

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100825\
 Data File : BF143902.D
 Acq On : 08 Oct 2025 18:35
 Operator : RC/JU
 Sample : Q3309-13 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-44(0-0.5)

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/09/2025
 Supervised By :Jagrut Upadhyay 10/09/2025

Quant Time: Oct 08 18:56:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	113236	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	427676	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	224872	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	345579	20.000	ng	0.00
76) Chrysene-d12	14.057	240	289193	20.000	ng	-0.01
86) Perylene-d12	15.539	264	273703	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	247211	34.668	ng	-0.01
7) Phenol-d6	6.493	99	301056	35.420	ng	-0.02
23) Nitrobenzene-d5	7.440	82	174738	24.823	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	59354	26.500	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	361012	25.474	ng	-0.01
79) Terphenyl-d14	12.998	244	308477	18.230	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	150816	9.002	ng	99
75) Fluoranthene	12.628	202	283202	16.365	ng	99
78) Pyrene	12.857	202	290248	12.039	ng	99
81) Benzo(a)anthracene	14.045	228	167073	8.828	ng	99
83) Chrysene	14.080	228	151230	8.634	ng	98
87) Indeno(1,2,3-cd)pyrene	17.021	276	48892	2.915	ng	95
88) Benzo(b)fluoranthene	15.104	252	168705m	10.730	ng	
89) Benzo(k)fluoranthene	15.121	252	52948m	3.639	ng	
90) Benzo(a)pyrene	15.474	252	114514	8.400	ng	# 96
92) Benzo(g,h,i)perylene	17.474	276	44970	3.334	ng	96

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

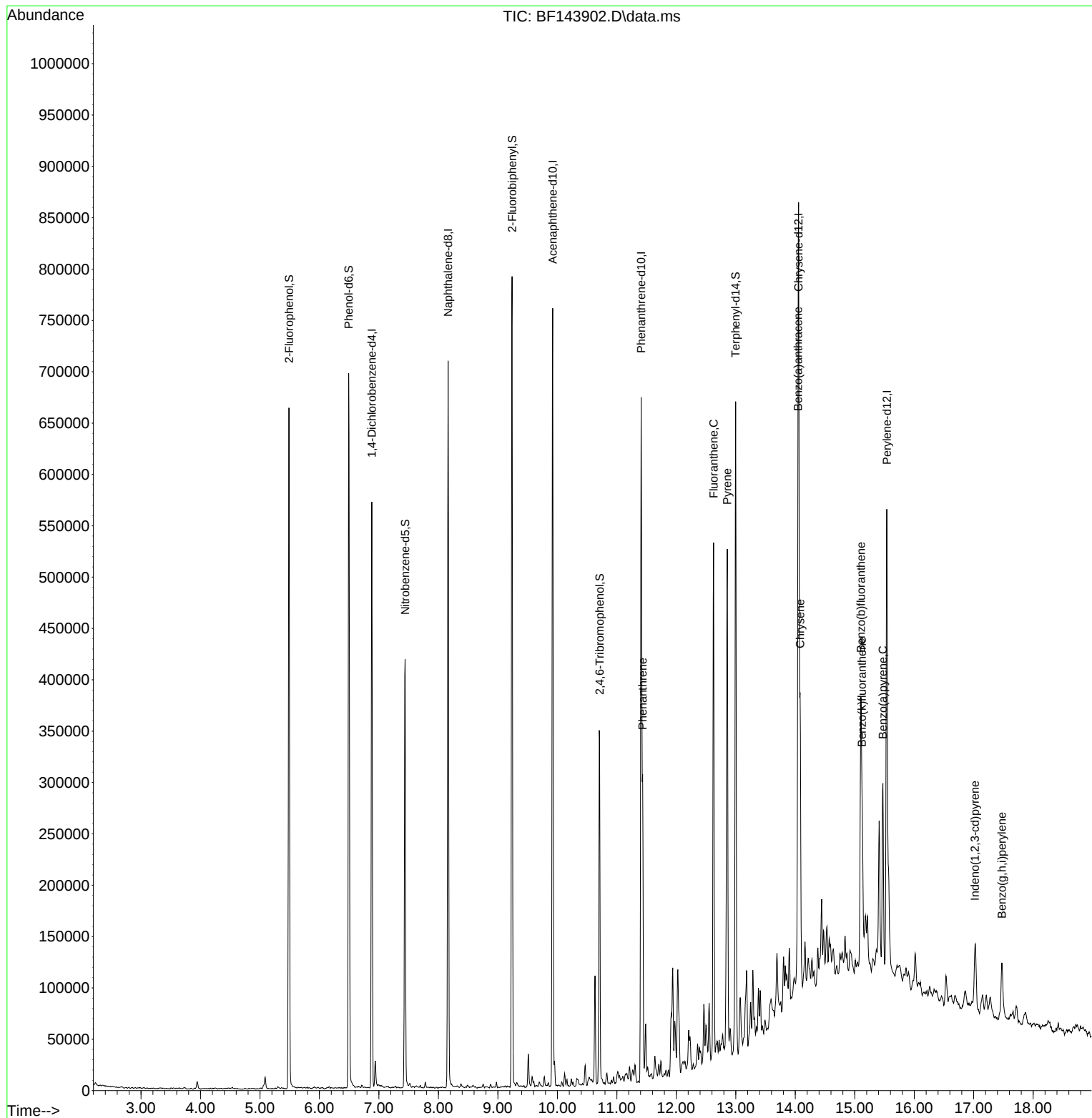
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100825\
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Response via : Initial Calibration

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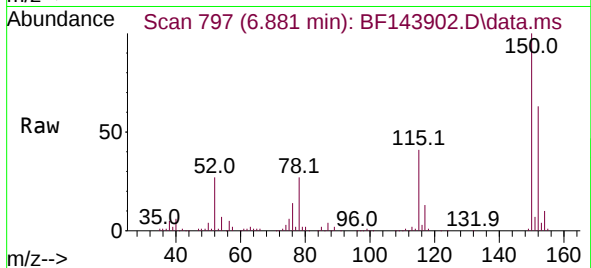
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

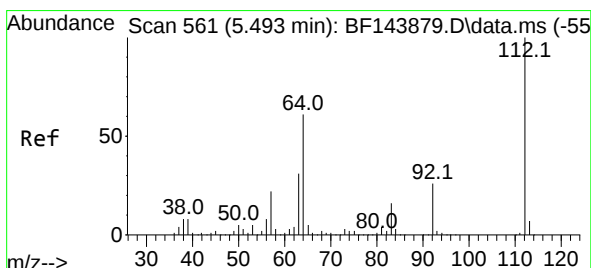
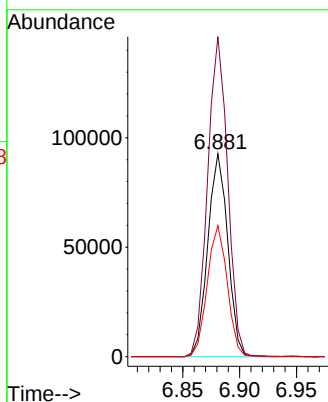
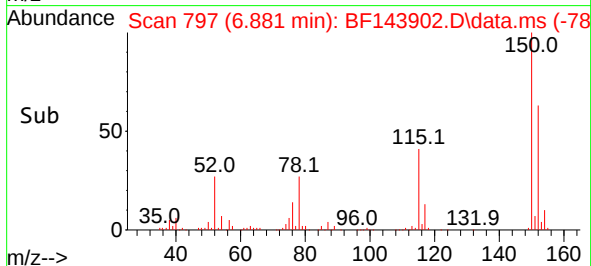
Instrument :
BNA_F
ClientSampleId :
S-44(0-0.5)



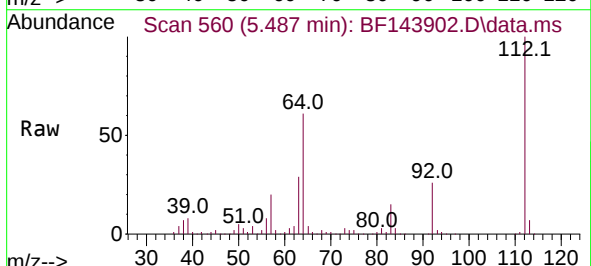
Tgt Ion:152 Resp: 113236
Ion Ratio Lower Upper
152 100
150 157.8 124.4 186.6
115 64.6 48.1 72.1

Manual Integrations
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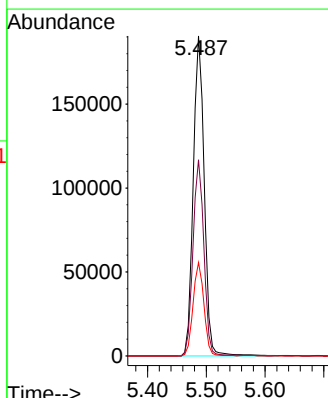
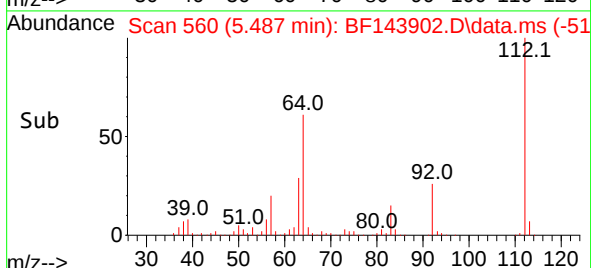
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#5
2-Fluorophenol
Concen: 34.668 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.012 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35



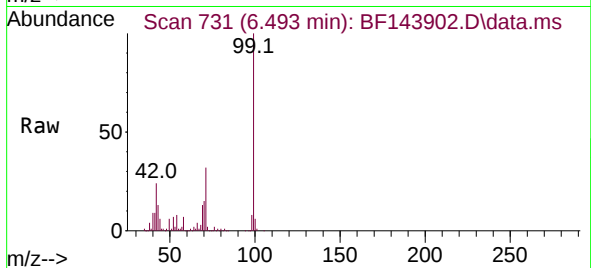
Tgt Ion:112 Resp: 247211
Ion Ratio Lower Upper
112 100
64 61.3 49.1 73.7
63 29.2 24.5 36.7





#7
Phenol-d6
Concen: 35.420 ng
RT: 6.493 min Scan# 731
Delta R.T. -0.023 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

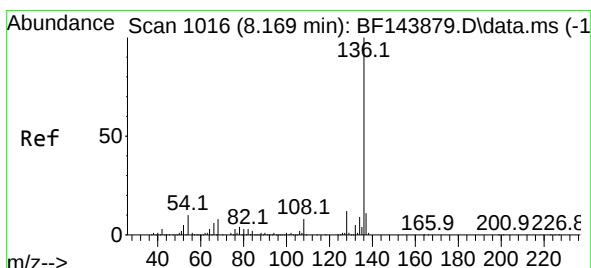
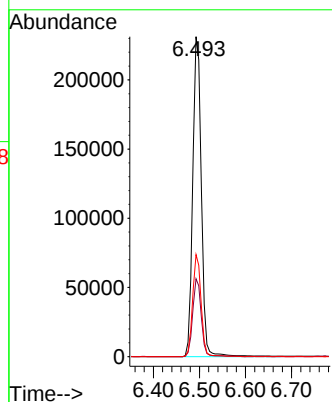
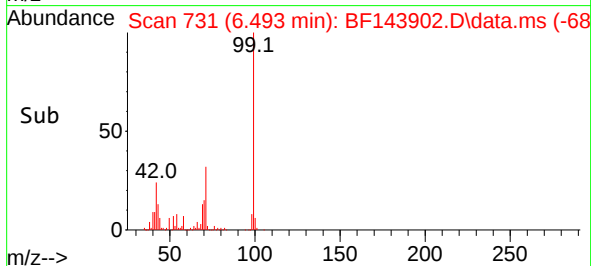
Instrument :
BNA_F
ClientSampleId :
S-44(0-0.5)



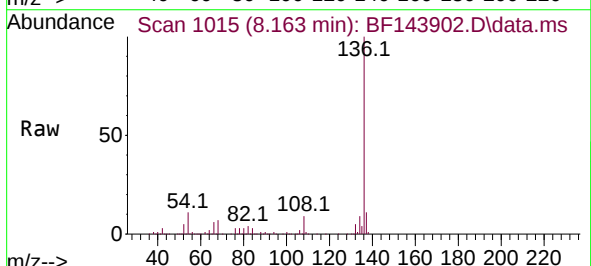
Tgt Ion: 99 Resp: 301056
Ion Ratio Lower Upper
99 100
42 24.3 21.0 31.4
71 31.9 27.8 41.8

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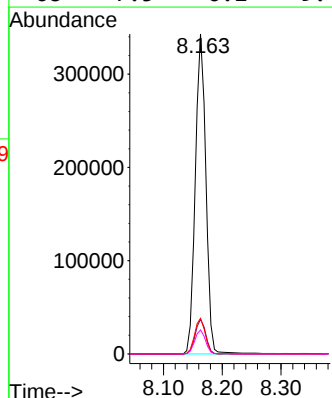
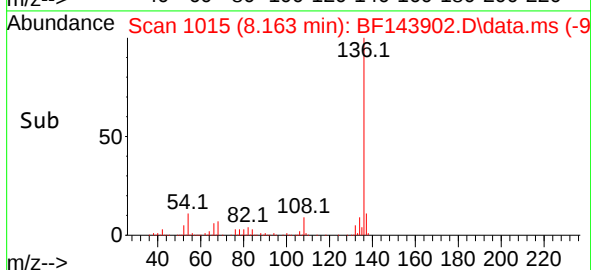
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

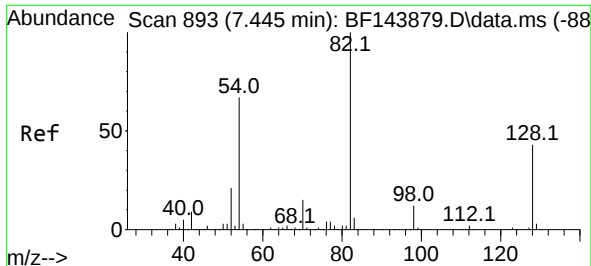


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35



Tgt Ion:136 Resp: 427676
Ion Ratio Lower Upper
136 100
137 10.9 8.5 12.7
54 11.1 8.2 12.4
68 7.5 6.2 9.4





#23

Nitrobenzene-d5

Concen: 24.823 ng

RT: 7.440 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF143902.D

Acq: 08 Oct 2025 18:35

Instrument :

BNA_F

ClientSampleId :

S-44(0-0.5)

Tgt Ion: 82 Resp: 174738

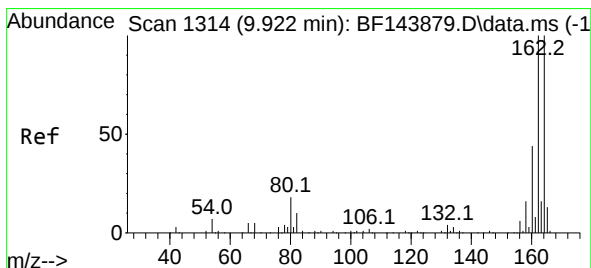
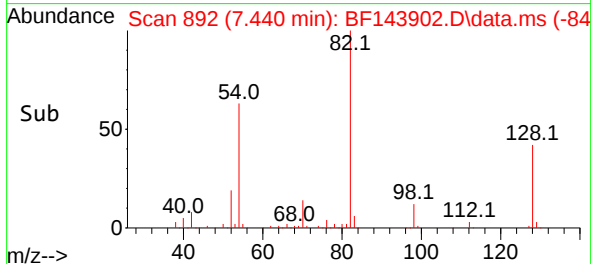
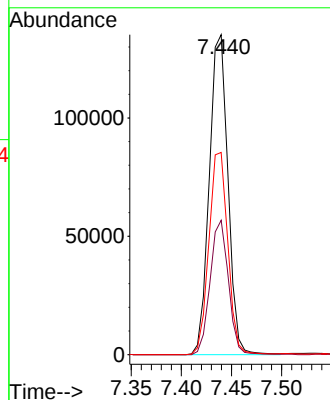
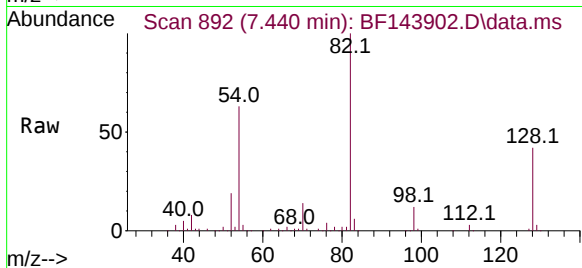
Ion	Ratio	Lower	Upper
82	100		
128	42.0	34.0	51.0
54	63.2	53.2	79.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 10/09/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

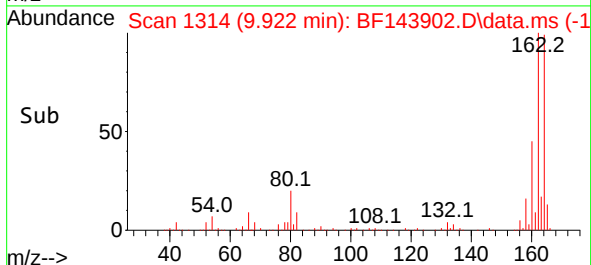
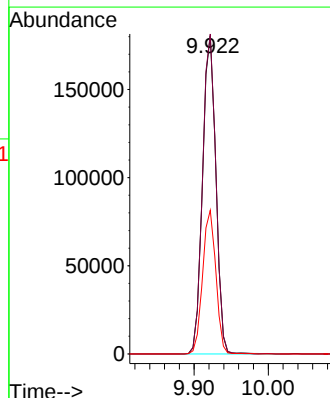
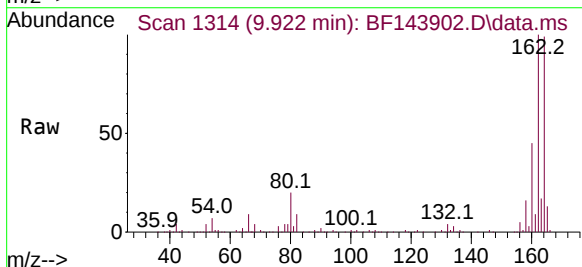
Delta R.T. -0.005 min

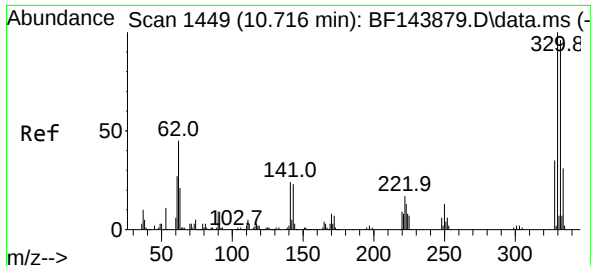
Lab File: BF143902.D

Acq: 08 Oct 2025 18:35

Tgt Ion:164 Resp: 224872

Ion	Ratio	Lower	Upper
164	100		
162	100.6	80.2	120.2
160	45.1	35.4	53.0





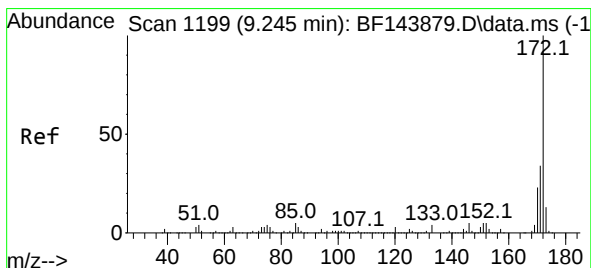
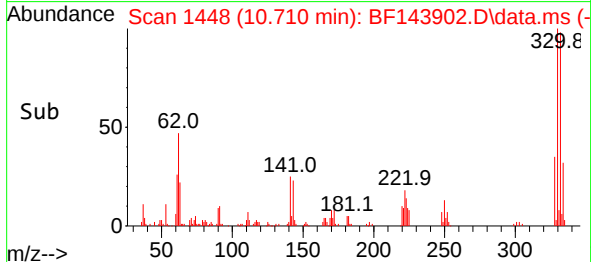
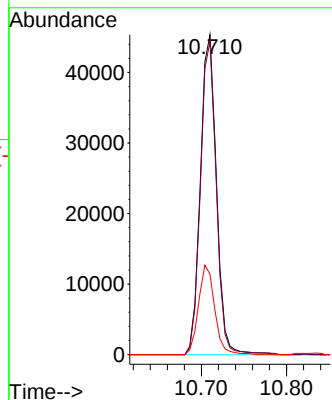
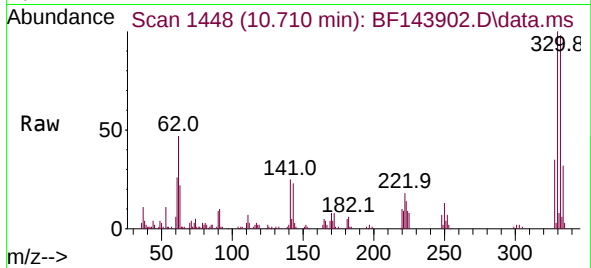
#42
2,4,6-Tribromophenol
Concen: 26.500 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

Instrument :
BNA_F
ClientSampleId :
S-44(0-0.5)

Tgt Ion:330 Resp: 59354
Ion Ratio Lower Upper
330 100
332 96.4 76.9 115.3
141 28.2 20.2 30.4

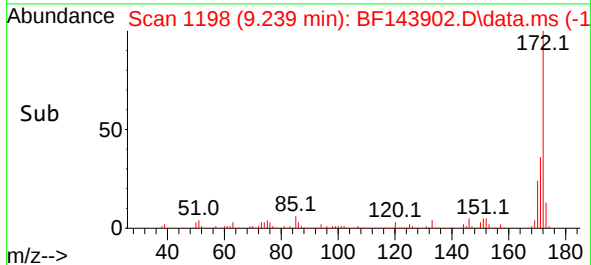
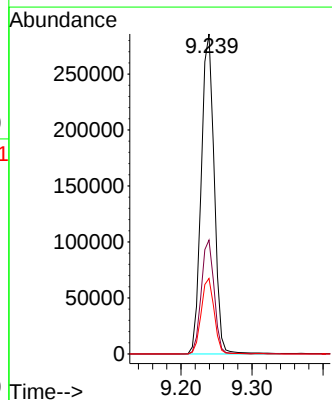
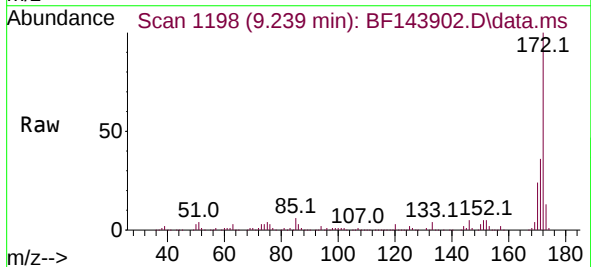
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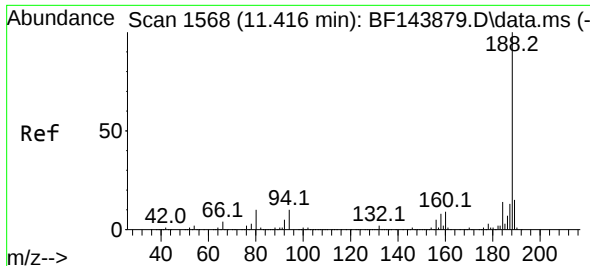
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#45
2-Fluorobiphenyl
Concen: 25.474 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.011 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

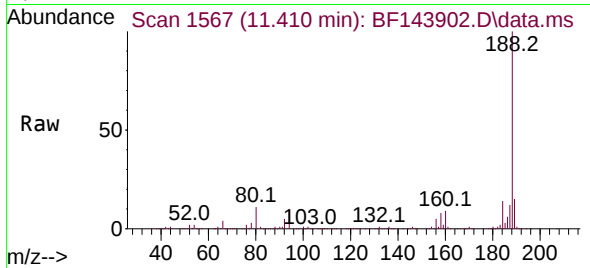
Tgt Ion:172 Resp: 361012
Ion Ratio Lower Upper
172 100
171 35.6 27.4 41.0
170 23.6 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

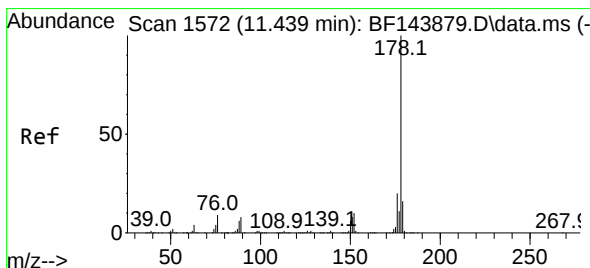
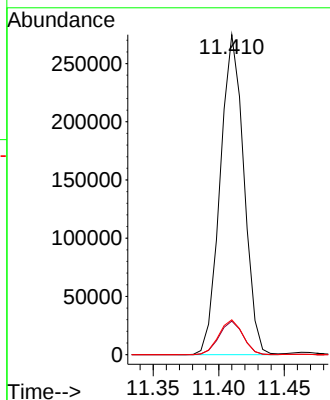
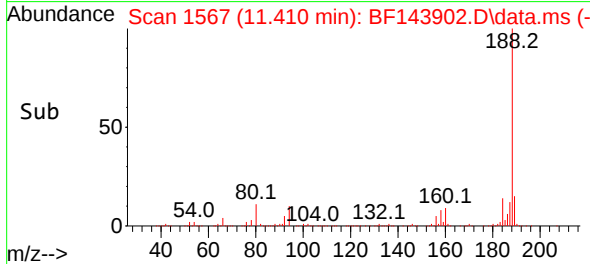
Instrument :
BNA_F
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S-44(0-0.5)



Tgt Ion:188 Resp: 345579
Ion Ratio Lower Upper
188 100
94 10.5 7.8 11.6
80 10.9 7.9 11.9

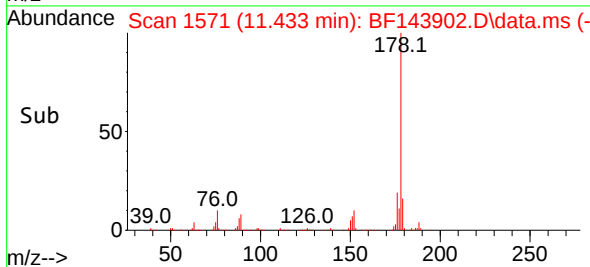
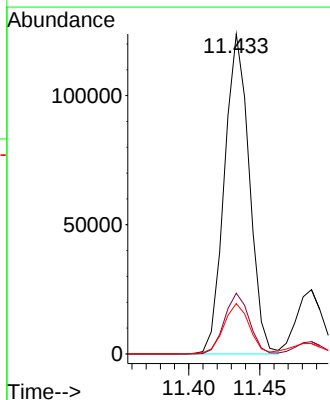
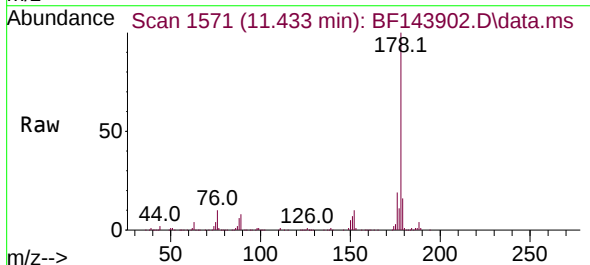
Manual Integrations
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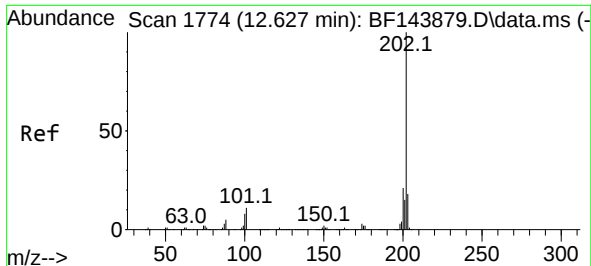
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#71
Phenanthrene
Concen: 9.002 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

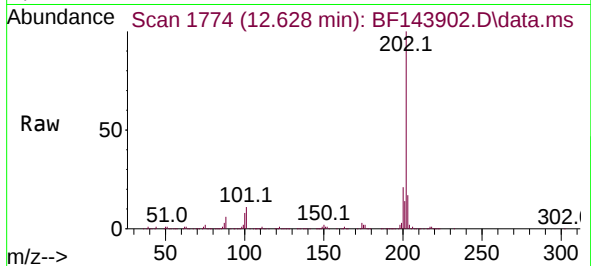
Tgt Ion:178 Resp: 150816
Ion Ratio Lower Upper
178 100
176 19.0 15.9 23.9
179 15.7 12.4 18.6





#75
Fluoranthene
Concen: 16.365 ng
RT: 12.628 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

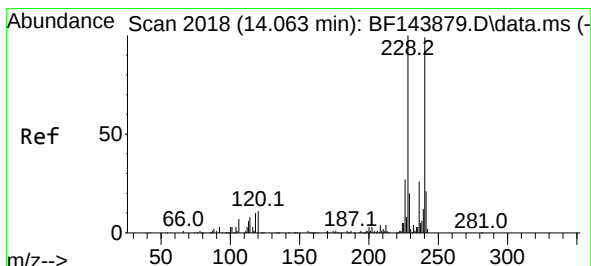
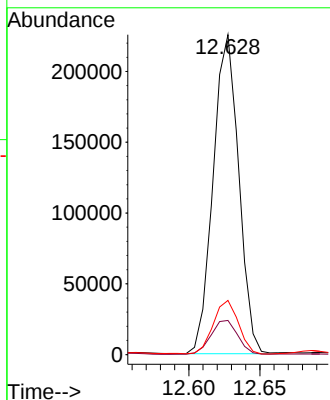
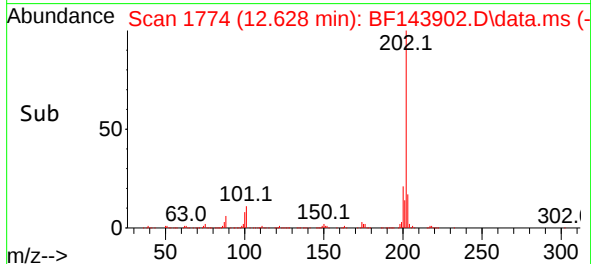
Instrument :
BNA_F
ClientSampleId :
S-44(0-0.5)



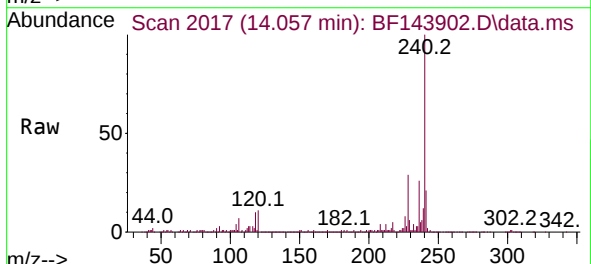
Tgt Ion:202 Resp: 283202
Ion Ratio Lower Upper
202 100
101 10.7 0.0 30.7
203 16.9 0.0 37.8

Manual Integrations
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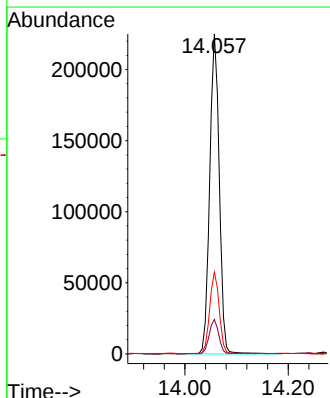
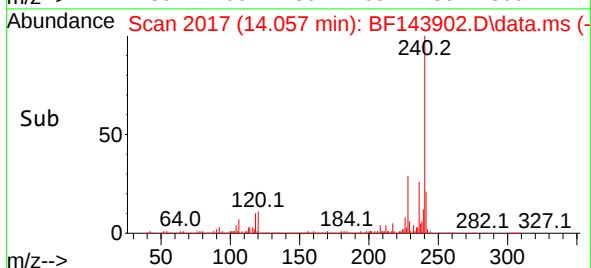
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

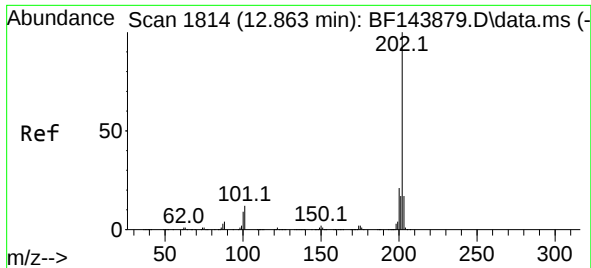


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.011 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35



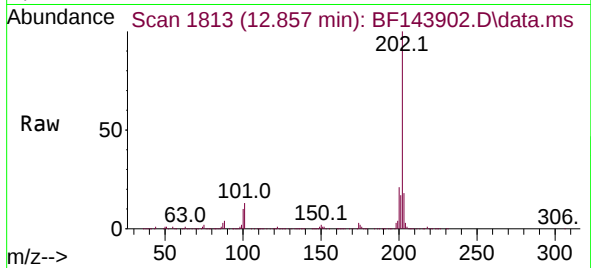
Tgt Ion:240 Resp: 289193
Ion Ratio Lower Upper
240 100
120 10.7 8.6 13.0
236 25.6 21.1 31.7





#78
Pyrene
Concen: 12.039 ng
RT: 12.857 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

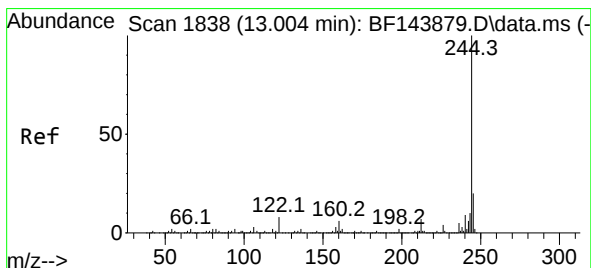
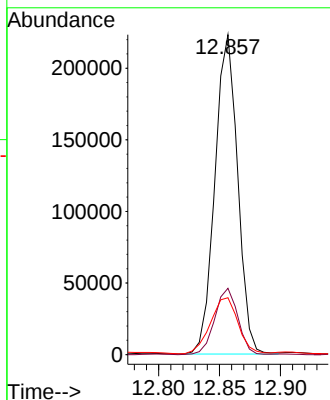
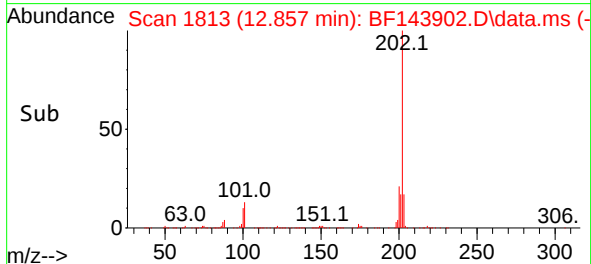
Instrument :
BNA_F
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S-44(0-0.5)



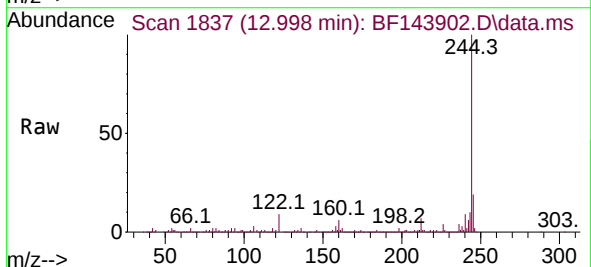
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Ion Ratio Lower Upper
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200 20.7 17.0 25.6
203 17.8 13.8 20.6

Manual Integrations
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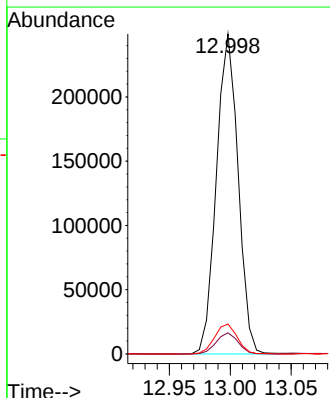
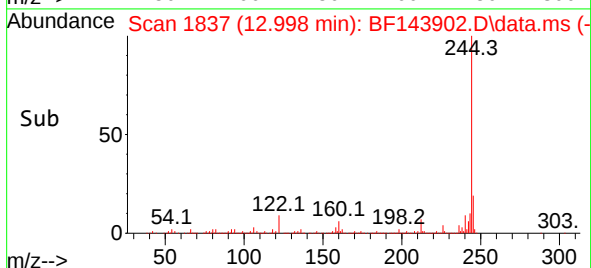
Reviewed By :Rahul Chavli 10/09/2025
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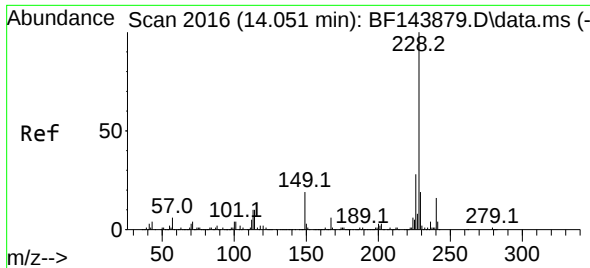


#79
Terphenyl-d14
Concen: 18.230 ng
RT: 12.998 min Scan# 1837
Delta R.T. -0.012 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35



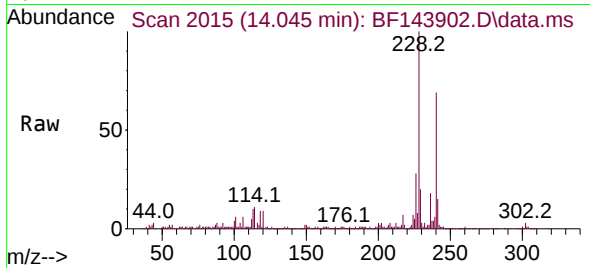
Tgt Ion:244 Resp: 308477
Ion Ratio Lower Upper
244 100
212 6.6 5.4 8.0
122 9.3 6.4 9.6





#81
Benzo(a)anthracene
Concen: 8.828 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

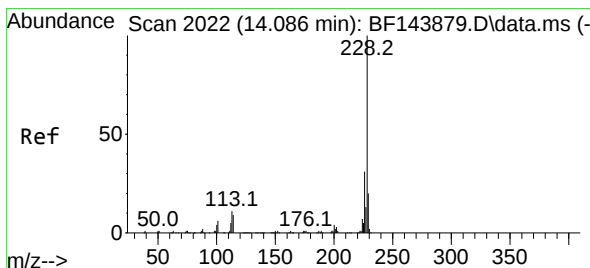
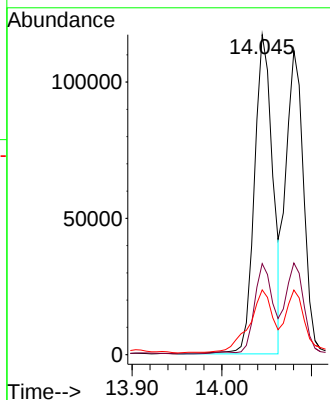
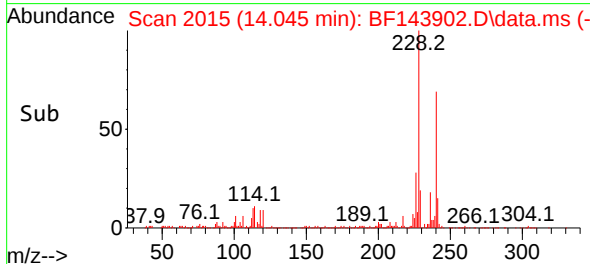
Instrument :
BNA_F
ClientSampleId :
S-44(0-0.5)



Tgt Ion:228 Resp: 167073
Ion Ratio Lower Upper
228 100
226 28.4 22.2 33.2
229 20.2 15.6 23.4

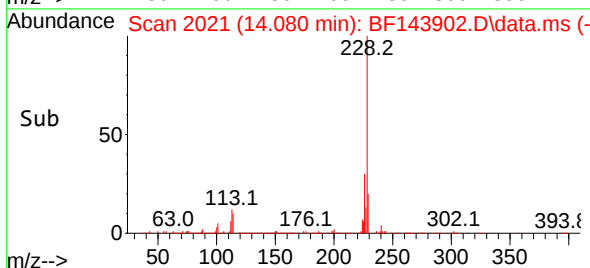
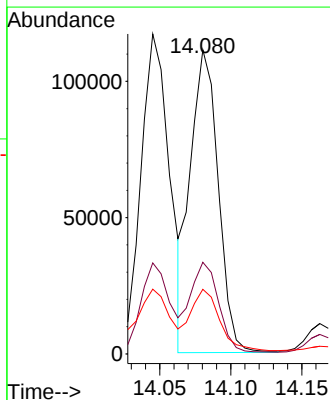
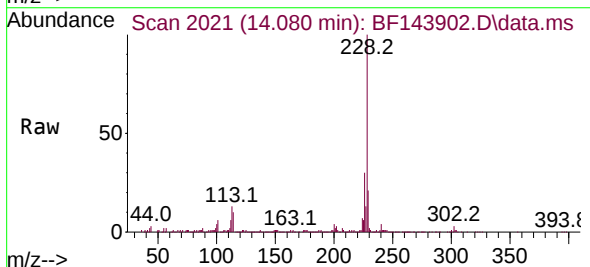
Manual Integrations
APPROVED

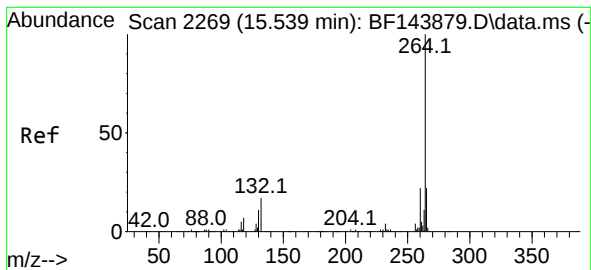
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#83
Chrysene
Concen: 8.634 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.012 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

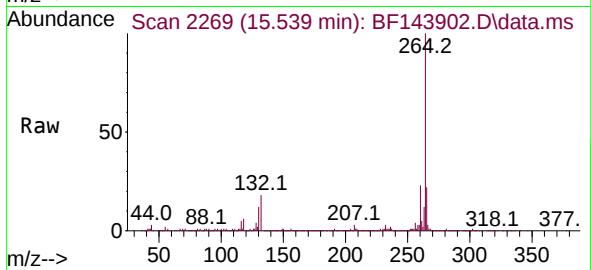
Tgt Ion:228 Resp: 151230
Ion Ratio Lower Upper
228 100
226 30.1 24.4 36.6
229 21.2 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

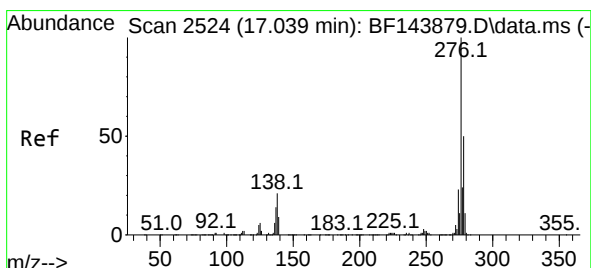
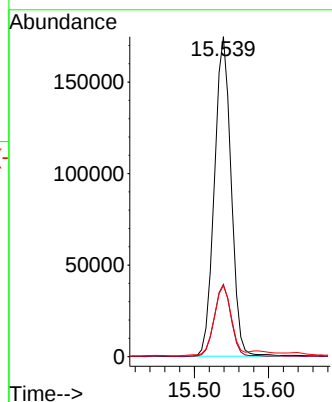
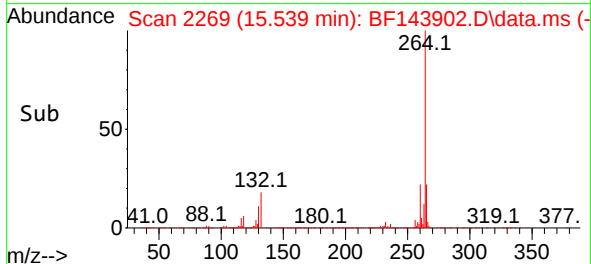
Instrument :
BNA_F
ClientSampleId :
S-44(0-0.5)



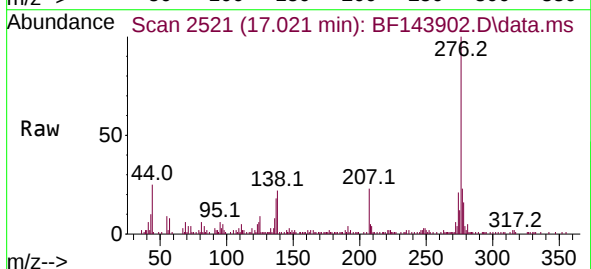
Tgt Ion:264 Resp: 273703
Ion Ratio Lower Upper
264 100
260 22.6 17.8 26.8
265 22.2 17.5 26.3

Manual Integrations
APPROVED

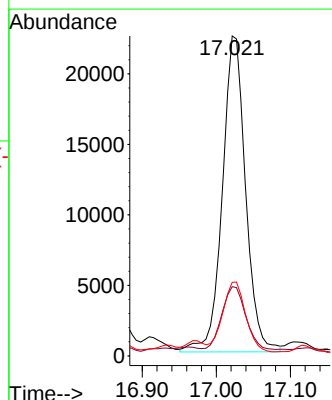
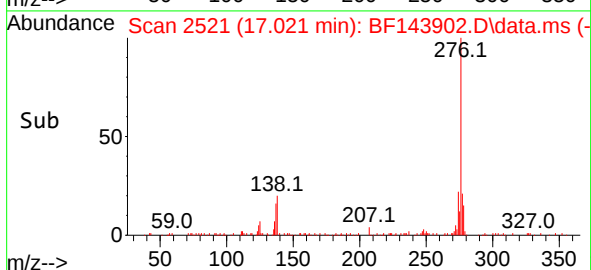
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

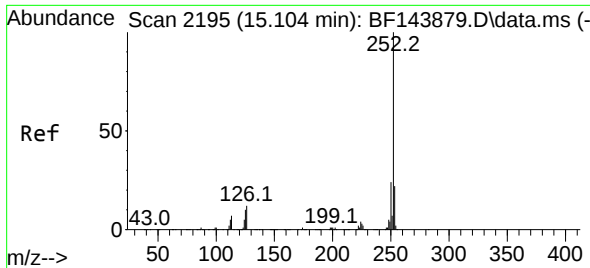


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.915 ng
RT: 17.021 min Scan# 2521
Delta R.T. -0.035 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35



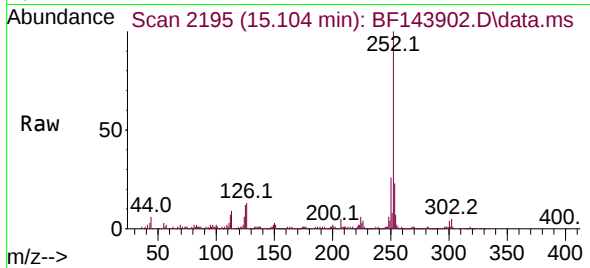
Tgt Ion:276 Resp: 48892
Ion Ratio Lower Upper
276 100
138 20.3 18.2 27.2
277 22.0 19.8 29.6





#88
Benzo(b)fluoranthene
Concen: 10.730 ng m
RT: 15.104 min Scan# 2195
Delta R.T. -0.012 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

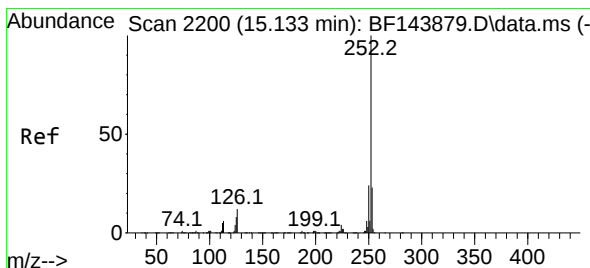
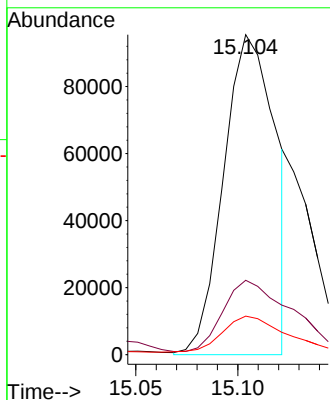
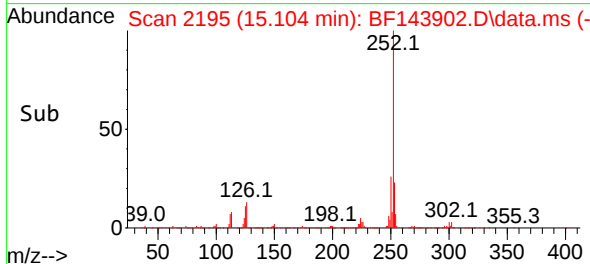
Instrument :
BNA_F
ClientSampleId :
S-44(0-0.5)



Tgt Ion:252 Resp: 168705
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 12.0 7.8 11.6

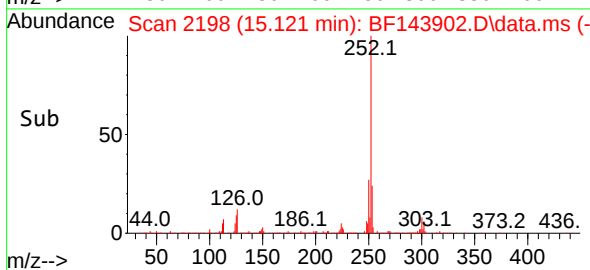
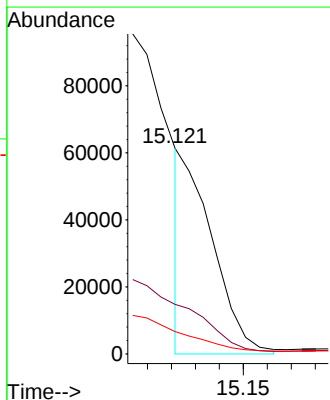
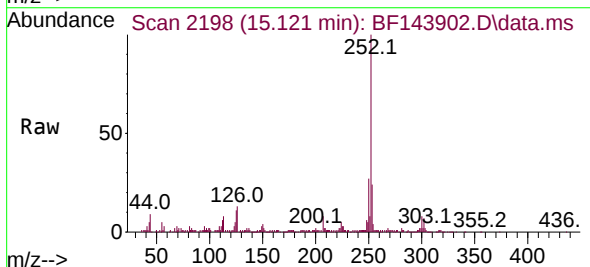
Manual Integrations
APPROVED

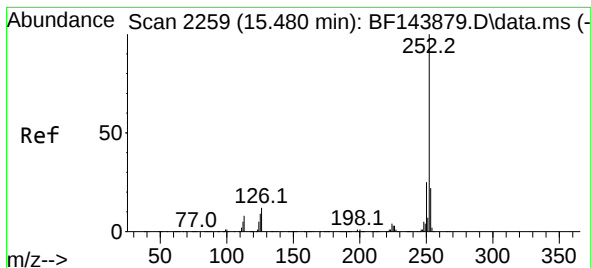
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#89
Benzo(k)fluoranthene
Concen: 3.639 ng m
RT: 15.121 min Scan# 2198
Delta R.T. -0.023 min
Lab File: BF143902.D
Acq: 08 Oct 2025 18:35

Tgt Ion:252 Resp: 52948
Ion Ratio Lower Upper
252 100
253 24.1 17.8 26.8
125 10.9 7.4 11.2





#90

Benzo(a)pyrene

Concen: 8.400 ng

RT: 15.474 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF143902.D

Acq: 08 Oct 2025 18:35

Instrument :

BNA_F

ClientSampleId :

S-44(0-0.5)

Tgt Ion:252 Resp: 114514

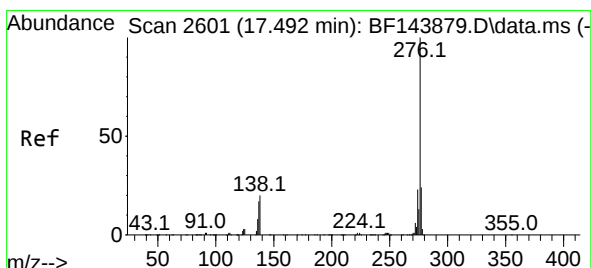
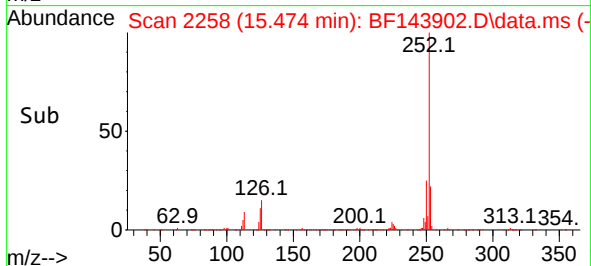
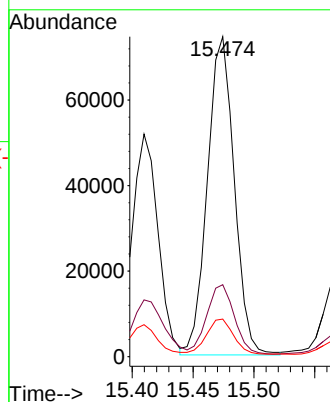
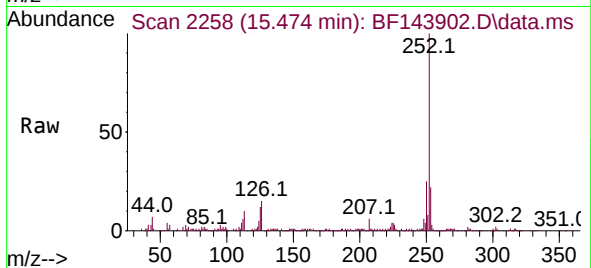
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.3	25.9
125	11.7	7.0	10.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/09/2025

Supervised By :Jagrut Upadhyay 10/09/2025



#92

Benzo(g,h,i)perylene

Concen: 3.334 ng

RT: 17.474 min Scan# 2598

Delta R.T. -0.041 min

Lab File: BF143902.D

Acq: 08 Oct 2025 18:35

Tgt Ion:276 Resp: 44970

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.0	28.6
138	23.7	16.1	24.1

