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## Television Frequencies

- It is not possible to receive digital TV audio with a scanner or AM/FM receiver.
- Before the transition from analog to digital TV in 2009, audio from analog TV stations could be received in wideband FM (WFM) mode. Each audio channel used 100 kHz bandwidth.
- The video and audio carrier frequencies listed in the table below are for NTSC analog TV and are **not applicable** to ATSC digital TV (DTV or HDTV).
- Some analog TV stations were offset + or - 10 kHz (.01 MHz) from the standard frequencies to reduce co-channel interference.
- The 8-VSB modulation used in ATSC (DTV) has a pilot carrier that serves as a reference frequency for DTV receivers and can be heard on an AM or FM receiver. The pilot carrier is approximately 310 kHz (.31 MHz) above the lower band edge. The exact frequency used may vary because the transmitted signal may be offset slightly to reduce interference.

## US Television Channels

**US Television Channels (MHz)**

Channel	Band Limits	DTV Pilot	Analog Video	Analog Audio	Notes
2	54-60	54.31	55.25	59.75	
3	60-66	60.31	61.25	65.75	
4	66-72	66.31	67.25	71.75	
5	76-82	76.31	77.25	81.75	
6	82-88	82.31	83.25	87.75	
7	174-180	174.31	175.25	179.75	
8	180-186	180.31	181.25	185.75	
9	186-192	186.31	187.25	191.75	
10	192-198	192.31	193.25	197.75	
11	198-204	198.31	199.25	203.75	
12	204-120	204.31	205.25	209.75	
13	210-216	210.31	211.25	215.75	
14	470-476	470.31	471.25	475.75	1 (a b c g h i k)
15	476-482	476.31	477.25	481.75	1 (b c e g i)
16	482-488	482.31	483.25	487.75	1 (a d e g i l)
17	488-494	488.31	489.25	493.75	1 (f l m)
18	494-500	494.31	495.25	499.75	1 (k m)
19	500-506	500.31	501.25	505.75	1 (j)
20	506-512	506.31	507.25	511.75	1 (g j)
21	512-518	512.31	513.25	517.75	
22	518-524	518.31	519.25	523.75	
23	524-530	524.31	525.25	529.75	
24	530-536	530.31	531.25	535.75	
25	536-542	536.31	537.25	541.75	
26	542-548	542.31	543.25	547.75	
27	548-554	548.31	549.25	553.75	
28	554-560	554.31	555.25	559.75	
29	560-566	560.31	561.25	565.75	
30	566-572	566.31	567.25	571.75	
31	572-578	572.31	573.25	577.75	
32	578-584	578.31	579.25	583.75	
33	584-590	584.31	585.25	589.75	
34	590-596	590.31	591.25	595.75	
35	596-602	596.31	597.25	601.75	
36	602-608	602.31	603.25	607.75	
37	608-614	608.31	609.25	613.75	2
38	614-620	614.31	615.25	619.75	
39	620-626	620.31	621.25	625.75	
40	626-632	626.31	627.25	631.75	
41	632-638	632.31	633.25	637.75	
42	638-644	638.31	639.25	643.75	
43	644-650	644.31	645.25	649.75	
44	650-656	650.31	651.25	655.75	



45	656-662	656.31	657.25	661.75	
46	662-668	662.31	663.25	667.75	
47	668-674	668.31	669.25	673.75	
48	674-680	674.31	675.25	679.75	
49	680-686	680.31	681.25	685.75	
50	686-692	686.31	687.25	691.75	
51	692-698	692.31	693.25	697.75	
52	698-704	698.31	699.25	703.75	3
53	704-710	704.31	705.25	709.75	3
54	710-716	710.31	711.25	715.75	3
55	716-722	716.31	717.25	721.75	3
56	722-728	722.31	723.25	727.75	3
57	728-734	728.31	729.25	733.75	3
58	734-740	734.31	735.25	739.75	3
59	740-746	740.31	741.25	745.75	3
60	746-752	746.31	747.25	751.75	4
61	752-758	752.31	753.25	757.75	4
62	758-764	758.31	759.25	763.75	4
63	764-770	764.31	765.25	769.75	4
64	770-776	770.31	771.25	775.75	4
65	776-782	776.31	777.25	781.75	4
66	782-788	782.31	783.25	787.75	4
67	788-794	788.31	789.25	793.75	4
68	794-800	794.31	795.25	799.75	4
69	800-806	800.31	801.25	805.75	4
70	806-812	806.31	807.25	811.75	5
71	812-818	812.31	813.25	817.75	5
72	818-824	818.31	819.25	823.75	5
73	824-830	824.31	825.25	829.75	5
74	830-836	830.31	831.25	835.75	5
75	836-842	836.31	837.25	841.75	5
76	842-848	842.31	843.25	847.75	5
77	848-854	848.31	849.25	853.75	5
78	854-860	854.31	855.25	859.75	5
79	860-866	860.31	861.25	865.75	5
80	866-872	866.31	867.25	871.75	5
81	872-878	872.31	873.25	877.75	5
82	878-884	878.31	879.25	883.75	5
83	884-890	884.31	885.25	889.75	5

### Notes

- 1. 470-512 MHz (channels 14-20) - UHF-T band used for land mobile radio only within 50 miles of the following metropolitan areas:
  - (a) Boston, MA (Ch 14, 16)
  - (b) Chicago, IL (Ch 14, 15)
  - (c) Cleveland, OH (Ch 14, 15)
  - (d) Dallas/Fort Worth, TX (Ch 16)
  - (e) Detroit, MI (Ch 15, 16)
  - (f) Houston, TX (Ch 17)
  - (g) Los Angeles, CA (Ch 14, 15, 16, 20)
  - (h) Miami, FL (Ch 14)
  - (i) New York, NY (Ch 14, 15, 16)
  - (j) Philadelphia, PA (Ch 19, 20)
  - (k) Pittsburgh, PA (Ch 14, 18)
  - (l) San Francisco/Oakland, CA (Ch 16, 17)
  - (m) Washington, DC (Ch 17, 18)
- 2. 608-614 MHz (channel 37) - Reserved for radio astronomy. Audio, video and pilot frequencies are for reference only.
- 3. 698-746 MHz (channels 52-59) - Lower 700 MHz commercial land mobile band. Full power TV stations will vacate this band. Some low power TV stations and translators may remain. Audio, video and pilot frequencies are for reference only.
- 4. 746-806 MHz (channels 60-69) - Upper 700 MHz commercial and public safety land mobile band. Full power TV stations vacated this band in 2009. Some low power TV stations and translators may remain. Audio, video and pilot frequencies are for reference only.
- 5. 806-890 MHz (channels 70-83) - 800 MHz land mobile and cellular telephone band. Full power TV stations vacated this band in the late 1970s. Audio, video and pilot frequencies are for reference only.

### References

- [FCC Video Division Page](#)
- [47CFR90.303 Authorization in the Band 470-512 MHz \(UHF-TV Sharing\)](#)
- [Revised 700 MHz Band Plan for Commercial Services](#)

- [Revised 700 MHz Band Plan for Public Safety Services](#)

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