National Frequency Plan
NORWAY

1240MHz - 400GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1240 - 1260 MHz	RADIOLOCATION RADIONAVIGATION -SATELLITE(space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) Amateur S5.331 S5.332	RADIOLOCATION RADIONAVIGATION SATELLITE(space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur S5.331 S5.332	Radar and Navigation Systems and Active Sensors; GNSS		RADIOLOCATION RADIONAVIGATION SATELLITE(space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur S5.331 S5.332	
1260 - 1270 MHz	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) Amateur S5.282 S5.331 S5.332	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur Amateur-Satellite S5.282 S5.331 S5.332	Radar and Navigation Systems and Active Sensors		RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur Amateur-Satellite S5.282 S5.331 S5.332	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1270 - 1300 MHz	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) Amateur S5.331 S5.332	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur S5.331 S5.332	Radar and Navigation Systems and Active Sensors	Wind profiler radars between 1270 MHz and 1295 MHz	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur S5.331 S5.332	
1300 - 1350 MHz	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.149	AERONAUTICAL RADIONAVIGATION S5.337 RADIOLOCATION S5.149	Radar and Navigation Systems	RA spectral line observations 1330 - 1400 MHz.	AERONAUTICAL RADIONAVIGATION S5.337 RADIOLOCATION S5.149	Radar,
1350 - 1400 MHz	FIXED MOBILE RADIOLOCATION S5.149 S5.338 S5.339	FIXED RADIOLOCATION MOBILE S5.149 S5.339	Defence systems. Low capacity fixed links	EU2 EU15A EU15 Channel plan for the fixed service in ERC Recommendation T/R 13- 01, Annex A. RA spectral line observations 1330 - 1400 MHz.	FIXED S5.149 S5.339	Radio Link, T/R13-01, Annex A 1350 – 1375/1492 – 1517 MHz T/R13-01, Annex B 1375 – 1400/1427 – 1452 MHz not opened yet.

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1400 - 1427 MHz	EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.341	EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.341	Passive applications		EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.341	Silent band
1427 - 1429 MHz	SPACE OPERATION (Earth-space) FIXED MOBILE except aeronautical mobile S5.341	SPACE OPERATION (Earth-space) FIXED MOBILE except aeronautical mobile S5.341	Defence systems Low capacity fixed links	EU2 EU15A EU15 Channel plan for the fixed service in ERC ERC Recommendation T/R 13 - 01, Annex B.	SPACE OPERATION (Earth-space) FIXED MOBILE except aeronautical mobile S5.341	Radio Link, 1427 – 1472/1517-1525 MHz. Channel plan to be changed to: 1350 – 1375/1492-1517 MHz 1375 – 1400/1427-1452 MHz
1429 - 1452 MHz	FIXED MOBILE except aeronautical mobile S5.341 S5.342	FIXED MOBILE except aeronautical mobile S5.341			FIXED MOBILE except aeronautical mobile S5.341	Radio Link, 1427 – 1472/1517-1525 MHz. Channel plan to be changed to: 1350 – 1375/1492-1517 MHz 1375 – 1400/1427-1452 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1452 - 1492 MHz	FIXED MOBILE except aeronautical mobile BROADCASTING S5.345 S5.347 BROADCASTING - SATELLITE S5.345 S5.347 S5.341 S5.342	BROADCASTING S5.345 S5.347 BROADCASTING-SATELLITE S5.345 S5.347 Fixed Mobile except Aeronautical Mobile S5.341 S5.342	Digital Audio Broadcasting T-DAB Wiesbaden Special Arrangement 1995	EU15 ERC Recommendation T/R 52-02.	BROADCASTING S5.345 BROADCASTING-SATELLITE S5.345 Fixed Mobile except Aeronautical Mobile S5.341	T-DAB channels Radio Link, 1427 – 1472/1517-1525 MHz. Channel plan to be changed to: 1350 – 1375/1492-1517 MHz 1375 – 1400/1427-1452 MHz
1492 - 1517 MHz	FIXED MOBILE except aeronautical mobile S5.341 S5.342	FIXED MOBILE except aeronautical mobile S5.341 S5.342	Defence systems Low capacity fixed links	EU2 EU X EU15 Channel plan for the fixed service in ERC Recommendation T/R 13 - 01, Annex A.	FIXED MOBILE except aeronautical mobile S5.341 S5.342	Radio Link, transfer from 800 MHz band. T/R13-01 Annex A 1492 – 1517/1350 – 1375 MHz
1517 - 1525 MHz		FIXED MOBILE except aeronautical mobile S5.341 S5.342	Unidirectional fixed links Defence systems	EU2 EU X EU15	FIXED MOBILE except aeronautical mobile S5.341 S5.342	Radio Link, to be terminated.

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1525 - 1530 MHz	SPACE OPERATION (space-Earth) FIXED MOBILE SATELLITE (space-Earth) Earth Exploration Satellite Mobile except aeronautical mobile S5.341 S5.342 S5.349 S5.351 S5.352A S5.353A S5.354 S5.350	SPACE OPERATION (space-Earth) FIXED MOBILE-SATELLITE (space-Earth) S5.341 S5.342 S5.351 S5.353A S5.354	Unidirectional fixed links Mobile satellite systems	EU15	SPACE OPERATION (space-Earth) FIXED MOBILE-SATELLITE (space-Earth) S5.341 S5.342 S5.351 S5.353A S5.354	MOBILE-SATELLITE (space-Earth), 1525 – 1545 MHz Radio Link, to be terminated.
1530 - 1533 MHz	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) S5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile S5.341 S5.342 S5.351 S5.353A S5.354	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) Earth exploration-satellite Fixed Mobile except aeronautical mobile S5.341 S5.342S5.351 S5.353A S5.354	Mobile satellite systems	EU15	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) Earth exploration-satellite Fixed Mobile except aeronautical mobile S5.341 S5.342S5.351 S5.353A S5.354	MOBILE-SATELLITE (space-Earth), 1525 – 1545 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1533 - 1535 MHz	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) S5.353A Earth exploration satellite Fixed Mobile except aeronautical mobile S5.341 S5.342 S5.351 S5.353A S5.354	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) Earth exploration satellite Mobile except aeronautical mobile S5.341 S5.342 S5.351 S5.353A S5.354	Mobile satellite systems	EU15	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) Earth exploration satellite Mobile except aeronautical mobile S5.341 S5.342 S5.351 S5.353A S5.354	MOBILE-SATELLITE (space-Earth), 1525 – 1545 MHz Radio Link, to be terminated.
1535 - 1544 MHz	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.353A S5.354 S5.355	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.353A S5.354	Mobile satellite systems	EU15	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.353A S5.354	MOBILE-SATELLITE (space-Earth), 1525 – 1545 MHz
1544 - 1545 MHz	MOBILE SATELLITE (space-Earth) S5.341 S5.354 S5.355 S5.356	MOBILE SATELLITE (space-Earth) S5.354 S5.356	Search and rescue satellite systems including GMDSS Mobile satellite systems	EU15	MOBILE SATELLITE (space-Earth) S5.354 S5.356	MOBILE-SATELLITE (space-Earth), 1525 – 1545 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1545 - 1555 MHz	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.357 S5.359 S5.362A	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.357 S5.359 S5.362A	Mobile satellite systems	EU15 + EU15A	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.357 S5.362A	MOBILE SATELLITE (space-Earth)
1555 - 1559 MHz	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.359 S5.362B	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.359	Mobile satellite systems	EU15	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354	MOBILE SATELLITE (space-Earth)
1559 - 1610 MHz	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION SATELLITE (space-Earth) S5.341 S5.359 S5.363	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION SATELLITE (space-Earth) S5.341 S5.359	GNSS	EU15	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION SATELLITE (space-Earth) S5.341	GPS 1575,42 MHz +/- 14 MHz
1610 - 1610.6 MHz	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) S5.341 S5.355 S5.359 S5.363 S5.364 S5.366 S5.367 S5.368 S5.369 S5.372	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) S5.341 S5.355 S5.359 S5.364 S5.367 S5.368 S5.372	Satellite personal communications systems	EU15 ERC Decision ERC/DEC/(97)03	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) S5.341 S5.364 S5.367 S5.368 S5.372	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1610.6 - 1613.8 MHz	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.355 S5.359 S5.363 S5.364 S5.366 S5.367 S5.368 S5.369 S5.371 S5.372	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.359 S5.364 S5.366 S5.367 S5.368 S5.372	Satellite personal communications systems Radio astronomy applications	EU15 ERC Decision ERC/DEC/(97)03 Important band for radio astronomy spectral line observations.	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.364 S5.366 S5.367 S5.368 S5.372	
1613.8 - 1626.5 MHz	MOBILE-SATELLITE (Earth-space) AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-Earth) S5.341 S5.355 S5.359 S5.363 S5.364 S5.365 S5.366 S5.367 S5.368 S5.369 S5.371 S5.372	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) Mobile satellite (space-Earth) S5.341 S5.359 S5.364 S5.365 S5.367 S5.368 S5.372 S5.373	Satellite personal communications systems	EU15 ERC Decision ERC/DEC/(97)03	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) Mobile satellite (space-Earth) S5.341 S5.364 S5.365 S5.367 S5.368 S5.372	Big LEO mobile satellite systems: 1621.35 – 1626.5 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1626.5 - 1631.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.355 S5.359 S5.353A	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359	Mobile satellite systems		MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359	MOBILE-SATELLITE (Earth-space)1626.5 –1646.5 MHz
1631.5 - 1636.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.355 S5.359 S5.374 S5.353A	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359 S5.374	Mobile satellite systems	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359 S5.374	MOBILE-SATELLITE (Earth-space)1626.5 –1646.5 MHz
1636.5 - 1645.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.355 S5.359	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359	Mobile satellite systems	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359	MOBILE-SATELLITE (Earth-space)1626.5 –1646.5 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1645.5 - 1646.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.354 S5.375	MOBILE-SATELLITE (Earth-space) S5.341 S5.354 S5.375	Search and rescue satellite system including GMDSS	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.354 S5.375	MOBILE-SATELLITE (Earth-space)1626.5 –1646.5 MHz
1646.5 - 1656.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.355 S5.359 S5.376 S5.362B	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.359 S5.362B S5.376	Mobile satellite systems	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.376	
1656.5 - 1660 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.355 S5.359 S5.374 S5.362B	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.359 S5.360 S5.362B S5.374	Mobile satellite systems	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.360 S5.374	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1660 - 1660.5 MHz	MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.351 S5.354 S5.376A S5.362B	MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.351 S5.354 S5.376A S5.362B	In accordance with ECARadio astronomy applications Mobile satellite systems	EU15 Important band for radio astronomy. VLBI	MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.351 S5.354 S5.376A S5.362B	
1660.5 - 1668.4 MHz	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except Aeronautical Mobile S5.149 S5.341 S5.379 S5.379A	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile S5.149 S5.341 S5.379A	Radioastronomy applications Mobile systems	EU2 EU15A EU15 Important band for radio astronomy: Continuum line and VLBI measurements.	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile S5.149 S5.341 S5.379A	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1668.4 - 1670 MHz	METEOROLOGICAL AIDS FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149 S5.341	METEOROLOGICAL AIDS FIXED RADIO ASTRONOMY Mobile except aeronautical mobile S5.149 S5.341	Radio astronomy applications Mobile systems Meteorological applications	EU2 EU15A EU15 Important band for radio astronomy.	METEOROLOGICAL AIDS RADIO ASTRONOMY Mobile except aeronautical mobile S5.149 S5.341	
1670 - 1675 MHz	METEOROLOGICAL AIDS FIXED METEOROLOGICAL -SATELLITE (space-Earth) MOBILE S5.380 S5.341	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) MOBILE S5.380 Fixed S5.341	TFTS (ground to air) Meteorological applications	ERC Decision ERC/DEC/(92) 01. ERC Recommendation T/R 42-01.	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) MOBILE S5.380 S5.341	TFTS 1670 – 1675/1800 – 1805 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1675 – 1690 MHz	METEOROLOGICAL AIDS FIXED METEOROLOGICAL -SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.341	METEOROLOGICAL AIDS FIXED METEOROLOGICAL SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.341	Mobile systems Meteorological applications	EU2 EU15A EU15	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.341	Governmental users
1690 – 1700 MHz	METEOROLOGICAL AIDS METEOROLOGICAL -SATELLITE (space-Earth) Fixed Mobile except Aeronautical Mobile S5.289 S5.341 S5.382	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) Fixed Mobile except Aeronautical Mobile S5.341 S5.382	Meteorological applications	EU2 EU15A EU15	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) Mobile except Aeronautical Mobile S5.341	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1700 - 1710 MHz	FIXED METEOROLOGICAL -SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.289 S5.341	FIXED METEOROLOGICAL SATELLITE (space-Earth) [Mobile except Aeronautical Mobile] S5.341	Meteorological applications	EU2 EU15A EU15	METEOROLOGICAL SATELLITE (space-Earth) [Mobile except Aeronautical Mobile] S5.341	
1710 - 1785 MHz	FIXED MOBILE S5.380 S5.149 S5.341 S5.385 S5.386 S5.387 S5.388	FIXED MOBILE S5.149 S5.341 S5.385	DCS 1800	EU15 ERC Decision ERC/DEC/(95)03 ERC Recommendation T/R 22- 07	MOBILE S5.149 S5.341 S5.385	DCS1800 1710 – 1785/1805 – 1880 MHz
1785 - 1800 MHz		FIXED MOBILE	Mobile systems	EU2 EU15 Radio microphones (under study)	MOBILE	Governmental users Civil wireless microphones

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1800 - 1805 MHz		MOBILE S5.380 Fixed	TFTS (air to ground)	EU15 ERC Decision ERC/DEC/(92) 01 ERC Recommendation T/R 42-01	MOBILE S5.380	TFTS 1800 – 1805/1670 – 1675 MHz
1805 - 1880 MHz		FIXED MOBILE	DCS 1800	EU15 ERC Decision ERC/DEC/(95)03 ERC Recommendation T/R 22 - 07	MOBILE	DSC1800 1805 – 1880/1710 – 1785 MHz
1880 - 1885 MHz		MOBILE Fixed	DECT	EU15 ERC Decision ERC/DEC/(94) 03	MOBILE	DECT
1885 - 1900 MHz		MOBILE Fixed S5.388	DECT	EU15 ERC Decision ERC/DEC/(94) 03	MOBILE S5.388	DECT

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1900 - 1930 MHz		FIXED MOBILE S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE S5.388	UMTS planned 1900 – 1980 MHz
1930 - 1970 MHz	FIXED MOBILE S5.388	FIXED MOBILE S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE S5.388	UMTS planned 1900 – 1980 MHz
1970 - 1980 MHz	FIXED MOBILE S5.388					UMTS planned 1900 – 1980 MHz
1980 - 2010 MHz	FIXED MOBILE MOBILE-SATELLITE (Earth-space) S5.388 S5.389A S5.389B S5.389F	FIXED MOBILE MOBILE- SATELLITE (Earth - space) S5.388 S5.389	IMT-2000 Satellite personal communications systems	EU16 EU15 ERC Decisions ERC/DEC/(97)03, ERC/DEC/(97)04 and ERC/DEC/(97)07	MOBILE MOBILE- SATELLITE (Earth - space) S5.388 S5.389	UMTS satellite component planned 1980 – 2010 MHz
2010 - 2025 MHz	FIXED MOBILE S5.388	FIXED MOBILE S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE S5.388	UMTS planned 2010 – 2025 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2025 - 2110 MHz	SPACE OPERATION (Earth-space) (space-Earth) EARTH EXPLORATION-SATELLITE (Earth-space) (space-space) FIXED MOBILE S5.391 SPACE RESEARCH (Earth-space) (space-space) S5.392	FIXED MOBILE S5.391 SPACE RESEARCH (Earth-space) (Space - Space) SPACE OPERATION (Earth-space) (Space - Space) EARTH EXPLORATION SATELLITE (Earth-space) (Space - Space) S5.392	Fixed links Space science services Mobile systems	EU2 EU16A EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex C.	FIXED MOBILE S5.391 SPACE RESEARCH (Earth-space) (Space - Space) SPACE OPERATION (Earth-space) (Space - Space) EARTH EXPLORATION SATELLITE (Earth-space) (Space - Space) S5.392	Radio Link, P-MP planned T/R13-01 Annex C 2025 – 2110/2200 – 2290 MHz Space operation (Earth-space) (Space - Space) Earth exploration satellite (Earth-space) (Space - Space) Governmental users
2110 - 2120 MHz	FIXED MOBILE SPACE RESEARCH (deep space)(Earth-space) S5.388	FIXED MOBILE SPACE RESEARCH (Earth-space, deep space) S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE SPACE RESEARCH (Earth-space, deep space) S5.388	UMTS planned 2110 – 2170 MHz
2120 - 2170 MHz	FIXED MOBILE S5.388	FIXED MOBILE S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE S5.388	UMTS planned 2110 – 2170 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2170 - 2200 MHz	FIXED MOBILE MOBILE-SATELLITE (space-Earth) S5.388 S5.389A S5.389F S5.392A	FIXED MOBILE MOBILE-SATELLITE (space-Earth) S5.388 S5.389A S5.392A	IMT-2000 Satellite personal communications systems	EU16 ERC Decisions ERC/DEC/(97)03, ERC/DEC/(97)04 and ERC/DEC/(97)07	MOBILE MOBILE-SATELLITE (space-Earth) S5.388 S5.389A S5.392A	UMTS satellite component considered 2170 – 2200 MHz
2200 - 2290 MHz	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE S5.391 SPACE RESEARCH (space-Earth) (space-space) S5.392	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE S5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) S5.392	Fixed links Space science services Mobile systems	EU16A EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex C. RA VLBI	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE S5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) S5.392	Radio Link, P-MP planned T/R13-01 Annex C 2200 – 2290/2025 – 2110 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
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)	Mobile systems	EU2 RA VLBI	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-Earth)	FIXED & MOBILE, not open for new users.
2300 - 2400 MHz	FIXED MOBILE Amateur Radiolocation S5.150 S5.282 S5.395	FIXED MOBILE Amateur Radiolocation S5.150 S5.395	Mobile systems	EU2 ERC Recommendation CEPT/ERC/REC 62-02. Parts of the band are used for aeronautical telemetry on a national basis.	MOBILE Amateur S5.150 S5.395	Amateur, secondary. Pay attention on 2300 – 2330 MHz, protect 2320 +/- 3 MHz.
2400 - 2450 MHz		FIXED MOBILE Amateur Amateur satellite S5.282 S5.150	ISM, SRD, WBDTS, R-Tags	EU2 ERC Recommendation CEPT/ERC/REC 70-03	FIXED MOBILE Amateur Amateur satellite S5.282 S5.150	ISM(2400 – 2500MHz), secondary services.
2450 - 2483.5 MHz	FIXED MOBILE Radiolocation S5.150 S5.397	FIXED MOBILE S5.150 S5.397	ISM, SRD, WBDTS, R-Tags	EU2 ERC Recommendation CEPT/ERC/REC 70-03	FIXED MOBILE S5.150	ISM(2400 – 2500MHz), secondary services.

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2483.5 - 2500 MHz	FIXED MOBILE MOBILE-SATELLITE (space-Earth) Radiolocation S5.150 S5.371 S5.397 S5.398 S5.399 S5.400 S5.402	FIXED MOBILE MOBILE- SATELLITE (space-Earth) S5.150 S5.397	In accordance with ECA Satellite personal communications systems ISM	EU15 ERC Decision ERC/DEC/(97)03)	FIXED MOBILE MOBILE- SATELLITE (space-Earth) S5.150	ISM(2400 – 2500MHz), secondary services.
2500 - 2520 MHz	FIXED S5.409 S5.410 S5.411 MOBILE except Aeronautical Mobile MOBILE-SATELLITE (space-Earth) S5.403 S5.405 S5.407 S5.408 S5.412 S5.414	MOBILE- SATELLITE (space-Earth) Fixed Mobile except aeronautical mobile S5.403 S5.414	Mobile satellite systems	EU15	MOBILE- SATELLITE (space-Earth) Fixed Mobile except aeronautical mobile S5.403 S5.414	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2520 - 2655 MHz	FIXED S5.409 S5.410 S5.411 MOBILE except Aeronautical Mobile BROADCASTING-SATELLITE S5.412 S5.413 S5.339 S5.403 S5.405 S5.408 S5.416 S5.417 S5.418	FIXED MOBILE except aeronautical mobile S5.339 S5.403	Fixed links Defence systems	EU2 EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex D.	FIXED MOBILE except aeronautical mobile S5.339 S5.403	Radio access planned, T/R13-01 Annex D Governmental users
2655 - 2670 MHz	FIXED S5.409 S5.410 S5.411 MOBILE except Aeronautical Mobile BROADCASTING-SATELLITE S5.413 S5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) S5.149 S5.412 S5.417 S5.420	FIXED MOBILE except aeronautical mobile Earth exploration satellite (passive) Radio astronomy Space research (passive) S5.149 S5.420	Fixed links Mobile systems	EU2 EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex D. RA continuum measurements.	FIXED MOBILE except aeronautical mobile Earth exploration satellite (passive) Radio astronomy Space research (passive) S5.149 S5.420	Radio access planned, T/R13-01 Annex D

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2670 - 2690 MHz	FIXED S5.409 S5.410 S5.411 MOBILE except Aeronautical Mobile MOBILE-SATELLITE (Earth-space) Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) S5.149 S5.409 S5.410 S5.411 S5.419 S5.420	MOBILE- SATELLITE (Earth-space) Fixed Mobile except aeronautical mobile Radioastronomy S5.149 S5.419 S5.420	Mobile satellite systems	EU15 RA continuum measurements.	MOBILE- SATELLITE (Earth-space) Fixed Mobile except aeronautical mobile Radioastronomy S5.149 S5.419 S5.420	MOBILE- SATELLITE (Earth-space) not open for use by Radio Link.
2690 - 2700 MHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.421 S5.422	EARTH EXPLORATION - SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.421 S5.422	Passive applications		EARTH EXPLORATION - SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2700 - 2900 MHz	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.423 S5.424	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.423	Radars and Navigation Systems Meteorological radars		AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.423 S5.424	Governmental users.
2900 - 3100 MHz	RADIONAVIGATION S5.426 Radiolocation S5.425 S5.427	RADIONAVIGATION S5.426 Radiolocation S5.425 S5.427	Radars		RADIONAVIGATION S5.426 Radiolocation S5.425 S5.427	Governmental users. Radar
3100 - 3300 MHz	RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active) S5.149 S5.428	RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active) S5.149 S5.428	Radars and Active Sensors		RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active) S5.149 S5.428	Governmental users.
3300 -3400 MHz	RADIOLOCATION S5.149 S5.429 S5.430	RADIOLOCATION	Radars		RADIOLOCATION S5.149 S5.429 S5.430	Governmental users.

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
3400 - 3500 MHz	FIXED FIXED-SATELLITE (space-Earth) Mobile Radiolocation S5.431	FIXED FIXED-SATELLITE (space-Earth) MOBILE Amateur Radiolocation S5.431	Fixed links. Wireless fixed access systems.	ERC Recommendation CEPT/ERC/REC 14-03 Fixed includes point to multipoint. Mobile for coordinated ENG/OB links for occasional use. Upper limit for airborne radars is 3410 MHz.	FIXED FIXED-SATELLITE (space-Earth) MOBILE Amateur Radiolocation S5.431	FIXED, Spread spectrum systems. Amateur, secondary, 3400 – 3410 MHz. MOBILE limited to ENG/OB.
3500 - 3600 MHz		FIXED FIXED-SATELLITE (space-Earth) MOBILE	Fixed links. Wireless fixed access systems.	ERC Recommendation CEPT/ERC/REC 14-03 Fixed includes point to multipoint. Coordinated ENG/OB links for occasional use.	FIXED FIXED-SATELLITE (space-Earth) MOBILE	FIXED, Spread spectrum systems. MOBILE limited to ENG/OB.
3600 - 4200 MHz	FIXED FIXED-SATELLITE (space-Earth) Mobile	FIXED FIXED-SATELLITE (space-Earth)	Medium/High capacity fixed links, plan to be developed Telecommunications satellites to coordinated Earth stations. Priority for civil networks		FIXED FIXED-SATELLITE (space-Earth)	Radio Link, ITU-R F.382(Mod), 3600 – 3800 MHz Radio Link, prog.distribution, ITU-R F.382, 3800 – 4200 MHz FIXED-SATELLITE (space-Earth) 3600 – 3623 MHz
4200 - 4400 MHz	AERONAUTICAL RADIONAVIGATION S5.438 S5.437 S5.439 S5.440	AERONAUTICAL RADIONAVIGATION S5.438 S5.437 S5.440	Radio altimeters	EU18 Earth exploration satellite use for sea surface temperature measurements.	AERONAUTICAL RADIONAVIGATION S5.437 S5.438 S5.440	Radio altimeters

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
4400 - 4500 MHz	FIXED MOBILE	FIXED MOBILE	Transhorizon links. Defence systems.	EU2 EU20 EU27 This is a harmonised military band for fixed and mobile systems. Coordinated ENG/OB links for occasional use.	FIXED MOBILE	Governmental users.
4500 - 4800 MHz	FIXED FIXED-SATELLITE (space-Earth) S5.441 MOBILE	FIXED FIXED-SATELLITE (space-Earth) S5.441 MOBILE	Defence systems.	EU20 EU27 Coordinated ENG/OB links for occasional use. Transhorizon links. Telecommunications satellites to coordinated Earth stations. Fixed Satellite frequency plan in 4500 - 4800 MHz Fixed Satellite Service not to be implemented in NATO Europe. This is a harmonised military band for fixed and mobile systems.	FIXED FIXED-SATELLITE (space-Earth) S5.441 MOBILE	ITU RR AP30B art.10, downlink. Governmental users.

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
4800 - 4990 MHz	FIXED MOBILE S5.442 Radio Astronomy S5.149 S5.339 S5.443	FIXED MOBILE except Aeronautical Mobile Radio Astronomy S5.149 S5.339	Defence systems.	EU20 EU27 Coordinated ENG/OB links for occasional use. This is a harmonised military band for fixed and mobile systems. Space Research and EES (passive) above 4950 MHz in some countries. RA continuum measurements.	FIXED MOBILE except Aeronautical Mobile Radio Astronomy S5.149 S5.339	Governmental users.
4990 - 5000 MHz	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY Space Research (passive) S5.149	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	RA continuum measurements and VLBI	EU20 EU27 Coordinated ENG/OB links for occasional use. This is a harmonised military band for fixed and mobile systems.	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	Governmental users.
5000 - 5030 MHz	AERONAUTICAL RADIONAVIGATION S5.367 S5.444 S5.444A	AERONAUTICAL RADIONAVIGATION Radio Astronomy Space Research (passive) S5.367 S5.444 S5.444A		Aeronautical Radionavigation and Fixed Satellite Service envisaged in some countries. RA VLBI observations.	AERONAUTICAL RADIONAVIGATION Radio Astronomy Space Research (passive) S5.367 S5.444 S5.444A	MLS under consideration 5000 – 5100 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5030 - 5150 MHz		AERONAUTICAL RADIONAVIGATION S5.367 S5.444 S5.444A	MLS	EU18 Aeronautical Radionavigation envisaged in some countries. Fixed Satellite Service in use in some countries.	AERONAUTICAL RADIONAVIGATION S5.367 S5.444 S5.444A	MLS under consideration 5000 – 5100 MHz
5150 - 5250 MHz	AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-space) S5.447A S5.446 S5.447 S5.447B S5.447C	MOBILE FIXED-SATELLITE (Earth-space) S5.447A S5.446 S5.447 S5.447B S5.447C	HIPERLANs Feeder links for the Mobile-Satellite service	ERC Decision ERC/DEC/(96)03 ERC Recommendation CEPT/ERC/REC 70-03. Aeronautical Radionavigation and Fixed Satellite Service envisaged in some countries.	MOBILE FIXED-SATELLITE (Earth-space) S5.447A S5.446 S5.447 S5.447B S5.447C	HIPERLAN considered, ERC REC T/R22-06
5250 - 5255 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH S5.447D S5.448 S5.448A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH Mobile S5.447D S5.448 S5.448A	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing Active Sensors	EU22 ERC Recommendation CEPT/ERC/REC 70-03. HIPERLANs extension band 5250 - 5300 MHz on a national basis.	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH Mobile S5.447D S5.448A	HIPERLAN extension considered, 5250-5300 MHz ERC REC T/R22-06

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5255 - 5350 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) S5.448 S5.448A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Mobile S5.448 S5.448A	: Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing Active Sensors	EU22 ERC Recommendation CEPT/ERC/REC 70-03. HIPERLANs extension band 5250 - 5300 MHz on a national basis.	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Mobile S5.448A	HIPERLAN extension considered, 5250-5300 MHz ERC REC T/R22-06
5350 - 5450 MHz	AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active) Radiolocation S5.448B	AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active) Fixed Radiolocation S5.448B	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing Active Sensors	EU22	AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active) Fixed Radiolocation S5.448B	
5450 - 5460 MHz		AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active)Radiolocation S5.448B	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing Active sensors	EU22	AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active)Radiolocation S5.448B	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5460 - 5470 MHz	RADIONAVIGATION S5.449 Radiolocation	RADIONAVIGATION S5.449 Radiolocation	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing	EU22	RADIONAVIGATION S5.449 Radiolocation	
5470 - 5650 MHz	MARITIME RADIONAVIGATION Radiolocation S5.450 S5.451 S5.452	MARITIME RADIONAVIGATION Radiolocation S5.450 S5.451 S5.452	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing	EU22	MARITIME RADIONAVIGATION Radiolocation S5.452	
5650 - 5725 MHz	RADIOLOCATION Amateur Space Research (deep space) S5.282 S5.451 S5.453 S5.454 S5.455	RADIOLOCATION Amateur S5.282 S5.451 S5.454 S5.455	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing	EU22, EU17,23 Amateur Satellite Service (Earth to space), 5650 - 5670 MHz from RR S5.282.	RADIOLOCATION Amateur S5.282	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5725 - 5830 MHz	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur S5.150 S5.451 S5.453 S5.455 S5.456	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Mobile S5.451 S5.455 S5.457	Non civil radiolocation. Ground based and airborne weather radar. ISM 5725 - 5875 MHz. 5795 - 5805 MHz Road Transport and Traffic Telematic Systems (RTTT). SRDs in 5725 – 5875 MHz.	EU22, EU23 ERC Decision ERC/DEC/(92)02 ERC Recommendation CEPT/ERC/REC 70-03. Amateur Satellite Service (space to Earth), 5830 - 5850 MHz from RR S5.282. RTTT in 5805-5815 MHz on a national basis.	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur S5.150	Road Transport Information systems, T/R22-04 5795 –5850 MHz ISM, secondary services, T/R01-04 5725 – 5875 MHz Amateur Satellite(s-E) 5830 – 5850 MHz
5830 - 5850 MHz	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Amateur-Satellite (space-Earth) S5.150 S5.451 S5.453 S5.455 S5.456				FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Amateur-Satellite (space-Earth) S5.150	Amateur Satellite(s-E) 5830 – 5850 MHz ISM, secondary services, T/R01-04 5725 – 5875 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5850 - 5925 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.150	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.150	ISM 5725 - 5875 MHz Telecommunications satellites from coordinated Earth stations. Priority for civil networks	ERC Recommendation CEPT/ERC/REC 70-03.	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.150	ISM, secondary services, T/R01-04 5725 – 5875 MHz
5925 - 6425 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.149 S5.440 S5.458	FIXED FIXED-SATELLITE (Earth-space) S5.149	Medium/High capacity fixed links. Telecommunications satellites from coordinated Earth stations. Priority for civil networks.	ERC Recommendation CEPT/ERC/REC 14-01	FIXED FIXED-SATELLITE (Earth-space) S5.149	Radio Link , transport link, ITU-R F.383 5925 – 6425 MHz
6425 – 6700 MHz		FIXED FIXED-SATELLITE (Earth-space) S5.441 Earth Exploration-Satellite (passive) S5.149 S5.440 S5.458 S5.458A S5.458B S5.458C	Medium/High capacity fixed links. Telecommunications satellites from coordinated Earth stations. Priority for civil networks. Fixed Satellite Plan 6725 - 7025 MHz. Feeder links for the MSS in 6925 - 7075 MHz.	ERC Recommendation CEPT/ERC/REC 14-02. EESS sea surface temperature measurements.	FIXED FIXED-SATELLITE (Earth-space) S5.441 Earth Exploration-Satellite (passive) S5.149 S5.440 S5.458 S5.458A S5.458B S5.458C	Radio Link, ITU-R F.384 6425 - 7100 MHz Fixed-satellite, uplink

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
6700 - 7075 MHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441 MOBILE S5.458 S5.458A S5.458B S5.458C	FIXED FIXED-SATELLITE (Earth-space) S5.441 Earth Exploration-Satellite (passive) S5.149 S5.440 S5.458 S5.458A S5.458B S5.458C			FIXED FIXED-SATELLITE (Earth-space) S5.441 Earth Exploration-Satellite (passive) S5.149 S5.440 S5.458 S5.458A S5.458B S5.458C	Radio Link, ITU-R F.384 6425 - 7100 MHz ITU RR AP30B art.10 6725 – 7025 MHz
7075 - 7125 MHz	FIXED MOBILE S5.458 S5.459 S5.460	FIXED Earth Exploration-Satellite (passive) S5.458	Medium/High capacity fixed links	ERC Recommendation CEPT/ERC/REC 14-02 EESS sea surface temperature measurements.	FIXED Earth Exploration-Satellite (passive) S5.458	Radio Link, ITU-R F.384 6425 - 7100 MHz
7125 - 7250 MHz		FIXED MOBILE Earth Exploration-Satellite (Earth-space) Space Research (Earth-space) Space Operation (Earth-space) S5.458 S5.460	Fixed links based on Recommendation ITU-R F. 385	EESS sea surface temperature measurements.	FIXED MOBILE Earth Exploration-Satellite (Earth-space) Space Research (Earth-space) Space Operation (Earth-space) S5.458 S5.460	Radio Link, ITU-R F.385 7125 – 7425 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
7250 - 7300 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.461	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.461	Fixed links based on Recommendation ITU-R F. 385 Mobile satellite 7250 - 7375 MHz Defence systems	EU2 EU27 This is a harmonised military band for satellite operation. FIXED and MOBILE services not to be implemented in most NATO countries.	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.461	Radio Link, ITU-R F.385 7125 – 7425 MHz
7300 - 7450 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461	Fixed links based on Recommendation ITU-R F. 385 Mobile satellite 7250 - 7375 MHz Defence systems	EU2 EU27 This is a harmonised military band for satellite operation.	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461	Radio Link, ITU-R F.385 7125 – 7425 MHz 7425 – 7725 MHz
7450 - 7550 MHz	FIXED FIXED-SATELLITE (space-Earth) METEOROLOGICAL -SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461A	FIXED FIXED-SATELLITE (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461A	Fixed links based on Recommendation ITU-R F. 385 Defence systems	EU2 EU27 This is a harmonised military band for satellite operation. Meteorological satellites limited to geostationary systems	FIXED FIXED-SATELLITE (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461A	Radio Link, ITU-R F.385 7425 – 7725 MHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
7550 - 7750 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile	Fixed links based on Recommendation ITU-R F. 385 Defence systems	EU2 EU27 This is a harmonised military band for satellite operation.	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile	Radio Link, ITU-R F.385 7425 – 7725 MHz Radio Link, ITU-R F.386 (MOD) 7725 – 7925 MHz
7750 - 7850 MHz	FIXED MOBILE except Aeronautical Mobile METEOROLOGICAL SATELLITE (space-to-Earth) S5.461B	FIXED MOBILE except Aeronautical Mobile METEOROLOGICAL SATELLITE (space-to-Earth) S5.461B	Fixed links based on Recommendation ITU-R F.386. Defence systems.	EU2 Meteorological satellites limited to non-geostationary systems Military use in some countries.	FIXED MOBILE except Aeronautical Mobile METEOROLOGICAL SATELLITE (space-to-Earth) S5.461B	Radio Link, ITU-RF.386(MOD) 7725 – 7925 MHz
7850 – 7900 MHz	FIXED MOBILE except Aeronautical Mobile	FIXED MOBILE except Aeronautical Mobile	Fixed links based on Recommendation ITU-R F.386. Defence systems.		FIXED MOBILE except Aeronautical Mobile	Radio Link, ITU-R F.386(MOD) 7725 – 7925 MHz
7900 - 8025 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.461	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.461	Fixed links based on Recommendation ITU-R F.386. Mobile satellite 7900 - 8025 MHz. Defence systems.	EU2 EU27 This is a harmonised military band for satellite operation. FIXED and MOBILE services not to be implemented above 7975 MHz in NATO countries.	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.461	Radio Link ITU-R F.386(MOD) 7725 – 7925 MHz ITU RR AR14/S9 no.S9.12

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8025 - 8175 MHz	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.462A S5.463	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.462A S5.463	Fixed links based on Recommendation ITU-R F.386 Mobile 8025 - 8200 MHz Defence systems Earth exploration satellite systems	EU2 EU27 This is a harmonised military band for satellite operation.	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.462A S5.463	
8175 - 8215 MHz	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) MOBILE S5.462A S5.463	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) MOBILE S5.462A S5.463	Fixed links based on Recommendation ITU-R F.386 Mobile 8025 - 8200 MHz Defence systems Earth exploration satellite systems	EU2 EU27 This is a harmonised military band for satellite operation.	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) MOBILE S5.462A S5.463	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8215 - 8400 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE EARTH EXPLORATION-SATELLITE (space-Earth) S5.462 S5.462A S5.463 S5.464	FIXED FIXED-SATELLITE (Earth-space) EARTH EXPLORATION-SATELLITE (space-Earth) S5.462 S5.462A S5.463 S5.464	Fixed links based on Recommendation ITU-R F.386 Defence systems Earth exploration satellite systems	EU2 EU27 Earth Exploration Satellite service will be considered in WRC-97. This is a harmonised military band for satellite operation.	FIXED FIXED-SATELLITE (Earth-space) EARTH EXPLORATION-SATELLITE (space-Earth) S5.462 S5.462A S5.463	Radio Link, ITU-R F.386 8200 – 8349/8360-8500 MHz
8400 - 8500 MHz	FIXED MOBILE except Aeronautical Mobile SPACE RESEARCH (space-Earth) S5.465 S5.466 S5.467	FIXED SPACE RESEARCH (space-Earth) S5.465, S5.466 Radiolocation	Fixed links based on Recommendation ITU-R F.386	RA VLBI observations.	FIXED SPACE RESEARCH (space-Earth) S5.465, Radiolocation	Radio Link, ITU-R F.386 8200 – 8349/8360-8500 MHz
8500 - 8550 MHz	RADIOLOCATION S5.468 S5.469	RADIOLOCATION S5.468 S5.469	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24	RADIOLOCATION	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8550 - 8650	RADIOLOCATION SPACE RESEARCH (active) EARTH EXPLORATION SATELLITE (active) S5.463A S5.468 S5.469	RADIOLOCATION SPACE RESEARCH (active) EARTH EXPLORATION SATELLITE (active) S5.463A S5.468 S5.469	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars. Space borne active sensors	EU2	RADIOLOCATION SPACE RESEARCH (active) EARTH EXPLORATION SATELLITE (active) S5.463A	
8650 - 8750	RADIOLOCATION S5.468 S5.469	RADIOLOCATION S5.468 S5.469	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2	RADIOLOCATION	
8750 - 8850 MHz	RADIOLOCATION AERONAUTICAL RADIONAVIGATION S5.470 S5.471	RADIOLOCATION AERONAUTICAL RADIONAVIGATION S5.470 Space Research S5.471	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24	RADIOLOCATION AERONAUTICAL RADIONAVIGATION S5.470 Space Research	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8850 - 9000 MHz	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 S5.473	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Space Research S5.473	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Space Research	
9000 - 9200 MHz	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.471	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation Space Research S5.471	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation Space Research	
9200 - 9300 MHz	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 S5.473 S5.474	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Space Research S5.473 S5.474	Motion sensors Civil and non civil aeronautical radionavigation systems e.g. airfield approach. Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Space Research S5.474	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
9300 - 9500 MHz	RADIONAVIGATION S5.476 Radiolocation S5.427 S5.474 S5.475	RADIONAVIGATION 825A Radiolocation Space Research S5.427 S5.474 S5.475	Motion sensors Civil and non civil aeronautical radionavigation systems e.g. airfield approach. Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24 ERC Recommendation CEPT/ERC/REC 70-03	RADIONAVIGATION 825A Radiolocation Space Research S5.427 S5.474 S5.475	
9500 - 9800 MHz	RADIOLOCATION RADIONAVIGATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH S5.476A	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH S5.476A	Motion sensors Civil and non civil aeronautical radionavigation systems e.g. airfield approach. Shipborne, land and airborne surveillance and weapon system radars. Space borne active sensors in bands 9500 - 9800 MHz	EU2 EU24 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH S5.476A	
9800 - 10000 MHz	RADIOLOCATION Fixed S5.477 S5.478 S5.479	RADIOLOCATION Space Research S5.477 S5.478 S5.479	Motion sensors Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION Space Research S5.479	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
10 - 10.15 GHz	FIXED MOBILE RADIOLOCATION Amateur S5.479	FIXED MOBILE RADIOLOCATION Amateur S5.479	Non civil radar ENG/OB is envisaged	EU2 EU17A	FIXED MOBILE RADIOLOCATION Amateur S5.479	ENG/OB 10 – 10.45 GHz Maritime Radiolocation systems, 10.0 – 10.2 GHz.
10.15 - 10.30 GHz		FIXED MOBILE RADIOLOCATION Amateur	ENG/OB is envisaged. Fixed includes point to multipoint. Wireless fixed access systems. Civil and non civil radar (low power) in certain sub bands	EU2 EU17A ERC Recommendation CEPT/ERC/REC 12-05	FIXED MOBILE RADIOLOCATION Amateur	Radio Access planned, 10.15 – 10.30/10.50 – 10.65 GHz Maritime Radiolocation systems, 10.0 – 10.2 GHz.
10.30 - 10.45 GHz		FIXED RADIOLOCATION Amateur Mobile	ENG/OB is envisaged Civil and non civil radar (low power) in certain sub bands	EU2 EU17 EU17A	FIXED RADIOLOCATION Amateur Mobile	
10.45 - 10.50 GHz	RADIOLOCATION Amateur Amateur-Satellite S5.481	FIXED RADIOLOCATION MOBILE Amateur Amateur-Satellite	Fixed includes point to multipoint. ENG/OB is envisaged Civil and non civil radar Motion sensors	EU2 EU17 EU23 EU17A ERC Recommendation CEPT/ERC/REC 70-03	AMATEUR AMATEUR-SATELLITE	Exclusive Amateur band

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
10.50 - 10.55 GHz	FIXED MOBILE Radiolocation	FIXED MOBILE Radiolocation	Fixed includes point to multipoint. Wireless fixed access systems. ENG/OB is envisaged Motion sensors	EU17A ERC Recommendations CEPT/ERC/REC 12-05 & CEPT/ERC/REC 70-03	FIXED MOBILE Radiolocation	Radio Access, planned 10,5 – 10,68 GHz ENG/OB 10,5 – 10,68 GHz SRD 10,50-10,68 GHz
10.55 - 10.60 GHz	FIXED MOBILE except Aeronautical Mobile Radiolocation	FIXED MOBILE except Aeronautical Mobile Radiolocation	Fixed includes point to multipoint ENG/OB is envisaged T/R 60-01: Motion sensors	EU17A ERC Recommendations CEPT/ERC/REC 12-05 & CEPT/ERC/REC 70-03	FIXED MOBILE except Aeronautical Mobile Radiolocation	Radio Access, planned, M-MP 10,5 – 10,68 GHz ENG/OB 10,5 – 10,68 GHz SRD 10,50-10,68 GHz
10.60 - 10.65 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation S5.149 S5.482	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) Radiolocation S5.149 S5.482	Fixed includes point to multipoint. Wireless fixed access systems. ENG/OB is envisaged Passive applications	EU17A ERC Recommendation CEPT/ERC/REC 12-05 RA Continuum measurements and VLBI. Surface emissivity and precipitation.	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) Radiolocation S5.149	Radio Access, planned, M-MP 10,5 – 10,68 GHz ENG/OB 10,5 – 10,68 GHz SRD 10,50-10,68 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
10.65 - 10.68 GHz		EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149 S5.482	Fixed includes point to multipoint ENG/OB is envisaged Passive applications	EU17A ERC Recommendation CEPT/ERC/REC 12-05 RA Continuum measurements and VLBI. Surface emissivity and precipitation.	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Radio Access, planned 10.5 – 10.68 GHz ENG/OB 10.5 – 10.68 GHz SRD 10,50-10,68 GHz
10.68 - 10.70 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.483	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.483	Passive applications	RA Continuum measurements and VLBI. Surface emissivity and precipitation.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	
10.70 - 11.70 GHz	FIXED S5.484 FIXED-SATELLITE (Earth-space) (space-Earth) S5.441 S5.441A MOBILE except Aeronautical Mobile	FIXED FIXED-SATELLITE (space-Earth) S5.441 Land Mobile-Satellite (space-Earth) Mobile except Aeronautical Mobile	Fixed links Euteltracs Fixed Satellite Plan 10.7 - 10.95 / 11.2 - 11.45 GHz in accordance with App. 30B	ERC Recommendation CEPT/ERC/REC 12-06	FIXED FIXED-SATELLITE (space-Earth) S5.441 Land Mobile-Satellite (space-Earth) Mobile except Aeronautical Mobile	Radio Link, ITU-R F.387 10.7 – 10.9 GHz 11.2 – 11.4 GHz FSS, ITU RR AP30B art.10 10.7 – 10.95 GHz 11.2 – 11.45 GHz VSAT downlink

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
11.70 - 12.50 GHz	FIXED BROADCASTING BROADCASTING-SATELLITE Mobile except Aeronautical Mobile S5.487 S5.487A S5.492 S5.441A	FIXED BROADCASTING-SATELLITE Mobile except Aeronautical Mobile S5.487 S5.487A S5.492	Satellite broadcasting in accordance with Appendix S30	Future use of this band for point to multipoint radio links for cable TV distribution depends on the replanning of RR Appendices S30 & S30A.	FIXED BROADCASTING-SATELLITE Mobile except Aeronautical Mobile S5.487 S5.487A S5.492	BSS, ITU RR AP30A 11.7 – 12.5 GHz
12.50 - 12.75 GHz	FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.494 S5.495 S5.496	FIXED-SATELLITE (space-Earth) S5.441A S5.495 S5.496	Fixed satellite applications	Priority for civil networks. Low density carriers, including VSATs and digital SNG are encouraged to use this band.	FIXED-SATELLITE (space-Earth) S5.441A S5.495	
12.75 - 13.25 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441 MOBILE Space Research (deep space)(space-Earth)	FIXED FIXED-SATELLITE (Earth-space) S5.441	Fixed links based on Recommendation ITU-R F.497 Telecommunications satellites from coordinated Earth stations. Priority for civil networks Fixed satellite Plan	ERC Recommendation CEPT/ERC/REC 12-02	FIXED FIXED-SATELLITE (Earth-space) S5.441	Radio Link, ITU-R F.497 12.75 – 13.25 GHz FSS, ITU RR AP30B art.10 12.75 – 13.25 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
13.25 - 13.40 GHz	AERONAUTICAL RADIONAVIGATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.497 S5.499 S5.498A	AERONAUTICAL RADIONAVIGATION S5.497 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.498A	Doppler Navigation aids Ship berthing radars Earth exploration observations	EU26	AERONAUTICAL RADIONAVIGATION S5.497 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.498A	
13.40 - 13.75 GHz	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH Standard Frequency and Time Signal-Satellite (Earth-space) S5.499 S5.500 S5.501 S5.501A S5.501B	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH S5.500 S5.501 S5.501A S5.501B	Doppler Navigation aids. Motion sensors in 13.4 - 14.0 GHz. Ship berthing radars. Military land, airborne and naval radars.	EU2 EU26 ERC Recommendation CEPT/ERC/REC 70-03	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH S5.501A S5.501B	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
13.75 - 14 GHz	FIXED-SATELLITE (Earth-space) S5.441A RADIOLOCATION Standard Frequency and Time Signal-Satellite (Earth-space) Space Research S5.499 S5.500 S5.501 S5.502 S5.503 S5.503A	RADIOLOCATION FIXED-SATELLITE (Earth-space) S5.441A Space Research S5.500 S5.501 S5.502 S5.503	Telecommunications satellites for fixed applications. Priority for civil networks. Motion sensors in 13.4 - 14.0 GHz. Ship berthing radar. Future VLBI observations. Military land, airborne and naval radars. Navigation radars.	EU2 EU26 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION FIXED-SATELLITE (Earth-space) S5.441A Space Research S5.502 S5.503	
14 - 14.25 GHz	FIXED-SATELLITE (Earth-space) S5.441A S5.506 RADIONAVIGATION S5.504 Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.505	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.504	Telecommunications satellites for fixed and mobile applications. Priority for civil networks. VSAT/SNG applications.	ERC Recommendation CEPT/ERC/REC 13-03 Low density carriers, including VSATs and digital SNG, are encouraged to use this band.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.504	FSS, VSAT/SNG uplink

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
14.25 - 14.30 GHz	FIXED-SATELLITE (Earth-space) S5.441A S5.506 RADIONAVIGATION S5.504 Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.505 S5.508 S5.509	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.504	Telecommunications satellites for fixed and mobile applications. Priority for civil networks. VSAT/SNG applications.	ERC Recommendation CEPT/ERC/REC 13-03 Fixed links to be coordinated with fixed satellite service on a national basis.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.504	FSS, VSAT/SNG uplink
14.30 - 14.40 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.506 MOBILE except Aeronautical Mobile Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Radionavigation-Satellite	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite	Telecommunications satellites for fixed and mobile applications. Priority for civil networks VSAT/SNG applications	ERC Recommendation CEPT/ERC/REC 13-03 Fixed links to be coordinated with fixed satellite service on a national basis.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite	FSS, VSAT/SNG uplink

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
14.40 - 14.47 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.506 MOBILE except Aeronautical Mobile Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research (space-Earth) S5.441A	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite	Telecommunications satellites for fixed and mobile applications. Priority for civil networks VSAT/SNG applications	ERC Recommendation CEPT/ERC/REC 13-03 Fixed links to be coordinated with fixed satellite service on a national basis.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite	FSS, VSAT/SNG uplink
14.47 - 14.50 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.506 MOBILE except Aeronautical Mobile Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Radio Astronomy S5.149	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Radio Astronomy S5.149	Telecommunications satellites for fixed and mobile applications. Priority for civil networks. VSAT/SNG applications.	ERC Recommendation CEPT/ERC/REC 13-03 Fixed links to be coordinated with fixed satellite service on a national basis. RA spectral line observations and future VLBI.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Radio Astronomy S5.149	FSS, VSAT/SNG uplink

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
14.50 - 14.80 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.510 MOBILE Space Research	FIXED MOBILE Radio Astronomy	Defence systems Civil and non-civil fixed links.	EU20 EU27 ERC Recommendation CEPT/ERC/REC 12-07 The band 14.62 - 15.23 GHz is a harmonised military band for fixed and mobile services. Future VLBI observations compatible with primary use.	FIXED MOBILE Radio Astronomy	Governmental users.
14.80 - 15.35 GHz	FIXED MOBILE Space Research S5.339	FIXED MOBILE Radio Astronomy S5.339	Defence systems Civil and non-civil fixed links based on Recommendation ITU-R F.636, to be reviewed.	EU20 EU27 ERC Recommendation CEPT/ERC/REC 12-07 The band 14.62 - 15.23 GHz is a harmonised military band for fixed and mobile services. Future VLBI observations compatible with primary use.	FIXED MOBILE Radio Astronomy S5.339	Governmental users.
15.35 - 15.40 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.511	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.511	Passive applications.	RA continuum measurements and future VLBI.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
15.40 - 15.43 GHz	AERONAUTICAL RADIONAVIGATION S5.511D	AERONAUTICAL RADIONAVIGATION S5.366 S5.367 S5.445 S5.511D	Doppler radar low power sensing. Ground movement radars.		AERONAUTICAL RADIONAVIGATION S5.366 S5.367 S5.511D	
15.43 – 15.63 GHz	FIXED-SATELLITE (space to Earth)(Earth to space) S5.511A AERONAUTICAL RADIONAVIGATION S5.511C S5.511D	FIXED-SATELLITE (space to Earth)(Earth to space) S5.511A AERONAUTICAL RADIONAVIGATION S5.511C S5.511D	Fixed satellite applications for MSS feeder links. Doppler radar low power sensing. Ground movement radars.		FIXED-SATELLITE (space to Earth)(Earth to space) S5.511A AERONAUTICAL RADIONAVIGATION S5.511C S5.511D	
15.63 – 15.7 GHz	AERONAUTICAL RADIONAVIGATION S5.511D	AERONAUTICAL RADIONAVIGATION S5.511D	Doppler radar low power sensing. Ground movement radars.		AERONAUTICAL RADIONAVIGATION S5.511D	
15.70 - 16.60 GHz	RADIOLOCATION S5.512 S5.513	RADIOLOCATION S5.512	Defence systems	EU27 This is a harmonised military band for land, airborne and naval radars.	RADIOLOCATION	Governmental users
16.60 - 17.10 GHz	RADIOLOCATION Space Research (deep space)(Earth-space) S5.512 S5.513	RADIOLOCATION Space Research (Earth-space) S5.512	Defence systems	EU27 This is a harmonised military band for land, airborne and naval radars.	RADIOLOCATION Space Research (Earth-space)	Governmental users

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
17.10 - 17.20 GHz	RADIOLOCATION S5.512 S5.513	RADIOLOCATION Mobile S5.512	Defence systems HIPERLAN	EU2 ERC Recommendation CEPT/ERC/REC 70-03. Military radar applications.	RADIOLOCATION Mobile	Radiolocation systems.
17.20 - 17.30 GHz	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.512 S5.513 S5.513A	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) MOBILE S5.512	Defence systems. Missile systems radars. Airborne terrain following radars. HIPERLAN	EU2 Military radar applications Recommendation CEPT/ERC/REC 70-03. Mobile allocation for HIPERLANs which have priority over space services. HIPERLANs cannot claim protection from radiolocation service.	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) MOBILE	Radiolocation systems
17.30 - 17.70 GHz	FIXED-SATELLITE (Earth-space) S5.516 Radiolocation S5.514	FIXED-SATELLITE (Earth-space) S5.516 FIXED Radiolocation S5.514	Point to multipoint systems. Appendix S30A of Radio Regulations. Feeder link plan for 11.7 - 12.5 GHz	EU2 Missile systems radars.	FIXED-SATELLITE (Earth-space) S5.516 FIXED Radiolocation	BSS, Feeder Links ITU RR AP30A art.9A

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
17.70 - 18.10 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.516 MOBILE	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.516	Fixed links Telecommunications satellites to coordinated Earth stations. Priority for civil networks Feeder link plan 17.7 - 18.1 GHz	ERC Recommendation CEPT/ERC/REC 12-03	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.516	Radio Link, ITU-R F.595. 17.7 – 19.7 GHz BSS, Feeder Links ITU RR AP30A art.9A
18.10 - 18.30 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.520 MOBILE S5.519 S5.521	FIXED FIXED-SATELLITE (space-Earth) S5.441A S5.520 METEOROLOGICAL-SATELLITE (space-Earth) S5.519 S5.521	Fixed links Telecommunications satellites to coordinated Earth stations. Priority for civil networks. Feeder link band 18.1 - 18.4 GHz for BSS (WARC 92).	ERC Recommendation CEPT/ERC/REC 12-03	FIXED FIXED-SATELLITE (space-Earth) S5.441A S5.520 METEOROLOGICAL-SATELLITE (space-Earth) S5.519 S5.521	Radio Link, ITU-R F.595. 17.7 – 19.7 GHz BSS, Feeder Links ITU RR AP30A art.9A
18.30 - 18.40 GHz		FIXED FIXED-SATELLITE (space-Earth) S5.520 S5.521	Fixed links. Telecommunications satellites to coordinated Earth stations. Priority for civil networks. Feeder link band 18.1 - 18.4 GHz for BSS (WARC 92).	ERC Recommendation CEPT/ERC/REC 12-03.	FIXED FIXED-SATELLITE (space-Earth) S5.520 S5.521	Radio Link, ITU-R F.595. 17.7 – 19.7 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
18.40 - 18.60 GHz	FIXED FIXED-SATELLITE (space-Earth) S5.441A MOBILE	FIXED FIXED-SATELLITE (space-Earth) S5.441A	Fixed links Telecommunications satellites to coordinated Earth stations. Priority for civil networks.	ERC Recommendation CEPT/ERC/REC 12-03	FIXED FIXED-SATELLITE (space-Earth) S5.441A	Radio Link, ITU-R F.595. 17.7 – 19.7 GHz
18.60 - 18.80 GHz	FIXED FIXED-SATELLITE (space-Earth) S5.523 MOBILE except Aeronautical Mobile Earth Exploration-Satellite (passive) Space Research (passive) S5.522	FIXED FIXED-SATELLITE (space-Earth) S5.523 Earth Exploration-Satellite (passive) S5.522	Fixed links. Telecommunications satellites to coordinated Earth stations. Priority for civil networks.	ERC Recommendation CEPT/ERC/REC 12-03 Earth Exploration Satellite is included, but is subject to further studies in ITU-R. EESS surface emissivity, snow, sea ice and precipitation.	FIXED FIXED-SATELLITE (space-Earth) S5.523 Earth Exploration-Satellite (passive) S5.522	Radio Link, ITU-R F.595. 17.7 – 19.7 GHz
18.80 - 19.30 GHz	FIXED FIXED-SATELLITE (space-Earth) S5.523A MOBILE	FIXED FIXED-SATELLITE (space-Earth)	Fixed links Telecommunications satellites to coordinated Earth stations. Priority for civil networks.	ERC Recommendation CEPT/ERC/REC 12-03	FIXED FIXED-SATELLITE (space-Earth)	Radio Link, ITU-R F.595. 17.7 – 19.7 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
19.30 - 19.70 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.523B S5.523C S5.523D S5.523E MOBILE	FIXED FIXED-SATELLITE (space-Earth) S5.523B S5.523C S5.523D S5.523E			FIXED FIXED-SATELLITE (space-Earth) S5.523B S5.523C S5.523D S5.523E	Radio Link, ITU-R F.595. 17.7 – 19.7 GHz
19.70 - 20.10 GHz	FIXED-SATELLITE (space-Earth) S5.441A Mobile-Satellite (space-Earth) S5.524	FIXED-SATELLITE (space-Earth) S5.441A Mobile-Satellite (space-Earth)	Fixed and mobile satellites to uncoordinated Earth stations		FIXED-SATELLITE (space-Earth) S5.441A Mobile-Satellite (space-Earth)	
20.10 - 20.20 GHz	FIXED-SATELLITE (space-Earth) S5.441A MOBILE-SATELLITE (space-Earth) S5.524 S5.525 S5.526 S5.527 S5.528	FIXED-SATELLITE (space-Earth) S5.441A MOBILE-SATELLITE (space-Earth) S5.525 S5.526 S5.527 S5.528	Fixed and mobile satellites to uncoordinated Earth stations.		FIXED-SATELLITE (space-Earth) S5.441A MOBILE-SATELLITE (space-Earth) S5.525 S5.526 S5.527 S5.528	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
20.20 - 21.20 GHz	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) Standard Frequency and Time Signal-Satellite (space-Earth) S5.524	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth)	Fixed and mobile satellites to uncoordinated Earth stations.	EU2 EU27 The band 20.2 - 21.2 GHz is a harmonised military band for satellite downlinks.	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth)	Governmental users.
21.20 - 21.40 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	Unidirectional, temporary fixed or mobile links, including ENG/OB.	Passive systems will be phased out by 2015.	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	
21.40 - 22 GHz	FIXED MOBILE BROADCASTING-SATELLITE S5.530	BROADCASTING-SATELLITE S5.530	Wide band high definition television.	Fixed service envisaged in some countries.	BROADCASTING-SATELLITE S5.530	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
22 - 22.21 GHz	FIXED MOBILE except Aeronautical Mobile S5.149	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Fixed links Passive applications. ENG/OB is envisaged.	EU17A ERC Recommendation T/R 13-02 RA spectral line observations (water line and redshifted water line under 22.5 GHz)	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Radio Link, T/R-13-02 Annex A 22.0 – 22.6/23.0 – 23.6 GHz
22.21 - 22.50 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149 S5.532	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Earth Exploration-Satellite (passive) S5.149 S5.532	Fixed links RA applications. ENG/OB is envisaged.	EU17A ERC Recommendation T/R 13-02 Passive systems will be phased out by 2015. RA spectral line observations (water line and redshifted water line under 22.5 GHz) also VLBI.	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Earth Exploration-Satellite (passive) S5.149 S5.532	Radio Link, T/R-13-02 Annex A 22.0 – 22.6/23.0 – 23.6 GHz
22.50 - 22.55 GHz	FIXED MOBILE	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive)	Fixed links RA applications ENG/OB is envisaged.	EU17A ERC Recommendation T/R 13-02	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive)	Radio Link, T/R-13-02 Annex A 22.0 – 22.6/23.0 – 23.6 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
22.55 - 22.60 GHz	FIXED INTER-SATELLITE MOBILE S5.149	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Fixed links RA applications ENG/OB is envisaged.	EU17A ERC Recommendation T/R 13-02	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Radio Link, T/R-13-02 Annex A 22.0 – 22.6/23.0 – 23.6 GHz
22.60 - 23 GHz		FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	ENG/OB is envisaged. RA applications. Methyl Formate and Ammonia lines 22.81 - 22.86 GHz.	EU17A RA spectral line observations (Methyl Formate and Ammonia lines 22.81 - 22.86 GHz).	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	
23 - 23.55 GHz	FIXED INTER-SATELLITE MOBILE S5.149	FIXED INTER-SATELLITE MOBILE S5.149	Fixed links ENG/OB is envisaged	ERC Recommendation T/R 13-02. RA spectral line observations.	FIXED INTER-SATELLITE MOBILE S5.149	Radio Link, T/R-13-02 Annex A 23.0 – 23.6/22.0 – 22.6 GHz
23.55 - 23.60 GHz	FIXED MOBILE	FIXED INTER-SATELLITE MOBILE	Fixed links. ENG/OB is envisaged.	ERC Recommendation T/R 13-02.	FIXED INTER-SATELLITE MOBILE	Radio Link, T/R-13-02 Annex A 23.0 – 23.6/22.0 – 22.6 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
23.60 - 24 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	Passive applications.	Continuum observations. Ammonia line. Water vapour measurements.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	
24 - 24.05 GHz	AMATEUR AMATEUR-SATELLITE S5.150	AMATEUR AMATEUR-SATELLITE S5.150	ISM 24 - 24.25 GHz SRD ENG/OB is envisaged.	ERC Recommendation CEPT/ERC/REC 70-03	AMATEUR AMATEUR-SATELLITE S5.150	ISM(24.00 – 24.25 GHz), secondary services.
24.05 - 24.25 GHz	RADIOLOCATION Amateur Earth Exploration-Satellite (active) S5.150	RADIOLOCATION Amateur Earth Exploration-Satellite (active) Fixed S5.150	Defence radars. Rain radar from satellites. ISM 24.05 - 24.25 GHz SRD Motion sensors. ENG/OB is envisaged.	EU2 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION Amateur Earth Exploration-Satellite (active) Fixed S5.150	ISM(24.00 – 24.25 GHz), secondary services.
24.25 - 24.45 GHz	FIXED	FIXED MOBILE	Unidirectional, temporary fixed links. ENG/OB	EU17A	FIXED MOBILE	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
24.45 - 24.50 GHz	FIXED INTER-SATELLITE	FIXED MOBILE	Unidirectional, temporary fixed links. ENG/OB	EU17A	FIXED MOBILE	Radio Link,T/R13-02 Annex B 24.5 – 25.45/25.56 – 26.5 GHz
24.50 - 24.65 GHz		FIXED	Fixed links	ERC Recommendation T/R 13-02	FIXED	Radio Link,T/R13-02 Annex B 24.5 – 25.45/25.56 – 26.5 GHz
24.65 - 24.75 GHz	FIXED INTER-SATELLITE	FIXED	Fixed links	ERC Recommendation T/R 13-02	FIXED	Radio Link,T/R13-02 Annex B 24.5 – 25.45/25.56 – 26.5 GHz
24.75 - 25.25 GHz	FIXED	FIXED	Fixed links	ERC Recommendation T/R 13-02	FIXED	Radio Link,T/R13-02 Annex B 24.5 – 25.45/25.56 – 26.5 GHz
25.25 – 25.50 GHz	FIXED INTER-SATELLITE S5.536 MOBILE Standard Frequency and Time Signal-Satellite(Earth-space)	FIXED MOBILE INTER SATELLITE S5.536	Fixed links	ERC Recommendation T/R 13-02	FIXED MOBILE INTER SATELLITE S5.536	Radio Link,T/R13-02 Annex B 24.5 – 25.45/25.56 – 26.5 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
25.50 - 26.50 GHz	EARTH EXPLORATION-SATELLITE (space-Earth) S5.536A S5.536B FIXED INTER-SATELLITE S5.536 MOBILE Standard Frequency and Time Signal-Satellite (Earth-space)	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-Earth) S5.536A S5.536B	: Fixed links	ERC Recommendation T/R 13-02	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-Earth) S5.536A S5.536B	Radio Link,T/R13-02 Annex B 25.56 – 26.5/24.5 – 25.45 GHz
26.50 - 27 GHz		FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-space) S5.536A S5.536B	Defence systems	EU27 This is a harmonised military band for fixed and mobile systems.	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-space) S5.536A S5.536B	Governmental users.
27 - 27.50 GHz	FIXED INTER-SATELLITE MOBILE S5.536	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-space)	Defence systems	EU27 This is a harmonised military band for fixed and mobile systems.	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-space)	Governmental users.

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
27.50 - 28.50 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.539 MOBILE S5.538 S5.540	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.539 S5.538 S5.540	Fixed links. Fixed Satellite Service (space to Earth) use limited to beacons for uplink power control 27.5 - 27.501 GHz. Feeder links to broadcasting satellites (HDTV) 27.5 - 29.5 GHz. Telecommunications satellites from coordinated Earth stations. Priority for civil networks.	ERC Recommendation T/R 13-02	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.539 S5.538 S5.540	Radio Link, T/R13-02 Annex C 27.5 – 28.44/28.56 – 29.5 GHz
28.50 - 29.10 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.523A S5.539 MOBILE Earth Exploration-Satellite (Earth-space) S5.541 S5.540	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.539 Earth Exploration-Satellite (Earth-space) S5.541 S5.540	Fixed links. Feeder links to broadcasting satellites (HDTV) 27.5 - 29.5 GHz. Telecommunications satellites from coordinated Earth stations. Priority for civil networks	ERC Recommendation T/R 13-02	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.539 Earth Exploration-Satellite (Earth-space) S5.541 S5.540	Radio Link, T/R13-02 Annex C 28.56 – 29.5/27.5 – 28.44 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
29.1 – 29.50 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.523C S5.535A S5.539 S5.541A S5.523E MOBILE Earth Exploration-Satellite (Earth-space) S5.541 S5.540	FIXED FIXED-SATELLITE (Earth-space) S5.523C S5.535A S5.539 S5.541A S5.523E Earth Exploration-Satellite (Earth-space) S5.541 S5.540			FIXED FIXED-SATELLITE (Earth-space) S5.523C S5.535A S5.539 S5.541A S5.523E Earth Exploration-Satellite (Earth-space) S5.541 S5.540	Radio Link, T/R13-02 Annex C 28.56 – 29.5/27.5 – 28.44 GHz
29.50 - 29.90 GHz	FIXED-SATELLITE (Earth-space) S5.441A S5.539 Earth Exploration-Satellite (Earth-space) S5.541 Mobile-Satellite (Earth-space) S5.441A S5.540 S5.542	FIXED-SATELLITE (Earth-space) S5.441A S5.539 Earth Exploration-Satellite (Earth-space) S5.541 Mobile-Satellite (Earth-space) S5.441A S5.540	Fixed and mobile satellites from uncoordinated Earth stations.		FIXED-SATELLITE (Earth-space) S5.441A S5.539 Earth Exploration-Satellite (Earth-space) S5.541 Mobile-Satellite (Earth-space) S5.441A S5.540	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
29.90 - 30 GHz	FIXED-SATELLITE (Earth-space) S5.539 MOBILE-SATELLITE (Earth-space) Earth Exploration-Satellite (Earth-space) S5.541 S5.441A S5.525 S5.526 S5.527 S5.538 S5.540 S5.542 S5.543	FIXED-SATELLITE (Earth-space) (space-Earth) S5.539 MOBILE-SATELLITE (Earth-space) Earth Exploration-Satellite (Earth-space) S5.541 S5.441A S5.540 S5.525 S5.526 S5.527 S5.538 S5.543	Fixed and mobile satellites from uncoordinated Earth stations. FSS Space to Earth use limited to beacons for uplink power control 29.999 - 30 GHz.		FIXED-SATELLITE (Earth-space) (space-Earth) S5.539 MOBILE-SATELLITE (Earth-space) Earth Exploration-Satellite (Earth-space) S5.541 S5.441A S5.540 S5.525 S5.526 S5.527 S5.538 S5.543	
30 - 31 GHz	FIXED-SATELLITE (Earth-space) MOBILE-SATELLITE (Earth-space) Standard Frequency and Time Signal-Satellite (space-Earth) S5.542	FIXED-SATELLITE (Earth-space) (space-Earth) MOBILE-SATELLITE (Earth-space)	Fixed and mobile satellites from uncoordinated Earth stations.	This is a harmonised military band for satellite uplinks.	FIXED-SATELLITE (Earth-space) (space-Earth) MOBILE-SATELLITE (Earth-space)	Governmental users.

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
31 - 31.30 GHz	FIXED MOBILE Standard Frequency and Time Signal-Satellite (space-Earth) Space Research S5.544 S5.149 S5.545	FIXED MOBILE S5.149	Fixed links	Fixed includes point to multipoint. RA continuum measurements.	FIXED MOBILE Standard Frequency and Time Signal-Satellite (space-Earth) Space Research S5.544 S5.149	
31.30 - 31.50 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	Passive applications. Surface temperature and emissivity, atmospheric attenuation.	RA continuum measurements.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
31.50 - 31.80 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except Aeronautical Mobile S5.149 S5.546	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except Aeronautical Mobile S5.149 S5.546	Passive applications. Surface temperature and emissivity, atmospheric attenuation.	Fixed includes point to multipoint. RA continuum measurements	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except Aeronautical Mobile S5.149	
31.80 - 32 GHz	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (deep space)(space-Earth) S5.547 S5.547B S5.548	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (space-Earth) S5.547 S5.548	High density fixed links	FIXED to be reviewed at WRC-99. Space research (deep space) in some countries	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (space-Earth) S5.547 S5.548	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
32 - 32.30 GHz	INTER-SATELLITE FIXED S5.547A RADIONAVIGATION SPACE RESEARCH (deep space)(space-Earth) S5.547 S5.547C S5.548	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (space-Earth) INTER-SATELLITE S5.547 S5.548	High density fixed links	FIXED to be reviewed at WRC-99. Space research (deep space) in some countries	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (space-Earth) INTER-SATELLITE S5.547 S5.548	
32.30 - 33 GHz	INTER-SATELLITE FIXED S5.547A RADIONAVIGATION S5.547 S5.547D S5.548	INTER-SATELLITE FIXED S5.547A RADIONAVIGATION S5.547 S5.548	High density fixed links	FIXED to be reviewed at WRC-99.	INTER-SATELLITE FIXED S5.547A RADIONAVIGATION S5.547 S5.548	
33 - 33.40 GHz	RADIONAVIGATION FIXED S5.547A S5.547 S5.547E	RADIONAVIGATION FIXED S5.547A INTER-SATELLITE S5.547	High density fixed links	FIXED to be reviewed at WRC-99.	RADIONAVIGATION FIXED S5.547A INTER-SATELLITE S5.547	
33.40 - 34.20 GHz	RADIOLOCATION S5.549	RADIOLOCATION S5.549	Motion sensors. Short range radar. Surveying and measurement. Defence systems.	EU2 EU27 This is a harmonised military band for radiolocation systems.	RADIOLOCATION S5.549	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
34.20 - 34.70 GHz	RADIOLOCATION SPACE RESEARCH (deep space)(Earth-space) S5.549	RADIOLOCATION SPACE RESEARCH (Earth-space) S5.549	Motion sensors. Short range radar. Surveying and measurement. Defence systems.	EU2 EU27 This is a harmonised military band for radiolocation systems.	RADIOLOCATION SPACE RESEARCH (Earth-space)	
34.70 - 35.20 GHz	RADIOLOCATION Space Research S5.550 S5.549	RADIOLOCATION Space Research S5.550 S5.549	Surveying and measurement. Short range radar. Motion sensors. Defence systems.	EU2 EU27 This is a harmonised military band for radiolocation systems.	RADIOLOCATION Space Research	
35.20 – 35.5GHz	METEOROLOGICAL AIDS RADIOLOCATION S5.549	METEOROLOGICAL AIDS RADIOLOCATION S5.549	Short range radar. Defence systems.	EU2 EU27 This is a harmonised military band for radiolocation systems.	METEOROLOGICAL AIDS RADIOLOCATION	
35.5 –36 GHz	EARTH EXPLORATION-SATELLITE (active) METEOROLOGICAL AIDS RADIOLOCATION SPACE RESEARCH (active) S5.549 S5.551A	EARTH EXPLORATION-SATELLITE (active) METEOROLOGICAL AIDS RADIOLOCATION SPACE RESEARCH (active) S5.549 S5.551A	Satellite rain radars Defence systems	EU2 EU27 This is a harmonised military band for radiolocation systems.	EARTH EXPLORATION-SATELLITE (active) METEOROLOGICAL AIDS RADIOLOCATION SPACE RESEARCH (active) S5.551A	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
36 - 37 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.149	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio Astronomy S5.149	Snow, ice and precipitation measurements. Future non civil fixed and mobile systems. Defence systems.	EU27 This is a harmonised military band for fixed and mobile systems. Hydrogen cyanide and Hydroxil lines 36.43 - 36.5 GHz.	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio Astronomy S5.149	
37 - 37.50 GHz	FIXED MOBILE SPACE RESEARCH (space-Earth)	FIXED SPACE RESEARCH (space-Earth)	Low and medium capacity fixed links for civil and non civil applications. Sub bands 37 - 37.142 GHz paired with 38.26 - 38.402 GHz for unplanned, uncoordinated use, subject to national decisions.	EU2 ERC Recommendation T/R 12-01	FIXED SPACE RESEARCH (space-Earth)	Radio Link,T/R12-01 37 – 38.17/38.31 – 39.5 GHz
37.50 - 38 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE SPACE RESEARCH (space-Earth) Earth Exploration-Satellite (space-Earth)	FIXED FIXED-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Earth Exploration-Satellite (space-Earth)	Low and medium capacity fixed links for civil and non civil applications. Telecommunications satellites for fixed applications. Priority for civil networks.	EU2 ERC Recommendation T/R 12-01.	FIXED FIXED-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Earth Exploration-Satellite (space-Earth)	Radio Link,T/R12-01 37 – 38.17/38.31 – 39.5 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
38 - 39.50 GHz	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Earth Exploration-Satellite (space-to-Earth)	FIXED FIXED-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)	Low and medium capacity fixed links for civil and non civil applications. Sub bands 37 - 37.142 GHz paired with 38.26 - 38.402 GHz for unplanned, uncoordinated use, subject to national decisions. Telecommunications satellites for fixed applications. Priority for civil networks.	EU2 ERC Recommendation T/R 12-01.	FIXED FIXED-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)	Radio Link,T/R12-01 37 – 38.17/38.31 – 39.5 GHz
39.50 - 40 GHz	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)	Possible band for broadband mobile systems. Shared civil and non civil allocation for future satellite and terrestrial systems.	EU2	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
40 - 40.50 GHz	EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth Exploration-Satellite (space-to-Earth)	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE ((space-to-Earth) SPACE RESEARCH (Earth-space) Earth Exploration-Satellite (space-to-Earth)	Possible band for broadband mobile systems. Shared civil and non civil allocation for future satellite and terrestrial systems.	EU2	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE ((space-to-Earth) SPACE RESEARCH (Earth-space) Earth Exploration-Satellite (space-to-Earth)	
40.50 - 42.50 GHz	BROADCASTING BROADCASTING-SATELLITE FIXED Mobile S5.551B S5.551D	BROADCASTING BROADCASTING-SATELLITE FIXED S5.551B	Multipoint video distribution systems	ERC Decision ERC/DEC/(96)05 ERC Recommendation T/R 52-01	BROADCASTING BROADCASTING-SATELLITE FIXED S5.551B	MVDS=Multiple Video Distribution Systems. Test operation ongoing

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
42.50 - 43.50 GHz	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	Future civil fixed and mobile systems. Possible band for broadband mobile system. RA applications. Telecommunications satellites for fixed applications. Priority for civil networks.	Silicon monoxide lines and many other spectral lines in this band.	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	
43.50 - 45.50 GHz	MOBILE S5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.554	MOBILE S5.553 MOBILE-SATELLITE Fixed-Satellite S5.554	Defence systems	EU27 This is a harmonised military band for satellite uplinks and mobile systems. Radionavigation envisaged in some countries.	MOBILE S5.553 MOBILE-SATELLITE Fixed-Satellite S5.554	
45.50 - 47 GHz		MOBILE S5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.554			MOBILE S5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.554	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
47 - 47.20 GHz	AMATEUR AMATEUR-SATELLITE	AMATEUR AMATEUR-SATELLITE			AMATEUR AMATEUR-SATELLITE	
47.20 - 48.50 GHz	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE S5.149 S5.340 S5.552A S5.555	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE Amateur S5.552A S5.555	Telecommunications satellites for fixed applications. Priority for civil networks. Feeder links for 40 GHz broadcasting satellites. ENG/OB is envisaged.	High altitude platform stations in the bands 47.2-47.5 GHz and 47.9-48.2 GHz.	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE Amateur S5.552A S5.555	
48.50 - 50.20 GHz		FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE RADIO ASTRONOMY S5.340 S5.555 S5.149	Low and medium capacity fixed links. Telecommunications satellites for fixed applications. Priority for civil networks. Feeder links for broadcasting satellites 48.5 - 49.2 GHz. RA applications. ENG/OB is envisaged.	EU17A Carbon monosulphide line 48.94 - 49.04 GHz.	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE RADIO ASTRONOMY S5.340 S5.555 S5.149	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
50.20 - 50.40 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 S5.555A	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340	Passive applications		EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340	
50.40 - 51.40 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Mobile-Satellite (Earth-to-space)	FIXED FIXED-SATELLITE (Earth-to-space) Mobile-Satellite (Earth-to-space)	Shared civil and non civil allocation for future satellite and terrestrial systems.	EU2	FIXED FIXED-SATELLITE (Earth-to-space) Mobile-Satellite (Earth-to-space)	
51.40 - 52.6GHz	FIXED MOBILE S5.556 S5.547	FIXED MOBILE RADIO ASTRONOMY S5.556 S5.547	High density fixed links.		FIXED MOBILE RADIO ASTRONOMY S5.556 S5.547	
52.6 – 54.25 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 S5.556	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 S5.556	Passive applications.	Atmospheric temperature sounding	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 S5.556	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
54.25 - 55.78 GHz	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE S5.556A SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	Passive applications.	Atmospheric temperature sounding.	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	Radio Link planned. 55.20 – 58.20 GHz
55.78 - 56.9 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.547	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A SPACE RESEARCH (passive) S5.547 S5.558	Passive applications. Low and medium capacity fixed links (1.47 GHz forward/ return separation): intended for support infrastructure for large scale mobile networks.	EU21 ERC Recommendation T/R 22-03. Atmospheric temperature sounding.	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A SPACE RESEARCH (passive) S5.547 S5.558	Radio Link planned. 55.20 – 58.20 GHz
56.9 - 57.0 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.547 S5.557	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE S5.558 SPACE RESEARCH (passive) S5.547	Passive applications. Low power short range fixed and mobile systems (frequency planning not required).	EU21 ERC Recommendation T/R 22-03. Atmospheric temperature sounding.	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE S5.558 SPACE RESEARCH (passive) S5.547	Radio Link planned. 55.20 – 58.20 GHz

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
57 – 58.2 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.557 S5.547	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.547	Passive applications	Atmospheric temperature sounding	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.547	Radio Link planned. 55.20 – 58.20 GHz
58.20 - 59 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.556 S5.547	EARTH EXPLORATION-SATELLITE (passive) FIXED RADIO ASTRONOMY SPACE RESEARCH (passive) S5.547	Passive applications. High density fixed links.	EU6 EU19 Atmospheric temperature sounding.	EARTH EXPLORATION-SATELLITE (passive) FIXED RADIO ASTRONOMY SPACE RESEARCH (passive) S5.547	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
59 – 59.3 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 RADIOLOCATION S5.559	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 RADIOLOCATION S5.559	Passive applications. Defence systems.	EU2 EU27 Atmospheric temperature sounding. The band 59-61 GHz is a harmonised military band for fixed, mobile and radiolocation systems.	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 RADIOLOCATION S5.559	
59.3 - 62 GHz	FIXED INTER-SATELLITE MOBILE S5.558 RADIOLOCATION S5.559 S5.138	FIXED INTER-SATELLITE RADIOLOCATION S5.558	Defence systems. Cordless local area networks. ISM 61 - 61.5 GHz. SRD Low and medium capacity fixed links (1.47 GHz forward/return separation based on plan for 54.25 - 57.2 GHz).	EU2 EU27 ERC Recommendations CEPT/ERC/REC 70-03 & T/R 22-03. The band 59-61 GHz is a harmonised military band for fixed, mobile and radiolocation systems.	FIXED INTER-SATELLITE RADIOLOCATION S5.558	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
62 - 63 GHz		INTER-SATELLITE MOBILE RADIOLOCATION S5.558	Short range non civil radiolocation. Broadband mobile systems for connection to IBCN paired with 65 - 66 GHz.	EU2 ERC Recommendation T/R 22-03	INTER-SATELLITE MOBILE RADIOLOCATION S5.558	
63 - 64 GHz		INTER-SATELLITE MOBILE RADIOLOCATION S5.558	Short range non civil radiolocation. Road transport and traffic telematics (RTTT vehicle to road/vehicle to vehicle).	Decision ERC/DEC/(92)02 ERC Recommendations CEPT/ERC/REC 70-03 & T/R 22-03.	INTER-SATELLITE MOBILE RADIOLOCATION S5.558	
64 - 65 GHz	FIXED INTER-SATELLITE MOBILE except aeronautical mobile S5.556 S5.547	FIXED INTER-SATELLITE MOBILE except aeronautical mobile S5.556 S5.547	High density fixed links.		FIXED INTER-SATELLITE MOBILE except aeronautical mobile S5.556 S5.547	
65 - 66 GHz	EARTH EXPLORATION-SATELLITE SPACE RESEARCH INTER-SATELLITE MOBILE except aeronautical mobile FIXED S5.547	EARTH EXPLORATION-SATELLITE SPACE RESEARCH INTER-SATELLITE FIXED MOBILE except aeronautical mobile S5.547	High density fixed links. Broadband mobile systems for connection to IBCN paired with 62 - 63 GHz.	ERC Recommendation T/R 22-03	EARTH EXPLORATION-SATELLITE SPACE RESEARCH INTER-SATELLITE FIXED MOBILE except aeronautical mobile S5.547	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
66 - 71 GHz	MOBILE S5.553 S5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE INTER-SATELLITE S5.554	MOBILE S5.553 S5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE INTER-SATELLITE S5.554	Future civil systems.		MOBILE S5.553 S5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE INTER-SATELLITE S5.554	
71 - 74 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) S5.149 S5.556	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY S5.556	Defence systems. RA applications	EU27 This is a harmonised military band. Pairing of this band with 81 - 84 GHz is envisaged in military systems. RA: Formaldehyde line 72.77 - 72.91 GHz.	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY S5.556	
74 - 75.50 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Space Research (space-to-Earth)	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Space Research (space-to-Earth)	Future civil systems.		FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Space Research (space-to-Earth)	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
75.50 - 76 GHz	AMATEUR AMATEUR-SATELLITE Space Research (space-to-Earth)	AMATEUR AMATEUR-SATELLITE Space Research (space-to-Earth)			AMATEUR AMATEUR-SATELLITE Space Research (space-to-Earth)	
76 - 78 GHz	RADIOLOCATION Amateur Amateur-Satellite Space Research (space-to-Earth) S5.560	RADIOLOCATION Amateur Amateur-Satellite Space Research (space-to-Earth)	Civil radiolocation. 76 - 77 GHz RTTT (Radar).	EU2 Decision ERC/DEC/(92)02 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION Amateur Amateur-Satellite Space Research (space-to-Earth)	
78 - 81 GHz		RADIOLOCATION Amateur Amateur-Satellite Earth Exploration-Satellite (active) Space Research (space-Earth) S5.560	Civil and non civil radiolocation.	EU2	RADIOLOCATION Amateur Amateur-Satellite Earth Exploration-Satellite (active) Space Research (space-Earth) S5.560	
81 - 84 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth) Space Research (space-Earth)	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth) Space Research (space-Earth)	Defence systems.	EU27 This is a harmonised military band. Pairing of this band with 71 - 74 GHz is envisaged in military systems.	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth) Space Research (space-Earth)	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
84 - 86 GHz	FIXED MOBILE BROADCASTING BROADCASTING-SATELLITE S5.561	FIXED MOBILE BROADCASTING BROADCASTING-SATELLITE S5.561			FIXED MOBILE BROADCASTING BROADCASTING-SATELLITE S5.561	
86 - 92 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	Passive applications.	RA: Continuum and spectral line measurements.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	
92 - 94 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION S5.149 S5.556	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION Radio Astronomy S5.149 S5.556	Short range radar.	EU2 Diazenylium line and numerous other spectral lines.	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION Radio Astronomy S5.149 S5.556	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
94 – 94.1 GHz	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.562	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.562	Short range radar. Cloud profiler radar.	EU2	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.562	
94.1 –95 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION S5.556	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION S5.556	Short range radar.	EU2	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION S5.556	
95 - 100 GHz	MOBILE S5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE Radiolocation S5.149 S5.554 S5.555	MOBILE S5.553 MOBILE-SATELLITE RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE Radiolocation S5.149 S5.554 S5.555	RA applications.	EU2 Multiple line Observations. Continuum observations.	MOBILE S5.553 MOBILE-SATELLITE RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE Radiolocation S5.149 S5.554 S5.555	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
100 - 102 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.341	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.341			EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.341	
102 - 105 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.341	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.341			FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.341	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
105 – 116 GHz	EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive) S5.340 S5.341				EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive) S5.340 S5.341	
116 – 119.98 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) S5.138 S5.341				EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) S5.138 S5.341	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
119.98 – 120.02 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) Amateur S5.138 S5.341				EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) Amateur S5.138 S5.341	
120.02 - 126 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) S5.138 S5.341				EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) S5.138 S5.341	
126 –134 GHz	FIXED INTER-SATELLITE MOBILE S5.558 RADIOLOCATION S5.559				FIXED INTER-SATELLITE MOBILE S5.558 RADIOLOCATION S5.559	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
134 – 142 GHz	MOBILE S5.553 MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE Radiolocation S5.149 S5.340 S5.554 S5.555				MOBILE S5.553 MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE Radiolocation S5.149 S5.340 S5.554 S5.555	
142 –144 GHz	AMATEUR AMATEUR-SATELLITE				AMATEUR AMATEUR-SATELLITE	
144 – 149 GHz	RADIOLOCATION Amateur Amateur-Satellite S5.149 S5.555				RADIOLOCATION Amateur Amateur-Satellite S5.149 S5.555	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
149 – 150 GHz	FIXED FIXED-SATELLITE(space-to-Earth) MOBILE				FIXED FIXED-SATELLITE(space-to-Earth) MOBILE	
150 – 151 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE(space-to-Earth) MOBILE SPACE RESEARCH(passive) S5.149 S5.385				EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE(space-to-Earth) MOBILE SPACE RESEARCH(passive) S5.149 S5.385	
151 – 156 GHz	FIXED FIXED-SATELLITE(space-to-Earth) MOBILE				FIXED FIXED-SATELLITE(space-to-Earth) MOBILE	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
156 – 158 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE(space-to-Earth) MOBILE				EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE(space-to-Earth) MOBILE	
158 – 164 GHz	FIXED FIXED-SATELLITE(space-to-Earth) MOBILE				FIXED FIXED-SATELLITE(space-to-Earth) MOBILE	
164 – 168 GHz	EARTH EXPLORATION-SATELLITE(space-to-Earth) RADIO ASTRONOMY SPACE RESEARCH (passive)				EARTH EXPLORATION-SATELLITE(space-to-Earth) RADIO ASTRONOMY SPACE RESEARCH (passive)	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
168 – 170 GHz	FIXED MOBILE				FIXED MOBILE	
170 – 174.5 GHz	FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385				FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385	
174.5 –176.5 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) S5.138 S5.341				EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) S5.138 S5.341	
176.5 – 182 GHz	FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385				FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
182 – 185 GHz	EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive) S5.340 S5.563				EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive) S5.340 S5.563	
185 – 190 GHz	FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385				FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385	
190 – 200 GHz	MOBILE MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE S5.341 S5.554				MOBILE MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE S5.341 S5.554	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
200 – 202 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED MOBILE SPACE RESEARCH(passive) S5.341				EARTH EXPLORATION-SATELLITE(passive) FIXED MOBILE SPACE RESEARCH(passive) S5.341	
202 – 217 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE S5.341				FIXED FIXED-SATELLITE (Earth-to-space) MOBILE S5.341	
217 – 231 GHz	EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive) S5.340 S5.341				EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive) S5.340 S5.341	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
231 – 235 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation				FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation	
235 – 238 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE SPACE RESEARCH(passive)				EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE SPACE RESEARCH(passive)	
238 –241 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation				FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
241 – 248 GHz	RADIOLOCATION Amateur Amateur-Satellite S5.138				RADIOLOCATION Amateur Amateur-Satellite S5.138	
248 – 250 GHz	AMATEUR AMATEUR-SATELLITE				AMATEUR AMATEUR-SATELLITE	
250 – 252 GHz	EARTH EXPLORATION-SATELLITE(passive) SPACE RESEARCH(passive) S5.149 S5.555				EARTH EXPLORATION-SATELLITE(passive) SPACE RESEARCH(passive) S5.149 S5.555	

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
252 – 265 GHz	MOBILE S5.553 MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE S5.149 S5.385 S5.554 S5.555 S5.564				MOBILE S5.553 MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE S5.149 S5.385 S5.554 S5.555 S5.564	
265 –275 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY S5.149				FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY S5.149	
275 – 400 GHz	Not allocated S5.565				Not allocated S5.565	