




TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: e2v Technologies Ltd.
DA5823-032

To: FCC Part 15.245

Test Report Serial No:
RFI/MPTE1/RP47593JD04A

This Test Report Is Issued Under The Authority Of Andrew Brown, Operations Manager:	
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Tested By: Raul Recio 	Checked By: Steven Wong 
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1. Client Information

Company Name:	e2v Technologies Ltd.
Address:	Waterhouse Lane Chelmsford Essex CM1 2QU
Contact Name:	Ms S Ridler

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2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

2.1. Identification of Equipment Under Test (EUT)

Brand Name:	e2v Technologies
Model Name or Number:	DA5823-032
Unique Type Identification:	00789
Serial Number:	D32
FCC ID Number:	PW9DA5823
Country of Manufacture:	UK
Date of Receipt:	05 December 2005

2.2. Description of EUT

The equipment under test is a 2.45 GHz Microwave Sensor.

2.3. Modifications Incorporated in the EUT

During the course of testing the EUT was not modified.

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2.4. Additional Information Related to Testing

Power Supply Requirement:	DC supply of 12 V		
Intended Operating Environment:	Residential and Commercial		
Equipment Category:	Short Range (Low Power)		
Type of Unit:	Mobile (Vehicular Use, powered via vehicle regulated supply)		
Interface Ports:	IDC port (Used to program and power the EUT)		
Transmit Frequency Range:	2435 MHz to 2465 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Single	N/A	2450
Highest Unintentionally Generated Frequency:	2450		
Receive Frequency Range:	2435 MHz to 2465 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Single	N/A	2450
Highest Unintentionally Generated Frequency:	2450		
Highest Fundamental Frequency:	2450		
Occupied Bandwidth:	66.332 kHz		

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2.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	ECU Box
Brand Name:	Not Stated
Model Name or Number:	Not Stated
Serial Number:	Not Stated
Cable Length and Type:	30 cm, 3 x Single Core
Connected to Port:	IDC 10 Pin

Description:	12 V Battery
Brand Name:	Yuasa
Model Name or Number:	597-807
Serial Number:	0308143E
Cable Length and Type:	Not Applicable
Connected to Port:	IDC 10 Pin of ECU Box and MMS Test Box

Description:	MMS Test Box
Brand Name:	Not Stated
Model Name or Number:	Not Stated
Serial Number:	Not Stated
Cable Length and Type:	190 cm, 3 x Single Core
Connected to Port:	IDC 10 Pin

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3. Test Specification, Methods and Procedures

3.1. Test Specifications

Reference:	FCC Part 15 Subpart C: 2004 (Sections 15.245).
Title:	Code of Federal Regulations, Part 15 (47CFR215) Radio Frequency Devices.
Comments:	A description of the test facility used for this test is on file with, and has been accepted by, the Federal Communications Commission as required by Section 2.948 of Federal Rules.

3.2. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI/TIA-603-B-2003

Land Mobile Communications Equipment, Measurements and performance Standards

ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2001)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

DA00-705 (2000)

Title: Filing and Frequency Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

3.3. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the Methods & Procedures section above. Appendix 1 contains a list of the test equipment used.

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4. Deviations from the Test Specification

None.

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5. Operation of the EUT During Testing

5.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated.

Continuously transmitting with a CW signal.

5.2. Configuration and Peripherals

The EUT was tested in the following configuration:

The MMS Test Box was connected to the ECU box using a 3 single core cable with 10 pin IDC connectors and both units were powered by a 12 V DC supply. The EUT was connected to the ECU Box using a 3 single core cable with 10 pin IDC connector and it was programmed to transmit with a CW signal using the MMS Test Box.

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6. Summary of Test Results

Range of Measurements	Specification Reference	Port Type	Compliance Status
Transmitter Fundamental Fieldstrength	C.F.R. 47 FCC Part 15: 2004 Section 15.245(b)	Antenna	Complied
Transmitter 20 dB Bandwidth	C.F.R. 47 FCC Part 2: 2004 Section 2.1049	Antenna	Complied
Transmitter Radiated Spurious Emissions	C.F.R. 47 FCC Part 15: 2004 Section 15.245(b) & 15.209	Antenna	Complied
Transmitter Band Edge Radiated Emissions	C.F.R. 47 FCC Part 15: 2004 Section 15.245(b) & 15.209	Antenna	Complied

6.1. Location of Tests

All the measurements described in this report were performed at the premises of
RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, England.
RFI Global Services Ltd, Ashwood Park, Ashwood Way, Basingstoke, Hampshire, RG23 8BG, England

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7. Measurements, Examinations and Derived Results

7.1. General Comments

7.1.1. This section contains test results only.

7.1.2. Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 8 for details of measurement uncertainties.

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7.2. Transmitter Fundamental Fieldstrength Section 15.245(b)

7.2.1. The EUT was configured for radiated emissions testing as described in Section 9 of this report.

7.2.2. Tests were performed to identify the maximum fieldstrength of the fundamental frequency.

Results:

Battery Powered Devices

Peak Level

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Antenna Factor (dB)	Cable Loss (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2446.063	Vert.	54.9	21.3	9.6	85.8	134.0	48.2	Complied

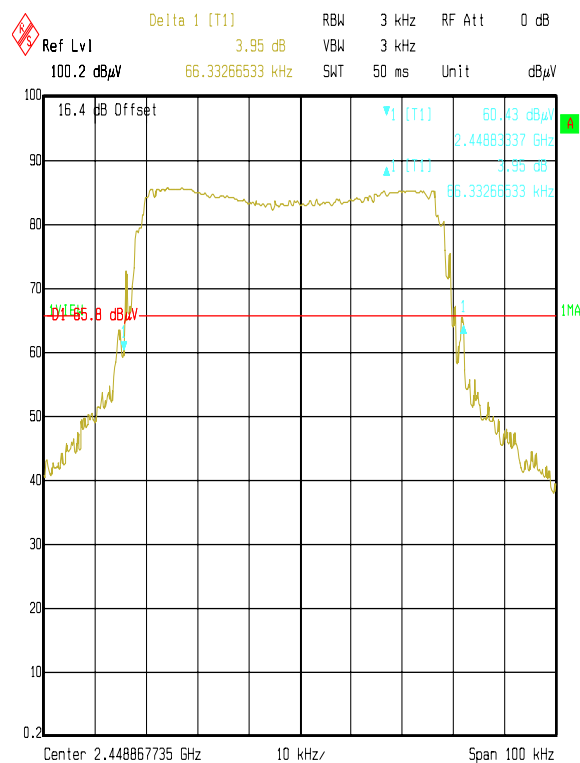
Average Level

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Antenna Factor (dB)	Cable Loss (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2446.063	Vert.	54.5	21.3	9.6	85.4	114.0	28.6	Complied

7.3.Transmitter 20 dB Bandwidth: Section 2.1049

7.3.2. Tests were performed to identify the 20 dB bandwidth.

Transmitter 20 dB Bandwidth (kHz)
66.332



Comment A: e2v DA5823-032. 20 dB Bandwidth
Date: 08.DEC.2005 17:59:12

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7.4. Transmitter Radiated Emissions: Section 15.245(b) & Section 15.209

7.4.1. Electric Field Strength Measurements: 30 to 1000 MHz

7.4.1.1. The EUT was configured for radiated emissions testing as described in Section 9 of this report.

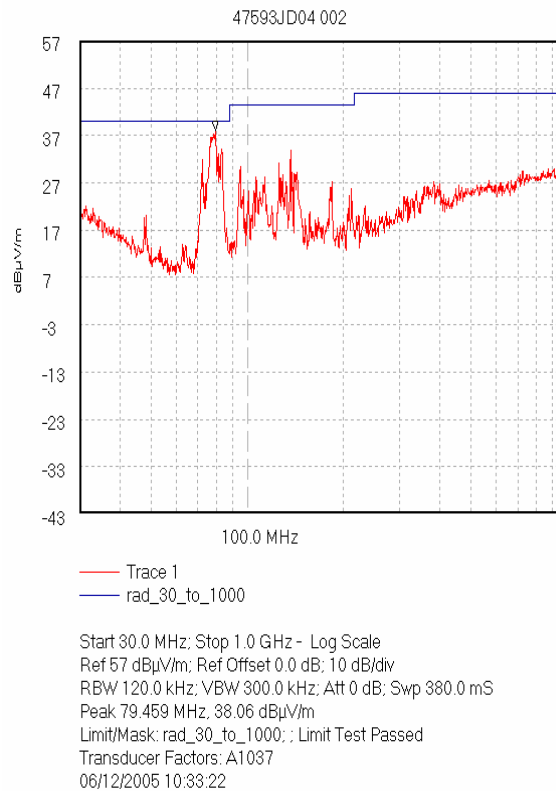
7.4.1.2. Tests were performed to identify the maximum radiated spurious emission levels.

Results:

Frequency (MHz)	Antenna Polarity	Q-P Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
71.9103	Vert.	10.8	40.0	29.2	Complied
78.7888	Vert.	11.0	40.0	29.0	Complied
81.3419	Vert.	12.3	40.0	27.7	Complied
114.6605	Vert.	19.5	43.5	24.0	Complied
126.5223	Vert.	15.8	43.5	27.7	Complied
136.2203	Vert.	13.4	43.5	30.1	Complied
144.7843	Vert.	14.4	43.5	29.1	Complied
183.6263	Vert.	10.9	43.5	32.6	Complied
387.7026	Vert.	19.0	46.0	37.0	Complied

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Transmitter Radiated Emissions: Section 15.245(b) & Section 15.209 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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7.4.2. Electric Field Strength Measurements: 1 to 25 GHz

Results:

Highest Peak Level:

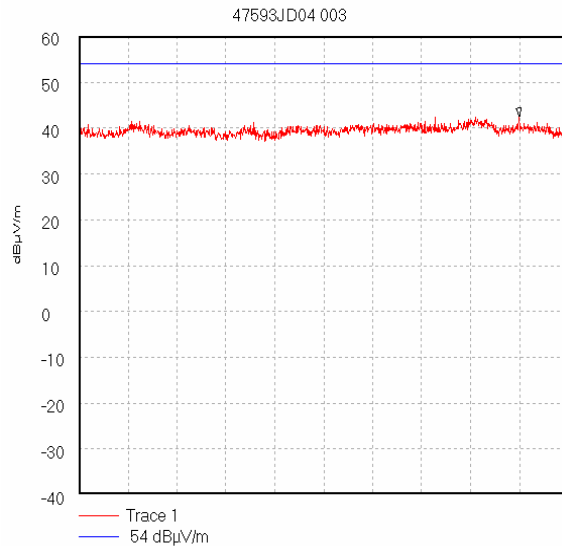
Frequency (MHz)	Antenna Polarity	Detector Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Actual Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
4888.383	Horiz.	23.2	24.2	3.4	50.8	74.0	23.2	Complied
7334.850	Horiz.	18.2	26.9	3.7	48.8	74.0	25.2	Complied
9782.967	Horiz.	18.2	30.6	3.7	52.5	74.0	21.5	Complied
12229.190	Vert.	18.3	30.8	3.7	52.8	74.0	21.2	Complied
14675.050	Horiz.	11.3	33.8	4.1	49.2	74.0	24.8	Complied
17120.573	Horiz.	7.5	33.8	4.4	45.7	74.0	24.3	Complied
19567.043	Horiz.	2.7	37.1	4.4	44.2	74.0	25.8	Complied
22012.867	Horiz.	8.0	37.2	4.6	49.8	74.0	24.2	Complied
24458.768	Horiz.	4.2	37.2	4.9	46.3	74.0	27.7	Complied

Highest Average Level:

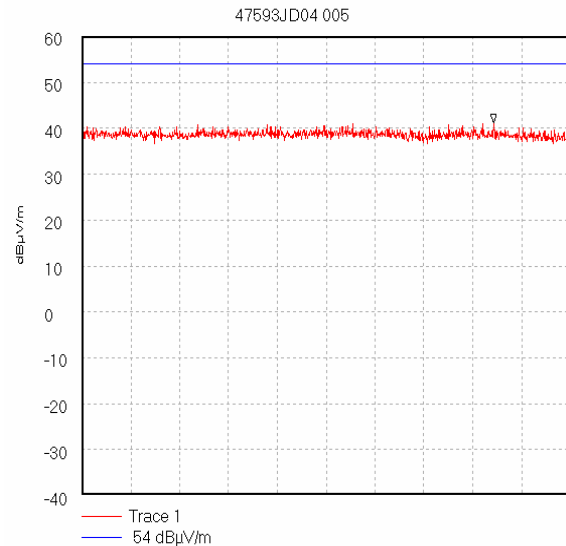
Frequency (MHz)	Antenna Polarity	Detector Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Actual Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
4888.424	Horiz.	21.9	24.2	3.4	49.5	54.0	4.5	Complied
7334.852	Horiz.	18.2	26.9	3.7	48.5	54.0	4.5	Complied
9782.931	Horiz.	18.0	36.6	3.7	52.3	54.0	1.7	Complied
12229.183	Vert.	18.2	30.6	3.7	52.7	54.0	1.3	Complied
14674.972	Horiz.	10.4	33.8	4.1	48.3	54.0	5.7	Complied
17120.452	Horiz.	4.8	33.8	4.4	43.0	54.0	11.0	Complied
19567.043	Horiz.	1.9	37.1	4.4	43.4	54.0	10.6	Complied
22012.866	Horiz.	6.0	37.2	4.6	47.8	54.0	6.2	Complied
24458.796	Horiz.	0.1	37.2	4.9	42.2	54.0	11.8	Complied

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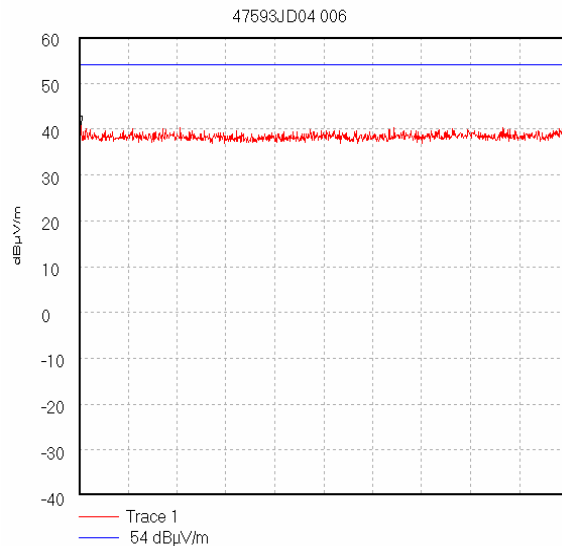
Transmitter Radiated Emissions: Section 15.245(b) & Section 15.209 (Continued)



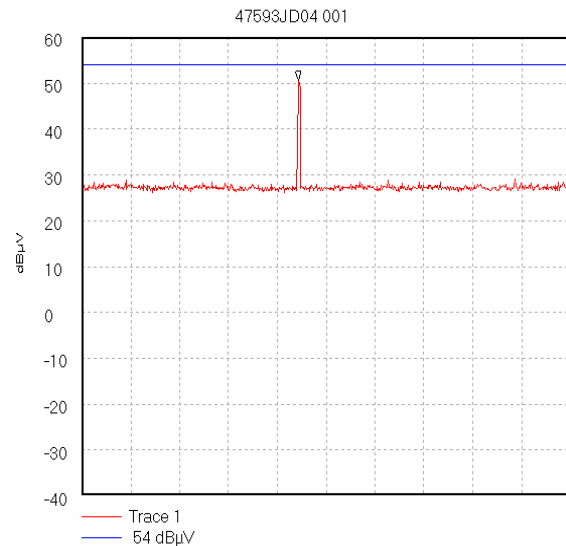
Start 1.0 GHz; Stop 2.0 GHz
Ref 60 dBμV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS
Peak 1.9 GHz, 42.48 dBμV/m
Display Line: 54 dBμV/m; ; Limit Test Passed
Transducer Factors: 1 to 2
06/12/2005 11:09:52



Start 2.0 GHz; Stop 2.435 GHz
Ref 60 dBμV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS
Peak 2.367 GHz, 41.16 dBμV/m
Display Line: 54 dBμV/m; ; Limit Test Passed
Transducer Factors: 2 to 4
06/12/2005 11:24:19



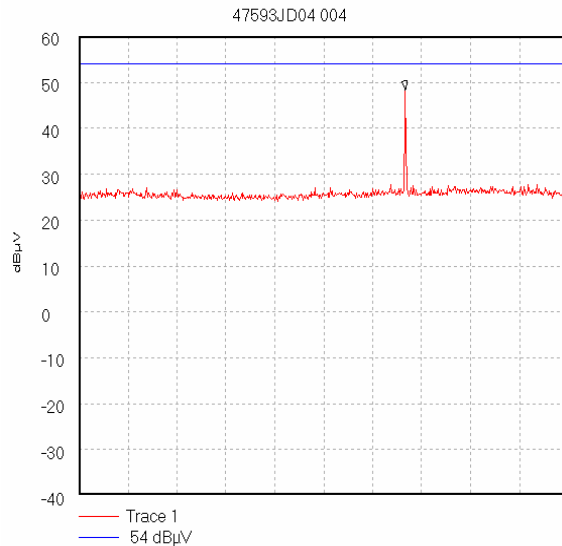
Start 2.465 GHz; Stop 4.0 GHz
Ref 60 dBμV/m; Ref Offset 0.0 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS
Peak 2.47 GHz, 40.76 dBμV/m
Display Line: 54 dBμV/m; ; Limit Test Passed
Transducer Factors: 2 to 4
06/12/2005 11:25:11



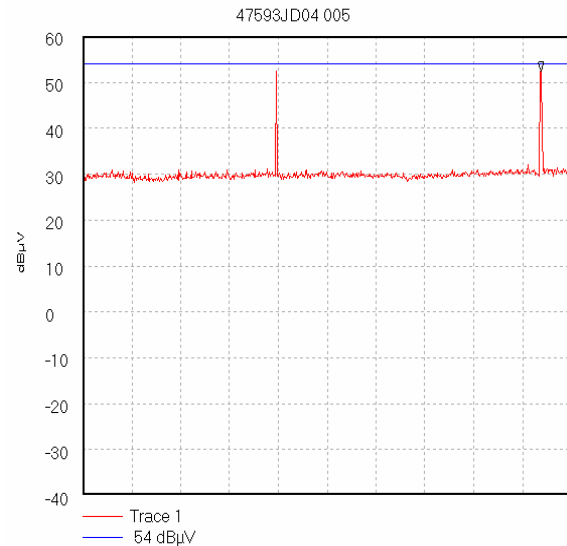
Start 4.0 GHz; Stop 6.0 GHz
Ref 60 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 50.0 mS
Peak 4.886667 GHz, 50.67 dBμV
Display Line: 54 dBμV; ; Limit Test Passed
Transducer Factors: 4G-6G_Horn(@1m,3m_cable,A1534)
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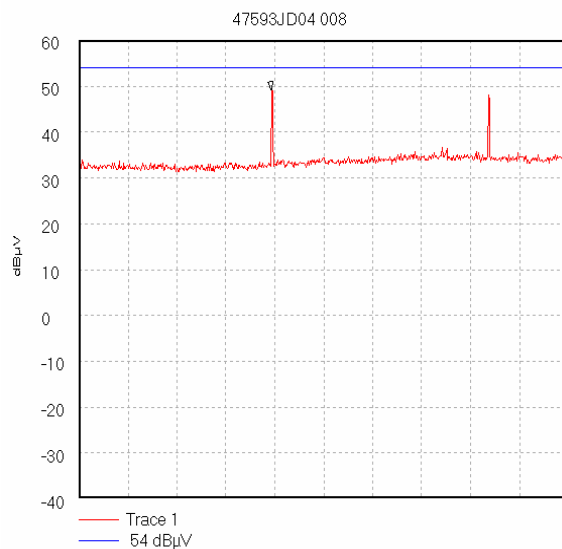
Transmitter Radiated Emissions: Section 15.245(b) & Section 15.209 (Continued)



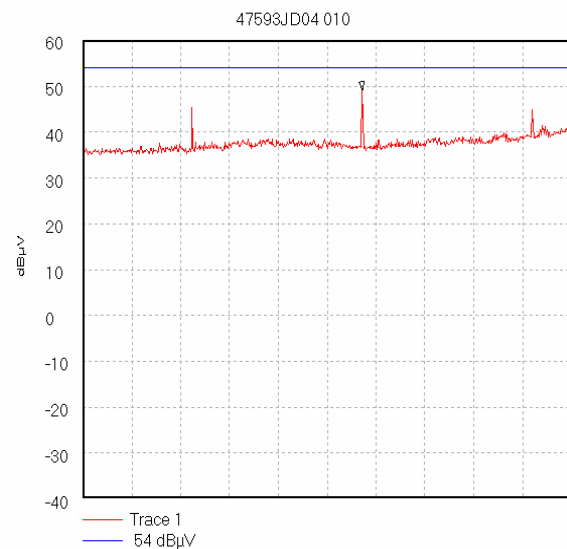
Start 6.0 GHz; Stop 8.0 GHz
Ref 60 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 50.0 mS
Peak 7.333333 GHz, 48.33 dBμV
Display Line: 54 dBμV; Limit Test Passed
Transducer Factors: 6G-8G_Horn(@0.7m,3m_cable,A1534)
07/12/2005 11:03:26



Start 8.0 GHz; Stop 12.5 GHz
Ref 60 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 90.0 mS
Peak 12.2225 GHz, 52.5 dBμV
Display Line: 54 dBμV; Limit Test Passed
Transducer Factors: 8G-12.5G_Horn(@0.7m,3m_cable,A1534)
07/12/2005 11:13:48



Start 12.5 GHz; Stop 18.0 GHz
Ref 60 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 110.0 mS
Peak 14.663333 GHz, 49.17 dBμV
Display Line: 54 dBμV; Limit Test Passed
Transducer Factors: 12.5-18G_Horn(@0.5m,3m_cable,A1534)
07/12/2005 12:00:13



Start 18.0 GHz; Stop 25.0 GHz
Ref 60 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 140.0 mS
Peak 22.001667 GHz, 49.17 dBμV
Display Line: 54 dBμV; Limit Test Passed
Transducer Factors: 18-26.5_Horn(@0.5m,3m_cable,A1534)
07/12/2005 12:22:43

Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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7.5. Transmitter Radiated Emissions at Band Edges: Section 15. 245(b) & 15.209

7.5.1. Electric Field Strength Measurements

7.5.1.1. The EUT was configured for transmitter radiated emissions testing described in Section 9 of this report.

7.5.1.2. Tests were performed to identify the maximum radiated band edge emissions.

Results:

Peak Power Level:

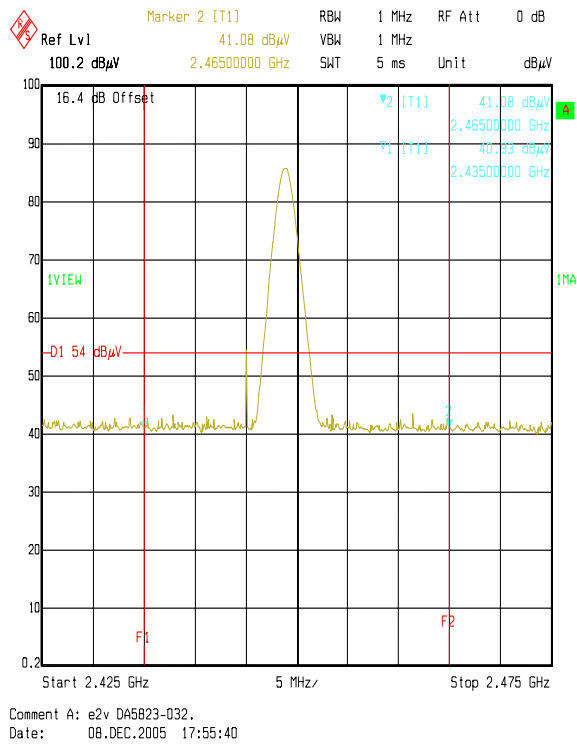
Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Antenna Factor (dB)	Cable Loss (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2435	Vert.	10.2	21.3	9.6	41.1	74.0	32.9	Complied
2465	Vert.	10.1	21.3	9.6	41.0	74.0	33.0	Complied

Average Power Level:

Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Antenna Factor (dB)	Cable Loss (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2435	Vert.	-1.8	21.3	9.6	29.1	54.0	24.9	Complied
2465	Vert.	-2.1	21.3	9.6	28.8	54.0	25.2	Complied

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Transmitter Radiated Emissions at Band Edges: Section 15. 245(b) & 15.209 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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8. Measurement Methods

8.1. Radiated Emissions

Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

Initial measurements covering the entire measurement band in the form of swept scans in a shielded enclosure were performed in order to identify frequencies on which the EUT was generating interference. This determined the frequencies on which the EUT should be re-measured in full on the open area test site. In order to minimise the time taken for the swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates.

The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. Following the initial scans, graphs were produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. Any emission within 20 dB of the limit were then measured on the open area test site, except in cases where the noise floor was within 20 dB of the limit, in these cases the highest point of the noise floor was measured.

In either case the measurement was made at the appropriate distance using a measuring receiver with a Quasi-Peak detector for measurements below 1000 MHz and an Average detector for measurements above 1000 MHz.

For the final measurements the EUT was arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2001 Clause 5.4.

All measurements on the open area test site were performed using broadband antennas.

On the open area test site, at each frequency where a signal was to be measured, the trace was maximised by rotating a turntable through 360°. The angle at which the maximum signal was observed was locked out. For frequencies below 1000 MHz the test antenna was varied in height between 1 m and 4 m in order to further maximise the target emission.

For frequencies above 1000 MHz where a horn antenna was used, height searching was performed to locate the optimal height of the horn with respect to the EUT. At this point the horn was locked off and the turntable was again rotated through 360° to maximise the target signal. It should be noted that the received signal from the EUT would diminish very quickly after it exits the beam width of the horn antenna, for this reason it may not be necessary to fully height search with the horns.

At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT.

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Radiated Emissions (Continued)

Scans were performed to the upper frequency limits as stated in Section 15.33

The final field strength was determined as the indicated level in dB μ V plus cable loss and antenna factor.

The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements Below 1 GHz	Final Measurements Above 1 GHz
Detector Type:	Peak	Quasi-Peak (CISPR)	Peak / Average
Mode:	Max Hold	Not applicable	Max Hold
Bandwidth:	(120 kHz < 1 GHz) (1 MHz > 1 GHz)	120 kHz	1 MHz
Amplitude Range:	100 dB	100 dB	100 dB
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

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8.2. Transmitter 20 dB Bandwidth

The EUT and spectrum analyser was configured for transmitter radiated emissions measurements.

To determine the occupied bandwidth, a resolution bandwidth of 3 kHz was used, which is greater than 1% of the 20 dB bandwidth. A video bandwidth of at least the same value was used. The analyser was set for a maximum hold scan to capture the profile of the signal. The peak level was then determined, and a reference line was drawn 20 dB below the peak level. The bandwidth was determined at the points where the 20 dB reference crossed the profile of the emission.

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9. Measurement Uncertainty

9.1. No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

9.2. The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

9.3. The uncertainty of the result may need to be taken into account when interpreting the measurement results.

9.4. The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Occupied Bandwidth	N/A	95%	+/- 0.12 %
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	+/- 5.26 dB
Radiated Spurious Emissions	1 GHz to 40 GHz	95%	+/- 2.94 dB

9.5. The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

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Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.
A029	Frequency Doubler	Hewlett-Packard	11721A	1950 A01794
A031	Horn Antenna	Eaton	91889-2	557
A1037	Bilog Antenna	Chase EMC Ltd	CBL6112B	2413
A1534	Preamplifier 1-26.5 GHz	Hewlett Packard	8449B OPT H02	3008A00405
A255	WG 16 Horn	Flann	16240-20	519
A427	WG 14 horn	Flann	14240-20	150
A430	WG 18 horn	Flann	18240-20	425
A436	WG 20 horn	Flann	20240-20	330
C1163	1m N-Type Cable	Rosenberger Micro-Coax	FA210A1010007070	43187-1
C1164	1.5m N-type Cable	Rosenberger Micro-Coax	FA210A1015007070	43188-1
C1165	2m N-Type Cable	Rosenberger Micro-Coax	FA210A1020007070	43189-1
C1166	2m N-Type Cable	Rosenberger Micro-Coax	FA210A1020007070	43189-02
C387	Cable	Rosenberger	UFB 293B-1-0720-50x51 FSCM 64639	97B1011
L0802	Environmental Chamber	Gallenkamp Industrial	FE300.T.R75	6974
M1008	Spectrum Analyser	Hewlett Packard	8563E	3551A04412
M1242	Spectrum Analyser	Rohde & Schwarz, Inc.	FSEM30	845986_022
M128	DVM	Fluke	76	65340273
M165	Thermocouple Meter	RS Components	206-3738	63101536
S201	Site 1	RFI	1	
S202	Site 2	RFI	2	S202-15011990
S212	Site 12	RFI	12	
S505	PSU	Weir	4000	964214/164

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

Test of: e2v Technologies Ltd.
DA5823-032
To: FCC Part 15.245

Appendix 2. Test Configuration Drawing

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\47593JD04\EMIRAD	Test configuration for measurement of radiated emissions.

Test of: e2v Technologies Ltd.
DA5823-032
To: FCC Part 15.245

DRGV47593JD04\EMIRAD

