

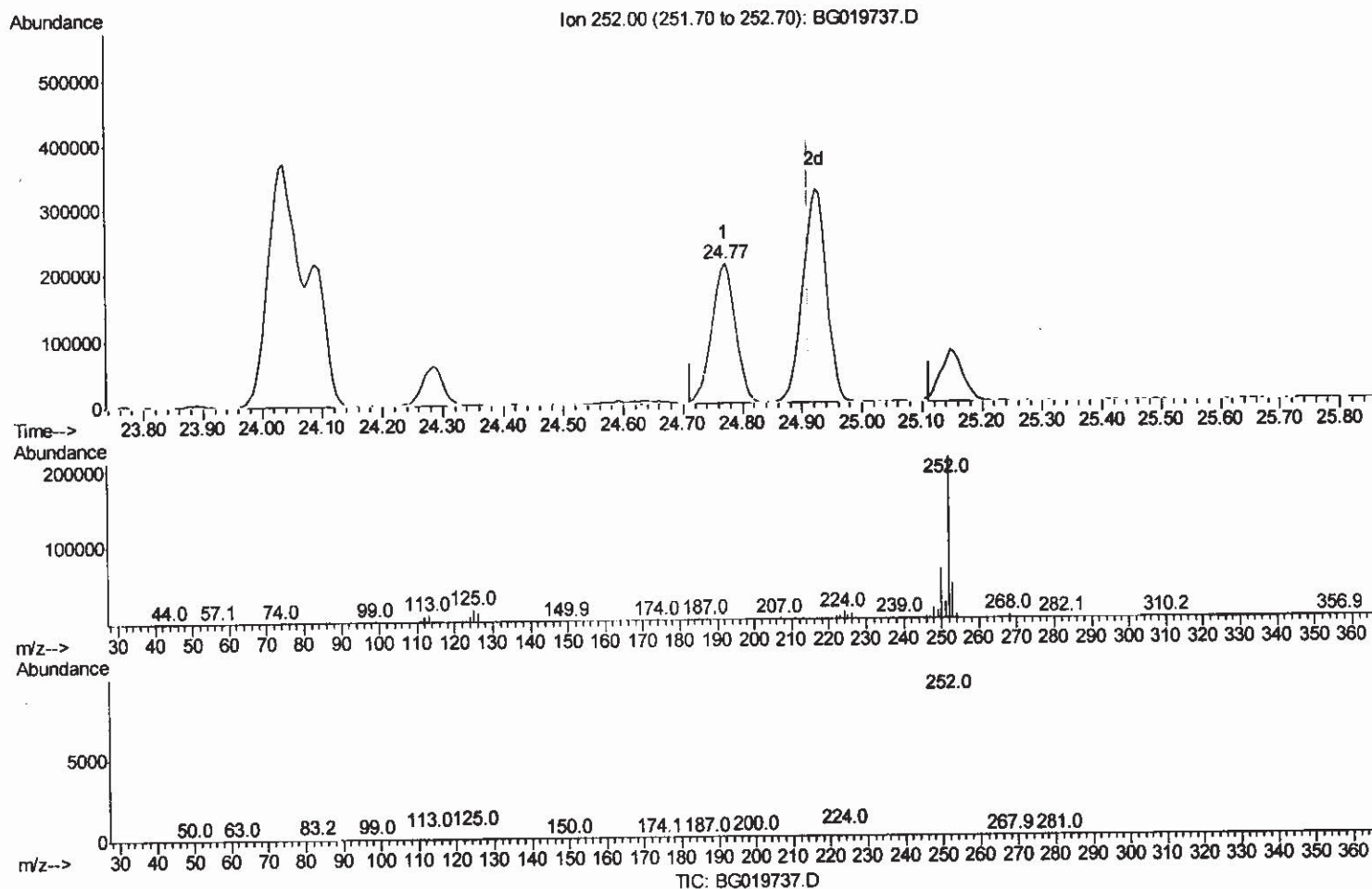
Data Path : Z:\HPCHEM1\BNA G\Data\BG112015\
Data File : BG019737.D
Acq On : 21 Nov 2015 2:34
Operator : UM/NP
Sample : G4428-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
BC7B4

Quant Time: Nov 23 14:04:35 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Nov 23 04:11:25 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

Mmdadoda
11/22/2015 5:51:21 AM



(91) Benzo(a)pyrene (C)

24.770min (-0.141) 30.80ng/ul

response 541223

Ion	Exp%	Act%
252.00	100	100
253.00	21.10	21.76
125.00	6.70	7.66
0.00	0.00	0.00

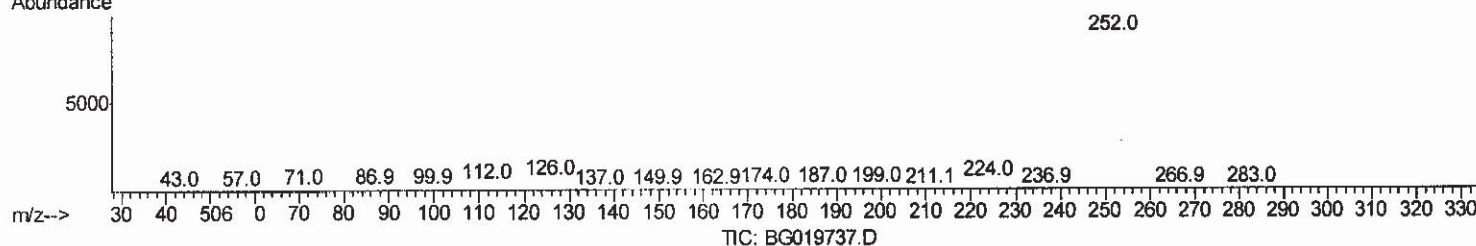
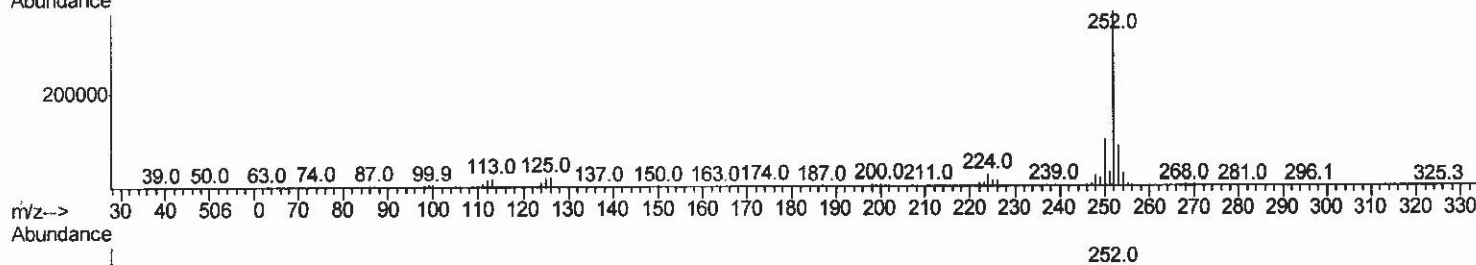
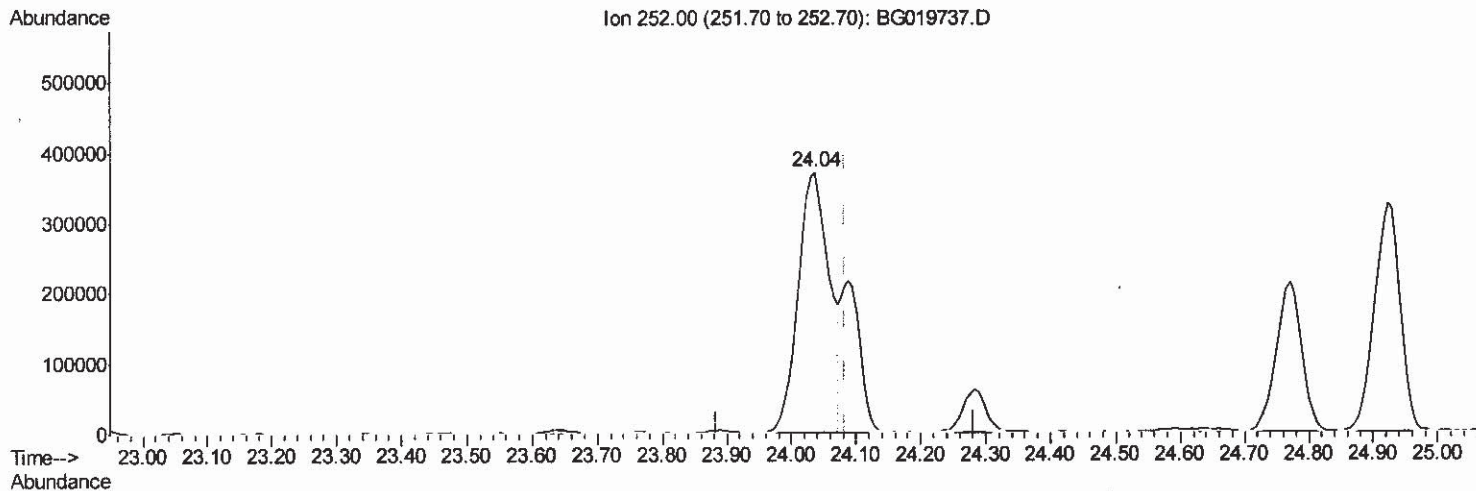
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(89) Benzo(k)fluoranthene

24.036min (-0.047) 69.97ng/ul

response 1232088

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	23.14
125.00	5.50	5.86
0.00	0.00	0.00

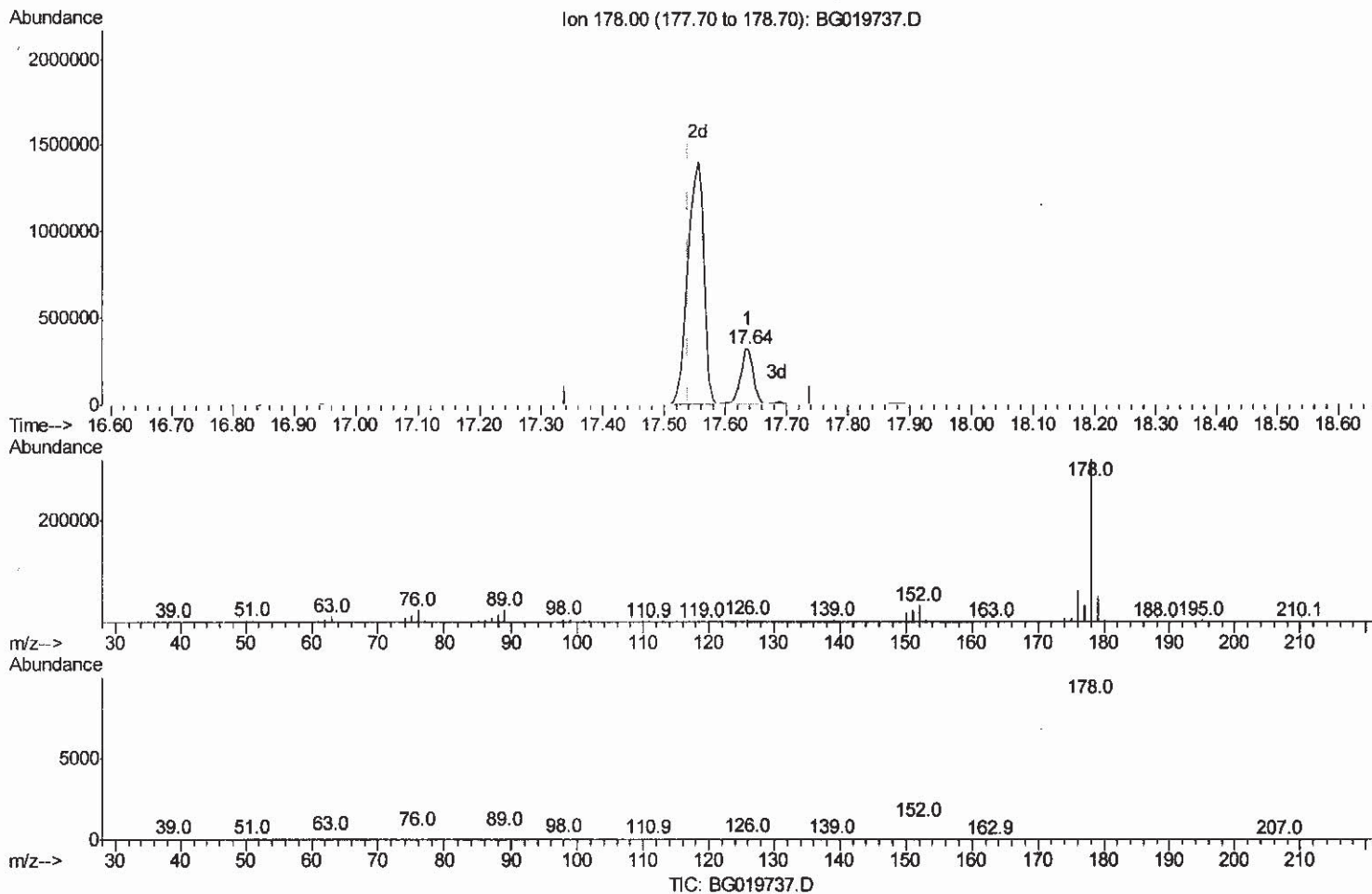
Data Path : Z:\HPCHEM1\BNA G\Data\BG112015\
Data File : BG019737.D
Acq On : 21 Nov 2015 2:34
Operator : UM/NP
Sample : G4428-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
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11/22/2015 5:51:21 AM



(70) Phenanthrene

17.638min (+0.100) 39.45ng/ul

response 481698

Ion	Exp%	Act%
178.00	100	100
179.00	15.20	15.97
176.00	20.70	19.28
0.00	0.00	0.00

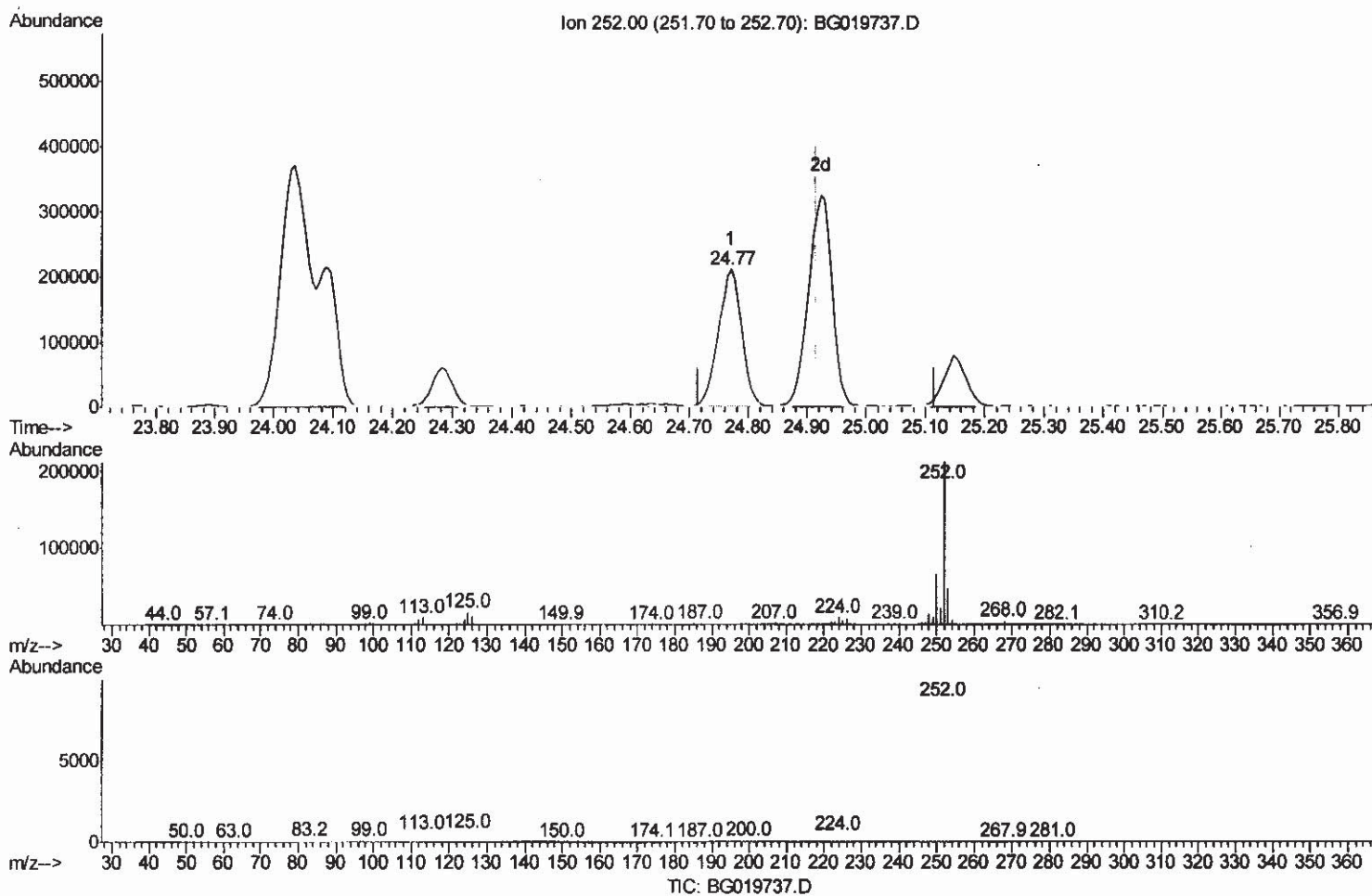
Data Path : Z:\HPCHEM1\BNA G\Data\BG112015\
 Data File : BG019737.D
 Acq On : 21 Nov 2015 2:34
 Operator : UM/NP
 Sample : G4428-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 BC7B4

Quant Time: Nov 22 05:20:58 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Nov 21 01:06:32 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/22/2015 5:51:21 AM



(91) Benzo(a)pyrene (C)

24.770min (-0.145) 33.49ng/ul m

response 588431

Ion	Exp%	Act%
252.00	100	100
253.00	21.10	21.76
125.00	6.70	7.66
0.00	0.00	0.00

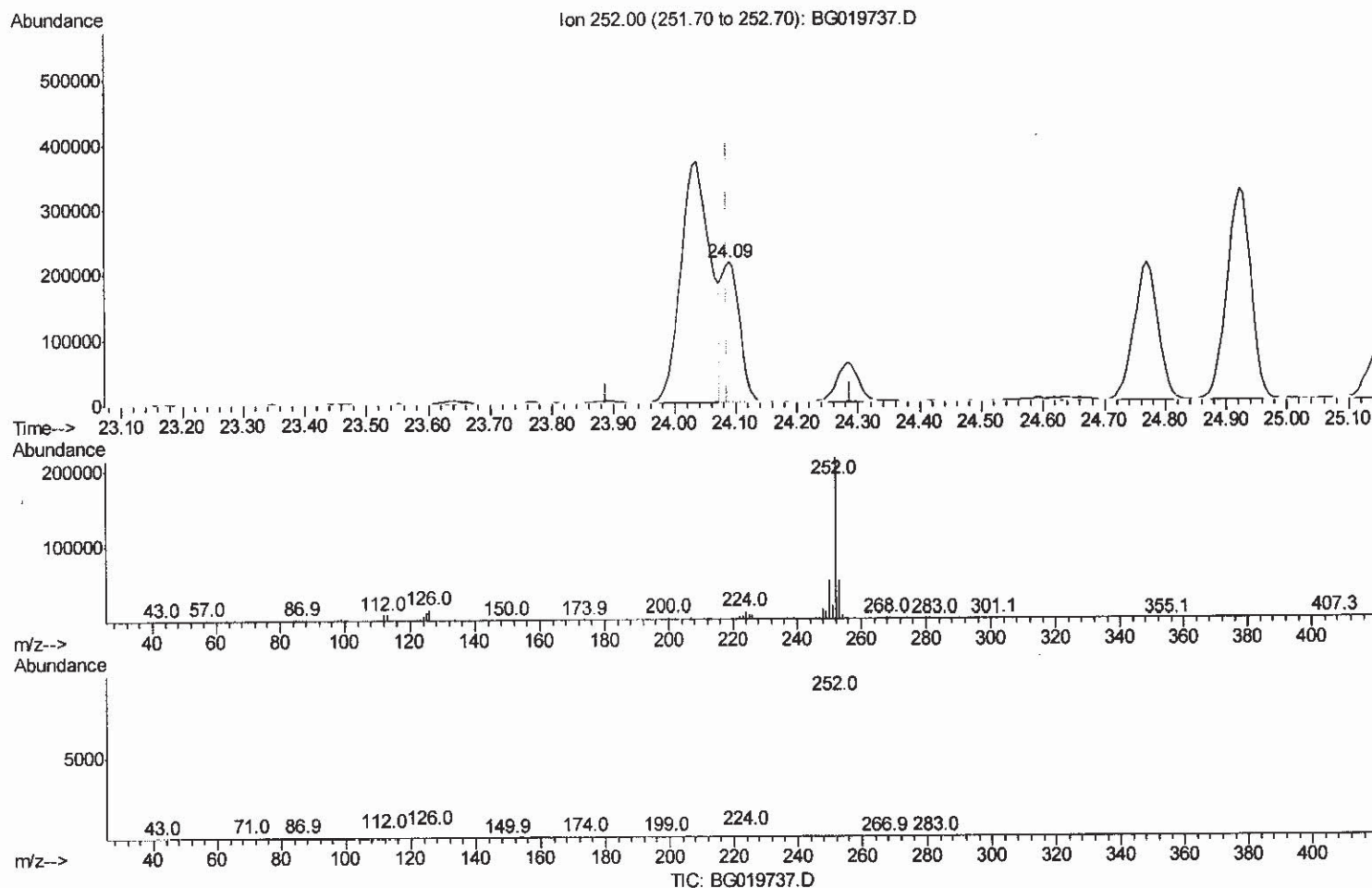
Data Path : Z:\HPCHEM1\BNA G\Data\BG112015\
Data File : BG019737.D
Acq On : 21 Nov 2015 2:34
Operator : UM/NP
Sample : G4428-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
BC7B4

Quant Time: Nov 22 05:20:58 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 21 01:06:32 2015
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Manual Integrations
APPROVED

Mmdadoda
11/22/2015 5:51:21 AM



(89) Benzo(k)fluoranthene

24.089min (+0.002) 25.25ng/ul m

response 444694

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	23.88
125.00	5.50	5.37
0.00	0.00	0.00

U.M.
11/21/15

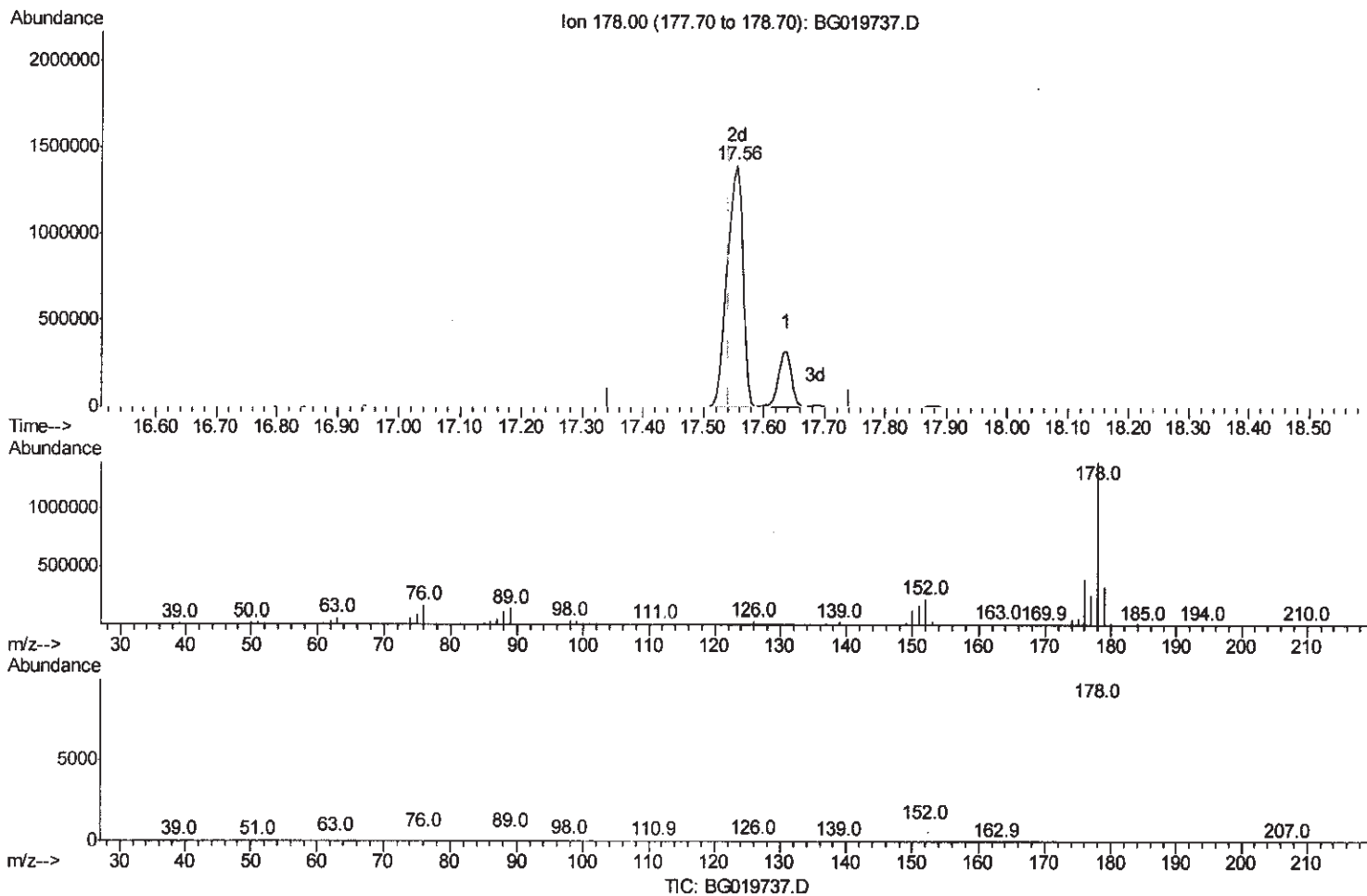
Data Path : Z:\HPCHEM1\BNA G\Data\BG112015\
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Acq On : 21 Nov 2015 2:34
Operator : UM/NP
Sample : G4428-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
BC7B4

Quant Time: Nov 22 05:20:58 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 21 01:06:32 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

Mmdadoda
11/22/2015 5:51:21 AM



(70) Phenanthrene

17.555min (+0.013) 209.83ng/ul m

response 2562348

Ion	Exp%	Act%
178.00	100	100
179.00	15.20	23.44#
176.00	20.70	28.38#
0.00	0.00	0.00

U.M.
11/21/15

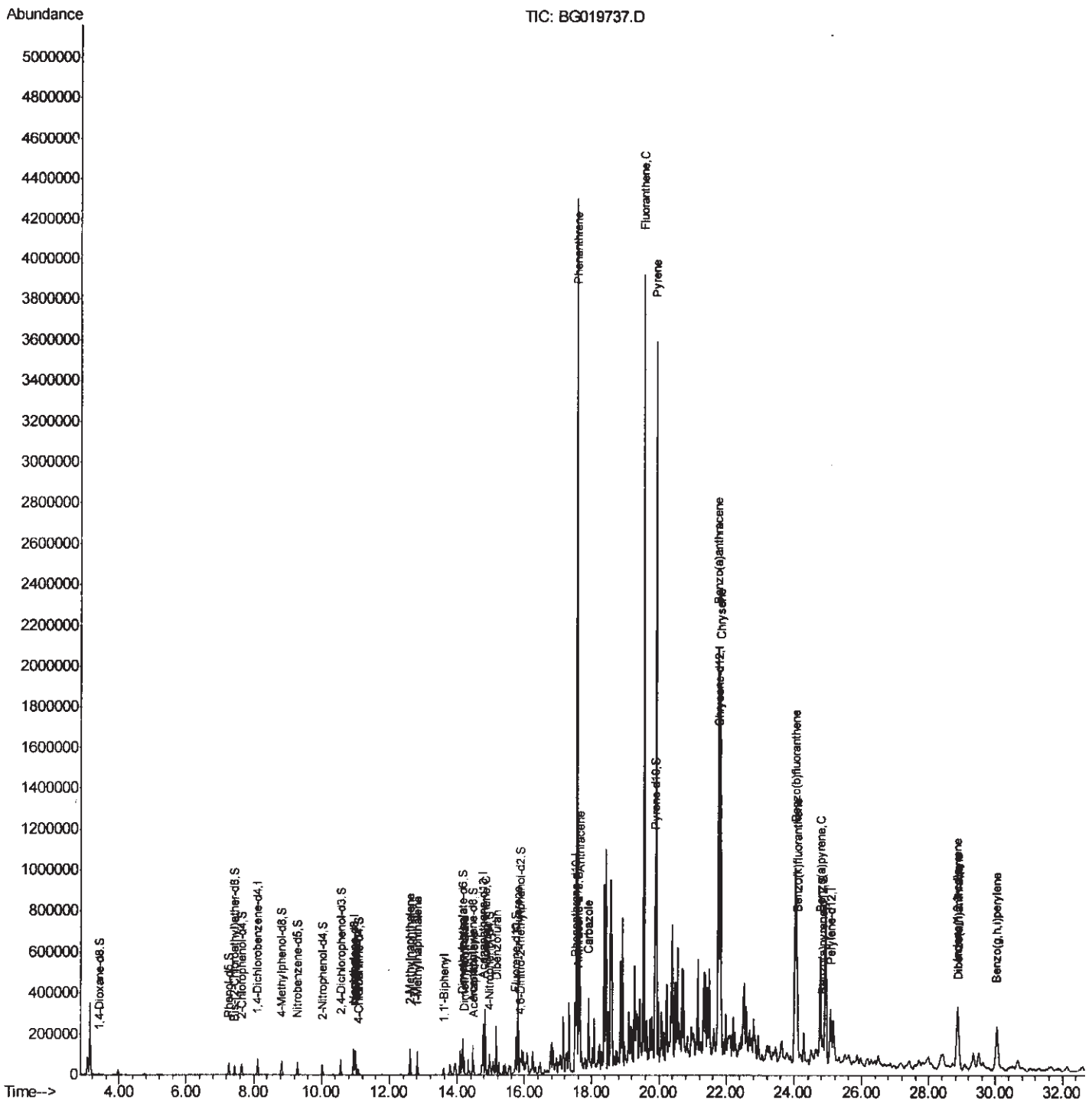
Data Path : Z:\HPCHEM1\BNA G\Data\BG112015\
 Data File : BG019737.D
 Acq On : 21 Nov 2015 2:34
 Operator : UM/NP
 Sample : G4428-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
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Quant Time: Nov 22 05:20:58 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M
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ALS Vial : 15 Sample Multiplier: 1

Instrument :
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Manual Integrations
APPROVED

Mmdadoda
11/22/2015 5:51:21 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\Data\BG112015\
 Data File : BG019737.D
 Acq On : 21 Nov 2015 2:34
 Operator : UM/NP
 Sample : G4428-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 BC7B4

Quant Time: Nov 22 05:20:58 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111615.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Nov 21 01:06:32 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/22/2015 5:51:21 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	21516	20.00	ng/ul	0.00
18) Naphthalene-d8	10.95	136	98069	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.76	164	82968	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.50	188	228175	20.00	ng/ul	0.00
78) Chrysene-d12	21.77	240	306069	20.00	ng/ul	0.00
86) Perylene-d12	25.08	264	296216	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.40	96	1635	3.24	ng/uL	0.00
5) Phenol-d5	7.26	99	35687	16.19	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.43	67	23321	16.15	ng/ul	0.00
9) 2-Chlorophenol-d4	7.64	132	23271	16.46	ng/ul	0.00
13) 4-Methylphenol-d8	8.82	113	26254	14.39	ng/ul	0.00
19) Nitrobenzene-d5	9.29	128	12199	15.15	ng/ul	0.00
22) 2-Nitrophenol-d4	10.02	143	14636	16.15	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.56	165	28887	14.74	ng/ul	0.00
29) 4-Chloroaniline-d4	11.07	131	17531	9.42	ng/ul	0.00
44) Dimethylphthalate-d6	14.15	166	108173	14.42	ng/ul	0.00
47) Acenaphthylene-d8	14.45	160	95255	11.71	ng/ul	0.00
52) 4-Nitrophenol-d4	14.95	143	13609	11.51	ng/ul	0.00
58) Fluorene-d10	15.74	176	76268	11.36	ng/ul	-0.01
63) 4,6-Dinitro-2-methylphenol	15.86	200	16664	11.31	ng/ul	0.00
71) Anthracene-d10	17.60	188	119443	10.78	ng/ul	0.00
79) Pyrene-d10	19.88	212	137939	9.89	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.85	264	126462	8.18	ng/ul	0.00

Target Compounds

Ovalue

28) Naphthalene	11.00	128	98100	18.52	ng/ul	99
34) 2-Methylnaphthalene	12.60	142	56807	13.45	ng/ul	97
35) 1-Methylnaphthalene	12.81	142	49120	11.67	ng/ul	94
41) 1,1'-Biphenyl	13.59	154	17853	2.89	ng/ul	95
45) Dimethylphthalate	14.20	163	54642	7.34	ng/ul	96
48) Acenaphthylene	14.48	152	11204	1.38	ng/ul#	70
50) Acenaphthene	14.82	153	126648	22.79	ng/ul	96
54) Dibenzofuran	15.15	168	122156	14.99	ng/ul	99
59) Fluorene	15.80	166	194838	27.35	ng/ul	96
70) Phenanthrene	17.56	178	2562348m	209.83	ng/ul	99
72) Anthracene	17.64	178	484165	39.32	ng/ul	99
75) Carbazole	17.90	167	203934	20.63	ng/ul	97
77) Fluoranthene	19.55	202	2361518	151.74	ng/ul#	90
80) Pyrene	19.92	202	2248038	125.76	ng/ul#	94
83) Benzo(a)anthracene	21.76	228	1273607	68.65	ng/ul	95
85) Chrysene	21.83	228	1297696	74.30	ng/ul	96
88) Benzo(b)fluoranthene	24.04	252	1232088	67.50	ng/ul	97
89) Benzo(k)fluoranthene	24.09	252	444694m	25.25	ng/ul	97
91) Benzo(a)pyrene	24.77	252	588431m	33.49	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.86	276	534965	27.20	ng/ul	94
93) Dibenzo(a,h)anthracene	28.89	278	154095	9.53	ng/ul#	89
94) Benzo(a,h,i)perylene	30.04	276	443119	27.16	ng/ul	97

6.24
 11/21/15