

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102925\
 Data File : BF144137.D
 Acq On : 29 Oct 2025 19:30
 Operator : RC/JU
 Sample : Q3481-01 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-102825

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/30/2025
 Supervised By :Jagrut Upadhyay 10/30/2025

Quant Time: Oct 30 02:21:47 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	6.875	152	50471	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	177907	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	94459	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	161483	20.000	ng	0.00
76) Chrysene-d12	14.051	240	146720	20.000	ng	0.00
86) Perylene-d12	15.539	264	122941	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	125795	39.433	ng	0.00
7) Phenol-d6	6.498	99	144538	41.025	ng	0.00
23) Nitrobenzene-d5	7.434	82	82233	25.324	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	40272	33.470	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	168337	25.078	ng	0.00
79) Terphenyl-d14	12.992	244	190438	22.691	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.428	178	89431	11.149	ng	97
72) Anthracene	11.480	178	26722	3.225	ng	97
75) Fluoranthene	12.622	202	126746	14.301	ng	99
78) Pyrene	12.851	202	119262	11.306	ng	97
81) Benzo(a)anthracene	14.045	228	68187	6.877	ng	96
83) Chrysene	14.080	228	48974	5.263	ng	97
87) Indeno(1,2,3-cd)pyrene	17.039	276	19082	2.261	ng	98
88) Benzo(b)fluoranthene	15.104	252	59901m	8.619	ng	
89) Benzo(k)fluoranthene	15.121	252	18179m	2.835	ng	
90) Benzo(a)pyrene	15.474	252	40997	6.575	ng	# 94
92) Benzo(g,h,i)perylene	17.486	276	17734	2.640	ng	# 94

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

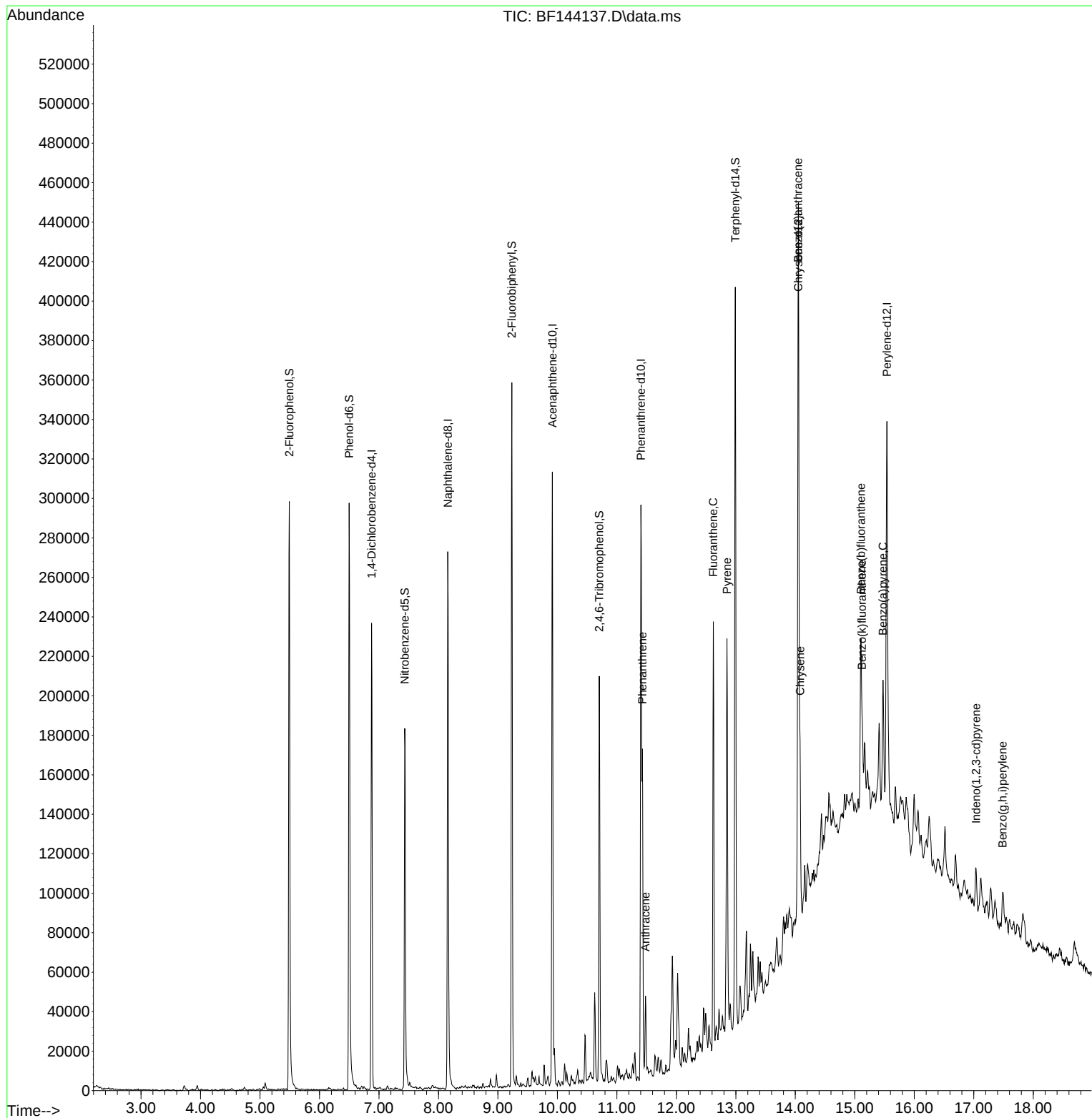
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102925\
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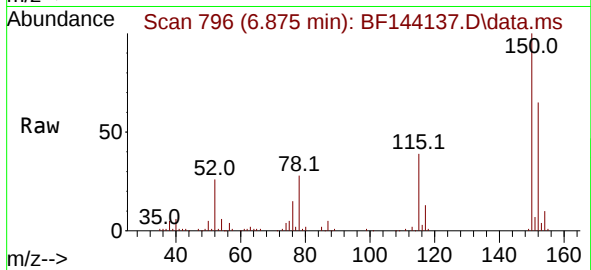
Reviewed By :Rahul Chavli 10/30/2025
Supervised By :Jagrut Upadhyay 10/30/2025





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.875 min Scan# 797
 Delta R.T. -0.006 min
 Lab File: BF144137.D
 Acq: 29 Oct 2025 19:30

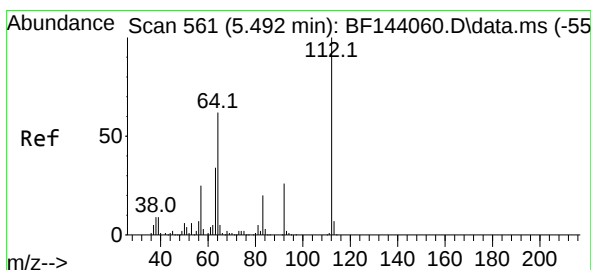
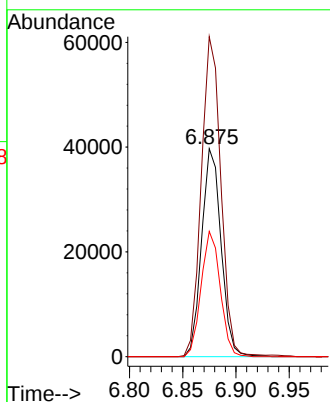
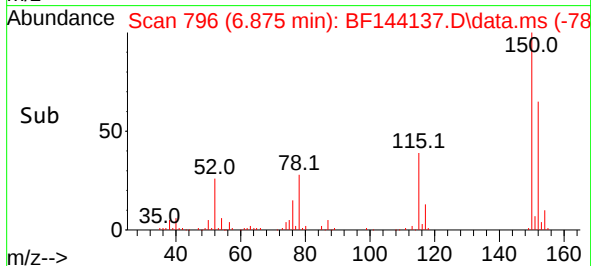
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-102825



Tgt Ion:152 Resp: 5047
 Ion Ratio Lower Upper
 152 100
 150 153.9 124.4 186.6
 115 60.3 49.4 74.0

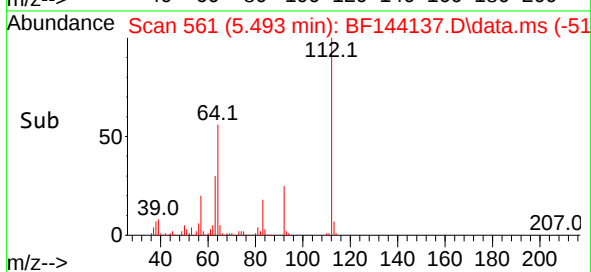
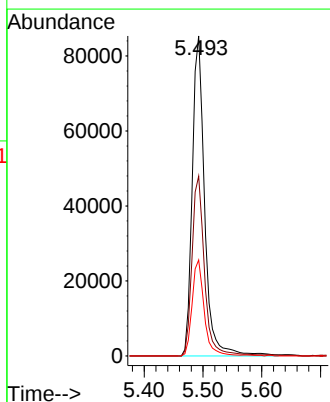
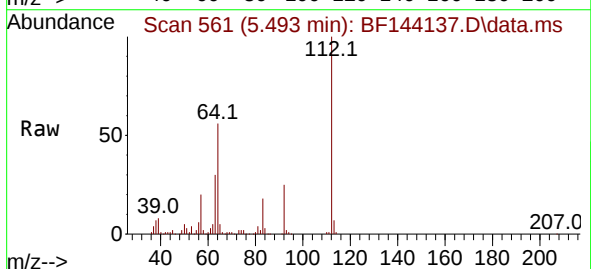
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#5
 2-Fluorophenol
 Concen: 39.433 ng
 RT: 5.493 min Scan# 561
 Delta R.T. 0.000 min
 Lab File: BF144137.D
 Acq: 29 Oct 2025 19:30

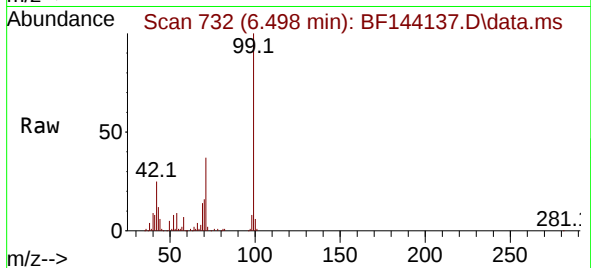
Tgt Ion:112 Resp: 125795
 Ion Ratio Lower Upper
 112 100
 64 56.2 49.8 74.8
 63 30.0 27.4 41.2





#7
Phenol-d6
Concen: 41.025 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF144137.D
Acq: 29 Oct 2025 19:30

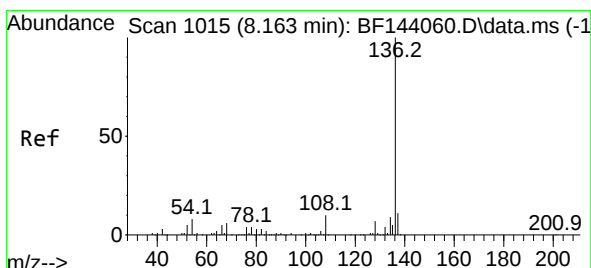
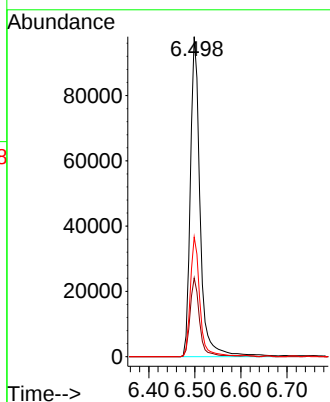
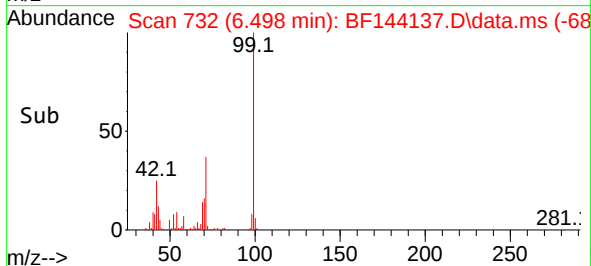
Instrument :
BNA_F
ClientSampleId :
OR-02-102825



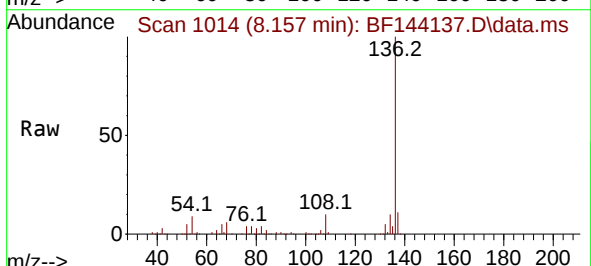
Tgt Ion: 99 Resp: 144538
Ion Ratio Lower Upper
99 100
42 24.6 23.9 35.9
71 37.4 34.4 51.6

Manual Integrations
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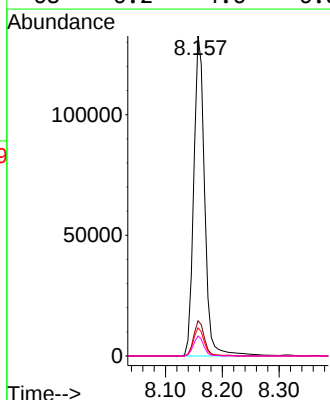
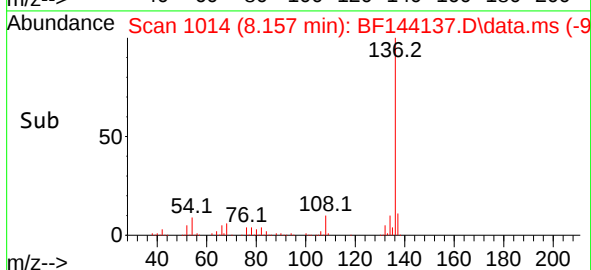
Reviewed By :Rahul Chavli 10/30/2025
Supervised By :Jagrut Upadhyay 10/30/2025

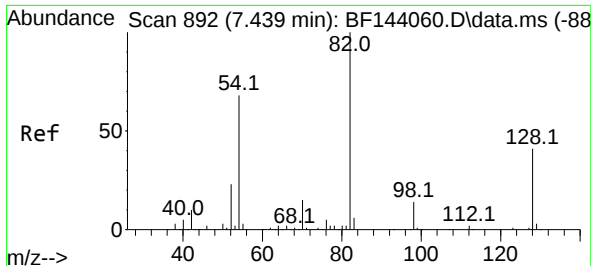


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF144137.D
Acq: 29 Oct 2025 19:30



Tgt Ion:136 Resp: 177907
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 8.8 6.6 9.8
68 6.2 4.6 6.8





#23

Nitrobenzene-d5

Concen: 25.324 ng

RT: 7.434 min Scan# 892

Delta R.T. -0.006 min

Lab File: BF144137.D

Acq: 29 Oct 2025 19:30

Instrument :

BNA_F

ClientSampleId :

OR-02-102825

Tgt Ion: 82 Resp: 8223

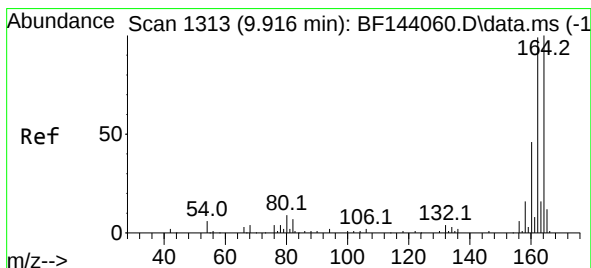
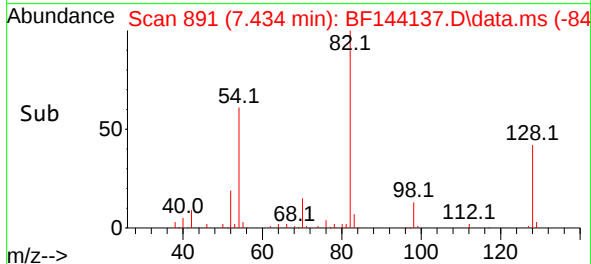
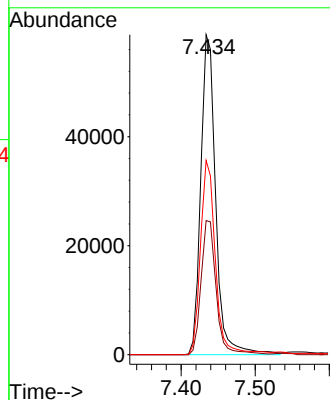
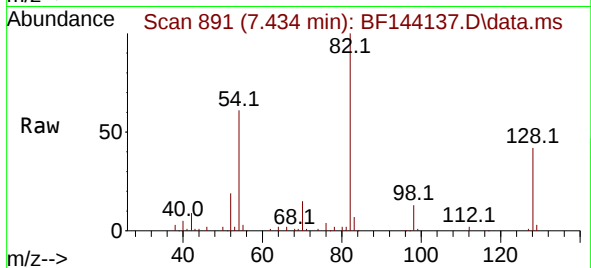
Ion	Ratio	Lower	Upper
82	100		
128	41.9	32.4	48.6
54	60.7	54.0	81.0

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

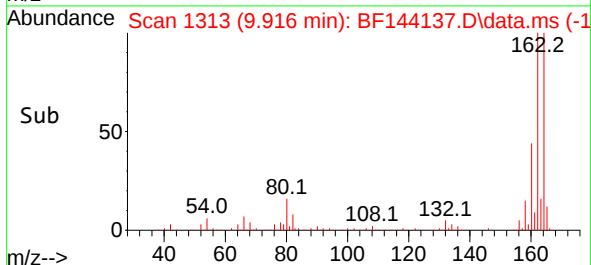
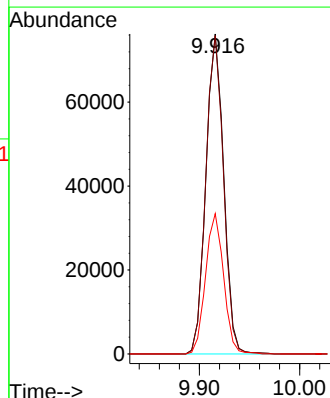
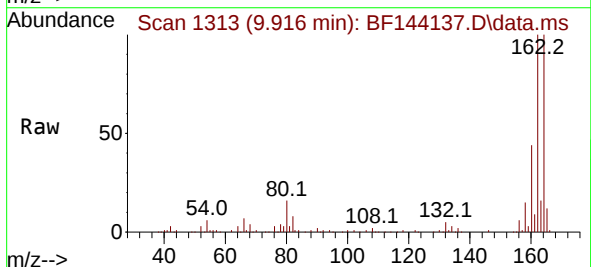
Delta R.T. 0.000 min

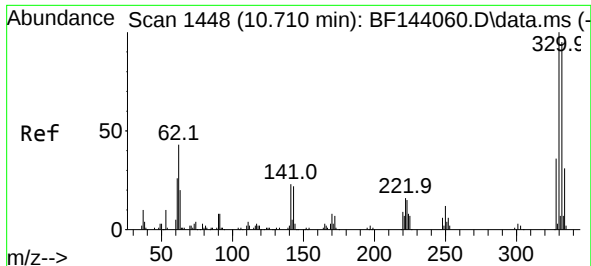
Lab File: BF144137.D

Acq: 29 Oct 2025 19:30

Tgt Ion:164 Resp: 94459

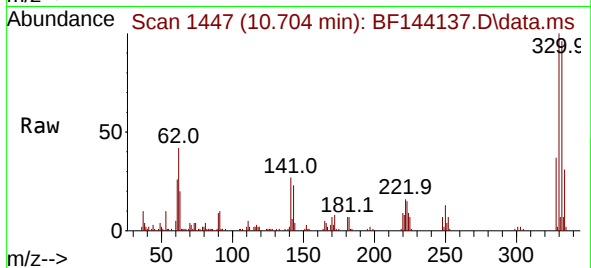
Ion	Ratio	Lower	Upper
164	100		
162	99.5	79.4	119.2
160	43.8	36.7	55.1





#42
2,4,6-Tribromophenol
Concen: 33.470 ng
RT: 10.704 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF144137.D
Acq: 29 Oct 2025 19:30

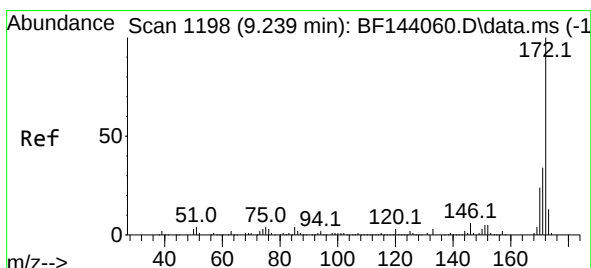
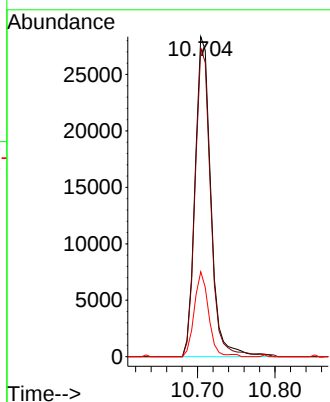
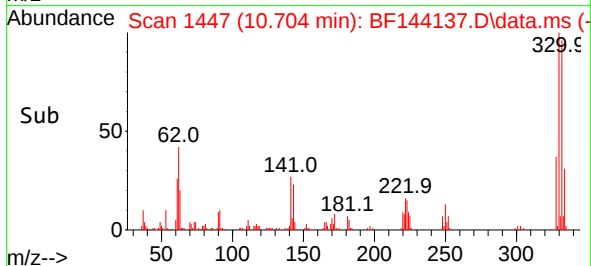
Instrument :
BNA_F
ClientSampleId :
OR-02-102825



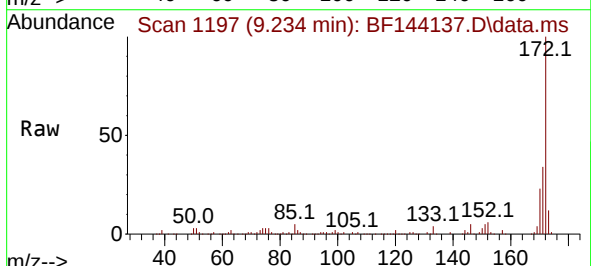
Tgt Ion: 330 Resp: 40272
Ion Ratio Lower Upper
330 100
332 95.1 77.0 115.6
141 24.0 19.4 29.0

Manual Integrations
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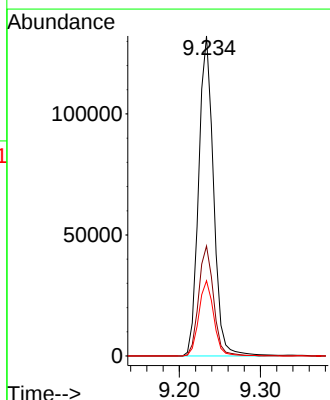
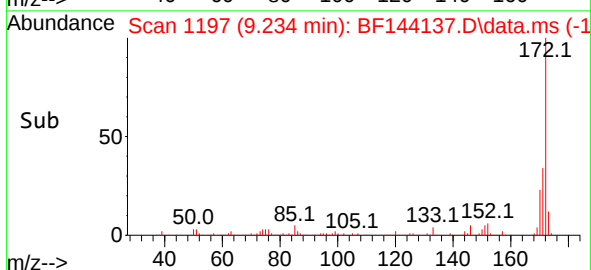
Reviewed By :Rahul Chavli 10/30/2025
Supervised By :Jagrut Upadhyay 10/30/2025

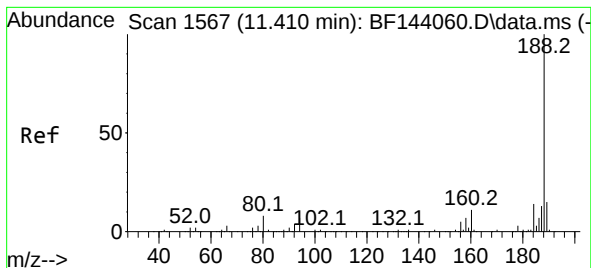


#45
2-Fluorobiphenyl
Concen: 25.078 ng
RT: 9.234 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF144137.D
Acq: 29 Oct 2025 19:30



Tgt Ion: 172 Resp: 168337
Ion Ratio Lower Upper
172 100
171 34.4 27.5 41.3
170 23.5 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF144137.D

Acq: 29 Oct 2025 19:30

Instrument :

BNA_F

ClientSampleId :

OR-02-102825

Tgt Ion:188 Resp: 16148

Ion Ratio Lower Upper

188 100

94 7.5 5.4 8.0

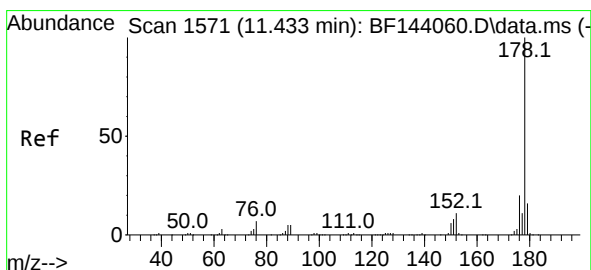
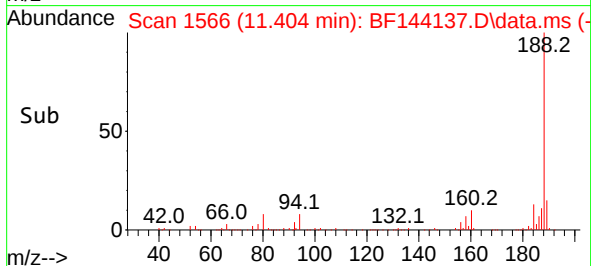
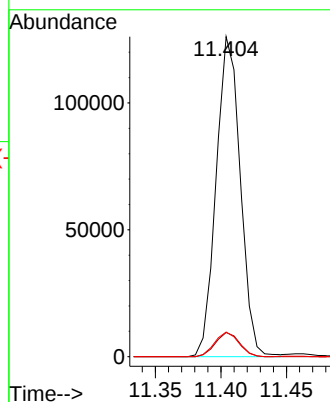
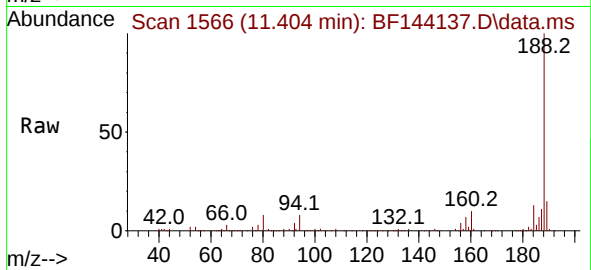
80 7.7 6.0 9.0

Manual Integrations

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Reviewed By :Rahul Chavli 10/30/2025

Supervised By :Jagrut Upadhyay 10/30/2025



#71

Phenanthrene

Concen: 11.149 ng

RT: 11.428 min Scan# 1570

Delta R.T. -0.006 min

Lab File: BF144137.D

Acq: 29 Oct 2025 19:30

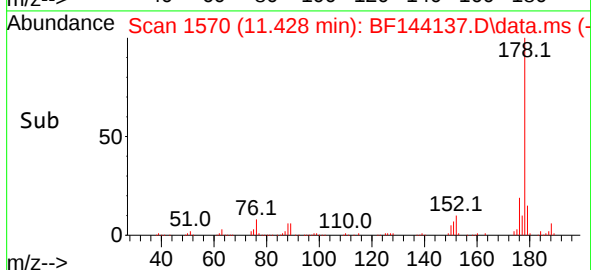
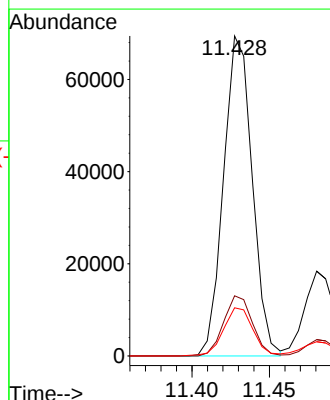
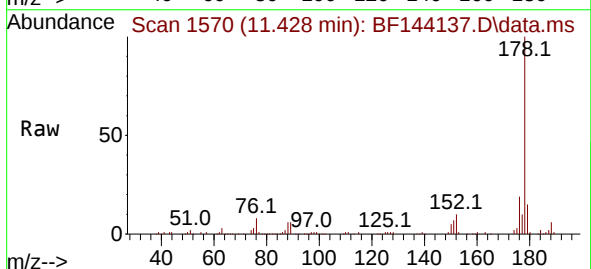
Tgt Ion:178 Resp: 89431

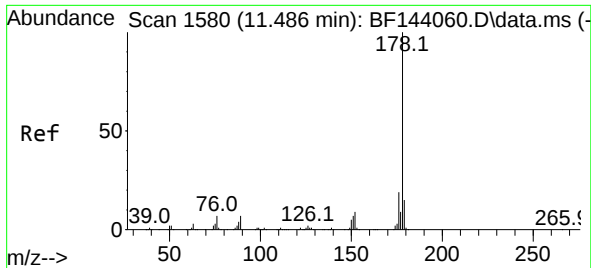
Ion Ratio Lower Upper

178 100

176 18.8 16.3 24.5

179 15.1 12.6 18.8





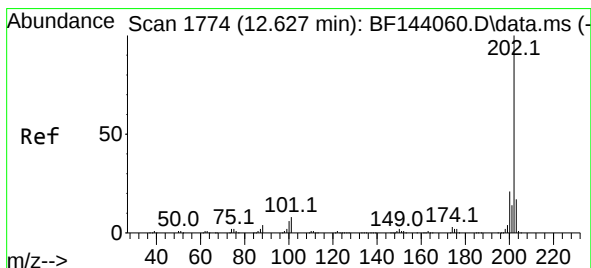
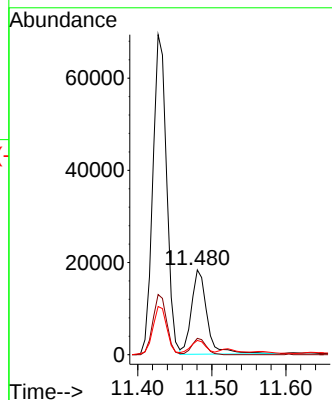
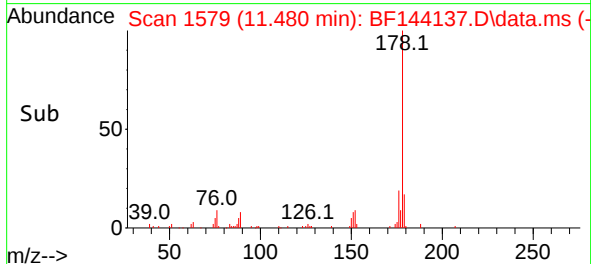
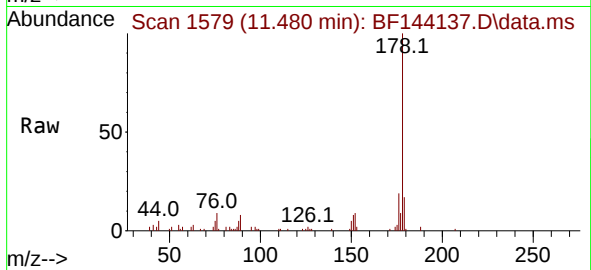
#72
 Anthracene
 Concen: 3.225 ng
 RT: 11.480 min Scan# 11480
 Delta R.T. -0.006 min
 Lab File: BF144137.D
 Acq: 29 Oct 2025 19:30

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-102825

Tgt Ion:178 Resp: 2672
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.0 22.4
 179 16.9 11.8 17.6

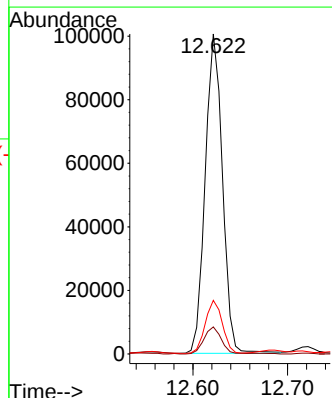
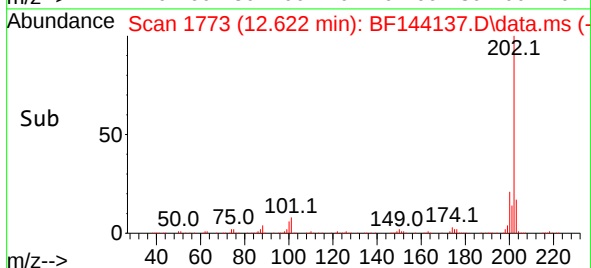
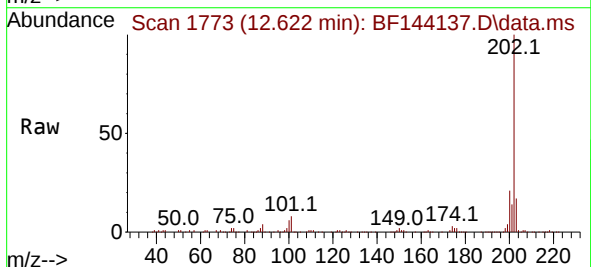
Manual Integrations
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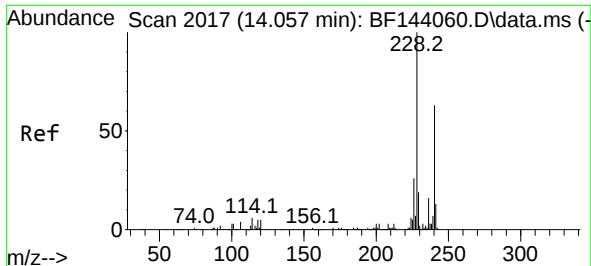
Reviewed By :Rahul Chavli 10/30/2025
 Supervised By :Jagrut Upadhyay 10/30/2025



#75
 Fluoranthene
 Concen: 14.301 ng
 RT: 12.622 min Scan# 1773
 Delta R.T. -0.006 min
 Lab File: BF144137.D
 Acq: 29 Oct 2025 19:30

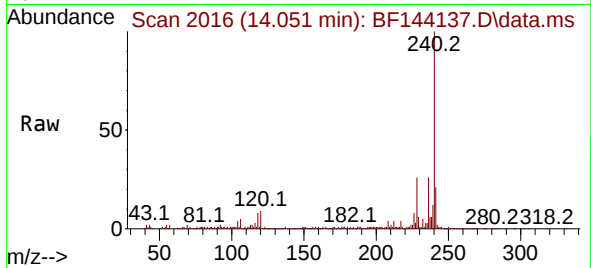
Tgt Ion:202 Resp: 126746
 Ion Ratio Lower Upper
 202 100
 101 8.4 0.0 27.7
 203 16.8 0.0 37.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF144137.D
Acq: 29 Oct 2025 19:30

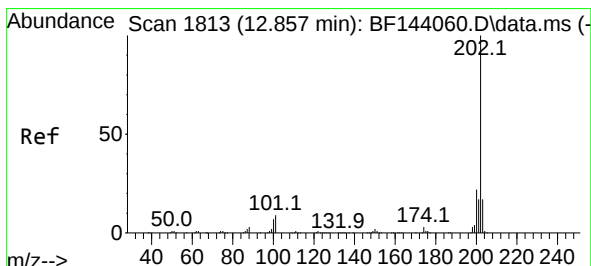
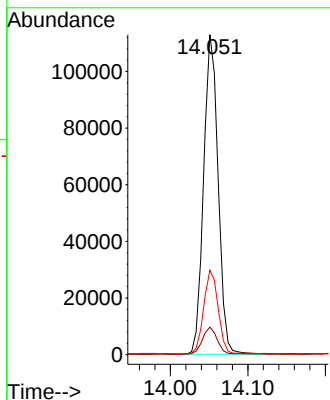
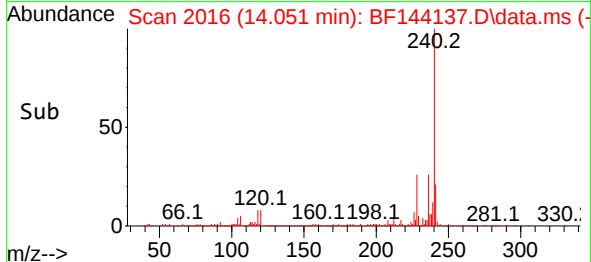
Instrument :
BNA_F
ClientSampleId :
OR-02-102825



Tgt Ion:240 Resp: 146720
Ion Ratio Lower Upper
240 100
120 8.6 6.5 9.7
236 26.4 20.1 30.1

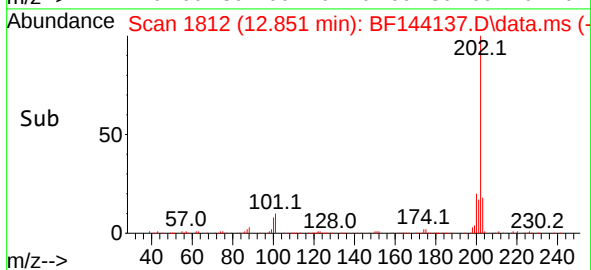
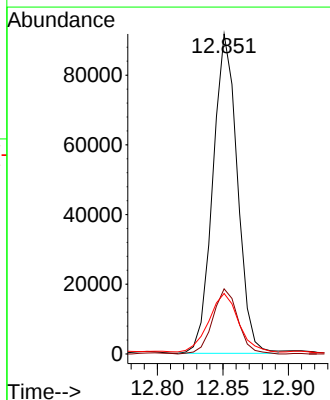
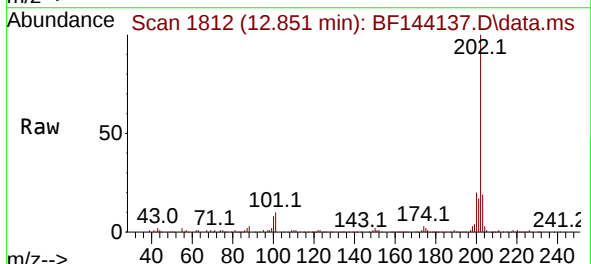
Manual Integrations
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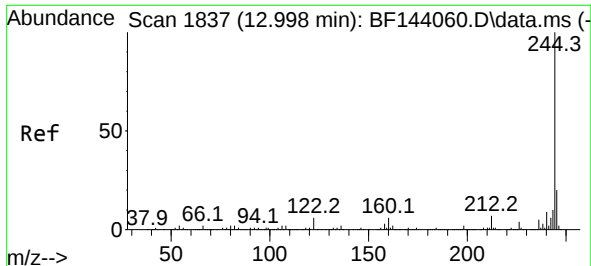
Reviewed By :Rahul Chavli 10/30/2025
Supervised By :Jagrut Upadhyay 10/30/2025



#78
Pyrene
Concen: 11.306 ng
RT: 12.851 min Scan# 1812
Delta R.T. -0.006 min
Lab File: BF144137.D
Acq: 29 Oct 2025 19:30

Tgt Ion:202 Resp: 119262
Ion Ratio Lower Upper
202 100
200 20.3 17.2 25.8
203 18.9 13.5 20.3





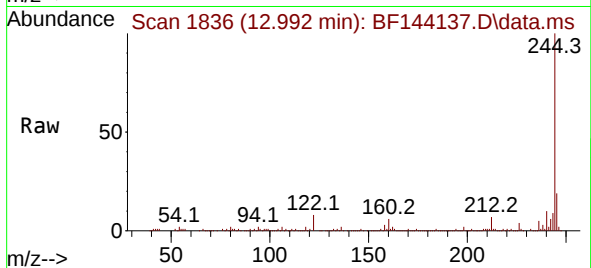
#79
 Terphenyl-d14
 Concen: 22.691 ng
 RT: 12.992 min Scan# 1836
 Delta R.T. -0.006 min
 Lab File: BF144137.D
 Acq: 29 Oct 2025 19:30

Instrument :

BNA_F

ClientSampleId :

OR-02-102825



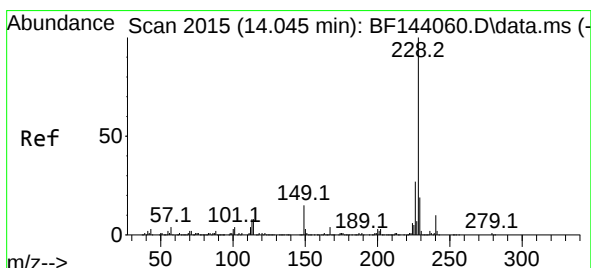
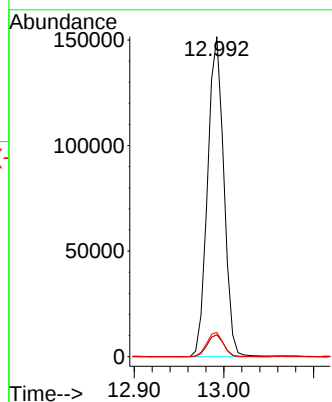
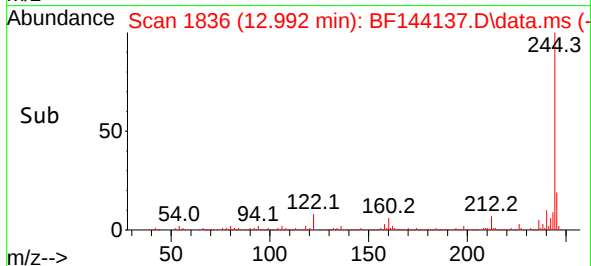
Tgt Ion:244 Resp: 190438
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.6
 122 7.6 4.9 7.3

Manual Integrations

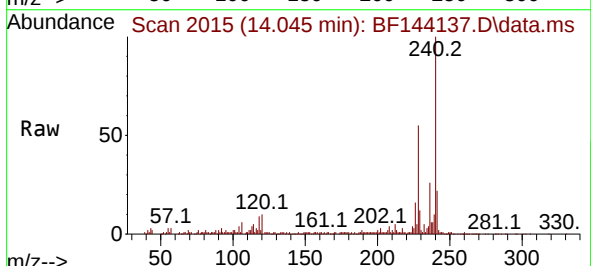
APPROVED

Reviewed By :Rahul Chavli 10/30/2025

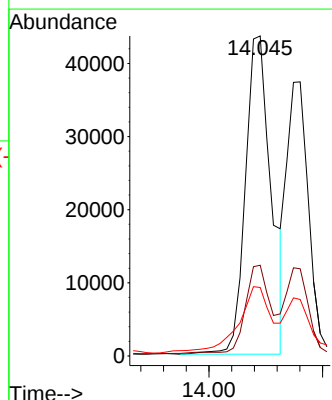
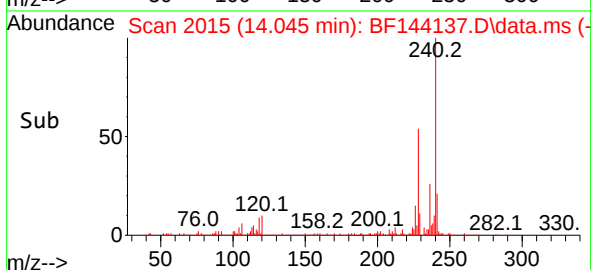
Supervised By :Jagrut Upadhyay 10/30/2025

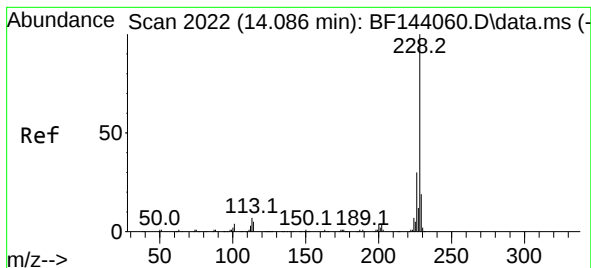


#81
 Benzo(a)anthracene
 Concen: 6.877 ng
 RT: 14.045 min Scan# 2015
 Delta R.T. 0.000 min
 Lab File: BF144137.D
 Acq: 29 Oct 2025 19:30



Tgt Ion:228 Resp: 68187
 Ion Ratio Lower Upper
 228 100
 226 28.3 21.4 32.2
 229 21.4 15.3 22.9





#83

Chrysene

Concen: 5.263 ng

RT: 14.080 min Scan# 2022

Delta R.T. -0.006 min

Lab File: BF144137.D

Acq: 29 Oct 2025 19:30

Instrument :

BNA_F

ClientSampleId :

OR-02-102825

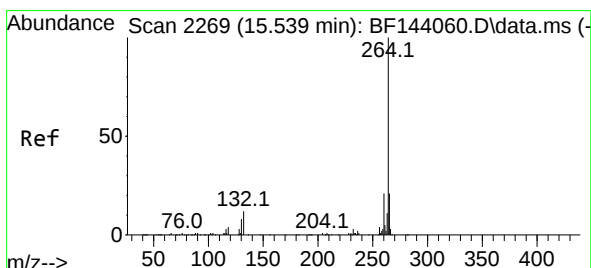
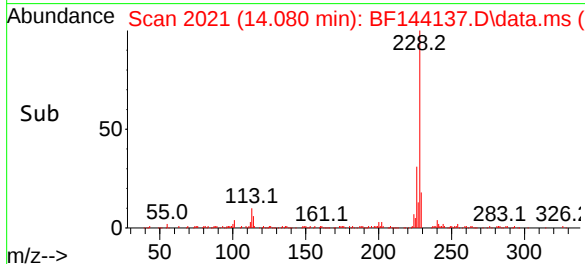
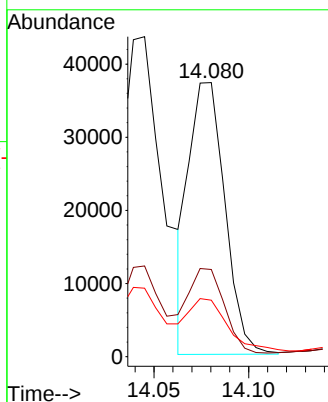
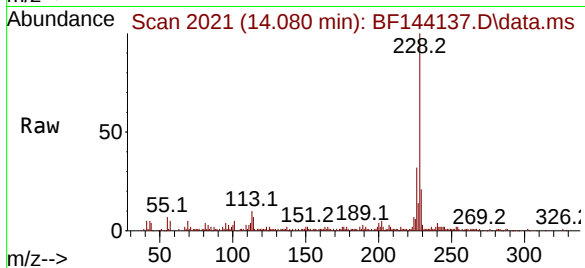
Tgt Ion:	228	Resp:	48974
Ion Ratio	Lower	Upper	
228	100		
226	31.8	23.8	35.6
229	20.6	15.6	23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/30/2025

Supervised By :Jagrut Upadhyay 10/30/2025



#86

Perylene-d12

Concen: 20.000 ng

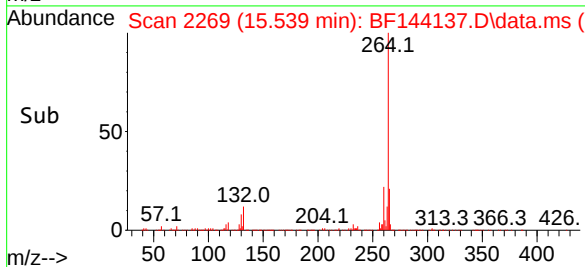
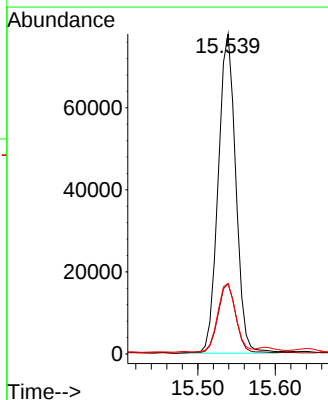
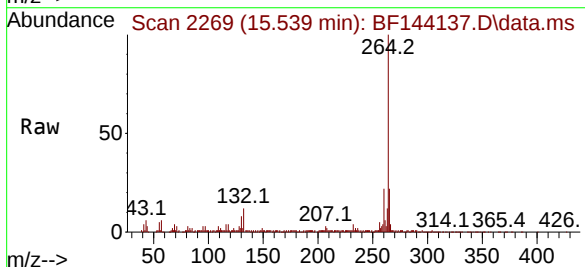
RT: 15.539 min Scan# 2269

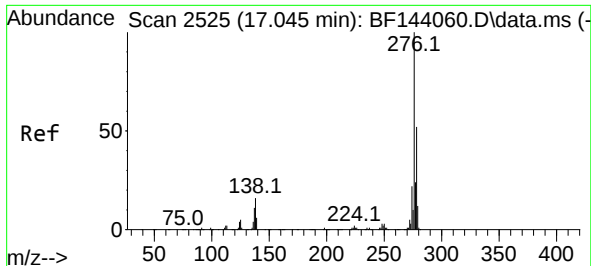
Delta R.T. 0.000 min

Lab File: BF144137.D

Acq: 29 Oct 2025 19:30

Tgt Ion:	264	Resp:	122941
Ion Ratio	Lower	Upper	
264	100		
260	22.0	17.0	25.4
265	22.0	16.6	24.8





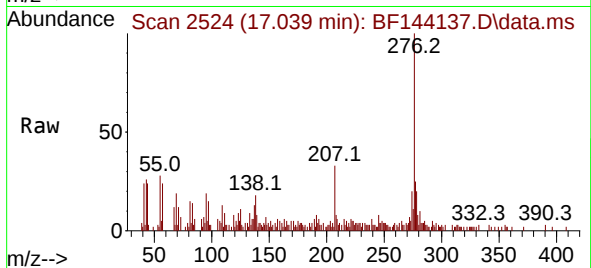
#87
Indeno(1,2,3-cd)pyrene
Concen: 2.261 ng
RT: 17.039 min Scan# 2108
Delta R.T. -0.006 min
Lab File: BF144137.D
Acq: 29 Oct 2025 19:30

Instrument :

BNA_F

ClientSampleId :

OR-02-102825



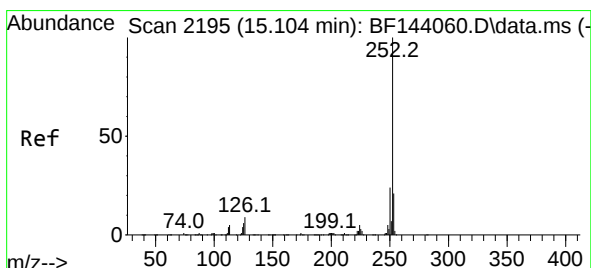
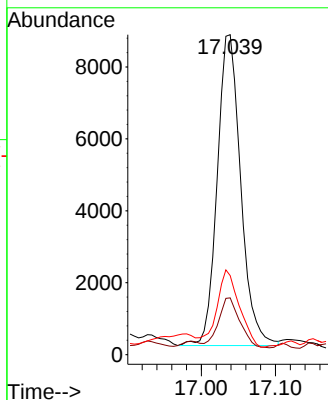
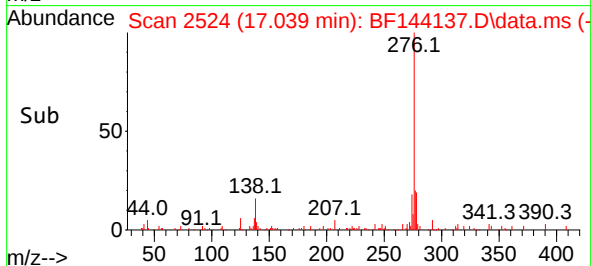
Tgt Ion: 276 Resp: 1908
Ion Ratio Lower Upper
276 100
138 14.6 13.0 19.6
277 23.6 19.4 29.0

Manual Integrations

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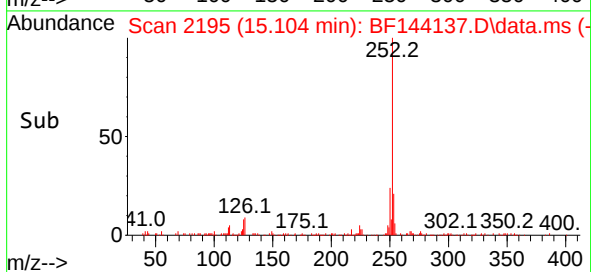
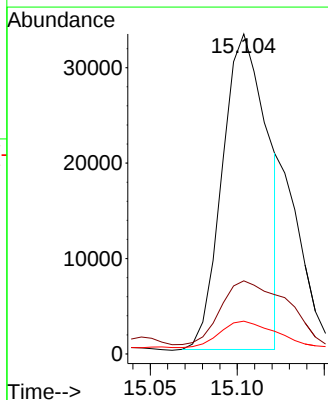
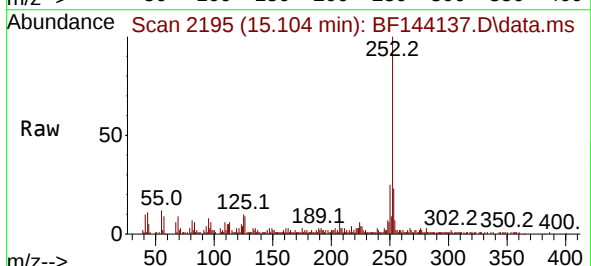
Reviewed By :Rahul Chavli 10/30/2025

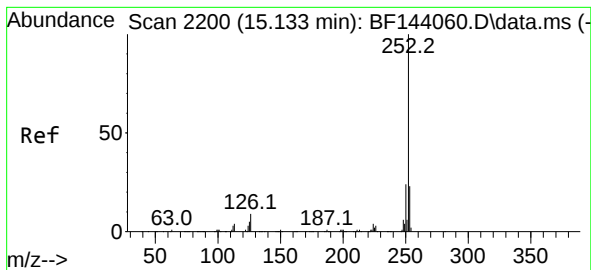
Supervised By :Jagrut Upadhyay 10/30/2025



#88
Benzo(b)fluoranthene
Concen: 8.619 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF144137.D
Acq: 29 Oct 2025 19:30

Tgt Ion: 252 Resp: 59901
Ion Ratio Lower Upper
252 100
253 22.8 17.2 25.8
125 10.3 5.0 7.6#





#89

Benzo(k)fluoranthene

Concen: 2.835 ng m

RT: 15.121 min Scan# 2198

Delta R.T. -0.012 min

Lab File: BF144137.D

Acq: 29 Oct 2025 19:30

Instrument :

BNA_F

ClientSampleId :

OR-02-102825

Tgt Ion:252 Resp: 18179

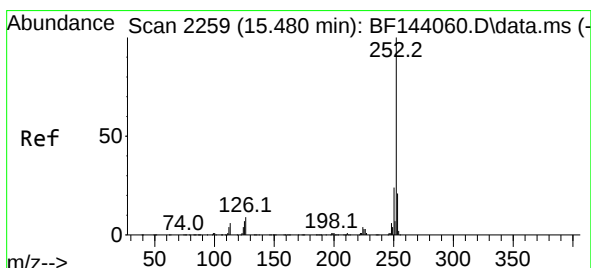
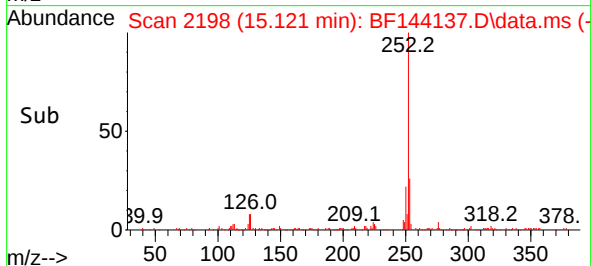
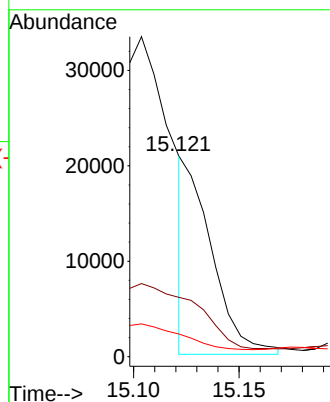
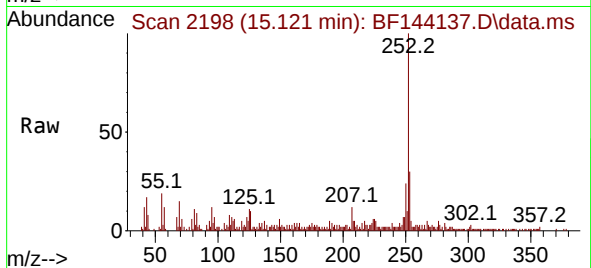
Ion	Ratio	Lower	Upper
252	100		
253	29.5	17.4	26.2
125	11.3	4.9	7.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/30/2025

Supervised By :Jagrut Upadhyay 10/30/2025



#90

Benzo(a)pyrene

Concen: 6.575 ng

RT: 15.474 min Scan# 2258

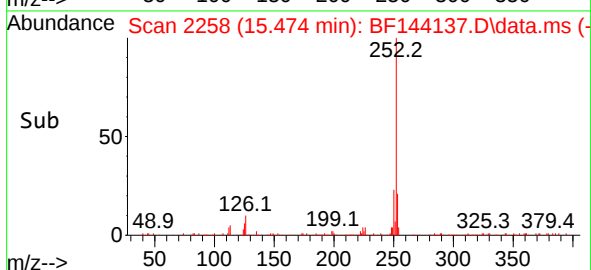
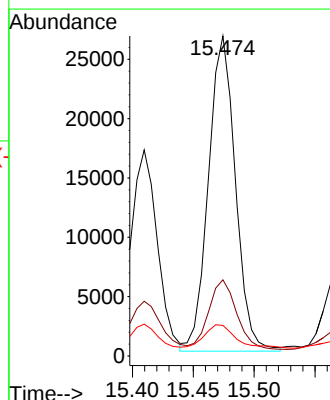
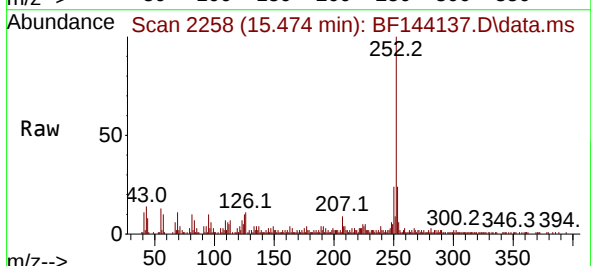
Delta R.T. -0.006 min

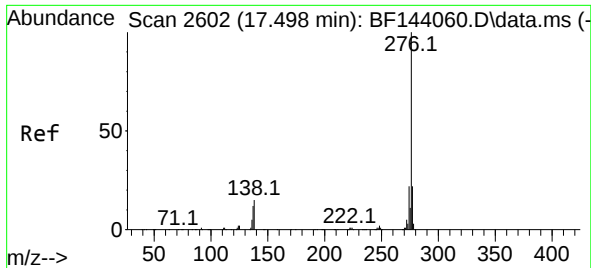
Lab File: BF144137.D

Acq: 29 Oct 2025 19:30

Tgt Ion:252 Resp: 40997

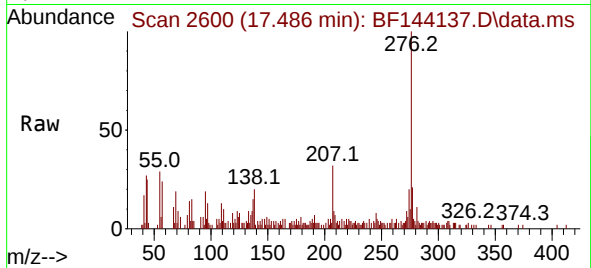
Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	9.6	5.4	8.2





#92
 Benzo(g,h,i)perylene
 Concen: 2.640 ng
 RT: 17.486 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF144137.D
 Acq: 29 Oct 2025 19:30

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-102825



Tgt Ion:	276	Resp:	17734
Ion Ratio	Lower	Upper	
276	100		
277	20.8	17.9	26.9
138	19.6	12.0	18.0

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/30/2025
 Supervised By :Jagrut Upadhyay 10/30/2025

