

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032125\
 Data File : BF142034.D
 Acq On : 21 Mar 2025 17:21
 Operator : RC/JU
 Sample : Q1619-13
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-5

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/24/2025
 Supervised By :Jagrut Upadhyay 03/24/2025

Quant Time: Mar 21 17:40:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	144988	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	536562	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	265381	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	375293	20.000	ng	0.00
76) Chrysene-d12	14.045	240	326718	20.000	ng	0.00
86) Perylene-d12	15.521	264	385454	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	609506	70.160	ng	0.00
7) Phenol-d6	6.493	99	870536	78.704	ng	-0.01
23) Nitrobenzene-d5	7.434	82	557794	58.503	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	133802	39.743	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	1122253	64.313	ng	-0.01
79) Terphenyl-d14	12.980	244	923182	41.776	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.175	128	754108	27.360	ng	99
37) 2-Methylnaphthalene	8.869	142	190765	10.355	ng	98
38) 1-Methylnaphthalene	8.963	142	116399	6.547	ng	99
46) 1,1'-Biphenyl	9.328	154	108843	5.398	ng	99
52) Acenaphthene	9.945	154	791400	50.493	ng	99
55) Dibenzofuran	10.116	168	899882	40.181	ng	98
58) Fluorene	10.457	166	847852	49.092	ng	99
71) Phenanthrene	11.439	178	7551429	372.528	ng	95
72) Anthracene	11.481	178	2103441	103.430	ng	99
73) Carbazole	11.628	167	810971	46.239	ng	100
75) Fluoranthene	12.628	202	7197899	334.746	ng	97
78) Pyrene	12.857	202	6155729	217.813	ng	94
81) Benzo(a)anthracene	14.033	228	3586806	167.300	ng	97
83) Chrysene	14.074	228	2574046	132.450	ng	96
87) Indeno(1,2,3-cd)pyrene	17.010	276	1010684	40.534	ng	95
88) Benzo(b)fluoranthene	15.098	252	4251280m	160.928	ng	
89) Benzo(k)fluoranthene	15.116	252	1114737m	49.309	ng	
90) Benzo(a)pyrene	15.468	252	2720495	131.612	ng	97
92) Benzo(g,h,i)perylene	17.462	276	881415	43.355	ng	97

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

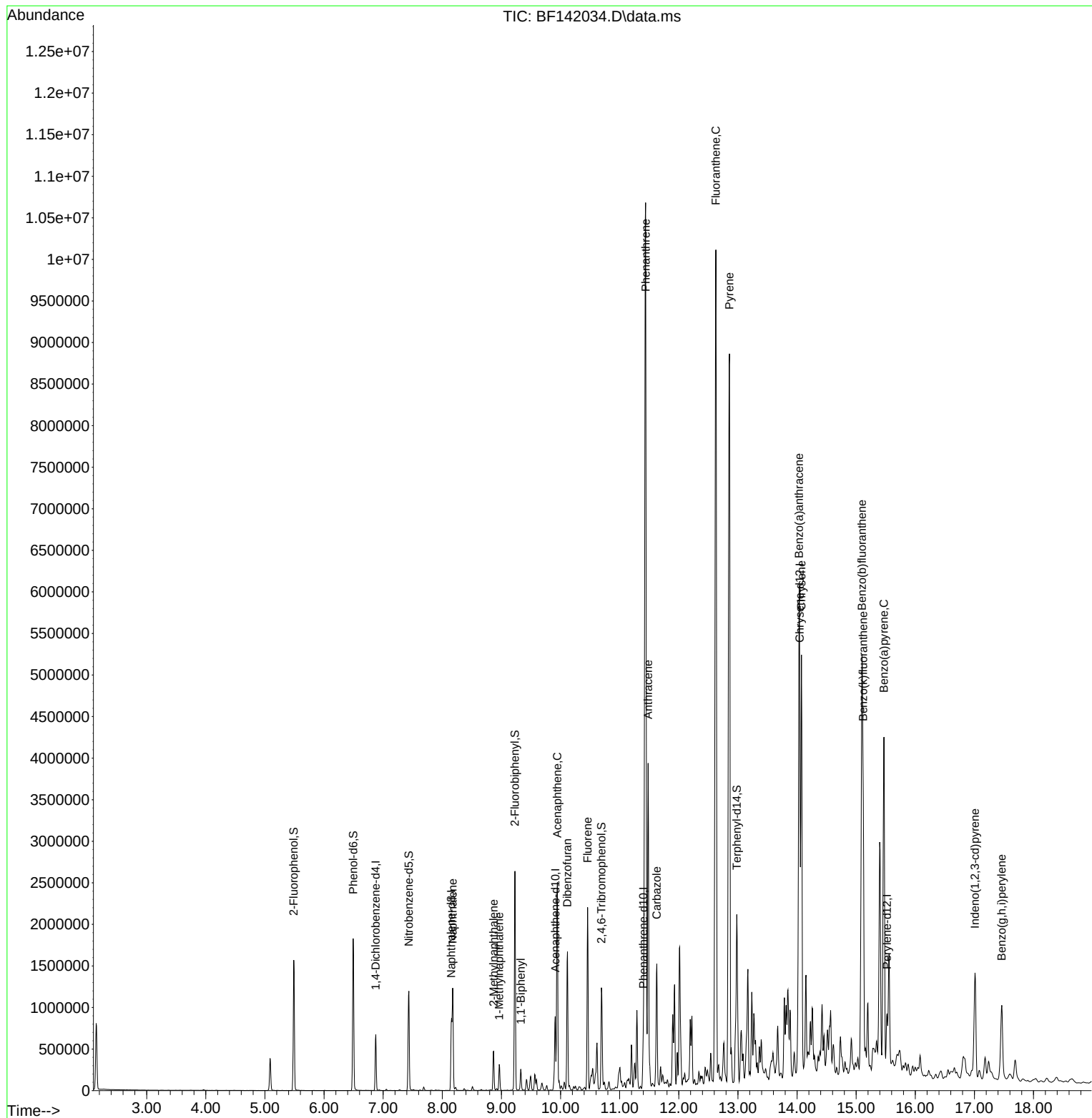
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032125\
Data File : BF142034.D
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Operator : RC/JU
Sample : Q1619-13
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ALS Vial : 13 Sample Multiplier: 1

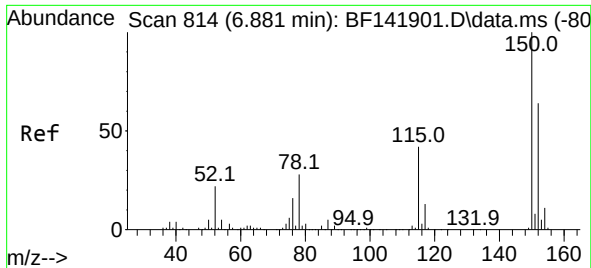
Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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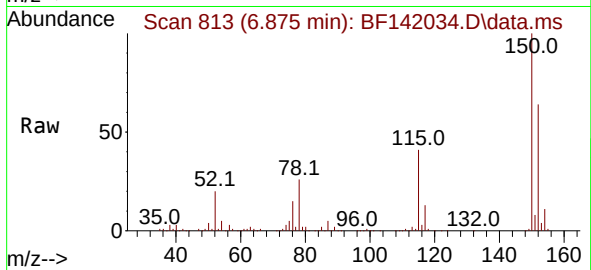
Reviewed By :Anahy Claudio 03/24/2025
Supervised By :Jagrut Upadhyay 03/24/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

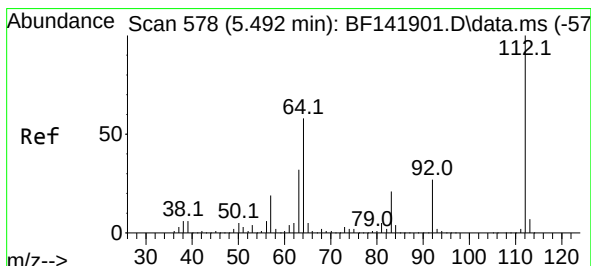
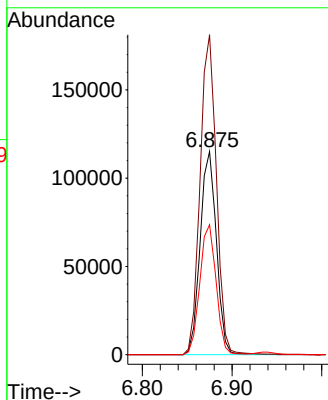
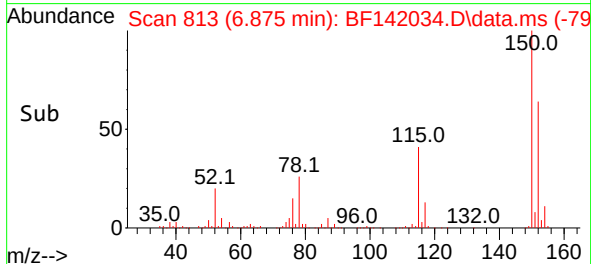
Instrument :
BNA_F
ClientSampleId :
TP-5



Tgt Ion:152 Resp: 144988
Ion Ratio Lower Upper
152 100
150 157.4 127.4 191.2
115 63.9 51.9 77.9

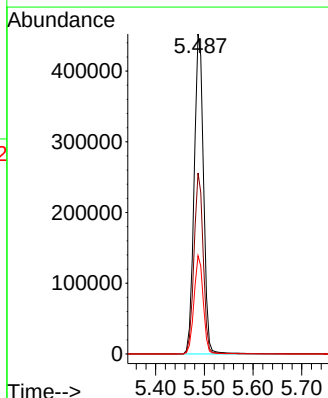
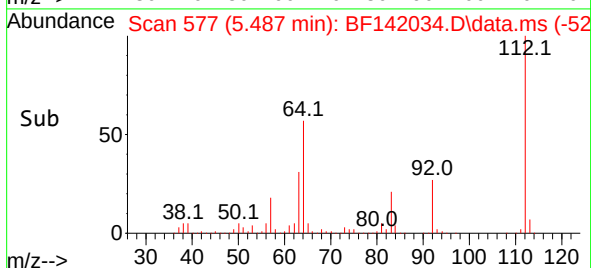
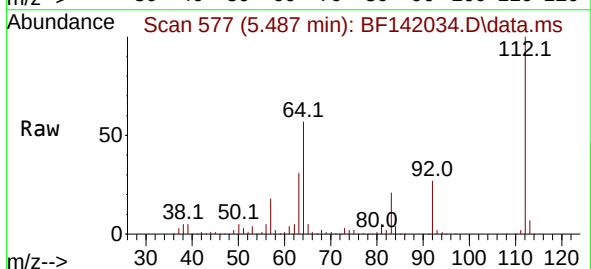
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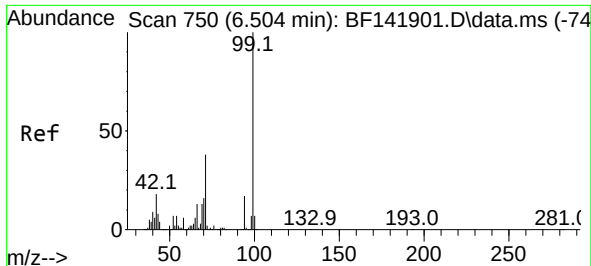
Reviewed By :Anahy Claudio 03/24/2025
Supervised By :Jagrut Upadhyay 03/24/2025



#5
2-Fluorophenol
Concen: 70.160 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

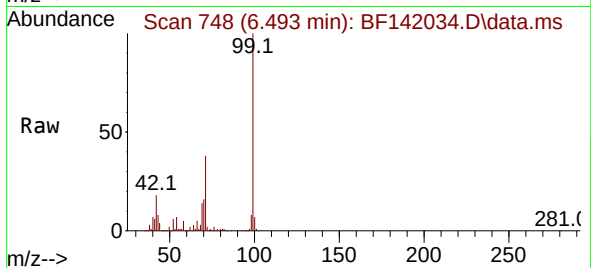
Tgt Ion:112 Resp: 609506
Ion Ratio Lower Upper
112 100
64 56.6 46.5 69.7
63 30.7 25.4 38.2





#7
Phenol-d6
Concen: 78.704 ng
RT: 6.493 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

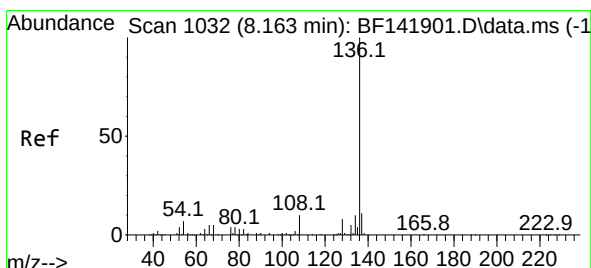
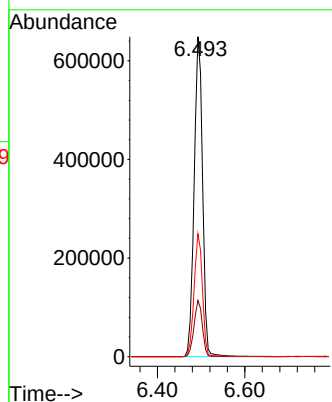
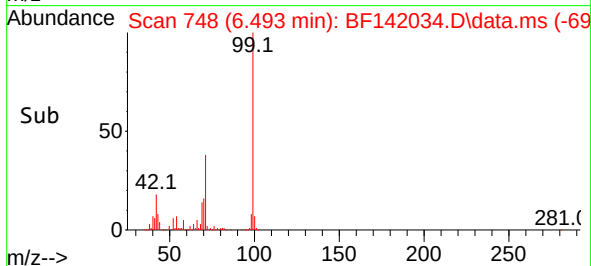
Instrument :
BNA_F
ClientSampleId :
TP-5



Tgt Ion: 99 Resp: 870530
Ion Ratio Lower Upper
99 100
42 17.5 14.6 21.8
71 38.4 30.8 46.2

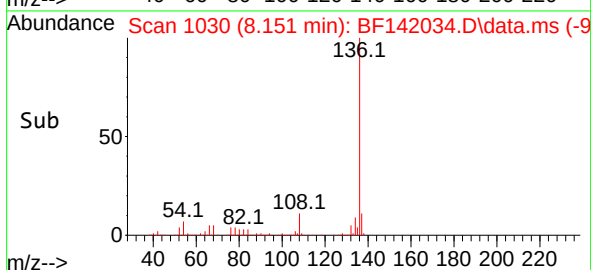
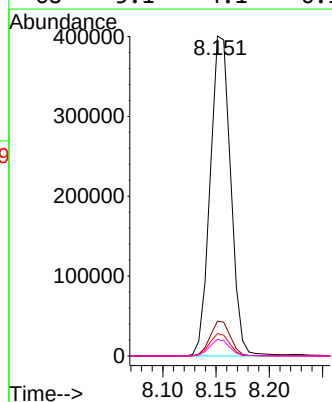
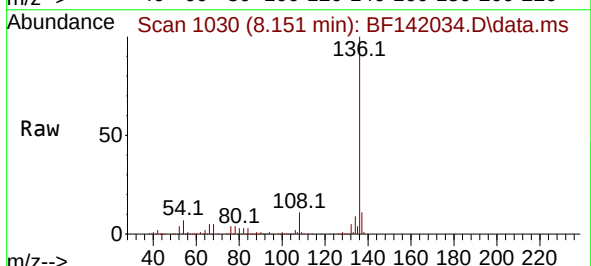
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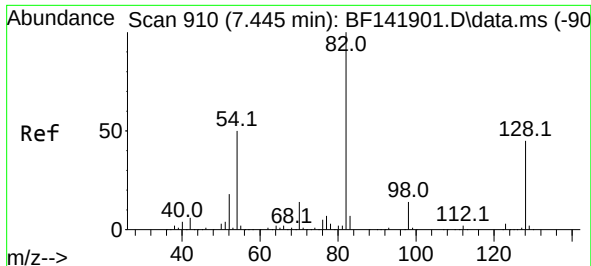
Reviewed By :Anahy Claudio 03/24/2025
Supervised By :Jagrut Upadhyay 03/24/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

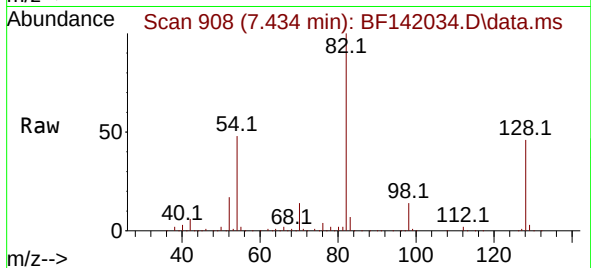
Tgt Ion:136 Resp: 536562
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 7.0 5.8 8.8
68 5.1 4.1 6.1





#23
Nitrobenzene-d5
Concen: 58.503 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

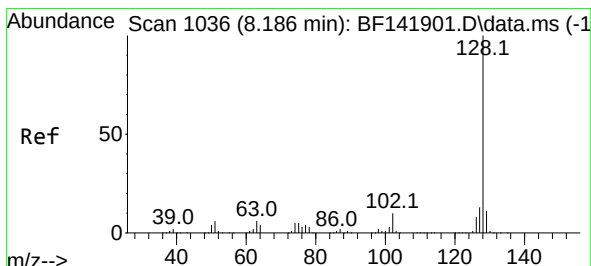
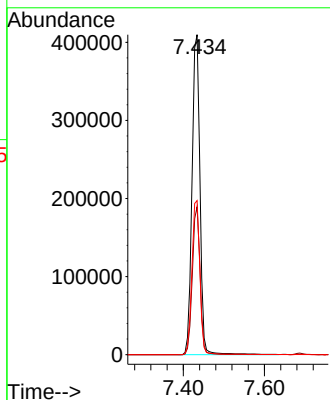
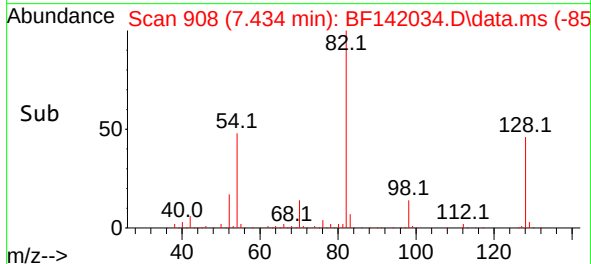
Instrument :
BNA_F
ClientSampleId :
TP-5



Tgt Ion: 82 Resp: 557794
Ion Ratio Lower Upper
82 100
128 46.2 36.0 54.0
54 48.1 39.6 59.4

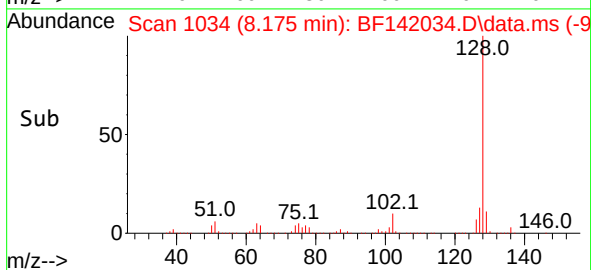
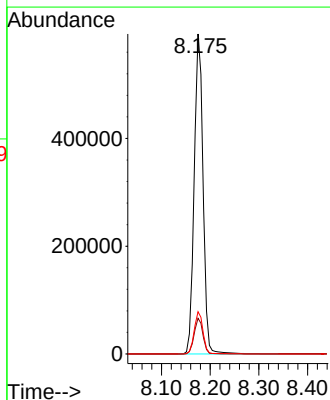
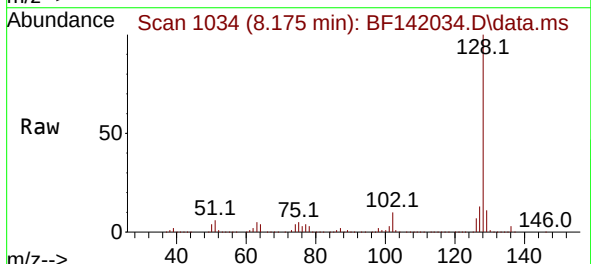
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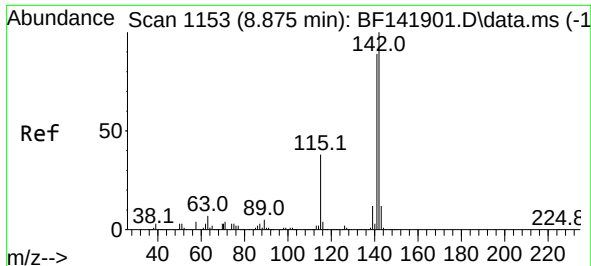
Reviewed By :Anahy Claudio 03/24/2025
Supervised By :Jagrut Upadhyay 03/24/2025



#31
Naphthalene
Concen: 27.360 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

Tgt Ion:128 Resp: 754108
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.6
127 13.2 10.8 16.2





#37

2-Methylnaphthalene

Concen: 10.355 ng

RT: 8.869 min Scan# 1153

Delta R.T. -0.006 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

Instrument :

BNA_F

ClientSampleId :

TP-5

Tgt Ion:142 Resp: 19076

Ion Ratio Lower Upper

142 100

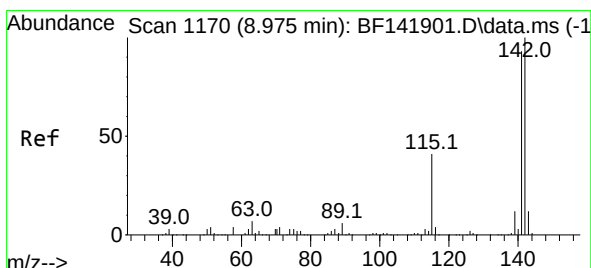
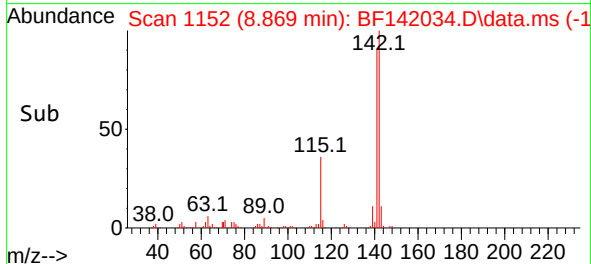
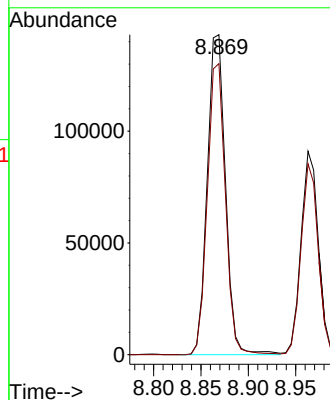
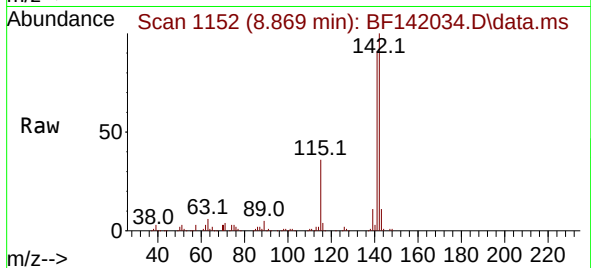
141 91.0 71.2 106.8

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 6.547 ng

RT: 8.963 min Scan# 1168

Delta R.T. -0.012 min

Lab File: BF142034.D

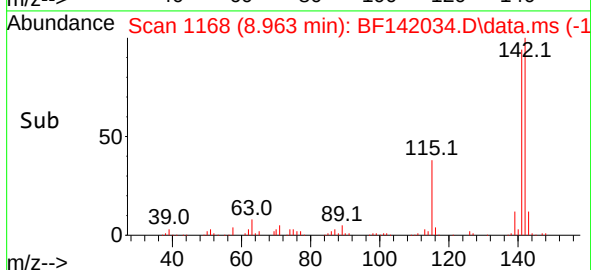
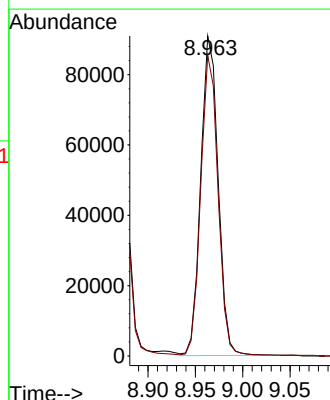
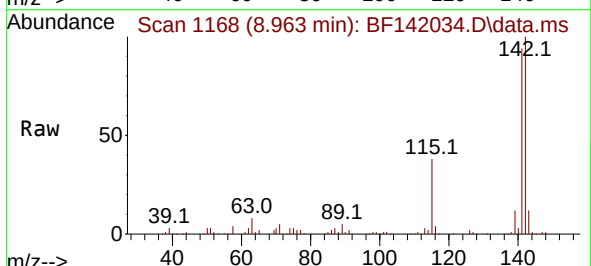
Acq: 21 Mar 2025 17:21

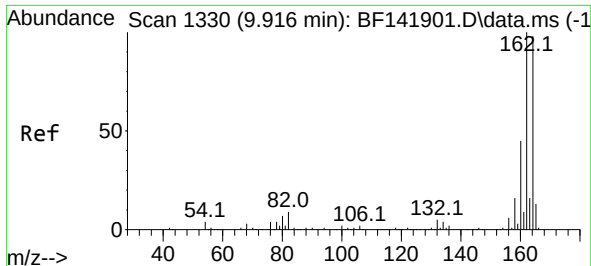
Tgt Ion:142 Resp: 116399

Ion Ratio Lower Upper

142 100

141 93.9 74.2 111.4





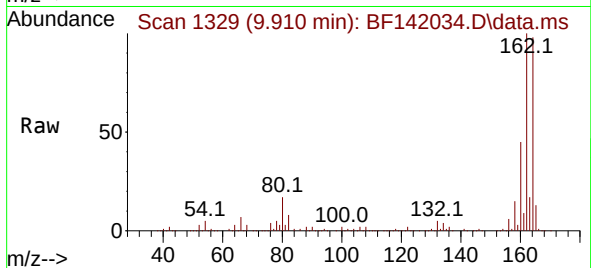
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

Instrument :

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ClientSampleId :

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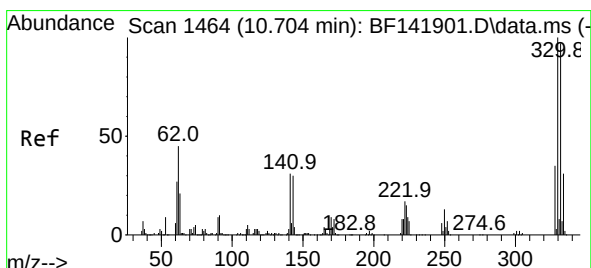
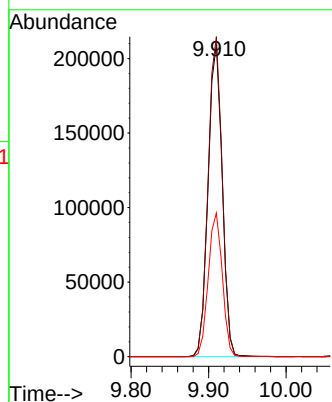
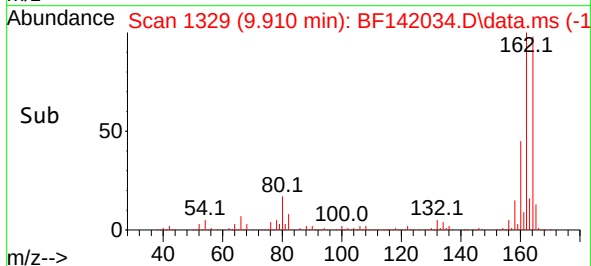


Tgt Ion:164 Resp: 26538
Ion Ratio Lower Upper
164 100
162 102.5 81.8 122.6
160 46.0 36.7 55.1

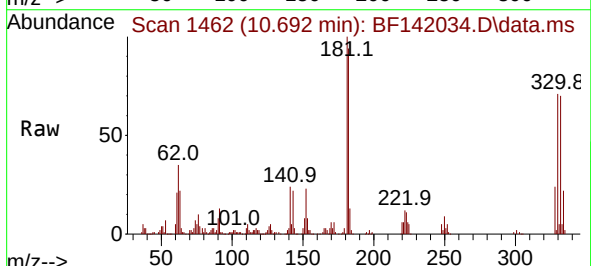
Manual Integrations

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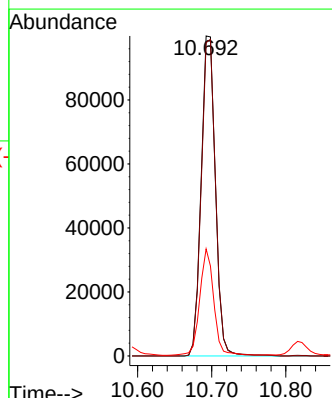
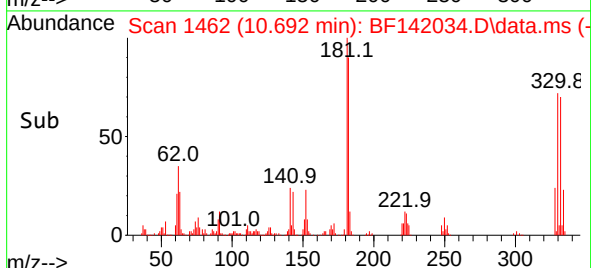
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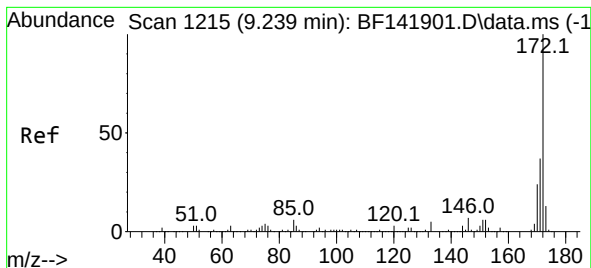


#42
2,4,6-Tribromophenol
Concen: 39.743 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.012 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21



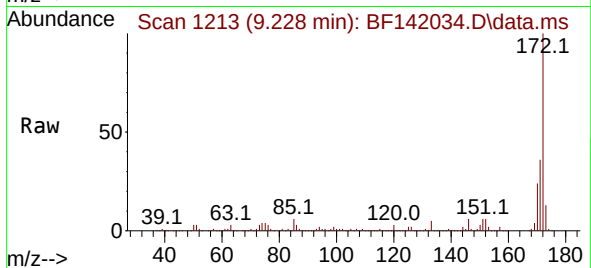
Tgt Ion:330 Resp: 133802
Ion Ratio Lower Upper
330 100
332 99.0 77.6 116.4
141 32.5 24.7 37.1





#45
2-Fluorobiphenyl
Concen: 64.313 ng
RT: 9.228 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

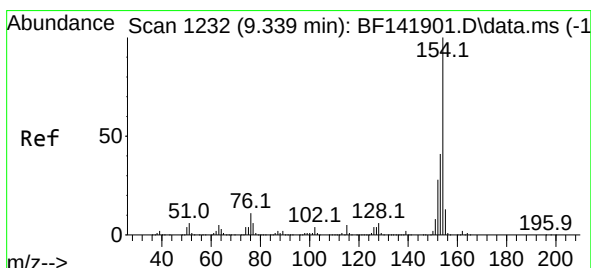
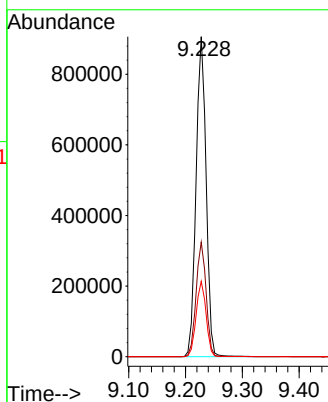
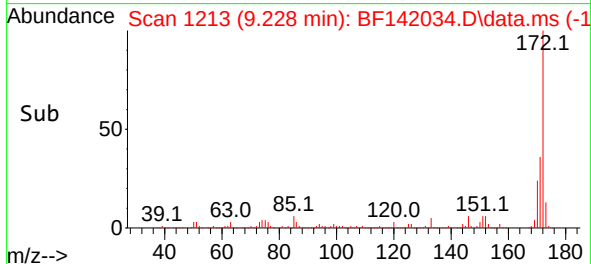
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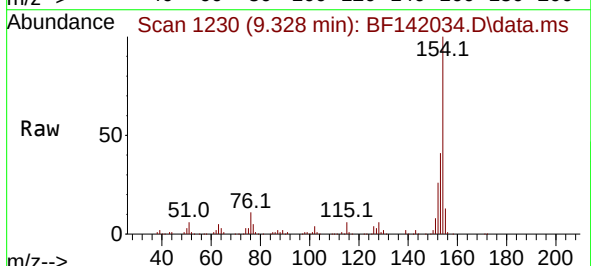
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Ion Ratio Lower Upper
172 100
171 35.8 29.3 43.9
170 23.6 19.4 29.0

Manual Integrations
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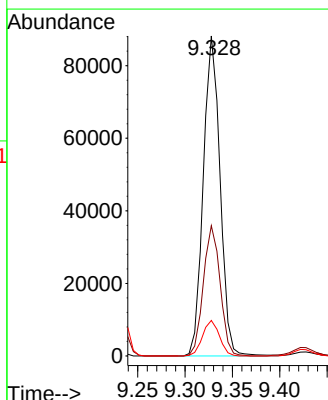
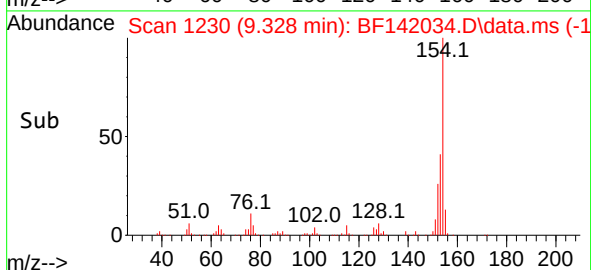
Reviewed By :Anahy Claudio 03/24/2025
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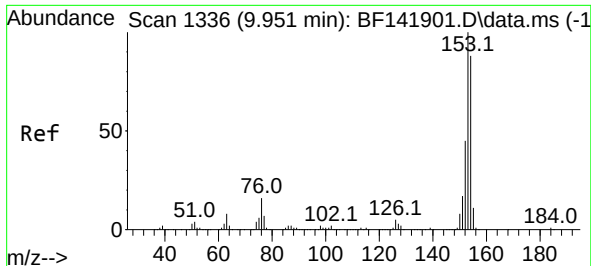


#46
1,1'-Biphenyl
Concen: 5.398 ng
RT: 9.328 min Scan# 1230
Delta R.T. -0.012 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21



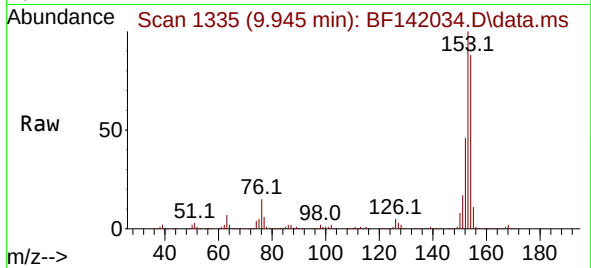
Tgt Ion:154 Resp: 108843
Ion Ratio Lower Upper
154 100
153 40.7 21.1 61.1
76 11.1 0.0 31.3





#52
Acenaphthene
Concen: 50.493 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

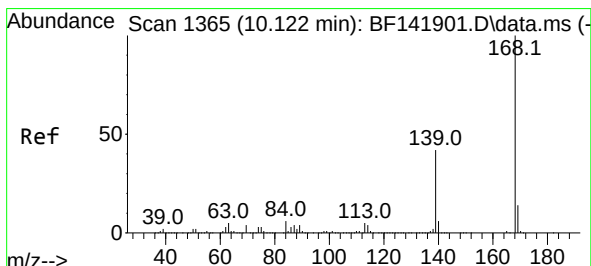
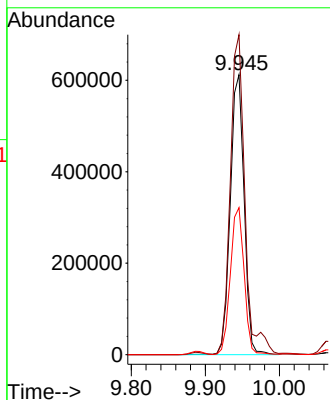
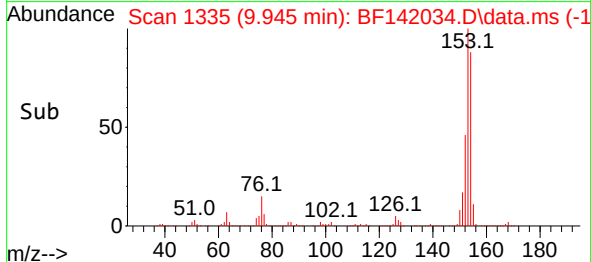
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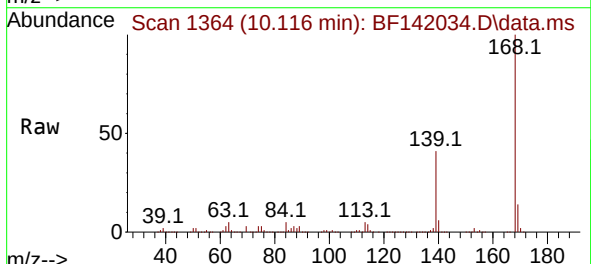
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Ion Ratio Lower Upper
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153 114.3 90.7 136.1
152 52.5 41.1 61.7

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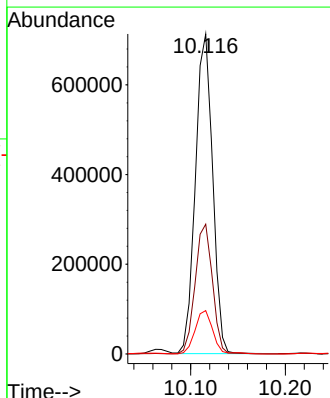
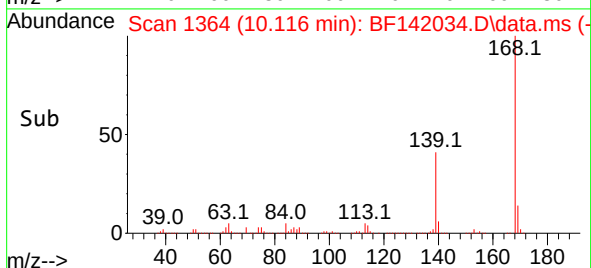
Reviewed By :Anahy Claudio 03/24/2025
Supervised By :Jagrut Upadhyay 03/24/2025

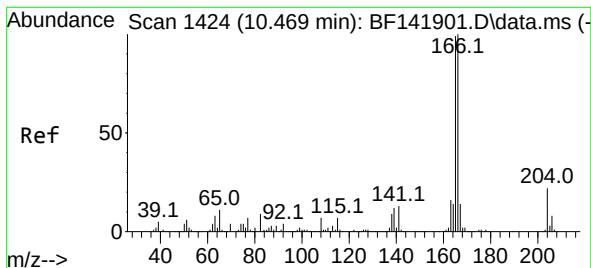


#55
Dibenzofuran
Concen: 40.181 ng
RT: 10.116 min Scan# 1364
Delta R.T. -0.006 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21



Tgt Ion:168 Resp: 899882
Ion Ratio Lower Upper
168 100
139 40.6 33.9 50.9
169 13.6 11.0 16.4





#58

Fluorene

Concen: 49.092 ng

RT: 10.457 min Scan# 1422

Delta R.T. -0.012 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

Instrument :

BNA_F

ClientSampleId :

TP-5

Tgt Ion:166 Resp: 84785

Ion Ratio Lower Upper

166 100

165 97.8 79.0 118.4

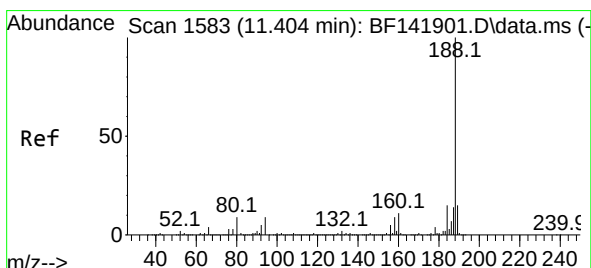
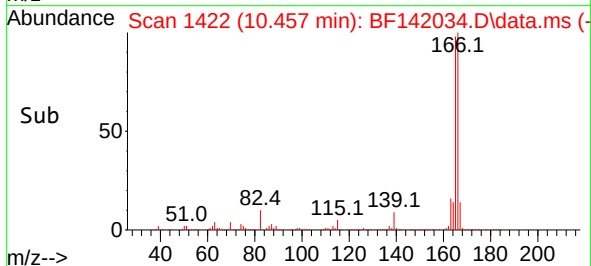
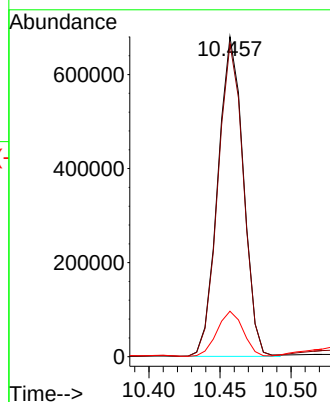
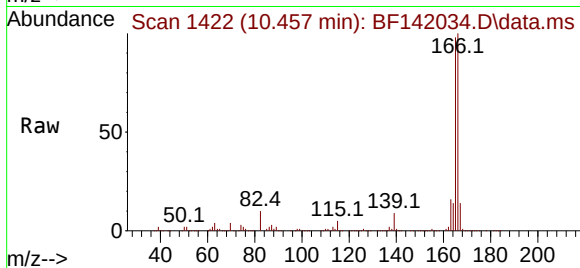
167 14.2 11.0 16.4

Manual Integrations

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Reviewed By :Anahy Claudio 03/24/2025

Supervised By :Jagrut Upadhyay 03/24/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

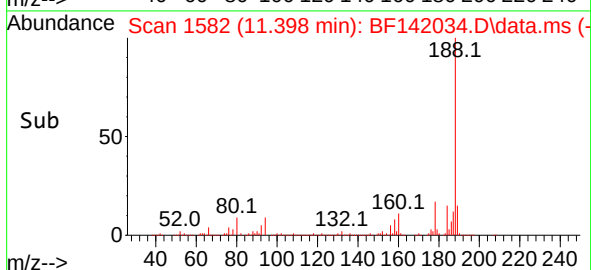
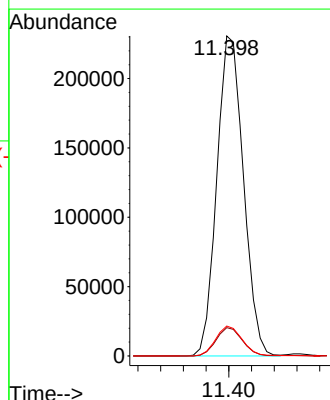
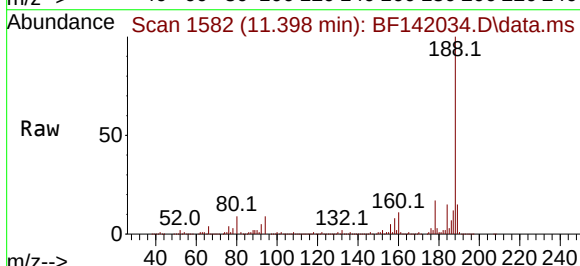
Tgt Ion:188 Resp: 375293

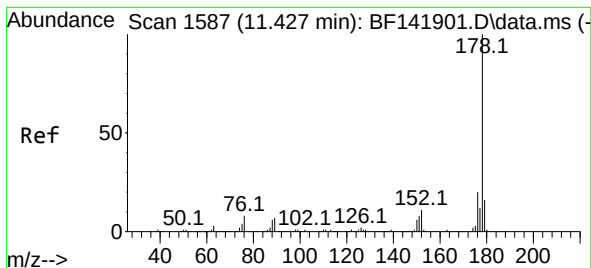
Ion Ratio Lower Upper

188 100

94 8.9 6.8 10.2

80 9.3 7.6 11.4





#71

Phenanthrene

Concen: 372.528 ng

RT: 11.439 min Scan# 1589

Delta R.T. 0.012 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

Instrument :

BNA_F

ClientSampleId :

TP-5

Tgt Ion:178 Resp: 7551429

Ion Ratio Lower Upper

178 100

176 22.3 15.8 23.8

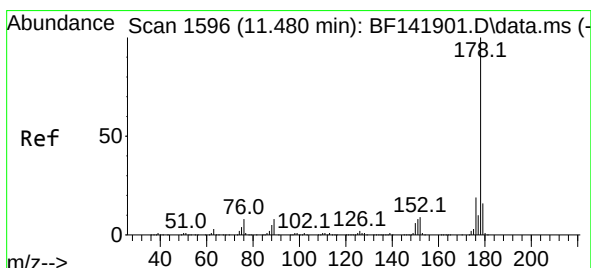
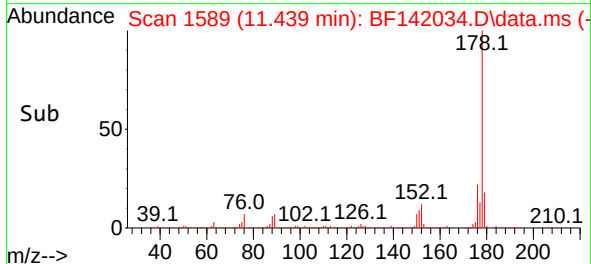
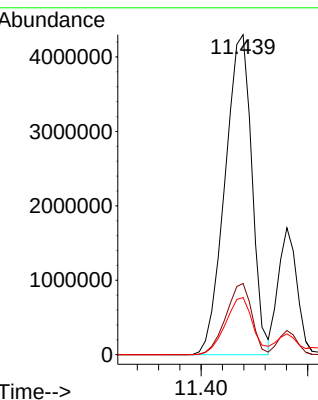
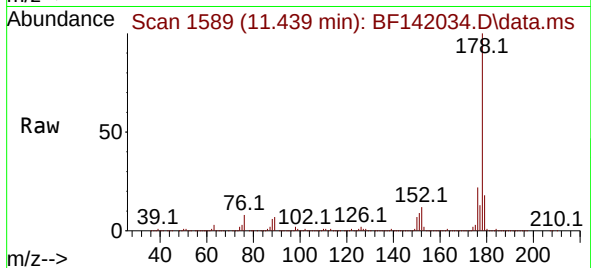
179 17.9 12.6 19.0

Manual Integrations

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Reviewed By :Anahy Claudio 03/24/2025

Supervised By :Jagrut Upadhyay 03/24/2025



#72

Anthracene

Concen: 103.430 ng

RT: 11.481 min Scan# 1596

Delta R.T. 0.000 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

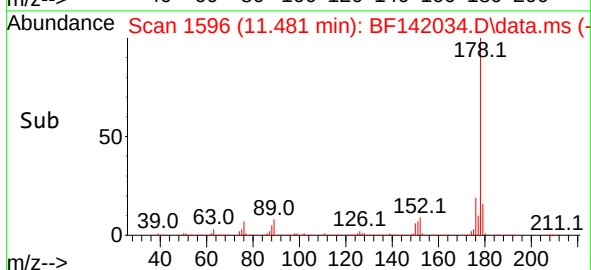
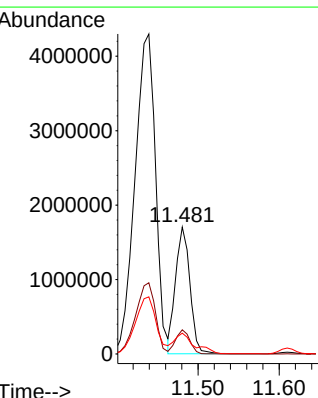
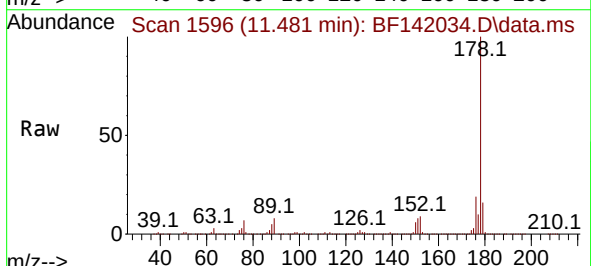
Tgt Ion:178 Resp: 2103441

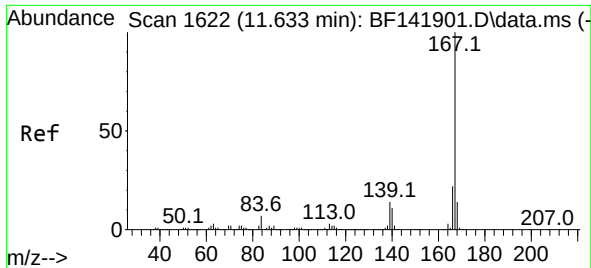
Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

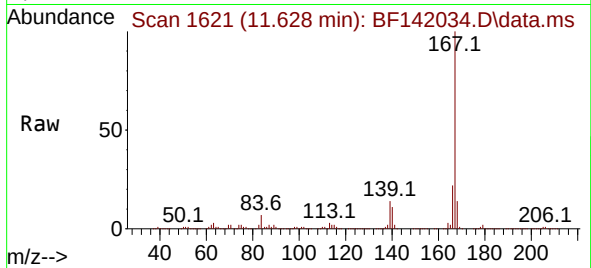
179 16.4 12.6 19.0





#73
 Carbazole
 Concen: 46.239 ng
 RT: 11.628 min Scan# 1791
 Delta R.T. -0.006 min
 Lab File: BF142034.D
 Acq: 21 Mar 2025 17:21

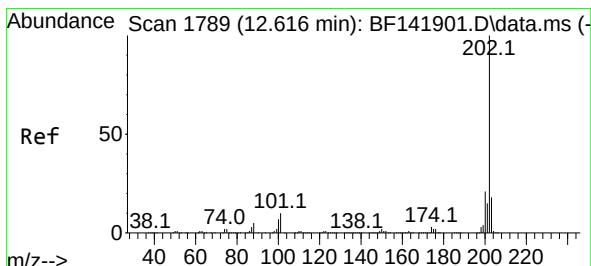
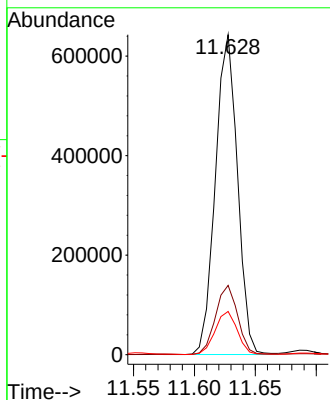
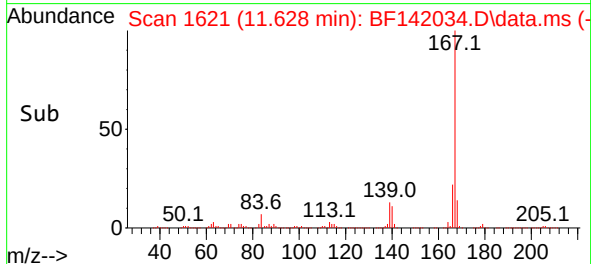
Instrument :
 BNA_F
 ClientSampleId :
 TP-5



Tgt Ion:167 Resp: 81097
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.4 26.2
 139 13.5 11.0 16.6

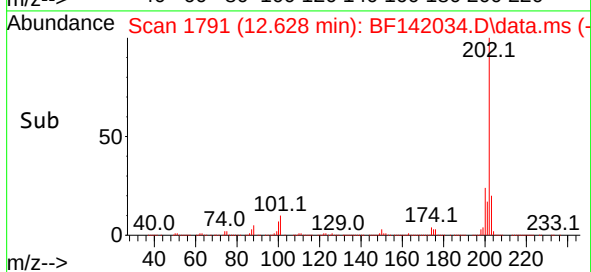
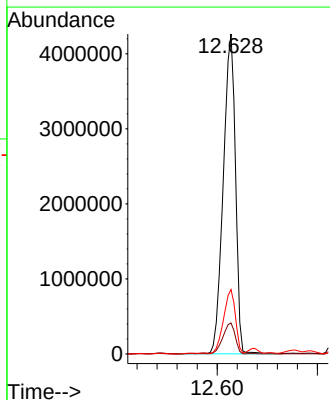
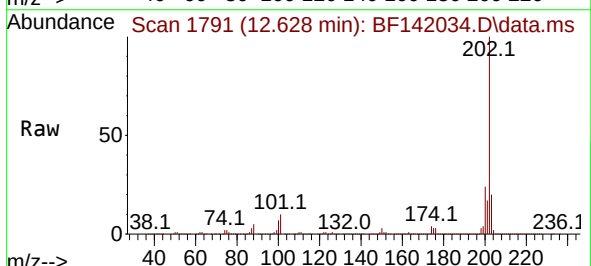
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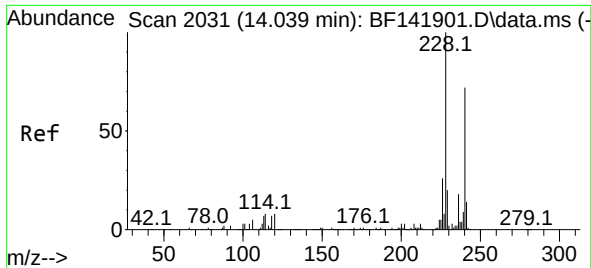
Reviewed By :Anahy Claudio 03/24/2025
 Supervised By :Jagrut Upadhyay 03/24/2025



#75
 Fluoranthene
 Concen: 334.746 ng
 RT: 12.628 min Scan# 1791
 Delta R.T. 0.012 min
 Lab File: BF142034.D
 Acq: 21 Mar 2025 17:21

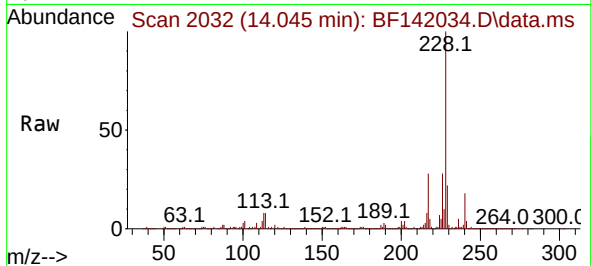
Tgt Ion:202 Resp: 7197899
 Ion Ratio Lower Upper
 202 100
 101 9.7 0.0 29.7
 203 20.2 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2031
Delta R.T. 0.006 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

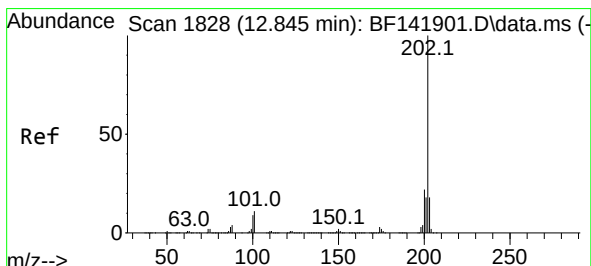
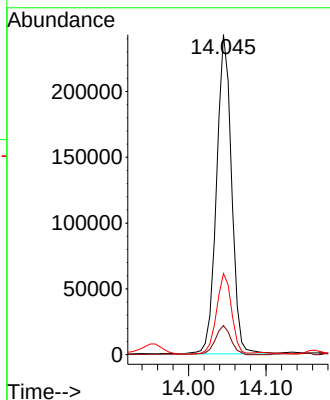
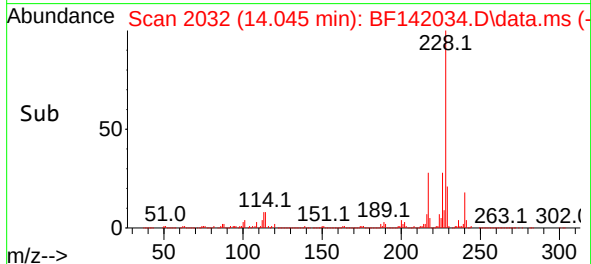
Instrument :
BNA_F
ClientSampleId :
TP-5



Tgt Ion:240 Resp: 326718
Ion Ratio Lower Upper
240 100
120 9.1 8.4 12.6
236 25.4 20.5 30.7

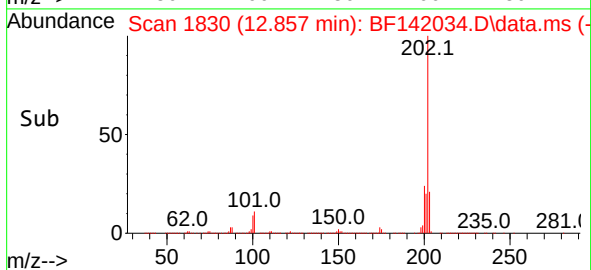
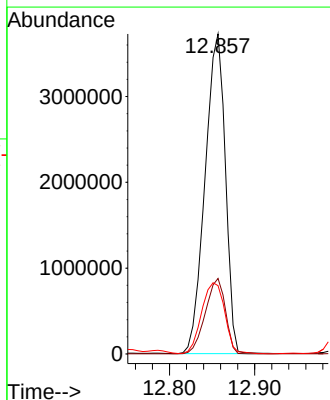
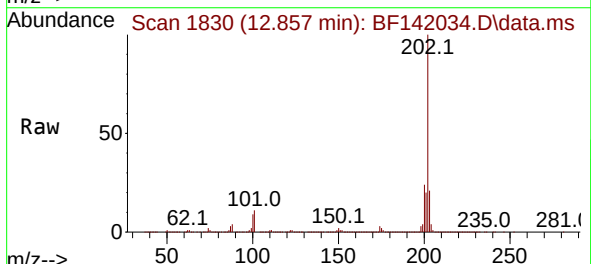
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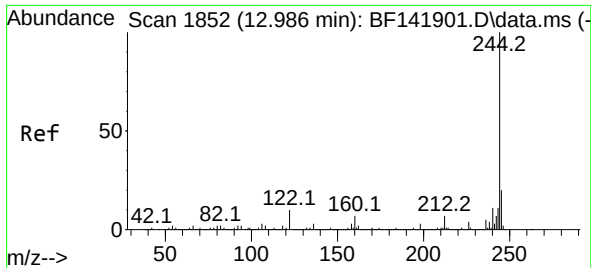
Reviewed By :Anahy Claudio 03/24/2025
Supervised By :Jagrut Upadhyay 03/24/2025



#78
Pyrene
Concen: 217.813 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.012 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

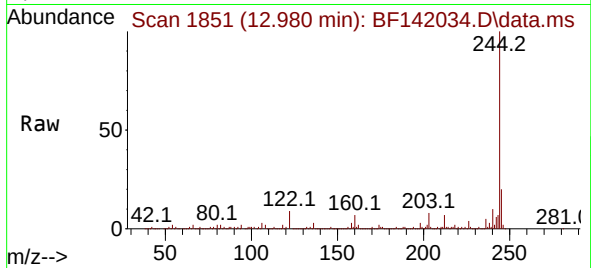
Tgt Ion:202 Resp: 6155729
Ion Ratio Lower Upper
202 100
200 23.6 17.3 25.9
203 21.4 14.4 21.6





#79
Terphenyl-d14
Concen: 41.776 ng
RT: 12.980 min Scan# 1852
Delta R.T. -0.006 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

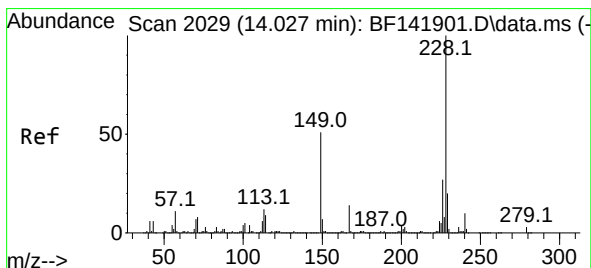
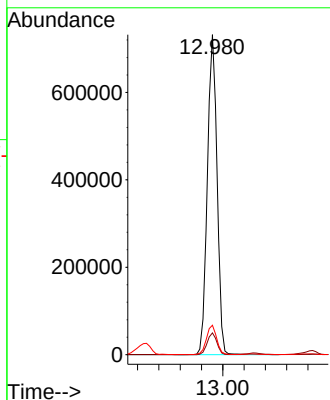
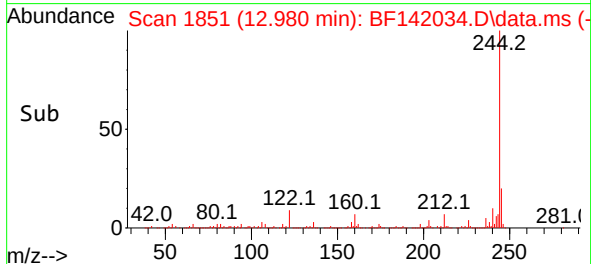
Instrument :
BNA_F
ClientSampleId :
TP-5



Tgt Ion:244 Resp: 92318
Ion Ratio Lower Upper
244 100
212 6.8 6.0 9.0
122 9.2 7.7 11.5

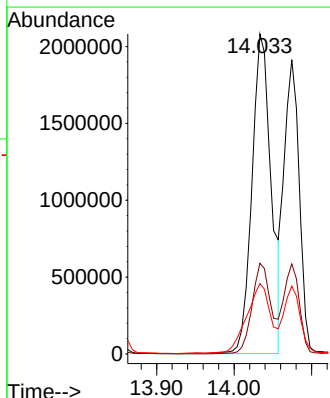
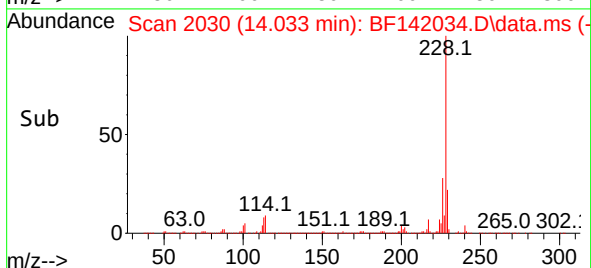
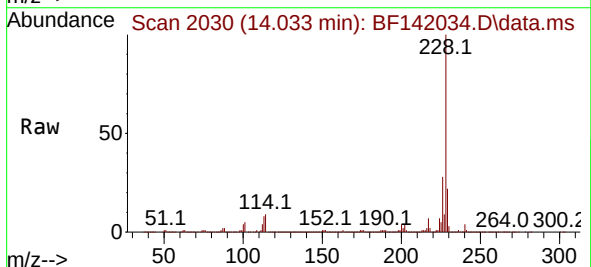
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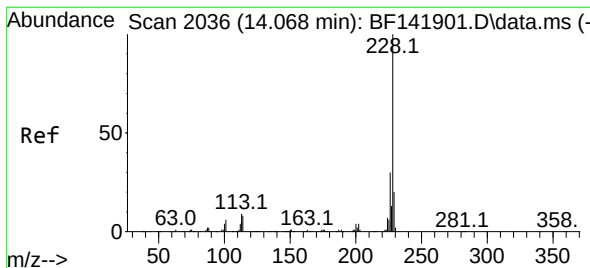
Reviewed By :Anahy Claudio 03/24/2025
Supervised By :Jagrut Upadhyay 03/24/2025



#81
Benzo(a)anthracene
Concen: 167.300 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.006 min
Lab File: BF142034.D
Acq: 21 Mar 2025 17:21

Tgt Ion:228 Resp: 3586806
Ion Ratio Lower Upper
228 100
226 28.3 21.8 32.8
229 22.0 16.0 24.0





#83

Chrysene

Concen: 132.450 ng

RT: 14.074 min Scan# 2036

Delta R.T. 0.006 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

Instrument :

BNA_F

ClientSampleId :

TP-5

Tgt Ion:228 Resp: 257404

Ion Ratio Lower Upper

228 100

226 30.6 24.1 36.1

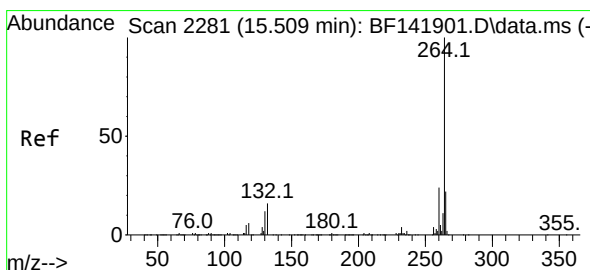
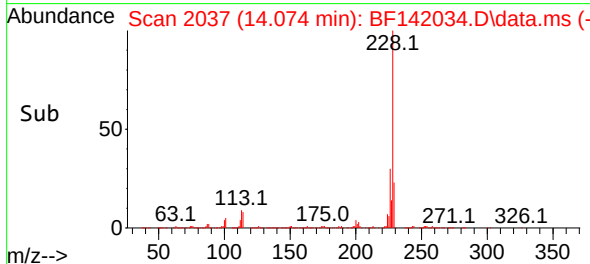
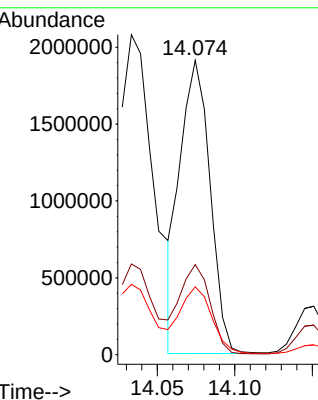
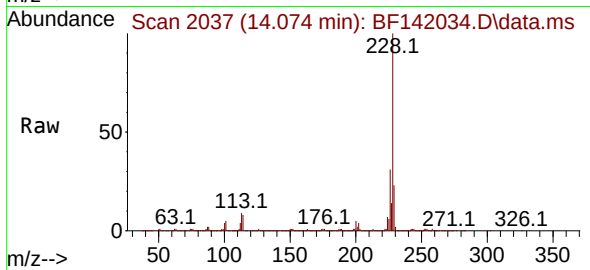
229 23.1 15.7 23.5

Manual Integrations

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Reviewed By :Anahy Claudio 03/24/2025

Supervised By :Jagrut Upadhyay 03/24/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.521 min Scan# 2283

Delta R.T. 0.012 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

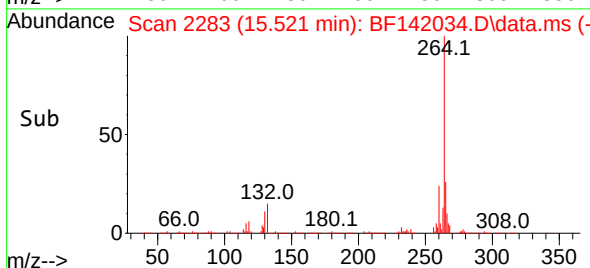
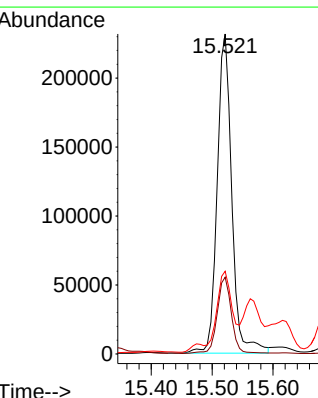
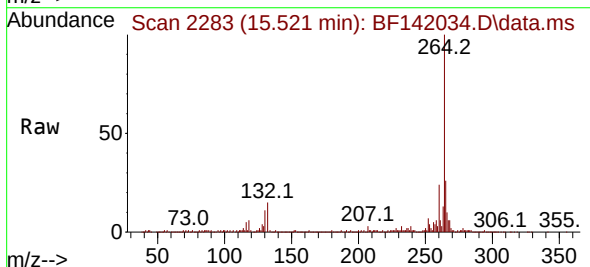
Tgt Ion:264 Resp: 385454

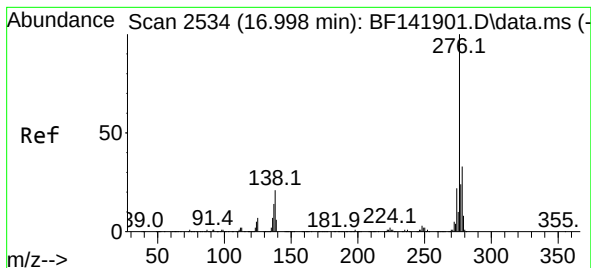
Ion Ratio Lower Upper

264 100

260 24.0 19.1 28.7

265 25.8 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 40.534 ng

RT: 17.010 min Scan# 2111

Delta R.T. 0.012 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

Instrument :

BNA_F

ClientSampleId :

TP-5

Tgt Ion:276 Resp: 1010684

Ion Ratio Lower Upper

276 100

138 19.1 18.4 27.6

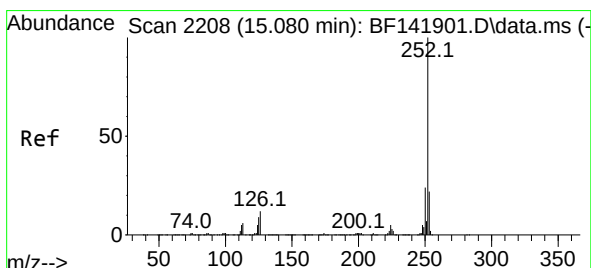
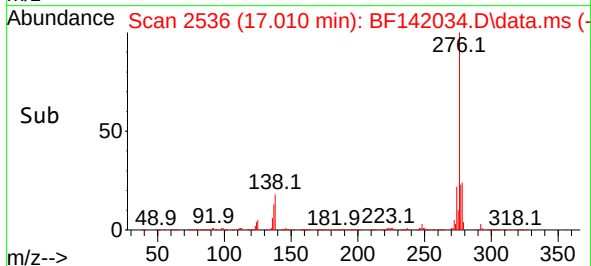
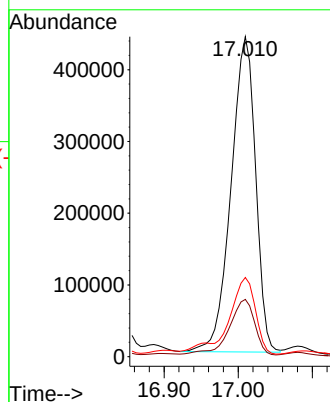
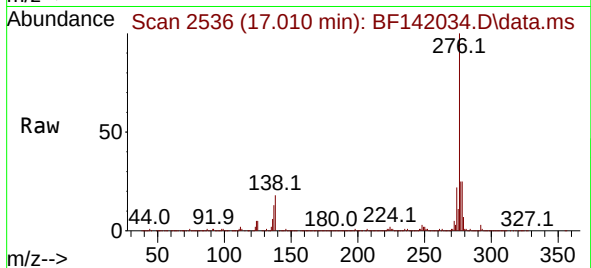
277 26.8 20.3 30.5

Manual Integrations

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Reviewed By :Anahy Claudio 03/24/2025

Supervised By :Jagrut Upadhyay 03/24/2025



#88

Benzo(b)fluoranthene

Concen: 160.928 ng m

RT: 15.098 min Scan# 2211

Delta R.T. 0.018 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

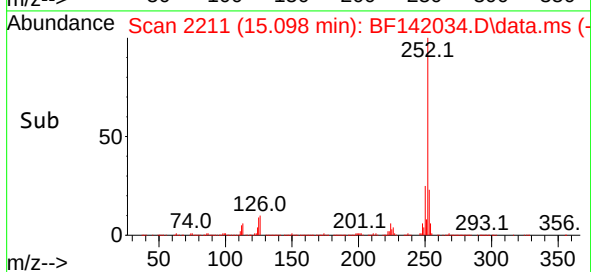
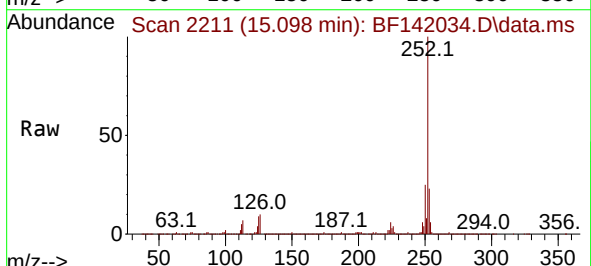
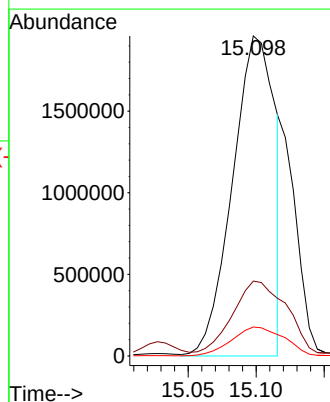
Tgt Ion:252 Resp: 4251280

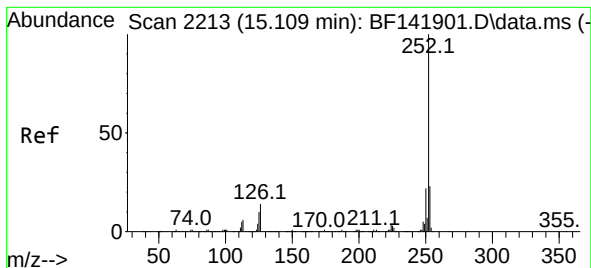
Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

125 9.0 7.0 10.4





#89

Benzo(k)fluoranthene

Concen: 49.309 ng m

RT: 15.116 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

Instrument :

BNA_F

ClientSampleId :

TP-5

Tgt Ion:252 Resp: 111473

Ion Ratio Lower Upper

252 100

253 23.9 17.7 26.5

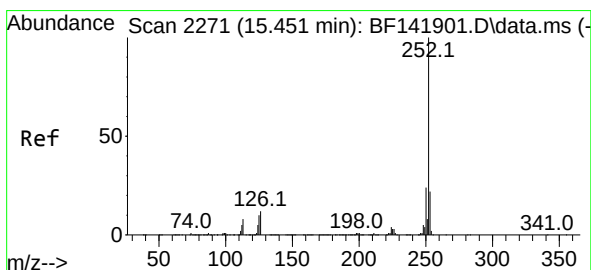
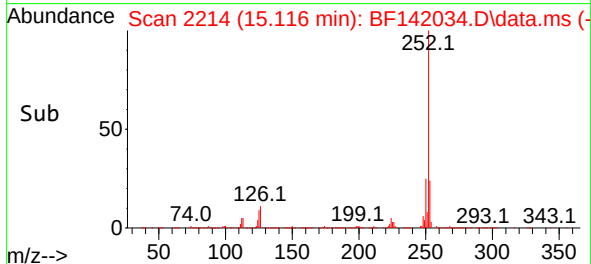
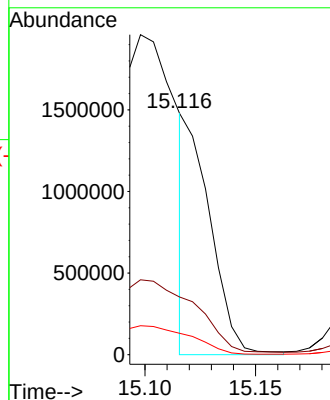
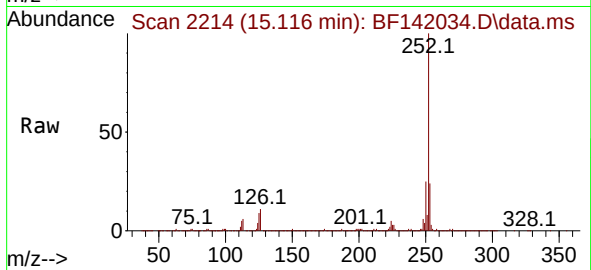
125 8.9 7.2 10.8

Manual Integrations

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Reviewed By :Anahy Claudio 03/24/2025

Supervised By :Jagrut Upadhyay 03/24/2025



#90

Benzo(a)pyrene

Concen: 131.612 ng

RT: 15.468 min Scan# 2274

Delta R.T. 0.018 min

Lab File: BF142034.D

Acq: 21 Mar 2025 17:21

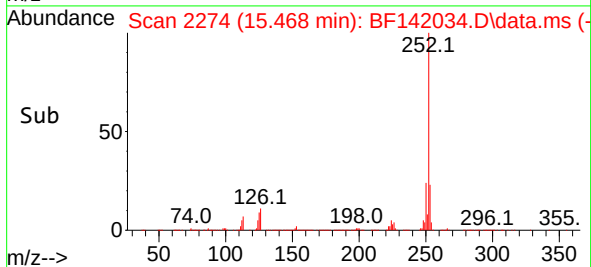
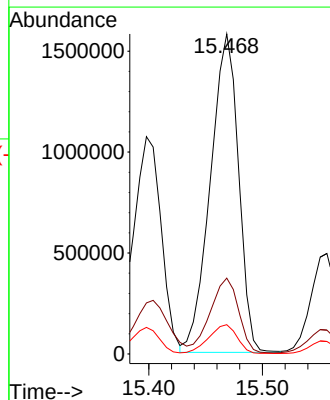
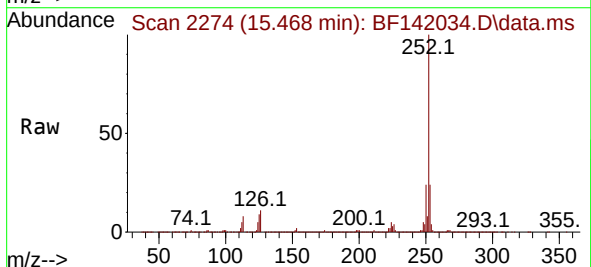
Tgt Ion:252 Resp: 2720495

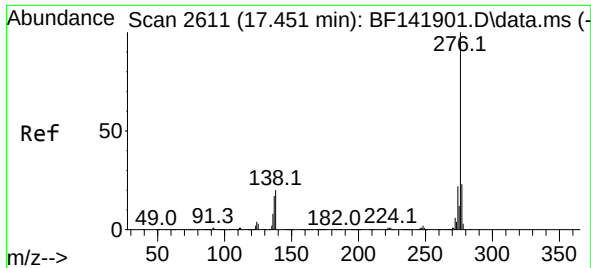
Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 9.1 7.8 11.8





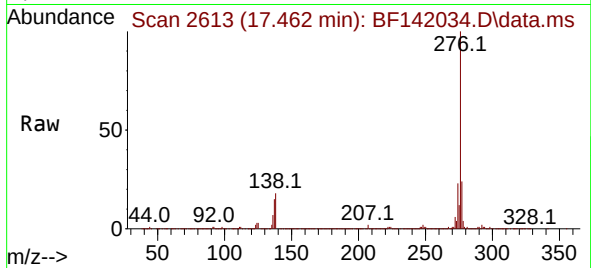
#92
 Benzo(g,h,i)perylene
 Concen: 43.355 ng
 RT: 17.462 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF142034.D
 Acq: 21 Mar 2025 17:21

Instrument :

BNA_F

ClientSampleId :

TP-5



Tgt Ion:276 Resp: 881415
 Ion Ratio Lower Upper
 276 100
 277 24.4 18.7 28.1
 138 18.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/24/2025
 Supervised By :Jagrut Upadhyay 03/24/2025

