

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052219\
 Data File : BM020501.D
 Acq On : 22 May 2019 20:58
 Operator : JU/SJ
 Sample : K2925-12
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4297

Manual Integrations
 APPROVED

mohammad
 5/23/2019 2:22:17 PM

Quant Time: May 23 09:09:08 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu May 23 07:52:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.68	152	76825	20.00	ng/ul	0.00
18) Naphthalene-d8	10.47	136	296912	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.34	164	184419	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.09	188	451946	20.00	ng/ul	0.00
77) Chrysene-d12	21.29	240	506949	20.00	ng/ul	0.00
85) Perylene-d12	23.54	264	603306	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.16	96	7609m	3.66	ng/uL	0.01
5) Phenol-d5	6.86	99	97643	15.93	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.02	67	64337	16.51	ng/ul	0.00
9) 2-Chlorophenol-d4	7.21	132	78895	17.55	ng/ul	0.00
13) 4-Methylphenol-d8	8.39	113	63369	14.20	ng/ul	0.00
19) Nitrobenzene-d5	8.85	128	35866	18.57	ng/ul	0.00
22) 2-Nitrophenol-d4	9.56	143	41325	19.40	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.10	165	82174	18.24	ng/ul	0.00
29) 4-Chloroaniline-d4	10.62	131	55795	11.99	ng/ul	0.00
43) Dimethylphthalate-d6	13.75	166	249186	18.78	ng/ul	0.00
46) Acenaphthylene-d8	14.03	160	296937	17.89	ng/ul	0.00
51) 4-Nitrophenol-d4	14.57	143	18059m	9.37	ng/ul	0.00
57) Fluorene-d10	15.33	176	218924	18.55	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.49	200	19970	7.76	ng/ul	0.00
70) Anthracene-d10	17.19	188	345817	17.84	ng/ul	0.00
78) Pyrene-d10	19.50	212	412656	16.90	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.40	264	461942	16.85	ng/ul	0.00

Target Compounds

					Ovalue	
28) Naphthalene	10.52	128	44267	3.245	ng/ul	99
34) 2-Methylnaphthalene	12.14	142	42627	4.316	ng/ul	96
40) 1,1'-Biphenyl	13.16	154	21046	1.594	ng/ul	99
44) Dimethylphthalate	13.80	163	70172	5.346	ng/ul	99
47) Acenaphthylene	14.06	152	80806	5.163	ng/ul#	96
49) Acenaphthene	14.40	153	120906	11.237	ng/ul	100
53) Dibenzofuran	14.74	168	184985	11.353	ng/ul	97
58) Fluorene	15.39	166	196001	15.016	ng/ul	99
69) Phenanthrene	17.14	178	2942332	136.636	ng/ul	99
71) Anthracene	17.23	178	777800	35.508	ng/ul	99
74) Carbazole	17.50	167	195872	10.535	ng/ul	97
76) Fluoranthene	19.17	202	4851400	178.348	ng/ul	98
79) Pyrene	19.53	202	4109935	135.070	ng/ul	100
82) Benzo(a)anthracene	21.28	228	2528232	82.860	ng/ul	94
83) Bis(2-ethylhexyl)phthalate	21.19	149	23568	1.702	ng/ul#	97
84) Chrysene	21.33	228	1983707	68.030	ng/ul	95
87) Benzo(b)fluoranthene	22.87	252	2512171	72.960	ng/ul	97
88) Benzo(k)fluoranthene	22.91	252	912998m	26.995	ng/ul	
90) Benzo(a)pyrene	23.46	252	1919437	59.235	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.84	276	1152850	31.223	ng/ul#	96
92) Dibenzo(a,h)anthracene	25.84	278	346527	10.975	ng/ul#	87
93) Benzo(a,h,i)perylene	26.54	276	881126	28.829	ng/ul	97

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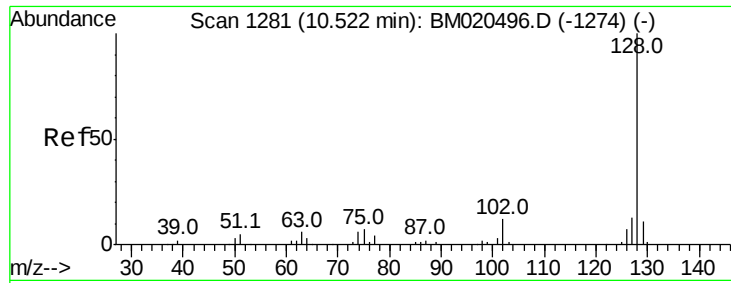
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



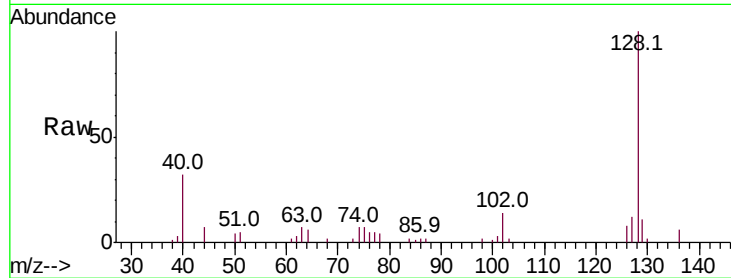
#28
Naphthalene
Concen: 3.245 ng/ul
RT: 10.52 min Scan# 1280
Delta R.T. -0.01 min
Lab File: BM020501.D
Acq: 22 May 2019 20:58

Instrument :
BNA_M
ClientSampleId :
A4297

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	13.0
127	12.5	10.6	15.8

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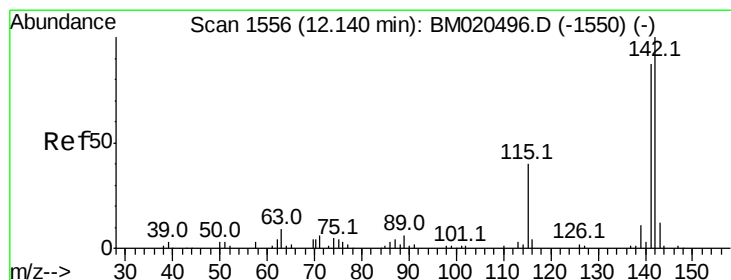
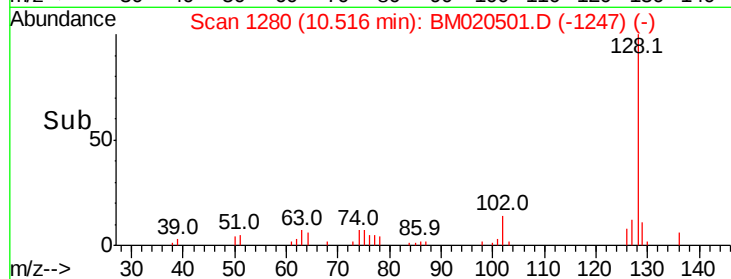
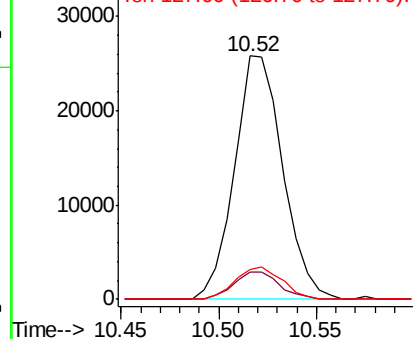


Abundance

Ion 128.00 (127.70 to 128.70): E

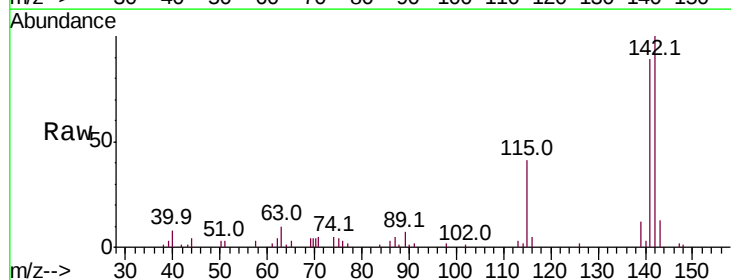
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34
2-Methylnaphthalene
Concen: 4.316 ng/ul
RT: 12.14 min Scan# 1556
Delta R.T. -0.00 min
Lab File: BM020501.D
Acq: 22 May 2019 20:58

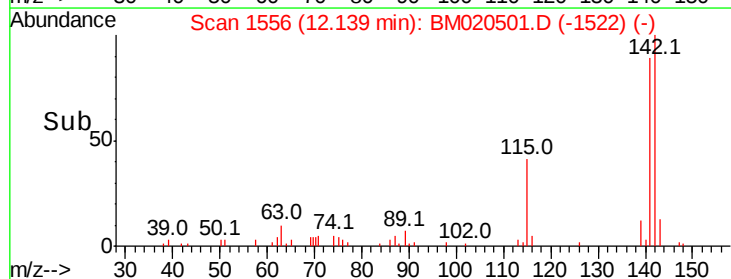
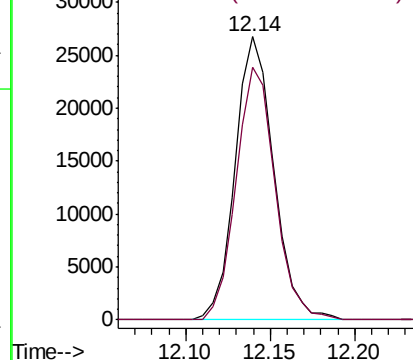
Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.3	68.6	102.8

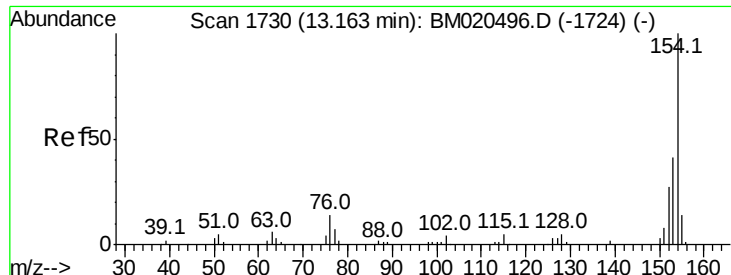


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





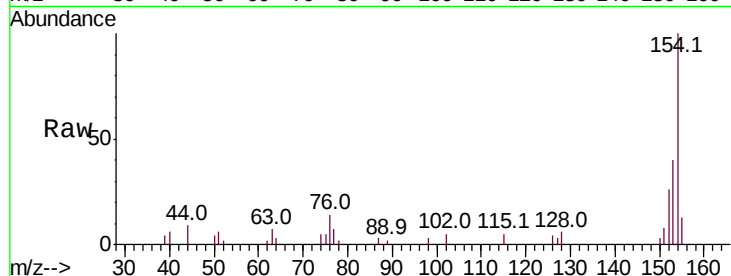
#40
1,1'-Biphenyl
Concen: 1.594 ng/ul
RT: 13.16 min Scan# 1730
Delta R.T. -0.00 min
Lab File: BM020501.D
Acq: 22 May 2019 20:58

Instrument :
BNA_M
ClientSampleId :
A4297

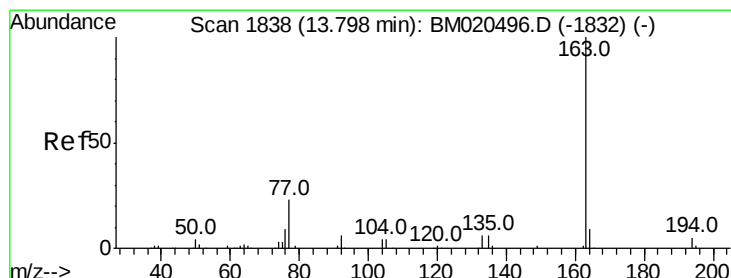
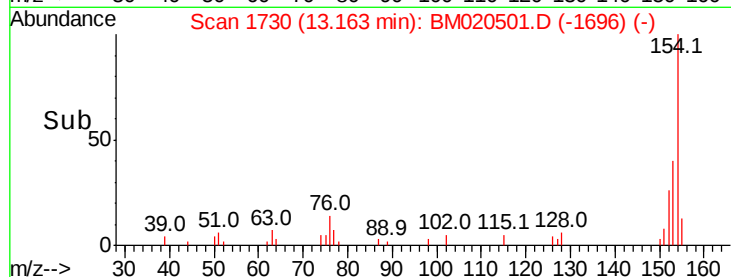
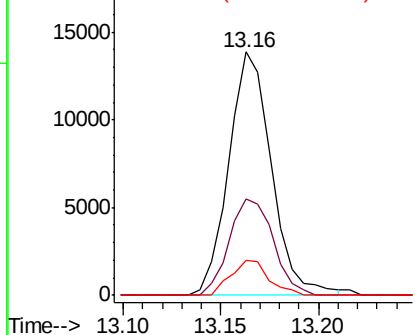
Tot Ion	Ratio	Lower	Upper
154	100		
153	39.8	32.2	48.4
76	14.3	11.0	16.4

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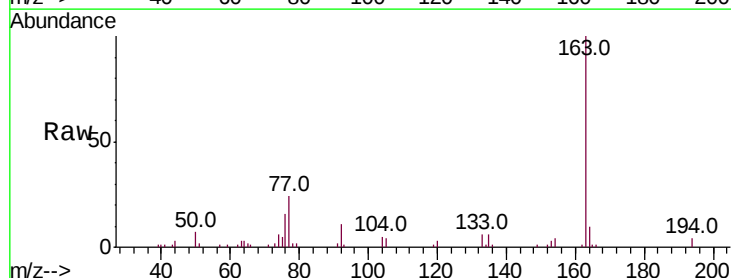


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BM

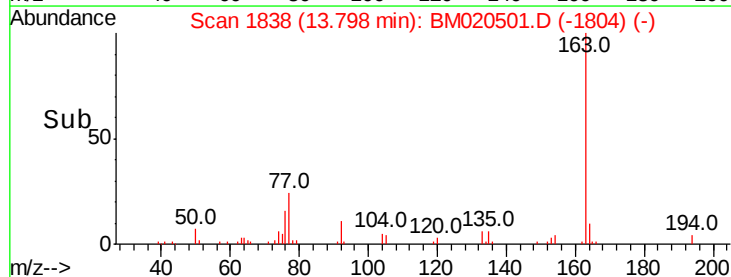
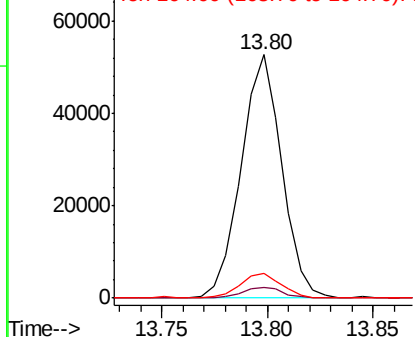


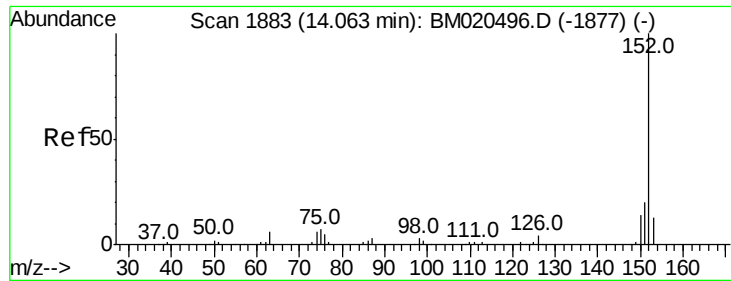
#44
Dimethylphthalate
Concen: 5.346 ng/ul
RT: 13.80 min Scan# 1838
Delta R.T. -0.00 min
Lab File: BM020501.D
Acq: 22 May 2019 20:58

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.3	4.9
164	10.4	8.0	12.0



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#47

Acenaphthylene

Concen: 5.163 ng/ul

RT: 14.06 min Scan# 1883

Delta R.T. -0.00 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Instrument :

BNA_M

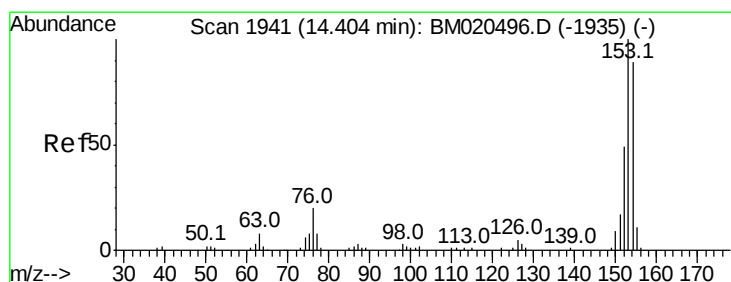
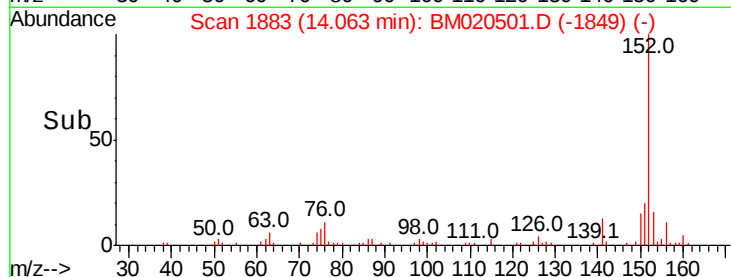
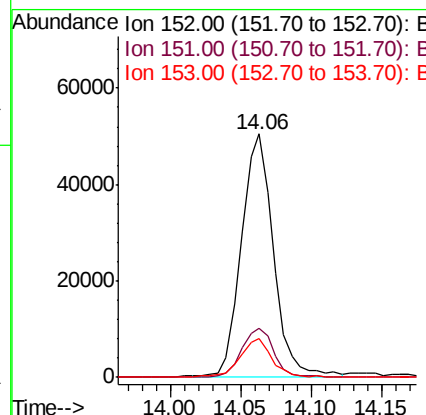
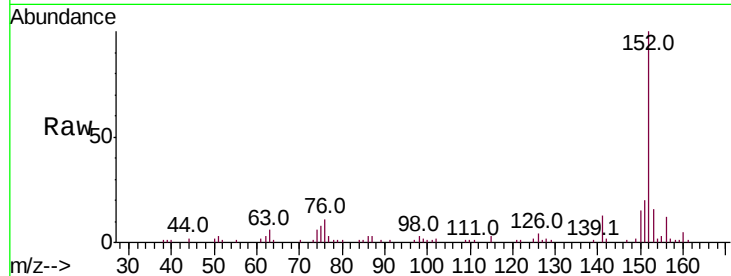
ClientSampleId :

A4297

Tot Ion:	152	Resp:	80806
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.4	23.0
153	15.9	10.3	15.5#

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#49

Acenaphthene

Concen: 11.237 ng/ul

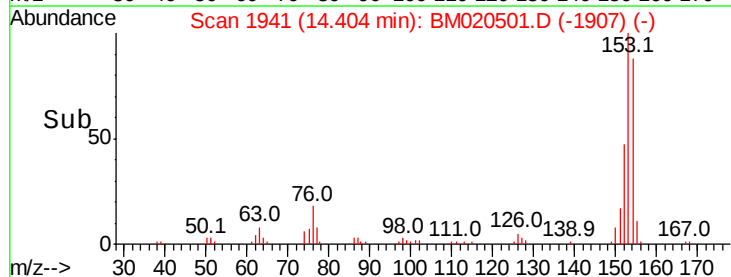
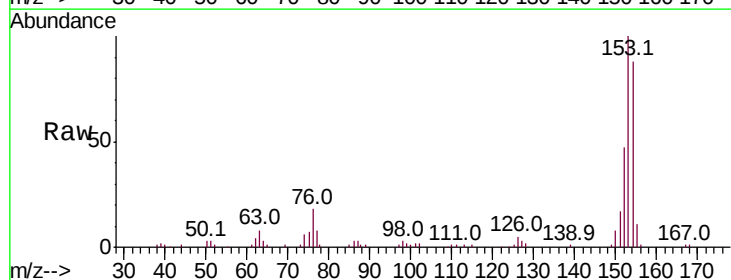
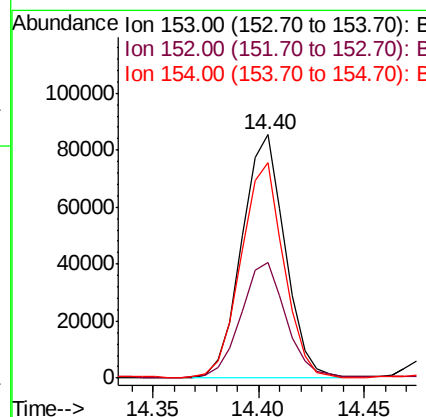
RT: 14.40 min Scan# 1941

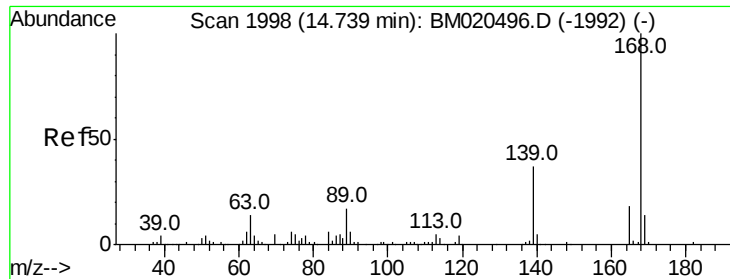
Delta R.T. -0.00 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Tgt Ion:	153	Resp:	120906
Ion Ratio	Lower	Upper	
153	100		
152	47.4	37.9	56.9
154	88.4	71.2	106.8





#53

Dibenzofuran

Concen: 11.353 ng/ul

RT: 14.74 min Scan# 1998

Delta R.T. -0.00 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Instrument :

BNA_M

ClientSampleId :

A4297

Tot Ion:168 Resp: 184985

Ion Ratio Lower Upper

168 100

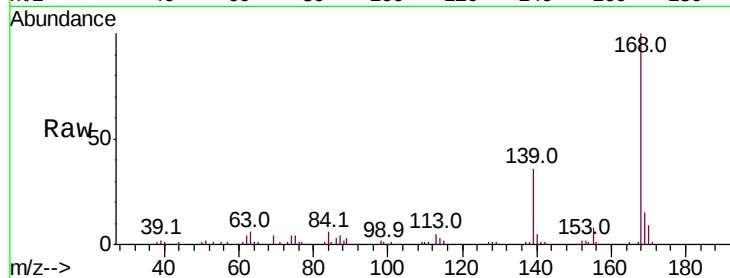
139 35.9 30.1 45.1

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

150000

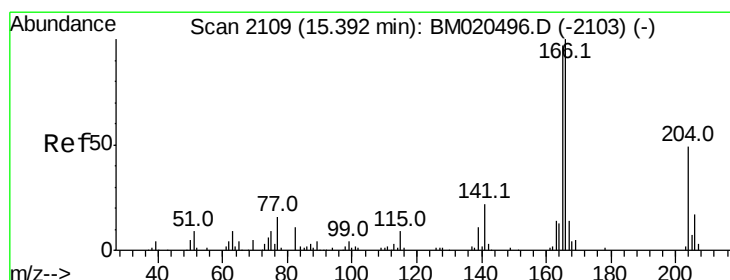
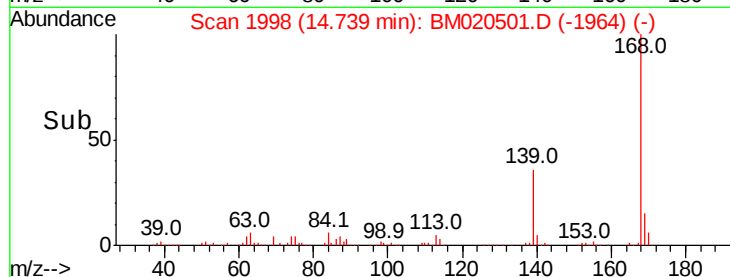
14.74

100000

50000

0

Time-->



#58

Fluorene

Concen: 15.016 ng/ul

RT: 15.39 min Scan# 2109

Delta R.T. -0.00 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

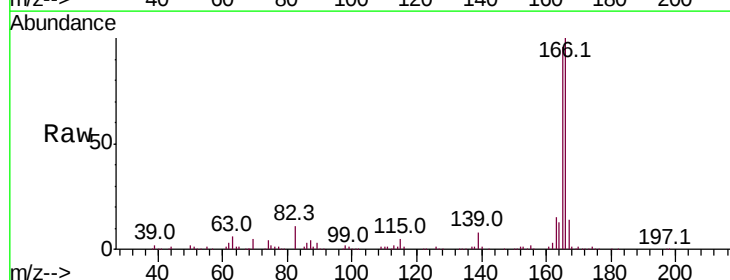
Tgt Ion:166 Resp: 196001

Ion Ratio Lower Upper

166 100

165 95.9 77.1 115.7

167 14.2 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

200000

15.39

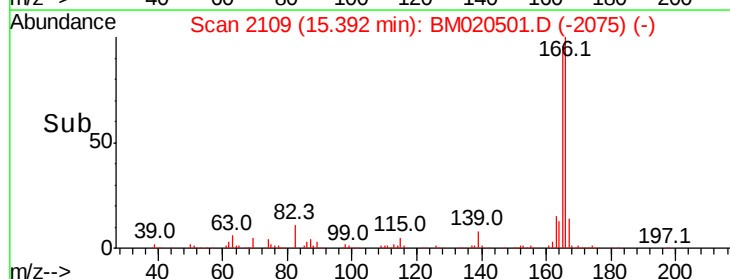
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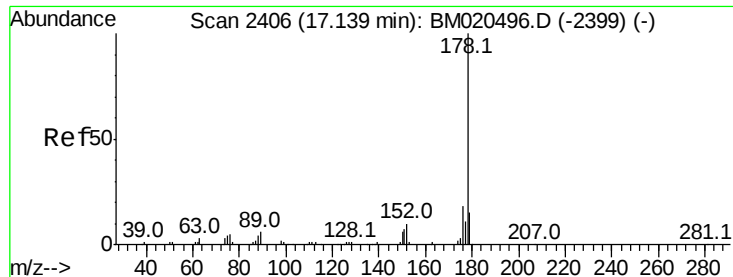
100000

50000

0

Time-->





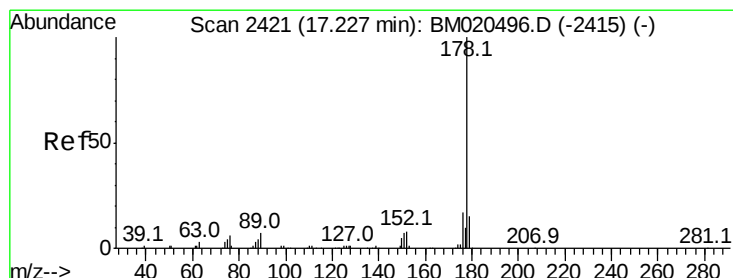
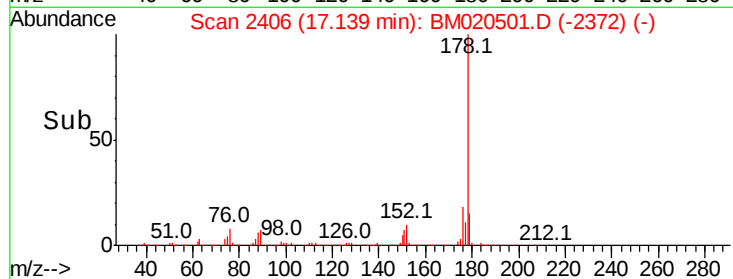
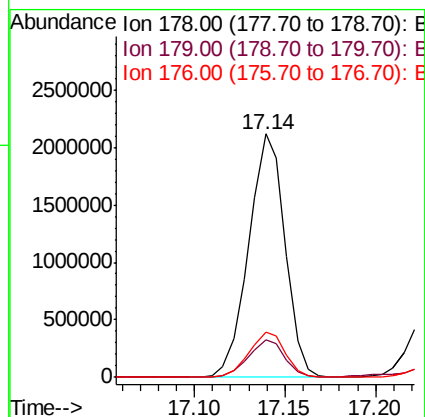
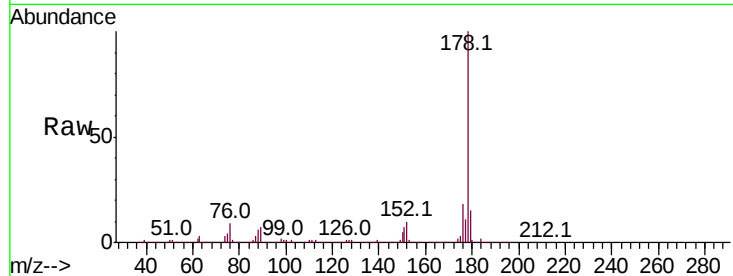
#69
 Phenanthrene
 Concen: 136.636 ng/ul
 RT: 17.14 min Scan# 2406
 Delta R.T. -0.00 min
 Lab File: BM020501.D
 Acq: 22 May 2019 20:58

Instrument :
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Tot Ion	Ratio	Lower	Upper
178	100		
179	15.4	11.9	17.9
176	18.4	14.6	22.0

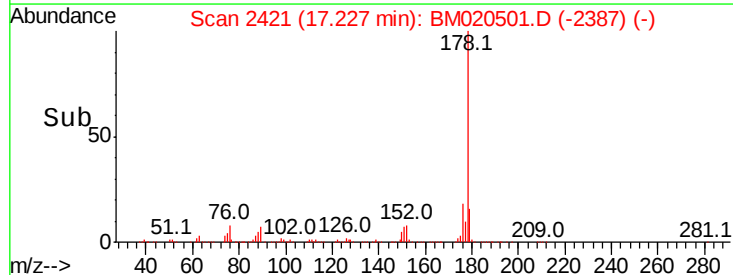
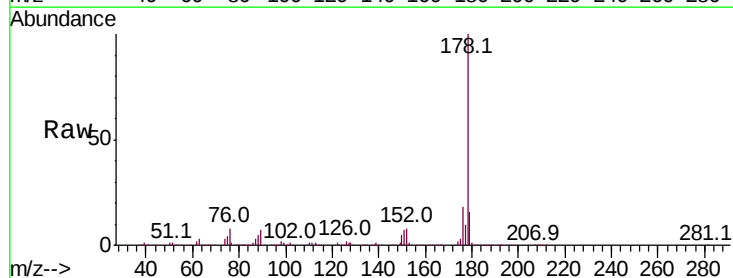
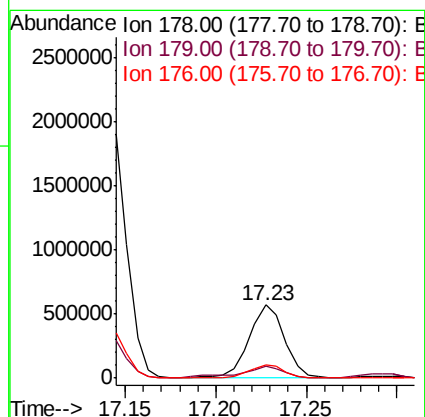
Manual Integrations
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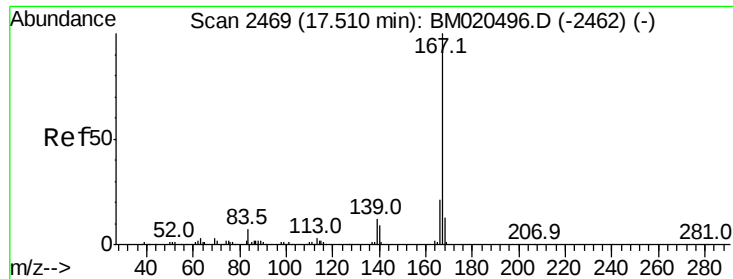
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#71
 Anthracene
 Concen: 35.508 ng/ul
 RT: 17.23 min Scan# 2421
 Delta R.T. -0.00 min
 Lab File: BM020501.D
 Acq: 22 May 2019 20:58

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.4	18.6
176	18.1	14.4	21.6





#74

Carbazole

Concen: 10.535 ng/ul

RT: 17.50 min Scan# 2468

Delta R.T. -0.01 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Instrument :

BNA_M

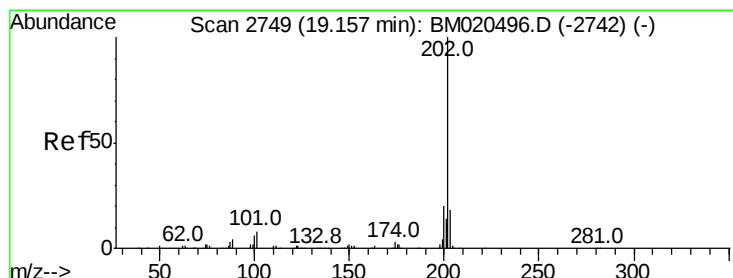
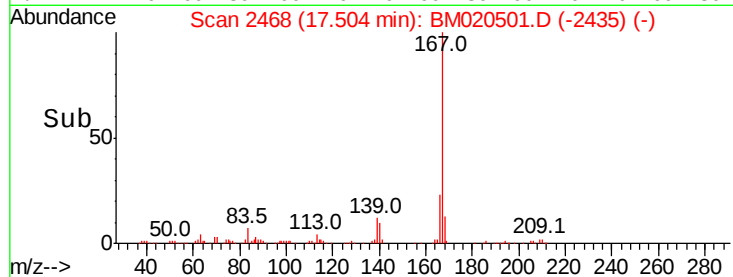
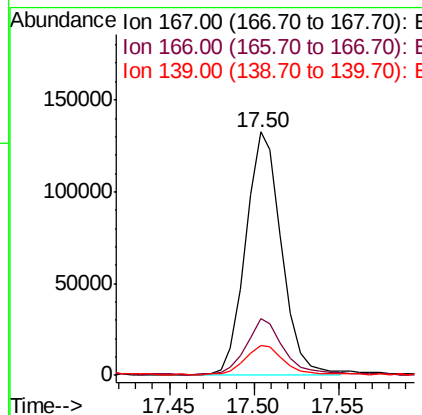
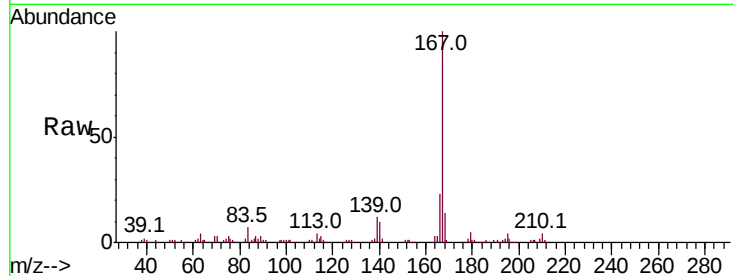
ClientSampleId :

A4297

Tot Ion:	167	Resp:	195872
Ion Ratio	Lower	Upper	
167	100		
166	23.1	16.6	24.8
139	12.3	9.8	14.8

Manual Integrations
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#76

Fluoranthene

Concen: 178.348 ng/ul

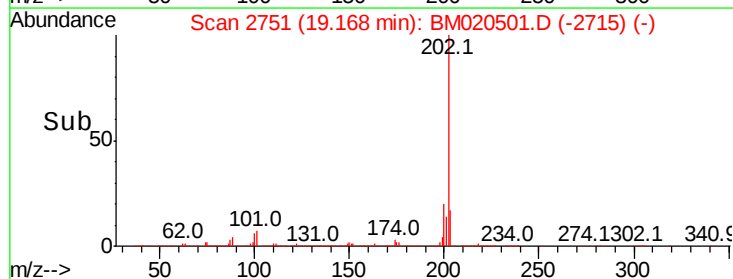
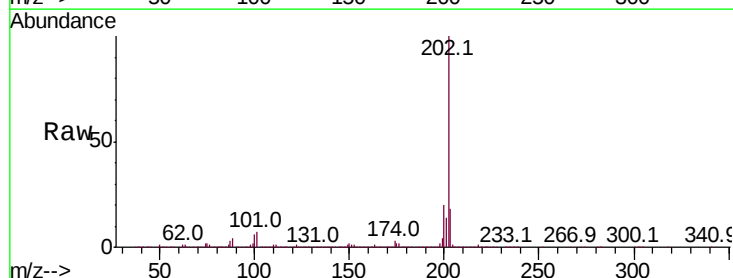
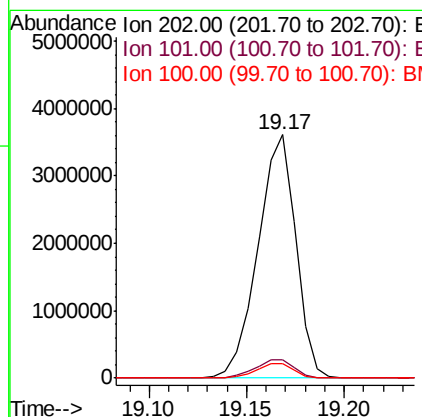
RT: 19.17 min Scan# 2751

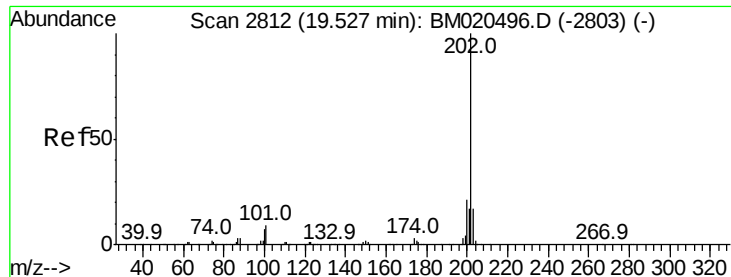
Delta R.T. 0.01 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Tgt Ion:	202	Resp:	4851400
Ion Ratio	Lower	Upper	
202	100		
101	7.5	6.4	9.6
100	5.9	5.2	7.8





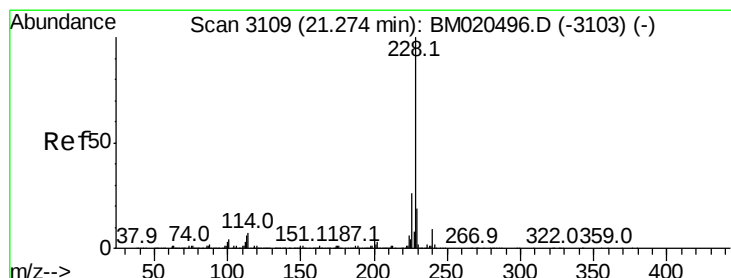
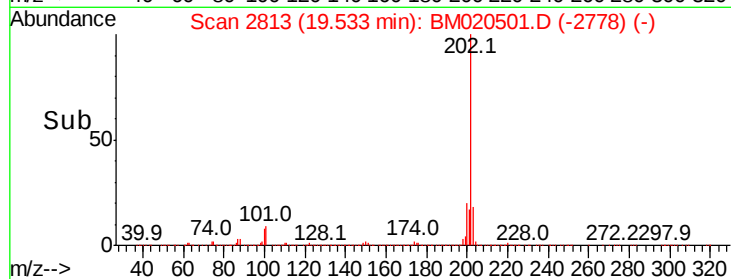
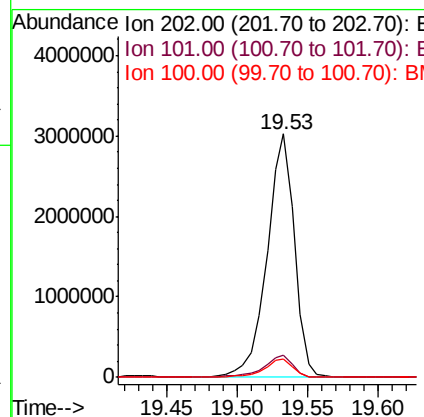
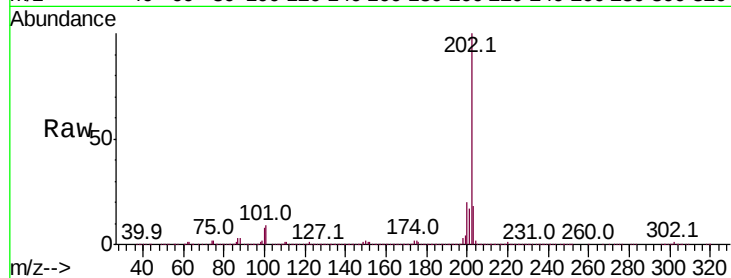
#79
Pvrene
Concen: 135.070 ng/ul
RT: 19.53 min Scan# 2813
Delta R.T. 0.01 min
Lab File: BM020501.D
Acq: 22 May 2019 20:58

Instrument :
BNA_M
ClientSampleId :
A4297

Tot Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.1	10.7
100	7.6	5.9	8.9

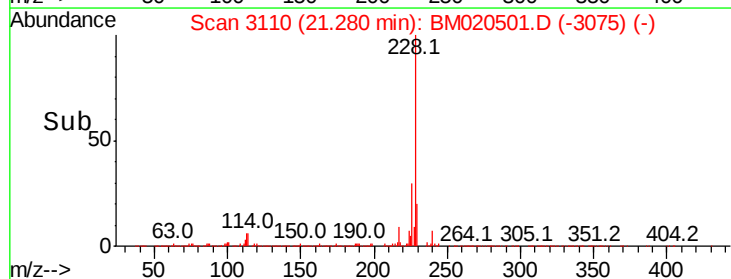
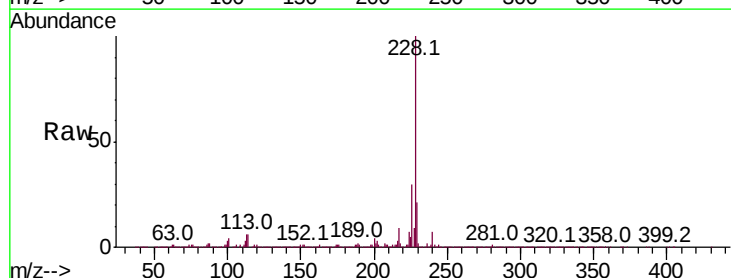
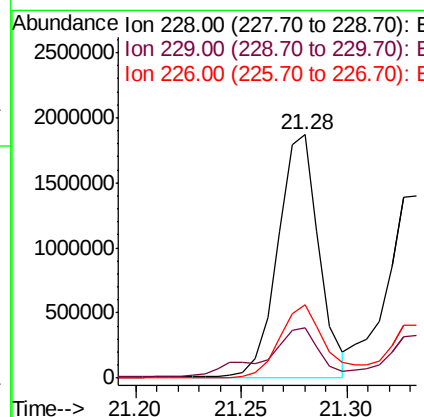
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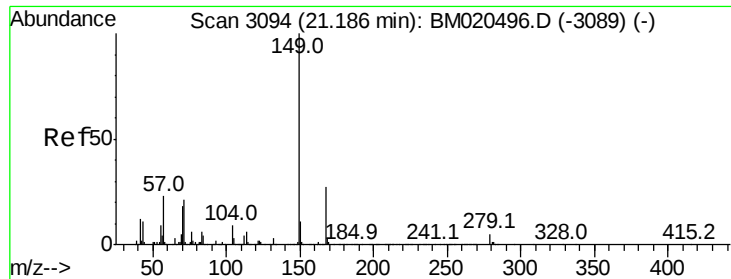
mohammad
5/23/2019 2:22:17 PM



#82
Benzo(a)anthracene
Concen: 82.860 ng/ul
RT: 21.28 min Scan# 3110
Delta R.T. 0.01 min
Lab File: BM020501.D
Acq: 22 May 2019 20:58

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.6	15.8	23.8
226	30.1	20.6	30.8





#83

Bis(2-ethylhexyl)phthalate

Concen: 1.702 ng/ul

RT: 21.19 min Scan# 3094

Delta R.T. -0.00 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Instrument :

BNA_M

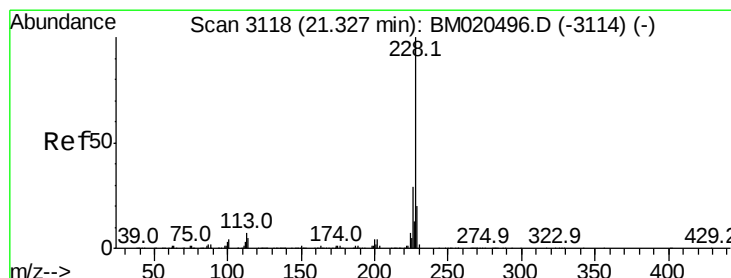
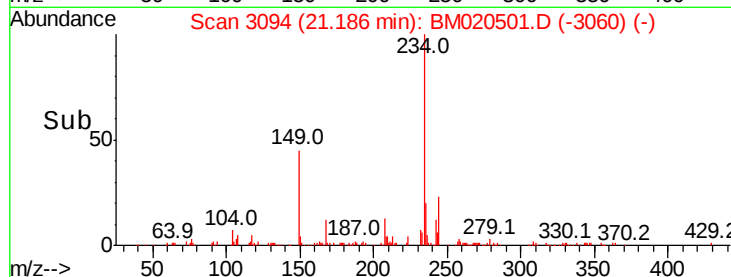
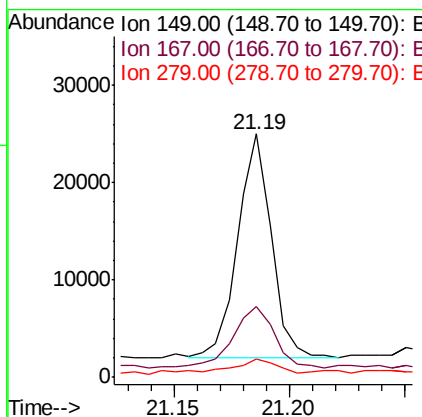
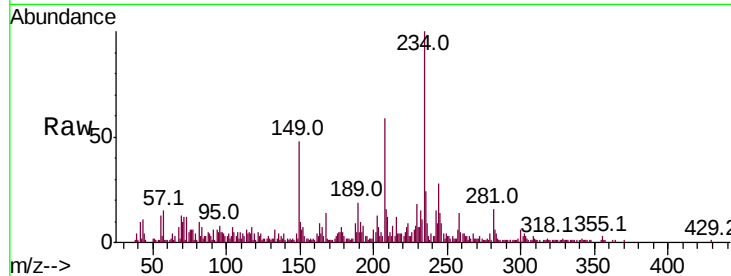
ClientSampleId :

A4297

Tot Ion:	149	Resp:	23568
Ion Ratio	Lower	Upper	
149	100		
167	29.1	22.5	33.7
279	7.3	4.2	6.2

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#84

Chrysene

Concen: 68.030 ng/ul

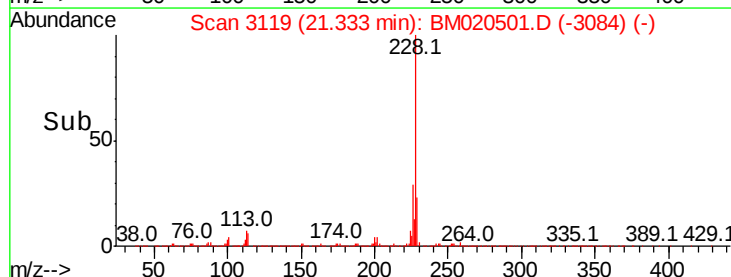
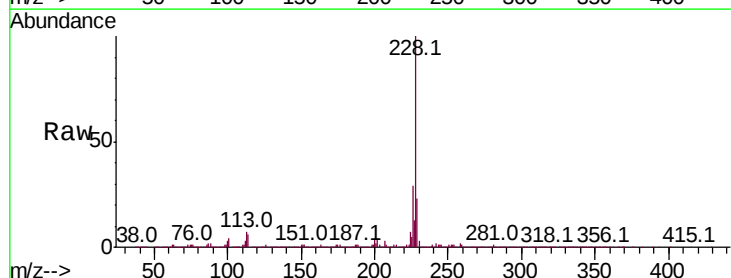
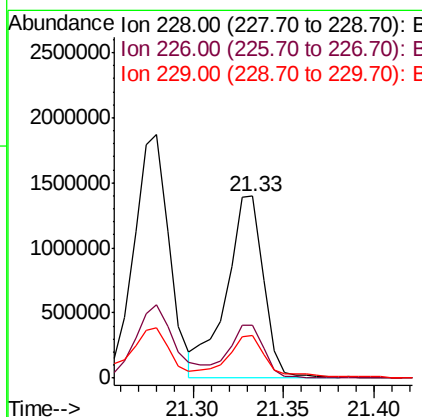
RT: 21.33 min Scan# 3119

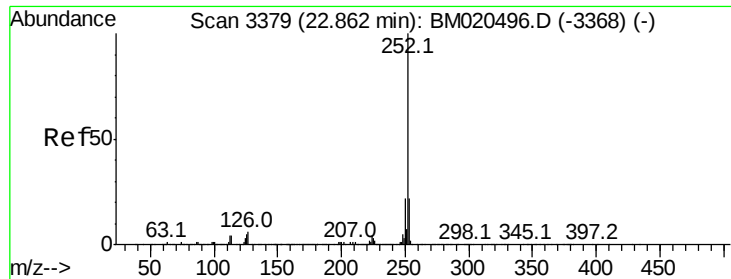
Delta R.T. 0.01 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Tgt Ion:	228	Resp:	1983707
Ion Ratio	Lower	Upper	
228	100		
226	29.2	22.2	33.4
229	23.2	15.4	23.2





#87

Benzo(b)fluoranthene

Concen: 72.960 ng/ul

RT: 22.87 min Scan# 3381

Delta R.T. 0.01 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Instrument :

BNA_M

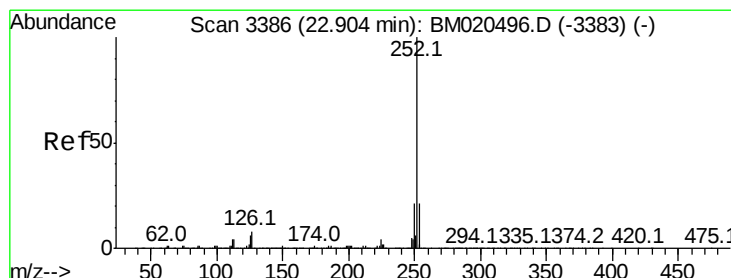
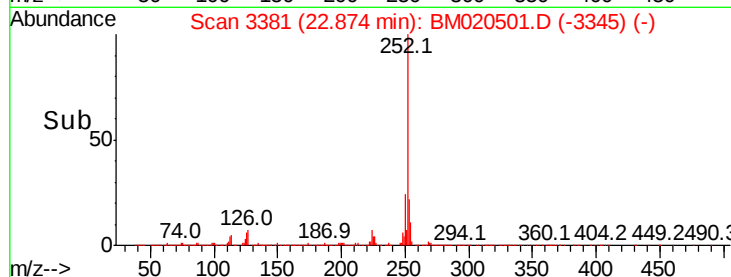
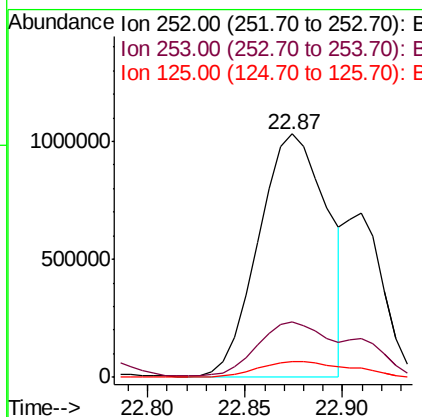
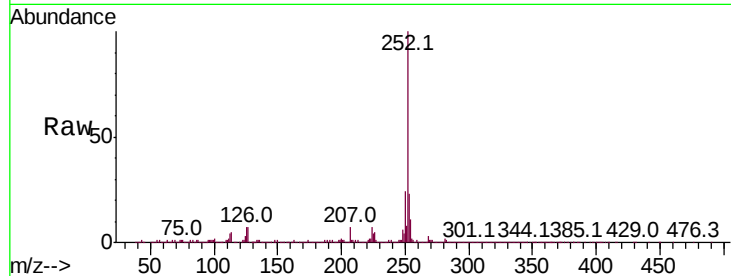
ClientSampleId :

A4297

Tot Ion:	252	Resp:	2512171
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.0	25.6
125	6.5	5.0	7.4

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#88

Benzo(k)fluoranthene

Concen: 26.995 ng/ul m

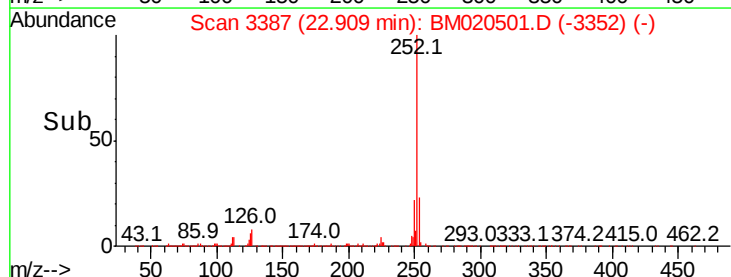
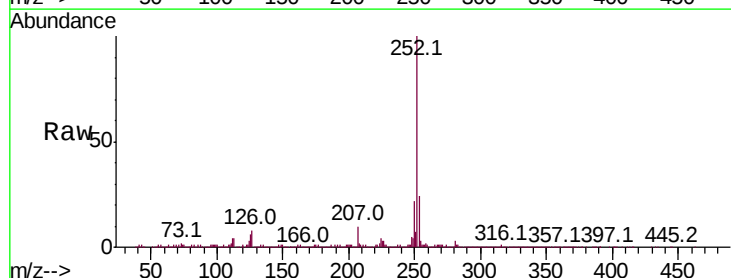
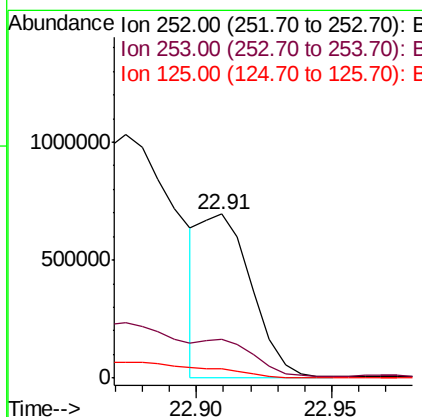
RT: 22.91 min Scan# 3387

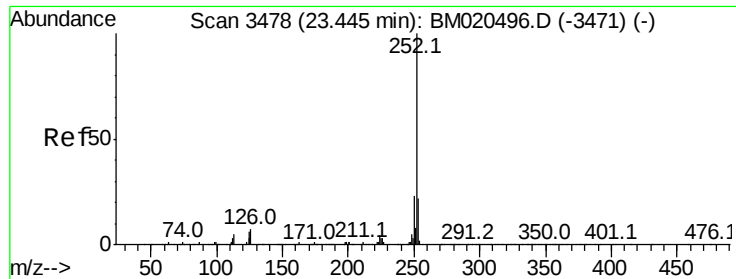
Delta R.T. 0.01 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Tgt Ion:	252	Resp:	912998
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.6	26.4
125	5.9	5.0	7.6





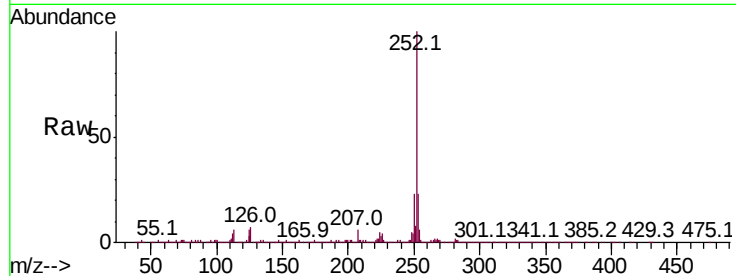
#90
Benzo(a)pyrene
Concen: 59.235 ng/ul
RT: 23.46 min Scan# 3480
Delta R.T. 0.01 min
Lab File: BM020501.D
Acq: 22 May 2019 20:58

Instrument :
BNA_M
ClientSampled :
A4297

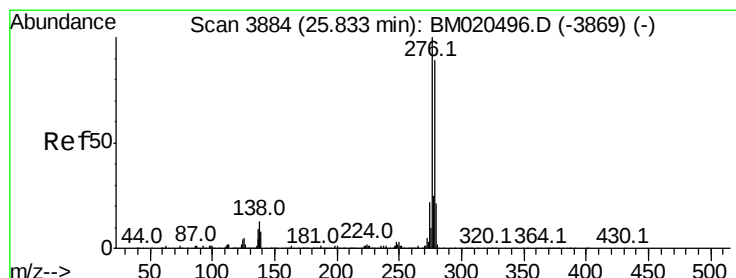
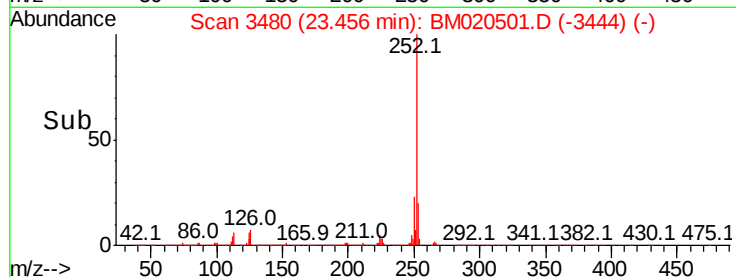
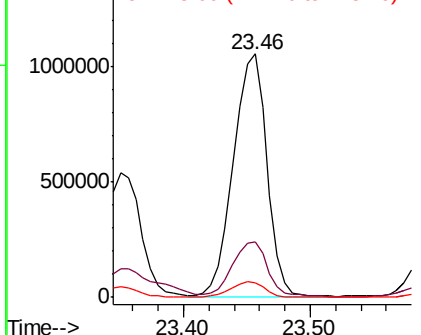
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	5.9	5.4	8.2

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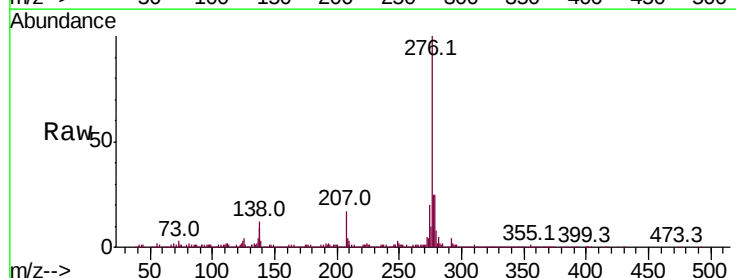


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

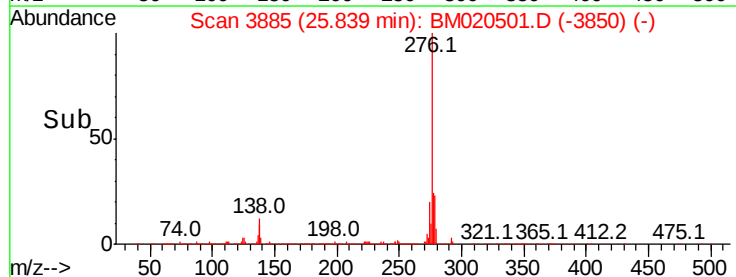
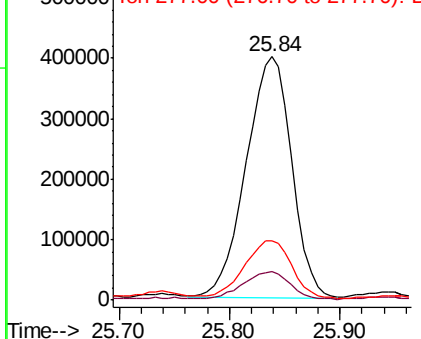


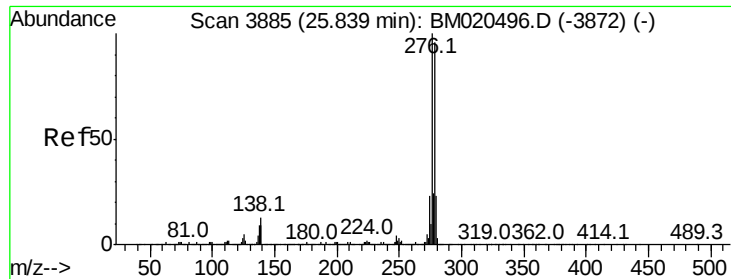
#91
Indeno(1,2,3-cd)pyrene
Concen: 31.223 ng/ul
RT: 25.84 min Scan# 3885
Delta R.T. 0.01 min
Lab File: BM020501.D
Acq: 22 May 2019 20:58

Tgt Ion	Ratio	Lower	Upper
276	100		
138	11.9	12.3	18.5#
277	24.6	20.0	30.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





#92

Dibenzo(a,h)anthracene

Concen: 10.975 ng/ul

RT: 25.84 min Scan# 3885

Delta R.T. -0.00 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Instrument :

BNA_M

ClientSampleId :

A4297

Tot Ion:278 Resp: 346527

Ion Ratio Lower Upper

278 100

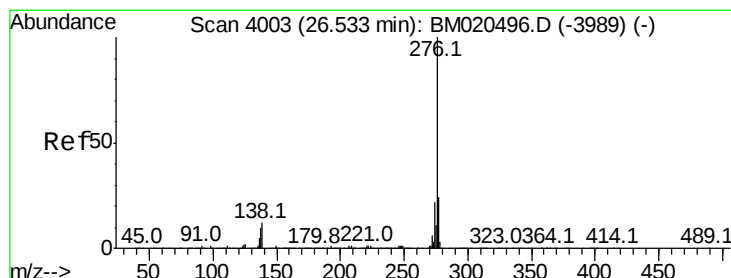
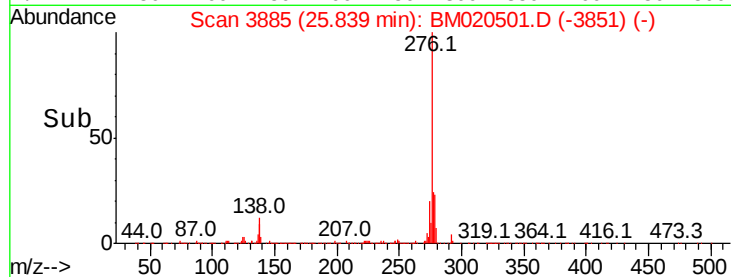
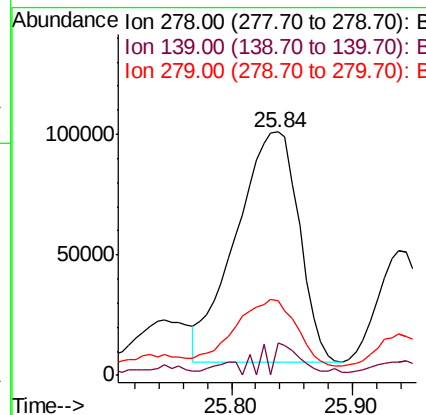
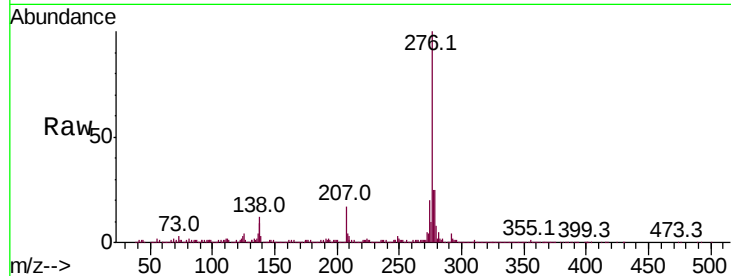
139 13.5 8.1 12.1#

279 30.5 18.7 28.1#

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#93

Benzo(g,h,i)perylene

Concen: 28.829 ng/ul

RT: 26.54 min Scan# 4005

Delta R.T. 0.01 min

Lab File: BM020501.D

Acq: 22 May 2019 20:58

Tgt Ion:276 Resp: 881126

Ion Ratio Lower Upper

276 100

138 11.9 10.0 15.0

277 24.6 18.2 27.4

