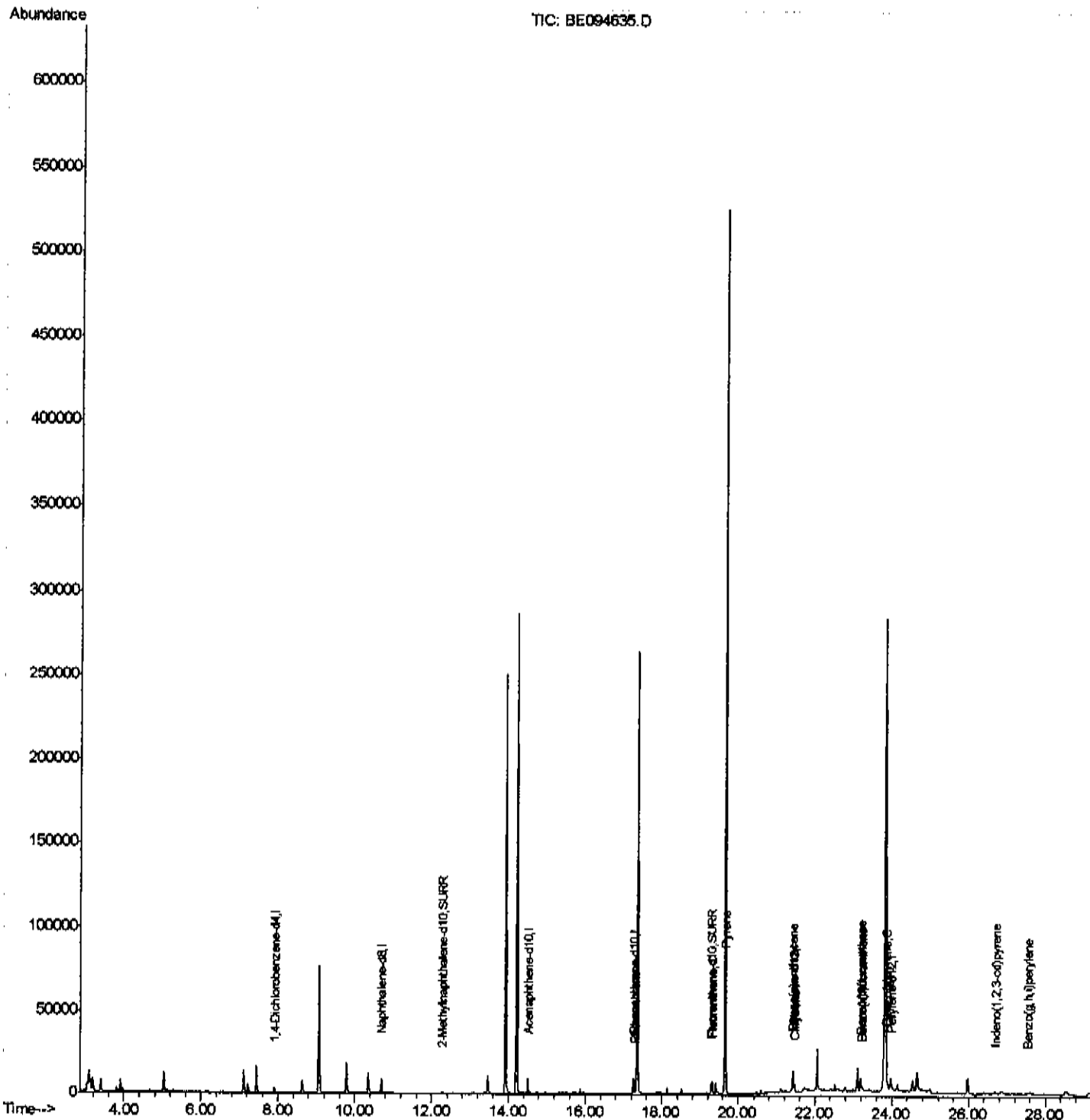


Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

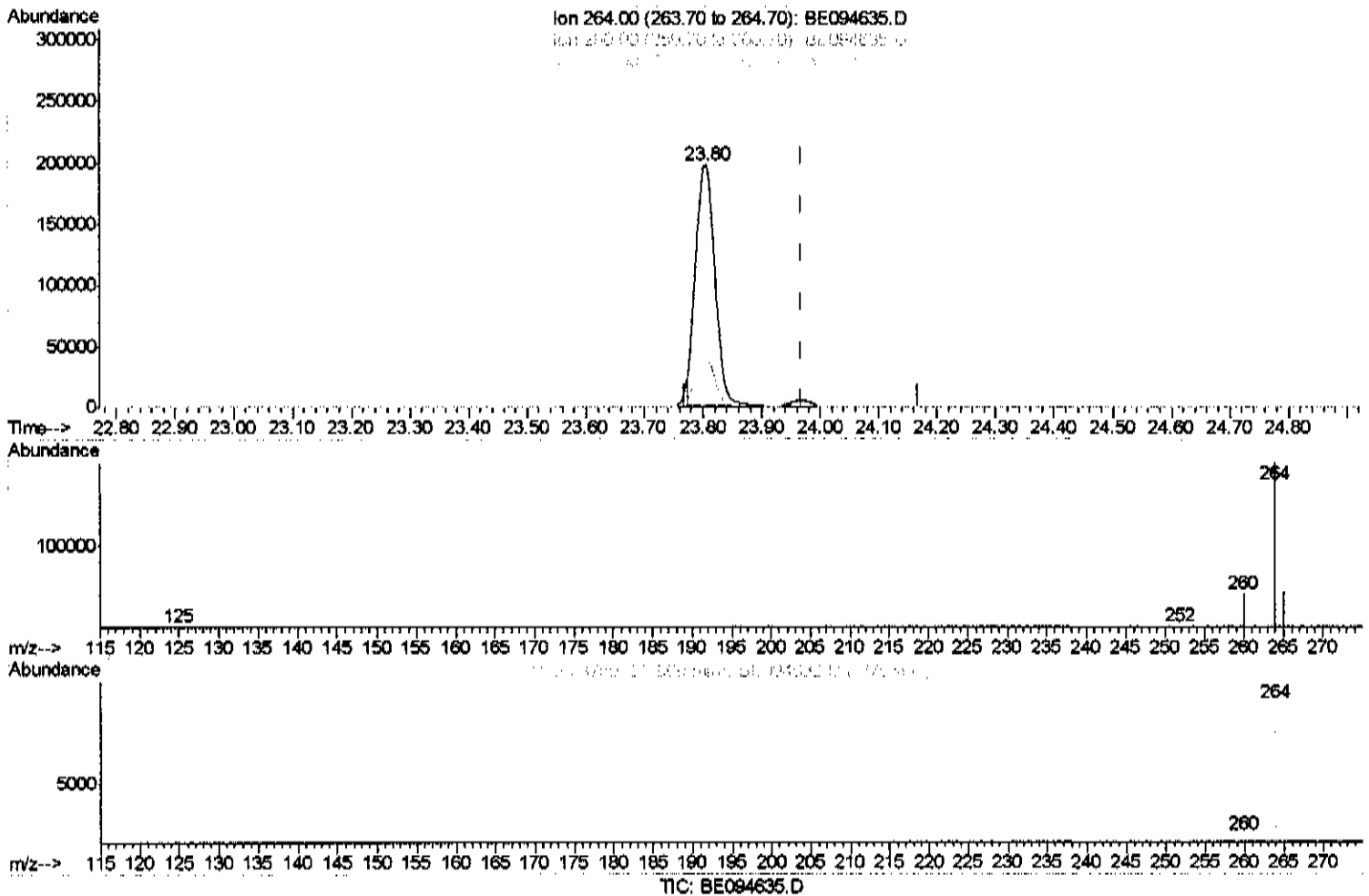
Quant Time: Oct 30 04:53:01 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:38:08 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(20) Perylene-d12 (I)

23.805min (-0.165) 0.40ng/ul

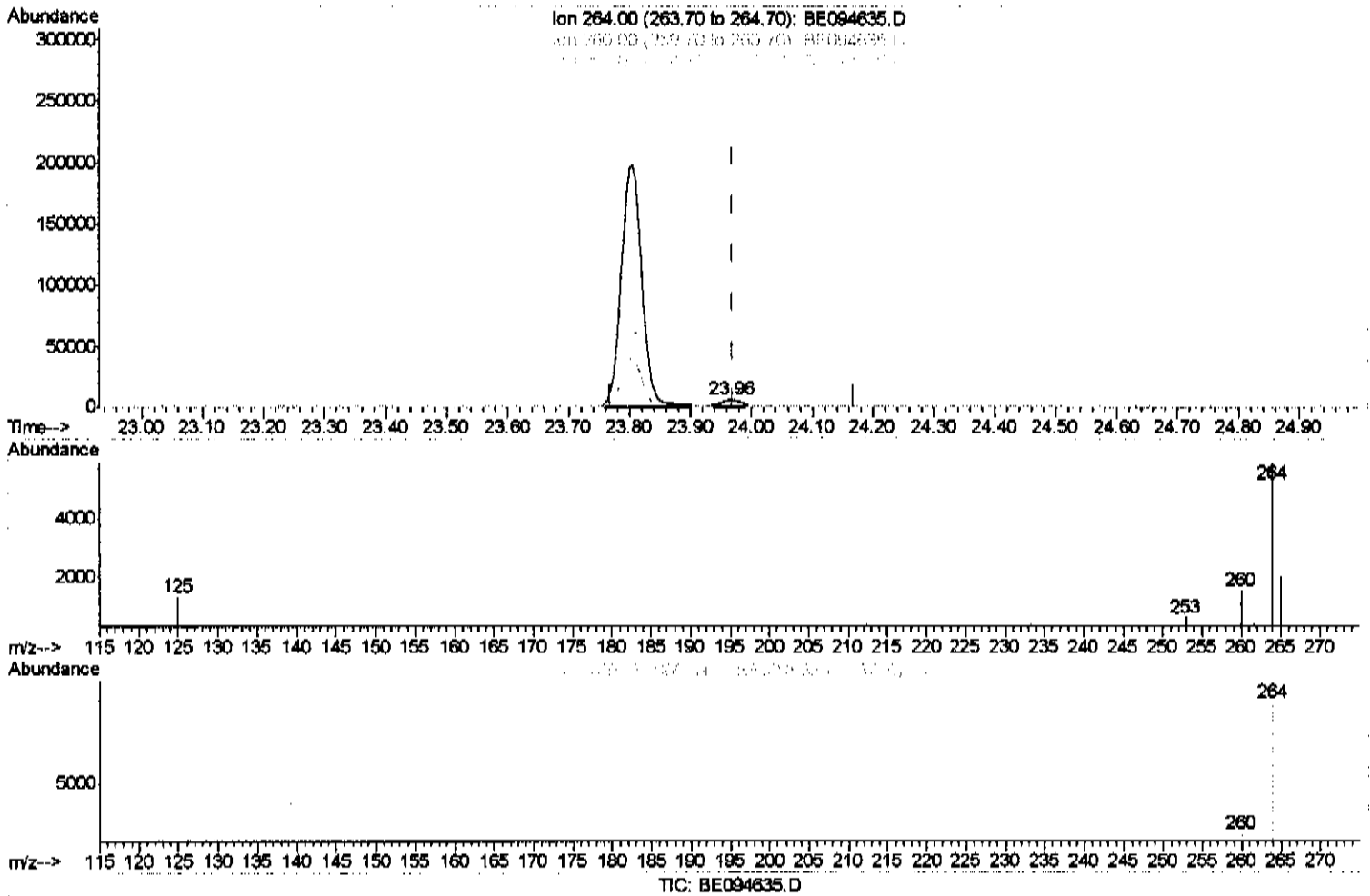
response 445997

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100    | 100    |
| 260.00 | 30.10  | 20.62# |
| 265.00 | 103.50 | 21.97# |
| 0.00   | 0.00   | 0.00   |

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:38:08 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(20) Perylene-d12 (I)

23.964min (-0.005) 0.40ng/ul m

10 10/31/17

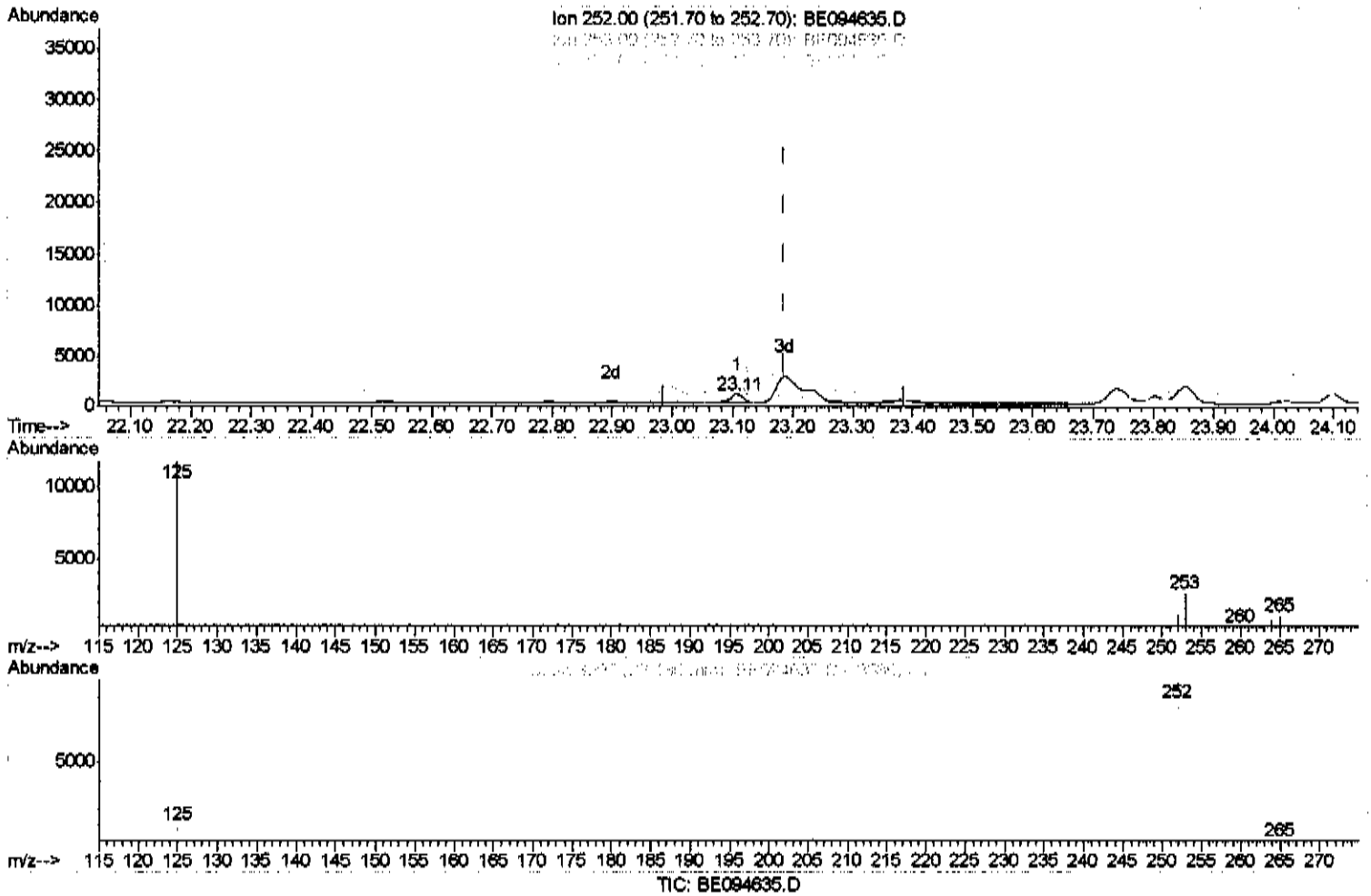
response 10988

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100    | 100    |
| 260.00 | 30.10  | 26.71  |
| 265.00 | 103.50 | 34.75% |
| 0.00   | 0.00   | 0.00   |

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(21) Benzo(b)fluoranthene

23.108min (-0.078) 0.05ng/ul

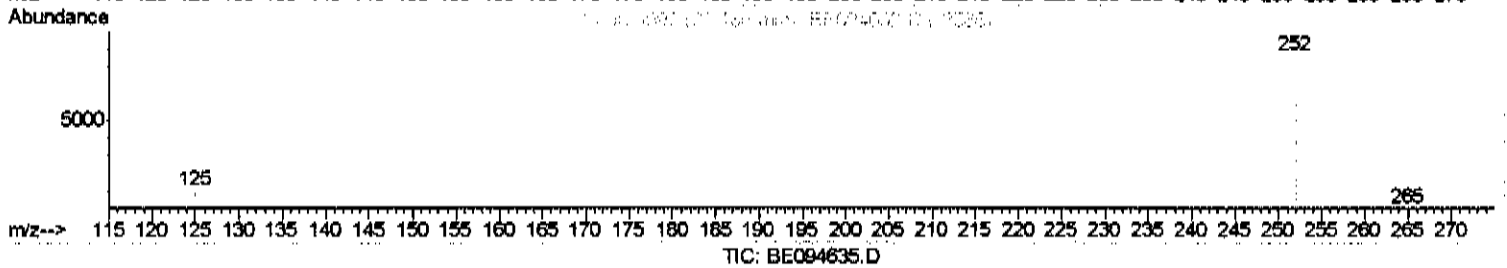
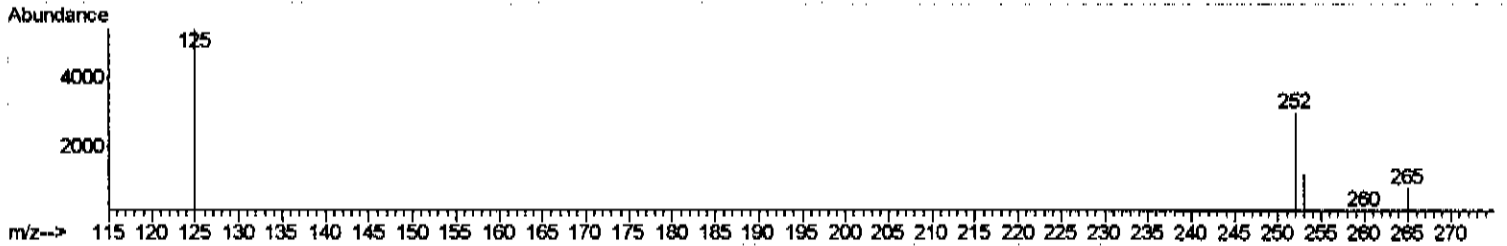
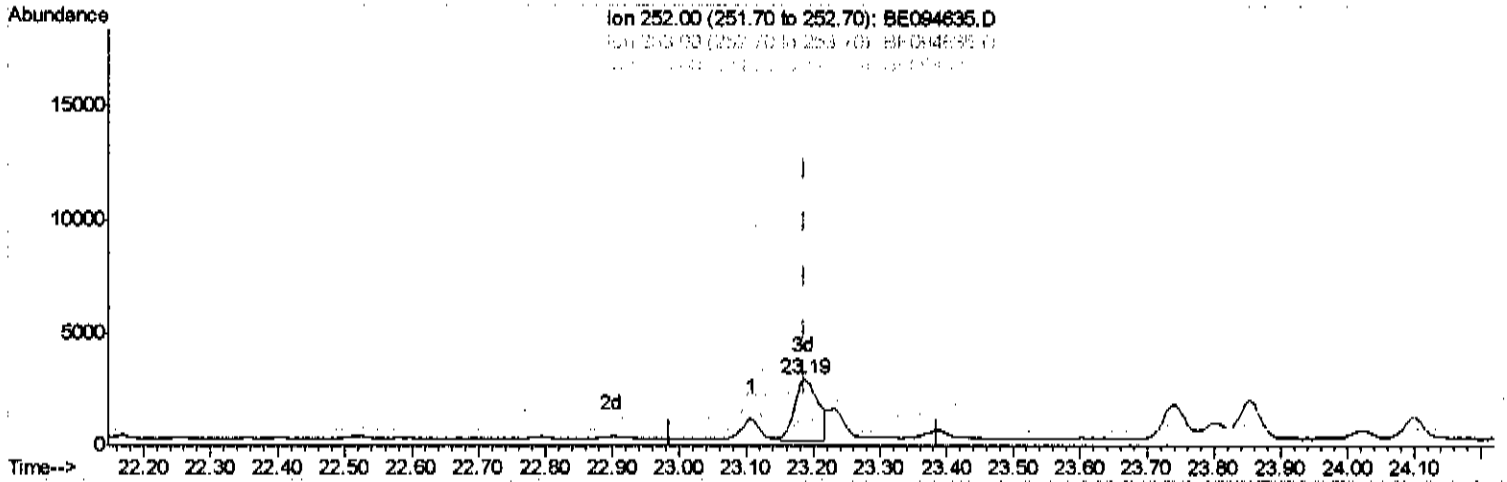
response 1541

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 32.10 | 225.25# |
| 125.00 | 17.50 | 985.90# |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 OLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(21) Benzo(b)fluoranthene

23.185min (-0.001) 0.22ng/ul m

*SJ 10/31/17*

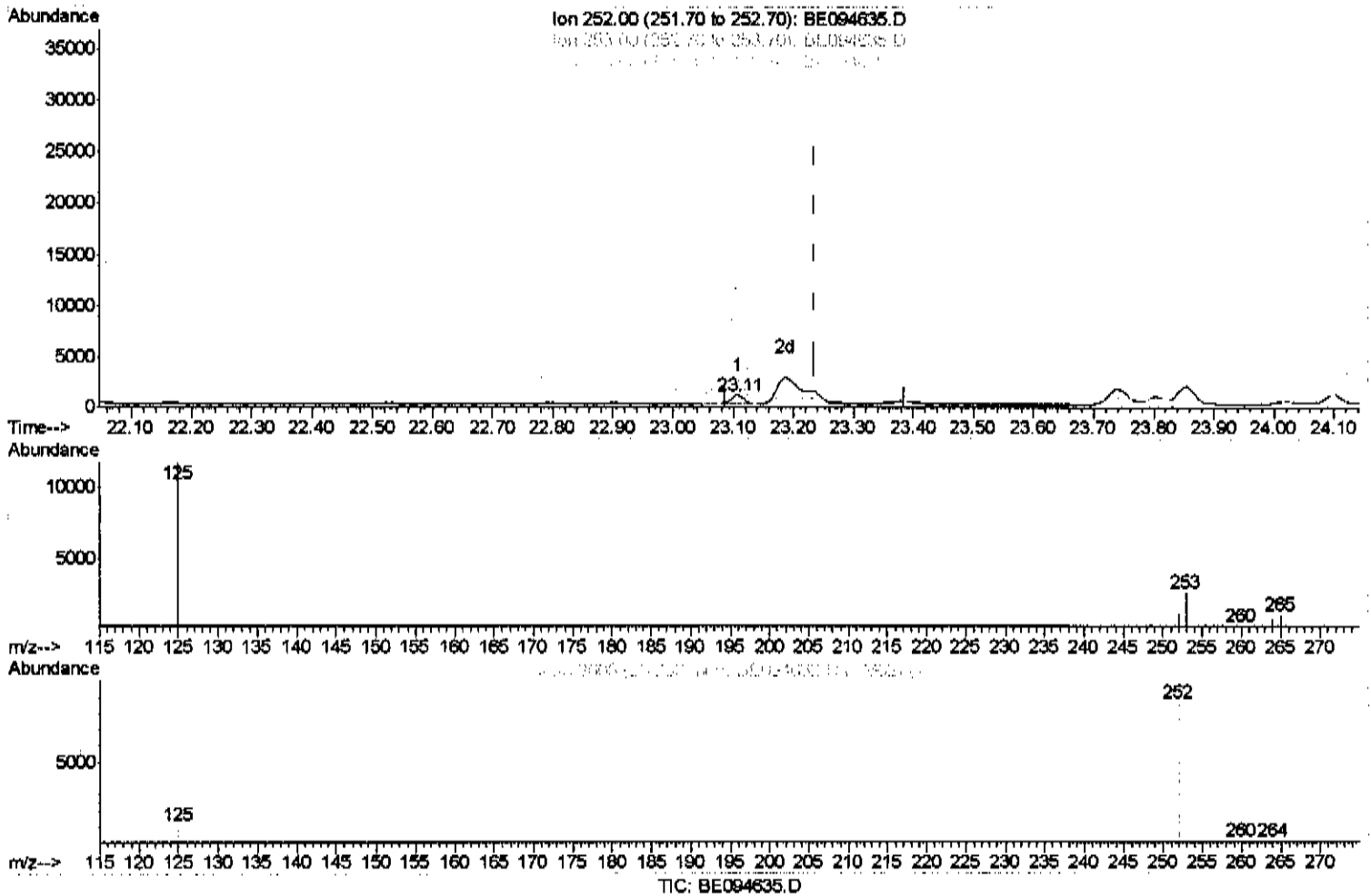
response 6876

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 32.10 | 41.17   |
| 125.00 | 17.50 | 178.96# |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

23.108min (-0.128) 0.05ng/ui

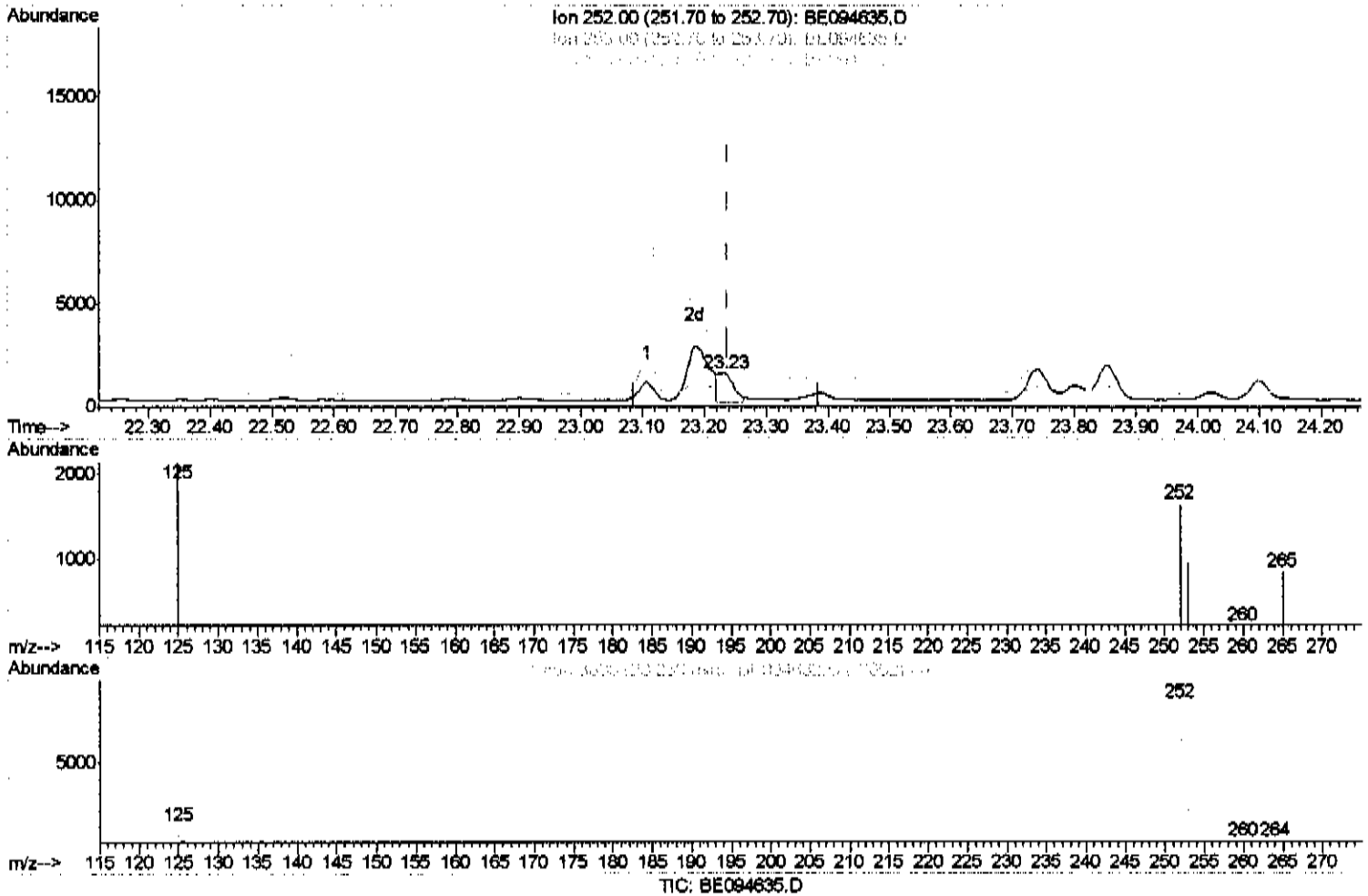
response 1541

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 30.60 | 225.25# |
| 125.00 | 17.10 | 985.90# |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

23.231min (-0.005) 0.08ng/ul m

response 2490

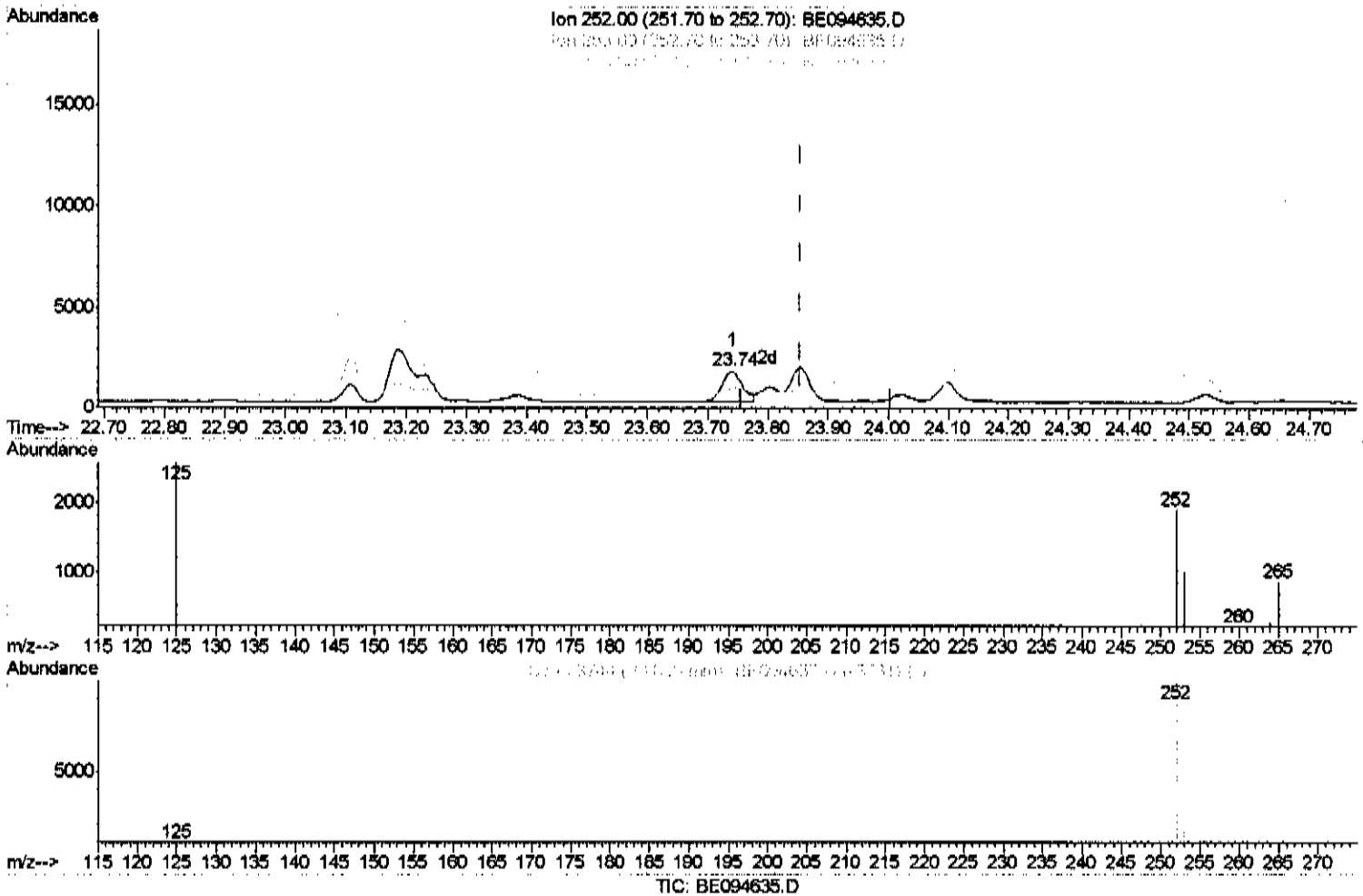
| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 30.60 | 57.32%  |
| 125.00 | 17.10 | 130.36% |
| 0.00   | 0.00  | 0.00    |

10 10/31/17

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(23) Benzo(a)pyrene (C)  
 23.741min (-0.114) 0.11ng/ul  
 response 3544

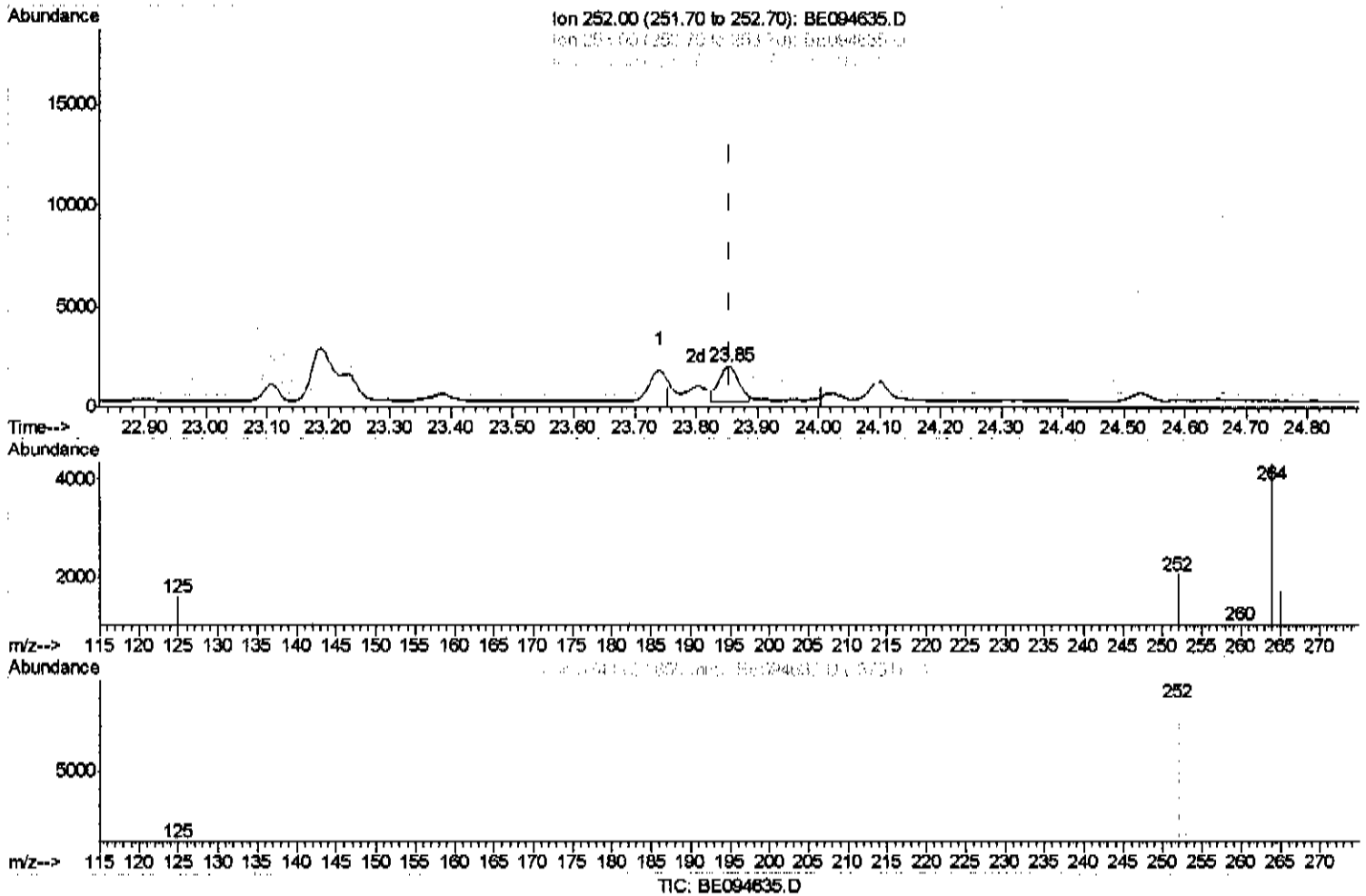
| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 36.60 | 53.27#  |
| 125.00 | 22.60 | 134.48# |
| 0.00   | 0.00  | 0.00    |



# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Qlast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.855min (-0.001) 0.13ng/ul m

response 4007

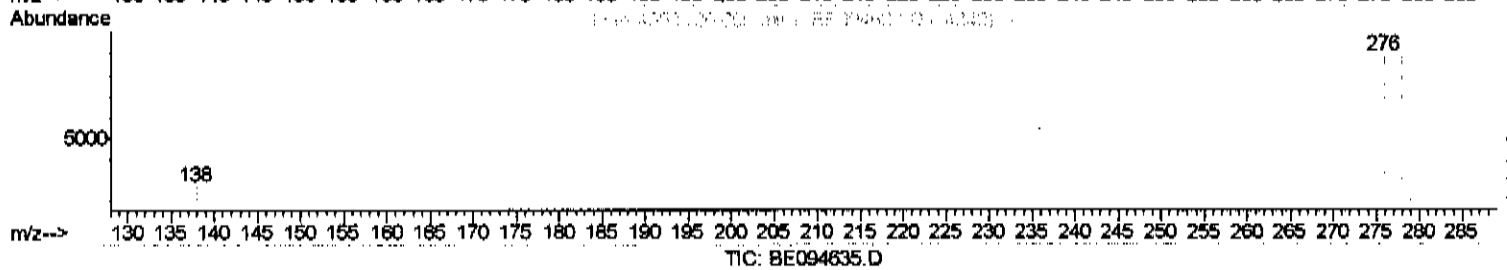
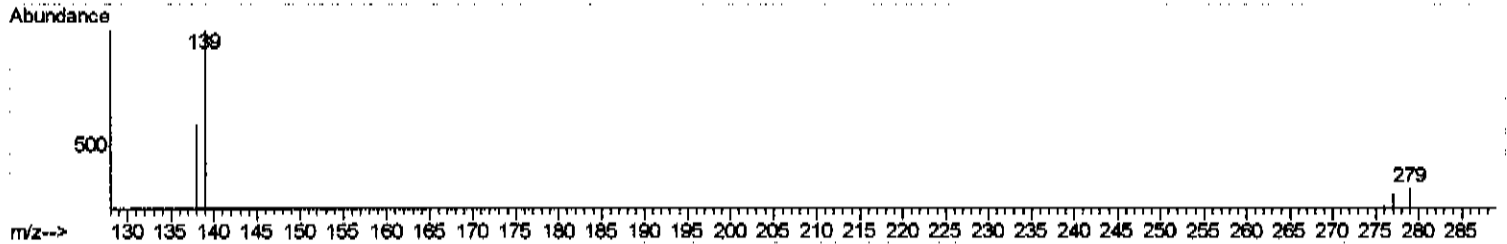
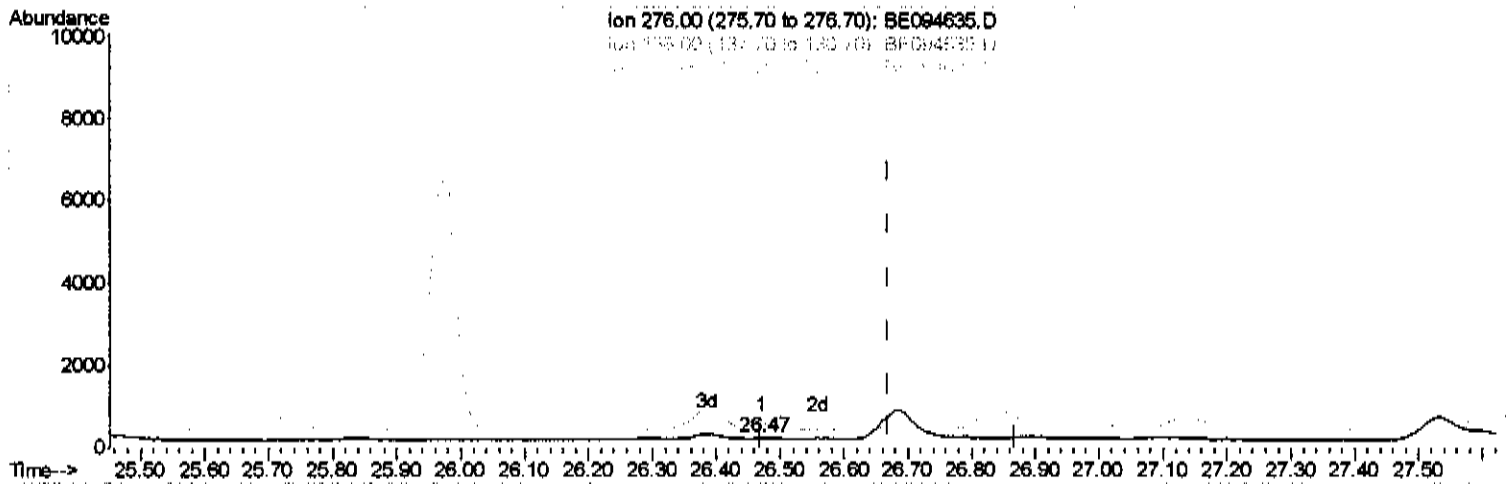
| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 35.60 | 50.02# |
| 125.00 | 22.60 | 77.34# |
| 0.00   | 0.00  | 0.00   |

10/31/17

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 OLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(24) Indeno(1,2,3-cd)pyrene

26.472min (-0.197) 0.00ng/ui

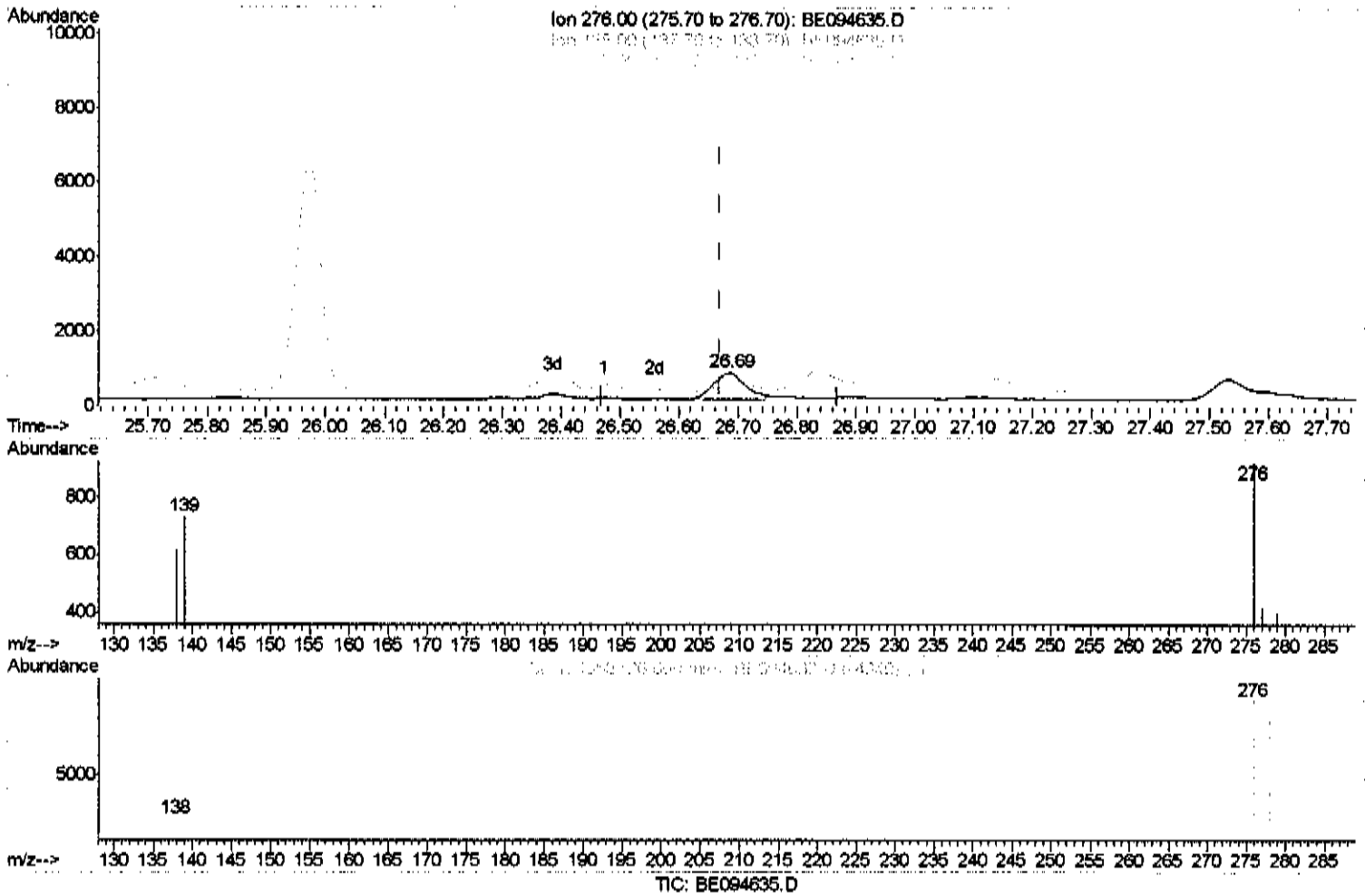
response 57

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 276.00 | 100   | 100     |
| 138.00 | 35.00 | 885.96% |
| 227.00 | 10.00 | 0.00%   |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(24) Indeno(1,2,3-cd)pyrene

26.687min (+0.018) 0.08ng/ul m

*JU 10/31/17*

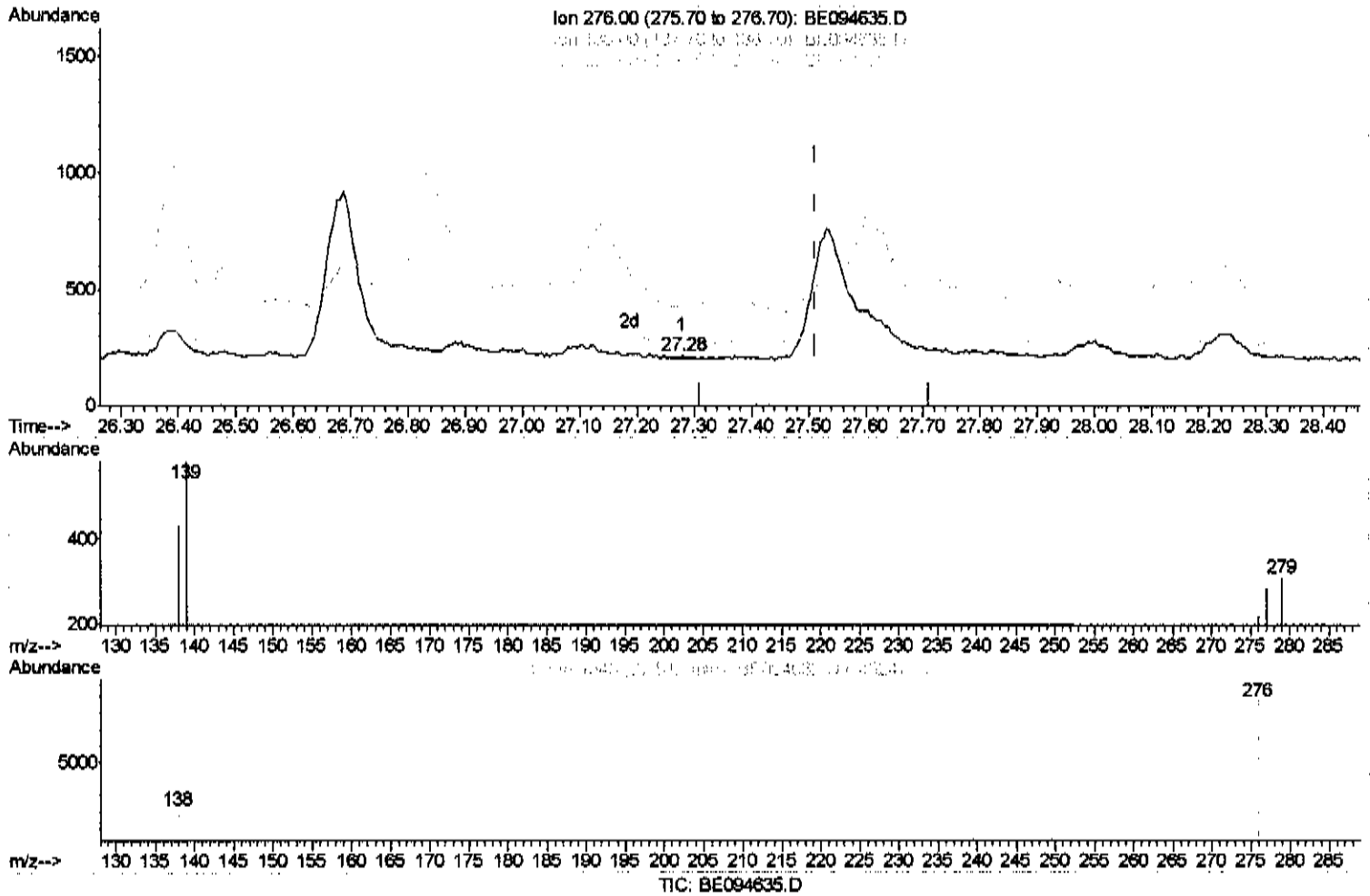
response 2604

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 35.00 | 19.39# |
| 227.00 | 10.00 | 0.00#  |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(26) Benzo(g,h,i)perylene

27.279min (-0.233) 0.00ng/ui

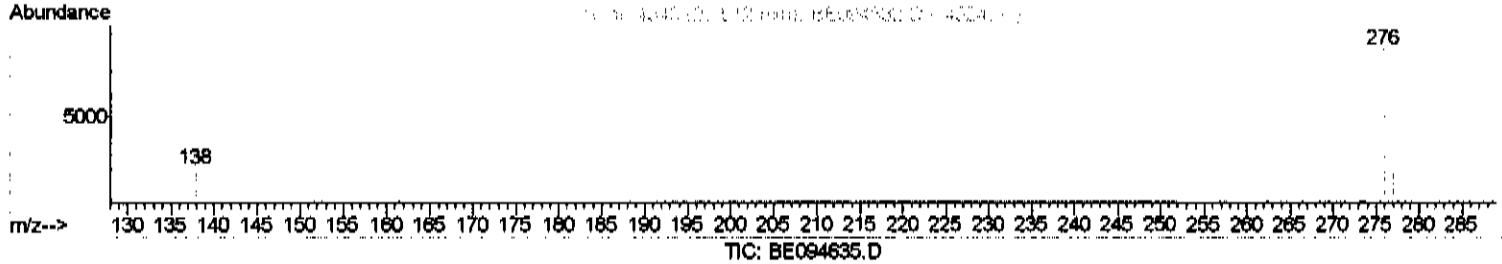
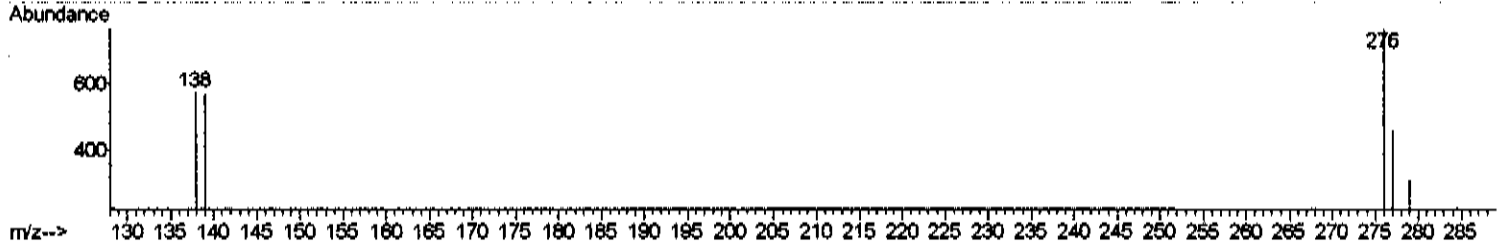
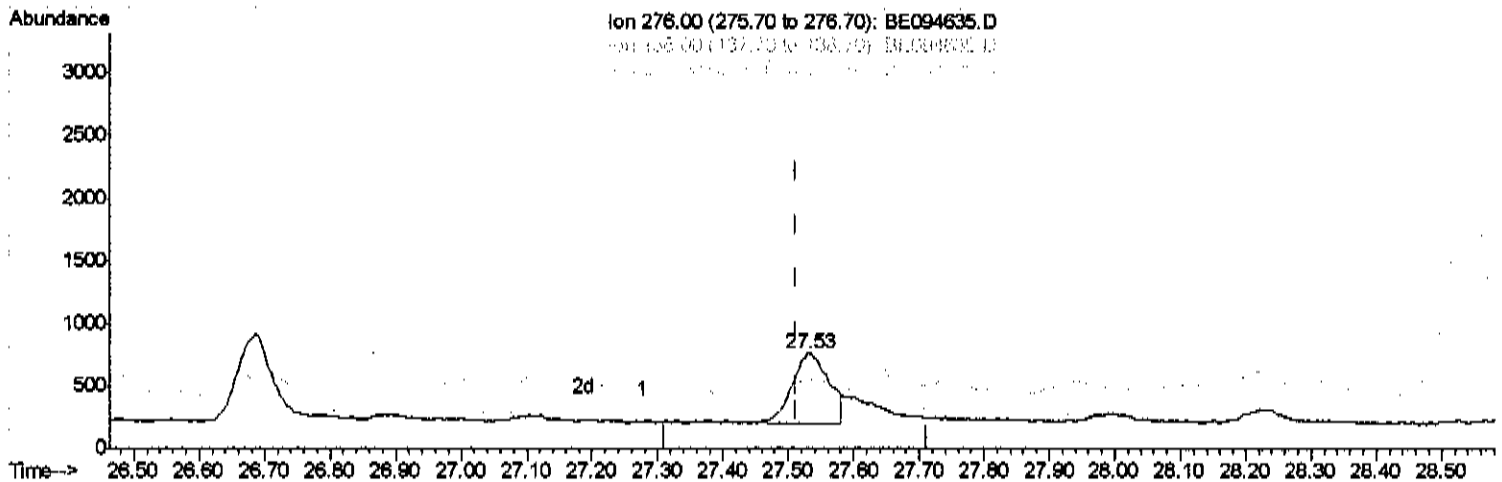
response 20

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 276.00 | 100   | 100     |
| 138.00 | 27.30 | 199.54# |
| 277.00 | 25.60 | 130.41# |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:50:47 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration



(26) Benzo(g,h,i)perylene

27.530min (+0.018) 0.09ng/ul m

response 2196

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 27.30 | 75.36% |
| 277.00 | 25.60 | 60.42% |
| 0.00   | 0.00  | 0.00   |

JU 10/31/17

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102717\  
 Data File : BE094635.D  
 Acq On : 28 Oct 2017 22:39  
 Operator : SJ/JU  
 Sample : I5842-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 30 04:53:01 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 30 04:29:38 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.90  | 152  | 1780     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.69 | 136  | 10235    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.52 | 164  | 5701     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.26 | 188  | 12063    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.43 | 240  | 12319    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.96 | 264  | 10988m   | 0.40 | ng/ul | 0.00     |

> 10/10/31/17

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152  | 2351     | 0.14 | ng/ul | -0.01    |
| 14) Fluoranthene-d10        | 19.28 | 212  | 6866     | 0.19 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue        |
|----------------------------|-------|------|----------|------|--------|---------------|
| 12) Phenanthrene           | 17.29 | 178  | 3274     | 0.10 | ng/ul# | 91            |
| 15) Fluoranthene           | 19.31 | 202  | 7829     | 0.21 | ng/ul  | 83            |
| 17) Pyrene                 | 19.67 | 202  | 8058     | 0.21 | ng/ul# | 89            |
| 18) Benzo(a)anthracene     | 21.41 | 228  | 3789     | 0.11 | ng/ul# | 77            |
| 19) Chrysene               | 21.46 | 228  | 4929     | 0.14 | ng/ul# | 82            |
| 21) Benzo(b)fluoranthene   | 23.19 | 252  | 6876m    | 0.22 | ng/ul  | } 10/10/31/17 |
| 22) Benzo(k)fluoranthene   | 23.23 | 252  | 2490m    | 0.08 | ng/ul  |               |
| 23) Benzo(a)pyrene         | 23.85 | 252  | 4007m    | 0.13 | ng/ul  |               |
| 24) Indeno(1,2,3-cd)pyrene | 26.69 | 276  | 2604m    | 0.08 | ng/ul  |               |
| 26) Benzo(a,h,i)perylene   | 27.53 | 276  | 2196m    | 0.09 | ng/ul  |               |

(#) = qualifier out of range (m) = manual integration (+) = signals summed