



## WMS 470 Frequency Chart

Band I 650.1 to 680.0 MHz

Description:	Full Range	Full Range	Full Range	Full Range	US TV44	US TV45	US TV46	US TV47	US TV48	EU TV44	EU TV45	EU TV46	France Series 1	France Series 2	France Series 3	
Group:	1.A	1.B	1.C	1.D	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	F1	F2	F3	
Frequency 1	650,100	650,100	650,100	650,100	650,100	656,100	662,100	668,100	674,100	654,100	662,100	670,100	650,500	650,225	650,775	
Frequency 2	679,200	650,500	651,000	676,900	655,850	661,850	667,850	673,850	679,850	654,700	662,700	670,700	651,250	654,500	652,000	
Frequency 3	651,450	679,800	654,000	677,800	650,500	656,500	662,500	668,500	674,500	661,700	669,700	677,700	651,750	658,225	656,975	
Frequency 4	676,500	679,000	655,600	651,800	654,800	660,800	666,800	672,800	678,800	660,100	668,100	676,100	655,750	660,900	669,900	
Frequency 5	656,450	655,350	656,700	668,400	652,150	658,150	664,150	670,150	676,150	657,650	665,650	673,650	666,500	673,500	677,100	
Frequency 6	665,000	671,400	663,900	659,600									679,750	676,500	677,500	
Frequency 7	674,700	661,150	668,700	672,500									671,250	678,100	660,700	
Frequency 8	657,050	675,400	670,100	654,100									657,250	678,500	672,975	
Frequency 9	667,250	653,150	670,700	666,200									659,500	650,975	652,700	
Frequency 10		662,500	675,100	655,100									676,250	656,775	654,300	
Frequency 11			678,800	670,900										662,100	666,025	
Frequency 12			679,200	657,500												
Frequency 13				666,600												
Frequency 14				679,800												
Frequency 15				676,300												
Frequency 16				669,800												

# WMS 470 Frequency Chart

Band III 720.0 to 750.0 MHz

Description:	Full Range	Full Range	Full Range	Full Range	EU TV52	EU TV53	EU TV54	EU TV55	France Series 1	France Series 2	France Series 3	Belgium				
Group:	3.A	3.B	3.C	3.D	3.0	3.1	3.2	3.3	F1	F2	F3	BE				
Frequency 1	720,100	720,100	720,100	720,100	720,100	726,100	732,100	740,100	720,500	720,025	720,225	734,100				
Frequency 2	749,200	720,500	721,000	746,900	720,700	726,700	732,700	740,700	721,250	720,775	722,025	734,900				
Frequency 3	721,450	749,800	724,000	747,800	727,700	733,700	739,700	747,700	723,750	722,975	725,900	735,500				
Frequency 4	746,500	749,000	725,600	721,800	726,100	732,100	738,100	746,100	728,500	729,500	728,975	738,700				
Frequency 5	726,450	725,350	726,700	738,400	723,650	729,650	735,650	743,650	731,500	734,500	736,225	735,900				
Frequency 6	735,000	741,400	733,900	729,600					748,250	740,900	749,900	739,900				
Frequency 7	744,700	731,150	738,700	742,500					737,750	742,100	738,775	737,200				
Frequency 8	727,050	745,400	740,100	724,100					746,500	746,225	720,975	739,200				
Frequency 9	737,250	723,150	740,700	736,200					721,750	732,900	749,500	740,800				
Frequency 10		732,500	745,100	725,100					742,750	749,300	724,700					
Frequency 11			748,800	740,900					743,750		748,000					
Frequency 12			749,200	727,500												
Frequency 13				736,600												
Frequency 14				749,800												
Frequency 15				746,300												
Frequency 16				739,800												



# WMS 470 Frequency Chart

Band III-K 740.1 to 751.9 MHz

Description:	Full Range	Full Range	Full Range	Full Range	LOW	HIGH	Full Range								
Group:	3.A	3.B	3.C	3.D	3.0	3.1	3.2								
Frequency 1	740,100	740,100	740,100	740,100	740,100	746,100	740,100								
Frequency 2	740,500	740,550	740,550	741,100	745,850	751,850	751,200								
Frequency 3	750,600	744,750	742,700	745,500	740,500	746,500	751,800								
Frequency 4	751,800	747,600	744,450	746,700	744,800	750,800	740,950								
Frequency 5	742,950	748,500	746,800	748,100	742,150	748,150	743,625								
Frequency 6	744,950	749,850	749,600	749,700			746,800								
Frequency 7	746,550	741,300	750,300	751,500			741,250								
Frequency 8		743,250	743,050	751,900			750,850								
Frequency 9		750,900	747,600	740,400			744,725								
Frequency 10		751,500	751,250	743,200			749,625								
Frequency 11			751,850	744,000			741,950								
Frequency 12				747,200			743,225								
Frequency 13							748,725								
Frequency 14							744,275								
Frequency 15															

## WMS 470 Frequency Chart

Band V-A 790.0 to 821.5 MHz

Description:	Full Range	Full Range	Full Range	Full Range	EU TV61	EU TV62	EU TV63	EU TV64	Netherlands	Australia	TH	Germany	Germany	Germany	Germany	Germany	France Series 1	France Series 2	France Series 3
Group:	5.A	5.B	5.C	5.D	5.0	5.1	5.2	5.3	NL	AU	TH	D1	D2	D3	D4	D5	F1	F2	F3
Frequency 1	790,100	790,100	790,100	790,100	790,100	798,100	806,100	814,100	806,100	800,200	794,100	798,100	798,100	798,300	798,850	790,100	790,750	790,100	790,300
Frequency 2	819,200	790,500	791,000	816,900	790,700	798,700	806,700	814,700	806,600	800,800	797,600	798,500	798,600	798,700	799,400	790,700	791,750	792,025	791,000
Frequency 3	791,450	819,800	794,000	817,800	797,700	805,700	813,700	820,100	808,700	813,400	800,200	799,750	802,425	799,250	801,425	803,300	792,500	794,225	799,000
Frequency 4	816,500	819,000	795,600	791,800	796,100	804,100	812,100	817,650	809,400	815,800	801,600	801,575	805,500	800,950	805,075	805,700	795,750	794,975	805,100
Frequency 5	796,450	795,350	796,700	808,400	793,650	801,650	809,650		810,500	819,400	802,600	809,575	812,250	809,775	811,550	809,300	815,750	804,900	810,025
Frequency 6	805,000	811,400	803,900	799,600					811,800	817,200	794,600	811,950	813,900	812,150	812,850	807,100	819,500	809,500	813,500
Frequency 7	814,700	801,150	808,700	812,500					815,500	819,800	795,700	813,900	807,575	813,600	813,775	809,700	806,750	812,900	794,775
Frequency 8	797,050	815,400	810,100	794,100					807,500	801,800	796,400	802,675	800,050	804,625	800,600	791,700	795,250	818,975	797,900
Frequency 9	807,250	793,150	810,700	806,200					814,000	803,600	798,500	808,175	810,425	807,950	805,750	793,500	800,500	797,300	792,225
Frequency 10		802,500	815,100	795,100					817,200	808,400	802,200		811,250		809,100	798,300	802,500	813,300	813,900
Frequency 11			818,800	810,900					817,800	811,400					810,525	801,300	817,250	814,500	816,225
Frequency 12			819,200	797,500					818,200	812,600						802,500			
Frequency 13				806,600															
Frequency 14				819,800															
Frequency 15				816,300															
Frequency 16				809,800															



# WMS 470 Frequency Chart

Band V-D 794.1 to 805.9 MHz

Description:	Full Range	Full Range	Full Range	Full Range	Full Range	LOW	Thailand								
Group:	5.A	5.B	5.C	5.D	5.0	5.1	TH								
Frequency 1	794,100	794,100	794,100	794,100	794,100	800,100	794,100								
Frequency 2	794,500	794,550	794,550	795,100	799,850	805,850	797,600								
Frequency 3	805,800	798,750	796,700	799,500	794,500	800,500	800,200								
Frequency 4	804,600	801,600	798,450	800,700	798,800	804,800	801,600								
Frequency 5	801,550	802,500	800,800	802,100	796,150	802,150	802,600								
Frequency 6	796,100	803,850	803,600	803,700			794,600								
Frequency 7	800,750	795,300	804,300	805,500			795,700								
Frequency 8		797,250	797,050	805,900			796,400								
Frequency 9		804,900	801,600	794,400			798,500								
Frequency 10		805,500	805,250	797,200			802,200								
Frequency 11			805,850	798,000											
Frequency 12				801,200											
Frequency 13															
Frequency 14															
Frequency 15															
Frequency 16															



# WMS 470 Frequency Chart

Band V-B 806.125 to 809.750 MHz

Description:	JAPAN B	JAPAN B	JAPAN B	JAPAN B	JAPAN B	JAPAN B										
Group:	5.A	5.0	5.2	5.4	5.6	5.8										
Frequency 1	806,125	806,125	806,125	806,125	806,125	806,125										
Frequency 2	809,625	806,500	806,500	806,500	807,500	806,875										
Frequency 3	809,250	808,250	808,250	808,250	809,250	809,250										
Frequency 4	807,000	809,625	809,625	809,750	809,625	809,625										
Frequency 5		807,000	807,750	807,750	806,750	807,500										
Frequency 6		809,000	808,875	808,875	808,750	808,000										
Frequency 7																
Frequency 8																
Frequency 9																
Frequency 10																
Frequency 11																
Frequency 12																
Frequency 13																
Frequency 14																
Frequency 15																
Frequency 16																

# WMS 470 Frequency Chart

Band VI-A-ISM 835.1 to 861.9 MHz  
863.1 to 864.9 MHz

Description:	Full Range	Full Range	Full Range	Full Range	ISM	EU TV67	EU TV68	TV69 + ISM	Germany						
Group:	6.A	6.B	6.C	6.D	6.0	6.1	6.2	6.3	D5						
Frequency 1	835,100	835,100	835,100	835,100	863,100	838,100	846,100	854,100	838,100						
Frequency 2	836,450	835,500	836,000	861,900	863,550	838,700	846,700	854,950	838,700						
Frequency 3	861,500	840,350	839,000	836,800	864,350	845,700	853,700	860,050	851,300						
Frequency 4	841,450	856,400	840,600	853,400	864,900	844,100	852,100	856,250	853,700						
Frequency 5	850,000	846,150	841,700	844,600		841,650	849,650	861,750	857,300						
Frequency 6	859,700	860,400	848,900	857,500				864,300	855,100						
Frequency 7	842,050	838,150	853,700	839,100				864,750	857,700						
Frequency 8	852,250	847,500	855,100	851,200					839,700						
Frequency 9	864,200	864,800	855,700	840,100					841,500						
Frequency 10		864,000	860,100	855,900					846,300						
Frequency 11			863,800	842,500					849,300						
Frequency 12			864,200	851,600					850,500						
Frequency 13				861,300											
Frequency 14				854,800											
Frequency 15				864,800											
Frequency 16															

# WMS 470 Frequency Chart

## Band VII 500.1 to 530.5 MHz

Description:	Full Range	Full Range	Full Range	Full Range	US TV19	US TV20	US TV21	US TV22	US TV23	EU TV25	EU TV26	EU TV27	France Series 1	France Series 2	France Series 3	Belgium
Group:	7.A	7.B	7.C	7.D	7.0	7.1	7.2	7.3	7.2	7.3	7.4	7.5	F1	F2	F3	BE
Frequency 1	500,100	500,100	500,100	500,100	500,100	506,100	512,100	518,100	524,100	502,100	510,100	518,100	500,250	500,500	500,700	518,100
Frequency 2	529,200	500,500	501,000	526,450	505,850	511,850	517,850	523,850	529,850	502,700	510,700	518,700	502,750	501,700	501,500	518,500
Frequency 3	501,450	529,800	504,000	500,750	500,500	506,500	512,500	518,500	524,500	509,700	517,700	525,700	506,500	504,775	509,900	519,700
Frequency 4	526,500	529,000	505,600	529,300	504,800	510,800	516,800	522,800	528,800	508,100	516,100	524,100	510,750	505,500	512,225	520,550
Frequency 5	506,450	505,350	506,700	507,350	502,150	508,150	514,150	520,150	526,150	505,650	513,650	521,650	511,500	510,100	516,000	521,100
Frequency 6	515,000	521,400	513,900	509,650									513,750	517,300	520,225	523,300
Frequency 7	524,700	511,150	518,700	502,550									515,500	517,700	525,500	524,350
Frequency 8	507,050	525,400	520,100	510,050									523,250	520,025	525,900	525,050
Frequency 9	517,250	503,150	520,700	513,100									527,750	526,500	527,000	
Frequency 10		512,500	525,100	524,300									529,250	528,025	528,975	
Frequency 11			528,800	525,200									529,750			
Frequency 12			529,200	511,700												
Frequency 13				521,350												
Frequency 14				503,350												
Frequency 15				517,800												
Frequency 16				529,800												



# WMS 470 Frequency Chart

Band VIII 570.1 to 600.5 MHz

Description:	Full Range	Full Range	Full Range	Full Range	US TV31	US TV32	US TV33	US TV34	EU TV34	EU TV35	EU TV36	France Series 1	France Series 2	France Series 3	Belgium	
Group:	8.0	8.1	8.2	8.3	8.0	8.1	8.2	8.3	8.4	8.5	8.6	F1	F2	F3	BE	
Frequency 1	570,100	570,100	570,100	570,100	572,100	578,100	584,100	590,100	574,100	582,100	590,100	570,500	570,225	570,775	582,100	
Frequency 2	599,200	570,500	571,000	596,900	577,850	583,850	589,850	595,850	574,700	582,700	590,700	571,500	572,500	573,100	582,500	
Frequency 3	571,450	599,800	574,000	597,800	572,500	578,500	584,500	590,500	581,700	589,700	597,700	575,750	572,900	575,000	583,700	
Frequency 4	596,500	599,000	575,600	571,800	576,800	582,800	588,800	594,800	580,100	588,100	596,100	577,750	578,975	580,700	584,550	
Frequency 5	576,450	575,350	576,700	588,400	574,150	580,150	586,150	592,150	577,650	585,650	593,650	579,250	580,500	581,500	585,100	
Frequency 6	585,000	591,400	583,900	579,600								590,750	582,500	588,700	587,300	
Frequency 7	594,700	581,150	588,700	592,500								591,250	593,500	594,025	588,350	
Frequency 8	577,050	595,400	590,100	574,100								593,750	594,225	597,500	589,050	
Frequency 9	587,250	573,150	590,700	586,200								594,500	597,300	597,900		
Frequency 10		582,500	595,100	575,100								599,250	598,500	599,000		
Frequency 11			598,800	590,900												
Frequency 12			599,200	577,500												
Frequency 13				586,600												
Frequency 14				599,800												
Frequency 15				596,300												
Frequency 16				589,800												



## WMS 470 Frequency Chart

Band IX    600.1 to 605.9 MHz  
              614.1 to 630.5 MHz

Description:	Full Range	Full Range	Full Range	Full Range	US TV36	US TV38	US TV39	EU TV37	EU TV39	EU TV40	France Series 1	France Series 2	France Series 3			
Group:	9.A	9.B	9.C	9.D	9.0	9.1	9.2	9.3	9.4	9.5	F1	F2	F3			
Frequency 1	600,100	600,100	600,100	600,100	602,100	614,100	620,100	600,100	614,100	622,100	600,500	602,225	600,225			
Frequency 2	624,100	628,850	630,150	629,250	605,800	617,800	623,800	605,850	614,700	622,700	601,250	602,975	602,025			
Frequency 3	626,700	601,500	629,000	628,750	602,500	614,500	620,500	600,500	621,700	629,700	603,750	604,900	605,900			
Frequency 4	603,300	629,250	604,350	600,500	604,950	616,950	622,950	604,800	620,100	628,100	628,250	614,500	616,225			
Frequency 5	616,900	618,300	603,950	604,850	603,850	615,850	621,850	602,150	617,650	625,650	617,750	622,500	629,900			
Frequency 6	618,300	625,100	622,750	601,800							626,500	625,500	618,775			
Frequency 7	604,100	615,800	623,550	604,250							601,750	628,900	600,975			
Frequency 8	628,750	603,400	602,450	620,450							622,750	630,100	629,500			
Frequency 9		624,100	617,650	626,100							623,750		604,700			
Frequency 10			614,250	617,900									628,000			
Frequency 11				625,300												
Frequency 12				605,850												
Frequency 13				623,800												
Frequency 14				628,050												
Frequency 15				615,800												
Frequency 16																

# WMS 470 Frequency Chart

Band IX-U 600.1 to 630.5 MHz

Description:	Full Range	Full Range	Full Range	Full Range	UK TV38 outdoor	UK TV38 indoor	TV39	TV40	TV38+39	TV38+40	TV38+39+40	EUROPE				
Group:	9.A	9.B	9.C	9.D	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7				
Frequency 1	600,100	600,100	600,100	600,100	607,250	606,500	614,500	622,500	606,500	606,500	606,500	600,100				
Frequency 2	629,200	600,500	601,000	626,900	607,650	608,650	616,650	624,650	606,900	606,900	606,900	629,250				
Frequency 3	601,450	629,800	604,000	627,800	608,900	611,450	619,450	627,450	609,800	608,300	611,900	628,750				
Frequency 4	626,500	629,000	605,600	601,800	610,950	612,750	620,750	628,750	614,800	611,400	613,500	600,500				
Frequency 5	606,450	605,350	606,700	618,400	611,800	613,150	621,150	629,150	618,550	623,200	615,500	604,850				
Frequency 6	615,000	621,400	613,900	609,600	612,400	607,150	615,150	623,150	619,400	626,000	621,500	601,800				
Frequency 7	624,700	611,150	618,700	622,500		609,500	617,500	625,500	620,650	627,000	626,100	604,250				
Frequency 8	607,050	625,400	620,100	604,100					607,950	629,500	607,900	620,450				
Frequency 9	617,250	603,150	620,700	616,200					610,450	612,600	618,700	626,100				
Frequency 10		612,500	625,100	605,100					612,100	613,400	624,900	617,900				
Frequency 11			628,800	620,900						625,400	627,900	625,300				
Frequency 12			629,200	607,500							628,700	605,850				
Frequency 13				616,600								623,800				
Frequency 14				629,800								628,050				
Frequency 15				626,300								615,800				
Frequency 16				619,800												



# WMS 470 Frequency Chart

Band X     823.100 to 831.900

Description:	Full Range	Full Range	Full Range	Full Range	CH	CH	CH									
Group:	1.A	1.B	1.C	1.D	1.0	1.1	1.2									
Frequency 1	823,550	823,500	823,700	823,500	826,100	826,100	826,100									
Frequency 2	828,250	827,750	826,400	828,400	827,600	826,500	828,000									
Frequency 3	825,350	824,750	825,600	826,700	829,700	827,550	826,650									
Frequency 4	823,100	827,000	828,700	824,400	830,100	829,400	827,600									
Frequency 5	829,400	823,100	823,100	823,100		830,100	830,300									
Frequency 6		829,700	830,000	829,450			831,000									
Frequency 7			830,400	830,900												
Frequency 8				831,450												
Frequency 9																
Frequency 10																
Frequency 11																
Frequency 12																
Frequency 13																
Frequency 14																
Frequency 15																
Frequency 16																