ATSC Demonstration of Satellite and Over-the-Air HDTV Transmission

Model Station

Washington, D.C.

Satellite Downlink

Audio

D5VTR With HDTV Adapter

Video

AC-3 Audio Encoder

ATSC Encoder

Digital Transmitter

Satellite QPSK Demodulator

NBC-TV KU Band Satellite Uplink

Satellite QPSK Modulator

HD VTR

HDTV Camera

HDTV VTR

ATSC Encoder

Data Stream 79.5 Mbps

Audio

19.4 Mbps

HD Video

HD Video

HD Video

Audio

Surround Sound

Surround Sound

ATSC VSB Receiver

ATSC Decoder

DTV Channel 52 From KLAS-TV

16x9 It Screen

Living Room

16x9 Ratio

HDTV with Surround Sound

Theater

DTV Receiver

Surround Sound