

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102125\
 Data File : BF144028.D
 Acq On : 21 Oct 2025 22:53
 Operator : RC/JU
 Sample : Q3376-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PR132-S05-057082-20251016

Quant Time: Oct 22 11:13:39 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 10/22/2025
 Supervised By :Jagrut Upadhyay 10/22/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	103970	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	375202	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	176662	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	261482	20.000	ng	0.00
76) Chrysene-d12	14.057	240	242210	20.000	ng	-0.01
86) Perylene-d12	15.545	264	289481	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	529523	80.877	ng	0.00
7) Phenol-d6	6.504	99	614253	78.709	ng	-0.01
23) Nitrobenzene-d5	7.440	82	341161	55.243	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	120320	68.380	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	580664	52.154	ng	-0.01
79) Terphenyl-d14	12.998	244	495672	34.976	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	26275	2.073	ng	# 90
75) Fluoranthene	12.633	202	48437	3.699	ng	96
78) Pyrene	12.857	202	56984	2.822	ng	95
81) Benzo(a)anthracene	14.051	228	37815	2.386	ng	# 73
83) Chrysene	14.086	228	33377	2.275	ng	# 87
88) Benzo(b)fluoranthene	15.110	252	43966m	2.644	ng	
90) Benzo(a)pyrene	15.480	252	38339	2.659	ng	# 84

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

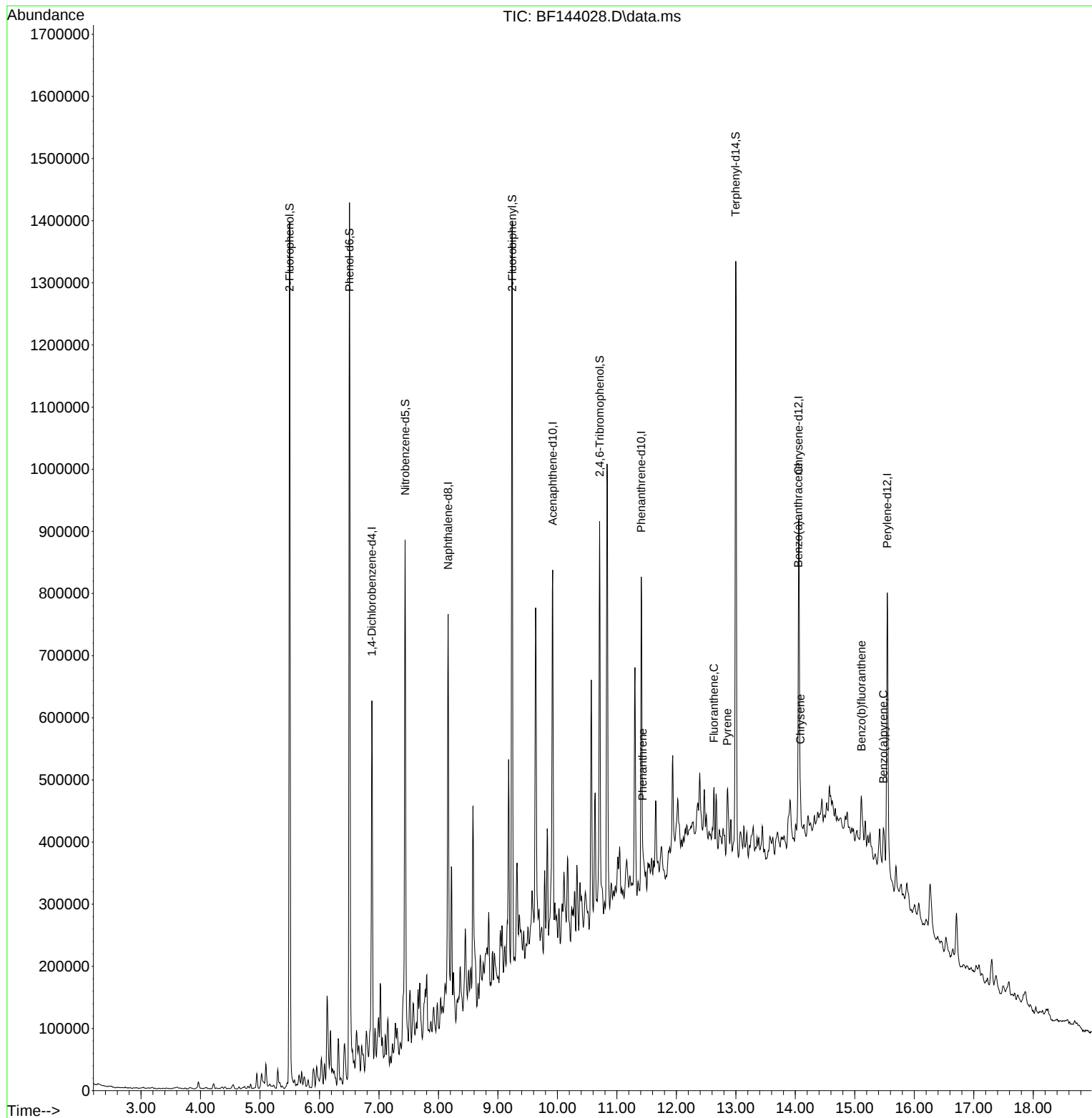
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102125\
Data File : BF144028.D
Acq On : 21 Oct 2025 22:53
Operator : RC/JU
Sample : Q3376-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

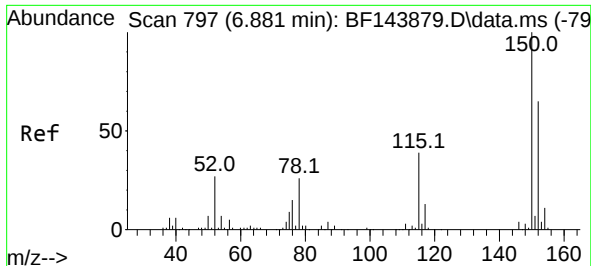
Instrument :
BNA_F
ClientSampleId :
PR132-S05-057082-20251016

Quant Time: Oct 22 11:13:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
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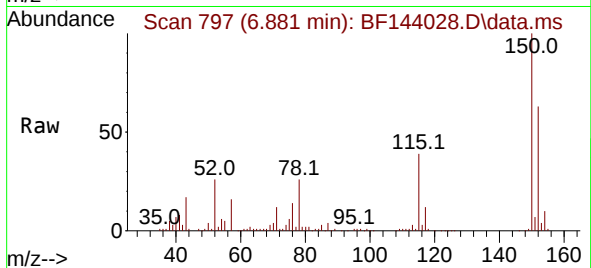
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

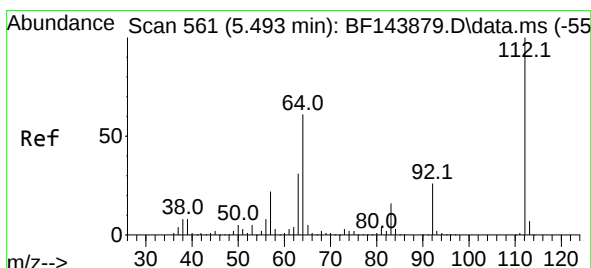
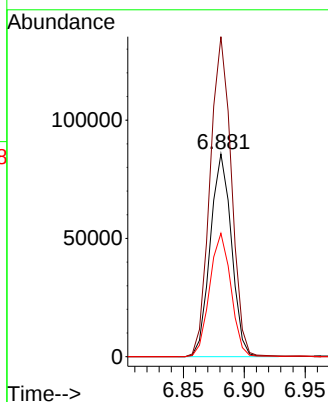
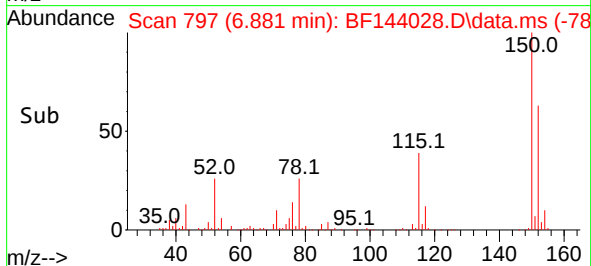
Instrument : BNA_F
ClientSampleId : PR132-S05-057082-20251016



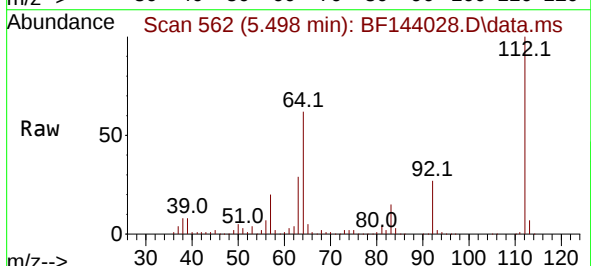
Tgt Ion:152 Resp: 103970
Ion Ratio Lower Upper
152 100
150 157.8 124.4 186.6
115 60.8 48.1 72.1

Manual Integrations
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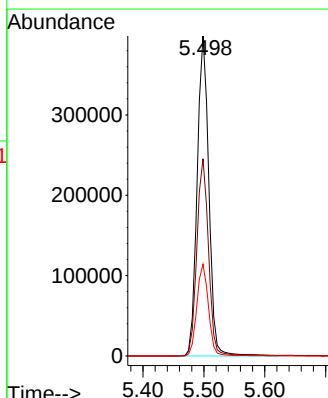
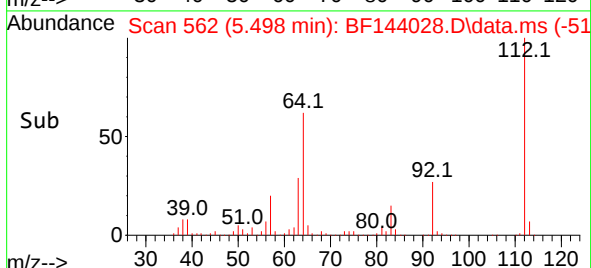
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025



#5
2-Fluorophenol
Concen: 80.877 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53



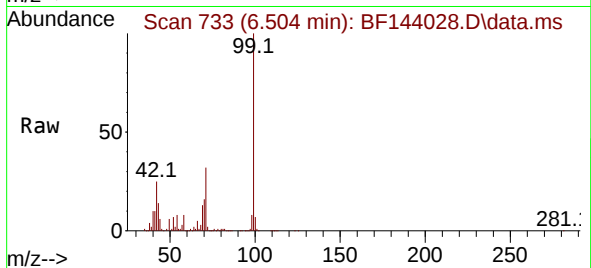
Tgt Ion:112 Resp: 529523
Ion Ratio Lower Upper
112 100
64 61.7 49.1 73.7
63 28.7 24.5 36.7





#7
Phenol-d6
Concen: 78.709 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

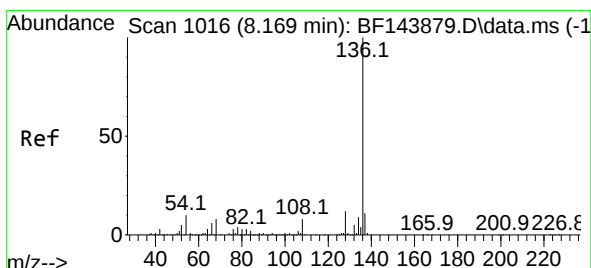
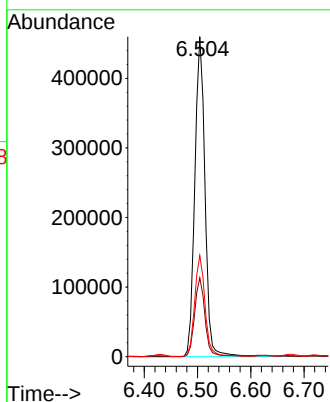
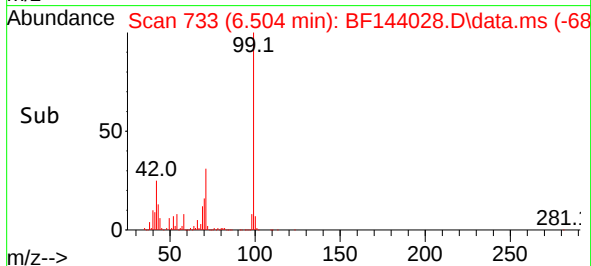
Instrument :
BNA_F
ClientSampleId :
PR132-S05-057082-20251016



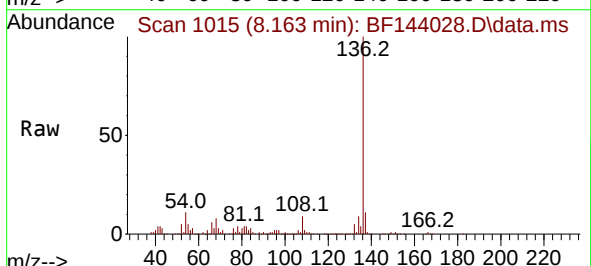
Tgt Ion: 99 Resp: 61425
Ion Ratio Lower Upper
99 100
42 24.7 21.0 31.4
71 31.6 27.8 41.8

Manual Integrations
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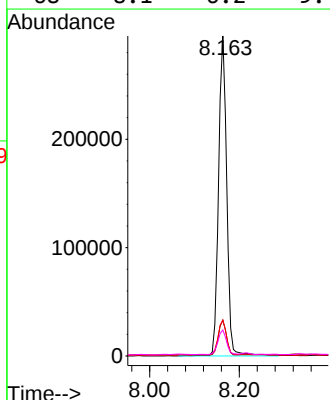
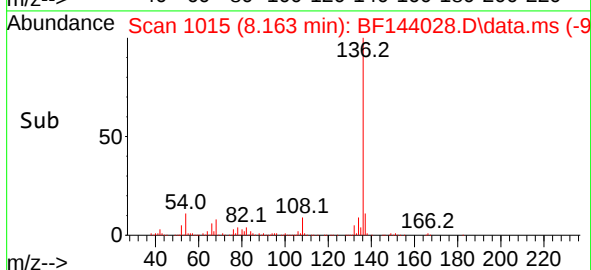
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025

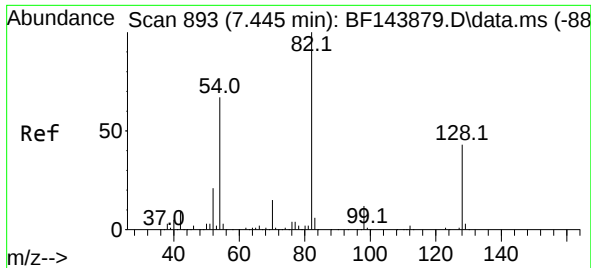


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53



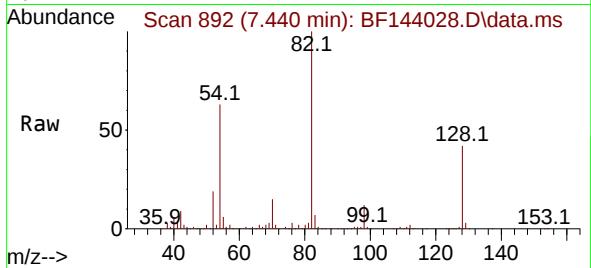
Tgt Ion:136 Resp: 375202
Ion Ratio Lower Upper
136 100
137 11.1 8.5 12.7
54 11.2 8.2 12.4
68 8.1 6.2 9.4





#23
Nitrobenzene-d5
Concen: 55.243 ng
RT: 7.440 min Scan# 893
Delta R.T. -0.017 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

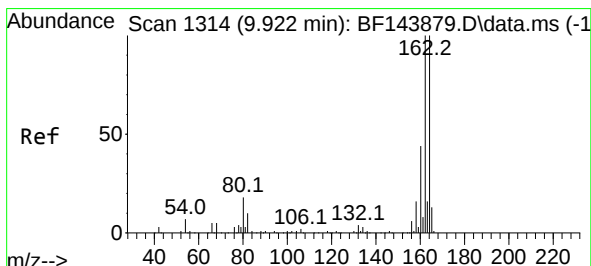
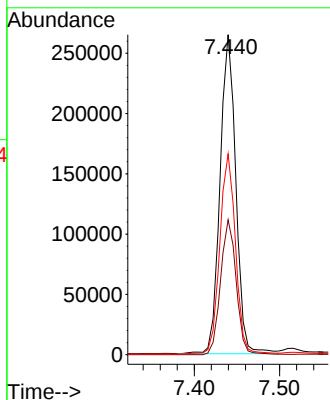
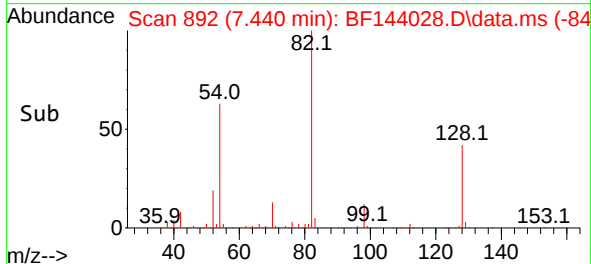
Instrument :
BNA_F
ClientSampleId :
PR132-S05-057082-20251016



Tgt Ion: 82 Resp: 34116
Ion Ratio Lower Upper
82 100
128 42.2 34.0 51.0
54 62.8 53.2 79.8

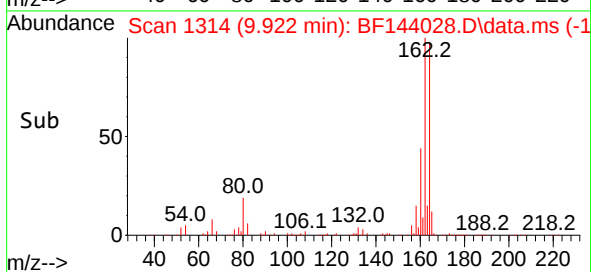
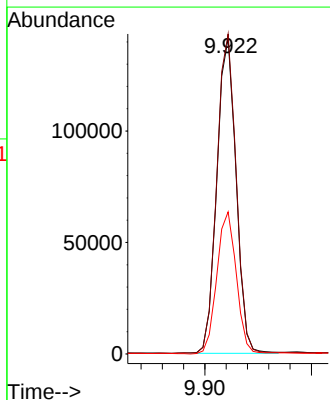
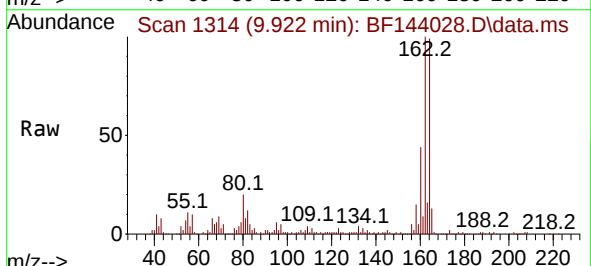
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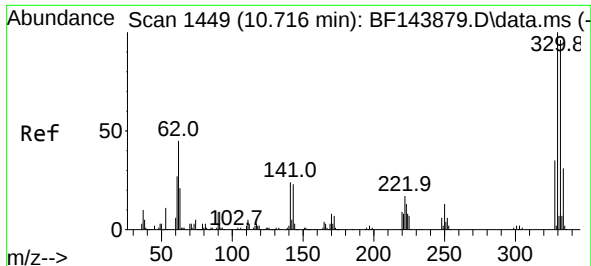
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

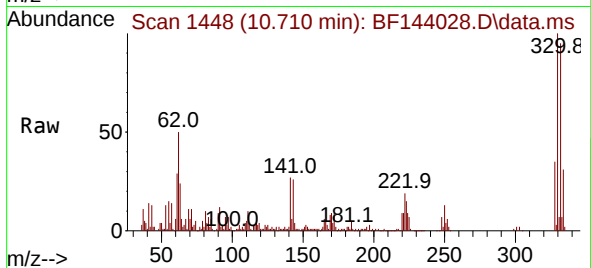
Tgt Ion:164 Resp: 176662
Ion Ratio Lower Upper
164 100
162 101.4 80.2 120.2
160 45.0 35.4 53.0





#42
2,4,6-Tribromophenol
Concen: 68.380 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

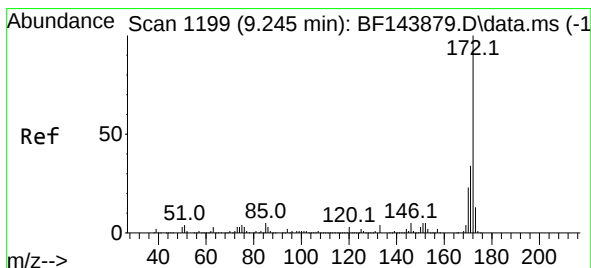
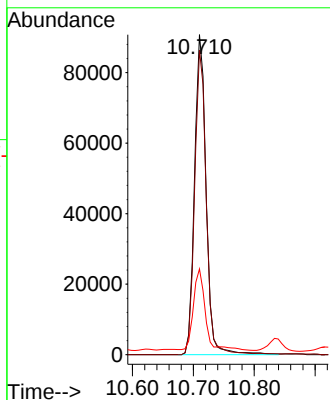
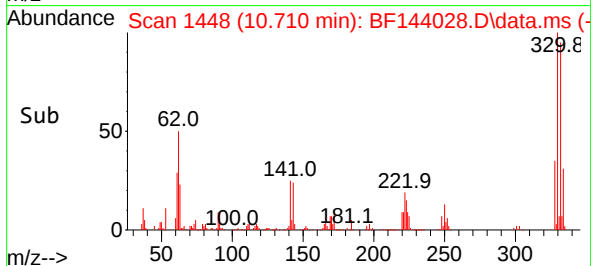
Instrument : BNA_F
ClientSampleId : PR132-S05-057082-20251016



Tgt Ion: 330 Resp: 120320
Ion Ratio Lower Upper
330 100
332 95.3 76.9 115.3
141 26.0 20.2 30.4

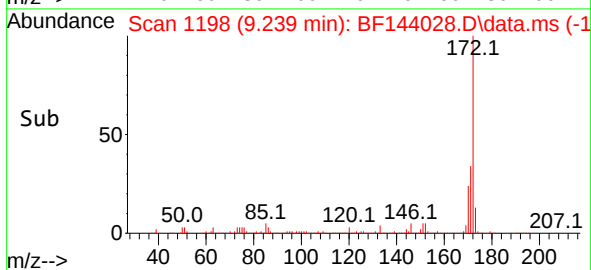
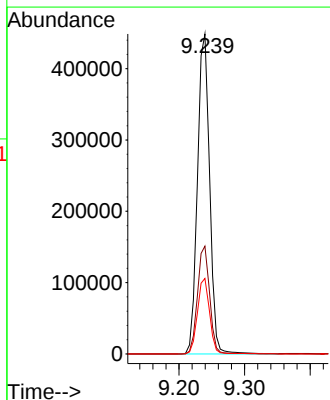
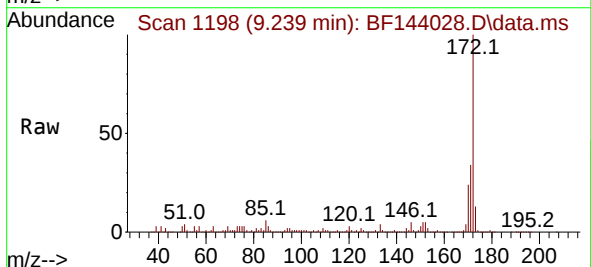
Manual Integrations
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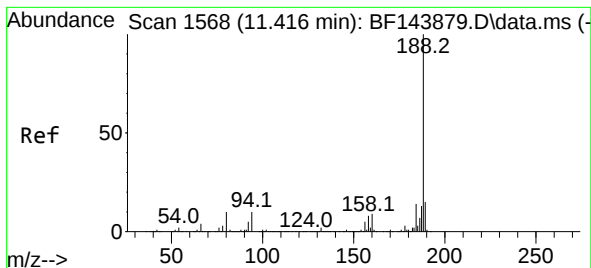
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025



#45
2-Fluorobiphenyl
Concen: 52.154 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

Tgt Ion: 172 Resp: 580664
Ion Ratio Lower Upper
172 100
171 33.7 27.4 41.0
170 23.6 18.6 28.0





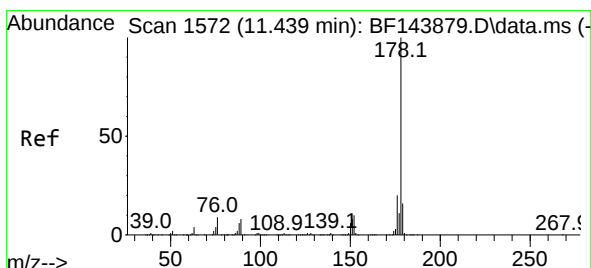
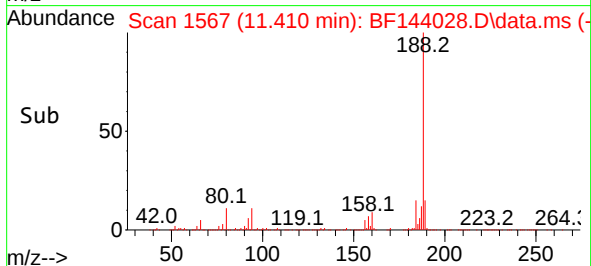
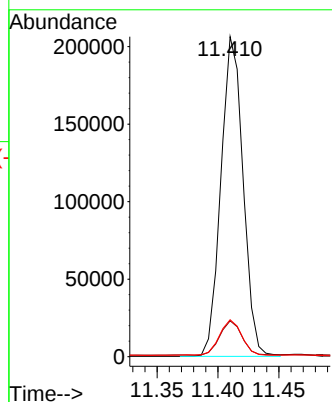
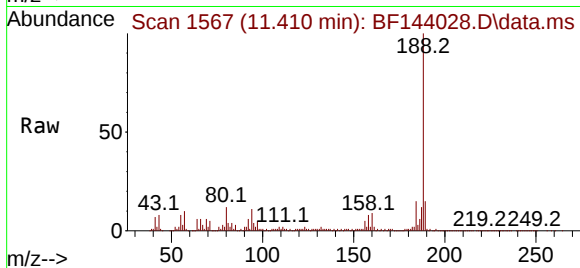
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

Instrument :
BNA_F
ClientSampleId :
PR132-S05-057082-20251016

Tgt Ion:188 Resp: 26148
Ion Ratio Lower Upper
188 100
94 11.2 7.8 11.6
80 11.5 7.9 11.9

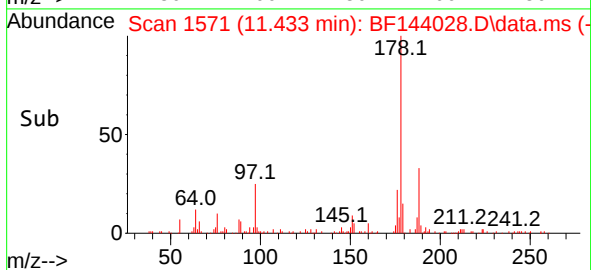
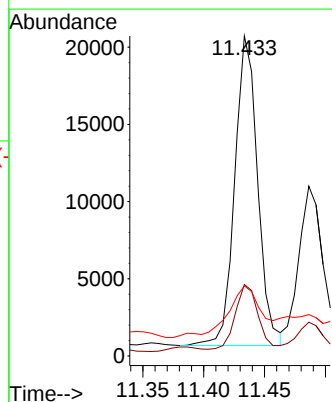
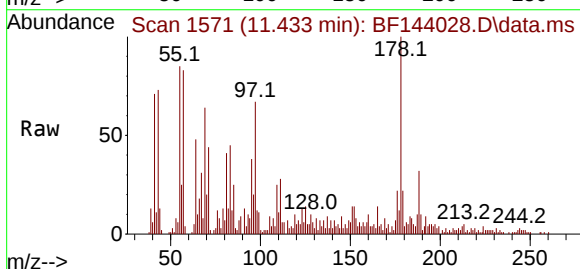
Manual Integrations
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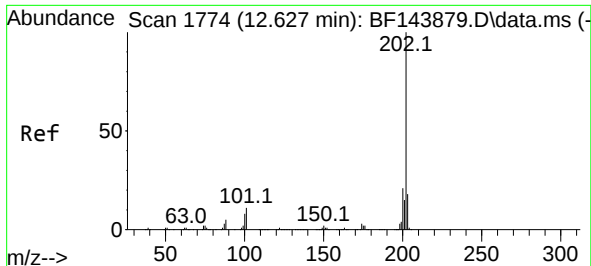
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025



#71
Phenanthrene
Concen: 2.073 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

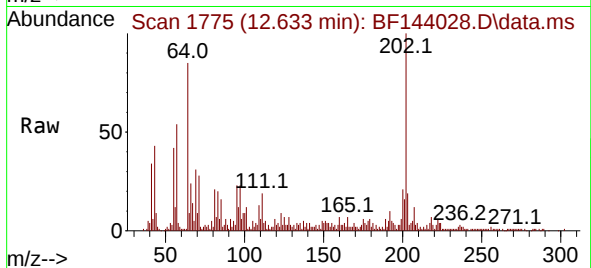
Tgt Ion:178 Resp: 26275
Ion Ratio Lower Upper
178 100
176 22.4 15.9 23.9
179 21.9 12.4 18.6#





#75
Fluoranthene
Concen: 3.699 ng
RT: 12.633 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

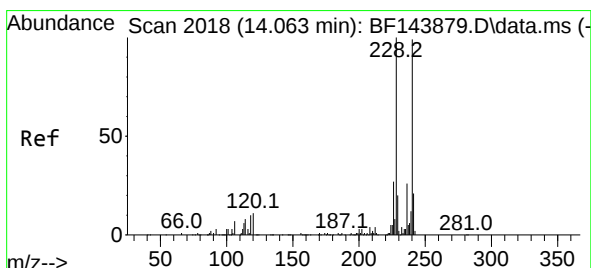
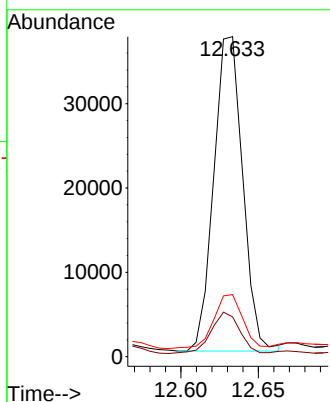
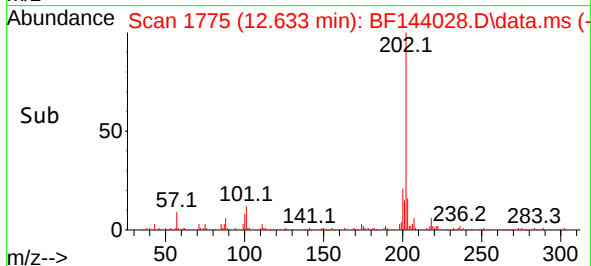
Instrument :
BNA_F
ClientSampleId :
PR132-S05-057082-20251016



Tgt Ion:202 Resp: 4843
Ion Ratio Lower Upper
202 100
101 12.5 0.0 30.7
203 19.4 0.0 37.8

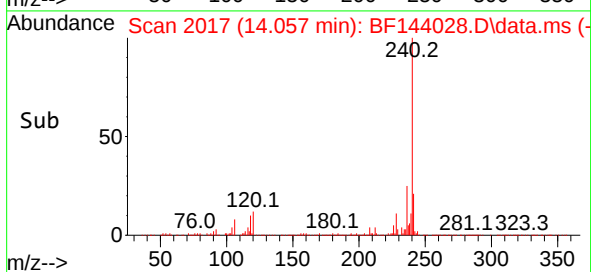
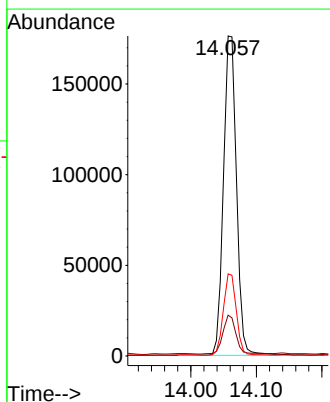
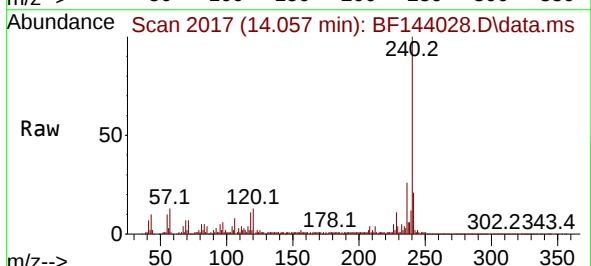
Manual Integrations
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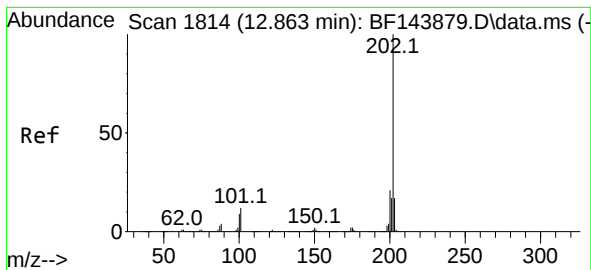
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.011 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

Tgt Ion:240 Resp: 242210
Ion Ratio Lower Upper
240 100
120 12.7 8.6 13.0
236 25.7 21.1 31.7





#78

Pyrene

Concen: 2.822 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.006 min

Lab File: BF144028.D

Acq: 21 Oct 2025 22:53

Instrument :

BNA_F

ClientSampleId :

PR132-S05-057082-20251016

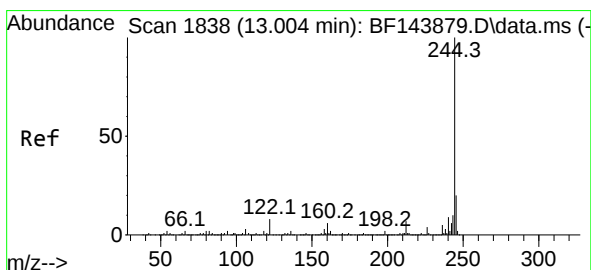
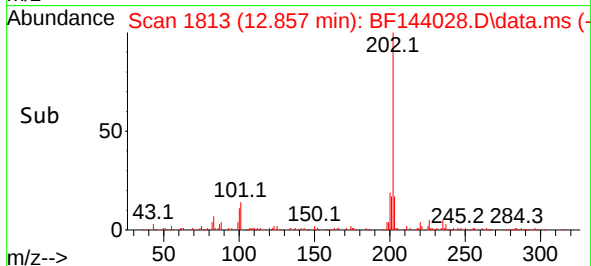
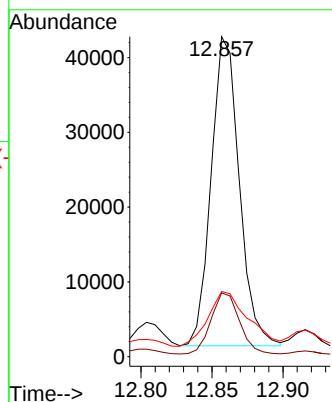
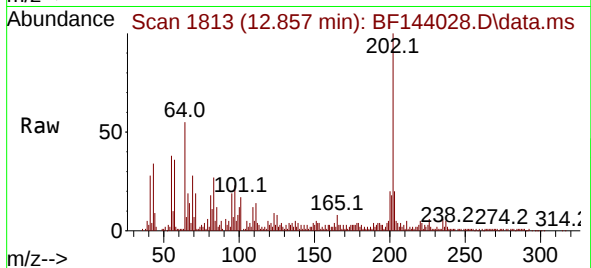
Tgt Ion:	202	Resp:	56984
Ion Ratio	Lower	Upper	
202	100		
200	19.9	17.0	25.6
203	20.4	13.8	20.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/22/2025

Supervised By :Jagrut Upadhyay 10/22/2025



#79

Terphenyl-d14

Concen: 34.976 ng

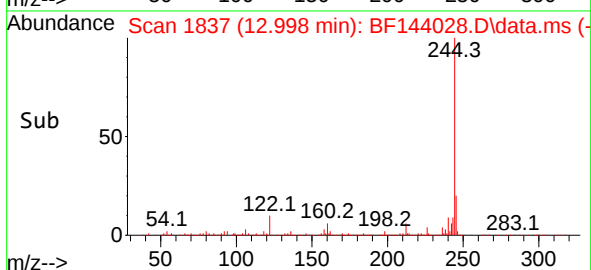
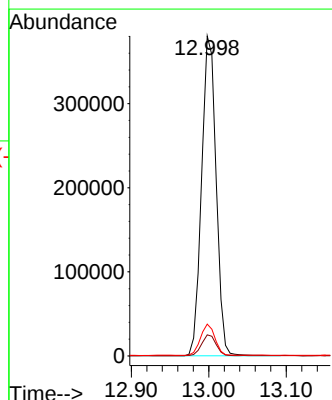
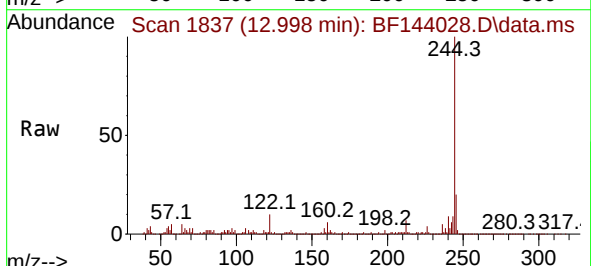
RT: 12.998 min Scan# 1837

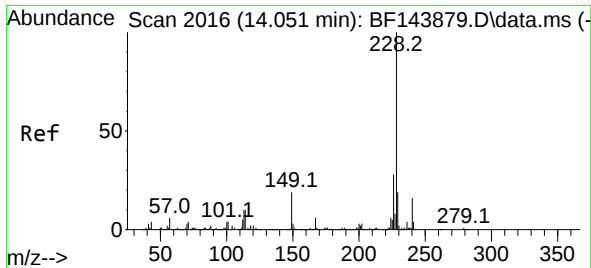
Delta R.T. -0.012 min

Lab File: BF144028.D

Acq: 21 Oct 2025 22:53

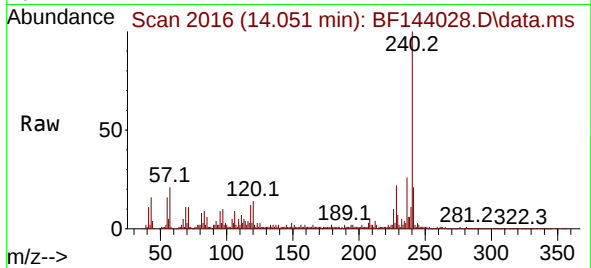
Tgt Ion:	244	Resp:	495672
Ion Ratio	Lower	Upper	
244	100		
212	6.6	5.4	8.0
122	10.0	6.4	9.6





#81
Benzo(a)anthracene
Concen: 2.386 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

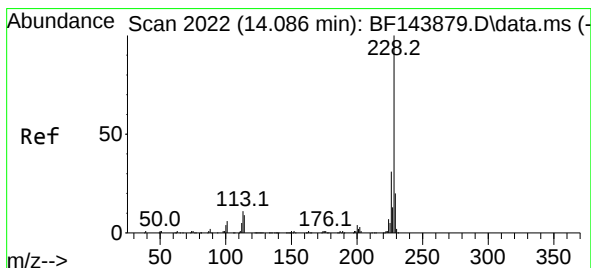
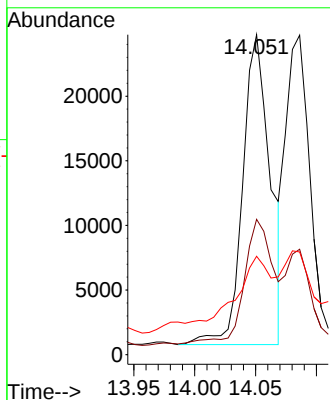
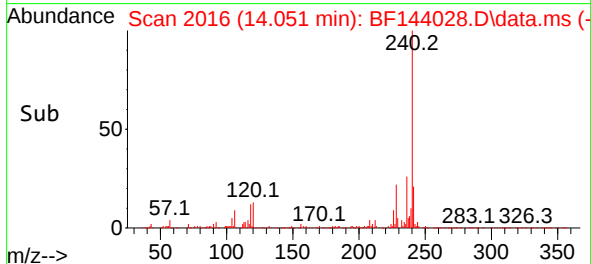
Instrument : BNA_F
ClientSampleId : PR132-S05-057082-20251016



Tgt Ion:228 Resp: 37815
Ion Ratio Lower Upper
228 100
226 42.3 22.2 33.2
229 30.8 15.6 23.4

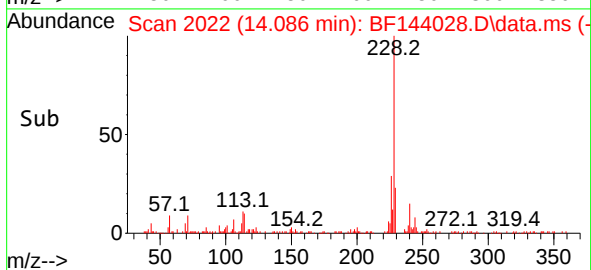
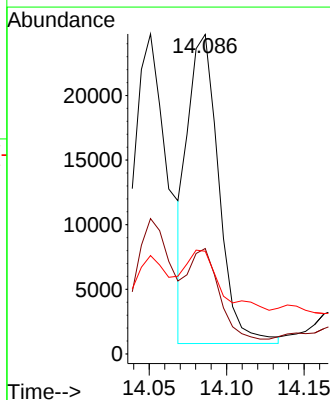
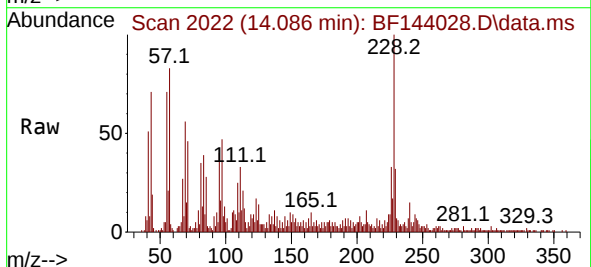
Manual Integrations
APPROVED

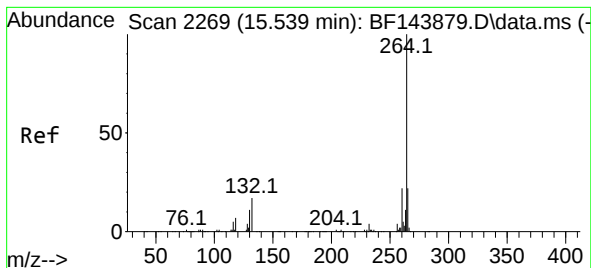
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025



#83
Chrysene
Concen: 2.275 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

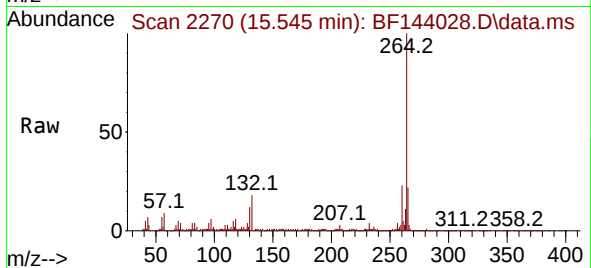
Tgt Ion:228 Resp: 33377
Ion Ratio Lower Upper
228 100
226 33.0 24.4 36.6
229 32.2 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2196
Delta R.T. 0.000 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

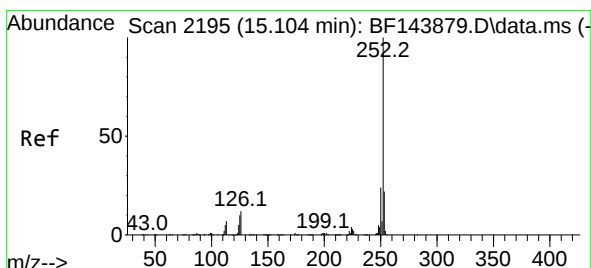
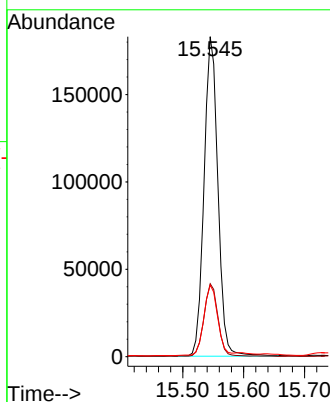
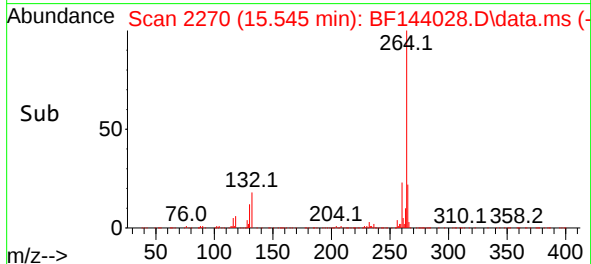
Instrument :
BNA_F
ClientSampleId :
PR132-S05-057082-20251016



Tgt Ion:264 Resp: 28948
Ion Ratio Lower Upper
264 100
260 22.8 17.8 26.8
265 22.4 17.5 26.3

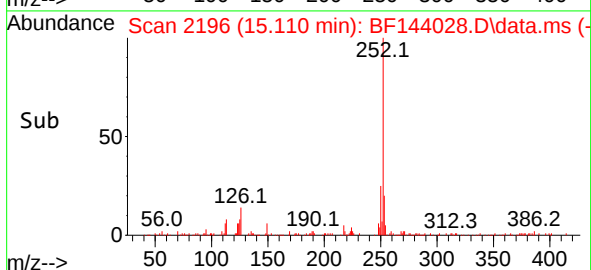
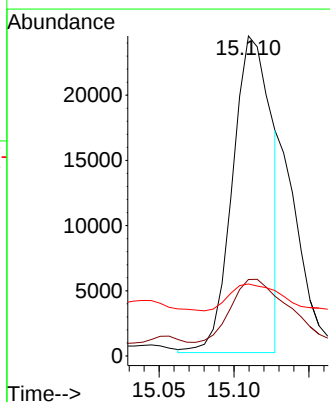
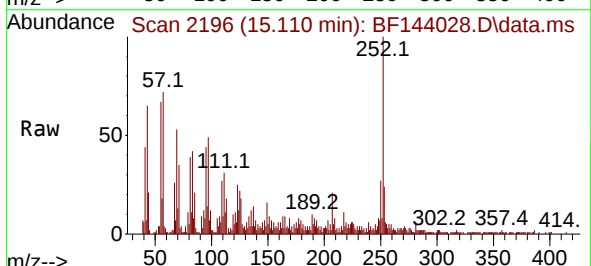
Manual Integrations
APPROVED

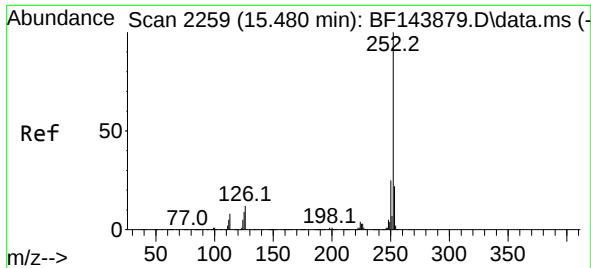
Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025



#88
Benzo(b)fluoranthene
Concen: 2.644 ng m
RT: 15.110 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

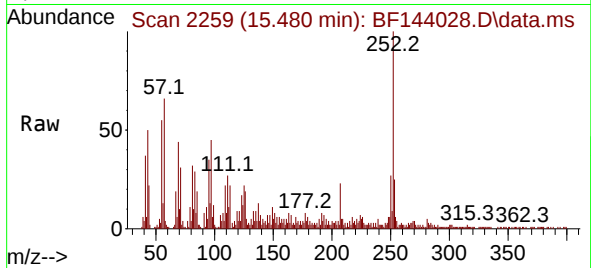
Tgt Ion:252 Resp: 43966
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.2
125 22.5 7.8 11.6#





#90
Benzo(a)pyrene
Concen: 2.659 ng
RT: 15.480 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF144028.D
Acq: 21 Oct 2025 22:53

Instrument :
BNA_F
ClientSampleId :
PR132-S05-057082-20251016



Tgt Ion:252 Resp: 38339

Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.3	25.9
125	22.3	7.0	10.4

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/22/2025
Supervised By :Jagrut Upadhyay 10/22/2025

