

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102025\
 Data File : BF144002.D
 Acq On : 20 Oct 2025 16:56
 Operator : RC/JU
 Sample : Q3374-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4-WC

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

Quant Time: Oct 20 17:19:32 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	110827	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	418899	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	225245	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	377686	20.000	ng	0.00
76) Chrysene-d12	14.057	240	241791	20.000	ng	-0.01
86) Perylene-d12	15.545	264	297533	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	572196	81.987	ng	0.00
7) Phenol-d6	6.498	99	698476	83.964	ng	-0.02
23) Nitrobenzene-d5	7.440	82	403753	58.558	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	169242	75.437	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	681468	48.006	ng	-0.01
79) Terphenyl-d14	12.998	244	667090	47.153	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	50261	2.745	ng	97
75) Fluoranthene	12.627	202	169805	8.978	ng	98
78) Pyrene	12.857	202	152488	7.565	ng	98
81) Benzo(a)anthracene	14.045	228	109322m	6.909	ng	
83) Chrysene	14.080	228	100466	6.860	ng	97
87) Indeno(1,2,3-cd)pyrene	17.039	276	81805	4.487	ng	98
88) Benzo(b)fluoranthene	15.110	252	177584m	10.390	ng	
89) Benzo(k)fluoranthene	15.127	252	48114m	3.042	ng	
90) Benzo(a)pyrene	15.480	252	128045	8.640	ng	# 98
92) Benzo(g,h,i)perylene	17.492	276	74104	5.054	ng	97

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

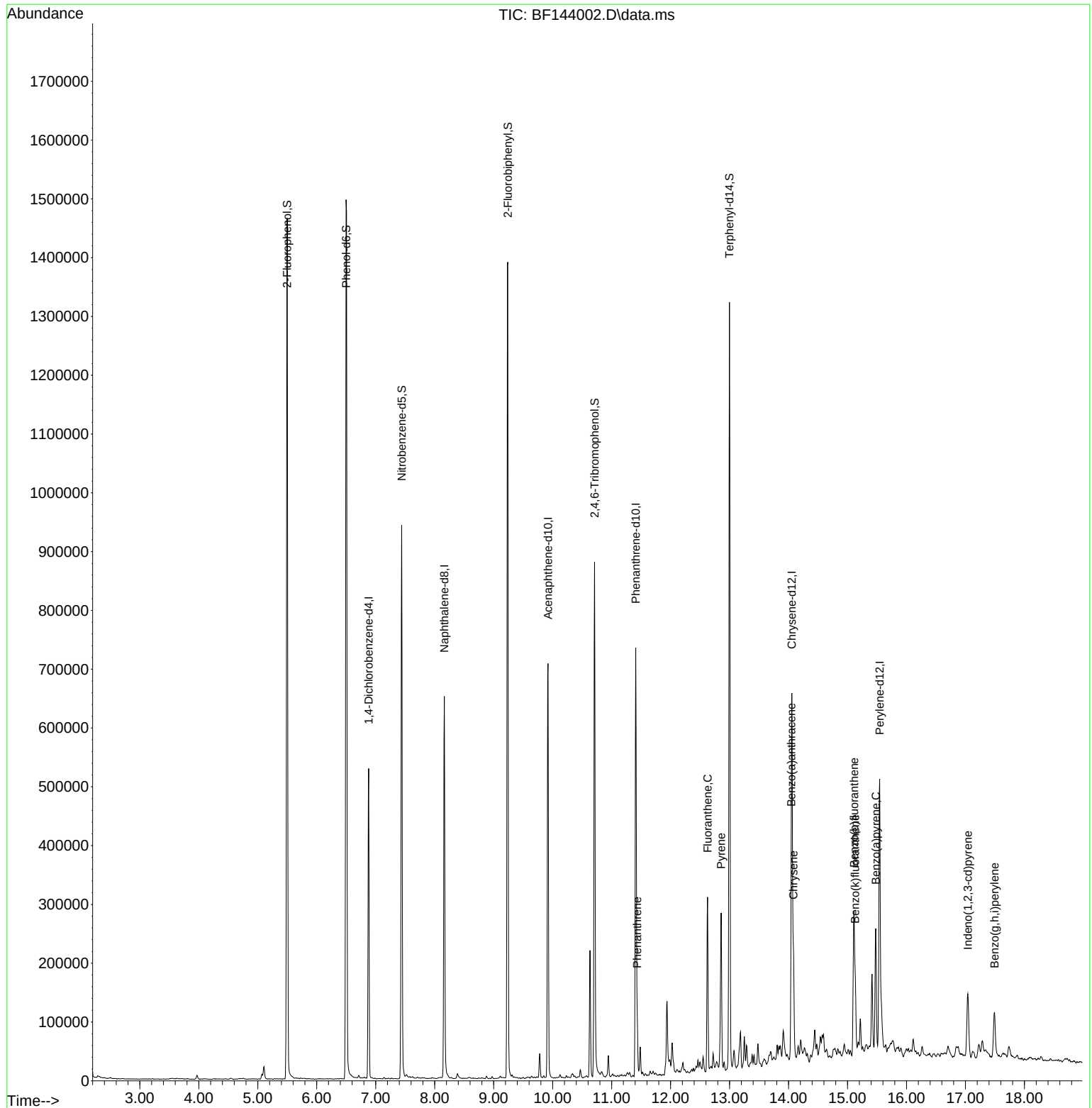
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102025\
Data File : BF144002.D
Acq On : 20 Oct 2025 16:56
Operator : RC/JU
Sample : Q3374-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

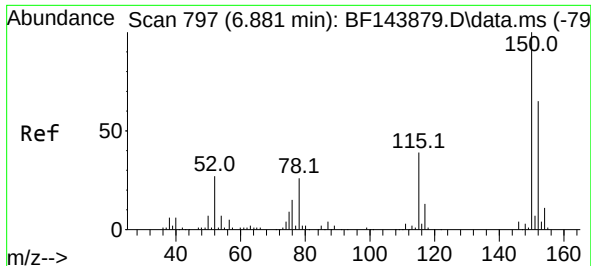
Instrument :
BNA_F
ClientSampleId :
TP-4-WC

Quant Time: Oct 20 17:19:32 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

Manual Integrations
APPROVED

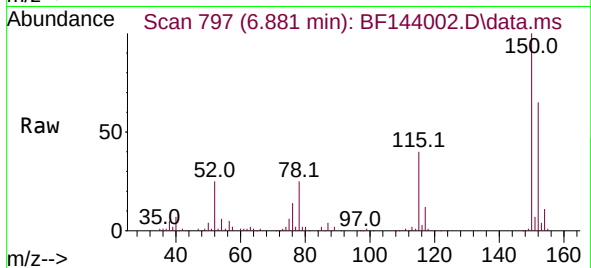
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

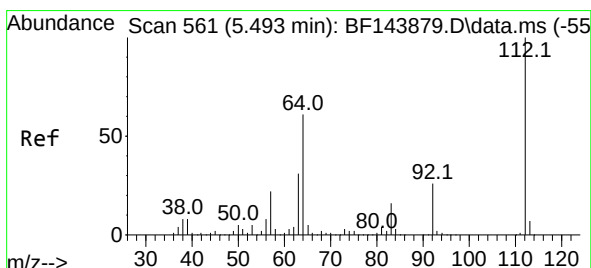
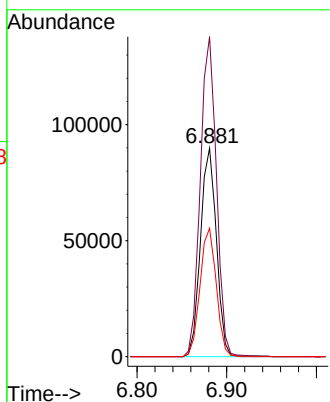
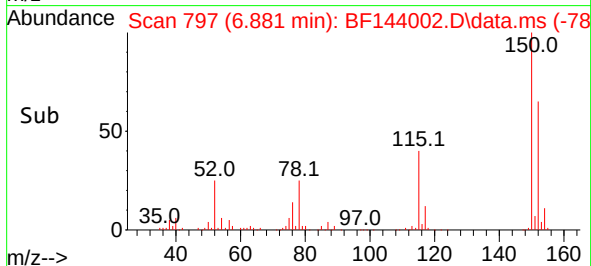
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



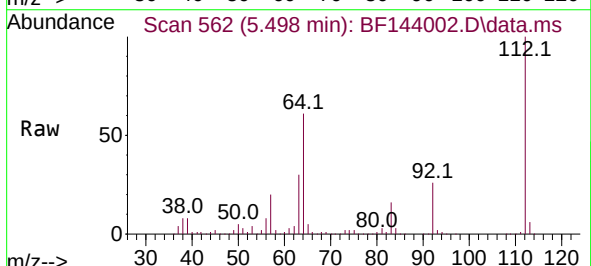
Tgt Ion:152 Resp: 110827
Ion Ratio Lower Upper
152 100
150 153.6 124.4 186.6
115 61.6 48.1 72.1

Manual Integrations
APPROVED

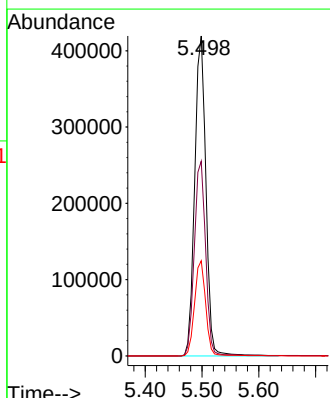
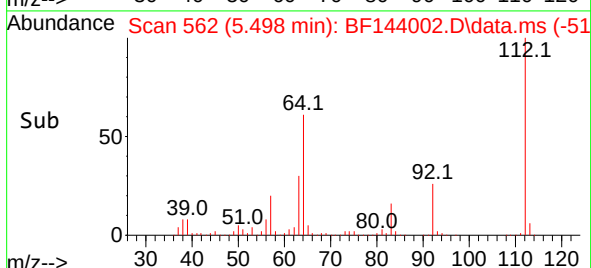
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

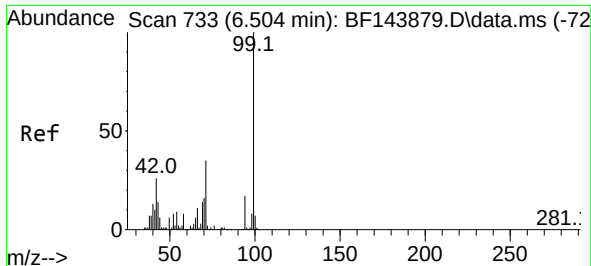


#5
2-Fluorophenol
Concen: 81.987 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56



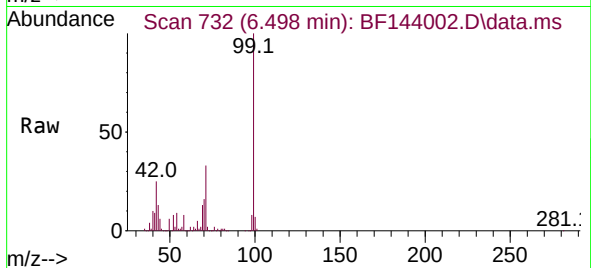
Tgt Ion:112 Resp: 572196
Ion Ratio Lower Upper
112 100
64 60.8 49.1 73.7
63 29.7 24.5 36.7





#7
Phenol-d6
Concen: 83.964 ng
RT: 6.498 min Scan# 731
Delta R.T. -0.017 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

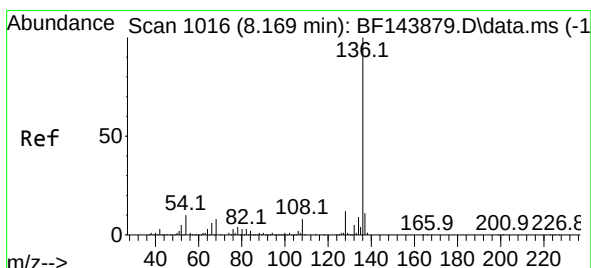
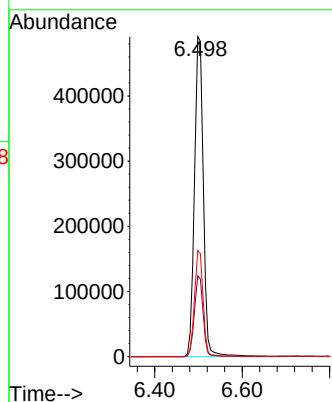
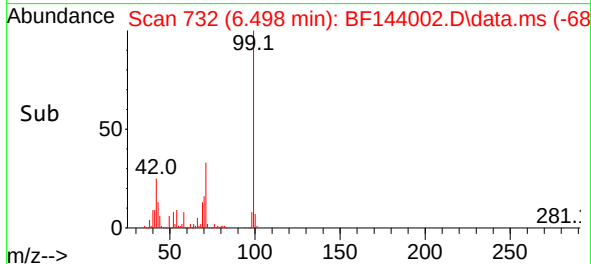
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



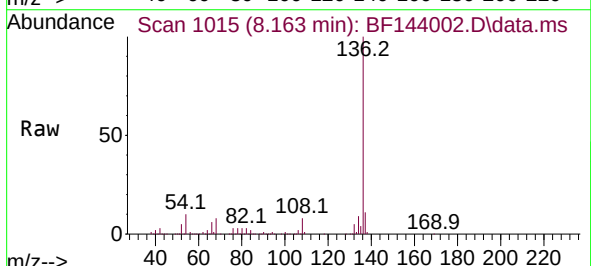
Tgt Ion: 99 Resp: 698476
Ion Ratio Lower Upper
99 100
42 25.3 21.0 31.4
71 33.1 27.8 41.8

Manual Integrations
APPROVED

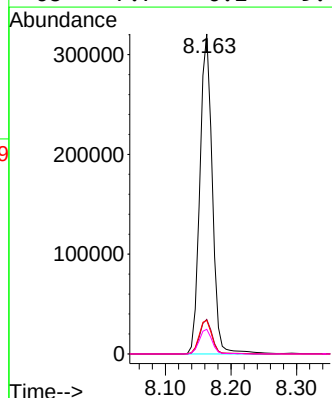
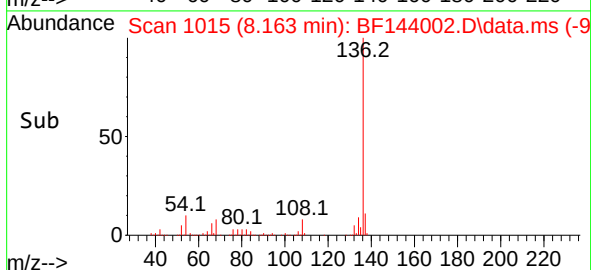
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

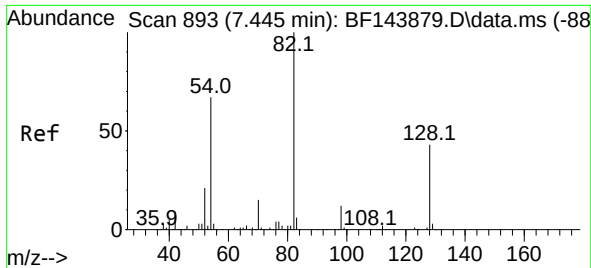


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56



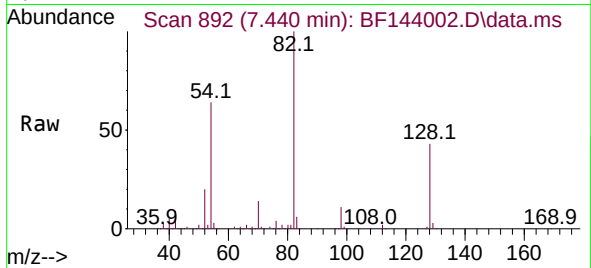
Tgt Ion:136 Resp: 418899
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 10.5 8.2 12.4
68 7.7 6.2 9.4





#23
Nitrobenzene-d5
Concen: 58.558 ng
RT: 7.440 min Scan# 893
Delta R.T. -0.017 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

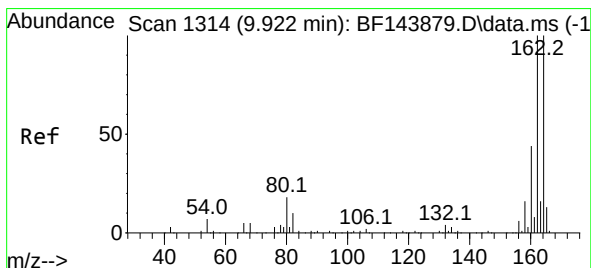
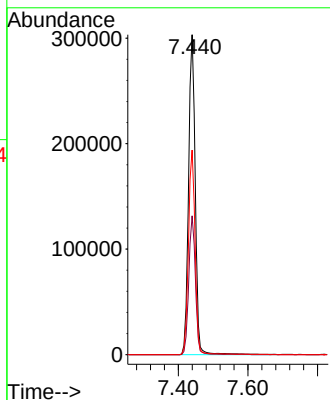
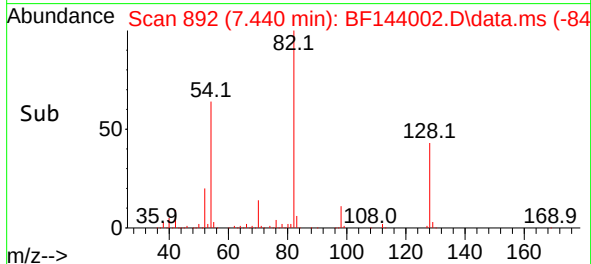
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



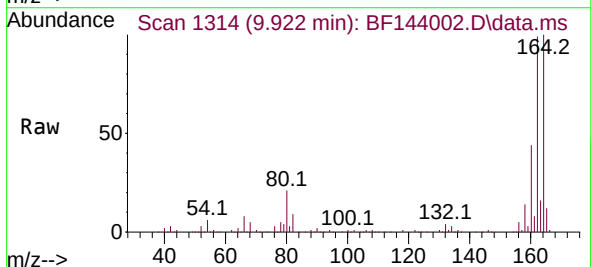
Tgt Ion: 82 Resp: 403753
Ion Ratio Lower Upper
82 100
128 43.4 34.0 51.0
54 63.9 53.2 79.8

Manual Integrations
APPROVED

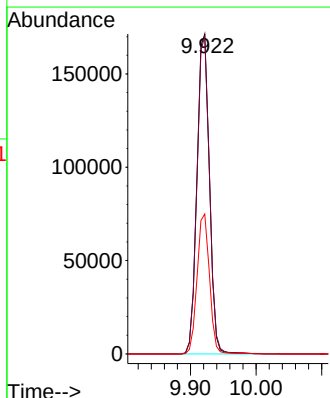
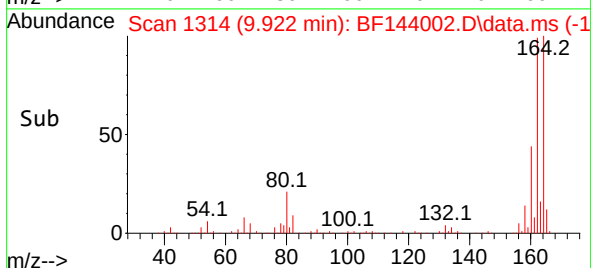
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

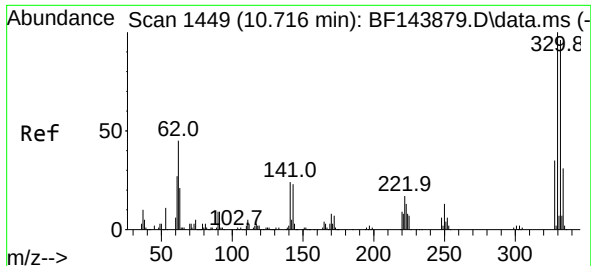


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56



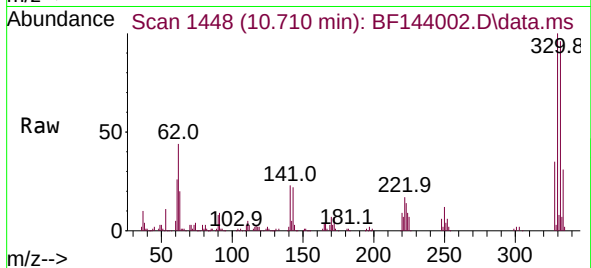
Tgt Ion:164 Resp: 225245
Ion Ratio Lower Upper
164 100
162 99.2 80.2 120.2
160 43.7 35.4 53.0





#42
2,4,6-Tribromophenol
Concen: 75.437 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

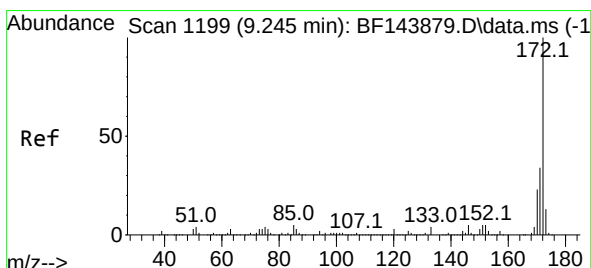
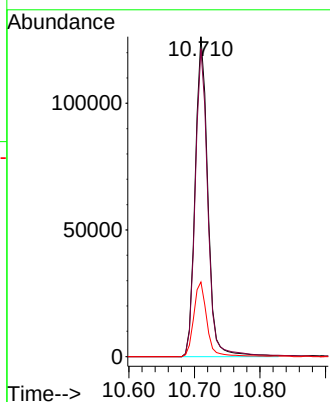
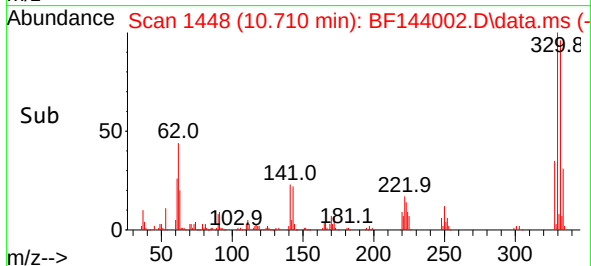
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



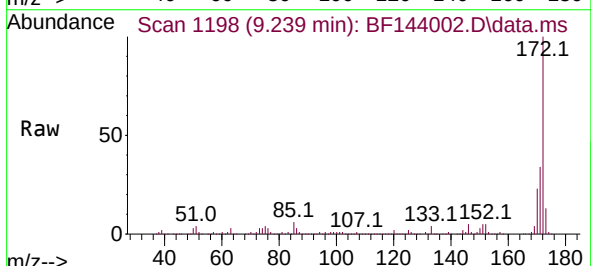
Tgt Ion: 330 Resp: 169242
Ion Ratio Lower Upper
330 100
332 96.6 76.9 115.3
141 24.2 20.2 30.4

Manual Integrations
APPROVED

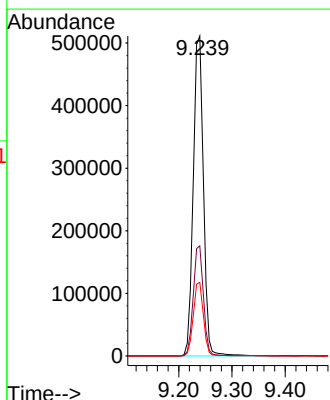
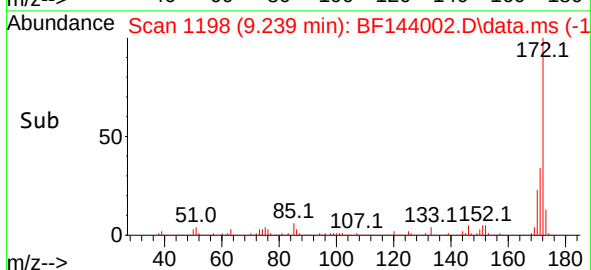
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

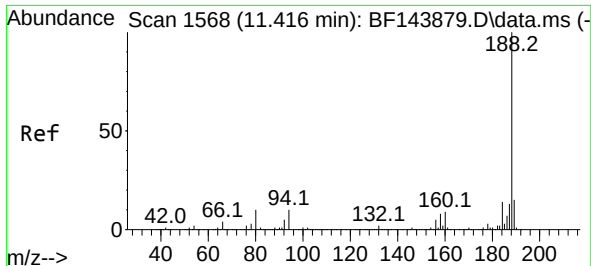


#45
2-Fluorobiphenyl
Concen: 48.006 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56



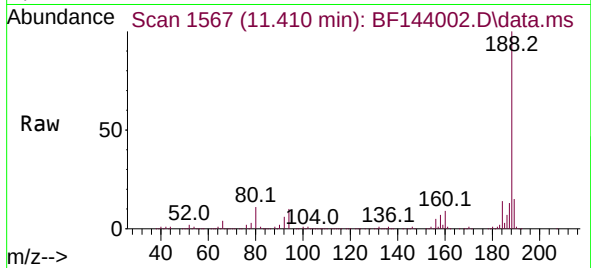
Tgt Ion: 172 Resp: 681468
Ion Ratio Lower Upper
172 100
171 34.4 27.4 41.0
170 23.0 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

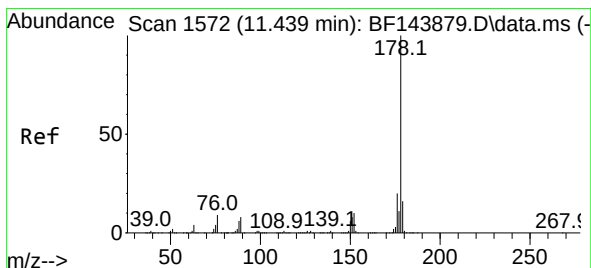
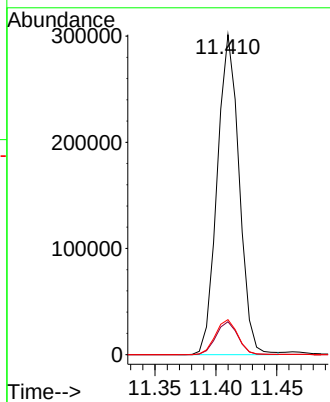
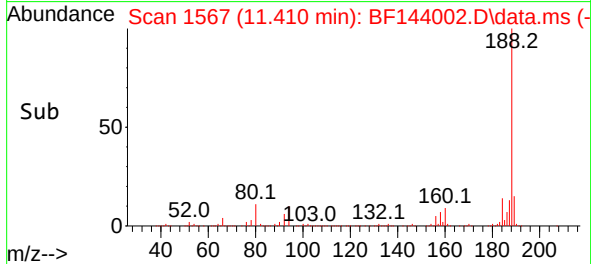
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



Tgt Ion:188 Resp: 377686
Ion Ratio Lower Upper
188 100
94 10.3 7.8 11.6
80 10.9 7.9 11.9

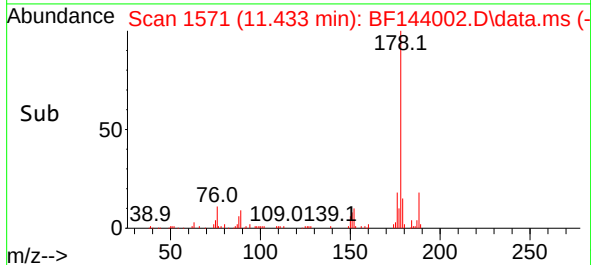
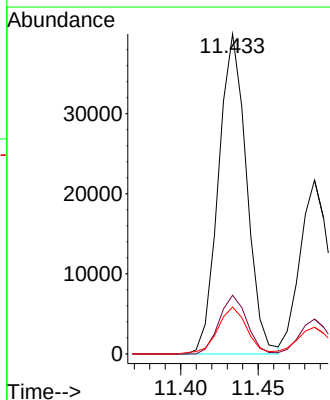
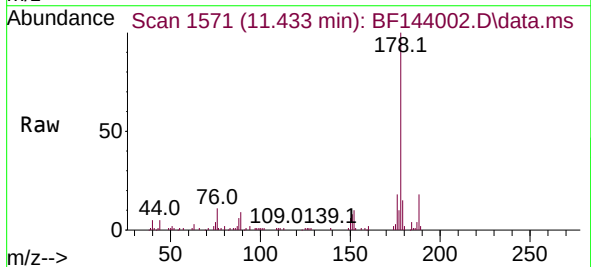
Manual Integrations
APPROVED

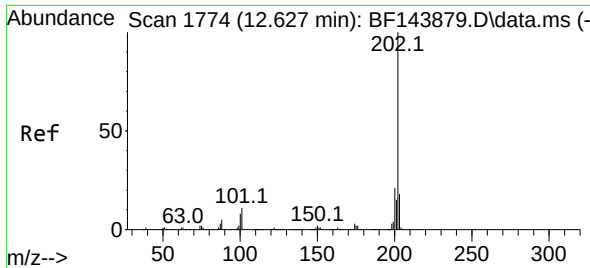
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#71
Phenanthrene
Concen: 2.745 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

Tgt Ion:178 Resp: 50261
Ion Ratio Lower Upper
178 100
176 18.3 15.9 23.9
179 14.6 12.4 18.6





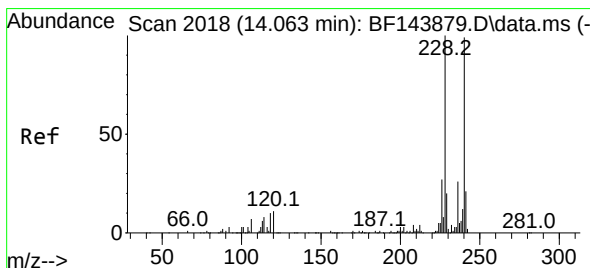
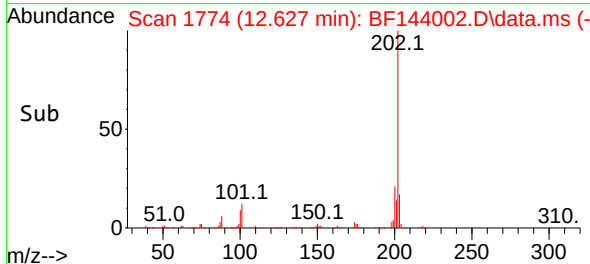
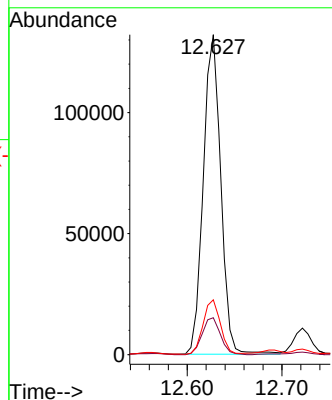
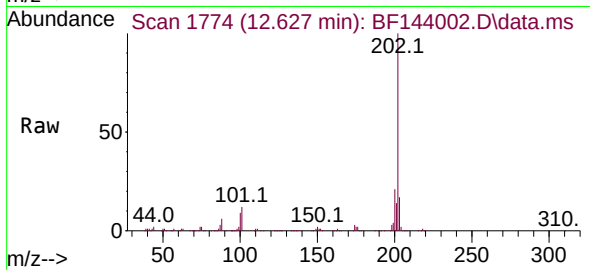
#75
Fluoranthene
Concen: 8.978 ng
RT: 12.627 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

Instrument :
BNA_F
ClientSampleId :
TP-4-WC

Tgt Ion:202 Resp: 169805
Ion Ratio Lower Upper
202 100
101 11.5 0.0 30.7
203 17.1 0.0 37.8

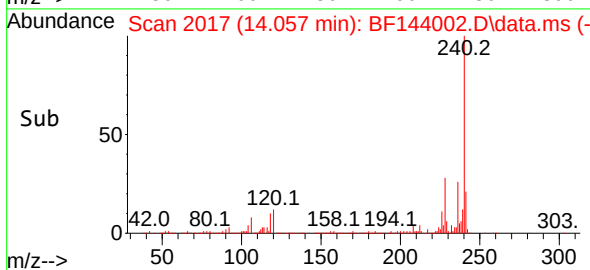
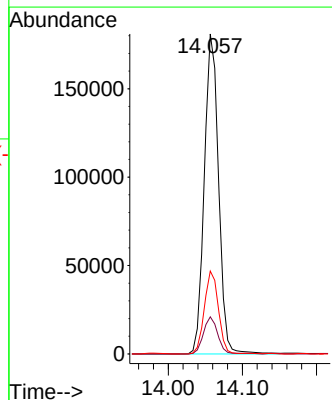
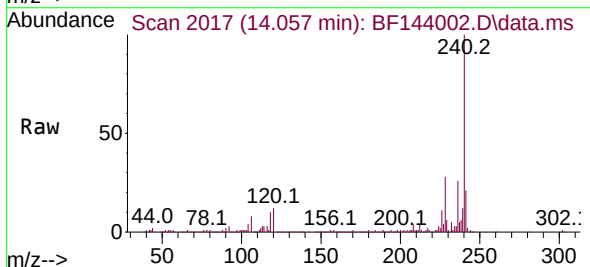
Manual Integrations
APPROVED

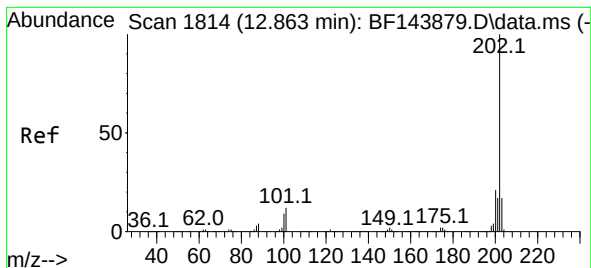
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.011 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

Tgt Ion:240 Resp: 241791
Ion Ratio Lower Upper
240 100
120 11.6 8.6 13.0
236 25.9 21.1 31.7





#78

Pyrene

Concen: 7.565 ng

RT: 12.857 min Scan# 1814

Delta R.T. -0.006 min

Lab File: BF144002.D

Acq: 20 Oct 2025 16:56

Instrument :

BNA_F

ClientSampleId :

TP-4-WC

Tgt Ion:202 Resp: 152488

Ion Ratio Lower Upper

202 100

200 20.0 17.0 25.6

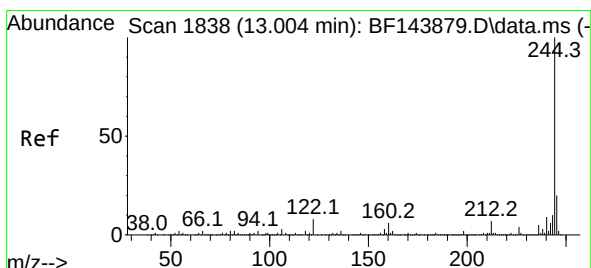
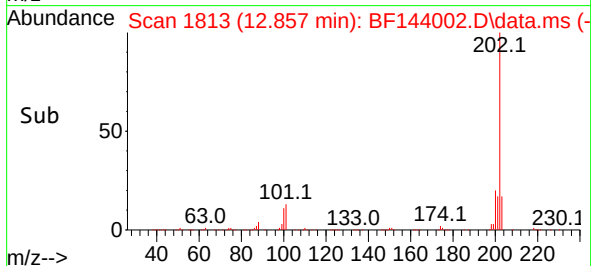
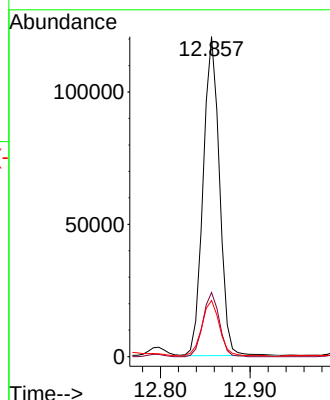
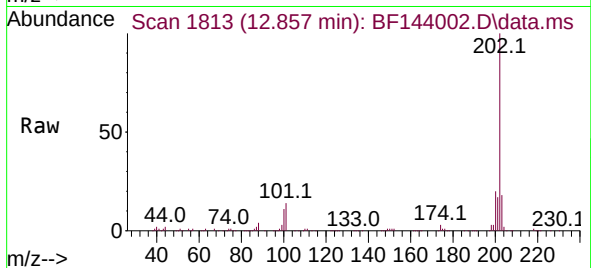
203 17.5 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#79

Terphenyl-d14

Concen: 47.153 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.012 min

Lab File: BF144002.D

Acq: 20 Oct 2025 16:56

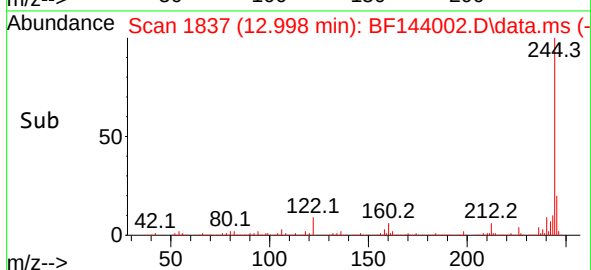
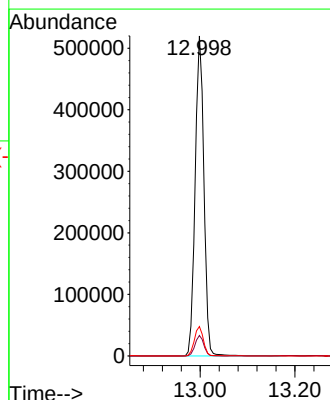
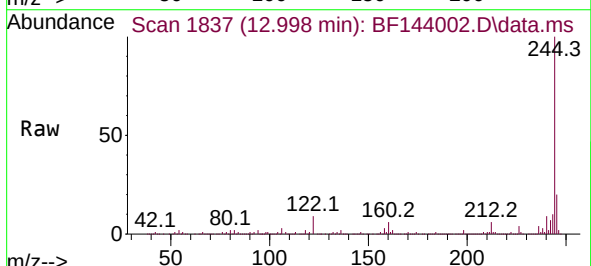
Tgt Ion:244 Resp: 667090

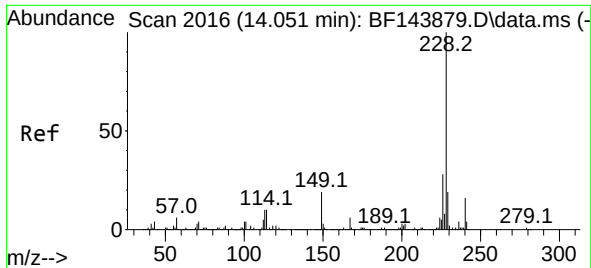
Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

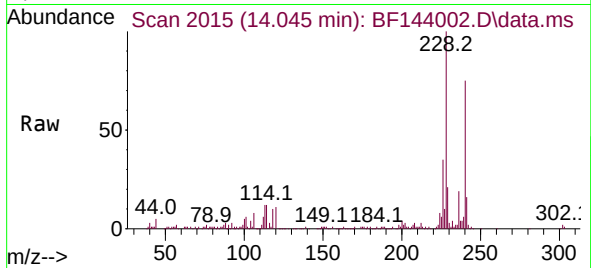
122 9.2 6.4 9.6





#81
Benzo(a)anthracene
Concen: 6.909 ng m
RT: 14.045 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

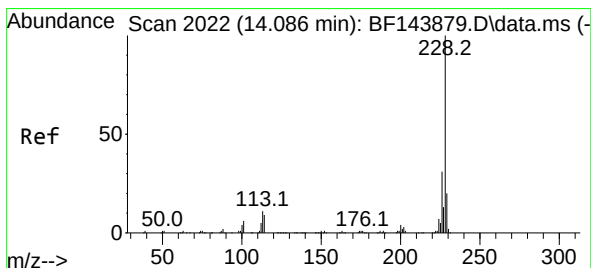
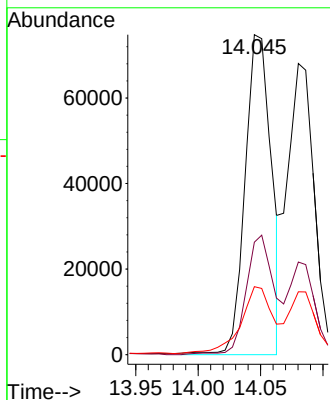
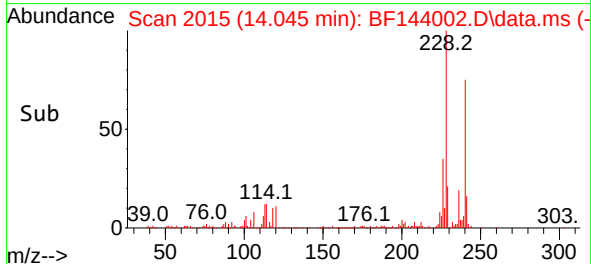
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



Tgt Ion:228 Resp: 109322
Ion Ratio Lower Upper
228 100
226 35.1 22.2 33.2
229 21.2 15.6 23.4

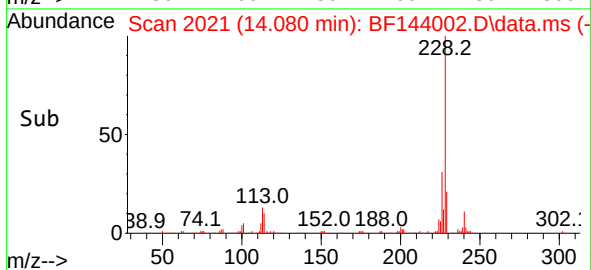
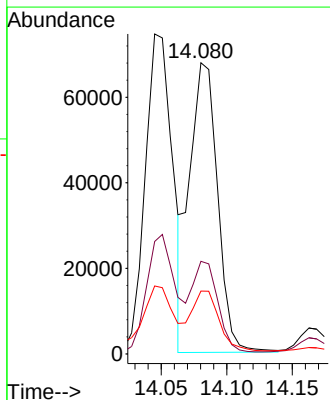
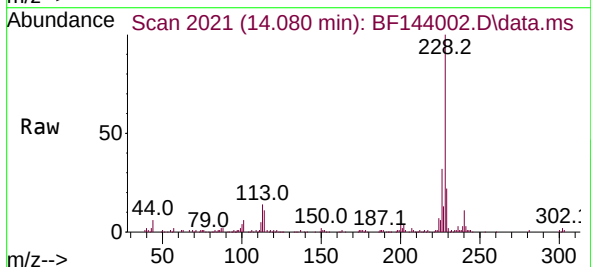
Manual Integrations
APPROVED

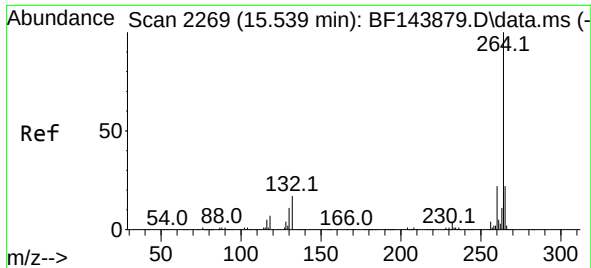
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#83
Chrysene
Concen: 6.860 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.012 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

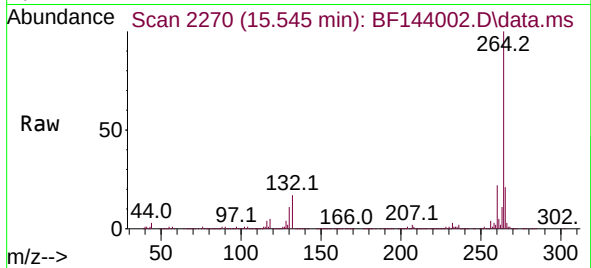
Tgt Ion:228 Resp: 100466
Ion Ratio Lower Upper
228 100
226 31.8 24.4 36.6
229 21.6 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

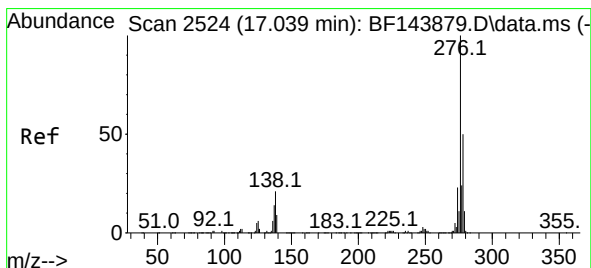
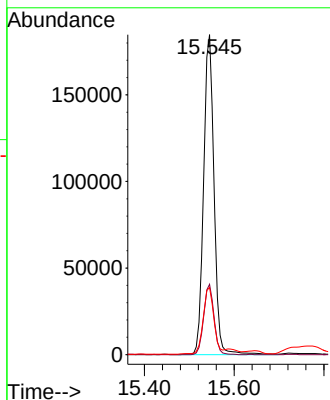
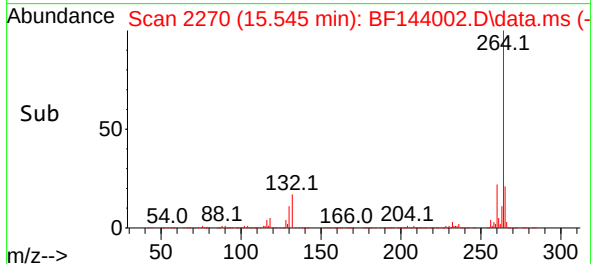
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



Tgt Ion:264 Resp: 297533
Ion Ratio Lower Upper
264 100
260 22.0 17.8 26.8
265 21.0 17.5 26.3

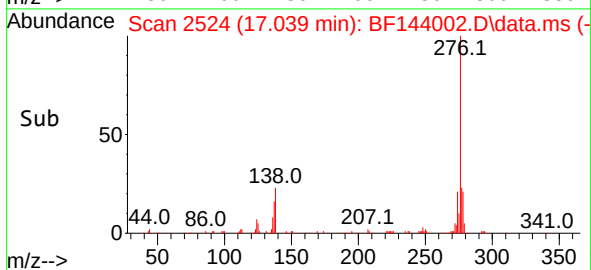
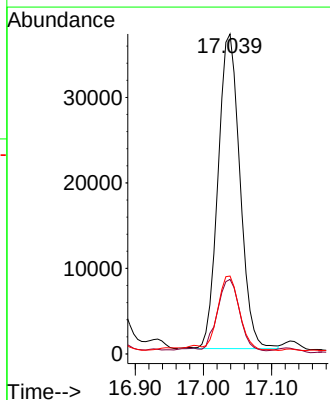
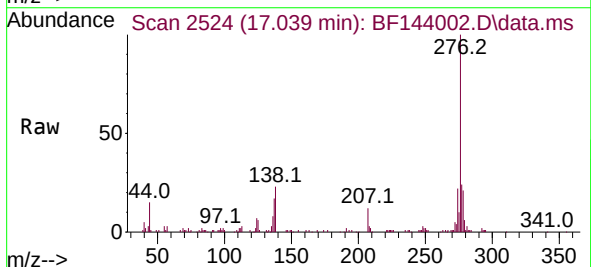
Manual Integrations
APPROVED

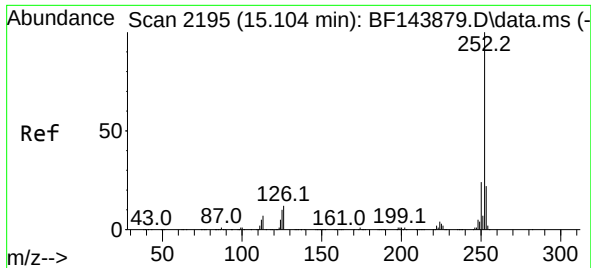
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.487 ng
RT: 17.039 min Scan# 2524
Delta R.T. -0.017 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

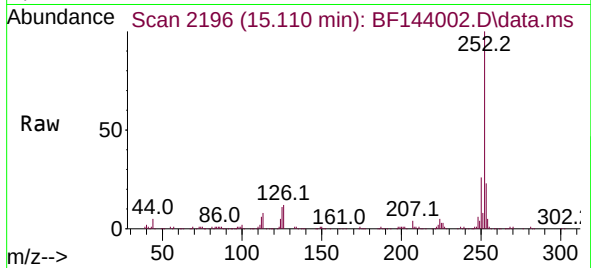
Tgt Ion:276 Resp: 81805
Ion Ratio Lower Upper
276 100
138 23.1 18.2 27.2
277 23.6 19.8 29.6





#88
Benzo(b)fluoranthene
Concen: 10.390 ng m
RT: 15.110 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

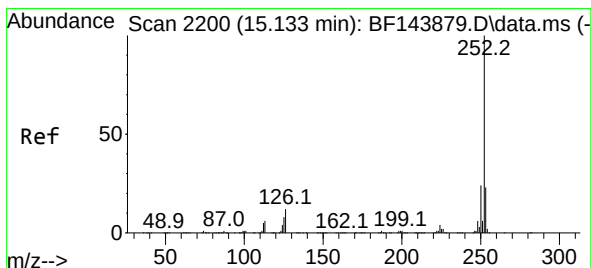
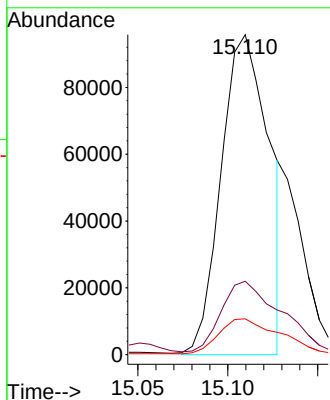
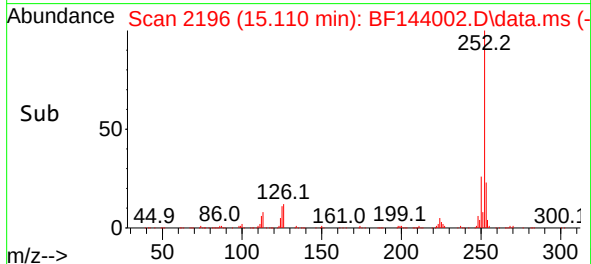
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



Tgt Ion:252 Resp: 177584
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.2
125 11.2 7.8 11.6

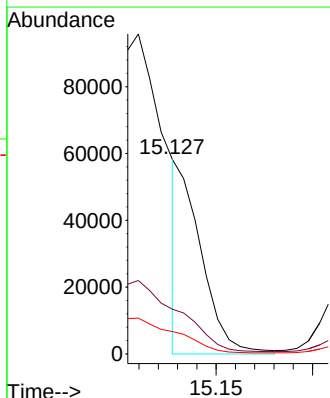
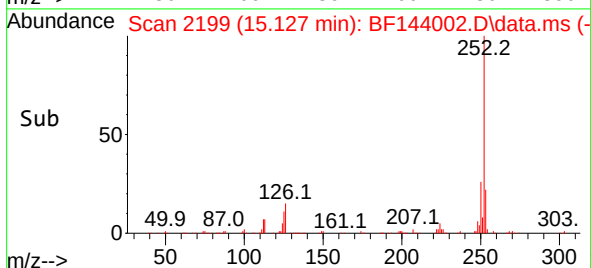
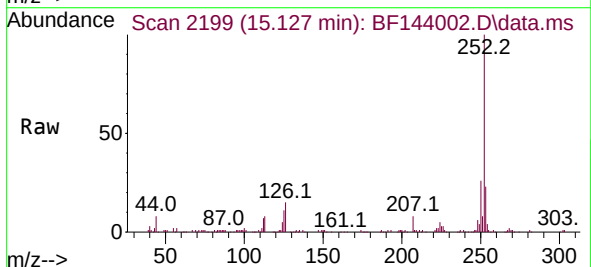
Manual Integrations
APPROVED

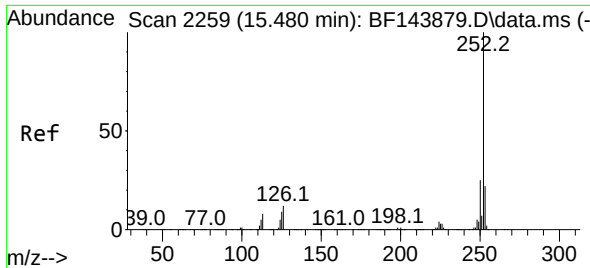
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#89
Benzo(k)fluoranthene
Concen: 3.042 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.017 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

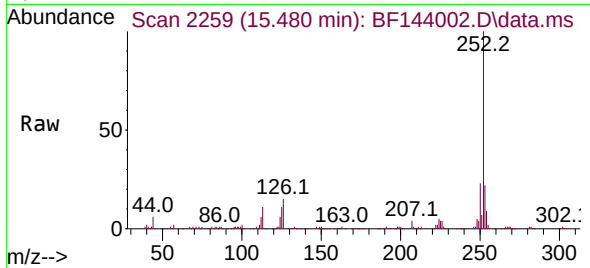
Tgt Ion:252 Resp: 48114
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 11.5 7.4 11.2#





#90
Benzo(a)pyrene
Concen: 8.640 ng
RT: 15.480 min Scan# 2259
Delta R.T. -0.006 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56

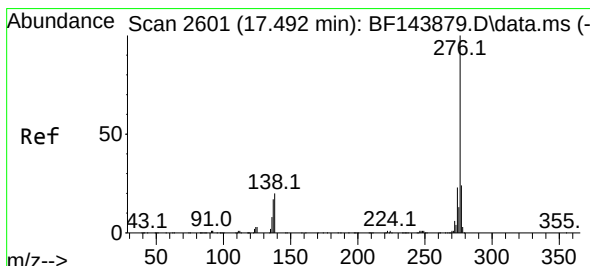
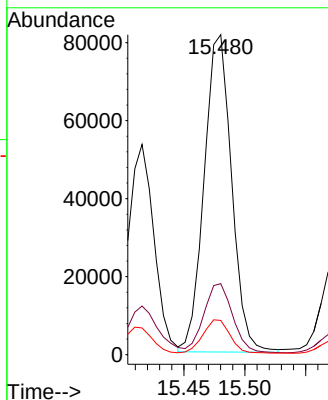
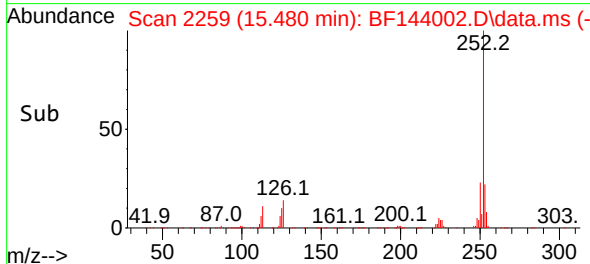
Instrument :
BNA_F
ClientSampleId :
TP-4-WC



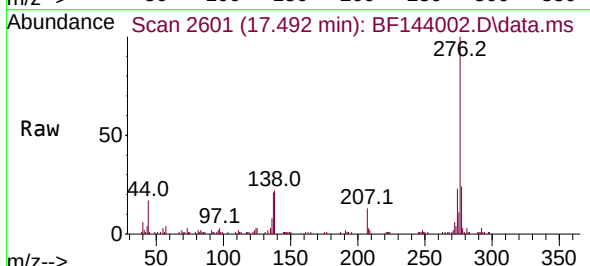
Tgt Ion:252 Resp: 128045
Ion Ratio Lower Upper
252 100
253 22.2 17.3 25.9
125 10.7 7.0 10.4

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#92
Benzo(g,h,i)perylene
Concen: 5.054 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.023 min
Lab File: BF144002.D
Acq: 20 Oct 2025 16:56



Tgt Ion:276 Resp: 74104
Ion Ratio Lower Upper
276 100
277 24.4 19.0 28.6
138 22.2 16.1 24.1

