

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030425\
 Data File : BF141831.D
 Acq On : 04 Mar 2025 17:16
 Operator : RC/JU
 Sample : Q1480-01 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-1

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/05/2025
 Supervised By :Jagrut Upadhyay 03/05/2025

Quant Time: Mar 05 00:17:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	244663	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	884460	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	402639	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	602200	20.000	ng	0.00
76) Chrysene-d12	14.051	240	528870	20.000	ng	0.00
86) Perylene-d12	15.527	264	564055	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	648612	42.337	ng	0.00
7) Phenol-d6	6.498	99	796556	39.946	ng	-0.01
23) Nitrobenzene-d5	7.439	82	477947	34.541	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	137061	36.259	ng	-0.01
45) 2-Fluorobiphenyl	9.233	172	811847	32.331	ng	-0.01
79) Terphenyl-d14	12.986	244	737758	22.569	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.186	128	413966	9.107	ng	99
37) 2-Methylnaphthalene	8.875	142	184168	6.177	ng	99
38) 1-Methylnaphthalene	8.975	142	151318	5.289	ng	100
49) Acenaphthylene	9.780	152	572549	16.882	ng	98
52) Acenaphthene	9.951	154	389857	17.036	ng	98
55) Dibenzofuran	10.122	168	496265	14.900	ng	96
58) Fluorene	10.469	166	805813	32.298	ng	99
71) Phenanthrene	11.433	178	2987922	92.759	ng	99
72) Anthracene	11.480	178	1471378	45.577	ng	99
73) Carbazole	11.627	167	191504	6.717	ng	99
75) Fluoranthene	12.627	202	5699273	172.673	ng	97
78) Pyrene	12.857	202	4822393	105.300	ng	97
81) Benzo(a)anthracene	14.039	228	3613028m	103.428	ng	
83) Chrysene	14.074	228	2832888	87.973	ng	96
84) Bis(2-ethylhexyl)phtha...	14.027	149	47574	2.296	ng	94
87) Indeno(1,2,3-cd)pyrene	17.015	276	1291972	35.971	ng	94
88) Benzo(b)fluoranthene	15.098	252	3930988m	102.311	ng	
89) Benzo(k)fluoranthene	15.115	252	1163566m	35.630	ng	
90) Benzo(a)pyrene	15.468	252	2674130	86.784	ng	98
91) Dibenzo(a,h)anthracene	17.021	278	377016	12.860	ng	96
92) Benzo(g,h,i)perylene	17.468	276	1126102	37.493	ng	99

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

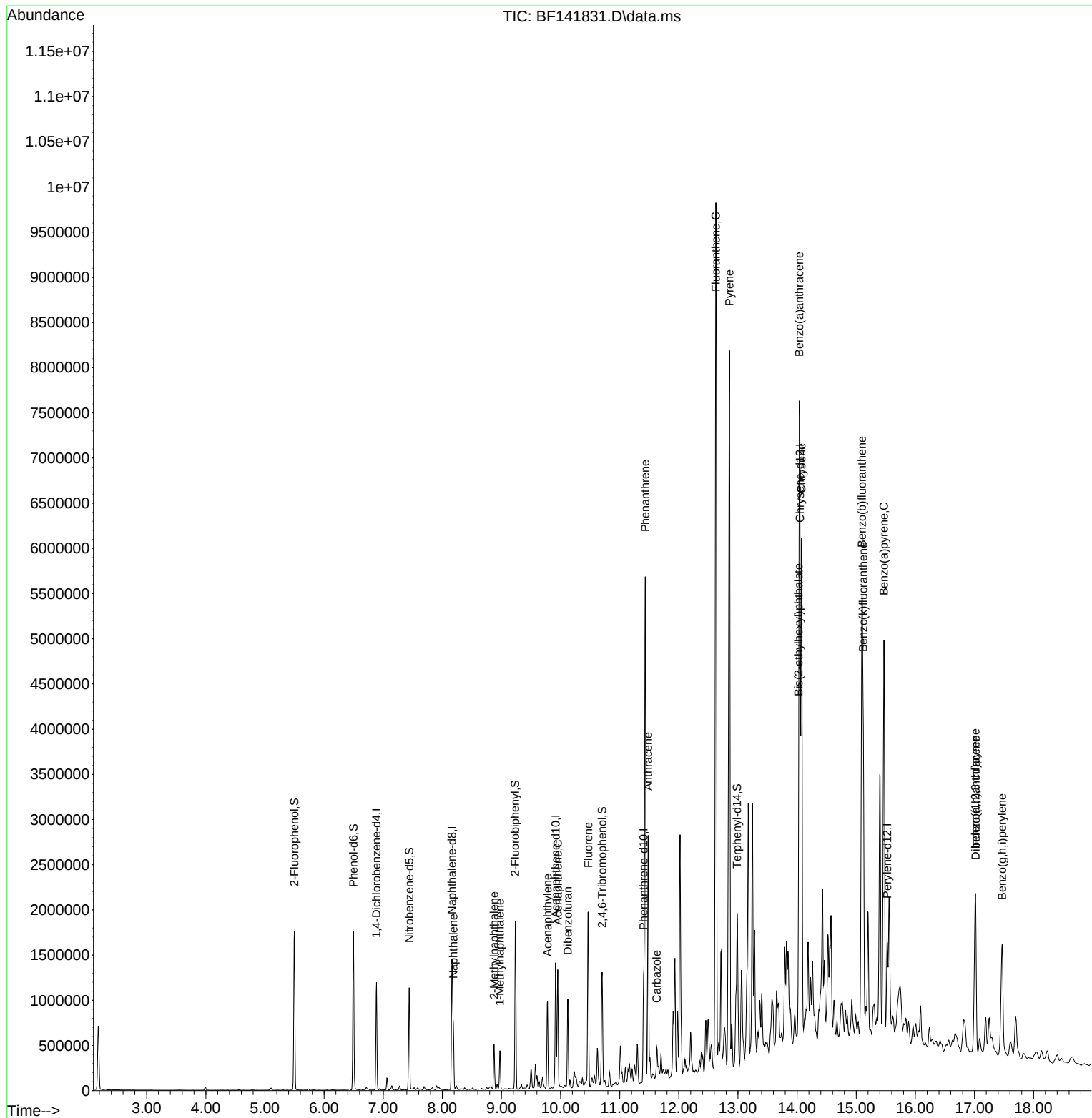
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030425\
Data File : BF141831.D
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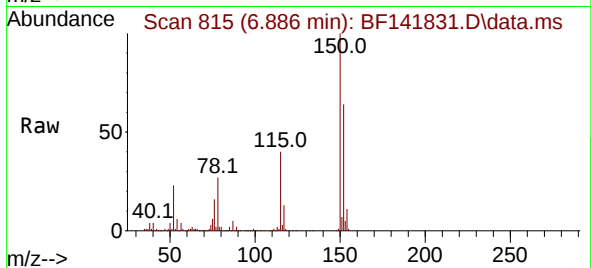
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 816
Delta R.T. -0.007 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

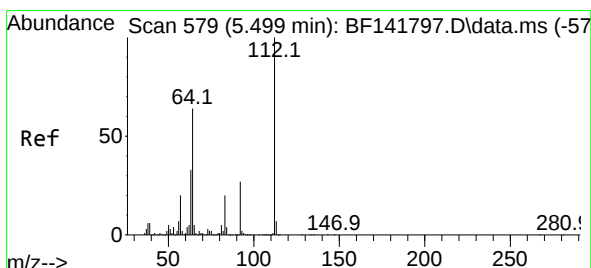
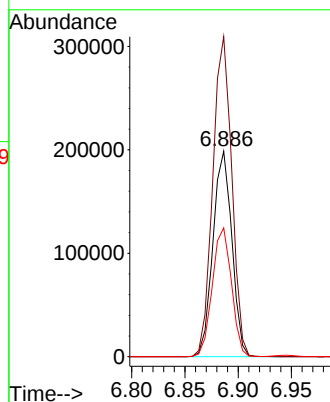
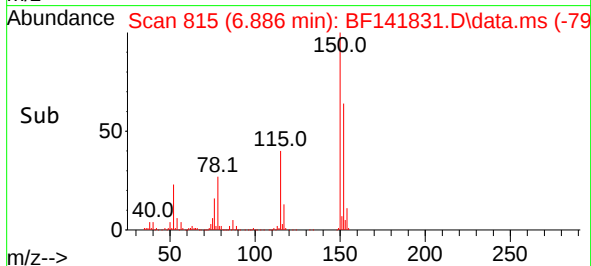
Instrument :
BNA_F
ClientSampleId :
TP-1



Tgt Ion:152 Resp: 244661
Ion Ratio Lower Upper
152 100
150 155.8 127.5 191.3
115 62.7 51.4 77.2

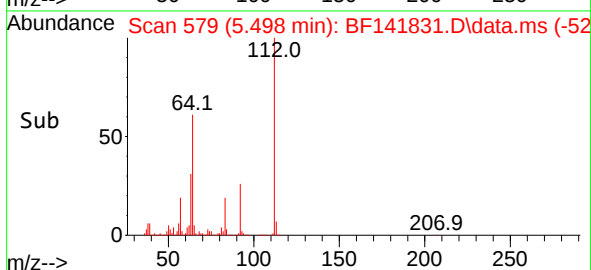
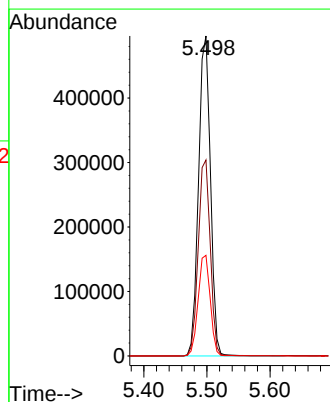
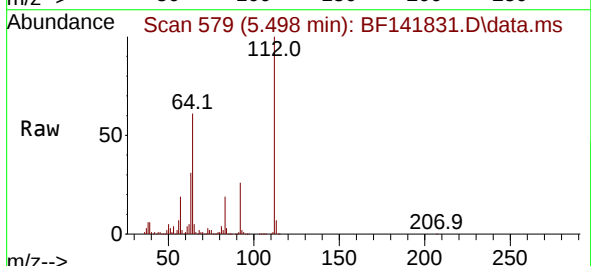
Manual Integrations
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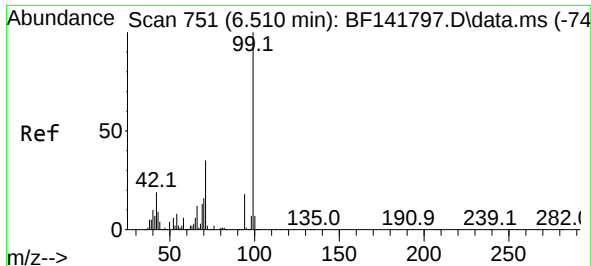
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025



#5
2-Fluorophenol
Concen: 42.337 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

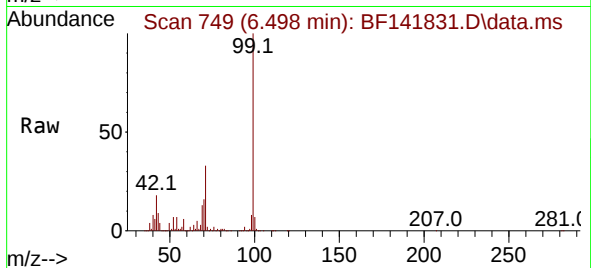
Tgt Ion:112 Resp: 648612
Ion Ratio Lower Upper
112 100
64 61.3 51.3 76.9
63 31.5 26.2 39.4





#7
Phenol-d6
Concen: 39.946 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

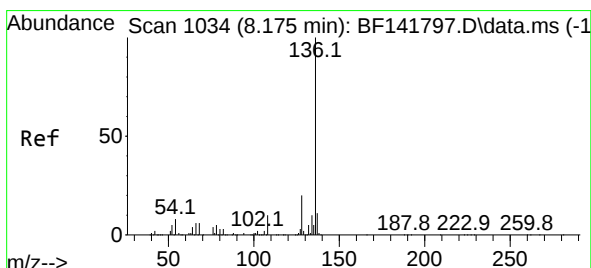
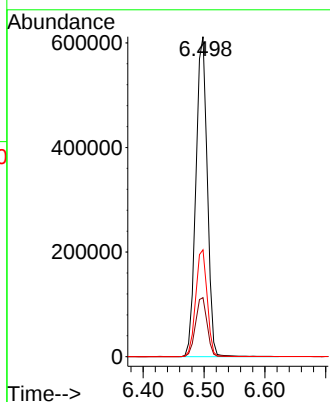
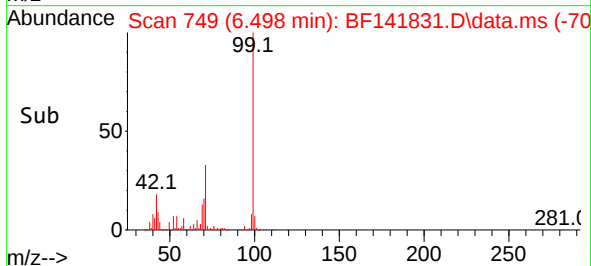
Instrument :
BNA_F
ClientSampleId :
TP-1



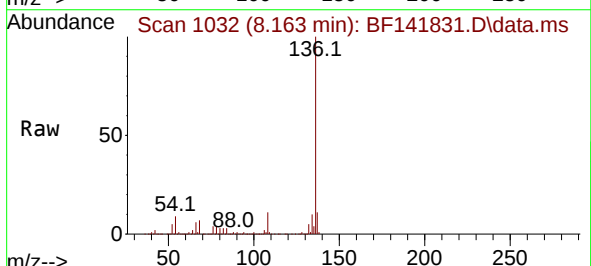
Tgt Ion: 99 Resp: 796550
Ion Ratio Lower Upper
99 100
42 18.4 15.2 22.8
71 33.4 28.2 42.2

Manual Integrations
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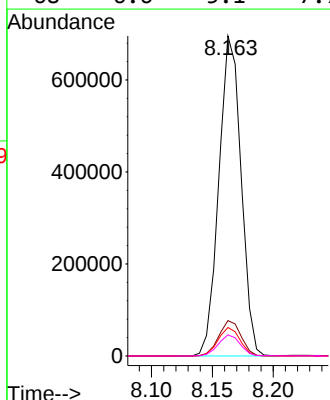
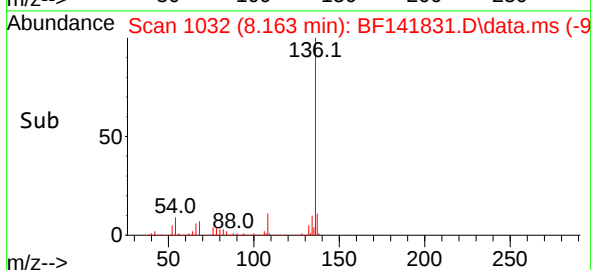
Reviewed By :Anahy Claudio 03/05/2025
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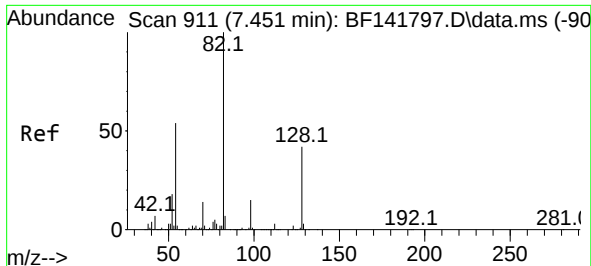


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16



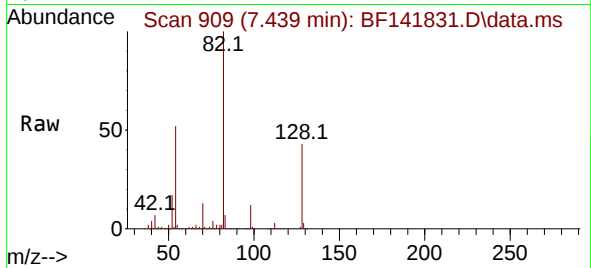
Tgt Ion:136 Resp: 884460
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.9 6.9 10.3
68 6.6 5.1 7.7





#23
Nitrobenzene-d5
Concen: 34.541 ng
RT: 7.439 min Scan# 909
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

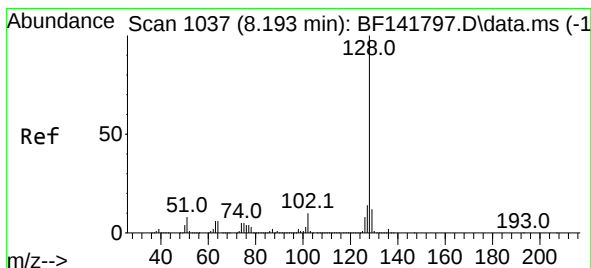
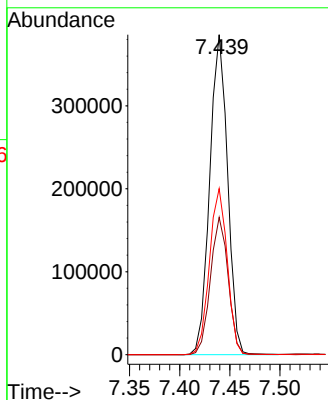
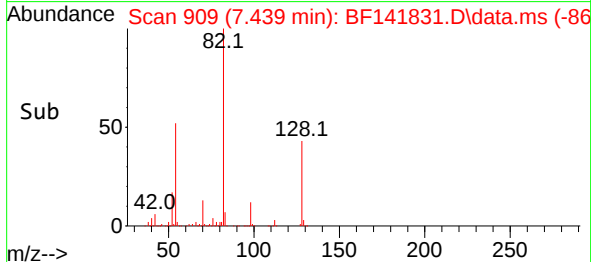
Instrument :
BNA_F
ClientSampleId :
TP-1



Tgt Ion: 82 Resp: 47794
Ion Ratio Lower Upper
82 100
128 42.9 33.5 50.3
54 51.9 42.7 64.1

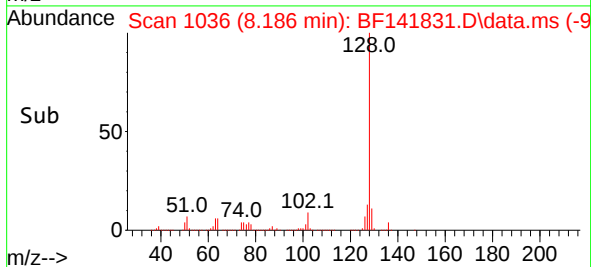
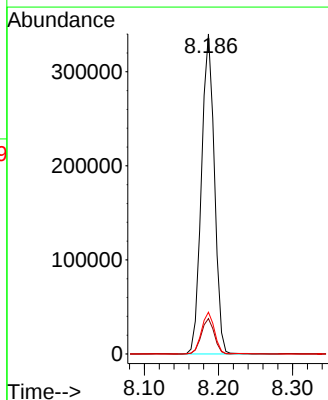
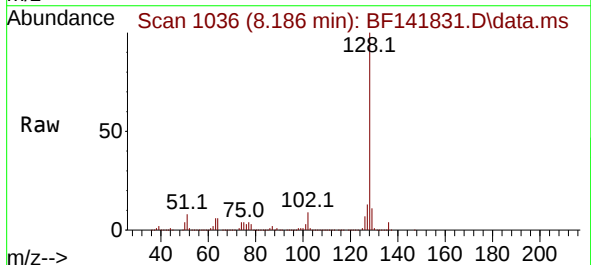
Manual Integrations
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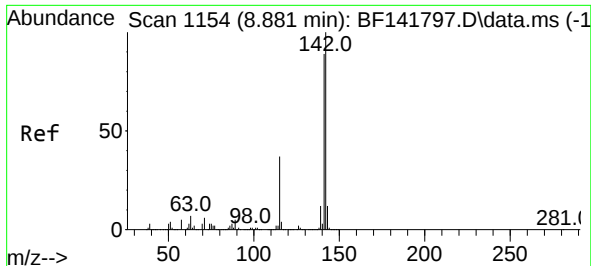
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025



#31
Naphthalene
Concen: 9.107 ng
RT: 8.186 min Scan# 1036
Delta R.T. -0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

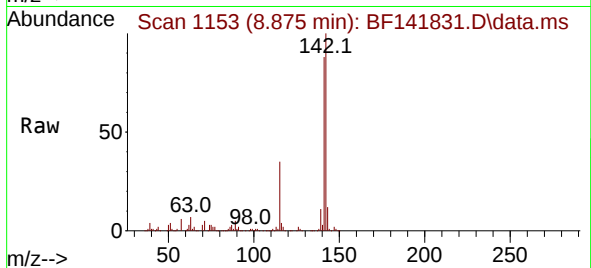
Tgt Ion:128 Resp: 413966
Ion Ratio Lower Upper
128 100
129 11.1 9.2 13.8
127 13.1 11.0 16.4





#37
2-Methylnaphthalene
Concen: 6.177 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

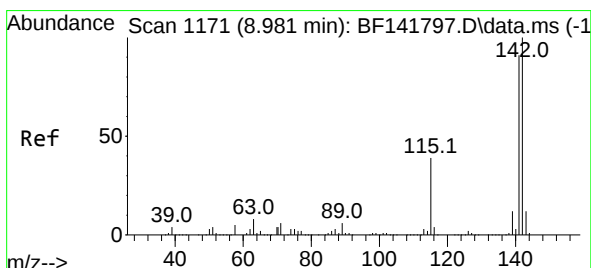
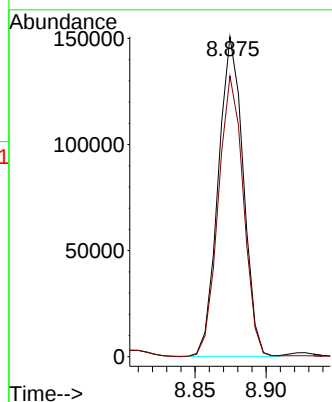
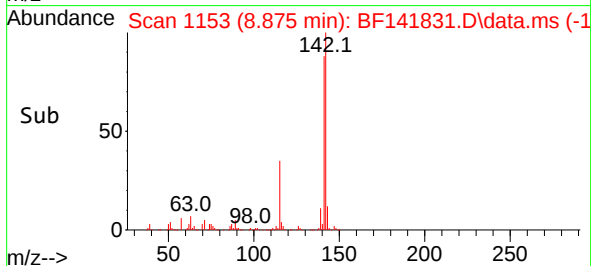
Instrument :
BNA_F
ClientSampleId :
TP-1



Tgt Ion:142 Resp: 184168
Ion Ratio Lower Upper
142 100
141 87.7 71.1 106.7

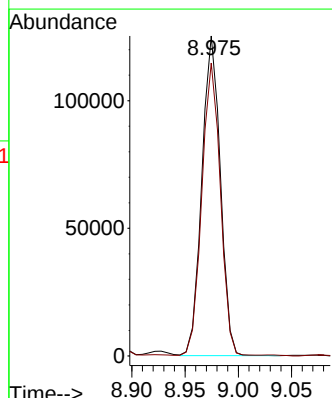
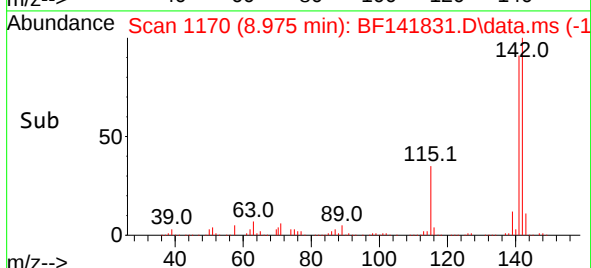
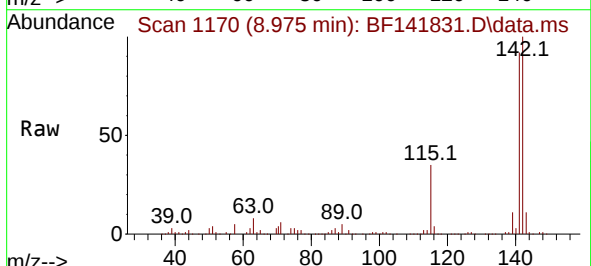
Manual Integrations
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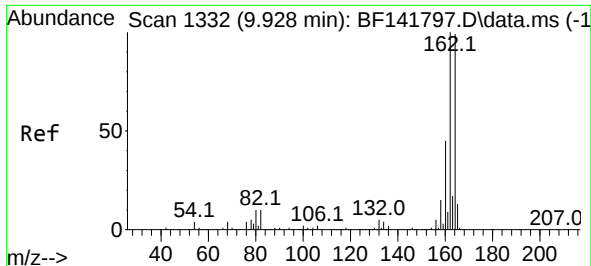
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025



#38
1-Methylnaphthalene
Concen: 5.289 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

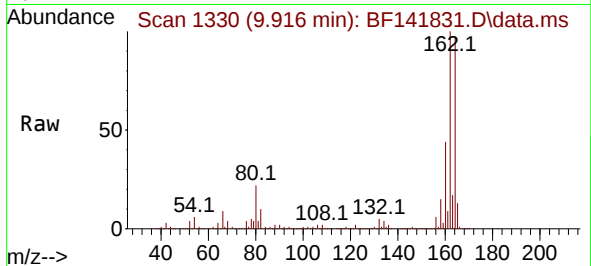
Tgt Ion:142 Resp: 151318
Ion Ratio Lower Upper
142 100
141 91.6 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1332
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

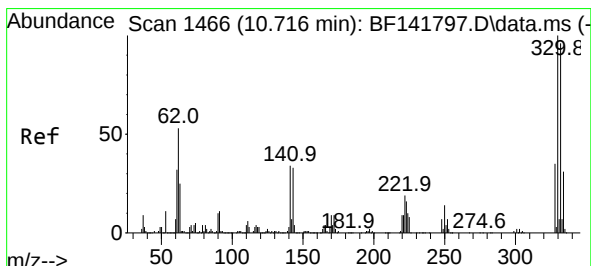
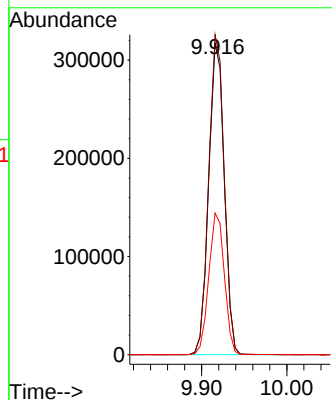
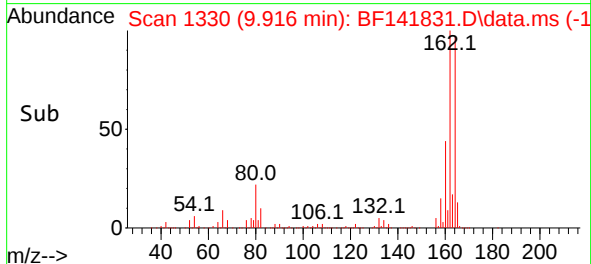
Instrument :
BNA_F
ClientSampleId :
TP-1



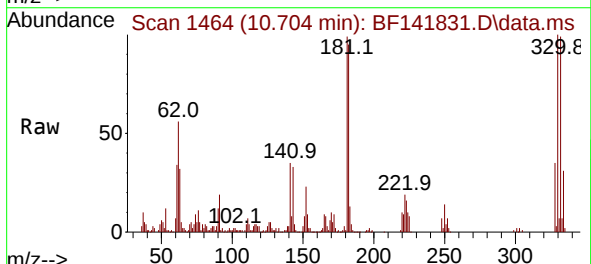
Tgt Ion:164 Resp: 402639
Ion Ratio Lower Upper
164 100
162 102.7 80.6 120.8
160 45.5 36.3 54.5

Manual Integrations
APPROVED

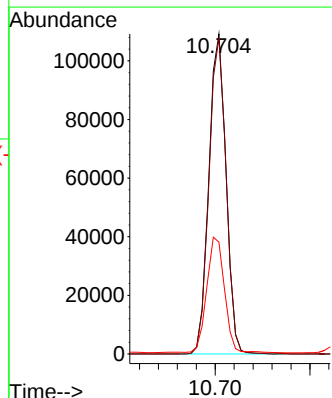
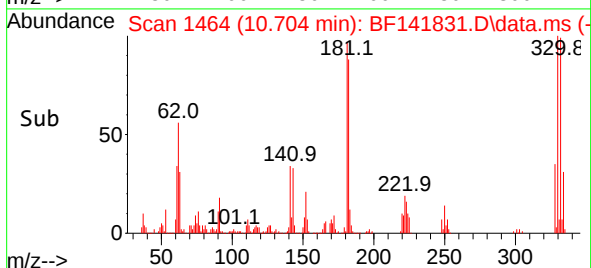
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025

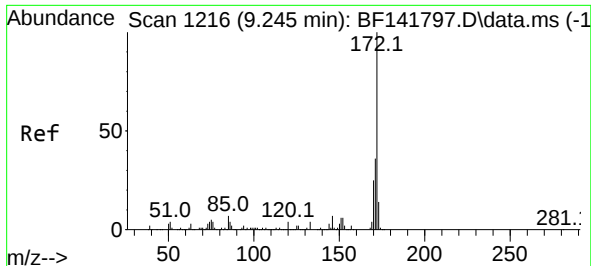


#42
2,4,6-Tribromophenol
Concen: 36.259 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16



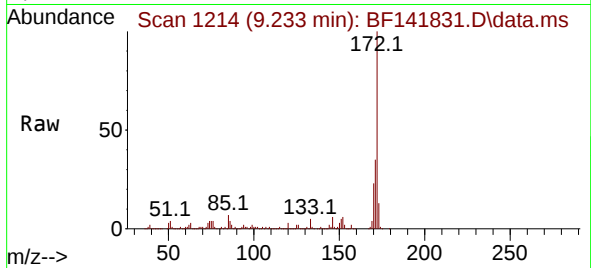
Tgt Ion:330 Resp: 137061
Ion Ratio Lower Upper
330 100
332 98.5 76.6 115.0
141 37.6 29.0 43.4





#45
2-Fluorobiphenyl
Concen: 32.331 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

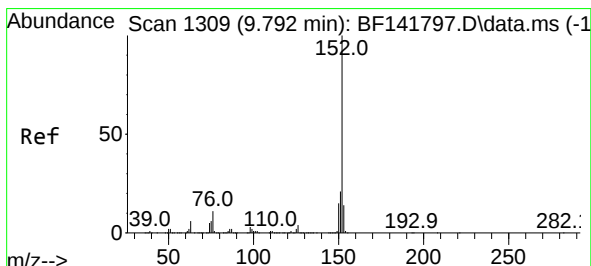
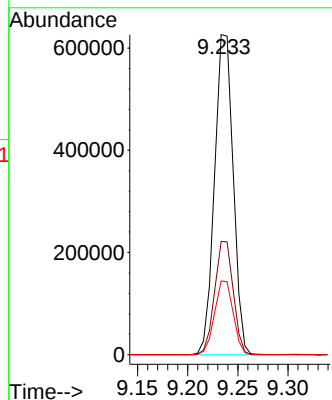
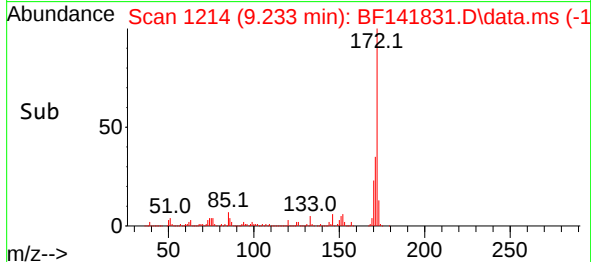
Instrument :
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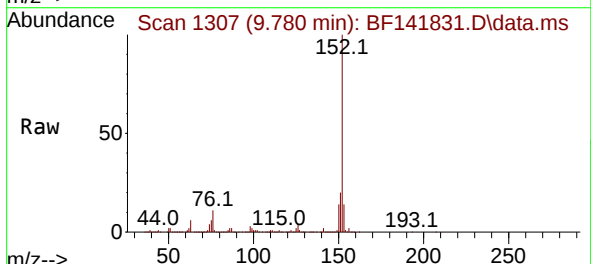
Tgt Ion:172 Resp: 81184
Ion Ratio Lower Upper
172 100
171 35.4 29.2 43.8
170 23.0 19.7 29.5

Manual Integrations
APPROVED

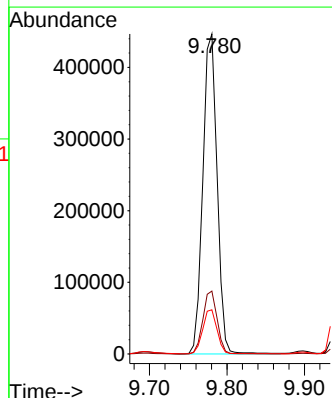
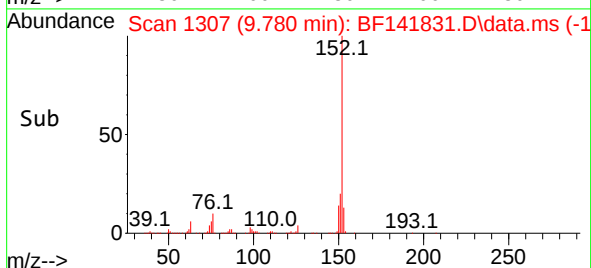
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025

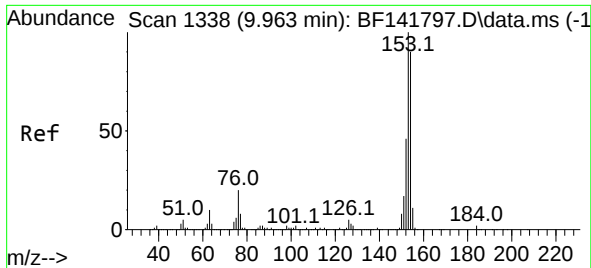


#49
Acenaphthylene
Concen: 16.882 ng
RT: 9.780 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16



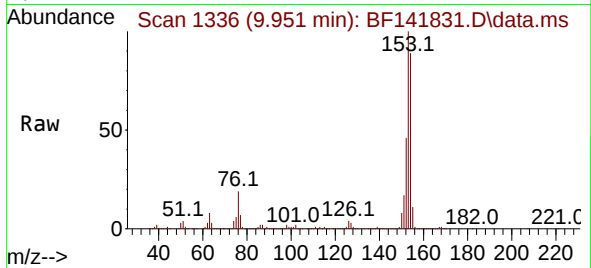
Tgt Ion:152 Resp: 572549
Ion Ratio Lower Upper
152 100
151 19.6 16.6 24.8
153 13.8 11.2 16.8





#52
Acenaphthene
Concen: 17.036 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

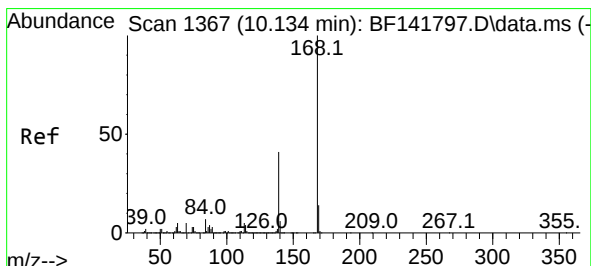
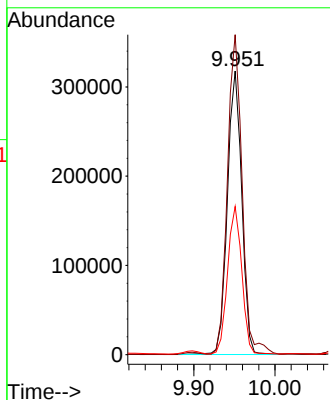
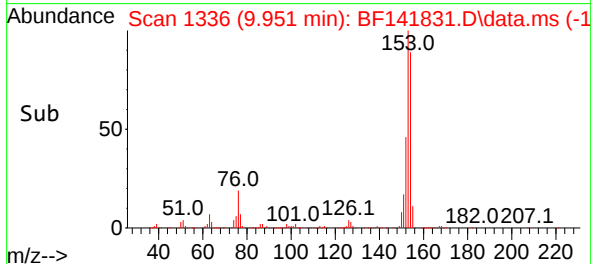
Instrument :
BNA_F
ClientSampleId :
TP-1



Tgt Ion:154 Resp: 38985
Ion Ratio Lower Upper
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153 112.8 88.7 133.1
152 52.2 40.9 61.3

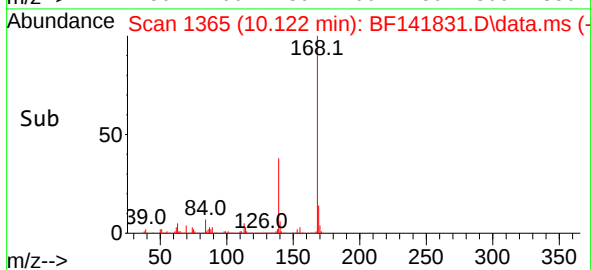
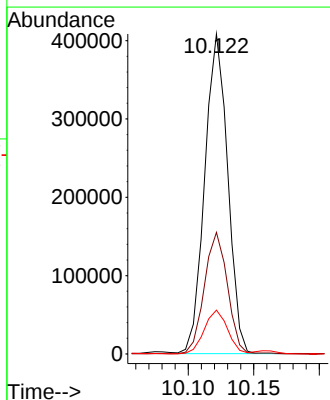
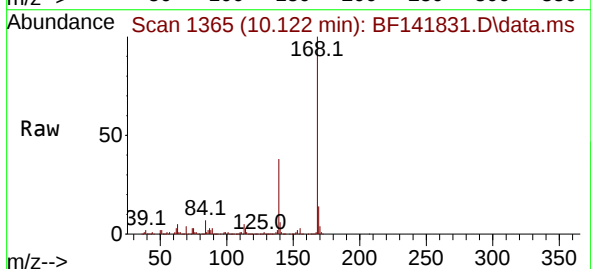
Manual Integrations
APPROVED

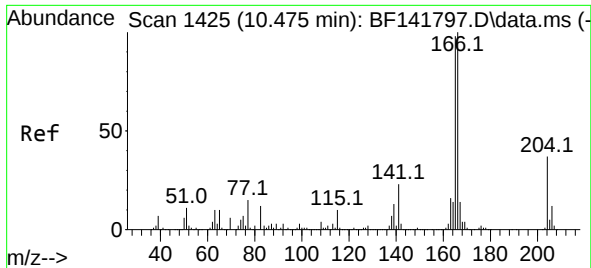
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025



#55
Dibenzofuran
Concen: 14.900 ng
RT: 10.122 min Scan# 1365
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

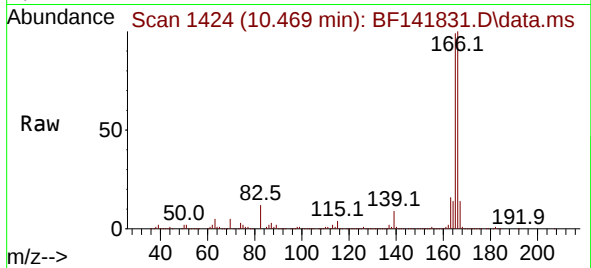
Tgt Ion:168 Resp: 496265
Ion Ratio Lower Upper
168 100
139 38.0 32.9 49.3
169 13.7 11.1 16.7





#58
Fluorene
Concen: 32.298 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

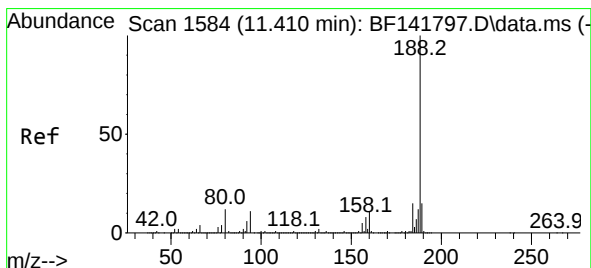
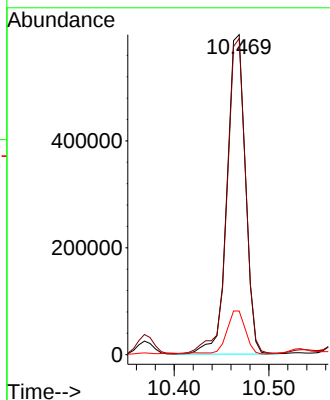
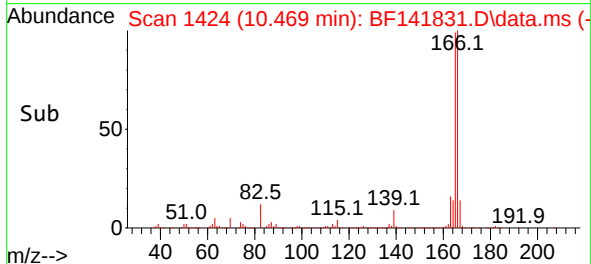
Instrument :
BNA_F
ClientSampleId :
TP-1



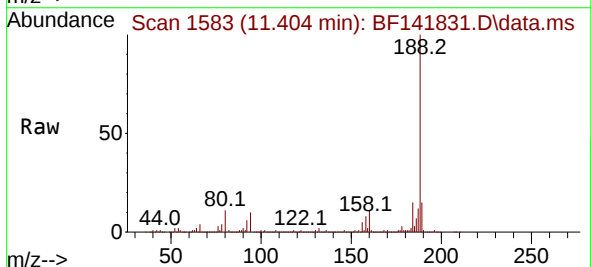
Tgt Ion:166 Resp: 805811
Ion Ratio Lower Upper
166 100
165 98.8 78.6 117.8
167 13.7 11.0 16.4

Manual Integrations
APPROVED

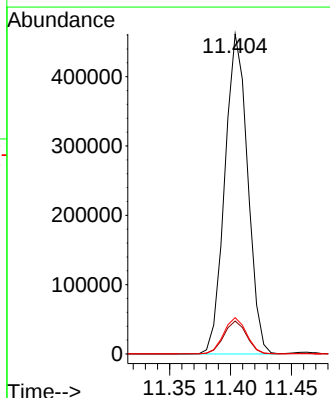
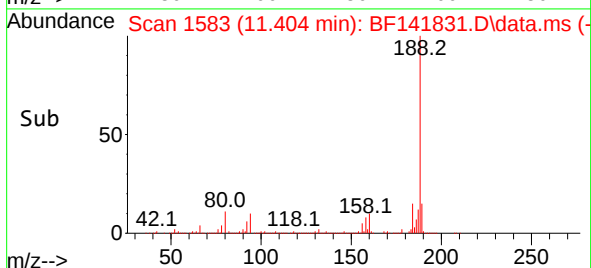
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025

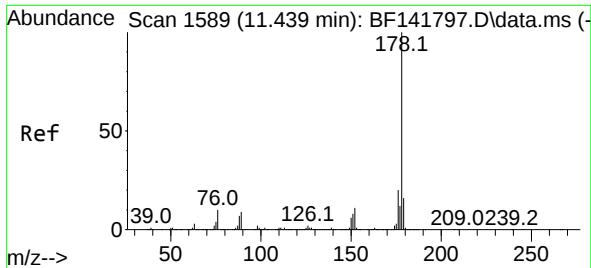


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16



Tgt Ion:188 Resp: 602200
Ion Ratio Lower Upper
188 100
94 10.3 8.9 13.3
80 11.3 9.7 14.5





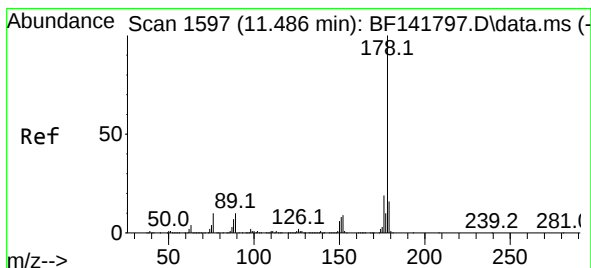
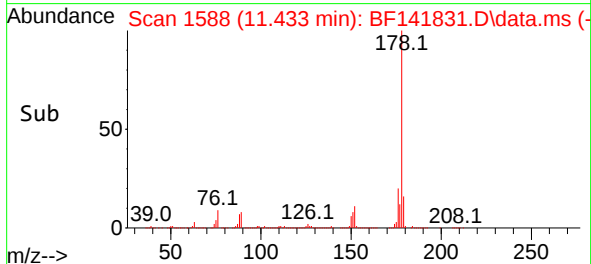
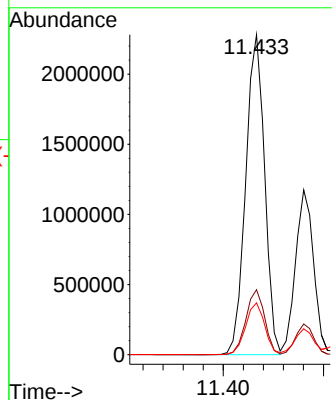
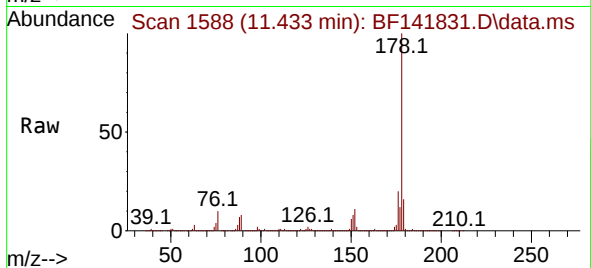
#71
Phenanthrene
Concen: 92.759 ng
RT: 11.433 min Scan# 1589
Delta R.T. -0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

Instrument :
BNA_F
ClientSampleId :
TP-1

Tgt Ion:178 Resp: 298792
Ion Ratio Lower Upper
178 100
176 20.3 16.0 24.0
179 16.2 12.6 19.0

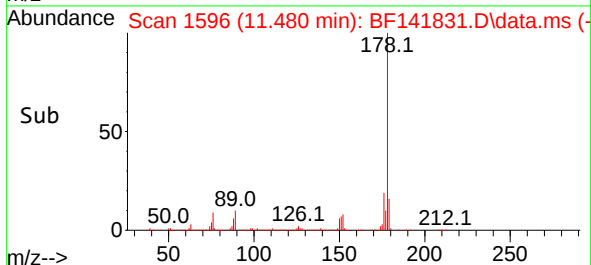
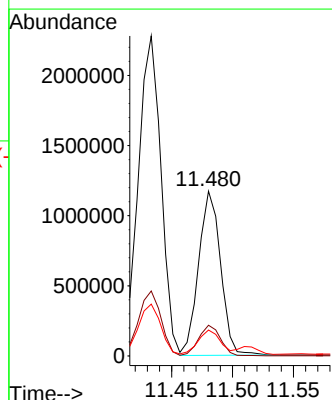
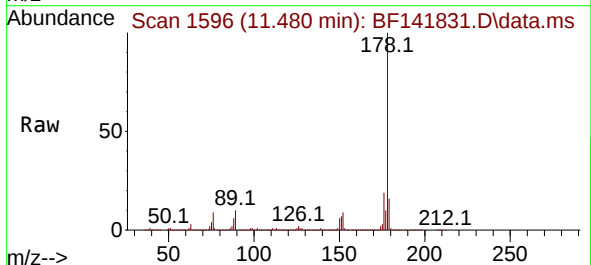
Manual Integrations
APPROVED

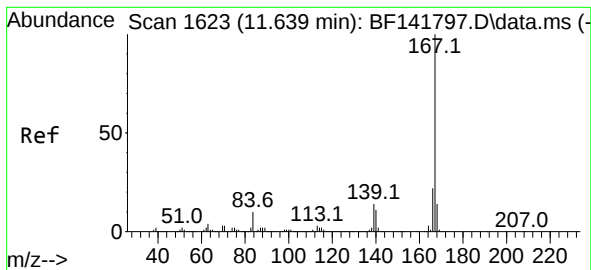
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025



#72
Anthracene
Concen: 45.577 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

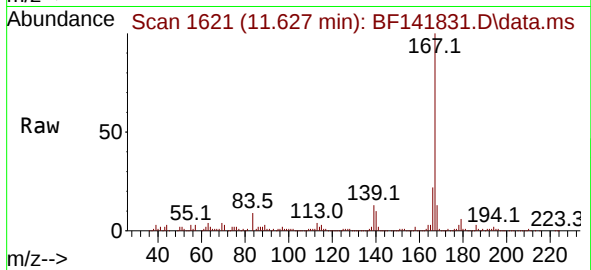
Tgt Ion:178 Resp: 1471378
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.0
179 15.7 12.8 19.2





#73
 Carbazole
 Concen: 6.717 ng
 RT: 11.627 min Scan# 1791
 Delta R.T. -0.012 min
 Lab File: BF141831.D
 Acq: 04 Mar 2025 17:16

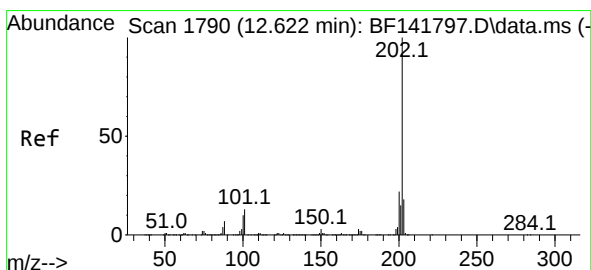
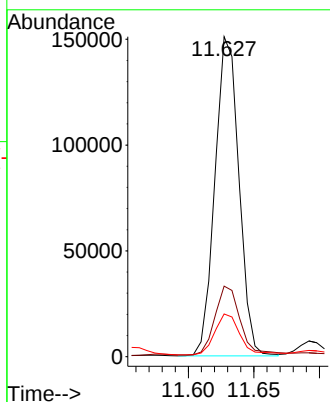
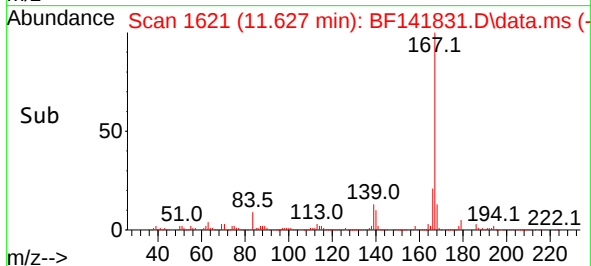
Instrument :
 BNA_F
 ClientSampleId :
 TP-1



Tgt Ion:167 Resp: 191504
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.5 26.3
 139 13.4 11.3 16.9

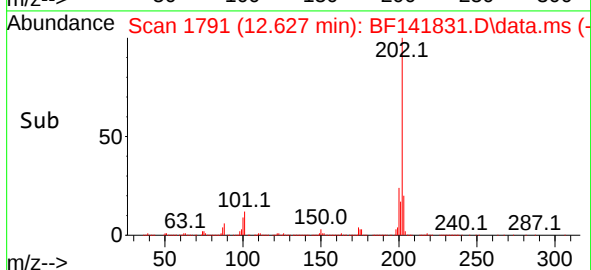
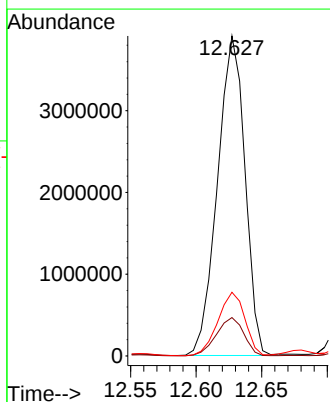
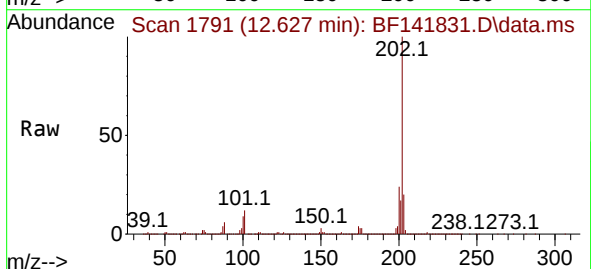
Manual Integrations
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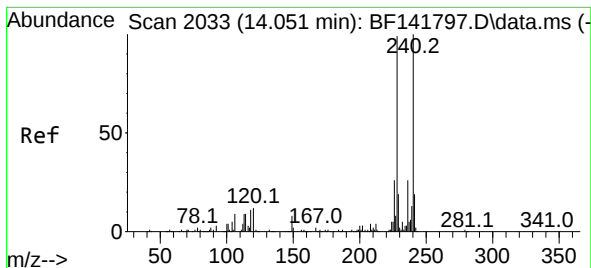
Reviewed By :Anahy Claudio 03/05/2025
 Supervised By :Jagrut Upadhyay 03/05/2025



#75
 Fluoranthene
 Concen: 172.673 ng
 RT: 12.627 min Scan# 1791
 Delta R.T. 0.006 min
 Lab File: BF141831.D
 Acq: 04 Mar 2025 17:16

Tgt Ion:202 Resp: 5699273
 Ion Ratio Lower Upper
 202 100
 101 12.0 0.0 32.8
 203 19.9 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2033

Delta R.T. -0.000 min

Lab File: BF141831.D

Acq: 04 Mar 2025 17:16

Instrument :

BNA_F

ClientSampleId :

TP-1

Tgt Ion:240 Resp: 528870

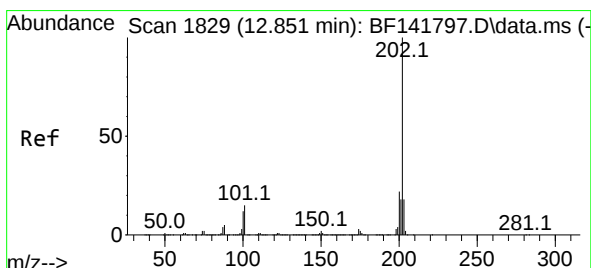
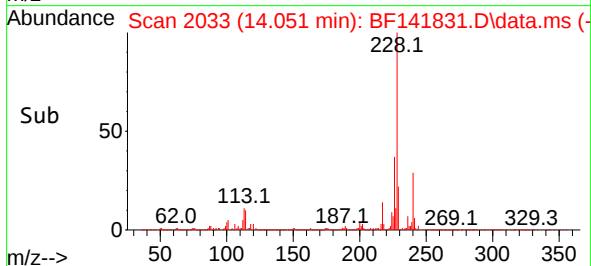
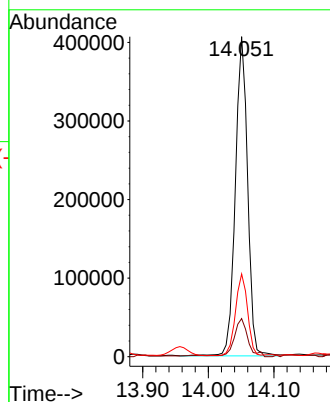
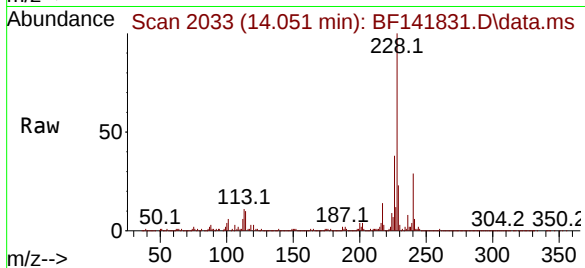
Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.7	14.5
236	25.9	21.0	31.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/05/2025

Supervised By :Jagrut Upadhyay 03/05/2025



#78

Pyrene

Concen: 105.300 ng

RT: 12.857 min Scan# 1830

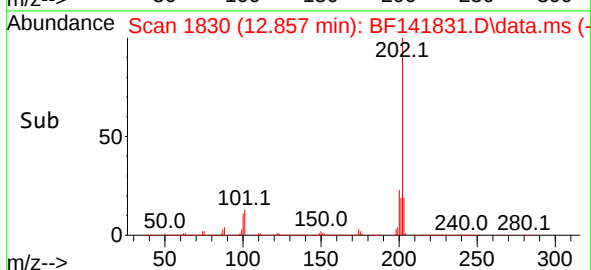
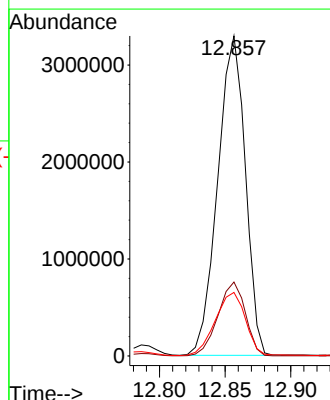
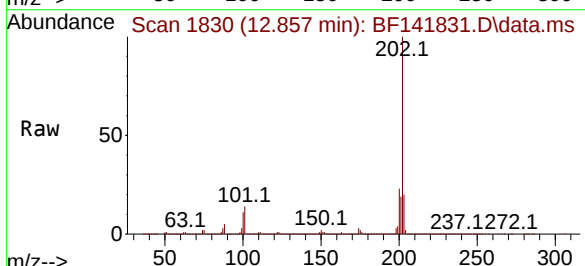
Delta R.T. 0.006 min

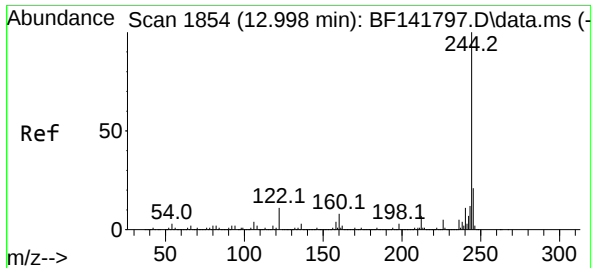
Lab File: BF141831.D

Acq: 04 Mar 2025 17:16

Tgt Ion:202 Resp: 4822393

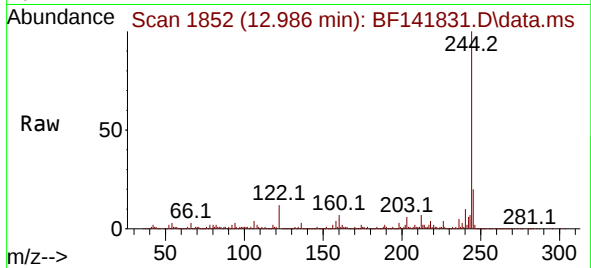
Ion	Ratio	Lower	Upper
202	100		
200	23.1	17.4	26.0
203	19.8	14.6	22.0





#79
Terphenyl-d14
Concen: 22.569 ng
RT: 12.986 min Scan# 1854
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

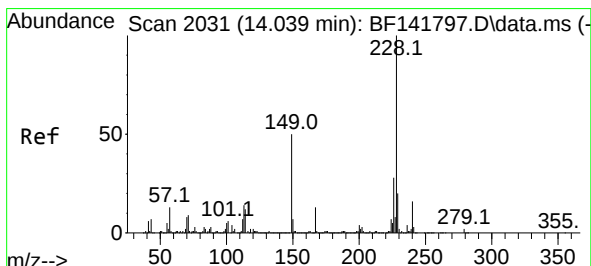
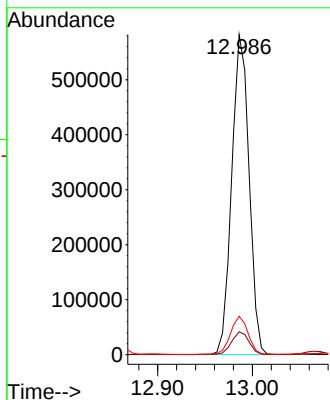
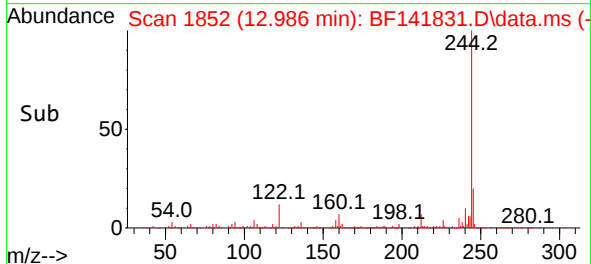
Instrument :
BNA_F
ClientSampleId :
TP-1



Tgt Ion:244 Resp: 737758
Ion Ratio Lower Upper
244 100
212 7.2 6.0 9.0
122 12.0 9.0 13.6

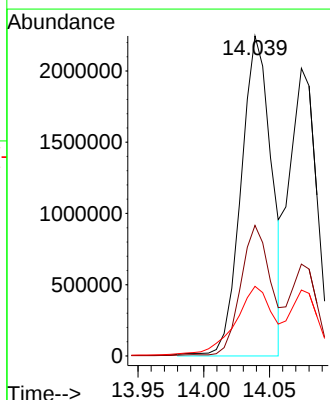
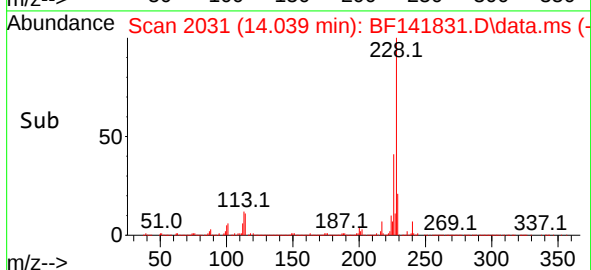
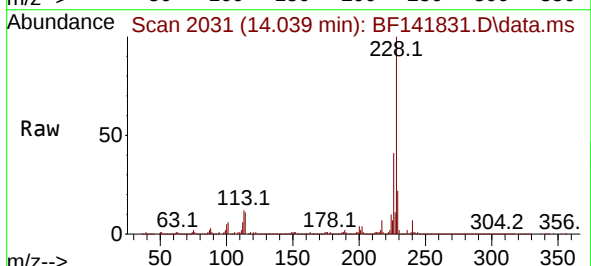
Manual Integrations
APPROVED

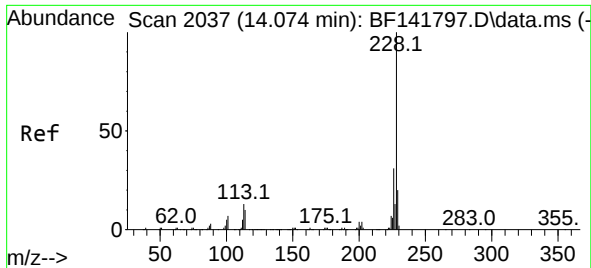
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025



#81
Benzo(a)anthracene
Concen: 103.428 ng m
RT: 14.039 min Scan# 2031
Delta R.T. -0.000 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

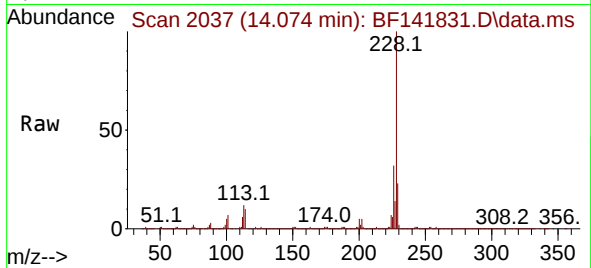
Tgt Ion:228 Resp: 3613028
Ion Ratio Lower Upper
228 100
226 40.8 22.1 33.1#
229 21.8 16.1 24.1





#83
Chrysene
Concen: 87.973 ng
RT: 14.074 min Scan# 2037
Delta R.T. -0.000 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

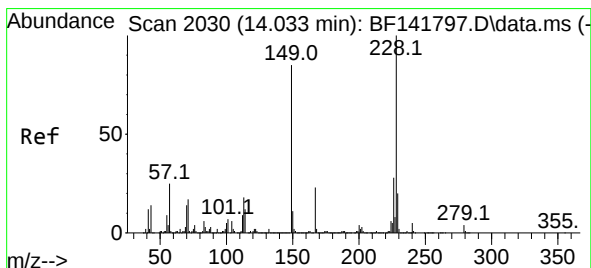
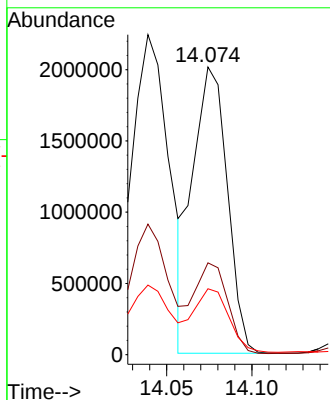
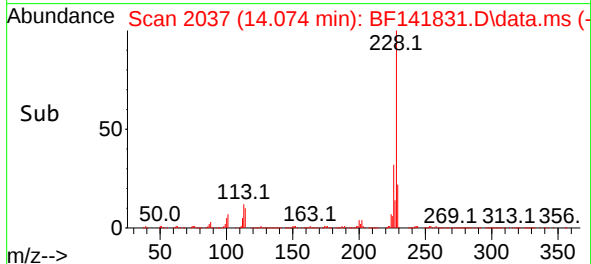
Instrument :
BNA_F
ClientSampleId :
TP-1



Tgt Ion:228 Resp: 283288
Ion Ratio Lower Upper
228 100
226 32.0 24.6 37.0
229 22.9 16.1 24.1

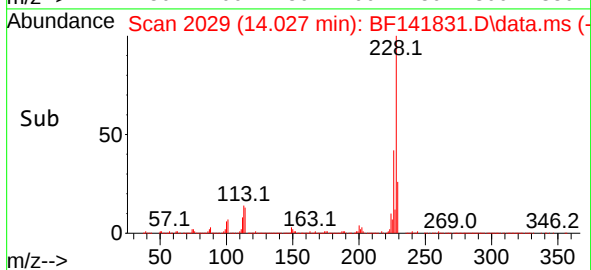
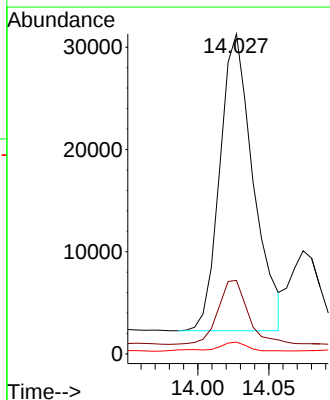
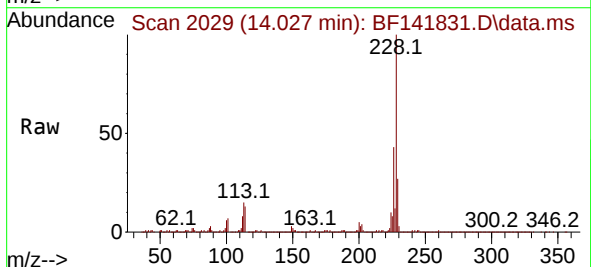
Manual Integrations
APPROVED

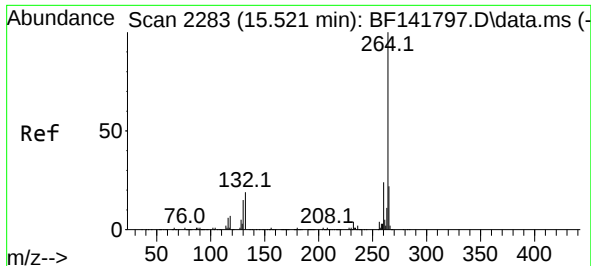
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025



#84
Bis(2-ethylhexyl)phthalate
Concen: 2.296 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

Tgt Ion:149 Resp: 47574
Ion Ratio Lower Upper
149 100
167 23.0 21.2 31.8
279 3.7 3.3 4.9





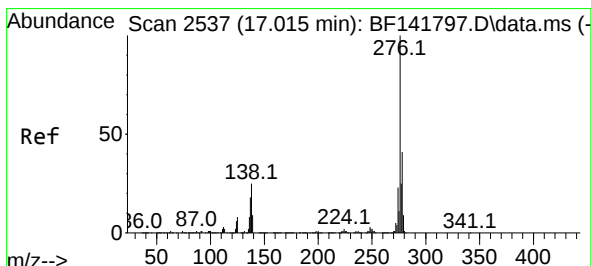
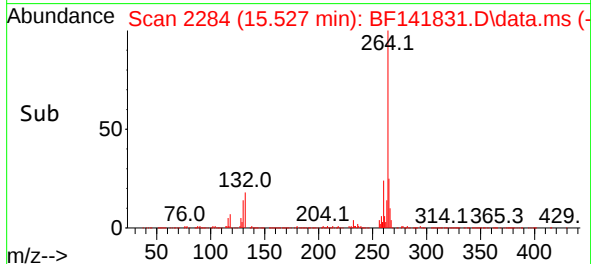
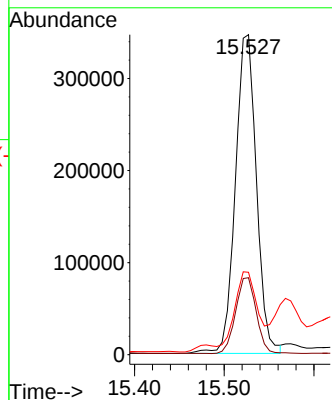
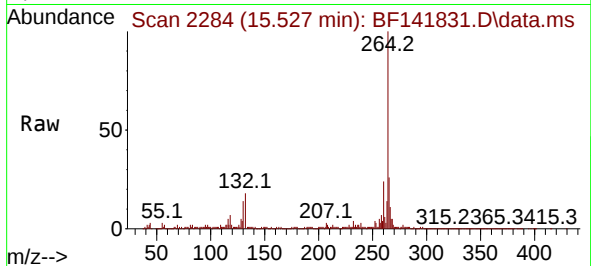
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

Instrument :
BNA_F
ClientSampleId :
TP-1

Tgt Ion:264 Resp: 56405
Ion Ratio Lower Upper
264 100
260 24.1 18.9 28.3
265 25.7 17.4 26.0

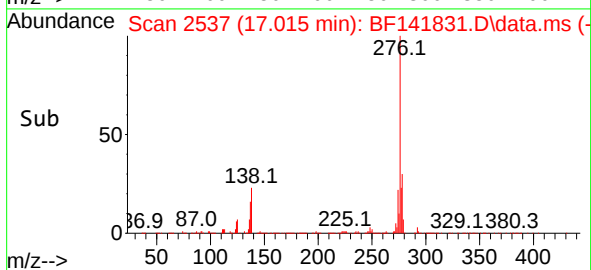
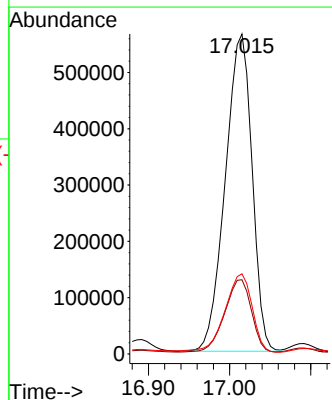
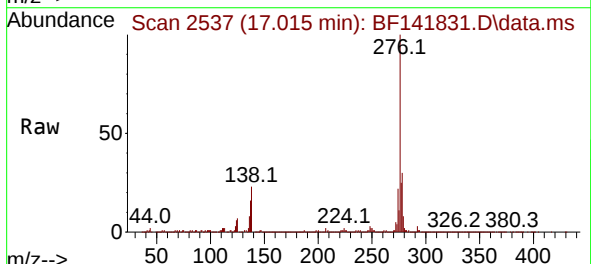
Manual Integrations
APPROVED

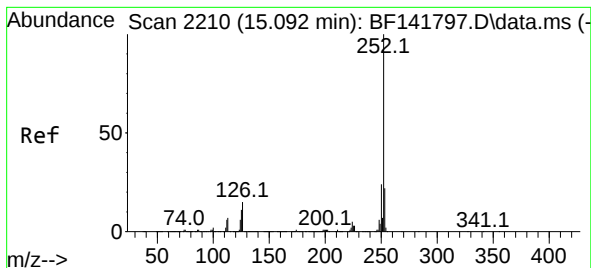
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 35.971 ng
RT: 17.015 min Scan# 2537
Delta R.T. -0.000 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

Tgt Ion:276 Resp: 1291972
Ion Ratio Lower Upper
276 100
138 22.7 22.5 33.7
277 25.2 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 102.311 ng m

RT: 15.098 min Scan# 2210

Delta R.T. 0.006 min

Lab File: BF141831.D

Acq: 04 Mar 2025 17:16

Instrument :

BNA_F

ClientSampleId :

TP-1

Tgt Ion:252 Resp: 393098

Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

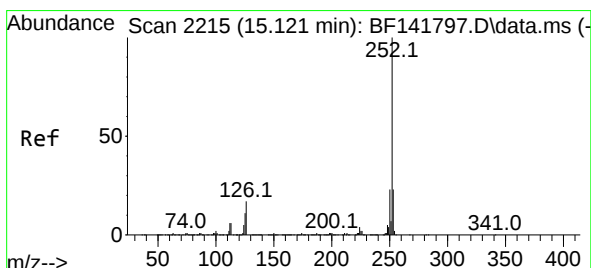
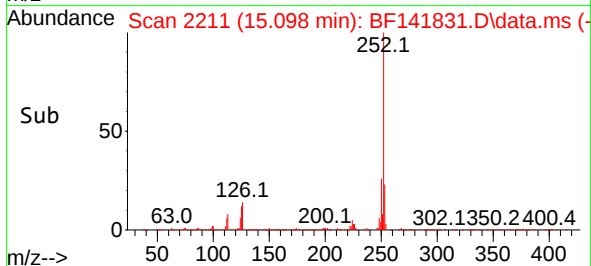
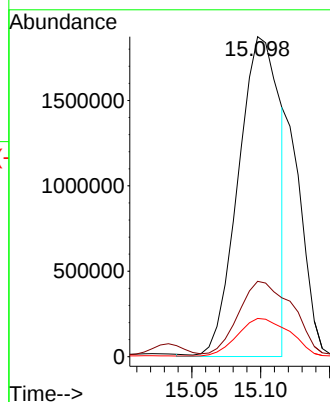
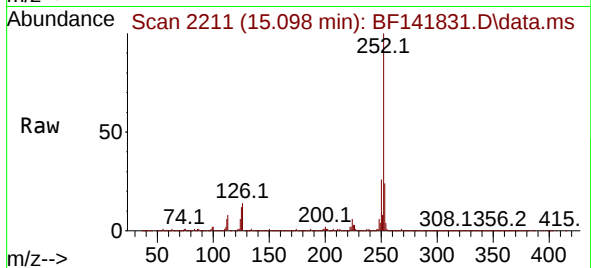
125 12.0 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/05/2025

Supervised By :Jagrut Upadhyay 03/05/2025



#89

Benzo(k)fluoranthene

Concen: 35.630 ng m

RT: 15.115 min Scan# 2214

Delta R.T. -0.006 min

Lab File: BF141831.D

Acq: 04 Mar 2025 17:16

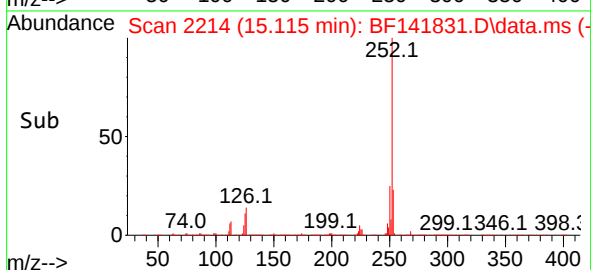
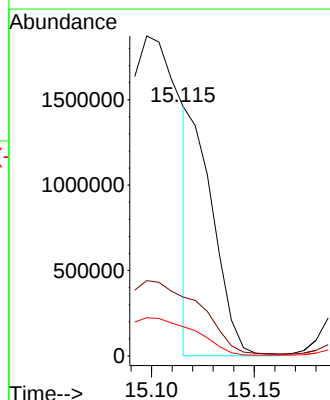
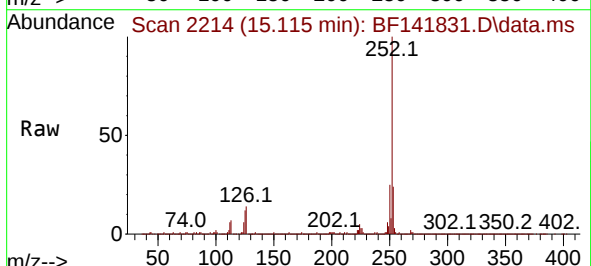
Tgt Ion:252 Resp: 1163566

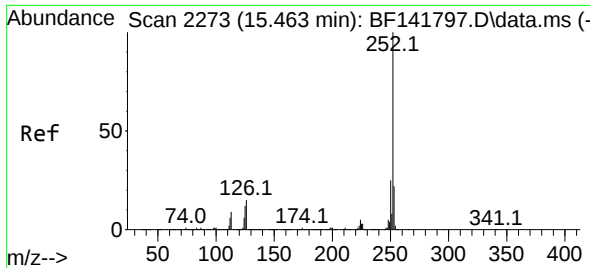
Ion Ratio Lower Upper

252 100

253 23.6 17.8 26.8

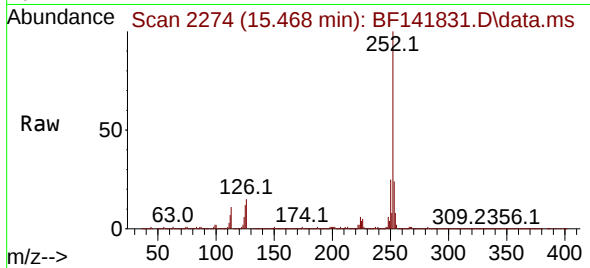
125 11.7 8.8 13.2





#90
Benzo(a)pyrene
Concen: 86.784 ng
RT: 15.468 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16

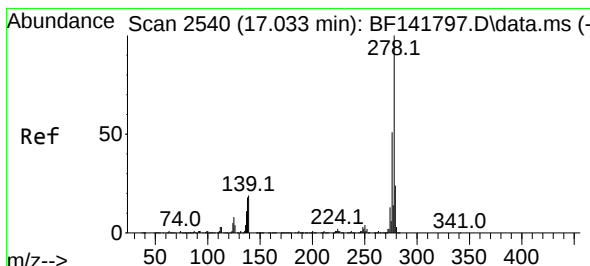
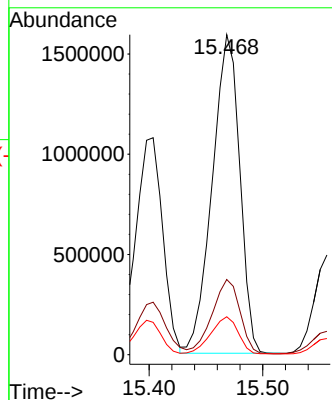
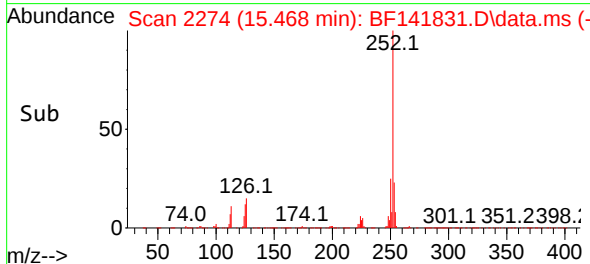
Instrument :
BNA_F
ClientSampleId :
TP-1



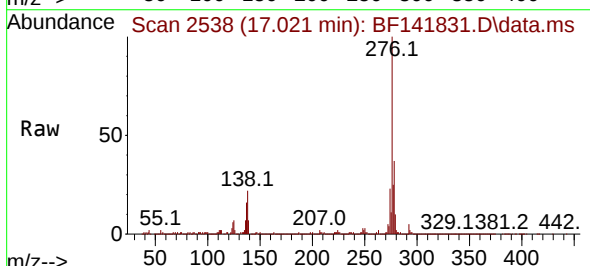
Tgt Ion:252 Resp: 2674130
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 11.8 9.4 14.2

Manual Integrations
APPROVED

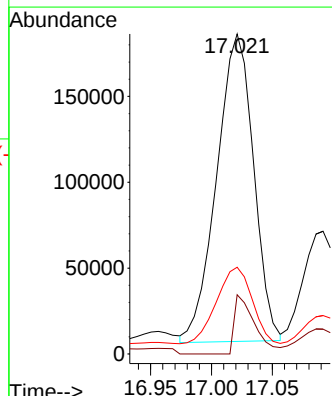
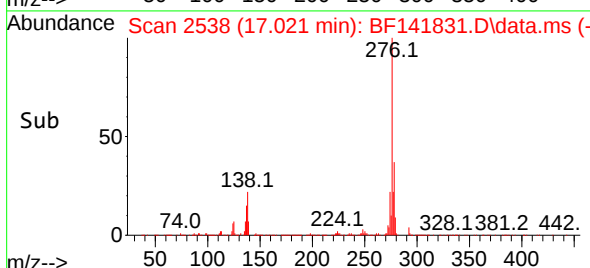
Reviewed By :Anahy Claudio 03/05/2025
Supervised By :Jagrut Upadhyay 03/05/2025

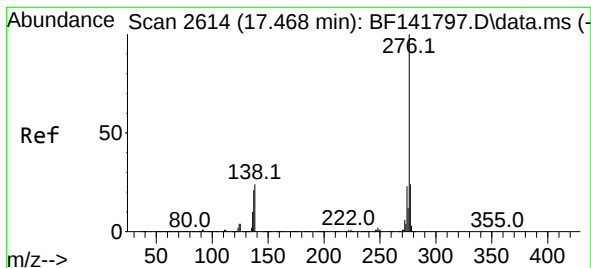


#91
Dibenzo(a,h)anthracene
Concen: 12.860 ng
RT: 17.021 min Scan# 2538
Delta R.T. -0.012 min
Lab File: BF141831.D
Acq: 04 Mar 2025 17:16



Tgt Ion:278 Resp: 377016
Ion Ratio Lower Upper
278 100
139 18.5 14.9 22.3
279 27.1 19.3 28.9





#92

Benzo(g,h,i)perylene

Concen: 37.493 ng

RT: 17.468 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF141831.D

Acq: 04 Mar 2025 17:16

Instrument :

BNA_F

ClientSampleId :

TP-1

Tgt Ion:276 Resp: 112610

Ion Ratio Lower Upper

276 100

277 24.5 19.4 29.0

138 23.4 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/05/2025

Supervised By :Jagrut Upadhyay 03/05/2025

