

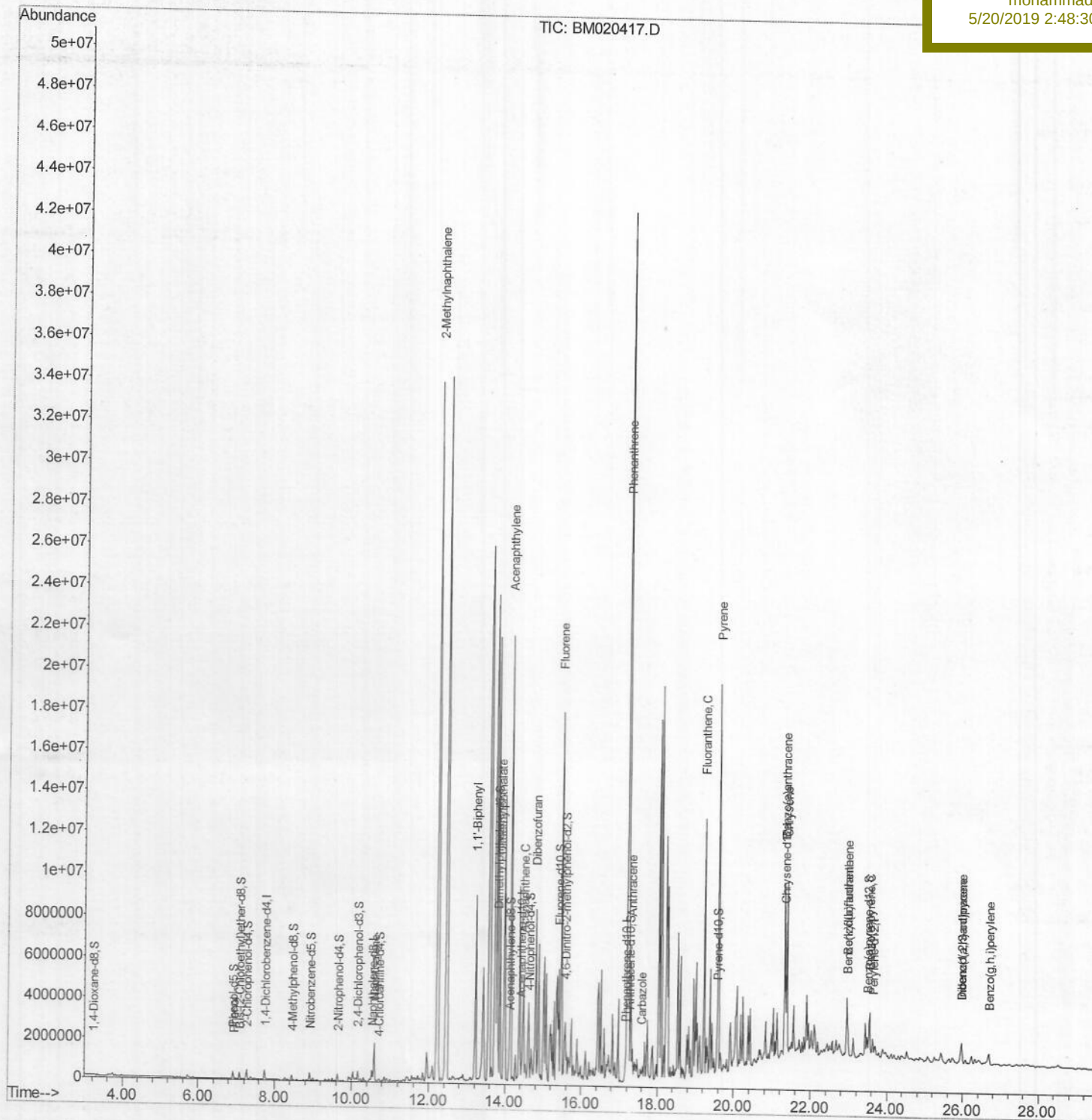
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
Data File : BM020417.D
Acq On : 19 May 2019 02:17
Operator : JU/SJ
Sample : K2633-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 10:45:52 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 05:13:49 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
GAJ96

Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	129635	20.00	ng/ul	0.00
18) Naphthalene-d8	10.53	136	464532	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.40	164	345337	20.00	ng/ul	0.02
61) Phenanthrene-d10	17.17	188	480842	20.00	ng/ul	0.04
77) Chrysene-d12	21.35	240	503869	20.00	ng/ul	0.03
85) Perylene-d12	23.63	264	613900m	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	12359	3.52	ng/uL	0.00
5) Phenol-d5	6.91	99	231169	22.35	ng/ul	0.01
7) Bis-(2-Chloroethyl) ether-d	7.08	67	158895	24.17	ng/ul	0.00
9) 2-Chlorophenol-d4	7.27	132	182440	24.05	ng/ul	0.00
13) 4-Methylphenol-d8	8.45	113	98655	13.10	ng/ul	0.01
19) Nitrobenzene-d5	8.91	128	89062	29.47	ng/ul	0.01
22) 2-Nitrophenol-d4	9.63	143	99282	29.78	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.16	165	185077	26.26	ng/ul	0.01
29) 4-Chloroaniline-d4	10.69	131	44442	6.10	ng/ul	0.02
43) Dimethylphthalate-d6	13.82	166	543073	21.86	ng/ul	0.03
46) Acenaphthylene-d8	14.11	160	636376	20.48	ng/ul	0.04
51) 4-Nitrophenol-d4	14.63	143	68262	18.92	ng/ul	0.04
57) Fluorene-d10	15.40	176	432516	19.57	ng/ul	0.03
62) 4,6-Dinitro-2-methylphenol	15.58	200	25472m	9.30	ng/ul	0.07
70) Anthracene-d10	17.27	188	574285	27.85	ng/ul	0.04
78) Pyrene-d10	19.56	212	663180	27.32	ng/ul	0.04
89) Benzo(a)pyrene-d12	23.49	264	738060m	26.46	ng/ul	0.04

Target Compounds

						Qvalue
6) Phenol	6.93	94	20945	1.925	ng/ul	99
28) Naphthalene	10.59	128	1324861	62.076	ng/ul	99
34) 2-Methylnaphthalene	12.25	142	22800336	1475.467	ng/ul	90
40) 1,1'-Biphenyl	13.23	154	4701523	190.170	ng/ul	100
44) Dimethylphthalate	13.87	163	149467	6.081	ng/ul	99
47) Acenaphthylene	14.15	152	13210409	450.753	ng/ul#	94
49) Acenaphthene	14.47	153	1537169	76.294	ng/ul	96
53) Dibenzofuran	14.80	168	1779640	58.328	ng/ul	96
58) Fluorene	15.48	166	8580311	351.047	ng/ul#	95
69) Phenanthrene	17.22	178	29835438m	1302.238	ng/ul	
71) Anthracene	17.30	178	3175124	136.240	ng/ul	99
74) Carbazole	17.57	167	63066	3.188	ng/ul#	71
76) Fluoranthene	19.23	202	8108459	280.172	ng/ul	98
79) Pyrene	19.60	202	12449329m	411.640	ng/ul	
82) Benzo(a)anthracene	21.33	228	4516968m	148.943	ng/ul	
84) Chrysene	21.39	228	4153736	143.322	ng/ul	96
87) Benzo(b)fluoranthene	22.95	252	2345795m	66.952	ng/ul	
88) Benzo(k)fluoranthene	22.97	252	810591m	23.554	ng/ul	
90) Benzo(a)pyrene	23.54	252	1442304m	43.742	ng/ul	
91) Indeno(1,2,3-cd)pyrene	25.96	276	935659m	24.904	ng/ul	
92) Dibenzo(a,h)anthracene	25.96	278	421390m	13.115	ng/ul	
93) Benzo(g,h,i)perylene	26.69	276	704713m	22.659	ng/ul	

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

Quantitation Report (Qedit)

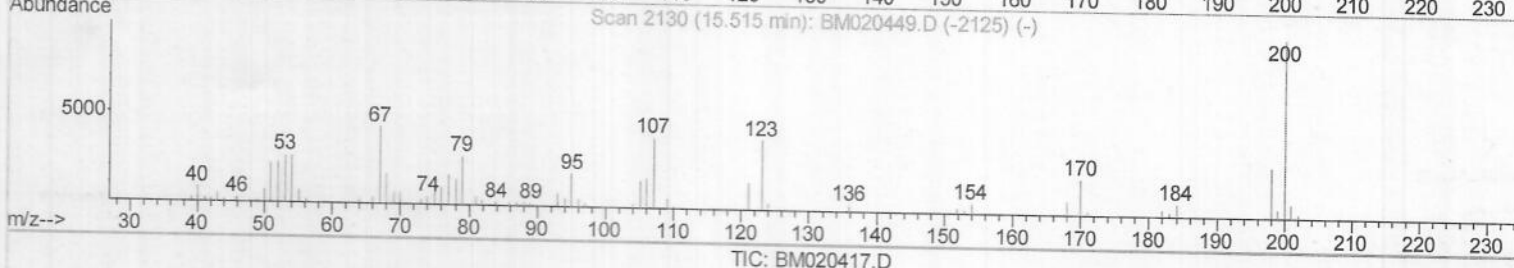
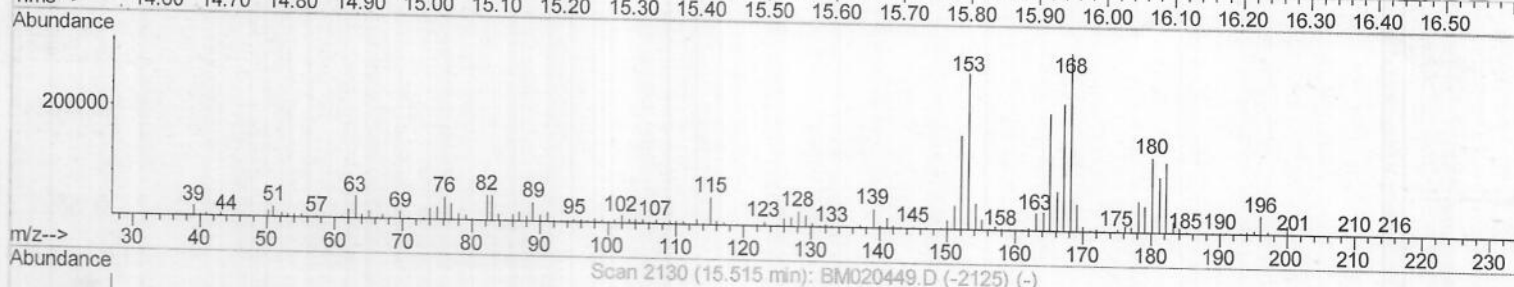
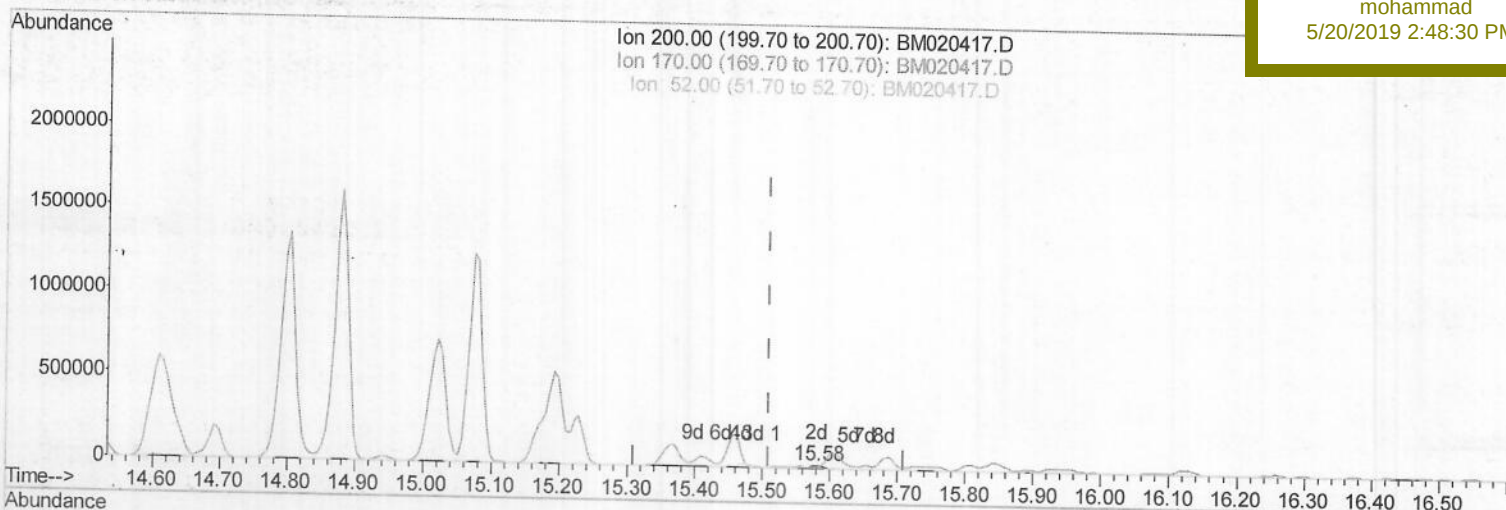
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(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.580min (+0.071) 9.30ng/ul m

response 25472

Ion Exp% Act%

200.00 100 100

170.00 19.70 60.95#

52.00 29.20 48.08#

0.00 0.00 0.00

J. U
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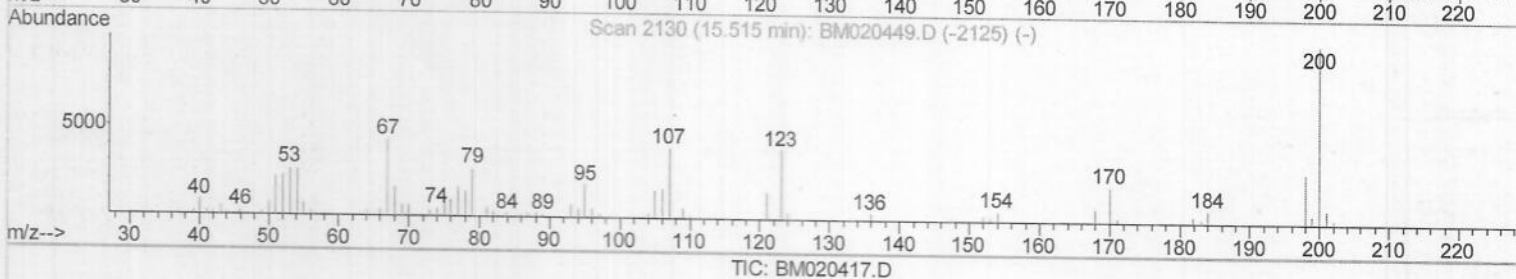
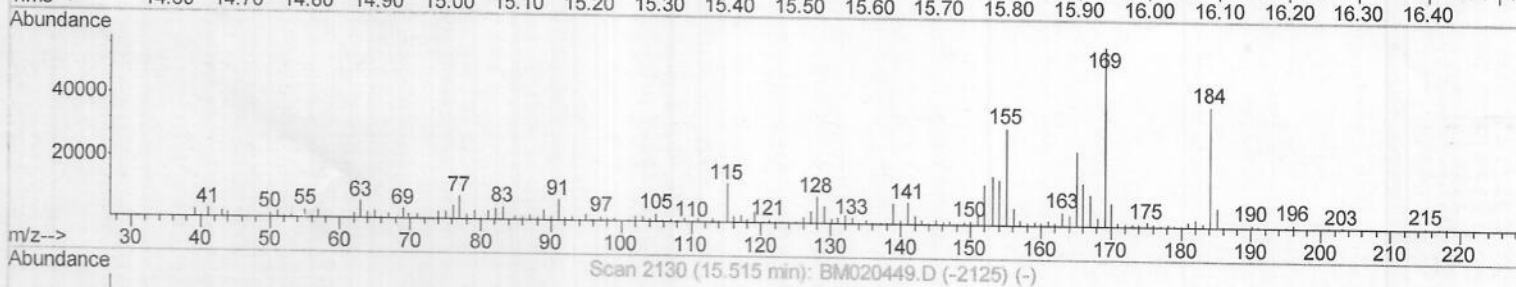
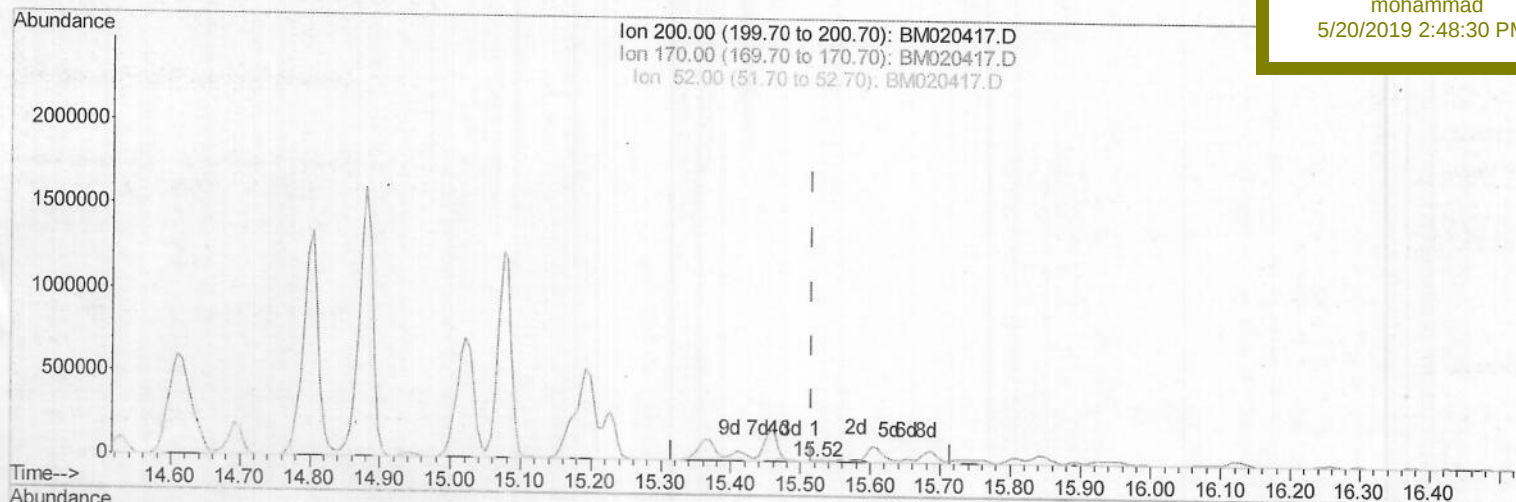
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QLast Update : Tue May 21 08:36:13 2019
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BNA_M
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Manual Integrations
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(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.522min (+0.006) 0.06ng/ul

response 168

Ion	Exp%	Act%
200.00	100	100
170.00	19.70	1758.46#
52.00	29.20	115.82#
0.00	0.00	0.00

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Misc :

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BNA_M

ClientSampleId :

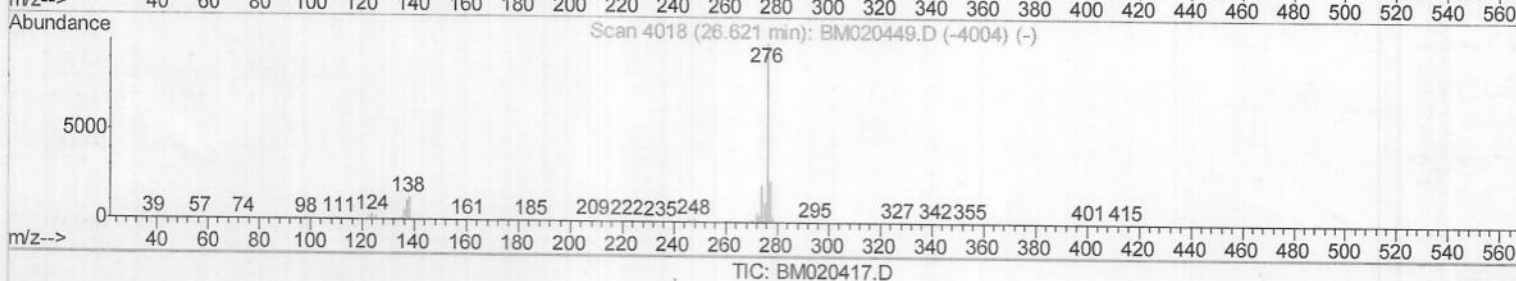
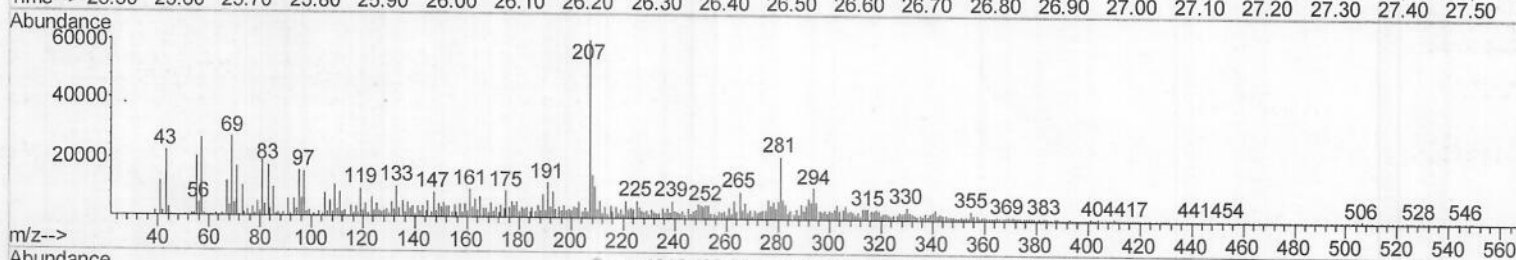
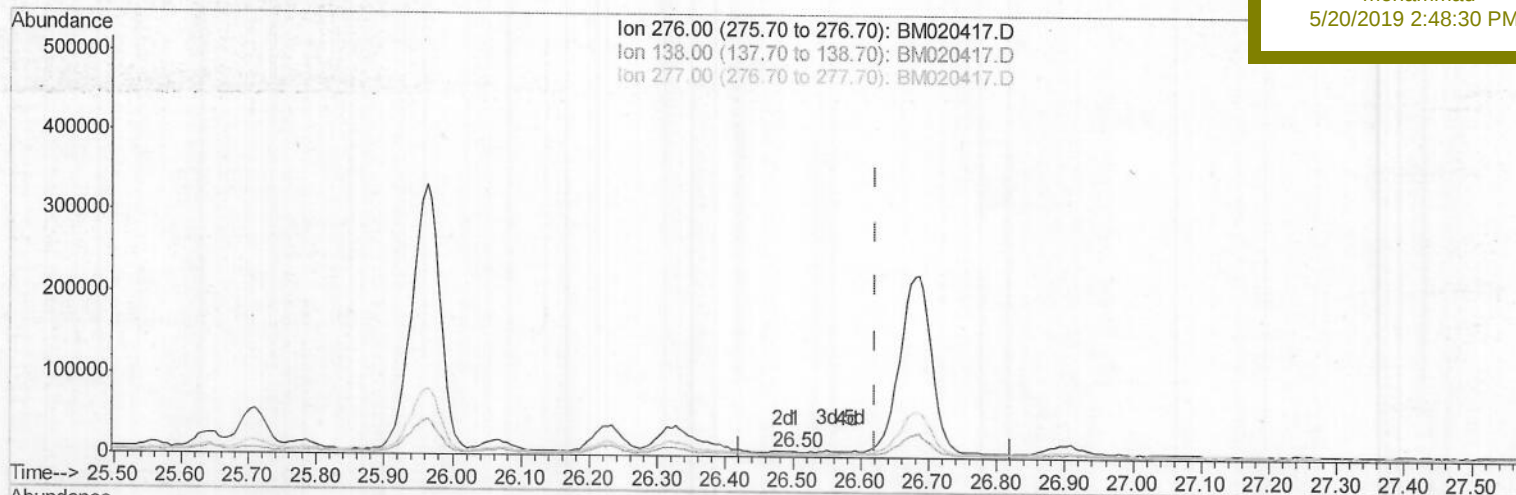
GAJ96

Manual Integrations

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(93) Benzo(g,h,i)perylene.

26.503min (-0.117) 0.01ng/ui

response 319

Ion	Exp%	Act%
276.00	100	100
138.00	12.50	48.36#
277.00	22.80	71.20#
0.00	0.00	0.00

Instrument :
BNA_M
ClientSampleId :
GAJ96

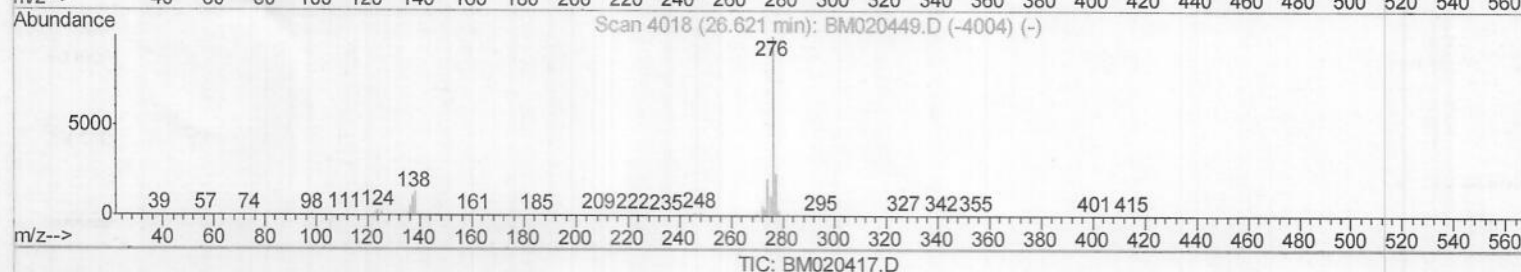
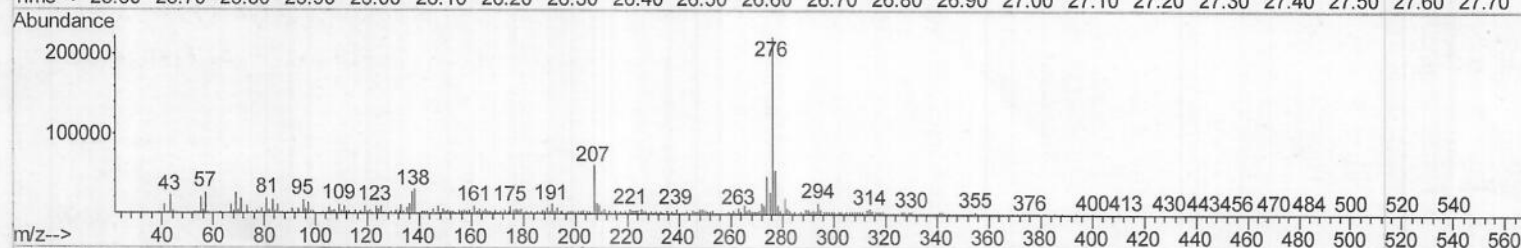
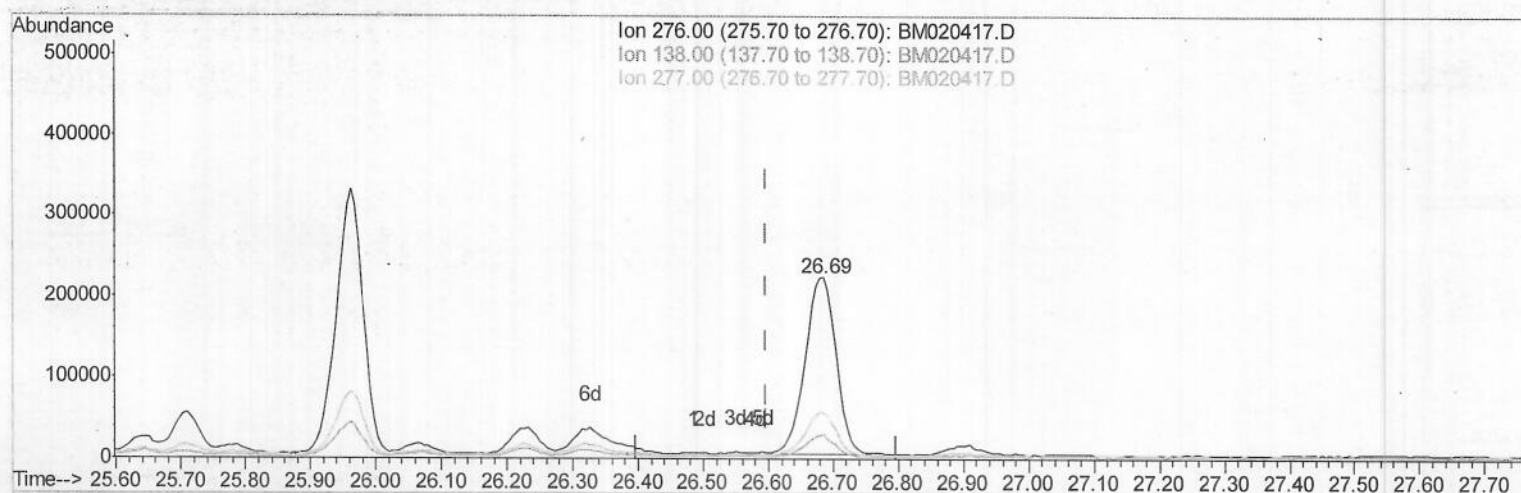
Manual Integrations
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Quantitation Report (Qedit)

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Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 05:13:49 2019
Response via : Initial Calibration



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

26.685min (+0.088) 22.66ng/ul m

response 704713

Ion	Exp%	Act%
276.00	100	100
138.00	12.50	13.53
277.00	22.80	24.79
0.00	0.00	0.00

J. H
05/21/19

Instrument :
BNA_M
ClientSampleId :
GAJ96

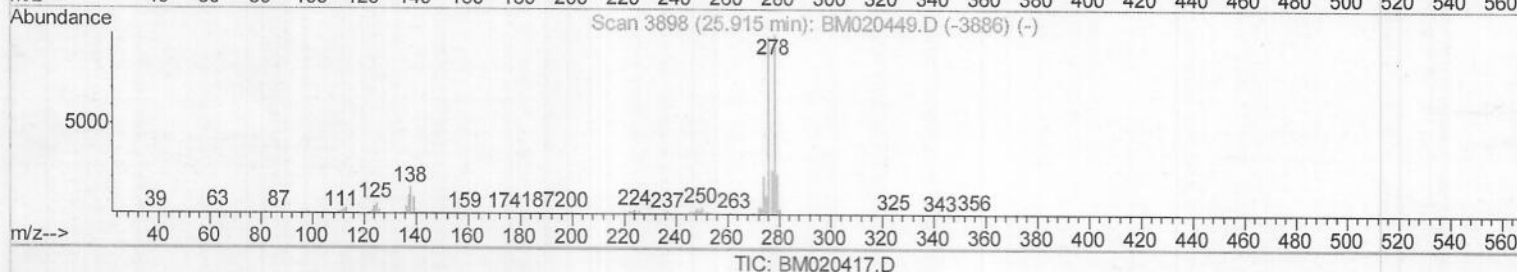
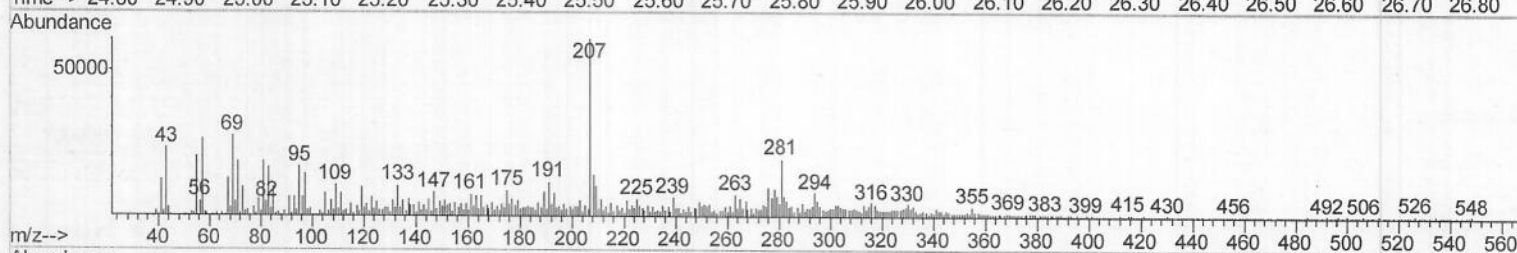
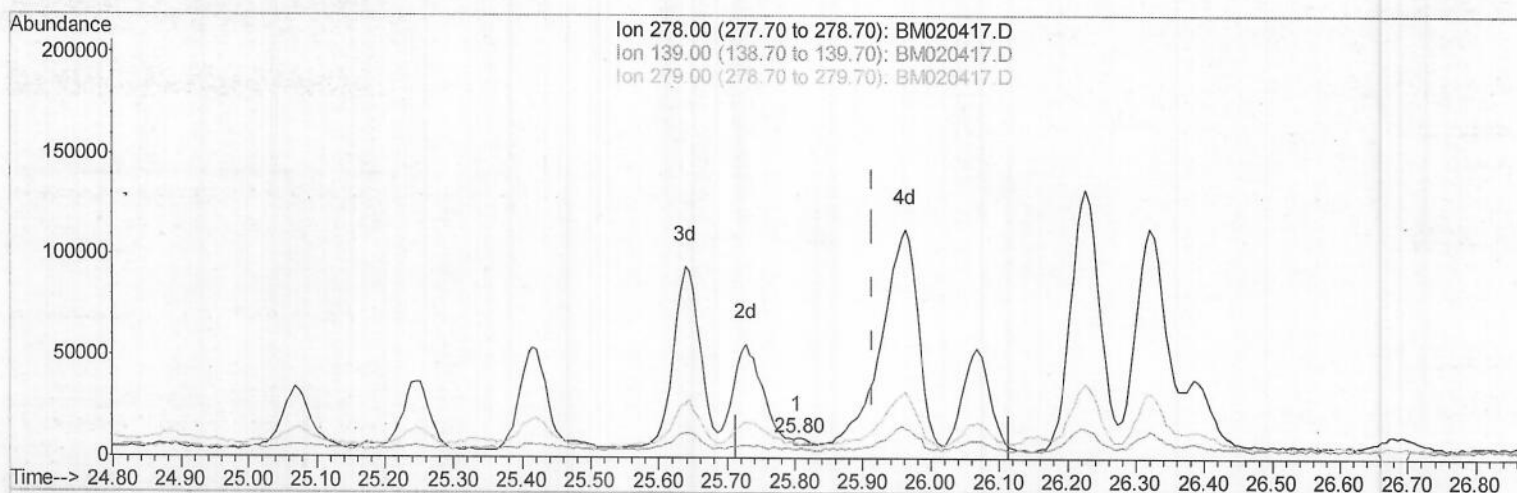
Manual Integrations
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(92) Dibenzo(a,h)anthracene

25.803min (-0.112) 0.09ng/ul

response 3419

Ion	Exp%	Act%
278.00	100	100
139.00	10.10	42.51#
279.00	23.40	75.01#
0.00	0.00	0.00

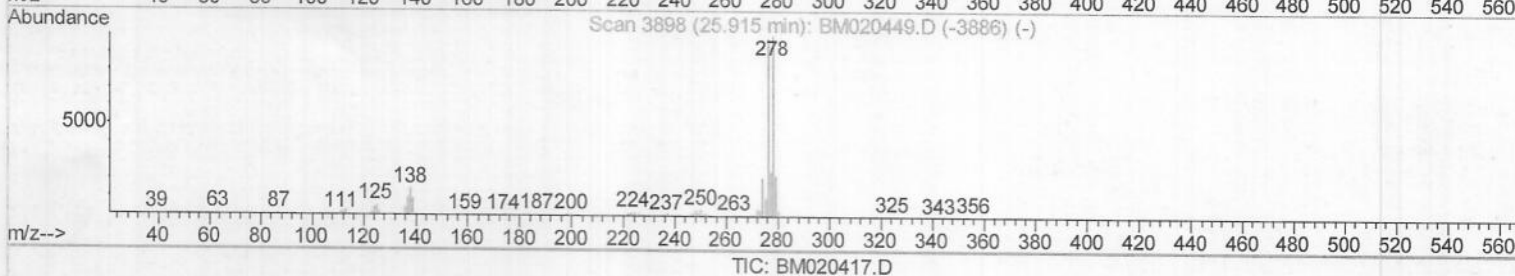
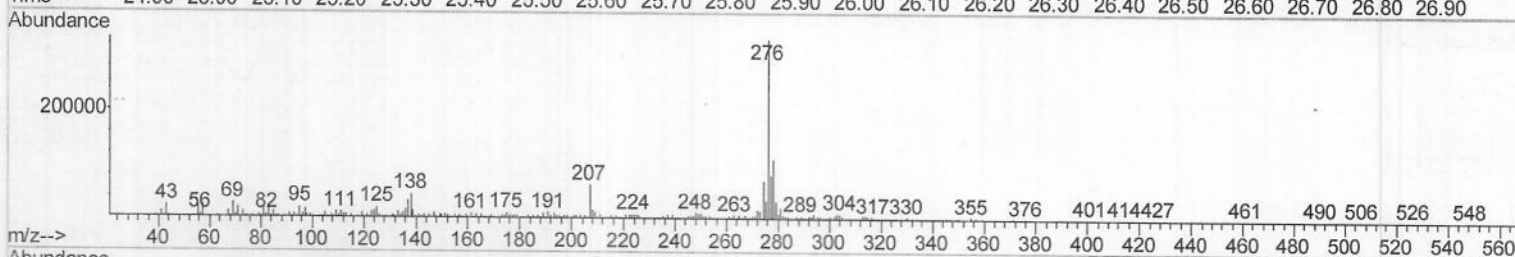
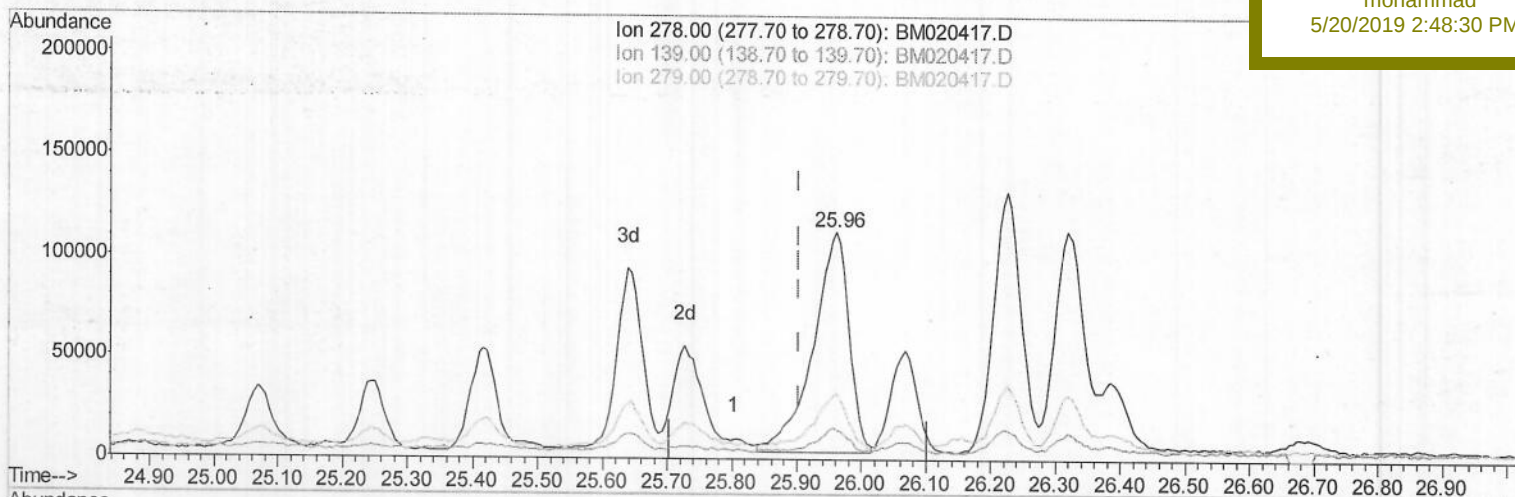
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Manual Integrations
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(92) Dibenzo(a,h)anthracene

25.962min (+0.059) 13.12ng/ul m

response 421390

Ion	Exp%	Act%
278.00	100	100
139.00	10.10	12.64#
279.00	23.40	29.06#
0.00	0.00	0.00

JU
 05/21/19

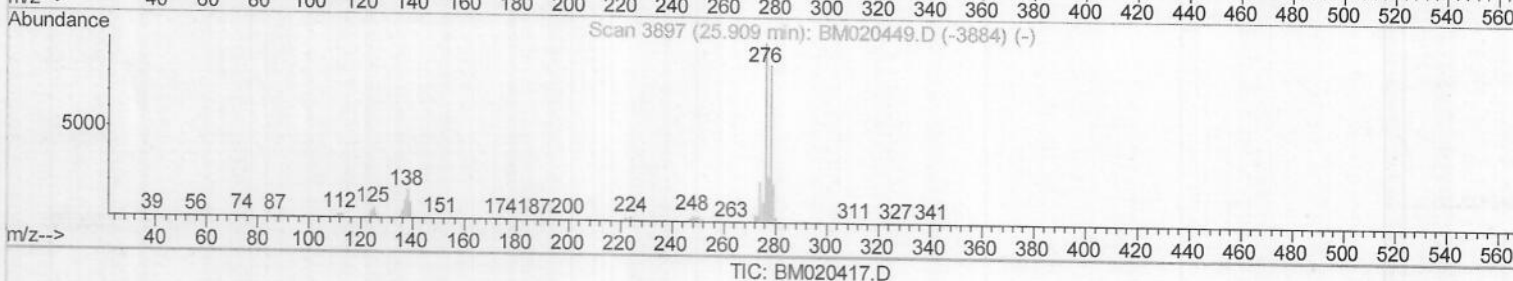
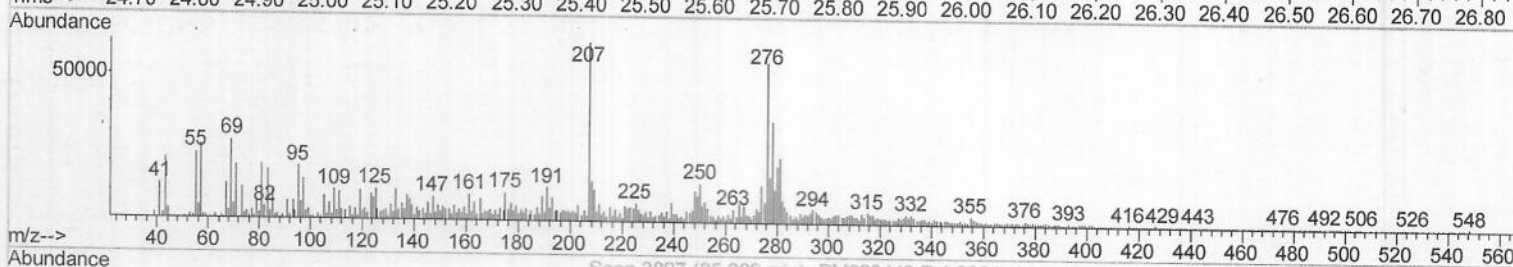
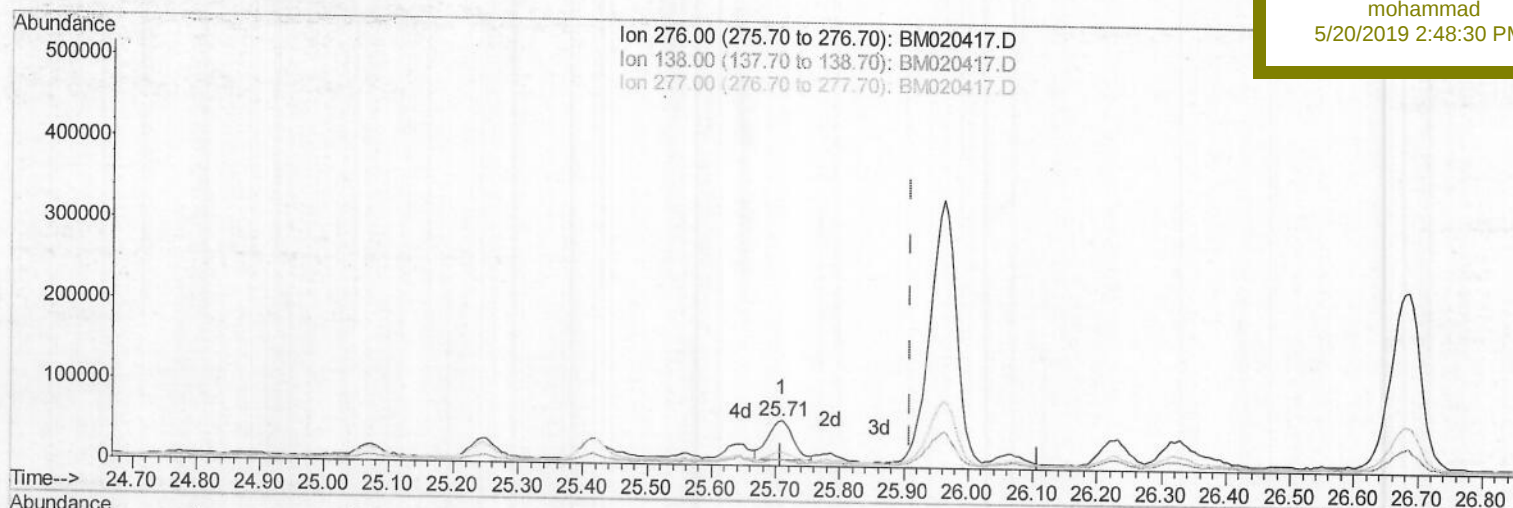
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Manual Integrations
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(91) Indeno(1,2,3-cd)pyrene

25.709min (-0.200) 2.90ng/ul

response 131305

Ion	Exp%	Act%
276.00	100	100
138.00	15.40	13.40
277.00	25.00	29.79
0.00	0.00	0.00

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Misc :

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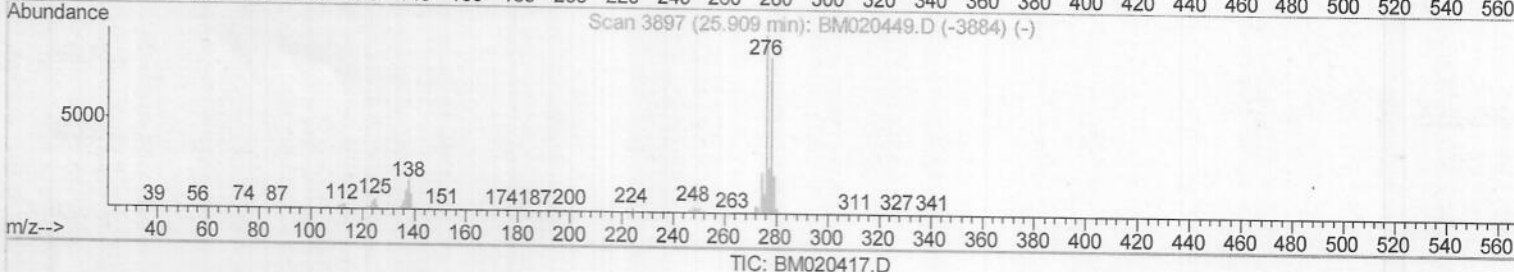
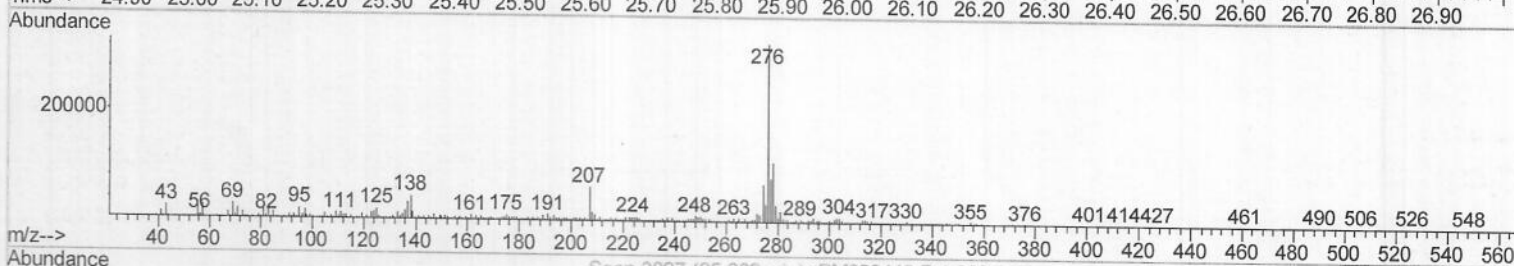
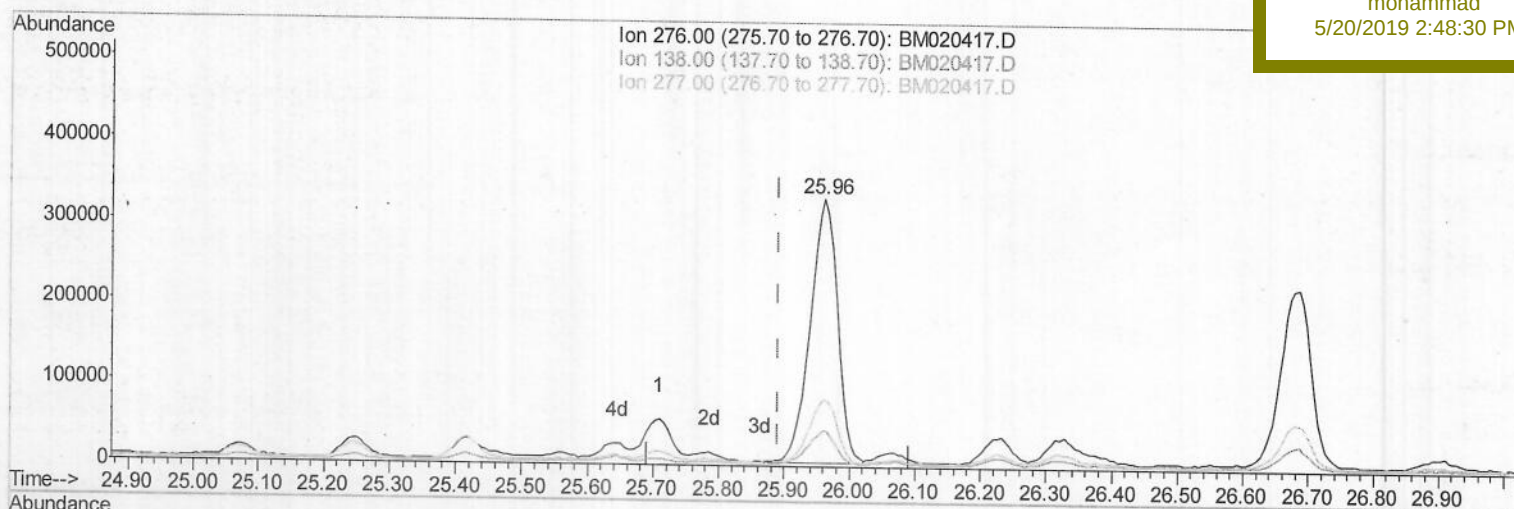
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Manual Integrations

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TIC: BM020417.D

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

25.962min (+0.071) 24.90ng/ul m

response 935659

Ion	Exp%	Act%
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276.00	100	100
--------	-----	-----

138.00	15.40	13.11
--------	-------	-------

277.00	25.00	24.73
--------	-------	-------

0.00	0.00	0.00
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J. U
05/21/19

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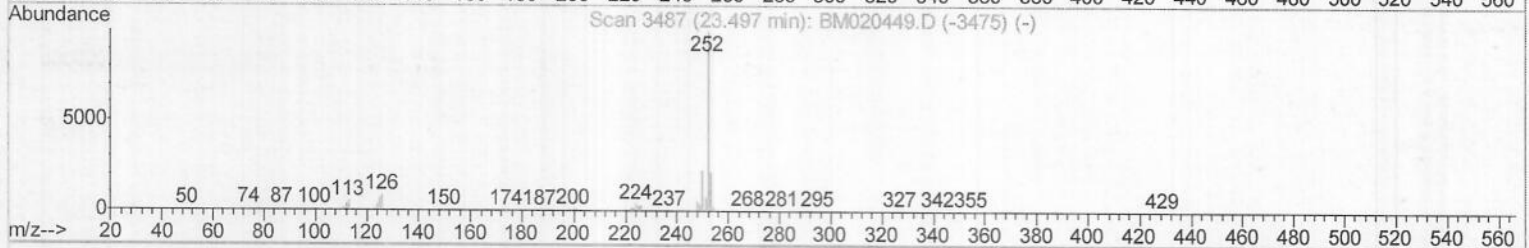
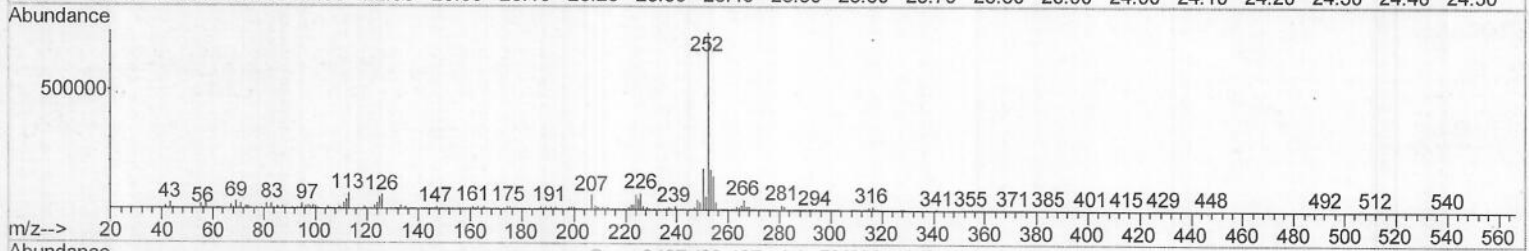
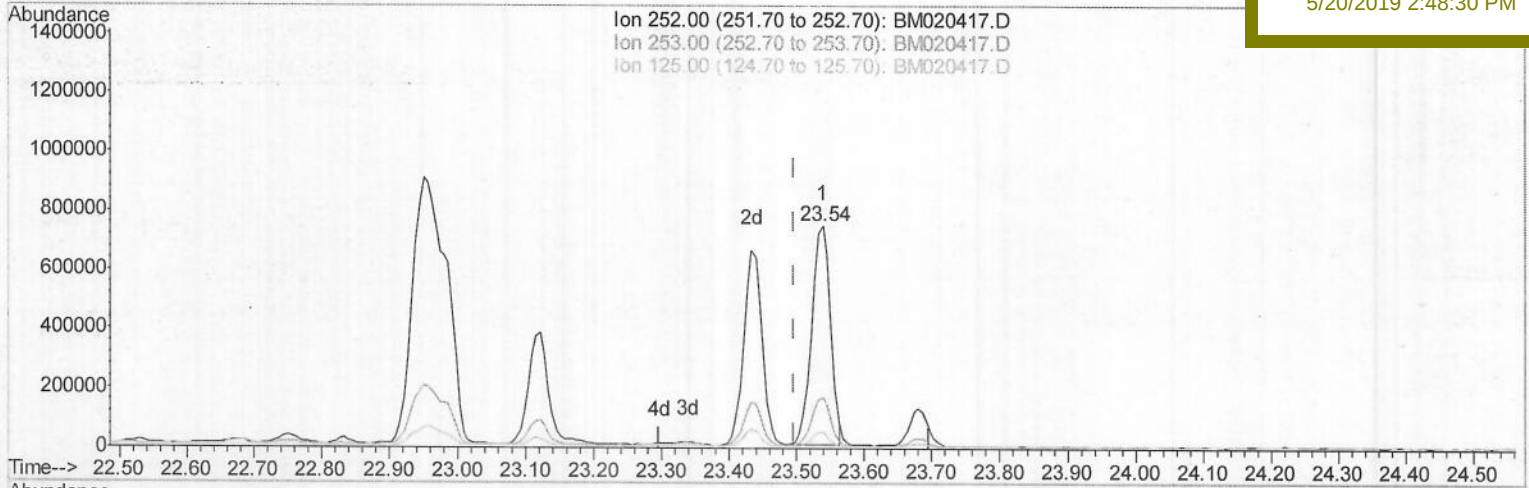
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Manual Integrations

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TIC: BM020417.D

(90) Benzo(a)pyrene (C)

23.539min (+0.041) 35.31ng/ul

response 1402103

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.59
125.00	6.80	7.04
0.00	0.00	0.00

Quantitation Report (Qedit)

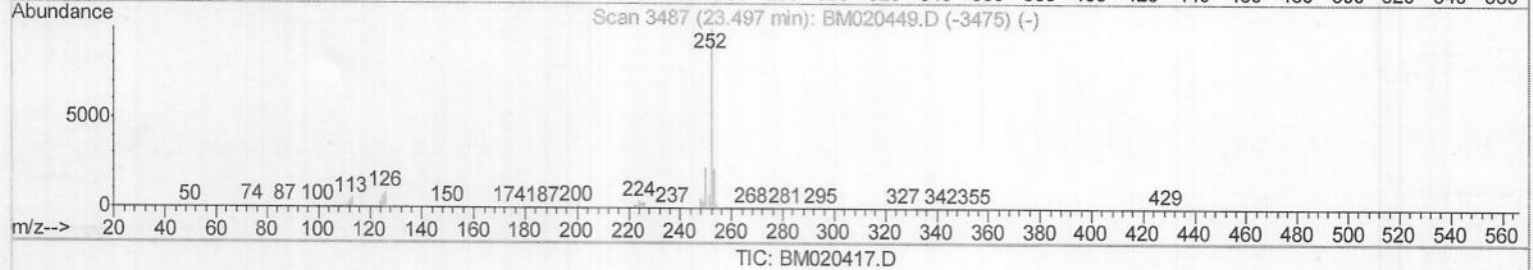
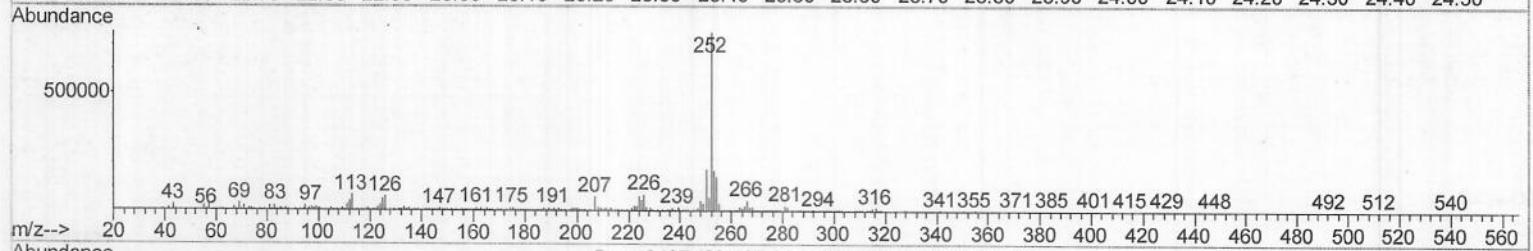
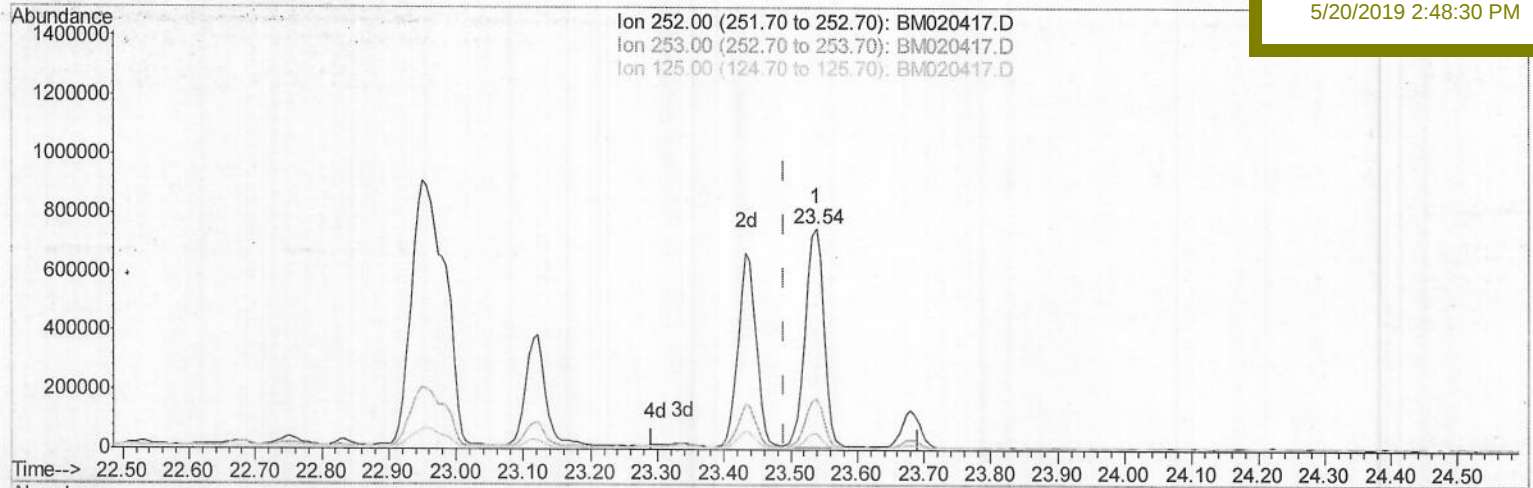
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Manual Integrations
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(90) Benzo(a)pyrene (C)

23.539min (+0.047) 43.74ng/ul m

response 1442304

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	22.59
125.00	6.80	7.04
0.00	0.00	0.00

J. U
 05/21/19

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\

Data File : BM020417.D

Acq On : 19 May 2019 02:17

Operator : JU/SJ

Sample : K2633-04

Misc :

ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 21 09:53:41 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Tue May 21 08:36:13 2019

Response via : Initial Calibration

Instrument :

BNA_M

ClientSampleId :

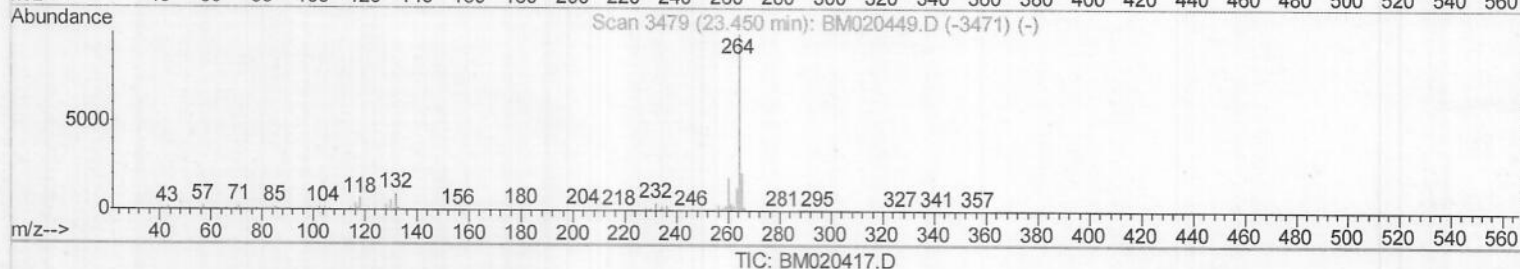
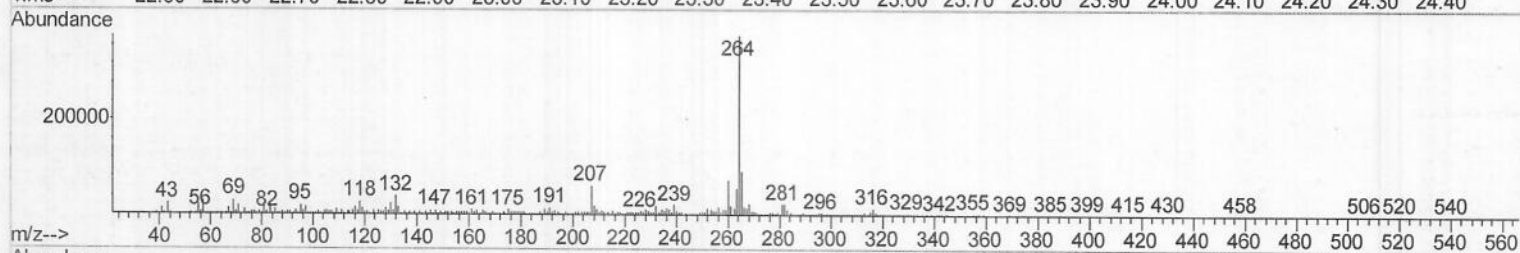
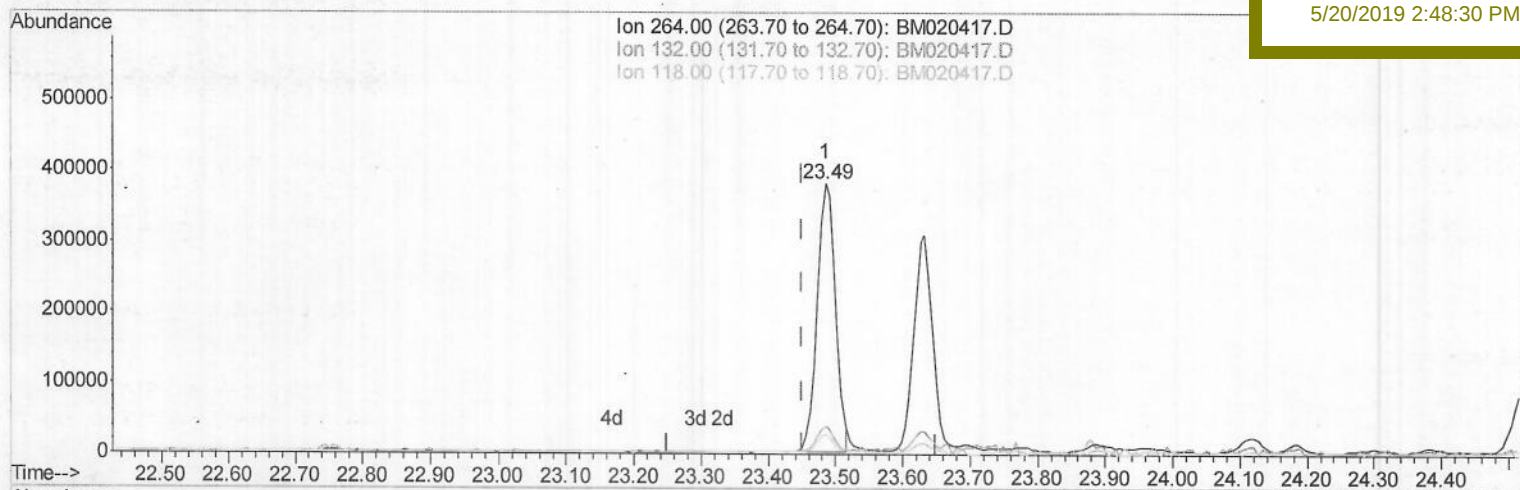
GAJ96

Manual Integrations

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(89) Benzo(a)pyrene-d12 (S)

23.486min (+0.036) 21.39ng/ul

response 718862

Ion Exp% Act%

264.00 100 100

132.00 10.00 10.30

118.00 6.70 7.19

0.00 0.00 0.00

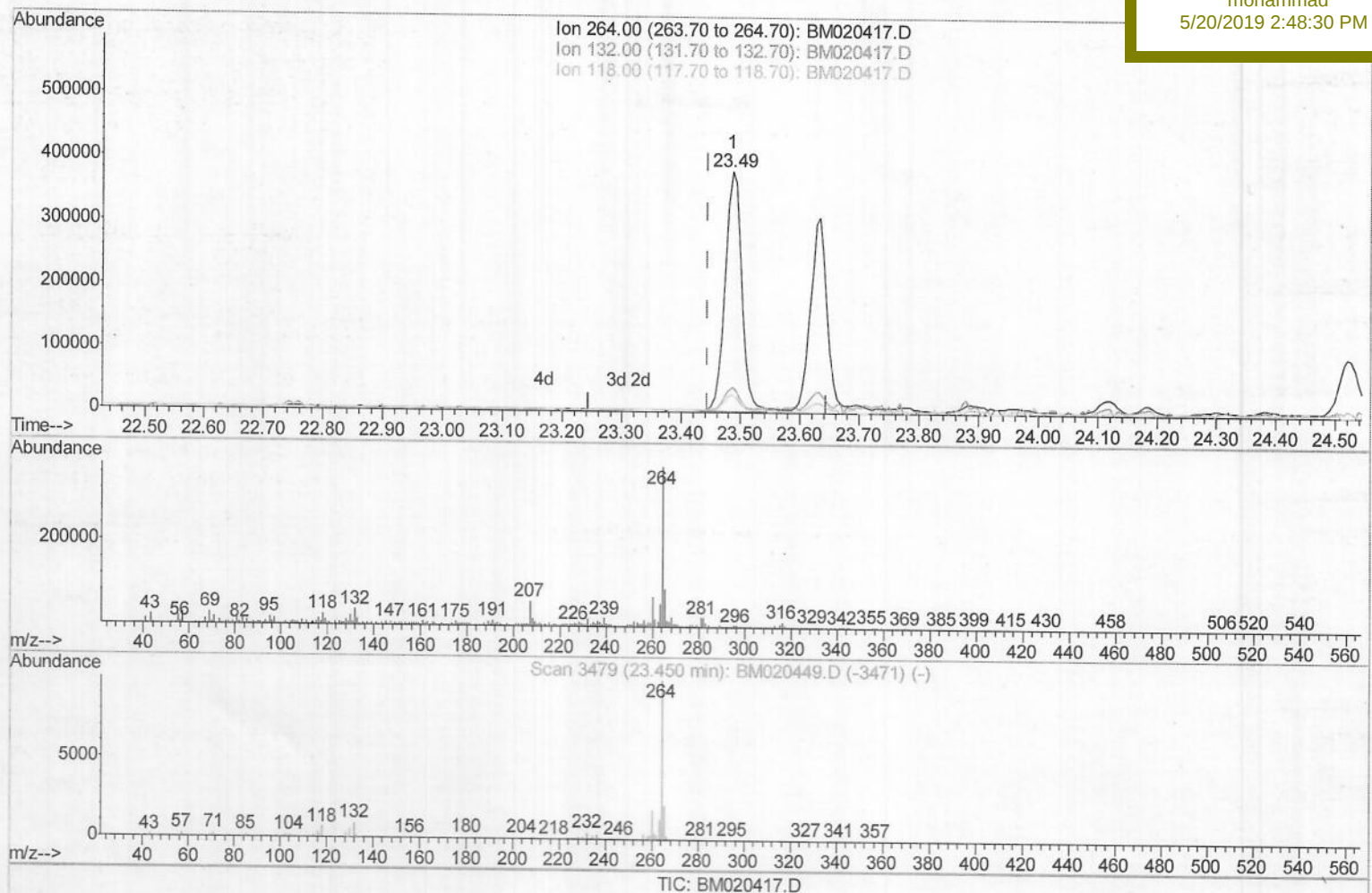
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
Data File : BM020417.D
Acq On : 19 May 2019 02:17
Operator : JU/SJ
Sample : K2633-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 10:45:52 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 05:13:49 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampled :
GAJ96

Manual Integrations
APPROVED

mohammad
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(89) Benzo(a)pyrene-d12 (S)

23.486min (+0.041) 26.46ng/ul m

response 738060

Ion	Exp%	Act%
264.00	100	100
132.00	10.00	10.30
118.00	6.70	7.19
0.00	0.00	0.00

7 J-2
05/21/19

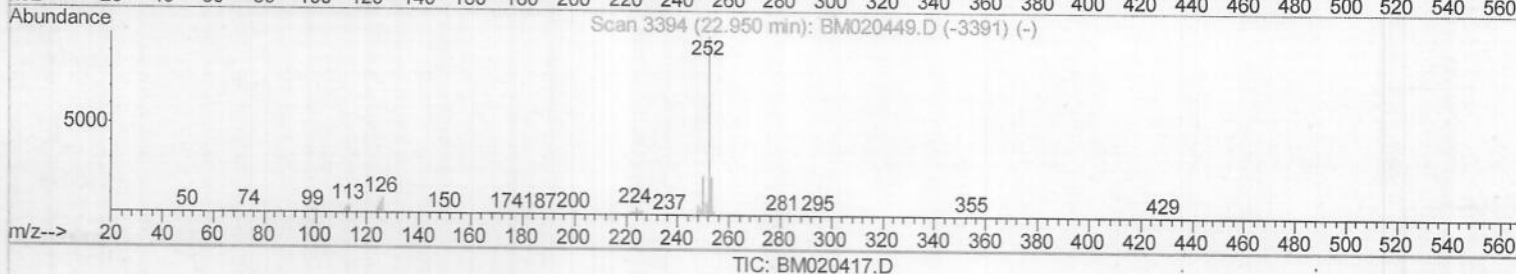
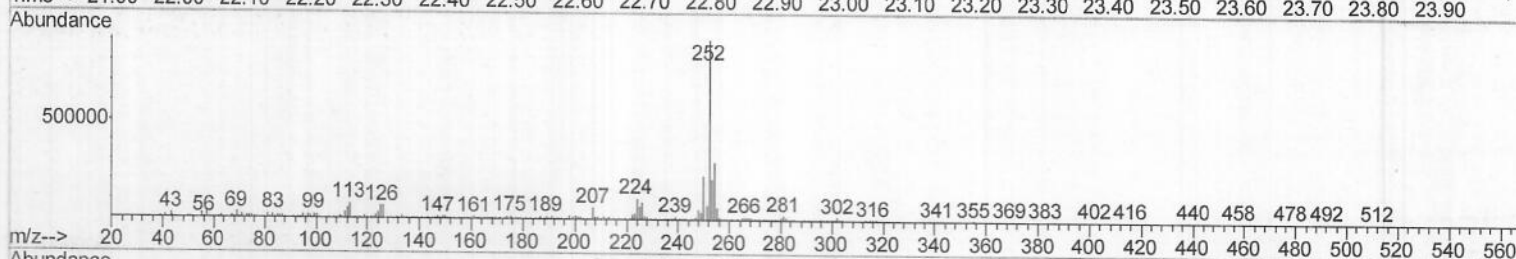
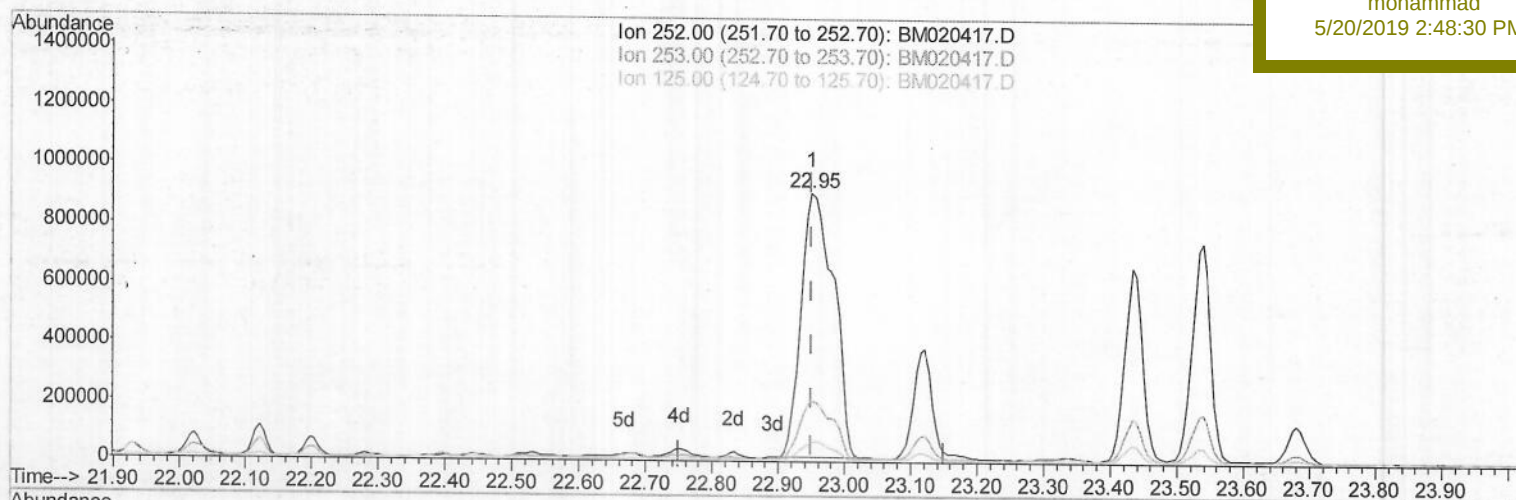
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
Data File : BM020417.D
Acq On : 19 May 2019 02:17
Operator : JU/SJ
Sample : K2633-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 21 09:53:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 21 08:36:13 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
GAJ96

Manual Integrations
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(88) Benzo(k)fluoranthene

22.950min (+0.000) 73.29ng/ul

response 3037978

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.89
125.00	6.30	7.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\

Data File : BM020417.D

Acq On : 19 May 2019 02:17

Operator : JU/SJ

Sample : K2633-04

Misc :

ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 10:45:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Sat May 18 05:13:49 2019

Response via : Initial Calibration

Instrument :

BNA_M

ClientSampleId :

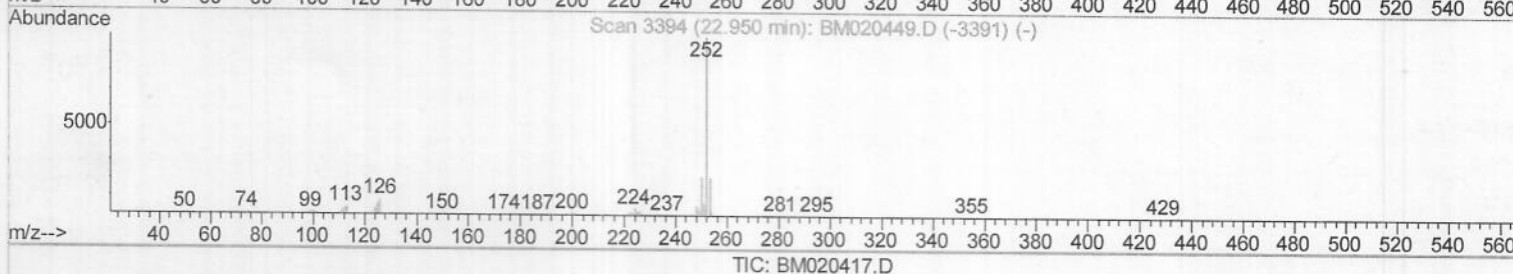
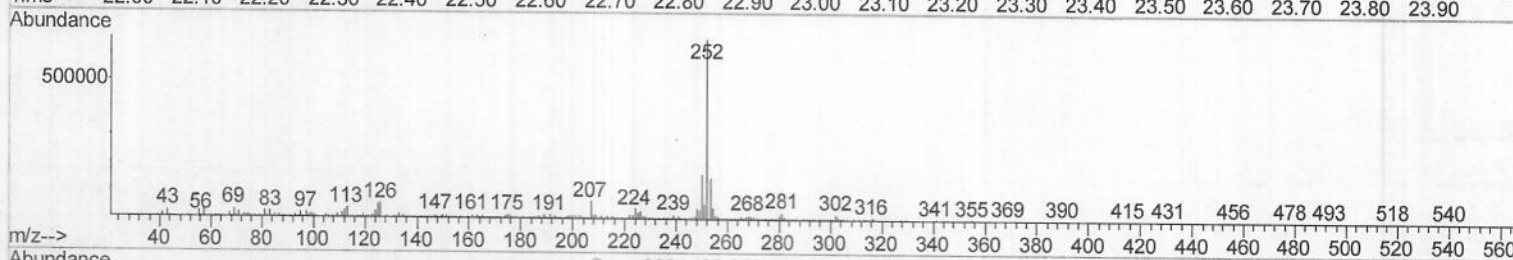
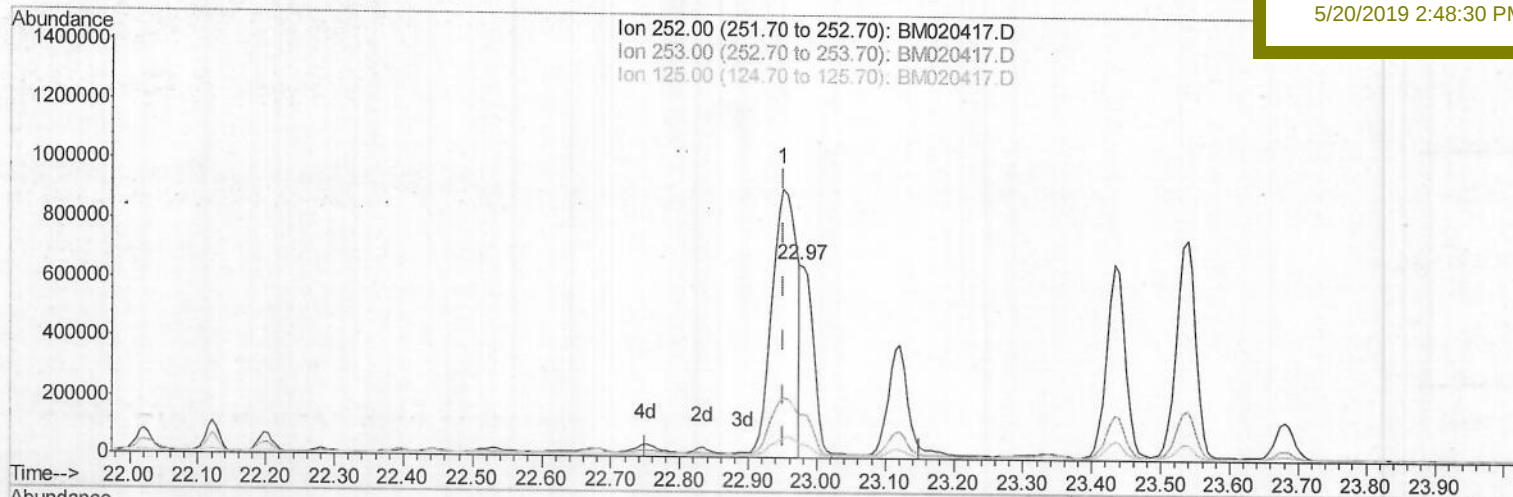
GAJ96

Manual Integrations

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TIC: BM020417.D

(88) Benzo(k)fluoranthene

22.974min (+0.024) 23.55ng/ul m

response 810591

Ion Exp% Act%

252.00 100 100

253.00 22.00 22.70

125.00 6.30 7.60#

.0.00 0.00 0.00

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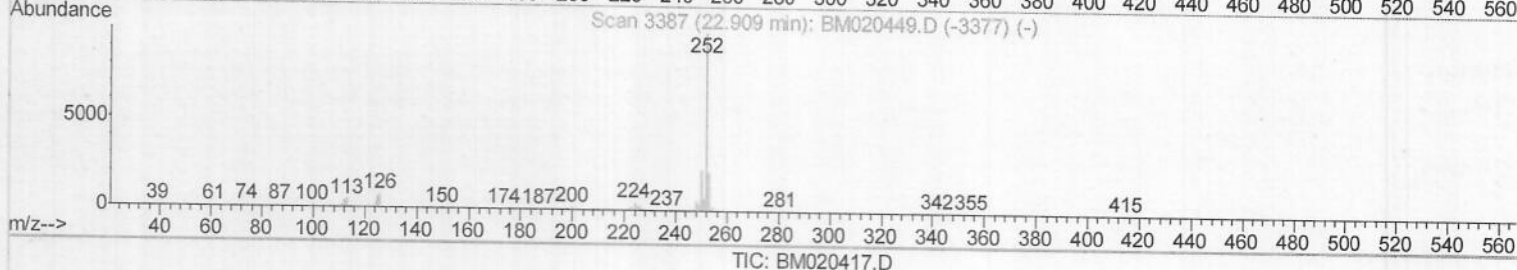
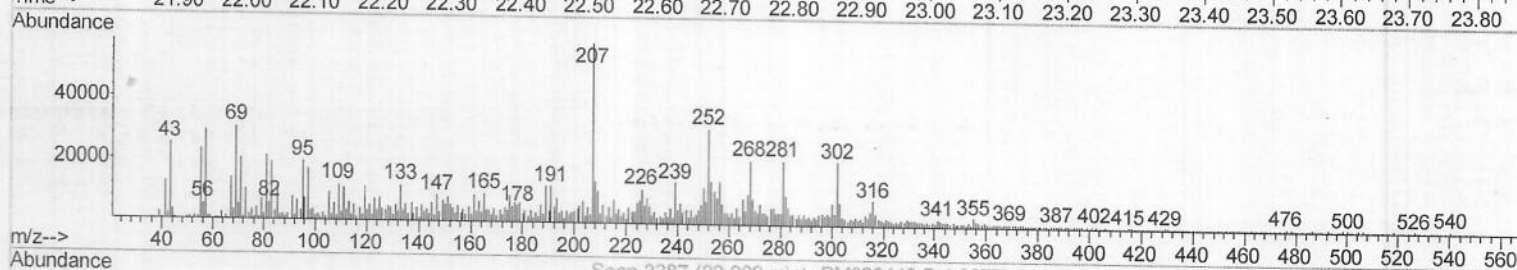
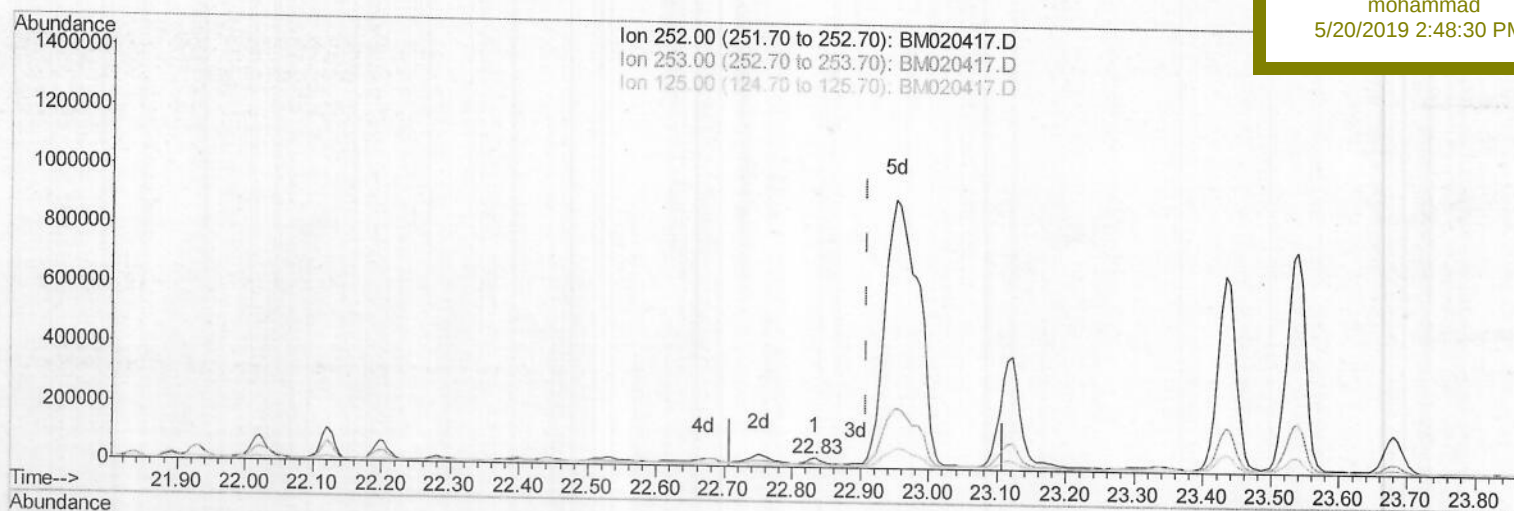
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
Data File : BM020417.D
Acq On : 19 May 2019 02:17
Operator : JU/SJ
Sample : K2633-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 21 09:53:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 21 08:36:13 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
GAJ96

Manual Integrations
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(87) Benzo(b)fluoranthene

22.833min (-0.076) 0.71ng/ul

response 30092

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	46.14#
125.00	6.20	25.63#
0.00	0.00	0.00

Quantitation Report (Qedit)

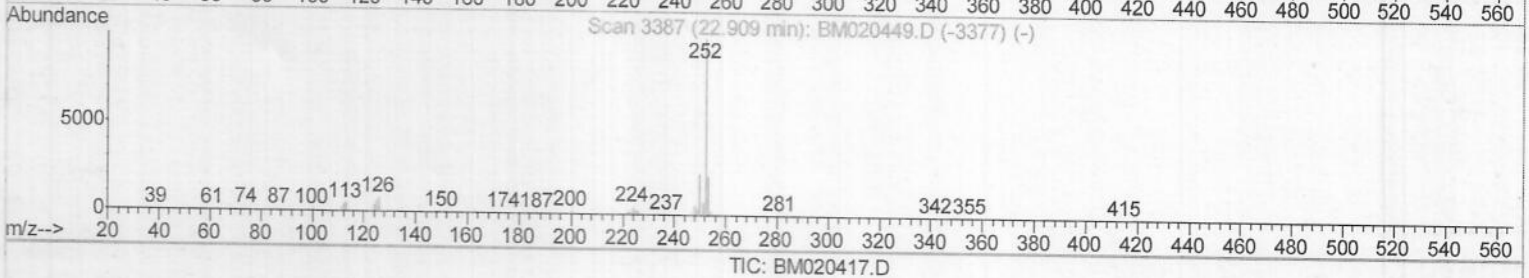
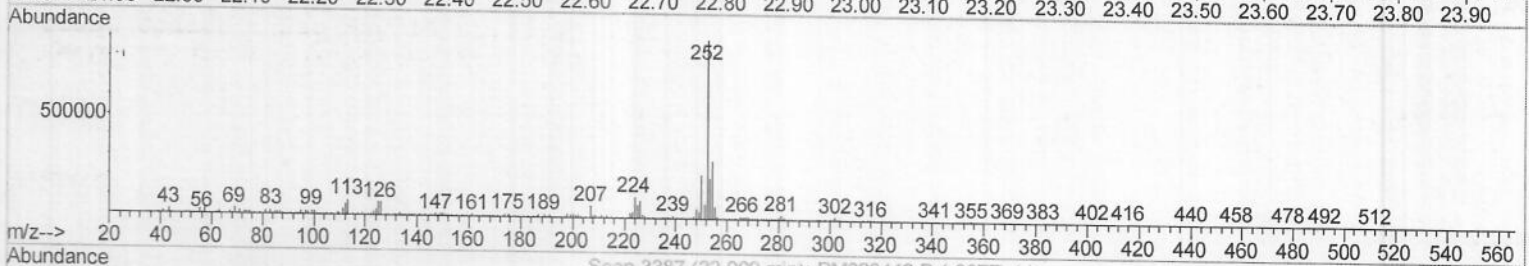
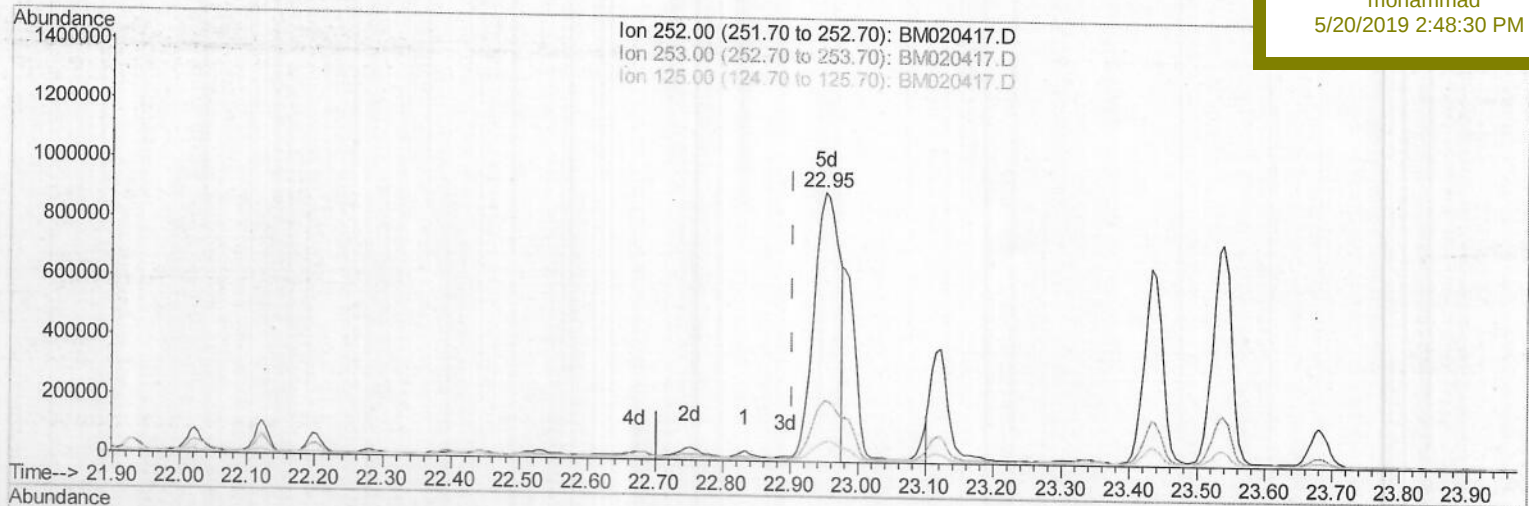
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
 Data File : BM020417.D
 Acq On : 19 May 2019 02:17
 Operator : JU/SJ
 Sample : K2633-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 10:45:52 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat May 18 05:13:49 2019
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 GAJ96

Manual Integrations
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 5/20/2019 2:48:30 PM



(87) Benzo(b)fluoranthene

22.950min (+0.047) 66.95ng/ul m

response 2345795

Ion	Exp%	Act%
252.00	100	100
253.00	21.30	22.89
125.00	6.20	7.46#
0.00	0.00	0.00

5.4
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Quantitation Report (Qedit)

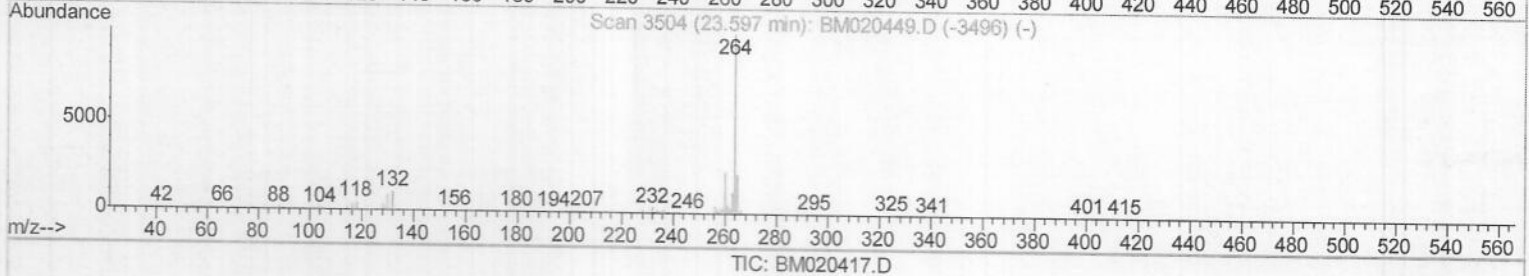
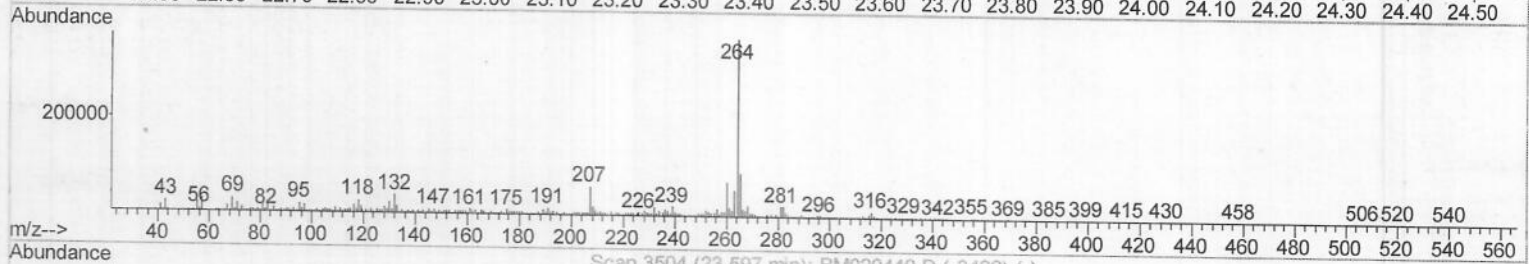
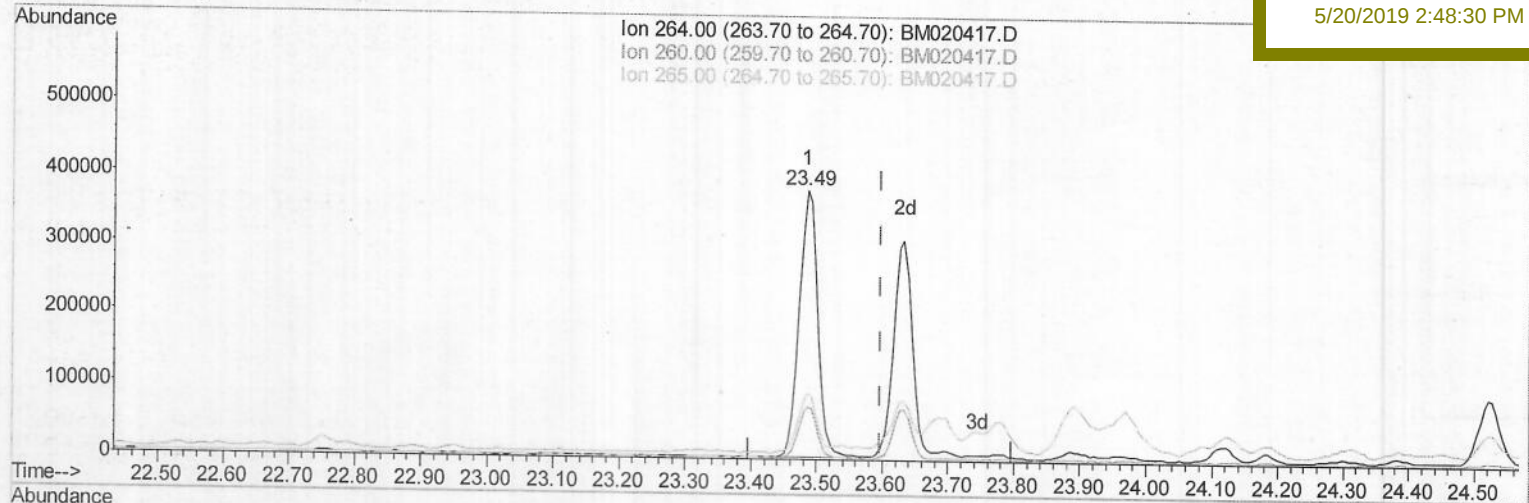
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
 Data File : BM020417.D
 Acq On : 19 May 2019 02:17
 Operator : JU/SJ
 Sample : K2633-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 21 09:53:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 21 08:36:13 2019
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 GAJ96

Manual Integrations
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(85) Perylene-d12 (I)

23.486min (-0.112) 20.00ng/ul

response 739408

Ion	Exp%	Act%
264.00	100	100
260.00	23.60	18.98
265.00	21.90	24.13
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\

Data File : BM020417.D

Acq On : 19 May 2019 02:17

Operator : JU/SJ

Sample : K2633-04

Misc :

ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 10:45:52 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Sat May 18 05:13:49 2019

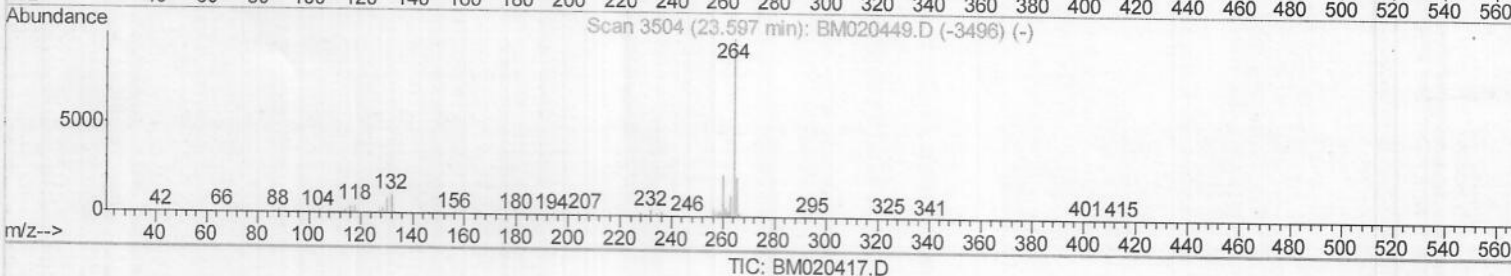
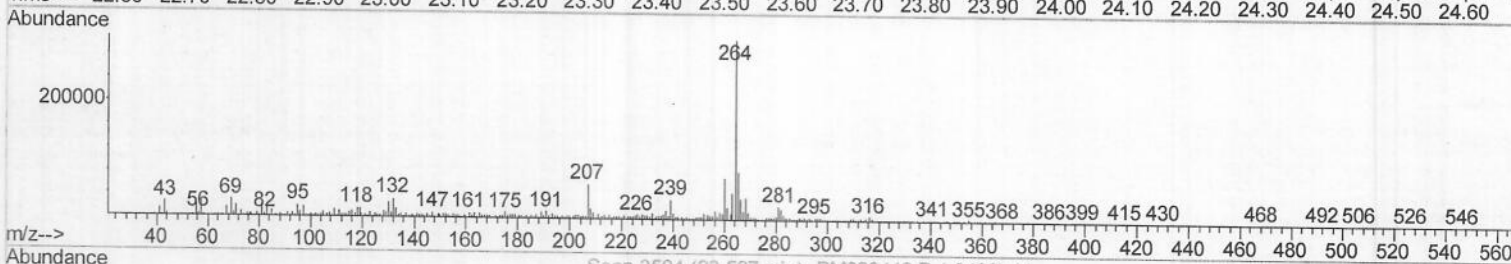
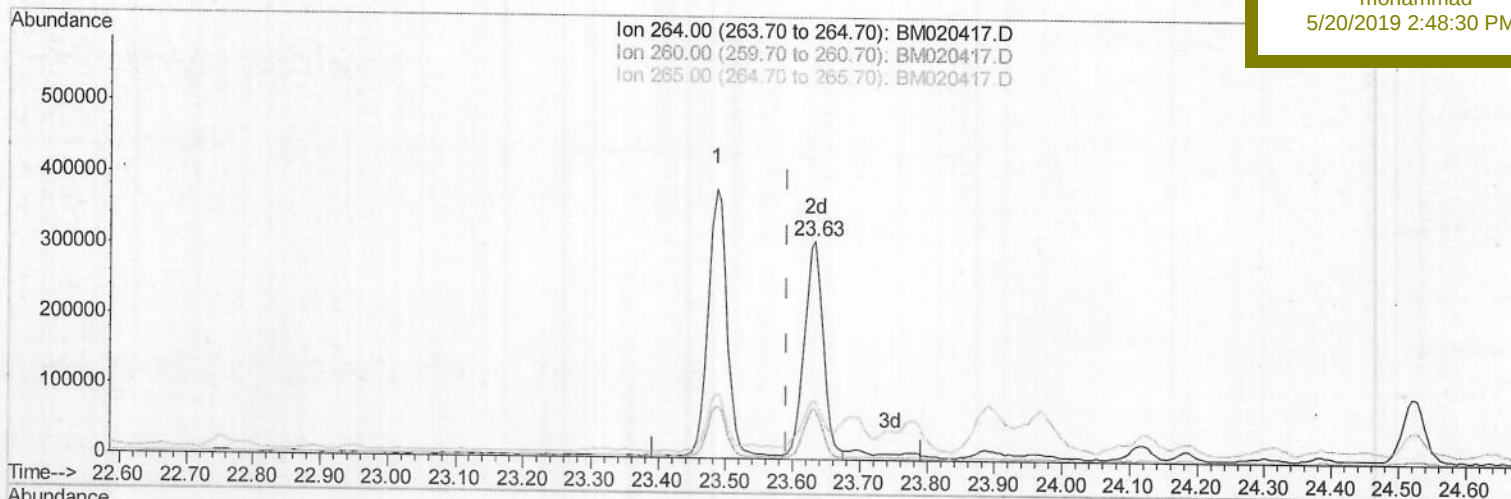
Response via : Initial Calibration

Instrument :

BNA_M

ClientSampleId :

GAJ96

Manual Integrations
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(85) Perylene-d12 (I)

23.633min (+0.041) 20.00ng/ul m

response 613900

Ion Exp% Act%

264.00 100 100

260.00 23.60 23.09

265.00 21.90 26.79#

0.00 0.00 0.00

J-U
05/21/19

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
Data File : BM020417.D
Acq On : 19 May 2019 02:17
Operator : JU/SJ
Sample : K2633-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

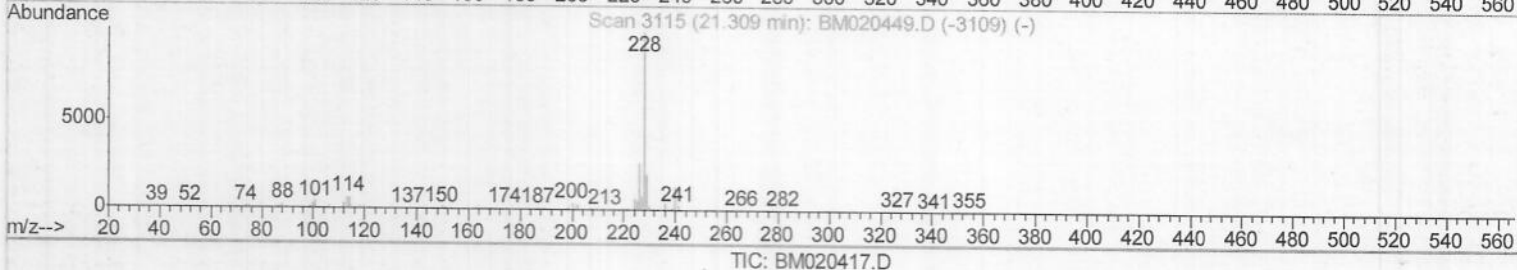
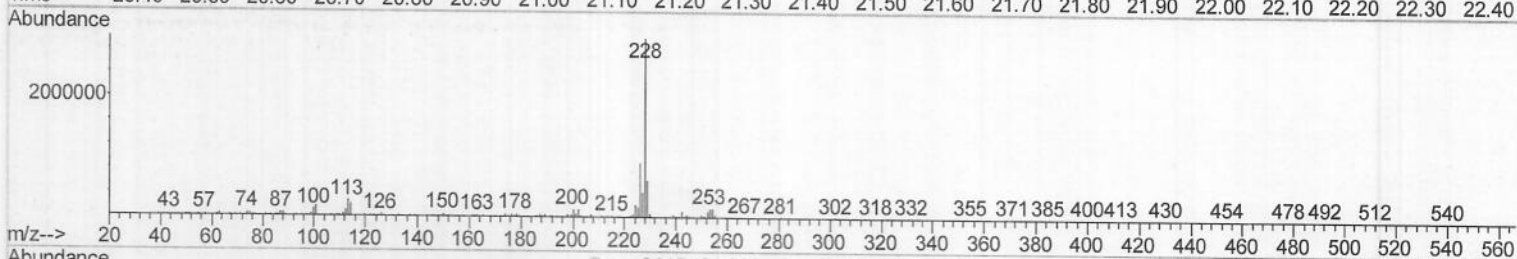
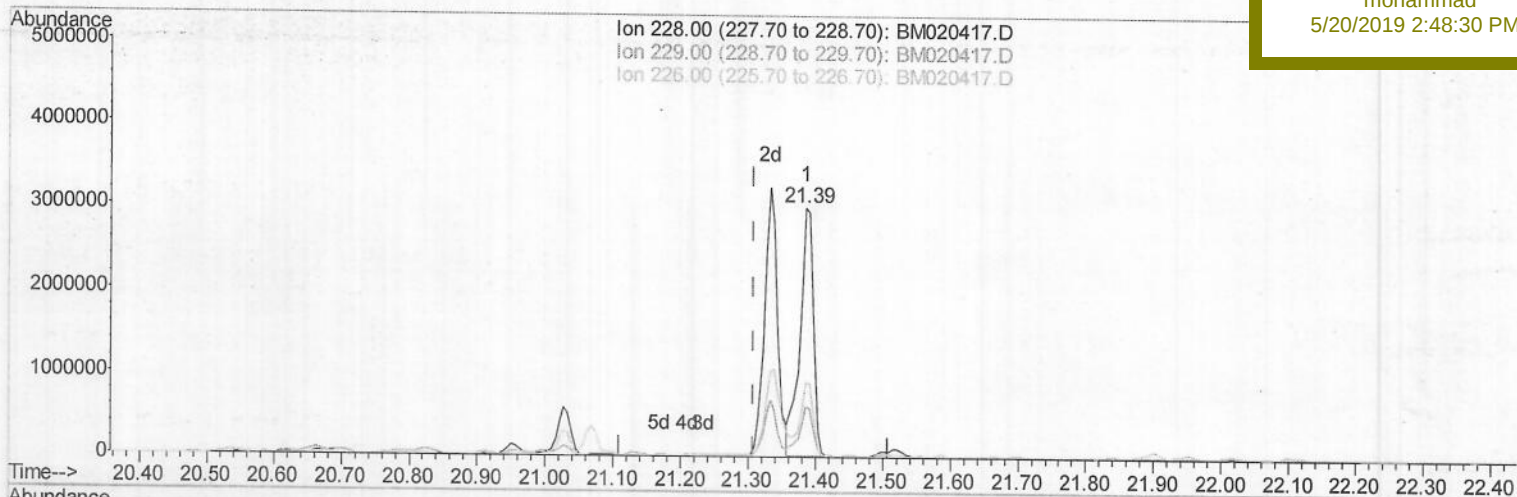
Quant Time: May 21 09:53:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 21 08:36:13 2019
Response via : Initial Calibration

Instrument :

BNA_M

ClientSampleId :

GAJ96

Manual Integrations
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(82) Benzo(a)anthracene

21.386min (+0.077) 136.97ng/ul

response 4153736

Ion	Exp%	Act%
228.00	100	100
229.00	19.80	20.61
226.00	25.70	30.31
0.00	0.00	0.00

Quantitation Report (Qedit)

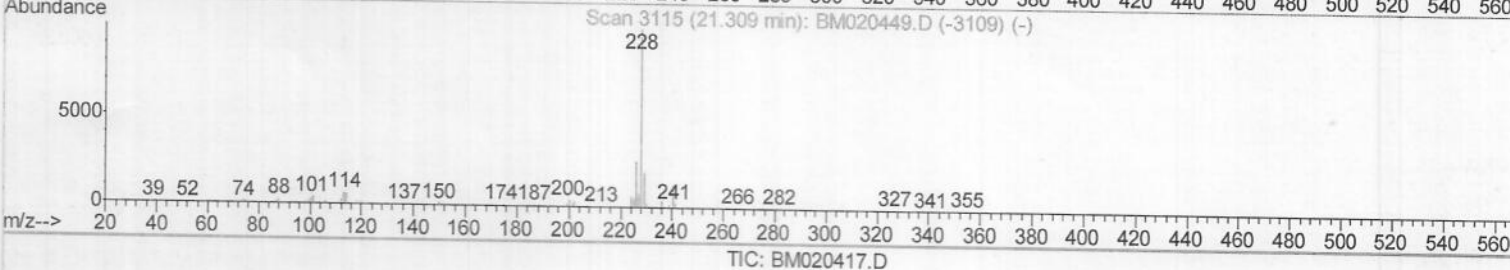
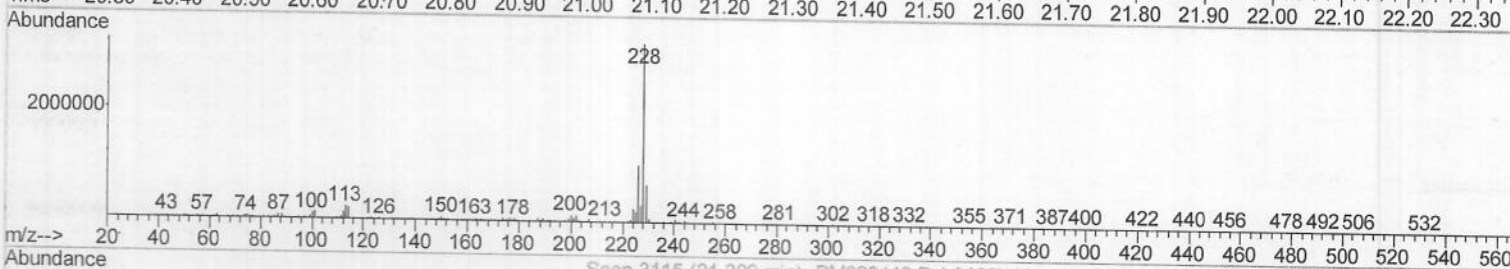
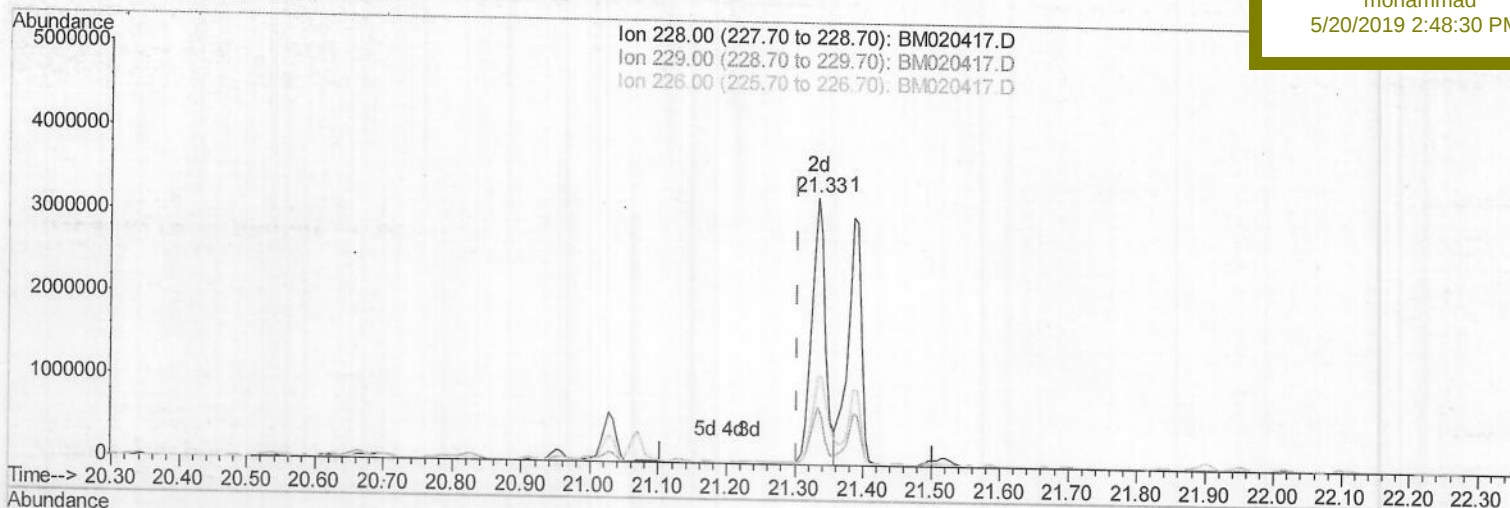
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
 Data File : BM020417.D
 Acq On : 19 May 2019 02:17
 Operator : JU/SJ
 Sample : K2633-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 10:45:52 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat May 18 05:13:49 2019
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 GAJ96

Manual Integrations
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(82) Benzo(a)anthracene

21.333min (+0.030) 148.94ng/ul m

response 4516968

Ion	Exp%	Act%
228.00	100	100
229.00	19.80	21.16
226.00	25.70	32.40#
0.00	0.00	0.00

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 05/21/19

TIC: BM020417.D

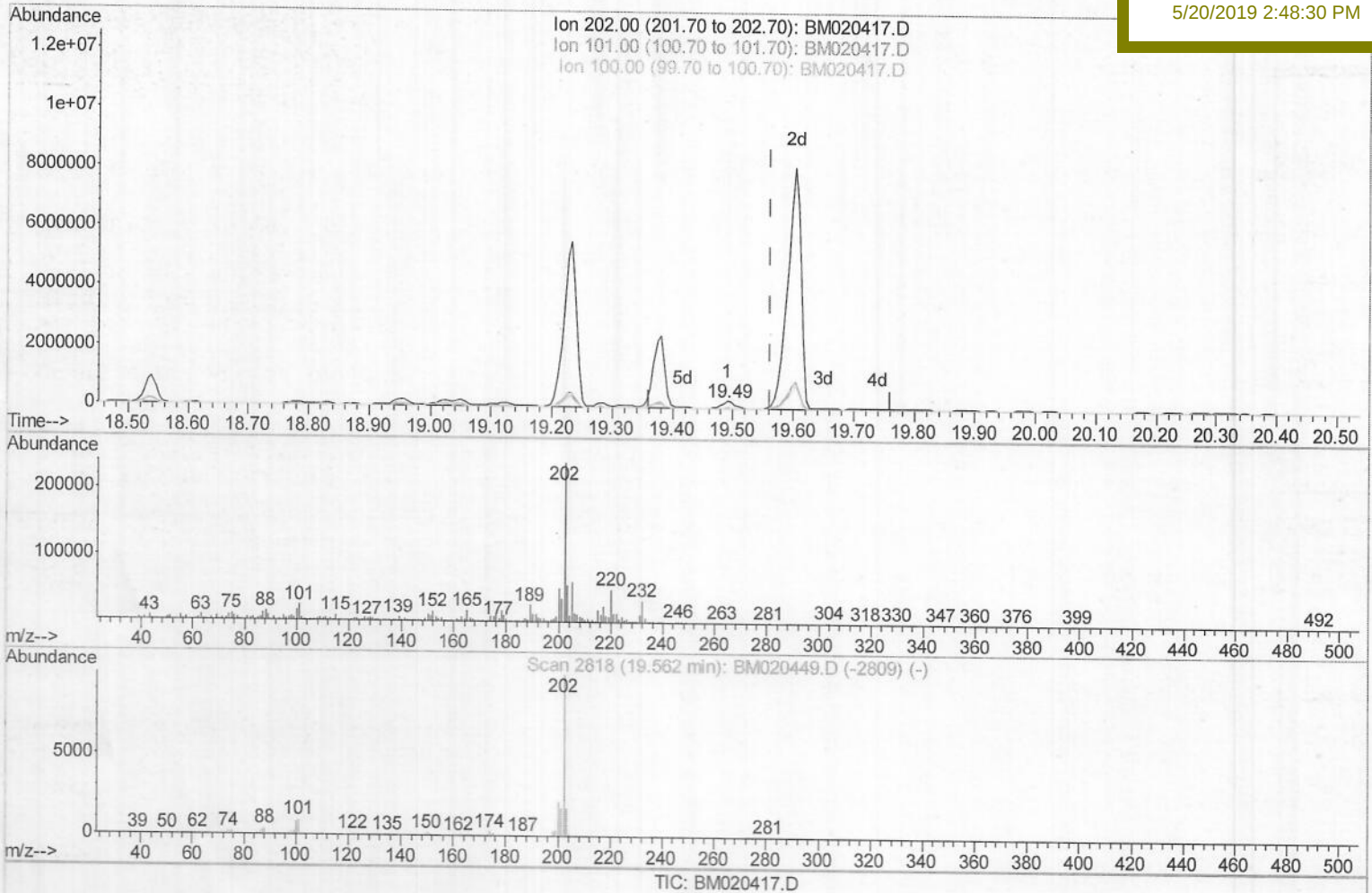
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
Data File : BM020417.D
Acq On : 19 May 2019 02:17
Operator : JU/SJ
Sample : K2633-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 21 09:53:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 21 08:36:13 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
GAJ96

Manual Integrations
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(79) Pyrene

19.492min (-0.070) 11.06ng/ul

response 334559

Ion	Exp%	Act%
202.00	100	100
101.00	8.90	10.16
100.00	7.40	6.80
0.00	0.00	0.00

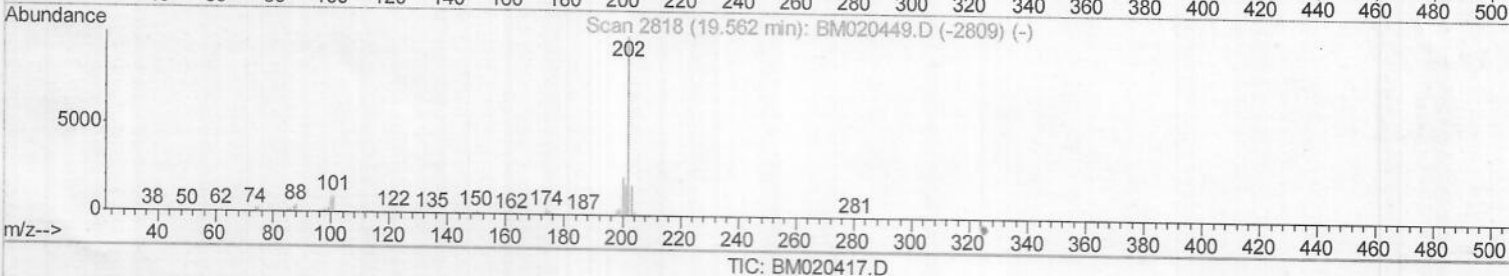
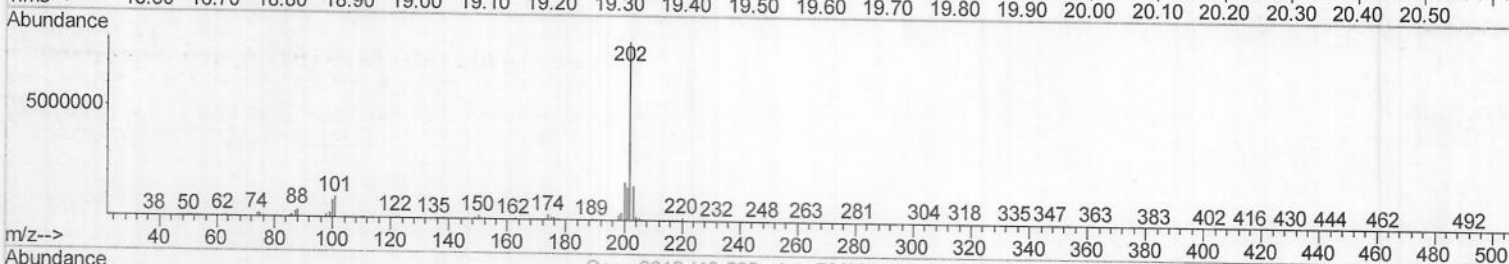
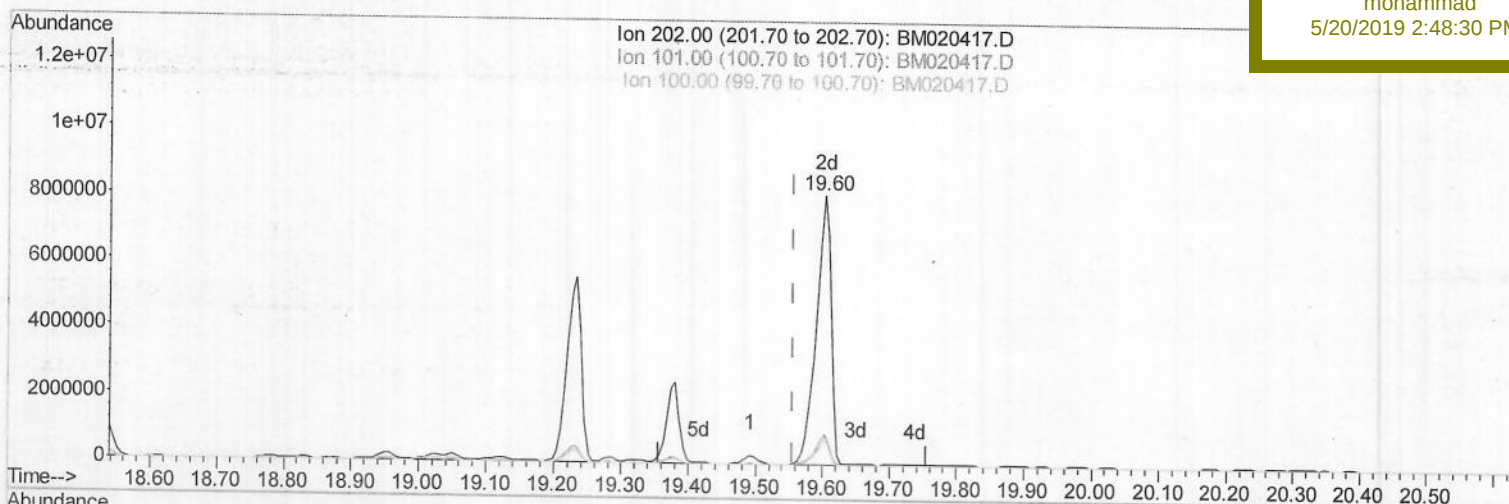
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
Data File : BM020417.D
Acq On : 19 May 2019 02:17
Operator : JU/SJ
Sample : K2633-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 10:45:52 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 05:13:49 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
GAJ96

Manual Integrations
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5/20/2019 2:48:30 PM



(79) Pyrene

19.604min (+0.047) 411.64ng/ul m

response 12449329

Ion	Exp%	Act%
202.00	100	100
101.00	8.90	11.54#
100.00	7.40	9.83#
0.00	0.00	0.00

J.U
05/21/19

Quantitation Report (Qedit)

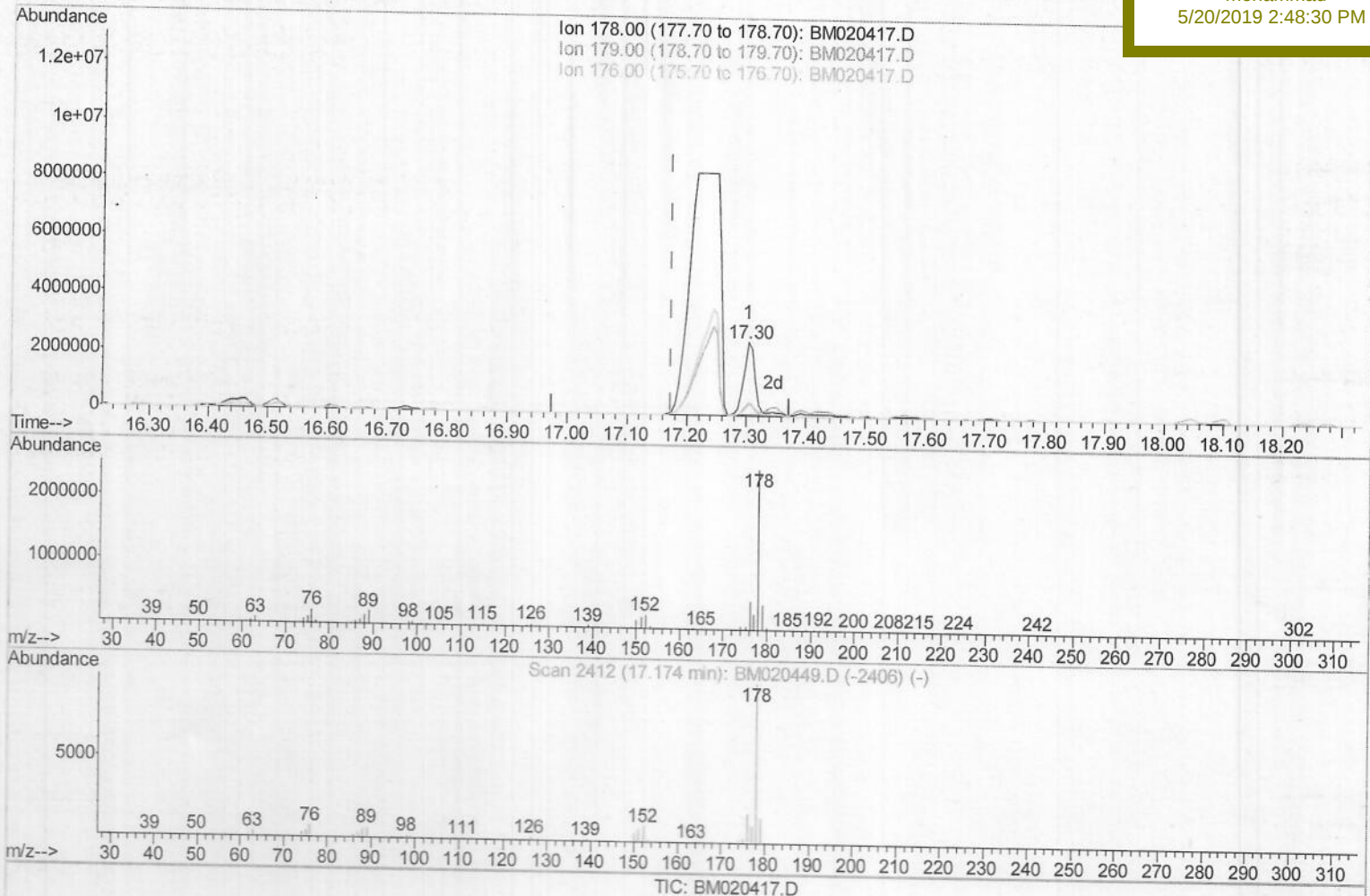
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
 Data File : BM020417.D
 Acq On : 19 May 2019 02:17
 Operator : JU/SJ
 Sample : K2633-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 21 09:53:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 21 08:36:13 2019
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 GAJ96

Manual Integrations
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 5/20/2019 2:48:30 PM



(69) Phenanthrene

17.304min (+0.130) 138.38ng/ul

response 3170398

Ion	Exp%	Act%
178.00	100	100
179.00	14.90	16.00
176.00	18.30	17.77
0.00	0.00	0.00

Quantitation Report (Qedit)

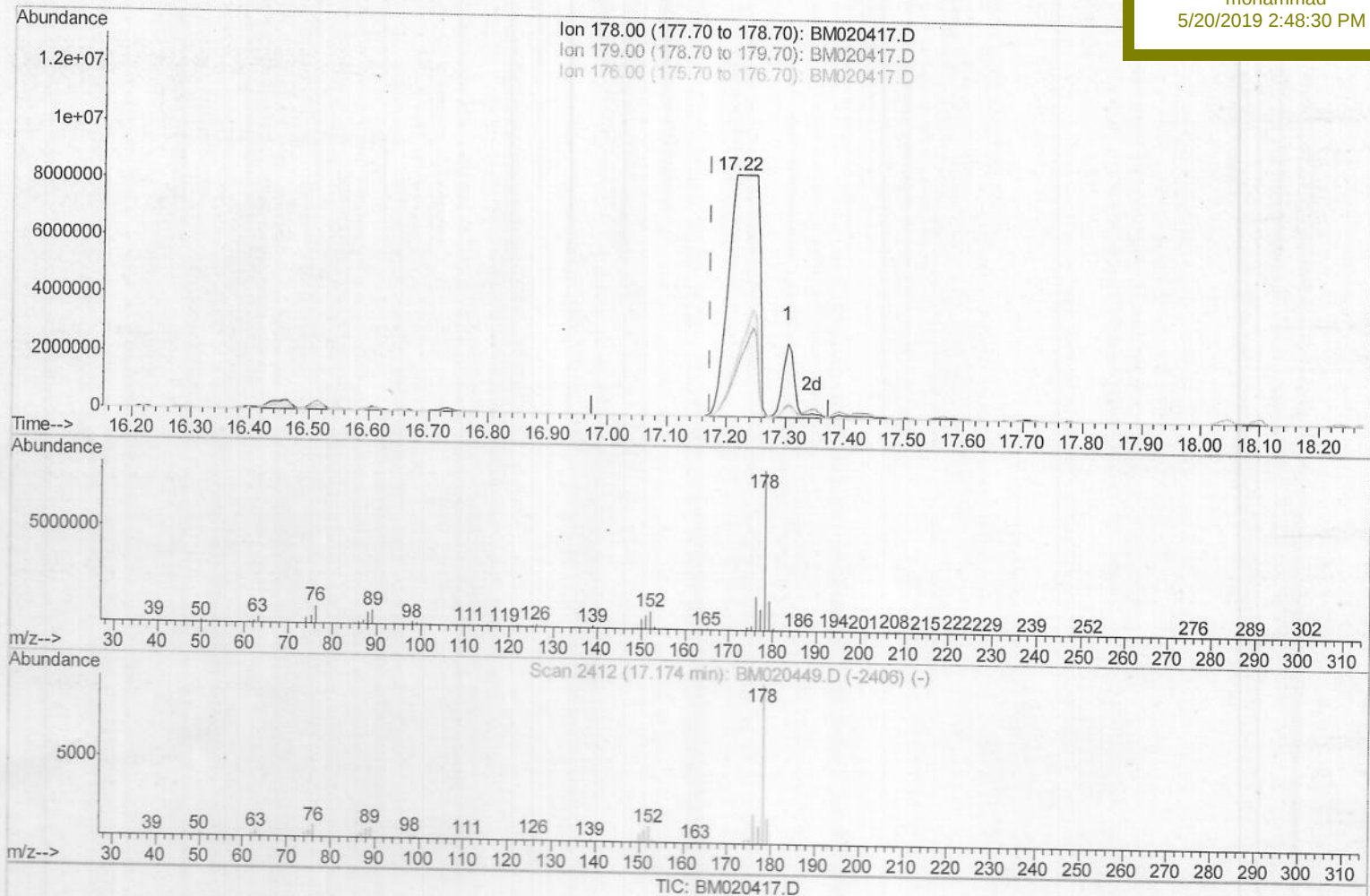
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM051819\
 Data File : BM020417.D
 Acq On : 19 May 2019 02:17
 Operator : JU/SJ
 Sample : K2633-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 10:45:52 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat May 18 05:13:49 2019
 Response via : Initial Calibration

Instrument :
 BNA_M
 ClientSampleId :
 GAJ96

Manual Integrations
 APPROVED

mohammad
 5/20/2019 2:48:30 PM



(69) Phenanthrene

17.215min (+0.041) 1302.24ng/ul m

response 29835438

Ion	Exp%	Act%
178.00	100	100
179.00	14.90	18.35#
176.00	18.30	21.08
0.00	0.00	0.00

J. U
 05/21/19