

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100225\
 Data File : BF143872.D
 Acq On : 02 Oct 2025 23:30
 Operator : RC/JU
 Sample : Q3249-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-3(0-0.5)R

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/03/2025
 Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 03 01:31:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 05:00:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	92441	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	333307	20.000	ng	# 0.00
39) Acenaphthene-d10	9.922	164	203877	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	302675	20.000	ng	0.00
76) Chrysene-d12	14.057	240	365465	20.000	ng	0.00
86) Perylene-d12	15.539	264	486634	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	118300	20.792	ng	0.00
7) Phenol-d6	6.498	99	103632	15.764	ng	-0.01
23) Nitrobenzene-d5	7.440	82	60714	11.150	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	26961	8.931	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	162787	12.460	ng	0.00
79) Terphenyl-d14	12.992	244	184608	10.273	ng	-0.01
Target Compounds						Qvalue
38) 1-Methylnaphthalene	8.975	142	23997	2.464	ng	100
52) Acenaphthene	9.951	154	39047	3.628	ng	100
58) Fluorene	10.469	166	46503	4.110	ng	99
71) Phenanthrene	11.433	178	744199	47.892	ng	99
72) Anthracene	11.486	178	116438	7.470	ng	99
73) Carbazole	11.639	167	36140	2.652	ng	98
75) Fluoranthene	12.627	202	783300	50.118	ng	98
78) Pyrene	12.857	202	956305	53.223	ng	98
81) Benzo(a)anthracene	14.045	228	589429	30.022	ng	97
83) Chrysene	14.080	228	592992	33.379	ng	97
87) Indeno(1,2,3-cd)pyrene	17.021	276	237815	6.441	ng	96
88) Benzo(b)fluoranthene	15.104	252	614563m	24.799	ng	
89) Benzo(k)fluoranthene	15.116	252	301889m	12.125	ng	
90) Benzo(a)pyrene	15.474	252	553246	23.750	ng	98
91) Dibenzo(a,h)anthracene	17.033	278	74685	2.473	ng	# 91
92) Benzo(g,h,i)perylene	17.474	276	219566	7.542	ng	# 96

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

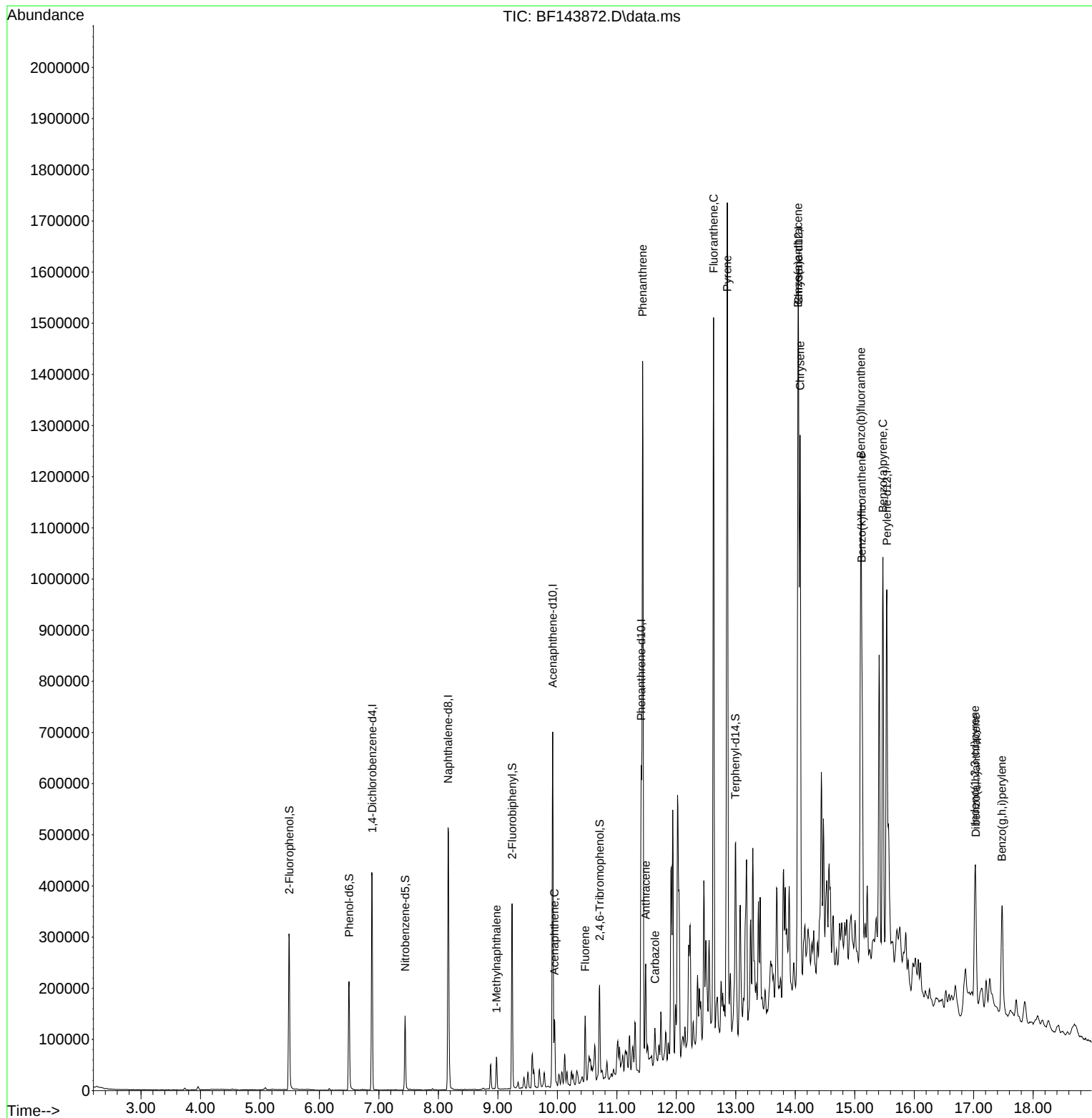
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100225\
Data File : BF143872.D
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Operator : RC/JU
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Misc :
ALS Vial : 21 Sample Multiplier: 1

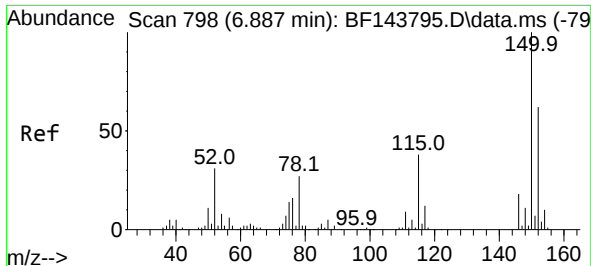
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Quant Time: Oct 03 01:31:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
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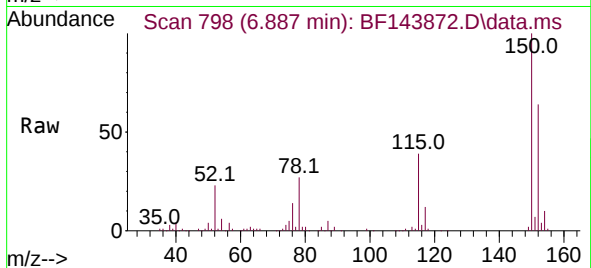
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

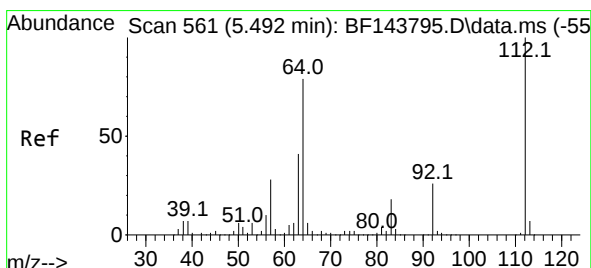
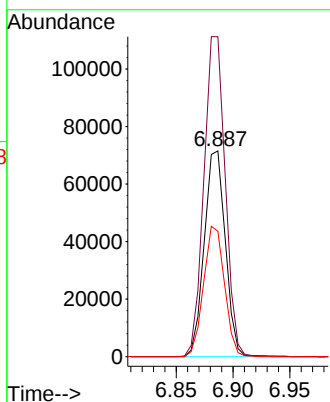
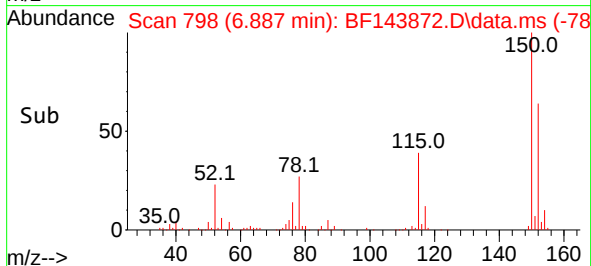
Instrument :
BNA_F
ClientSampleId :
S-3(0-0.5)R



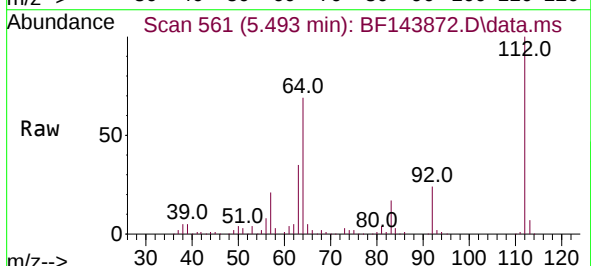
Tgt Ion:152 Resp: 92441
Ion Ratio Lower Upper
152 100
150 155.5 129.6 194.4
115 61.0 49.0 73.4

Manual Integrations
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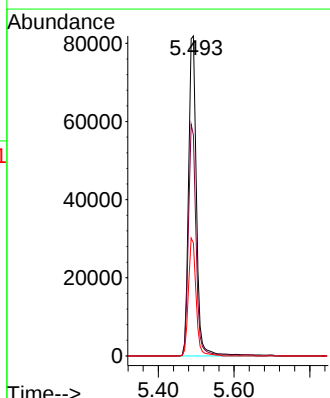
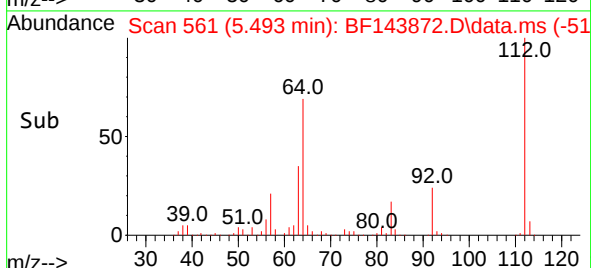
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#5
2-Fluorophenol
Concen: 20.792 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.005 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30



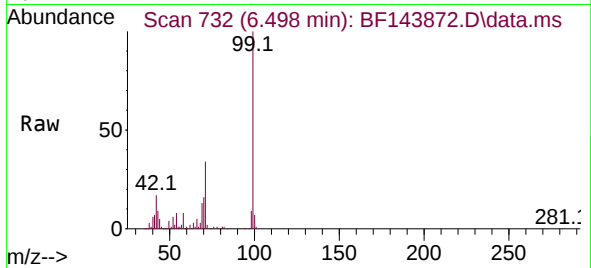
Tgt Ion:112 Resp: 118300
Ion Ratio Lower Upper
112 100
64 69.0 63.0 94.4
63 35.3 32.6 49.0





#7
Phenol-d6
Concen: 15.764 ng
RT: 6.498 min Scan# 731
Delta R.T. -0.012 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

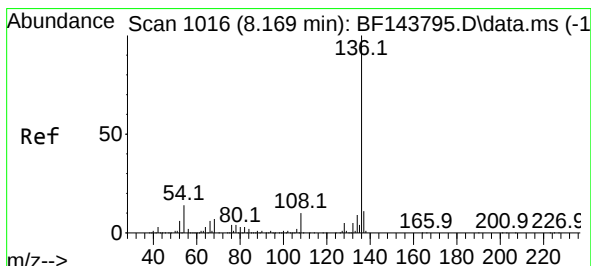
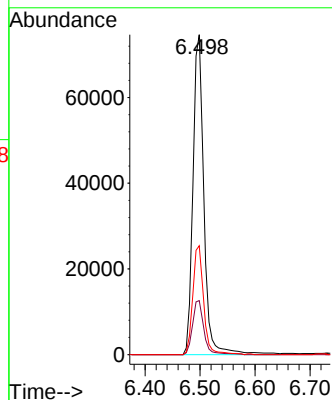
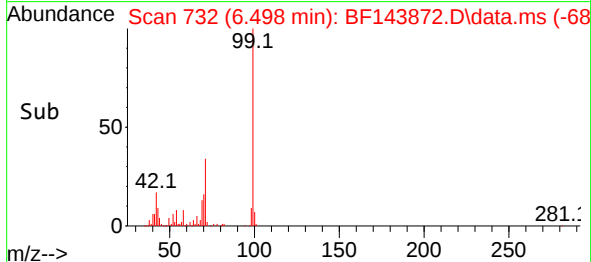
Instrument :
BNA_F
ClientSampleId :
S-3(0-0.5)R



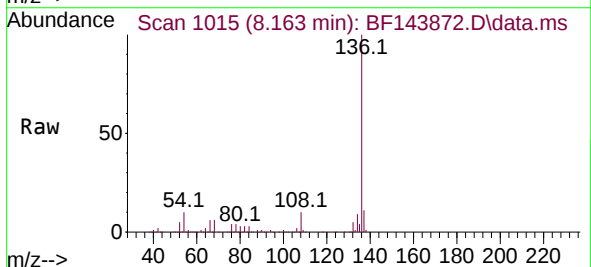
Tgt Ion: 99 Resp: 103632
Ion Ratio Lower Upper
99 100
42 16.9 18.6 28.0
71 34.0 27.0 40.4

Manual Integrations
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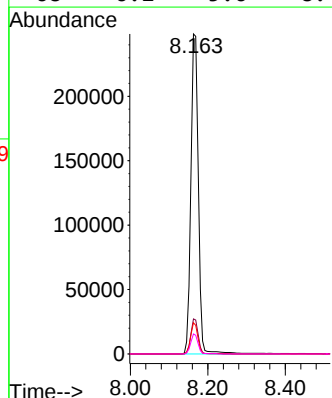
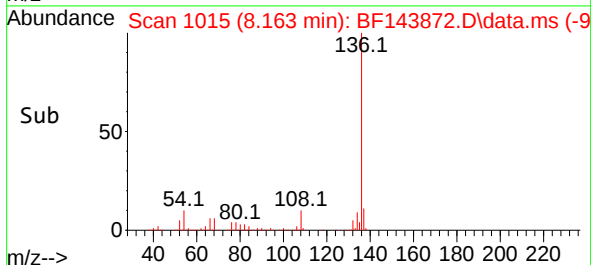
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

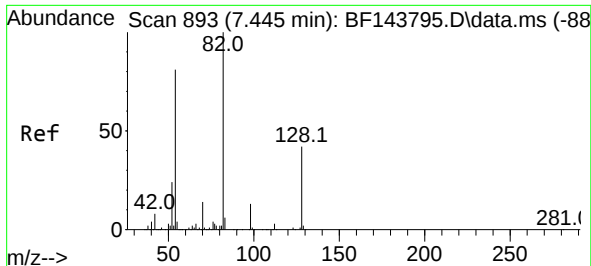


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30



Tgt Ion:136 Resp: 333307
Ion Ratio Lower Upper
136 100
137 10.9 9.0 13.4
54 9.7 11.2 16.8
68 6.2 5.6 8.4





#23

Nitrobenzene-d5

Concen: 11.150 ng

RT: 7.440 min Scan# 89

Delta R.T. -0.011 min

Lab File: BF143872.D

Acq: 02 Oct 2025 23:30

Instrument :

BNA_F

ClientSampleId :

S-3(0-0.5)R

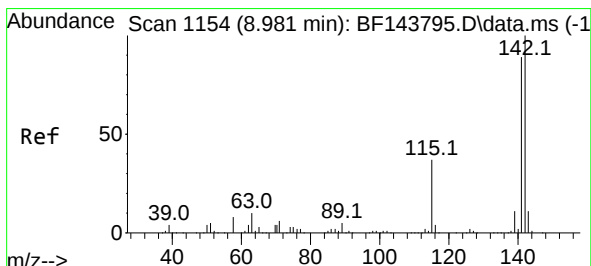
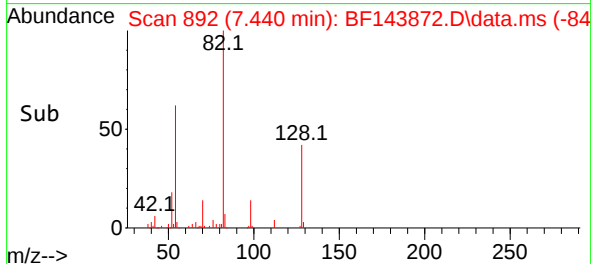
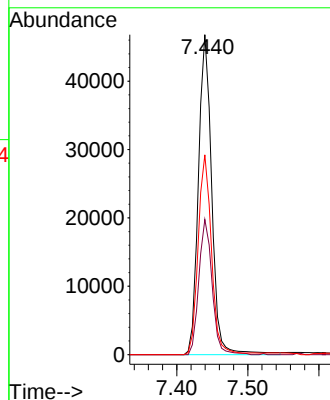
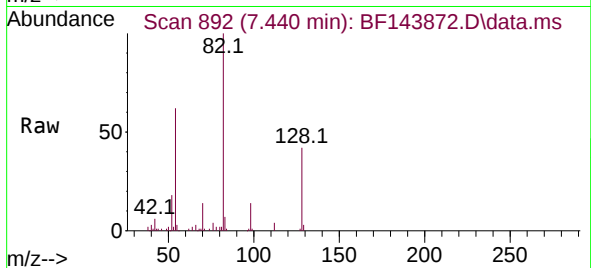
Tgt Ion: 82	Resp: 60714
Ion Ratio	Lower Upper
82 100	
128 42.2	33.3 49.9
54 62.4	64.2 96.4

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 2.464 ng

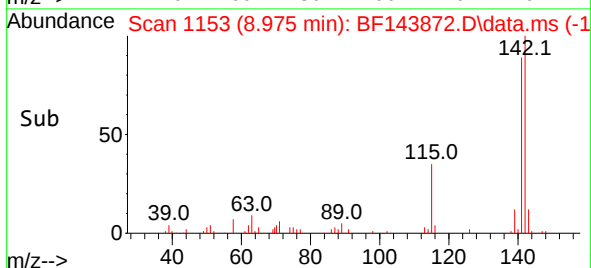
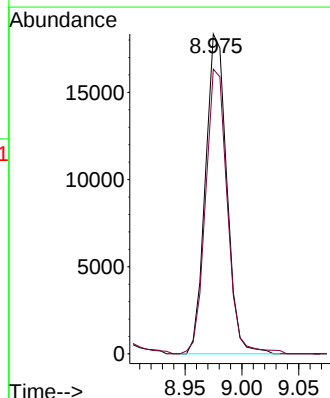
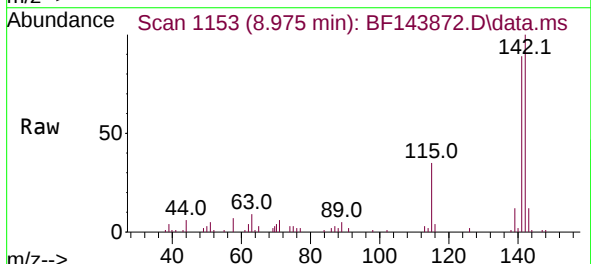
RT: 8.975 min Scan# 1153

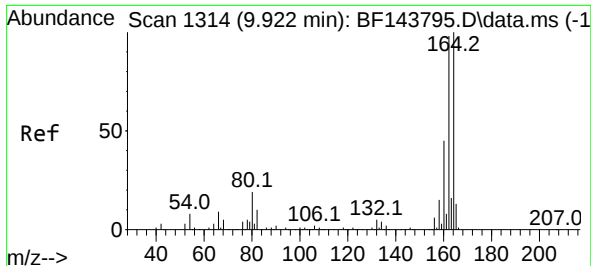
Delta R.T. -0.006 min

Lab File: BF143872.D

Acq: 02 Oct 2025 23:30

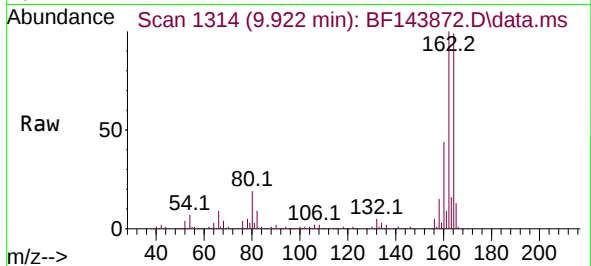
Tgt Ion:142	Resp: 23997
Ion Ratio	Lower Upper
142 100	
141 89.0	71.1 106.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

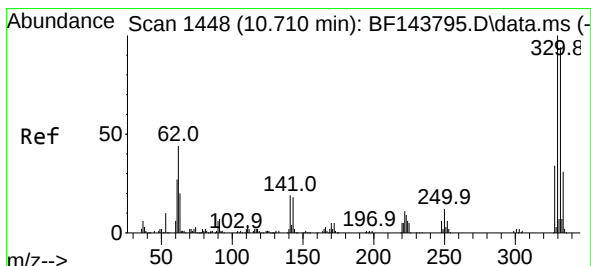
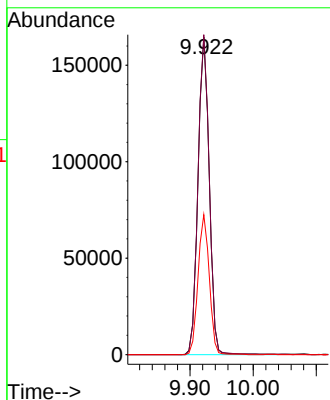
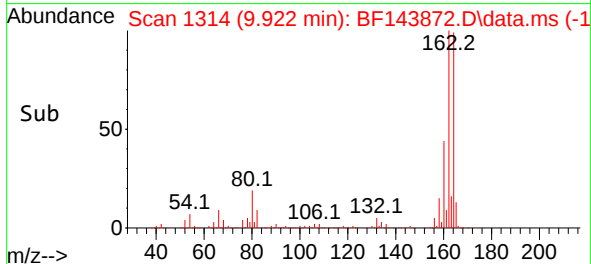
Instrument :
BNA_F
ClientSampleId :
S-3(0-0.5)R



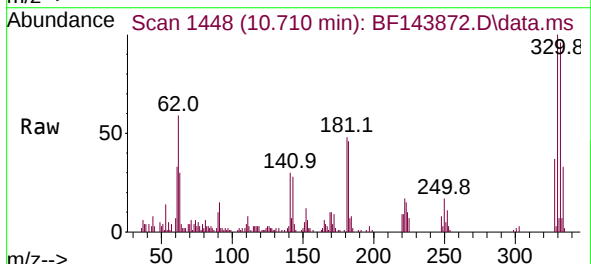
Tgt Ion:164 Resp: 203872
Ion Ratio Lower Upper
164 100
162 100.8 78.8 118.2
160 44.0 35.8 53.6

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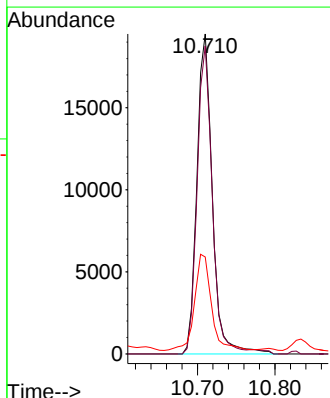
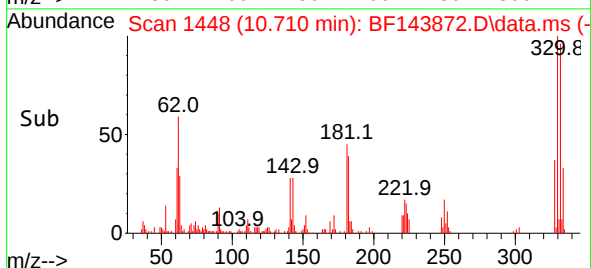
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

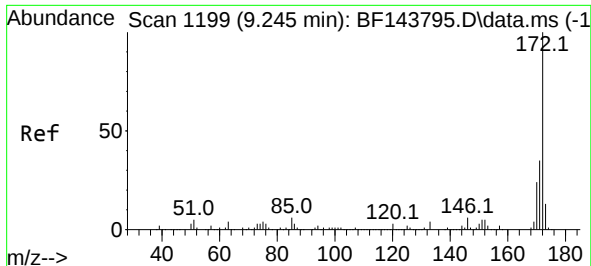


#42
2,4,6-Tribromophenol
Concen: 8.931 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30



Tgt Ion:330 Resp: 26961
Ion Ratio Lower Upper
330 100
332 94.0 74.7 112.1
141 32.9 14.3 21.5#





#45

2-Fluorobiphenyl

Concen: 12.460 ng

RT: 9.239 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF143872.D

Acq: 02 Oct 2025 23:30

Instrument :

BNA_F

ClientSampleId :

S-3(0-0.5)R

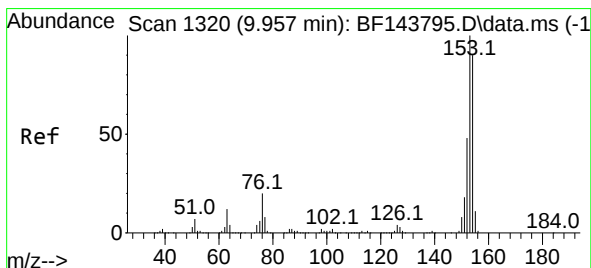
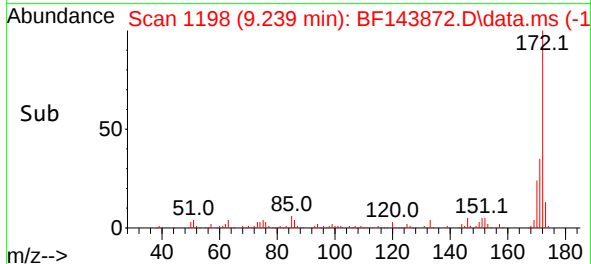
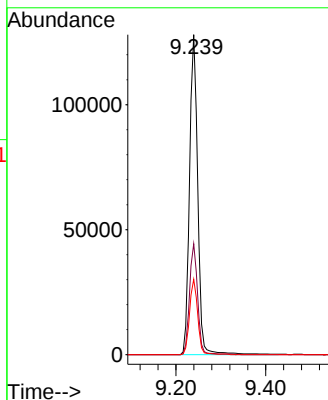
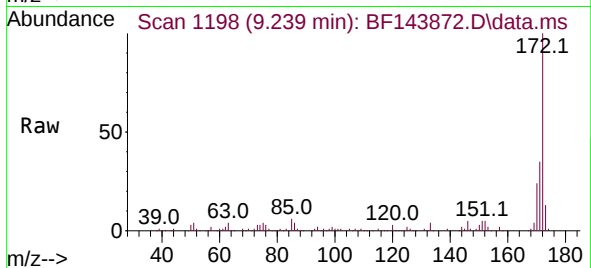
Tgt Ion:172 Resp: 162787
 Ion Ratio Lower Upper
 172 100
 171 34.6 27.9 41.9
 170 23.5 19.1 28.7

Manual Integrations

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#52

Acenaphthene

Concen: 3.628 ng

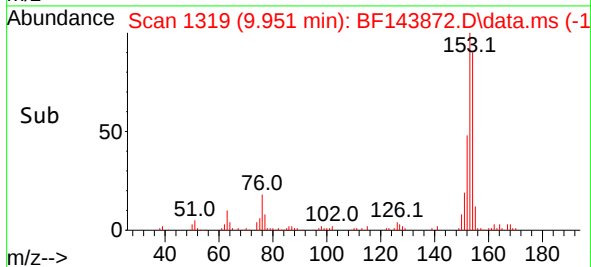
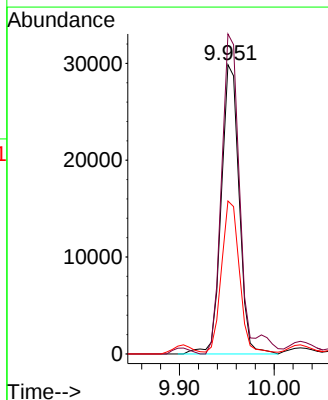
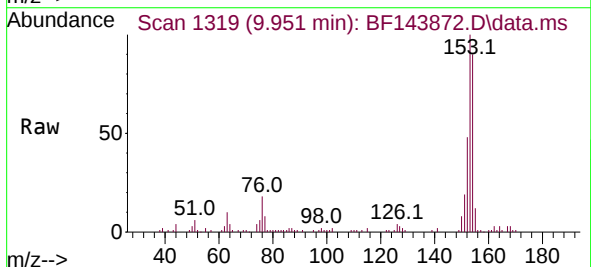
RT: 9.951 min Scan# 1319

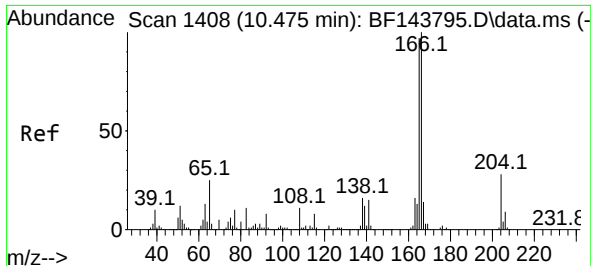
Delta R.T. -0.012 min

Lab File: BF143872.D

Acq: 02 Oct 2025 23:30

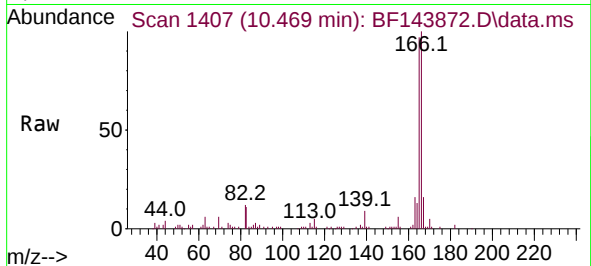
Tgt Ion:154 Resp: 39047
 Ion Ratio Lower Upper
 154 100
 153 110.6 88.7 133.1
 152 52.9 42.7 64.1





#58
Fluorene
Concen: 4.110 ng
RT: 10.469 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

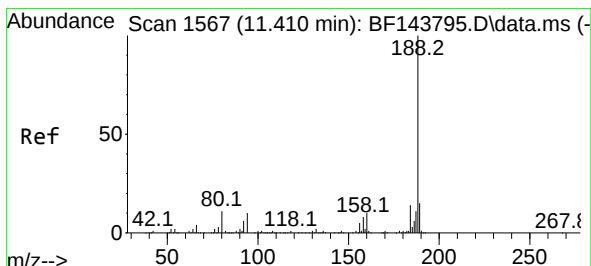
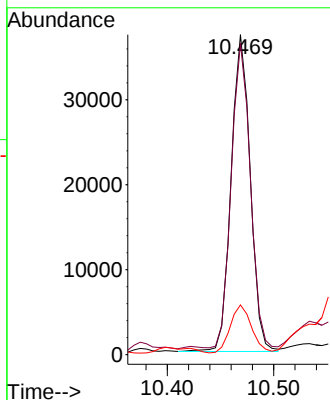
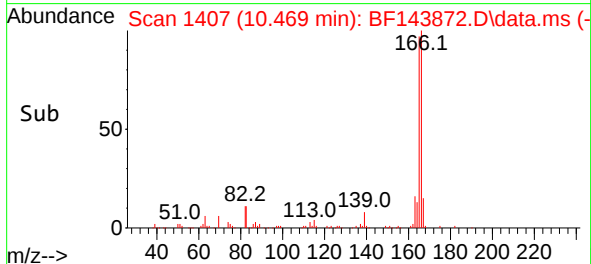
Instrument :
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ClientSampleId :
S-3(0-0.5)R



Tgt Ion:166 Resp: 46503
Ion Ratio Lower Upper
166 100
165 97.3 78.0 117.0
167 15.5 10.9 16.3

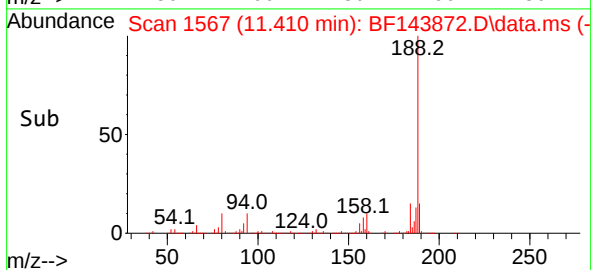
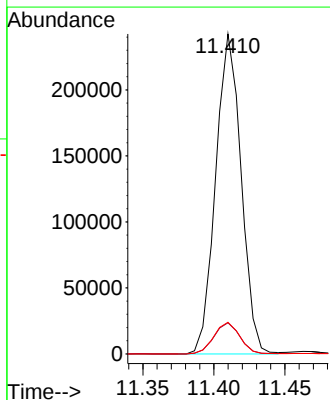
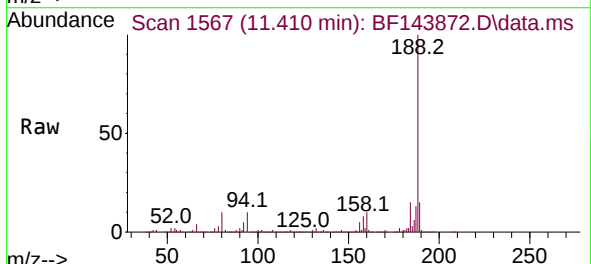
Manual Integrations
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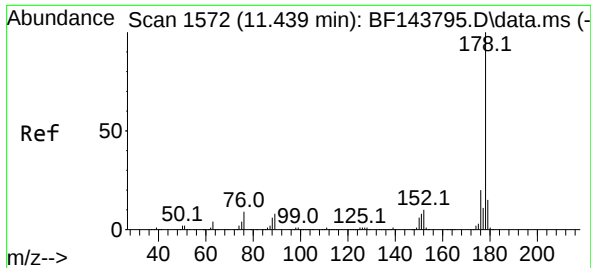
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

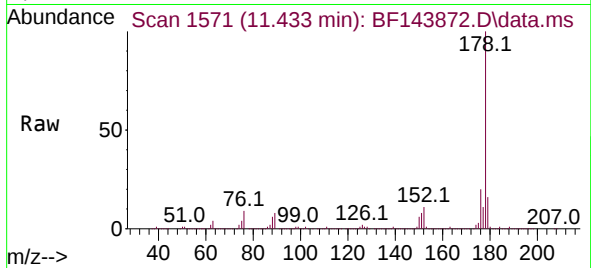
Tgt Ion:188 Resp: 302675
Ion Ratio Lower Upper
188 100
94 9.7 8.2 12.2
80 9.9 8.6 12.8





#71
Phenanthrene
Concen: 47.892 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

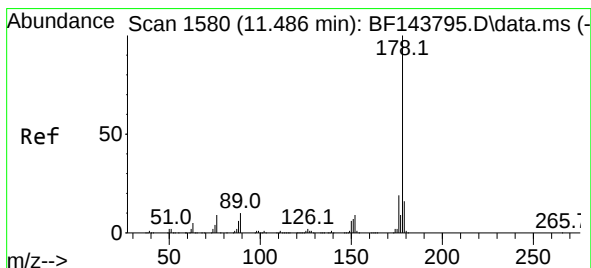
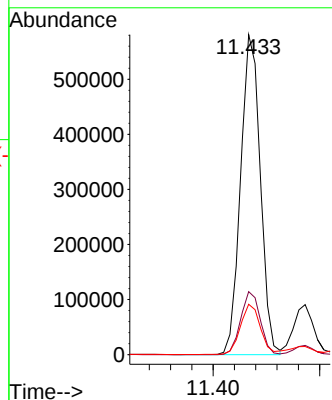
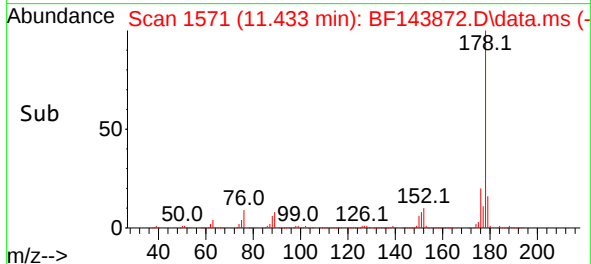
Instrument :
BNA_F
ClientSampleId :
S-3(0-0.5)R



Tgt Ion:178 Resp: 744199
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.7 12.2 18.4

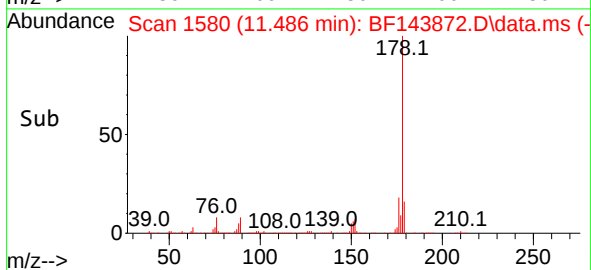
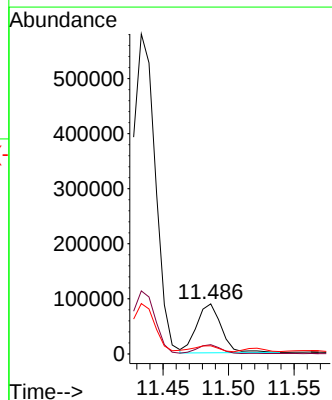
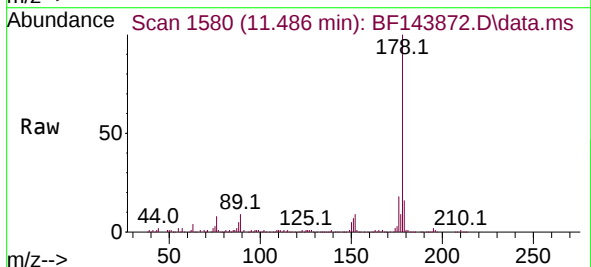
Manual Integrations
APPROVED

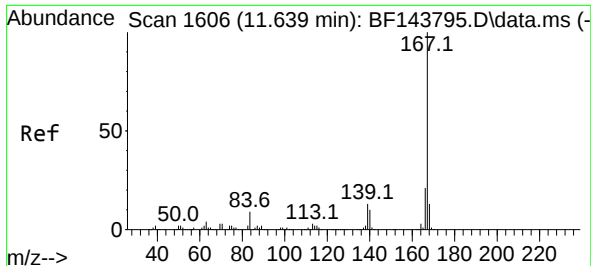
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#72
Anthracene
Concen: 7.470 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

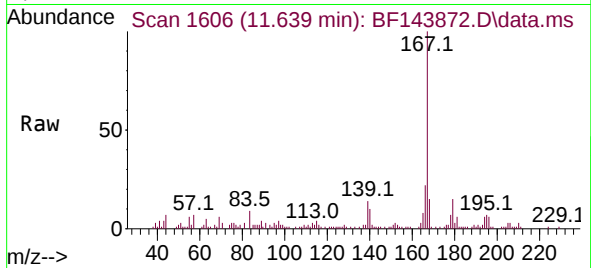
Tgt Ion:178 Resp: 116438
Ion Ratio Lower Upper
178 100
176 18.3 15.3 22.9
179 16.1 12.8 19.2





#73
 Carbazole
 Concen: 2.652 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.006 min
 Lab File: BF143872.D
 Acq: 02 Oct 2025 23:30

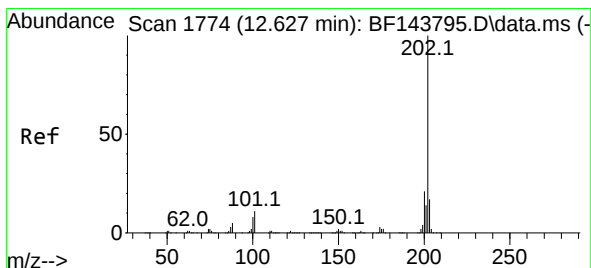
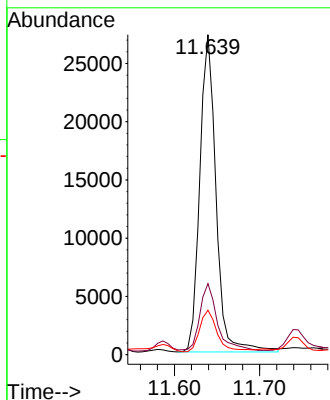
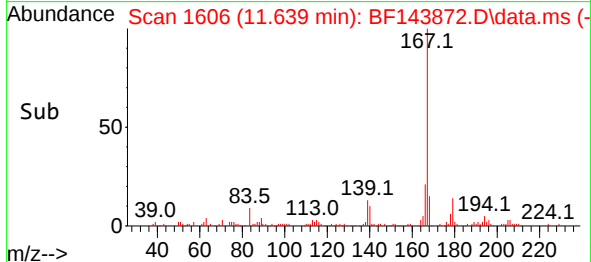
Instrument :
 BNA_F
 ClientSampleId :
 S-3(0-0.5)R



Tgt Ion:167 Resp: 36140
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.0 25.4
 139 13.9 10.6 15.8

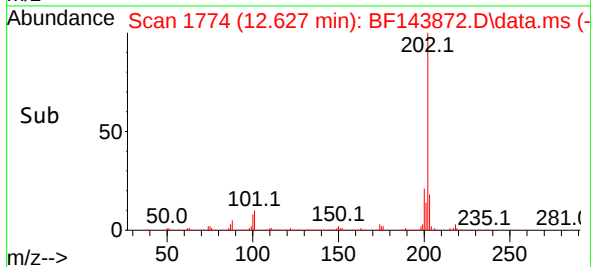
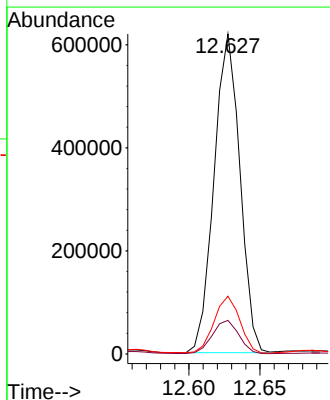
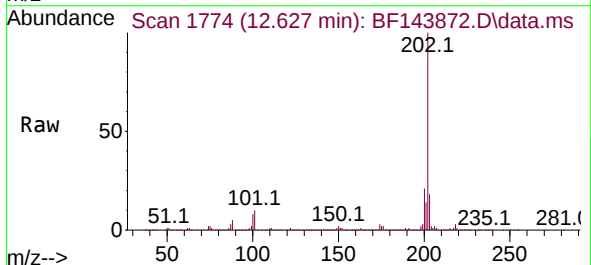
Manual Integrations
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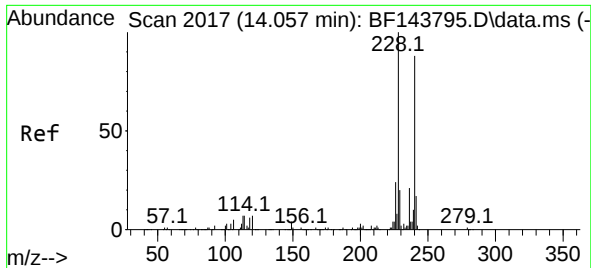
Reviewed By :Rahul Chavli 10/03/2025
 Supervised By :Jagrut Upadhyay 10/03/2025



#75
 Fluoranthene
 Concen: 50.118 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. 0.000 min
 Lab File: BF143872.D
 Acq: 02 Oct 2025 23:30

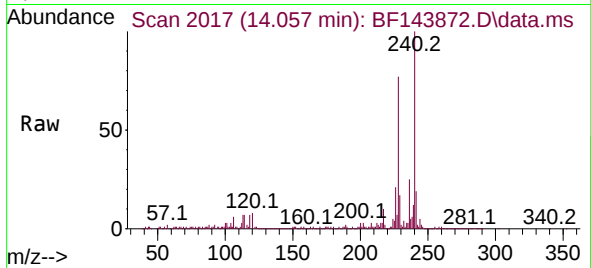
Tgt Ion:202 Resp: 783300
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 31.1
 203 18.0 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

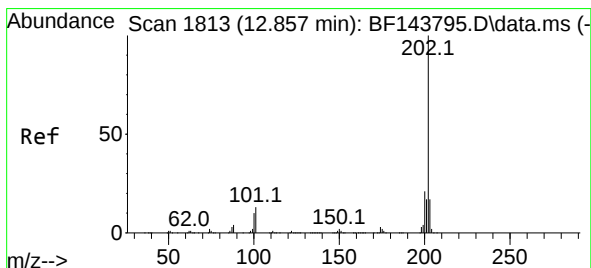
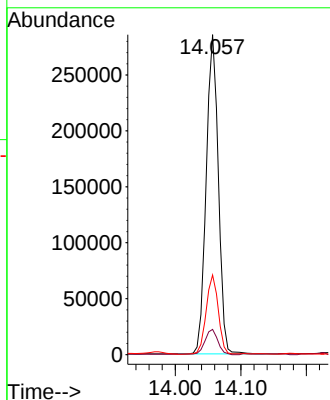
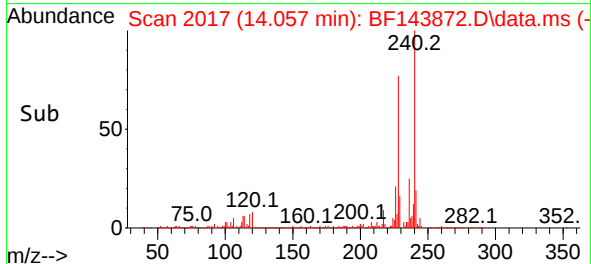
Instrument :
BNA_F
ClientSampleId :
S-3(0-0.5)R



Tgt Ion:240 Resp: 365465
Ion Ratio Lower Upper
240 100
120 7.9 6.2 9.4
236 24.9 19.4 29.2

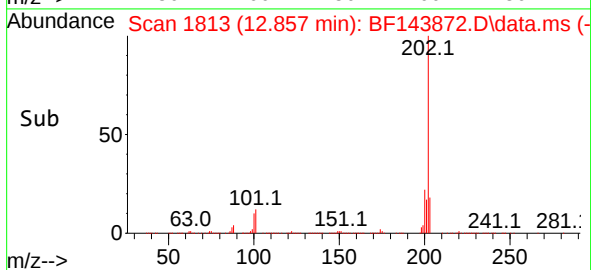
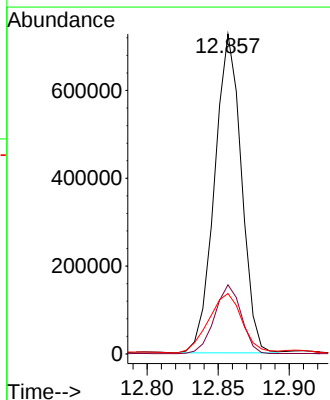
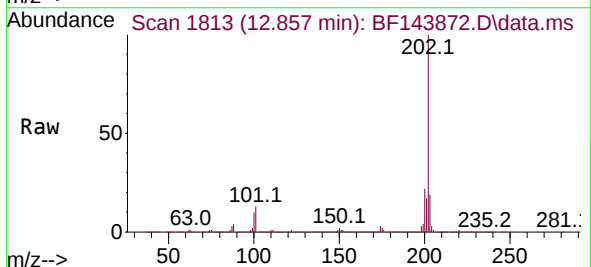
Manual Integrations
APPROVED

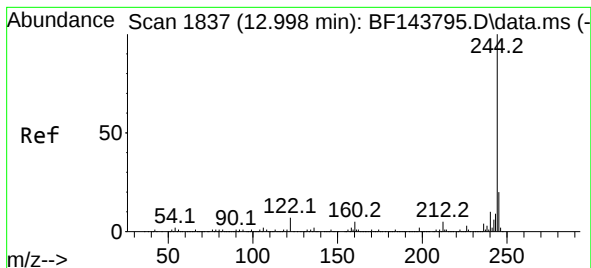
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#78
Pyrene
Concen: 53.223 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

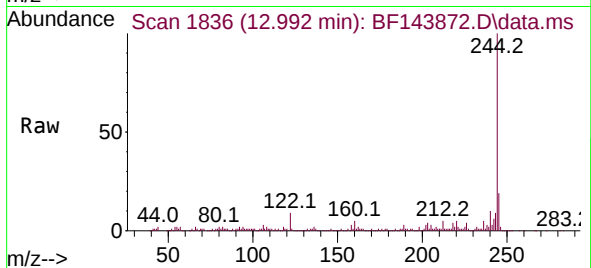
Tgt Ion:202 Resp: 956305
Ion Ratio Lower Upper
202 100
200 21.6 17.0 25.4
203 18.9 13.9 20.9





#79
 Terphenyl-d14
 Concen: 10.273 ng
 RT: 12.992 min Scan# 1837
 Delta R.T. -0.012 min
 Lab File: BF143872.D
 Acq: 02 Oct 2025 23:30

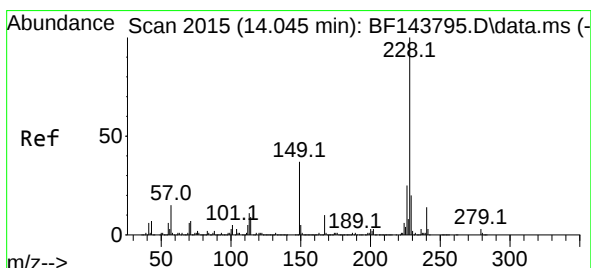
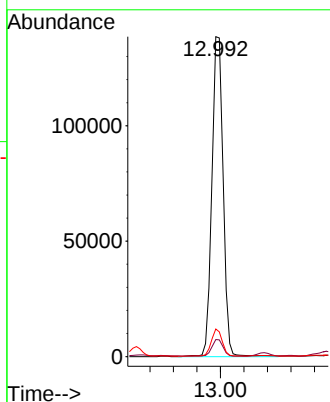
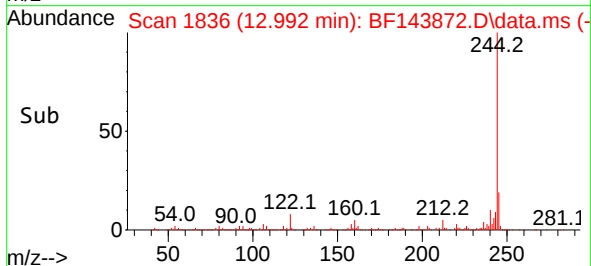
Instrument :
 BNA_F
 ClientSampleId :
 S-3(0-0.5)R



Tgt Ion:244 Resp: 184608
 Ion Ratio Lower Upper
 244 100
 212 5.3 3.9 5.9
 122 8.6 5.6 8.4

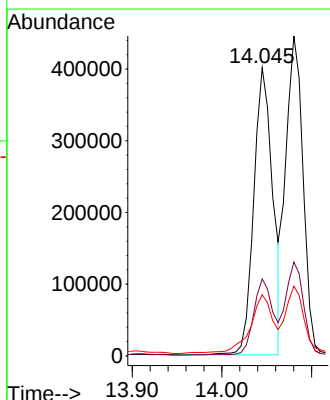
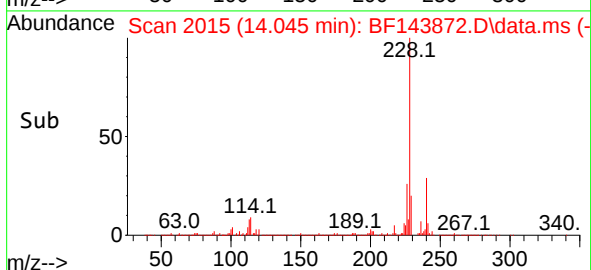
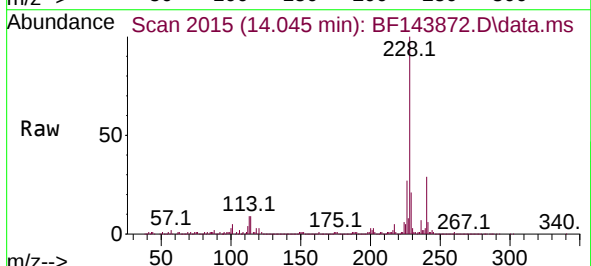
Manual Integrations
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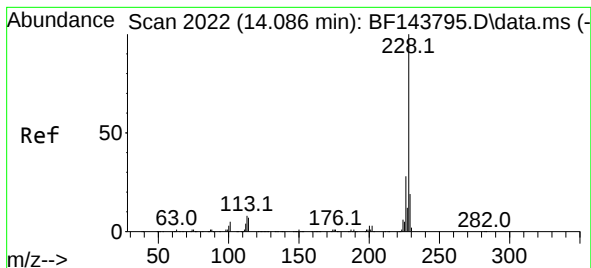
Reviewed By :Rahul Chavli 10/03/2025
 Supervised By :Jagrut Upadhyay 10/03/2025



#81
 Benzo(a)anthracene
 Concen: 30.022 ng
 RT: 14.045 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: BF143872.D
 Acq: 02 Oct 2025 23:30

Tgt Ion:228 Resp: 589429
 Ion Ratio Lower Upper
 228 100
 226 26.8 20.2 30.2
 229 21.3 16.1 24.1





#83

Chrysene

Concen: 33.379 ng

RT: 14.080 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143872.D

Acq: 02 Oct 2025 23:30

Instrument :

BNA_F

ClientSampleId :

S-3(0-0.5)R

Tgt Ion:228 Resp: 592992

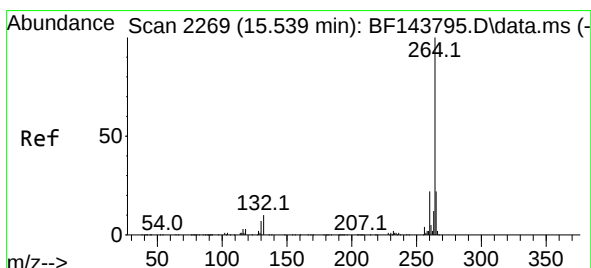
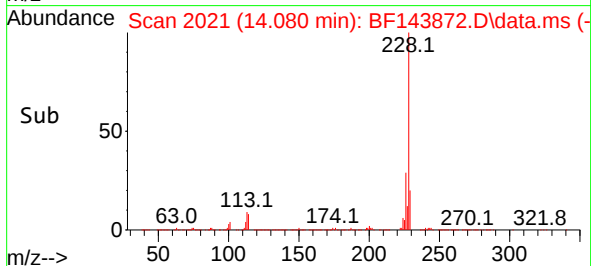
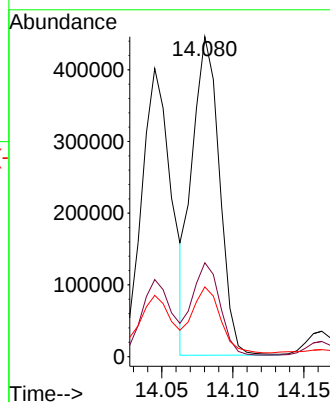
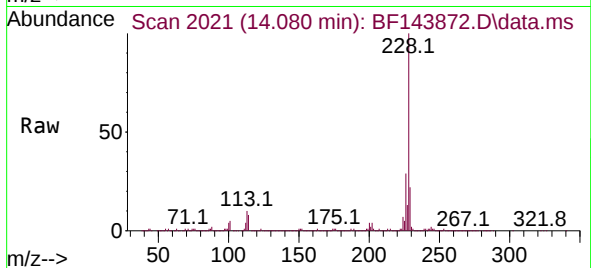
Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	33.8
229	21.8	15.6	23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

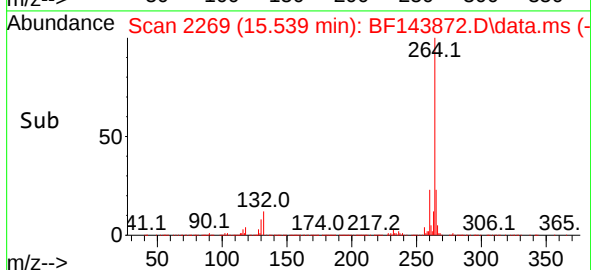
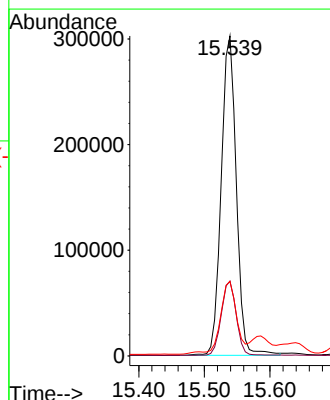
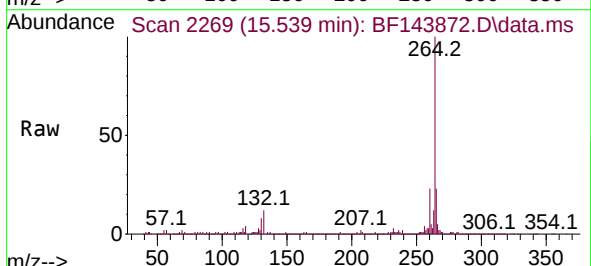
Delta R.T. 0.000 min

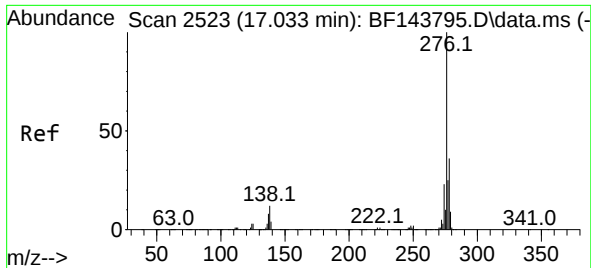
Lab File: BF143872.D

Acq: 02 Oct 2025 23:30

Tgt Ion:264 Resp: 486634

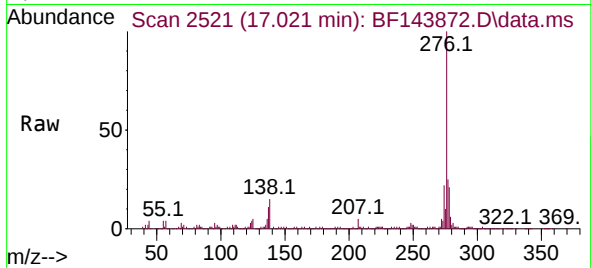
Ion	Ratio	Lower	Upper
264	100		
260	23.4	17.9	26.9
265	23.3	17.7	26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.441 ng
RT: 17.021 min Scan# 2195
Delta R.T. -0.023 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

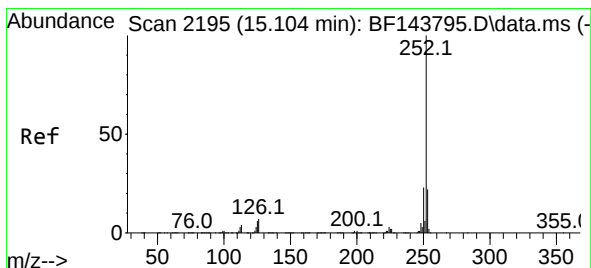
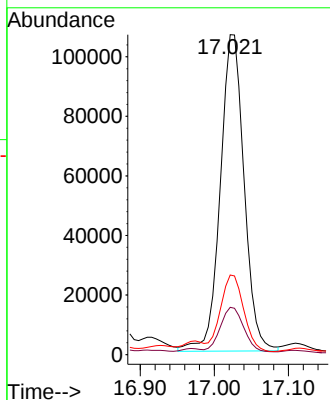
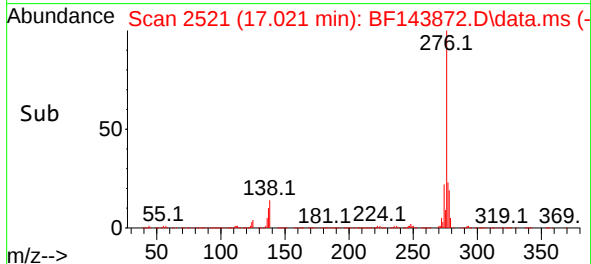
Instrument :
BNA_F
ClientSampleId :
S-3(0-0.5)R



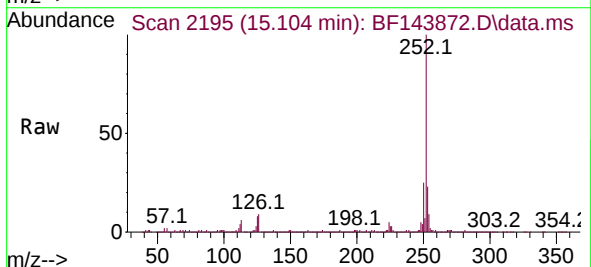
Tgt Ion:276 Resp: 237815
Ion Ratio Lower Upper
276 100
138 14.4 10.6 15.8
277 23.7 20.7 31.1

Manual Integrations
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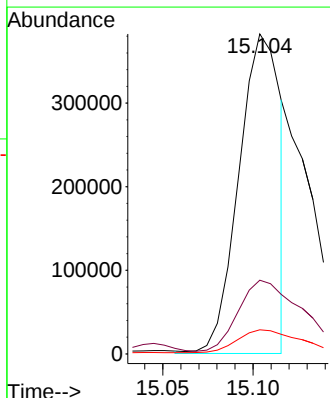
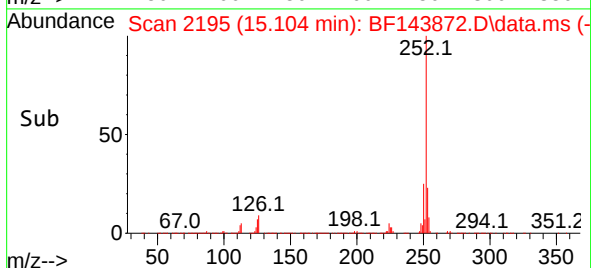
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

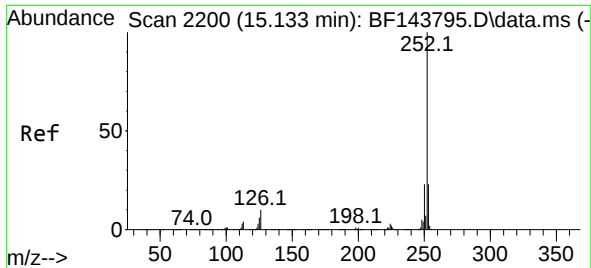


#88
Benzo(b)fluoranthene
Concen: 24.799 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30



Tgt Ion:252 Resp: 614563
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 7.6 4.4 6.6#





#89

Benzo(k)fluoranthene

Concen: 12.125 ng m

RT: 15.116 min Scan# 2197

Delta R.T. -0.023 min

Lab File: BF143872.D

Acq: 02 Oct 2025 23:30

Instrument :

BNA_F

ClientSampleId :

S-3(0-0.5)R

Tgt Ion:252 Resp: 301889

Ion Ratio Lower Upper

252 100

253 23.4 17.9 26.9

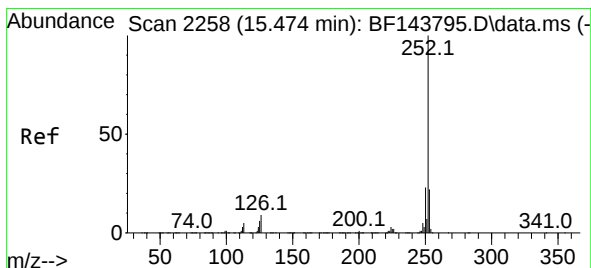
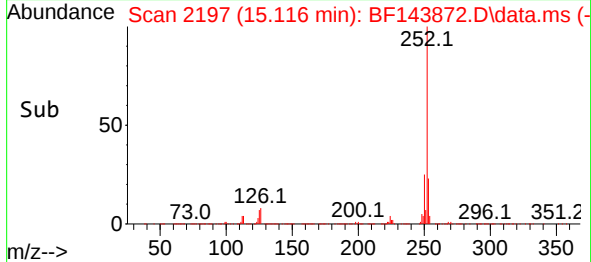
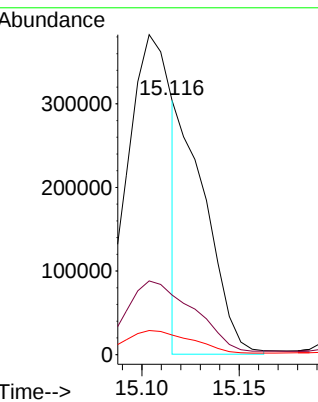
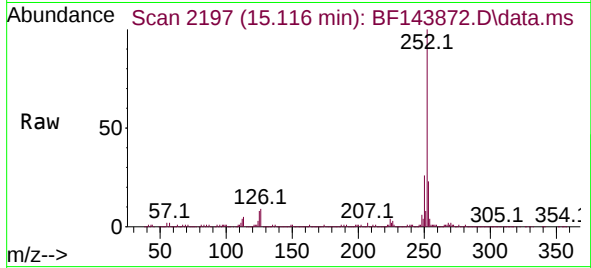
125 7.7 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#90

Benzo(a)pyrene

Concen: 23.750 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143872.D

Acq: 02 Oct 2025 23:30

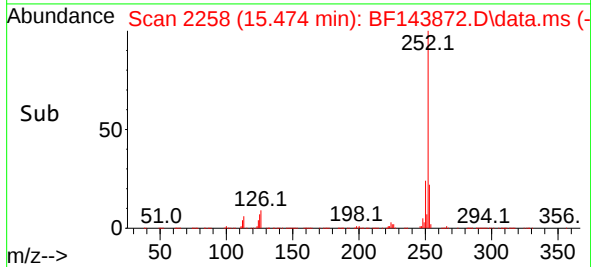
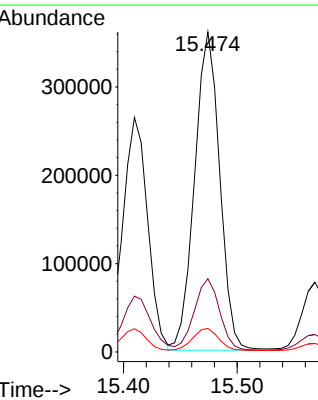
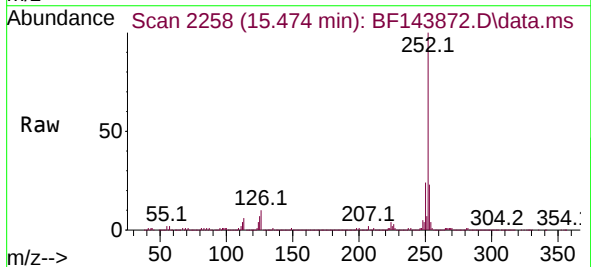
Tgt Ion:252 Resp: 553246

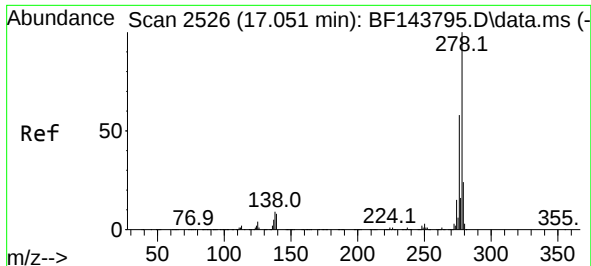
Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

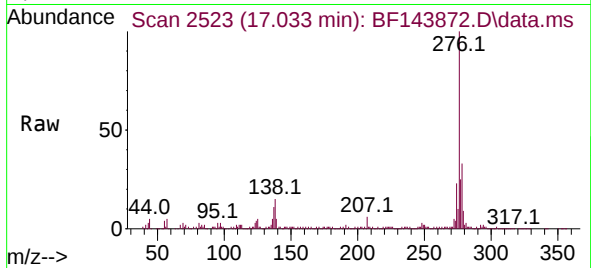
125 7.3 5.0 7.4





#91
Dibenzo(a,h)anthracene
Concen: 2.473 ng
RT: 17.033 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

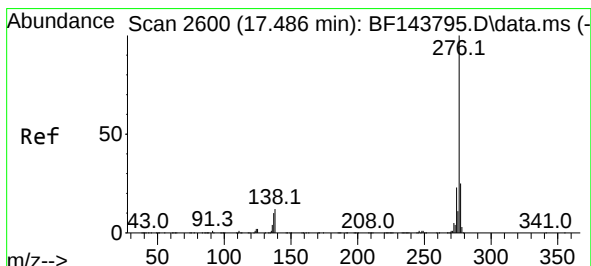
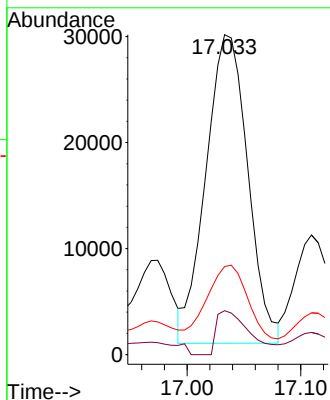
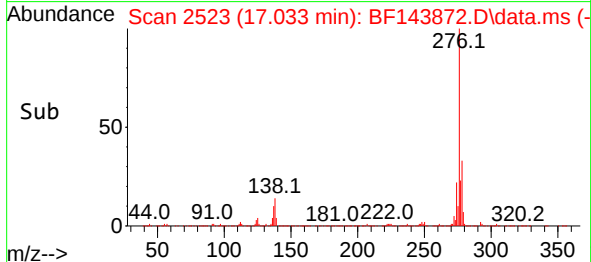
Instrument :
BNA_F
ClientSampleId :
S-3(0-0.5)R



Tgt Ion:278 Resp: 74685
Ion Ratio Lower Upper
278 100
139 13.7 6.7 10.1
279 27.5 19.3 28.9

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#92
Benzo(g,h,i)perylene
Concen: 7.542 ng
RT: 17.474 min Scan# 2598
Delta R.T. -0.029 min
Lab File: BF143872.D
Acq: 02 Oct 2025 23:30

Tgt Ion:276 Resp: 219566
Ion Ratio Lower Upper
276 100
277 24.0 19.6 29.4
138 15.6 9.2 13.8

