

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:	09/03/2026	Time Survey completed:	13:53
Survey address:	Hunstanton PE36		

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	08/07/2025

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:	12:53
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01268
174-230 MHz	0.01421
470-694 MHz	0.01139
700 MHz	0.00175
800 MHz	0.04346
900 MHz	0.00521
1400 MHz	0.00059
1800 MHz	0.00574
1900 MHz	0.00028
2100 MHz	0.01350
2300 MHz	0.00057
2600 MHz TDD	0.00049
2600 MHz FDD	0.00020
3.4 GHz	0.00225
3.8 GHz	0.00525
Others	0.18008
Total	0.29765

Location 2

Measurement time:	13:08
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01335
174-230 MHz	0.01507
470-694 MHz	0.01194
700 MHz	0.00178
800 MHz	0.10178
900 MHz	0.08433
1400 MHz	0.00062
1800 MHz	0.00189
1900 MHz	0.00030
2100 MHz	0.00418
2300 MHz	0.00060
2600 MHz TDD	0.00052
2600 MHz FDD	0.00022
3.4 GHz	0.00241
3.8 GHz	0.00562
Others	0.19141
Total	0.43603

Location 3

Measurement time:	13:19
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01366
174-230 MHz	0.01529
470-694 MHz	0.01212
700 MHz	0.00198
800 MHz	0.08889
900 MHz	0.05495
1400 MHz	0.00063
1800 MHz	0.00199
1900 MHz	0.00030
2100 MHz	0.00443
2300 MHz	0.00061
2600 MHz TDD	0.00053
2600 MHz FDD	0.00022
3.4 GHz	0.00246
3.8 GHz	0.00575
Others	0.19564
Total	0.39947

Location 4

Measurement time:	13:36
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01422
174-230 MHz	0.01596
470-694 MHz	0.01261
700 MHz	0.00185
800 MHz	0.01984
900 MHz	0.00831
1400 MHz	0.00066
1800 MHz	0.00270
1900 MHz	0.00032
2100 MHz	0.00438
2300 MHz	0.00065
2600 MHz TDD	0.00055
2600 MHz FDD	0.00023
3.4 GHz	0.00260
3.8 GHz	0.00603
Others	0.20232
Total	0.29322

Location 5

Measurement time:	13:47
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01465
174-230 MHz	0.01631
470-694 MHz	0.01291
700 MHz	0.00205
800 MHz	0.04461
900 MHz	0.00489
1400 MHz	0.00067
1800 MHz	0.00696
1900 MHz	0.00032
2100 MHz	0.01353
2300 MHz	0.00066
2600 MHz TDD	0.00057
2600 MHz FDD	0.00024
3.4 GHz	0.00267
3.8 GHz	0.00622
Others	0.20839
Total	0.33567

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.