

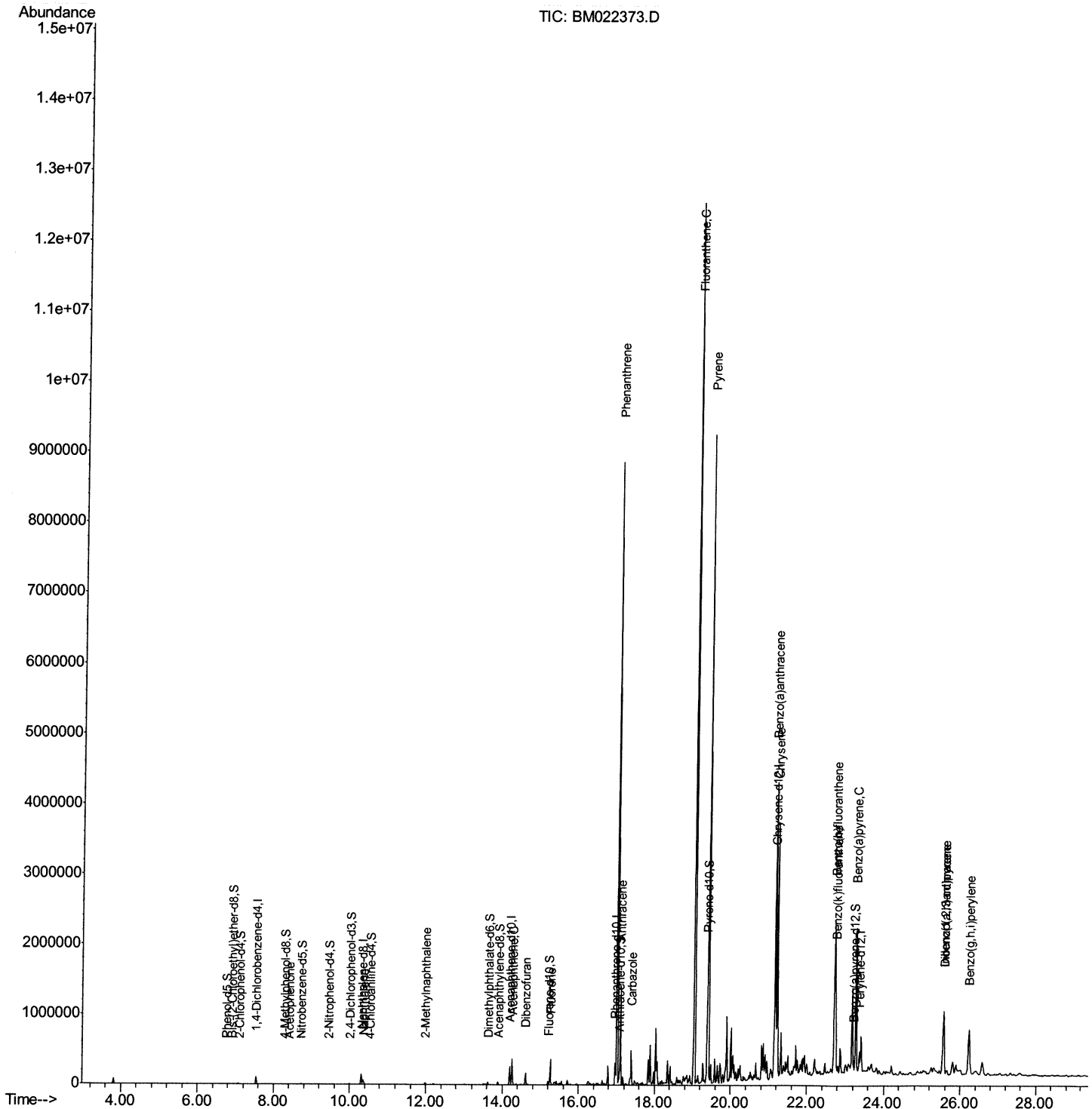
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AG7

Manual Integrations
APPROVED

mohammad
8/28/2019 11:32:46 PM

Quant Time: Aug 28 04:51:44 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 27 17:04:34 2019
Response via : Initial Calibration



Quantitation Report (Qedit)

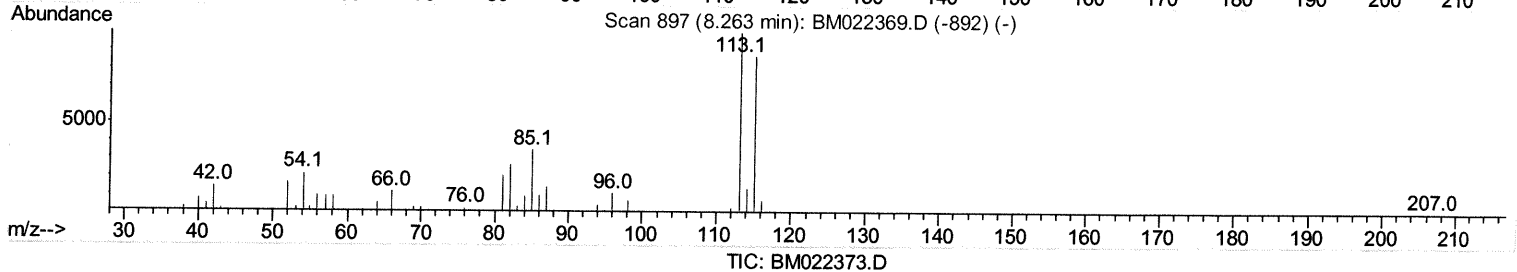
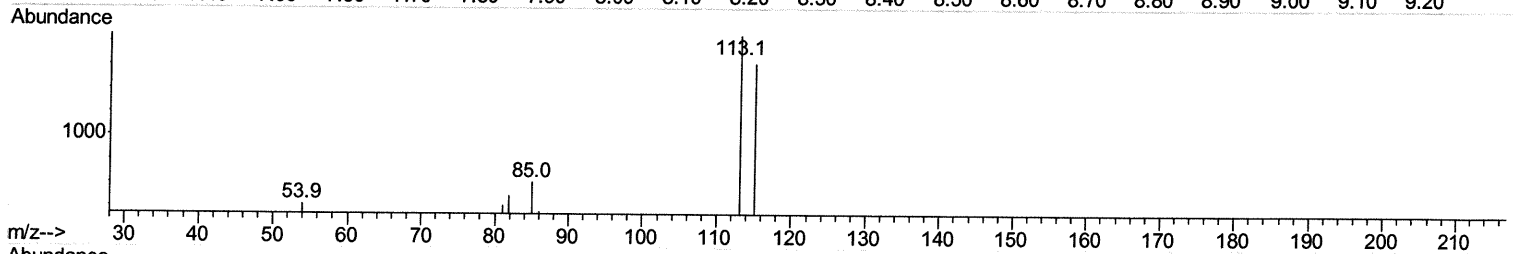
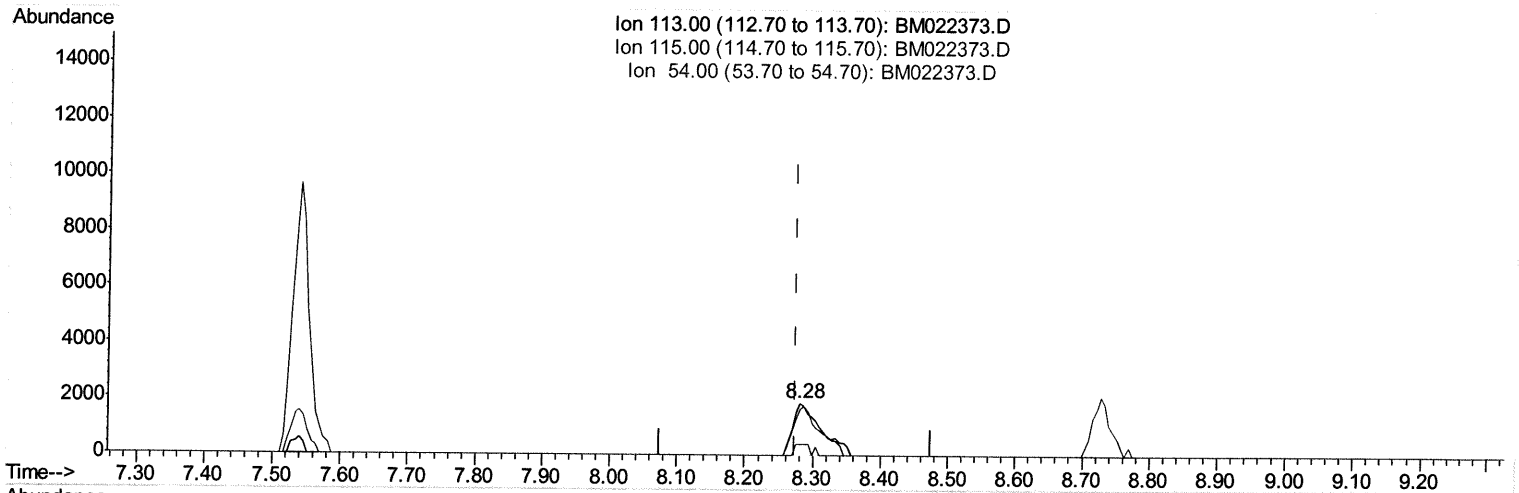
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(13) 4-Methylphenol-d8 (S)

8.281min (+0.006) 2.47ng/ul

response 4772

Ion	Exp%	Act%
113.00	100	100
115.00	91.10	86.88
54.00	22.10	22.31
0.00	0.00	0.00

Quantitation Report (Qedit)

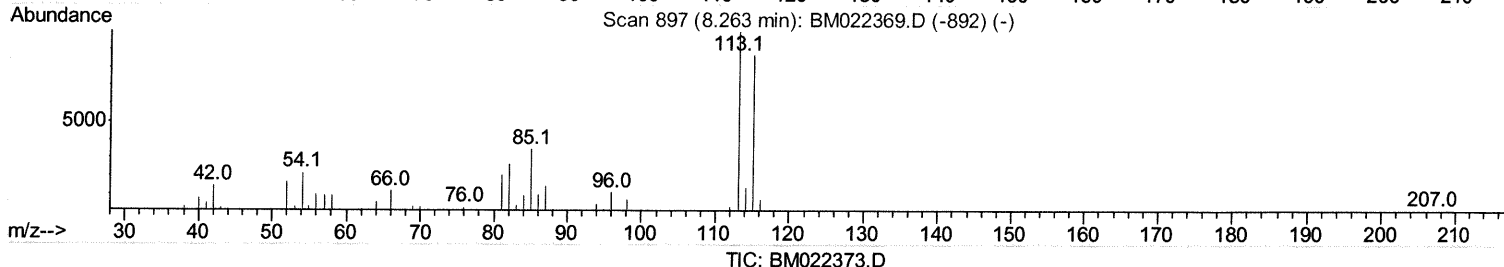
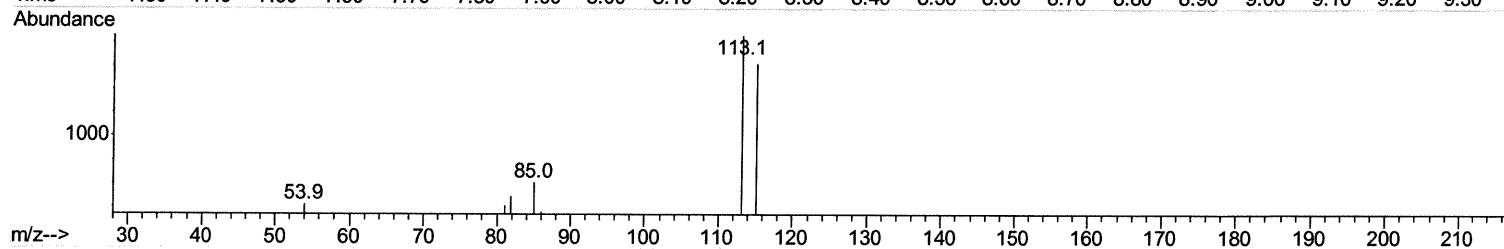
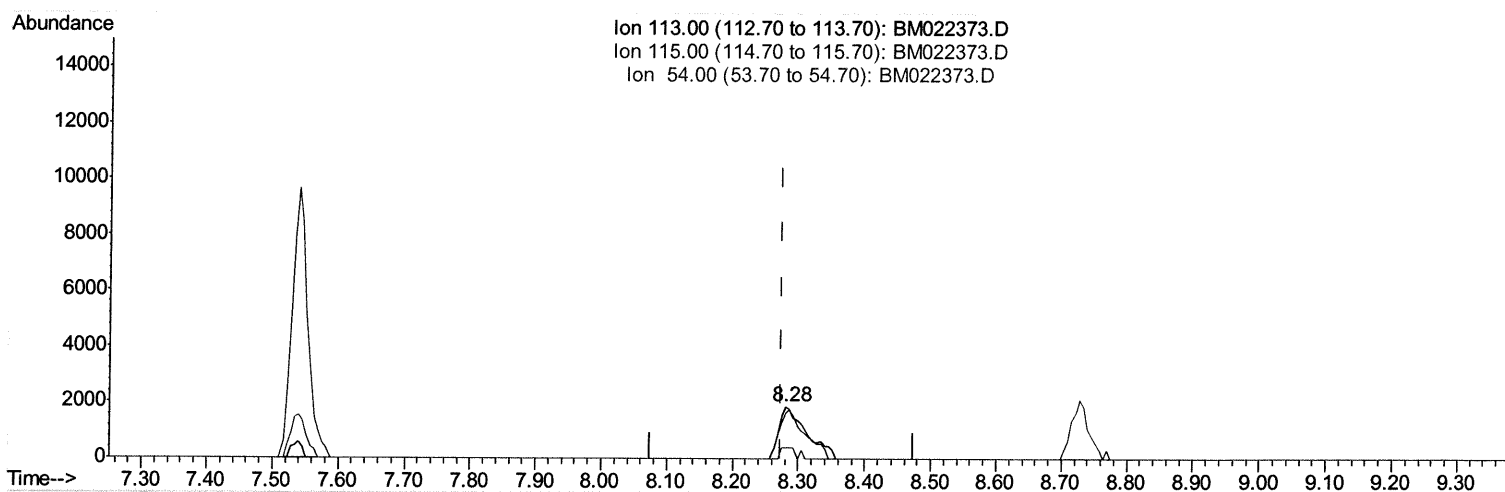
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(13) 4-Methylphenol-d8 (S)

8.281min (+0.006) 2.79ng/ul m *JU 08/28/19*

response 5405

Ion	Exp%	Act%
113.00	100	100
115.00	91.10	86.88
54.00	22.10	22.31
0.00	0.00	0.00

Quantitation Report (Qedit)

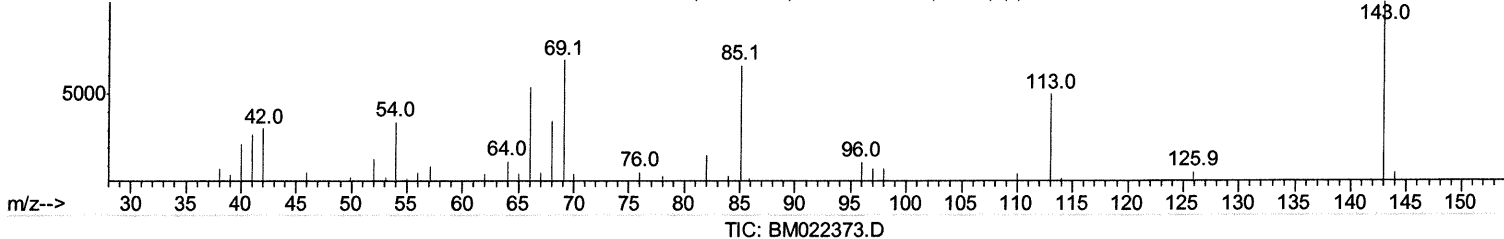
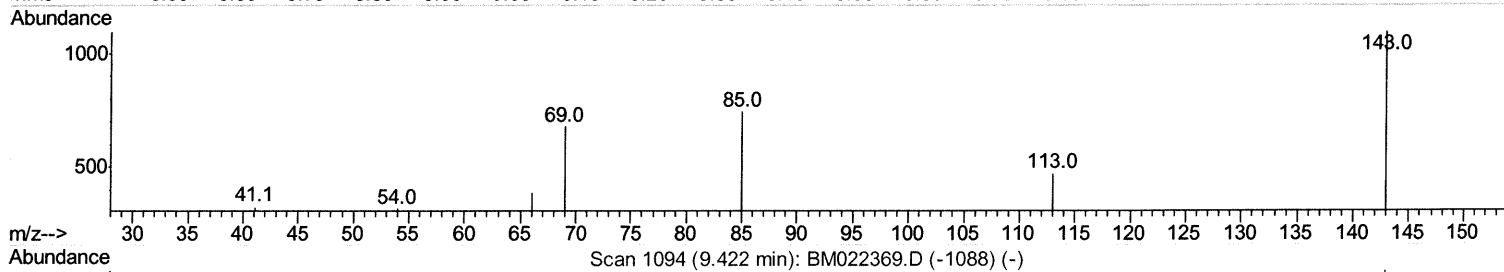
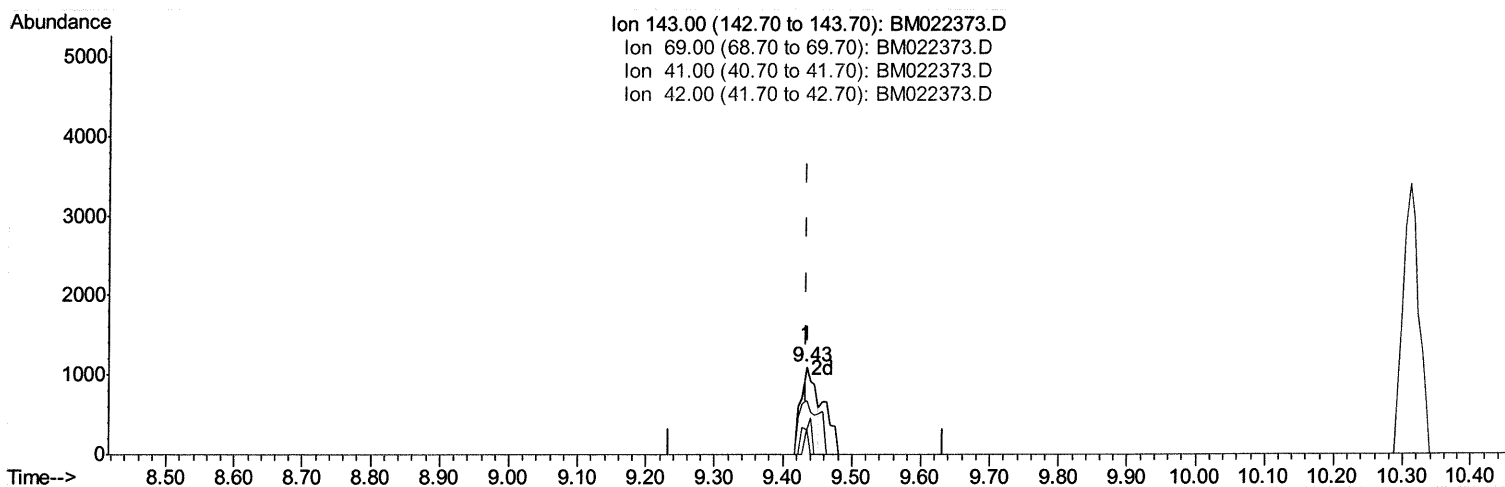
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AG7

Manual Integrations
APPROVED

mohammad
8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 27 17:04:34 2019
Response via : Initial Calibration



(22) 2-Nitrophenol-d4 (S)

9.434min (+0.000) 1.76ng/ul

response 1691

Ion	Exp%	Act%
143.00	100	100
69.00	61.00	61.75
41.00	27.40	29.51
42.00	28.70	27.78

Quantitation Report (Qedit)

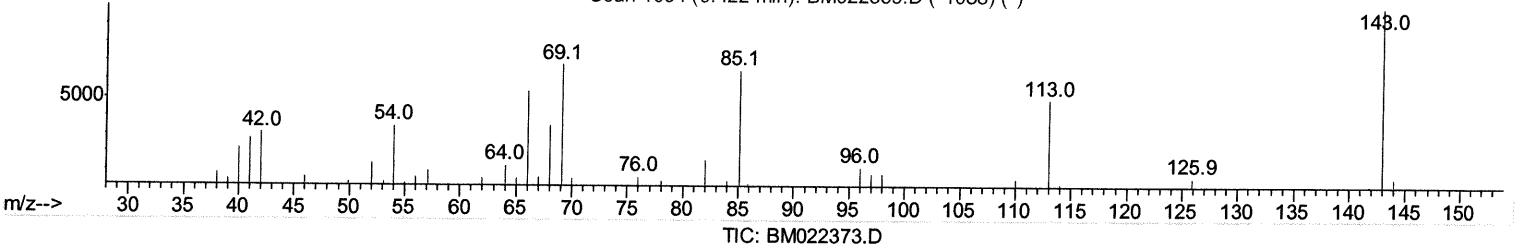
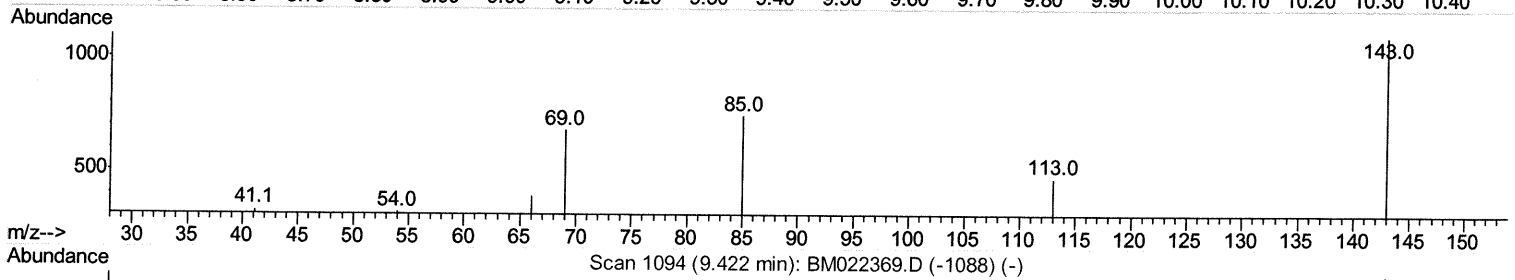
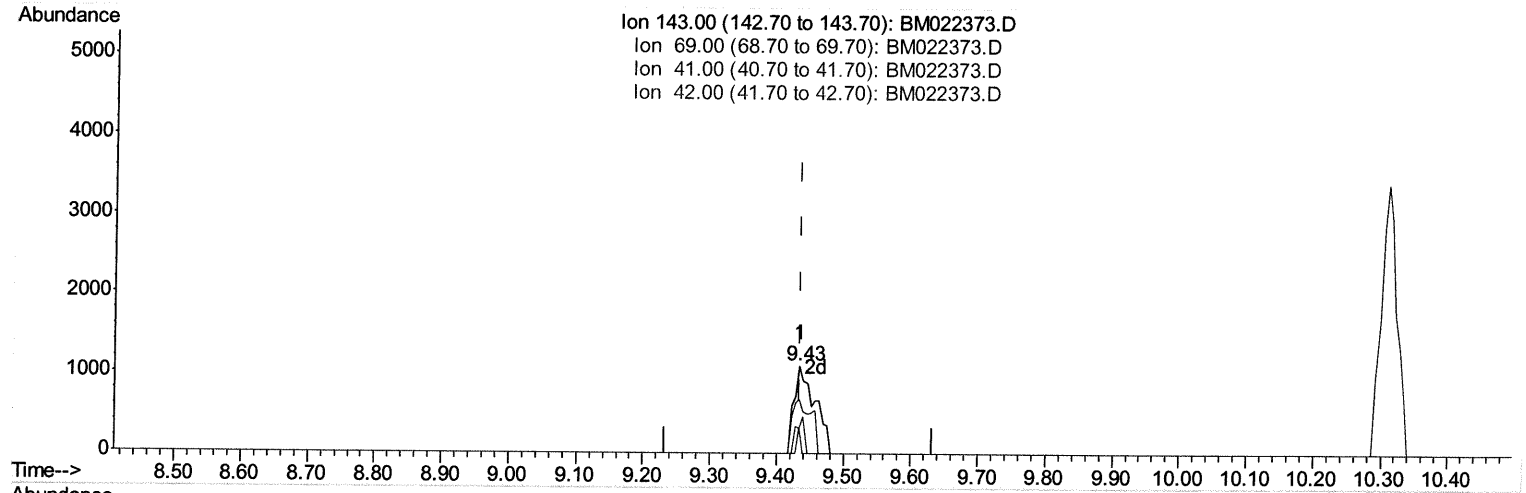
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(22) 2-Nitrophenol-d4 (S)

9.434min (+0.000) 2.51ng/ul m

JU
 08/28/19

response 2416

Ion	Exp%	Act%
143.00	100	100
69.00	61.00	61.75
41.00	27.40	29.51
42.00	28.70	27.78

Quantitation Report (Qedit)

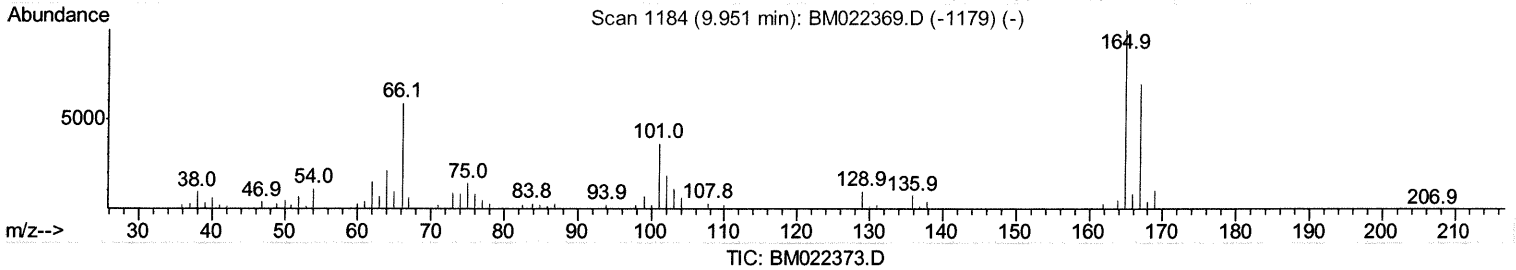
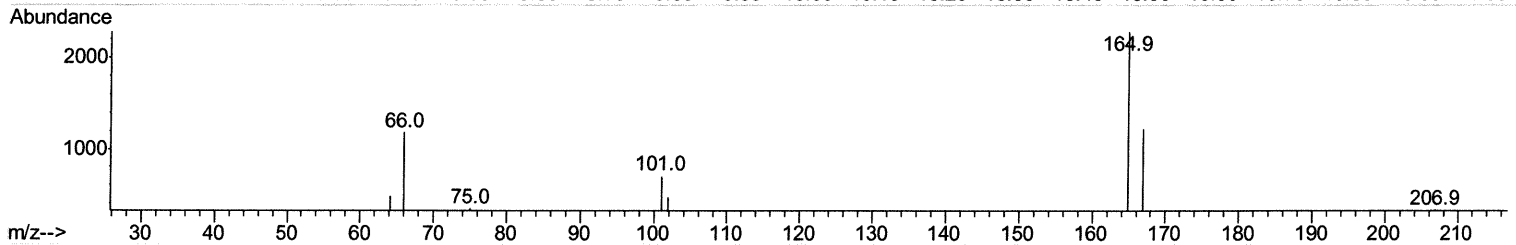
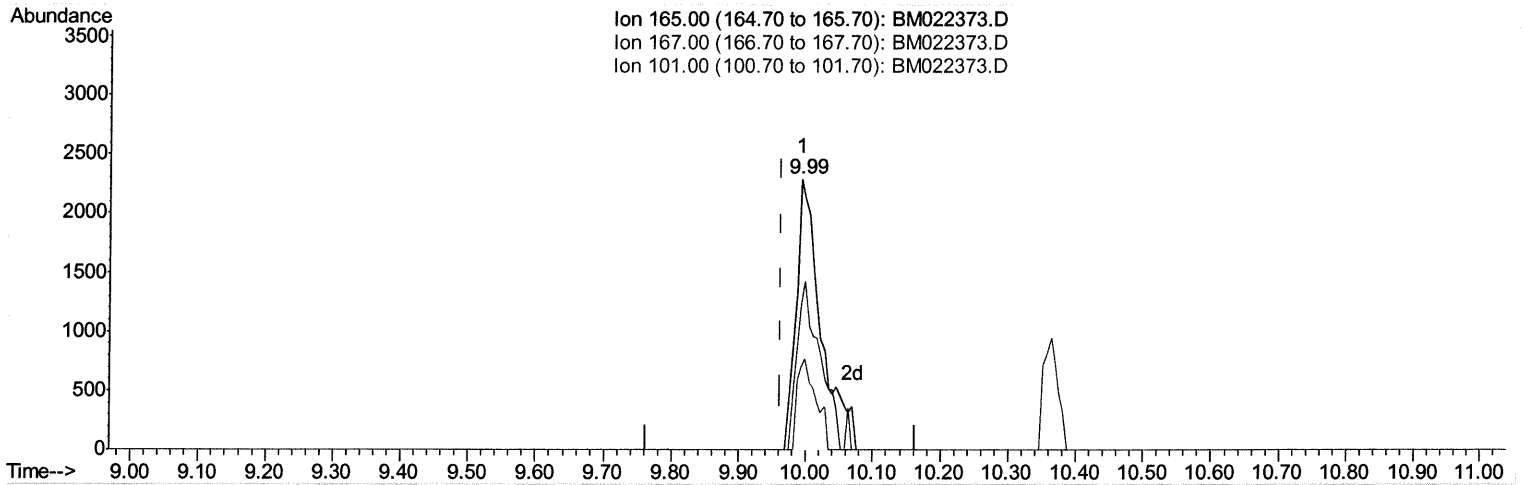
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(26) 2,4-Dichlorophenol-d3 (S)

9.992min (+0.029) 2.63ng/ul

response 5151

Ion	Exp%	Act%
165.00	100	100
167.00	62.10	53.77
101.00	31.40	30.69
0.00	0.00	0.00

Quantitation Report (Qedit)

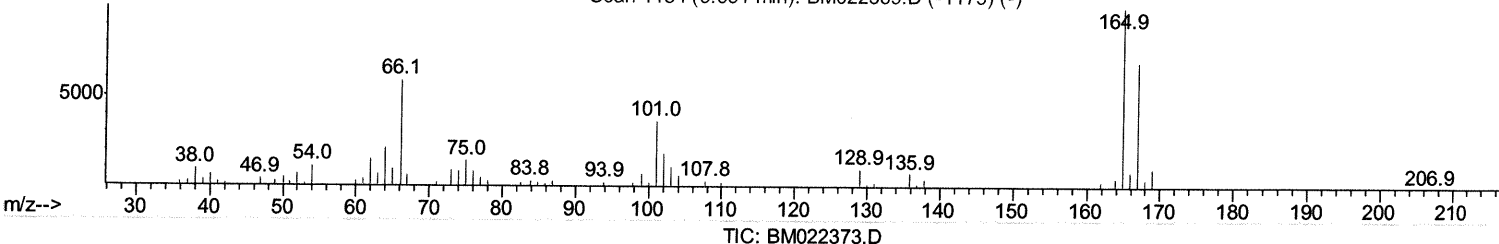
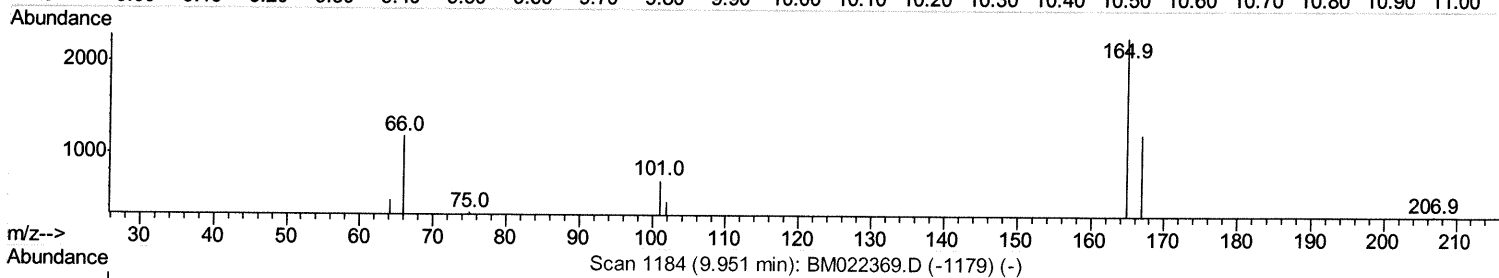
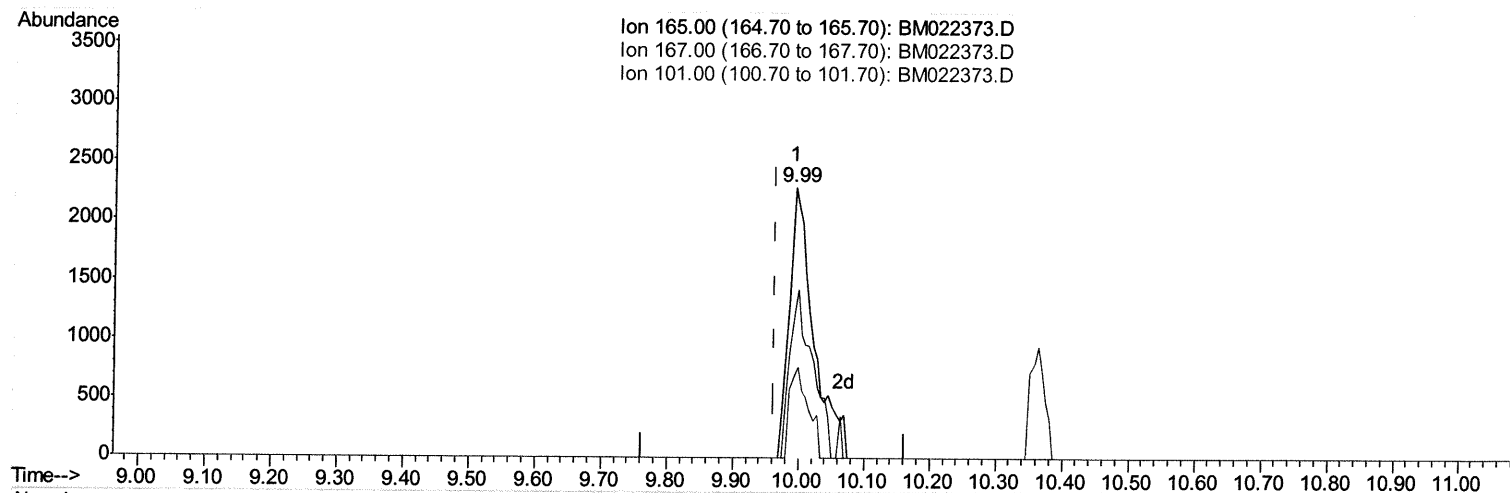
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(26) 2,4-Dichlorophenol-d3 (S)

9.992min (+0.029) 3.00ng/ul m

JU
08/28/19

response 5860

Ion	Exp%	Act%
165.00	100	100
167.00	62.10	53.77
101.00	31.40	30.69
0.00	0.00	0.00

Quantitation Report (Qedit)

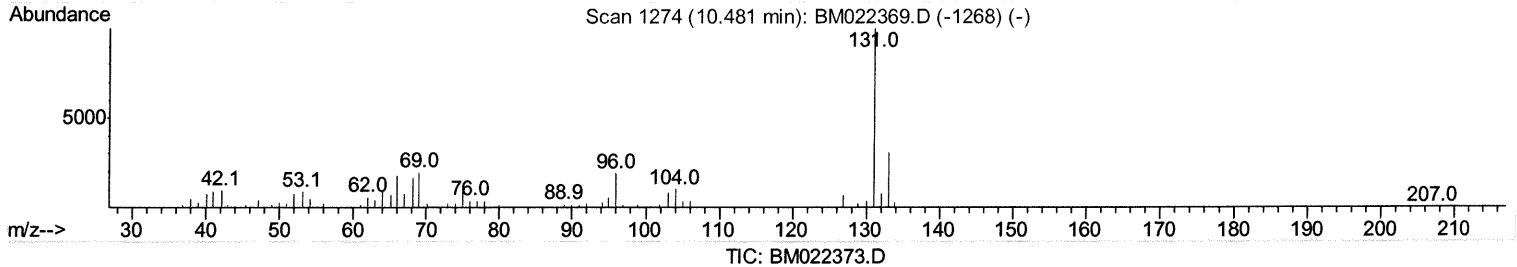
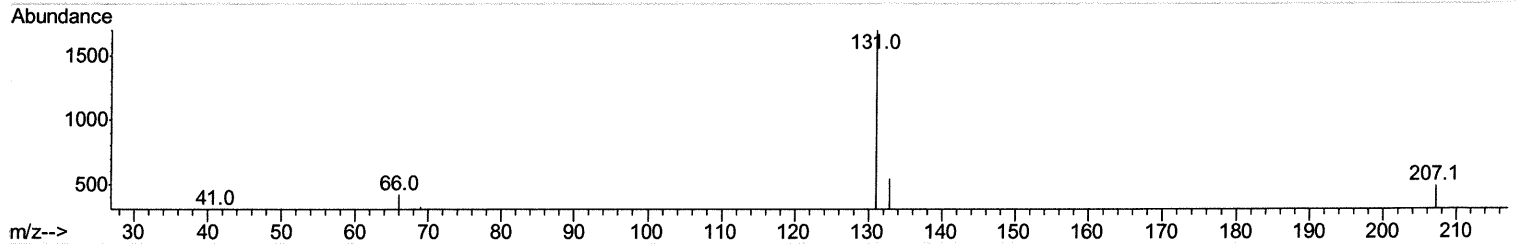
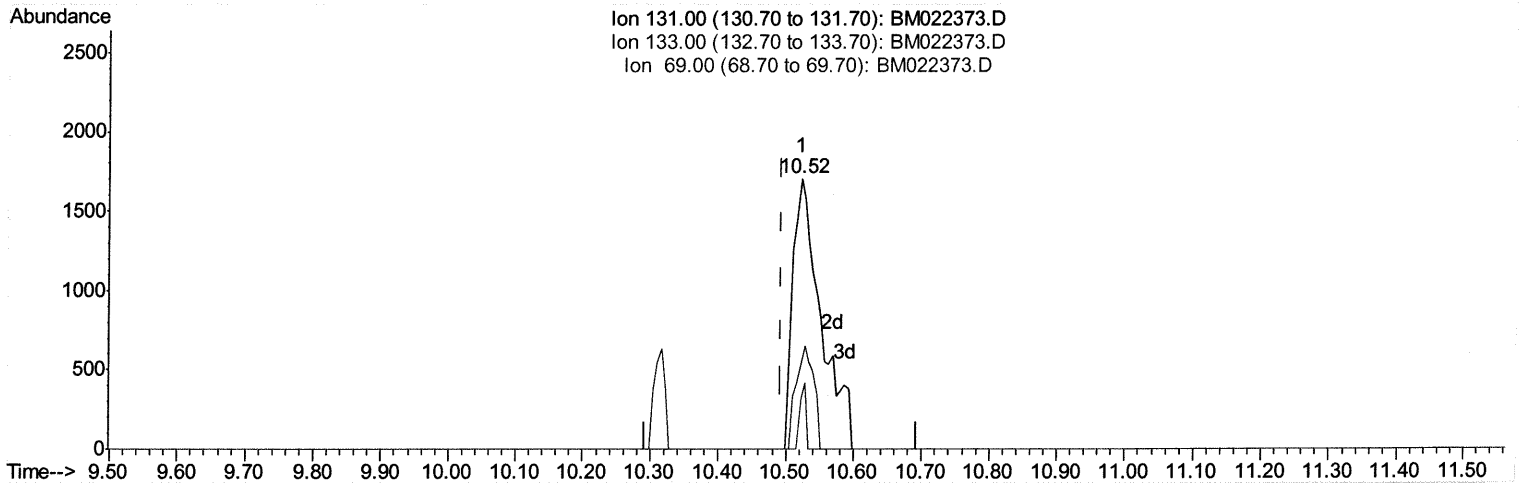
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(29) 4-Chloroaniline-d4 (S)

10.522min (+0.029) 1.76ng/ul

response 4185

Ion	Exp%	Act%
131.00	100	100
133.00	31.60	31.96
69.00	20.00	18.86
0.00	0.00	0.00

Quantitation Report (Qedit)

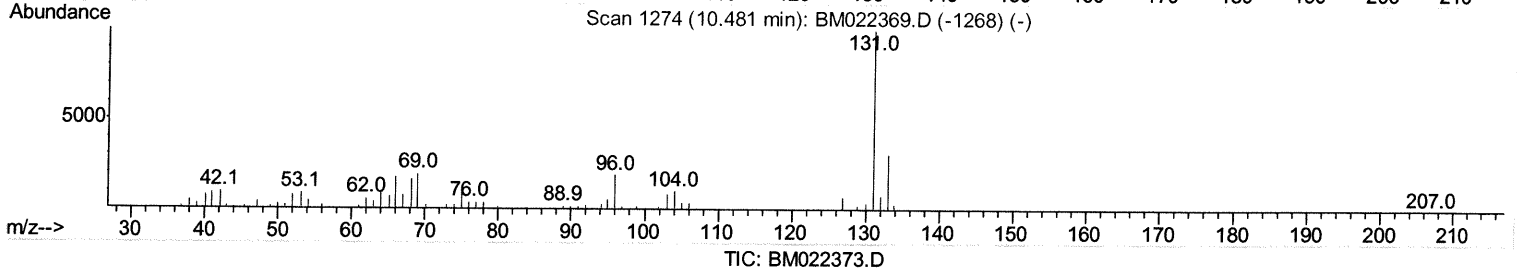
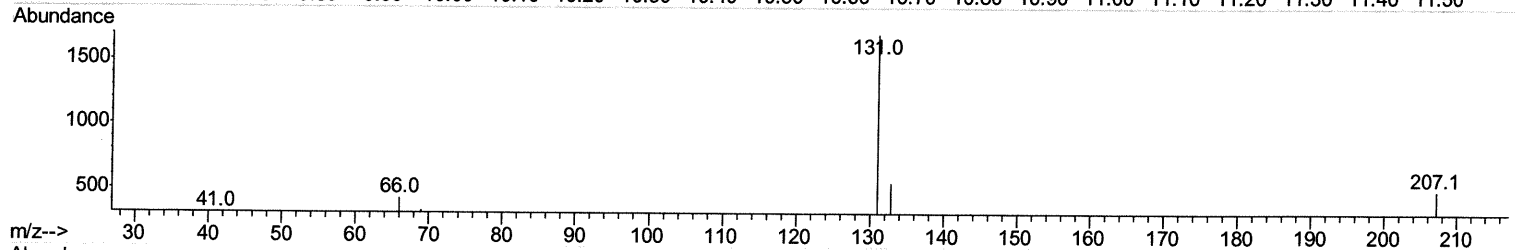
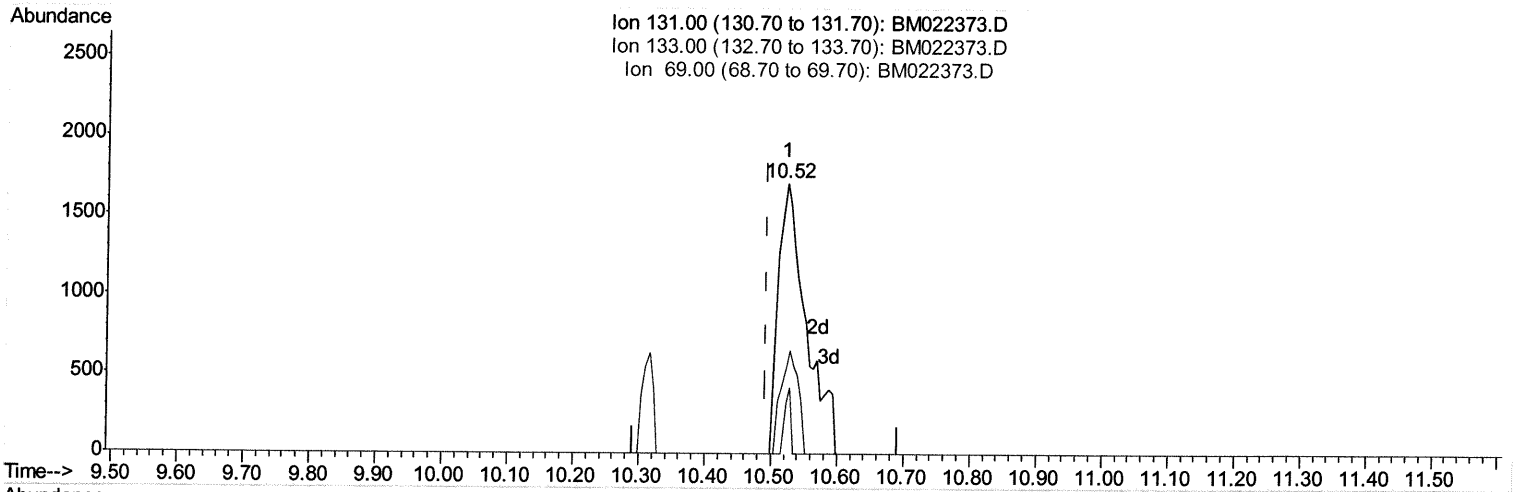
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(29) 4-Chloroaniline-d4 (S)

10.522min (+0.029) 2.07ng/ul m

JU
08/28/19

response 4914

Ion	Exp%	Act%
131.00	100	100
133.00	31.60	31.96
69.00	20.00	18.86
0.00	0.00	0.00

Quantitation Report (Qedit)

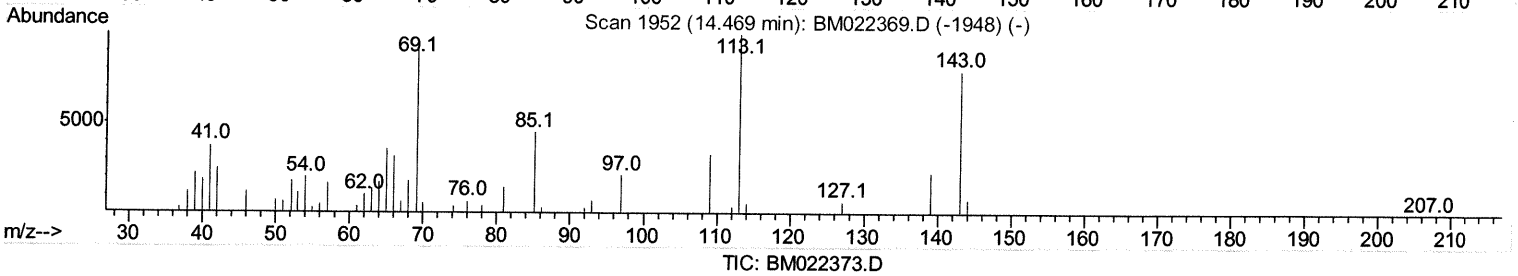
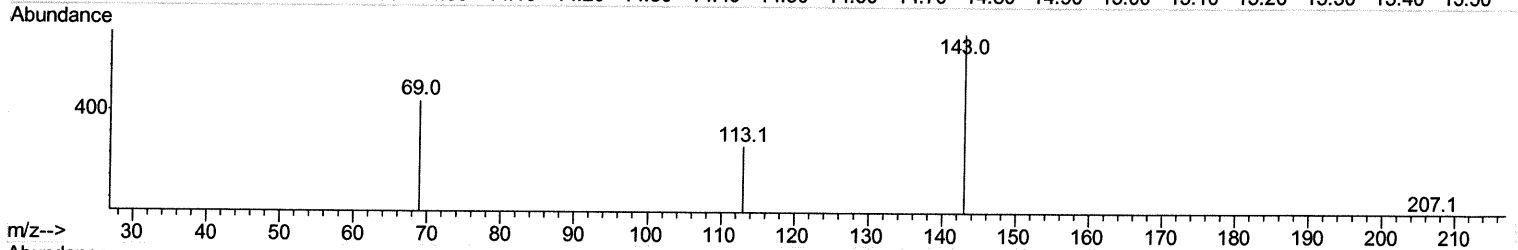
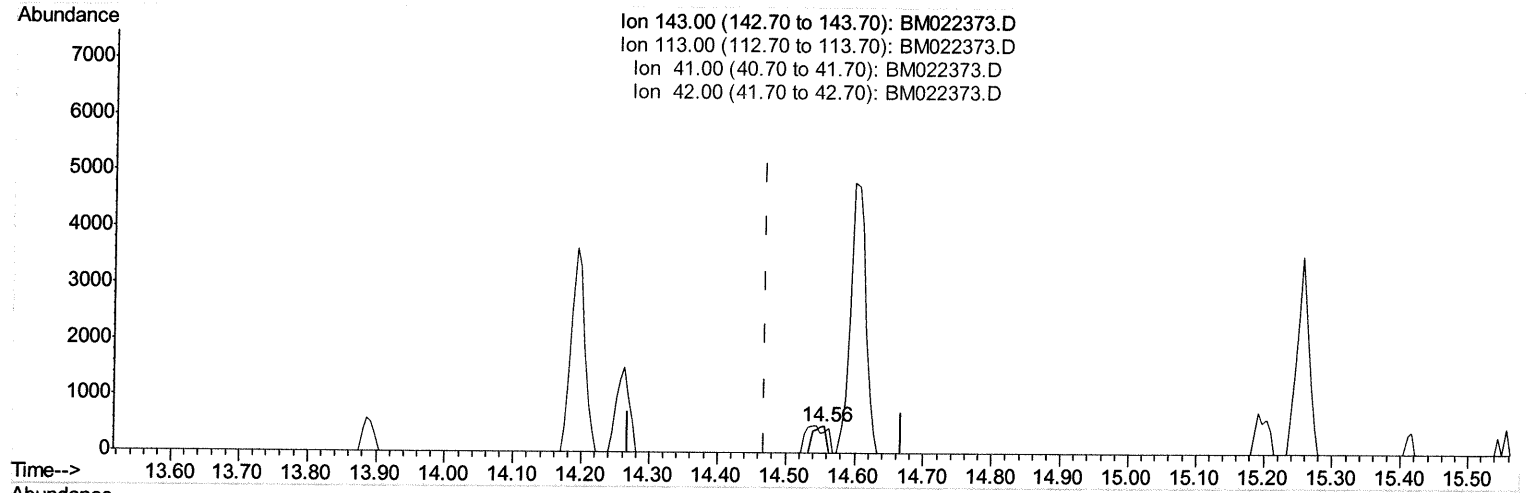
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(51) 4-Nitrophenol-d4 (S)
 14.557min (+0.088) 0.61ng/ul
 response 615

Ion	Exp%	Act%
143.00	100	100
113.00	116.00	78.13#
41.00	50.80	0.00#
42.00	27.00	0.00#

Quantitation Report (Qedit)

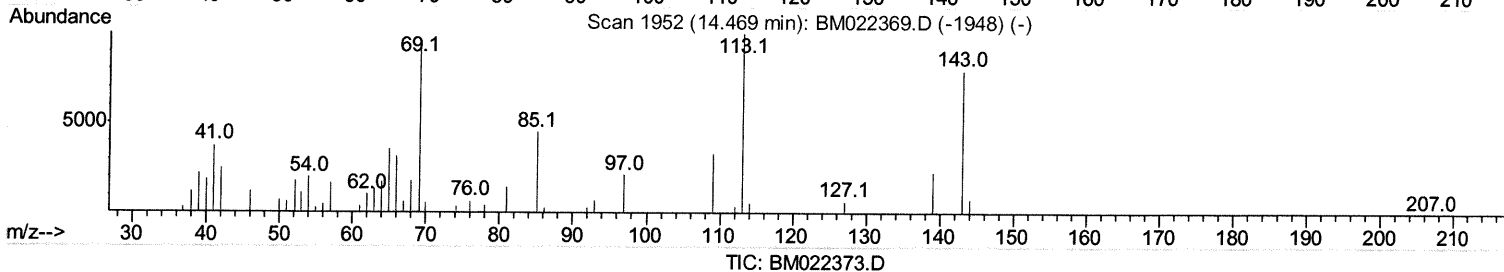
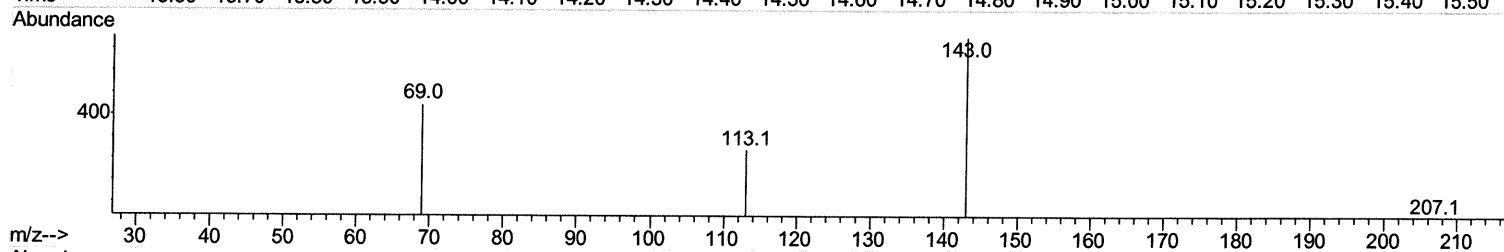
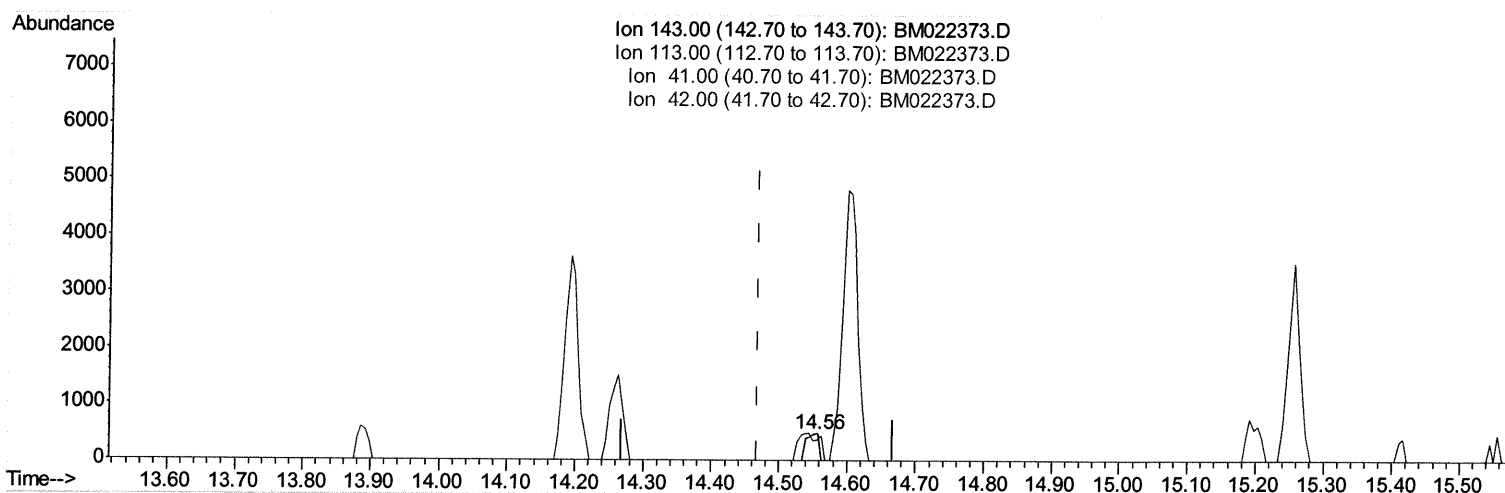
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(51) 4-Nitrophenol-d4 (S)

14.557min (+0.088) 0.61ng/ul m

JU
 08/28/19

response 615

Ion	Exp%	Act%
143.00	100	100
113.00	116.00	78.13#
41.00	50.80	0.00#
42.00	27.00	0.00#

Quantitation Report (Qedit)

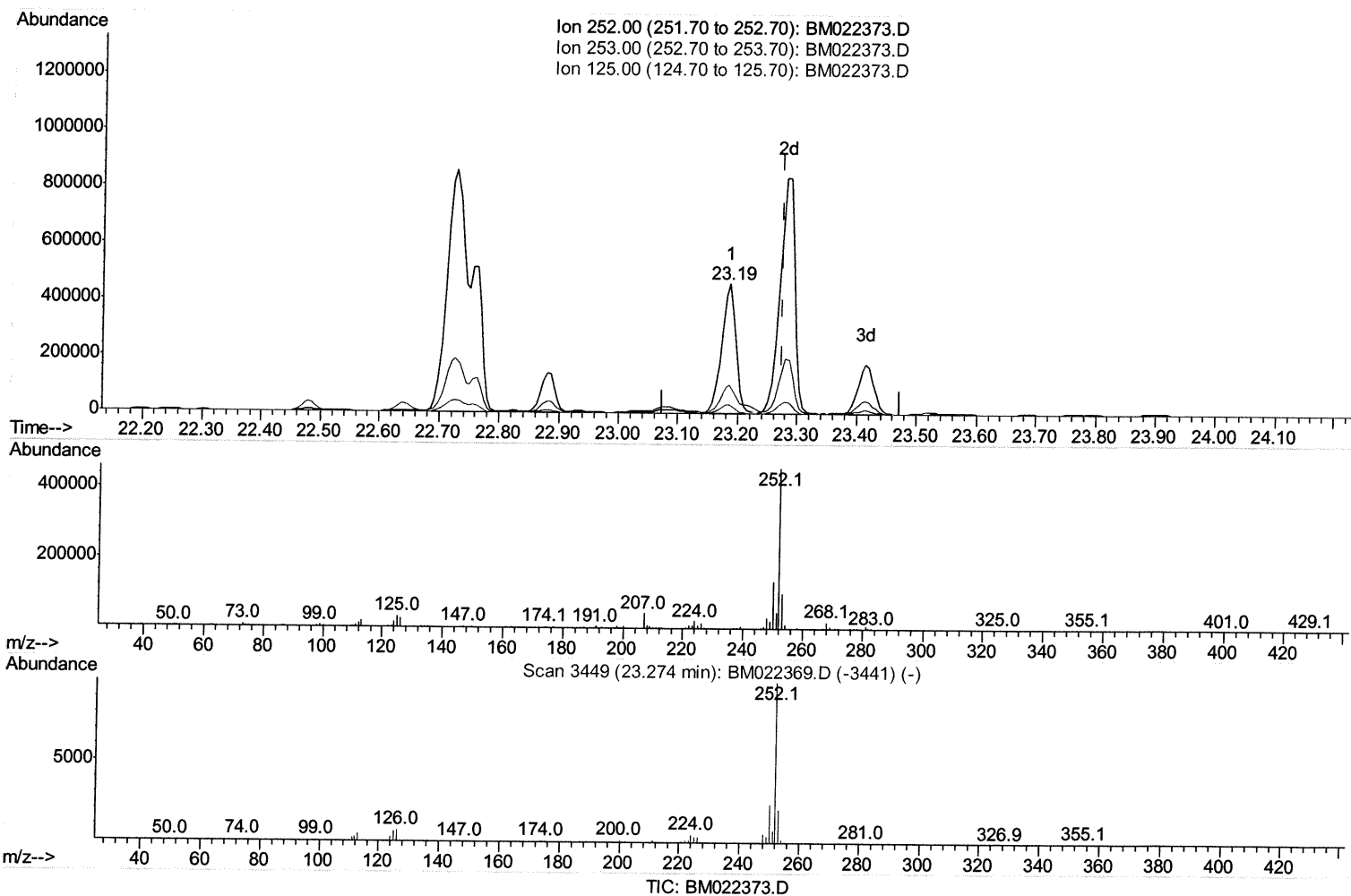
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AG7

Manual Integrations
APPROVED

mohammad
8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 27 17:04:34 2019
Response via : Initial Calibration



(90) Benzo(a)pyrene (C)

23.186min (-0.088) 64.04ng/ul

response 759537

Ion	Exp%	Act%
252.00	100	100
253.00	21.10	22.14
125.00	6.90	7.06
0.00	0.00	0.00

Quantitation Report (Qedit)

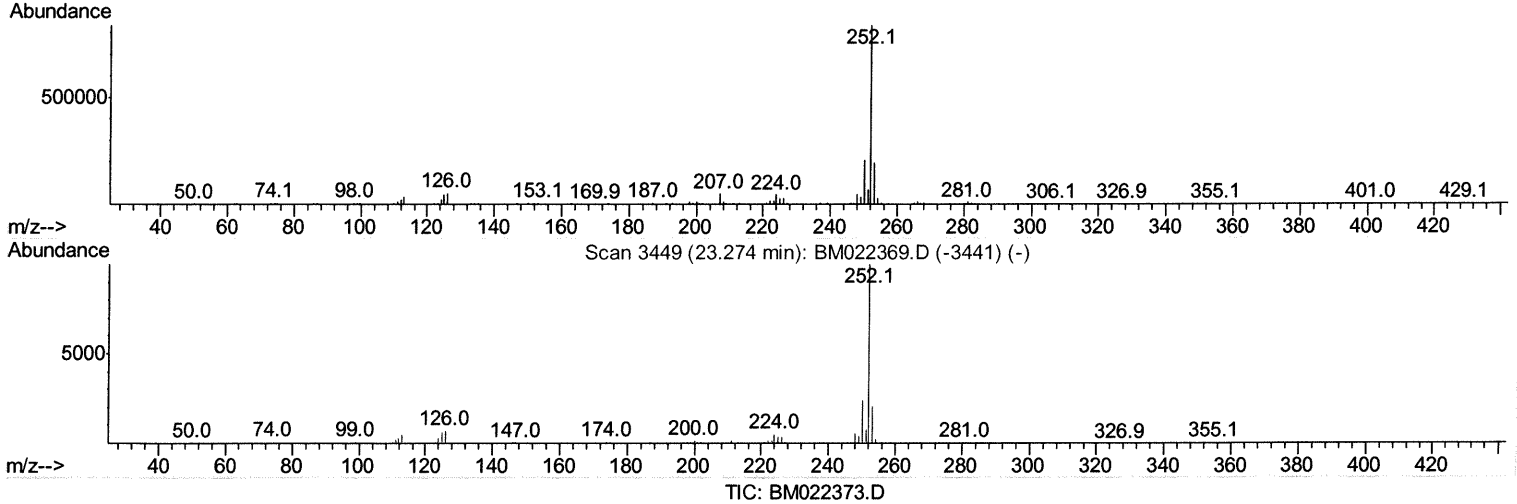
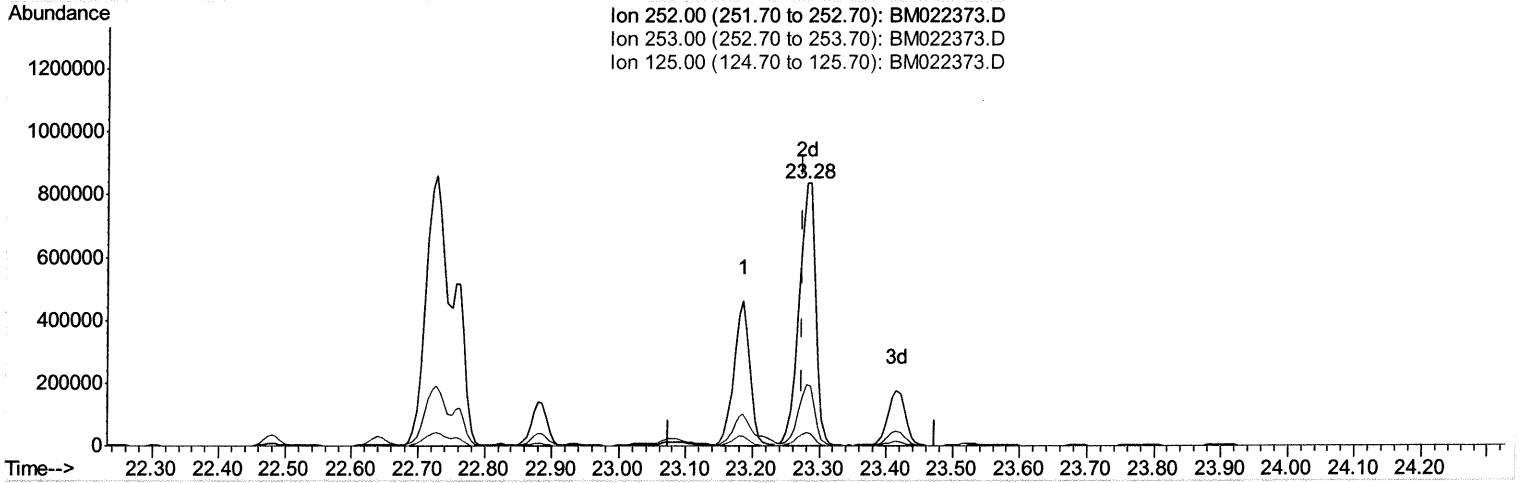
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(90) Benzo(a)pyrene (C)

23.280min (+0.006) 120.73ng/ul m *JU 08/28/19*

response 1431876

Ion	Exp%	Act%
252.00	100	100
253.00	21.10	23.37
125.00	6.90	5.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

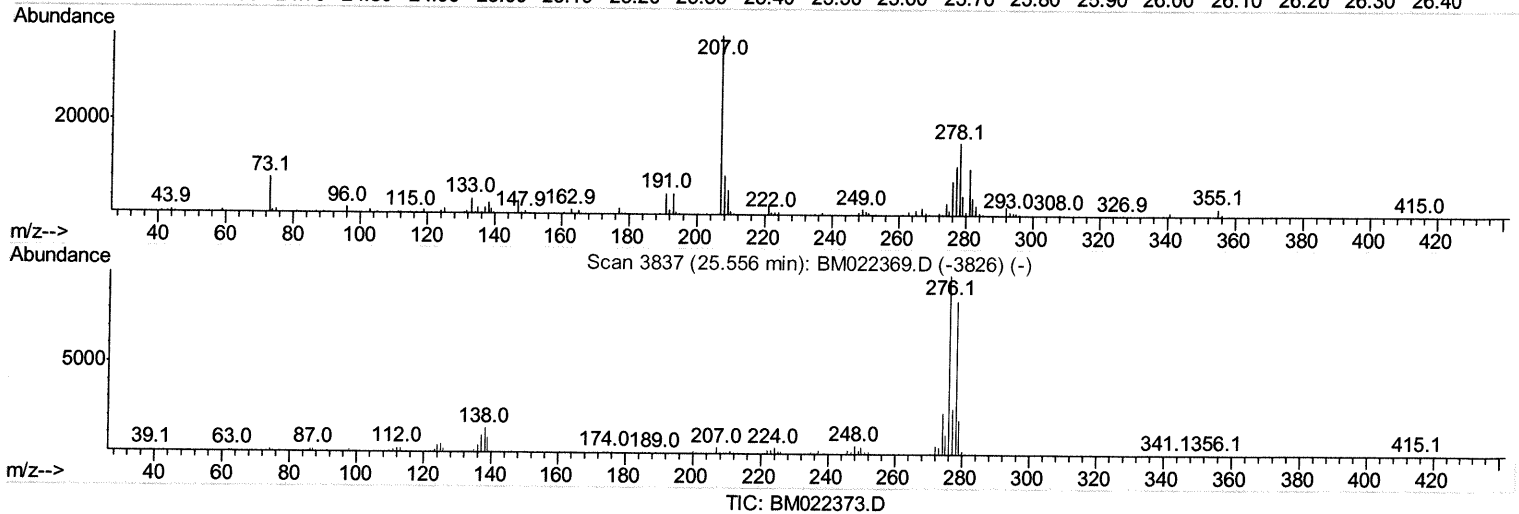
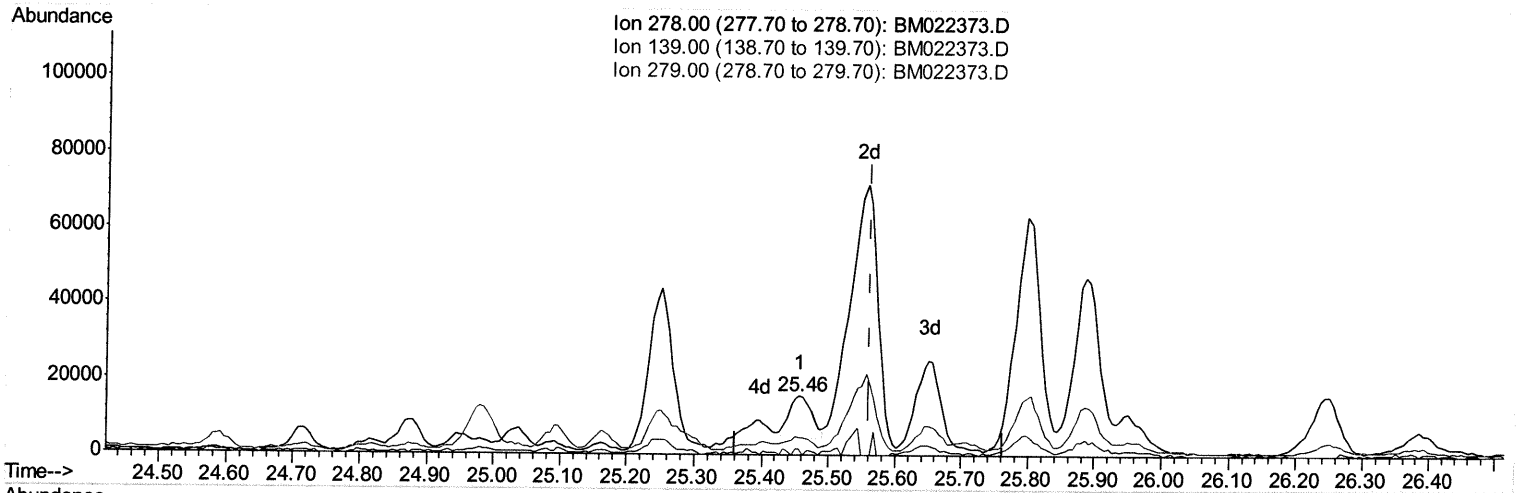
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration



(92) Dibenzo(a,h)anthracene

25.456min (-0.106) 2.21ng/ul

response 25830

Ion	Exp%	Act%
278.00	100	100
139.00	9.60	11.49
279.00	23.80	28.51
0.00	0.00	0.00

Quantitation Report (Qedit)

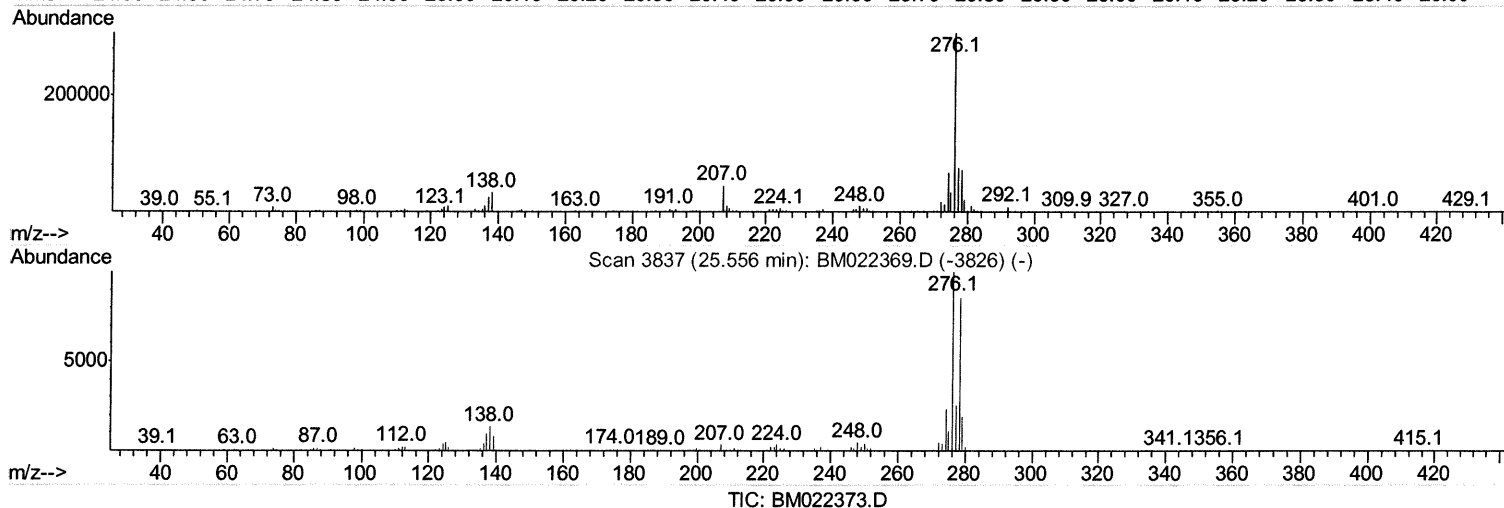
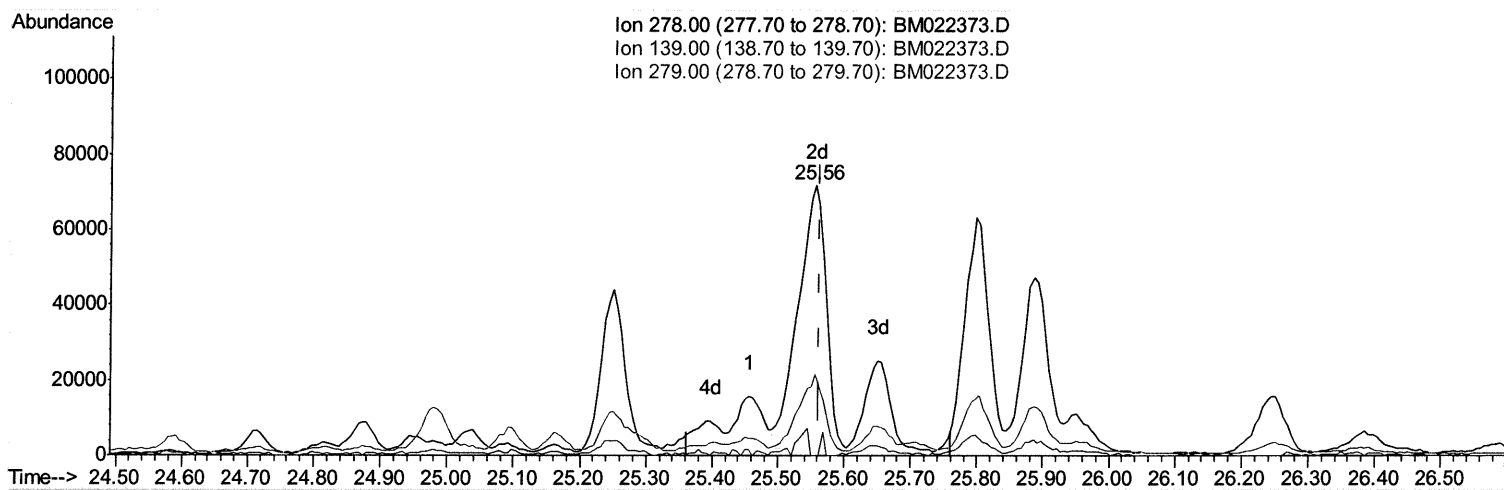
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AG7

Manual Integrations
APPROVED

mohammad
8/28/2019 11:32:46 PM

Quant Time: Aug 28 02:29:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 27 17:04:34 2019
Response via : Initial Calibration



(92) Dibenzo(a,h)anthracene

25.556min (-0.006) 17.51ng/ul m

JU
08/28/19

response 204695

Ion	Exp%	Act%
278.00	100	100
139.00	9.60	0.00#
279.00	23.80	29.83#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022373.D
 Acq On : 27 Aug 2019 19:00
 Operator : HP/JU
 Sample : K4242-02 5X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG7

Manual Integrations
 APPROVED

mohammad
 8/28/2019 11:32:46 PM

Quant Time: Aug 28 04:51:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.54	152	25878	20.00	ng/ul	-0.01
18) Naphthalene-d8	10.31	136	110717	20.00	ng/ul	-0.02
35) Acenaphthene-d10	14.20	164	77115	20.00	ng/ul	-0.01
61) Phenanthrene-d10	16.96	188	175274	20.00	ng/ul	-0.01
77) Chrysene-d12	21.18	240	205983	20.00	ng/ul	0.00
85) Perylene-d12	23.37	264	178877	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	6.76	99	5699	2.55	ng/ul	0.01
7) Bis-(2-Chloroethyl) ether-d	6.91	67	3485	2.68	ng/ul	0.00
9) 2-Chlorophenol-d4	7.09	132	5315	2.95	ng/ul	0.00
13) 4-Methylphenol-d8	8.28	113	5405m →	2.79	ng/ul →	0.00 Ju 08/28/19
19) Nitrobenzene-d5	8.72	128	2238	2.71	ng/ul	0.00
22) 2-Nitrophenol-d4	9.43	143	2416m →	2.51	ng/ul	0.00 Ju 08/28/19
26) 2,4-Dichlorophenol-d3	9.99	165	5860m →	3.00	ng/ul	0.03 Ju 08/28/19
29) 4-Chloroaniline-d4	10.52	131	4914m →	2.07	ng/ul	0.03 Ju 08/28/19
43) Dimethylphthalate-d6	13.63	166	24600	3.62	ng/ul	0.00
46) Acenaphthylene-d8	13.89	160	24577	3.36	ng/ul	0.00
51) 4-Nitrophenol-d4	14.56	143	615m →	0.61	ng/ul →	0.09 Ju 08/28/19
57) Fluorene-d10	15.20	176	21379	3.80	ng/ul	-0.01
62) 4,6-Dinitro-2-methylphenol	15.40	200	1039	0.77	ng/ul	0.02
70) Anthracene-d10	17.06	188	36891	3.97	ng/ul	-0.01
78) Pyrene-d10	19.37	212	50380	4.71	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.23	264	37282	3.79	ng/ul	0.00

Target Compounds

					Ovalue
14) Acetophenone	8.40	105	4536	1.356	ng/ul# 76
28) Naphthalene	10.36	128	48184	7.886	ng/ul 98
34) 2-Methylnaphthalene	12.00	142	13983	2.970	ng/ul 99
49) Acenaphthene	14.26	153	129707	24.086	ng/ul 100
53) Dibenzofuran	14.60	168	91695	11.432	ng/ul 99
58) Fluorene	15.26	166	141321	20.919	ng/ul 99
69) Phenanthrene	17.02	178	4548703	433.801	ng/ul 99
71) Anthracene	17.10	178	724549	66.402	ng/ul 100
74) Carbazole	17.39	167	263118	26.697	ng/ul 99
76) Fluoranthene	19.05	202	7262164	459.591	ng/ul# 94
79) Pyrene	19.42	202	5452001	408.925	ng/ul# 91
82) Benzo(a)anthracene	21.17	228	2061581	132.978	ng/ul 98
84) Chrysene	21.22	228	1661194	114.600	ng/ul 97
87) Benzo(b)fluoranthene	22.73	252	1908565	153.382	ng/ul# 97
88) Benzo(k)fluoranthene	22.76	252	565973	46.903	ng/ul 99
90) Benzo(a)pyrene	23.28	252	1431876m →	120.726	ng/ul → Ju 08/28/19
91) Indeno(1,2,3-cd)pyrene	25.56	276	785049	57.001	ng/ul# 95
92) Dibenzo(a,h)anthracene	25.56	278	204695m →	17.507	ng/ul → Ju 08/28/19
93) Benzo(g,h,i)perylene	26.23	276	696529	66.293	ng/ul 95

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