INDEX OF SUBMITTED MEASURED DATA

This exhibit contains the measured data for this equipment as follows:

- EXHIBIT 6A RF Power Output (Table)
- EXHIBIT 6B Transmit Audio Response
- EXHIBIT 6C Transmit Audio Post Limiter Lowpass Filter Response
- **EXHIBIT 6D** Modulation Limiting Characteristics (4 Graphs)
 - 6D-1 Carrier Squelch Mode
 - 6D-2 Tone Private Line (TPL) Mode
 - 6D-3 Digital Private Line (DPL) Mode
 - 6D-4 Trunking Mode
- EXHIBIT 6E Occupied Bandwidth (12 Spectrum Analyzer Plots)
 - 6E-1 2500 Hz Audio Modulation Only
 - 6E-2 2500 Hz Audio and TPL Modulation
 - 6E-3 2500 Hz Audio and DPL Modulation
 - 6E-4 2500 Hz Audio and Low Speed Trunking Modulation
 - 6E-5 DTMF Modulation Only
 - 6E-6 DTMF Modulation and TPL Modulation
 - 6E-7 DTMF Modulation and DPL Modulation
 - 6E-8 DTMF Modulation and Low Speed Trunking Modulation
 - 6E-9 2000/3000 Hz FSK Data Modulation Only
 - 6E-10 2000/3000 Hz FSK Data and TPL Modulation
 - 6E-11 2000/3000 Hz FSK Data and DPL Modulation
 - 6E-12 2000/3000 Hz FSK Data and Low Speed Trunking Modulation
- **EXHIBIT 6F** Conducted Spurious Emissions (6 Graphs)
 - 6F-1 30 Watts, 217.000 MHz
 - 6F-2 30 Watts, 219.500 MHz
 - 6F-3 30 Watts, 222.000 MHz
 - 6F-4 1 Watt, 217.000 MHz
 - 6F-5 1 Watt. 219.500 MHz
 - 6F-6 1 Watt, 222.000 MHz
- EXHIBIT 6G Radiated Spurious Emissions (4 Graphs) 6G-1 – 30 Watts, 219.500 MHz, Horizontal 6G-2 – 30 Watts, 219.500 MHz, Vertical 6G-3 – 1 Watt, 219.500 MHz, Horizontal 6G-4 – 1 Watt, 219.500 MHz, Vertical
- EXHIBIT 6H Frequency Stability (2 Graphs) 6H-1 – Frequency Stability vs. Temperature 6H-2 – Frequency Stability vs. Voltage

RF OUTPUT DATA - CONDUCTED

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device, pursuant to 47 CFR 2.1033(c)(8) and 2.1046.

HIGH POWER SETTING, FREQUENCY 217.000 MHz

| Measured RF Output Power: | 30.0 Watts |
|----------------------------|-------------|
| Measured DC Voltage: | 12.57 Volts |
| Measured DC Input Current: | 5.1 Amperes |
| Measured DC Input Power: | 64.11 Watts |

LOW POWER SETTING, FREQUENCY 217.000 MHz

| Measured RF Output Power: | 1.0 Watt |
|----------------------------|-------------|
| Measured DC Voltage: | 12.72 Volts |
| Measured DC Input Current: | 1.6 Amperes |
| Measured DC Input Power: | 20.35 Watts |

HIGH POWER SETTING, FREQUENCY 219.500 MHz

| Measured RF Output Power: | 30.0 Watts |
|----------------------------|-------------|
| Measured DC Voltage: | 12.71 Volts |
| Measured DC Input Current: | 5.0 Amperes |
| Measured DC Input Power: | 63.55 Watts |

LOW POWER SETTING, FREQUENCY 219.500 MHz

| Measured RF Output Power: | 1.0 Watt |
|----------------------------|-------------|
| Measured DC Voltage: | 12.71 Volts |
| Measured DC Input Current: | 1.2 Amperes |
| Measured DC Input Power: | 15.25 Watts |

HIGH POWER SETTING, FREQUENCY 222.000 MHz

| Measured RF Output Power: | 30.0 Watts |
|----------------------------|--------------|
| Measured DC Voltage: | 12.71 Volts |
| Measured DC Input Current: | 4.75 Amperes |
| Measured DC Input Power: | 60.37 Watts |

LOW POWER SETTING, FREQUENCY 222.000 MHz

| Measured RF Output Power: | 1.0 Watt |
|----------------------------|--------------|
| Measured DC Voltage: | 12.72 Volts |
| Measured DC Input Current: | 1.21 Amperes |
| Measured DC Input Power: | 15.39 Watts |

TRANSMIT AUDIO RESPONSE



-6dB/Octave +1/-3dB

POST-LIMITER LOWPASS FILTER RESPONSE



12.5 kHz Channel Spacing

MODULATION LIMITING CHARACTERISTIC CARRIER SQUELCH MODE











MODULATION LIMITING CHARACTERISTIC TRUNKING MODE



OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, 2500 Hz TONE, TPL 250.3 Hz EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, 2500 Hz TONE, DPL 131 EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, 2500 Hz TONE, LOW SPEED TRUNKING EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, DTMF MODULATION, CARRIER SQUELCH EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, DTMF MODULATION, TPL 250.3 Hz EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, DTMF MODULATION, DPL 131 EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, DTMF MODULATION, LOW SPEED TRUNKING EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, CARRIER SQUELCH EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, TPL 250.3 Hz EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, DPL 131 EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

OCCUPIED BANDWIDTH MEASUREMENT FOR 220 MHz MOBILE S/N – XD7VW001 12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, LOW SPEED TRUNKING EMISSION MASK: D



CENTER FREQUENCY: RESOLUTION BANDWIDTH: VIDEO BANDWIDTH: SPAN: HORIZONTAL SCALE: SWEEP TIME: VERTICAL SCALE: REFERENCE LEVEL: ATTENUATION:

CONDUCTED SPURIOUS EMISSIONS HIGH POWER, 217.000 MHz



1. The conducted spurious level is plotted in dBm on the vertical axis.

2. The FCC limit for conducted spurious emissions is –13 dBm (dashed line).

3. The manufacturer's specification for conducted spurious emissions is -16 dBm.

CONDUCTED SPURIOUS EMISSIONS HIGH POWER, 219.500 MHz



1. The conducted spurious level is plotted in dBm on the vertical axis.

2. The FCC limit for conducted spurious emissions is –13 dBm (dashed line).

3. The manufacturer's specification for conducted spurious emissions is -16 dBm.

CONDUCTED SPURIOUS EMISSIONS HIGH POWER, 222.000 MHz



1. The conducted spurious level is plotted in dBm on the vertical axis.

- 2. The FCC limit for conducted spurious emissions is –13 dBm (dashed line).
- 3. The manufacturer's specification for conducted spurious emissions is -16 dBm.
- 4. No non-harmonically related conducted spurious emissions were detected.

CONDUCTED SPURIOUS EMISSIONS LOW POWER, 217.000 MHz



1. The conducted spurious level is plotted in dBm on the vertical axis.

- 2. The FCC limit for conducted spurious emissions is -13 dBm (dashed line).
- 3. The manufacturer's specification for conducted spurious emissions is -16 dBm.
- 4. No non-harmonically related conducted spurious emissions were detected.

CONDUCTED SPURIOUS EMISSIONS LOW POWER, 219.500 MHz



1. The conducted spurious level is plotted in dBm on the vertical axis.

- 2. The FCC limit for conducted spurious emissions is –13 dBm (dashed line).
- 3. The manufacturer's specification for conducted spurious emissions is -16 dBm.
- 4. No non-harmonically related conducted spurious emissions were detected.

CONDUCTED SPURIOUS EMISSIONS LOW POWER, 222.000 MHz



1. The conducted spurious level is plotted in dBm on the vertical axis.

2. The FCC limit for conducted spurious emissions is -13 dBm (dashed line).

3. The manufacturer's specification for conducted spurious emissions is -16 dBm.

RADIATED SPURIOUS EMISSIONS HIGH POWER, 219.500 MHz, HORIZONTAL POLARIZATION OUTPUT POWER = 30.0 WATTS

Model Number: CDM1550•LS+ Serial Number: XD7VW00A

| Harmonic | Frequency | Level (dBm) | Limit (dBm) |
|------------------|------------|-------------|-------------|
| | | | |
| 2 nd | 439.0 MHz | -63.7 | -13.0 |
| 3 rd | 658.5 MHz | -56.3 | -13.0 |
| 4 th | 878.0 MHz | -27.5 | -13.0 |
| 5 th | 1097.5 MHz | -59.1 | -13.0 |
| 6 th | 1317.0 MHz | -65.0 | -13.0 |
| 7 th | 1536.5 MHz | -36.0 | -13.0 |
| 8 th | 1756.0 MHz | -51.6 | -13.0 |
| 9 th | 1975.5 MHz | -74.3 | -13.0 |
| 10 th | 2195.0 MHz | -63.4 | -13.0 |



RADIATED SPURIOUS EMISSIONS HIGH POWER, 219.500 MHz, VERTICAL POLARIZATION OUTPUT POWER = 30.0 WATTS

Model Number: CDM1550•LS+ Serial Number: XD7VW00A

| Harmonic | Frequency | Level (dBm) | Limit (dBm) | |
|------------------|------------|-------------|-------------|--|
| | | | | |
| 2 nd | 439.0 MHz | -54.7 | -13.0 | |
| 3 rd | 658.5 MHz | -59.6 | -13.0 | |
| 4 th | 878.0 MHz | -17.3 | -13.0 | |
| 5 th | 1097.5 MHz | -62.0 | -13.0 | |
| 6 th | 1317.0 MHz | -60.5 | -13.0 | |
| 7 th | 1536.5 MHz | -35.6 | -13.0 | |
| 8 th | 1756.0 MHz | -43.5 | -13.0 | |
| 9 th | 1975.5 MHz | -59.6 | -13.0 | |
| 10 th | 2195.0 MHz | -46.6 | -13.0 | |



RADIATED SPURIOUS EMISSIONS HIGH POWER, 219.500 MHz, HORIZONTAL POLARIZATION OUTPUT POWER = 1.0 WATTS

Model Number: CDM1550•LS+ Serial Number: XD7VW00A

| Harmonic | Frequency | Level (dBm) | Limit (dBm) | |
|------------------|------------|-------------|-------------|--|
| | | | | |
| 2 nd | 439.0 MHz | -81.3 | -13.0 | |
| 3 rd | 658.5 MHz | -92.9 | -13.0 | |
| 4 th | 878.0 MHz | -27.5 | -13.0 | |
| 5 th | 1097.5 MHz | -65.2 | -13.0 | |
| 6 th | 1317.0 MHz | -89.1 | -13.0 | |
| 7 th | 1536.5 MHz | -54.9 | -13.0 | |
| 8 th | 1756.0 MHz | -69.5 | -13.0 | |
| 9 th | 1975.5 MHz | -67.6 | -13.0 | |
| 10 th | 2195.0 MHz | -72.3 | -13.0 | |



RADIATED SPURIOUS EMISSIONS HIGH POWER, 219.500 MHz, VERTICAL POLARIZATION OUTPUT POWER = 1.0 WATTS

Model Number: CDM1550•LS+ Serial Number: XD7VW00A

| Harmonic | Frequency | Level (dBm) | Limit (dBm) | |
|------------------|------------|-------------|-------------|--|
| | | | | |
| 2 nd | 439.0 MHz | -79.4 | -13.0 | |
| 3 rd | 658.5 MHz | -85.5 | -13.0 | |
| 4 th | 878.0 MHz | -17.3 | -13.0 | |
| 5 th | 1097.5 MHz | -92.8 | -13.0 | |
| 6 th | 1317.0 MHz | -66.0 | -13.0 | |
| 7 th | 1536.5 MHz | -60.4 | -13.0 | |
| 8 th | 1756.0 MHz | -66.5 | -13.0 | |
| 9 th | 1975.5 MHz | -69.6 | -13.0 | |
| 10 th | 2195.0 MHz | -61.8 | -13.0 | |



FREQUENCY STABILITY VS. TEMPERATURE SPECIFIED LIMITS: <u>+</u>2.5 PPM (-30 TO +60 DEGREES C)



FREQUENCY STABILITY VS. SUPPLY VOLTAGE REFERENCE 0% = 13.6 VOLTS DC



Radio Low-Line Reset Voltage: The radio resets at 7.0 volts.