

EMC Technologies Report Number: M040124_Cert_Onion_Atheros_2.4_BT

APPENDIX I – Graphs of EMI Measurement



EMC Technologies Pty. Ltd. - Global Product Certification

FCC Class B

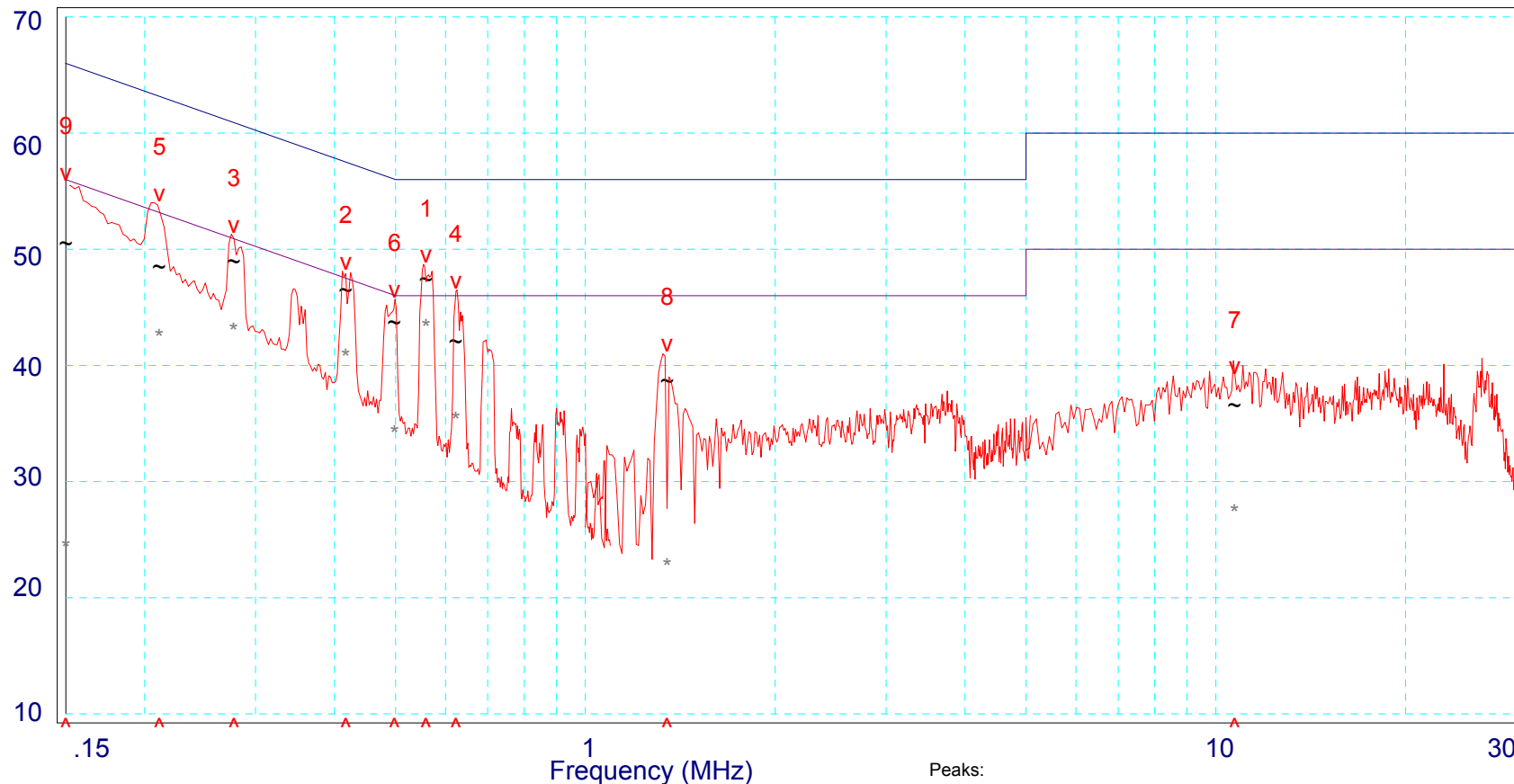
Conducted Emissions (dBuV)

Job No:M040124

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Test Date: 05-02-04

GRAPH No. 1



Fujitsu Australia Ltd
Onion LifeBook - S7010D
Atheros 11abg and BT (60W)
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, L-22 LISN
t:L0220104 c1:C1620105 c2:C1450504 p:NONE a:L0180704
Site ID: Room#1,57 Assembly Drv. Tullamarine, VIC
Test Officer:Olivia Laskowski

Source:
M040124c 13 14 15

Peaks:

No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_BQPn (dBuV)	NdL1 (dB)	Av Val (dBuV)	FCC_BAVn (dBuV)	NdL2 (dB)
1	0.559	48.7	46.5	56.0	-9.5	42.4	46.0	-3.6
2	0.417	48.1	45.6	57.5	-11.9	39.8	47.5	-7.7
3	0.277	51.3	48.1	60.9	-12.8	42.1	50.9	-8.8
4	0.623	46.5	41.2	56.0	-14.8	34.4	46.0	-11.6
5	0.211	54.0	47.7	63.2	-15.5	41.5	53.2	-11.7
6	0.498	45.7	42.8	56.0	-13.2	33.2	46.0	-12.8
7	10.71	39.1	35.7	60.0	-24.3	26.4	50.0	-23.6
8	1.348	41.0	37.8	56.0	-18.2	21.8	46.0	-24.2
9	0.150	55.8	49.7	66.0	-16.3	23.4	56.0	-32.6

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

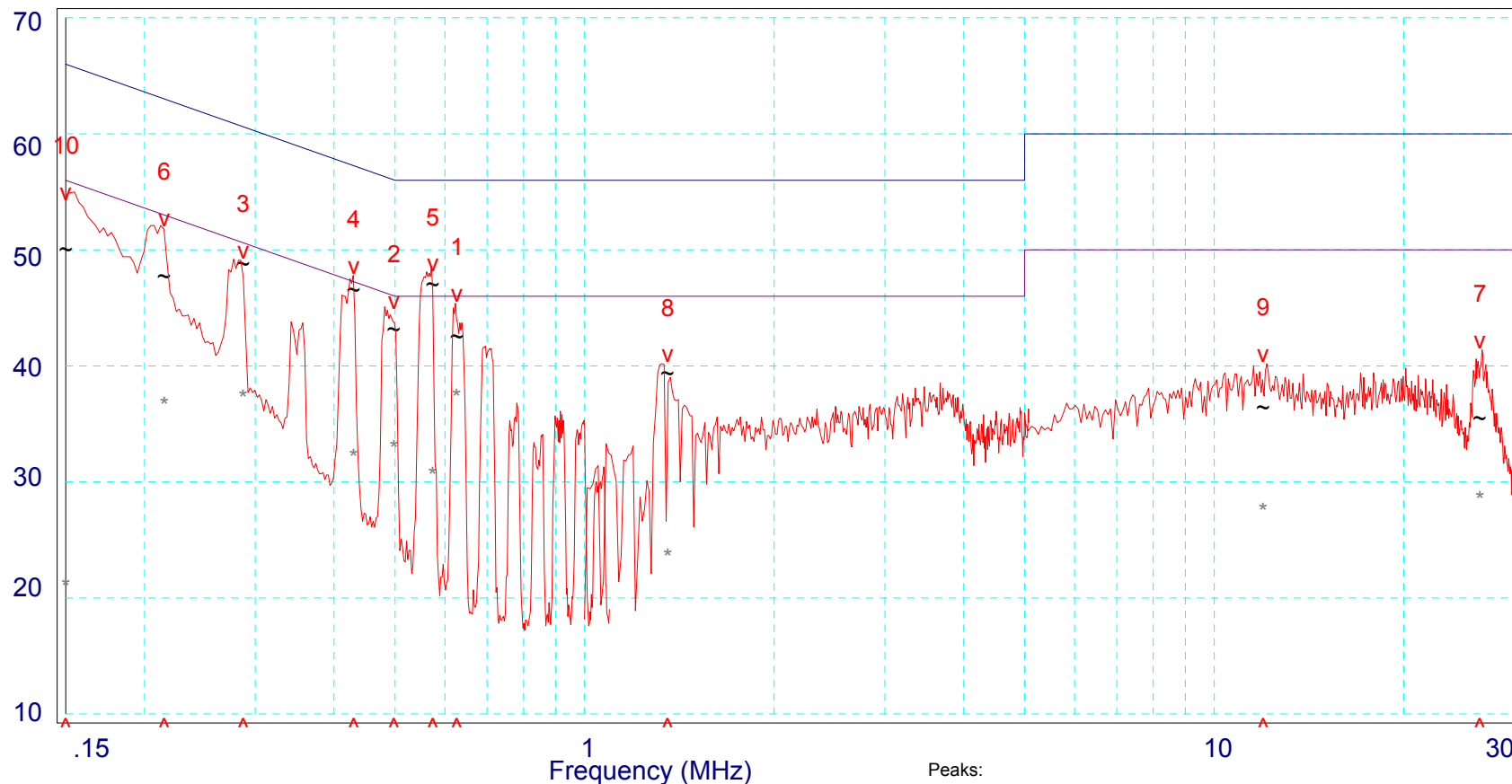
FCC Class B
Conducted Emissions (dBuV)

Job No:M040124

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Test Date: 05-02-04

GRAPH No. 2



Fujitsu Australia Ltd
Onion LifeBook - S7010D
Atheros 11abg and BT (60W)
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, L-22 LISN
t:L0220104 c1:C1620105 c2:C1450504 p:NONE a:L0180704
Site ID: Room#1,57 Assembly Drv. Tullamarine, VIC
Test Officer:Olivia Laskowski

Source:
M040124c 16 17 18

Peaks:

No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_BQPn (dBuV)	NdL1 (dB)	Av Val (dBuV)	FCC_BAVn (dBuV)	NdL2 (dB)
1	0.627	45.4	41.7	56.0	-14.3	36.4	46.0	-9.6
2	0.498	44.8	42.3	56.0	-13.7	32.0	46.0	-14.0
3	0.287	49.1	48.0	60.6	-12.7	36.3	50.6	-14.3
4	0.430	47.8	45.7	57.3	-11.6	31.2	47.3	-16.1
5	0.574	48.0	46.2	56.0	-9.8	29.7	46.0	-16.3
6	0.215	51.9	46.8	63.0	-16.2	35.7	53.0	-17.3
7	26.41	41.4	34.7	60.0	-25.3	27.6	50.0	-22.4
8	1.355	40.2	38.5	56.0	-17.5	22.6	46.0	-23.4
9	11.96	40.2	35.5	60.0	-24.5	26.6	50.0	-23.4
10	0.150	54.2	49.2	66.0	-16.8	20.1	56.0	-35.9

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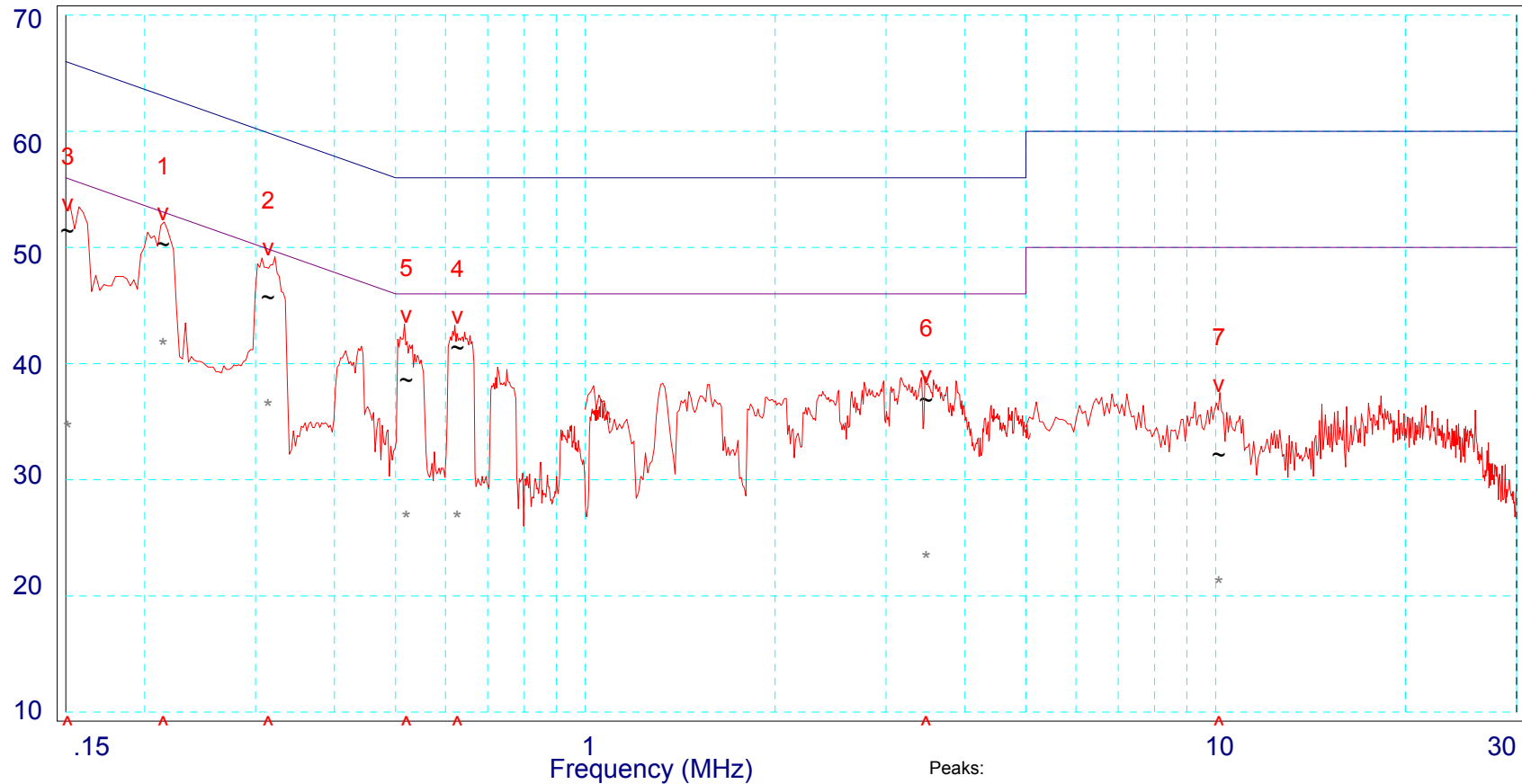
FCC Class B
Conducted Emissions (dBuV)

Job No:M040124

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Test Date: 05-02-04

GRAPH No. 3



Fujitsu Australia Ltd
Onion LifeBook - S7010D
Atheros 11abg and BT (80W)
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, L-22 LISN
t:L0220104 c1:C1620105 c2:C1450504 p:NONE a:L0180704
Site ID: Room#1,57 Assembly Drv. Tullamarine, VIC
Test Officer:Olivia Laskowski

Source:
M040124c 19 20 21

No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_BQPN (dBuV)	NdL1 (dB)	Av Val (dBuV)	FCC_BAVN (dBuV)	NdL2 (dB)
1	0.214	52.2	49.4	63.0	-13.6	40.6	53.0	-12.4
2	0.314	49.2	44.9	59.9	-15.0	35.3	49.9	-14.6
3	0.151	53.0	50.6	65.9	-15.4	33.5	55.9	-22.4
4	0.627	43.3	40.5	56.0	-15.5	25.7	46.0	-20.3
5	0.520	43.4	37.7	56.0	-18.3	25.7	46.0	-20.3
6	3.472	38.2	36.1	56.0	-20.0	22.2	46.0	-23.8
7	10.11	37.5	31.3	60.0	-28.7	20.1	50.0	-29.9

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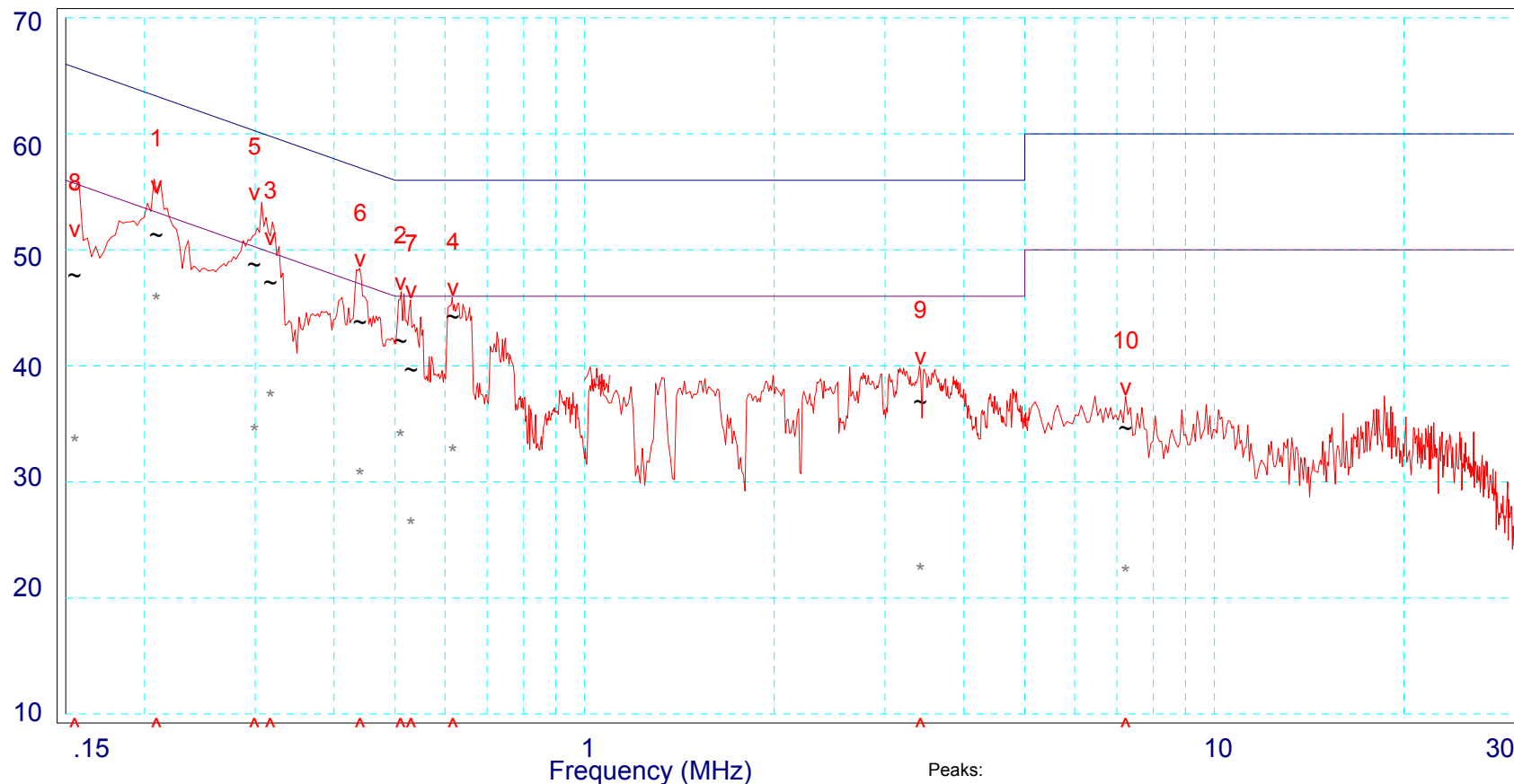
FCC Class B
Conducted Emissions (dBuV)

Job No:M040124

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Test Date: 05-02-04

GRAPH No. 4



Fujitsu Australia Ltd
Onion LifeBook - S7010D
Atheros 11abg and BT (80W)
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, L-22 LISN
t:L0220104 c1:C1620105 c2:C1450504 p:NONE a:L0180704
Site ID: Room#1,57 Assembly Drv. Tullamarine, VIC
Test Officer:Olivia Laskowski

Source:
M040124c 22 23 24

No	Freq (MHz)	Peak (dBuV)	Qp Val	FCC_BQPn (dBuV)	NdL1 (dB)	Av Val (dBuV)	FCC_BAVn (dBuV)	NdL2 (dB)
1	0.209	54.8	50.4	63.2	-12.9	44.7	53.2	-8.5
2	0.510	46.4	41.3	56.0	-14.7	32.9	46.0	-13.1
3	0.317	50.3	46.3	59.8	-13.4	36.3	49.8	-13.5
4	0.618	45.9	43.4	56.0	-12.6	31.6	46.0	-14.4
5	0.299	54.1	47.9	60.3	-12.4	33.4	50.3	-16.9
6	0.440	48.4	42.9	57.1	-14.2	29.6	47.1	-17.5
7	0.530	45.7	38.8	56.0	-17.2	25.3	46.0	-20.7
8	0.155	51.0	47.0	65.7	-18.8	32.5	55.7	-23.2
9	3.412	40.0	36.1	56.0	-20.0	21.4	46.0	-24.6
10	7.227	37.4	33.8	60.0	-26.2	21.2	50.0	-28.8

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