



FCC
Test Report
for
Workabout Pro 7525C with 125kHz ACG RFID,
Charging cradle & AC/DC Adapter
7525C, LF-AH1-A1, WA4002, LSE9912B0515

Report Number 06-607/2813/2/05

Report Produced by: -

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2. Summary of Test Results

The Workabout Pro 7525C with 125kHz ACG RFID, Charging cradle & AC/DC Adapter 7525C, LF-AH1-A1, WA4002, LSE9912B0515 was tested to the following standards: -

FCC Part 15C (effective date March 11, 2005); Class DCD Transmitter

Title	Reference	Results
1. Conducted Emissions	FCC Part 15 Class DCD Transmitter	PASSED
2. Radiated Emissions	FCC Part 15 Class DCD Transmitter	PASSED

Date of Test: 24th - 31st May 2005

Test Engineer:

Approved By:

Customer Representative:

Steve Lucas

3. Information about Equipment under Test

Manufacture of EUT Psion Teklogix UK Ltd
Bourne End Business Centre
Cores End Road
Buckinghamshire
SL8 5AS

Full name of EUT **Workabout Pro 7525C with 125kHz ACG RFID, Charging cradle & AC/DC Adapter**

Model Number of EUT Workabout Pro, **7525C**,
ACG 125kHz RFID, **LF-AH1-A1**
Docking Station, **WA4002**
AC/DC Adaptor, **LSE9912B0515**

Serial Number of EUT **7525C, 1247G035438**,
ACG 125kHz RFID, no S/N available
Docking Station, **1248D001868**,
AC/DC Adaptor, **A30417059761**

FCC ID (if applicable): **GM3LFAH1**

Date when equipment was received by RN Electronics Limited 24th May 2005

Date of test: 24th - 31st May 2005

Customer order number: 108895

A visual description of the EUT is as follows: The Workabout Pro 7525C is a colour portable PC and included an MMC & CF memory card. It also had a Lithium Ion polymer rechargeable battery pack, laser scanner unit (SE1223) and bluetooth module. The 125kHz ACG RFID coupler consisted of an Antenna and Tag RFID PCB / interface PCB. Supplied with the unit is a docking station and AC/DC adaptor.

The main function of the EUT is to: Handheld terminal with RFID module

Equipment under Test Information specification

Height	220mm
Width	100mm
Depth	45mm
Weight	0.5kg
Voltage	230/110Vac
Current required from above voltage source	<1.0A

Description of ancillary equipment connected to the equipment under test, for the purpose of tests, can be found in Section 11.

Any modifications made to the **Workabout Pro 7525C with 125kHz ACG RFID, Charging cradle & AC/DC Adapter 7525C, LF-AH1-A1, WA4002, LSE9912B0515**, whilst under test, can be found in Section 12.

This report was printed on: 15 June 2005

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4. **Specifications**

The tests were performed by RN Electronics Engineer Daniel Sims who set up the tests, the test equipment, and operated it in accordance with the **R.N. Electronics Ltd** procedures manual and FCC Part 15.

5. Tests, Methods and Results

5.1 Conducted Emissions

5.1.1 Test Methods

Test Requirements FCC Part 15C, Class DCD Reference (15.207)

Test Method: FCC Part 15C, Class DCD Reference (15.207)

5.1.1.1 Configuration of EUT

The EUT was connected to the LISN, and operated in the mode found to produce the highest emissions.

5.1.1.2 Test Procedure

Tests were made in accordance with FCC Part 15 using the measuring equipment noted in the 'Test Equipment' Section. The equipment under test was powered via a mains LISN with a mains lead of 1 metre. Any excess mains lead was placed in a 400mm bundle.

5.1.1.3 Test results

Tests were performed using Test Site F.

Temperature of test Environment: 18°C

Analyser plots for the Quasi-Peak Values and any table of signals within 20dB of the limit line can be found in Section 6.1 of this report.

Analyser plots for the Average values and any table of signals within 20dB of the limit line can be found in Section 6.1 of this report.

These results show that the **Workabout Pro 7525C with 125kHz ACG RFID, Charging cradle & AC/DC Adapter 7525C, LF-AH1-A1, WA4002, LSE9912B0515** has **PASSED** this test.

5.1.1.4 Test Equipment used

E10, E1, E35, TMS952

See Section 10 for more details.

5.2 Radiated Emissions

5.2.1 Test Methods

Test Requirements	FCC Part 15C, Class DCD Reference (15.209)
Test Method:	FCC Part 15b, Class DCD Reference (15.209)

5.2.1.1 Configuration of EUT

The EUT was placed on a 0.8 metres high turntable. The front edge of the EUT was initially positioned facing the antenna. The EUT was measured at a distance of 3 metres. EUT was operated with RFID, Scanner and Bluetooth functions simultaneously. Tests were repeated with and without the docking cradle. Peripherals were connected to the docking cradle (mouse and USB).

5.2.1.2 Test Procedure

Tests were made in accordance with FCC Part 15 using the measuring equipment noted below.

Above 30MHz, measurements were made in a semi-anechoic chamber (pre-scan) with final measurements on an OATS. Test sites 'M' and 'OATS' have been listed with the FCC. The equipment was rotated 360° and the antenna scanned 1 – 4 metres in both horizontal and vertical polarisations to record the worst case emissions.

Below 30MHz, measurements were made in a semi-anechoic chamber (pre-scan) with final measurements on an OATS without a ground plane. The antenna was placed 1m above the ground. The equipment and the antenna were rotated 360° to record the worst case emissions.

At least 6 signals within 20dB and all signals within 20dB of the limit were investigated.

5.2.1.3 Test results

Tests were performed using Test Site **M & OATS**.

Test Environment:

M	Temperature: 20°C	Humidity: 50 %
OATS	Temperature: 20°C	Humidity: 78 %

Analyser plots for the Quasi-Peak values and any table of signals within 20dB of the limit line can be found in Section 6.2 of this report.

These show that the **Workabout Pro 7525C with 125kHz ACG RFID, Charging cradle & AC/DC Adapter 7525C, LF-AH1-A1, WA4002, LSE9912B0515** has **PASSED** this test.

5.2.1.4 Test Equipment used

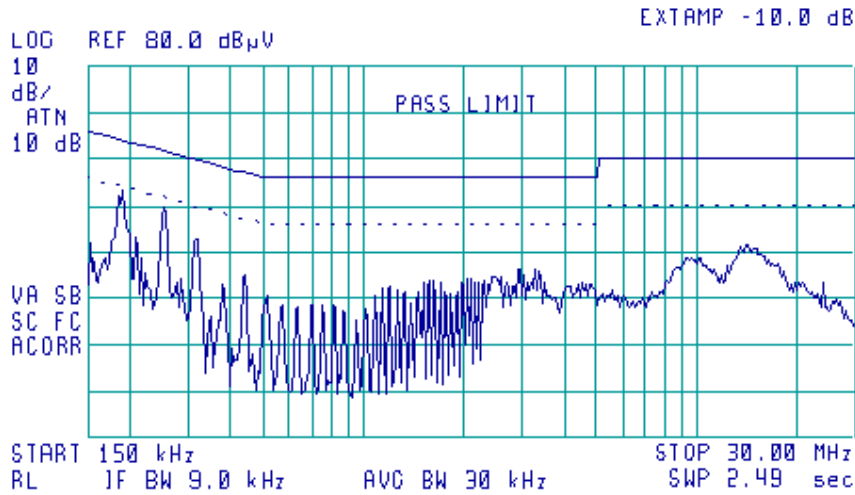
TMS81, E1, E226, E3, TMS82, TMS933, E136

See Section 10 for more details

6. Plots and Results
6.1 Conducted Emissions



11:11:14 JUL 23, 2003 15:16:15 APR 15, 2004
ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-peak values of mains live feed

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-Peak Live

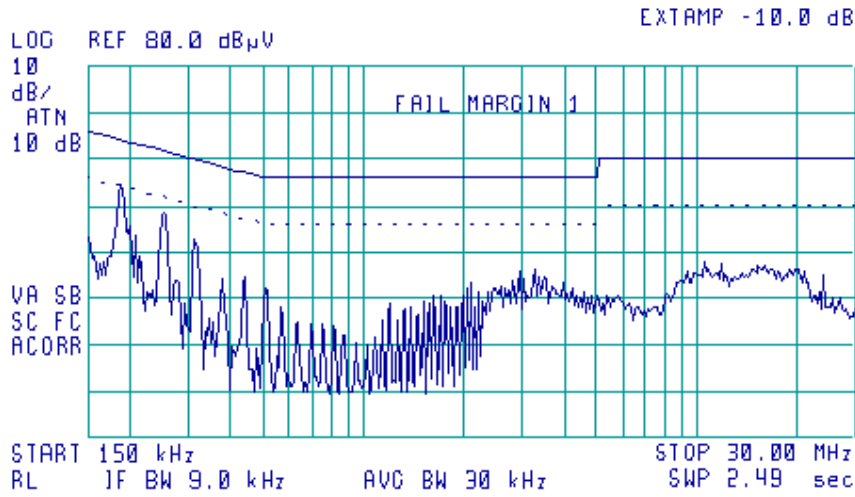
Signal	Freq (MHz)	Peak Amp (dBuV)	Peak - Lim1 (dB)	QP Amp (dBuV)	QP - Lim1 (dB)
1	0.191915	55.16	-8.80	53.43	-10.53

Measurement Uncertainty of ± 3.6 dB Applies



11:11:14 JUL 23, 2003 15:16:15 APR 15, 2004

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-peak values of mains neutral feed

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-peak Neutral

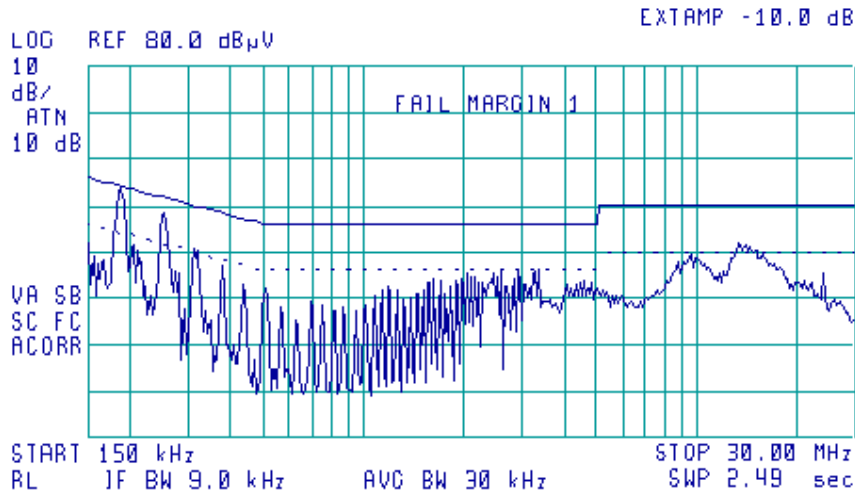
Signal	Freq (MHz)	Peak Amp (dBuV)	Peak - Lim1 (dB)	QP Amp (dBuV)	QP - Lim1 (dB)
1	0.191157	54.94	-9.05	52.51	-11.48

Measurement Uncertainty of ± 3.6 dB Applies



11:11:14 JUL 23, 2003 11:13:07 JUL 23, 2003

ACTV DET: PEAK
MEAS DET: PEAK AVG



Average values of mains live feed

The plot shows a swept response of peak values using the average limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Live

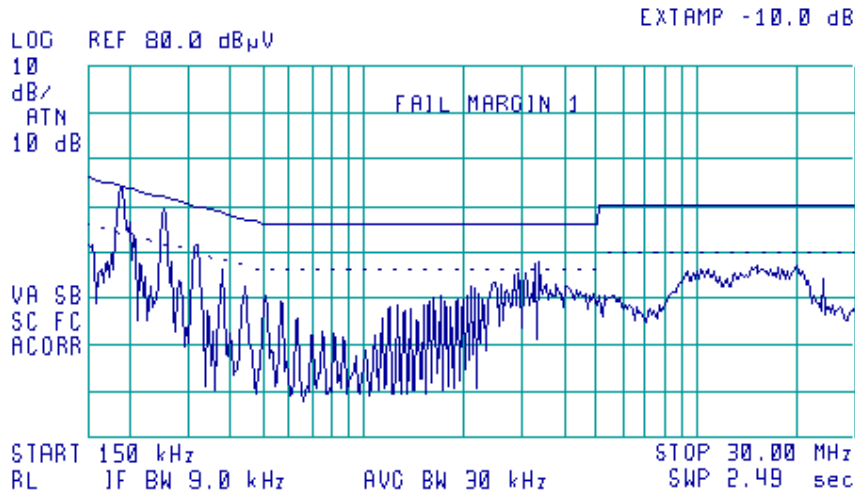
Signal	Freq (MHz)	Peak Amp (dBuV)	Peak - Lim1 (dB)	Avg Amp (dBuV)	Avg - Lim1 (dB)
1	0.190750	54.57	0.56	45.07	-8.94
2	0.191486	54.40	0.42	45.90	-8.08
3	0.254500	50.00	-1.65	45.38	-6.27
4	0.255599	49.95	-1.67	45.43	-6.19
5	3.122650	37.65	-8.35	27.09	-18.91
6	3.378228	37.39	-8.61	29.26	-16.74
7	9.752196	40.16	-9.84	34.50	-15.50
8	13.257993	41.05	-8.95	35.85	-14.15
9	13.894778	42.70	-7.30	35.40	-14.60
10	13.580040	42.08	-7.92	34.67	-15.33
11	13.959040	42.24	-7.76	34.92	-15.08
12	14.023895	42.62	-7.38	35.33	-14.67
13	14.538600	42.25	-7.75	32.22	-17.78
14	14.279848	43.17	-6.83	34.83	-15.17
15	14.787010	41.39	-8.61	32.54	-17.46
16	14.664280	42.06	-7.94	33.82	-16.18
17	15.112063	42.23	-7.77	33.30	-16.70
18	15.106485	41.35	-8.65	31.92	-18.08

Measurement Uncertainty of ± 3.6 dB Applies



11:11:14 JUL 23, 2003 11:13:07 JUL 23, 2003

ACTV DET: PEAK
MEAS DET: PEAK AVG



Average values of mains neutral feed

The plot shows a swept response of peak values using the average limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Neutral

Signal	Freq (MHz)	Peak Amp (dBuV)	Peak - Lim1 (dB)	Avg Amp (dBuV)	Avg - Lim1 (dB)
1	0.191703	54.20	0.23	45.93	-8.04
2	0.255046	49.63	-2.01	45.42	-6.22
3	0.318938	43.58	-6.18	35.61	-14.15
4	0.383799	38.08	-10.14	29.58	-18.64
5	3.252610	38.06	-7.94	29.77	-16.23
6	3.381513	38.62	-7.38	30.77	-15.23
7	3.444580	37.67	-8.33	29.79	-16.21
8	3.445390	37.56	-8.44	30.20	-15.80

Measurement Uncertainty of ± 3.6 dB Applies

6.2 Radiated Emissions

Handheld.



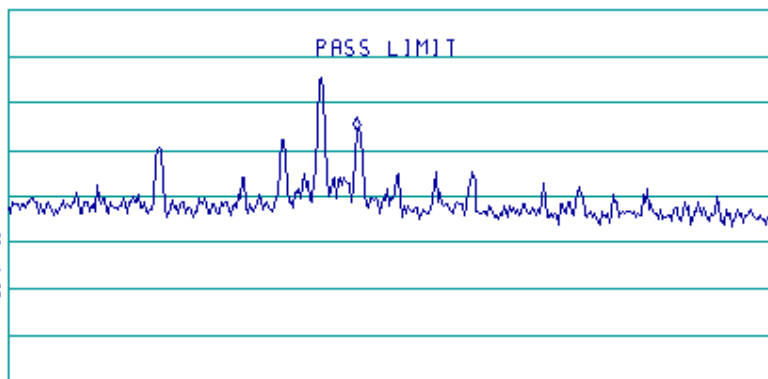
11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK AVC
MKR 126.76 kHz
55.90 dB μ V/m

LOG REF 82.0 dB μ V/m

10
dB/
#ATN
0 dB

VA SB
SC FC
ACORR



START 110.00 kHz STOP 150.00 kHz
RL #1F BW 200 Hz AVC BW 300 Hz SWP 5.99 sec

Average Values of 110 kHz. to 150 kHz.

Parallel Polarisation

The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Parallel

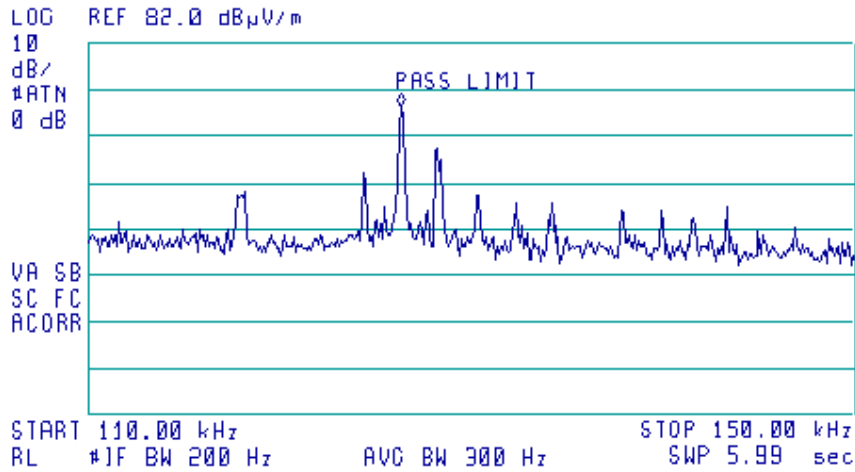
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK AVC
MKR 124.83 kHz
68.28 dB μ V/m



Average Values of 110 kHz. to 150 kHz. Perpendicular Polarisation

The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

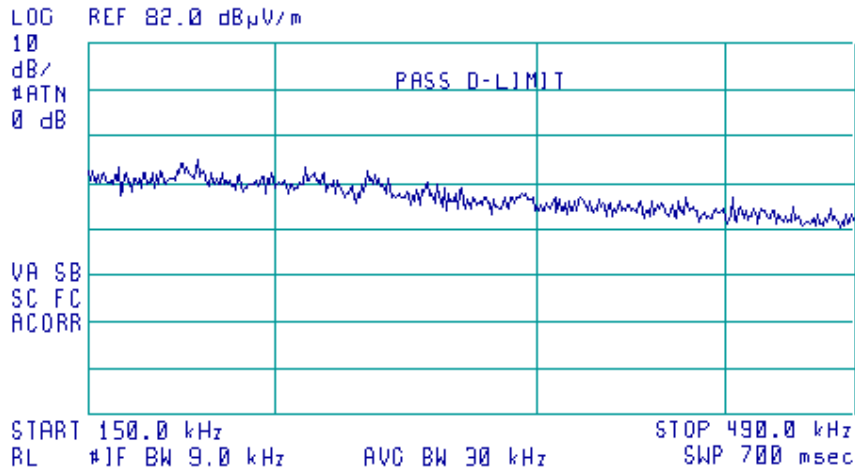
Table of signals within 20dB of the limit line for Average Perpendicular

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003
ACTV DET: PEAK
MEAS DET: PEAK AVC



Quasi-Peak Values of 150 kHz. to 490 kHz. Parallel Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-Peak Parallel

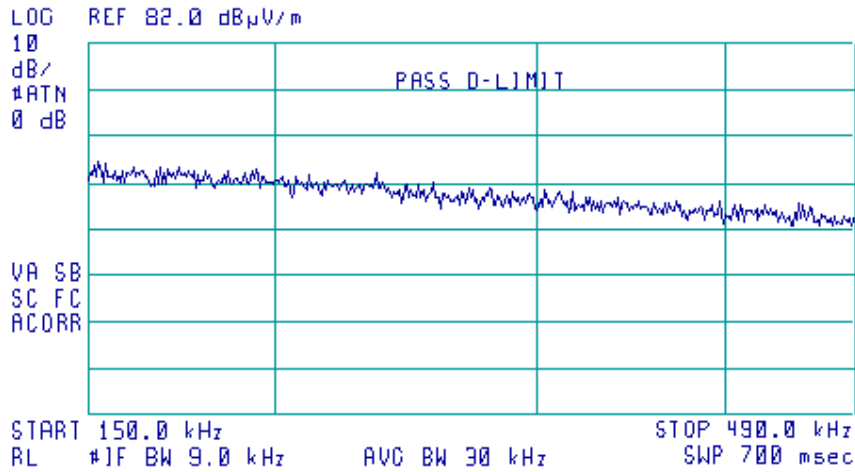
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK AVC



Quasi-Peak Values of 150 kHz. to 490 kHz. Perpendicular Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-peak Perpendicular

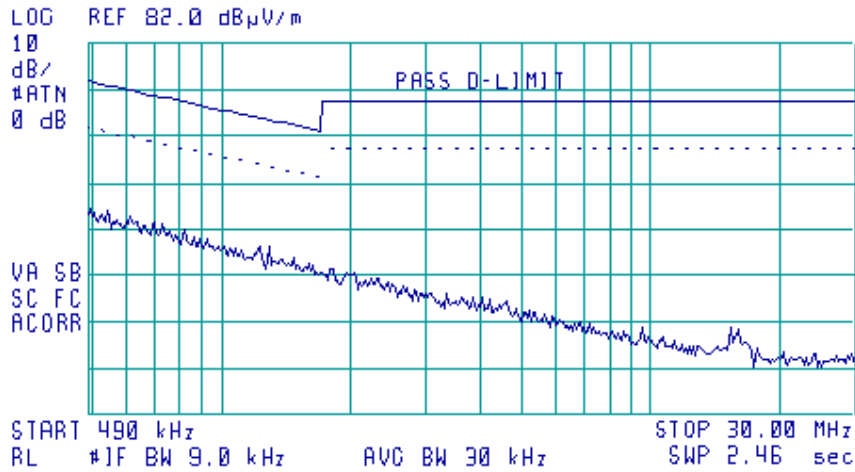
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 490 kHz. to 30 MHz. Parallel Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-Peak Parallel

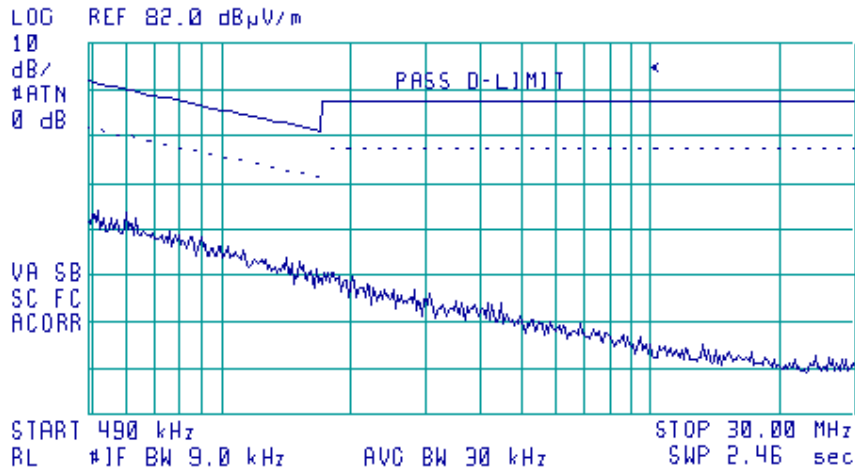
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peaks Values of 490 kHz. to 30 MHz. Perpendicular Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-peak Perpendicular

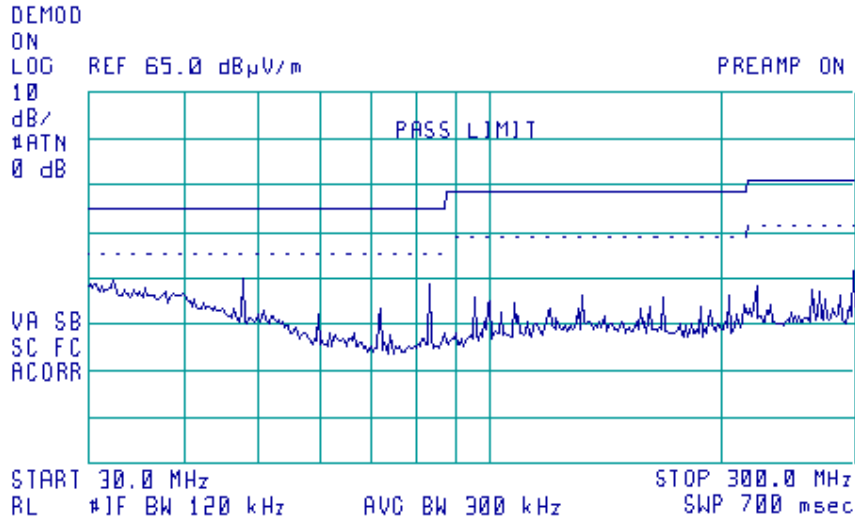
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:35:11 JAN 29, 2004

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 30 MHz. to 300 MHz. Horizontal Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-Peak Horizontal

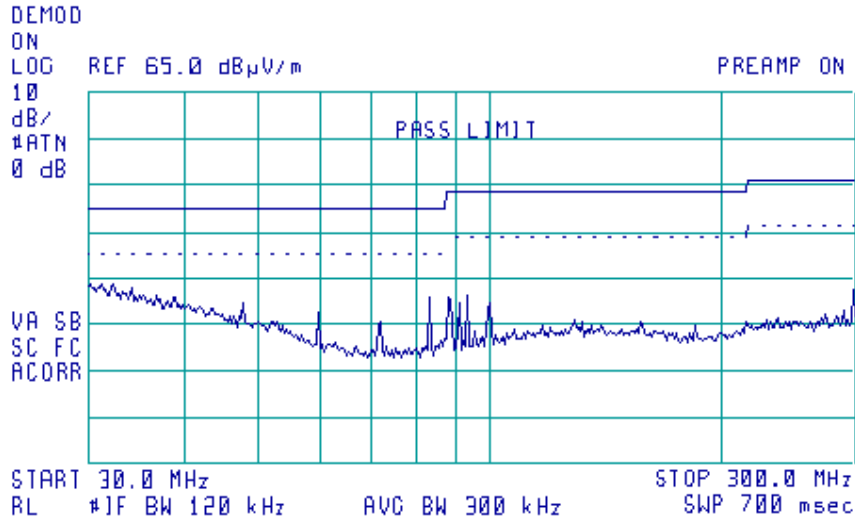
Signal	Freq (MHz)	Peak Amp (dBuV/m)	Peak - Lim1 (dB)	QP Amp (dBuV/m)	QP - Lim1 (dB)
1	83.997863	24.92	-15.08	23.12	-16.88
2	48.005288	26.78	-13.22	23.93	-16.07
3	298.616300	29.07	-16.93	25.96	-20.04

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:35:11 JAN 29, 2004

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 30 MHz. to 300 MHz. Vertical Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-peak Vertical

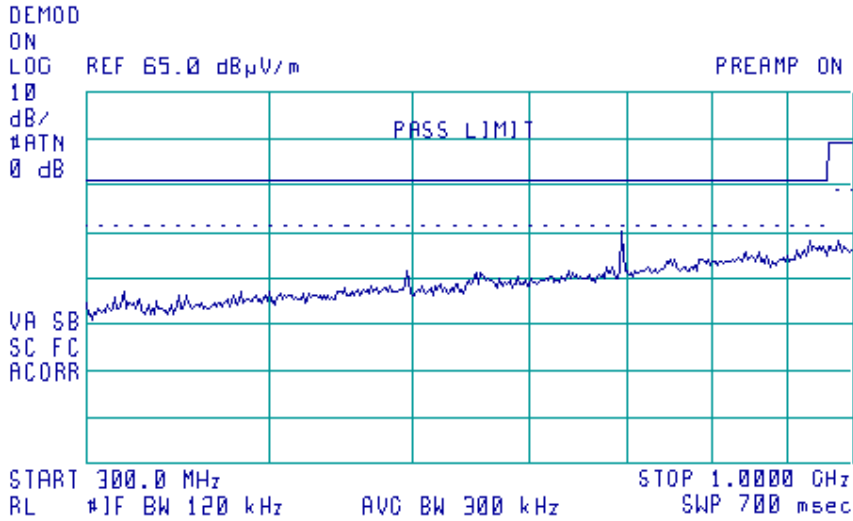
Signal	Freq (MHz)	Peak Amp (dBuV/m)	Peak - Lim1 (dB)	QP Amp (dBuV/m)	QP - Lim1 (dB)
1	83.995350	21.27	-18.73	19.25	-20.75
2	91.303875	23.10	-20.40	21.19	-22.31
3	91.304300	23.01	-20.49	21.06	-22.44

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:35:11 JAN 29, 2004

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 300 MHz. to 1 GHz. Horizontal Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-Peak Horizontal

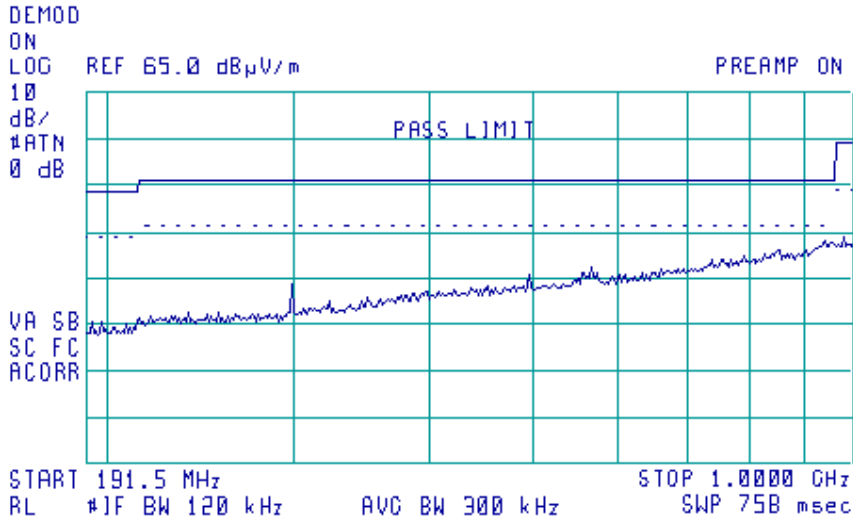
Signal	Freq (MHz)	Peak Amp (dBuV/m)	Peak - Lim1 (dB)	QP Amp (dBuV/m)	QP - Lim1 (dB)
1	696.757622	38.64	-7.36	35.58	-10.42

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:35:11 JAN 29, 2004

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 300 MHz. to 1 GHz. Vertical Polarisation

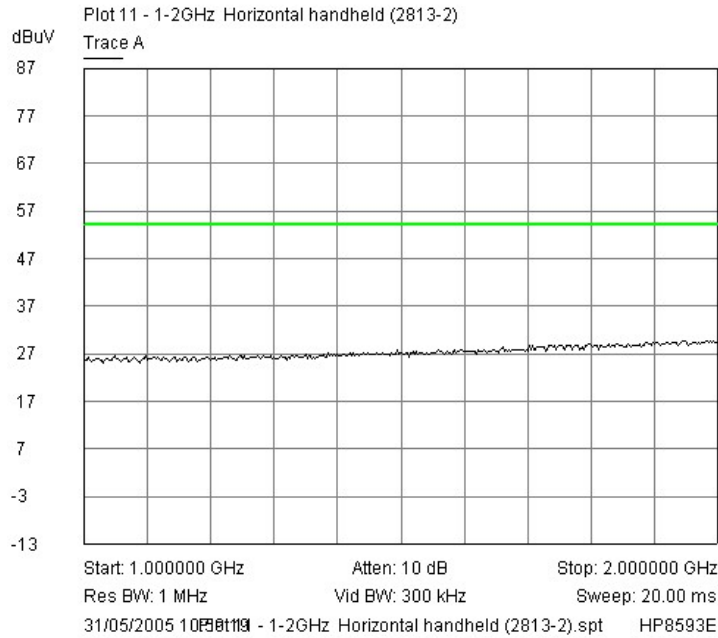
The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-peak Vertical

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 1 GHz. to 2 GHz. Horizontal Polarisation

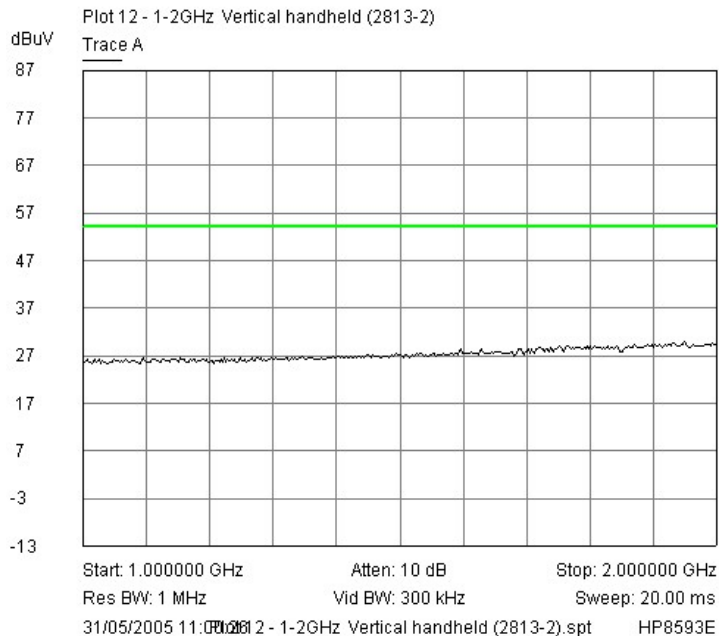
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Horizontal

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 1 GHz. to 2 GHz. Vertical Polarisation

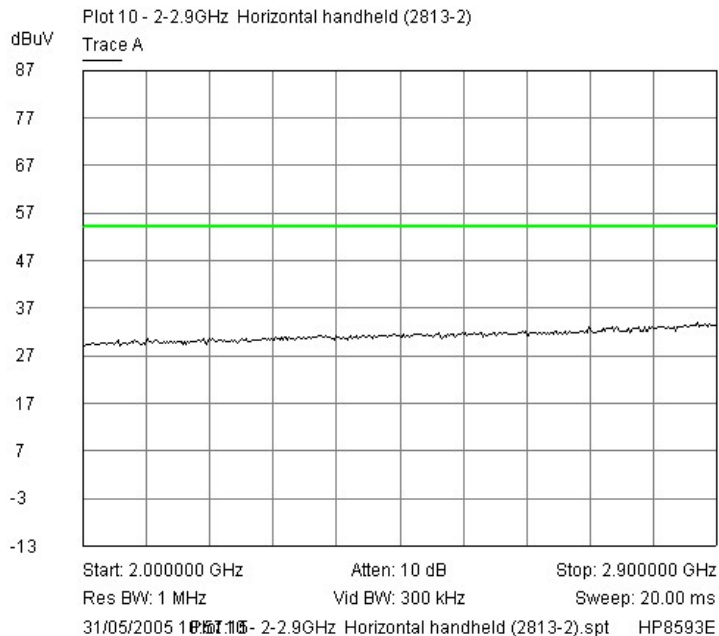
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Vertical

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 2 GHz. to 2.9 GHz. Horizontal Polarisation

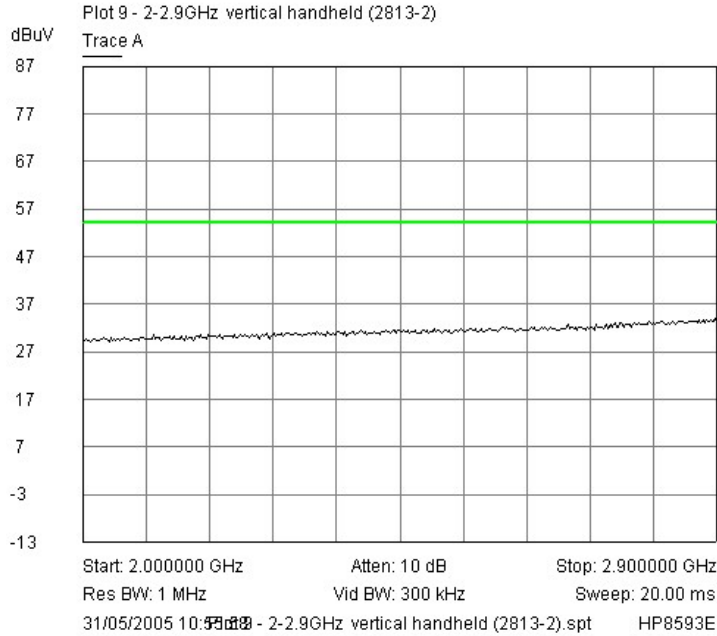
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Horizontal

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 2 GHz. to 2.9 GHz. Vertical Polarisation

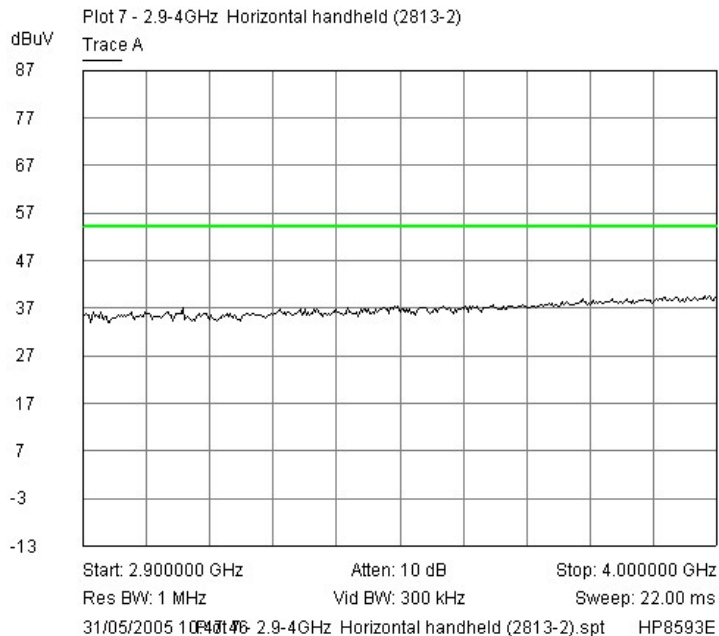
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Vertical

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 2.9 GHz. to 4 GHz. Horizontal Polarisation

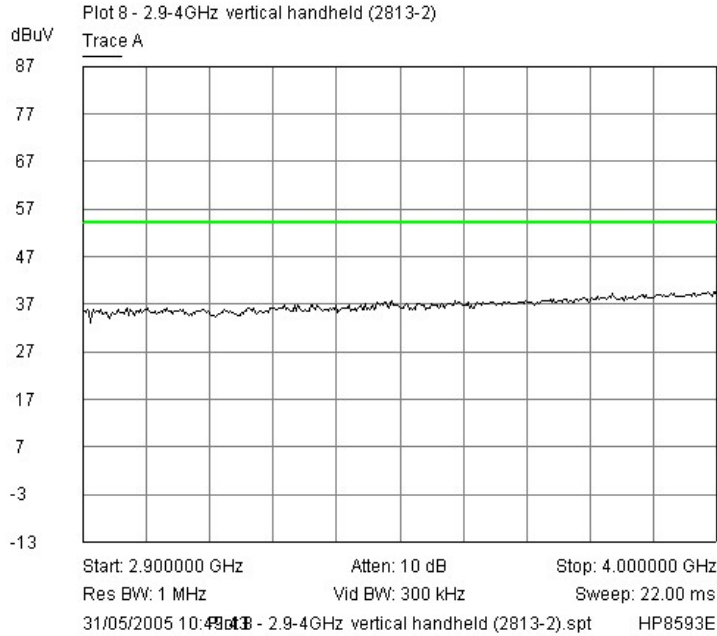
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Horizontal

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 2.9 GHz. to 4 GHz. Vertical Polarisation

The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Vertical

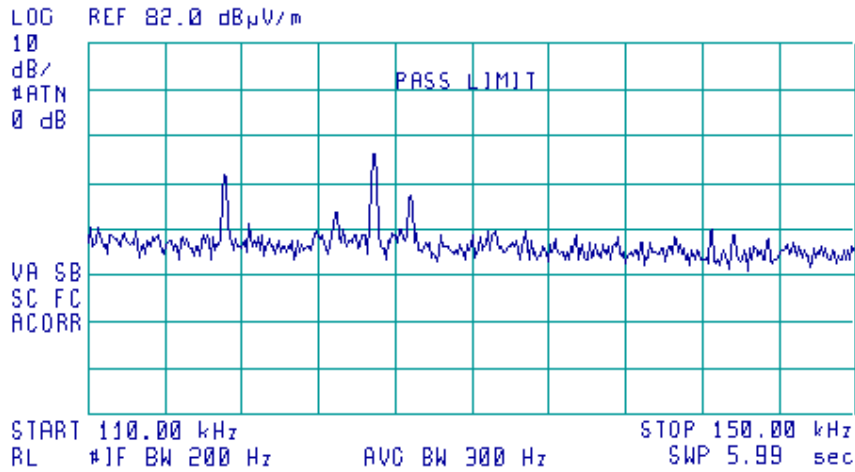
NONE.

Measurement Uncertainty of ± 5.2 dB Applies

7525C Docked.



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003
ACTV DET: PEAK
MEAS DET: PEAK AVG



Average Values of 110 kHz. to 150 kHz. Parallel Polarisation

The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Parallel

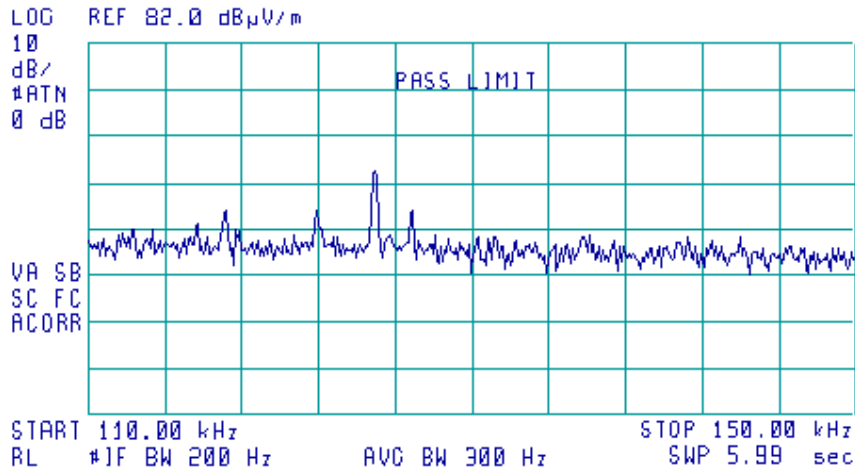
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK AVG



Average Values of 110 kHz. to 150 kHz. Perpendicular Polarisation

The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Perpendicular

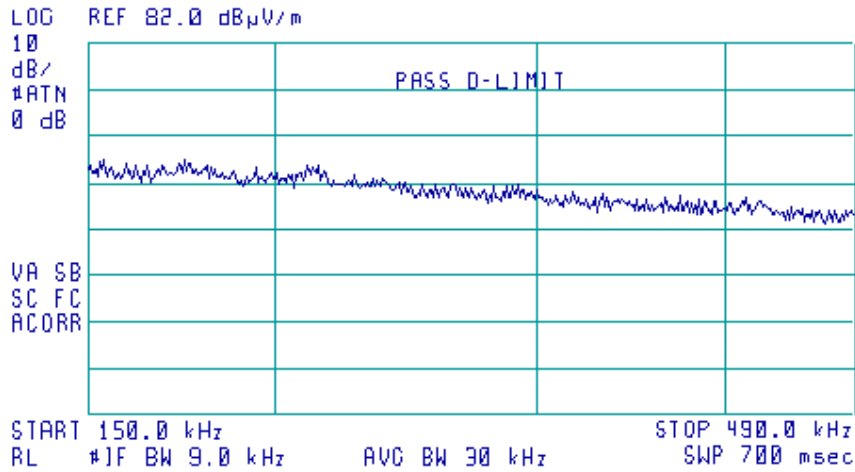
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK AVC



Quasi-Peak Values of 150 kHz. to 490 kHz. Parallel Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-Peak Parallel

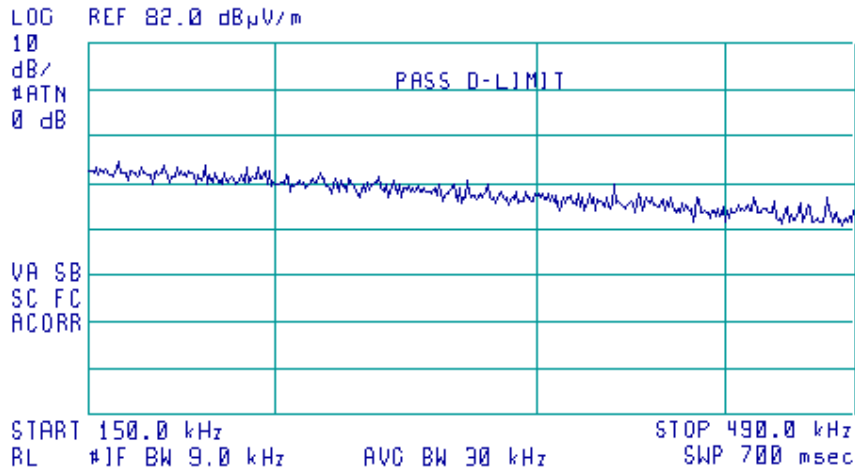
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK AVC



Quasi-Peak Values of 150 kHz. to 490 kHz. Perpendicular Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-peak Perpendicular

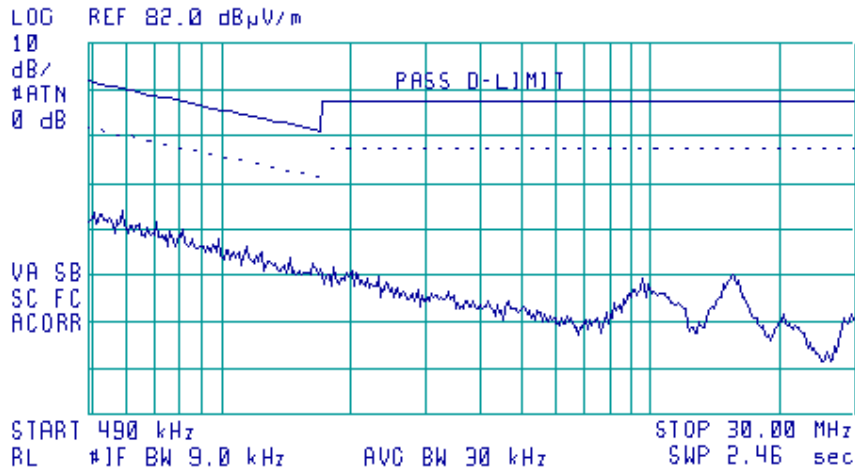
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 490 kHz. to 30 MHz. Parallel Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-Peak H Parallel

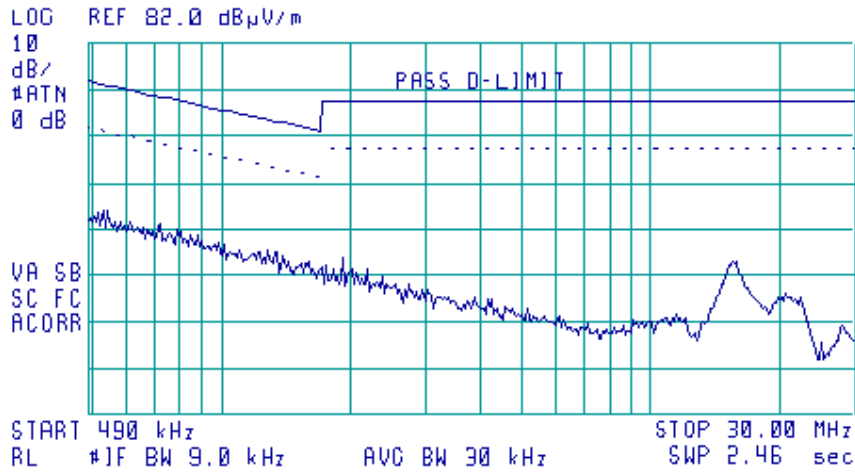
NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:28:17 SEP 11, 2003

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 490 kHz. to 30 MHz. Perpendicular Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

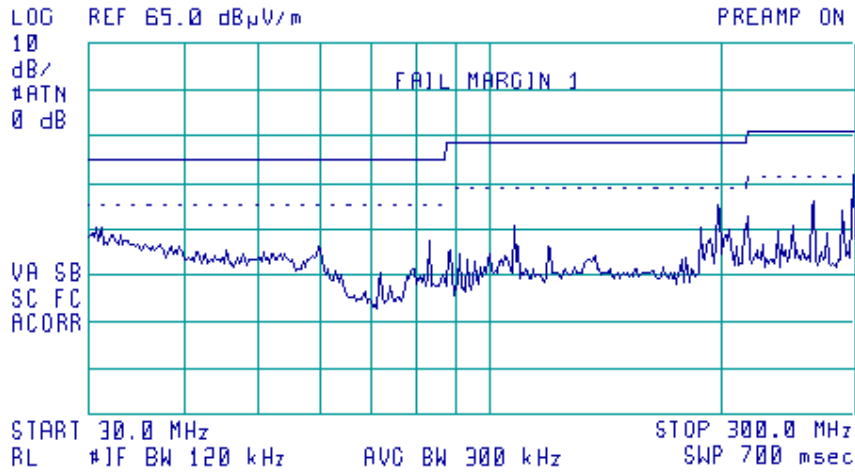
Table of signals within 20dB of the limit line for Quasi-peak Perpendicular

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:35:11 JAN 29, 2004
ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 30 MHz. to 300 MHz. Horizontal Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-Peak Horizontal

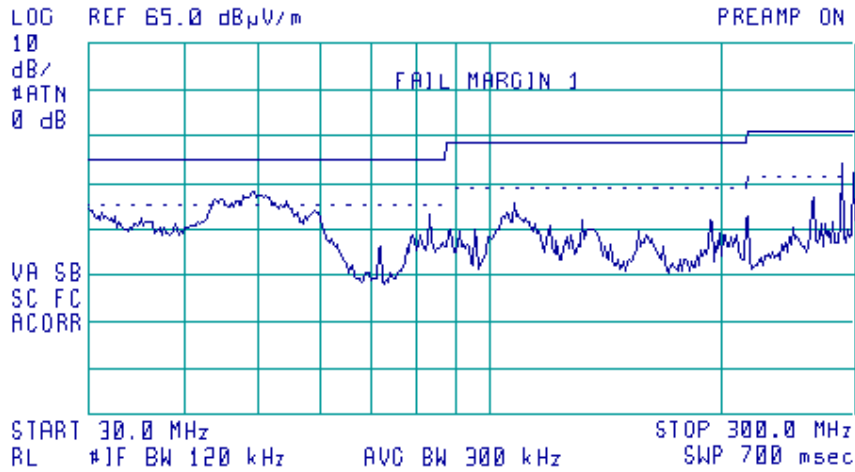
Signal	Freq (MHz)	Peak Amp (dBuV/m)	Peak - Lim1 (dB)	QP Amp (dBuV/m)	QP - Lim1 (dB)
1	108.010300	28.86	-14.64	24.98	-18.52
2	205.004500	31.44	-12.06	28.21	-15.29
3	215.999800	31.52	-11.98	28.92	-14.58
4	264.008900	32.63	-13.37	30.54	-15.46
5	288.012700	33.20	-12.80	29.23	-16.77
6	298.612400	38.58	-7.42	36.45	-9.55

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:35:11 JAN 29, 2004

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 30 MHz. to 300 MHz. Vertical Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-peak Vertical

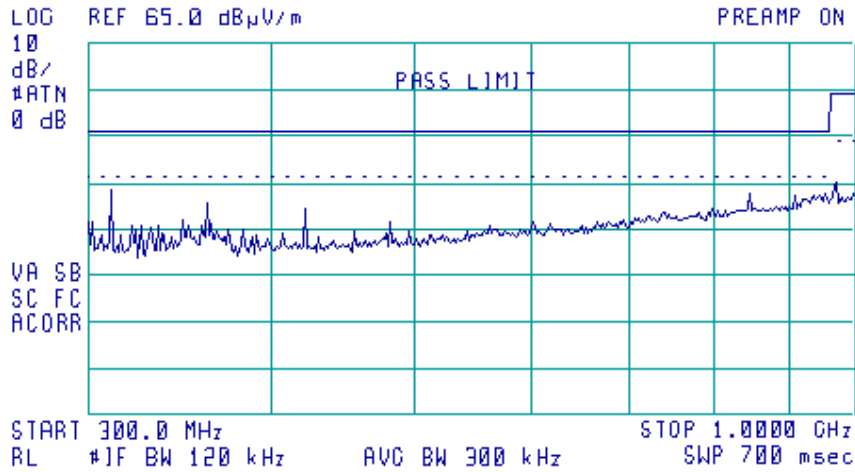
Signal	Freq (MHz)	Peak Amp (dBuV/m)	Peak - Lim1 (dB)	QP Amp (dBuV/m)	QP - Lim1 (dB)
1	49.235625	33.24	-6.76	29.29	-10.71
2	49.985600	33.87	-6.13	29.49	-10.51
3	108.010100	33.75	-9.75	28.98	-14.52
4	264.022500	35.06	-10.94	31.49	-14.51
5	288.009525	41.40	-4.60	39.28	-6.72
6	298.613000	40.56	-5.44	38.02	-7.98

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:35:11 JAN 29, 2004

ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 300 MHz. to 1 GHz. Horizontal Polarisation

The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

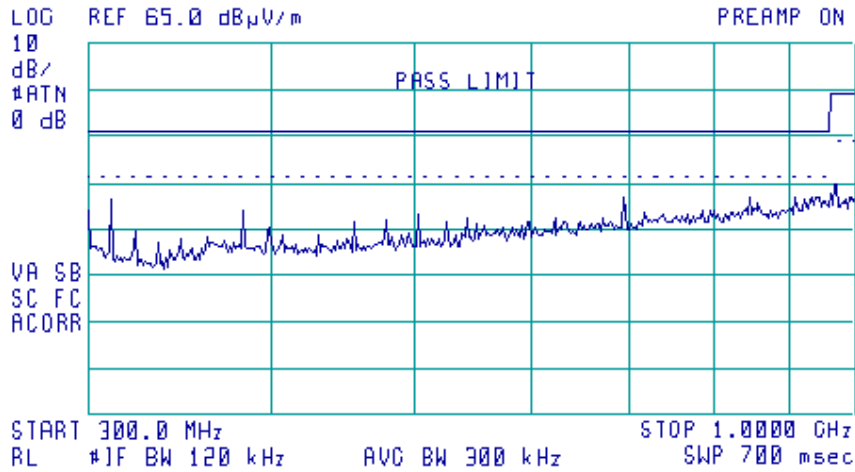
Table of signals within 20dB of the limit line for Quasi-Peak Horizontal

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



11:45:03 JUL 25, 2003 12:35:11 JAN 29, 2004
ACTV DET: PEAK
MEAS DET: PEAK QP



Quasi-Peak Values of 300 MHz. to 1 GHz. Vertical Polarisation

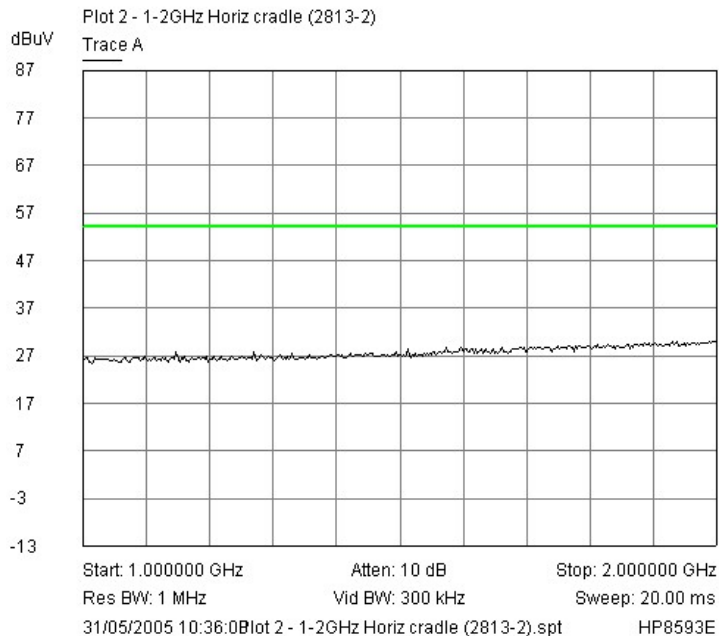
The plot shows a swept response of peak values using the quasi-peak limit line

(Any peaks within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Quasi-peak Vertical

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 1 GHz. to 2 GHz. Horizontal Polarisation

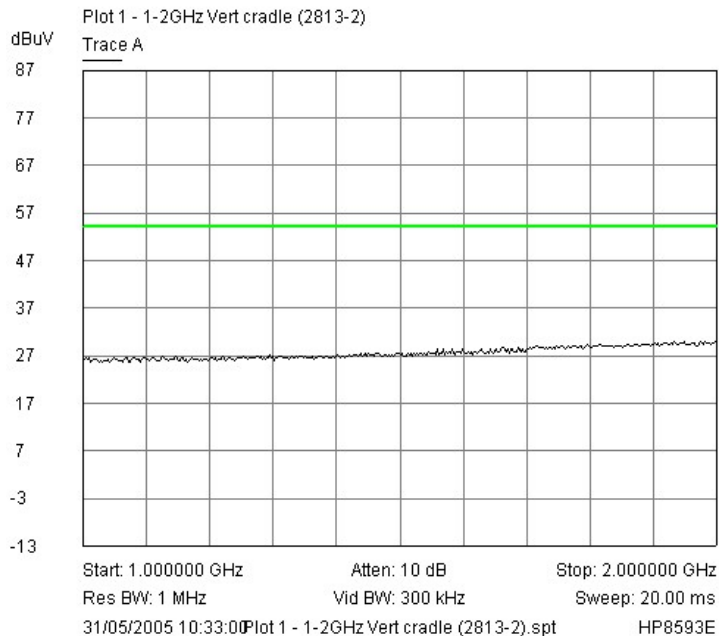
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Horizontal

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 1 GHz. to 2 GHz. Vertical Polarisation

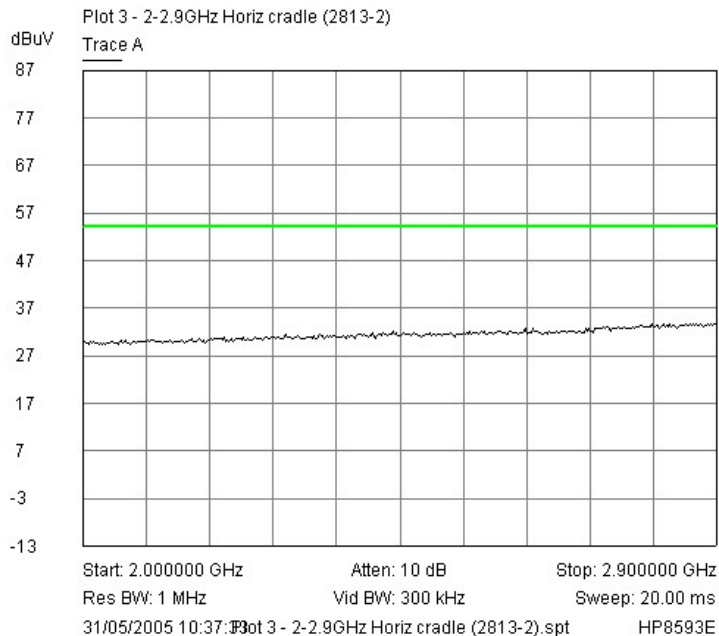
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Vertical

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 2 GHz. to 2.9 GHz. Horizontal Polarisation

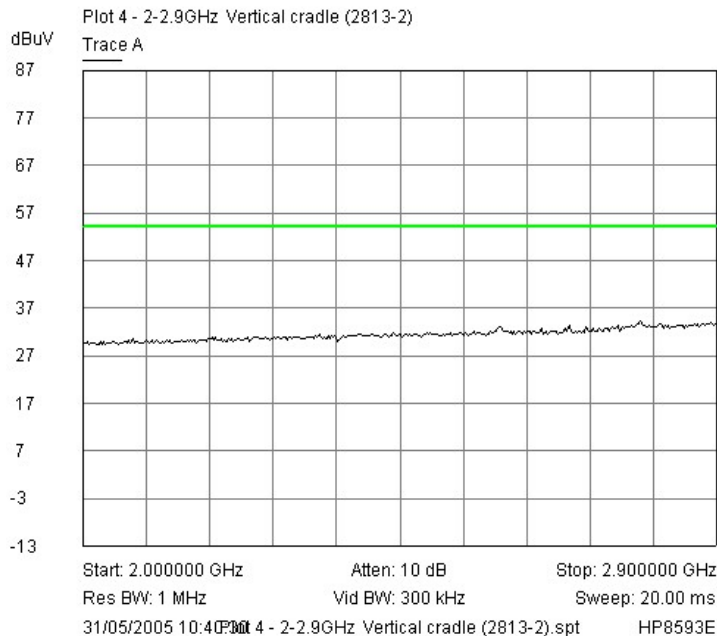
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Horizontal

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 2 GHz. to 2.9 GHz. Vertical Polarisation

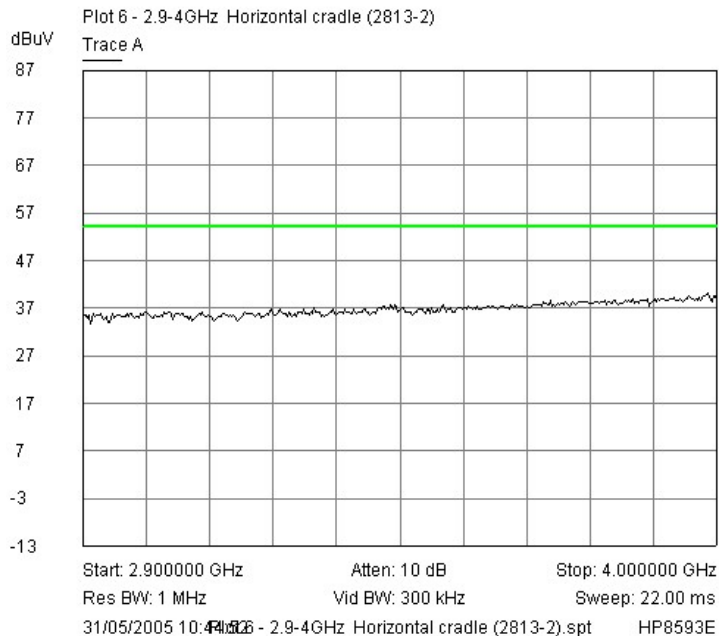
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Vertical

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 2.9 GHz. to 4 GHz. Horizontal Polarisation

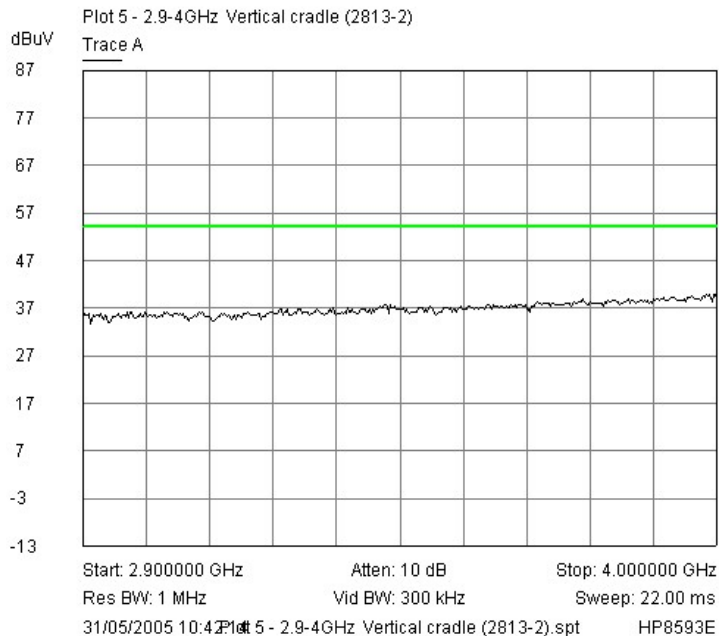
The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Horizontal

NONE.

Measurement Uncertainty of ± 5.2 dB Applies



Average Values of 2.9 GHz. to 4 GHz. Vertical Polarisation

The plot shows a swept response of average values using the FCC limit line

(Any signals within 20dB of the limit line have been calculated and appear in the table on following page of this report)

Table of signals within 20dB of the limit line for Average Vertical

NONE.

Measurement Uncertainty of ± 5.2 dB Applies

7. Explanatory Notes

7.1 Explanation of FAIL MARGIN 1 Statement

The **FAIL MARGIN 1** statement(s) may appear on the graphical plots when the receiver used to measure your equipment detects a signal that exceeds the dashed line. This does not mean that the Workabout Pro 7525C with 125kHz ACG RFID, Charging cradle & AC/DC Adapter 7525C, LF-AH1-A1, WA4002, LSE9912B0515, has failed the test only that the 10 dB calculation margin set, has been exceeded on a peak measurement.

Following the indication that the margin has been exceeded, measurements are made at the frequency (ies) of the peaks. These peaks have been calculated to either Quasi Peak or Average Peak dependant on the test. A table of results has been printed on the reverse of the page. This table looks similar to the one illustrated below: -

Signal Number	Frequency (MHz)	Peak (dBµV)	PK Delta L 1 (dB)	Avg (dBµV)	Av Delta L 1 (dB)
1	12345.0000	12.9	-2.5	10.2	-5.2

The First column, labelled Signal Number, is a number that the receiver has given to each signal, which has been calculated.

Column Two, labelled Frequency (MHz), is the frequency of the signal received.

Column Three, labelled Peak (dBµV), (can also be labelled, in the case of Quasi Peak, Peak dBµV/m) is the Level that was received at peak amount in dB above 1µV.

Column Four, labelled PK Delta L1 (dB), is the same level as Column three but is given in a level relative to the limit line required.

Column Five, labelled AVG (dBµV), (can also be labelled, in the case of Quasi Peak, QP dBµV/m) when undertaking a Quasi peak test, This is the Average or Quasi peak calculation results given in dBµV or dBµV/m above 1µV.

Column Six, labelled AV Delta L 1 (dB), (can also be labelled, in the case of Quasi Peak, QP Delta L 1 (dB)) is the Average or Quasi Peak calculation relevant to the limit line. The results entered in this column indicate the signal level relative to the compliance limit required. Negative numbers indicate that the product is compliant.

7.2 Explanation of limit line calculations for radiated measurements

The limits given in the test standard are normally expressed as absolute values (e.g. in µV/m at a specified distance), whereas the measured values are expressed as peak, quasi peak or average values in dBµV/m referenced to the measuring instrument inputs. RN Electronics calibrate the test set-up to account for any path losses, antenna gains, etc. so that the value read at the receiver relates directly to the absolute value required, except that it is expressed in dB relative to one microVolt and may need to take account of any alternative measuring distance used. Examples:

- (a) limit of 500 µV/m equates to $20 \cdot \log(500) = 54 \text{ dB } \mu\text{V/m}$.
- (b) limit of 300 µV/m at 10m equates to $20 \cdot \log(300 \cdot 10/3) = 60 \text{ dB } \mu\text{V/m}$ at 3m

Below 30MHz, an extrapolation factor of 40dB / decade is used. E.g. limit of 15484 µV/m is converted to 84 dBµV/m [$20 \cdot \log(15484)$] and because it is measured at 3m instead of 30m the limit is raised 40dB to 124 dBµV/m.

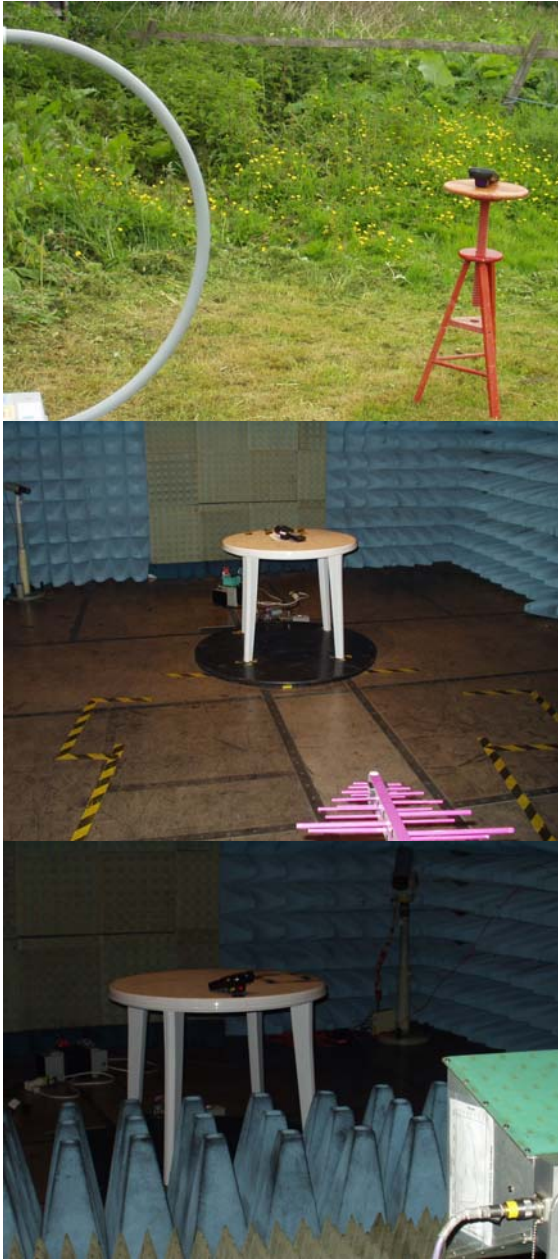
8. Photographs

Docked.



**Photograph of the Workabout Pro 7525C with
125kHz ACG RFID, Charging cradle & AC/DC
Adapter 7525C, LF-AH1-A1, WA4002,
LSE9912B0515 as viewed from in front of the
antenna.**

Handheld.



**Photograph of the Workabout Pro 7525C with
125kHz ACG RFID, 7525C, LF-AH1-A1, as viewed
from in front of the antenna.**

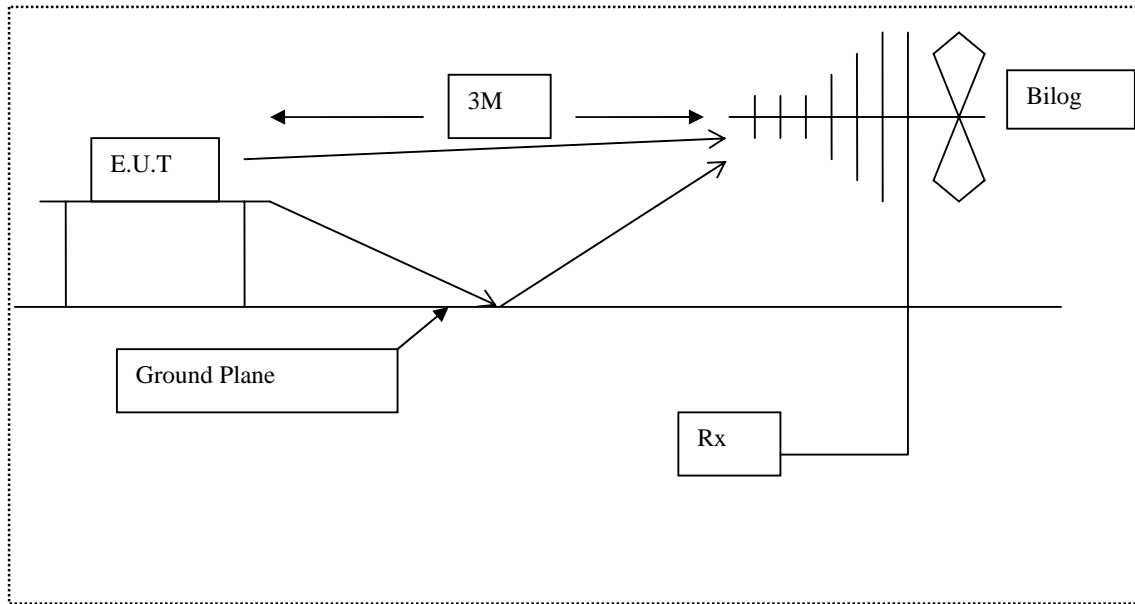


Diagram of the radiated emissions test setup.



Photograph of the Workabout Pro 7525C with
125kHz ACG RFID, Charging cradle & AC/DC
Adapter 7525C, LF-AH1-A1, WA4002,
LSE9912B0515 as viewed from screened room
(conducted emissions)

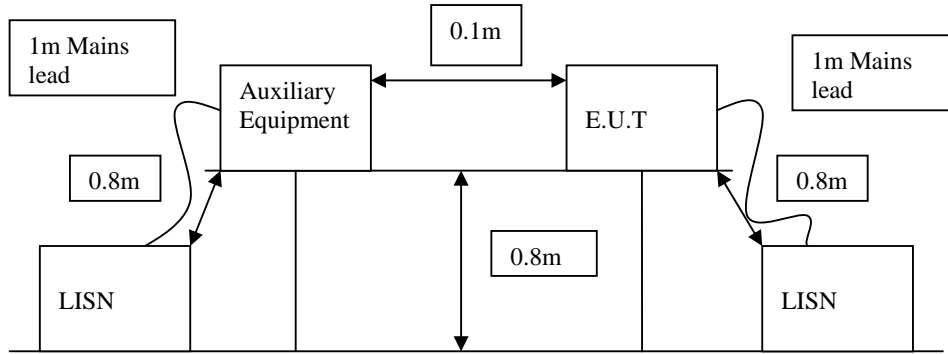


Diagram of the conducted emissions test setup.

9. Signal Leads

Port Name	Cable Type	Tested	Reason
AC/DC Adapter	2 core	Yes	Supply
USB	Multicore screened	Yes	Typical Configuration
Mouse	Multicore Unscreened	Yes	Typical Configuration

10. Test Equipment Calibration list

The Following is a list of the test equipment currently in use at **R.N. Electronics Ltd.** EMC test facility. In line with our procedures, to meet the requirements of ISO 9001, the equipment used will be within calibration for the period during which testing was carried out.

RNNNo	Model	Description	Manufacturer
E1	HP8542E	EMI Receiver & RF Filter	Hewlett Packard
E10	MN2050	LISN 13A	Chase
E136	3105	Horn Antenna	EMCO
E226	8546A	EMI Receiver	Hewlett Packard
E3	HP8593E	Spectrum Analyser	Hewlett Packard
E35	HP11947A	Transient Limiter + 10dB Atten.	Hewlett Packard
TMS81	6502	Active Loop Antenna	EMCO
TMS82	8449B	Pre Amplifier 1 - 26 GHz	Agilent
TMS933	CBL6141A	Bilog Antenna 30MHz - 2GHz	York EMC
TMS952	MN2050D	LISN	Schaffner

11. Auxiliary equipment

11.1 Auxiliary equipment supplied by Psion Teklogix UK Ltd

Auxiliary equipment used for the purpose of test supplied by the above has been listed below

Manufacturer	Description	Model Number	Serial Number
Microsoft	Mouse	X08-71118	56180-576-2143155-1
Dell	PSU for laptop	ADP7DBM	TH-0936411-17971-7C
Belkin	USB Bluetooth adaptor	F8T001 ver2	BD000A3A54433F
Dell	Laptop	PPX	20300-OEM-001535-32116
-	USB Hub	-	-

11.2 Auxiliary equipment supplied by RN Electronics Limited

Auxiliary equipment used for the purpose of test supplied by the above has been listed below

RN Number	Manufacturer	Description	Model Number	Serial Number
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NONE.

12. Modifications

In order for the Workabout Pro 7525C with 125kHz ACG RFID, Charging cradle & AC/DC Adapter 7525C, LF-AH1-A1, WA4002, LSE9912B0515 to produce the results shown within this report the following modifications, if any, were implemented.

NONE.

13. Compliance information

Products subject to the Declaration of Conformity procedure are required to be supplied with a compliance information statement. A copy of this statement may be included here:

FCC DECLARATION OF CONFORMITY (DoC)

Applicant's Name & Address:

PSION TEKLOGIX Inc
2100 Meadowvale Blvd.
Mississauga, Ontario
Canada L5N 7J9
Contact Person: Jain Roy
Telephone No.: (905) 813-9900

US Representative's Name & Address:

PSION TEKLOGIX Inc
1810 Airport Exchange Blvd., Suite 500
Erlanger, KY, 41018, USA
Contact Person: Kyle Day
Telephone No.: (859) 372-4329

Equipment Type/Environment:

Computing Devices

Trade Name / Model No.:

7525C + ACG 125 kHz RFID;
7525M + ACG 125 kHz RFID;
7525S + ACG 125 kHz RFID;
7525C + ACG 125 kHz RFID;
7525M + ACG 125 kHz RFID;
7525S + ACG 125 kHz RFID;

Year of Manufacture:

2005

Standard(s) to which Conformity is Declared:

The WORKABOUT PRO supplied by Askey Computer Corp., has been tested and found to comply with FCC PART 15, SUBPART B - UNINTENTIONAL RADIATORS, CLASS B COMPUTING DEVICES FOR HOME & OFFICE USE.

I, the undersigned, hereby declare that the equipment as tested is representative within manufacturing tolerance to units.

Applicant



Signature
Mike Doyle
Full Name
Vice President of Engineering
Position
Mississauga, Ontario, Canada
Place
June 1st, 2005
Date

Legal Representative in U.S.



Signature
Kyle Day
Full Name
V.P. Channel Sales
Position
Erlanger, KY 41018, USA
Place
June 1st, 2005
Date



Certificate of Test

The equipment noted below has been tested by **R.N. Electronics Limited** and conforms with the relevant subpart of FCC part 15, tested.

This certificate relates to the equipment, as identified by unique serial number(s) and further detailed in the referenced report, in the condition(s) at the time it was tested. It does not relate to any other similar equipment and performance of the product before or after the test cannot be guaranteed. Furthermore, this is a certificate of test only and should not be confused with an equipment authorisation.

Equipment:	Workabout Pro 7525C with 125kHz ACG RFID, Charging cradle & AC/DC Adapter 7525C, LF-AH1-A1, WA4002, LSE9912B0515
Manufacturer:	Psion Teklogix UK Ltd
Customer Purchase Order Number:	108895
R.N. Electronics Limited Report Number:	06-607/2813/2/05
Test Standards:	CFR 47 FCC Part 15C (effective date March 11, 2005); Class DCD Transmitter
Date:	24th - 31st May 2005

For and on behalf of
R.N. Electronics Limited

Signature:

QMF21 – 8: FCC PART 15 ISSUE 4 : - JAN 05