

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)¹, 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 floor² 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%.

Date of Survey:	12/08/2025	Time Survey completed:	10:49
Survey address:	Glasgow G73		

Measurement equipment		Serial number	Calibration Date
Meter	Keysight Fieldfox N9915A Spectrum Analyser	MY57271744	12/02/2025
Probe	Agos Aria-6000 Antenna	1089	31/12/2023
Cabling	1.7m cable	1406	14/05/2025

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

² 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

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

Measurement time:	10:06
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01366
174-230 MHz	0.01143
470-694 MHz	0.01018
700 MHz	0.00139
800 MHz	0.00514
900 MHz	0.00388
1400 MHz	0.00050
1800 MHz	0.00071
1900 MHz	0.00022
2100 MHz	0.00999
2300 MHz	0.00065
2600 MHz TDD	0.00036
2600 MHz FDD	0.00012
3.4 GHz	0.00130
3.8 GHz	0.00314
Others	0.13416
Total	0.19683

Location 2

Measurement time:	10:14
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01237
174-230 MHz	0.01211
470-694 MHz	0.01063
700 MHz	0.00144
800 MHz	0.00207
900 MHz	0.00215
1400 MHz	0.00052
1800 MHz	0.00070
1900 MHz	0.00023
2100 MHz	0.00292
2300 MHz	0.00057
2600 MHz TDD	0.00039
2600 MHz FDD	0.00013
3.4 GHz	0.00142
3.8 GHz	0.00339
Others	0.14183
Total	0.19288

Location 3

Measurement time:	10:25
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01288
174-230 MHz	0.01267
470-694 MHz	0.01103
700 MHz	0.00166
800 MHz	0.00982
900 MHz	0.02496
1400 MHz	0.00055
1800 MHz	0.00073
1900 MHz	0.00025
2100 MHz	0.00298
2300 MHz	0.00145
2600 MHz TDD	0.00041
2600 MHz FDD	0.00014
3.4 GHz	0.00152
3.8 GHz	0.00372
Others	0.14933
Total	0.23410

Location 4

Measurement time:	10:34
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01472
174-230 MHz	0.01314
470-694 MHz	0.01139
700 MHz	0.00161
800 MHz	0.03279
900 MHz	0.08168
1400 MHz	0.00056
1800 MHz	0.00075
1900 MHz	0.00026
2100 MHz	0.00341
2300 MHz	0.00064
2600 MHz TDD	0.00042
2600 MHz FDD	0.00014
3.4 GHz	0.00158
3.8 GHz	0.00379
Others	0.15604
Total	0.32292

Location 5

Measurement time:	10:43
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01403
174-230 MHz	0.01332
470-694 MHz	0.01161
700 MHz	0.00159
800 MHz	0.00570
900 MHz	0.00838
1400 MHz	0.00058
1800 MHz	0.00077
1900 MHz	0.00027
2100 MHz	0.00347
2300 MHz	0.00073
2600 MHz TDD	0.00043
2600 MHz FDD	0.00015
3.4 GHz	0.00162
3.8 GHz	0.00393
Others	0.15938
Total	0.22594

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.