

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032825\
 Data File : BF142171.D
 Acq On : 28 Mar 2025 20:31
 Operator : RC/JU
 Sample : Q1650-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 STOCK-PILE-BIN2

Manual Integrations
 APPROVED

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

Quant Time: Mar 28 22:49:33 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	124029	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	467807	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	232192	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	339428	20.000	ng	-0.01
76) Chrysene-d12	14.039	240	266213	20.000	ng	0.00
86) Perylene-d12	15.510	264	218359	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	690208	92.876	ng	0.00
7) Phenol-d6	6.492	99	840305	88.809	ng	-0.01
23) Nitrobenzene-d5	7.434	82	547280	65.836	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	216217	73.402	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	1053672	69.013	ng	-0.01
79) Terphenyl-d14	12.980	244	937885	52.087	ng	0.00
Target Compounds						
						Qvalue
49) Acenaphthylene	9.769	152	45530	2.333	ng	98
52) Acenaphthene	9.939	154	121515	8.861	ng	98
55) Dibenzofuran	10.110	168	107383	5.480	ng	97
58) Fluorene	10.451	166	202170	13.379	ng	99
71) Phenanthrene	11.422	178	1174454	64.060	ng	99
72) Anthracene	11.469	178	615529	33.465	ng	99
73) Carbazole	11.622	167	122030	7.693	ng	100
75) Fluoranthene	12.616	202	2509001	129.013	ng	98
78) Pyrene	12.845	202	1718301	74.619	ng	99
81) Benzo(a)anthracene	14.027	228	717394	41.067	ng	96
83) Chrysene	14.063	228	592451	37.414	ng	97
87) Indeno(1,2,3-cd)pyrene	16.998	276	151802m	10.747	ng	
88) Benzo(b)fluoranthene	15.080	252	578778m	38.674	ng	
89) Benzo(k)fluoranthene	15.098	252	182802m	14.274	ng	
90) Benzo(a)pyrene	15.451	252	282175	24.097	ng	97
91) Dibenzo(a,h)anthracene	17.004	278	38997	3.346	ng	# 90
92) Benzo(g,h,i)perylene	17.451	276	139499	12.112	ng	97

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

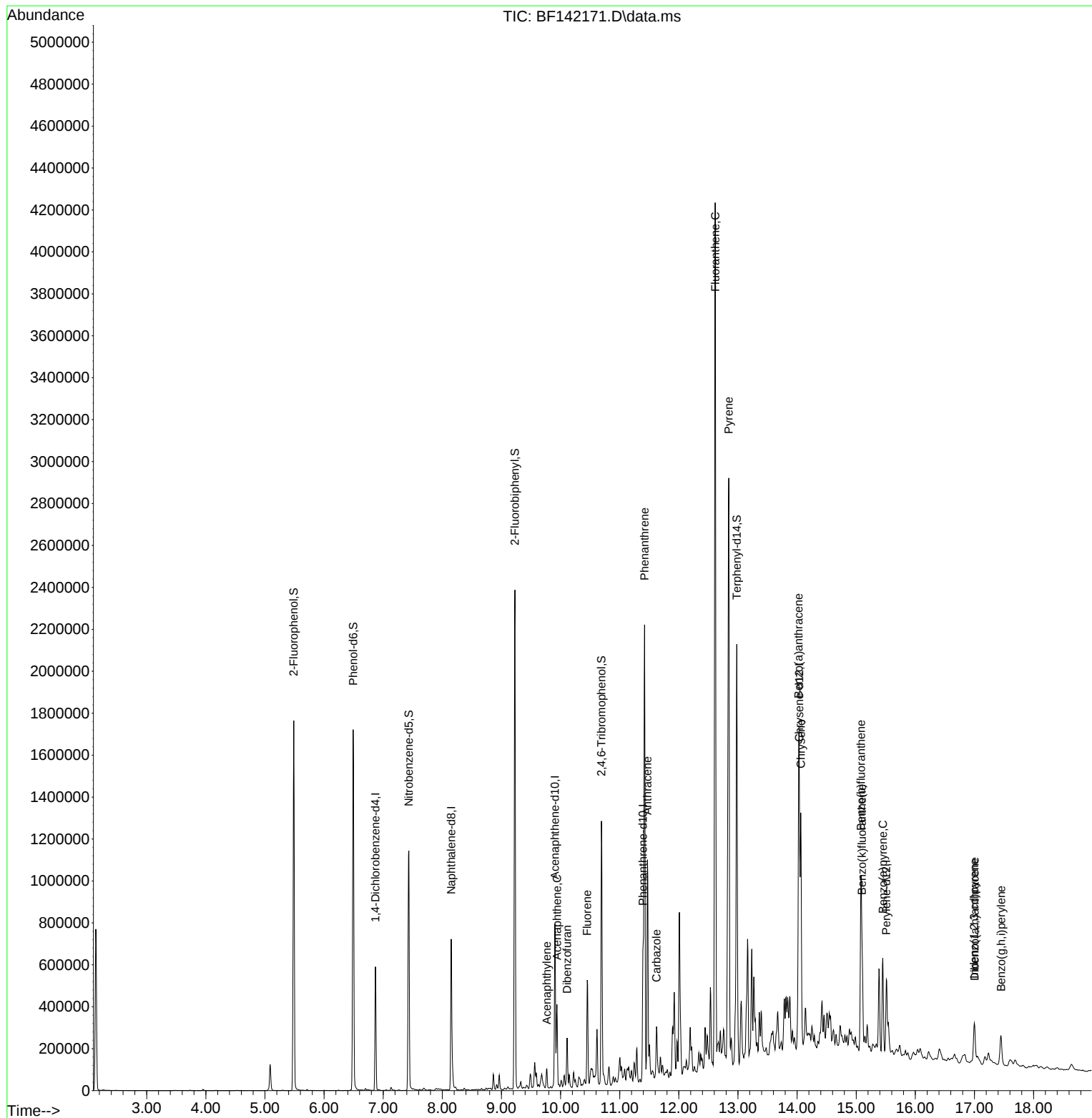
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032825\
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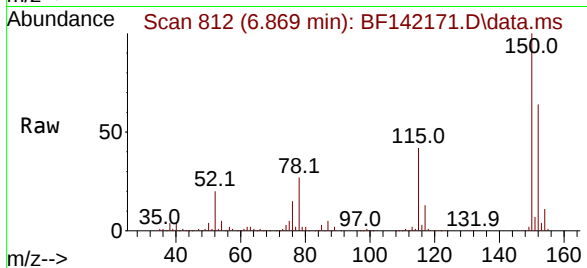
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-BIN2

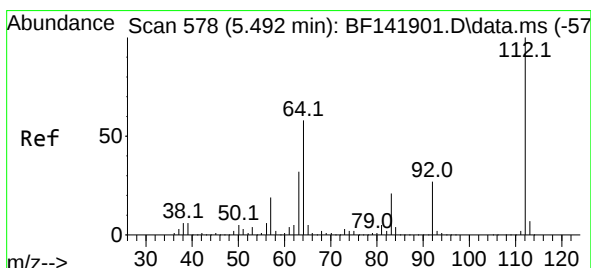
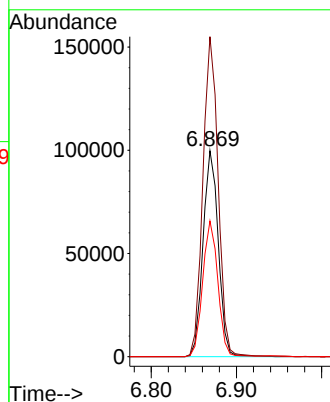
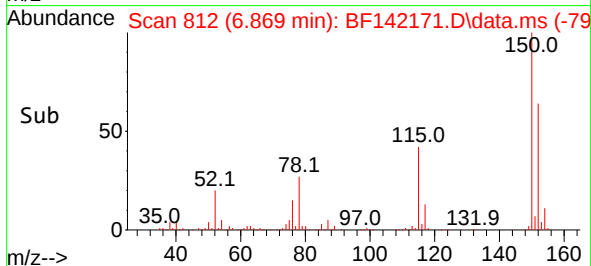


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Ion Ratio Lower Upper
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150 155.4 127.4 191.2
115 65.9 51.9 77.9

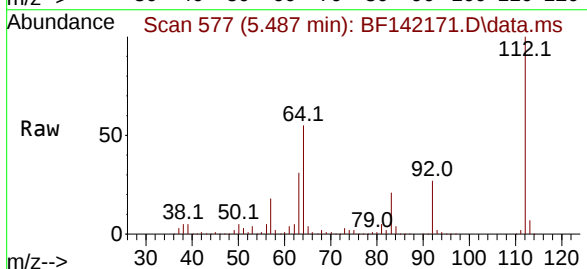
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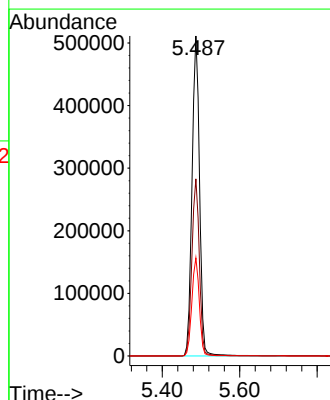
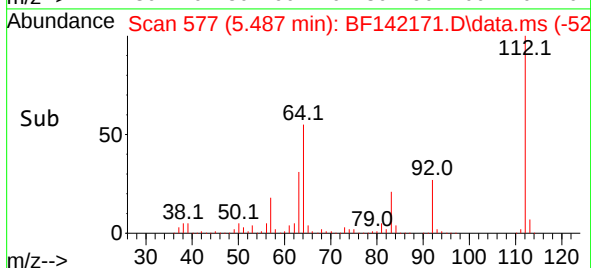
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#5
2-Fluorophenol
Concen: 92.876 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31



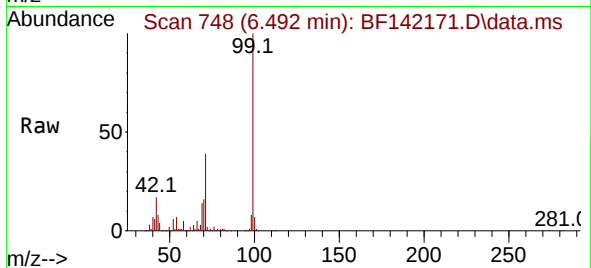
Tgt Ion:112 Resp: 690208
Ion Ratio Lower Upper
112 100
64 55.4 46.5 69.7
63 30.6 25.4 38.2





#7
Phenol-d6
Concen: 88.809 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

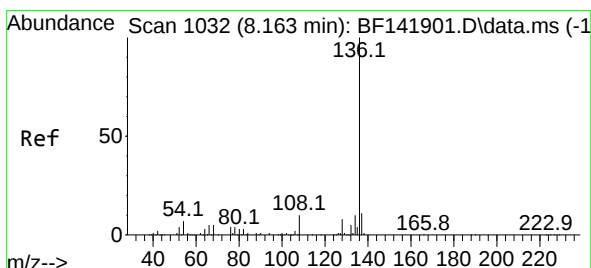
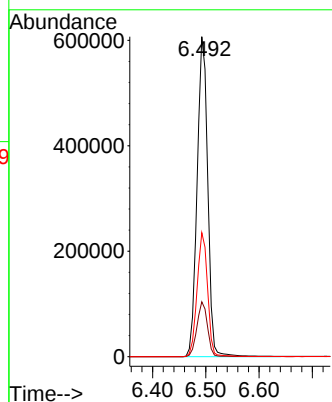
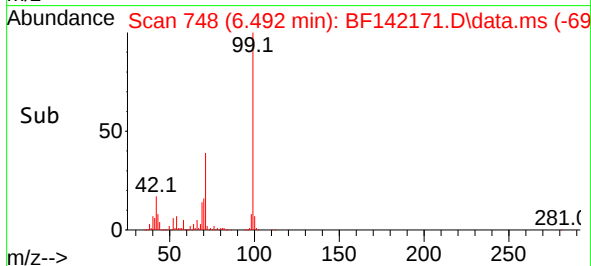
Instrument :
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ClientSampleId :
STOCK-PILE-BIN2



Tgt Ion: 99 Resp: 840309
Ion Ratio Lower Upper
99 100
42 17.1 14.6 21.8
71 38.7 30.8 46.2

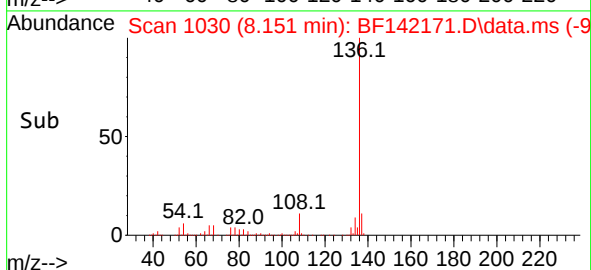
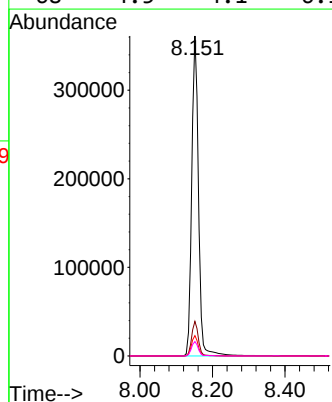
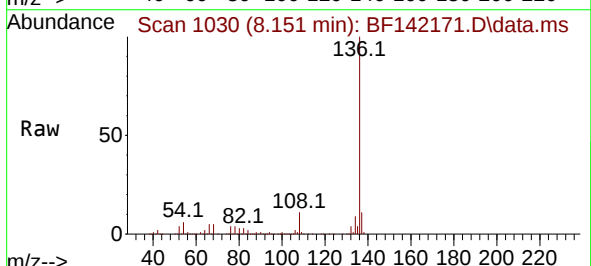
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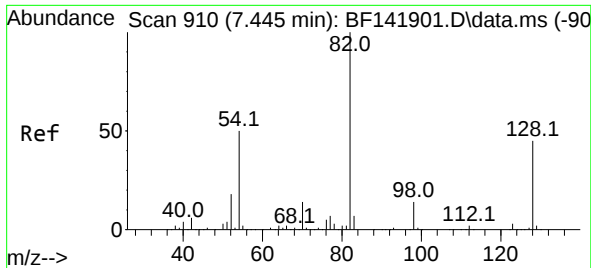
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Tgt Ion:136 Resp: 467807
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 6.4 5.8 8.8
68 4.5 4.1 6.1





#23
Nitrobenzene-d5
Concen: 65.836 ng
RT: 7.434 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Instrument :

BNA_F

ClientSampleId :

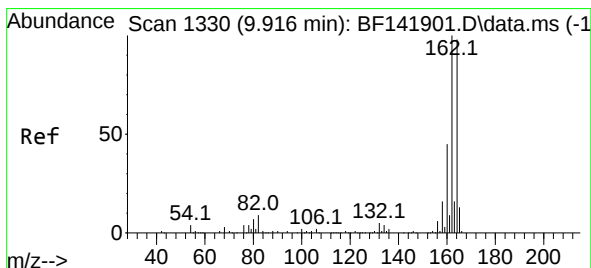
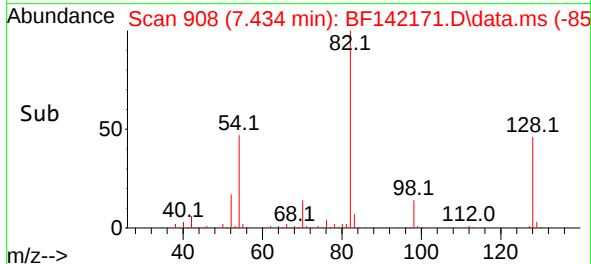
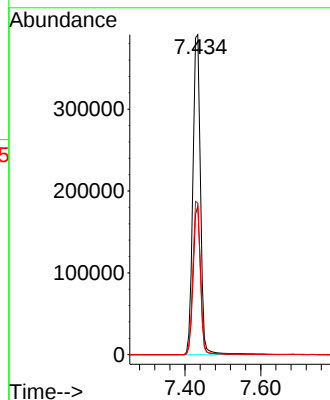
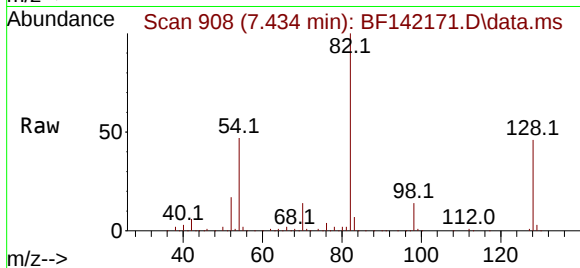
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Tgt Ion: 82 Resp: 547280
Ion Ratio Lower Upper
82 100
128 46.4 36.0 54.0
54 47.3 39.6 59.4

Manual Integrations

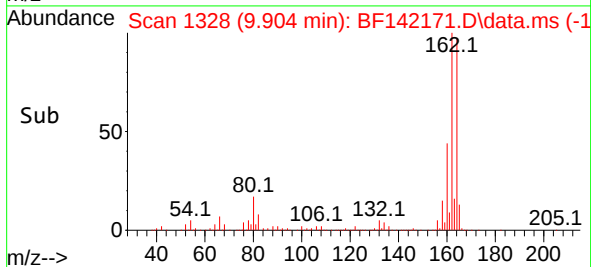
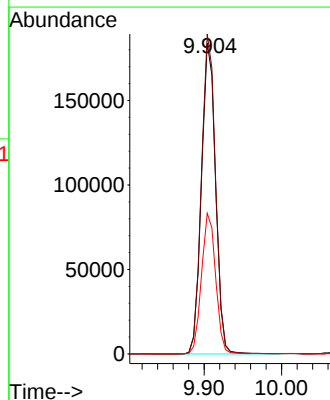
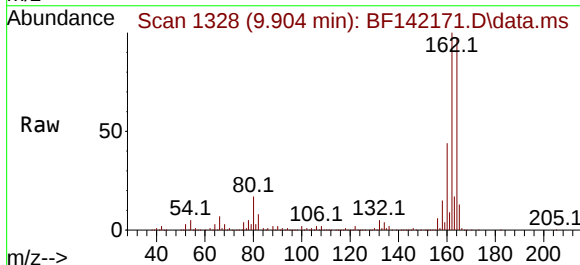
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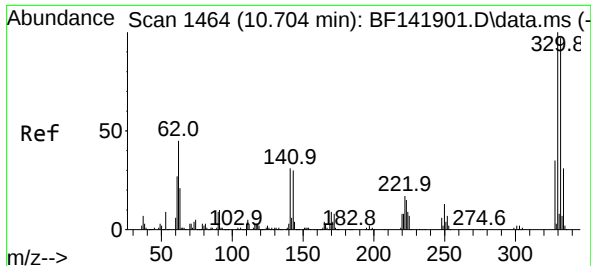
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Tgt Ion:164 Resp: 232192
Ion Ratio Lower Upper
164 100
162 102.9 81.8 122.6
160 45.3 36.7 55.1





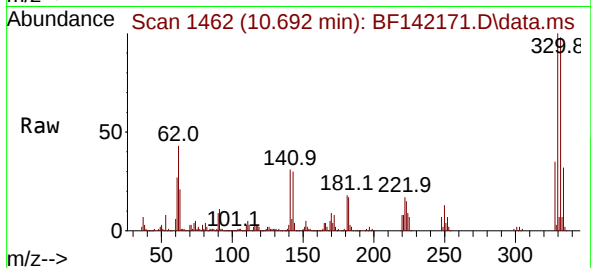
#42
2,4,6-Tribromophenol
Concen: 73.402 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-BIN2

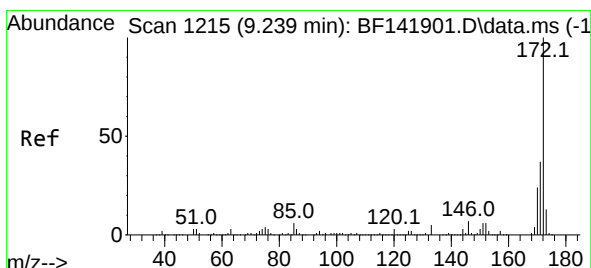
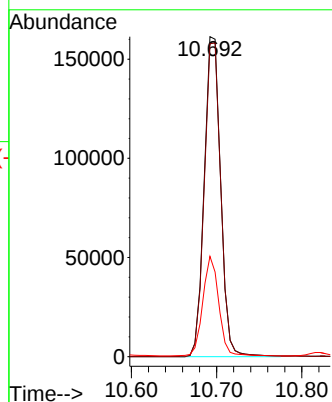
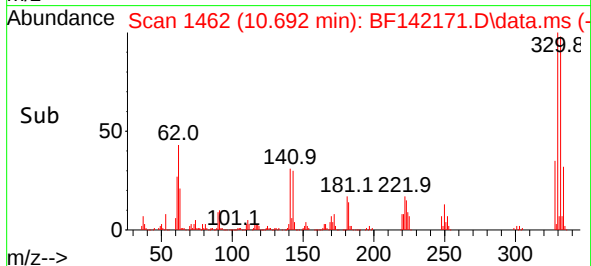


Tgt Ion: 330 Resp: 21621
Ion Ratio Lower Upper
330 100
332 98.4 77.6 116.4
141 30.2 24.7 37.1

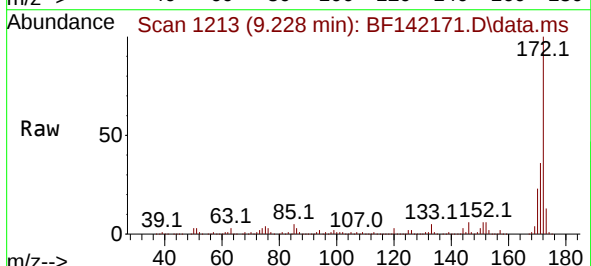
Manual Integrations

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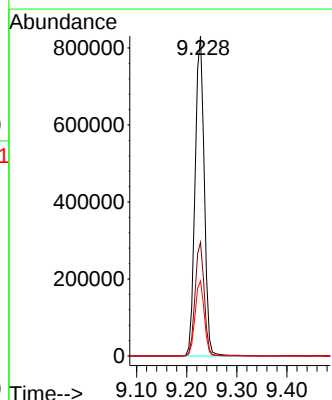
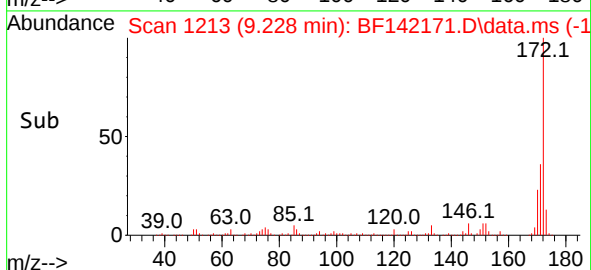
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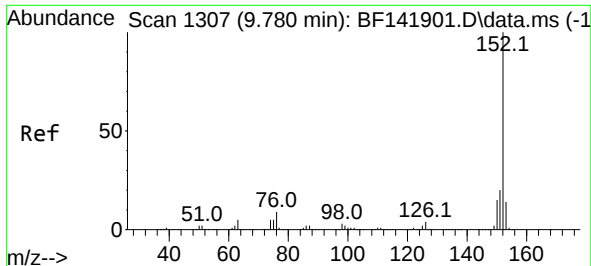


#45
2-Fluorobiphenyl
Concen: 69.013 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31



Tgt Ion: 172 Resp: 1053672
Ion Ratio Lower Upper
172 100
171 35.6 29.3 43.9
170 23.4 19.4 29.0





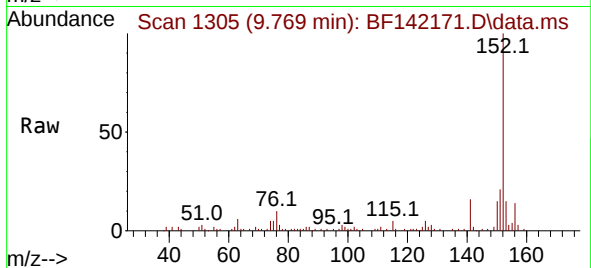
#49
Acenaphthylene
Concen: 2.333 ng
RT: 9.769 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Instrument :

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STOCK-PILE-BIN2

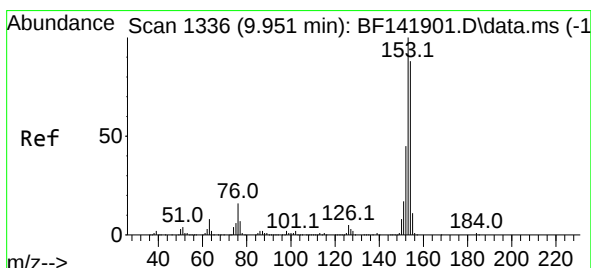
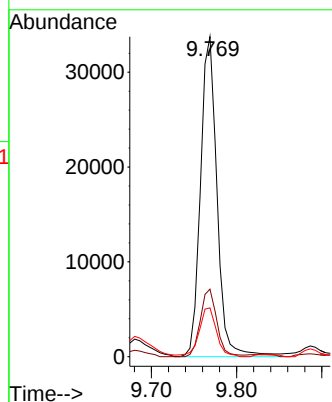
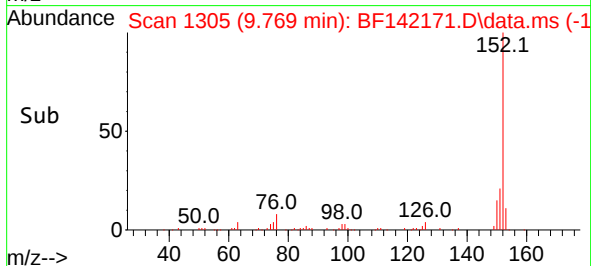


Tgt Ion:152 Resp: 45530
Ion Ratio Lower Upper
152 100
151 21.1 16.3 24.5
153 15.2 11.1 16.7

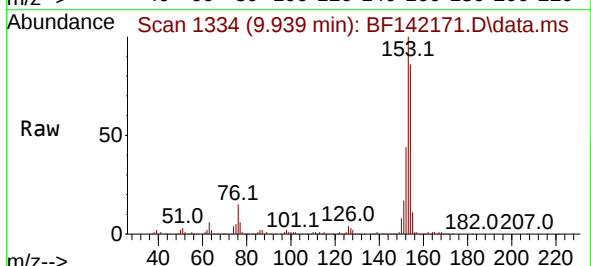
Manual Integrations

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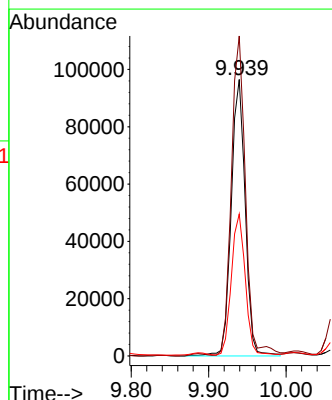
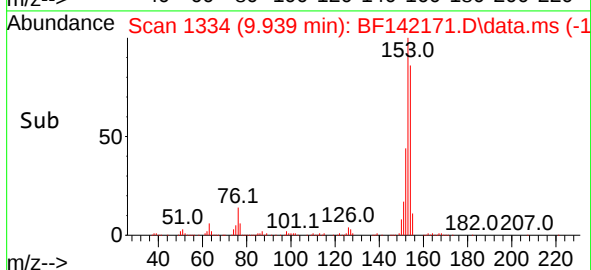
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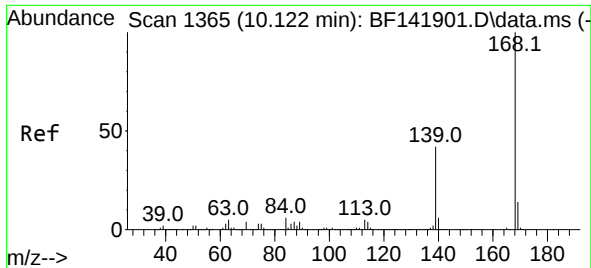


#52
Acenaphthene
Concen: 8.861 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31



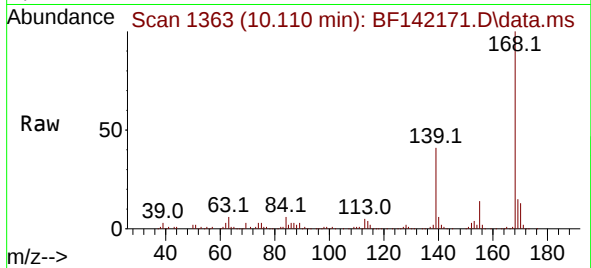
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Ion Ratio Lower Upper
154 100
153 115.8 90.7 136.1
152 51.3 41.1 61.7





#55
Dibenzenofuran
Concen: 5.480 ng
RT: 10.110 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

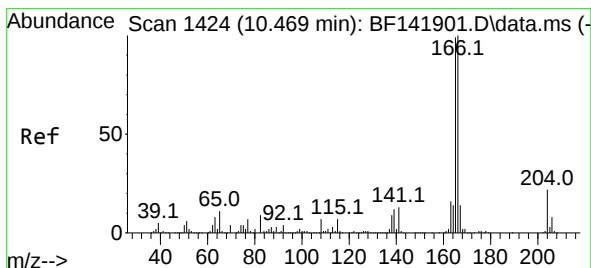
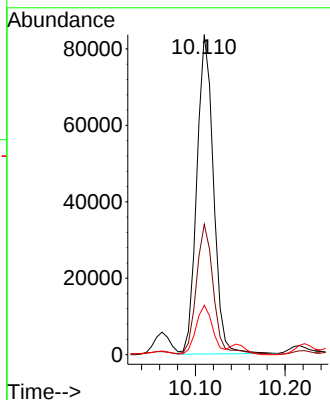
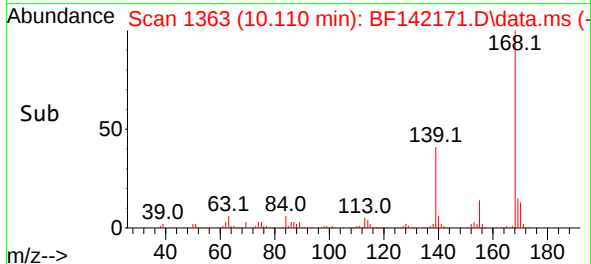
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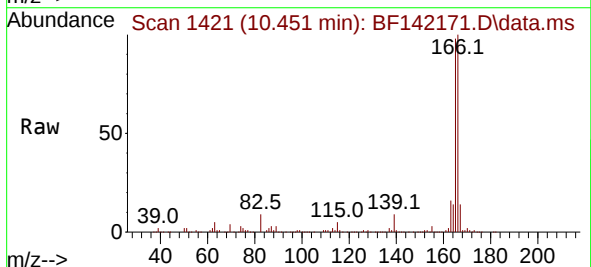
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Ion Ratio Lower Upper
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139 40.7 33.9 50.9
169 15.5 11.0 16.4

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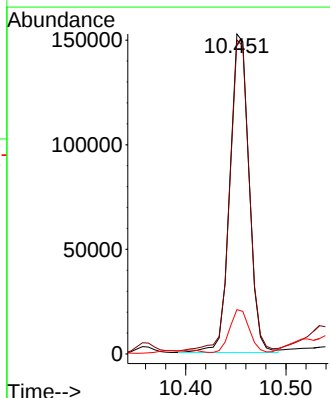
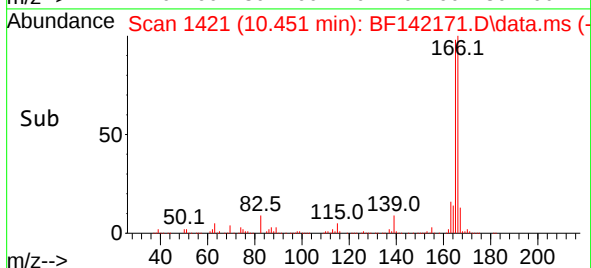
Reviewed By :Anahy Claudio 03/31/2025
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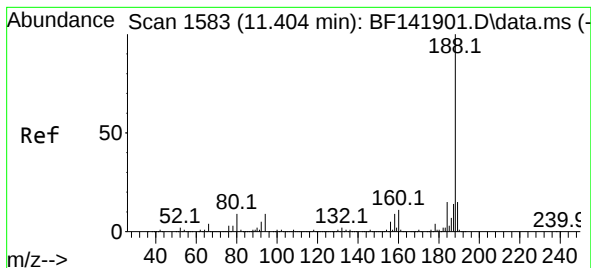


#58
Fluorene
Concen: 13.379 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.018 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31



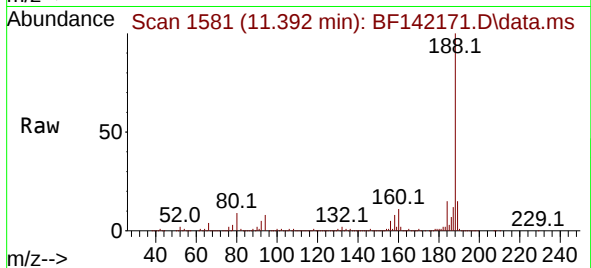
Tgt Ion:166 Resp: 202170
Ion Ratio Lower Upper
166 100
165 98.1 79.0 118.4
167 13.9 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1583
Delta R.T. -0.012 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

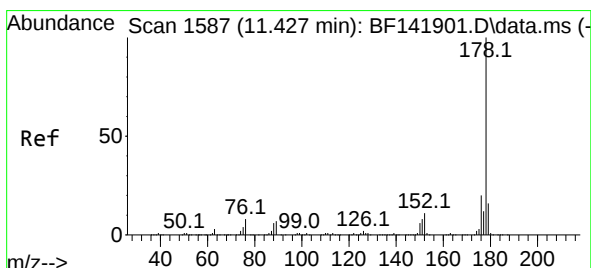
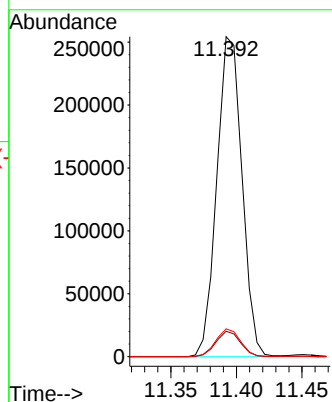
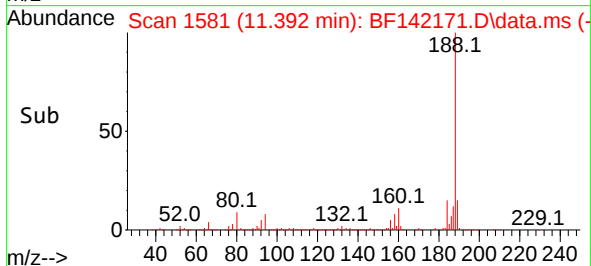
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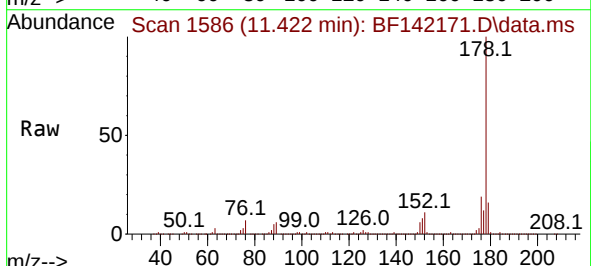
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Ion Ratio Lower Upper
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94 7.9 6.8 10.2
80 8.7 7.6 11.4

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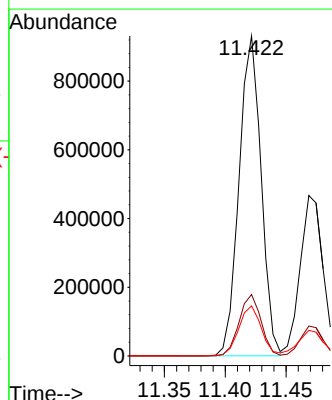
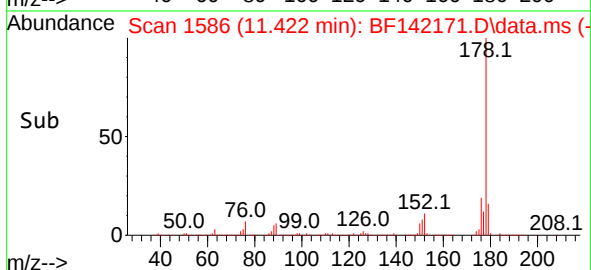
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

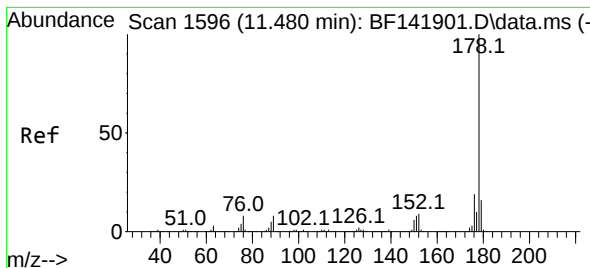


#71
Phenanthrene
Concen: 64.060 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31



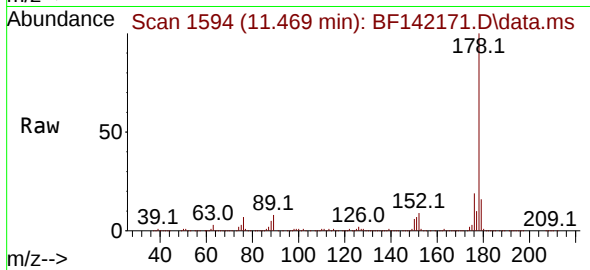
Tgt Ion:178 Resp: 1174454
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 15.6 12.6 19.0





#72
 Anthracene
 Concen: 33.465 ng
 RT: 11.469 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF142171.D
 Acq: 28 Mar 2025 20:31

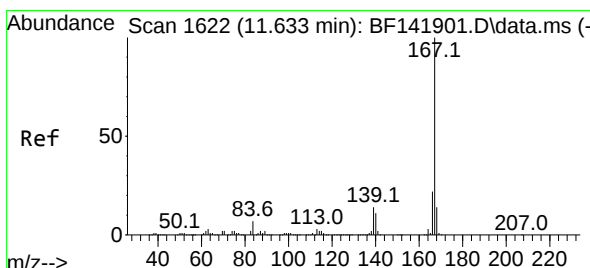
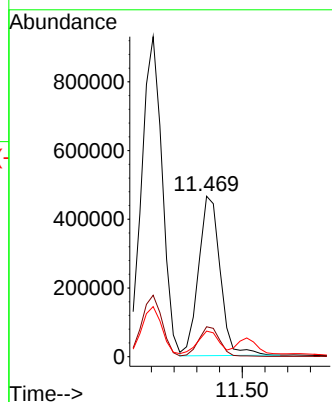
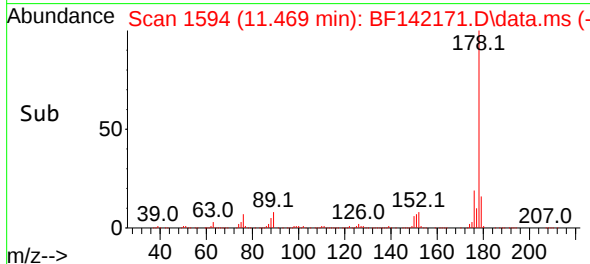
Instrument :
 BNA_F
 ClientSampleId :
 STOCK-PILE-BIN2



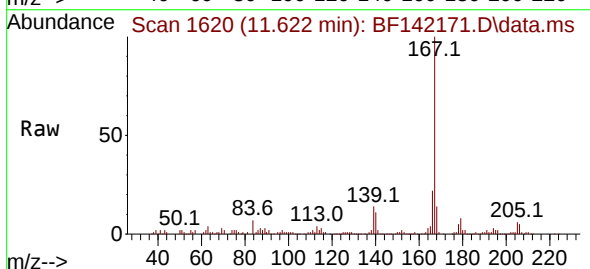
Tgt Ion:178 Resp: 615529
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.1 22.7
 179 16.0 12.6 19.0

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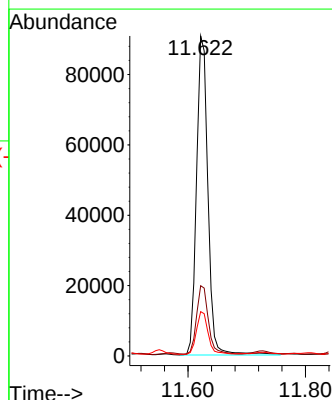
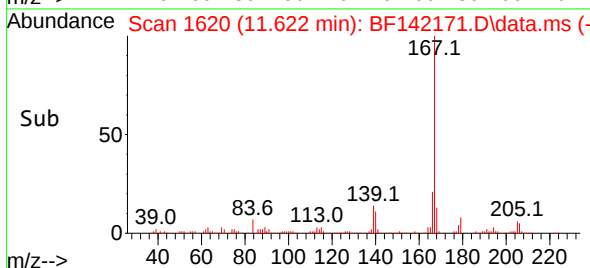
Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025

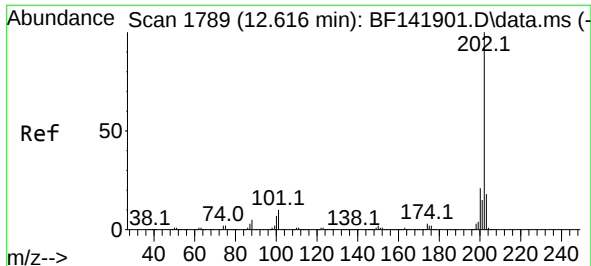


#73
 Carbazole
 Concen: 7.693 ng
 RT: 11.622 min Scan# 1620
 Delta R.T. -0.012 min
 Lab File: BF142171.D
 Acq: 28 Mar 2025 20:31



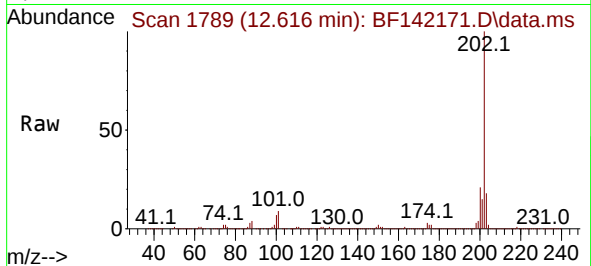
Tgt Ion:167 Resp: 122030
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.4 26.2
 139 13.8 11.0 16.6





#75
Fluoranthene
Concen: 129.013 ng
RT: 12.616 min Scan# 1789
Delta R.T. 0.000 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

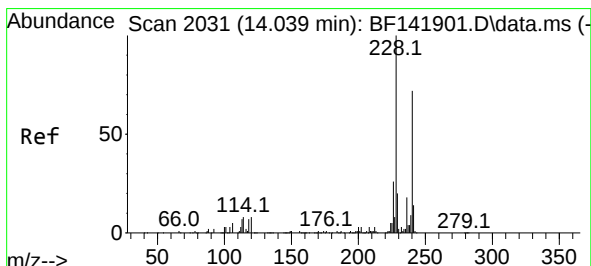
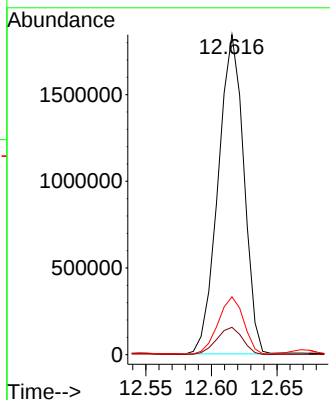
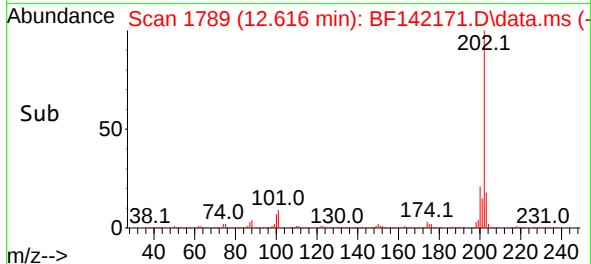
Instrument :
BNA_F
ClientSampleId :
STOCK-PILE-BIN2



Tgt Ion:202 Resp: 250900
Ion Ratio Lower Upper
202 100
101 8.5 0.0 29.7
203 18.1 0.0 37.8

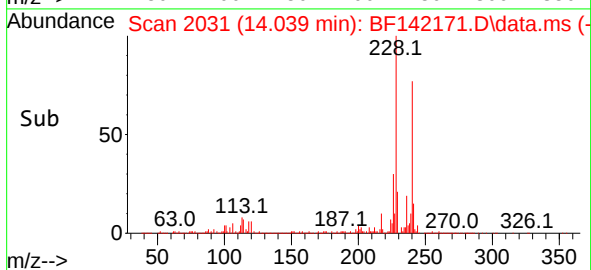
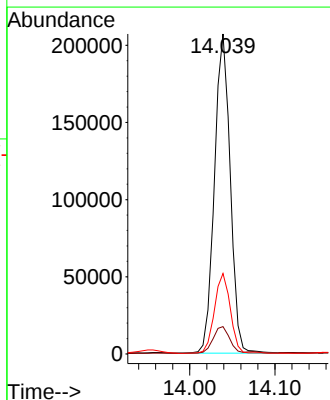
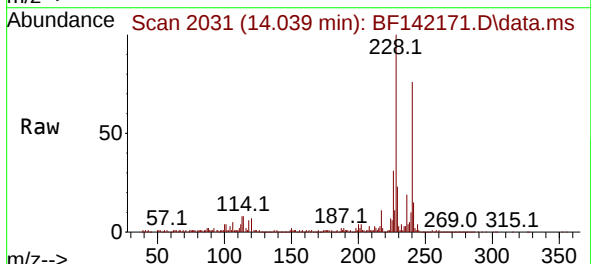
Manual Integrations
APPROVED

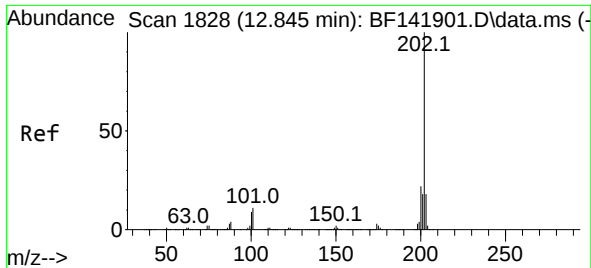
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

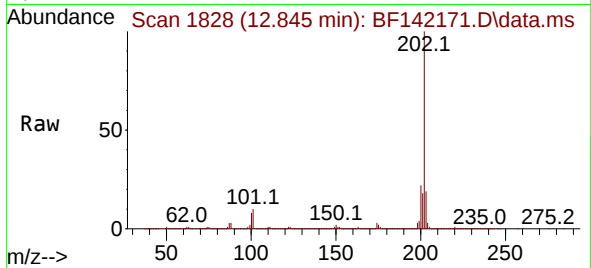
Tgt Ion:240 Resp: 266213
Ion Ratio Lower Upper
240 100
120 8.6 8.4 12.6
236 25.1 20.5 30.7





#78
Pyrene
Concen: 74.619 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

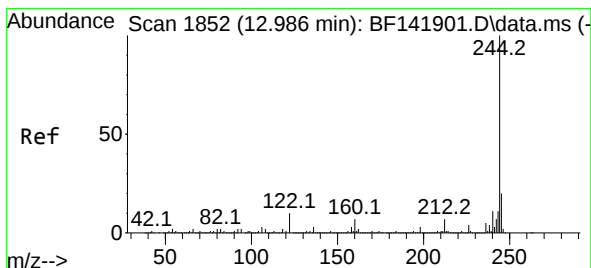
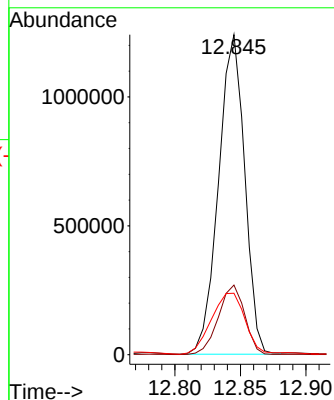
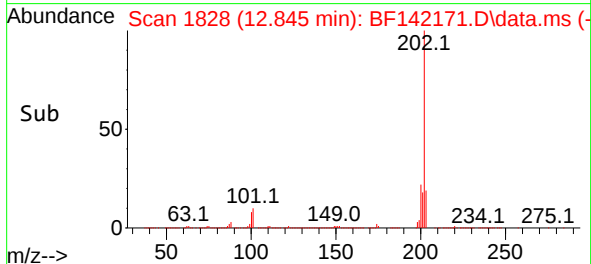
Instrument :
BNA_F
ClientSampleId :
STOCK-PILE-BIN2



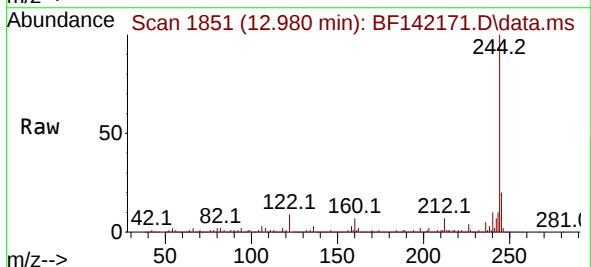
Tgt Ion:202 Resp: 171830
Ion Ratio Lower Upper
202 100
200 21.7 17.3 25.9
203 19.2 14.4 21.6

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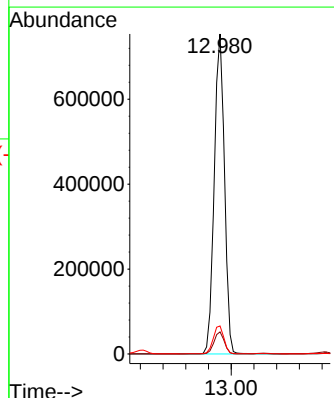
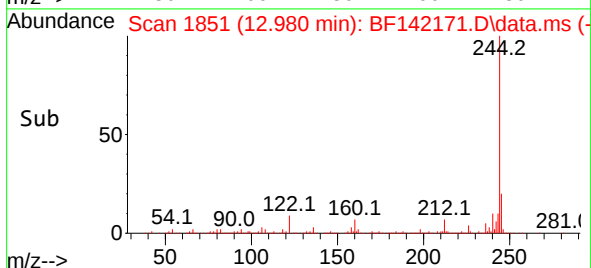
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

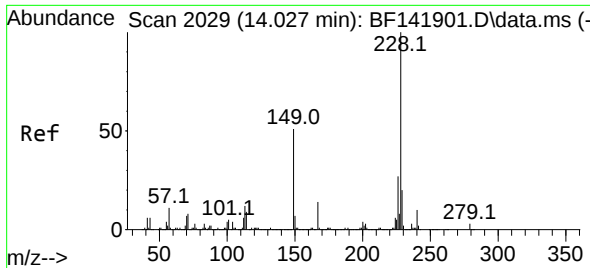


#79
Terphenyl-d14
Concen: 52.087 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31



Tgt Ion:244 Resp: 937885
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 8.8 7.7 11.5





#81
Benzo(a)anthracene
Concen: 41.067 ng
RT: 14.027 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Instrument :

BNA_F

ClientSampleId :

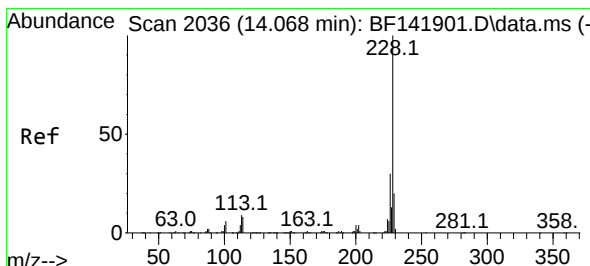
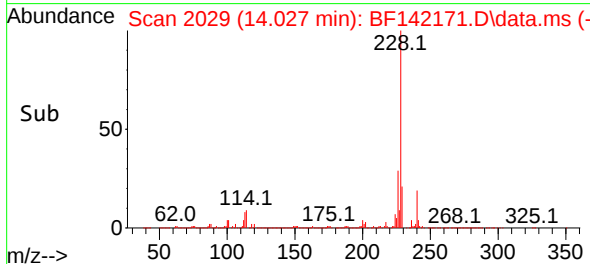
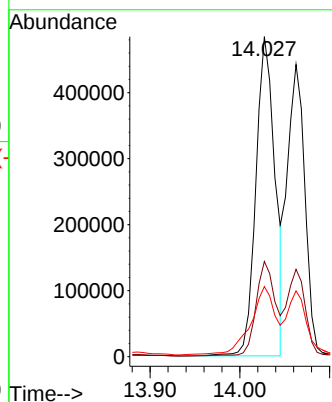
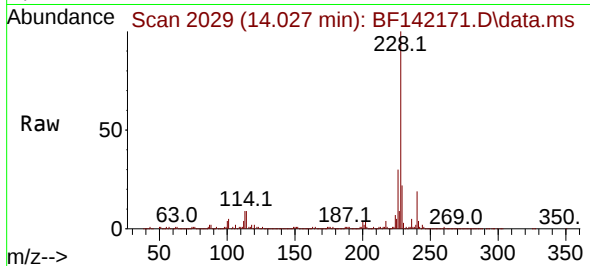
STOCK-PILE-BIN2

Tgt Ion:228 Resp: 717394
Ion Ratio Lower Upper
228 100
226 29.7 21.8 32.8
229 21.9 16.0 24.0

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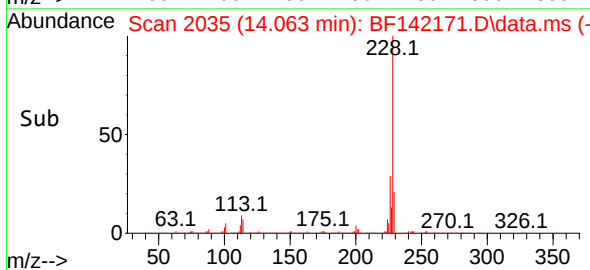
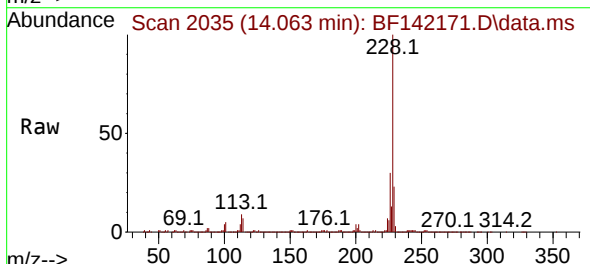
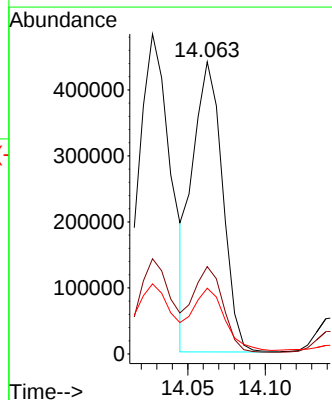
APPROVED

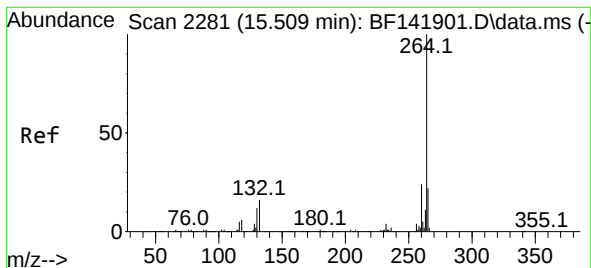
Reviewed By :Anahy Claudio 03/31/2025
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#83
Chrysene
Concen: 37.414 ng
RT: 14.063 min Scan# 2035
Delta R.T. -0.006 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

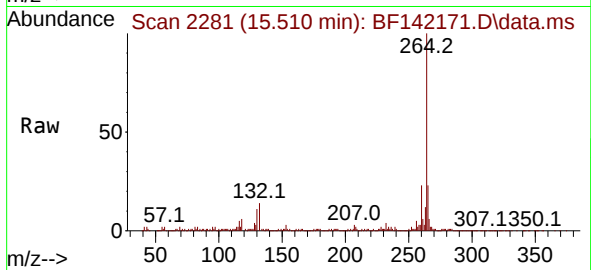
Tgt Ion:228 Resp: 592451
Ion Ratio Lower Upper
228 100
226 29.9 24.1 36.1
229 22.5 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 21835
Delta R.T. 0.000 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

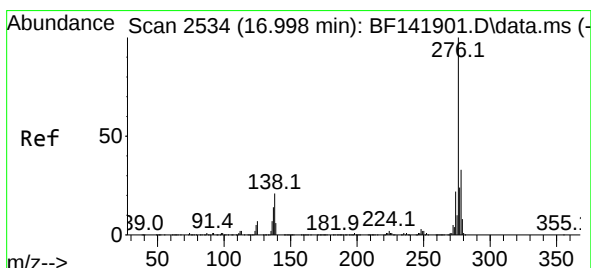
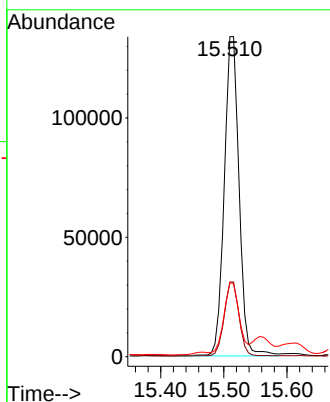
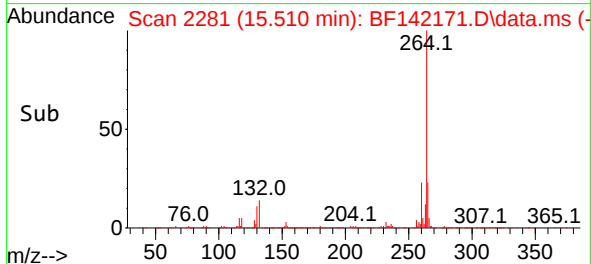
Instrument :
BNA_F
ClientSampleId :
STOCK-PILE-BIN2



Tgt Ion:264 Resp: 21835
Ion Ratio Lower Upper
264 100
260 23.4 19.1 28.7
265 23.1 17.5 26.3

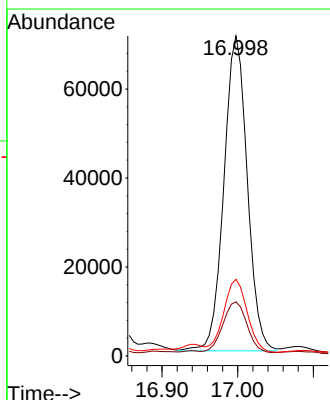
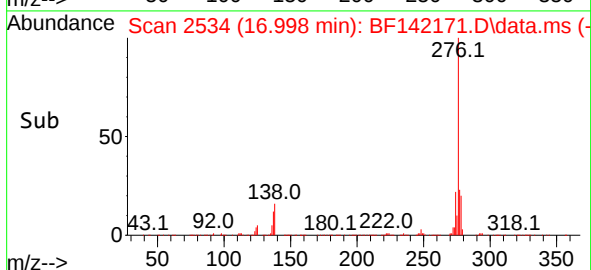
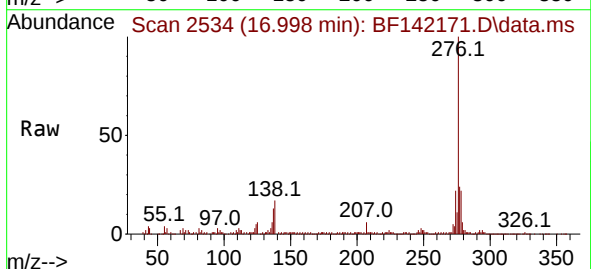
Manual Integrations
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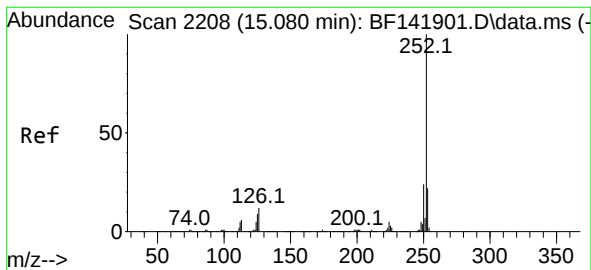
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 10.747 ng m
RT: 16.998 min Scan# 2534
Delta R.T. 0.000 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Tgt Ion:276 Resp: 151802
Ion Ratio Lower Upper
276 100
138 4.0 18.4 27.6#
277 5.0 20.3 30.5#





#88

Benzo(b)fluoranthene

Concen: 38.674 ng m

RT: 15.080 min Scan# 2208

Delta R.T. 0.000 min

Lab File: BF142171.D

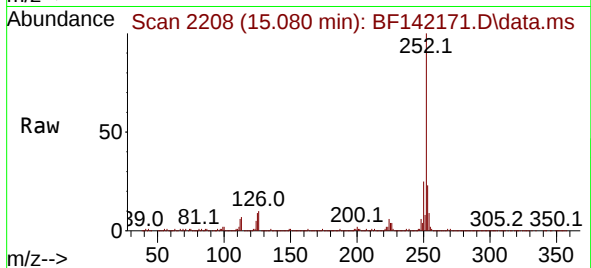
Acq: 28 Mar 2025 20:31

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-BIN2



Tgt Ion:252 Resp: 578778

Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

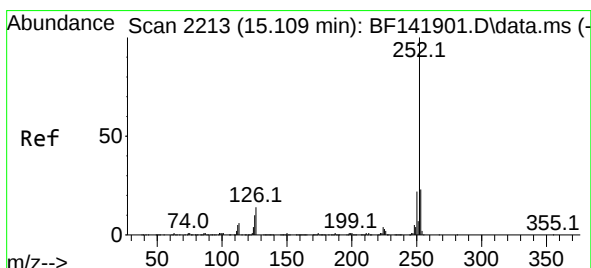
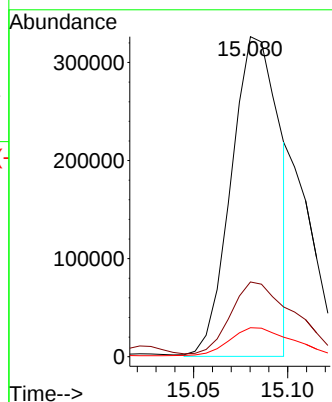
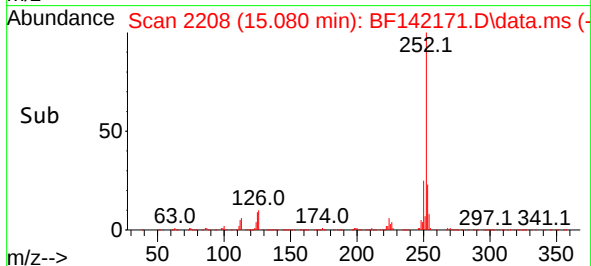
125 9.1 7.0 10.4

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025



#89

Benzo(k)fluoranthene

Concen: 14.274 ng m

RT: 15.098 min Scan# 2211

Delta R.T. -0.012 min

Lab File: BF142171.D

Acq: 28 Mar 2025 20:31

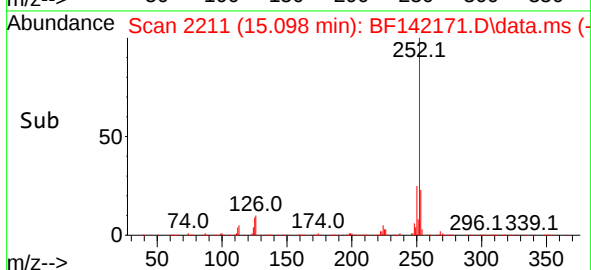
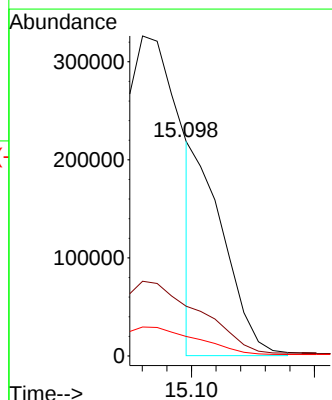
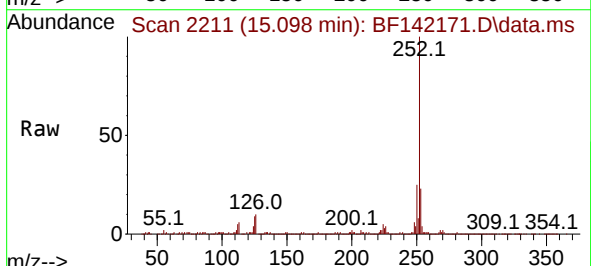
Tgt Ion:252 Resp: 182802

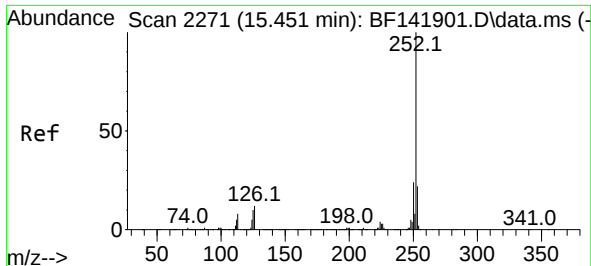
Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

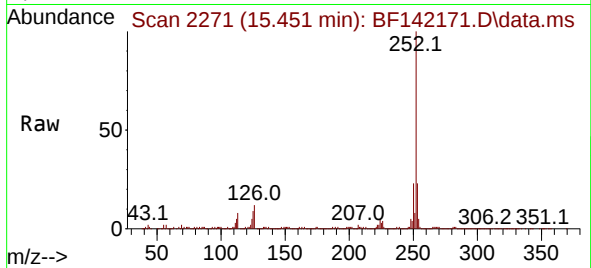
125 9.1 7.2 10.8





#90
Benzo(a)pyrene
Concen: 24.097 ng
RT: 15.451 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

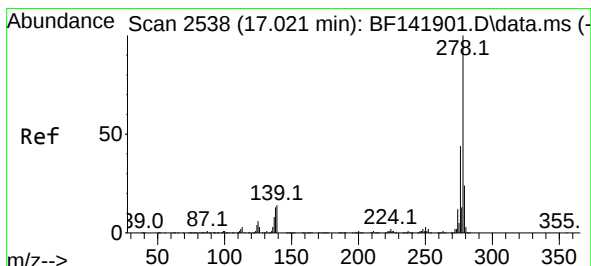
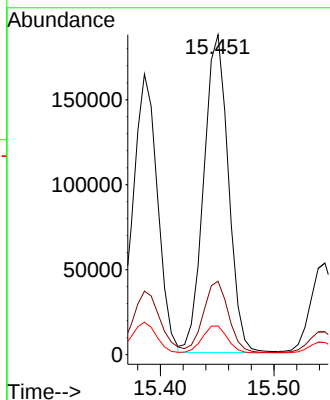
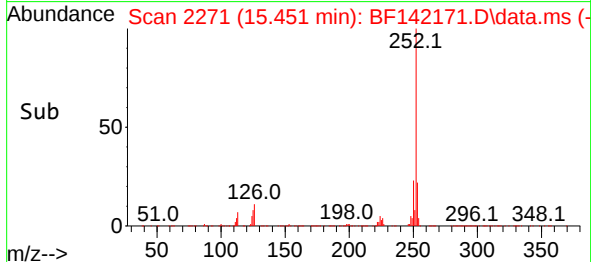
Instrument :
BNA_F
ClientSampleId :
STOCK-PILE-BIN2



Tgt Ion:252 Resp: 28217
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.0
125 9.0 7.8 11.8

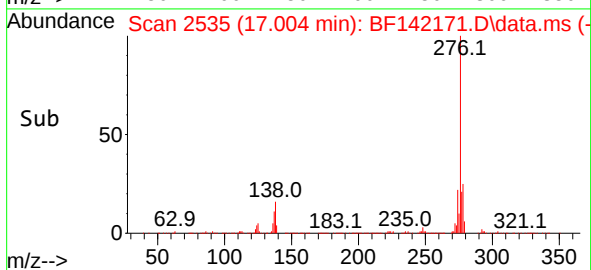
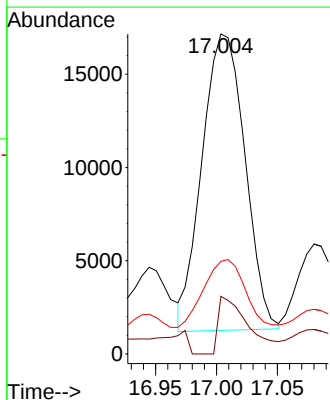
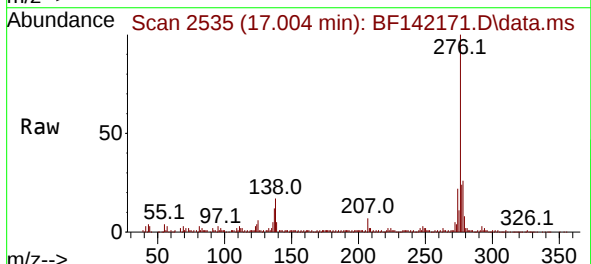
Manual Integrations
APPROVED

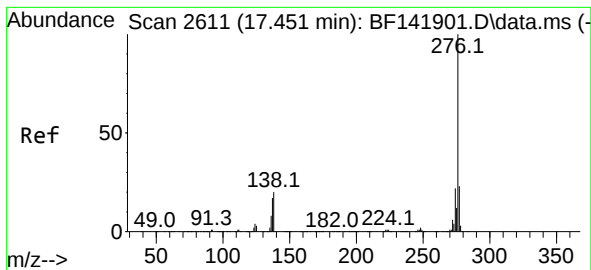
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#91
Dibenzo(a,h)anthracene
Concen: 3.346 ng
RT: 17.004 min Scan# 2535
Delta R.T. -0.018 min
Lab File: BF142171.D
Acq: 28 Mar 2025 20:31

Tgt Ion:278 Resp: 38997
Ion Ratio Lower Upper
278 100
139 18.0 11.4 17.2#
279 28.9 18.8 28.2#





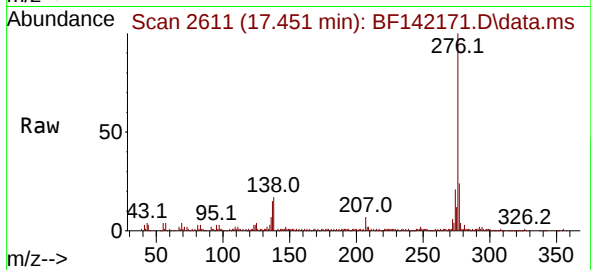
#92
 Benzo(g,h,i)perylene
 Concen: 12.112 ng
 RT: 17.451 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BF142171.D
 Acq: 28 Mar 2025 20:31

Instrument :

BNA_F

ClientSampleId :

STOCK-PILE-BIN2



Tgt Ion:276 Resp: 139499
 Ion Ratio Lower Upper
 276 100
 277 23.7 18.7 28.1
 138 16.9 15.8 23.8

Manual Integrations

APPROVED

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

