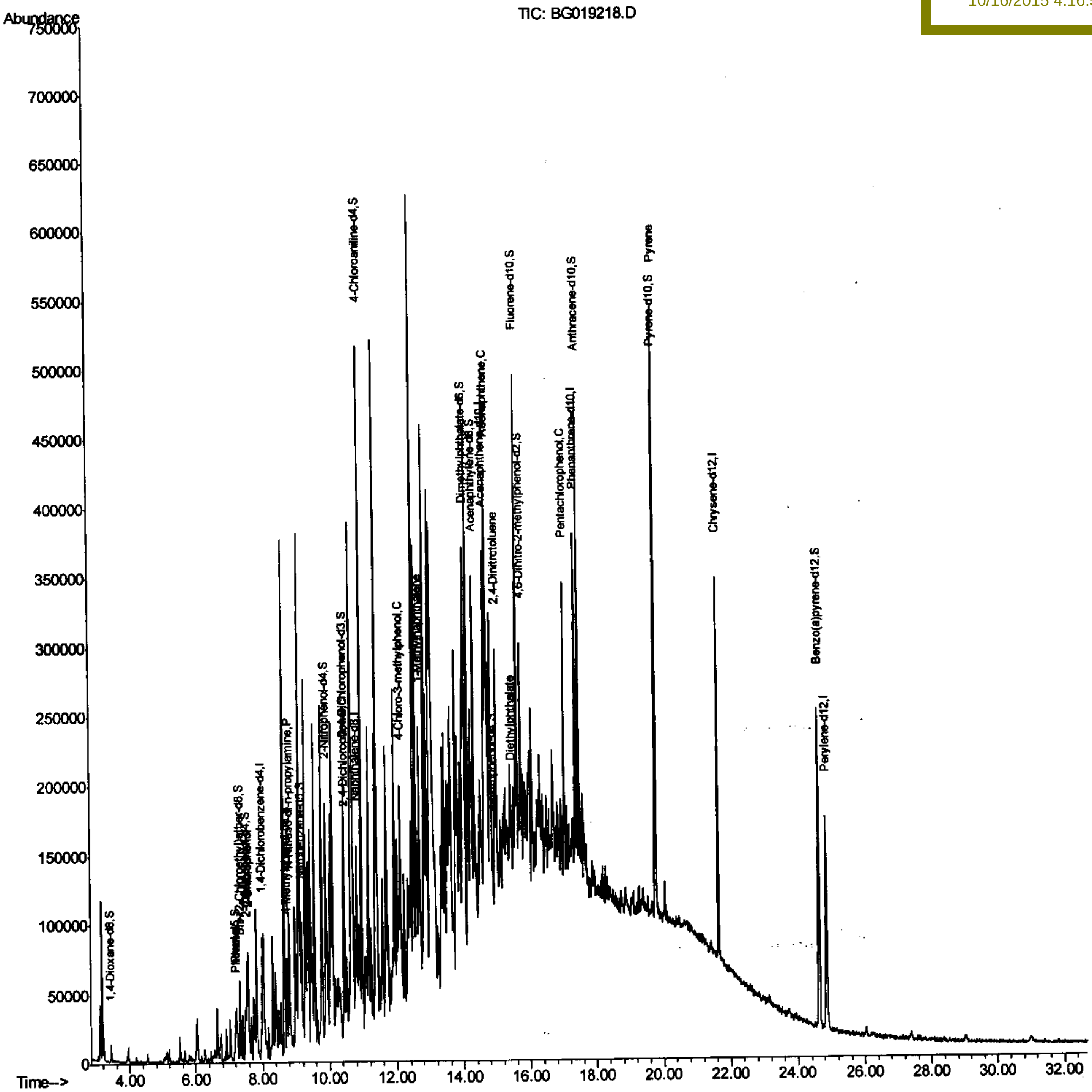
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 08:44:26 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



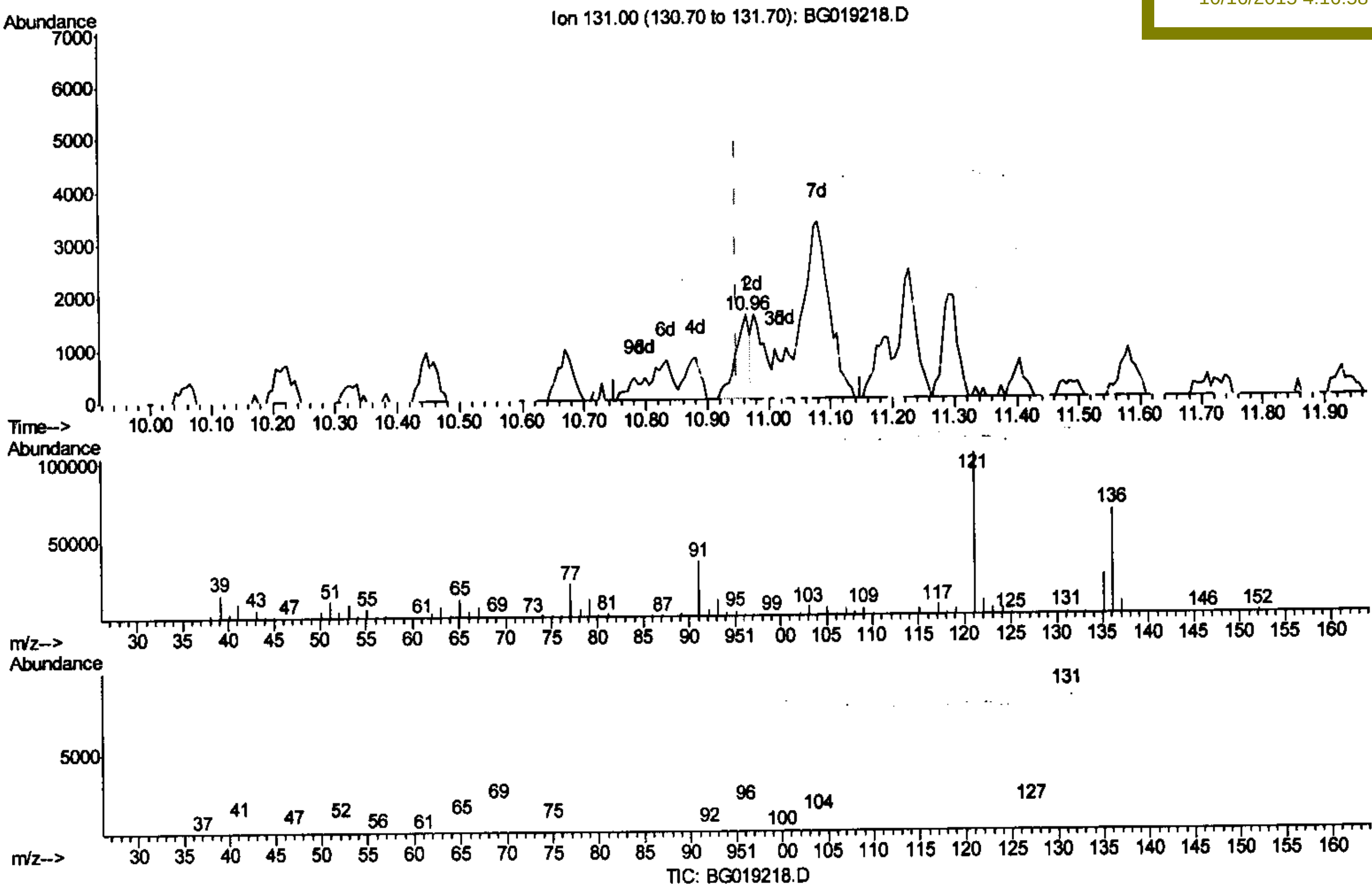
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 08:42:27 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(29) 4-Chloroaniline-d4 (S)

10.963min (+0.015) 1.47ng/ul

response 2619

Ion	Exp%	Act%
131.00	100	100
133.00	31.50	42.85#
69.00	17.00	66.36#
0.00	0.00	0.00

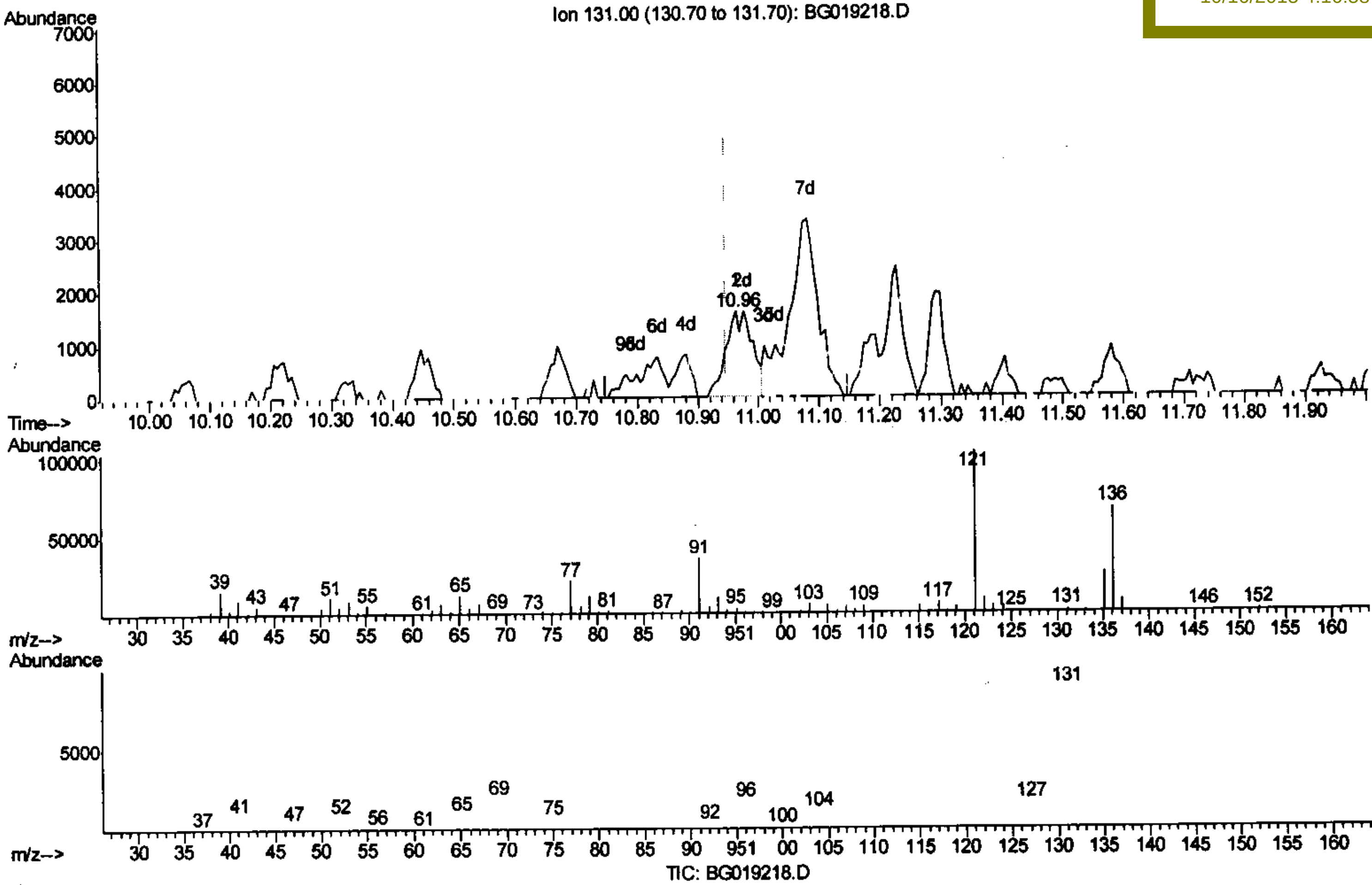
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 05:07:02 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(29) 4-Chloroaniline-d4 (S)

10.963min (+0.015) 2.72ng/ul m U.M 10/19/15

response 4859

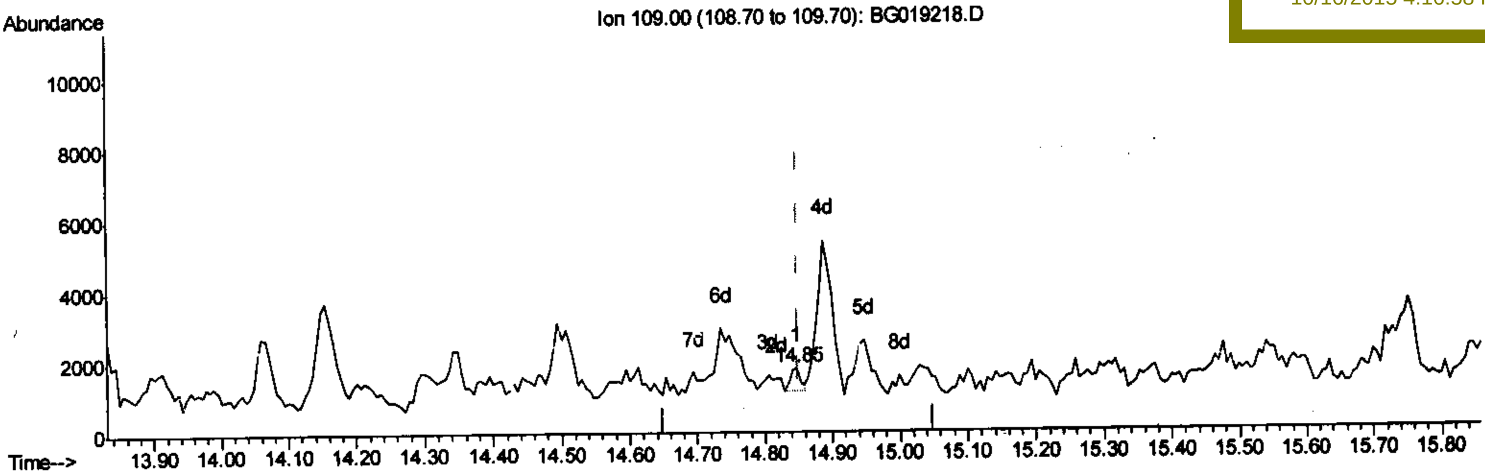
Ion	Exp%	Act%
131.00	100	100
133.00	31.50	42.85#
69.00	17.00	66.36#
0.00	0.00	0.00

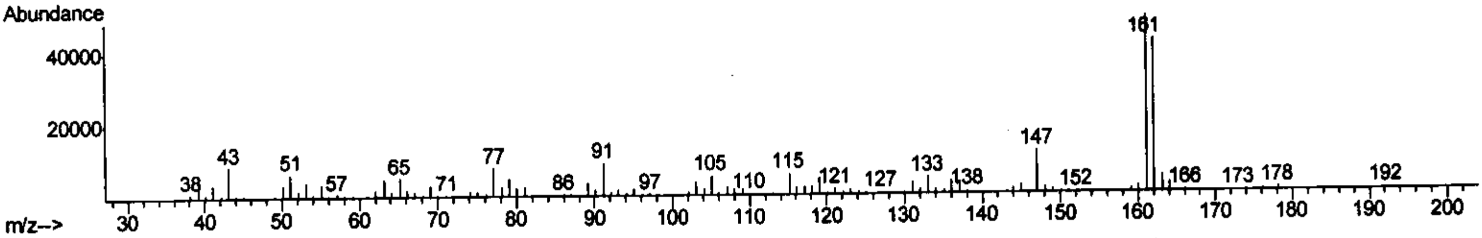
Quantitation Report (Qedit)

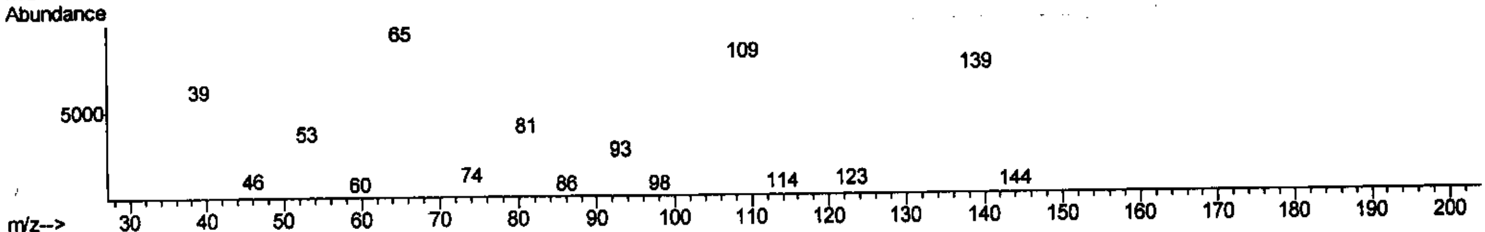
```
Data Path : Z:\HPCHEM1\BNA_G\Data\BG101515\
Data File : BG019218.D
Acq On    : 15 Oct 2015  23:01
Operator  : UM/NP
Sample    : G3966-23MSD
Misc      :
ALS Vial  : 16   Sample Multiplier: 1

Quant Time: Oct 16 05:07:02 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title  : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration
```

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM







TIC: BG019218.D

(53) 4-Nitrophenol

14.847min (-0.003) 0.59ng/ul

response 692

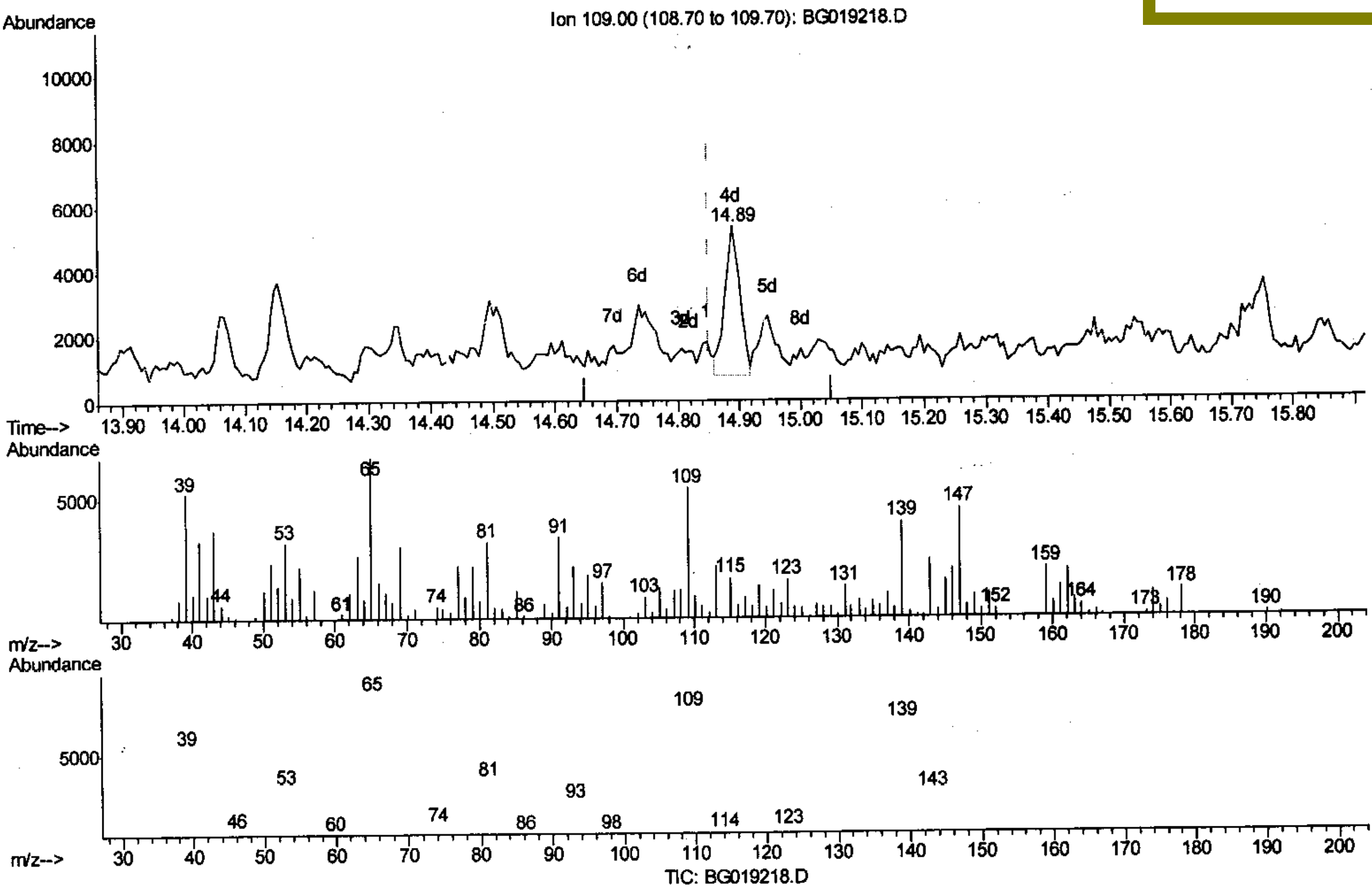
Ion	Exp%	Act%
109.00	100	100
139.00	122.40	15.54#
65.00	146.70	299.34#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : Z:\HPCHEM1\BNA_G\Data\BG101515\
Data File : BG019218.D
Acq On    : 15 Oct 2015   23:01
Operator  : UM/NP
Sample    : G3966-23MSD
Misc      :
ALS Vial  : 16   Sample Multiplier: 1

Quant Time: Oct 16 05:07:02 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title  : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration
```

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(53) 4-Nitrophenol

14.888min (+0.038) 6.64ng/ul m U.M 10/19/19

response 7771

Ion	Exp%	Act%
109.00	100	100
139.00	122.40	73.96#
65.00	146.70	123.45
0.00	0.00	0.00

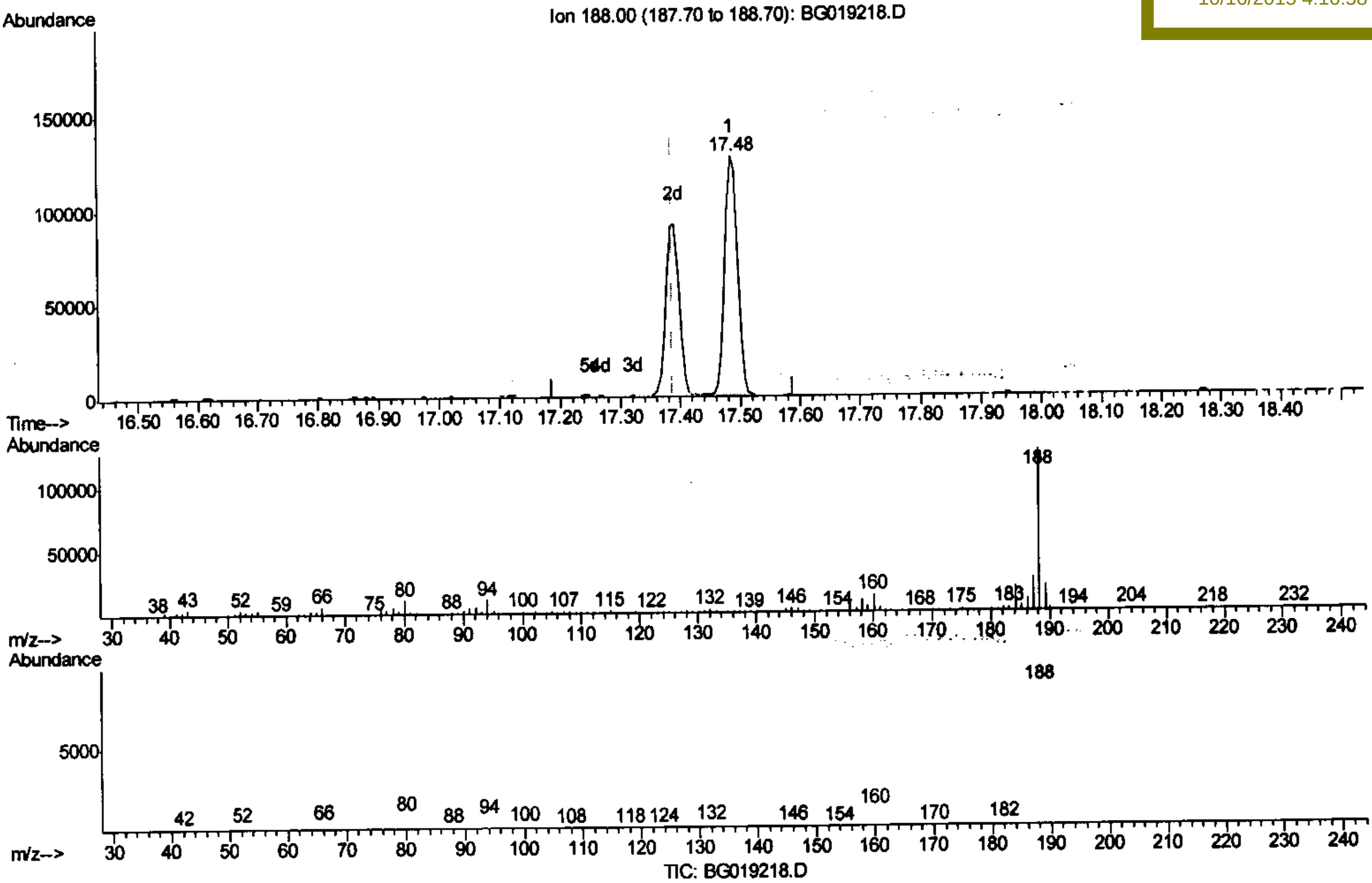
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 04:10:00 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations
APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(62) Phenanthrene-d10 (I)

17.485min (+0.097) 20.00ng/ul

response 189441

Ion	Exp%	Act%
188.00	100	100
94.00	9.20	8.87
80.00	10.90	8.75
0.00	0.00	0.00

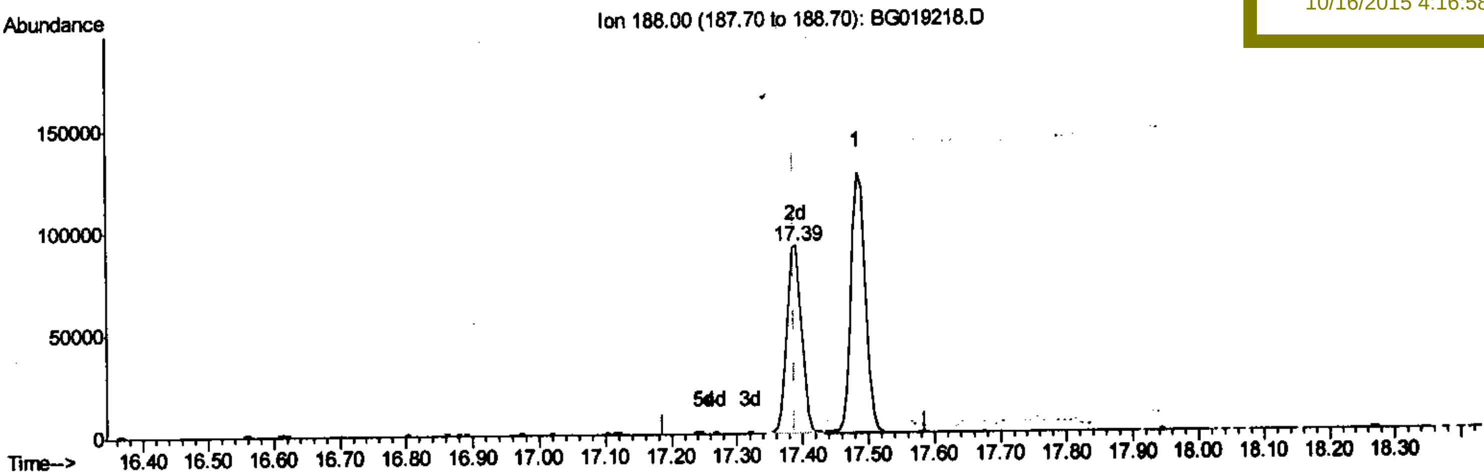
Quantitation Report (Qedit)

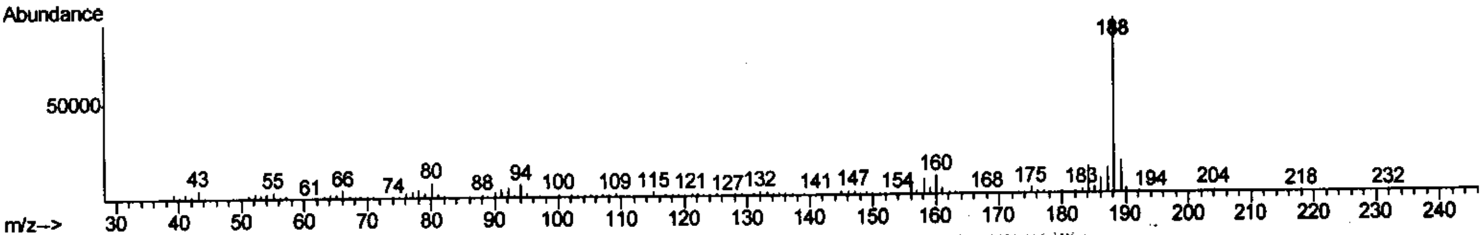
Data Path : Z:\HPCHEM1\BNA G\DATA\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

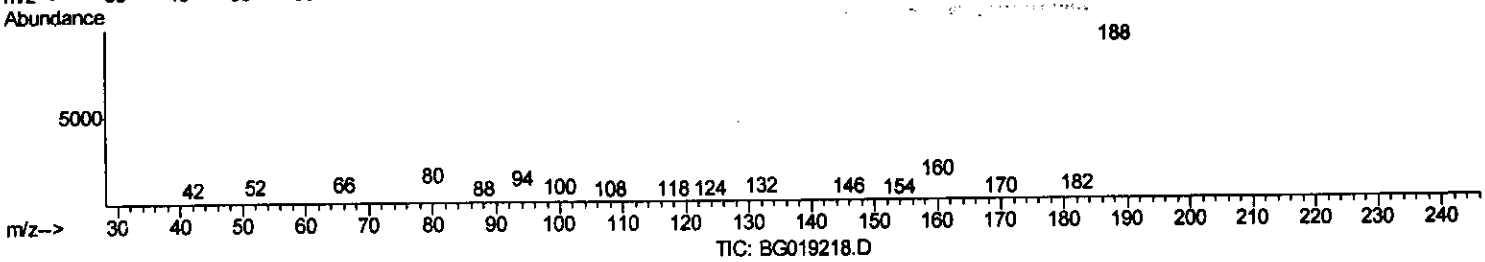
Quant Time: Oct 16 04:10:00 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM







(62) Phenanthrene-d10 (I)

17.391min (+0.003) 20.00ng/ul m U.M 10/19/15

response 142815

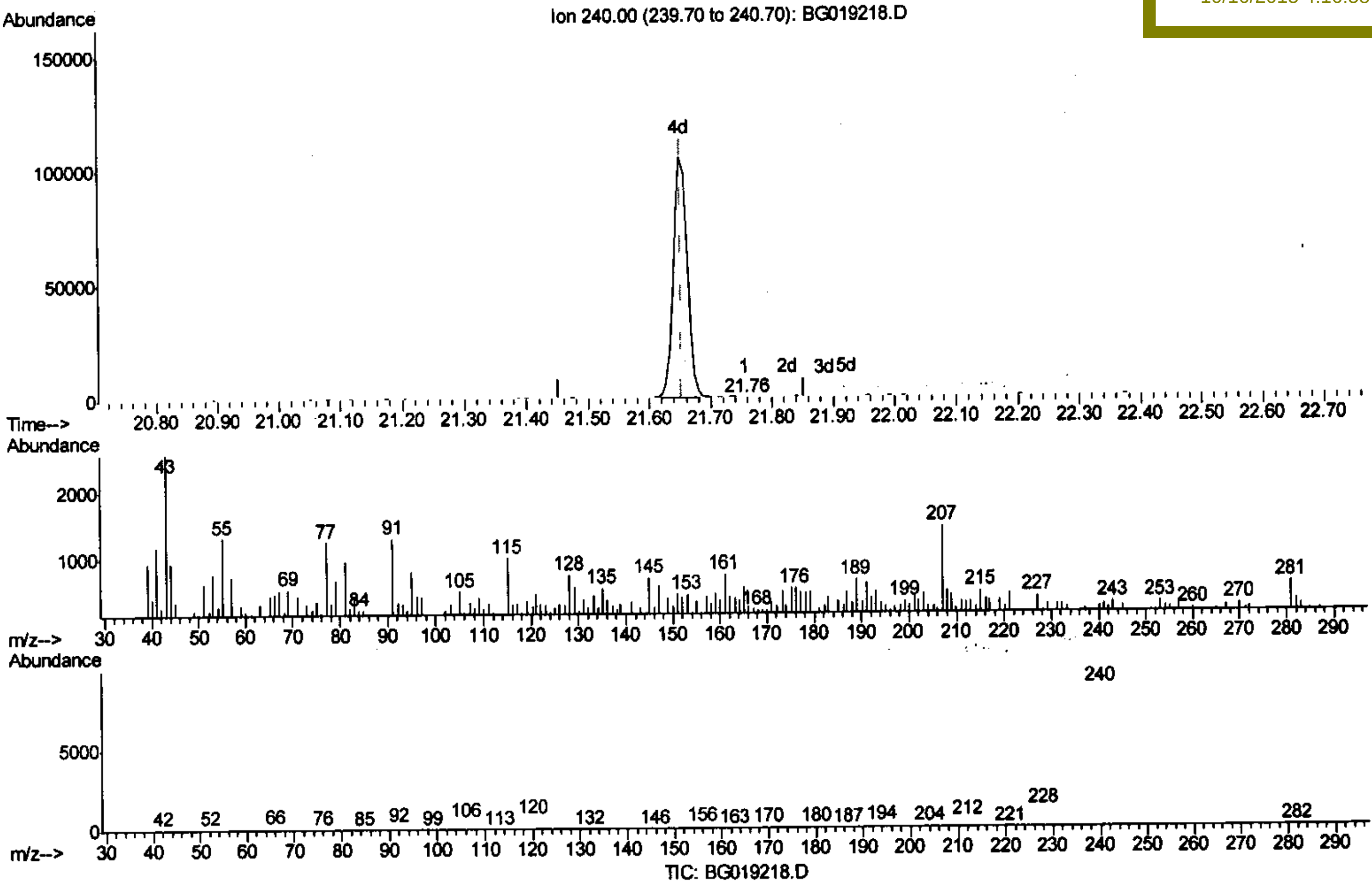
Ion	Exp%	Act%
188.00	100	100
94.00	9.20	7.38
80.00	10.90	8.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : Z:\HPCHEM1\BNA G\DATA\BG101515\
Data File : BG019218.D
Acq On    : 15 Oct 2015   23:01
Operator  : UM/NP
Sample    : G3966-23MSD
Misc      :
ALS Vial  : 16    Sample Multiplier: 1

Quant Time: Oct 16 05:05:21 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title  : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration
```

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(78) Chrysene-d12 (I)

21.756min (+0.103) 20.00ng/ul

response 219

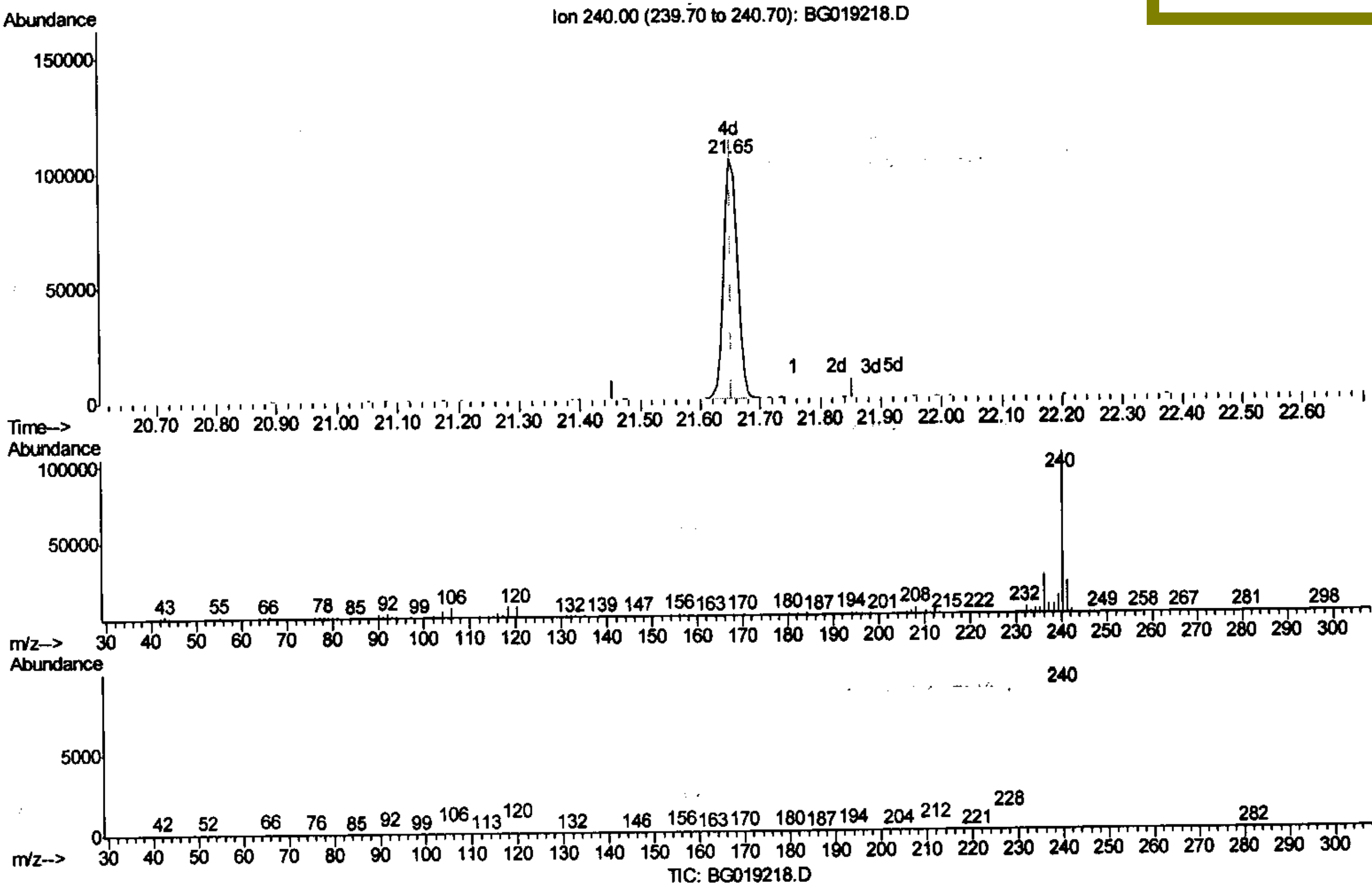
Ion	Exp%	Act%
240.00	100	100
120.00	10.30	111.49#
236.00	26.00	0.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 05:05:21 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(78) Chrysene-d12 (I)
21.651min (-0.003) 20.00ng/ul m UM 10/19/15
response 166446

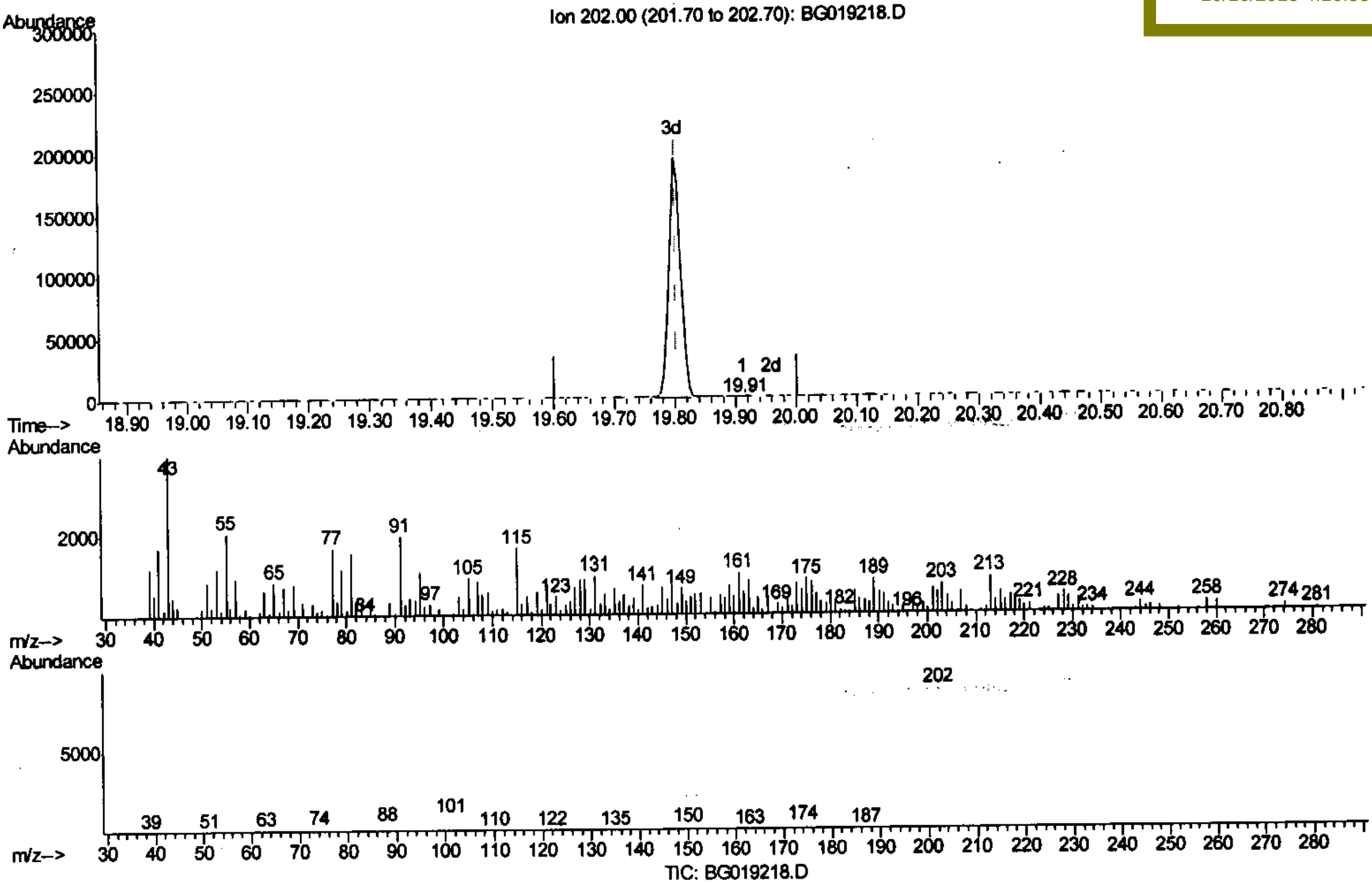
Ion	Exp%	Act%
240.00	100	100
120.00	10.30	6.81#
236.00	26.00	24.20
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : Z:\HPCHEM1\BNA G\DATA\BG101515\
Data File : BG019218.D
Acq On    : 15 Oct 2015   23:01
Operator  : UM/NP
Sample    : G3966-23MSD
Misc      :
ALS Vial  : 16    Sample Multiplier: 1

Quant Time: Oct 16 05:06:21 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title  : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration
```

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(80) Pyrene

19.911min (+0.109) 0.04ng/ul

response 352

Ion	Exp%	Act%
202.00	100	100
101.00	12.70	0.00#
100.00	10.60	0.00#
0.00	0.00	0.00

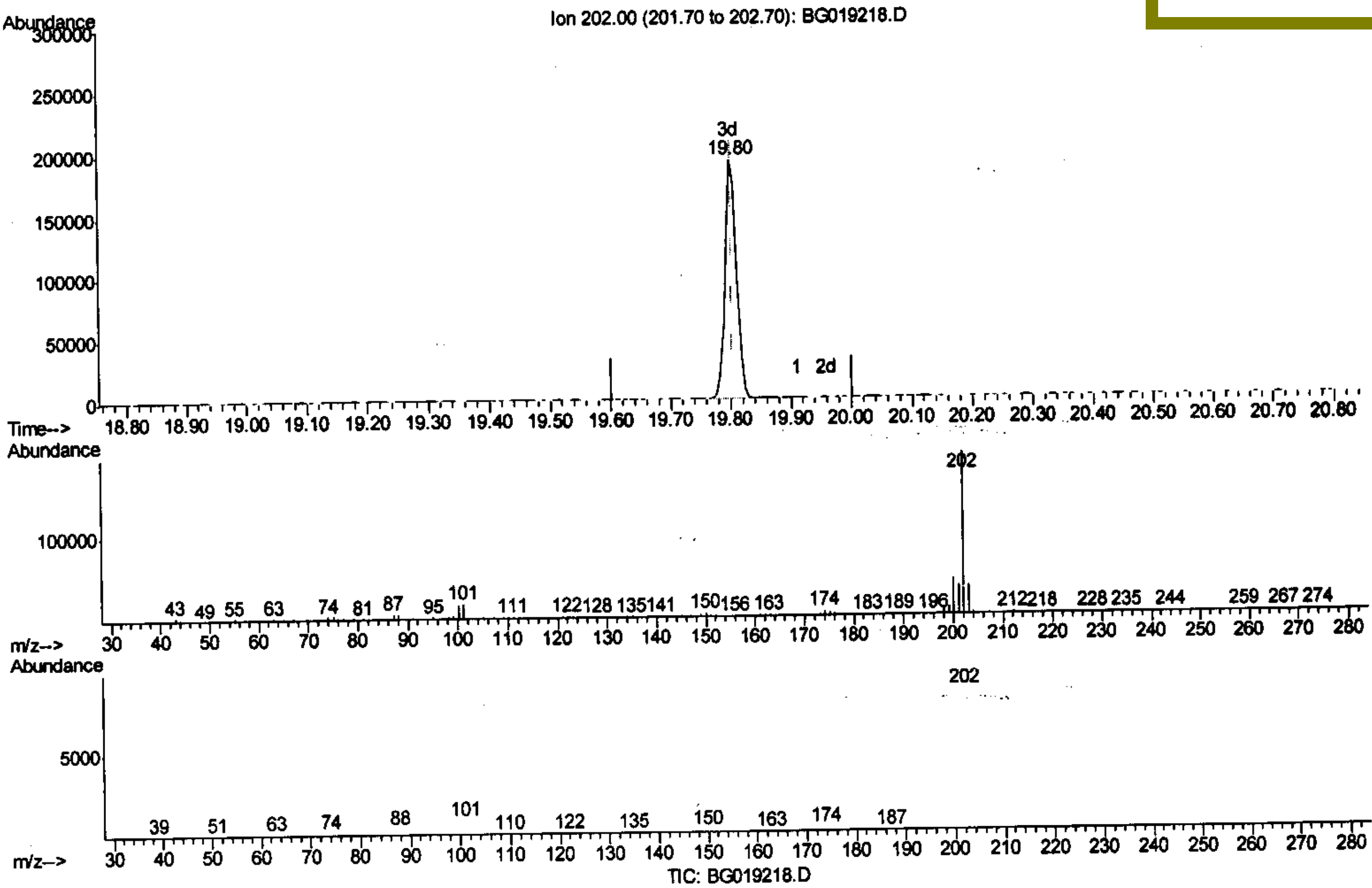
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 05:06:21 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



TIC: BG019218.D

(80) Pyrene
19.800min (-0.003) 26.37ng/ul m U.M 10/19/15
response 260533

Ion	Exp%	Act%
202.00	100	100
101.00	12.70	9.20#
100.00	10.60	8.29#
0.00	0.00	0.00

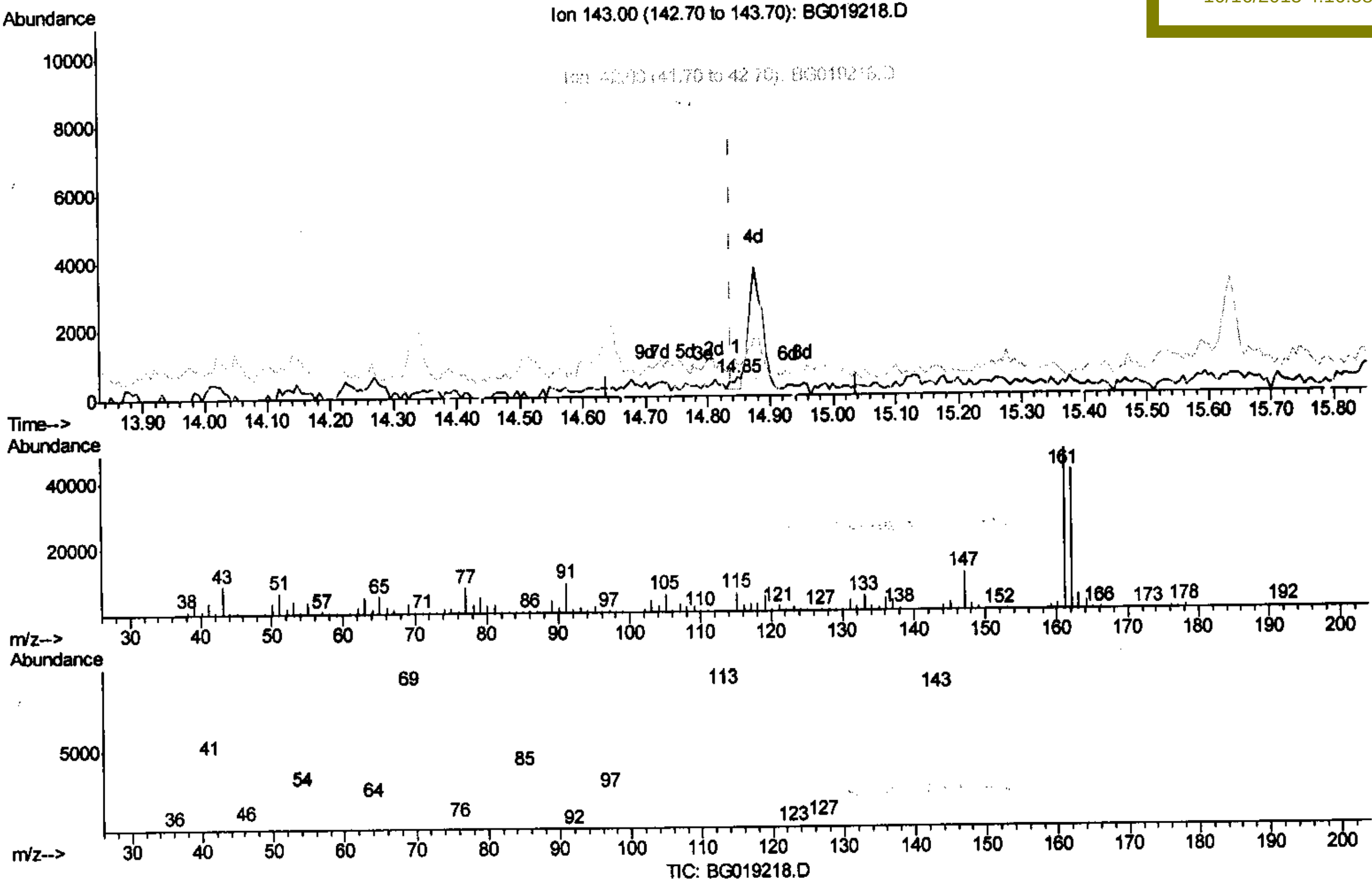
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 04:10:00 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(52) 4-Nitrophenol-d4 (S)

14.847min (+0.009) 0.37ng/ul

response 392

Ion	Exp%	Act%
143.00	100	100
113.00	73.80	92.35#
41.00	46.80	694.59#
42.00	29.50	165.30#

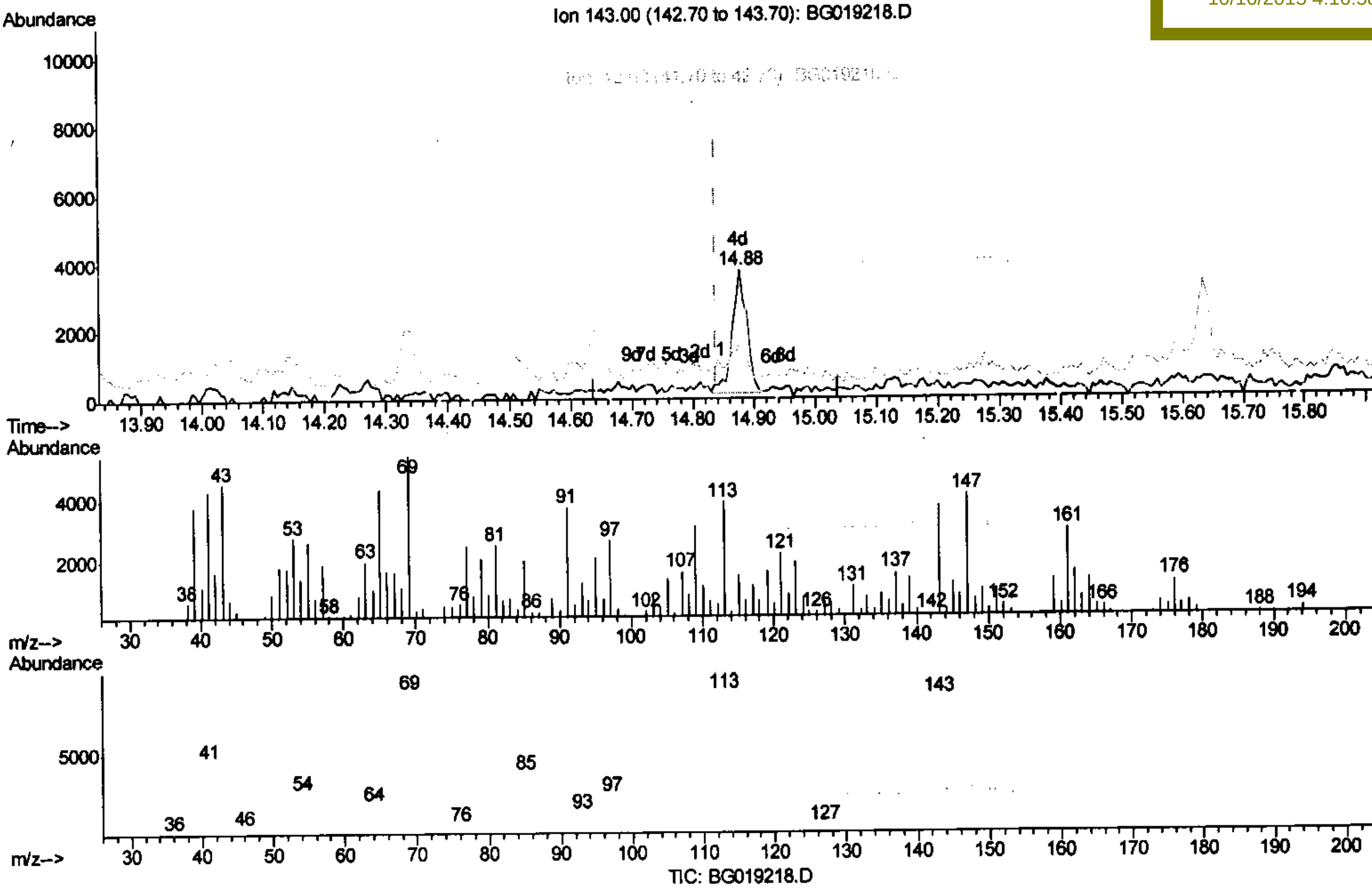
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 16 04:10:00 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM



(52) 4-Nitrophenol-d4 (S)

14.876min (+0.038) 5.53ng/ul m U.M 10/19/15

response 5922

Ion	Exp%	Act%
143.00	100	100
113.00	73.80	103.60#
41.00	46.80	114.51#
42.00	29.50	44.18#

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101515\
Data File : BG019218.D
Acq On : 15 Oct 2015 23:01
Operator : UM/NP
Sample : G3966-23MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
E5LJ5MSD

Manual Integrations APPROVED
MMdadoda
10/16/2015 4:16:58 PM

Quant Time: Oct 16 08:44:26 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Oct 16 04:07:16 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.01	152	18377	20.00 ng/ul	0.00
18) Naphthalene-d8	10.82	136	85622	20.00 ng/ul	0.00
36) Acenaphthene-d10	14.64	164	68116	20.00 ng/ul	0.00
62) Phenanthrene-d10	17.39	188	142815m	20.00 ng/ul	0.00
78) Chrysene-d12	21.65	240	166446m	20.00 ng/ul	0.00
86) Perylene-d12	24.85	264	165666	20.00 ng/ul	0.00

UM 10/19/15

System Monitoring Compounds	R.T.	QIon	Response	Conc Units	Dev(Min)
3) 1,4-Dioxane-d8	3.44	96	3408	10.33 ng/uL	0.00
5) Phenol-d5	7.19	99	10582	6.60 ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.33	67	25945	25.14 ng/ul	0.00
9) 2-Chlorophenol-d4	7.54	132	27946	23.91 ng/ul	0.00
13) 4-Methylphenol-d8	8.74	113	21373	15.73 ng/ul	0.02
19) Nitrobenzene-d5	9.17	128	17575	26.64 ng/ul	0.00
22) 2-Nitrophenol-d4	9.89	143	20191	28.84 ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.45	165	38658	27.88 ng/ul	0.00
29) 4-Chloroaniline-d4	10.96	131	4859m	2.72 ng/ul	0.01
44) Dimethylphthalate-d6	14.05	166	140123	23.52 ng/ul	0.00
47) Acenaphthylene-d8	14.34	160	156289	24.27 ng/ul	0.00
52) 4-Nitrophenol-d4	14.88	143	5922m	5.53 ng/ul	0.04
58) Fluorene-d10	15.63	176	121761	23.91 ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.75	200	27030	30.68 ng/ul	0.00
71) Anthracene-d10	17.48	188	189104	28.03 ng/ul	0.00
79) Pyrene-d10	19.77	212	215060	28.49 ng/ul	0.00
90) Benzo(a)pyrene-d12	24.64	264	240409	28.73 ng/ul	0.00

UM 10/19/15

Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
6) Phenol	7.21	94	11499	6.89 ng/ul#	81
10) 2-Chlorophenol	7.58	128	27640	23.03 ng/ul	94
15) N-Nitroso-di-n-propylamine	8.81	70	30580	26.09 ng/ul	88
27) 2,4-Dichlorophenol	10.46	162	4843	3.46 ng/ul#	49
33) 4-Chloro-3-methylphenol	12.11	107	44522	25.24 ng/ul	87
35) 1-Methylnaphthalene	12.68	142	6221	1.79 ng/ul#	86
50) Acenaphthene	14.71	153	106012	22.29 ng/ul	96
53) 4-Nitrophenol	14.89	109	7771m	6.64 ng/ul	
55) 2,4-Dinitrotoluene	15.01	165	40847	22.00 ng/ul#	84
57) Diethylphthalate	15.46	149	12625	2.03 ng/ul#	88
69) Pentachlorophenol	17.04	266	34993	36.39 ng/ul	94
80) Pyrene	19.80	202	260533m	26.37 ng/ul	

UM 10/19/15

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