

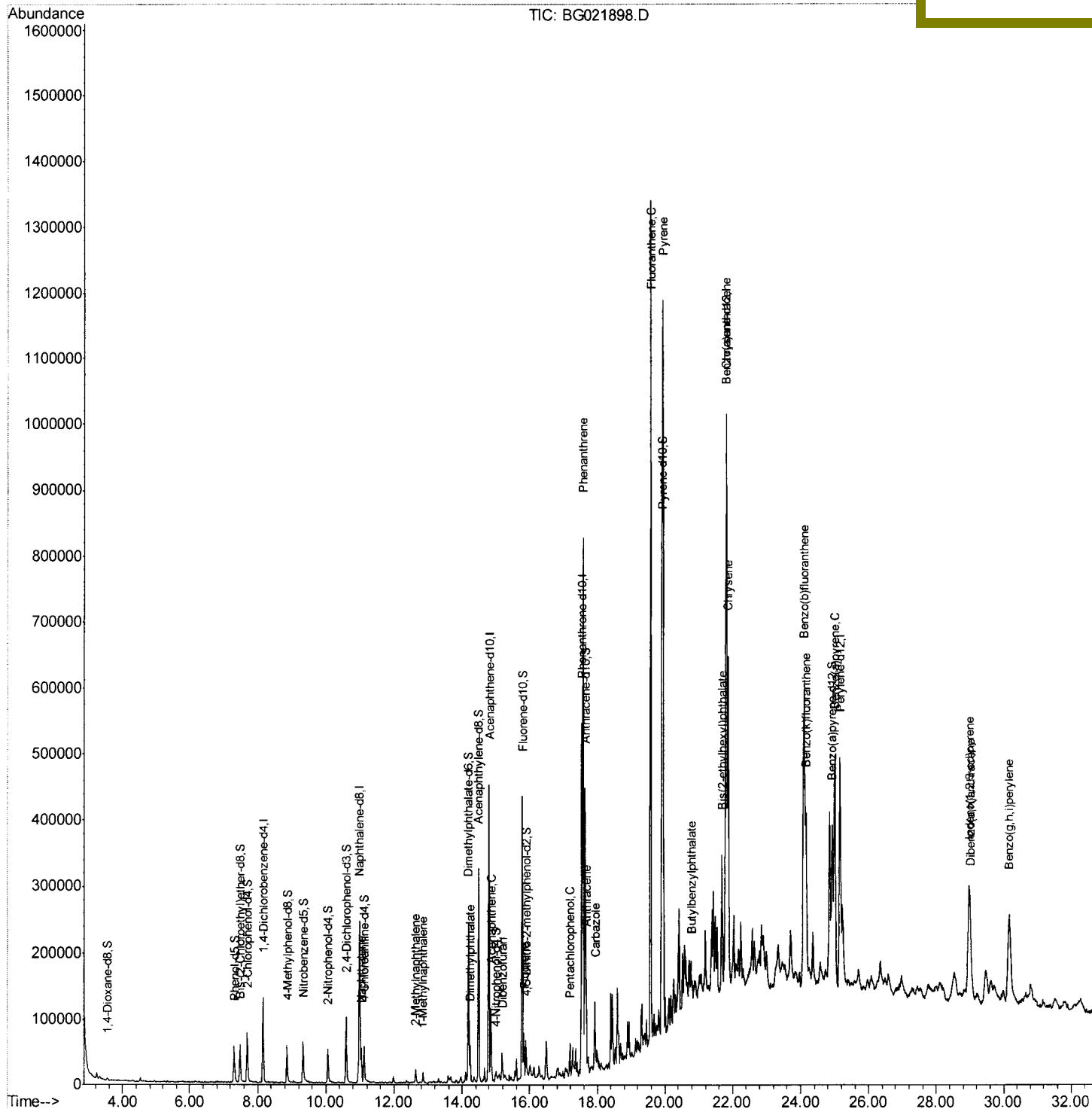
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051516\
Data File : BG021898.D
Acq On : 15 May 2016 18:15
Operator : UM/SJ
Sample : H3096-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9XG5

Quant Time: May 16 14:43:07 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
5/16/2016 7:04:11 PM



Quantitation Report (Qedit)

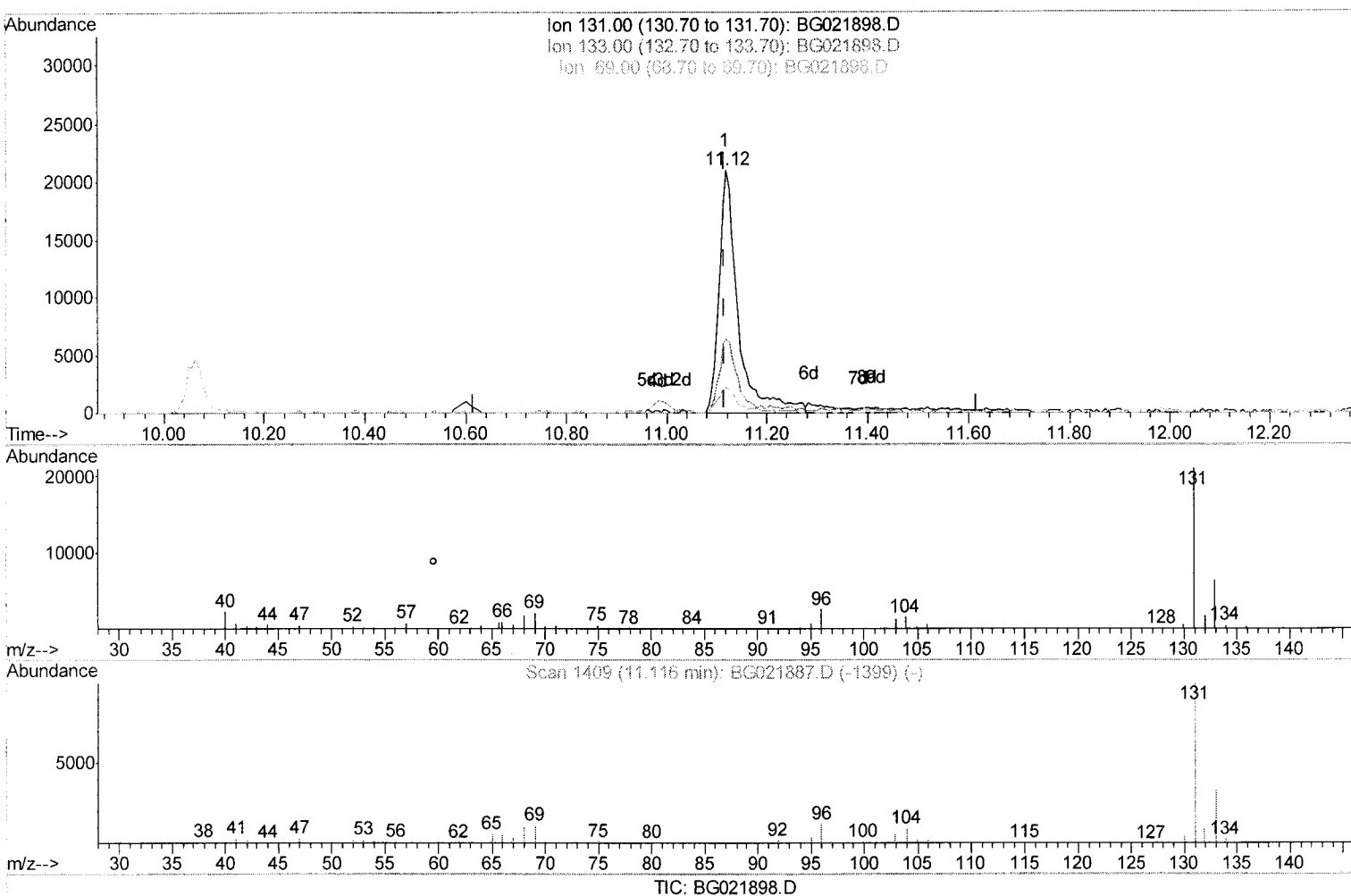
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration



(29) 4-Chloroaniline-d4 (S)

11.118min (+0.003) 15.51ng/ul m U.M
 response 55560
 05/17/16

Ion	Exp%	Act%
131.00	100	100
133.00	34.60	30.39
69.00	23.00	10.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

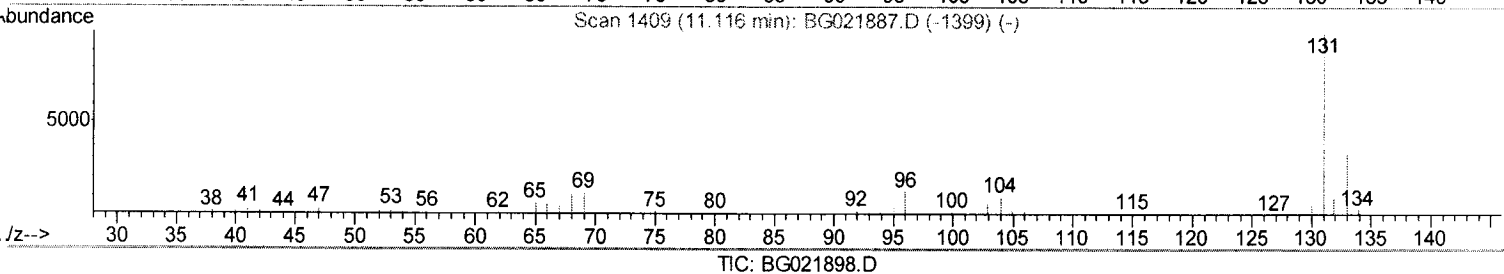
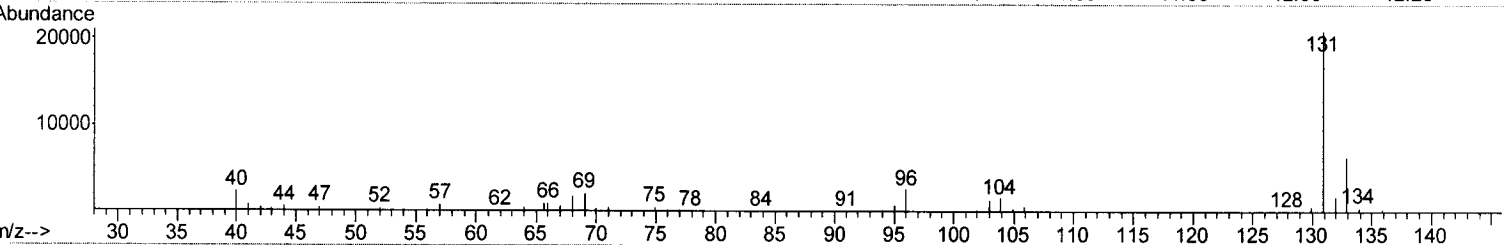
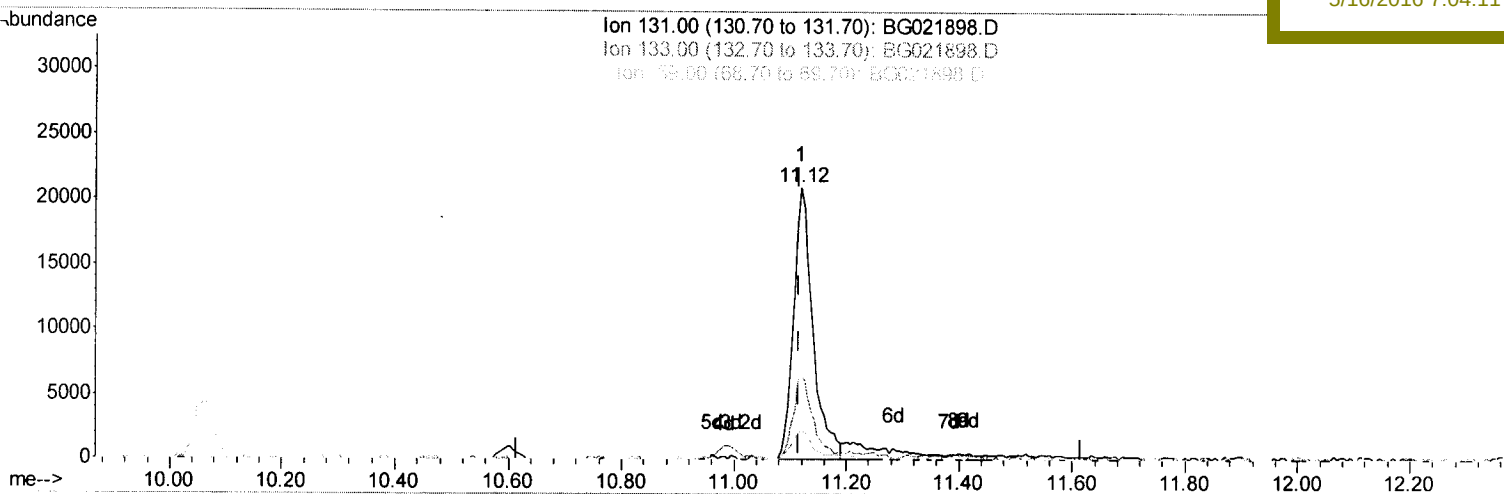
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM



(29) 4-Chloroaniline-d4 (S)

11.118min (+0.003) 14.08ng/ul

response 50409

Ion	Exp%	Act%
131.00	100	100
133.00	34.60	30.39
69.00	23.00	10.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

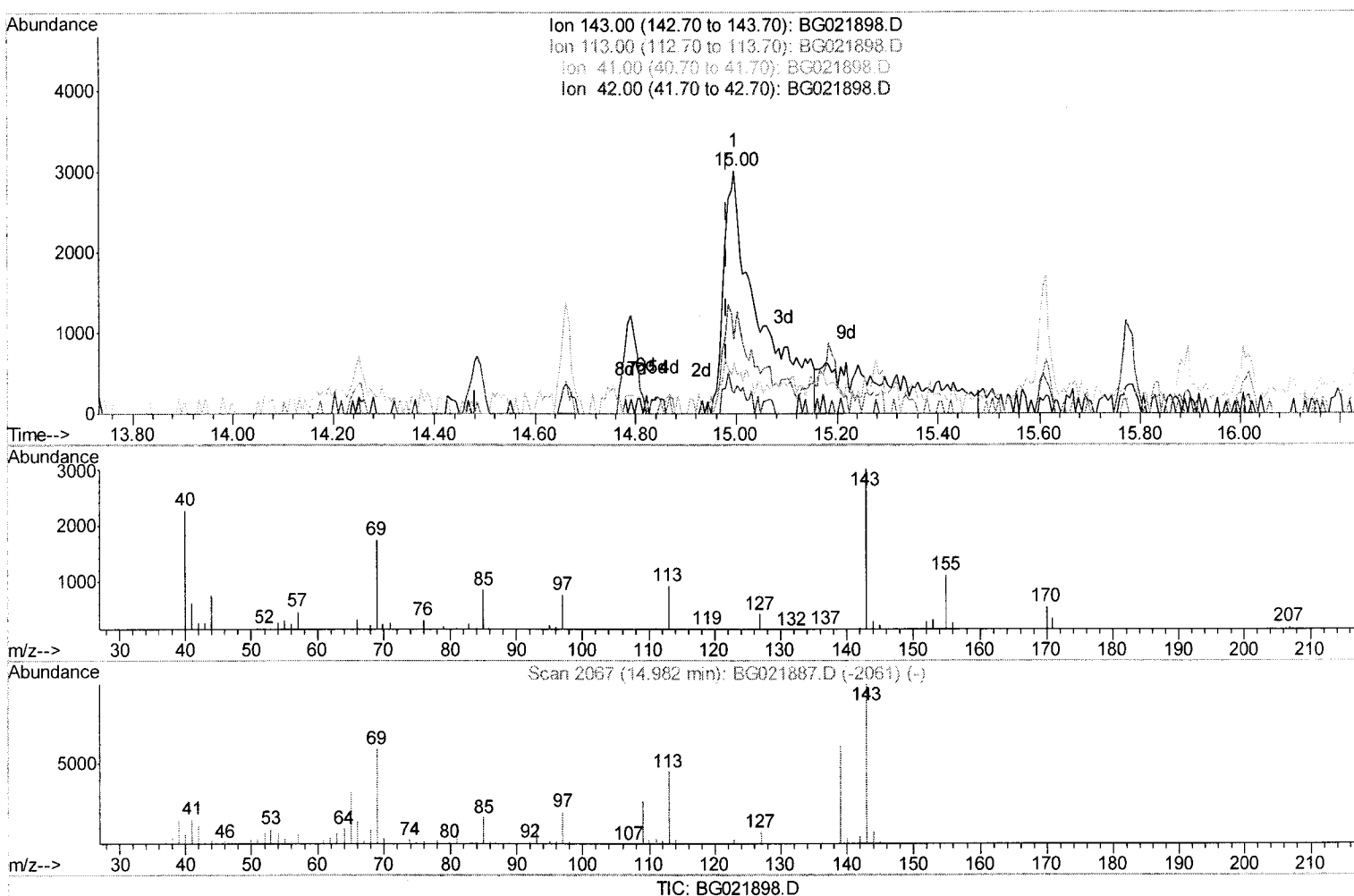
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration



(52) 4-Nitrophenol-d4 (S)

14.996min (+0.015) 6.98ng/ul m

response 14536

Ion	Exp%	Act%
143.00	100	100
113.00	102.70	30.43#
41.00	49.70	20.71#
42.00	33.70	8.86#

U.M
 05/17/16

Quantitation Report (Qedit)

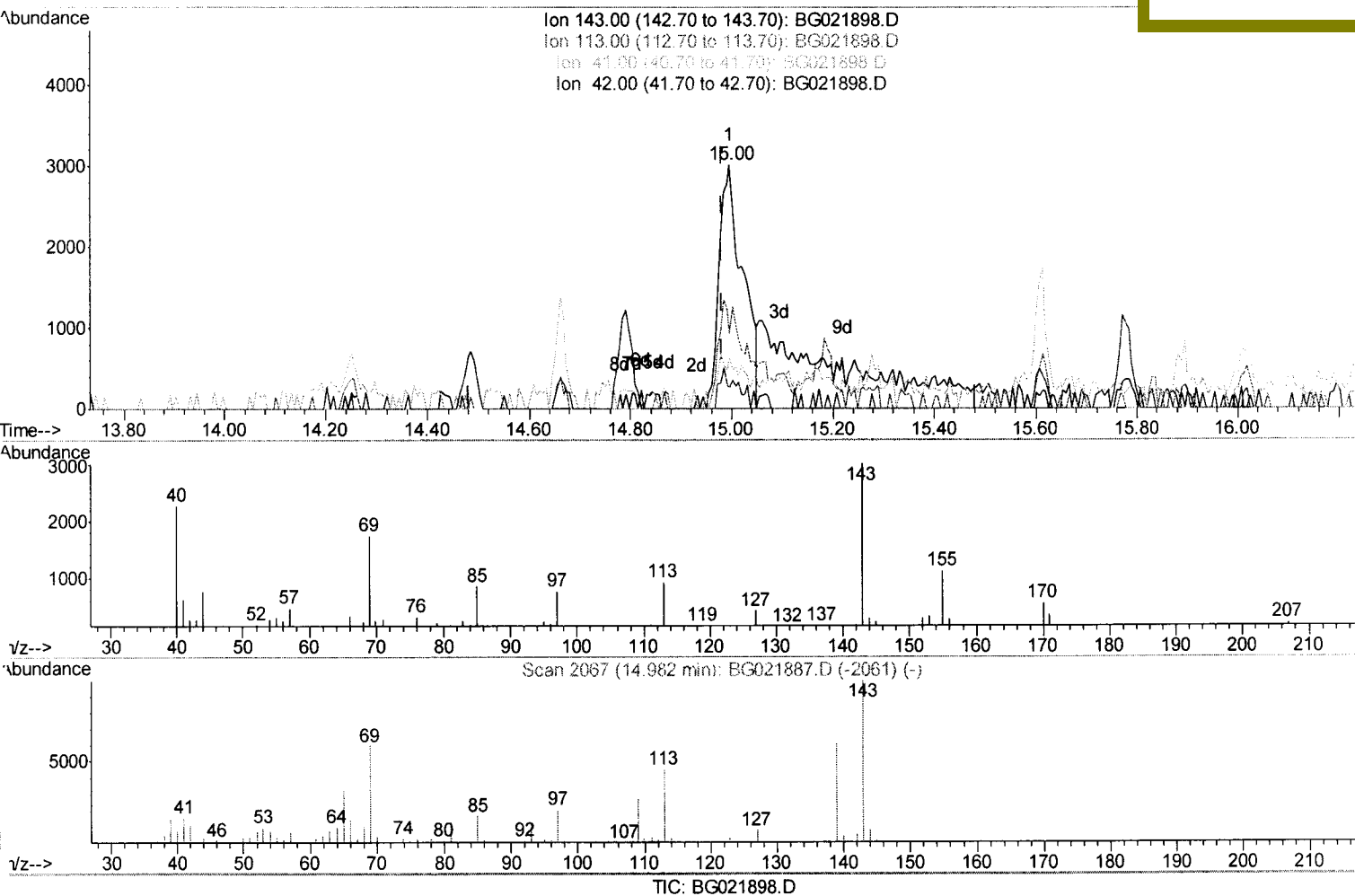
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021898.D
Acq On : 15 May 2016 18:15
Operator : UM/SJ
Sample : H3096-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9XG5

Quant Time: May 16 01:30:01 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Manual Integrations

sohil
5/16/2016 7:04:11 PM



(52) 4-Nitrophenol-d4 (S)

14.996min (+0.015) 4.67ng/ul

response 9726

Ion	Exp%	Act%
143.00	100	100
113.00	102.70	30.43#
41.00	49.70	20.71#
42.00	33.70	8.86#

Quantitation Report (Qedit)

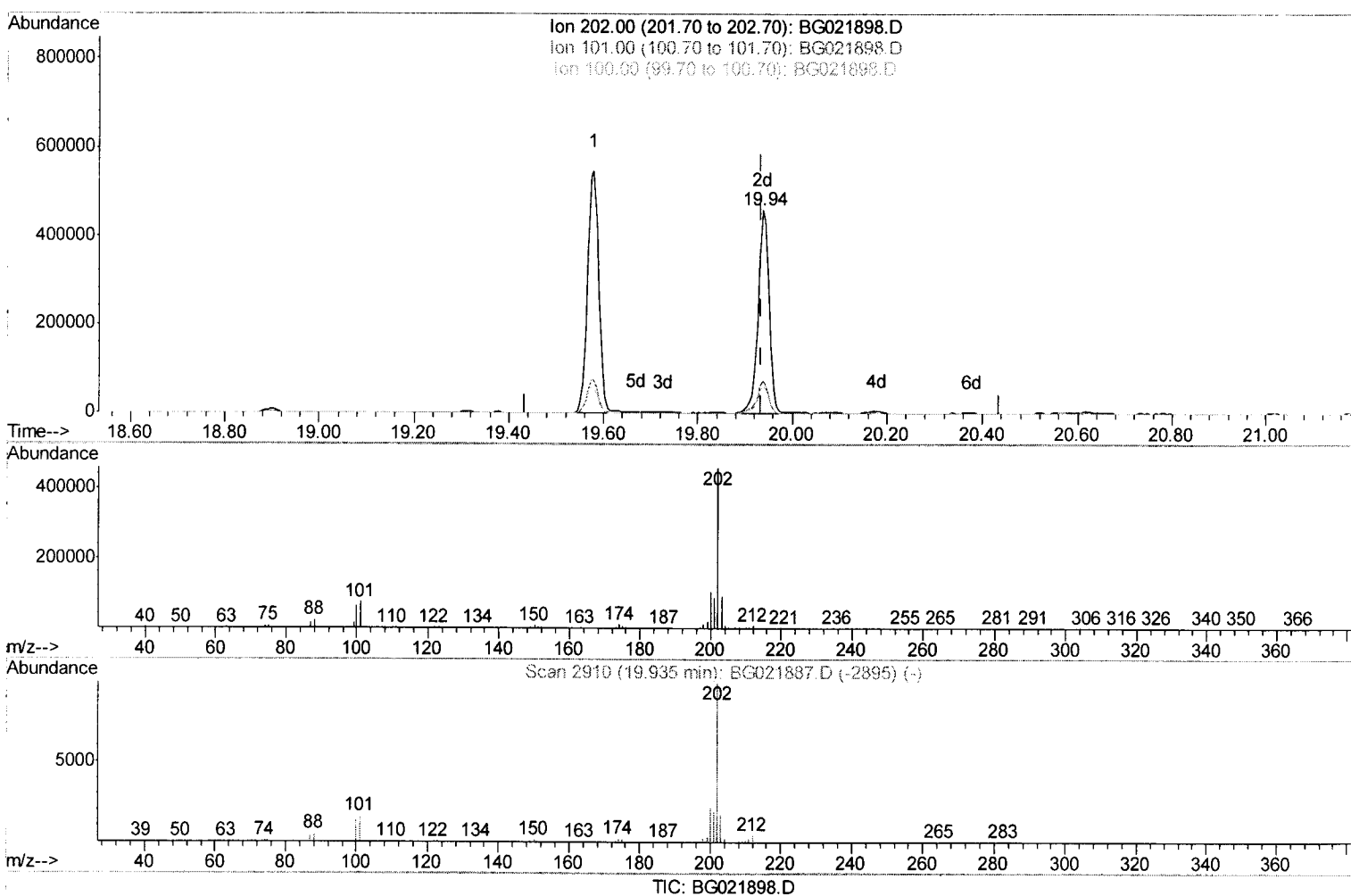
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration



(78) Pyrene

19.938min (+0.003) 35.31ng/ul m

response 756913

Ion	Exp%	Act%
202.00	100	100
101.00	12.30	16.25#
100.00	11.60	13.54
0.00	0.00	0.00

U.M
 05/17/16

Quantitation Report (Qedit)

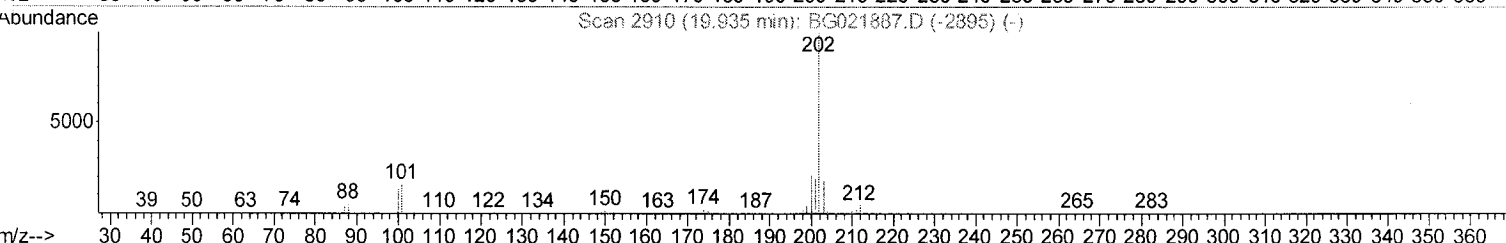
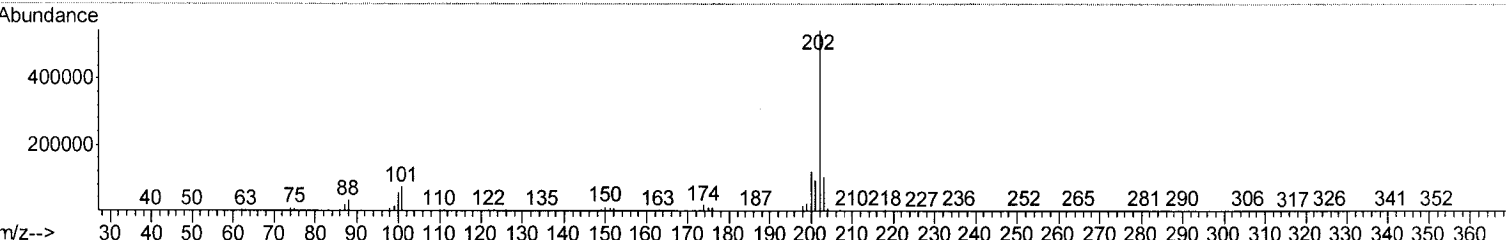
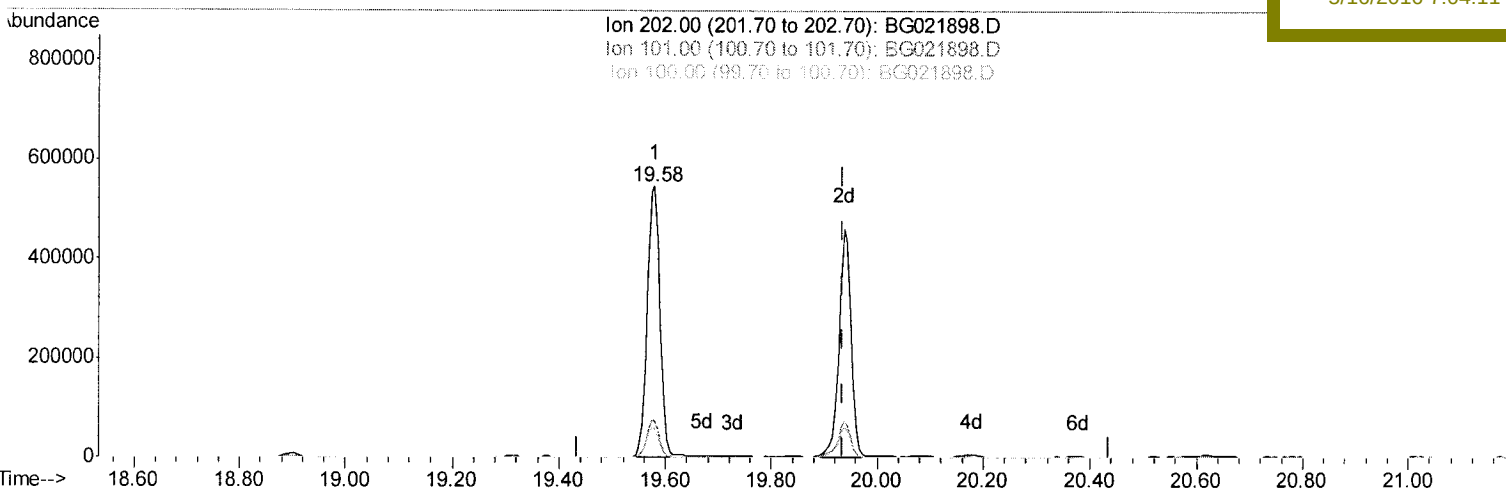
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM



TIC: BG021898.D

(78) Pyrene

19.579min (-0.356) 42.52ng/ul

response 911663

Ion	Exp%	Act%
202.00	100	100
101.00	12.30	13.49
100.00	11.60	10.66
0.00	0.00	0.00

Quantitation Report (Qedit)

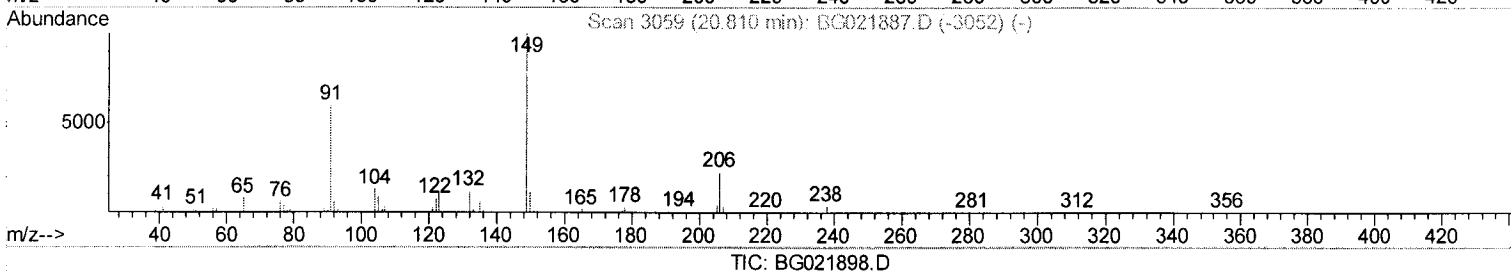
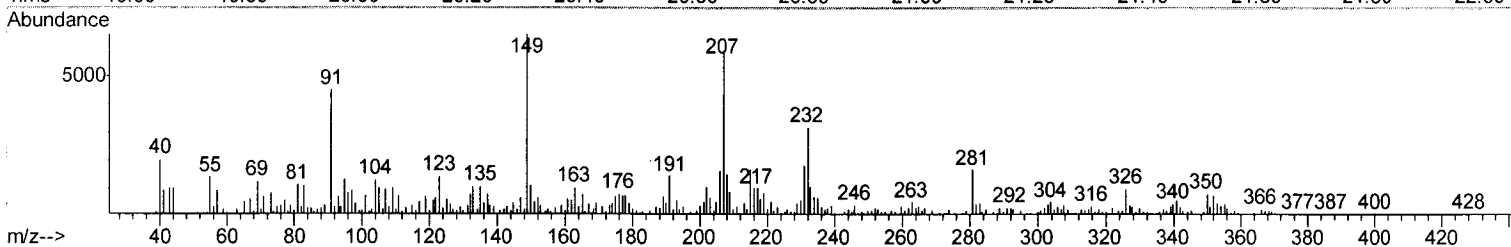
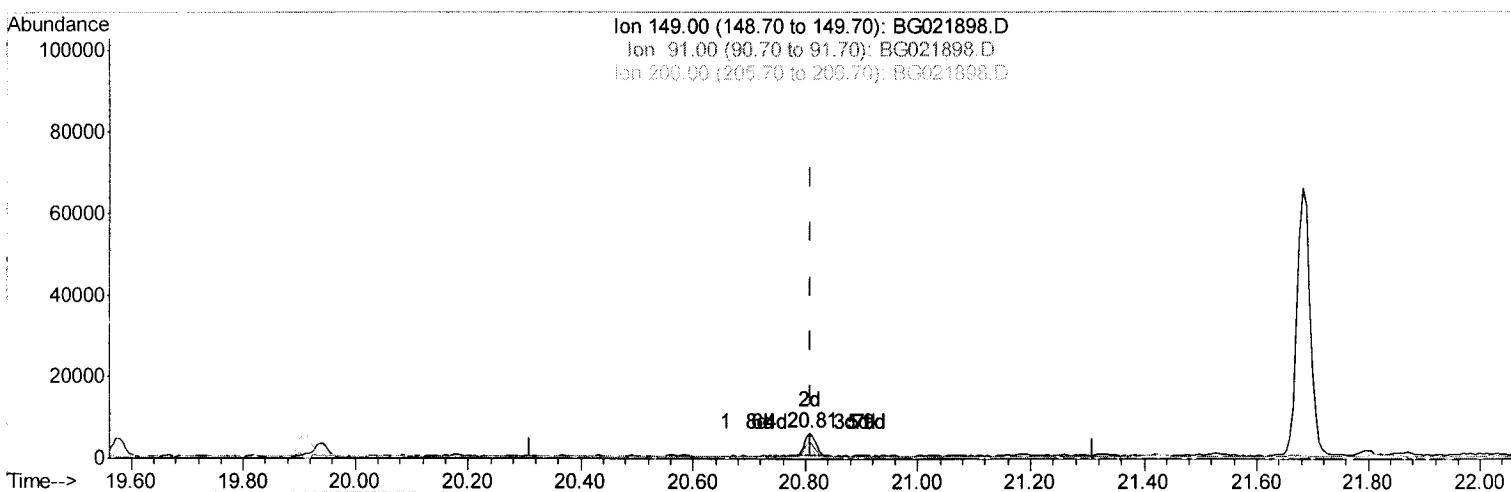
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration



(79) Butylbenzylphthalate

20.807min (-0.003) 1.59ng/ul m U.M
05/17/16

response 7553

Ion	Exp%	Act%
149.00	100	100
91.00	82.30	69.71
206.00	19.40	25.53#
0.00	0.00	0.00

Quantitation Report (Qedit)

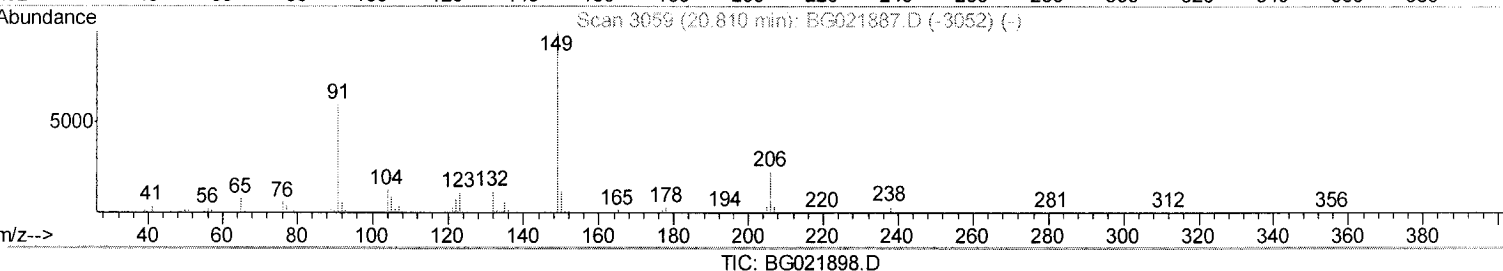
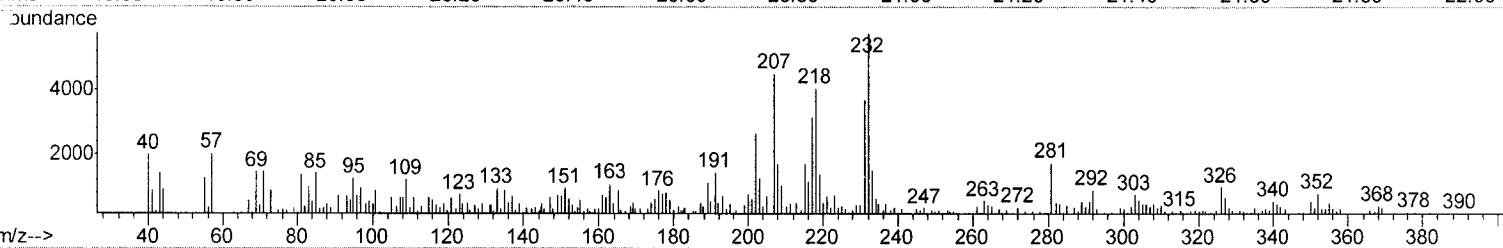
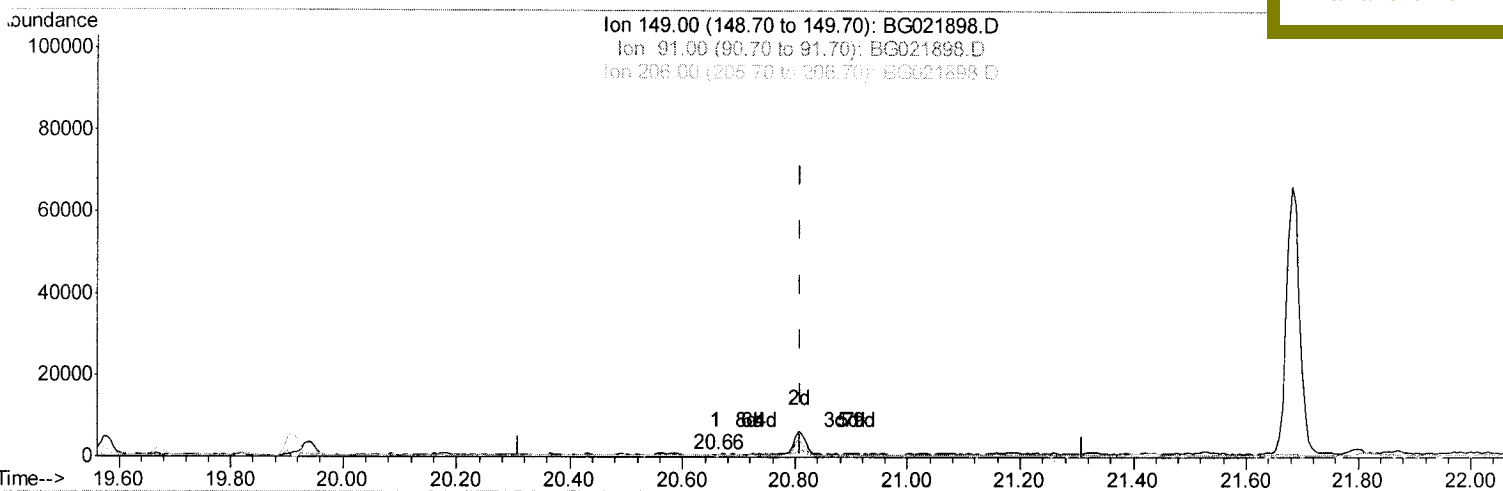
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Quant Time: Mav 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM



(79) Butylbenzylphthalate

20.660min (-0.150) 0.04ng/ul

response 186

Ion	Exp%	Act%
149.00	100	100
91.00	82.30	98.40
206.00	19.40	20.32
0.00	0.00	0.00

Quantitation Report (Qedit)

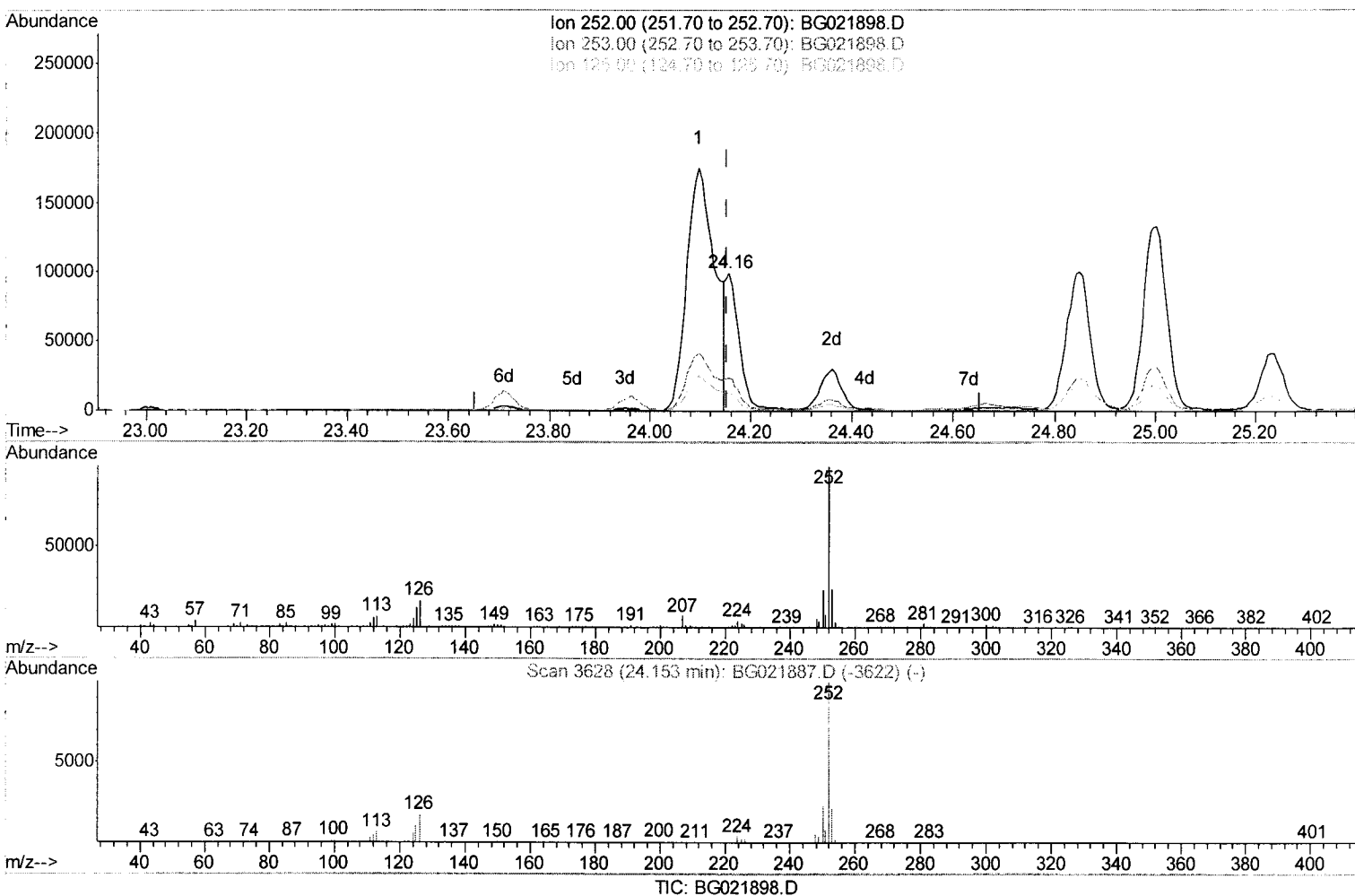
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration



(87) Benzo(k)fluoranthene

24.156min (+0.003) 8.45ng/ul m *U.M*
05/17/16
 response 193717

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.99
125.00	9.60	12.75#
0.00	0.00	0.00

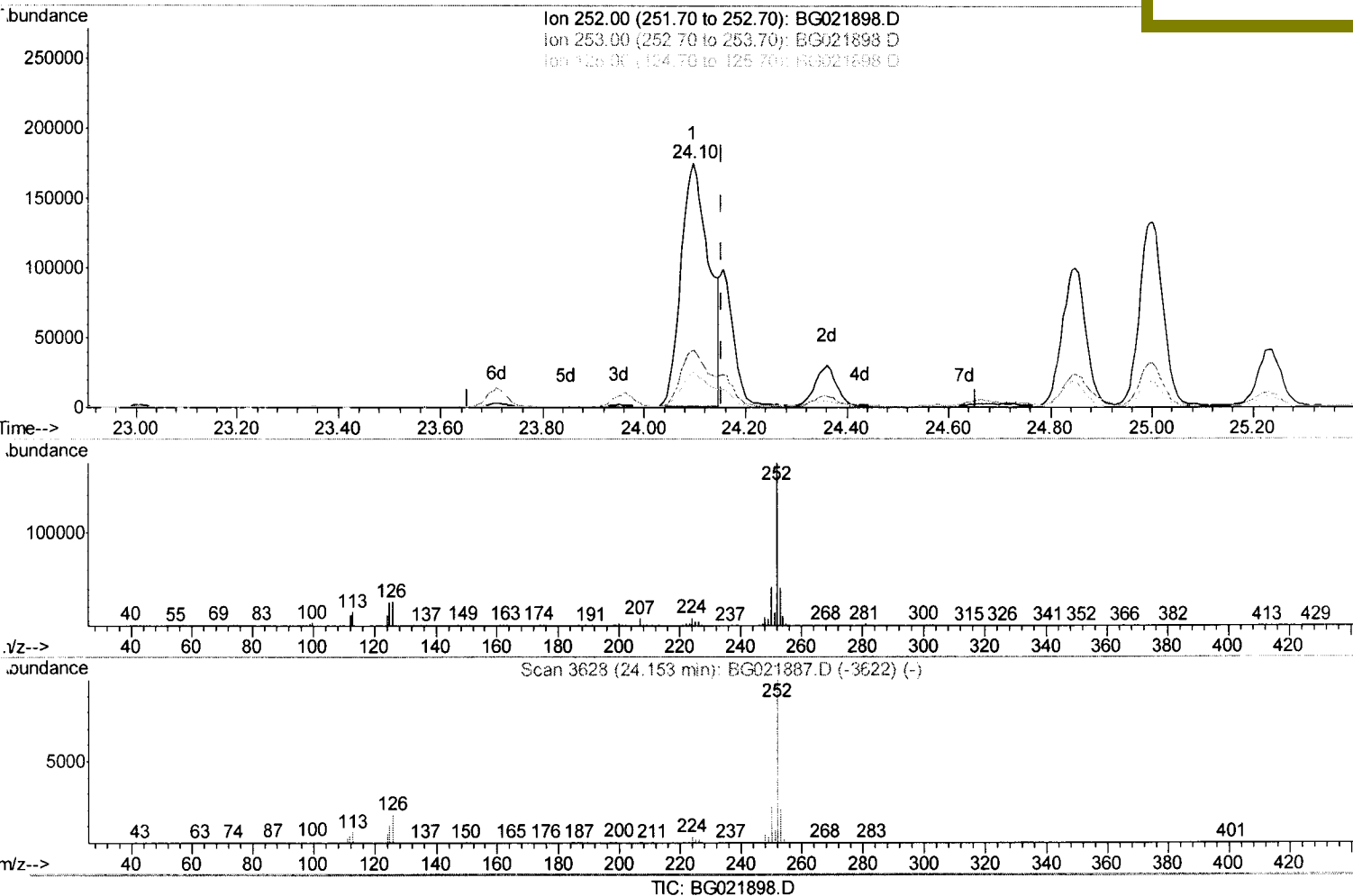
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
Data File : BG021898.D
Acq On : 15 May 2016 18:15
Operator : UM/SJ
Sample : H3096-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9XG5

Quant Time: May 16 01:30:01 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
5/16/2016 7:04:11 PM



(87) Benzo(k)fluoranthene

24.097min (-0.056) 28.93ng/ul

response 663646

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.44
125.00	9.60	14.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

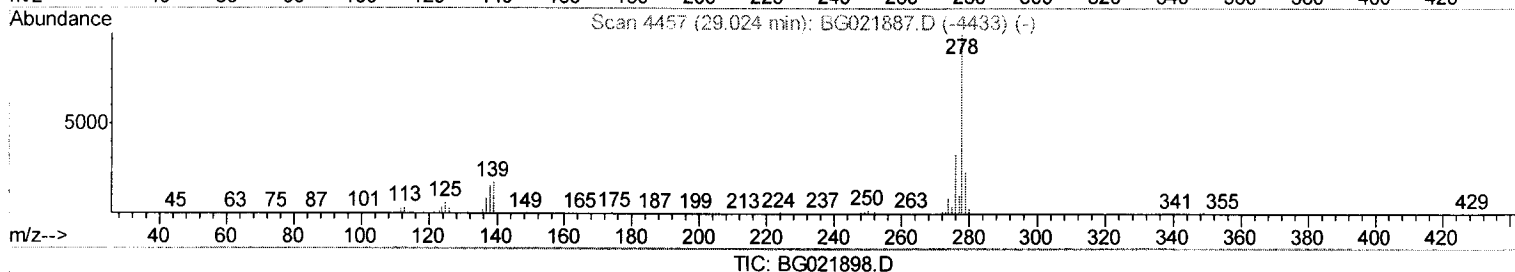
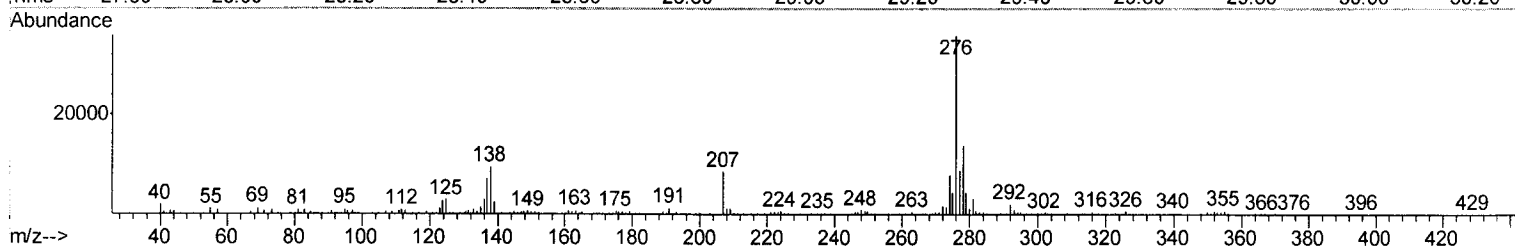
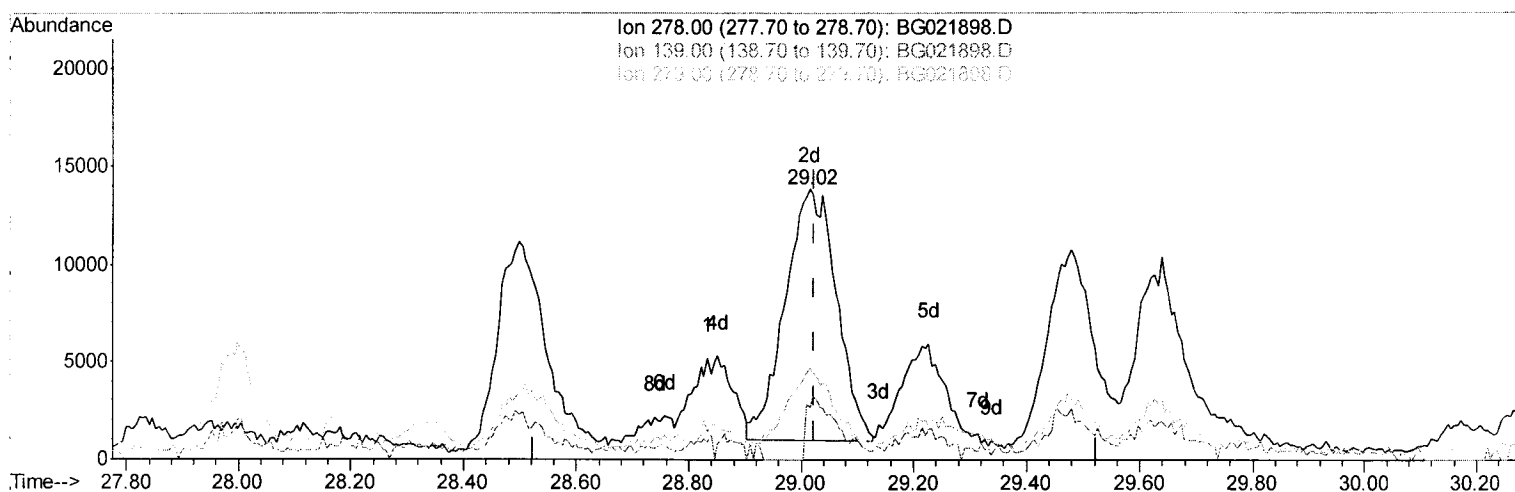
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration



(91) Dibenzo(a,h)anthracene

29.015min (-0.009) 3.90ng/ul m U.M
 response 82008 05/17/16

Ion	Exp%	Act%
278.00	100	100
139.00	15.10	19.07#
279.00	24.80	33.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

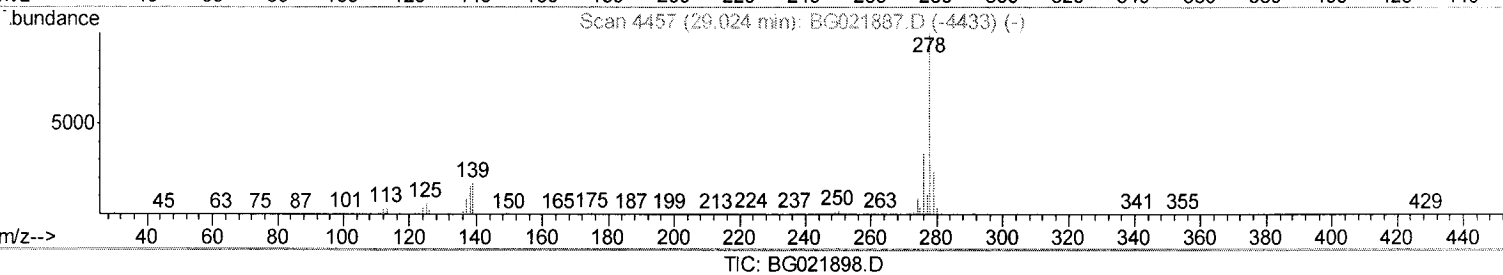
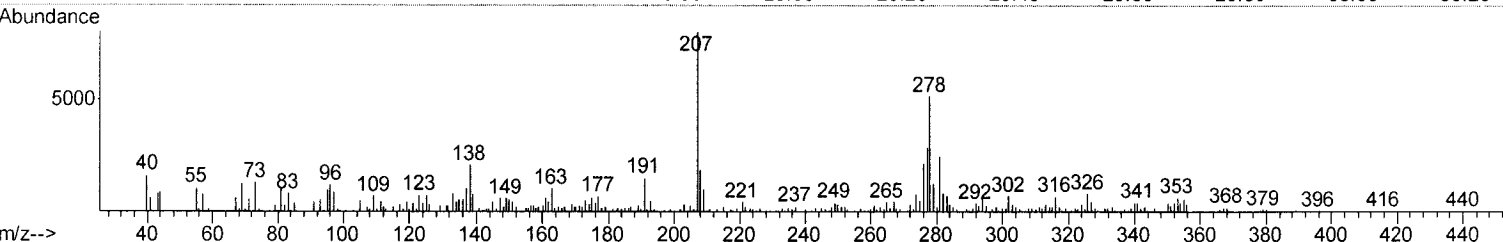
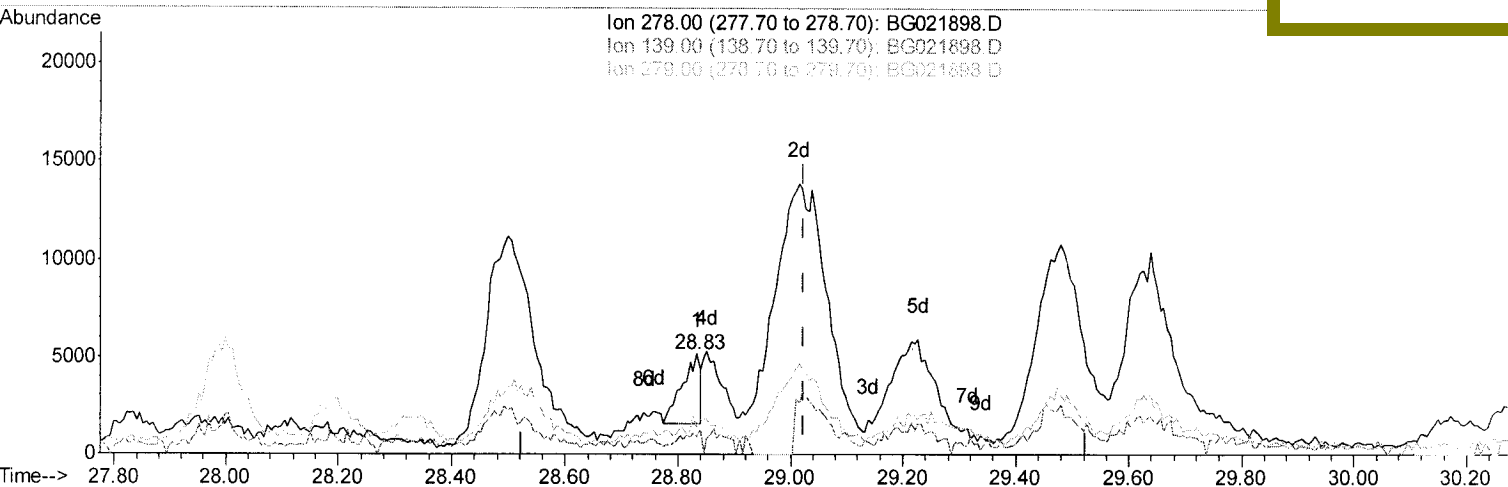
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleID :
 D9XG5

Quant Time: May 16 01:30:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM



(91) Dibenzo(a,h)anthracene

28.833min (-0.191) 0.37ng/ul

response 7750

Ion	Exp%	Act%
278.00	100	100
139.00	15.10	17.76
279.00	24.80	26.64
0.00	0.00	0.00

Quantitation Report (Qedit)

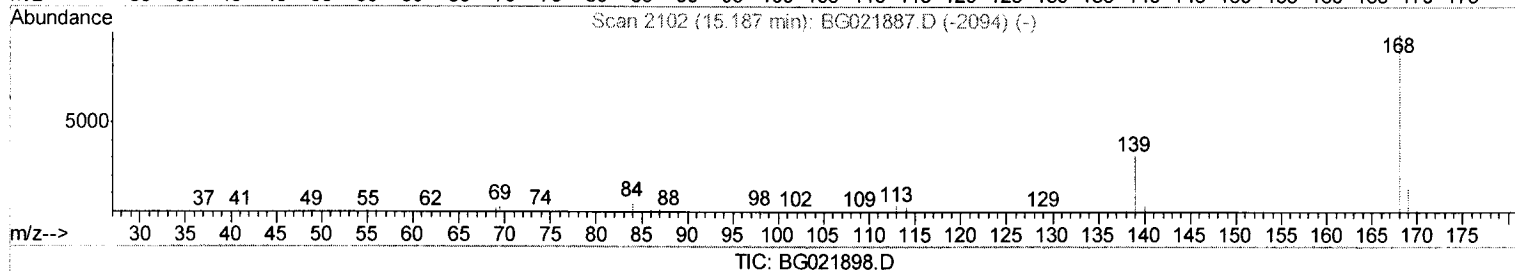
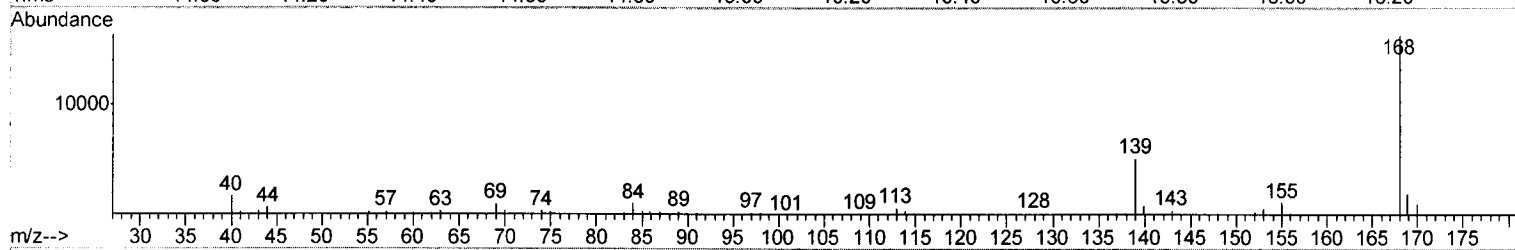
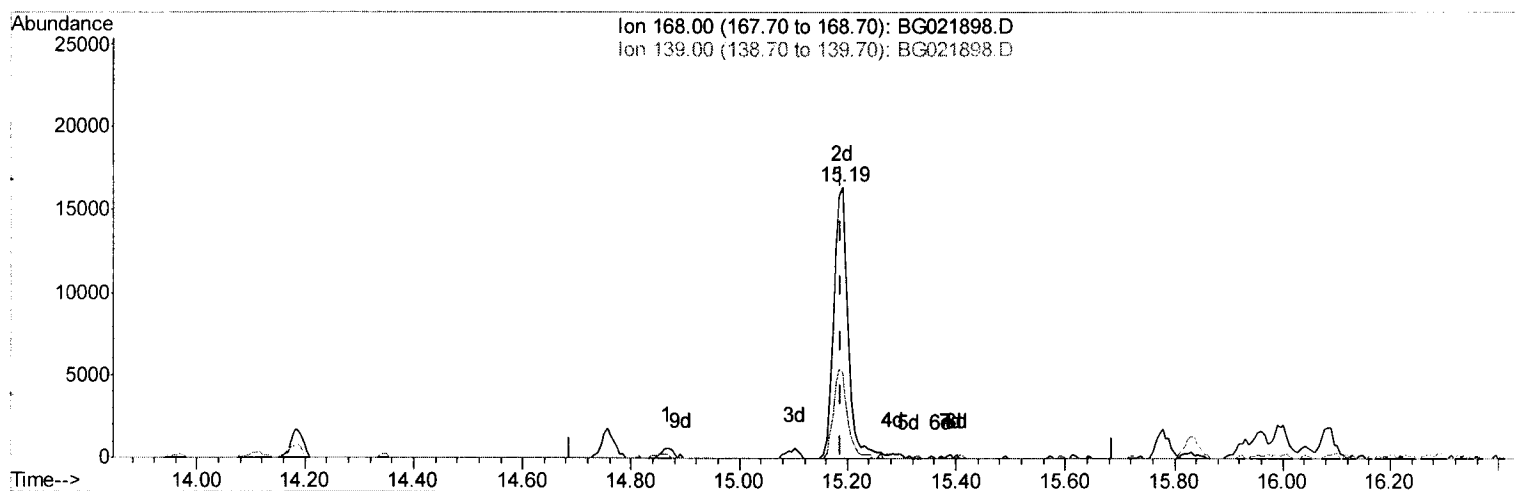
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 Client Sampled :
 D9XG5

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM

Quant Time: May 16 03:45:49 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration



(54) Dibenzofuran

15.190min (+0.003) 1.88ng/ul m

response 30926

Ion	Exp%	Act%
168.00	100	100
139.00	44.00	31.46#
0.00	0.00	0.00
0.00	0.00	0.00

U, M
 05/17/16

Quantitation Report (Qedit)

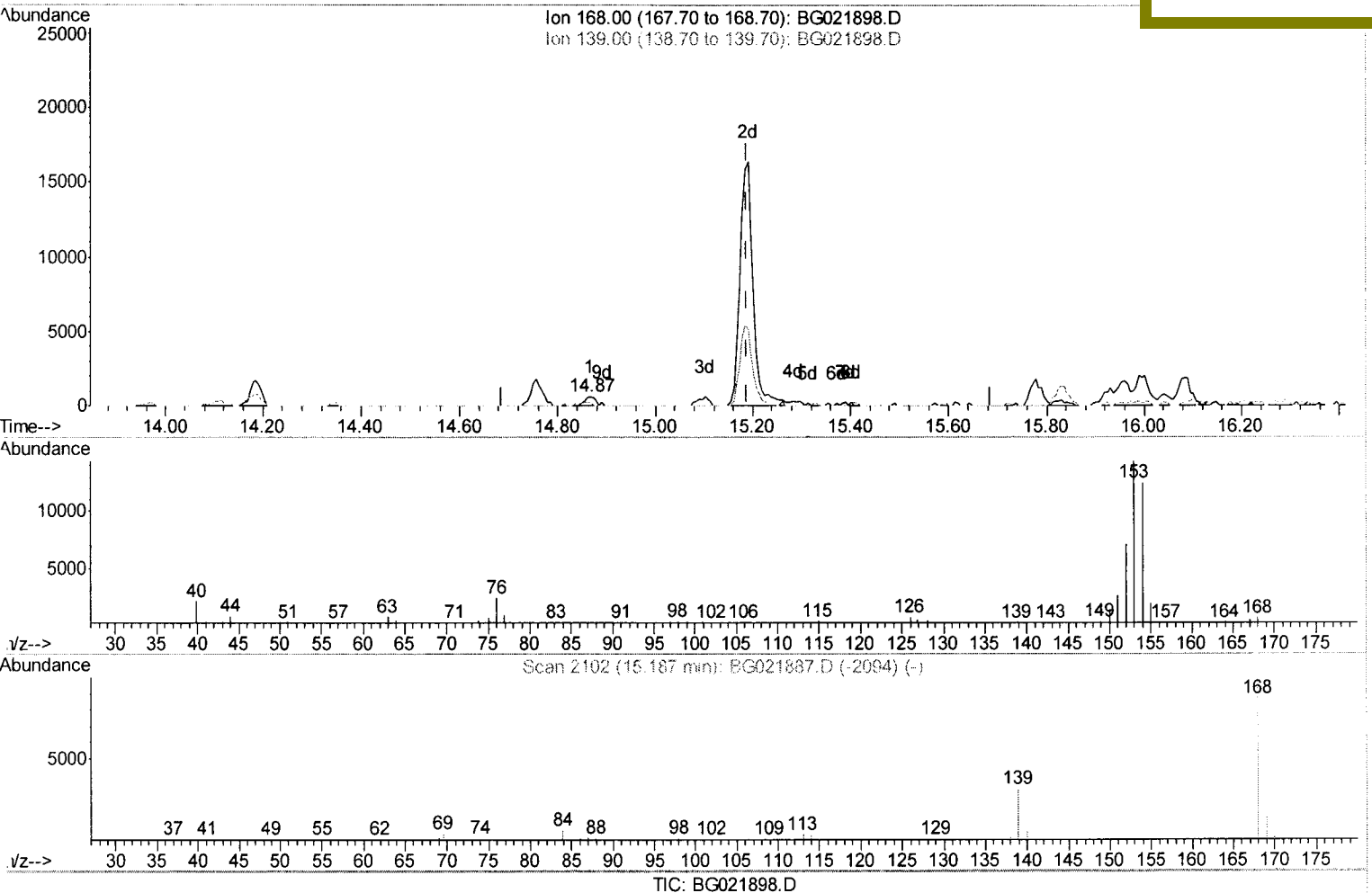
Data Path : Z:\HPCHEM1\BNA_G\Data\BG051516\
Data File : BG021898.D
Acq On : 15 May 2016 18:15
Operator : UM/SJ
Sample : H3096-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9XG5

Manual Integrations
APPROVED

sohil
5/16/2016 7:04:11 PM

Quant Time: May 16 03:45:49 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration



(54) Dibenzofuran

14.867min (-0.320) 0.05ng/ul

response 870

Ion	Exp%	Act%
168.00	100	100
139.00	44.00	38.64
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG051516\
 Data File : BG021898.D
 Acq On : 15 May 2016 18:15
 Operator : UM/SJ
 Sample : H3096-10
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG5

Quant Time: May 16 14:43:07 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration

Manual Integrations
 APPROVED

sohil
 5/16/2016 7:04:11 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	56009	20.00	ng/ul	0.00
18) Naphthalene-d8	10.99	136	283130	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.79	164	172903	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.53	188	373508	20.00	ng/ul	0.00
76) Chrysene-d12	21.82	240	370553	20.00	ng/ul	0.00
84) Perylene-d12	25.15	264	374309	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.54	96	2864	2.47	ng/uL	0.00
5) Phenol-d5	7.32	99	55546	13.37	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.48	67	31607	15.34	ng/ul	0.00
9) 2-Chlorophenol-d4	7.69	132	57721	17.89	ng/ul	0.00
13) 4-Methylphenol-d8	8.87	113	34596	9.91	ng/ul	0.00
19) Nitrobenzene-d5	9.34	128	30992	16.65	ng/ul	0.00
22) 2-Nitrophenol-d4	10.06	143	34338	29.21	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.60	165	60431	18.18	ng/ul	0.00
29) 4-Chloroaniline-d4	11.12	131	55560m	15.51	ng/ul	0.00
44) Dimethylphthalate-d6	14.19	166	214895	17.69	ng/ul	0.00
47) Acenaphthylene-d8	14.49	160	293436	17.02	ng/ul	0.00
52) 4-Nitrophenol-d4	15.00	143	14536m	6.98	ng/ul	0.01
58) Fluorene-d10	15.78	176	202310	15.82	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.90	200	20909	20.21	ng/ul	0.00
71) Anthracene-d10	17.63	188	290056	15.95	ng/ul	0.00
77) Pyrene-d10	19.91	212	317923	18.33	ng/ul	0.00
88) Benzo(a)pyrene-d12	24.93	264	298325	16.77	ng/ul	0.01

Target Compounds

					Qvalue	
28) Naphthalene	11.04	128	58484	4.12	ng/ul	99
34) 2-Methylnaphthalene	12.63	142	14702	1.41	ng/ul	97
35) 1-Methylnaphthalene	12.85	142	11285	1.09	ng/ul#	94
45) Dimethylphthalate	14.23	163	43532	3.52	ng/ul	98
50) Acenaphthene	14.86	153	57172	4.66	ng/ul	98
54) Dibenzofuran	15.19	168	30926m	1.88	ng/ul	96
59) Fluorene	15.84	166	33082	2.32	ng/ul	96
69) Pentachlorophenol	17.19	266	2908	1.69	ng/ul#	76
70) Phenanthrene	17.58	178	583624	28.58	ng/ul	97
72) Anthracene	17.67	178	108887	5.25	ng/ul	98
73) Carbazole	17.93	167	89926	5.00	ng/ul#	96
75) Fluoranthene	19.58	202	911663	39.29	ng/ul#	94
78) Pyrene	19.94	202	756913m	35.31	ng/ul	94
79) Butylbenzylphthalate	20.81	149	7553m	1.59	ng/ul	96
81) Benzo(a)anthracene	21.80	228	434693	21.08	ng/ul	97
82) Bis(2-ethylhexyl)phthalate	21.68	149	108194	13.98	ng/ul	98
83) Chrysene	21.86	228	403320	19.77	ng/ul	95
86) Benzo(b)fluoranthene	24.10	252	663646	30.97	ng/ul#	95
87) Benzo(k)fluoranthene	24.16	252	193717m	8.45	ng/ul	95
89) Benzo(a)pyrene	25.00	252	436090	20.45	ng/ul#	93
90) Indeno(1,2,3-cd)pyrene	28.97	276	332049	13.14	ng/ul	95
91) Dibenzo(a,h)anthracene	29.02	278	82008m	3.90	ng/ul	95
92) Benzo(g,h,i)perylene	30.17	276	310367	14.88	ng/ul#	93

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG051516\
Data File : BG021898.D
Acq On : 15 May 2016 18:15
Operator : UM/SJ
Sample : H3096-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9XG5

Manual Integrations
APPROVED

sohil
5/16/2016 7:04:11 PM

Quant Time: May 16 14:43:07 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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