

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\  
Data File : BM023999.D  
Acq On    : 04 Dec 2019   13:37  
Operator  : JU  
Sample    : K4649-01 5X  
Misc      :  
ALS Vial  : 7      Sample Multiplier: 1
```

mohammad
12/5/2019 10:50:01 AM

TIC: BM023999.D

Quantitation Report (Qedit)

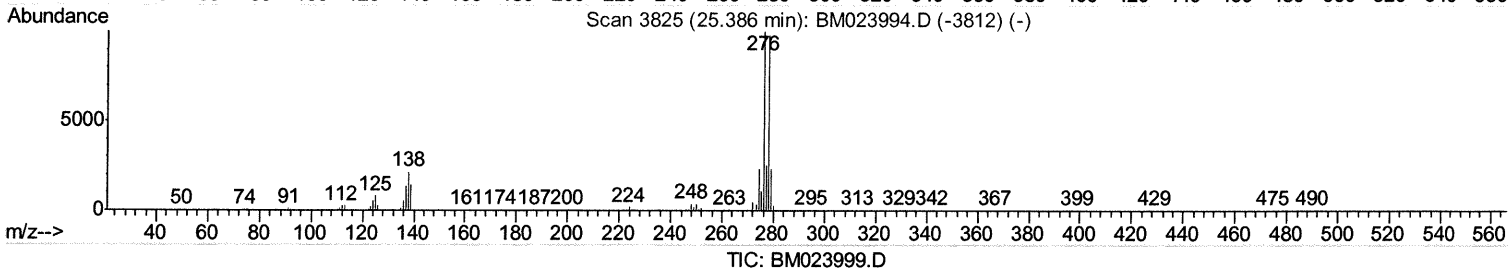
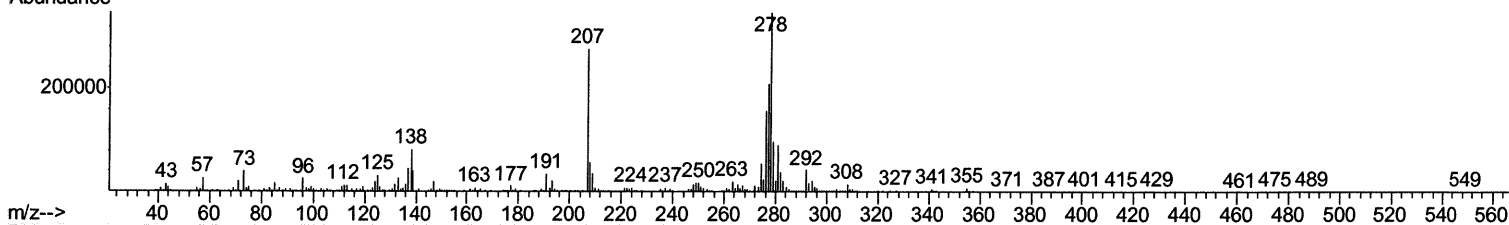
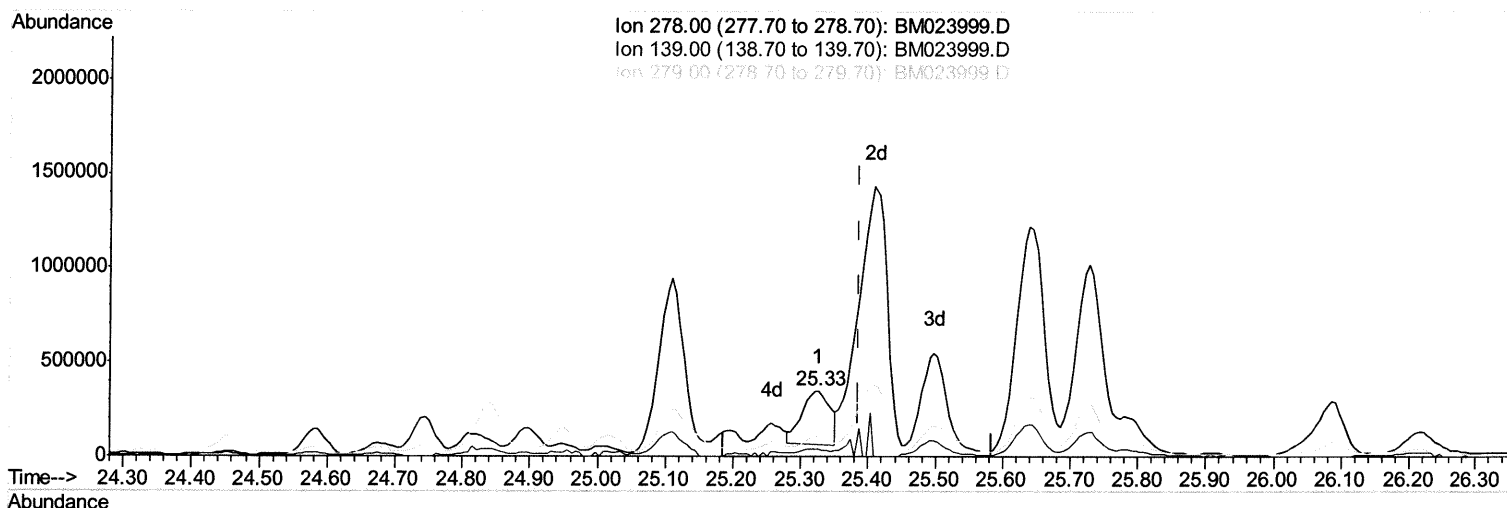
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A5167

Manual Integrations
 APPROVED

mohammad
 12/5/2019 10:50:01 AM

Quant Time: Dec 04 15:10:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 04 13:35:21 2019
 Response via : Initial Calibration



(93) Dibenzo(a,h)anthracene

25.327min (-0.059) 5.59ng/ul

response 820698

Ion	Exp%	Act%
278.00	100	100
139.00	14.50	12.05
279.00	23.90	27.88
0.00	0.00	0.00

Quantitation Report (Qedit)

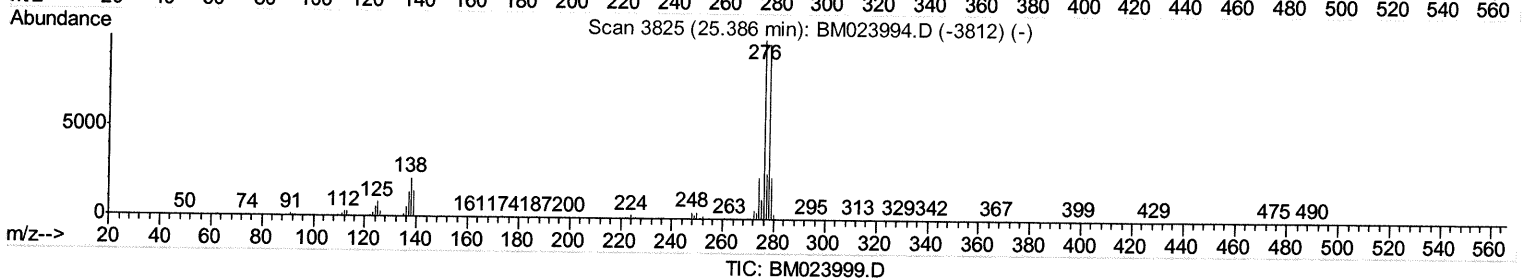
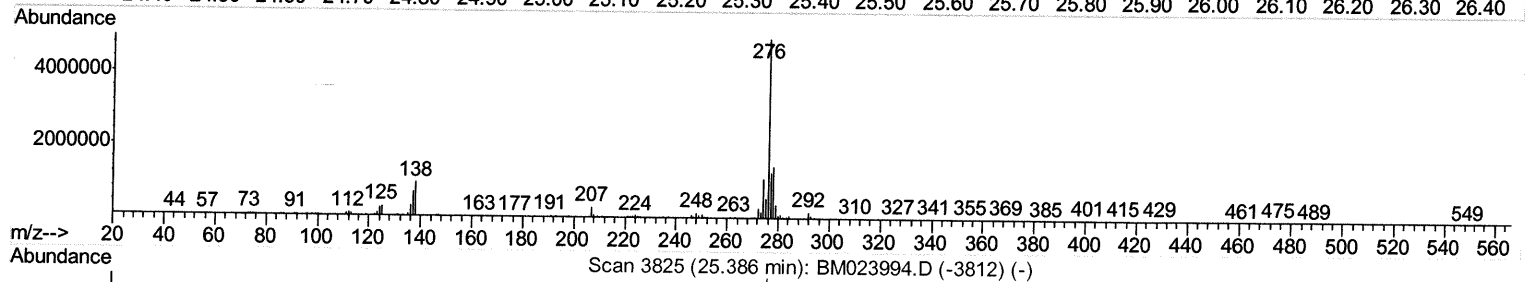
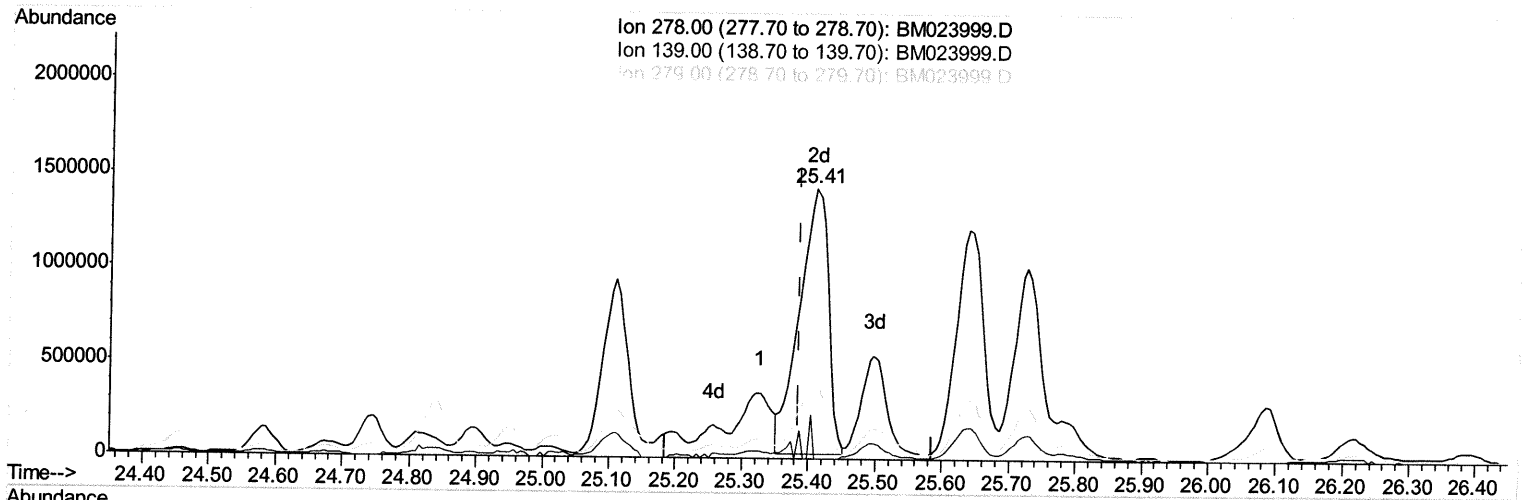
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Manual Integrations
APPROVED

mohammad
12/5/2019 10:50:01 AM

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 04 13:35:21 2019
Response via : Initial Calibration



(93) Dibenzo(a,h)anthracene

25.409min (+0.023) 28.56ng/ul m JU 12/10/19

response 4193682

Ion	Exp%	Act%
278.00	100	100
139.00	14.50	0.00#
279.00	23.90	26.46
0.00	0.00	0.00

Quantitation Report (Qedit)

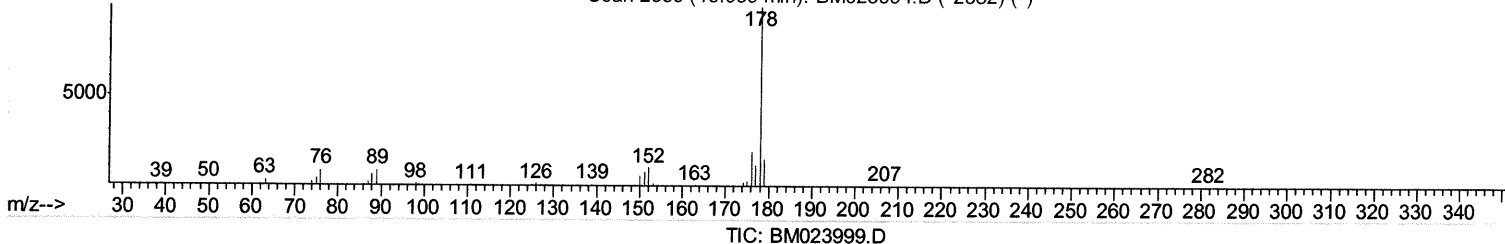
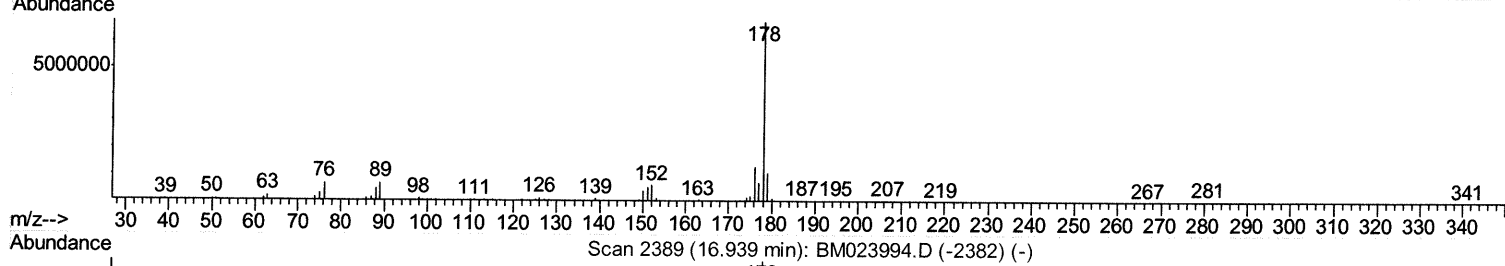
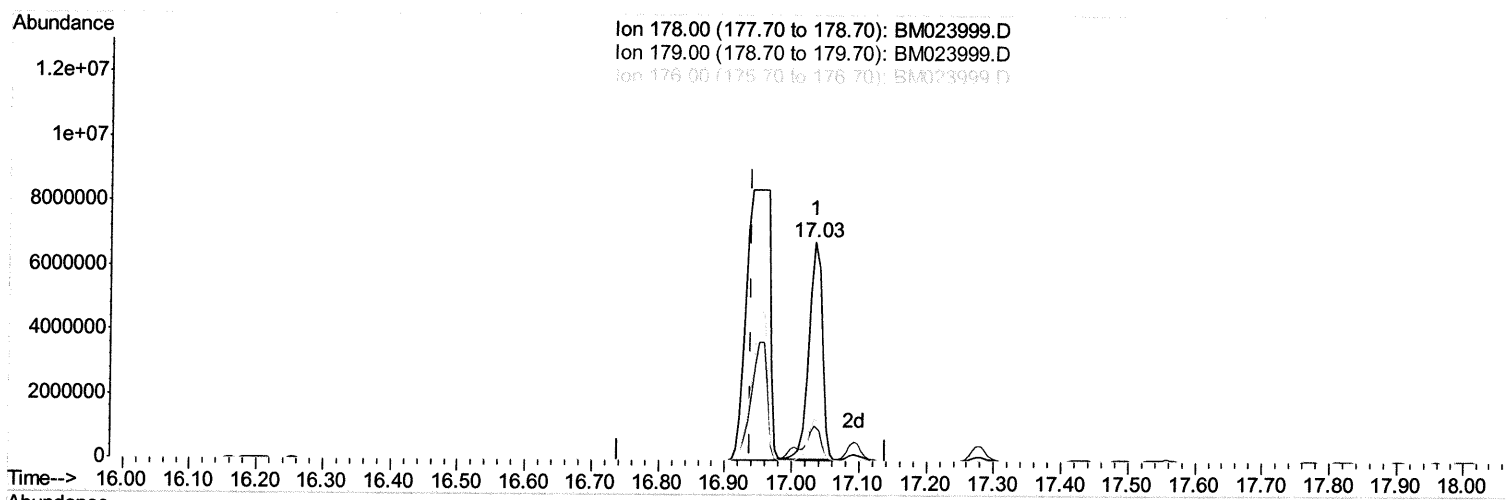
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Manual Integrations
APPROVED

mohammad
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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration



(70) Phenanthrene

17.033min (+0.094) 93.63ng/ul

response 9227352

Ion	Exp%	Act%
178.00	100	100
179.00	15.00	15.97
176.00	18.90	19.01
0.00	0.00	0.00

Quantitation Report (Qedit)

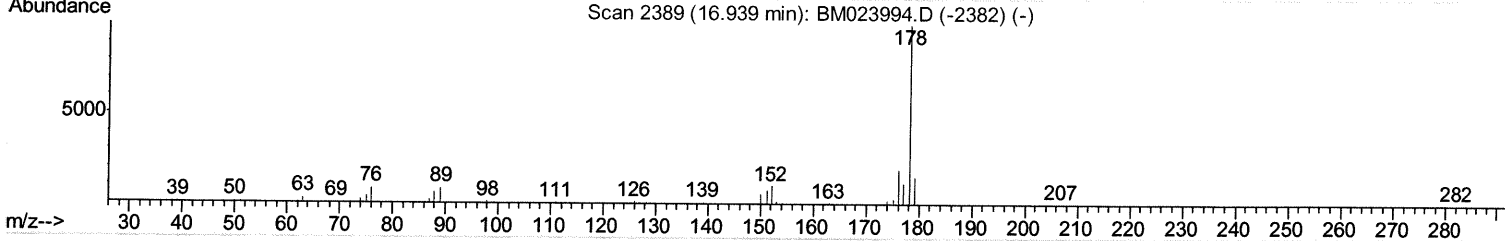
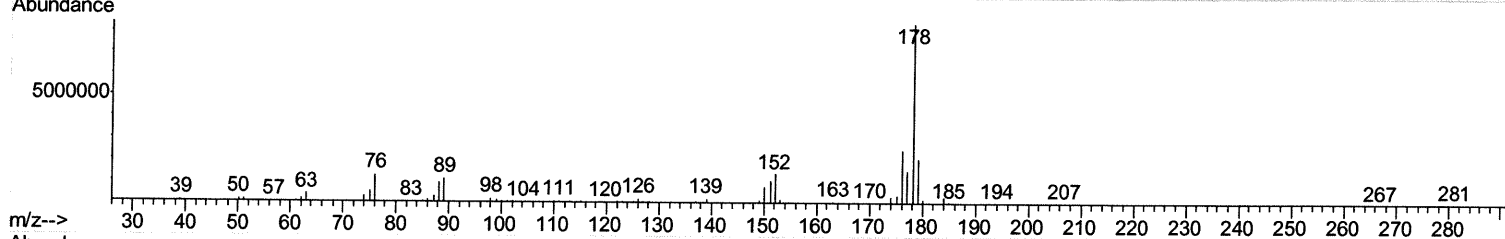
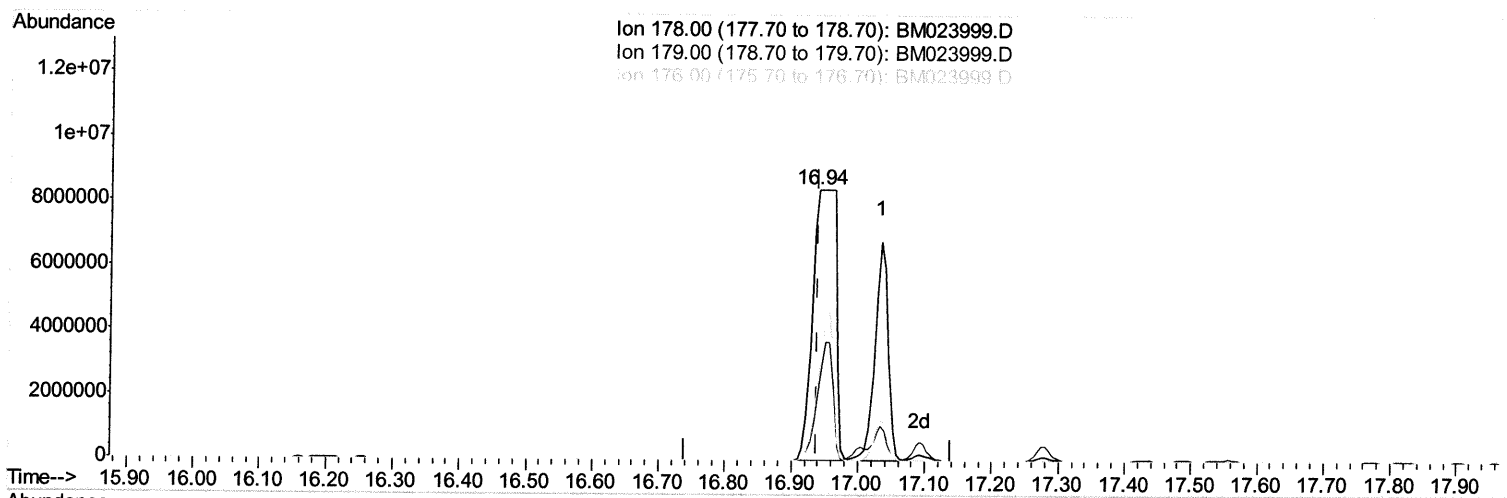
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Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A5167

Manual Integrations
APPROVED

mohammad
12/5/2019 10:50:01 AM

Quant Time: Dec 04 15:10:27 2019
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QLast Update : Wed Dec 04 13:35:21 2019
Response via : Initial Calibration



(70) Phenanthrene

16.939min (-0.000) 206.18ng/ul m JU 12/10/19

response 20319884

Ion	Exp%	Act%
178.00	100	100
179.00	15.00	24.51#
176.00	18.90	29.60#
0.00	0.00	0.00

Quantitation Report (Qedit)

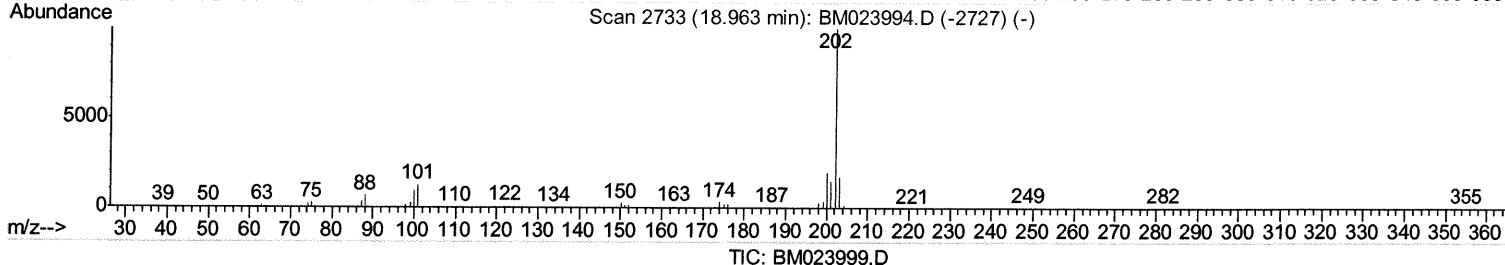
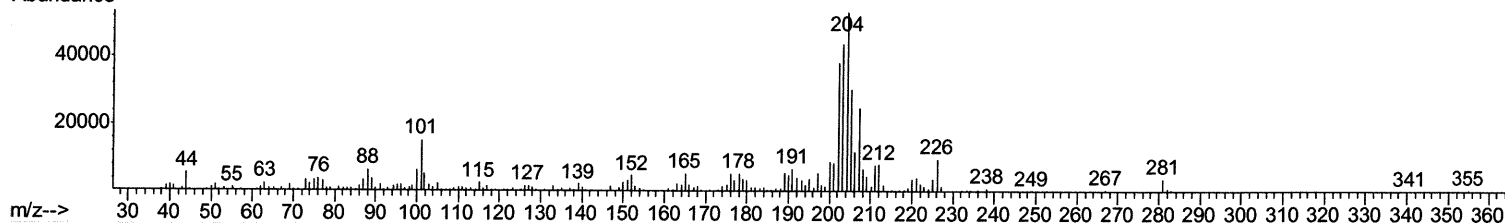
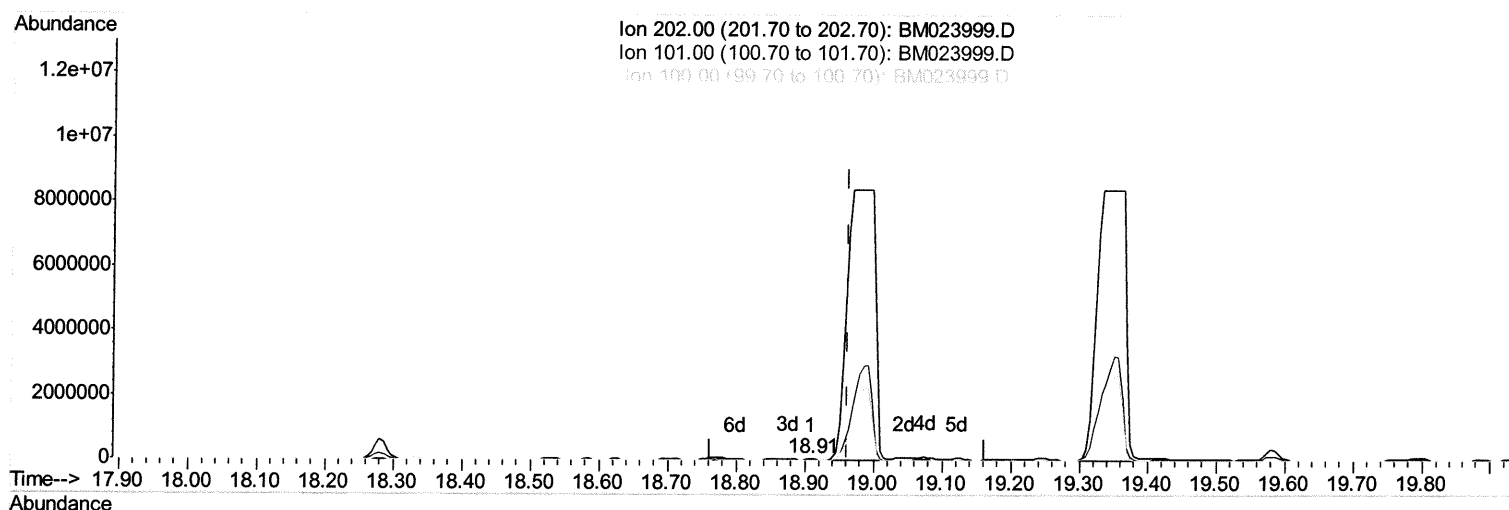
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A5167

Manual Integrations
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TIC: BM023999.D

(77) Fluoranthene (C)

18.910min (-0.053) 0.33ng/ul

response 34953

Ion	Exp%	Act%
202.00	100	100
101.00	12.60	39.49#
100.00	9.70	16.95#
0.00	0.00	0.00

Quantitation Report (Qedit)

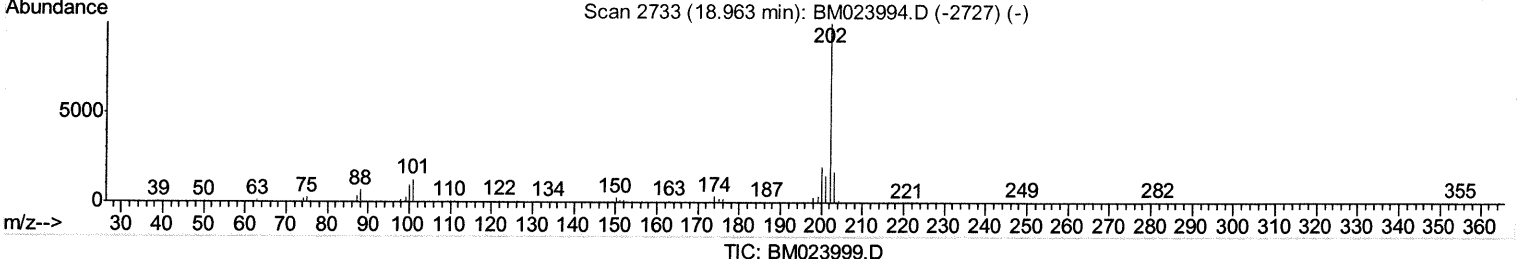
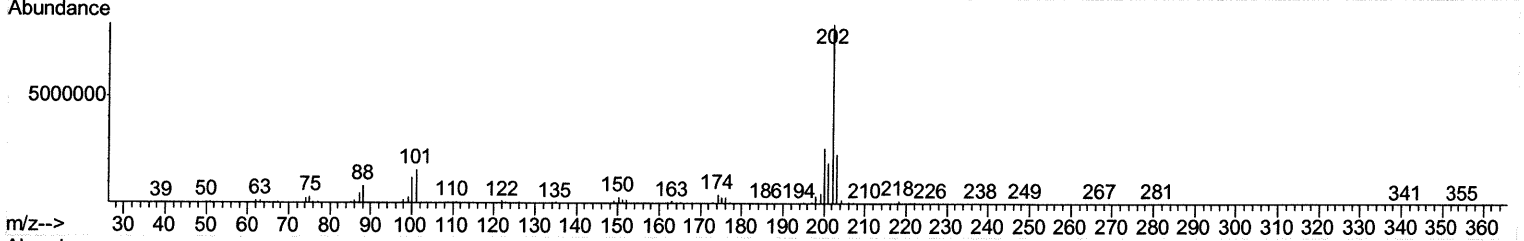
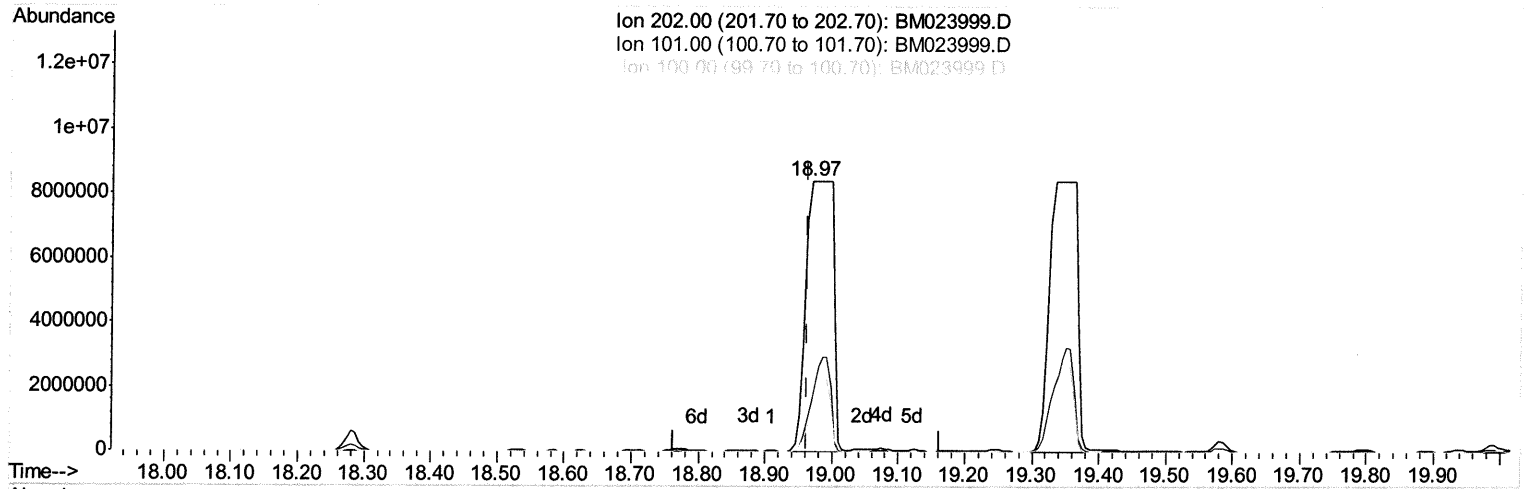
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A5167

Manual Integrations
 APPROVED

mohammad
 12/5/2019 10:50:01 AM

Quant Time: Dec 04 15:10:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
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 QLast Update : Wed Dec 04 13:35:21 2019
 Response via : Initial Calibration



(77) Fluoranthene (C)

18.968min (+0.006) 221.83ng/ul m JU 12/10/19

response 23444764

Ion	Exp%	Act%
202.00	100	100
101.00	12.60	18.59#
100.00	9.70	14.36#
0.00	0.00	0.00

Quantitation Report (Qedit)

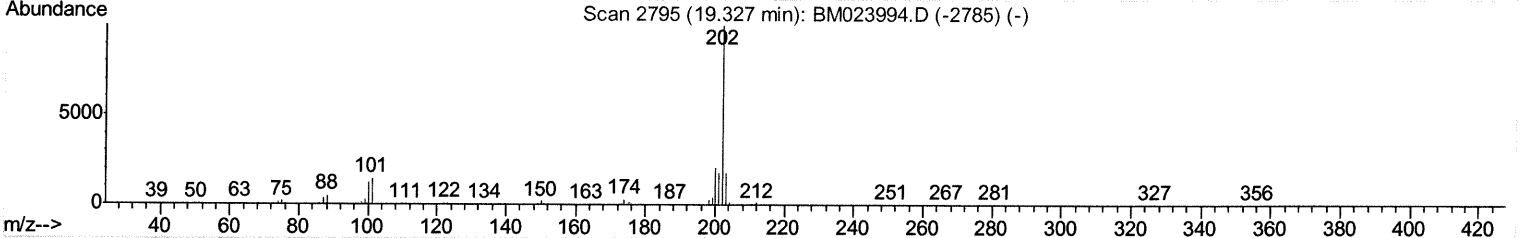
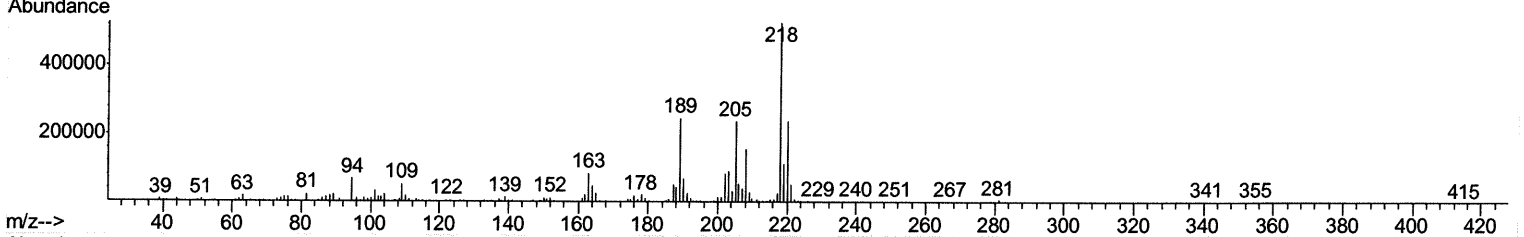
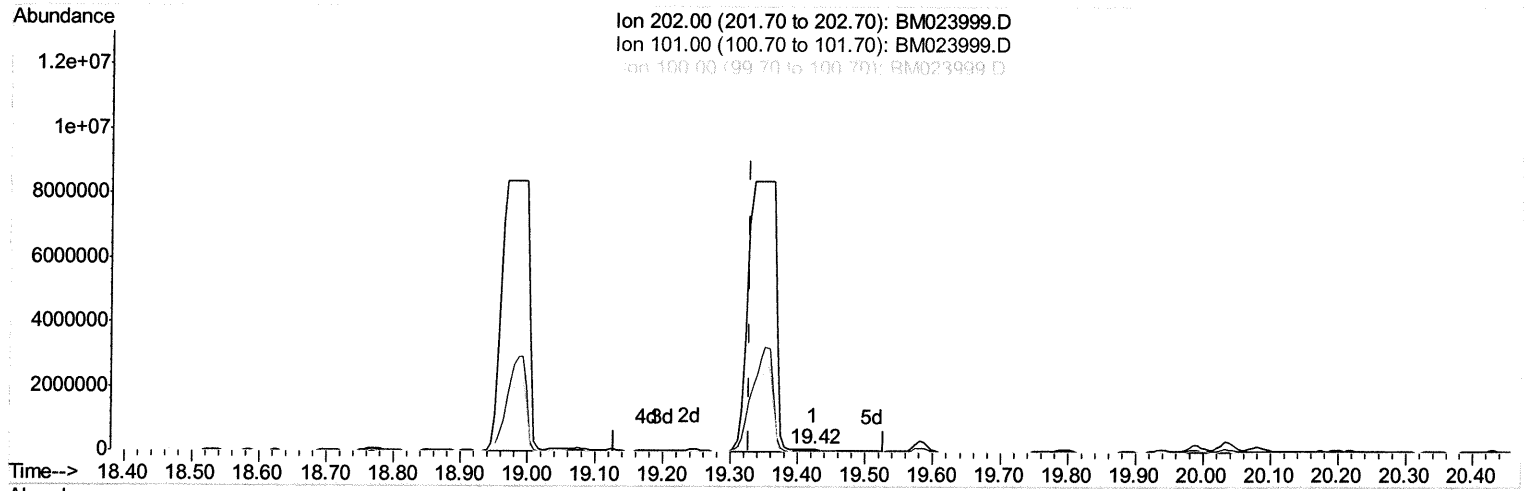
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A5167

Manual Integrations
 APPROVED

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 12/5/2019 10:50:01 AM

Quant Time: Dec 04 15:10:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 04 13:35:21 2019
 Response via : Initial Calibration



TIC: BM023999.D

(80) Pyrene

19.421min (+0.094) 1.07ng/ul

response 137733

Ion	Exp%	Act%
202.00	100	100
101.00	14.70	40.49#
100.00	12.20	11.35
0.00	0.00	0.00

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\  
Data File : BM023999.D  
Acq On    : 04 Dec 2019   13:37  
Operator  : JU  
Sample    : K4649-01 5X  
Misc      :  
ALS Vial  : 7      Sample Multiplier: 1
```

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12/5/2019 10:50:01 AM

Abundance

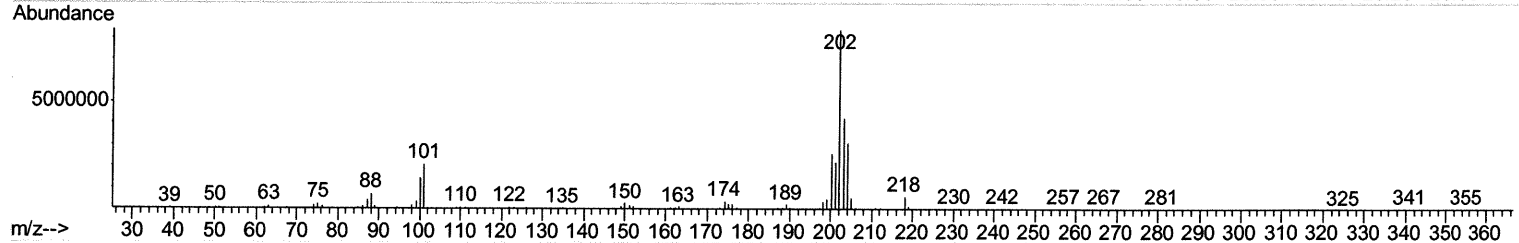
Ion 202.00 (201.70 to 202.70): BM023999.D
Ion 101.00 (100.70 to 101.70): BM023999.D
Ion 100.00 (99.70 to 100.70): BM023999.D

1.2e+07
1e+07
8000000
6000000
4000000
2000000
0

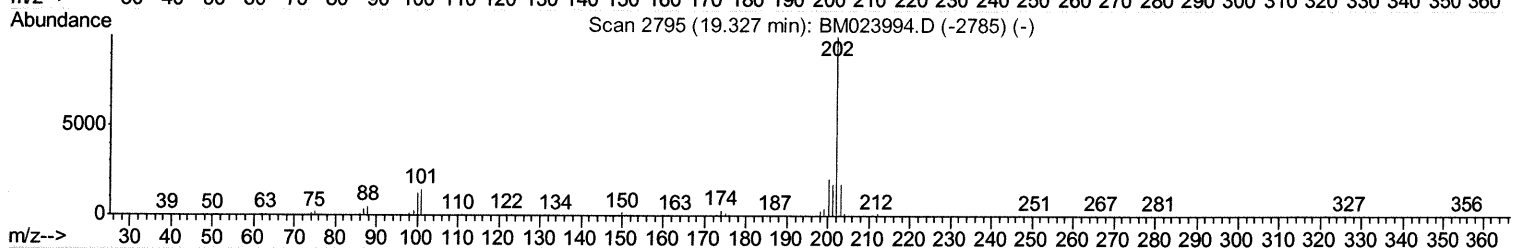
19.33
4d 2d
1
5d

Time--> 18.30 18.40 18.50 18.60 18.70 18.80 18.90 19.00 19.10 19.20 19.30 19.40 19.50 19.60 19.70 19.80 19.90 20.00 20.10 20.20 20.30

Time (min)	Ion 202.00 Abundance	Ion 101.00 Abundance	Ion 100.00 Abundance
18.30	~1000000	~1000000	~1000000
18.90	~1000000	~1000000	~1000000
19.00	~8000000	~2000000	~1000000
19.10	~1000000	~1000000	~1000000
19.20	~1000000	~1000000	~1000000
19.30	~8000000	~2000000	~1000000
19.33	~8000000	~2000000	~1000000
19.40	~1000000	~1000000	~1000000
19.50	~1000000	~1000000	~1000000
19.60	~1000000	~1000000	~1000000
19.70	~1000000	~1000000	~1000000
19.80	~1000000	~1000000	~1000000
19.90	~1000000	~1000000	~1000000
20.00	~1000000	~1000000	~1000000
20.10	~1000000	~1000000	~1000000
20.20	~1000000	~1000000	~1000000
20.30	~1000000	~1000000	~1000000



Scan 2795 (19.327 min): BM023994.D (-2785) (-)



TIC: BM023999.D

19.333min (+0.006) 184.70ng/ul m JU 12/10/19

response 23672794

Ion	Exp%	Act%
202.00	100	100
101.00	14.70	24.80#
100.00	12.20	17.42#
0.00	0.00	0.00

Quantitation Report (Qedit)

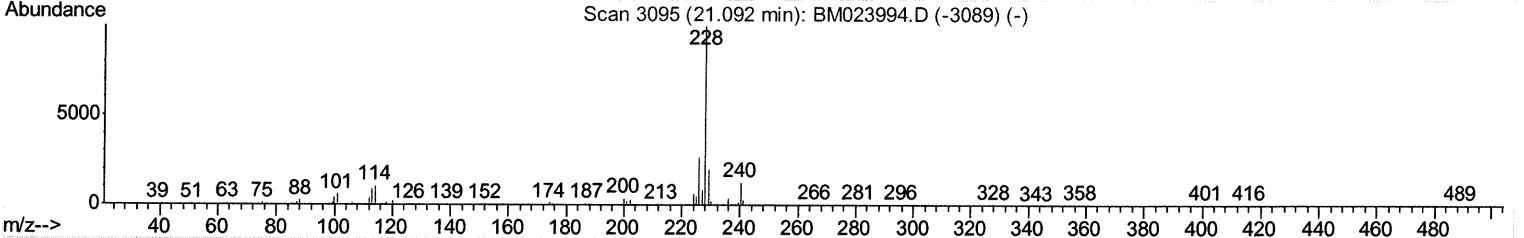
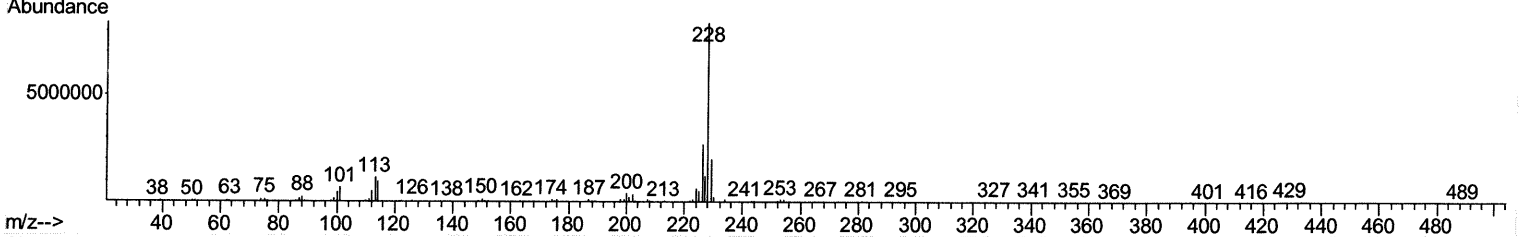
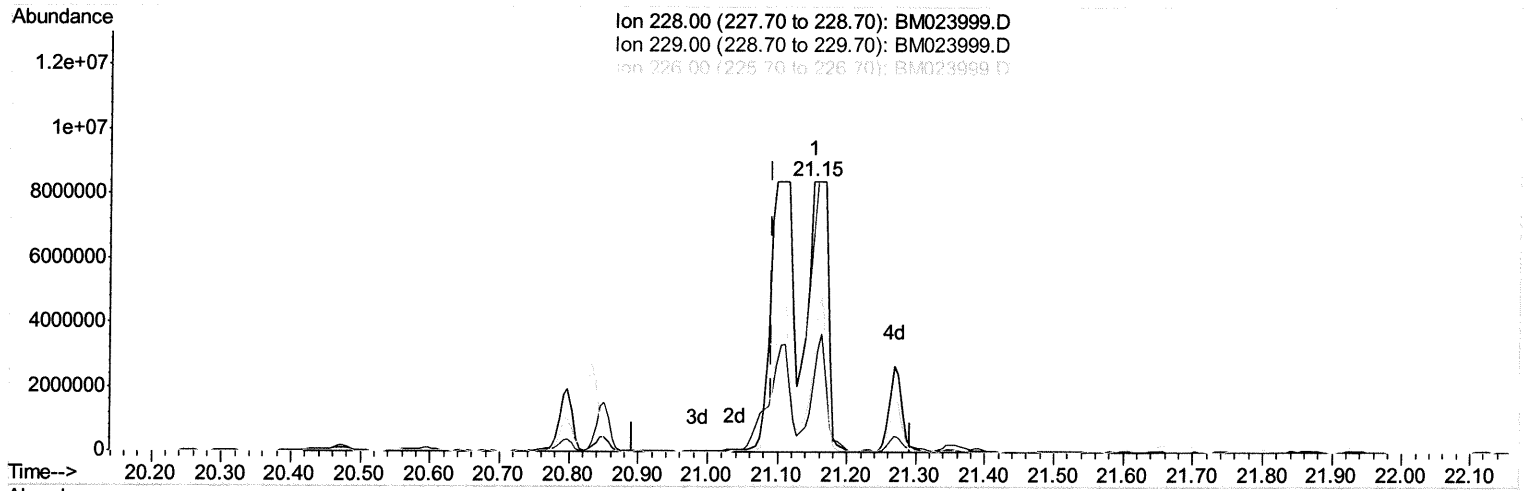
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A5167

Manual Integrations
 APPROVED

mohammad
 12/5/2019 10:50:01 AM

Quant Time: Dec 04 15:10:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 04 13:35:21 2019
 Response via : Initial Calibration



TIC: BM023999.D

(83) Benzo(a)anthracene

21.151min (+0.059) 15.87ng/ul

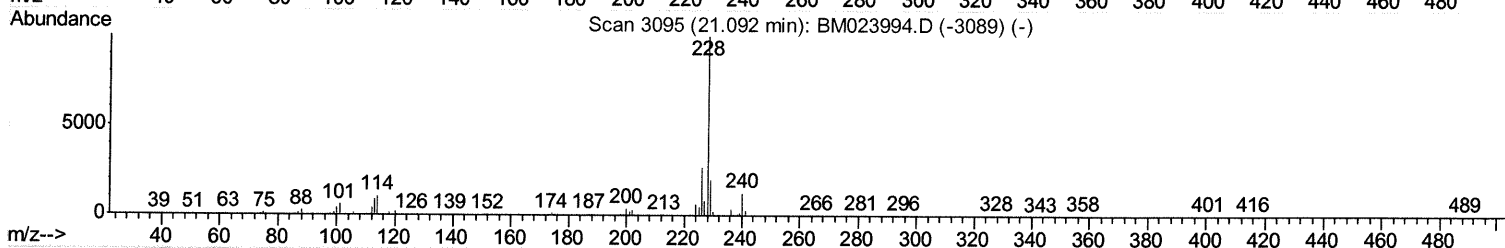
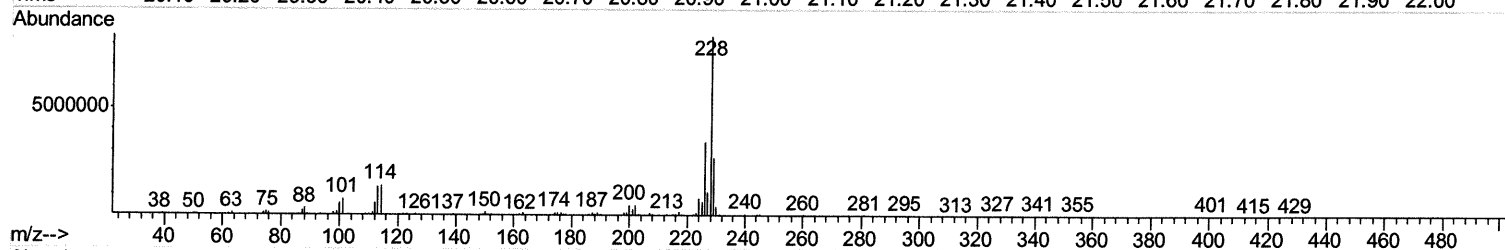
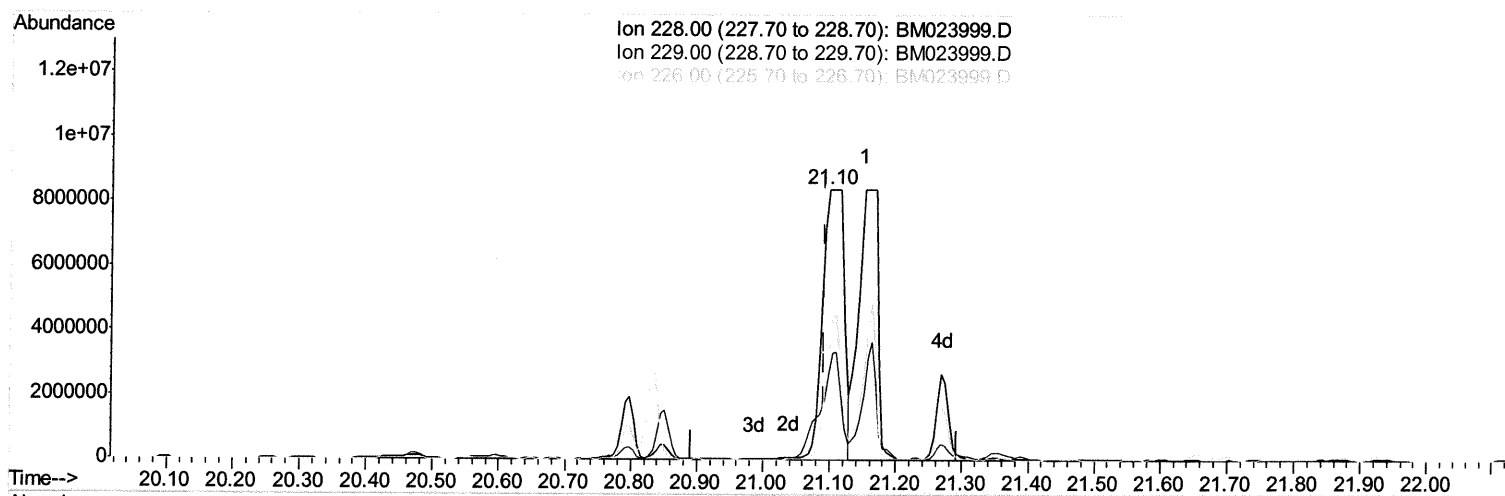
response 2018279

Ion	Exp%	Act%
228.00	100	100
229.00	19.50	24.03#
226.00	26.70	31.93
0.00	0.00	0.00

```
Data Path   : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\  
Data File  : BM023999.D  
Acq On     : 04 Dec 2019   13:37  
Operator   : JU  
Sample     : K4649-01 5X  
Misc      :  
ALS Vial   : 7      Sample Multiplier: 1
```

mohammad
12/5/2019 10:50:01 AM

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Response via : Initial Calibration



TIC: BM023999.D

21.098min (+0.006) 146.64ng/ul m JU 12/10/19

response 18645360

Ion	Exp%	Act%
228.00	100	100
229.00	19.50	31.91#
226.00	26.70	40.94#
0.00	0.00	0.00

Quantitation Report (Qedit)

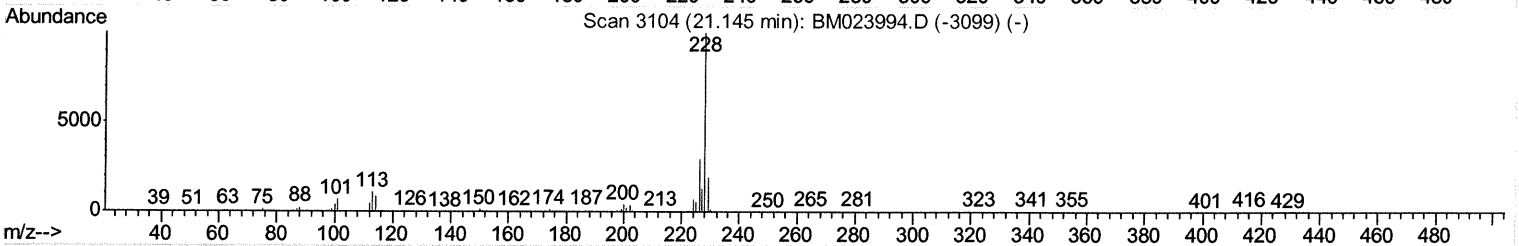
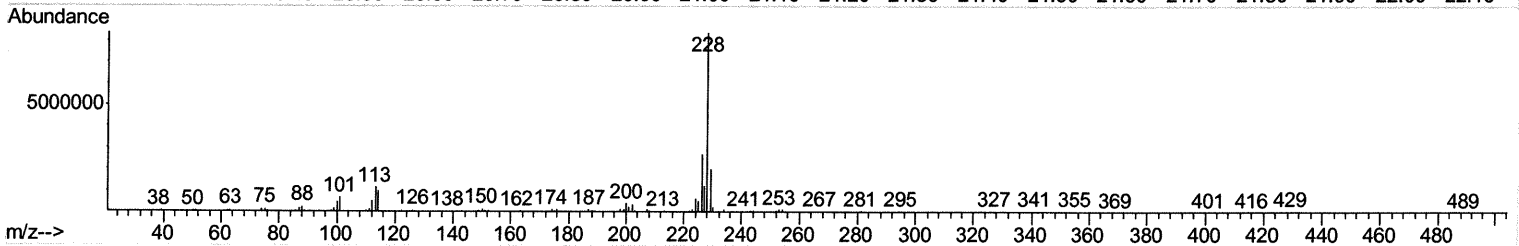
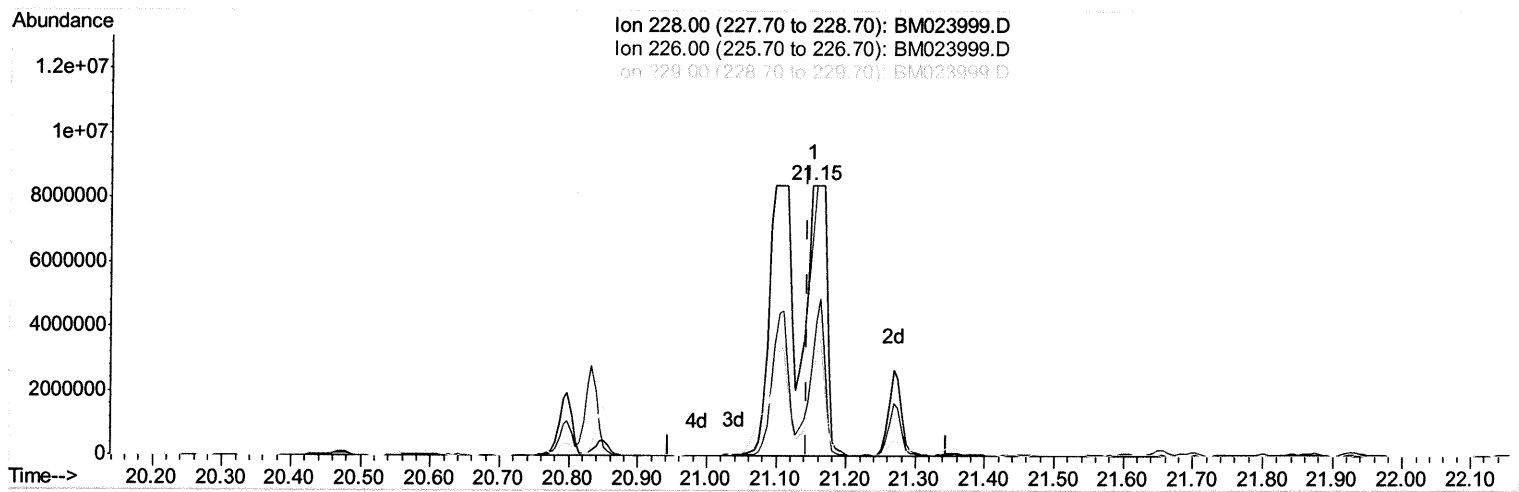
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
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Manual Integrations
 APPROVED

mohammad
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TIC: BM023999.D

(85) Chrysene

21.151min (+0.006) 16.90ng/ul

response 2018279

Ion	Exp%	Act%
228.00	100	100
226.00	29.30	31.93
229.00	19.10	24.03#
0.00	0.00	0.00

Quantitation Report (Qedit)

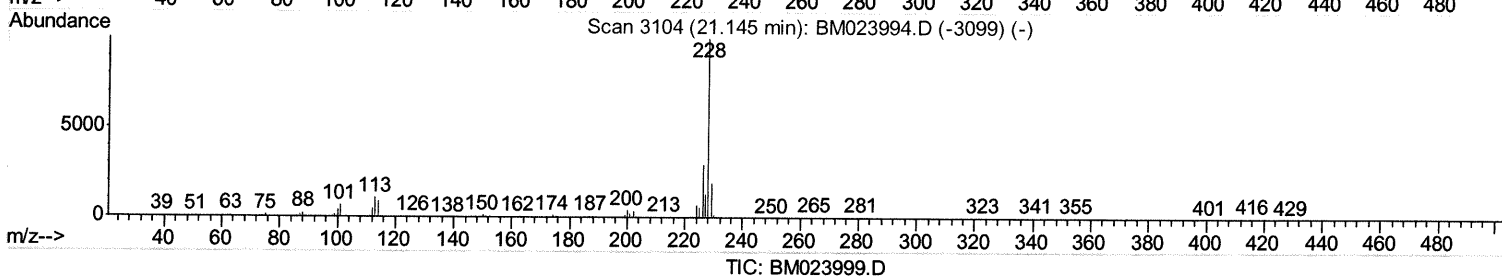
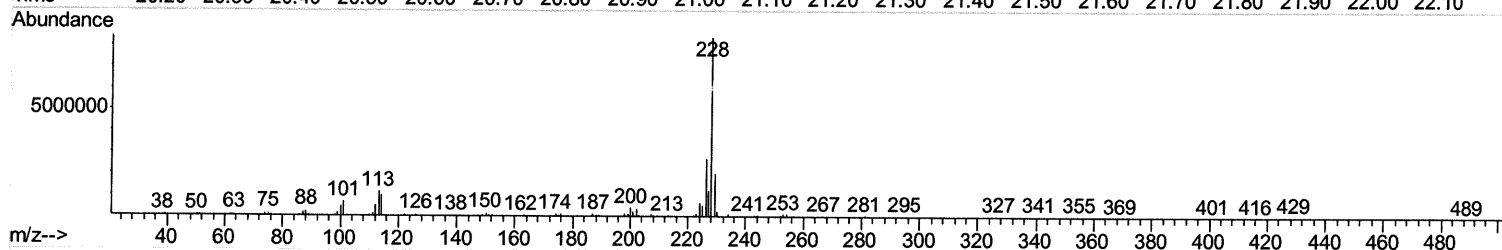
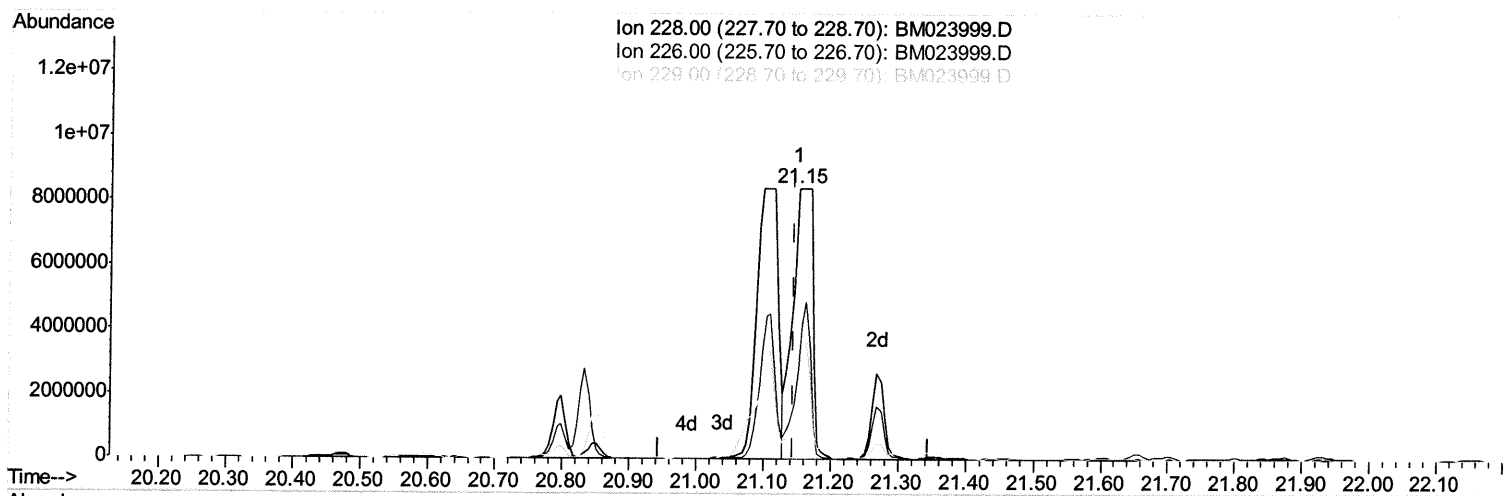
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
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Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
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 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 04 13:35:21 2019
 Response via : Initial Calibration



TIC: BM023999.D

(85) Chrysene

21.151min (+0.006) 144.56ng/ul m J4 12/10/19

response 17260302

Ion	Exp%	Act%
228.00	100	100
226.00	29.30	31.93
229.00	19.10	24.03#
0.00	0.00	0.00

Quantitation Report (Qedit)

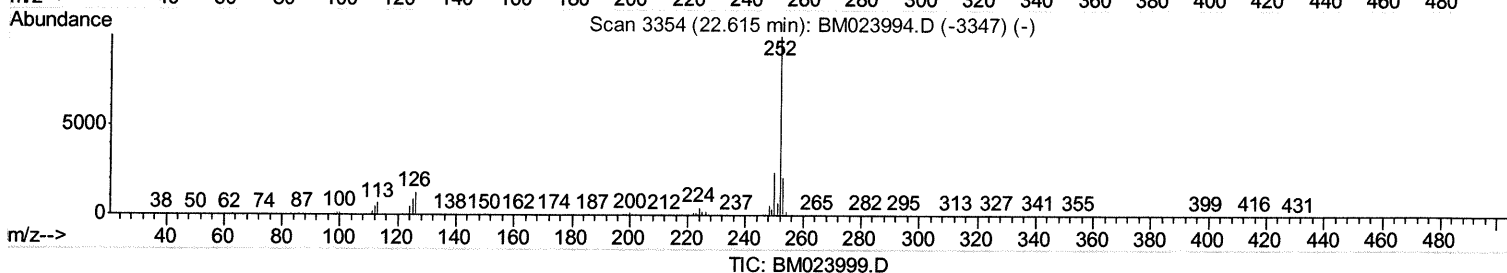
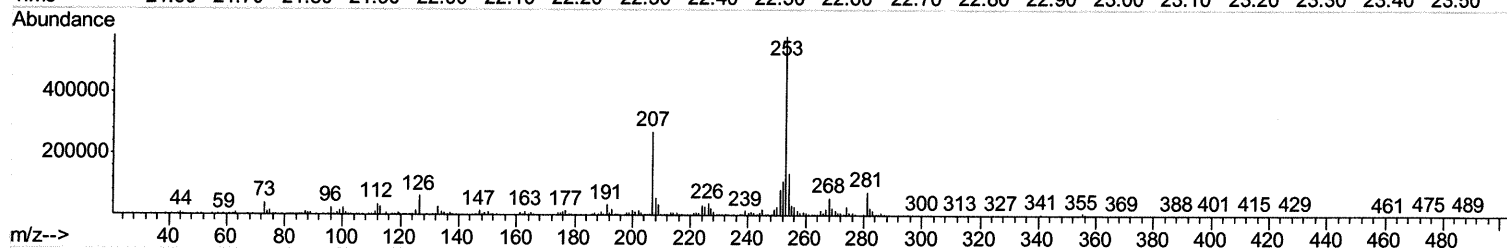
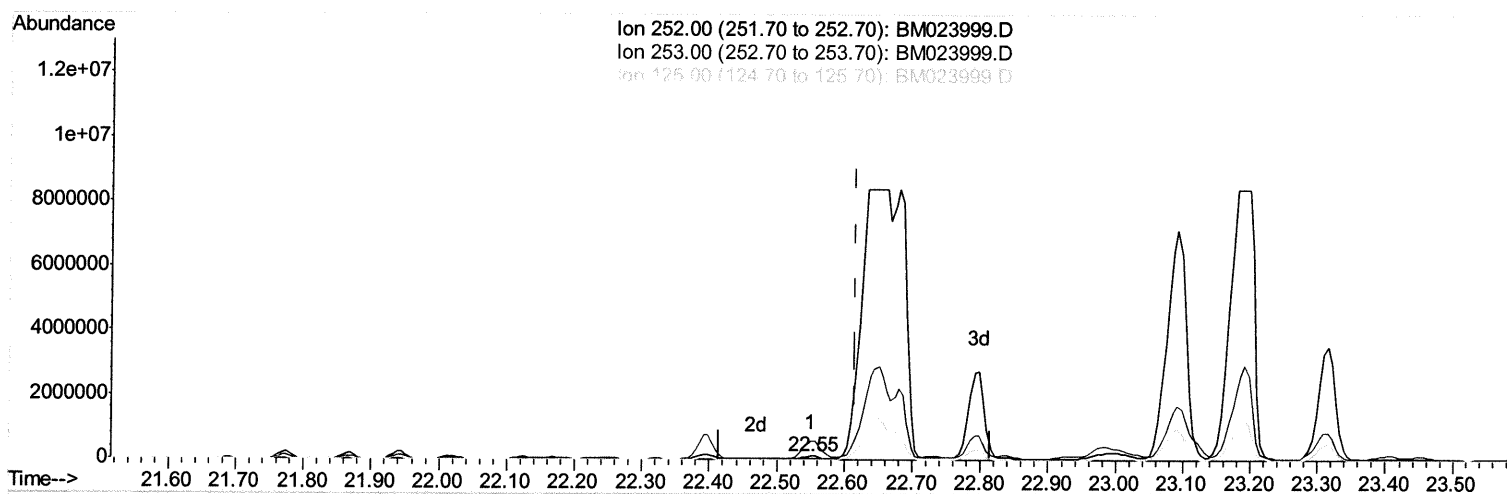
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
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 ALS Vial : 7 Sample Multiplier: 1

Instrument :
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Manual Integrations
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 Response via : Initial Calibration



(88) Benzo(b)fluoranthene

22.551min (-0.065) 1.11ng/ul

response 165346

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	527.60#
125.00	9.30	13.42#
0.00	0.00	0.00

Quantitation Report (Qedit)

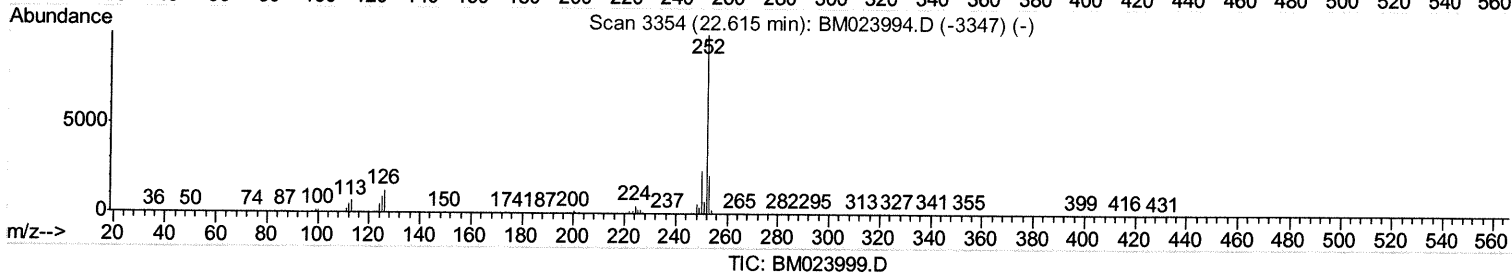
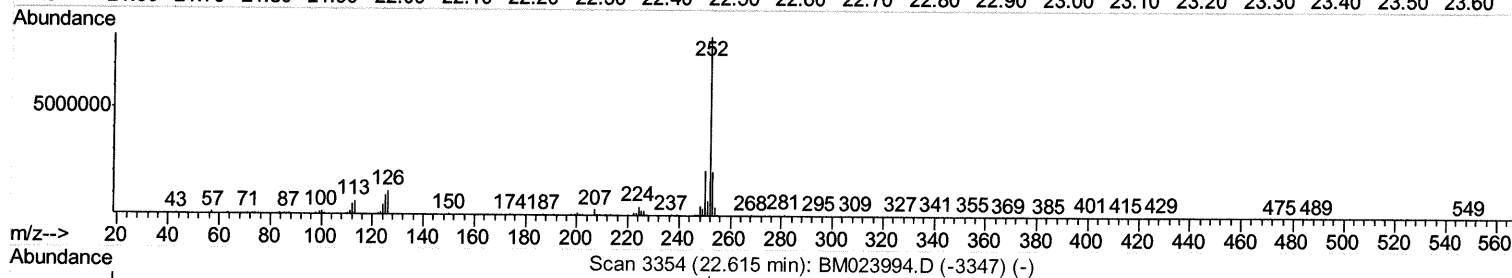
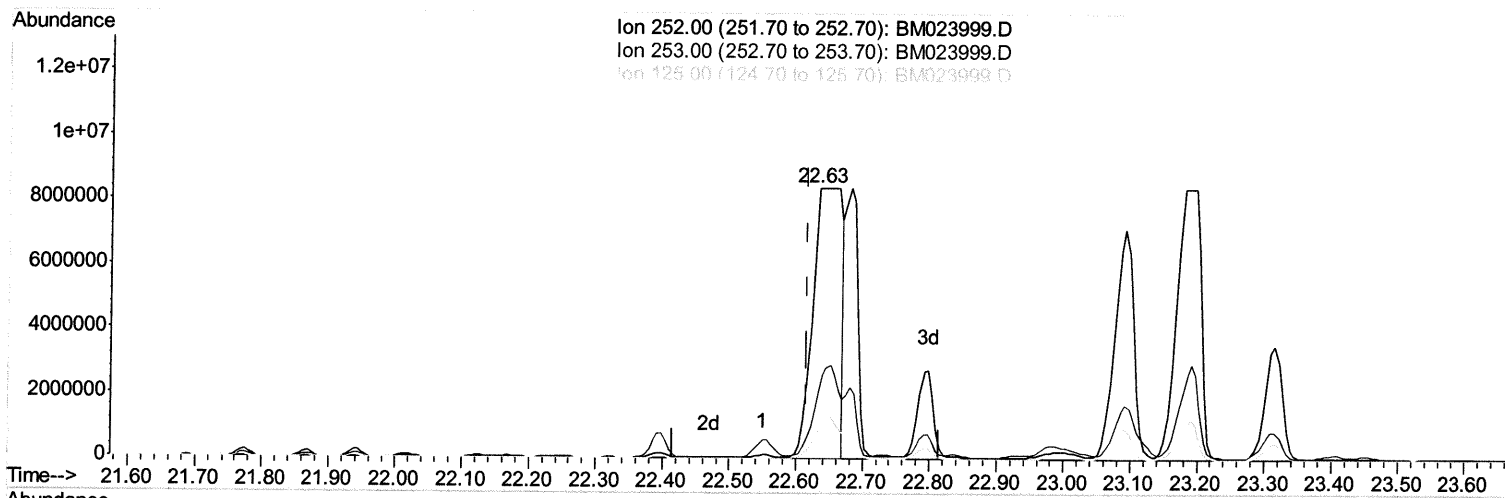
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A5167

Manual Integrations
 APPROVED

mohammad
 12/5/2019 10:50:01 AM

Quant Time: Dec 04 15:10:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 04 13:35:21 2019
 Response via : Initial Calibration



(88) Benzo(b)fluoranthene

22.633min (+0.017) 171.57ng/ul m J4 12/10/19

response 25542982

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	24.34
125.00	9.30	10.67
0.00	0.00	0.00

Quantitation Report (Qedit)

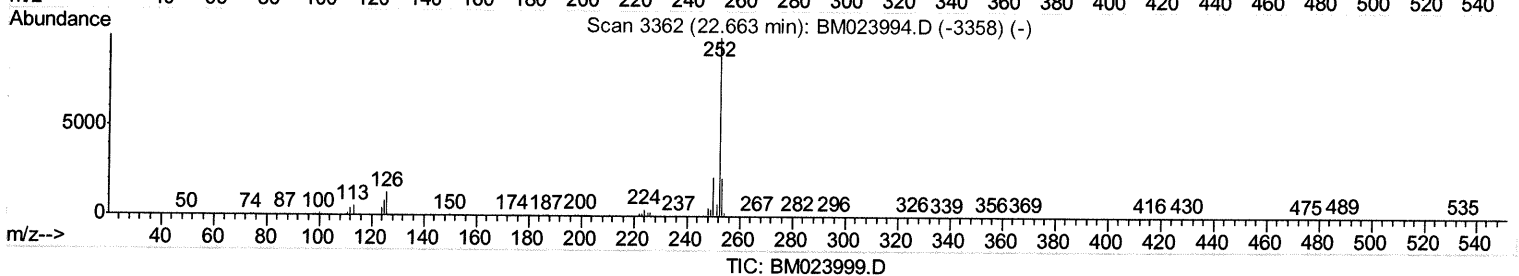
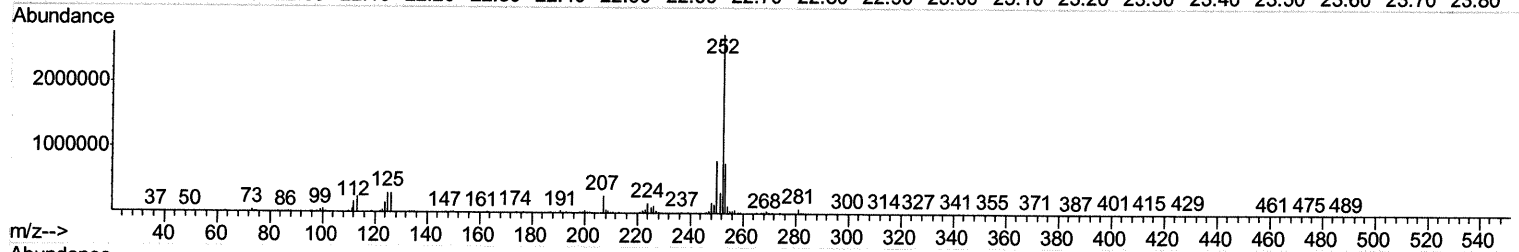
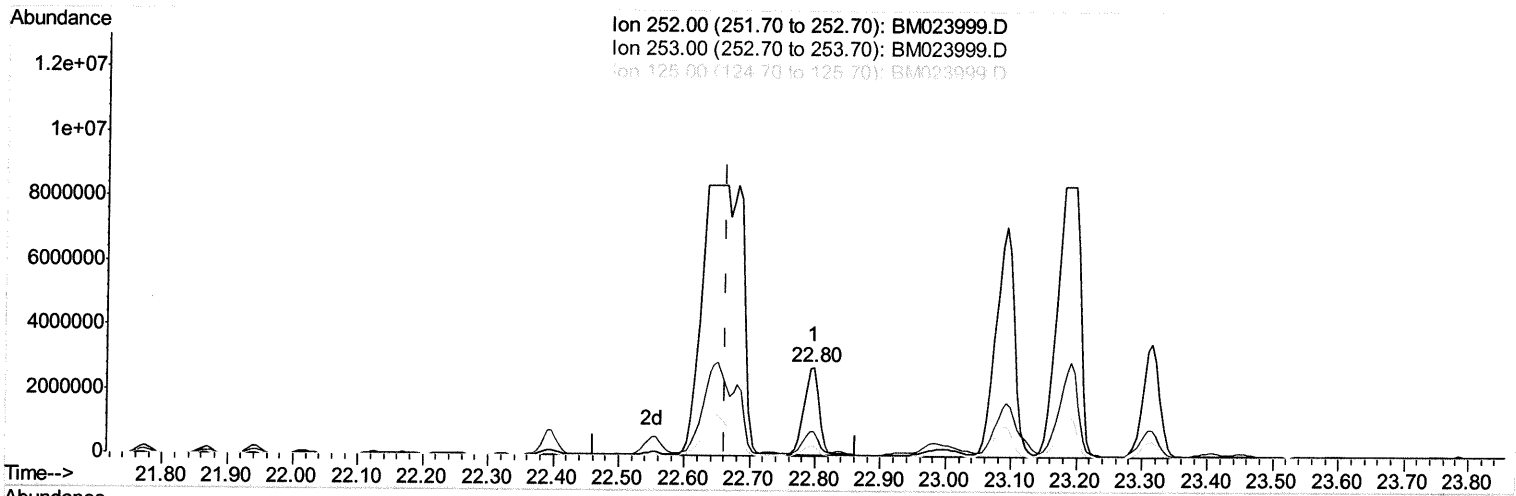
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A5167

Manual Integrations
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TIC: BM023999.D

(89) Benzo(k)fluoranthene

22.798min (+0.135) 30.64ng/ul

response 4330761

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	28.18#
125.00	8.70	11.08#
0.00	0.00	0.00

Quantitation Report (Qedit)

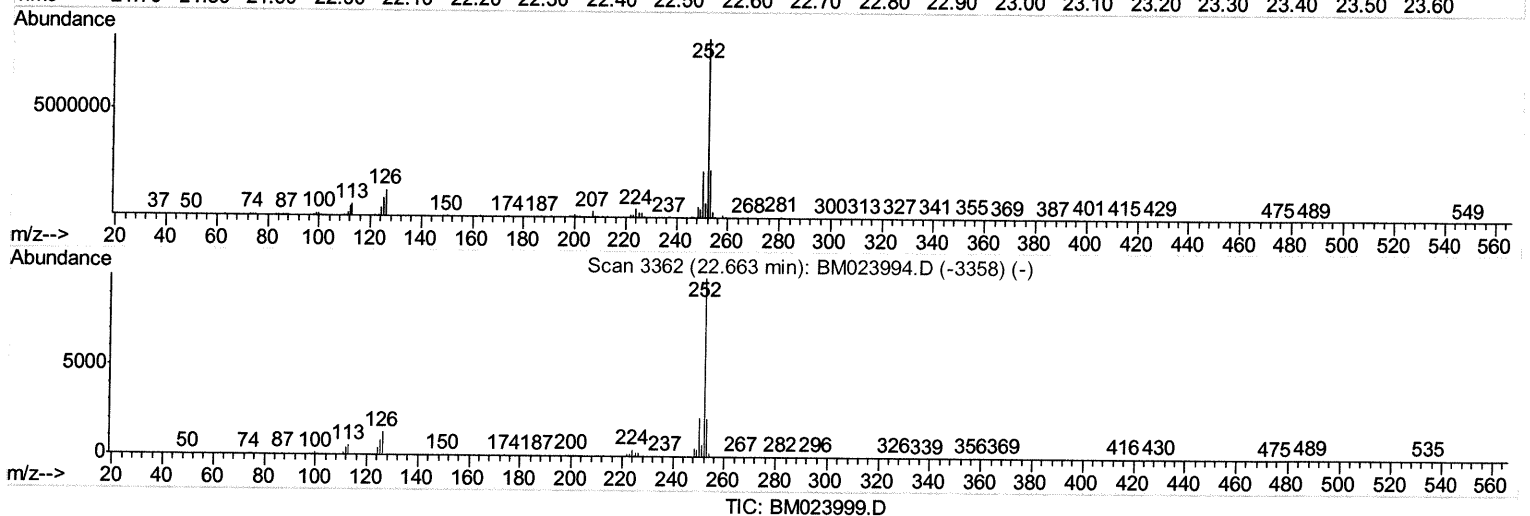
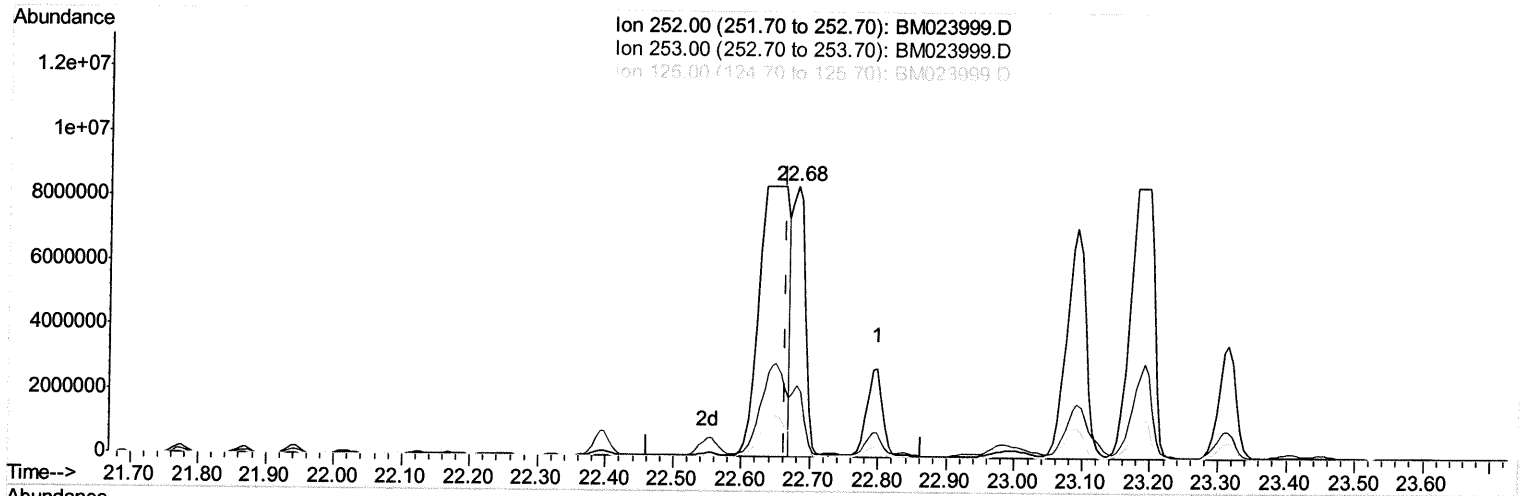
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A5167

Manual Integrations
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Quant Time: Dec 04 15:10:27 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM112719MA.M
Quant Title : SVOA CALIBRATION
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(89) Benzo(k)fluoranthene

22.680min (+0.017) 76.95ng/ul m JUL 12/10/19

response 10874661

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	26.44#
125.00	8.70	10.26
0.00	0.00	0.00

Quantitation Report (Qedit)

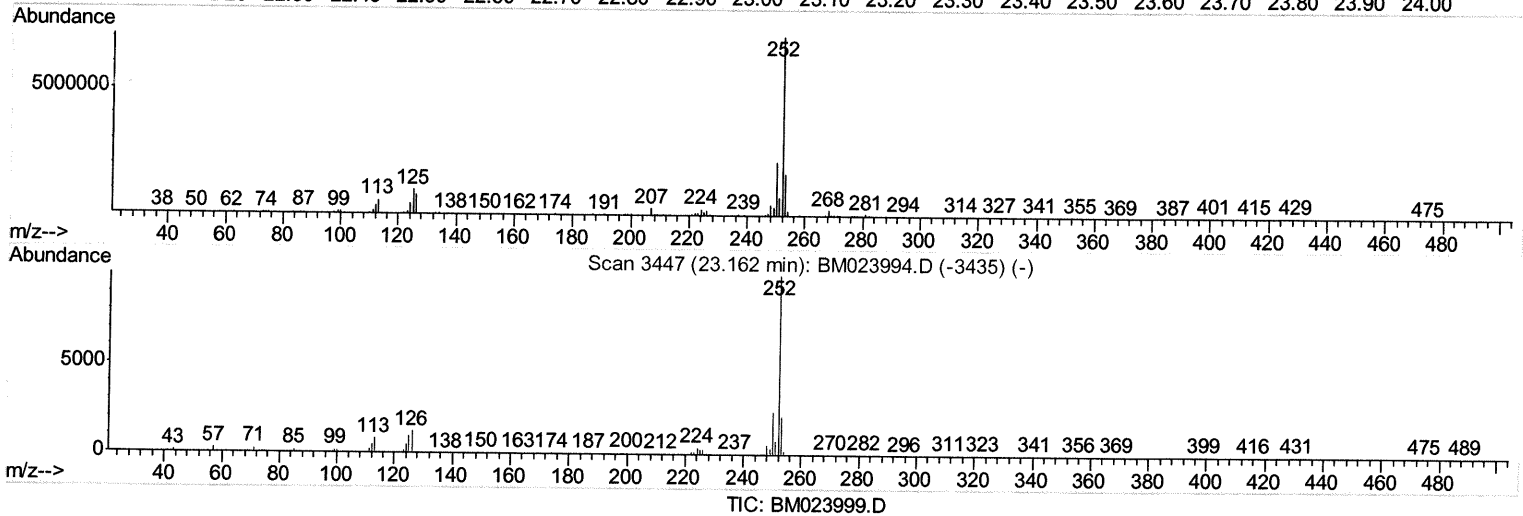
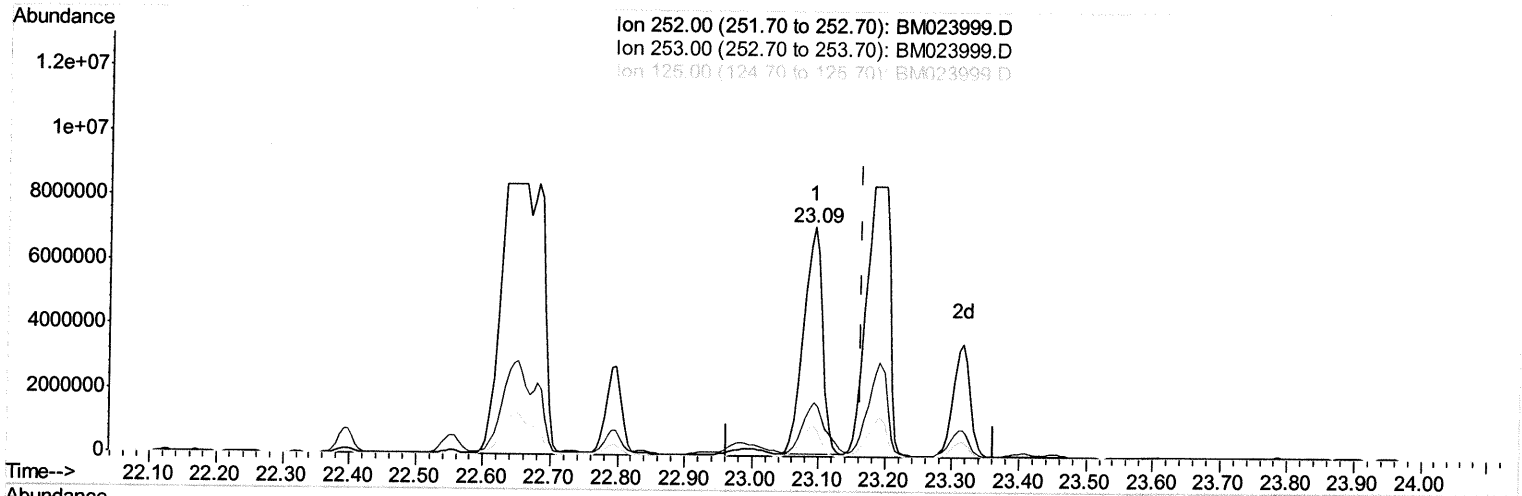
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
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Manual Integrations
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(91) Benzo(a)pyrene (C)

23.092min (-0.071) 98.54ng/ul

response 13870427

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	23.36
125.00	9.70	13.52#
0.00	0.00	0.00

Quantitation Report (Qedit)

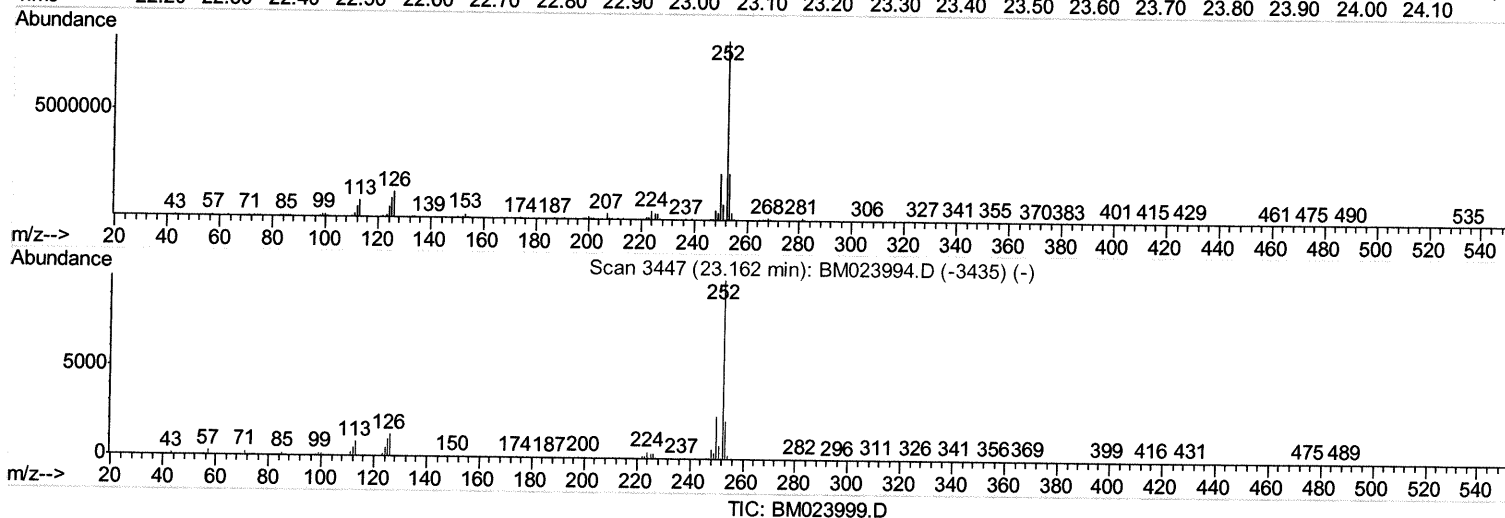
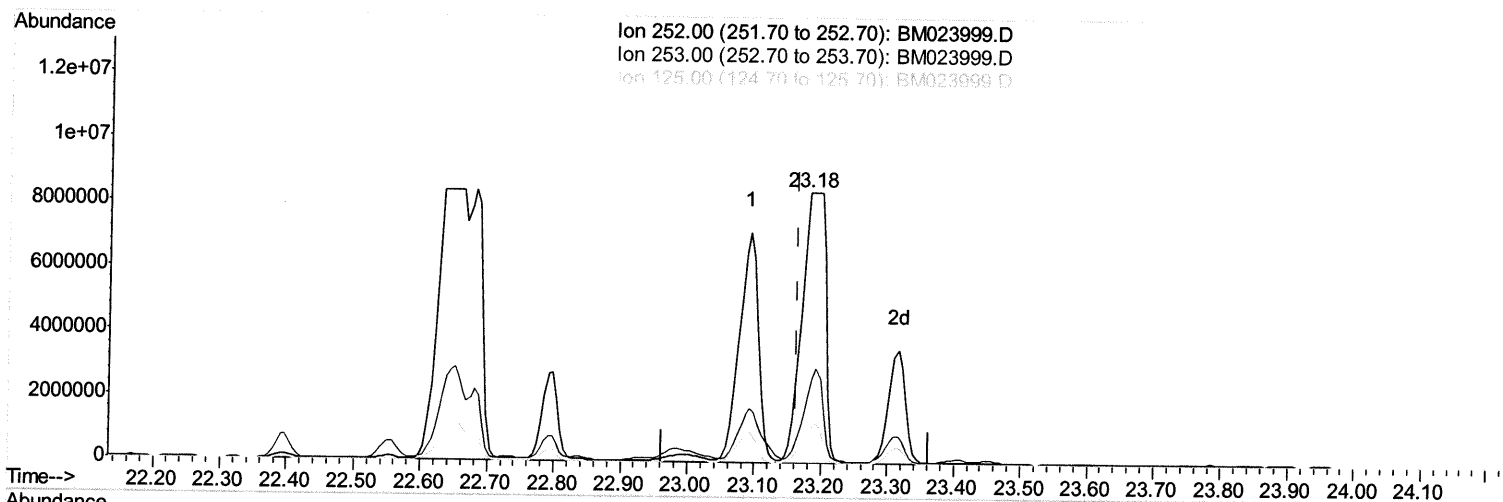
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
Data File : BM023999.D
Acq On : 04 Dec 2019 13:37
Operator : JU
Sample : K4649-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Manual Integrations
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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration



(91) Benzo(a)pyrene (C)

23.180min (+0.017) 147.80ng/ul m JU 12/10/19

response 20805407

Ion	Exp%	Act%
252.00	100	100
253.00	21.50	25.75
125.00	9.70	11.20
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM120419\
 Data File : BM023999.D
 Acq On : 04 Dec 2019 13:37
 Operator : JU
 Sample : K4649-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.48	152	347519	20.00	ng/ul	0.00
18) Naphthalene-d8	10.25	136	1404782	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.14	164	822419	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.90	188	1744547	20.00	ng/ul	0.00
78) Chrysene-d12	21.12	240	1902246	20.00	ng/ul	0.01
86) Perylene-d12	23.27	264	2407325	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.04	96	6949	0.89	ng/uL	0.01
5) Phenol-d5	6.68	99	160834	5.28	ng/ul	0.00
7) Bis-(2-Chloroethyl) ether-d	6.83	67	102487	5.79	ng/ul	0.00
9) 2-Chlorophenol-d4	7.02	132	128803	5.47	ng/ul	0.00
13) 4-Methylphenol-d8	8.20	113	118673	4.94	ng/ul	0.00
19) Nitrobenzene-d5	8.63	128	58694	5.38	ng/ul	0.00
22) 2-Nitrophenol-d4	9.36	143	59444	4.80	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.89	165	111242	4.74	ng/ul	0.00
29) 4-Chloroaniline-d4	10.42	131	78459	3.05	ng/ul	0.02
44) Dimethylphthalate-d6	13.56	166	364349	5.70	ng/ul	0.00
47) Acenaphthylene-d8	13.83	160	411953	5.50	ng/ul	0.00
52) 4-Nitrophenol-d4	14.39	143	26842	2.50	ng/ul	0.02
58) Fluorene-d10	15.14	176	331922	6.17	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.30	200	23909	2.18	ng/ul	0.01
71) Anthracene-d10	17.00	188	517559	6.21	ng/ul	0.00
79) Pyrene-d10	19.31	212	600298	6.11	ng/ul	0.01
90) Benzo(a)pyrene-d12	23.13	264	760177	5.97	ng/ul	0.01

Target Compounds

					Qvalue	
28) Naphthalene	10.30	128	1144787	15.458	ng/ul	99
34) 2-Methylnaphthalene	11.93	142	285081	5.301	ng/ul	99
35) 1-Methylnaphthalene	12.15	142	202574	3.837	ng/ul	98
41) 1,1'-Biphenyl	12.97	154	108698	1.636	ng/ul	98
45) Dimethylphthalate	13.61	163	95748	1.531	ng/ul	98
50) Acenaphthene	14.20	153	2181807	40.551	ng/ul	100
54) Dibenzofuran	14.55	168	1381516	18.148	ng/ul	99
59) Fluorene	15.20	166	2066637	33.663	ng/ul	99
70) Phenanthrene	16.94	178	20319884m>	206.183	ng/ul >	JU 12/10/19
72) Anthracene	17.03	178	9227352	92.220	ng/ul	98
75) Carbazole	17.30	167	4412933	50.934	ng/ul	100
77) Fluoranthene	18.97	202	23444764m	221.826	ng/ul	JU 12/10/19
80) Pyrene	19.33	202	23672794m	184.700	ng/ul	
83) Benzo(a)anthracene	21.10	228	18645360m	146.644	ng/ul	
85) Chrysene	21.15	228	17260302m	144.557	ng/ul	
88) Benzo(b)fluoranthene	22.63	252	25542982m	171.574	ng/ul	
89) Benzo(k)fluoranthene	22.68	252	10874661m	76.948	ng/ul	JU 12/10/19
91) Benzo(a)pyrene	23.18	252	20805407m	147.805	ng/ul	
92) Indeno(1,2,3-cd)pyrene	25.42	276	15477482	88.549	ng/ul	97
93) Dibenzo(a,h)anthracene	25.41	278	4193682m>	28.565	ng/ul >	JU 12/10/19
94) Benzo(g,h,i)perylene	26.06	276	11961182	81.711	ng/ul	98

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Response via : Initial Calibration

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

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