

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061225\
 Data File : BF142768.D
 Acq On : 12 Jun 2025 20:26
 Operator : RC/JU
 Sample : Q2283-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MOO-25-0166-MOO-25-0167

Quant Time: Jun 13 01:01:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 11 05:56:09 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 06/13/2025
 Supervised By :mohammad ahmed 06/13/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	44093	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	146491	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	72919	20.000	ng	0.00
64) Phenanthrene-d10	11.445	188	116036	20.000	ng	# 0.02
76) Chrysene-d12	14.086	240	111742	20.000	ng	# 0.02
86) Perylene-d12	15.568	264	90100	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	52766	20.381	ng	0.00
7) Phenol-d6	6.516	99	57264	18.795	ng	0.00
23) Nitrobenzene-d5	7.451	82	31989	11.951	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	15752	19.710	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	74434	13.562	ng	0.00
79) Terphenyl-d14	13.027	244	84376	10.371	ng	0.02
Target Compounds						Qvalue
71) Phenanthrene	11.469	178	38407	6.178	ng	# 35
75) Fluoranthene	12.668	202	135456	22.915	ng	87
78) Pyrene	12.898	202	285683	27.511	ng	# 95
81) Benzo(a)anthracene	14.074	228	153597	20.743	ng	# 91
83) Chrysene	14.110	228	137475	20.109	ng	# 94
87) Indeno(1,2,3-cd)pyrene	17.080	276	36399	5.451	ng	98
88) Benzo(b)fluoranthene	15.133	252	83044m	15.653	ng	
89) Benzo(k)fluoranthene	15.145	252	37988m	7.380	ng	
90) Benzo(a)pyrene	15.504	252	86265	17.102	ng	# 96
91) Dibenzo(a,h)anthracene	17.092	278	11454	2.101	ng	# 77
92) Benzo(g,h,i)perylene	17.539	276	44622	8.231	ng	95

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

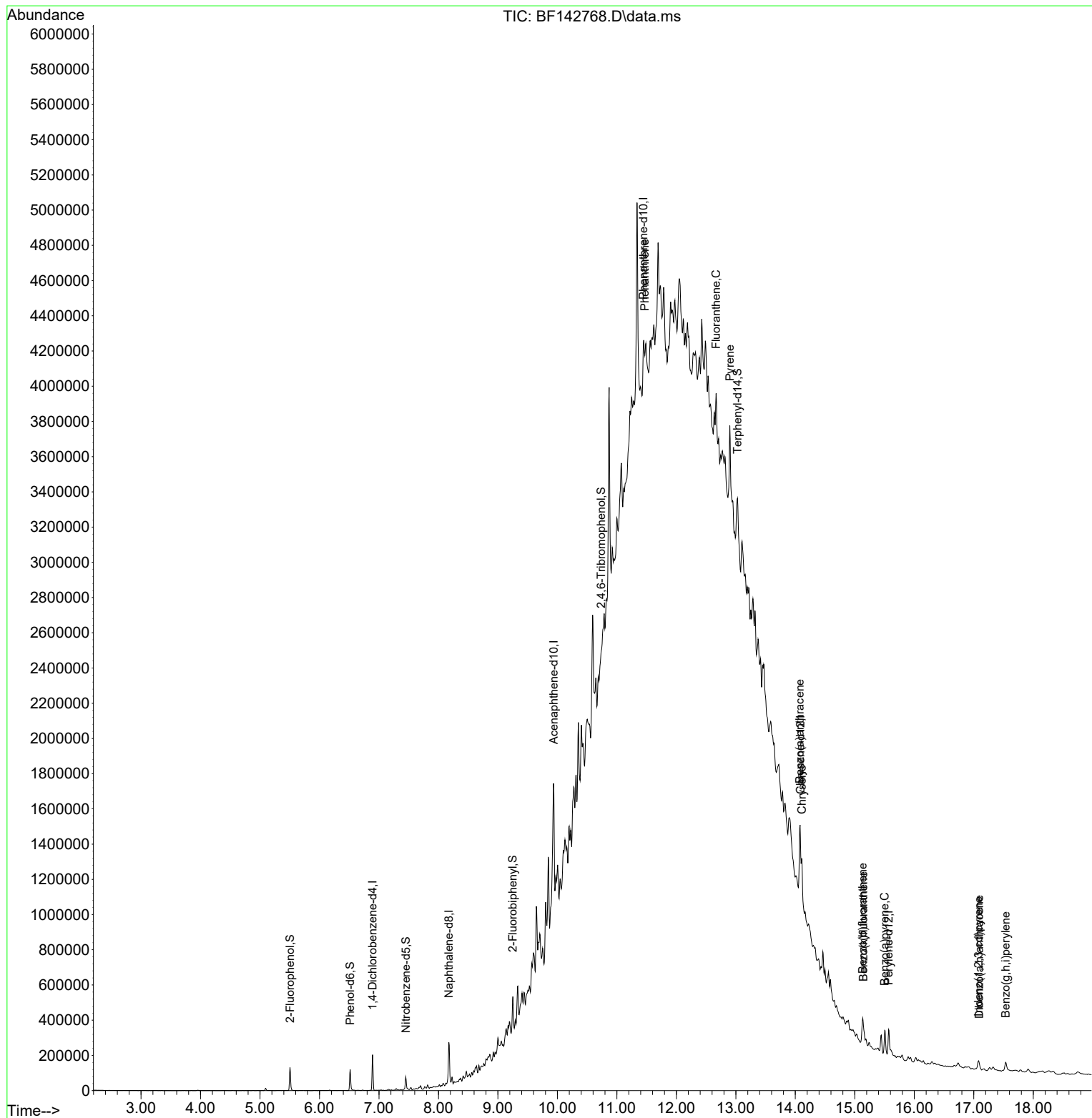
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061225\
Data File : BF142768.D
Acq On : 12 Jun 2025 20:26
Operator : RC/JU
Sample : Q2283-01 5X
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ALS Vial : 22 Sample Multiplier: 1

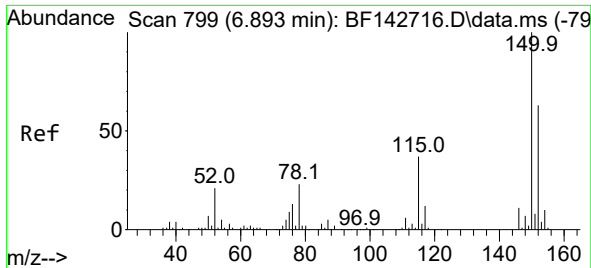
Instrument :
BNA_F
ClientSampleId :
MOO-25-0166-MOO-25-0167

Quant Time: Jun 13 01:01:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Manual Integrations
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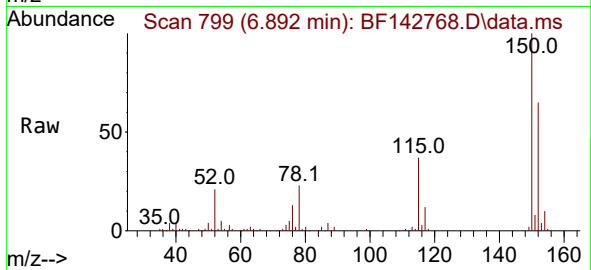
Reviewed By :Rahul Chavli 06/13/2025
Supervised By :mohammad ahmed 06/13/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 799
Delta R.T. -0.001 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

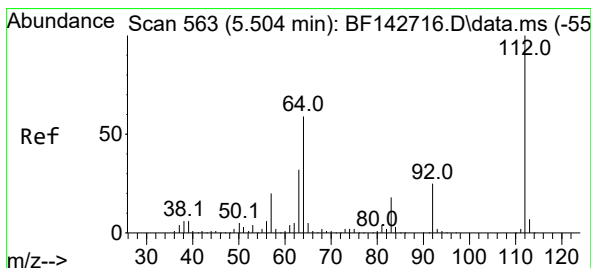
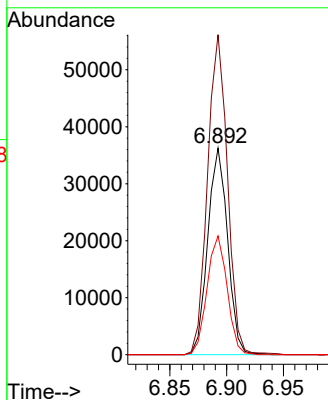
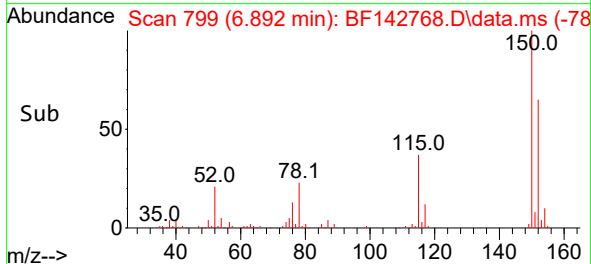
Instrument :
BNA_F
ClientSampleId :
MOO-25-0166-MOO-25-0167



Tgt Ion:152 Resp: 44093
Ion Ratio Lower Upper
152 100
150 154.9 126.9 190.3
115 57.5 47.0 70.6

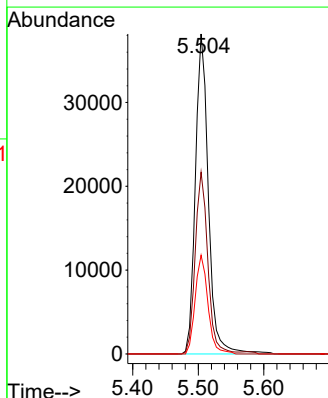
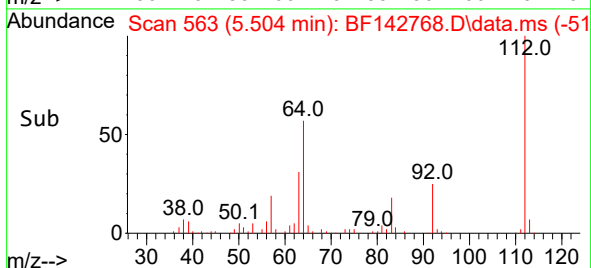
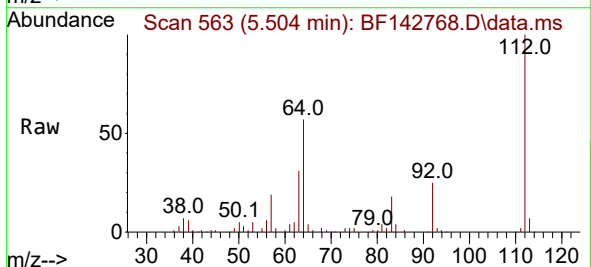
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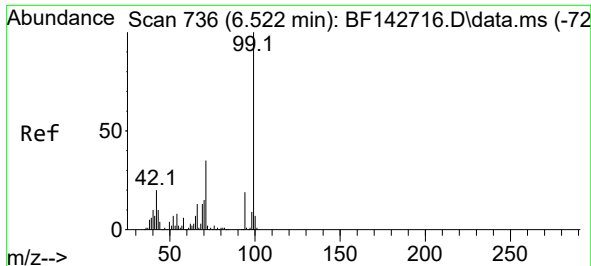
Reviewed By :Rahul Chavli 06/13/2025
Supervised By :mohammad ahmed 06/13/2025



#5
2-Fluorophenol
Concen: 20.381 ng
RT: 5.504 min Scan# 563
Delta R.T. 0.000 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

Tgt Ion:112 Resp: 52766
Ion Ratio Lower Upper
112 100
64 56.8 47.4 71.2
63 30.9 25.4 38.0





#7

Phenol-d6

Concen: 18.795 ng

RT: 6.516 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF142768.D

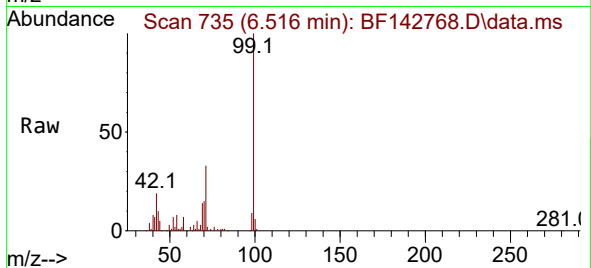
Acq: 12 Jun 2025 20:26

Instrument :

BNA_F

ClientSampleId :

MOO-25-0166-MOO-25-0167



Tgt Ion: 99 Resp: 57264

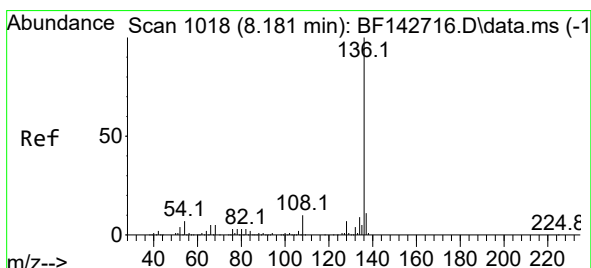
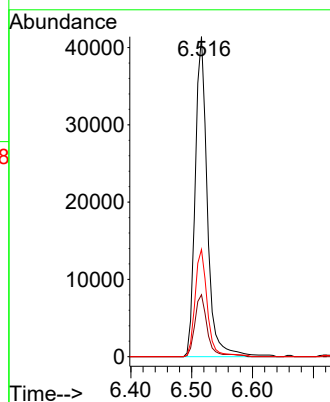
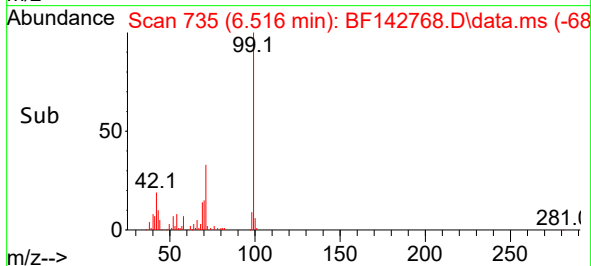
Ion	Ratio	Lower	Upper
99	100		
42	19.3	15.9	23.9
71	33.5	28.0	42.0

Manual Integrations

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Supervised By :mohammad ahmed 06/13/2025



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.175 min Scan# 1017

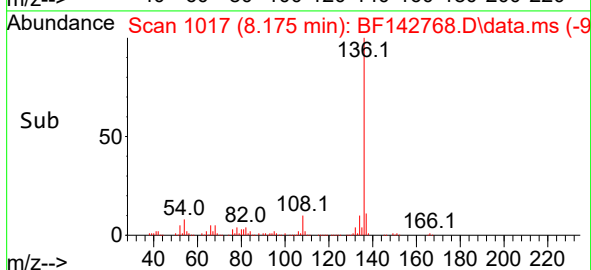
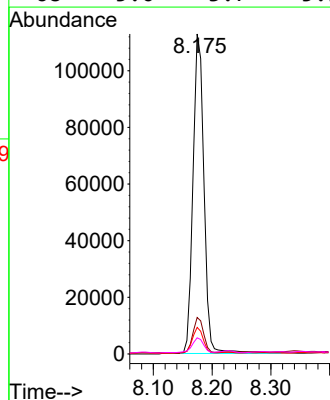
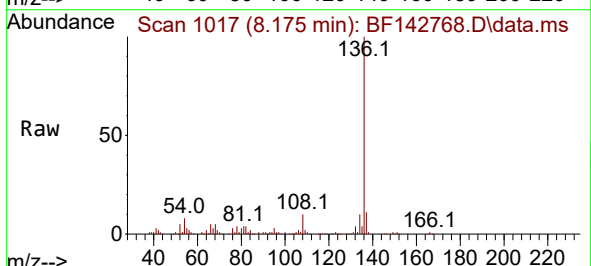
Delta R.T. -0.006 min

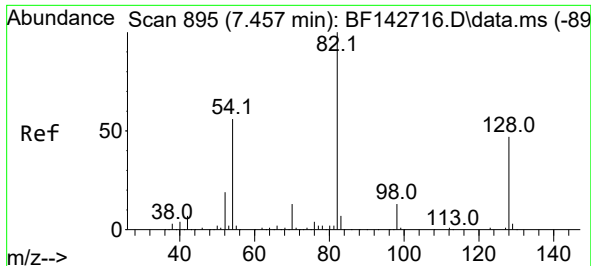
Lab File: BF142768.D

Acq: 12 Jun 2025 20:26

Tgt Ion:136 Resp: 146491

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.7	13.1
54	8.3	5.9	8.9
68	5.0	3.7	5.5





#23

Nitrobenzene-d5

Concen: 11.951 ng

RT: 7.451 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF142768.D

Acq: 12 Jun 2025 20:26

Instrument :

BNA_F

ClientSampleId :

MOO-25-0166-MOO-25-0167

Tgt Ion: 82 Resp: 31989

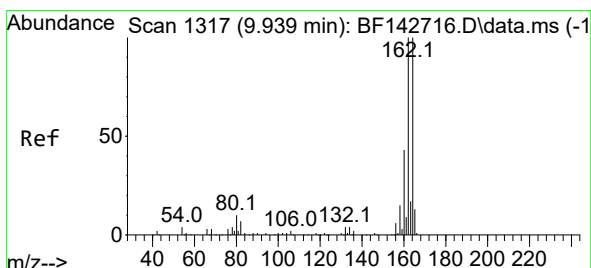
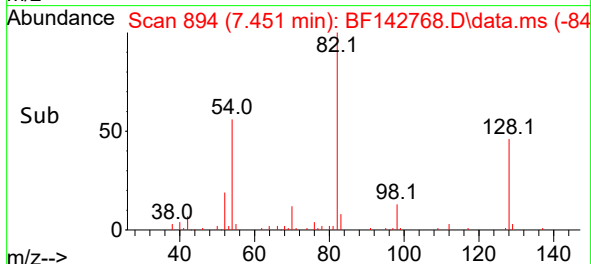
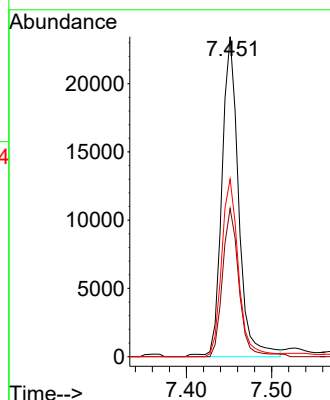
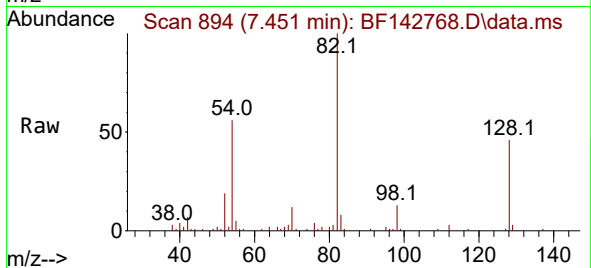
Ion	Ratio	Lower	Upper
82	100		
128	46.3	37.8	56.8
54	55.5	44.9	67.3

Manual Integrations

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Supervised By :mohammad ahmed 06/13/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

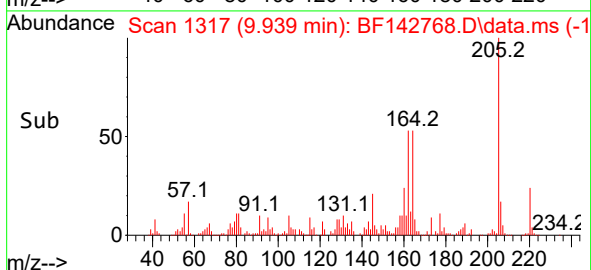
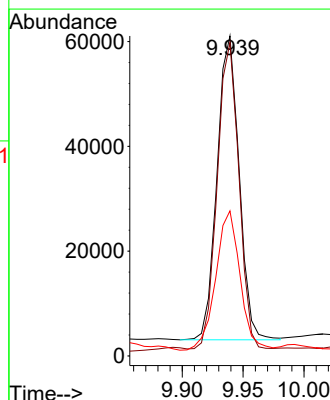
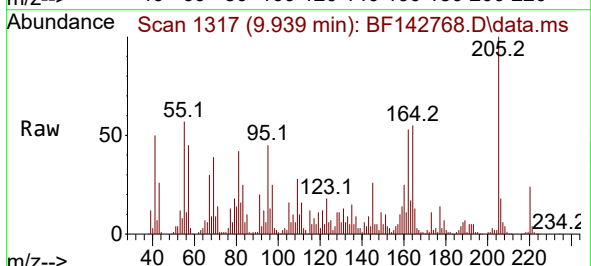
Delta R.T. -0.000 min

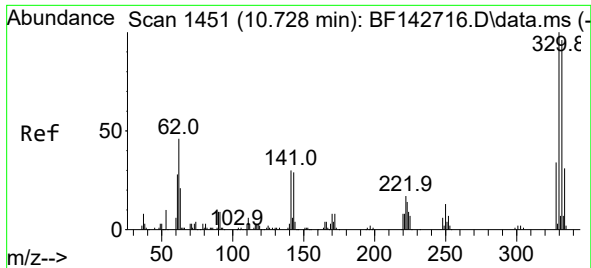
Lab File: BF142768.D

Acq: 12 Jun 2025 20:26

Tgt Ion:164 Resp: 72919

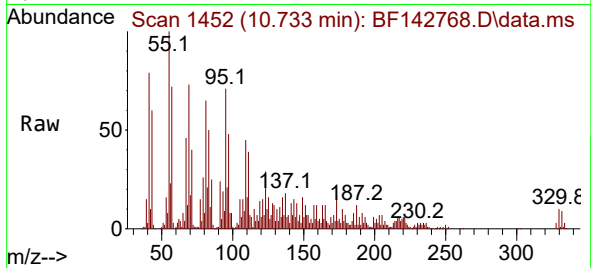
Ion	Ratio	Lower	Upper
164	100		
162	98.0	79.9	119.9
160	45.4	34.8	52.2





#42
2,4,6-Tribromophenol
Concen: 19.710 ng
RT: 10.733 min Scan# 1451
Delta R.T. 0.005 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

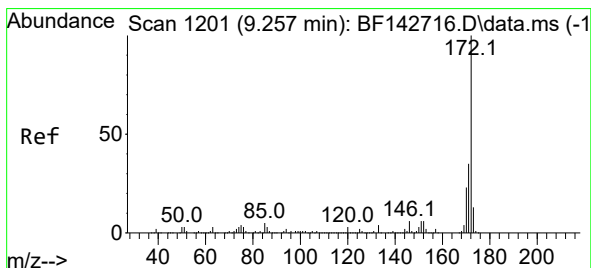
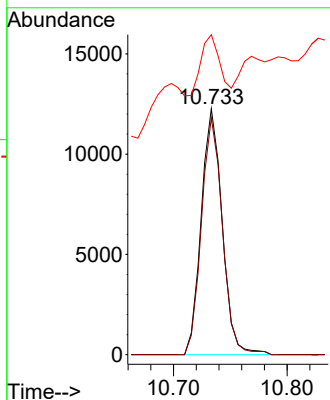
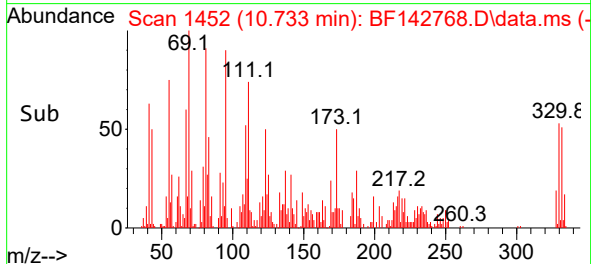
Instrument :
BNA_F
ClientSampleId :
MOO-25-0166-MOO-25-0167



Tgt Ion: 330 Resp: 15752
Ion Ratio Lower Upper
330 100
332 96.3 77.0 115.6
141 22.2 25.4 38.0

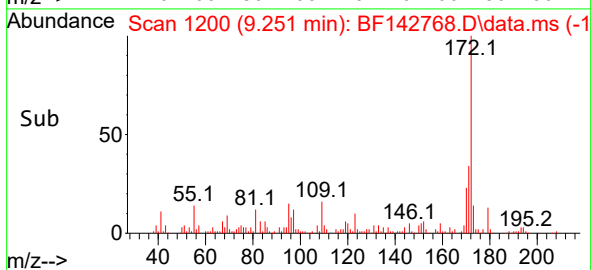
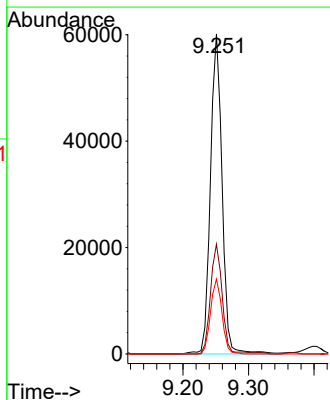
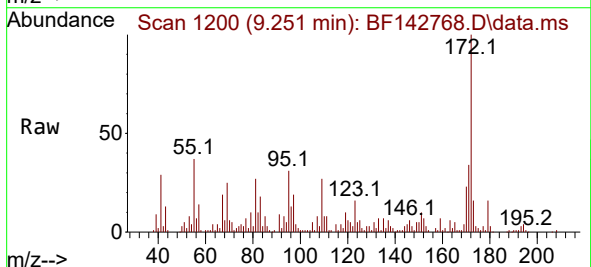
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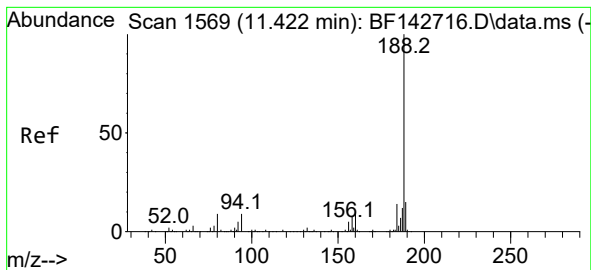
Reviewed By :Rahul Chavli 06/13/2025
Supervised By :mohammad ahmed 06/13/2025



#45
2-Fluorobiphenyl
Concen: 13.562 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.006 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 172 Resp: 74434
Ion Ratio Lower Upper
172 100
171 34.3 28.1 42.1
170 23.4 18.6 27.8





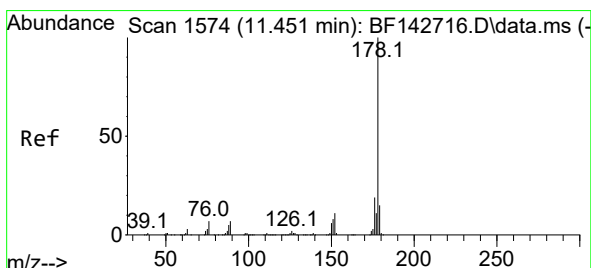
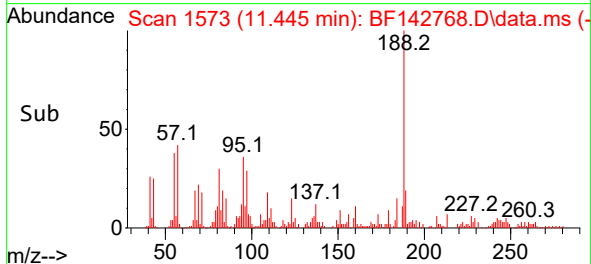
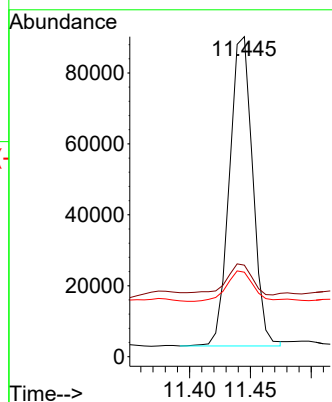
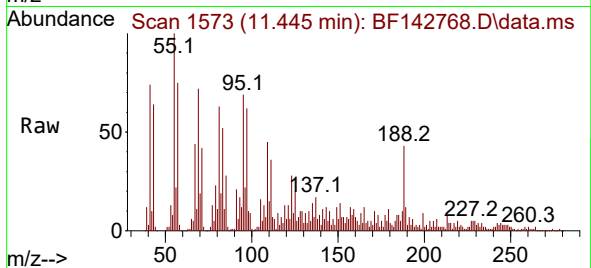
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.445 min Scan# 11445
Delta R.T. 0.023 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

Instrument :
BNA_F
ClientSampleId :
MOO-25-0166-MOO-25-0167

Tgt Ion:188 Resp: 116030
Ion Ratio Lower Upper
188 100
94 28.6 6.8 10.2
80 26.4 7.1 10.7

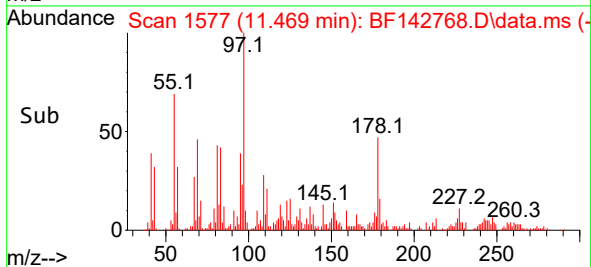
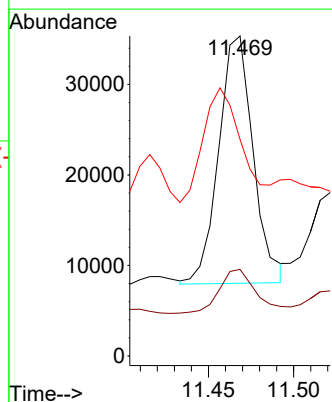
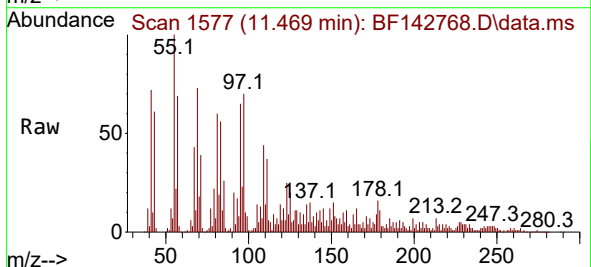
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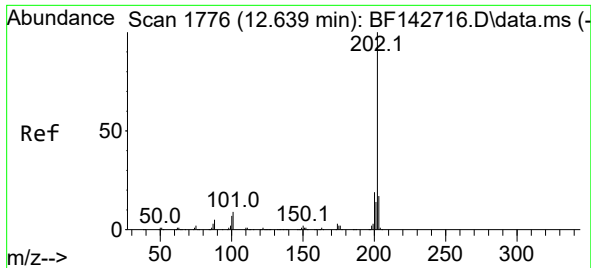
Reviewed By :Rahul Chavli 06/13/2025
Supervised By :mohammad ahmed 06/13/2025



#71
Phenanthrene
Concen: 6.178 ng
RT: 11.469 min Scan# 1577
Delta R.T. 0.017 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

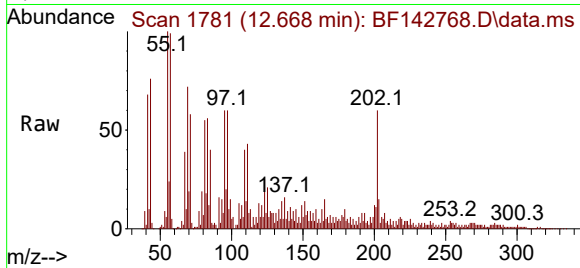
Tgt Ion:178 Resp: 38407
Ion Ratio Lower Upper
178 100
176 27.0 15.4 23.2#
179 67.6 12.2 18.4#





#75
Fluoranthene
Concen: 22.915 ng
RT: 12.668 min Scan# 1776
Delta R.T. 0.029 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

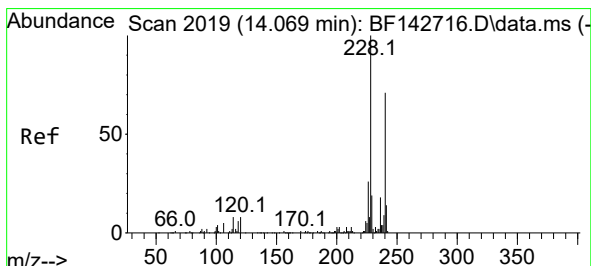
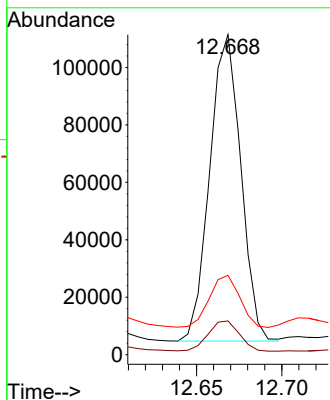
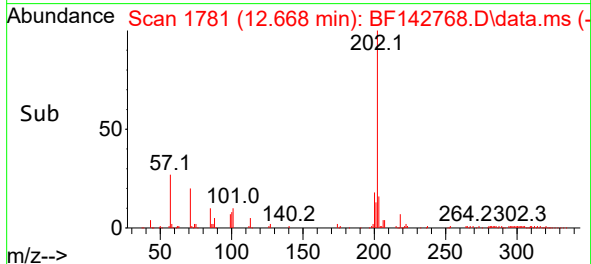
Instrument : BNA_F
ClientSampleId : MOO-25-0166-MOO-25-0167



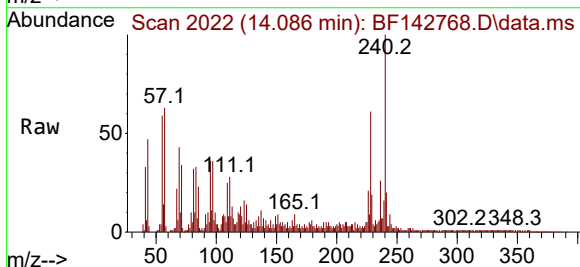
Tgt Ion:202 Resp: 135450
Ion Ratio Lower Upper
202 100
101 10.5 0.0 29.5
203 24.8 0.0 37.0

Manual Integrations
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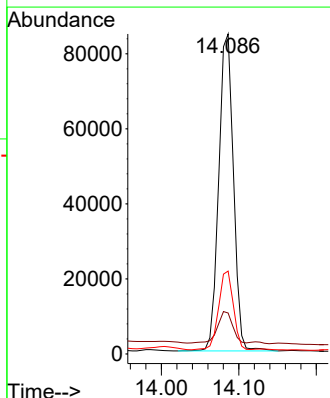
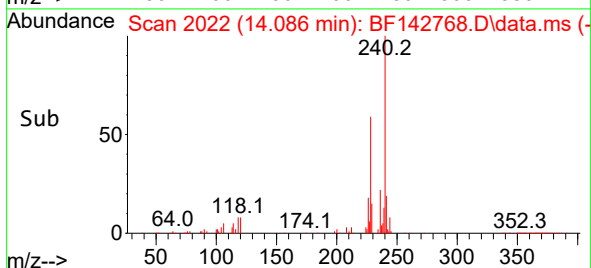
Reviewed By :Rahul Chavli 06/13/2025
Supervised By :mohammad ahmed 06/13/2025

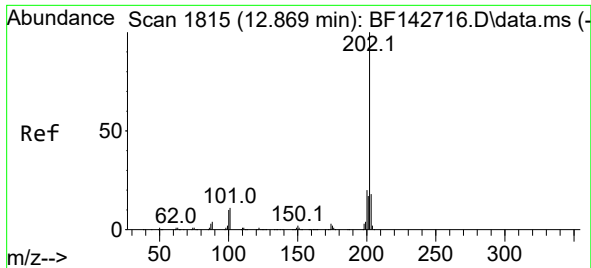


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.086 min Scan# 2022
Delta R.T. 0.017 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26



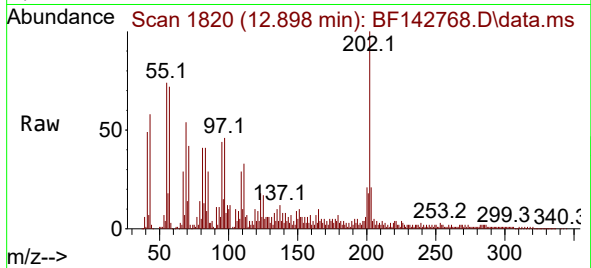
Tgt Ion:240 Resp: 111742
Ion Ratio Lower Upper
240 100
120 12.8 8.5 12.7#
236 25.9 20.1 30.1





#78
Pyrene
Concen: 27.511 ng
RT: 12.898 min Scan# 1815
Delta R.T. 0.029 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

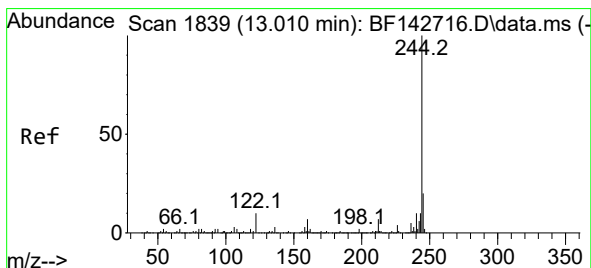
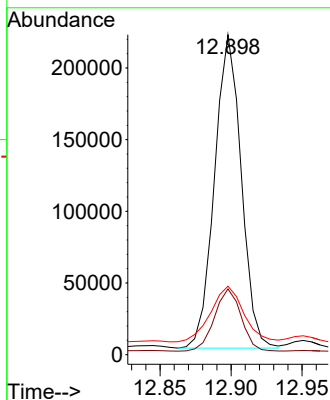
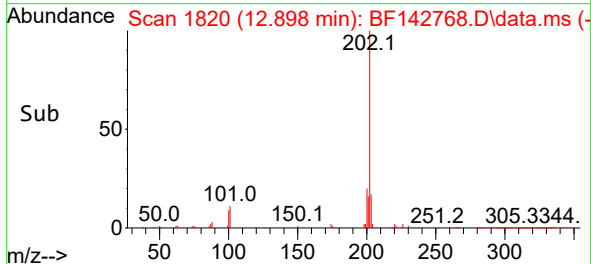
Instrument :
BNA_F
ClientSampleId :
MOO-25-0166-MOO-25-0167



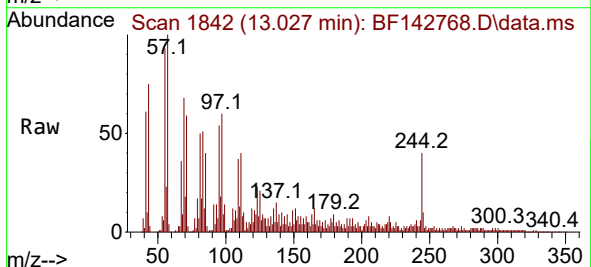
Tgt Ion:202 Resp: 28568
Ion Ratio Lower Upper
202 100
200 20.5 15.8 23.8
203 21.4 14.1 21.1

Manual Integrations
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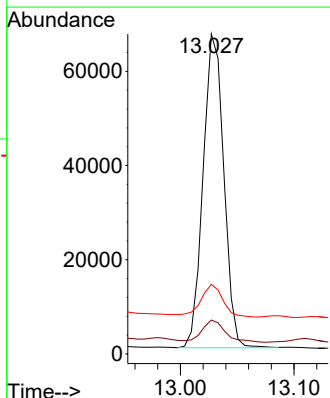
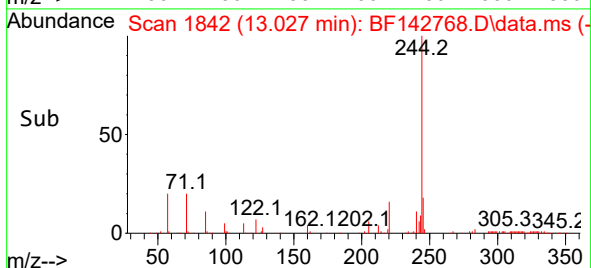
Reviewed By :Rahul Chavli 06/13/2025
Supervised By :mohammad ahmed 06/13/2025

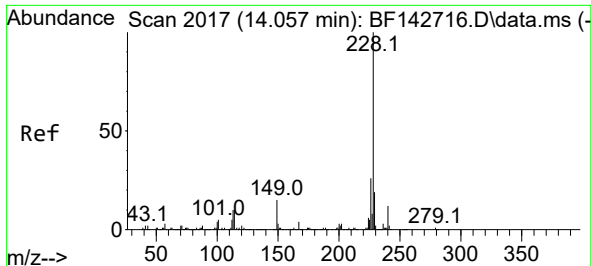


#79
Terphenyl-d14
Concen: 10.371 ng
RT: 13.027 min Scan# 1842
Delta R.T. 0.017 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26



Tgt Ion:244 Resp: 84376
Ion Ratio Lower Upper
244 100
212 10.6 5.4 8.0#
122 21.7 8.3 12.5#





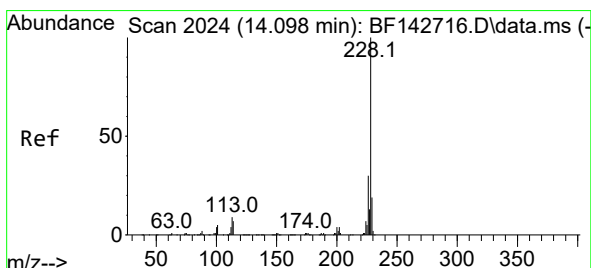
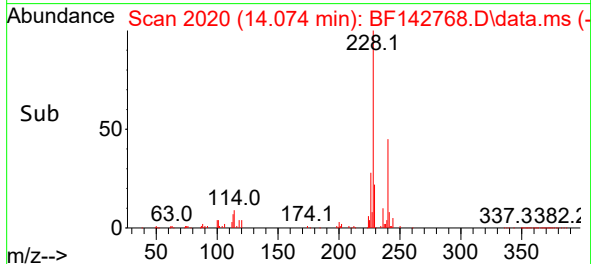
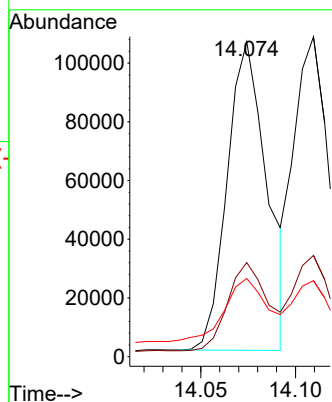
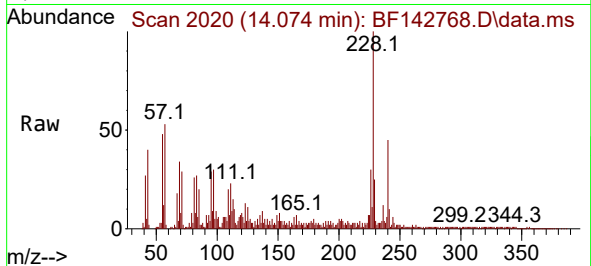
#81
Benzo(a)anthracene
Concen: 20.743 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.017 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

Instrument :
BNA_F
ClientSampleId :
MOO-25-0166-MOO-25-0167

Tgt Ion:228 Resp: 153597
Ion Ratio Lower Upper
228 100
226 29.9 21.0 31.4
229 24.9 15.5 23.3

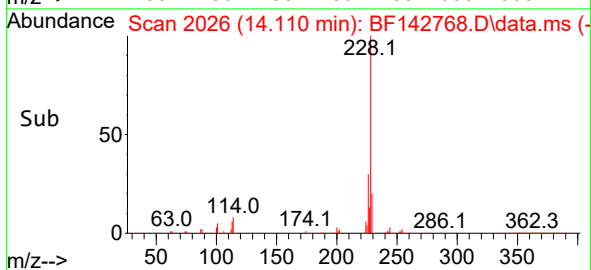
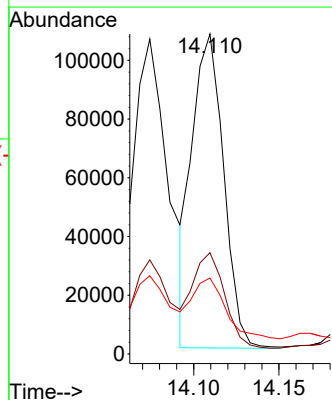
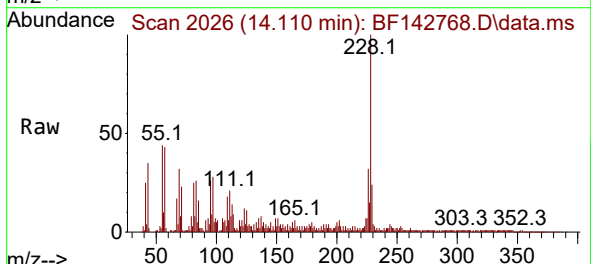
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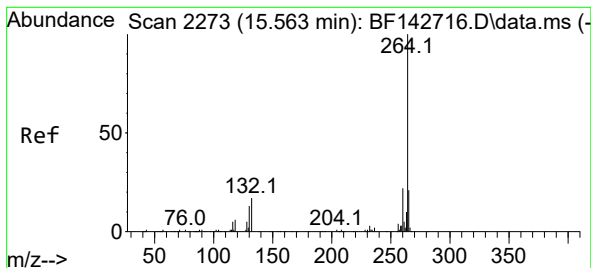
Reviewed By :Rahul Chavli 06/13/2025
Supervised By :mohammad ahmed 06/13/2025



#83
Chrysene
Concen: 20.109 ng
RT: 14.110 min Scan# 2026
Delta R.T. 0.012 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

Tgt Ion:228 Resp: 137475
Ion Ratio Lower Upper
228 100
226 31.7 23.6 35.4
229 23.7 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.568 min Scan# 2273

Delta R.T. 0.006 min

Lab File: BF142768.D

Acq: 12 Jun 2025 20:26

Instrument :

BNA_F

ClientSampleId :

MOO-25-0166-MOO-25-0167

Tgt Ion:264 Resp: 90100

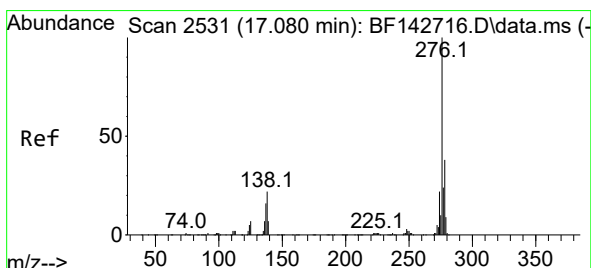
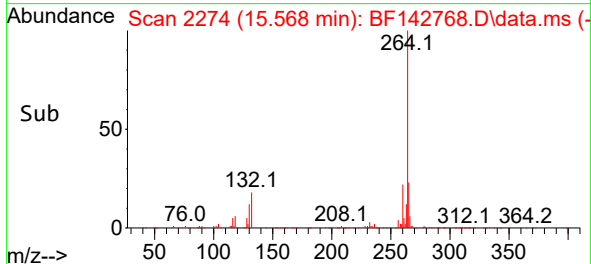
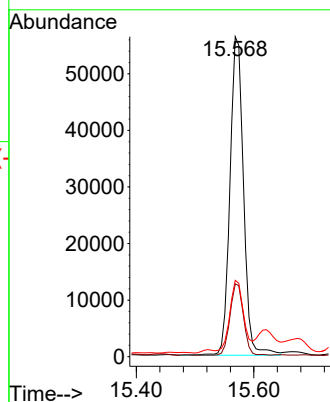
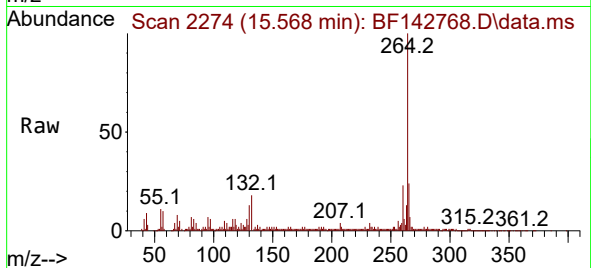
Ion	Ratio	Lower	Upper
264	100		
260	22.8	17.8	26.6
265	23.9	16.6	25.0

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Reviewed By :Rahul Chavli 06/13/2025

Supervised By :mohammad ahmed 06/13/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.451 ng

RT: 17.080 min Scan# 2531

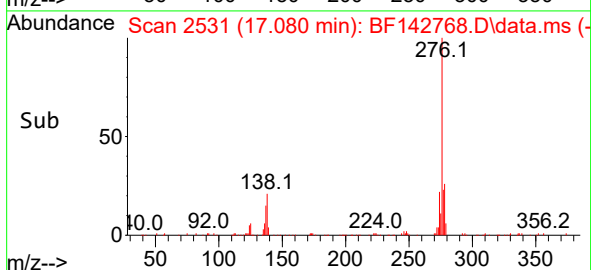
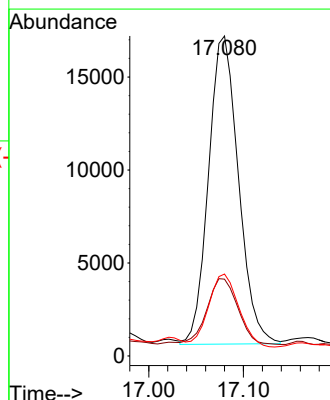
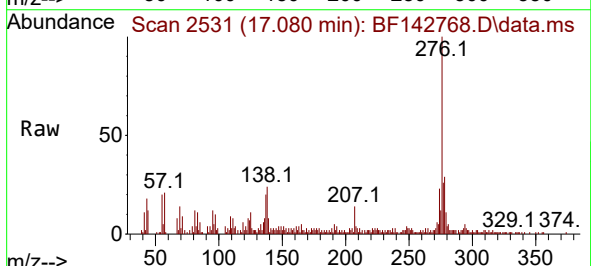
Delta R.T. -0.000 min

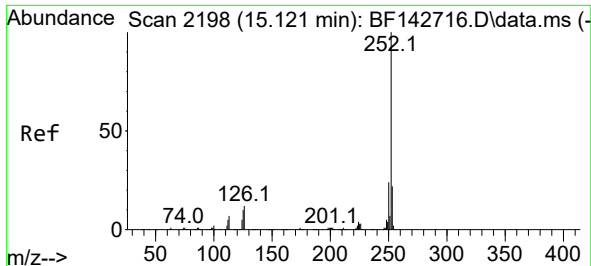
Lab File: BF142768.D

Acq: 12 Jun 2025 20:26

Tgt Ion:276 Resp: 36399

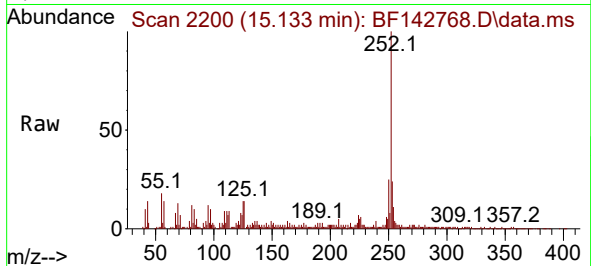
Ion	Ratio	Lower	Upper
276	100		
138	24.5	19.3	28.9
277	24.0	20.2	30.2





#88
Benzo(b)fluoranthene
Concen: 15.653 ng m
RT: 15.133 min Scan# 2198
Delta R.T. 0.012 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

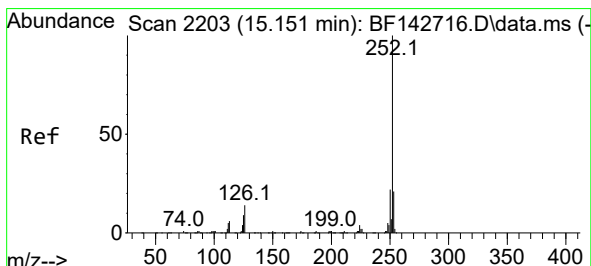
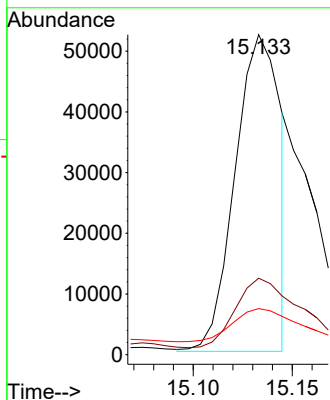
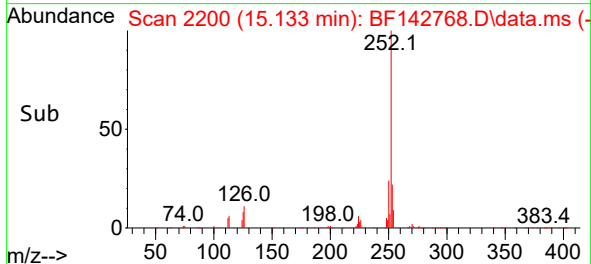
Instrument :
BNA_F
ClientSampleId :
MOO-25-0166-MOO-25-0167



Tgt Ion:252 Resp: 8304
Ion Ratio Lower Upper
252 100
253 23.9 17.7 26.5
125 14.4 7.8 11.6

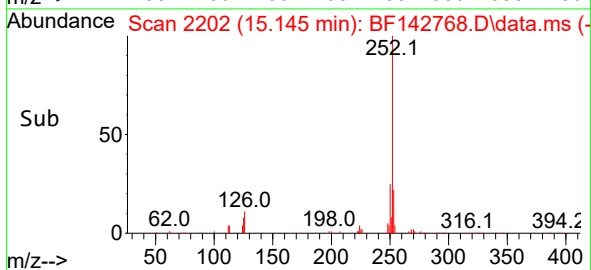
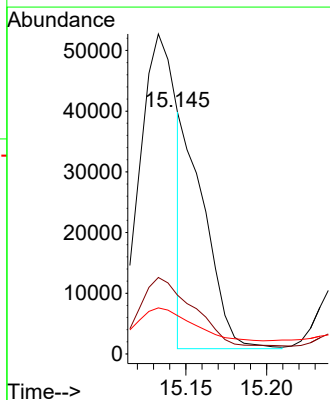
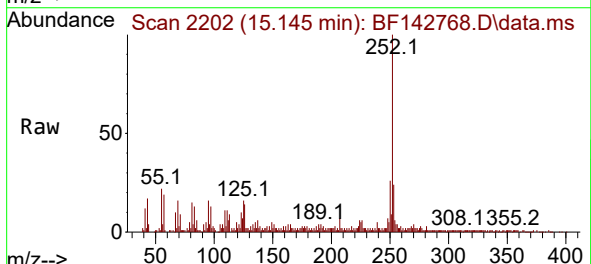
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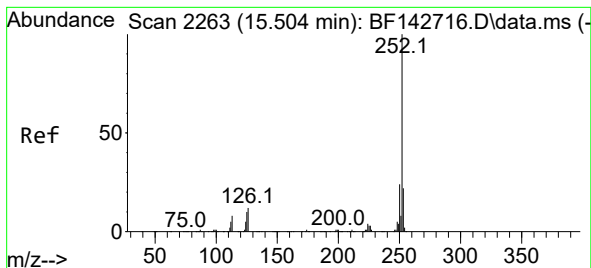
Reviewed By :Rahul Chavli 06/13/2025
Supervised By :mohammad ahmed 06/13/2025



#89
Benzo(k)fluoranthene
Concen: 7.380 ng m
RT: 15.145 min Scan# 2202
Delta R.T. -0.006 min
Lab File: BF142768.D
Acq: 12 Jun 2025 20:26

Tgt Ion:252 Resp: 37988
Ion Ratio Lower Upper
252 100
253 24.4 17.3 25.9
125 15.9 7.5 11.3





#90

Benzo(a)pyrene

Concen: 17.102 ng

RT: 15.504 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF142768.D

Acq: 12 Jun 2025 20:26

Instrument :

BNA_F

ClientSampleId :

MOO-25-0166-MOO-25-0167

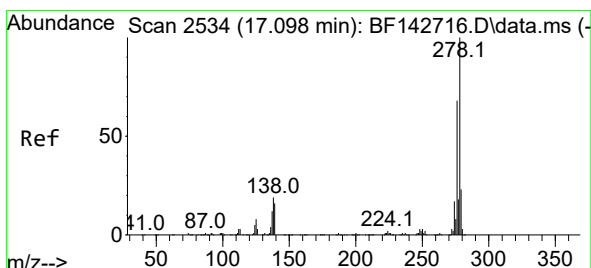
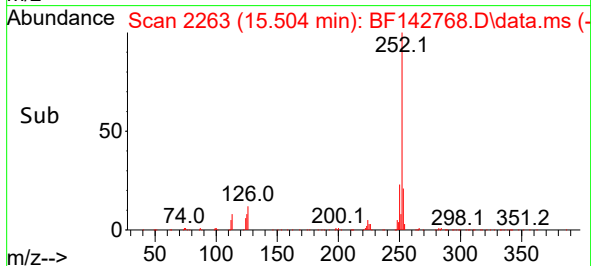
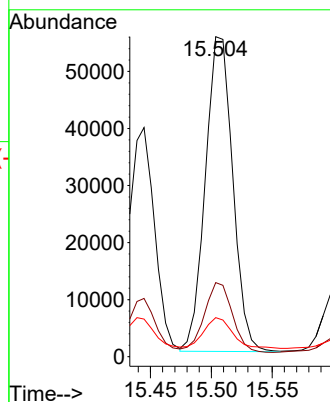
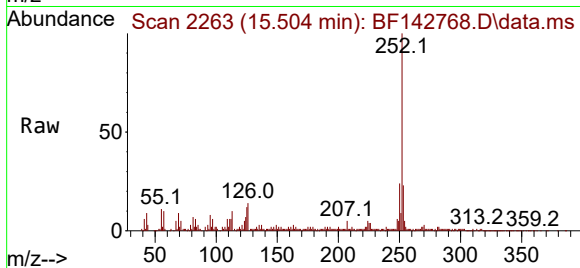
Tgt Ion:	252	Resp:	8626
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.3	25.9
125	12.2	8.0	12.0

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Reviewed By :Rahul Chavli 06/13/2025

Supervised By :mohammad ahmed 06/13/2025



#91

Dibenzo(a,h)anthracene

Concen: 2.101 ng

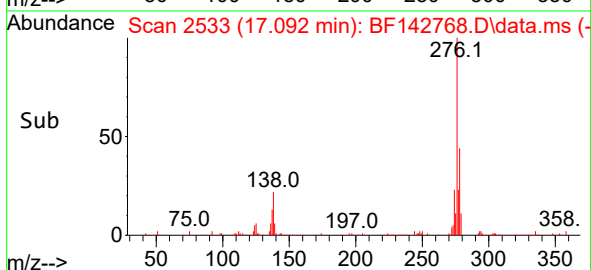
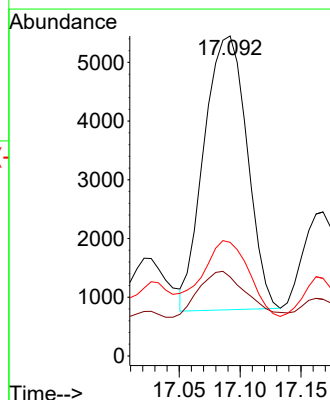
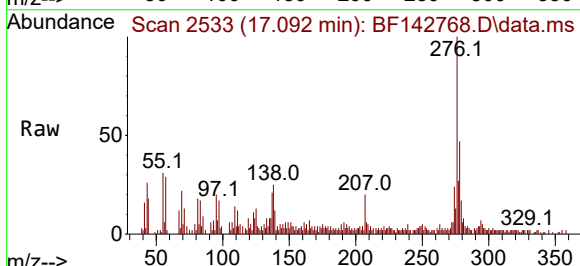
RT: 17.092 min Scan# 2533

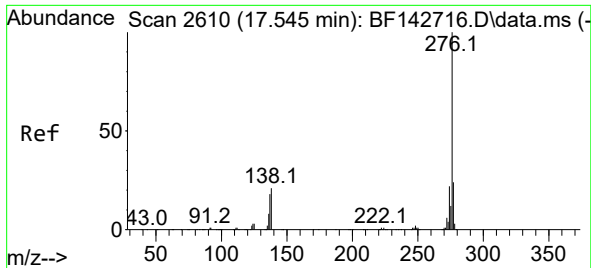
Delta R.T. -0.006 min

Lab File: BF142768.D

Acq: 12 Jun 2025 20:26

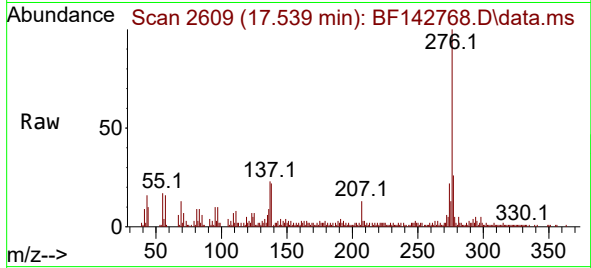
Tgt Ion:	278	Resp:	11454
Ion Ratio	Lower	Upper	
278	100		
139	24.7	12.8	19.2#
279	35.5	18.7	28.1#





#92
 Benzo(g,h,i)perylene
 Concen: 8.231 ng
 RT: 17.539 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: BF142768.D
 Acq: 12 Jun 2025 20:26

Instrument :
 BNA_F
 ClientSampleId :
 MOO-25-0166-MOO-25-0167



Tgt Ion:276	Resp:	4462
Ion Ratio	Lower	Upper
276	100	
277	26.1	18.8 28.2
138	22.3	16.4 24.6

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 06/13/2025
 Supervised By :mohammad ahmed 06/13/2025

