

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
 Data File : BF144093.D
 Acq On : 27 Oct 2025 20:02
 Operator : RC/JU
 Sample : Q3440-01 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 JB-2

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/28/2025
 Supervised By :mohammad ahmed 10/30/2025

Quant Time: Oct 28 10:42:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 17:30:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	57633	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	208710	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	106374	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	166607	20.000	ng	0.00
76) Chrysene-d12	14.057	240	154272	20.000	ng	0.00
86) Perylene-d12	15.551	264	150776	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	131033	35.970	ng	0.00
7) Phenol-d6	6.498	99	154625	38.434	ng	0.00
23) Nitrobenzene-d5	7.434	82	92590	24.305	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	43875	32.380	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	196832	26.039	ng	0.00
79) Terphenyl-d14	12.998	244	193135	21.886	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	124130	14.998	ng	100
72) Anthracene	11.486	178	37153	4.346	ng	97
75) Fluoranthene	12.627	202	240505	26.303	ng	99
78) Pyrene	12.857	202	231343	20.858	ng	98
81) Benzo(a)anthracene	14.051	228	158642	15.216	ng	92
83) Chrysene	14.086	228	126427	12.922	ng	96
87) Indeno(1,2,3-cd)pyrene	17.051	276	54243	5.240	ng	99
88) Benzo(b)fluoranthene	15.116	252	174397m	20.460	ng	
89) Benzo(k)fluoranthene	15.127	252	67630m	8.600	ng	
90) Benzo(a)pyrene	15.486	252	112903	14.764	ng	# 93
92) Benzo(g,h,i)perylene	17.504	276	54289	6.590	ng	97

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

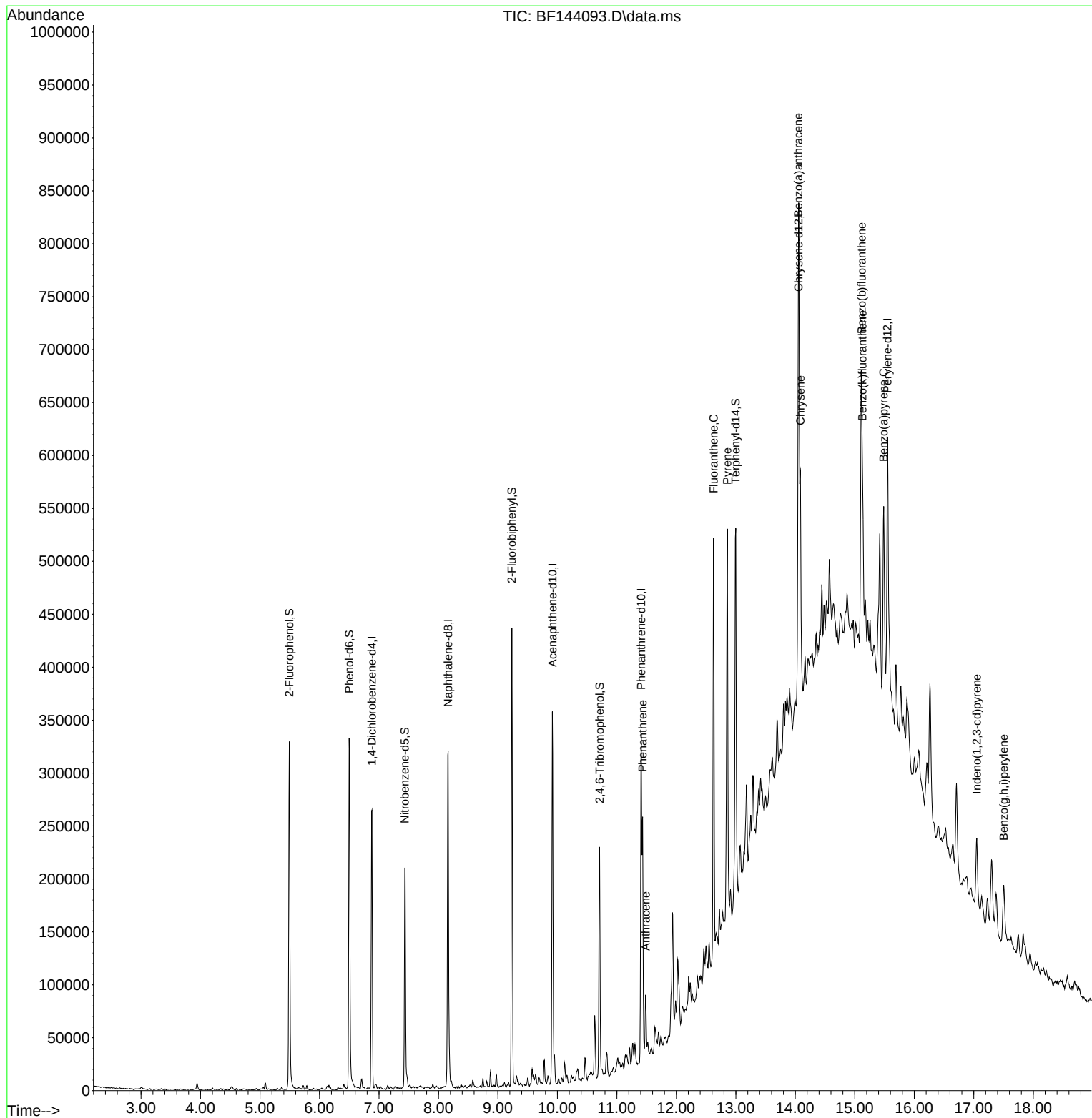
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
Data File : BF144093.D
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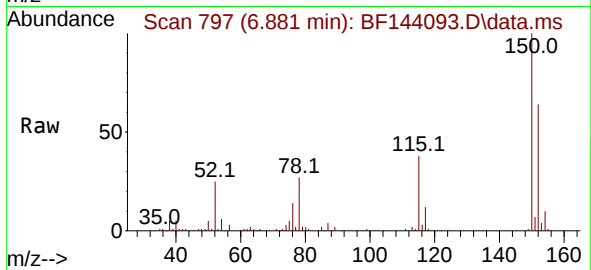
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02

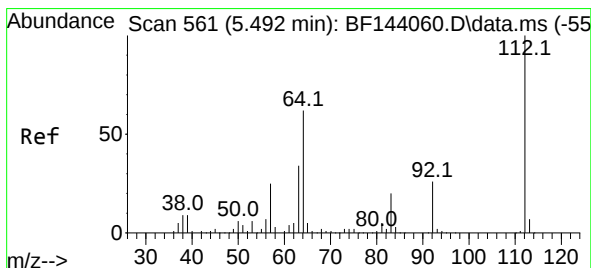
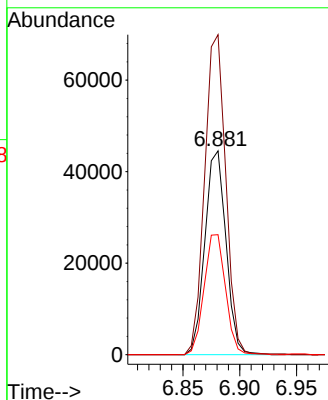
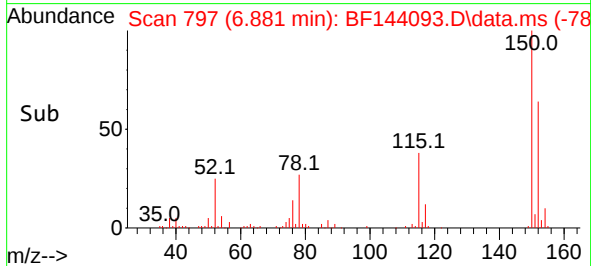
Instrument :
BNA_F
ClientSampleId :
JB-2



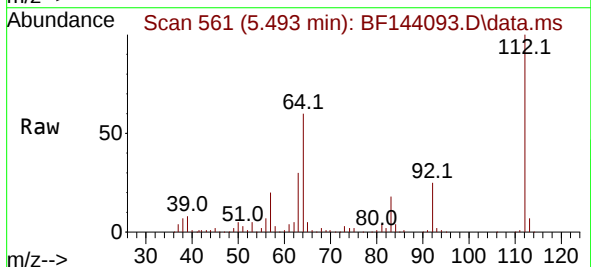
Tgt Ion:152 Resp: 5763
Ion Ratio Lower Upper
152 100
150 156.9 124.4 186.6
115 58.9 49.4 74.0

Manual Integrations
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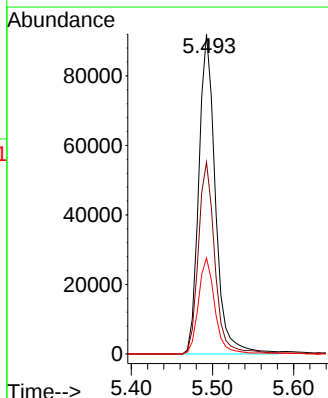
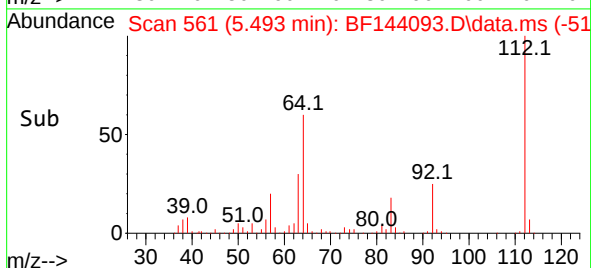
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#5
2-Fluorophenol
Concen: 35.970 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02



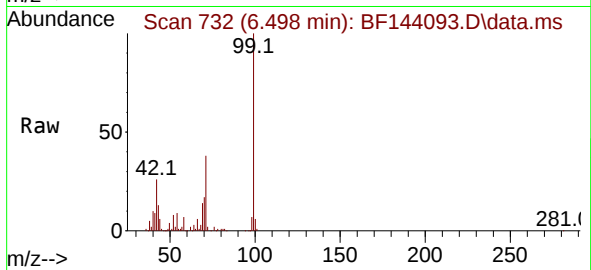
Tgt Ion:112 Resp: 131033
Ion Ratio Lower Upper
112 100
64 59.9 49.8 74.8
63 30.0 27.4 41.2





#7
Phenol-d6
Concen: 38.434 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02

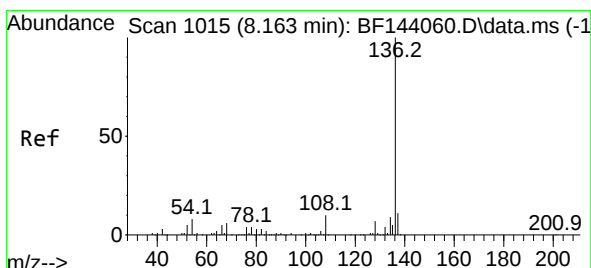
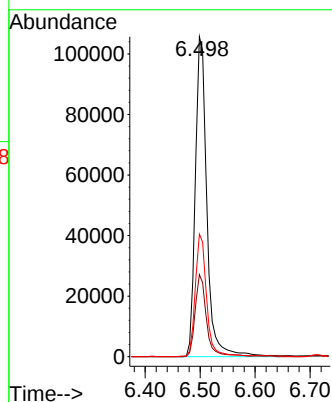
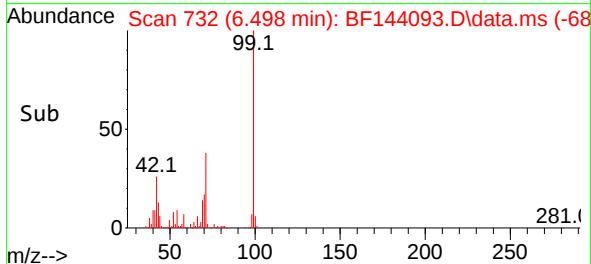
Instrument :
BNA_F
ClientSampleId :
JB-2



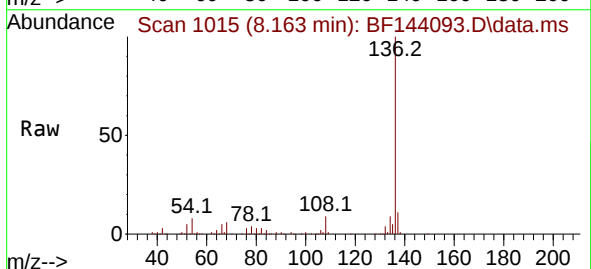
Tgt Ion: 99 Resp: 15462
Ion Ratio Lower Upper
99 100
42 25.7 23.9 35.9
71 38.3 34.4 51.6

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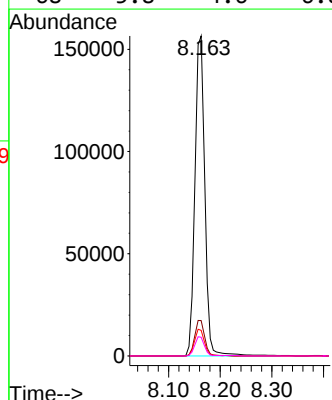
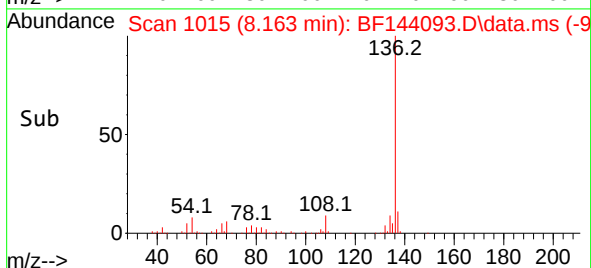
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

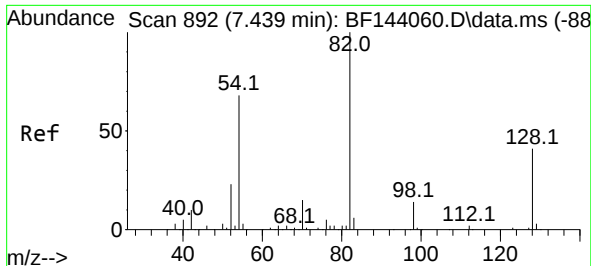


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02



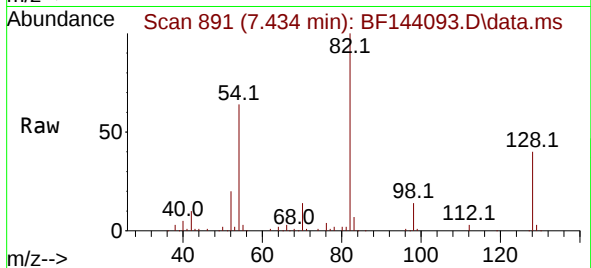
Tgt Ion:136 Resp: 208710
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 8.0 6.6 9.8
68 5.8 4.6 6.8





#23
Nitrobenzene-d5
Concen: 24.305 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.006 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02

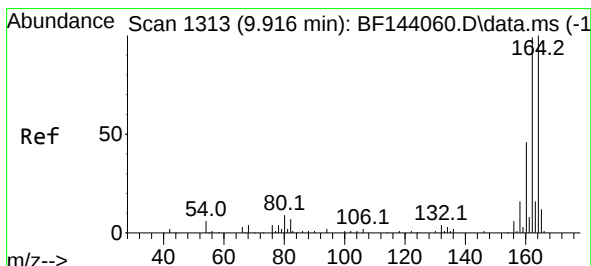
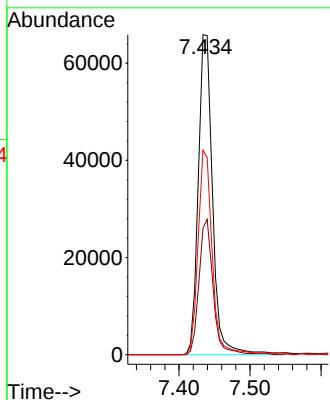
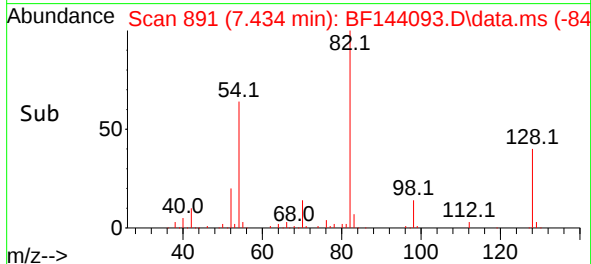
Instrument :
BNA_F
ClientSampleId :
JB-2



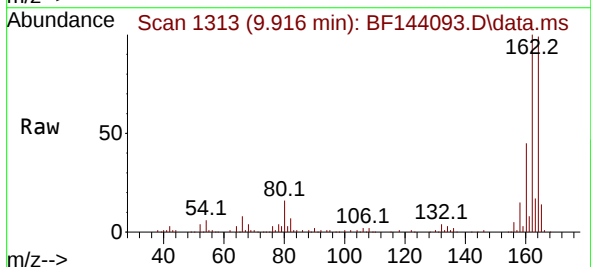
Tgt Ion: 82 Resp: 92590
Ion Ratio Lower Upper
82 100
128 39.6 32.4 48.6
54 63.9 54.0 81.0

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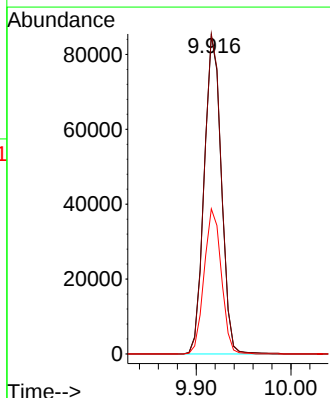
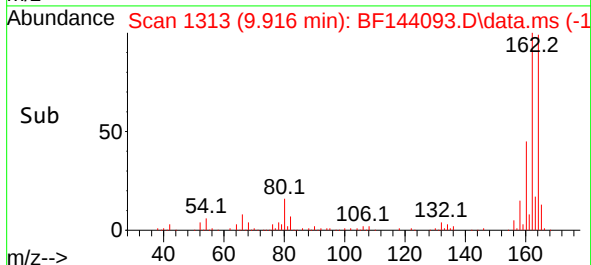
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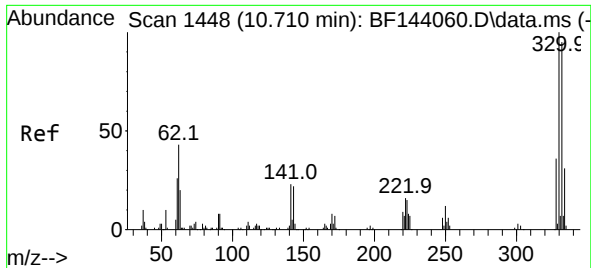


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02



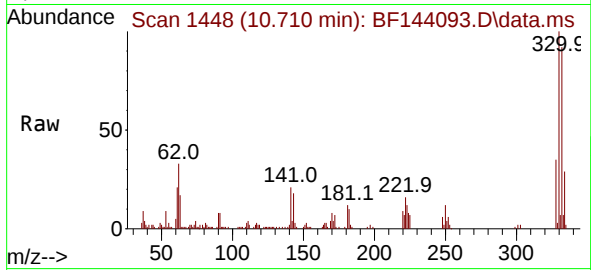
Tgt Ion:164 Resp: 106374
Ion Ratio Lower Upper
164 100
162 100.6 79.4 119.2
160 45.6 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 32.380 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02

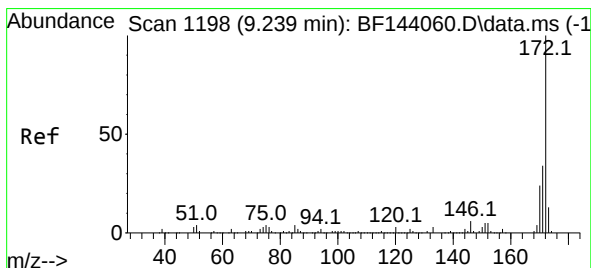
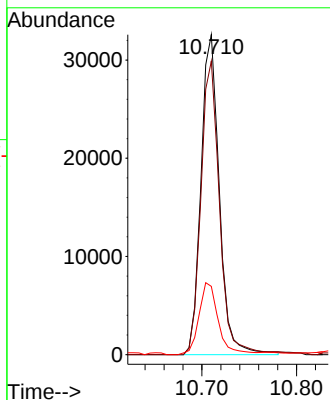
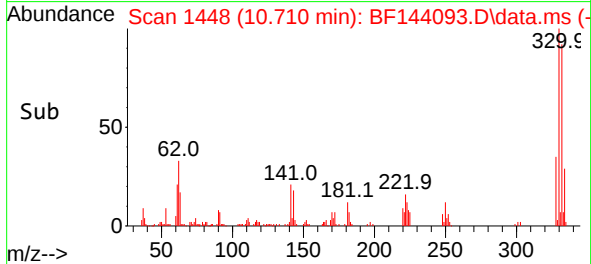
Instrument :
BNA_F
ClientSampleId :
JB-2



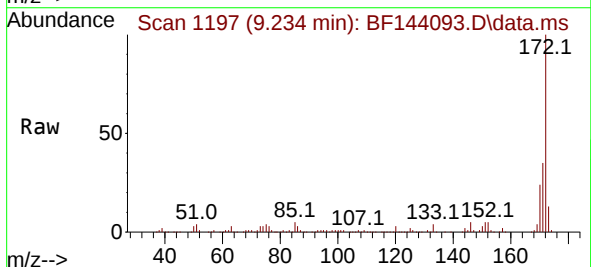
Tgt Ion:330 Resp: 43875
Ion Ratio Lower Upper
330 100
332 93.8 77.0 115.6
141 23.8 19.4 29.0

Manual Integrations
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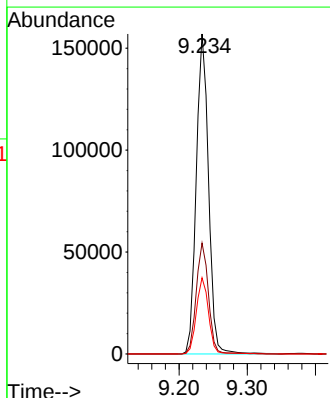
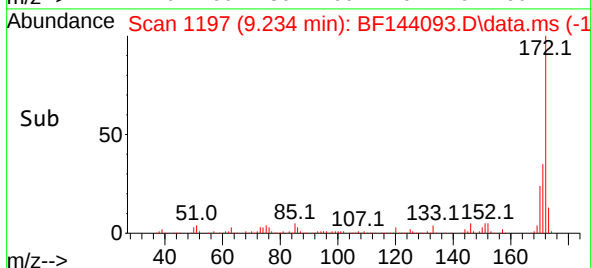
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025

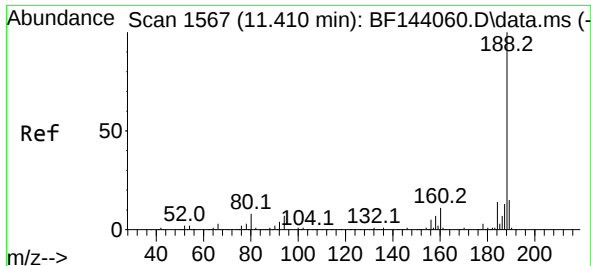


#45
2-Fluorobiphenyl
Concen: 26.039 ng
RT: 9.234 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02



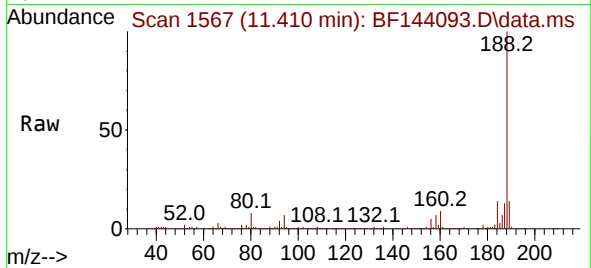
Tgt Ion:172 Resp: 196832
Ion Ratio Lower Upper
172 100
171 34.7 27.5 41.3
170 23.8 19.0 28.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. 0.000 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02

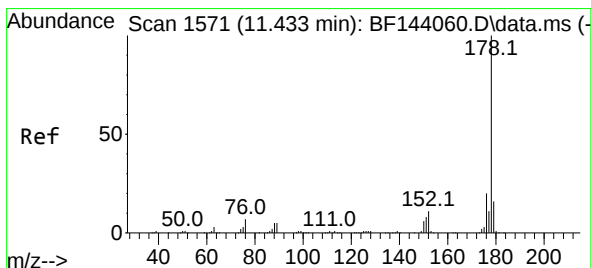
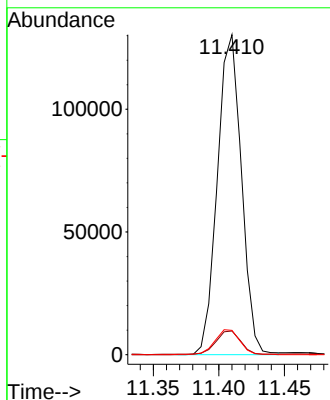
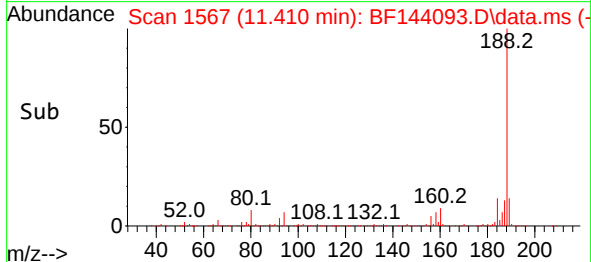
Instrument :
BNA_F
ClientSampleId :
JB-2



Tgt Ion:188 Resp: 16660
Ion Ratio Lower Upper
188 100
94 7.4 5.4 8.0
80 7.6 6.0 9.0

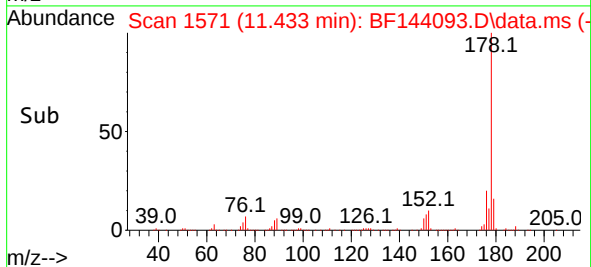
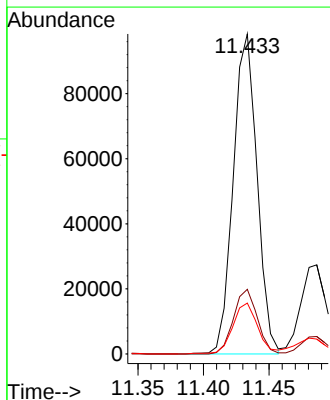
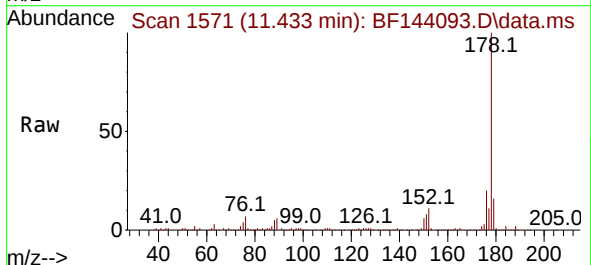
Manual Integrations
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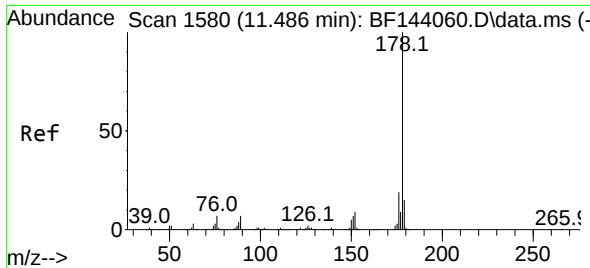
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#71
Phenanthrene
Concen: 14.998 ng
RT: 11.433 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02

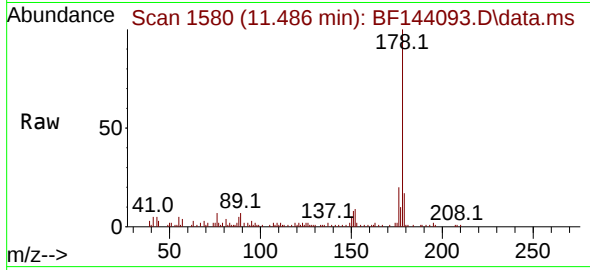
Tgt Ion:178 Resp: 124130
Ion Ratio Lower Upper
178 100
176 20.2 16.3 24.5
179 15.9 12.6 18.8





#72
 Anthracene
 Concen: 4.346 ng
 RT: 11.486 min Scan# 11486
 Delta R.T. 0.000 min
 Lab File: BF144093.D
 Acq: 27 Oct 2025 20:02

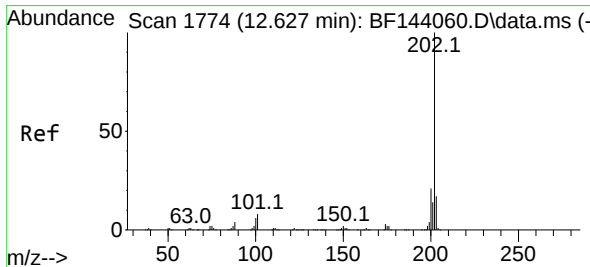
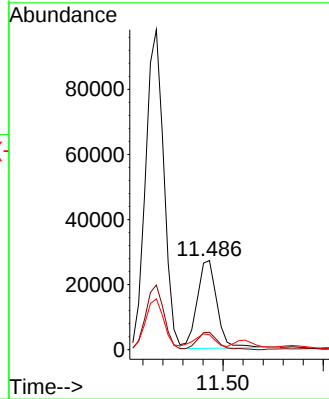
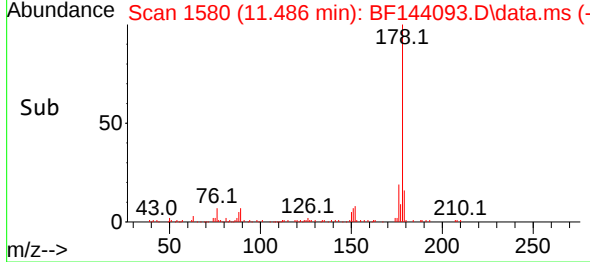
Instrument :
 BNA_F
 ClientSampleId :
 JB-2



Tgt Ion:178 Resp: 3715
 Ion Ratio Lower Upper
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 176 19.6 15.0 22.4
 179 16.6 11.8 17.6

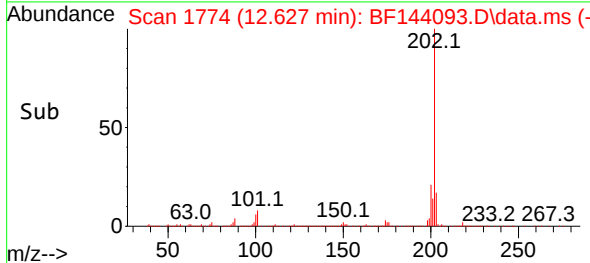
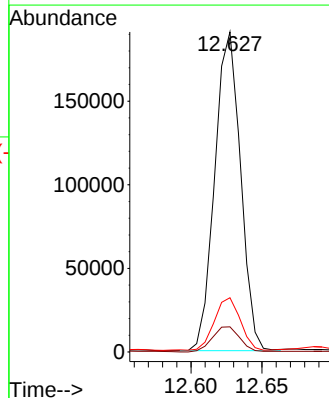
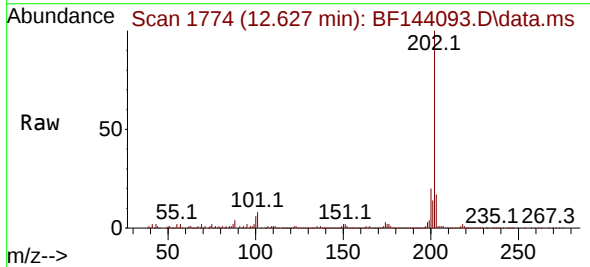
Manual Integrations
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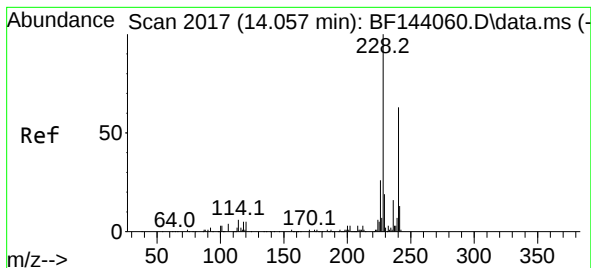
Reviewed By :Rahul Chavli 10/28/2025
 Supervised By :mohammad ahmed 10/30/2025



#75
 Fluoranthene
 Concen: 26.303 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. 0.000 min
 Lab File: BF144093.D
 Acq: 27 Oct 2025 20:02

Tgt Ion:202 Resp: 240505
 Ion Ratio Lower Upper
 202 100
 101 7.9 0.0 27.7
 203 17.0 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BF144093.D

Acq: 27 Oct 2025 20:02

Instrument :

BNA_F

ClientSampleId :

JB-2

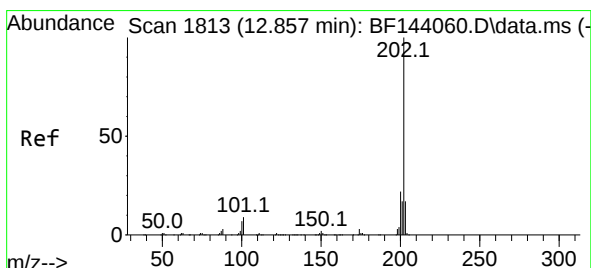
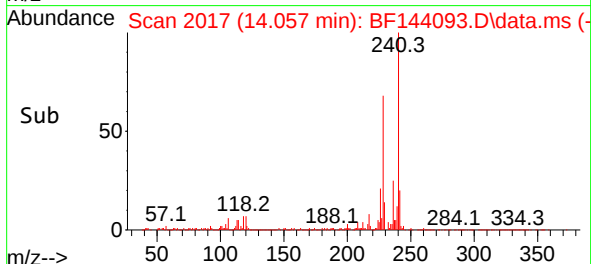
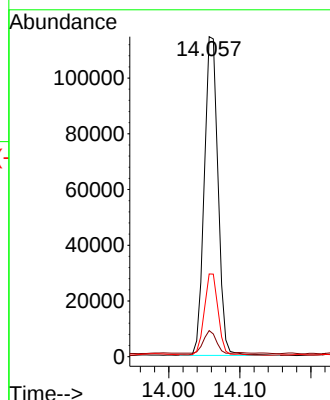
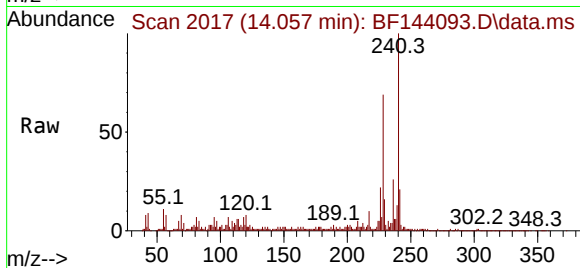
Tgt Ion:240 Resp: 154272
 Ion Ratio Lower Upper
 240 100
 120 8.1 6.5 9.7
 236 25.9 20.1 30.1

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025

Supervised By :mohammad ahmed 10/30/2025



#78

Pyrene

Concen: 20.858 ng

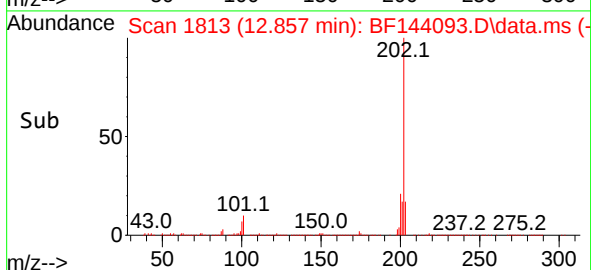
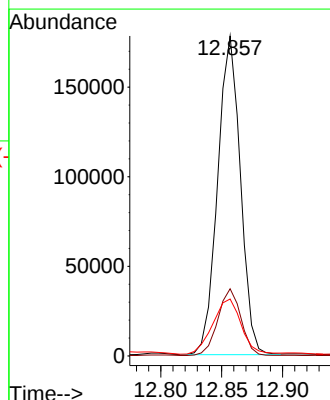
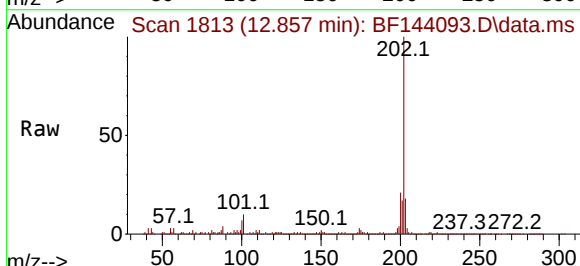
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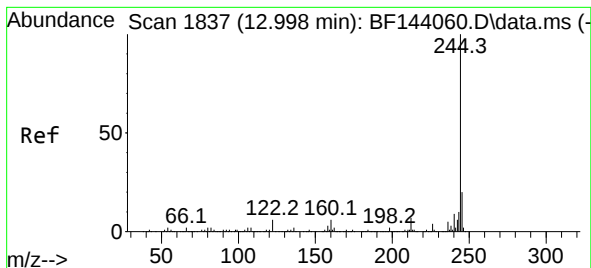
Delta R.T. 0.000 min

Lab File: BF144093.D

Acq: 27 Oct 2025 20:02

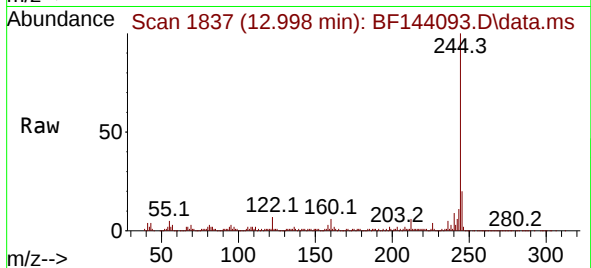
Tgt Ion:202 Resp: 231343
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.2 25.8
 203 17.8 13.5 20.3





#79
 Terphenyl-d14
 Concen: 21.886 ng
 RT: 12.998 min Scan# 1837
 Delta R.T. 0.000 min
 Lab File: BF144093.D
 Acq: 27 Oct 2025 20:02

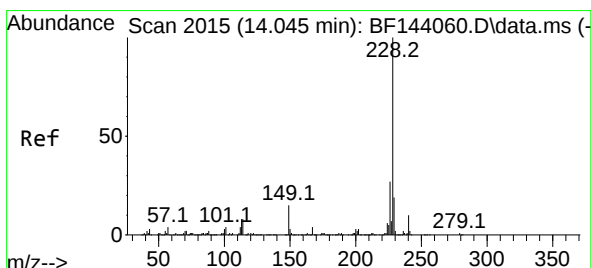
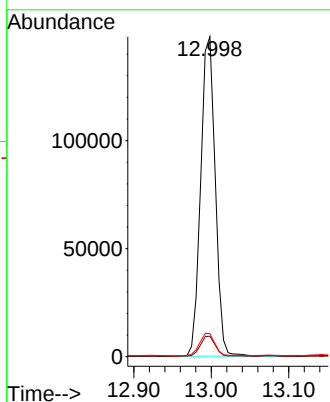
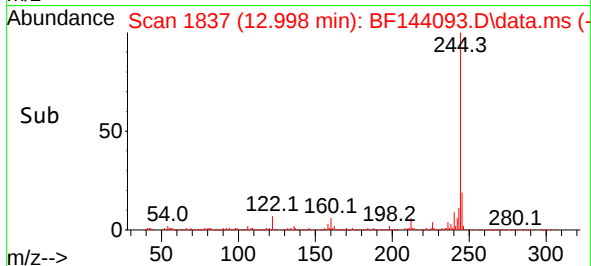
Instrument :
 BNA_F
 ClientSampleId :
 JB-2



Tgt Ion:244 Resp: 193135
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.8 8.6
 122 7.2 4.9 7.3

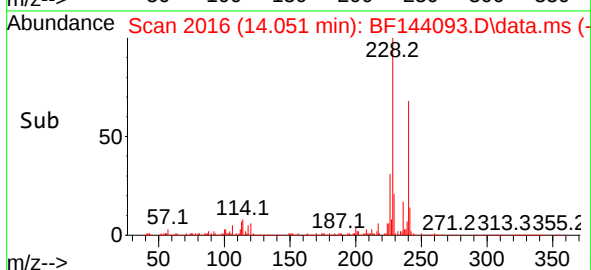
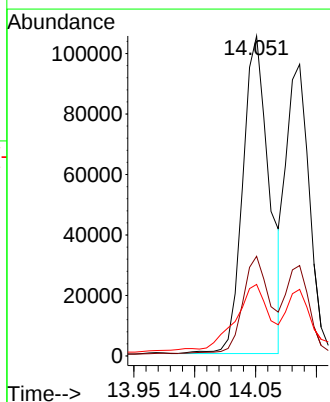
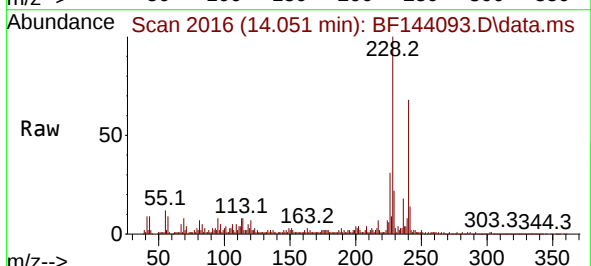
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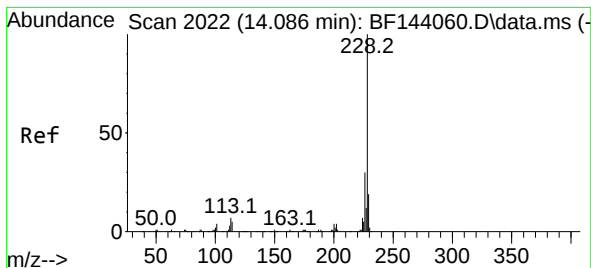
Reviewed By :Rahul Chavli 10/28/2025
 Supervised By :mohammad ahmed 10/30/2025



#81
 Benzo(a)anthracene
 Concen: 15.216 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. 0.006 min
 Lab File: BF144093.D
 Acq: 27 Oct 2025 20:02

Tgt Ion:228 Resp: 158642
 Ion Ratio Lower Upper
 228 100
 226 31.2 21.4 32.2
 229 22.4 15.3 22.9





#83

Chrysene

Concen: 12.922 ng

RT: 14.086 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF144093.D

Acq: 27 Oct 2025 20:02

Instrument :

BNF

ClientSampleId :

JB-2

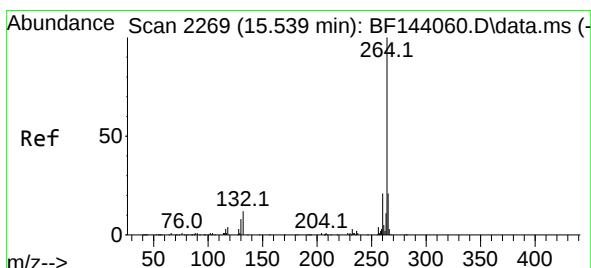
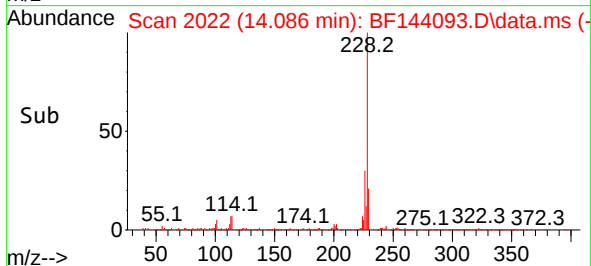
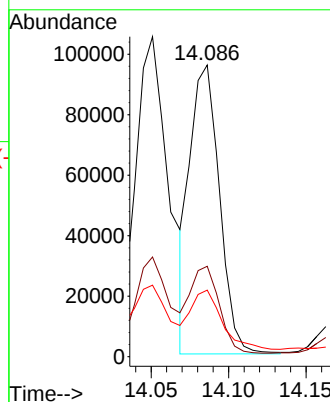
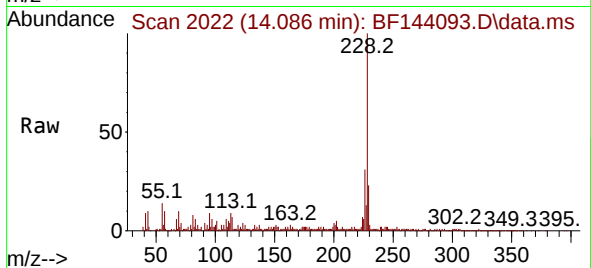
Tgt Ion:	228	Resp:	12642
Ion Ratio	Lower	Upper	
228	100		
226	31.0	23.8	35.6
229	22.8	15.6	23.4

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025

Supervised By :mohammad ahmed 10/30/2025



#86

Perylene-d12

Concen: 20.000 ng

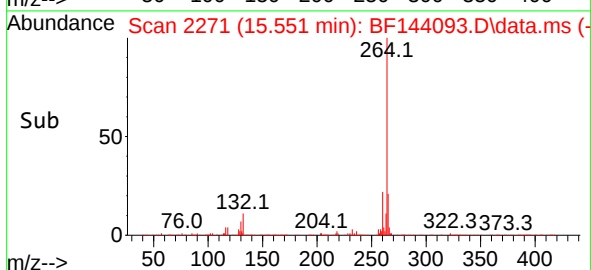
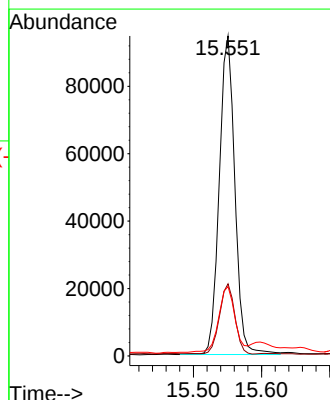
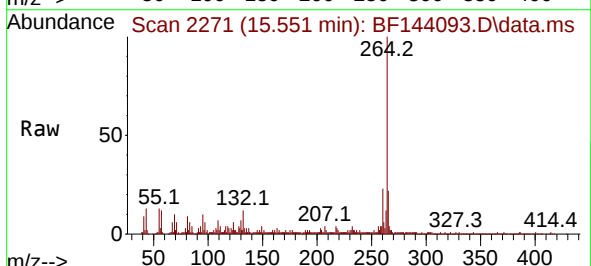
RT: 15.551 min Scan# 2271

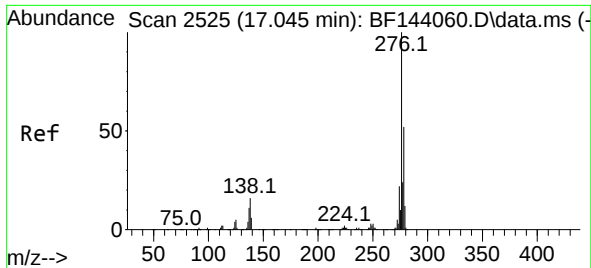
Delta R.T. 0.012 min

Lab File: BF144093.D

Acq: 27 Oct 2025 20:02

Tgt Ion:	264	Resp:	150776
Ion Ratio	Lower	Upper	
264	100		
260	22.6	17.0	25.4
265	21.7	16.6	24.8





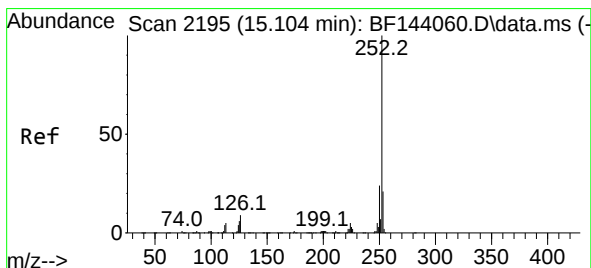
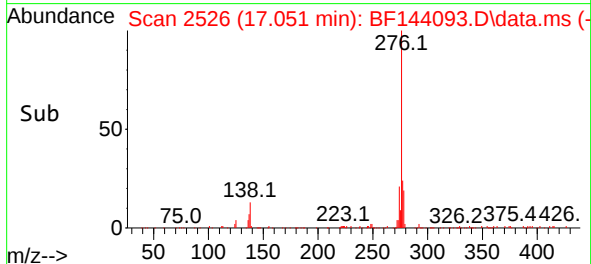
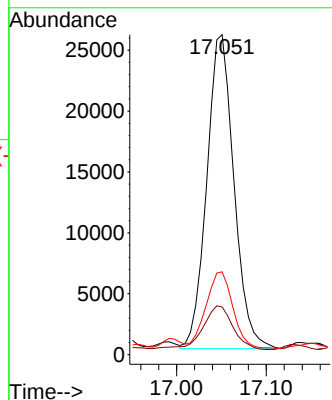
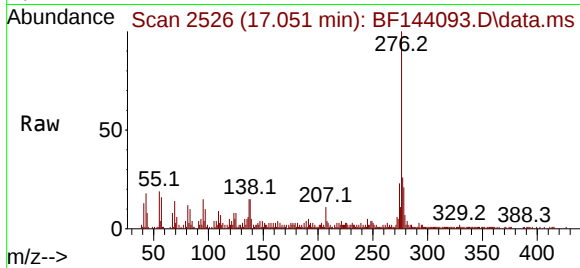
#87
Indeno(1,2,3-cd)pyrene
Concen: 5.240 ng
RT: 17.051 min Scan# 2197
Delta R.T. 0.006 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02

Instrument :
BNA_F
ClientSampleId :
JB-2

Tgt Ion: 276 Resp: 5424
Ion Ratio Lower Upper
276 100
138 15.5 13.0 19.6
277 23.9 19.4 29.0

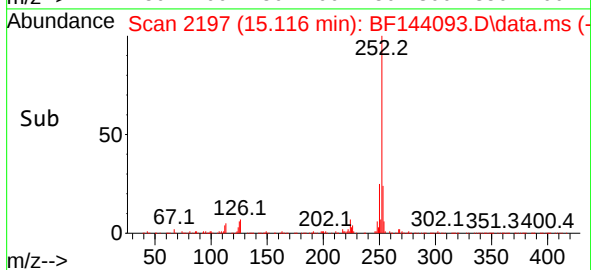
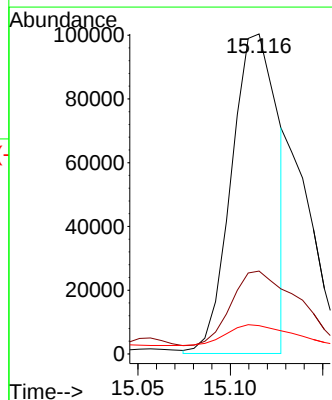
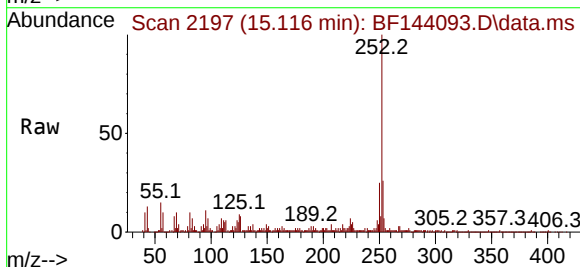
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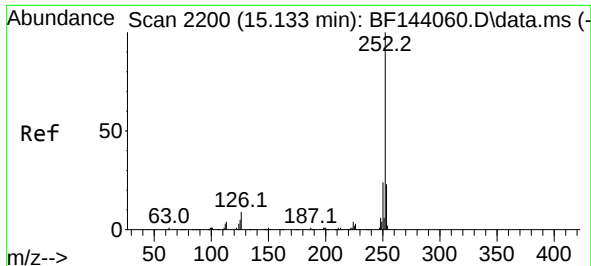
Reviewed By :Rahul Chavli 10/28/2025
Supervised By :mohammad ahmed 10/30/2025



#88
Benzo(b)fluoranthene
Concen: 20.460 ng m
RT: 15.116 min Scan# 2197
Delta R.T. 0.012 min
Lab File: BF144093.D
Acq: 27 Oct 2025 20:02

Tgt Ion: 252 Resp: 174397
Ion Ratio Lower Upper
252 100
253 25.9 17.2 25.8#
125 8.9 5.0 7.6#





#89

Benzo(k)fluoranthene

Concen: 8.600 ng m

RT: 15.127 min Scan# 2199

Delta R.T. -0.006 min

Lab File: BF144093.D

Acq: 27 Oct 2025 20:02

Instrument :

BNA_F

ClientSampleId :

JB-2

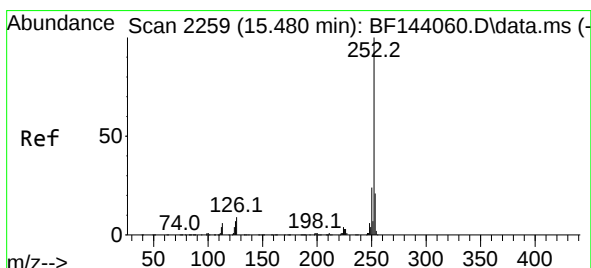
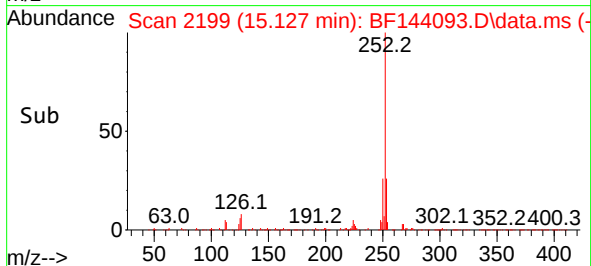
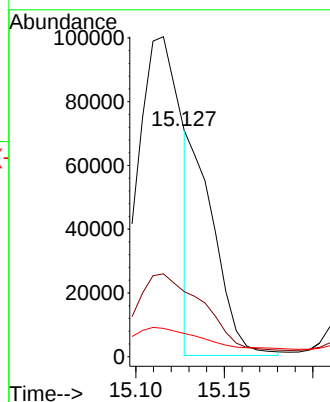
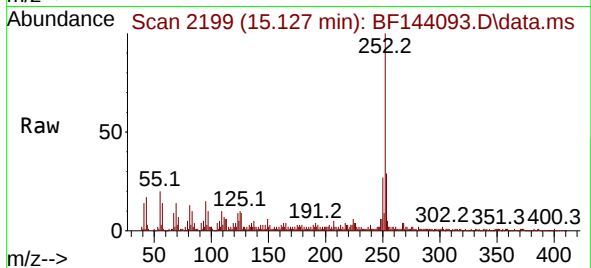
Tgt Ion:252 Resp: 67630
 Ion Ratio Lower Upper
 252 100
 253 28.8 17.4 26.2
 125 10.3 4.9 7.3

Manual Integrations

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Reviewed By :Rahul Chavli 10/28/2025

Supervised By :mohammad ahmed 10/30/2025



#90

Benzo(a)pyrene

Concen: 14.764 ng

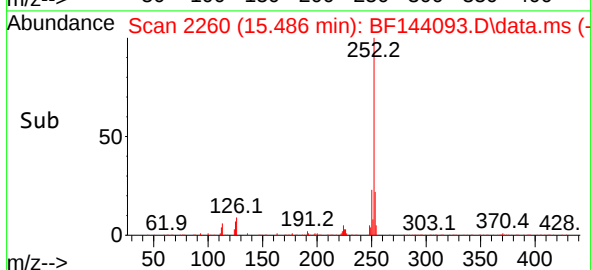
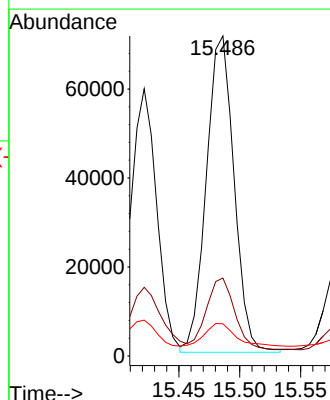
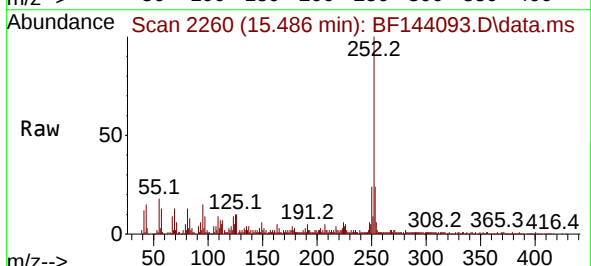
RT: 15.486 min Scan# 2260

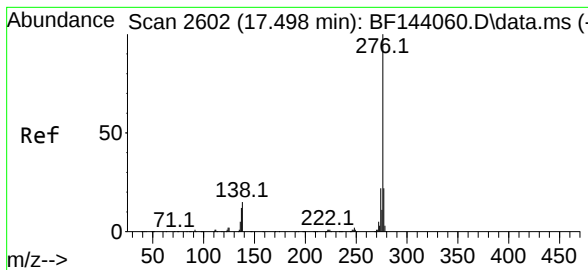
Delta R.T. 0.006 min

Lab File: BF144093.D

Acq: 27 Oct 2025 20:02

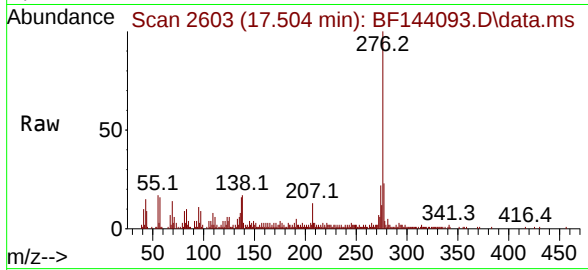
Tgt Ion:252 Resp: 112903
 Ion Ratio Lower Upper
 252 100
 253 24.3 17.1 25.7
 125 10.1 5.4 8.2





#92
 Benzo(g,h,i)perylene
 Concen: 6.590 ng
 RT: 17.504 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: BF144093.D
 Acq: 27 Oct 2025 20:02

Instrument :
 BNA_F
 ClientSampleId :
 JB-2



Tgt Ion: 276 Resp: 54289

Ion	Ratio	Lower	Upper
276	100		
277	23.3	17.9	26.9
138	17.3	12.0	18.0

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/28/2025
 Supervised By :mohammad ahmed 10/30/2025

