

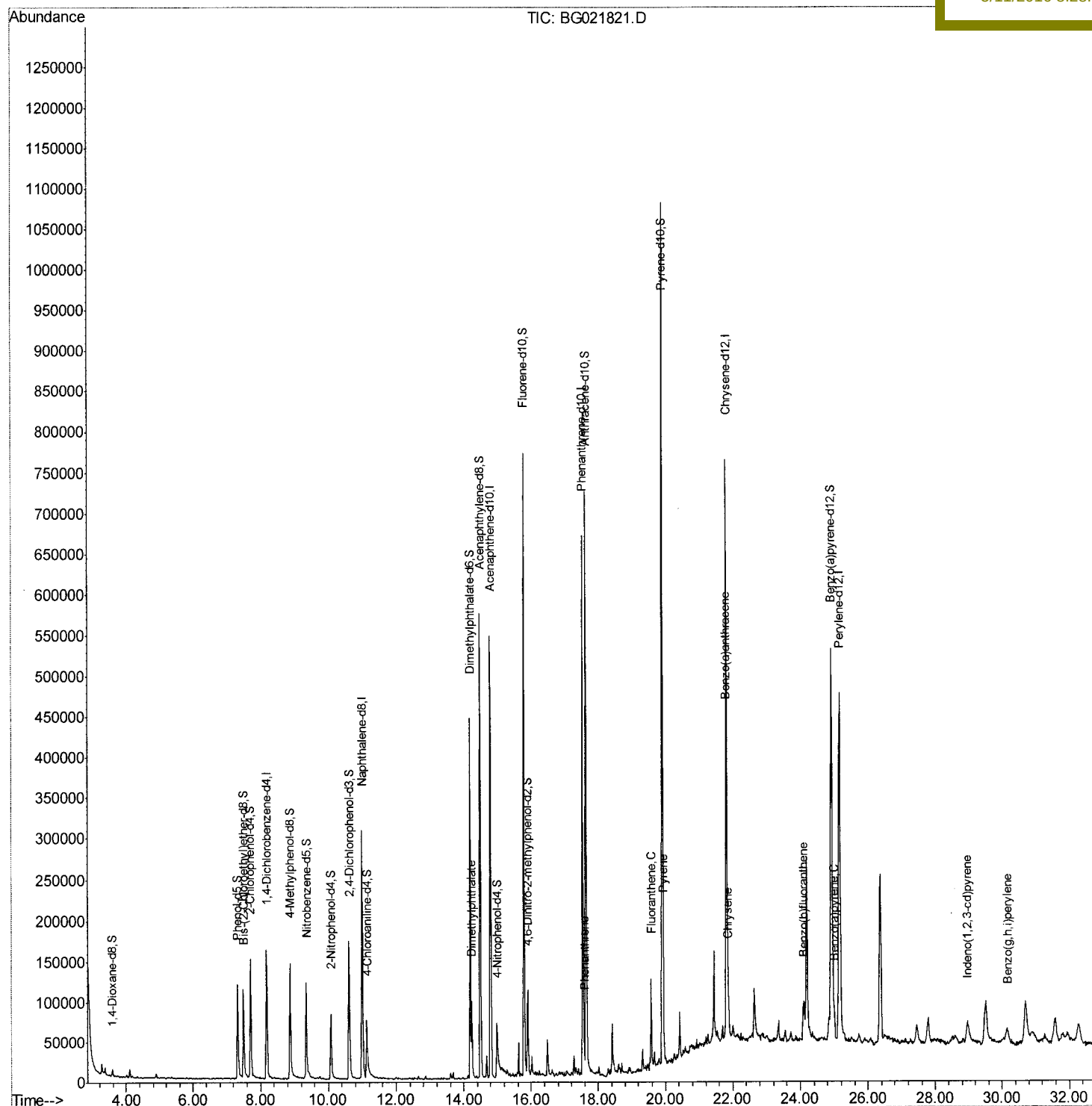
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
Data File : BG021821.D
Acq On : 10 May 2016 18:02
Operator : UM/SJ
Sample : H2938-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_G
Client Sampled :
D9XA9

Quant Time: May 11 11:50:16 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed May 11 02:37:33 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
5/11/2016 8:28:05 PM



Quantitation Report (Qedit)

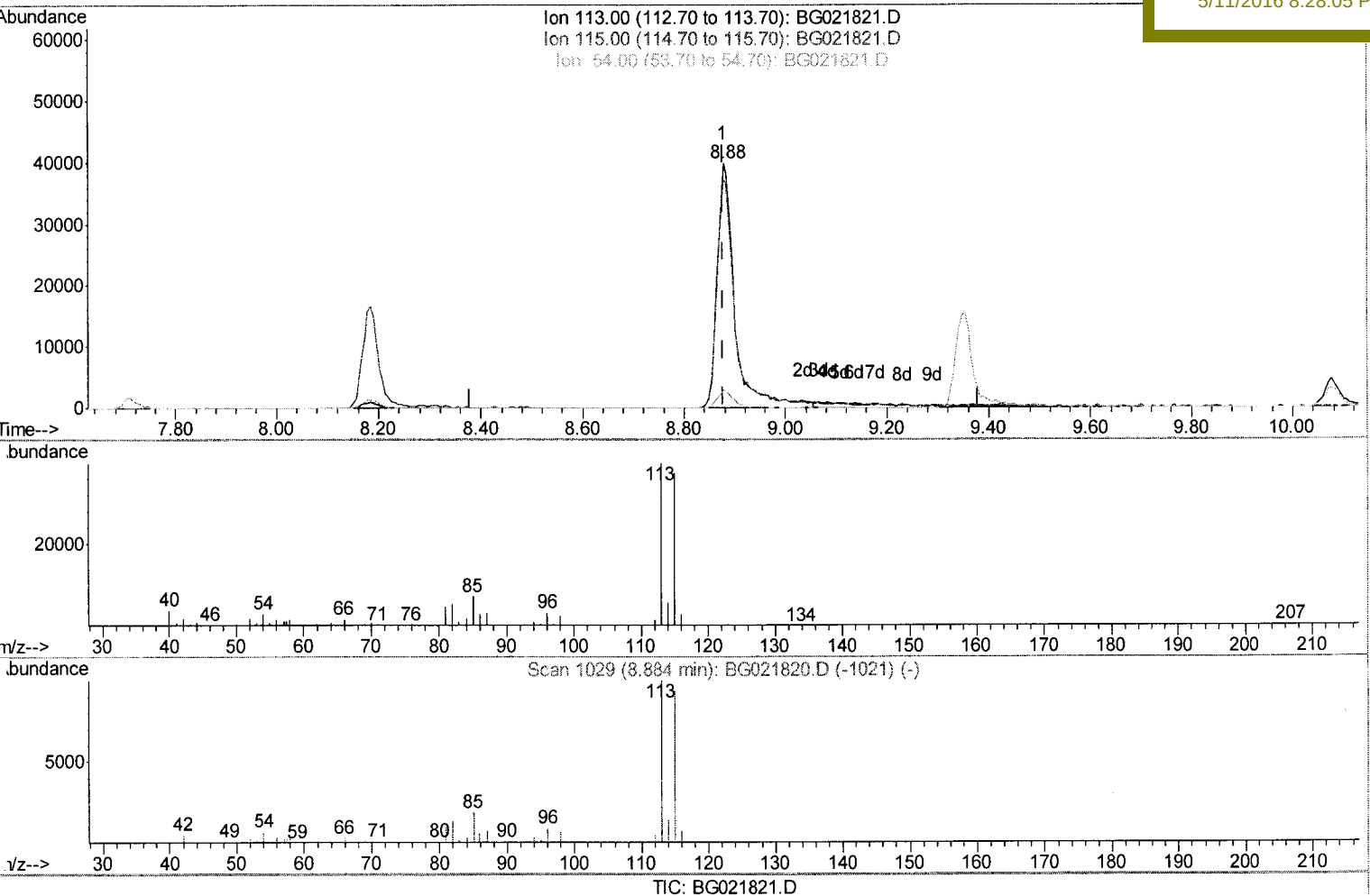
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
Data File : BG021821.D
Acq On : 10 May 2016 18:02
Operator : UM/SJ
Sample : H2938-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9XA9

Manual Integrations
APPROVED

sohil
5/11/2016 8:28:05 PM

Quant Time: May 11 11:50:16 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed May 11 02:37:33 2016
Response via : Initial Calibration



(13) 4-Methylphenol-d8 (S)

8.878min (-0.000) 22.60ng/ul m

response 94977

Ion Exp% Act%

113.00 100 100

115.00 93.40 93.77

54.00 18.70 7.26#

0.00 0.00 0.00

U.M
05/13/16

Quantitation Report (Qedit)

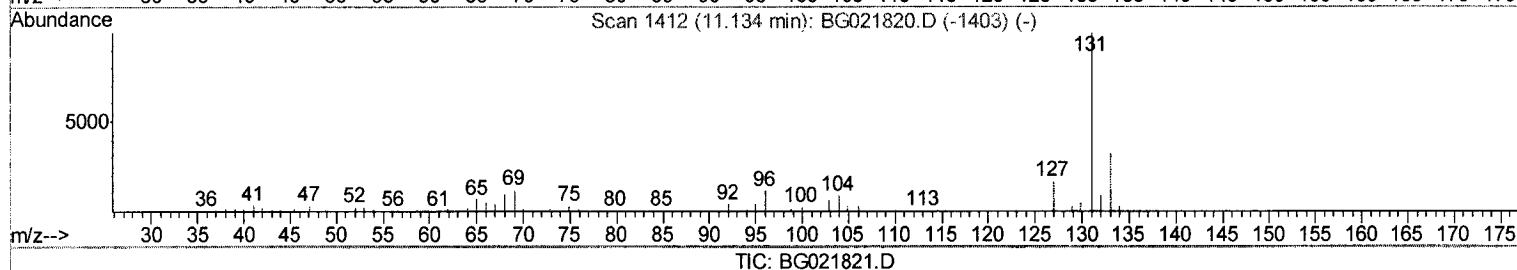
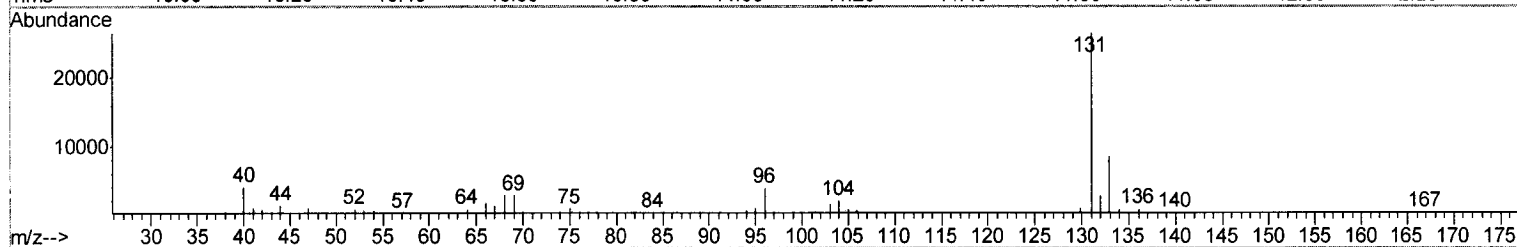
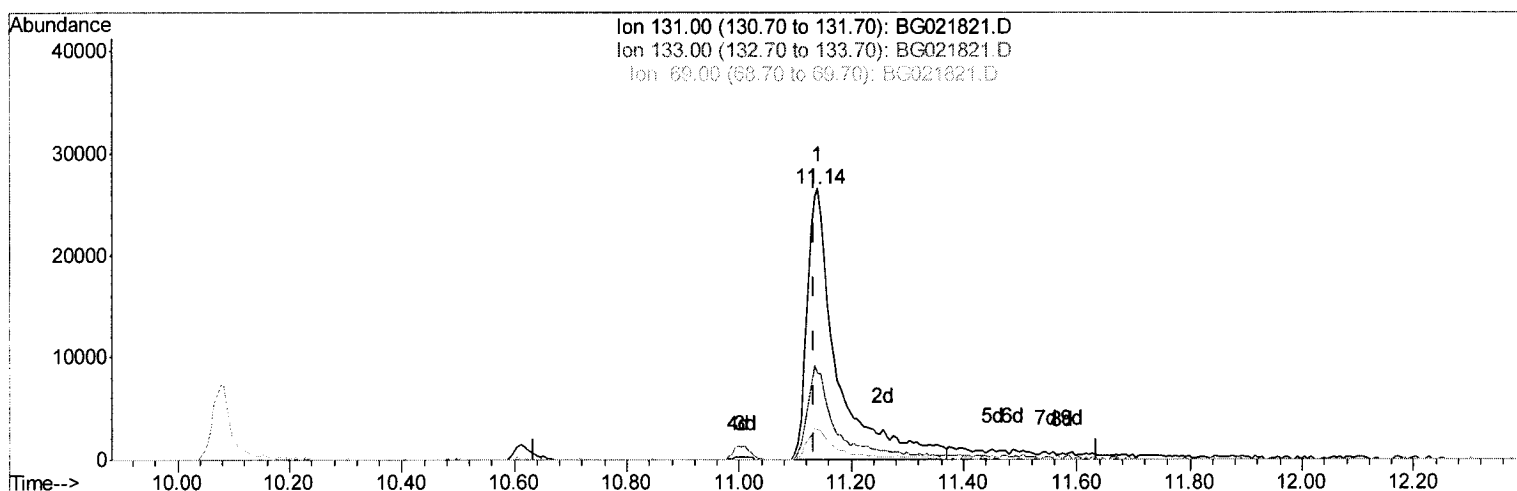
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM

Quant Time: May 11 11:50:16 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



TIC: BG021821.D

(29) 4-Chloroaniline-d4 (S)

11.140min (+0.005) 20.87ng/ul m

response 97496

Ion	Exp%	Act%
131.00	100	100
133.00	34.60	32.02
69.00	23.00	10.76#
0.00	0.00	0.00

U.M
 05/13/16

Quantitation Report (Qedit)

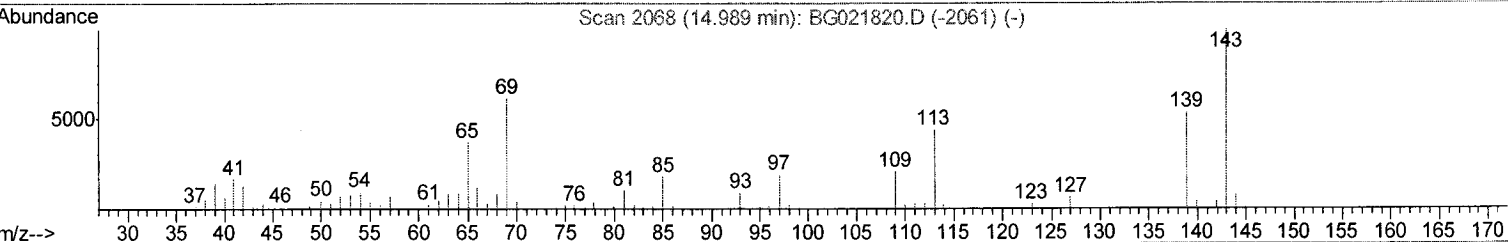
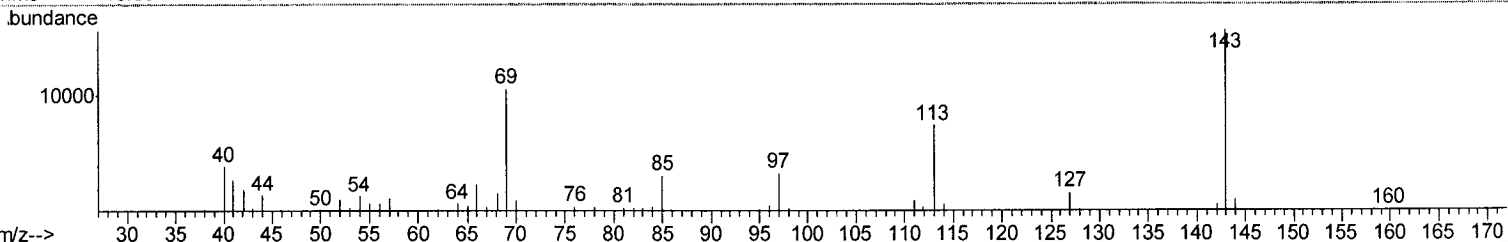
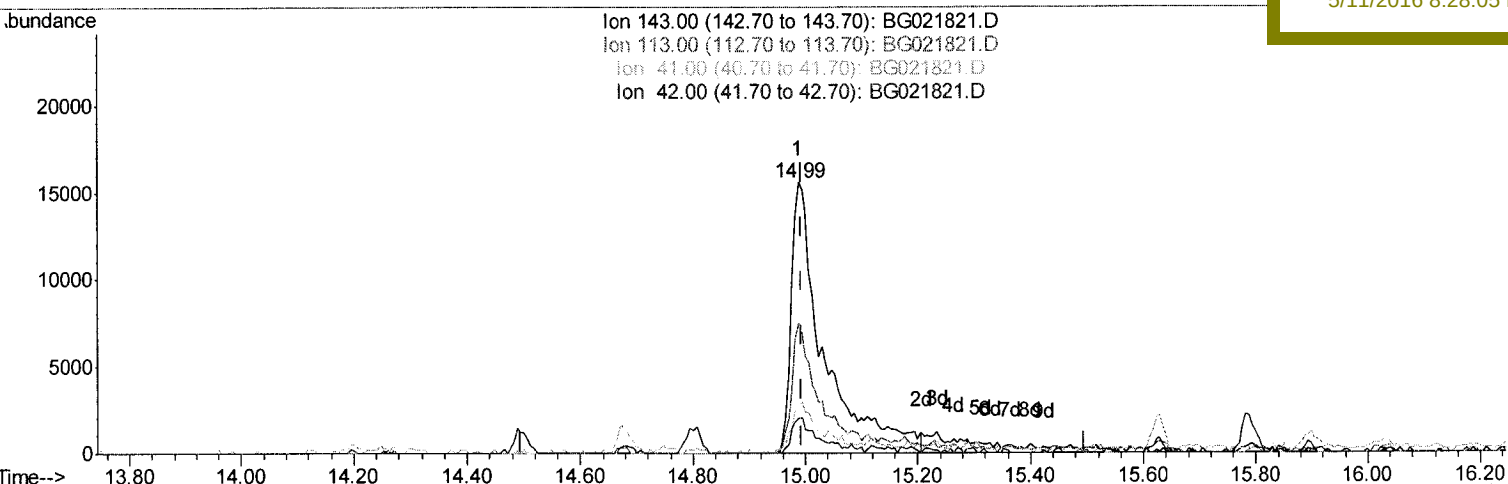
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM

Quant Time: May 11 11:50:16 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



TIC: BG021821.D

(52) 4-Nitrophenol-d4 (S)

14.988min (-0.006) 23.75ng/ul m

response 62649

Ion Exp% Act%

143.00 100 100

113.00 102.70 47.53#

41.00 49.70 17.92#

42.00 33.70 12.60#

U.M
 05/13/16

Quantitation Report (Qedit)

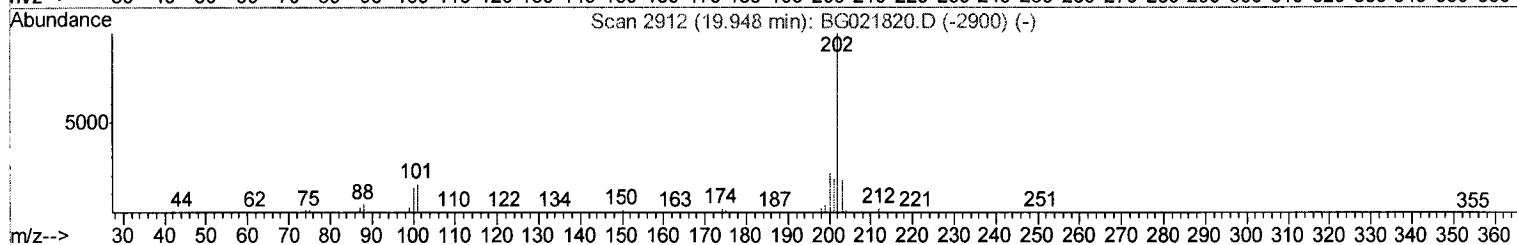
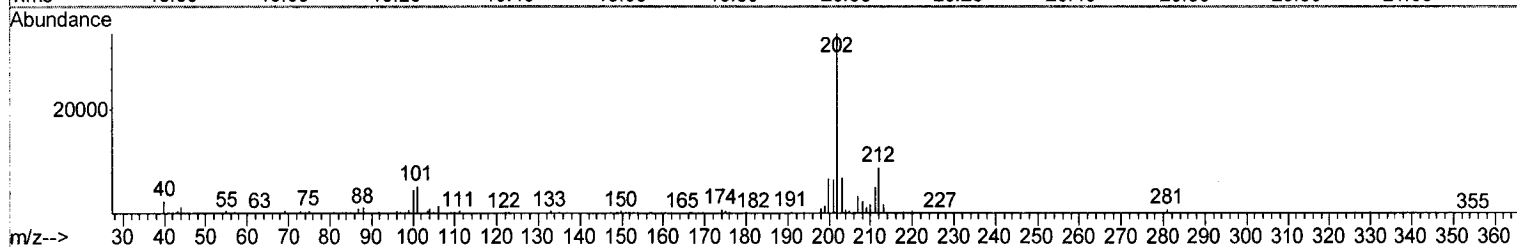
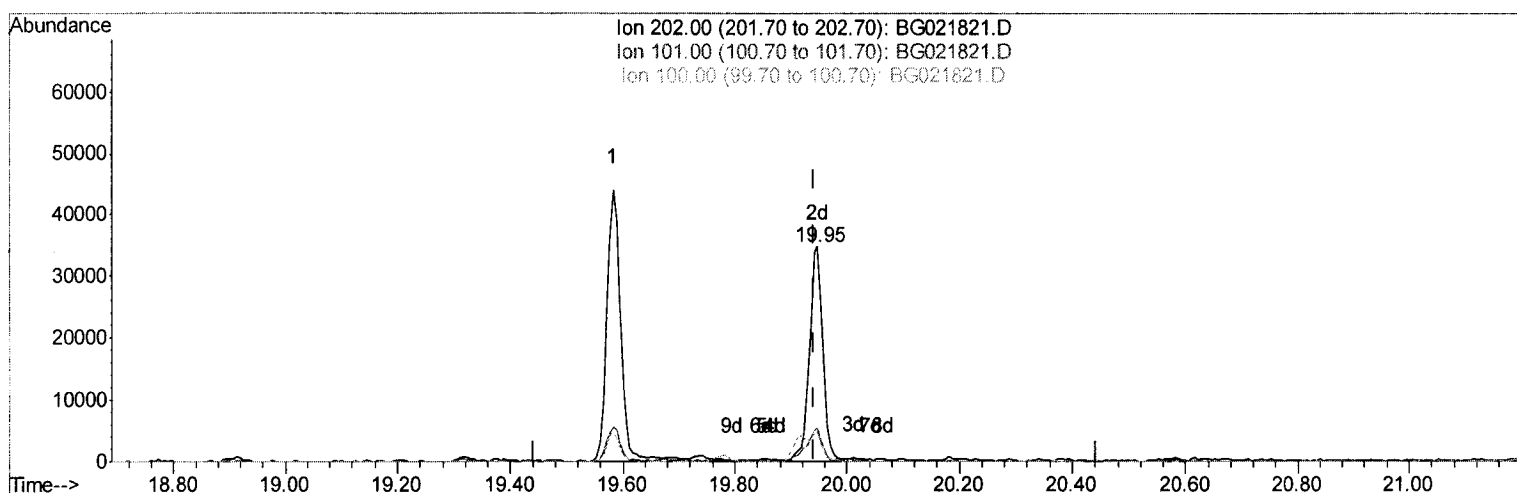
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM

Quant Time: May 11 11:50:16 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



TIC: BG021821.D

(78) Pyrene

19.947min (+0.005) 1.99ng/ul m

response 57302

Ion	Exp%	Act%
202.00	100	100
101.00	12.30	15.55#
100.00	11.60	13.62
0.00	0.00	0.00

U.M
 05/13/16

Quantitation Report (Qedit)

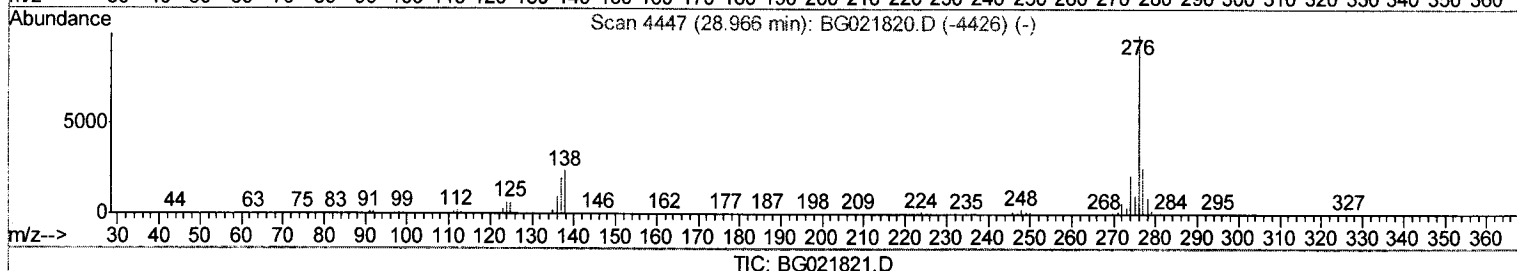
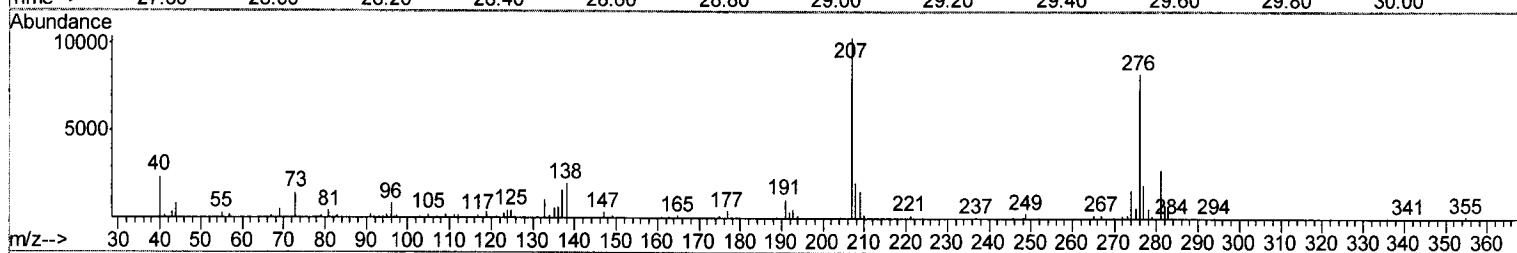
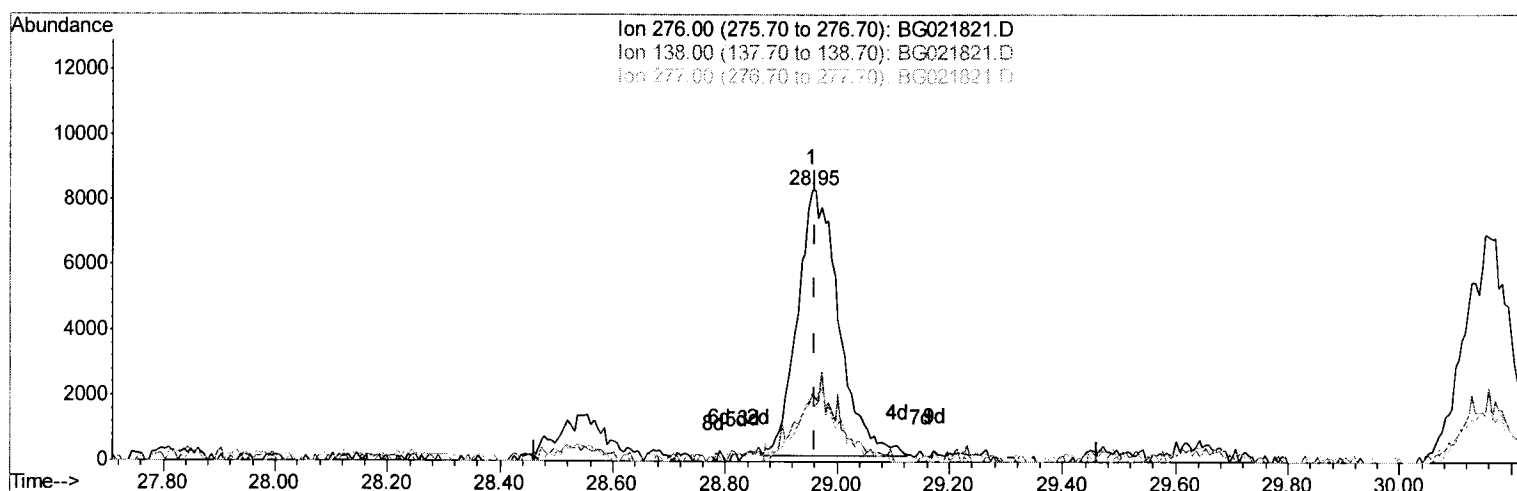
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM

Quant Time: May 11 11:50:16 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



TIC: BG021821.D

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

28.954min (-0.006) 1.29ng/ul m *U.M*
05/13/16
 response 42168

Ion	Exp%	Act%
276.00	100	100
138.00	19.70	25.16#
277.00	23.80	24.25
0.00	0.00	0.00

Quantitation Report (Qedit)

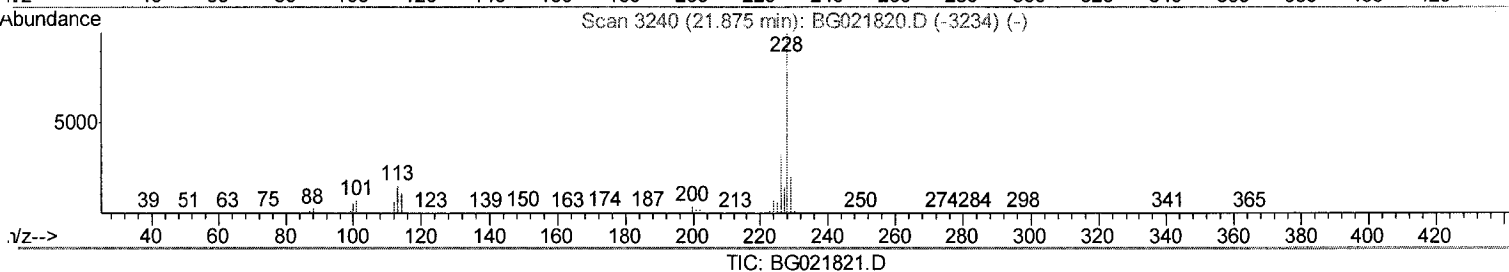
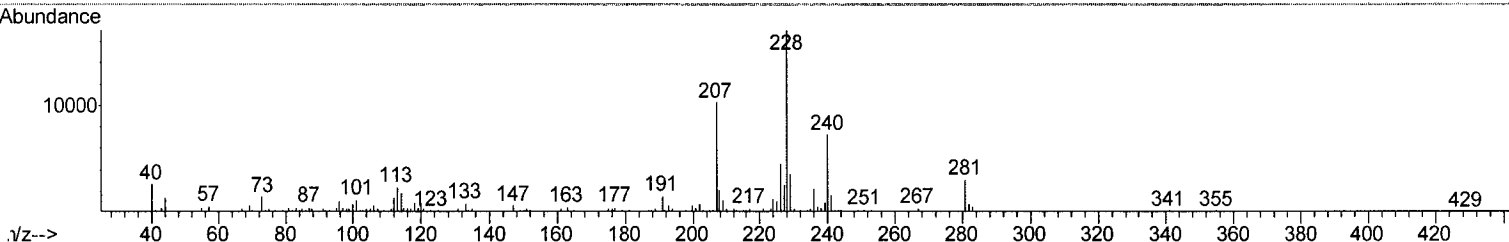
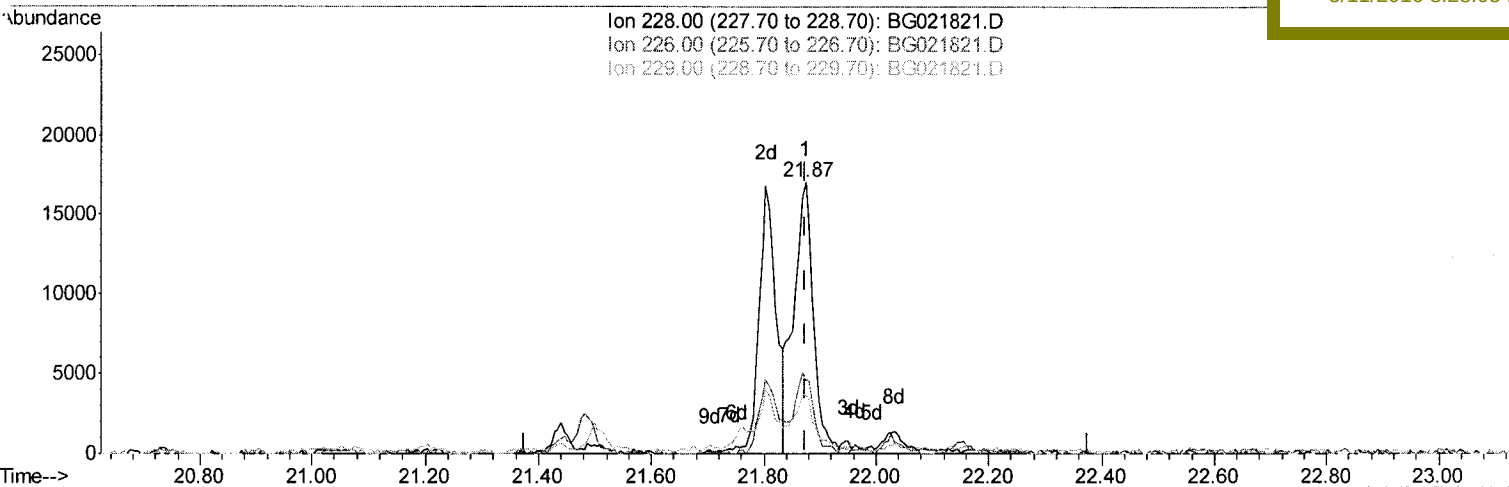
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Quant Time: May 11 11:50:16 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM



(83) Chrysene

21.874min (-0.000) 1.51ng/ul m U. M
 response 41416
 05/13/16

Ion	Exp%	Act%
228.00	100	100
226.00	29.30	26.64
229.00	20.20	21.31
0.00	0.00	0.00

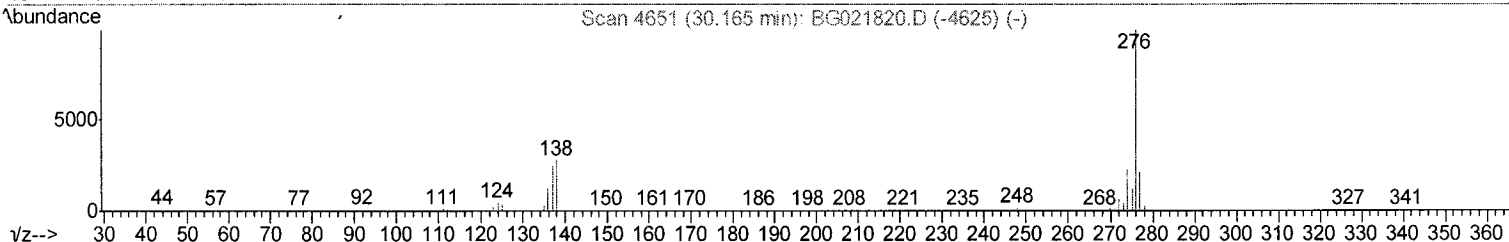
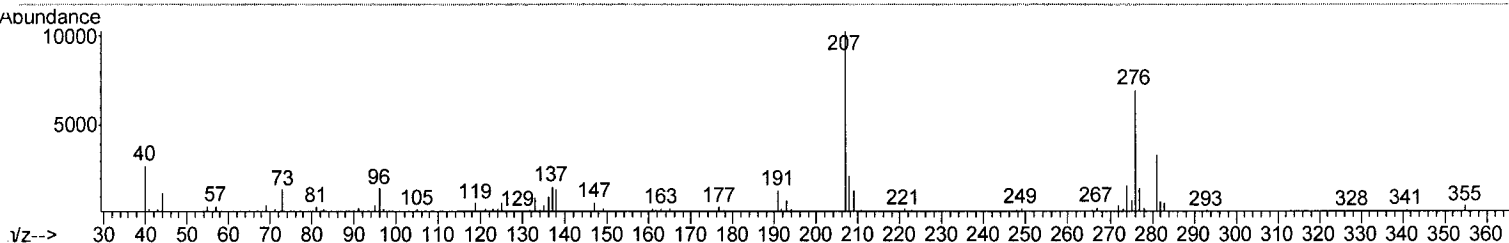
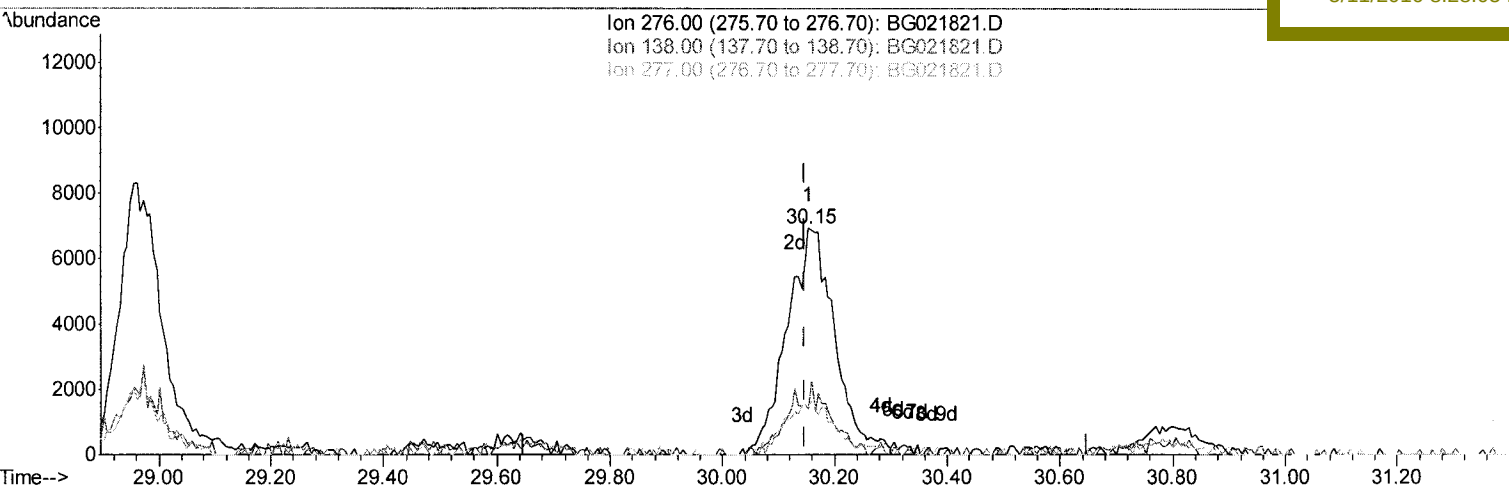
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampled :
 D9XA9

Quant Time: May 11 11:50:16 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM



TIC: BG021821.D

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

30.153min (+0.005) 1.53ng/ul m

response 41158

U.M
 05/13/16

Ion	Exp%	Act%
276.00	100	100
138.00	17.40	20.07
277.00	24.70	20.96
0.00	0.00	0.00

Quantitation Report (Qedit)

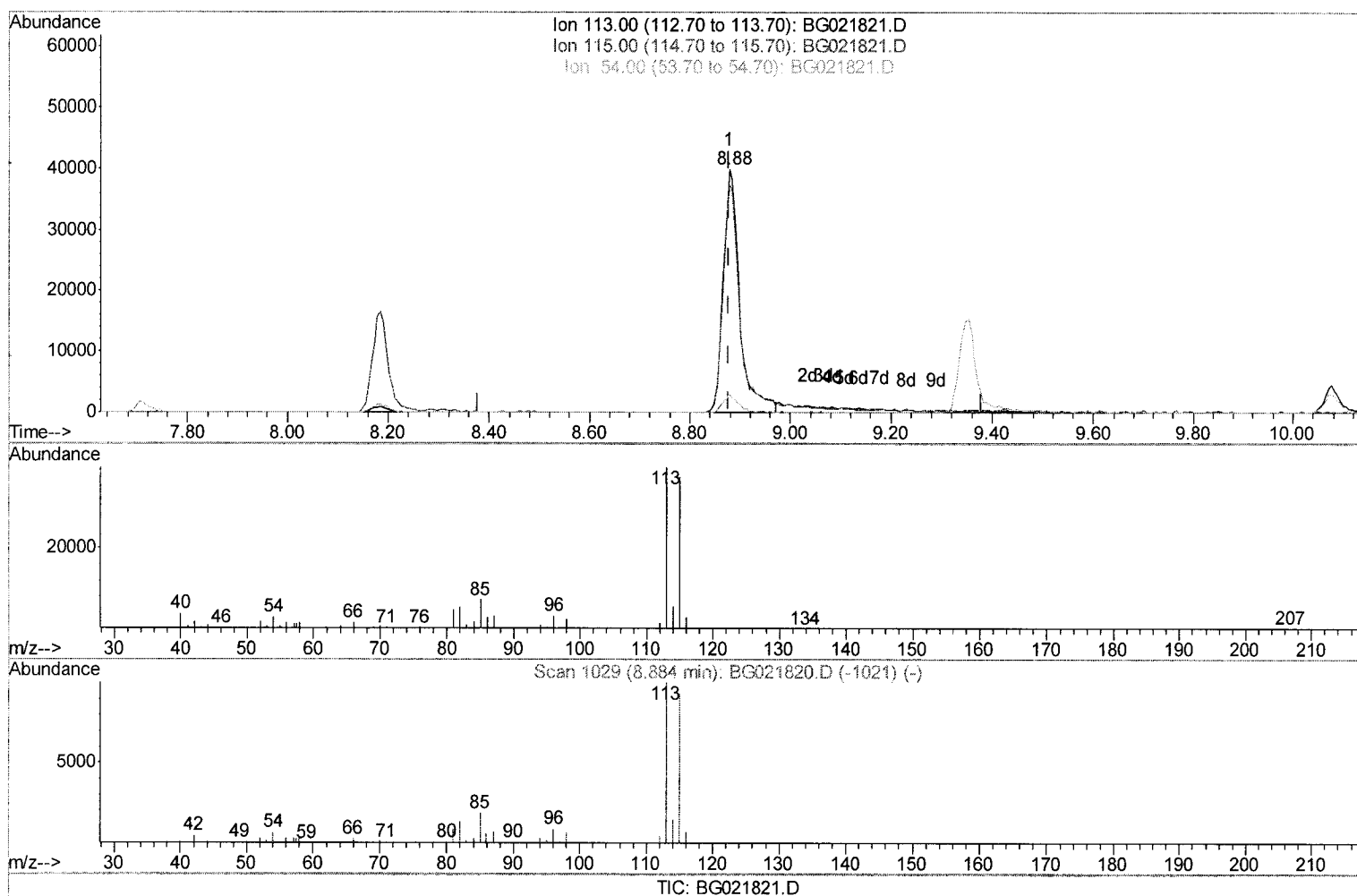
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
Data File : BG021821.D
Acq On : 10 May 2016 18:02
Operator : UM/SJ
Sample : H2938-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9XA9

Manual Integrations
APPROVED

sohil
5/11/2016 8:28:05 PM

Quant Time: May 11 19:52:15 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed May 11 02:37:33 2016
Response via : Initial Calibration



(13) 4-Methylphenol-d8 (S)

8.878min (-0.000) 21.36ng/ul

response 89754

Ion	Exp%	Act%
113.00	100	100
115.00	93.40	93.77
54.00	18.70	7.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

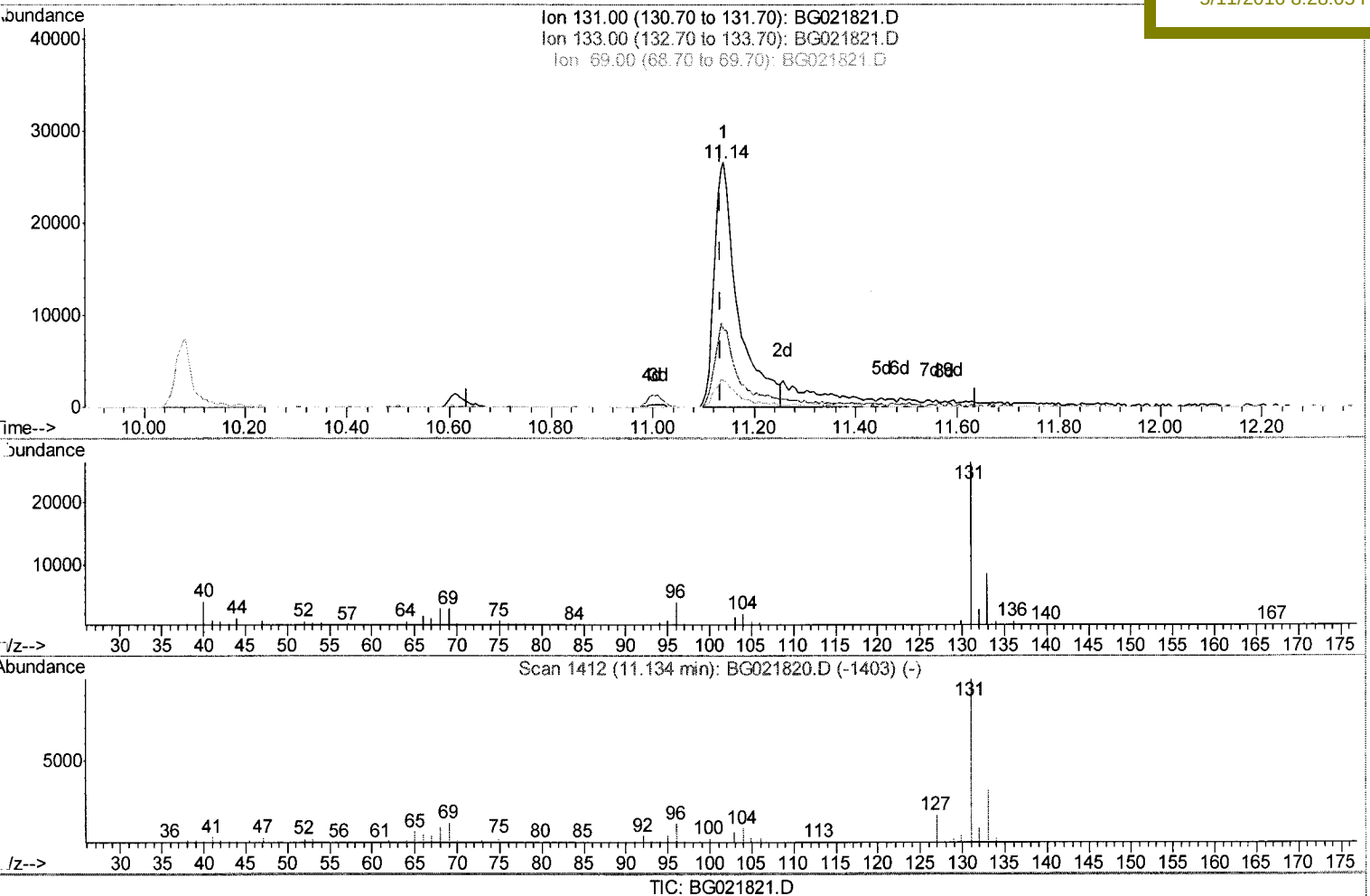
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM

Quant Time: May 11 19:52:15 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



(29) 4-Chloroaniline-d4 (S)

11.140min (+0.005) 18.38ng/ul

response 85889

Ion	Exp%	Act%
131.00	100	100
133.00	34.60	32.02
69.00	23.00	10.76#
0.00	0.00	0.00

Quantitation Report (Qedit)

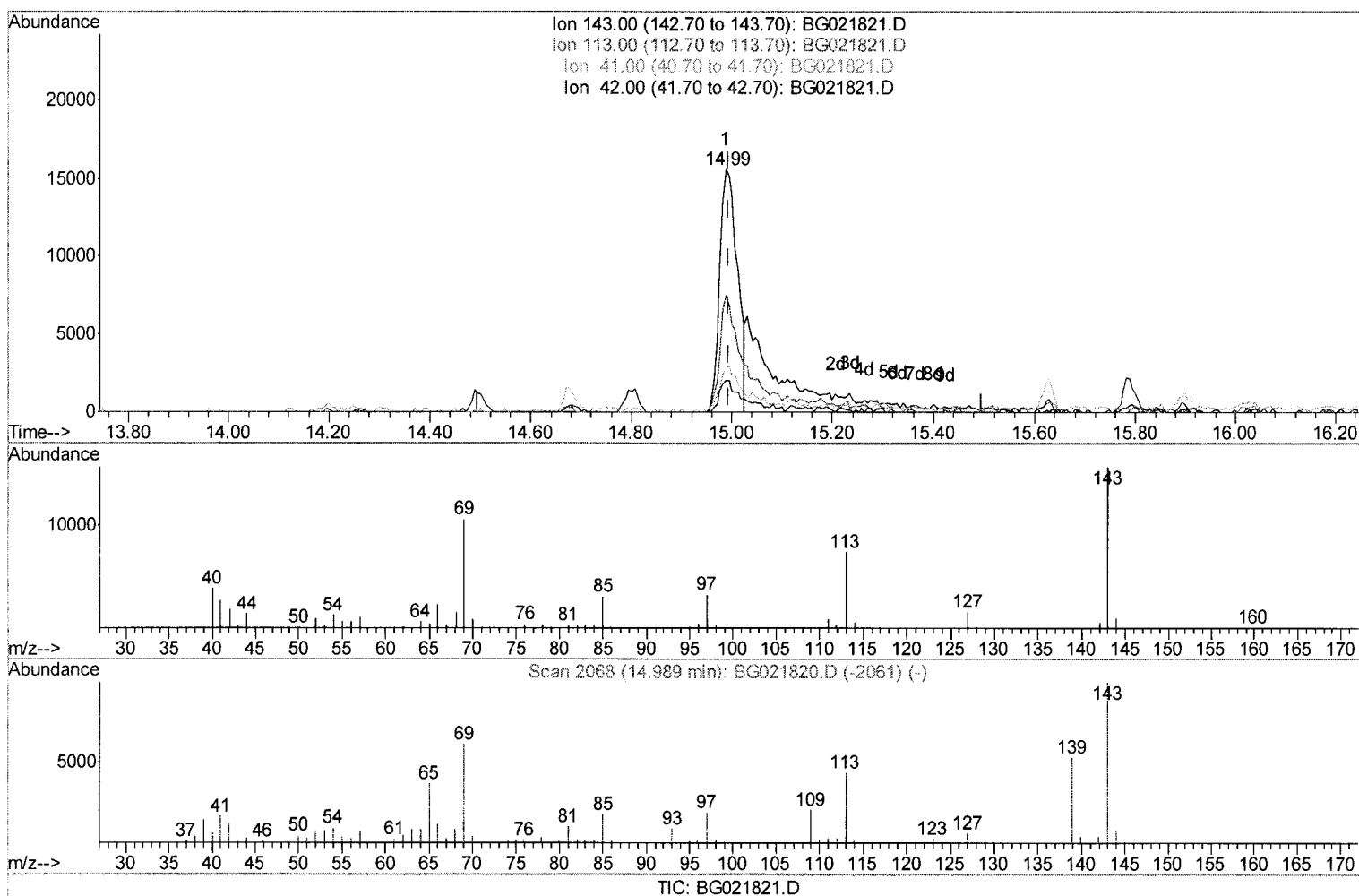
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM

Quant Time: May 11 19:52:15 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



(52) 4-Nitrophenol-d4 (S)

14.988min (-0.006) 14.28ng/ul

response 37680

Ion	Exp%	Act%
143.00	100	100
113.00	102.70	47.53#
41.00	49.70	17.92#
42.00	33.70	12.60#

Quantitation Report (Qedit)

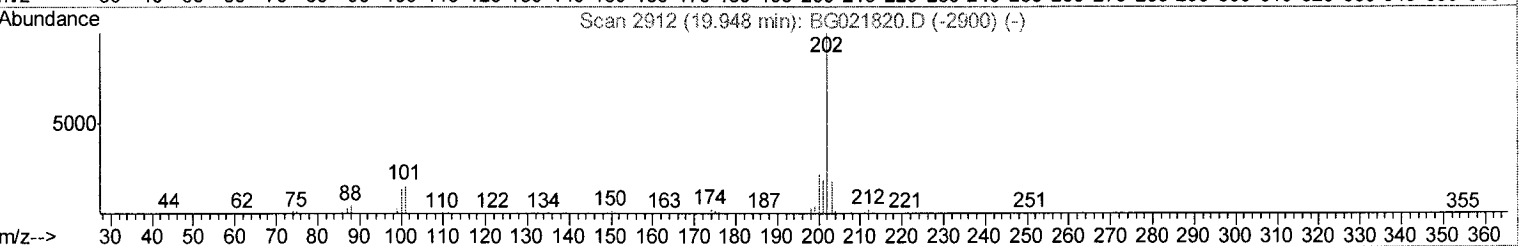
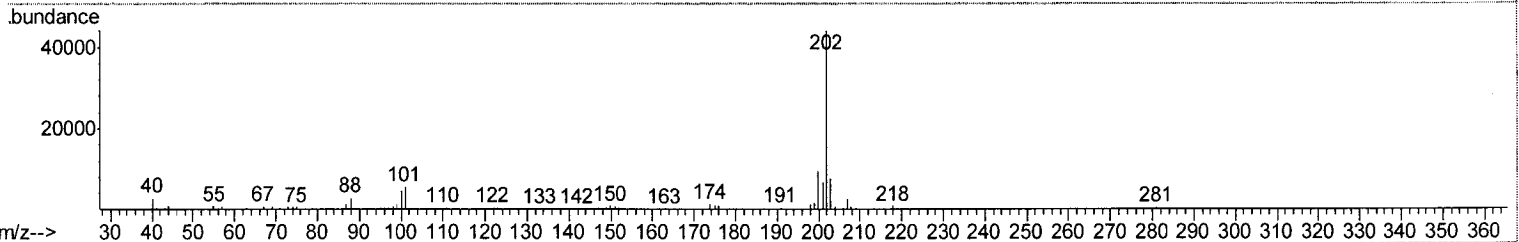
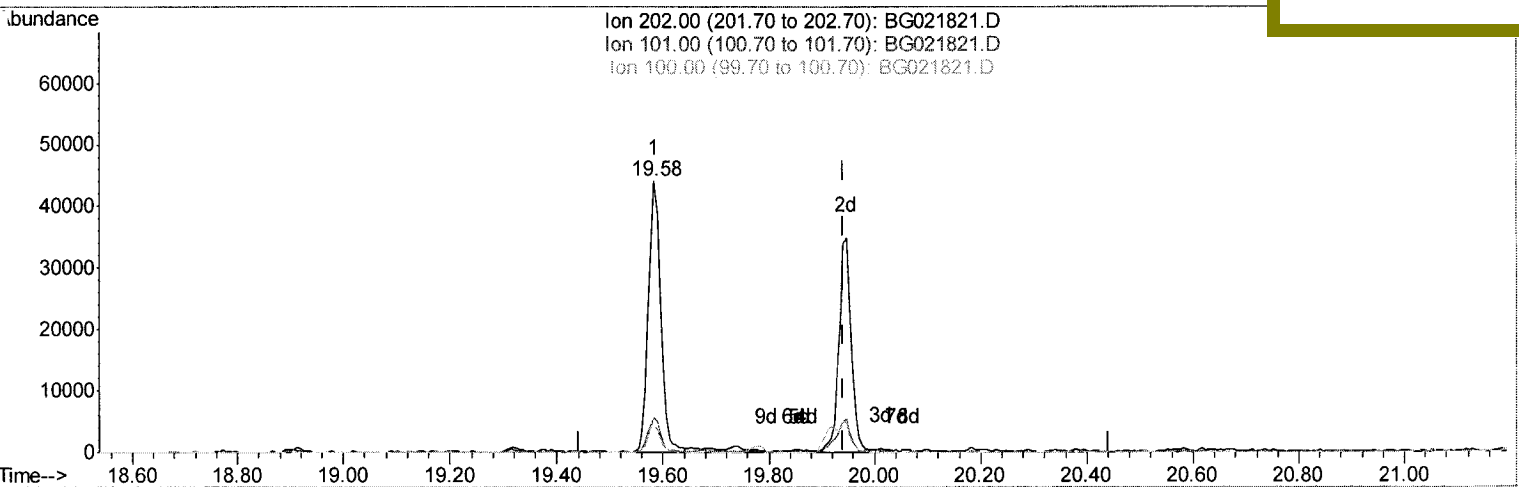
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Quant Time: May 11 19:52:15 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
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 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM



TIC: BG021821.D

(78) Pyrene

19.583min (-0.359) 2.51ng/ul

response 72510

Ion	Exp%	Act%
202.00	100	100
101.00	12.30	12.86
100.00	11.60	10.74
0.00	0.00	0.00

Quantitation Report (Qedit)

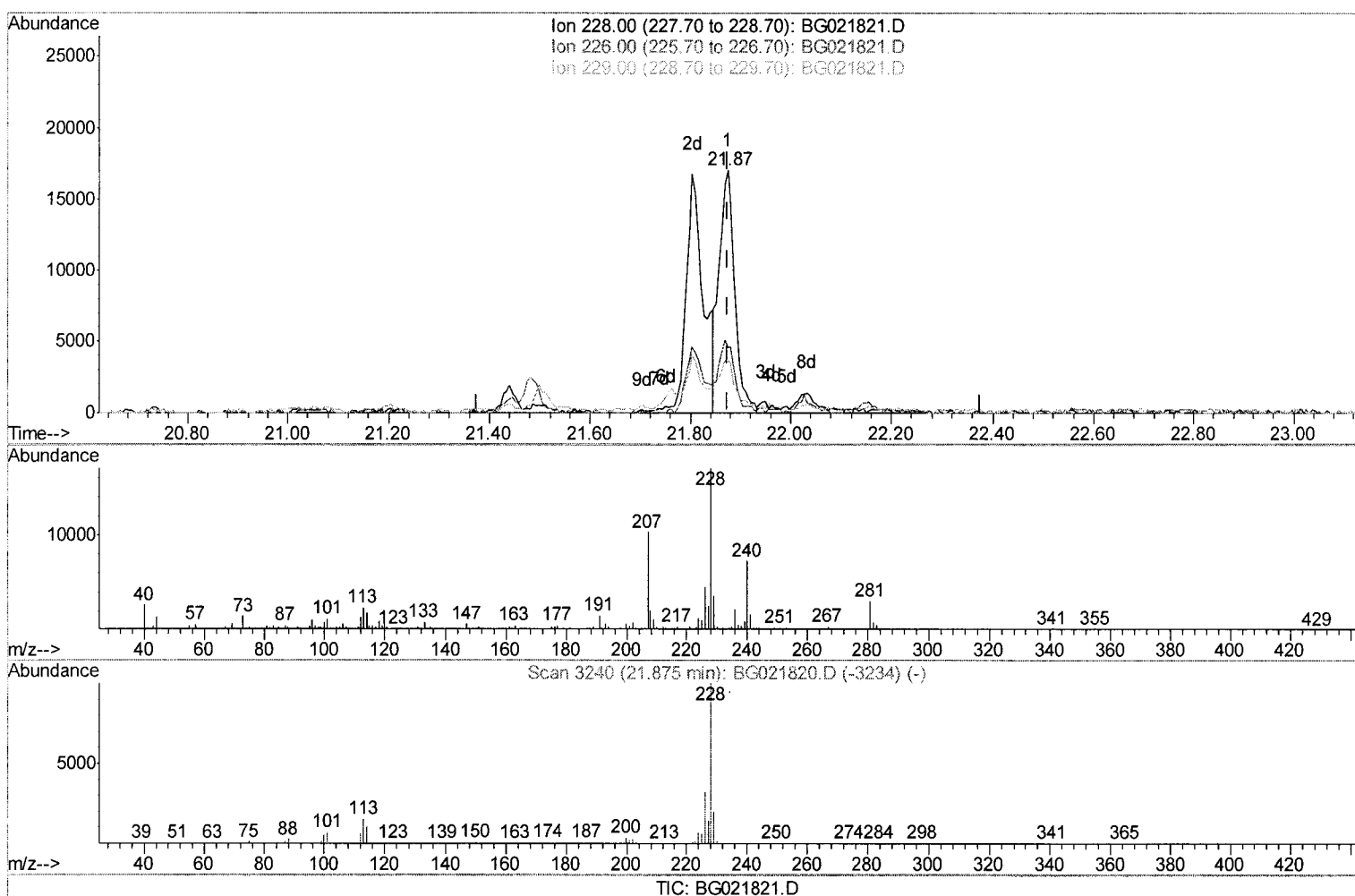
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM

Quant Time: May 11 19:52:15 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



(83) Chrysene

21.874min (-0.000) 1.33ng/ul

response 36429

Ion	Exp%	Act%
228.00	100	100
226.00	29.30	26.64
229.00	20.20	21.31
0.00	0.00	0.00

Quantitation Report (Qedit)

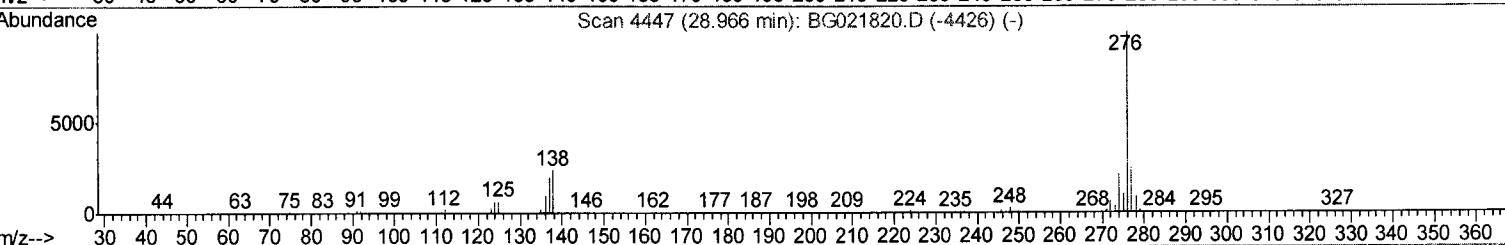
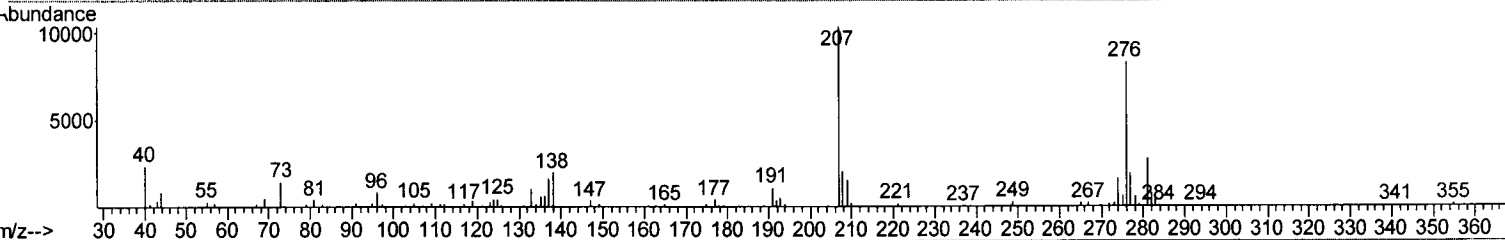
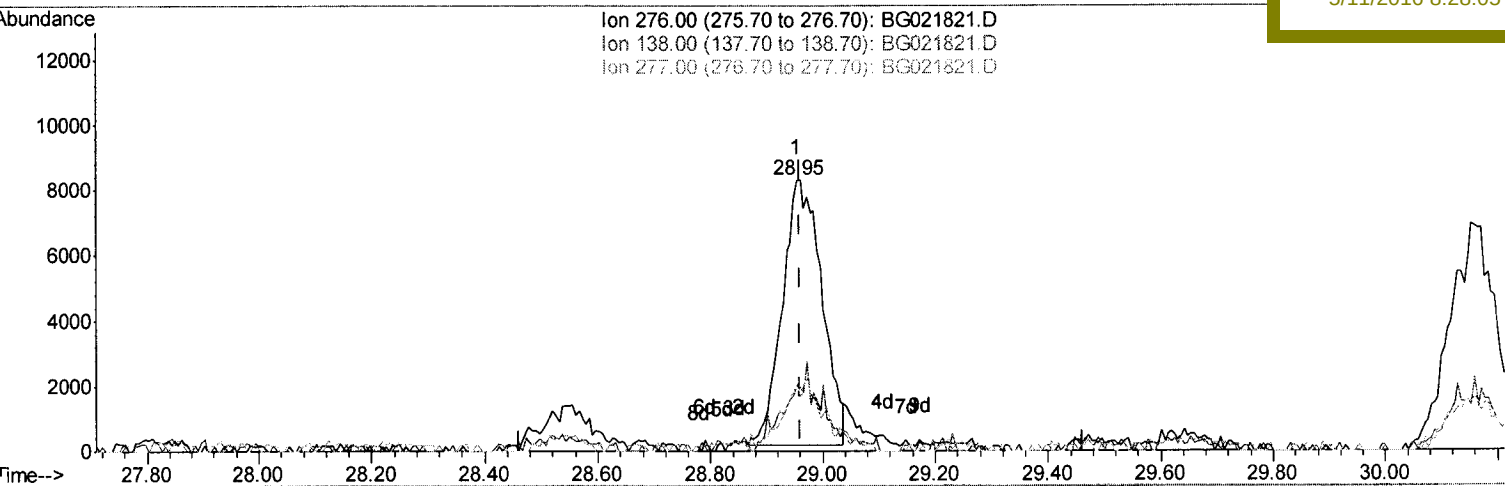
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
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Quant Time: May 11 19:52:15 2016
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 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



TIC: BG021821.D

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

28.954min (-0.006) 1.21ng/ul

response 39405

Ion	Exp%	Act%
276.00	100	100
138.00	19.70	25.16#
277.00	23.80	24.25
0.00	0.00	0.00

Quantitation Report (Qedit)

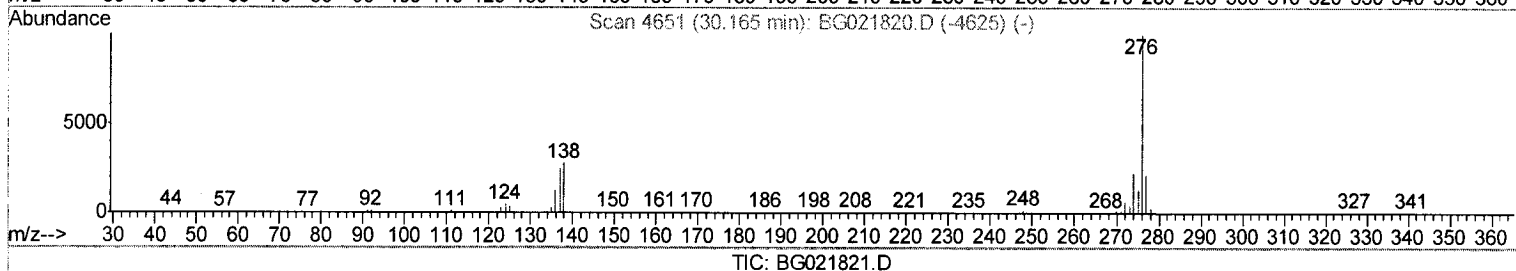
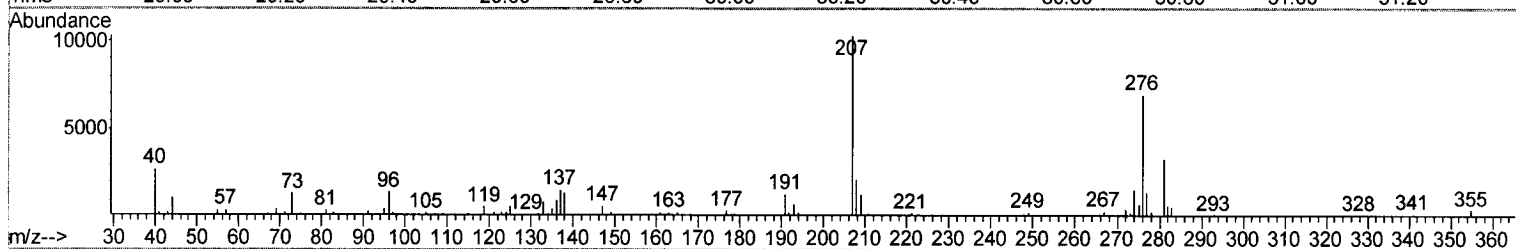
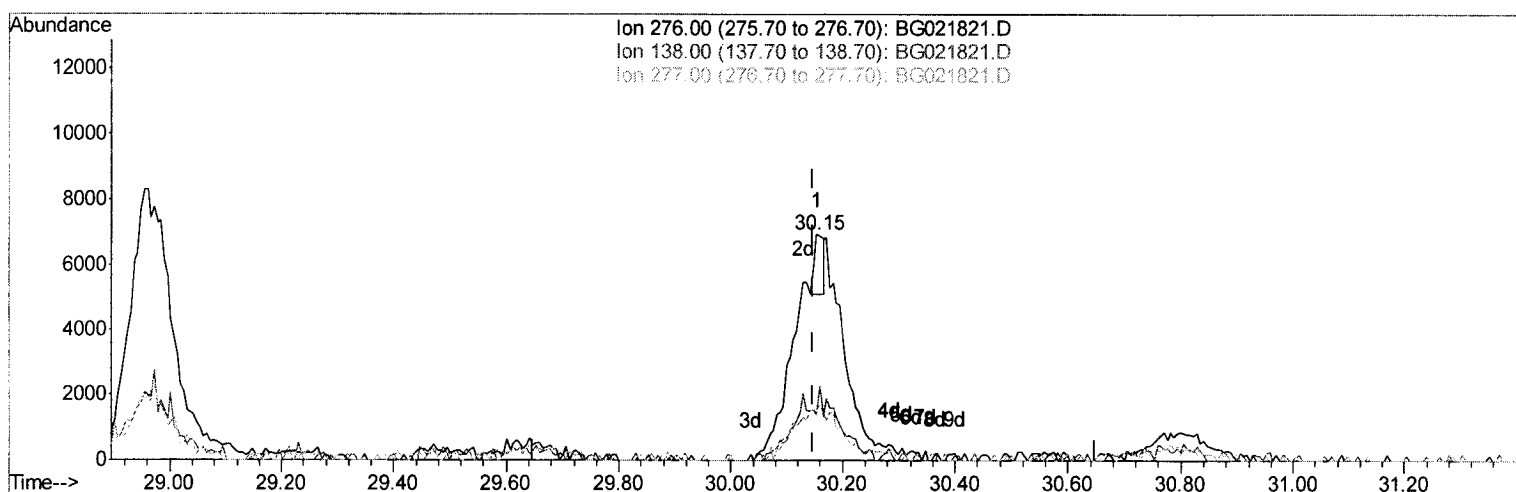
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED

sohil
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Quant Time: May 11 19:52:15 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration



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

30.153min (+0.005) 0.08ng/ul

response 2197

Ion	Exp%	Act%
276.00	100	100
138.00	17.40	20.07
277.00	24.70	20.96
0.00	0.00	0.00

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG051016\
 Data File : BG021821.D
 Acq On : 10 May 2016 18:02
 Operator : UM/SJ
 Sample : H2938-11
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XA9

Manual Integrations
 APPROVED

sohil
 5/11/2016 8:28:05 PM

Quant Time: May 11 11:50:16 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 11 02:37:33 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.18	152	67421	20.00	ng/ul	0.00
18) Naphthalene-d8	11.00	136	369346	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.80	164	219122	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.54	188	470751	20.00	ng/ul	0.00
76) Chrysene-d12	21.83	240	498882	20.00	ng/ul	0.00
84) Perylene-d12	25.16	264	482287	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.57	96	6127	4.39	ng/uL	0.00
5) Phenol-d5	7.33	99	121467	24.28	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.50	67	60261	24.29	ng/ul	0.00
9) 2-Chlorophenol-d4	7.71	132	110439	28.44	ng/ul	0.00
13) 4-Methylphenol-d8	8.88	113	94977m	22.60	ng/ul	0.00
19) Nitrobenzene-d5	9.35	128	58267	24.00	ng/ul	0.00
22) 2-Nitrophenol-d4	10.08	143	53802	35.08	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.62	165	109630	25.28	ng/ul	0.00
29) 4-Chloroaniline-d4	11.14	131	97496m	20.87	ng/ul	0.00
44) Dimethylphthalate-d6	14.20	166	390760	25.39	ng/ul	0.00
47) Acenaphthylene-d8	14.49	160	526356	24.09	ng/ul	0.00
52) 4-Nitrophenol-d4	14.99	143	62649m	23.75	ng/ul	0.00
58) Fluorene-d10	15.79	176	365266	22.54	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.90	200	39180	30.05	ng/ul	0.00
71) Anthracene-d10	17.64	188	525582	22.94	ng/ul	0.00
77) Pyrene-d10	19.92	212	607870	26.03	ng/ul	0.00
88) Benzo(a)pyrene-d12	24.93	264	560440	24.46	ng/ul	0.00

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Target Compounds

						Qvalue
45) Dimethylphthalate	14.24	163	82005	5.23	ng/ul#	99
70) Phenanthrene	17.59	178	26538	1.03	ng/ul#	90
75) Fluoranthene	19.58	202	72510	2.48	ng/ul#	95
78) Pyrene	19.95	202	57302m	1.99	ng/ul	
81) Benzo(a)anthracene	21.80	228	34419	1.24	ng/ul	95
83) Chrysene	21.87	228	41416m	1.51	ng/ul	
86) Benzo(b)fluoranthene	24.10	252	65451	2.37	ng/ul#	87
89) Benzo(a)pyrene	25.00	252	36729	1.34	ng/ul#	88
90) Indeno(1,2,3-cd)pyrene	28.95	276	42168m	1.29	ng/ul	
92) Benzo(g,h,i)perylene	30.15	276	41158m	1.53	ng/ul	

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