

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
 Data File : BM034322.D
 Acq On : 22 Mar 2022 22:28
 Operator : CG/JU
 Sample : N1958-14
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C-14-13-14

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/23/2022
 Supervised By : Jagrut Upadhyay 03/23/2022

Quant Time: Mar 23 05:07:46 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 16 02:38:26 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.937	152	169823	20.000	ng	-0.01
21) Naphthalene-d8	10.748	136	670155	20.000	ng	-0.02
39) Acenaphthene-d10	14.578	164	403136	20.000	ng	-0.01
64) Phenanthrene-d10	17.319	188	789173	20.000	ng	-0.01
76) Chrysene-d12	21.495	240	772686	20.000	ng	0.00
86) Perylene-d12	23.900	264	858531	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.490	112	761721	80.466	ng	-0.01
7) Phenol-d6	7.096	99	976569	72.052	ng	-0.01
23) Nitrobenzene-d5	9.101	82	616128	44.762	ng	-0.01
42) 2,4,6-Tribromophenol	16.060	330	366084	67.372	ng	-0.01
45) 2-Fluorobiphenyl	13.207	172	1264761	42.871	ng	-0.01
79) Terphenyl-d14	19.936	244	1687045	37.938	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.801	128	414260	11.865	ng	100
37) 2-Methylnaphthalene	12.413	142	120549	4.839	ng	99
38) 1-Methylnaphthalene	12.631	142	120158	4.931	ng	98
49) Acenaphthylene	14.301	152	106480	2.895	ng	# 96
52) Acenaphthene	14.642	154	186139	7.515	ng	97
55) Dibenzofuran	14.972	168	234341	6.348	ng	97
58) Fluorene	15.625	166	396311	13.224	ng	99
71) Phenanthrene	17.366	178	3113724	70.454	ng	100
72) Anthracene	17.454	178	717771	16.686	ng	99
73) Carbazole	17.719	167	281676	7.021	ng	99
75) Fluoranthene	19.377	202	2936215	59.265	ng	99
78) Pyrene	19.736	202	2630962	48.328	ng	100
81) Benzo(a)anthracene	21.477	228	1241421	25.455	ng	98
83) Chrysene	21.530	228	1100362	22.095	ng	98
87) Indeno(1,2,3-cd)pyrene	26.412	276	607063	10.992	ng	98
88) Benzo(b)fluoranthene	23.171	252	1280619	24.945	ng	97
89) Benzo(k)fluoranthene	23.212	252	453369m	8.337	ng	
90) Benzo(a)pyrene	23.800	252	998371	22.940	ng	99
91) Dibenzo(a,h)anthracene	26.418	278	165688	3.700	ng	92
92) Benzo(g,h,i)perylene	27.188	276	598520	12.913	ng	99

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

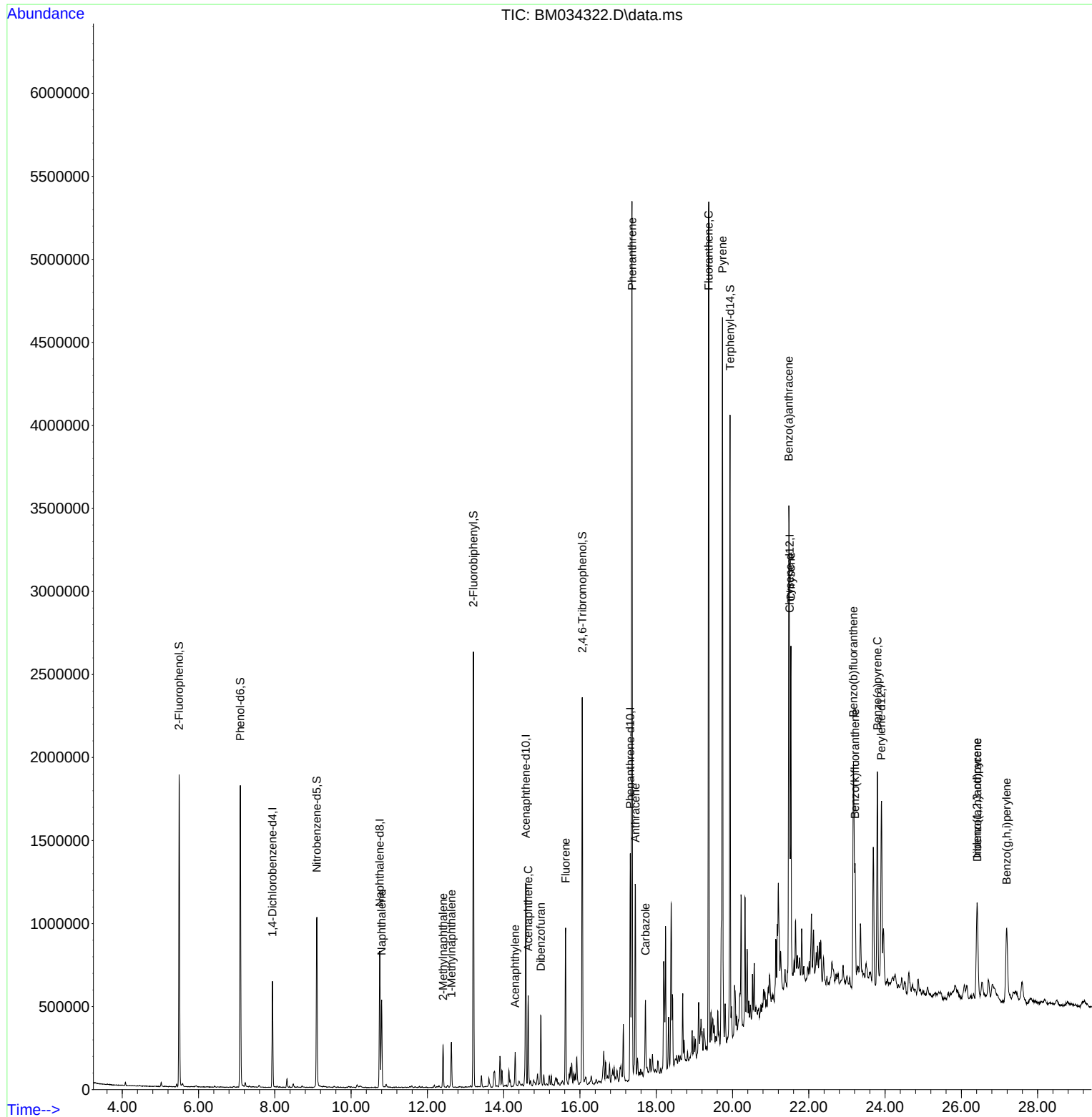
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034322.D
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ALS Vial : 12 Sample Multiplier: 1

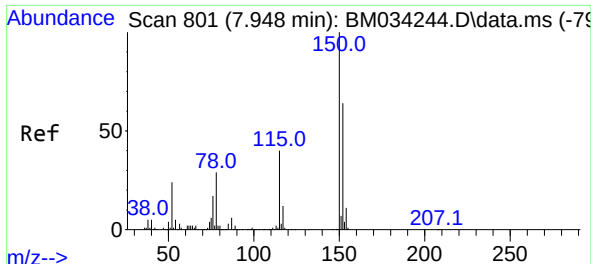
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Quant Time: Mar 23 05:07:46 2022
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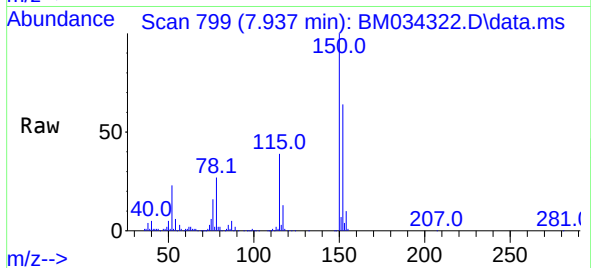
Reviewed By : Christian Giraldo 03/23/2022
Supervised By : Jagrut Upadhyay 03/23/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.937 min Scan# 79
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

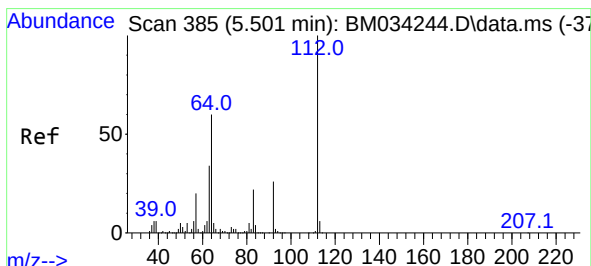
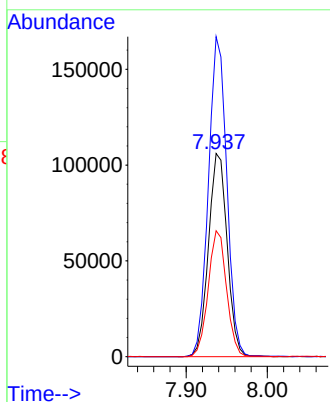
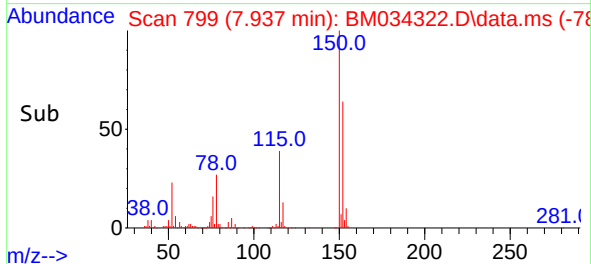
Instrument :
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C-14-13-14



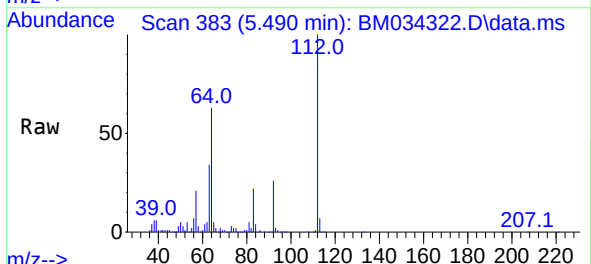
Tgt Ion:152 Resp: 16982
Ion Ratio Lower Upper
152 100
150 157.5 125.4 188.2
115 62.0 50.1 75.1

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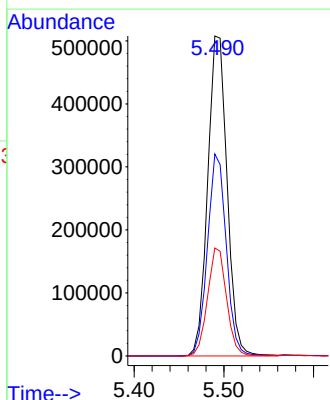
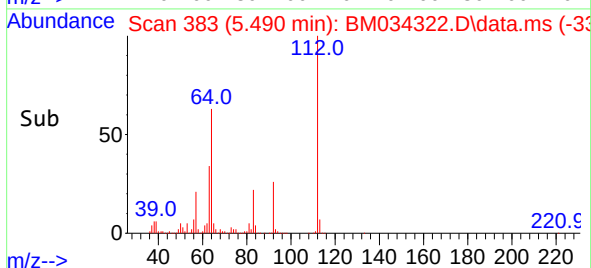
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

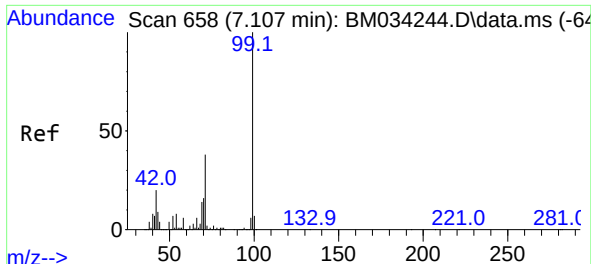


#5
2-Fluorophenol
Concen: 80.466 ng
RT: 5.490 min Scan# 383
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



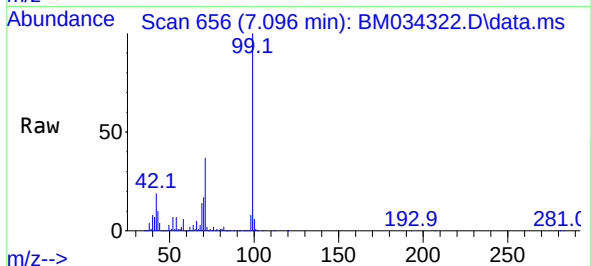
Tgt Ion:112 Resp: 761721
Ion Ratio Lower Upper
112 100
64 63.1 47.9 71.9
63 33.7 27.1 40.7





#7
Phenol-d6
Concen: 72.052 ng
RT: 7.096 min Scan# 61
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

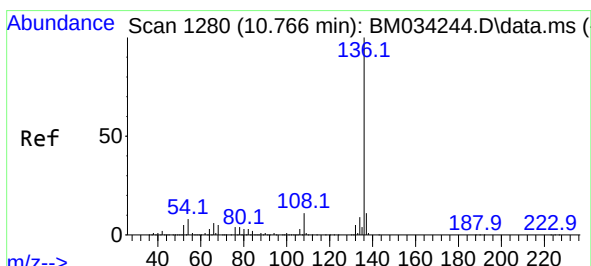
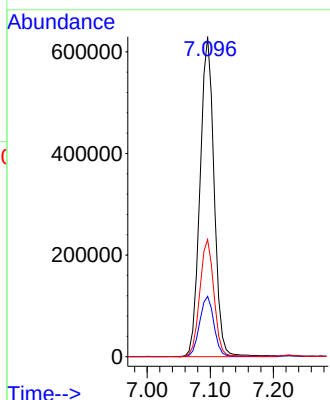
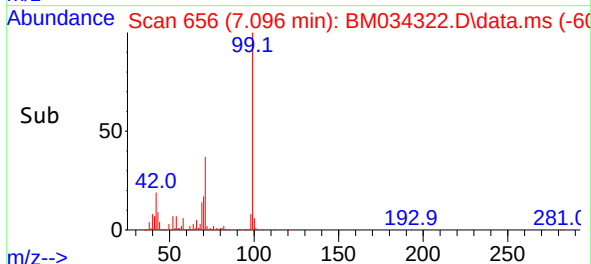
Instrument :
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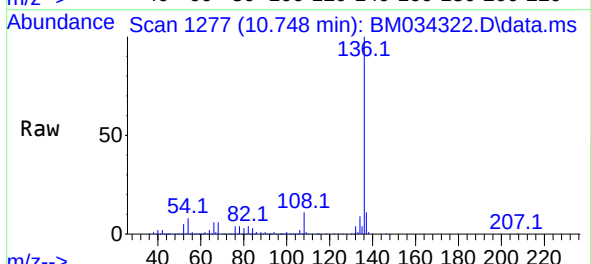
Tgt Ion: 99 Resp: 97656
Ion Ratio Lower Upper
99 100
42 18.9 15.6 23.4
71 36.6 30.6 46.0

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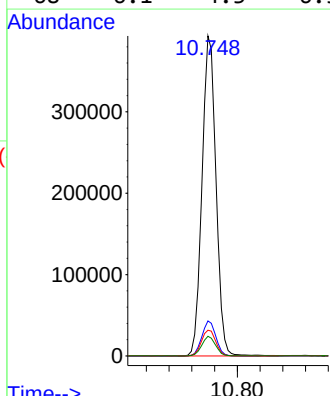
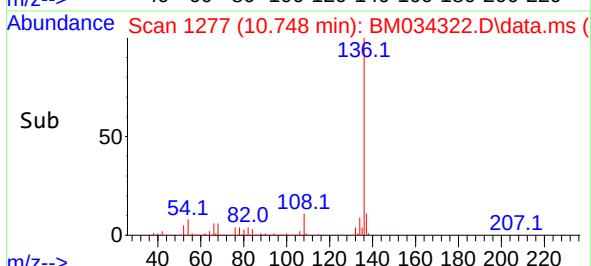
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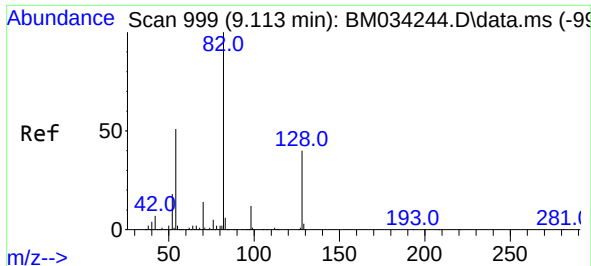


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.748 min Scan# 1277
Delta R.T. -0.017 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



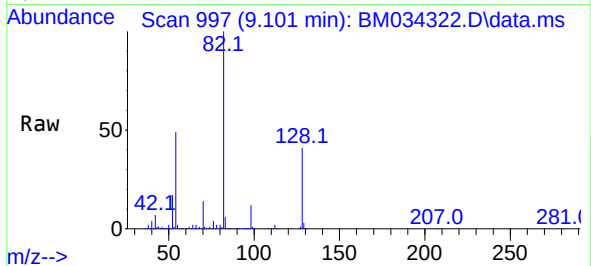
Tgt Ion:136 Resp: 670155
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.1 6.2 9.4
68 6.1 4.3 6.5





#23
Nitrobenzene-d5
Concen: 44.762 ng
RT: 9.101 min Scan# 999
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

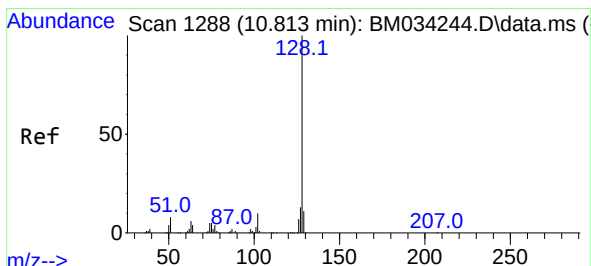
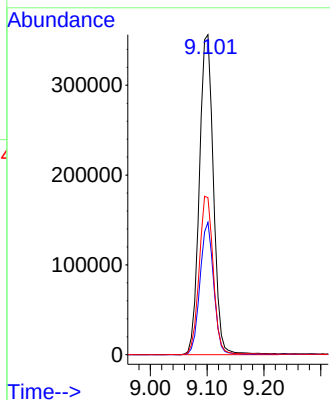
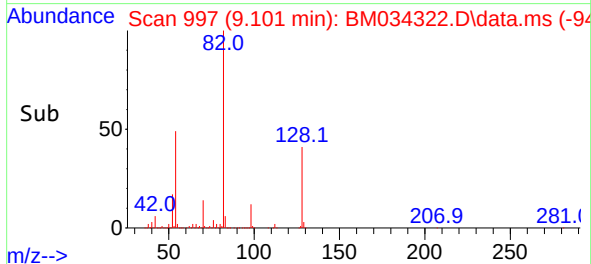
Instrument :
BNA_M
ClientSampleId :
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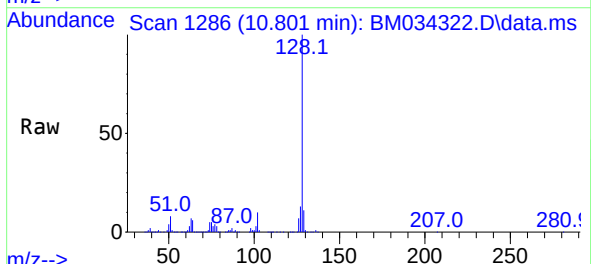
Tgt Ion: 82 Resp: 616128
Ion Ratio Lower Upper
82 100
128 41.3 31.9 47.9
54 49.0 40.6 61.0

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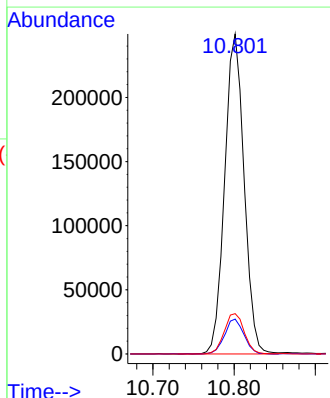
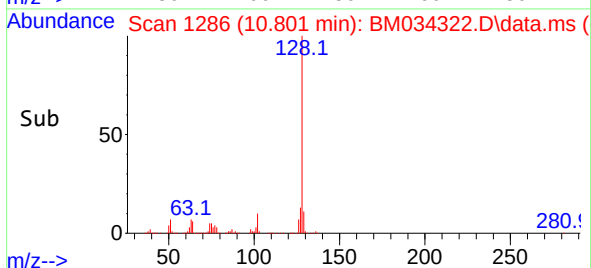
Reviewed By :Christian Giraldo 03/23/2022
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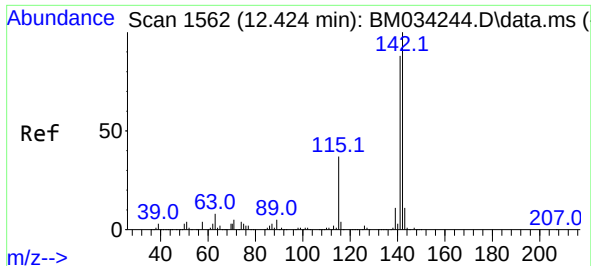


#31
Naphthalene
Concen: 11.865 ng
RT: 10.801 min Scan# 1286
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



Tgt Ion:128 Resp: 414260
Ion Ratio Lower Upper
128 100
129 10.9 8.8 13.2
127 12.6 10.2 15.4





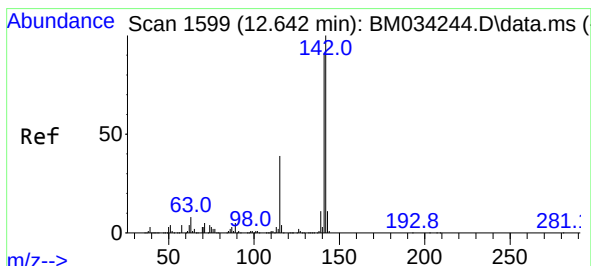
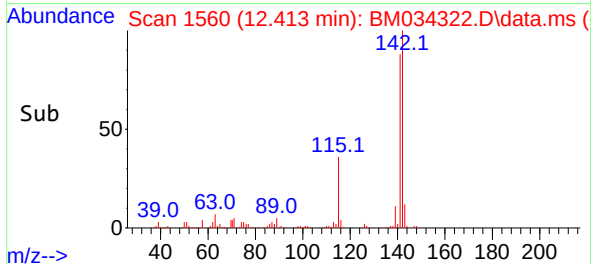
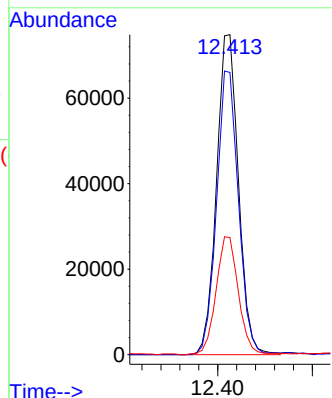
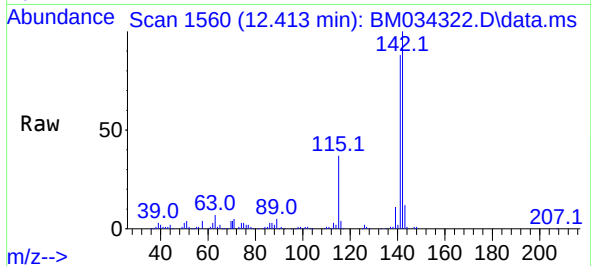
#37
2-Methylnaphthalene
Concen: 4.839 ng
RT: 12.413 min Scan# 1562
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Instrument :
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ClientSampleId :
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Tgt Ion:142 Resp: 120549
Ion Ratio Lower Upper
142 100
141 88.2 70.1 105.1
115 36.6 29.9 44.9

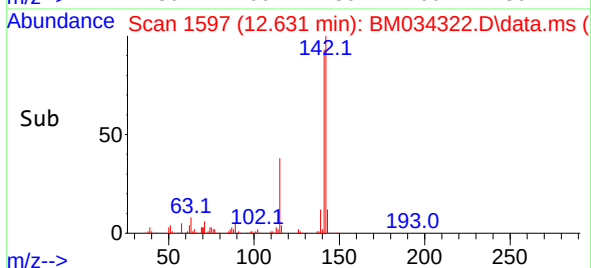
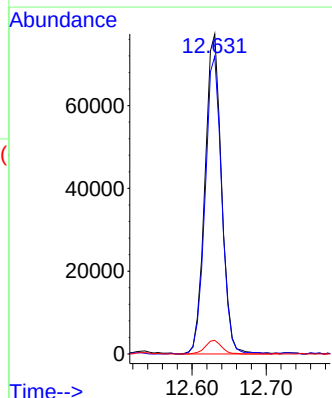
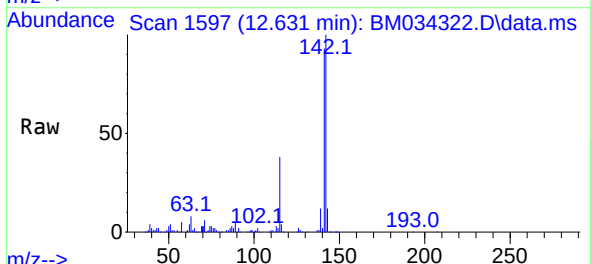
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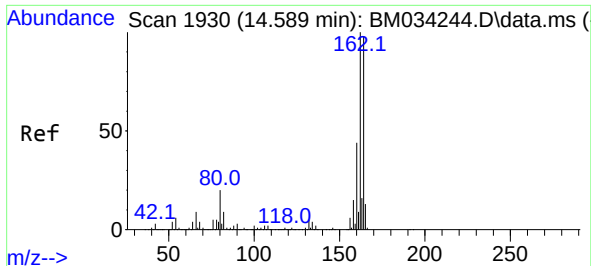
Reviewed By :Christian Giraldo 03/23/2022
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#38
1-Methylnaphthalene
Concen: 4.931 ng
RT: 12.631 min Scan# 1597
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

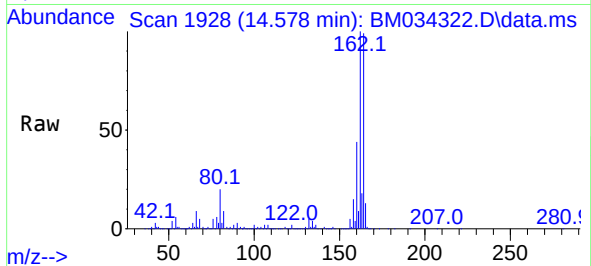
Tgt Ion:142 Resp: 120158
Ion Ratio Lower Upper
142 100
141 93.0 73.0 109.6
116 4.3 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.578 min Scan# 1930
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

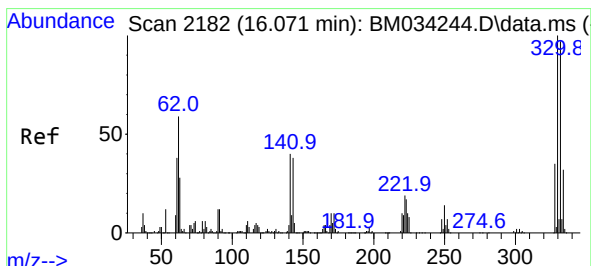
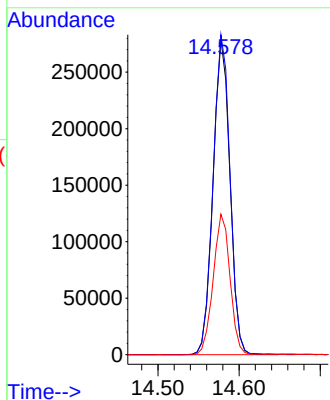
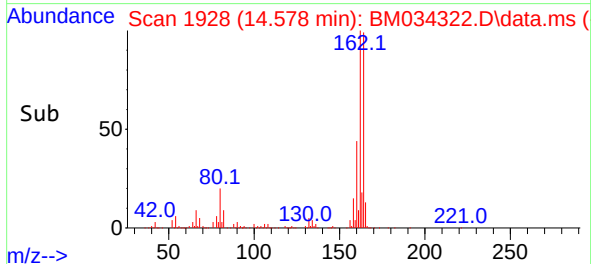
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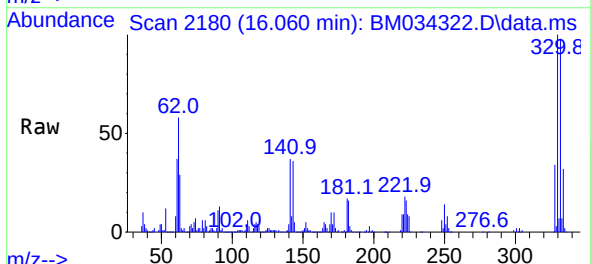
Tgt Ion:164 Resp: 403130
Ion Ratio Lower Upper
164 100
162 101.5 81.6 122.4
160 44.6 35.6 53.4

Manual Integrations
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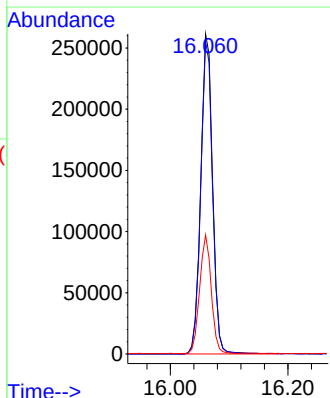
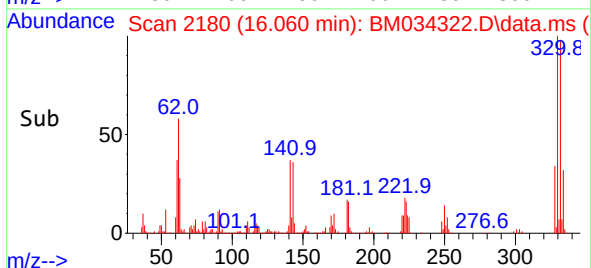
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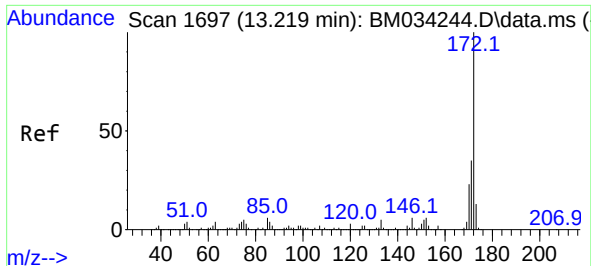


#42
2,4,6-Tribromophenol
Concen: 67.372 ng
RT: 16.060 min Scan# 2180
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



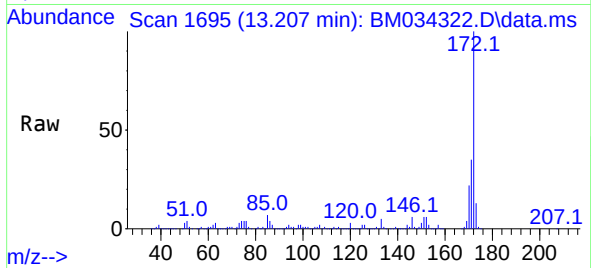
Tgt Ion:330 Resp: 366084
Ion Ratio Lower Upper
330 100
332 97.1 78.2 117.4
141 36.3 30.6 45.8





#45
2-Fluorobiphenyl
Concen: 42.871 ng
RT: 13.207 min Scan# 1695
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

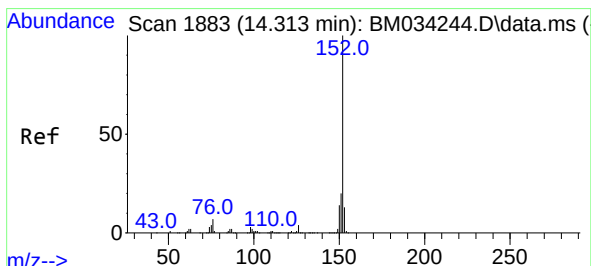
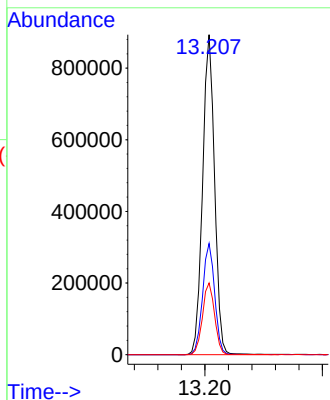
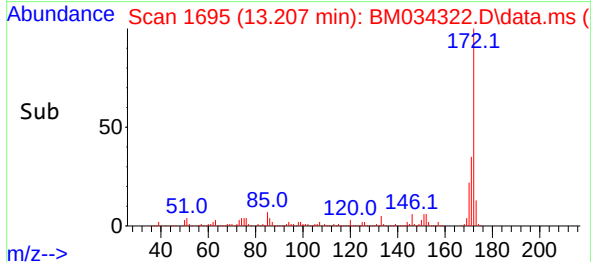
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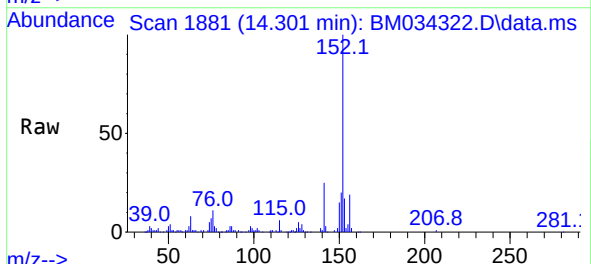
Tgt Ion:172 Resp: 126476
Ion Ratio Lower Upper
172 100
171 34.8 28.0 42.0
170 22.4 18.6 28.0

Manual Integrations
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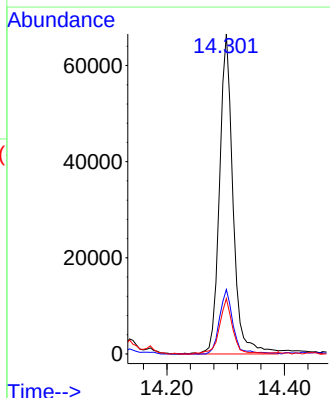
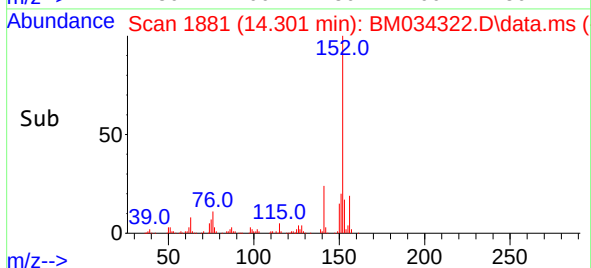
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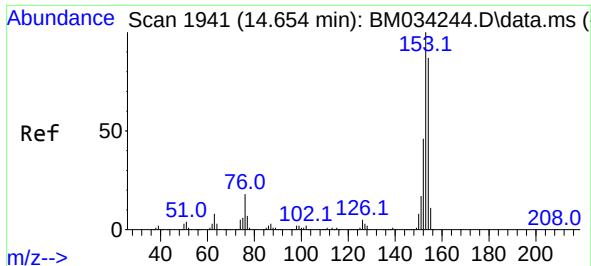


#49
Acenaphthylene
Concen: 2.895 ng
RT: 14.301 min Scan# 1881
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



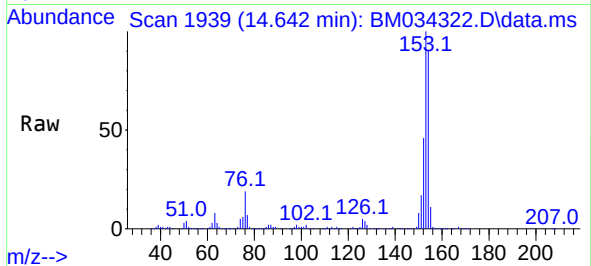
Tgt Ion:152 Resp: 106480
Ion Ratio Lower Upper
152 100
151 20.2 15.9 23.9
153 17.3 10.6 16.0





#52
Acenaphthene
Concen: 7.515 ng
RT: 14.642 min Scan# 1941
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

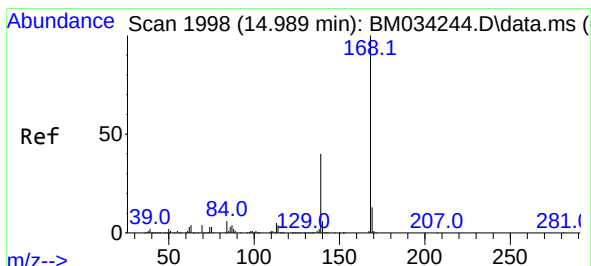
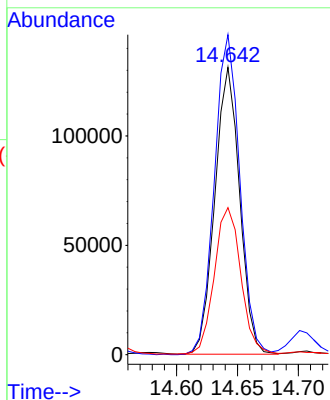
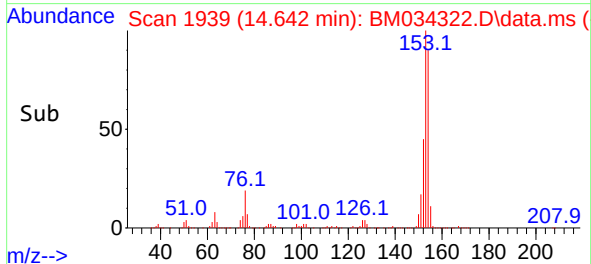
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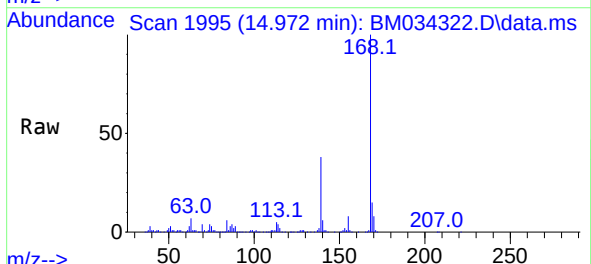
Tgt Ion:154 Resp: 186139
Ion Ratio Lower Upper
154 100
153 111.3 91.8 137.8
152 51.2 42.6 64.0

Manual Integrations
APPROVED

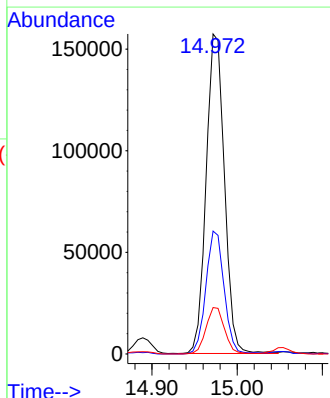
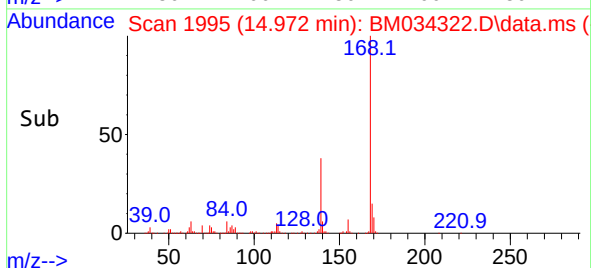
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

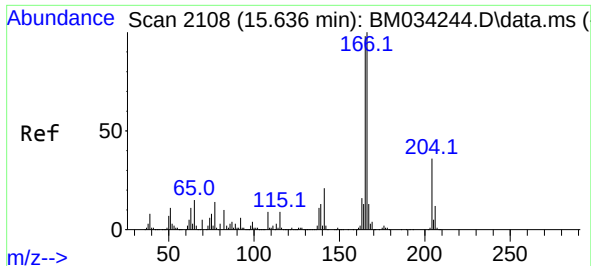


#55
Dibenzofuran
Concen: 6.348 ng
RT: 14.972 min Scan# 1995
Delta R.T. -0.017 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



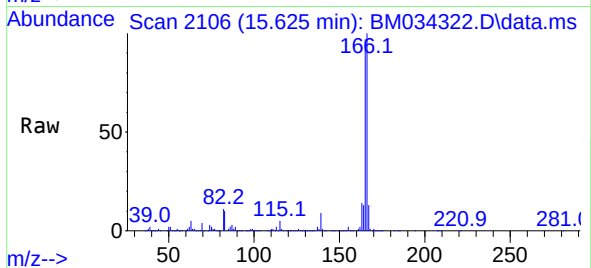
Tgt Ion:168 Resp: 234341
Ion Ratio Lower Upper
168 100
139 38.4 32.4 48.6
169 14.5 10.8 16.2





#58
Fluorene
Concen: 13.224 ng
RT: 15.625 min Scan# 2106
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

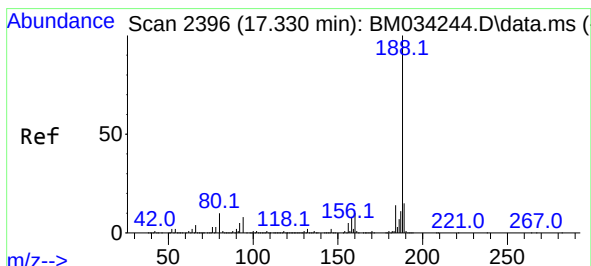
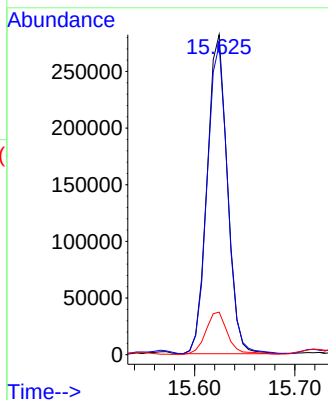
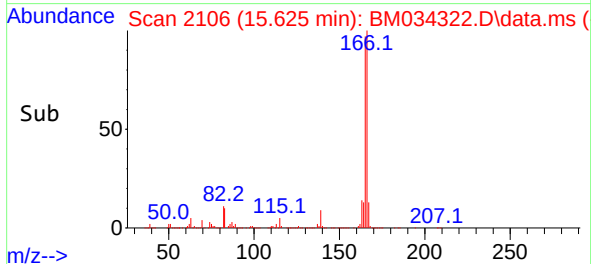
Instrument :
BNA_M
ClientSampleId :
C-14-13-14



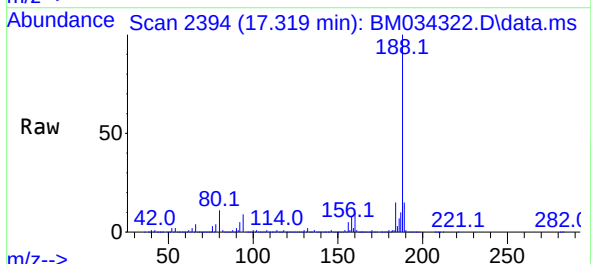
Tgt Ion:166 Resp: 39631
Ion Ratio Lower Upper
166 100
165 96.9 78.0 117.0
167 13.3 10.5 15.7

Manual Integrations
APPROVED

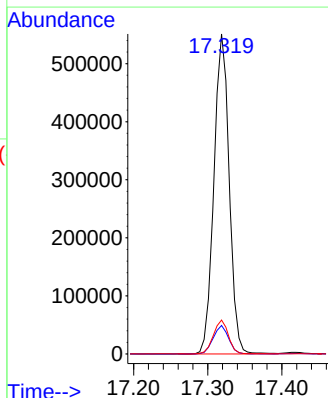
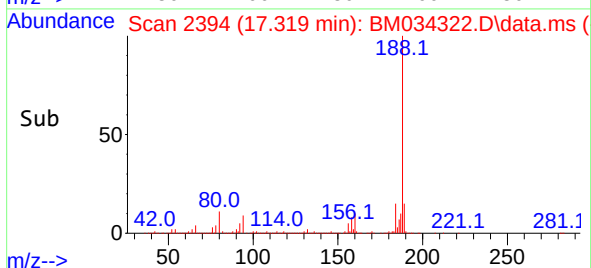
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

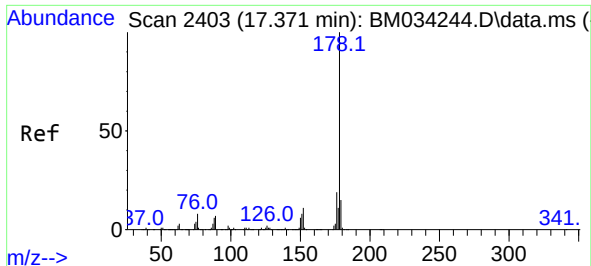


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.319 min Scan# 2394
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



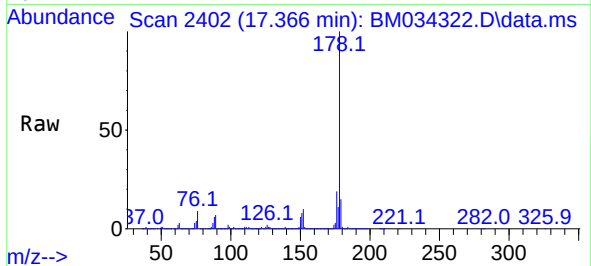
Tgt Ion:188 Resp: 789173
Ion Ratio Lower Upper
188 100
94 8.9 6.6 9.8
80 10.6 7.8 11.8





#71
Phenanthrene
Concen: 70.454 ng
RT: 17.366 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

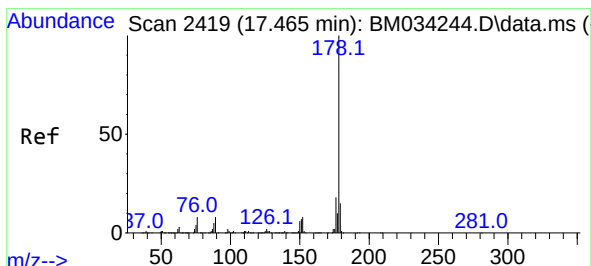
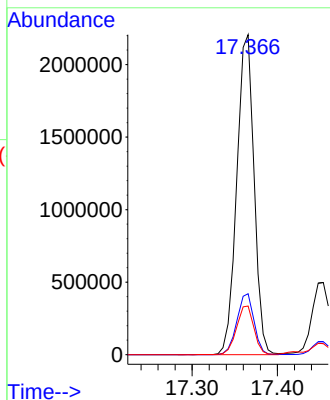
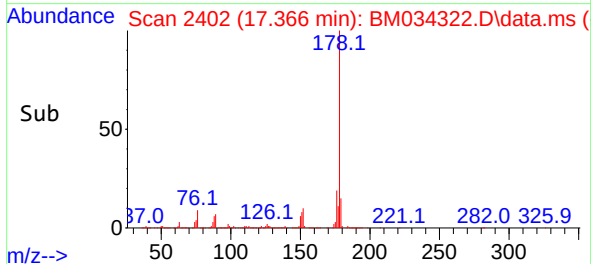
Instrument :
BNA_M
ClientSampleId :
C-14-13-14



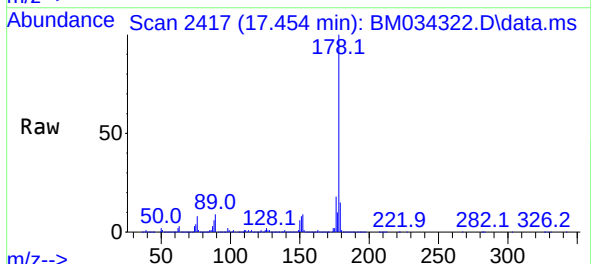
Tgt Ion:178 Resp: 3113724
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.2 12.2 18.4

Manual Integrations
APPROVED

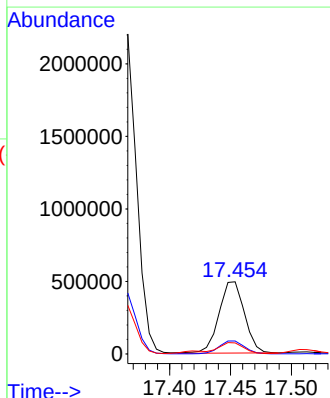
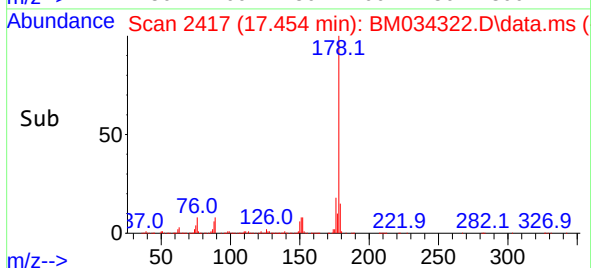
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

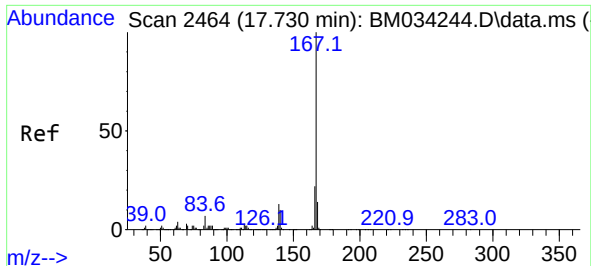


#72
Anthracene
Concen: 16.686 ng
RT: 17.454 min Scan# 2417
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



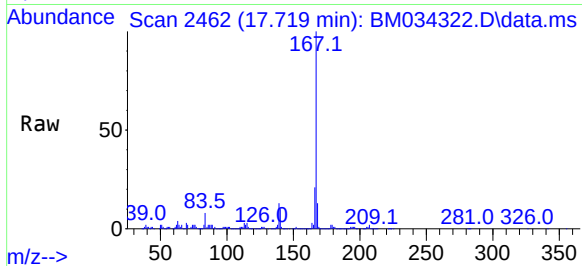
Tgt Ion:178 Resp: 717771
Ion Ratio Lower Upper
178 100
176 18.1 14.6 22.0
179 15.4 12.2 18.2





#73
 Carbazole
 Concen: 7.021 ng
 RT: 17.719 min Scan# 2462
 Delta R.T. -0.011 min
 Lab File: BM034322.D
 Acq: 22 Mar 2022 22:28

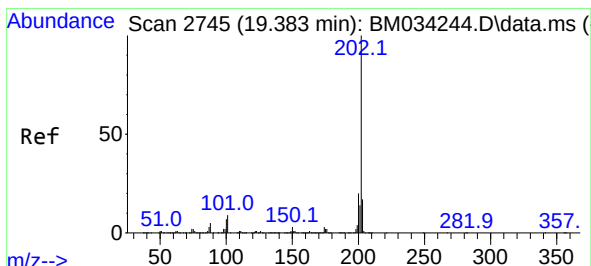
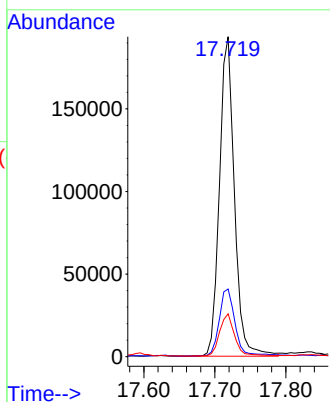
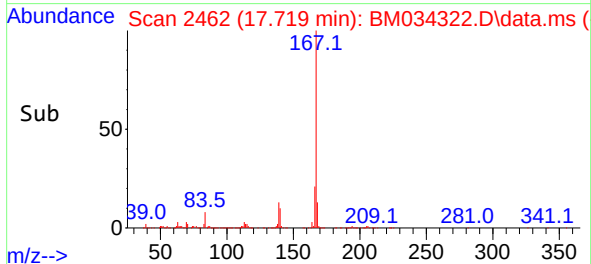
Instrument :
 BNA_M
 ClientSampleId :
 C-14-13-14



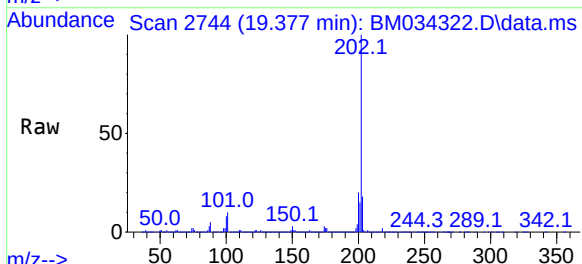
Tgt Ion:167 Resp: 281670
 Ion Ratio Lower Upper
 167 100
 166 21.2 17.4 26.2
 139 13.4 10.4 15.6

Manual Integrations
 APPROVED

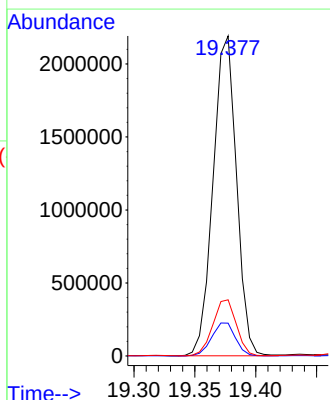
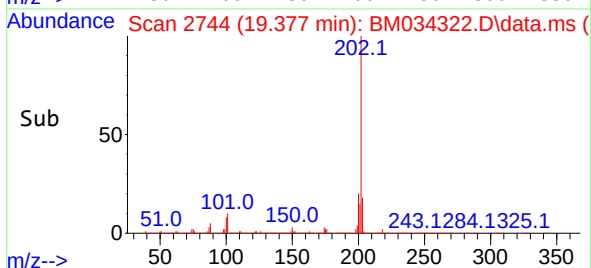
Reviewed By :Christian Giraldo 03/23/2022
 Supervised By :Jagrut Upadhyay 03/23/2022

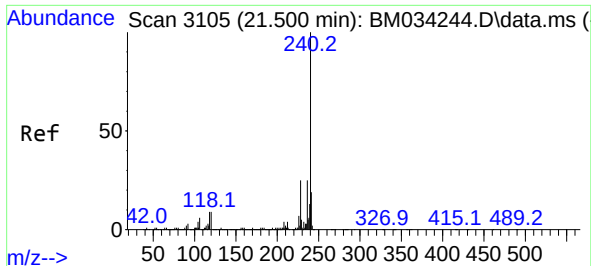


#75
 Fluoranthene
 Concen: 59.265 ng
 RT: 19.377 min Scan# 2744
 Delta R.T. -0.006 min
 Lab File: BM034322.D
 Acq: 22 Mar 2022 22:28



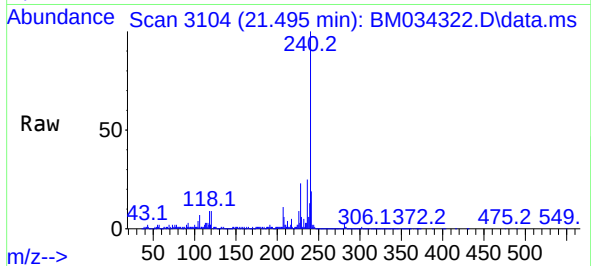
Tgt Ion:202 Resp: 2936215
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 29.4
 203 17.5 0.0 37.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.495 min Scan# 3105
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

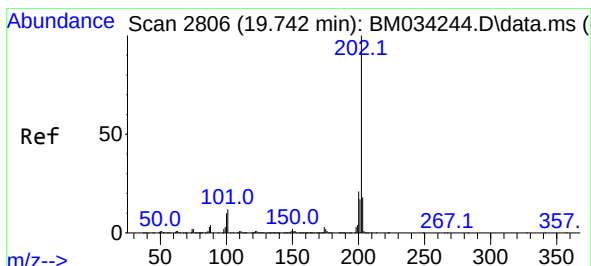
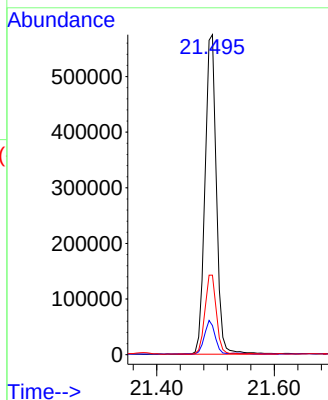
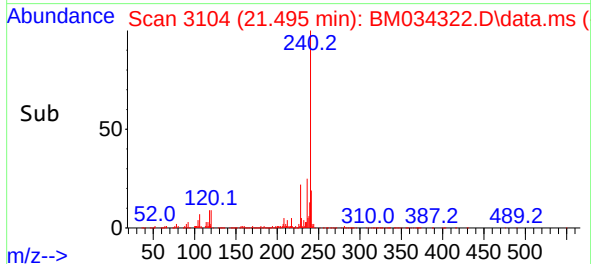
Instrument :
BNA_M
ClientSampleId :
C-14-13-14



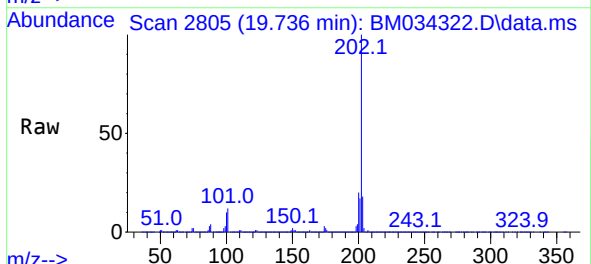
Tgt Ion:240 Resp: 772680
Ion Ratio Lower Upper
240 100
120 9.1 7.3 10.9
236 24.9 20.2 30.2

Manual Integrations
APPROVED

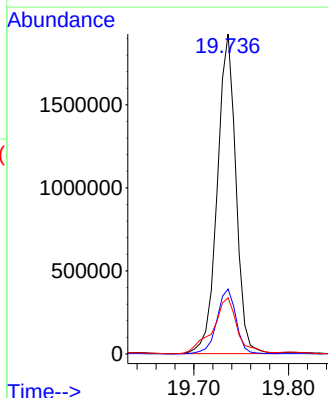
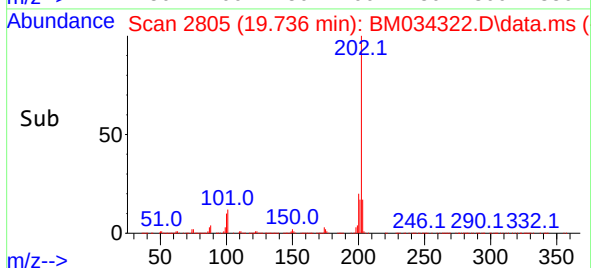
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

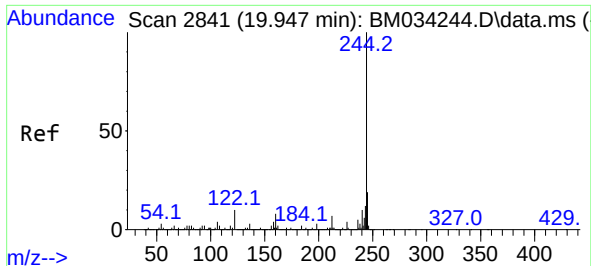


#78
Pyrene
Concen: 48.328 ng
RT: 19.736 min Scan# 2805
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



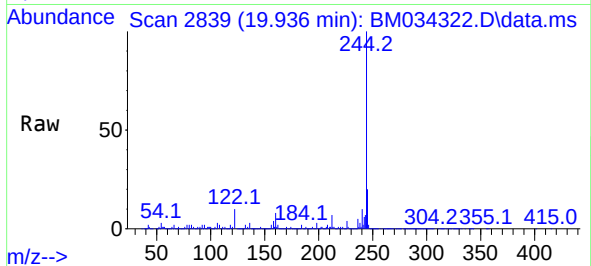
Tgt Ion:202 Resp: 2630962
Ion Ratio Lower Upper
202 100
200 20.3 16.6 24.8
203 17.6 14.1 21.1





#79
Terphenyl-d14
Concen: 37.938 ng
RT: 19.936 min Scan# 21
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

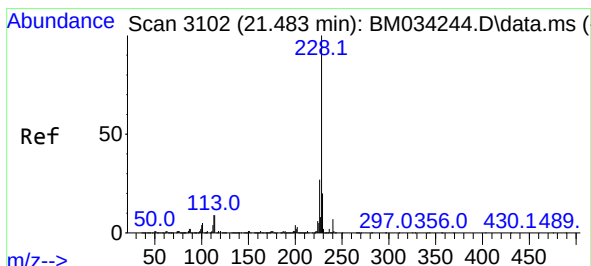
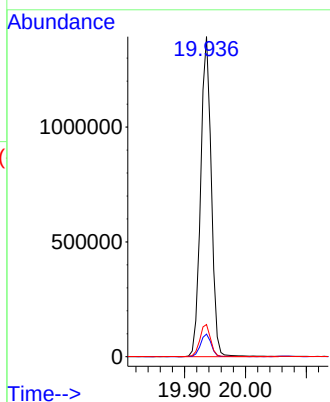
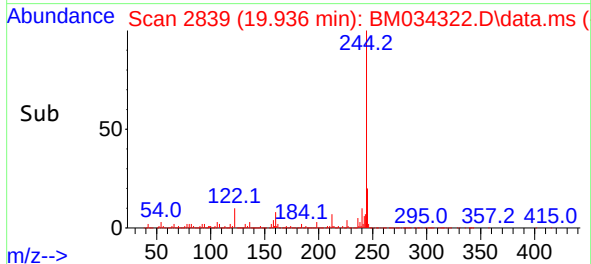
Instrument :
BNA_M
ClientSampleId :
C-14-13-14



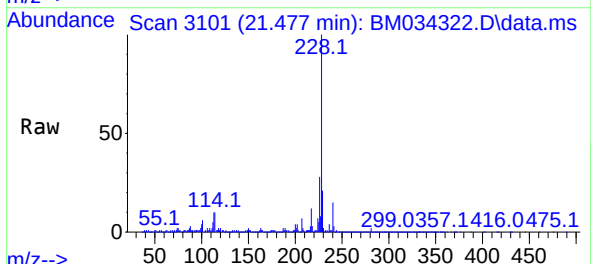
Tgt Ion:244 Resp: 1687049
Ion Ratio Lower Upper
244 100
212 7.0 5.9 8.9
122 10.0 7.8 11.8

Manual Integrations
APPROVED

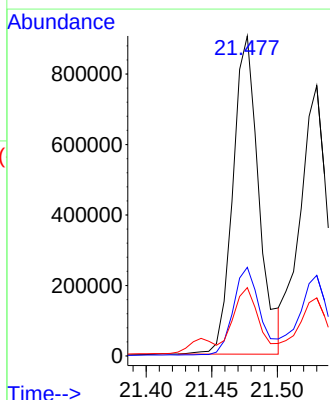
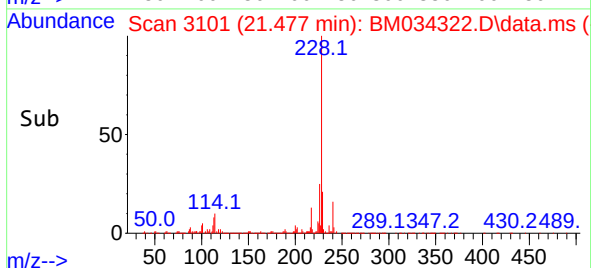
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

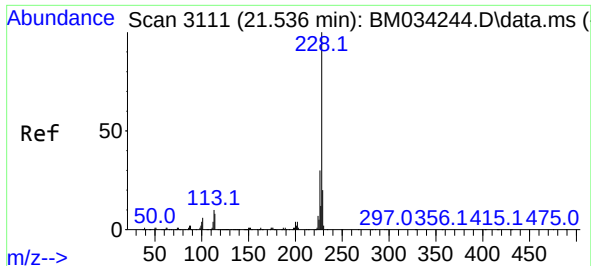


#81
Benzo(a)anthracene
Concen: 25.455 ng
RT: 21.477 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



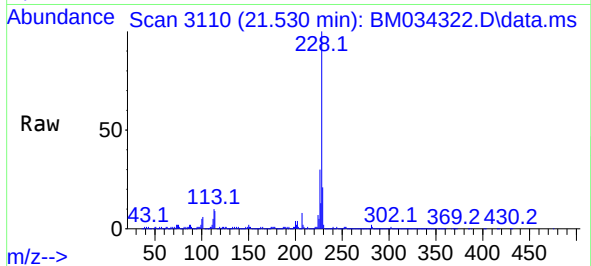
Tgt Ion:228 Resp: 1241421
Ion Ratio Lower Upper
228 100
226 27.7 21.6 32.4
229 21.4 15.8 23.6





#83
Chrysene
Concen: 22.095 ng
RT: 21.530 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

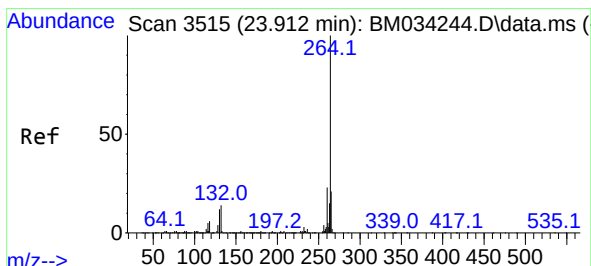
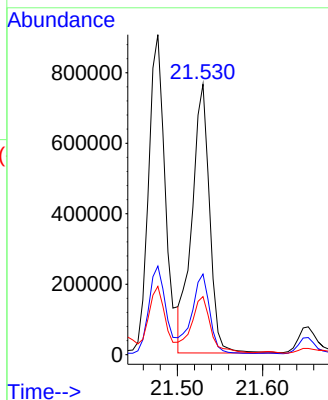
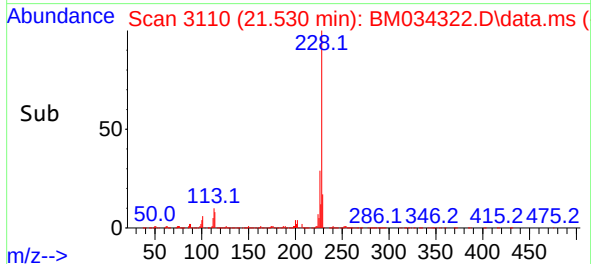
Instrument :
BNA_M
ClientSampleId :
C-14-13-14



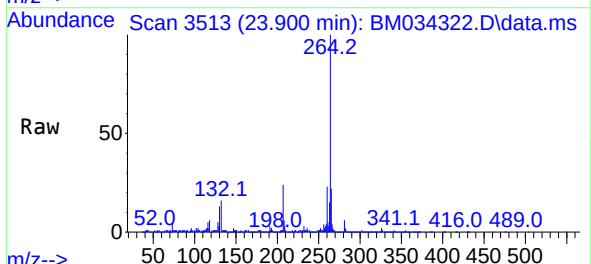
Tgt Ion:228 Resp: 1100362
Ion Ratio Lower Upper
228 100
226 29.8 23.8 35.6
229 21.5 15.6 23.4

Manual Integrations
APPROVED

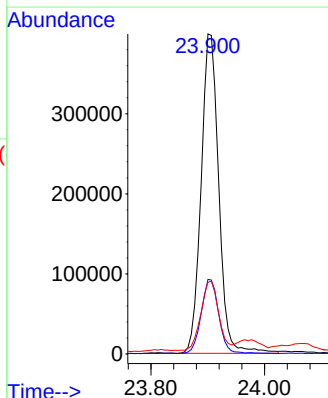
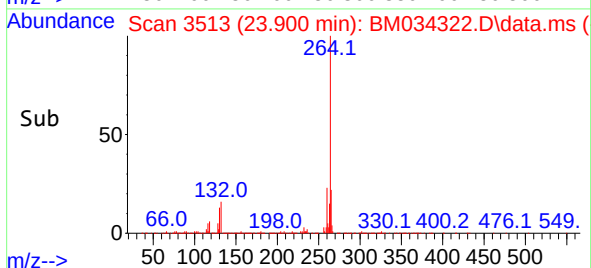
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

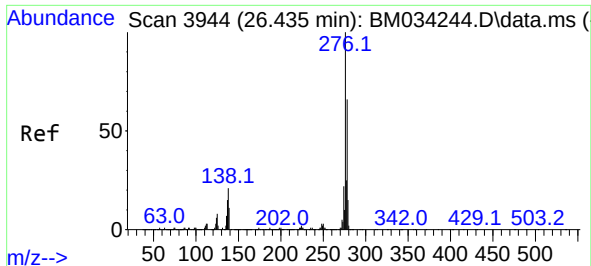


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.900 min Scan# 3513
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



Tgt Ion:264 Resp: 858531
Ion Ratio Lower Upper
264 100
260 23.3 18.6 28.0
265 22.4 17.6 26.4





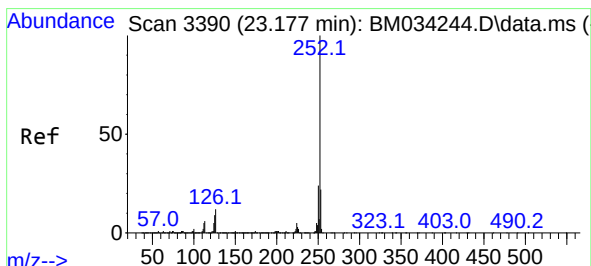
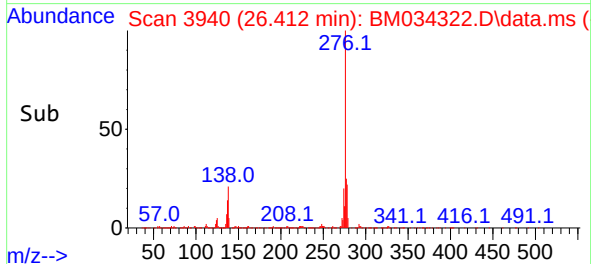
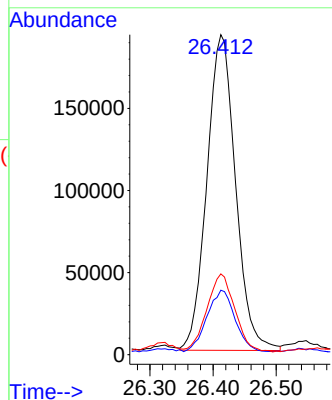
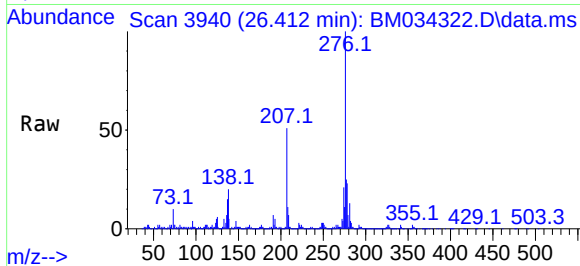
#87
Indeno(1,2,3-cd)pyrene
Concen: 10.992 ng
RT: 26.412 min Scan# 3940
Delta R.T. -0.023 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Instrument :
BNA_M
ClientSampleId :
C-14-13-14

Tgt Ion:276 Resp: 60706
Ion Ratio Lower Upper
276 100
138 19.7 16.6 25.0
277 24.2 19.8 29.6

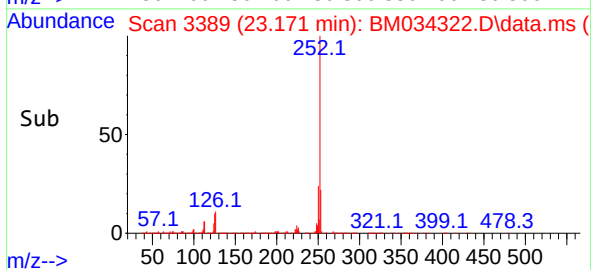
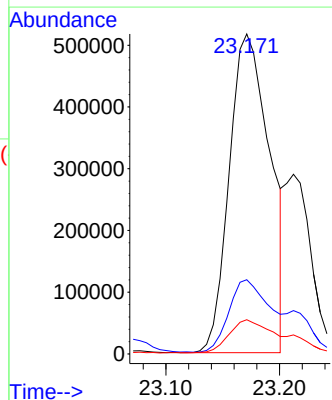
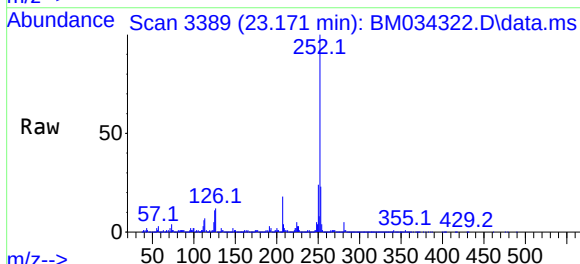
Manual Integrations
APPROVED

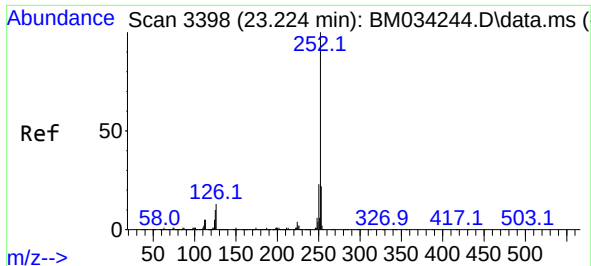
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#88
Benzo(b)fluoranthene
Concen: 24.945 ng
RT: 23.171 min Scan# 3389
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:252 Resp: 1280619
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 10.7 7.2 10.8





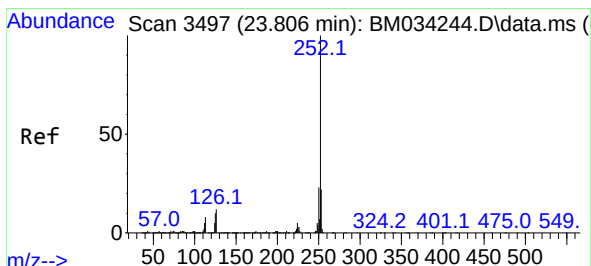
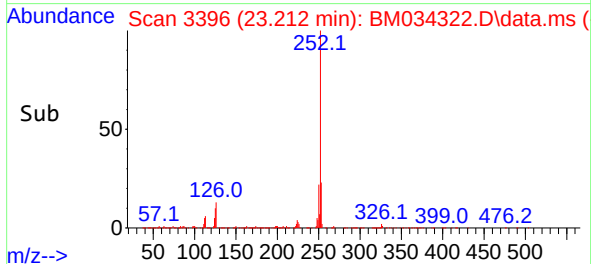
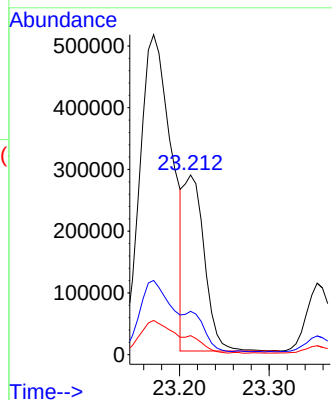
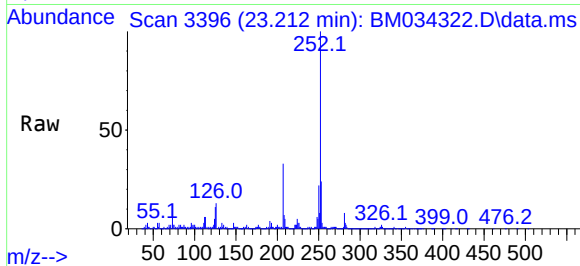
#89
Benzo(k)fluoranthene
Concen: 8.337 ng m
RT: 23.212 min Scan# 31
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Instrument :
BNA_M
ClientSampleId :
C-14-13-14

Tgt Ion:252 Resp: 453369
Ion Ratio Lower Upper
252 100
253 24.2 17.6 26.4
125 10.6 7.5 11.3

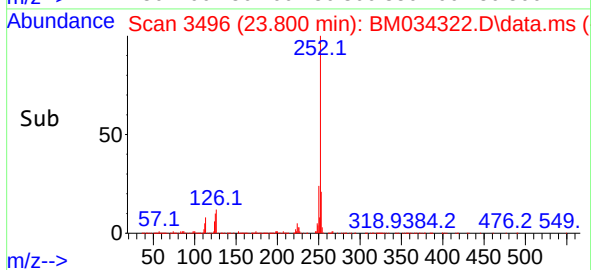
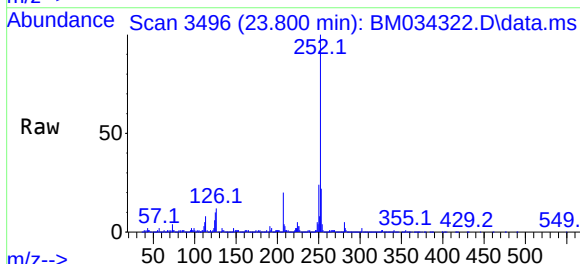
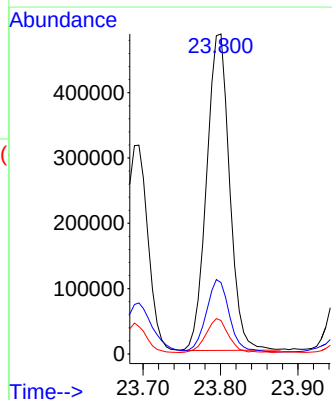
Manual Integrations
APPROVED

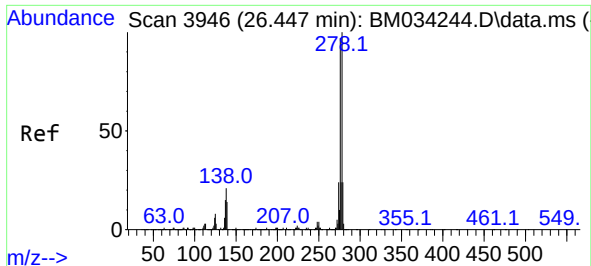
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#90
Benzo(a)pyrene
Concen: 22.940 ng
RT: 23.800 min Scan# 3496
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

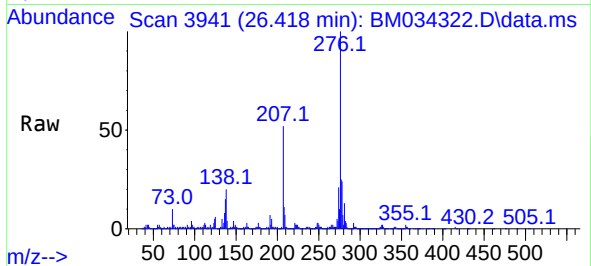
Tgt Ion:252 Resp: 998371
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.4 7.8 11.6





#91
Dibenzo(a,h)anthracene
Concen: 3.700 ng
RT: 26.418 min Scan# 3941
Delta R.T. -0.029 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

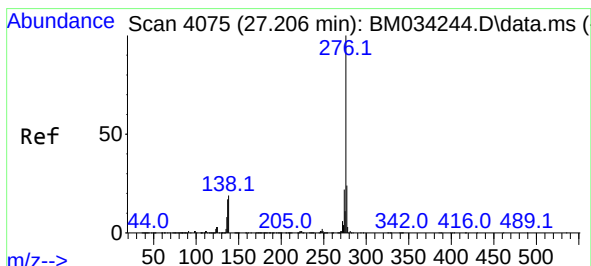
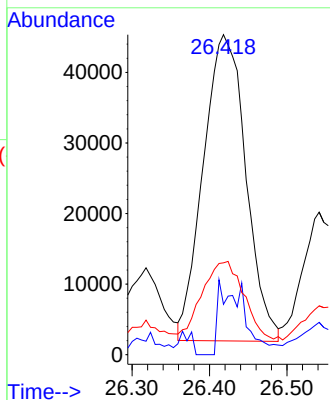
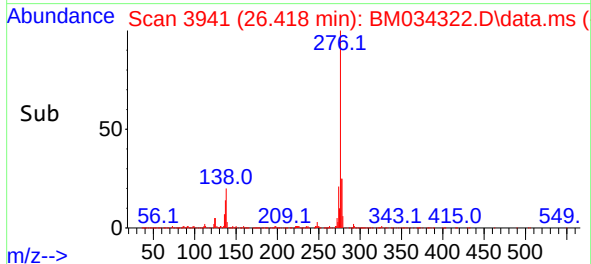
Instrument :
BNA_M
ClientSampleId :
C-14-13-14



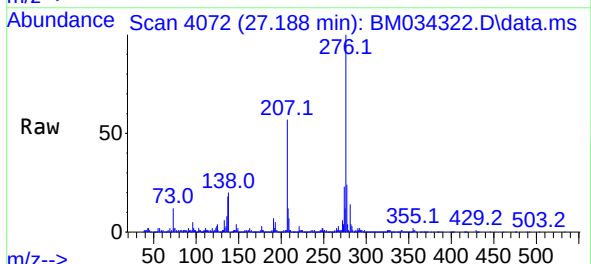
Tgt Ion:278 Resp: 16568
Ion Ratio Lower Upper
278 100
139 15.8 11.2 16.8
279 28.7 19.2 28.8

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#92
Benzo(g,h,i)perylene
Concen: 12.913 ng
RT: 27.188 min Scan# 4072
Delta R.T. -0.017 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28



Tgt Ion:276 Resp: 598520
Ion Ratio Lower Upper
276 100
277 24.2 19.0 28.4
138 19.8 15.6 23.4

