

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032825\
 Data File : BF142166.D
 Acq On : 28 Mar 2025 18:03
 Operator : RC/JU
 Sample : Q1654-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT3407

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025

Quant Time: Mar 28 22:47:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	155853	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	533696	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	284004	20.000	ng	# 0.00
64) Phenanthrene-d10	11.427	188	313569	20.000	ng	0.02
76) Chrysene-d12	14.057	240	302133	20.000	ng	0.02
86) Perylene-d12	15.521	264	261945	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	882789	94.534	ng	0.00
7) Phenol-d6	6.492	99	1066874	89.731	ng	-0.01
23) Nitrobenzene-d5	7.434	82	686684	72.408	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	245758	68.210	ng	0.01
45) 2-Fluorobiphenyl	9.228	172	1319211	70.642	ng	-0.01
79) Terphenyl-d14	12.992	244	1196145	58.532	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.198	128	10869933	396.494	ng	# 92
37) 2-Methylnaphthalene	8.892	142	8314429	453.732	ng	98
38) 1-Methylnaphthalene	8.986	142	4574981	258.722	ng	100
46) 1,1'-Biphenyl	9.339	154	3155710	146.240	ng	98
49) Acenaphthylene	9.775	152	561656	23.532	ng	# 92
52) Acenaphthene	9.981	154	9667928	576.389	ng	96
55) Dibenzofuran	10.145	168	10456521	436.287	ng	# 96
58) Fluorene	10.498	166	11104818	600.824	ng	# 98
71) Phenanthrene	11.486	178	26115939	1541.958	ng	# 85
72) Anthracene	11.522	178	4690886m	276.062	ng	
73) Carbazole	11.645	167	1750734	119.470	ng	98
75) Fluoranthene	12.663	202	18840586	1048.675	ng	89
78) Pyrene	12.886	202	13391821	512.413	ng	# 80
81) Benzo(a)anthracene	14.051	228	5062995	255.370	ng	95
83) Chrysene	14.086	228	3526075m	196.202	ng	
87) Indeno(1,2,3-cd)pyrene	17.004	276	331215	19.547	ng	# 93
88) Benzo(b)fluoranthene	15.098	252	2451544m	136.557	ng	
89) Benzo(k)fluoranthene	15.121	252	312868m	20.365	ng	
90) Benzo(a)pyrene	15.463	252	1064327	75.768	ng	98
91) Dibenzo(a,h)anthracene	17.015	278	100426	7.183	ng	95
92) Benzo(g,h,i)perylene	17.456	276	256558	18.570	ng	98

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

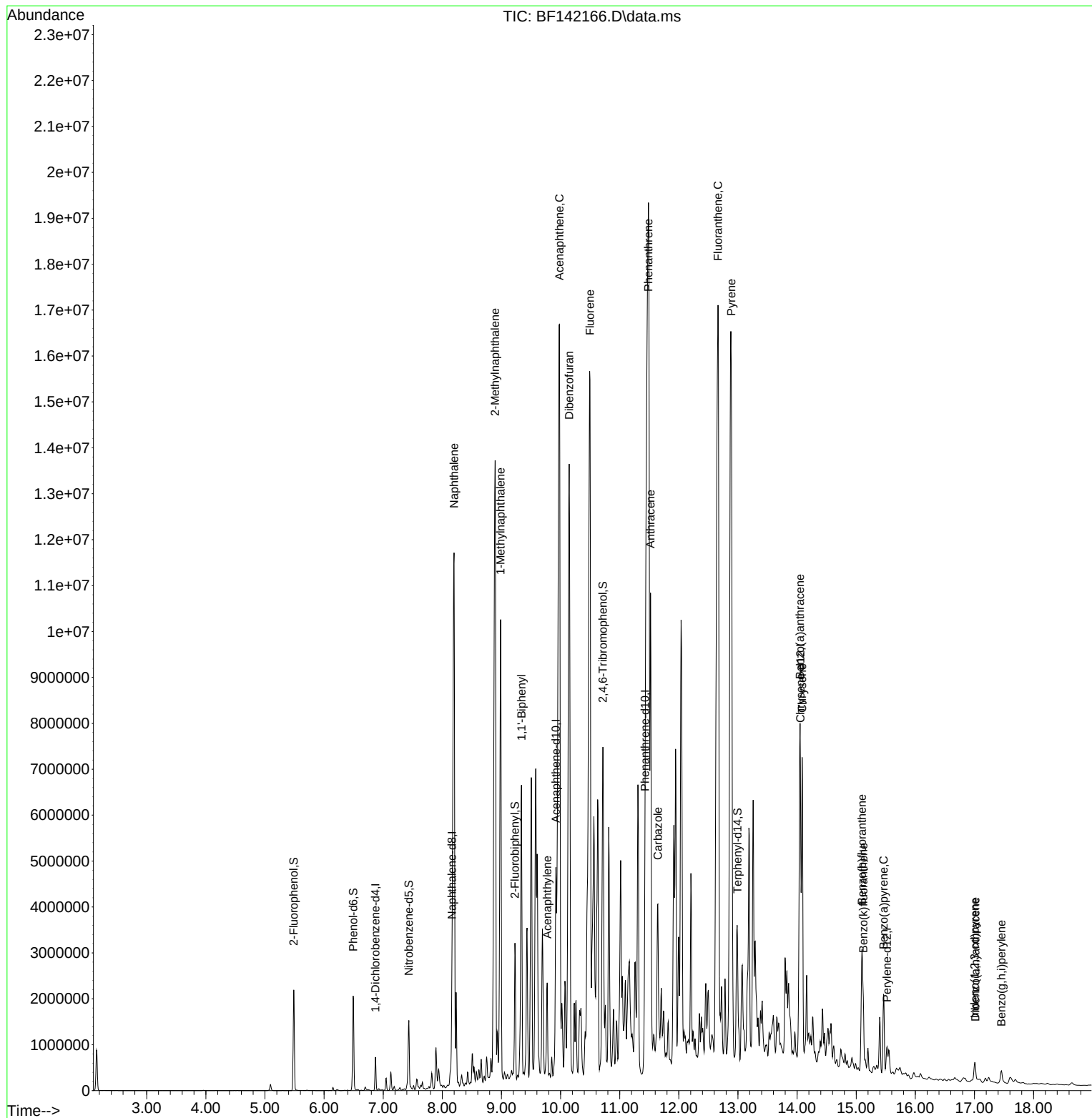
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032825\
Data File : BF142166.D
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Operator : RC/JU
Sample : Q1654-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

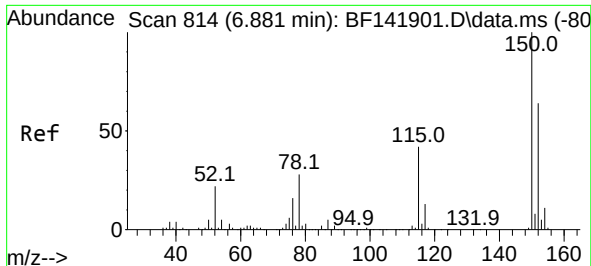
Instrument :
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Quant Time: Mar 28 22:47:05 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
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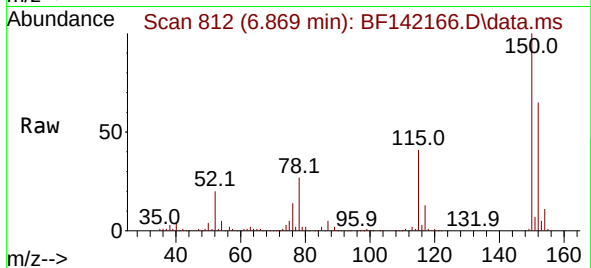
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

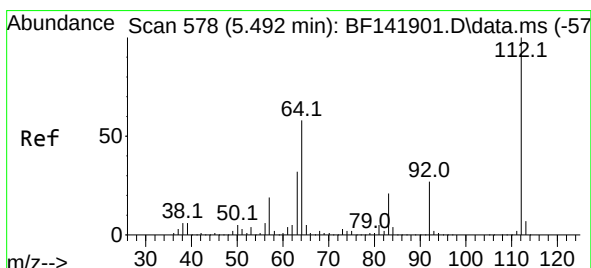
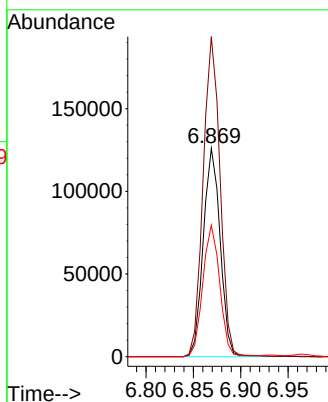
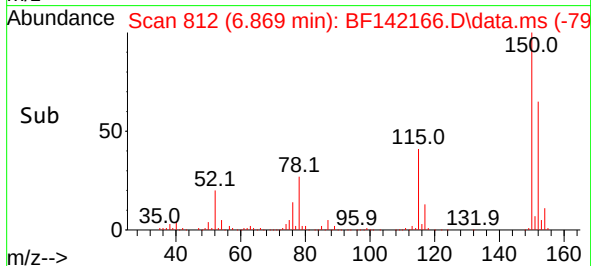
Instrument :
BNA_F
ClientSampleId :
RT3407



Tgt Ion:152 Resp: 15585
Ion Ratio Lower Upper
152 100
150 153.6 127.4 191.2
115 63.1 51.9 77.9

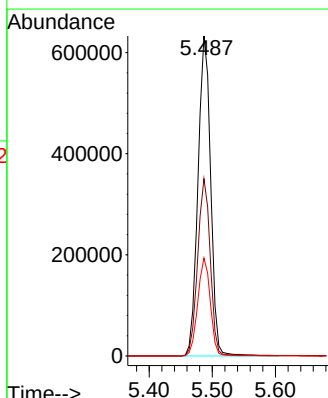
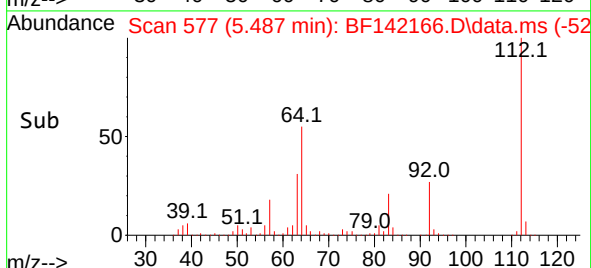
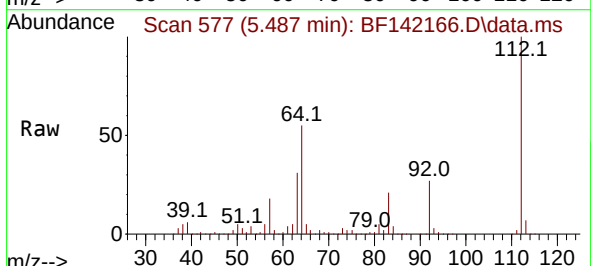
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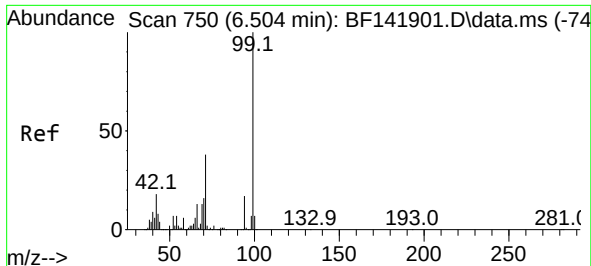
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#5
2-Fluorophenol
Concen: 94.534 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

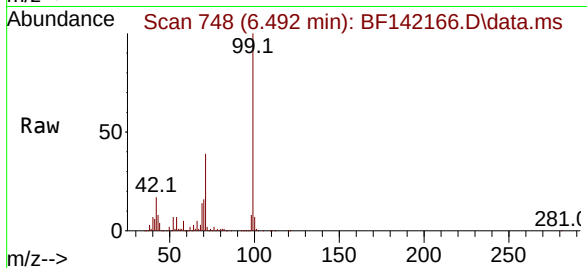
Tgt Ion:112 Resp: 882789
Ion Ratio Lower Upper
112 100
64 55.4 46.5 69.7
63 30.6 25.4 38.2





#7
Phenol-d6
Concen: 89.731 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

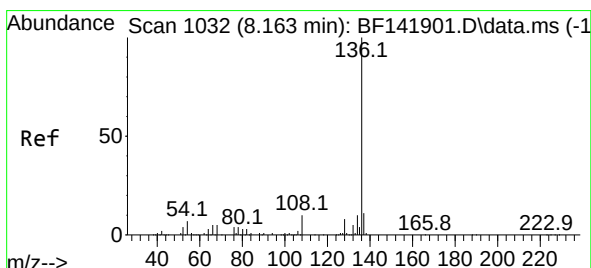
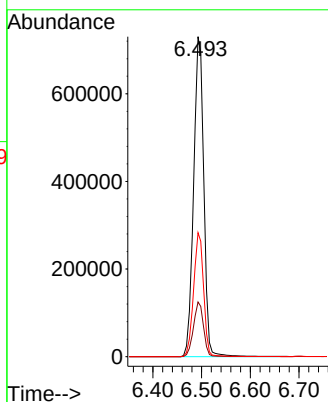
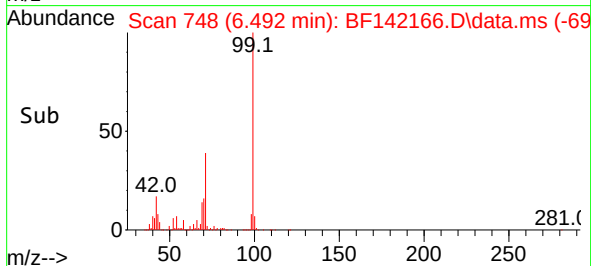
Instrument :
BNA_F
ClientSampleId :
RT3407



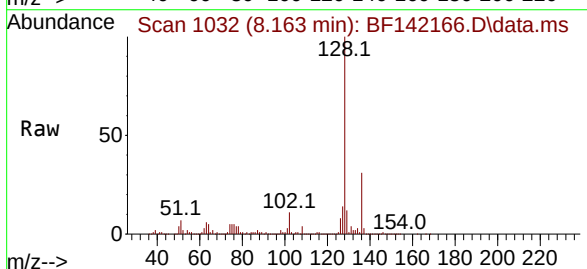
Tgt Ion: 99 Resp: 1066874
Ion Ratio Lower Upper
99 100
42 17.1 14.6 21.8
71 38.7 30.8 46.2

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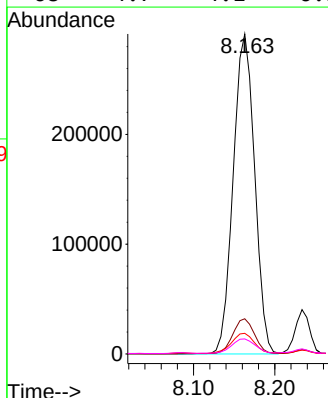
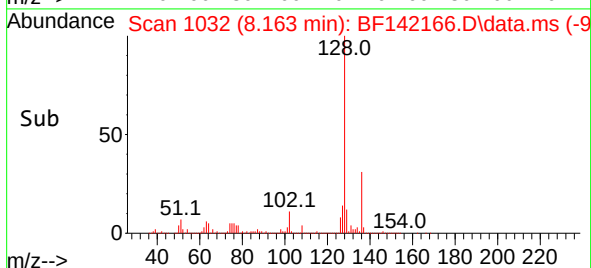
Reviewed By :Anahy Claudio 03/31/2025
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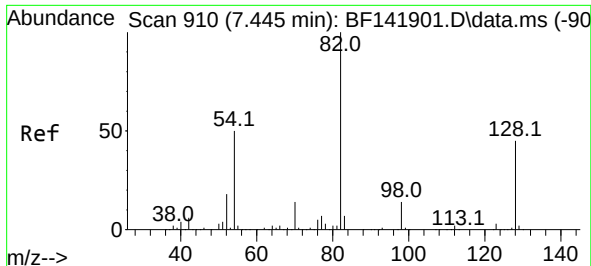


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.000 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03



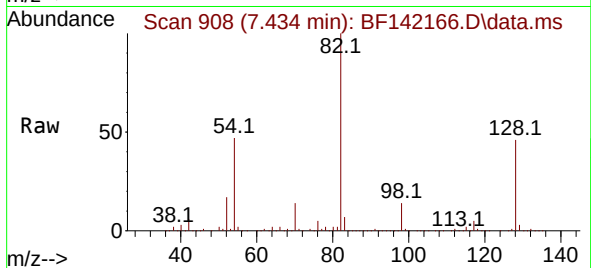
Tgt Ion:136 Resp: 533696
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.5 5.8 8.8
68 4.7 4.1 6.1





#23
Nitrobenzene-d5
Concen: 72.408 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

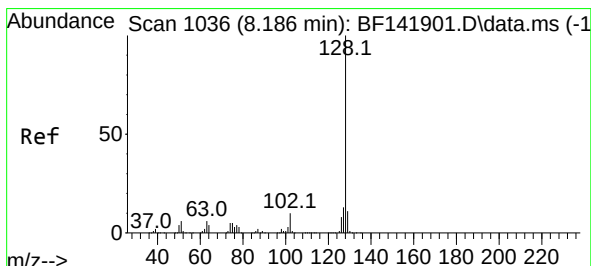
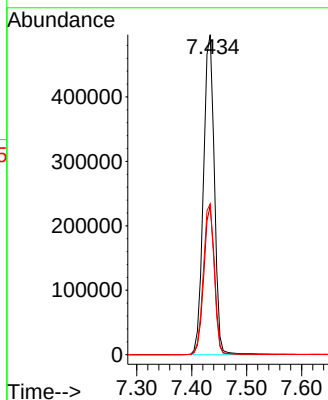
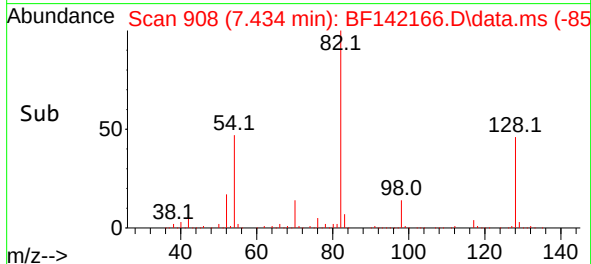
Instrument :
BNA_F
ClientSampleId :
RT3407



Tgt Ion: 82 Resp: 686684
Ion Ratio Lower Upper
82 100
128 46.5 36.0 54.0
54 47.2 39.6 59.4

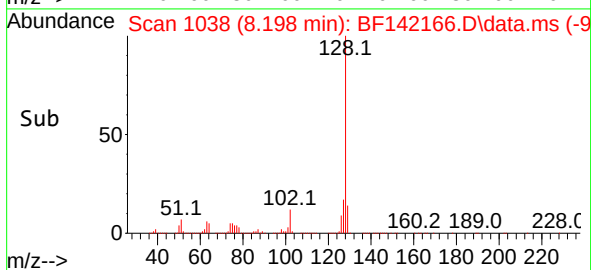
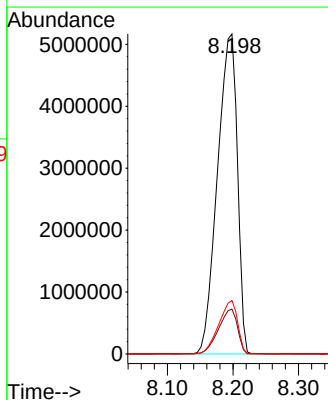
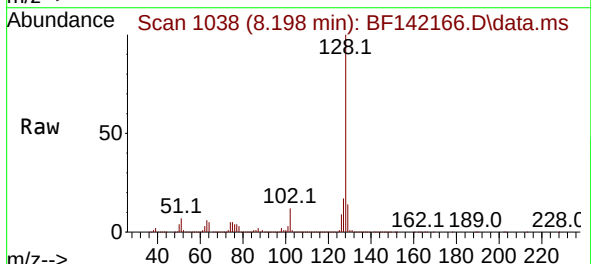
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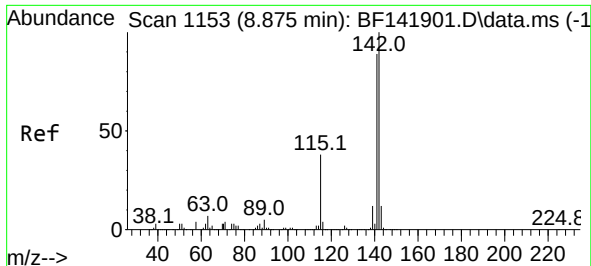
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#31
Naphthalene
Concen: 396.494 ng
RT: 8.198 min Scan# 1038
Delta R.T. 0.012 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

Tgt Ion:128 Resp:10869933
Ion Ratio Lower Upper
128 100
129 14.0 9.0 13.6#
127 16.7 10.8 16.2#





#37

2-Methylnaphthalene

Concen: 453.732 ng

RT: 8.892 min Scan# 1156

Delta R.T. 0.018 min

Lab File: BF142166.D

Acq: 28 Mar 2025 18:03

Instrument :

BNA_F

ClientSampleId :

RT3407

Tgt Ion:142 Resp: 8314429

Ion Ratio Lower Upper

142 100

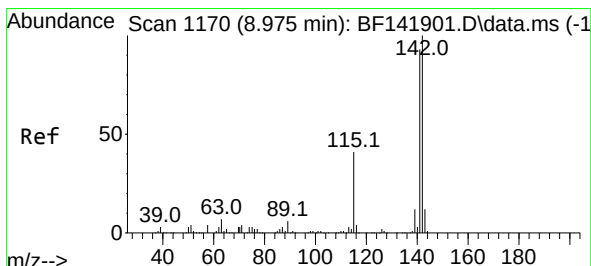
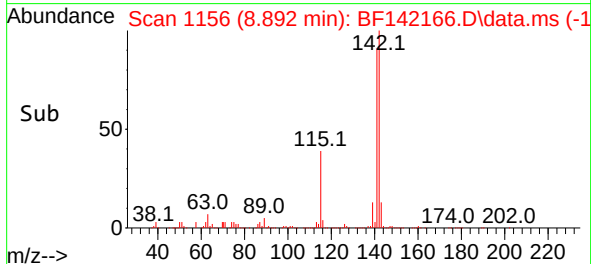
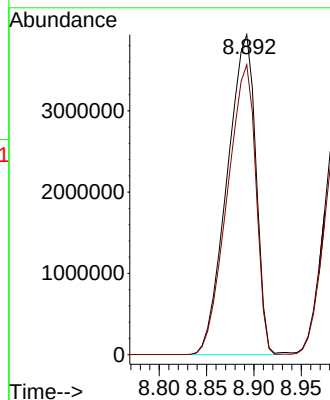
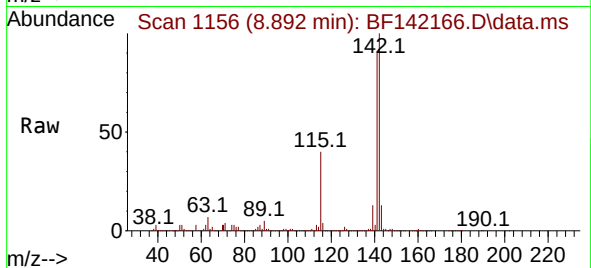
141 90.6 71.2 106.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/31/2025



#38

1-Methylnaphthalene

Concen: 258.722 ng

RT: 8.986 min Scan# 1172

Delta R.T. 0.012 min

Lab File: BF142166.D

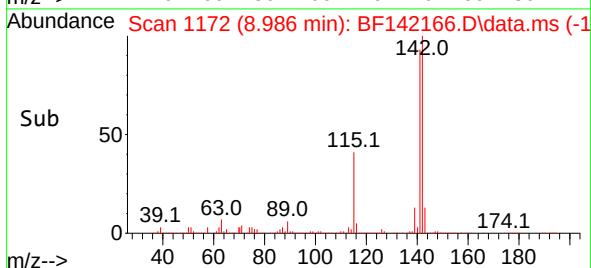
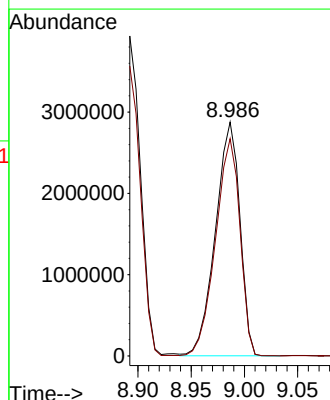
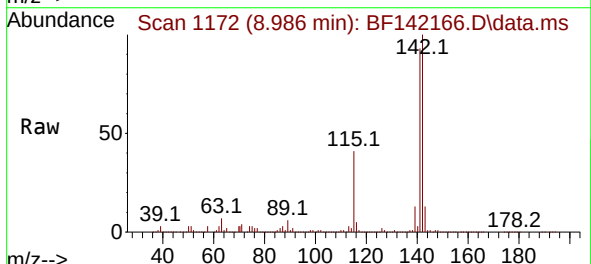
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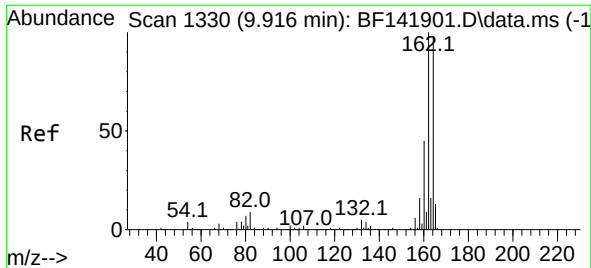
Tgt Ion:142 Resp: 4574981

Ion Ratio Lower Upper

142 100

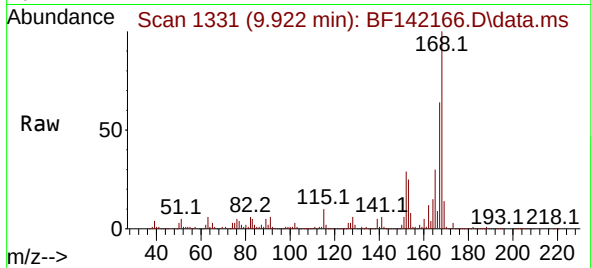
141 92.9 74.2 111.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

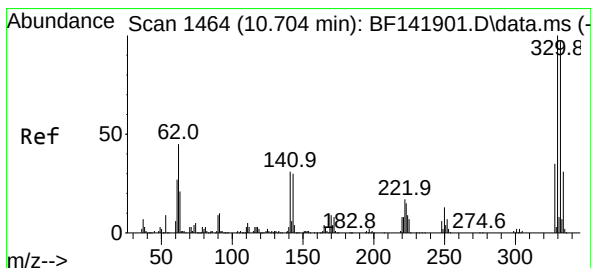
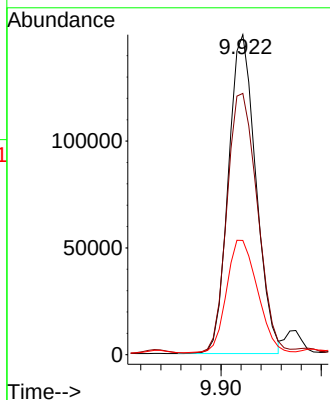
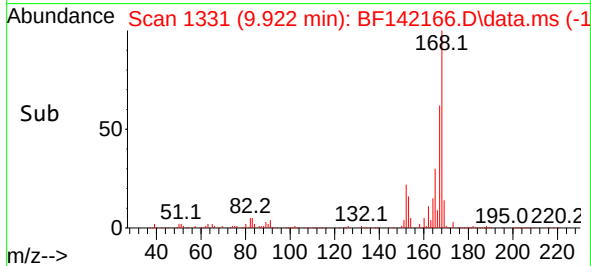
Instrument :
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ClientSampleId :
RT3407



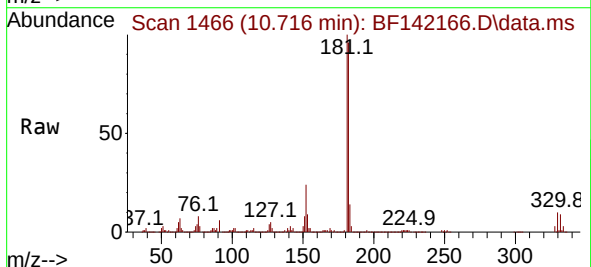
Tgt Ion:164 Resp: 284004
Ion Ratio Lower Upper
164 100
162 81.6 81.8 122.6
160 35.7 36.7 55.1

Manual Integrations
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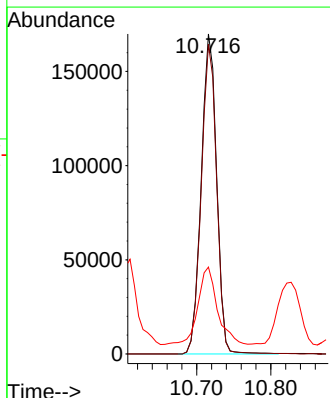
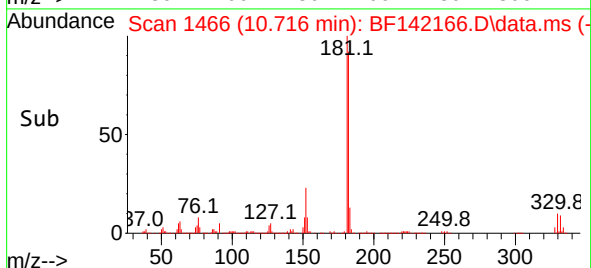
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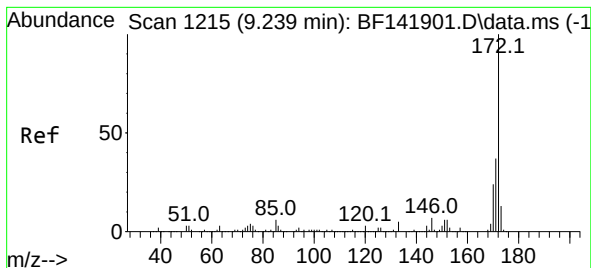


#42
2,4,6-Tribromophenol
Concen: 68.210 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.012 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03



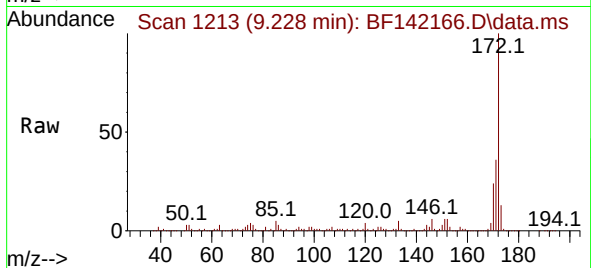
Tgt Ion:330 Resp: 245758
Ion Ratio Lower Upper
330 100
332 96.7 77.6 116.4
141 30.4 24.7 37.1





#45
2-Fluorobiphenyl
Concen: 70.642 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.012 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

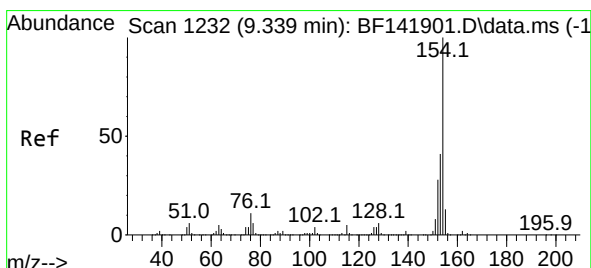
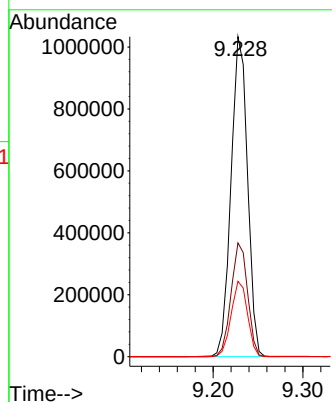
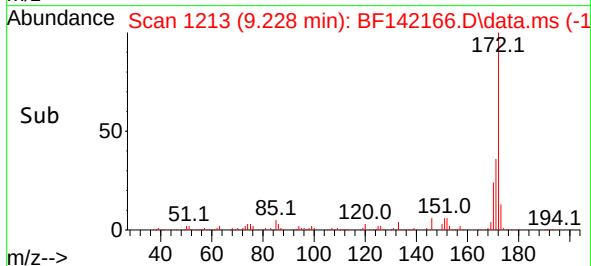
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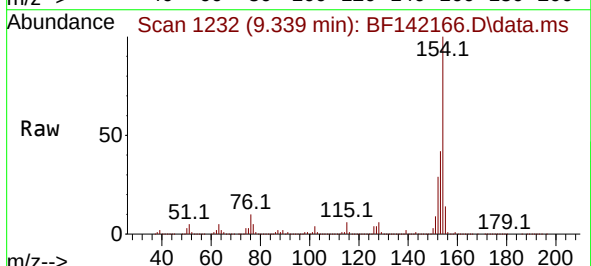
Tgt Ion:172 Resp: 131921
Ion Ratio Lower Upper
172 100
171 35.6 29.3 43.9
170 23.6 19.4 29.0

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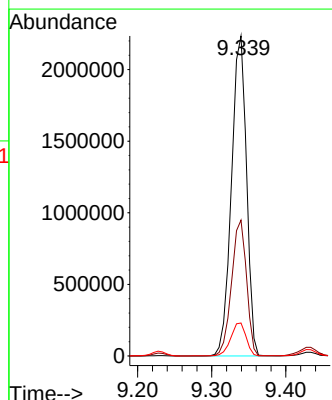
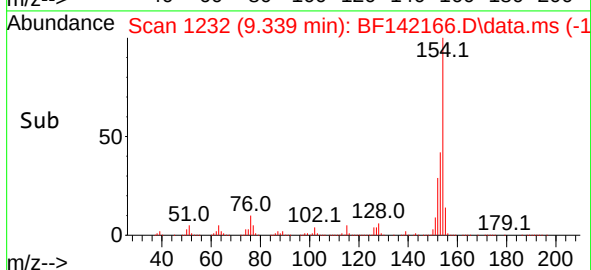
Reviewed By :Anahy Claudio 03/31/2025
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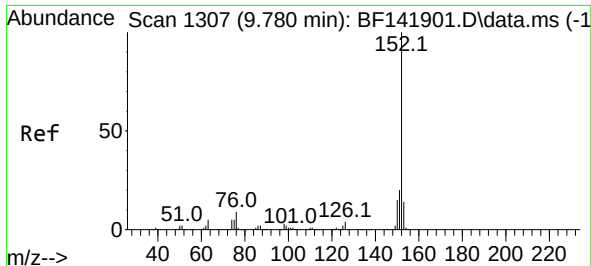


#46
1,1'-Biphenyl
Concen: 146.240 ng
RT: 9.339 min Scan# 1232
Delta R.T. 0.000 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03



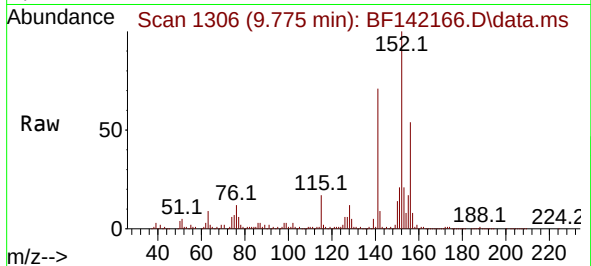
Tgt Ion:154 Resp: 3155710
Ion Ratio Lower Upper
154 100
153 42.4 21.1 61.1
76 10.3 0.0 31.3





#49
Acenaphthylene
Concen: 23.532 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

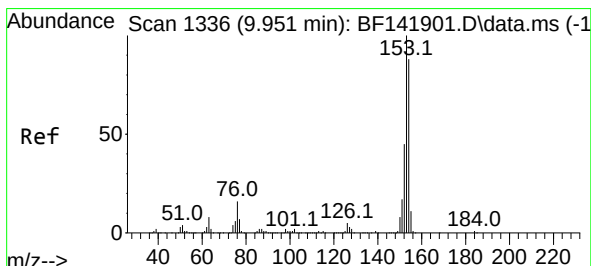
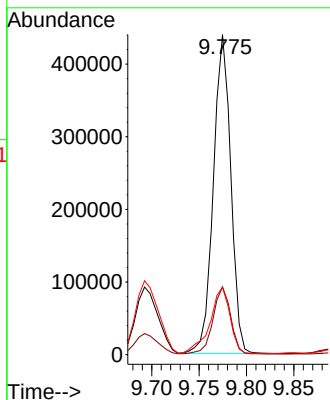
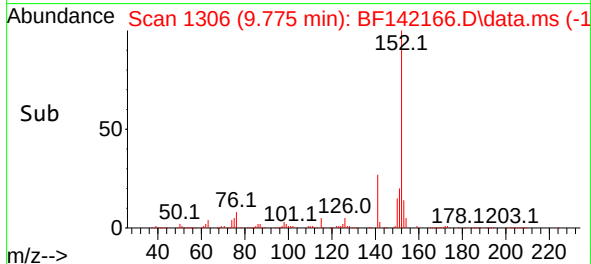
Instrument :
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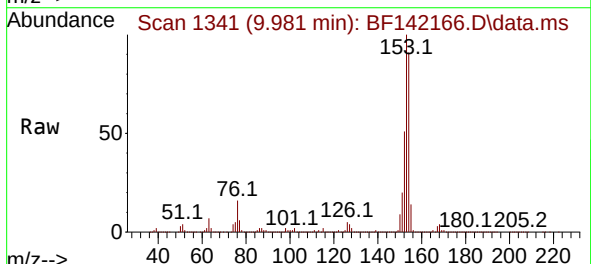
Tgt Ion:152 Resp: 561650
Ion Ratio Lower Upper
152 100
151 21.2 16.3 24.5
153 21.0 11.1 16.7

Manual Integrations
APPROVED

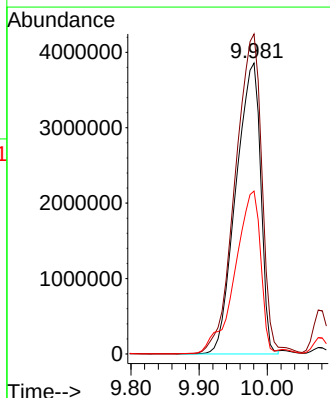
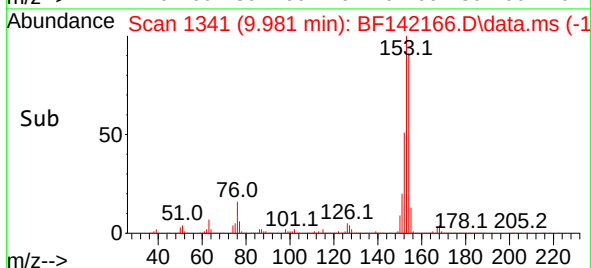
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

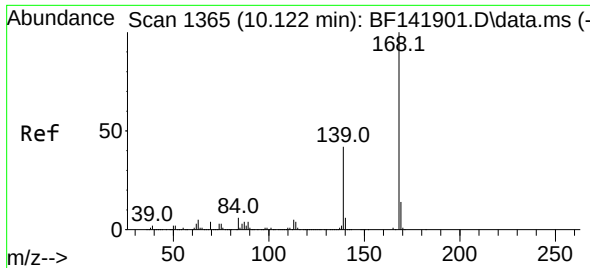


#52
Acenaphthene
Concen: 576.389 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.030 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03



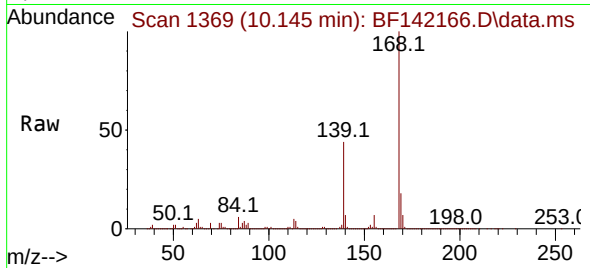
Tgt Ion:154 Resp: 9667928
Ion Ratio Lower Upper
154 100
153 110.0 90.7 136.1
152 56.0 41.1 61.7





#55
Dibenzenofuran
Concen: 436.287 ng
RT: 10.145 min Scan# 1369
Delta R.T. 0.024 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

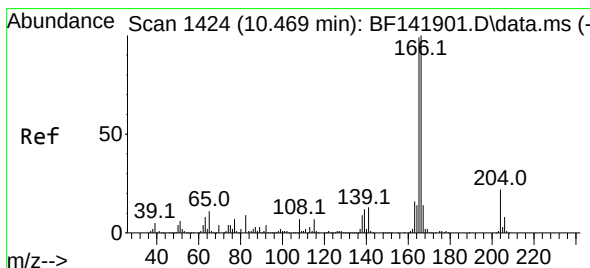
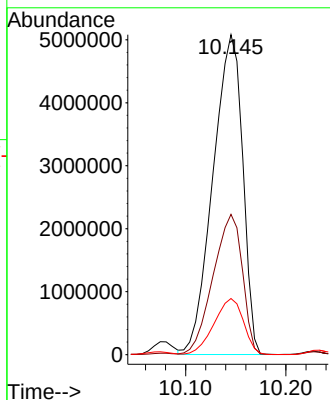
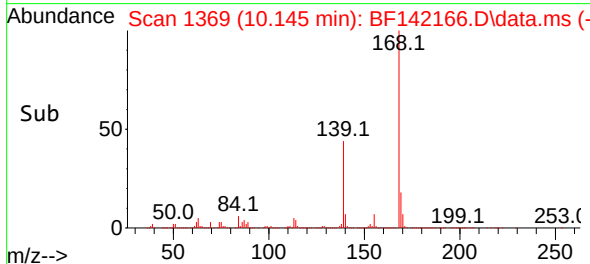
Instrument :
BNA_F
ClientSampleId :
RT3407



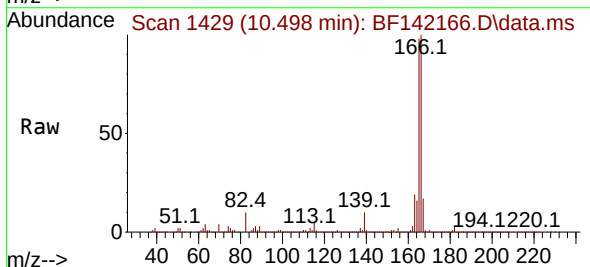
Tgt Ion:168 Resp:1045652
Ion Ratio Lower Upper
168 100
139 43.8 33.9 50.9
169 17.5 11.0 16.4

Manual Integrations
APPROVED

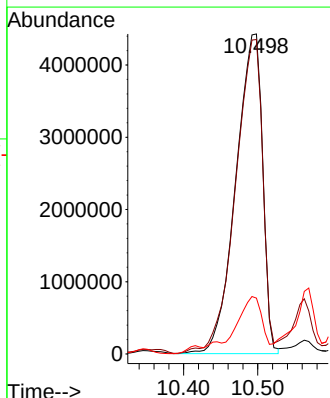
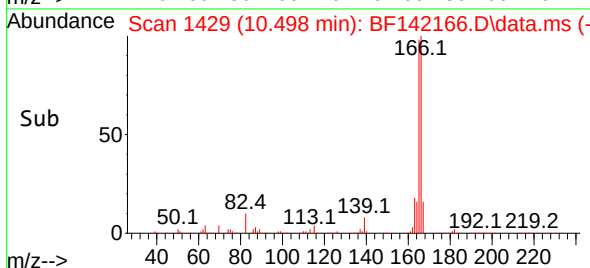
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

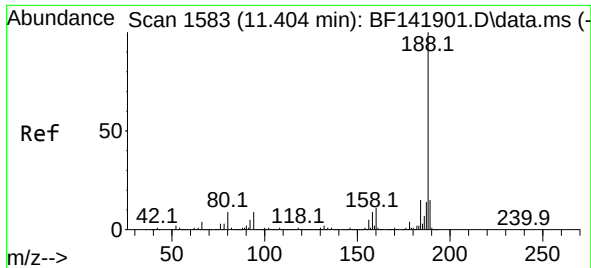


#58
Fluorene
Concen: 600.824 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.030 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03



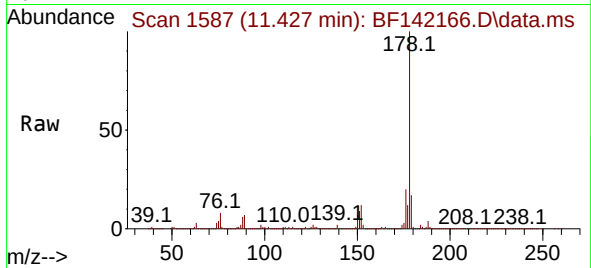
Tgt Ion:166 Resp:11104818
Ion Ratio Lower Upper
166 100
165 98.2 79.0 118.4
167 17.4 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 11427
Delta R.T. 0.023 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

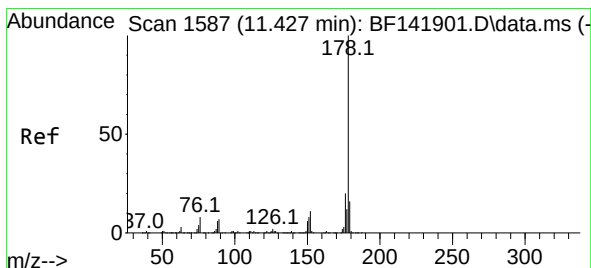
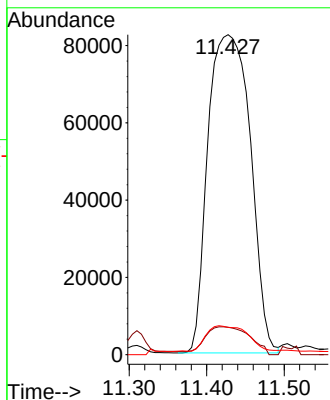
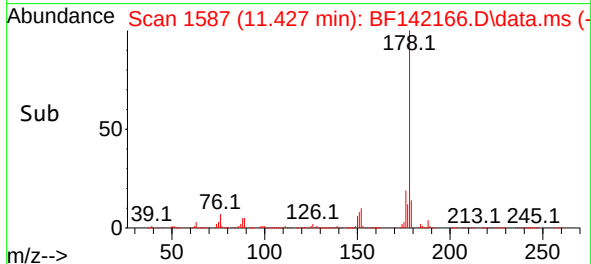
Instrument :
BNA_F
ClientSampleId :
RT3407



Tgt Ion:188 Resp: 313569
Ion Ratio Lower Upper
188 100
94 8.5 6.8 10.2
80 8.6 7.6 11.4

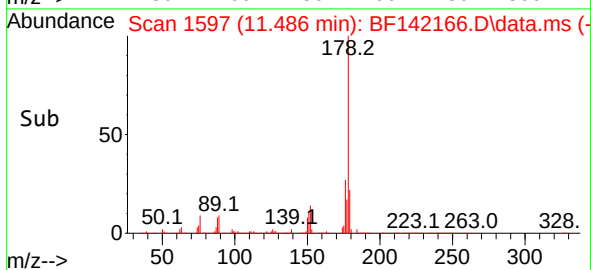
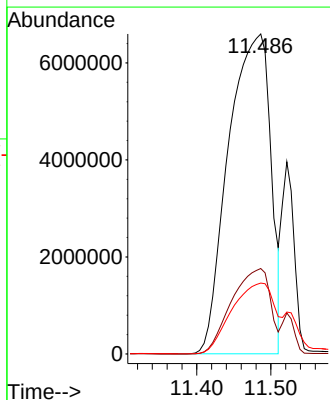
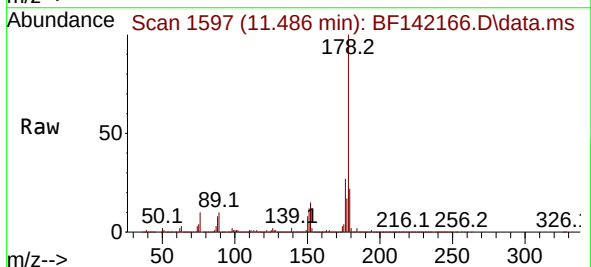
Manual Integrations
APPROVED

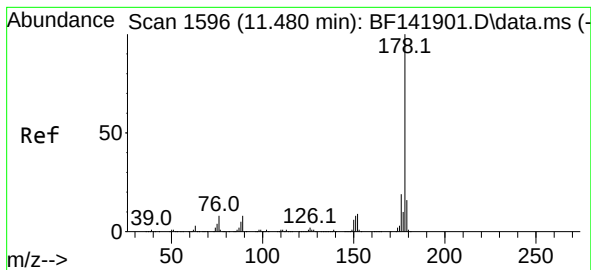
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#71
Phenanthrene
Concen: 1541.958 ng
RT: 11.486 min Scan# 1597
Delta R.T. 0.059 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

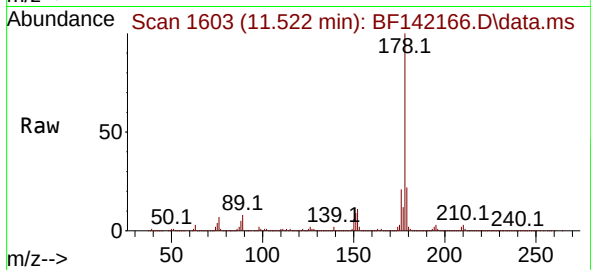
Tgt Ion:178 Resp:26115939
Ion Ratio Lower Upper
178 100
176 26.7 15.8 23.8#
179 22.2 12.6 19.0#





#72
 Anthracene
 Concen: 276.062 ng m
 RT: 11.522 min Scan# 1
 Delta R.T. 0.041 min
 Lab File: BF142166.D
 Acq: 28 Mar 2025 18:03

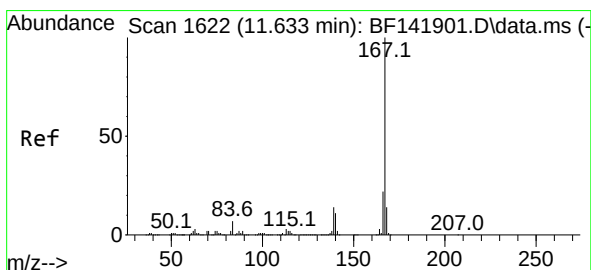
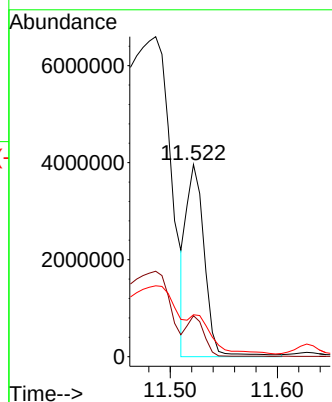
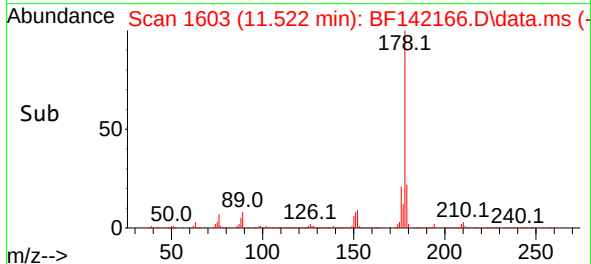
Instrument :
 BNA_F
 ClientSampleId :
 RT3407



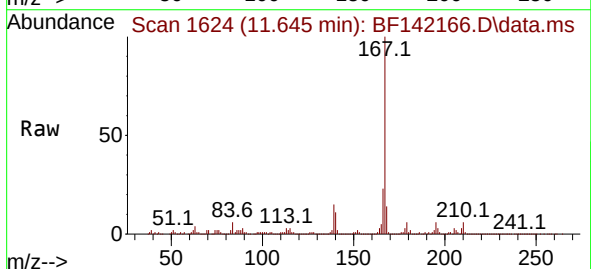
Tgt Ion:178 Resp: 4690880
 Ion Ratio Lower Upper
 178 100
 176 21.3 15.1 22.7
 179 21.9 12.6 19.0

Manual Integrations
 APPROVED

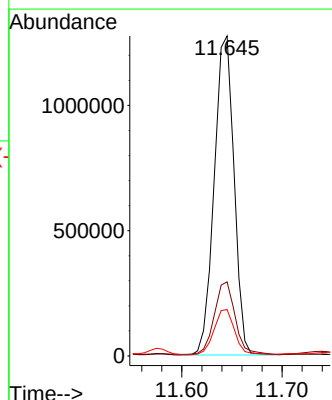
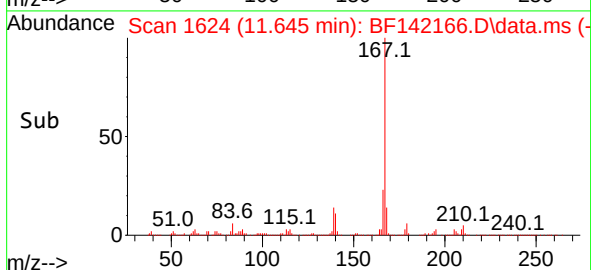
Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025

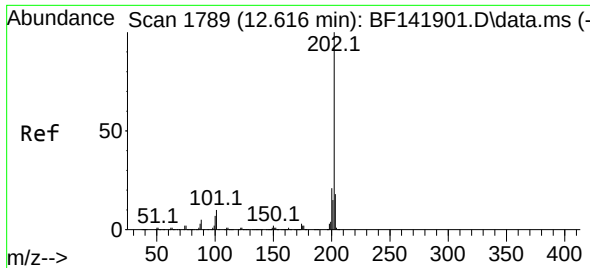


#73
 Carbazole
 Concen: 119.470 ng
 RT: 11.645 min Scan# 1624
 Delta R.T. 0.012 min
 Lab File: BF142166.D
 Acq: 28 Mar 2025 18:03



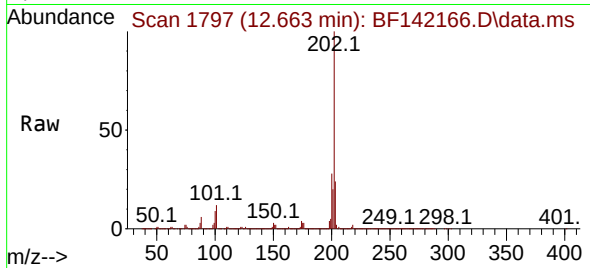
Tgt Ion:167 Resp: 1750734
 Ion Ratio Lower Upper
 167 100
 166 23.2 17.4 26.2
 139 14.5 11.0 16.6





#75
Fluoranthene
Concen: 1048.675 ng
RT: 12.663 min Scan# 11
Delta R.T. 0.047 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

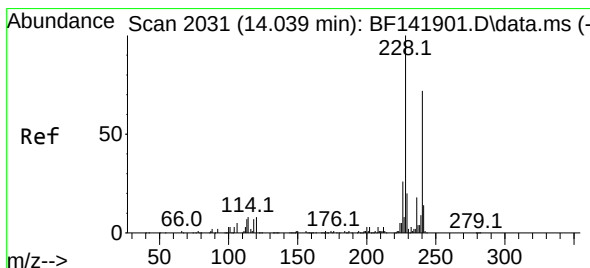
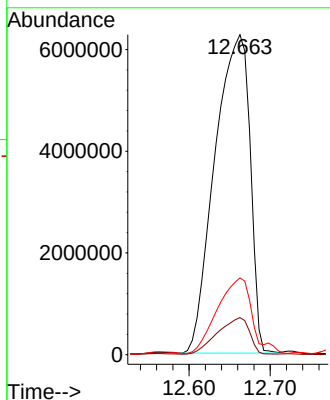
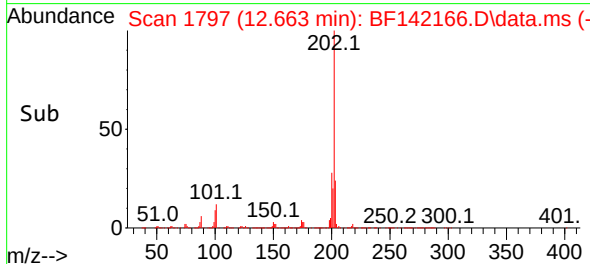
Instrument :
BNA_F
ClientSampleId :
RT3407



Tgt Ion:202 Resp:1884058
Ion Ratio Lower Upper
202 100
101 11.6 0.0 29.7
203 24.0 0.0 37.8

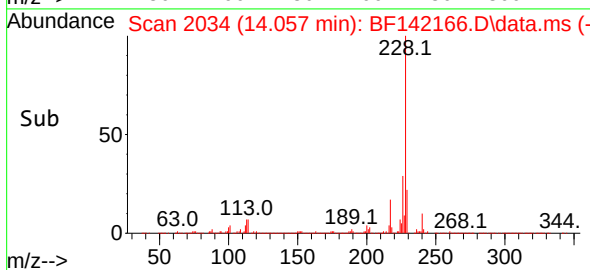
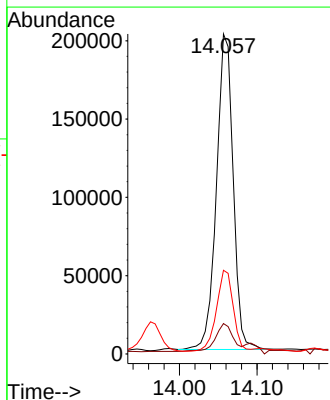
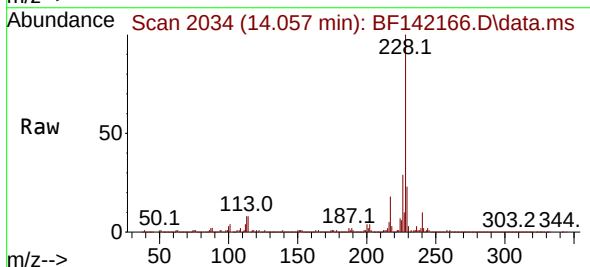
Manual Integrations
APPROVED

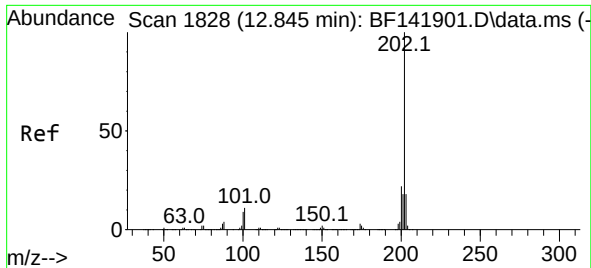
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.018 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

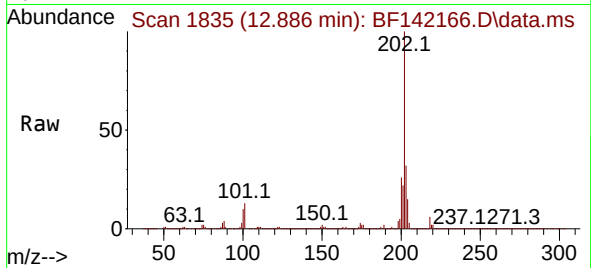
Tgt Ion:240 Resp: 302133
Ion Ratio Lower Upper
240 100
120 9.5 8.4 12.6
236 26.2 20.5 30.7





#78
Pyrene
Concen: 512.413 ng
RT: 12.886 min Scan# 1835
Delta R.T. 0.041 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

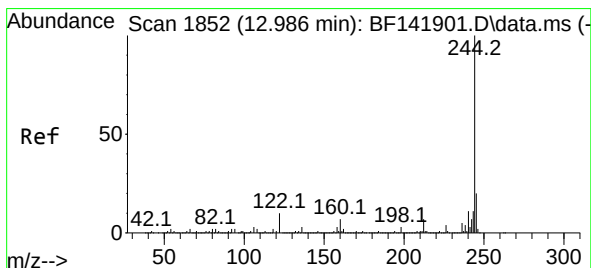
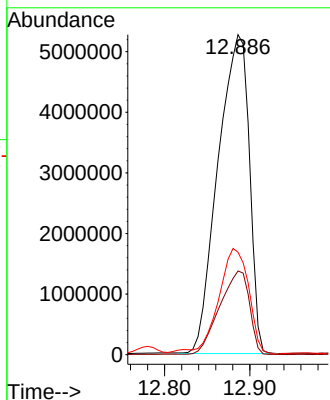
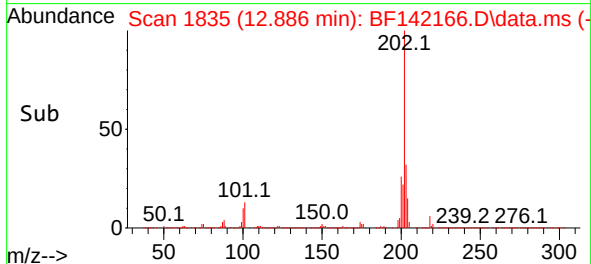
Instrument :
BNA_F
ClientSampleId :
RT3407



Tgt Ion:202 Resp:1339182
Ion Ratio Lower Upper
202 100
200 26.2 17.3 25.9
203 32.0 14.4 21.6

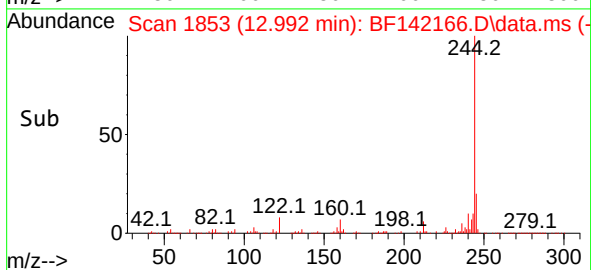
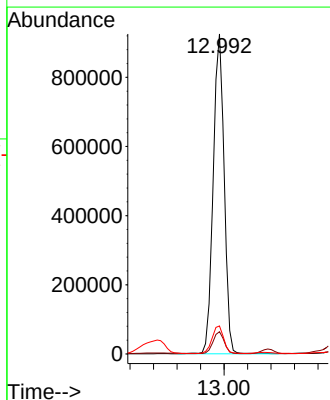
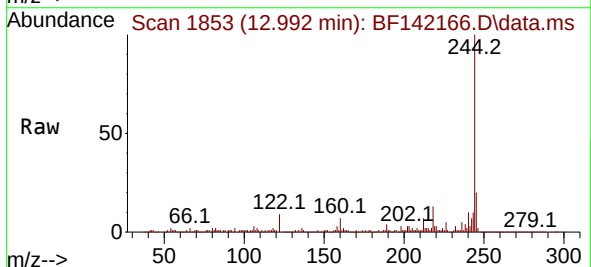
Manual Integrations
APPROVED

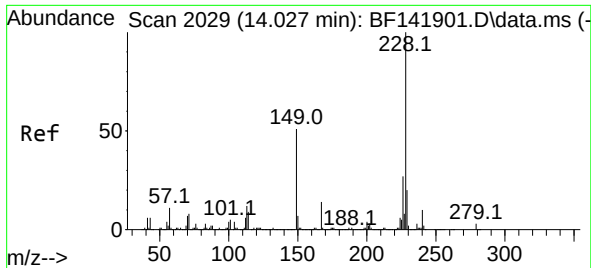
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#79
Terphenyl-d14
Concen: 58.532 ng
RT: 12.992 min Scan# 1853
Delta R.T. 0.006 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

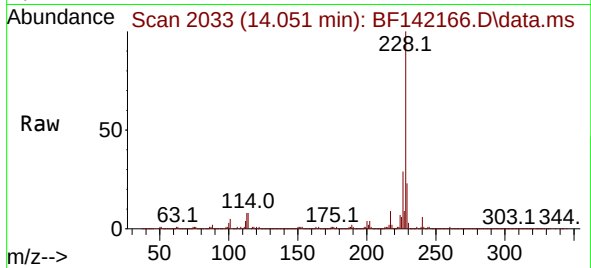
Tgt Ion:244 Resp: 1196145
Ion Ratio Lower Upper
244 100
212 7.0 6.0 9.0
122 8.7 7.7 11.5





#81
Benzo(a)anthracene
Concen: 255.370 ng
RT: 14.051 min Scan# 2029
Delta R.T. 0.024 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

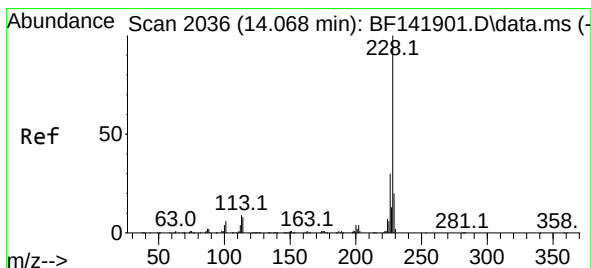
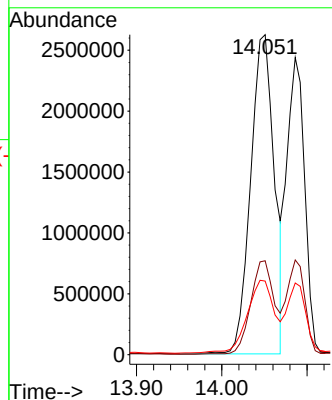
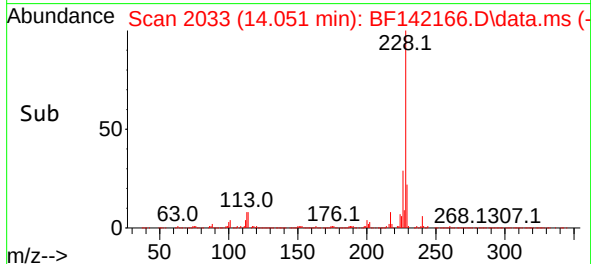
Instrument :
BNA_F
ClientSampleId :
RT3407



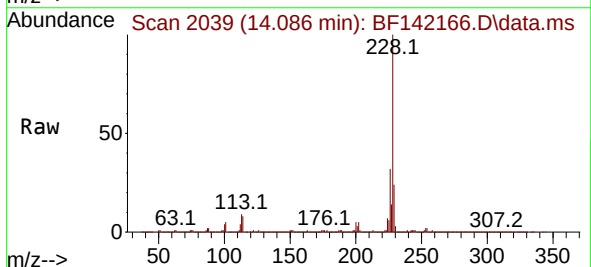
Tgt Ion:228 Resp: 506299
Ion Ratio Lower Upper
228 100
226 29.3 21.8 32.8
229 23.0 16.0 24.0

Manual Integrations
APPROVED

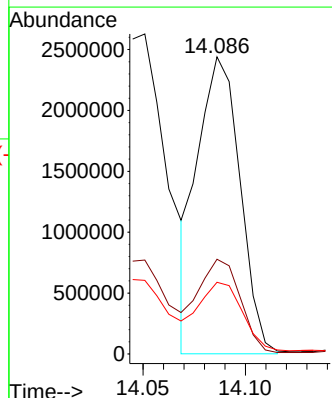
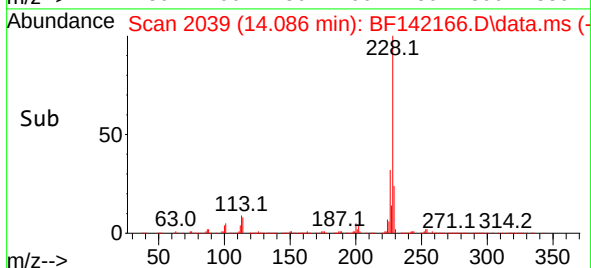
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

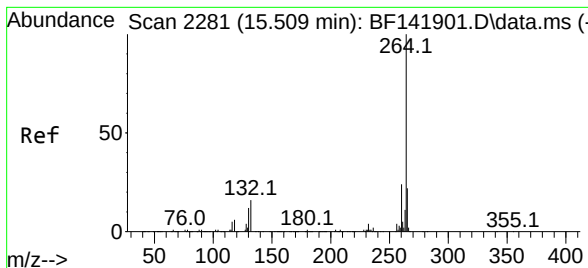


#83
Chrysene
Concen: 196.202 ng m
RT: 14.086 min Scan# 2039
Delta R.T. 0.018 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03



Tgt Ion:228 Resp: 3526075
Ion Ratio Lower Upper
228 100
226 31.9 24.1 36.1
229 24.1 15.7 23.5#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.521 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF142166.D

Acq: 28 Mar 2025 18:03

Instrument :

BNA_F

ClientSampleId :

RT3407

Tgt Ion:264 Resp: 26194

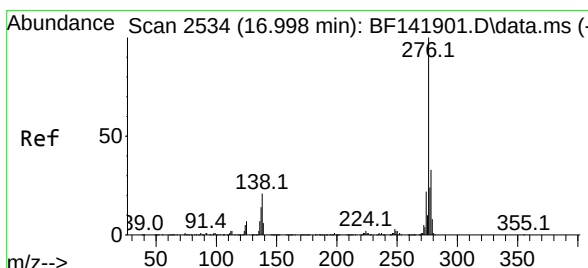
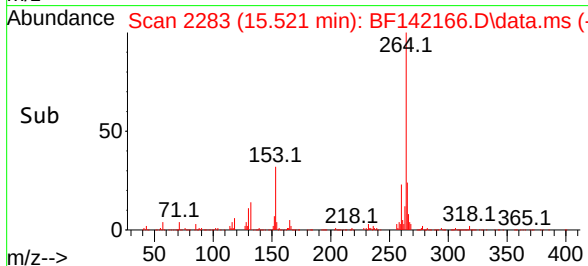
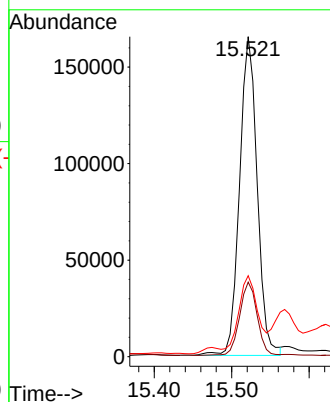
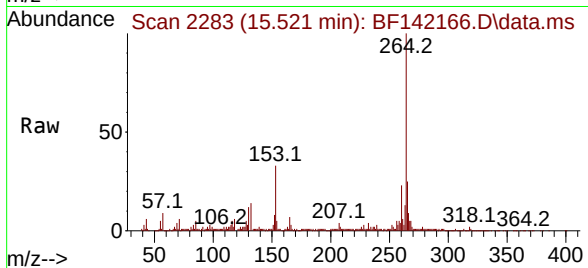
Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.1	28.7
265	25.3	17.5	26.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 19.547 ng

RT: 17.004 min Scan# 2535

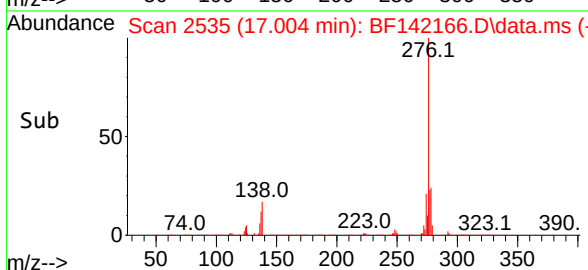
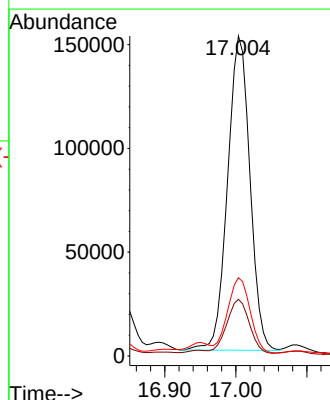
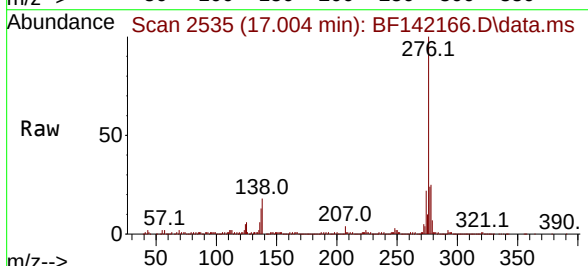
Delta R.T. 0.006 min

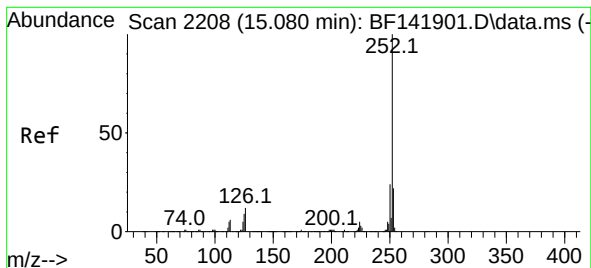
Lab File: BF142166.D

Acq: 28 Mar 2025 18:03

Tgt Ion:276 Resp: 331215

Ion	Ratio	Lower	Upper
276	100		
138	17.0	18.4	27.6
277	24.0	20.3	30.5





#88

Benzo(b)fluoranthene

Concen: 136.557 ng m

RT: 15.098 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF142166.D

Acq: 28 Mar 2025 18:03

Instrument :

BNA_F

ClientSampleId :

RT3407

Tgt Ion:252 Resp: 245154

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

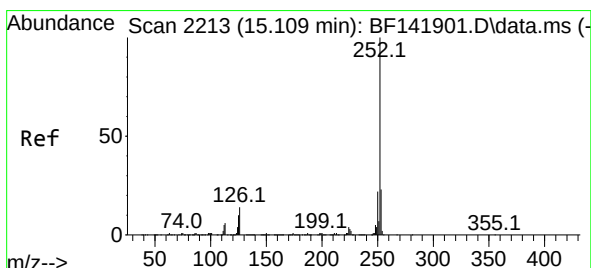
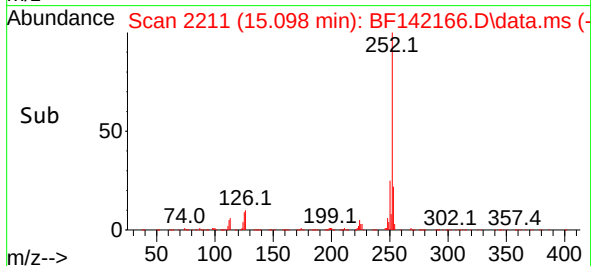
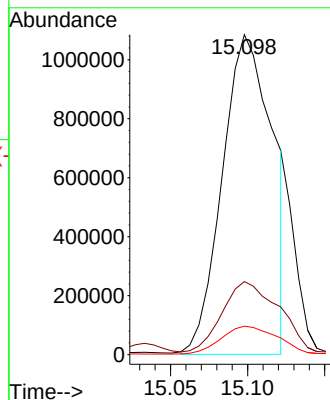
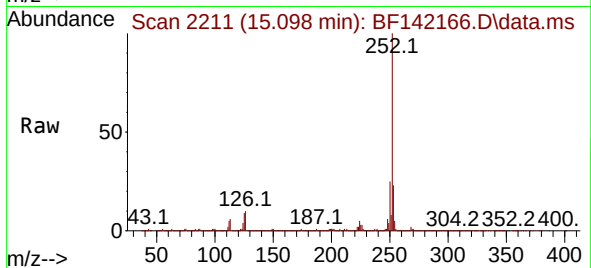
125 8.9 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025



#89

Benzo(k)fluoranthene

Concen: 20.365 ng m

RT: 15.121 min Scan# 2215

Delta R.T. 0.012 min

Lab File: BF142166.D

Acq: 28 Mar 2025 18:03

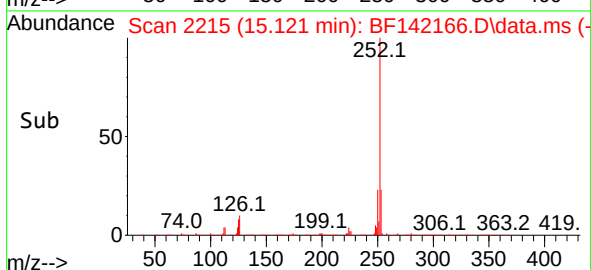
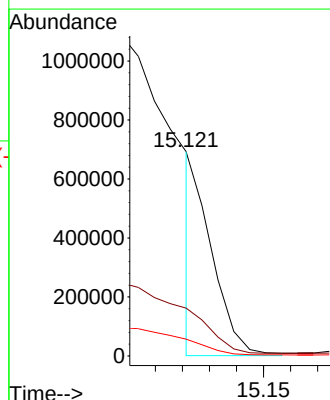
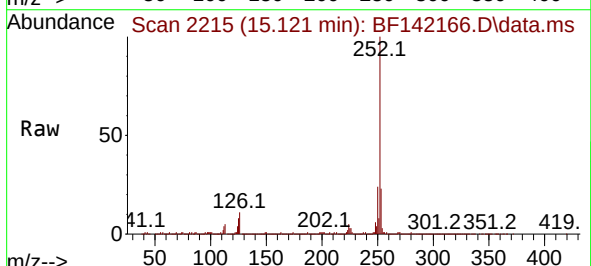
Tgt Ion:252 Resp: 312868

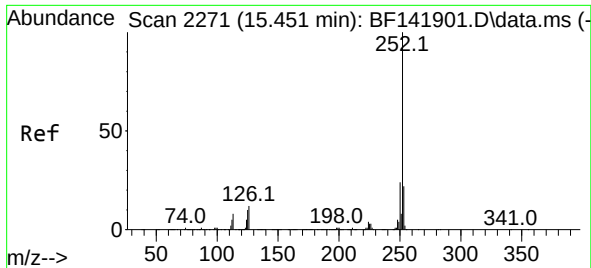
Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

125 8.3 7.2 10.8





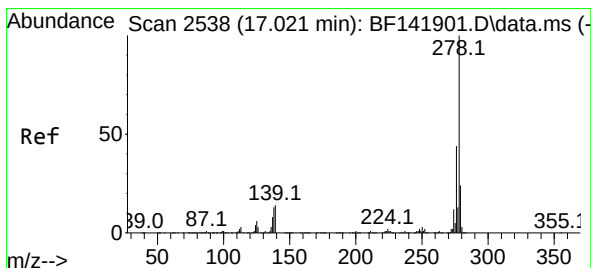
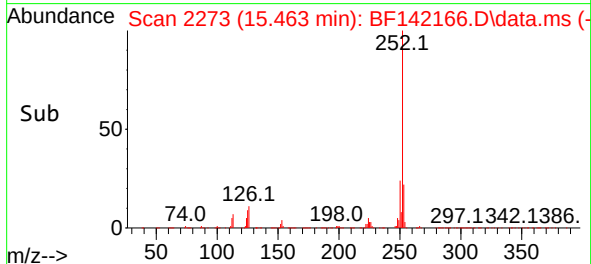
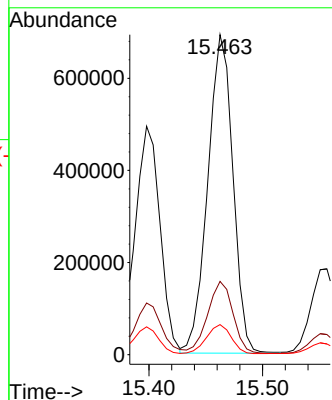
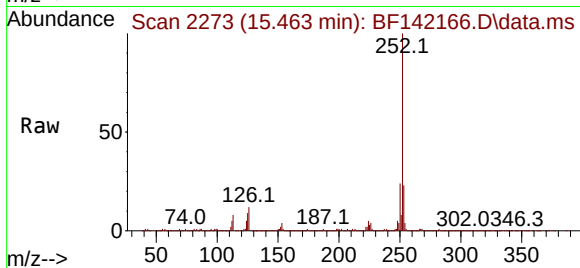
#90
Benzo(a)pyrene
Concen: 75.768 ng
RT: 15.463 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

Instrument :
BNA_F
ClientSampleId :
RT3407

Tgt Ion:252 Resp: 106432
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.0
125 9.4 7.8 11.8

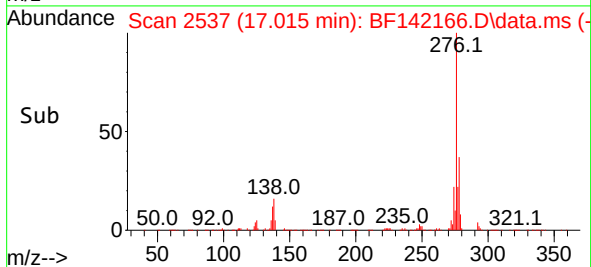
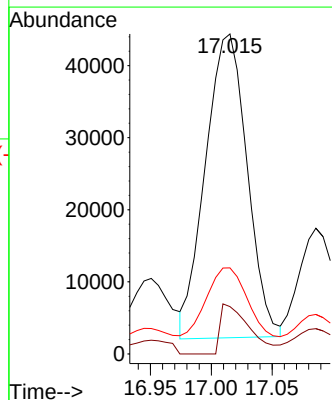
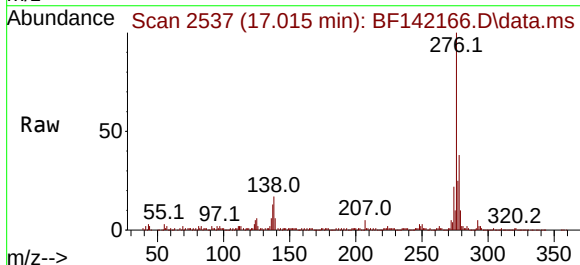
Manual Integrations
APPROVED

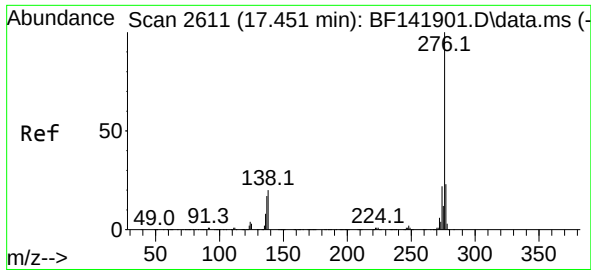
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#91
Dibenzo(a,h)anthracene
Concen: 7.183 ng
RT: 17.015 min Scan# 2537
Delta R.T. -0.006 min
Lab File: BF142166.D
Acq: 28 Mar 2025 18:03

Tgt Ion:278 Resp: 100426
Ion Ratio Lower Upper
278 100
139 14.8 11.4 17.2
279 26.9 18.8 28.2





#92

Benzo(g,h,i)perylene

Concen: 18.570 ng

RT: 17.456 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF142166.D

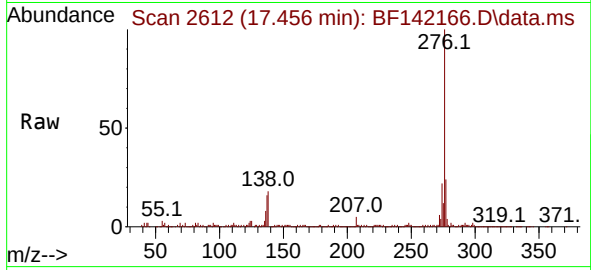
Acq: 28 Mar 2025 18:03

Instrument :

BNA_F

ClientSampleId :

RT3407



Tgt Ion:276 Resp: 256558

Ion Ratio Lower Upper

276 100

277 23.7 18.7 28.1

138 17.6 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025

