

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP121420\
 Data File : BP004307.D
 Acq On : 15 Dec 2020 16:45
 Operator : CG/JU
 Sample : L5001-10
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 A54C8

Manual Integrations
 APPROVED

mohammad
 12/17/2020 9:52:58 AM

Quant Time: Dec 15 18:37:41 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP121020MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Dec 15 09:00:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	274608	20.00	ng/ul	0.01
18) Naphthalene-d8	10.65	136	1145719	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.49	164	708611	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.26	188	1433506	20.00	ng/ul	0.01
78) Chrysene-d12	21.36	240	1299954	20.00	ng/ul	0.02
86) Perylene-d12	23.73	264	1526421	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.33	96	14146	1.81	ng/uL	0.00
5) Phenol-d5	7.01	99	335975	14.79	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.18	67	181689	12.81	ng/ul	0.00
9) 2-Chlorophenol-d4	7.38	132	272567	15.81	ng/ul	0.00
13) 4-Methylphenol-d8	8.55	113	262761	15.31	ng/ul	0.00
19) Nitrobenzene-d5	9.00	128	140624	14.99	ng/ul	0.00
22) 2-Nitrophenol-d4	9.72	143	125764	16.25	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.26	165	302935	17.80	ng/ul	0.01
29) 4-Chloroaniline-d4	10.77	131	278155	13.19	ng/ul	0.01
44) Dimethylphthalate-d6	13.90	166	882130	16.29	ng/ul	0.00
47) Acenaphthylene-d8	14.19	160	1155158	16.71	ng/ul	0.01
52) 4-Nitrophenol-d4	14.70	143	114671	12.54	ng/ul	0.02
58) Fluorene-d10	15.49	176	789569	16.10	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.63	200	6323	0.92	ng/ul	0.02
71) Anthracene-d10	17.36	188	1208318	17.30	ng/ul	0.01
79) Pyrene-d10	19.60	212	1289059	19.03	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.59	264	1449334	18.02	ng/ul	0.04

Target Compounds

					Ovalue
6) Phenol	7.04	94	72763	3.068	ng/ul 97
28) Naphthalene	10.69	128	291415	4.487	ng/ul 100
34) 2-Methylnaphthalene	12.31	142	118572	2.713	ng/ul 95
45) Dimethylphthalate	13.95	163	189763	3.440	ng/ul 97
48) Acenaphthylene	14.22	152	118451	1.727	ng/ul 99
50) Acenaphthene	14.56	153	552195	11.369	ng/ul 100
54) Dibenzofuran	14.89	168	423590	6.190	ng/ul 99
59) Fluorene	15.55	166	597815	10.922	ng/ul 99
69) Pentachlorophenol	16.91	266	19523	2.124	ng/ul 89
70) Phenanthrene	17.30	178	8698864	102.859	ng/ul 96
72) Anthracene	17.39	178	1630146	19.483	ng/ul 99
75) Carbazole	17.66	167	1180492	17.338	ng/ul 99
77) Fluoranthene	19.28	202	11382353	126.047	ng/ul 98
80) Pyrene	19.63	202	9798346	111.740	ng/ul 97
83) Benzo(a)anthracene	21.34	228	5358975	62.541	ng/ul 96
85) Chrysene	21.39	228	5260645	62.581	ng/ul 96
88) Benzo(b)fluoranthene	23.02	252	7265203	75.053	ng/ul 97
89) Benzo(k)fluoranthene	23.06	252	2174086m	21.869	ng/ul
91) Benzo(a)pyrene	23.64	252	4851431	53.707	ng/ul 97
92) Indeno(1,2,3-cd)pyrene	26.19	276	3456456	30.512	ng/ul# 94
93) Dibenzo(a,h)anthracene	26.20	278	927114	9.765	ng/ul# 90
94) Benzo(a,h,i)perylene	26.95	276	2737576	28.805	ng/ul 94

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP121420\
Data File : BP004307.D
Acq On : 15 Dec 2020 16:45
Operator : CG/JU
Sample : L5001-10
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
A54C8

Manual Integrations
APPROVED

mohammad
12/17/2020 9:52:58 AM

Quant Time: Dec 15 18:37:41 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP121020MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 15 09:00:06 2020
Response via : Initial Calibration

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

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

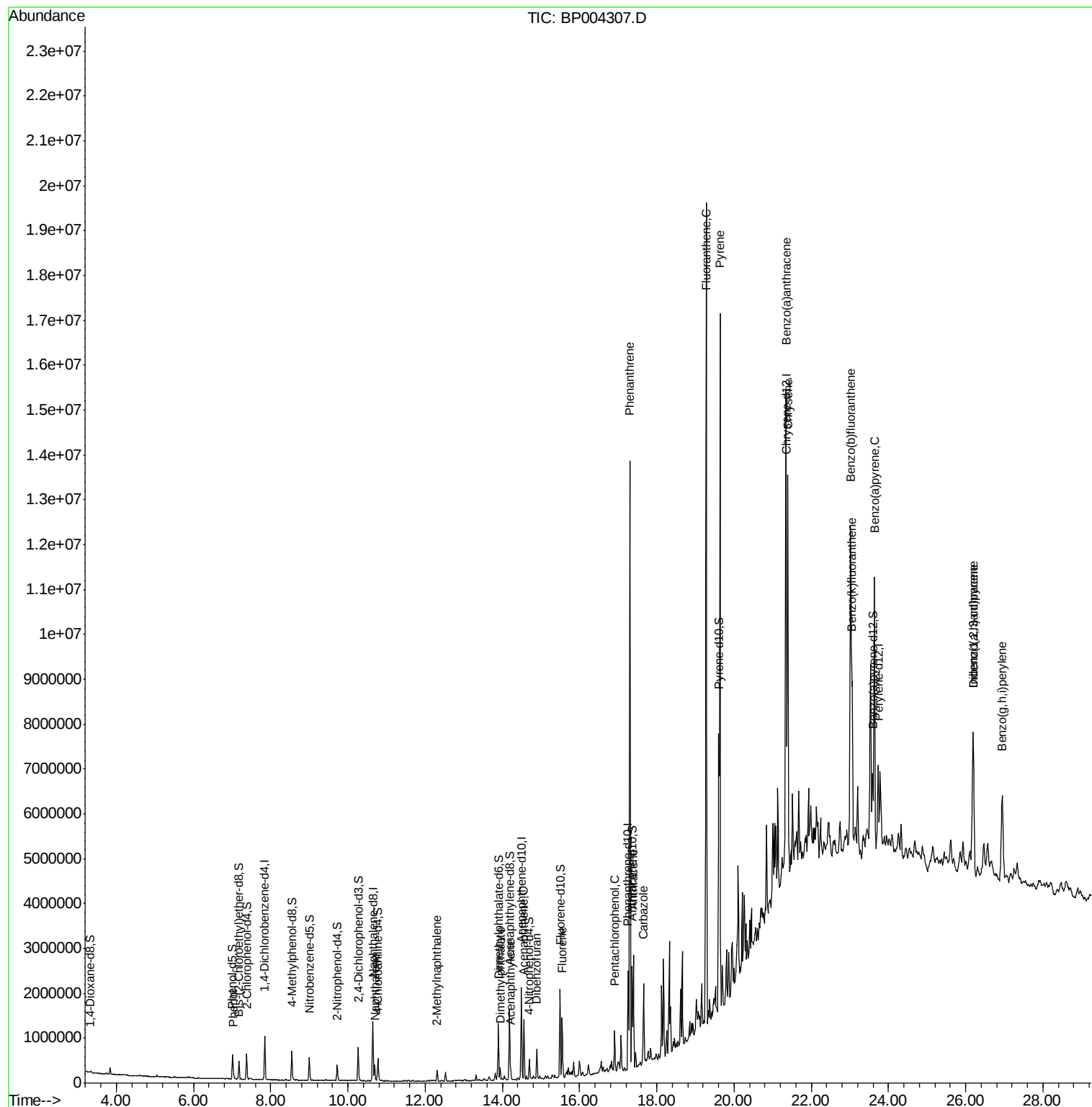
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP121420\
Data File : BP004307.D
Acq On : 15 Dec 2020 16:45
Operator : CG/JU
Sample : L5001-10
Misc :
ALS Vial : 42 Sample Multiplier: 1

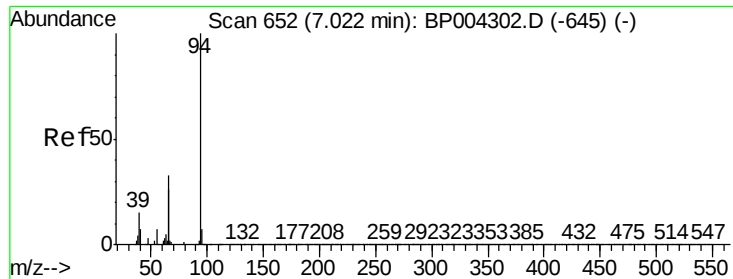
Instrument :
BNA_P
ClientSampled :
A54C8

Manual Integrations
APPROVED

mohammad
12/17/2020 9:52:58 AM

Quant Time: Dec 15 18:37:41 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP121020MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 15 09:00:06 2020
Response via : Initial Calibration





#6

Phenol

Concen: 3.068 ng/ul

RT: 7.04 min Scan# 655

Delta R.T. 0.01 min

Lab File: BP004307.D

Acq: 15 Dec 2020 16:45

Instrument :

BNA_P

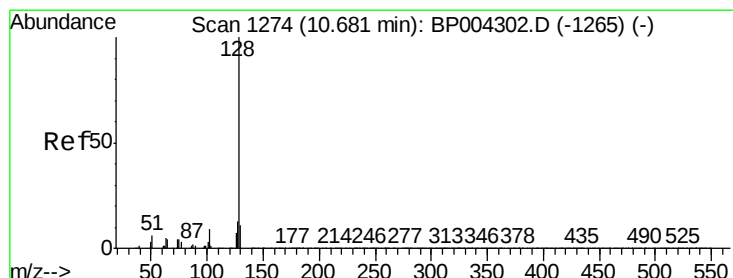
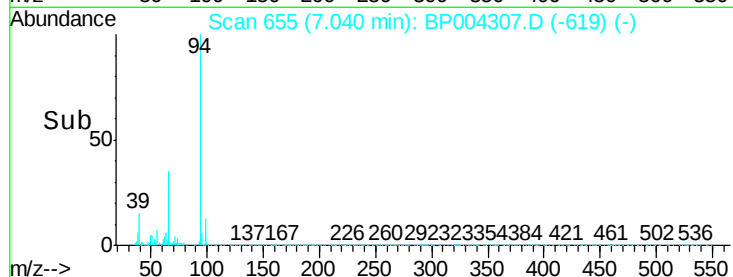
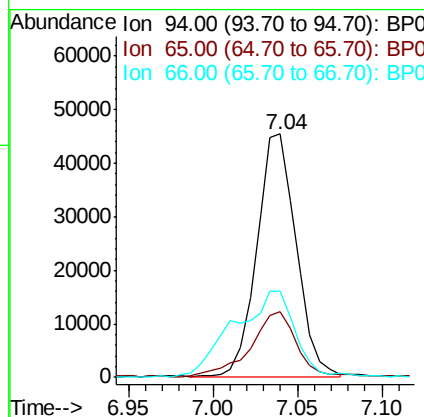
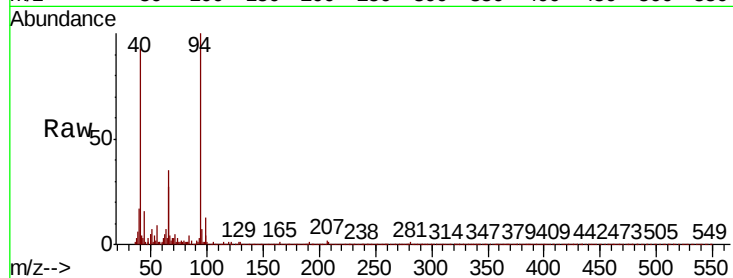
ClientSampleId :

A54C8

Tot Ion:	94	Resp:	72763
Ion Ratio	Lower	Upper	
94	100		
65	27.1	20.8	31.2
66	35.2	26.5	39.7

Manual Integrations
APPROVED

mohammad
12/17/2020 9:52:58 AM



#28

Naphthalene

Concen: 4.487 ng/ul

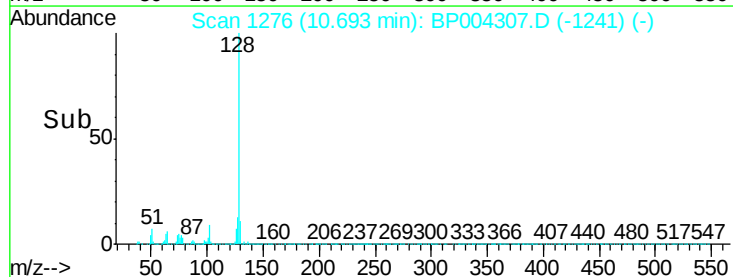
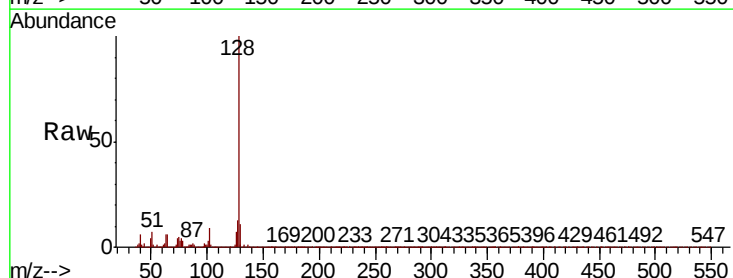
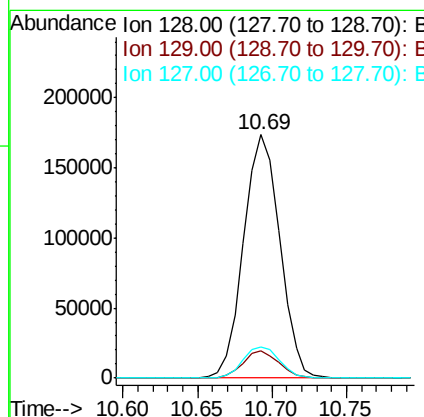
RT: 10.69 min Scan# 1276

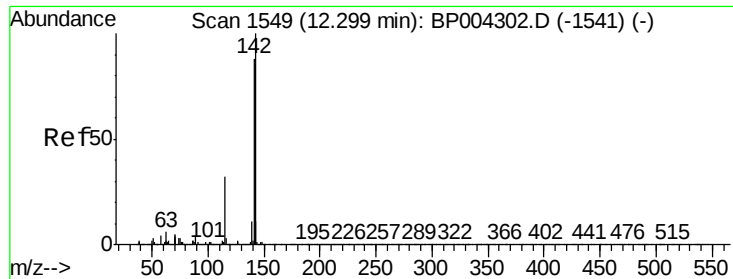
Delta R.T. 0.01 min

Lab File: BP004307.D

Acq: 15 Dec 2020 16:45

Tgt Ion:	128	Resp:	291415
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.8	13.2
127	13.0	10.6	16.0





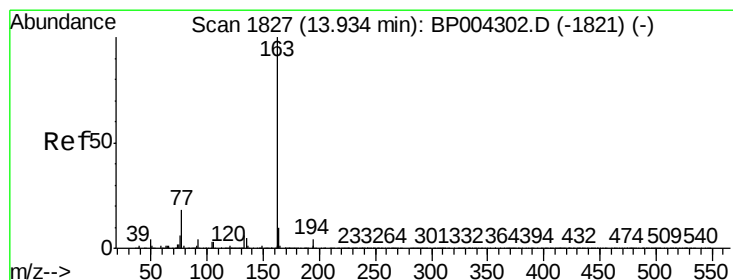
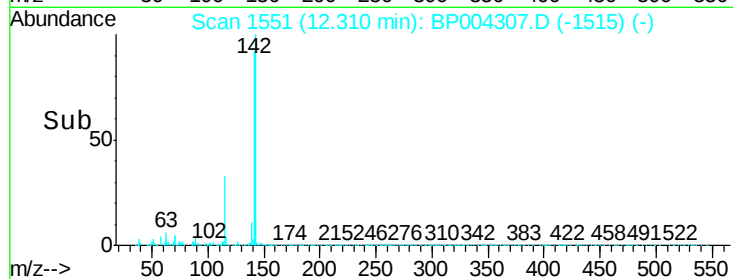
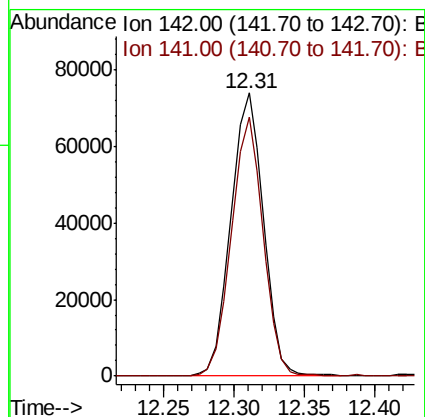
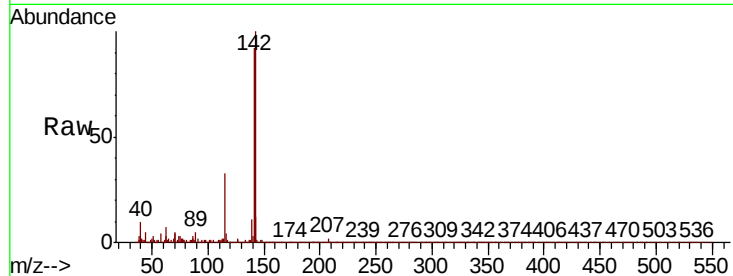
#34
 2-Methyl-naphthalene
 Concen: 2.713 ng/ul
 RT: 12.31 min Scan# 1551
 Delta R.T. 0.01 min
 Lab File: BP004307.D
 Acq: 15 Dec 2020 16:45

Instrument :
 BNA_P
 ClientSampleId :
 A54C8

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.7	69.7	104.5

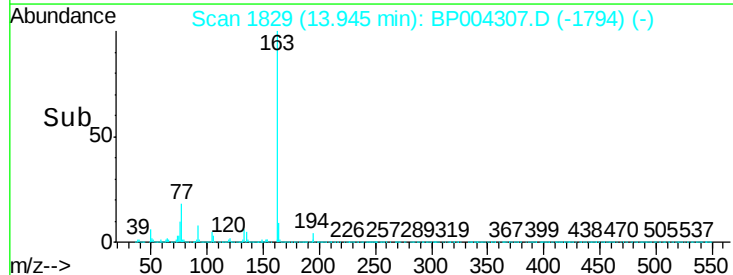
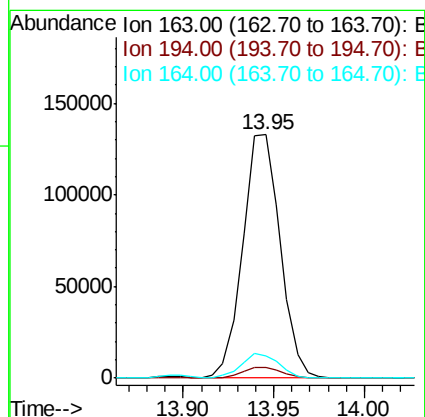
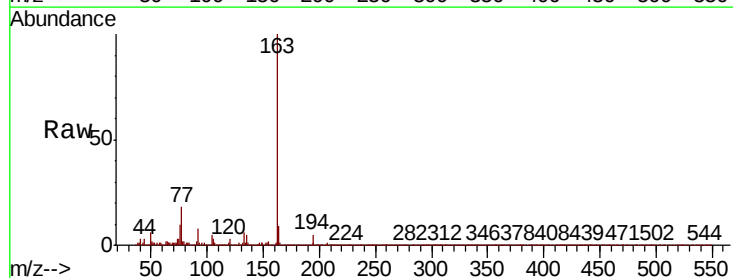
Manual Integrations
 APPROVED

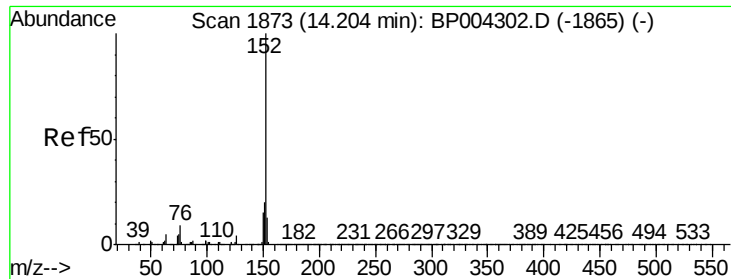
mohammad
 12/17/2020 9:52:58 AM



#45
 Dimethylphthalate
 Concen: 3.440 ng/ul
 RT: 13.95 min Scan# 1829
 Delta R.T. 0.01 min
 Lab File: BP004307.D
 Acq: 15 Dec 2020 16:45

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.4	5.2
164	9.3	8.4	12.6





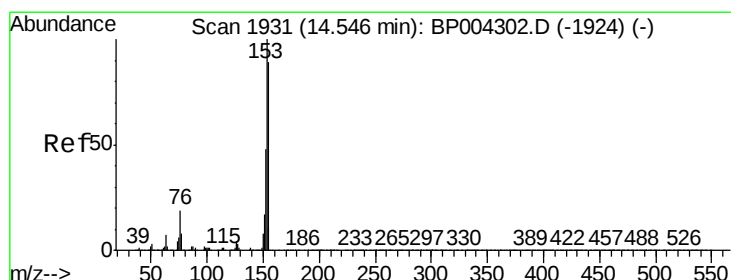
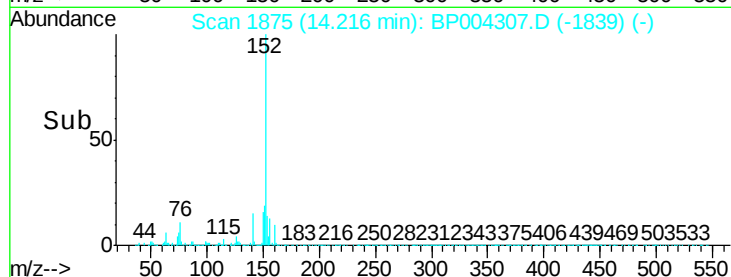
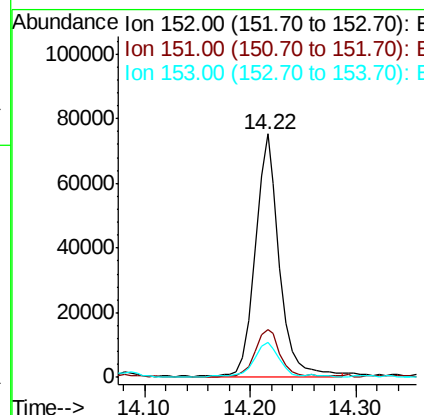
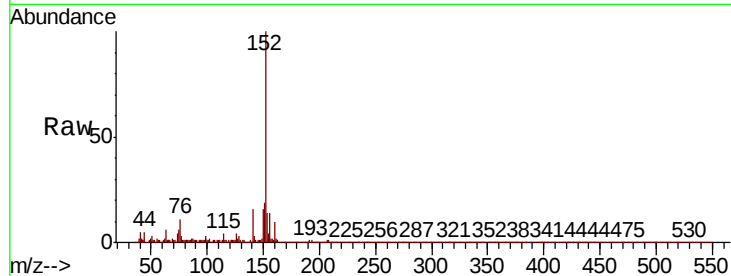
#48
Acenaphthylene
Concen: 1.727 ng/ul
RT: 14.22 min Scan# 1875
Delta R.T. 0.01 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Instrument :
BNA_P
ClientSampleId :
A54C8

Tot Ion:	152	Resp:	118451
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.8	23.8
153	14.2	10.6	16.0

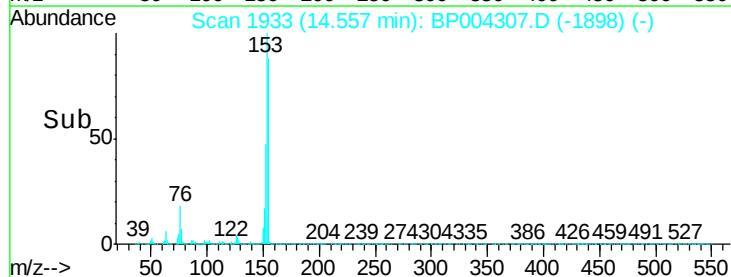
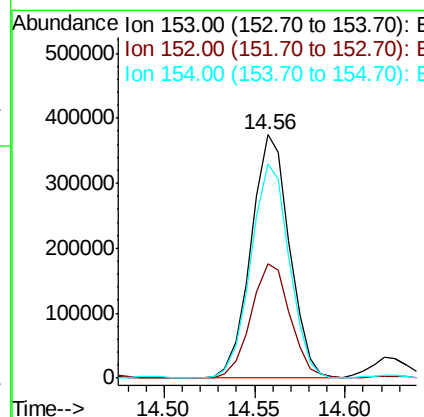
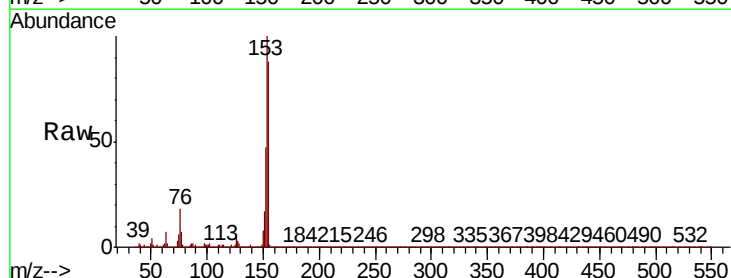
Manual Integrations
APPROVED

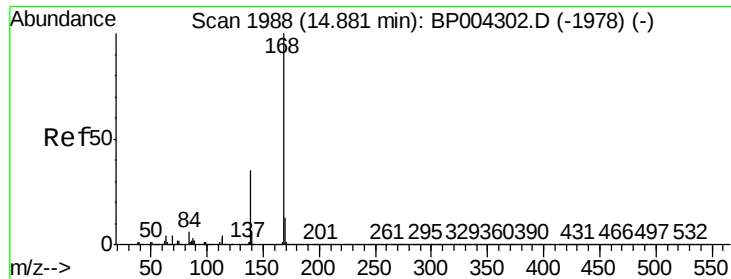
mohammad
12/17/2020 9:52:58 AM



#50
Acenaphthene
Concen: 11.369 ng/ul
RT: 14.56 min Scan# 1933
Delta R.T. 0.01 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Tgt Ion:	153	Resp:	552195
Ion Ratio	Lower	Upper	
153	100		
152	47.1	37.8	56.6
154	87.8	69.8	104.8





#54

Dibenzofuran

Concen: 6.190 ng/ul

RT: 14.89 min Scan# 1990

Delta R.T. 0.01 min

Lab File: BP004307.D

Acq: 15 Dec 2020 16:45

Instrument :

BNA_P

ClientSampleId :

A54C8

Tot Ion:168 Resp: 423590

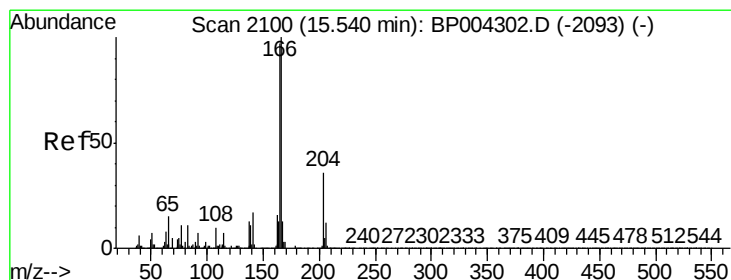
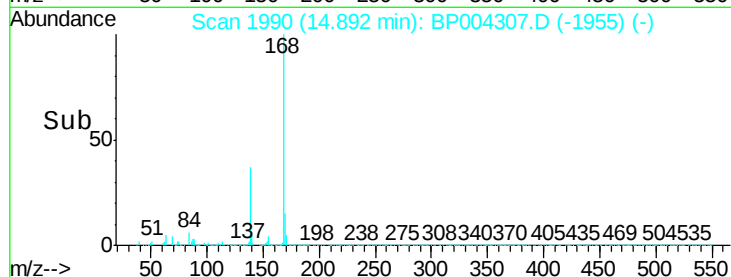
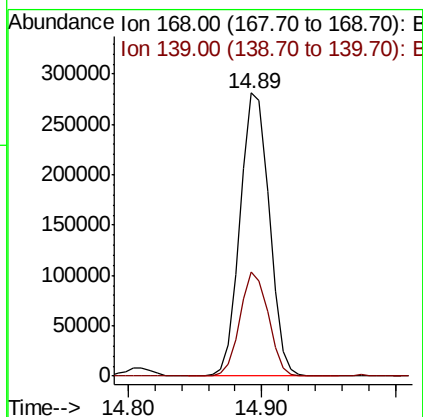
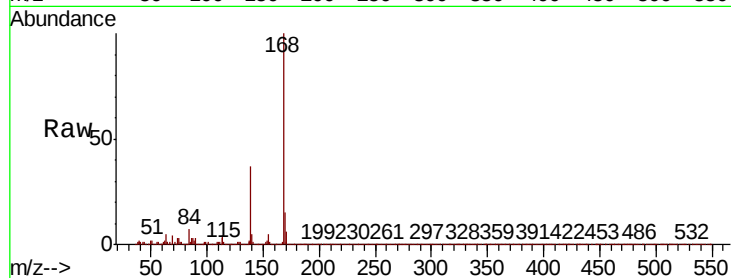
Ion Ratio Lower Upper

168 100

139 37.0 29.0 43.6

Manual Integrations
APPROVED

mohammad
12/17/2020 9:52:58 AM



#59

Fluorene

Concen: 10.922 ng/ul

RT: 15.55 min Scan# 2101

Delta R.T. 0.01 min

Lab File: BP004307.D

Acq: 15 Dec 2020 16:45

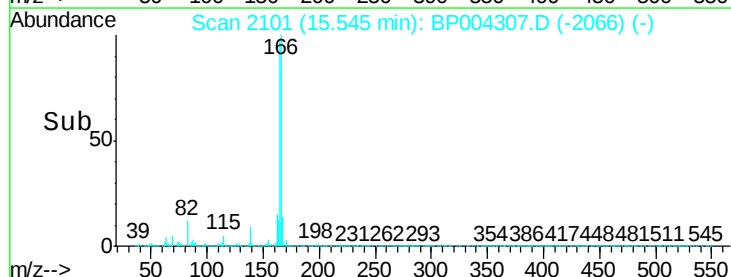
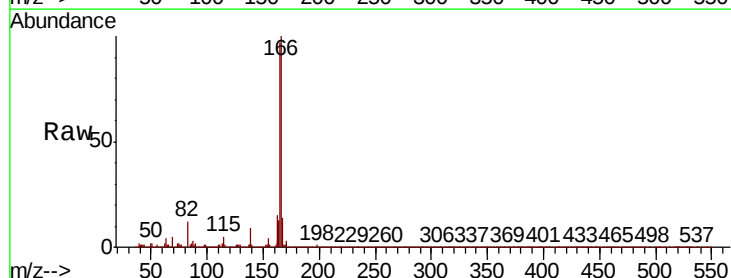
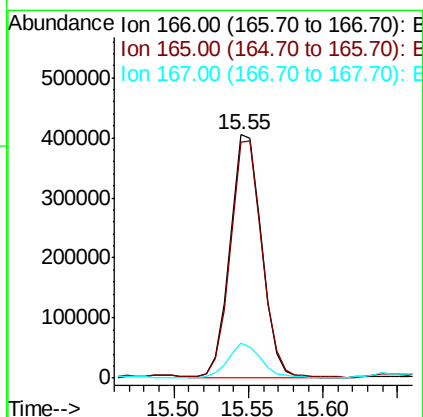
Tgt Ion:166 Resp: 597815

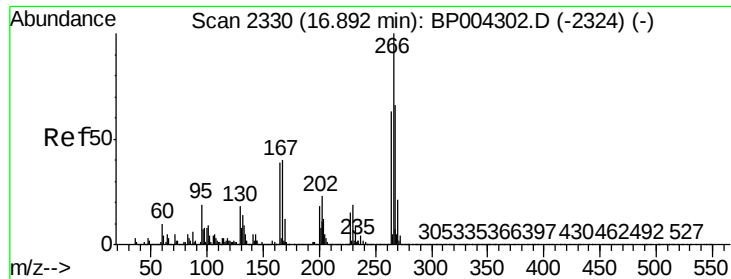
Ion Ratio Lower Upper

166 100

165 97.1 78.2 117.2

167 14.4 10.8 16.2





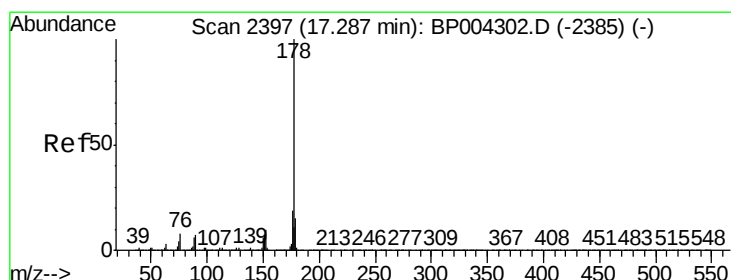
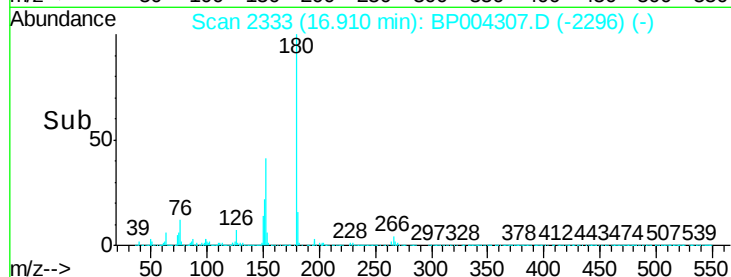
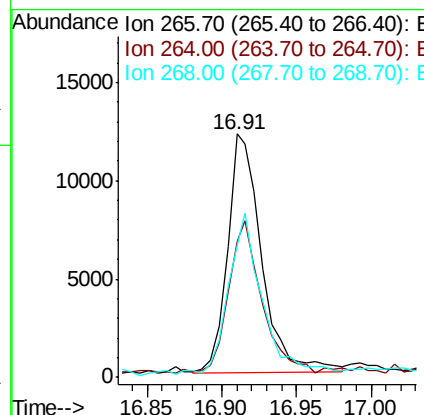
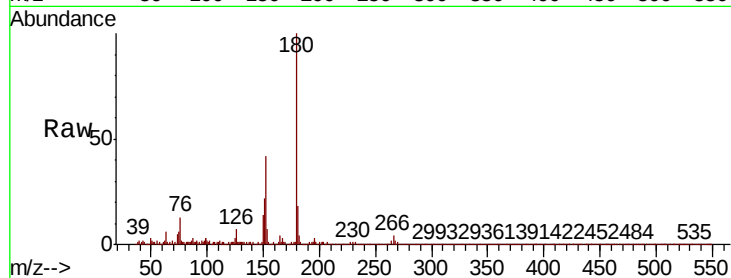
#69
Pentachlorophenol
Concen: 2.124 ng/ul
RT: 16.91 min Scan# 2333
Delta R.T. 0.02 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Instrument :
BNA_P
ClientSampleId :
A54C8

Tot Ion	Ratio	Lower	Upper
266	100		
264	55.9	49.8	74.6
268	54.4	52.0	78.0

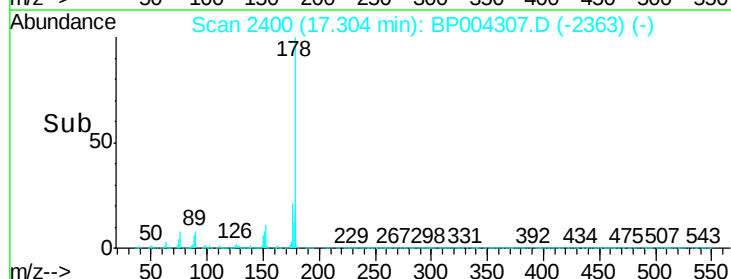
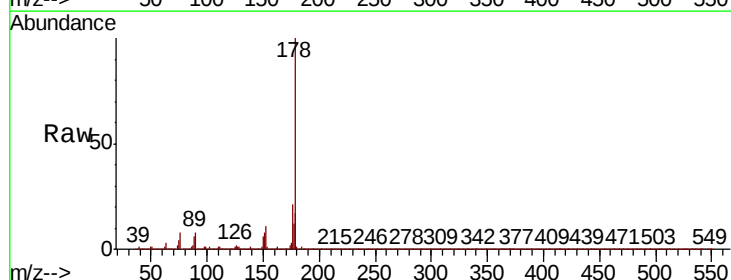
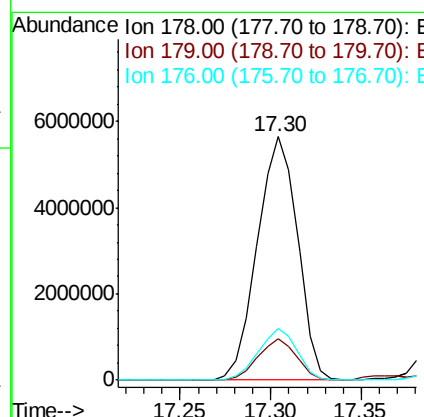
Manual Integrations
APPROVED

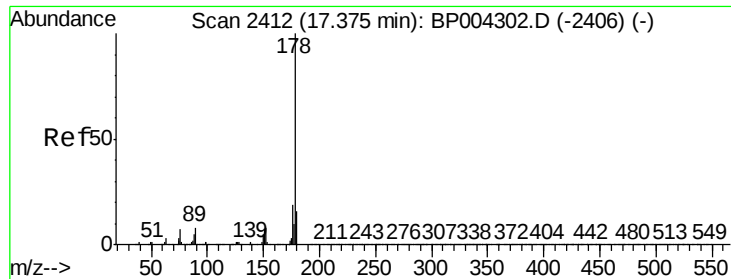
mohammad
12/17/2020 9:52:58 AM



#70
Phenanthrene
Concen: 102.859 ng/ul
RT: 17.30 min Scan# 2400
Delta R.T. 0.02 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.8	12.4	18.6
176	21.0	15.4	23.0





#72

Anthracene

Concen: 19.483 ng/ul

RT: 17.39 min Scan# 2415

Delta R.T. 0.01 min

Lab File: BP004307.D

Acq: 15 Dec 2020 16:45

Instrument :

BNA_P

ClientSampled :

A54C8

Tot Ion:178 Resp: 1630146

Ion Ratio Lower Upper

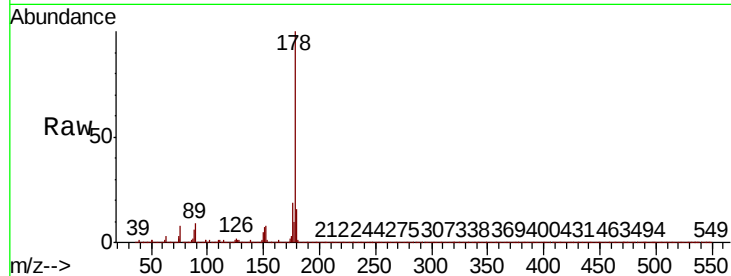
178 100

179 16.0 12.3 18.5

176 19.0 14.9 22.3

Manual Integrations
APPROVED

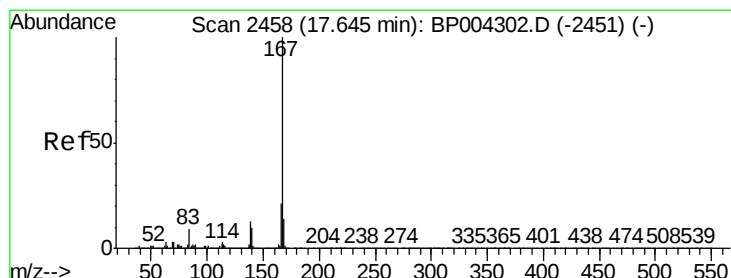
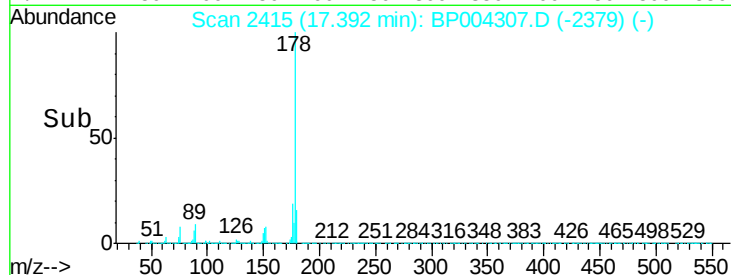
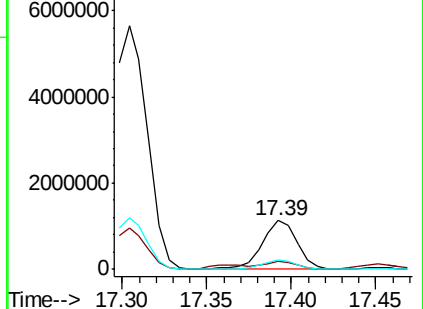
mohammad
12/17/2020 9:52:58 AM



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



#75

Carbazole

Concen: 17.338 ng/ul

RT: 17.66 min Scan# 2461

Delta R.T. 0.02 min

Lab File: BP004307.D

Acq: 15 Dec 2020 16:45

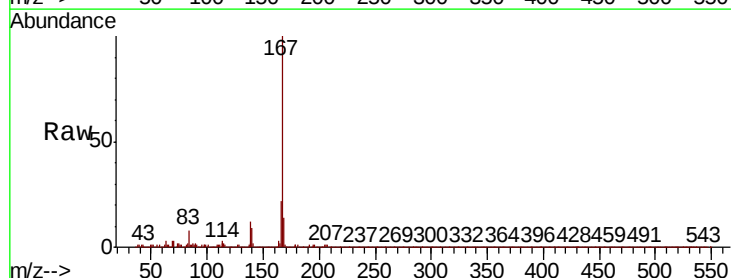
Tgt Ion:167 Resp: 1180492

Ion Ratio Lower Upper

167 100

166 21.8 17.1 25.7

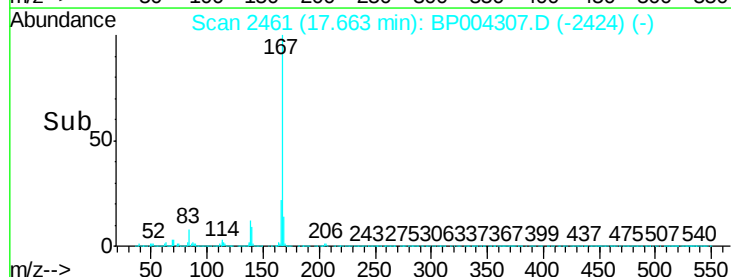
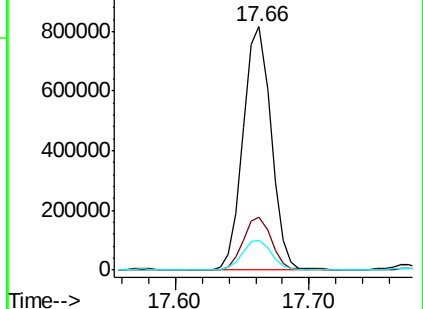
139 12.0 9.8 14.6

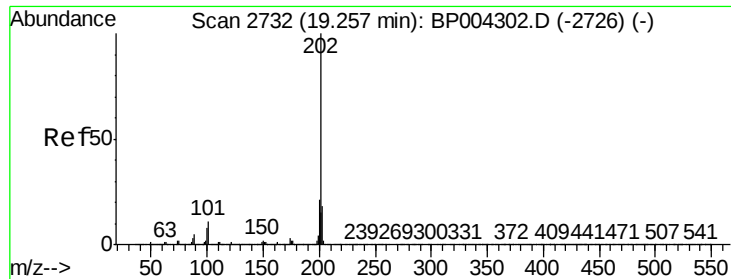


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





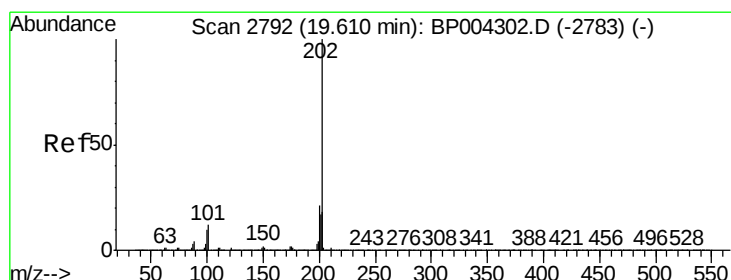
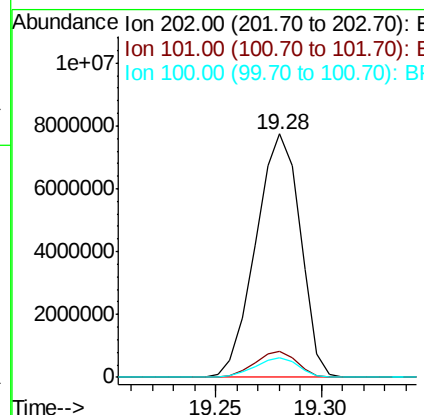
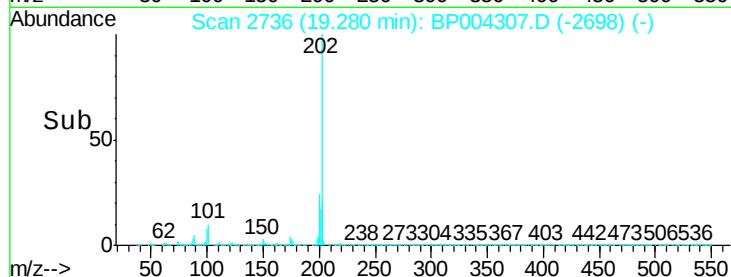
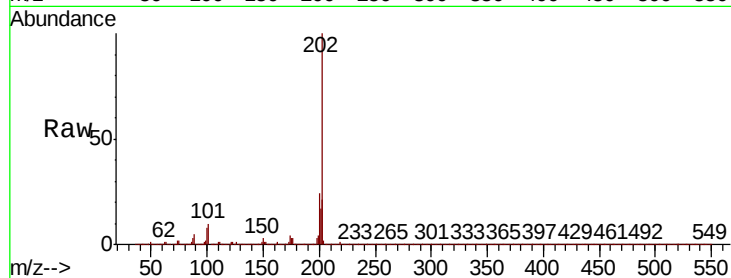
#77
Fluoranthene
Concen: 126.047 ng/ul
RT: 19.28 min Scan# 2736
Delta R.T. 0.02 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Instrument :
BNA_P
ClientSampleId :
A54C8

Tot Ion:202 Resp:11382353
Ion Ratio Lower Upper
202 100
101 10.5 9.1 13.7
100 7.9 7.1 10.7

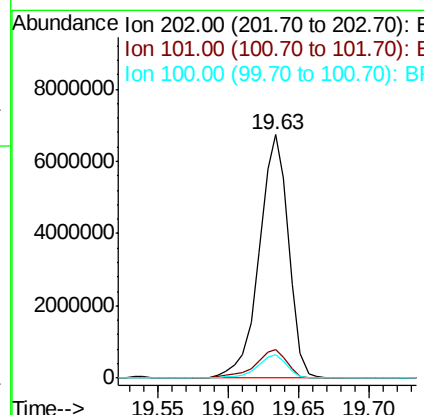
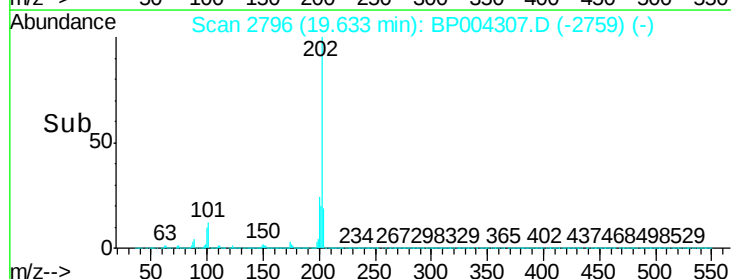
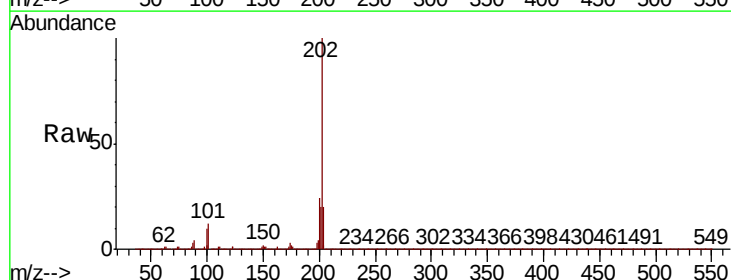
Manual Integrations
APPROVED

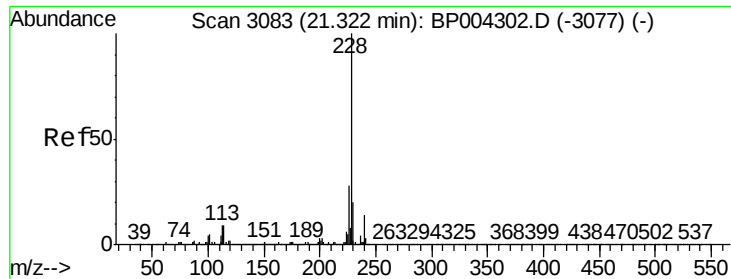
mohammad
12/17/2020 9:52:58 AM



#80
Pyrene
Concen: 111.740 ng/ul
RT: 19.63 min Scan# 2796
Delta R.T. 0.02 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Tgt Ion:202 Resp: 9798346
Ion Ratio Lower Upper
202 100
101 11.9 10.6 15.8
100 9.7 8.6 12.8





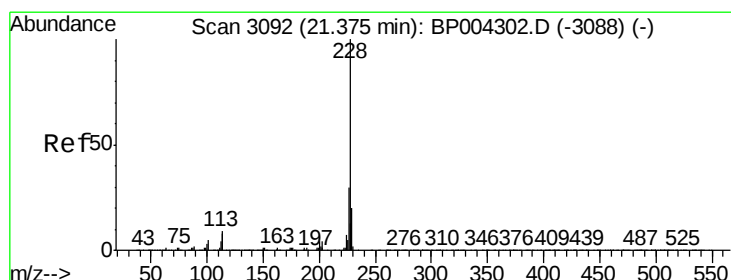
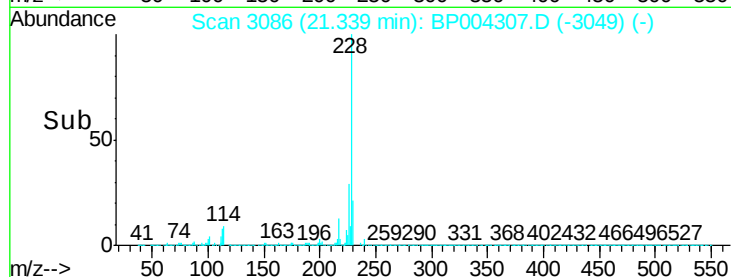
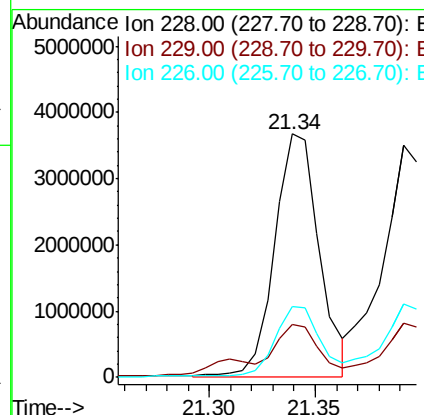
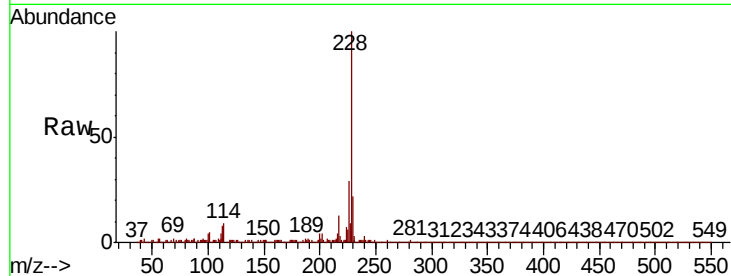
#83
Benzo(a)anthracene
Concen: 62.541 ng/ul
RT: 21.34 min Scan# 3086
Delta R.T. 0.02 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Instrument :
BNA_P
ClientSampleId :
A54C8

Tot Ion:228 Resp: 5358975
Ion Ratio Lower Upper
228 100
229 21.7 15.8 23.8
226 29.0 21.7 32.5

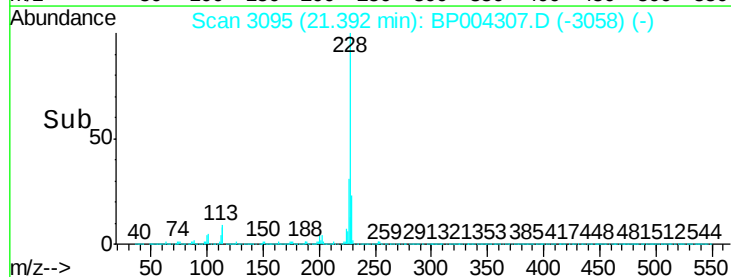
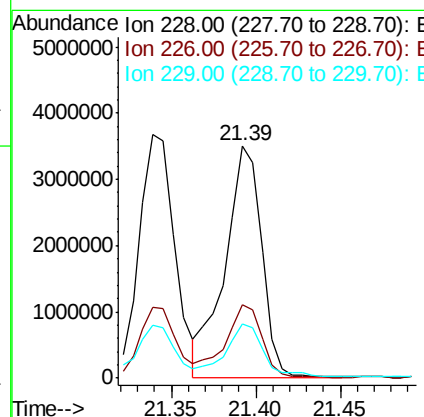
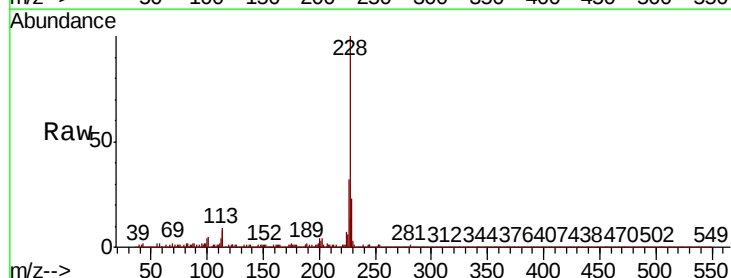
Manual Integrations
APPROVED

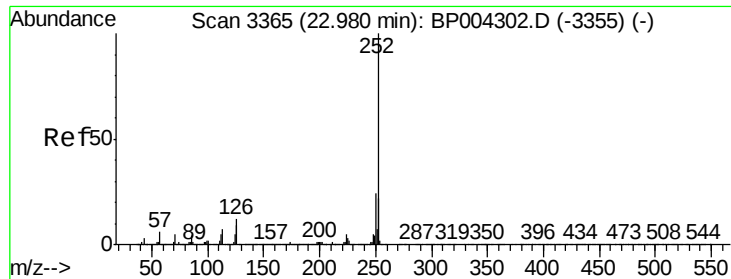
mohammad
12/17/2020 9:52:58 AM



#85
Chrysene
Concen: 62.581 ng/ul
RT: 21.39 min Scan# 3095
Delta R.T. 0.02 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Tgt Ion:228 Resp: 5260645
Ion Ratio Lower Upper
228 100
226 31.5 24.2 36.2
229 23.2 15.8 23.8





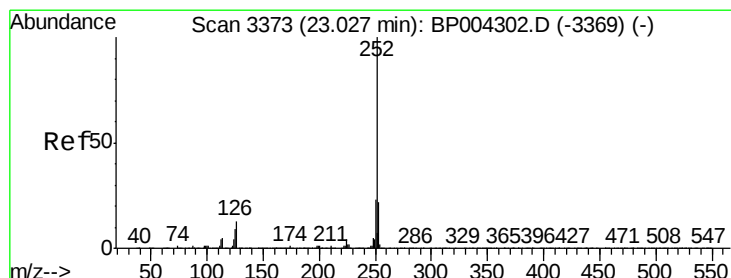
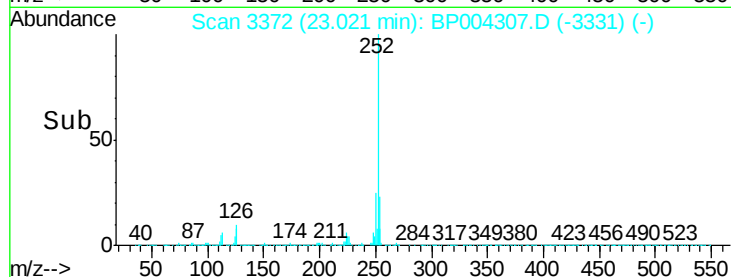
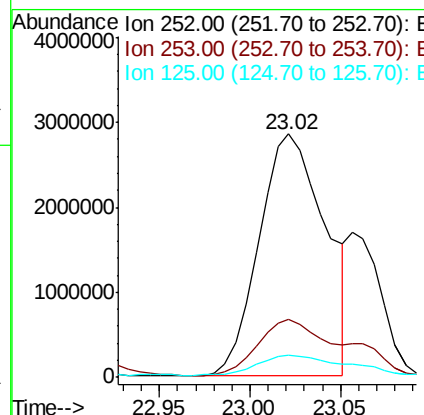
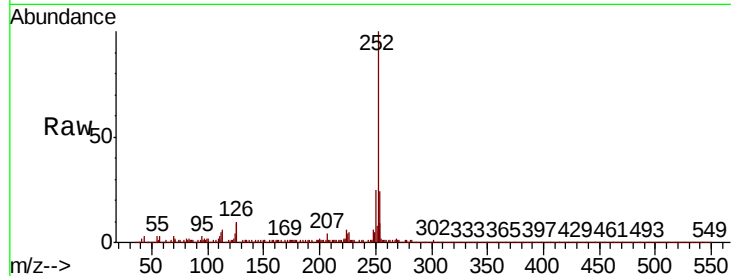
#88
Benzo(b)fluoranthene
Concen: 75.053 ng/ul
RT: 23.02 min Scan# 3372
Delta R.T. 0.04 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Instrument :
BNA_P
ClientSampleId :
A54C8

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.6	26.4
125	8.9	7.7	11.5

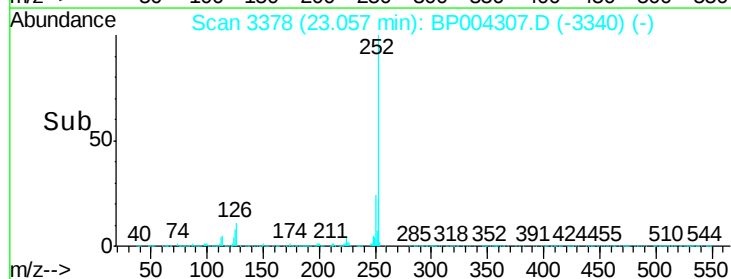
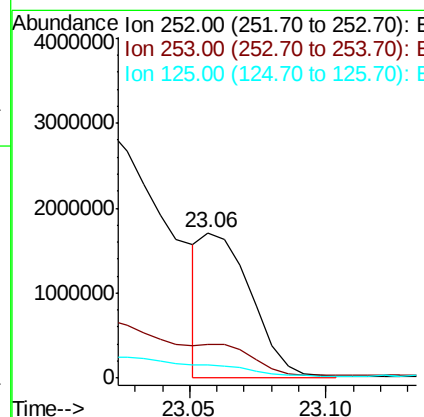
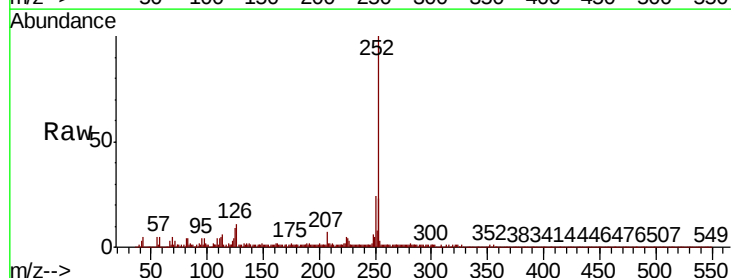
Manual Integrations
APPROVED

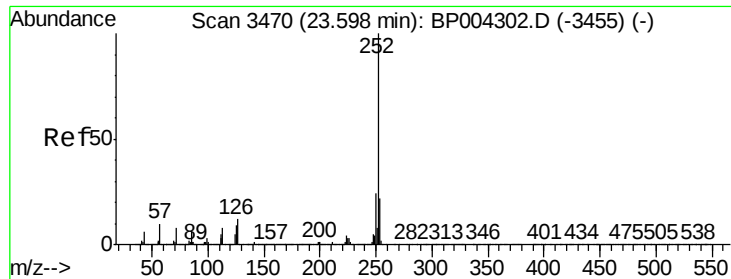
mohammad
12/17/2020 9:52:58 AM



#89
Benzo(k)fluoranthene
Concen: 21.869 ng/ul m
RT: 23.06 min Scan# 3378
Delta R.T. 0.02 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.2
125	9.4	7.3	10.9





#91

Benzo(a)pyrene

Concen: 53.707 ng/ul

RT: 23.64 min Scan# 3477

Delta R.T. 0.04 min

Lab File: BP004307.D

Acq: 15 Dec 2020 16:45

Instrument :

BNA_P

ClientSampleId :

A54C8

Tot Ion:252 Resp: 4851431

Ion Ratio Lower Upper

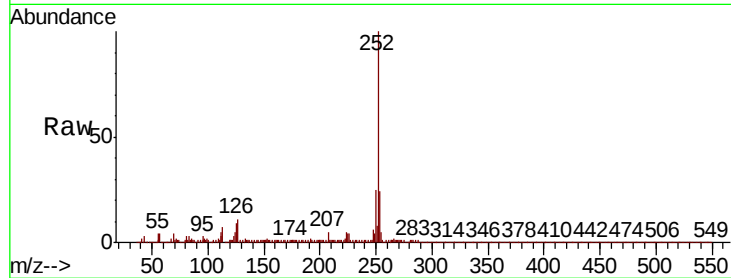
252 100

253 23.6 17.3 25.9

125 9.1 7.8 11.6

Manual Integrations
APPROVED

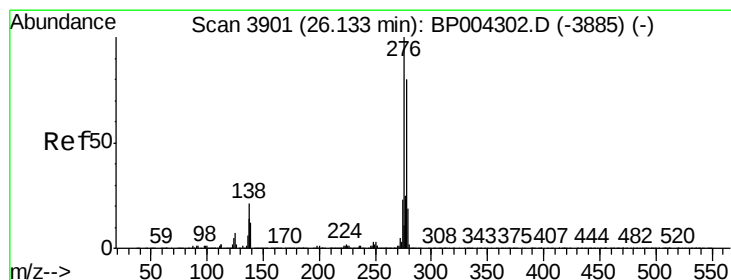
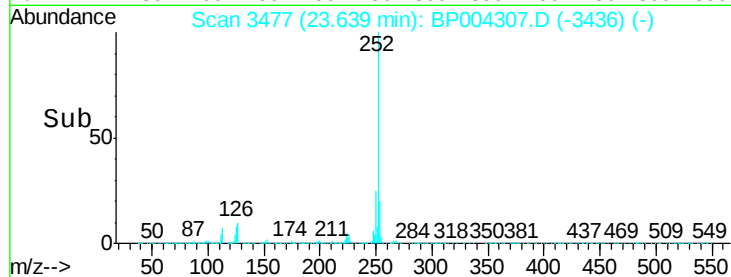
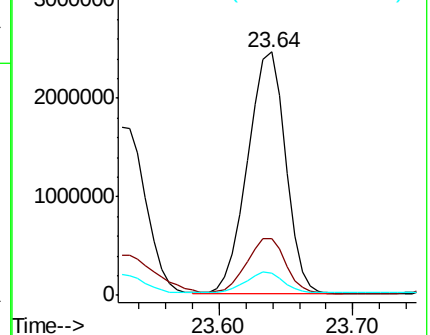
mohammad
12/17/2020 9:52:58 AM



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 30.512 ng/ul

RT: 26.19 min Scan# 3911

Delta R.T. 0.05 min

Lab File: BP004307.D

Acq: 15 Dec 2020 16:45

Tgt Ion:276 Resp: 3456456

Ion Ratio Lower Upper

276 100

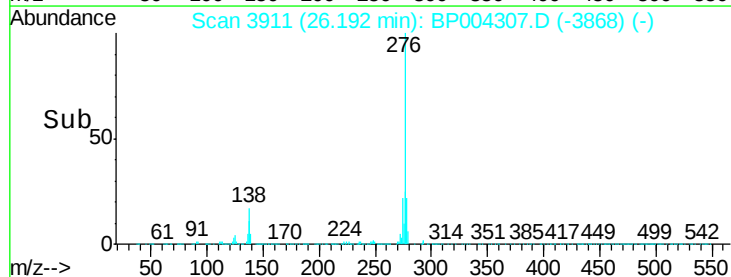
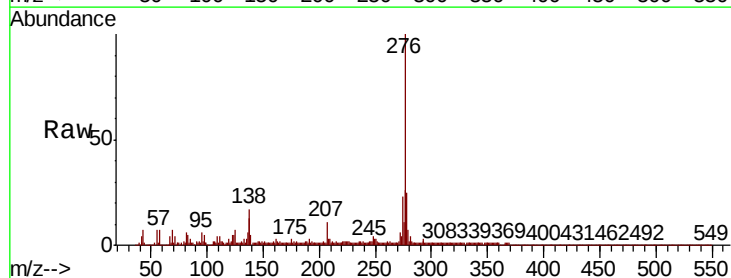
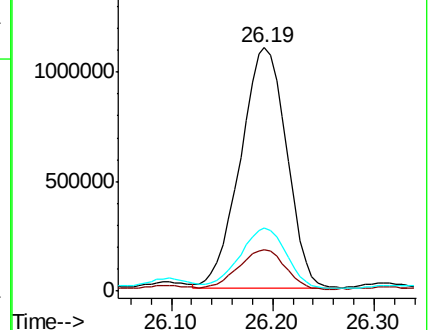
138 17.0 17.8 26.6#

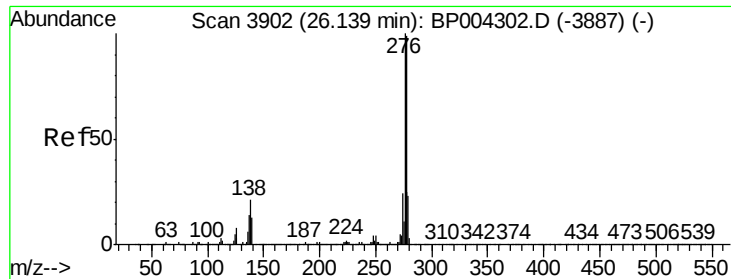
277 25.7 19.8 29.6

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





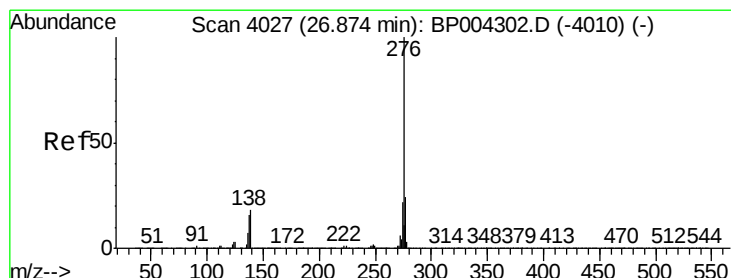
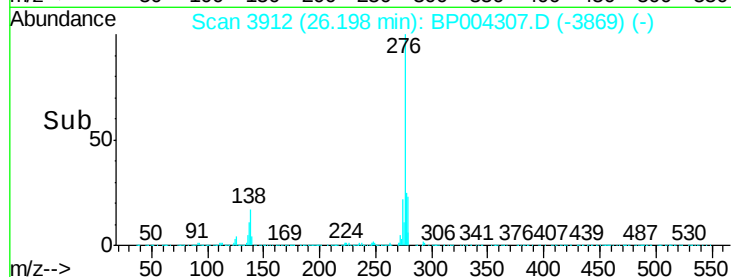
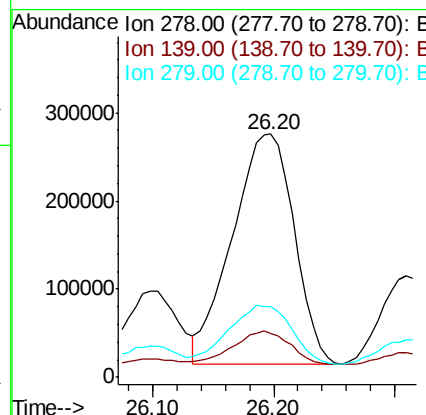
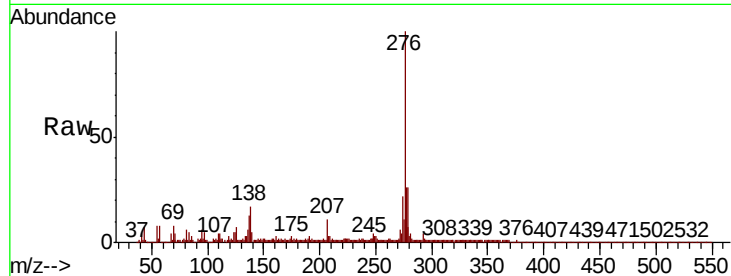
#93
Dibenzo(a,h)anthracene
Concen: 9.765 ng/ul
RT: 26.20 min Scan# 3912
Delta R.T. 0.05 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Instrument :
BNA_P
ClientSampleId :
A54C8

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.3	11.9	17.9#
279	28.8	18.6	28.0#

Manual Integrations
APPROVED

mohammad
12/17/2020 9:52:58 AM



#94
Benzo(g,h,i)perylene
Concen: 28.805 ng/ul
RT: 26.95 min Scan# 4040
Delta R.T. 0.07 min
Lab File: BP004307.D
Acq: 15 Dec 2020 16:45

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.1	16.6	25.0
277	25.0	18.5	27.7

