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 floor[2] 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:	12/06/2026	**Time Survey completed:**	16:12
Survey address:	Market Deeping PE6		

Measurement equipment		Serial number	Calibration Date
Meter	Keysight Fieldfox N9915A Spectrum Analyser	MY56072591	11/12/2025
Probe	Agos Aria-6000 Antenna	ARIA-6000-1023	08/07/2025
Cabling	1.7m cable	1188	02/02/2026

[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:	15:14
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.02250
174-230 MHz	0.02506
470-694 MHz	0.01908
700 MHz	0.00768
800 MHz	0.02850
900 MHz	0.04042
1400 MHz	0.00102
1800 MHz	0.00142
1900 MHz	0.00050
2100 MHz	0.00215
2300 MHz	0.00258
2600 MHz TDD	0.00087
2600 MHz FDD	0.00039
3.4 GHz	0.00440
3.8 GHz	0.01025
Others	0.32597
Total	**0.49279**

Location 2

Measurement time:	15:30
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.02104
174-230 MHz	0.02370
470-694 MHz	0.01817
700 MHz	0.00360
800 MHz	0.00619
900 MHz	0.00782
1400 MHz	0.00096
1800 MHz	0.00134
1900 MHz	0.00047
2100 MHz	0.00280
2300 MHz	0.00122
2600 MHz TDD	0.00083
2600 MHz FDD	0.00036
3.4 GHz	0.00412
3.8 GHz	0.00956
Others	0.30665
Total	**0.40884**

Location 3

Measurement time:	15:43
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01996
174-230 MHz	0.02222
470-694 MHz	0.01715
700 MHz	0.00272
800 MHz	0.00277
900 MHz	0.00316
1400 MHz	0.00091
1800 MHz	0.00127
1900 MHz	0.00044
2100 MHz	0.00133
2300 MHz	0.00096
2600 MHz TDD	0.00078
2600 MHz FDD	0.00034
3.4 GHz	0.00383
3.8 GHz	0.00890
Others	0.28682
Total	**0.37354**

Location 4

Measurement time:	15:54
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01929
174-230 MHz	0.02155
470-694 MHz	0.01661
700 MHz	0.00378
800 MHz	0.00527
900 MHz	0.00375
1400 MHz	0.00088
1800 MHz	0.00122
1900 MHz	0.00042
2100 MHz	0.00375
2300 MHz	0.00192
2600 MHz TDD	0.00075
2600 MHz FDD	0.00033
3.4 GHz	0.00368
3.8 GHz	0.00858
Others	0.27836
Total	**0.37013**

Location 5

Measurement time:	16:06
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01920
174-230 MHz	0.02131
470-694 MHz	0.01648
700 MHz	0.00697
800 MHz	0.02371
900 MHz	0.02547
1400 MHz	0.00087
1800 MHz	0.00120
1900 MHz	0.00042
2100 MHz	0.00216
2300 MHz	0.00192
2600 MHz TDD	0.00074
2600 MHz FDD	0.00032
3.4 GHz	0.00364
3.8 GHz	0.00843
Others	0.27541
Total	**0.40824**

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.