

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022120\
 Data File : BM025025.D
 Acq On : 22 Feb 2020 14:08
 Operator : CG/JU
 Sample : L1507-22
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DBD20

Manual Integrations
 APPROVED

mohammad
 2/24/2020 3:39:08 PM

Quant Time: Feb 24 10:51:11 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM020620MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Feb 24 05:59:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.33	152	224746	20.00	ng/ul	0.00
18) Naphthalene-d8	10.09	136	945134	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.00	164	667348	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.76	188	1524098	20.00	ng/ul	0.01
78) Chrysene-d12	20.98	240	1660718	20.00	ng/ul	0.02
86) Perylene-d12	23.04	264	1873451	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.96	96	1588	0.34	ng/uL	0.02
5) Phenol-d5	6.55	99	21854	1.46	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.70	67	15583	1.85	ng/ul	0.00
9) 2-Chlorophenol-d4	6.88	132	20761	1.55	ng/ul	0.00
13) 4-Methylphenol-d8	8.06	113	17513	1.39	ng/ul	0.00
19) Nitrobenzene-d5	8.48	128	10893	1.59	ng/ul	0.00
22) 2-Nitrophenol-d4	9.20	143	10347	1.28	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	9.74	165	21657	1.33	ng/ul	0.01
29) 4-Chloroaniline-d4	10.27	131	3473m	0.23	ng/ul	0.04
44) Dimethylphthalate-d6	13.42	166	90522	1.80	ng/ul	0.00
47) Acenaphthylene-d8	13.67	160	107399	1.83	ng/ul	0.00
52) 4-Nitrophenol-d4	14.22	143	7615	0.93	ng/ul	0.00
58) Fluorene-d10	15.00	176	97106	2.18	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.17	200	7285m	0.73	ng/ul	0.04
71) Anthracene-d10	16.87	188	145633	2.09	ng/ul	0.02
79) Pyrene-d10	19.17	212	158883m	1.91	ng/ul	0.02
90) Benzo(a)pyrene-d12	22.92	264	183036m	1.95	ng/ul	0.00

Target Compounds

					Ovalue
34) 2-Methylnaphthalene	11.76	142	113983	3.204	ng/ul 100
48) Acenaphthylene	13.71	152	1676332	27.510	ng/ul 97
50) Acenaphthene	14.07	153	20686445m	502.682	ng/ul
54) Dibenzofuran	14.40	168	14126640	230.288	ng/ul 95
59) Fluorene	15.06	166	19458367m	384.884	ng/ul
70) Phenanthrene	16.80	178	34691842m	417.466	ng/ul
72) Anthracene	16.90	178	11508769	136.556	ng/ul 93
75) Carbazole	17.16	167	440852	6.279	ng/ul# 87
76) Di-n-butylphthalate	17.76	149	114927	1.286	ng/ul# 68
77) Fluoranthene	18.83	202	44737855m	438.541	ng/ul
80) Pyrene	19.20	202	36781272m	334.595	ng/ul
83) Benzo(a)anthracene	20.96	228	16741776m	149.660	ng/ul
84) Bis(2-ethylhexyl)phthalate	20.93	149	122162	1.877	ng/ul 98
85) Chrysene	21.02	228	15178774	137.823	ng/ul# 83
88) Benzo(b)fluoranthene	22.45	252	8901424	74.720	ng/ul# 97
89) Benzo(k)fluoranthene	22.49	252	2901671m	25.306	ng/ul
91) Benzo(a)pyrene	22.96	252	2928904	27.423	ng/ul# 98
92) Indeno(1,2,3-cd)pyrene	25.06	276	1216634	9.150	ng/ul 99
93) Dibenzo(a,h)anthracene	25.06	278	376408	3.323	ng/ul# 95
94) Benzo(g,h,i)perylene	25.66	276	780642	7.059	ng/ul 97

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

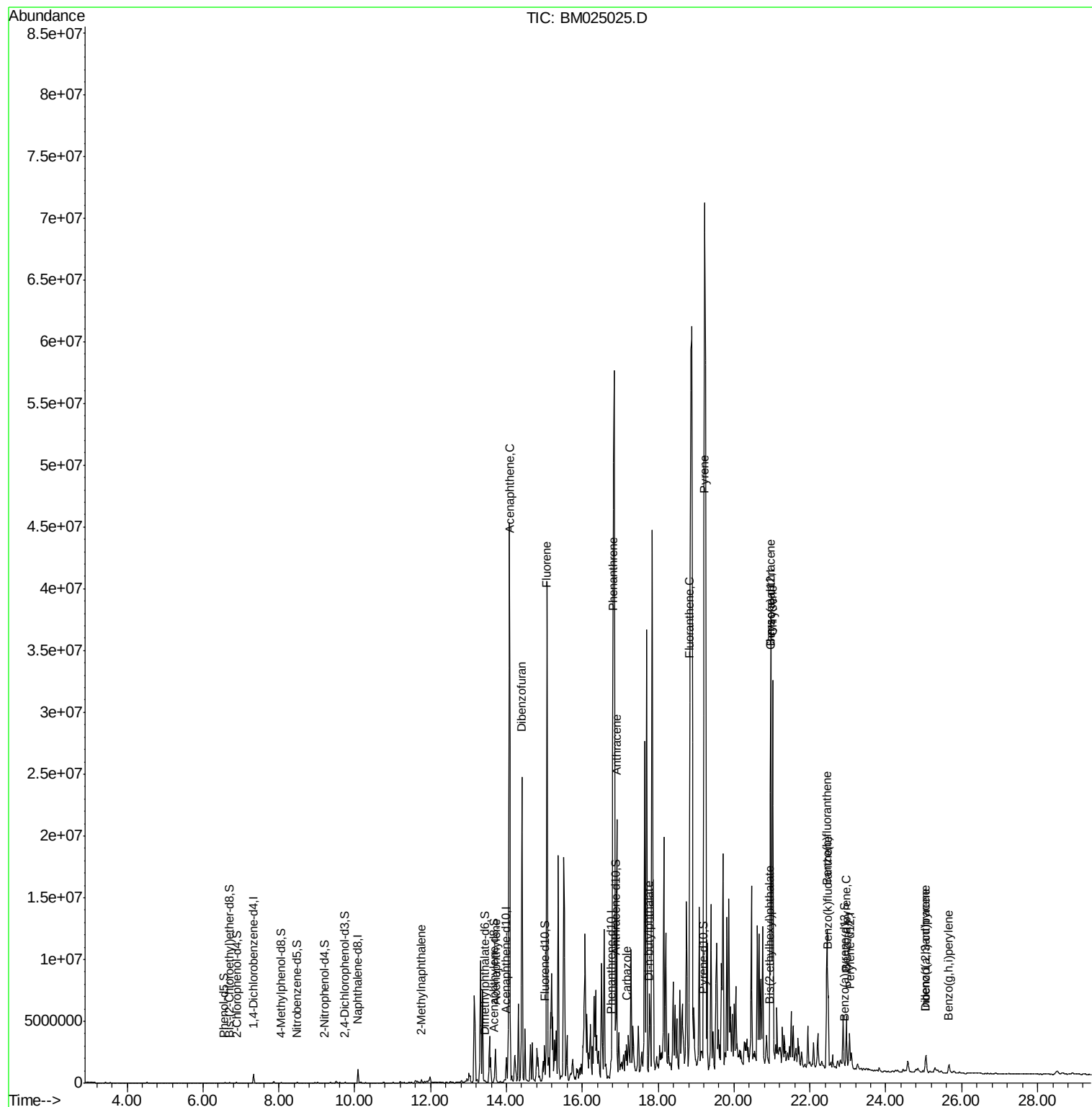
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022120\
Data File : BM025025.D
Acq On : 22 Feb 2020 14:08
Operator : CG/JU
Sample : L1507-22
Misc :
ALS Vial : 37 Sample Multiplier: 1

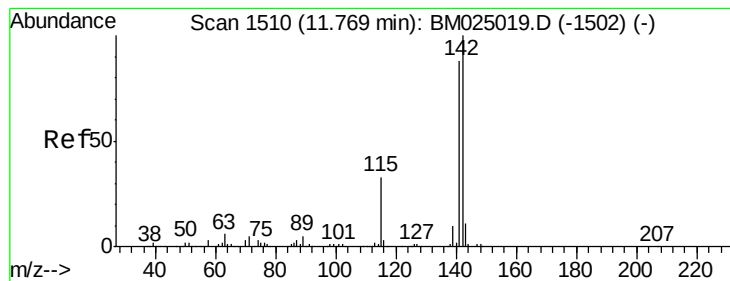
Instrument :
BNA_M
ClientSampleId :
DBD20

Manual Integrations
APPROVED

mohammad
2/24/2020 3:39:08 PM

Quant Time: Feb 24 10:51:11 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM020620MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Feb 24 05:59:54 2020
Response via : Initial Calibration





#34

2-Methylnaphthalene

Concen: 3.204 ng/ul

RT: 11.76 min Scan# 1509

Delta R.T. -0.01 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

Instrument :

BNA_M

ClientSampleId :

DBD20

Tot Ion:142 Resp: 113983

Ion Ratio Lower Upper

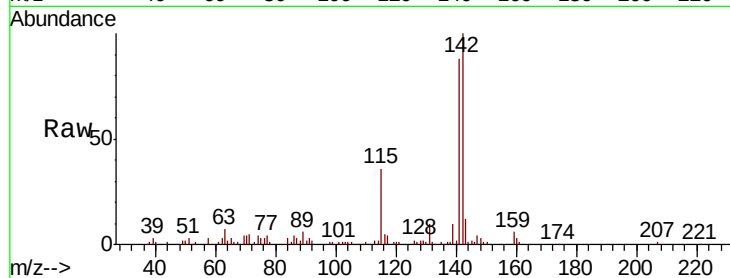
142 100

141 87.9 70.5 105.7

Manual Integrations
APPROVED

mohammad

2/24/2020 3:39:08 PM



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

11.76

80000

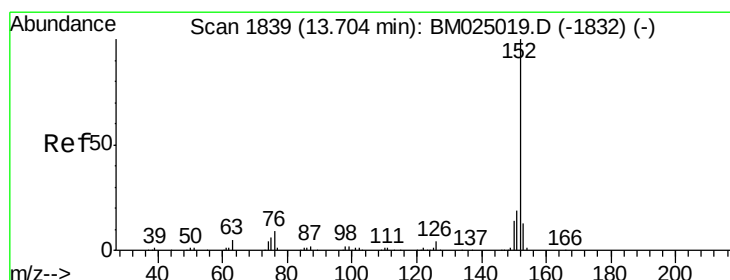
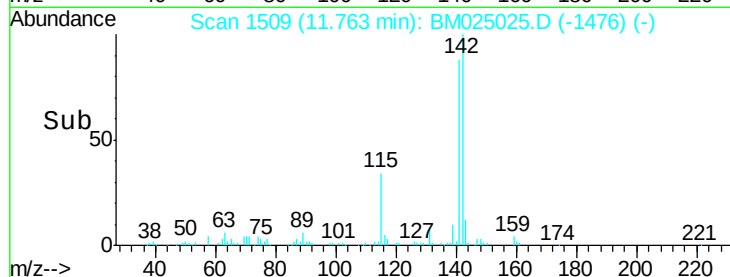
60000

40000

20000

0

Time-->



#48

Acenaphthylene

Concen: 27.510 ng/ul

RT: 13.71 min Scan# 1840

Delta R.T. 0.01 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

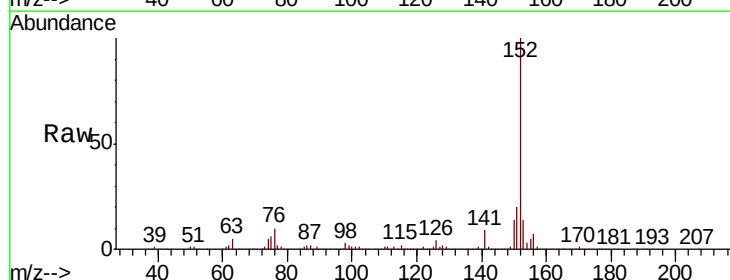
Tgt Ion:152 Resp: 1676332

Ion Ratio Lower Upper

152 100

151 20.3 15.1 22.7

153 14.2 10.1 15.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

13.71

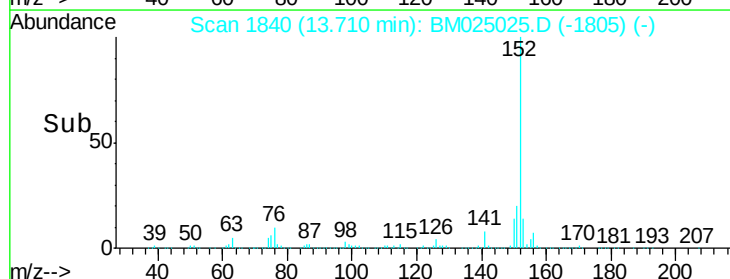
1500000

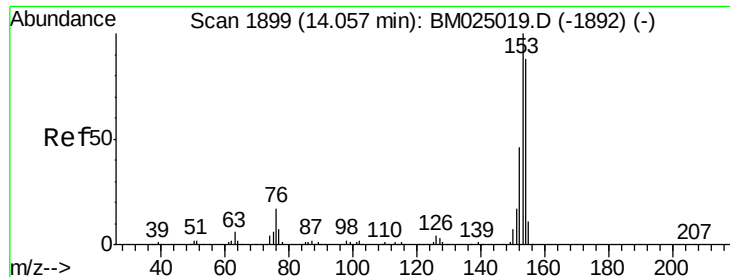
1000000

500000

0

Time-->





#50

Acenaphthene

Concen: 502.682 ng/ul m

RT: 14.07 min Scan# 1901

Delta R.T. 0.01 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

Instrument :

BNA_M

ClientSampled :

DBD20

Tot Ion:153 Resp:20686445

Ion Ratio Lower Upper

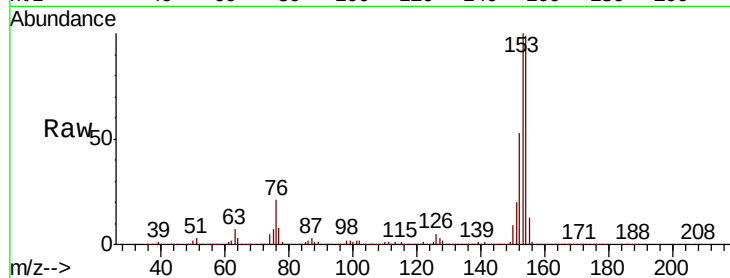
153 100

152 52.6 37.3 55.9

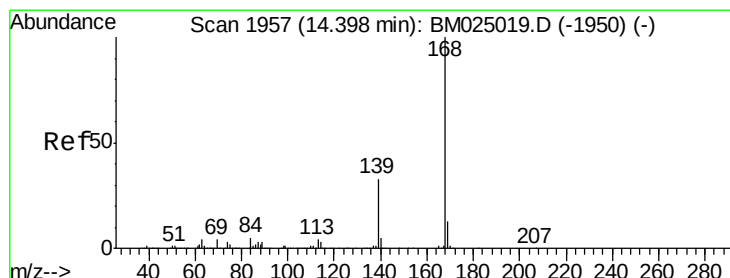
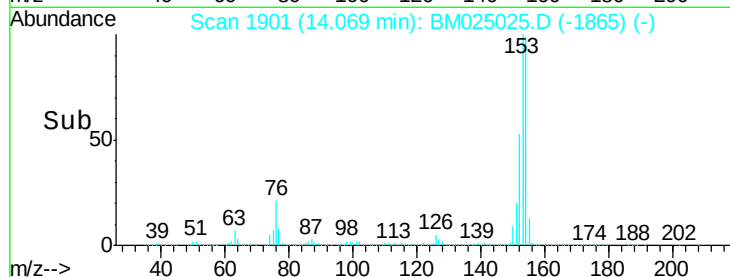
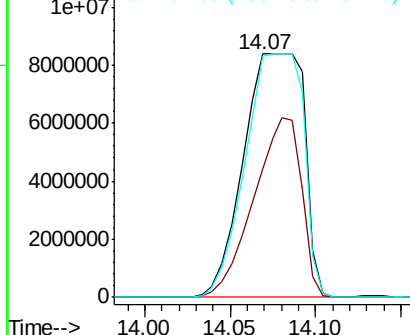
154 98.9 74.1 111.1

Manual Integrations
APPROVED

mohammad
2/24/2020 3:39:08 PM



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 230.288 ng/ul

RT: 14.40 min Scan# 1958

Delta R.T. 0.01 min

Lab File: BM025025.D

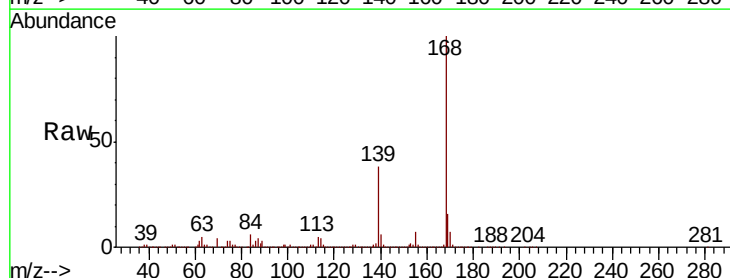
Acq: 22 Feb 2020 14:08

Tgt Ion:168 Resp:14126640

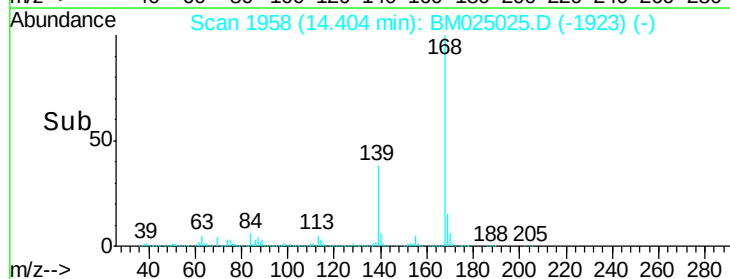
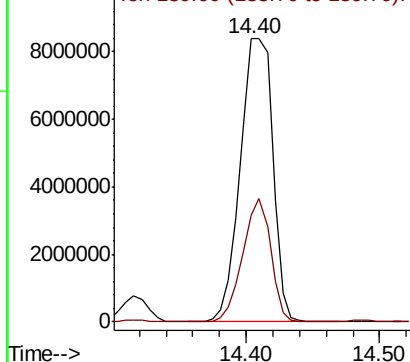
Ion Ratio Lower Upper

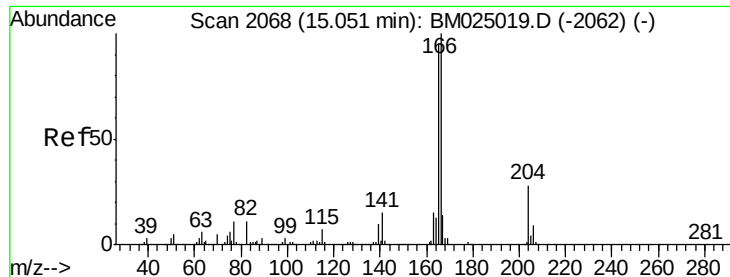
168 100

139 37.9 27.8 41.8



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





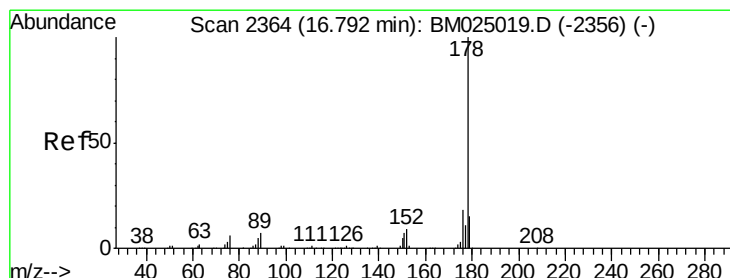
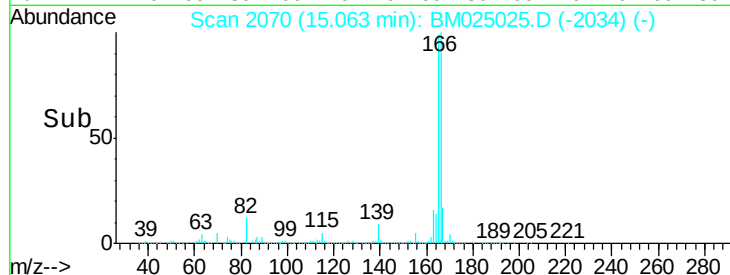
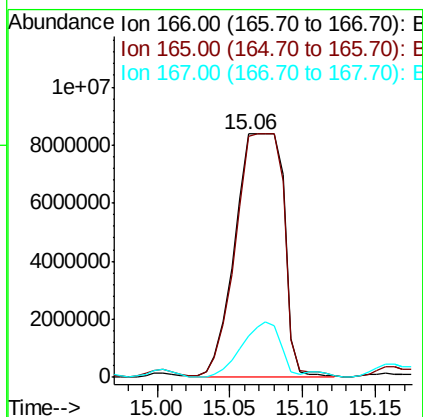
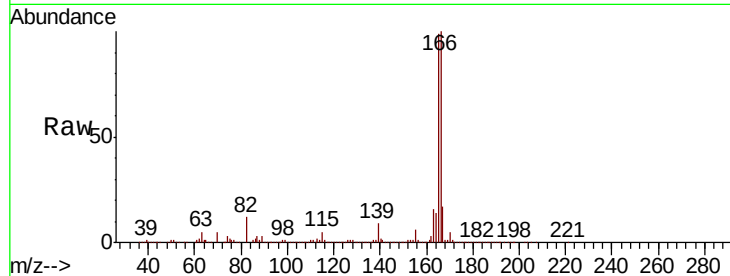
#59
Fluorene
Concen: 384.884 ng/ul m
RT: 15.06 min Scan# 2070
Delta R.T. 0.01 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Instrument :
BNA_M
ClientSampleId :
DBD20

Tot Ion:166 Resp:19458367
Ion Ratio Lower Upper
166 100
165 98.8 75.8 113.8
167 17.0 10.6 16.0#

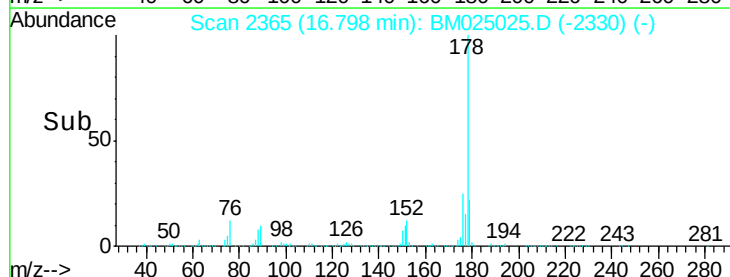
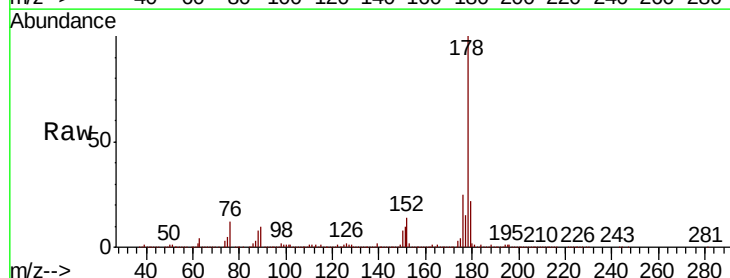
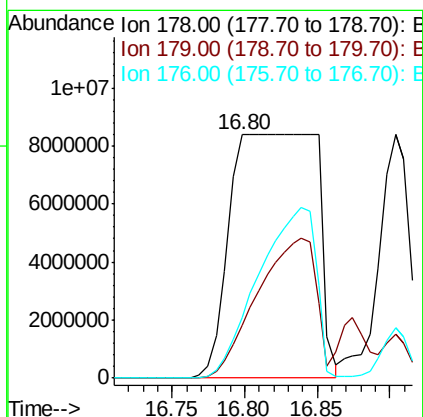
Manual Integrations
APPROVED

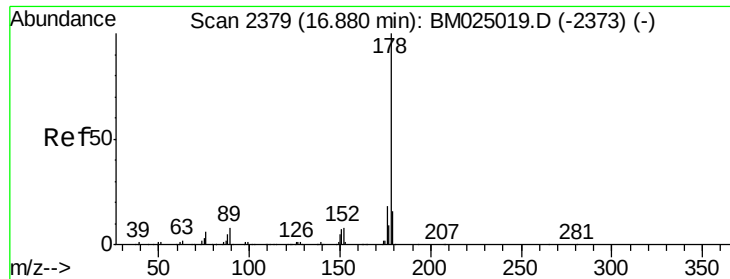
mohammad
2/24/2020 3:39:08 PM



#70
Phenanthrene
Concen: 417.466 ng/ul m
RT: 16.80 min Scan# 2365
Delta R.T. 0.01 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Tgt Ion:178 Resp:34691842
Ion Ratio Lower Upper
178 100
179 21.6 12.2 18.2#
176 25.1 14.5 21.7#





#72

Anthracene

Concen: 136.556 ng/ul

RT: 16.90 min Scan# 2383

Delta R.T. 0.02 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

Instrument :

BNA_M

ClientSampleId :

DBD20

Tot Ion:178 Resp:11508769

Ion Ratio Lower Upper

178 100

179 18.0 12.3 18.5

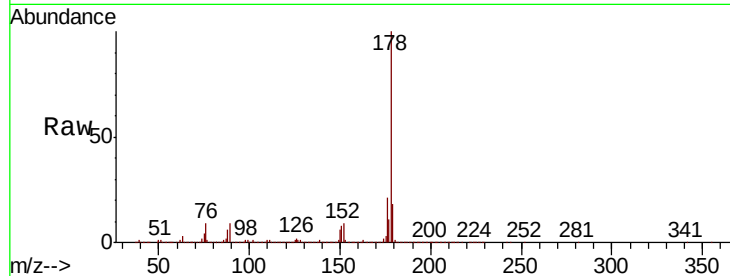
176 20.7 14.1 21.1

Manual Integrations

APPROVED

mohammad

2/24/2020 3:39:08 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

16.90

8000000

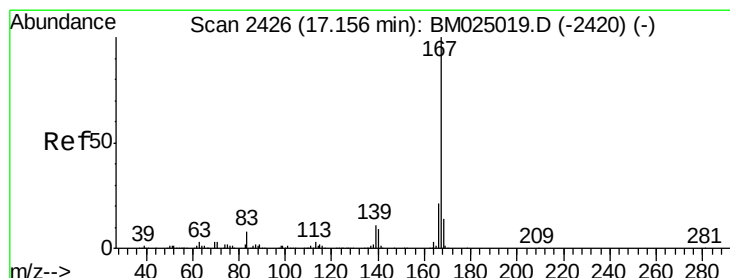
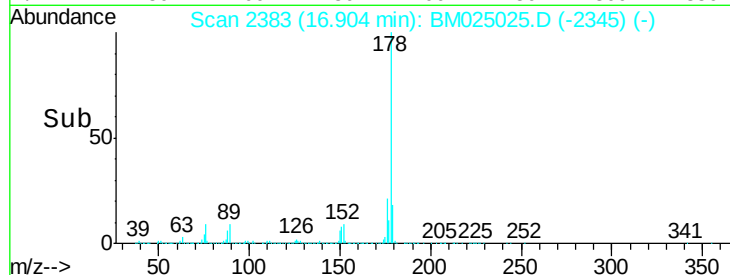
6000000

4000000

2000000

0

Time-->



#75

Carbazole

Concen: 6.279 ng/ul

RT: 17.16 min Scan# 2427

Delta R.T. 0.01 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

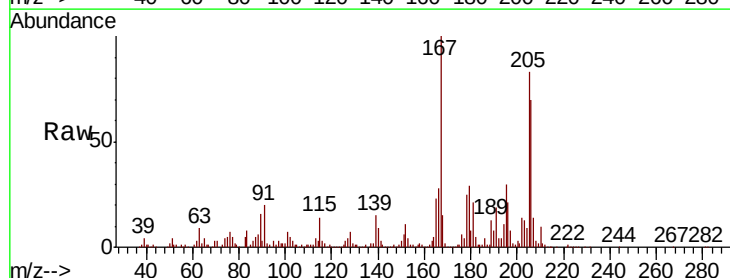
Tgt Ion:167 Resp: 440852

Ion Ratio Lower Upper

167 100

166 27.7 16.6 24.8#

139 15.3 9.3 13.9#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

17.16

400000

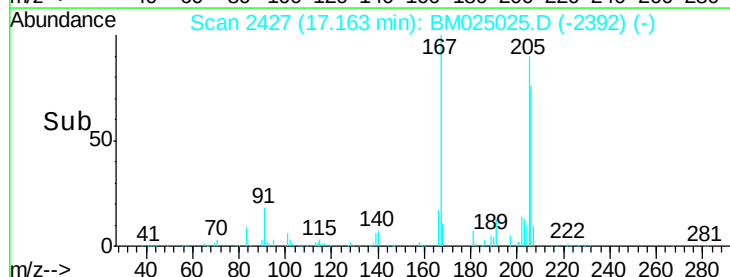
300000

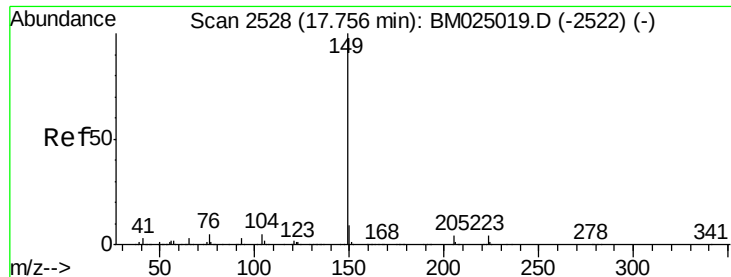
200000

100000

0

Time-->





#76

Di-n-butylphthalate

Concen: 1.286 ng/ul

RT: 17.76 min Scan# 2528

Delta R.T. 0.00 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

Instrument :

BNA_M

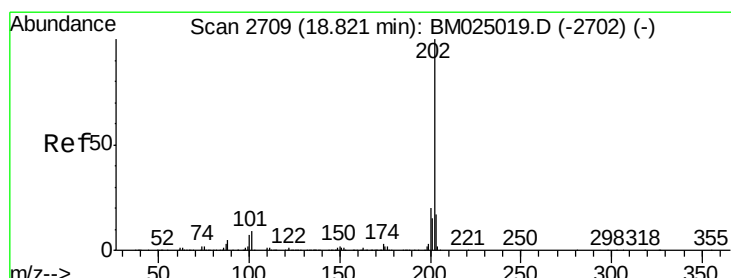
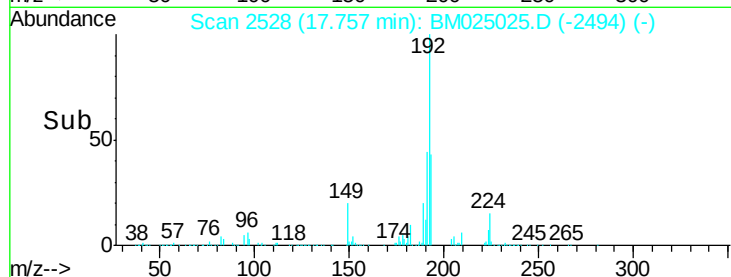
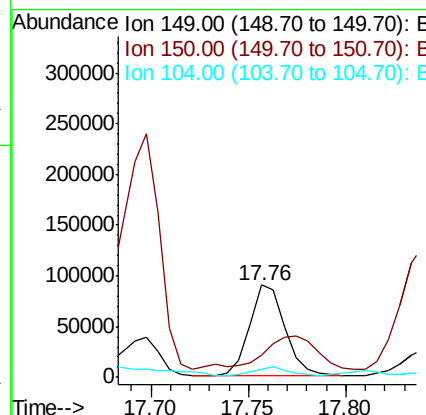
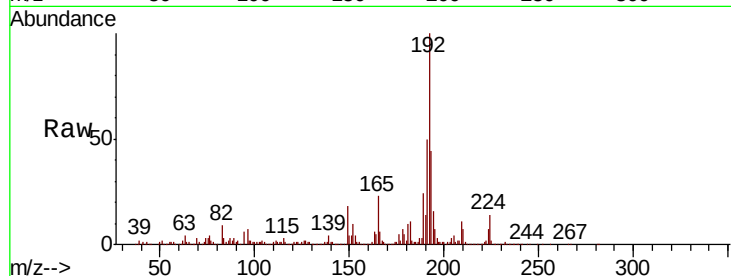
ClientSampleId :

DBD20

Tot Ion:	149	Resp:	114927
Ion Ratio	Lower	Upper	
149	100		
150	24.2	7.3	10.9#
104	9.2	3.8	5.6#

Manual Integrations
APPROVED

mohammad
2/24/2020 3:39:08 PM



#77

Fluoranthene

Concen: 438.541 ng/ul m

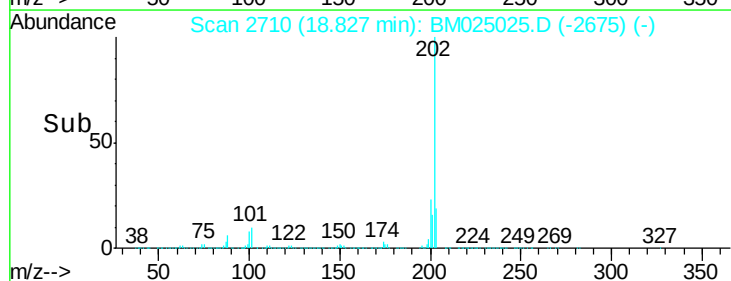
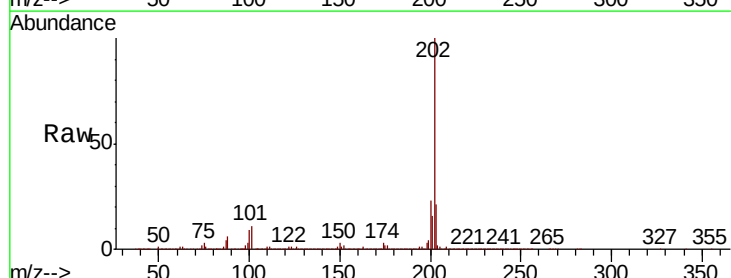
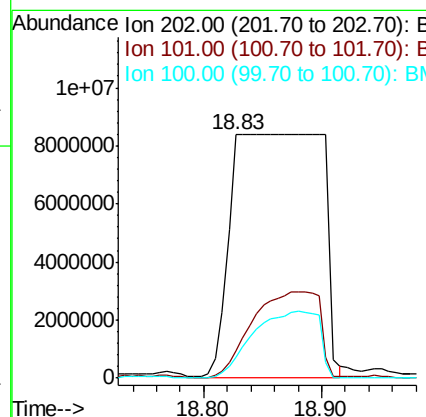
RT: 18.83 min Scan# 2710

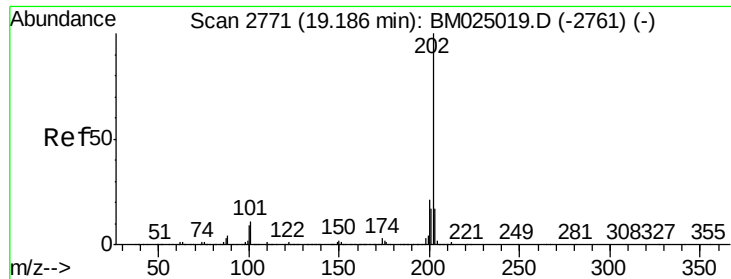
Delta R.T. 0.01 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

Tgt Ion:	202	Resp:	44737855
Ion Ratio	Lower	Upper	
202	100		
101	11.3	6.1	9.1#
100	8.8	4.8	7.2#





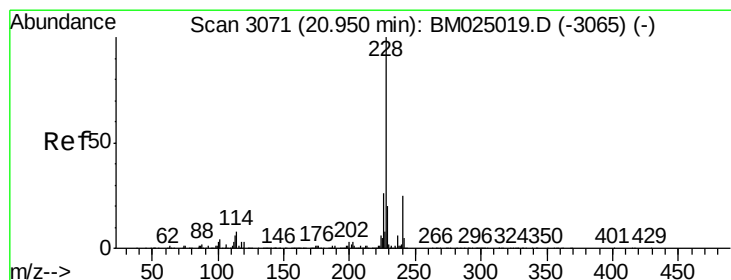
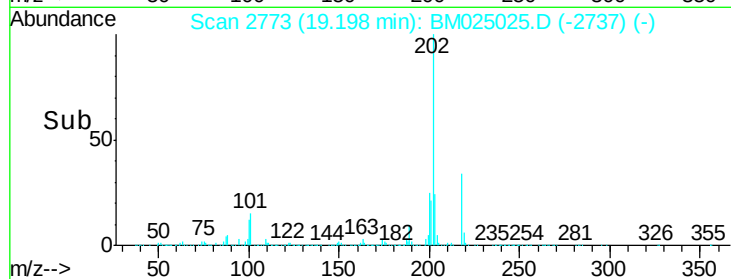
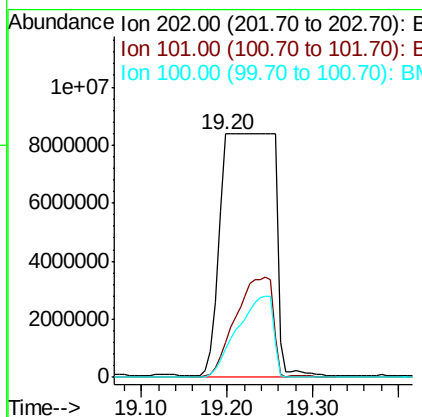
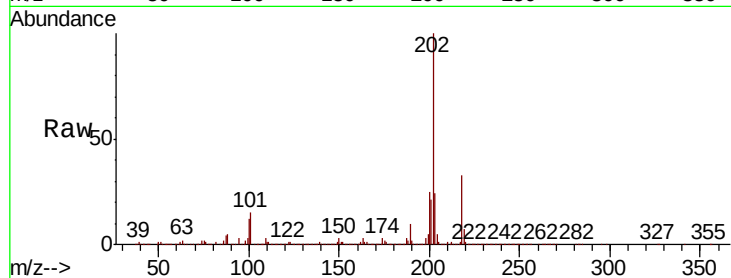
#80
Pvrene
Concen: 334.595 ng/ul m
RT: 19.20 min Scan# 2773
Delta R.T. 0.01 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Instrument :
BNA_M
ClientSampled :
DBD20

Tot Ion:202 Resp:36781272
Ion Ratio Lower Upper
202 100
101 14.5 7.0 10.4#
100 11.7 5.8 8.8#

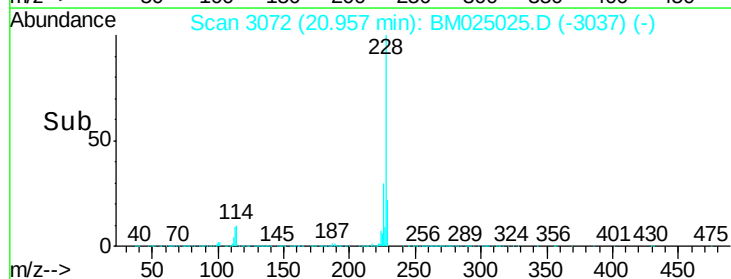
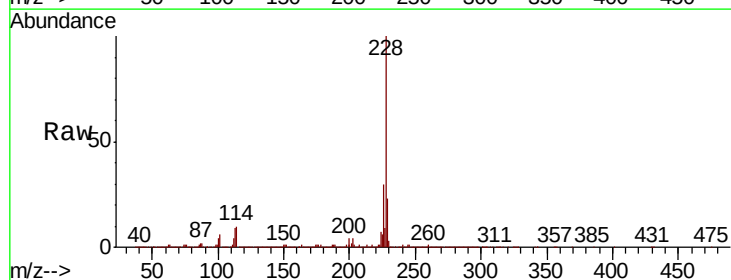
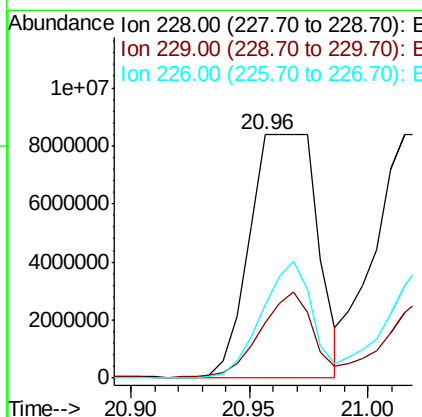
Manual Integrations
APPROVED

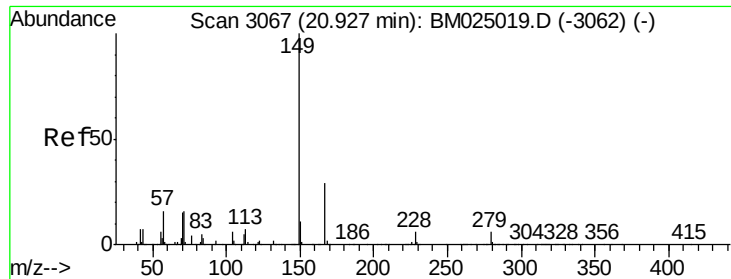
mohammad
2/24/2020 3:39:08 PM



#83
Benzo(a)anthracene
Concen: 149.660 ng/ul m
RT: 20.96 min Scan# 3072
Delta R.T. 0.01 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Tgt Ion:228 Resp:16741776
Ion Ratio Lower Upper
228 100
229 22.8 15.9 23.9
226 30.0 20.8 31.2





#84

Bis(2-ethylhexyl)phthalate

Concen: 1.877 ng/ul

RT: 20.93 min Scan# 3067

Delta R.T. 0.00 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

Instrument :

BNA_M

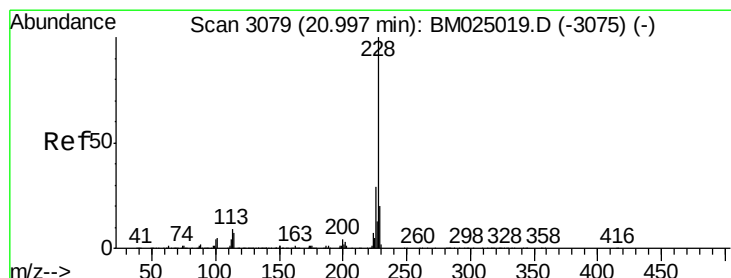
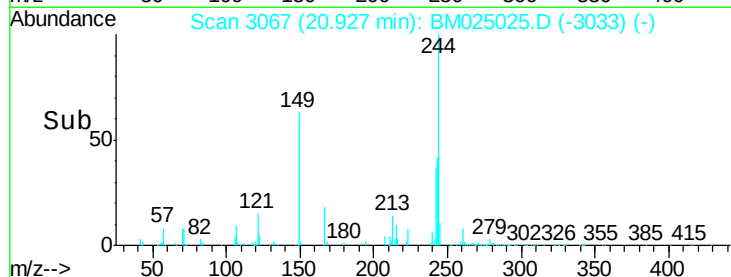
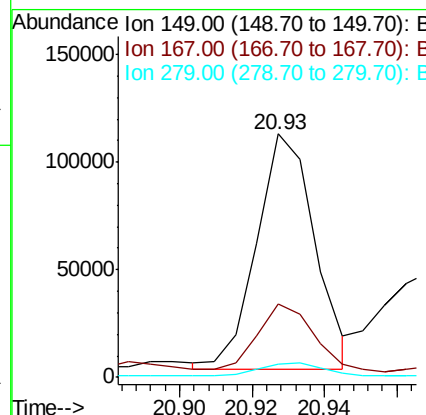
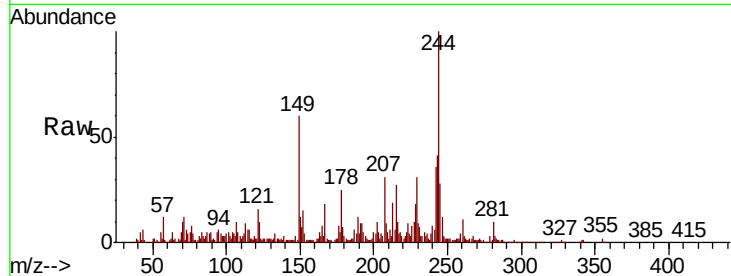
ClientSampleId :

DBD20

Tot Ion:	149	Resp:	122162
Ion Ratio	Lower	Upper	
149	100		
167	30.3	23.4	35.2
279	5.7	4.7	7.1

Manual Integrations
APPROVED

mohammad
2/24/2020 3:39:08 PM



#85

Chrysene

Concen: 137.823 ng/ul

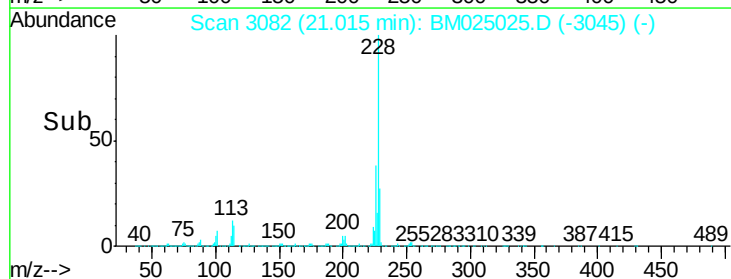
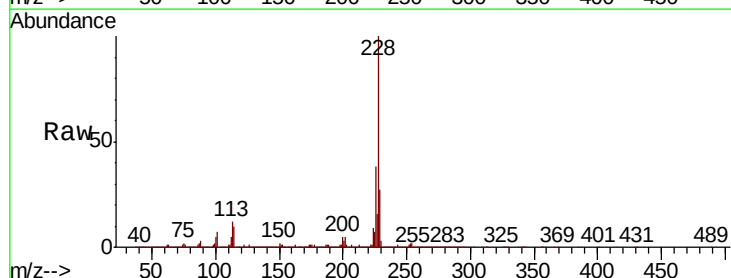
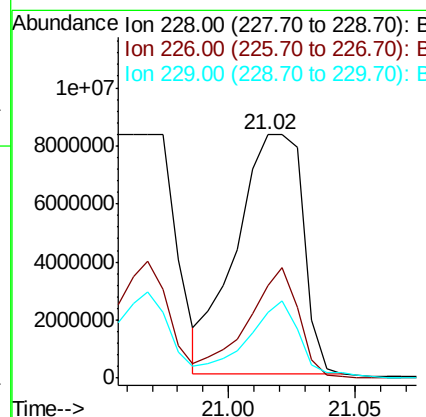
RT: 21.02 min Scan# 3082

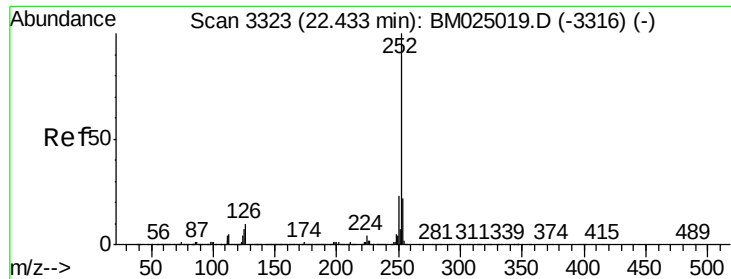
Delta R.T. 0.02 min

Lab File: BM025025.D

Acq: 22 Feb 2020 14:08

Tgt Ion:	228	Resp:	15178774
Ion Ratio	Lower	Upper	
228	100		
226	38.1	23.0	34.4#
229	26.9	15.8	23.8#





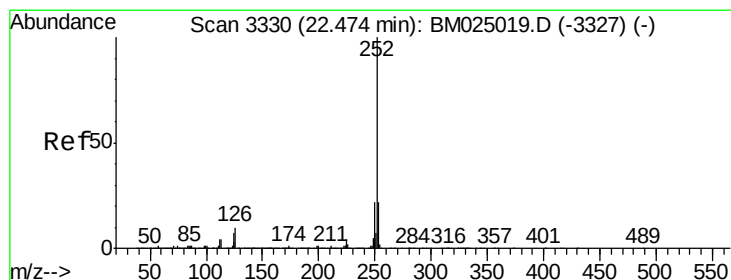
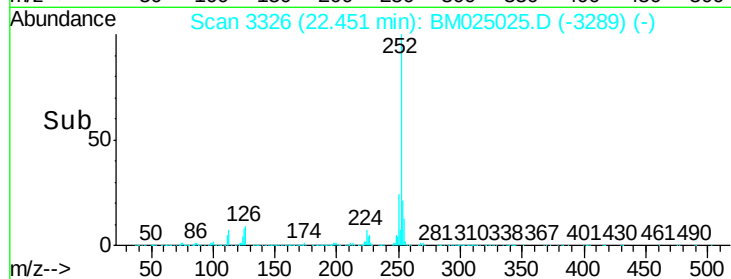
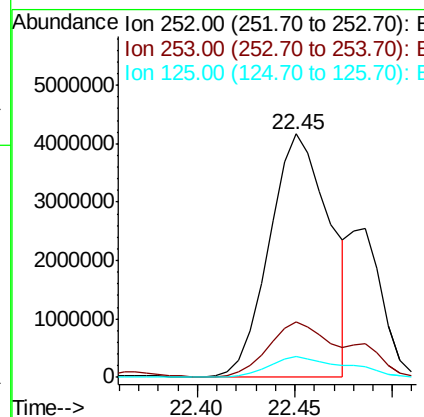
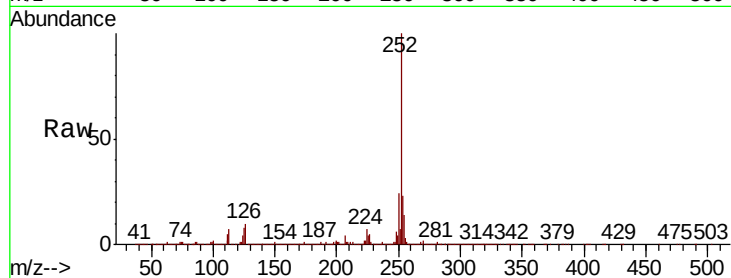
#88
Benzo(b)fluoranthene
Concen: 74.720 ng/ul
RT: 22.45 min Scan# 3326
Delta R.T. 0.02 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Instrument :
BNA_M
ClientSampled :
DBD20

Tot Ion:252 Resp: 8901424
Ion Ratio Lower Upper
252 100
253 22.7 17.3 25.9
125 8.4 5.1 7.7#

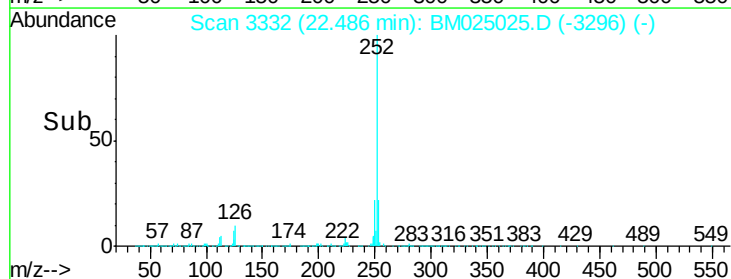
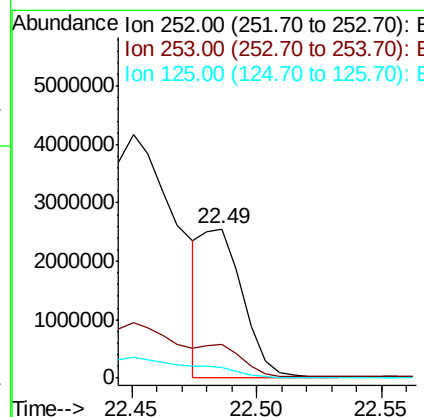
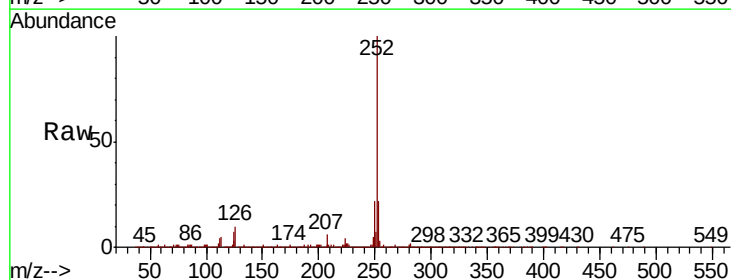
Manual Integrations
APPROVED

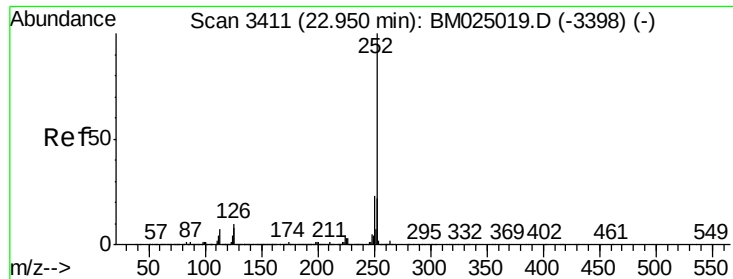
mohammad
2/24/2020 3:39:08 PM



#89
Benzo(k)fluoranthene
Concen: 25.306 ng/ul m
RT: 22.49 min Scan# 3332
Delta R.T. 0.01 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Tgt Ion:252 Resp: 2901671
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 7.3 5.1 7.7





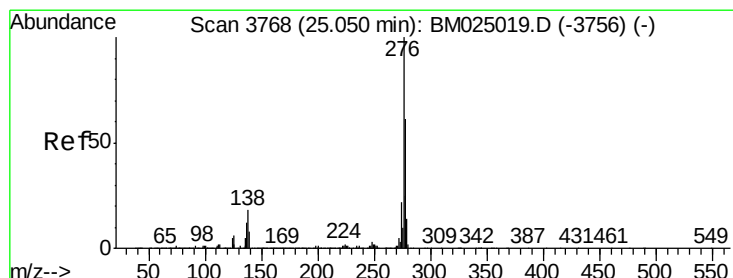
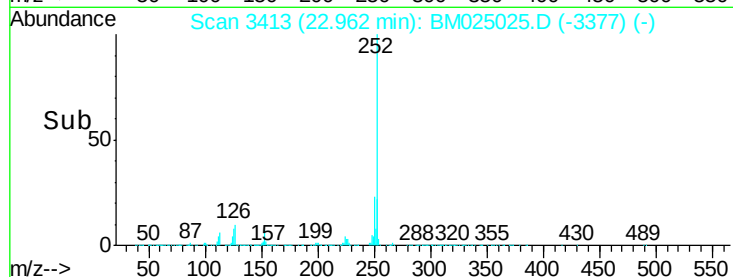
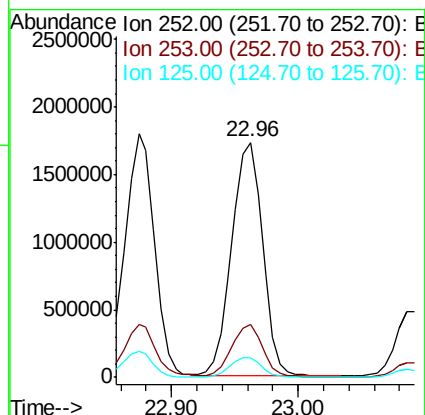
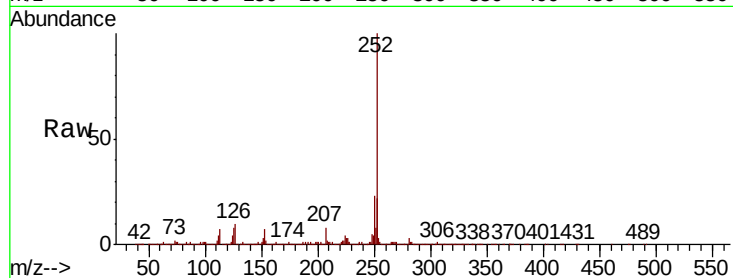
#91
Benzo(a)pyrene
Concen: 27.423 ng/ul
RT: 22.96 min Scan# 3413
Delta R.T. 0.01 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Instrument :
BNA_M
ClientSampled :
DBD20

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	8.4	5.6	8.4#

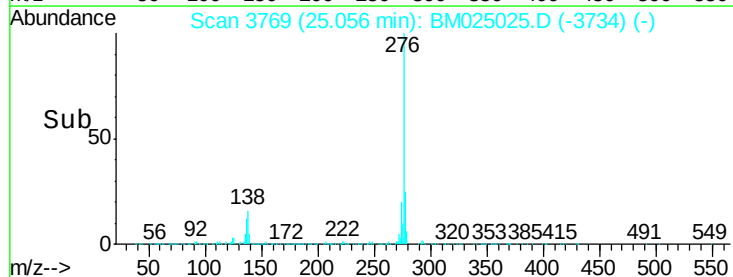
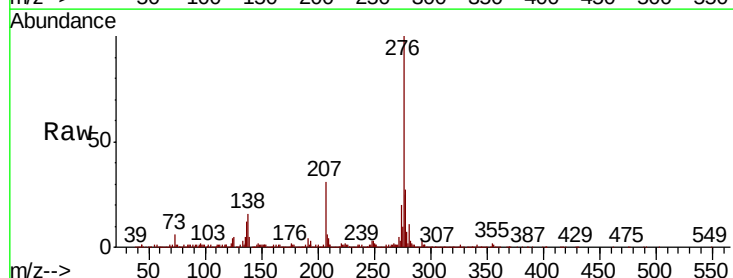
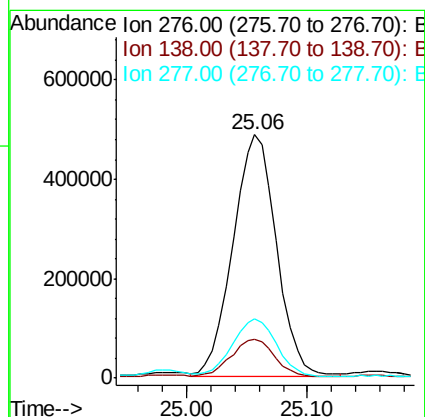
Manual Integrations
APPROVED

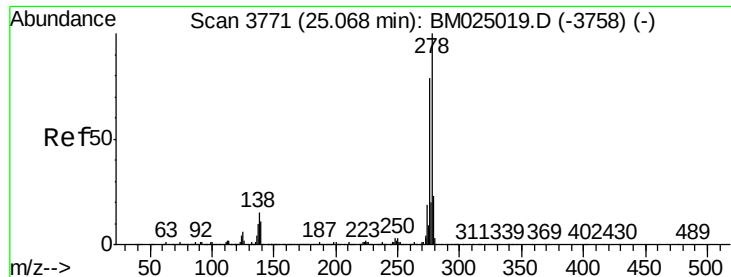
mohammad
2/24/2020 3:39:08 PM



#92
Indeno(1,2,3-cd)pyrene
Concen: 9.150 ng/ul
RT: 25.06 min Scan# 3769
Delta R.T. 0.01 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Tgt Ion	Ratio	Lower	Upper
276	100		
138	15.8	12.8	19.2
277	24.6	19.3	28.9





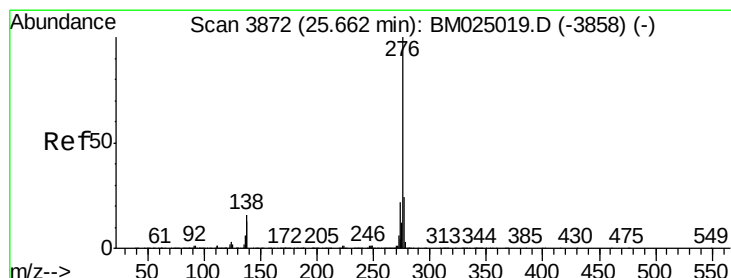
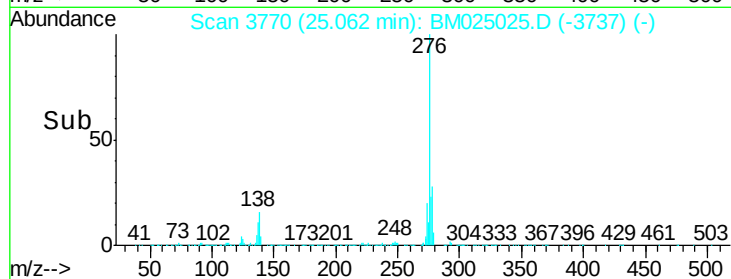
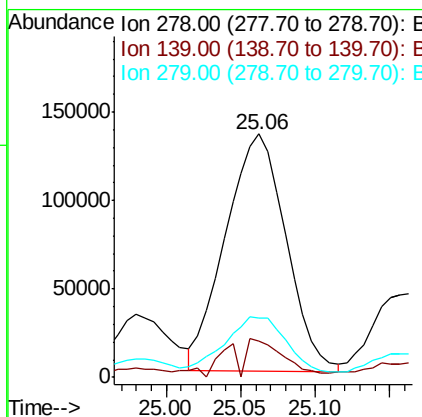
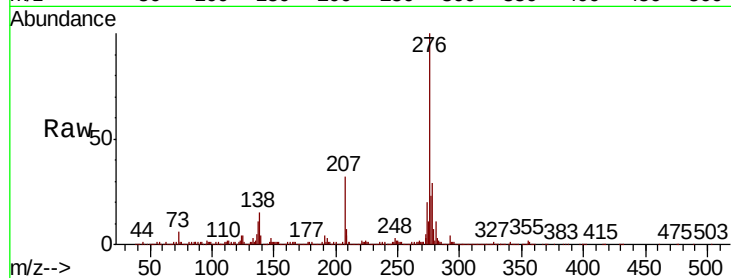
#93
Dibenzo(a,h)anthracene
Concen: 3.323 ng/ul
RT: 25.06 min Scan# 3770
Delta R.T. -0.01 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Instrument :
BNA_M
ClientSampleId :
DBD20

Tot Ion	Ratio	Lower	Upper
278	100		
139	14.7	8.4	12.6#
279	24.2	18.5	27.7

Manual Integrations
APPROVED

mohammad
2/24/2020 3:39:08 PM



#94
Benzo(g,h,i)perylene
Concen: 7.059 ng/ul
RT: 25.66 min Scan# 3872
Delta R.T. 0.00 min
Lab File: BM025025.D
Acq: 22 Feb 2020 14:08

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.4	11.8	17.6
277	24.6	19.0	28.6

