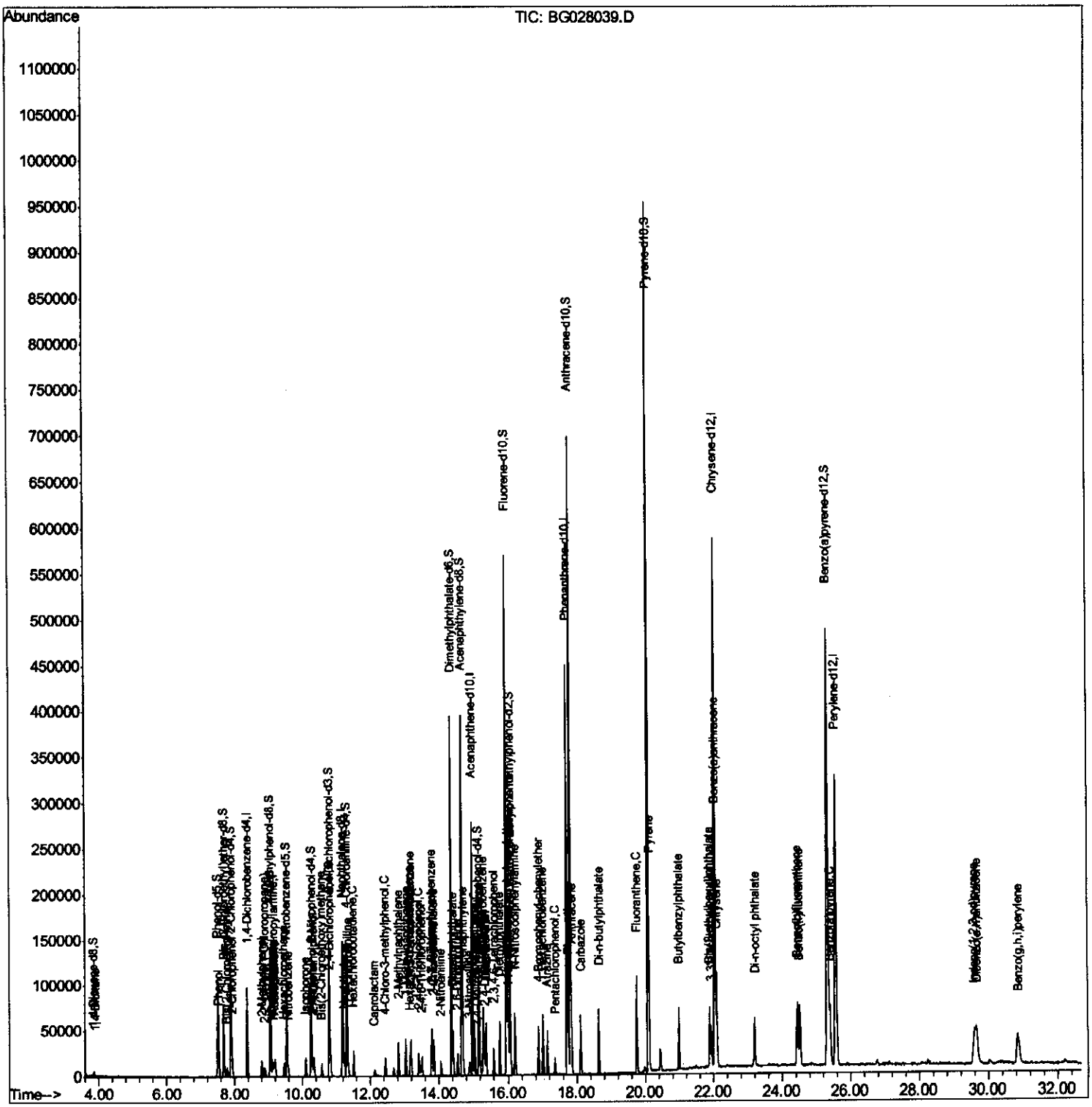
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 28 03:00:06 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM



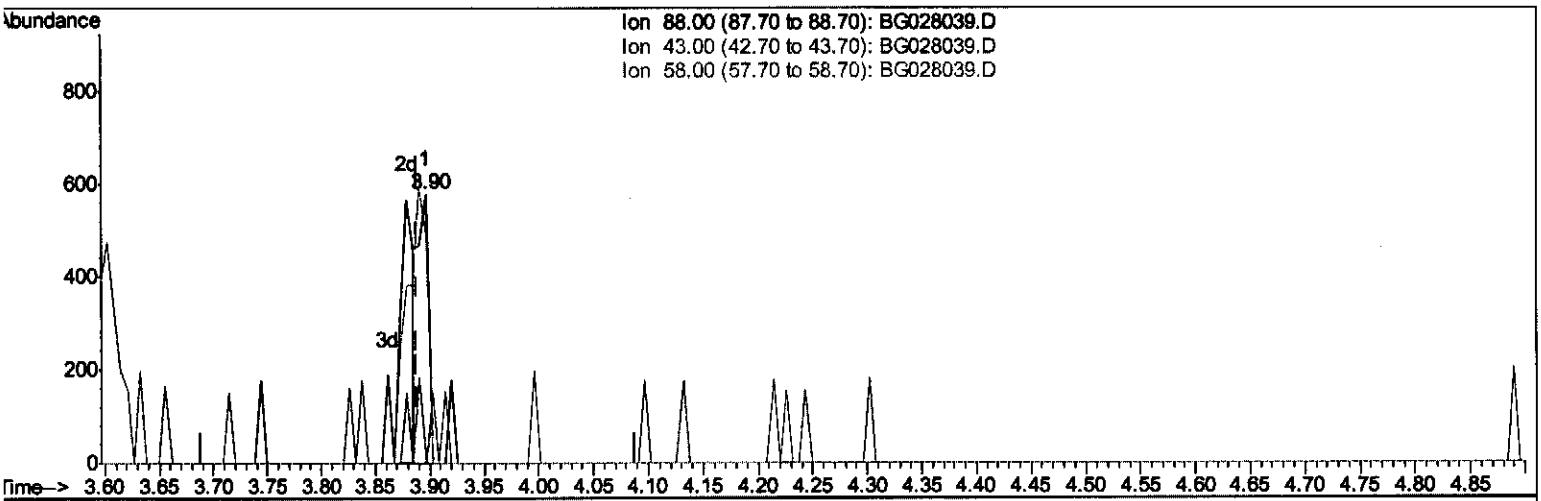
Quantitation Report (Qedit)

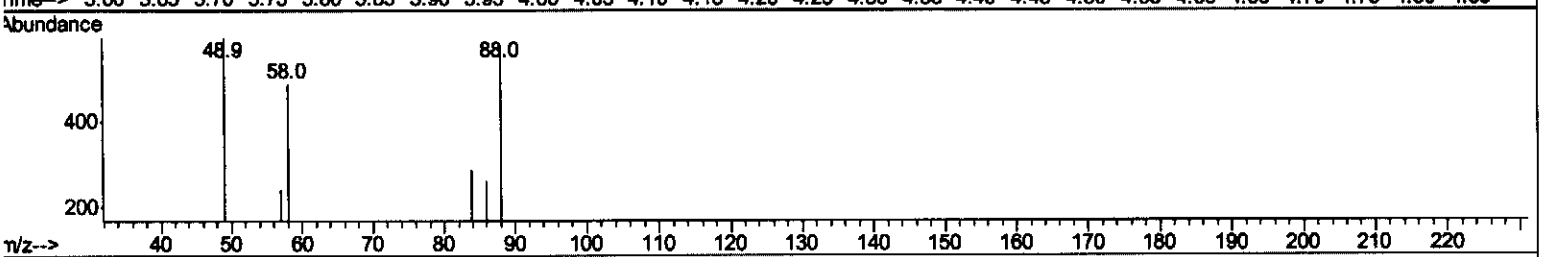
Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

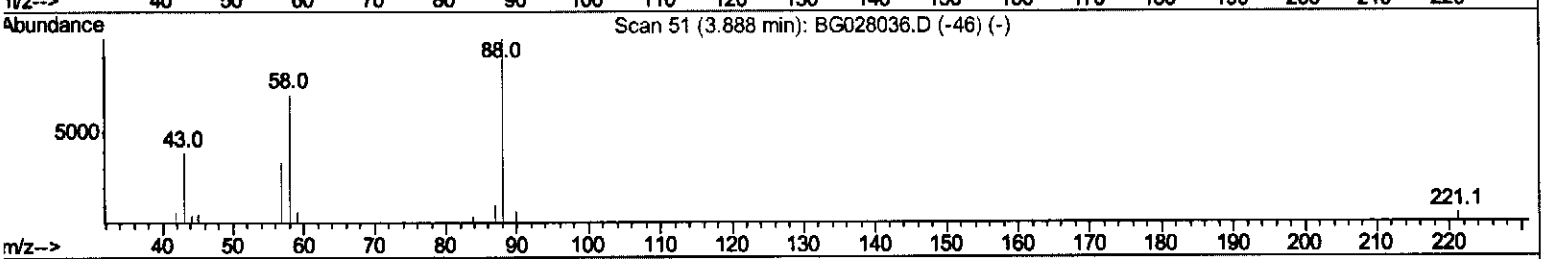
Quant Time: Jul 28 02:14:32 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM







TIC: BG028039.D

(2) 1,4-Dioxane

3.896min (+0.008) 0.71ng/uL

response 369

Ion	Exp%	Act%
88.00	100	100
43.00	36.20	0.00#
58.00	57.40	84.46#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 28 02:14:32 2017
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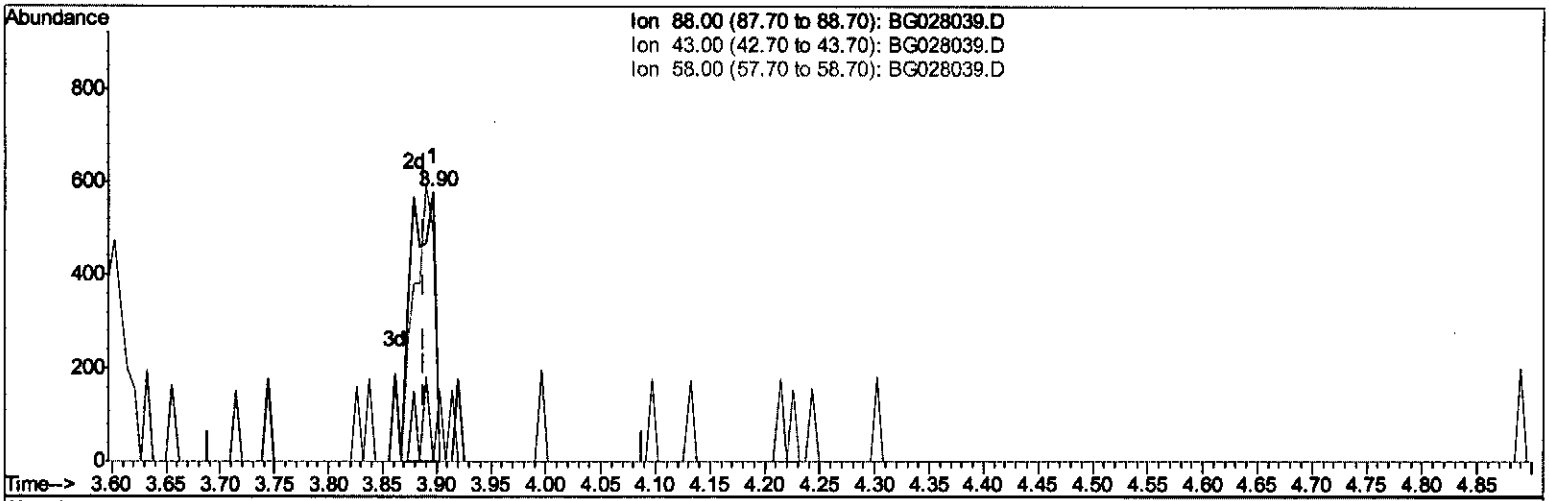
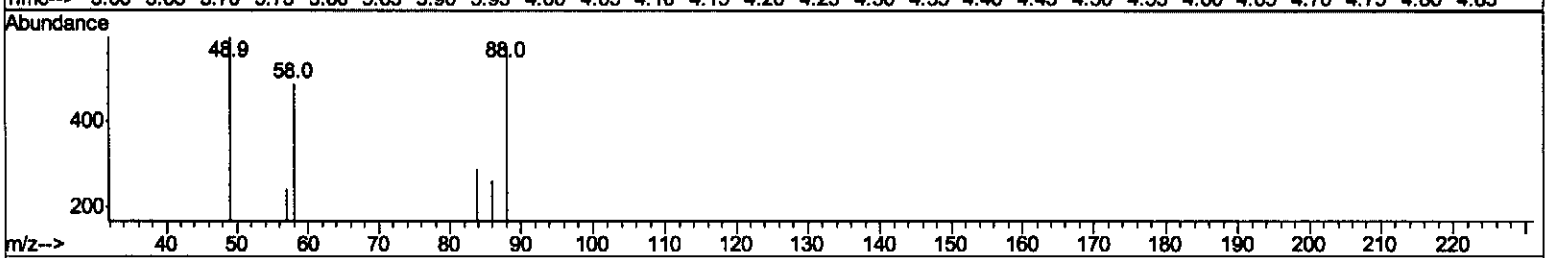
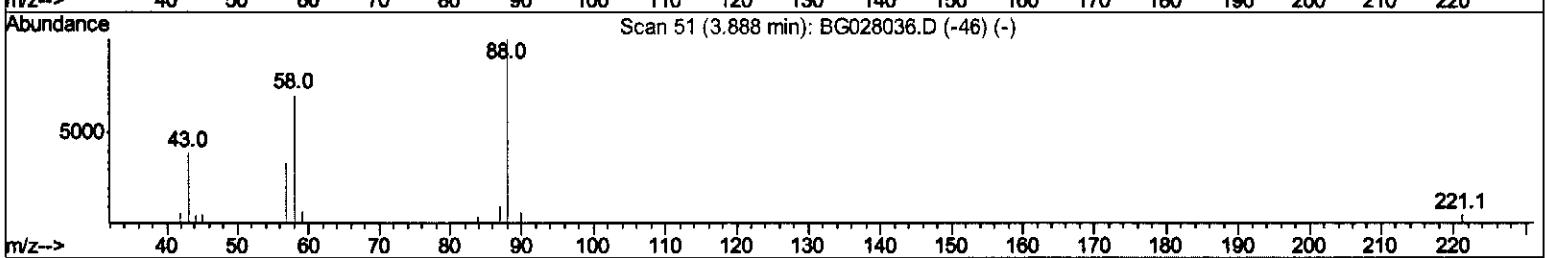
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM







TIC: BG028039.D

(2) 1,4-Dioxane

3.896min (+0.008) 1.63ng/uL m 08/4/17

response 844

Ion	Exp%	Act%
88.00	100	100
43.00	36.20	0.00#
58.00	57.40	84.46#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
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Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 28 02:14:32 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
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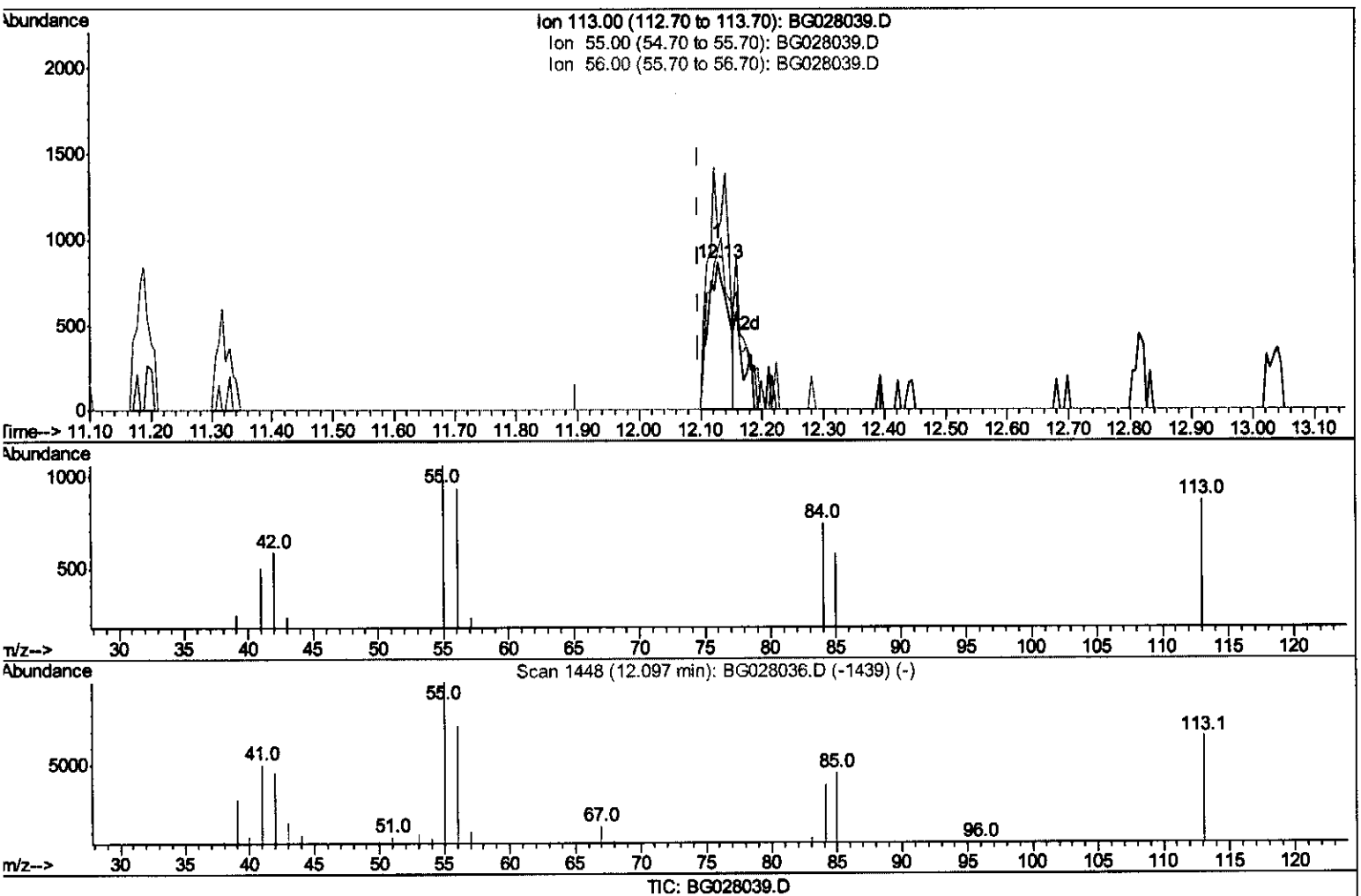
Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM



TIC: BG028039.D

(32) Caprolactam

12.128min (+0.031) 2.60ng/ul

response 1942

Ion	Exp%	Act%
113.00	100	100
55.00	164.60	122.31#
56.00	115.90	107.63
0.00	0.00	0.00

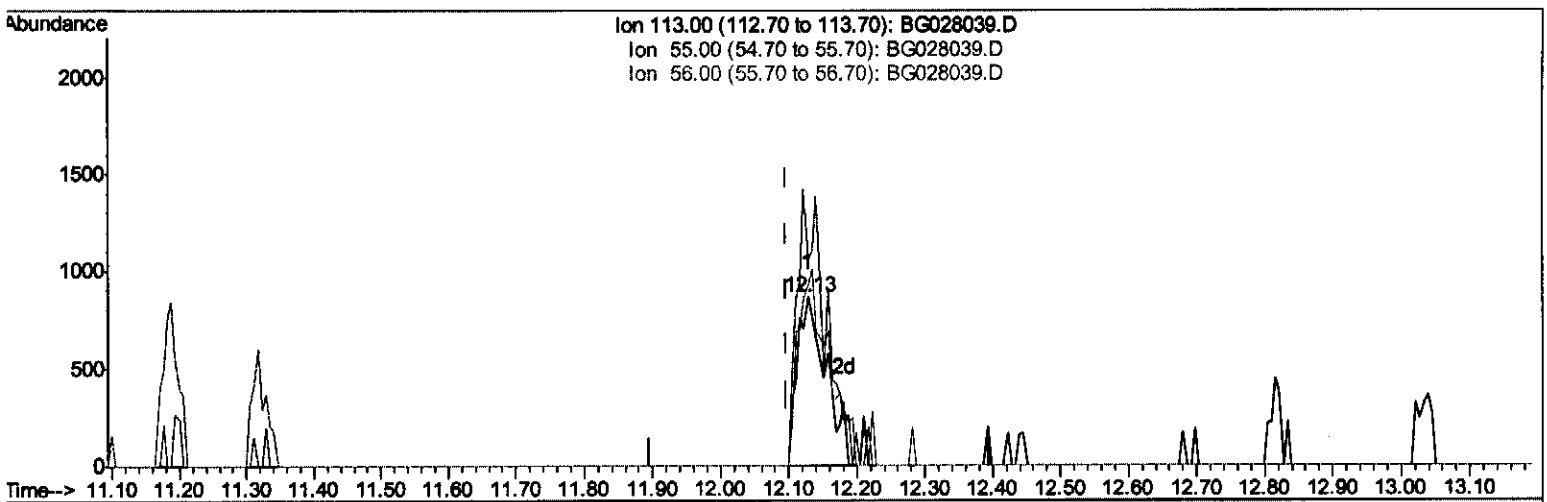
Quantitation Report (Qedit)

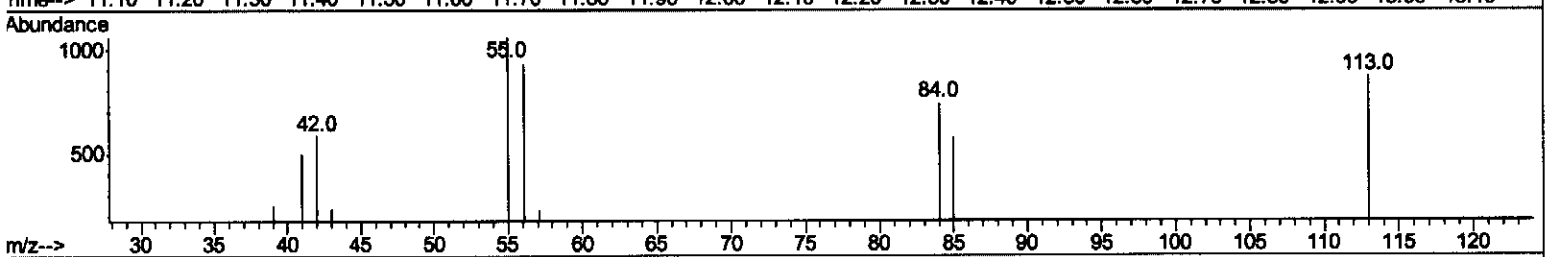
Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

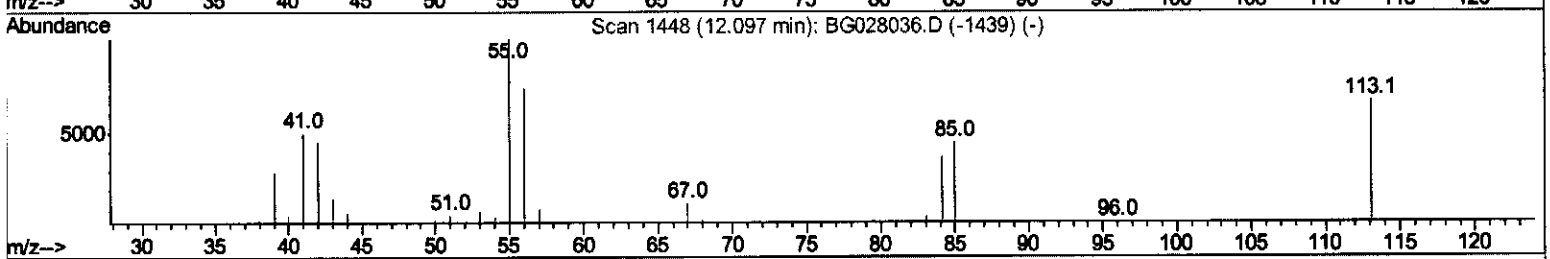
Quant Time: Jul 28 02:14:32 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM







TIC: BG028039.D

(32) Caprolactam

12.128min (+0.031) 3.38ng/ul m

response 2526

Ion	Exp%	Act%
113.00	100	100
55.00	164.60	122.31#
56.00	115.90	107.63
0.00	0.00	0.00

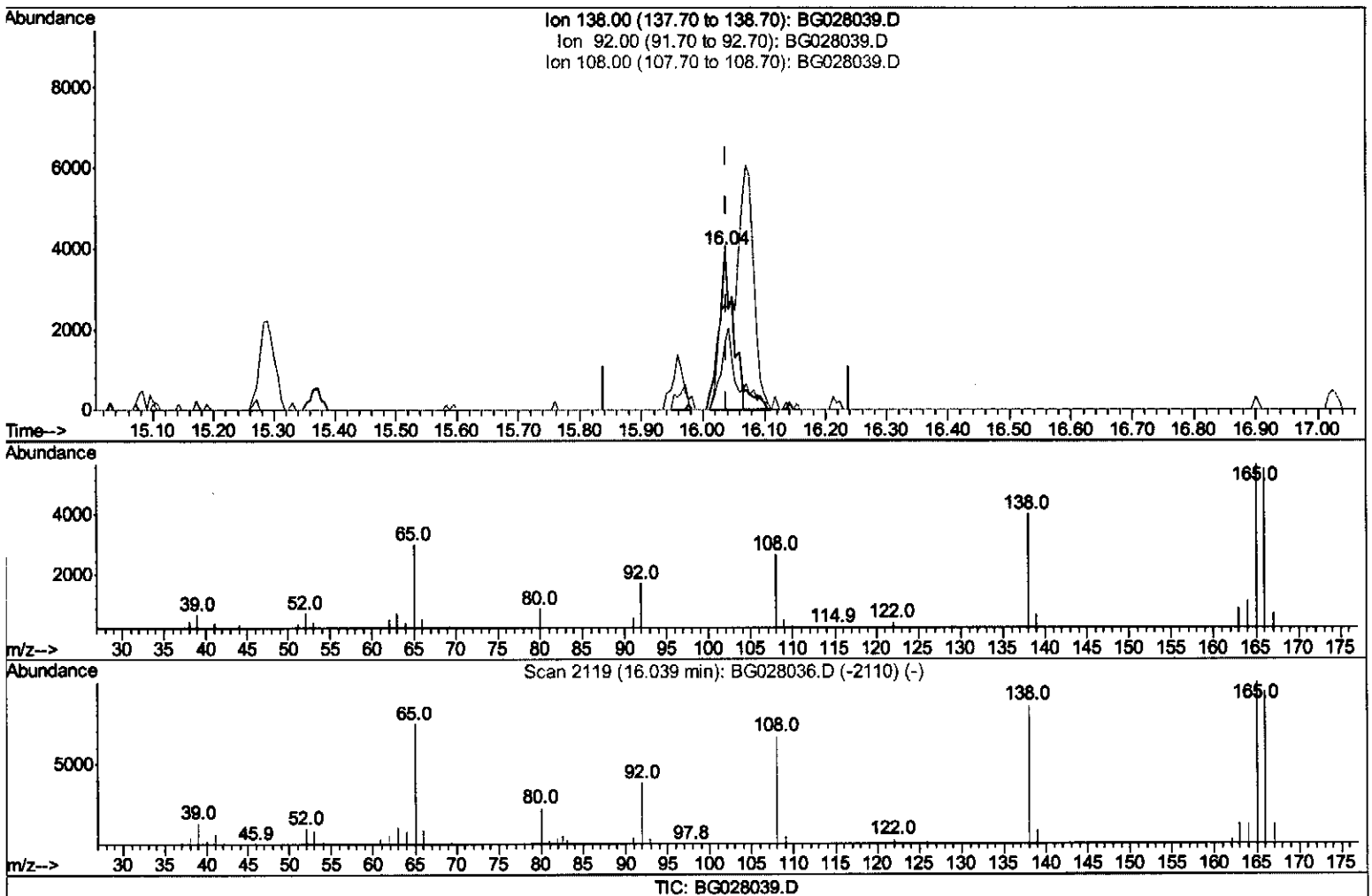
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 28 02:14:32 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM



TIC: BG028039.D

(61) 4-Nitroaniline

16.035min (-0.004) 3.49ng/ul

response 6234

Ion	Exp%	Act%
138.00	100	100
92.00	47.80	42.04
108.00	87.50	65.94#
0.00	0.00	0.00

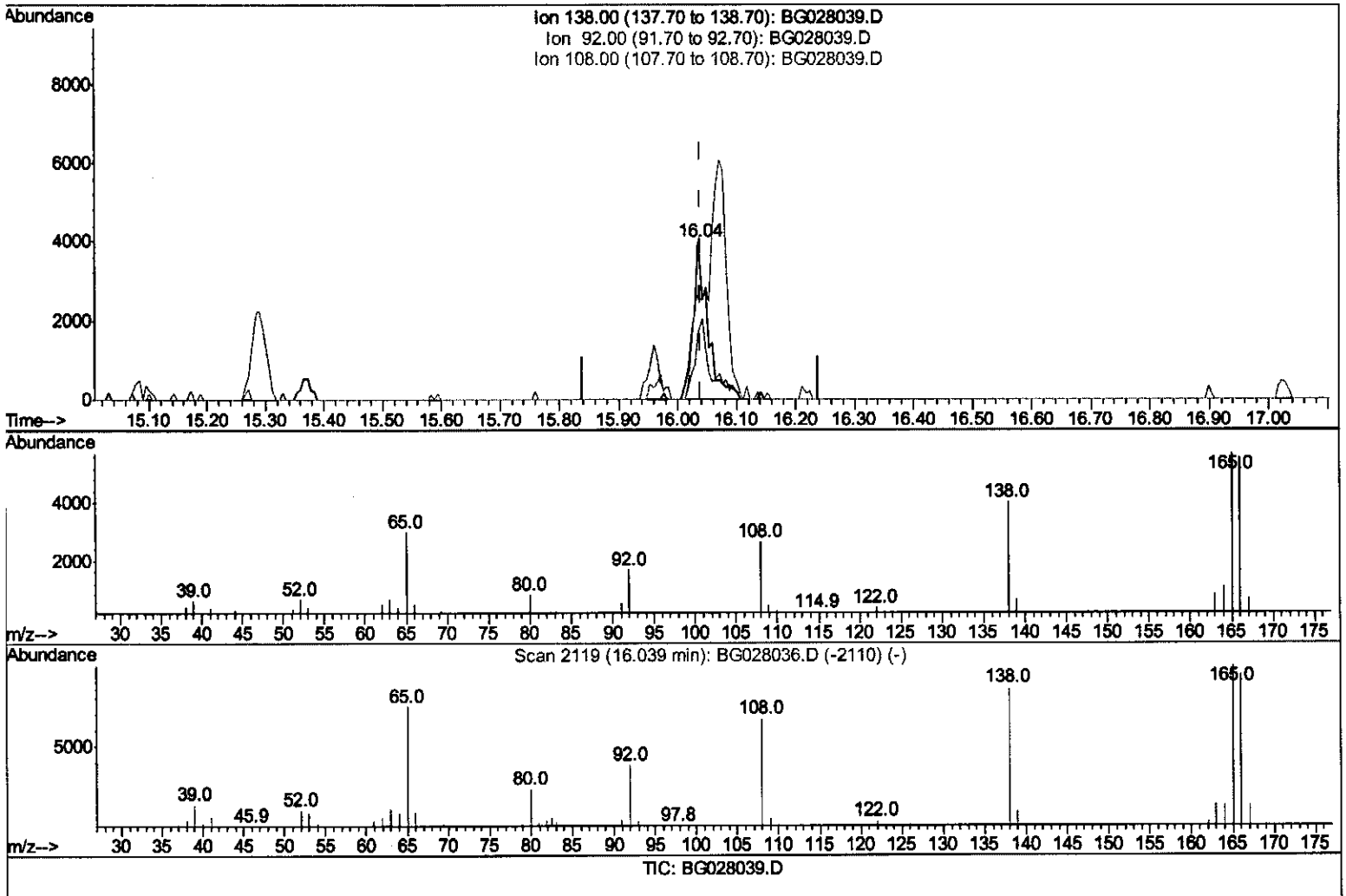
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 28 02:14:32 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM



TIC: BG028039.D

(61) 4-Nitroaniline

16.035min (-0.004) 3.89ng/ul m

response 6948

Ion	Exp%	Act%
138.00	100	100
92.00	47.80	42.04
108.00	87.50	65.94#
0.00	0.00	0.00

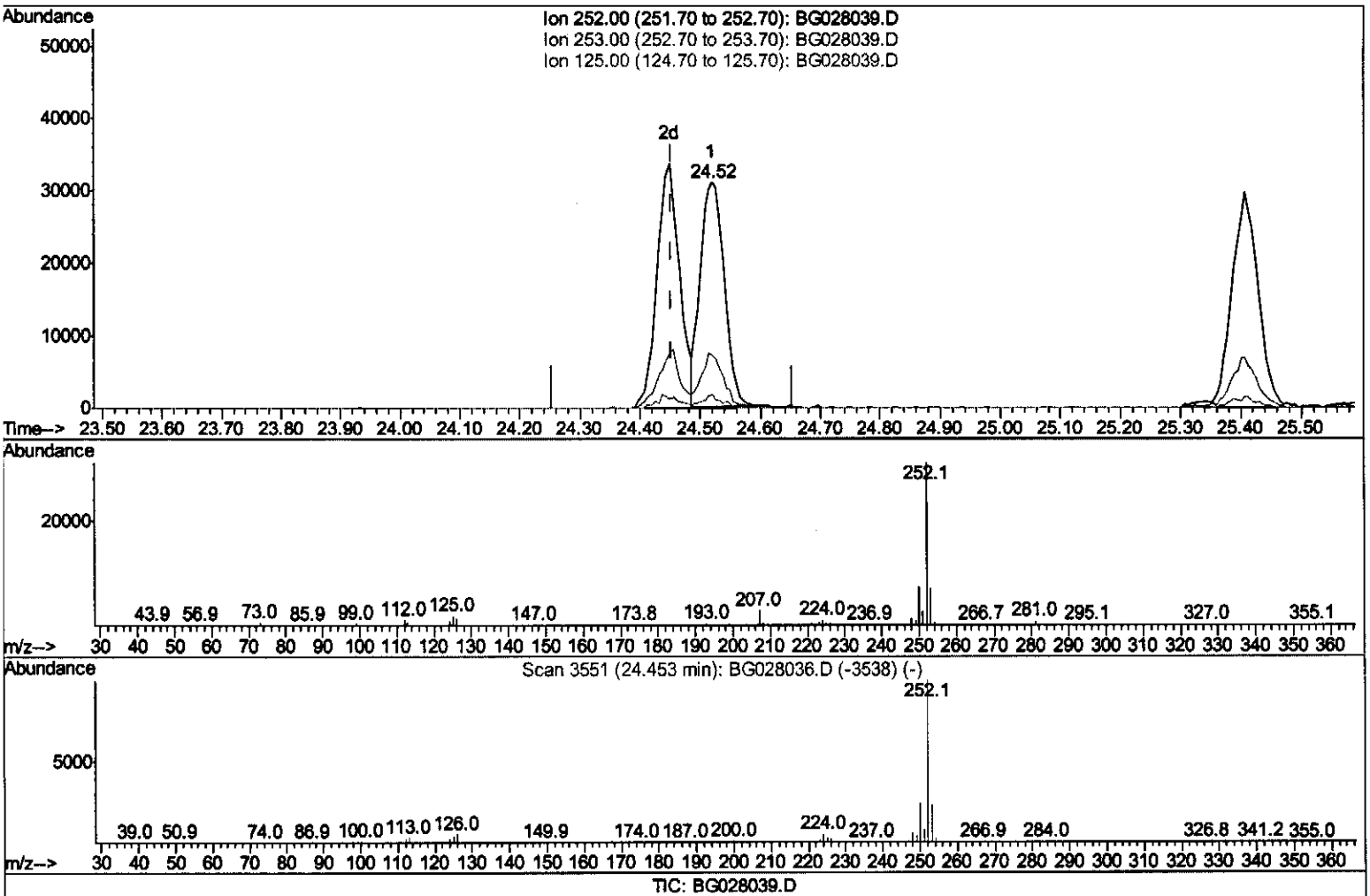
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 28 02:14:32 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM



TIC: BG028039.D

(88) Benzo(b)fluoranthene

24.519min (+0.067) 3.53ng/ul

response 85225

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	23.31
125.00	6.10	6.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 28 02:14:32 2017
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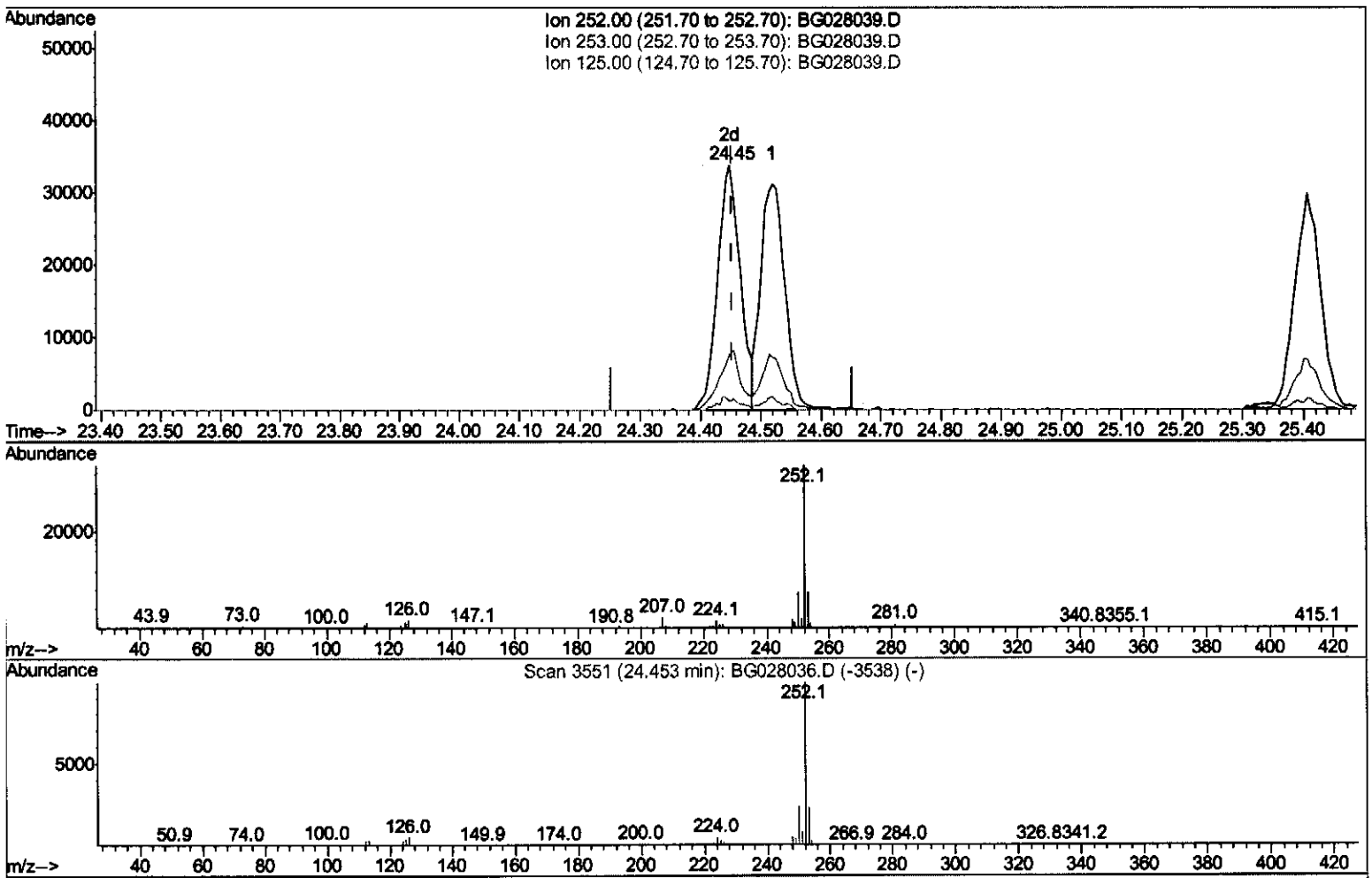
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM



TIC: BG028039.D

(88) Benzo(b)fluoranthene

24.449min (-0.004) 3.64ng/ul m

08/16/17

response 87788

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	22.61
125.00	6.10	3.78#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION
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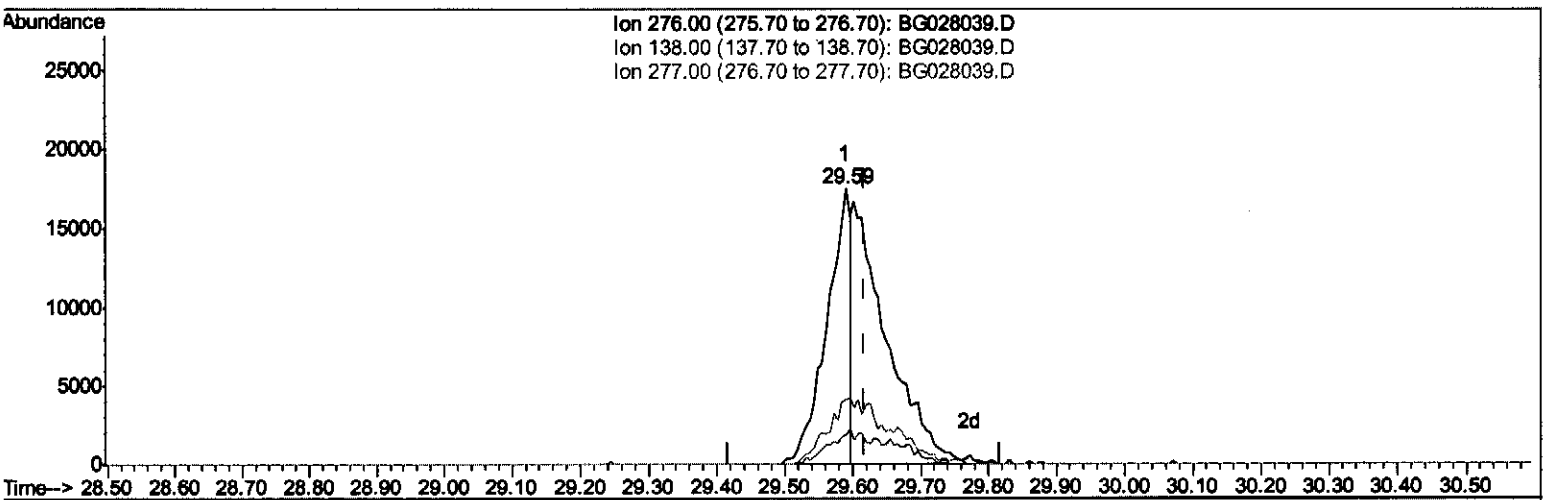
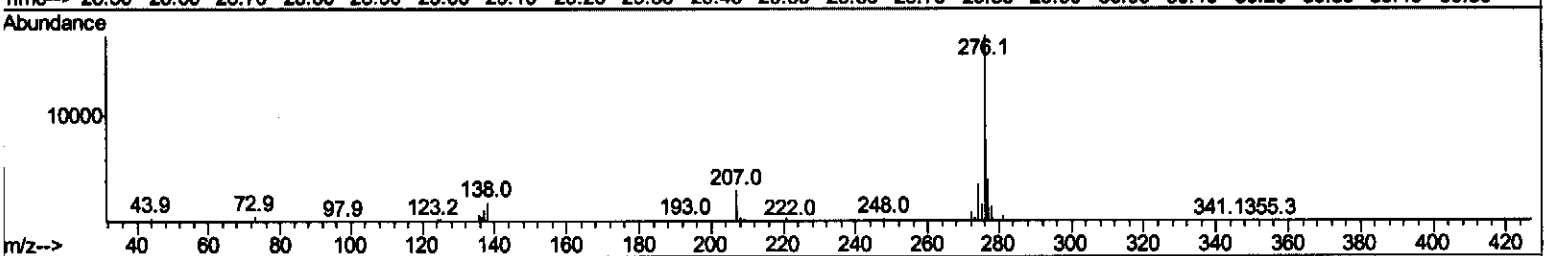
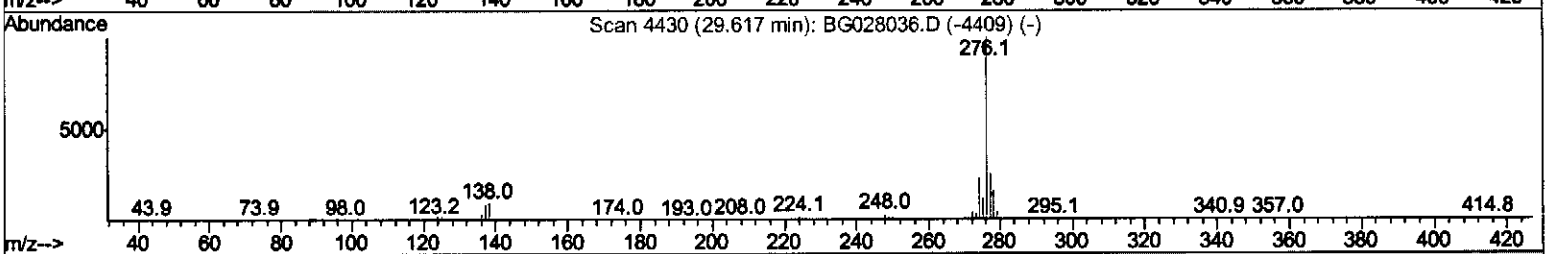
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM







TIC: BG028039.D

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

29.590min (-0.027) 1.48ng/ul

response 41833

Ion	Exp%	Act%
276.00	100	100
138.00	13.60	11.05
277.00	23.60	23.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG072717\
Data File : BG028039.D
Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 28 02:14:32 2017
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Quant Title : SVOA CALIBRATION
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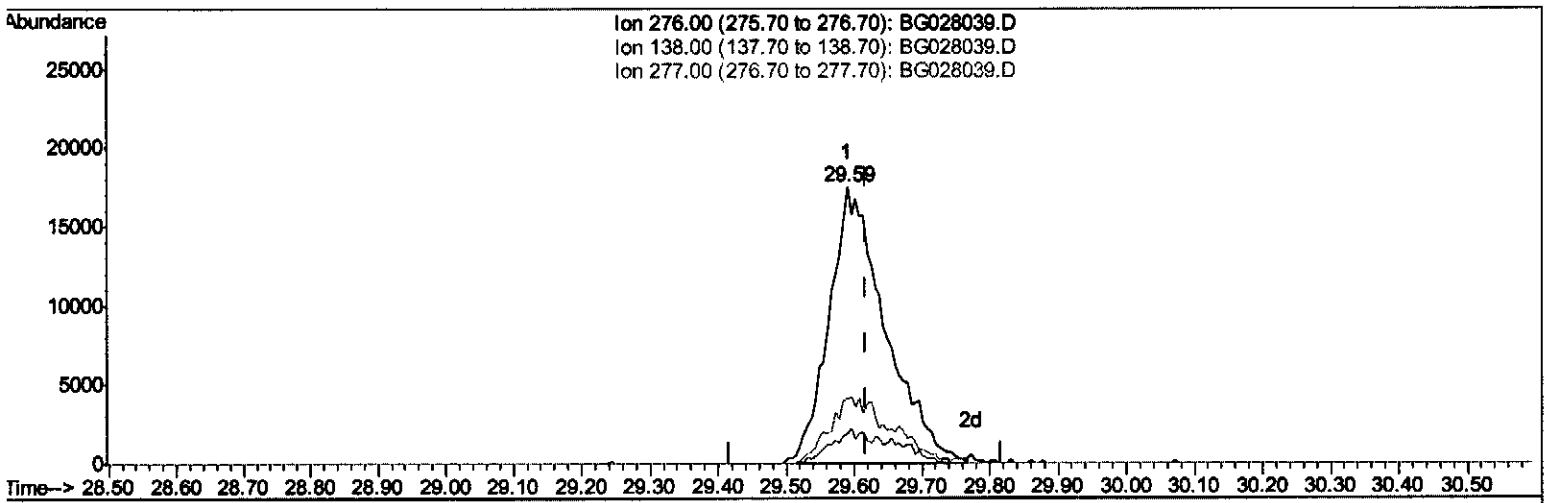
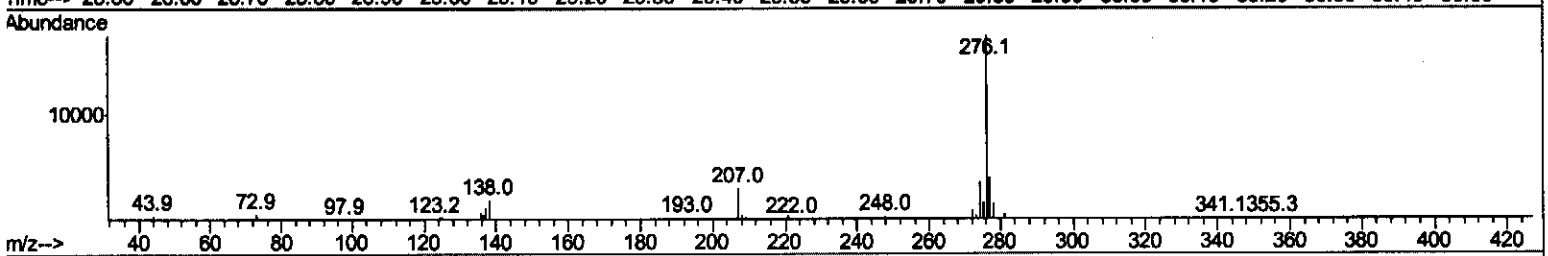
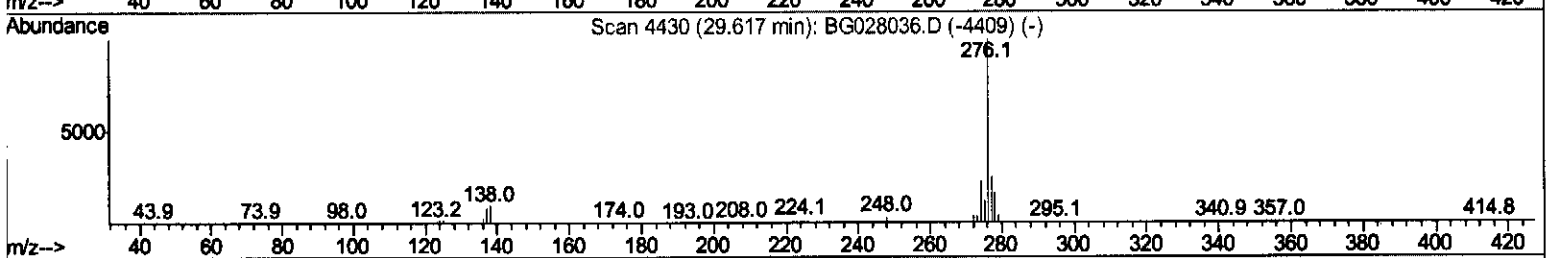
Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM







TIC: BG028039.D

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

29.590min (-0.027) 3.56ng/ul m

response 100430

Ion	Exp%	Act%
276.00	100	100
138.00	13.60	11.05
277.00	23.60	23.44
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

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Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations
APPROVED
Sohil
7/28/2017 4:45:56 PM

Quant Time: Jul 28 03:00:06 2017
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Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.37	152	31330	20.00	ng/ul	0.00
18) Naphthalene-d8	11.19	136	139571	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.97	164	108750	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.72	188	323701	20.00	ng/ul	0.00
78) Chrysene-d12	22.06	240	427245	20.00	ng/ul	0.00
86) Perylene-d12	25.58	264	433349	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.86	96	3221	6.66	ng/uL	0.00
5) Phenol-d5	7.51	99	65121	27.51	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.68	67	36206	30.60	ng/ul	0.00
9) 2-Chlorophenol-d4	7.90	132	61059	30.61	ng/ul	0.00
13) 4-Methylphenol-d8	9.06	113	59231	28.04	ng/ul	0.00
19) Nitrobenzene-d5	9.53	128	29754	30.50	ng/ul	0.00
22) 2-Nitrophenol-d4	10.26	143	38163	30.72	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.80	165	70878	28.98	ng/ul	0.00
29) 4-Chloroaniline-d4	11.32	131	83437	33.83	ng/ul	0.00
44) Dimethylphthalate-d6	14.37	166	315357	32.04	ng/ul	0.00
47) Acenaphthylene-d8	14.67	160	317814	29.85	ng/ul	0.00
52) 4-Nitrophenol-d4	15.15	143	40762	27.57	ng/ul	0.00
58) Fluorene-d10	15.96	176	278278	30.69	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	16.07	200	59442	25.79	ng/ul	0.00
71) Anthracene-d10	17.82	188	479176	30.91	ng/ul	0.00
79) Pyrene-d10	20.10	212	597113	31.46	ng/ul	0.00
90) Benzo(a)pyrene-d12	25.34	264	609796	30.59	ng/ul	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.90	88	844m	1.628	ng/uL	
6) Phenol	7.54	94	8010	3.490	ng/ul	97
8) Bis(2-Chloroethyl)ether	7.77	93	6473	3.984	ng/ul	87
10) 2-Chlorophenol	7.93	128	6821	3.712	ng/ul#	87
11) 2-Methylphenol	8.80	108	5718	3.195	ng/ul	96
12) 2,2'-oxybis(1-Chloropropan	8.89	45	8058	3.778	ng/ul#	85
14) Acetophenone	9.19	105	11389	3.711	ng/ul	94
15) N-Nitroso-di-n-propylamine	9.16	70	5322	3.694	ng/ul	92
16) 4-Methylphenol	9.12	108	6612	3.330	ng/ul	98
17) Hexachloroethane	9.46	117	2576	3.504	ng/ul#	89
20) Nitrobenzene	9.58	77	7840	3.742	ng/ul#	93
21) Isophorone	10.09	82	15791	3.945	ng/ul	100
23) 2-Nitrophenol	10.29	139	4628	3.866	ng/ul	95
24) 2,4-Dimethylphenol	10.33	107	8454	3.530	ng/ul	92
25) Bis(2-Chloroethoxy)methane	10.57	93	8722	3.751	ng/ul#	91
27) 2,4-Dichlorophenol	10.82	162	8310	3.566	ng/ul#	80
28) Naphthalene	11.23	128	24034	3.815	ng/ul#	94
30) 4-Chloroaniline	11.35	127	6948	2.960	ng/ul#	81
31) Hexachlorobutadiene	11.52	225	7764	3.851	ng/ul	95
32) Caprolactam	12.13	113	2526m	3.377	ng/ul	
33) 4-Chloro-3-methylphenol	12.45	107	8135	3.583	ng/ul	87
34) 2-Methylnaphthalene	12.82	142	21482	3.951	ng/ul	93
35) 1-Methylnaphthalene	13.04	142	21471	4.073	ng/ul#	83

JMu. 08/6/17

Quantitation Report (QT Reviewed)

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Acq On : 27 Jul 2017 23:07
Operator : SJ/JU
Sample : MDL-S-02
Misc : 4 PPM
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
MDL-S-02

Manual Integrations APPROVED
Sohil
7/28/2017 4:45:56 PM

Quant Time: Jul 28 03:00:06 2017
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG072717MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 28 02:09:08 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,2,4,5-Tetrachlorobenzene	13.18	216	16766	4.002 ng/ul#	97
38) Hexachlorocyclopentadiene	13.16	237	6158	2.507 ng/ul	91
39) 2,4,6-Trichlorophenol	13.41	196	8413	3.364 ng/ul	95
40) 2,4,5-Trichlorophenol	13.50	196	8458	3.184 ng/ul	93
41) 1,1'-Biphenyl	13.81	154	30364	3.841 ng/ul#	98
42) 2-Chloronaphthalene	13.86	162	24420	3.831 ng/ul	98
43) 2-Nitroaniline	14.06	65	4977	3.313 ng/ul	85
45) Dimethylphthalate	14.41	163	36603	4.060 ng/ul#	97
46) 2,6-Dinitrotoluene	14.54	165	6232	3.443 ng/ul	91
48) Acenaphthylene	14.70	152	39755	3.940 ng/ul	97
49) 3-Nitroaniline	14.87	138	5197	3.455 ng/ul#	76
50) Acenaphthene	15.04	153	26376	3.817 ng/ul	97
51) 2,4-Dinitrophenol	15.09	184	2557	2.213 ng/ul	90
53) 4-Nitrophenol	15.17	109	4081	3.394 ng/ul	92
54) Dibenzofuran	15.37	168	40803	3.884 ng/ul	100
55) 2,4-Dinitrotoluene	15.32	165	10194	3.771 ng/ul	100
56) 2,3,4,6-Tetrachlorophenol	15.60	232	9257	3.272 ng/ul	96
57) Diethylphthalate	15.76	149	35120	3.710 ng/ul	99
59) Fluorene	16.02	166	33356	3.660 ng/ul	92
60) 4-Chlorophenyl-phenylether	16.00	204	21360	3.923 ng/ul	91
61) 4-Nitroaniline	16.04	138	6948m	3.889 ng/ul	
64) 4,6-Dinitro-2-methylphenol	16.09	198	8294	3.755 ng/ul#	89
65) N-Nitrosodiphenylamine	16.21	169	30660	3.752 ng/ul	96
66) 4-Bromophenyl-phenylether	16.90	248	14571	3.501 ng/ul#	92
67) Hexachlorobenzene	17.03	284	18198	3.845 ng/ul#	92
68) Atrazine	17.15	200	12692	3.256 ng/ul	91
69) Pentachlorophenol	17.37	266	5149	2.084 ng/ul	92
70) Phenanthrene	17.77	178	62426	3.879 ng/ul	100
72) Anthracene	17.86	178	64725	3.863 ng/ul	98
73) 1,2,3,4-Tetrachlorobenzene	13.78	216	16467	3.647 ng/uL	92
74) Pentachlorobenzene	15.29	250	24032	3.582 ng/uL	95
75) Carbazole	18.13	167	51076	3.722 ng/ul	98
76) Di-n-butylphthalate	18.66	149	55926	3.671 ng/ul#	96
77) Fluoranthene	19.76	202	81388	3.957 ng/ul#	92
80) Pyrene	20.12	202	90080	4.062 ng/ul#	93
81) Butylbenzylphthalate	20.99	149	22170	3.364 ng/ul#	90
82) 3,3'-Dichlorobenzidine	21.94	252	25311	3.238 ng/ul#	94
83) Benzo(a)anthracene	22.03	228	87545	3.858 ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.90	149	31462	3.264 ng/ul#	92
85) Chrysene	22.11	228	83233	4.009 ng/ul	97
87) Di-n-octyl phthalate	23.21	149	53083	3.108 ng/ul	100
88) Benzo(b)fluoranthene	24.45	252	87788m	3.639 ng/ul	
89) Benzo(k)fluoranthene	24.52	252	86663	3.685 ng/ul	96
91) Benzo(a)pyrene	25.41	252	89117	3.839 ng/ul#	95
92) Indeno(1,2,3-cd)pyrene	29.59	276	100430m	3.565 ng/ul	
93) Dibenzo(a,h)anthracene	29.67	278	87163	3.607 ng/ul#	96
94) Benzo(g,h,i)perylene	30.86	276	86546	3.706 ng/ul#	89

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