

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032825\
 Data File : BF142159.D
 Acq On : 28 Mar 2025 14:37
 Operator : RC/JU
 Sample : Q1648-07DL 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

Manual Integrations
 APPROVED

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

Quant Time: Mar 28 15:01:14 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	134180	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	537437	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	313079	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	512755	20.000	ng	0.00
76) Chrysene-d12	14.033	240	290239	20.000	ng	0.00
86) Perylene-d12	15.510	264	329096	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	392657	48.840	ng	-0.01
7) Phenol-d6	6.487	99	488781	47.750	ng	-0.02
23) Nitrobenzene-d5	7.428	82	320622	33.573	ng	-0.02
42) 2,4,6-Tribromophenol	10.692	330	98229	24.731	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	665022	32.304	ng	-0.01
79) Terphenyl-d14	12.975	244	551404	28.088	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.939	154	106186	5.743	ng	98
55) Dibenzofuran	10.110	168	86289	3.266	ng	97
58) Fluorene	10.451	166	133687	6.561	ng	97
71) Phenanthrene	11.422	178	1303944	47.081	ng	100
72) Anthracene	11.469	178	546304	19.661	ng	99
73) Carbazole	11.622	167	55753	2.327	ng	95
75) Fluoranthene	12.610	202	1275182	43.405	ng	100
78) Pyrene	12.839	202	1095848	43.649	ng	98
81) Benzo(a)anthracene	14.027	228	440714	23.140	ng	98
83) Chrysene	14.063	228	307038	17.785	ng	97
87) Indeno(1,2,3-cd)pyrene	16.992	276	151683m	7.125	ng	
88) Benzo(b)fluoranthene	15.080	252	412429m	18.286	ng	
89) Benzo(k)fluoranthene	15.098	252	112922m	5.850	ng	
90) Benzo(a)pyrene	15.445	252	329833	18.689	ng	98
91) Dibenzo(a,h)anthracene	17.004	278	35822	2.039	ng	# 90
92) Benzo(g,h,i)perylene	17.445	276	135052	7.781	ng	97

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

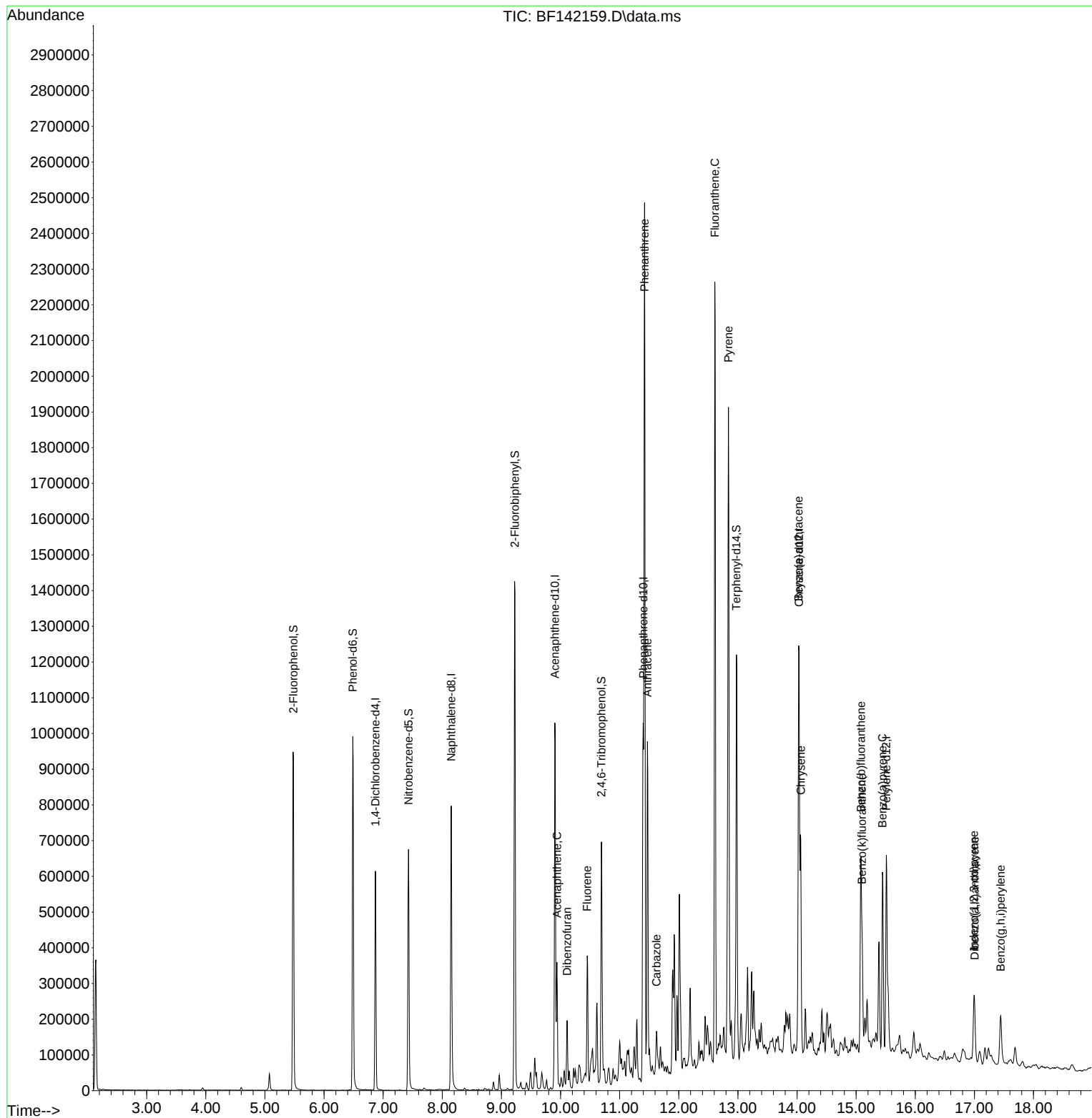
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032825\
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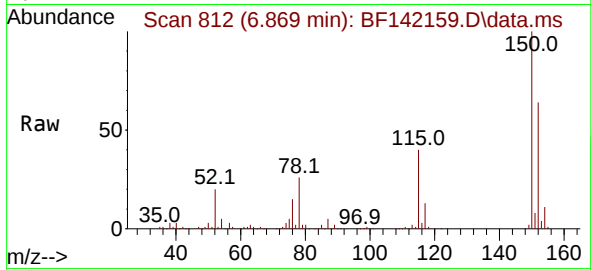
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

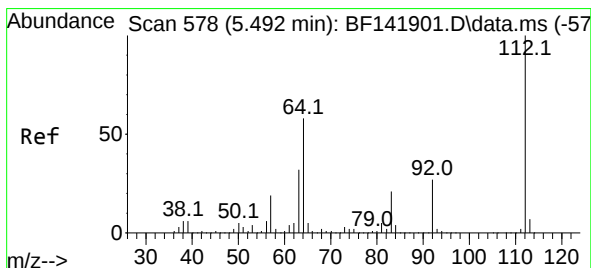
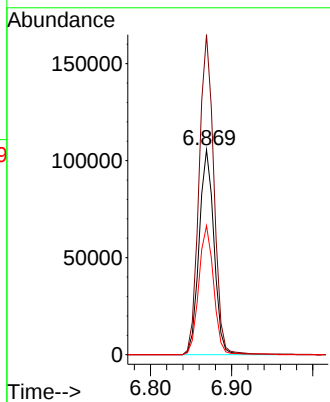
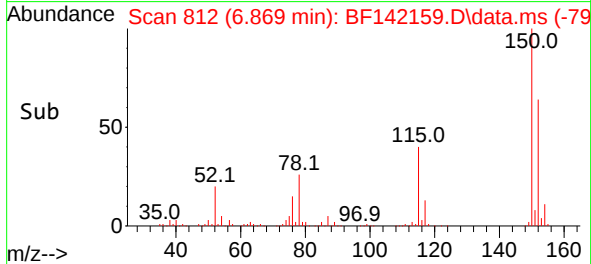
Instrument :
BNA_F
ClientSampleId :
TP-6DL



Tgt Ion:152 Resp: 134180
Ion Ratio Lower Upper
152 100
150 156.2 127.4 191.2
115 62.9 51.9 77.9

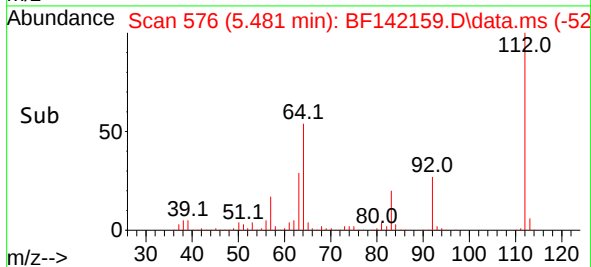
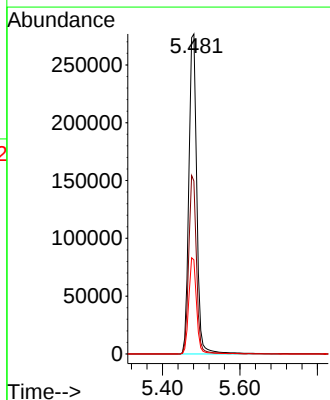
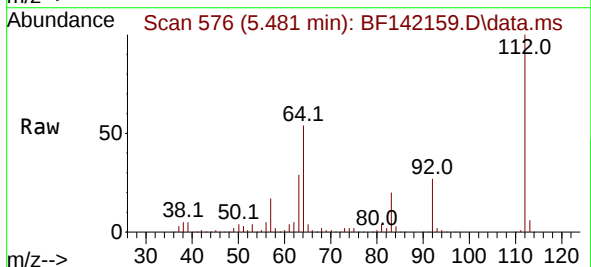
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#5
2-Fluorophenol
Concen: 48.840 ng
RT: 5.481 min Scan# 576
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

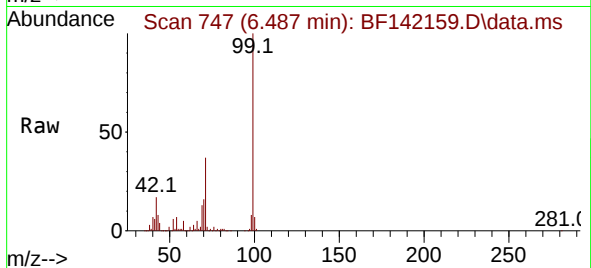
Tgt Ion:112 Resp: 392657
Ion Ratio Lower Upper
112 100
64 54.0 46.5 69.7
63 29.4 25.4 38.2





#7
Phenol-d6
Concen: 47.750 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.017 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

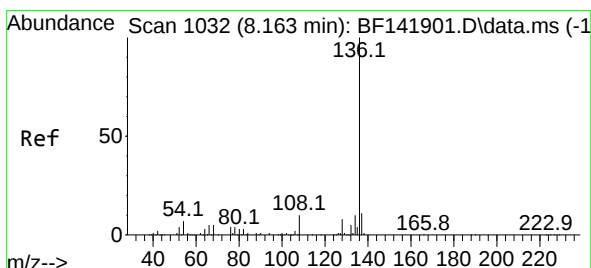
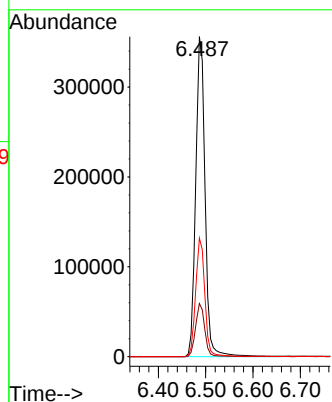
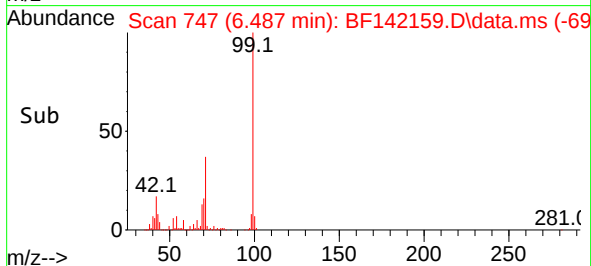
Instrument :
BNA_F
ClientSampleId :
TP-6DL



Tgt Ion: 99 Resp: 48878
Ion Ratio Lower Upper
99 100
42 16.6 14.6 21.8
71 37.1 30.8 46.2

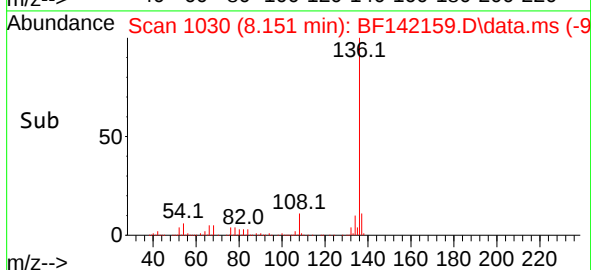
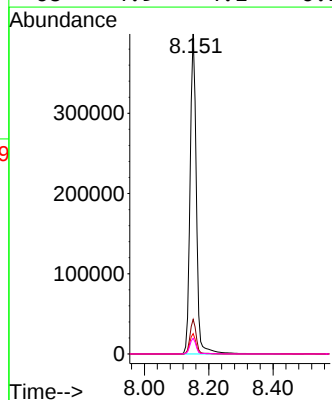
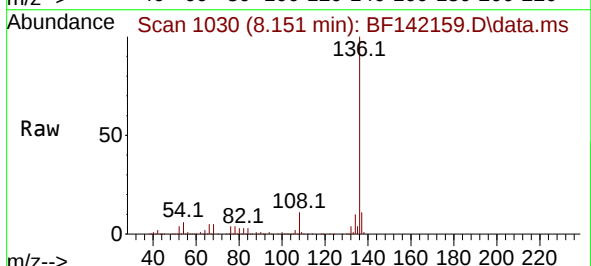
Manual Integrations
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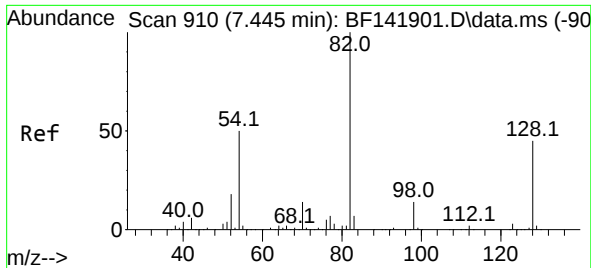
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

Tgt Ion:136 Resp: 537437
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 6.4 5.8 8.8
68 4.9 4.1 6.1





#23
Nitrobenzene-d5
Concen: 33.573 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.017 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

Instrument :

BNA_F

ClientSampleId :

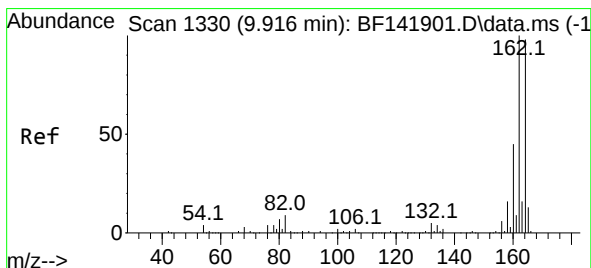
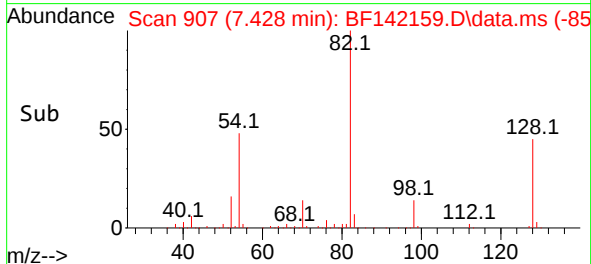
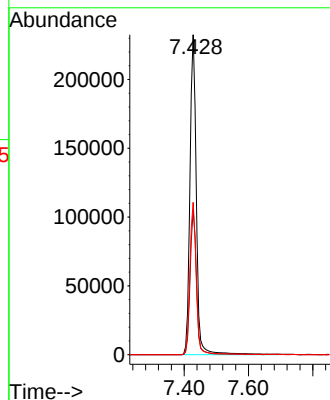
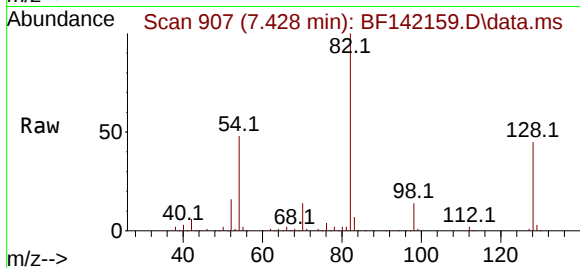
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Tgt Ion: 82 Resp: 32062
Ion Ratio Lower Upper
82 100
128 45.3 36.0 54.0
54 47.6 39.6 59.4

Manual Integrations

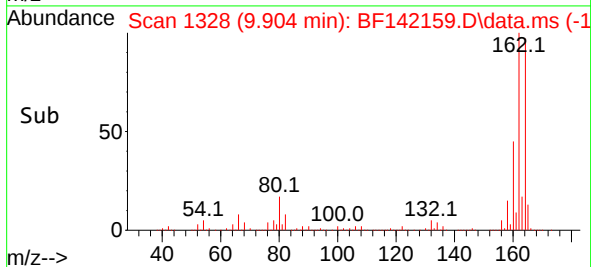
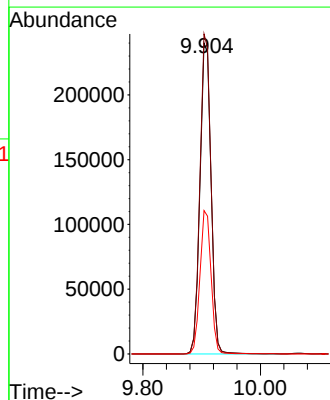
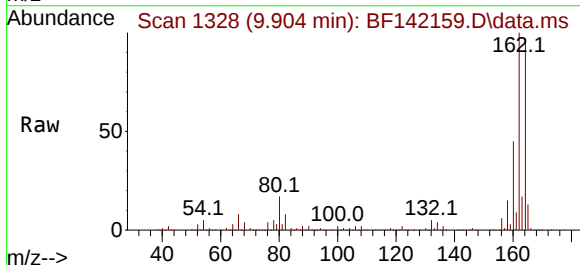
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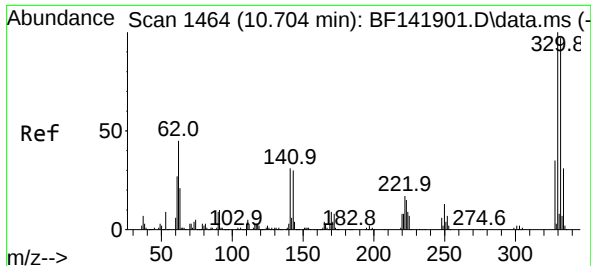
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

Tgt Ion:164 Resp: 313079
Ion Ratio Lower Upper
164 100
162 102.9 81.8 122.6
160 46.1 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 24.731 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

Instrument :

BNA_F

ClientSampleId :

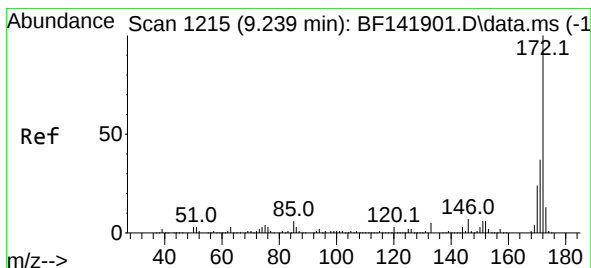
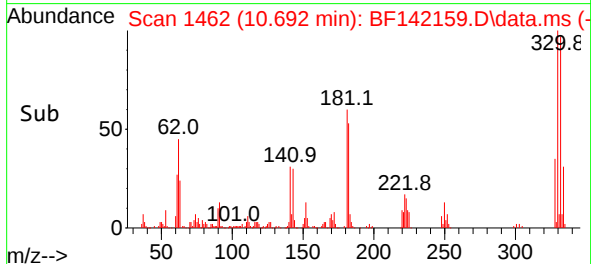
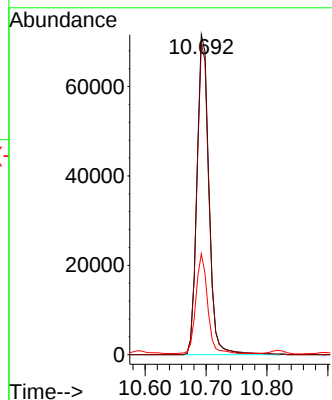
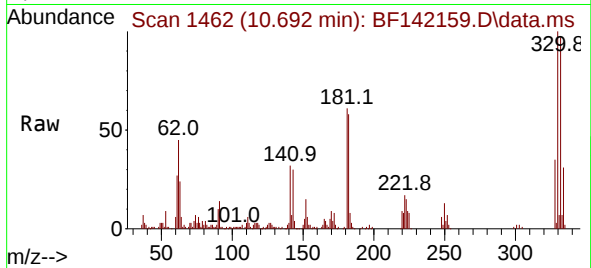
TP-6DL

Tgt Ion:330 Resp: 98229
Ion Ratio Lower Upper
330 100
332 97.7 77.6 116.4
141 30.3 24.7 37.1

Manual Integrations

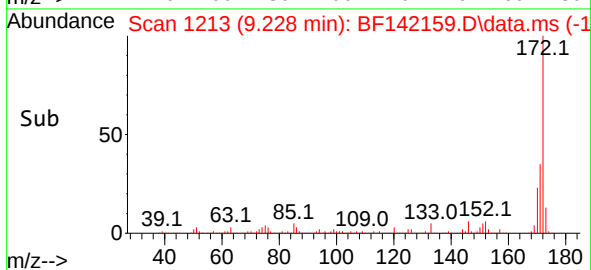
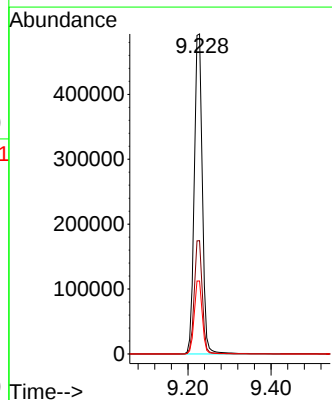
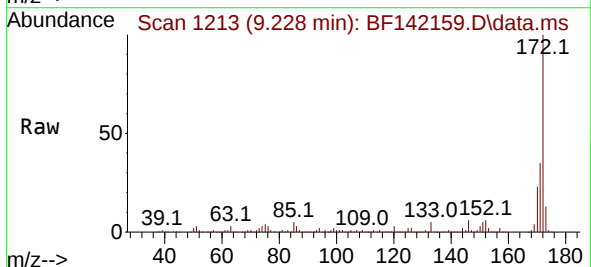
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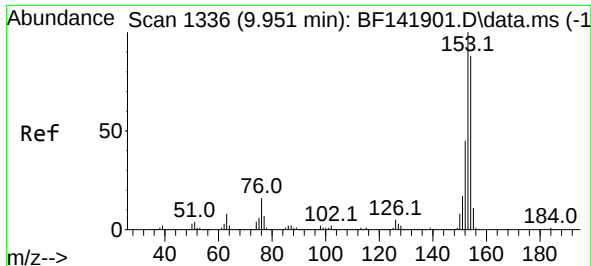
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#45
2-Fluorobiphenyl
Concen: 32.304 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

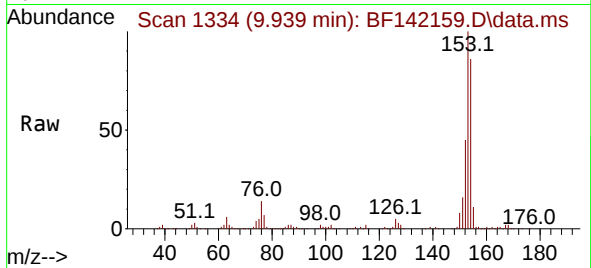
Tgt Ion:172 Resp: 665022
Ion Ratio Lower Upper
172 100
171 35.4 29.3 43.9
170 22.8 19.4 29.0





#52
Acenaphthene
Concen: 5.743 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

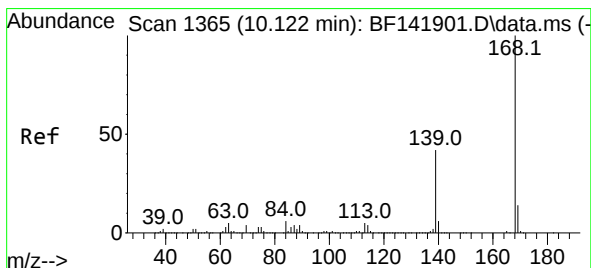
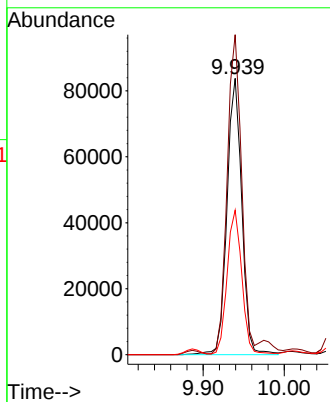
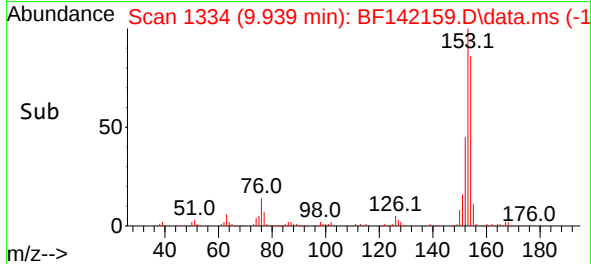
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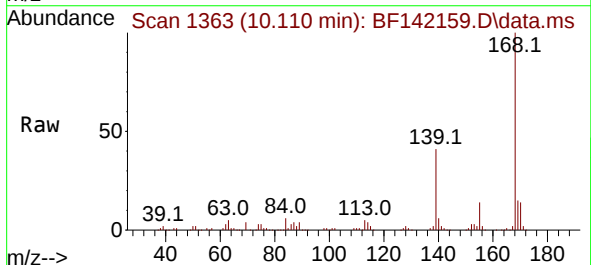
Tgt Ion:154 Resp: 106180
Ion Ratio Lower Upper
154 100
153 115.8 90.7 136.1
152 52.3 41.1 61.7

Manual Integrations
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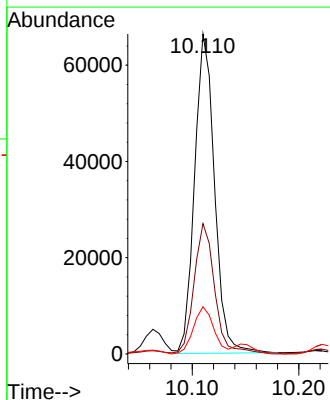
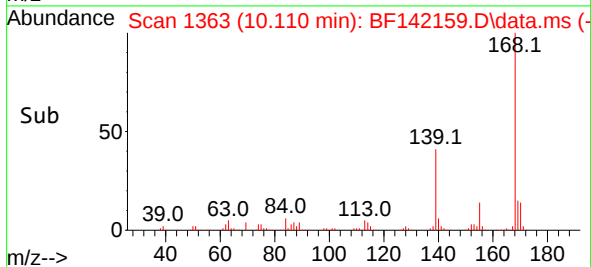
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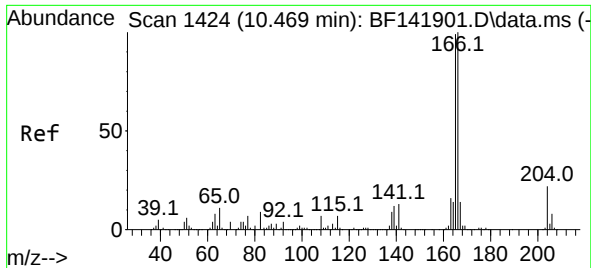


#55
Dibenzofuran
Concen: 3.266 ng
RT: 10.110 min Scan# 1363
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37



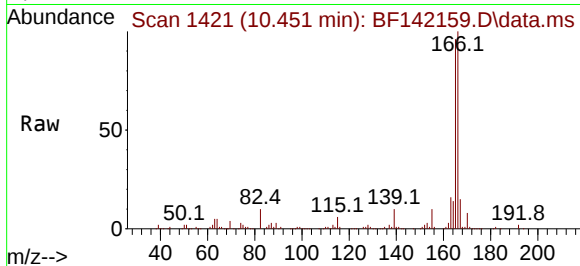
Tgt Ion:168 Resp: 86289
Ion Ratio Lower Upper
168 100
139 40.8 33.9 50.9
169 14.7 11.0 16.4





#58
Fluorene
Concen: 6.561 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.017 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

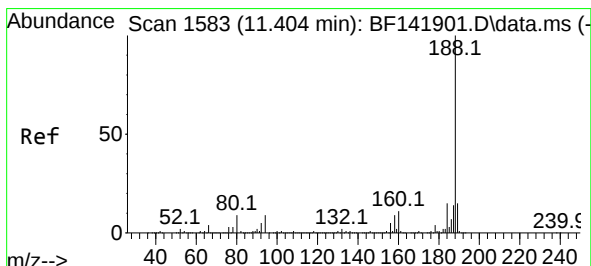
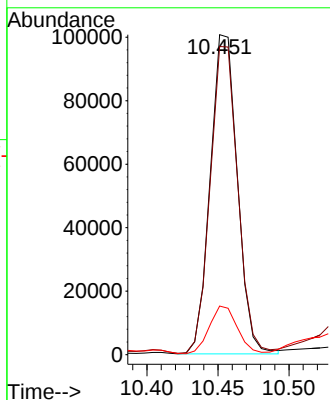
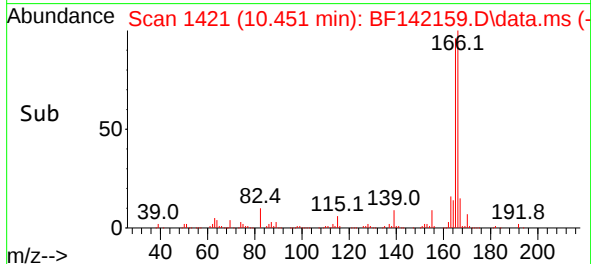
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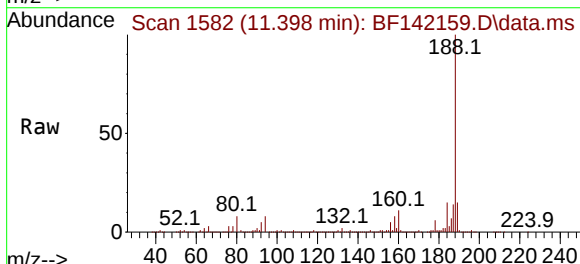
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167 15.2 11.0 16.4

Manual Integrations
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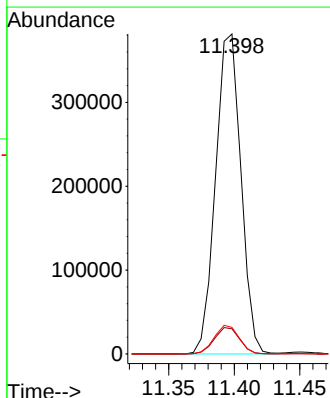
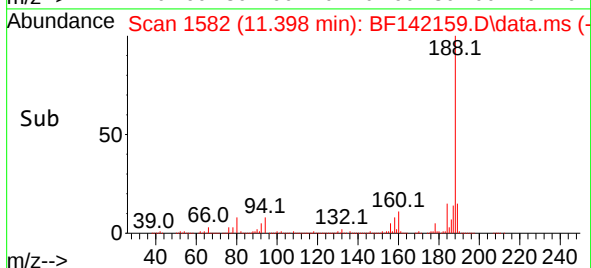
Reviewed By :Anahy Claudio 03/31/2025
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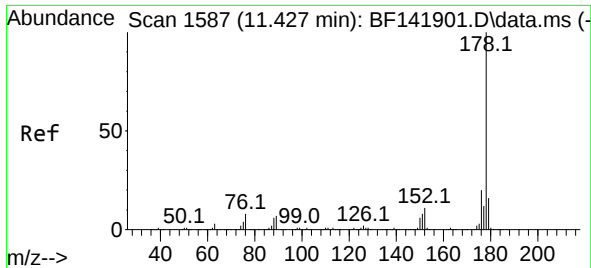


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37



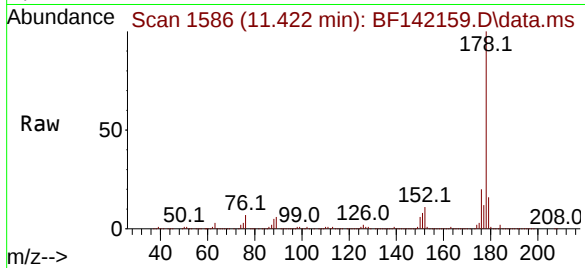
Tgt Ion:188 Resp: 512755
Ion Ratio Lower Upper
188 100
94 7.8 6.8 10.2
80 8.3 7.6 11.4





#71
Phenanthrene
Concen: 47.081 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

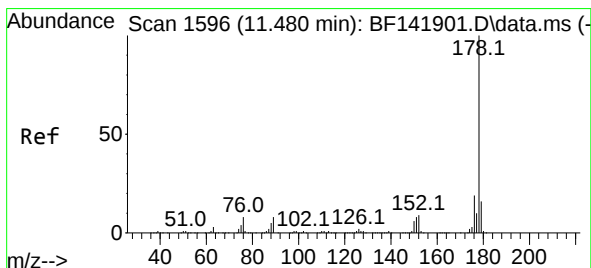
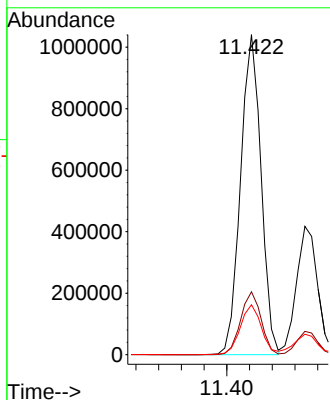
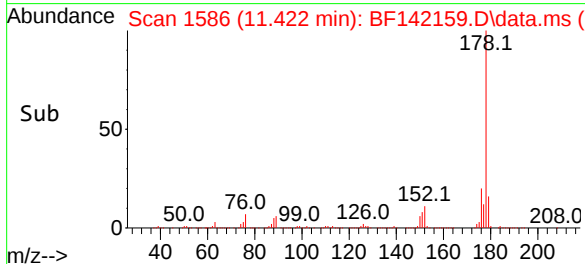
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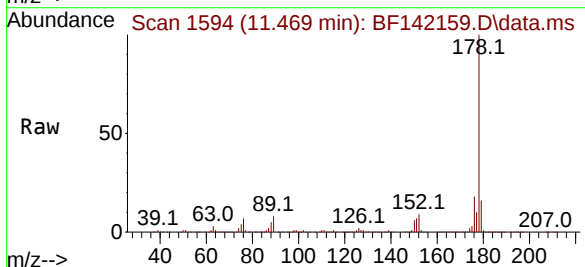
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Ion Ratio Lower Upper
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176 19.7 15.8 23.8
179 15.6 12.6 19.0

Manual Integrations
APPROVED

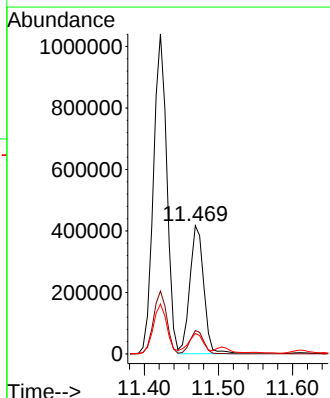
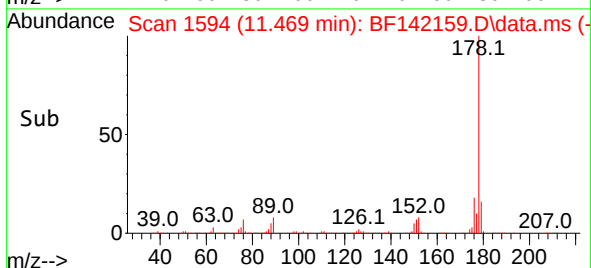
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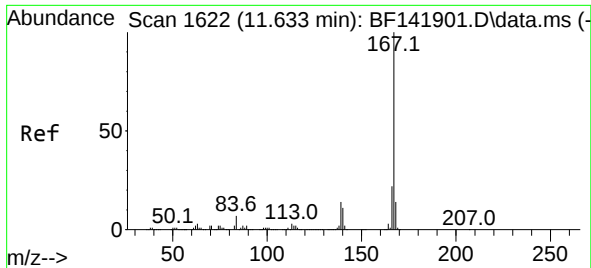


#72
Anthracene
Concen: 19.661 ng
RT: 11.469 min Scan# 1594
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37



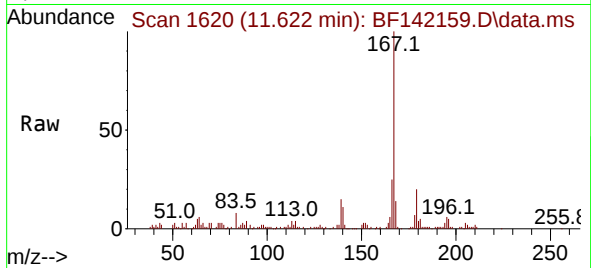
Tgt Ion:178 Resp: 546304
Ion Ratio Lower Upper
178 100
176 18.2 15.1 22.7
179 15.9 12.6 19.0





#73
 Carbazole
 Concen: 2.327 ng
 RT: 11.622 min Scan# 1622
 Delta R.T. -0.012 min
 Lab File: BF142159.D
 Acq: 28 Mar 2025 14:37

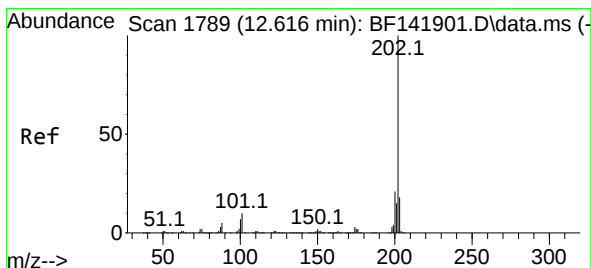
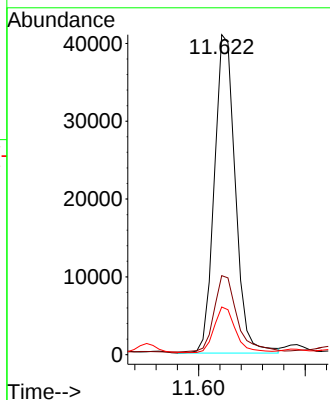
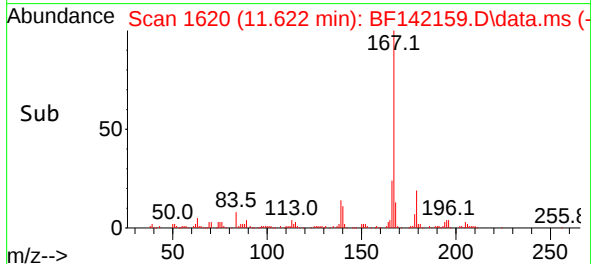
Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL



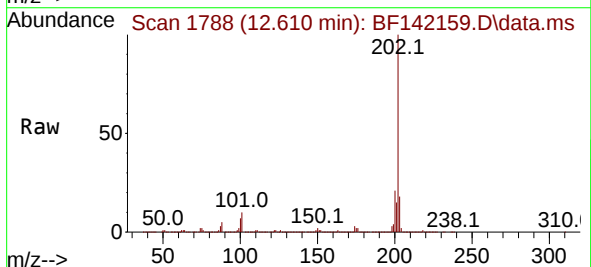
Tgt Ion:167 Resp: 5575
 Ion Ratio Lower Upper
 167 100
 166 24.7 17.4 26.2
 139 14.9 11.0 16.6

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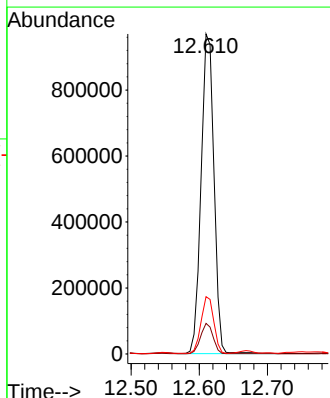
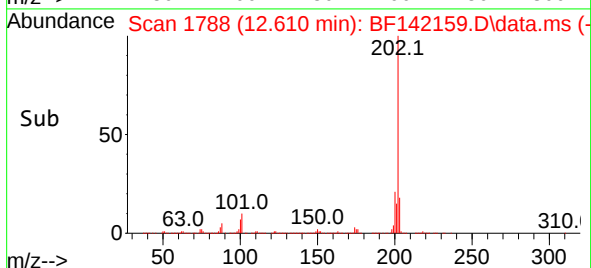
Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025

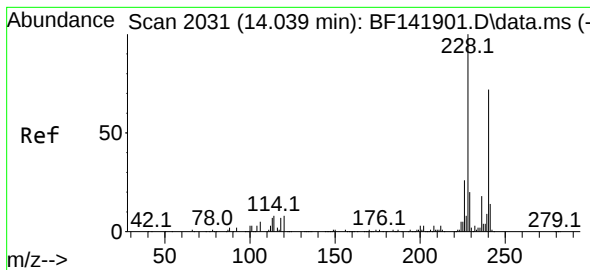


#75
 Fluoranthene
 Concen: 43.405 ng
 RT: 12.610 min Scan# 1788
 Delta R.T. -0.006 min
 Lab File: BF142159.D
 Acq: 28 Mar 2025 14:37



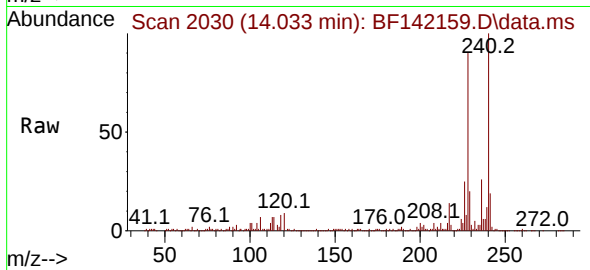
Tgt Ion:202 Resp: 1275182
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 29.7
 203 17.9 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

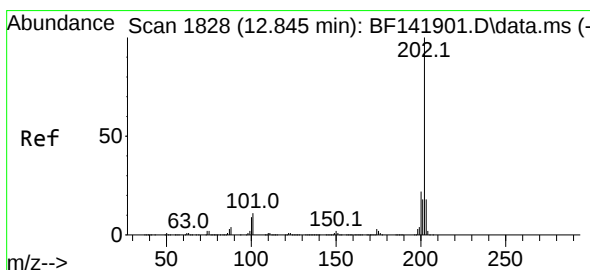
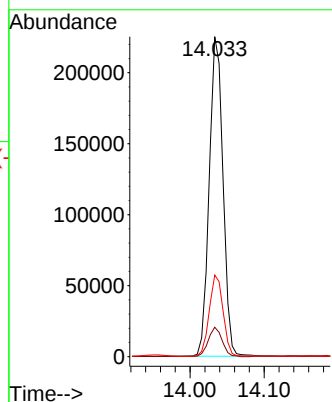
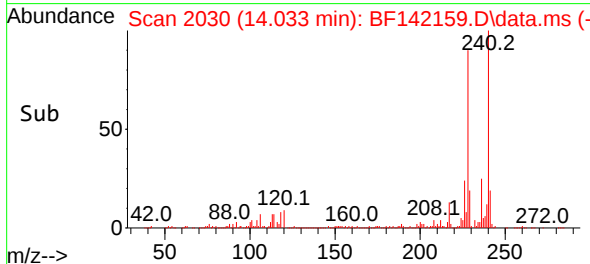
Instrument :
BNA_F
ClientSampleId :
TP-6DL



Tgt Ion:240 Resp: 290239
Ion Ratio Lower Upper
240 100
120 9.2 8.4 12.6
236 25.5 20.5 30.7

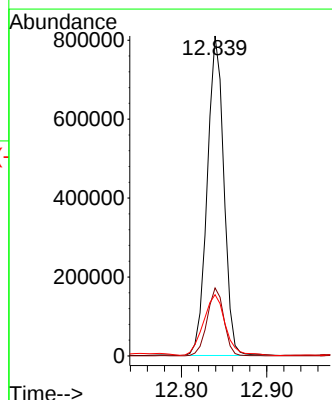
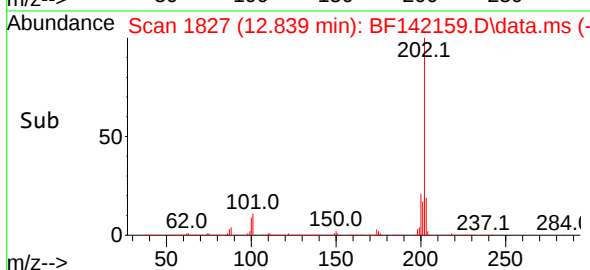
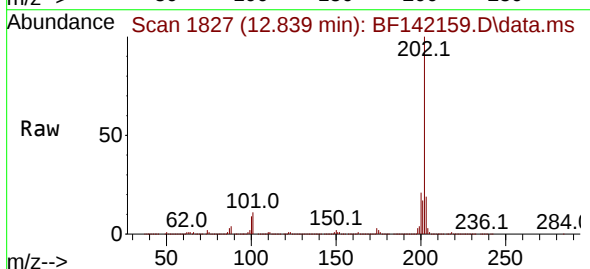
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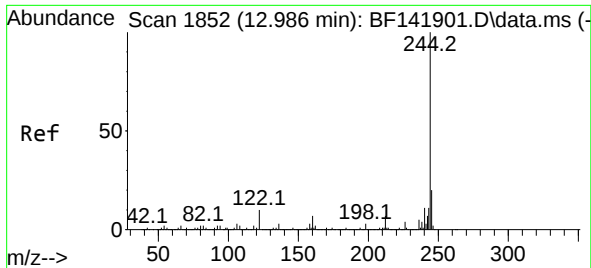
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#78
Pyrene
Concen: 43.649 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

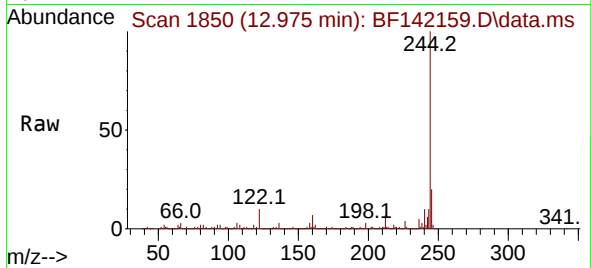
Tgt Ion:202 Resp: 1095848
Ion Ratio Lower Upper
202 100
200 21.2 17.3 25.9
203 19.2 14.4 21.6





#79
 Terphenyl-d14
 Concen: 28.088 ng
 RT: 12.975 min Scan# 1852
 Delta R.T. -0.012 min
 Lab File: BF142159.D
 Acq: 28 Mar 2025 14:37

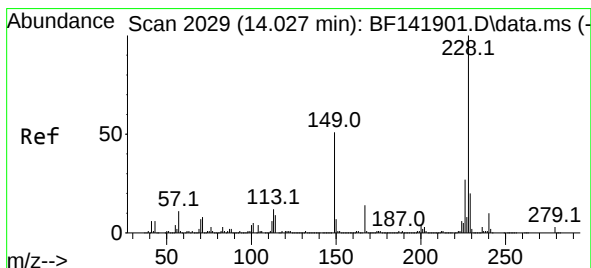
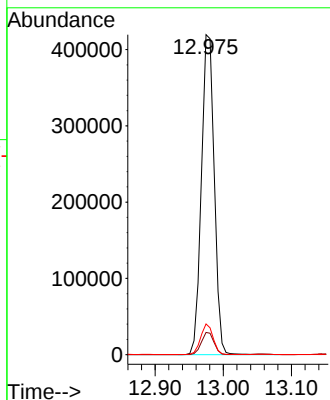
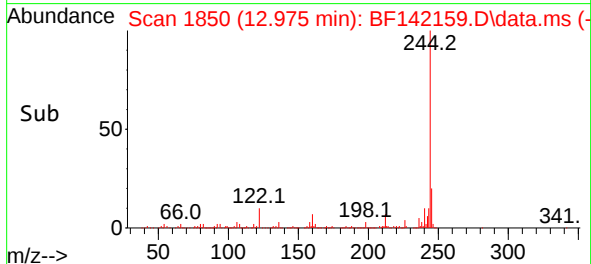
Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL



Tgt Ion:244 Resp: 551404
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 9.6 7.7 11.5

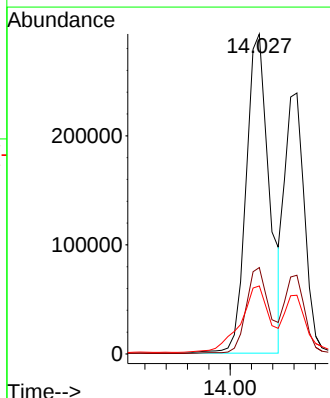
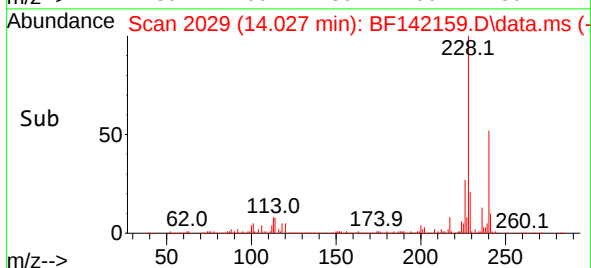
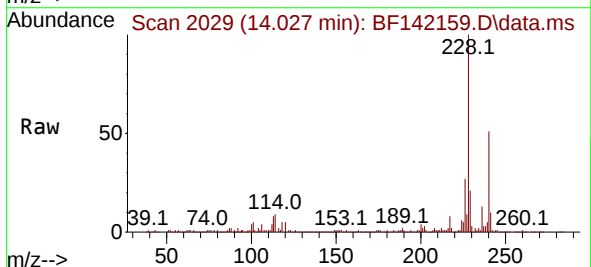
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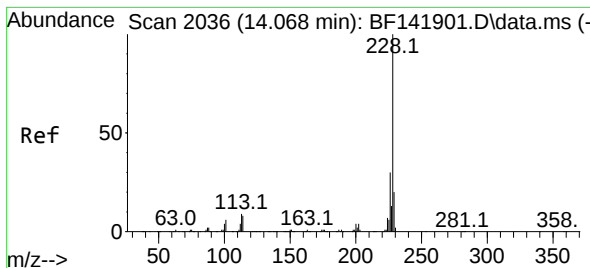
Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025



#81
 Benzo(a)anthracene
 Concen: 23.140 ng
 RT: 14.027 min Scan# 2029
 Delta R.T. 0.000 min
 Lab File: BF142159.D
 Acq: 28 Mar 2025 14:37

Tgt Ion:228 Resp: 440714
 Ion Ratio Lower Upper
 228 100
 226 27.0 21.8 32.8
 229 21.3 16.0 24.0





#83

Chrysene

Concen: 17.785 ng

RT: 14.063 min Scan# 2036

Delta R.T. -0.006 min

Lab File: BF142159.D

Acq: 28 Mar 2025 14:37

Instrument :

BNA_F

ClientSampleId :

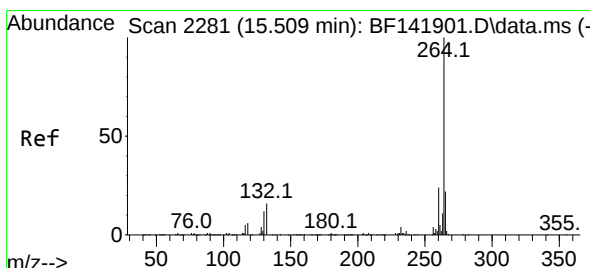
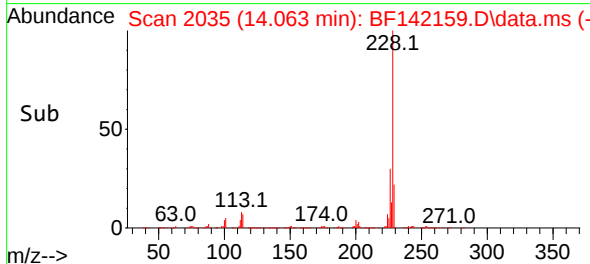
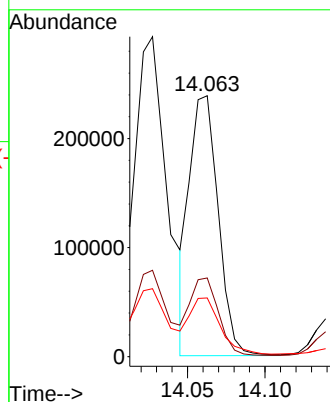
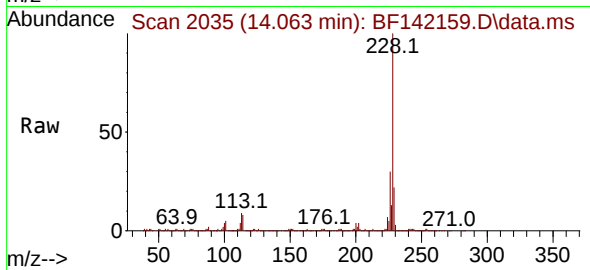
TP-6DL

Tgt Ion:228 Resp: 307038
 Ion Ratio Lower Upper
 228 100
 226 30.2 24.1 36.1
 229 22.5 15.7 23.5

Manual Integrations

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



#86

Perylene-d12

Concen: 20.000 ng

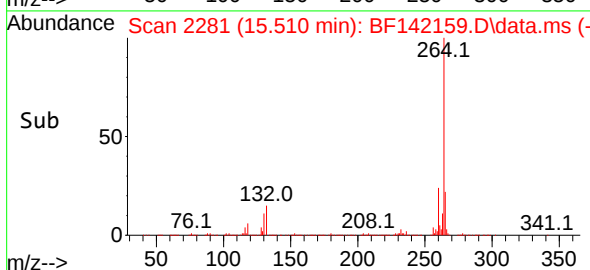
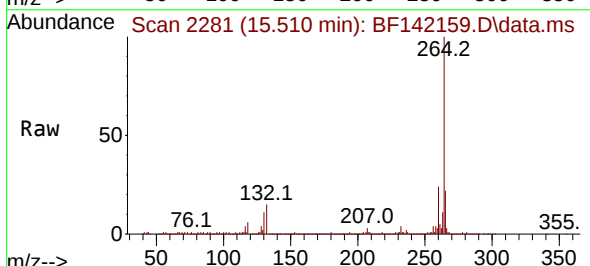
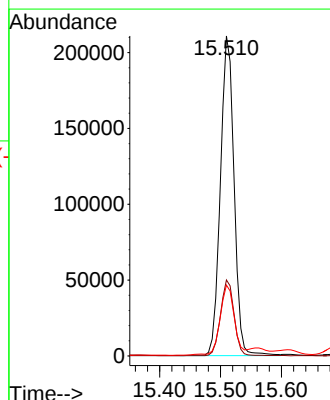
RT: 15.510 min Scan# 2281

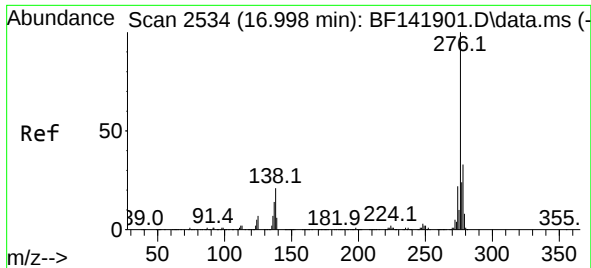
Delta R.T. 0.000 min

Lab File: BF142159.D

Acq: 28 Mar 2025 14:37

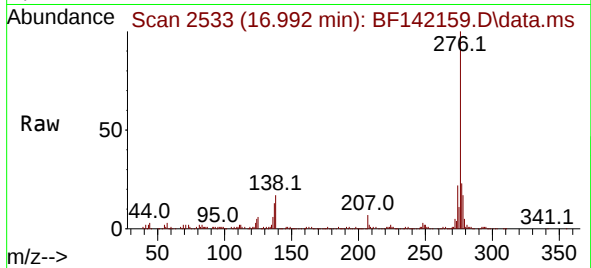
Tgt Ion:264 Resp: 329096
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.1 28.7
 265 22.2 17.5 26.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 7.125 ng m
RT: 16.992 min Scan# 2534
Delta R.T. -0.006 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

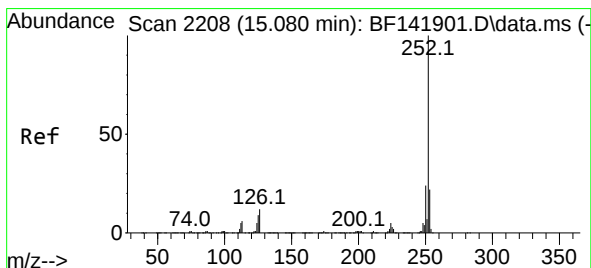
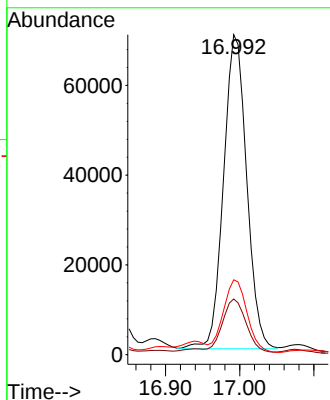
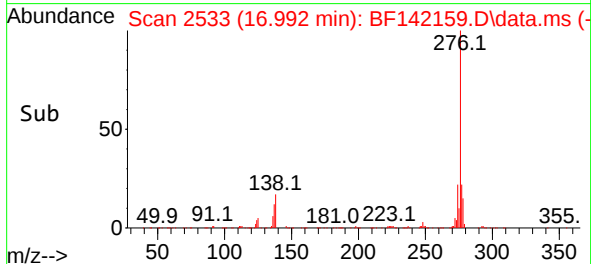
Instrument :
BNA_F
ClientSampleId :
TP-6DL



Tgt Ion:276 Resp: 15168
Ion Ratio Lower Upper
276 100
138 4.2 18.4 27.6
277 3.9 20.3 30.5

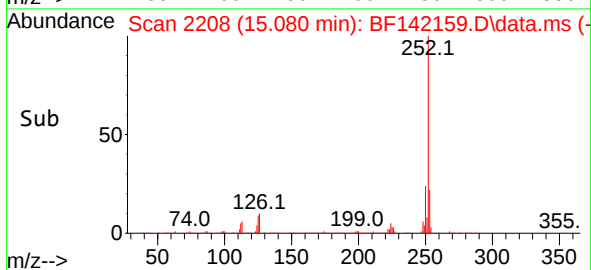
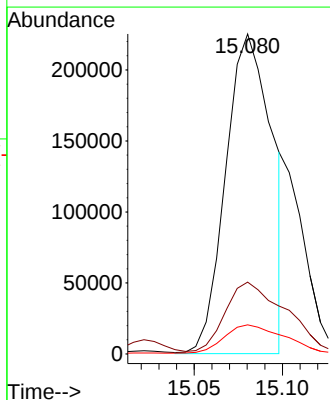
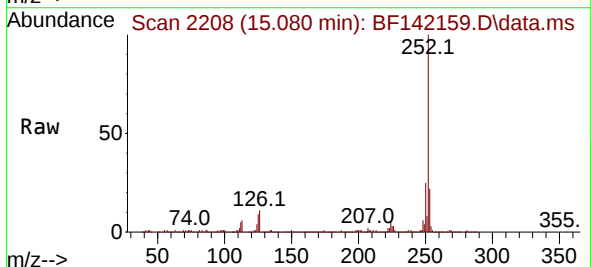
Manual Integrations
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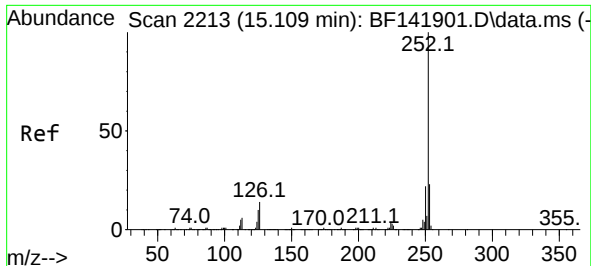
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#88
Benzo(b)fluoranthene
Concen: 18.286 ng m
RT: 15.080 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

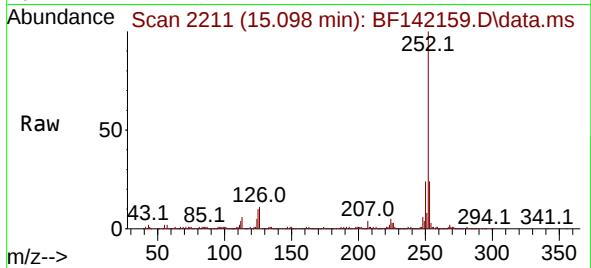
Tgt Ion:252 Resp: 412429
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 9.1 7.0 10.4





#89
Benzo(k)fluoranthene
Concen: 5.850 ng m
RT: 15.098 min Scan# 211
Delta R.T. -0.012 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

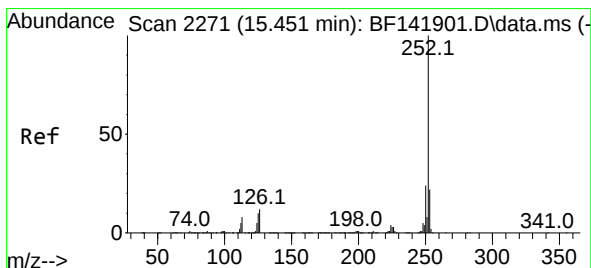
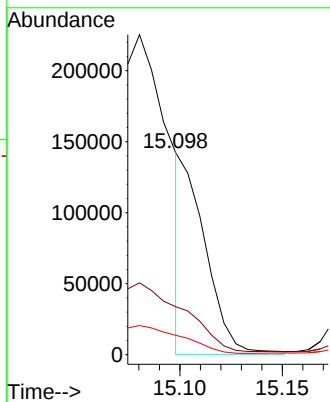
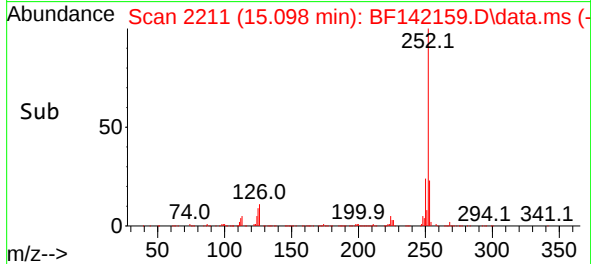
Instrument :
BNA_F
ClientSampleId :
TP-6DL



Tgt Ion:252 Resp: 11292
Ion Ratio Lower Upper
252 100
253 23.8 17.7 26.5
125 9.6 7.2 10.8

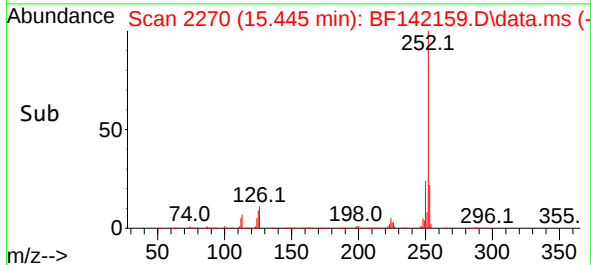
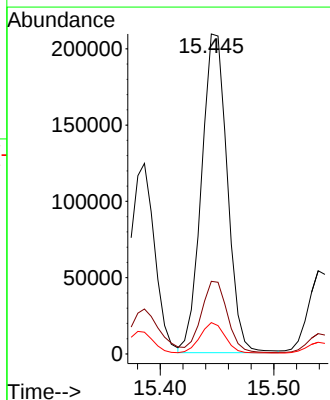
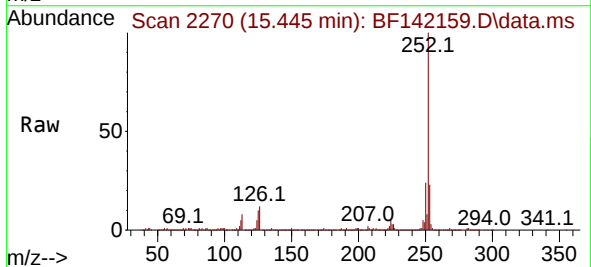
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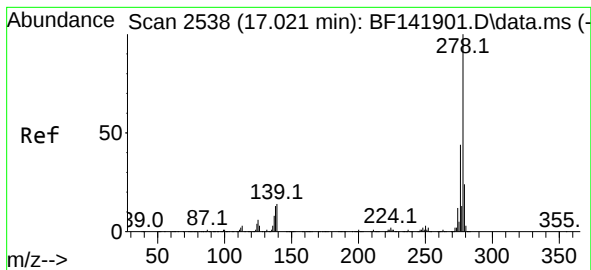
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#90
Benzo(a)pyrene
Concen: 18.689 ng
RT: 15.445 min Scan# 2270
Delta R.T. -0.006 min
Lab File: BF142159.D
Acq: 28 Mar 2025 14:37

Tgt Ion:252 Resp: 329833
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 9.8 7.8 11.8





#91

Dibenzo(a,h)anthracene

Concen: 2.039 ng

RT: 17.004 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF142159.D

Acq: 28 Mar 2025 14:37

Instrument :

BNA_F

ClientSampleId :

TP-6DL

Tgt Ion:278 Resp: 3582

Ion Ratio Lower Upper

278 100

139 17.1 11.4 17.2

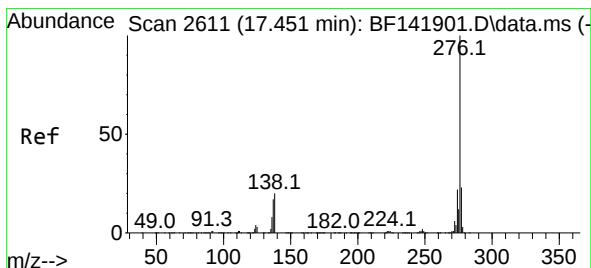
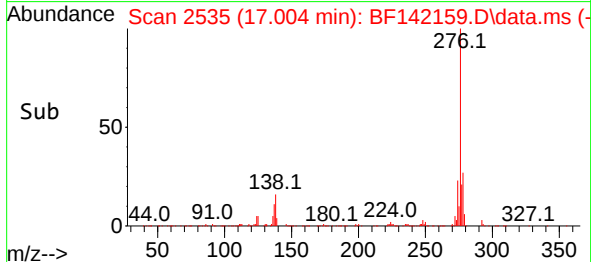
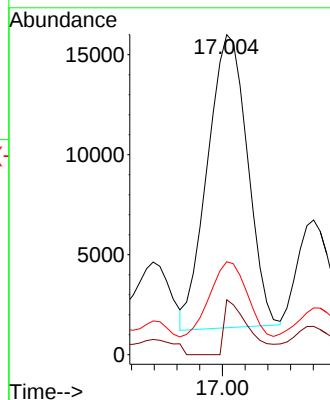
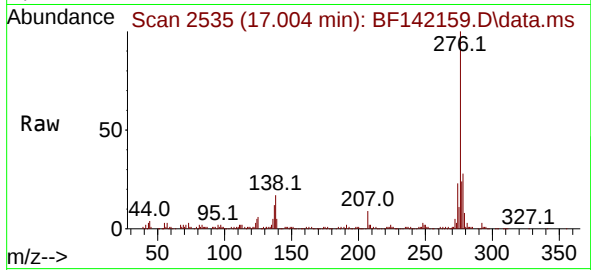
279 29.0 18.8 28.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025



#92

Benzo(g,h,i)perylene

Concen: 7.781 ng

RT: 17.445 min Scan# 2610

Delta R.T. -0.006 min

Lab File: BF142159.D

Acq: 28 Mar 2025 14:37

Tgt Ion:276 Resp: 135052

Ion Ratio Lower Upper

276 100

277 22.8 18.7 28.1

138 17.7 15.8 23.8

