§ 95.632 MURS transmitter frequencies.

(a) The MURS transmitter channel frequencies are 151.820 MHz, 151.880 MHz, 151.940 MHz, 154.570 MHz, 154.600 MHz.

(b) The authorized bandwidth is 11.25 kHz on frequencies 151.820 MHz, 151.880 MHz and 151.940 MHz. The authorized bandwidth is 20.0 kHz on frequencies 154.570 and 154.600 MHz.

(c) MURS transmitters must maintain a frequency stability of 5.0 ppm, or 2.0 ppm if designed to operate with a 6.25 kHz bandwidth.


§ 95.633 Emission bandwidth.

(a) The authorized bandwidth (maximum permissible bandwidth of a transmission) for emission type H1D, J1D, R1D, H3E, J3E or R3E is 4 kHz. The authorized bandwidth for emission type A1D or A3E is 8 kHz. The authorized bandwidth for emission type F1D, G1D, F3E or G3E is 20 kHz.

(b) The authorized bandwidth for any emission type transmitted by an FRS unit is 12.5 kHz.

(c) The authorized bandwidth for emission type F3E or F2D transmitted by a FRS unit is 12.5 kHz.

(d) For transmitters in the LPRS:

(1) The authorized bandwidth for narrowband frequencies is 4 kHz and the channel bandwidth is 5 kHz.

(2) The channel bandwidth for standard band frequencies is 25 kHz.

(3) The channel bandwidth for extra band frequencies is 50 kHz.

(4) AMTS stations may use the 216.750–217.000 MHz band as a single 250 kHz channel so long as the signal is attenuated as specified in §95.635(c).

(e) For transmitters in the MedRadio Service:

(1) For stations operating in 402–405 MHz, the maximum authorized emission bandwidth is 300 kHz. For stations operating in 401–401.85 MHz or 405–405 MHz, the maximum authorized emission bandwidth is 100 kHz, and stations operating in 401.85–402 MHz, the maximum authorized emission bandwidth is 150 kHz.

(2) Lesser emission bandwidths may be employed, provided that the unwanted emissions are attenuated as provided in §95.635. See §§95.628(g) and 95.639(f) regarding maximum transmitter power and measurement procedures.

(3) Emission bandwidth will be determined by measuring the width of the
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Unwanted radiation.

(a) In addition to the procedures in part 2, the following requirements apply to each transmitter both with and without the connection of all attachments acceptable for use with the transmitter, such as an external speaker, microphone, power cord, antenna, etc.

(b) The power of each unwanted emission shall be less than TP as specified in the applicable paragraphs listed in the following table:

<table>
<thead>
<tr>
<th>Transmitter</th>
<th>Emission type</th>
<th>Applicable paragraphs (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMRS</td>
<td>A1D, A3E, F1D, G1D, F3E, G3E with filtering</td>
<td>(1), (3), (7).</td>
</tr>
<tr>
<td></td>
<td>A1D, A3E, F1D, G1D, F3E, G3E without filtering</td>
<td>(5), (6), (7).</td>
</tr>
<tr>
<td></td>
<td>H1D, J1D, R1D, H3E, J3E, R3E</td>
<td>(2), (4), (7).</td>
</tr>
<tr>
<td>R/C</td>
<td>F3E with filtering</td>
<td>(1), (3), (7).</td>
</tr>
<tr>
<td>27 MHz</td>
<td>As specified in § 95.631(b)</td>
<td>(1), (3), (7).</td>
</tr>
<tr>
<td>72–76 MHz</td>
<td>As specified in § 95.631(b)</td>
<td>(1), (3), (7), (10), (11), (12).</td>
</tr>
<tr>
<td>CB</td>
<td>A1D, A3E</td>
<td>(1), (3), (8), (9).</td>
</tr>
<tr>
<td>LPRS</td>
<td>H1D, J1D, R1D, H3E, J3E, R3E</td>
<td>(2), (4), (8), (9).</td>
</tr>
<tr>
<td>DSRCS–OBU</td>
<td>H1D, J1D, R1D, H3E, J3E, R3E type accepted before September 10, 1986.</td>
<td>(2), (4), (7).</td>
</tr>
</tbody>
</table>

(1) At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.

(2) At least 25 dB on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 150% of the authorized bandwidth.

(3) At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 250% of the authorized bandwidth.

(4) At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 150% up to and including 250% of the authorized bandwidth.

(5) At least $83 \log_{10}(f_d/5)\,\text{dB}$ on any frequency removed from the center of the authorized bandwidth by a displacement frequency ($f_d$ in kHz), of more than 5 kHz up to and including 10 kHz.

(6) At least $116 \log_{10}(f_d/6.1)\,\text{dB}$, or if less, $50 + 10 \log_{10}(T)\,\text{dB}$, on any frequency removed from the center of the authorized bandwidth by a displacement frequency ($f_d$ in kHz), of more than 10 kHz up to and including 250% of the authorized bandwidth.

(7) At least $43 + 10 \log_{10}(T)\,\text{dB}$ on any frequency removed from the center of the authorized bandwidth by more than 250%.