

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP011123\
 Data File : BP013456.D
 Acq On : 11 Jan 2023 22:11
 Operator : CG/JU
 Sample : 01109-01 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OR-03-011023

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/12/2023
 Supervised By : Jagrut Upadhyay 01/12/2023

Quant Time: Jan 12 02:21:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP121322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 12 02:16:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	509851	20.000	ng	0.00
21) Naphthalene-d8	10.734	136	2269481	20.000	ng	0.00
39) Acenaphthene-d10	14.569	164	1646279	20.000	ng	0.00
64) Phenanthrene-d10	17.328	188	4201749	20.000	ng	0.01
76) Chrysene-d12	21.421	240	3512816	20.000	ng	0.01
86) Perylene-d12	23.892	264	3696446	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	530255	19.003	ng	0.01
7) Phenol-d6	7.087	99	771932	21.183	ng	0.01
23) Nitrobenzene-d5	9.093	82	431408	10.421	ng	0.00
42) 2,4,6-Tribromophenol	16.063	330	551885	27.804	ng	0.00
45) 2-Fluorobiphenyl	13.187	172	1291321	10.650	ng	0.00
79) Terphenyl-d14	19.880	244	2719599	15.274	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.292	152	497892	3.272	ng	99
52) Acenaphthene	14.634	154	254179	2.687	ng	99
55) Dibenzofuran	14.969	168	341314	2.254	ng	98
58) Fluorene	15.622	166	488490	4.168	ng	98
71) Phenanthrene	17.375	178	5518973	23.083	ng	99
72) Anthracene	17.463	178	1908819	8.504	ng	100
73) Carbazole	17.733	167	508355	2.583	ng	99
75) Fluoranthene	19.339	202	9395822	36.511	ng	99
78) Pyrene	19.692	202	8198754	32.482	ng	99
81) Benzo(a)anthracene	21.404	228	4476087	18.642	ng	98
83) Chrysene	21.457	228	3807239	16.256	ng	97
87) Indeno(1,2,3-cd)pyrene	26.474	276	2382426	7.888	ng	96
88) Benzo(b)fluoranthene	23.139	252	4958383	20.834	ng	96
89) Benzo(k)fluoranthene	23.180	252	1832876m	7.613	ng	
90) Benzo(a)pyrene	23.780	252	3562973	17.839	ng	# 95
91) Dibenzo(a,h)anthracene	26.480	278	665066	2.650	ng	# 82
92) Benzo(g,h,i)perylene	27.274	276	2196659	8.833	ng	97

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

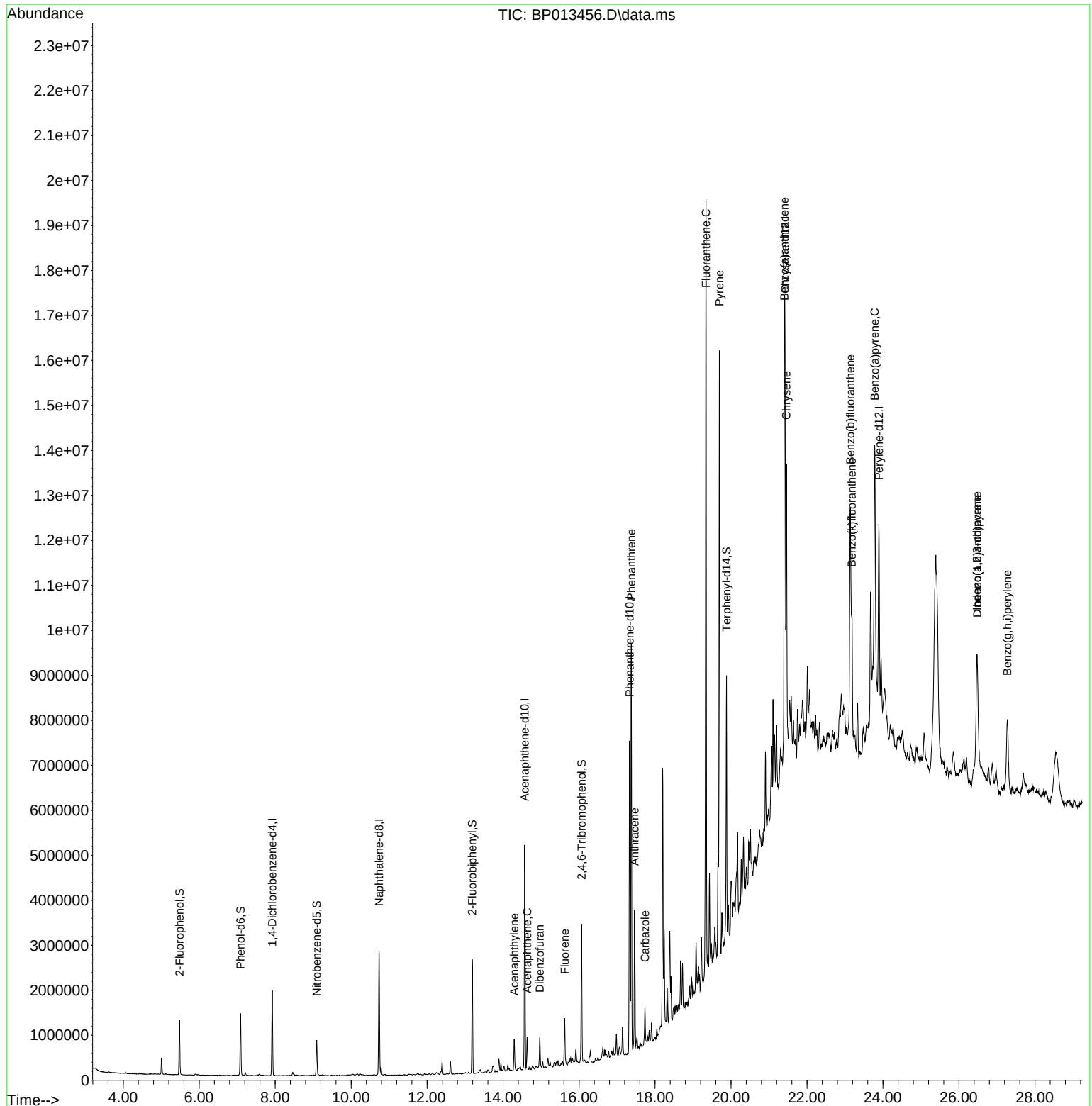
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP011123\
Data File : BP013456.D
Acq On : 11 Jan 2023 22:11
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ALS Vial : 19 Sample Multiplier: 1

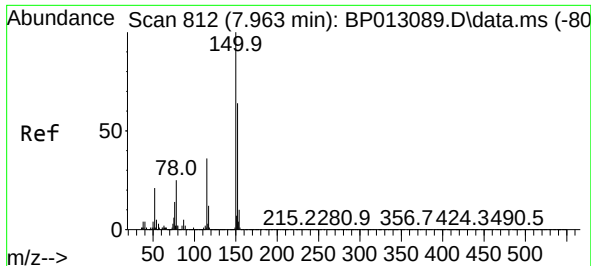
Instrument :
BNA_P
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OR-03-011023

Quant Time: Jan 12 02:21:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP121322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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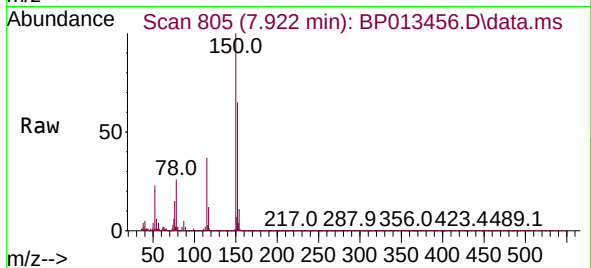
Reviewed By : Christian Giraldo 01/12/2023
Supervised By : Jagrut Upadhyay 01/12/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 80
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

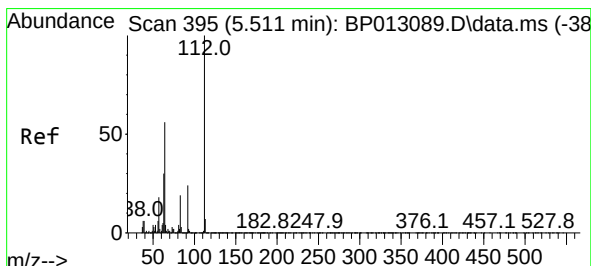
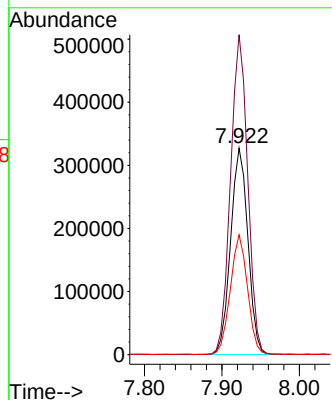
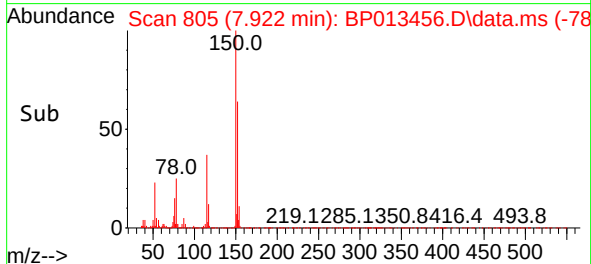
Instrument :
BNA_P
ClientSampleId :
OR-03-011023



Tgt Ion:152 Resp: 50985
Ion Ratio Lower Upper
152 100
150 155.0 125.3 187.9
115 58.0 45.6 68.4

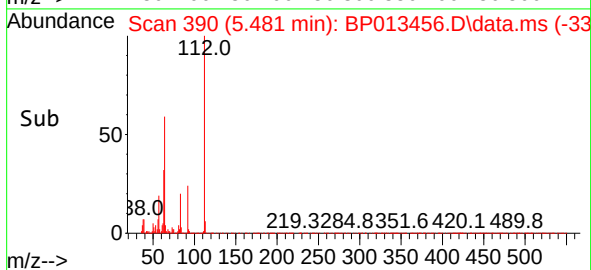
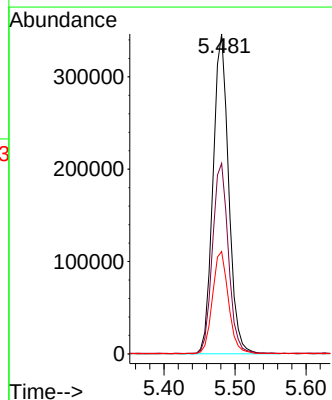
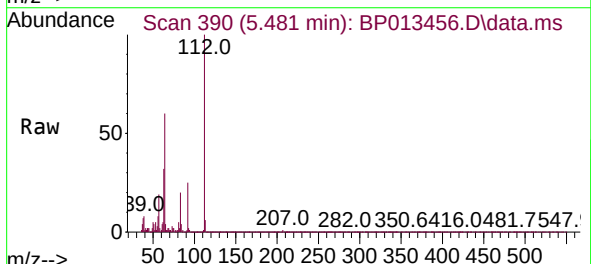
Manual Integrations
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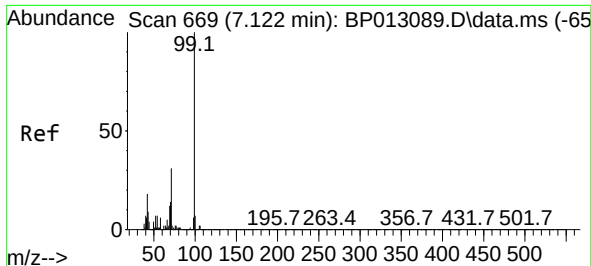
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023



#5
2-Fluorophenol
Concen: 19.003 ng
RT: 5.481 min Scan# 390
Delta R.T. 0.012 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

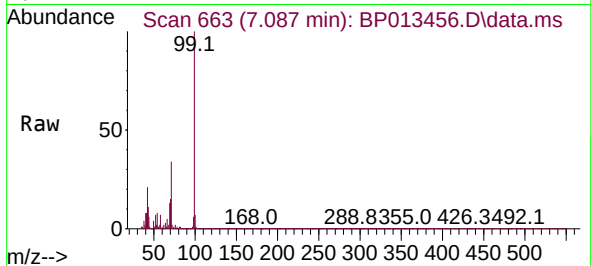
Tgt Ion:112 Resp: 530255
Ion Ratio Lower Upper
112 100
64 59.5 45.1 67.7
63 32.0 23.8 35.6





#7
Phenol-d6
Concen: 21.183 ng
RT: 7.087 min Scan# 60
Delta R.T. 0.012 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

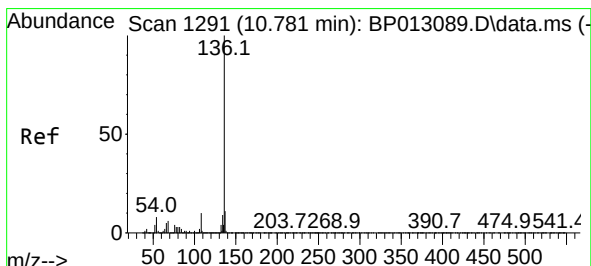
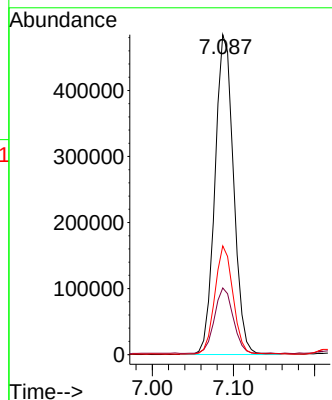
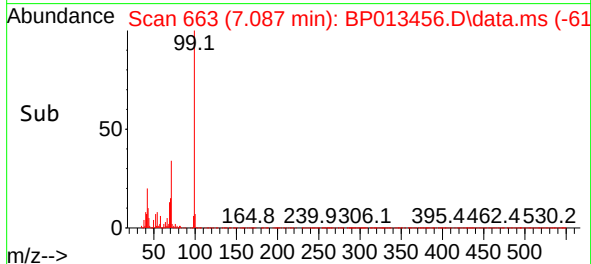
Instrument :
BNA_P
ClientSampleId :
OR-03-011023



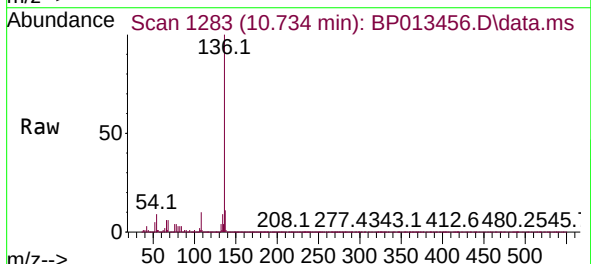
Tgt Ion: 99 Resp: 771932
Ion Ratio Lower Upper
99 100
42 20.8 14.2 21.4
71 34.0 24.7 37.1

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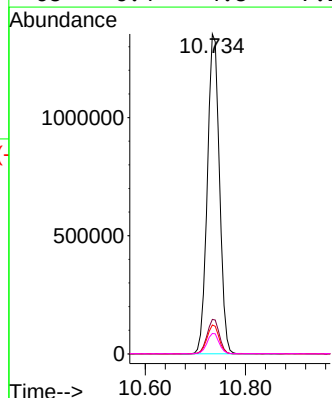
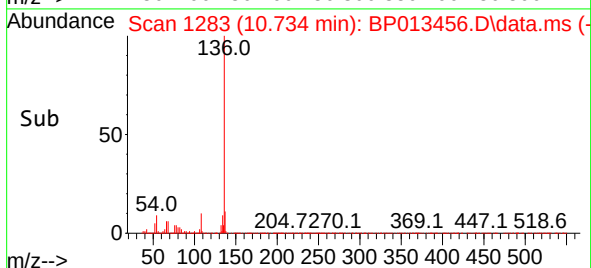
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023

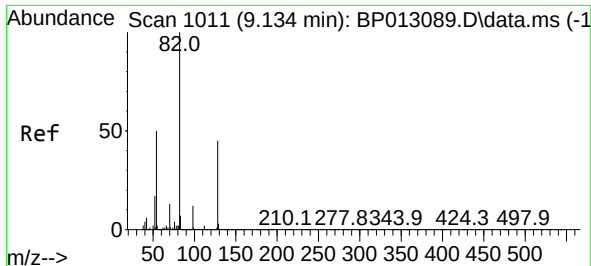


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.734 min Scan# 1283
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11



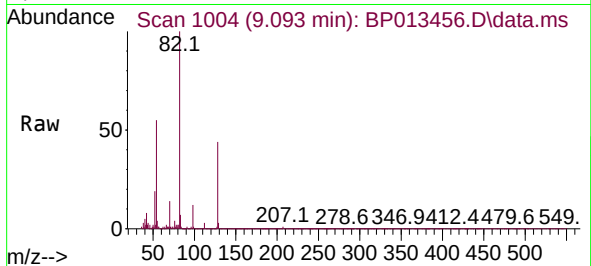
Tgt Ion:136 Resp: 2269481
Ion Ratio Lower Upper
136 100
137 10.8 8.7 13.1
54 9.0 6.2 9.4
68 6.4 4.8 7.2





#23
Nitrobenzene-d5
Concen: 10.421 ng
RT: 9.093 min Scan# 1011
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

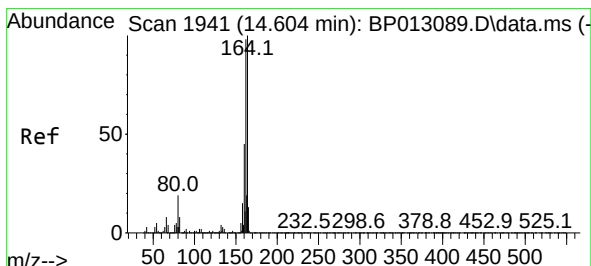
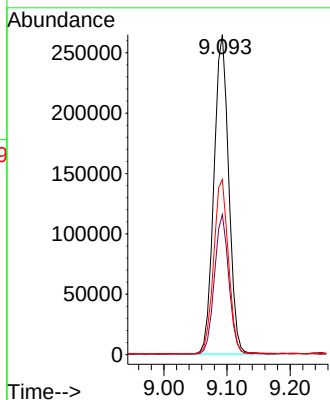
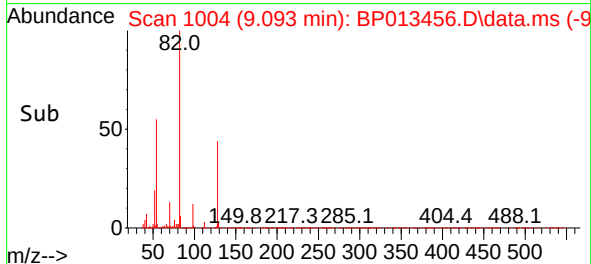
Instrument :
BNA_P
ClientSampleId :
OR-03-011023



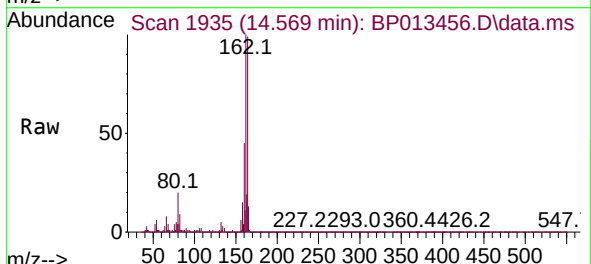
Tgt Ion: 82 Resp: 431408
Ion Ratio Lower Upper
82 100
128 43.8 35.9 53.9
54 54.7 40.4 60.6

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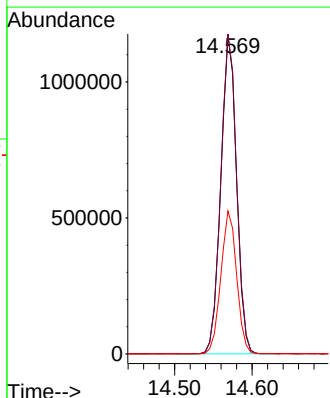
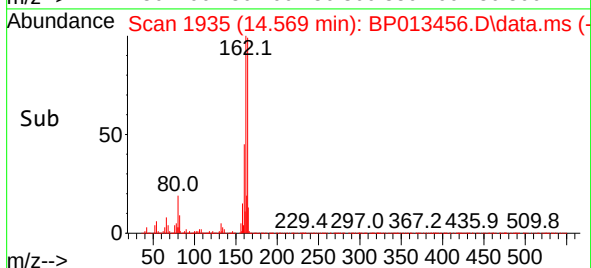
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023

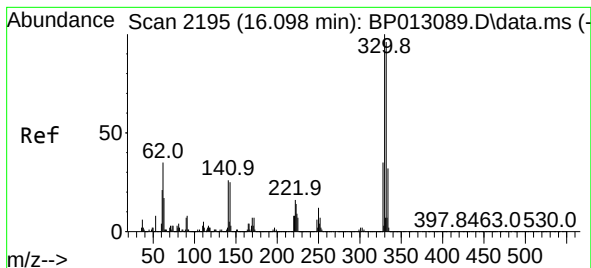


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.569 min Scan# 1935
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11



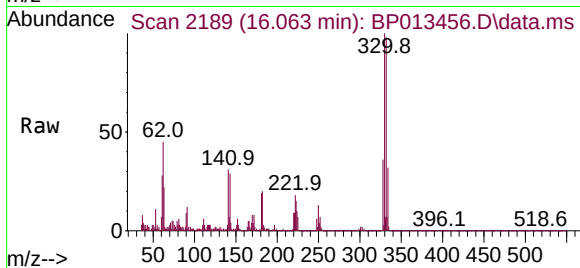
Tgt Ion:164 Resp: 1646279
Ion Ratio Lower Upper
164 100
162 100.6 78.8 118.2
160 44.9 36.0 54.0





#42
2,4,6-Tribromophenol
Concen: 27.804 ng
RT: 16.063 min Scan# 2195
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

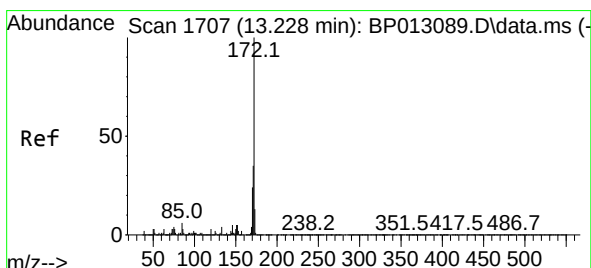
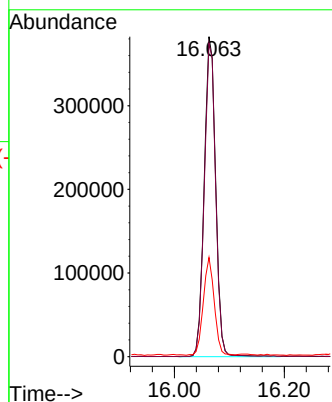
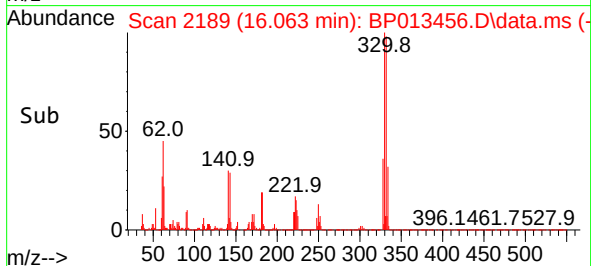
Instrument :
BNA_P
ClientSampleId :
OR-03-011023



Tgt Ion: 330 Resp: 551885
Ion Ratio Lower Upper
330 100
332 97.1 77.5 116.3
141 29.2 23.2 34.8

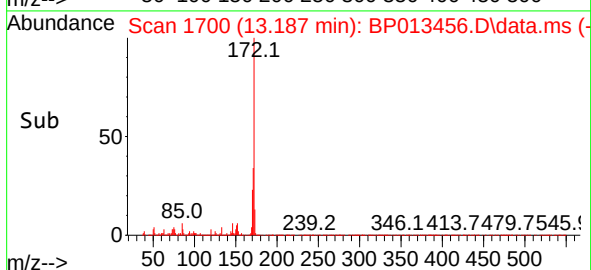
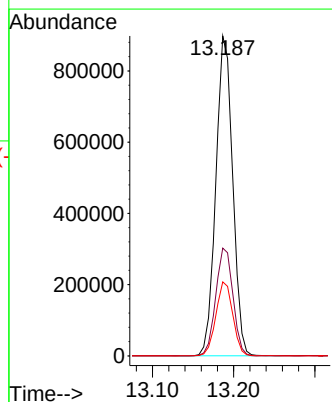
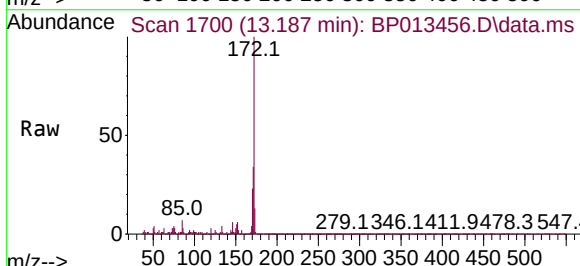
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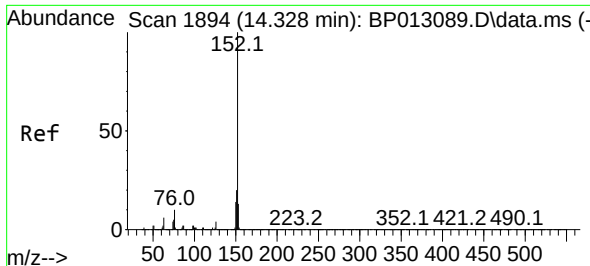
Reviewed By : Christian Giraldo 01/12/2023
Supervised By : Jagrut Upadhyay 01/12/2023



#45
2-Fluorobiphenyl
Concen: 10.650 ng
RT: 13.187 min Scan# 1700
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

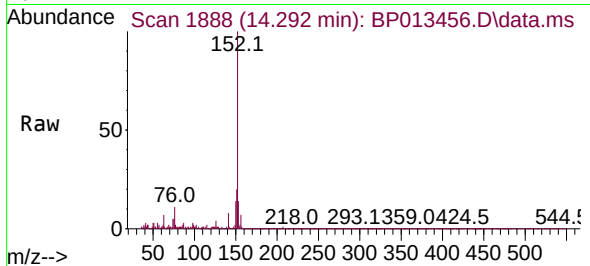
Tgt Ion: 172 Resp: 1291321
Ion Ratio Lower Upper
172 100
171 33.7 28.3 42.5
170 23.1 19.2 28.8





#49
Acenaphthylene
Concen: 3.272 ng
RT: 14.292 min Scan# 1894
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

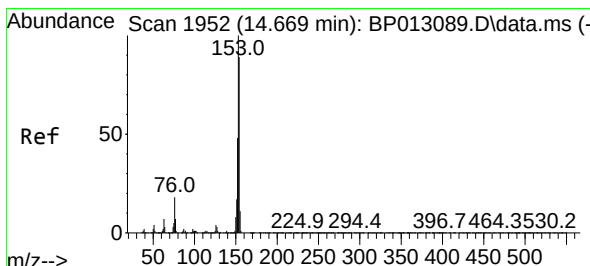
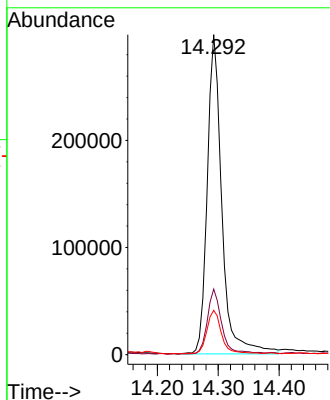
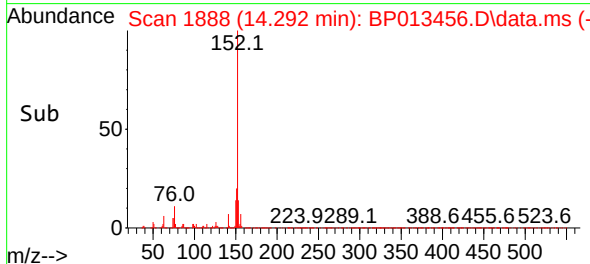
Instrument :
BNA_P
ClientSampleId :
OR-03-011023



Tgt Ion:152 Resp: 497892
Ion Ratio Lower Upper
152 100
151 20.5 16.0 24.0
153 13.8 10.7 16.1

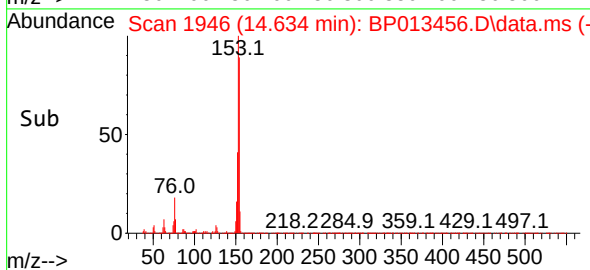
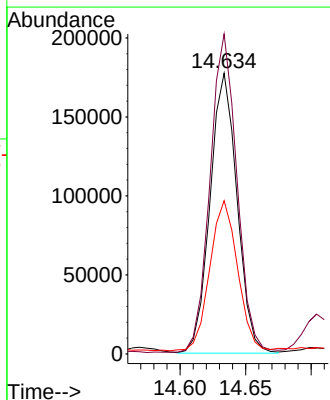
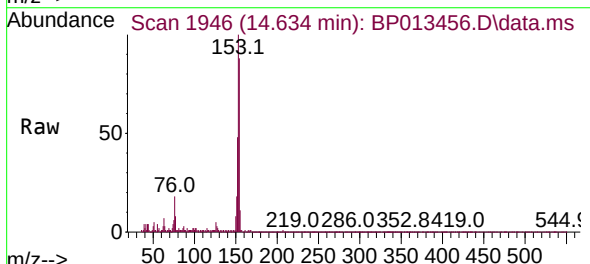
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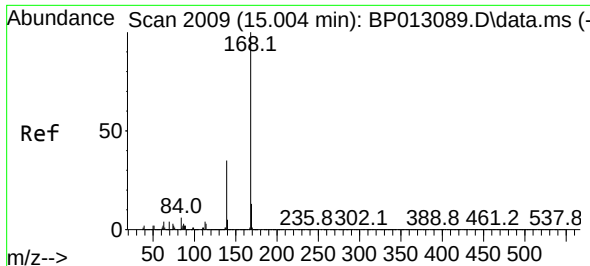
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023



#52
Acenaphthene
Concen: 2.687 ng
RT: 14.634 min Scan# 1946
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

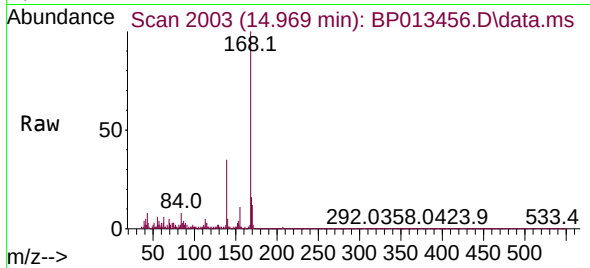
Tgt Ion:154 Resp: 254179
Ion Ratio Lower Upper
154 100
153 114.0 90.0 135.0
152 54.6 43.0 64.6





#55
Dibenzenofuran
Concen: 2.254 ng
RT: 14.969 min Scan# 2003
Delta R.T. 0.006 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

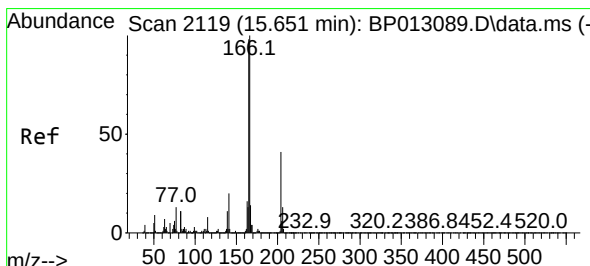
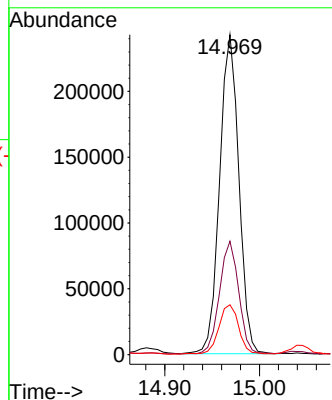
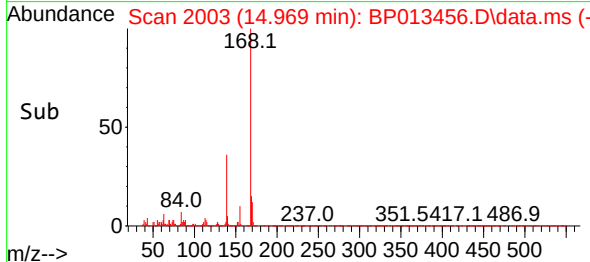
Instrument :
BNA_P
ClientSampleId :
OR-03-011023



Tgt Ion:168 Resp: 341314
Ion Ratio Lower Upper
168 100
139 35.4 27.8 41.8
169 15.6 10.7 16.1

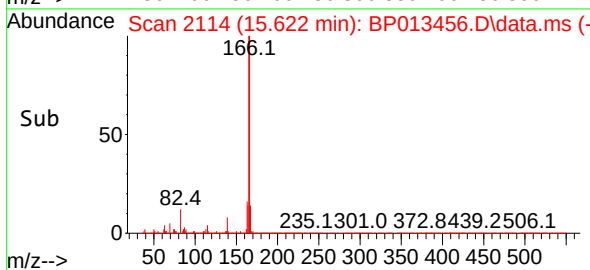
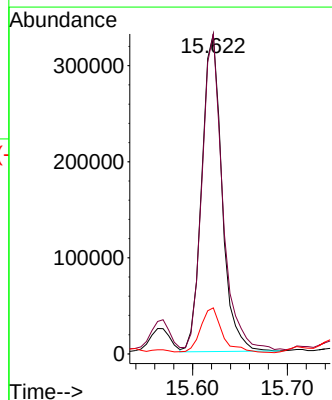
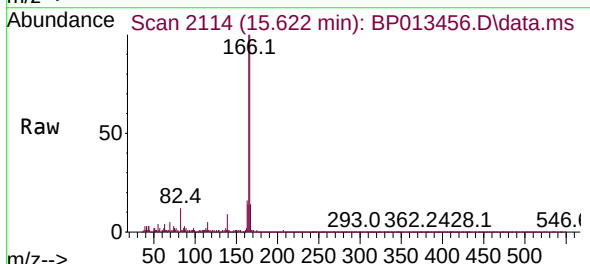
Manual Integrations
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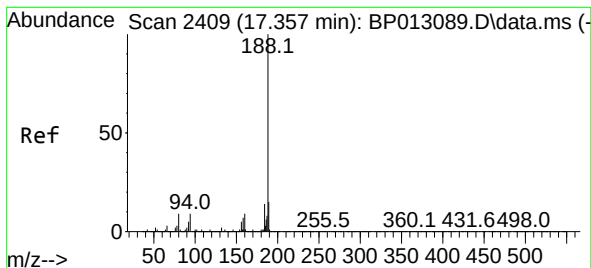
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023



#58
Fluorene
Concen: 4.168 ng
RT: 15.622 min Scan# 2114
Delta R.T. 0.012 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

Tgt Ion:166 Resp: 488490
Ion Ratio Lower Upper
166 100
165 100.1 78.2 117.4
167 14.4 11.2 16.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.328 min Scan# 2404

Delta R.T. 0.012 min

Lab File: BP013456.D

Acq: 11 Jan 2023 22:11

Instrument :

BNA_P

ClientSampleId :

OR-03-011023

Tgt Ion:188 Resp: 4201749

Ion Ratio Lower Upper

188 100

94 8.9 7.0 10.6

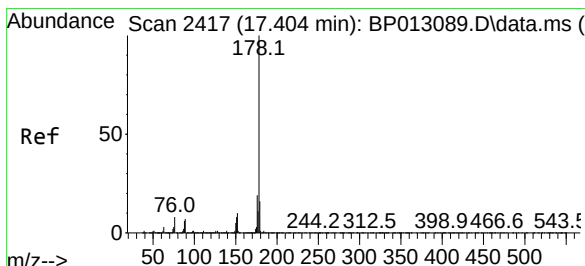
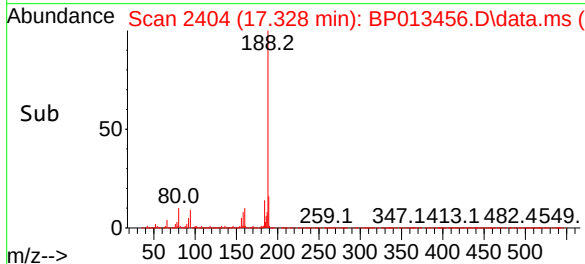
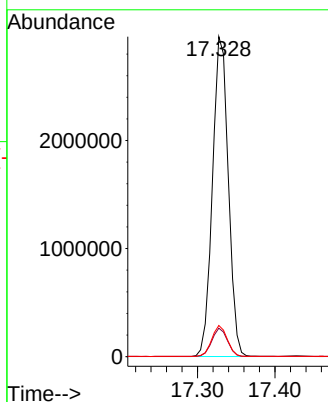
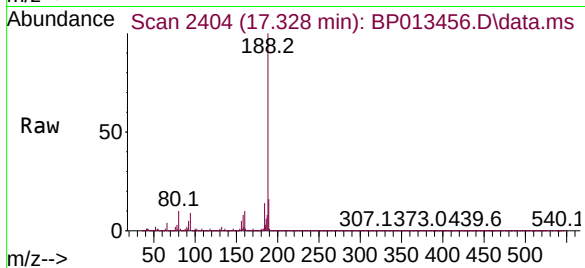
80 9.8 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023



#71

Phenanthrene

Concen: 23.083 ng

RT: 17.375 min Scan# 2412

Delta R.T. 0.012 min

Lab File: BP013456.D

Acq: 11 Jan 2023 22:11

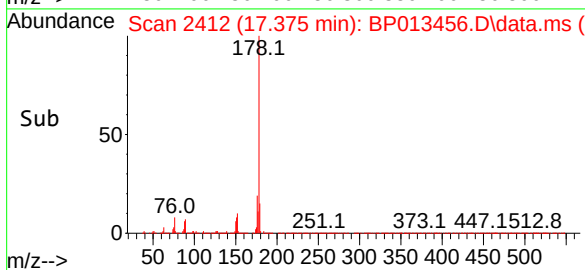
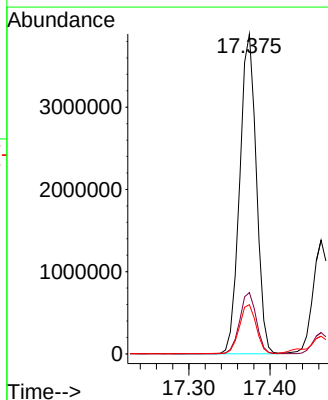
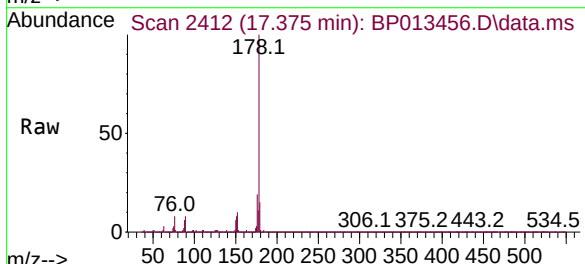
Tgt Ion:178 Resp: 5518973

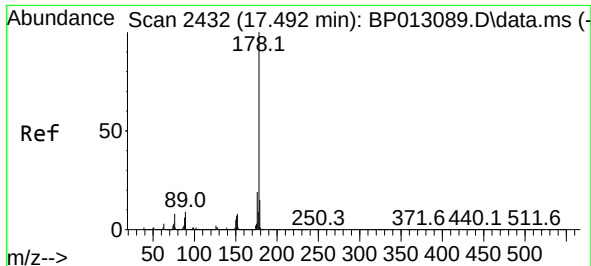
Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

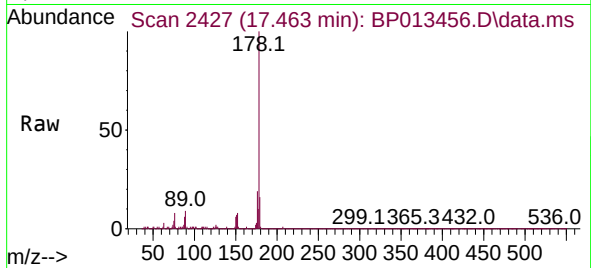
179 15.4 12.6 18.8





#72
 Anthracene
 Concen: 8.504 ng
 RT: 17.463 min Scan# 2432
 Delta R.T. 0.012 min
 Lab File: BP013456.D
 Acq: 11 Jan 2023 22:11

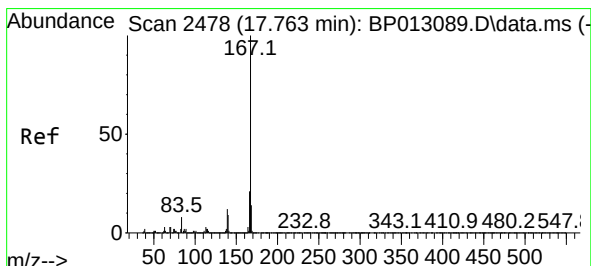
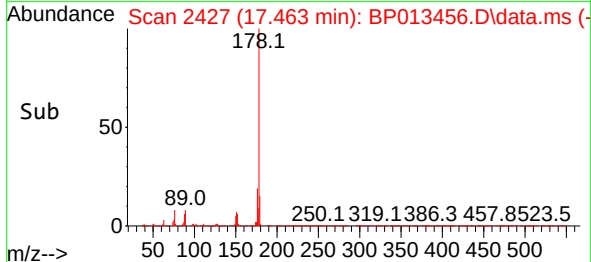
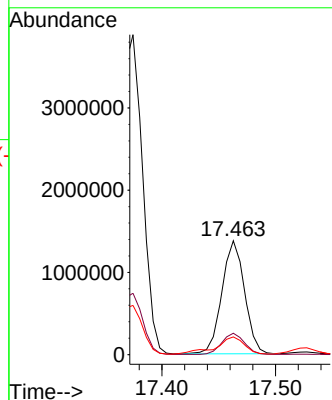
Instrument :
 BNA_P
 ClientSampleId :
 OR-03-011023



Tgt Ion:178 Resp: 1908819
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.8 22.2
 179 15.5 12.4 18.6

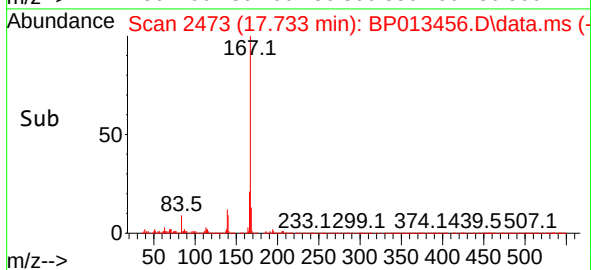
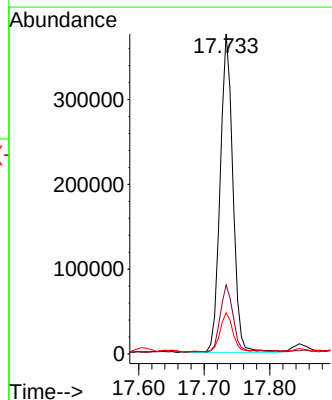
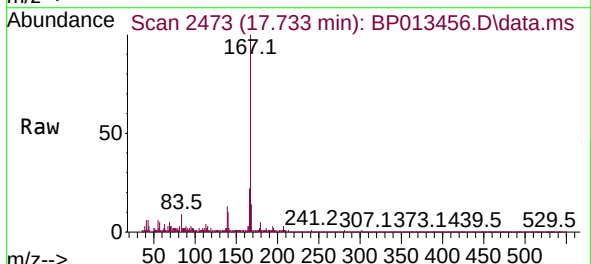
Manual Integrations
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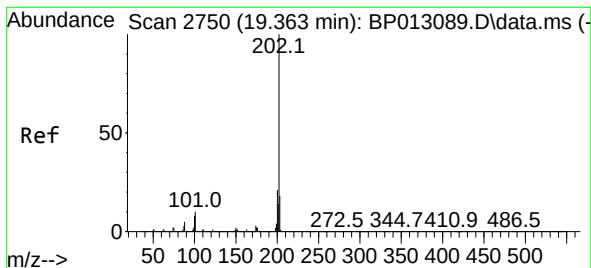
Reviewed By :Christian Giraldo 01/12/2023
 Supervised By :Jagrut Upadhyay 01/12/2023



#73
 Carbazole
 Concen: 2.583 ng
 RT: 17.733 min Scan# 2473
 Delta R.T. 0.006 min
 Lab File: BP013456.D
 Acq: 11 Jan 2023 22:11

Tgt Ion:167 Resp: 508355
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.1 25.7
 139 12.8 9.7 14.5





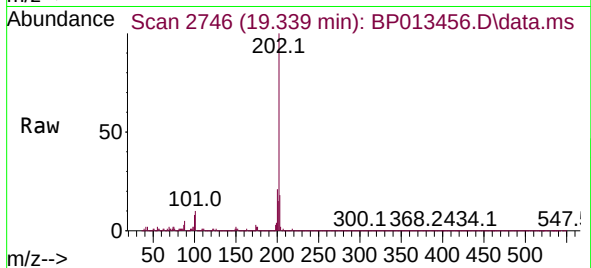
#75
Fluoranthene
Concen: 36.511 ng
RT: 19.339 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

Instrument :

BNA_P

ClientSampleId :

OR-03-011023

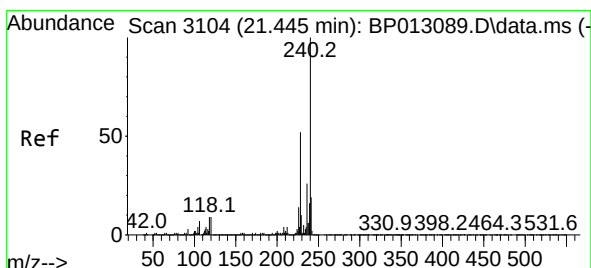
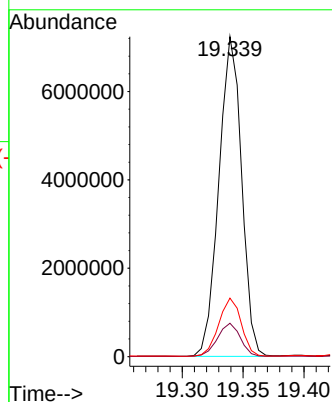
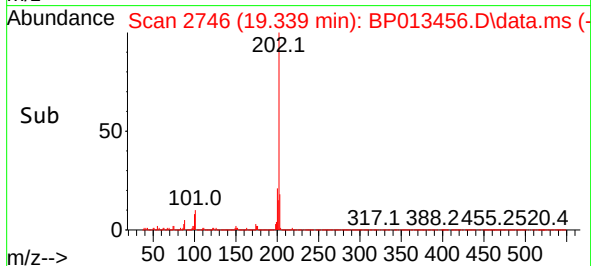


Tgt Ion:202 Resp: 9395822
Ion Ratio Lower Upper
202 100
101 10.4 0.0 30.0
203 18.3 0.0 37.6

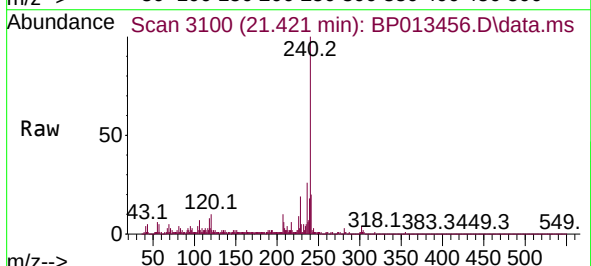
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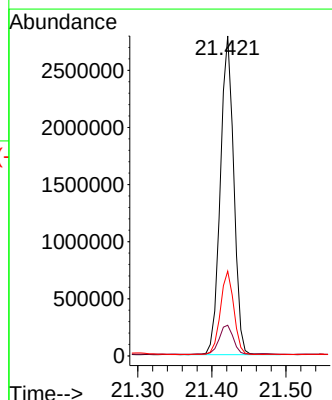
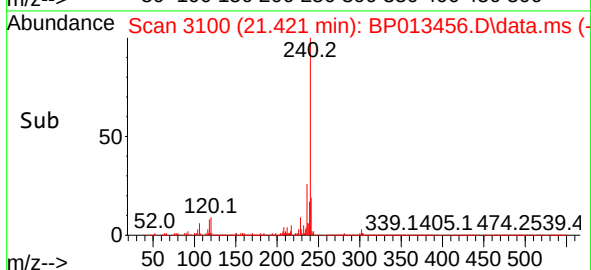
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023

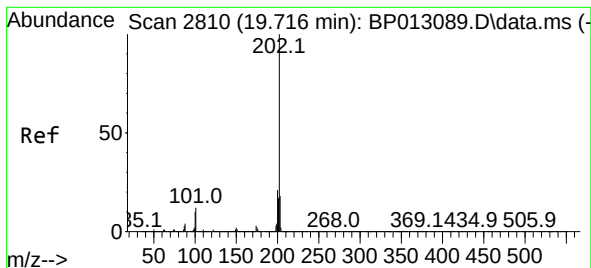


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.421 min Scan# 3100
Delta R.T. 0.012 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11



Tgt Ion:240 Resp: 3512816
Ion Ratio Lower Upper
240 100
120 9.6 7.4 11.2
236 26.5 21.0 31.4





#78

Pyrene

Concen: 32.482 ng

RT: 19.692 min Scan# 2810

Delta R.T. 0.012 min

Lab File: BP013456.D

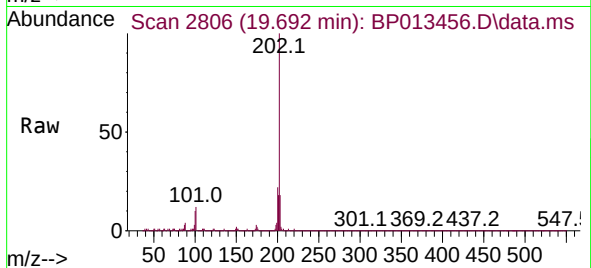
Acq: 11 Jan 2023 22:11

Instrument :

BNA_P

ClientSampleId :

OR-03-011023



Tgt Ion:202 Resp: 8198754

Ion Ratio Lower Upper

202 100

200 21.6 17.0 25.4

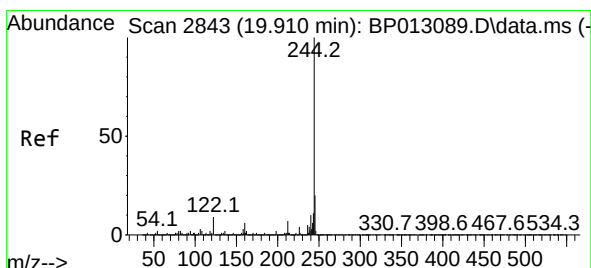
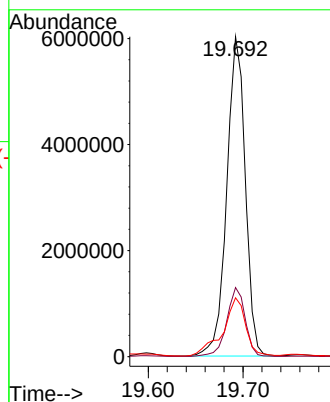
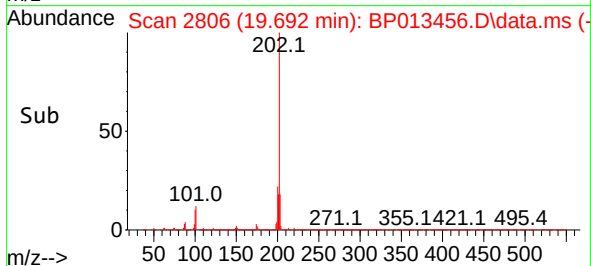
203 18.4 14.2 21.2

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Supervised By :Jagrut Upadhyay 01/12/2023



#79

Terphenyl-d14

Concen: 15.274 ng

RT: 19.880 min Scan# 2838

Delta R.T. 0.006 min

Lab File: BP013456.D

Acq: 11 Jan 2023 22:11

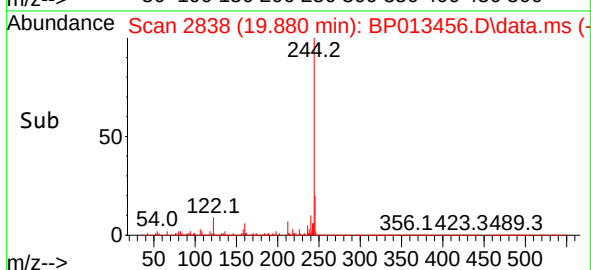
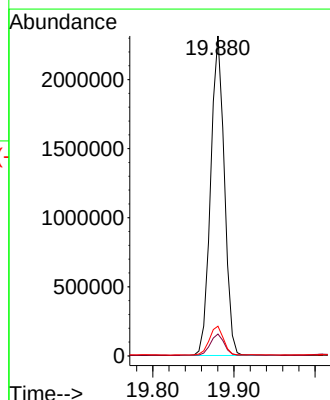
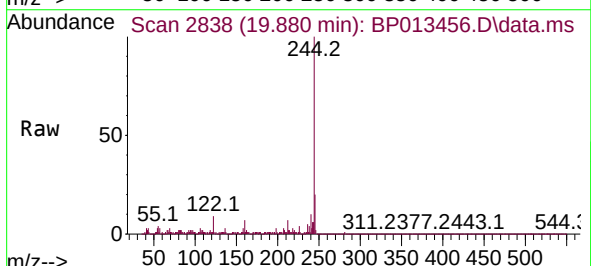
Tgt Ion:244 Resp: 2719599

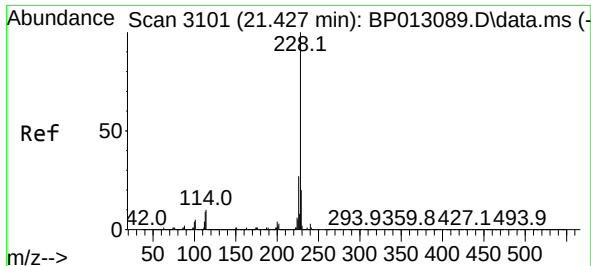
Ion Ratio Lower Upper

244 100

212 6.8 5.5 8.3

122 9.3 7.2 10.8





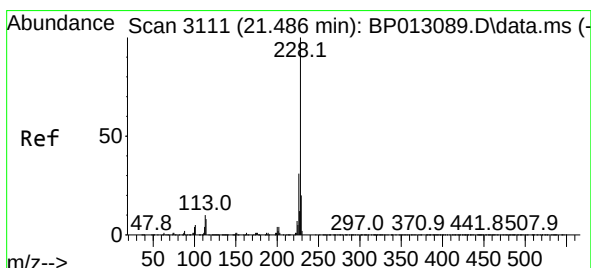
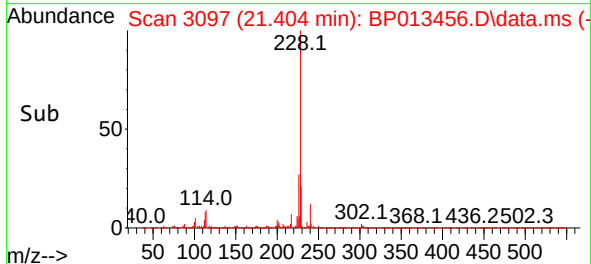
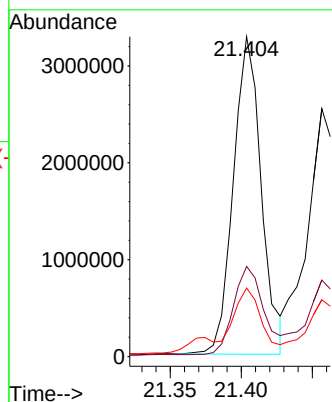
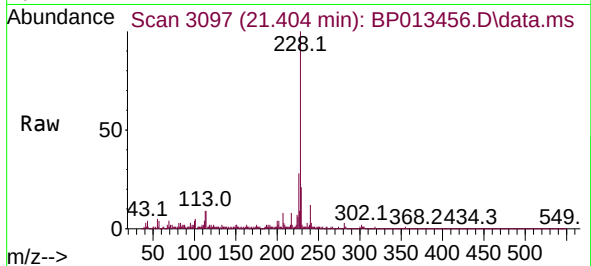
#81
Benzo(a)anthracene
Concen: 18.642 ng
RT: 21.404 min Scan# 30
Delta R.T. 0.012 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

Instrument :
BNA_P
ClientSampleId :
OR-03-011023

Tgt Ion:228 Resp: 447608
Ion Ratio Lower Upper
228 100
226 28.2 22.0 33.0
229 21.4 16.2 24.4

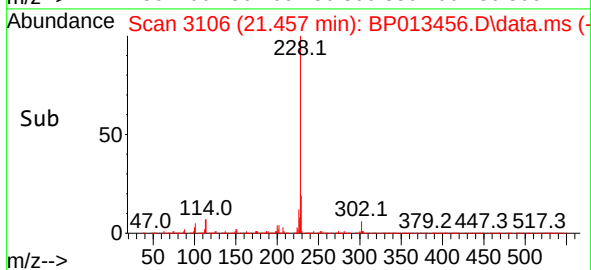
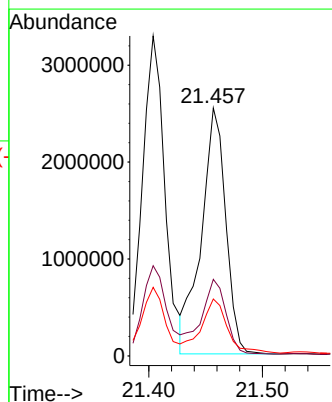
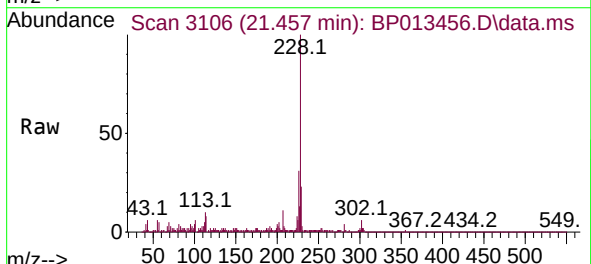
Manual Integrations
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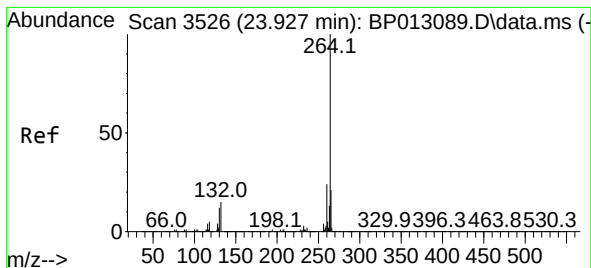
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023



#83
Chrysene
Concen: 16.256 ng
RT: 21.457 min Scan# 3106
Delta R.T. 0.012 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

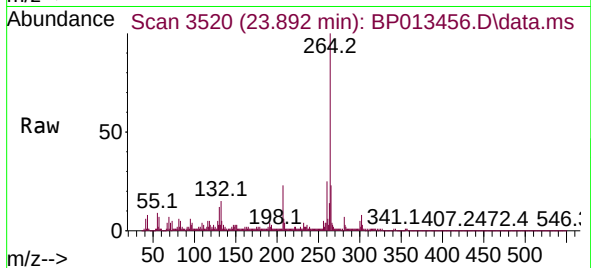
Tgt Ion:228 Resp: 3807239
Ion Ratio Lower Upper
228 100
226 30.9 24.3 36.5
229 23.0 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.892 min Scan# 31
Delta R.T. 0.024 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

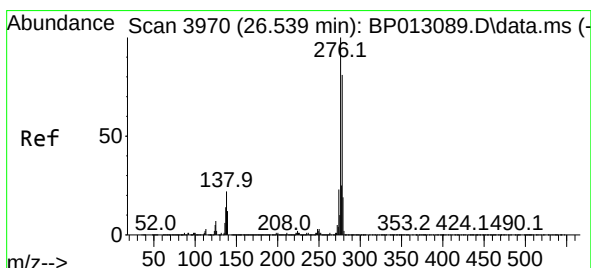
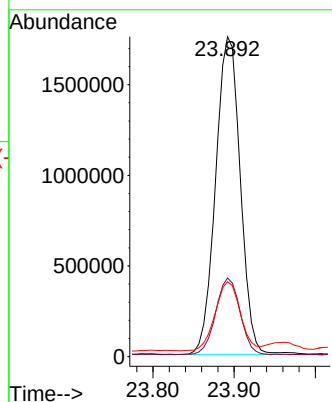
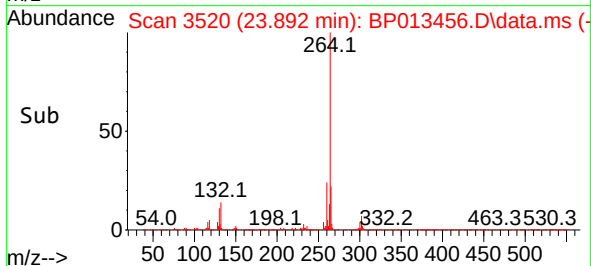
Instrument :
BNA_P
ClientSampleId :
OR-03-011023



Tgt Ion:264 Resp: 3696446
Ion Ratio Lower Upper
264 100
260 24.6 19.1 28.7
265 23.4 17.7 26.5

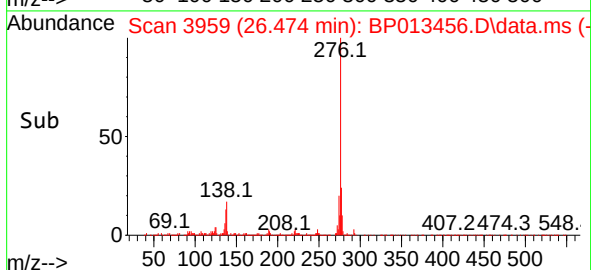
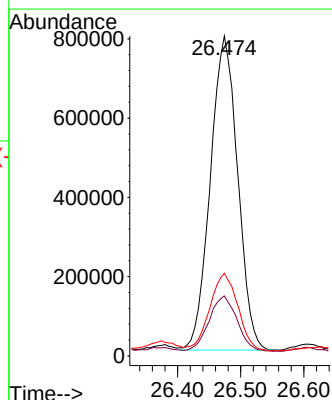
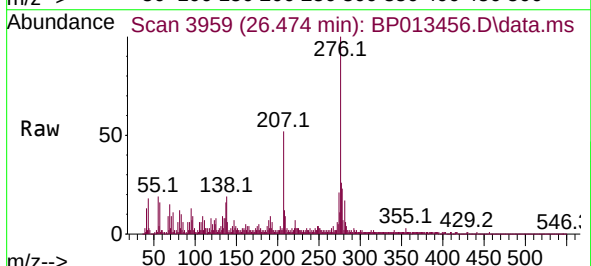
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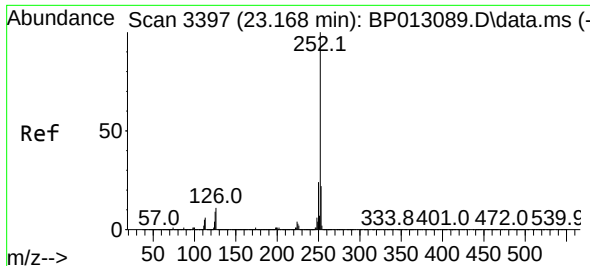
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 7.888 ng
RT: 26.474 min Scan# 3959
Delta R.T. 0.029 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

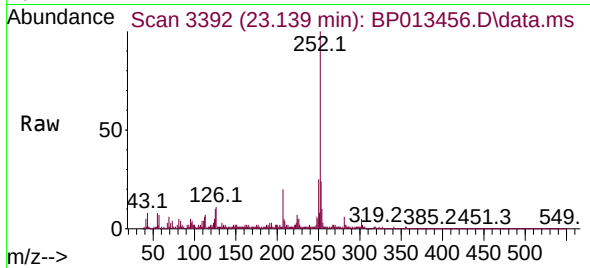
Tgt Ion:276 Resp: 2382426
Ion Ratio Lower Upper
276 100
138 18.1 17.3 25.9
277 25.3 20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 20.834 ng
RT: 23.139 min Scan# 3397
Delta R.T. 0.024 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11

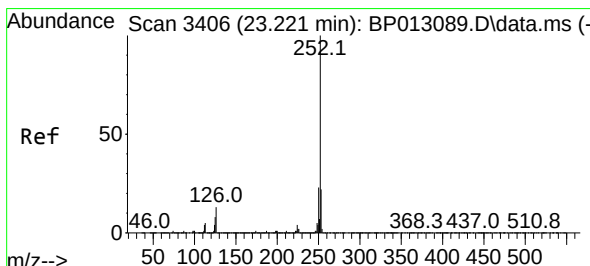
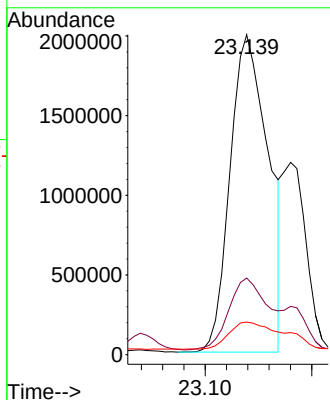
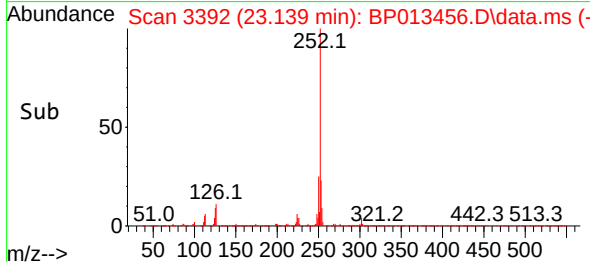
Instrument :
BNA_P
ClientSampleId :
OR-03-011023



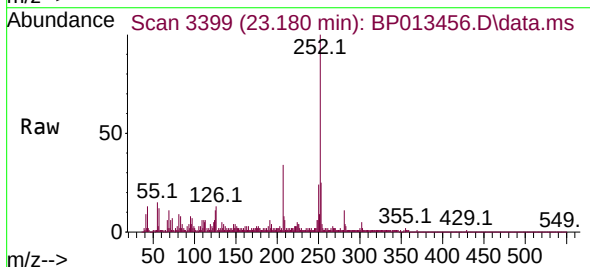
Tgt Ion:252 Resp: 4958383
Ion Ratio Lower Upper
252 100
253 23.9 17.8 26.6
125 10.2 7.0 10.4

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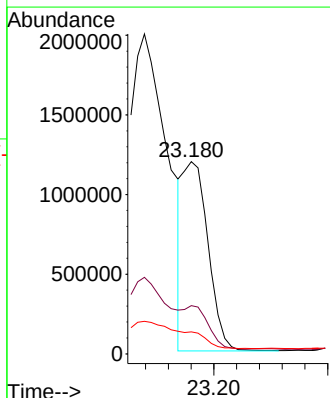
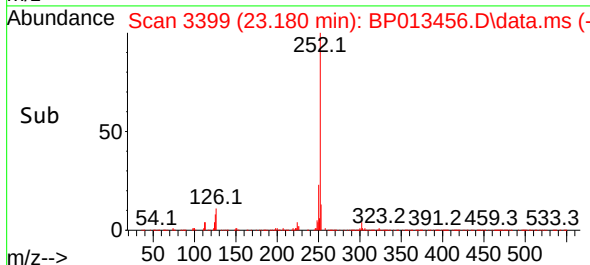
Reviewed By :Christian Giraldo 01/12/2023
Supervised By :Jagrut Upadhyay 01/12/2023

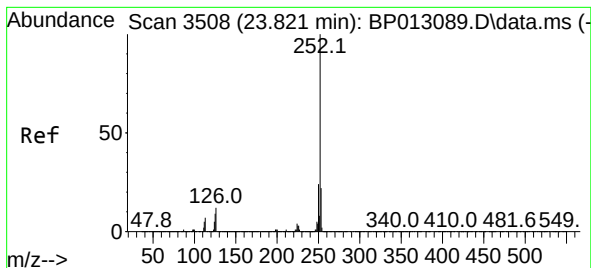


#89
Benzo(k)fluoranthene
Concen: 7.613 ng m
RT: 23.180 min Scan# 3399
Delta R.T. 0.018 min
Lab File: BP013456.D
Acq: 11 Jan 2023 22:11



Tgt Ion:252 Resp: 1832876
Ion Ratio Lower Upper
252 100
253 25.1 17.6 26.4
125 11.5 6.7 10.1#





#90

Benzo(a)pyrene

Concen: 17.839 ng

RT: 23.780 min Scan# 3501

Delta R.T. 0.024 min

Lab File: BP013456.D

Acq: 11 Jan 2023 22:11

Instrument :

BNA_P

ClientSampleId :

OR-03-011023

Tgt Ion:252 Resp: 3562973

Ion Ratio Lower Upper

252 100

253 24.0 17.5 26.3

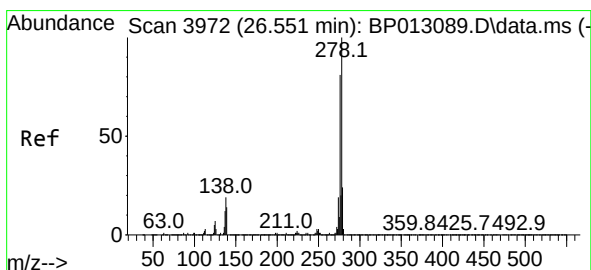
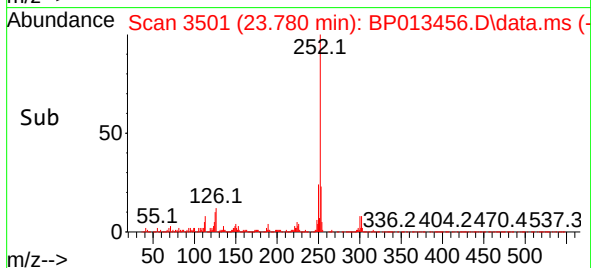
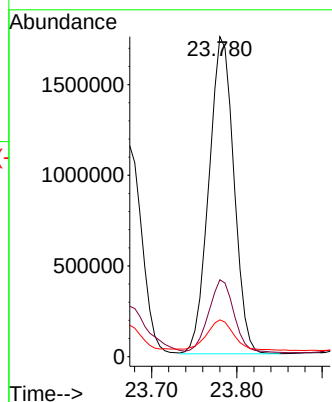
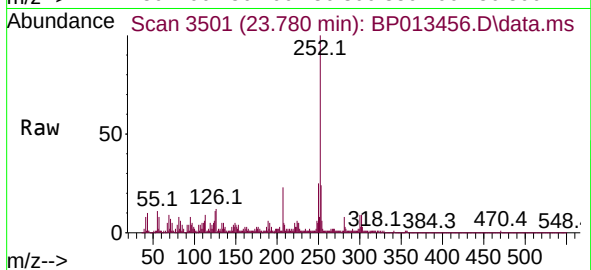
125 11.5 7.4 11.2

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Supervised By :Jagrut Upadhyay 01/12/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.650 ng

RT: 26.480 min Scan# 3960

Delta R.T. 0.024 min

Lab File: BP013456.D

Acq: 11 Jan 2023 22:11

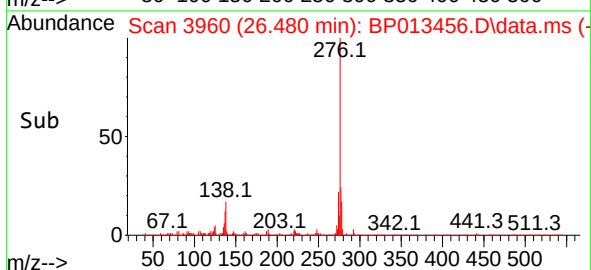
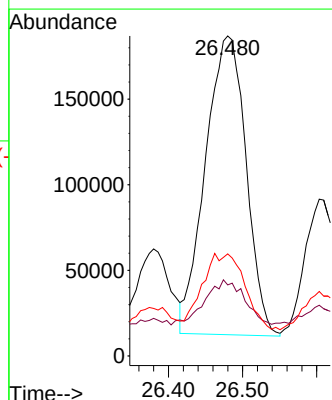
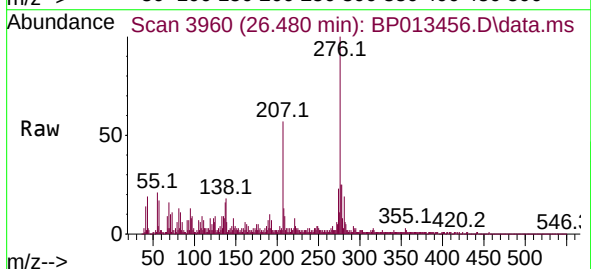
Tgt Ion:278 Resp: 665066

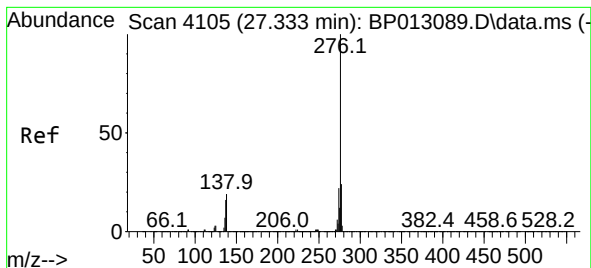
Ion Ratio Lower Upper

278 100

139 22.2 11.0 16.6#

279 31.9 19.1 28.7#





#92

Benzo(g,h,i)perylene

Concen: 8.833 ng

RT: 27.274 min Scan# 4095

Delta R.T. 0.041 min

Lab File: BP013456.D

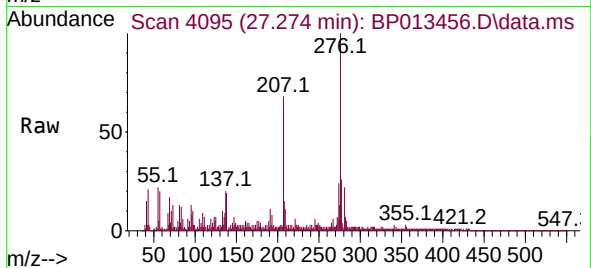
Acq: 11 Jan 2023 22:11

Instrument :

BNA_P

ClientSampleId :

OR-03-011023



Tgt Ion:276 Resp: 2196659

Ion Ratio Lower Upper

276 100

277 25.9 18.9 28.3

138 19.0 15.0 22.6

Manual Integrations

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Reviewed By :Christian Giraldo 01/12/2023

Supervised By :Jagrut Upadhyay 01/12/2023

