dB Technology

|---------- (Cambridge Ltd.) ----------|

EMC Testing   EMC Consultancy   EMC Training

ELECTROMAGNETIC COMPATIBILITY TEST SUMMARY

Tests performed at:

**Twentypence Road,
Cottenham,
Cambridge
U.K.
CB4 8PS**

This is _not_ a formal report that has been fully vetted by a senior engineer. The data within this document acts only as a summary of testing performed to date and may not be complete. It may not contain sufficient information to verify full compliance with the standards noted overleaf. It is likely that the results included within this document cover only in _part_ the requirements of the standards listed. The results may be investigative in nature and therefore will note failures as well as compliance.

Please note that there is no reference to EUT configuration provided by this summary unless individually noted under specific tests.

dB Technology can only report on the specific unit(s) tested at its site. The responsibility for extrapolating this data to a product line lies solely with the manufacturer.

Marker 1: 48.13MH

Ref 70 dBuV/m   Atten 5 dB   47.59dBuV/m

Log
10
dB/

V1   V2
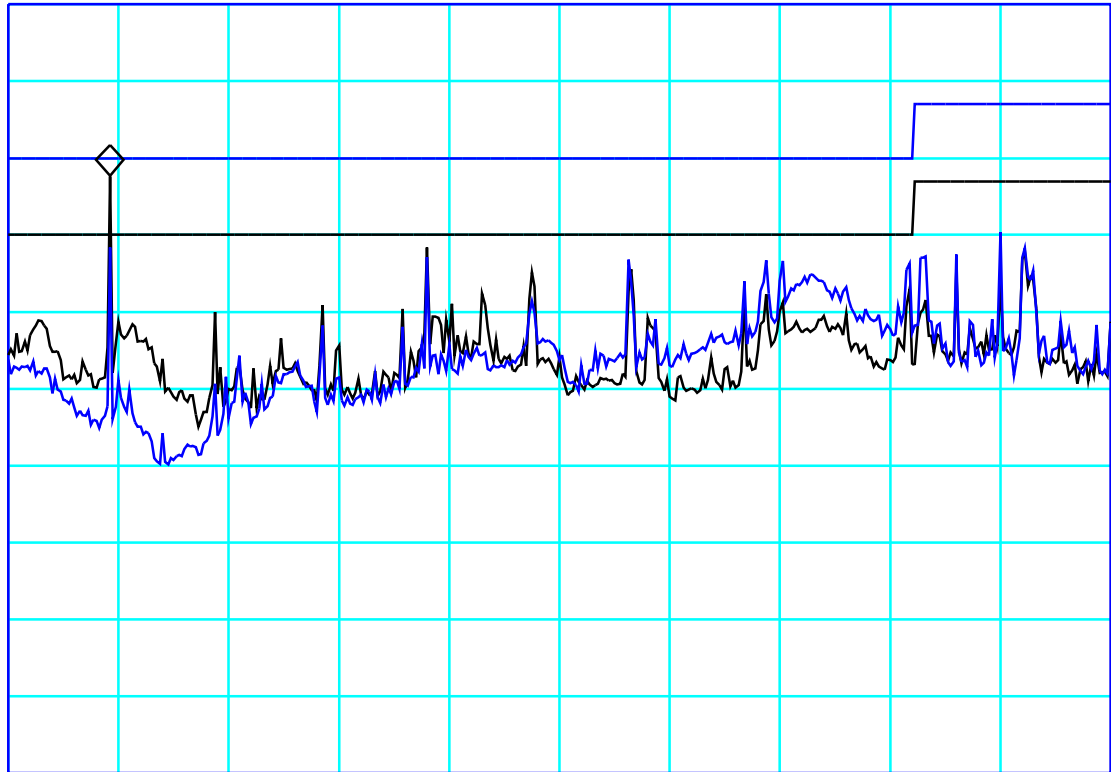S3

PA

Start 25MHz   Stop 275MH

RBW 120 kHz   VBW 300 kHz   Sweep 39.97mS (401 pts)

CF1:A5_FS_090306   CF2:CBL002_CBL003_090306

PLOT 1   Radiated Emissions

Company:	Arm		Product:	MBED-005.1
Date:	10/07/09		Test Eng:	Dave Smith
Method:			Method:	
Limit1:(BLK)	EN55022(B)@3m		Limit2:(BLU)	EN55022(A)@3m
Limit3:			Limit4:	

Black - vertical
Blue - horizontal

Only one unit - connected to IBM Thinkpad via USB.
USB running mass storage class. Internal oscillators and PLLs all powered. Running test prigram to
toggle I/O pins.

Facility:	Anech_1	Height	1m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H961072E		

Marker 1: 319.4MH

Ref 70 dBuV/m   Atten 5 dB   21.12dBuV/r

Log
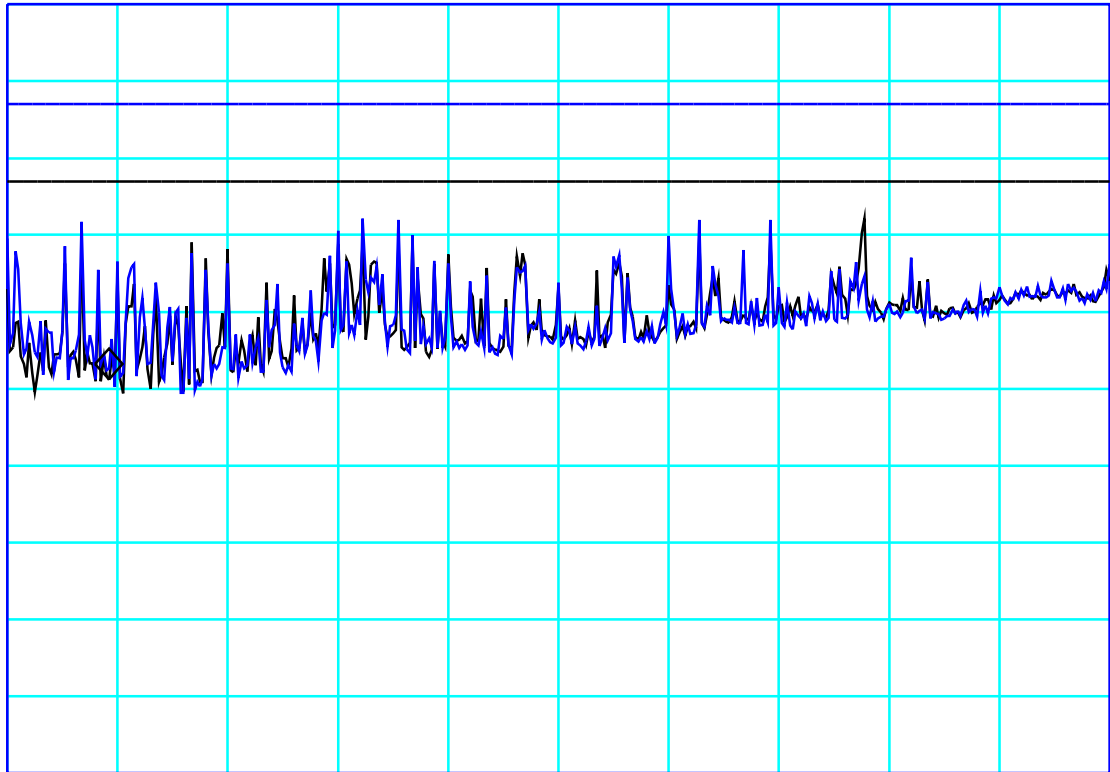10
dB/

V1   V2
S3

PA

Start 250MHz   Stop 1000MH

RBW 120 kHz   VBW 300 kHz   Sweep 119.9mS (401 pts)

CF1:A5_FS_090306   CF2:CBL002_CBL003_090306

PLOT 2   Radiated Emissions

Company:	Arm		Product:	MBED-005.1
Date:	10/07/09		Test Eng:	Dave Smith
Method:			Method:	
Limit1:(BLK)	EN55022(B)@3m		Limit2:(BLU)	EN55022(A)@3m
Limit3:			Limit4:	

Black - vertical
Blue - horizontal

Only one unit - connected to IBM Thinkpad via USB.
USB running mass storage class. Internal oscillators and PLLs all powered. Running test prigram to
toggle I/O pins.

Facility:	Anech_1	Height	1m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H9610734		

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Marker 1: 2.46GH

Ref 70 dBuV/m   Atten 0 dB   43.3dBuV/m

Log
10
dB/

V1 V2
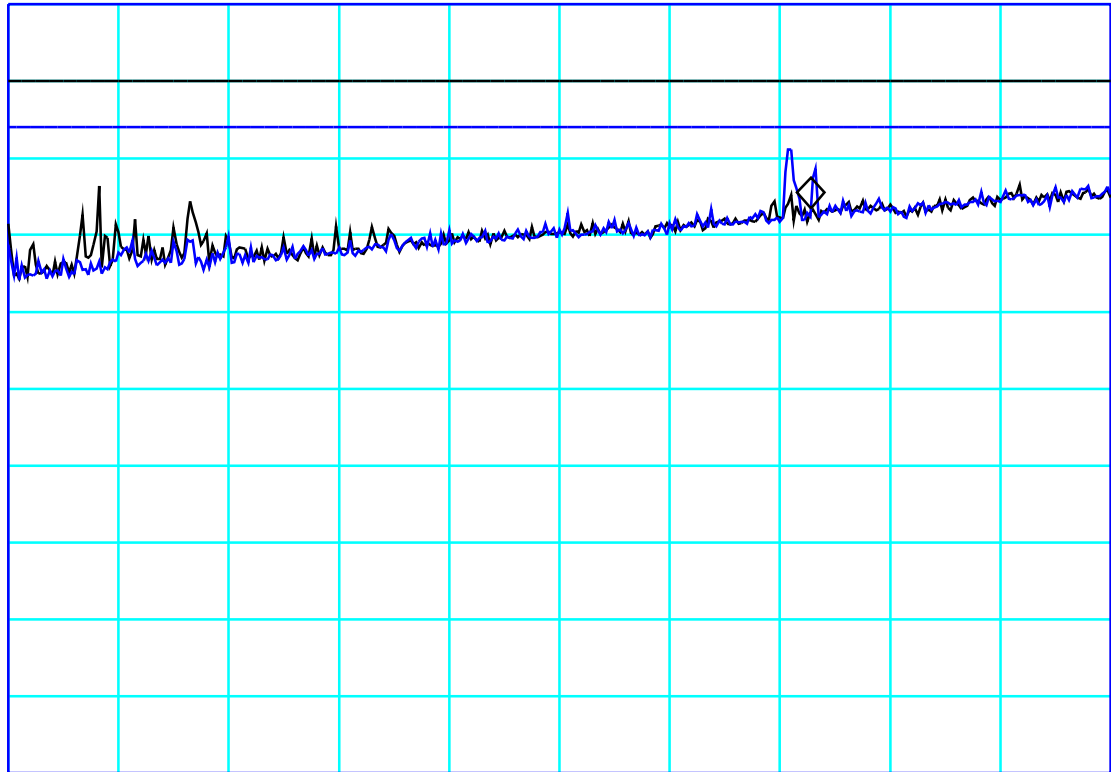S3

PA

Start 1000MHz   Stop 3GHz
RBW 1 MHz   VBW 3 MHz   Sweep 5.242mS (401 pts)

CF1:A8_3m_090306   CF2:CBL002_CBL003_090306

PLOT 3   Radiated Emissions

Company:	Arm	Product:	MBED-005.1
Date:	10/07/09	Test Eng:	Dave Smith
Method:		Method:	
Limit1:(BLK)	FCC(A)@3m	Limit2:(BLU)	FCC(B)@3m
Limit3:		Limit4:	

Black - vertical
Blue - horizontal

Only one unit - connected to IBM Thinkpad via USB.
USB running mass storage class. Internal oscillators and PLLs all powered. Running test prigram to toggle I/O pins.

Facility:	Anech_1	Height	1m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H961074C		

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Marker 1: 48.13MF

Ref 70 dBuV/m   Atten 5 dB   37.13dBuV/r

Log
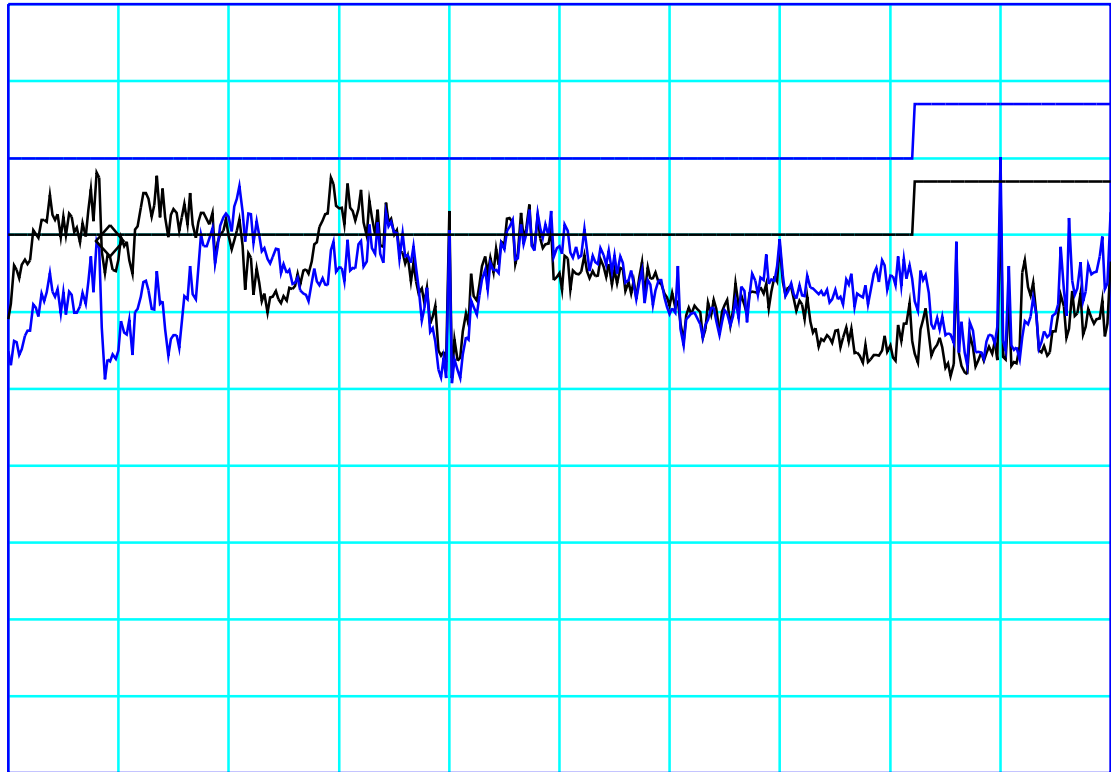10
dB/

V1 V2
S3

PA

Start 25MHz   Stop 275MH

RBW 120 kHz   VBW 300 kHz   Sweep 39.97mS (401 pts)

CF1:A5_FS_090306   CF2:CBL002_CBL003_090306

PLOT 4   Radiated Emissions

Company:	Arm	Product:	MBED-005.1
Date:	10/07/09	Test Eng:	Dave Smith
Method:		Method:	
Limit1:(BLK)	EN55022(B)@3m	Limit2:(BLU)	EN55022(A)@3m
Limit3:		Limit4:	

Black - vertical
Blue - horizontal

Two units - both connected to IBM Thinkpad via USB.
USB running mass storage class. Internal oscillators and PLLs all powered. Running 100MHz
networking with ethernet packets sent between both devices.

Facility:	Anech_1	Height	1m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H9610764		

Marker 1: 319.4MH

Ref 70 dBuV/m   Atten 5 dB   28.8dBuV/m

Log
10
dB/

V1   V2
S3

PA

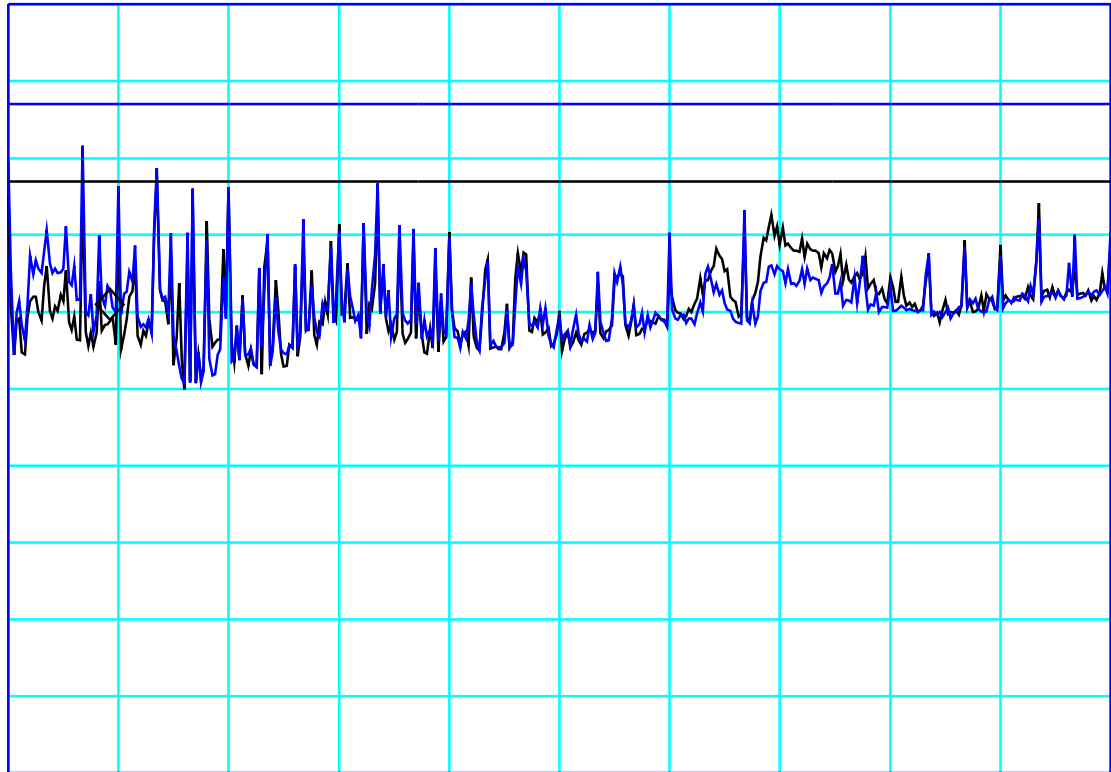Start 250MHz   Stop 1000MH
RBW 120 kHz   VBW 300 kHz   Sweep 119.9mS (401 pts)

CF1:A5_FS_090306   CF2:CBL002_CBL003_090306

PLOT 5   Radiated Emissions

Company:	Arm	Product:	MBED-005.1
Date:	10/07/09	Test Eng:	Dave Smith
Method:		Method:	
Limit1:(BLK)	EN55022(B)@3m	Limit2:(BLU)	EN55022(A)@3m
Limit3:		Limit4:	

Black - vertical
Blue - horizontal

Two units - both connected to IBM Thinkpad via USB.
USB running mass storage class. Internal oscillators and PLLs all powered. Running 100MHz
networking with ethernet packets sent between both devices.

Facility:	Anech_1	Height	1m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H9610769		

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Marker 1: 2.46GH

Ref 70 dBuV/m   Atten 0 dB   42.44dBuV/r
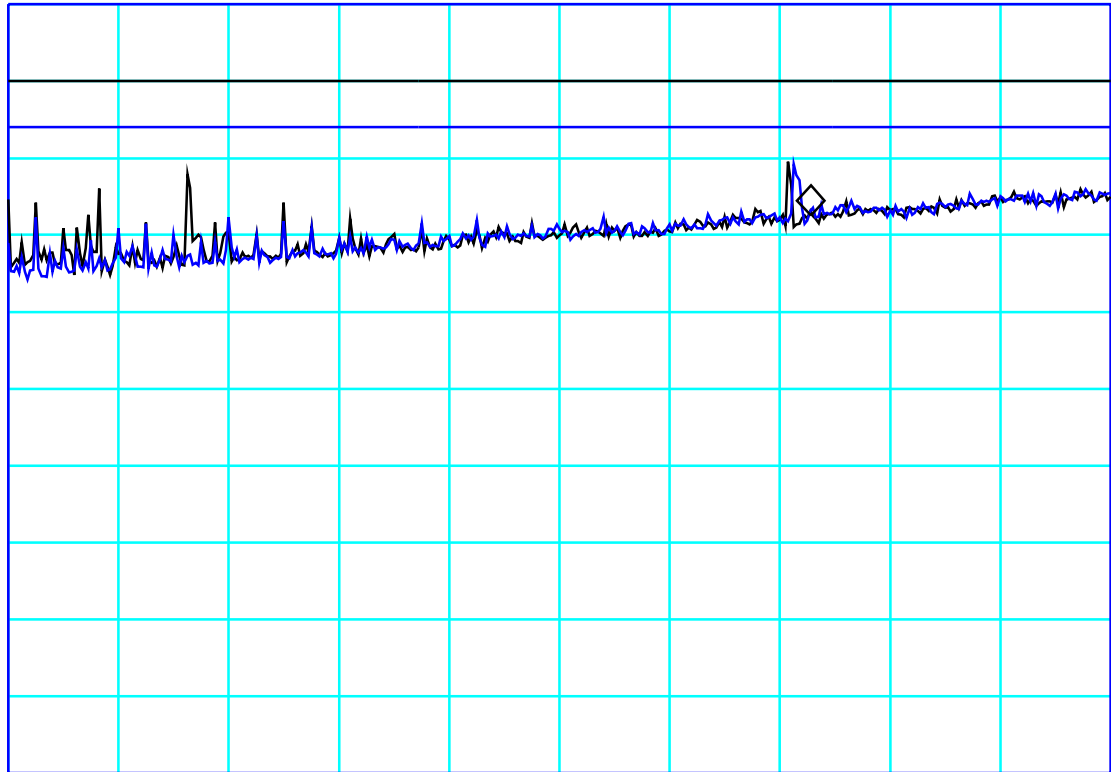
Log
10
dB/

V1 V2
S3

PA

Start 1000MHz   Stop 3GHz

RBW 1 MHz   VBW 3 MHz   Sweep 5.242mS (401 pts)

CF1:A8_3m_090306   CF2:CBL002_CBL003_090306

PLOT 6   Radiated Emissions

Company:	Arm	Product:	MBED-005.1
Date:	10/07/09	Test Eng:	Dave Smith
Method:		Method:	
Limit1:(BLK)	FCC(A)@3m	Limit2:(BLU)	FCC(B)@3m
Limit3:		Limit4:	

Black - vertical
Blue - horizontal

Two units - both connected to IBM Thinkpad via USB.
USB running mass storage class. Internal oscillators and PLLs all powered. Running 100MHz
networking with ethernet packets sent between both devices.

Facility:	Anech_1	Height	1m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H9610759		