

Appendix 3

CALCULATION STANDARDS TABLE OF FREQUENCY FOR FIXED TELECOMMUNICATIONS

Frequency utilized	Calculation Formula (per station)
Center frequency < 30MHz	$\left(\frac{BW}{3kHz} \right) \times \left(\frac{W}{25 \text{ watt}} \right) \times 1,000 \times d$
30MHz \leq center frequency < 1GHz	$\left(\frac{BW}{12.5kHz} \right) \times \left(\frac{W}{25 \text{ watt}} \right) \times 5,000 \times d$
1GHz \leq center frequency < 3GHz	$\left(\frac{BW}{1 \text{ MHz}} \right) \times \left(\frac{W}{1 \text{ watt}} \right) \times 8,000 \times d$
3GHz \leq center frequency < 12GHz	$\left(\frac{BW}{1 \text{ MHz}} \right) \times \left(\frac{W}{1 \text{ watt}} \right) \times 10,000 \times d$
12GHz \leq center frequency < 23GHz	$\left(\frac{BW}{1 \text{ MHz}} \right) \times \left(\frac{W}{1 \text{ watt}} \right) \times 6,000 \times d$
23GHz \leq center frequency < 31GHz	$\left(\frac{BW}{1 \text{ MHz}} \right) \times \left(\frac{W}{1 \text{ watt}} \right) \times 4,000 \times d$
31GHz \leq center frequency < 42GHz	$\left(\frac{BW}{1 \text{ MHz}} \right) \times \left(\frac{W}{1 \text{ watt}} \right) \times 2,500 \times d$

42GHz \leq center frequency < 70GHz	$\left(\frac{BW}{1MHz}\right) \times \left(\frac{W}{1 watt}\right) \times 1,000 \times d$
70GHz \leq center frequency	$\left(\frac{BW}{1MHz}\right) \times \left(\frac{W}{1 watt}\right) \times 500 \times d$

Remarks:

1. BW: Assigned bandwidth
W: Transmission power of transmitter (watt)
d: Adjustment factor (see annex 1)
2. If the assigned bandwidth of non-profit governmental institute exceeds 20MHz, 20MHz shall be used as the calculation formula. If the assigned bandwidth of other institutes exceeds 56 MHz, 56MHz shall be used as the calculation formula.
3. If the transmission power of transmitter does not exceed 0.5W, 0.5W shall be used as the calculation formula. If the transmission power is higher than 100W, 100W shall be used.
4. The utilization fee of LMDS (Local Multipoint-Distribution System) shall be calculated per Hub respectively (charged according to the bandwidth and power; assigned bandwidth shall not be restricted by the 56 MHz limit).
5. Only the transmitter shall be charged the utilization fee; the receiving end shall not be charged.