



UNITED KINGDOM

FREQUENCY ALLOCATION TABLE

2010

Issue No. 16

Including
The International Telecommunication Union Table of Frequency
Allocations contained in the current Radio Regulations

Issued by the National Frequency Planning Group on behalf
of the Cabinet Official Committee on UK Spectrum Strategy

PREFACE

GENERAL NOTES

1. Introduction.

- 1.1 The UK FAT details the uses to which various frequency bands are put in the UK (referred to as 'allocations') and which bodies are responsible for planning and managing them, including making frequency assignments to individual users or installations at particular locations. It also shows the internationally agreed spectrum allocations of the International Telecommunication Union.
- 1.2. Radio use in the UK is required to be authorised by Ofcom under the Wireless Telegraphy Act 2006 and needs to be carefully planned to avoid harmful interference. Crown bodies such as government departments do not legally require authorisation from Ofcom but the working arrangements set out in the Table have been put in place to coordinate their use with that authorised by Ofcom.

2. Contents

- 2.1 The attached Table comprises:-
- a. On the even numbered pages (left hand side), the United Kingdom Frequency Allocation Table¹ approved by the National Frequency Planning Group.
 - b. On the odd numbered pages (right hand side), the International Telecommunication Union Table of Frequency Allocations¹ and its footnotes related to United Kingdom use contained in the current ITU Radio Regulations.
 - c. The following Annexes –
 - Annex A Frequency bands designated for Industrial, Scientific and Medical use
 - Annex B Short Range Devices
 - Annex C Frequency sharing arrangements between civil land mobile and military services in the band 410-450 MHz
 - Annex D The protection of frequencies for Radio Astronomy
 - Annex E Frequencies for the operation of Sonobuoys
 - Annex F Frequencies for the Amateur and Amateur Satellite services
 - Annex G Frequencies for distress and safety, search and rescue and emergencies
 - Annex H Spectrum available for use in Programme Making and Special Events
 - Annex I Spectrum available for Emergency Services use
 - Annex J Spectrum available for Power Line Carrier systems

3. Amendments

- 3.1 The International Table is amended whenever necessary to accord with any changes to the Radio Regulations made by World Radiocommunication Conferences of the International Telecommunication Union.

¹ Throughout the following notes the International Telecommunication Union Table of Frequency Allocations is described as the "International Table" and the United Kingdom Frequency Allocation Table is described as the UK Table.

3.2 The UK Table is amended as a result of National Frequency Planning Group approval of Departmental proposals, recommendations made by the Group's Drafting Panel, the application of European frequency decisions, or of changes in Ofcom licensing policy.

4. Basic Provisions

4.1 Direct references have been made within the UK Table to those footnotes to the International Table which apply without qualification to the United Kingdom radio services or frequency bands concerned. Additional references have been made in footnotes to the UK Table to those International footnotes which have limited application in the United Kingdom. All remaining International footnotes not specifically mentioned in the Table or in footnotes thereto do not therefore apply in the United Kingdom.

4.2 The UK Table thus qualifies the provisions of the International Table; it makes additional provisions for domestic frequency requirements which have no place in the International Table; and it provides the framework within which frequency assignments are to be made for all services. The provisions of the UK Table shall therefore be applied to all radio services, civil and military, transmitting or receiving within the territory or territorial waters² of the United Kingdom of Great Britain and Northern Ireland including the Channel Islands and the Isle of Man.

4.3 Where the provisions of the International Table and the UK Table differ, those of the latter will apply.

4.4 The frequency requirements of radio services or equipment, except for those mentioned in footnote UK9 or covered in section 5 below, to be developed or operated other than in accordance with the UK Table are first to be submitted for the approval of the National Frequency Planning Group.

5. Uses of spectrum

5.1. This document does not represent all uses of spectrum that are authorised in the UK or that may be authorised in future. The conditions that are attached to the use of different frequency bands are set out in licences issued by Ofcom, and/or in regulations made by Ofcom, where such use falls to be authorised under the Wireless Telegraphy Act. Ofcom may, having consulted as it considers appropriate, vary existing conditions of use, and may issue new authorisations, under powers granted to it by Parliament, and in accordance with the requirements of European and UK law. This document is therefore not binding on Ofcom but Ofcom will take due note of its contents and consult where necessary during the discharge of its statutory duties.

5.2 Readers should be aware of the following in particular:

- a) Authorisations issued by Ofcom may be varied to make their conditions less restrictive as to the use that may be made of spectrum. In reaching decisions on such variations, Ofcom will consider its relevant statutory duties and consult as necessary where these impinge on or materially impact the Frequency Allocation Tables.
- b) In certain frequency bands, the UK is committed to the terms of an EC Directive or Decision which may specify usage in a way that does not correlate precisely with ITU-defined service definitions (eg an EC Decision may require spectrum to be made available for "Electronic Communications Services" – an allocation to fixed and mobile services is likely to cover many applications but not necessarily all). Where specific European Decisions apply, a specific footnote referencing the relevant Decision generally appears.

² This is to include the areas designated as part of the United Kingdom Extended Economic Zone.

- c) Many authorisations issued by Ofcom specify minimum technical (and if relevant operational) constraints but are otherwise on a technology- and service-neutral basis. The frequency bands to which such authorisations relate are identified, where possible, by a specific footnote.
- d) Where statutory regulations are in place to exempt radio systems from the need for a licence (licence exempt), these regulations take precedence over the detail shown in this Table.

6. Recognised Spectrum Access (RSA).

- 6.1. **What is RSA?** RSA is a spectrum instrument that was introduced by the Communications Act 2003 to complement wireless telegraphy licences. The relevant provisions are now consolidated in the Wireless Telegraphy Act 2006. Grant of RSA has two consequences. First, it formalises recognition of the use and places Ofcom under an express duty to take account of it in a similar way as a licensed application. Second, a grant of RSA may be traded by the holder and converted into a WT licence in accordance with regulations made by Ofcom.
- 6.2. **Who may be granted RSA?** RSA may be granted in relation to any service that does not require a licence from Ofcom in frequency bands that have been specified in regulations made by Ofcom. For example, Government departments, being Crown bodies, are not bound by the Wireless Telegraphy Act and so are not licensed by Ofcom; and passive services such as radio astronomy (see Annex D), are automatically exempted from licensing as they cannot cause interference to others.
- 6.3. **Where may further details be found?** The frequency bands in which RSA may be granted are set out in the UK Plan for Frequency Authorisation; grants of tradable RSA are listed in the Wireless Telegraphy Register; and trades involving RSA are recorded in the Transfer Notification Register. All of these are maintained and published by Ofcom.

EDITORIAL NOTES

7. CONVENTIONS

7.1 The following conventions are employed in the Tables -

- a Where in both the International Table and the UK Table a frequency band is allocated to more than one radio service, the names of such services are listed in the following order:-
 - (i) PRIMARY services - printed in capitals;
 - (ii) SECONDARY services - printed in lower case.
- b In addition to the above, where a frequency band is allocated to two or more services of equal status, the names of such services are listed in alphabetical order according to the French language. This order of listing does not confer any precedence upon radio services which are of equal status.

8. FOOTNOTES

8.1 Where footnotes are employed the following rules apply -

- a Where a footnote is printed on the same line as the name of a radio service the footnote applies only to that service.
- b Where a footnote is printed within the lower part of a frequency band and not on the same line as a radio service, the footnote applies to that band or some part thereof.
- c Footnotes in the International Table are identified in and below that Table by a number, eg '5.12'. Where references are made in or below the UK Table to these International footnotes, they are similarly identified.
- d Footnotes to the UK Table are always identified by the prefix 'UK' - eg 'UK34'. To avoid unnecessary repetition, numbers UK1 to UK13 have been reserved for footnotes that are employed repeatedly; those footnotes are listed on page 5.

9. ABBREVIATIONS

9.1. A list of abbreviations used in the UK Table is on page 8.

FOOTNOTES TO THE UK TABLE

The generic footnotes appearing in the UK FAT are listed below. Footnotes UK3, UK4 and UK5 have been given individual decimal indicators within the FAT because the comments tend to vary with the band within which they appear.

- UK1 Except by special agreement having the approval of the NFPG this frequency band, or the allocation to this radio service, is reserved exclusively for **CIVIL** use in accordance with 'Allocation to Services' (See amplifying Note A below).
- UK2 Except by special agreement having the approval of the NFPG this frequency band, or the allocation to this radio service, is reserved exclusively for **MILITARY** use in accordance with the 'Allocation to Services' (See amplifying Note A).
- UK3 Responsibility for assigning frequencies in this band in accordance with the Allocation to Services rests with Ofcom and the Scottish Government for emergency services (See Amplifying Note C and Annex I).
- UK4 Responsibility for assigning frequencies **in this band** in accordance with the Allocation to Services is as follows: (See amplifying Note B below).
- UK5 Responsibility for assigning frequencies **to this service** in accordance with the Allocation to Services is as follows: (See amplifying Notes A and B below).
- UK6 Industrial, scientific and medical (ISM) applications are designated for use in this band. The conditions of use are contained at Annex A.
- UK7 The conditions of use by the Amateur and/or Amateur-Satellite services in this band are contained in Annex F.
- UK8 Not used.
- UK9 The Ministry of Defence requires at times to activate stations of the land mobile service, employing low power for voice communications, in the range 1.5-30.0 MHz. Temporary assignments will be negotiated directly with Ofcom and the Departments concerned or likely to be affected. **In certain bands however this general but qualified agreement to MILITARY out-of-band usage cannot be permitted. These bands are annotated UK9.**
- UK10 Specific details of frequency bands, observatories and protective measures applicable to the radio astronomy service are contained in Annex D.
- UK11 Specific details of frequency bands available for low power devices exempt from licensing are contained in Annex B.
- UK12 Specific details of frequencies for Distress and Safety, Search and Rescue and Emergencies are contained in Annex G.
- UK13 Specific details of frequency bands available for Power Line Carrier systems are contained in Annex J.

AMPLIFYING NOTES

- A In all frequency bands not allocated exclusively for CIVIL or MILITARY use, and thus not annotated UK1 or UK2, civil and military services to be operated in accordance with the Allocation to Services have equal rights of access to the bands, and where appropriate assignments for such services shall be made by joint planning among the Departments/Agencies concerned. Since this is a general convention applicable to all of these shared bands, this has been done by means of appropriate notes in the UK Table.

- B In all cases where Footnotes UK4 or UK5 are applied in the body of the UK Table, the Departments/Agencies responsible for planning frequency assignments (either for a particular band or for a particular radio service) are named in column 2 of the UK Table, eg:

UK4 71.7 - 72.8 MHz – Ofcom.

UK5 153.5 - 154.0 MHz - MoD (for the mobile service).

Footnotes UK4 and UK5 are not applied against the frequency bands exclusively allocated to the broadcasting service nor against allocations to this service in shared bands. In these cases responsibility for the planning of frequency assignments for the broadcasting service rests with Ofcom.

- C In all cases where Footnote UK3 is applied in the body of the UK Table, responsibility for planning frequency assignments for the emergency services (for a particular band) rests with:

- (i) Ofcom (for England, Wales, Northern Ireland, Isle of Man and the Channel Isles)
- (ii) The Scottish Government, Safer Communities, Scottish Resilience (for Scotland).

Specific details of frequency bands available for use by the Emergency Services are contained in Annex I.

Contact Point.

The UK FAT is produced by Ofcom on behalf of the Cabinet Official Committee on UK Spectrum Strategy. Further information arising from this publication should be addressed to:

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ABBREVIATIONS USED IN THE TABLE

CEPT	European Conference of Postal and Telecommunications Administrations
CLFST	Cambridge Low Frequency Synthesis Telescope
CW	Continuous Wave
dBW	Decibels relative to one Watt
DAP	Directorate of Airspace Policy (of the Civil Aviation Authority)
DDR	Digital Dividend Review
DH	Department of Health
DSC	Digital Selective Calling
EMC	Electro-Magnetic Compatibility
EIRP	Equivalent Isotropically Radiated Power
EPIRB	Emergency Position-Indicating Radiobeacon
ERP	Effective Radiated Power
FM	Frequency Modulation
GCA	Ground Controlled Approach
GMDSS	Global Maritime Distress and Safety System
GPS	Global Positioning System
HMCG	Her Majesty's Coastguard
ITS	Intelligent Transport Systems.
ILS	Instrument Landing System
ISM	Industrial, Scientific and Medical
MCA	Maritime and Coastguard Agency
MDM	Micro-wave Distance Measurement
MERLIN	Multi Element Radio Linked Interferometer Network
MoD	Ministry of Defence
MRN	Maritime Radionavigation
MSI	Maritime Safety Information
NATO	North Atlantic Treaty Organisation
NBDP	Narrow-Band Direct-Printing
NFPG	National Frequency Planning Group
NIB	Non-interference basis
NPIA	National Policing Improvement Agency
OB	Outside Broadcast
Ofcom	Office of Communications
(OR)	Aeronautical Mobile (Off Route) (Military)
(R)	Aeronautical Mobile (Route) (Civil)

PMSE	Programme Making and Special Events
PSSPG	Public Safety Spectrum Policy Group
RARC	Regional Administrative Radio Conference
RNLI	Royal National Lifeboat Institution
RSA	Recognised Spectrum Access (see note 6 above)
SAR	Search and Rescue
SG	Scottish Government
VLBI	Very Long Baseline Interferometry
VOR	VHF Omni directional Range
WARC	World Administrative Radio Conference (up to WARC 1992)
WRC	World Radiocommunication Conference (from WRC 1995 onwards)

UNITED KINGDOM TABLE OF FREQUENCY ALLOCATIONS

Allocation to United Kingdom Services	Comments
Below 9 kHz (not allocated) 5.53, 5.54 UK1, 43	UK43 “SPHERICS” (thunderstorm detection and location) stations are operated in the United Kingdom and overseas on a centre frequency of 9kHz.
9-14 kHz RADIONAVIGATION UK1, 11, 43	
14-19.95 kHz FIXED MARITIME MOBILE 5.57 5.55, 5.56 UK2, 11	
19.95-20.05 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 kHz) UK1, 11	
20.05-59.75 kHz FIXED MARITIME MOBILE 5.57 5.56 UK2, 11, 13	
59.75 – 60.25 kHz STANDARD FREQUENCY AND TIME SIGNAL (60kHz) 5.56 UK1	
60.25-70.0 kHz FIXED MARITIME MOBILE 5.57 5.56 UK2, 11, 13	

INTERNATIONAL TABLE OF FREQUENCY ALLOCATIONS AS DEFINED BY THE I.T.U

Region 1	Region 2	Region 3
Below 9kHz (not allocated) 5.53 5.54		
9 -14 kHz RADIONAVIGATION		
14 - 19.95 kHz FIXED MARITIME MOBILE 5.57 5.55 5.56		
19.95 – 20.05kHz STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)		
20.05 – 70 kHz FIXED MARITIME MOBILE 5.57 5.56 5.58		

Allocation to United Kingdom Services	Comments
70·0-72·0 kHz RADIONAVIGATION 5.60 UK1, 11, 13	
72·0-84·0 kHz FIXED MARITIME MOBILE 5.57 RADIO NAVIGATION 5.60 5.56 UK2, 11, 13	
84·0-86·0 kHz RADIONAVIGATION 5.60 UK1, 11, 13	
86·0-90·0 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.56 UK2, 11, 13	
90·0-110·0 kHz RADIONAVIGATION 5.62 5.64 UK1, 11, 13	

Region 1	Region 2	Region 3
70 - 72 kHz RADIONAVIGATION 5.60	70 - 90 kHz FIXED MARITIME MOBILE 5.57 MARITIME RADIO-NAVIGATION 5.60 Radiolocation 5.61	70 - 72 kHz RADIONAVIGATION 5.57 Fixed Maritime Mobile 5.57 5.59
72 - 84 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60 5.56		72 - 84 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60
84 - 86 kHz RADIONAVIGATION 5.60		84 - 86 kHz RADIONAVIGATION 5.60 Fixed Maritime Mobile 5.57 5.59
86 - 90 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.56		86 - 90 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60
90 - 110 kHz RADIONAVIGATION 5.62 Fixed 5.64		

Allocation to United Kingdom Services	Comments
110·0 – 112·0 kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.64	UK2, 11, 13
112·0-115·0 kHz RADIONAVIGATION 5.60 5.64	UK1, 11, 13
115·0-117·6 kHz RADIONAVIGATION 5.60 Fixed Maritime Mobile 5.64	UK5.1 115·0-117·6 kHz – MoD for the Maritime Mobile service. UK5.1 UK1, 11, 13
117·6-126·0 kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64	UK2, 11, 13
126·0-129·0 kHz RADIONAVIGATION 5.60 5.64	UK1,11, 13
129·0-130·0 kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64	UK1, 11, 13

Region 1	Region 2	Region 3
110 – 112kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.64	110 – 130kHz FIXED MARITIME MOBILE MARITIME RADIO- NAVIGATION 5.60 Radiolocation	110 – 112kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64
112 – 115kHz RADIONAVIGATION 5.60	5.61 5.64	112 – 117.6kHz RADIONAVIGATION 5.60 Fixed Maritime Mobile
115 – 117.6kHz RADIONAVIGATION 5.60 Fixed Maritime Mobile 5.64 5.66		5.64 5.65
117.6 – 126kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64		117.6 – 126kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64
126 – 129kHz RADIONAVIGATION 5.60		126 – 129kHz RADIONAVIGATION 5.60 Fixed Maritime Mobile 5.64 5.65
129 – 130kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64		129 – 130kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64

Allocation to United Kingdom Services	Comments
130.0-135.7 kHz FIXED MARITIME MOBILE 5.64 UK2, 11, 13, 14	UK14 This band may be used for land Mobile vehicle location systems on NIB to maritime services
135.7 – 137.8kHz FIXED MARITIME MOBILE Amateur 5.67A 5.64 UK2, 7, 11, 13, 14	UK14 This band may be used for land Mobile vehicle location systems on NIB to maritime services
135.7-148.5 kHz FIXED MARITIME MOBILE 5.64 UK2, 11, 13, 14	UK14 This band may be used for land Mobile vehicle location systems on NIB to maritime services
148.5-255.0 kHz BROADCASTING UK1, 11, 13, 15	UK15 Radio teleswitching is permitted on a NIB and non-protected basis on BBC broadcasts.
255.0-283.5 kHz BROADCASTING AERONAUTICAL RADIONAVIGATION UK5.2, 212 UK1, 11, 13	UK5.2 225 - 283.5 kHz – CAA/MoD (for the Aeronautical Radionavigation service). UK212 All aeronautical assignments in this band are undertaken by the CAA.
283.5-315 kHz MARITIME RADIONAVIGATION (radio beacons) 5.73 UK16 AERONAUTICAL RADIONAVIGATION (radio beacons) UK5.3, 212 5.74 UK1, 11, 13	UK5.3 285 – 315 kHz – CAA/MoD (for the Aeronautical Radionavigation service) UK16 Maritime DGPS signals may be used by the radiobeacon service on a NIB. UK212 All aeronautical assignments in this band are undertaken by the CAA.

Region 1	Region 2	Region 3
130 – 135.7kHz FIXED MARITIME MOBILE 5.64 5.67	130 – 135.7kHz FIXED MARITIME MOBILE 5.64	130 – 160kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.64
135.7 – 137.8kHz FIXED MARITIME MOBILE Amateur 5.67A 5.64 5.67 5.67B	135.7 – 137.8kHz FIXED MARITIME MOBILE Amateur 5.67A 5.64	135.7 – 137.8kHz FIXED MARITIME MOBILE RADIONAVIGATION Amateur 5.67A 5.64 5.67B
137.8 – 148.5kHz FIXED MARITIME MOBILE 5.64 5.67	137.8 – 160.0kHz FIXED MARITIME MOBILE 5.64	137.8 – 160.0kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.64
148.5 – 255kHz BROADCASTING 5.68 5.69 5.70	160 – 190kHz FIXED	160 – 190kHz FIXED Aeronautical Radionavigation
	190 – 200kHz AERONAUTICAL RADIONAVIGATION	
255 – 283.5kHz BROADCASTING AERONAUTICAL RADIONAVIGATION 5.70 5.71	200 – 275kHz AERONAUTICAL RADIONAVIGATION Aeronautical Mobile	200 – 285kHz AERONAUTICAL RADIONAVIGATION Aeronautical Mobile
	275 – 285kHz AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Maritime Radionavigation (radiobeacons)	
283.5 – 315kHz AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73 5.72 5.74	285 – 315kHz AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73	

Region 1	Region 2	Region 3
315 – 325kHz AERONAUTICAL RADIONAVIGATION Maritime Radionavigation (radiobeacons) 5.73 5.72 5.75	315 – 325kHz MARITIME RADIONAVIGATION (radiobeacons) 5.73 Aeronautical Radionavigation	315 – 325kHz AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73
325 – 405kHz AERONAUTICAL RADIONAVIGATION 5.72	325 – 335kHz AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Maritime Radionavigation (radiobeacons) 335 – 405kHz AERONAUTICAL RADIONAVIGATION Aeronautical Mobile	325 – 405kHz AERONAUTICAL RADIONAVIGATION Aeronautical Mobile
405 – 415kHz RADIONAVIGATION 5.76 5.72	405 – 415kHz RADIONAVIGATION 5.76 Aeronautical Mobile	
415 – 435kHz MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION 5.72	415 – 495kHz MARITIME MOBILE 5.79 5.79A Aeronautical Radionavigation 5.80	
435 – 495kHz MARITIME MOBILE 5.79 5.79A Aeronautical Radionavigation 5.72 5.82	5.77 5.78 5.82	
495 – 505kHz MOBILE 5.82A 5.82B		

Allocation to United Kingdom Services	Comments
<p>505·0-526·5 kHz</p> <p>MARITIME MOBILE 5.79 5.79A 5.84 UK185 AERONAUTICAL RADIONAVIGATION (radio beacons) UK5.6, 212</p> <p>UK2, 11, 12, 13</p>	<p>UK5.6 505·0-526·5 kHz – CAA/MoD (for the Aeronautical Radionavigation service).</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>526·5-1 606·5 kHz</p> <p>BROADCASTING</p> <p>UK1, 11</p>	
<p>1 606·5-1 625·0 kHz</p> <p>FIXED MARITIME MOBILE 5.90 UK185 LAND MOBILE RADIOLOCATION UK19</p> <p>5.92 UK2, 11</p>	<p>UK19 Limited to military systems and existing civil systems.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p>
<p>1 625·0-1 635·0 kHz</p> <p>FIXED RADIOLOCATION</p> <p>UK1, 11, 22</p>	<p>UK22 Cordless telephones may use the band 1632–1792 kHz.</p>
<p>1 635·0-1 800·0 kHz</p> <p>FIXED UK21 LAND MOBILE MARITIME MOBILE 5.90 UK185 RADIOLOCATION UK19</p> <p>5.92, 5.96 UK2, 11, 22</p>	<p>UK19 Limited to military systems and existing civil systems</p> <p>UK21 Fixed links are used by the maritime surveying service on 1785kHz for communications when calibrating Radionavigation systems.</p> <p>UK22 Cordless telephones may use the band 1632–1782 kHz.</p> <p>UK185 Ofcom may licence stations in the Maritime Mobile service in this band.</p>

Region 1	Region 2	Region 3
505 – 526.5kHz MARITIME MOBILE 5.79 5.79A 5.84 AERONAUTICAL RADIONAVIGATION 5.72	505 – 510kHz MARITIME MOBILE 5.79 510 – 525kHz MOBILE 5.79A 5.84 AERONAUTICAL RADIONAVIGATION	505 – 526.5kHz MARITIME MOBILE 5.79 5.79A 5.84 AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Land Mobile
526.5 – 1 606.5kHz BROADCASTING 5.87 5.87A	525 – 535kHz BROADCASTING 5.86 AERONAUTICAL RADIONAVIGATION	526.5 – 535kHz BROADCASTING Mobile 5.88
1 606.5 – 1 625kHz FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92	535 – 1 605kHz BROADCASTING 1 605 – 1 625kHz BROADCASTING 5.89 5.90	535 – 1 606.5kHz BROADCASTING 1 606.5 – 1 800kHz FIXED MOBILE RADIOLOCATION RADIONAVIGATION 5.91
1 625 – 1 635kHz RADIOLOCATION 5.93	1 625 – 1 705kHz FIXED MOBILE BROADCASTING 5.89 Radiolocation 5.90	
1 635 – 1 800kHz FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92 5.96	1 705 – 1 800kHz FIXED MOBILE RADIOLOCATION AERONAUTICAL RADIONAVIGATION	

Allocation to United Kingdom Services	Comments
1 800-1 810 kHz RADIOLOCATION UK2, 11	
1 810-1 850 kHz AMATEUR 5.100 UK7 UK1, 11	
1 850-2 000 kHz FIXED MOBILE except aeronautical mobile RADIOLOCATION Amateur 5.92, 5.96, 5.103 UK185 UK19 UK5.7, 7 UK2, 11	UK5.7 1850–2000 kHz - Ofcom (for the Amateur service). UK19 Limited to military systems and existing civil systems. UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 000-2 025 kHz FIXED MOBILE except aeronautical mobile (R) RADIOLOCATION 5.92, 5.103 UK185 UK19 UK2, 11, 156	UK19 Limited to military systems and existing civil systems UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 025-2 045 kHz FIXED MOBILE except aeronautical mobile (R) Meteorological Aids 5.104 5.92, 5.103 UK185 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 045-2 160 kHz FIXED LAND MOBILE MARITIME MOBILE RADIOLOCATION UK185 UK19 UK2, 11	UK19 Limited to military systems and existing civil systems. UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 160-2 170 kHz FIXED MARITIME MOBILE RADIOLOCATION UK2, 11	

Region 1	Region 2	Region 3
1 800 – 1 810kHz RADIOLOCATION 5.93	1 800 – 1 850kHz AMATEUR	1 800 – 2 000kHz AMATEUR FIXED MOBILE except aeronautical mobile RADIONAVIGATION Radiolocation
1 810 – 1 850kHz AMATEUR 5.98 5.99 5.100 5.101		
1 850 – 2 000kHz FIXED MOBILE except aeronautical mobile 5.92 5.96 5.103	1 850 – 2 000kHz AMATEUR FIXED MOBILE except aeronautical mobile RADIOLOCATION RADIONAVIGATION 5.102	5.97
2 000 – 2 025kHz FIXED MOBILE except aeronautical mobile (R) 5.92 5.103	2 000 – 2 065kHz FIXED MOBILE	
2 025 – 2 045kHz FIXED MOBILE except aeronautical mobile (R) Meteorological Aids 5.104 5.92 5.103		
2 045 – 2 160kHz FIXED MARITIME MOBILE LAND MOBILE 5.92	2 065 – 2 107kHz MARITIME MOBILE 5.105 5.106	
	2 107 – 2 170kHz FIXED MOBILE	
2 160 – 2 170kHz RADIOLOCATION 5.93 5.107		

Allocation to United Kingdom Services	Comments
2 170-2 173.5 kHz MARITIME MOBILE UK1, 11	
2 173.5-2 190.5 kHz MOBILE (distress and calling) 5.108, 5.109, 5.110, 5.111 UK1, 9, 11, 12	
2 190.5-2 194 kHz MARITIME MOBILE UK185 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 194-2 300 kHz FIXED MOBILE except aeronautical mobile (R) RADIOLOCATION 5.92, 5.103 UK185 UK19 UK2, 11	UK19 Limited to military systems and existing civil systems UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 300-2 498 kHz FIXED MOBILE except aeronautical mobile (R) 5.103 UK185 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 498-2 501 kHz STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz) UK1, 9, 11	
2 501-2 502 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research UK1, 9, 11	

Region 1	Region 2	Region 3
2 170 – 2 173.5kHz MARITIME MOBILE		
2 173.5 – 2 190.5kHz MOBILE (distress and calling) 5.108 5.109 5.110 5.111		
2 190.5 – 2 194kHz MARITIME MOBILE		
2 194 – 2 300kHz FIXED MOBILE except aeronautical mobile (R) 5.92 5.103 5.112	2 194 – 2 300kHz FIXED MOBILE 5.112	
2 300 – 2 498kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.103	2 300 – 2 495kHz FIXED MOBILE BROADCASTING 5.113	
2 498 – 2 501kHz STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	2 495 – 2 501kHz STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	
2 501 – 2 502kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research		

Allocation to United Kingdom Services	Comments
2 502-2 625 kHz FIXED MOBILE except aeronautical mobile (R) UK185 RADIOLOCATION 5.92, 5.103 UK2, 11, 12	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 625-2 650 kHz MARITIME MOBILE UK185 RADIOLOCATION 5.92 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 650-2 850 kHz FIXED MOBILE except aeronautical mobile (R) UK185 RADIOLOCATION 5.92, 5.103 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
2 850-3 025 kHz AERONAUTICAL MOBILE (R) UK5.8 5.111, 5.115 UK1, 9, 11, 12, 23	UK5.8 2850–3025kHz – CAA
3 025-3 155 kHz AERONAUTICAL MOBILE (OR) UK2, 11	
3 155-3 200 kHz FIXED MOBILE except aeronautical Mobile(R) UK185 5.116 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
3 200-3 230 kHz FIXED MOBILE except aeronautical mobile (R) UK185 5.116 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.

Region 1	Region 2	Region 3
2 502 – 2 625kHz FIXED MOBILE except aeronautical mobile (R) 5.92 5.103 5.114	2 502 – 2 505kHz STANDARD FREQUENCY AND TIME SIGNAL	
2 625 – 2 650kHz MARITIME MOBILE MARITIME RADIONAVIGATION 5.92	2 505 – 2 850kHz FIXED MOBILE	
2 650 – 2 850kHz FIXED MOBILE except aeronautical mobile (R) 5.92 5.103		
2 850 – 3 025kHz AERONAUTICAL MOBILE (R) 5.111 5.115		
3 025 – 3 155kHz AERONAUTICAL MOBILE (OR)		
3 155 – 3 200kHz FIXED MOBILE except aeronautical mobile (R) 5.116 5.117		
3 200 – 3 230kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.116		

Region 1	Region 2	Region 3
3 230 – 3 400kHz FIXED MOBILE except aeronautical mobile BROADCASTING 5.113 5.116 5.118		
3 400 – 3 500kHz AERONAUTICAL MOBILE (R)		
3 500 – 3 800kHz AMATEUR FIXED MOBILE except aeronautical mobile 5.92	3 500 – 3 750kHz AMATEUR 5.119	3 500 – 3 900kHz AMATEUR FIXED MOBILE
3 800 – 3 900kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	3 750 – 4 000kHz AMATEUR FIXED MOBILE except aeronautical mobile (R) 5.122 5.125	
3 900 – 3 950kHz AERONAUTICAL MOBILE (OR) 5.123		3 900 – 3 950kHz AERONAUTICAL MOBILE BROADCASTING
3 950 – 4 000kHz FIXED BROADCASTING		3 950 – 4 000kHz FIXED BROADCASTING 5.126
4 000 – 4 063kHz FIXED MARITIME MOBILE 5.127 5.126		
4 063 – 4 438kHz MARITIME MOBILE 5.79A 5.109 5.110 5.130 5.131 5.132 5.128 5.129		

Allocation to United Kingdom Services	Comments
4 438-4 650 kHz FIXED MOBILE except aeronautical mobile (R) UK2, 11	
4 650-4 700 kHz AERONAUTICAL MOBILE (R) UK1, 4.4, 9, 11	UK4.4 4650–4700 kHz – CAA
4 700-4 750 kHz AERONAUTICAL MOBILE (OR) UK2, 11	
4 750-4 850 kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE UK2, 11	
4 850-4 995 kHz FIXED LAND MOBILE UK2, 11	
4 995-5 003 kHz STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz) UK1, 9, 11	
5 003-5 005 kHz STANDARD FREQUENCY AND TIME SIGNAL Space research UK1, 9, 11	
5 005-5 060 kHz FIXED UK2, 11	
5 060-5 250 kHz FIXED Mobile except aeronautical mobile UK2, 11	

Region 1	Region 2	Region 3
4 438 – 4 650kHz FIXED MOBILE except aeronautical mobile (R)		4 438 – 4 650kHz FIXED MOBILE except aeronautical mobile
4 650 – 4 700kHz AERONAUTICAL MOBILE (R)		
4 700 – 4 750kHz AERONAUTICAL MOBILE (OR)		
4 750 – 4 850kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING 5.113	4 750 – 4 850kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113	4 750 – 4 850kHz FIXED BROADCASTING 5.113 Land Mobile
4 850 – 4 995kHz FIXED LAND MOBILE BROADCASTING 5.113		
4 995 – 5 003kHz STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)		
5 003 – 5 005kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research		
5 005 – 5 060kHz FIXED BROADCASTING 5.113		
5 060 – 5 250kHz FIXED Mobile except aeronautical mobile 5.133		

Allocation to United Kingdom Services	Comments
5 250-5 450 kHz FIXED Mobile except aeronautical mobile UK2, 11, 24	UK24 Maritime patrol aircraft may use 5442.5 kHz subject to 4.4.
5 450-5 480 kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE UK2, 11	
5 480-5 680 kHz AERONAUTICAL MOBILE (R) 5.111, 5.115 UK1, 4.5, 9, 11, 12	UK 4.5 5480–5680 kHz - CAA
5 680-5 730 kHz AERONAUTICAL MOBILE (OR) 5.111, 5.115 UK2, 11, 12	
5 730-5 900 kHz FIXED LAND MOBILE UK2, 11	
5 900-5950 kHz BROADCASTING 5.134 5.136 UK1, 11	
5 950-6200 kHz BROADCASTING UK1, 11	
6 200-6 525 kHz MARITIME MOBILE 5.109, 5.110, 5.130, 5.132 UK185 5.137 UK2, 11, 12	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
6 525-6 685 kHz AERONAUTICAL MOBILE (R) UK1, 4.6, 9, 11	UK4.6 6525–6685 kHz - CAA
6 685-6 765 kHz AERONAUTICAL MOBILE (OR) UK2, 11	

Region 1	Region 2	Region 3
5 250 – 5 450kHz FIXED MOBILE except aeronautical mobile		
5 450 – 5 480kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	5 450 – 5 480kHz AERONAUTICAL MOBILE (R)	5 450 – 5 480kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE
5 480 – 5 680kHz AERONAUTICAL MOBILE (R) 5.111 5.115		
5 680 – 5 730kHz AERONAUTICAL MOBILE (OR) 5.111 5.115		
5 730 – 5 900kHz FIXED LAND MOBILE	5 730 – 5 900kHz FIXED MOBILE except aeronautical mobile (R)	5 730 – 5 900kHz FIXED Mobile except aeronautical mobile (R)
5 900 – 5 950kHz BROADCASTING 5.134 5.136		
5 950 – 6 200kHz BROADCASTING		
6 200 – 6 525kHz MARITIME MOBILE 5.109 5.110 5.130 5.132 5.137		
6 525 – 6 685kHz AERONAUTICAL MOBILE (R)		
6 685 – 6 765kHz AERONAUTICAL MOBILE (OR)		

Allocation to United Kingdom Services	Comments
6 765-7 000 kHz FIXED MOBILE except aeronautical mobile (R) 5.138 5.138A UK2, 6, 11	
7 000-7 100 kHz AMATEUR 5.120 UK7 AMATEUR-SATELLITE UK7 UK1, 11	
7 100-7 200 kHz AMATEUR UK7 5.141C UK1, 11, 12	
7 200-7 300 kHz BROADCASTING UK1, 11	
7 300-7 350 kHz BROADCASTING 5.134 5.143, 5.143B UK1, 11	
7 350-7 450 kHz BROADCASTING FIXED Land Mobile UK 5.11 5.143B UK1, 11	UK5.11 MoD – for the Land Mobile service.
7 450-8 100 kHz FIXED Land Mobile UK2, 11, 25	UK25 HF broadcasts may operate on specific frequencies in this band.
8 100-8 195 kHz FIXED MARITIME MOBILE UK185 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
8 195-8 815 kHz MARITIME MOBILE 5.109, 5.110, 5.132, 5.145 UK185 5.111 UK2, 11, 12	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.

Region 1	Region 2	Region 3
6 765 – 7 000kHz FIXED MOBILE except aeronautical mobile (R) 5.138 5.138A 5.139		
7 000 – 7 100kHz AMATEUR AMATEUR-SATELLITE 5.140 5.141 5.141A		
7 100 – 7 200kHz AMATEUR 5.141A 5.141B 5.141C 5.142		
7 200 – 7 300kHz BROADCASTING	7 200 – 7 300kHz AMATEUR 5.142	7 200 – 7 300kHz BROADCASTING
7 300 – 7 400kHz BROADCASTING 5.134 5.143 5.143A 5.143B 5.143C 5.143D		
7 400 – 7 450kHz BROADCASTING 5.143B 5.143C	7 400 – 7 450kHz FIXED MOBILE except aeronautical mobile (R)	7 400 – 7 450kHz BROADCASTING 5.143A 5.143C
7 450 – 8 100kHz FIXED MOBILE except aeronautical mobile (R). 5.143E 5.144		
8 100 – 8 195kHz FIXED MARITIME MOBILE		
8 195 – 8 815kHz MARITIME MOBILE 5.109 5.110 5.132 5.145 5.111		

Allocation to United Kingdom Services	Comments
8 815-8 965 kHz AERONAUTICAL MOBILE (R) UK1, 4.7, 9, 11	UK4.7 8815-8965 kHz – CAA
8 965-9 040 kHz AERONAUTICAL MOBILE (OR) UK2, 11	
9 040-9 400 kHz FIXED UK2, 11	
9 400-9 500 kHz BROADCASTING 5.134 5.146 UK1, 11	
9 500-9 900 kHz BROADCASTING 5.147 UK1, 11	
9 900-9 995 kHz FIXED UK2, 11	
9 995-10 003 kHz STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) 5.111 UK1, 9, 11, 12	
10 003-10 005 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111 UK1, 11, 12	
10 005-10 100 kHz AERONAUTICAL MOBILE (R) 5.111 UK 1, 4.8, 9, 11	UK4.8 10 005-10 100 kHz – CAA
10 100-10 150 kHz FIXED Amateur 5.120 UK5.12, 7 UK2, 11, 12	UK5.12 10 100-10 150 kHz – Ofcom (for the Amateur service)

Region 1	Region 2	Region 3
8 815 – 8 965kHz AERONAUTICAL MOBILE (R)		
8 965 – 9 040kHz AERONAUTICAL MOBILE (OR)		
9 040 – 9 400kHz FIXED		
9 400 – 9 500kHz BROADCASTING 5.134 5.146		
9 500 – 9 900kHz BROADCASTING 5.147		
9 900 – 9 995kHz FIXED		
9 995 – 10 003kHz STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) 5.111		
10 003 – 10 005kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111		
10 005 – 10 100kHz AERONAUTICAL MOBILE (R) 5.111		
10 100 – 10 150kHz FIXED Amateur		

Allocation to United Kingdom Services	Comments
10 150-11 175 kHz FIXED Mobile except Aeronautical Mobile (R) UK2, 11	
11 175-11 275 kHz AERONAUTICAL MOBILE (OR) UK2, 11	
11 275-11 400 kHz AERONAUTICAL MOBILE (R) UK1, 4.9, 9, 11	UK4.9 11 275-11 400 kHz – CAA
11 400-11 600 kHz FIXED UK2, 11	
11 600-11 650 kHz BROADCASTING 5.134 5.146 UK1, 11	
11 650-12 050 kHz BROADCASTING 5.147 UK1, 11	
12 050-12 230 kHz BROADCASTING 5.134 5.146 UK1, 11	
12 230-13 200 kHz MARITIME MOBILE 5.109, 5.110, 5.132, 5.145 UK185 UK2, 11, 12	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
13 200-13 260 kHz AERONAUTICAL MOBILE (OR) UK2, 11	

Region 1	Region 2	Region 3
10 150 – 11 175kHz FIXED Mobile except aeronautical mobile (R)		
11 175 – 11 275kHz AERONAUTICAL MOBILE (OR)		
11 275 – 11 400kHz AERONAUTICAL MOBILE (R)		
11 400 – 11 600kHz FIXED		
11 600 – 11 650kHz BROADCASTING 5.134 5.146		
11 650 – 12 050kHz BROADCASTING 5.147		
12 050 – 12 100kHz BROADCASTING 5.134 5.146		
12 100 – 12 230kHz FIXED		
12 230 – 13 200kHz MARITIME MOBILE 5.109 5.110 5.132 5.145		
13 200 – 13 260kHz AERONAUTICAL MOBILE (OR)		

Allocation to United Kingdom Services	Comments
13 260-13 360 kHz AERONAUTICAL MOBILE (R) UK1, 4.10, 9, 11	UK4.10 13 260-13 360 kHz– CAA.
13 360-13 410 kHz FIXED RADIO ASTRONOMY 5.149 UK2, 10, 11	
13 410-13 570 kHz FIXED Mobile except Aeronautical Mobile (R) 5.150 UK2, 6, 11	
13 570-13 600 kHz BROADCASTING 5.134 5.151 UK1, 11	
13 600-13 800 kHz BROADCASTING UK1, 11	
13 800-13 870 kHz BROADCASTING 5.134 5.151 UK1, 11	
13 870-14 000 kHz FIXED Mobile except aeronautical mobile (R) UK2, 11	
14 000-14 250 kHz AMATEUR AMATEUR-SATELLITE UK1, 7, 11, 12	
14 250-14 350 kHz AMATEUR 5.152 UK1, 7, 11, 12	
14 350-14 990 kHz FIXED Mobile except aeronautical mobile (R) UK2, 11	

Region 1	Region 2	Region 3
13 260 – 13 360kHz AERONAUTICAL MOBILE (R)		
13 360 – 13 410kHz FIXED RADIO ASTRONOMY 5.149		
13 410 – 13 570kHz FIXED Mobile except aeronautical mobile (R) 5.150		
13 570 – 13 600kHz BROADCASTING 5.134 5.151		
13 600 – 13 800kHz BROADCASTING		
13 800 – 13 870kHz BROADCASTING 5.134 5.151		
13 870 – 14 000kHz FIXED Mobile except aeronautical mobile (R)		
14 000 – 14 250kHz AMATEUR AMATEUR-SATELLITE		
14 250 – 14 350kHz AMATEUR 5.152		
14 350 – 14 990kHz FIXED Mobile except aeronautical mobile (R)		

Allocation to United Kingdom Services	Comments
14 990-15 005 kHz STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) 5.111 UK1, 9, 11, 12	
15 005-15 010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research UK1, 9, 11	
15 010-15 100 kHz AERONAUTICAL MOBILE (OR) UK2, 11	
15 100-15 600 kHz BROADCASTING UK1, 11	
15 600-15 800 kHz BROADCASTING 5.134 5.146 UK1, 11	
15 800-16 360 kHz FIXED UK2, 11	
16 360-17 410 kHz MARITIME MOBILE, 5.109, 5.110, 5.132, 5.145 UK185 UK2, 11, 12	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
17 410-17 480 kHz FIXED UK2, 11	
17 480-17 550 kHz BROADCASTING 5.134 5.146 UK1, 11	
17 550-17 900 kHz BROADCASTING UK1, 11	

Region 1	Region 2	Region 3
14 990 – 15 005kHz STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) 5.111		
15 005 – 15 010kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research		
15 010 – 15 100kHz AERONAUTICAL MOBILE (OR)		
15 100 – 15 600kHz BROADCASTING		
15 600 – 15 800kHz BROADCASTING 5.134 5.146		
15 800 – 16 360kHz FIXED 5.153		
16 360 – 17 410kHz MARITIME MOBILE 5.109 5.110 5.132 5.145		
17 410 – 17 480kHz FIXED		
17 480 – 17 550kHz BROADCASTING 5.134 5.146		
17 550 – 17 900kHz BROADCASTING		

Allocation to United Kingdom Services	Comments
17 900-17 970 kHz AERONAUTICAL MOBILE (R) UK1, 4.11, 9, 11	UK4.11 17 900-17 970 kHz – CAA.
17 970-18 030 kHz AERONAUTICAL MOBILE (OR) UK 2, 11	
18 030-18 052 kHz FIXED UK2, 11	
18 052-18 068 kHz FIXED Space Research UK2, 11	
18 068-18 168 kHz AMATEUR 5.120 UK7 AMATEUR-SATELLITE UK7 UK1, 11, 12	
18 168-18 780 kHz FIXED Mobile except aeronautical mobile UK2, 11	
18 780-18 900 kHz MARITIME MOBILE UK185 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
18 900-19 020 kHz BROADCASTING 5.134 5.146 UK1, 11	
19 020-19 680 kHz FIXED UK2, 11	
19 680-19 800 kHz MARITIME MOBILE 5.132 UK185 UK2, 11, 12	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.

Region 1	Region 2	Region 3
17 900 – 17 970kHz AERONAUTICAL MOBILE (R)		
17 970 – 18 030kHz AERONAUTICAL MOBILE (OR)		
18 030 – 18 052kHz FIXED		
18 052 – 18 068kHz FIXED Space Research		
18 068 – 18 168kHz AMATEUR AMATEUR-SATELLITE 5.154		
18 168 – 18 780kHz FIXED Mobile except aeronautical mobile		
18 780 – 18 900kHz MARITIME MOBILE		
18 900 – 19 020kHz BROADCASTING 5.134 5.146		
19 020 – 19 680kHz FIXED		
19 680 – 19 800kHz MARITIME MOBILE 5.132		

Allocation to United Kingdom Services	Comments
19 800-19 990 kHz FIXED UK2, 11	
19 990-19 995 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111 UK1, 9, 11, 12	
19 995-20 010 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 5.111 UK1, 9, 11	
20 010-21 000 kHz FIXED Mobile UK2, 11	
21 000-21 450 kHz AMATEUR AMATEUR-SATELLITE UK1, 7, 11, 12	
21 450-21 850 kHz BROADCASTING UK1, 11	
21 850-21 870 kHz FIXED UK2, 11	
21 870-21 924 kHz FIXED 5.155B UK1, 11	
21 924-22 000 kHz AERONAUTICAL MOBILE (R) UK1, 4.13, 9, 11	UK4.13 21-924-22-000 kHz – CAA.
22 000-22 855 kHz MARITIME MOBILE 5.132 UK185 UK2, 11, 12	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.

Region 1	Region 2	Region 3
19 800 – 19 990kHz FIXED		
19 990 – 19 995kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111		
19 995 – 20 010kHz STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 5.111		
20 010 – 21 000kHz FIXED Mobile		
21 000 – 21 450kHz AMATEUR AMATEUR-SATELLITE		
21 450 – 21 850kHz BROADCASTING		
21 850 – 21 870kHz FIXED 5.155A 5.155		
21 870 – 21 924kHz FIXED 5.155B		
21 924 – 22 000kHz AERONAUTICAL MOBILE (R)		
22 000 – 22 855kHz MARITIME MOBILE 5.132 5.156		

Allocation to United Kingdom Services	Comments
22 855-23 000 kHz FIXED UK2, 11	
23 000-23 200 kHz FIXED Mobile except Aeronautical mobile (R) UK2, 11	
23 200-23 350 kHz FIXED 5.156A AERONAUTICAL MOBILE (OR) UK2, 11	
23 350-24 000 kHz FIXED MOBILE except aeronautical mobile 5.157 UK2, 11	
24 000-24 890 kHz FIXED LAND MOBILE UK2, 11	
24 890-24 990 kHz AMATEUR AMATEUR-SATELLITE UK1, 7, 11, 12	
24 990-25 005 kHz STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz) UK1, 9, 11	
25 005-25 010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research UK1, 9, 11	
25 010-25 070 kHz MOBILE except aeronautical mobile UK2, 11	

Region 1	Region 2	Region 3
22 855 – 23 000kHz FIXED 5.156		
23 000 – 23 200kHz FIXED Mobile except aeronautical mobile (R) 5.156		
23 200 – 23 350kHz FIXED 5.156A AERONAUTICAL MOBILE (OR)		
23 350 – 24 000kHz FIXED MOBILE except aeronautical mobile 5.157		
24 000 – 24 890kHz FIXED LAND MOBILE		
24 890 – 24 990kHz AMATEUR AMATEUR-SATELLITE		
24 990 – 25 005kHz STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)		
25 005 – 25 010kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research		
25 010 – 25 070kHz FIXED MOBILE except aeronautical mobile		

Allocation to United Kingdom Services	Comments
25 070-25 210 kHz MARITIME MOBILE UK185 UK2, 11	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
25 210-25 550 kHz FIXED MOBILE except aeronautical mobile UK2, 11	
25 550-25 670 kHz RADIO ASTRONOMY 5.149 UK10 UK1, 11	
25 670-26 100 kHz BROADCASTING UK1, 11	
26 100-26 175 kHz MARITIME MOBILE 5.132 UK185 UK2, 11, 12	UK185 Ofcom may licence stations in the Maritime Mobile service in this band.
26 175-27 500 kHz FIXED MOBILE except aeronautical mobile 5.150 UK28 UK2, 6, 11, 29	UK28 Citizens' Band radio is authorised between 26 960-27 410 kHz and 27 600–28 000 kHz but excluding 26 995 kHz, 27 045 kHz, 27 095 kHz, 27 145 kHz and 27 195 kHz. (CEPT PR 27.). UK29 The band 26 225-26 9325 kHz and the frequencies 31·725 MHz, 31·750 MHz and 31·775 MHz (all within ± 12·5 kHz) may be used by one-way paging.
27·5-28·0 MHz METEOROLOGICAL AIDS (sondes) MOBILE FIXED UK 28 UK2, 11	UK28 Citizens' Band radio is authorised between 26 960-27 410 kHz and 27 600–28 000 kHz but excluding 26 995 kHz, 27 045 kHz, 27 095 kHz, 27 145 kHz and 27 195 kHz. (CEPT PR 27.).
28·0-29·7 MHz AMATEUR AMATEUR-SATELLITE UK1, 7, 11	
29·7-30·005 MHz FIXED MOBILE UK 2, 11	

Region 1	Region 2	Region 3
25 070 – 25 210kHz MARITIME MOBILE		
25 210 – 25 550kHz FIXED MOBILE except aeronautical mobile		
25 550 – 25 670kHz RADIO ASTRONOMY 5.149		
25 670 – 26 100kHz BROADCASTING		
26 100 – 26 175kHz MARITIME MOBILE 5.132		
26 175 – 27 500kHz FIXED MOBILE except aeronautical mobile 5.150		
27.5 – 28MHz METEOROLOGICAL AIDS FIXED MOBILE		
28 – 29.7MHz AMATEUR AMATEUR-SATELLITE		
29.7 – 30.005MHz FIXED MOBILE		

Allocation to United Kingdom Services	Comments
30·005-30·01 MHz SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH UK2, 11	
30·01-37·5 MHz FIXED MOBILE UK2, 11, 29, 30, 31, 167	UK29 The band 26 225-26 9325 kHz and the frequencies 31·725 MHz, 31·750 MHz and 31·775 MHz (all within $\pm 12\cdot5$ kHz) may be used by one-way paging. UK30 34·5-34·995 MHz and 35·225-35·5 MHz may be used for paging, alarms for the elderly and infirm, and maritime data buoys. 34·945-35·305 MHz may be used for model aircraft control systems. UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.
37·5-38·25 MHz MOBILE FIXED Radio Astronomy 5·149 UK10 UK2, 11	
38·25-39·986 MHz MOBILE UK2, 11, 31, 167, 169	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.
39·986-40·020 MHz MOBILE Space Research UK2, 11, 31, 167	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.
40·02-40·98 MHz MOBILE UK2, 6, 11, 31, 167	UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.

Region 1	Region 2	Region 3
30·005 – 30·01MHz SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH		
30·01 – 37·5MHz FIXED MOBILE		
37·5 – 38·25MHz FIXED MOBILE Radio Astronomy 5.149		
38·25 – 39·986MHz FIXED MOBILE		
39·986 – 40·02MHz FIXED MOBILE Space Research		
40·02 – 40·98MHz FIXED MOBILE 5.150		

Allocation to United Kingdom Services	Comments
<p>40.98-41.015 MHz</p> <p>MOBILE Space Research</p> <p>UK2, 11, 31</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p>
<p>40.015-44.00 MHz</p> <p>MOBILE</p> <p>UK2, 6, 11, 31</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p> <p>UK6 ISM applications are designated for use within this band. Their conditions of use are contained at Annex A.</p>
<p>44.0-46.4 MHz</p> <p>MOBILE</p> <p>5.162A</p> <p>UK2, 11, 31, 176</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p>
<p>46.4-47.0 MHz</p> <p>MOBILE</p> <p>5.162A</p> <p>UK2, 11, 31, 169, 176</p>	<p>UK31 The allocation is mainly for military use, any civil requirements being co-ordinated with the MoD.</p> <p>UK169 46.5–47.0 MHz – Ofcom (for meteor burst communications).</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p>

Region 1	Region 2	Region 3
40.98 – 41.015MHz FIXED MOBILE Space Research 5.160 5.161		
41.015 – 44MHz FIXED MOBILE 5.160 5.161		
44 – 47MHz FIXED MOBILE 5.162 5.162A		

Allocation to United Kingdom Services	Comments
<p>47.0-50.0 MHz</p> <p>LAND MOBILE</p> <p>5.162A, 5.164</p> <p>UK1, 11, 27, 176</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p>
<p>50.0-51.0 MHz</p> <p>AMATEUR</p> <p>5.162A, 5.164</p> <p>UK1, 7, 32, 171, 176</p>	<p>UK32 Video transmissions using leaky cable techniques are permitted on 50.5 MHz for railway track to train.</p> <p>UK171 50.5–51.0 MHz - Ocean Surface Current Radars. Short-term use on a no protection, non-interference basis.</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p>
<p>51.0-52.0 MHz</p> <p>LAND MOBILE Amateur</p> <p>5.162A, 5.164</p> <p>UK 5.13 UK5.13, 7 UK2, 176</p>	<p>UK5.13 51.0-52.0 MHz – MoD (for the Land Mobile service); 51.0-52.0 MHz – Ofcom (for the Amateur service).</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p>
<p>52.0-68.0 MHz</p> <p>LAND MOBILE</p> <p>5.162A, 5.164</p> <p>UK1, 27, 176, 186</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK176 The MoD (for the Met Office) may operate Wind Profiler radars within the band 46-68 MHz provided each assignment has been co-ordinated with other users of this band.</p> <p>UK186 The band 55-68 MHz has been identified for award by Ofcom by auction – see General Note 4.2, c).</p>

Region 1	Region 2	Region 3
47 – 68MHz BROADCASTING 5.162A 5.163 5.164 5.165 5.169 5.171	47 – 50MHz FIXED MOBILE	47 – 50MHz FIXED MOBILE BROADCASTING 5.162A
	50 – 54MHz AMATEUR 5.162A 5.166 5.167 5.168 5.170	
	54 – 68MHz BROADCASTING Fixed Mobile 5.172	54 – 68MHz FIXED MOBILE BROADCASTING 5.162A

Allocation to United Kingdom Services	Comments
<p>68.0-70.5 MHz</p> <p>MOBILE except aeronautical mobile Amateur</p> <p style="text-align: right;">UK4.14, 7, 27</p>	<p>UK4.14 68.0-70.0 MHz – Ofcom (for the Mobile except aeronautical mobile service); 70.0-70.5 MHz – MoD; 70.0-70.5 MHz – Ofcom (for the Amateur service)</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>70.5-71.5 MHz</p> <p>LAND MOBILE</p> <p style="text-align: right;">UK1, 3.1</p>	
<p>71.5-72.8 MHz</p> <p>LAND MOBILE</p> <p style="text-align: right;">UK1</p>	
<p>72.8-74.8 MHz</p> <p>LAND MOBILE</p> <p>5.149</p> <p style="text-align: right;">UK31, 33 UK4.15, 27</p>	<p>UK4.15 72.8-74.68125 MHz – MoD; 74.68125-74.71875 MHz – Ofcom; 74.71875-74.8 MHz – MoD.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK31 The allocation is mainly for military, any civil requirements being co-ordinated by the MoD.</p> <p>UK33 The use of the MoD parts of this band by military helicopters is permitted.</p>
<p>74.8-75.2 MHz</p> <p>AERONAUTICAL RADIONAVIGATION</p> <p>5.180</p> <p style="text-align: right;">UK212 UK4.16</p>	<p>UK4.16 74.8-75.2 MHz – MoD/CAA.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>

Region 1	Region 2	Region 3
<p>68 – 74.8MHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.149, 5.174, 5.175, 5.177, 5.179</p>	<p>68 – 72MHz</p> <p>BROADCASTING Fixed Mobile</p> <p>5.173</p>	<p>68 – 74.8</p> <p>FIXED MOBILE</p>
	<p>72 – 73MHz</p> <p>FIXED MOBILE</p>	
	<p>73 – 74.6MHz</p> <p>RADIO ASTRONOMY</p> <p>5.178</p>	
	<p>74.6 – 74.8MHz</p> <p>FIXED MOBILE</p>	
<p>74.8 – 75.2MHz</p> <p>AERONAUTICAL RADIONAVIGATION</p> <p>5.180 5.181</p>		

Allocation to United Kingdom Services	Comments
<p>75.2-76.7 MHz</p> <p>LAND MOBILE</p> <p style="text-align: right;">UK2, 27, 31</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK31 The allocation is mainly for military, any civil requirements being co-ordinated by the MoD.</p>
<p>76.7-78.0 MHz</p> <p>FIXED MOBILE</p> <p style="text-align: right;">UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>78.0-80.0 MHz</p> <p>LAND MOBILE</p> <p style="text-align: right;">UK31 UK2, 27, 33</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK31 The allocation is mainly for military, any civil requirements being co-ordinated by the MoD.</p> <p>UK33 The use of this band by military helicopters is permitted.</p>

Region 1	Region 2	Region 3
75.2 – 87.5MHz FIXED MOBILE except aeronautical mobile 5.175 5.179 5.184 5.187	75.2 – 75.4MHz FIXED MOBILE 5.179	
	75.4 – 76MHz FIXED MOBILE	75.4 – 87MHz FIXED MOBILE 5.182 5.183 5.188
	76 – 88MHz BROADCASTING Fixed Mobile 5.185	

Allocation to United Kingdom Services	Comments
<p>80.0-87.5 MHz</p> <p>FIXED LAND MOBILE Radio Astronomy</p> <p style="text-align: right;">UK10</p> <p style="text-align: right;">UK3.2, 4.17, 6, 12, 27</p>	<p>UK4.17 83.5-85.0 MHz – MoD 81.5-83.5 MHz and 85.0-87.5 MHz – Ofcom.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>87.5-108.0 MHz</p> <p>BROADCASTING</p> <p style="text-align: right;">UK36</p> <p style="text-align: right;">UK1, 11</p>	<p>UK36 FM sound broadcasting.</p>
<p>108.0 – 117.975 MHz</p> <p>AERONAUTICAL RADIONAVIGATION</p> <p>5.197A</p> <p style="text-align: right;">UK212</p> <p style="text-align: right;">UK4.18, 38</p>	<p>UK4.18 108.0-117.975 MHz – CAA/MoD.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>117.975-137.0 MHz</p> <p>AERONAUTICAL MOBILE (R)</p> <p>5.111, 5.200</p> <p style="text-align: right;">UK212</p> <p style="text-align: right;">UK1, 4.19, 12, 39, 40, 172, 177</p>	<p>UK4.19 117.975–137.0 MHz – CAA</p> <p>UK172 132.65 MHz ±12.5kHz is used by HMCG for communication with SAR helicopters.</p> <p>UK177 Emergency services mobile ground stations and certain airport operations vehicles may operate in this band within the confines of authorised aerodromes subject to approval by CAA.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>137.0-137.025 MHz</p> <p>METEOROLOGICAL SATELLITE (space to Earth) MOBILE MOBILE SATELLITE 5.208A, 5.208B, 5.209 Space operation (space to Earth) Space Research (space to Earth)</p> <p>5.208</p> <p style="text-align: right;">UK2, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p>

Region 1	Region 2	Region 3
Cont.... 75.2 – 87.5MHz FIXED MOBILE except aeronautical mobile 5.175 5.179 5.184 5.187	Cont.... 76 – 88MHz BROADCASTING Fixed Mobile 5.185	Cont.... 75.4 – 87MHz FIXED MOBILE 5.182 5.183 5.188
87.5 – 100MHz BROADCASTING 5.190	88 – 100MHz BROADCASTING	87 – 100MHz FIXED MOBILE BROADCASTING
100 – 108MHz BROADCASTING 5.192 5.194		
108 – 117.975MHz AERONAUTICAL RADIONAVIGATION 5.197 5.197A		
117.975 – 137MHz AERONAUTICAL MOBILE (R) 5.111 5.200 5.201, 5.202,		
137 – 137.025MHz SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208		

Allocation to United Kingdom Services	Comments
<p>137.025-137.175 MHz</p> <p>METEOROLOGICAL SATELLITE (space to Earth) MOBILE Mobile Satellite (space to Earth) 5.208A, 5.208B, 5.209 Space operation (space to Earth) Space Research (space to Earth)</p> <p>5.208 UK2, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p>
<p>137.175-137.825 MHz</p> <p>METEOROLOGICAL SATELLITE (space to Earth) MOBILE MOBILE SATELLITE 5.208A, 5.208B, 5.209 Space Operation (space to Earth) Space Research (space to Earth)</p> <p>5.208 UK2, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p>
<p>137.825-138 MHz</p> <p>METEOROLOGICAL SATELLITE (space to Earth) Mobile Satellite 5.208A, 5.208B, 5.209 Mobile except aeronautical mobile (R) Space Operation (space to Earth) Space Research (space to Earth)</p> <p>5.208 UK2, 4.20, 40</p>	<p>UK4.20 137.9625-138.0375 MHz – Ofcom. UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (see Annex E).</p>

Region 1	Region 2	Region 3
<p>137·025 – 137·175MHz</p> <p>SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-Satellite (space-to-Earth) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R)</p> <p>5.204 5.205 5.206 5.207 5.208</p>		
<p>137·175 – 137·825MHz</p> <p>SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R)</p> <p>5.204 5.205 5.206 5.207 5.208</p>		
<p>137·825 – 138MHz</p> <p>SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-Satellite (space-to-Earth) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R)</p> <p>5.204 5.205 5.206 5.207 5.208</p>		

Allocation to United Kingdom Services	Comments
<p>138.0-141.9 MHz</p> <p>LAND MOBILE Space Research (space to Earth)</p> <p>5.210, 5.211</p> <p>UK183</p> <p>UK1, 3.3, 4.21, 27, 40</p>	<p>UK4.21 137.9625–138.0375 MHz Ofcom 138.0625–138.0875 MHz Ofcom 138.1125–138.2125 MHz Ofcom 139.5125–140.4875 MHz Ofcom</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).</p> <p>UK183 Residual MoD services in Northern Ireland.</p>
<p>141.9-143.0 MHz</p> <p>LAND MOBILE Space Research (space to Earth)</p> <p>5.210, 5.211</p> <p>UK2, 4.22, 40</p>	<p>UK4.22 141.9-143.0 MHz – MoD. Use of the sub-band 142.5-143.0 MHz is for Mobile services and not restricted to Land Mobile.</p> <p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).</p>
<p>143.0-144.0 MHz</p> <p>LAND MOBILE</p> <p>5.210, 5.211</p> <p>UK183</p> <p>UK1, 3.4, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).</p> <p>UK183 Residual MoD services in Northern Ireland.</p>
<p>144.0-146.0 MHz</p> <p>AMATEUR AMATEUR-SATELLITE</p> <p>UK1, 12, 7, 40</p>	<p>UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).</p>

Region 1	Region 2	Region 3
<p>138 – 143.6MHz</p> <p>AERONAUTICAL MOBILE (OR)</p> <p>5.210 5.211 5.212 5.214</p>	<p>138 – 143.6MHz</p> <p>FIXED MOBILE RADIOLOCATION Space Research (space-to-Earth)</p>	<p>138 – 143.6MHz</p> <p>FIXED MOBILE Space Research (space-to-Earth)</p> <p>5.207 5.213</p>
<p>143.6 – 143.65MHz</p> <p>AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth)</p> <p>5.211 5.212 5.214</p>	<p>143.6 – 143.65MHz</p> <p>FIXED MOBILE RADIOLOCATION SPACE RESEARCH (space-to-Earth)</p>	<p>143.6 – 143.65MHz</p> <p>FIXED MOBILE SPACE RESEARCH (space-to-Earth)</p> <p>5.207 5.213</p>
<p>143.65 – 144MHz</p> <p>AERONAUTICAL MOBILE (OR)</p> <p>5.210 5.211 5.212 5.214</p>	<p>143.65 – 144MHz</p> <p>FIXED MOBILE RADIOLOCATION Space Research (space-to-Earth)</p>	<p>143.65 – 144MHz</p> <p>FIXED MOBILE Space Research (space-to-Earth)</p> <p>5.207 5.213</p>
<p>144 – 146MHz</p> <p>AMATEUR AMATEUR-SATELLITE</p> <p>5.216</p>		

Allocation to United Kingdom Services	Comments
146.0-149.0 MHz FIXED MOBILE except aeronautical mobile (R) <div style="text-align: right;">UK183</div> <div style="text-align: right;">UK1, 3.5, 27, 40</div>	UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E). UK183 Residual MoD services in Northern Ireland.
149.0-149.9 MHz MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) 5.209 <div style="text-align: right;">UK178</div> 5.218, 5.219, 5.221 <div style="text-align: right;">UK2, 40, 44</div>	UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E). UK44 The Space Operation service (Earth to space) may operate in this band on assignments agreed by the MoD. UK178 The Mobile Satellite service may only operate in the UK under terms agreed with the MoD.
149.9-150.05 MHz MOBILE-SATELLITE (Earth-to-space) 5.209, 5.224A RADIONAVIGATION-SATELLITE 5.224B 5.220, 5.222, 5.223 <div style="text-align: right;">UK1, 11, 40, 183</div>	UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E). UK183 Residual MoD services in Northern Ireland.

Region 1	Region 2	Region 3
146 – 148MHz FIXED MOBILE except aeronautical mobile (R)	146 – 148MHz AMATEUR 5.217	146 – 148MHz AMATEUR FIXED MOBILE 5.217
148 – 149.9MHz FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) 5.209 5.218 5.219 5.221	148 – 149.9MHz FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.209 5.218 5.219 5.221	
149.9 – 150.05MHz MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.224B 5.220 5.222 5.223		

Allocation to United Kingdom Services	Comments
150.05-152.0 MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 UK10 UK1, 11, 40, 45, 183	UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E). UK45 Oil slick markers operate on specific frequencies in the sub-band 150.5-150.55 MHz. UK183 Residual MoD services in Northern Ireland.
152.0-153.0 MHz MOBILE except aeronautical mobile UK1, 3, 11, 40	UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).
153.0-153.5 MHz MOBILE except aeronautical mobile Meteorological Aids UK5.14 UK1, 3.6, 11, 12, 40	UK5.14 153.0-153.5 MHz – MoD for the Meteorological service. UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).
153.5-154.0 MHz MOBILE except aeronautical mobile Meteorological Aids UK2, 11, 40	UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E).
154.0-156.4875 MHz FIXED MOBILE except aeronautical mobile 5.226 UK183 UK1, 3.7, 11, 12, 40	UK40 Sonobuoys operate on agreed frequencies in the band 137.0-162.0 MHz (See Annex E). UK183 Residual MoD services in Northern Ireland.
156.4875-156.5625 MHz MARITIME MOBILE (distress and calling via DSC) 5.111, 5.226, 5.227 UK1, 11, 12	
156.5625-156.7625 MHz FIXED MOBILE except aeronautical mobile (R) 5.226 UK183 UK1, 11	
156.7625-156.8375 MHz MARITIME MOBILE (distress and calling) 5.111, 5.226 UK1, 11, 12, 40	

Region 1	Region 2	Region 3
150.05 – 153MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149	150.05 – 156.4875MHz FIXED MOBILE 5.225 5.226	
153 – 154MHz FIXED MOBILE except aeronautical mobile (R) Meteorological Aids		
154 – 156.4875MHz FIXED MOBILE except aeronautical mobile (R) 5.226		
156.4875 – 156.5625MHz MARITIME MOBILE (distress and calling via DSC) 5.111 5.226 5.227		
156.5625 – 156.7625MHz FIXED MOBILE except aeronautical mobile (R) 5.226	156.5625 – 156.7625MHz FIXED MOBILE 5.225 5.226	
156.7625 – 156.8375MHz MARITIME MOBILE (distress and calling) 5.111 5.226		

Region 1	Region 2	Region 3
<p>156-8375 – 174MHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.226 5.227A 5.229</p>	<p>156-8375 – 174MHz</p> <p>FIXED MOBILE</p> <p>5.226 5.227A 5.230 5.231 5.232</p>	

Region 1	Region 2	Region 3
174 – 223MHz BROADCASTING 5.235 5.237 5.243	174 – 216MHz BROADCASTING Fixed Mobile 5.234	174 – 223MHz FIXED MOBILE BROADCASTING 5.233 5.238 5.240 5.245
	216 – 220MHz FIXED MARITIME MOBILE Radiolocation 5.241 5.242	
	220 – 225MHz	
223 – 230MHz BROADCASTING Fixed Mobile 5.243 5.246 5.247	AMATEUR FIXED MOBILE Radiolocation 5.241	223 – 230MHz FIXED MOBILE BROADCASTING AERONAUTICAL RADIONAVIGATION Radiolocation 5.250
	225 – 235MHz FIXED MOBILE	
230 – 235MHz FIXED MOBILE 5.247 5.251 5.252		230 – 235MHz FIXED MOBILE AERONAUTICAL RADIONAVIGATION 5.250

Allocation to United Kingdom Services	Comments
<p>235-0-328.6 MHz</p> <p>FIXED MOBILE Radiolocation Radio Astronomy Mobile Satellite</p> <p>5.111, 5.199, 5.256, 5.257</p> <p>UK2, 10, 11, 12, 54, 55</p>	<p>UK54 The Mobile-Satellite service operates in the band 235 - 322 MHz. The conditions stated in 5.254 and 5.255 concerning harmful interference do not apply in the UK.</p> <p>UK55 The frequency 243 MHz is a military distress frequency and may also be used in accordance with 5.111, 5.199, and 5.256.</p>
<p>328.6-335.4 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.258</p> <p>UK212</p> <p>UK4.23, 11</p>	<p>UK4.23 328.6-335.4 MHz – CAA/MoD.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>

Region 1	Region 2	Region 3
235 – 267MHz FIXED MOBILE 5.111 5.199 5.252 5.254 5.256 5.256A		
267 – 272MHz FIXED MOBILE Space Operation (space-to-Earth) 5.254 5.257		
272 – 273MHz SPACE OPERATION (space-to-Earth) FIXED MOBILE 5.254		
273 – 312MHz FIXED MOBILE 5.254		
312 – 315MHz FIXED MOBILE Mobile-Satellite (Earth-to-space) 5.254 5.255		
315 – 322MHz FIXED MOBILE 5.254		
322 – 328.6MHz FIXED MOBILE RADIO ASTRONOMY 5.149		
328.6 – 335.4MHz AERONAUTICAL RADIONAVIGATION 5.258 5.259		

Allocation to United Kingdom Services	Comments
<p>335.4-399.9 MHz</p> <p>FIXED MOBILE Mobile-Satellite 5.208A, 5.208B, 5.254, 5.255</p> <p style="text-align: right;">UK 2, 3.10, 11, 56</p>	<p>UK3.10 380-385 MHz and 390-395 MHz - Ofcom/SG (for the public safety services) subject to agreement between Ofcom and the SG – details contained in SSO(N)(00)11 – Annex I refers.</p> <p>UK56 The Mobile-Satellite service operates in the band 335.4-399.9 MHz. The conditions stated in 5.254 and 5.255 concerning harmful interference do not apply in the UK.</p>
<p>399.9-400.05 MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.209 RADIONAVIGATION-SATELLITE 5.222, 5.224B, 5.260</p> <p>5.220 UK1, 11</p>	
<p>400.05-400.15 MHz</p> <p>STANDARD FREQUENCY AND TIME SIGNAL SATELLITE (400.1 MHz)</p> <p>5.261 UK1, 11</p>	
<p>400.15-401.0 MHz</p> <p>METEOROLOGICAL-SATELLITE MOBILE-SATELLITE 5.208A, 5.208B, 5.209 METEOROLOGICAL AIDS SPACE RESEARCH 5.263 Space Operations 5.263</p> <p>5.264 UK2, 11, 57</p>	<p>UK57 The Meteorological Aids service is limited to sondes.</p>

Region 1	Region 2	Region 3
335.4 – 387MHz FIXED MOBILE 5.254		
387 – 390MHz FIXED MOBILE Mobile-Satellite (space-to-Earth) 5.208A 5.208B 5.254 5.255		
390 – 399.9MHz FIXED MOBILE 5.254		
399.9 – 400.05MHz MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.220		
400.05 – 400.15MHz STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) 5.261 5.262		
400.15 – 401MHz METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) 5.263 Space Operation (space-to-Earth) 5.262 5.264		

Allocation to United Kingdom Services	Comments
<p>401.0-406.0 MHz</p> <p>METEOROLOGICAL-AIDS SPACE OPERATION FIXED MOBILE Except Aeronautical Meteorological-Satellite (Earth to space)</p> <p style="text-align: right;">UK59 UK60 UK61</p> <p style="text-align: right;">UK2, 11</p>	<p>UK59 The Space Operation service is limited to 401-402 MHz.</p> <p>UK60 The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetering operations in the bands 401-406 MHz and 406.1-417.5 MHz.</p> <p>UK61 The Meteorological-Satellite service is limited to 401-403 MHz.</p>
<p>406.0-406.1 MHz</p> <p>MOBILE-SATELLITE (Earth to space)</p> <p>5.266, 5.267</p> <p style="text-align: right;">UK1, 11, 12, 210</p>	<p>UK210 In future decisions on use or release of spectrum at 406.1-410.0 MHz, the Ministry of Defence, acting with the Department for Transport on behalf of CAA and MCA, will take into consideration the operational implications for the Cospas-Sarsat system at 406.0-406.1 MHz.</p>
<p>406.1-410.0 MHz</p> <p>FIXED MOBILE RADIO ASTRONOMY Radiolocation</p> <p>5.149</p> <p style="text-align: right;">UK60 UK5.17, 10</p> <p style="text-align: right;">UK2, 11, 210, 211</p>	<p>UK5.17 Ofcom – for the Radio Astronomy service.</p> <p>UK60 The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetering operations in the bands 401-406 MHz and 406.1-417.5 MHz.</p> <p>UK210 In future decisions on use or release of spectrum at 406.1-410.0 MHz, the Ministry of Defence, acting with the Department for Transport on behalf of CAA and MCA, will take into consideration the operational implications for the Cospas-Sarsat system at 406.0-406.1 MHz.</p> <p>UK211 RSA has now been granted in the 406.1-430.0 MHz band – see General Note 6.</p>

Region 1	Region 2	Region 3
<p>401 – 402MHz</p> <p>METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile</p>		
<p>402 – 403MHz</p> <p>METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile</p>		
<p>403 – 406MHz</p> <p>METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile</p>		
<p>406 – 406.1MHz</p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.266 5.267</p>		
<p>406.1 – 410MHz</p> <p>FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY</p> <p>5.149</p>		

Allocation to United Kingdom Services	Comments
<p>410-0-420-0 MHz</p> <p>FIXED MOBILE Space Research 5.268</p> <p>UK158, 60</p> <p>UK2, 3.11, 4.24, 11, 188, 211</p>	<p>UK4.24 410-412 MHz – DH for the emergency services with MoD rights defined – see Annex I. 412-414 MHz – Ofcom – awarded with MoD rights defined. 414-420 MHz – MoD.</p> <p>UK60 The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetering operations in the bands 401–406 MHz and 406·1-417·5 MHz.</p> <p>UK188 The bands 412-414 MHz and 422-424 MHz have been awarded by Ofcom by auction – see General Note 4.2, c).</p> <p>UK211 RSA has now been granted in the 406·1-430·0 MHz band – see General Note 6.</p>
<p>420-430 MHz</p> <p>FIXED MOBILE RADIOLOCATION</p> <p>5.269</p> <p>UK4.25, 158</p> <p>UK2, 3.12, 11, 27, 188, 211</p>	<p>UK4.25 420-422 MHz – DH for the emergency services with MoD rights defined – see Annex I. 422-424 MHz – Ofcom – awarded with MoD rights defined. 424-430 MHz – MoD.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK158 425-429 MHz – Ofcom for Land Mobile services, by arrangement with the MoD (see Annex C).</p> <p>UK188 The bands 412-414 MHz and 422-424 MHz have been awarded by Ofcom by auction – see General Note 4.2, c).</p> <p>UK211 RSA has now been granted in the 406·1-430·0 MHz band – see General Note 6.</p>
<p>430-440 MHz</p> <p>FIXED MOBILE RADIOLOCATION Amateur-Satellite Amateur</p> <p>5.138, 5.282</p> <p>UK64, 65 UK 63 UK1, 7 UK1, 7</p> <p>UK2, 6, 11</p>	<p>UK63 The civil Radiolocation service operates on 432·5 MHz, 438·0 MHz, and 445·25 MHz in accordance with the Oslo Agreement, 1983.</p> <p>UK64. The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetry operations in the band 432·5-450·0 MHz.</p> <p>UK65 By special arrangement civil Land Mobile services may operate within sub-bands 425·0-429·0 MHz, 431·0-432·0 MHz, 440·0-443·5 MHz, and 445·5-449·5 MHz in agreed areas and on a NIB to military services (see Annex C.)</p>

Region 1	Region 2	Region 3
<p>410 – 420MHz</p> <p>FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) 5.268</p>		
<p>420 – 430MHz</p> <p>FIXED MOBILE except aeronautical mobile Radiolocation</p> <p>5.269 5.270 5.271</p>		
<p>430 – 432MHz</p> <p>AMATEUR RADIOLOCATION</p> <p>5.271 5.272 5.273 5.274 5.275 5.276 5.277</p>	<p>430 – 432MHz</p> <p>RADIOLOCATION Amateur</p> <p>5.271 5.276 5.277 5.278 5.279</p>	
<p>432 – 438MHz</p> <p>AMATEUR RADIOLOCATION Earth exploration-satellite (active) 5.279A</p> <p>5.138 5.271 5.272 5.276 5.277 5.280 5.281 5.282</p>	<p>432 – 438MHz</p> <p>RADIOLOCATION Amateur Earth exploration-satellite (active) 5.279A</p> <p>5.271 5.276 5.277 5.278 5.279 5.281 5.282</p>	
<p>438 – 440MHz</p> <p>AMATEUR RADIOLOCATION</p> <p>5.271 5.273 5.274 5.275 5.276 5.277 5.283</p>	<p>438 – 440MHz</p> <p>RADIOLOCATION Amateur</p> <p>5.271 5.276 5.277 5.278 5.279</p>	

Allocation to United Kingdom Services	Comments
<p>440-450 MHz</p> <p>FIXED MOBILE RADIOLOCATION</p> <p>5.269, 5.286</p> <p>UK64, 65, 174 UK63</p> <p>UK2, 11, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK63 The civil Radiolocation service operates on 432.5 MHz, 438.0 MHz, and 445.25 MHz in accordance with the Oslo Agreement, 1983.</p> <p>UK64. The Aeronautical Mobile service is limited to airborne transmissions in connection with the telemetry operations in the band 432.5-450.0 MHz.</p> <p>UK65 By special arrangement civil Land Mobile services may operate within sub-bands 425.0-429.0 MHz, 431.0-432.0 MHz, 440.0-443.5 MHz, and 445.5-449.5 MHz in agreed areas and on a NIB to military services (see Annex C.)</p> <p>UK174 446.0-446.1 MHz – Ofcom for PMR 446. By agreement with the MoD. ERC Decision (98)25.</p>
<p>450.0-470.0 MHz</p> <p>FIXED MOBILE</p> <p>5.209, 5.286, 5.286A, 5.287, 5.289</p> <p>UK68</p> <p>UK1, 3.13, 4.26, 11, 27</p>	<p>UK4.26 453.0–454.9875 MHz Ofcom (for the Land Mobile service) 455.475–455.850 MHz – CAA 456.0–457.0 MHz Ofcom (for the Land Mobile service) 457.5–458.5 MHz Ofcom (for scanning telemetry) 458.5–459.5 MHz Ofcom (for low power systems, including on-site paging and local communications services in the band 458.8375–459.4875 MHz) 459.5–460.5 MHz Ofcom (for the Land Mobile service) 460.75-461.225 MHz – CAA 461.225–462.5 MHz Ofcom (for the Land Mobile service) 463.0–464.0 MHz Ofcom (for scanning telemetry)</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK68 The following frequencies are used on board ships on a primary basis: 457.525 MHz, 457.550 MHz and 457.575 MHz paired with 467.525 MHz, 467.550 MHz and 467.575 MHz. 457.5375 MHz, 457.5625 MHz, 467.5375 MHz and 467.5625 MHz may also be used where needed</p>

Region 1	Region 2	Region 3
<p>440 – 450MHz</p> <p>FIXED MOBILE except aeronautical mobile Radiolocation</p> <p>5.269 5.270 5.271 5.284 5.285 5.286</p>		
<p>450 – 455MHz</p> <p>FIXED MOBILE 5.286AA</p> <p>5.209 5.271 5.286 5.286A 5.286B 5.286C 5.286D 5.286E</p>		
<p>455 – 456MHz</p> <p>FIXED MOBILE 5.286AA</p> <p>5.209 5.271 5.286A 5.286B 5.286C 5.286E</p>	<p>455 – 456MHz</p> <p>FIXED MOBILE 5.286AA MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C</p> <p>5.209</p>	<p>455 – 456MHz</p> <p>FIXED MOBILE 5.286AA</p> <p>5.209 5.271 5.286A 5.286B 5.286C 5.286E</p>
<p>456 – 459MHz</p> <p>FIXED MOBILE 5.286AA</p> <p>5.271 5.287 5.288</p>		
<p>459 – 460MHz</p> <p>FIXED MOBILE 5.286AA</p> <p>5.209 5.271 5.286A 5.286B 5.286C 5.286E</p>	<p>459 – 460MHz</p> <p>FIXED MOBILE 5.286AA MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C</p> <p>5.209</p>	<p>459 – 460MHz</p> <p>FIXED MOBILE 5.286AA</p> <p>5.209 5.271 5.286A 5.286B 5.286C 5.286E</p>
<p>460 – 470MHz</p> <p>FIXED MOBILE 5.286AA Meteorological-Satellite (space-to-Earth)</p> <p>5.287 5.288 5.289 5.290</p>		

Allocation to United Kingdom Services	Comments
<p>470-790 MHz</p> <p>AERONAUTICAL RADIONAVIGATION BROADCASTING Mobile</p> <p>5.149 5.296 5.302 5.306</p> <p>UK1, 10, 11, 27, 72, 157, 189</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK72 Subject to prior agreement between Ofcom and the MoD, limited access is permitted to the band 606-854 MHz for testing and development of military equipment for emergency operation. Such access shall not in any way interfere with or restrict the planning or operation of television broadcasting, OB services, or any transmissions for testing and development associated with television services. Radio Astronomy in the band 606-614 MHz is also to be protected from interference.</p> <p>UK157 590-598 MHz and 606-614 MHz Ofcom (for radio microphones subject to the limitations set out in NFPG paper T(N)(96)7 and modified by SSO(N)(04)04. This is subject to the needs of the Aeronautical Radionavigation and Radio Astronomy services).</p> <p>UK189 The band 470-862 MHz is the subject of Ofcom's Digital Dividend Review which covers the future use of a) spectrum that will be cleared nationally following the switchover from analogue to digital terrestrial television (DTT) and b) interleaved spectrum (spectrum available in specific geographical areas where it is not needed for DTT). See General Note 4.2, c). In the meantime, the UK Table reflects the international allocations as modified by WRC-07.</p>
<p>790 – 862MHz</p> <p>FIXED BROADCASTING MOBILE except aeronautical mobile 5.316B 5.317A</p> <p>5.314 5.316 5.319</p> <p>UK1, 10, 11, 27, 72, 157, 189</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK72 Subject to prior agreement between Ofcom and the MoD, limited access is permitted to the band 606-854 MHz for testing and development of military equipment for emergency operation. Such access shall not in any way interfere with or restrict the planning or operation of television broadcasting, OB services, or any transmissions for testing and development associated with television services. Radio Astronomy in the band 606-614 MHz is also to be protected from interference.</p> <p>UK189 The band 470-862 MHz is the subject of Ofcom's Digital Dividend Review which covers the future use of a) spectrum that will be cleared nationally following the switchover from analogue to digital terrestrial television (DTT) and b) interleaved spectrum (spectrum available in specific geographical areas where it is not needed for DTT). See General Note 4.2, c). In the meantime, the UK Table reflects the international allocations as modified by WRC-07.</p>

Region 1	Region 2	Region 3
<p>470 – 790MHz</p> <p>BROADCASTING</p> <p>5.149 5.291A 5.294 5.296 5.300 5.302 5.304 5.306 5.311A 5.312</p>	<p>470 – 512MHz</p> <p>BROADCASTING</p> <p>Fixed Mobile</p> <p>5.292 5.293</p>	<p>470 – 585MHz</p> <p>FIXED MOBILE BROADCASTING</p> <p>5.291 5.298</p>
	<p>512 – 608MHz</p> <p>BROADCASTING</p> <p>5.297</p>	<p>585 – 610MHz</p> <p>FIXED MOBILE BROADCASTING RADIONAVIGATION</p> <p>5.149 5.305 5.306 5.307</p>
	<p>608 – 614MHz</p> <p>RADIO ASTRONOMY Mobile-Satellite except aeronautical mobile- satellite (Earth-to-space)</p>	<p>610 – 890MHz</p> <p>FIXED MOBILE 5.313A 5.317B BROADCASTING</p> <p>5.149 5.305 5.306 5.307 5.311A 5.320</p>
	<p>614 – 698MHz</p> <p>BROADCASTING</p> <p>Fixed Mobile</p> <p>5.293 5.309 5.311A</p>	
<p>790 – 862MHz</p> <p>FIXED BROADCASTING MOBILE except aeronautical mobile 5.316B 5.317A</p> <p>5.312 5.314 5.315 5.316 5.316A 5.319</p>	<p>698 – 806MHz</p> <p>BROADCASTING</p> <p>Fixed MOBILE 5.313B 5.317A</p> <p>5.293 5.309 5.311A</p>	
	<p>806 – 890MHz</p> <p>FIXED MOBILE 5.317A BROADCASTING</p> <p>5.317 5.318</p>	

Region 1	Region 2	Region 3
<p>862 – 890MHz</p> <p>FIXED</p> <p>MOBILE except aeronautical mobile 5.317A</p> <p>BROADCASTING 5.322</p> <p>5.319 5.323</p>	<p>Cont....</p> <p>806 – 890MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>BROADCASTING</p> <p>5.317 5.318</p>	<p>Cont....</p> <p>610 – 890MHz</p> <p>FIXED</p> <p>MOBILE</p> <p>BROADCASTING</p> <p>5.149 5.305 5.306 5.307</p> <p>5.311 5.320</p>

Allocation to United Kingdom Services	Comments
<p>880-915 MHz</p> <p>FIXED MOBILE Radiolocation</p> <p>5.317A, 5.317A</p> <p>UK5.18 UK5.18</p> <p>UK1, 6, 11, 79</p>	<p>UK5.18 880-915 MHz – Ofcom (for the Fixed and Mobile services) 890-915 MHz – MoD (for the Radiolocation service)</p> <p>UK79 Ofcom for electronic communications services operating in the bands 880-915 MHz and 925-960 MHz.</p>
<p>915-921 MHz</p> <p>MOBILE Radiolocation</p> <p>5.317A</p> <p>UK74</p> <p>UK.29, 11, 192</p>	<p>UK4.29 915-917 – MoD. 917-921 MHz – Ofcom (for the Mobile service) 915-921 MHz – MoD (for the Radiolocation service)</p> <p>UK74 Civil systems may also operate in 871-872 MHz and 916-917 MHz on a non-protected basis in accordance with the agreement between MoD and Ofcom.</p> <p>UK192 The bands 872-876 MHz and 917-921 MHz have been identified for award by Ofcom by auction – see General Note 5.2, c).</p>
<p>921-925 MHz</p> <p>MOBILE Radiolocation</p> <p>5.317A</p> <p>UK1, 11, 181</p>	<p>UK181 The GSM-R system operates in this band.</p>
<p>925-960 MHz</p> <p>FIXED MOBILE Radiolocation</p> <p>5.317A</p> <p>UK5.19 UK5.19</p> <p>UK1, 10, 11, 79</p>	<p>UK5.19 925-960 MHz – Ofcom (for the Fixed and Mobile services) 925-942 MHz – MoD (for the Radiolocation service)</p> <p>UK79 Ofcom for electronic communications services operating in the bands 880-915 MHz and 925-960 MHz.</p>

Region 1	Region 2	Region 3
<p>890 – 942MHz</p> <p>FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322 Radiolocation</p> <p>5.323</p>	<p>890 – 902MHz</p> <p>FIXED MOBILE except aeronautical mobile 5.317A Radiolocation</p> <p>5.318 5.325</p> <hr/> <p>902 – 928MHz</p> <p>FIXED Amateur Mobile except aeronautical mobile 5.325A Radiolocation</p> <p>5.150 5.325 5.326</p> <hr/> <p>928 – 942MHz</p> <p>FIXED MOBILE except aeronautical mobile 5.317A Radiolocation</p> <p>5.325</p>	<p>890 – 942MHz</p> <p>FIXED MOBILE 5.317A BROADCASTING Radiolocation</p> <p>5.327</p>
<p>942 – 960MHz</p> <p>FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322</p> <p>5.323</p>	<p>942 – 960MHz</p> <p>FIXED MOBILE 5.317A</p>	<p>942 – 960MHz</p> <p>FIXED MOBILE 5.317A BROADCASTING</p> <p>5.320</p>

Allocation to United Kingdom Services	Comments
<p>960-1164 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.328 UK212</p> <p>AERONAUTICAL MOBILE (R) 5.327A UK212</p> <p style="text-align: right;">UK4.30, 10, 11, 82</p>	<p>UK4.30 960-1164 MHz – CAA/MoD</p> <p>UK82 In the band 960-1215 MHz – MoD communications systems operate with the agreement of CAA.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>1164-1215 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.328 UK212</p> <p>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B UK212</p> <p>5.328A UK4.31, 10, 11, 82</p>	<p>UK4.31 1164-1215 MHz – CAA/MoD</p> <p>UK82 In the band 960-1215 MHz – MoD communications systems operate with the agreement of CAA.</p> <p>UK212 All aeronautical assignments in this band are undertaken by the CAA.</p>
<p>1215-1240 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION UK5.20</p> <p>RADIONAVIGATION UK81</p> <p>RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.329 5.329A</p> <p>SPACE RESEARCH (active)</p> <p>5.331, 5.332 UK4.32, 11</p>	<p>UK4.32 1215-1240 MHz – CAA/MoD (for the Radionavigation service)</p> <p>UK5.20 1215-1260 MHz - MoD (for the Radiolocation service).</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD and services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p>
<p>1240-1260 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION UK2, 5.21</p> <p>RADIONAVIGATION UK81</p> <p>RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.329, 5.329A</p> <p>SPACE RESEARCH (active)</p> <p>Amateur UK7</p> <p>5.282, 5.331, 5.332, 5.335A UK4.33, 11</p>	<p>UK4.33 1240-1260 MHz – CAA/MoD (for the Radionavigation service).</p> <p>UK5.21 1215-1260 MHz - MoD (for the Radiolocation service); 1240-1260 MHz - Ofcom (for the Amateur service).</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD and services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p>
<p>1260-1300 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION UK5.22</p> <p>RADIONAVIGATION UK81</p> <p>RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.329, 5.329A</p> <p>SPACE RESEARCH (active)</p> <p>Amateur UK5.22, 7</p> <p>Amateur-satellite (Earth to space) UK5.22, 7</p> <p>5.149, 5.282, 5.331, 5.335A UK4.34, 11, 83</p>	<p>UK4.34 1260-1300 MHz – CAA/MoD (for the Radionavigation service)</p> <p>UK5.22 1260-1270 MHz - Ofcom (for the Amateur-Satellite service); 1260-1325 MHz - Ofcom (for the Amateur service); 1260-1350 MHz - MoD (for the Radiolocation service)</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD and services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p> <p>UK83 Maritime mobile seismic streamer tailbuoys may operate on 1312.5 MHz, 1337.5 MHz, 1362.5 MHz and 1389.5 MHz on a non-interference basis to other users.</p>

Region 1	Region 2	Region 3
<p>960 – 1 164MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.328 AERONAUTICAL MOBILE (R) 5.327A</p>		
<p>1 164 – 1 215MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.328A</p>		
<p>1 215 – 1 240MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space). 5.328B 5.329 5.329A SPACE RESEARCH (active) 5.330 5.331 5.332</p>		
<p>1 240 – 1 300MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.330 5.331 5.332 5.335, 5.335A</p>		

Allocation to United Kingdom Services	Comments
<p>1300-1350 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION UK5.23 RADIONAVIGATION UK81 RADIONAVIGATION-SATELLITE (Earth to space) Amateur UK5.23, 7</p> <p>5.149, 5.337A UK4.35, 11, 81, 83</p>	<p>UK4.35 1300-1350 MHz - MoD (for the Radiolocation service)</p> <p>UK5.23 1300-1325 MHz – Ofcom (for the Amateur service)</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD and services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p> <p>UK83 Maritime mobile seismic streamer tailbuoys may operate on 1312.5 MHz, 1337.5 MHz, 1362.5 MHz and 1389.5 MHz on a non-interference basis to other users.</p>
<p>1350-1375 MHz</p> <p>FIXED MOBILE (except aeronautical mobile) Radiolocation UK5.24, 81</p> <p>5.149, 5.338A, 5.339, UK1, 10, 11, 83</p>	<p>UK5.24 MoD (for the Radiolocation service).</p> <p>UK81 Services operating in the band 1215-1350 MHz are subject to coordination with CAA and MoD and services in the band 1350-1365 MHz are subject to co-ordination with Ofcom.</p> <p>UK83 Maritime mobile seismic streamer tailbuoys may operate on 1312.5 MHz, 1337.5 MHz, 1362.5 MHz and 1389.5 MHz on a non-interference basis to other users.</p>
<p>1375-1400 MHz</p> <p>FIXED MOBILE (except aeronautical mobile)</p> <p>5.149, 5.339 UK2, 10, 11, 83, 151</p>	<p>UK83 Maritime mobile seismic streamer tailbuoys may operate on 1312.5 MHz, 1337.5 MHz, 1362.5 MHz and 1389.5 MHz on a non-interference basis to other users.</p> <p>UK151 Civil low-power video links may operate at 1394 MHz ±5 MHz on a non-interference, no protection basis.</p>
<p>1400-1427 MHz</p> <p>EARTH EXPLORATION –SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive)</p> <p>5.340, 5.341 UK1, 11</p>	
<p>1427-1429 MHz</p> <p>SPACE OPERATION (Earth to space) FIXED MOBILE</p> <p>5.338A, 5.341 UK2, 11</p>	
<p>1429-1452 MHz</p> <p>FIXED MOBILE</p> <p>5.338A , 5.341 UK2, 11</p>	

Region 1	Region 2	Region 3
<p>1 300 – 1 350MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (Earth to space)</p> <p>5.149 5.337A</p>		
<p>1 350 – 1 400MHz</p> <p>FIXED MOBILE RADIOLOCATION</p> <p>5.149 5.338, 5.338A 5.339</p>	<p>1 350 – 1 400MHz</p> <p>RADIOLOCATION</p> <p>5.149 5.334 5.339</p>	
<p>1 400 – 1 427MHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 5.341</p>		
<p>1 427 – 1 429MHz</p> <p>SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile</p> <p>5.338A 5.341</p>		
<p>1 429 – 1 452MHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.338A 5.341 5.342</p>	<p>1 429 – 1 452MHz</p> <p>FIXED MOBILE 5.343</p> <p>5.338A 5.341</p>	

Allocation to United Kingdom Services	Comments
<p>1452-1492 MHz</p> <p>FIXED MOBILE (except aeronautical mobile) BROADCASTING 5.345, BROADCASTING-SATELLITE, 5.208B, 5.345</p> <p>5.341 UK1, 11, 193</p>	<p>UK193 The band 1452-1492 MHz has been awarded by Ofcom by auction. See general note 4.2, c). The band is subject to the Maastricht 2002 Special Arrangement (as revised in Constanta in 2007).</p>
<p>1492-1518 MHz</p> <p>FIXED MOBILE (except aeronautical mobile)</p> <p>5.341 UK1, 11, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>1518-1525 MHz</p> <p>FIXED MOBILE (except aeronautical mobile) MOBILE-SATELLITE (space-to-Earth) 5.348, 5.351A</p> <p>5.341 UK1, 11, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>1525-1530 MHz</p> <p>SPACE OPERATION (space to Earth) FIXED MOBILE-SATELLITE (space to Earth) 5.347A, 351A Earth Exploration –Satellite Mobile (except aeronautical mobile)</p> <p>5.341, 5.351, 5.354 UK1, 11</p>	

Region 1	Region 2	Region 3
<p>1 452 – 1 492MHz</p> <p>FIXED MOBILE except aeronautical mobile BROADCASTING 5.345 BROADCASTING SATELLITE 5.208B 5.345</p> <p>5.341 5.342</p>	<p>1 452 – 1 492MHz</p> <p>FIXED MOBILE 5.343 BROADCASTING 5.345 BROADCASTING-SATELLITE 5.208B 5.345</p> <p>5.341 5.344</p>	
<p>1 492 – 1 518MHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.341 5.342</p>	<p>1 492 – 1 518MHz</p> <p>FIXED MOBILE 5.343</p> <p>5.341 5.344</p>	<p>1 492 – 1 518MHz</p> <p>FIXED MOBILE</p> <p>5.341</p>
<p>1 518 – 1 525MHz</p> <p>FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A</p> <p>5.341 5.342</p>	<p>1 518 – 1 525MHz</p> <p>FIXED MOBILE 5.343 MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A</p> <p>5.341 5.344</p>	<p>1 518 – 1 525MHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A</p> <p>5.341</p>
<p>1 525 – 1 530MHz</p> <p>SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A Earth Exploration-Satellite Mobile except aeronautical mobile 5.349</p> <p>5.341 5.342 5.350 5.351 5.352A 5.354</p>	<p>1 525 – 1 530MHz</p> <p>SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A Earth Exploration-Satellite Fixed Mobile 5.343</p> <p>5.341 5.351 5.354</p>	<p>1 525 – 1 530MHz</p> <p>SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A Earth Exploration-Satellite Mobile 5.349</p> <p>5.341 5.351 5.352A 5.354</p>

Allocation to United Kingdom Services	Comments
<p>1530-1533 MHz</p> <p>SPACE OPERATION (space to Earth) MOBILE-SATELLITE (space to Earth) 5.347A, 5.351A 5.353A Earth Exploration–Satellite Fixed Mobile (except aeronautical mobile)</p> <p>5.341, 5.351, 5.354 UK1, 11, 12</p>	
<p>1533-1535 MHz</p> <p>SPACE OPERATION (space to Earth) MOBILE-SATELLITE (space to Earth) 5.351A 5.353A Earth Exploration–Satellite Mobile (except aeronautical mobile)</p> <p>5.341, 5.351, 5.354 UK1, 11, 12</p>	
<p>1535-1559 MHz</p> <p>MOBILE-SATELLITE (space to Earth) 5.347A, 5.351A</p> <p>5.341, 5.351, 5.353A, 5.354, 5.356, 5.357, 5.357A UK1, 11, 12</p>	
<p>1559-1610 MHz</p> <p>AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space to Earth) (space to space) 5.208B, 5.328B, 5.329A</p> <p>5.341 UK4.36, 11</p>	<p>UK4.36 1559-0-1610 MHz – CAA/MoD (for the Aeronautical Radionavigation service)</p>
<p>1610-1610.6 MHz</p> <p>AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth to space) 5.351A</p> <p>5.341, 5.364, 5.366, 5.367, 5.368, 5.371, 5.372 UK4.37, 10, 11</p>	<p>UK4.37 1610-0-1610.6 MHz – CAA/MoD (for the Aeronautical Radionavigation service) 1610-0–1610.6 MHz – Ofcom (for the Mobile Satellite service).</p>

Region 1	Region 2	Region 3
<p>1 530 – 1 535MHz</p> <p>SPACE OPERATION (space-to-Earth)</p> <p>MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A 5.353A</p> <p>Earth Exploration-Satellite Fixed Mobile except aeronautical mobile</p> <p>5.341 5.342 5.351 5.354</p>	<p>1 530 – 1 535MHz</p> <p>SPACE OPERATION (space-to-Earth)</p> <p>MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A 5.353A</p> <p>Earth Exploration-Satellite Fixed Mobile 5.343</p> <p>5.341 5.351 5.354</p>	
<p>1 535 – 1 559MHz</p> <p>MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A</p> <p>5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A</p>		
<p>1 559 – 1 610MHz</p> <p>AERONAUTICAL RADIONAVIGATION</p> <p>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.208B 5.328B 5.329A</p> <p>5.341 5.362B 5.362C</p>		
<p>1 610 – 1 610-6MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A</p> <p>AERONAUTICAL RADIONAVIGATION</p> <p>5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.369 5.371 5.372</p>	<p>1 610 – 1 610-6MHz</p> <p>MOBILE-SATELLITE (Earth-to- space) 5.351A</p> <p>AERONAUTICAL RADIONAVIGATION</p> <p>RADIODETERMINATION- SATELLITE (Earth-to-space)</p> <p>5.341 5.364 5.366 5.367 5.368 5.370 5.372</p>	<p>1 610 – 1 610-6MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A</p> <p>AERONAUTICAL RADIONAVIGATION</p> <p>Radiodetermination-Satellite (Earth-to-space)</p> <p>5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372</p>

Allocation to United Kingdom Services	Comments
<p>1610.6 – 1613.8 MHz</p> <p>AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth to space) 5.351A RADIO ASTRONOMY</p> <p>5.149, 5.341, 5.364, 5.366, 5.367, 5.368, 5.371, 5.372</p> <p style="text-align: right;">UK4.38, 10, 11</p>	<p>UK4.38 1610.6-1613.8 MHz – CAA/MoD (for the Aeronautical Radionavigation service) 1610.6–1613.8 MHz – Ofcom (for the Mobile Satellite service)</p>
<p>1613.8-1626.5 MHz</p> <p>AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth to space) 5.351A Mobile-Satellite (space to Earth)</p> <p>5.341, 5.364, 5.365, 5.366, 5.367, 5.368, 5.371, 5.372</p> <p style="text-align: right;">UK4.39, 10, 11</p>	<p>UK4.39 1613.8-1626.5 MHz – CAA/MoD (for the Aeronautical Radionavigation service) 1613.8–1626.5 MHz – Ofcom (for the Mobile Satellite service)</p>
<p>1626.5-1660 MHz</p> <p>MOBILE-SATELLITE (Earth to space) 5.351A</p> <p>5.341, 5.351, 5.353A, 5.354 5.357A, 5.374, 5.375, 5.376</p> <p style="text-align: right;">UK1, 11, 12</p>	
<p>1660-1660.5 MHz</p> <p>MOBILE-SATELLITE (Earth to space) 5.351A RADIO ASTRONOMY UK10</p> <p>5.149, 5.341, 5.351, 5.354, 5.376A UK1, 11</p>	
<p>1660.5-1668 MHz</p> <p>RADIO ASTRONOMY UK10 SPACE RESEARCH (passive) Fixed Mobile</p> <p>5.149 5.341 5.379A UK1, 11</p>	

Region 1	Region 2	Region 3
<p>1 610.6 – 1 613.8MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION</p> <p>5.149 5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.369 5.371 5.372</p>	<p>1 610.6 – 1 613.8MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to-space)</p> <p>5.149 5.341 5.364 5.366 5.367 5.368 5.370 5.372</p>	<p>1 610.6 – 1 613.8MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION Radiodetermination-Satellite (Earth-to-space)</p> <p>5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372</p>
<p>1 613.8 – 1 626.5MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-to-Earth) 5.347A</p> <p>5.341 5.355 5.359 5.363 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372</p>	<p>1 613.8 – 1 626.5MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to-space) Mobile-Satellite (space-to-Earth) 5.347A</p> <p>5.341 5.364 5.365 5.366 5.367 5.368 5.370 5.372</p>	<p>1 613.8 – 1 626.5MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-to-Earth) 5.347A Radiodetermination-Satellite (Earth-to-space)</p> <p>5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.372</p>
<p>1 626.5 – 1 660MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A</p> <p>5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A, 5.374 5.375, 5.376</p>		
<p>1 660 – 1 660.5MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY</p> <p>5.149 5.341 5.351 5.354 5.362A 5.376A</p>		
<p>1 660.5 – 1 668MHz</p> <p>RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile</p> <p>5.149 5.341 5.379 5.379A</p>		

Allocation to United Kingdom Services	Comments
<p>1668-1668.4 MHz</p> <p>FIXED MOBILE-SATELLITE (Earth-to-space) 5.348C 5.379B 5.379C RADIO ASTRONOMY UK10 SPACE RESEARCH (passive) Mobile except aeronautical mobile</p> <p>5.149 5.341 5.379A 5.379D UK1, 3.15, 11</p>	
<p>1668.4-1670 MHz</p> <p>FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY UK10</p> <p>5.149 5.341 5.379D UK1, 3.16, 11</p>	
<p>1670-1675 MHz</p> <p>FIXED METEOROLOGICAL-SATELLITE (space to Earth) MOBILE 5.380 MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B</p> <p>5.341 5.379D 5.379E 5.380A UK1, 11</p>	
<p>1675-1690 MHz</p> <p>METEOROLOGICAL AIDS FIXED UK5.25 METEOROLOGICAL-SATELLITE (space to Earth) MOBILE except aeronautical mobile UK5.25</p> <p>5.341 UK1, 3.17, 11</p>	<p>UK3.17 1677-1685 MHz – Ofcom/SG for the public safety services – see Annex I.</p> <p>UK5.25 1675-1677 MHz and 1685-1690 MHz – Ofcom (for the Fixed and Mobile service).</p>
<p>1690-1698 MHz</p> <p>METEOROLOGICAL-SATELLITE (space to Earth) Fixed Mobile except aeronautical mobile</p> <p>5.289, 5.341 UK1,4.40, 11</p>	<p>UK4.40 1694-1698 MHz– Ofcom (for the Fixed and Mobile services).</p>
<p>1698-1700 MHz</p> <p>METEOROLOGICAL-SATELLITE (space to Earth) FIXED UK87</p> <p>5.289, 5.341 UK1, 3.18, 11</p>	<p>UK3.18 1698-1700 MHz – Ofcom/SG for the public safety services – see Annex I.</p> <p>UK87 Services operating within 50 km of Lasham are subject to prior co-ordination with the Ministry of Defence.</p>

Region 1	Region 2	Region 3
<p>1 668 – 1 668.4MHz</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile</p> <p>5.149 5.341 5.379 5.379A</p>		
<p>1 668.4 – 1 670MHz</p> <p>METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY</p> <p>5.149 5.341 5.379D 5.379E</p>		
<p>1 670 – 1 675MHz</p> <p>METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE 5.380 MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B</p> <p>5.341 5.379D 5.379E 5.380A</p>		
<p>1 675 – 1 690MHz</p> <p>METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile</p> <p>5.341</p>		
<p>1 690 – 1 700MHz</p> <p>METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) Fixed Mobile except aeronautical mobile</p> <p>5.289 5.341 5.382</p>	<p>1 690 – 1 700MHz</p> <p>METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth)</p> <p>5.289 5.341 5.381</p>	

Allocation to United Kingdom Services	Comments
<p>1700-1710 MHz</p> <p>FIXED METEOROLOGICAL-SATELLITE (space to Earth)</p> <p>5.289, 5.341</p> <p>UK1, 11</p>	
<p>1710-1785 MHz</p> <p>FIXED MOBILE 5.384A Space Operation (Earth to space)</p> <p>5.149, 5.341, 5.385</p> <p>UK162 UK90A UK1, 10, 11, 194</p>	<p>UK90A The Space Operations service is limited to MoD use of 1750·0 -1850·0 MHz at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 210 560). This assignment is recorded for information. The parties concerned will take all practical steps to minimise the impact of the use of the assignment on services operating in accordance with the UK Frequency Allocation Table.</p> <p>UK162 Ofcom for electronic communications services operating in the bands bands 1710-1781·7 MHz and 1805-1876·7 MHz.</p> <p>UK194 The bands 1781·7-1785·0 MHz and 1876·7-1880·0 MHz have been awarded by Ofcom by auction – see General Note 4.2, c).</p>
<p>1785-1800 MHz</p> <p>FIXED MOBILE Space Operation (Earth to space)</p> <p>UK90A UK1, 3.19, 11, 27, 195</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex J</p> <p>UK90A The Space Operations service is limited to MoD use of 1750·0 -1850·0 MHz at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 210 560). This assignment is recorded for information. The parties concerned will take all practical steps to minimise the impact of the use of the assignment on services operating in accordance with the UK Frequency Allocation Table.</p> <p>UK195 The band 1785-1805 MHz has been awarded by Ofcom by auction in Northern Ireland – see General Note 4.2, c).</p>

Region 1	Region 2	Region 3
1 700 – 1 710MHz FIXED METEOROLOGICAL-SATELLITE(space-to-Earth) MOBILE except aeronautical mobile 5.289 5.341		1 700 – 1 710MHz FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.289 5.341 5.384
1 710 – 1 930MHz FIXED MOBILE 5.384A 5.388A 5.388B 5.149 5.341 5.385 5.386 5.387 5.388		

Allocation to United Kingdom Services	Comments
<p>1800-1805 MHz</p> <p>MOBILE Fixed Space Operation (Earth to space)</p> <p style="text-align: right;">UK90A</p> <p style="text-align: right;">UK1, 10, 11, 195</p>	<p>UK90A The Space Operations service is limited to MoD use of 1750.0-1850.0 MHz at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 210 560). This assignment is recorded for information. The parties concerned will take all practical steps to minimise the impact of the use of the assignment on services operating in accordance with the UK Frequency Allocation Table.</p> <p>UK195 The band 1785-1805 MHz has been awarded by Ofcom by auction in Northern Ireland – see General Note 4.2, c).</p>
<p>1805-1880 MHz</p> <p>FIXED MOBILE 5.384A Space Operation (Earth to space)</p> <p style="text-align: right;">UK162 UK90A</p> <p style="text-align: right;">UK1, 11, 194</p>	<p>UK90A The Space Operations service is limited to MoD use of 1750.0 -1850.0 MHz at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 210 560). This assignment is recorded for information. The parties concerned will take all practical steps to minimise the impact of the use of the assignment on services operating in accordance with the UK Frequency Allocation Table.</p> <p>UK162 Ofcom for electronic communications services operating in the bands 1710-1787.7 MHz and 1805-1876.7 MHz.</p> <p>UK194 The bands 1781.7-1785.0 MHz and 1876.7-1880.0 MHz have been awarded by Ofcom by auction – see General Note 4.2, c).</p>
<p>1880-1885 MHz</p> <p>MOBILE 5.388A Fixed</p> <p style="text-align: right;">UK164</p> <p style="text-align: right;">UK1, 11</p>	<p>UK164 Ofcom for the Digital Enhanced Cordless Telecommunications (DECT) Service operating in 1880-1900 MHz</p>
<p>1885-1900 MHz</p> <p>MOBILE 5.388A Fixed</p> <p style="text-align: right;">UK164, 165</p> <p>5.388</p> <p style="text-align: right;">UK1, 11</p>	<p>UK164 Ofcom for the Digital Enhanced Cordless Telecommunications (DECT) Service operating in 1880-1900 MHz</p> <p>UK165 Ofcom for electronic communications services operating in the bands:-1899.9-1980 MHz and 2110-2170 MHz.</p>

Region 1	Region 2	Region 3
<p>Cont....</p> <p>1 710 – 1 930MHz</p> <p>FIXED</p> <p>MOBILE 5.380 5.384A 5.388A</p> <p>5.149 5.341 5.385 5.386 5.387 5.388</p>		

Allocation to United Kingdom Services	Comments
<p>1900-1980 MHz</p> <p>FIXED MOBILE 5.388A</p> <p>5.388</p> <p>UK165</p> <p>UK1, 11</p>	<p>UK165 Ofcom for electronic communications services operating in the bands 1899-9-1980 MHz and 2110-2170 MHz.</p>
<p>1980-2010 MHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (Earth to space) 5.351A</p> <p>5.388, 5.389A, 5.389B</p> <p>UK1, 11, 196</p>	<p>UK196 Commission Decision 2007/98/EC (harmonised use of 1980-2010 MHz and 2170-2200 MHz for MSS) applies.</p>
<p>2010-2025 MHz</p> <p>FIXED MOBILE</p> <p>5.388</p> <p>UK1, 11, 197</p>	<p>UK197 The band 2010-2025 MHz has been identified for award by Ofcom by auction – see General Note 4.2, c).</p>
<p>2025-2110 MHz</p> <p>MOBILE SPACE RESEARCH (Earth to space) (space to space) SPACE OPERATION (Earth to space) (space to space) EARTH EXPLORATION SATELLITE (Earth to space) (space to space)</p> <p>5.391, 5.392</p> <p>UK4.43, 11, 27, 90B</p>	<p>UK4.43 2025-2070 MHz – MoD for the Mobile service. 2025-2110 MHz – MoD for the Space Operations service. 2070-2110 MHz – Ofcom for the Mobile service. Ofcom may also use 2025-2070 MHz for PMSE on the basis of no protection from and non-interference to MoD services. Airborne use is also permitted.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK90B Co-ordination of mobile assignments close to MoD earth stations at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 209 561) will be required to avoid interference to those stations.</p>
<p>2110-2120 MHz</p> <p>FIXED MOBILE 5.388A SPACE RESEARCH (Earth to space) (deep space)</p> <p>5.388</p> <p>UK165</p> <p>UK1, 11</p>	<p>UK165 Ofcom for electronic communications services operating in the bands 1899-9-1980 MHz and 2110-2170 MHz.</p>

Region 1	Region 2	Region 3
1 930 – 1 970MHz FIXED MOBILE 5.388A 5.388	1 930 – 1 970MHz FIXED MOBILE 5.388A Mobile-Satellite (Earth-to-space) 5.388	1 930 – 1 970MHz FIXED MOBILE 5.388A 5.388
1 970 – 1 980MHz FIXED MOBILE 5.388A 5.388		
1 980 – 2 010MHz FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A 5.389B 5.389F		
2 010 – 2 025MHz FIXED MOBILE 5.388A 5.388B 5.388	2 010 – 2 025MHz FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.388 5.389C 5.389E	2 010 – 2 025MHz FIXED MOBILE 5.388A 5.388B 5.388
2 025 – 2 110MHz SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space) 5.392		
2 110 – 2 120MHz FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (Earth-to-space) 5.388		

Allocation to United Kingdom Services	Comments
<p>2120-2170 MHz</p> <p>FIXED MOBILE 5.388A</p> <p>5.388</p> <p>UK165</p> <p>UK1, 11</p>	<p>UK165 Ofcom for electronic communications services operating in the bands 1899-9-1980 MHz and 2110-2170 MHz.</p>
<p>2170-2200 MHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (space to Earth) 5.351A</p> <p>5.388, 5.389A</p> <p>UK1, 11, 196</p>	<p>UK196 Commission Decision 2007/98/EC (harmonised use of 1980-2010 MHz and 2170-2200 MHz for MSS) applies.</p>
<p>2200-2290 MHz</p> <p>MOBILE SPACE RESEARCH (space to Earth) (space to space) SPACE OPERATION (space to Earth) (space to space) EARTH EXPLORATION SATELLITE (space to Earth) (space to space)</p> <p>5.391, 5.392</p> <p>UK4.44, 11, 27, 88, 90B</p>	<p>UK4.44 2200-2245 MHz – MoD for the Mobile service. 2200-2290 MHz – MoD for the Space Operations service. 2245-2290 MHz – Ofcom for the Mobile service subject to arrangements to protect MoD services. Ofcom may also use 2200-2245 MHz for PMSE on the basis of no protection from and non-interference to MoD services.</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK88 MoD may operate Aeronautical Mobile (OR) services under special arrangements in the band 2200-2290 MHz.</p> <p>UK90B Co-ordination of mobile assignments close to MoD earth stations at Oakhanger (SU 776 357), Colerne (ST 808 717) and Menwith Hill (SE 209 561) will be required to avoid interference to those stations.</p>
<p>2290-2300 MHz</p> <p>FIXED MOBILE Space Research (space to Earth) (deep space)</p> <p>UK1, 10, 11, 27, 198</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK198 The band 2290-2302 MHz has been identified for award by Ofcom by auction – see General Note 4.2, c).</p>

Region 1	Region 2	Region 3
2 120 – 2 160MHz FIXED MOBILE 5.388A 5.388	2 120 – 2 160MHz FIXED MOBILE 5.388A Mobile-Satellite (space-to-Earth) 5.388	2 120 – 2 160MHz FIXED MOBILE 5.388A 5.388
2 160 – 2 170MHz FIXED MOBILE 5.388A 5.388B 5.388	2 160 – 2 170MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.388 5.389C 5.389E	2 160 – 2 170MHz FIXED MOBILE 5.388A 5.388B 5.388
2 170 – 2 200MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F		
2 200 – 2 290MHz SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) 5.392		
2 290 – 2 300MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)		

Allocation to United Kingdom Services	Comments
2300-2302 MHz FIXED MOBILE 5.384A UK1, 11, 198	UK198 The band 2290-2302 MHz has been identified for award by Ofcom by auction – see General Note 4.2, c).
2302-2310 MHz FIXED MOBILE 5.384A UK1, 3.20, 11	
2310-2450 MHz FIXED MOBILE 5.384A Amateur Amateur-Satellite Radiolocation 5.150, 5.282 UK5.26 UK3.21, 5.26 UK5.26, 7 UK5.26, 7 UK 5.26 UK2, 6, 11, 27, 94	UK5.26 2310-2450 MHz – MoD (for the Fixed, Mobile and Radiolocation services) and Ofcom (for the Amateur and Amateur-Satellite services). UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK94 2400-0–2483-5 MHz – Ofcom (for Short Range Devices operating to ERC Recommendation T/R 70-03 and NIB/NP to other users).
2450-2483-5 MHz FIXED MOBILE Radiolocation 5.150 UK 5.27, 95 UK1, 6, 11, 27, 94	UK5.27 2450-0-2483-5 MHz MoD for the Radiolocation service. UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK94 2400-0–2483-5 MHz – Ofcom (for Short Range Devices operating to ERC Recommendation T/R 70-03 and NIB/NP to other users). UK95 Limited to land and naval radars below 2550 MHz and naval radars below 2600 MHz.
2483-5-2500 MHz FIXED MOBILE (except aeronautical mobile) MOBILE-SATELLITE (space to Earth) 5.351A Radiolocation 5.150, 5.371, 5.398, 5.399, 5.402 UK 95 UK1, 6, 11, 27	UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK95 Limited to land and naval radars below 2550 MHz and naval radars below 2600 MHz.

Region 1	Region 2	Region 3
<p>2 300 – 2 450MHz</p> <p>FIXED MOBILE 5.384A Amateur Radiolocation</p> <p>5.150 5.282 5.395</p>	<p>2 300 – 2 450MHz</p> <p>FIXED MOBILE 5.384A RADIOLOCATION Amateur</p> <p>5.150 5.282 5.393 5.394 5.396</p>	
<p>2 450 – 2 483.5MHz</p> <p>FIXED MOBILE Radiolocation</p> <p>5.150 5.397</p>	<p>2 450 – 2 483.5MHz</p> <p>FIXED MOBILE RADIOLOCATION</p> <p>5.150</p>	
<p>2 483.5 – 2 500MHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A Radiolocation</p> <p>5.150 5.371 5.397 5.398 5.399 5.400 5.402</p>	<p>2 483.5 – 2 500MHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION RADIODETERMINATION- SATELLITE (space-to-Earth) 5.398</p> <p>5.150 5.402</p>	<p>2 483.5 – 2 500MHz</p> <p>FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION Radiodetermination-Satellite (space-to-Earth) 5.398</p> <p>5.150 5.400 5.402</p>

Allocation to United Kingdom Services	Comments
<p>2500-2520 MHz</p> <p>FIXED 5.410, MOBILE (except aeronautical mobile) 5.384A</p> <p>UK1, 11, 27, 96, 199, 200</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK96 In accordance with 5.410 new tropospheric scatter systems will not be developed in the band 2500-2690 MHz.</p> <p>UK199 The band 2500-2690 MHz has been identified for award by Ofcom by auction – see General Note 4.2, c).</p> <p>UK200 Commission Decision 2008/477/EC (harmonisation of 2500-2690 MHz for electronic communications services) applies.</p>
<p>2520-2655 MHz</p> <p>FIXED 5.410, MOBILE 5.384A</p> <p>5.339, 5.417D, 5.418C</p> <p>UK1, 11, 27, 96, 199, 200</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK96 In accordance with 5.410 new tropospheric scatter systems will not be developed in the band 2500-2690 MHz.</p> <p>UK199 The band 2500-2690 MHz has been identified for award by Ofcom by auction – see General Note 4.2, c).</p> <p>UK200 Commission Decision 2008/477/EC (harmonisation of 2500-2690 MHz for electronic communications services) applies.</p>
<p>2655-2670 MHz</p> <p>FIXED 5.410, UK96 MOBILE 5.384A Earth Exploration-Satellite (passive) Radio Astronomy UK10 Space Research (passive)</p> <p>5.149 UK1, 11, 27, 199, 200</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK96 In accordance with 5.410 new tropospheric scatter systems will not be developed in the band 2500-2690 MHz.</p> <p>UK199 The band 2500-2690 MHz has been identified for award by Ofcom by auction – see General Note 4.2, c).</p> <p>UK200 Commission Decision 2008/477/EC (harmonisation of 2500-2690 MHz for electronic communications services) applies.</p>

Region 1	Region 2	Region 3
<p>2 500 – 2 520MHz</p> <p>FIXED 5.410 MOBILE except aeronautical mobile 5.384A</p> <p>5.405 5.412</p>	<p>2 500 – 2 520MHz</p> <p>FIXED 5.410 FIXED-SATELLITE (space-to- Earth) 5.415 MOBILE except aeronautical mobile 5.384A</p> <p>5.404</p>	<p>2 500 – 2 520MHz</p> <p>FIXED 5.410 FIXED-SATELLITE (space-to- Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space- to-Earth) 5.351A 5.407 5.414 5.414A</p> <p>5.404 5.415A</p>
<p>2 520 – 2 655MHz</p> <p>FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416</p> <p>5.339 5.405 5.412 5.417C 5.417D 5.418B 5.418C</p>	<p>2 520 – 2 655MHz</p> <p>FIXED 5.410 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416</p> <p>5.339 5.417C 5.417D 5.418B 5.418C</p>	<p>2 520 – 2 535MHz</p> <p>FIXED 5.410 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416</p> <p>5.403 5.414A 5.415A</p> <hr/> <p>2 535 – 2 655MHz</p> <p>FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416</p> <p>5.339 5.417A 5.417B 5.417C 5.417D 5.418 5.418A 5.418B 5.418C</p>
<p>2 655 – 2 670MHz</p> <p>FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.208B 5.413 5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)</p> <p>5.149 5.412</p>	<p>2 655 – 2 670MHz</p> <p>FIXED 5.410 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)</p> <p>5.149 5.208B</p>	<p>2 655 – 2 670MHz</p> <p>FIXED 5.410 FIXED-SATELLITE (Earth-to-space) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)</p> <p>5.149 5.208B 5.420</p>

Allocation to United Kingdom Services	Comments
<p>2670-2690 MHz</p> <p>FIXED 5.410 UK96</p> <p>MOBILE 5.384A</p> <p>MOBILE-SATELLITE (Earth to space) 5.351A</p> <p>Earth Exploration-Satellite (passive)</p> <p>Space Research (passive)</p> <p>Radio Astronomy UK10</p> <p>5.149 UK1, 11, 27, 199, 200</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK96 In accordance with 5.410 new tropospheric scatter systems will not be developed in the band 2500-2690 MHz.</p> <p>UK199 The band 2500-2690 MHz has been identified for award by Ofcom by auction – see General Note 4.2, c).</p> <p>UK200 Commission Decision 2008/477/EC (harmonisation of 2500-2690 MHz for electronic communications services) applies.</p>
<p>2690-2700 MHz</p> <p>EARTH EXPLORATION-SATELLITE (passive)</p> <p>RADIO ASTRONOMY UK10</p> <p>SPACE RESEARCH (passive)</p> <p>5.340 UK1, 11</p>	
<p>2700-2900 MHz</p> <p>AERONAUTICAL</p> <p>RADIONAVIGATION 5.337 UK97</p> <p>Radiolocation</p> <p>5.423 UK4, 11, 213</p>	<p>UK4.45 2700-2900 MHz – CAA/MoD (for the Aeronautical Radionavigation service)</p> <p>UK97 Limited to meteorological and military radars only.</p> <p>UK213 Services operating in the band 2700-3100 MHz are subject to coordination with CAA and MoD, and also MCA in the band 2900-3100 MHz.</p>
<p>2900-3100 MHz</p> <p>RADIOLOCATION 5.424A UK5.28</p> <p>RADIONAVIGATION 5.426 UK5.28, 184</p> <p>5.425, 5.427 UK2, 11, 99a, 213</p>	<p>UK5.28 2900-3100 MHz – MoD (for the Radiolocation service).</p> <p>2900-3100 MHz – CAA/MoD/MCA (for the Radionavigation service)</p> <p>UK99a The use of 3100 MHz for the calibration of EMC equipment by MoD is permitted NIB to other users.</p> <p>UK184 Ofcom may licence stations in the Maritime Radionavigation service in this band.</p> <p>UK213 Services operating in the band 2700-3100 MHz are subject to coordination with CAA and MoD, and also MCA in the band 2900-3100 MHz.</p>
<p>3100-3300 MHz</p> <p>RADIOLOCATION UK5.29</p> <p>Earth Exploration-Satellite (active)</p> <p>Space Research (active)</p> <p>5.149 UK2, 11, 99, 100</p>	<p>UK5.29 3100-3300 MHz –MoD (for the Radiolocation service).</p> <p>UK99 The use of 3100 MHz for the calibration of EMC equipment by MoD is permitted NIB to other users.</p> <p>UK100 Within the band 3200-3300 MHz MDM equipment employed in the dynamic (mobile) role may be used on NIB and subject to prior co-ordination between Ofcom and MoD.</p>

Region 1	Region 2	Region 3
<p>2 670 – 2 690MHz</p> <p>FIXED 5.410 MOBILE except aeronautical mobile 5.384A Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)</p> <p>5.149 5.412</p>	<p>2 670 – 2 690MHz</p> <p>FIXED 5.410 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.208B 5.415 MOBILE except aeronautical mobile 5.384A Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)</p> <p>5.149</p>	<p>2 670 – 2 690MHz</p> <p>FIXED 5.410 FIXED-SATELLITE (Earth-to-space) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (Earth-to-space) 5.351A 5.419 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive)</p> <p>5.149</p>
<p>2 690 – 2 700MHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 5.422</p>		
<p>2 700 – 2 900MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation</p> <p>5.423 5.424</p>		
<p>2 900 – 3 100MHz</p> <p>RADIOLOCATION 5.424A RADIONAVIGATION 5.426</p> <p>5.425 5.427</p>		
<p>3 100 – 3 300MHz</p> <p>RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active)</p> <p>5.149 5.428</p>		

Allocation to United Kingdom Services	Comments
3300-3400 MHz RADIOLOCATION 5.149 UK2, 11	
3400-3600 MHz MOBILE 5.430A RADIOLOCATION Amateur 5.431 UK2, 3.22, 11, 27, 150, 201 UK 5 UK5, 7	UK5 3400-3410 MHz – MoD (for the Radiolocation service); 3400-3475 MHz – Ofcom (for the Amateur service). UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK150 3480-3500 MHz and 3580-3600 MHz – Ofcom for Fixed Wireless Access until 2017. UK201 Commission Decision 2008/411/EC (Wireless Electronic Communication Services) applies.
3600 - 4200 MHz FIXED FIXED-SATELLITE (space to Earth) Mobile UK102 UK1, 11, 201	UK102 This Fixed-Satellite allocation is intended mainly for civil systems. UK201 Commission Decision 2008/411/EC (Wireless Electronic Communication Services) applies.
4200 - 4400 MHz AERONAUTICAL RADIONAVIGATION 5.438 5.440 UK4.46, 11	UK4.46 4200-4400 MHz – CAA/MoD
4400 - 4500 MHz FIXED MOBILE UK104 UK104 UK2, 11	UK104 Includes tropospheric scatter

Region 1	Region 2	Region 3
3 300 – 3 400MHz RADIOLOCATION 5.149 5.429 5.430	3 300 – 3 400MHz RADIOLOCATION Amateur Fixed Mobile 5.149 5.430	3 300 – 3 400MHz RADIOLOCATION Amateur 5.149 5.429
3 400 – 3 600MHz FIXED FIXED-SATELLITE (space-to-Earth) Mobile 5.430A Radiolocation 5.431	3 400 – 3 500MHz FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile 5.431A Radiolocation 5.433 5.282	3 400 – 3 500MHz FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile 5.432B Radiolocation 5.433 5.282 5.432 5.432A
	3 500 – 3 700MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433	3 500 – 3 600MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.433A Radiolocation 5.433
3 600 – 4 200MHz FIXED FIXED-SATELLITE (space-to-Earth) Mobile	3 600 – 3 700MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433 5.435	
	3 700 – 4 200MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	
4 200 – 4 400MHz AERONAUTICAL RADIONAVIGATION 5.438 5.439 5.440		
4 400 – 4 500MHz FIXED MOBILE 5.440A		

Allocation to United Kingdom Services	Comments
4500 - 4800 MHz FIXED UK104 FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE UK104 UK2, 10, 11	UK104 Includes tropospheric scatter
4800 - 4990 MHz FIXED UK 104 MOBILE 5.442 Radio Astronomy UK10 5.149, 5.339 UK2, 11	UK104 Includes tropospheric scatter
4990 - 5000 MHz FIXED MOBILE 5.442 RADIO ASTRONOMY UK5.31, 10 5.149 UK2, 11	UK5.31 Ofcom – for the Radio Astronomy service.
5000 - 5010 MHz AERONAUTICAL RADIONAVIGATION UK212 RADIONAVIGATION-SATELLITE (Earth-to-space) 5.367, UK4.47, 11	UK4.47 5000-5010 MHz – CAA/MoD (for the Aeronautical Radionavigation service) 5000-5010 MHz – Ofcom (for the Radionavigation-Satellite service). UK212 All aeronautical assignments in this band are undertaken by the CAA.
5010 – 5030 MHz AERONAUTICAL RADIONAVIGATION UK212 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B 5.367 UK4.48, 11	UK4.48 5010-5030 MHz – CAA/MoD MoD (for the Aeronautical Radionavigation service) 5010-5030 MHz – Ofcom (for the Radionavigation-Satellite service). UK212 All aeronautical assignments in this band are undertaken by the CAA.
5030 - 5091 MHz AERONAUTICAL RADIONAVIGATION UK212 5.367, 5.444, 5.444A UK4.49, 11	UK4.49 5030-5091 MHz – CAA/MoD. UK212 All aeronautical assignments in this band are undertaken by the CAA.
5091 - 5150 MHz AERONAUTICAL RADIONAVIGATION UK212 AERONAUTICAL MOBILE 5.444B 5.367, 5.444, 5.444A UK4.50, 11	UK4.50 5091-5150 MHz – CAA/MoD. UK212 All aeronautical assignments in this band are undertaken by the CAA.

Region 1	Region 2	Region 3
4 500 – 4 800MHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE 5.440A		
4 800 – 4 990MHz FIXED MOBILE 5.440A 5.442 Radio Astronomy 5.149 5.339 5.443		
4 990 – 5 000MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space Research (passive) 5.149		
5 000 – 5 010MHz AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space) 5.367		
5 010 – 5 030MHz AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B 5.367		
5 030 – 5 091MHz AERONAUTICAL RADIONAVIGATION 5.367 5.444		
5 091 – 5 150MHz AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE 5.444B 5.367 5.444 5.444A		

Allocation to United Kingdom Services	Comments
<p>5150-5250 MHz</p> <p>AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE SERVICE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B</p> <p>5.447, 5.447B, 5.447C</p> <p style="text-align: right;">UK4.51, 11, 202</p>	<p>UK4.51 5150-5250 - CAA/MoD (for the Aeronautical Radionavigation service).Ofcom – For the Fixed-Satellite and Mobile except aeronautical mobile services.</p> <p>UK202 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) apply.</p>
<p>5250-5255 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) MOBILE except aeronautical mobile 5.446A</p> <p style="text-align: right;">UK5.32</p> <p>RADIOLOCATION SPACE RESEARCH 5.447D</p> <p>5.448A</p> <p style="text-align: right;">UK5.32</p> <p style="text-align: right;">UK2, 11, 202</p>	<p>UK5.32 5250-5255 MHz - MoD (for the Radiolocation service) 5250–5255 MHz – Ofcom for the Mobile except aeronautical mobile service.</p> <p>UK202 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) apply.</p>
<p>5255-5350 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) MOBILE except aeronautical mobile 5.446A</p> <p style="text-align: right;">UK5.33</p> <p>RADIOLOCATION SPACE RESEARCH (active)</p> <p>5.448A</p> <p style="text-align: right;">UK5.33</p> <p style="text-align: right;">UK2, 11, 202</p>	<p>UK5.33 5255-5350 MHz - MoD (for the Radiolocation service) 5255–5350 MHz – Ofcom for the Mobile service.</p> <p>UK202 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) apply.</p>
<p>5350-5460 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) 5.448B RADIOLOCATION 5.448D SPACE RESEARCH (active) 5.448C</p> <p style="text-align: right;">UK2, 11</p>	
<p>5460 – 5470 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION 5.448D RADIONAVIGATION 5.449 SPACE RESEARCH (active)</p> <p>5.448B</p> <p style="text-align: right;">UK105</p> <p style="text-align: right;">UK2, 11</p>	<p>UK105 The maritime Radionavigation service is limited to shipborne and associated land based radars.</p>

Region 1	Region 2	Region 3
<p>5 150 – 5 250MHz</p> <p>AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B</p> <p>5.446 5.446C 5.447 5.447B 5.447C</p>		
<p>5 250 – 5 255MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F</p> <p>5.447E 5.448 5.448A</p>		
<p>5 255 – 5 350MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F</p> <p>5.447E 5.448 5.448A</p>		
<p>5 350 – 5 460MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) 5.448B RADIOLOCATION 5.448D SPACE RESEARCH (active) 5.448C</p>		
<p>5 460 – 5 470MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION 5.448D RADIONAVIGATION 5.449 SPACE RESEARCH (active)</p> <p>5.448B</p>		

Allocation to United Kingdom Services	Comments
<p>5470-5570 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) MARITIME RADIONAVIGATION UK105 MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B SPACE RESEARCH (active)</p> <p>5.448B, 5.451 UK2, 11, 27, 107, 202</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK105 The maritime Radionavigation service is limited to shipborne and associated land based radars.</p> <p>UK107 MDM equipment may use 5480 MHz and 5570 MHz on a non-interference basis, subject to the prior agreement of the MoD.</p> <p>UK202 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) apply.</p>
<p>5570-5650 MHz</p> <p>MARITIME RADIONAVIGATION UK105 MOBILE except aeronautical mobile 5.446A 5.450A UK5.34 RADIOLOCATION UK106</p> <p>5.451, 5.452 UK2, 11, 27, 107, 202</p>	<p>UK5.34 5570-5650 MHz – Ofcom (for the Mobile except aeronautical mobile service)</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK105 The Maritime Radionavigation service is limited to shipborne and associated land based radars.</p> <p>UK106 Radiolocation is limited to the following: (1) In accordance with 5.452, meteorological radars within 5600-5650 MHz (2) Military radars on a secondary basis.</p> <p>UK107 MDM equipment may use 5480 MHz and 5570 MHz on a non-interference basis, subject to the prior agreement of the MoD.</p> <p>UK202 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) apply.</p>
<p>5650-5725 MHz</p> <p>MOBILE except aeronautical mobile 5.446A 5.450A UK5.35, 108 RADIOLOCATION UK 5.35 Amateur UK5.35, 7 Amateur-Satellite (Earth to space) UK5.35, 7 Space Research (deep space)</p> <p>5.282, 5.451 UK2, 11, 27, 202</p>	<p>UK5.35 MoD (for the Radiolocation service); 5650-5670 MHz - Ofcom (for the Amateur-Satellite service); 5650-5850 MHz - Ofcom (for the Amateur and Mobile services)</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK108 Between 5725 and 5850 MHz the Mobile service is subject to power limitations (see 5.451).</p> <p>UK202 Commission Decisions 2007/90/EC and 2005/513/EC (harmonised use of 5150-5350 MHz and 5470-5725 MHz for WAS/RLANs) apply.</p>

Region 1	Region 2	Region 3
<p>5 470 – 5 570MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B SPACE RESEARCH (active)</p> <p>5.448B 5.450 5.451</p>		
<p>5 570 – 5 650MHz</p> <p>MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B</p> <p>5.450 5.451 5.452</p>		
<p>5 650 – 5 725MHz</p> <p>MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION Amateur Space Research (deep space)</p> <p>5.282 5.451 5.453 5.454 5.455</p>		

Allocation to United Kingdom Services	Comments
<p>5725–5850 MHz</p> <p>FIXED SATELLITE (Earth-to-space) UK5.36 RADIOLOCATION UK 5.36 Amateur UK5.36, 7 Amateur-Satellite (space to Earth) UK5.36, 7 Land Mobile UK5.36, 108</p> <p>5.150, 5.451 UK2, 6, 11, 27, 142, 155a</p>	<p>UK5.36 5725-5850 MHz - MoD (for the Radiolocation service); 5725-5850 MHz – Ofcom (for the Amateur and Land Mobile services) 5830-5850 MHz – Ofcom (for the Amateur Satellite service) 5725-5850 MHz – Ofcom (for the Fixed Satellite service).</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK108 Between 5725 and 5850 MHz the Land Mobile service is subject to power limitations (see 5.451).</p> <p>UK142 Radio Telematics devices operate in the bands 5795-5805 MHz and 5805-5815 MHz.</p> <p>UK155a Ofcom - Low power level and flow detection systems operate in the bands 5765-5835 MHz.</p>
<p>5850-5925 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) MOBILE</p> <p>5.150 UK1, 6, 11, 27, 111, 203</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK111 Existing MoD Radiolocation systems may continue to operate NIB to essential civil services in accordance with T(F)(N)(80)5.</p> <p>UK203 Commission Decision 2008/671/EC (harmonised spectrum at 5875-5905 MHz for safety related ITS) applies.</p>
<p>5925-6700 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.457A MOBILE</p> <p>5.149, 5.440, 5.458 UK1, 10, 11, 111</p>	<p>UK111 Existing MoD Radiolocation systems may continue to operate NIB to essential civil services in accordance with T(F)(N)(80)5.</p>
<p>6700-7075 MHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.441 MOBILE</p> <p>5.458, 5.458A, 5.458B, 5.458C UK1, 11, 111, 143</p>	<p>UK111 Existing MoD Radiolocation systems may continue to operate NIB to essential civil services in accordance with T(F)(N)(80)5.</p> <p>UK143 Electronic warfare calibration facilities operate on 7000 MHz.</p>

Region 1	Region 2	Region 3
5 725 – 5 830MHz FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur 5.150 5.451 5.453 5.455 5.456	5 725 – 5 830MHz RADIOLOCATION Amateur 5.150 5.453 5.455	
5 830 – 5 850MHz FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-Satellite (space-to-Earth) 5.150 5.451 5.453 5.455 5.456	5 830 – 5 850MHz RADIOLOCATION Amateur Amateur-Satellite (space-to-Earth) 5.150 5.453 5.455	
5 850 – 5 925MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.150	5 850 – 5 925MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Amateur Radiolocation 5.150	5 850 – 5 925MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation 5.150
5 925 – 6 700MHz FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.457C 5.149 5.440 5.458		
6 700 – 7 075MHz FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE 5.458 5.458A 5.458B 5.458C		

Allocation to United Kingdom Services	Comments
<p>7075-7145 MHz</p> <p>FIXED MOBILE</p> <p>5.458 UK 1, 11, 27, 99b</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK99b The use of the band 7075–7110 MHz for the calibration of EMC equipment by MoD is permitted NIB to other users.</p>
<p>7145-7235 MHz</p> <p>FIXED MOBILE SPACE RESEARCH (Earth-to-space) 5.460</p> <p>5.458 UK 1, 11, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>7235-7250 MHz</p> <p>FIXED MOBILE</p> <p>5.458 UK 1, 11, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>7250-7300 MHz</p> <p>FIXED-SATELLITE (space to Earth) MOBILE-SATELLITE (space to Earth)</p> <p>5.461 UK 2, 11, 112</p>	<p>UK112 The Fixed-Satellite and Mobile-Satellite allocations are intended for military systems. Mobile-Satellite systems, which will normally be confined to 7250-7300 MHz, are to be used in accordance with 5.461</p>
<p>7300-7450 MHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE except aeronautical mobile</p> <p>5.461 UK1, 11, 27, 112</p>	<p>UK5.37 7300-7450 MHz – MoD (for the Fixed-Satellite service).</p> <p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p> <p>UK112 The Fixed-Satellite and Mobile-Satellite allocations are intended for military systems. Mobile-Satellite systems, which will normally be confined to 7250-7300 MHz, are to be used in accordance with 5.461</p>
<p>7450-7550 MHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE except aeronautical mobile METEOROLOGICAL-SATELLITE</p> <p>5.461A UK1, 11</p>	<p>UK5.38 7450-7550 MHz – MoD (for the Fixed-Satellite service).</p> <p>UK114 The Meteorological-satellite service is limited to 7450-7550 MHz.</p>

Region 1	Region 2	Region 3
7 075 – 7 145MHz FIXED MOBILE 5.458 5.459		
7 145 – 7 235MHz FIXED MOBILE SPACE RESEARCH (Earth-to-space) 5.460 5.458 5.459		
7 235 – 7 250MHz FIXED MOBILE 5.458		
7 250 – 7 300MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 5.461		
7 300 – 7 450MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461		
7 450 – 7 550MHz FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461A		

Region 1	Region 2	Region 3
<p>7 550 – 7 750MHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile</p>		
<p>7 750 – 7 850MHz</p> <p>FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B MOBILE except aeronautical mobile</p>		
<p>7 850 – 7 900MHz</p> <p>FIXED MOBILE except aeronautical mobile</p>		
<p>7 900 – 8 025MHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) MOBILE</p> <p>5.461</p>		
<p>8 025 – 8 175MHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463</p> <p>5.462A</p>		

Allocation to United Kingdom Services	Comments
8175-8215 MHz FIXED FIXED-SATELLITE (Earth to space) METEOROLOGICAL-SATELLITE (Earth to space) UK116 MOBILE SATELLITE (Earth to space) MOBILE 5.463 5.462A UK2, 11, 155b	UK116 The Meteorological-Satellite service is limited to 8175-8215 MHz. UK155b Ofcom - Low power level and flow detection systems operate in the bands 8100-8340 MHz.
8215-8400 MHz FIXED FIXED-SATELLITE (Earth to space) MOBILE SATELLITE (Earth to space) 5.462A UK2, 11, 3.23, 155b	UK155b Ofcom - Low power level and flow detection systems operate in the band 8100-8340 MHz.
8400-8500 MHz FIXED UK188 SPACE RESEARCH (space to Earth) 5.465 UK1, 11, 3.24, 10, 27, 155c	UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz. UK188 Residual MoD services.
8500-8550 MHz RADIOLOCATION UK2, 11, 155c	UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.
8550-8650 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.469A UK2, 11, 155c	UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.
8650-8750 MHz RADIOLOCATION UK2, 11, 155c	UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.
8750-8850 MHz RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470 UK2, 11, 155c	UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.
8850-9000 MHz MARITIME RADIONAVIGATION 5.472 RADIOLOCATION 5.472 UK2, 11, 155c	UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.

Region 1	Region 2	Region 3
<p>8 175 – 8 215MHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 5.463</p> <p>5.462A</p>		
<p>8 215 – 8 400MHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463</p> <p>5.462A</p>		
<p>8 400 – 8 500MHz</p> <p>FIXED 5.486 MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) 5.465 5.466</p>		
<p>8 500 – 8 550MHz</p> <p>RADIOLOCATION</p> <p>5.468 5.469</p>		
<p>8 550 – 8 650MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)</p> <p>5.468 5.469 5.469A</p>		
<p>8 650 – 8 750MHz</p> <p>RADIOLOCATION</p> <p>5.468 5.469</p>		
<p>8 750 – 8 850MHz</p> <p>RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470</p> <p>5.471</p>		
<p>8 850 – 9 000MHz</p> <p>RADIOLOCATION MARITIME RADIONAVIGATION 5.472</p> <p>5.473</p>		

Allocation to United Kingdom Services	Comments
<p>9000-9200 MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION</p> <p>5.473A UK4.52, 11, 119, 155c, 214</p>	<p>UK4.52 9000-9200 MHz – MoD (for the Radiolocation service) 9000-9200 MHz – CAA/MoD (for the Aeronautical Radionavigation service).</p> <p>UK119 Maritime Radionavigation harbour radars may operate on NIB to Aeronautical Radionavigation by special agreement.</p> <p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>UK214 Services operating in the bands 9000-9200 and 9300-9500 MHz are subject to coordination with CAA and MoD.</p>
<p>9200-9300 MHz</p> <p>RADIOLOCATION MARITIME RADIONAVIGATION 5.472 UK120, 184</p> <p>5.474 UK2, 11, 12, 155c, 214</p>	<p>UK120 Maritime Radionavigation is for shipborne radar and RACONS with harbour radars by special arrangement.</p> <p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>UK184 Ofcom may licence stations in the Maritime Radionavigation service in this band.</p> <p>UK214 Services operating in the bands 9000-9200 and 9300-9500 MHz are subject to coordination with CAA and MoD.</p>
<p>9300–9500 MHz</p> <p>RADIONAVIGATION UK120, 184 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION</p> <p>5.427, 5.474, 5.475 5.475A 5.475B 5.476A UK 4.53, 11, 12, 122, 155c</p>	<p>UK4.53 9300-9500 MHz – CAA/MoD (for the Radionavigation service).</p> <p>UK120 Maritime Radionavigation is for shipborne radar and RACONS with harbour radars by special arrangement.</p> <p>UK122 MDM equipment may use 9325 MHz and 9480 MHz on a non-interference basis.</p> <p>UK155c Ofcom - Low power level and flow detection systems operate in the band 8460-9400 MHz.</p> <p>UK184 Ofcom may licence stations in the Maritime Radionavigation service in this band.</p>
<p>9500-9800 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)</p> <p>5.476A, UK2, 11, 155d</p>	<p>UK155d Ofcom - Low power level and flow detection systems operate in the bands 9500-10250 MHz.</p>
<p>9800-9900 MHz</p> <p>RADIOLOCATION Earth Exploration-Satellite (active). Space Research (active).</p> <p>5.478A 5.478B UK2, 11, 155d</p>	<p>UK155d Ofcom - Low power level and flow detection systems operate in the bands 9500-10250 MHz.</p>

Region 1	Region 2	Region 3
<p>9 000 – 9 200MHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION</p> <p>5.471 5.473A</p>		
<p>9 200 – 9 300MHz</p> <p>RADIOLOCATION MARITIME RADIONAVIGATION 5.472</p> <p>5.473 5.474</p>		
<p>9 300 – 9 500MHz</p> <p>RADIONAVIGATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION</p> <p>5.427 5.474 5.475 5.475A 5.475B 5.476A</p>		
<p>9 500 – 9 800MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION SPACE RESEARCH (active)</p> <p>5.476A</p>		
<p>9 800 – 9 900MHz</p> <p>RADIOLOCATION Earth Exploration-Satellite (active). Space Research (active). Fixed</p> <p>5.477 5.478 5.478A 5.478B</p>		

Allocation to United Kingdom Services	Comments
9900-10000 MHz RADIOLOCATION 5.479 UK2, 11, 155d	UK155d Ofcom - Low power level and flow detection systems operate in the bands 9500-10250 MHz.
10.00-10.125 GHz MOBILE RADIOLOCATION Amateur 5.479 UK5.40 UK5.40 UK5.40, 7 UK2, 11, 155d	UK5.40 10.00-10.125 GHz – MoD (for the Mobile and Radiolocation services); 10.00-10.125 GHz – Ofcom (for the Amateur Service) UK155d Ofcom – Low power level and flow detection systems operate in the bands 9500-10 250 MHz.
10.125-10.225 GHz FIXED MOBILE RADIOLOCATION UK 5.41 UK 5.41 UK2, 11, 155d, 204	UK5.41 10.125-10.225 GHz – MoD (for the Mobile and Radiolocation services). UK155d Ofcom – Low power level and flow detection systems operate in the bands 9.50-10.25 GHz and 10.4-10.5 GHz. UK204 The band 10.125-10.225 GHz has been awarded by Ofcom by auction – see General Note 4.2, c).
10.225-10.45 GHz MOBILE RADIOLOCATION Amateur 5.479 UK5.42 UK5.42 UK5.42, 7 UK2, 3.25, 11, 27, 155e	UK5.42 10.225-10.450 GHz – MoD (for the Mobile and Radiolocation services); 10.225-10.475 GHz – Ofcom (for the Amateur Service) 10.300-10.360 GHz – Ofcom (for PMSE). UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK155e Ofcom – Low power level and flow detection systems operate in the bands 9.50-10.25 GHz and 10.4-10.5 GHz.
10.450-10.475 GHz MOBILE RADIOLOCATION Amateur Amateur-Satellite UK5.43 UK5.43 UK5.43, 7 UK5.43, 7 UK2, 3.26, 11, 155e	UK5.43 10.450-10.500 GHz – MoD (for the Mobile and Radiolocation services); 10.225-10.475 GHz – Ofcom (for the Amateur service) 10.450-10.500 GHz – Ofcom (for the Amateur-Satellite service) UK155e Ofcom – Low power level and flow detection systems operate in the bands 9.50-10.25 GHz and 10.4-10.5 GHz.
10.475-10.50 GHz FIXED MOBILE RADIOLOCATION Amateur-satellite UK5.43 UK 5.43 UK5.43, 7 UK2, 11, 155e, 205	UK205 The band 10.475-10.575 GHz has been awarded by Ofcom by auction – see General Note 4.2, c).

Region 1	Region 2	Region 3
9 900 – 10 000MHz RADIOLOCATION Fixed 5.477 5.478 5.479		
10 – 10.45GHz FIXED MOBILE RADIOLOCATION Amateur 5.479	10 – 10.45 RADIOLOCATION Amateur 5.479 5.480	10 – 10.45 FIXED MOBILE RADIOLOCATION Amateur 5.479
10.45 – 10.5GHz RADIOLOCATION Amateur Amateur-Satellite 5.481		

Allocation to United Kingdom Services	Comments
10-50-10-55 GHz FIXED MOBILE Radiolocation UK123 UK1, 11, 205	UK123 The Radiolocation service is limited to: (1) Civil low power devices in the sub-band 10-577-10-597 GHz; and (2) Military low power devices (subject to prior co-ordination with Ofcom) in the sub-band 10-5-10-6 GHz. (3) Subject to prior co-ordination with Ofcom, MoD Doppler radar may operate in the band 10-50-10-60 GHz.
10-55-10-60 GHz FIXED MOBILE except aeronautical mobile Radiolocation UK123 UK1, 11, 205	UK205 The band 10-475-10-575 GHz has been awarded by Ofcom by auction – see General Note 4.2, c).
10-60-10-68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation UK126 5.149, 5.482 5.482A UK1, 10, 11	UK126 The Radiolocation service is limited to devices for indoor use only in the sub-band 10-675-10-699 GHz
10-68-10-70 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation UK126 5.340 UK1, 10, 11	UK126 The Radiolocation service is limited to devices for indoor use only in the sub-band 10-675-10-699 GHz .
10-70-11-70 GHz FIXED FIXED-SATELLITE (space to Earth) 5.441 (Earth to space) 5.484 MOBILE except aeronautical mobile UK 101 5.441 UK1, 143	UK143 Electronic warfare calibration facilities operate on 11-0 and 11-5 GHz.

Region 1	Region 2	Region 3
10.5 – 10.55GHz FIXED MOBILE Radiolocation	10.5 – 10.55 FIXED MOBILE RADIOLOCATION	
10.55 – 10.6GHz FIXED MOBILE except aeronautical mobile Radiolocation		
10.6 – 10.68GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.149 5.482 5.482A		
10.68 – 10.7GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.483		
10.7 – 11.7GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441, 5.484A (Earth-to-space) 5.484 MOBILE except aeronautical mobile	10.7 – 11.7GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A MOBILE except aeronautical mobile	

Region 1	Region 2	Region 3
11·7 – 12·5GHz FIXED BROADCASTING BROADCASTING-SATELLITE MOBILE except aeronautical mobile 5.487 5.487A	11·7 – 12·1GHz FIXED 5.486 FIXED-SATELLITE (space-to-Earth) 5.484A 5.488 Mobile except aeronautical mobile 5.485	11·7 – 12·2GHz FIXED BROADCASTING BROADCASTING-SATELLITE MOBILE except aeronautical mobile 5.492 5.487 5.487A
	12·1 – 12·2GHz FIXED-SATELLITE 5.484A 5.488 (space-to-Earth) 5.485 5.489	
	12·2 – 12·7GHz FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492 5.487A, 5.488 5.490	
12·5 – 12·75GHz FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.494 5.495 5.496	12·7 – 12·75 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE except aeronautical mobile	12·5 – 12·75 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A MOBILE except aeronautical mobile BROADCASTING SATELLITE 5.493
12·75 – 13·25GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space Research (deep space) (space-to-Earth)		
13·25 – 13·4GHz EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A 5.499		

Allocation to United Kingdom Services	Comments
<p>13.40-13.75 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.501A Standard Frequency and Time Signal – Satellite (Earth to space)</p> <p>5.501B UK2, 11</p>	
<p>13.75-14.00 GHz</p> <p>FIXED-SATELLITE (Earth to space) UK187 5.484A RADIOLOCATION Earth Exploration-Satellite Standard Frequency and Time Signal – Satellite (Earth to space) Space Research</p> <p>5.502, 5.503 UK4.55, 11</p>	<p>UK4.55 13.4-14.0 GHz – MoD – for the Radiolocation service. 13.75-14.00 GHz - Ofcom – For the Fixed-Satellite Service</p> <p>UK187 Earth stations in a geostationary-satellite network in the fixed-satellite service with an antenna diameter greater than or equal to 1.2 metres and less than 4.5 metres shall operate on a non-interference basis with respect to maritime Radiolocation stations.</p>
<p>14.00–14.25 GHz</p> <p>FIXED-SATELLITE (Earth to space) 5.457A, 5.484A, RADIONAVIGATION 5.504 Mobile-Satellite (Earth-to-space) 5.506A Space Research</p> <p>5.504A UK1</p>	
<p>14.25-14.3 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) MOBILE except aeronautical mobile RADIONAVIGATION 5.504 Mobile-Satellite (Earth-to-space) 5.506A 5.508A Space Research</p> <p>5.504A, 5.508, 5.509 UK1</p>	
<p>14.3-14.4 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.457A, 5.484A MOBILE except aeronautical mobile Mobile-Satellite (Earth-to-space) 5.506A 5.509A Radionavigation-Satellite</p> <p>5.504A UK1</p>	

Region 1	Region 2	Region 3
<p>13.4 – 13.75GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.501A Standard Frequency and Time Signal-Satellite (Earth-to-space)</p> <p>5.499 5.500 5.501 5.501A 5.501B</p>		
<p>13.75 – 14GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION Earth Exploration-Satellite Standard Frequency and Time Signal-Satellite (Earth-to-space) Space Research</p> <p>5.499 5.500 5.501 5.502 5.503</p>		
<p>14 – 14.25GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B RADIONAVIGATION 5.504 Mobile-Satellite (Earth-to-space) 5.504B 5.504C 5.506A Space Research</p> <p>5.504A 5.505</p>		
<p>14.25 – 14.3GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B RADIONAVIGATION 5.504 Mobile-Satellite (Earth-to-space) 5.504B 5.506A 5.508A Space Research</p> <p>5.504A 5.505 5.508 5.509</p>		
<p>14.3 – 14.4GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-Satellite (Earth-to- space) 5.504B 5.506A 5.509A Radionavigation-Satellite</p> <p>5.504A</p>	<p>14.3 – 14.4GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.484A 5.506 5.506B Mobile-Satellite (Earth-to- space) 5.506A Radionavigation-Satellite</p> <p>5.504A</p>	<p>14.3 – 14.4GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-Satellite (Earth-to- space) 5.504B 5.506A 5.509A Radionavigation-Satellite</p> <p>5.504A</p>

Allocation to United Kingdom Services	Comments
14.40-14.47 GHz FIXED FIXED-SATELLITE (Earth to space) 5.457A, 5.484A MOBILE except aeronautical mobile Space Research (space to Earth) Mobile-Satellite (Earth-to-space) 5.506A 5.509A Space Research (space-to-Earth) 5.504A UK1	
14.47-14.50 GHz FIXED FIXED-SATELLITE(Earth to space) 5.457A, 5.484A MOBILE except aeronautical mobile. Mobile-Satellite (Earth-to-space) 5.504B 5.506A 5.509A Radio Astronomy. UK 10 5.149, 5.504A UK1	
14.50-14.62 GHz FIXED UK101 MOBILE Space Research UK 1	
14.62-15.23 GHz FIXED MOBILE 5.339 UK 2	
15.23-15.35 GHz FIXED UK101 MOBILE 5.339 UK 1	UK101 The allocation is for civil communications including national defence circuits operated by public telecommunications operators.
15.35–15.40 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive) 5.340 UK1	
15.40-15.43 GHz AERONAUTICAL RADIONAVIGATION 5.511D UK4.56	UK4.56 15.4-15.43 GHz – CAA/MoD

Region 1	Region 2	Region 3
<p>14.4 – 14.47GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-Satellite (Earth-to-space) 5.504B 5.506A 5.509A Space Research (space-to-Earth)</p> <p>5.504A</p>		
<p>14.47 – 14.5GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-Satellite (Earth-to-space) 5.504B 5.506A 5.509A Radio Astronomy</p> <p>5.149 5.504A</p>		
<p>14.5 – 14.8GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space Research</p>		
<p>14.8 – 15.35GHz</p> <p>FIXED MOBILE Space Research</p> <p>5.339</p>		
<p>15.35 – 15.4GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 5.511</p>		
<p>15.4 – 15.43GHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.511D</p>		

Allocation to United Kingdom Services	Comments
15.43-15.63 GHz AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (space-to-Earth) 5.511A, 5.511C UK4.57	UK4.57 15.43-15.63 GHz – CAA/MoD (for the Aeronautical Radionavigation service) 15.43-15.63 GHz – Ofcom (for the Fixed-Satellite service).
15.63-15.70 GHz AERONAUTICAL RADIONAVIGATION 5.511C UK4.58	UK4.58 15.63-15.7 GHz – CAA/MoD
15.70–16.60 GHz RADIOLOCATION UK2	
16.60–17.10 GHz RADIOLOCATION Space Research (deep space) (Earth-to-space) UK2	
17.10–17.20 GHz RADIOLOCATION UK2, 11	
17.20–17.30 GHz EARTH EXPLORATION-SATELLITE (active) MOBILE RADIOLOCATION SPACE RESEARCH (active) 5.513A UK2, 11	
17.30–17.70 GHz FIXED-SATELLITE (Earth to space) 5.516 (space to Earth) 5.516A 5.516B FIXED Radiolocation UK131 UK 5.44 UK1	UK5.44 17.3-17.7 GHz –MoD (for the Radiolocation service). UK131 Legacy Point-to-Point systems operate in this band.

Region 1	Region 2	Region 3
<p>15.43 – 15.63GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.511A AERONAUTICAL RADIONAVIGATION 5.511C</p>		
<p>15.63 – 15.7GHz</p> <p>AERONAUTICAL RADIONAVIGATION 5.511D</p>		
<p>15.7 – 16.6GHz</p> <p>RADIOLOCATION 5.512 5.513</p>		
<p>16.6 – 17.1GHz</p> <p>RADIOLOCATION Space Research (deep space) (Earth-to-space) 5.512 5.513</p>		
<p>17.1 – 17.2GHz</p> <p>RADIOLOCATION 5.512 5.513</p>		
<p>17.2 – 17.3GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.512 5.513 5.513A</p>		
<p>17.3 – 17.7GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.516 (space to Earth) 5.516A 5.516B Radiolocation 5.514</p>	<p>17.3 – 17.7GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.516 BROADCASTING-SATELLITE Radiolocation 5.514 5.515</p>	<p>17.3 – 17.7GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.516 Radiolocation 5.514</p>

Allocation to United Kingdom Services	Comments
<p>17.7-18.10 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.516 (space to Earth 5.484A</p> <p style="text-align: right;">UK1</p>	
<p>18.10-18.40 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.520 (space to Earth) 5.484A 5.516B</p> <p>5.519</p> <p style="text-align: right;">UK1</p>	
<p>18.40-18.60 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) 5.484A, 5.516B</p> <p style="text-align: right;">UK1</p>	
<p>18.60-18.80 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive). FIXED FIXED-SATELLITE (space to Earth) 5.522B Space Research (passive)</p> <p>5.522A</p> <p style="text-align: right;">UK1</p>	
<p>18.80-19.30 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) 5.516B, 5.523A</p> <p style="text-align: right;">UK1, 99c</p>	<p>UK99c The use of 19.0 GHz for the calibration of EMC equipment by MoD is permitted NIB to other users.</p>

Region 1	Region 2	Region 3
<p>17.7 – 18.1GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516</p> <p>MOBILE</p>	<p>17.7 – 17.8GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.517 (Earth-to-space) 5.516</p> <p>BROADCASTING-SATELLITE Mobile</p> <p>5.515</p> <hr/> <p>17.8 – 18.1GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516</p> <p>MOBILE</p> <p>5.519</p>	<p>17.7 – 18.1GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516</p> <p>MOBILE</p>
<p>18.1 – 18.4GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520</p> <p>MOBILE</p> <p>5.519 5.521</p>		
<p>18.4 – 18.6GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B</p> <p>MOBILE</p>		
<p>18.6 – 18.8GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive).</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.522B</p> <p>MOBILE except aeronautical mobile Space Research (passive)</p> <p>5.522A 5.522C</p>	<p>18.6 – 18.8GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive)</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.522B</p> <p>MOBILE except aeronautical mobile SPACE RESEARCH (passive)</p> <p>5.522A</p>	<p>18.6 – 18.8GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive).</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.522B</p> <p>MOBILE except aeronautical mobile Space Research (passive)</p> <p>5.522A</p>
<p>18.8 – 19.3GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.523A</p> <p>MOBILE</p>		

Allocation to United Kingdom Services	Comments
19.30-19.70 GHz FIXED FIXED-SATELLITE (Earth to space) (space to Earth) 5.523B, 5.523C, 5.523D, 5.523E. UK1, 99	UK99c The use of 19.0 GHz for the calibration of EMC equipment by MoD is permitted NIB to other users.
19.70-20.10 GHz FIXED-SATELLITE (space to Earth) 5.484A, 5.516B Mobile-Satellite (space to Earth) UK 1	
20.10-20.20 GHz FIXED-SATELLITE (space to Earth) 5.484A, 5.516B MOBILE-SATELLITE (space-to-Earth) 5.525 5.526 5.527 5.528 UK 1	
20.2-21.2 GHz FIXED-SATELLITE (space to Earth) MOBILE-SATELLITE (space to Earth) UK 2	
21.2-21.4 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) UK 1	
21.4-22.0 GHz FIXED MOBILE BROADCASTING-SATELLITE 5.347A, 5.530 UK 1, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.

Region 1	Region 2	Region 3
<p>19.3 – 19.7GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E MOBILE</p>		
<p>19.7 – 20.1GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-Satellite (space-to-Earth)</p> <p>5.524</p>	<p>19.7 – 20.1GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE-SATELLITE (space-to-Earth)</p> <p>5.524 5.525 5.526 5.527 5.528 5.529</p>	<p>19.7 – 20.1GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-Satellite (space-to-Earth)</p> <p>5.524</p>
<p>20.1 – 20.2GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE-SATELLITE (space-to-Earth)</p> <p>5.524 5.525 5.526 5.527 5.528</p>		
<p>20.2 – 21.2GHz</p> <p>FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard Frequency and Time Signal (space-to-Earth)</p> <p>5.524</p>		
<p>21.2 – 21.4GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>		
<p>21.4 – 22GHz</p> <p>FIXED MOBILE BROADCASTING-SATELLITE 5.347A 5.530</p>	<p>21.4 – 22GHz</p> <p>FIXED MOBILE</p>	<p>21.4 – 22GHz</p> <p>FIXED MOBILE BROADCASTING-SATELLITE 5.347A 5.530</p> <p>5.531</p>

Allocation to United Kingdom Services	Comments
22.00–22.21 GHz FIXED MOBILE except aeronautical mobile RADIOASTRONOMY SPACE RESEARCH 5.149 UK 1, 10, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
22.21–22.50 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149, 5.532 UK 1, 10, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
22.50–22.55 GHz FIXED MOBILE UK 1, 10, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
22.55–23.00 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 UK1, 10, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
23.00–23.55 GHz FIXED INTER-SATELLITE 5.338A MOBILE except aeronautical mobile Radio Astronomy 5.149 UK1, 10, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
23.55–23.60 GHz FIXED MOBILE UK1, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
23.60–24.00 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive) 5.340 UK1, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.

Region 1	Region 2	Region 3
<p>22 – 22.21GHz</p> <p>FIXED MOBILE except aeronautical mobile</p> <p>5.149</p>		
<p>22.21 – 22.5GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.149 5.532</p>		
<p>22.5 – 22.55GHz</p> <p>FIXED MOBILE</p>		
<p>22.55 – 23.55GHz</p> <p>FIXED INTER-SATELLITE 5.338A MOBILE</p> <p>5.149</p>		
<p>23.55 – 23.6GHz</p> <p>FIXED MOBILE</p>		
<p>23.6 – 24GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p>		

Allocation to United Kingdom Services	Comments
24.00-24.05 GHz AMATEUR AMATEUR-SATELLITE 5.150 UK1, 6, 7, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
24.05-24.25 GHz RADIOLOCATION Amateur 5.150 UK133 UK1, 6, 7, 11, 206	UK133 Civil low power devices in the Radiolocation service are limited to: - 1. Ofcom/SG applications between 24.05-24.15 GHz; 2. Portable and fixed applications between 24.15-24.25 GHz; 3. Mobile applications between 24.25-24.35 GHz on a NIB to the Radiolocation service. Power flux density at 10 metres from the system antenna in the direction of maximum radiation is not to exceed 1.5 mW/square metre without NFPG approval. UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
24.25-24.5 GHz FIXED UK99d UK1, 11, 27, 133, 160, 206	UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H. UK99d MoD - 24.27 GHz for EMC testing. UK133 Civil low power devices in the Radiolocation service are limited to: - 1. Ofcom/SG applications between 24.05-24.15 GHz; 2. Portable and fixed applications between 24.15-24.25 GHz; 3. Mobile applications between 24.25-24.35 GHz on a NIB to the Radiolocation service. Power flux density at 10 metres from the system antenna in the direction of maximum radiation is not to exceed 1.5 mW/square metre without NFPG approval. UK160 Ofcom for ENG/OB unidirectional, temporary fixed links. UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
24.50-24.75 GHz FIXED INTER-SATELLITE UK5.45, 161 UK1, 11, 206	UK5.45 Ofcom – For the Fixed Service. UK161 CEPT T/R 13-02 channel plan. UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.

Region 1	Region 2	Region 3
24 – 24.05GHz AMATEUR AMATEUR-SATELLITE 5.150		
24.05 – 24.25GHz RADIOLOCATION Amateur Earth Exploration-Satellite (active) 5.150		
24.25 – 24.45GHz FIXED	24.25 – 24.45GHz RADIONAVIGATION	24.25 – 24.45GHz RADIONAVIGATION FIXED MOBILE
24.45 – 24.65GHz FIXED INTER-SATELLITE	24.45 – 24.65GHz INTER-SATELLITE RADIONAVIGATION 5.533	24.45 – 24.65GHz FIXED INTER-SATELLITE MOBILE RADIONAVIGATION 5.533
24.65 – 24.75GHz FIXED INTER-SATELLITE	24.65 – 24.75GHz INTER-SATELLITE RADIOLOCATION-SATELLITE (Earth-to-space)	24.65 – 24.75GHz FIXED INTER-SATELLITE MOBILE 5.533

Allocation to United Kingdom Services	Comments
24.75-25.25 GHz FIXED UK 161 UK1, 11, 206	UK161 CEPT T/R 13-02 channel plan UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
25.25-25.50 GHz FIXED MOBILE INTER-SATELLITE 5.536 UK 161 UK1, 11, 206	UK161 CEPT T/R 13-02 channel plan UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
25.5-26.5 GHz EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.536A, 5.536B FIXED MOBILE INTER-SATELLITE 5.536 SPACE RESEARCH (space-to-Earth) 5.536A 5.536C Standard Frequency and Time Signal-Satellite (Earth-to-space) UK 161 UK1, 11, 206	UK161 CEPT T/R 13-02 channel plan UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
26.5-27.0 GHz EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.536A, 5.536B FIXED MOBILE INTER-SATELLITE 5.536 SPACE RESEARCH (space-to-Earth) 5.536A 5.536C Standard Frequency and Time Signal-Satellite (Earth-to-space) UK2, 11, 206	UK206 Commission Decision 2005/50/EC (harmonised use of 24.15 GHz (+/- 2.5 GHz) for Automotive SRR) applies.
27.00-27.50 GHz FIXED MOBILE INTER-SATELLITE 5.536 UK2, 99e	UK99e The use of 27.25 GHz by MoD for the calibration of EMC equipment is permitted NIB to other users.
27.50-28.50 GHz FIXED FIXED-SATELLITE (Earth to space) 5.484A, 5.516B, 5.539, MOBILE 5.538, 5.540 UK1, 207	UK207 Spectrum within this band has been awarded by Ofcom by auction – see General Note 4.2, c).

Region 1	Region 2	Region 3
24.75 – 25.25GHz FIXED	24.75 – 25.25GHz FIXED-SATELLITE (Earth-to-space) 5.535	24.75 – 25.25GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.535 MOBILE
25.25 – 25.5GHz FIXED INTER-SATELLITE 5.536 MOBILE Standard Frequency and Time Signal-Satellite (Earth-to-space)		
25.5 – 27GHz EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (space-to-Earth) 5.536C Standard Frequency and Time Signal-Satellite (Earth-to-space) 5.536A		
27 – 27.5GHz FIXED INTER-SATELLITE 5.536 MOBILE	27 – 27.5GHz FIXED FIXED-SATELLITE (Earth-to-space) INTER-SATELLITE 5.536 5.537 MOBILE	
27.5 – 28.5GHz FIXED 5.537A FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE 5.538 5.540		

Allocation to United Kingdom Services	Comments
28.50-29.10 GHz FIXED FIXED-SATELLITE (Earth to space) 5.484A, 5.516B, 5.523A, 5.539 MOBILE Earth Exploration-Satellite (Earth-to-space) 5.541 5.540 UK1, 207	UK207 Spectrum within this band has been awarded by Ofcom by auction – see General Note 4.2, c).
29.10-29.50 GHz FIXED FIXED-SATELLITE (Earth to space) 5.516B, 5.523C, 5.523E, 5.535A, 5.539, 5.541A MOBILE Earth Exploration-Satellite (Earth-to-space) 5.541 5.540 UK1, 207	UK207 Spectrum within this band has been awarded by Ofcom by auction – see General Note 4.2, c).
29.50-29.90 GHz FIXED-SATELLITE (Earth to space) 5.484A, 5.516B, 5.539 Earth Exploration-Satellite (Earth-to-space) 5.541 Mobile-Satellite (Earth to space) 5.540 UK1	
29.90-30.00 GHz FIXED-SATELLITE (Earth to space) 5.539 MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Earth-to-space) 5.541 5.525, 5.526, 5.527, 5.538, 5.540 UK1	
30.0-31.0 GHz FIXED-SATELLITE (Earth to space) 5.338A MOBILE-SATELLITE (Earth to space) 5.542 UK2	
31.0-31.3 GHz FIXED 5.338A MOBILE Standard Frequency and Time Signal-Satellite (space-to-Earth) Space Research 5.544 5.149 UK1	

Region 1	Region 2	Region 3
<p>28.5 – 29.1GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.523A 5.539 MOBILE Earth Exploration-Satellite (Earth-to-space) 5.541</p> <p>5.540</p>		
<p>29.1 – 29.5GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.516B 5.523C, 5.523E, 5.535A 5.539 5.541A MOBILE Earth Exploration-Satellite (Earth-to-space) 5.541</p> <p>5.540</p>		
<p>29.5 – 29.9GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 Earth Exploration-Satellite (Earth-to-space) 5.541 Mobile-Satellite (Earth-to-space)</p> <p>5.540 5.542</p>	<p>29.5 – 29.9GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Earth-to-space) 5.541</p> <p>5.525 5.526 5.527 5.529 5.540 5.542</p>	<p>29.5 – 29.9GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 Earth Exploration-Satellite (Earth-to-space) 5.541 Mobile-Satellite (Earth-to-space)</p> <p>5.540 5.542</p>
<p>29.9 – 30GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Earth-to-space) 5.541 5.543</p> <p>5.525 5.526 5.527 5.538 5.540 5.542</p>		
<p>30 – 31GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE-SATELLITE (Earth-to-space) Standard Frequency and Time Signal-Satellite (space-to-Earth)</p> <p>5.542</p>		
<p>31 – 31.3GHz</p> <p>FIXED 5.338A 5.543A MOBILE Standard Frequency and Time Signal-Satellite (space-to-Earth) Space Research 5.544 5.545</p> <p>5.149</p>		

Allocation to United Kingdom Services	Comments
31.3-31.5 GHz EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive) 5.340 UK1	
31.5-31.8 GHz FIXED MOBILE EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY UK10 SPACE RESEARCH (passive) 5.149, 5.546 UK1	
31.8-32.0 GHz FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space to Earth) 5.547, 5.548 UK1, 207	UK207 Spectrum within this band has been awarded by Ofcom by auction – see General Note 4.2, c).
32.0-32.3 GHz FIXED 5.547A INTER-SATELLITE RADIONAVIGATION SPACE RESEARCH (deep space) (space to Earth) 5.547, 5.548 UK1, 207	UK207 Spectrum within this band has been awarded by Ofcom by auction – see General Note 4.2, c).
32.3-33.0 GHz FIXED 5.547A INTER-SATELLITE RADIONAVIGATION UK99f 5.547, 5.548 UK1, 207	UK99f The use of 32.6 GHz by the MoD to calibrate EMC equipment is permitted NIB to other users. UK207 Spectrum within this band has been awarded by Ofcom by auction – see General Note 4.2, c).
33.0-33.4 GHz FIXED 5.547A RADIONAVIGATION 5.547, 5.548 UK1, 207	UK207 Spectrum within this band has been awarded by Ofcom by auction – see General Note 4.2, c).
33.4-34.2 GHz RADIOLOCATION UK2	

Region 1	Region 2	Region 3
<p>31.3 – 31.5GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p>		
<p>31.5 – 31.8GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile</p> <p>5.149 5.546</p>	<p>31.5 – 31.8GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p>	<p>31.5 – 31.8GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile</p> <p>5.149</p>
<p>31.8 – 32GHz</p> <p>FIXED 547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)</p> <p>5.547 5.547B 5.548</p>		
<p>32 – 32.3GHz</p> <p>FIXED 547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)</p> <p>5.547 5.547C 5.548</p>		
<p>32.3 – 33GHz</p> <p>FIXED 547A INTER-SATELLITE RADIONAVIGATION</p> <p>5.547 5.547D 5.548</p>		
<p>33 – 33.4GHz</p> <p>FIXED 547A RADIONAVIGATION</p> <p>5.547 5.547E</p>		
<p>33.4 – 34.2GHz</p> <p>RADIOLOCATION</p> <p>5.549</p>		

Allocation to United Kingdom Services	Comments
34.2-34.7 GHz RADIOLOCATION SPACE RESEARCH (deep space) (Earth to space) UK2, 136	UK136 8mm MDM survey equipment may operate within 34.3-35.1 GHz on a secondary basis.
34.7-35.2 GHz RADIOLOCATION Space Research UK2, 136	UK136 8mm MDM survey equipment may operate within 34.3-35.1 GHz on a secondary basis.
35.2-35.5 GHz RADIOLOCATION METEOROLOGICAL AIDS 5.551 UK2	
35.5-36.0 GHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) (Earth to space) 5.549A UK2	
36.0-37.0 GHz EARTH EXPLORATION SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149, 5.550A UK2	
37.0-37.5 GHz FIXED MOBILE SPACE RESEARCH (space to Earth) UK1	
37.5-38.0 GHz FIXED FIXED-SATELLITE (space to Earth) MOBILE SPACE RESEARCH (space to Earth) Earth Exploration-Satellite (space to Earth) 5.547 UK1	

Region 1	Region 2	Region 3
34.2 – 34.7GHz RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space) 5.549		
34.7 – 35.2GHz RADIOLOCATION Space Research 5.550 5.549		
35.2 – 35.5GHz METEOROLOGICAL AIDS RADIOLOCATION 5.549		
35.5 – 36GHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549 5.549A		
36 – 37GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149 5.550A		
37 – 37.5GHz FIXED MOBILE SPACE RESEARCH (space-to-Earth) 5.547		
37.5 – 38GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE SPACE RESEARCH (space-to-Earth) Earth Exploration-Satellite (space-to-Earth) 5.547		

Allocation to United Kingdom Services	Comments
38·0-39·5 GHz FIXED FIXED-SATELLITE (space to Earth) MOBILE Earth Exploration-Satellite (space to Earth) 5.547 UK1	
39·5-40·0 GHz FIXED FIXED-SATELLITE (space to Earth) 5.516B MOBILE MOBILE-SATELLITE (space to Earth) Earth Exploration-Satellite (space to Earth) 5.547 UK2	
40·0-40·5 GHz FIXED FIXED-SATELLITE (space to Earth) 5.516B MOBILE MOBILE-SATELLITE (space to Earth) SPACE RESEARCH (Earth to space) Earth Exploration-Satellite (space to Earth) UK2	
40·5-41·0 GHz BROADCASTING-SATELLITE FIXED 5.547 UK1, 208	UK208 The band 40·50-43·50 GHz has been awarded by Ofcom by auction – see General Note 4.2, c).
41·0-42·5 GHz BROADCASTING-SATELLITE FIXED 5.547, 5.551H, 5.551I UK1, 208	UK208 The band 40·50-43·50 GHz has been awarded by Ofcom by auction – see General Note 4.2, c).

Region 1	Region 2	Region 3
<p>38 – 39.5GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Earth Exploration-Satellite (space-to-Earth)</p> <p>5.547</p>		
<p>39.5 – 40GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)</p> <p>5.547</p>		
<p>40 – 40.5GHz</p> <p>EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth Exploration-Satellite (space-to-Earth)</p>		
<p>40.5 – 41 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile</p> <p>5.547</p>	<p>40.5 – 41GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) 5.516B BROADCASTING BROADCASTING-SATELLITE Mobile Mobile-satellite (space-to-Earth)</p> <p>5.547</p>	<p>40.5 – 41GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) BROADCASTING BROADCASTING-SATELLITE Mobile</p> <p>5.547</p>
<p>41 – 42.5 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.516B BROADCASTING BROADCASTING-SATELLITE Mobile</p> <p>5.547 5.551F 5.551H 5.551I</p>		

Allocation to United Kingdom Services	Comments
<p>42.5-43.5 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY UK10</p> <p>5.149 5.547 UK1, 208</p>	<p>UK208 The band 40.50-43.50 GHz has been awarded by Ofcom by auction – see General Note 4.2, c).</p>
<p>43.5-45.5 GHz</p> <p>MOBILE 5.553 MOBILE SATELLITE</p> <p>5.554 UK2</p>	
<p>45.5-47.0 GHz</p> <p>MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION- SATELLITE</p> <p>5.554 UK1</p>	
<p>47.0-47.2 GHz</p> <p>AMATEUR AMATEUR-SATELLITE</p> <p>UK1, 7</p>	
<p>47.2-47.5 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE</p> <p>5.552A UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>47.5-47.9 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 (space-to-Earth) 5.516B 5.554A MOBILE</p> <p>UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>47.9-48.2 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE</p> <p>5.552A, UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>

Region 1	Region 2	Region 3
<p>42.5 – 43.5GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY</p> <p>5.149 5.547</p>		
<p>43.5 – 47GHz</p> <p>MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE</p> <p>5.554</p>		
<p>47 – 47.2GHz</p> <p>AMATEUR AMATEUR-SATELLITE</p>		
<p>47.2 – 47.5GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE</p> <p>5.552A</p>		
<p>47.5 – 47.9GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A MOBILE</p>	<p>47.5 – 47.9GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE</p>	
<p>47.9 – 48.2GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE</p> <p>5.552A</p>		

Allocation to United Kingdom Services	Comments
<p>48.2-48.54 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 (space-to-Earth) 5.516B 5.554A 5.555A MOBILE</p> <p>5.149, 5.340, 5.552A, 5.555 UK1, 27</p>	<p>UK27 Services for Programme Making and Special Events are authorised to use some frequencies in this band by agreement with Ofcom. See Annex H.</p>
<p>48.54-49.44 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552 MOBILE</p> <p>5.149, 5.340, 5.555 UK1, 10</p>	
<p>49.44-50.2 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.552, 5.338A (space-to-Earth) 5.516B 5.554A 5.555B MOBILE</p> <p>UK1</p>	
<p>50.2-50.4 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) FIXED MOBILE SPACE RESEARCH</p> <p>5.340 UK1, 3.27</p>	
<p>50.4-51.4 GHz</p> <p>FIXED FIXED-SATELLITE (Earth to space) 5.338A Mobile Satellite (Earth to space)</p> <p>UK2, 3.28</p>	
<p>51.4-52.6 GHz</p> <p>FIXED 5.338A MOBILE</p> <p>5.547, 5.556 UK1, 10</p>	
<p>52.6-54.25 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)</p> <p>5.340, 5.556 UK1, 10</p>	

Region 1	Region 2	Region 3
48.2 – 48.54GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A 5.555B MOBILE	48.2 – 50.2GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.516B 5.338A 5.552 MOBILE	
48.54 – 49.44GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE 5.149 5.340 5.555	5.149 5.340 5.555	
49.44 – 50.2GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.338A 5.552 (space-to-Earth) 5.516B 5.554A 5.555B MOBILE		
50.2 – 50.4GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340		
50.4 – 51.4GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE Mobile-Satellite (Earth-to-space)		
51.4 – 52.6GHz FIXED 5.338A MOBILE 5.547 5.556		
52.6 – 54.25GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340 5.556		

Allocation to United Kingdom Services	Comments
54-25-55-78 GHz EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) UK1	
55-78-56-90 GHz EARTH EXPLORATION- SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE except aeronautical 5.558 SPACE RESEARCH (passive) 5.547 UK1	
56-9-57-0 GHz EARTH EXPLORATION- SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE except aeronautical mobile S5.558 SPACE RESEARCH (passive) 5.547 UK1	
57-0-58-2 GHz EARTH EXPLORATION- SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE except aeronautical 5.558 SPACE RESEARCH (passive) 5.547 UK1, 11	
58-2-59-0 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.547, 5.556 UK1, 10, 11	
59-0-59-3 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive) UK4.59, 11	UK4.59 59-0-59-3 GHz – Ofcom (for the Fixed and Mobile services) and MoD (for the Radiolocation service).

Region 1	Region 2	Region 3
<p>54.25 – 55.78GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)</p> <p>5.556B</p>		
<p>55.78 – 56.9GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)</p> <p>5.547 5.557</p>		
<p>56.9 – 57.0GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACE RESEARCH (passive)</p> <p>5.547 5.557</p>		
<p>57.0 – 58.2GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)</p> <p>5.547 5.557</p>		
<p>58.2 – 59GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p> <p>5.547 5.556</p>		
<p>59 – 59.3GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)</p>		

Allocation to United Kingdom Services	Comments
<p>59.3-64.0 GHz</p> <p>FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559</p> <p>5.138</p> <p style="text-align: right;">UK4.60, 6, 11, 142</p>	<p>UK4.60 59.3-64.0 GHz – Ofcom (for the Fixed and Mobile services) and MoD (for the Radiolocation service).</p> <p>UK142 RTTT devices operate in the band 63-64 GHz</p>
<p>64.0-65.0 GHz</p> <p>FIXED INTER-SATELLITE MOBILE except aeronautical mobile</p> <p>5.547, 5.556</p> <p style="text-align: right;">UK1, 10</p>	
<p>65.0-66.0 GHz</p> <p>EARTH EXPLORATION-SATELLITE SPACE RESEARCH INTER-SATELLITE FIXED MOBILE except aeronautical mobile</p> <p>5.547</p> <p style="text-align: right;">UK1</p>	
<p>66.0-71.0 GHz</p> <p>INTER-SATELLITE MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE</p> <p>5.554</p> <p style="text-align: right;">UK1</p>	
<p>71.0-74.0 GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE MOBILE-SATELLITE (space to Earth)</p> <p style="text-align: right;">UK4.61</p>	<p>UK4.61 Ofcom (for the Fixed and Mobile services) MoD (for the Fixed-Satellite and Mobile-Satellite services).</p>
<p>74.0-75.5 GHz</p> <p>BROADCASTING BROADCASTING-SATELLITE FIXED FIXED-SATELLITE (space to Earth) MOBILE Space Research (space to Earth)</p> <p>5.561</p> <p style="text-align: right;">UK1, 11</p>	

Region 1	Region 2	Region 3
<p>59.3 – 64GHz</p> <p>FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559</p> <p>5.138</p>		
<p>64 – 65GHz</p> <p>FIXED INTER-SATELLITE MOBILE except aeronautical mobile</p> <p>5.547 5.556</p>		
<p>65 – 66GHz</p> <p>EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH</p> <p>5.547</p>		
<p>66 – 71GHz</p> <p>INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE</p> <p>5.554</p>		
<p>71 – 74GHz</p> <p>FIXED FIXED-SATELLITE (space to Earth) MOBILE MOBILE-SATELLITE (space to Earth)</p>		
<p>74 – 76GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space Research (space-to-Earth)</p> <p>5.561</p>		

Allocation to United Kingdom Services	Comments
<p>75.5-76.0 GHz</p> <p>BROADCASTING BROADCASTING-SATELLITE FIXED FIXED-SATELLITE (space to Earth) MOBILE Amateur Amateur Satellite Space Research (space to Earth)</p> <p>5.561 UK1, 7, 11</p>	
<p>76.0-77.5 GHz</p> <p>RADIOASTRONOMY RADIOLOCATION UK5.46 Amateur Amateur-satellite Space Research (space to Earth)</p> <p>5.149 UK1, 7, 10, 11, 142, 209</p>	<p>UK142 RTTT devices operate in the band 76-77 GHz</p> <p>UK5.46 76-78 GHz Ofcom for civil Radiolocation including RTTT.</p> <p>UK209 Commission Decision 2005/545/EC (harmonised use of 79 GHz (77-81 GHz) for Automotive SRR) applies.</p>
<p>77.5-78.0 GHz</p> <p>AMATEUR AMATEUR-SATELLITE RADIOLOCATION UK5.47 Radio Astronomy Space Research (space to Earth)</p> <p>5.149 UK1, 7, 10, 11, 209</p>	<p>UK5.47 76-78 GHz Ofcom for civil Radiolocation including RTTT</p> <p>UK209 Commission Decision 2005/545/EC (harmonised use of 79 GHz (77-81 GHz) for Automotive SRR) applies.</p>
<p>78-79 GHz</p> <p>RADIOLOCATION Amateur Amateur-satellite Radio Astronomy Space Research (space to Earth)</p> <p>5.149, 5.560 UK4.60, 7, 10, 11, 209</p>	<p>UK4.60 78-79 GHz Ofcom & MoD for civil/military Radio location.</p> <p>UK209 Commission Decision 2005/545/EC (harmonised use of 79 GHz (77-81 GHz) for Automotive SRR) applies.</p>
<p>79-81 GHz</p> <p>RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space Research (space to Earth)</p> <p>5.149 UK2, 7, 10, 11, 209</p>	<p>UK209 Commission Decision 2005/545/EC (harmonised use of 79 GHz (77-81 GHz) for Automotive SRR) applies.</p>

Region 1	Region 2	Region 3
74 – 76GHz – Cont'd.		
76 – 77.5GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149		
77.5 – 78GHz AMATEUR AMATEUR-SATELLITE Radio Astronomy Space research (space-to-Earth) 5.149		
78 – 79GHz RADIOLOCATION Amateur Amateur-satellite Radio Astronomy Space research (space-to-Earth) 5.149 5.560		
79 - 81GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149		

Allocation to United Kingdom Services	Comments
<p>81·0-84·0 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIOASTRONOMY Space Research (space to Earth)</p> <p>5.149 5.561A UK4.61, 10, 11</p>	<p>UK4.61 Ofcom (for the Fixed and Mobile services) MoD (for the Fixed-Satellite and Mobile-Satellite services).</p>
<p>84·0-86·0 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOASTRONOMY</p> <p>5.149 UK1, 10, 11</p>	
<p>86·0-92·0 GHz</p> <p>EARTH EXPLORATION- SATELLITE (passive) RADIOASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 UK1, 10, 146</p>	<p>UK146 Continuum measurements are conducted between 86·0-92·0 GHz.</p>
<p>92·0-94·0 GHz</p> <p>FIXED MOBILE RADIOASTRONOMY RADIOLOCATION UK5.48</p> <p>5.149 UK1, 10, 147</p>	<p>UK147 Diazenylium line observations are conducted between 92·0-95·0 GHz. UK5.48 MoD (for the Radiolocation service).</p>
<p>94·0-94·1 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION UK5.49 SPACE-RESEARCH (active) Radioastronomy</p> <p>5.562, 5.562A UK1, 10, 147</p>	<p>UK147 Diazenylium line observations are conducted between 92·0-95·0 GHz. UK5.49 MoD (for the Radiolocation service).</p>
<p>94·1-95·0 GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION UK5.50</p> <p>5.149 UK1, 10, 147</p>	<p>UK147 Diazenylium line observations are conducted between 92·0-95·0 GHz. UK5.50 MoD (for the Radiolocation service).</p>

Region 1	Region 2	Region 3
<p>81 – 84GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY Space Research (space-to-Earth)</p> <p>5.149 5.561A</p>		
<p>84 – 86GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.561B MOBILE RADIO ASTRONOMY</p> <p>5.149</p>		
<p>86 – 92GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p>		
<p>92 – 94GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION</p> <p>5.149</p>		
<p>94 – 94.1GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE-RESEARCH (active) Radio Astronomy</p> <p>5.562 5.562A</p>		
<p>94.1 – 95GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION</p> <p>5.149</p>		

Allocation to United Kingdom Services	Comments
95.0-100.0 GHz MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION- SATELLITE RADIOASTRONOMY Radiolocation 5.149, 5.554 UK1, 10, 148	UK148 Used for multiple line and continuum observations between 97.88-98.08 GHz.
100.0-102.0 GHz EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE-RESEARCH (passive) 5.340, 5.341 UK1, 10	
102.0-105.0 GHz FIXED FIXED-SATELLITE (space to Earth) RADIO ASTRONOMY 5.340, 5.341 UK1, 10	
105.0–109.5 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149, 5.341 UK1, 10	
109.5–111.8 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341 UK1, 10	
111.8–114.25 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341 UK1, 10	
114.25–116.00GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341 UK1, 10	

Region 1	Region 2	Region 3
<p>95 – 100GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE</p> <p>5.149 5.554</p>		
<p>100 – 102GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 5.341</p>		
<p>102 – 105GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY</p> <p>5.149 5.341</p>		
<p>105 – 109.5GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B</p> <p>5.149 5.341</p>		
<p>109.5 – 111.8GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 5.341</p>		
<p>111.8 – 114.25GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B</p> <p>5.149 5.341</p>		
<p>114.25 – 116GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 5.341</p>		

Allocation to United Kingdom Services	Comments
116·00–119·98 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C 5.341 UK1	
119·98–122·25 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.138 5.341 UK1, 6	
122·25–123·00 GHz FIXED INTER-SATELLITE MOBILE 5.558 Amateur 5.138 UK1, 6, 7	
123–130 GHz FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio Astronomy 5.149 5.554 UK1, 10	
130–134 GHz EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY 5.149 5.562A UK1, 10	
134–136 GHz AMATEUR AMATEUR-SATELLITE Radio Astronomy UK1, 7, 10	

Region 1	Region 2	Region 3
<p>116 – 119.98GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)</p> <p>5.341</p>		
<p>119.98 – 122.25GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)</p> <p>5.138 5.341</p>		
<p>122.25 – 123GHz</p> <p>FIXED INTER-SATELLITE MOBILE 5.558 Amateur</p> <p>5.138</p>		
<p>123 – 130GHz</p> <p>FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio Astronomy 5.562D</p> <p>5.149 5.554</p>		
<p>130 – 134GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY</p> <p>5.149 5.562A</p>		
<p>134 – 136GHz</p> <p>AMATEUR AMATEUR-SATELLITE Radio Astronomy</p>		

Allocation to United Kingdom Services	Comments
<p>136–141 GHz</p> <p>RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite</p> <p>5.149 UK1, 7, 10</p>	
<p>141.0–148.5GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION</p> <p>5.149 UK1, 10</p>	
<p>148.5–151.5 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 UK1, 10</p>	
<p>151.5–155.5 GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION</p> <p>5.149 UK1, 10</p>	
<p>155.5–158.5 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) 5.562F FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B</p> <p>5.149 5.562G UK1, 10</p>	
<p>158.5–164 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)</p> <p>UK1</p>	

Region 1	Region 2	Region 3
<p>136 – 141GHz</p> <p>RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite</p> <p>5.149</p>		
<p>141 – 148.5GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION</p> <p>5.149</p>		
<p>148.5 – 151.5GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p>		
<p>151.5 – 155.5GHz</p> <p>FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION</p> <p>5.149</p>		
<p>155.5 – 158.5GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) 5.562F FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B</p> <p>5.149 5.562F 5.562G</p>		
<p>158.5 – 164GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)</p>		

Allocation to United Kingdom Services	Comments
164–167 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 UK1, 10	
167–174.5 GHz FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE 5.558 5.149 UK1	
174.5–174.8 GHz FIXED INTER-SATELLITE MOBILE 5.558 UK1	
174.8–182 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive) UK1	
182–185 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 UK1, 10	
185–190 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive) UK1	
190–191.8 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340 UK1	

Region 1	Region 2	Region 3
<p>164 – 167GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p>		
<p>167 – 174.5GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE 5.558</p> <p>5.149 5.562D</p>		
<p>174.5 – 174.8GHz</p> <p>FIXED INTER-SATELLITE MOBILE 5.558</p>		
<p>174.8 – 182GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)</p>		
<p>182 – 185GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p>		
<p>185 – 190GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)</p>		
<p>190 – 191.8GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)</p> <p>5.340</p>		

Allocation to United Kingdom Services	Comments
191.8–200 GHz FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.341 5.554 UK1	
200–202 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341 5.563A UK1, 10	
202–209 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341 5.563A UK1, 10	
209–217 GHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY 5.149 5.341 UK1, 10	
217–226 GHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341 UK1, 10	
226.0–231.5 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 UK1, 10	

Region 1	Region 2	Region 3
<p>191.8 – 200GHz</p> <p>FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE</p> <p>5.149 5.341 5.554</p>		
<p>200 – 202GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 5.341 5.563A</p>		
<p>202 – 209GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340 5.341 5.563A</p>		
<p>209 – 217GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY</p> <p>5.149 5.341</p>		
<p>217 – 226GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B</p> <p>5.149 5.341</p>		
<p>226 – 231.5GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p> <p>5.340</p>		

Allocation to United Kingdom Services	Comments
231.5–232 GHz FIXED MOBILE Radiolocation UK1	
232–235 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation UK1	
235–238 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive) 5.563A 5.563B UK1	
238–240 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE UK1	
240–241 GHz FIXED MOBILE RADIOLOCATION UK1	
241–248 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.138 5.149 UK1, 6, 7, 10	

Region 1	Region 2	Region 3
<p>231.5 – 232GHz</p> <p>FIXED MOBILE Radiolocation</p>		
<p>232 – 235GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation</p>		
<p>235 – 238GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive)</p> <p>5.563A 5.563B</p>		
<p>238 – 240GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE</p>		
<p>240 – 241GHz</p> <p>FIXED MOBILE RADIOLOCATION</p>		
<p>241 – 248GHz</p> <p>RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite</p> <p>5.138 5.149</p>		

Allocation to United Kingdom Services	Comments
248–250 GHz AMATEUR AMATEUR-SATELLITE Radio Astronomy 5.149 UK1, 7, 10	
250-252 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A UK1, 10	
252–265 GHz FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554 UK1, 10	
265–275 GHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY 5.149 5.563A UK1, 10	
	Bands above 275.0 GHz Not allocated within the United Kingdom. Until there is a specific need to consider UK allocations above 275.0 GHz, the International Table will apply.

Note: The frequency limits quoted for bands and frequency ranges in the table above refer to band edge frequencies unless otherwise stated.

Region 1	Region 2	Region 3
248 – 250GHz AMATEUR AMATEUR-SATELLITE Radio Astronomy 5.149		
250 – 252GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A		
252 – 265GHz FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554		
265 – 275GHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY 5.149 5.563A		
275 – 400GHz (Not allocated) 5.565		

FREQUENCY BANDS DESIGNATED FOR INDUSTRIAL, SCIENTIFIC AND MEDICAL USE

Footnote UK6

1. In the United Kingdom the use of industrial, scientific and medical (ISM)¹ apparatus is allowed provided it does not contravene the provisions of the Wireless Telegraphy Act, 2006.
2. In pursuance of these provisions, regulations governing the control of interference from ISM apparatus, which include the limits of field strength and terminal voltage applicable to particular frequency bands are contained in –

The Wireless Telegraphy (Control of interference from Electro-Medical Apparatus Regulations 1963

Statutory instrument 1963 No. 1895

and

The Wireless Telegraphy (Control of Interference from Radio Frequency Heating Apparatus) Regulations 1971

Statutory Instrument 1971 No. 1675

3. Frequency bands designated for ISM applications and therefore subject to control legislation in the United Kingdom are listed below.

Frequency Band	Conditions of Use	Remarks
6 765-6 795 kHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	WT (Control of Interference from Electro-Medical Apparatus) Regulations 1963 and WT (Control of Interference from RF Heating Apparatus) Regulations 1971 also apply.
13 553-13 567 kHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	As for 6 765-6 795 kHz above.
26 957-27 283 kHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	As for 6 765-6 795 kHz above.
40·66 – 40·70 MHz	5.150 applies. Radiocommunication services must accept harmful interference from ISM	
83·996-84·004 MHz 167·992-168·008 MHz 886-906 MHz	Radiocommunication services must accept harmful interference from ISM apparatus operating in accordance with the WT (Control of Interference from RF Heating Apparatus) Regulations 1971.	The WT (Control of Interference from RF Heating Apparatus) Regulations 1971 specify the limits of levels of radiation permitted outside the ISM bands.
433·05-434·79 MHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	
2 400-2 500 MHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	

¹ See Section I of Article 1 in the Radio Regulations for the definition of “ISM applications”

Frequency Band	Conditions of Use	Remarks
5 725-5 875 MHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	
24.0-24.25 GHz *	5.150 applies. Radiocommunication services must accept harmful interference from ISM.	
61.0-61.5 GHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	
122-123 GHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	
244-246 GHz *	5.138 applies. Radiocommunication services must accept harmful interference from ISM.	

References to 5.xxx refer to the Radio Regulations section 5 as adopted in 2007.

- ISM equipment operating in the bands annotated with an asterisk above are subject to the provisions of Article 15.13 of the Radio Regulations according to which, administrations shall take all practicable and necessary steps to ensure that radiation from ISM is minimal and that, outside the band designated for use by this equipment, it is at a level that does not cause harmful interference to radiocommunications services and, in particular, to a radionavigation or any other safety service operating in accordance with the Radio Regulations.

SHORT RANGE DEVICES.

Footnote UK11

This Annex details the bands used for Short Range Devices (SRDs). These bands are identified in the main table by footnote UK11. For detailed information on the regulations and technical usage please refer to the relevant UK Air Interface Requirement (IR). This can be found at –

http://www.ofcom.org.uk/radiocomms/ifi/tech/interface_req/IR2030final.pdf

This Annex has three sub-sections:

Table 1 **Harmonised Use.** This Table lists frequencies or frequency bands which are used in accordance with CEPT/ERC Recommendation 70-03. The Recommendation consists of a number of annexes covering the major SRD applications and the sub-headings in Table 1 align with the annex numbers in the Recommendation. It is Ofcom's aim to align the UK with this Recommendation wherever possible. **Note the UK Interface Requirements takes precedence if there are any differences between the IR or the ECC Recommendation or Decision.**

Many of these bands are also contained in the Technical Annex to the EC SRD Decision – 2008/432/EC – with which the UK complies.

Table 2. **National Licence-exempt.** This Table lists frequencies or frequency bands for which agreement has been reached for SRDs to operate on a licence-exempt basis. These frequencies or frequency bands have been agreed nationally and may not be available elsewhere within the CEPT. It is Ofcom's aim to align the UK's use with CEPT/ERC Recommendation 70-03 wherever practical. **The relevant Exemption Regulation SI will provide the conditions of use, where there is no IR.**

Table 3. **National Licensed.** This Table lists frequencies or frequency bands for which agreement has been reached for SRDs to operate on a licensed basis. This Table also provides some detail of forthcoming proposals for licence exemption.

In most cases, SRDs share spectrum with other users that generally operate at much higher powers. It should be noted that SRDs are not able to claim protection from any other service operating in the same frequency band.

When selecting parameters for new SRDs, which may have inherent safety of human life implications, manufacturers and users should pay particular attention to the potential for interference from other systems operating in the same or adjacent bands.

ANNEX B - Table 1

Short Range Devices: Use in accordance with International Allocations.

Recommendation 70-03. The code refers to the CEPT/ERC Recommendation 70-03, the number references the appropriate annex and the letter the appropriate frequency band contained within the annex. The radiated power is referenced to the effective radiated power (erp), unless otherwise stated. In some cases, duty cycle restrictions (or other mitigation methods) apply.

Code	Frequencies or Frequency Band	Radiated level
1. Non-specific SRDs including Telemetry and Telecommand.		
1a	6765-6795 kHz	42 dB μ A/m @10 m
1b	13553-13567 kHz	42 dB μ A/m @10 m
1c	26·957-27·283 MHz	42 dB μ A/m @10 m
1d	40·66-40·70 MHz	10 mW
1f	433·05-434·79 MHz	10 mW
1f1	433·05-434·79 MHz	1 mW
1f2	434·04–434·79 MHz	10 mW
1g	863-870 MHz	25 mW
1g1	868-868·6 MHz	25 mW
1g2	868·7-869·2 MHz	25 mW
1g3	869·4-869·65 MHz	500 mW
1g4	869·7-870·0 MHz	25 mW
1h	2400·0-2483·5 MHz	10 mW
1i	5725-5875 MHz	25 mW eirp
1j	24·15-24·25 GHz	100 mW.
1k	61·0–61·5 GHz	100 mw
1n	3100-4800 MHz	-41.3dBm/MHz
1o	6000-9000 MHz	-41.3dBm/MHz
Note 1n and 1o - generic UWB regulation in SI 2009 Number 2517		
2. Tracking, Tracing and Data Acquisition.		
2a	456·9-457·1 kHz	7 dB μ A/m @ 10 m
2b	169·400-169·475 MHz	500 mW
2c	169·400-169·475 MHz	500 mW
Note: 2b for Meter Reading, 2c for Asset Tracking and tracing.		
3. Wideband Data Transmission Systems.		
3a	2400·0-2483·5 MHz	100 mW eirp
3b	5150-5250 MHz	200 mW eirp
3c	5250-5350 MHz	200 mW eirp
3d	5470-5725 MHz	1W eirp
3f	57-66 GHz	40 dBm mean eirp

Code	Frequencies or Frequency Band	Radiated level
4. Railway Applications.		
4a	2446-2454 MHz	500 mW eirp
4b	27·090-27·100 MHz	42 dB μ A/m @ 10 m
4c	984-7484 kHz	9 dB μ A/m @ 10 m
4d1	516-8516 kHz	7 dB μ A/m @ 10 m
4d2	7300-23000 kHz	-7 dB μ A/m @ 10 m
5. Road Transport and Traffic Telematics.		
5a	5795–5805 MHz	≤ 33 dBm eirp
5b	5805–5815 MHz	≤ 33 dBm eirp
5c	63–64 GHz	tbd
5d	76–77 GHz	≤ 55 dBm peak eirp
5e	21·65-26·65 GHz (until 1 July 2013)	See: ECC/DEC/(04)10
5f	77-81 GHz	See: ECC/DEC/(04)03
5g1	24·050-24·075 GHz	100 mW eirp
5g2	24·075-24·150 GHz	0·1 mW eirp 100 mW eirp
5g3	24·150-24·250 GHz	100 mW
6. Radiodetermination applications.		
6a	2400·0-2483·5 MHz	25 mW eirp
6d	10·577-10·597 GHz	1W eirp
6e	13·4-14·0 GHz	500 mW eirp
6f	24·05-24·25 GHz	100 mW. Devices operating in 24·05- 24·15 GHz must employ a 2 MHz/mS minimum sweep rate
6g	4500-7000 MHz	-41·3 dBm/MHz eirp
6h	8500-10600 MHz	-41·3 dBm/MHz eirp
6i	24·05-27·00 GHz	-41·3 dBm/MHz eirp
6j	57-64 GHz	-41·3 dBm/MHz eirp
6k	75-85 GHz	-41·3 dBm/MHz eirp
6l	17·1-17·3 GHz	26 dBm eirp
7. Alarms		
7a	868·6-868·7 MHz	10 mW
7b	869·250-869·300 MHz	10 mW
7c	869·65-869·7 MHz	25 mW
7d	869·2-869·25 MHz	10 mW
7e	869·3-869·4 MHz	10 mW

Code	Frequencies or Frequency Band	Radiated level
7f	169.4750-169.4875 MHz	500 mW
7g	169.5875-169.6000 MHz	500 mW
8. Model Control		
8a	26.995, 27.045, 27.095, 27.145, 27.195 MHz	100 mW
8b	34.995-35.225 MHz	100 mW
8c	40.665, 40.675, 40.685, 40.695 MHz	100 mW
9. Inductive Applications		
9aa	9.00–59.75 kHz	72 dB μ A/m @ 10m
9ab	59.75–60.25 kHz	48 dB μ A/m @ 10 m
9ac	60.25–70.00 kHz	69 dB μ A/m @ 10m descending 3 dB/octave at 30 kHz
9b	70-119 kHz	48 dB μ A/m @ 10 m
9c	119-135 kHz	66 dB μ A/m @ 10m descending 3 dB/octave at 30 kHz
9c1	135-140 kHz	48 dB μ A/m @ 10 m
9c2	140.0-148.5 kHz	48 dB μ A/m @ 10 m
9d	6765-6795 kHz	42 dB μ A/m @ 10 m
9e	7400-8800 kHz	9 dB μ A/m @ 10 m
9f	13553-13567 kHz	42 dB μ A/m @ 10 m
9f1	13553-13567 kHz	60 dB μ A/m @ 10 m
9g	26.957-27.283 MHz	42 dB μ A/m @ 10 m
9h	10200-11000 kHz	9 dB μ A/m @ 10 m
9k	3155–3400 kHz	13.5 dB μ A/m @ 10 m
9i1	148.5 kHz – 5.0 MHz	-15 dB μ A/m at 10 m
9i2	5–30 MHz	9 dB μ A/m at 10 m
9i3	400–600 kHz	-5 dB μ A/m at 10 m
10. Radio Microphones		
10b	173.965–174.015 MHz	2 mW
10c	863–865 MHz	10 mW
10d	174–216 MHz (licensed)	10 mW
10e	470–862 MHz (licensed) – note.	10 mW
Note: Restrictions apply. Future use subject to outcome of DDR.		
10f	1785–1800 MHz – note. (licensed) - note	10 mW
Note: Band auctioned in Northern Ireland.		
10h1	169.400-169.475 MHz	10 mW
10h2	169.4875-169.5875 MHz	10 mW

Code	Frequencies or Frequency Band	Radiated level
10i	169.4-174.0 MHz – note.	10 mW
Note: Tuning range. UK uses 173.325-174.000 MHz.		
11. Radio Frequency Identification Applications.		
11a	2446–2454 MHz	4 W (indoor) 500 mW (outdoor)
11b1	865.0-865.6 MHz	100 mW
11b2	865.6-867.6 MHz	2 W
11b3	867.6-868.0 MHz	500 mW
12. Ultra Low Power Active Medical Implants.		
12a	402-405 MHz	25 μ W
12a1	401–402 MHz	25 μ W
12a2	405–406 MHz	25 μ W
12b	9-315 kHz	30 dB μ A/m at 10m
12c	315-600 kHz	-5 dB μ A/m at 10m
12d	30.0-37.5 MHz	1 mW
12e	12500-20000 kHz	9 dB μ A/m at 10m
13. Wireless Audio Applications.		
13a	863-865 MHz	10 mW
13b	864.8–865.0 MHz	10 mW
13c	1795-1800 MHz – note.	20 mW eirp
Note: Band auctioned in Northern Ireland.		
13d	87.5-108.0 MHz	50 nW

ANNEX B - Table 2

Short Range Devices: Use in accordance with National Allocations

The radiated power is referenced to the effective radiated power (erp), unless otherwise stated

Code	Frequencies or Frequency Band	Radiated level
1. Non-specific Short Range Devices.		
G.1	49·82-49·98 MHz	10 mW
G.2	173·2-173·35 MHz	1 mW
G.3	173·5875, 173·6 MHz	10 mW
G.5*	417·9-418·1 MHz	250 μ W
G.6	869·3-869·4 MHz	10 mW
*Note: Row G5 - not available to new apparatus.		
2. Telemetry and Telecommand: Industrial/Commercial.		
T.2c	173·2-173·35 MHz	10 mW
T.2d	173·2-173·35 MHz	10 mW
T.2w	173·2-173·35 MHz	10 mW
T.7	458·5-458·95 MHz	500 mW
T.8	2445-2455 MHz	100 mW
3. Telemetry: Databuoys.		
D.1	34·500-34·995 MHz 35·225-35·500 MHz	250 mW
4. Alarms: For the elderly and infirm.		
A.1	27·450, 34·925, 34·950, 34·975 MHz	500 μ W
5. Alarms: Vehicle paging.		
A.2	47·4 MHz	100 mW
A.8	458·90 MHz	100 mW
6. Alarms: General alarms associated with marine applications and including fixed shore installations.		
A.3	161·275 MHz	10 mW
7. Alarms: Mobile and transportable.		
A.4	173·1875 MHz	10 mW
A.7	458·8375 MHz	100 mW
8. Alarms: Fixed.		
A.5a	173·225 MHz	10 mW
A.5b	173·225 MHz	10 mW
A.6	458·825 MHz	100 mW
9. Medical and Biological Applications.		
B.1	300 kHz-30 MHz	9 dB μ A/m @10 m
B.2a	173·7-174·0 MHz	10 mW

Code	Frequencies or Frequency Band	Radiated level
B.2b	173·7-174 MHz	10 mW
B.2.w	173·7-174 MHz	10 mW
B.3a	458·9625-459·1000 MHz	500 mW
B.3b	458·9625-459·1000 MHz	500 mW
10. Model Control.		
M.1	26960-27280 kHz	100 mW
M.2	34·945-35·305 MHz	100 mW
M.3	40·66-41·00 MHz	100 mW
M.5	433·05–434·79 MHz	10 mW
M.4	458·5-459·5 MHz	100 mW
11. Equipment for the Detection of Movement or Alert.		
F.1*	888-889 MHz	500 mW
F.2	2445-2455 MHz	100 mW eirp
F.3	5725–5875 MHz	25 mW eirp
F.4	10·577-10·597 GHz	1 W eirp
F.5	10·675-10·699 GHz	1 W eirp
F.6	13·4–14·0 GHz	500 mW eirp
F.7	24·150-24·250 GHz	2 W eirp
F.8	24·250-24·350 GHz	2 W eirp
*Note: Row F1 - not available to new apparatus.		
12. Radio Microphones.		
R.1	173·775–175·075 MHz	10 mW
R.2	173·7–175·1 MHz	10 mW
13. Radio Hearing Aids.		
H.1	173·375 – 175·075 MHz	2 mW
14. Short Range Indoor Data Links.		
S.1	2445-2455 MHz	100 mW
S.3	5725–5875 MHz	25 mW
S.2	10·675-10·699 GHz	1 W
15. Cordless Audio Equipment.		
C.1	36·61-36·79 MHz 37·01-37·19 MHz	10 µW
C.2	2400·0–2483·5 MHz	10 mW
16. Wireless video cameras – Non Broadcasting.		
V.1	1389-1399 MHz	500 mW
V.2	2400·0–2483·5 MHz	10 mW
V.3	5725–5875 MHz	25 mW

Code	Frequencies or Frequency Band	Radiated level
17. Video Distribution For Private Use.		
V.2	1389-1399 MHz	10 mW
18. Induction Applications.		
I.1	148.5-185 kHz	48 dB μ A/m @ 10 m
I.2	240-315 kHz	24 dB μ A/m @ 10 m
I.3	2–30 MHz	9 dB μ A/m @ 10 m
I.4	13533–13553 kHz	21.5 dB μ A/m @ 10 m
19. Metal Detectors: For Hobby use and the Detection of Wiring or Pipes within a Building or Dwelling.		
I.4	9–148.5 kHz	70 dB μ V/m @ 6 m
20. Radar Level Gauges.		
RL1	5150-7100 MHz	25 mW peak. 0.1 mW average.
RL2	8500 MHz to 10.6 GHz	25 mW peak. 0.1 mW average.
RL3	10.70-10.85 GHz	25 mW peak. 0.1 mW average.
RL4	24.3 to 27.7 GHz	100 mW peak. 0.36 mW average.

ANNEX B - Table 3

Short Range Devices Not Exempt From Licensing.

1 Radar Level Gauges.	
Radar Level Gauges in the band below are not exempt from licensing.	
Frequency Band	Power
10.6-10.7 GHz.	25 mW peak. 0.1 mW average.

2 Ground Probing Radars.	
The use of 150–4000 MHz by Ground Probing Radars employing wide band pulse techniques is permitted on a non-interference basis. This is subject to the following conditions which were set out in T(N)(94)11 :-	
<ol style="list-style-type: none"> 1. That the total radiated power does not exceed 0.25 mW and that the radiated power per spectral line does not exceed 100 nW. 2. That the radiation measured outside the antenna shield does not exceed 10 nW. 3. That a specification be written to cover these devices. 4. That a code of practice be written to cover the use of these types of equipment. 5. That a label should be prominently attached to the equipment warning that use could be stopped on request by a duly authorised person and that operators must be instructed not to operate the equipment in close proximity to other receiving equipment. 	
In addition, the device must be fitted with an anti-tilt mechanism.	
These devices have been proposed for licence exemption as follows –	
Frequency Range:	Radiated power eirp
150 MHz to 4 GHz	Total radiated power: ≤250 microwatts Radiated spectral line power: ≤100 nanowatts Maximum leakage power from antenna shield: ≤10 nanowatts.

3. Radio Microphones: A licence is required to operate in these bands. These are administered by the Joint Frequency Management Group on behalf of Ofcom. Use is in accordance with Annex 10 of CEPT/ECC Recommendation 70-03.		
Code	Frequencies or Frequency Band	Radiated level.
RM1	174-216 MHz (use on a tuning range basis)	10 mW 50 mW (body worn units)
RM2	470-862 MHz (use on a tuning range basis – note.	10 mW 50 mW (body worn units)
Note: Restrictions apply. Future use subject to outcome of DDR.)		
RM3	1785-1800 MHz – note.	10 mW 50 mW (body worn units)
Note: 1785-1800 MHz band auctioned in Northern Ireland.		

**FREQUENCY SHARING ARRANGEMENTS BETWEEN CIVIL LAND MOBILE AND
MILITARY SERVICES IN THE BAND 410-450 MHz**

Footnote UK65

1 The sub-bands in which civil land mobile may share with military services are:

- a. 425-429 MHz;
- b. 431-432 MHz;
- c. 440.0-443.5 MHz;
- d. 445.5-449.5 MHz.

Sharing between civil digital services and military services in these bands is on the basis of individual channels agreed between Ofcom and the MoD.

2. Civil land mobile use of the sub-bands in Section 1 will be limited geographically to the following areas within a radius of:

- a. 56 km of London (Charing Cross).
- b. 50 km of the centre of Warrington, Cheshire.
- c. 40 km of the centre of Birmingham and Glasgow.
- d. 32 km of the centres of Aberdeen, Bradford, Derby, Edinburgh, Halifax, Leeds, Leicester, Middlesbrough, Nottingham, Preston, Sheffield and Tyneside.
- e. 10 km of Coventry (SP 330 790), Bristol (ST 600 740), Swansea (SS 650 950), Newport (ST 310 880) and Cardiff (ST 190 760).

Civil land mobile use will be permitted outside of these areas where agreed between Ofcom and the MoD on a case-by-case basis.

3. Civil land mobile use of the sub-band at paragraph 1b will be limited to an area within a radius of 56 km of Charing Cross, London, except for the following frequencies which may not be used:

- a. 431.85 MHz and 431.9 MHz \pm 6.25 kHz;
- b. 431.5 MHz and 431.65 MHz \pm 12.5 kHz.

4. The following frequencies may not be used in the areas described at paragraph 2d:

- a. 447.7 MHz \pm 6.25 kHz;
- b. 447.75 MHz, 448.25 MHz, and 448.75 MHz all \pm 12.5 kHz.

5. The following frequencies must not be used by the civil land mobile service at any of the areas described below:

- a. 425.025 MHz within 32 km of Leicester and Worcester;
- b. 443.5 MHz may not be used within 32 km of any of the designated areas in 2d above.

6. The Ministry of Defence undertakes not to introduce new services which will affect civil land mobile services operating within 410-429 MHz or those areas described at paragraphs 2a, 2b, 2c and 3 and will effect co-ordination of proposals for new military assignments which may affect civil land mobile services operating in those areas described in paragraph 2d.

7. Military services operating outside the areas described at paragraphs 2, 3 and 4 and on excluded frequencies inside the areas described at paragraph 2d and 3 will be protected from interference by civil land mobile services.
8. Nothing in the foregoing arrangements precludes consideration by the Ministry of Defence of civil assignments, on a case-by-case basis, on any other frequencies in the band 424-450 MHz.

Frequencies for Radio Astronomy and List of UK sites

Footnote UK10

1. UK Radio Astronomy Sites.

Observatory	Location	Ordnance Survey National Grid Reference
Cambridge	Cambridge	TL 39400 54000
Chilbolton*	Stockbridge, Hants	SU 37900 38500
Darnhall	Cheshire	SJ 64275 62265
Defford	Worcestershire	SO 90200 44700
Jodrell Bank	Cheshire	SJ 79650 70950
Knockin	Shropshire	SJ 32855 21880
Pickmere	Tabley, Cheshire	SJ 70404 76945

* Currently there is no protection afforded to the Chilbolton site.

2. Radio Astronomy Bands.

This annex splits the radio astronomy band allocations into two classifications according to whether the spectrum is available under the provisions of Recognised Spectrum Access (RSA).

2.1 The following frequency bands are where RSA is available for sites at Jodrell Bank (JB), Cambridge (CA), Defford (DE), Darnhall (DA), Pickmere (PI) and Knockin (KN) and the list of Radio Astronomy sites covered under grant of RSA;

Frequency Band	Typical Applications	Radio Astronomy Sites Covered Under Grant of RSA
MHz		
37-75-38-25	All sky survey at CLFST.	
80-5-82-5	Scintillation studies and mapping radio sources.	
150-05-152-00	MERLIN mapping of radio sources and by CLFST for all sky survey.	CA JB
606-614	Pulsar observations and VLBI measurements.	CA JB
1400-1427	Hydrogen line studies, pulsars observations and mapping radio sources.	CA DA DE JB KN PI
1610-6-1613-8	MERLIN and hydroxyl line studies.	CA DA DE JB KN PI
1660-0-1660-5	MERLIN and hydroxyl line studies.	CA DA DE JB KN PI
1660-5-1668-0	MERLIN and hydroxyl line studies.	CA DA DE JB KN PI
1668-1670	MERLIN and hydroxyl line studies.	JB CA DA DE KN PI
2690-2700	Mapping radio sources, pulsars, and possibly MERLIN observations.	CA DA DE JB KN PI
GHz		
10-60-10-68	Cosmic background studies.	
10-68-10-70	Cosmic background studies.	CA DA JB KN PI DE
15-35-15-40	Mapping radio sources.	CA DA JB KN PI DE
22-00-22-21	MERLIN observations and water (H ₂ O) line studies.	CA DA JB KN PI
22-21-22-50	MERLIN observations and water (H ₂ O) line studies.	CA DA JB KN PI
22-81-22-86	Ammonia (NH ₃) line studies.	JB CA
23-07-23-12	Ammonia (NH ₃) line studies.	CA JB
23-6-24-0	MERLIN observations and ammonia (NH ₃) line studies.	CA DA JB KN PI DE
31-3-31-5	Cosmic microwave studies.	CA JB DA KN PI DE
31-5-31-8		
42-5-43-5	Silicon monoxide (SiO) line studies and MERLIN observations.	CA
48-94-49-04	Carbon mono-sulphide (CS) line studies.	

2.2 The following frequency bands are not covered under RSA regulations and previous arrangements continue to apply.

Category of Protection

- A. The full protection afforded a primary or exclusive radiocommunication allocation.
- B. Full protection within a stated limit will be provided for a named observatory. Bands previously within this category are now available under RSA.
- C. All practicable measures will be taken to protect the radio astronomy service from harmful interference when planning assignments within the band.
- D. No protection can be afforded to the radio astronomy service in this band.

ALLOCATIONS TO RADIO ASTRONOMY OBSERVATORIES

Frequency Band	Status	Prot.	Observatory	Typical Applications
kHz				
13 360 - 13 410	PRIMARY	D	-	Only likely to be used at sunspot minimum.
25 550 - 25 670	PRIMARY	D	-	Only likely to be used at sunspot minimum.
MHz				
232.0 - 236.0	Footnote	D	Jodrell Bank	Pulsars
326.5 - 328.5	Footnote	D	Cambridge, Jodrell Bank	VLBI measurements, pulsars and Deuterium line studies.
406.1 - 410.0	PRIMARY Shared	C	Cambridge, Darnhall, Defford, Jodrell Bank, Knockin, Pickmere	MERLIN observations, pulsars and mapping radio sources.
962 - 970	Footnote	D	Jodrell Bank	Pulsars
1 350 - 1 380	Footnote	D	Cambridge, Darnhall, Defford, Jodrell Bank, Knockin, Pickmere	Red shifted hydrogen line studies and MERLIN.
1 380 - 1 400	Footnote	C	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Noting 5.339 permits 1370-1400 MHz to be used on a secondary basis. Red shifted hydrogen line studies and MERLIN.
1 718.8 - 1 722.2	Footnote	D	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Noting 5.385 permits this band to be used on a secondary basis. MERLIN observations and hydroxyl line studies.
2 290 - 2 300	Footnote	D	Jodrell Bank	VLBI measurements and pulsars.
2 655 - 2 670	Secondary	D	Jodrell Bank	VLBI measurements and pulsars.
2 670 - 2 690	Secondary	D	Jodrell Bank	Mapping radio sources, pulsars.
4 600 - 4 825	Footnote	D	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Cosmic microwave studies and MERLIN measurements.
4 825 - 4 835	Footnote	D	Cambridge, Darnhall, Defford Knockin, Pickmere	Cosmic microwave studies and MERLIN measurements.
	Secondary Shared	C	Jodrell Bank	Formaldehyde (H ₂ CO) line studies and MERLIN measurements.
4 835 - 4 950	Footnote	D	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Cosmic microwave studies and MERLIN measurements.
4 950 - 4 990	Secondary Shared	C	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Cosmic microwave studies.
4 990 - 5 000	PRIMARY Shared	C	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Mapping radio sources and pulsars.
6 650.0 - 6 675.2	Footnote	D	Cambridge, Darnhall, Defford Jodrell Bank, Knockin, Pickmere	Methanol (CH ₃ OH) line studies and MERLIN.
8 400 - 8 500	Footnote	D	Cambridge, Jodrell Bank	VLBI measurements
GHz				
14.47 - 14.50	Secondary	D	Cambridge, Jodrell Bank	Used for Formaldehyde (H ₂ CO) line studies.
51.40 - 54.25	Footnote.	D	-	
58.2 - 59.0	Footnote	D	-	
64 - 65	Footnote	D	-	
76.0 - 77.5	PRIMARY		-	
77.5 - 79.0	Secondary		-	
79 - 86	PRIMARY		-	
86 - 92	PRIMARY	A	Cambridge	Spectral line studies.
92 - 94	PRIMARY		-	
94.0 - 94.1	Secondary		-	
94.10 - 116.25	PRIMARY		-	
123 - 130	Secondary		-	
130 - 134	PRIMARY		-	

Frequency Band	Status	Prot.	Observatory	Typical Applications
134 - 136	Secondary		-	
136.0 - 148.5	PRIMARY		-	
148.5 - 151.5	PRIMARY		-	
151.0 - 158.5	PRIMARY		-	
164 - 167	PRIMARY		-	
182 - 185	PRIMARY		-	
200 - 217	PRIMARY		-	
226.0 - 231.5	PRIMARY		-	
241 - 248	PRIMARY		-	
248 - 250	Secondary		-	
250 - 275	PRIMARY		-	

In addition to the frequencies listed above, it should be noted that WRC2000 identified a need in the following bands for spectral line measurements for passive services:

Radio Astronomy Service	Earth Exploration-Satellite Service (passive) and Space Research Service (passive)	
GHz	GHz	GHz
275 - 323	275 - 277	546 - 568
327 - 371	294 - 306	624 - 629
388 - 424	316 - 334	634 - 654
426 - 442	342 - 349	659 - 661
453 - 510	363 - 365	684 - 692
623 - 711	371 - 389	730 - 732
795 - 909	416 - 434	851 - 853
926 - 945	442 - 444	951 - 956
	496 - 506	

Future research in this largely unexplored spectral region may yield additional spectral lines and continuum bands of interest to the passive services. Administrations are urged to take all practicable steps to protect these passive services from harmful interference until the date when the Allocation Table is established in the above mentioned frequency band – footnote no. 5.565 in the Radio Regulations refers and is the subject of a review of passive spectrum use under WRC-12 Agenda Item 1.6.

3. NOTES.

3.1 CHILBOLTON OBSERVATORY.

Currently the following allocations are not subject to any protection other than any provided by the Radio Regulations, e.g. footnote no. 5.340.

MHz	GHz
150.05 – 152.00	10.68 - 10.70
406.1 – 410.0	22.21 - 22.50
1 400 - 1 427	22.81 - 22.86
1 610.6 - 1 613.8	23.07 - 23.12
1 660.5 - 1 670.0	23.6 - 24.0
1 718.8 - 1 722.2	31.3 - 31.5
2 690 - 2 700	
4 990 - 5 000	

3.2 ABBREVIATIONS

CLFST	Cambridge Low Frequency Synthesis Telescope.
MERLIN	Multi Element Radio Linked Interferometer Network.
VLBI	Very Long Baseline Interferometry.

FREQUENCIES FOR THE OPERATION OF SONOBUOYS

Footnote UK40 and UK48

1. Sonobuoys may be operated in the band 136-174 MHz, subject to the following conditions:
 - a) During normal peacetime exercises, sonobuoys operating below 162 MHz would not be deployed within 50 miles of the United Kingdom coast.
 - b) Sonobuoys would not normally be used within a radius of 5 nautical miles of any oil rig or platform.
 - c) Should the operation of Sonobuoys cause harmful interference to radio services operating in accordance with the UK Frequency Allocation Table, geographical or frequency assignment restrictions would be imposed on the Sonobuoy operations.

2. Sonobuoys are covered by Footnotes UK40 (for the band 136.0-162.0 MHz) and UK48 (for the band 162.0-174.0 MHz and permitting use near UK coasts on a non-interference basis).

The assignments agreed for Sonobuoys operations in the band 136-174 MHz are listed below.

Channel numbers	Frequency	Channel numbers	Frequency
1	162.25 MHz	47	141.625 MHz
2	163.0 MHz	48	142.0 MHz
3	163.75 MHz	49	142.375 MHz
4	164.5 MHz	50	142.75 MHz
5	165.25 MHz	51	143.125 MHz
6	166.0 MHz	52	143.5 MHz
7	166.75 MHz	53	143.875 MHz
8	167.5 MHz	54	144.250 MHz
9	168.25 MHz	55	144.625 MHz
10	169.0 MHz	56	145.0 MHz
11	169.75 MHz	57	145.375 MHz
12	170.5 MHz	58	145.75 MHz
13	171.25 MHz	59	146.125 MHz
14	172.0 MHz	60	146.5 MHz
15	172.75 MHz	61	146.875 MHz
16	173.5 MHz	62	147.25 MHz
17	Not used	63	147.625 MHz
18	163.375 MHz	64	148.0 MHz
19	164.125 MHz	65	148.375 MHz
20	164.875 MHz	66	148.75 MHz
21	165.625 MHz	67	149.125 MHz
22	166.375 MHz	68	149.5 MHz
23	167.125 MHz	69 - 77	Not used
24	167.875 MHz	78	153.25 MHz
25	168.625 MHz	79	153.625 MHz
26	169.375 MHz	80	154.0 MHz
27	170.125 MHz	81	154.375 MHz
28	170.875 MHz	82	154.75 MHz
29	171.625 MHz	83	155.125 MHz
30	172.375 MHz	84	155.5 MHz
31	173.125 MHz	85	155.875 MHz

Channel numbers	Frequency	Channel numbers	Frequency
32 - 37	Not used	86-89	Not used
38	138.25 MHz	90	157.75 MHz
39	138.625 MHz	91	158.125 MHz
40	139.0 MHz	92	158.5 MHz
41	139.375 MHz	93	158.875 MHz
42	139.75 MHz	94	159.25 MHz
43	140.125 MHz	95	159.625 MHz
44	140.5 MHz	96	160.0 MHz
45	140.875 MHz	97	160.375 MHz
46	141.25 MHz	98-104	Not used

FREQUENCIES FOR THE AMATEUR AND AMATEUR SATELLITE SERVICES

Footnote UK7

1. The frequency bands or sub-bands listed below have been agreed by Ofcom for use by the Amateur service within the United Kingdom.

2. Bands allocated on a PRIMARY basis:

kHz	MHz	GHz
1810 – 1830 ²	50.0 – 51.0 ²	24.0 – 24.05 ^{*4}
1830 – 1850	144.0 – 146.0 [*]	47.0 – 47.20 [*]
3500 – 3800 ¹		75.875 – 76.00 ^{1*}
7000 – 7100 [*]		77.5 – 78.00 ^{1*}
7100 - 7200		134 – 136 ^{1*}
14000 – 14250 [*]		248 – 250 ^{1*}
14250 – 14350		
18068 – 18168 [*]		
21000 – 21450 [*]		
24890 – 24990 [*]		
28000 – 29700 [*]		

3. Bands or sub-bands allocated on a SECONDARY basis:

kHz	MHz	GHz
135.7 – 137.8 ^{3 8}	51 – 52 ³	10.000 – 10.125
1850 – 2000 ³	70 – 70.5 ³	10.225 – 10.450
10100 – 10150	430 – 435 ^{9.}	10.450 – 10.475 [*]
	435 – 438 [*]	10.475 – 10.500 ⁶
	438 – 440	24.050 – 24.150 ^{4 5}
	1240 – 1260	24.150 – 24.250
	1260 – 1270 ^{*7}	75.500 – 75.875 [*]
	1270 – 1325	76.00 – 77.50 [*]
	2310 – 2400	78.00 – 79.00 [*]
	2400 – 2450 ^{*4}	79.00 – 81.00 [*]
	3400 – 3475	122.25 – 123.00
	5650 – 5670 ^{*7}	136.00 – 141.00 [*]
	5670 – 5680	241.00 – 248.00 [*]
	5755 – 5765 ⁴	
	5820 – 5830 ⁴	
	5830 – 5850 ^{*4 10}	

4. Notes on above tables:

* May also be used by the Amateur-Satellite service.

1 Shared with other services

2 Available on the basis of non-interference to other services outside the UK

3 Available on the basis of non-interference to other services inside or outside the UK

4 Users must accept interference from ISM users

5 May only be used with the written consent of Ofcom.

6 Amateur Satellite service only.

7 Earth to space only.

⁸ Maximum power (e.r.p.) 0 dBW.

⁹ The band 431-432 MHz must not be used within a 100 km radius of Charing Cross, London (51° 30' 30" N, 00° 07' 24" W).

¹⁰ Space to Earth only.

5. The bands allocated to the Amateur service at 3 500 kHz, 7 000 kHz, 10 100 kHz, 14 000 kHz, 18 068 kHz, 21 000 kHz, 24 890 kHz and 144 MHz may, in the event of natural disasters, be used by non-Amateur stations to meet the need of international communications in the disaster area. Article 25.3 of the Radio Regulations refers.
6. The band allocated to the Amateur service at 50-51 MHz may, in the event of natural disasters, be used by non-Amateur stations to meet the need of communications in the disaster area.

FREQUENCIES FOR DISTRESS AND SAFETY, SEARCH AND RESCUE AND EMERGENCIES

Footnote UK12

Frequency kHz	Use
490	Transmission by coast stations or meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing (NBDP) telegraphy (national NAVTEX).
518	Transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of automatic narrow-band direct-printing telegraphy (International NAVTEX System).
2 174.5	International Global Maritime Distress and Safety System (GMDSS) distress frequency for narrow-band direct-printing telegraphy.
2 182	International distress carrier frequency for radiotelephony. Distress calls and traffic, signals of emergency position-indicating radio-beacons (EPIRBs), urgency signal and urgency messages and the safety signal. GMDSS distress and safety traffic by radiotelephony. Search and Rescue (SAR) operations concerning manned space vehicles.
2187.5	GMDSS distress and safety calls using digital selective calling (DSC).
2 596	Carrier frequency for radiotelephony. Used in the UK for SAR purposes by HM Coastguard (HMCG) and the Royal National Lifeboat Institution (RNLI).
3 023	Aeronautical carrier frequency for radio-telephony. Can also be used in co-ordinated SAR operations. SAR operations concerning manned space vehicles.
3 500-3 800	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
4 125	Carrier frequency used to supplement 2 182 kHz for distress and safety. GMDSS distress and safety traffic by radiotelephony. May be used by aircraft to communicate with stations of the Maritime Mobile service for distress and safety purposes, including SAR.
4 177.5	GMDSS distress and safety traffic by NBDP.
4 207.5	GMDSS distress and safety calls using DSC.
4 209.5	NAVTEX-type transmissions by coast stations by means of NBDP.
4 210	Transmission by coast stations of Maritime Safety Information (MSI) by means of NBDP.
5 680	Aeronautical carrier frequency for radiotelephony. Used in co-ordinated SAR operations. SAR operations concerning manned space vehicles.
6 215	Carrier frequency used to supplement 2 182 kHz for distress and safety. GMDSS distress and safety traffic by radiotelephony.
6 268	GMDSS distress and safety traffic by NBDP.
6 312	GMDSS distress and safety calls using DSC.
6 314	Transmission by coast stations of MSI by means of NBDP.
7 000-7 200	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.

Frequency kHz	Use
8 291	Carrier frequency for GMDSS distress and safety traffic by radiotelephony.
8 364	Used by survival craft in SAR operations with stations of the Maritime and Aeronautical Mobile services.
8 376.5	GMDSS distress and safety traffic by NBDP
8 414.5	GMDSS distress and safety calls using DSC.
8 416.5	Transmission by coast stations of MSI by means of NBDP.
10 003	SAR operations concerning manned space vehicles.
10 100-10 150	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area
12 290	Carrier frequency for GMDSS distress and safety traffic by radiotelephony.
12 520	GMDSS distress and safety traffic by NBDP.
12 577	GMDSS distress and safety calls using DSC.
12 579	Transmission by coast stations of MSI by means of NBDP.
14 000-14 350	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
14 993	SAR operations concerning manned space vehicles.
16 420	Carrier frequency for GMDSS distress and safety traffic by radiotelephony.
16 695	GMDSS distress and safety traffic by NBDP.
16 804.5	GMDSS distress and safety calls using DSC.
16 806.5	Transmission by coast stations of MSI by means of NBDP.
18 068-18 168	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
19 680.5	Transmission by coast stations of MSI by means of NBDP.
19 993	SAR operations concerning manned space vehicles.
21 000-21 450	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
22 376	Transmission by coast stations of MSI by means of NBDP.
24 890-24 990	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
26 100.5	Transmission by coast stations of MSI by means of NBDP.

Frequency MHz	Use
86-3125	Land SAR - England, Wales, Scotland and Ireland
121-45-121-55	Aeronautical emergency frequency for the purposes of distress and urgency for radiotelephony by stations of the Aeronautical Mobile service. May also be used for these purposes by survival craft stations. EPIRBs may also use this frequency. SAR operations concerning manned space vehicles.
123-1	Auxiliary to 121-5 MHz, for use by stations of the Aeronautical Mobile service and by other mobile and land stations engaged in co-ordinated SAR operations.
132-65	SAR helicopter co-ordination.
144-146	Amateur band; in the event of natural disasters, may be used by non-Amateur stations to meet the needs of international communications in the disaster area.
156-0	HMCG SAR on the UK coast.
156-3	Communications between ship stations and aircraft stations engaged in co-ordinated SAR operations. May be used by aircraft stations to communicate with ship stations for other safety purposes.
156-375	Communication between ship stations, aircraft stations and participating land stations engaged in co-ordinated SAR and anti-pollution operations. HMCG Yacht safety channel (1st reserve).
156-5	Communication between ship stations, aircraft stations and participating land stations engaged in co-ordinated SAR and anti-pollution operations.
156-525	In the Maritime Mobile VHF service the frequency 156-525 MHz is to be used exclusively for digital selective calling for distress, safety and calling (see Resolution 323 (Mob-87)).
156-65	GMDSS ship-to-ship communications relating to the safety of navigation.
156-675	Communications between ship stations, aircraft stations and participating land stations engaged in co-ordinated SAR and anti-pollution operations. HMCG 2nd reserve channel for SAR.
156-8	International distress and safety frequency for radiotelephony. Used for the distress signal the distress call, distress traffic, the urgency signal urgency traffic and the safety signal. GMDSS distress and safety traffic by radiotelephony. May be used by aircraft stations for safety purposes only. SAR operations concerning manned space vehicles.
158-65	Land SAR - Scotland.
160-6	HMCG SAR on the UK coast.
161.975	AIS 1 – used for AIS search and rescue transmitters (AIS-SART) for use in search and rescue operations.
162.025	AIS 2 – used for AIS search and rescue transmitters (AIS-SART) for use in search and rescue operations.
242-95-243-05	Survival craft stations and equipment used for survival purposes. SAR operations concerning manned space vehicles.
282-8	Survival craft stations and equipment used for survival purposes. SAR operations concerning manned space vehicles.
406-406-1	Satellite EPIRBs in the Earth-to-space direction.

Frequency MHz	Use
1 530-1 544	In addition to routine non-safety use, is used for distress and safety purposes in the space-to Earth direction in the Maritime Mobile-Satellite service.
1 544-1 545	Distress and safety operations including feeder links of satellites need to relay the emissions of satellite EPIRBs to Earth stations and narrow-band (space-to-Earth) links from space stations to mobile stations.
1626.5- 1645.5	In addition to routine non-safety use, is used for distress and safety purposes in the Earth-to-space direction in the Maritime Mobile-Satellite service.
1645-1646.5	Distress and safety operations including transmissions from satellite EPIRBs and relay distress alerts received by satellites in low polar earth orbits to geostationary satellites.
9200-9500	Search and rescue Radar transponders to facilitate SAR.

SPECTRUM AVAILABLE FOR USE IN PROGRAMME MAKING AND SPECIAL EVENTS

Footnote UK 27

Frequency.		Comments & typical use.
47.55	48.8 MHz	Audio.
52.0	52.95 MHz	Audio.
53.75	55.75 MHz	Audio.
60.75	62.75 MHz	Audio.
67.75	67.8375 MHz	Audio.
69.15625	69.18125 MHz	Audio.
74.68125	74.71875 MHz	Audio.
75.2625	75.3 MHz	Audio, airborne use permitted, restrictions apply.
76.80625	76.84375 MHz	Audio.
78.18375	78.25875 MHz	Audio.
82.65625	82.68125 MHz	Audio.
86.66875	86.68125 MHz	Audio, geographical restrictions apply.
86.80625	86.84375 MHz	Audio, airborne use permitted, restrictions apply.
139.54375	139.55625 MHz	Audio, geographic restrictions apply.
139.56875	139.58125 MHz	Audio, geographic restrictions apply.
139.64375	139.66875 MHz	Audio, geographic restrictions apply.
140.9875	141.4875 MHz	Audio, geographic restrictions apply. Airborne use permitted, restrictions apply.
148.5625	148.5875 MHz	Audio, geographic restrictions apply.
148.7125	148.7375 MHz	Audio, geographic restrictions apply.
175.15	175.35 MHz	Wireless microphone use only. Geographic restrictions apply.
175.425	175.625 MHz	Radio microphone use only. Geographic restrictions apply.
176.3	176.5 MHz	Radio microphone use only. Geographic restrictions apply.
176.5	176.9 MHz	Radio microphone use only. Geographic restrictions apply.
176.9	177.1 MHz	Radio microphone use only. Geographic restrictions apply.
181.69375	181.80625 MHz	Audio Links and Data Links.
184.5	185.1 MHz	Wireless microphone use only.
189.69375	189.80625 MHz	Audio Links and Data Links.
191.6	191.8 MHz	Includes use by Links and wireless microphones.
191.8	192.0 MHz	Wireless microphone use only.
192.0	193.1 MHz	Wireless microphone use only.
199.6	200.2 MHz	Includes use by fixed audio links and wireless microphones. Restrictions apply for links.
200.2	201.1 MHz	Wireless microphone use only.
207.6	210.1 MHz	Wireless microphone use only.
425.3125	425.5625 MHz	Audio, geographic restrictions apply.

Frequency.		Comments & typical use.
427-7625	428-0125 MHz	Audio, geographic restrictions apply.
442-2625	442-5125 MHz	Audio, geographic restrictions apply.
446-425	447-5125 MHz	Audio, power restrictions apply in certain geographic areas.
454-9875	455-4625 MHz	Audio, geographic restrictions apply. Some airborne use permitted, restrictions apply.
457-25	457-475 MHz	Audio, some airborne use permitted, restrictions apply.
461-23125	461-25625 MHz	Audio, some airborne use permitted, restrictions apply.
462-750	463-000 MHz	Audio, Some airborne use permitted, restrictions apply. Some power restrictions apply.
467-2625	469-8750 MHz	Audio. Geographic restrictions apply. Some airborne use permitted, restrictions apply.
470	550 MHz	Includes use by audio links and wireless microphones. Restrictions apply.
550	606 MHz	Audio and wireless microphones. Restrictions apply (until end of DSO in 2012).
606	614 MHz	Low power wireless microphone use only. Geographic restrictions apply until 21 September 2011.
614	630 MHz	Includes use by audio and wireless microphones. Restrictions apply (until end of DSO in 2012).
630	790 MHz	Includes use by audio and wireless microphones. Restrictions apply.
854	862 MHz	Wireless microphones and audio fixed links until October 2012. Airborne use permitted.
1517	1525 MHz	Wireless microphones.
1785	1800 MHz	1790-1798 MHz – use to be co-ordinated with Ofcom/SG. (Auctioned in Northern Ireland).
2025	2110 MHz	Video used on the basis of no interference to, and no-protection from, MoD Services operating in 2025-2070 MHz.
2200	2300MHz	Video used on the basis of no interference to, and no-protection from, MoD Services operating in 2200-2245 MHz.
2390	2500 MHz	Video.
3400	3440 MHz	Video. Geographic restrictions apply. Some airborne use permitted.
3500	3580 MHz	Video. Geographic restrictions apply. Some airborne use permitted.
5472	5588 MHz	Fixed video links. Geographic restrictions apply.
5682-5	5702-5 MHz	Fixed video links. Geographic restrictions apply.
5705	5725 MHz	Fixed video links. Geographic restrictions apply.
5732-5	5752-5 MHz	Fixed video links. Geographic restrictions apply.
5770	5790 MHz	Fixed video links. Geographic restrictions apply. Some airborne use permitted.
5795	5815 MHz	Fixed video links. Geographic restrictions apply.
5850	5925 MHz	Fixed video links. Geographic restrictions apply. Some airborne use permitted.
7110	7250 MHz	Fixed video links. Some geographic restrictions apply. Some airborne use permitted.
7300	7425 MHz	Fixed video links.

Frequency.		Comments & typical use.
8460	8500 MHz	Fixed video links. Some geographic restrictions apply.
10·30	10·36 GHz	Fixed video links. Geographic restrictions apply. Some airborne use permitted.
12·2	12·5 GHz	Fixed video links.
24·25	24·5 GHz	Fixed video links.
48·0	48·4 GHz	Video links.

SPECTRUM AVAILABLE FOR EMERGENCY SERVICES USE.

Footnote UK3

Lower Band Edge	Upper Band Edge	Comments
MHz		
70-50000	71-50000	
80-00000	81-50000	
86-30625	86-31875	UK - Land Search & Rescue.
138-08750	138-11250	
138-28750	138-31250	
143-00000	144-00000	
146-00000	148-00000	
147-46875	147-48125	UK - Land Search & Rescue.
152-00000	153-01250	
153-03750	153-06250	
154-00000	156-00000	
155-34375	155-35625	England and Wales - Land Search & Rescue.
158-63750	158-66250	UK - Land Search & Rescue. Till end 2009.
158-64375	158-65625	UK - Land Search & Rescue. From 2010.
166-09375	166-10625	England and Wales – NHS ambulance service.
166-19375	166-20625	England and Wales – NHS ambulance service.
166-26875	166-41875	England and Wales – NHS ambulance service.
166-43125	166-44375	England and Wales – NHS ambulance service.
166-45625	166-61875	England and Wales – NHS ambulance service.
166-74375	166-75625	England and Wales – NHS ambulance service.
166-79375	166-80625	England and Wales – NHS ambulance service.
168-31250	168-83750	
170-89375	170-90625	England and Wales – NHS ambulance service.
170-99375	171-00625	England and Wales – NHS ambulance service.
171-06875	171-21875	England and Wales – NHS ambulance service.
171-23125	171-24375	England and Wales – NHS ambulance service.
171-25625	171-41875	England and Wales – NHS ambulance service.
171-54375	171-55625	England and Wales – NHS ambulance service.
171-59375	171-60625	England and Wales – NHS ambulance service.
173-98750	174-41250	

Lower Band Edge	Upper Band Edge	Comments
380-00000	385-00000	
390-00000	395-00000	
410-00	412-00	
420-00	422-00	
450-00000	453-00000	
453-26875	453-28125	England and Wales.
453-31875	453-33125	England and Wales.
453-36875	453-38125	England and Wales.
455-87500	456-00000	
457-00000	457-25000	
457-47500	457-50000	
459-49375	459-50625	
459-50625	459-51875	
459-53125	459-54375	
459-76875	459-78125	England and Wales.
459-81875	459-83125	England and Wales.
459-86875	459-88125	England and Wales.
460-50000	460-75000	
462-50000	462-75000	
464-00000	466-06250	
466-08750	467-25000	
469-87500	470-00000	England and Wales.
862-00000	863-00000	
1668-00000	1670-00000	
1677-00000	1685-00000	
1698-00000	1700-00000	
1790-00000	1798-00000	
2302-00000	2310-00000	
2310-00000	2320-00000	For wideband mobile emergency services (subject to MoD restrictions). Not used by Scottish Government services.
2320-00000	2360-00000	For wideband mobile emergency services (subject to MoD restrictions).
2360-00000	2380-00000	For wideband aeronautical mobile emergency services (on a temporary basis and subject to MoD restrictions).
3442-00000	3475-00000	
8340-00000	8360-00000	For mobile emergency services (within the M25 orbital road only).
8400-00000	8460-00000	

Lower Band Edge	Upper Band Edge	Comments
GHz		
10.250	10.270	For mobile emergency services (subject to MoD restrictions).
10.360	10.400	For mobile emergency services (subject to MoD restrictions).
10.400	10.460	For mobile emergency services (subject to MoD restrictions).
24.050	24.150	
50.200	50.400	Paired with 51.2-51.4 GHz – for mobile Emergency Services.
51.200	51.400	Paired with 50.2-50.4 GHz – for mobile Emergency Services.

Note.

The Public Safety Spectrum Policy Group (PSSPG) is a standing interdepartmental committee advising government and Ofcom on spectrum issues relating to the police fire and ambulance service. It reports through an independent chair to the United Kingdom Spectrum Strategy Committee and draws its membership from departments in central government and the devolved administrations that sponsor the police fire and ambulance service and other departments with an interest in the Emergency Services or associated emergency responders.

Further details can be found at:

http://www.ofcom.org.uk/radiocomms/ifi/licensing/classes/business_radio/emergency/psspg/

SPECTRUM AVAILABLE FOR POWER LINE CARRIER SYSTEMS

Footnote UK13

The Energy Networks Association may make assignments for power line carrier systems in the bands below. These systems fall into two categories –

- Normally Quiescent Carrier Systems. These systems may use any frequency within the range 30.0 to 526.5 kHz.
- Continuous Carrier Systems. These systems may also use frequencies within the range 30.0 to 526.5 kHz. This use is in accordance with the availability of the bands and restrictions listed below in the table below.

Band (kHz)	Availability and Restriction
30 to 59	Available without restriction.
59 to 61	Not available - to guard reception of TIME SIGNALS and STANDARD FREQUENCY transmissions.
61 to 90	Available without restriction.
90 to 110	Not available.
110 to 129	Available without restriction.
129 to 132	Available without restriction.
132 to 135	Not available.
135 to 138	Available but note presence of the Amateur service.
138 to 146	Available without restriction.
146 to 148	Not available.
148 to 193	Available without restriction.
193 to 203	Not available.
203 to 222	Available without restriction.
222 to 232	Not available.
232 to 247	Available without restriction.
247 to 489	Not available - to guard AERONAUTICAL RADIONAVIGATION and maritime radio beacons.

Band (kHz)	Availability and Restriction
489 to 491	Available subject to protection of Maritime Safety Information (GMDSS).
491 to 495	Available.
495 to 505	Not available - to guard DISTRESS traffic on 500 kHz.
505 to 526.5	Available - subject to protection of NAVTEX service.