

Data Path : T:\svoasrv\HPCHEM1\BNA_F\Data\BF032425\
 Data File : BF142054.D
 Acq On : 24 Mar 2025 14:55
 Operator : RC/JU
 Sample : Q1619-13DL2 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-5DL2

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/25/2025
 Supervised By :Jagrut Upadhyay 03/25/2025

Quant Time: Mar 24 15:17:23 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	6.875	152	134945	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	531259	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	289167	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	449583	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	253135	20.000	ng	0.00
86) Perylene-d12	15.504	264	317814	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	59263	7.329	ng	-0.01
7) Phenol-d6	6.492	99	89874	8.730	ng	-0.01
23) Nitrobenzene-d5	7.434	82	57453	6.086	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	12166	3.316	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	131185	6.899	ng	-0.01
79) Terphenyl-d14	12.974	244	102159	5.967	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.175	128	80749	2.959	ng	99
52) Acenaphthene	9.939	154	101882	5.966	ng	99
55) Dibenzofuran	10.116	168	109939	4.505	ng	95
58) Fluorene	10.457	166	108089	5.744	ng	100
71) Phenanthrene	11.422	178	1214523	50.015	ng	99
72) Anthracene	11.469	178	303953	12.476	ng	99
73) Carbazole	11.622	167	100395	4.778	ng	98
75) Fluoranthene	12.610	202	1005973	39.053	ng	99
78) Pyrene	12.839	202	783901	35.800	ng	99
81) Benzo(a)anthracene	14.021	228	287869	17.330	ng	99
83) Chrysene	14.057	228	235419	15.635	ng	96
87) Indeno(1,2,3-cd)pyrene	16.986	276	155982m	7.587	ng	
88) Benzo(b)fluoranthene	15.074	252	361518m	16.597	ng	
89) Benzo(k)fluoranthene	15.092	252	112835m	6.053	ng	
90) Benzo(a)pyrene	15.439	252	245308	14.393	ng	97
92) Benzo(g,h,i)perylene	17.433	276	131795	7.862	ng	99

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

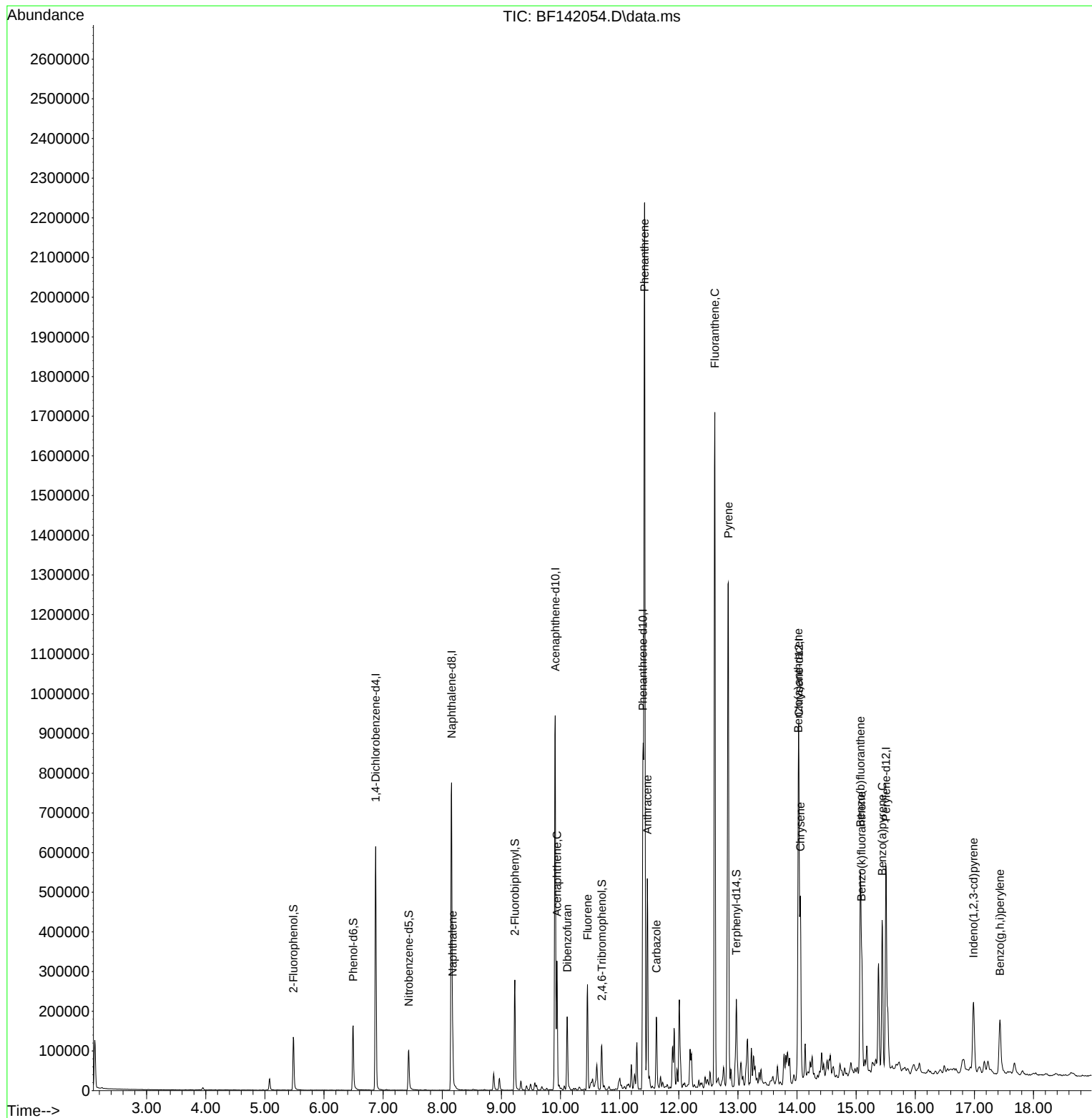
Data Path : T:\svoasrv\HPCHEM1\BNA_F\Data\BF032425\
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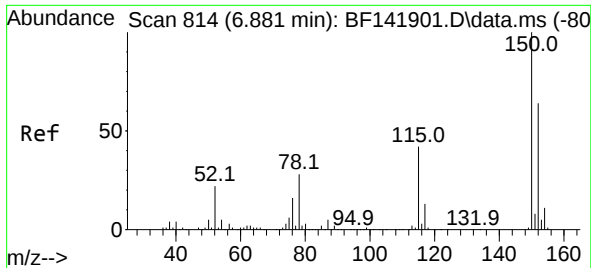
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Quant Time: Mar 24 15:17:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
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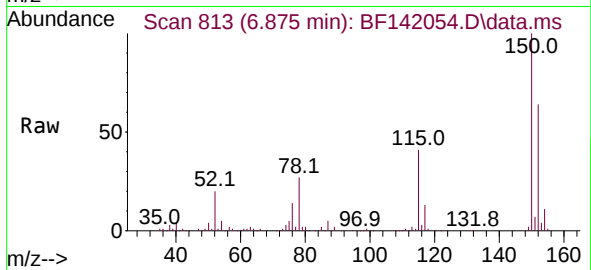
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

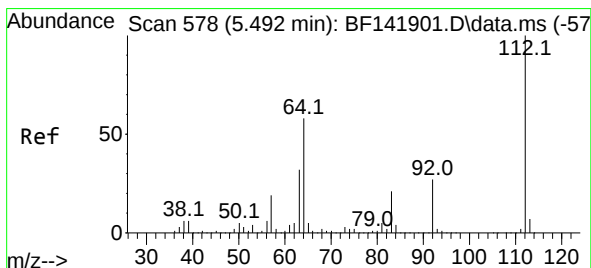
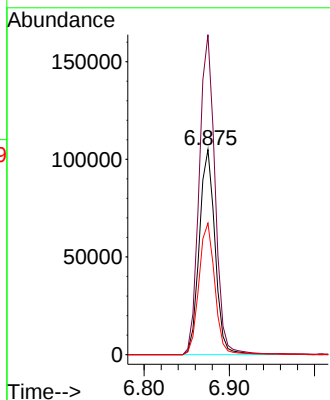
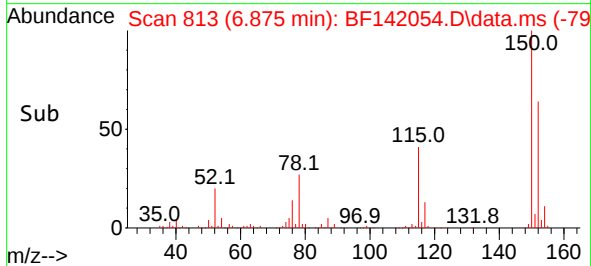
Instrument :
BNA_F
ClientSampleId :
TP-5DL2



Tgt Ion:152 Resp: 134945
Ion Ratio Lower Upper
152 100
150 156.0 127.4 191.2
115 64.1 51.9 77.9

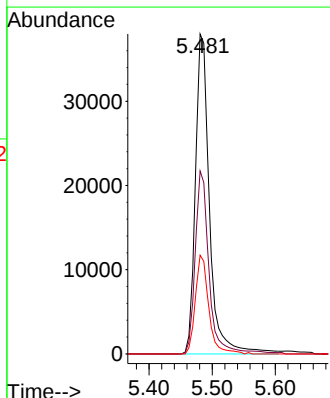
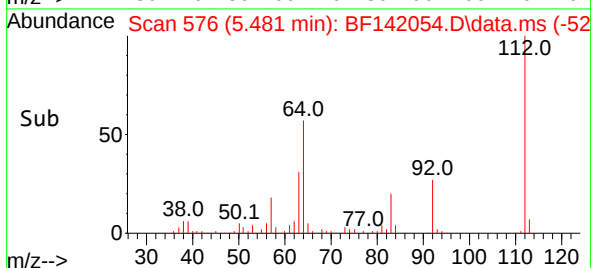
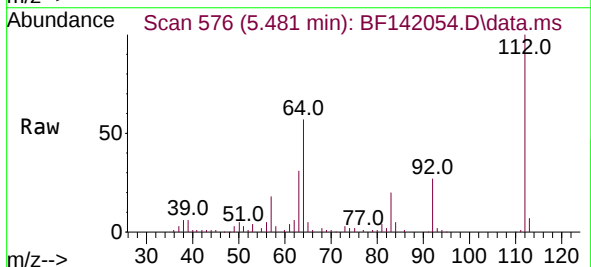
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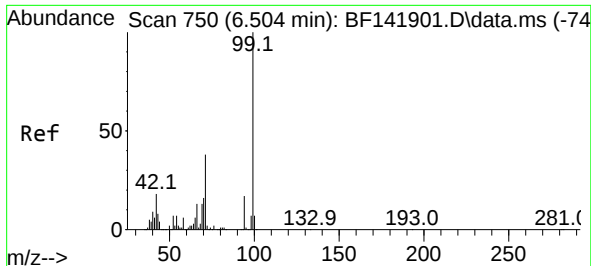
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#5
2-Fluorophenol
Concen: 7.329 ng
RT: 5.481 min Scan# 576
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

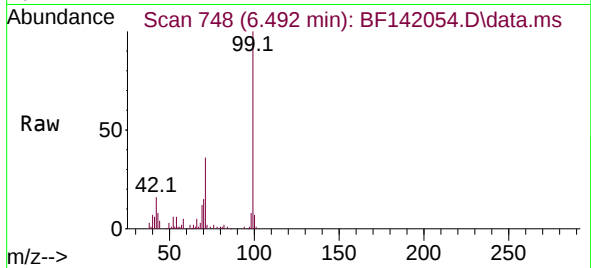
Tgt Ion:112 Resp: 59263
Ion Ratio Lower Upper
112 100
64 57.2 46.5 69.7
63 30.8 25.4 38.2





#7
Phenol-d6
Concen: 8.730 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

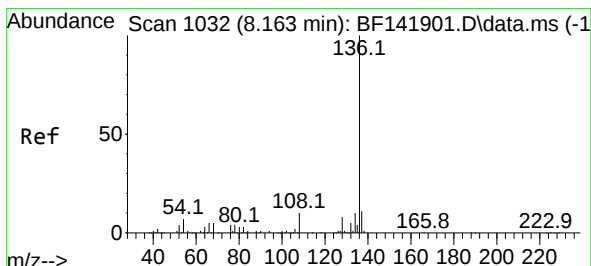
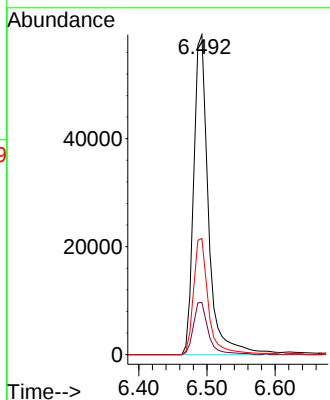
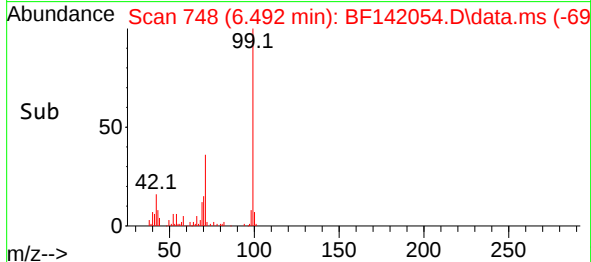
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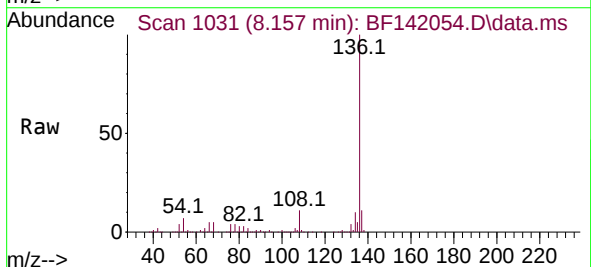
Tgt Ion: 99 Resp: 89874
Ion Ratio Lower Upper
99 100
42 16.3 14.6 21.8
71 36.3 30.8 46.2

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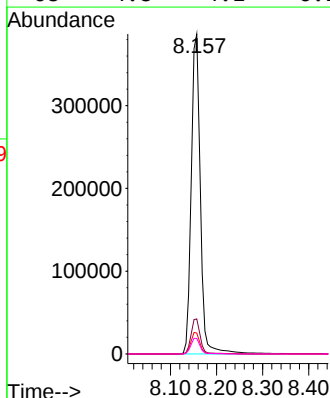
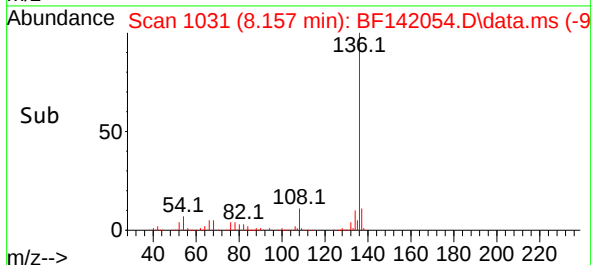
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025

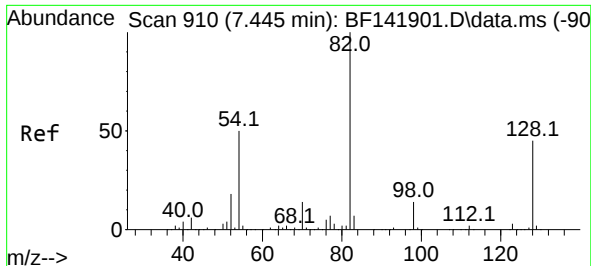


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55



Tgt Ion:136 Resp: 531259
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 6.5 5.8 8.8
68 4.8 4.1 6.1





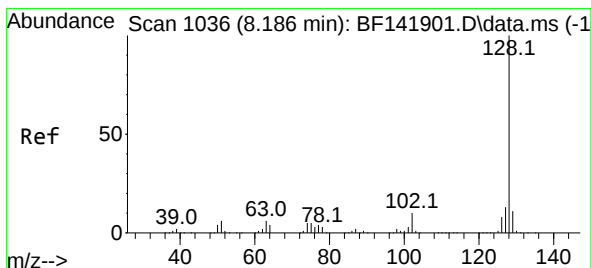
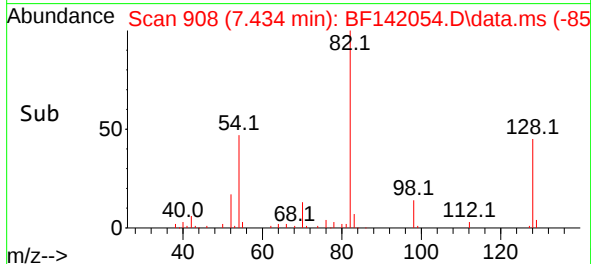
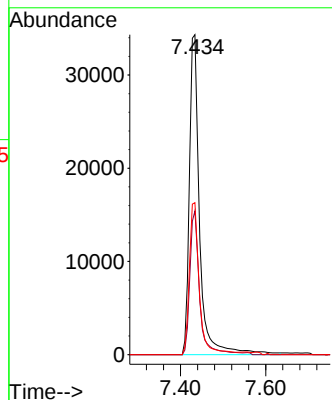
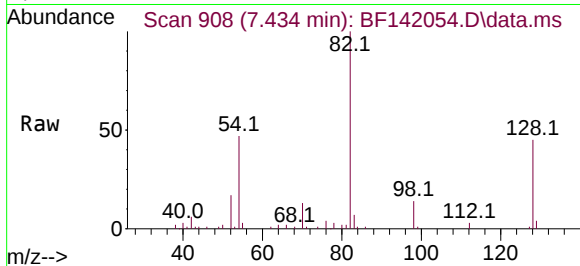
#23
Nitrobenzene-d5
Concen: 6.086 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Instrument :
BNA_F
ClientSampleId :
TP-5DL2

Tgt Ion: 82 Resp: 5745
Ion Ratio Lower Upper
82 100
128 44.9 36.0 54.0
54 47.5 39.6 59.4

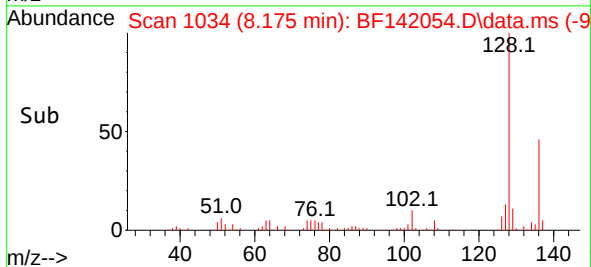
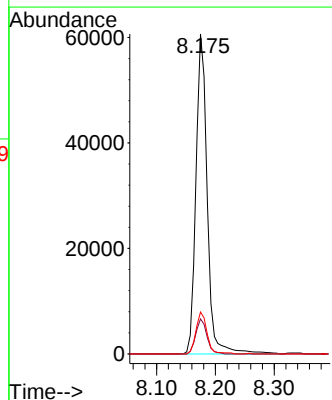
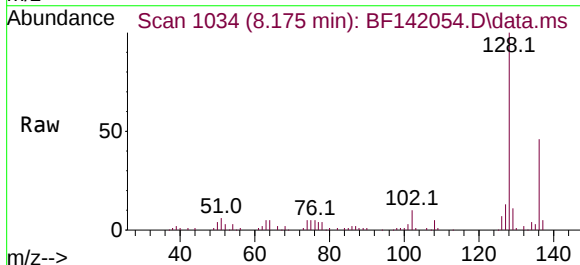
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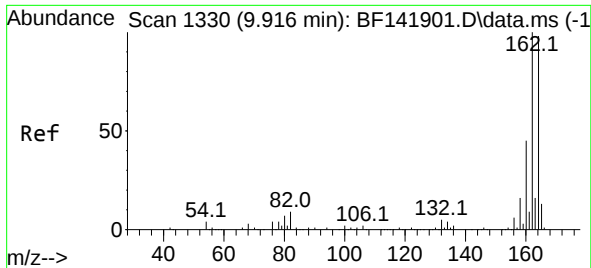
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#31
Naphthalene
Concen: 2.959 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

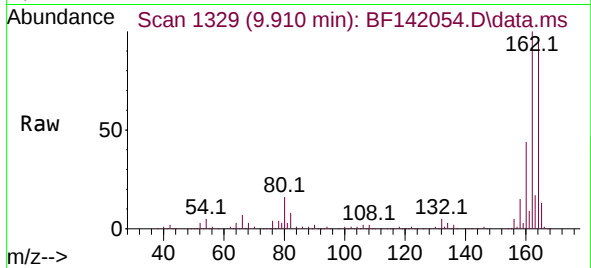
Tgt Ion:128 Resp: 80749
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 13.1 10.8 16.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

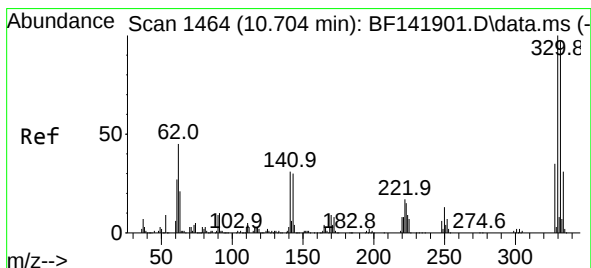
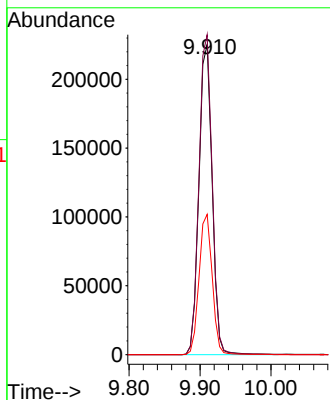
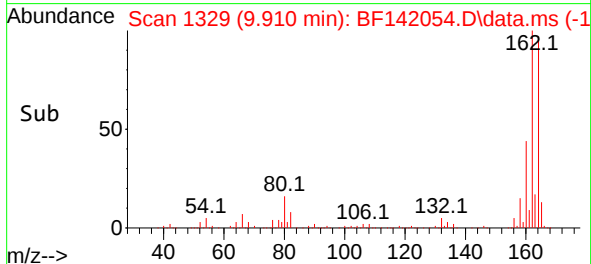
Instrument :
BNA_F
ClientSampleId :
TP-5DL2



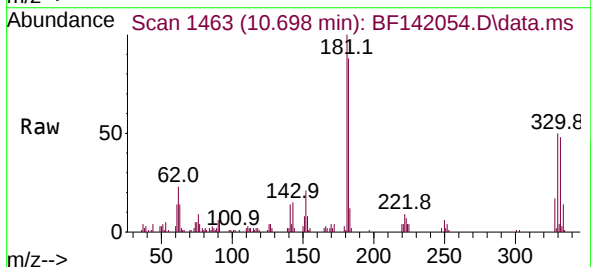
Tgt Ion:164 Resp: 28916
Ion Ratio Lower Upper
164 100
162 103.2 81.8 122.6
160 45.2 36.7 55.1

Manual Integrations
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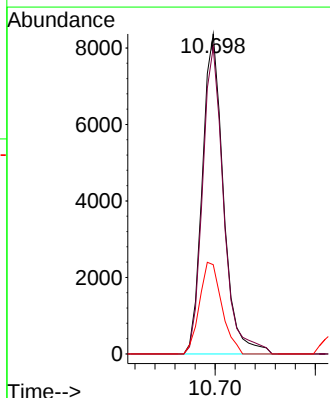
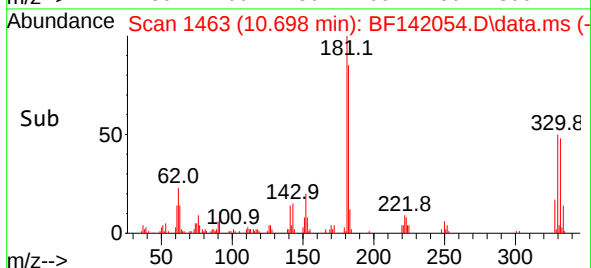
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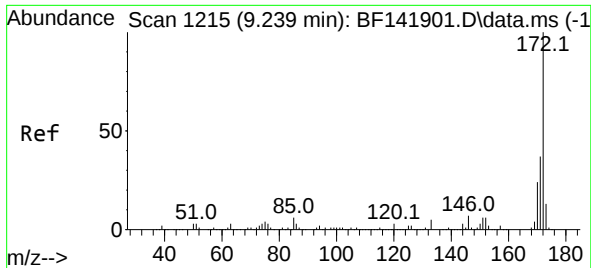


#42
2,4,6-Tribromophenol
Concen: 3.316 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55



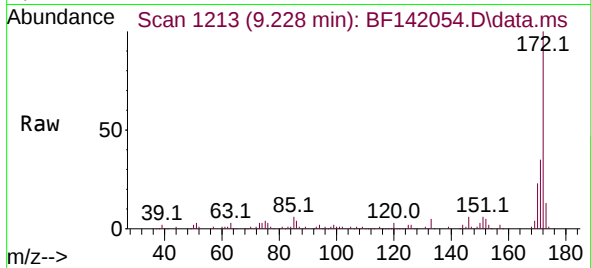
Tgt Ion:330 Resp: 12166
Ion Ratio Lower Upper
330 100
332 95.7 77.6 116.4
141 30.3 24.7 37.1





#45
2-Fluorobiphenyl
Concen: 6.899 ng
RT: 9.228 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

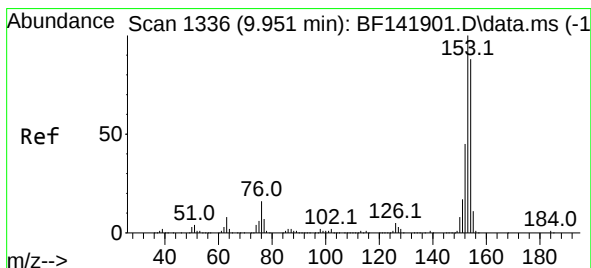
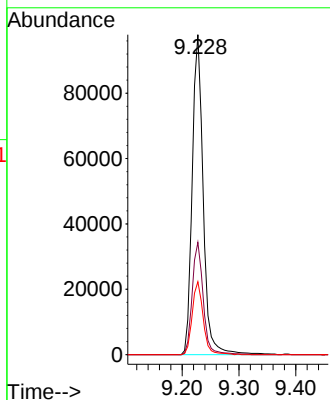
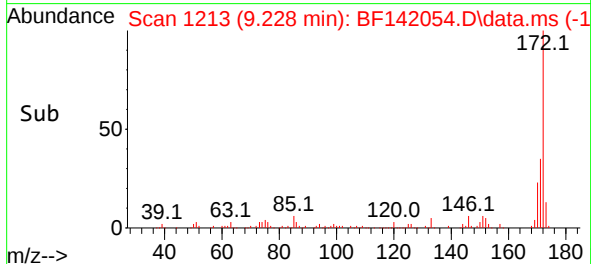
Instrument :
BNA_F
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TP-5DL2



Tgt Ion:172 Resp: 131185
Ion Ratio Lower Upper
172 100
171 35.1 29.3 43.9
170 22.8 19.4 29.0

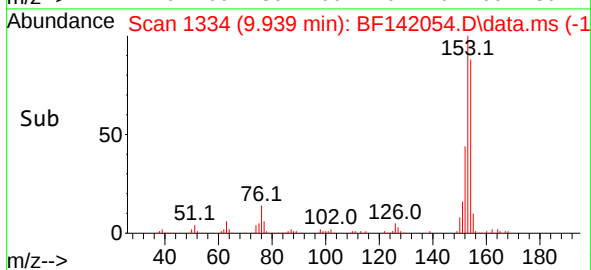
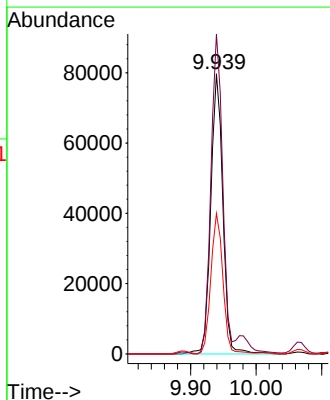
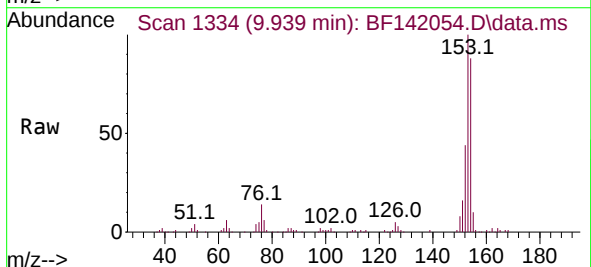
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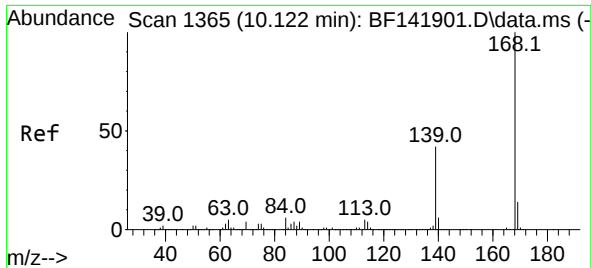
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#52
Acenaphthene
Concen: 5.966 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

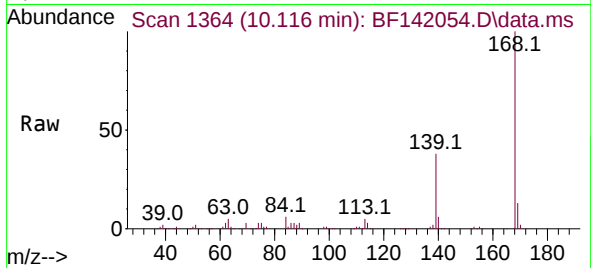
Tgt Ion:154 Resp: 101882
Ion Ratio Lower Upper
154 100
153 114.3 90.7 136.1
152 50.1 41.1 61.7





#55
Dibenzenofuran
Concen: 4.505 ng
RT: 10.116 min Scan# 1365
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

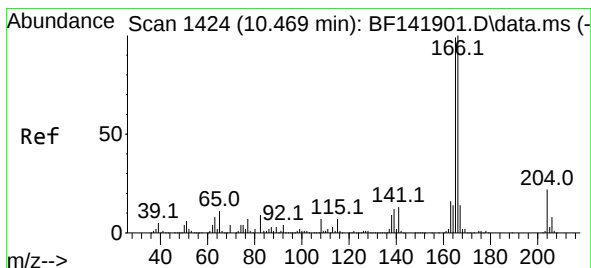
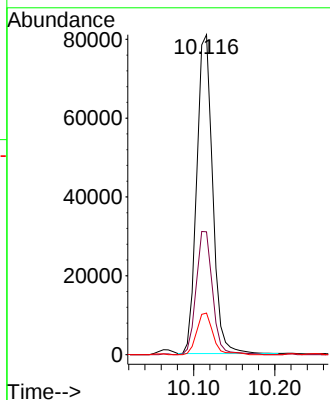
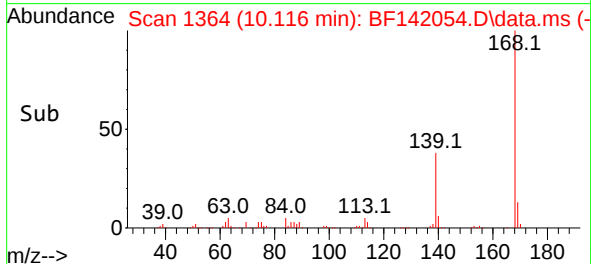
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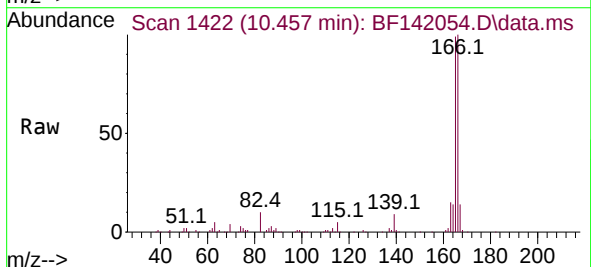
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Ion Ratio Lower Upper
168 100
139 38.4 33.9 50.9
169 13.0 11.0 16.4

Manual Integrations
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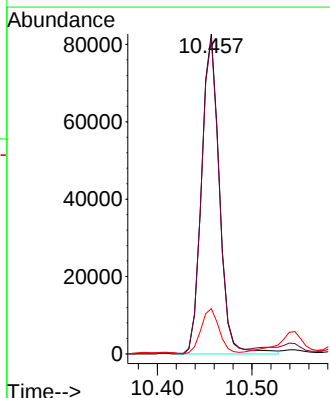
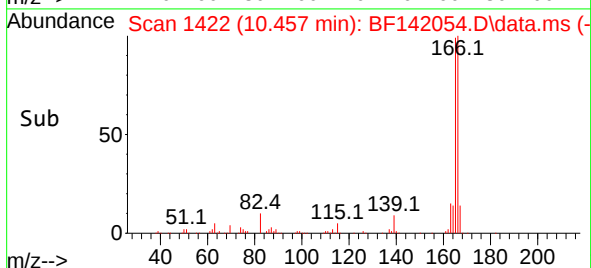
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025

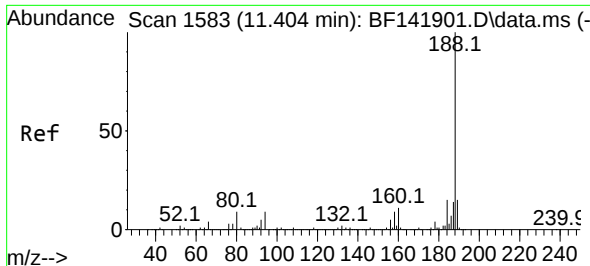


#58
Fluorene
Concen: 5.744 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55



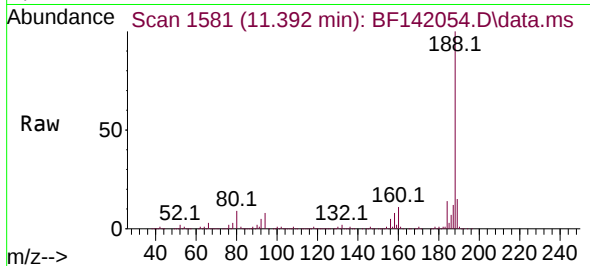
Tgt Ion:166 Resp: 108089
Ion Ratio Lower Upper
166 100
165 98.6 79.0 118.4
167 14.1 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1583
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

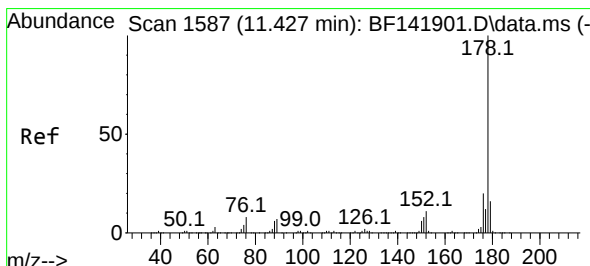
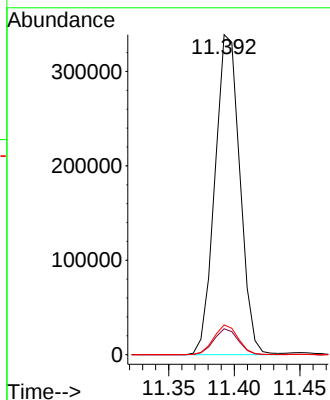
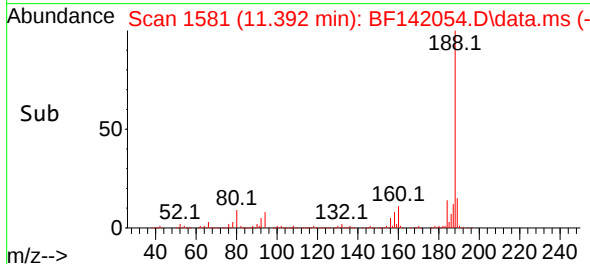
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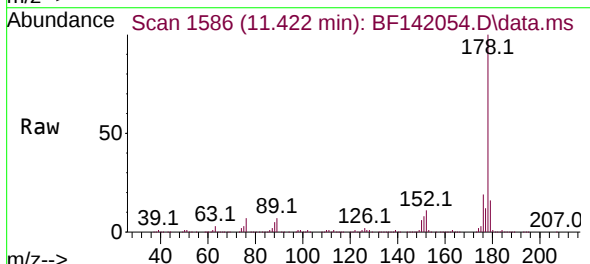
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Ion Ratio Lower Upper
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80 9.3 7.6 11.4

Manual Integrations
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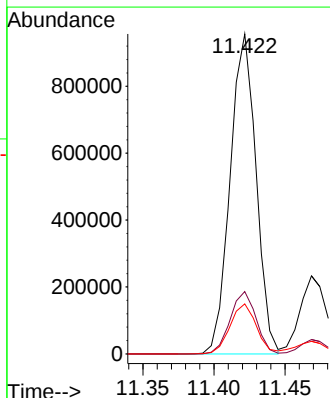
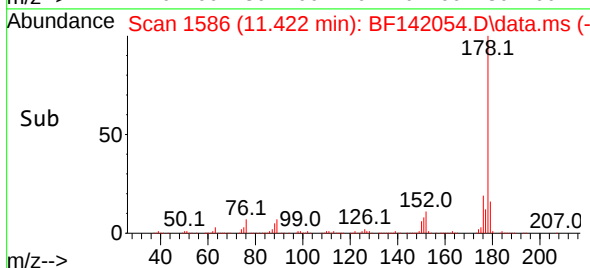
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025

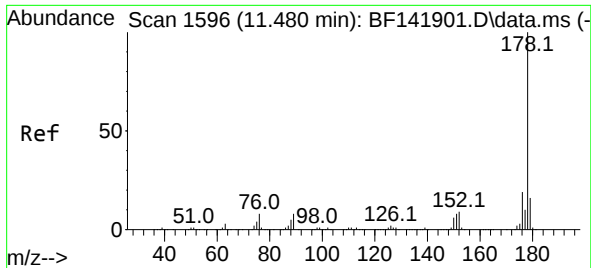


#71
Phenanthrene
Concen: 50.015 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55



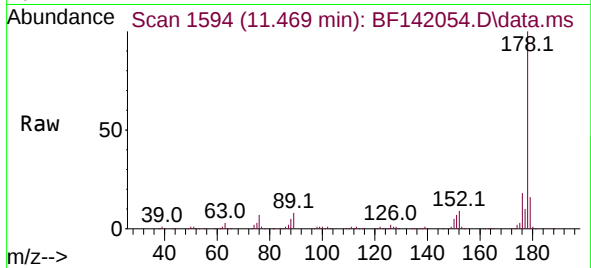
Tgt Ion:178 Resp: 1214523
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.6 12.6 19.0





#72
 Anthracene
 Concen: 12.476 ng
 RT: 11.469 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF142054.D
 Acq: 24 Mar 2025 14:55

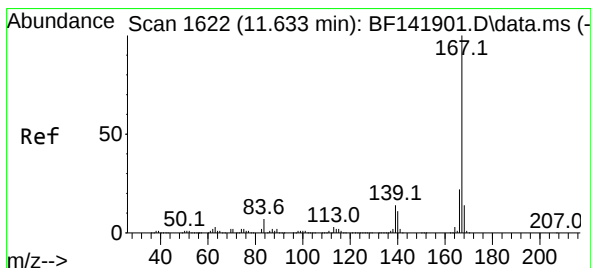
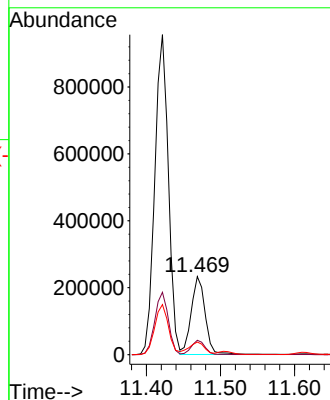
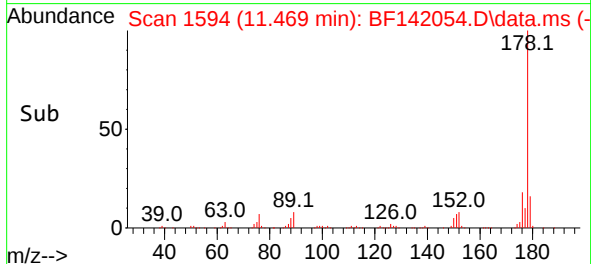
Instrument :
 BNA_F
 ClientSampleId :
 TP-5DL2



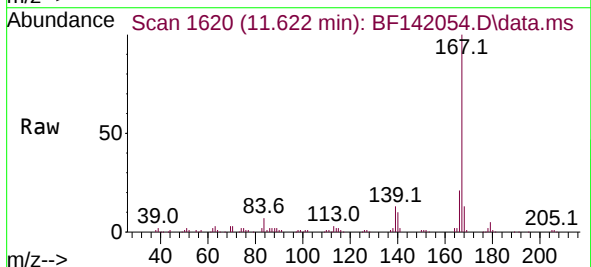
Tgt Ion:178 Resp: 303953
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.1 22.7
 179 16.1 12.6 19.0

Manual Integrations
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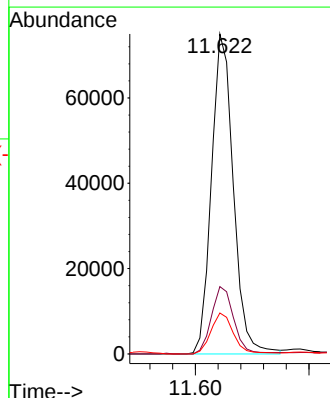
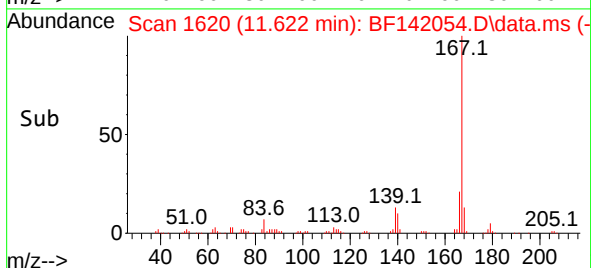
Reviewed By :Anahy Claudio 03/25/2025
 Supervised By :Jagrut Upadhyay 03/25/2025

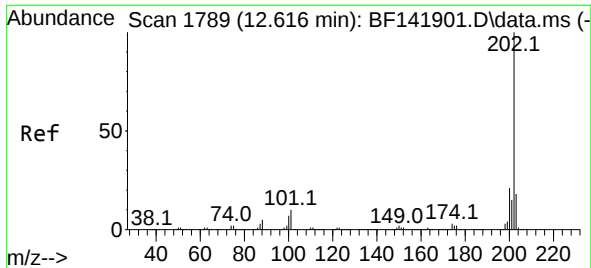


#73
 Carbazole
 Concen: 4.778 ng
 RT: 11.622 min Scan# 1620
 Delta R.T. -0.012 min
 Lab File: BF142054.D
 Acq: 24 Mar 2025 14:55



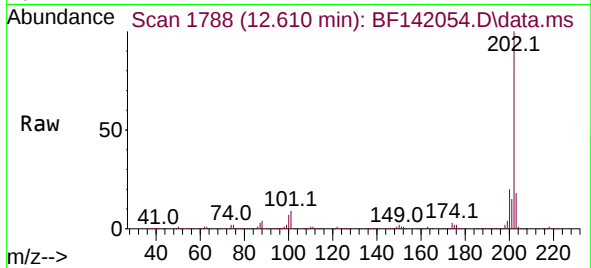
Tgt Ion:167 Resp: 100395
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.4 26.2
 139 12.8 11.0 16.6





#75
Fluoranthene
Concen: 39.053 ng
RT: 12.610 min Scan# 1789
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

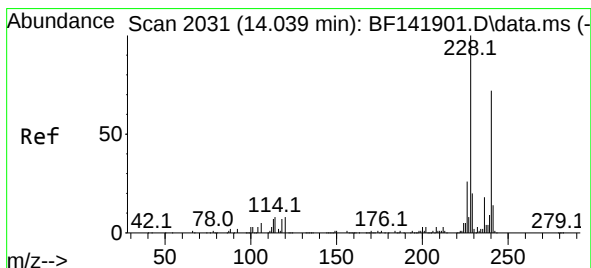
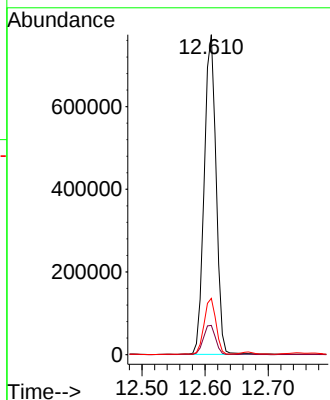
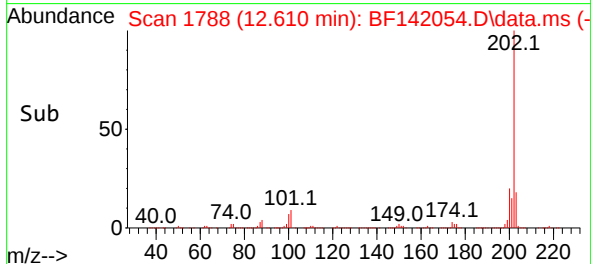
Instrument :
BNA_F
ClientSampleId :
TP-5DL2



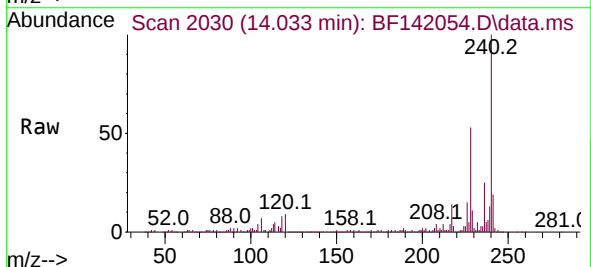
Tgt Ion:202 Resp: 1005973
Ion Ratio Lower Upper
202 100
101 9.1 0.0 29.7
203 17.6 0.0 37.8

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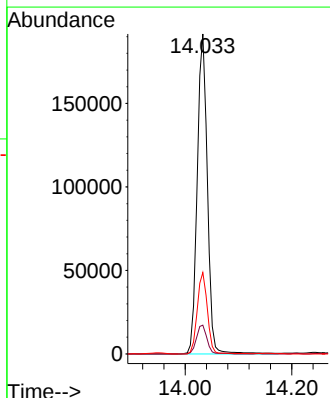
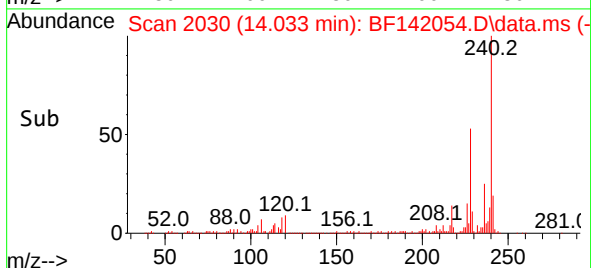
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025

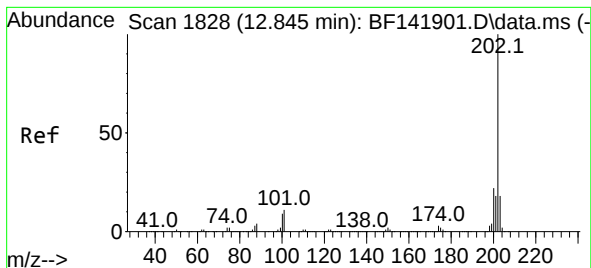


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55



Tgt Ion:240 Resp: 253135
Ion Ratio Lower Upper
240 100
120 9.0 8.4 12.6
236 25.4 20.5 30.7





#78

Pyrene

Concen: 35.800 ng

RT: 12.839 min Scan# 1827

Delta R.T. -0.006 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :

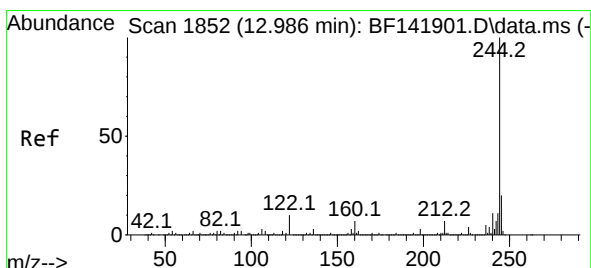
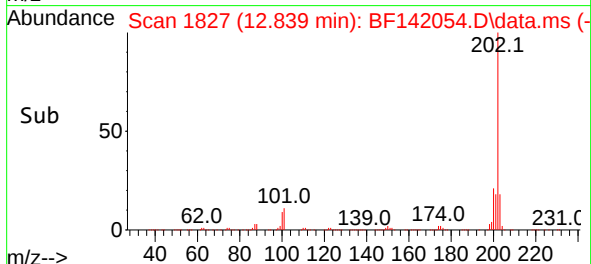
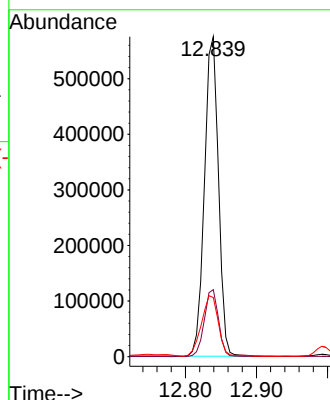
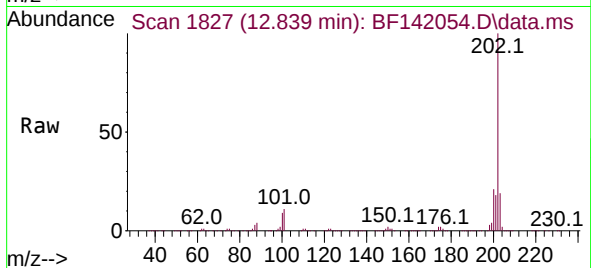
TP-5DL2

Tgt Ion:202 Resp: 783901
 Ion Ratio Lower Upper
 202 100
 200 20.9 17.3 25.9
 203 18.5 14.4 21.6

Manual Integrations

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 Supervised By :Jagrut Upadhyay 03/25/2025



#79

Terphenyl-d14

Concen: 5.967 ng

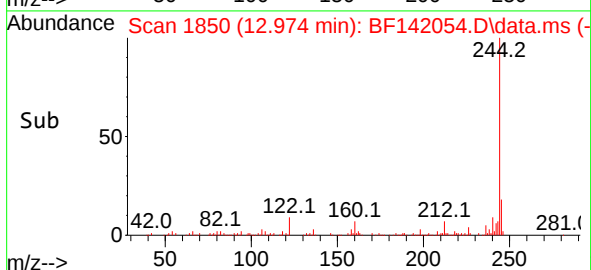
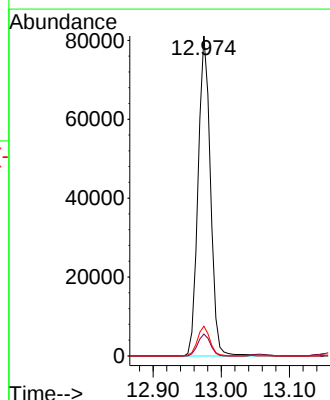
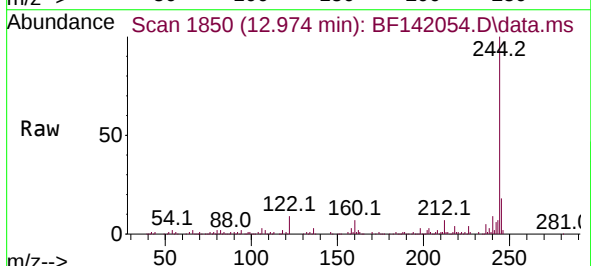
RT: 12.974 min Scan# 1850

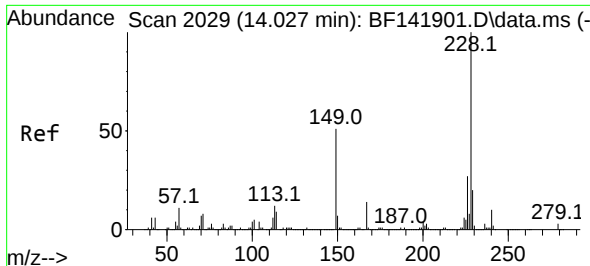
Delta R.T. -0.012 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

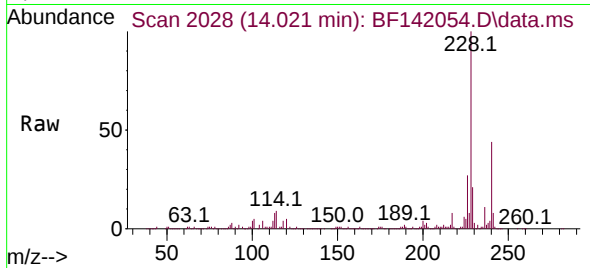
Tgt Ion:244 Resp: 102159
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.0 9.0
 122 9.3 7.7 11.5





#81
Benzo(a)anthracene
Concen: 17.330 ng
RT: 14.021 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

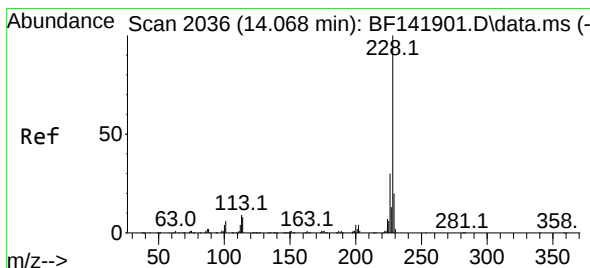
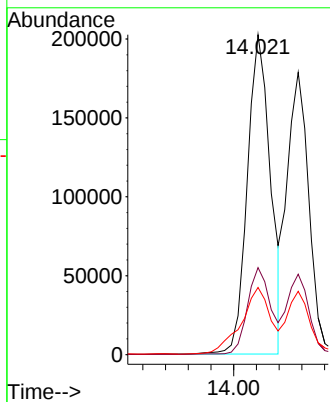
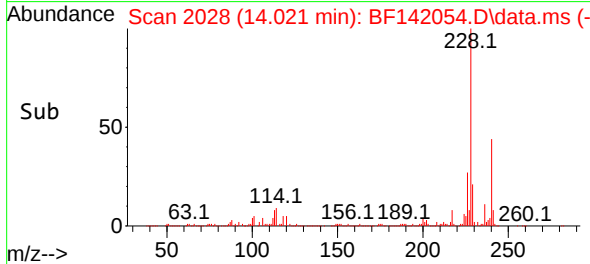
Instrument :
BNA_F
ClientSampleId :
TP-5DL2



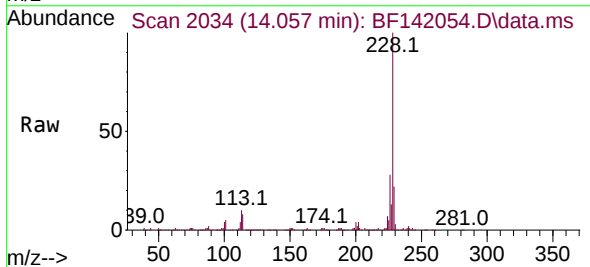
Tgt Ion:228 Resp: 287869
Ion Ratio Lower Upper
228 100
226 27.2 21.8 32.8
229 21.0 16.0 24.0

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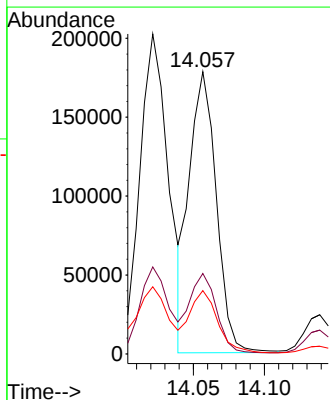
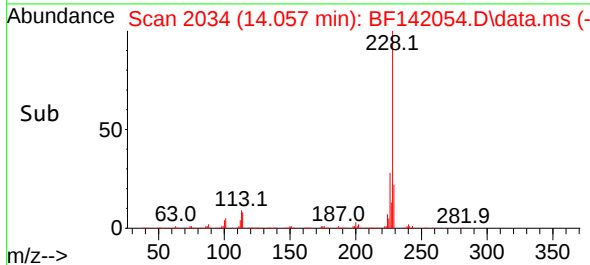
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025

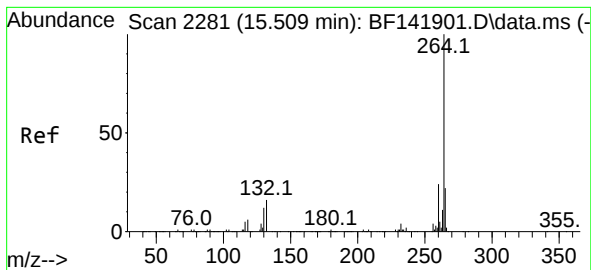


#83
Chrysene
Concen: 15.635 ng
RT: 14.057 min Scan# 2034
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55



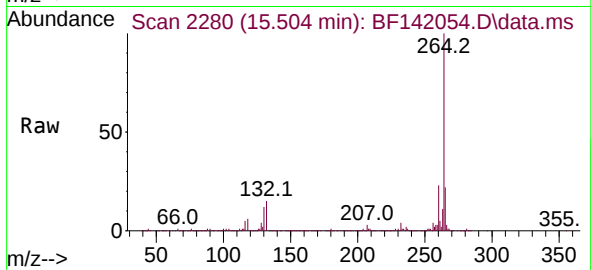
Tgt Ion:228 Resp: 235419
Ion Ratio Lower Upper
228 100
226 28.5 24.1 36.1
229 22.4 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

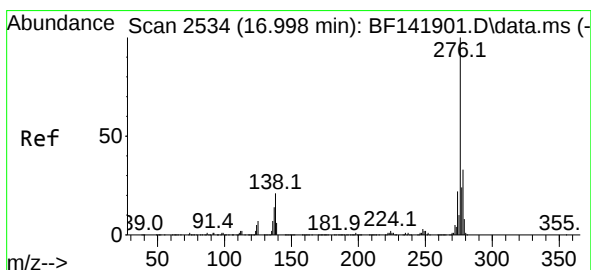
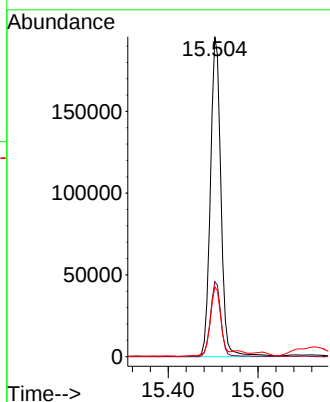
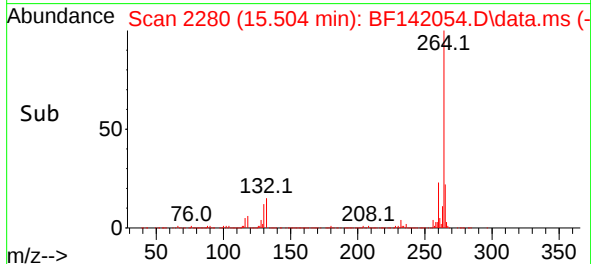
Instrument :
BNA_F
ClientSampleId :
TP-5DL2



Tgt Ion:264 Resp: 317814
Ion Ratio Lower Upper
264 100
260 23.4 19.1 28.7
265 21.8 17.5 26.3

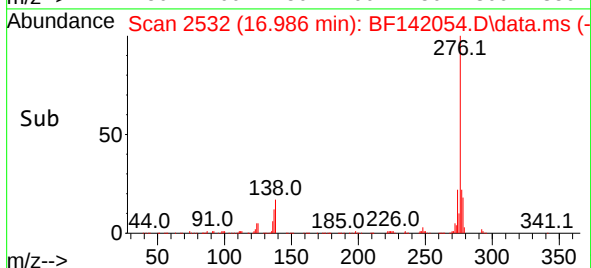
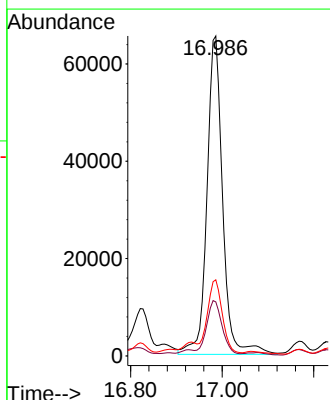
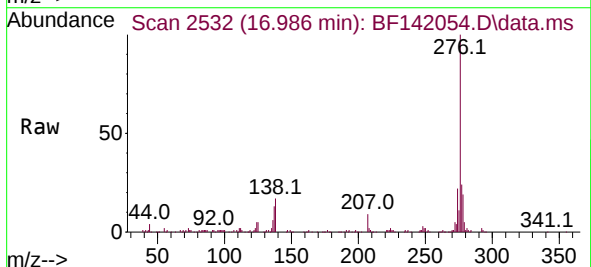
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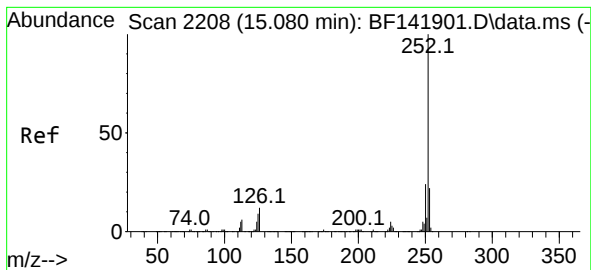
Reviewed By :Anahy Claudio 03/25/2025
Supervised By :Jagrut Upadhyay 03/25/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 7.587 ng m
RT: 16.986 min Scan# 2532
Delta R.T. -0.012 min
Lab File: BF142054.D
Acq: 24 Mar 2025 14:55

Tgt Ion:276 Resp: 155982
Ion Ratio Lower Upper
276 100
138 3.9 18.4 27.6#
277 3.9 20.3 30.5#





#88

Benzo(b)fluoranthene

Concen: 16.597 ng m

RT: 15.074 min Scan# 2210

Delta R.T. -0.006 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :

TP-5DL2

Tgt Ion:252 Resp: 361518

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

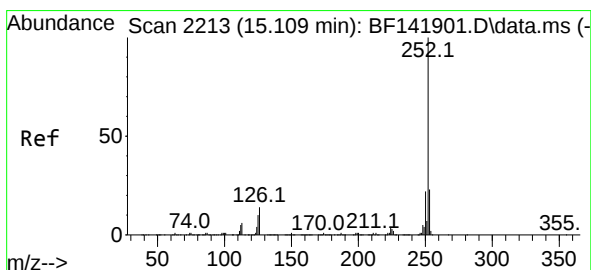
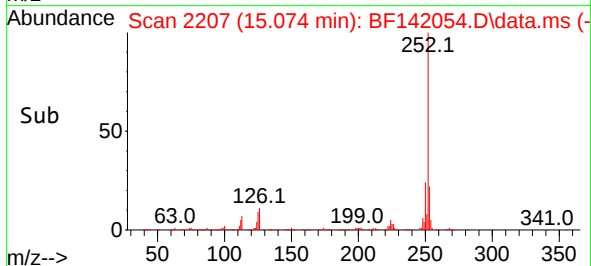
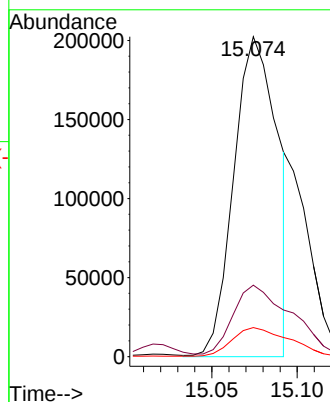
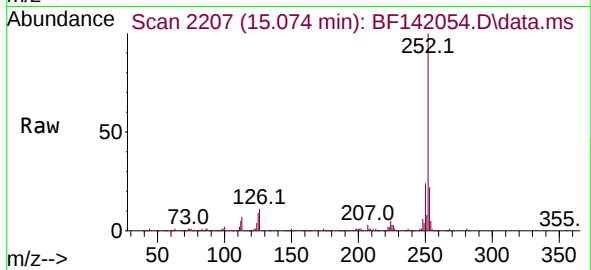
125 9.1 7.0 10.4

Manual Integrations

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Reviewed By :Anahy Claudio 03/25/2025

Supervised By :Jagrut Upadhyay 03/25/2025



#89

Benzo(k)fluoranthene

Concen: 6.053 ng m

RT: 15.092 min Scan# 2210

Delta R.T. -0.018 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

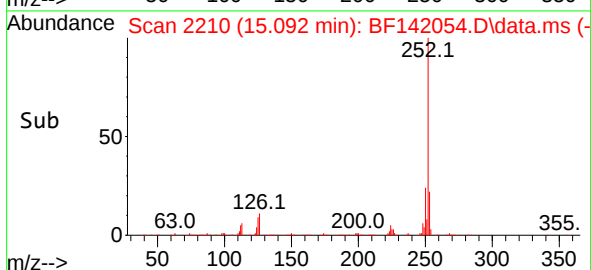
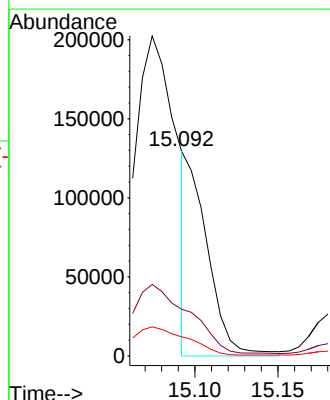
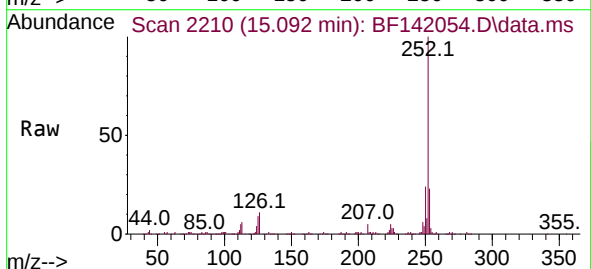
Tgt Ion:252 Resp: 112835

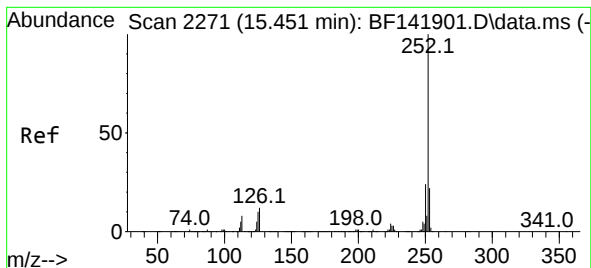
Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

125 9.3 7.2 10.8





#90

Benzo(a)pyrene

Concen: 14.393 ng

RT: 15.439 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Instrument :

BNA_F

ClientSampleId :

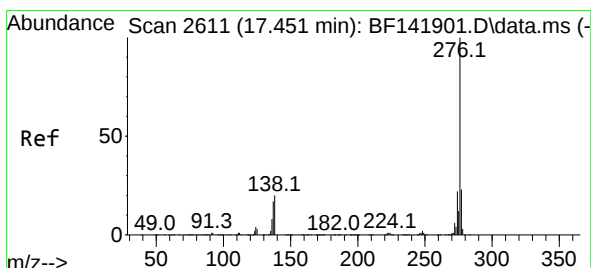
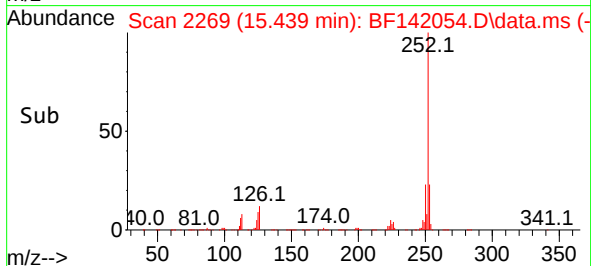
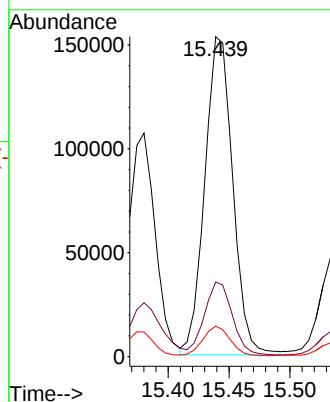
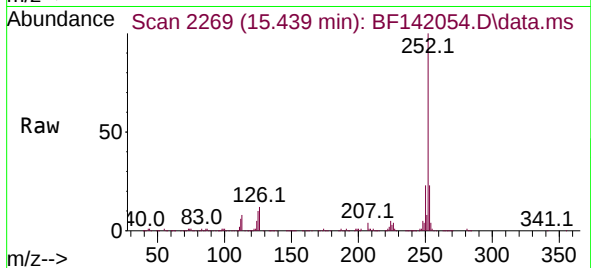
TP-5DL2

Tgt Ion:252 Resp: 245308
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.4 26.0
 125 9.5 7.8 11.8

Manual Integrations

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Reviewed By :Anahy Claudio 03/25/2025
 Supervised By :Jagrut Upadhyay 03/25/2025



#92

Benzo(g,h,i)perylene

Concen: 7.862 ng

RT: 17.433 min Scan# 2608

Delta R.T. -0.018 min

Lab File: BF142054.D

Acq: 24 Mar 2025 14:55

Tgt Ion:276 Resp: 131795
 Ion Ratio Lower Upper
 276 100
 277 23.9 18.7 28.1
 138 19.2 15.8 23.8

