

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



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

**Audit Site:** Hampton Junior School  
Percy Road  
Hampton  
TW12 2LA

Work Performed by		Distribution List	
James Loughlin Field Manager	3G measurements & Report	Lloyd Tailby	1
Mike Reynolds Field Officer	3G measurements	Malcolm Rivers	1
W. White T.I. Officer	2G measurements & 2G Report	W. White	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 Hampton Junior School, Percy Road, Hampton on the 27th September 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
Playground (outside Welfare Rooms)	2.34E-06	9.16E-05	9.39E-05	1/10645
Playground (outside The Green Room)	1.38E-06	5.87E-05	6.01E-05	1/16644
Food Technology Room	1.35E-06	3.28E-05	3.42E-05	1/29283
Playground (Art Space)	4.70E-07	3.29E-05	3.34E-05	1/29967
Main Hall	1.03E-07	3.13E-05	3.14E-05	1/31844
Playground (outside Main Hall)	2.03E-06	2.60E-05	2.80E-05	1/35676
Upper Hall	4.73E-06	2.33E-05	2.80E-05	1/35676

The Cheshunt 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.

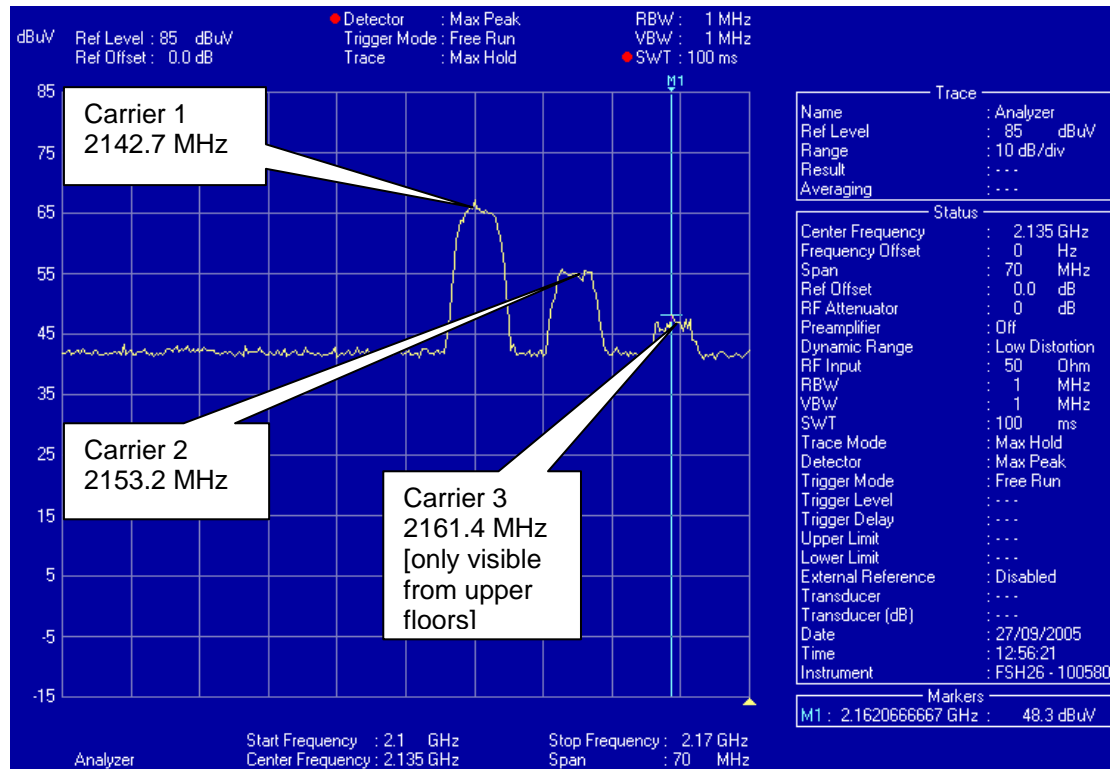


Figure 1

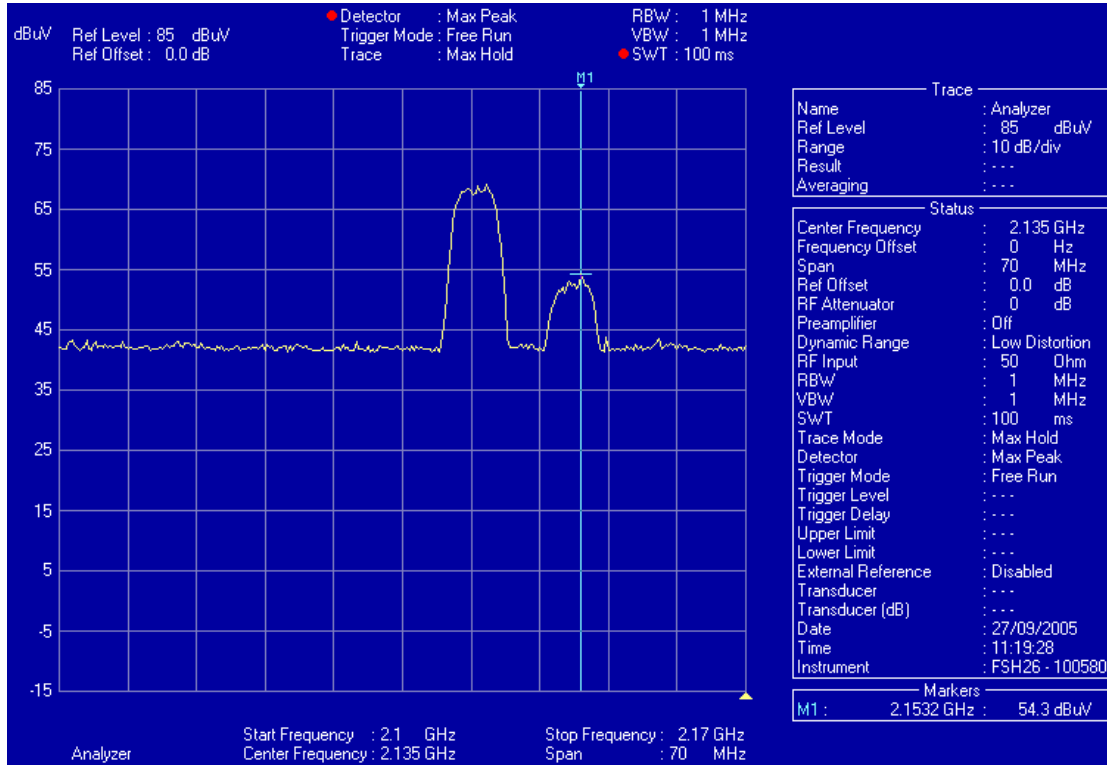
Figure 1 shows that a maximum of three transmissions were active in this area. At each measurement location the measuring antenna was then set up on a tripod 1.5m above ground or floor level. In this position each of the carriers field strengths were recorded.

For each measurement location the 3G exposure quotient was then calculated for the individual carriers and then the total exposure quotient for all 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 11, 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 ML2/002	196	-

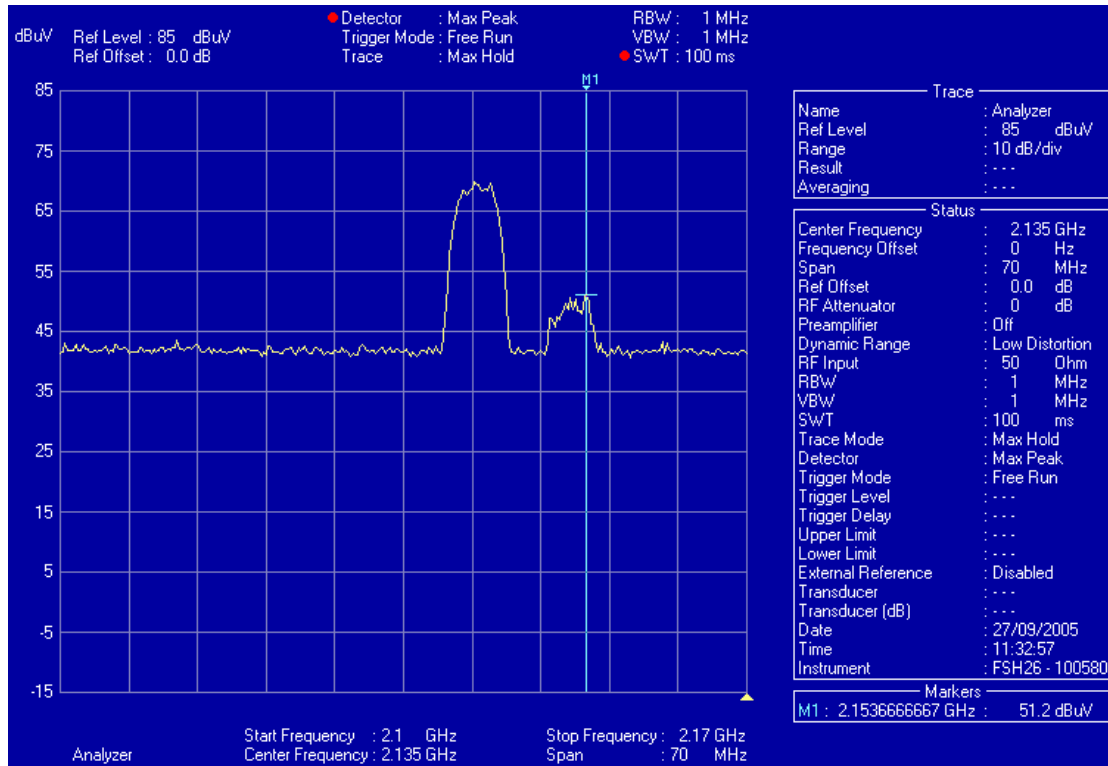
Location 1: Playground (outside Main Hall)



Location 1: Playground (outside Main Hall)

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	2142.7	98.7	86,099.4	0.086099	0.0000196632	1.966E-05	10	0.000001966320	1.97E-06
2	2153.2	83.8	15,488.2	0.015488	0.0000006363	6.363E-07	10	0.00000063630	6.36E-08
3	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
									<b>TOTAL</b> 2.03E-06

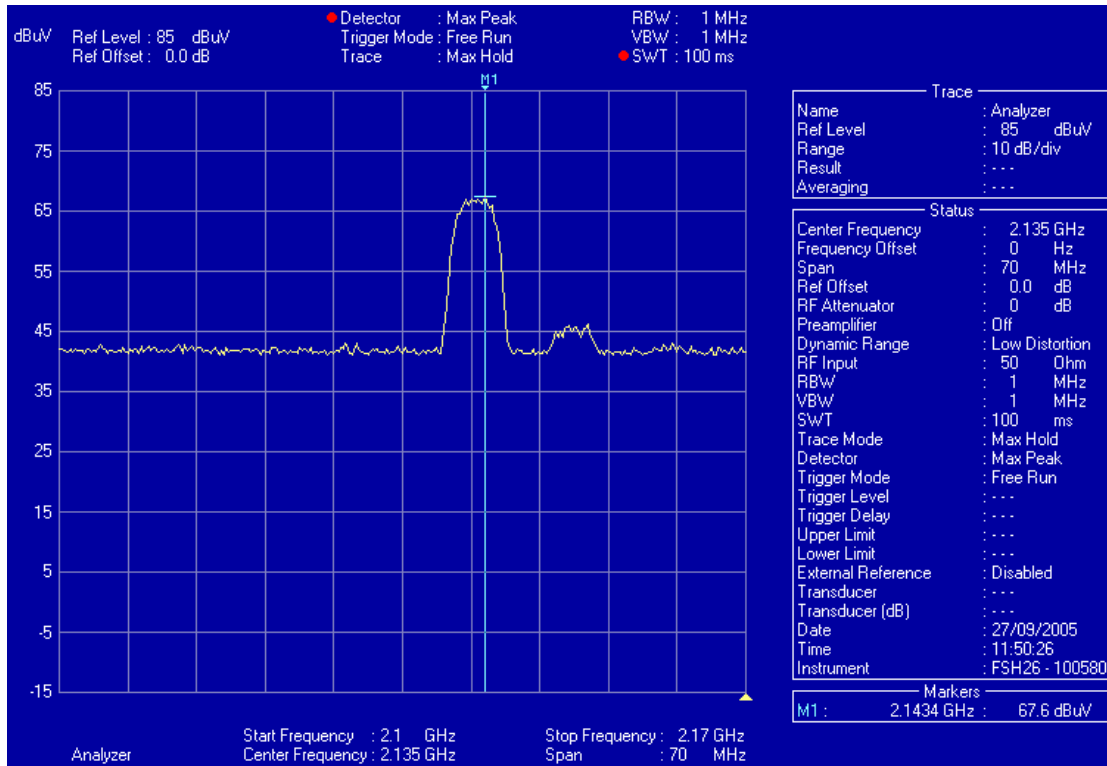
Location 2: Playground (outside Welfare Rooms)



Location 2: Playground (outside Welfare Room)

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	2142.7	99.4	93,325.4	0.093325	0.0000231023	2.31E-05	10	0.000002310230	2.31E-06
2	2153.2	80.7	10,839.3	0.010839	0.0000003116	3.116E-07	10	0.000000031160	3.12E-08
3	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
									<b>TOTAL</b> 2.34E-06

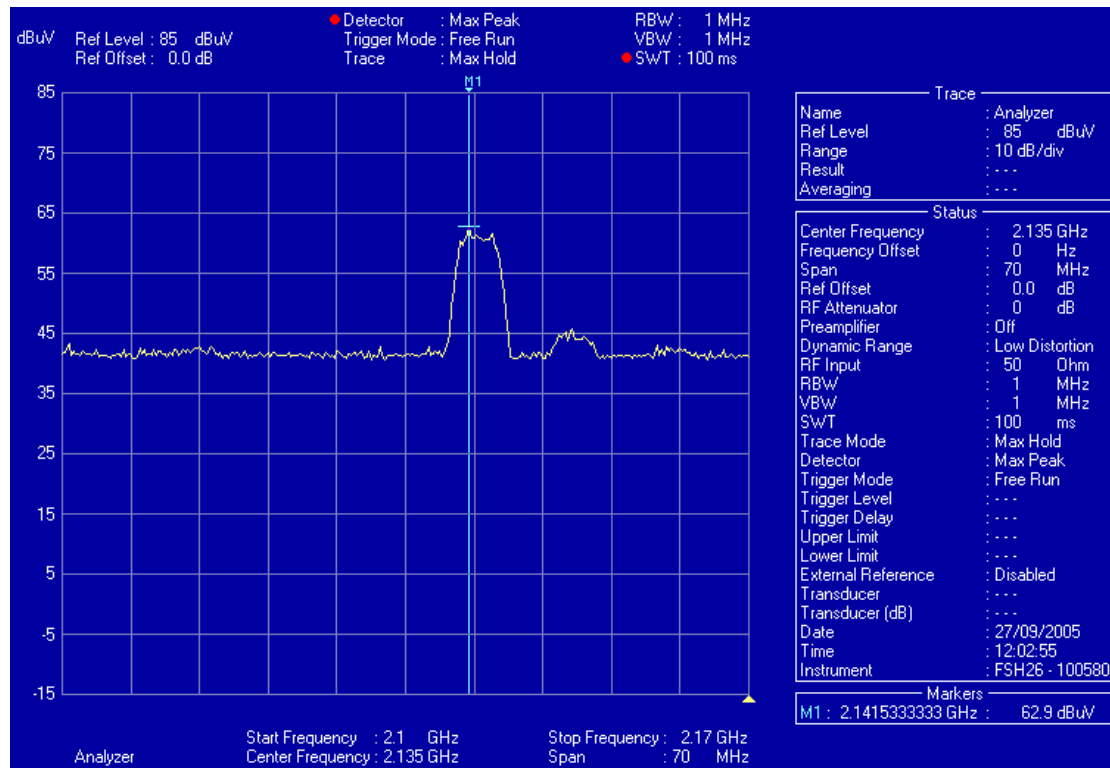
Location 3: Playground (outside The Green Room)



Location 3: Playground (outside The Green Room)

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	2142.7	97.1	71,614.3	0.071614	0.0000136036	1.36E-05	10	0.000001360360	1.36E-06
2	2153.2	78.9	8,810.5	0.008811	0.0000002059	2.059E-07	10	0.000000020590	2.06E-08
3	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
									<b>TOTAL</b> 1.38E-06

Location 4: Playground (Art Space)

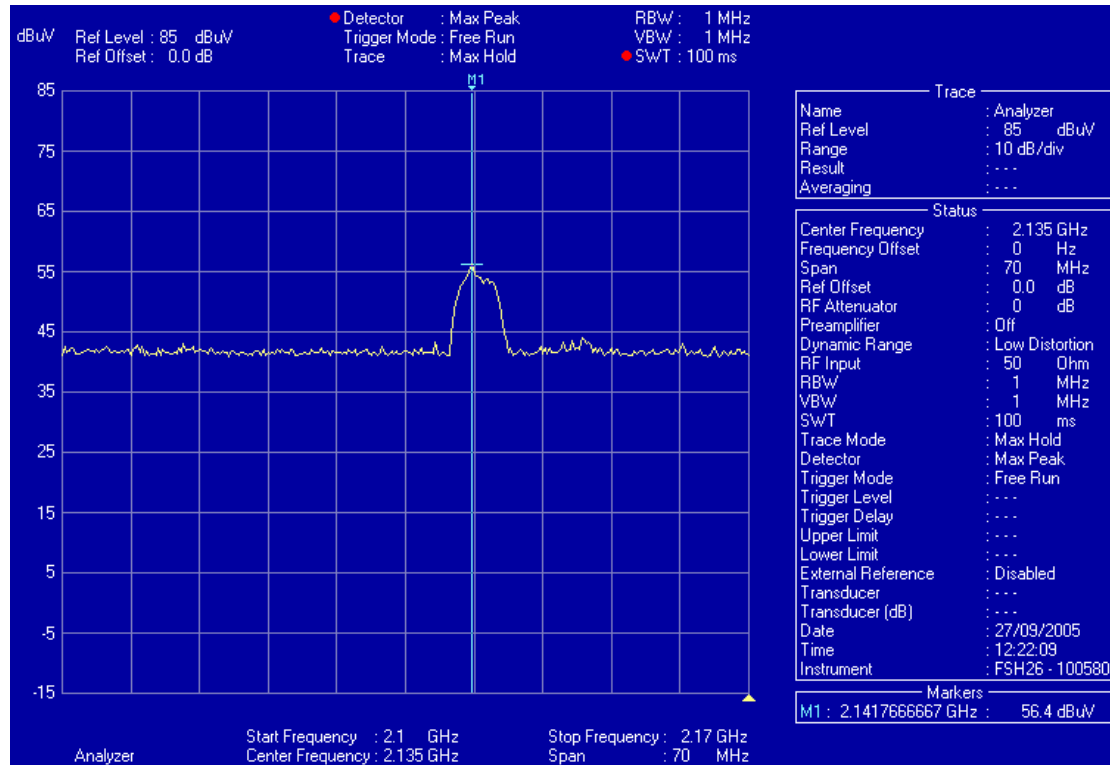


Location 4 Playground (Art Space)

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	2142.7	92.4	41,686.9	0.041687	0.0000046096	4.61E-06	10	0.000000460960	4.61E-07
2	2153.2	75.4	5,888.4	0.005888	0.0000000920	9.2E-08	10	0.000000009200	9.20E-09
3	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
									<b>TOTAL</b> 4.70E-07



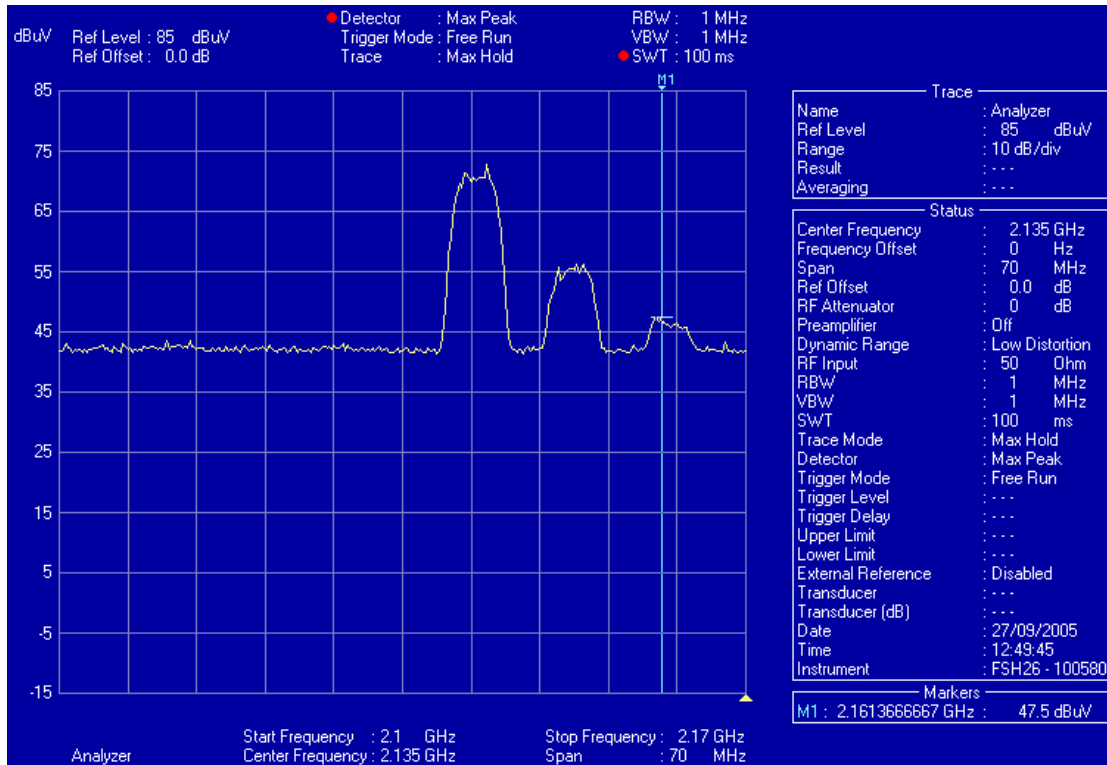
Location 5: Main Hall (Ground floor)



Location 5: Main Hall

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	2142.7	85.9	19,724.2	0.019724	0.0000010319	1.032E-06	10	0.000000103190	1.03E-07
2	2153.2		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
3	not seen		1.0	0.000001	0.0000000000	0	10	0.000000000000	0.00E+00
									<b>TOTAL</b> 1.03E-07

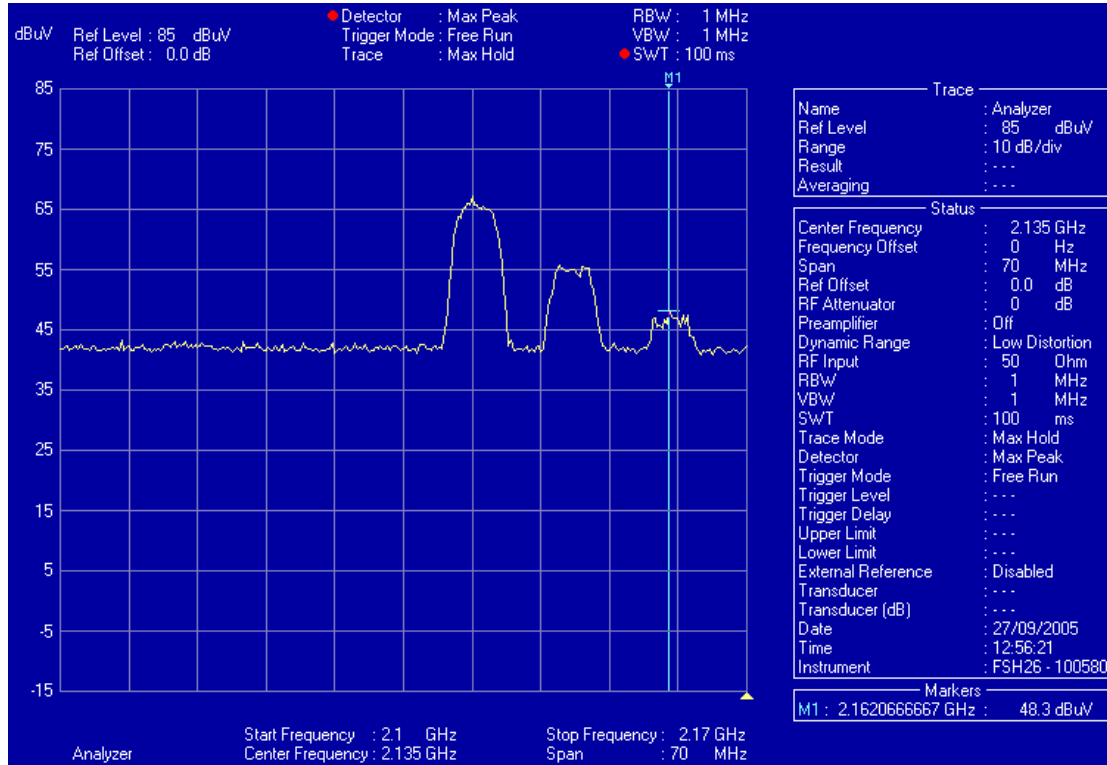
Location 6: Upper Hall (first floor)



Location 6: Upper Hall

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	2142.7	102.4	131,825.7	0.131826	0.0000460957	4.61E-05	10	0.000004609570	4.61E-06
2	2153.2	85.9	19,724.2	0.019724	0.0000010319	1.032E-06	10	0.000000103190	1.03E-07
3	2161.4	77	7,079.5	0.007080	0.0000001330	1.33E-07	10	0.000000013300	1.33E-08
									<b>TOTAL</b> 4.73E-06

Location 7: Food Technology Room



Location 7: Food Technology Room

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	2142.7	96.7	68,391.2	0.068391	0.0000124067	1.241E-05	10	0.000001240670	1.24E-06
2	2153.2	85.4	18,620.9	0.018621	0.0000009197	9.197E-07	10	0.00000091970	9.20E-08
3	2161.4	77.8	7,762.5	0.007763	0.0000001599	1.599E-07	10	0.00000015990	1.60E-08
									<b>TOTAL</b> 1.35E-06

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## **Annex**

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

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

**Audit site: THE HAMPTON JUNIOR SCHOOL  
PERCY ROAD  
HAMPTON  
TW12 2LA**

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, Ofcom 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 THE HAMPTON JUNIOR SCHOOL on 27 September 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
PLAYGROUND (OUTSIDE WELFARE ROOMS)	9.16E-05	1/10918
PLAYGROUND (OUTSIDE GREEN ROOM)	5.87E-05	1/17045
PLAYGROUND (ART SPACE)	3.29E-05	1/30417
FOOD TECHNOLOGY ROOM	3.28E-05	1/30458
MAIN HALL	3.13E-05	1/31979
PLAYGROUND (OUTSIDE MAIN HALL)	2.60E-05	1/38423
UPPER HALL	2.33E-05	1/43001

Issued on behalf of Ofcom.

Issued by:

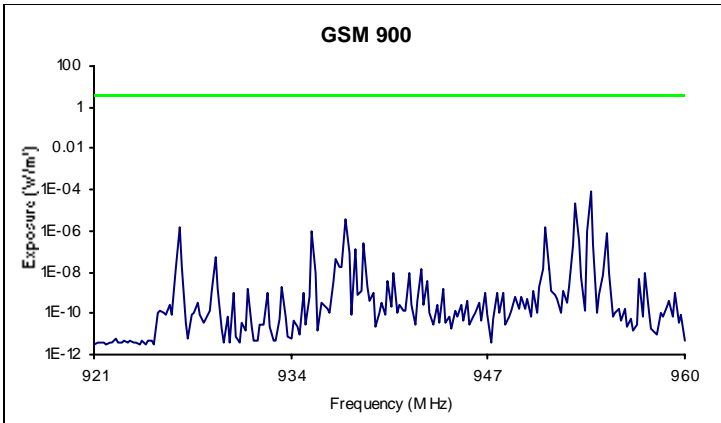
Received by:

BW  
Technical Investigation Officer

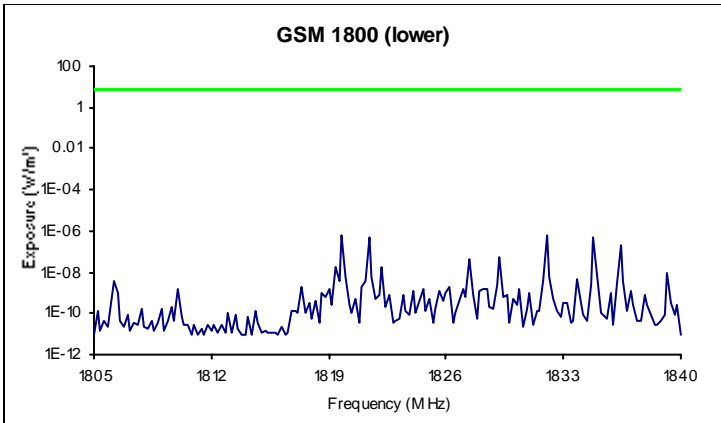
MALCOLM RIVERS  
HEADMASTER

**Site:** THE HAMPTON JUNIOR SCHOOL  
**Location:** PLAYGROUND (OUTSIDE MAIN HALL)  
**NGR:** TQ 1324 6985 **Taken from GPS**  
**Start Time:** 27 September 2005 11:26:07  
**Officer:** BW

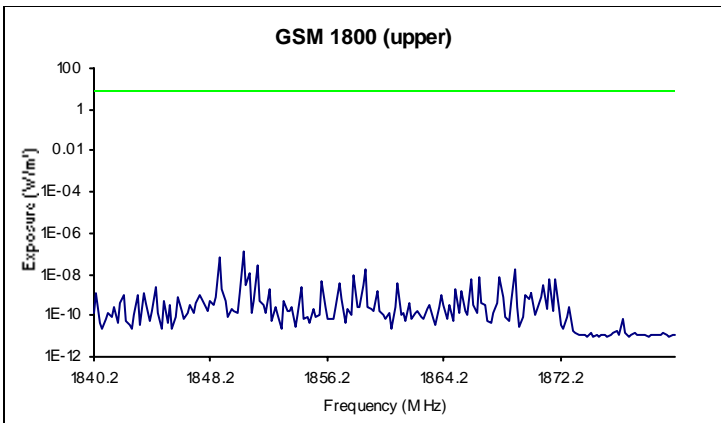
**Receiver:**  
 Manufacturer: ROHDE&SCHWARZ  
 Model: EB200  
 Serial Number: 837.752/028  
**Antenna:**  
 Manufacturer: Rohde & Schwarz  
 Model: HE200  
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
953.800	8.87E-05	4.77	1.86E-05
952.800	2.27E-05	4.76	4.77E-06
937.600	3.56E-06	4.69	7.60E-07
926.600	1.62E-06	4.63	3.51E-07
950.800	1.53E-06	4.75	3.22E-07
935.400	9.32E-07	4.68	1.99E-07
953.600	9.07E-07	4.77	1.90E-07
954.800	8.49E-07	4.77	1.78E-07
953.000	3.14E-07	4.76	6.59E-08
938.800	2.36E-07	4.69	5.03E-08
<b>Band Exposure Quotient:</b>			<b>2.57E-05</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,819.800	6.74E-07	9.10	7.41E-08
1,832.000	6.73E-07	9.16	7.35E-08
1,821.400	4.57E-07	9.11	5.02E-08
1,834.800	4.47E-07	9.17	4.87E-08
1,836.400	1.91E-07	9.18	2.08E-08
1,829.200	5.83E-08	9.15	6.38E-09
1,827.400	4.51E-08	9.14	4.94E-09
1,822.200	1.78E-08	9.11	1.95E-09
1,819.400	1.69E-08	9.10	1.86E-09
1,839.200	8.78E-09	9.20	9.55E-10
<b>Band Exposure Quotient:</b>			<b>2.95E-07</b>

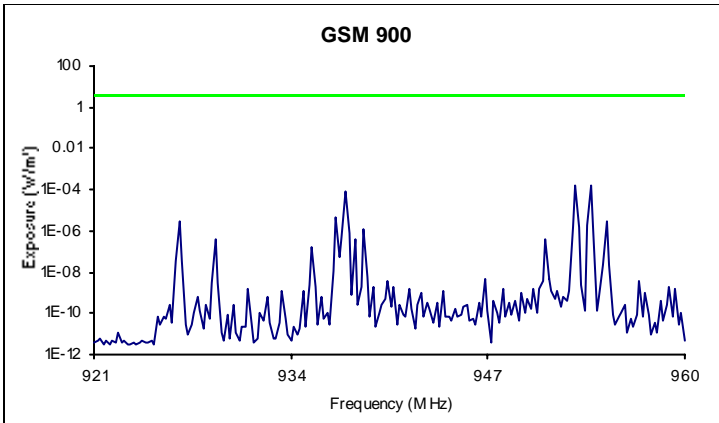


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,850.400	1.42E-07	9.25	1.53E-08
1,848.800	6.62E-08	9.24	7.16E-09
1,851.400	2.53E-08	9.26	2.73E-09
1,869.000	1.80E-08	9.35	1.93E-09
1,858.800	1.73E-08	9.29	1.86E-09
1,850.800	1.13E-08	9.25	1.22E-09
1,858.000	9.50E-09	9.29	1.02E-09
1,868.000	7.33E-09	9.34	7.85E-10
1,866.600	7.31E-09	9.33	7.83E-10
1,866.000	6.07E-09	9.33	6.51E-10
<b>Band Exposure Quotient:</b>			<b>4.23E-08</b>

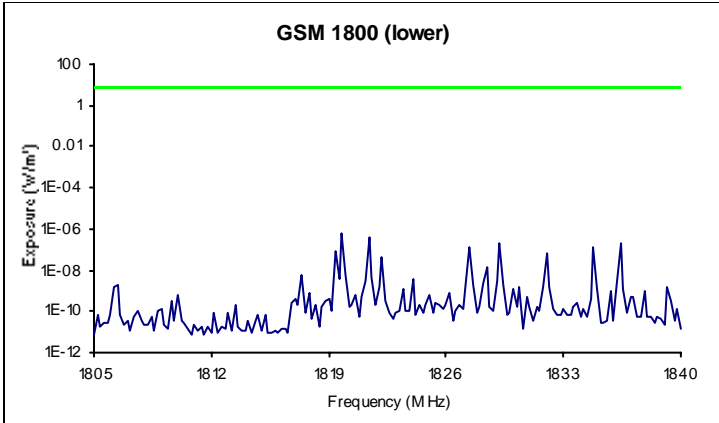


**Site:** THE HAMPTON JUNIOR SCHOOL  
**Location:** PLAYGROUND (OUTSIDE WELFARE ROOMS)  
**NGR:** TQ 1326 6986 **Taken from GPS**  
**Start Time:** 27 September 2005 11:41:40  
**Officer:** BW

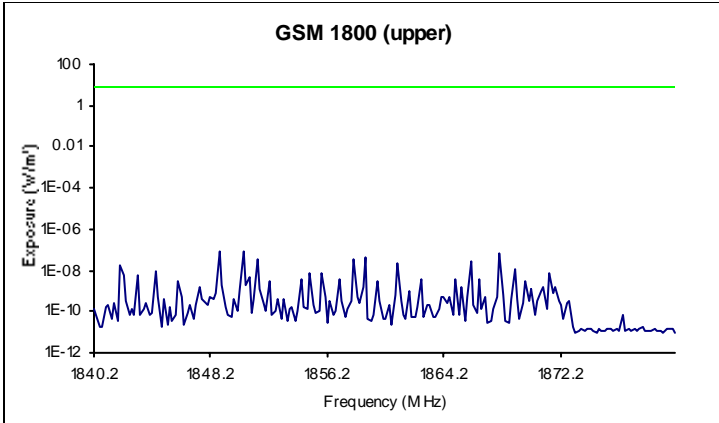
**Receiver:**  
 Manufacturer: ROHDE&SCHWARZ  
 Model: EB200  
 Serial Number: 837.752/028  
**Antenna:**  
 Manufacturer: Rohde & Schwarz  
 Model: HE200  
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
953.800	1.73E-04	4.77	3.63E-05
952.800	1.50E-04	4.76	3.15E-05
937.600	8.95E-05	4.69	1.91E-05
937.000	4.80E-06	4.68	1.02E-06
926.600	3.17E-06	4.63	6.83E-07
954.800	2.68E-06	4.77	5.62E-07
953.600	1.85E-06	4.77	3.88E-07
953.000	1.57E-06	4.76	3.30E-07
952.600	1.47E-06	4.76	3.08E-07
954.000	1.44E-06	4.77	3.02E-07
<b>Band Exposure Quotient:</b>			<b>9.13E-05</b>



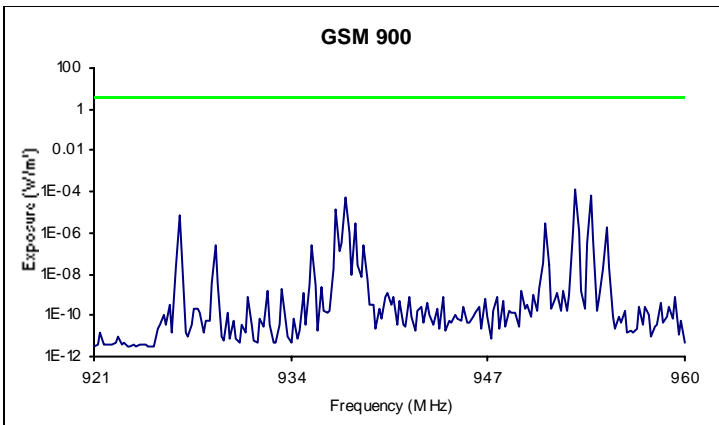
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,819.800	5.61E-07	9.10	6.16E-08
1,821.400	4.27E-07	9.11	4.68E-08
1,836.400	2.10E-07	9.18	2.28E-08
1,829.200	2.02E-07	9.15	2.21E-08
1,827.400	1.46E-07	9.14	1.60E-08
1,834.800	1.18E-07	9.17	1.28E-08
1,819.400	8.10E-08	9.10	8.91E-09
1,832.000	6.43E-08	9.16	7.02E-09
1,822.200	4.17E-08	9.11	4.58E-09
1,828.400	1.50E-08	9.14	1.64E-09
<b>Band Exposure Quotient:</b>			<b>2.13E-07</b>



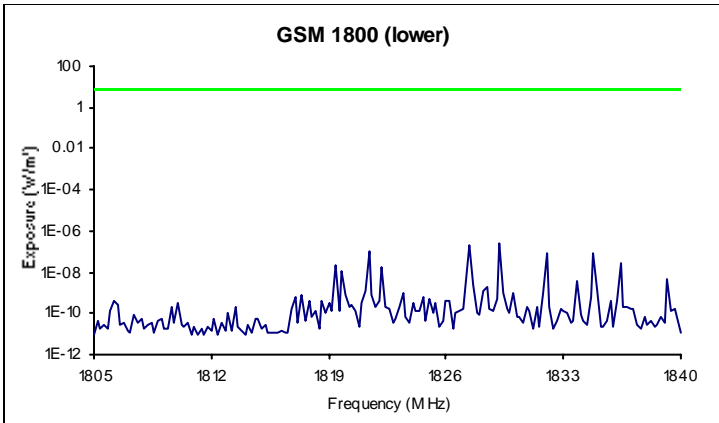
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,848.800	8.52E-08	9.24	9.22E-09
1,850.400	7.79E-08	9.25	8.42E-09
1,868.000	6.24E-08	9.34	6.68E-09
1,858.800	3.96E-08	9.29	4.26E-09
1,858.000	3.53E-08	9.29	3.80E-09
1,851.400	3.49E-08	9.26	3.77E-09
1,866.000	2.78E-08	9.33	2.98E-09
1,861.000	2.14E-08	9.30	2.30E-09
1,842.000	1.76E-08	9.21	1.91E-09
1,869.000	1.19E-08	9.35	1.27E-09
<b>Band Exposure Quotient:</b>			<b>5.78E-08</b>

**Site:** THE HAMPTON JUNIOR SCHOOL  
**Location:** PLAYGROUND (OUTSIDE GREEN ROOM)  
**NGR:** TQ 1327 6986 **Taken from GPS**  
**Start Time:** 27 September 2005 11:56:44  
**Officer:** BW

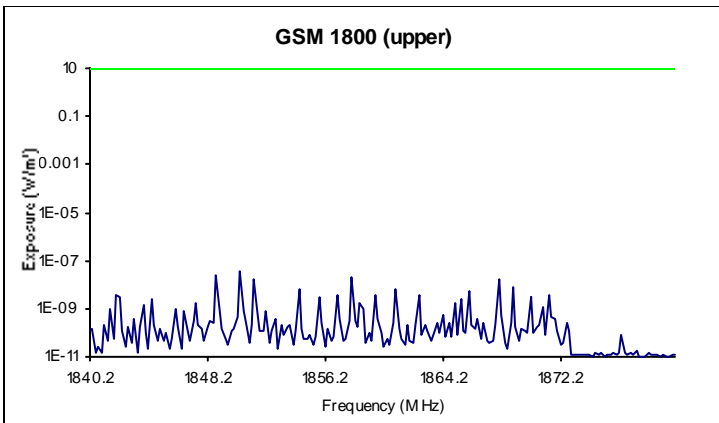
**Receiver:**  
 Manufacturer: ROHDE&SCHWARZ  
 Model: EB200  
 Serial Number: 837.752/028  
**Antenna:**  
 Manufacturer: Rohde & Schwarz  
 Model: HE200  
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
952.800	1.19E-04	4.76	2.51E-05
953.800	7.38E-05	4.77	1.55E-05
937.600	4.92E-05	4.69	1.05E-05
937.000	1.42E-05	4.68	3.02E-06
926.600	7.25E-06	4.63	1.57E-06
950.800	3.27E-06	4.75	6.88E-07
938.200	2.77E-06	4.69	5.90E-07
954.800	2.08E-06	4.77	4.36E-07
953.000	1.34E-06	4.76	2.81E-07
952.600	1.25E-06	4.76	2.62E-07
<b>Band Exposure Quotient:</b>			<b>5.86E-05</b>



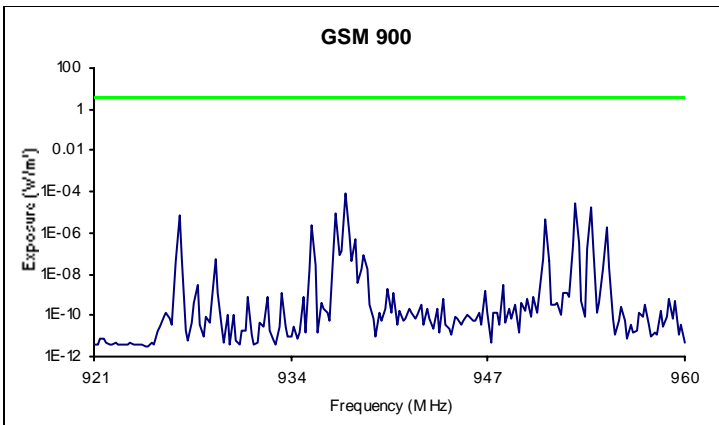
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,829.200	2.38E-07	9.15	2.60E-08
1,827.400	2.26E-07	9.14	2.48E-08
1,821.400	1.12E-07	9.11	1.23E-08
1,834.800	8.71E-08	9.17	9.50E-09
1,832.000	8.09E-08	9.16	8.83E-09
1,836.400	2.96E-08	9.18	3.22E-09
1,819.400	2.45E-08	9.10	2.69E-09
1,822.200	1.86E-08	9.11	2.05E-09
1,819.800	1.04E-08	9.10	1.15E-09
1,839.200	4.40E-09	9.20	4.78E-10
<b>Band Exposure Quotient:</b>			<b>9.51E-08</b>



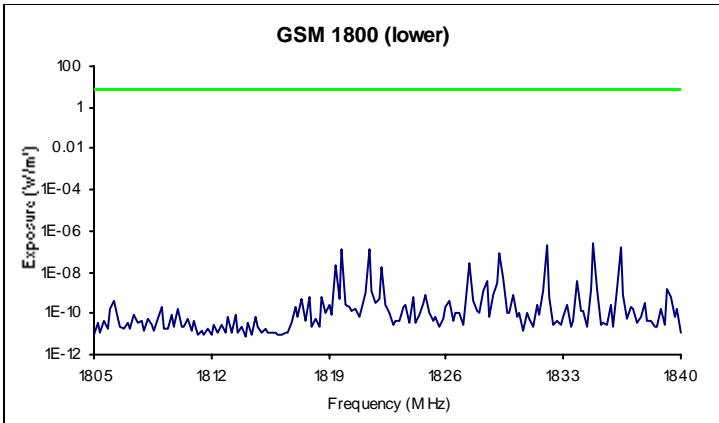
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,850.400	3.33E-08	9.25	3.59E-09
1,848.800	2.29E-08	9.24	2.48E-09
1,858.000	1.94E-08	9.29	2.09E-09
1,851.400	1.67E-08	9.26	1.80E-09
1,868.000	1.60E-08	9.34	1.72E-09
1,869.000	7.34E-09	9.35	7.86E-10
1,861.000	7.08E-09	9.30	7.60E-10
1,854.400	5.95E-09	9.27	6.42E-10
1,866.000	5.29E-09	9.33	5.67E-10
1,857.000	3.95E-09	9.29	4.26E-10
<b>Band Exposure Quotient:</b>			<b>2.16E-08</b>

**Site:** THE HAMPTON JUNIOR SCHOOL  
**Location:** PLAYGROUND (ART SPACE)  
**NGR:** TQ 1327 6984 **Taken from GPS**  
**Start Time:** 27 September 2005 12:12:47  
**Officer:** BW

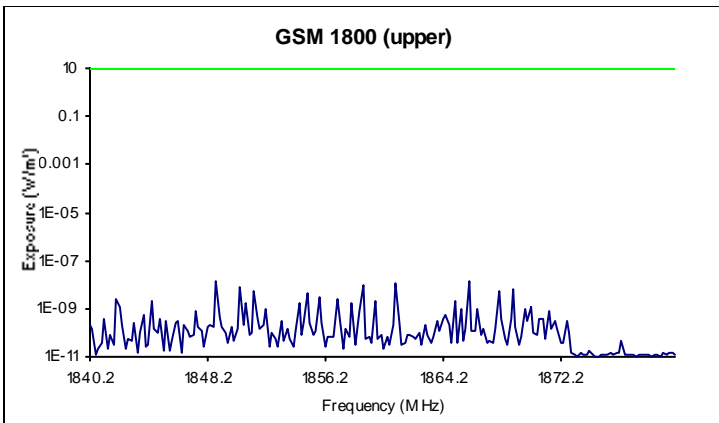
**Receiver:**  
 Manufacturer: ROHDE&SCHWARZ  
 Model: EB200  
 Serial Number: 837.752/028  
**Antenna:**  
 Manufacturer: Rohde & Schwarz  
 Model: HE200  
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
937.600	7.61E-05	4.69	1.62E-05
952.800	2.93E-05	4.76	6.15E-06
953.800	1.94E-05	4.77	4.07E-06
937.000	9.35E-06	4.68	2.00E-06
926.600	7.09E-06	4.63	1.53E-06
950.800	5.07E-06	4.75	1.07E-06
935.400	2.57E-06	4.68	5.49E-07
954.800	2.08E-06	4.77	4.36E-07
937.800	7.98E-07	4.69	1.70E-07
938.200	5.40E-07	4.69	1.15E-07
<b>Band Exposure Quotient:</b>			<b>3.27E-05</b>



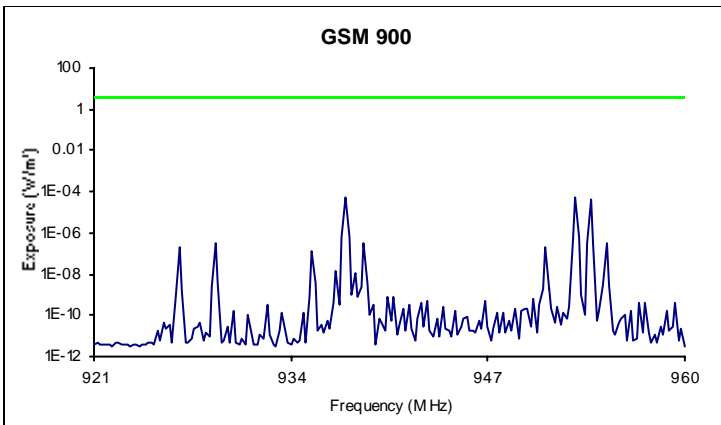
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,834.800	2.40E-07	9.17	2.62E-08
1,832.000	1.94E-07	9.16	2.12E-08
1,836.400	1.70E-07	9.18	1.86E-08
1,819.800	1.35E-07	9.10	1.48E-08
1,821.400	1.29E-07	9.11	1.41E-08
1,829.200	8.83E-08	9.15	9.65E-09
1,827.400	2.72E-08	9.14	2.98E-09
1,819.400	2.13E-08	9.10	2.34E-09
1,822.200	1.82E-08	9.11	2.00E-09
1,829.400	4.74E-09	9.15	5.19E-10
<b>Band Exposure Quotient:</b>			<b>1.17E-07</b>



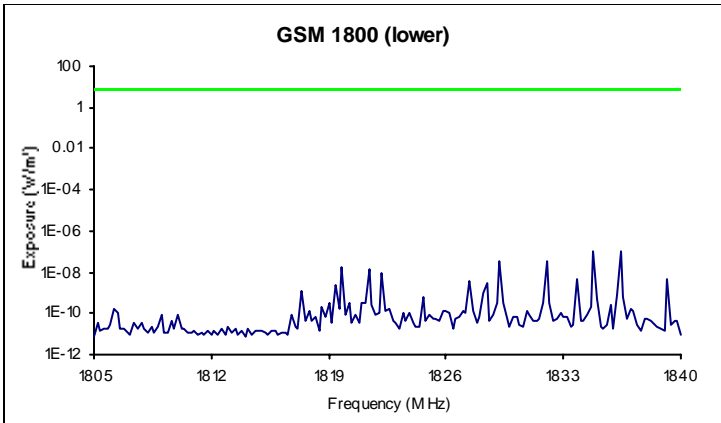
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,848.800	1.32E-08	9.24	1.43E-09
1,866.000	1.27E-08	9.33	1.36E-09
1,861.000	1.12E-08	9.30	1.21E-09
1,858.800	9.29E-09	9.29	1.00E-09
1,850.400	7.27E-09	9.25	7.86E-10
1,869.000	6.85E-09	9.35	7.33E-10
1,868.000	5.19E-09	9.34	5.55E-10
1,851.400	4.93E-09	9.26	5.32E-10
1,855.000	4.84E-09	9.28	5.22E-10
1,855.800	2.99E-09	9.28	3.22E-10
<b>Band Exposure Quotient:</b>			<b>1.32E-08</b>

**Site:** THE HAMPTON JUNIOR SCHOOL  
**Location:** MAIN HALL  
**NGR:** TQ 1322 6986 **Taken from GPS**  
**Start Time:** 27 September 2005 12:29:43  
**Officer:** BW

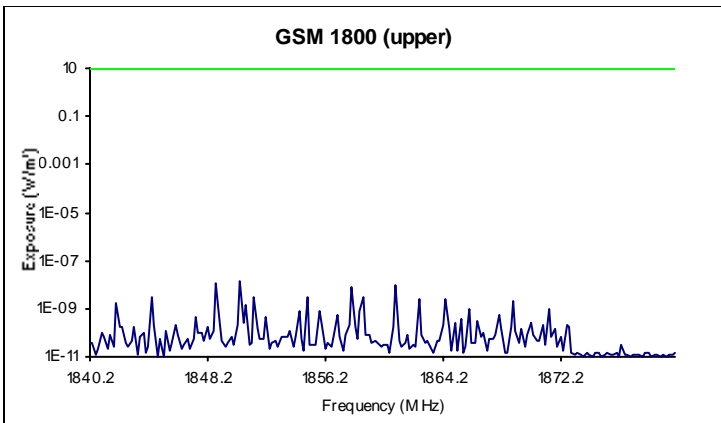
**Receiver:**  
 Manufacturer: ROHDE&SCHWARZ  
 Model: EB200  
 Serial Number: 837.752/028  
**Antenna:**  
 Manufacturer: Rohde & Schwarz  
 Model: HE200  
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
952.800	5.46E-05	4.76	1.15E-05
937.600	4.92E-05	4.69	1.05E-05
953.800	3.96E-05	4.77	8.31E-06
937.800	6.79E-07	4.69	1.45E-07
937.400	6.78E-07	4.69	1.45E-07
953.000	6.27E-07	4.76	1.32E-07
952.600	4.86E-07	4.76	1.02E-07
953.600	3.53E-07	4.77	7.40E-08
929.000	3.18E-07	4.64	6.86E-08
954.800	3.15E-07	4.77	6.61E-08
<b>Band Exposure Quotient:</b>			<b>3.12E-05</b>



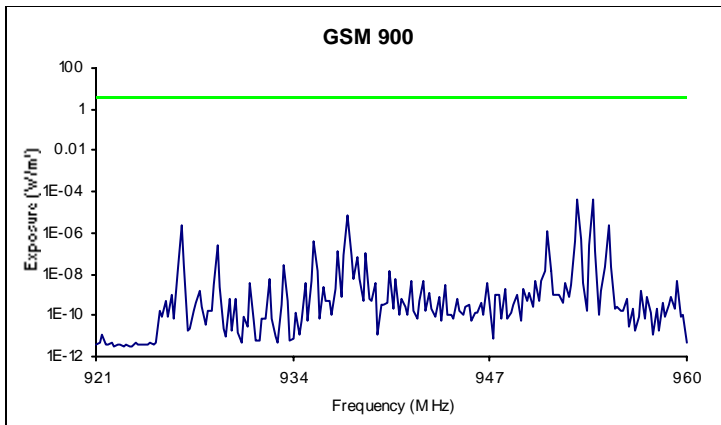
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,836.400	9.58E-08	9.18	1.04E-08
1,834.800	9.55E-08	9.17	1.04E-08
1,832.000	3.70E-08	9.16	4.04E-09
1,829.200	3.68E-08	9.15	4.02E-09
1,819.800	1.94E-08	9.10	2.14E-09
1,821.400	1.29E-08	9.11	1.41E-09
1,822.200	9.13E-09	9.11	1.00E-09
1,839.200	4.50E-09	9.20	4.90E-10
1,833.800	4.46E-09	9.17	4.86E-10
1,827.400	4.02E-09	9.14	4.40E-10
<b>Band Exposure Quotient:</b>			<b>3.71E-08</b>



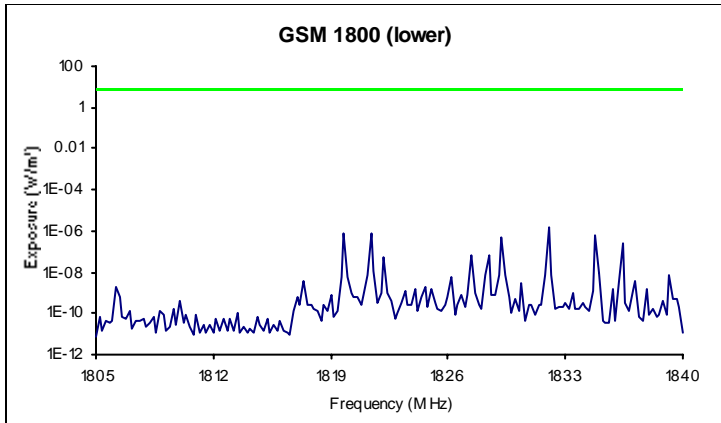
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,850.400	1.39E-08	9.25	1.50E-09
1,848.800	1.12E-08	9.24	1.22E-09
1,861.000	9.33E-09	9.30	1.00E-09
1,858.000	8.27E-09	9.29	8.90E-10
1,844.400	3.07E-09	9.22	3.33E-10
1,858.800	3.08E-09	9.29	3.31E-10
1,855.000	3.06E-09	9.28	3.30E-10
1,851.400	2.83E-09	9.26	3.06E-10
1,862.600	2.64E-09	9.31	2.83E-10
1,864.400	2.47E-09	9.32	2.65E-10
<b>Band Exposure Quotient:</b>			<b>8.92E-09</b>

**Site:** THE HAMPTON JUNIOR SCHOOL  
**Location:** UPPER HALL  
**NGR:** TQ 1323 6986 **Taken from GPS**  
**Start Time:** 27 September 2005 12:46:06  
**Officer:** BW

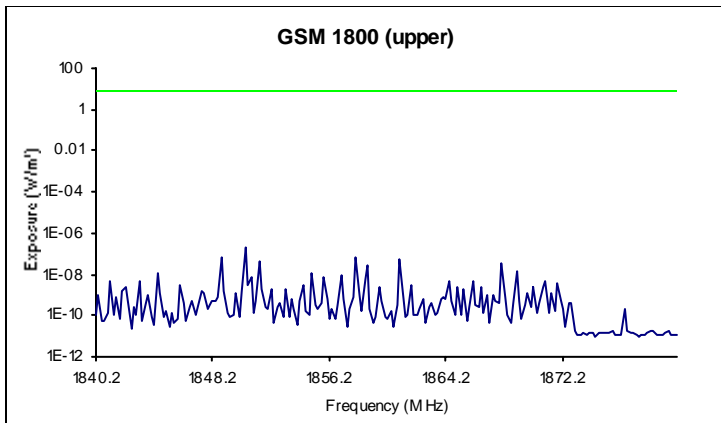
**Receiver:**  
 Manufacturer: ROHDE&SCHWARZ  
 Model: EB200  
 Serial Number: 837.752/028  
**Antenna:**  
 Manufacturer: Rohde & Schwarz  
 Model: HE200  
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
953.800	4.65E-05	4.77	9.76E-06
952.800	4.54E-05	4.76	9.52E-06
937.600	7.61E-06	4.69	1.62E-06
954.800	2.28E-06	4.77	4.79E-07
926.600	2.14E-06	4.63	4.62E-07
950.800	1.11E-06	4.75	2.33E-07
953.000	4.65E-07	4.76	9.75E-08
952.600	4.14E-07	4.76	8.68E-08
935.400	3.98E-07	4.68	8.50E-08
953.600	2.80E-07	4.77	5.88E-08
<b>Band Exposure Quotient:</b>			<b>2.27E-05</b>



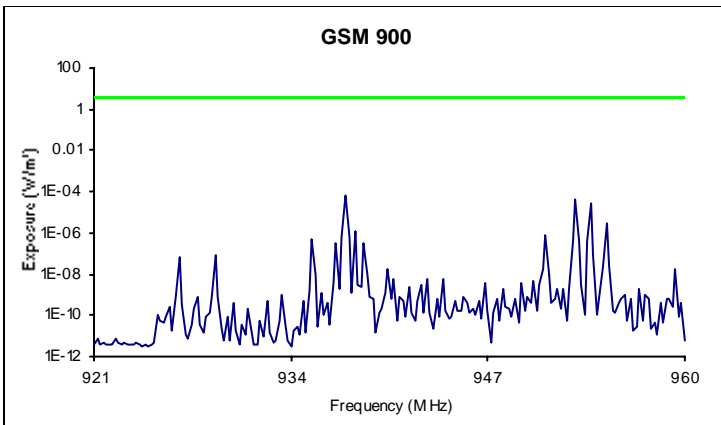
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,832.000	1.51E-06	9.16	1.64E-07
1,821.400	8.51E-07	9.11	9.35E-08
1,819.800	7.06E-07	9.10	7.76E-08
1,834.800	6.46E-07	9.17	7.04E-08
1,829.200	4.96E-07	9.15	5.43E-08
1,836.400	2.83E-07	9.18	3.08E-08
1,827.400	6.68E-08	9.14	7.31E-09
1,828.400	6.54E-08	9.14	7.15E-09
1,822.200	5.38E-08	9.11	5.90E-09
1,821.600	1.02E-08	9.11	1.12E-09
<b>Band Exposure Quotient:</b>			<b>5.27E-07</b>



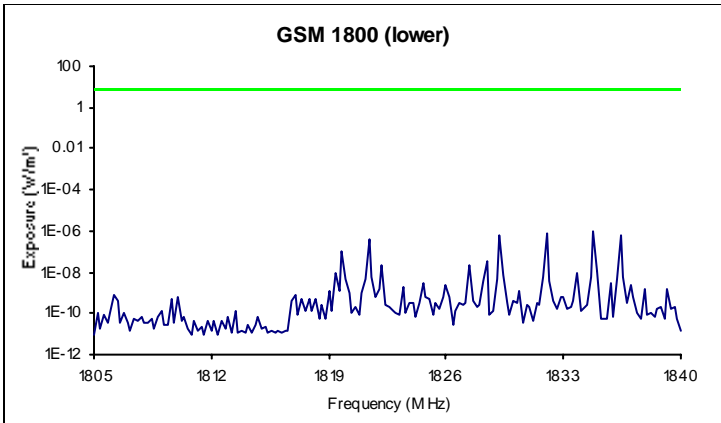
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,850.400	1.87E-07	9.25	2.02E-08
1,858.000	6.72E-08	9.29	7.24E-09
1,848.800	6.62E-08	9.24	7.16E-09
1,861.000	5.62E-08	9.30	6.04E-09
1,851.400	4.19E-08	9.26	4.53E-09
1,868.000	3.20E-08	9.34	3.42E-09
1,858.800	3.08E-08	9.29	3.31E-09
1,869.000	1.57E-08	9.35	1.68E-09
1,844.400	1.06E-08	9.22	1.15E-09
1,855.000	1.06E-08	9.28	1.14E-09
<b>Band Exposure Quotient:</b>			<b>7.06E-08</b>

**Site:** THE HAMPTON JUNIOR SCHOOL  
**Location:** FOOD TECHNOLOGY ROOM  
**NGR:** TQ 1325 6987 **Taken from GPS**  
**Start Time:** 27 September 2005 13:05:27  
**Officer:** BW

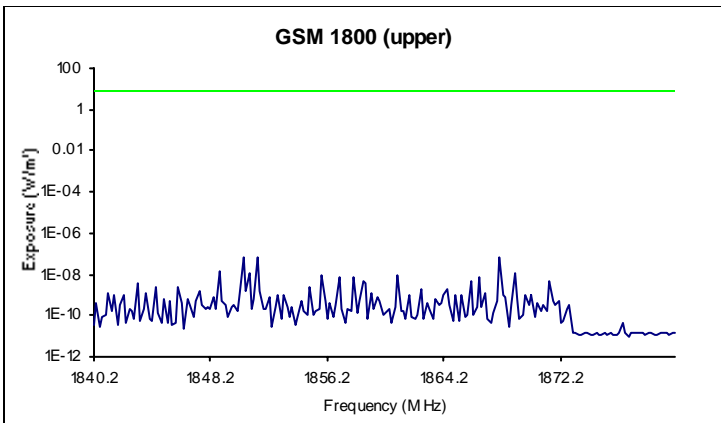
**Receiver:**  
 Manufacturer: ROHDE&SCHWARZ  
 Model: EB200  
 Serial Number: 837.752/028  
**Antenna:**  
 Manufacturer: Rohde & Schwarz  
 Model: HE200  
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
937.600	7.11E-05	4.69	1.52E-05
952.800	4.43E-05	4.76	9.31E-06
953.800	2.87E-05	4.77	6.02E-06
954.800	2.81E-06	4.77	5.89E-07
938.200	1.29E-06	4.69	2.76E-07
950.800	7.50E-07	4.75	1.58E-07
937.800	6.79E-07	4.69	1.45E-07
937.400	6.78E-07	4.69	1.45E-07
935.400	4.78E-07	4.68	1.02E-07
953.600	4.44E-07	4.77	9.32E-08
<b>Band Exposure Quotient:</b>			<b>3.24E-05</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,834.800	9.12E-07	9.17	9.94E-08
1,832.000	7.38E-07	9.16	8.06E-08
1,829.200	5.97E-07	9.15	6.53E-08
1,836.400	5.77E-07	9.18	6.29E-08
1,821.400	4.37E-07	9.11	4.79E-08
1,819.800	1.09E-07	9.10	1.20E-08
1,828.400	3.35E-08	9.14	3.67E-09
1,822.200	2.46E-08	9.11	2.70E-09
1,827.400	2.21E-08	9.14	2.42E-09
1,835.000	1.02E-08	9.18	1.12E-09
<b>Band Exposure Quotient:</b>			<b>3.91E-07</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,850.400	6.79E-08	9.25	7.34E-09
1,868.000	6.53E-08	9.34	6.99E-09
1,851.400	6.35E-08	9.26	6.86E-09
1,848.800	1.45E-08	9.24	1.57E-09
1,850.800	1.08E-08	9.25	1.16E-09
1,869.000	1.04E-08	9.35	1.11E-09
1,861.000	9.99E-09	9.30	1.07E-09
1,855.800	8.43E-09	9.28	9.09E-10
1,857.000	7.36E-09	9.29	7.92E-10
1,858.000	7.20E-09	9.29	7.75E-10
<b>Band Exposure Quotient:</b>			<b>3.81E-08</b>

## 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

<i>Frequency</i>	<i>ICNIRP limit</i>
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