

Anlage 1

Below 8.3 kHz	(Not allocated) 5.53 5.54	(Not allocated) 5.53 5.54
8.3 – 9 kHz	METROLOGICAL AIDS 5.54A 5.54B 5.54C	METROLOGICAL AIDS 5.54A 5.54B
9 – 11.3 kHz	METROLOGICAL AIDS 5.54A RADIONAVIGATION	METROLOGICAL AIDS 5.54A RADIONAVIGATION Land Mobile A02
11.3 – 14 kHz	RADIONAVIGATION	RADIONAVIGATION Land Mobile A02
14 – 19.95 kHz	FIXED MARITIME MOBILE 5.57 5.55 5.56	FIXED MARITIME MOBILE 5.57 Land Mobile A02 5.55 5.56
19.95 - 20.05 kHz	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz) Land Mobile A02
20.05 - 70 kHz	FIXED MARITIME MOBILE 5.57 5.56 5.58	FIXED MARITIME MOBILE 5.57 Land Mobile A02 5.56 5.58
70 - 72 kHz	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60 Land Mobile A02
72 - 84 kHz	FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60 5.56	FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60 Land Mobile A02 5.56
84 - 86 kHz	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60 Land Mobile A02
86 - 90 kHz	FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.56	FIXED MARITIME MOBILE 5.57 RADIONAVIGATION Land Mobile A02 5.56
90 - 110 kHz	RADIONAVIGATION 5.62 Fixed 5.64	RADIONAVIGATION 5.62 Fixed Land Mobile A02 5.64
110 - 112 kHz	FIXED MARITIME MOBILE RADIONAVIGATION 5.64	FIXED MARITIME MOBILE RADIONAVIGATION Land Mobile A02 5.64
112 - 115 kHz	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60 Land Mobile A02
115 - 117.6 kHz	RADIONAVIGATION 5.60 Fixed Maritime Mobile 5.64 5.66	RADIONAVIGATION 5.60 Fixed Maritime Mobile Land Mobile A02 5.64 5.66

117.6 - 126 kHz	FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64	FIXED MARITIME MOBILE RADIONAVIGATION 5.60 Land Mobile A02 5.64
126 - 129 kHz	RADIONAVIGATION 5.60	RADIONAVIGATION 5.60 Land Mobile A02
129 - 130 kHz	FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64	FIXED MARITIME MOBILE RADIONAVIGATION 5.60 Land Mobile A02 5.64
130 – 135.7 kHz	FIXED MARITIME MOBILE 5.64 5.67	FIXED MARITIME MOBILE Land Mobile A02 5.64
135.7 – 137.8 kHz	FIXED MARITIME MOBILE Amateur 5.67A 5.64 5.67 5.67B	FIXED MARITIME MOBILE Amateur 5.67A Land Mobile A02 5.64 5.67B
137.8 – 148.5 kHz	FIXED MARITIME MOBILE 5.64 5.67	FIXED MARITIME MOBILE Land Mobile A02 5.64
148.5 - 255 kHz	BROADCASTING 5.68 5.69 5.70	BROADCASTING Land Mobile A02
255 - 283.5 kHz	BROADCASTING AERONAUTICAL RADIONAVIGATION 5.70 5.71	BROADCASTING AERONAUTICAL RADIONAVIGATION Land Mobile A02 5.71
283.5 - 315 kHz	AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73 5.74	AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73 Land Mobile A02 5.74
315 - 325 kHz	AERONAUTICAL RADIONAVIGATION Maritime Radionavigation (radiobeacons) 5.73 5.75	AERONAUTICAL RADIONAVIGATION Maritime Radionavigation (radiobeacons) 5.73 Land Mobile A02 5.75
325 - 405 kHz	AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION Land Mobile A02
405 – 415 kHz	RADIONAVIGATION 5.76	RADIONAVIGATION 5.76 Land Mobile A02
415 - 435 kHz	MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION	MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION Land Mobile A02

435 – 472 kHz	MARITIME MOBILE 5.79 Aeronautical radionavigation 5.82	MARITIME MOBILE 5.79 Aeronautical radionavigation Land Mobile A02 5.82
472 – 479 kHz	MARITIME MOBILE 5.79 Amateur 5.80A Aeronautical radionavigation 5.82 5.80B	MARITIME MOBILE 5.79 Amateur 5.80A Aeronautical radionavigation Land Mobile A02 5.82 5.80B
479 - 495 kHz	MARITIME MOBILE 5.79 5.79A Aeronautical radionavigation 5.82	MARITIME MOBILE 5.79 5.79A Aeronautical radionavigation Land Mobile A02 5.82
495 - 505 kHz	MARITIME MOBILE	MOBILE A01
505 - 526.5 kHz	MARITIME MOBILE 5.79 5.79A 5.84 AERONAUTICAL RADIONAVIGATION	MARITIME MOBILE 5.79 5.79A 5.84 AERONAUTICAL RADIONAVIGATION Land Mobile A02
526.5 - 1606.5 kHz	BROADCASTING 5.87 5.87A	BROADCASTING Land Mobile A02
1606.5 - 1625 kHz	FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92	FIXED MARITIME MOBILE 5.90 LAND MOBILE Radiolocation A01 5.92
1625 - 1635 kHz	RADIOLOCATION 5.93	RADIOLOCATION Land Mobile A02 5.93
1635 - 1800 kHz	FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92 5.96	FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92 5.96
1800 - 1810 kHz	RADIOLOCATION 5.93	RADIOLOCATION Land Mobile A02 5.93
1810 - 1850 kHz	AMATEUR 5.98 5.99 5.100 5.101	FIXED (1 810-1 830 kHz) 5.99 Amateur (1810 – 1830 kHz) AMATEUR (1830 – 1850 kHz) Land Mobile A02 5.98 5.100
1850 - 2000 kHz	FIXED MOBILE except aeronautical mobile 5.92 5.96 5.103	FIXED MOBILE except aeronautical mobile Amateur (1850 - 1950 kHz) 5.96 5.92 5.103
2000 - 2025 kHz	FIXED MOBILE except aeronautical mobile (R) 5.92 5.103	FIXED MOBILE except aeronautical mobile (R) 5.92 5.103

2025 - 2045 kHz	FIXED MOBILE except aeronautical mobile (R) Meteorological Aids 5.104 5.92 5.103	FIXED MOBILE except aeronautical mobile (R) Meteorological Aids 5.104 5.92 5.103
2045 - 2160 kHz	FIXED MARITIME MOBILE LAND MOBILE 5.92	FIXED MARITIME MOBILE LAND MOBILE 5.92
2160 - 2170 kHz	RADIOLOCATION 5.93 5.107	RADIOLOCATION Land Mobile A02 5.93
2170 - 2173.5 kHz	MARITIME MOBILE	MARITIME MOBILE Land Mobile A02
2173.5 - 2190.5 kHz	MOBILE (distress and calling) 5.108 5.109 5.228 5.111	MOBILE (distress and calling) Land Mobile A02 5.108 5.109 5.228 5.111
2190.5 - 2194 kHz	MARITIME MOBILE	MARITIME MOBILE Land Mobile A02
2194 - 2300 kHz	FIXED MOBILE except aeronautical mobile (R) 5.92 5.103 5.112	FIXED MOBILE except aeronautical mobile (R) 5.92 5.103 5.112
2300 - 2498 kHz	FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.103	FIXED MOBILE except aeronautical mobile (R) 5.103 5.113
2498 - 2501 kHz	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz) Land Mobile A02
2501 - 2502 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL Space Research Land Mobile A02
2502 - 2625 kHz	FIXED MOBILE except aeronautical mobile (R) 5.92 5.103 5.114	FIXED MOBILE except aeronautical mobile (R) 5.92 5.103 5.114
2625 - 2650 kHz	MARITIME MOBILE MARITIME RADIONAVIGATION 5.92	MARITIME MOBILE MARITIME RADIONAVIGATION Land Mobile A02 5.92
2650 - 2850 kHz	FIXED MOBILE except aeronautical mobile (R) 5.92 5.103	FIXED MOBILE except aeronautical mobile (R) 5.92 5.103
2850 - 3025 kHz	AERONAUTICAL MOBILE (R) 5.111 5.115	AERONAUTICAL MOBILE (R) Land Mobile A02 5.111 5.115
3025 - 3155 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) Land Mobile A02
3155 - 3200 kHz	FIXED MOBILE except aeronautical mobile (R) 5.116 5.117	FIXED MOBILE except aeronautical mobile (R) 5.116 5.117

3200 - 3230 kHz	FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.116	FIXED MOBILE except aeronautical mobile (R) 5.116 5.113
3230 - 3400 kHz	FIXED MOBILE except aeronautical mobile BROADCASTING 5.113 5.116 5.118	FIXED MOBILE except aeronautical mobile 5.116 5.113
3400 - 3500 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) Land Mobile A02
3500 - 3800 kHz	AMATEUR FIXED MOBILE except aeronautical mobile 5.92	AMATEUR Fixed Mobile except aeronautical mobile 5.92
3800 - 3900 kHz	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE
3900 - 3950 kHz	AERONAUTICAL MOBILE (OR) 5.123	AERONAUTICAL MOBILE (OR) Land Mobile A02
3950 - 4000 kHz	FIXED BROADCASTING	FIXED BROADCASTING Land Mobile A02
4000 - 4063 kHz	FIXED MARITIME MOBILE 5.127 5.126	FIXED MARITIME MOBILE 5.127 Land Mobile A02
4063 - 4438 kHz	MARITIME MOBILE 5.79A 5.109 5.228 5.130 5.131 5.132 5.128	MARITIME MOBILE 5.79A 5.109 5.228 5.130 5.131 5.132 Land Mobile A02 5.128
4438 - 4488 kHz	FIXED MOBILE except Aeronautical Mobile (R) Radiolocation 5.132A 5.132B	FIXED MOBILE except aeronautical mobile (R) 5.132B
4488 - 4650 kHz	FIXED MOBILE except Aeronautical Mobile (R)	FIXED MOBILE except aeronautical mobile (R)
4650 - 4700 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) Land Mobile A02
4700 - 4750 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) Land Mobile A02
4750 - 4850 kHz	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING 5.113	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE 5.113
4850 - 4995 kHz	FIXED LAND MOBILE BROADCASTING 5.113	FIXED LAND MOBILE 5.113
4995 - 5003 kHz	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz) Land Mobile A02
5003 - 5005 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL Space Research Land Mobile A02

5005 - 5060 kHz	FIXED BROADCASTING 5.113	FIXED Land Mobile A02 5.113
5060 - 5250 kHz	FIXED Mobile except aeronautical mobile 5.133	FIXED Mobile except aeronautical mobile 5.133
5250 - 5275 kHz	FIXED MOBILE except aeronautical mobile Radiolocation 5.132A 5.133A	FIXED MOBILE except aeronautical mobile 5.133A
5275 – 5351,3 kHz	FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile
5351,3 – 5366,5 kHz	FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile Amateur 5.113B
5366,5 – 5450 kHz	FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile
5450 - 5480 kHz	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE
5480 - 5680 kHz	AERONAUTICAL MOBILE (R) 5.111 5.115	AERONAUTICAL MOBILE (R) Land Mobile A02 5.111 5.115
5680 - 5730 kHz	AERONAUTICAL MOBILE (OR) 5.111 5.115	AERONAUTICAL MOBILE (OR) Land Mobile A02 5.111 5.115
5730 - 5900 kHz	FIXED LAND MOBILE	FIXED LAND MOBILE
5900 - 5950 kHz	BROADCASTING 5.134 5.136	BROADCASTING 5.134 Fixed 5.136 Land Mobile 5.136
5950 - 6200 kHz	BROADCASTING	BROADCASTING Land Mobile A02
6200 - 6525 kHz	MARITIME MOBILE 5.109 5.228 5.130 5.132 5.137	MARITIME MOBILE 5.109 5.228 5.130 5.132 Land Mobile A02 5.137
6525 - 6685 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) Land Mobile A02
6685 - 6765 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) Land Mobile A02
6765 - 7000 kHz	FIXED MOBILE except aeronautical mobile (R) 5.138 5.138A 5.139	FIXED MOBILE except aeronautical mobile (R) 5.138 5.139
7000 - 7100 kHz	AMATEUR AMATEUR-SATELLITE 5.140 5.141 5.141A	AMATEUR AMATEUR-SATELLITE Land Mobile A02
7100 - 7200 kHz	AMATEUR 5.141A 5.141B 5.141C 5.142	AMATEUR Land Mobile A02 5.141B

7200 - 7300 kHz	BROADCASTING	BROADCASTING Land Mobile A02
7300 - 7400 kHz	BROADCASTING 5.134 5.143 5.143A 5.143B 5.143C 5.143D	BROADCASTING 5.134 Fixed (7350 - 7400 kHz) 5.143B Land Mobile (7300 – 7350 kHz) A02 Land Mobile (7350 – 7400 kHz) 5.143B 5.143 5.143C
7400 - 7450 kHz	BROADCASTING 5.143B 5.143C	BROADCASTING Fixed 5.143B Land Mobile 5.143B 5.143C
7450 - 8100 kHz	FIXED MOBILE except aeronautical mobile (R) 5.143E 5.144	FIXED 5.143E MOBILE except aeronautical mobile (R) 5.143E
8100 - 8195 kHz	FIXED MARITIME MOBILE	FIXED MARITIME MOBILE Land Mobile A02
8195 - 8815 kHz	MARITIME MOBILE 5.109 5.228 5.132 5.145 5.111	MARITIME MOBILE 5.109 5.228 5.132 5.145 Land Mobile A02 5.111
8815 - 8965 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) Land Mobile A02
8965 - 9040 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) Land Mobile A02
9040 - 9305 kHz	FIXED	FIXED Land Mobile A02
9305 – 9355 kHz	FIXED Radiolocation 5.145A 5.145B	FIXED Land Mobile A02 5.145B
9355 – 9400 kHz	FIXED	FIXED Land Mobile A02
9400 - 9500 kHz	BROADCASTING 5.134 5.146	BROADCASTING 5.134 Fixed 5.146 Land Mobile A02
9500 - 9900 kHz	BROADCASTING 5.147	BROADCASTING Fixed (9775 - 9900 kHz) 5.147 Land Mobile A02
9900 - 9995 kHz	FIXED	FIXED Land Mobile A02
9995 - 10003 kHz	STANDARD FREQUENCY AND TIME SIGNAL (10000 kHz) 5.111	STANDARD FREQUENCY AND TIME SIGNAL (10000 kHz) Land Mobile A02 5.111
10003 - 10005 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111	STANDARD FREQUENCY AND TIME SIGNAL Space Research Land Mobile A02 5.111
10005 - 10100 kHz	AERONAUTICAL MOBILE (R) 5.111	AERONAUTICAL MOBILE (R) Land Mobile A02 5.111

10100 - 10150 kHz	FIXED Amateur	FIXED Amateur Land Mobile A02
10150 - 11175 kHz	FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile (R)
11175 - 11275 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) Land Mobile A02
11275 - 11400 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) Land Mobile A02
11400 - 11600 kHz	FIXED	FIXED Land Mobile A02
11600 - 11650 kHz	BROADCASTING 5.134 5.146	BROADCASTING 5.134 Fixed 5.146 Land Mobile A02
11650 - 12050 kHz	BROADCASTING 5.147	BROADCASTING Fixed (11650 - 11700 kHz) 5.147 Fixed (11975 - 12050 kHz) 5.147 Land Mobile A02
12050 - 12100 kHz	BROADCASTING 5.134 5.146	BROADCASTING 5.134 Fixed 5.146 Land Mobile A02
12100 - 12230 kHz	FIXED	FIXED Land Mobile A02
12230 - 13200 kHz	MARITIME MOBILE 5.109 5.228 5.132 5.145	MARITIME MOBILE 5.109 5.228 5.132 5.145 Land Mobile A02
13200 - 13260 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) Land Mobile A02
13260 - 13360 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) Land Mobile A02
13360 - 13410 kHz	FIXED RADIO ASTRONOMY 5.149	FIXED Land Mobile A02 5.149
13410 - 13450 kHz	FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile (R)
13450 - 13550 kHz	FIXED Mobile except aeronautical mobile (R) Radiolocation 5.132A 5.149A	FIXED Mobile except aeronautical mobile (R) 5.149A
13550 - 13570 kHz	FIXED Mobile except aeronautical mobile (R) 5.150	FIXED Mobile except aeronautical mobile (R) 5.150
13570 - 13600 kHz	BROADCASTING 5.134 5.151	BROADCASTING 5.134 Fixed 5.151 Mobile except aeronautical mobile (R) 5.151
13600 - 13800 kHz	BROADCASTING	BROADCASTING Land Mobile A02
13800 - 13870 kHz	BROADCASTING 5.134 5.151	BROADCASTING 5.134 Fixed 5.151 Mobile except aeronautical mobile (R) 5.151
13870 - 14000 kHz	FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile (R)
14000 - 14250 kHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE Land Mobile A02

14250 - 14350 kHz	AMATEUR 5.152	AMATEUR Land Mobile A02 5.152
14350 - 14990 kHz	FIXED Mobile except aeronautical mobile (R)	FIXED Mobile except aeronautical mobile (R)
14990 - 15005 kHz	STANDARD FREQUENCY AND TIME SIGNAL (15000 kHz) 5.111	STANDARD FREQUENCY AND TIME SIGNAL (15000 kHz) Land Mobile A02 5.111
15005 - 15010 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL Space Research Land Mobile A02
15010 - 15100 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) Land Mobile A02
15100 - 15600 kHz	BROADCASTING	BROADCASTING Land Mobile A02
15600 - 15800 kHz	BROADCASTING 5.134 5.146	BROADCASTING 5.134 Fixed 5.146 Land Mobile A02
15800 - 16100 kHz	FIXED 5.153	FIXED Land Mobile A02
16100 - 16200 kHz	FIXED Radiolocation 5.145A 5.145B	FIXED Land Mobile A02 5.145B
16200 - 16360 kHz	FIXED	FIXED Land Mobile A02
16360 - 17410 kHz	MARITIME MOBILE 5.109 5.228 5.132 5.145	MARITIME MOBILE 5.109 5.228 5.132 5.145 Land Mobile A02
17410 - 17480 kHz	FIXED	FIXED Land Mobile A02
17480 - 17550 kHz	BROADCASTING 5.134 5.146	BROADCASTING 5.134 Fixed 5.146 Land Mobile A02
17550 - 17900 kHz	BROADCASTING	BROADCASTING Land Mobile A02
17900 - 17970 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) Land Mobile A02
17970 - 18030 kHz	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) Land Mobile A02
18030 - 18052 kHz	FIXED	FIXED Land Mobile A02
18052 - 18068 kHz	FIXED Space Research	FIXED Land Mobile A02
18068 - 18168 kHz	AMATEUR AMATEUR-SATELLITE 5.154	AMATEUR AMATEUR-SATELLITE Land Mobile A02 5.154
18168 - 18780 kHz	FIXED Mobile except aeronautical mobile	FIXED Mobile except aeronautical mobile
18780 - 18900 kHz	MARITIME MOBILE	MARITIME MOBILE Land Mobile A02
18900 - 19020 kHz	BROADCASTING 5.134 5.146	BROADCASTING 5.134 Fixed 5.146 Land Mobile A02

19020 - 19680 kHz	FIXED	FIXED Land Mobile A02
19680 - 19800 kHz	MARITIME MOBILE 5.132	MARITIME MOBILE 5.132 Land Mobile A02
19800 - 19990 kHz	FIXED	FIXED Land Mobile A02
19990 - 19995 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research 5.111	STANDARD FREQUENCY AND TIME SIGNAL Space Research Land Mobile A02 5.111
19995 - 20010 kHz	STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz) 5.111	STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz) Land Mobile A02 5.111
20010 - 21000 kHz	FIXED Mobile	FIXED Mobile
21000 - 21450 kHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE Land Mobile A02
21450 - 21850 kHz	BROADCASTING	BROADCASTING Land Mobile A02
21850 - 21870 kHz	FIXED 5.155A 5.155	FIXED 5.155A Land Mobile A02 5.155
21870 - 21924 kHz	FIXED 5.155B	FIXED 5.155B Land Mobile A02
21924 - 22000 kHz	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) Land Mobile A02
22000 - 22855 kHz	MARITIME MOBILE 1 5.132 5.156	MARITIME MOBILE 5.132 Land Mobile A02 5.156
22855 - 23000 kHz	FIXED 5.156	FIXED Land Mobile A02 5.156
23000 - 23200 kHz	FIXED Mobile except aeronautical mobile (R) 5.156	FIXED Mobile except aeronautical mobile (R)
23200 - 23350 kHz	FIXED 5.156A AERONAUTICAL MOBILE (OR)	FIXED 5.156A AERONAUTICAL MOBILE (OR) Land Mobile A02
23350 - 24000 kHz	FIXED MOBILE except aeronautical mobile 5.157	FIXED MOBILE except aeronautical mobile 5.157
24000 - 24450 kHz	FIXED LAND MOBILE	FIXED LAND MOBILE
24450 – 24600 kHz	FIXED LAND MOBILE Radiolocation 5.132A 5.158	FIXED LAND MOBILE 5.158
24600 – 24890 kHz	FIXED LAND MOBILE	FIXED LAND MOBILE
24890 - 24990 kHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE Land Mobile A02

24990 - 25005 kHz	STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz) Land Mobile A02
25005 - 25010 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research	STANDARD FREQUENCY AND TIME SIGNAL Space Research Land Mobile A02
25010 - 25070 kHz	FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile
25070 - 25210 kHz	MARITIME MOBILE	MARITIME MOBILE Land Mobile A02
25210 - 25550 kHz	FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile
25550 - 25670 kHz	RADIO ASTRONOMY 5.149	RADIO ASTRONOMY Land Mobile A02 5.149
25670 - 26100 kHz	BROADCASTING	BROADCASTING Land Mobile A02
26100 - 26175 kHz	MARITIME MOBILE 5.132	MARITIME MOBILE 5.132 Land Mobile A02
26175 - 26200 kHz	FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile
26200 – 26350 kHz	FIXED MOBILE except aeronautical mobile Radiolocation 5.132A 5.133A	FIXED MOBILE except aeronautical mobile 5.133A
26350 – 27500 kHz	FIXED MOBILE except aeronautical mobile 5.150	FIXED MOBILE except aeronautical mobile 5.150
27.5 - 28 MHz	METEOROLOGICAL AIDS FIXED MOBILE	METEOROLOGICAL AIDS FIXED MOBILE
28 - 29.7 MHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE Land Mobile A02
29.7 - 30.005 MHz	FIXED MOBILE	MOBILE
30.005 - 30.01 MHz	SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH	MOBILE
30.01 - 37.5 MHz	FIXED MOBILE	MOBILE
37.5 - 38.25 MHz	FIXED MOBILE Radio Astronomy 5.149	MOBILE Radio Astronomy 5.149
38.25 – 39 MHz	FIXED MOBILE	MOBILE
39 – 39.5 MHz	FIXED MOBILE Radiolocation 5.132A 5.159	MOBILE 5.159
39.5 – 39.986 MHz	FIXED MOBILE	MOBILE

39.986 - 40.02 MHz	FIXED MOBILE Space Research	MOBILE Space Research
40.02 - 40.98 MHz	FIXED MOBILE 5.150	MOBILE 5.150
40.98 - 41.015 MHz	FIXED MOBILE Space Research 5.160 5.161	MOBILE Space Research
41.015 - 42 MHz	FIXED MOBILE 5.160 5.161	MOBILE
42 – 42.5 MHz	FIXED MOBILE Radiolocation 5.132A 5.159 5.161B	MOBILE 5.159 5.161B
42.5 - 44 MHz	FIXED MOBILE 5.160 5.161	MOBILE
44 - 47 MHz	FIXED MOBILE 5.162 5.162A	MOBILE 5.162A
47 - 68 MHz	BROADCASTING 5.162A 5.163 5.164 5.165 5.169 5.171	BROADCASTING LAND MOBILE 5.164 Amateur (50 - 52 MHz) A01 5.162A 5.163
68 - 74.8 MHz	FIXED MOBILE except aeronautical mobile 5.149 5.175 5.176 5.177 5.179	MOBILE (68 - 70.450 MHz) A01 MOBILE except aeronautical mobile (70.450 - 74.8 MHz) Radio astronomy (70.450 – 74.8 MHz) A01 5.149 5.179
74.8 - 75.2 MHz	AERONAUTICAL RADIONAVIGATION 5.180 5.181	AERONAUTICAL RADIONAVIGATION 5.180
75.2 - 87.5 MHz	FIXED MOBILE except aeronautical mobile 5.175 5.179 5.187	MOBILE A01 5.179
87.5 - 100 MHz	BROADCASTING 5.190	BROADCASTING Land Mobile A02
100 - 108 MHz	BROADCASTING 5.192 5.194	BROADCASTING Land Mobile A02
108 - 117.975 MHz	AERONAUTICAL RADIONAVIGATION 5.197 5.197A	AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE (R) 5.197A

117.975 - 137 MHz	AERONAUTICAL MOBILE (R) 5.111 5.200 5.201 5.202	AERONAUTICAL MOBILE (R) 5.111 5.200 5.201 5.202
137 - 137.025 MHz	SPACE OPERATION (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-Earth) Fixed Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	METEOROLOGICAL-SATELLITE (space-Earth) MOBILE A01 MOBILE-SATELLITE (space-Earth) 5.208A 5.208B 5.209 Space operation (space-Earth) A01 Space research (space-Earth) A01 5.206 5.208
137.025 – 137.175 MHz	SPACE OPERATION (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Fixed Mobile-satellite (space-Earth) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	METEOROLOGICAL-SATELLITE (space-Earth) MOBILE A01 MOBILE-SATELLITE (space-Earth) 5.208A 5.208B 5.209 Space operation (space-Earth) A01 Space research (space-Earth) A01 5.206 5.208
137.175 - 137.825 MHz	SPACE OPERATION (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-Earth) Fixed Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	METEOROLOGICAL-SATELLITE (space-Earth) MOBILE A01 MOBILE-SATELLITE (space-Earth) 5.208A 5.208B 5.209 Space operation (space-Earth) A01 Space research (space-Earth) A01 5.206 5.208
137.825 - 138 MHz	SPACE OPERATION (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Fixed Mobile-Satellite (space-Earth) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	METEOROLOGICAL-SATELLITE (space-Earth) MOBILE A01 Mobile-Satellite (space-Earth) 5.208A 5.208B 5.209 Space operation (space-Earth) A01 Space research (space-Earth) A01 5.206 5.208
138 - 143.6 MHz	AERONAUTICAL MOBILE (OR) 5.210 5.211 5.212 5.214	AERONAUTICAL MOBILE (OR) LAND MOBILE 5.211 Space research (space-Earth) A01 5.210
143.6 - 143.65 MHz	AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-Earth) 5.211 5.212 5.214	AERONAUTICAL MOBILE (OR) LAND MOBILE 5.211 SPACE RESEARCH (space-Earth)
143.65 - 144 MHz	AERONAUTICAL MOBILE (OR) 5.210 5.211 5.212 5.214	AERONAUTICAL MOBILE (OR) LAND MOBILE 5.211 5.210
144 - 146 MHz	AMATEUR AMATEUR-SATELLITE 5.216	AMATEUR AMATEUR-SATELLITE

146 - 148 MHz	FIXED MOBILE except aeronautical mobile (R)	MOBILE A01
148 - 149.9 MHz	FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-space) 5.209 5.218 5.219 5.221	MOBILE A01 MOBILE-SATELLITE (Earth-space) 5.209 5.221 5.218 5.219
149.9 - 150.05 MHz	MOBILE-SATELLITE (Earth-space) 5.209 5.220	MOBILE A01 MOBILE-SATELLITE (Earth-space) 5.209 5.220
150.05 - 153 MHz	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149	MOBILE except aeronautical mobile 5.149
153 - 154 MHz	FIXED MOBILE except aeronautical mobile (R) Meteorological Aids	MOBILE except aeronautical mobile (R)
154 - 156.4875 MHz	FIXED MOBILE except aeronautical mobile (R) 5.226 5.225A	MOBILE except aeronautical mobile (R) MARITIME MOBILE 5.226 5.225A
156.4875 - 156.5625 MHz	MARITIME MOBILE (distress and calling via DSC) 5.111 5.226 5.227	MARITIME MOBILE (distress and calling via DSC) LAND MOBILE 5.227 5.111 5.226
156.5625 - 156.7625 MHz	FIXED MOBILE except aeronautical mobile (R) 5.226	MOBILE except aeronautical mobile (R) MARITIME MOBILE 5.226
156.7625 - 156.7875 MHz	MARITIME MOBILE Mobile-satellite (Earth-space) 5.111 5.226 5.228	MARITIME MOBILE Mobile-satellite (Earth-space) 5.111 5.226 5.228
156.7875 - 156.8125 MHz	MARITIME MOBILE (distress and calling) 5.111 5.226	MARITIME MOBILE (distress and calling) 5.111 5.226
156.8125 - 156.8375 MHz	MARITIME MOBILE Mobile-satellite (Earth-space) 5.111 5.226 5.228	MARITIME MOBILE Mobile-satellite (Earth-space) 5.111 5.226 5.228
156.8375 - 161,9375 MHz	FIXED MOBILE except aeronautical mobile 5.226	FIXED MOBILE except aeronautical mobile 5.226
161,9375 - 161.9625 MHz	FIXED MOBILE except aeronautical mobile Maritime mobile-satellite 5.228AA 5.226	FIXED MOBILE except aeronautical mobile Maritime mobile-satellite 5.228A 5.226
161.9625 - 161.9875 MHz	FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-space) 5.228F 5.226 5.228A 5.228B	FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-space) 5.228F 5.226 5.228A 5.228B

161.9875 - 162.0125 MHz	FIXED MOBILE except aeronautical mobile Maritime mobile-satellite 5.228AA 5.226 5.229	FIXED MOBILE except aeronautical mobile Maritime mobile-satellite 5.228AA 5.226
162.0125 - 162.0375 MHz	FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-space) 5.228F 5.226 5.229 5.228A 5.228B	FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-space) 5.228F 5.226 5.228A 5.228B
162.0375 - 174 MHz	FIXED MOBILE except aeronautical mobile 5.226	MOBILE except aeronautical mobile 5.226
174 - 223 MHz	BROADCASTING 5.235 5.237 5.243	BROADCASTING LAND MOBILE 5.235
223 - 230 MHz	BROADCASTING Fixed Mobile 5.243 5.246 5.247	BROADCASTING Land Mobile (225 – 230 MHz) A01
230 - 235 MHz	FIXED MOBILE 5.247 5.251 5.252	MOBILE
235 - 267 MHz	FIXED MOBILE 5.111 5.252 5.254 5.256 5.256A	MOBILE AERONAUTICAL MOBILE (242,95 – 243,05 MHz) 5.256 5.111 5.254
267 - 272 MHz	FIXED MOBILE Space Operation (space-Earth) 5.254 5.257	MOBILE 5.254 5.257
272 - 273 MHz	SPACE OPERATION (space-Earth) FIXED MOBILE 5.254	MOBILE 5.254
273 - 312 MHz	FIXED MOBILE 5.254	MOBILE 5.254
312 - 315 MHz	FIXED MOBILE Mobile-Satellite (Earth-space) 5.254 5.255	MOBILE 5.254 5.255
315 - 322 MHz	FIXED MOBILE 5.254	MOBILE 5.254
322 - 328.6 MHz	FIXED MOBILE RADIO ASTRONOMY 5.149	MOBILE 5.149
328.6 - 335.4 MHz	AERONAUTICAL RADIONAVIGATION 5.258 5.259	AERONAUTICAL RADIONAVIGATION 5.258

335.4 - 387 MHz	FIXED MOBILE 5.254	FIXED MOBILE 5.254
387 - 390 MHz	FIXED MOBILE Mobile-Satellite (space-Earth) 5.208A 5.208B 5.254 5.255	MOBILE 5.208A 5.208B 5.254 5.255
390 - 399.9 MHz	FIXED MOBILE 5.254	MOBILE 5.254
399.9 - 400.05 MHz	MOBILE-SATELLITE (Earth-space) 5.209 5.220	MOBILE-SATELLITE (Earth-space) 5.209 5.220
400.05 - 400.15 MHz	STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) 5.261 5.262	STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) 5.261 5.262
400.15 - 401 MHz	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-Earth) 5.263 Space Operation (space-Earth) 5.262 5.264	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-Earth) 5.263 SPACE OPERATION (space-Earth) A01 5.262 5.264
401 - 402 MHz	METEOROLOGICAL AIDS SPACE OPERATION (space-Earth) EARTH EXPLORATION-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) Fixed Mobile except aeronautical mobile	METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) Mobile except aeronautical mobile
402 - 403 MHz	METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) Fixed Mobile except aeronautical mobile	METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) Mobile except aeronautical mobile
403 - 406 MHz	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile 5.265	METEOROLOGICAL AIDS Mobile except aeronautical mobile 5.265
406 - 406.1 MHz	MOBILE-SATELLITE (Earth-space) 5.266 5.267 5.265	MOBILE-SATELLITE (Earth-space) 5.266 5.267 5.265
406.1 - 410 MHz	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.265	FIXED LAND MOBILE A01 5.149 5.265

410 - 420 MHz	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-space) 5.268	FIXED MOBILE except aeronautical mobile
420 - 430 MHz	FIXED MOBILE except aeronautical mobile Radiolocation 5.269 5.270 5.271	FIXED MOBILE except aeronautical mobile
430 - 432 MHz	AMATEUR RADIOLOCATION 5.271 5.272 5.273 5.274 5.275 5.276 5.277	AMATEUR 5.275 5.276 5.277
432 - 438 MHz	AMATEUR RADIOLOCATION Earth exploration-satellite (active) 5.279A 5.138 5.271 5.272 5.276 5.277 5.280 5.281 5.282	AMATEUR AMATEUR-SATELLITE (435 - 438 MHz) 5.282 Land Mobile A01 Earth exploration-satellite (active) 5.279A 5.138 5.276 5.277 5.280 (433.05 - 434.79 MHz: ISM)
438 - 440 MHz	AMATEUR RADIOLOCATION 5.271 5.273 5.274 5.275 5.276 5.277 5.283	AMATEUR (438 - 439.1 MHz) MOBILE 5.283 Amateur (439.1 - 440 MHz) 5.275 5.276 5.277
440 - 450 MHz	FIXED MOBILE except aeronautical mobile Radiolocation 5.269 5.270 5.271 5.284 5.285 5.286	FIXED MOBILE except aeronautical mobile 5.286
450 - 455 MHz	FIXED MOBILE 5.286AA 5.209 5.271 5.286 5.286A 5.286B 5.286C 5.286D 5.286E	FIXED (450 – 451,3 MHz) MOBILE 5.286AA 5.209 5.286 5.286A
455 - 456 MHz	FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	MOBILE 5.286AA 5.209 5.286A
456 - 459 MHz	FIXED MOBILE 5.286AA 5.271 5.287 5.288	MOBILE 5.286AA 5.287
459 - 460 MHz	FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	MOBILE 5.286AA 5.209 5.286A
460 - 470 MHz	FIXED MOBILE 5.286AA Meteorological-Satellite (space-Earth) 5.287 5.288 5.289	FIXED (460 – 461,3 MHz) MOBILE 5.286AA 5.287 5.289

470 - 694 MHz	BROADCASTING 5.149 5.291A 5.294 5.296 5.300 5.304 5.306 5.311A 5.312	BROADCASTING Mobile 5.296 Radiolocation (470-494 MHz) 5.291A Radio Astronomy (608 – 614 MHz) 5.149 5.306 5.311A 5.312
694 - 790 MHz	MOBILE except aeronautical mobile 5.312A 5.317A BROADCASTING 5.300 5.311A 5.312	MOBILE except aeronautical mobile 5.312A 5.317A BROADCASTING (until 1 January 2020) 5.311A 5.312
790 - 862 MHz	FIXED BROADCASTING MOBILE except aeronautical mobile 5.316B 5.317A 5.319	MOBILE except aeronautical mobile 5.316B 5.317A 5.319
862 - 890 MHz	FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322 5.319 5.323	MOBILE 5.317A A01 5.319 5.322
890 - 942 MHz	FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322 Radiolocation 5.323	MOBILE 5.317A A01 Radiolocation
942 - 960 MHz	FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322 5.323	MOBILE 5.317A A01
960 - 1164 MHz	AERONAUTICAL RADIONAVIGATION 5.328 AERONAUTICAL MOBILE (R) 5. 327A 5.328AA	AERONAUTICAL RADIONAVIGATION 5.328 AERONAUTICAL MOBILE (R) 5. 327A AERONAUTICAL MOBILE-SATELLITE (R) 5.328AA
1164 – 1215 MHz	AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-Earth) (space-space) 5.328B 5.328A	AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-Earth) (space-space) 5.328B 5.328A
1215 - 1240 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space -Earth) (space-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) 5.330 5.331 5.332	EARTH EXPLORATION-SATELLITE (active) 5.332 RADIOLOCATION RADIONAVIGATION-SATELLITE (space-Earth) (space-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) RADIONAVIGATION 5.331 5.332

1240 - 1300 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-Earth) (space-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.330 5.331 5.332 5.335 5.335A	EARTH EXPLORATION-SATELLITE (active) 5.335A RADIOLOCATION RADIONAVIGATION 5.331 RADIONAVIGATION-SATELLITE (space-Earth) (space-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) 5.335A Amateur Amateur Satellite (Earth-space) (1260 – 1270 MHz) 5.282 5.332
1300 - 1350 MHz	AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (Earth-space) 5.149 5.337A	AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION 5.337A RADIONAVIGATION-SATELLITE (Earth-space) 5.337A 5.149
1350 - 1400 MHz	FIXED MOBILE RADIOLOCATION 5.149 5.338 5.338A 5.339	FIXED MOBILE RADIOLOCATION 5.149 5.338 5.338A 5.339
1400 - 1427 MHz	EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
1427 - 1429 MHz	SPACE OPERATION (Earth-space) FIXED MOBILE except aeronautical mobile 5.R1a 5.338A 5.341	SPACE OPERATION (Earth-space) FIXED MOBILE except aeronautical mobile 5.R1a 5.338A
1429 - 1452 MHz	FIXED MOBILE except aeronautical mobile 5.R1a 5.338A 5.341 5.342	FIXED MOBILE except aeronautical mobile 5.R1a 5.338A
1452 - 1492 MHz	FIXED MOBILE except aeronautical mobile BROADCASTING 5.345 BROADCASTING-SATELLITE 5.208B 5.345 5.341 5.342	BROADCASTING 5.345 BROADCASTING-SATELLITE (1479.5 – 1492 MHz) 5.208B 5.345 MOBILE except aeronautical mobile Fixed (1452 – 1464,5 MHz)
1492 - 1518 MHz	FIXED MOBILE except aeronautical mobile 5.R1a 5.341 5.342	FIXED MOBILE except aeronautical mobile 5.R1a
1518 - 1525 MHz	FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (space-Earth) 5.348 5.348A 5.348B 5.351A 5.341 5.342	FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (space-Earth) 5.348 5.351A

1525 - 1530 MHz	SPACE OPERATION (space-Earth) FIXED MOBILE-SATELLITE (space-Earth) 5.208B 5.351A Earth Exploration-satellite Mobile except aeronautical mobile 5.349 5.341 5.342 5.350 5.351 5.352A 5.354	FIXED MOBILE-SATELLITE (space-Earth) 5.208B 5.351A SPACE OPERATION (space-Earth) 5.351 5.352A 5.354
1530 - 1535 MHz	SPACE OPERATION (space-Earth) MOBILE-SATELLITE (space-Earth) 5.208B 5.351A 5.353A Earth Exploration-satellite Fixed Mobile except aeronautical mobile 5.341 5.342 5.351 5.354	MOBILE-SATELLITE (space-Earth) 5.208B 5.351A 5.353A SPACE OPERATION (space-Earth) Earth Exploration-satellite Mobile except aeronautical mobile 5.351 5.354
1535 - 1559 MHz	MOBILE-SATELLITE (space-Earth) 5.208B 5.351A 5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A	MOBILE-SATELLITE (space-Earth) 5.208B 5.351A 5.351 5.353A 5.354 5.356 5.357 5.357A
1559 - 1610 MHz	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space- Earth) (space-space) 5.208B 5.328B 5.329A 5.341	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-Earth) (space-space) 5.208B 5.328B 5.329A
1610 - 1610.6 MHz	MOBILE-SATELLITE (Earth-space) 5.351A AERONAUTICAL RADIONAVIGATION 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	MOBILE-SATELLITE (Earth-space) 5.351A 5.364 AERONAUTICAL RADIONAVIGATION 5.366 5.367 5.368 5.371 5.372
1610.6 - 1613.8 MHz	MOBILE-SATELLITE (Earth-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION 5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	MOBILE-SATELLITE (Earth-space) 5.351A 5.364 RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION 5.149 5.366 5.367 5.368 5.371 5.372
1613.8 - 1626.5 MHz	MOBILE-SATELLITE (Earth-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-Earth) 5.208B 5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372	MOBILE-SATELLITE (Earth-space) 5.351A 5.364 AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-Earth) 5.208B 5.365 5.366 5.367 5.368 5.371 5.372
1626.5 - 1660 MHz	MOBILE-SATELLITE (Earth-space) 5.351A 5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376	MOBILE-SATELLITE (Earth-space) 5.351A 5.353A 5.354 5.357A 5.374 5.375 5.376 5.351

1660 - 1660.5 MHz	MOBILE-SATELLITE (Earth-space) 5.351A RADIO ASTRONOMY 5.149 5.341 5.351 5.354 5.362A 5.376A	MOBILE-SATELLITE (Earth-space) 5.351A 5.354 5.376A RADIO ASTRONOMY 5.149 5.351
1660.5 - 1668.0MHz	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.379A
1668.0 – 1668.4 MHz	MOBILE-SATELLITE (Earth-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A	MOBILE-SATELLITE (Earth-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.379A
1668.4 - 1670 MHz	METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY 5.149 5.341 5.379D 5.379E	METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY 5.149 5.379E 5.379D
1670 - 1675 MHz	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (Earth-space) 5.351A 5.379B 5.341 5.379D 5.379E 5.380A	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (Earth-space) 5.351A 5.379B Fixed A01 5.379D 5.379E 5.380A
1675 - 1690 MHz	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except aeronautical mobile 5.341	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except aeronautical mobile
1690 - 1700 MHz	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) Fixed Mobile except aeronautical mobile 5.289 5.341 5.382	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) Fixed Mobile except aeronautical mobile 5.289
1700 - 1710 MHz	FIXED METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except aeronautical mobile 5.289 5.341	FIXED METEOROLOGICAL-SATELLITE (space-Earth) Mobile except aeronautical mobile A01 5.289
1710 - 1930 MHz	FIXED MOBILE 5.384A 5.388A 5.388B 5.149 5.341 5.385 5.386 5.387 5.388	MOBILE 5.384A 5.388 5.388A 5.149 5.385

1930 - 1970 MHz	FIXED MOBILE 5.388A 5.388B 5.388	MOBILE 5.388A 5.388
1970 - 1980 MHz	FIXED MOBILE 5.388A 5.388B 5.388	MOBILE 5.388A 5.388
1980 - 2010 MHz	FIXED MOBILE MOBILE-SATELLITE (Earth-space) 5.351A 5.388 5.389A 5.389B 5.389F	MOBILE-SATELLITE (Earth-space) 5.351A MOBILE 5.388 5.389A
2010 - 2025 MHz	FIXED MOBILE 5.388A 5.388B 5.388	MOBILE 5.388A 5.388
2025 - 2110 MHz	SPACE OPERATION (Earth-space) (space-Earth) EARTH EXPLORATION SATELLITE (Earth-space) (space-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-space) (space-space) 5.392	SPACE OPERATION (Earth-space) (space-Earth) FIXED MOBILE 5.391 EARTH EXPLORATION-SATELLITE (Earth-space) (space-space) SPACE RESEARCH (Earth-space) (space-space) 5.392
2110 - 2120 MHz	FIXED MOBILE 5.388A 5.388B SPACE RESEARCH (deep space) (Earth-space) 5.388	MOBILE 5.388A SPACE RESEARCH (deep space) (Earth-space) 5.388
2120 - 2160 MHz	FIXED MOBILE 5.388A 5.388B 5.388	MOBILE 5.388A 5.388
2160 - 2170 MHz	FIXED MOBILE 5.388A 5.388B 5.388	MOBILE 5.388A 5.388
2170 - 2200 MHz	FIXED MOBILE MOBILE-SATELLITE (space-Earth) 5.351A 5.388 5.389A 5.389F	MOBILE-SATELLITE (space-Earth) 5.351A MOBILE 5.388 5.389A
2200 - 2290 MHz	SPACE OPERATION (space-Earth) (space-space) EARTH EXPLORATION SATELLITE (space-Earth) (space-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-Earth) (space-space) 5.392	SPACE OPERATION (space-Earth) (space-space) FIXED MOBILE 5.391 EARTH EXPLORATION SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) 5.392

2290 - 2300 MHz	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-Earth)	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-Earth)
2300 - 2450 MHz	FIXED MOBILE 5.384A Amateur Radiolocation 5.150 5.282 5.395	FIXED MOBILE Amateur (2304 - 2310 MHz, 2320 - 2322 MHz und 2400 – 2450 MHz) Amateur-Satellite (2400 - 2450 MHz) 5.282 Radiolocation 5.150
2450 - 2483.5 MHz	FIXED MOBILE Radiolocation 5.150 5.397	FIXED MOBILE Radiolocation 5.150
2483.5 - 2500 MHz	FIXED MOBILE MOBILE-SATELLITE (space-Earth) 5.351A RADIODETERMINATION-SATELLITE (space-Earth) 5.398 Radiolocation 5.150 5.399 5.402 5.B118	FIXED MOBILE MOBILE-SATELLITE (space-Earth) 5.351A RADIODETERMINATION-SATELLITE (space-Earth) 5.398 5.150 5.402
2500 - 2520 MHz	FIXED 5.410 MOBILE except aeronautical mobile 5.384A 5.405 5.412	FIXED MOBILE except aeronautical mobile 5.384A
2520 - 2655 MHz	FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 5.339 5.405 5.412 5.418B 5.418C	FIXED MOBILE except aeronautical mobile 5.384A 5.339 5.418C 5.418B
2655 - 2670 MHz	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) 5.149 5.412	FIXED MOBILE except aeronautical mobile 5.384A Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) 5.149 5.208B
2670 - 2690 MHz	FIXED 5.410 MOBILE except aeronautical mobile 5.384A Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) 5.149 5.412	FIXED MOBILE except aeronautical mobile 5.384A Radio Astronomy 5.149

2690 - 2700 MHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.422	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
2700 - 2900 MHz	AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423 5.424	AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation Mobile except aeronautical mobile A02 5.423
2900 - 3100 MHz	RADIOLOCATION 5.424A RADIONAVIGATION 5.426 5.425 5.427	RADIOLOCATION 5.424A RADIONAVIGATION 5.426 5.425 5.427
3100 - 3300 MHz	RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149 5.428	RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149
3300 - 3400 MHz	RADIOLOCATION 5.149 5.429 5.430	RADIOLOCATION 5.149
3400 - 3600 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except aeronautical mobile 5.430A Radiolocation 5.431	FIXED FIXED-SATELLITE (space-Earth) MOBILE except aeronautical mobile 5.430A Radiolocation (3400 - 3410 MHz) A01 Amateur (3400 – 3410 MHz) A01 5.431
3600 - 4200 MHz	FIXED FIXED-SATELLITE (space-Earth) Mobile	FIXED FIXED-SATELLITE (space-Earth) MOBILE (3600 – 3800 MHz) A01
4200 - 4400 MHz	AERONAUTICAL MOBILE (R) 5.A117 AERONAUTICAL RADIONAVIGATION 5.438 5.439 5.440 5.B117	AERONAUTICAL MOBILE (R) 5.A117 AERONAUTICAL RADIONAVIGATION 5.438 5.440 5.B117
4400 - 4500 MHz	FIXED MOBILE	FIXED MOBILE
4500 - 4800 MHz	FIXED FIXED-SATELLITE (space-Earth) 5.441 MOBILE	FIXED FIXED-SATELLITE (space-Earth) 5.441 MOBILE Radiolocation A02
4800 - 4990 MHz	FIXED MOBILE 5.442 Radio Astronomy 5.149 5.339 5.443	FIXED MOBILE except aeronautical mobile 5.442 A01 Radio Astronomy Radiolocation A02 5.149 5.339
4990 - 5000 MHz	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space Research (passive) 5.149	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Radiolocation A02 5.149

5000 - 5010 MHz	AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-space)	AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-space) Radio Astronomy A01 Space research (passive) A01 Radiolocation A02
5010 - 5030 MHz	AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-Earth) (space-space) 5.328B 5.443B	AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE space-Earth) (space-space) 5.328B 5.443B Radio Astronomy A01 Space research (passive) A01 Radiolocation A02
5030 - 5091 MHz	AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION 5.444	AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION Radiolocation A02 5.444
5091 - 5150 MHz	FIXED-SATELLITE (Earth-space) 5.444A AERONAUTICAL MOBILE (R) 5.444B AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION 5.444	FIXED-SATELLITE (Earth-space) 5.444A AERONAUTICAL MOBILE (R) 5.444B AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION Radiolocation A02 5.444
5150 - 5250 MHz	AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B 5.446 5.446C 5.447 5.447B 5.447C	FIXED-SATELLITE (Earth-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B Radiolocation A02 5.446 5.446C 5.447B 5.447C
5250 - 5255 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F 5.447E 5.448 5.448A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F 5.448A
5255 - 5350 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F 5.447E 5.448 5.448A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F 5.448A

5350 - 5460 MHz	EARTH EXPLORATION-SATELLITE (active) 5.448B SPACE RESEARCH (active) 5.448C AERONAUTICAL RADIONAVIGATION 5.449 RADIOLOCATION 5.448D	EARTH EXPLORATION-SATELLITE (active) 5.448B SPACE RESEARCH (active) 5.448C AERONAUTICAL RADIONAVIGATION 5.449 RADIOLOCATION 5.448D
5460 - 5470 MHz	RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B	RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B
5470 - 5570 MHz	MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B 5.448B 5.450 5.451	AERONAUTICAL RADIONAVIGATION 5.450 MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B 5.448B
5570 - 5650 MHz	MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B 5.450 5.451 5.452	AERONAUTICAL RADIONAVIGATION 5.450 MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B 5.452
5650 - 5725 MHz	RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space Research (deep space) 5.282 5.451 5.453 5.454 5.455	RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Amateur-Satellite (Earth-space) (5650 - 5670 MHz) 5.282 5.455
5725 - 5830 MHz	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur 5.150 5.451 5.453 5.455	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Mobile A01 5.150 5.455
5830 - 5850 MHz	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Amateur-Satellite (space-Earth) 5.150 5.451 5.453 5.455	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Amateur-Satellite (space-Earth) Mobile A01 5.150 5.455
5850 - 5925 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE 5.150	FIXED FIXED-SATELLITE (Earth-space) MOBILE Radiolocation A02 5.150

5925 - 6700 MHz	FIXED FIXED-SATELLITE (Earth-space) 5.457A 5.457B MOBILE 5.149 5.440 5.458	FIXED FIXED-SATELLITE (Earth-space) Earth exploration-satellite (passive) (6425 – 6700 MHz) A01 Radiolocation A02 5.149 5.440 5.458
6700 - 7075 MHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.441 MOBILE 5.458 5.458A 5.458B	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.441 Earth exploration-satellite (passive) A01 Radiolocation A02 5.458 5.458A 5.458B
7075 - 7145 MHz	FIXED MOBILE 5.458 5.459	FIXED Earth exploration-satellite (passive) A01 Radiolocation A02 5.458
7145 - 7190 MHz	FIXED MOBILE SPACE RESEARCH (deep space) (Earth-space) 5.460 5.458 5.459	FIXED SPACE RESEARCH (deep space) (Earth-space) 5.460 Earth exploration-satellite (passive) A01 Space operation (Earth-space) A01 Radiolocation A02 5.458
7190 - 7235 MHz	EARTH EXPLORATION- SATELLITE (Earth-to-space) 5.A111 FIXED MOBILE SPACE RESEARCH (Earth-to-space) 5.460 5.458 5.459	EARTH EXPLORATION- SATELLITE (Earth-to-space) 5.A111 FIXED SPACE RESEARCH (Earth-to-space) 5.460 Earth exploration-satellite (passive) A01 Space operation (Earth-to-space) A01 Radiolocation A02 5.458
7235 - 7250 MHz	EARTH EXPLORATION- SATELLITE (Earth-to-space) 5.A111 FIXED MOBILE 5.458	EARTH EXPLORATION- SATELLITE (Earth-to-space) 5.A111 FIXED Earth exploration-satellite (passive) A01 Space operation (Earth-to-space) A01 Radiolocation A02 5.458
7250 – 7300 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE 5.461	FIXED FIXED-SATELLITE (space-Earth) Radiolocation A02 5.461
7300 - 7375 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except aeronautical mobile 5.461	FIXED FIXED-SATELLITE (space-Earth) Radiolocation A02 5.461

7375 - 7450 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except aeronautical mobile MARITIME MOBILE- SATELLITE (space-to-Earth) 5.A192 5.B192	FIXED FIXED-SATELLITE (space-Earth) MARITIME MOBILE- SATELLITE (space-to-Earth) 5.A192 5.B192 Radiolocation A02
7450 - 7550 MHz	FIXED FIXED-SATELLITE (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except aeronautical mobile MARITIME MOBILE- SATELLITE (space-to-Earth) 5.A192 5.B192	FIXED FIXED-SATELLITE (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) 5.461A MARITIME MOBILE- SATELLITE (space-to-Earth) 5.A192 5.B192 Radiolocation A02
7550 - 7750 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except aeronautical mobile MARITIME MOBILE- SATELLITE (space-to-Earth) 5.A192 5.B192	FIXED FIXED-SATELLITE (space-Earth) MARITIME MOBILE- SATELLITE (space-to-Earth) 5.A192 5.B192 Radiolocation A02
7750 - 7900 MHz	FIXED METEOROLOGICAL-SATELLITE (space-Earth) 5.461B MOBILE except aeronautical mobile	FIXED METEOROLOGICAL-SATELLITE (space-Earth) 5.461B MOBILE except aeronautical mobile Radiolocation A02
7900 - 8025 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE 5.461	FIXED FIXED-SATELLITE (Earth-space) MOBILE Radiolocation A02 5.461
8025 - 8175 MHz	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE 5.463 5.462A	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE 5.463 Radiolocation A02 5.462A
8175 - 8215 MHz	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) (Earth-space) MOBILE 5.463 5.462A	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) MOBILE 5.463 Radiolocation A02 5.462A
8215 - 8400 MHz	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE 5.463 5.462A	FIXED FIXED-SATELLITE (Earth-space) Radiolocation A02 5.462A 5.463
8400 - 8500 MHz	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-Earth) 5.465 5.466	FIXED SPACE RESEARCH (space-Earth) 5.465 Radiolocation A01
8500 - 8550 MHz	RADIOLOCATION 5.468 5.469	RADIOLOCATION 5.469

8550 - 8650 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.468 5.469 5.469A	EARTH EXPLORATION-SATELLITE (active) 5.469A RADIOLOCATION SPACE RESEARCH (active) 5.469A 5.469
8650 - 8750 MHz	RADIOLOCATION 5.468 5.469	RADIOLOCATION 5.469
8750 - 8850 MHz	RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470 5.471	RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470 Space research A01
8850 - 9000 MHz	RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473	RADIOLOCATION RADIONAVIGATION 5.473 Space research A01
9000 - 9200 MHz	AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION 5.471 5.473A	AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION Space research A01 5.473A
9200 - 9300 MHz	EARTH EXPLORATION-SATELLITE (active) 5.A112 5.C112 5.D112 RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473 5.474 5.B112	EARTH EXPLORATION-SATELLITE (active) 5.A112 5.C112 5.D112 RADIOLOCATION RADIONAVIGATION 5.473 Space research A01 5.474 5.B112
9300 - 9500 MHz	RADIONAVIGATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.427 5.474 5.475 5.475A 5.475B 5.476A	RADIONAVIGATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.427 5.474 5.475 5.475A 5.475B 5.476A
9500 - 9800 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION SPACE RESEARCH (active) 5.476A	EARTH EXPLORATION-SATELLITE (active) 5.476A RADIOLOCATION SPACE RESEARCH (active) 5.476A
9800 - 9900 MHz	RADIOLOCATION Earth exploration-satellite (active) Space research (active) Fixed 5.477 5.478 5.478A 5.478B	RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.478A 5.478B
9900 - 10000 MHz	EARTH EXPLORATION-SATELLITE (active) 5.A112 5.C112 5.D112 RADIOLOCATION Fixed 5.477 5.478 5.479 5.B112	EARTH EXPLORATION-SATELLITE (active) 5.A112 5.C112 5.D112 RADIOLOCATION Fixed 5.479 5.B112

10 - 10.40 GHz	EARTH EXPLORATION-SATELLITE (active) 5.A112 5.C112 5.D112 FIXED MOBILE RADIOLOCATION Amateur 5.479 5.B112	EARTH EXPLORATION-SATELLITE (active) 5.A112 5.C112 5.D112 FIXED MOBILE RADIOLOCATION Amateur 5.479 5.B112
10.40 - 10.45 GHz	FIXED MOBILE RADIOLOCATION	FIXED MOBILE RADIOLOCATION
10.45 - 10.5 GHz	RADIOLOCATION Amateur Amateur-Satellite 5.481	RADIOLOCATION Amateur Amateur-Satellite 5.481
10.5 - 10.55 GHz	FIXED MOBILE Radiolocation	FIXED MOBILE Radiolocation
10.55 - 10.6 GHz	FIXED MOBILE except aeronautical mobile Radiolocation	FIXED MOBILE except aeronautical mobile Radiolocation
10.6 - 10.68 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.149 5.482 5.482A	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation (10.6 - 10.65 GHz) A01 5.149 5.482 5.482A
10.68 - 10.7 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.483	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
10.7 - 10.95 GHz	FIXED FIXED-SATELLITE (Earth-space) (space- Earth) 5.441 5.484 MOBILE except aeronautical mobile	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.441 5.484 Mobile-Satellite (space-Earth) A01
10.95 - 11.2 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.484A 5.A15 5.484 MOBILE except aeronautical mobile	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.484A 5.A15 5.484 Mobile-Satellite (space-Earth) A01
11.2 - 11.45 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.441 5.484 MOBILE except aeronautical mobile	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.441 5.484 Mobile-Satellite (space-Earth) A01
11.45 - 11.7 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.484A 5.A15 5.484 MOBILE except aeronautical mobile	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) 5.484A 5.A15 5.484 Mobile-Satellite (space-Earth) A01
11.7 - 12.5 GHz	FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492 5.487 5.487A	BROADCASTING-SATELLITE 5.492 5.487 5.487A

12.5 - 12.75 GHz	FIXED-SATELLITE (space-Earth) (Earth-space) 5.484A 5.A15 5.494 5.495 5.496	FIXED-SATELLITE (space-Earth) (Earth-space) 5.484A 5.A15 FIXED 5.496 5.495
12.75 - 13.25 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.441 MOBILE Space Research (deep space) (space-Earth)	FIXED FIXED-SATELLITE (Earth-space) 5.441
13.25 - 13.4 GHz	EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A 5.499	EARTH EXPLORATION-SATELLITE (active) 5.498A AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A
13.4 - 13.65 GHz	EARTH EXPLORATION-SATELLITE (active) FIXED-SATELLITE (space-to-Earth) 5.A161 5.X161 RADIOLOCATION SPACE RESEARCH 5.B161 5.B161A Standard Frequency and Time Signal-Satellite (Earth-space) 5.499 5.500 5.501 5.501B 5.C161	EARTH EXPLORATION -SATELLITE (active) 5.501B FIXED-SATELLITE (space-to-Earth) 5.A161 5.X161 RADIOLOCATION SPACE RESEARCH 5.B161 5.B161A 5.501 5.C161
13.65 - 13.75 GHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard Frequency and Time Signal-Satellite (Earth-space) 5.499 5.500 5.501 5.501B	EARTH EXPLORATION-SATELLITE (active) 5.501B RADIOLOCATION SPACE RESEARCH 5.501A 5.501B 5.501
13.75 - 14 GHz	FIXED-SATELLITE (Earth-space) 5.484A RADIOLOCATION Earth exploration-satellite Standard frequency and time signal-satellite (Earth-space) Space Research 5.499 5.500 5.501 5.502 5.503	FIXED-SATELLITE (Earth-space) 5.484A 5.502 RADIOLOCATION Space research 5.501 5.503
14 - 14.25 GHz	FIXED-SATELLITE (Earth-space) 5.457A 5.457B 5.484A 5.506 5.506B 5.A15 RADIONAVIGATION 5.504 Mobile-satellite (Earth-space) 5.504B 5.504C 5.506A Space Research 5.504A 5.505	FIXED-SATELLITE (Earth-space) 5.484A 5.506 5.A15 Mobile-satellite (Earth-space) 5.504B 506A Space Research 5.504 5504A

14.25 - 14.3 GHz	FIXED-SATELLITE (Earth-space) 5.457A 5.457B 5.484A 5.506 5.506B 5.A15 RADIONAVIGATION 5.504 Mobile-satellite (Earth-space) 5.504B 5.506A 5.508A Space Research 5.504A 5.505 5.508	FIXED-SATELLITE (Earth-space) 5.484A 5.506 5.A15 Mobile-satellite (Earth-space) 5.504B 5.506A Space Research 5.504 5.504A 5.508
14.3 - 14.4 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.457A 5.457B 5.484A 5.506 5.506B 5.A15 MOBILE except aeronautical mobile Mobile-satellite (Earth-space) 5.504B 5.506A 5.509A Radionavigation-satellite 5.504A	FIXED-SATELLITE (Earth-space) 5.484A 5.506 5.A15 Mobile-satellite (Earth-space) 5.504B 5.506A 5.504A
14.4 - 14.47 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.457A 5.457B 5.484A 5.506 5.506B 5.A15 MOBILE except aeronautical mobile Mobile-satellite (Earth-space) 5.506A 5.509A Space Research (space-Earth) 5.504A	FIXED-SATELLITE (Earth-space) 5.484A 5.506 5.A15 Mobile-satellite (Earth-space) 5.504B 5.506A 5.504A
14.47 - 14.5 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-space) 5.504B 5.506A 5.509A Radio Astronomy 5.149 5.504A	FIXED-SATELLITE (Earth-space) 5.484A 5.506 Mobile-satellite (Earth-space) 5.504B 5.506A Radio Astronomy 5.149 5.504A
14.5 - 14.75 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.510, 5A16 5.B16 5.D16 5.E16 5.F16 MOBILE Space Research 5.C16	FIXED MOBILE Radio Astronomy A01
14.75 - 14.8 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.510 MOBILE Space Research	FIXED MOBILE Radio Astronomy A01
14.8 - 15.35 GHz	FIXED MOBILE Space Research 5.339	FIXED MOBILE Radio Astronomy A01 5.339
15.35 - 15.4 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.511	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
15.4 - 15.43 GHz	RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION	RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION

15.43 - 15.63 GHz	FIXED-SATELLITE (Earth-space) 5.511A RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511C	FIXED-SATELLITE (Earth-space) 5.511A RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511C
15.63 - 15.7 GHz	RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION	RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION
15.7 - 16.6 GHz	RADIOLOCATION 5.512 5.513	RADIOLOCATION FIXED 5.512 MOBILE 5.512
16.6 - 17.1 GHz	RADIOLOCATION Space Research (deep space) (Earth-space) 5.512 5.513	RADIOLOCATION FIXED 5.512 MOBILE 5.512 Space Research (deep space) (Earth-space)
17.1 - 17.2 GHz	RADIOLOCATION 5.512 5.513	RADIOLOCATION FIXED 5.512 MOBILE 5.512
17.2 - 17.3 GHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.512 5.513 5.513A	EARTH EXPLORATION-SATELLITE (active) 5.513A RADIOLOCATION FIXED 5.512 MOBILE 5.512 SPACE RESEARCH (active) 5.513A
17.3 - 17.7 GHz	FIXED-SATELLITE (Earth-space) (space-Earth) 5.516A 5.516B Radiolocation 5.514	FIXED-SATELLITE (Earth-space) 5.516 (space-Earth) 5.516A 5.516B Radiolocation 5.514
17.7 - 18.1 GHz	FIXED FIXED-SATELLITE (space-Earth) 5.484A (Earth-space) 5.516 MOBILE	FIXED FIXED-SATELLITE (space-Earth) 5.484A (Earth-space) 5.516
18.1 - 18.4 GHz	FIXED FIXED-SATELLITE (space-Earth) 5.484A 5.516B (Earth-space) 5.520 MOBILE 5.519 5.521	FIXED FIXED-SATELLITE (space-Earth) 5.484A METEOROLOGICAL-SATELLITE (space-Earth) A01 5.519 5.520 5.521
18.4 - 18.6 GHz	FIXED FIXED-SATELLITE (space-Earth) 5.484A 5.516B MOBILE	FIXED FIXED-SATELLITE (space-Earth) 5.484A
18.6 - 18.8 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-Earth) 5.522B MOBILE except aeronautical mobile Space research (passive) 5.522A 5.522C	EARTH EXPLORATION-SATELLITE (passive) FIXED 5.522A FIXED-SATELLITE (space-Earth) 5.522A 5.522B

18.8 - 19.3 GHz	FIXED FIXED-SATELLITE (space-Earth) 5.516B 5.523A MOBILE	FIXED FIXED-SATELLITE (space-Earth) 5.523A
19.3 - 19.7 GHz	FIXED FIXED-SATELLITE (space-Earth) (Earth-space) 5.523B 5.523C 5.523D 5.523E MOBILE	FIXED FIXED-SATELLITE (space-Earth) 5.523B 5.523C 5.523D 5.523E
19.7 - 20.1 GHz	FIXED-SATELLITE (space-Earth) 5.484A 5.516B 5.5X 5.A15 Mobile-satellite (space-Earth) 5.524	FIXED-SATELLITE (space-Earth) 5.484A 5.516B 5.5X 5.A15 Mobile-satellite (space-Earth)
20.1 - 20.2 GHz	FIXED-SATELLITE (space-Earth) 5.484A 5.516B 5.5X 5.A15 MOBILE-SATELLITE (space-Earth) 5.524 5.525 5.526 5.527 5.528	FIXED-SATELLITE (space-Earth) 5.484A 5.516B 5.5X 5.A15 MOBILE-SATELLITE (space-Earth) 5.525 5.526 5.527 5.528
20.2 - 21.2 GHz	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) Standard Frequency and Time Signal (space-Earth) 5.524	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth)
21.2 - 21.4 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)
21.4 - 22 GHz	FIXED MOBILE BROADCASTING-SATELLITE 5.208B 5.530A 5.530B 5.530D	FIXED MOBILE BROADCASTING-SATELLITE 5.208B Radiolocation (21,625 – 22 GHz) A02 5.530A 5.530B 5.530D
22 - 22.21 GHz	FIXED MOBILE except aeronautical mobile 5.149	FIXED RADIO ASTRONOMY A01 SPACE RESEARCH (passive) A01 Radiolocation A02 5.149
22.21 - 22.5 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532	FIXED RADIO ASTRONOMY SPACE RESEARCH (passive) Earth exploration-satellite (passive) A01 Radiolocation A02 5.149 5.532
22.5 - 22.55 GHz	FIXED MOBILE	FIXED Radiolocation A02
22.55 - 23.15 GHz	FIXED INTER-SATELLITE 5.338A MOBILE SPACE RESEARCH (Earth-space) 5.532A 5.149	FIXED INTER-SATELLITE 5.338A MOBILE SPACE RESEARCH (Earth-space) 5.532A Radiolocation A02 5.149

23.15 – 23.55 GHz	FIXED INTER-SATELLITE 5.338A MOBILE	FIXED INTER-SATELLITE 5.338A MOBILE Radiolocation A02
23.55 - 23.6 GHz	FIXED MOBILE	FIXED Radiolocation A02
23.6 - 24 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation A02 5.340
24 - 24.05 GHz	AMATEUR AMATEUR-SATELLITE 5.150	AMATEUR AMATEUR-SATELLITE Mobile A02 Radiolocation A02 5.150
24.05 - 24.25 GHz	RADIOLOCATION Amateur Earth Exploration-Satellite (active) 5.150	RADIOLOCATION Amateur Earth exploration-satellite (active) Fixed A01 Mobile A01 5.150
24.25 - 24.45 GHz	FIXED	FIXED MOBILE A01 Radiolocation A02
24.45 - 24.65 GHz	FIXED INTER-SATELLITE	FIXED MOBILE (24.45 - 24.5 GHz) A01 INTER-SATELLITE Radiolocation A02
24.65 - 24.75 GHz	FIXED FIXED-SATELLITE 5.532B INTER-SATELLITE	FIXED FIXED-SATELLITE 5.532B Radiolocation A02
24.75 - 25.25 GHz	FIXED FIXED-SATELLITE 5.532B	FIXED FIXED-SATELLITE 5.532B Radiolocation A02
25.25 - 25.5 GHz	FIXED INTER-SATELLITE 5.536 MOBILE Standard Frequency and Time Signal-Satellite (Earth-space)	FIXED INTER-SATELLITE 5.536 Radiolocation A02
25.5 - 27 GHz	EARTH EXPLORATION-SATELLITE (space-Earth) 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (space-Earth) Standard Frequency and Time Signal-Satellite (Earth-space) 5.536A	FIXED INTER-SATELLITE 5.536 MOBILE (26.5 - 27 GHz) SPACE RESEARCH (space-Earth) Earth exploration-satellite (space-Earth) 5.536B A01 Radiolocation (25.5 – 26.65 GHz) A02 5.536A
27 - 27.5 GHz	FIXED INTER-SATELLITE 5.536 MOBILE	FIXED INTER-SATELLITE 5.536 MOBILE Earth exploration-satellite (space-Earth) A01

27.5 - 28.5 GHz	FIXED 5.537A FIXED-SATELLITE (Earth-space) 5.484A 5.516B 5.539 MOBILE 5.538 5.540	FIXED FIXED-SATELLITE (Earth-space) 5.484A 5.516B 5.539 5.538 5.540
28.5 - 29.1 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.484A 5.516B 5.523A 5.539 MOBILE Earth Exploration-Satellite (Earth-space) 5.541 5.540	FIXED FIXED-SATELLITE (Earth-space) 5.484A 5.516B 5.523A 5.539 Earth Exploration-Satellite (Earth-space) 5.541 5.540
29.1 - 29.5 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.516B 5.523C 5.523E 5.535A 5.539 5.541A MOBILE Earth Exploration-Satellite (Earth-space) 5.541 5.540	FIXED FIXED-SATELLITE (Earth-space) 5.516B 5.523C 5.523E 5.535A 5.539 5.541A Earth Exploration-Satellite (Earth-space) 5.541 5.540
29.5 - 29.9 GHz	FIXED-SATELLITE (Earth-space) 5.484A 5.516B 5.539 5.5X 5.A15 Earth Exploration-Satellite (Earth-space) 5.541 Mobile-Satellite (Earth-space) 5.540 5.542	FIXED-SATELLITE (Earth-space) 5.484A 5.516B 5.539 5.5X 5.A15 Earth Exploration-Satellite (Earth-space) 5.541 Mobile-Satellite (Earth-space) 5.540
29.9 - 30 GHz	FIXED-SATELLITE (Earth-space) 5.484A 5.516B 5.539 5.5X 5.A15 MOBILE-SATELLITE (Earth-space) Earth Exploration-Satellite (Earth-space) 5.541 5.543 5.525 5.526 5.527 5.538 5.540 5.542	FIXED-SATELLITE (Earth-space) 5.484A 5.516B 5.539 5.5X 5.A15 MOBILE-SATELLITE (Earth-space) Earth Exploration-Satellite (Earth-space) 5.541 5.543 5.525 5.526 5.527 5.538 5.540
30 - 31 GHz	FIXED-SATELLITE (Earth-space) 5.338A MOBILE-SATELLITE (Earth-space) Standard Frequency and Time Signal-Satellite (space-Earth) 5.542	FIXED-SATELLITE (Earth-space) 5.338A MOBILE-SATELLITE (Earth-space)
31 - 31.3 GHz	FIXED 5.338A 5.543A MOBILE Standard Frequency and Time Signal-Satellite (space-Earth) Space Research 5.544 5.545 5.149	FIXED 5.338A MOBILE 5.149 5.544
31.3 - 31.5 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340

31.5 - 31.8 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.546	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.546
31.8 - 32 GHz	FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-Earth) 5.547 5.547B 5.548	FIXED 5.547 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-Earth) 5.548
32 - 32.3 GHz	FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-Earth) 5.547 5.547C 5.548	FIXED 5.547 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-Earth) 5.548
32.3 - 33 GHz	FIXED 5.547A INTER-SATELLITE RADIONAVIGATION 5.547 5.547D 5.548	FIXED 5.547 5.547A INTER-SATELLITE RADIONAVIGATION 5.548
33 - 33.4 GHz	FIXED 5.547A RADIONAVIGATION 5.547 5.547E	FIXED 5.547 5.547A INTER-SATELLITE A01 RADIONAVIGATION
33.4 - 34.2 GHz	RADIOLOCATION 5.549	RADIOLOCATION
34.2 - 34.7 GHz	RADIOLOCATION SPACE RESEARCH (deep space) (Earth-space) 5.549	RADIOLOCATION SPACE RESEARCH (deep space) (Earth-space)
34.7 - 35.2 GHz	RADIOLOCATION Space Research 5.550 5.549	RADIOLOCATION Space Research
35.2 - 35.5 GHz	METEOROLOGICAL AIDS RADIOLOCATION 5.549	METEOROLOGICAL AIDS RADIOLOCATION
35.5 - 36 GHz	METEOROLOGICAL AIDS EARTH-EXPLORATION- SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549 5.549A	METEOROLOGICAL AIDS EARTH-EXPLORATION- SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549A
36 - 37 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149 5.550A	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio astronomy A01 5.149 5.550A

37 - 37.5 GHz	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-Earth) 5.547	FIXED SPACE RESEARCH (space-Earth) 5.547
37.5 - 38 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except aeronautical mobile SPACE RESEARCH (space-Earth) Earth Exploration-Satellite (space-Earth) 5.547	FIXED FIXED-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Earth Exploration-Satellite (space-Earth) 5.547
38 - 39.5 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE Earth Exploration-Satellite (space-Earth) 5.547	FIXED FIXED-SATELLITE (space-Earth) Earth Exploration-Satellite (space-Earth) 5.547
39.5 - 40 GHz	FIXED FIXED-SATELLITE (space-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-Earth) Earth Exploration-Satellite (space-Earth) 5.547	FIXED FIXED-SATELLITE (space-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-Earth) Earth Exploration-Satellite (space-Earth) 5.547
40 - 40.5 GHz	EARTH EXPLORATION-SATELLITE (Earth-space) FIXED FIXED-SATELLITE (space-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-Earth) SPACE RESEARCH (Earth-space) Earth Exploration-Satellite (space-Earth)	FIXED FIXED-SATELLITE (space-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-Earth) SPACE RESEARCH (Earth-space) Earth Exploration-Satellite (space-Earth)
40.5 - 41 GHz	FIXED FIXED-SATELLITE (space-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile 5.547	FIXED BROADCASTING BROADCASTING-SATELLITE 5.547
41 - 42.5 GHz	FIXED FIXED-SATELLITE (space-Earth) 5.516B BROADCASTING BROADCASTING-SATELLITE Mobile 5.547 5.551F 5.551H 5.551I	FIXED BROADCASTING BROADCASTING-SATELLITE 5.547 5.551H 5.551I
42.5 - 43.5 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.547	FIXED FIXED-SATELLITE (Earth-space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.547

43.5 – 47 GHz	MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE Fixed-satellite (43,5 – 45,5 GHz) A01 5.554
47 – 47.2 GHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE
47.2 - 47.5 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.552 MOBILE 5.552A	FIXED FIXED-SATELLITE (Earth-space) 5.552 MOBILE 5.552A
47.5 - 47.9 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.552 (space-Earth) 5.516B 5.554A MOBILE	FIXED FIXED-SATELLITE (Earth-space) 5.552 (space-Earth) 5.516B 5.554A MOBILE
47.9 – 48.2 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.552 MOBILE 5.552A	FIXED FIXED-SATELLITE (Earth-space) 5.552 MOBILE 5.552A
48.2 – 48.54 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.552 (space-Earth) 5.516B 5.554A 5.555B MOBILE	FIXED FIXED-SATELLITE (Earth-space) 5.552 (space-Earth) 5.516B 5.554A 5.555B MOBILE
48.54 – 49.44 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.552 MOBILE 5.149 5.340 5.555	FIXED FIXED-SATELLITE (Earth-space) 5.552 MOBILE RADIO ASTRONOMY A01 5.149 5.340 5.555
49.44 - 50.2 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.338A 5.552 (space-Earth) 5.516B 5.554A .555B MOBILE	FIXED FIXED-SATELLITE (Earth-space) 5.338A 5.552 (space-Earth) 5.516B 5.554A 5.555B MOBILE
50.2 - 50.4 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340
50.4 - 51.4 GHz	FIXED FIXED-SATELLITE (Earth-space) 5.338A MOBILE Mobile-Satellite (Earth-space)	FIXED FIXED-SATELLITE (Earth-space) 5.338A Mobile-Satellite (Earth-space)
51.4 - 52.6 GHz	FIXED 5.338A MOBILE 5.547 5.556	FIXED 5.338A MOBILE RADIO ASTRONOMY A01 5.547 5.556

52.6 - 54.25 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340 5.556	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340 5.556
54.25 - 55.78 GHz	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive) 5.556B	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)
55.78 - 56.9 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547 5.557	EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A SPACE RESEARCH (passive) 5.547
56.9 - 57 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACE RESEARCH (passive) 5.547 5.557	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE 5.558 SPACE RESEARCH (passive) 5.547 5.558A
57 - 58.2 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547 5.557	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) Radiolocation A02 5.547
58.2 - 59 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.547 5.556	EARTH EXPLORATION-SATELLITE (passive) FIXED RADIO ASTRONOMY A01 MOBILE SPACE RESEARCH (passive) Radiolocation A02 5.547 5.556
59 - 59.3 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)

59.3 - 64 GHz	FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559 5.138	FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559 5.138
64 - 65 GHz	FIXED INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556	FIXED INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556
65 - 66 GHz	EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH 5.547	EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE SPACE RESEARCH 5.547
66 - 71 GHz	INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554
71 - 74 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth)	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth)
74 - 76 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space Research (space-Earth) 5.561	FIXED FIXED-SATELLITE (space-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space Research (space-Earth) Radiolocation A02 5.561
76 - 77.5 GHz	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite Space Research (space-Earth) 5.149	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite Space Research (space-Earth) 5.149
77.5 - 78 GHz	AMATEUR AMATEUR-SATELLITE RADIOLOCATION 5.A118 Radio astronomy Space Research (space-Earth) 5.149	AMATEUR AMATEUR-SATELLITE RADIOLOCATION 5.A118 Space Research (space-Earth) Radiolocation A02 5.149
78 - 79 GHz	RADIOLOCATION Amateur Amateur-satellite Radio astronomy Space Research (space-Earth) 5.149 5.560	RADIOLOCATION Amateur Amateur-satellite Radio astronomy Space Research (space-Earth) 5.149 5.560

79 - 81 GHz	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space Research (space-Earth) 5.149	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149
81 - 84 GHz	FIXED 5.338A FIXED-SATELLITE (Earth-space) MOBILE MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY Space Research (space-Earth) 5.149 5.561A	FIXED 5.338A FIXED-SATELLITE (Earth-space) MOBILE MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY Space Research (space-Earth) Amateur 5.561A Amateur-satellite 5.561A Radiolocation A02 5.149
84 - 86 GHz	FIXED 5.338A FIXED-SATELLITE (Earth-space) MOBILE RADIO ASTRONOMY 5.149	FIXED 5.338A FIXED-SATELLITE (Earth-space) MOBILE RADIO ASTRONOMY Radiolocation A02 5.149
86 - 92 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
92 - 94 GHz	FIXED 5.338A MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	FIXED 5.338A MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149
94 - 94.1 GHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Radio astronomy 5.562 5.562A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Radio astronomy 5.562 5.562A
94.1 - 95 GHz	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149
95 - 100 GHz	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554

100 - 102 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
102 - 105 GHz	FIXED MOBILE RADIO ASTRONOMY 5.149 5.341	FIXED MOBILE RADIO ASTRONOMY 5.149
105 - 109.5GHz	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149
109.5 - 111.8GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
111.8 - 114.25 GHz	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149
114.25 - 116 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
116 - 119.98 GHz	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.341	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C
119.98 - 122.25 GHz	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.138 5.341	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) Mobile (122,0 – 122,25 GHz) A02 5.138
122.25 - 123 GHz	FIXED INTER-SATELLITE MOBILE 5.558 Amateur 5.138	FIXED INTER-SATELLITE MOBILE 5.558 Amateur Amateur-satellite A01 5.138

123 - 130 GHz	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio Astronomy 5.149 5.554	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio Astronomy 5.149 5.554
130 - 134 GHz	EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY 5.149 5.562A	EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY 5.149 5.562A
134 - 136 GHz	AMATEUR AMATEUR-SATELLITE Radio Astronomy	AMATEUR AMATEUR-SATELLITE Radio Astronomy
136 - 141 GHz	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite 5.149	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite 5.149
141 - 148.5 GHz	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149
148.5 - 151.5 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
151.5 - 155.5 GHz	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149
155.5 - 158.5 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.562F 5.562G	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.562F 5.562G
158.5 - 164 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth)	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth)

164 - 167 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
167 - 174.5 GHz	FIXED FIXED-SATELLITE (space-Earth) INTER-SATELLITE MOBILE 5.558 5.149	FIXED FIXED-SATELLITE (space-Earth) INTER-SATELLITE MOBILE 5.558 5.149
174.5 - 174.8 GHz	FIXED INTER-SATELLITE MOBILE 5.558	FIXED INTER-SATELLITE MOBILE 5.558
174.8 - 182 GHz	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)
182 - 185 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
185 - 190 GHz	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)
190 - 191.8 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340
191.8 - 200 GHz	FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.341 5.554	FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554
200 - 202 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341 5.563A	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A
202 - 209 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341 5.563A	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A

209 - 217 GHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE RADIO ASTRONOMY 5.149 5.341	FIXED FIXED-SATELLITE (Earth-space) MOBILE RADIO ASTRONOMY 5.149
217 - 226 GHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	FIXED FIXED-SATELLITE (Earth-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149
226 - 231.5 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340
231.5 - 232 GHz	FIXED MOBILE Radiolocation	FIXED MOBILE Radiolocation
232 - 235 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE Radiolocation	FIXED FIXED-SATELLITE (space-Earth) MOBILE Radiolocation
235 - 238 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-Earth) SPACE RESEARCH (passive) 5.563A 5.563B	EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-Earth) SPACE RESEARCH (passive) 5.563A 5.563B
238 - 240 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE	FIXED FIXED-SATELLITE (space-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE
240 - 241 GHz	FIXED MOBILE RADIOLOCATION	FIXED MOBILE RADIOLOCATION
241 - 248 GHz	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite 5.138 5.149	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-Satellite Mobile (244 – 246 GHz) A02 5.138 5.149
248 - 250 GHz	AMATEUR AMATEUR-SATELLITE Radio Astronomy 5.149	AMATEUR AMATEUR-SATELLITE Radio Astronomy 5.149
250 - 252 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A

252 - 265 GHz	FIXED MOBILE MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554	FIXED MOBILE MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554
265 - 275 GHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE RADIO ASTRONOMY 5.149 5.563A	FIXED FIXED-SATELLITE (Earth-space) MOBILE RADIO ASTRONOMY 5.149 5.563A
275 - 3 000 GHz	(Not allocated) 5.565	(Not allocated) 5.565