

**H. A. Bader, Consultants**

TLI Project: 56392

Method 8290 PCDD/PCDF Analysis (b)

Client Sample: TLI Blank

Analysis File: S020226

|                 |                      |                  |            |             |          |
|-----------------|----------------------|------------------|------------|-------------|----------|
| Client Project: | NYC WTC area testing |                  |            | Spike File: | SPMIT34W |
| Sample Matrix:  | GAUZE                | Date Received:   | //         | ICal:       | SF57121  |
| TLI ID:         | TLI Blank            | Date Extracted:  | 01/14/2002 | ConCal:     | S020224  |
|                 |                      | Date Analyzed:   | 01/16/2002 |             |          |
| Sample Size:    | 1.000                | Dilution Factor: | n/a        | % Moisture: | n/a      |
| Dry Weight:     | n/a                  | Blank File:      | S020226    | % Lipid:    | n/a      |
| GC Column:      | DB-5                 | Analyst:         | JSY        | % Solids:   | n/a      |

| Analytes             | Amt. (ng) | DL    | EMPC  | Ratio | RT    | Flags |
|----------------------|-----------|-------|-------|-------|-------|-------|
| 2,3,7,8-TCDD         | EMPC      |       | 0.008 |       |       | J_    |
| 1,2,3,7,8-PeCDD      | ND        | 0.005 |       |       |       | —     |
| 1,2,3,4,7,8-HxCDD    | ND        | 0.006 |       |       |       | —     |
| 1,2,3,6,7,8-HxCDD    | ND        | 0.006 |       |       |       | —     |
| 1,2,3,7,8,9-HxCDD    | ND        | 0.006 |       |       |       | —     |
| 1,2,3,4,6,7,8-HpCDD  | ND        | 0.008 |       |       |       | —     |
| 1,2,3,4,6,7,8,9-OCDD | ND        | 0.01  |       |       |       | —     |
| 2,3,7,8-TCDF         | 0.01      |       |       | 0.66  | 26:42 | J_    |
| 1,2,3,7,8-PeCDF      | ND        | 0.004 |       |       |       | —     |
| 2,3,4,7,8-PeCDF      | ND        | 0.004 |       |       |       | —     |
| 2,3,4,7,8-HxCDF      | ND        | 0.004 |       |       |       | —     |
| 2,3,6,7,8-HxCDF      | ND        | 0.005 |       |       |       | —     |
| 2,3,4,6,7,8-HxCDF    | ND        | 0.004 |       |       |       | —     |
| 1,2,3,7,8,9-HxCDF    | ND        | 0.005 |       |       |       | —     |
| 1,2,3,4,6,7,8-HpCDF  | ND        | 0.008 |       |       |       | —     |
| 1,2,3,4,7,8,9-HpCDF  | ND        | 0.009 |       |       |       | —     |
| 1,2,3,4,6,7,8,9-OCDF | ND        | 0.008 |       |       |       | —     |

| Totals      | Amt. (ng) | Number | DL    | EMPC | Flags |
|-------------|-----------|--------|-------|------|-------|
| Total TCDD  | EMPC      |        |       | 0.01 | —     |
| Total PeCDD | ND        |        | 0.005 |      | —     |
| Total HxCDD | EMPC      |        |       | 0.02 | —     |
| Total HpCDD | ND        |        | 0.008 |      | —     |
| Total TCDF  | 0.01      | 1      |       | 0.02 | —     |
| Total PeCDF | ND        |        | 0.004 |      | —     |
| Total HxCDF | ND        |        | 0.005 |      | —     |
| Total HpCDF | ND        |        | 0.008 |      | —     |

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# H. A. Bader, Consultants

TLI Project: 56392  
 Sample: TLI Blank

Toxicity Equivalents Report  
 Analysis File: S020226

|                 |                      |                  |          |             |          |
|-----------------|----------------------|------------------|----------|-------------|----------|
| Client Project: | NYC WTC area testing |                  |          | Spike File: | SPMIT34W |
| Sample Matrix:  | GAUZE                | Date Received:   | 01/12/02 | ICal:       | SF57121  |
| TLI ID:         | TLI Blank            | Date Extracted:  | 01/14/02 | ConCal:     | S020224  |
|                 |                      | Date Analyzed:   | 01/16/02 |             |          |
| Sample Size:    | 1.000                | Dilution Factor: | 1        | % Moisture: | n/a      |
| Dry Weight:     | n/a                  | Blank File:      | S020226  | % Lipid:    | n/a      |
| GC Column:      | DB-5                 | Analyst:         | JSY      | % Solids:   | n/a      |

| Analytes             | Amt. (ng) | TEF |       |   | Equivalent |
|----------------------|-----------|-----|-------|---|------------|
| 2,3,7,8-TCDD         | {0.008}   | x   | 1.    | = | 0.008      |
| 1,2,3,7,8-PeCDD      | {0.005}   | x   | 0.5   | = | 0.003      |
| 1,2,3,4,7,8-HxCDD    | {0.006}   | x   | 0.1   | = | 0.0006     |
| 1,2,3,6,7,8-HxCDD    | {0.006}   | x   | 0.1   | = | 0.0006     |
| 1,2,3,7,8,9-HxCDD    | {0.006}   | x   | 0.1   | = | 0.0006     |
| 1,2,3,4,6,7,8-HpCDD  | {0.008}   | x   | 0.01  | = | 0.00008    |
| 1,2,3,4,6,7,8,9-OCDD | {0.01}    | x   | 0.001 | = | 0.00001    |
| TOTAL PCDD           |           |     |       |   | 0.013      |
| 2,3,7,8-TCDF         | 0.01      | x   | 0.1   | = | 0.001      |
| 1,2,3,7,8-PeCDF      | {0.004}   | x   | 0.05  | = | 0.0002     |
| 2,3,4,7,8-PeCDF      | {0.004}   | x   | 0.5   | = | 0.002      |
| 1,2,3,4,7,8-HxCDF    | {0.004}   | x   | 0.1   | = | 0.0004     |
| 1,2,3,6,7,8-HxCDF    | {0.005}   | x   | 0.1   | = | 0.0005     |
| 1,2,3,4,6,7,8-HxCDF  | {0.004}   | x   | 0.1   | = | 0.0004     |
| 1,2,3,7,8,9-HxCDF    | {0.005}   | x   | 0.1   | = | 0.0005     |
| 1,2,3,4,6,7,8-HpCDF  | {0.008}   | x   | 0.01  | = | 0.00008    |
| 1,2,3,4,7,8,9-HpCDF  | {0.009}   | x   | 0.01  | = | 0.00009    |
| 1,2,3,4,6,7,8,9-OCDF | {0.008}   | x   | 0.001 | = | 0.000008   |
| TOTAL PCDF           |           |     |       |   | 0.005      |

Total EPA TEFs, 1989a: 0.018 ng

[...] indicates that the value is that of an EMPC.

{...} indicates that the value is that of a Detection Limit.

Initial .....Date....

Data Review By:    

Calculated Noise Height: 0.13

: Total Area for each peak with an ion abundance ratio outside  
ratio limits has been recalculated according to method requirements.

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01/16/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/

M\_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flags.

| TCDF       |       | 0.65-0.89     |          | 0.880-1.070 |        |       |                     |      |
|------------|-------|---------------|----------|-------------|--------|-------|---------------------|------|
| 304-306    | DC NL | Height        | 0.21     | 0.07        | 0.14   |       |                     |      |
|            |       | 25:59 RO 1.36 | 3.31     | 2.55        | 1.87   | 0.974 |                     | J    |
|            | DC SN | 26:18 RO 0.45 | 0.57     |             |        | 0.986 | 1278-TCDF           | AN   |
|            |       | 26:42 0.66    | 3.65     | 1.45        | 2.20   | 1.001 | 2378-TCDF           | AN J |
|            | DC SN | 27:34 RO 1.03 | 1.24     |             |        | 1.033 |                     |      |
| 304-306    |       | 2 Peaks       | 6.96     |             |        |       |                     |      |
| 13C12-TCDF |       | 0.65-0.89     |          | 0.963-1.037 |        |       |                     |      |
| 316-318    | DC NL | Height        | 0.24     | 0.06        | 0.18   |       |                     |      |
|            | DC WL | 25:40 0.71    | 2.98     |             |        | 0.962 |                     |      |
|            |       | 25:58 RO 0.50 | 1.22     | 0.53        | 1.07   | 0.973 |                     |      |
|            |       | 26:17 0.65    | 6.12     | 2.40        | 3.72   | 0.985 |                     |      |
|            |       | 26:41 0.73    | 1,302.75 | 548.06      | 754.69 | 1.000 | 13C12-2378-TCDF ISO |      |
|            |       | Height        | 358.38   | 153.31      | 205.07 |       |                     |      |
| 316-318    |       | 3 Peaks       | 1,310.09 |             |        |       |                     |      |

----- Above: TCDF / TCDD Follows -----

| TCDD      |       | 0.65-0.89     |      | 0.904-1.041 |      |       |           |      |
|-----------|-------|---------------|------|-------------|------|-------|-----------|------|
| 320-322   | DC NL | Height        | 0.13 | 0.05        | 0.08 |       |           |      |
|           | DC SN | 24:48 RO 0.04 | 0.23 |             |      | 0.906 |           |      |
|           | DC SN | 25:26 RO 0.54 | 0.34 |             |      | 0.929 |           |      |
|           | DC SN | 25:36 RO 0.08 | 0.14 |             |      | 0.935 |           |      |
|           | D SN  | 26:40 RO 1.91 | 2.50 |             |      | 0.974 |           |      |
|           | DC SN | 26:49 RO 1.86 | 0.39 |             |      | 0.979 |           |      |
|           | DC SN | 27:04 RO 0.50 | 0.18 |             |      | 0.988 |           |      |
|           |       | 27:24 RO 1.13 | 1.86 | 1.19        | 1.05 | 1.001 | 2378-TCDD | AN J |
|           |       | 27:33 RO 1.10 | 1.20 | 0.75        | 0.68 | 1.006 |           | J    |
|           | DC SN | 27:43 RO 2.18 | 0.19 |             |      | 1.012 |           |      |
|           | DC SN | 28:21 RO 0.54 | 0.60 |             |      | 1.035 |           |      |
|           | DC SN | 28:31 RO 0.57 | 0.18 |             |      | 1.041 |           |      |
|           | DC WH | 28:39 RO 1.34 | 0.51 |             |      | 1.046 |           |      |
| 320-322   |       | 2 Peaks       | 3.06 |             |      |       |           |      |
| 37C1-TCDD |       | 0.927-1.073   |      |             |      |       |           |      |
| 328       | DC NL | Height        | 0.04 | 0.04        |      |       |           |      |
|           | DC WL | 24:47         | 0.10 |             |      | 0.905 |           |      |
|           | DC WL | 24:59         | 0.12 |             |      | 0.912 |           |      |
|           | DC WL | 25:10         | 0.25 |             |      | 0.919 |           |      |
|           | DC WL | 25:16         | 0.10 |             |      | 0.923 |           |      |
|           | DC WL | 25:20         | 0.19 |             |      | 0.925 |           |      |
|           | DC SN | 25:32         | 0.28 |             |      | 0.932 |           |      |
|           | DC SN | 25:42         | 0.08 |             |      | 0.939 |           |      |

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01/16/2002 Matched GC Peaks / Ratio / Ret. Time

## Compound/

..... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name., ID., Flags.

|     |    |        |  |       |       |  |       |           |     |
|-----|----|--------|--|-------|-------|--|-------|-----------|-----|
| DC  | SN | 25:49  |  | 0.44  |       |  | 0.943 |           |     |
| DC  | SN | 26:14  |  | 0.14  |       |  | 0.958 |           |     |
| DC  | SN | 26:20  |  | 0.16  |       |  | 0.962 |           |     |
| DC  | SN | 26:26  |  | 0.07  |       |  | 0.965 |           |     |
| DC  | SN | 26:39  |  | 0.04  |       |  | 0.973 |           |     |
| DC  | SN | 26:46  |  | 0.17  |       |  | 0.977 |           |     |
| DC  | SN | 27:03  |  | 0.20  |       |  | 0.988 |           |     |
| DC  | SN | 27:10  |  | 0.11  |       |  | 0.992 |           |     |
|     |    | 27:23  |  | 81.98 | 81.98 |  | 1.000 | 37C1-TCDD | CLS |
| DC  | SN | 27:35  |  | 0.28  |       |  | 1.007 |           |     |
| DC  | SN | 27:44  |  | 0.15  |       |  | 1.013 |           |     |
| DC  | SN | 27:52  |  | 0.15  |       |  | 1.018 |           |     |
| DC  | SN | 28:03  |  | 0.10  |       |  | 1.024 |           |     |
| DC  | SN | 28:30  |  | 0.10  |       |  | 1.041 |           |     |
| DC  | SN | 28:36  |  | 0.18  |       |  | 1.044 |           |     |
| DC  | SN | 28:45  |  | 0.16  |       |  | 1.050 |           |     |
| 328 |    | 1 Peak |  | 81.98 |       |  |       |           |     |

|            |    |         |           |          |        |  |             |       |                     |
|------------|----|---------|-----------|----------|--------|--|-------------|-------|---------------------|
| 13C12-TCDD |    |         | 0.65-0.89 |          |        |  | 0.927-1.073 |       |                     |
| 332-334    | DC | NL      | Height    | 0.39     | 0.31   |  | 0.08        |       |                     |
|            |    | 26:15   | 0.87      | 1.72     | 0.80   |  | 0.92        | 0.959 |                     |
|            |    | 27:12   | 0.80      | 1,039.29 | 463.32 |  | 575.97      | 0.993 | 13C12-1234-TCDD RS1 |
|            |    | 27:23   | 0.80      | 988.89   | 438.79 |  | 550.10      | 1.000 | 13C12-2378-TCDD IS1 |
|            |    | Height  |           | 281.85   | 127.16 |  | 154.69      |       |                     |
| 332-334    |    | 3 Peaks |           | 2,029.90 |        |  |             |       |                     |

----- Above: TCDD / PeCDF Follows -----

|         |    |         |           |      |      |  |             |  |  |
|---------|----|---------|-----------|------|------|--|-------------|--|--|
| PeCDF   |    |         | 1.32-1.78 |      |      |  | 0.931-1.058 |  |  |
| 10-342  | DC | NL      | Height    | 0.10 | 0.05 |  | 0.05        |  |  |
|         | DC | SN      | 28:35     | 1.59 | 0.88 |  | 0.937       |  |  |
|         | DC | SN      | 29:24 RO  | 2.00 | 0.13 |  | 0.963       |  |  |
|         | DC | SN      | 29:32 RO  | 0.39 | 0.18 |  | 0.968       |  |  |
|         | DC | SN      | 29:43 RO  | 2.63 | 0.20 |  | 0.974       |  |  |
|         | DC | SN      | 30:19 RO  | 0.12 | 0.07 |  | 0.993       |  |  |
|         | DC | SN      | 30:30     | 1.76 | 0.58 |  | 0.999       |  |  |
|         | DC | SN      | 30:43 RO  | 1.79 | 0.36 |  | 1.007       |  |  |
|         | DC | SN      | 30:48 RO  | 0.71 | 0.33 |  | 1.009       |  |  |
|         | DC | SN      | 31:25 RO  | 0.31 | 0.18 |  | 1.029       |  |  |
|         | DC | SN      | 32:09 RO  | 1.13 | 0.79 |  | 1.054       |  |  |
| 340-342 |    | 0 Peaks |           | 0.00 |      |  |             |  |  |

|             |    |          |           |          |        |  |             |       |                      |
|-------------|----|----------|-----------|----------|--------|--|-------------|-------|----------------------|
| 13C12-PeCDF |    |          | 1.32-1.78 |          |        |  | 0.869-1.131 |       |                      |
| 352-354     | DC | NL       | Height    | 0.08     | 0.03   |  | 0.05        |       |                      |
|             |    | 29:42    | 1.71      | 2.55     | 1.61   |  | 0.94        | 0.973 |                      |
|             |    | 30:09    | 1.44      | 2.88     | 1.70   |  | 1.18        | 0.988 |                      |
|             |    | 30:31    | 1.49      | 1,090.98 | 653.40 |  | 437.58      | 1.000 | 13C12-PeCDF 123 IS2  |
|             |    | Height   |           | 340.75   | 203.77 |  | 136.98      |       |                      |
|             |    | 30:48    | 1.33      | 7.41     | 4.23   |  | 3.18        | 1.009 |                      |
|             |    | 31:12    | 1.49      | 1,109.44 | 664.36 |  | 445.08      | 1.022 | 13C12-PeCDF 214 SUR1 |
|             |    | 31:32 RO | 0.78      | 1.89     | 1.15   |  | 1.48        | 1.033 |                      |
|             |    | 32:09    | 1.46      | 9.77     | 5.80   |  | 3.97        | 1.054 |                      |

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Page No. 3 Listing of S020226B.dbf  
01/16/2002 Matched GC Peaks / Ratio / Ret. Time

## Compound/

..... QC Log Omit Why .. RT. OK Ratio Total Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel RT Compound Name .. ID .. Flags.

352-354 7 Peaks 2,224.92

----- Above: PeCDF / PeCDD Follows -----

| PeCDD   |                | 1.32-1.78 |      |      | 0.940-1.021 |
|---------|----------------|-----------|------|------|-------------|
| 356-358 | DC NL          | Height    | 0.08 | 0.05 | 0.03        |
|         | DC SN 29:46 RO | 1.00      | 1.10 |      | 0.944       |
|         | DC SN 29:57 RO | 5.25      | 0.10 |      | 0.950       |
|         | DC SN 30:11    | 1.38      | 0.19 |      | 0.957       |
|         | DC SN 30:17 RO | 2.91      | 0.28 |      | 0.960       |
|         | DC SN 30:30 RO | 3.60      | 1.20 |      | 0.967       |
|         | DC SN 31:02 RO | 0.94      | 0.28 |      | 0.984       |
|         | DC SN 31:12 RO | 4.50      | 0.97 |      | 0.989       |
|         | DC SN 32:02 RO | 2.88      | 0.43 |      | 1.016       |
|         | DC WH 32:14 RO | 1.80      | 0.38 |      | 1.022       |
|         | DC WH 32:28 RO | 0.91      | 0.53 |      | 1.030       |
| 356-358 | 0 Peaks        |           | 0.00 |      |             |

| 13C12-PeCDD |                | 1.32-1.78 |        |        | 0.873-1.127                             |
|-------------|----------------|-----------|--------|--------|-----------------------------------------|
| 368-370     | DC NL          | Height    | 0.13   | 0.10   | 0.03                                    |
|             | DC SN 30:29 RO | 2.20      | 1.15   |        | 0.967                                   |
|             |                | 30:37     | 1.65   | 1.65   | 1.00 0.971                              |
|             |                | 31:32     | 1.48   | 714.19 | 426.05 288.14 1.000 13C12-PeCDD 123 IS3 |
|             |                | Height    | 234.51 | 140.27 | 94.24                                   |
|             | DC SN 31:55 RO | 1.08      | 1.35   |        | 1.012                                   |
| 368-370     | 2 Peaks        |           | 716.84 |        |                                         |

----- Above: PeCDD / HxCDF Follows -----

| HxCDF   |                | 1.05-1.43 |      |      | 0.964-1.045 |
|---------|----------------|-----------|------|------|-------------|
| 374-376 | DC NL          | Height    | 0.42 | 0.25 | 0.17        |
|         | DC SN 33:40 RO | 2.23      | 0.29 |      | 0.990       |
|         | DC SN 35:02 RO | 1.59      | 1.03 |      | 1.030       |
| 374-376 | 0 Peaks        |           | 0.00 |      |             |

| 13C12-HxCDF |                | 0.43-0.59 |          |          | 0.882-1.118                              |
|-------------|----------------|-----------|----------|----------|------------------------------------------|
| 384-386     | DC NL          | Height    | 0.55     | 0.25     | 0.30                                     |
|             |                | 33:54     | 0.49     | 686.09   | 225.43 460.66 0.997 13C12-HxCDF 478 SUR2 |
|             |                | 34:01     | 0.49     | 804.18   | 265.22 538.96 1.000 13C12-HxCDF 678 IS4  |
|             |                | Height    | 263.74   | 87.89    | 175.85                                   |
|             |                | 34:30     | 0.50     | 1,037.63 | 345.36 692.27 1.014 13C12-HxCDF 234 ALT2 |
|             |                | 34:42 RO  | 0.41     | 3.08     | 1.04 2.54 1.020                          |
|             | DC SN 34:53 RO | 0.36      | 0.95     |          | 1.025                                    |
|             | DC SN 35:02 RO | 0.17      | 0.47     |          | 1.030                                    |
|             |                | 35:18     | 0.50     | 793.42   | 263.10 530.32 1.038 13C12-HxCDF 789 ALT1 |
| 384-386     | 5 Peaks        |           | 3,324.40 |          |                                          |

----- Above: HxCDF / HxCDD Follows -----

| HxCDD   |                | 1.05-1.43 |      |      | 0.958-1.012 |
|---------|----------------|-----------|------|------|-------------|
| 390-392 | DC NL          | Height    | 0.20 | 0.10 | 0.10        |
|         | DC SN 33:27 RO | 1.68      | 0.43 |      | 0.964       |

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Page No. 4 Listing of S020226B.dbf  
01/16/2002 Matched GC Peaks / Ratio / Ret. Time

## Compound/

..... QC Log Omit Why .. RT. OK Ratio Total Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel. RT Compound Name... ID... Flags.

|             |    |    |           |      |          |        |             |              |                 |      |
|-------------|----|----|-----------|------|----------|--------|-------------|--------------|-----------------|------|
|             |    |    | 33:55 RO  | 2.85 | 1.05     | 1.34   | 0.47        | 0.977        |                 | J    |
|             |    |    | 34:00 RO  | 3.46 | 1.12     | 1.73   | 0.50        | 0.980        |                 | J    |
|             |    |    | 34:31 RO  | 3.83 | 1.34     | 2.30   | 0.60        | 0.995        |                 | J    |
|             | DC | SN | 35:00 RO  | 2.53 | 0.43     |        | 1.009       | 123789-HxCDD | AN              |      |
|             | DC | WH | 35:17 RO  | 3.65 | 1.08     |        | 1.017       |              |                 |      |
|             | DC | WH | 35:30 RO  | 0.38 | 0.09     |        | 1.023       |              |                 |      |
| 390-392     |    |    | 3 Peaks   |      | 3.51     |        |             |              |                 |      |
| 13C12-HxCDD |    |    | 1.05-1.43 |      |          |        | 0.971-1.029 |              |                 |      |
| 402-404     | DC | NL | Height    |      | 0.16     | 0.06   | 0.10        |              |                 |      |
|             |    |    | 34:04     | 1.38 | 1.88     | 1.09   | 0.79        | 0.982        |                 |      |
|             |    |    | 34:37     | 1.21 | 633.48   | 347.45 | 286.03      | 0.998        | 13C12-HxCDD 478 | SUR3 |
|             |    |    | 34:42     | 1.21 | 723.03   | 395.36 | 327.67      | 1.000        | 13C12-HxCDD 678 | IS5  |
|             |    |    | Height    |      | 220.36   | 120.78 | 99.58       |              |                 |      |
|             |    |    | 35:01     | 1.20 | 726.66   | 396.04 | 330.62      | 1.009        | 13C12-HxCDD 789 | RS2  |
|             |    |    | 35:17 RO  | 0.88 | 1.59     | 0.88   | 1.00        | 1.017        |                 |      |
| 402-404     |    |    | 5 Peaks   |      | 2,086.64 |        |             |              |                 |      |

----- Above: HxCDD / HpCDF Follows -----

|             |    |    |           |      |          |        |             |               |                 |      |
|-------------|----|----|-----------|------|----------|--------|-------------|---------------|-----------------|------|
| HpCDF       |    |    | 0.88-1.20 |      |          |        | 0.995-1.047 |               |                 |      |
| 408-410     | DC | NL | Height    |      | 0.11     | 0.06   | 0.05        |               |                 |      |
|             | DC | SN | 36:58 RO  | 1.31 | 0.86     |        | 1.000       | 1234678-HpCDF | AN              |      |
|             | DC | SN | 37:32 RO  | 2.67 | 0.12     |        | 1.016       |               |                 |      |
|             | DC | SN | 38:00 RO  | 5.50 | 0.08     |        | 1.028       |               |                 |      |
| 408-410     |    |    | 0 Peaks   |      | 0.00     |        |             |               |                 |      |
| 13C12-HpCDF |    |    | 0.37-0.51 |      |          |        | 0.946-1.108 |               |                 |      |
| 418-420     | DC | NL | Height    |      | 0.16     | 0.08   | 0.08        |               |                 |      |
|             |    |    | 36:57     | 0.42 | 440.64   | 130.79 | 309.85      | 1.000         | 13C12-HpCDF 678 | IS6  |
|             |    |    | Height    |      | 122.53   | 36.52  | 86.01       |               |                 |      |
|             | DC | SN | 38:03     | 0.41 | 0.55     |        | 1.030       |               |                 |      |
|             |    |    | 38:32     | 0.42 | 571.64   | 169.58 | 402.06      | 1.043         | 13C12-HpCDF 789 | SUR4 |
| 418-420     |    |    | 2 Peaks   |      | 1,012.28 |        |             |               |                 |      |

----- Above: HpCDF / HpCDD Follows -----

|             |    |    |           |      |        |        |             |               |                 |     |
|-------------|----|----|-----------|------|--------|--------|-------------|---------------|-----------------|-----|
| HpCDD       |    |    | 0.88-1.20 |      |        |        | 0.975-1.005 |               |                 |     |
| 424-426     | DC | NL | Height    |      | 0.10   | 0.06   | 0.04        |               |                 |     |
|             | DC | SN | 37:14     | 0.97 | 0.69   |        | 0.979       |               |                 |     |
|             | DC | SN | 37:31 RO  | 2.33 | 0.06   |        | 0.987       |               |                 |     |
|             | DC | SN | 37:46 RO  | 0.50 | 0.20   |        | 0.993       |               |                 |     |
|             | DC | SN | 38:01 RO  | 1.89 | 0.55   |        | 1.000       | 1234678-HpCDD | AN              |     |
|             | DC | WH | 38:33 RO  | 1.74 | 2.77   |        | 1.014       |               |                 |     |
| 424-426     |    |    | 0 Peaks   |      | 0.00   |        |             |               |                 |     |
| 13C12-HpCDD |    |    | 0.88-1.20 |      |        |        | 0.974-1.026 |               |                 |     |
| 436-438     | DC | NL | Height    |      | 0.22   | 0.14   | 0.08        |               |                 |     |
|             |    |    | 37:16     | 1.15 | 1.16   | 0.62   | 0.54        | 0.980         |                 |     |
|             |    |    | 38:01     | 1.01 | 631.49 | 316.86 | 314.63      | 1.000         | 13C12-HpCDD 678 | IS7 |
|             |    |    | Height    |      | 164.26 | 32.53  | 81.73       |               |                 |     |
| 436-438     |    |    | 2 Peaks   |      | 632.65 |        |             |               |                 |     |

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Page No. 5 Listing of S020226B.dbf  
01/16/2002 Matched GC Peaks / Ratio / Ret. Time

Found/

... QC Log Omit Why ..RT. OK Ratio Total Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound Name.. ID.. Flags.

----- Above: HpCDD / Octa-CDD and CDF Follows -----

| OCDF       | DC | NL | Height    | 0.13     | 0.06     | 0.07   | 0.904-1.096 |       |            |
|------------|----|----|-----------|----------|----------|--------|-------------|-------|------------|
| 442-444    | DC | NL | Height    | 0.13     | 0.06     | 0.07   | 0.897       |       |            |
|            | DC | WL | 37:29     | 0.81     | 0.38     |        | 0.910       |       |            |
|            | DC | SN | 38:01     | RO 0.52  | 0.76     |        | 0.923       |       |            |
|            | DC | SN | 38:32     | RO 4.50  | 0.19     |        | 0.941       |       |            |
|            | DC | SN | 39:18     | RO 0.61  | 0.30     |        | 0.945       |       |            |
|            | DC | SN | 39:28     | RO 1.64  | 0.26     |        | 0.948       |       |            |
|            | DC | SN | 39:35     | RO 1.67  | 0.11     |        | 0.951       |       |            |
|            | DC | SN | 39:42     | RO 0.67  | 0.21     |        | 0.997       |       |            |
|            | DC | SN | 41:38     | RO 0.14  | 0.13     |        | 1.000       |       |            |
|            | DC | SN | 41:45     | RO 1.94  | 0.30     |        | 1.005       |       |            |
|            | DC | SN | 41:58     | RO 0.36  | 0.64     |        | 1.024       |       |            |
|            | DC | SN | 42:47     | RO 0.53  | 0.34     |        | 1.030       |       |            |
|            | DC | SN | 43:02     | RO 1.88  | 0.30     |        | 1.046       |       |            |
|            | DC | SN | 43:41     | RO 1.75  | 0.15     |        | 1.047       |       |            |
|            | DC | SN | 43:44     | RO 1.14  | 0.13     |        |             |       |            |
| 442-444    |    |    | 0 Peaks   | 0.00     |          |        |             |       |            |
| OCDD       |    |    | 0.76-1.02 |          |          |        | 0.904-1.096 |       |            |
| 458-460    | DC | NL | Height    | 0.14     | 0.07     | 0.07   |             |       |            |
|            | DC | SN | 41:48     | RO 1.69  | 0.98     |        | 1.001       | OCDD  | AN         |
|            | DC | SN | 42:04     | RO 3.25  | 0.08     |        | 1.007       |       |            |
|            | DC | SN | 42:13     | RO 0.44  | 0.08     |        | 1.011       |       |            |
| 458-460    |    |    | 0 Peaks   | 0.00     |          |        |             |       |            |
| 13C12-OCDD |    |    | 0.76-1.02 |          |          |        | 0.996-1.004 |       |            |
| 470-472    | DC | NL | Height    | 0.20     | 0.11     | 0.09   |             |       |            |
|            |    |    | 41:46     | 0.85     | 1,071.04 | 493.18 | 577.86      | 1.000 | 13C12-OCDD |
|            |    |    | Height    | 234.47   | 107.43   | 127.04 |             |       |            |
| 470-472    |    |    | 1 Peak    | 1.071.04 |          |        |             |       |            |

Column Description..... "Why" Code Description..... QC Log Desc.....

|        |                          |                                 |                      |
|--------|--------------------------|---------------------------------|----------------------|
| M_Z    | -Nominal Ion Mass(es)    | WL-Below Retention Time Window  | A-Peak Added         |
| ..RT.  | -Retention Time (mm:ss)  | WH-Above Retention Time Window  | K-Peak Kept          |
| Rat.1  | -Ratio of M/M+2 Ions     | SN-Below Signal to Noise Level  | D-Peak Deleted       |
| OK     | -RO=Ratio Outside Limits | <M-Below Method Detection Limit | T-Time Changed       |
| Rel.RT | -Relative Retention Time | NL-Channel Specific Noise Level | M-Peak Area Changed  |
|        |                          |                                 | N-Name Changed       |
|        |                          |                                 | X-Ether Interference |

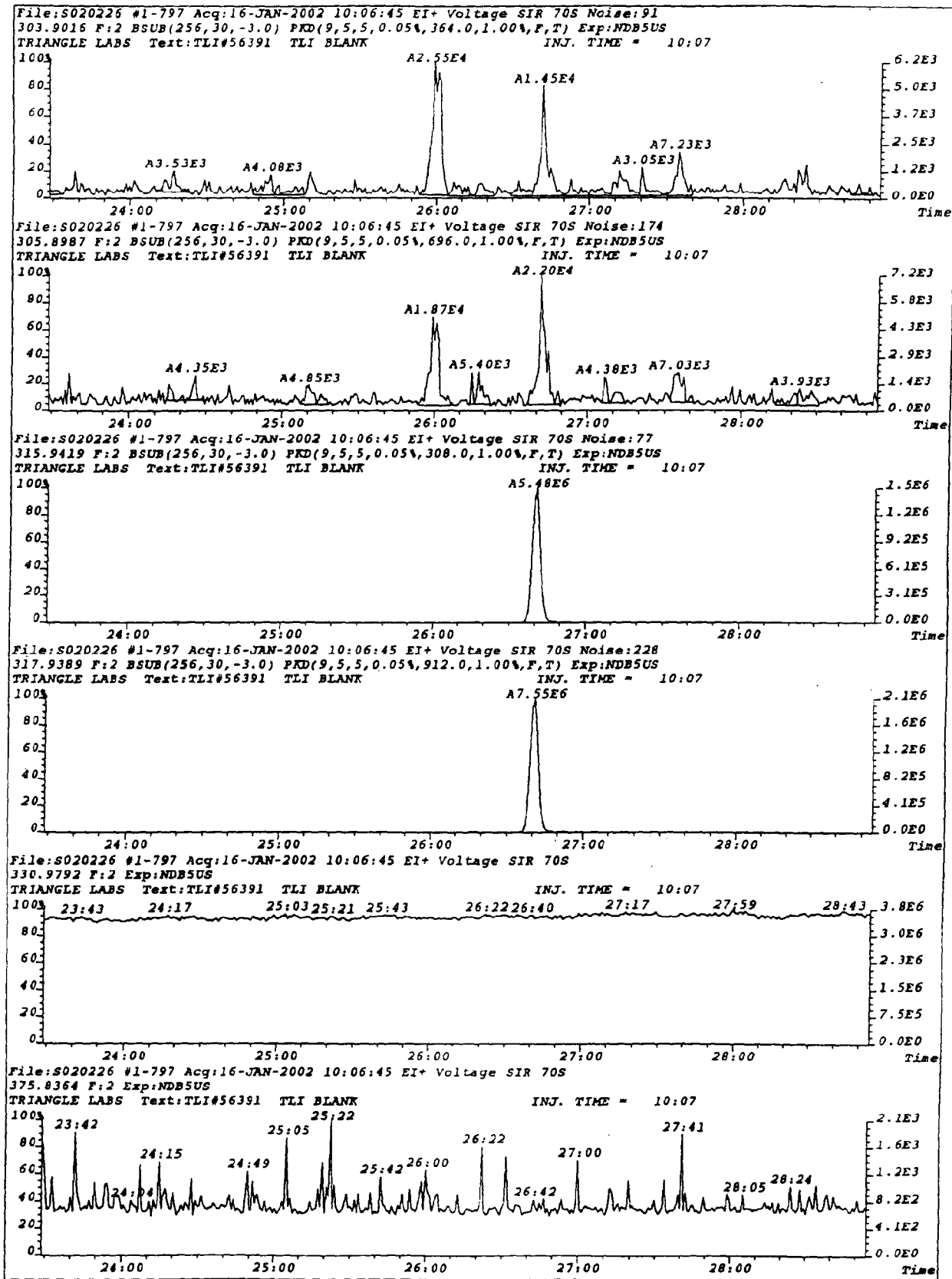
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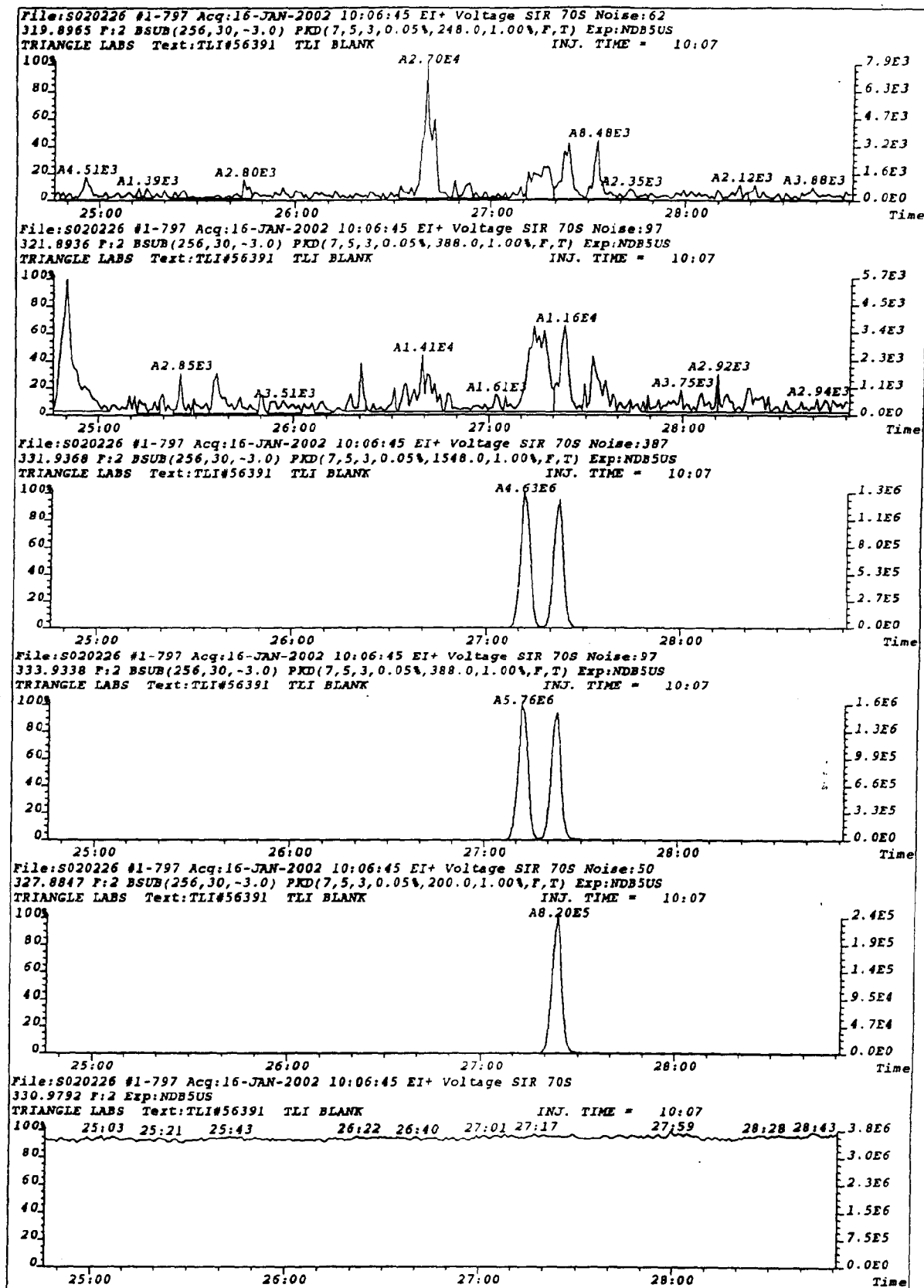
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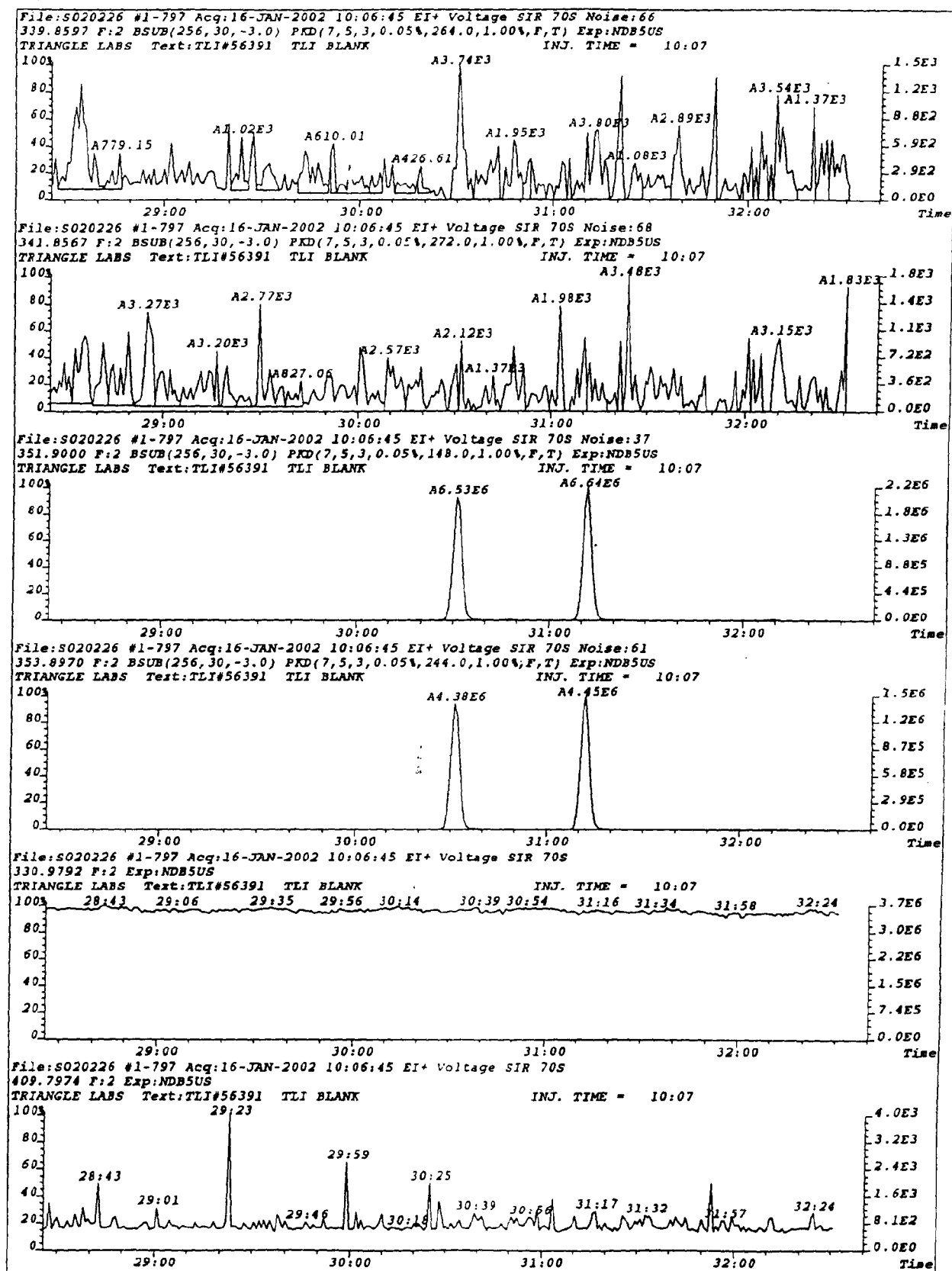
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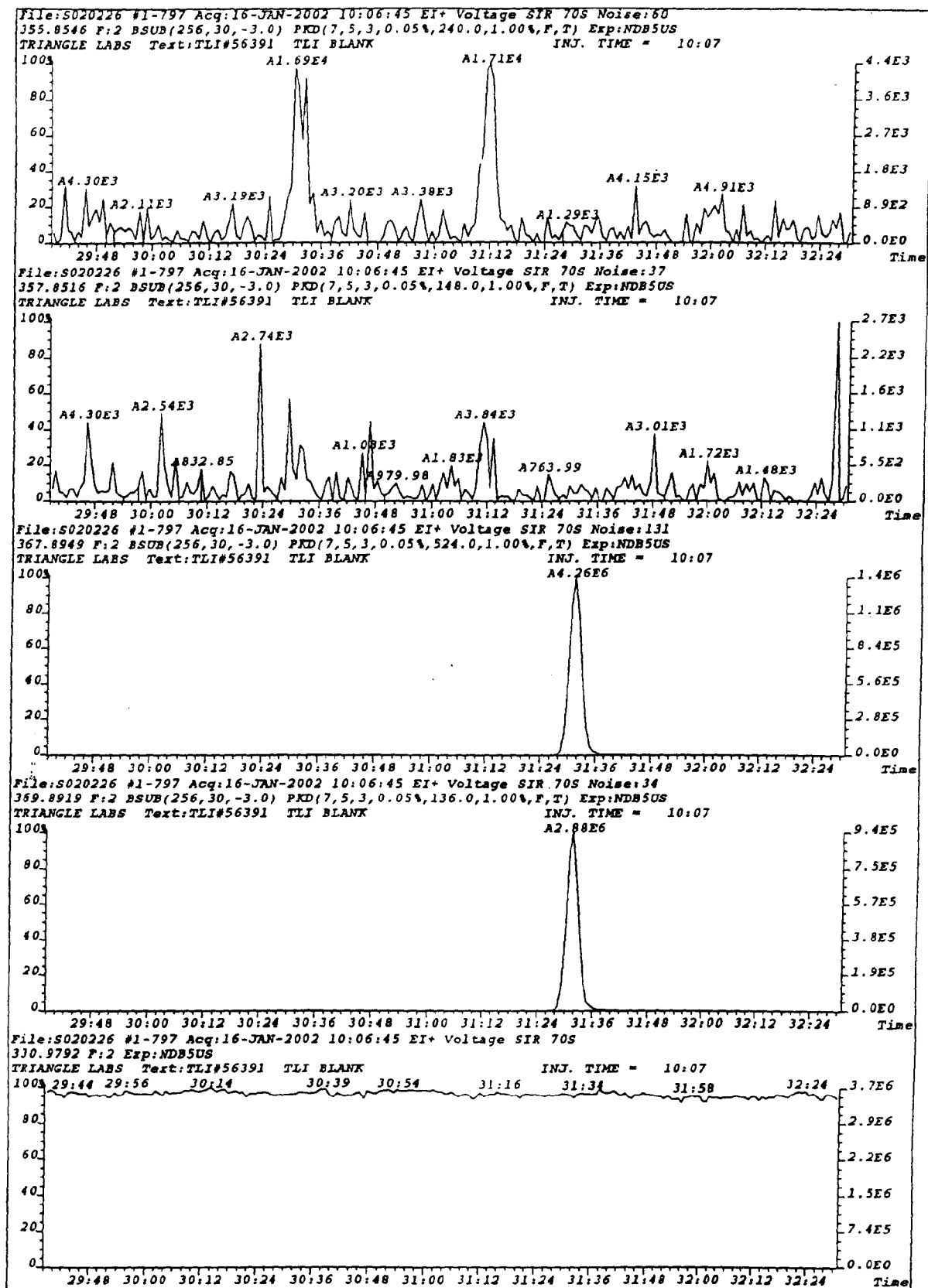
48

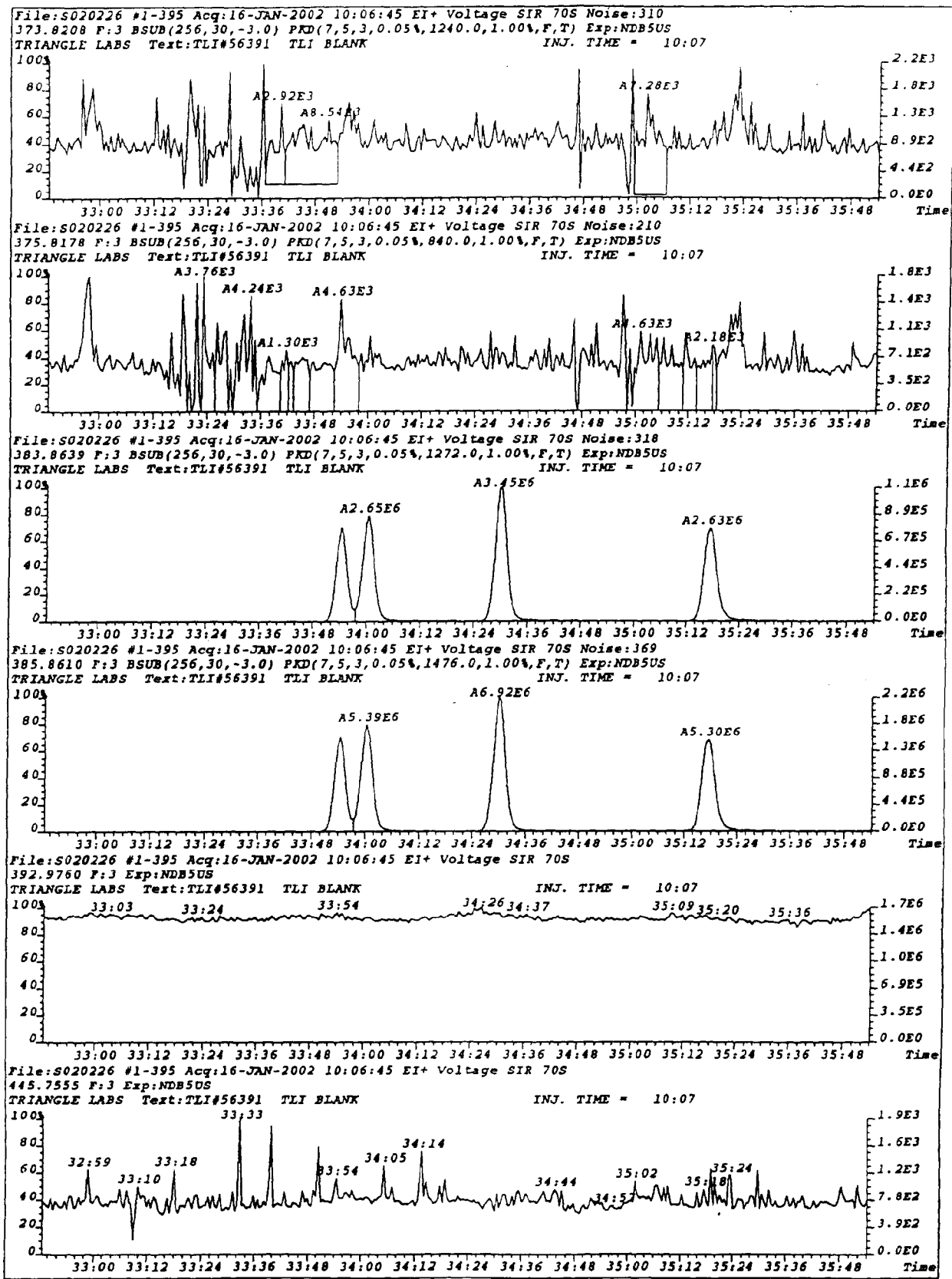
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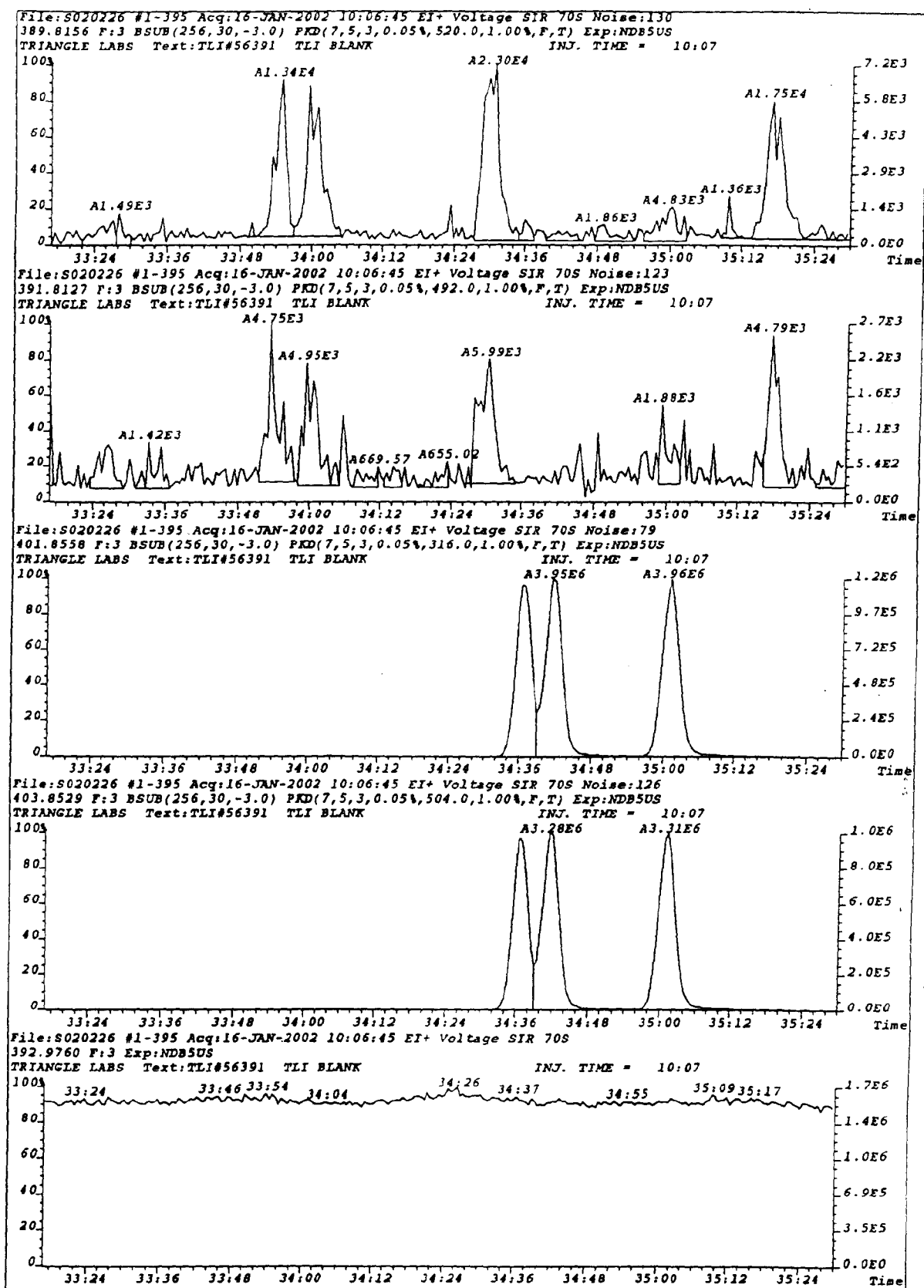


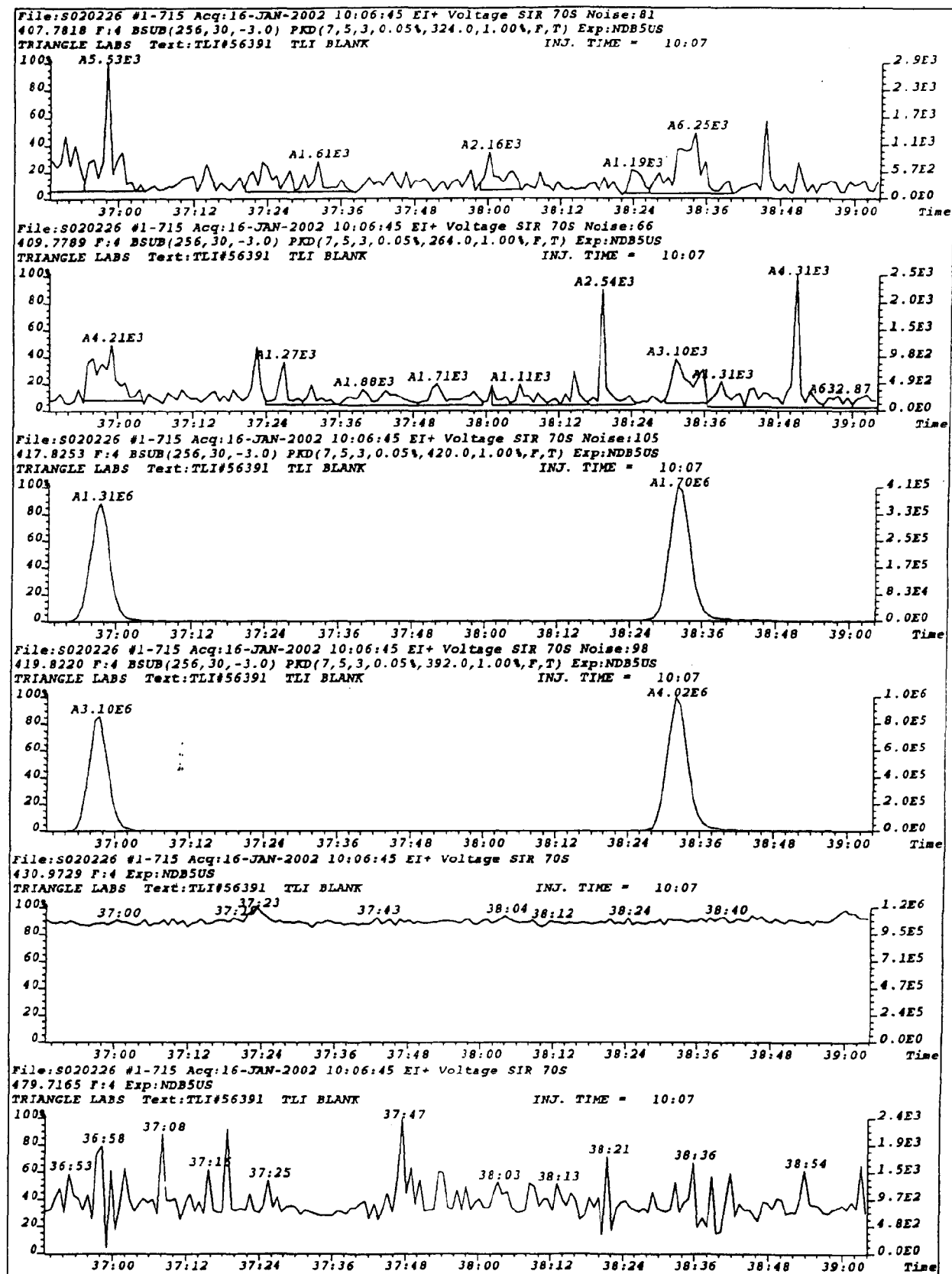


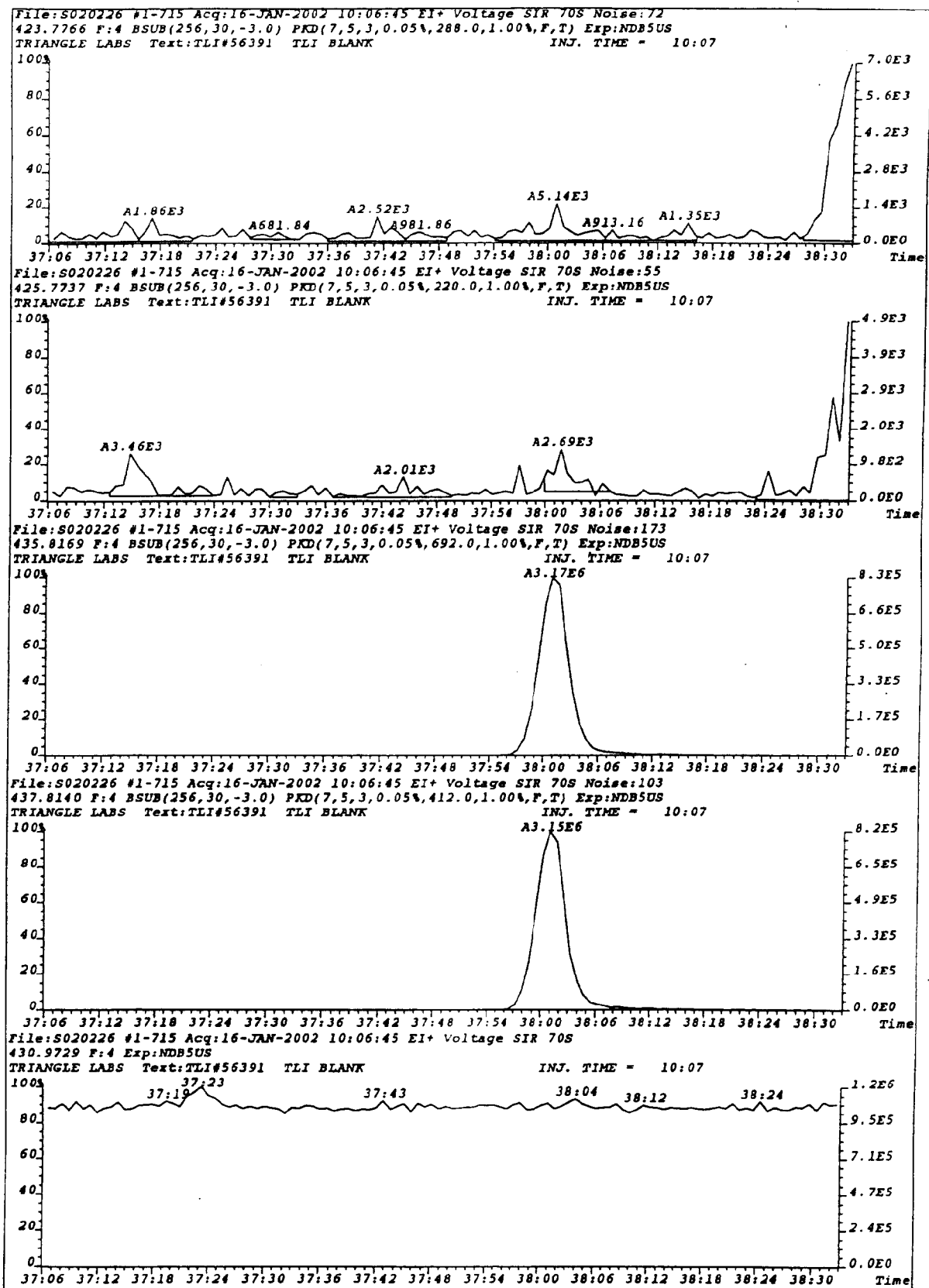


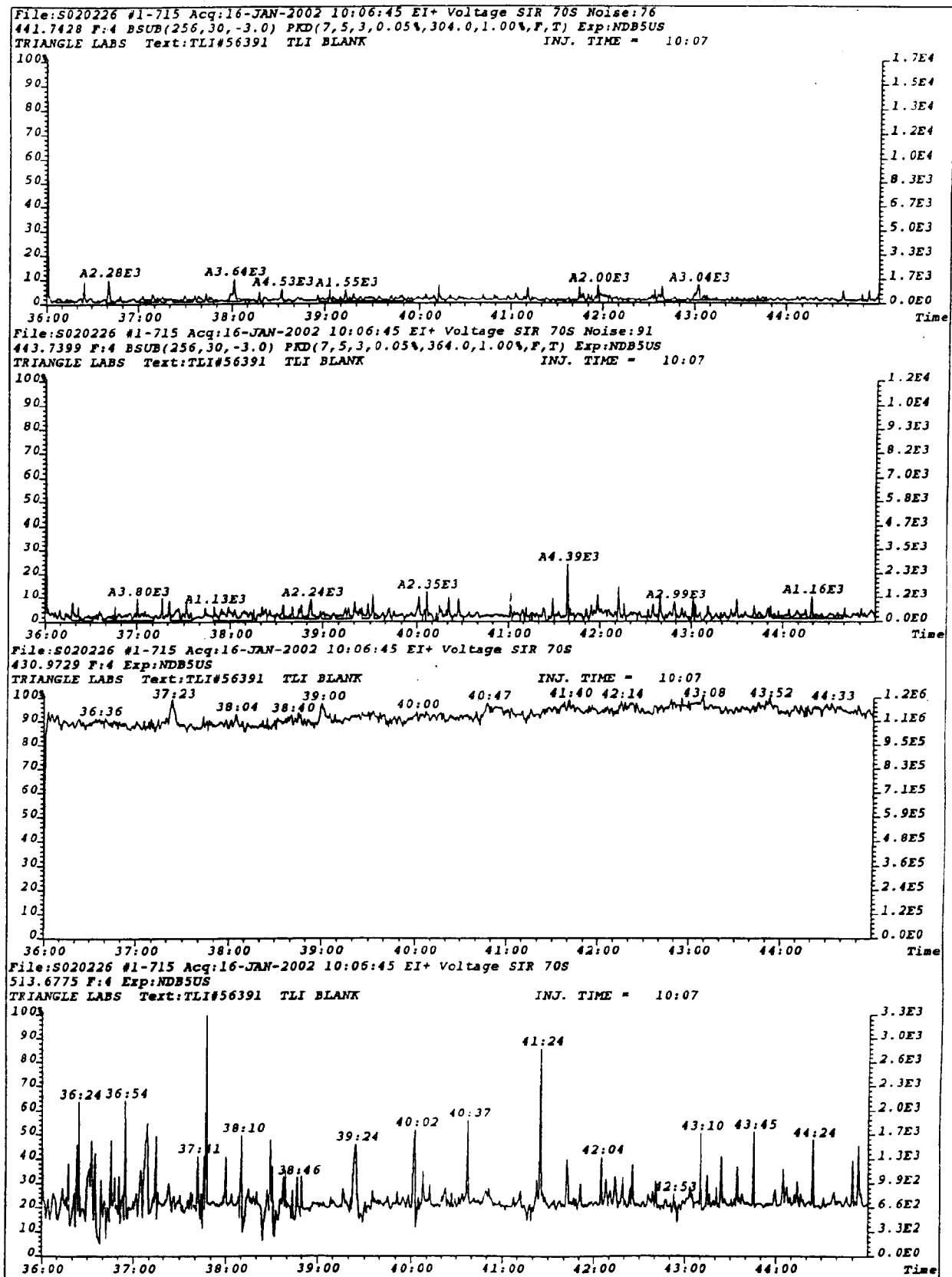


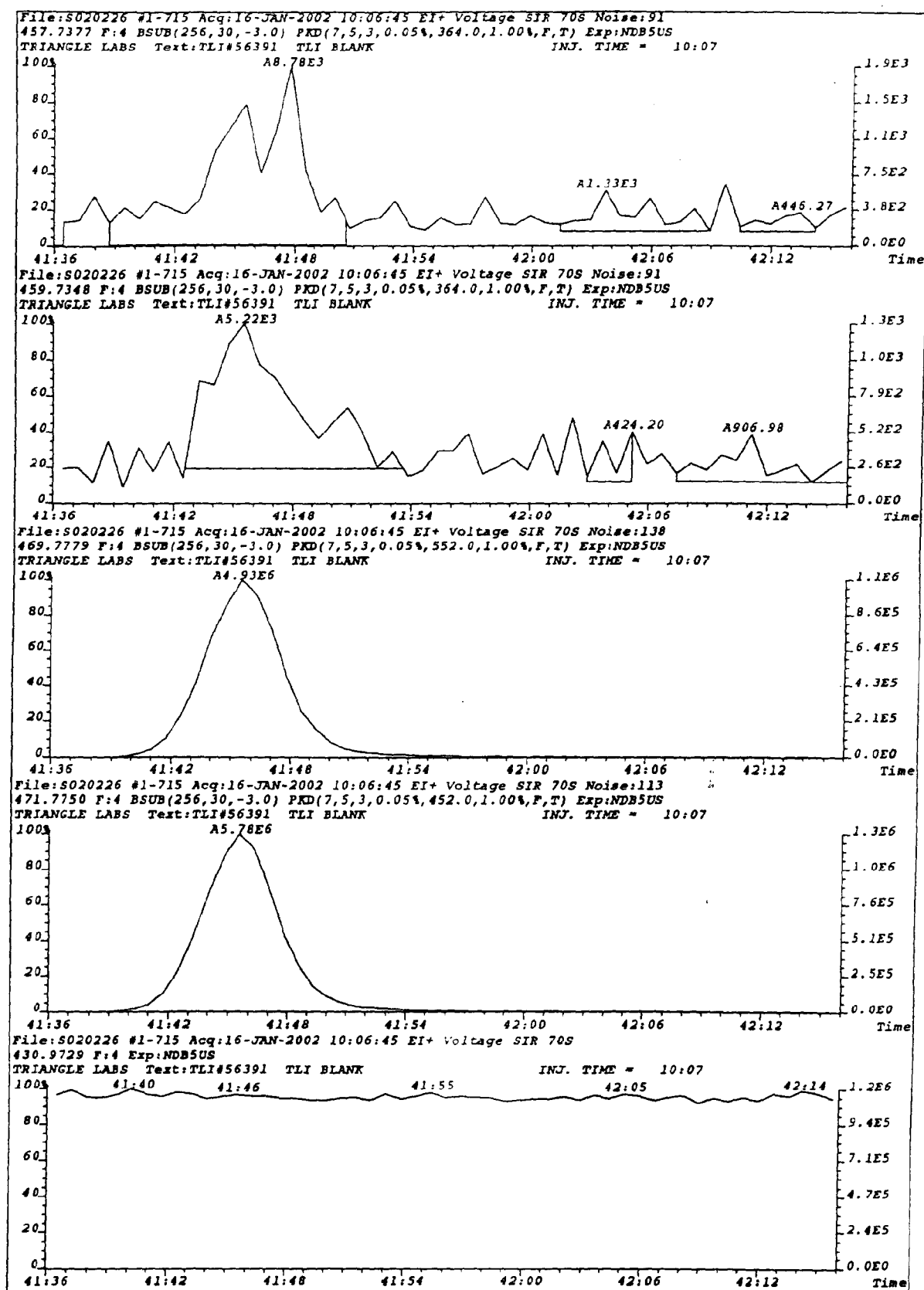


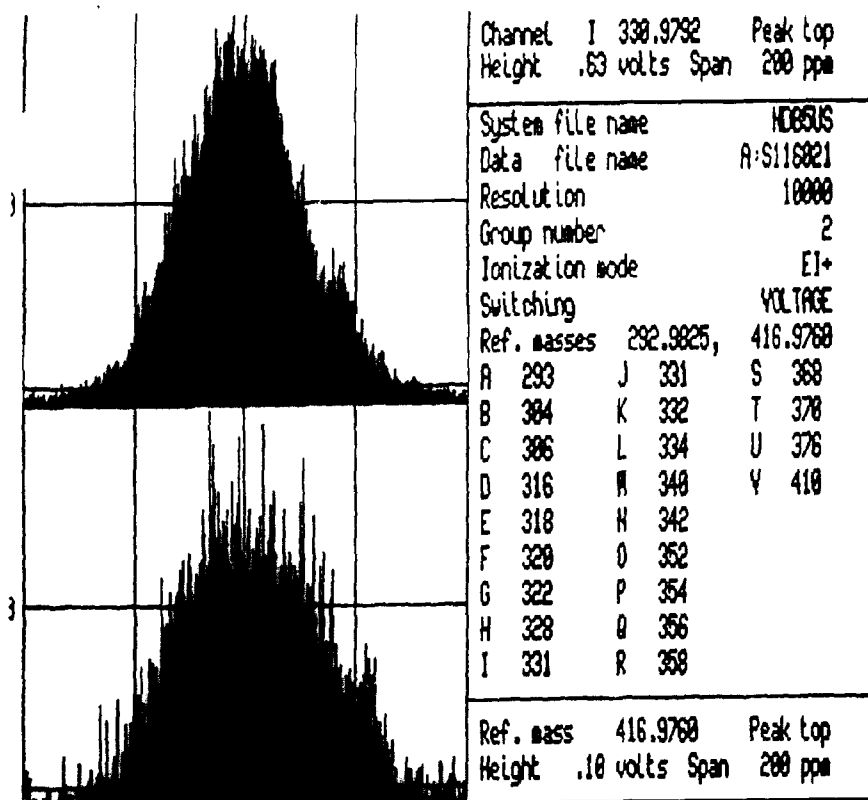


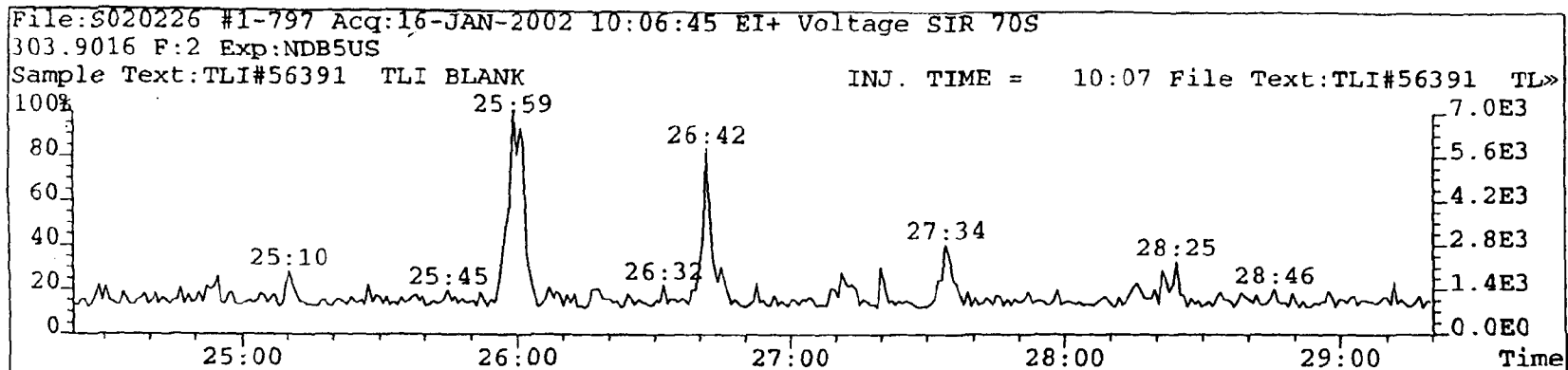
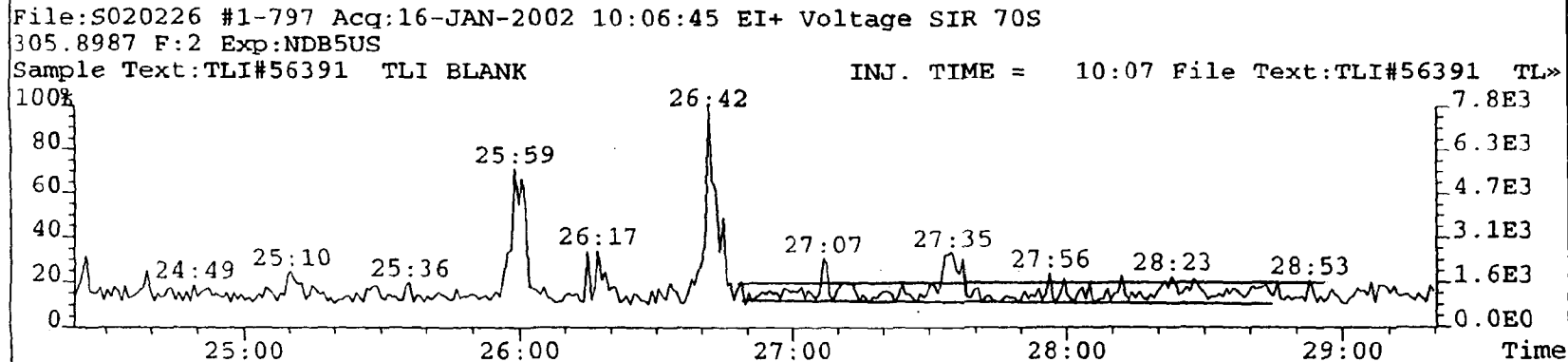
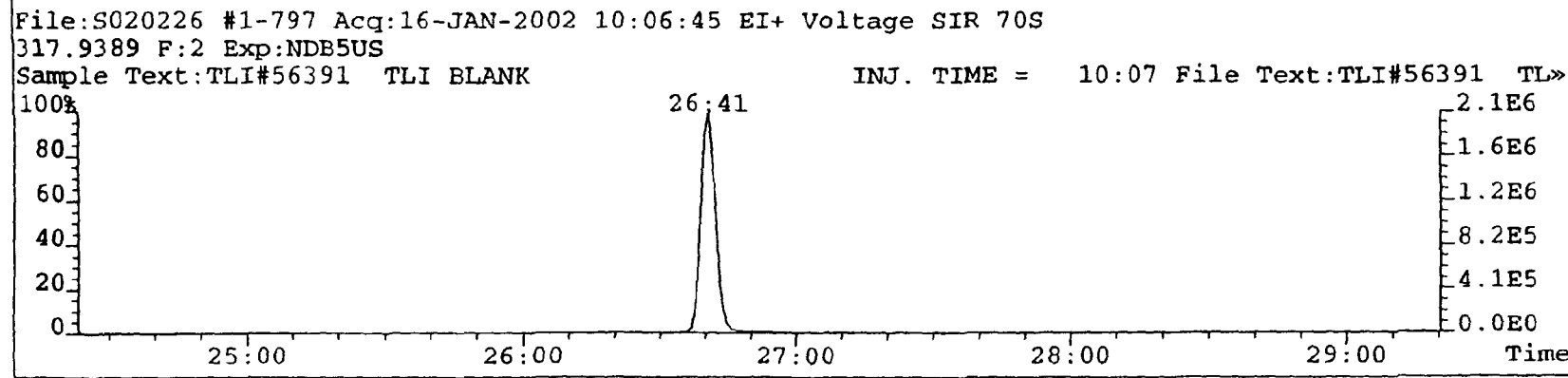


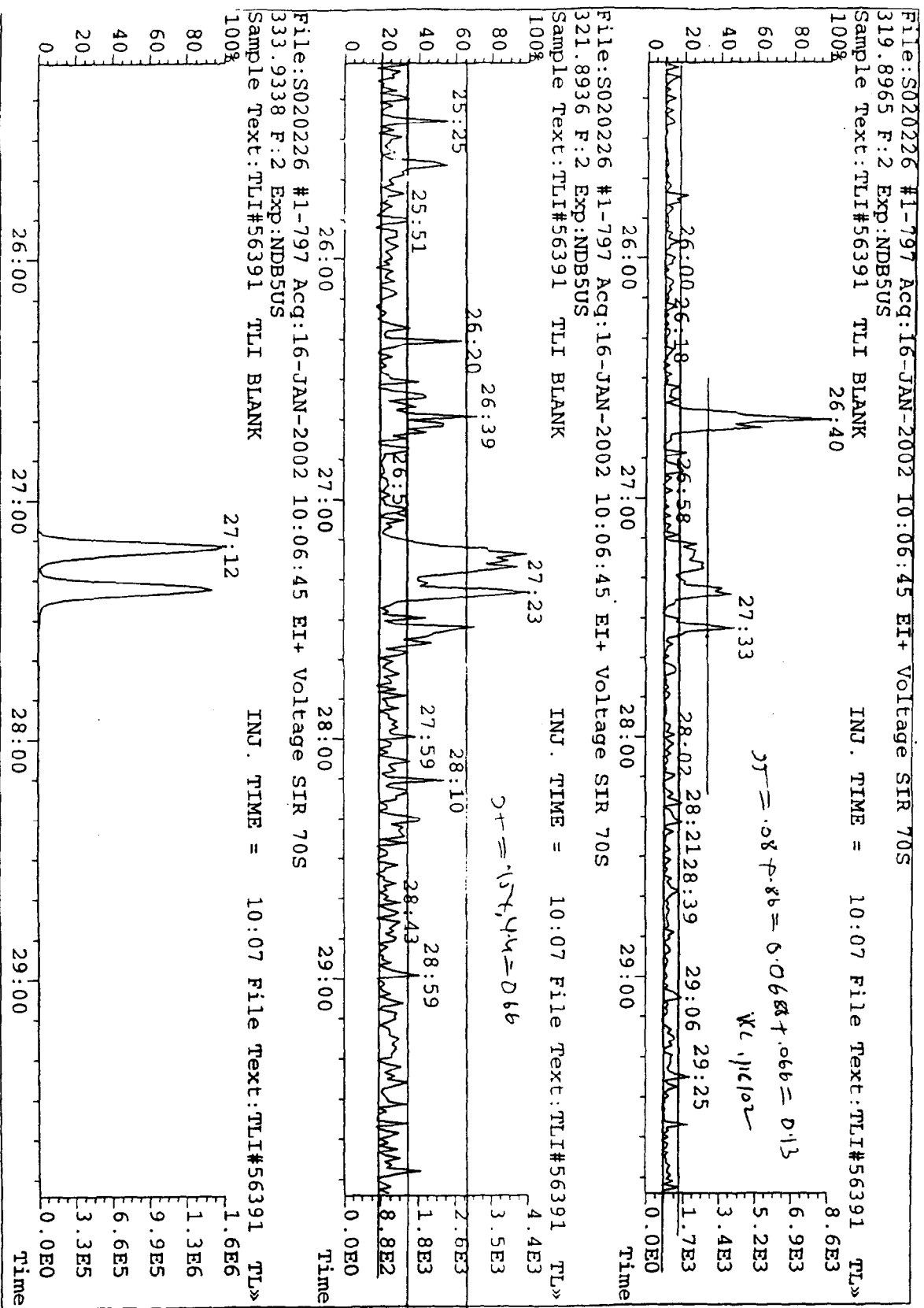


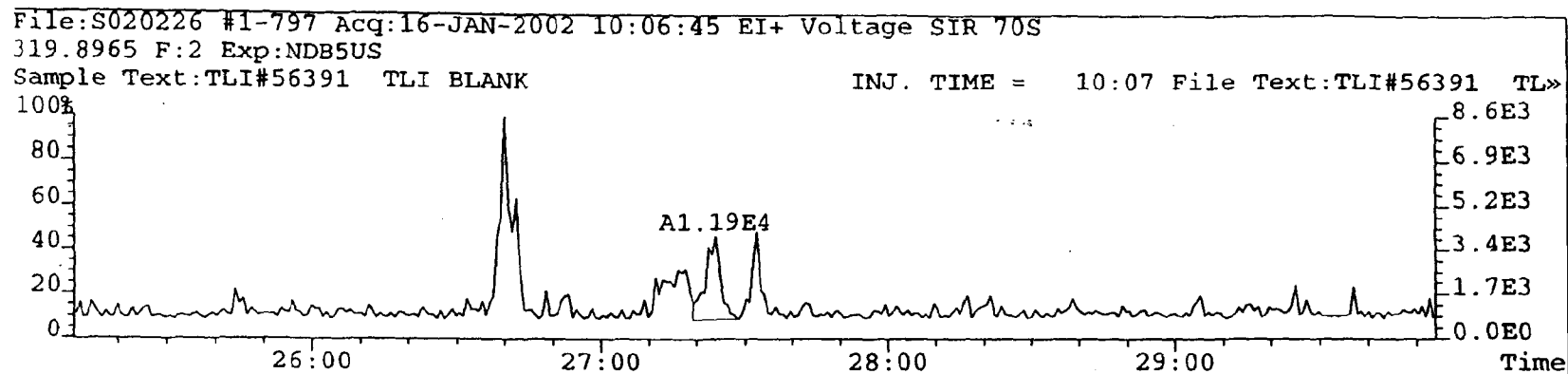
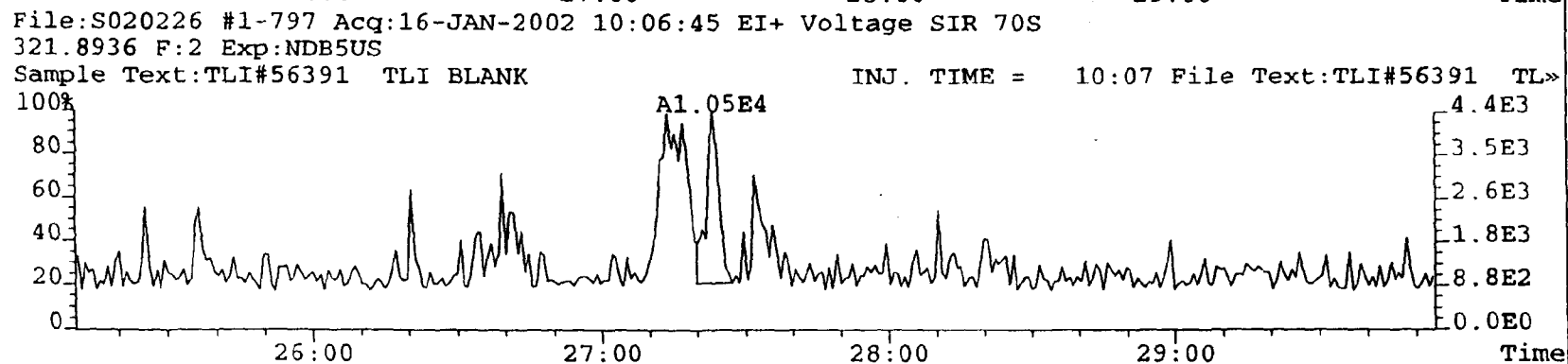
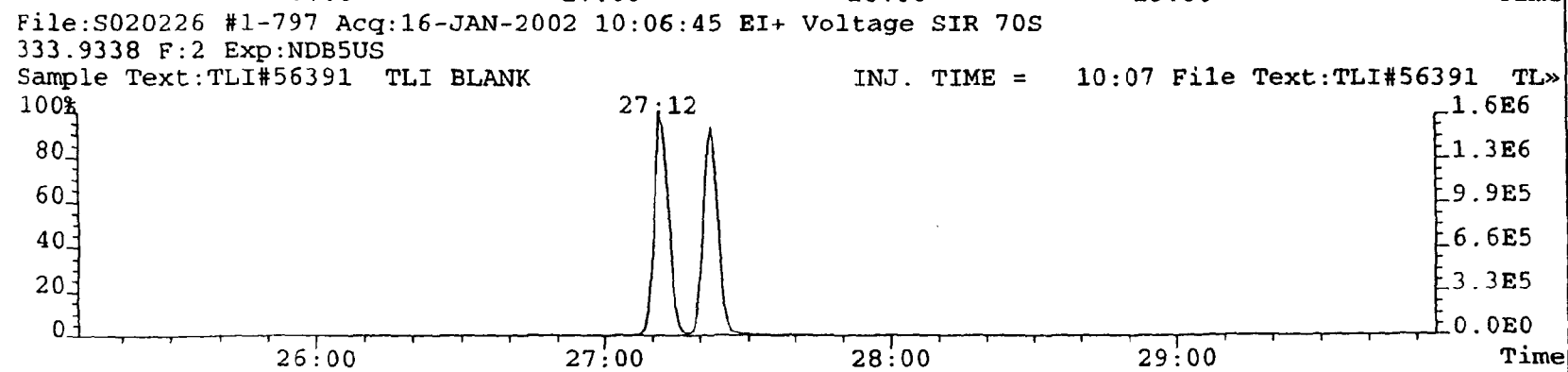


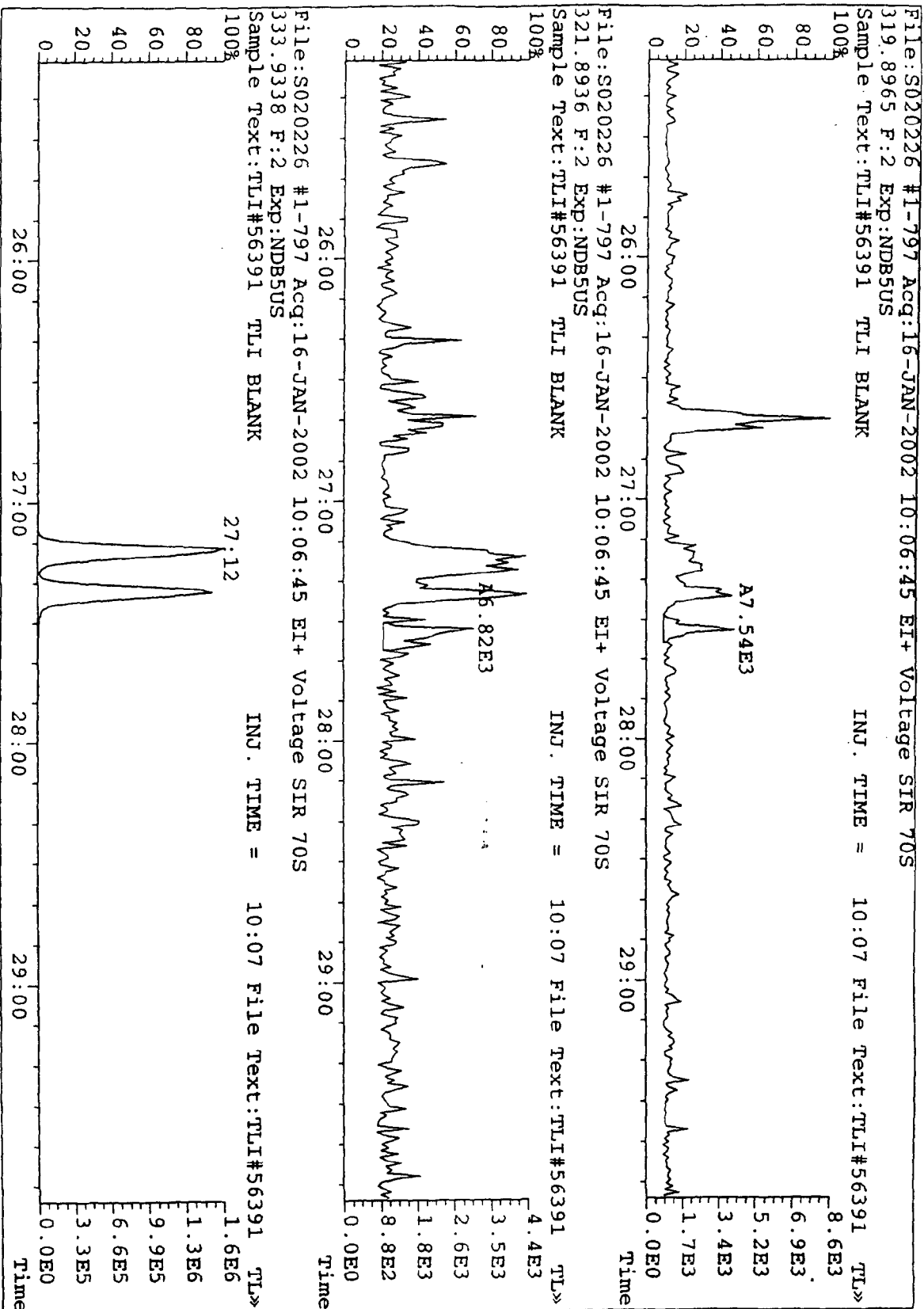


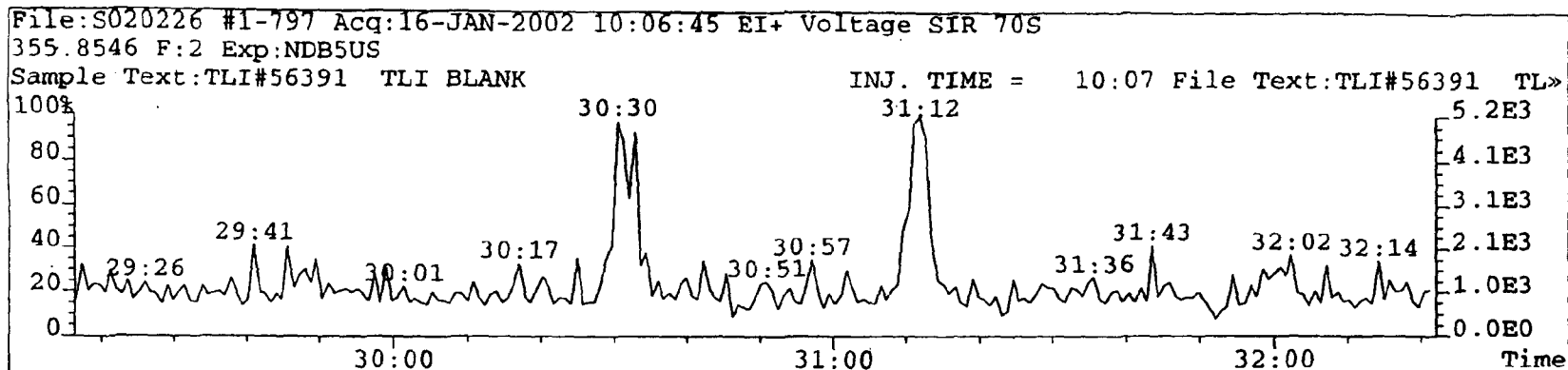
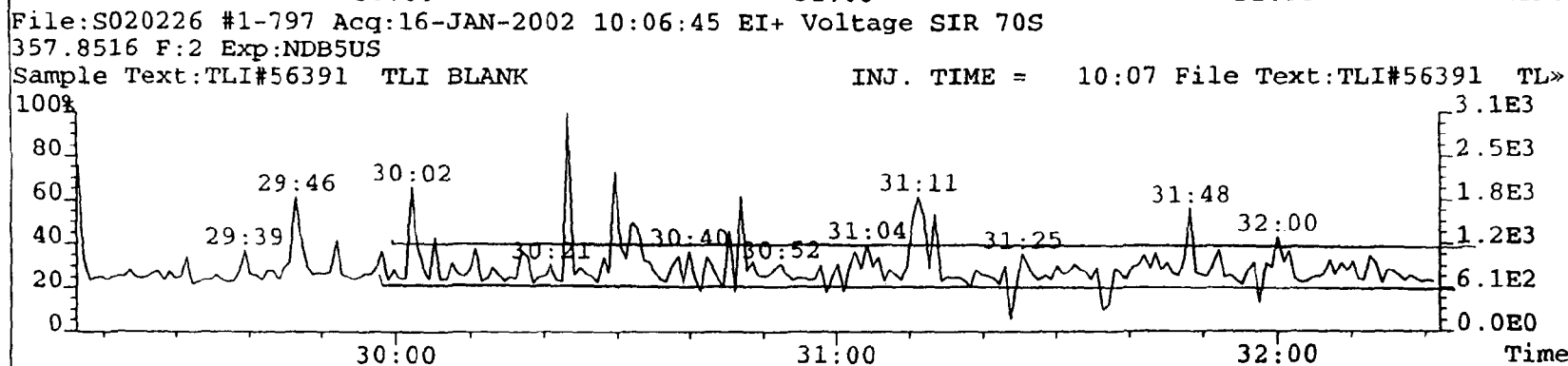
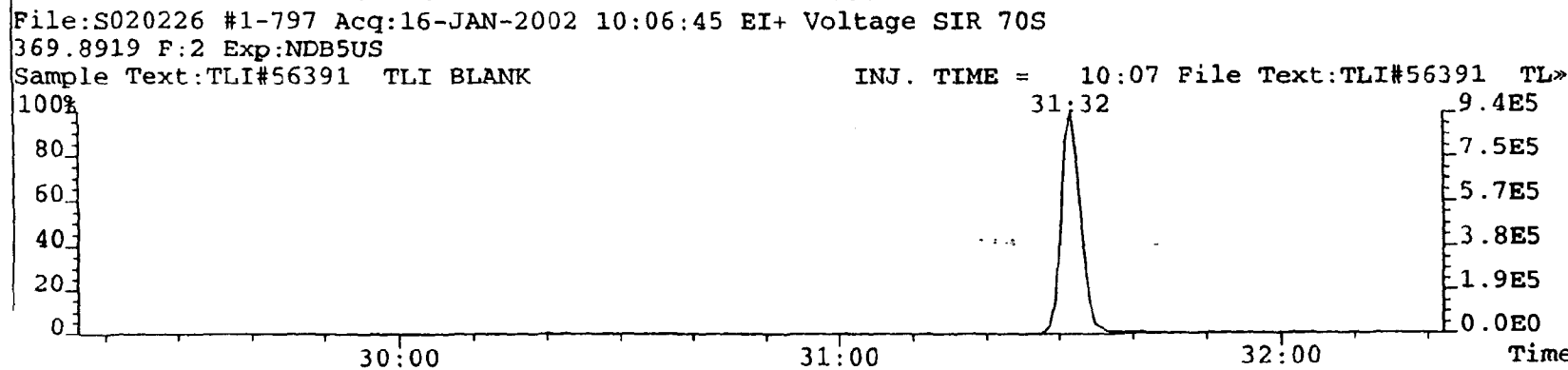


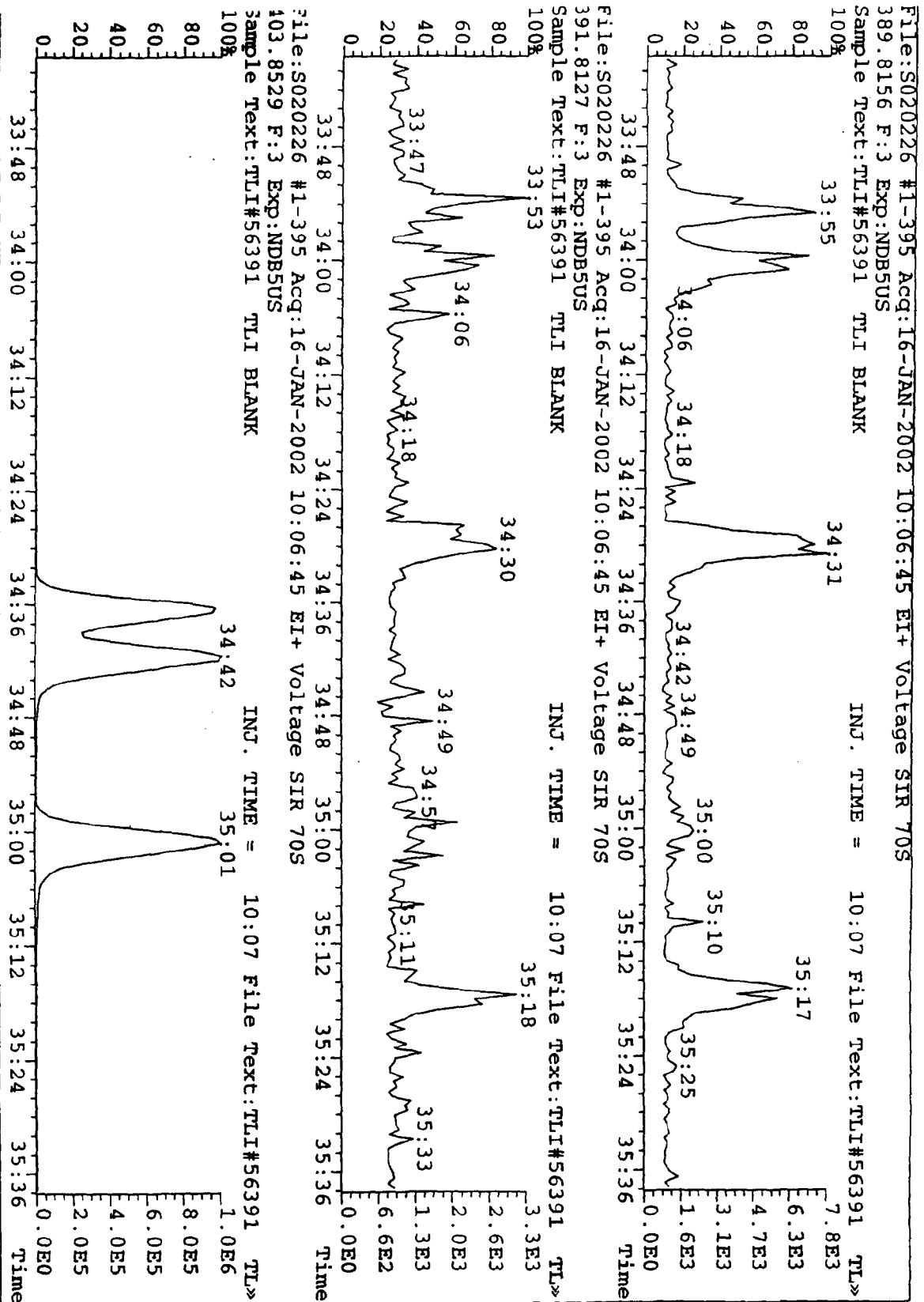


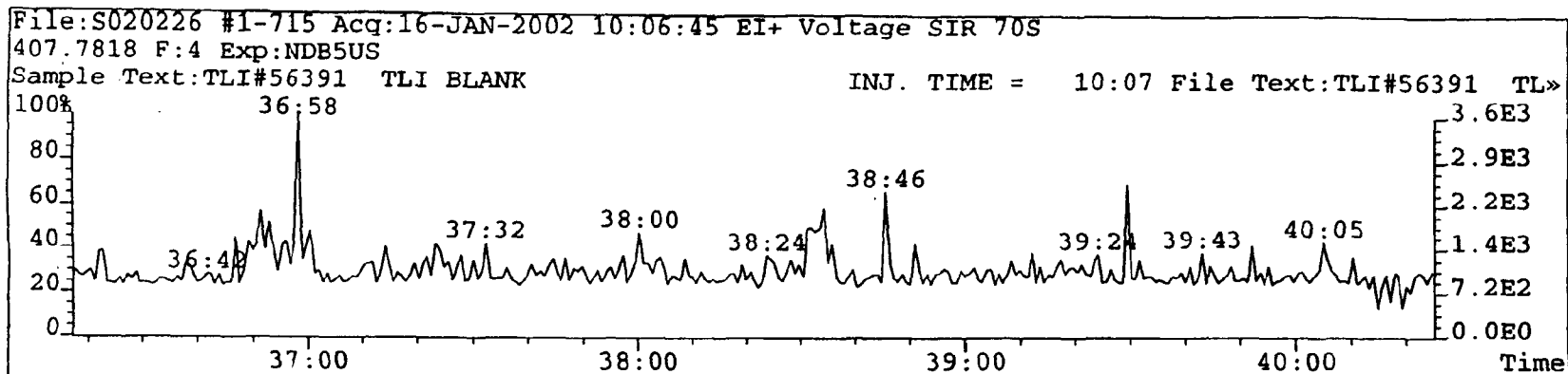
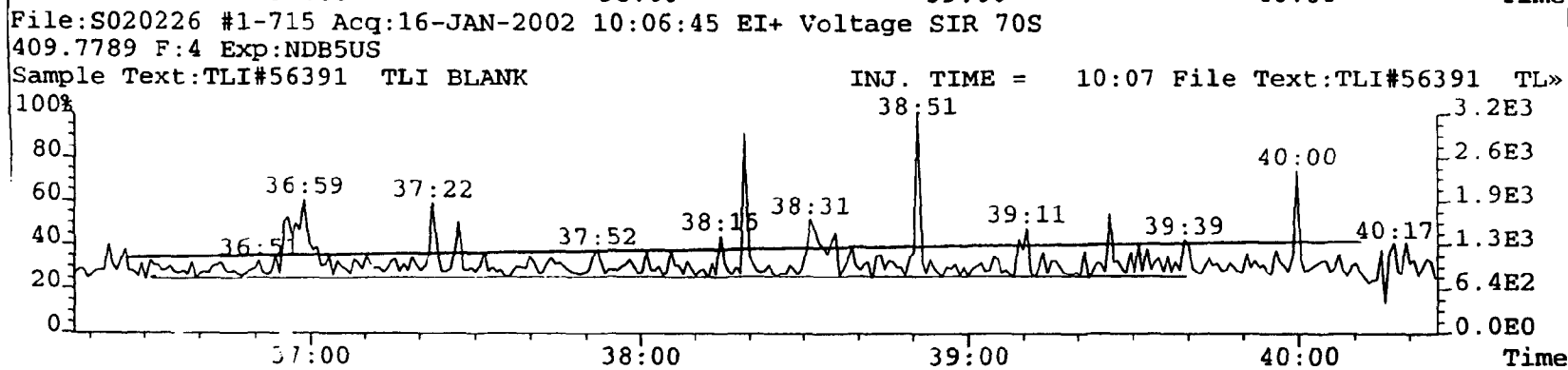
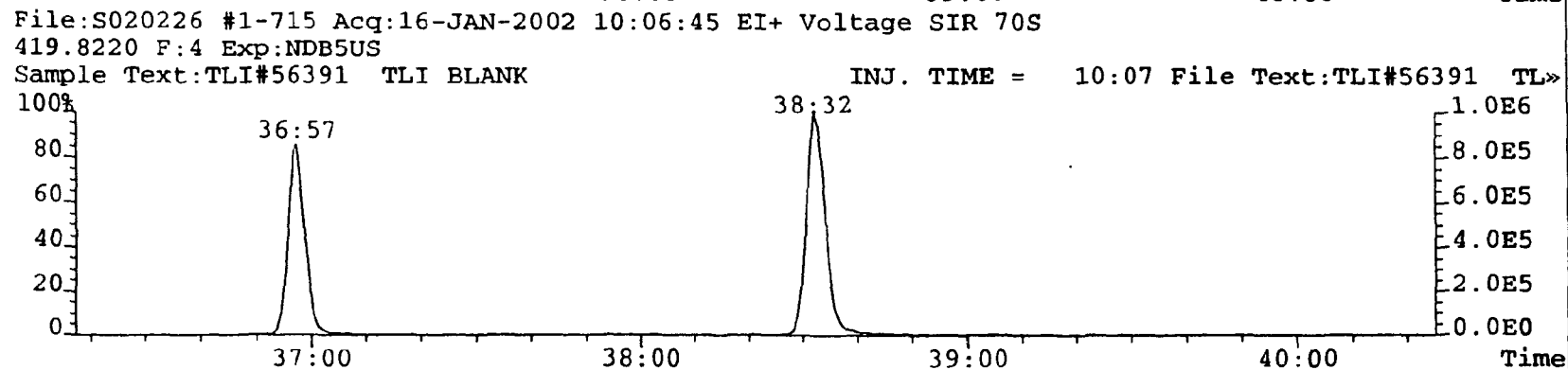










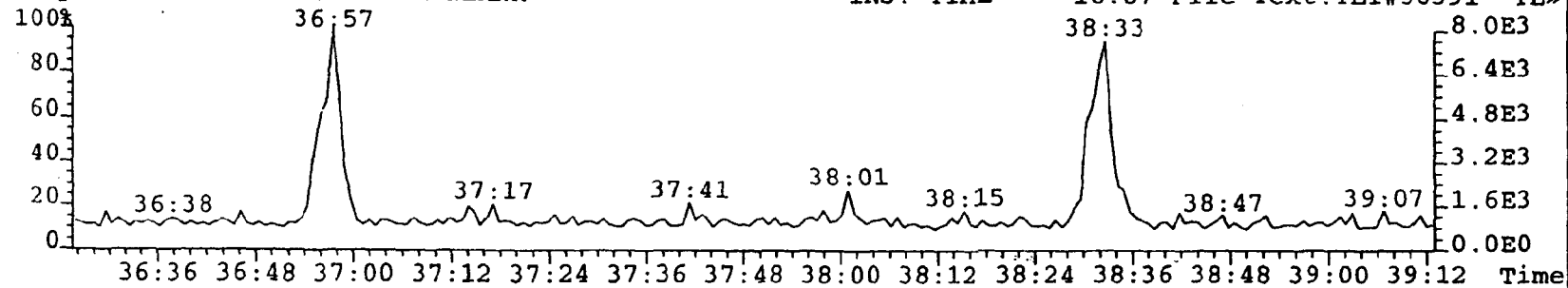


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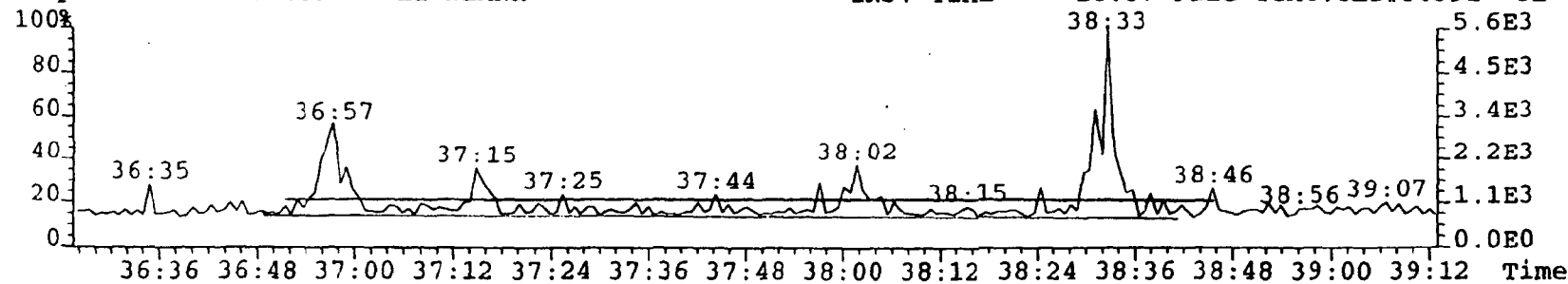


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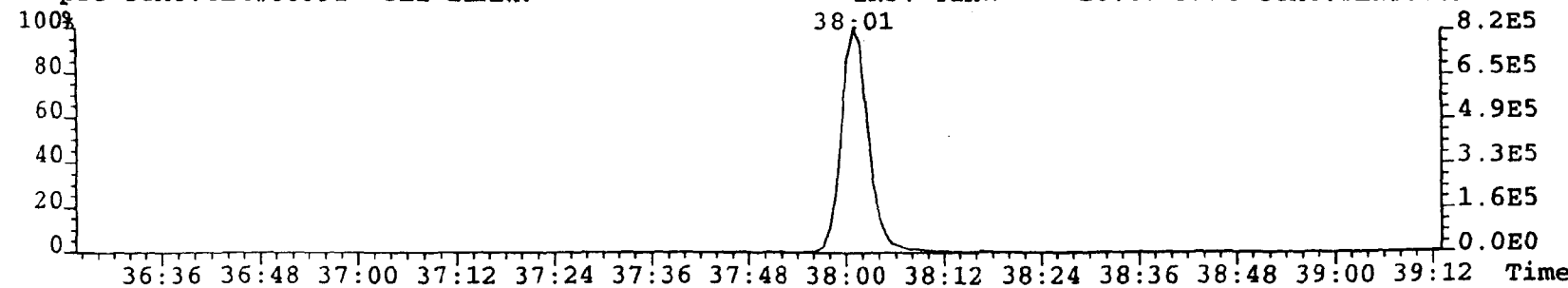


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