

EMC Technologies Report Number: M040535_Cert_G3_Receiver**APPENDIX G – Graphs of EMI Measurement****CONDUCTED EMI**

Graph 1:	Active Line,	0.15 MHz - 30 MHz
Graph 2:	Neutral Line,	0.15 MHz - 30 MHz

RADIATED EMI

Graph 3:	Vertical Polarisation,	30 MHz - 1000 MHz
Graph 4:	Horizontal Polarisation	30 MHz - 1000 MHz
Graph 5:	Vertical Polarisation,	30 MHz - 1000 MHz
Graph 6:	Horizontal Polarisation	30 MHz - 1000 MHz
Graph 7:	Vertical Polarisation,	30 MHz - 1000 MHz
Graph 8:	Horizontal Polarisation	30 MHz - 1000 MHz
Graph 9:	Vertical Polarisation,	30 MHz - 1000 MHz
Graph 10:	Horizontal Polarisation	30 MHz - 1000 MHz
Graph 11:	Vertical Polarisation,	30 MHz - 1000 MHz
Graph 12:	Horizontal Polarisation	30 MHz - 1000 MHz
Graph 13:	Vertical Polarisation,	1000 MHz - 2000 MHz
Graph 14:	Horizontal Polarisation	1000 MHz - 2000 MHz

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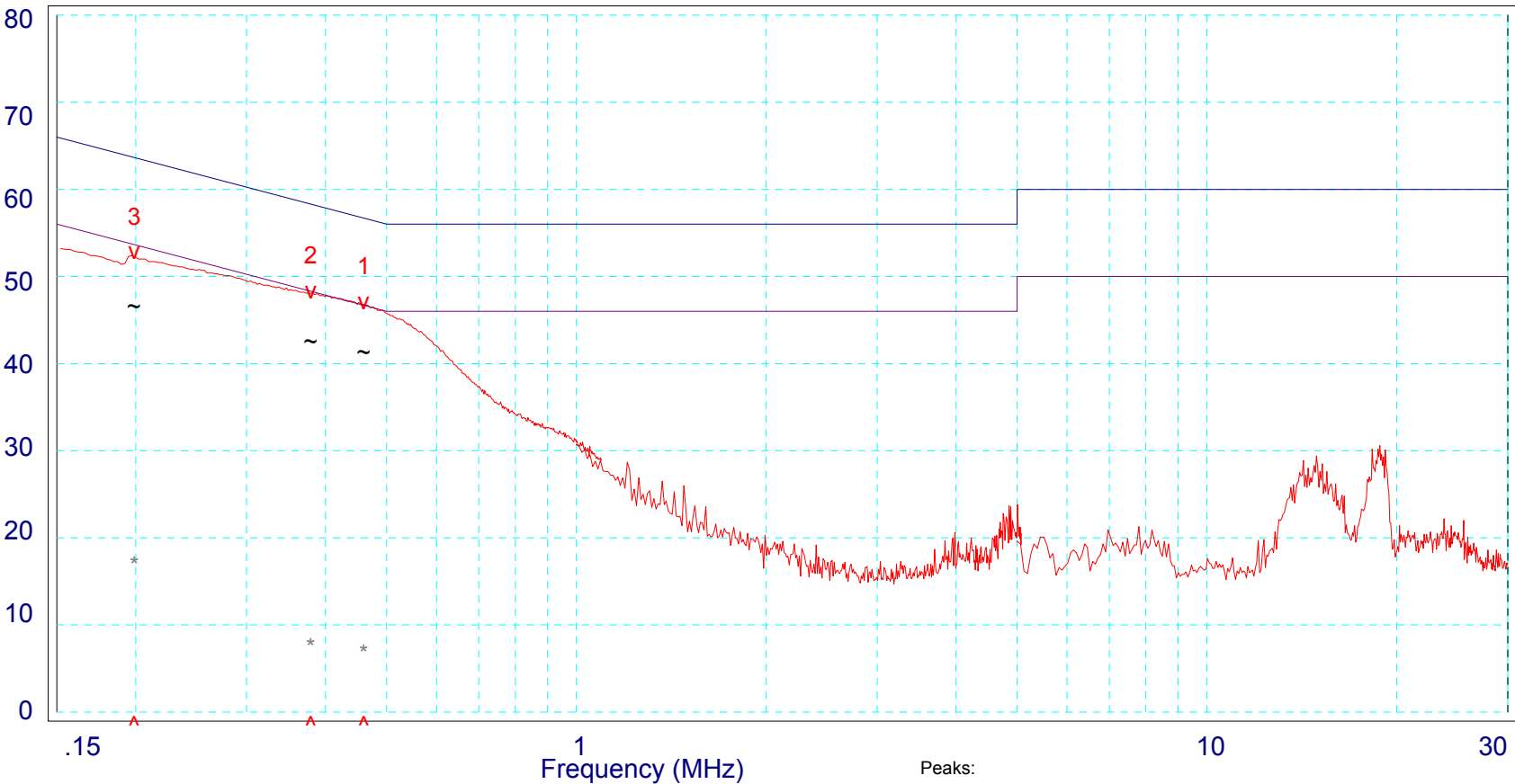
Conducted Emissions (dBuV)

Job No:M040535

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Test Date: 27-05-04

GRAPH No. 1



ROBOTRON
G3 WINRADIO

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) Active Line

Ver 5.5 Build 93
conducted lab 1
t:L0190405 c1:C1450505 c2:C1560105 p:NONE a:L0180704
Site ID: Room#3,57 Assembly Drv. Tullamarine, VIC
Test Officer:Janath Janaka

Source:
m040535c 19 20 21

Peaks:								
No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_BQPN (dBuV)	NdL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	NdL2 (dB)
1	0.460	46.7	40.9	56.7	-15.8	6.3	46.7	-40.4
2	0.379	48.0	42.1	58.3	-16.2	7.0	48.3	-41.3
3	0.199	52.4	46.1	63.7	-17.5	16.4	53.7	-37.3

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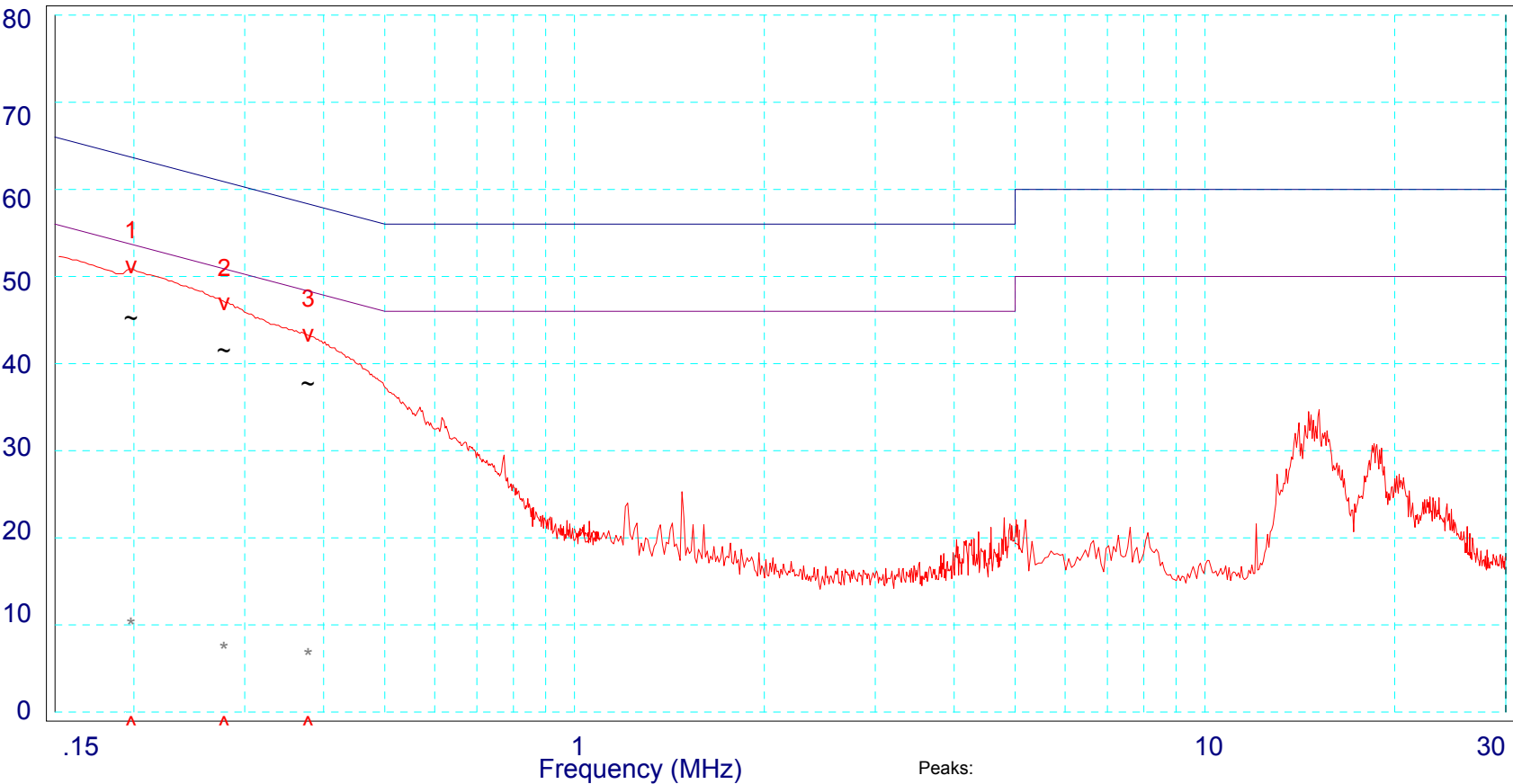
Conducted Emissions (dBuV)

Job No:M040535

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Test Date: 27-05-04

GRAPH No. 2



ROBOTRON
G3 WINRADIO

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 93
conducted lab 1
t:L0190405 c1:C1450505 c2:C1560105 p:NONE a:L0180704
Site ID: Room#3,57 Assembly Drv. Tullamarine, VIC
Test Officer:Janath Janaka

Source:
m040535c 22 23 24

Peaks:							
No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_BQPN (dBuV)	NdL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)
1	0.198	50.9	44.7	63.7	-19.0	9.4	53.7
2	0.278	46.6	41.1	60.9	-19.8	6.6	50.9
3	0.378	43.0	37.2	58.3	-21.1	5.9	48.3

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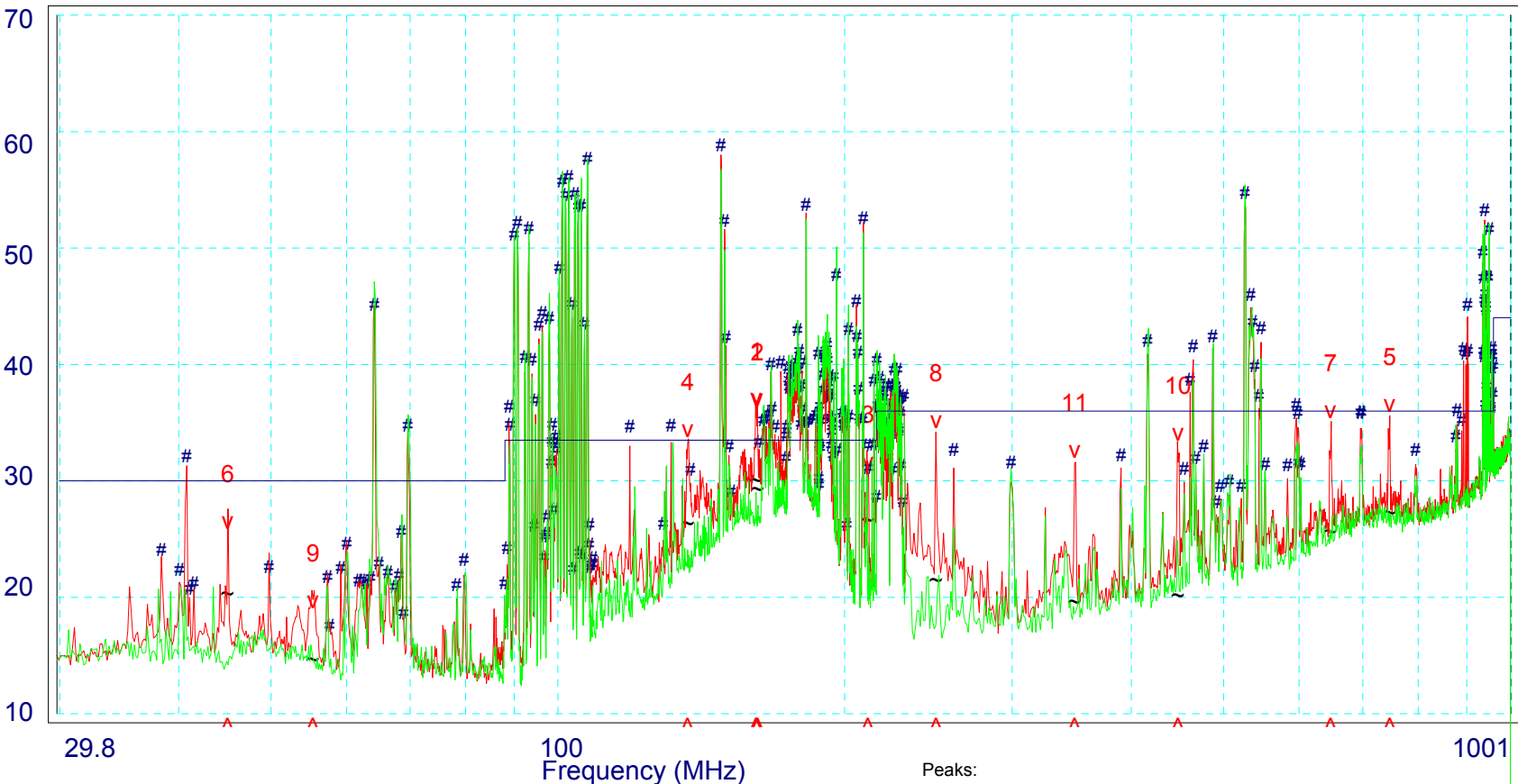
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Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535 r:\PCFM040535F_3.PCF

Test Date: 24-05-04

GRAPH No. 3



ROBOTRON
G3 WINRADIO
Configuration 1: Tuned freq.: 9kHz
Radiated Emissions - Vertical Polarity

Limits:
FCCB-10 FCC CLASS B RAD 10M LIMITS

Legend:
Vertical Ambients
Vertical Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

Source:
m040535r 5 6 7 8 9 18 19 20
m040535r 32 34 35 36 37 21 22 23

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	161.51	36.3	29.2	33.5	-4.3
2	162.04	36.2	28.4	33.5	-5.1
3	211.69	30.8	25.8	33.5	-7.7
4	136.88	33.6	25.5	33.5	-8.0
5	746.89	35.8	26.4	36.0	-9.6
6	45.02	25.8	19.5	30.0	-10.5
7	647.46	35.3	24.8	36.0	-11.2
8	249.39	34.4	20.6	36.0	-15.4
9	55.31	18.9	13.8	30.0	-16.2
10	447.67	33.3	19.3	36.0	-16.7
11	348.73	31.8	18.8	36.0	-17.3

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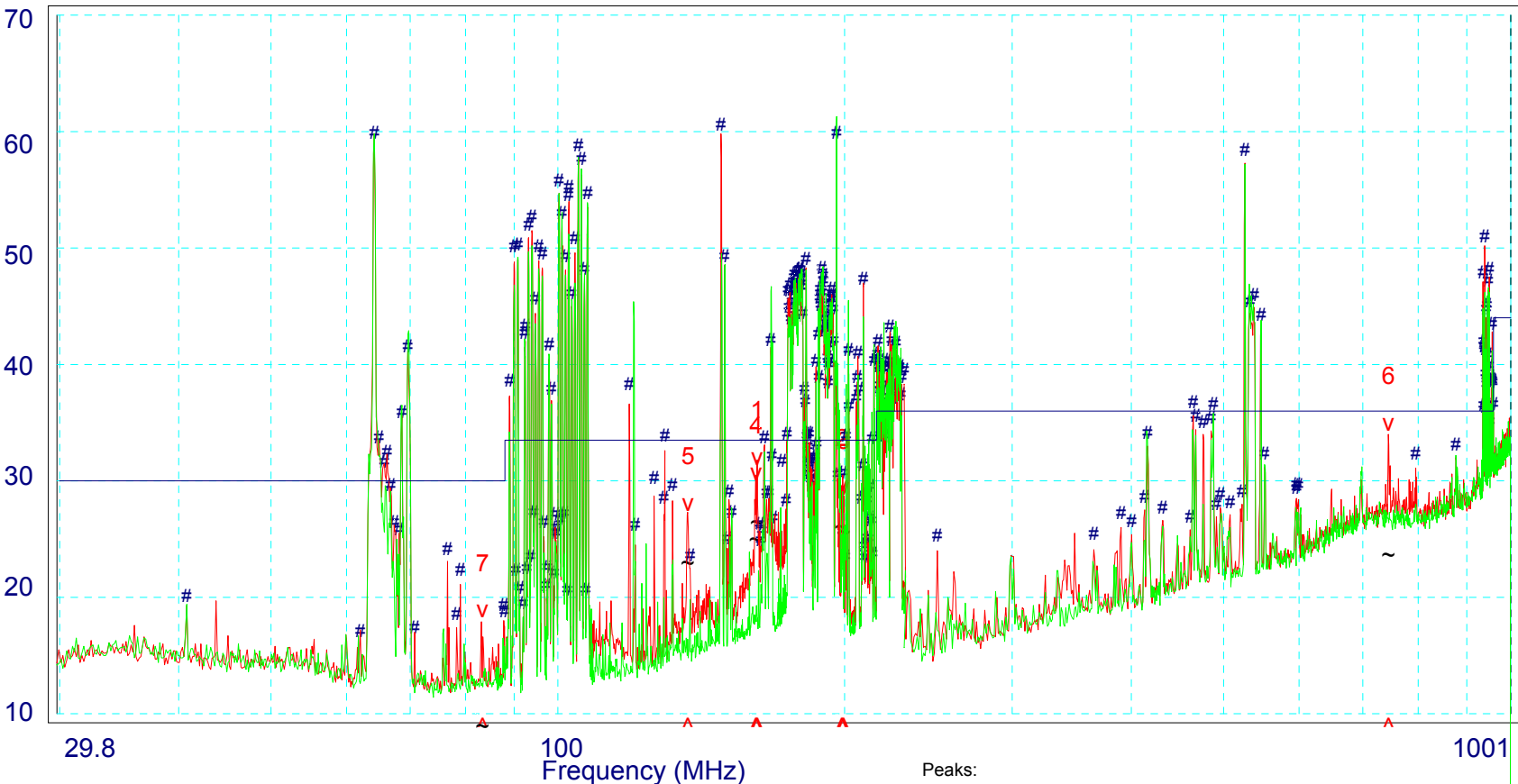
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Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535 r:\PCFM040535F_4.PCF

Test Date: 24-05-04

GRAPH No. 4



ROBOTRON
G3 WINRADIO
Configuration 1: Tuned freq.: 9kHz
Radiated Emissions - Horizontal Polarity

Limits:
FCCB-10 FCC CLASS B RAD 10M LIMITS

Legend:
Horizontal Ambients
Horizontal Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

Source:
m040535r 10 11 12 13 14 15 16 17
m040535r 27 28 29 30 31 24 25 26

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	161.94	31.2	25.6	33.5	-7.9
2	198.80	28.9	25.2	33.5	-8.3
3	199.53	28.6	24.7	33.5	-8.8
4	161.51	29.9	24.1	33.5	-9.4
5	136.92	27.3	22.1	33.5	-11.4
6	744.74	34.2	22.8	36.0	-13.2
7	83.38	18.1	8.1	30.0	-21.9

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Sydney----- 16,6 Gladstone Rd Castle Hill, 2154, NSW, Australia Ph+(612) 9899 4599 Fax+(612) 9899 4019

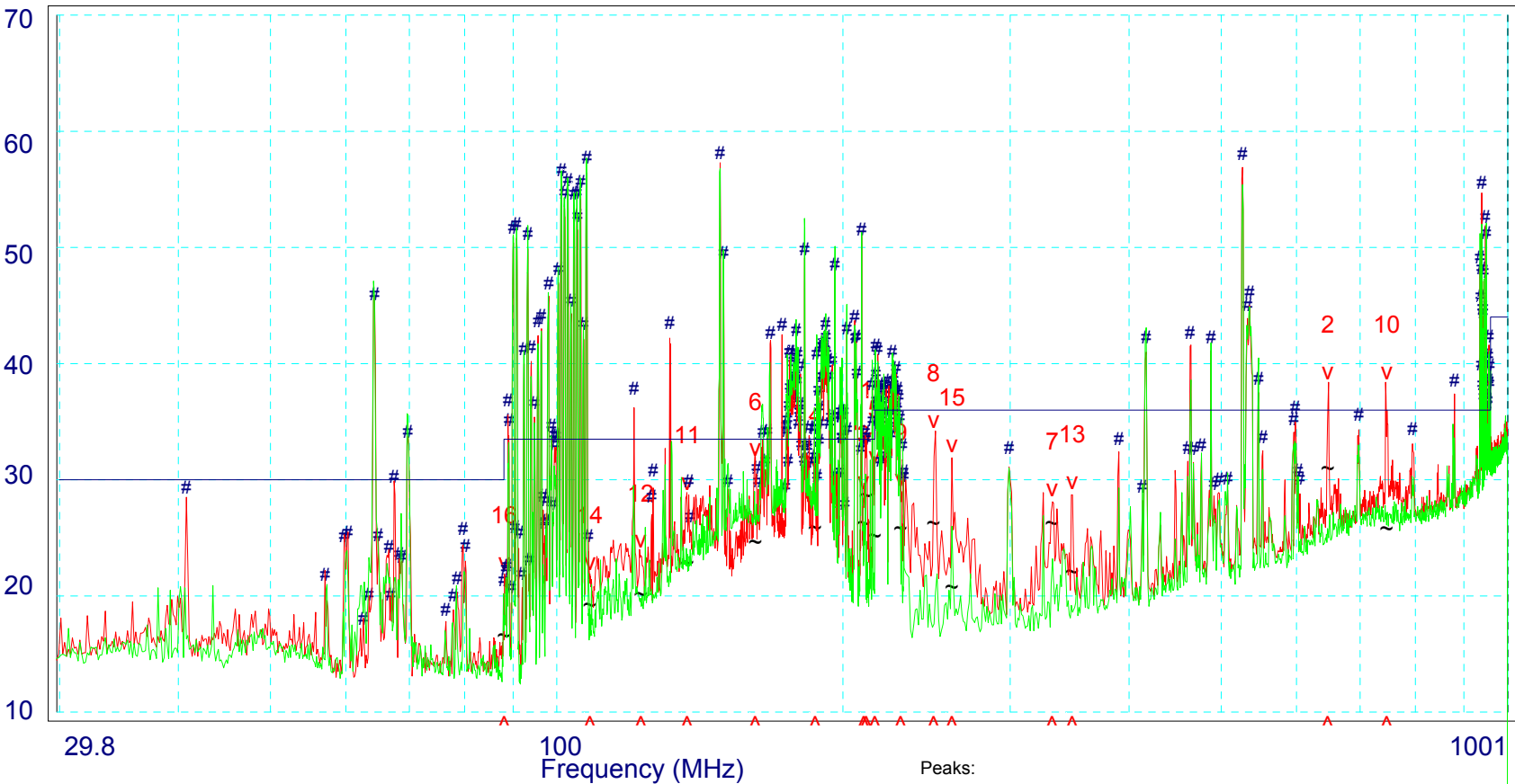
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Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535 r:\PCFM040535F_5.PCF

Test Date: 25-05-04

GRAPH No. 5



ROBOTRON
G3 WINRADIO
Configuration 2: Tuned freq.: 15MHz
Radiated Emissions - Vertical Polarity

Limits: FCCB-10 FCC CLASS B RAD 10M LIMITS
Legend: Vertical Ambients (green line), Vertical Emissions (red line)
Source: m040535r 5 6 7 8 9 18 19 20, m040535r 70 71 72 73 74 83 84 85
Ver 5.5 Build 93
radiated emissions site 2 lerderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	211.59	32.8	27.8	33.5	-5.7
2	647.30	38.5	30.1	36.0	-5.9
3	210.31	29.0	25.4	33.5	-8.1
4	187.03	30.7	25.0	33.5	-8.5
5	215.99	31.3	24.3	33.5	-9.2
6	161.74	31.9	23.8	33.5	-9.7
7	331.96	28.5	25.4	36.0	-10.6
8	249.13	34.3	25.4	36.0	-10.6
9	230.09	29.3	25.0	36.0	-11.0
10	746.64	38.5	25.0	36.0	-11.0
11	137.19	29.0	22.0	33.5	-11.5
12	122.58	24.0	19.3	33.5	-14.2
13	348.52	29.0	21.2	36.0	-14.8
14	108.37	22.1	18.4	33.5	-15.1
15	260.44	32.3	19.9	36.0	-16.1
16	88.04	22.1	15.8	33.5	-17.7

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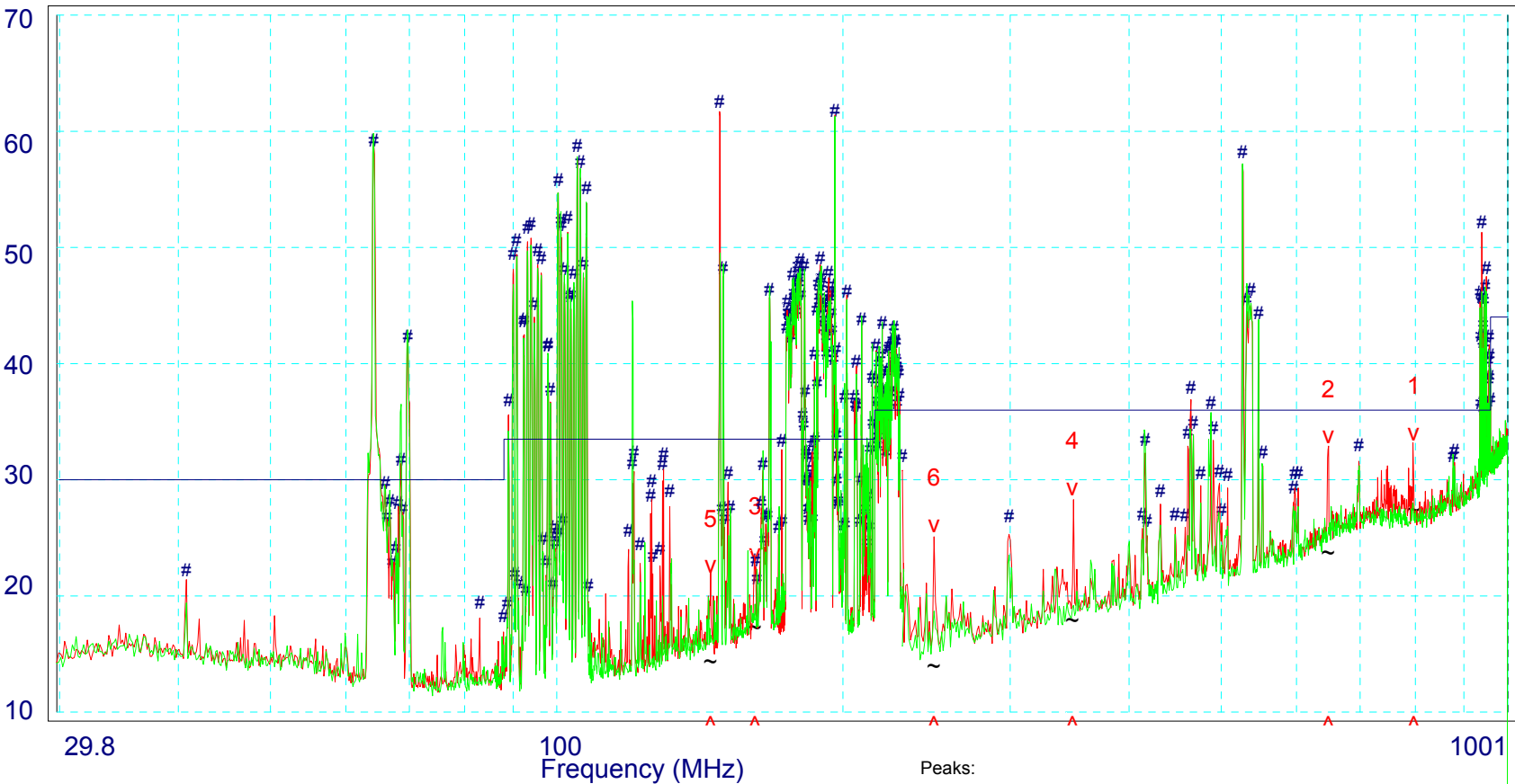
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Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535 r:\PCF\M040535F_6.PCF

Test Date: 25-05-04

GRAPH No. 6



ROBOTRON
G3 WINRADIO
Configuration 2: Tuned freq.: 15MHz
Radiated Emissions - Horizontal Polarity

Limits:
FCCB-10 FCC CLASS B RAD 10M LIMITS

Legend:
Horizontal Ambients
Horizontal Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

Source:
m040535r 10 11 12 13 14 15 16 17
m040535r 75 76 77 78 79 80 81 82

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	796.78	33.3	26.6	36.0	-9.5
2	647.96	33.0	22.8	36.0	-13.2
3	161.58	22.9	16.4	33.5	-17.1
4	348.71	28.5	17.1	36.0	-18.9
5	145.14	21.8	13.5	33.5	-20.0
6	249.27	25.3	13.1	36.0	-22.9

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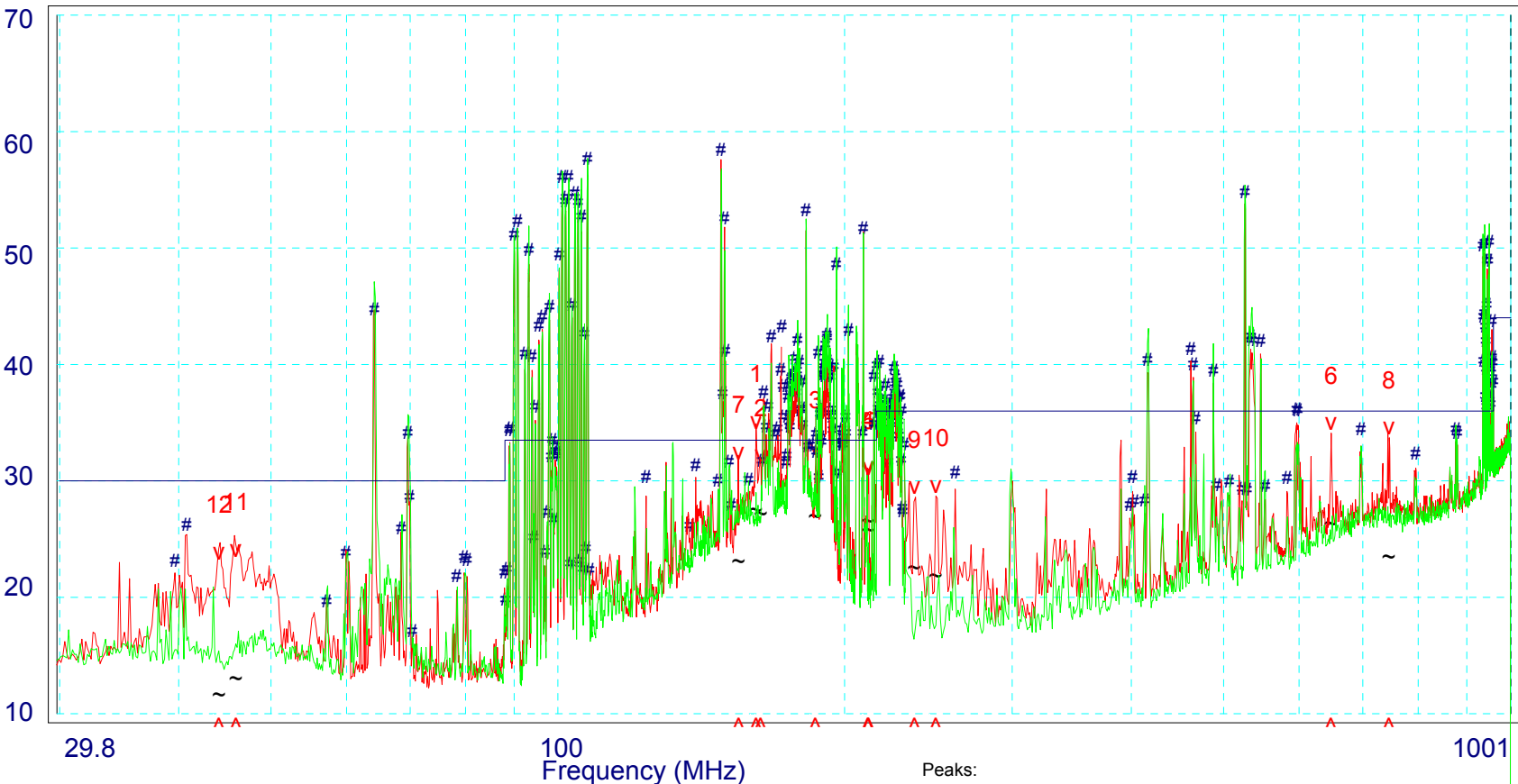
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Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535 r:\PCFM040535F_7.PCF

Test Date: 24-05-04

GRAPH No. 7



ROBOTRON
G3 WINRADIO
Configuration 3: Tuned freq.: 30MHz
Radiated Emissions - Vertical Polarity

Limits: FCCB-10 FCC CLASS B RAD 10M LIMITS
Legend: Vertical Ambients (green), Vertical Emissions (red)
Source: m040535r 5 6 7 8 9 18 19 20, m040535r 38 39 40 41 42 51 52 53
Ver 5.5 Build 93
radiated emissions site 2 lerderberg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderberg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	161.46	34.3	26.6	33.5	-6.9
2	163.28	31.4	26.3	33.5	-7.2
3	186.40	32.1	26.1	33.5	-7.4
4	211.66	30.4	25.8	33.5	-7.8
5	211.89	30.4	25.0	33.5	-8.5
6	648.17	34.2	25.5	36.0	-10.5
7	154.78	31.7	22.3	33.5	-11.2
8	745.42	33.8	22.6	36.0	-13.4
9	236.70	28.7	21.7	36.0	-14.3
10	249.31	28.9	21.0	36.0	-15.0
11	45.91	23.4	12.2	30.0	-17.8
12	44.08	23.1	10.8	30.0	-19.2

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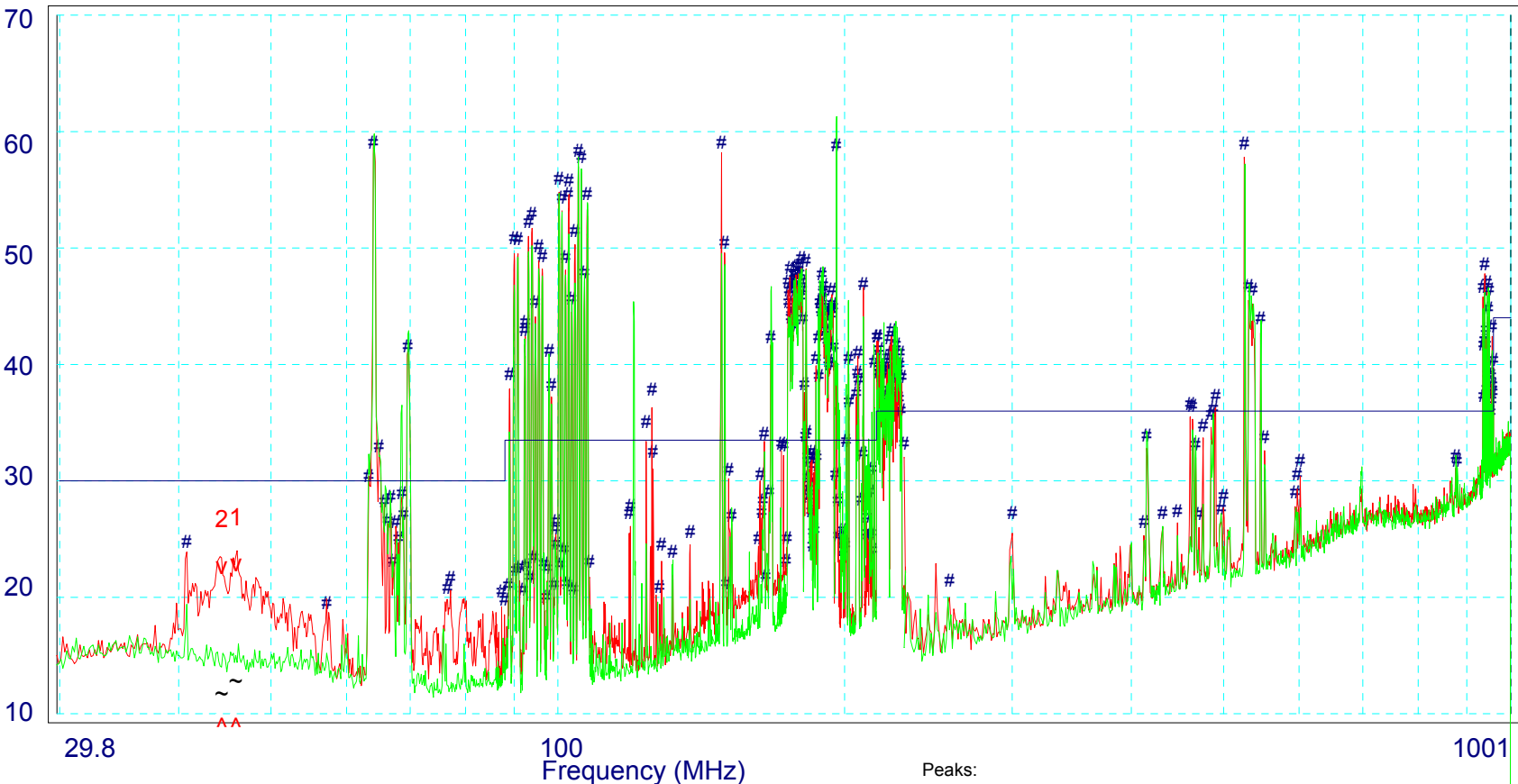
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Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535 r:\PCFM040535F_8.PCF

Test Date: 24-05-04

GRAPH No. 8



ROBOTRON
G3 WINRADIO
Configuration 3: Tuned freq.: 30MHz
Radiated Emissions - Horizontal Polarity

Limits:
FCCB-10 FCC CLASS B RAD 10M LIMITS

Legend:
Horizontal Ambients
Horizontal Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

Source:
m040535r 10 11 12 13 14 15 16 17
m040535r 43 44 45 46 47 48 49 50

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	45.93	22.1	11.9	30.0	-18.1
2	44.37	21.8	10.9	30.0	-19.1

Melbourne- 57 Assembly Drv Tullamarine, 3043, Vic, Australia Ph+(613) 9335 3333 Fax+(613) 9338 9260
Sydney----- 16,6 Gladstone Rd Castle Hill, 2154, NSW, Australia Ph+(612) 9899 4599 Fax+(612) 9899 4019

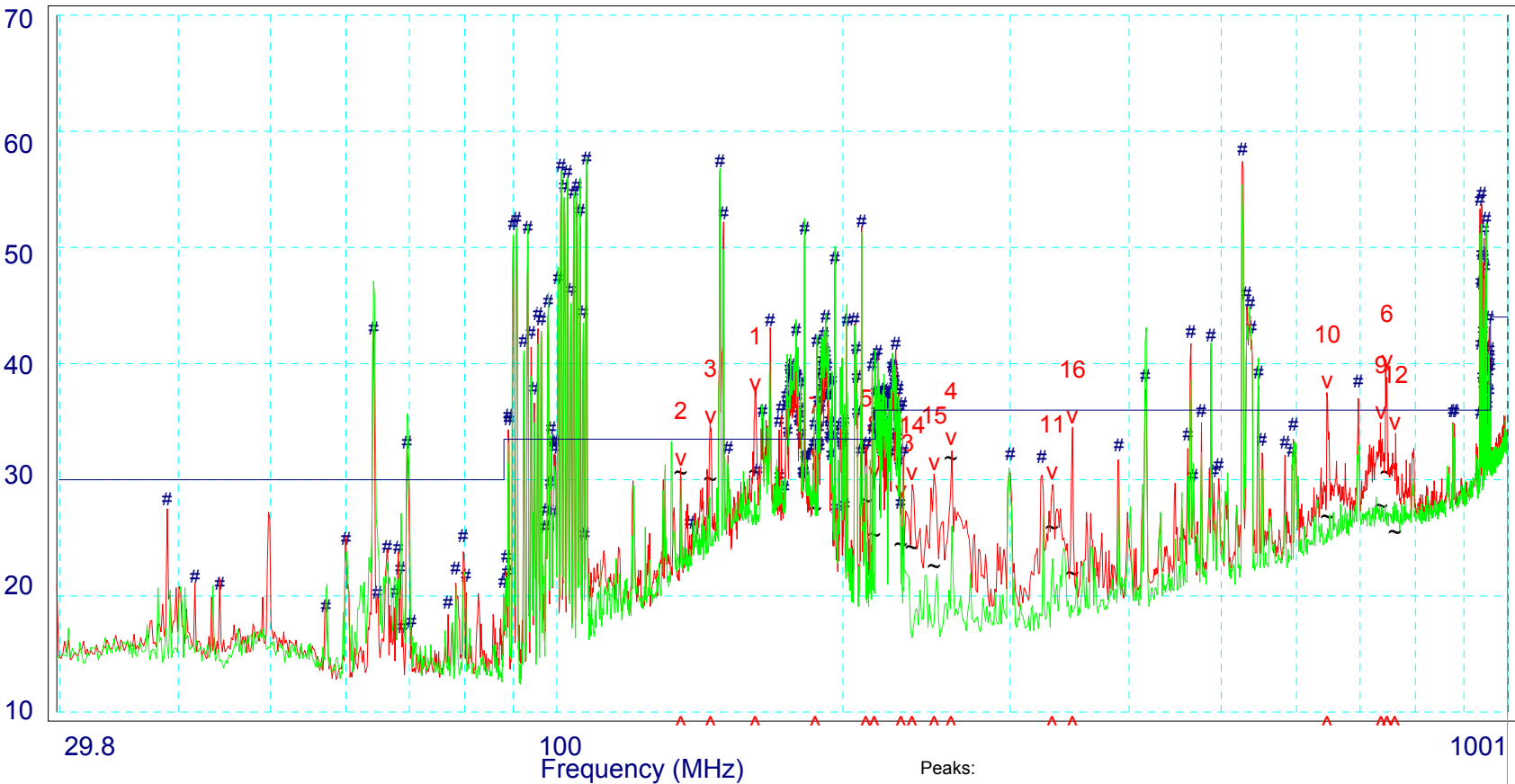
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Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535 r:\PCFM040535F_9.PCF

Test Date: 25-05-04

GRAPH No. 9



ROBOTRON
G3 WINRADIO
Configuration 4: tuned freq.: 90MHz
Radiated Emissions - Vertical Polarity

Limits:
FCCB-10 FCC CLASS B RAD 10M LIMITS

Legend:
— Vertical Ambients
— Vertical Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	161.80	37.5	29.8	33.5	-3.7
2	135.02	31.1	29.7	33.5	-3.8
3	145.12	34.7	29.2	33.5	-4.3
4	259.95	32.8	31.0	36.0	-5.0
5	211.51	32.2	27.3	33.5	-6.2
6	747.11	39.5	29.7	36.0	-6.3
7	186.97	31.5	26.6	33.5	-6.9
8	215.76	29.9	24.4	33.5	-9.1
9	736.56	35.1	26.9	36.0	-9.2
10	646.32	37.7	25.9	36.0	-10.1
11	332.00	29.9	25.1	36.0	-11.0
12	761.47	34.2	24.6	36.0	-11.4
13	230.16	28.3	23.6	36.0	-12.4
14	236.40	29.8	23.3	36.0	-12.7
15	249.42	30.7	21.7	36.0	-14.3
16	348.72	34.7	21.1	36.0	-14.9

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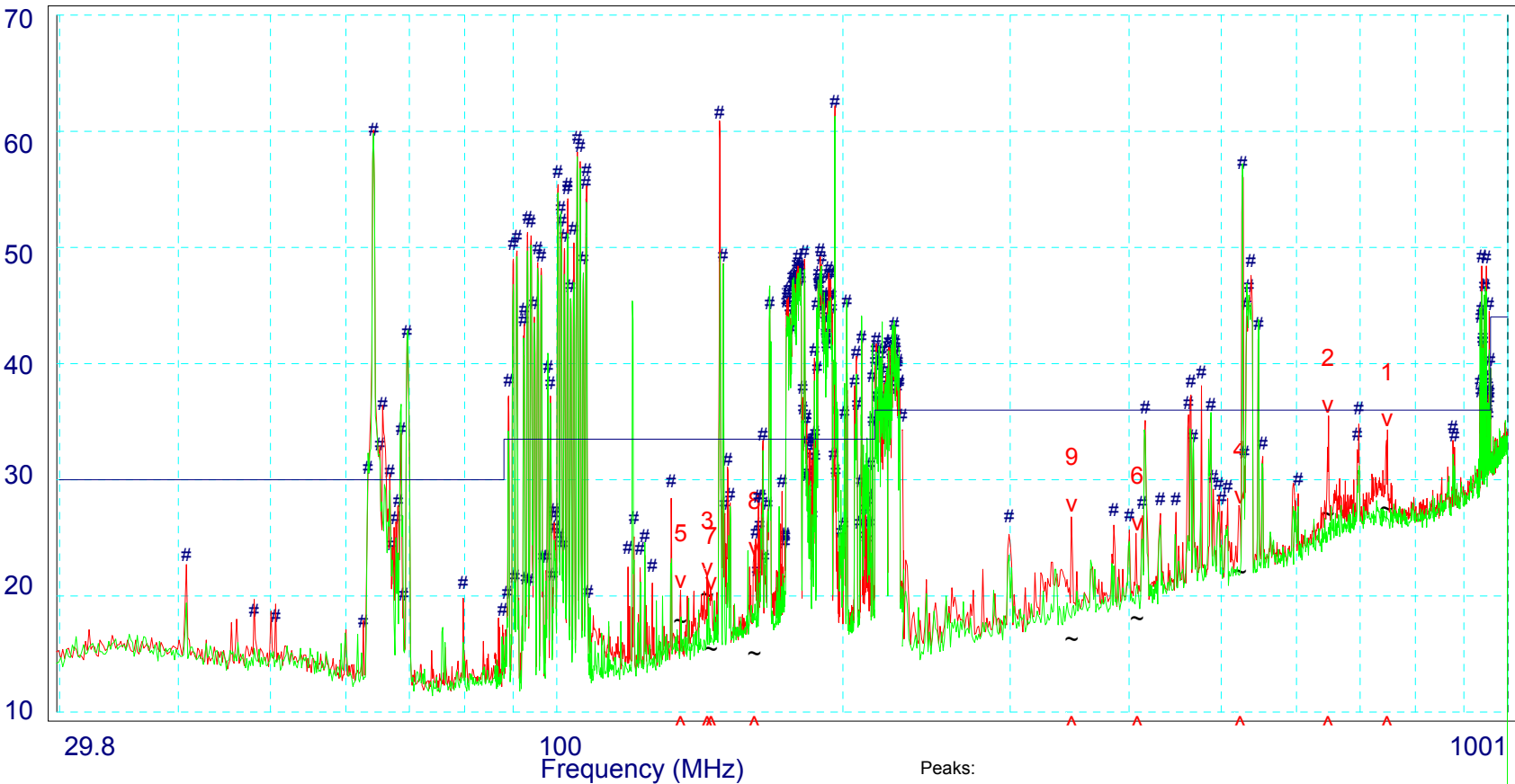
Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535

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Test Date: 25-05-04

GRAPH No. 10



ROBOTRON
G3 WINRADIO
Configuration 4: tuned freq.: 90MHz
Radiated Emissions - Horizontal Polarity

Limits:
FCCB-10 FCC CLASS B RAD 10M LIMITS

Legend:
Horizontal Ambients
Horizontal Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

Source:
m040535r 10 11 12 13 14 15 16 17
m040535r 92 93 94 95 96 89 90 91

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	747.05	34.5	26.7	36.0	-9.3
2	647.44	35.6	26.2	36.0	-9.8
3	143.99	21.6	19.3	33.5	-14.2
4	523.28	27.8	21.2	36.0	-14.8
5	135.01	20.6	16.9	33.5	-16.6
6	408.01	25.5	17.2	36.0	-18.8
7	145.35	20.3	14.6	33.5	-18.9
8	161.43	23.4	14.2	33.5	-19.3
9	348.10	27.1	15.4	36.0	-20.6

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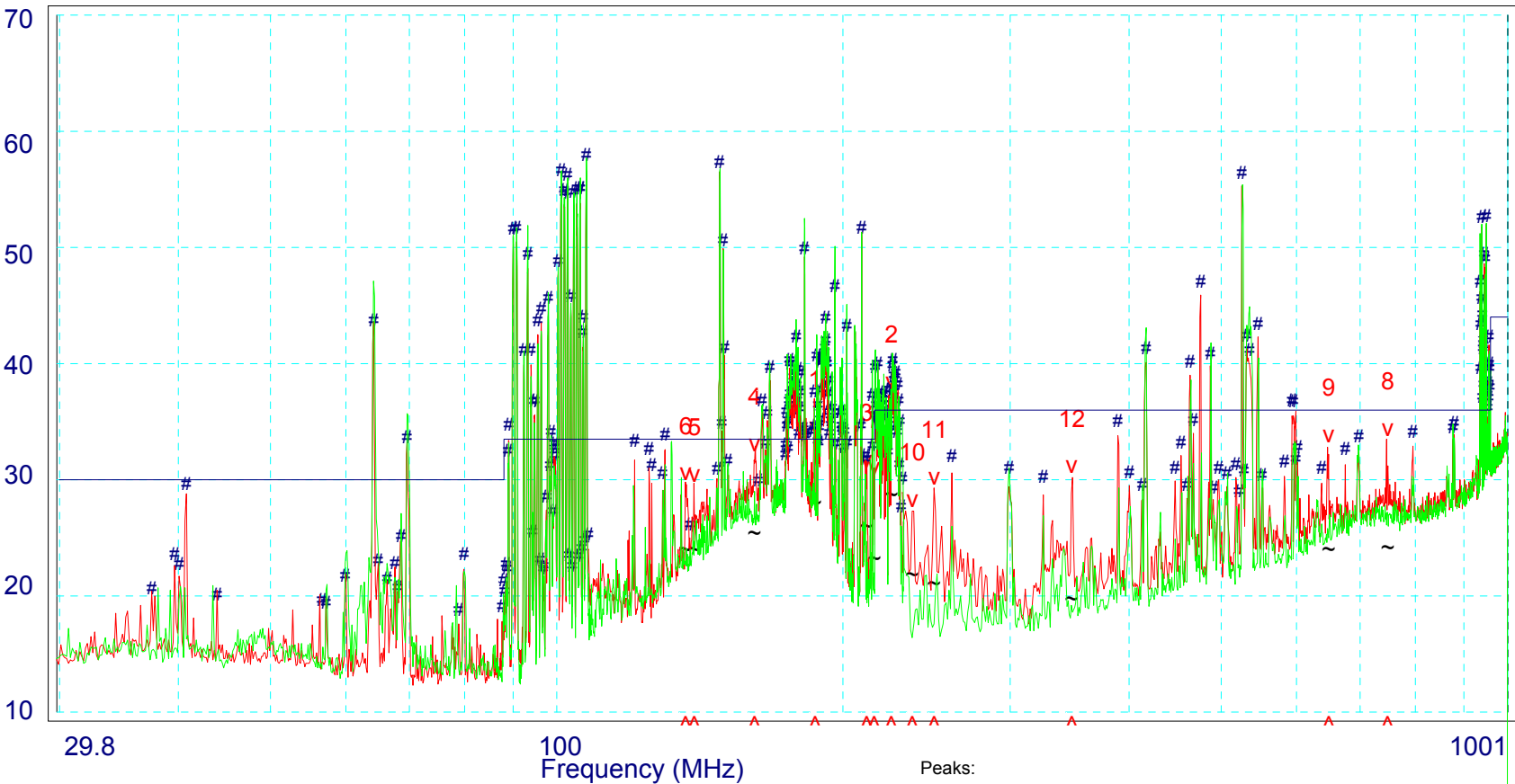
Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535

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Test Date: 24-05-04

GRAPH No. 11



ROBOTRON
G3 WINRADIO
Configuration 5: Tuned freq.: 180MHz
Radiated Emissions - Vertical Polarity

Limits:
FCCB-10 FCC CLASS B RAD 10M LIMITS

Legend:
Vertical Ambients
Vertical Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

Source:
m040535r 5 6 7 8 9 18 19 20
m040535r 65 66 67 68 69 54 55 56

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	186.95	33.8	27.2	33.5	-6.3
2	225.00	37.6	27.9	36.0	-8.1
3	211.82	30.9	25.2	33.5	-8.3
4	161.51	32.3	24.6	33.5	-8.9
5	139.58	29.7	23.2	33.5	-10.3
6	136.66	29.8	23.1	33.5	-10.4
7	215.83	30.3	22.4	33.5	-11.1
8	748.46	33.6	23.4	36.0	-12.7
9	648.68	33.1	23.2	36.0	-12.8
10	236.56	27.5	21.0	36.0	-15.0
11	249.47	29.5	20.2	36.0	-15.8
12	348.14	30.4	18.9	36.0	-17.1

Melbourne- 57 Assembly Drv Tullamarine, 3043, Vic, Australia Ph+(613) 9335 3333 Fax+(613) 9338 9260
Sydney----- 16,6 Gladstone Rd Castle Hill, 2154, NSW, Australia Ph+(612) 9899 4599 Fax+(612) 9899 4019

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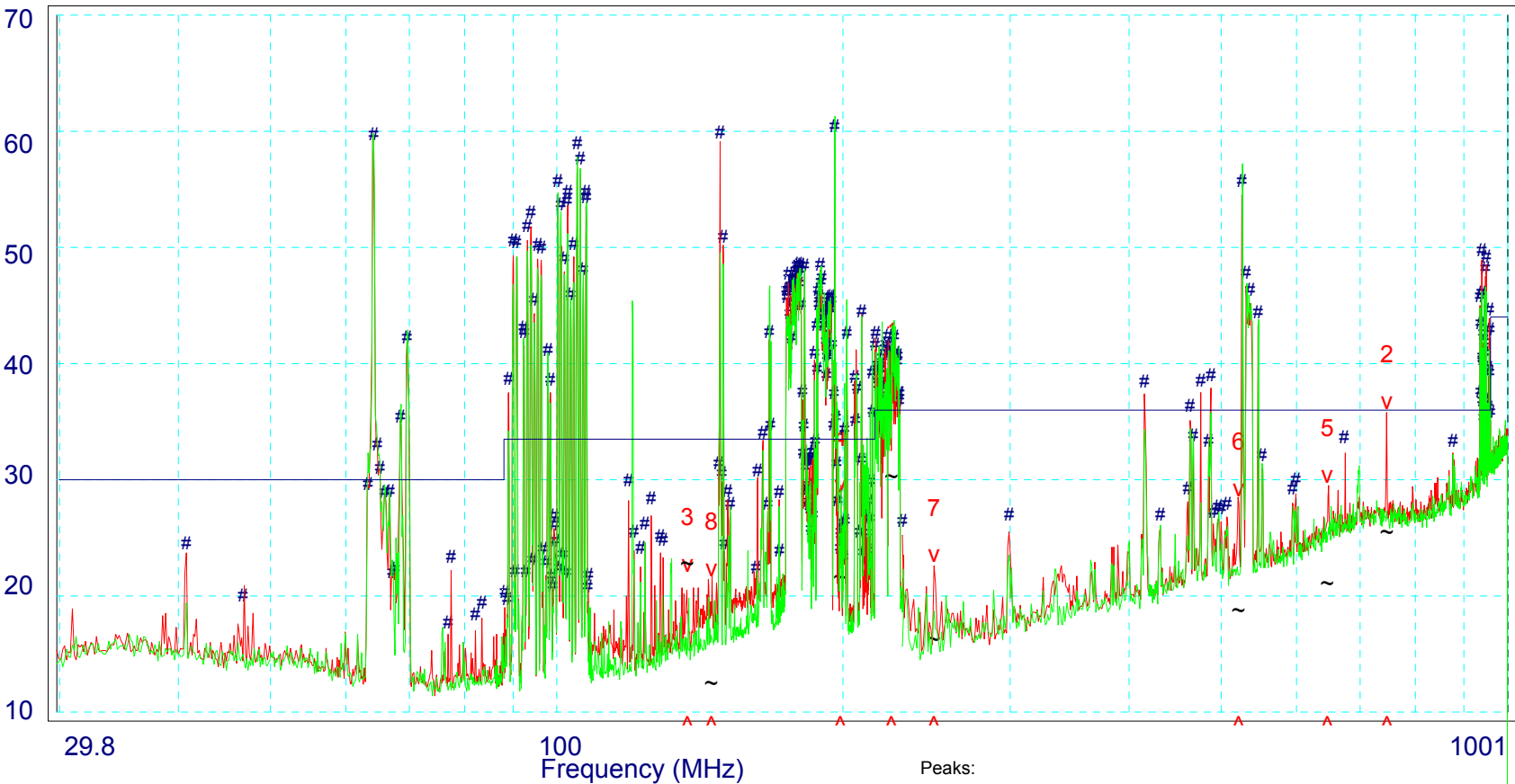
Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535

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Test Date: 24-05-04

GRAPH No. 12



ROBOTRON
G3 WINRADIO
Configuration 5: Tuned freq.: 180MHz
Radiated Emissions - Horizontal Polarity

Limits:
FCCB-10 FCC CLASS B RAD 10M LIMITS

Legend:
Horizontal Ambients
Horizontal Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderderg
t:A1360704_10M c1:C1700804 c2:NONE p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

Source:
m040535r 10 11 12 13 14 15 16 17
m040535r 60 61 62 63 64 57 58 59

Peaks:

No	Freq (MHz)	Peak (dBuV/m)	Qp Val	FCCB-10 (dBuV/m)	dL1 (dB)
1	225.00	37.9	29.5	36.0	-6.5
2	746.82	36.0	24.6	36.0	-11.4
3	137.27	21.9	21.9	33.5	-11.6
4	198.77	28.8	20.8	33.5	-12.8
5	646.37	29.6	20.2	36.0	-15.8
6	521.48	28.4	17.9	36.0	-18.1
7	249.26	22.8	15.4	36.0	-20.6
8	145.44	21.6	11.7	33.5	-21.8

Melbourne- 57 Assembly Drv Tullamarine, 3043, Vic, Australia Ph+(613) 9335 3333 Fax+(613) 9338 9260
Sydney----- 16,6 Gladstone Rd Castle Hill, 2154, NSW, Australia Ph+(612) 9899 4599 Fax+(612) 9899 4019

EMC Technologies Pty. Ltd. - Global Product Certification

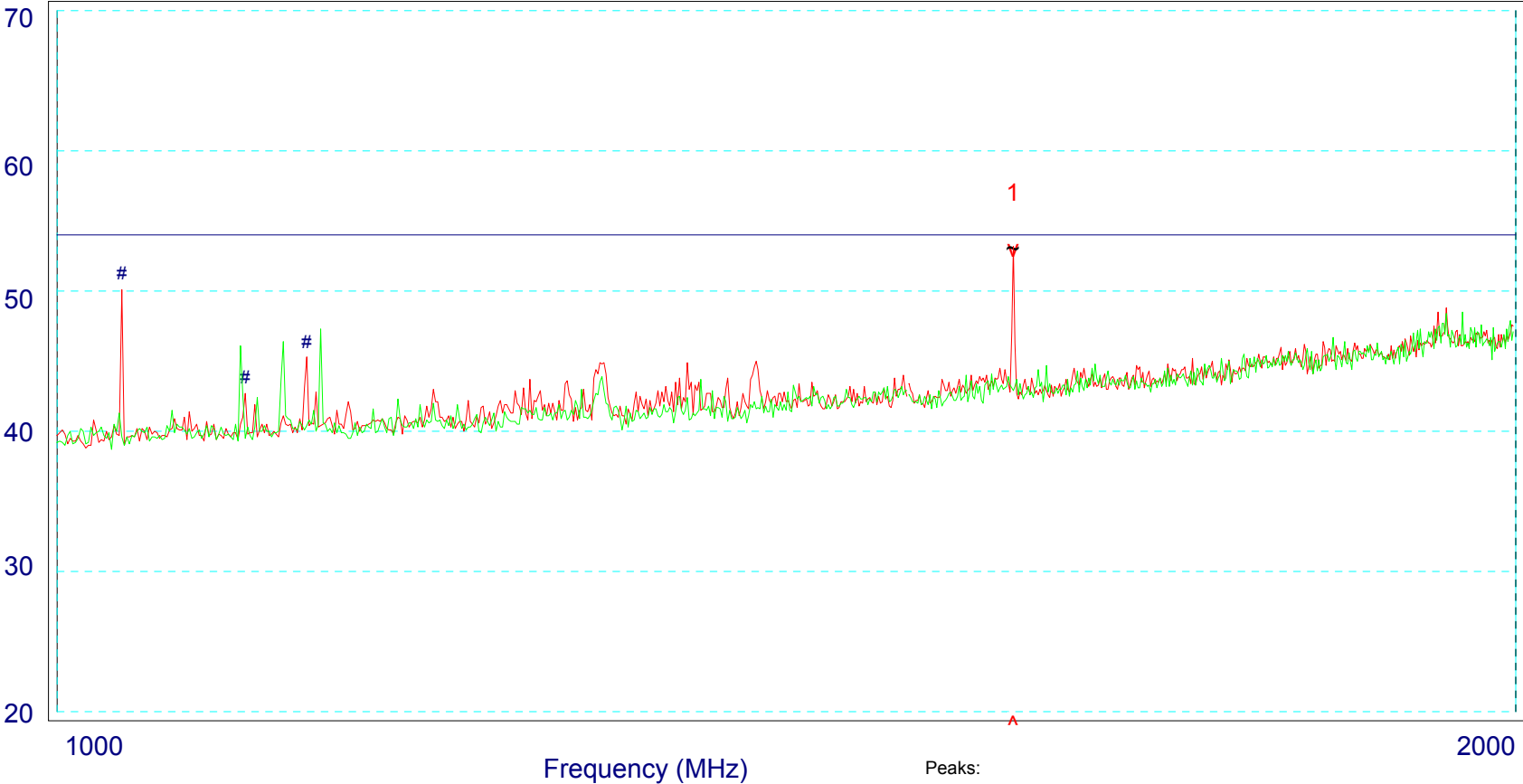
Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535

r:\PCF\M040535F_13.PCF

Test Date: 17-06-04

GRAPH No. 13



ROBOTRON
G3 WINRADIO

Radiated Emissions - Vertical Polarity

Limits: FCC-B3 FCC CLASS B RAD 3M LIMITS

Legend:
— Vertical Ambients
— Vertical Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderderg 1-4GHz
t:A0040106 c1:NONE c2:C1310104 p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

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Sydney----- 16,6 Gladstone Rd Castle Hill, 2154, NSW, Australia Ph+(612) 9899 4599 Fax+(612) 9899 4019

Peaks:				
No	Freq (MHz)	Peak (dBuV/m)	Av Val	FCC-B3 (dBuV/m) dL1 (dB)
1	1574.9752	52.0	54.0	-2.0

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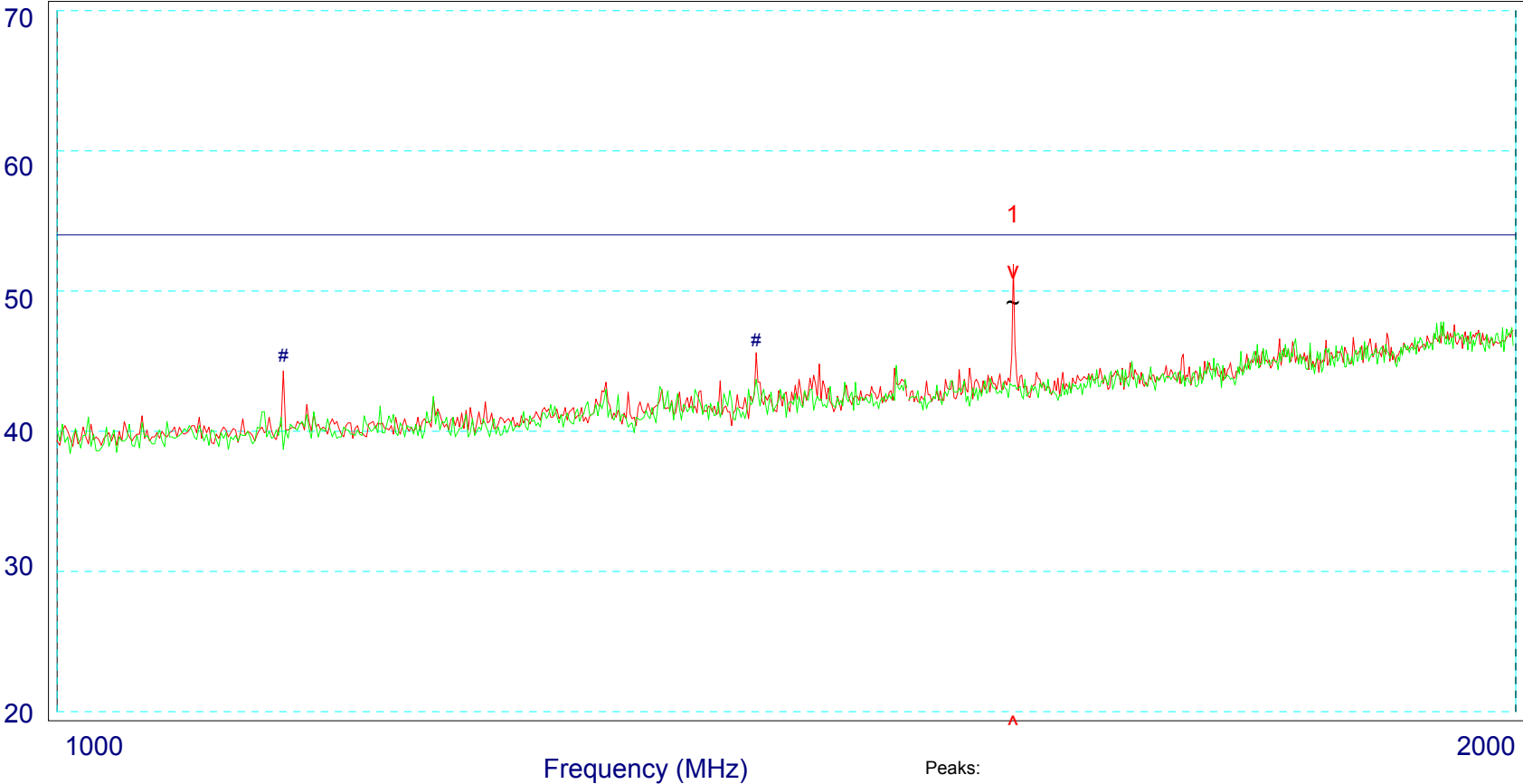
Radiated Emissions (dBuV/m)
= Ambient

Job No:M040535

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Test Date: 17-06-04

GRAPH No. 14



ROBOTRON
G3 WINRADIO

Radiated Emissions - Horizontal Polarity

Limits: FCC-B3 FCC CLASS B RAD 3M LIMITS

Legend:
— Horizontal Ambients
— Horizontal Emissions

Ver 5.5 Build 93
radiated emissions site 2 lerderderg 1-4GHz
t:A0040106 c1:NONE c2:C1310104 p:NONE a:NONE
Site ID: OATS2,Lerderderg Gorge Rd, Bacchus Marsh, VIC
Test Officer:Jorge Lara

Source:
m040535u 9 10
m040535u 19 20

Peaks:				
No	Freq (MHz)	Peak (dBuV/m)	Av Val	FCC-B3 (dBuV/m) dL1 (dB)
1	1574.99	50.4	48.1	54.0 -5.9

Melbourne- 57 Assembly Drv Tullamarine, 3043, Vic, Australia Ph+(613) 9335 3333 Fax+(613) 9338 9260
Sydney----- 16,6 Gladstone Rd Castle Hill, 2154, NSW, Australia Ph+(612) 9899 4599 Fax+(612) 9899 4019