

**Baldock Radio Station**  
**Royston Road**  
**Baldock**  
**Herts SG7 6SH**  
**01462 428500**



**Mobile Phone**  
**Base-Station Audit**

**Audit Site:** Moseley Court  
Wake Green  
Birmingham  
B13 9PU

Work Performed by		Distribution List	
James Loughlin Field Manager	3G measurements & Report	Lloyd Tailby	1
Mike Reynolds Field Officer	3G measurements	Ajmal Hussain	2
John Taylor T.I. Officer	2G measurements & 2G Report	John Taylor	1
		Technical Manager	1
		Case/Year file	2

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## Report Summary

As the radio spectrum is continually changing, these measurements can only provide information on the radio frequency (RF) conditions for the specific locations at the time of the survey.

The Office of Communications (Ofcom) performed this survey of the RF emission environment in the vicinity of Moseley Court, Wake Green, Birmingham on the 6th October 2005. Both second generation (2G) and third generation (3G) base station emissions were measured separately and the signal levels combined to give the Total Band Exposure as detailed below.

The table, sorted in descending order of signal level, summarises the total results obtained at each measurement location.

Summary of results:

Location	3G Exposure Quotient	2G Exposure Quotient	TOTAL 3G + 2G Exp. Quot.	Related to ICNIRP limit
Parking Area at end of Avon Drive	5.21E-05	2.04E-04	2.56E-04	1/3905
Wake Green Rd near junction with St Agnes Rd	5.60E-05	1.25E-04	1.81E-04	1/5525
Moseley Court Car Park	1.18E-05	8.70E-05	9.88E-05	1/10121
Junction of Yardley Wood Rd with Wake Green Rd	3.55E-05	5.76E-05	9.31E-05	1/10741
Footpath at entrance to Redford Close	6.22E-06	8.72E-06	1.49E-05	1/66934

The Peterborough office carried out the 2G audit, while mobile team 2 from Baldock completed a concurrent 3G survey. The results from both have been combined to provide the summary of results on page 3.

Initially the base station was scanned to ascertain the extent of 3G activity.

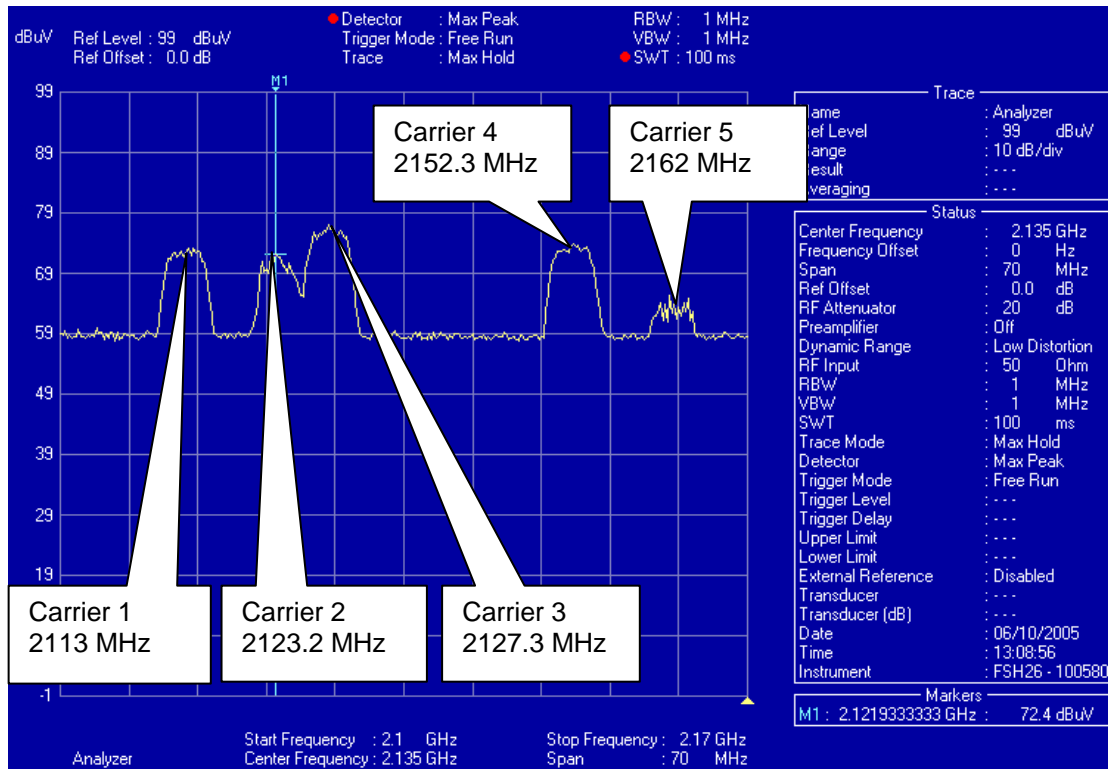


Figure 1

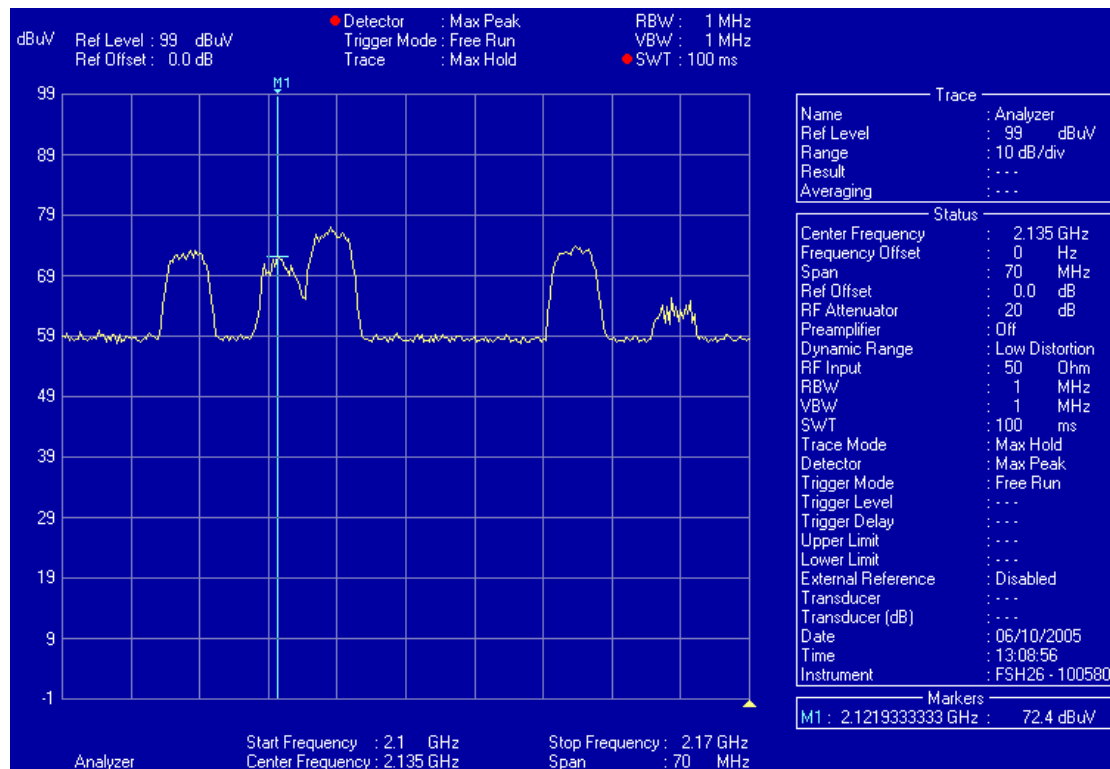
Figure 1 shows that five transmissions were active in this area. At each measurement location the measuring antenna was then set up on a tripod 1.5m above ground level. In this position each of the carriers field strengths were recorded.

For each measurement location the 3G exposure quotient was then calculated for the individual carriers and then the total exposure quotient for all five carriers was calculated. This in turn was added to the 2G exposure quotient before calculating the Total Exposure Quotient for each survey site.

All the 3G measurement data is given on pages 5 to 9, while the 2G data is contained in the annex to this report.

Equipment:	serial number:	CEMS number
FSH6 Spectrum Analyser	100580	200103
EMCO DRG 3115 horn Antenna	2153	200005
Garmin GPS75 receiver	37524369	200011
Reynolds cable type 219-0088 0201 067		-

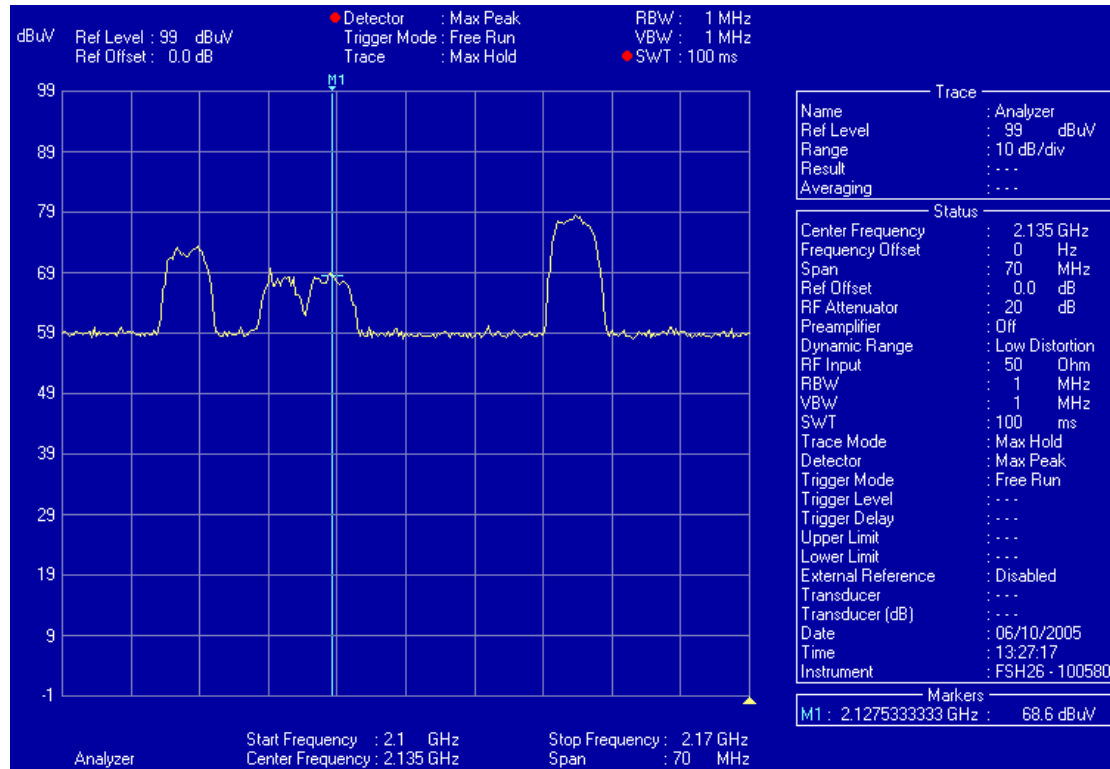
Location 1: Wake Green Rd near junction with St Agnes Rd



Location 1: Wake Green Rd near junction with St Agnes Rd

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m <sup>2</sup>	Power W/m <sup>2</sup>	ICNIRP W/m <sup>2</sup>	3G Exposure Quotient	3G Exposure Quotient
1	2113	105.7	192,752.5	0.192753	0.0000985510	9.855E-05	10	0.00009855100	9.86E-06
2	2123.2	104.9	175,792.4	0.175792	0.0000819704	8.197E-05	10	0.00008197040	8.20E-06
3	2127.3	109.7	305,492.1	0.305492	0.0002475474	0.0002475	10	0.000024754740	2.48E-05
4	2152.3	106.4	208,929.6	0.208930	0.0001157871	0.0001158	10	0.000011578710	1.16E-05
5	2162	97.9	78,523.6	0.078524	0.0000163555	1.636E-05	10	0.000001635550	1.64E-06
									<b>TOTAL</b> 5.60E-05

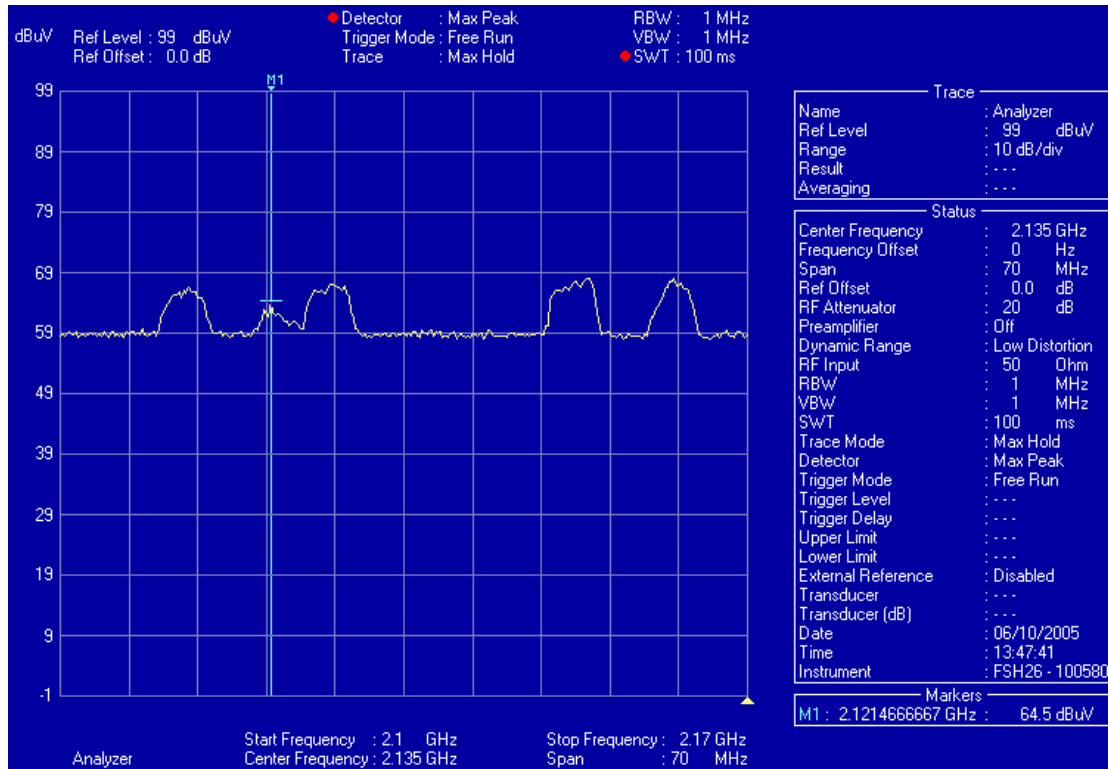
Location 2: Parking Area at end of Avon Drive



Location 2: Parking Area at end of Avon Drive

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m <sup>2</sup>	Power W/m <sup>2</sup>	ICNIRP W/m <sup>2</sup>	3G Exposure Quotient	3G Exposure Quotient
1	2113	106.1	201,836.6	0.201837	0.0001080588	0.0001081	10	0.000010805880	1.08E-05
2	2123.2	102.3	130,316.7	0.130317	0.0000450465	4.505E-05	10	0.000004504650	4.50E-06
3	2127.3	101.1	113,501.1	0.113501	0.0000341710	3.417E-05	10	0.000003417100	3.42E-06
4	2152.3	111	354,813.4	0.354813	0.0003339317	0.0003339	10	0.000033393170	3.34E-05
5	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
<b>TOTAL</b>									<b>5.21E-05</b>

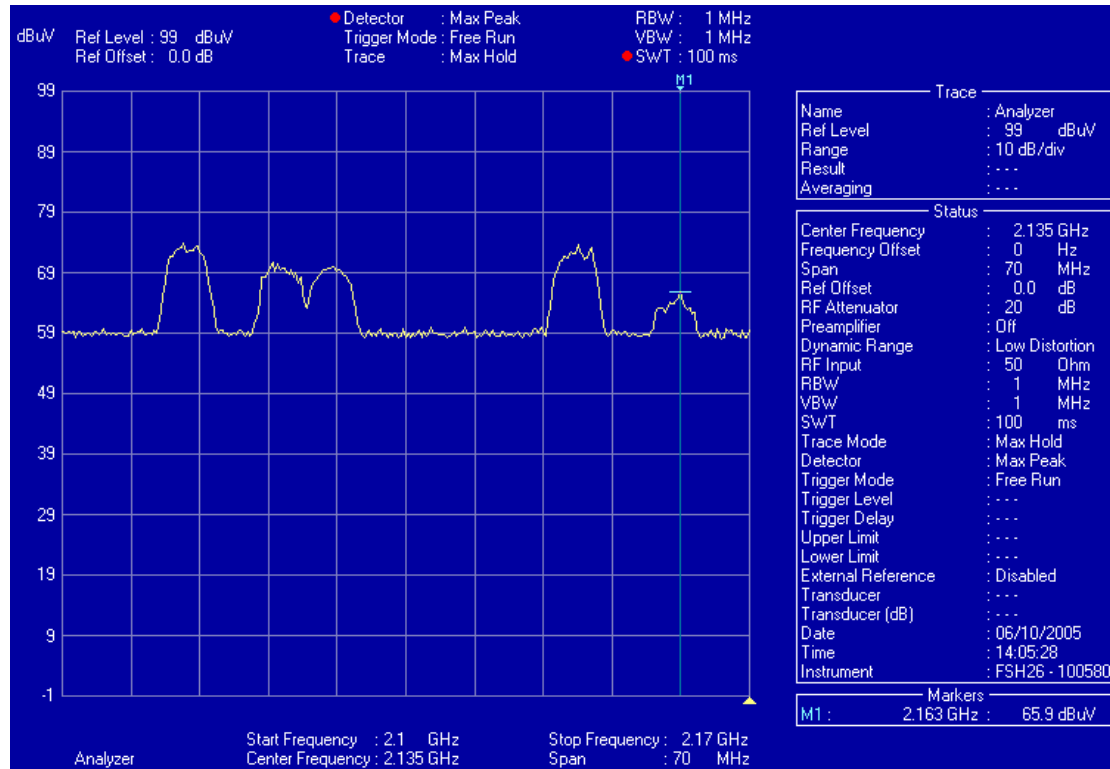
Location 3: Moseley Court Car Park



Location 3: Moseley Court Car Park

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m <sup>2</sup>	Power W/m <sup>2</sup>	ICNIRP W/m <sup>2</sup>	3G Exposure Quotient	3G Exposure Quotient
1	2113	99.2	91,201.1	0.091201	0.0000220627	2.206E-05	10	0.000002206270	2.21E-06
2	2123.2	97	70,794.6	0.070795	0.0000132942	1.329E-05	10	0.000001329420	1.33E-06
3	2127.3	99.7	96,605.1	0.096605	0.0000247547	2.475E-05	10	0.000002475470	2.48E-06
4	2152.3	100.6	107,151.9	0.107152	0.0000304550	3.046E-05	10	0.000003045500	3.05E-06
5	2162	100.1	101,157.9	0.101158	0.0000271431	2.714E-05	10	0.000002714310	2.71E-06
									<b>TOTAL</b> 1.18E-05

Location 4: Junction of Yardley Wood Rd with Wake Green Rd

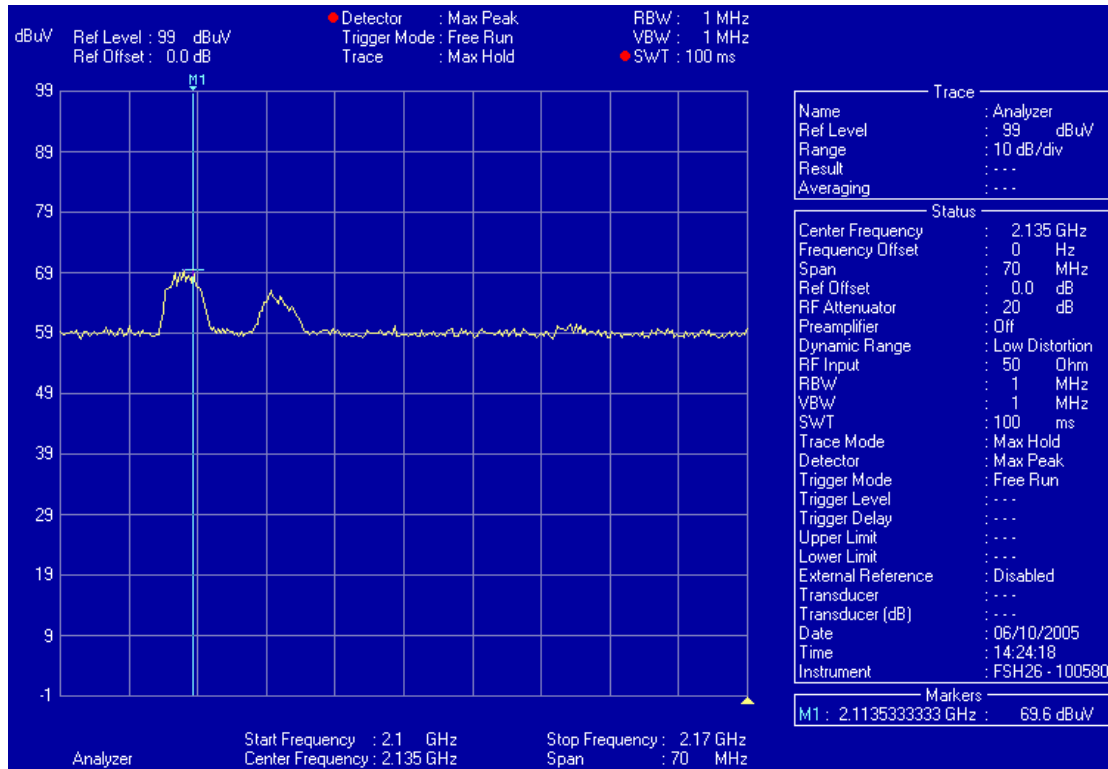


Location 4: Junction of Yardley Wood Rd with Wake Green Rd

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m <sup>2</sup>	Power W/m <sup>2</sup>	ICNIRP W/m <sup>2</sup>	3G Exposure Quotient	3G Exposure Quotient
1	2113	106.5	211,348.9	0.211349	0.0001184838	0.0001185	10	0.000011848380	1.18E-05
2	2123.2	103.4	147,910.8	0.147911	0.0000580309	5.803E-05	10	0.000005803090	5.80E-06
3	2127.3	102.7	136,458.3	0.136458	0.0000493920	4.939E-05	10	0.000004939200	4.94E-06
4	2152.3	106.2	204,173.8	0.204174	0.0001105757	0.0001106	10	0.000011057570	1.11E-05
5	2162	98.4	83,176.4	0.083176	0.0000183508	1.835E-05	10	0.000001835080	1.84E-06
									<b>TOTAL</b> <b>3.55E-05</b>



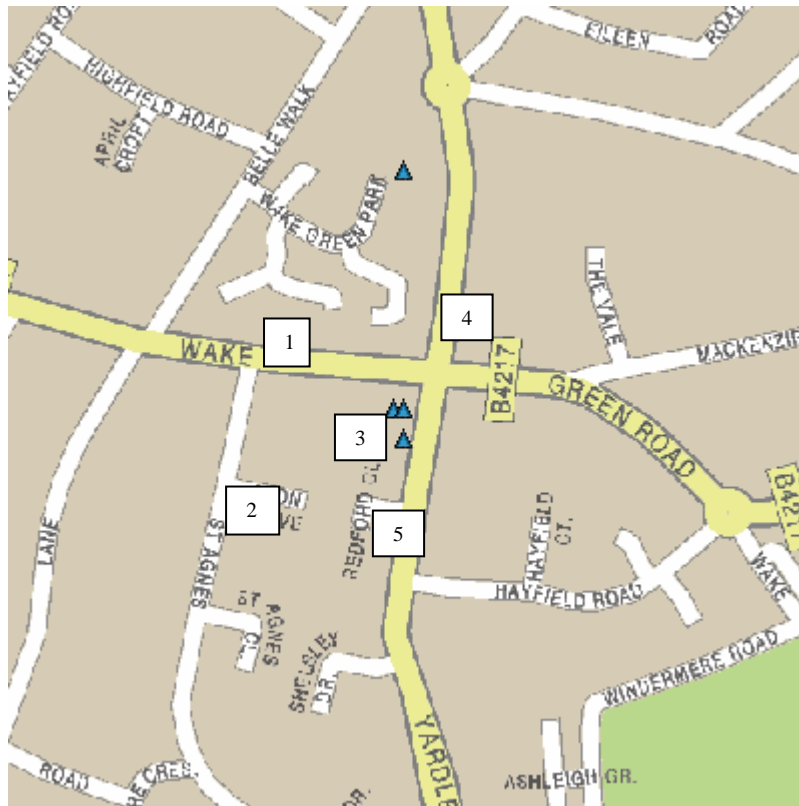
Location 5: Footpath at entrance to Redford Close



Location 5: Footpath at entrance to Redford Close

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m <sup>2</sup>	Power W/m <sup>2</sup>	ICNIRP W/m <sup>2</sup>	3G Exposure Quotient	3G Exposure Quotient
1	2113	102.1	127,350.3	0.127350	0.0000430186	4.302E-05	10	0.000004301860	4.30E-06
2	2123.2	98.6	85,113.8	0.085114	0.0000192159	1.922E-05	10	0.000001921590	1.92E-06
3	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
4	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
5	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
									<b>TOTAL</b> 6.22E-06

Measurement Locations



## **Annex**

### **2G Mobile Phone Base-Station Audit**

## **Mobile Phone Base-Station Audit**

**Audit site: Area around Moseley Court  
Wake Green  
Birmingham  
B13 9PU**

In 2000 the Government asked the Radiocommunications Agency to implement a national measurement programme to ensure that emissions from cellular base stations do not exceed the guidelines for public maximum exposure set by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). Ofcom took over the functions of the Radiocommunications Agency, along with those of the Independent Television Commission, Radio Authority, Oftel and Broadcasting Standards Commission, on 29 December 2003.

Electric field strength measurements made in various bands are referenced to and presented alongside the relevant ICNIRP public maximum exposure levels. On the left hand side of the results page(s) is a graphical representation of the radio spectrum surveyed at each location on the site. The green line on each graph indicates the ICNIRP guideline exposure level for that frequency band. To the right hand side of each graph is a table showing the ten highest level emissions recorded within a band.

Further explanation of the results and their context within the ICNIRP guidelines can be provided by the Ofcom officers at the time of the audit or by contacting Ofcom on 0845 456 3000, or by email at [contact@Ofcom.org.uk](mailto:contact@Ofcom.org.uk). Results taken from all audit sites and further information on the audit programme can be found on the Ofcom website at [www.ofcom.org.uk](http://www.ofcom.org.uk).

## Report Summary

As the radio spectrum is continually changing, these measurements can only provide information on the radio frequency (RF) conditions for the specific locations at the time of the survey.

Ofcom performed this survey of the RF emission environment prevailing in the vicinity of Area around Moseley Court on 6 October 2005.

The following table, sorted in descending order of signal level, summarises the results obtained at each measurement location.

Summary of results:		
Location	Total Band Exposure	Relationship to ICNIRP Limit
Parking area at end of Avon Drive	2.04E-04	1/4912
Wake Green Road near junction with St Agnes Road	1.25E-04	1/8026
Moseley Court car park	8.70E-05	1/11497
Junction of Yardley Wood Road with Wake Green Road	5.76E-05	1/17362
Footpath at entrance to Redford Close	8.72E-06	1/114617

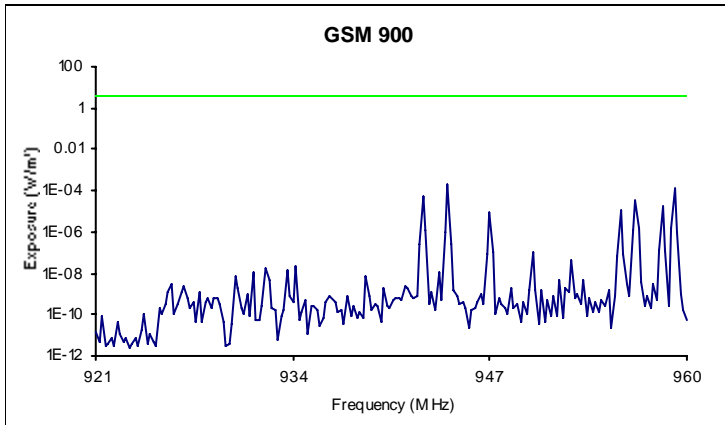
Issued on behalf of Ofcom.

Issued by:

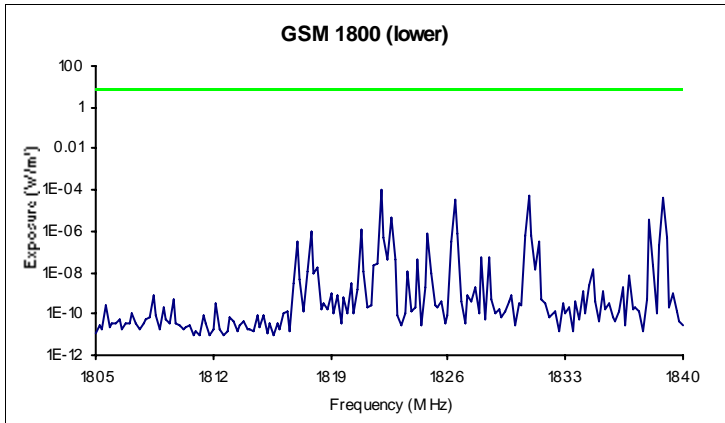
Received by:

John Taylor  
Technical Investigation Officer

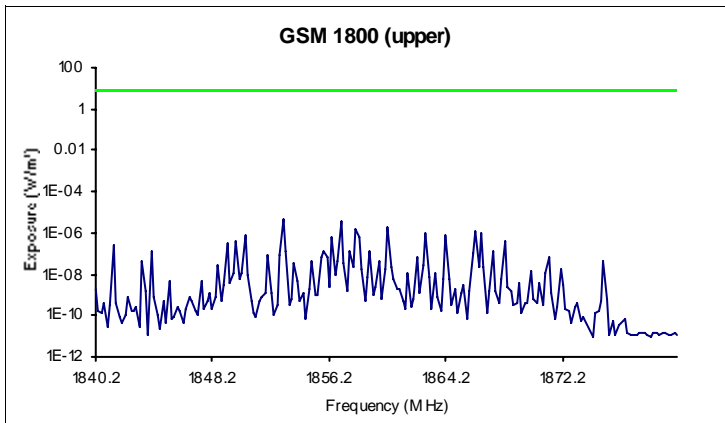
<b>Site:</b> Area around Moseley Court	<b>Receiver:</b>
<b>Location:</b> Wake Green Road near junction with St Agnes Road	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> SP 0867 8280 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 06 October 2005 12:59:11	Serial Number: 837.752/003
<b>Officer:</b> John Taylor	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
944.200	1.81E-04	4.72	3.84E-05
959.200	1.42E-04	4.80	2.97E-05
942.600	5.33E-05	4.71	1.13E-05
956.600	3.24E-05	4.78	6.77E-06
958.400	1.59E-05	4.79	3.33E-06
955.600	1.10E-05	4.78	2.29E-06
947.000	8.53E-06	4.74	1.80E-06
956.800	1.55E-06	4.78	3.24E-07
959.000	1.39E-06	4.79	2.90E-07
942.800	1.19E-06	4.71	2.53E-07
<b>Band Exposure Quotient:</b>			<b>9.54E-05</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,822.000	9.34E-05	9.11	1.03E-05
1,830.800	5.72E-05	9.15	6.24E-06
1,838.800	4.50E-05	9.19	4.89E-06
1,826.400	3.42E-05	9.13	3.74E-06
1,822.600	5.02E-06	9.11	5.51E-07
1,838.000	3.91E-06	9.19	4.26E-07
1,820.800	1.29E-06	9.10	1.41E-07
1,817.800	9.71E-07	9.09	1.07E-07
1,824.800	7.63E-07	9.12	8.36E-08
1,826.600	6.98E-07	9.13	7.64E-08
<b>Band Exposure Quotient:</b>			<b>2.69E-05</b>

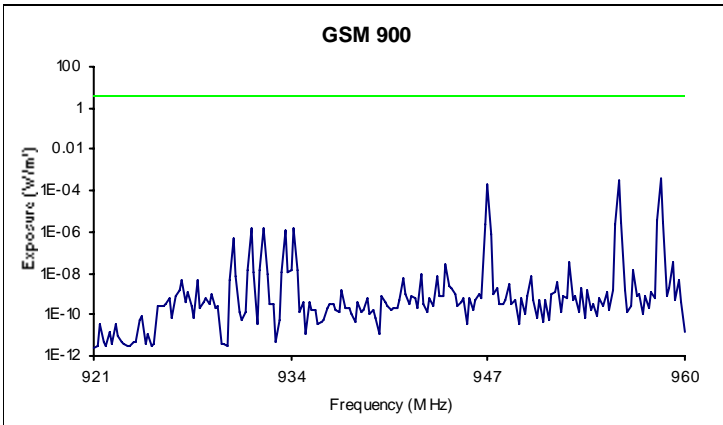


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,853.000	4.94E-06	9.27	5.33E-07
1,857.000	3.36E-06	9.29	3.62E-07
1,860.200	1.77E-06	9.30	1.91E-07
1,858.000	1.54E-06	9.29	1.66E-07
1,866.200	1.24E-06	9.33	1.33E-07
1,866.600	9.86E-07	9.33	1.06E-07
1,862.800	8.73E-07	9.31	9.37E-08
1,864.200	8.55E-07	9.32	9.18E-08
1,850.400	7.27E-07	9.25	7.86E-08
1,856.400	6.70E-07	9.28	7.22E-08
<b>Band Exposure Quotient:</b>			<b>2.27E-06</b>

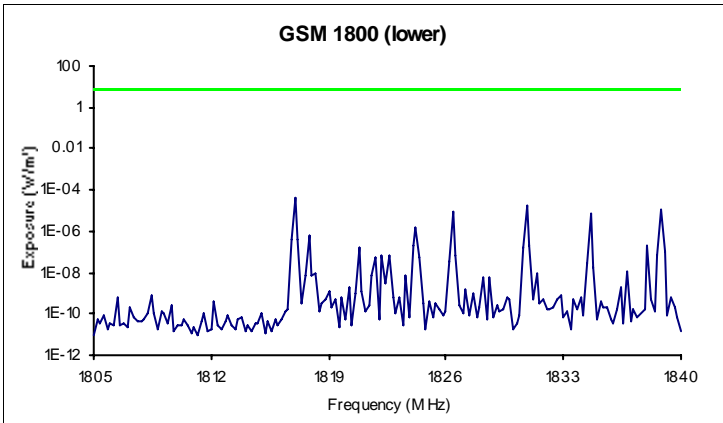
Total number of measurements: 572

**Total Band Exposure Quotient:** **1.25E-04**

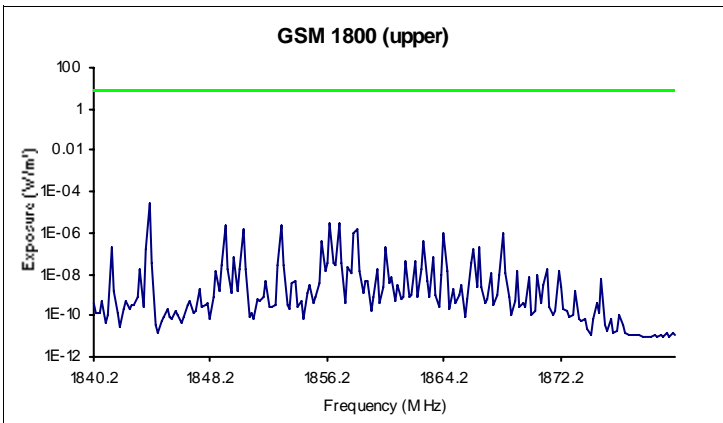
<b>Site:</b> Area around Moseley Court	<b>Receiver:</b>
<b>Location:</b> Parking area at end of Avon Drive	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> SP 0869 8265 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 06 October 2005 13:19:02	Serial Number: 837.752/003
<b>Officer:</b> John Taylor	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
958.400	3.65E-04	4.79	7.62E-05
955.600	2.88E-04	4.78	6.03E-05
947.000	2.24E-04	4.74	4.74E-05
958.200	3.48E-06	4.79	7.27E-07
955.800	3.23E-06	4.78	6.77E-07
958.600	3.04E-06	4.79	6.34E-07
955.400	2.63E-06	4.78	5.50E-07
946.800	2.14E-06	4.73	4.52E-07
931.400	1.60E-06	4.66	3.45E-07
932.200	1.50E-06	4.66	3.22E-07
<b>Band Exposure Quotient:</b>			<b>1.89E-04</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,817.000	4.14E-05	9.09	4.55E-06
1,830.800	1.85E-05	9.15	2.02E-06
1,838.800	1.10E-05	9.19	1.20E-06
1,826.400	9.63E-06	9.13	1.05E-06
1,834.600	6.61E-06	9.17	7.20E-07
1,824.200	1.45E-06	9.12	1.59E-07
1,817.800	6.27E-07	9.09	6.90E-08
1,817.200	4.24E-07	9.09	4.66E-08
1,816.800	4.04E-07	9.08	4.45E-08
1,824.000	2.20E-07	9.12	2.41E-08
<b>Band Exposure Quotient:</b>			<b>1.00E-05</b>

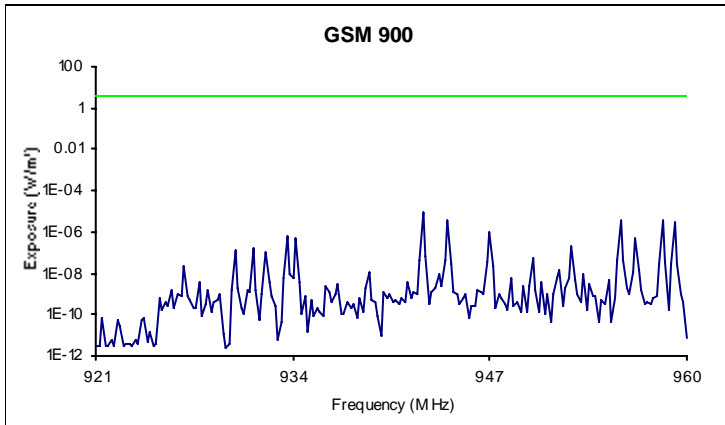


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,844.000	2.74E-05	9.22	2.97E-06
1,857.000	3.21E-06	9.29	3.46E-07
1,856.400	2.79E-06	9.28	3.01E-07
1,853.000	2.48E-06	9.27	2.67E-07
1,849.200	2.14E-06	9.25	2.32E-07
1,850.400	1.67E-06	9.25	1.80E-07
1,858.200	1.37E-06	9.29	1.48E-07
1,864.200	1.03E-06	9.32	1.10E-07
1,858.000	9.50E-07	9.29	1.02E-07
1,868.200	9.02E-07	9.34	9.66E-08
<b>Band Exposure Quotient:</b>			<b>5.03E-06</b>

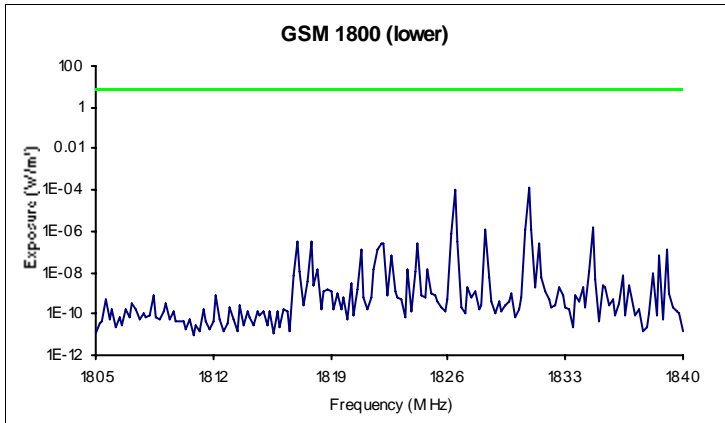
Total number of measurements: 572

**Total Band Exposure Quotient:** **2.04E-04**

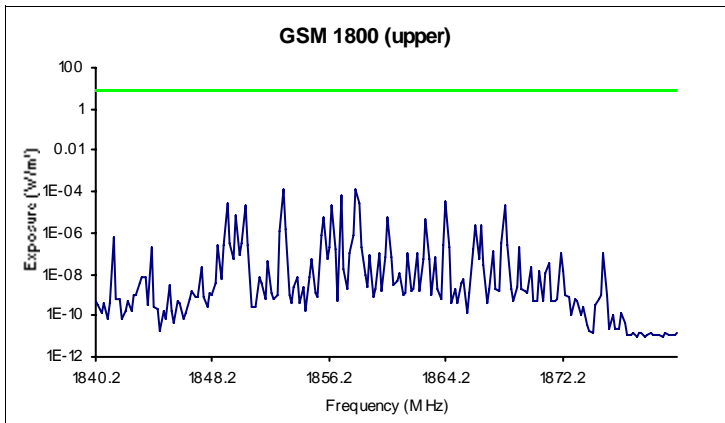
<b>Site:</b> Area around Moseley Court	<b>Receiver:</b>
<b>Location:</b> Moseley Court car park	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> SP 0878 8276 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 06 October 2005 13:39:27	Serial Number: 837.752/003
<b>Officer:</b> John Taylor	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
942.600	8.45E-06	4.71	1.79E-06
955.600	4.07E-06	4.78	8.52E-07
944.200	3.87E-06	4.72	8.21E-07
958.400	3.49E-06	4.79	7.28E-07
959.200	2.84E-06	4.80	5.92E-07
947.000	1.07E-06	4.74	2.27E-07
933.600	6.42E-07	4.67	1.38E-07
934.200	5.23E-07	4.67	1.12E-07
956.600	4.90E-07	4.78	1.03E-07
952.400	2.17E-07	4.76	4.56E-08
<b>Band Exposure Quotient:</b>			<b>5.65E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,830.800	1.28E-04	9.15	1.40E-05
1,826.400	1.06E-04	9.13	1.16E-05
1,834.600	1.51E-06	9.17	1.65E-07
1,830.600	1.22E-06	9.15	1.33E-07
1,831.000	1.19E-06	9.15	1.30E-07
1,828.200	1.08E-06	9.14	1.19E-07
1,826.200	7.65E-07	9.13	8.38E-08
1,826.600	3.34E-07	9.13	3.66E-08
1,817.000	3.14E-07	9.09	3.45E-08
1,817.800	3.07E-07	9.09	3.38E-08
<b>Band Exposure Quotient:</b>			<b>2.65E-05</b>



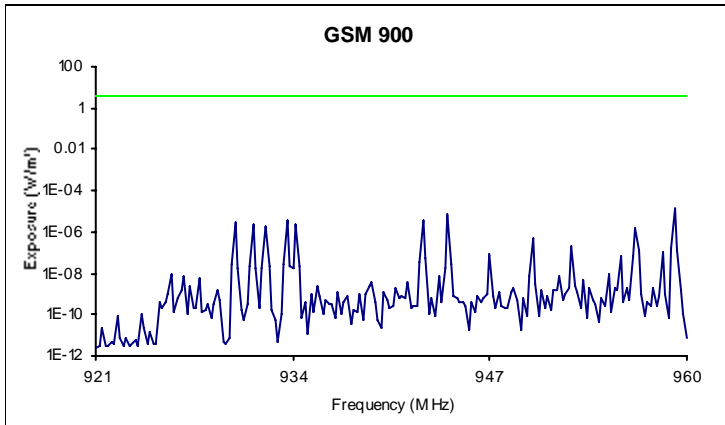
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,853.000	1.27E-04	9.27	1.37E-05
1,858.000	1.22E-04	9.29	1.32E-05
1,857.000	6.26E-05	9.29	6.74E-06
1,864.200	3.57E-05	9.32	3.83E-06
1,849.200	2.89E-05	9.25	3.13E-06
1,858.200	2.62E-05	9.29	2.82E-06
1,868.200	2.43E-05	9.34	2.60E-06
1,850.400	2.35E-05	9.25	2.54E-06
1,856.400	2.07E-05	9.28	2.23E-06
1,849.800	7.79E-06	9.25	8.42E-07
<b>Band Exposure Quotient:</b>			<b>5.49E-05</b>

Total number of measurements: 572

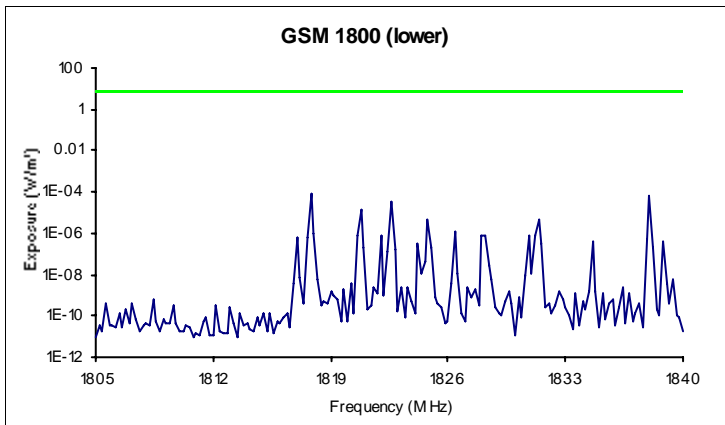
**Total Band Exposure Quotient:** **8.70E-05**



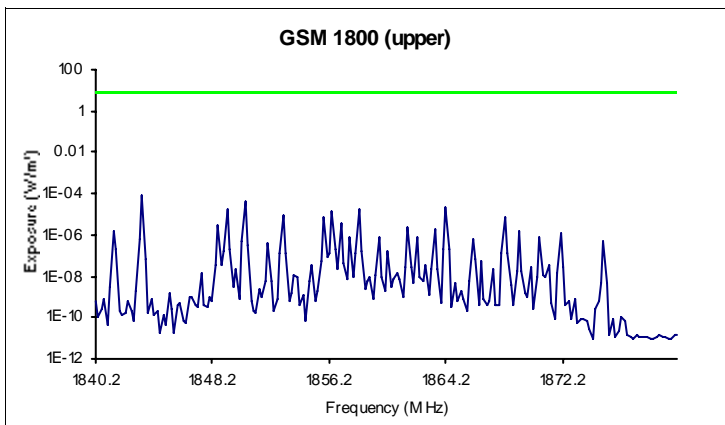
<b>Site:</b>	Area around Moseley Court	<b>Receiver:</b>	Manufacturer: ROHDE&SCHWARZ Model: EB200 Serial Number: 837.752/003
<b>Location:</b>	Junction of Yardley Wood Road with Wake Green Road	<b>Antenna:</b>	Manufacturer: Rohde & Schwarz Model: HE200 Serial Number: 728264/025
<b>NGR:</b>	SP 0885 8283 <b>Taken from GPS</b>		
<b>Start Time:</b>	06 October 2005 13:58:01		
<b>Officer:</b>	John Taylor		



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
959.200	1.36E-05	4.80	2.83E-06
944.200	7.38E-06	4.72	1.56E-06
942.600	4.04E-06	4.71	8.58E-07
933.600	3.45E-06	4.67	7.39E-07
930.200	2.78E-06	4.65	5.98E-07
934.200	2.44E-06	4.67	5.23E-07
931.400	2.16E-06	4.66	4.65E-07
932.200	2.02E-06	4.66	4.34E-07
956.600	1.52E-06	4.78	3.17E-07
949.800	5.29E-07	4.75	1.11E-07
<b>Band Exposure Quotient:</b>			<b>8.75E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,817.800	7.89E-05	9.09	8.69E-06
1,838.000	6.35E-05	9.19	6.91E-06
1,822.600	3.24E-05	9.11	3.56E-06
1,820.800	1.55E-05	9.10	1.70E-06
1,824.800	4.71E-06	9.12	5.16E-07
1,831.400	4.24E-06	9.16	4.63E-07
1,826.400	1.11E-06	9.13	1.21E-07
1,818.000	8.86E-07	9.09	9.75E-08
1,828.200	8.04E-07	9.14	8.79E-08
1,830.800	7.89E-07	9.15	8.62E-08
<b>Band Exposure Quotient:</b>			<b>2.30E-05</b>

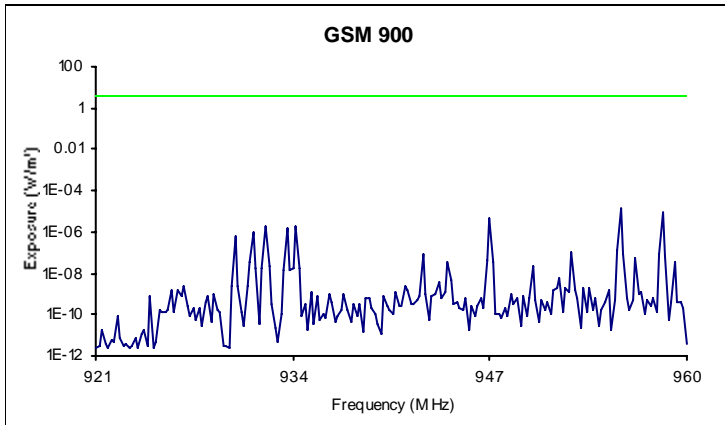


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,843.400	7.88E-05	9.22	8.55E-06
1,850.400	4.09E-05	9.25	4.42E-06
1,864.200	2.36E-05	9.32	2.53E-06
1,849.200	1.87E-05	9.25	2.02E-06
1,858.200	1.58E-05	9.29	1.70E-06
1,856.400	1.31E-05	9.28	1.41E-06
1,853.000	9.41E-06	9.27	1.02E-06
1,868.200	7.16E-06	9.34	7.67E-07
1,855.800	6.54E-06	9.28	7.05E-07
1,857.000	3.77E-06	9.29	4.06E-07
<b>Band Exposure Quotient:</b>			<b>2.58E-05</b>

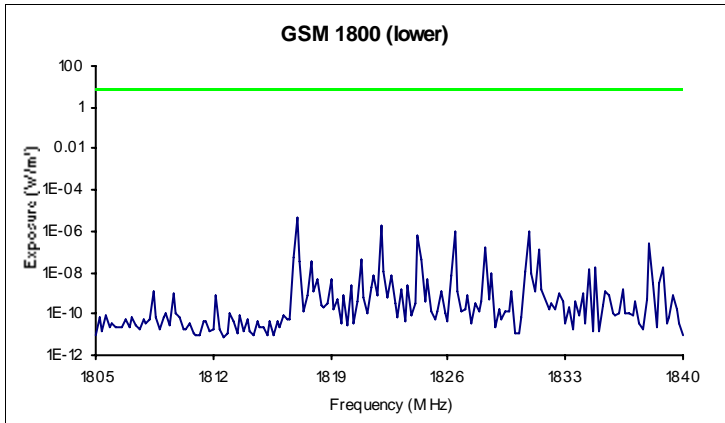
Total number of measurements: 572

**Total Band Exposure Quotient:** **5.76E-05**

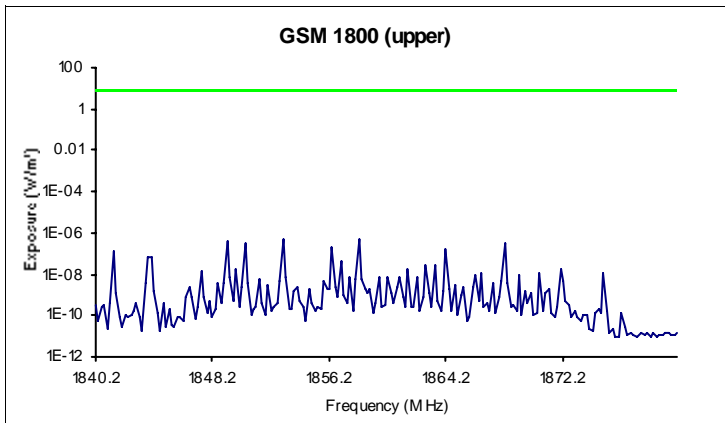
<b>Site:</b> Area around Moseley Court	<b>Receiver:</b>
<b>Location:</b> Footpath at entrance to Redford Close	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> SP 0880 8267 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 06 October 2005 14:17:11	Serial Number: 837.752/003
<b>Officer:</b> John Taylor	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
955.600	1.32E-05	4.78	2.76E-06
958.400	8.76E-06	4.79	1.83E-06
947.000	4.91E-06	4.74	1.04E-06
932.200	1.98E-06	4.66	4.24E-07
934.200	1.73E-06	4.67	3.71E-07
933.600	1.54E-06	4.67	3.30E-07
931.400	9.23E-07	4.66	1.98E-07
930.200	5.95E-07	4.65	1.28E-07
955.400	1.20E-07	4.78	2.51E-08
952.400	1.17E-07	4.76	2.45E-08
<b>Band Exposure Quotient:</b>			<b>7.29E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,817.000	4.54E-06	9.09	4.99E-07
1,822.000	1.95E-06	9.11	2.14E-07
1,826.400	1.08E-06	9.13	1.18E-07
1,830.800	9.93E-07	9.15	1.09E-07
1,824.200	6.79E-07	9.12	7.45E-08
1,838.000	2.36E-07	9.19	2.57E-08
1,828.200	1.64E-07	9.14	1.80E-08
1,831.400	1.44E-07	9.16	1.57E-08
1,816.800	5.71E-08	9.08	6.29E-09
1,820.800	4.26E-08	9.10	4.68E-09
<b>Band Exposure Quotient:</b>			<b>1.12E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,853.000	4.72E-07	9.27	5.09E-08
1,858.200	4.55E-07	9.29	4.89E-08
1,849.200	4.08E-07	9.25	4.42E-08
1,868.200	3.27E-07	9.34	3.51E-08
1,850.400	2.96E-07	9.25	3.20E-08
1,856.400	1.89E-07	9.28	2.04E-08
1,864.200	1.79E-07	9.32	1.92E-08
1,841.400	1.27E-07	9.21	1.38E-08
1,843.800	6.71E-08	9.22	7.28E-09
1,844.000	6.27E-08	9.22	6.80E-09
<b>Band Exposure Quotient:</b>			<b>3.22E-07</b>

Total number of measurements: 572

**Total Band Exposure Quotient:** **8.72E-06**

## Glossary

- Site:** The building or area around which sets of measurements are taken
- Location:** The position within a site at which a single set of measurements is taken. A set of measurements consists of multiple scans of many frequencies within a number of bands
- Band:** A portion of the electromagnetic spectrum reserved for specific radio services
- NGR:** The Ordnance Survey national grid reference coordinates of the location. In this survey NGRs are specified to 8-digit (10-metre) resolution. E.g. SJ 9755 9888
- GPS:** The Global Positioning System
- Start Time:** The date and time at which the receiver started taking its measurements at a location
- Officer:** The name of the RA representative who carried out the audit
- Receiver:** The receiver used to perform the measurements
- Antenna:** The antenna used to perform the measurements
- Exposure:** The maximum measured electric field strength (dB( $\mu$ V/m)) converted to an equivalent power density (W/m<sup>2</sup>)
- Power Density:** The electromagnetic energy flowing through a unit area normal to the direction of propagation in a unit time. Measured in Watts per square metre (W/m<sup>2</sup>)
- ICNIRP Limit:** The reference level given by the International Commission for Non-Ionizing Radiation Protection (ICNIRP) for general public exposure to electromagnetic fields

<b>Frequency</b>	<b>ICNIRP limit</b>
10MHz to 400 MHz	2 W/m <sup>2</sup>
400MHz to 2GHz	f / 200 W/m <sup>2</sup>
2GHz to 300GHz	10 W/m <sup>2</sup>

(where f is frequency in MHz)

**Frequency Exposure Quotient:**

The ratio of the measured maximum power density to the ICNIRP limit at a given frequency. A value close to 1 signifies that exposure levels could be near to the ICNIRP limit for that frequency

**Band Exposure Quotient:**

The sum of the frequency exposure quotients for a single band at a location

**Total Band Exposure Quotient:**

The sum of the frequency exposure quotients for all of the measured bands at a location

- GSM:** Global System for Mobile communication
- ETACS:** Extended Total Access Communications
- TETRA:** Terrestrial Trunked Radio
- 3G:** Third Generation mobile-phone services

- 1.00E-03:** Exponential (or 'scientific') number format. Equal to one thousandth
- 1.00E-06:** Equal to one millionth
- 1.00E-09:** Equal to one thousand-millionth
- 1.00E-12:** Equal to one million-millionth