

APPENDIX H

Graphs of EMI Measurement

CONDUCTED EMI (0.15 MHz to 30 MHz)

Graph 1:	Active Line,	Tuned to 30 MHz
Graph 2:	Neutral Line,	Tuned to 30 MHz
Graph 3:	Active Line,	Tuned to 475 MHz
Graph 4:	Neutral Line,	Tuned to 475MHz
Graph 5:	Active Line,	Tuned to 960 MHz
Graph 6:	Neutral Line,	Tuned to 960 MHz

RADIATED EMI (30 MHz to 1000 MHz)

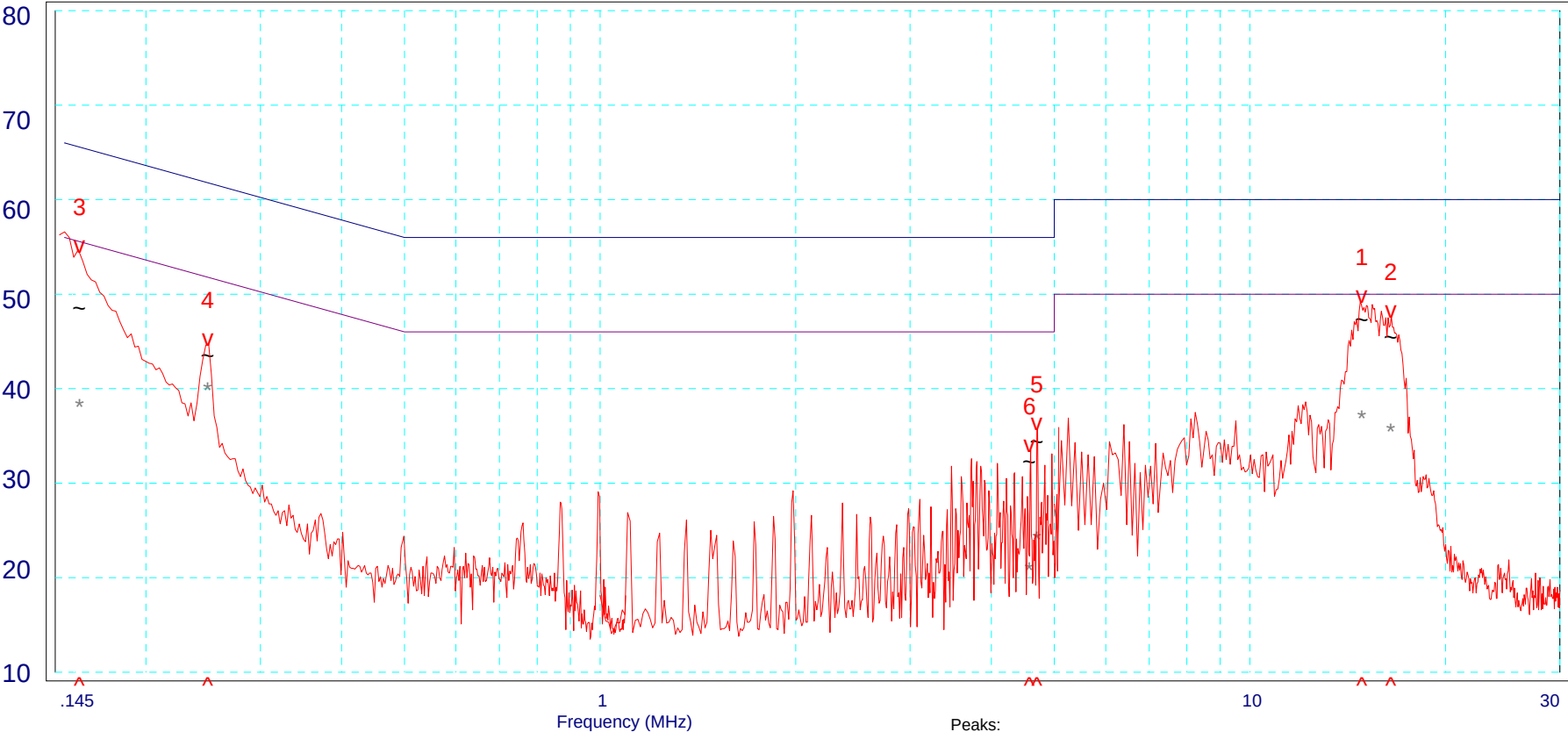
Graph 7:	Vertical Polarisation,	Tuned to 30 MHz
Graph 8:	Horizontal Polarisation	Tuned to 30 MHz
Graph 9:	Vertical Polarisation,	Tuned to 475 MHz
Graph 10:	Horizontal Polarisation	Tuned to 475 MHz
Graph 11:	Vertical Polarisation,	Tuned to 960 MHz
Graph 12:	Horizontal Polarisation	Tuned to 960 MHz

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FCC Class B
Conducted Emissions (dBuV)

Job No:M110933 p:\PCFM110933_1.PCF
Test Date: 06/10/2011

GRAPH No. 1



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 30 MHz
Conducted Emissions - Active line

Peaks:

No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	14.87	49.3	46.7	60.0	-13.3	36.2	50.0	-13.8
2	16.48	47.8	44.8	60.0	-15.2	34.8	50.0	-15.2
3	0.158	54.6	47.9	65.6	-17.7	37.4	55.6	-18.2
4	0.249	44.7	42.9	61.8	-18.9	39.2	51.8	-12.6
5	4.701	35.8	33.8	56.0	-22.2	23.4	46.0	-22.6
6	4.578	33.5	31.7	56.0	-24.3	20.1	46.0	-25.9

Limits:
FCC_BQPN FCC PART 15 CLASS B CONDUCTED QP LIMITS (2002)
FCC_BAVN FCC PART 15 CLASS B CONDUCTED AVERAGE LIMIT (2002)

Legend:
— Active Line

Ver 5.5 Build 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
Phone+(613) 9365 1000 Fax+(613) 9331 7455

Source:
M1109337 , 8 , 9

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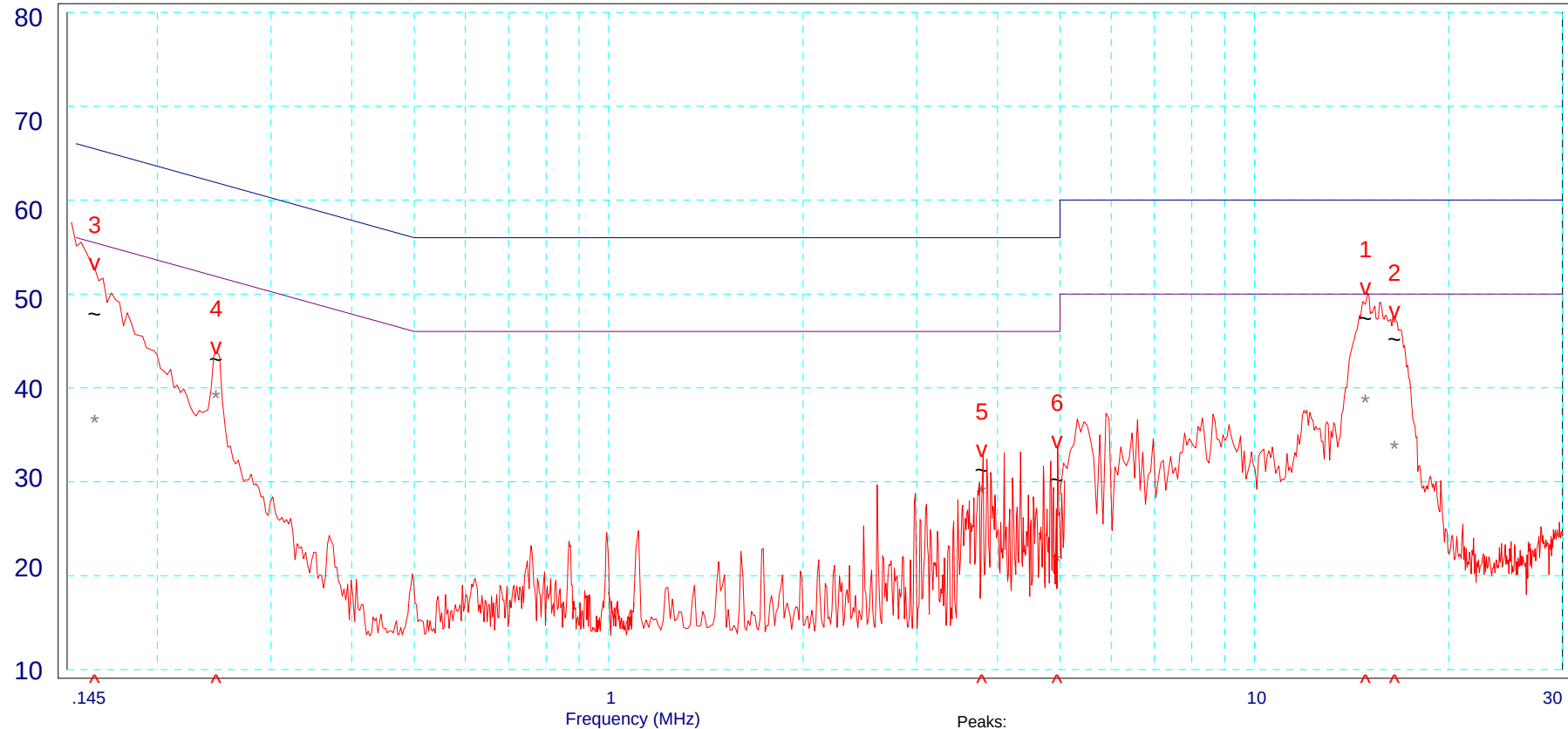
FCC Class B
Conducted Emissions (dBuV)

Job No:M110933

p:\PCFM110933_2.PCF

Test Date: 06/10/2011

GRAPH No. 2



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 30 MHz
Conducted Emissions - Neutral line

Limits:
FCC_BQPN FCC PART 15 CLASS B CONDUCTED QP LIMITS (2002)
FCC_BAVN FCC PART 15 CLASS B CONDUCTED AVERAGE LIMIT (2002) Legend:
Neutral Line

Ver 5.5 Build 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110933d0 ,11 ,12

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Peaks:

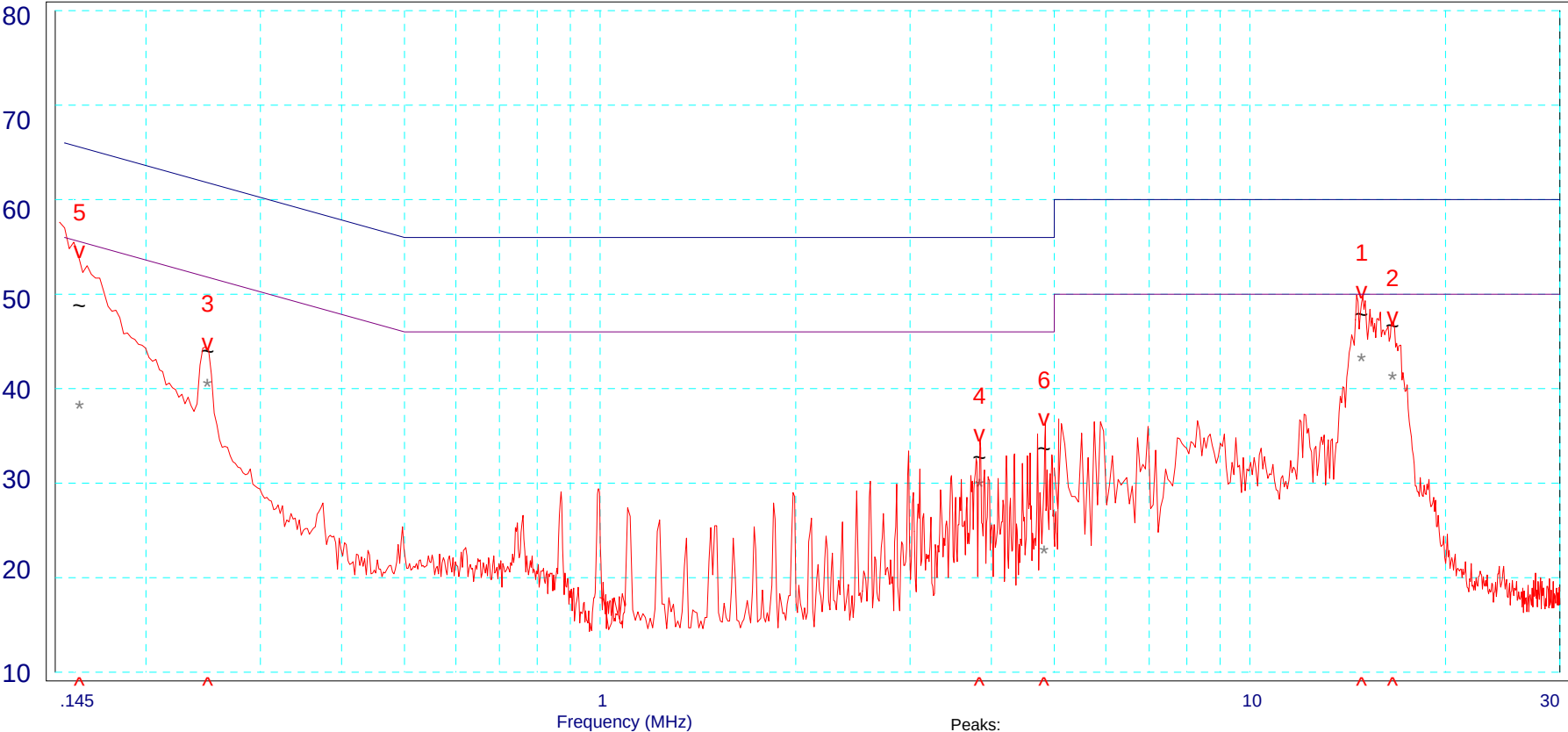
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	14.86	50.1	46.8	60.0	-13.2	37.8	50.0	-12.2
2	16.48	47.6	44.6	60.0	-15.4	32.9	50.0	-17.1
3	0.160	52.8	47.2	65.5	-18.3	35.7	55.5	-19.8
4	0.247	43.8	42.4	61.9	-19.5	38.3	51.9	-13.6
5	3.783	32.9	30.6	56.0	-25.4	28.1	46.0	-17.9
6	4.948	33.8	29.6	56.0	-26.4	20.9	46.0	-25.1

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FCC Class B
Conducted Emissions (dBuV)

Job No:M110933 p:\PCFM110933_3.PCF
Test Date: 06/10/2011

GRAPH No. 3



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 475 MHz
Conducted Emissions - Active line

Limits:
FCC_BQPN FCC PART 15 CLASS B CONDUCTED QP LIMITS (2002)
FCC_BAVN FCC PART 15 CLASS B CONDUCTED AVERAGE LIMIT (2002)

Legend:
— Active Line

Ver 5.5 Build 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110933d13 ,14 ,15

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Peaks:								
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	14.86	49.8	47.3	60.0	-12.7	42.3	50.0	-7.7
2	16.58	47.0	46.0	60.0	-14.0	40.3	50.0	-9.7
3	0.249	44.3	43.4	61.8	-18.4	39.6	51.8	-12.2
4	3.836	34.6	32.2	56.0	-23.8	29.0	46.0	-17.0
5	0.158	54.0	48.2	65.6	-17.4	37.2	55.6	-18.4
6	4.823	36.3	33.0	56.0	-23.0	21.9	46.0	-24.1

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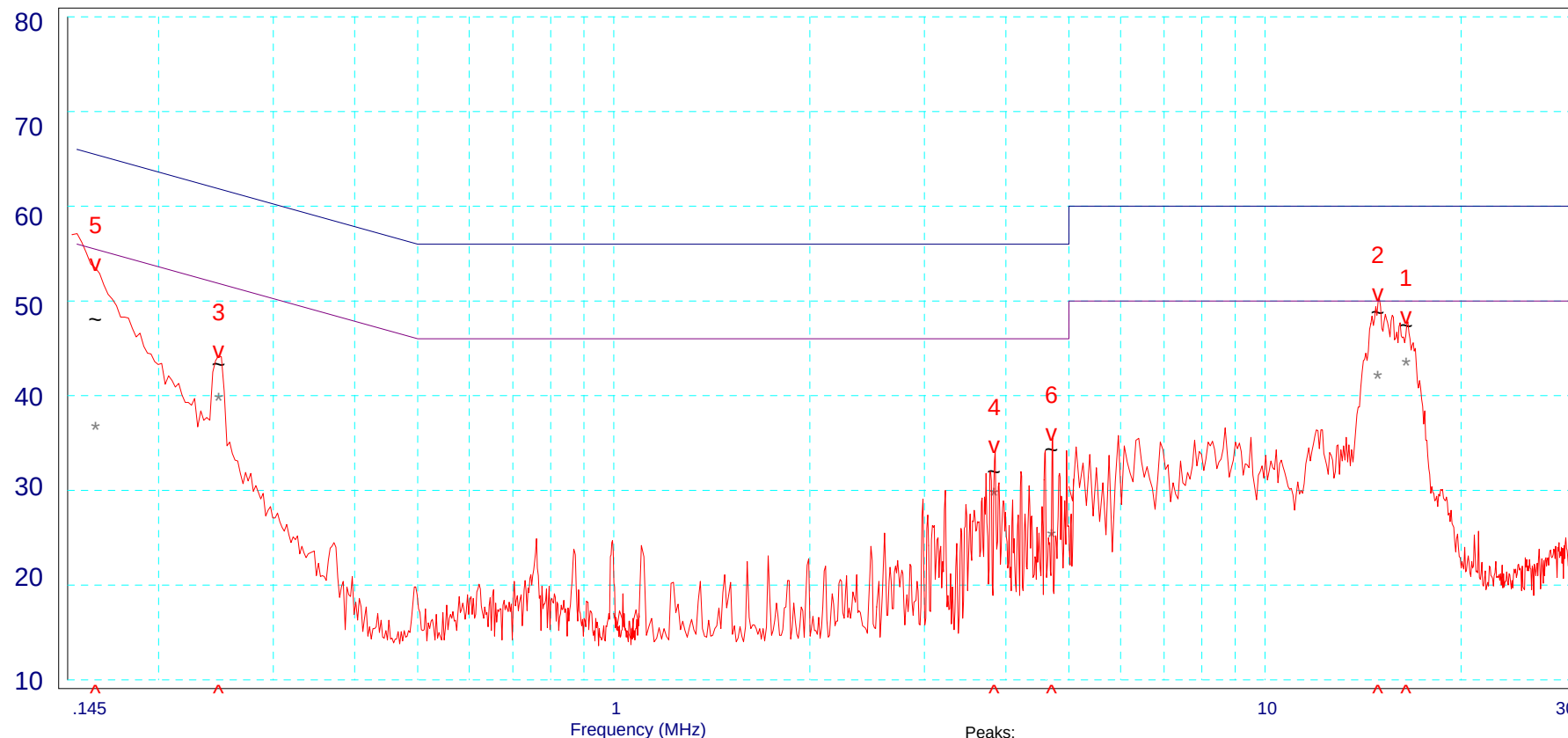
FCC Class B
Conducted Emissions (dBuV)

Job No:M110933

p:\PCFM110933_4.PCF

Test Date: 06/10/2011

GRAPH No. 4



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 475 MHz
Conducted Emissions - Neutral line

Limits:
FCC_BQPN FCC PART 15 CLASS B CONDUCTED QP LIMITS (2002)
FCC_BAVN FCC PART 15 CLASS B CONDUCTED AVERAGE LIMIT (2002) — Neutral Line

Ver 5.5 Build 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110933d6 ,17 ,18

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Peaks:

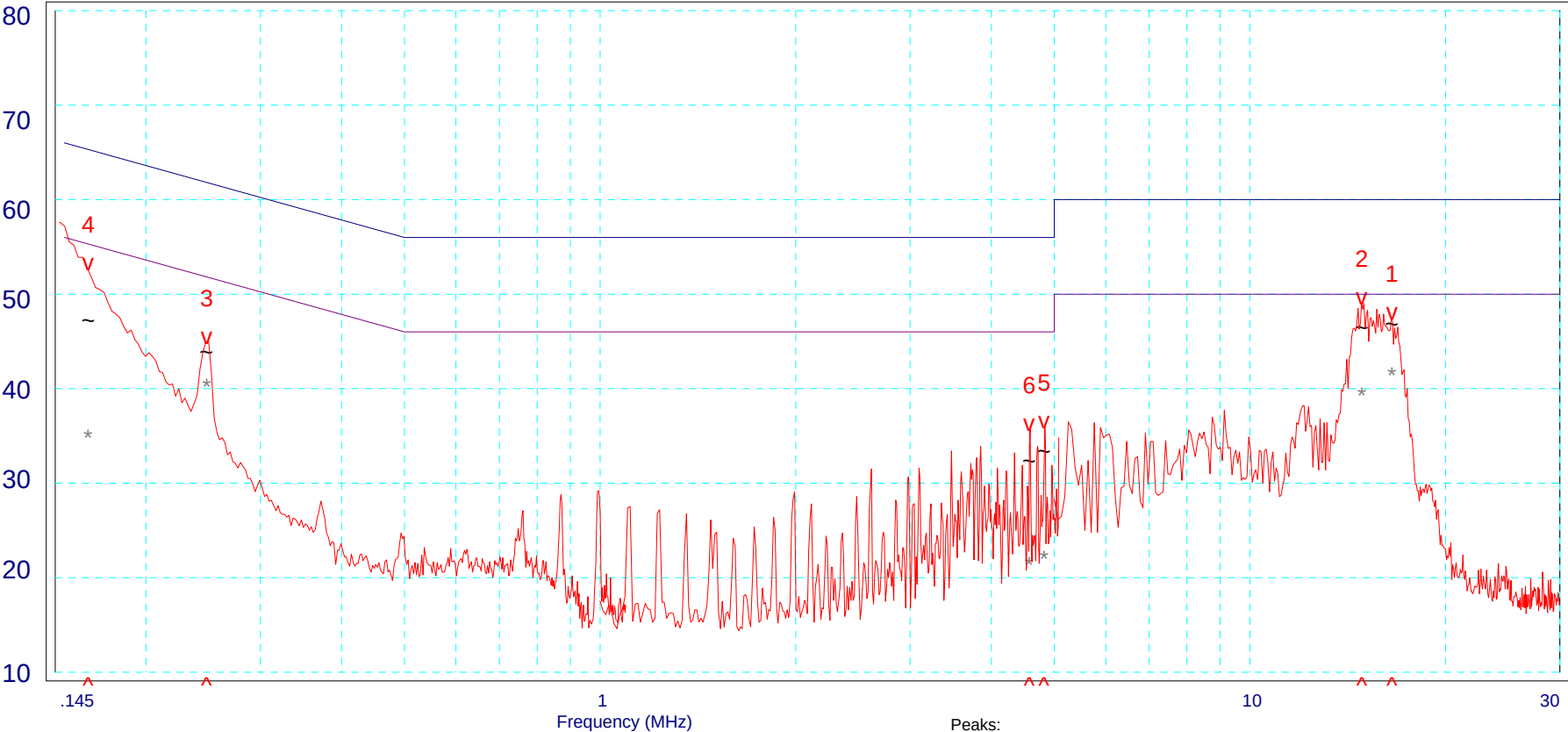
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	16.47	47.8	46.8	60.0	-13.2	42.5	50.0	-7.5
2	14.90	50.2	48.2	60.0	-11.8	41.1	50.0	-8.9
3	0.247	44.2	42.7	61.8	-19.1	38.8	51.8	-13.0
4	3.837	34.2	31.4	56.0	-24.6	28.8	46.0	-17.2
5	0.160	53.4	47.4	65.5	-18.1	35.8	55.5	-19.7
6	4.700	35.5	33.7	56.0	-22.3	24.4	46.0	-21.6

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FCC Class B
Conducted Emissions (dBuV)

Job No:M110933 p:\PCFM110933_5.PCF
Test Date: 06/10/2011

GRAPH No. 5



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 960 MHz
Conducted Emissions - Active line

Limits:
FCC_BQPN FCC PART 15 CLASS B CONDUCTED QP LIMITS (2002)
FCC_BAVN FCC PART 15 CLASS B CONDUCTED AVERAGE LIMIT (2002)

Legend:
— Active Line

Ver 5.5 Build 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

Source:
M110933d , 2 , 3

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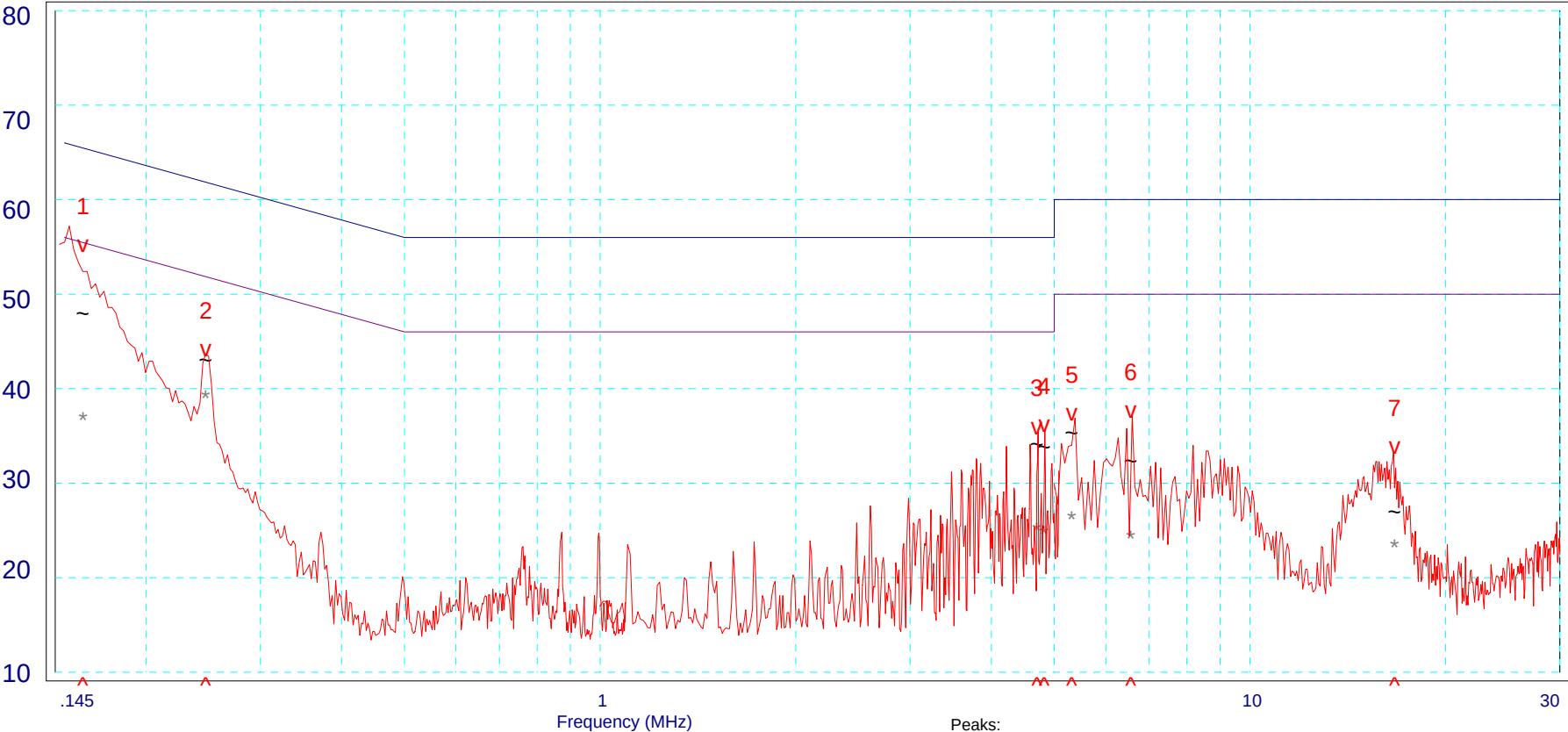
Peaks:							
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)
1	16.55	47.6	46.2	60.0	-13.8	40.8	50.0
2	14.87	49.1	45.9	60.0	-14.1	38.6	50.0
3	0.248	44.9	43.3	61.8	-18.5	39.6	51.8
4	0.163	52.8	46.6	65.3	-18.7	34.2	55.3
5	4.822	36.0	32.8	56.0	-23.2	21.4	46.0
6	4.576	35.8	31.8	56.0	-24.2	20.7	46.0

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FCC Class B
Conducted Emissions (dBuV)

Job No:M110933 p:\PCFM110933_6.PCF
Test Date: 06/10/2011

GRAPH No. 6



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 960 MHz
Conducted Emissions - Neutral line

Limits:
FCC_BQPN FCC PART 15 CLASS B CONDUCTED QP LIMITS (2002)
FCC_BAVN FCC PART 15 CLASS B CONDUCTED AVERAGE LIMIT (2002)

Legend:
— Neutral Line

Ver 5.5 Build 160
conducted lab 2
t:L0190912 c1:C3990112 c2:C1590112 p:NONE a:L0180812
Site ID: Room#2,176 Harrick Rd, Keilor Park,Vic
Test Officer:Matthew Grimwood

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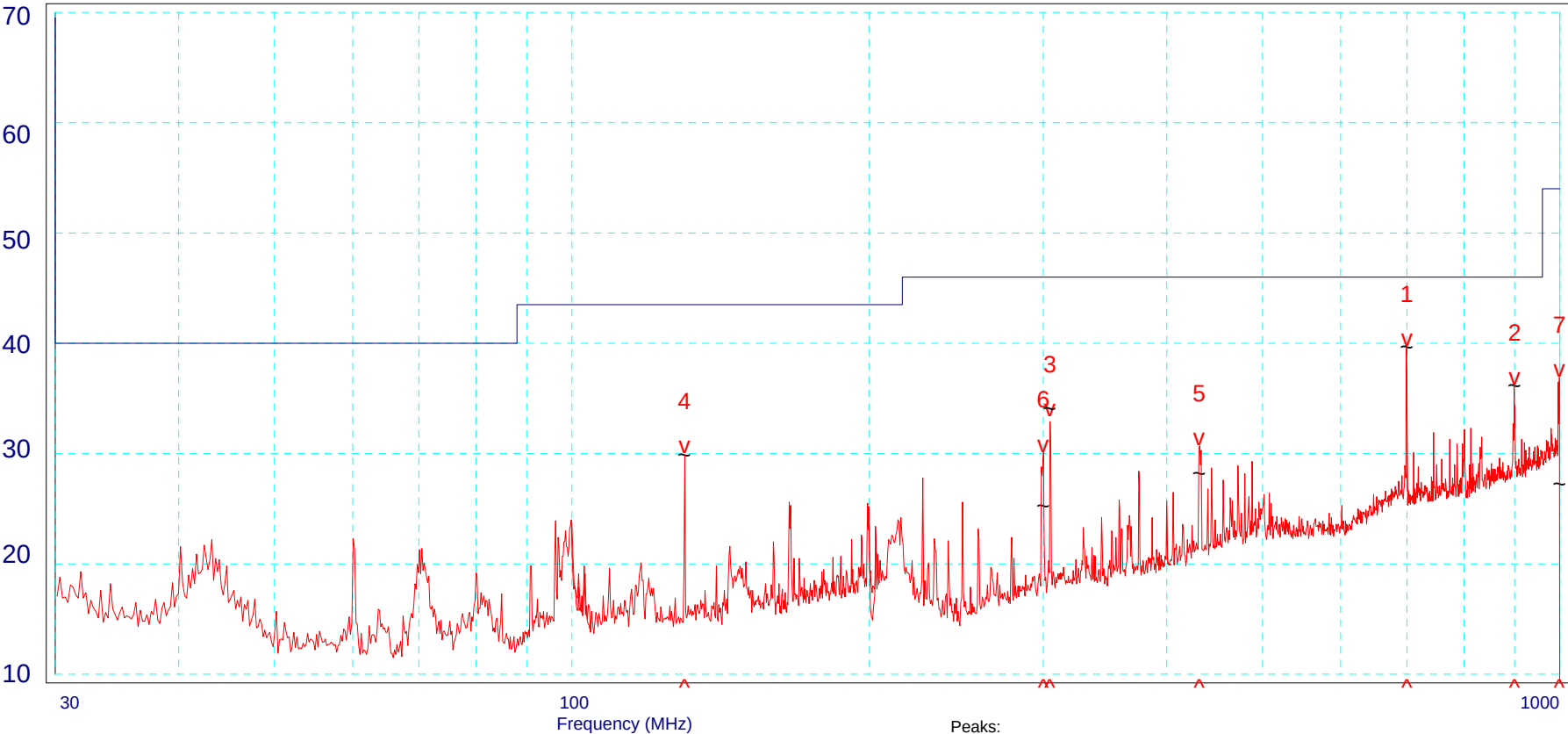
No	Freq (MHz)	Peak (dBuV)	QP Val (dBuV)	FCC_BQPN (dBuV)	dL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	dL2 (dB)
1	0.160	54.7	47.3	65.5	-18.2	36.0	55.5	-19.5
2	0.247	43.6	42.4	61.9	-19.5	38.4	51.9	-13.5
3	4.701	35.4	33.5	56.0	-22.5	24.3	46.0	-21.7
4	4.824	35.7	33.2	56.0	-22.8	24.0	46.0	-22.0
5	5.319	36.8	34.7	60.0	-25.3	25.5	50.0	-24.5
6	6.556	37.2	31.7	60.0	-28.3	23.5	50.0	-26.5
7	16.70	33.3	26.4	60.0	-33.6	22.6	50.0	-27.4

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FCC Class B
Radiated Emissions (dBuV/m)
= Ambient

Job No:M110933 p:\PCFM110933_7.PCF
Test Date: 05/10/2011

GRAPH No. 7



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 30 MHz
Radiated Emissions - Vertical

Limits:
FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
— Vertical Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Rob Weir

Source:
M110933B5 ,36 ,46 ,47 ,48

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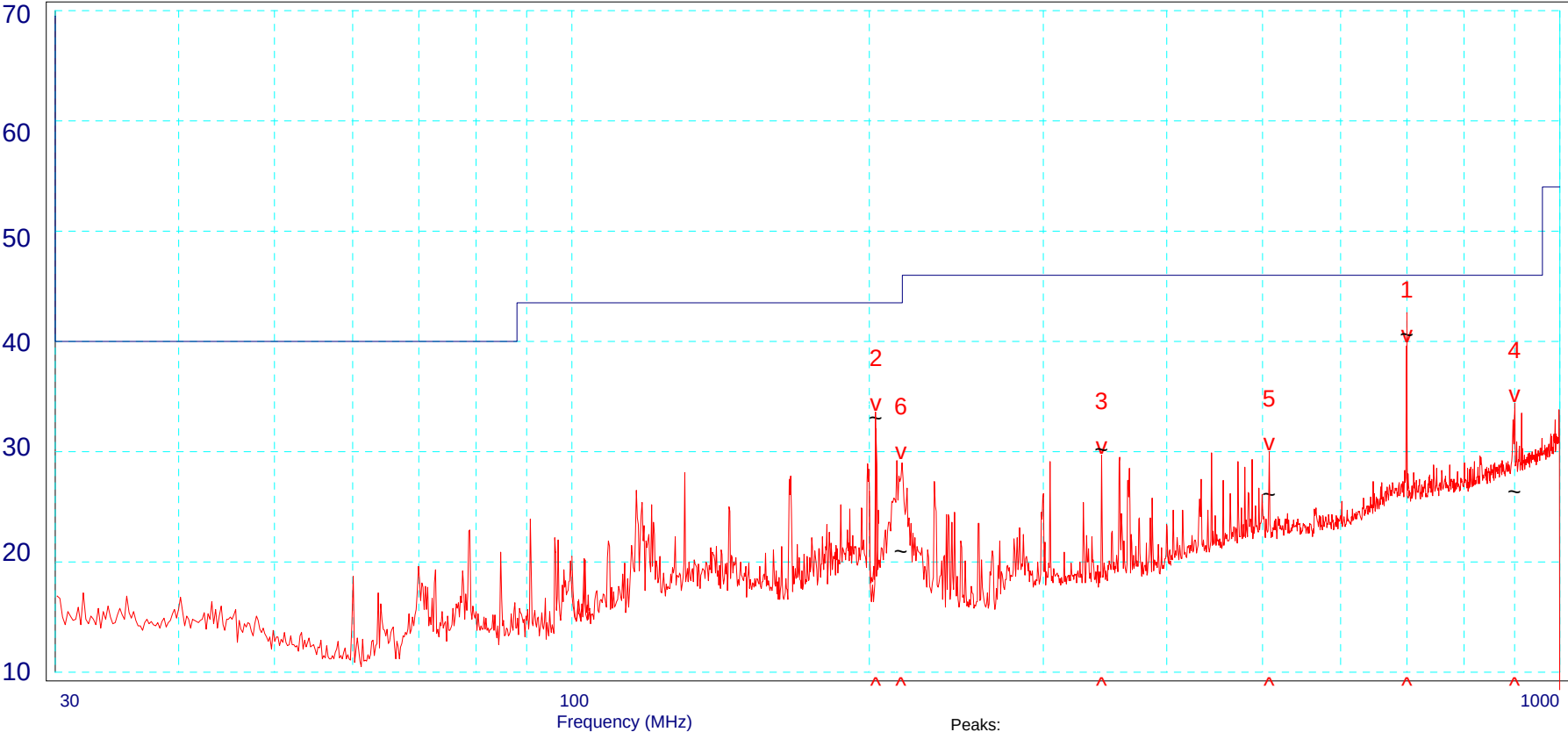
Peaks:					
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)	dL1 (dB)
1	699.99	39.6	38.9	46.0	-7.1
2	899.98	36.2	35.4	46.0	-10.6
3	304.64	33.3	33.3	46.0	-12.7
4	130.01	29.9	29.1	43.5	-14.4
5	431.43	30.6	27.4	46.0	-18.6
6	299.98	30.1	24.5	46.0	-21.5
7	998.97	36.9	26.5	54.0	-27.5

EMC Technologies Pty. Ltd. - Global Product Certification

FCC Class B
Radiated Emissions (dBUV/m)
= Ambient

Job No:M110933 p:\PCFM110933_8.PCF
Test Date: 05/10/2011

GRAPH No. 8



Peaks:

No	Freq (MHz)	Peak (dBUV/m)	QP Val	FCC15209 (dBUV/m)	dL1 (dB)
1	700.01	39.8	39.8	46.0	-6.2
2	203.09	33.6	32.3	43.5	-11.2
3	343.64	29.8	29.4	46.0	-16.6
4	899.79	34.4	25.6	46.0	-20.4
5	507.76	30.0	25.4	46.0	-20.6
6	215.30	29.3	20.2	43.5	-23.3

Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 30 MHz
Radiated Emissions - Horizontal

Limits:
FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
— Horizontal Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Rob Weir

Source:
M110933B3 ,34 ,43 ,44 ,45

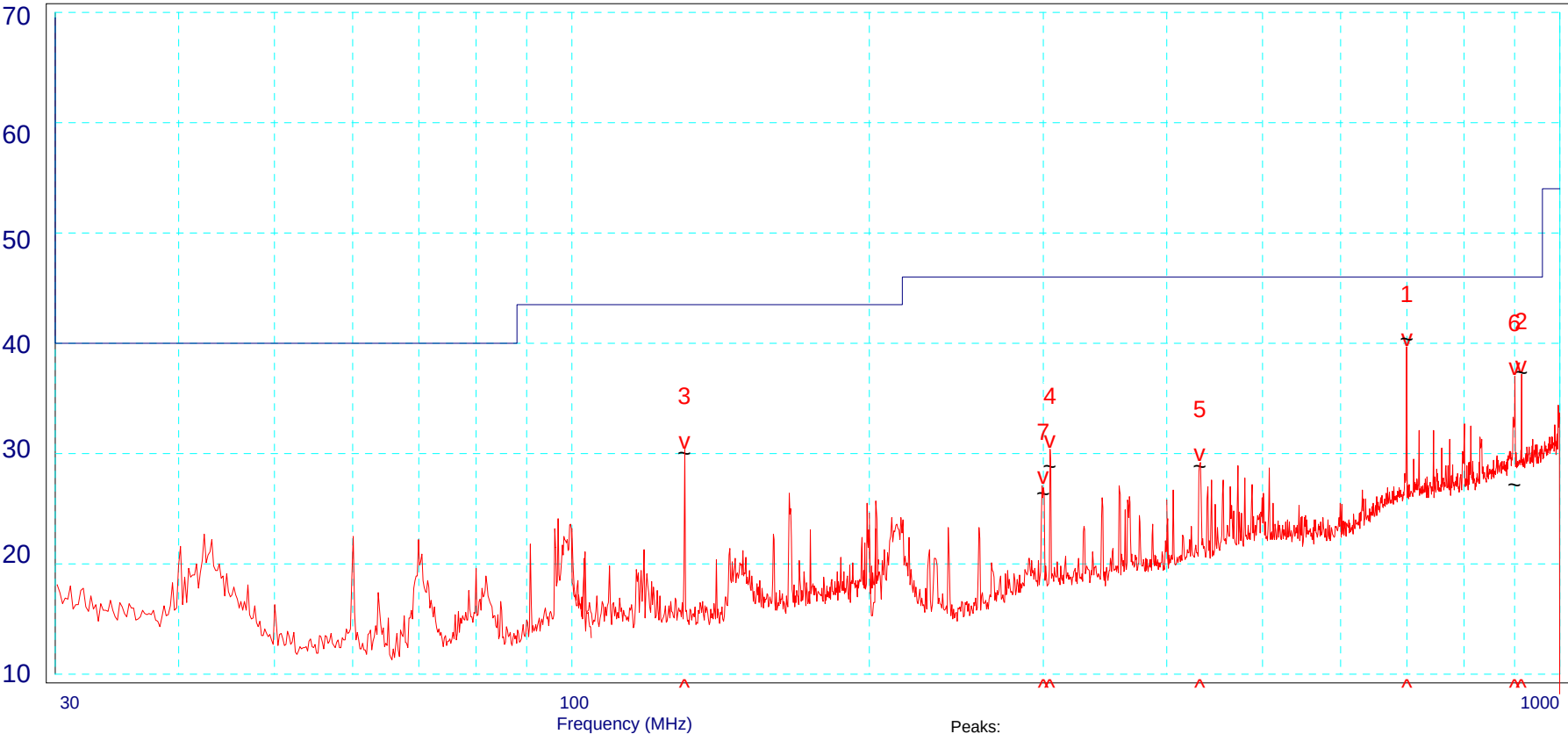
EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
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FCC Class B
Radiated Emissions (dBuV/m)
= Ambient

Job No:M110933 p:\PCFM110933_9.PCF
Test Date: 05/10/2011

GRAPH No. 9



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 475 MHz
Radiated Emissions - Vertical

Limits: FCC15209 FCC PART 15.209 3mtr LMTS
Legend: — Vertical Emissions
Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Rob Weir

EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
Phone+(613) 9365 1000 Fax+(613) 9331 7455

Peaks:

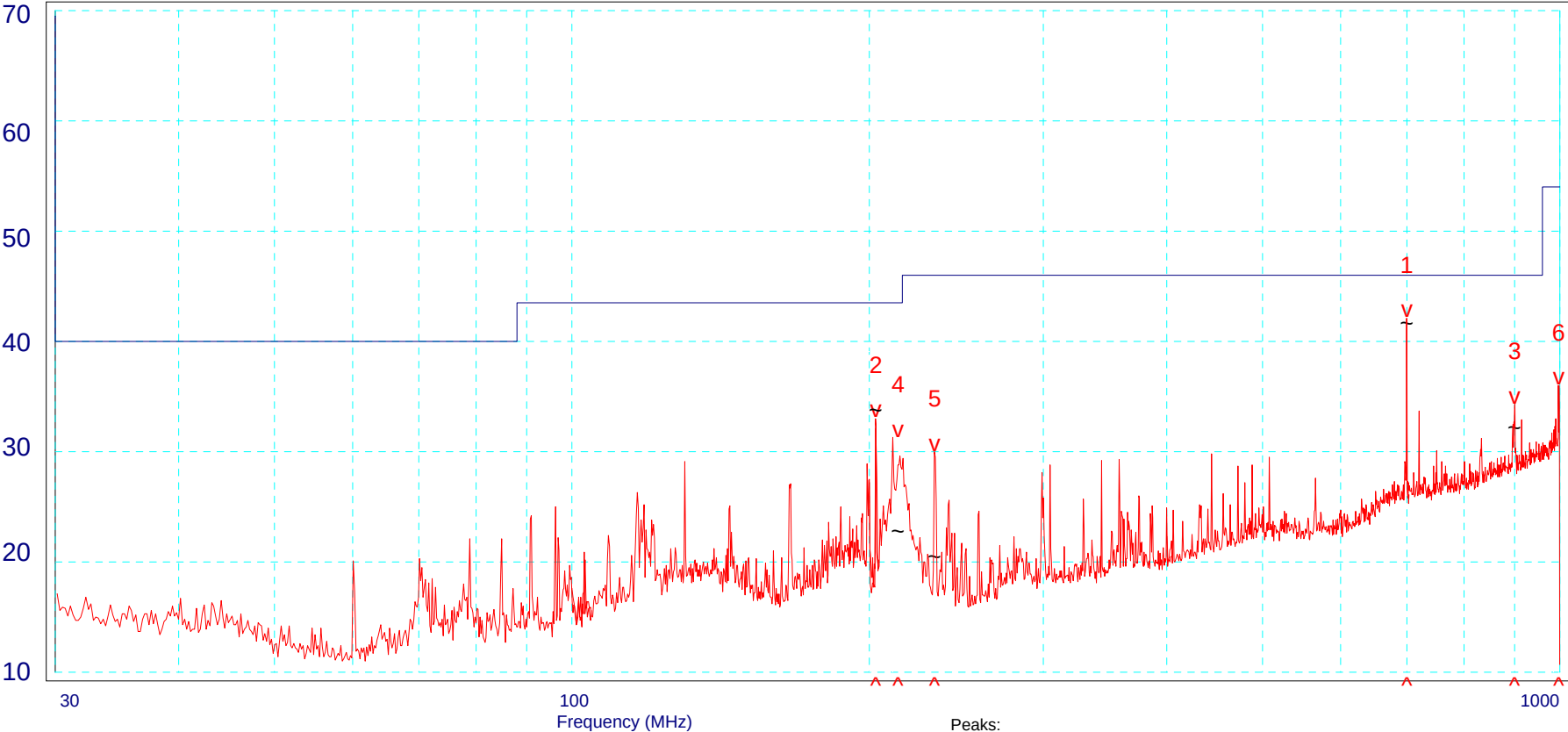
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)	dL1 (dB)
1	700.00	39.6	39.6	46.0	-6.4
2	913.92	37.2	36.6	46.0	-9.4
3	130.01	30.4	29.3	43.5	-14.2
4	304.64	30.4	28.0	46.0	-18.0
5	432.01	29.2	28.0	46.0	-18.0
6	899.63	37.0	26.4	46.0	-19.6
7	299.99	27.2	25.6	46.0	-20.4

EMC Technologies Pty. Ltd. - Global Product Certification

FCC Class B
Radiated Emissions (dBuV/m)
= Ambient

Job No:M110933 p:\PCFM110933_10.PCF
Test Date: 05/10/2011

GRAPH No. 10



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 475 MHz
Radiated Emissions - Horizontal

Limits: FCC15209 FCC PART 15.209 3mtr LMTS
Legend: — Horizontal Emissions
Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Rob Weir

EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
Phone+(613) 9365 1000 Fax+(613) 9331 7455

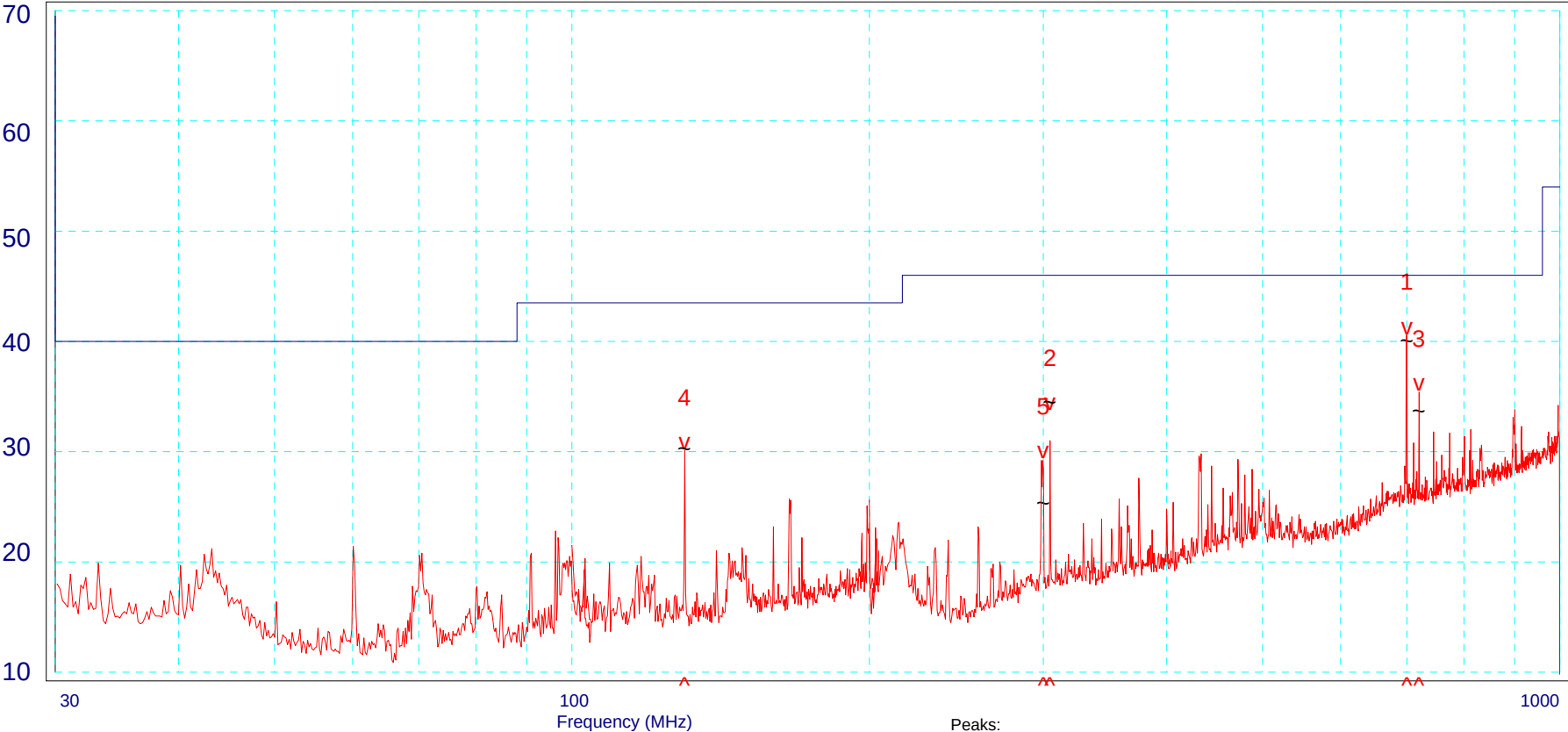
Peaks:					
No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)	dL1 (dB)
1	699.99	42.1	40.9	46.0	-5.1
2	203.09	33.1	33.0	43.5	-10.5
3	899.99	34.3	31.4	46.0	-14.6
4	213.87	31.3	22.0	43.5	-21.5
5	232.95	30.0	19.7	46.0	-26.3
6	997.20	36.0	-70.6	54.0	-124.6

EMC Technologies Pty. Ltd. - Global Product Certification

FCC Class B
Radiated Emissions (dBuV/m)
= Ambient

Job No:M110933 p:\PCFM110933_11.PCF
Test Date: 05/10/2011

GRAPH No. 11



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 960 MHz
Radiated Emissions - Vertical

Limits: FCC15209 FCC PART 15.209 3mtr LMTS
Legend: — Vertical Emissions
Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Rob Weir

EMC Technologies (Melbourne) 176 Harrick Rd, Keilor Park, 3042, Vic, Australia
Phone+(613) 9365 1000 Fax+(613) 9331 7455

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	QP Val	FCC15209 (dBuV/m)	dL1 (dB)
1	700.00	40.6	39.3	46.0	-6.7
2	304.64	33.7	33.7	46.0	-12.3
3	720.01	35.5	32.9	46.0	-13.1
4	130.00	30.1	29.5	43.5	-14.0
5	299.98	29.3	24.6	46.0	-21.4

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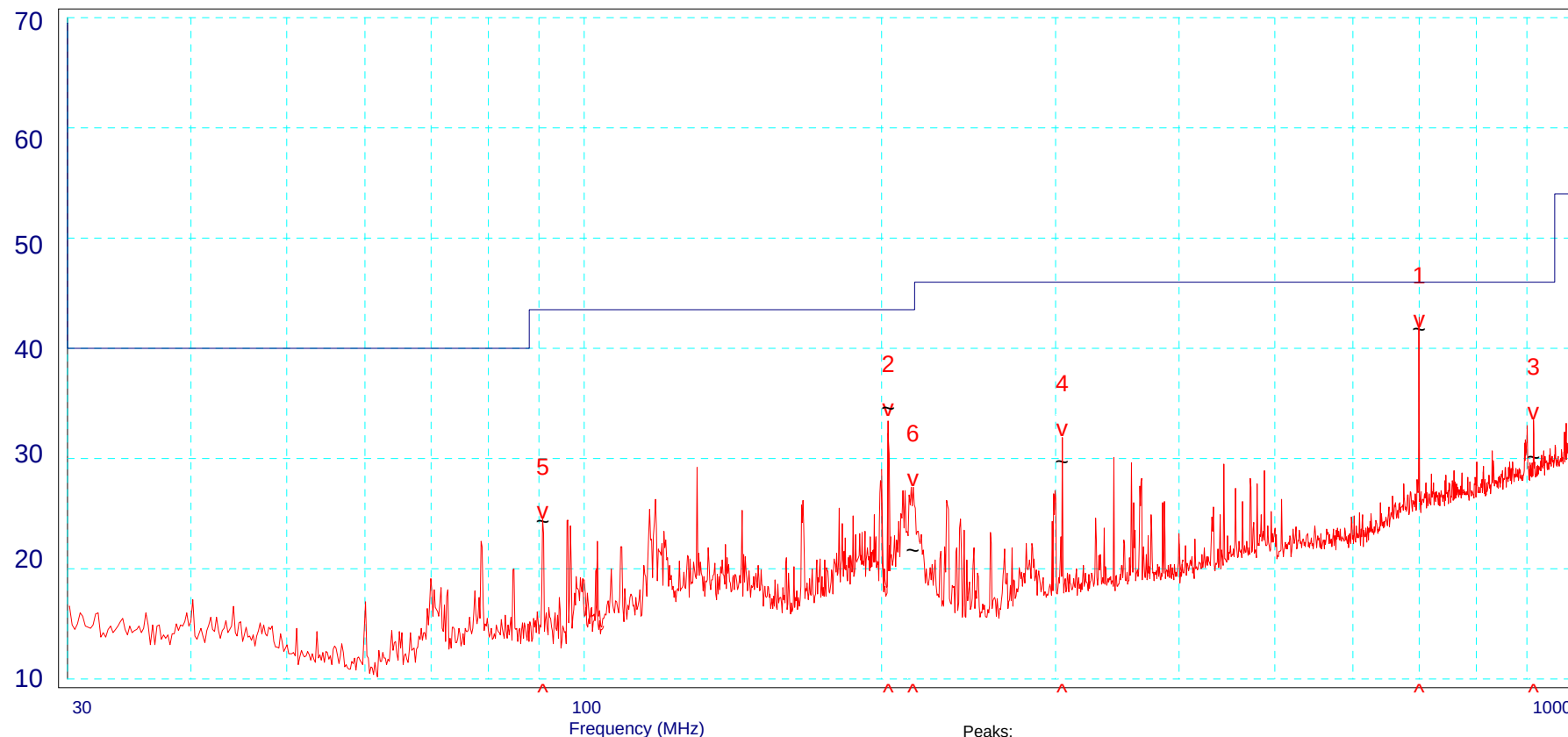
FCC Class B
Radiated Emissions (dBuV/m)
= Ambient

Job No:M110933

p:\PCFM110933_12.PCF

Test Date: 05/10/2011

GRAPH No. 12



Radixon Group
G3 Series Radio Receiver - PCI
Tuned to 960 MHz
Radiated Emissions - Horizontal

Limits:
FCC15209 FCC PART 15.209 3mtr LMTS

Legend:
Horizontal Emissions

Ver 5.5 Build 160
3m setup for Room 12 ALSE
t:A1370112_10M c1:SILVER+421 c2:C3760911 p:NONE a:NONE
Site ID: Room#12(iOATS),176 Harrick Rd, Keilor Park,Vic
Test Officer:Rob Weir

Source:
M11093325,26,52,53,54

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