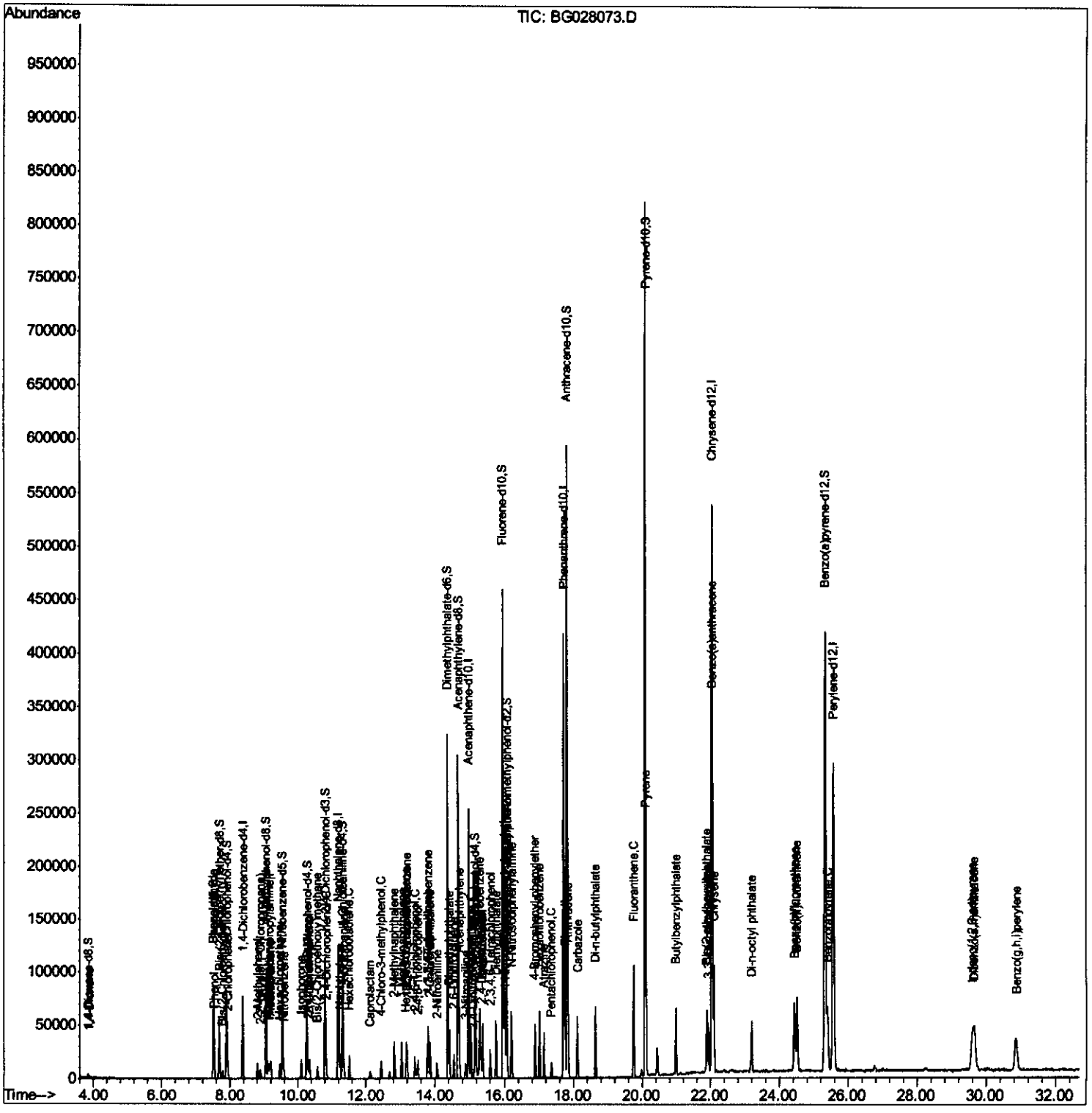
Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 18:01:16 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



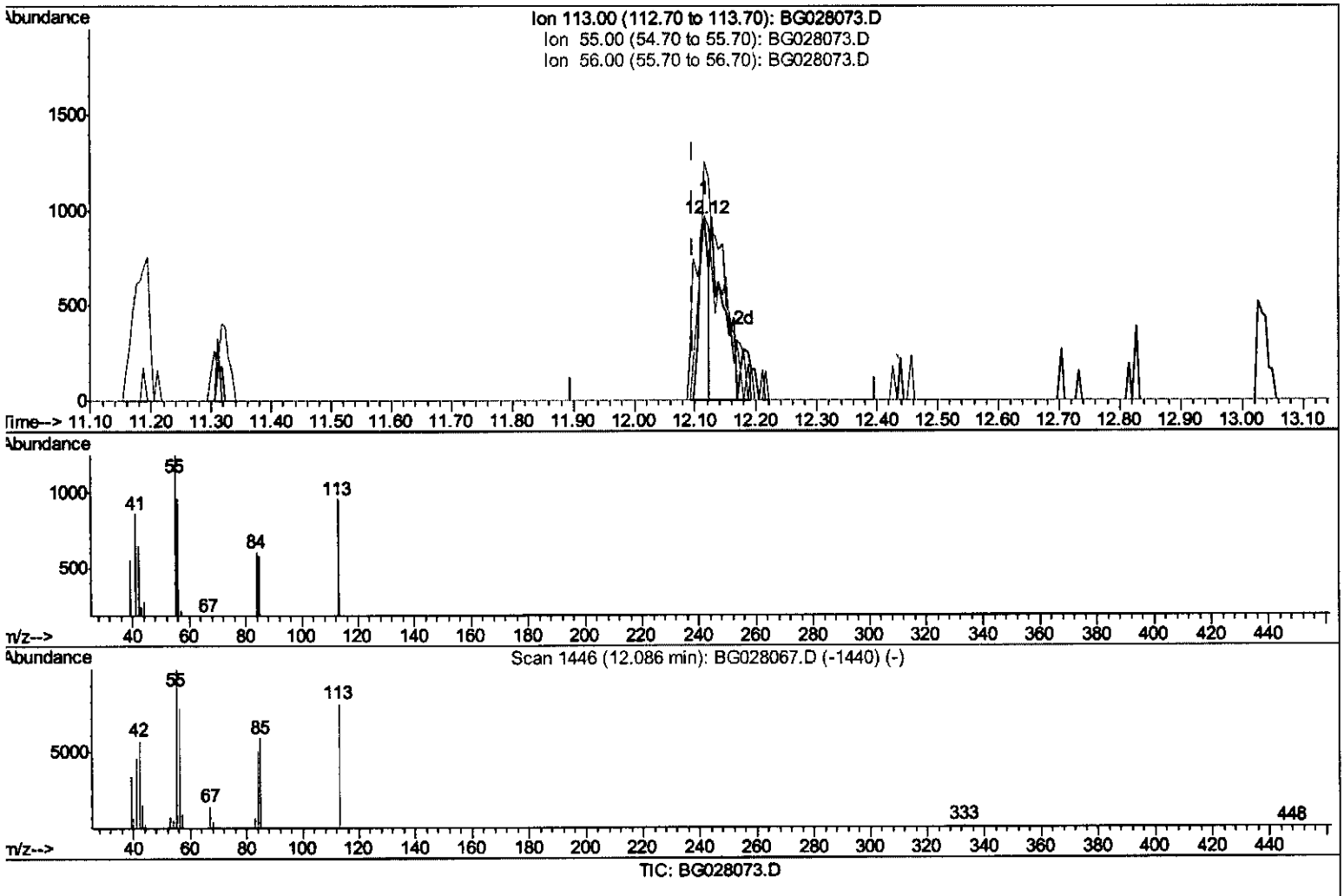
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



TIC: BG028073.D

(32) Caprolactam

12.116min (+0.019) 1.53ng/ul

response 997

Ion	Exp%	Act%
113.00	100	100
55.00	164.60	131.00#
56.00	115.90	101.04
0.00	0.00	0.00

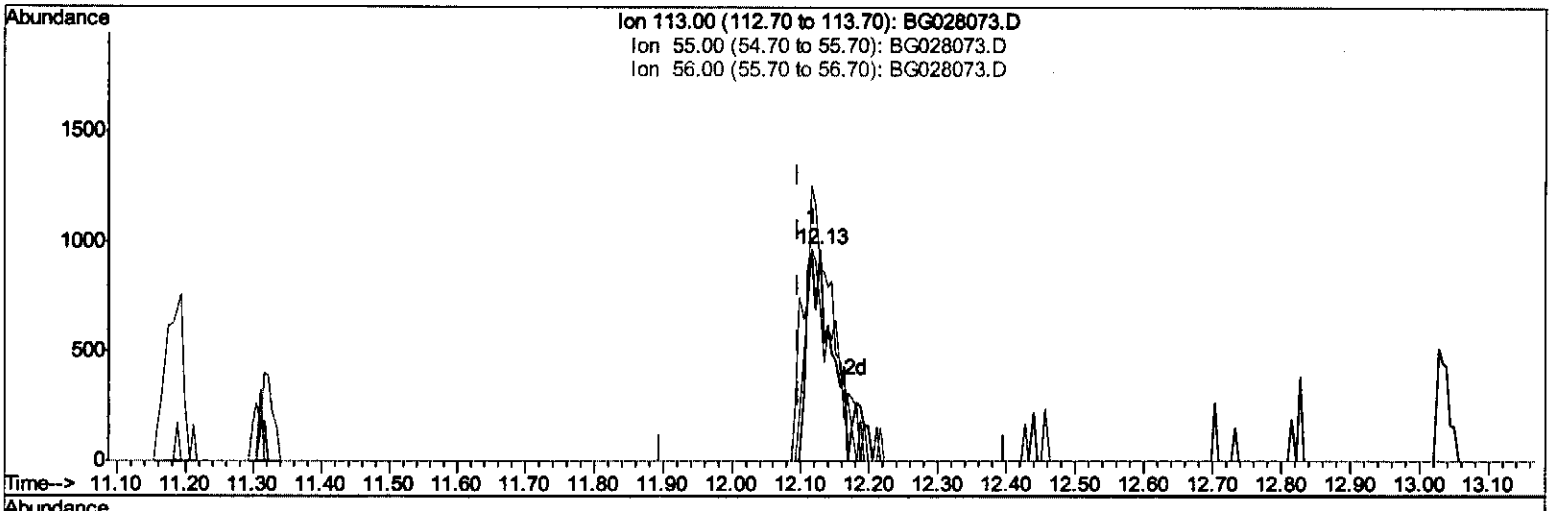
Quantitation Report (Qedit)

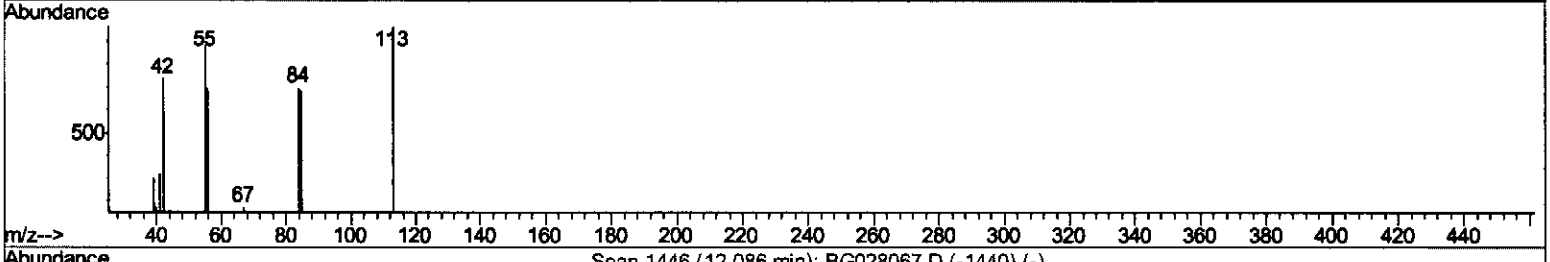
Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

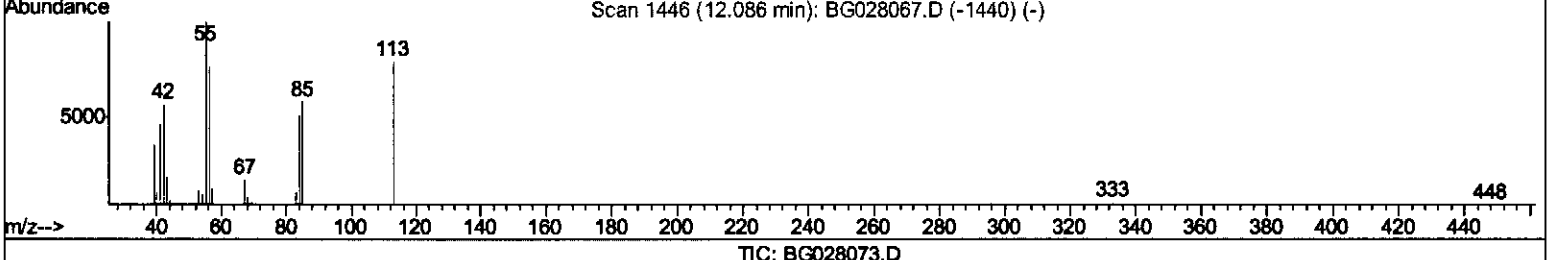
Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM







TIC: BG028073.D

(32) Caprolactam

12.127min (+0.031) 3.61ng/ul m 08/4/17

response 2358

Ion	Exp%	Act%
113.00	100	100
55.00	164.60	91.40#
56.00	115.90	71.71#
0.00	0.00	0.00

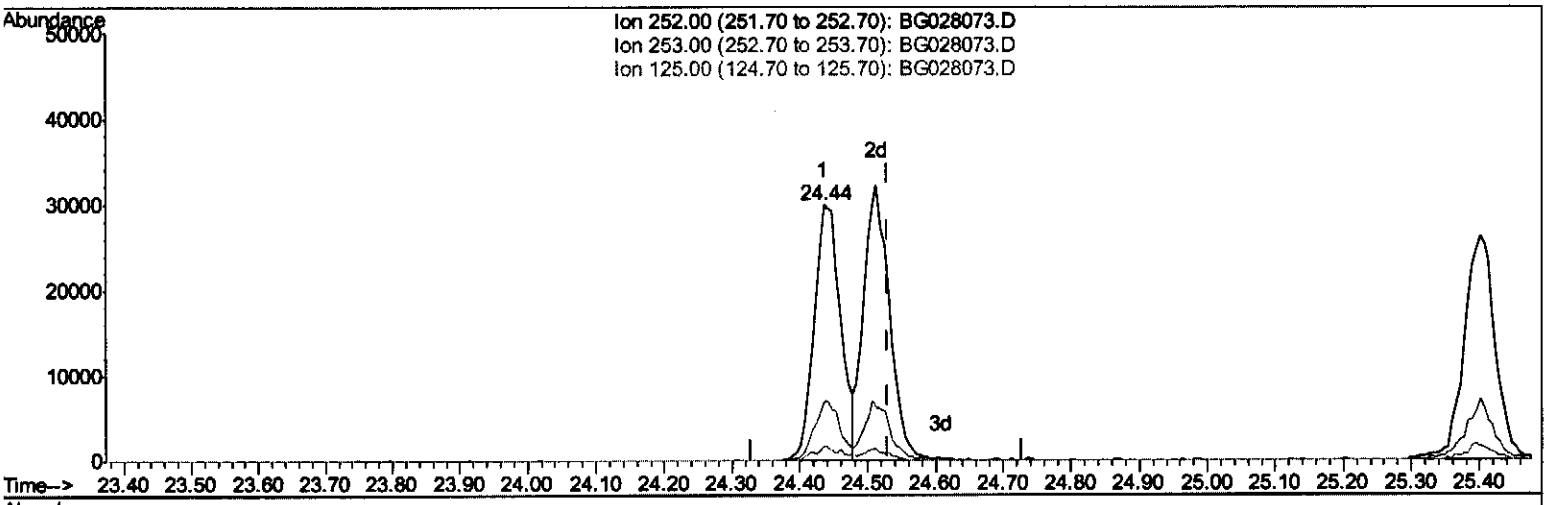
Quantitation Report (Qedit)

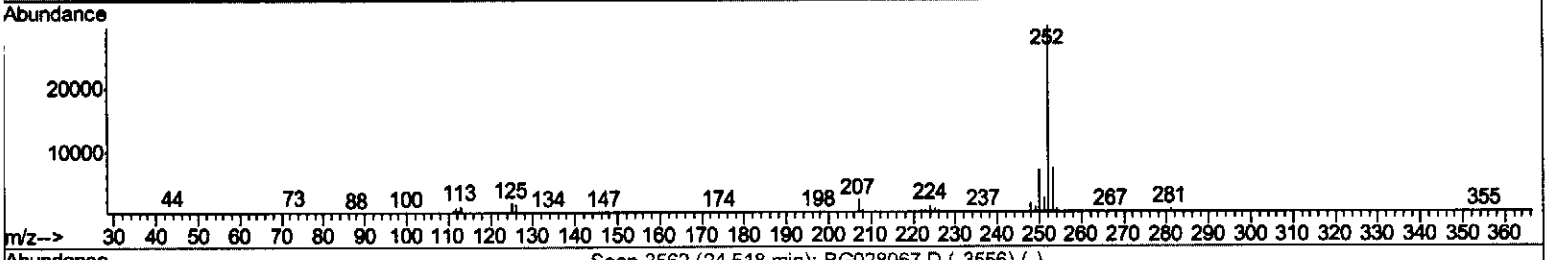
Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

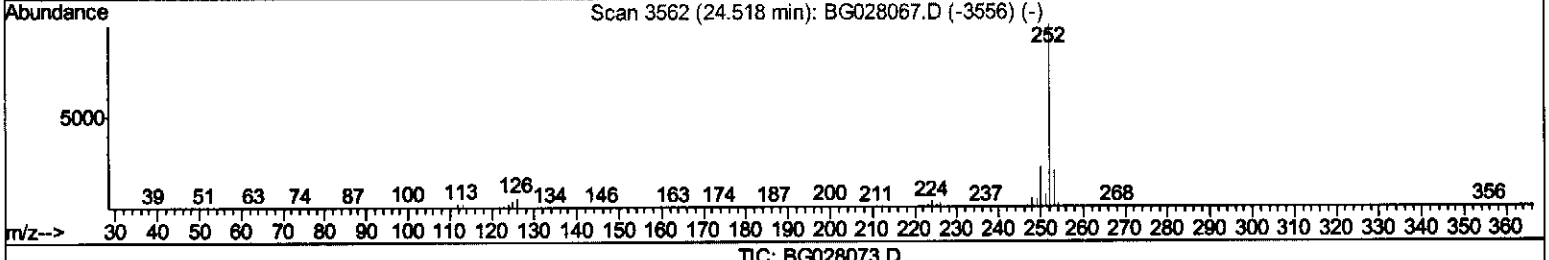
Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM







TIC: BG028073.D

(89) Benzo(k)fluoranthene

24.436min (-0.093) 3.76ng/ul

response 81785

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	23.59
125.00	6.70	5.70
0.00	0.00	0.00

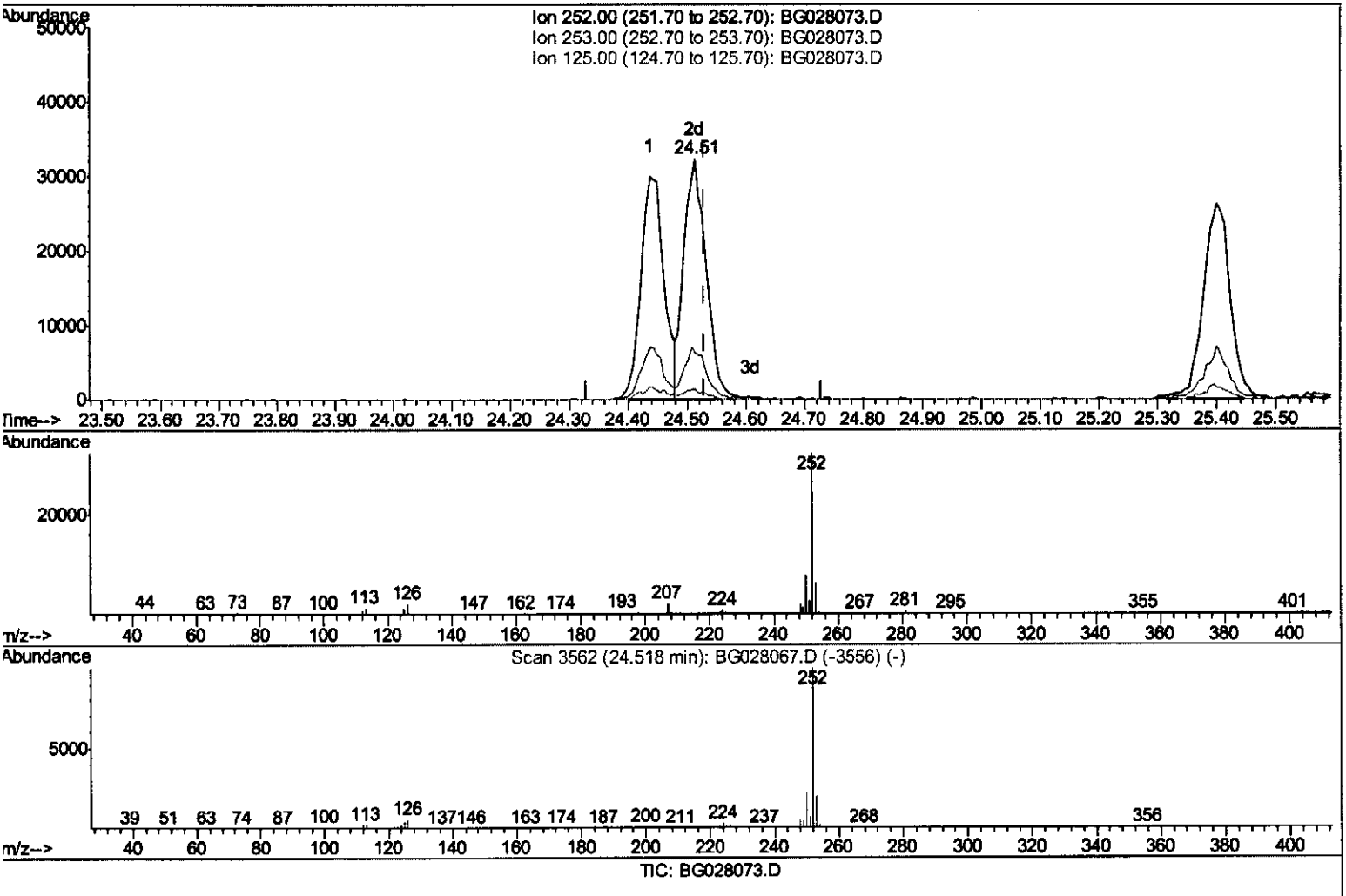
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



TIC: BG028073.D

(89) Benzo(k)fluoranthene

24.513min (-0.016) 3.90ng/ul m 08/4/17

response 84772

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	19.66
125.00	6.70	3.90#
0.00	0.00	0.00

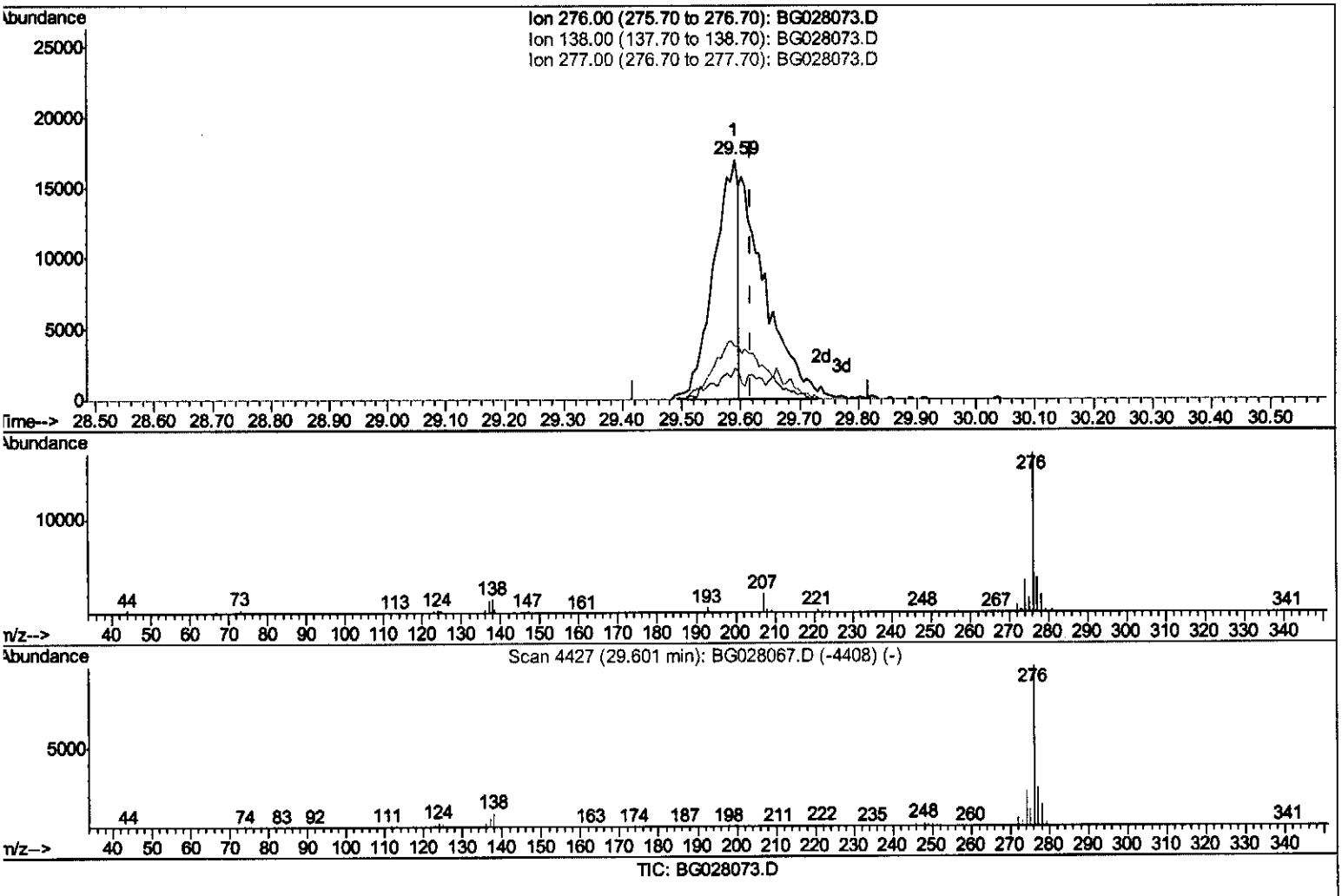
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



TIC: BG028073.D

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

29.589min (-0.028) 1.85ng/ul

response 48199

Ion	Exp%	Act%
276.00	100	100
138.00	13.60	13.18
277.00	23.60	22.31
0.00	0.00	0.00

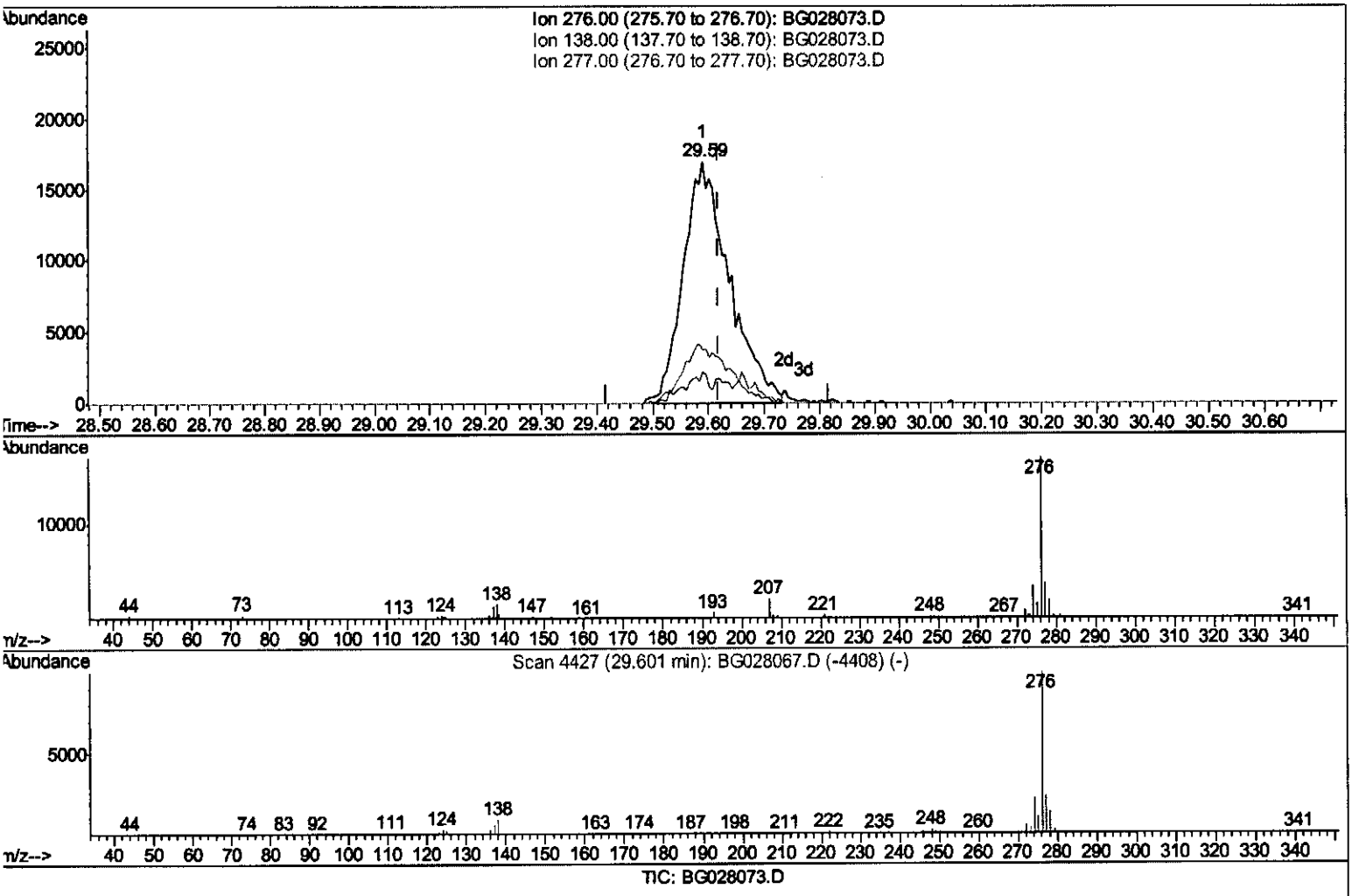
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



TIC: BG028073.D

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

29.589min (-0.028) 3.71ng/ul m

response 96618

Ion	Exp%	Act%
276.00	100	100
138.00	13.60	9.64#
277.00	23.60	22.31
0.00	0.00	0.00

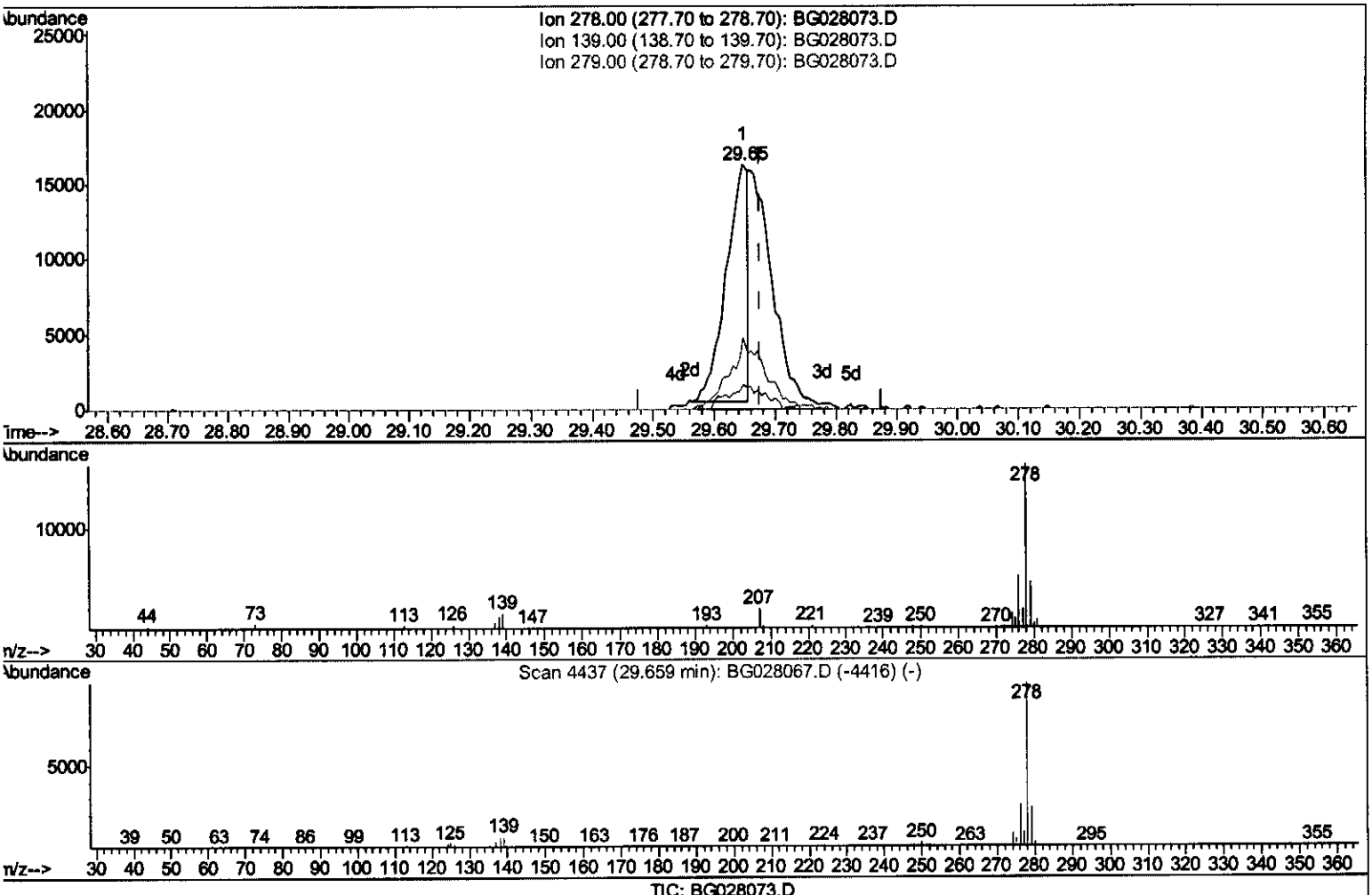
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



(93) Dibenzo(a,h)anthracene

29.648min (-0.028) 1.69ng/ul

response 37800

Ion	Exp%	Act%
278.00	100	100
139.00	11.20	9.92
279.00	23.90	28.92#
0.00	0.00	0.00

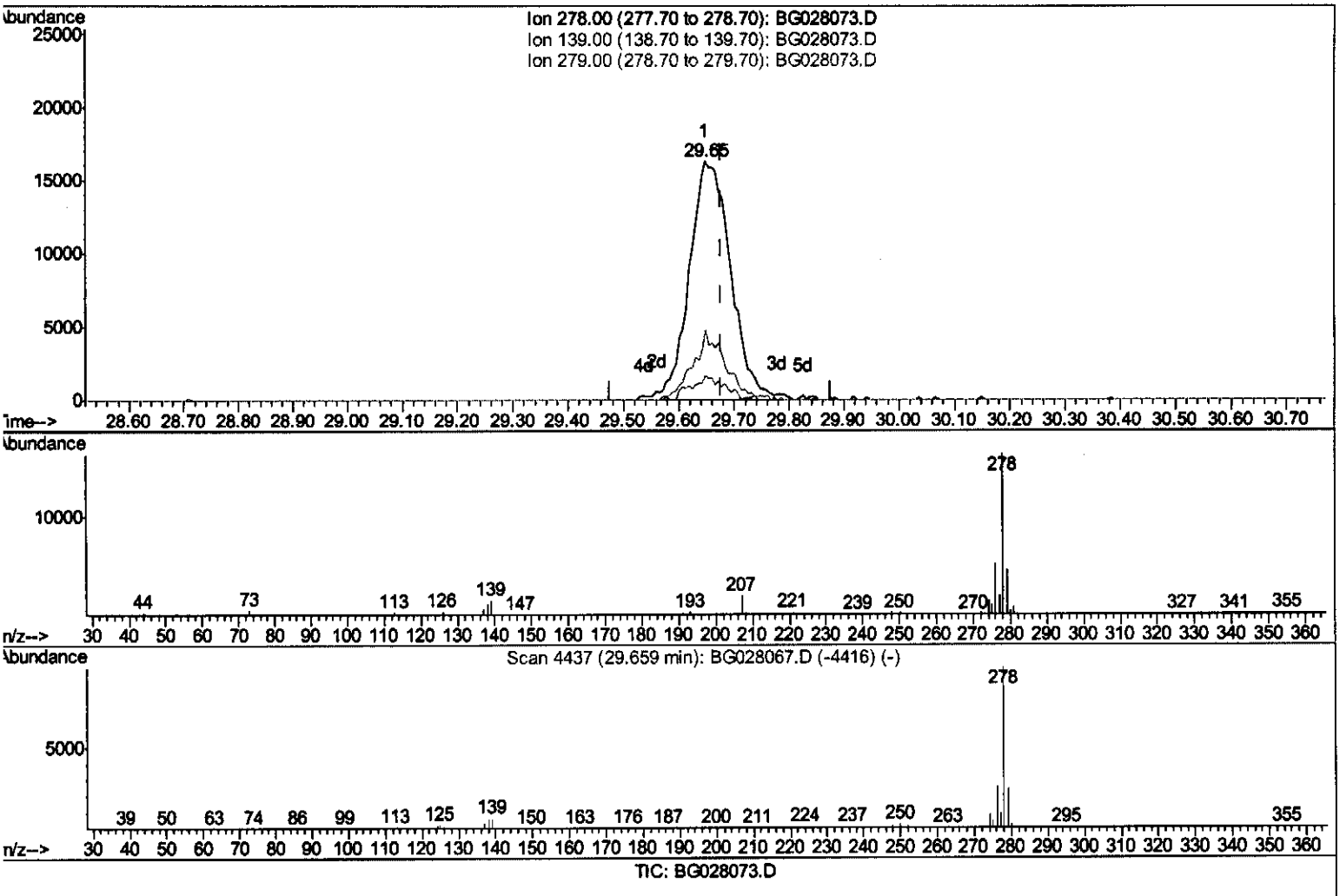
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



(93) Dibenzo(a,h)anthracene

29.648min (-0.028) 3.76ng/ul m

response 83929

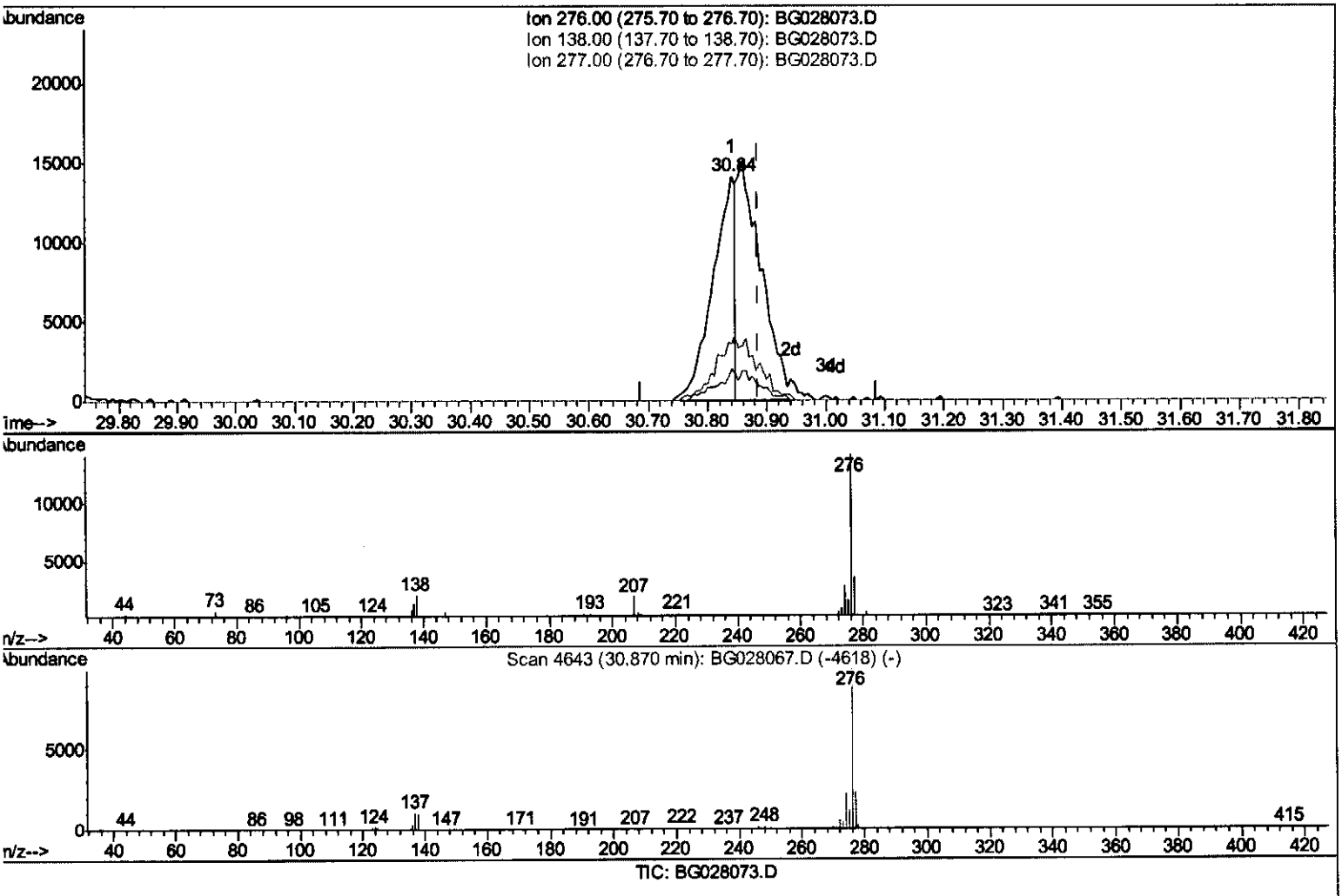
Ion	Exp%	Act%
278.00	100	100
139.00	11.20	9.92
279.00	23.90	28.92#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



TIC: BG028073.D

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

30.841min (-0.046) 1.74ng/ul

response 37656

Ion	Exp%	Act%
276.00	100	100
138.00	14.00	14.17
277.00	23.80	24.98
0.00	0.00	0.00

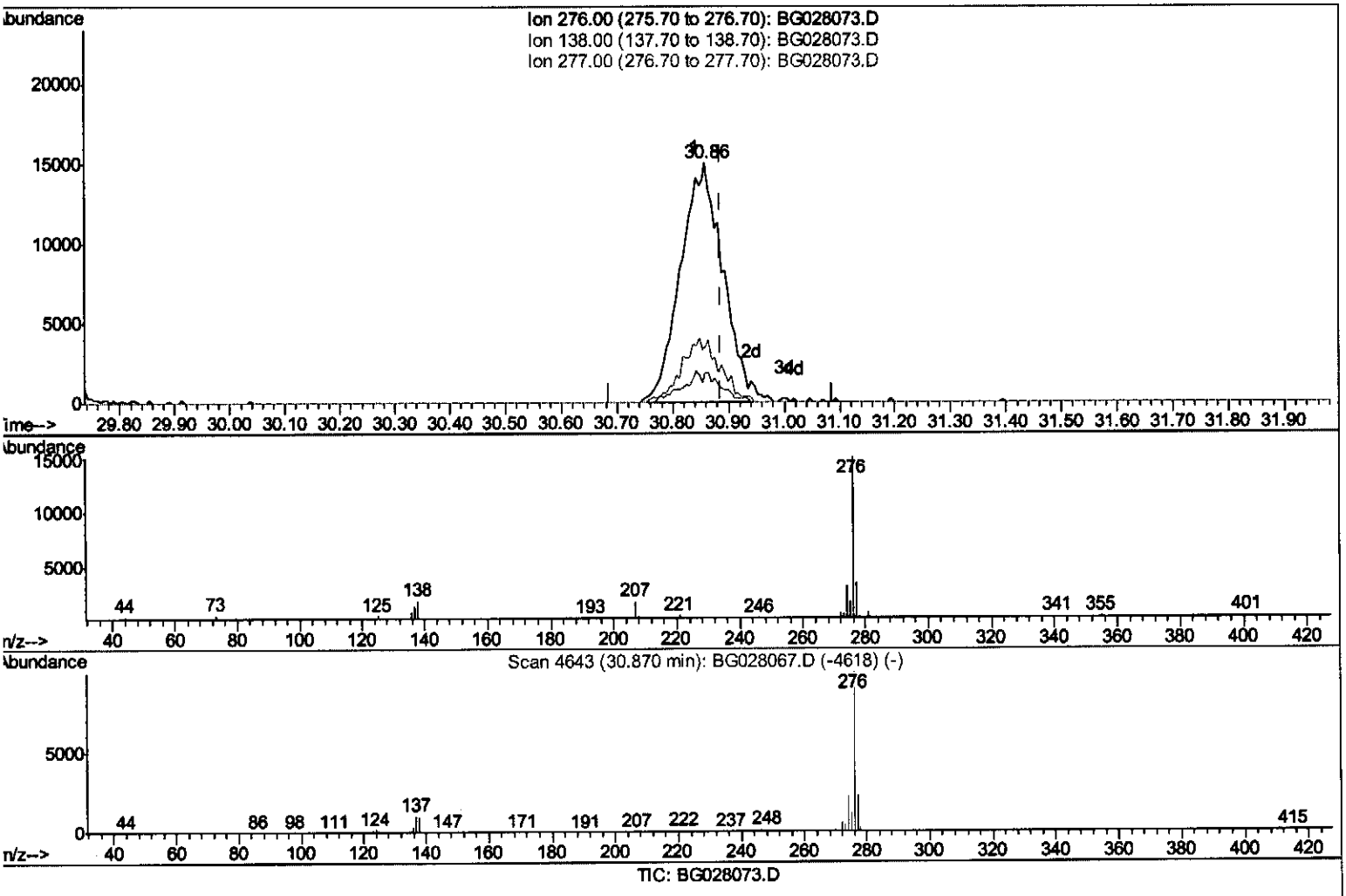
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 17:58:17 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM



TIC: BG028073.D

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

30.858min (-0.028) 3.75ng/ul m

response 80948

Ion	Exp%	Act%
276.00	100	100
138.00	14.00	12.18
277.00	23.80	22.78
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 18:01:16 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.37	152	26726	20.00	ng/ul	0.00
18) Naphthalene-d8	11.19	136	121821	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.97	164	95914	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.72	188	294381	20.00	ng/ul	0.00
78) Chrysene-d12	22.06	240	397574	20.00	ng/ul	0.00
86) Perylene-d12	25.57	264	400852	20.00	ng/ul	-0.01
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.85	96	2574	6.24	ng/uL	0.00
5) Phenol-d5	7.51	99	48445	23.99	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.68	67	26309	26.06	ng/ul	0.00
9) 2-Chlorophenol-d4	7.90	132	44571	26.19	ng/ul	0.00
13) 4-Methylphenol-d8	9.05	113	44317	24.59	ng/ul	-0.01
19) Nitrobenzene-d5	9.53	128	22047	25.89	ng/ul	0.00
22) 2-Nitrophenol-d4	10.26	143	28591	26.37	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.79	165	51769	24.25	ng/ul	0.00
29) 4-Chloroaniline-d4	11.32	131	63788	29.63	ng/ul	0.00
44) Dimethylphthalate-d6	14.36	166	247832	28.55	ng/ul	0.00
47) Acenaphthylene-d8	14.67	160	253103	26.95	ng/ul	0.00
52) 4-Nitrophenol-d4	15.15	143	32202	24.69	ng/ul	0.00
58) Fluorene-d10	15.96	176	222857	27.87	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	16.07	200	49373	23.55	ng/ul	0.00
71) Anthracene-d10	17.82	188	396882	28.15	ng/ul	0.00
79) Pyrene-d10	20.09	212	500428	28.34	ng/ul	0.00
90) Benzo(a)pyrene-d12	25.33	264	494103	26.80	ng/ul	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.88	88	811	1.834	ng/uL#	93
4) Benzaldehyde	7.51	77	3330	3.333	ng/ul#	79
6) Phenol	7.54	94	6869	3.508	ng/ul#	87
8) Bis(2-Chloroethyl)ether	7.77	93	5203	3.754	ng/ul	94
10) 2-Chlorophenol	7.93	128	6326	4.035	ng/ul	99
11) 2-Methylphenol	8.80	108	5036	3.299	ng/ul	98
12) 2,2'-oxybis(1-Chloropropan	8.89	45	6269	3.446	ng/ul#	93
14) Acetophenone	9.19	105	9487	3.624	ng/ul	94
15) N-Nitroso-di-n-propylamine	9.16	70	4381	3.565	ng/ul#	96
16) 4-Methylphenol	9.13	108	5993	3.538	ng/ul#	67
17) Hexachloroethane	9.45	117	2274	3.626	ng/ul#	84
20) Nitrobenzene	9.58	77	6625	3.623	ng/ul#	95
21) Isophorone	10.09	82	13348	3.820	ng/ul#	80
23) 2-Nitrophenol	10.29	139	4231	4.049	ng/ul#	80
24) 2,4-Dimethylphenol	10.33	107	7958	3.807	ng/ul	88
25) Bis(2-Chloroethoxy)methane	10.57	93	7234	3.564	ng/ul	97
27) 2,4-Dichlorophenol	10.83	162	8246	4.054	ng/ul#	92
28) Naphthalene	11.23	128	21707	3.948	ng/ul#	93
30) 4-Chloroaniline	11.34	127	5499	2.684	ng/ul	97
31) Hexachlorobutadiene	11.51	225	6536	3.714	ng/ul#	83
32) Caprolactam	12.13	113	2358m	3.612	ng/ul	>
33) 4-Chloro-3-methylphenol	12.44	107	7114	3.590	ng/ul	99
34) 2-Methylnaphthalene	12.81	142	18970	3.998	ng/ul	99

JDL 08/4/17

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 18:01:16 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
35) 1-Methylnaphthalene	13.03	142	17994	3.911 ng/ul#	94
37) 1,2,4,5-Tetrachlorobenzene	13.17	216	14687	3.975 ng/ul	86
38) Hexachlorocyclopentadiene	13.16	237	5358	2.473 ng/ul#	84
39) 2,4,6-Trichlorophenol	13.41	196	7028	3.187 ng/ul	89
40) 2,4,5-Trichlorophenol	13.49	196	7235	3.088 ng/ul	93
41) 1,1'-Biphenyl	13.80	154	27268	3.911 ng/ul	93
42) 2-Chloronaphthalene	13.85	162	21243	3.778 ng/ul	97
43) 2-Nitroaniline	14.05	65	4863	3.670 ng/ul	94
45) Dimethylphthalate	14.41	163	33803	4.251 ng/ul#	96
46) 2,6-Dinitrotoluene	14.54	165	5745	3.599 ng/ul#	77
48) Acenaphthylene	14.69	152	35449	3.983 ng/ul	97
49) 3-Nitroaniline	14.88	138	4763	3.590 ng/ul	96
50) Acenaphthene	15.04	153	24258	3.980 ng/ul	96
51) 2,4-Dinitrophenol	15.09	184	1786	1.753 ng/ul#	86
53) 4-Nitrophenol	15.16	109	3969	3.743 ng/ul	95
54) Dibenzofuran	15.36	168	37678	4.066 ng/ul	97
55) 2,4-Dinitrotoluene	15.32	165	9829	4.123 ng/ul	88
56) 2,3,4,6-Tetrachlorophenol	15.59	232	8373	3.356 ng/ul#	86
57) Diethylphthalate	15.76	149	32510	3.894 ng/ul#	96
59) Fluorene	16.01	166	32958	4.100 ng/ul	94
60) 4-Chlorophenyl-phenylether	16.00	204	19448	4.050 ng/ul	93
61) 4-Nitroaniline	16.03	138	5682	3.606 ng/ul	97
64) 4,6-Dinitro-2-methylphenol	16.09	198	7633	3.800 ng/ul#	95
65) N-Nitrosodiphenylamine	16.21	169	28711	3.864 ng/ul	91
66) 4-Bromophenyl-phenylether	16.90	248	14424	3.811 ng/ul#	93
67) Hexachlorobenzene	17.02	284	17566	4.081 ng/ul#	91
68) Atrazine	17.15	200	11258	3.175 ng/ul	97
69) Pentachlorophenol	17.37	266	4829	2.149 ng/ul#	90
70) Phenanthrene	17.76	178	59075	4.036 ng/ul	98
72) Anthracene	17.86	178	61127	4.011 ng/ul	96
73) 1,2,3,4-Tetrachlorobenzene	13.78	216	14944	3.640 ng/uL	90
74) Pentachlorobenzene	15.29	250	23090	3.784 ng/uL	95
75) Carbazole	18.12	167	47320	3.792 ng/ul	97
76) Di-n-butylphthalate	18.65	149	51463	3.714 ng/ul	99
77) Fluoranthene	19.76	202	77731	4.156 ng/ul#	95
80) Pyrene	20.12	202	86965	4.214 ng/ul#	95
81) Butylbenzylphthalate	20.99	149	21228	3.462 ng/ul#	83
82) 3,3'-Dichlorobenzidine	21.93	252	23751	3.265 ng/ul	96
83) Benzo(a)anthracene	22.03	228	84969	4.023 ng/ul	96
84) Bis(2-ethylhexyl)phthalate	21.89	149	29131	3.247 ng/ul	99
85) Chrysene	22.10	228	79765	4.129 ng/ul	99
87) Di-n-octyl phthalate	23.20	149	48688	3.082 ng/ul	100
88) Benzo(b)fluoranthene	24.44	252	81785	3.665 ng/ul	97
89) Benzo(k)fluoranthene	24.51	252	84772m	3.897 ng/ul	
91) Benzo(a)pyrene	25.40	252	82268	3.831 ng/ul#	90
92) Indeno(1,2,3-cd)pyrene	29.59	276	96618m	3.708 ng/ul	
93) Dibenzo(a,h)anthracene	29.65	278	83929m	3.755 ng/ul	
94) Benzo(g,h,i)perylene	30.86	276	80948m	3.747 ng/ul	

08/4/17

08/4/17

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG073117\
Data File : BG028073.D
Acq On : 31 Jul 2017 16:45
Operator : SJ/JU
Sample : MDL-S-ML-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 18:01:16 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 31 17:31:12 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-ML-04

Manual Integrations APPROVED
Sohil
8/1/2017 2:55:15 PM

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

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