

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032725\
 Data File : BF142142.D
 Acq On : 27 Mar 2025 23:39
 Operator : RC/JU
 Sample : Q1648-13 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 28 01:58:52 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	6.869	152	143753	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	584790	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	328851	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	537817	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	315841	20.000	ng	0.00
86) Perylene-d12	15.509	264	345026	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	136751	15.877	ng	-0.02
7) Phenol-d6	6.487	99	175659	16.018	ng	-0.02
23) Nitrobenzene-d5	7.428	82	114134	10.983	ng	-0.02
42) 2,4,6-Tribromophenol	10.692	330	34825	8.347	ng	-0.01
45) 2-Fluorobiphenyl	9.222	172	255934	11.836	ng	-0.02
79) Terphenyl-d14	12.974	244	230092	10.771	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.416	178	586218	20.180	ng	99
72) Anthracene	11.469	178	124754	4.281	ng	98
75) Fluoranthene	12.610	202	851066	27.619	ng	99
78) Pyrene	12.839	202	799957	29.280	ng	99
81) Benzo(a)anthracene	14.021	228	305262	14.729	ng	99
83) Chrysene	14.057	228	251373	13.380	ng	98
87) Indeno(1,2,3-cd)pyrene	16.986	276	116111m	5.202	ng	
88) Benzo(b)fluoranthene	15.074	252	295330m	12.489	ng	
89) Benzo(k)fluoranthene	15.092	252	96792m	4.783	ng	
90) Benzo(a)pyrene	15.445	252	218760	11.823	ng	98
92) Benzo(g,h,i)perylene	17.439	276	103944	5.712	ng	99

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

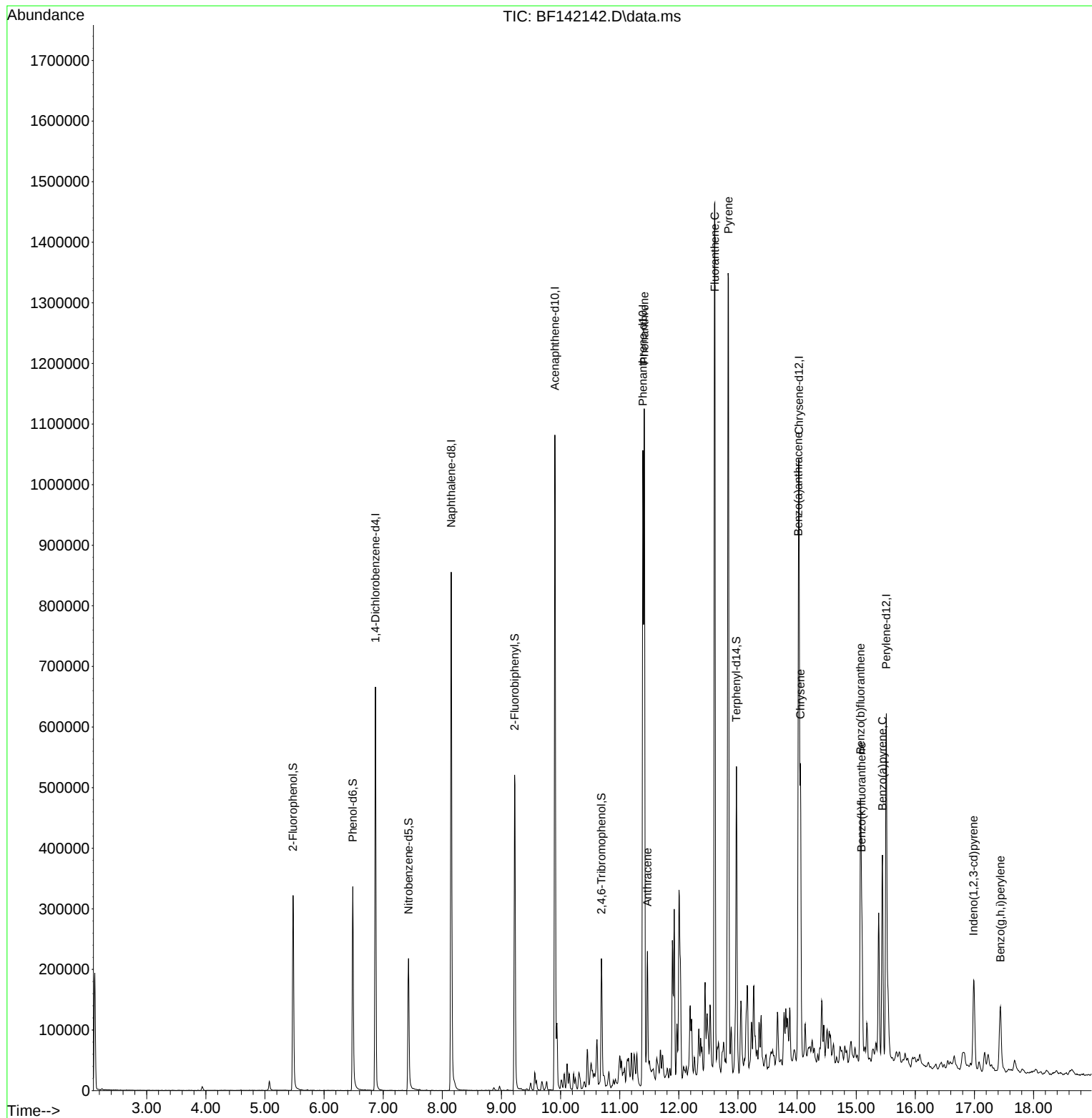
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032725\
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ALS Vial : 17 Sample Multiplier: 1

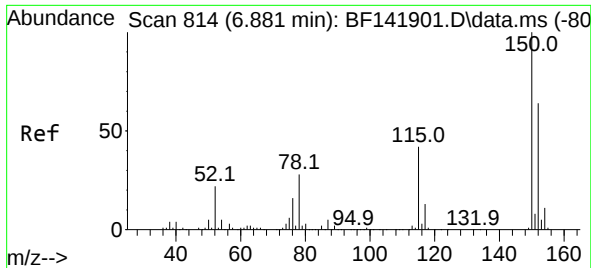
Instrument :
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Quant Time: Mar 28 01:58:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
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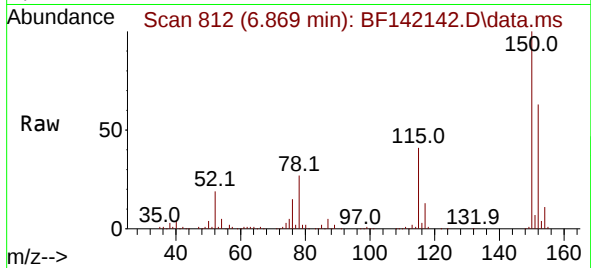
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

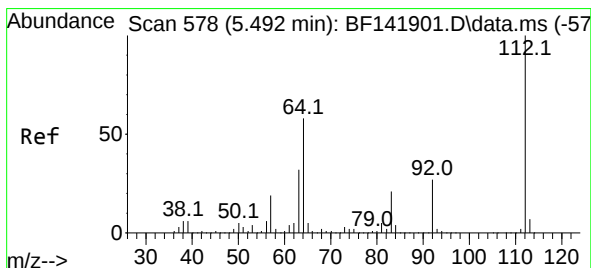
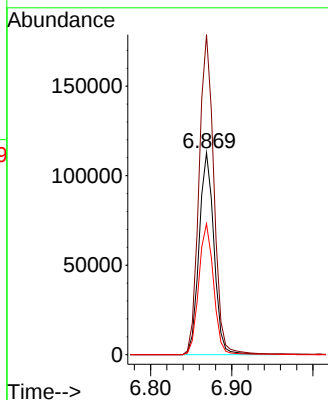
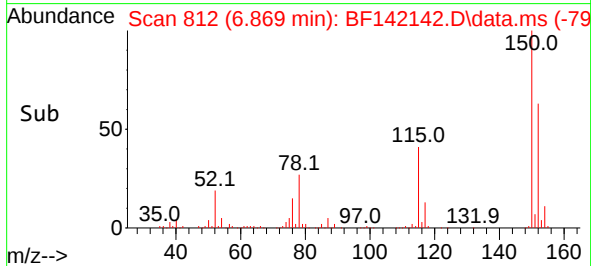
Instrument :
BNA_F
ClientSampleId :
TP-2



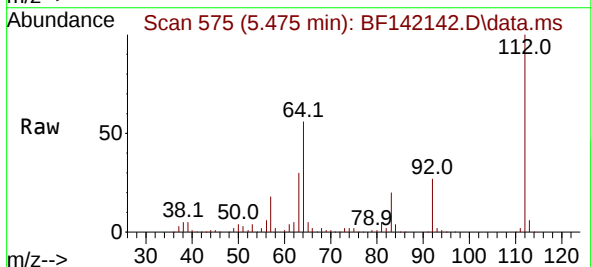
Tgt Ion:152 Resp: 143751
Ion Ratio Lower Upper
152 100
150 158.4 127.4 191.2
115 64.8 51.9 77.9

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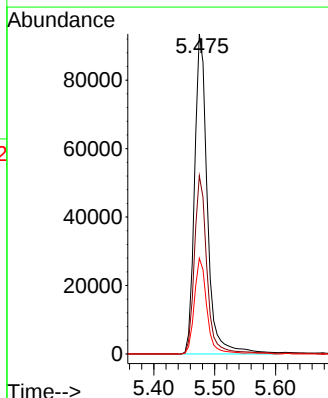
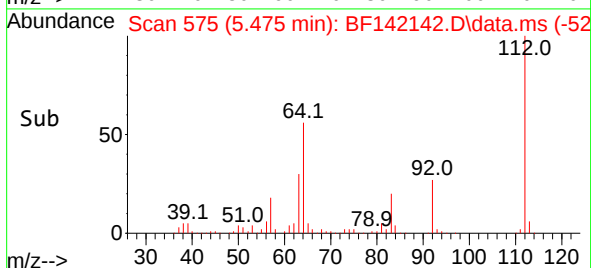
Reviewed By :Anahy Claudio 03/28/2025
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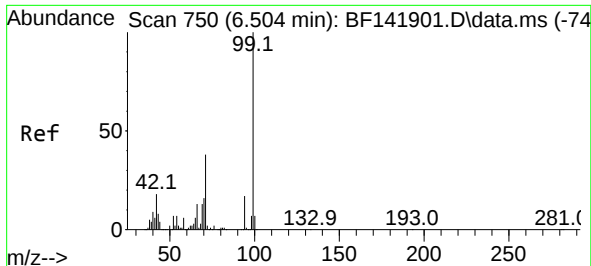


#5
2-Fluorophenol
Concen: 15.877 ng
RT: 5.475 min Scan# 575
Delta R.T. -0.018 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39



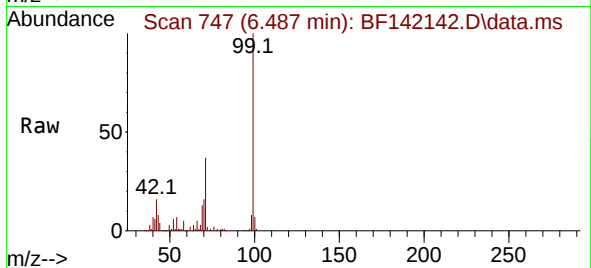
Tgt Ion:112 Resp: 136751
Ion Ratio Lower Upper
112 100
64 55.7 46.5 69.7
63 29.9 25.4 38.2





#7
Phenol-d6
Concen: 16.018 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.018 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

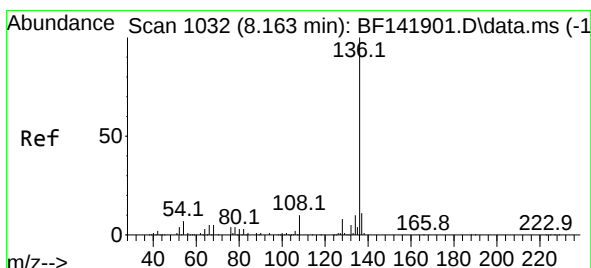
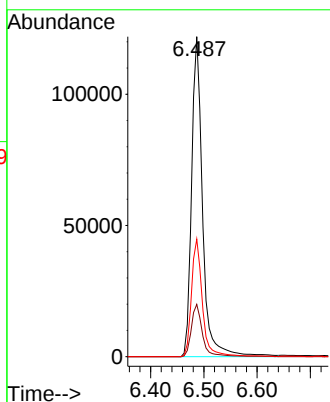
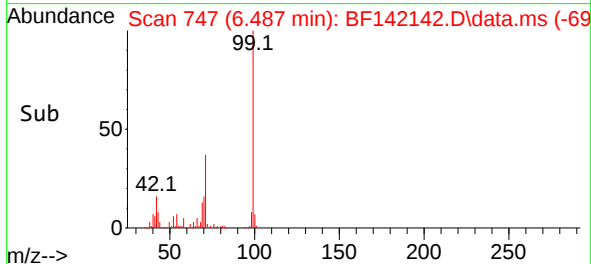
Instrument :
BNA_F
ClientSampleId :
TP-2



Tgt Ion: 99 Resp: 175659
Ion Ratio Lower Upper
99 100
42 16.3 14.6 21.8
71 36.8 30.8 46.2

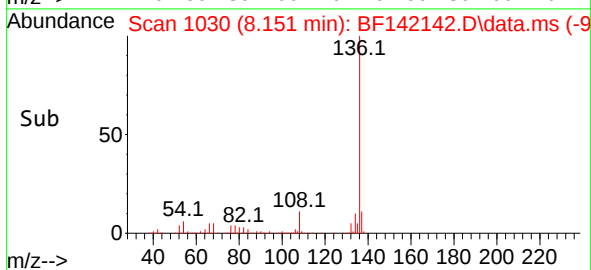
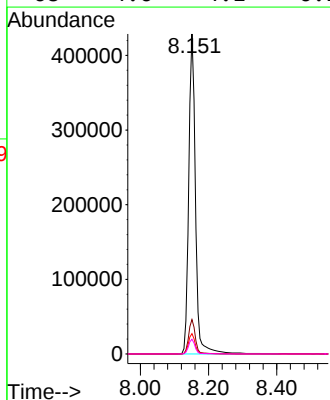
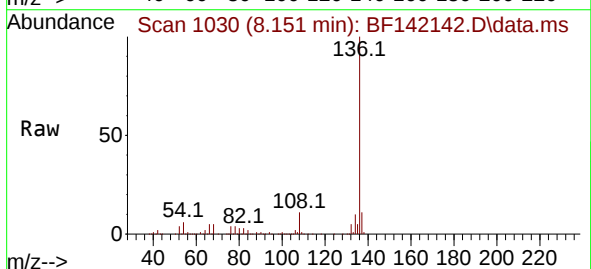
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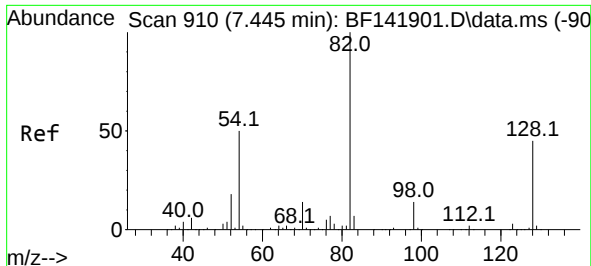
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

Tgt Ion:136 Resp: 584790
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 6.4 5.8 8.8
68 4.6 4.1 6.1





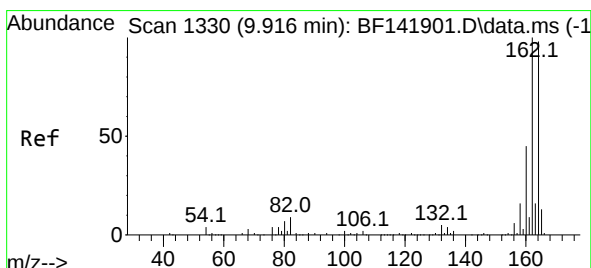
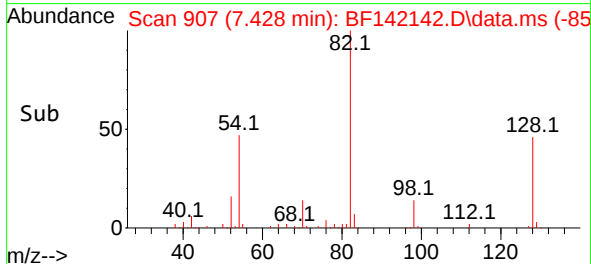
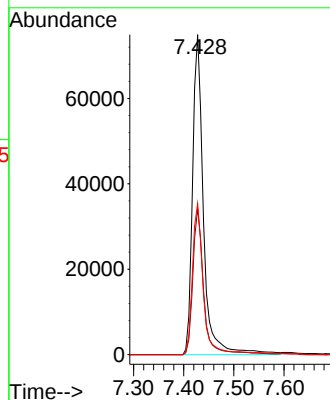
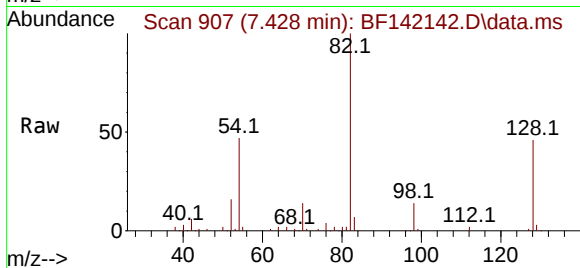
#23
Nitrobenzene-d5
Concen: 10.983 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.018 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion: 82 Resp: 114134
Ion Ratio Lower Upper
82 100
128 45.6 36.0 54.0
54 47.3 39.6 59.4

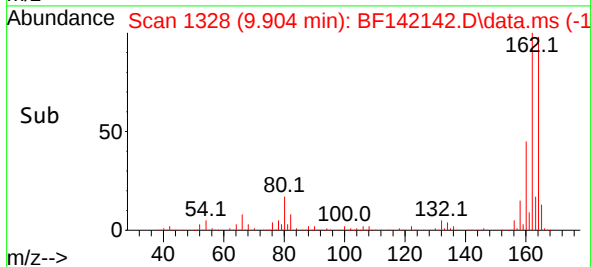
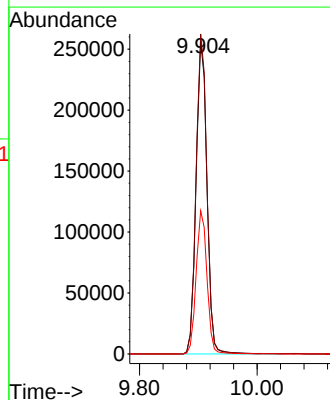
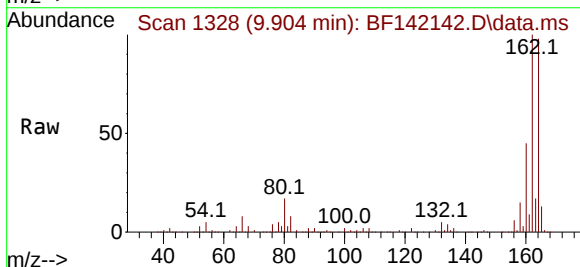
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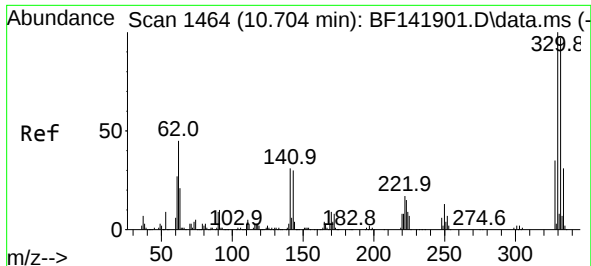
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

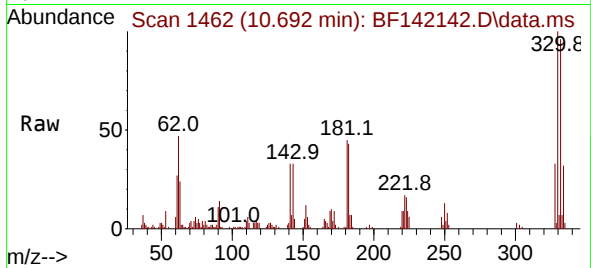
Tgt Ion:164 Resp: 328851
Ion Ratio Lower Upper
164 100
162 102.3 81.8 122.6
160 45.8 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 8.347 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.012 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

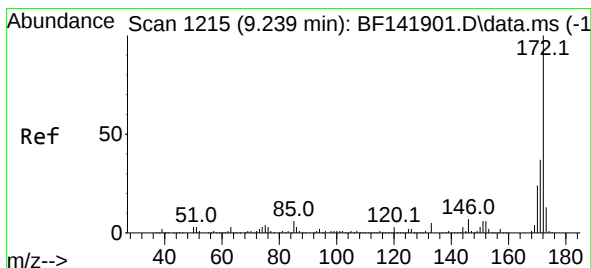
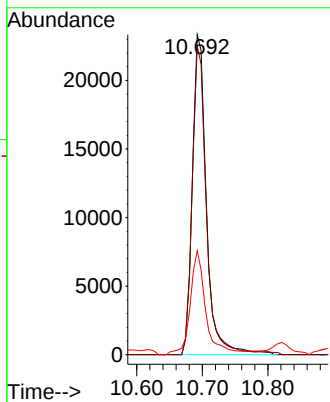
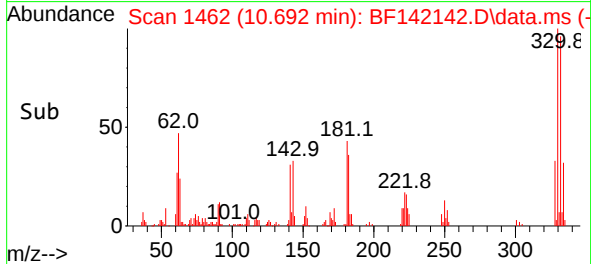
Instrument :
BNA_F
ClientSampleId :
TP-2



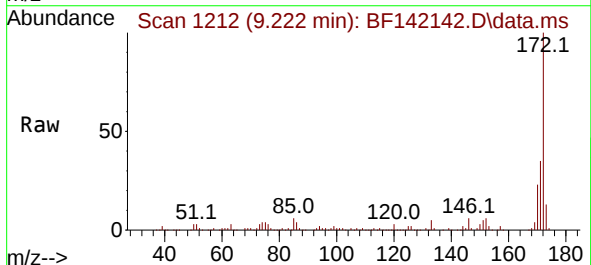
Tgt Ion: 330 Resp: 34825
Ion Ratio Lower Upper
330 100
332 96.4 77.6 116.4
141 36.1 24.7 37.1

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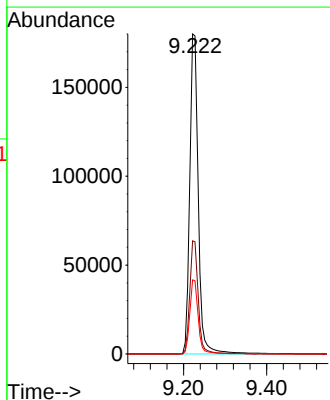
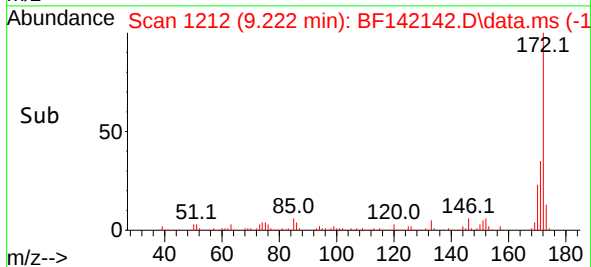
Reviewed By :Anahy Claudio 03/28/2025
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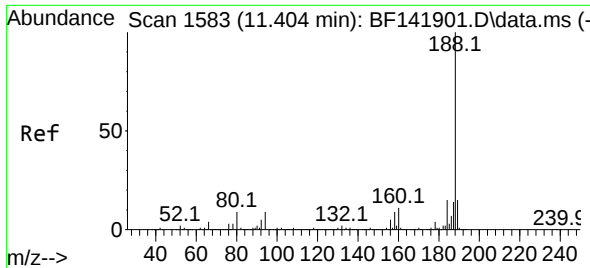


#45
2-Fluorobiphenyl
Concen: 11.836 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.018 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39



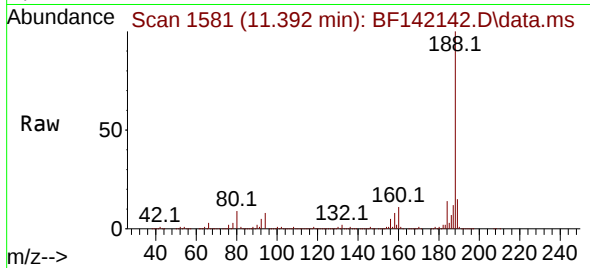
Tgt Ion: 172 Resp: 255934
Ion Ratio Lower Upper
172 100
171 35.4 29.3 43.9
170 23.1 19.4 29.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

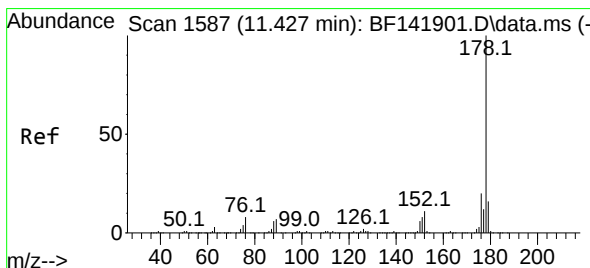
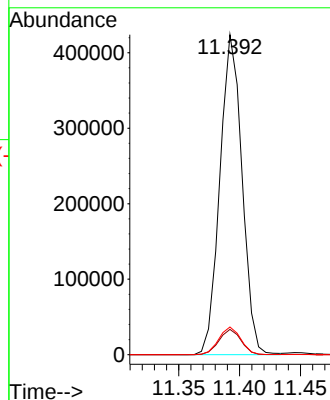
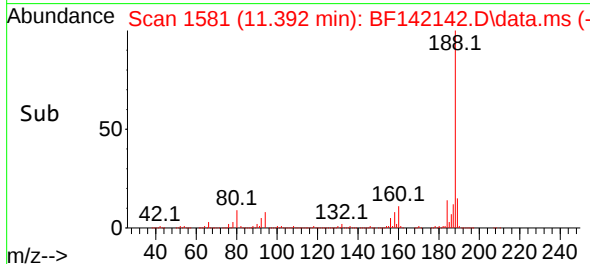
Instrument :
BNA_F
ClientSampleId :
TP-2



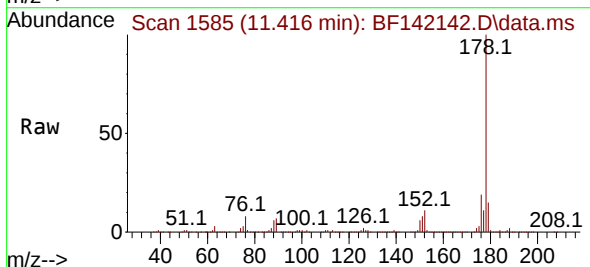
Tgt Ion:188 Resp: 53781
Ion Ratio Lower Upper
188 100
94 7.9 6.8 10.2
80 8.6 7.6 11.4

Manual Integrations
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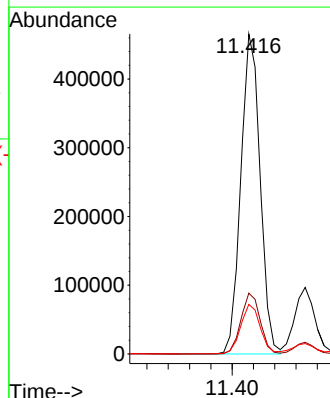
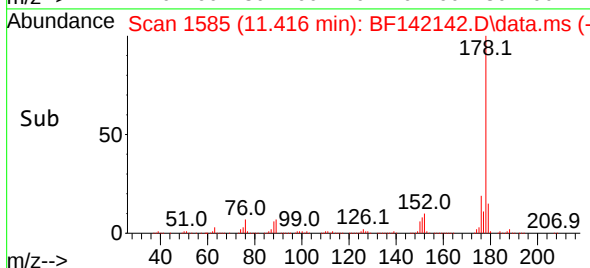
Reviewed By :Anahy Claudio 03/28/2025
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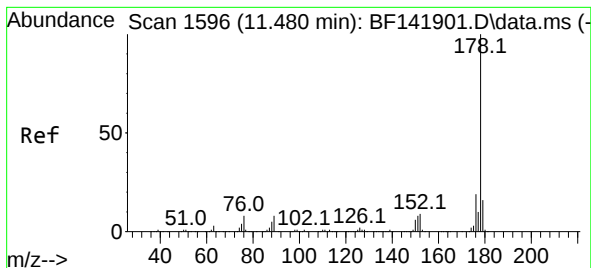


#71
Phenanthrene
Concen: 20.180 ng
RT: 11.416 min Scan# 1585
Delta R.T. -0.012 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39



Tgt Ion:178 Resp: 586218
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.8
179 15.5 12.6 19.0





#72

Anthracene

Concen: 4.281 ng

RT: 11.469 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142142.D

Acq: 27 Mar 2025 23:39

Instrument :

BNA_F

ClientSampleId :

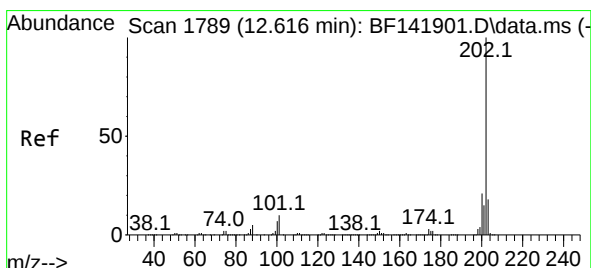
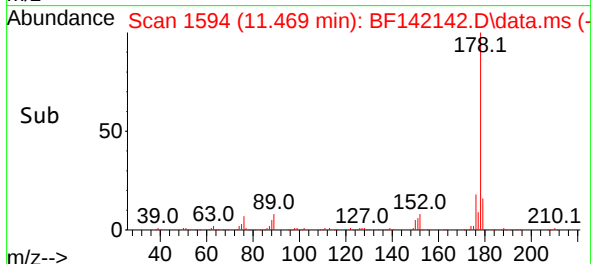
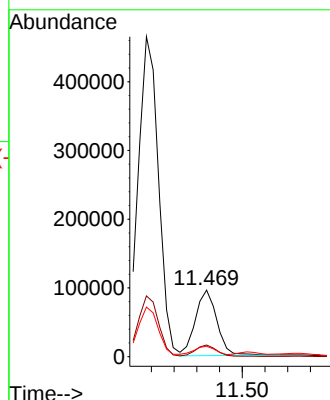
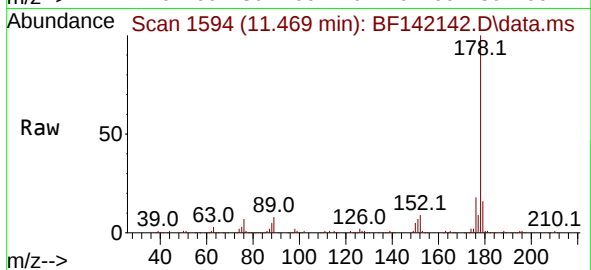
TP-2

Tgt Ion:178 Resp: 124754
 Ion Ratio Lower Upper
 178 100
 176 17.6 15.1 22.7
 179 15.8 12.6 19.0

Manual Integrations

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Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025



#75

Fluoranthene

Concen: 27.619 ng

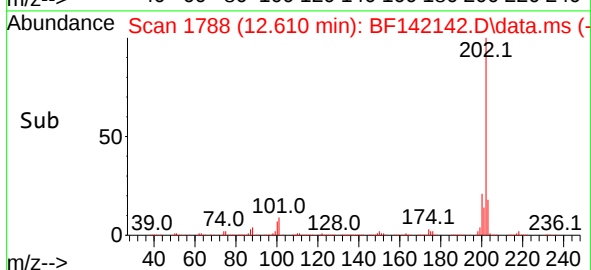
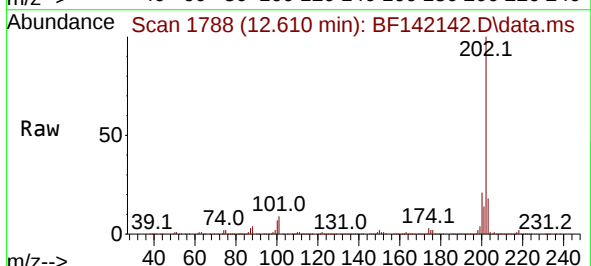
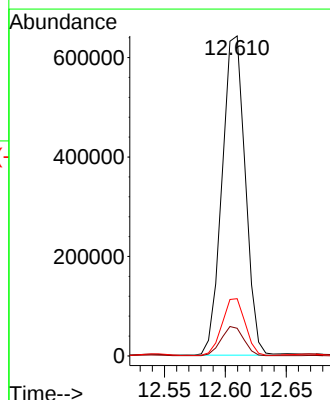
RT: 12.610 min Scan# 1788

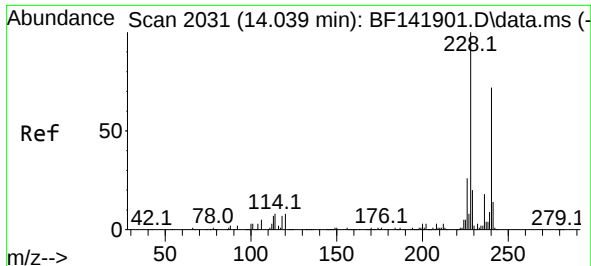
Delta R.T. -0.006 min

Lab File: BF142142.D

Acq: 27 Mar 2025 23:39

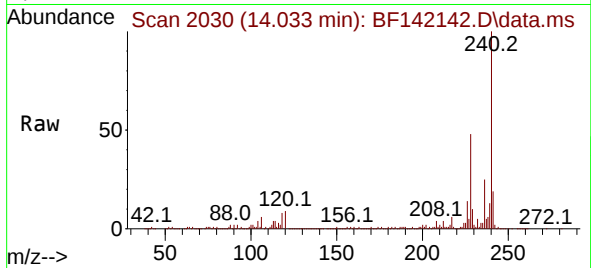
Tgt Ion:202 Resp: 851066
 Ion Ratio Lower Upper
 202 100
 101 8.6 0.0 29.7
 203 17.9 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

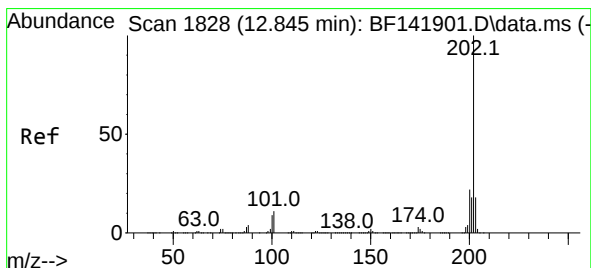
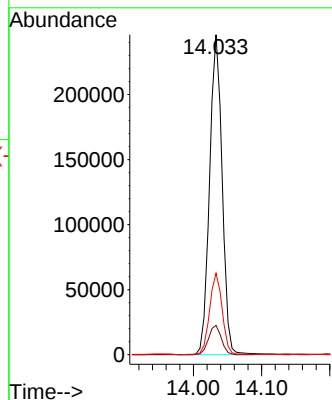
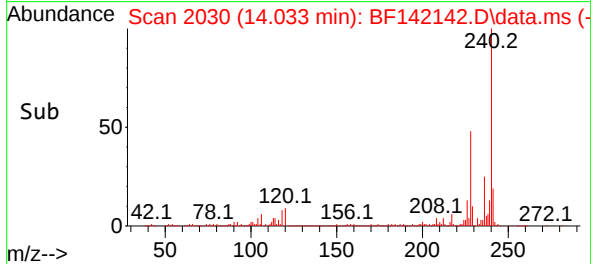
Instrument :
BNA_F
ClientSampleId :
TP-2



Tgt Ion:240 Resp: 31584
Ion Ratio Lower Upper
240 100
120 9.2 8.4 12.6
236 25.4 20.5 30.7

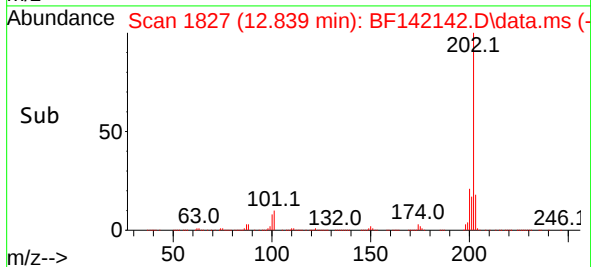
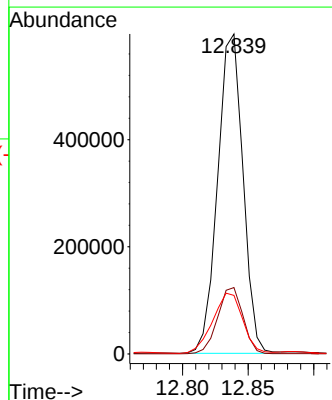
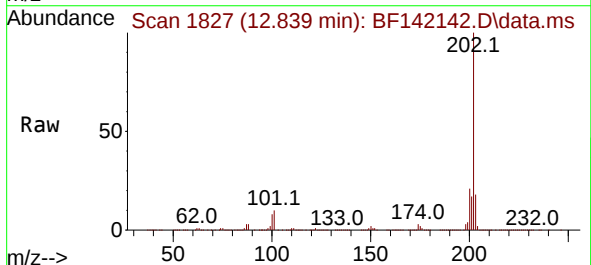
Manual Integrations
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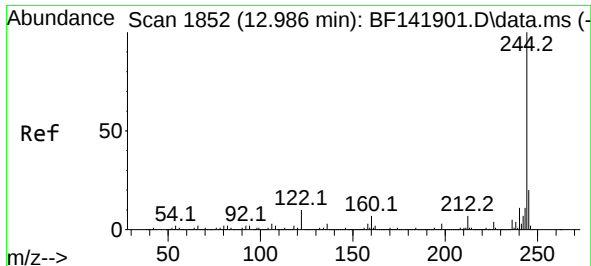
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#78
Pyrene
Concen: 29.280 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

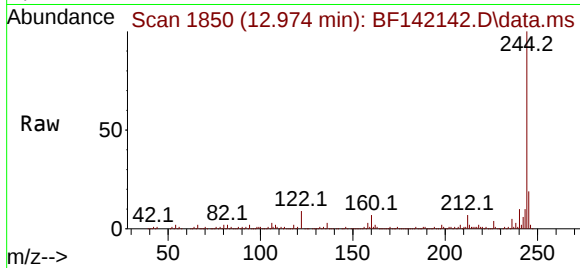
Tgt Ion:202 Resp: 799957
Ion Ratio Lower Upper
202 100
200 20.7 17.3 25.9
203 18.3 14.4 21.6





#79
 Terphenyl-d14
 Concen: 10.771 ng
 RT: 12.974 min Scan# 1850
 Delta R.T. -0.012 min
 Lab File: BF142142.D
 Acq: 27 Mar 2025 23:39

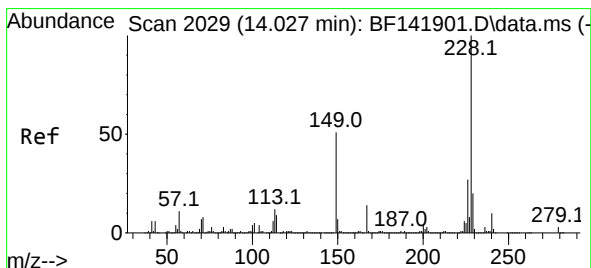
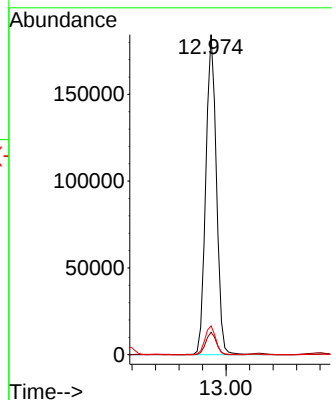
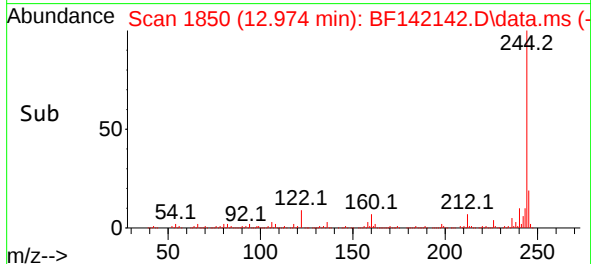
Instrument :
 BNA_F
 ClientSampleId :
 TP-2



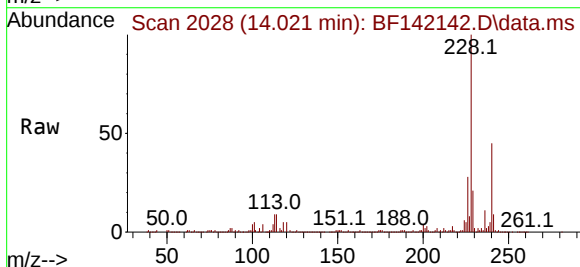
Tgt Ion:244 Resp: 230092
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.0 9.0
 122 9.0 7.7 11.5

Manual Integrations
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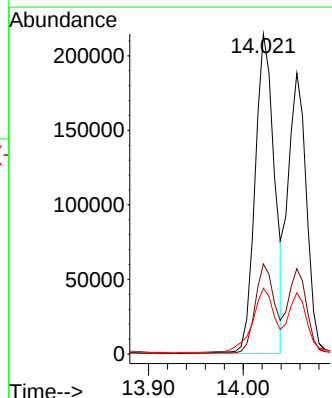
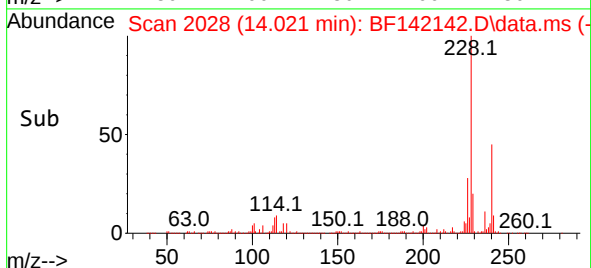
Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025

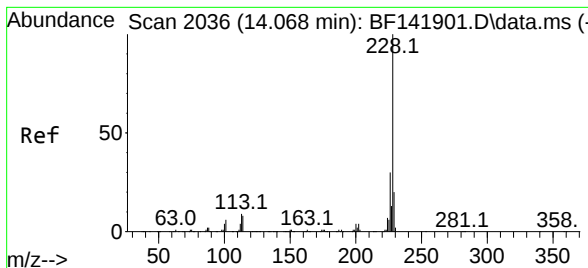


#81
 Benzo(a)anthracene
 Concen: 14.729 ng
 RT: 14.021 min Scan# 2028
 Delta R.T. -0.006 min
 Lab File: BF142142.D
 Acq: 27 Mar 2025 23:39



Tgt Ion:228 Resp: 305262
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.8 32.8
 229 20.5 16.0 24.0





#83

Chrysene

Concen: 13.380 ng

RT: 14.057 min Scan# 2036

Delta R.T. -0.012 min

Lab File: BF142142.D

Acq: 27 Mar 2025 23:39

Instrument :

BNA_F

ClientSampleId :

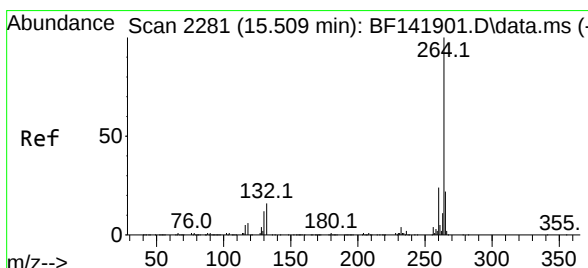
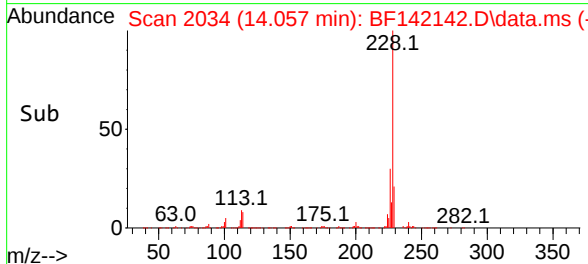
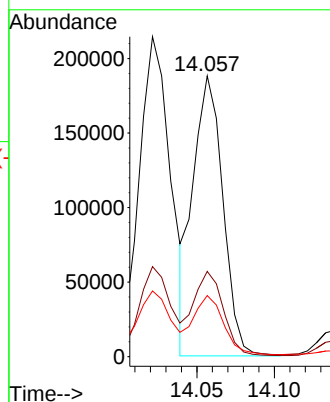
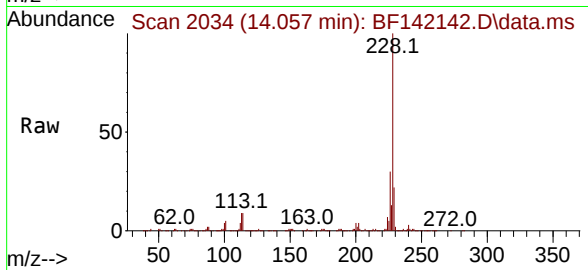
TP-2

Tgt Ion:228 Resp: 25137
 Ion Ratio Lower Upper
 228 100
 226 30.4 24.1 36.1
 229 21.8 15.7 23.5

Manual Integrations

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Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025



#86

Perylene-d12

Concen: 20.000 ng

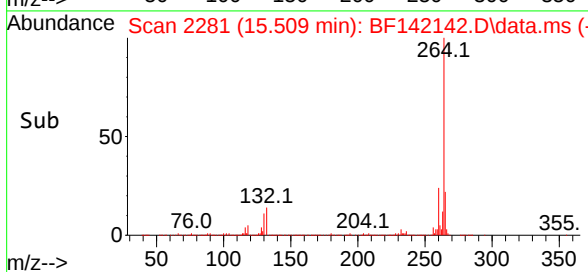
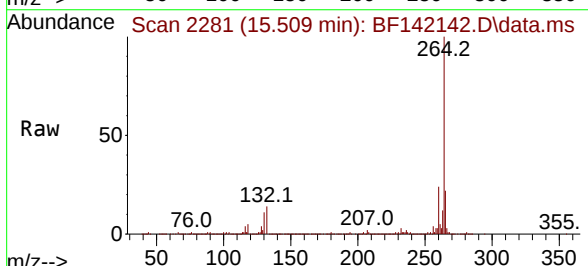
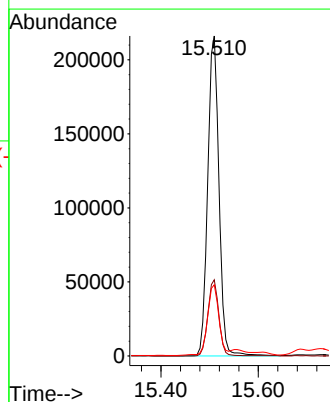
RT: 15.509 min Scan# 2281

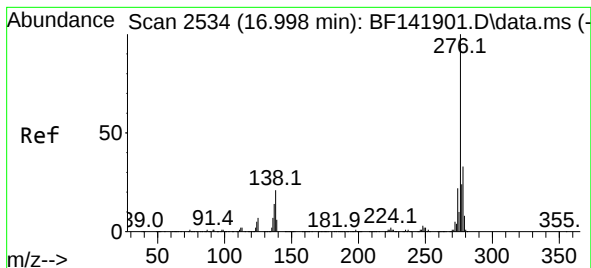
Delta R.T. 0.000 min

Lab File: BF142142.D

Acq: 27 Mar 2025 23:39

Tgt Ion:264 Resp: 345026
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.1 28.7
 265 22.2 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.202 ng m

RT: 16.986 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142142.D

Acq: 27 Mar 2025 23:39

Instrument :

BNA_F

ClientSampleId :

TP-2

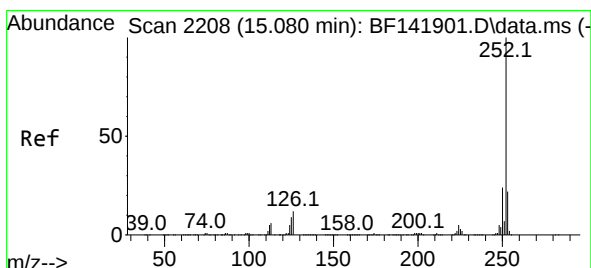
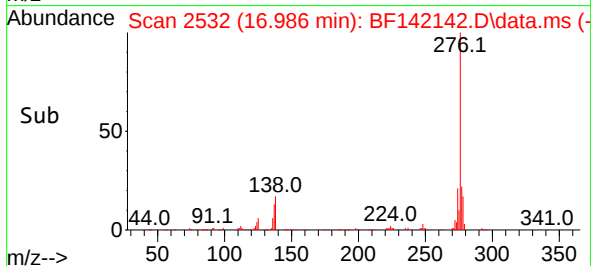
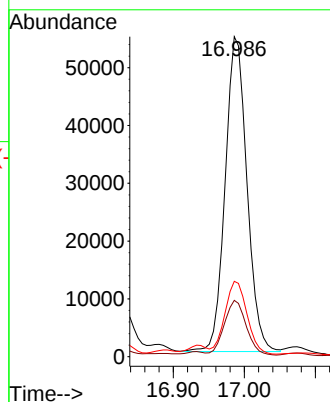
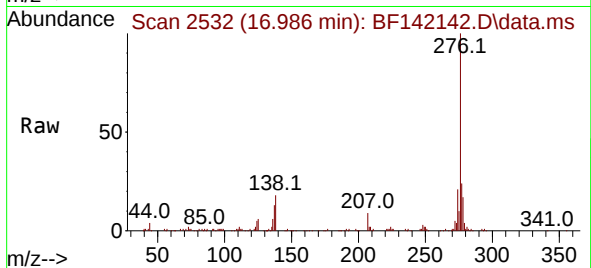
Tgt Ion:276 Resp: 11611
 Ion Ratio Lower Upper
 276 100
 138 3.7 18.4 27.6
 277 4.7 20.3 30.5

Manual Integrations

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Reviewed By :Anahy Claudio 03/28/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#88

Benzo(b)fluoranthene

Concen: 12.489 ng m

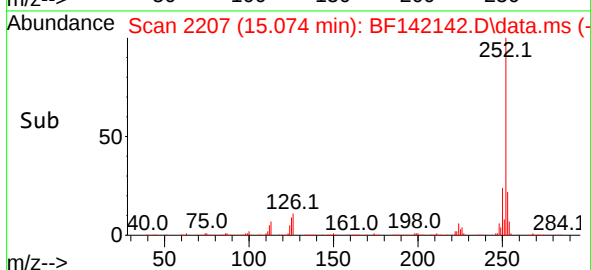
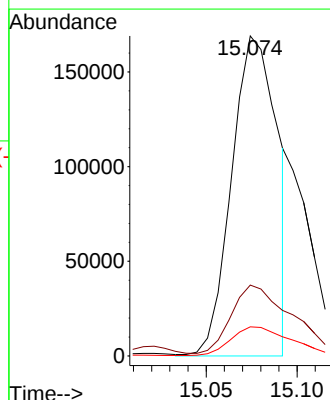
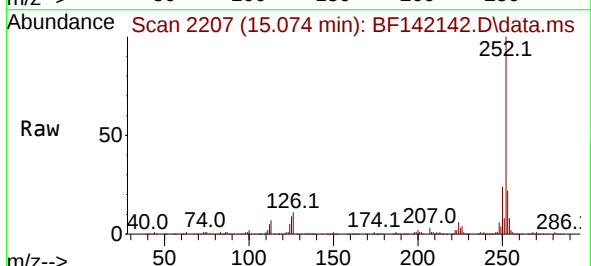
RT: 15.074 min Scan# 2207

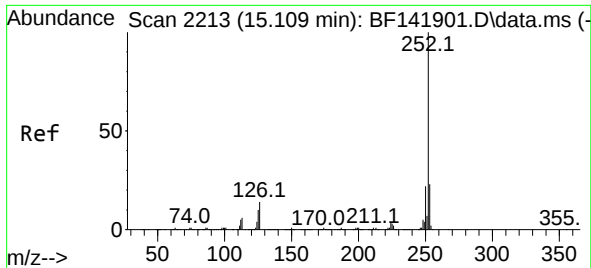
Delta R.T. -0.006 min

Lab File: BF142142.D

Acq: 27 Mar 2025 23:39

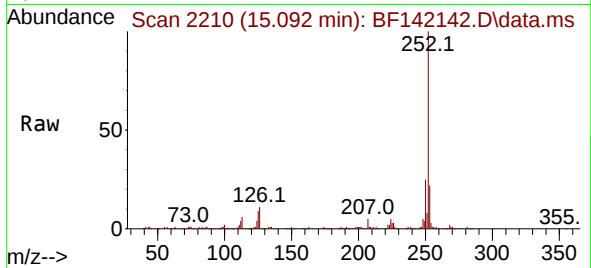
Tgt Ion:252 Resp: 295330
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.5 26.3
 125 9.1 7.0 10.4





#89
Benzo(k)fluoranthene
Concen: 4.783 ng m
RT: 15.092 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

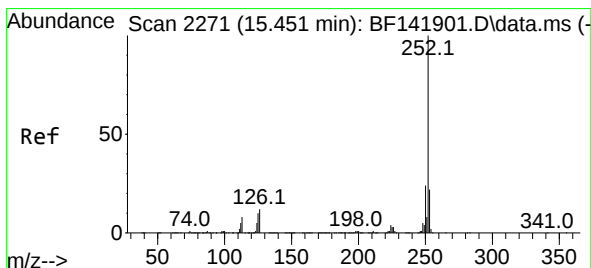
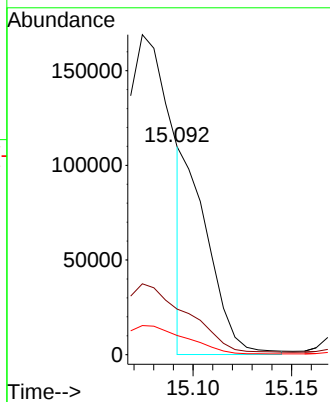
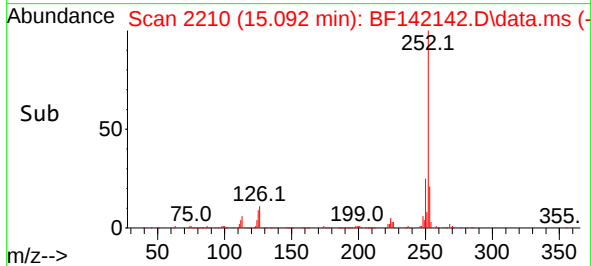
Instrument :
BNA_F
ClientSampleId :
TP-2



Tgt Ion:252 Resp: 96792
Ion Ratio Lower Upper
252 100
253 21.9 17.7 26.5
125 9.2 7.2 10.8

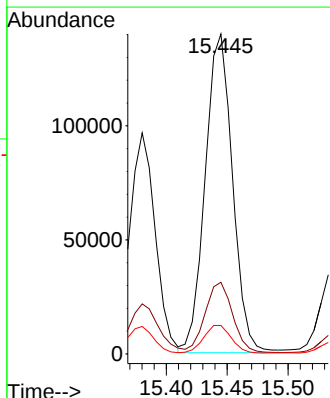
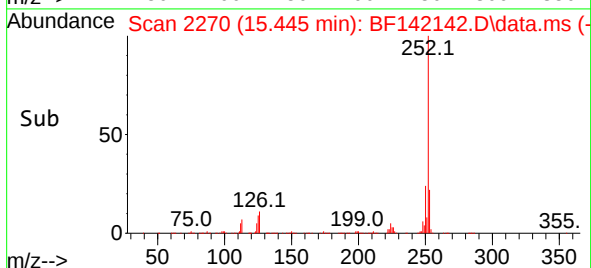
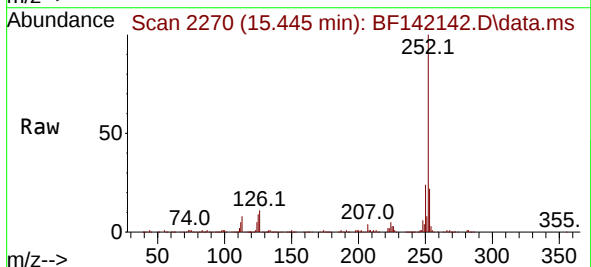
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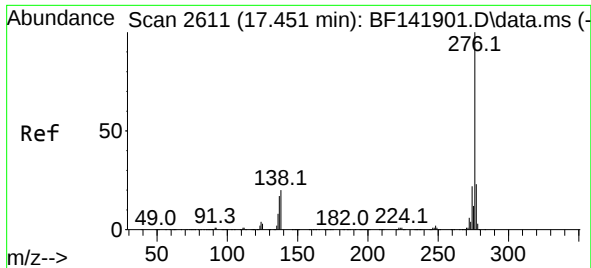
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#90
Benzo(a)pyrene
Concen: 11.823 ng
RT: 15.445 min Scan# 2270
Delta R.T. -0.006 min
Lab File: BF142142.D
Acq: 27 Mar 2025 23:39

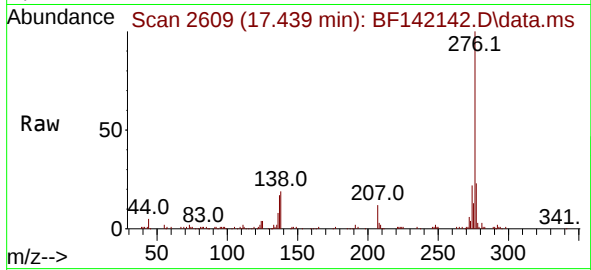
Tgt Ion:252 Resp: 218760
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 8.9 7.8 11.8





#92
 Benzo(g,h,i)perylene
 Concen: 5.712 ng
 RT: 17.439 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF142142.D
 Acq: 27 Mar 2025 23:39

Instrument :
 BNA_F
 ClientSampleId :
 TP-2



Tgt Ion:276 Resp: 103944
 Ion Ratio Lower Upper
 276 100
 277 23.4 18.7 28.1
 138 18.5 15.8 23.8

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Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025

