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:	23/09/2026	**Time Survey completed:**	12:51
Survey address:	Cromer NR27		

Measurement equipment		Serial number	Calibration Date
Meter	Keysight Fieldfox N9915A Spectrum Analyser	MY56072591	11/12/2025
Probe	Agos Aria-6000 Antenna	AGOS-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:	12:11
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01580
174-230 MHz	0.01782
470-694 MHz	0.01388
700 MHz	0.00228
800 MHz	0.00330
900 MHz	0.00100
1400 MHz	0.00073
1800 MHz	0.00300
1900 MHz	0.00035
2100 MHz	0.00142
2300 MHz	0.00070
2600 MHz TDD	0.00061
2600 MHz FDD	0.00026
3.4 GHz	0.00292
3.8 GHz	0.00680
Others	0.22553
Total	**0.29638**

Location 2

Measurement time:	12:19
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01613
174-230 MHz	0.01827
470-694 MHz	0.01415
700 MHz	0.00248
800 MHz	0.00376
900 MHz	0.00103
1400 MHz	0.00074
1800 MHz	0.00655
1900 MHz	0.00036
2100 MHz	0.00110
2300 MHz	0.00073
2600 MHz TDD	0.00063
2600 MHz FDD	0.00027
3.4 GHz	0.00300
3.8 GHz	0.00698
Others	0.23088
Total	**0.30705**

Location 3

Measurement time:	12:27
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01646
174-230 MHz	0.01849
470-694 MHz	0.01436
700 MHz	0.00212
800 MHz	0.00207
900 MHz	0.00105
1400 MHz	0.00075
1800 MHz	0.00168
1900 MHz	0.00036
2100 MHz	0.00103
2300 MHz	0.00074
2600 MHz TDD	0.00064
2600 MHz FDD	0.00027
3.4 GHz	0.00305
3.8 GHz	0.00709
Others	0.23421
Total	**0.30436**

Location 4

Measurement time:	12:35
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01632
174-230 MHz	0.01840
470-694 MHz	0.01434
700 MHz	0.00209
800 MHz	0.00177
900 MHz	0.00102
1400 MHz	0.00075
1800 MHz	0.00214
1900 MHz	0.00036
2100 MHz	0.00116
2300 MHz	0.00074
2600 MHz TDD	0.00063
2600 MHz FDD	0.00027
3.4 GHz	0.00305
3.8 GHz	0.00710
Others	0.23418
Total	**0.30432**

Location 5

Measurement time:	12:45
Frequency band	**Percentage of the ICNIRP reference levels for general public exposure**
87.5-108 MHz	0.01649
174-230 MHz	0.01838
470-694 MHz	0.01431
700 MHz	0.00331
800 MHz	0.00442
900 MHz	0.00103
1400 MHz	0.00075
1800 MHz	0.00271
1900 MHz	0.00036
2100 MHz	0.00113
2300 MHz	0.00074
2600 MHz TDD	0.00063
2600 MHz FDD	0.00027
3.4 GHz	0.00305
3.8 GHz	0.00712
Others	0.23449
Total	**0.30918**

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.