

# ICNIRP Measurement Report

This report presents the results of measurements of electromagnetic field emission levels in the vicinity of mobile base stations. Results are presented as percentages of the power density reference levels for general public exposure in the 1998 edition of the Guidelines published by the International Commission on Non-Ionizing Radiation Protection (ICNIRP)<sup>1</sup>, with figures provided for individual frequency bands used for base station (downlink) transmissions as well as an overall figure for all other frequency bands between 30 MHz to 6 GHz. The total percentage equals the sum of all individual percentages.

The power density reference levels in the ICNIRP Guidelines are the root mean square (rms) values averaged over six minutes. In this report, we have measured the average E-field strength over a six-minute period in each measurement location.

We have applied a measurement threshold of 3dB above the system noise floor<sup>2</sup> of the measurement equipment, below which any E-field strength levels measured are deemed not sufficiently above the system noise floor to be valid. In the results tables below, measurement results are shown to a precision of four decimal places. Results which are not sufficiently above the system noise floor to record as a valid measurement are shown as a dash (-). Results which are too small to register to four decimal places are shown as 0.0000%.

<b>Date of Survey:</b>	23/02/2026	<b>Time Survey completed:</b>	14:18
<b>Survey address:</b>	Gretton NN17		

Measurement equipment		Serial number	Calibration Date
<b>Meter</b>	Keysight Fieldfox N9915A Spectrum Analyser	MY56072591	11/12/2025
<b>Probe</b>	Agos Aria-6000 Antenna	AGOS-6000-1023	08/07/2025
<b>Cabling</b>	1.7m cable	1188	08/07/2025

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<sup>1</sup> <https://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf>

<sup>2</sup> The noise floor of the measurement equipment is the level of background noise that is present before detecting any external signals. In other words, it indicates the absolute minimum level of detectable signals.

## Broadcast bands covered by this report

Frequency Band	Frequency Range	Technology*
	87.5-108 MHz	FM Radio
	174-230 MHz	DAB
	470-694 MHz	Digital TV

## Mobile bands covered by this report

Frequency Band	Frequency Range	Technology*
700 MHz	738-788 MHz	4G, 5G
800 MHz	791-821 MHz	4G
900 MHz	925-960 MHz	2G, 3G, 4G
1400 MHz	1452-1492 MHz	4G (Supplementary downlink)
1800 MHz	1805-1880 MHz	2G, 4G
1900 MHz	1900-1920 MHz	4G
2100 MHz	2110-2170 MHz	3G, 4G
2300 MHz	2350-2390 MHz	4G
2600 MHz TDD	2570-2620 MHz	4G
2600 MHz FDD	2620-2690 MHz	4G
3.4 GHz	3410-3680 MHz	5G, 4G
3.8 GHz	3680-4200 MHz	Various
Others**		

\* This is an indication of the type of technologies typically deployed in these bands; not all frequency bands and technologies may be in use at all locations. \*\* All other frequencies between 30 MHz and 6 GHz.

## Survey locations

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The survey was conducted within the area shown in the map below. Measurements were taken at five locations and are presented in the following pages of this report.



**Location 1**

<b>Measurement time:</b>	<b>13:30</b>
<b>Frequency band</b>	<b>Percentage of the ICNIRP reference levels for general public exposure</b>
87.5-108 MHz	0.01426
174-230 MHz	0.01592
470-694 MHz	0.01253
700 MHz	0.00244
800 MHz	0.00960
900 MHz	0.01272
1400 MHz	0.00065
1800 MHz	0.00811
1900 MHz	0.00031
2100 MHz	0.00096
2300 MHz	0.00064
2600 MHz TDD	0.00055
2600 MHz FDD	0.00023
3.4 GHz	0.00256
3.8 GHz	0.00596
Others	0.20086
<b>Total</b>	<b>0.28830</b>

## Location 2

Measurement time:	13:41
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01414
174-230 MHz	0.01591
470-694 MHz	0.01255
700 MHz	0.00216
800 MHz	0.00545
900 MHz	0.00793
1400 MHz	0.00065
1800 MHz	0.00145
1900 MHz	0.00031
2100 MHz	0.00086
2300 MHz	0.00064
2600 MHz TDD	0.00055
2600 MHz FDD	0.00023
3.4 GHz	0.00257
3.8 GHz	0.00599
Others	0.20121
<b>Total</b>	<b>0.27261</b>

### Location 3

Measurement time:	13:51
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01393
174-230 MHz	0.01566
470-694 MHz	0.01247
700 MHz	0.00845
800 MHz	0.04506
900 MHz	0.01142
1400 MHz	0.00065
1800 MHz	0.01195
1900 MHz	0.00031
2100 MHz	0.00126
2300 MHz	0.00063
2600 MHz TDD	0.00054
2600 MHz FDD	0.00023
3.4 GHz	0.00254
3.8 GHz	0.00594
Others	0.20047
<b>Total</b>	<b>0.33150</b>

#### Location 4

Measurement time:	14:02
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01383
174-230 MHz	0.01536
470-694 MHz	0.01220
700 MHz	0.00218
800 MHz	0.01172
900 MHz	0.00957
1400 MHz	0.00063
1800 MHz	0.00136
1900 MHz	0.00031
2100 MHz	0.00086
2300 MHz	0.00062
2600 MHz TDD	0.00053
2600 MHz FDD	0.00022
3.4 GHz	0.00247
3.8 GHz	0.00579
Others	0.19603
<b>Total</b>	<b>0.27370</b>

#### Location 5

Measurement time:	14:12
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01379
174-230 MHz	0.01541
470-694 MHz	0.01219
700 MHz	0.00184
800 MHz	0.00366
900 MHz	0.00937
1400 MHz	0.00063
1800 MHz	0.00409
1900 MHz	0.00031
2100 MHz	0.00089
2300 MHz	0.00062
2600 MHz TDD	0.00053
2600 MHz FDD	0.00022
3.4 GHz	0.00246
3.8 GHz	0.00575
Others	0.19466
<b>Total</b>	<b>0.26642</b>

*Disclaimer: The results detailed in this report apply only to the tests made at the reported time, using the test equipment detailed. They do not indicate that on another date an identical set of results would be achieved, due to changes in local environmental conditions or other factors which may or may not have an effect on the measurement results obtained at that future time.*