

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100225\
 Data File : BF143873.D
 Acq On : 02 Oct 2025 23:59
 Operator : RC/JU
 Sample : Q3249-12 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-12(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 01:31:47 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	91464	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	332413	20.000	ng	# 0.00
39) Acenaphthene-d10	9.922	164	170680	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	305129	20.000	ng	0.00
76) Chrysene-d12	14.057	240	373313	20.000	ng	0.00
86) Perylene-d12	15.539	264	483403	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	77287	13.729	ng	0.00
7) Phenol-d6	6.498	99	90501	13.913	ng	-0.01
23) Nitrobenzene-d5	7.440	82	52039	9.583	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	20553	8.133	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	112746	10.308	ng	0.00
79) Terphenyl-d14	12.992	244	154856	8.436	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.951	154	36504	4.052	ng	97
58) Fluorene	10.469	166	40698	4.297	ng	98
71) Phenanthrene	11.433	178	751034	47.943	ng	100
72) Anthracene	11.486	178	144072	9.169	ng	98
73) Carbazole	11.639	167	40761	2.967	ng	98
75) Fluoranthene	12.627	202	798686	50.692	ng	99
78) Pyrene	12.857	202	951143	51.823	ng	98
81) Benzo(a)anthracene	14.045	228	612638	30.548	ng	97
83) Chrysene	14.080	228	586406	32.314	ng	98
87) Indeno(1,2,3-cd)pyrene	17.027	276	239018	6.517	ng	96
88) Benzo(b)fluoranthene	15.104	252	631256m	25.643	ng	
89) Benzo(k)fluoranthene	15.116	252	292856m	11.841	ng	
90) Benzo(a)pyrene	15.474	252	569337	24.604	ng	98
91) Dibenzo(a,h)anthracene	17.039	278	73932	2.464	ng	# 94
92) Benzo(g,h,i)perylene	17.474	276	227804	7.878	ng	# 96

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

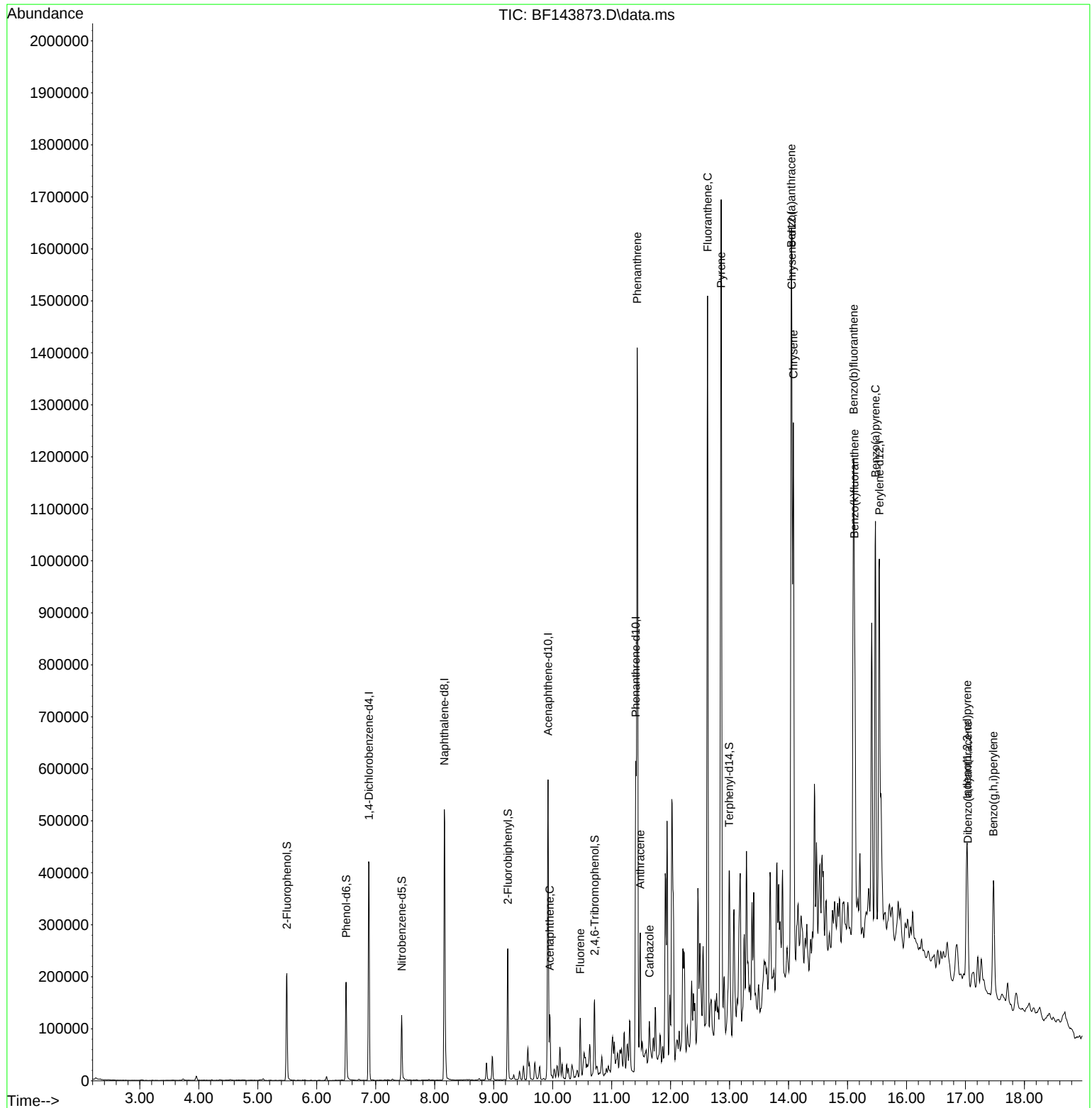
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100225\
Data File : BF143873.D
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Operator : RC/JU
Sample : Q3249-12 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

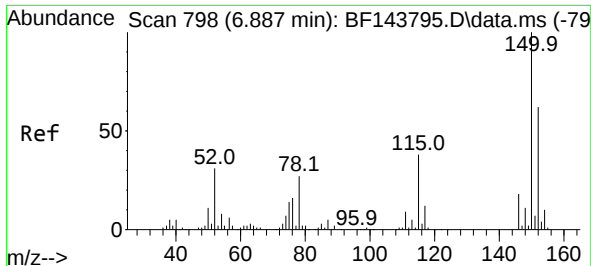
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
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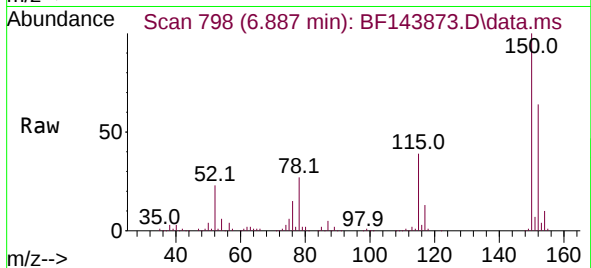
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

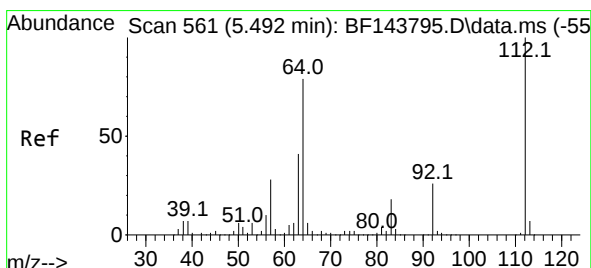
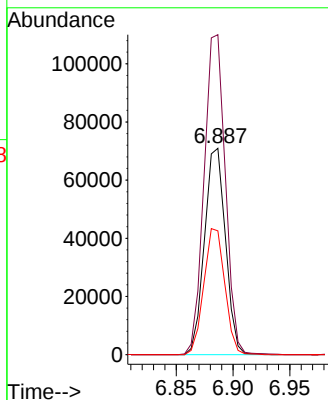
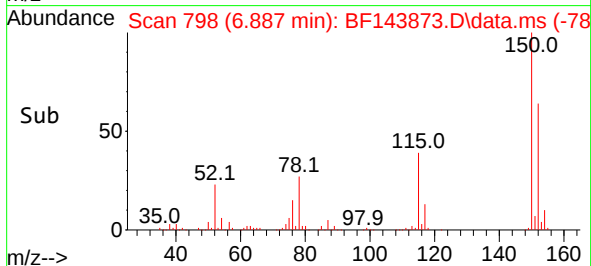
Instrument :
BNA_F
ClientSampleId :
S-12(0-0.5)R



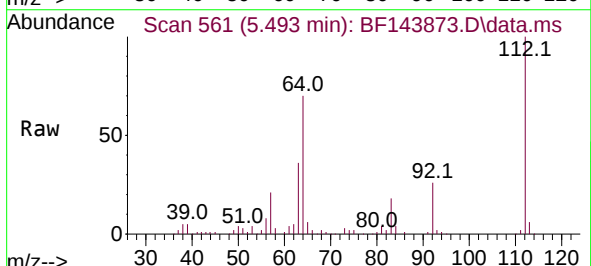
Tgt Ion:152 Resp: 91464
Ion Ratio Lower Upper
152 100
150 155.0 129.6 194.4
115 60.0 49.0 73.4

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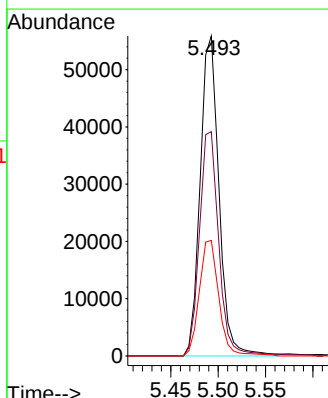
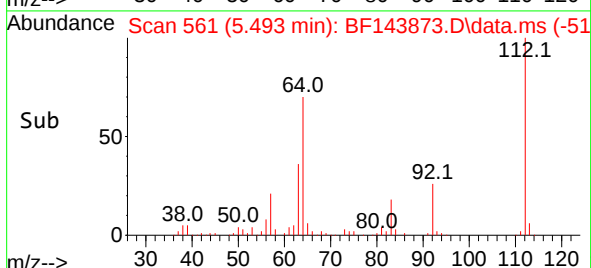
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#5
2-Fluorophenol
Concen: 13.729 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.005 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59



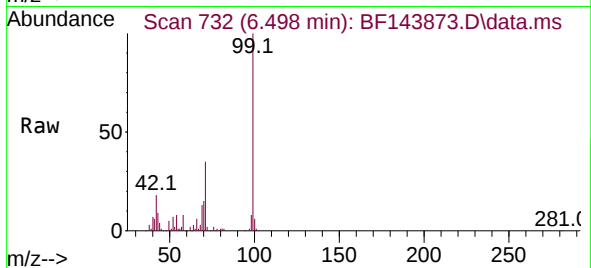
Tgt Ion:112 Resp: 77287
Ion Ratio Lower Upper
112 100
64 70.1 63.0 94.4
63 36.1 32.6 49.0





#7
Phenol-d6
Concen: 13.913 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

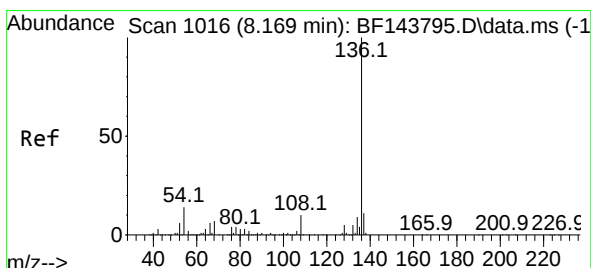
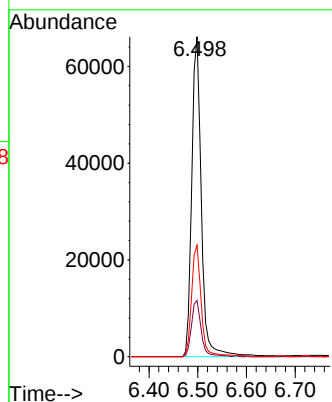
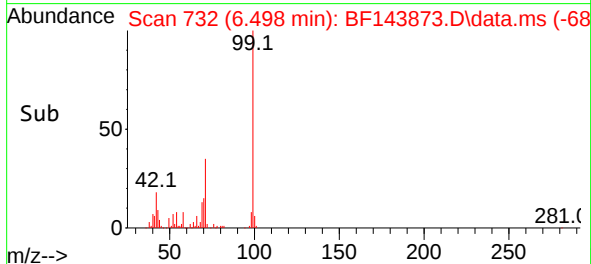
Instrument :
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ClientSampleId :
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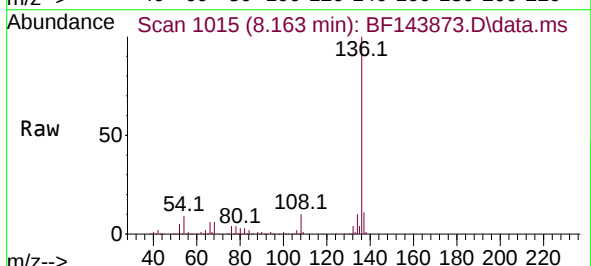
Tgt Ion: 99 Resp: 90501
Ion Ratio Lower Upper
99 100
42 17.5 18.6 28.0
71 34.8 27.0 40.4

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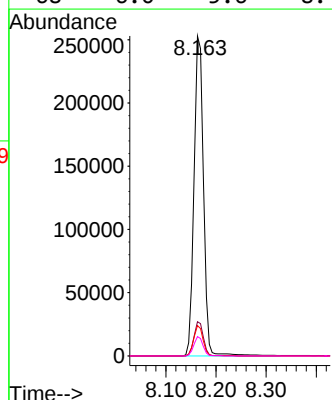
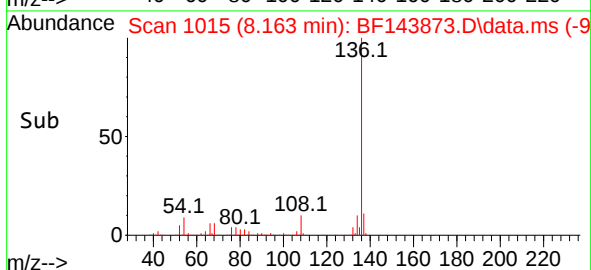
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

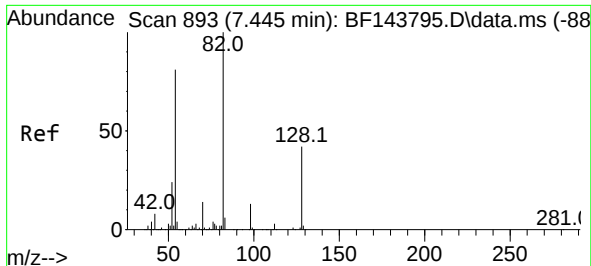


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59



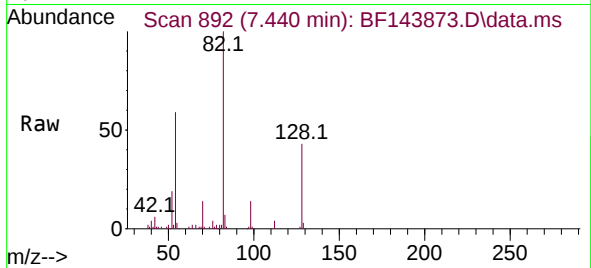
Tgt Ion:136 Resp: 332413
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.4
54 9.5 11.2 16.8
68 6.0 5.6 8.4





#23
Nitrobenzene-d5
Concen: 9.583 ng
RT: 7.440 min Scan# 893
Delta R.T. -0.011 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

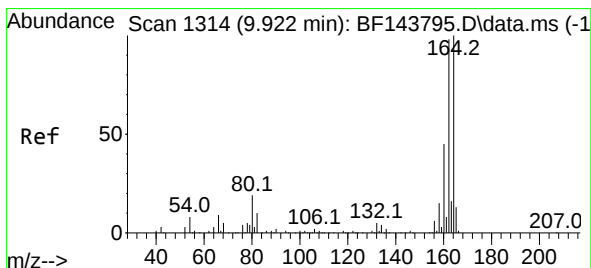
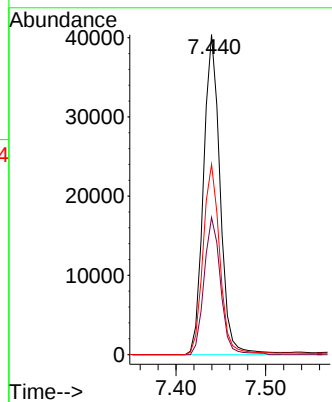
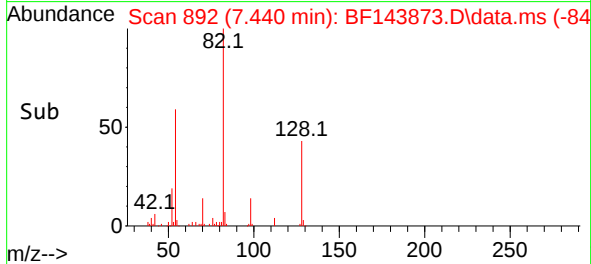
Instrument :
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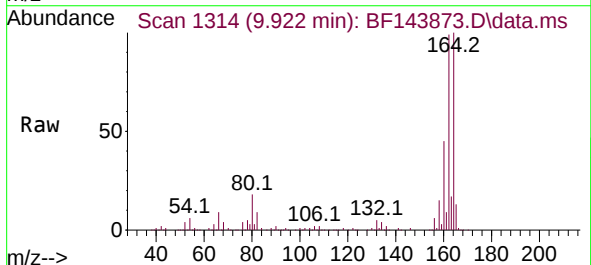
Tgt Ion: 82 Resp: 52039
Ion Ratio Lower Upper
82 100
128 42.9 33.3 49.9
54 59.4 64.2 96.4

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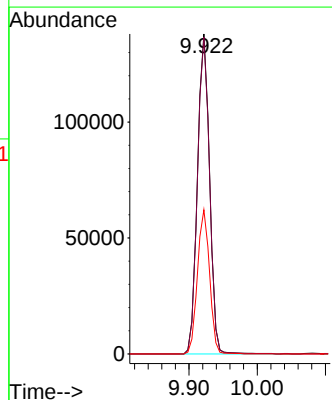
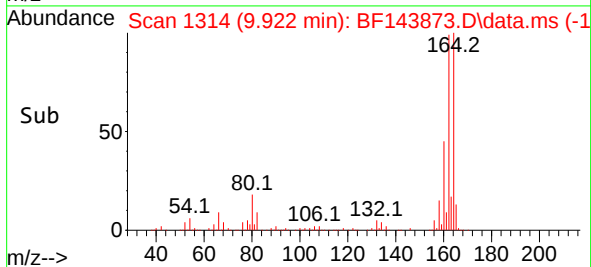
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

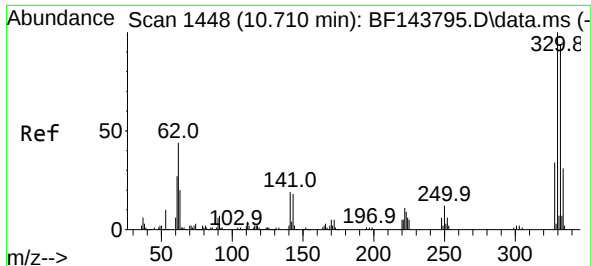


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59



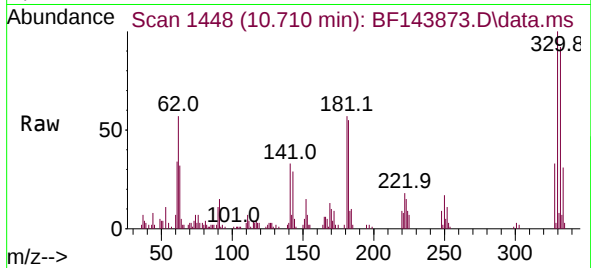
Tgt Ion:164 Resp: 170680
Ion Ratio Lower Upper
164 100
162 99.0 78.8 118.2
160 45.0 35.8 53.6





#42
 2,4,6-Tribromophenol
 Concen: 8.133 ng
 RT: 10.710 min Scan# 1448
 Delta R.T. -0.006 min
 Lab File: BF143873.D
 Acq: 02 Oct 2025 23:59

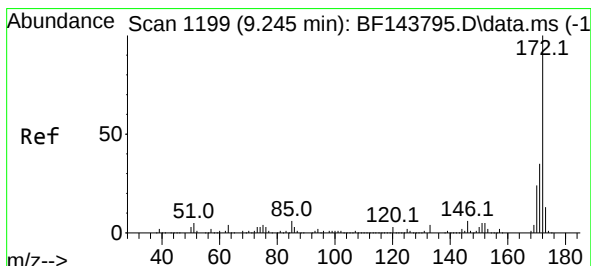
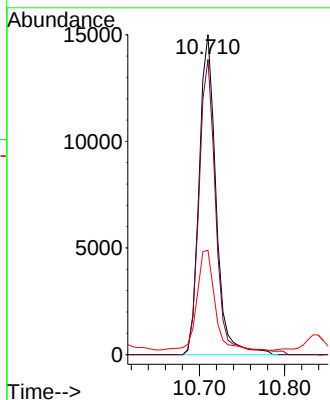
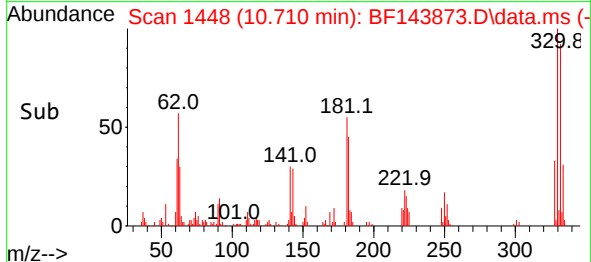
Instrument :
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 S-12(0-0.5)R



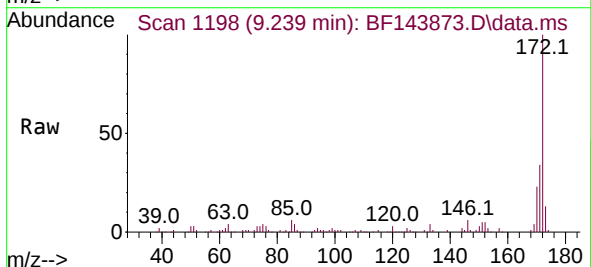
Tgt Ion: 330 Resp: 2055
 Ion Ratio Lower Upper
 330 100
 332 92.7 74.7 112.1
 141 36.2 14.3 21.5

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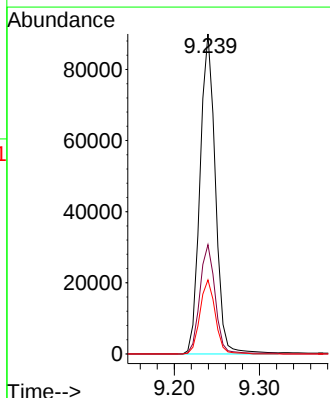
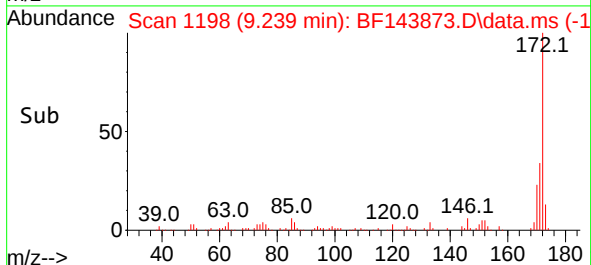
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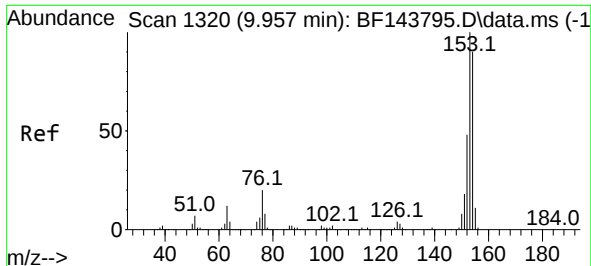


#45
 2-Fluorobiphenyl
 Concen: 10.308 ng
 RT: 9.239 min Scan# 1198
 Delta R.T. -0.006 min
 Lab File: BF143873.D
 Acq: 02 Oct 2025 23:59



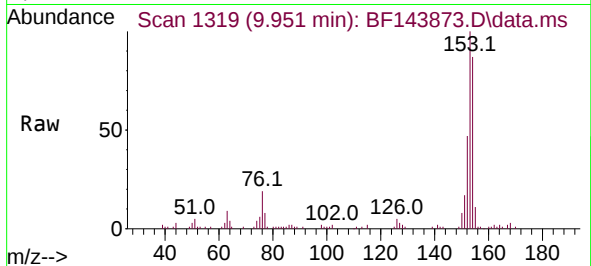
Tgt Ion: 172 Resp: 112746
 Ion Ratio Lower Upper
 172 100
 171 34.1 27.9 41.9
 170 23.1 19.1 28.7





#52
Acenaphthene
Concen: 4.052 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

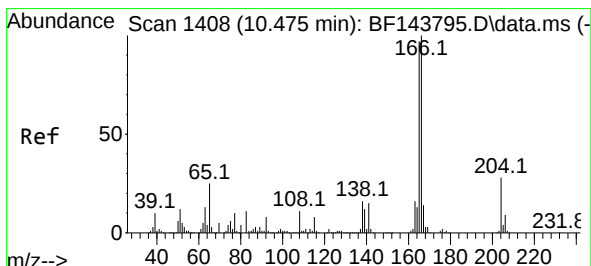
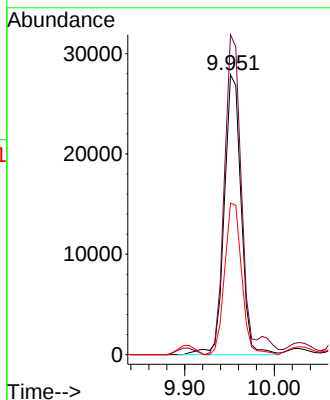
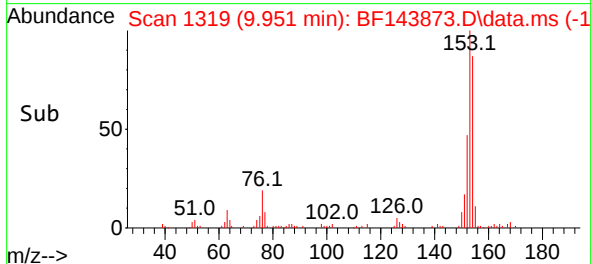
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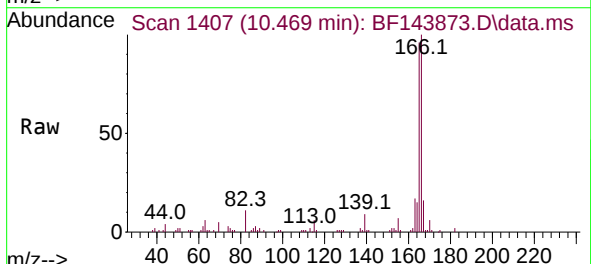
Tgt Ion:154 Resp: 36504
Ion Ratio Lower Upper
154 100
153 114.3 88.7 133.1
152 54.1 42.7 64.1

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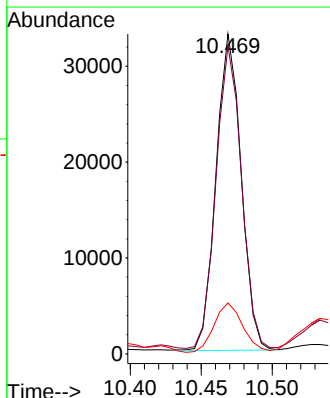
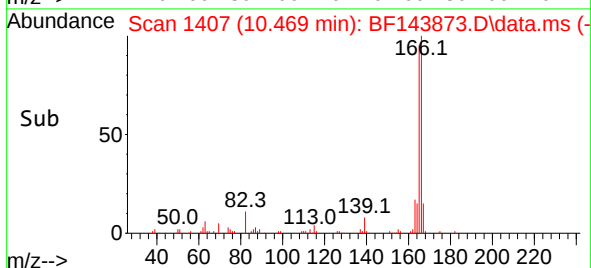
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

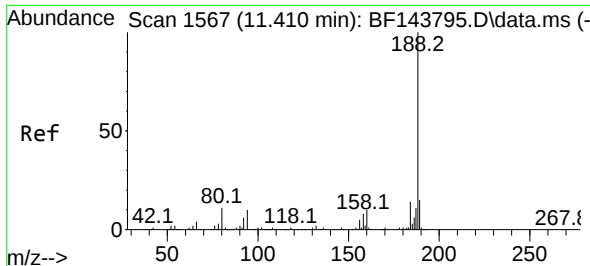


#58
Fluorene
Concen: 4.297 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59



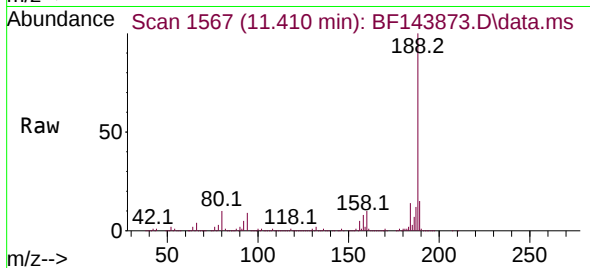
Tgt Ion:166 Resp: 40698
Ion Ratio Lower Upper
166 100
165 96.2 78.0 117.0
167 15.9 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

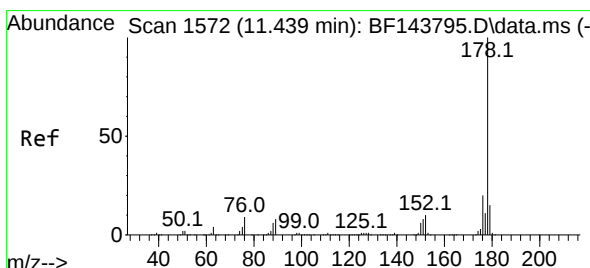
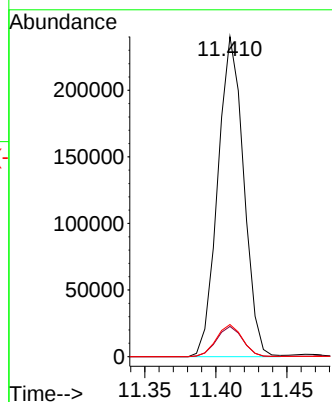
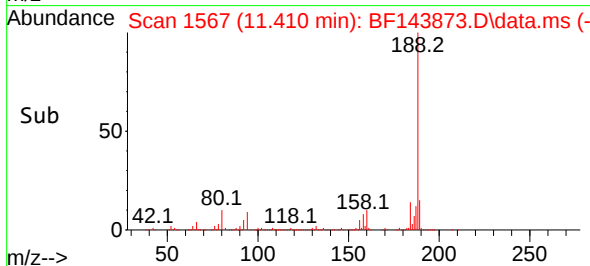
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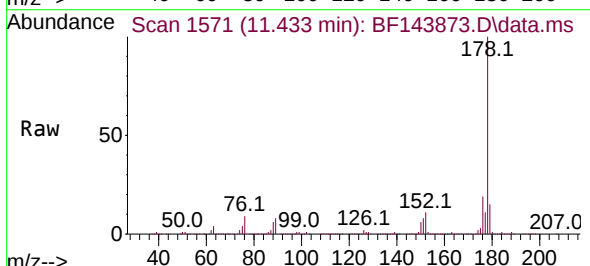
Tgt Ion:188 Resp: 305129
Ion Ratio Lower Upper
188 100
94 9.5 8.2 12.2
80 10.0 8.6 12.8

Manual Integrations
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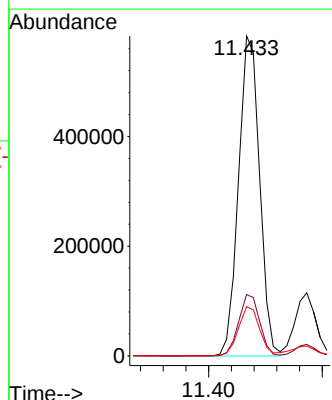
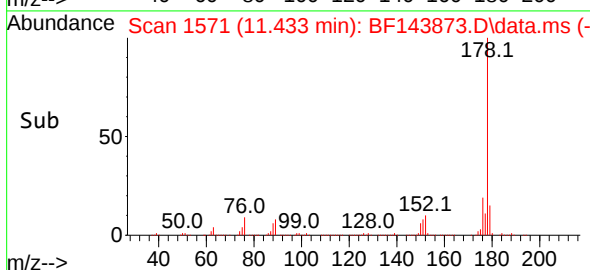
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Supervised By :Jagrut Upadhyay 10/03/2025

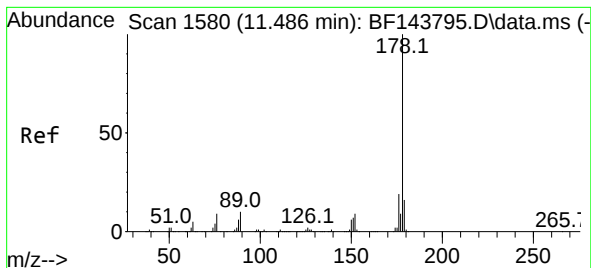


#71
Phenanthrene
Concen: 47.943 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59



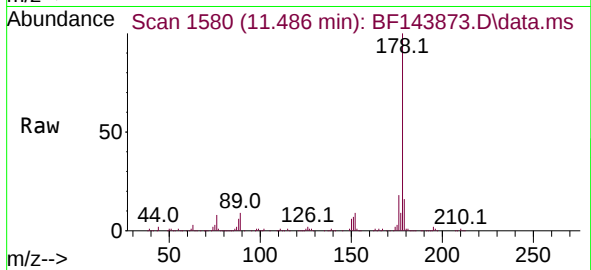
Tgt Ion:178 Resp: 751034
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.4 12.2 18.4





#72
 Anthracene
 Concen: 9.169 ng
 RT: 11.486 min Scan# 11486
 Delta R.T. -0.006 min
 Lab File: BF143873.D
 Acq: 02 Oct 2025 23:59

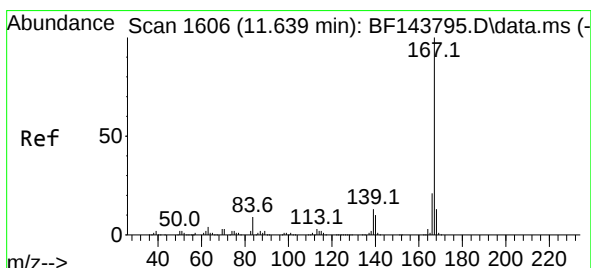
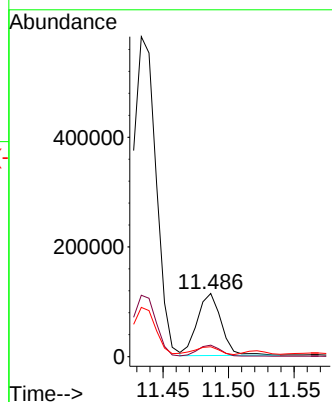
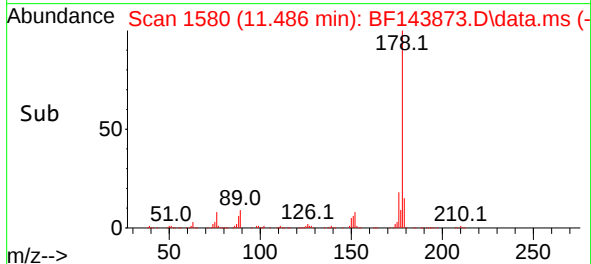
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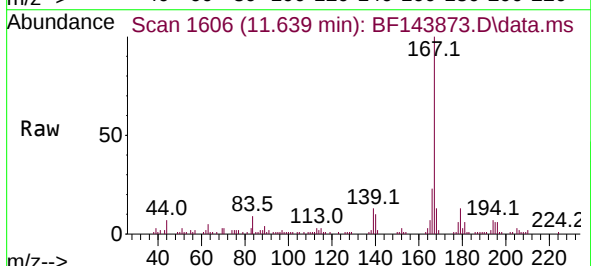
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 Ion Ratio Lower Upper
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 176 18.2 15.3 22.9
 179 15.6 12.8 19.2

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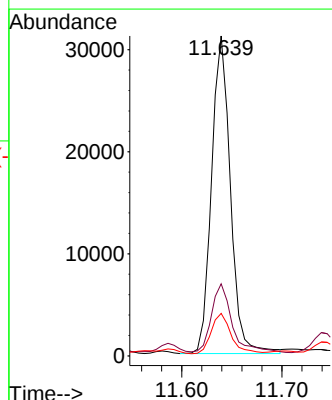
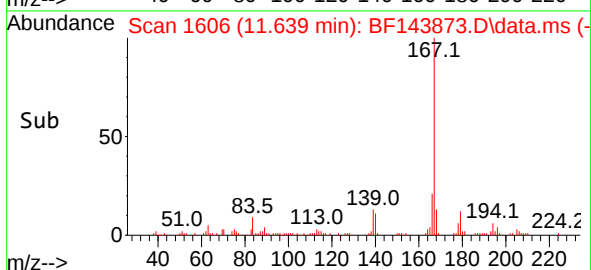
Reviewed By :Rahul Chavli 10/03/2025
 Supervised By :Jagrut Upadhyay 10/03/2025

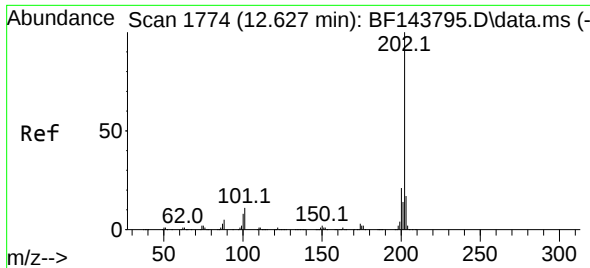


#73
 Carbazole
 Concen: 2.967 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.006 min
 Lab File: BF143873.D
 Acq: 02 Oct 2025 23:59



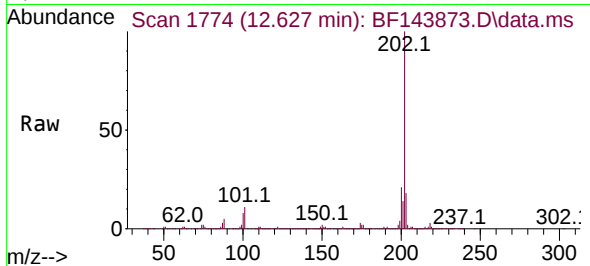
Tgt Ion:167 Resp: 40761
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.0 25.4
 139 13.3 10.6 15.8





#75
Fluoranthene
Concen: 50.692 ng
RT: 12.627 min Scan# 1774
Delta R.T. 0.000 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

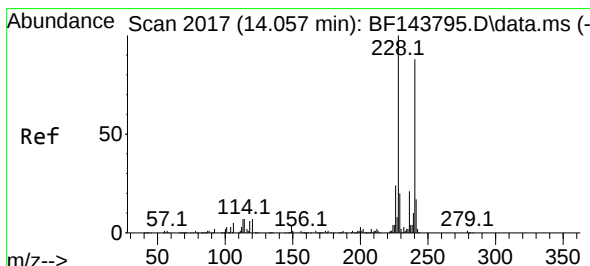
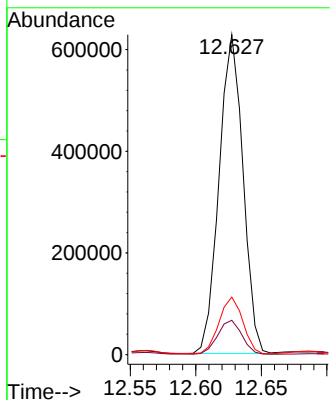
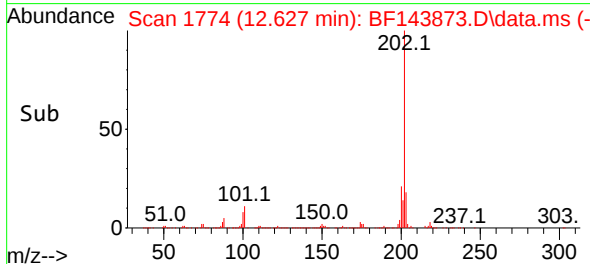
Instrument :
BNA_F
ClientSampleId :
S-12(0-0.5)R



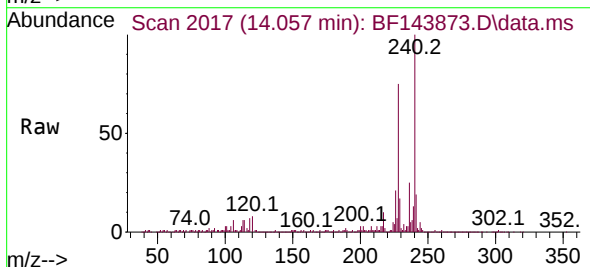
Tgt Ion:202 Resp: 798686
Ion Ratio Lower Upper
202 100
101 10.7 0.0 31.1
203 18.0 0.0 37.4

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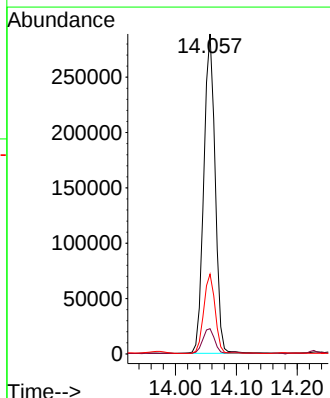
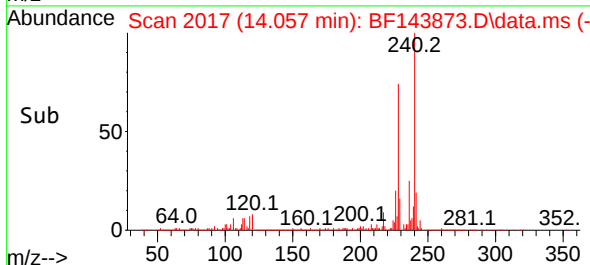
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

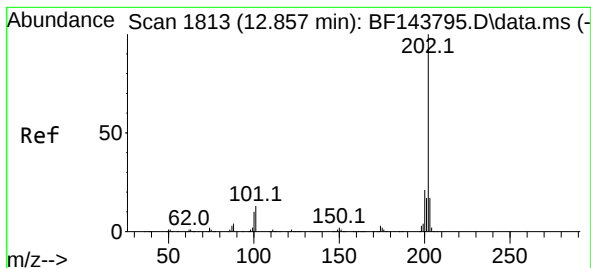


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59



Tgt Ion:240 Resp: 373313
Ion Ratio Lower Upper
240 100
120 7.9 6.2 9.4
236 24.9 19.4 29.2





#78

Pyrene

Concen: 51.823 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF143873.D

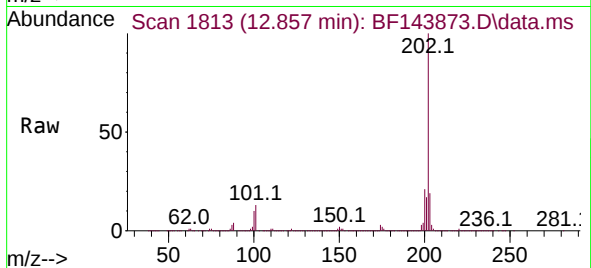
Acq: 02 Oct 2025 23:59

Instrument :

BNA_F

ClientSampleId :

S-12(0-0.5)R



Tgt Ion:202 Resp: 951143

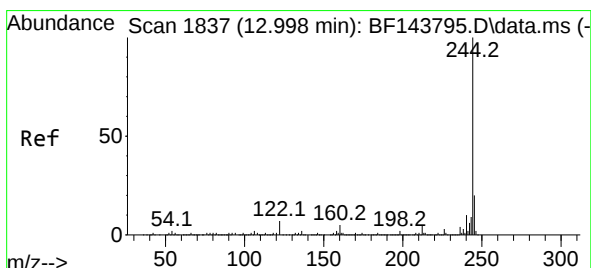
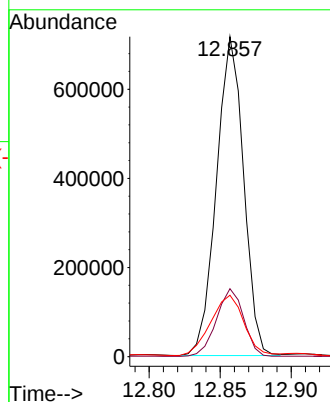
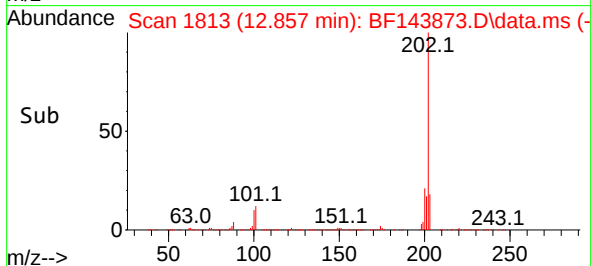
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	19.2	13.9	20.9

Manual Integrations

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Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#79

Terphenyl-d14

Concen: 8.436 ng

RT: 12.992 min Scan# 1836

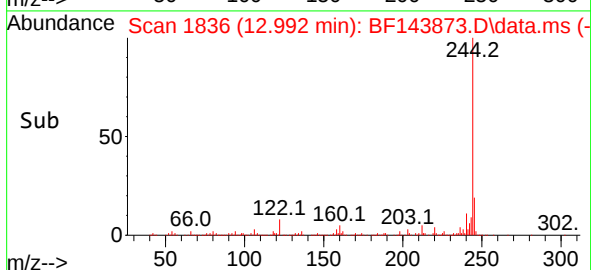
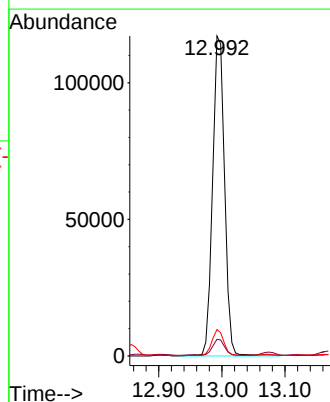
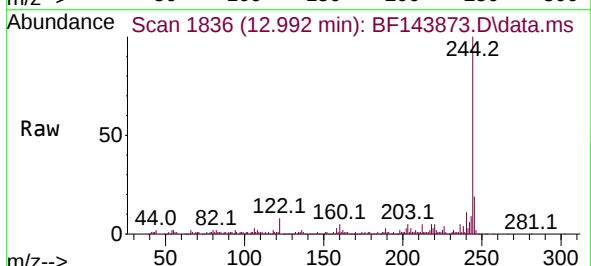
Delta R.T. -0.012 min

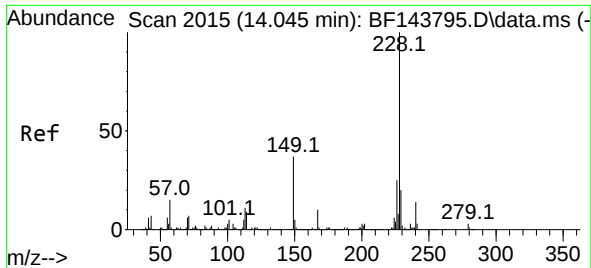
Lab File: BF143873.D

Acq: 02 Oct 2025 23:59

Tgt Ion:244 Resp: 154856

Ion	Ratio	Lower	Upper
244	100		
212	5.2	3.9	5.9
122	8.2	5.6	8.4





#81
Benzo(a)anthracene
Concen: 30.548 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

Instrument :

BNA_F

ClientSampleId :

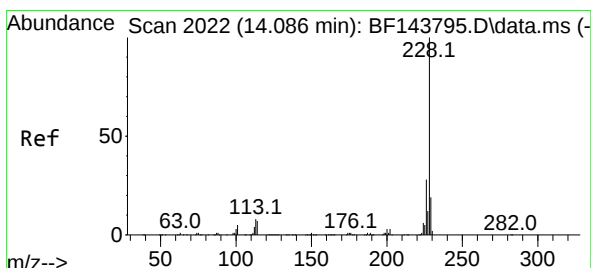
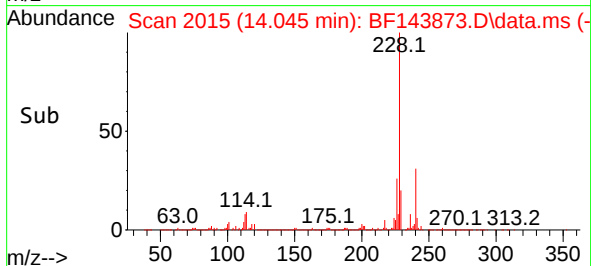
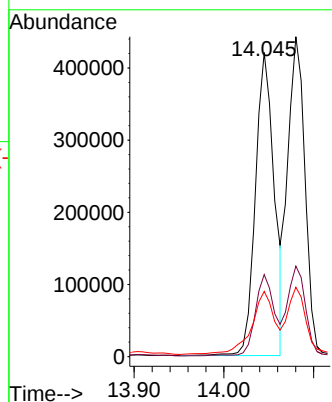
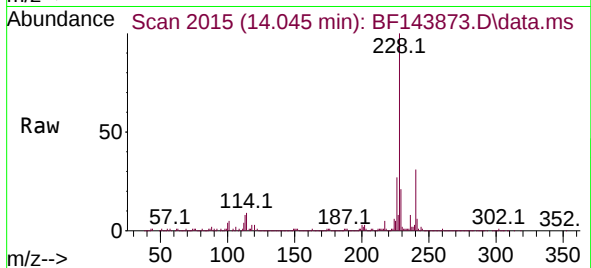
S-12(0-0.5)R

Tgt Ion:228 Resp: 612638
Ion Ratio Lower Upper
228 100
226 27.0 20.2 30.2
229 21.5 16.1 24.1

Manual Integrations

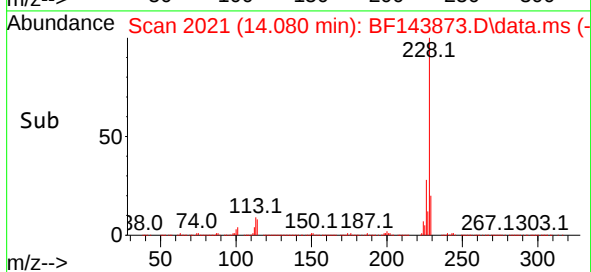
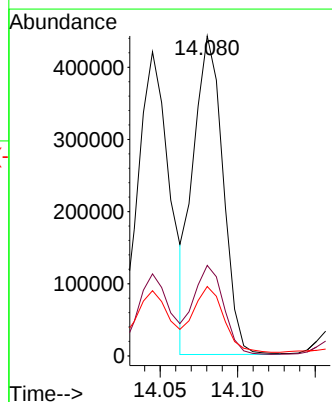
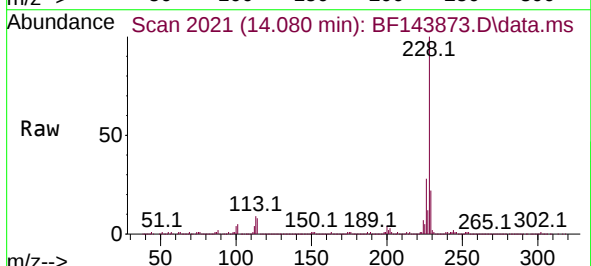
APPROVED

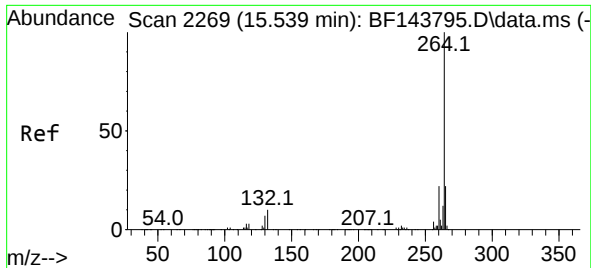
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#83
Chrysene
Concen: 32.314 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

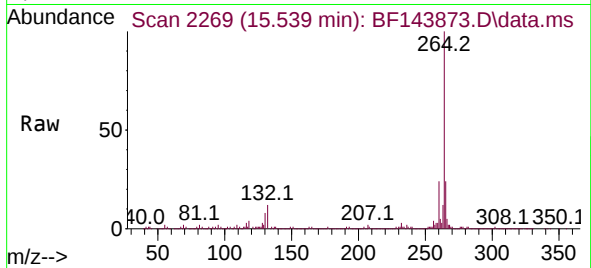
Tgt Ion:228 Resp: 586406
Ion Ratio Lower Upper
228 100
226 28.3 22.6 33.8
229 21.7 15.6 23.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

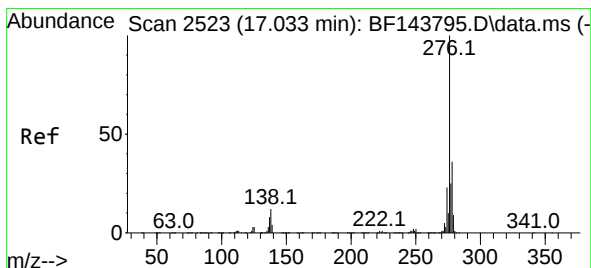
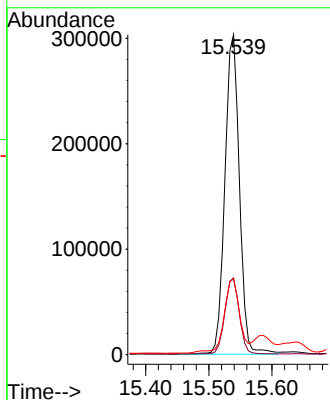
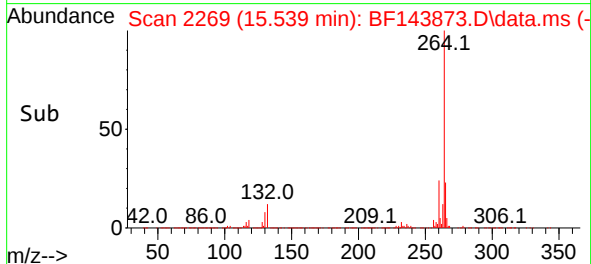
Instrument :
BNA_F
ClientSampleId :
S-12(0-0.5)R



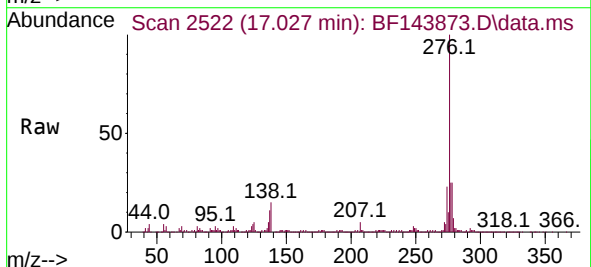
Tgt Ion:264 Resp: 483403
Ion Ratio Lower Upper
264 100
260 24.0 17.9 26.9
265 23.6 17.7 26.5

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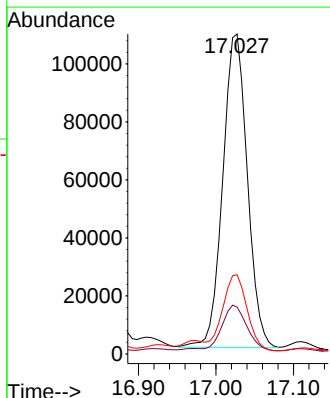
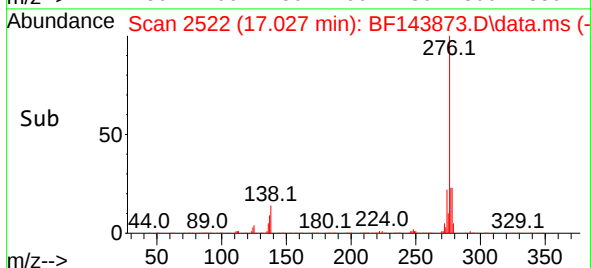
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

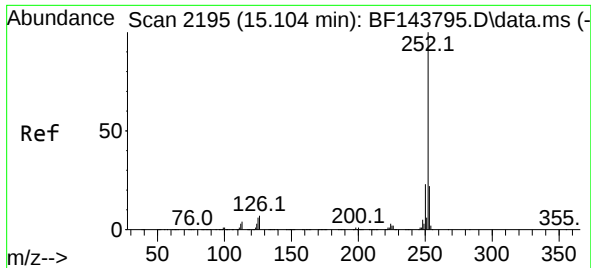


#87
Indeno(1,2,3-cd)pyrene
Concen: 6.517 ng
RT: 17.027 min Scan# 2522
Delta R.T. -0.018 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59



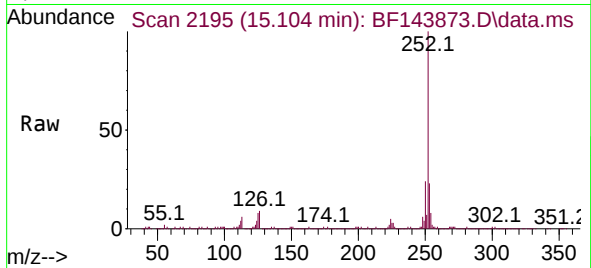
Tgt Ion:276 Resp: 239018
Ion Ratio Lower Upper
276 100
138 15.3 10.6 15.8
277 24.3 20.7 31.1





#88
Benzo(b)fluoranthene
Concen: 25.643 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

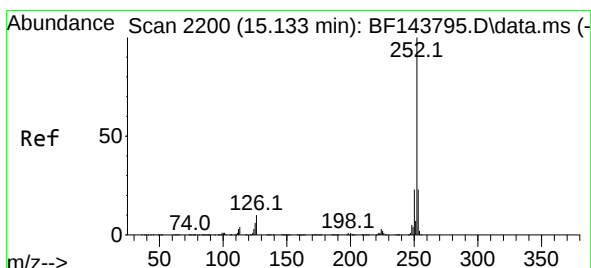
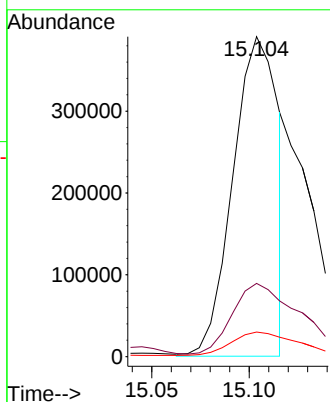
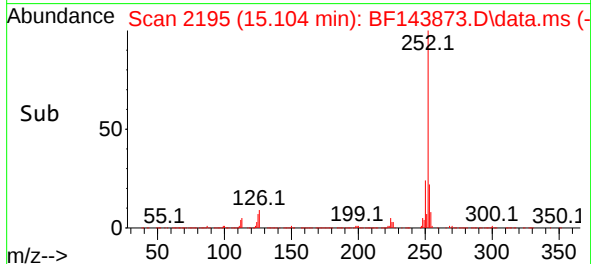
Instrument :
BNA_F
ClientSampleId :
S-12(0-0.5)R



Tgt Ion:252 Resp: 631256
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 7.7 4.4 6.6

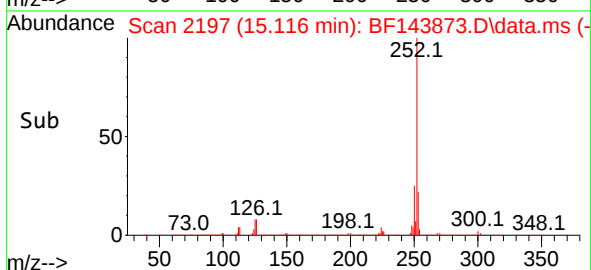
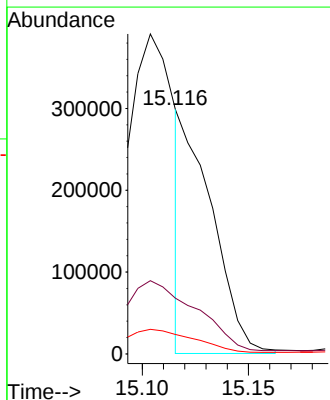
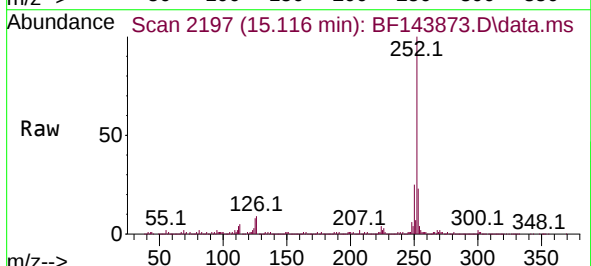
Manual Integrations
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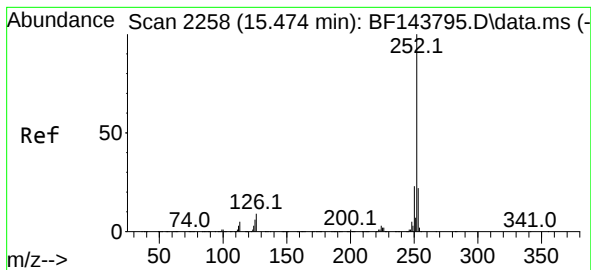
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#89
Benzo(k)fluoranthene
Concen: 11.841 ng m
RT: 15.116 min Scan# 2197
Delta R.T. -0.023 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

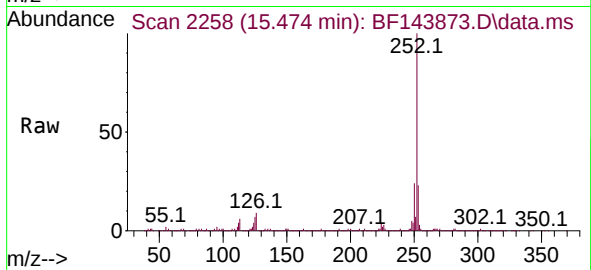
Tgt Ion:252 Resp: 292856
Ion Ratio Lower Upper
252 100
253 22.8 17.9 26.9
125 8.0 4.6 6.8





#90
Benzo(a)pyrene
Concen: 24.604 ng
RT: 15.474 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

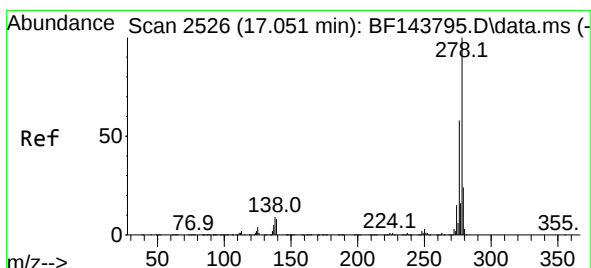
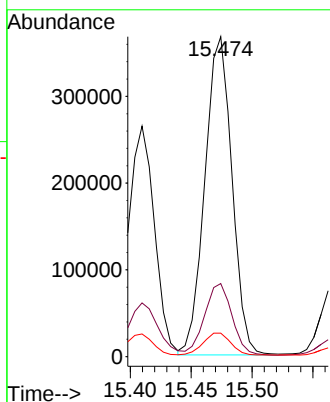
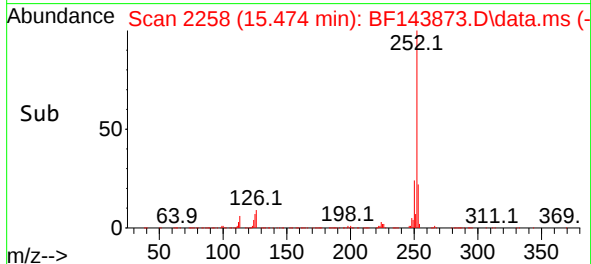
Instrument :
BNA_F
ClientSampleId :
S-12(0-0.5)R



Tgt Ion:252 Resp: 56933
Ion Ratio Lower Upper
252 100
253 22.8 17.6 26.4
125 7.3 5.0 7.4

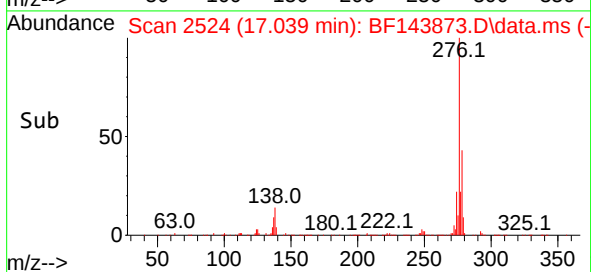
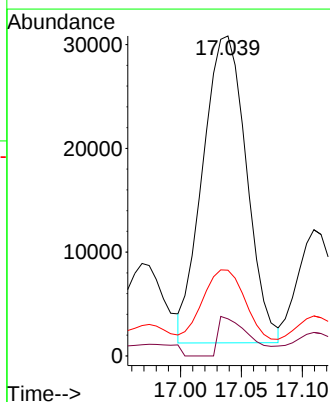
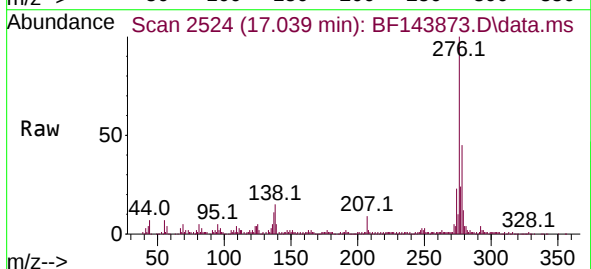
Manual Integrations
APPROVED

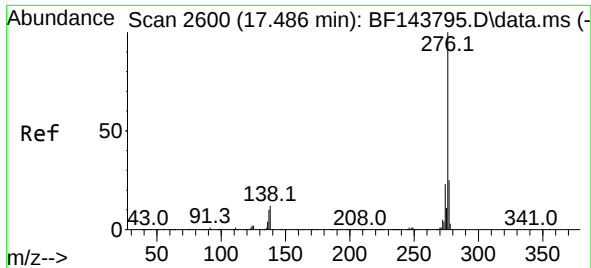
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#91
Dibenzo(a,h)anthracene
Concen: 2.464 ng
RT: 17.039 min Scan# 2524
Delta R.T. -0.029 min
Lab File: BF143873.D
Acq: 02 Oct 2025 23:59

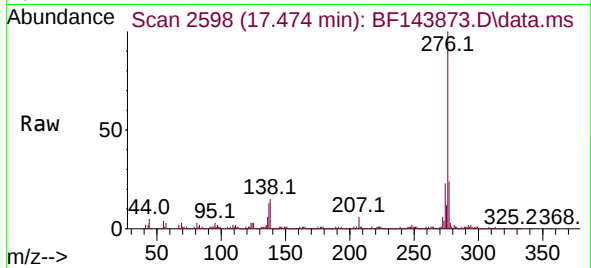
Tgt Ion:278 Resp: 73932
Ion Ratio Lower Upper
278 100
139 11.6 6.7 10.1#
279 26.8 19.3 28.9





#92
 Benzo(g,h,i)perylene
 Concen: 7.878 ng
 RT: 17.474 min Scan# 2598
 Delta R.T. -0.029 min
 Lab File: BF143873.D
 Acq: 02 Oct 2025 23:59

Instrument :
 BNA_F
 ClientSampleId :
 S-12(0-0.5)R



Tgt Ion:276 Resp: 227804
 Ion Ratio Lower Upper
 276 100
 277 23.9 19.6 29.4
 138 15.5 9.2 13.8

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

