/87 Station Rd, Seven Hills, NSW
Test Officer: Robert Middleton

Source:
T160221C11, 17, 13

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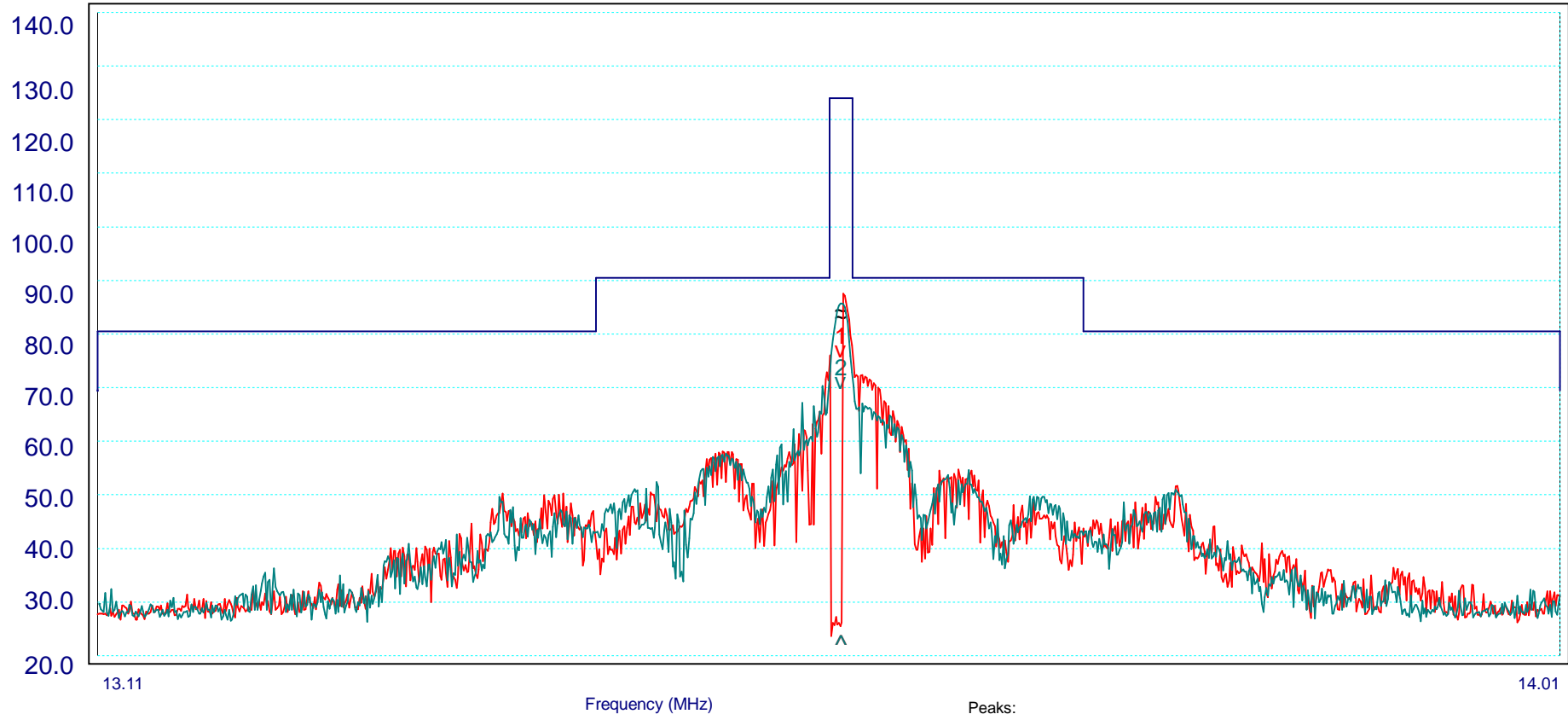
FCC Class B
 Radiated Emissions (dBuV/m)
 # = Ambient ~ = QP Value

Job No:T160221

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Test Date: 17/03/16

GRAPH No. 3



Sato Vicinity Pty Ltd
 RFID Smart Cabinet
 Model: PSC-6040 Transmitter only PC Not powered
 Serial No: NA (Prototype)

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC_loop_3m (dBuV/m)	dL1 (dB)
1	13.56	74.8	83.6	124.0	-40.4
2	13.56	68.9	84.7	124.0	-39.3

Limits: FCC_loop_3m Fcc Pt15 Subpart C Section 15.209(a) 3Metre Limits

Legend:
 — 90 Deg Emissions
 — 0 Deg Emissions

Wtst:0-Wplt:160 Rev:11-Rx:Rohde&Schwarz,ESU-40,100183/04 Source:
 Radiated setup for Rm 3 with Loop Antenna
 Pnts:1000 t:A0081118E c1:C0280716 c2:NONE p: a: 160221r2 5
 Site ID: Syd Room#3,3/87 Station Rd, Seven Hills, NSW 160221r2 1
 Test Officer:Robert Middleton 03-17-2016 12:54:26

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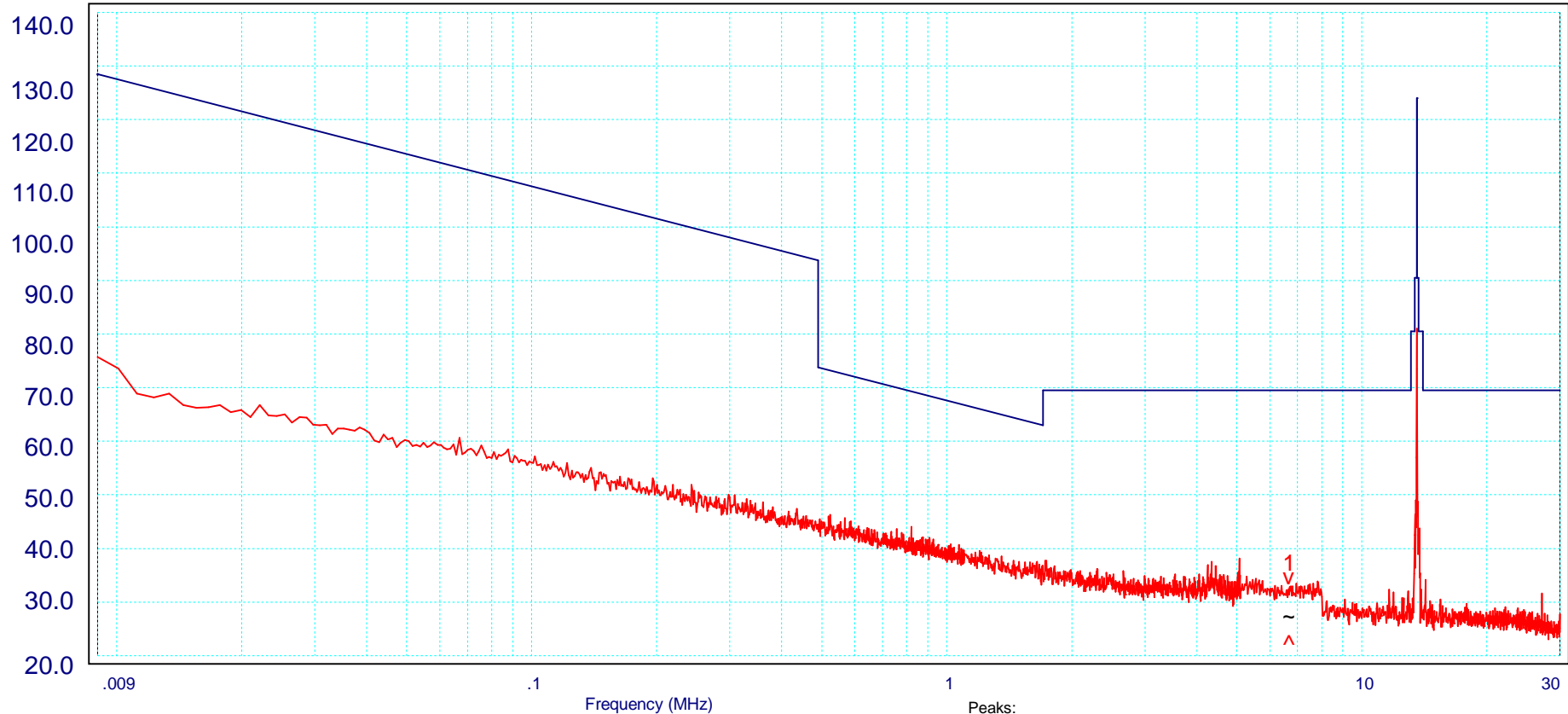
FCC Class B
 Radiated Emissions (dBuV/m)
 # = Ambient ~ = QP Value

Job No:T160221

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Test Date: 17/03/16

GRAPH No. 4



Peaks:

No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC_loop_3m (dBuV/m)	dL1 (dB)
1	6.663	32.4	27.6	69.5	-41.9

Sato Vicinity Pty Ltd
 RFID Smart Cabinet
 Model: PSC-6040 Transmitter only PC Not powered
 Serial No: NA (Prototype)

Limits:
 FCC_loop_3m Fcc Pt15 Subpart C Section 15.209(a) 3Metre Limits

Legend:
 — 0 Deg Emissions

Wtst:0-Wplt:160 Rev:11-Rx:Rohde&Schwarz,ESU-40,100183/04 Source:
 Radiated setup for Rm 3 with Loop Antenna
 Pnts:1000 t:A0081118E c1:C0280716 c2:NONE p: a: 160221r2 6 , 7 , 8
 Site ID: Syd Room#3,3/87 Station Rd, Seven Hills, NSW
 Test Officer:Robert Middleton 03-17-2016 12:52:35

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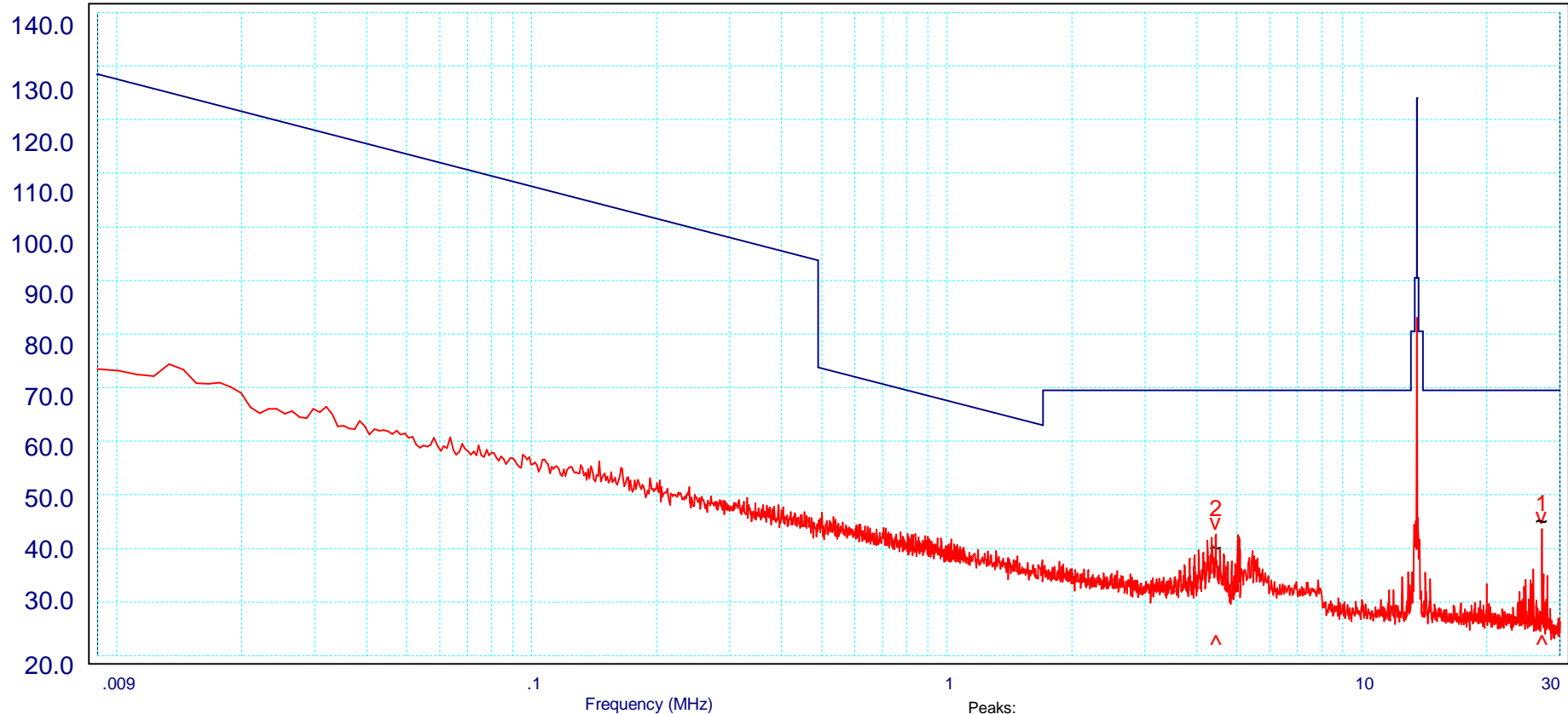
FCC Class B
 Radiated Emissions (dBuV/m)
 # = Ambient ~ = QP Value

Job No:T160221

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Test Date: 17/03/16

GRAPH No. 5



Sato Vicinity Pty Ltd
 RFID Smart Cabinet
 Model: PSC-6040 Transmitter only PC Not powered
 Serial No: NA (Prototype)

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC_loop_3m (dBuV/m)	dL1 (dB)
1	27.12	43.6	45.5	69.5	-24.0
2	4.441	42.6	40.5	69.5	-29.0

Limits: FCC_loop_3m Fcc Pt15 Subpart C Section 15.209(a) 3Metre Limits
 Legend: — 90 Deg Emissions

Wtst:0-Wplt:160 Rev:11-Rx:Rohde&Schwarz,ESU-40,100183/04 Source:
 Radiated setup for Rm 3 with Loop Antenna
 Pnts:1000 t:A0081118E c1:C0280716 c2:NONE p: a: 160221r2 2 , 3 , 4
 Site ID: Syd Room#3,3/87 Station Rd, Seven Hills, NSW
 Test Officer:Robert Middleton 03-17-2016 12:53:16

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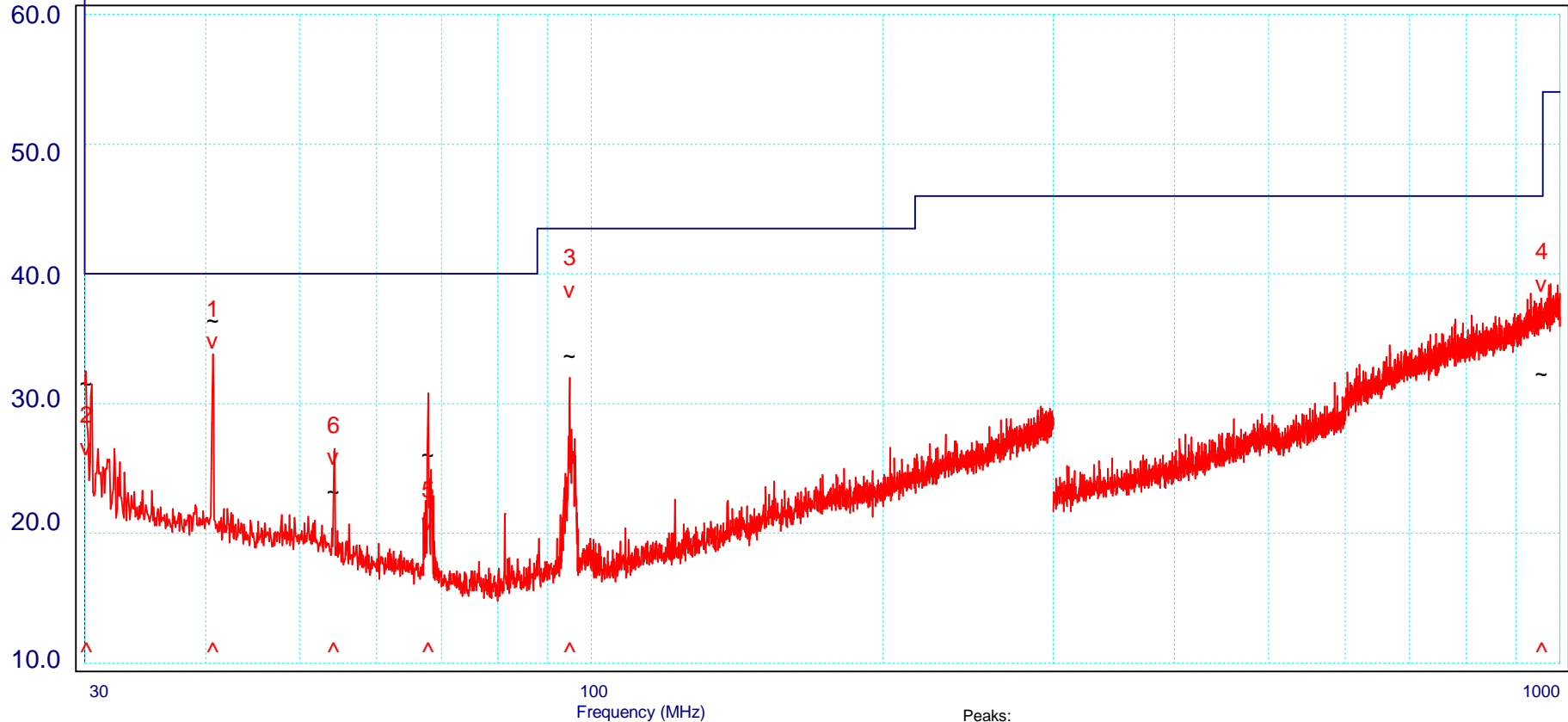
FCC Class B
 Radiated Emissions (dBuV/m)
 # = Ambient ~ = QP Value

Job No:T160221

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Test Date: 17/03/16

GRAPH No. 6



Sato Vicinity Pty Ltd
 RFID Smart Cabinet
 Model: PSC-6040 Transmitter only PC Not powered
 Serial No: NA (Prototype)

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC-B3 (dBuV/m)	dL1 (dB)
1	40.67	33.8	36.6	40.0	-3.4
2	30.08	25.6	31.7	40.0	-8.3
3	94.92	37.8	33.8	43.5	-9.7
4	957.15	38.2	32.4	46.0	-13.6
5	67.85	19.9	26.2	40.0	-13.8
6	54.18	24.9	23.3	40.0	-16.7

Limits: FCC-B3 FCC CLASS B RAD 3M LIMITS
 Legend: — Vertical Emissions

Wtst:0-Wplt:160 Rev:11-Rx:Rohde&Schwarz,ESU-40,100183/04 Source:
 Room 3
 Pnts:1000 t:A0030217 c1:C0280716 c2:NONE p: a: 160221r2 9 , 10 , 11 , 15 , 16 , 17
 Site ID: Syd Room#3,3/87 Station Rd, Seven Hills, NSW
 Test Officer:Robert Middleton 03-17-2016 15:06:39

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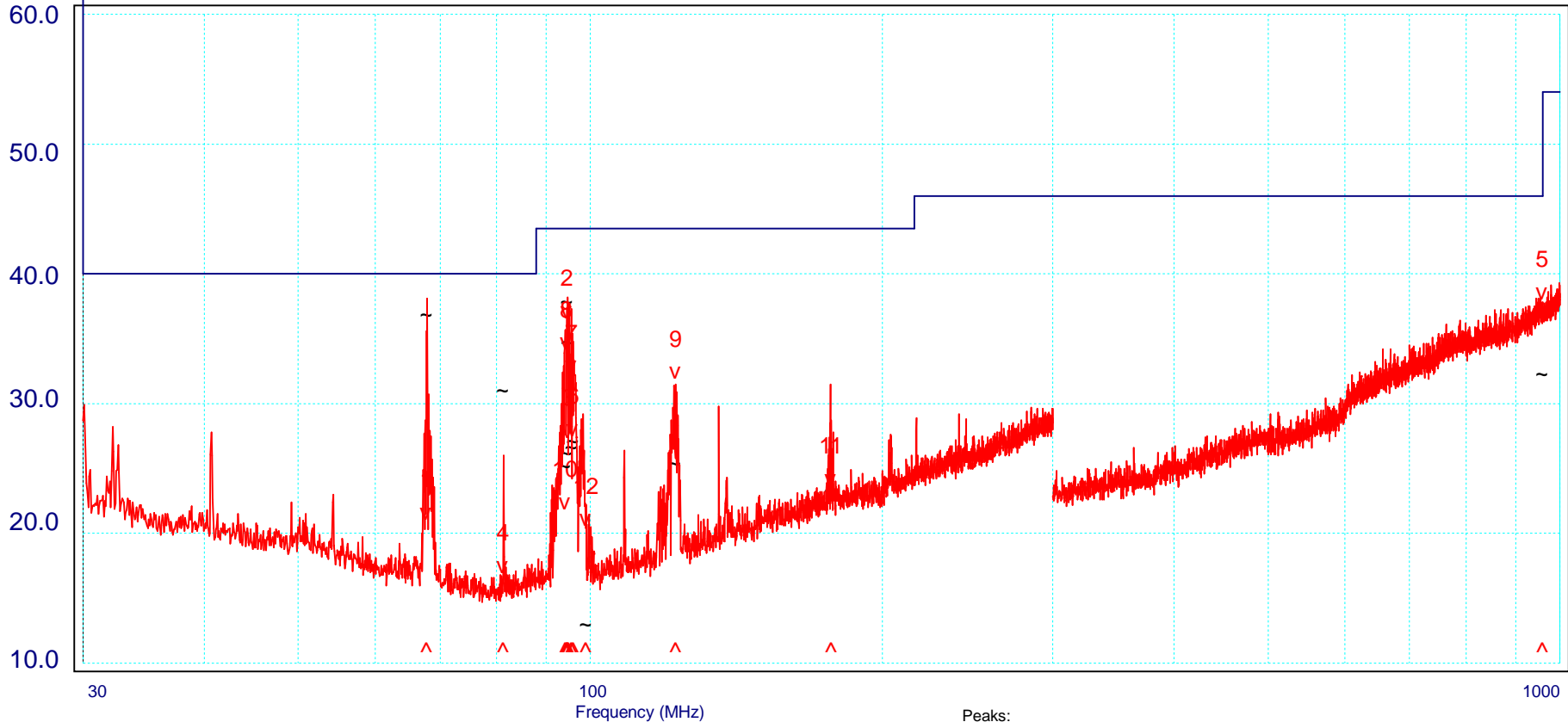
FCC Class B
 Radiated Emissions (dBuV/m)
 # = Ambient ~ = QP Value

Job No:T160221

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Test Date: 17/03/16

GRAPH No. 7



Sato Vicinity Pty Ltd
 RFID Smart Cabinet
 Model: PSC-6040 Transmitter only PC Not powered
 Serial No: NA (Prototype)

Limits: FCC-B3 FCC CLASS B RAD 3M LIMITS
 Legend: — Horizontal Emissions

Wtst:0-Wplt:160 Rev:11-Rx:Rohde&Schwarz,ESU-40,100183/04 Source:
 Room 3
 Pnts:1000 t:A0030217 c1:C0280716 c2:NONE p: a: 160221r2 12 , 13 , 14 , 18 , 19 , 20
 Site ID: Syd Room#3,3/87 Station Rd, Seven Hills, NSW
 Test Officer:Robert Middleton 03-17-2016 15:07:35

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 Phone +(612) 9624 2777 Fax+(612) 9838 4050

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	QP Val (dBuV/m)	FCC-B3 (dBuV/m)	dL1 (dB)
1	67.77	20.7	37.0	40.0	-3.0
2	94.63	36.2	37.9	43.5	-5.6
3	94.78	27.0	34.9	43.5	-8.6
4	81.30	16.6	31.1	40.0	-8.9
5	957.78	37.7	32.4	46.0	-13.6
6	95.96	27.1	27.2	43.5	-16.3
7	95.53	32.0	26.8	43.5	-16.7
8	94.52	33.8	26.3	43.5	-17.2
9	122.34	31.5	25.5	43.5	-18.0
10	94.16	21.5	25.3	43.5	-18.2
11	176.99	23.3	23.5	43.5	-20.0
12	98.93	20.2	13.1	43.5	-30.4