

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111725\
 Data File : BF144268.D
 Acq On : 17 Nov 2025 15:29
 Operator : RC/JU
 Sample : Q3646-01 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-11142025

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/18/2025
 Supervised By :Sohil Jodhani 11/18/2025

Quant Time: Nov 17 15:57:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	50589	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	157750	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	73940	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	122585	20.000	ng	0.00
76) Chrysene-d12	14.045	240	100756	20.000	ng	0.00
86) Perylene-d12	15.527	264	86495	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	58415	18.070	ng	0.00
7) Phenol-d6	6.498	99	64664	17.653	ng	0.00
23) Nitrobenzene-d5	7.428	82	34790	12.737	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	16509	17.793	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	76544	15.289	ng	0.00
79) Terphenyl-d14	12.980	244	82061	12.937	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.422	178	69871	11.448	ng	98
72) Anthracene	11.474	178	16235m	2.616	ng	
75) Fluoranthene	12.616	202	98394	15.606	ng	98
78) Pyrene	12.845	202	119114	14.662	ng	98
81) Benzo(a)anthracene	14.039	228	57978m	8.303	ng	
83) Chrysene	14.068	228	45376	7.039	ng	96
87) Indeno(1,2,3-cd)pyrene	17.027	276	12889	2.076	ng	97
88) Benzo(b)fluoranthene	15.098	252	36344m	7.391	ng	
89) Benzo(k)fluoranthene	15.110	252	14758m	3.206	ng	
90) Benzo(a)pyrene	15.462	252	29287	6.456	ng	# 90
92) Benzo(g,h,i)perylene	17.480	276	12500	2.538	ng	# 93

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

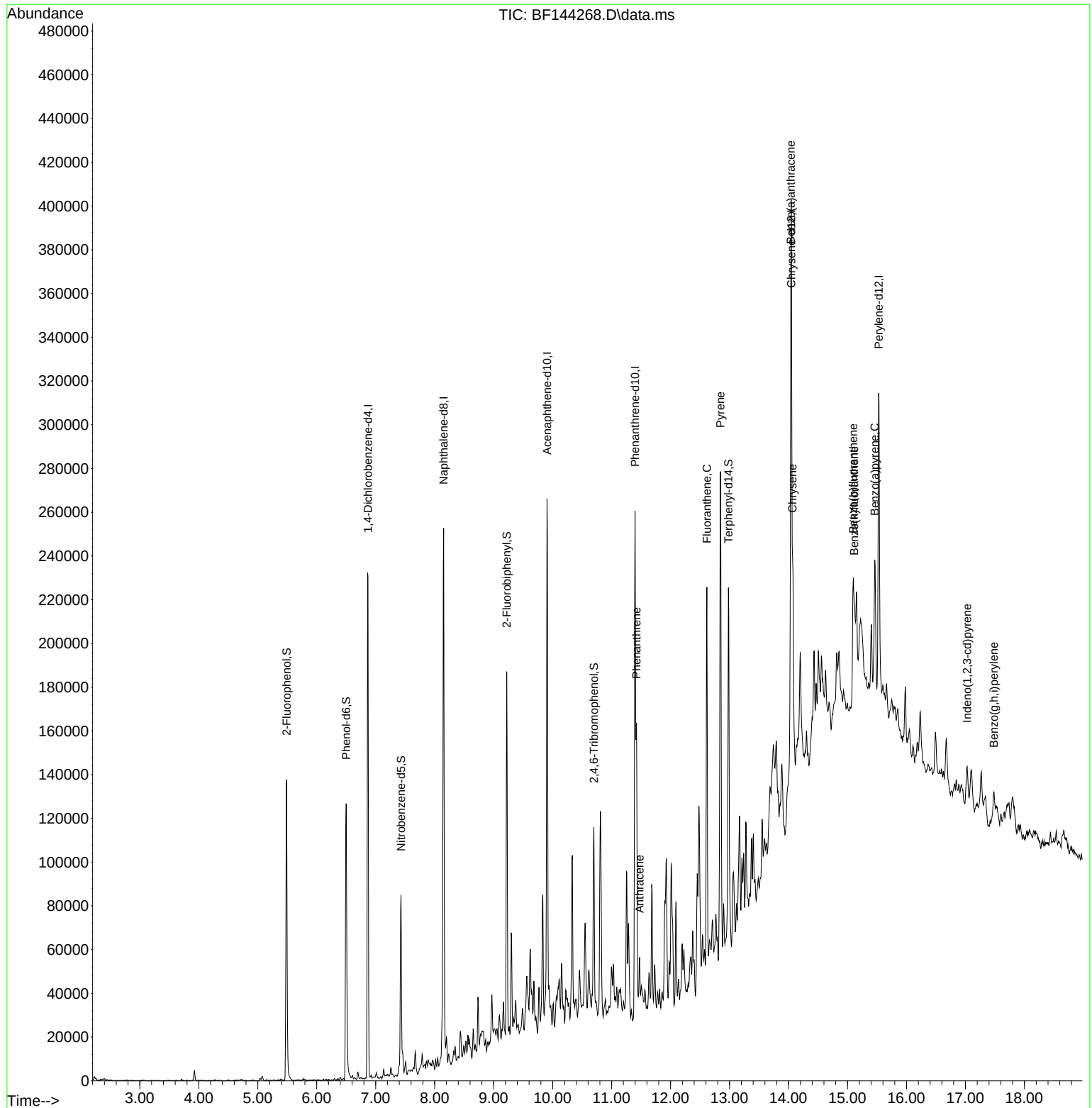
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111725\
Data File : BF144268.D
Acq On : 17 Nov 2025 15:29
Operator : RC/JU
Sample : Q3646-01 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

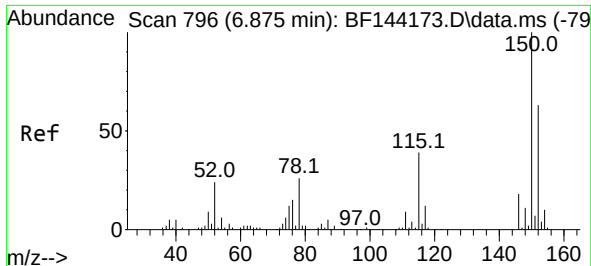
Instrument :
BNA_F
ClientSampleId :
SU-03-11142025

Quant Time: Nov 17 15:57:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 05 18:37:33 2025
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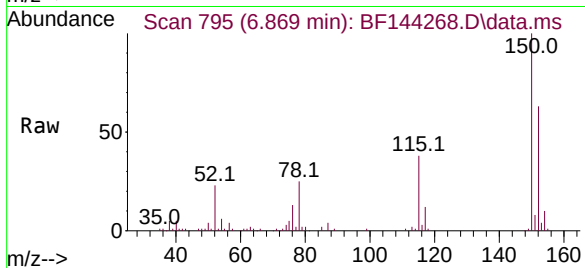
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 796
Delta R.T. -0.006 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

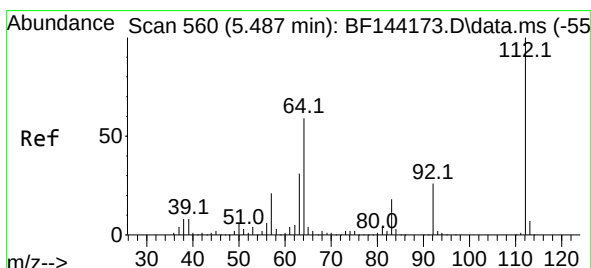
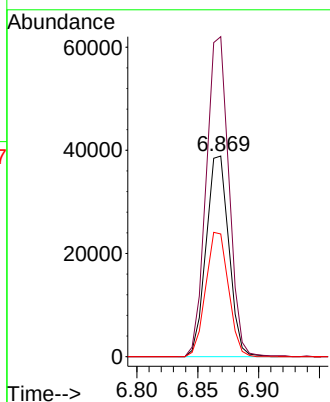
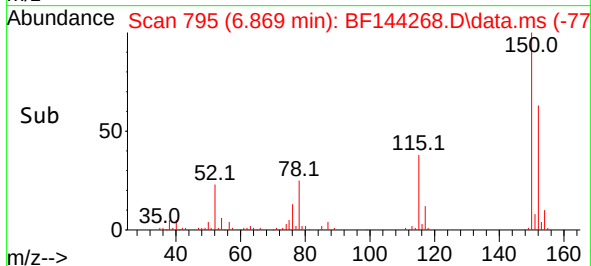
Instrument :
BNA_F
ClientSampleId :
SU-03-11142025



Tgt Ion:152 Resp: 50589
Ion Ratio Lower Upper
152 100
150 159.5 127.4 191.0
115 61.1 49.5 74.3

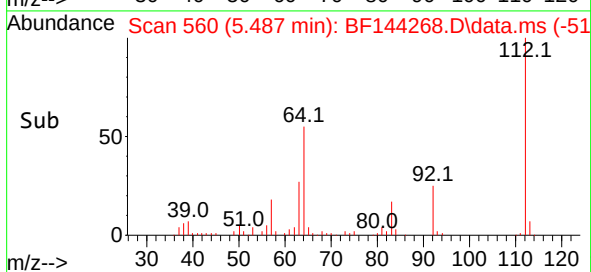
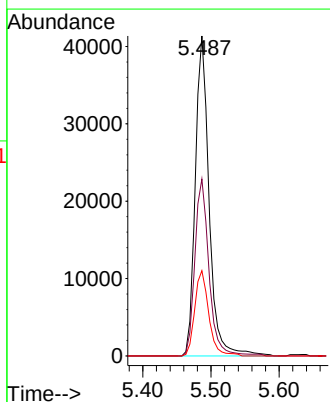
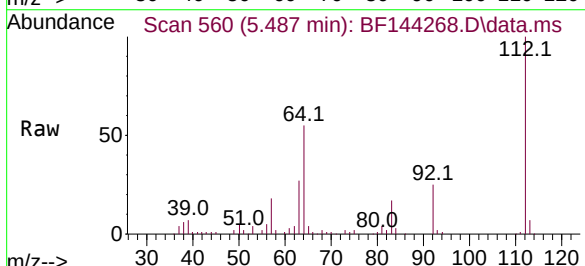
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#5
2-Fluorophenol
Concen: 18.070 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

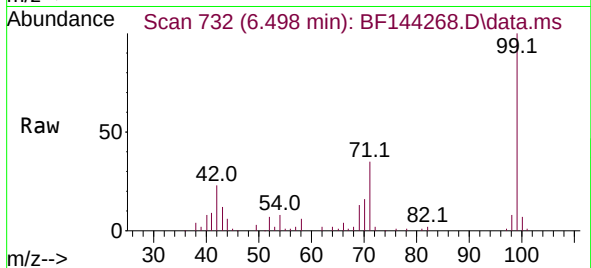
Tgt Ion:112 Resp: 58415
Ion Ratio Lower Upper
112 100
64 55.3 47.2 70.8
63 26.6 24.4 36.6





#7
Phenol-d6
Concen: 17.653 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

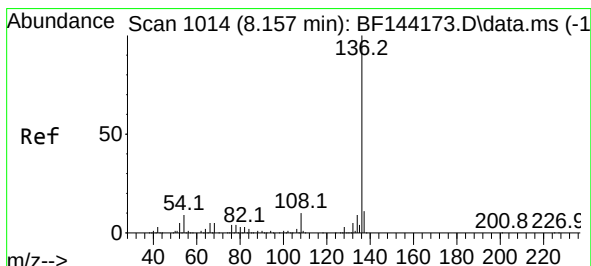
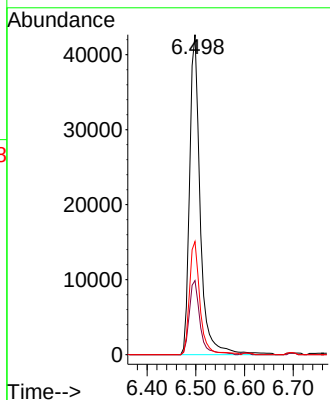
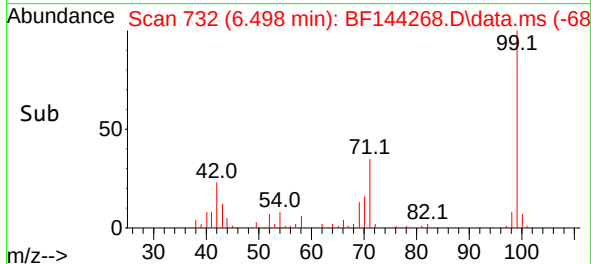
Instrument :
BNA_F
ClientSampleId :
SU-03-11142025



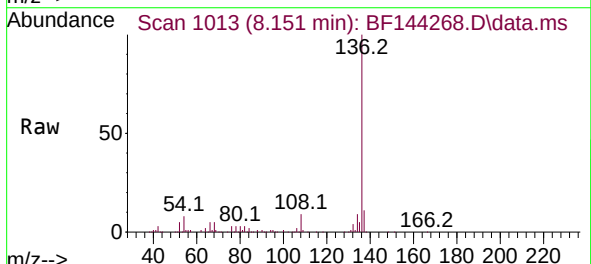
Tgt Ion: 99 Resp: 64664
Ion Ratio Lower Upper
99 100
42 23.1 20.9 31.3
71 35.3 31.4 47.2

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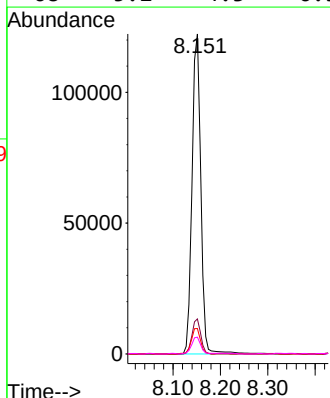
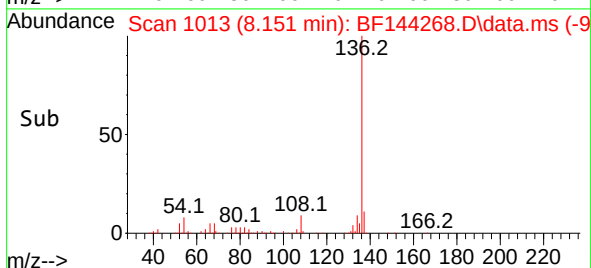
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

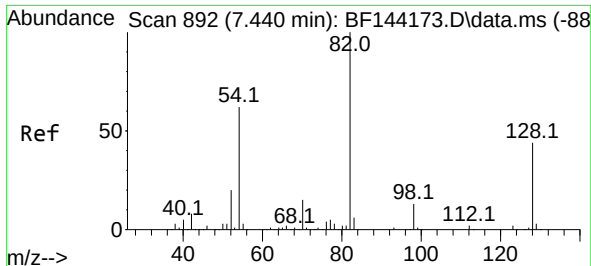


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1013
Delta R.T. -0.006 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29



Tgt Ion:136 Resp: 157750
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 7.9 7.0 10.6
68 5.2 4.3 6.5





#23

Nitrobenzene-d5

Concen: 12.737 ng

RT: 7.428 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF144268.D

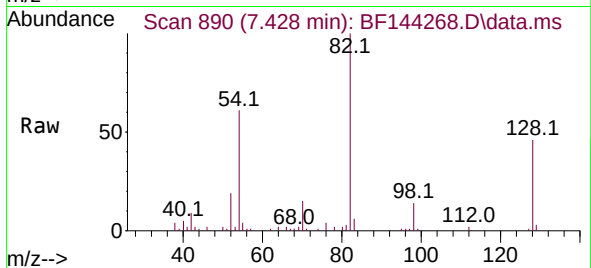
Acq: 17 Nov 2025 15:29

Instrument :

BNA_F

ClientSampleId :

SU-03-11142025



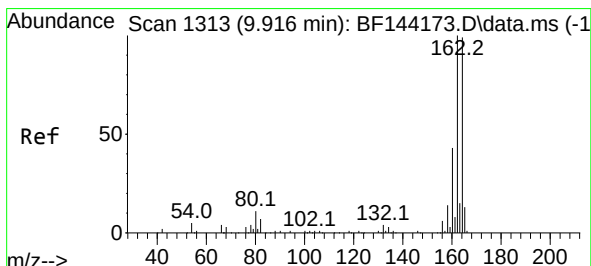
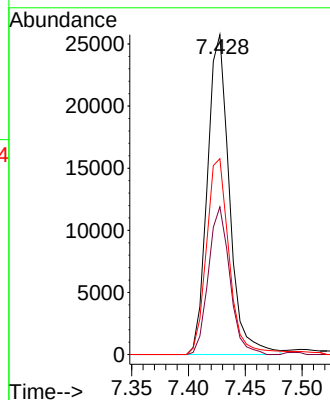
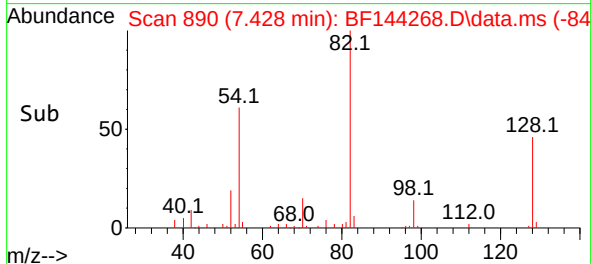
Tgt Ion: 82 Resp: 34790

Ion	Ratio	Lower	Upper
82	100		
128	46.2	34.7	52.1
54	61.2	49.5	74.3

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#39

Acenaphthene-d10

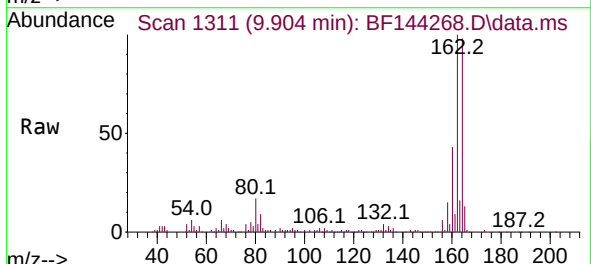
Concen: 20.000 ng

RT: 9.904 min Scan# 1311

Delta R.T. -0.012 min

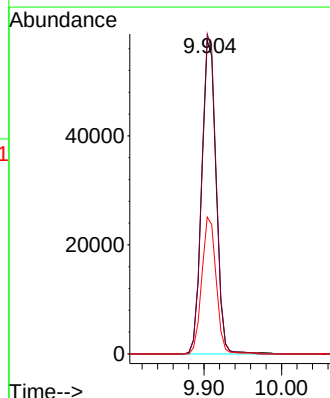
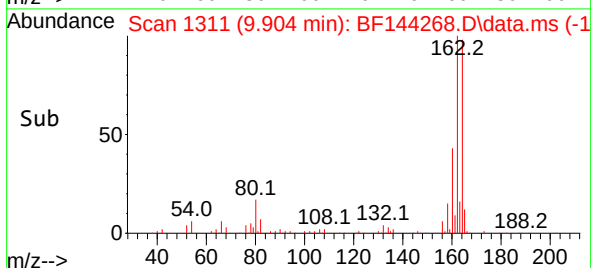
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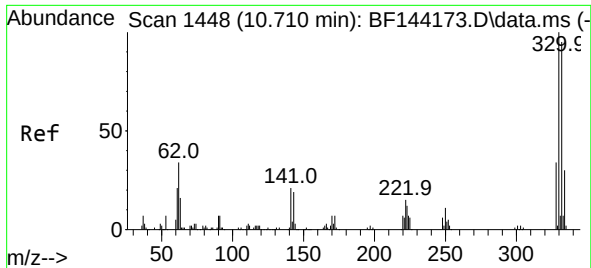
Acq: 17 Nov 2025 15:29



Tgt Ion:164 Resp: 73940

Ion	Ratio	Lower	Upper
164	100		
162	102.0	81.1	121.7
160	43.6	34.5	51.7





#42
2,4,6-Tribromophenol
Concen: 17.793 ng
RT: 10.698 min Scan# 1446
Delta R.T. -0.006 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

Instrument :

BNA_F

ClientSampleId :

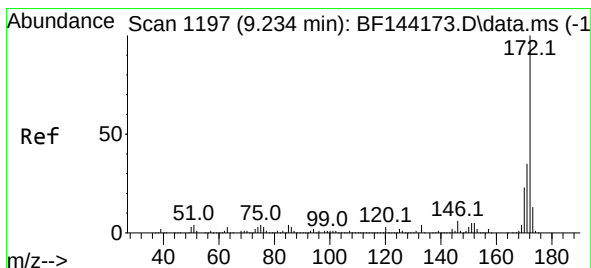
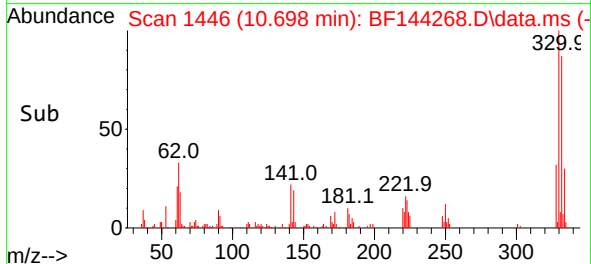
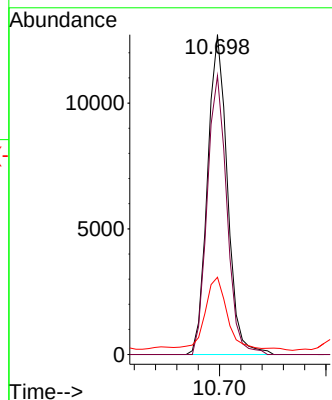
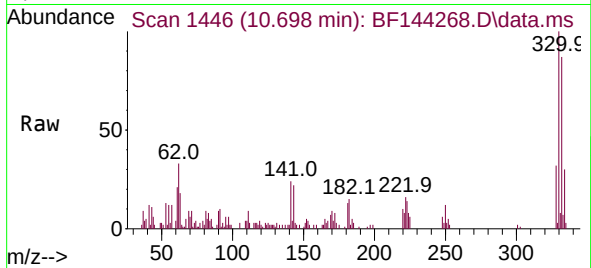
SU-03-11142025

Tgt Ion:330 Resp: 16509
Ion Ratio Lower Upper
330 100
332 85.7 76.7 115.1
141 26.3 17.8 26.8

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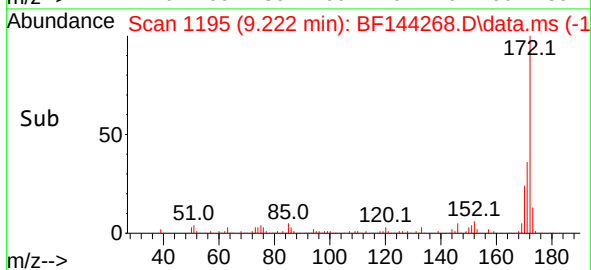
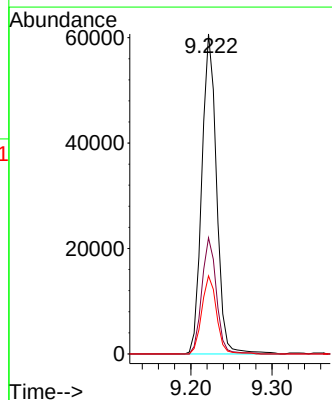
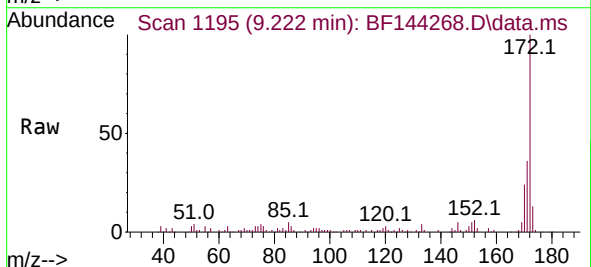
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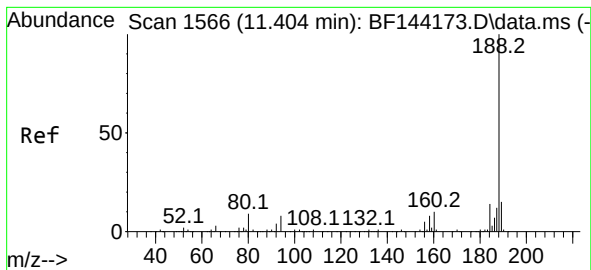
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#45
2-Fluorobiphenyl
Concen: 15.289 ng
RT: 9.222 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

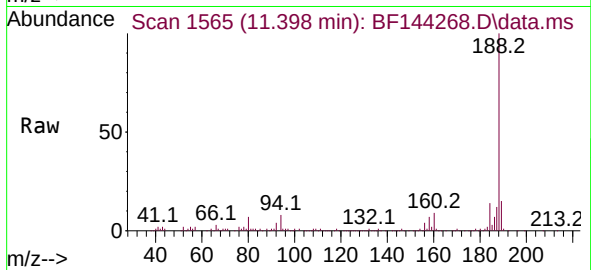
Tgt Ion:172 Resp: 76544
Ion Ratio Lower Upper
172 100
171 36.3 28.1 42.1
170 24.4 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

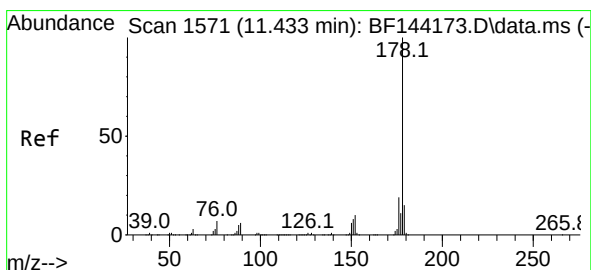
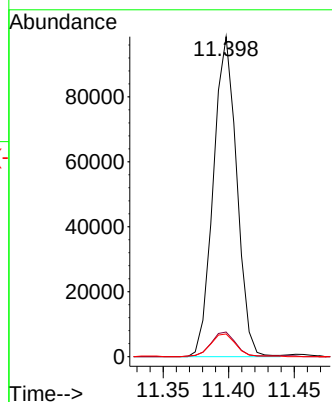
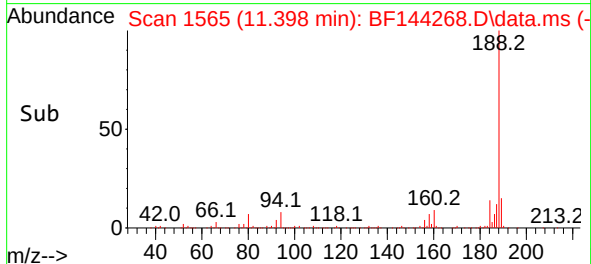
Instrument :
BNA_F
ClientSampleId :
SU-03-11142025



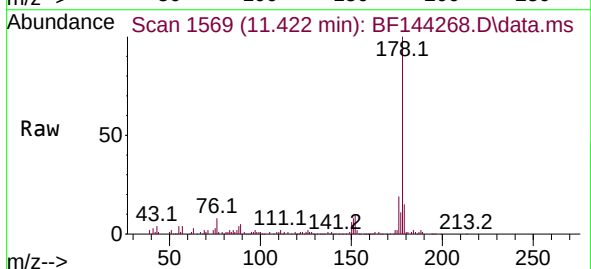
Tgt Ion:188 Resp: 122585
Ion Ratio Lower Upper
188 100
94 7.7 6.2 9.2
80 7.1 6.9 10.3

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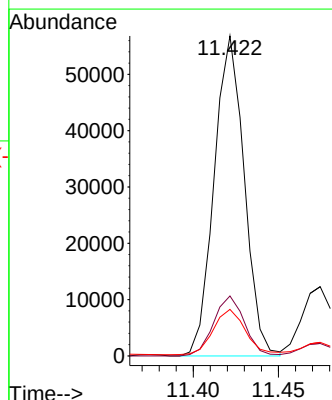
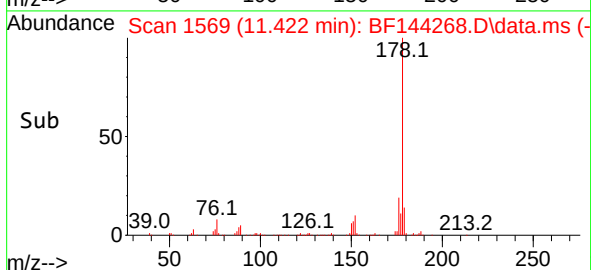
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

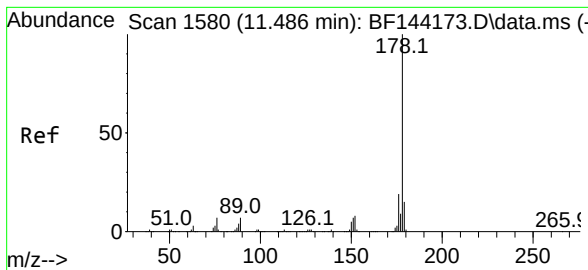


#71
Phenanthrene
Concen: 11.448 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29



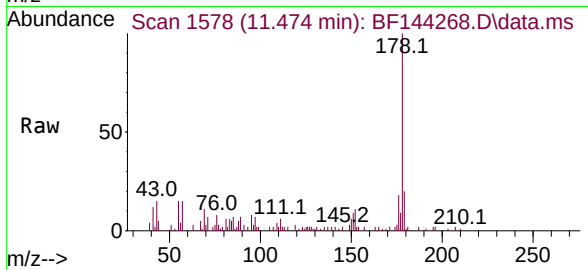
Tgt Ion:178 Resp: 69871
Ion Ratio Lower Upper
178 100
176 18.7 15.5 23.3
179 14.5 12.2 18.4





#72
 Anthracene
 Concen: 2.616 ng m
 RT: 11.474 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF144268.D
 Acq: 17 Nov 2025 15:29

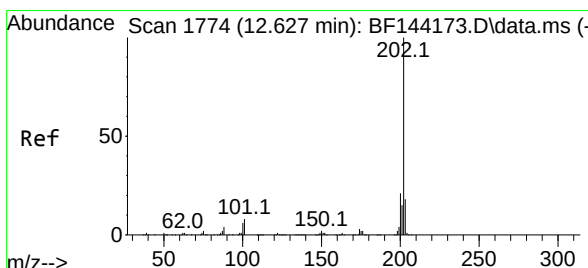
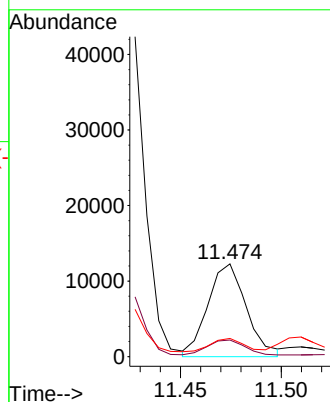
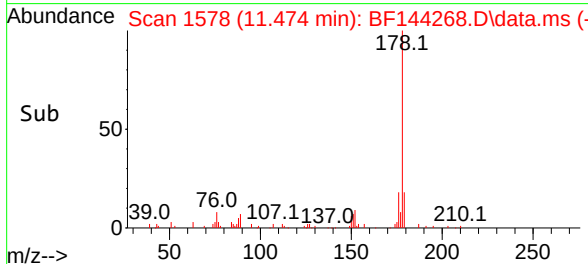
Instrument :
 BNA_F
 ClientSampleId :
 SU-03-11142025



Tgt Ion:178 Resp: 16235
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.3 22.9
 179 19.6 12.0 18.0

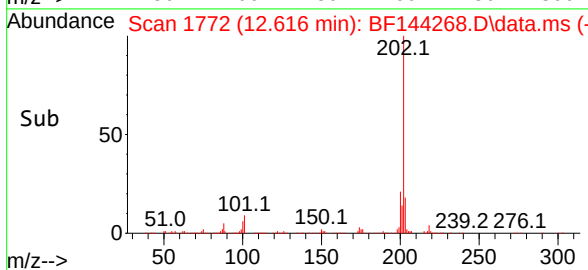
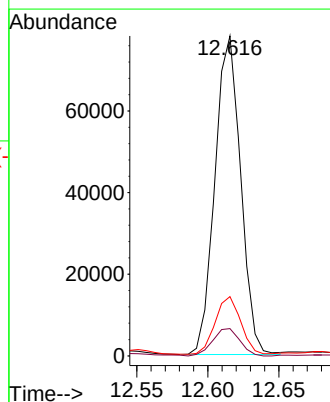
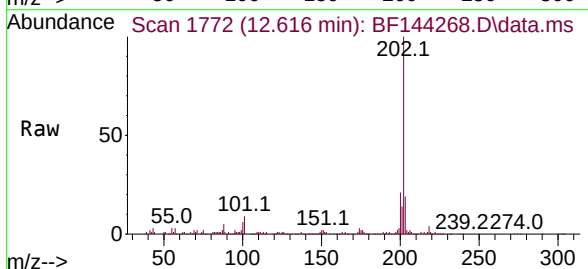
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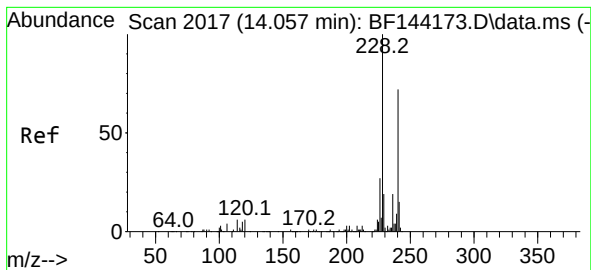
Reviewed By :Jagrut Upadhyay 11/18/2025
 Supervised By :Sohil Jodhani 11/18/2025



#75
 Fluoranthene
 Concen: 15.606 ng
 RT: 12.616 min Scan# 1772
 Delta R.T. -0.006 min
 Lab File: BF144268.D
 Acq: 17 Nov 2025 15:29

Tgt Ion:202 Resp: 98394
 Ion Ratio Lower Upper
 202 100
 101 8.5 0.0 27.9
 203 18.5 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF144268.D

Acq: 17 Nov 2025 15:29

Instrument :

BNA_F

ClientSampleId :

SU-03-11142025

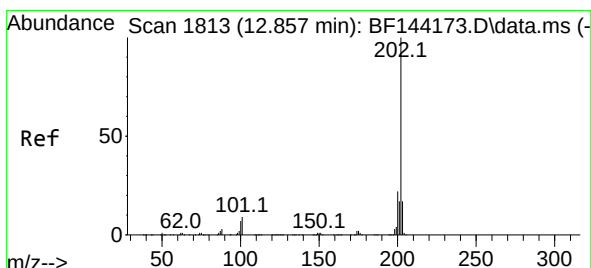
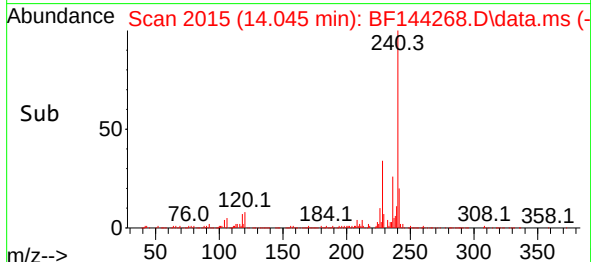
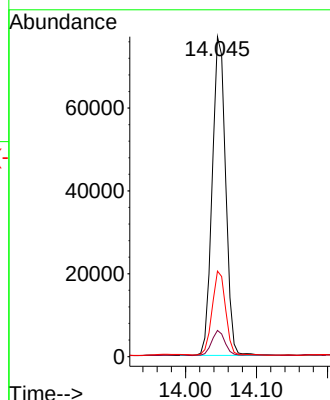
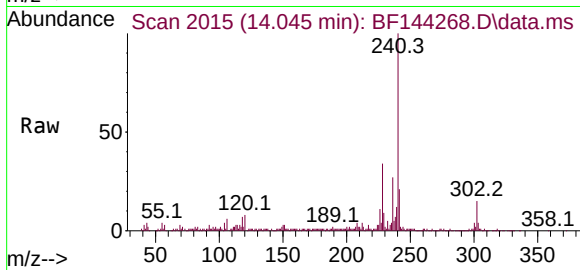
Tgt Ion:240 Resp: 100756

Ion	Ratio	Lower	Upper
240	100		
120	8.2	6.6	10.0
236	26.7	21.4	32.2

Manual Integrations

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#78

Pyrene

Concen: 14.662 ng

RT: 12.845 min Scan# 1811

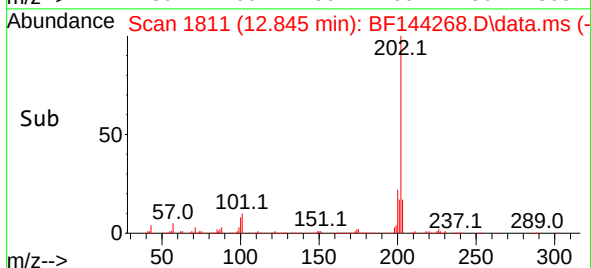
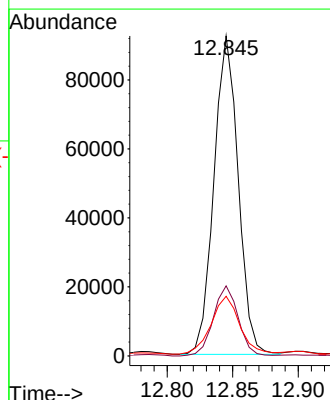
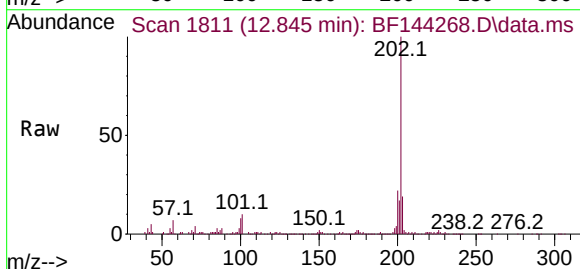
Delta R.T. -0.006 min

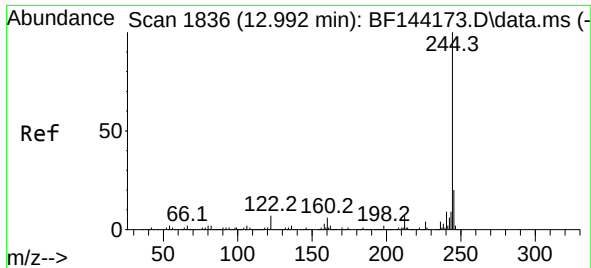
Lab File: BF144268.D

Acq: 17 Nov 2025 15:29

Tgt Ion:202 Resp: 119114

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.2	25.8
203	18.6	13.7	20.5





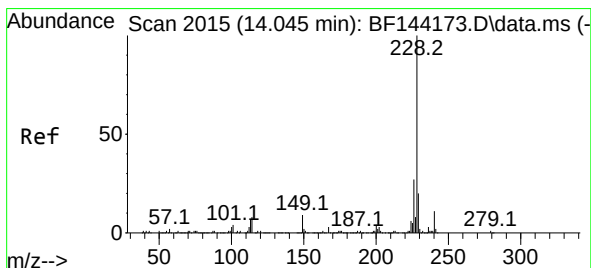
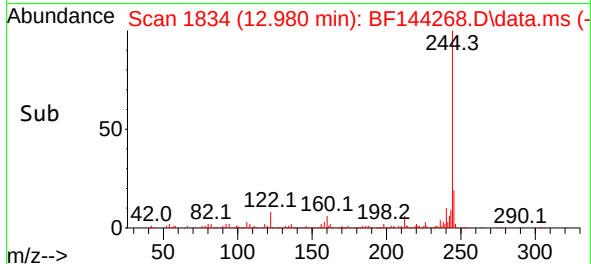
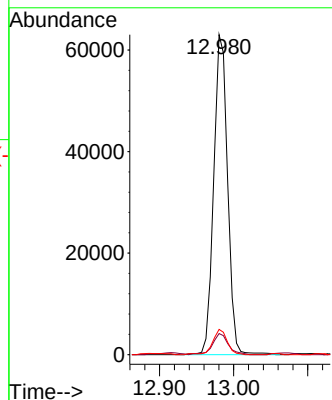
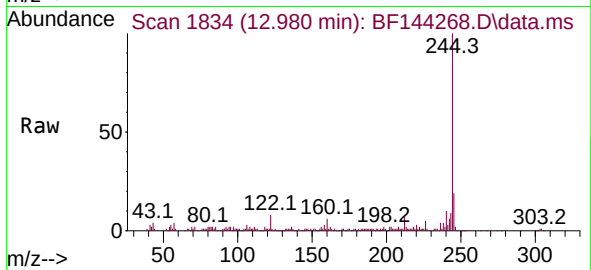
#79
 Terphenyl-d14
 Concen: 12.937 ng
 RT: 12.980 min Scan# 1836
 Delta R.T. -0.012 min
 Lab File: BF144268.D
 Acq: 17 Nov 2025 15:29

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-11142025

Tgt Ion:244 Resp: 82063
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.3 7.9
 122 7.9 5.6 8.4

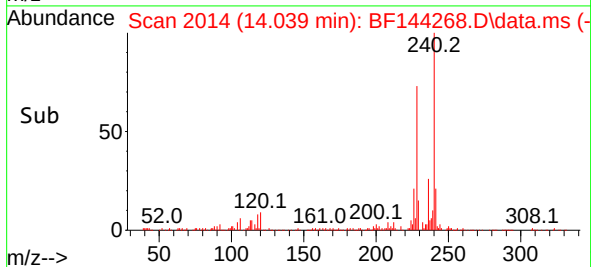
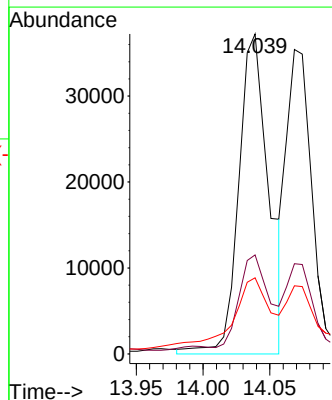
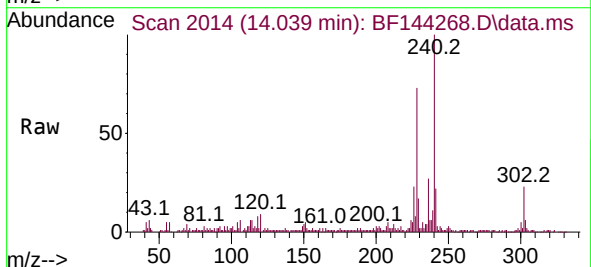
Manual Integrations
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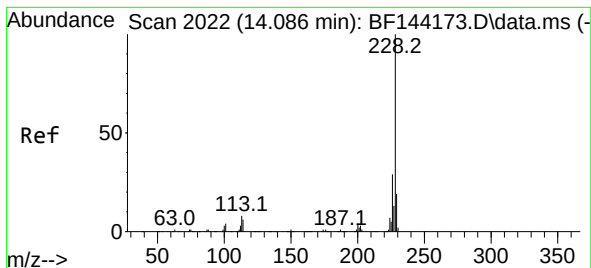
Reviewed By :Jagrut Upadhyay 11/18/2025
 Supervised By :Sohil Jodhani 11/18/2025



#81
 Benzo(a)anthracene
 Concen: 8.303 ng m
 RT: 14.039 min Scan# 2014
 Delta R.T. -0.006 min
 Lab File: BF144268.D
 Acq: 17 Nov 2025 15:29

Tgt Ion:228 Resp: 57978
 Ion Ratio Lower Upper
 228 100
 226 30.9 21.8 32.8
 229 23.8 15.8 23.6#





#83

Chrysene

Concen: 7.039 ng

RT: 14.068 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF144268.D

Acq: 17 Nov 2025 15:29

Instrument :

BNA_F

ClientSampleId :

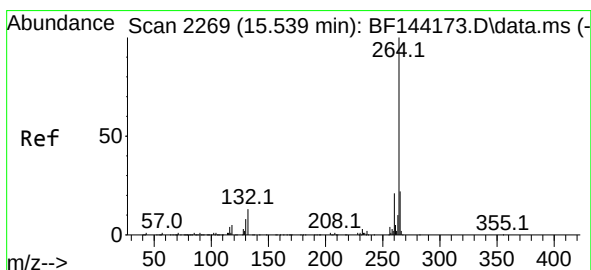
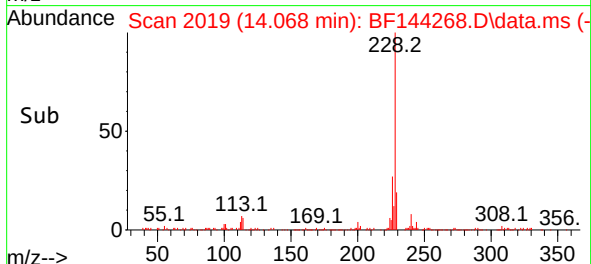
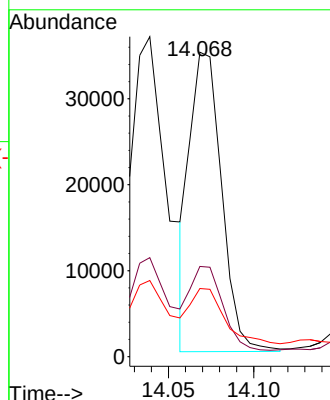
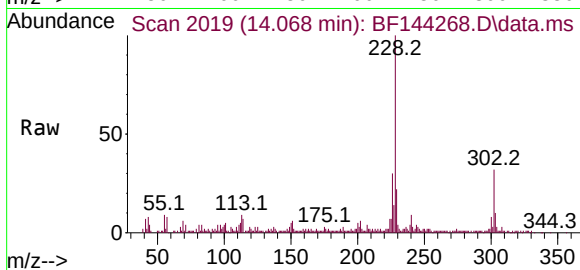
SU-03-11142025

Tgt Ion:228	Resp:	45376
Ion Ratio	Lower	Upper
228	100	
226	29.6	22.9 34.3
229	22.4	15.0 22.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#86

Perylene-d12

Concen: 20.000 ng

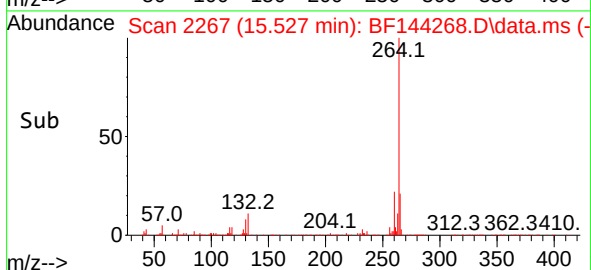
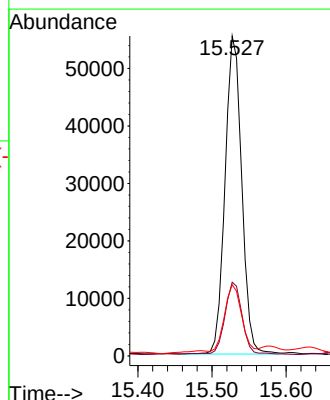
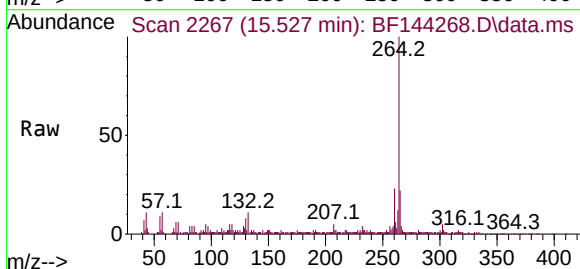
RT: 15.527 min Scan# 2267

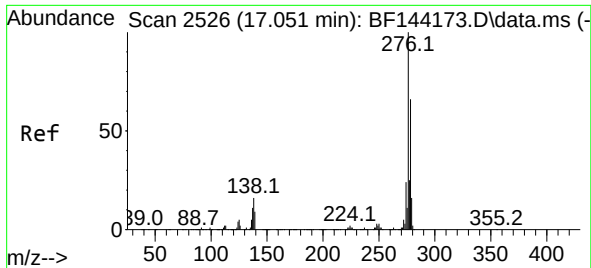
Delta R.T. -0.012 min

Lab File: BF144268.D

Acq: 17 Nov 2025 15:29

Tgt Ion:264	Resp:	86495
Ion Ratio	Lower	Upper
264	100	
260	23.0	17.1 25.7
265	22.2	17.4 26.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 2.076 ng
RT: 17.027 min Scan# 211
Delta R.T. -0.006 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

Instrument :

BNA_F

ClientSampleId :

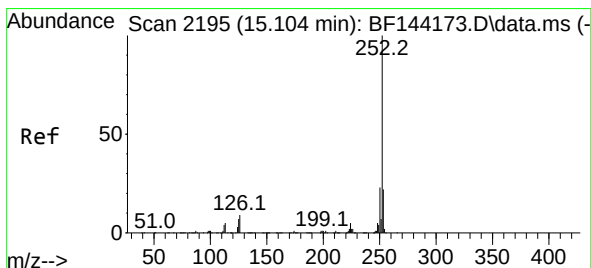
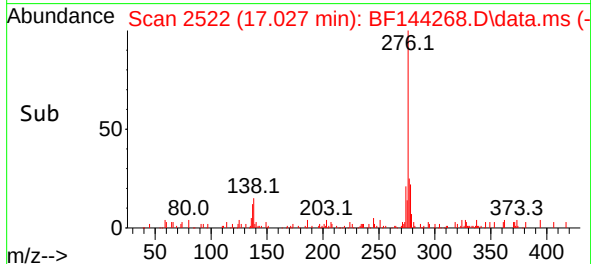
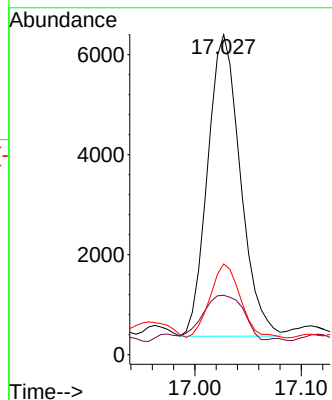
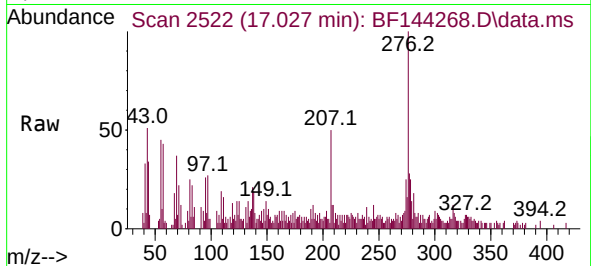
SU-03-11142025

Tgt Ion:276 Resp: 12889
Ion Ratio Lower Upper
276 100
138 18.2 13.9 20.9
277 22.7 19.8 29.6

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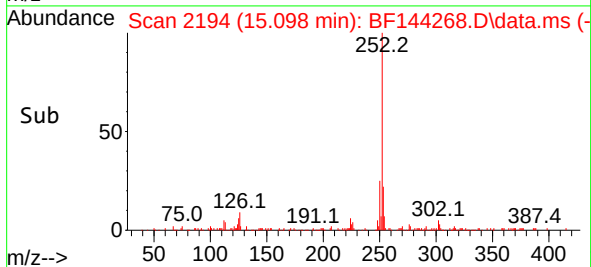
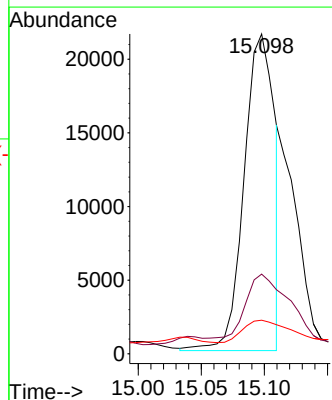
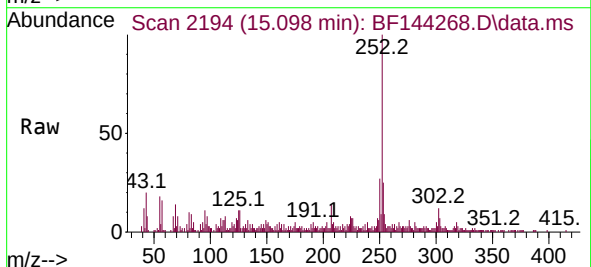
APPROVED

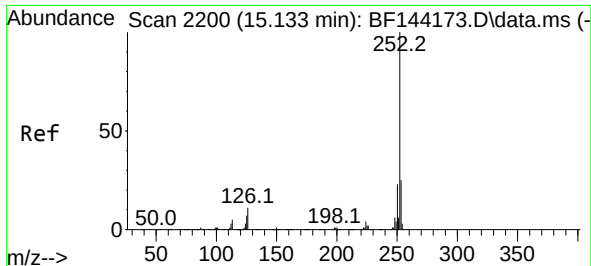
Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#88
Benzo(b)fluoranthene
Concen: 7.391 ng m
RT: 15.098 min Scan# 2194
Delta R.T. -0.000 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

Tgt Ion:252 Resp: 36344
Ion Ratio Lower Upper
252 100
253 24.9 17.4 26.2
125 10.5 5.3 7.9#





#89

Benzo(k)fluoranthene

Concen: 3.206 ng m

RT: 15.110 min Scan# 2196

Delta R.T. -0.018 min

Lab File: BF144268.D

Acq: 17 Nov 2025 15:29

Instrument :

BNA_F

ClientSampleId :

SU-03-11142025

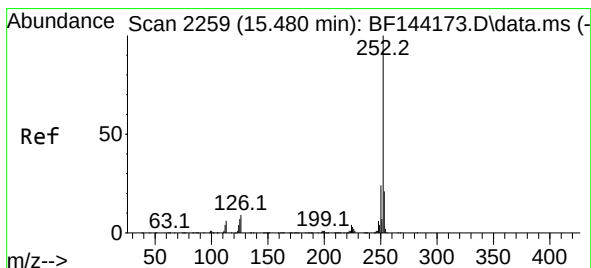
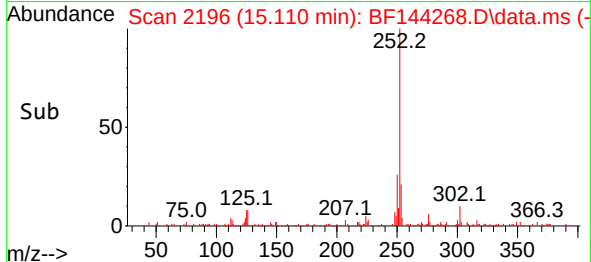
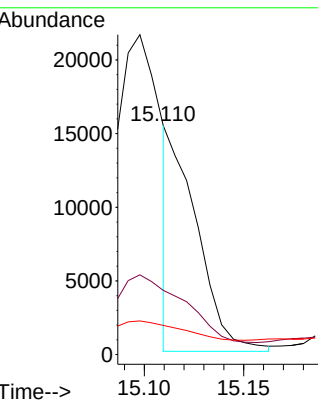
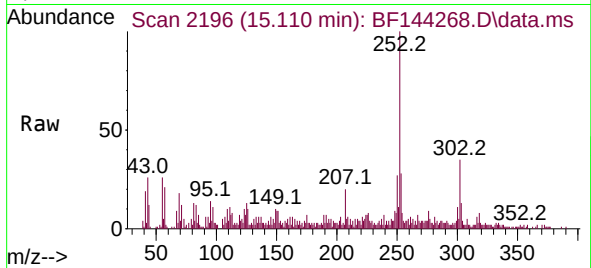
Tgt Ion:252 Resp: 14758

Ion	Ratio	Lower	Upper
252	100		
253	28.0	18.0	27.0#
125	12.7	5.4	8.2#

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025



#90

Benzo(a)pyrene

Concen: 6.456 ng

RT: 15.462 min Scan# 2256

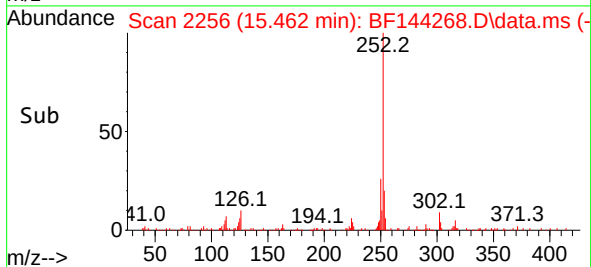
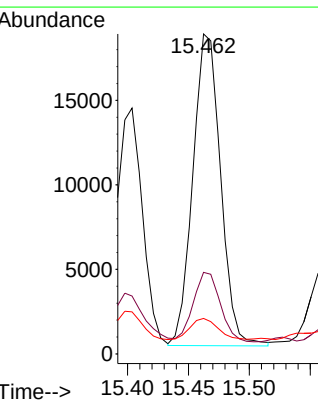
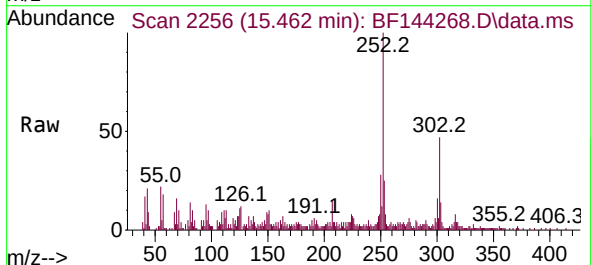
Delta R.T. -0.012 min

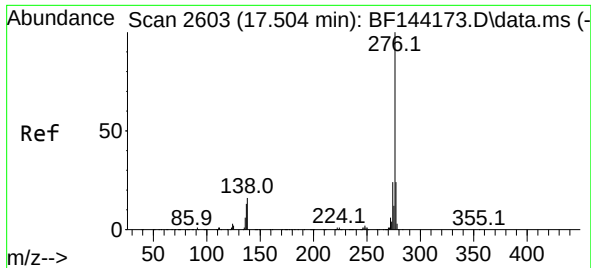
Lab File: BF144268.D

Acq: 17 Nov 2025 15:29

Tgt Ion:252 Resp: 29287

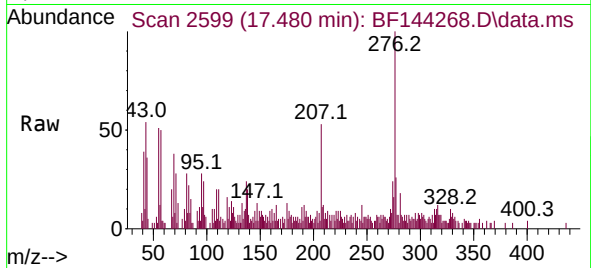
Ion	Ratio	Lower	Upper
252	100		
253	25.5	16.7	25.1#
125	11.1	5.7	8.5#





#92
Benzo(g,h,i)perylene
Concen: 2.538 ng
RT: 17.480 min Scan# 2599
Delta R.T. -0.012 min
Lab File: BF144268.D
Acq: 17 Nov 2025 15:29

Instrument :
BNA_F
ClientSampleId :
SU-03-11142025



Tgt Ion:276 Resp: 12500
Ion Ratio Lower Upper
276 100
277 26.0 19.0 28.4
138 20.2 12.9 19.3

Manual Integrations
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Reviewed By :Jagrut Upadhyay 11/18/2025
Supervised By :Sohil Jodhani 11/18/2025

