

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:	01/04/2026	Time Survey completed:	14:19
Survey address:	Walney Island LA14		

Measurement equipment		Serial number	Calibration Date
Meter	Keysight Fieldfox N9915A Spectrum Analyser	US55240265	31/10/2025
Probe	Agos Aria-6000 Antenna	AGOS-6000-1022	08/07/2025
Cabling	1.7m cable	1405	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

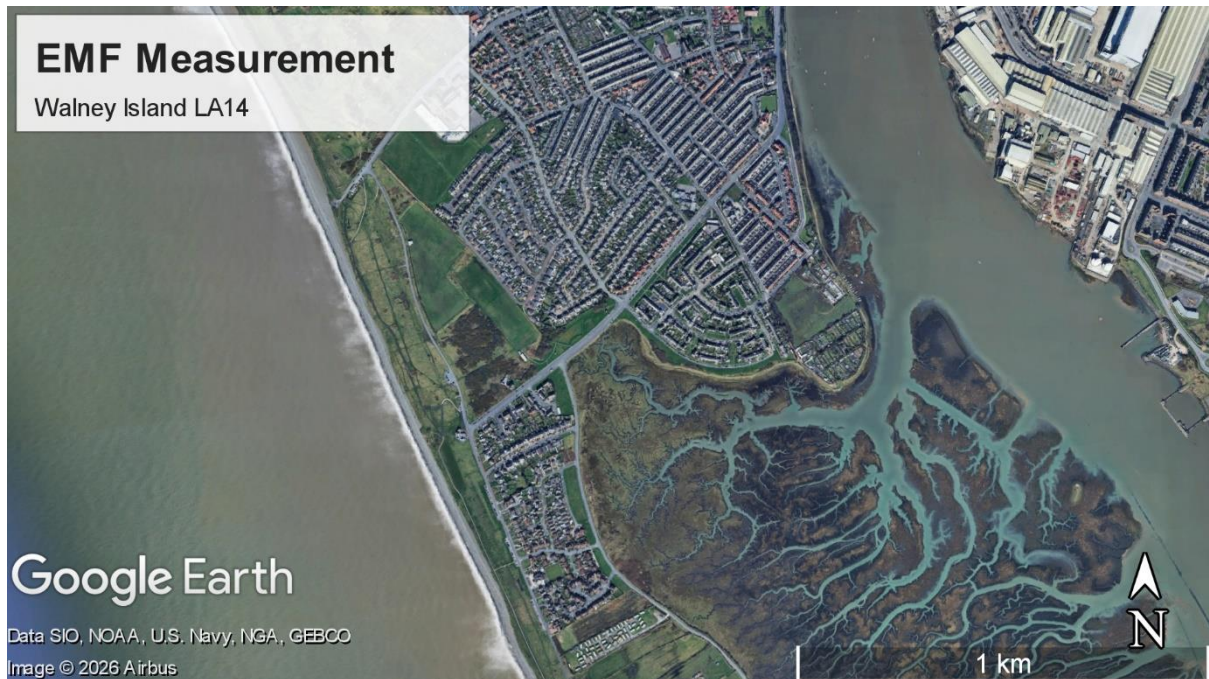
Mobile bands covered by this report

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 six locations and are presented in the following pages of this report.



Location 1

Measurement time:	13:25
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.00940
174-230 MHz	0.00859
470-694 MHz	0.00672
700 MHz	0.00322
800 MHz	0.03331
900 MHz	0.07386
1400 MHz	0.00030
1800 MHz	0.00036
1900 MHz	0.00012
2100 MHz	0.04513
2300 MHz	0.00029
2600 MHz TDD	0.00031
2600 MHz FDD	0.00053
3.4 GHz	0.00122
3.8 GHz	0.00279
Others	0.11511
Total	0.30126

Location 2

Measurement time:	13:38
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.00925
174-230 MHz	0.00855
470-694 MHz	0.00663
700 MHz	0.00282
800 MHz	0.05760
900 MHz	0.07442
1400 MHz	0.00029
1800 MHz	0.00034
1900 MHz	0.00012
2100 MHz	0.05625
2300 MHz	0.00028
2600 MHz TDD	0.00032
2600 MHz FDD	0.00091
3.4 GHz	0.00122
3.8 GHz	0.00270
Others	0.11319
Total	0.33490

Location 3

Measurement time:	13:46
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.00925
174-230 MHz	0.00856
470-694 MHz	0.00670
700 MHz	0.00188
800 MHz	0.01367
900 MHz	0.03642
1400 MHz	0.00029
1800 MHz	0.00034
1900 MHz	0.00012
2100 MHz	0.00489
2300 MHz	0.00028
2600 MHz TDD	0.00032
2600 MHz FDD	0.00092
3.4 GHz	0.00136
3.8 GHz	0.00272
Others	0.11288
Total	0.20060

Location 4

Measurement time:	13:55
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.01334
174-230 MHz	0.00883
470-694 MHz	0.00694
700 MHz	0.00118
800 MHz	0.00305
900 MHz	0.00884
1400 MHz	0.00029
1800 MHz	0.00036
1900 MHz	0.00012
2100 MHz	0.00439
2300 MHz	0.00029
2600 MHz TDD	0.00030
2600 MHz FDD	0.00040
3.4 GHz	0.00123
3.8 GHz	0.00277
Others	0.23172
Total	0.28405

Location 5

Measurement time:	14:03
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.00933
174-230 MHz	0.00865
470-694 MHz	0.00676
700 MHz	0.00096
800 MHz	0.00113
900 MHz	0.00278
1400 MHz	0.00030
1800 MHz	0.00044
1900 MHz	0.00012
2100 MHz	0.00122
2300 MHz	0.00029
2600 MHz TDD	0.00030
2600 MHz FDD	0.00033
3.4 GHz	0.00122
3.8 GHz	0.00276
Others	0.11406
Total	0.15064

Location 6

Measurement time:	14:13
Frequency band	Percentage of the ICNIRP reference levels for general public exposure
87.5-108 MHz	0.00936
174-230 MHz	0.00863
470-694 MHz	0.00673
700 MHz	0.00522
800 MHz	0.04019
900 MHz	0.07110
1400 MHz	0.00030
1800 MHz	0.00036
1900 MHz	0.00012
2100 MHz	0.07644
2300 MHz	0.00029
2600 MHz TDD	0.00034
2600 MHz FDD	0.00142
3.4 GHz	0.00127
3.8 GHz	0.00277
Others	0.11724
Total	0.34178

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.