

PTS Spectrum Orientation Plan

This Spectrum Orientation Plan describes the current and planned use of different frequency bands in Sweden. The Plan also describes anticipated changes and licensing methods.

Other uses are possible in most bands in accordance with the principles of technology and service neutrality.

The plan should be seen as an orientation and an overview, rather than an exhaustive list. It is non-binding and can and will change over time without notice.

The technical conditions for license exempt spectrum is contained in the current version of the PTS regulations on exemptions from license obligation for certain radio transmitters.

Comments on the Spectrum Orientation Plan may be sent to pts@pts.se

This translation of the Spectrum Orientation Plan is for information only; please note that in the event of any discrepancy between the English version and the Swedish original, the latter will take precedence.

Frequency		Amount (MHz)	Popular name	Duplex band	Usage today	Planned changes	Licensing method
From (MHz)	To (MHz)						
0	26	26	Short wave/Inductive transmissions		Mobile maritime Aeronautical mobile Land mobile radio Radio link Radionavigation and radiolocation Broadcasting Amateur radio Private radio SRD MILITARY		SRD, amateur radio, Private radio etc. license exempt Other use Individual licenses
26	30	4			Land mobile radio, paging - simplex SRD (Private radio, model control, telemetry, baby monitoring etc.) Amateur radio MILITARY		Individual transmitters SRD and amateur radio license exempt
30	47	17			Land mobile radio SRD (model control, telemetry etc.) Wireless microphones MILITARY		Individual transmitters Wireless microphones and SRD license exempt
47	68	21	TV band I		EMPTY Amateur radio 50-52 MHz MILITARY	Under analysis Digital broadcasting / LMR / WAPECS	Band is under analysis Amateur radio license exempt
68,0	87,5	19,5	LMR 80 MHz band		Land mobile radio - simplex and duplex PPDR		Individual transmitters
87,5	108,0	20,5	FM radio		FM Broadcast SRD (low power FM)		Individual transmitters P1-P5 national Municipal radio Commercial FM radio according to MRTV decision SRD - 2010/368/EU license exempt
108,00	117,95	9,95			Aviation radio		Individual transmitters
117,95	120,00	2,05			Aviation radio		
120	137	17			Aviation radio		
137	138	1			Satellite (MSS downlink)		Usage governed by satellite coordination
138	144	6			Land mobile radio Aeronautical and maritime radio MILITARY		Individual transmitters for telemetry (Utilities)
144	146	2			Amateur radio		Amateur radio license exempt
146	162	16	VHF maritime		Maritime radio RR Ape 18 Land mobile radio		Individual transmitters
162	174	12	LMR 160 MHz band		Land mobile radio - simplex and duplex Maritime radio AIS SRD part of the band, hearing aids, safety alarms etc.) MILITARY		Individual transmitters SRD license exempt in part of the band
174	230	56	VHF, Band III		Digital TV (DVB-T) Digital radio (T-DAB, T-DAB+)	DVB-T2 Potentially other services that can coexist (Whitespace)	Individual transmitters
230	240	10	T-DAB		Digital radio (T-DAB, T-DAB+)		Individual transmitters
240	370	130			MILITARY Land mobile radio Aeronautical radionavigation service		Individual transmitters
370	371	1	370 MHz band	386-387	Narrowband Radio link, simplex and duplex		Individual transmitters
371	374	3			MILITARY		
374	376	2	370 MHz band	387-389	Narrowband Radio link, simplex and duplex	Also MILITARY use from 1/1 2017	Individual transmitters
376	380	4			MILITARY		
380	385	5	Rakel	390-395	Mobile communication (TETRA) Rakel		TETRA national block license Other use individual transmitters
385	386	1			MILITARY		
386	387	1	370 MHz band	370-371	Narrowband Radio link, simplex and duplex		Individual transmitters
387	389	2	370 MHz band	374-376	Narrowband Radio link, simplex and duplex	Also MILITARY use from 1/1 2017	Individual transmitters
389	390	1			MILITARY		
390	395	5	Rakel	380-385	Mobile communication (TETRA) Rakel		TETRA national block license Other use individual transmitters

Frequency		Amount (MHz)	Popular name	Duplex band	Usage today	Planned changes	Licensing method
From (MHz)	To (MHz)						
395	400	5			MILITARY		
400	403	3			Satellite (MSS downlink) Meteorology Medical implants		Usage governed by satellite coordination SRD license exempt
403	406	3			Meteorology (sondes) Medical implants Land mobile radio (405-406 MHz) Emergency frequency (406-406,1 MHz) ELT, EPIRB, PLB		SRD license exempt
406	432	26	LMR 400 MHz band (LOW)		Land mobile radio - simplex and duplex		Individual transmitters
432	438	6			Amateur radio SRD		SRD and amateur radio license exempt
438	440	2	Telemetry band		Land mobile radio, Telemetry		Individual transmitters
440	450	10	LMR 400 MHz band (HIGH)		Land mobile radio, Telemetry simplex and duplex, PMR 446		Individual transmitters, PMR 446 among others, license exempt
450,0	452,5	2,5	LMR 450 MHz band		Land mobile radio - simplex and duplex	Under analysis WAPECS	Individual transmitters
452,5	453,0	0,5	450 MHz band	462,5-463	Land mobile radio Mobile communication NIB (CDMA2000)	WAPECS	Individual transmitters National block licenses
453,0	457,5	4,5	450 MHz band	463-467,50	Mobile communication (CDMA2000)	WAPECS	National block licenses
457,5	462,5	5,0	LMR 450 MHz band		Land mobile radio - simplex and duplex Onboard vessels	Under analysis WAPECS	Individual transmitters
462,5	463,0	0,5	450 MHz band	452,5-453	Land mobile radio Mobile communication NIB (CDMA2000)	WAPECS	Individual transmitters National block licenses
463,0	467,5	4,5	450 MHz band	453-457,50	Mobile communication (CDMA2000)	WAPECS	National block licenses
467,5	470,0	2,5	LMR 450 MHz band		Land mobile radio - simplex and duplex, Onboard vessels	Under analysis WAPECS	Individual transmitters
470	790	320	UHF band IV/V		Digital-TV (DVB-T) Wireless microphones	DVB-T2 Potentially other services that can coexist (Whitespace)	Individual transmitters
790	791	1			EMPTY		
791	821	30	800 MHz band	832-862	WAPECS Mobile communication LTE		National block licenses
821	823	2			EMPTY		
823	832	9	800 MHz band centre gap		Wireless microphones		License exempt
832	862	30	800 MHz band	791-823	WAPECS Mobile communication LTE		National block licenses
862	863	1			EMPTY		
863	870	7	SRD-800		SRD (Wireless microphones, RFID etc.)	Under analysis	License exempt
870	871	1		915-916	Licensed SRD		Individual transmitters
871	876	5	870 MHz band	916-921	WAPECS Mobile communication	Potentially WAPECS	National block licenses
876	880	4	GSM-R	921-925	Mobile communication (GSM-R) Only used along railroads		
880	915	35	900 MHz band	925-960	WAPECS Mobile communication (GSM)		National block licenses Mobile communication (GSM) on board ships (registered in Sweden) license exempt
915	916	1		870-871	EMPTY		
916	921	5	870 MHz band	871-876	WAPECS Mobile communication	Potentially WAPECS	National block licenses
921	925	4	GSM-R	876-880	Mobile communication (GSM-R) Only used along railroads		
925	960	35	900 MHz band	880-915	WAPECS Mobile communication (GSM)		National block licenses
960	1 164	204			Aviation radio MILITARY		
1 164	1 215	51	GALILEO/GPS/GLO NASS		Aviation radio Aeronautical radionavigation service Satellite navigation (Galileo) MILITARY		Usage governed by satellite coordination
1 215	1 240	25	GPS		Radiolocation Satellite navigation (GPS)		Usage governed by satellite coordination
1 240	1 300	60	GLONASS/GALILEO		Radiolocation Satellite navigation (Galileo) amateur radio		Usage governed by satellite coordination
1 300	1 350	50			Aeronautical radionavigation service Radio astronomy MILITARY		
1 350	1 375	25			Radiolocation Radio astronomy MILITARY		
1 375	1 400	25	1,4 GHz	1427-1452	Radio astronomy Radio link - simplex and duplex		Individual transmitters

Frequency		Amount (MHz)	Popular name	Duplex band	Usage today	Planned changes	Licensing method
From (MHz)	To (MHz)						
1 400	1 427	27			Earth exploration via Satellite Radio astronomy		No radio broadcasting permitted in the frequency bands allocated to passive services
1 427	1 452	25	1,4 GHz	1375-1400	Radio link - simplex and duplex		Individual transmitters
1 452,0	1 479,5	27,5	1,5 GHz band		EMPTY	Under analysis WAPECS Block licenses Potential award 2013	Block licenses
1 479,5	1 492,0	12,5	1,5 GHz band		EMPTY	Under analysis WAPECS Block licenses Potential award 2013	Block licenses
1 492	1 518	26			MILITARY		
1 518	1 525	7	L-band		Satellite (MSS downlink) MILITARY		Usage governed by satellite coordination
1 525	1 559	34	L-band		Satellite (MSS downlink) MILITARY		Usage governed by satellite coordination
1 559	1 610	51	L-band GALILEO/GPS/ GLONASS		Satellite navigation (GPS, Galileo)		Usage governed by satellite coordination
1 610,0	1 626,5	16,5	L-band	2483,5-2500	Earth stations Radio astronomy		License exempt (1610-1621,35 MHz)
1 626,5	1 660,5	34,0	L-band		Earth stations Radio astronomy		License exempt
1 660,5	1 668,0	7,5			Radio astronomy		
1 668	1 675	7	L-band		Earth stations (MSS uplink) Radio astronomy		License exempt
1 675	1 710	35			Meteorology via Satellite		Usage governed by satellite coordination
1 710	1 785	75	1800 MHz band	1805-1880	WAPECS Mobile communication (GSM, LTE)	WAPECS New license conditions from 1 January 2013	National block licenses Mobile communication (GSM) on board ships (registered in Sweden) license exempt
1 785	1 805	20	1800 centre gap		EMPTY	Under analysis Wireless microphones/ WAPECS License exempt/block licenses Potential award 2013	
1 805	1 880	75	1800 MHz band	1710-1785	WAPECS Mobile communication (GSM, LTE)	WAPECS New license conditions from 1 January 2013 Potential license exempt part of the band	National block licenses Mobile communication (GSM) on board ships (registered in Sweden) license exempt
1 880	1 900	20	DECT		Wireless phones (DECT)		License exempt
1 900	1 920	20	2,1 GHz band (TDD)		WAPECS Mobile communication (UMTS TDD)	Under investigation by European Commission	National block licenses
1 920	1 980	60	2,1 GHz band	2110-2170	WAPECS Mobile communication (UMTS)		National block licenses
1 980	2 010	30	2 GHz MSS	2170-2200	Mobile satellite communication (MSS)		National block licenses for ground component. Operators selected after EU beauty contest
2 010	2 025	15	2010 MHz band		EMPTY	WAPECS Block licenses Under investigation by European Commission	Block licenses
2 025	2 110	85	TT&C	2200-2290	MILITARY Earth stations (TT&C uplink)		Individual transmitters
2 110	2 170	60	2,1 GHz band	1920-1980	WAPECS Mobile communication (UMTS)		National block licenses
2 170	2 200	30	2 GHz MSS	1980-2010	Mobile satellite communication (MSS)		National block licenses for ground component. Operators selected after EU beauty contest
2 200	2 290	90	TT&C	2025-2110	MILITARY Satellite (TT&C downlink)		Usage governed by satellite coordination
2 290	2 300	10			MILITARY		
2 300	2 400	100	2,3 GHz band		EMPTY Amateur radio	WAPECS Block licenses Potential award 2013 Potential change of license exemption 2012	Block licenses Amateur radio license exempt
2 400,0	2 483,5	83,5	2,4 GHz band		SRD Wireless networks (WLAN, Bluetooth etc.) MILITARY Amateur radio	Potential change of license exemption 2012	License exempt
2 483,5	2 500,0	16,5		1610-1626,5	Satellite (MSS downlink) Satellite (navigation system Galileo)	Galileo	Usage governed by satellite coordination
2 500	2 690	190	2,6 GHz band		WAPECS Mobile communication (LTE)		National block licenses
2 690	2 700	10			Radio astronomy		No radio broadcasting permitted in the frequency bands allocated to passive services

Frequency		Amount (MHz)	Popular name	Duplex band	Usage today	Planned changes	Licensing method
From (MHz)	To (MHz)						
2 700	2 900	200	2,8 GHz band		Aeronautical radionavigation service Radar Mobile video link	Under analysis ENG-OB/WAPECS Potential block licenses Potential award 2013-	
2 900	3 100	200			Radionavigation maritime, radar Radio astronomy MILITARY		Individual transmitters
3 100	3 300	200			Radiolocation Radio astronomy MILITARY		Individual transmitters
3 300	3 400	100			Radiolocation Radio astronomy MILITARY		Individual transmitters
3 400	3 600	200	3,5 GHz band		WAPECS Mobile communication (Wimax)	Under analysis 3400-3410/3500-3510 MHz WAPECS Possibly block licenses	National block licenses Regional block licenses
3 600	3 800	200	3,7 GHz band		WAPECS Mobile communication (Wimax)		Municipal block licenses
3 800	4 200	400	C-band		MILITARY	Under analysis Parts WAPECS Potential award 2013-	Potential block licenses
4 200	4 400	200			Aeronautical radionavigation service Altitude meters Earth exploration via Satellite MILITARY		
4 400	4 500	100			MILITARY		
4 500	4 800	300	AP30B C-band	6725-7025	MILITARY		
4 800	4 990	190			Radio astronomy MILITARY		
4 990	5 000	10			Radio astronomy		
5 000	5 150	150			MLS Aviation radio		
5 150	5 250	100	5 GHz band		Aeronautical navigation Wireless networks		SRD license exempt
5 250	5 350	100	5 GHz band		Wireless networks MILITARY		SRD license exempt
5 350	5 460	110			Aeronautical radionavigation service MILITARY		
5 460	5 470	10			Radiolocation MILITARY		
5 470	5 570	100	5 GHz band		Radionavigation maritime Wireless networks MILITARY		SRD license exempt
5 570	5 650	80	5 GHz band		Radionavigation maritime Radiolocation Wireless networks MILITARY		SRD license exempt
5 650	5 725	75	5 GHz band		Wireless networks amateur radio MILITARY		SRD and amateur radio license exempt
5 725	5 830	105	ISM		SRD Amateur radio	WAPECS	SRD license exempt
5 830	5 850	20	ISM		SRD Amateur radio	WAPECS	SRD license exempt
5 850	5 875	25	ISM		SRD		SRD license exempt
5 875	5 930	55	C-band		ISM ITS		Individual transmitters ITS license exempt
5 930	6 168	238	Low 6 GHz C-band	6182-6420	Radio link Earth stations (FSS uplink)		Individual transmitters
6 168	6 182	14	Low 6 GHz C-band		Guard band Radio link		Individual transmitters
6 182	6 420	238	Low 6 GHz C-band	5930-6168	Radio link Earth stations (FSS uplink)		Individual transmitters
6 420	6 440	20	C-band		Guard band Radio link		Individual transmitters
6 440	6 760	320	High 6 GHz AP30B C-band	6780-7100 4500-4800	Radio link Earth stations (FSS uplink, AP30B) Earth exploration via satellite		Individual transmitters
6 760	6 780	20	High 6 GHz AP30B C-band	4500-4800	Guard band Radio link		Individual transmitters
6 780	7 100	320	High 6 GHz AP30B C-band	6440-6760 4500-4800	Radio link Earth stations (FSS uplink, AP30B) Earth exploration via Satellite		Individual transmitters
7 100	7 250	150			MILITARY Earth exploration via Satellite		
7 250	7 427	177	X-band		MILITARY		
7 427	7 568	141	7 GHz X-band	7581-7722	Radio link Satellite (FSS downlink)		Individual transmitters
7 568	7 581	13	7 GHz X-band		Guard band Radio link		
7 581	7 722	141	7 GHz X-band	7427-7568	Radio link Satellite (FSS downlink)		Individual transmitters
7 722	7 750	28	X-band		Guard band Radio link		

Frequency		Amount (MHz)	Popular name	Duplex band	Usage today	Planned changes	Licensing method
From (MHz)	To (MHz)						
7 750	7 900	150			Meteorology via Satellite Radio link		Individual transmitters
7 900	8 185	285	8 GHz X-band	8210-8495	Radio link Earth stations (FSS uplink)		Individual transmitters
8 185	8 210	25	8 GHz X-band		Guard band Radio link Earth exploration via Satellite		Individual transmitters
8 210	8 495	285	8 GHz X-band	7900-8185	Radio link Earth stations (FSS uplink) Earth exploration via Satellite		Individual transmitters
8 495	9 800	1 305			Radiolocation Radionavigation for aeronautical and maritime MILITARY		Individual transmitters
9 800	9 900	100		9900-10000	EMPTY	Under analysis Potential Mobile video link	Individual transmitters
9 900	10 000	100		9800-9900	EMPTY	Under analysis Potential Mobile video link	Individual transmitters
10 000	10 210	210			Radiolocation MILITARY Amateur radio		Amateur radio license exempt
10 210	10 294	84	10,5 GHz band	10560-10644	WAPECS Radiolocation Radio link Amateur radio		Regional block licenses
10 294	10 560	266			Radiolocation SRD MILITARY Amateur radio		Radiolocation license exempt
10 560	10 644	84	10,5 GHz band	10210-10294	WAPECS Radio link SRD (Radiolocation) Radiolocation		Regional block licenses SRD license exempt
10 644	10 680	36			Radiolocation Radio astronomy Earth exploration via Satellite		
10 680	10 700	20			Radio astronomy Earth exploration via Satellite Space research		All use of radio prohibited
10 700	10 950	250	AP30B Ku-band	12750-13250	Satellite (FSS downlink, AP30B)		Usage governed by satellite coordination
10 950	11 200	250	Ku-band		Satellite (FSS downlink)		Usage governed by satellite coordination
11 200	11 450	250	AP30B Ku-band	12750-13250	Satellite (FSS downlink, AP30B)		Usage governed by satellite coordination
11 450	11 700	250	Ku-band		Satellite (FSS downlink)		Usage governed by satellite coordination
11 700	12 500	800	AP30 Ku-band	17300-18100	Satellite (BSS downlink, AP30, Satellite-TV)		Usage governed by satellite coordination
12 500	12 750	250	Ku-band		Satellite (FSS downlink)		Usage governed by satellite coordination
12 750	12 835	85	13 GHz AP30B Ku-band	13017-13241 10700-10950 11200-11450	Radio link Earth stations (FSS uplink, AP30B)		Individual transmitters
12 835	13 101	266	13 GHz AP30B Ku-band	10700-10950 11200-11450	Guard band Radio link Earth stations (FSS uplink, AP30B) MILITARY		Individual transmitters
13 101	13 250	149	13 GHz AP30B Ku-band	12751-12975 10700-10950 11200-11450	Radio link Earth stations (FSS uplink, AP30B) MILITARY		Individual transmitters
13 250	13 750	500			Aeronautical radionavigation Radiolocation SRD (Radiolocation) MILITARY		SRD license exempt
13 750	14 000	250	Ku-band		Earth stations (FSS uplink) Radiolocation MILITARY		Individual transmitters. SRD license exempt
14 000	14 500	500	Ku-band		Earth stations (FSS / MSS uplink)		License exempt
14 500	14 781	281	15 GHz	14921-15201	Radio link		Individual transmitters
14 781	14 921	140	15 GHz		Guard band Radio link MILITARY		
14 921	15 201	280	15 GHz	14500-14781	Radio link		Individual transmitters
15 201	15 350	149	15 GHz		Guard band Radio link MILITARY		
15 350	15 400	50			Earth exploration via Satellite Radio astronomy		All use of radio prohibited
15 400	17 100	1 700			Aeronautical radionavigation MILITARY		Individual transmitters
17 100	17 300	200			Radiolocation SRD MILITARY		Individual transmitters SRD license exempt
17 300	17 700	400	AP30A Ka-band	11700-12500	Feeder link (Satellite / AP30A)		Individual transmitters

Frequency		Amount (MHz)	Popular name	Duplex band	Usage today	Planned changes	Licensing method
From (MHz)	To (MHz)						
17 700	18 690	990	18 GHz AP30A Ka-band	11700-12500 18710-19700	Radio link Feeder link (Satellite / AP30A) Earth exploration via Satellite (18.6-18.8 GHz) Earth stations (FSS uplink) Satellite (FSS downlink) MILITARY		Individual transmitters
18 690	18 710	20	18 GHz Ka-band		MILITARY		
18 710	19 700	990	18 GHz Ka-band	17700-18690	Radio link MILITARY		Individual transmitters
19 700	21 200	1 500	Ka-band		EMPTY		
21 200	21 400	200			Earth exploration via satellite		
21 400	22 000	600	Ka-band		Satellite (FSS downlink) Vehicular radar (SRR)		Usage governed by satellite coordination SRD license exempt
22 000	22 600	600	23 GHz	23000-23600	Radio link Vehicular radar (SRR) Radio astronomy MILITARY		Individual transmitters SRR license exempt
22 600	23 000	400	23 GHz		Vehicular radar (SRR) Radio astronomy MILITARY		SRR license exempt
23 000	23 600	600	23 GHz	22000-22600	Radio link Vehicular radar (SRR) Radio astronomy MILITARY		Individual transmitters SRR license exempt
23 600	24 000	400			Earth exploration via satellite Radio astronomy Space research (passive) Vehicular radar (SRR)		SRR partly license exempt
24 000	24 549	549			SRD (Radiolocation) Amateur radio Vehicular radar (SRR)		License exempt
24 549	24 717	168	26 GHz band	25557-25725	FWA Radio link Vehicular radar (SRR)	Potentially WAPECS	National block licenses SRR license exempt
24 717	25 500	783	26 GHz band	25725-26500	Radio link Vehicular radar (SRR)		Individual transmitters SRR license exempt
25 500	25 557	57			Guard band Radio link Vehicular radar (SRR)		SRR license exempt
25 557	25 725	168	26 GHz band	24549-24717	FWA Radio link Vehicular radar (SRR)	Potentially WAPECS	National block licenses SRR license exempt
25 725	26 500	775	26 GHz band	24717-25500	Radio link Vehicular radar (SRR)		Individual transmitters SRR license exempt
26 500	27 500	1 000			EMPTY		
27 500,0	27 940,5	440,5	Ka-band		Earth station (FSS uplink)		Individual transmitters
27 940,5	28 444,5	504,0	28 GHz band	28948,50- 29452,50	WAPECS Radio link		National block licenses
28 444,5	28 948,5	504,0	Ka-band		Earth station (FSS uplink)		Individual transmitters
28 948,5	29 452,5	504,0	28 GHz band	27940,50- 28444,50	WAPECS Radio link		National block licenses
29 452,5	29 500,0	47,5	Ka-band		Earth station (FSS uplink)		Individual transmitters
29 500	30 000	500	Ka-band		Earth station (FSS / MSS uplink)		license exempt
30 000	31 000	1 000	Ka-band		Earth station (FSS / MSS uplink)		Individual transmitters
31 000	31 129	129	31 GHz	31157-31269	EMPTY		
31 129	31 157	28			Radio astronomy		
31 157	31 269	112	31 GHz	31017-31129	Radio astronomy		
31 269	31 300	31			Radio astronomy		
31 300	31 800	500			Earth exploration via Satellite Radio astronomy		
31 800	31 815	15			Guard band Radio link		
31 815	32 571	756	32 GHz	32627-33383	Radio link		Individual transmitters
32 571	32 627	56			Guard band Radio link		
32 627	33 383	756	32 GHz	31815-32571	Radio link		Individual transmitters
33 383	33 400	17			Guard band Radio link		
33 400	34 000	600			EMPTY		
34 000	34 500	500			MILITARY		
34 500	37 000	2 500			Satellite (FSS / MSS downlink)		
37 000	37 058	58			Guard band Radio link		
37 058	38 178	1 120	38 GHz V-band	38318-39438	Radio link		Individual transmitters
38 178	38 318	140	38 GHz V-band		Guard band Radio link		
38 318	39 438	1 120	38 GHz V-band	37058-38178	Radio link Satellite (downlink)		Individual transmitters
39 438	39 500	62			Guard band Radio link		
39 500	42 500	3 000	V-band		EMPTY	Under analysis WAPECS	
42 500	43 500	1 000			Radio astronomy	Under analysis WAPECS	
43 500	47 000	3 500			EMPTY		

Frequency			Popular name	Duplex band	Usage today	Planned changes	Licensing method
From (MHz)	To (MHz)	Amount (MHz)					
47 000	47 200	200			Amateur radio		Amateur radio license exempt
47 200	48 510	1 310	V-band		EMPTY		
48 510	50 200	1 690	V-band		EMPTY		
50 200	50 400	200			Earth exploration via Satellite Radio astronomy Space research		No radio broadcasting permitted in the frequency bands allocated to passive services
50 400	51 400	1 000	V-band		EMPTY		
51 400	52 600	1 200			EMPTY		
52 600	55 780	3 180			Space research		
55 780	57 000	1 220			EMPTY		
57 000	59 000	2 000	58 GHz band		Radio link SRD (unspecified and also level measurement in closed receptacle)		Radio link and SRD license exempt
59 000	64 000	5 000	60 GHz band		Radio link SRD (unspecified and also level measurement in closed receptacle)		Radio link and SRD license exempt
64 000	66 000	2 000			SRD (data)		SRD license exempt
66 000	71 000	5 000			Radionavigation		
71 000	76 000	5 000	75 GHz band	81000-86000	Radio link Amateur radio	Under analysis WAPECS Block licenses Potential award 2013	Amateur radio in 75-76 GHz license exempt
76 000	81 000	5 000			Radio astronomy Vehicular radar (SRR) Radiolocation Amateur radio		License exempt
81 000	86 000	5 000	75 GHz band	71000-76000	Radio link Radio astronomy	Under analysis WAPECS Block licenses Potential award 2013	
86 000	92 000	6 000			Earth exploration via Satellite Radio astronomy		No radio broadcasting permitted in the frequency bands allocated to passive services
92 000	100 000	8 000	90 GHz band		Earth exploration Radio astronomy		
100 000	116 000	16 000			Radio astronomy Earth exploration via Satellite		
116 000	122 000	6 000			Earth exploration via Satellite		
122 000	123 000	1 000			SRD (unspecified) Amateur radio		Amateur radio and SRD license exempt
123 000	134 000	11 000			EMPTY		
134 000	141 000	7 000			Amateur radio		Amateur radio license exempt
141 000	241 000	100 000			Earth exploration via Satellite		
241 000	246 000	5 000			SRD (unspecified) Amateur radio		License exempt
246 000	250 000	4 000			Amateur radio		Amateur radio license exempt
250 000	1 000 000	750 000			Earth exploration via Satellite in certain sub-bands		