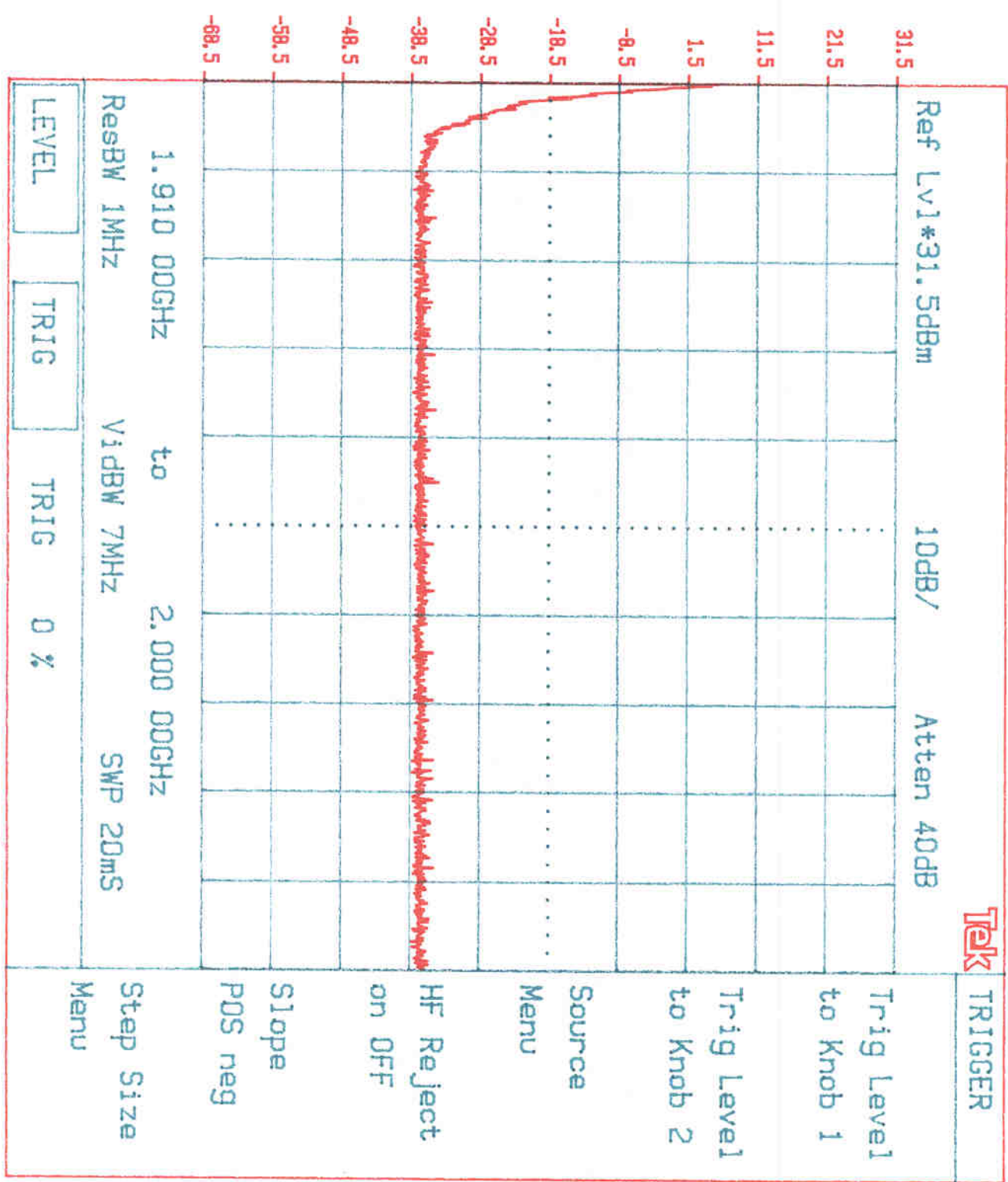
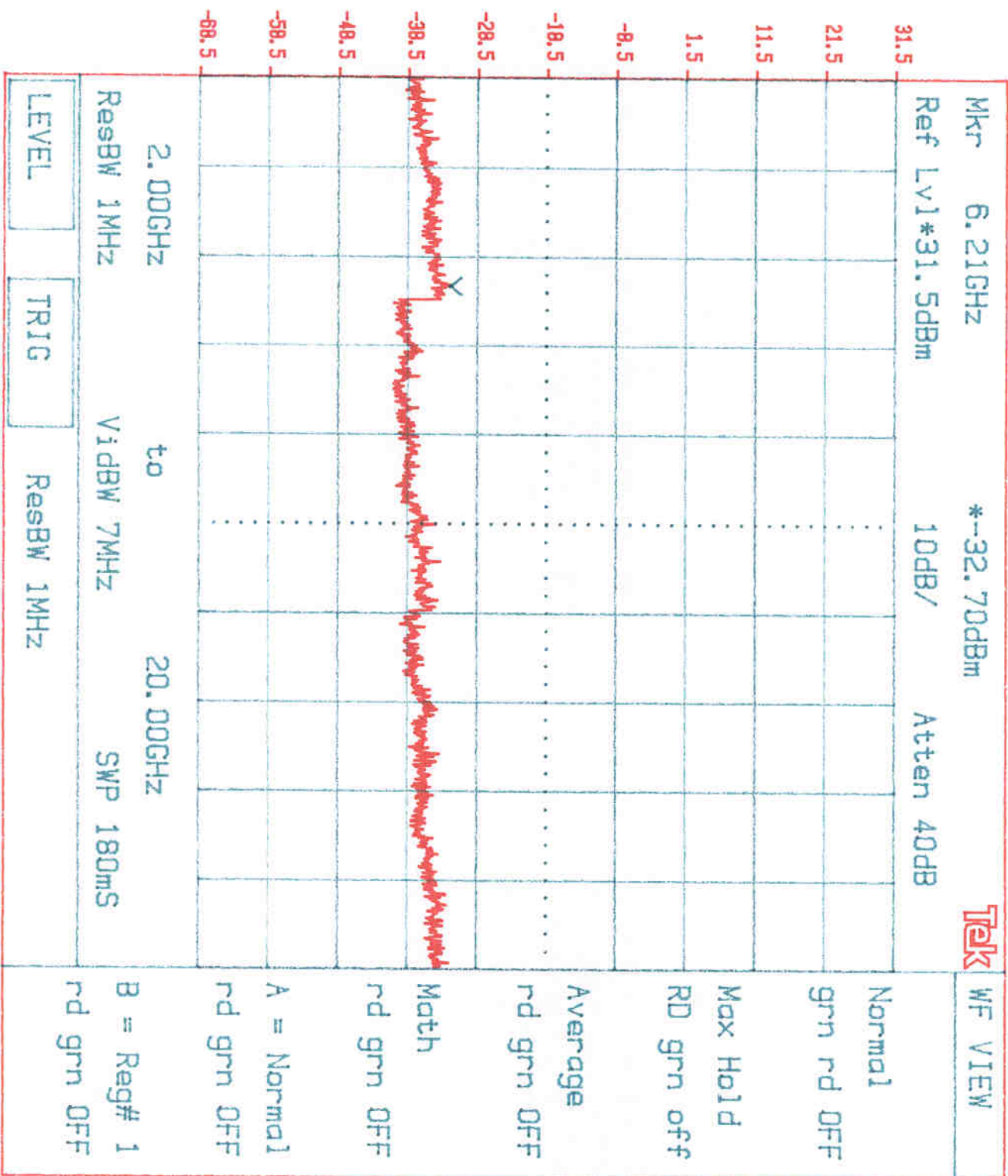




H.8



## 7 RADIATED SPURIOUS EMISSIONS

### 7.1 Test description

|              |                        |
|--------------|------------------------|
| Parameter:   | FCC §2.1053            |
| Requirement: | FCC § 24.236, § 24.238 |
| ---          | ---                    |

### 7.2 Test Procedure

The transmitter was placed on a wooden turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3 orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated, with measurement equipment RBW setting at 1 MHz.

The spurious harmonic attenuation was calculated as the difference between E in dB(uV/m) at the fundamental frequency and at the spurious emission frequency.

Spurious attenuation in dB =  $43 + 10\log_{10}(\text{Power in Watts})$

### 7.3 Test Results

Please see the following pages for:

[X] Spurious harmonic attenuation

[X] FCC Part 15.109 Radiated Emission

### 7.4 Modifications made during testing

None

### 7.5 Test instrumentation

[X] CDI B100/200/300 Biconical Antennas

[X] EMCO Bi-logcon Antenna

[X] EMCO 3115 Horn Antenna

[X] HP 8566B Spectrum Analyzer

[X] Preamplifiers

| Radiated Emissions Test Data |  |
|------------------------------|--|
|------------------------------|--|

|            |        |               |                   |            |           |        |
|------------|--------|---------------|-------------------|------------|-----------|--------|
| Company:   | Sierra | Model #:      |                   | Req.       | FCC 2.993 |        |
| EUT:       |        | S/N or FCC #: |                   | Test Dist. | 3         | meters |
| Project #: |        | Test Date:    | February 11, 2000 | TP         | 0.10      | Watt   |
| Test Mode: |        | Engineer:     | Xi Ming Y.        | Min. Attn. | 33.00     | dBc    |

|         | Antenna Used |              |        | Pre-Amp Used |           |         | Cable Used |      |         | Transducer Used |
|---------|--------------|--------------|--------|--------------|-----------|---------|------------|------|---------|-----------------|
| Number: | 2            | 14           | 21     | 0            | 8         | 13      | 0          | 0    | 12      | 0               |
| Model:  | EMCO<br>3143 | EMCO<br>3115 | 3180-9 | None         | CDI_P1000 | ACO/400 | None       | None | Grr_M+L | None            |

[illegible]

|        |                                                                         |
|--------|-------------------------------------------------------------------------|
| Notes: | a) O.C.F. = Other Correction Factor                                     |
|        | b) Insert Loss = Cable A + Cable B + Cable C + Transducer.              |
|        | c) Net = Reading + Antenna Factor - Pre-Amp + Insert, Loss.             |
|        | d) Attn. = Field Strength (Fundamental) - Field Strength (Harmonics).   |
|        | e) Negative signs (-) in Margin column signify levels below the limits. |