

(QT/LSC Reviewed)

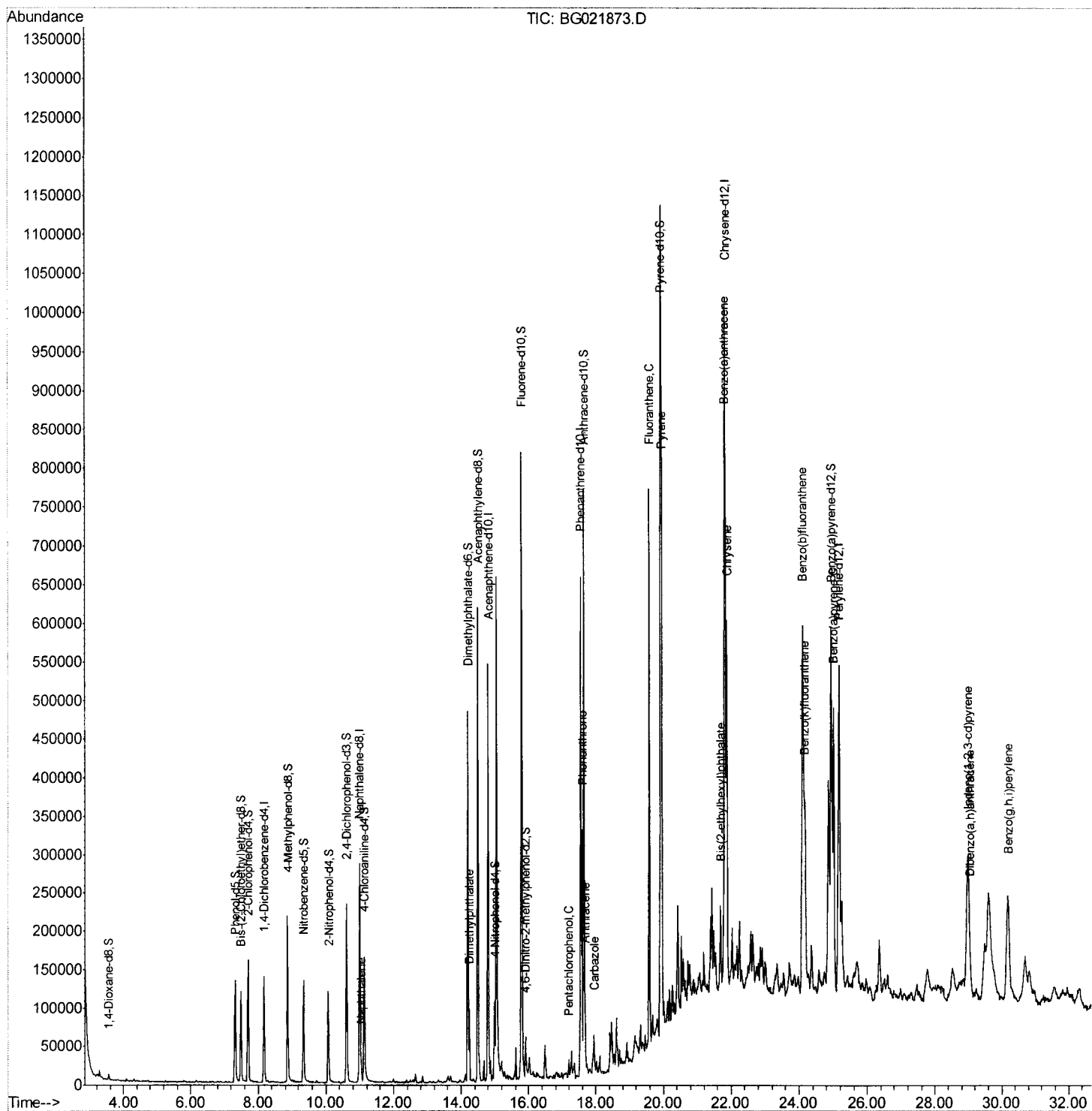
```
Data Path   : Z:\HPCHEM1\BNA_G\Data\BG051216\  
Data File  : BG021873.D  
Acq On     : 12 May 2016   17:54  
Operator   : UM/SJ  
Sample     : H2936-11  
Misc       :  
ALS Vial   : 9      Sample Multiplier: 1
```

Instrument :
BNA_G
ClientSampleId :
D9WK0

Manual Integrations APPROVED

sohil
5/13/2016 8:11:52 PM

Quant Time: May 13 12:27:17 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri May 13 04:58:59 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

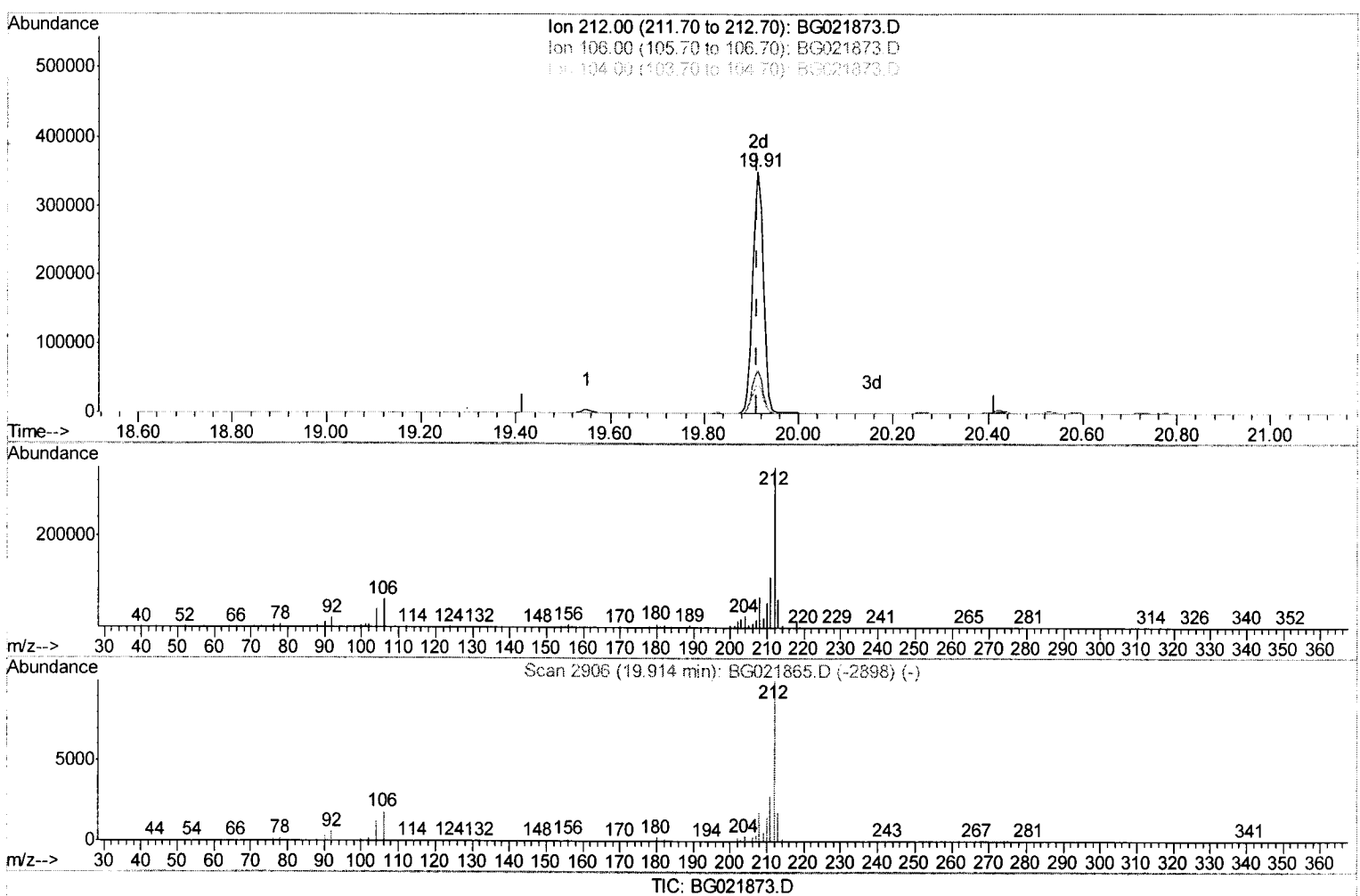
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Manual Integrations
 APPROVED

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 5/13/2016 8:11:52 PM

Quant Time: May 13 06:50:54 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 13 04:58:59 2016
 Response via : Initial Calibration



(77) Pyrene-d10 (S)

19.914min (+0.001) 26.27ng/ul m

response 557072

Ion	Exp%	Act%
212.00	100	100
106.00	15.30	17.71
104.00	9.40	12.03#
0.00	0.00	0.00

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Quantitation Report (Qedit)

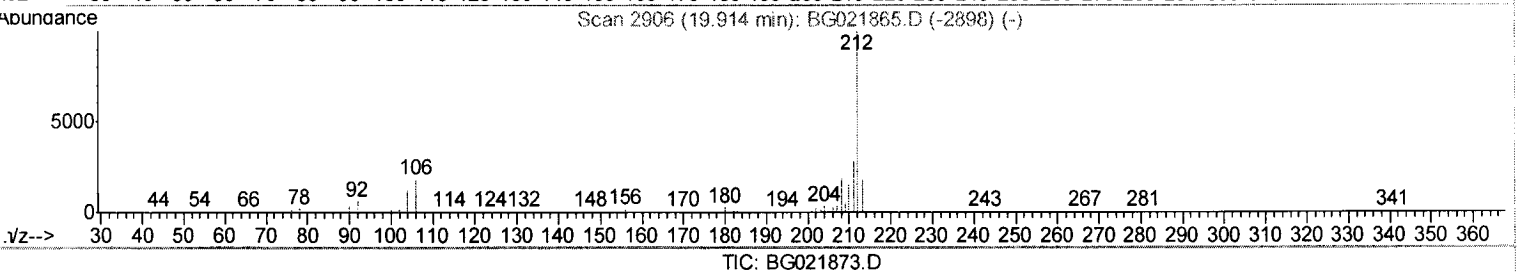
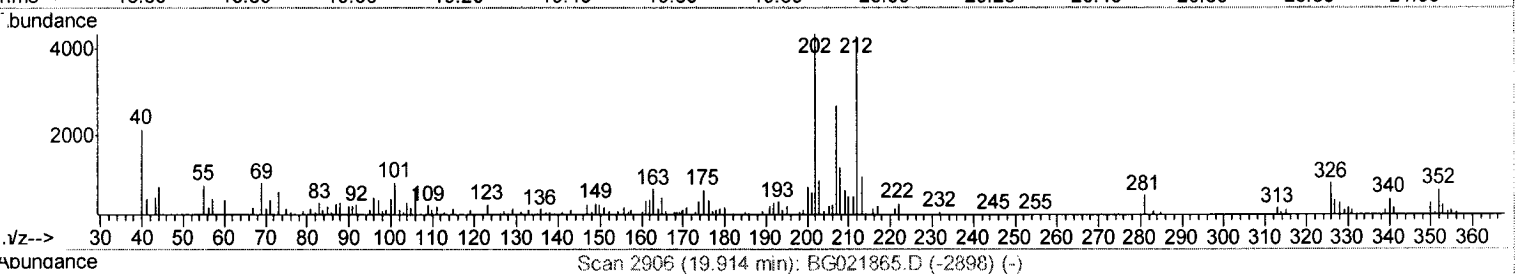
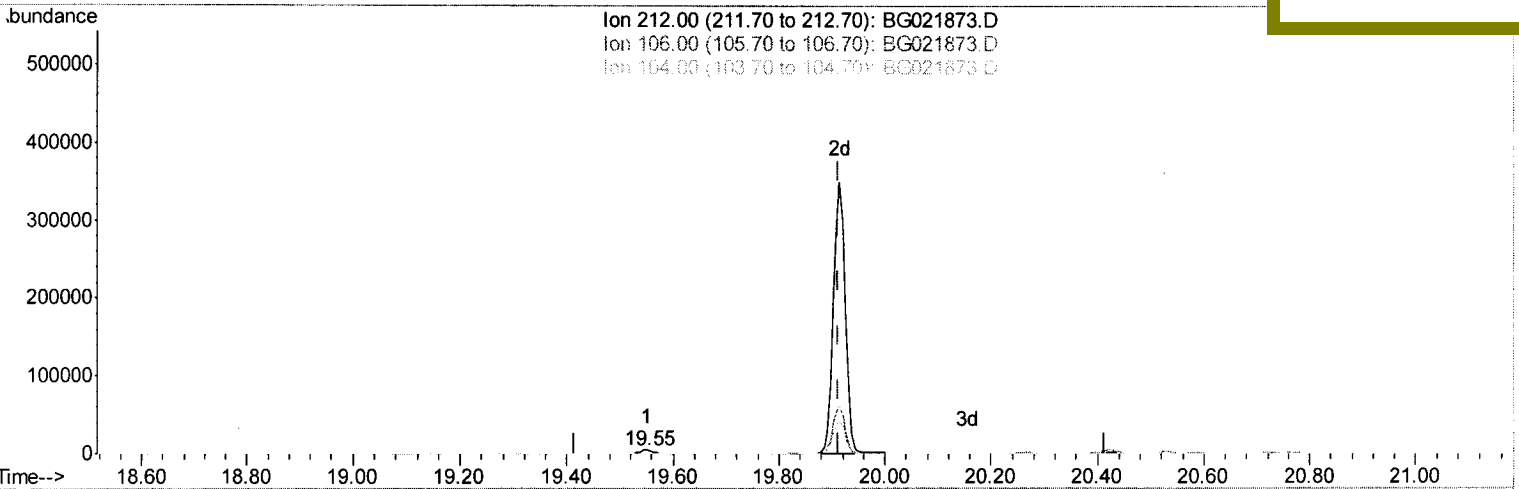
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Quant Time: May 13 06:50:54 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
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Manual Integrations
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(77) Pyrene-d10 (S)

19.550min (-0.363) 0.34ng/ul

response 7297

Ion	Exp%	Act%
212.00	100	100
106.00	15.30	17.46
104.00	9.40	10.18
0.00	0.00	0.00

Quantitation Report (Qedit)

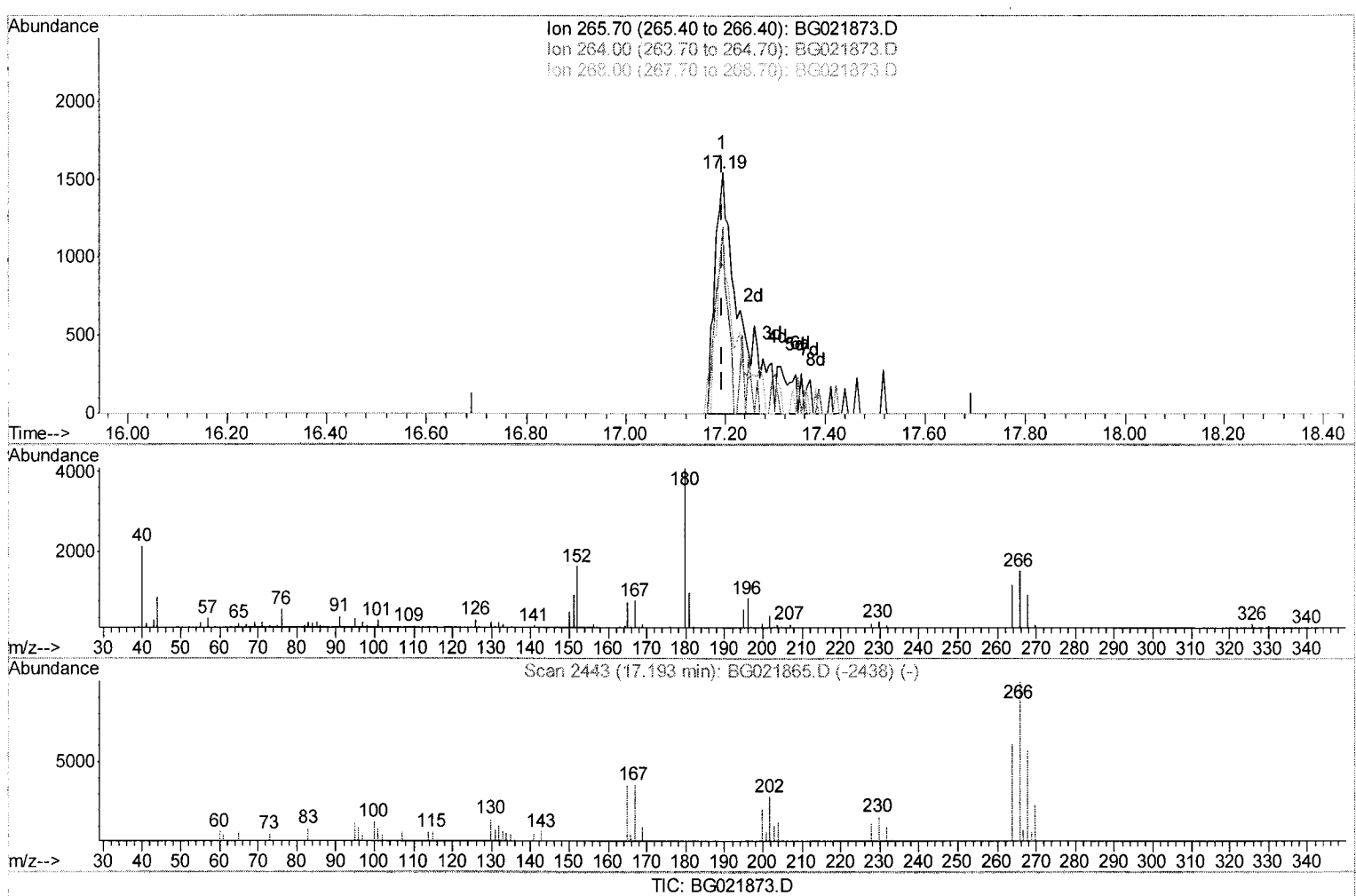
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Manual Integrations
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Quant Time: May 13 06:50:54 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
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(69) Pentachlorophenol (C)

17.194min (+0.001) 2.51ng/ul m

response 5223

Ion	Exp%	Act%
265.70	100	100
264.00	70.90	77.08
268.00	63.30	61.39
0.00	0.00	0.00

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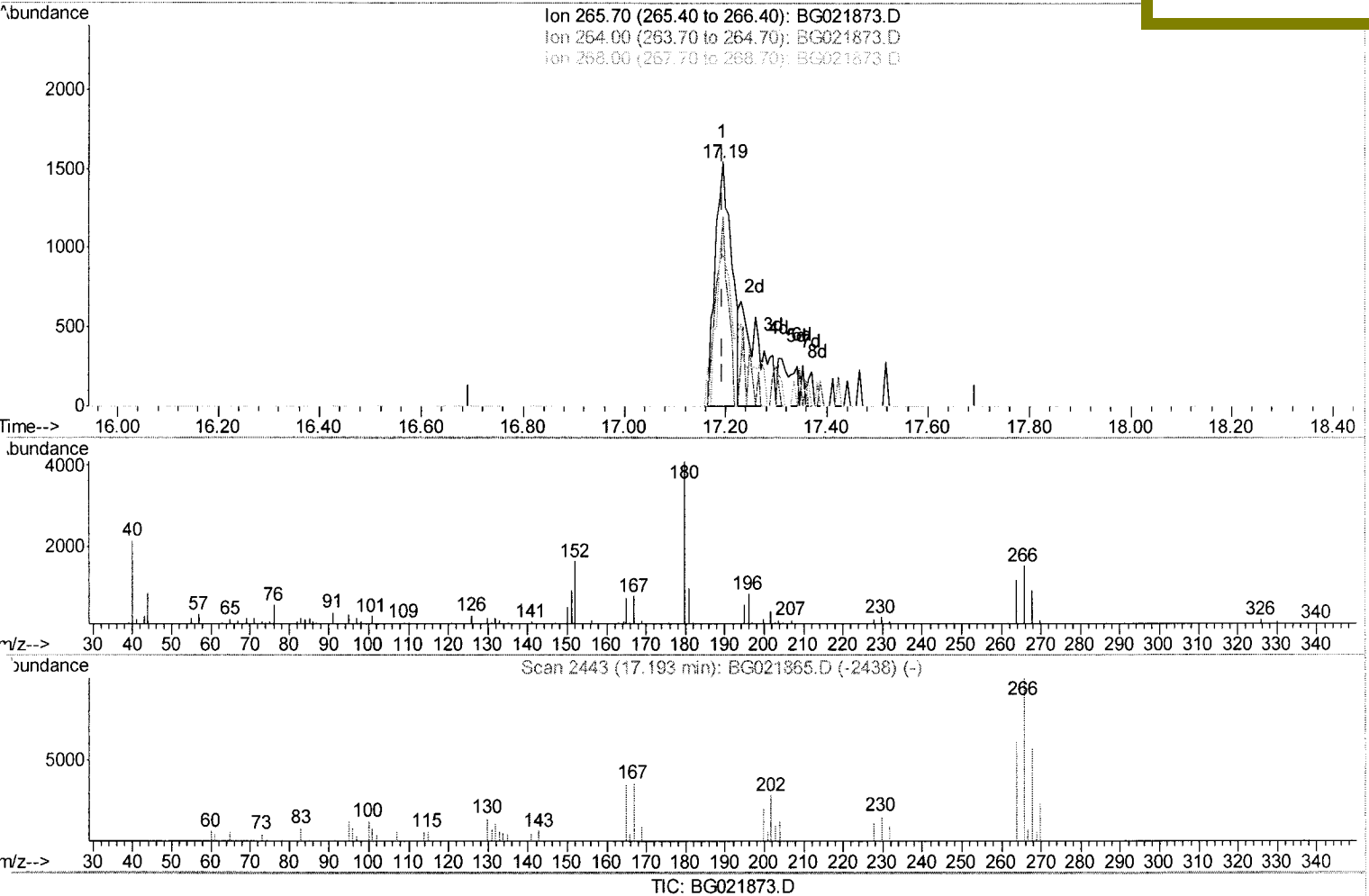
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051216\
Data File : BG021873.D
Acq On : 12 May 2016 17:54
Operator : UM/SJ
Sample : H2936-11
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
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Manual Integrations
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(69) Pentachlorophenol (C)

17.194min (+0.001) 1.69ng/ul

response 3501

Ion	Exp%	Act%
265.70	100	100
264.00	70.90	77.08
268.00	63.30	61.39
0.00	0.00	0.00

Quantitation Report (Qedit)

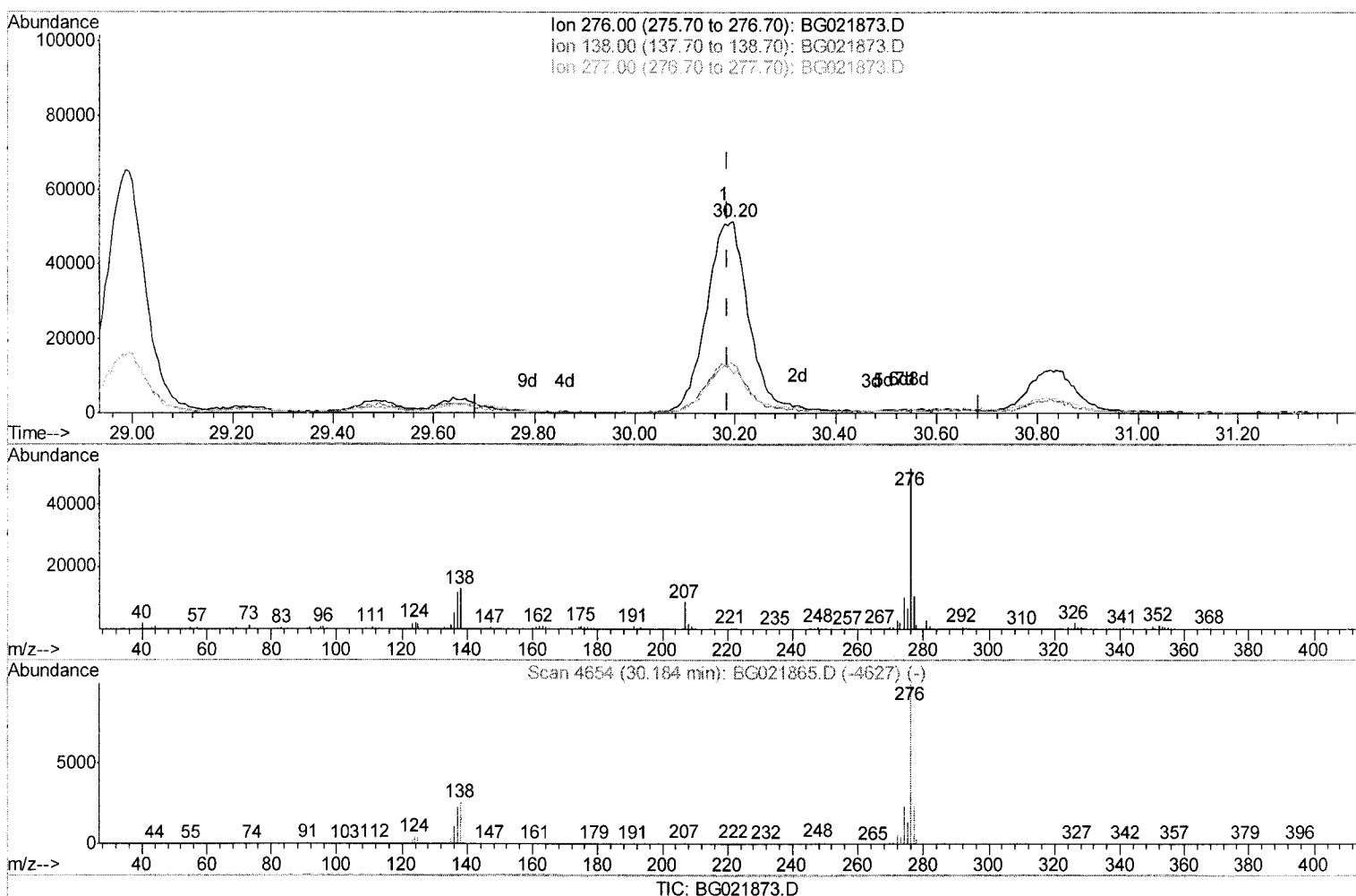
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
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Manual Integrations
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Quant Time: May 13 05:01:10 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 13 04:58:59 2016
 Response via : Initial Calibration



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

30.196min (+0.013) 11.82ng/ul m

response 306094

Ion	Exp%	Act%
276.00	100	100
138.00	17.40	25.25#
277.00	24.70	21.03
0.00	0.00	0.00

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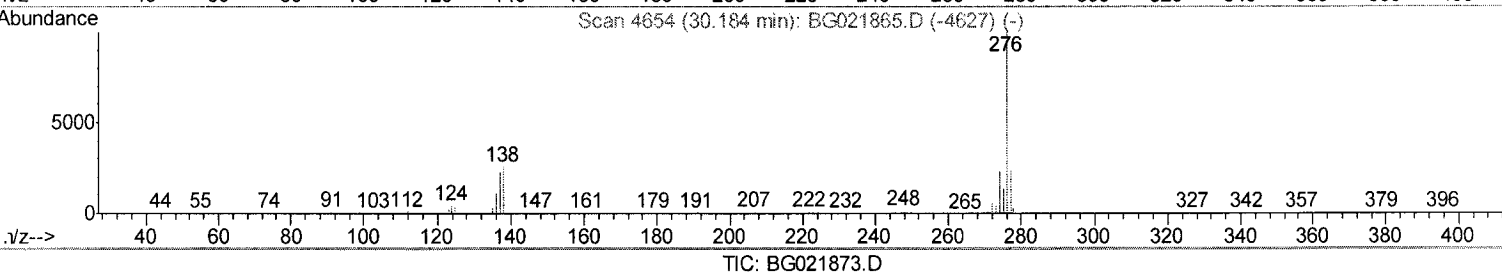
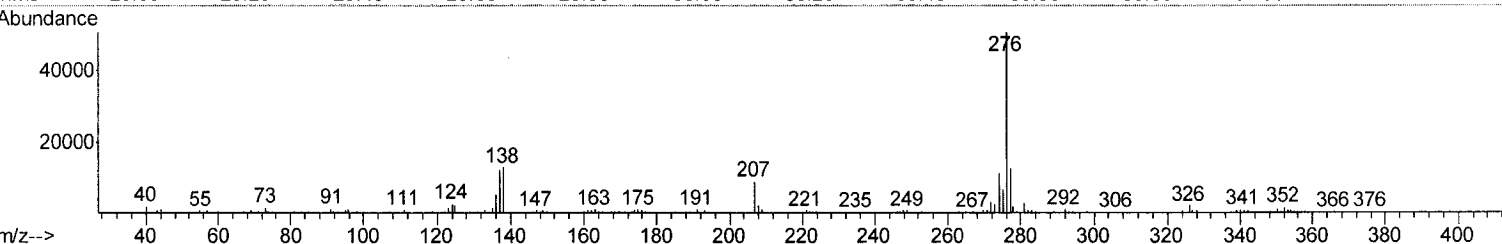
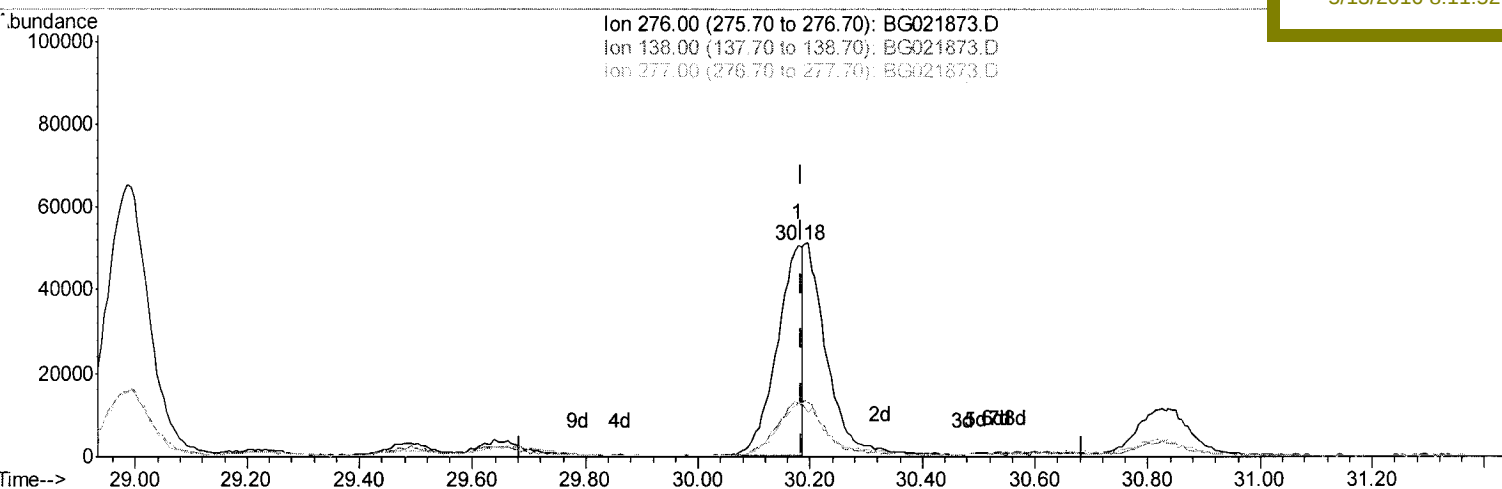
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021873.D
Acq On : 12 May 2016 17:54
Operator : UM/SJ
Sample : H2936-11
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9WK0

Manual Integrations
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(92) Benzo(g,h,i)perylene

30.179min (-0.005) 6.02ng/ul

response 155881

Ion	Exp%	Act%
276.00	100	100
138.00	17.40	25.28#
277.00	24.70	25.18
0.00	0.00	0.00

Quantitation Report (Qedit)

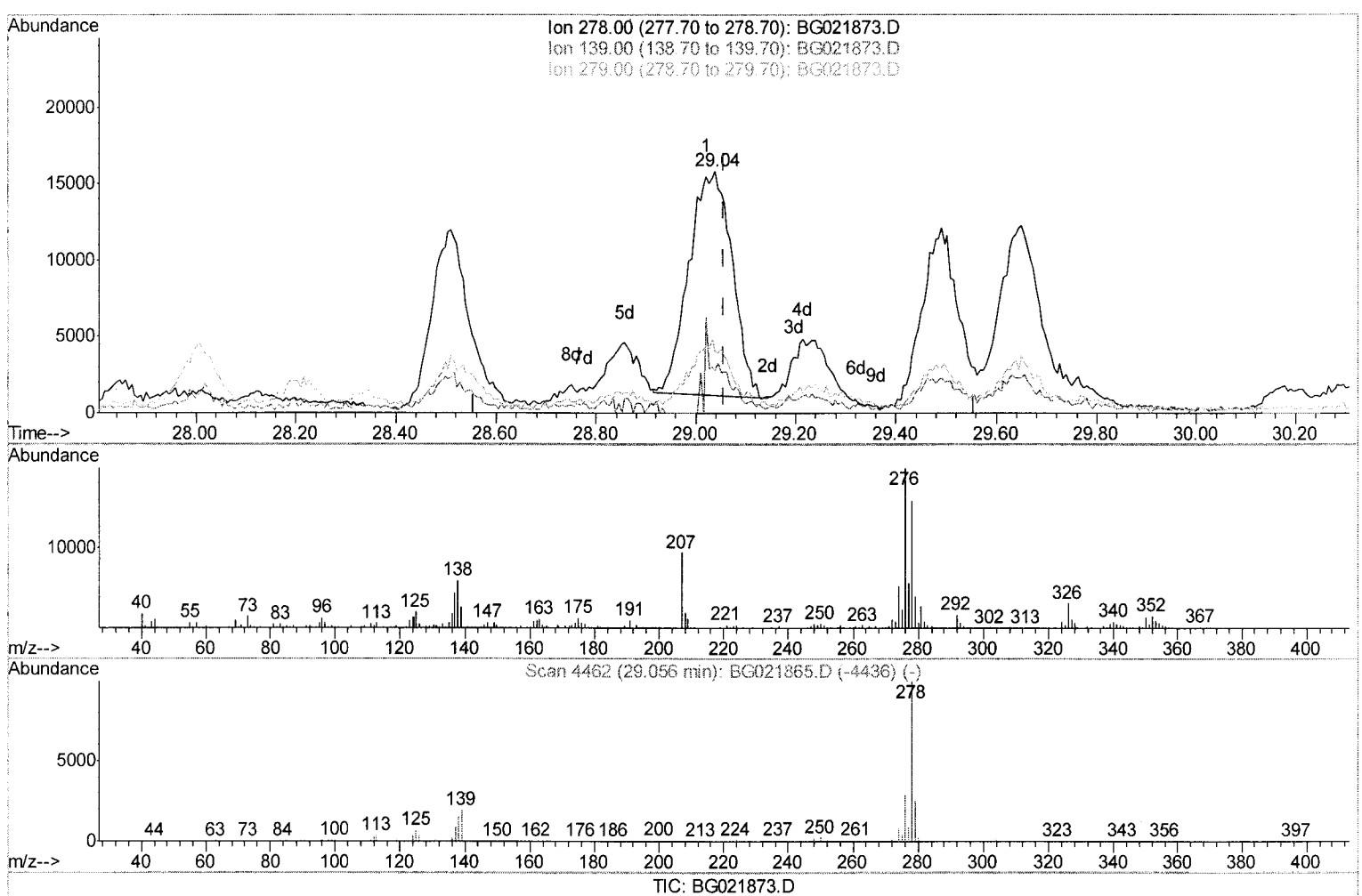
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampled :
 D9WK0

Manual Integrations
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Quant Time: May 13 05:01:10 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
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 QLast Update : Fri May 13 04:58:59 2016
 Response via : Initial Calibration



(91) Dibenzo(a,h)anthracene

29.039min (-0.017) 3.35ng/ul m

response 87446

Ion	Exp%	Act%
278.00	100	100
139.00	15.10	17.70
279.00	24.80	26.01
0.00	0.00	0.00

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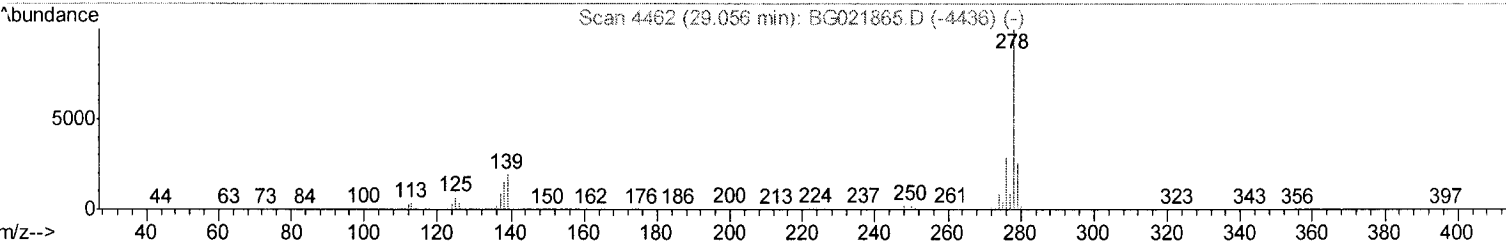
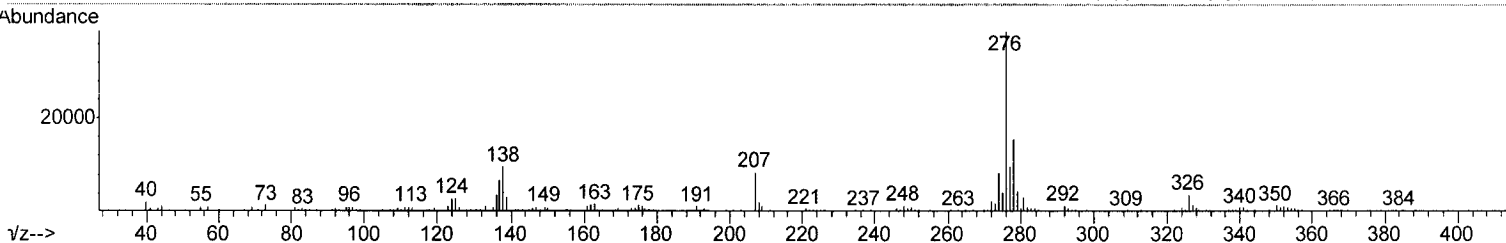
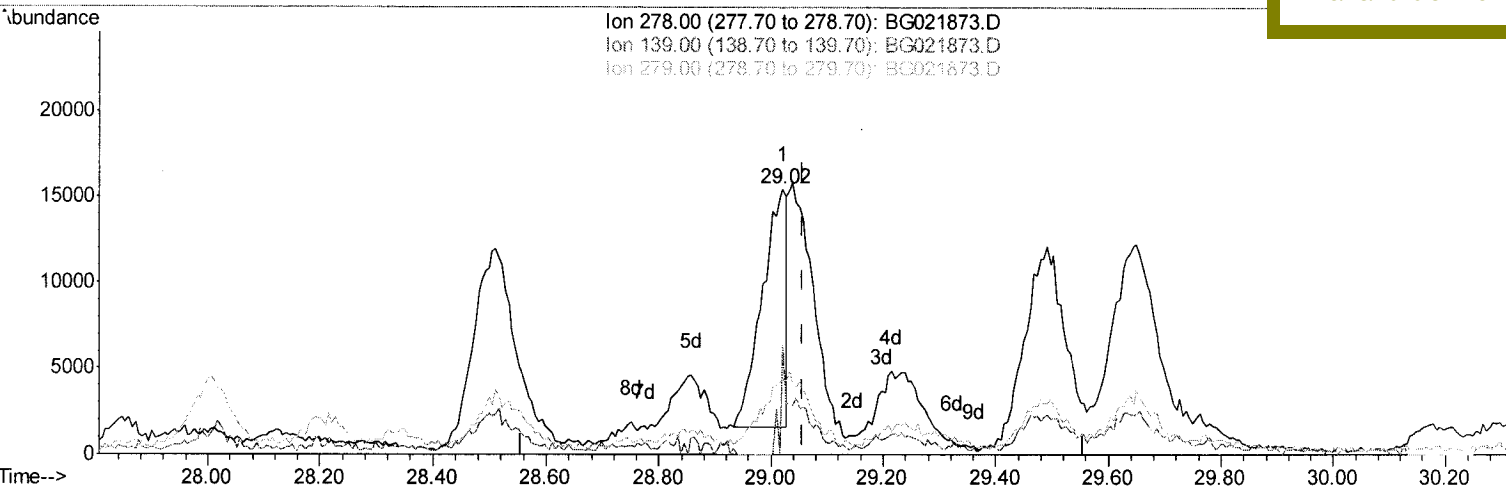
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Quant Time: May 13 05:01:10 2016
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Manual Integrations
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TIC: BG021873.D

(91) Dibenzo(a,h)anthracene

29.021min (-0.034) 1.61ng/ul

response 41966

Ion	Exp%	Act%
278.00	100	100
139.00	15.10	40.99#
279.00	24.80	27.91
0.00	0.00	0.00

Quantitation Report (Qedit)

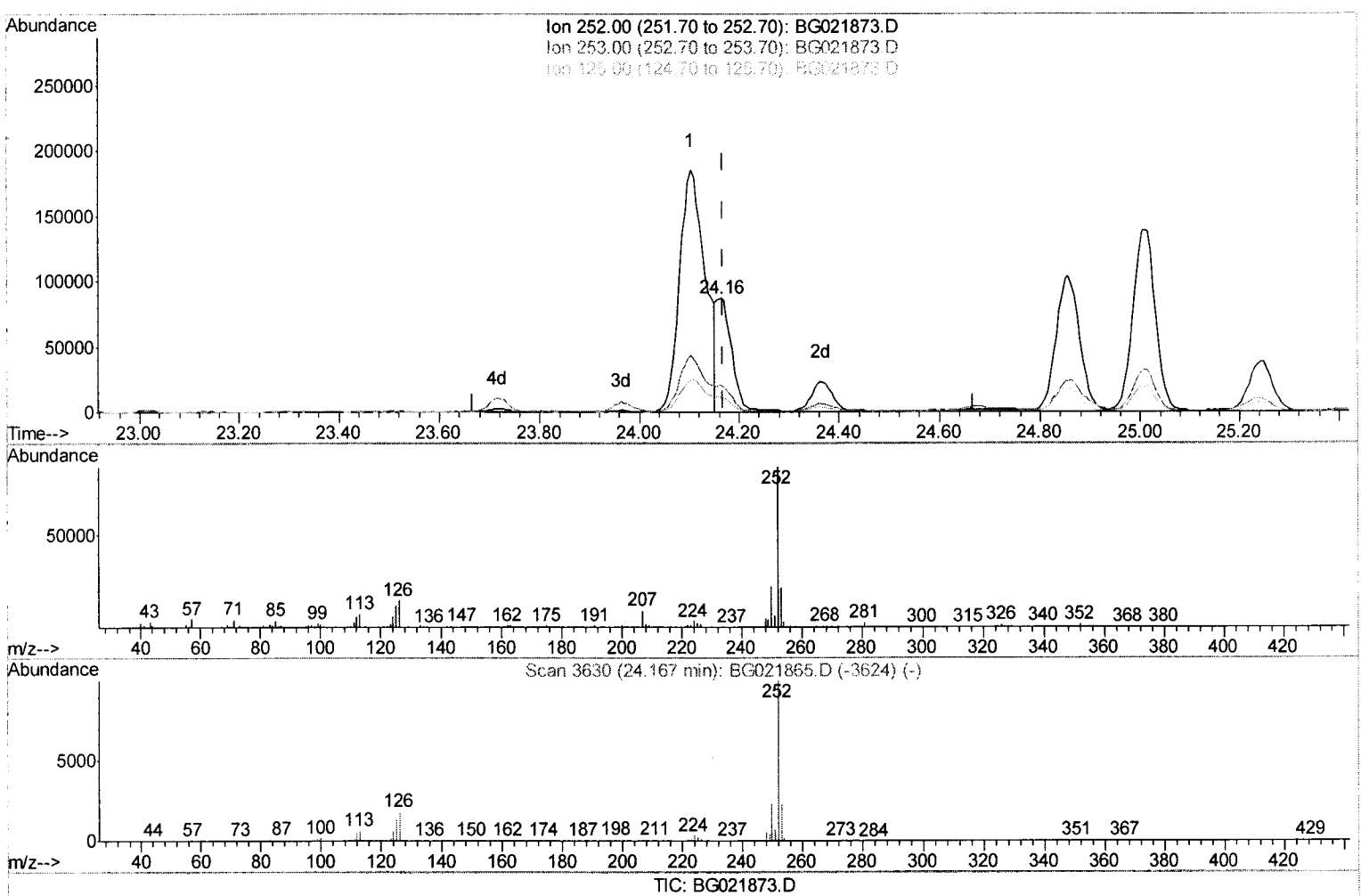
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Manual Integrations
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Quant Time: May 13 05:01:10 2016
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(87) Benzo(k)fluoranthene

24.162min (-0.005) 6.46ng/ul m

response 183883

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	24.50
125.00	9.60	14.09#
0.00	0.00	0.00

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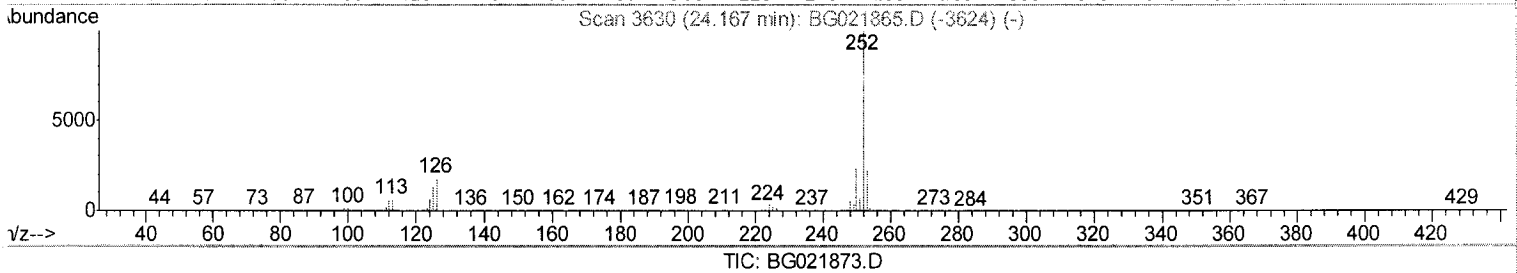
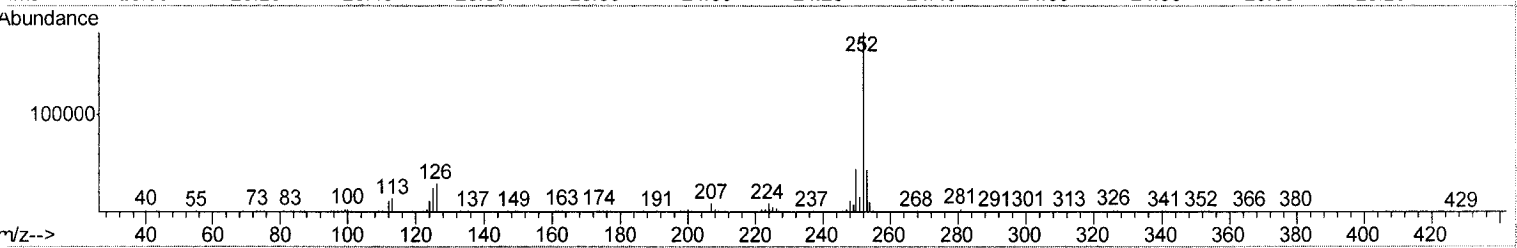
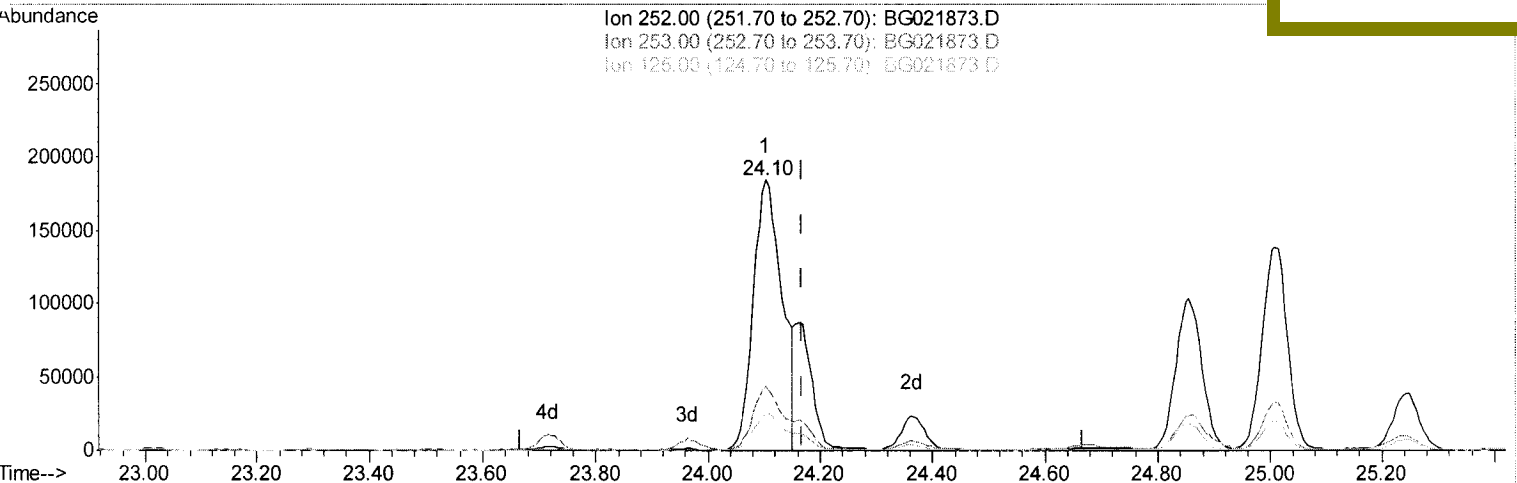
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021873.D
Acq On : 12 May 2016 17:54
Operator : UM/SJ
Sample : H2936-11
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9WK0

Quant Time: May 13 05:01:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
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Manual Integrations
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(87) Benzo(k)fluoranthene

24.104min (-0.064) 23.16ng/ul

response 659331

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.60
125.00	9.60	13.37#
0.00	0.00	0.00

Quantitation Report (Qedit)

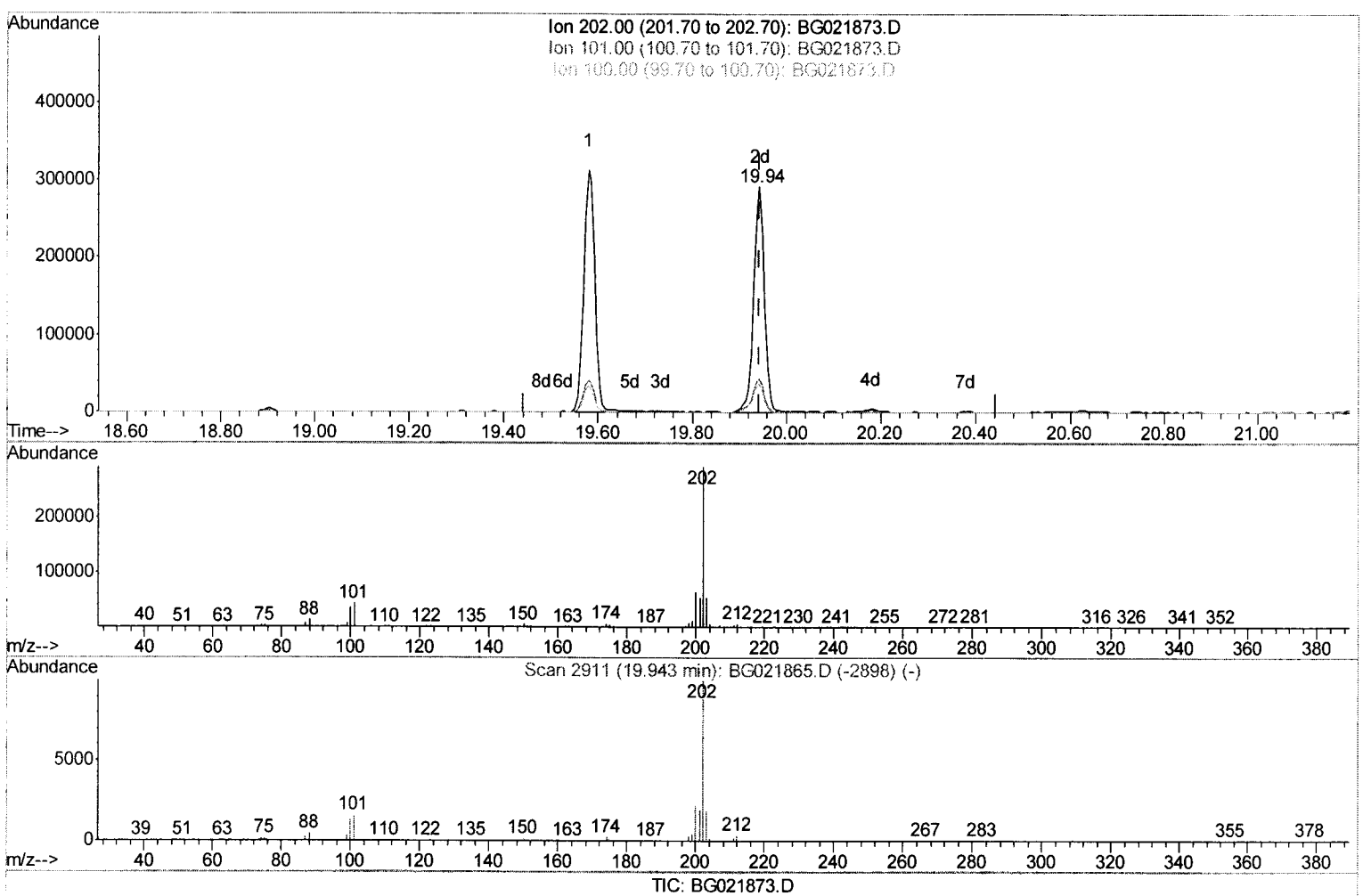
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Manual Integrations
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 Response via : Initial Calibration



(78) Pyrene

19.944min (+0.001) 17.70ng/ul m

response 463817

Ion	Exp%	Act%
202.00	100	100
101.00	12.30	15.08#
100.00	11.60	12.58
0.00	0.00	0.00

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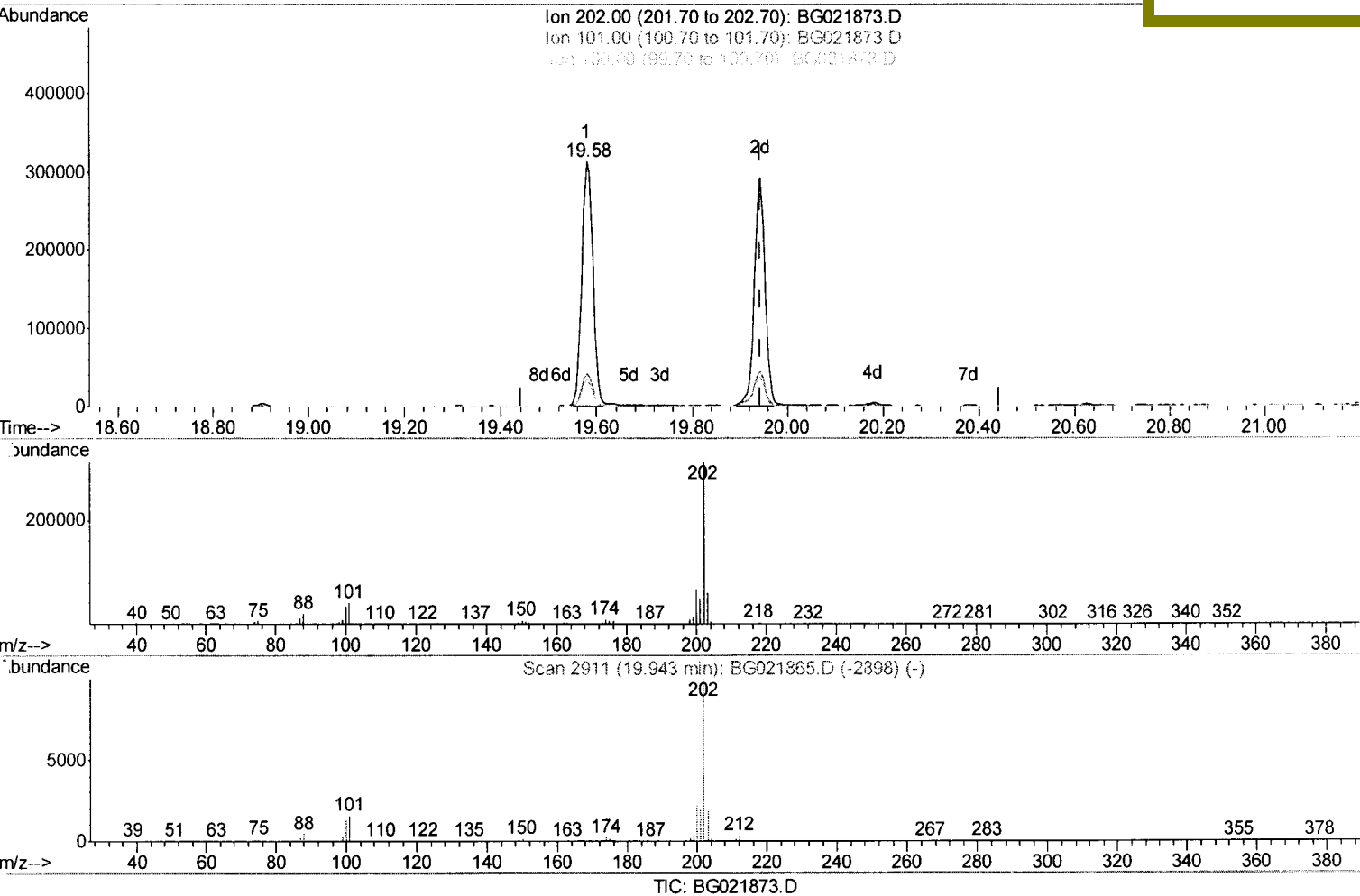
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021873.D
Acq On : 12 May 2016 17:54
Operator : UM/SJ
Sample : H2936-11
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9WK0

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Manual Integrations
APPROVED

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(78) Pyrene

19.580min (-0.363) 19.45ng/ul

response 509862

Ion	Exp%	Act%
202.00	100	100
101.00	12.30	13.13
100.00	11.60	10.90
0.00	0.00	0.00

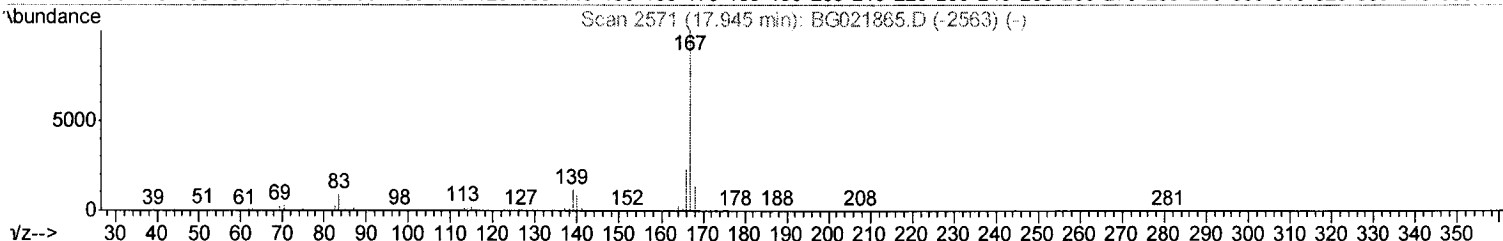
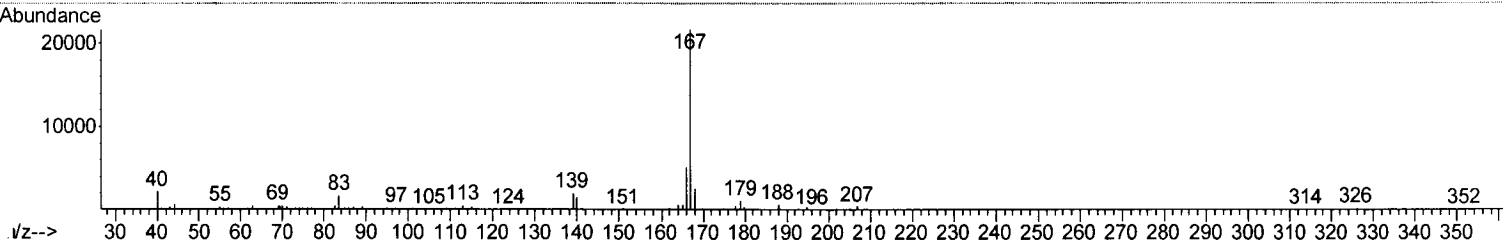
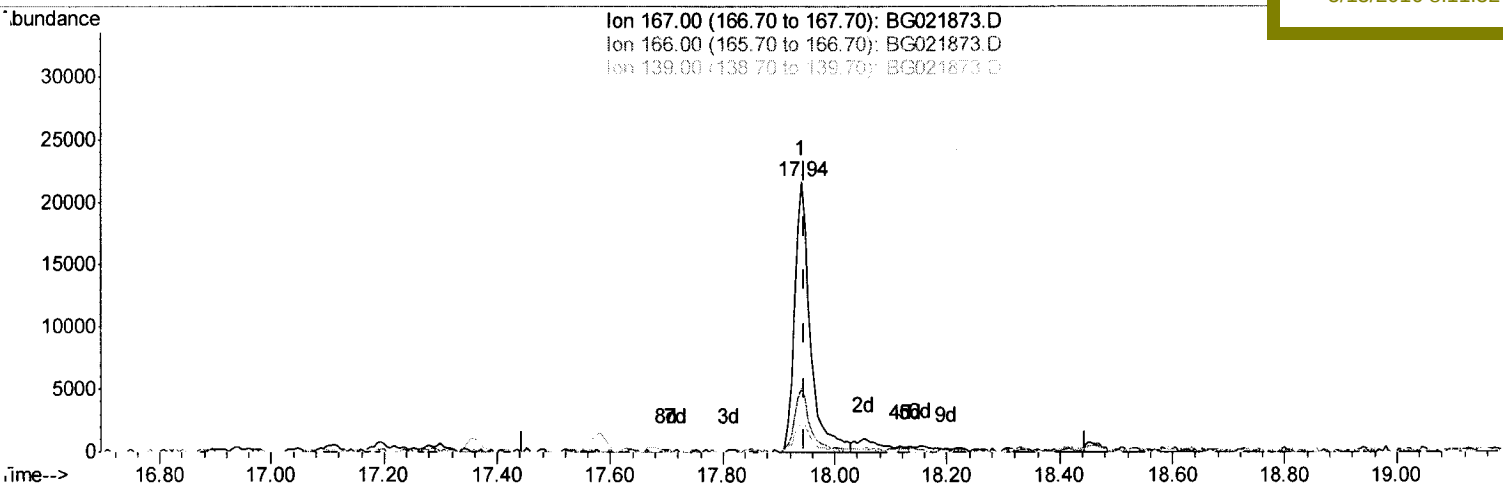
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
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TIC: BG021873.D

(73) Carbazole

17.940min (-0.005) 1.91ng/ul

response 41433

Ion	Exp%	Act%
167.00	100	100
166.00	23.70	23.86
139.00	15.30	9.54#
0.00	0.00	0.00

Quantitation Report (Qedit)

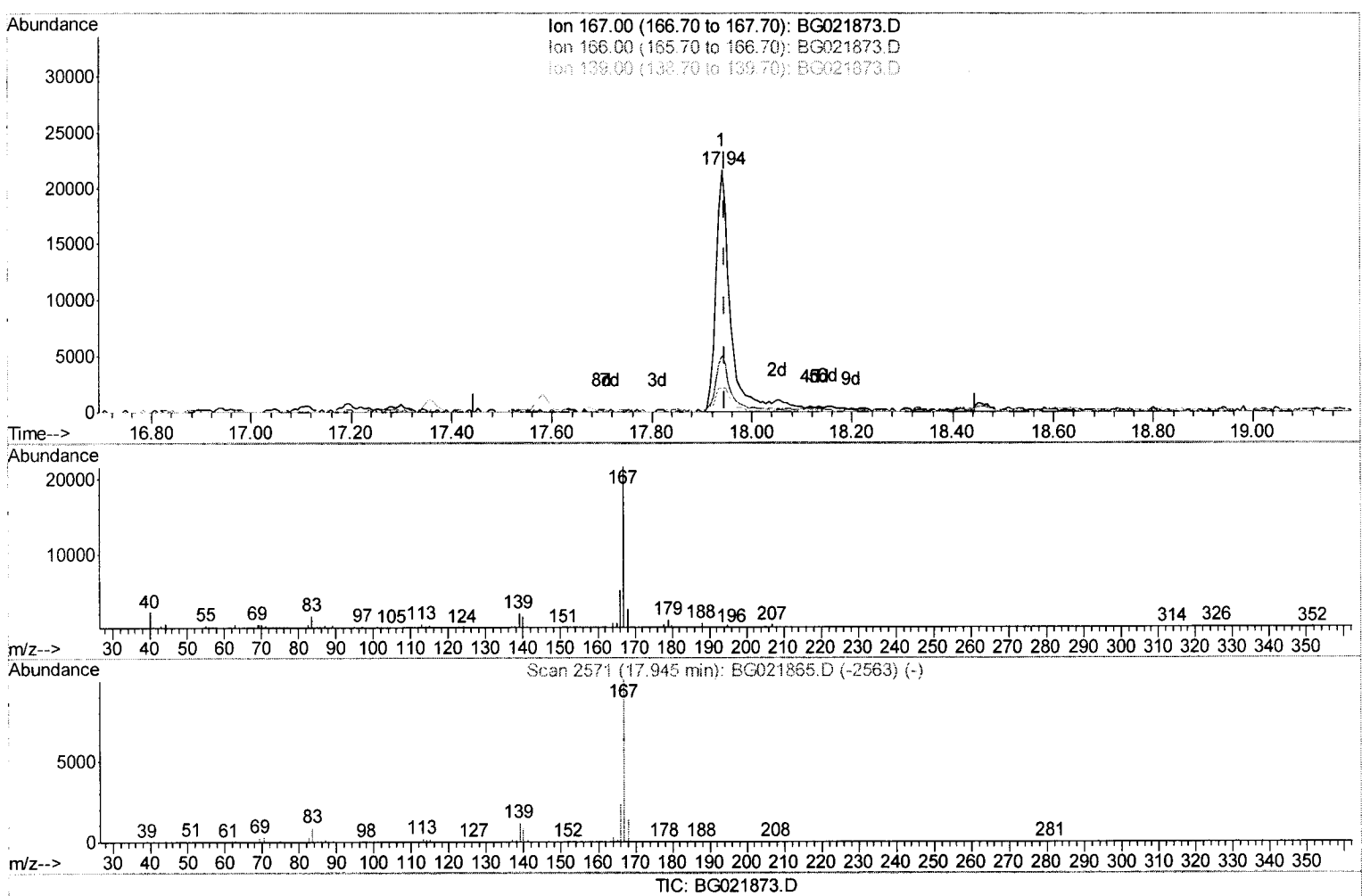
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
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(73) Carbazole

17.940min (-0.005) 2.10ng/ul m

response 45593

Ion	Exp%	Act%
167.00	100	100
166.00	23.70	23.86
139.00	15.30	9.54#
0.00	0.00	0.00

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Quantitation Report (Qedit)

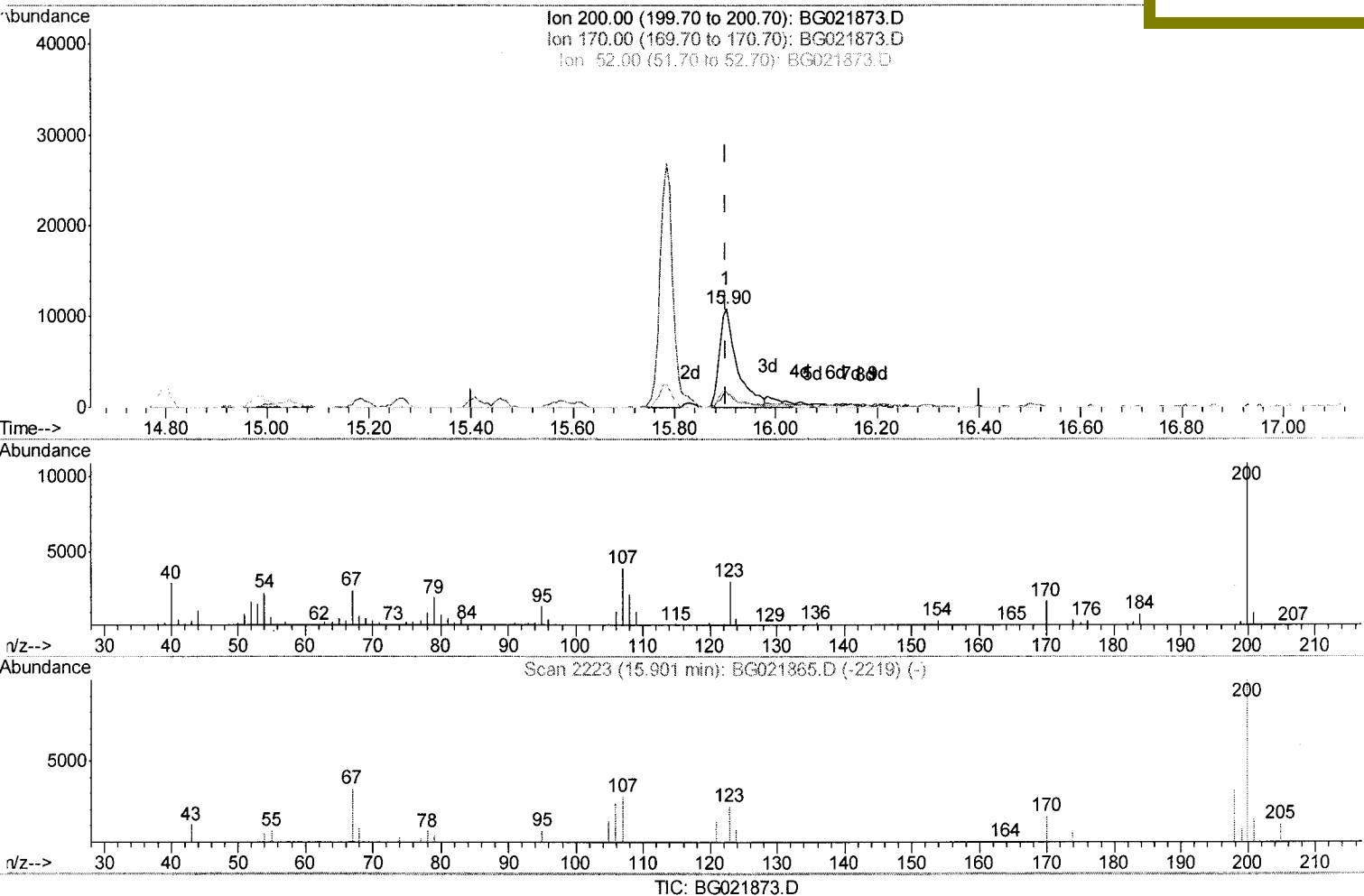
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021873.D
Acq On : 12 May 2016 17:54
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(63) 4,6-Dinitro-2-methylphenol-d2 (S)

15.901min (+0.001) 20.94ng/ul

response 26147

Ion	Exp%	Act%
200.00	100	100
170.00	22.30	15.99#
52.00	53.20	15.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

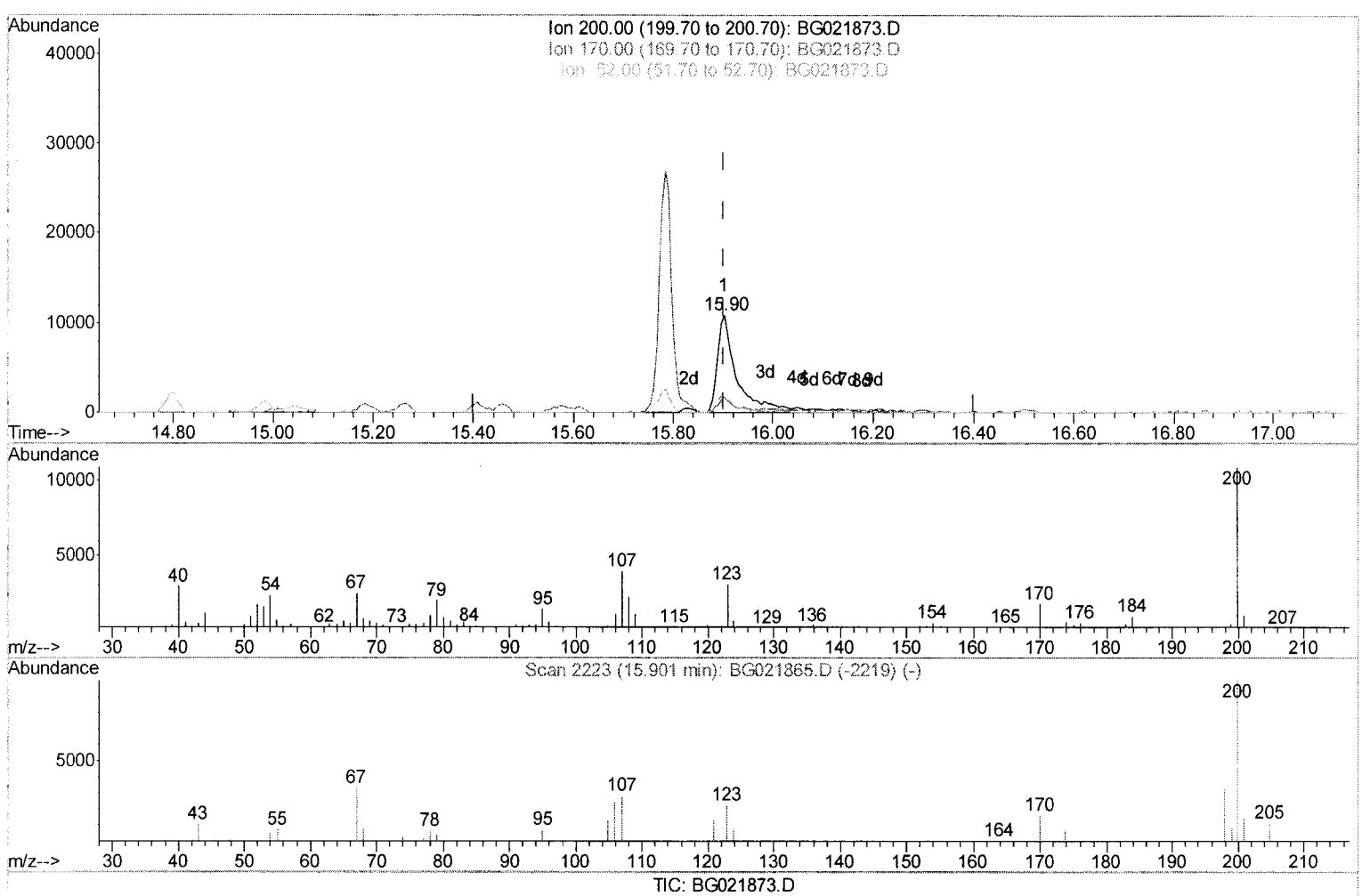
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
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 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
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 ClientSampled :
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 Response via : Initial Calibration



(63) 4,6-Dinitro-2-methylphenol-d2 (S)

15.901min (+0.001) 24.05ng/ul m

response 30031

Ion	Exp%	Act%
200.00	100	100
170.00	22.30	15.99#
52.00	53.20	15.56#
0.00	0.00	0.00

> U.M
 05/16/2016

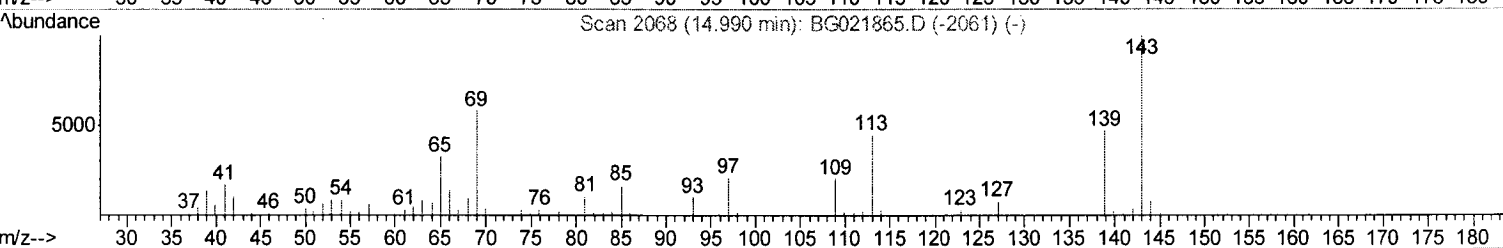
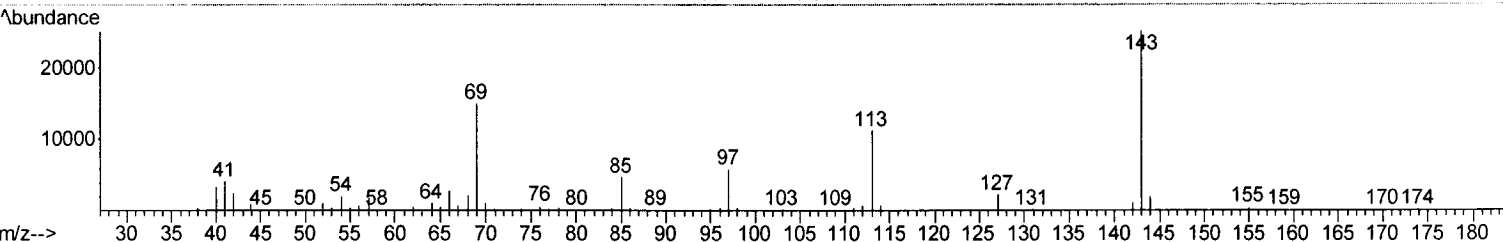
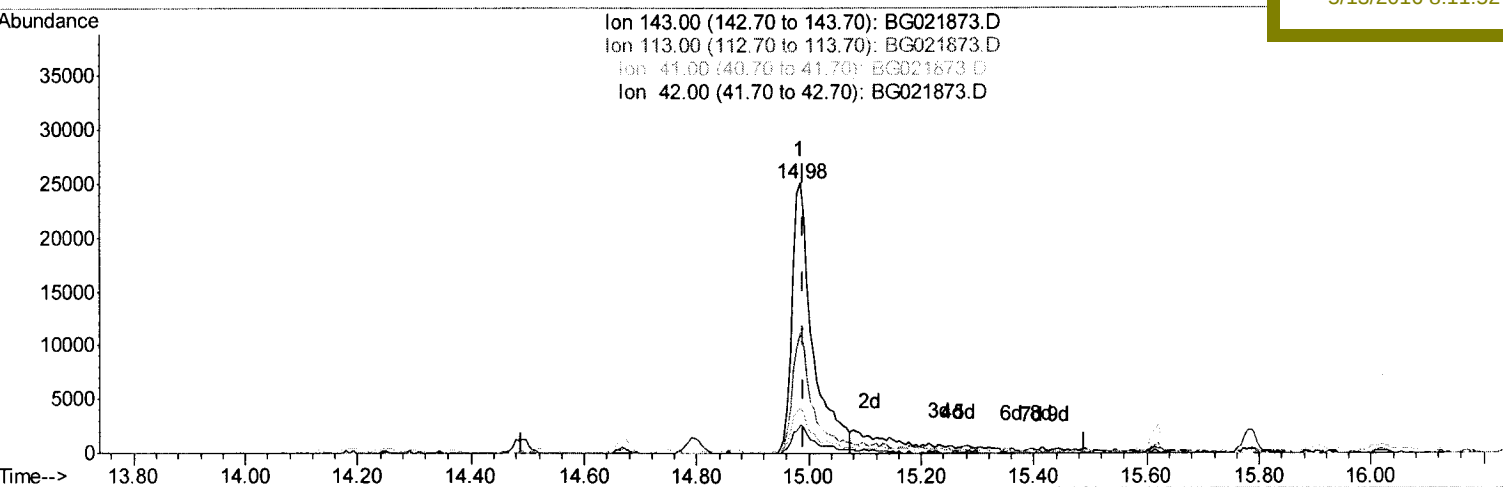
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
Data File : BG021873.D
Acq On : 12 May 2016 17:54
Operator : UM/SJ
Sample : H2936-11
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9WK0

Manual Integrations
APPROVED

sohil
5/13/2016 8:11:52 PM

Quant Time: May 13 05:01:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri May 13 04:58:59 2016
Response via : Initial Calibration



TIC: BG021873.D

(52) 4-Nitrophenol-d4 (S)

14.985min (-0.005) 25.00ng/ul

response 63847

Ion	Exp%	Act%
143.00	100	100
113.00	102.70	44.64#
41.00	49.70	16.71#
42.00	33.70	10.45#

Quantitation Report (Qedit)

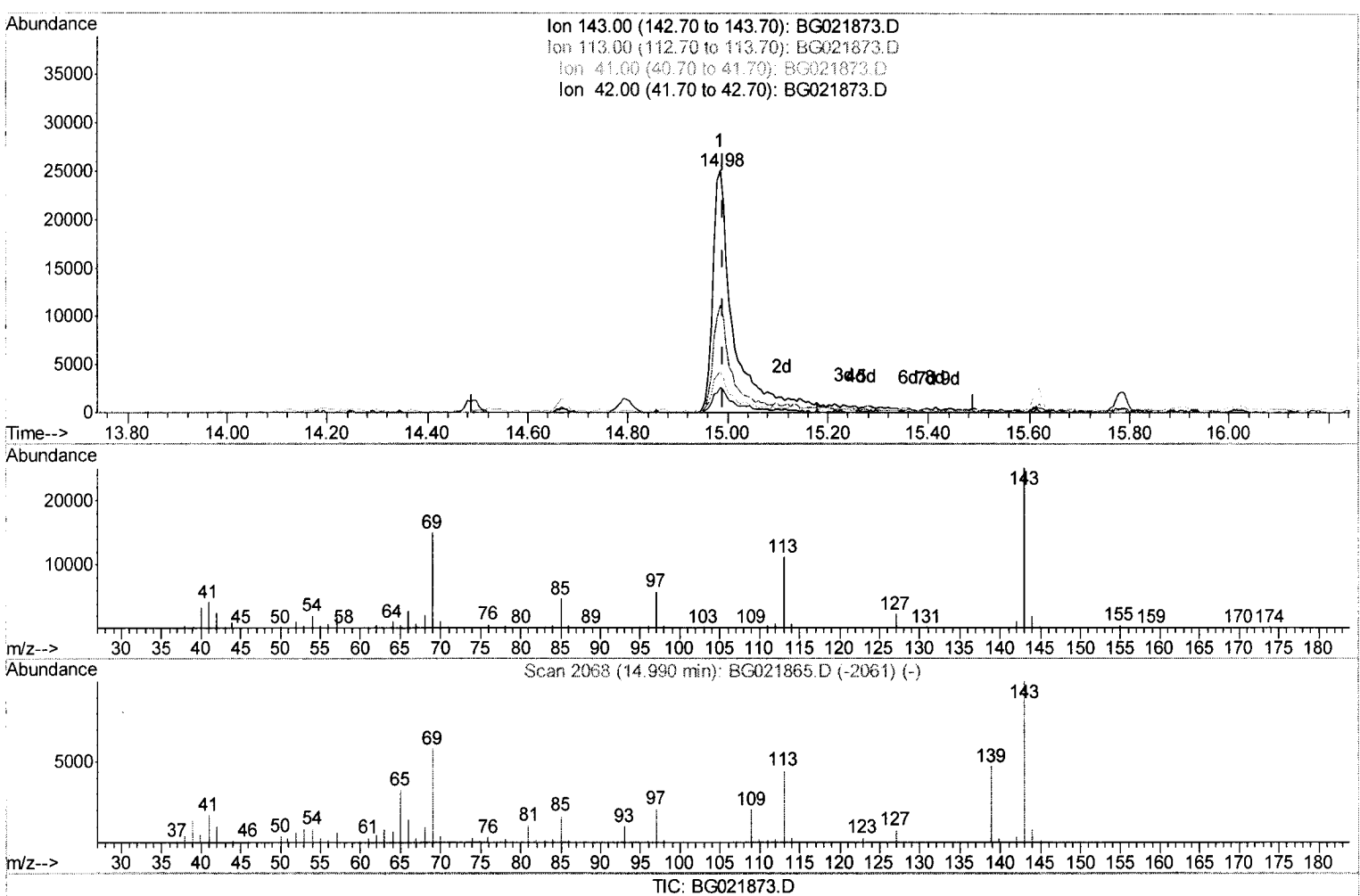
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Manual Integrations
 APPROVED

sohil
 5/13/2016 8:11:52 PM

Quant Time: May 13 05:01:10 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 13 04:58:59 2016
 Response via : Initial Calibration



(52) 4-Nitrophenol-d4 (S)

14.985min (-0.005) 28.44ng/ul m

response 72639

Ion	Exp%	Act%
143.00	100	100
113.00	102.70	44.64#
41.00	49.70	16.71#
42.00	33.70	10.45#

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Quantitation Report (Qedit)

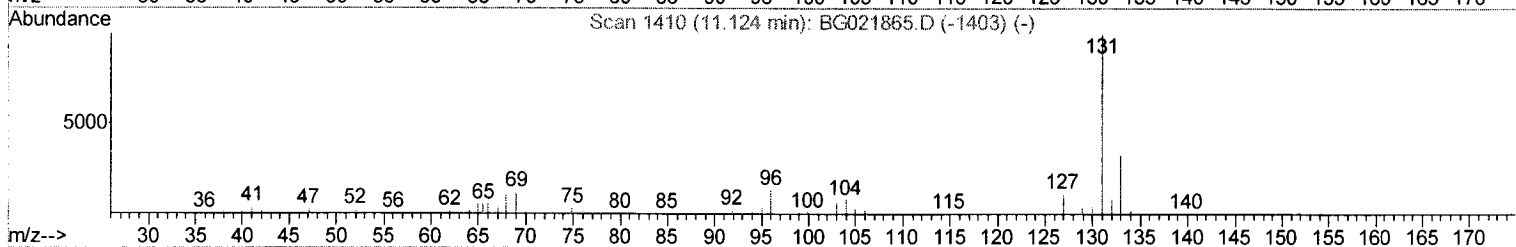
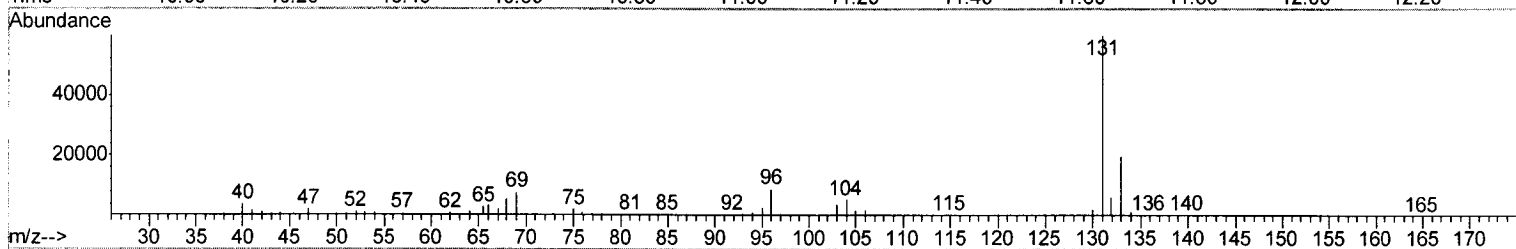
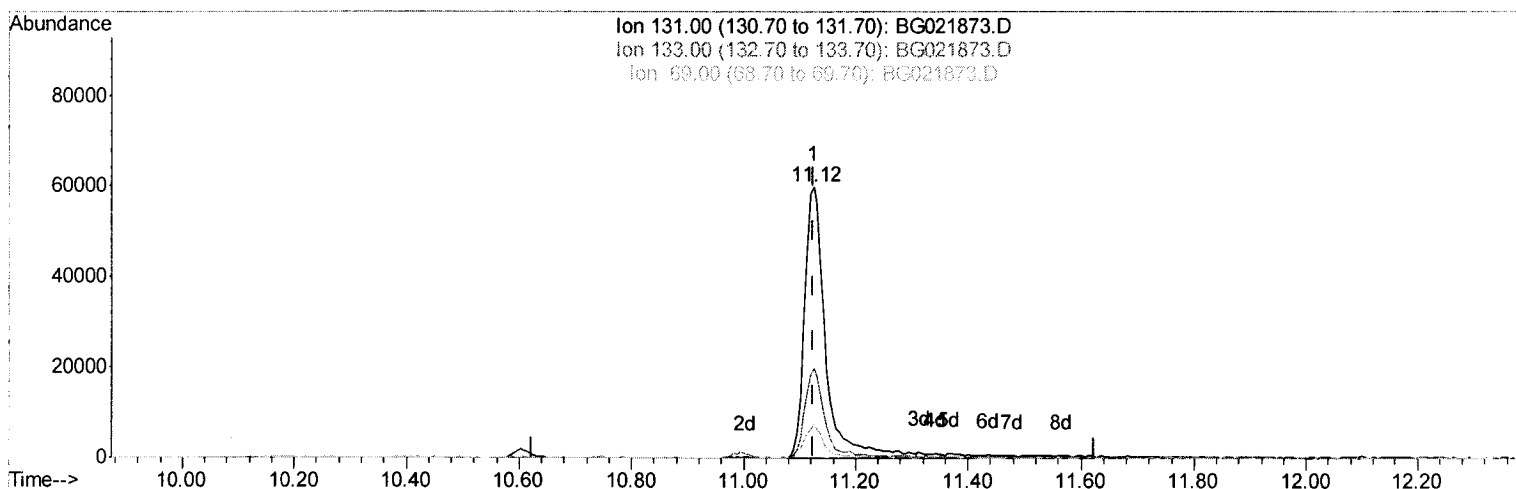
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Manual Integrations
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Quant Time: May 13 05:01:10 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 13 04:58:59 2016
 Response via : Initial Calibration



TIC: BG021873.D

(29) 4-Chloroaniline-d4 (S)

11.125min (+0.001) 37.86ng/ul m

response 156434

Ion	Exp%	Act%
131.00	100	100
133.00	34.60	33.22
69.00	23.00	12.70#
0.00	0.00	0.00

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Quantitation Report (Qedit)

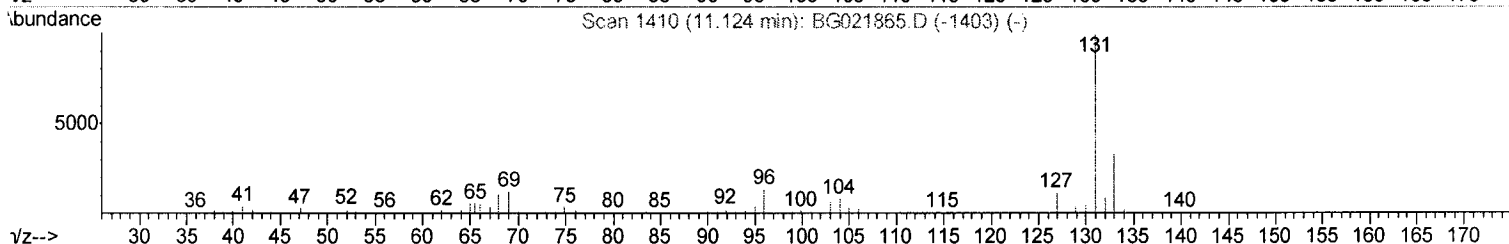
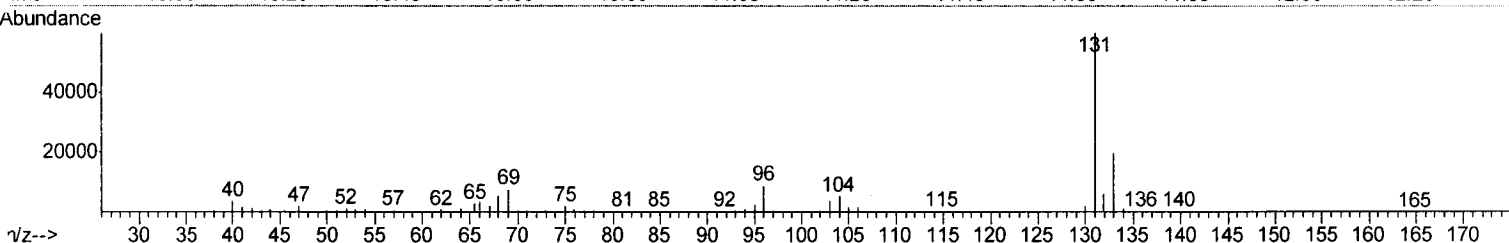
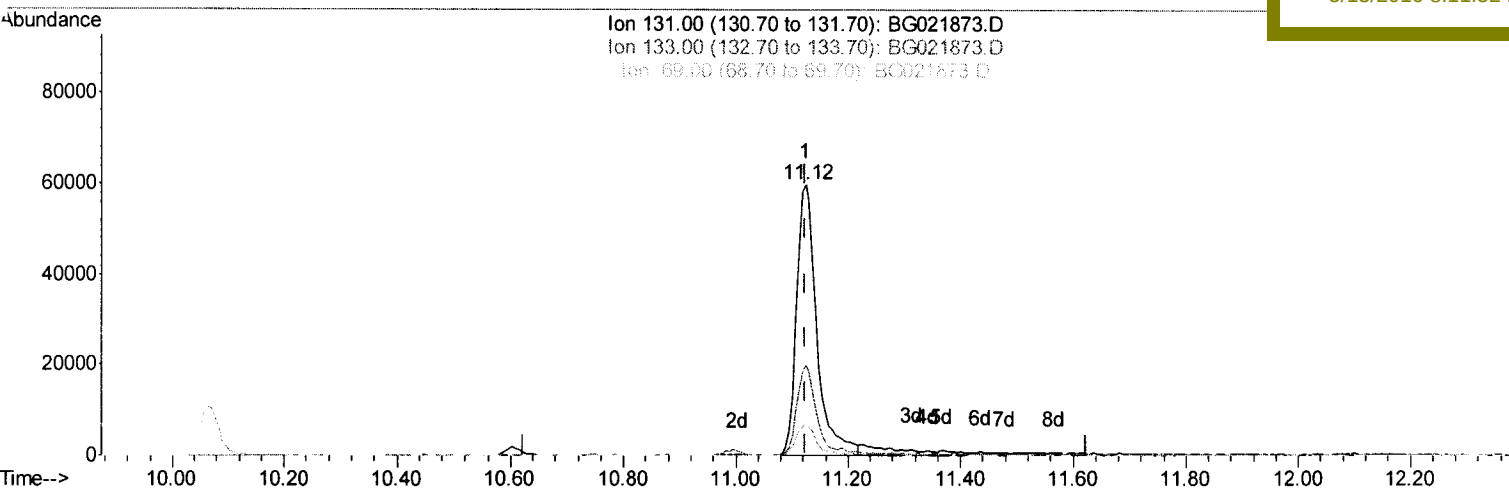
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
ClientSampled :
 D9WK0

Quant Time: May 13 05:01:10 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 13 04:58:59 2016
 Response via : Initial Calibration

Manual Integrations
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TIC: BG021873.D

(29) 4-Chloroaniline-d4 (S)

11.125min (+0.001) 35.87ng/ul

response 148208

Ion	Exp%	Act%
131.00	100	100
133.00	34.60	33.22
69.00	23.00	12.70#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG051216\
 Data File : BG021873.D
 Acq On : 12 May 2016 17:54
 Operator : UM/SJ
 Sample : H2936-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WK0

Manual Integrations
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Quant Time: May 13 12:27:17 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 13 04:58:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	57186	20.00	ng/ul	0.00
18) Naphthalene-d8	10.99	136	326664	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.80	164	212118	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.54	188	450723	20.00	ng/ul	0.00
76) Chrysene-d12	21.82	240	453047	20.00	ng/ul	0.00
84) Perylene-d12	25.16	264	464624	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.55	96	5350	4.52	ng/uL	0.00
5) Phenol-d5	7.32	99	129631	30.55	ng/ul	0.00
7) Bis-(2-Chloroethyl) ether-d	7.49	67	60842	28.92	ng/ul	0.00
9) 2-Chlorophenol-d4	7.70	132	119990	36.43	ng/ul	0.00
13) 4-Methylphenol-d8	8.87	113	125181	35.12	ng/ul	-0.01
19) Nitrobenzene-d5	9.34	128	61170	28.48	ng/ul	0.00
22) 2-Nitrophenol-d4	10.07	143	76742	56.57	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.61	165	133229	34.73	ng/ul	0.00
29) 4-Chloroaniline-d4	11.12	131	156434m	37.86	ng/ul	0.00
44) Dimethylphthalate-d6	14.19	166	426162	28.60	ng/ul	0.00
47) Acenaphthylene-d8	14.49	160	556902	26.33	ng/ul	0.00
52) 4-Nitrophenol-d4	14.98	143	72639m	28.44	ng/ul	0.00
58) Fluorene-d10	15.78	176	397298	25.33	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.90	200	30031m	24.05	ng/ul	0.00
71) Anthracene-d10	17.63	188	528990	24.11	ng/ul	0.00
77) Pyrene-d10	19.91	212	557072m	26.27	ng/ul	0.00
88) Benzo(a)pyrene-d12	24.94	264	530581	24.03	ng/ul	0.00

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Target Compounds

						Qvalue
28) Naphthalene	11.04	128	17586	1.07	ng/ul	97
45) Dimethylphthalate	14.24	163	76941	5.07	ng/ul	97
69) Pentachlorophenol	17.19	266	5223m	2.51	ng/ul	
70) Phenanthrene	17.58	178	236125	9.58	ng/ul	97
72) Anthracene	17.67	178	52222	2.09	ng/ul	96
73) Carbazole	17.94	167	45593m	2.10	ng/ul	
75) Fluoranthene	19.58	202	509107	18.18	ng/ul#	94
78) Pyrene	19.94	202	463817m	17.70	ng/ul	
81) Benzo(a)anthracene	21.80	228	330458	13.11	ng/ul	97
82) Bis(2-ethylhexyl)phthalate	21.69	149	50213	5.31	ng/ul	99
83) Chrysene	21.87	228	383808	15.39	ng/ul	97
86) Benzo(b)fluoranthene	24.10	252	659331	24.79	ng/ul#	95
87) Benzo(k)fluoranthene	24.16	252	183883m	6.46	ng/ul	
89) Benzo(a)pyrene	25.01	252	433144	16.36	ng/ul#	94
90) Indeno(1,2,3-cd)pyrene	28.99	276	338363	10.78	ng/ul#	96
91) Dibenzo(a,h)anthracene	29.04	278	87446m	3.35	ng/ul	
92) Benzo(g,h,i)perylene	30.20	276	306094m	11.82	ng/ul	

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