



# CITRA

الهيئة العامة للاتصالات وتقنية المعلومات  
COMMUNICATION & INFORMATION TECHNOLOGY REGULATORY AUTHORITY

## المخطط الوطني لتوزيع الترددات

2020

### Land Mobile Duplex (VHF)

138.000-139.000 MHz paired with 142.100-143.100 MHz,

139.000-139.475 MHz paired with 143.100-143.575 MHz,

148.000-149.900 MHz paired with 153.000-154.900 MHz,

150.050-151.000 MHz paired with 155.050-156.000 MHz,

164.500-166.500 MHz paired with 169.500-171.500 MHz,

### Land Mobile Duplex (UHF)

335.400-338.400 MHz paired with 340.900-343.900 MHz,

351.400-355.400 MHz paired with 357.400-361.400 MHz,

367.900-371.000 MHz paired with 371.900-375.000 MHz

450.000-455.000 MHz paired with 460.000-465.000 MHz,

455.000-460.000 MHz paired with 465.000-470.000 MHz

### Land Mobile Simplex (VHF)

139.475-140.750 MHz, 140.750-142.100 MHz,

143.575-144 MHz, 146-148.000 MHz,

151-153 MHz, 154.900-155.050 MHz,

162.025-164.500 MHz, 166.500-169.500 MHz,

171.500-173.800 MHz, 230-235 MHz,

235-300 MHz

### Land Mobile Simplex (UHF)

300-322MHz, 322-328.600 MHz,

338.400-340.900 MHz, 343.900-351.400 MHz,

355.400-357.400 MHz, 361.400-367.900 MHz,

371-371.900 MHz, 375-383 MHz,

387-389 MHz, 393-399.900 MHz,

400.050-400.150 MHz, 400.150-401.000 MHz,

423-430 MHz, 440-450 MHz

## Fixed

2200-2290 MHz	ITU-R F.1098
2400 - 2483.5 MHz*	
3400 - 3500 MHz	ITU-R F.1488
4400 - 5000 MHz	ITU-R F.1099
5650 - 5725 MHz*	
5725 - 5925 MHz*	
5.925 - 6.425 GHz	ITU-R F.383
6.425 - 7.11 GHz	ITU-R F.384
7.11 - 7.725 GHz	ITU-R F.385
7.725 - 8.725 GHz	ITU-R F.386
10.7 - 11.7 GHz	ITU-R F.387
12.75 - 13.25 GHz	ITU-R F.497
14.4 - 15.35 GHz	ITU-R F.636
17.7 - 19.7 GHz	ITU-R F.595
21.2 - 23.6 GHz	ITU-R F.637
24.25 - 29.5 GHz	ITU-R F.748
36.0 - 40.5 GHz	ITU-R F.749
51.4 - 52.6 GHz	ITU-R F.1496
55.78 - 66 GHz	ITU-R F.1497
71 - 76 GHz /81-86 GHz	ITU-R F.2006
92 - 94 GHz	ITU-R F.2004

\* Secondary basis

## International Mobile Telecommunication (IMT)

694 – 790 MHz

791 – 862 MHz

880 – 960 MHz

1427 – 1518 MHz

1710 – 1785 MHz / 1805 – 1880 MHz

1920 – 1980 MHz / 2110 – 2170 MHz

1980 – 2010MHz/ 2170–2200MHz (terrestrial component of IMT)

2300 – 2400 MHz

2500 – 2690 MHz

3400 – 3800 MHz

24.25 – 27.5 GHz

37 – 43.5 GHz

45.5 – 47 GHz

47.2 – 48.2 GHz

66 – 71 GHz

## Earth Stations

### Very Small Aperture Terminal (VSAT)

#### *Frequency ranges in C-Band*

3 800 – 4 200 MHz (space-to-Earth)

4 500 – 4 800 MHz (space-to-Earth)

5 150 – 5 250 MHz (Earth-to-space)

5 725 – 6 725 MHz (Earth-to-space)

*Frequency ranges in Ku – Band*

10.7 – 11.7 GHz (space-to-Earth) / (Earth-to-space)

12.5 – 13.25 GHz (space-to-Earth) / (Earth-to-space)

13.75 –14.5 GHz (Earth-to-space)

*Frequency ranges in Ka–Band*

19.7 – 21.2 GHz (space-to-Earth)

27.5 – 31 GHz (Earth-to-space)

**Digital Satellite News Gathering (DSNG)**

*Frequency ranges in Ku – Band*

10.7 – 11.7 GHz (space-to-Earth) / (Earth-to-space)

12.5 – 13.25 GHz (space-to-Earth) / (Earth-to-space)

13.75 –14.8 GHz (Earth-to-space)

*Frequency ranges in Ka–Band*

19.7 – 21.2 GHz (space-to-Earth)

27.5 – 31 GHz (Earth-to-space)

**Earth Station installed on Vessel (ESV)**

*Frequency Ranges in L–Band*

1 518 – 1 559 MHz

1 626.5 – 1 660.5 MHz

1 668 – 1 675 MHz

### *Frequency Ranges in C-Band*

3 800 – 4 200 MHz (space-to-Earth)

5 925 – 6 425 MHz (Earth-to-space)

### *Frequency Ranges in Ku – Band*

10.70 – 12.75 GHz (space-to-Earth)

14.0 –14.5 GHz (Earth-to-space)

### *Frequency Ranges in Ka – Band*

19.7–20.2 GHz (space-to-Earth)

29.5–30.0 GHz (Earth-to-space)

## **Earth Station installed on Aircraft (ESA)**

### *Frequency Ranges in L-Band*

1 518 – 1 559 MHz

1 626.5 – 1 660.5 MHz

1 668 – 1 675 MHz

### *Frequency Ranges in Ka – Band*

19.7–20.2 GHz (space-to-Earth)

29.5–30.0 GHz (Earth-to-space)

## **Mobile Satellite Service (MSS)**

### *Frequency Ranges in L – Band*

1 518-1 525 MHz (space-to-Earth)

1 525-1 559 MHz (space-to-Earth)

1 626.5-1 660.5 MHz (space-to-Earth)

1 668-1 675 MHz (Earth-to-space)

1 980- 2010 MHz (Earth-to-space)

## Amateur

135.7 – 137.8 kHz*	21 000 – 21 450 kHz	77.5 – 78 GHz
1 810 – 1 850 kHz	24 890 – 24 990 kHz	78 – 81 GHz*
1850 – 2000 kHz*	28 – 29.7 MHz	122.25 – 123 GHz*
3 500 – 3 800 kHz	50-54MHz	134 – 136 GHz
5 351.5 – 5 366.5 kHz*	144 – 146 MHz	136 – 141 GHz*
7 000 – 7 200 kHz	435 – 438 MHz	241 – 248 GHz*
10 100 – 10 150 kHz*	24 – 24.05 GHz	248 – 250 GHz
14 000 – 14 350 kHz	47 – 47.2 GHz	
18 068 – 18 168 kHz	76 – 77.5 GHz*	

\* secondary basis

## Maritime

415 – 526.5 kHz	406 – 406.1 MHz	5 460 – 5 650 MHz
1.6 – 30 MHz	457.5125 – 457.5875 MHz	9 200 – 9 500 MHz
121.5/123.1 MHz	467.5125 – 467.5875 MHz	13.4 – 14 GHz
156 –162.025 MHz	2 900 – 3 100 MHz	

## Prohibited ranges for transmitting

To protect the passive services, all emissions are prohibited in the following bands:

1 400 – 1 427 MHz	
2 690 – 2 700 MHz	except those provided for by ITU Radio Regulation Article 5.422
10.68 – 10.7 GHz	except those provided for by ITU Radio Regulation Article 5.483
15.35 – 15.4 GHz	except those provided for by ITU Radio Regulation Article 5.511
23.6 – 24 GHz	

31.3 – 31.5 GHz

48.94 – 49.04 GHz from airborne stations

50.2 – 50.4 GHz

52.6 – 54.25 GHz

86 – 92 GHz

100 – 102 GHz

109.5 – 111.8 GHz

114.25 – 116 GHz

148.5 – 151.5 GHz

164 – 167 GHz

182 – 185 GHz

190 – 191.8 GHz

200 – 209 GHz

226 – 231.5 GHz

250 – 252 GHz

Refer to ITU Radio Regulation Article 5.340 Aircraft transmissions are prohibited in the following bands:

1 664.4 – 1 668.4 MHz for air to ground transmissions (ITU Radio Regulation Article 5.379A)

8 025 – 8 400 MHz (ITU Radio Regulation Article 5.463)

## Distress and emergency frequencies

a) 490 kHz 518 kHz 4 209.5 kHz

For NAVTEX in GMDSS (Refer to ITU Radio Regulations Articles 5.79A and 5.84)

b) 490 kHz 4 209.5 kHz

Used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrow band direct printing telegraphy. (Refer to ITU Radio Regulations Articles 5.82 and 5.131)

c) 518 kHz

Supplementary frequency for Maritime Mobile Service (Refer to ITU Radio Regulations Articles 5.84, 33, 51, 52 and Appendix 15).

d) 2 182 kHz

International distress and calling frequency for radiotelephony are prescribed in ITU Radio Regulations Articles 5.108, 28, 30, 32, 51, 52 and 57.

e) 2 187.5 kHz 4 207.5 kHz

6 312 kHz 8 414.5 kHz

12 577 kHz 16 804.5 kHz

156.525 MHz

International distress frequencies for digital selective calling (refer to ITU Radio Regulations Articles 5.109 and 5.110)

f) 2 174.5 kHz 4 177.5 kHz

6 268 kHz 8 376.5 kHz

12 520 kHz 16 695 kHz

International distress frequencies for narrow-band direct-printing telegraphy. (Refer to ITU Radio Regulations Article 5.110)



g) 2 182 kHz      3 023 kHz  
5 680 kHz      8 364 kHz  
10 003 kHz      14 993 kHz  
19 993 kHz

The frequencies 121.5 MHz, 156.525 MHz, 156.8 MHz and 243 MHz may also be used, for search and rescue operations concerning manned space vehicles (Refer to ITU Radio Regulations Article 5.111)

h) 3 023 kHz      4 125 kHz      5 680 kHz      6 215 kHz  
8 291 kHz      12 290 kHz      16 420 kHz

These frequencies may also be used, by stations of the Maritime Mobile Service engaged in coordinated search and rescue operations (Refer to ITU Radio Regulations Articles 5.115, 5.130 and 5.145)

i) 4 210 kHz      6 314 kHz      8 416.5 kHz      12 579 kHz  
16 806.5 kHz      19 680.5 kHz      22 376 kHz      26 100.5 kHz

The international frequencies for the transmission of Maritime Safety Information (MSI) (Refer to ITU Radio Regulations Article 5.132)

j) 121.5 MHz

Is aeronautical emergency frequency and 123.1 MHz is the auxiliary to 121.5 MHz, Mobile Stations of the Maritime Mobile Service may communicate on these frequencies for distress and safety purposes with stations of the Aeronautical Mobile Service. (Refer to ITU Radio Regulation Article 5.200)

k) 156.8 MHz

International distress, safety and calling frequency for the maritime mobile VHF radiotelephone service

l) 243 MHz

The frequency for use by survival craft stations and equipment used for survival purposes (Refer to ITU Radio Regulations Article 5.256)

m) 406 – 406.1 MHz

Used by the Mobile Satellite Service is limited to low power satellite Emergency Position—Indicating Radio-beacons (EPIRB) (Refer to ITU Radio Regulations Articles 5.266 and 5.267)

m) 406 – 406.1 MHz

Used by the Mobile Satellite Service is limited to low power satellite Emergency Position—Indicating Radio-beacons (EPIRB) (Refer to ITU Radio Regulations Articles 5.266 and 5.267)

n) 1 530–1 544 MHz      1 626.5 – 1 645.5 MHz

These Bands shall have priority to accommodate the spectrum requirements for Maritime Mobile—Satellite distress, urgency and safety communications of the Global Maritime Distress and Safety System (GMDSS). (Refer to ITU Radio Regulations Article 5.353A)

o) 1 544 – 1 545 MHz

Used by the Mobile—Satellite Service (space—to—earth) is limited to distress and safety communications (Refer to ITU Radio Regulations Article 5.356).

p) 1 645.5 – 1 646.5 MHz

Used by the Mobile—Satellite Service (Earth—to—space) and for inter—satellite links is limited to distress and safety communications. (Refer to ITU Radio Regulations Article 5.375)

q) 9 200 – 9 500 MHz

For Search and Rescue Transponders (SART) may be used. (Refer to ITU Radio Regulations Article 5.474)

**The following frequency bands are allocated for Industrial, Scientific and Medical use (ISM) applications, according to conditions set by the Communication and Information Technology Regulatory Authority:**

6765-6795 kHz (center frequency 6 780 kHz)

433.05-434.79 MHz (center frequency 433.92 MHz)

61-61.5 GHz (center frequency 61.25 GHz)

122-123 GHz (center frequency 122.5 GHz)

244-246 GHz (center frequency 245 GHz)

(RR5.138)

13 553-13 567 kHz (center frequency 13 560 kHz)

26 957-27 283 kHz (center frequency 27 120 kHz)

40.66-40.70 MHz (center frequency 40.68 MHz)

2 400-2500 MHz (center frequency 2 450 MHz)

24-24.25 GHz (center frequency 24.125 GHz)

ISM equipment operating in these bands is subject to the provisions of No. 15.13.

(RR5.150)

**Ultra-Wide Band (UWB) and Short-Range Devices (SRD)**

These frequency ranges apply to technical conditions according to ITU-R SM.1896, ITU-R M.1033, ITU-R M.2057:

9 kHz - 59.75 kHz	Inductive applications	EN 300 330
59.75 kHz - 60.25 kHz	Inductive applications	EN 300 330
60.25 kHz - 90 kHz	Inductive applications	EN 300 330
9 kHz - 315 kHz	Active Medical Implants and their associated peripherals	EN 302 195
90 kHz - 140 kHz	Inductive applications	EN 300 330

140 kHz - 148.5 kHz	Inductive applications	EN 300 330
148.5 kHz - 5000 kHz	Inductive applications	EN 300 330
315 kHz- 600 kHz	Active Medical Implants and their associated peripherals	EN 302 536
400 kHz - 600 kHz	Inductive applications	EN 300 330
456.9 kHz - 457.1 kHz	Tracking, tracing and data acquisition	EN 300 718
984 kHz - 7484 kHz	Railway applications	EN 302 608
3155 kHz - 3400 kHz	Inductive applications	EN 300 330
5000 kHz - 30 MHz	Inductive applications	EN 300 330
6765 kHz - 6795 kHz	Non-specific	EN 300 330
7300 kHz - 23000 kHz	Railway applications	EN 302 609
7400 kHz - 8800 kHz	Inductive applications	EN 300 330
10200 kHz - 11000 kHz	Inductive applications	EN 300 330
11810 kHz - 12660 kHz	Inductive applications	EN 300 330
12500 kHz - 20000 kHz	Active Medical Implants and their associated peripherals	EN 300 330
13553 kHz - 13567 kHz	Non-specific RFID and EAS	EN 300 330
13567 kHz - 13660 kHz	Inductive applications	EN 300 330
13660 kHz - 13710 kHz	Inductive applications	EN 300 330
13710 kHz - 14010 kHz	Inductive applications	EN 300 330
14010 kHz - 14460 kHz	Inductive applications	EN 300 330
14460 kHz - 15310 kHz	Inductive applications	EN 300 330

26957 kHz - 27283 kHz	Non-specific	EN 300 330
26995, 27045, 27095, 27145, 27195 kHz	Non-specific	EN 300 220
29.7 MHz - 47.0 MHz	Radio microphone applications	EN 300 422
30 MHz - 37.5 MHz	Active Medical Implants and their associated peripherals	EN 302 510
34.995 MHz - 35.225 MHz	Model control	EN 300 220
40.66 MHz - 40.7 MHz	Non-specific	EN 300 220
40.665, 40.675, 40.685, 40.695 MHz	Model control	EN 300 220
72 MHz - 72.25 MHz	Model control	EN 300 220
87.5 MHz - 108 MHz	Wireless audio applications	EN 301 357
138.2 MHz - 138.45 MHz	Non-specific	EN 300 220
169.4 MHz - 169.475 MHz	Non-specific	EN 300 220
	Tracking, tracing and data acquisition	EN 300 220
169.475 MHz - 169.4875 MHz	Aids for the hearing impaired	EN 300 422
	Non-specific	EN 300 220
169.4875 MHz - 169.5875 MHz	Aids for the hearing impaired	EN 300 422
	Non-specific	EN 300 220
169.5875 MHz - 169.8125 MHz	Aids for the hearing impaired	EN 300 422
	Non-specific	EN 300 220
169.4 MHz - 174 MHz	Aids for the hearing impaired	EN 300 422
312 MHz - 315 MHz	Keyless car entry	EN 300 220
401 MHz - 402 MHz	Active Medical Implants and their associated peripherals	EN 302 537
402 MHz - 405 MHz	Active Medical Implants and their associated peripherals	EN 301 839
405 MHz - 406 MHz	Active Medical Implants and their associated peripherals	EN 302 537
433.05 MHz - 434.79 MHz	Non-specific, LPD 433	EN 300 220

863 MHz - 870 MHz	Non-specific, SRD860	EN 300 220
868.7 MHz - 869.2 MHz	Automatic Meter Reading	EN 300 220
869.4 MHz - 869.65 MHz	Non-specific	EN 300 220
865 MHz - 865.6 MHz	RFID	EN 300 208
865.6 MHz - 867.6 MHz	RFID	EN 300 208
867.6 MHz - 868 MHz	RFID	EN 300 208
870 MHz - 875.4 MHz	Non-specific	EN 300 220
870 MHz - 875.8 MHz	Non-specific	EN 300 220
870 MHz - 876 MHz	Non-specific	EN 300 220
870 MHz - 875.6 MHz	Tracking, tracing and data acquisition	EN 303 204
870 MHz - 875.8 MHz	Transport and traffic telematics	EN 300 200
915 MHz - 918 MHz	Non-specific	EN 300 220
918 MHz - 921 MHz	Non-specific	EN 300 220
916.1 - 920.1 MHz	Radio microphone applications including aids for the hearing impaired	EN 300 422
915 - 921 MHz	RFID	EN 302 220
1785 - 1804.8 MHz	Radio microphone applications	EN 300 220
1795 - 1800 MHz	Wireless audio applications	EN 300 220
1880 MHz - 1900 MHz	DECT applications including Cordless Telephony	EN 300 220
2400 MHz - 2483.5 MHz	Wideband data transmission (e.g. WLAN, PMR over WLAN)	EN 300 228
	Radiodetermination applications	EN 300 440

2446 MHz - 2454 MHz	RFID	EN 300 761 EN 300 440
2483.5 MHz - 2500 MHz	Active Medical Implants	EN 301 559
4500 MHz - 7000 MHz	Tank level probing radar	EN 302 372
5150 MHz - 5875 MHz	Indoor conference systems. Indoor only	
5150 MHz - 5250 MHz	Broadband Radio Access Networks (e.g. RLAN). Indoor only	EN 301 893
5250 MHz - 5350 MHz	Broadband Radio Access Networks (e.g. RLAN). Indoor only	EN 301 893
5470 MHz - 5725 MHz	Broadband Radio Access Networks (e.g. RLAN)	EN 301 893
5725 MHz - 5925 MHz	Broadband Radio Access Networks (e.g. RLAN)	EN 301 893
5725 MHz - 5875 MHz	Non-specific Tracking, tracing and data acquisition	EN 300 440 EN 303 258
5795 MHz - 5815 MHz	Transport and traffic telematics	EN 300 674
8500 MHz - 10.6 GHz	Tank level probing radar	EN 302 372
9200 MHz - 9975 MHz	Radiodetermination applications	EN 300 440
10.5 GHz - 10.6 GHz	Radiodetermination applications	EN 300 440
13.4 GHz - 14 GHz	Non-specific	EN 300 440
17.1 GHz - 17.3 GHz	Non-specific Radiodetermination applications	EN 300 440
24 GHz - 24.25 GHz	Non-specific	EN 300 440
24.05 GHz - 27 GHz	Tank level probing radar	EN 302 858

57 GHz - 64 GHz	Non-specific Tank level probing radar	EN 305 550 EN 302 372
57 GHz - 66 GHz	Broadband Radio Access Networks (e.g. RLAN)	EN 302 567
75 GHz - 85 GHz	Tank level probing radar Radiodetermination applications	EN 302 372 EN 302 729
76 GHz - 77 GHz	Railway applications and Transport and traffic telematics	EN 301 091
77.5 - 78 GHz	Ground based short range radar including automotive radars	ITU-R M.2057
122 GHz - 123 GHz	Non-specific	EN 305 550
244 GHz - 246 GHz	Non-specific	EN 305 550

## Broadcasting

### Terrestrial broadcasting plans

Kuwait is signatory of number of ITU-R regional agreements and assigns the frequencies in accordance with the associated plans. Current recorded/coordinated Broadcasting plan/frequencies with respect to their associated agreements are as follows:

### GE-75 Agreement

Regional Agreement concerning the use by the Broadcasting Service of frequencies in the Medium Frequency bands in Regions 1 and 3 and in the Low Frequency bands in Region 1.

**LF: 150-285 kHz**

**MF: 525-1605 kHz**

GE-75 planning area shown in the map below.



### **GE-75 Recorded Assignments for the State of Kuwait:**

Frequency Assignment (kHz)
540
630
963
1134
1269
1341
1485
1548
1602
1530



## GE-84 Agreement

It is related to the Use of the Band 87.5 - 108 MHz for FM Sound Broadcasting and includes the countries of Region 1 as defined in No. 393 of the Radio Regulations along with the Democratic Republic of Afghanistan and the Islamic Republic of Iran. The plan includes assignment in VHF-FM band i.e. Band II: 87.5-108 MHz



### GE-84 Recorded FM Assignments for the State of Kuwait:

Frequency Assignment (MHz)	Frequency Assignment (MHz)
87.9	100
88.1	100.2
88.8	100.5
89	103.7
89.3	103.8
89.5	104
90.1	104.2
90.4	107.4
96.9	107.7
97.5	107.9
97.7	
98.4	
98.6	
98.9	
99.1	
99.7	

## GE-06 Agreement

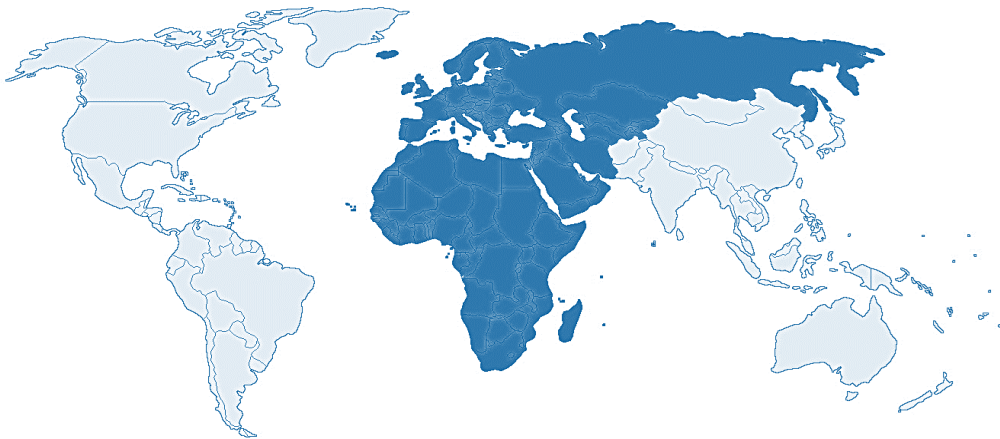
Covers

Band III: 174-230 MHz

Band IV: 470-582 MHz

Band V: 582-862 MHz

in ITU-R Region 1 (those parts of Region 1, as defined in No. 5.3 of the Radio Regulations, situated to the west of meridian 170° E and to the north of parallel 40° S, except the territories of Mongolia) and the Islamic Republic of Iran.



The following frequencies are assigned

Channel	Frequency Assignment (MHz)
11A	216.928
11B	218.64
11D	222.064
12A	223.936
12C	227.36
5	177.5
6	184.5
7	191.5
8	198.5
9	205.5
10	212.5

Channel	Frequency Assignment (MHz)
21	474
24	498
27	522
29	538
30	546
31	554
32	562
34	578
36	594
39	618
41	634
44	658
46	674

