

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141852.D
 Acq On : 05 Mar 2025 19:20
 Operator : RC/JU
 Sample : Q1484-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-OTR-COMP-01

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 06 00:14:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	173695	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	641194	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	303278	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	445095	20.000	ng	0.00
76) Chrysene-d12	14.039	240	402725	20.000	ng	-0.01
86) Perylene-d12	15.510	264	310064	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	1027386	94.460	ng	0.00
7) Phenol-d6	6.498	99	1273174	89.935	ng	-0.01
23) Nitrobenzene-d5	7.440	82	789636	78.718	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	258326	90.729	ng	-0.02
45) 2-Fluorobiphenyl	9.234	172	1283964	67.884	ng	-0.01
79) Terphenyl-d14	12.986	244	1240322	49.829	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.945	154	105800	6.138	ng	99
55) Dibenzofuran	10.122	168	71583	2.853	ng	96
58) Fluorene	10.463	166	151770	8.076	ng	99
71) Phenanthrene	11.428	178	1526746	64.127	ng	99
72) Anthracene	11.475	178	501990	21.038	ng	99
73) Carbazole	11.628	167	121364	5.760	ng	99
75) Fluoranthene	12.616	202	2172183	89.041	ng	98
78) Pyrene	12.845	202	1761908	50.523	ng	98
81) Benzo(a)anthracene	14.027	228	1168660	43.933	ng	99
83) Chrysene	14.063	228	811522	33.095	ng	97
87) Indeno(1,2,3-cd)pyrene	16.992	276	264515m	13.397	ng	
88) Benzo(b)fluoranthene	15.080	252	845492m	40.031	ng	
89) Benzo(k)fluoranthene	15.098	252	296435m	16.513	ng	
90) Benzo(a)pyrene	15.451	252	549599	32.447	ng	97
91) Dibenzo(a,h)anthracene	17.004	278	73288	4.547	ng	# 93
92) Benzo(g,h,i)perylene	17.439	276	214542	12.994	ng	98

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

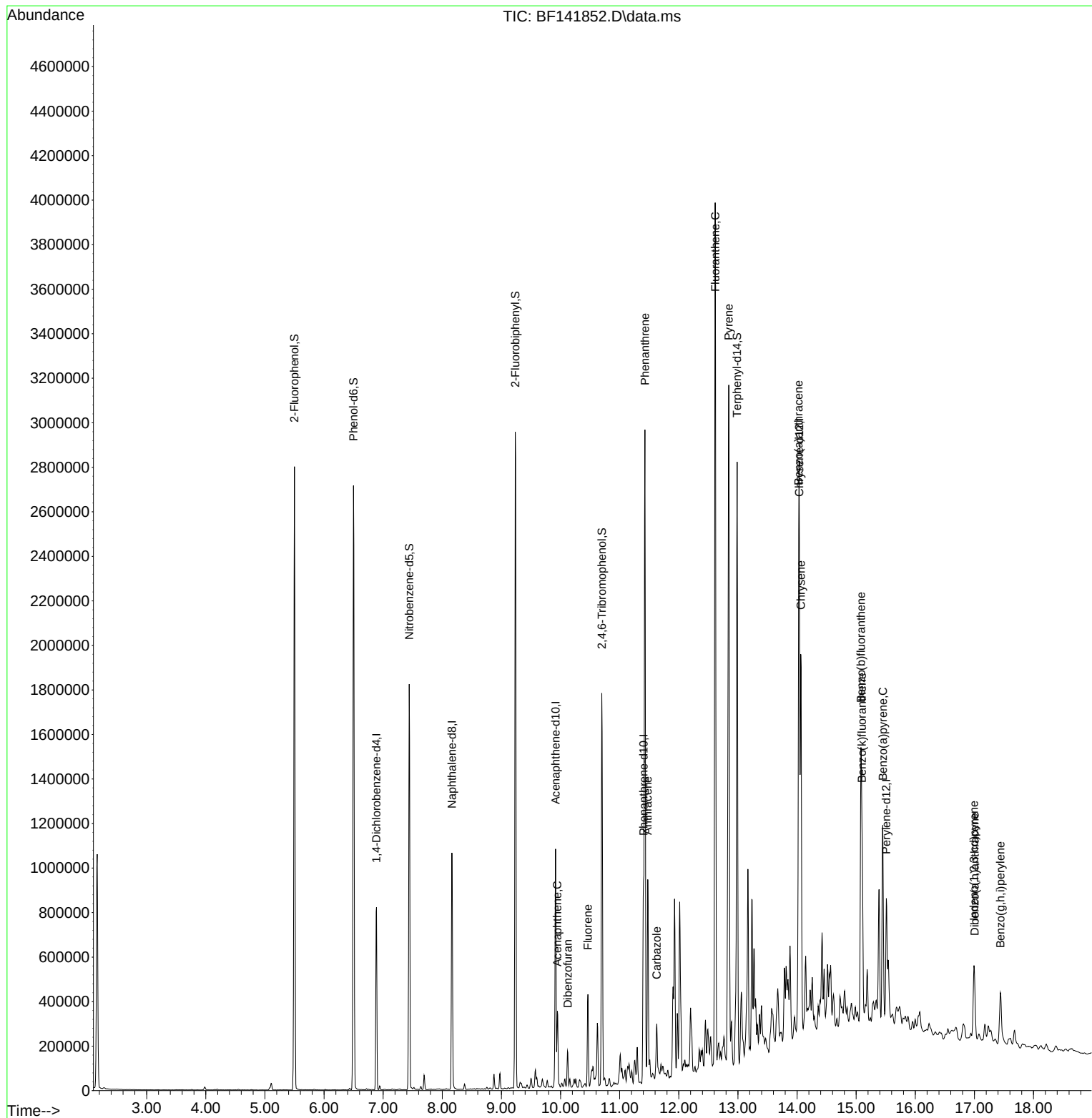
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Data File : BF141852.D
Acq On : 05 Mar 2025 19:20
Operator : RC/JU
Sample : Q1484-01
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ALS Vial : 19 Sample Multiplier: 1

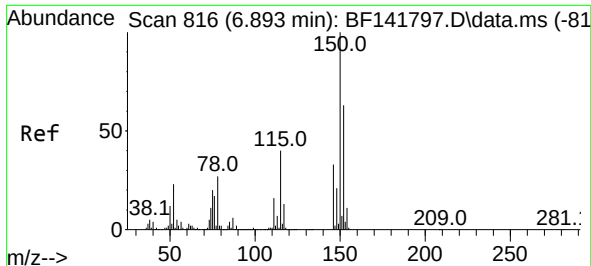
Instrument :
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ClientSampleId :
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Quant Time: Mar 06 00:14:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
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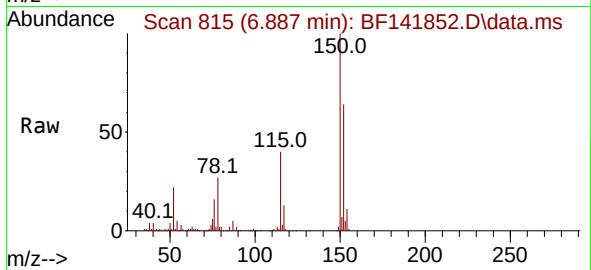
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

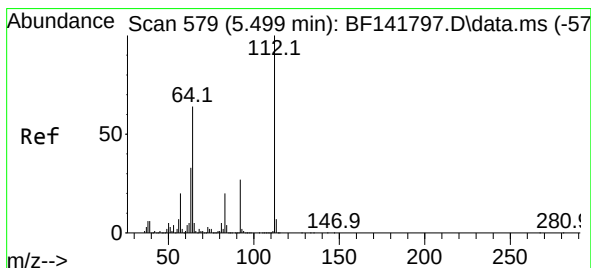
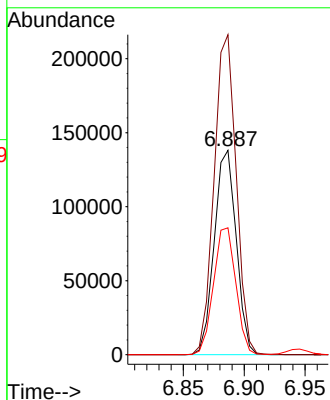
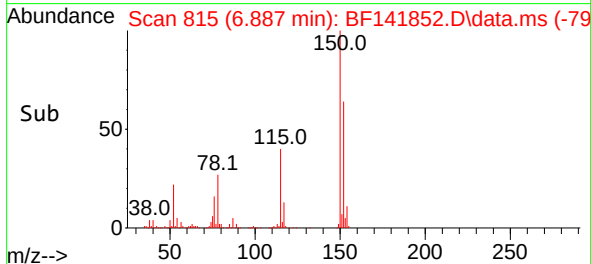
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01



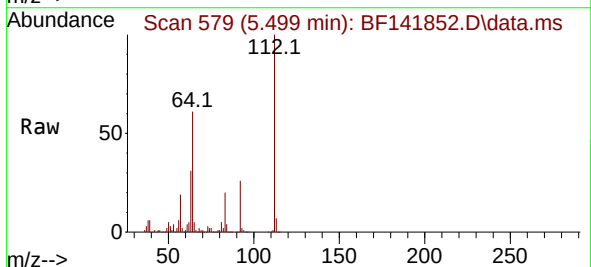
Tgt Ion:152 Resp: 17369
Ion Ratio Lower Upper
152 100
150 156.7 127.5 191.3
115 62.1 51.4 77.2

Manual Integrations
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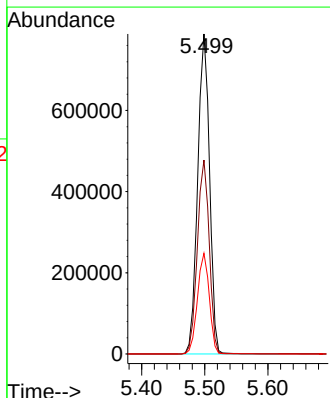
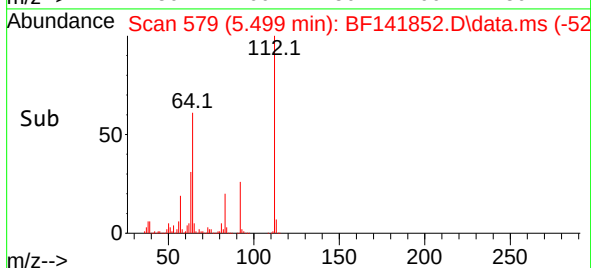
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

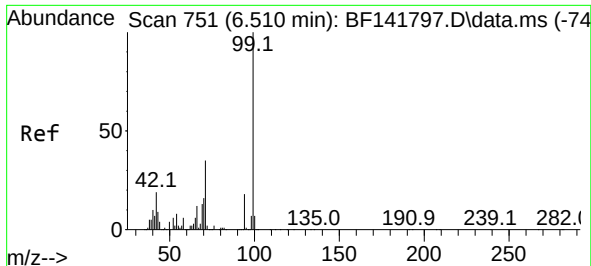


#5
2-Fluorophenol
Concen: 94.460 ng
RT: 5.499 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20



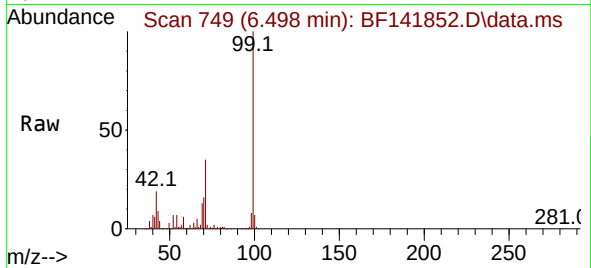
Tgt Ion:112 Resp: 1027386
Ion Ratio Lower Upper
112 100
64 60.6 51.3 76.9
63 31.5 26.2 39.4





#7
Phenol-d6
Concen: 89.935 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

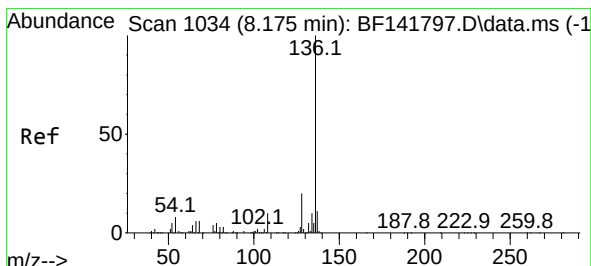
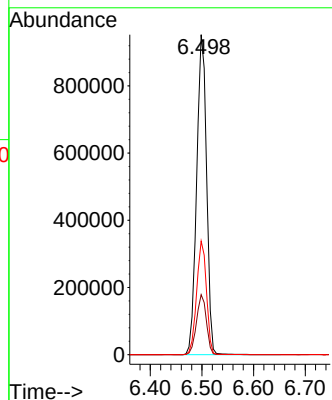
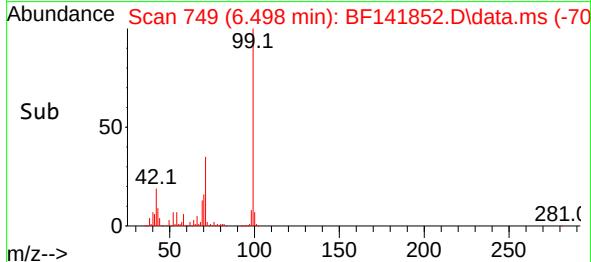
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 99 Resp: 1273174
Ion Ratio Lower Upper
99 100
42 18.8 15.2 22.8
71 35.5 28.2 42.2

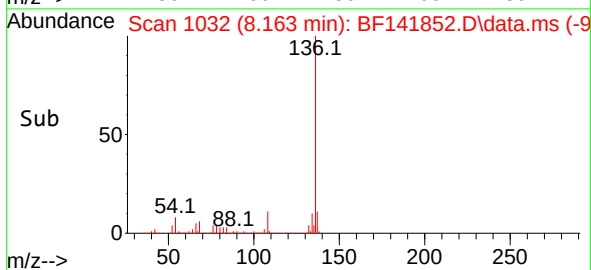
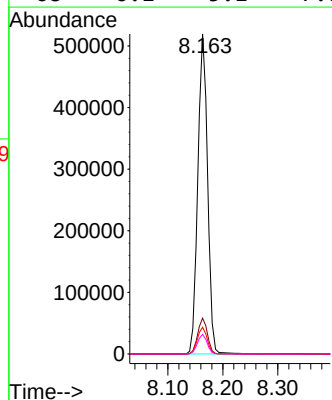
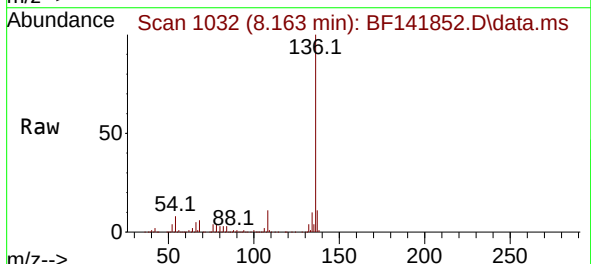
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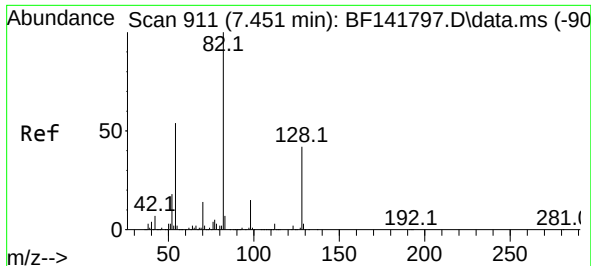
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

Tgt Ion:136 Resp: 641194
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 8.4 6.9 10.3
68 6.1 5.1 7.7





#23

Nitrobenzene-d5

Concen: 78.718 ng

RT: 7.440 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01

Tgt Ion: 82 Resp: 789630

Ion Ratio Lower Upper

82 100

128 43.8 33.5 50.3

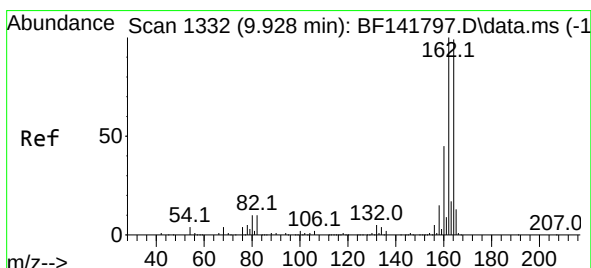
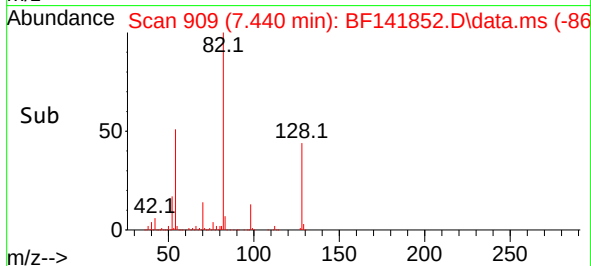
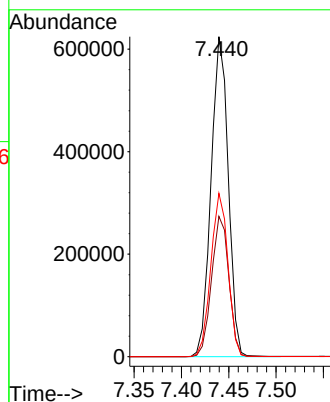
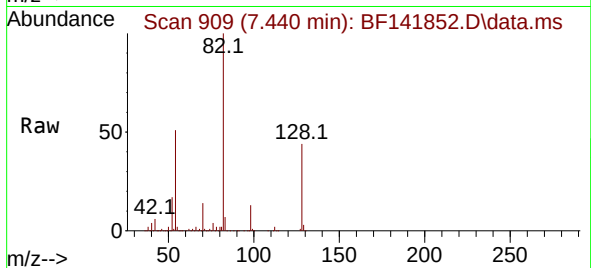
54 51.1 42.7 64.1

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

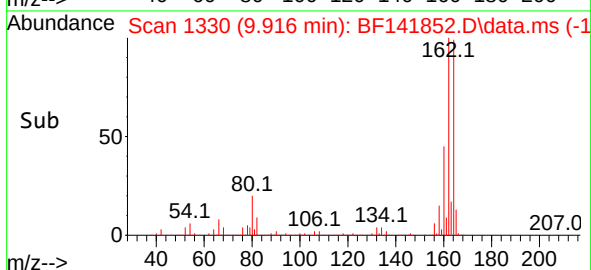
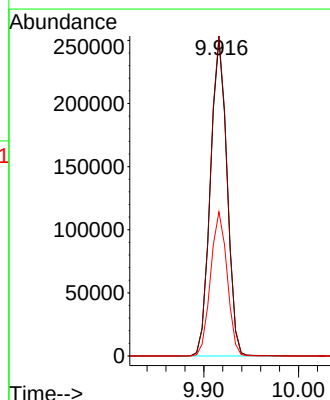
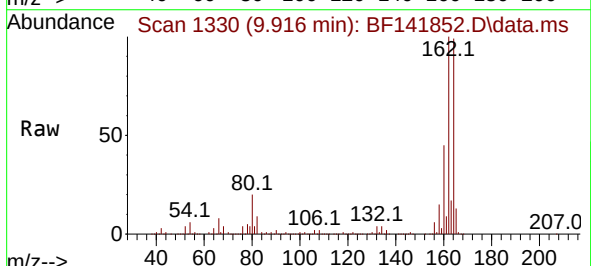
Tgt Ion:164 Resp: 303278

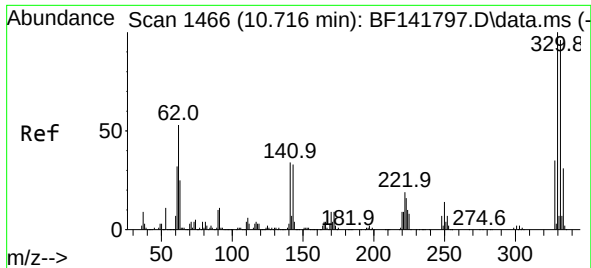
Ion Ratio Lower Upper

164 100

162 101.2 80.6 120.8

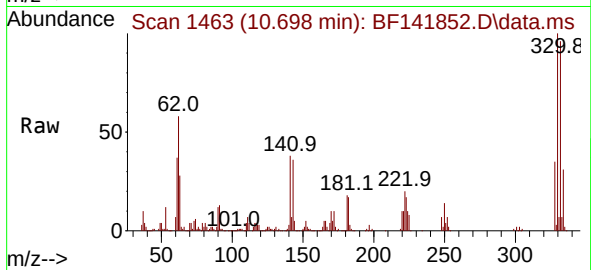
160 45.6 36.3 54.5





#42
2,4,6-Tribromophenol
Concen: 90.729 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.018 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

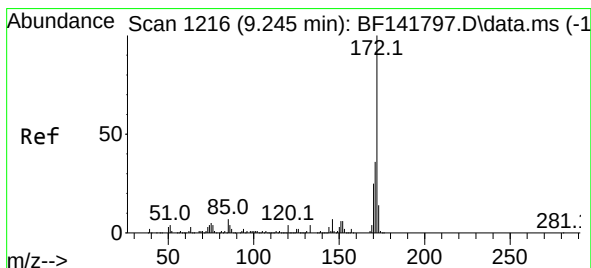
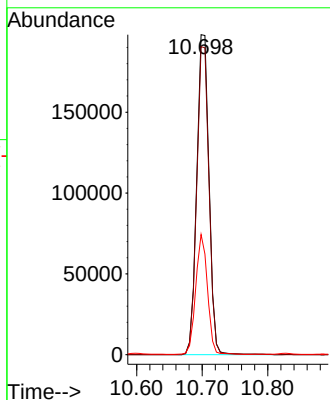
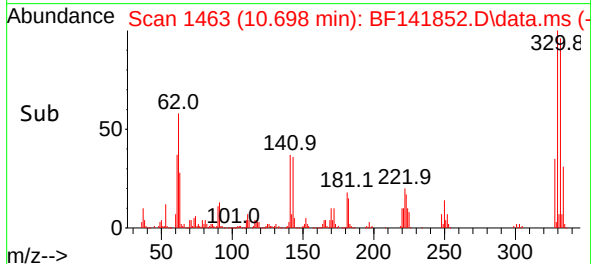
Instrument :
BNA_F
ClientSampleId :
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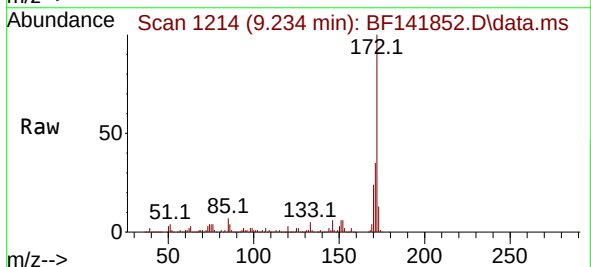
Tgt Ion: 330 Resp: 258320
Ion Ratio Lower Upper
330 100
332 96.1 76.6 115.0
141 35.8 29.0 43.4

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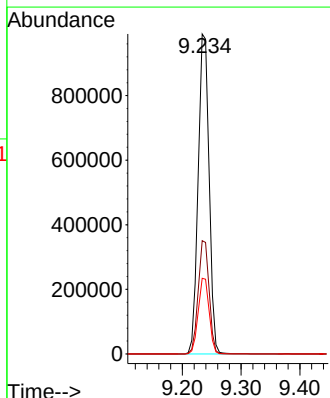
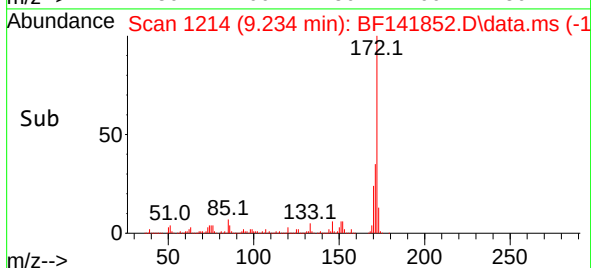
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

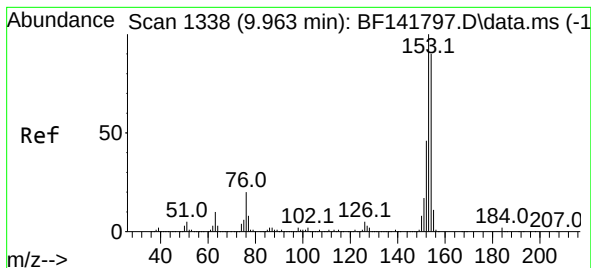


#45
2-Fluorobiphenyl
Concen: 67.884 ng
RT: 9.234 min Scan# 1214
Delta R.T. -0.012 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20



Tgt Ion: 172 Resp: 1283964
Ion Ratio Lower Upper
172 100
171 35.4 29.2 43.8
170 23.7 19.7 29.5





#52

Acenaphthene

Concen: 6.138 ng

RT: 9.945 min Scan# 1335

Delta R.T. -0.018 min

Lab File: BF141852.D

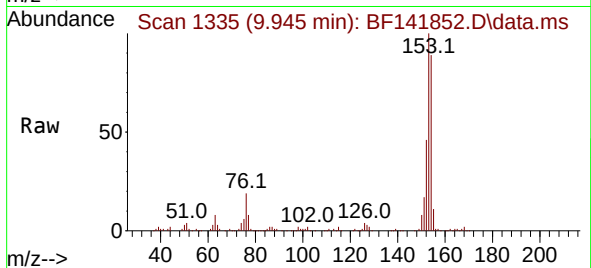
Acq: 05 Mar 2025 19:20

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01



Tgt Ion:154 Resp: 105800

Ion Ratio Lower Upper

154 100

153 112.2 88.7 133.1

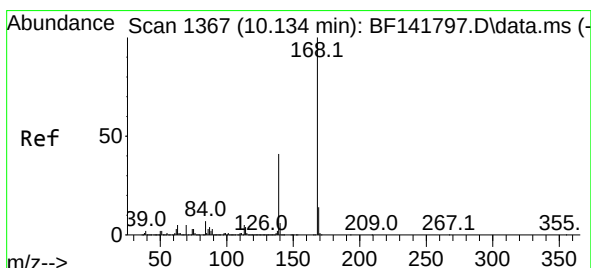
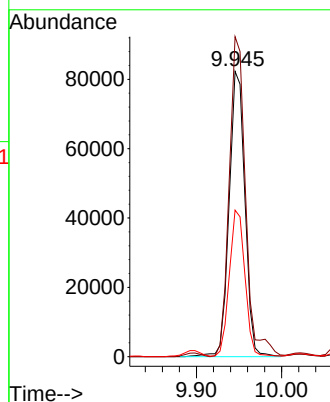
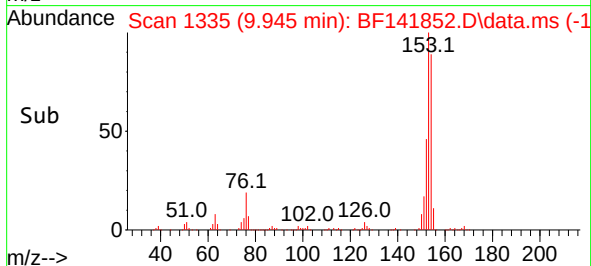
152 51.4 40.9 61.3

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



#55

Dibenzofuran

Concen: 2.853 ng

RT: 10.122 min Scan# 1365

Delta R.T. -0.012 min

Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

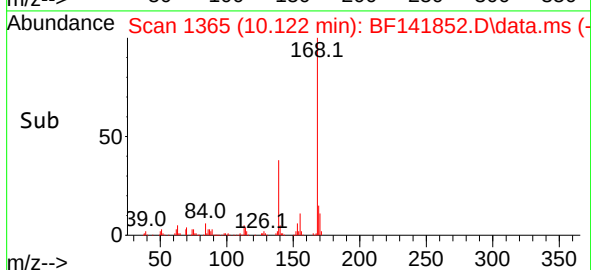
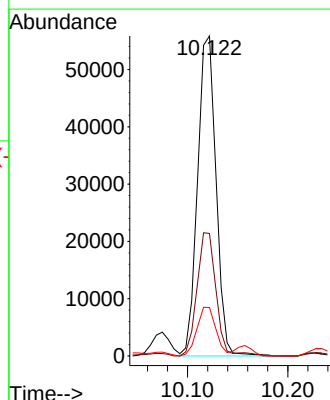
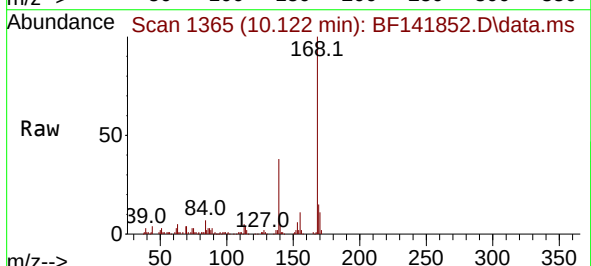
Tgt Ion:168 Resp: 71583

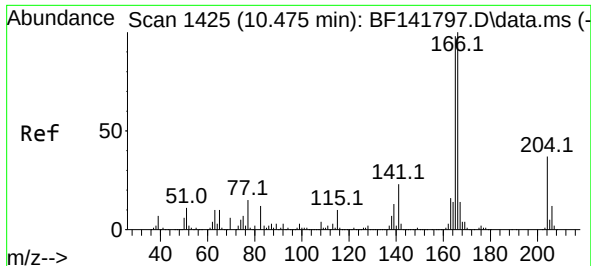
Ion Ratio Lower Upper

168 100

139 38.3 32.9 49.3

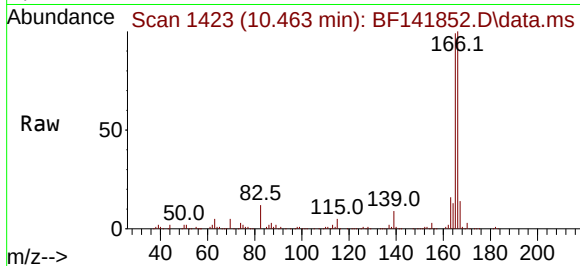
169 15.2 11.1 16.7





#58
Fluorene
Concen: 8.076 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.012 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

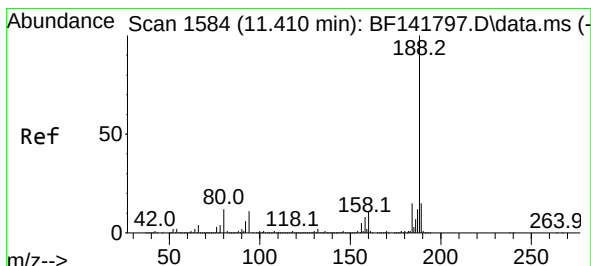
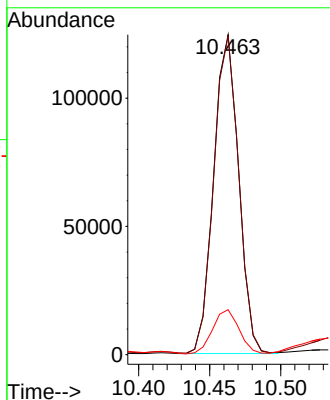
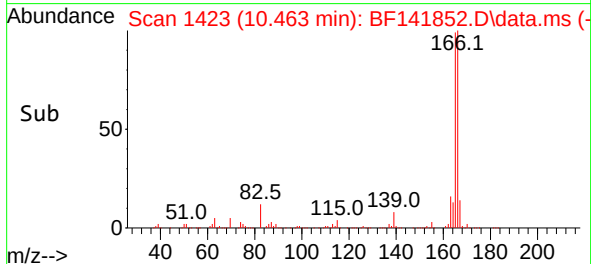
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01



Tgt Ion:166 Resp: 151770
Ion Ratio Lower Upper
166 100
165 99.5 78.6 117.8
167 14.1 11.0 16.4

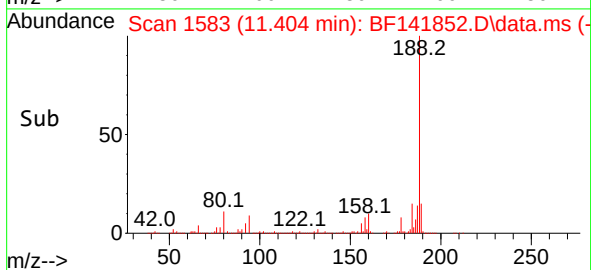
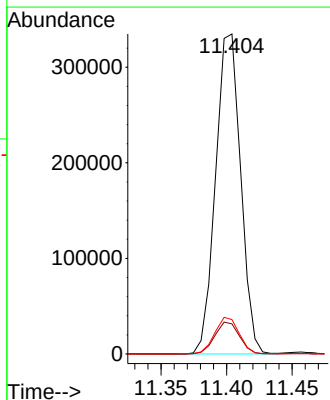
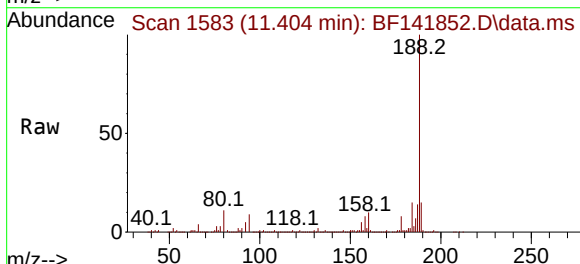
Manual Integrations
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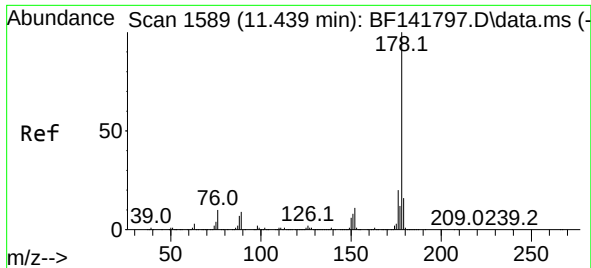
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

Tgt Ion:188 Resp: 445095
Ion Ratio Lower Upper
188 100
94 9.4 8.9 13.3
80 10.8 9.7 14.5





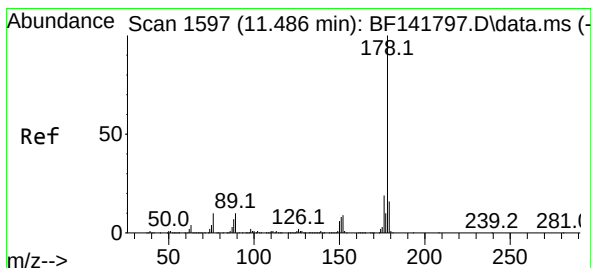
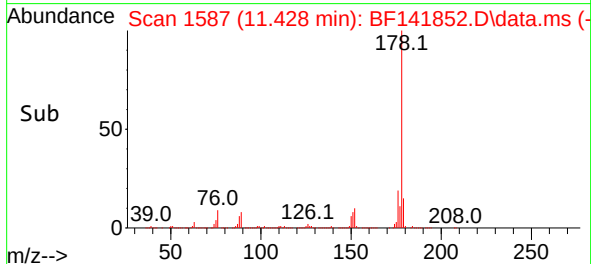
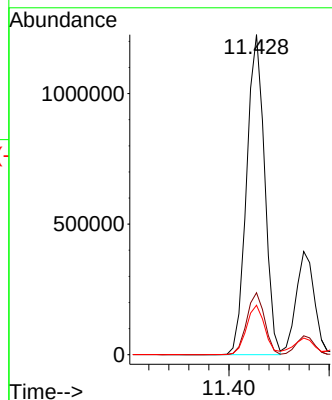
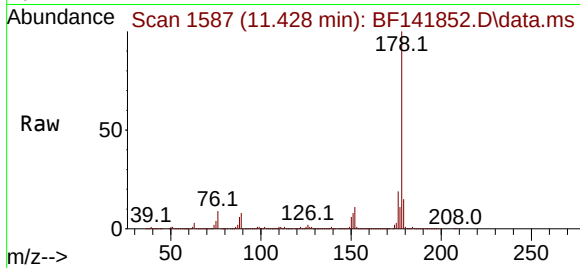
#71
Phenanthrene
Concen: 64.127 ng
RT: 11.428 min Scan# 1587
Delta R.T. -0.012 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01

Tgt Ion:178 Resp: 1526740
Ion Ratio Lower Upper
178 100
176 19.4 16.0 24.0
179 15.5 12.6 19.0

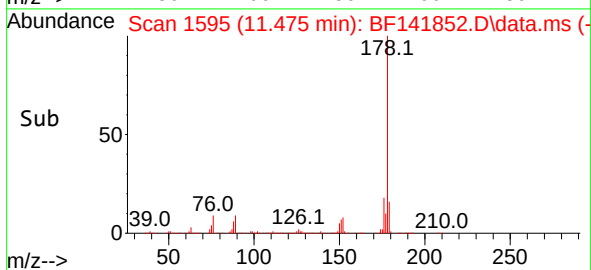
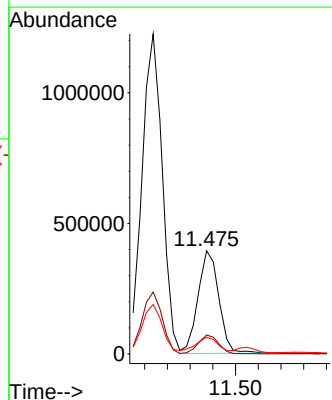
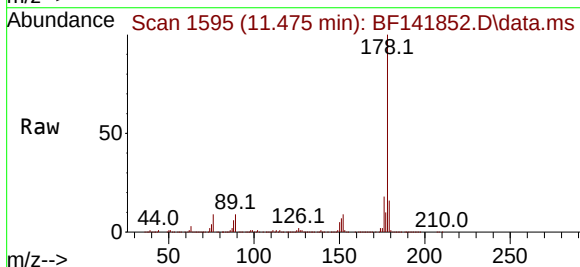
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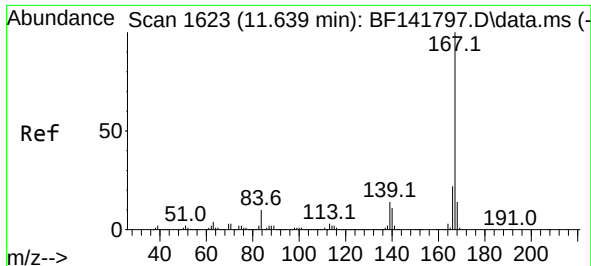
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#72
Anthracene
Concen: 21.038 ng
RT: 11.475 min Scan# 1595
Delta R.T. -0.012 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

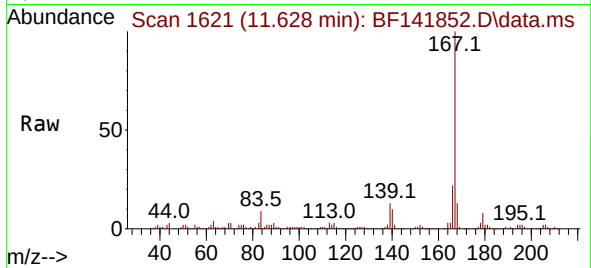
Tgt Ion:178 Resp: 501990
Ion Ratio Lower Upper
178 100
176 18.2 15.4 23.0
179 16.1 12.8 19.2





#73
 Carbazole
 Concen: 5.760 ng
 RT: 11.628 min Scan# 1621
 Delta R.T. -0.012 min
 Lab File: BF141852.D
 Acq: 05 Mar 2025 19:20

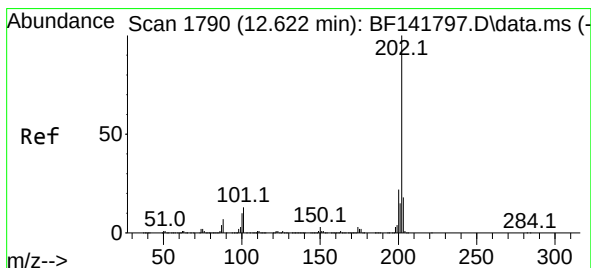
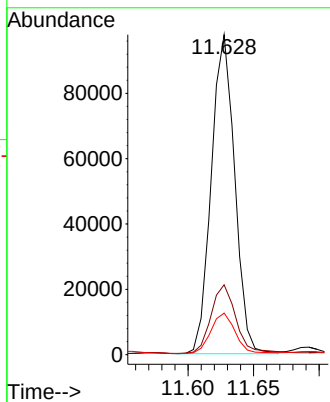
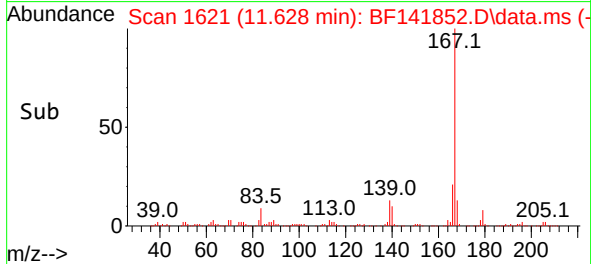
Instrument :
 BNA_F
 ClientSampleId :
 TR-OTR-COMP-01



Tgt Ion:167 Resp: 121364
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.5 26.3
 139 13.0 11.3 16.9

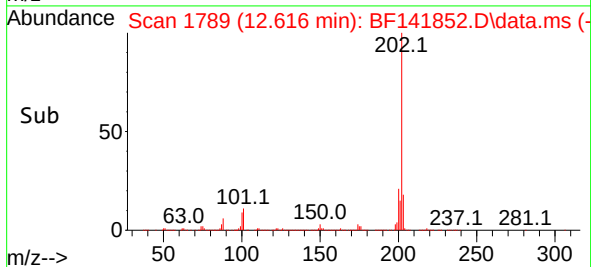
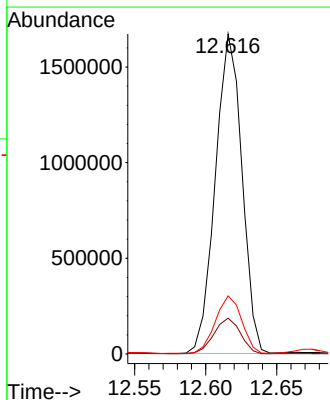
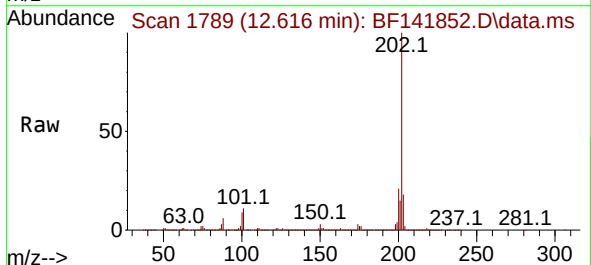
Manual Integrations
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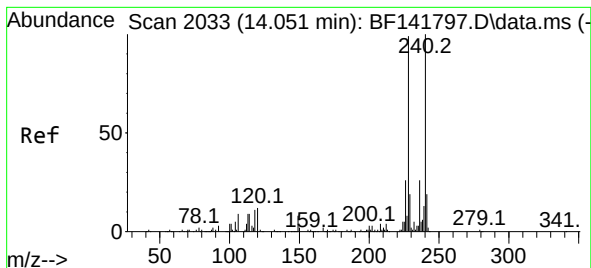
Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025



#75
 Fluoranthene
 Concen: 89.041 ng
 RT: 12.616 min Scan# 1789
 Delta R.T. -0.006 min
 Lab File: BF141852.D
 Acq: 05 Mar 2025 19:20

Tgt Ion:202 Resp: 2172183
 Ion Ratio Lower Upper
 202 100
 101 11.2 0.0 32.8
 203 18.2 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2033

Delta R.T. -0.012 min

Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

Instrument :

BNA_F

ClientSampleId :

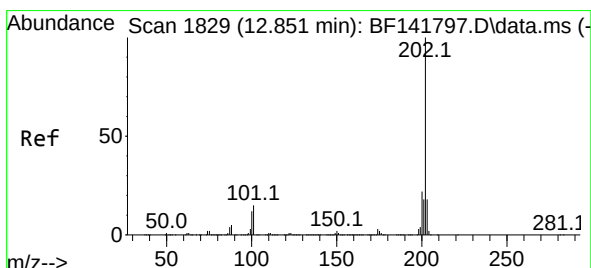
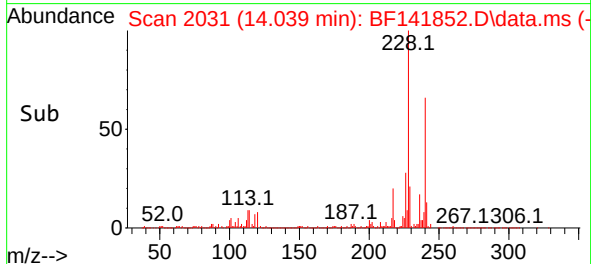
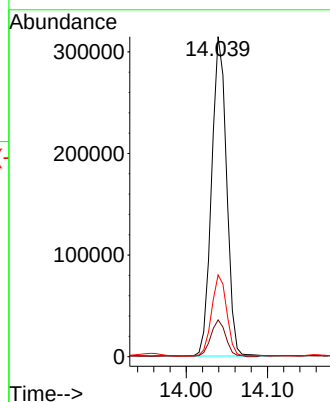
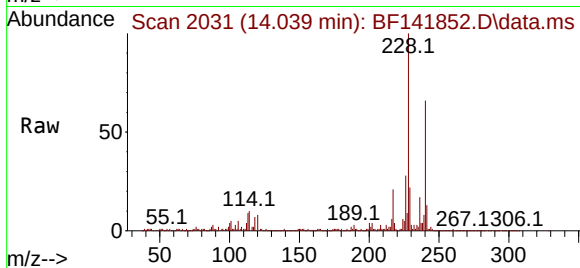
TR-OTR-COMP-01

Tgt Ion:240 Resp: 402725
 Ion Ratio Lower Upper
 240 100
 120 11.5 9.7 14.5
 236 25.6 21.0 31.4

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025



#78

Pyrene

Concen: 50.523 ng

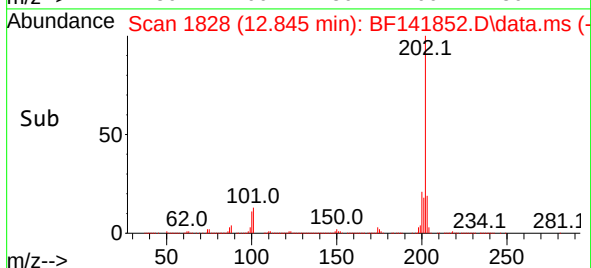
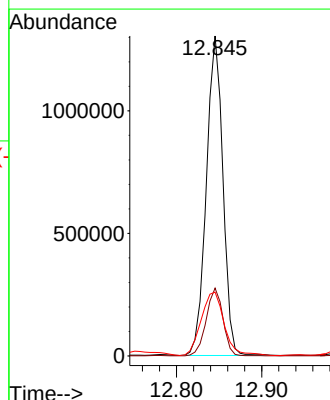
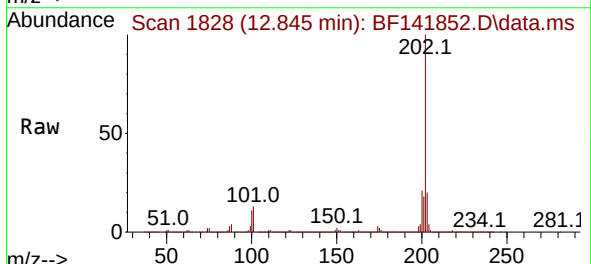
RT: 12.845 min Scan# 1828

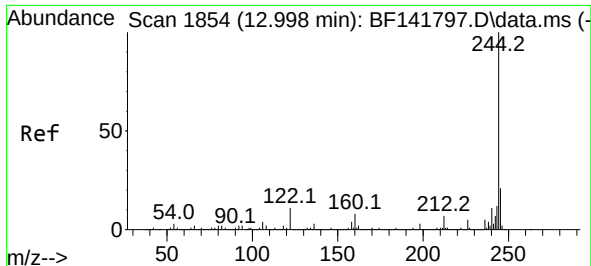
Delta R.T. -0.006 min

Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

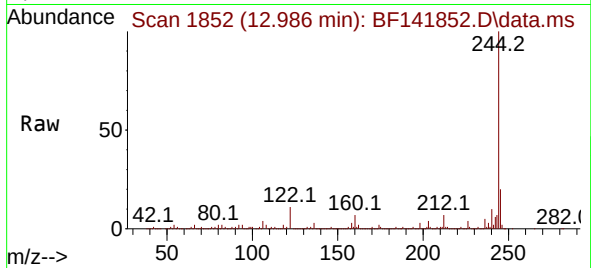
Tgt Ion:202 Resp: 1761908
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.4 26.0
 203 20.0 14.6 22.0





#79
 Terphenyl-d14
 Concen: 49.829 ng
 RT: 12.986 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF141852.D
 Acq: 05 Mar 2025 19:20

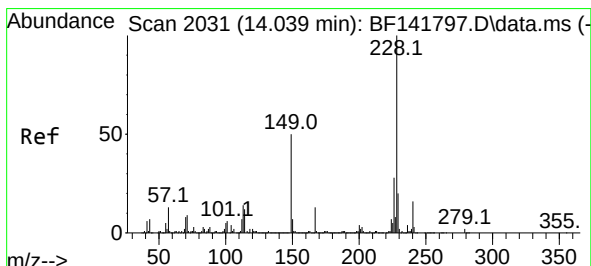
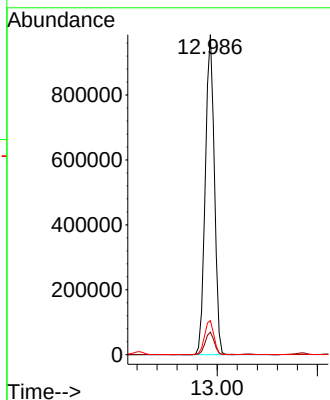
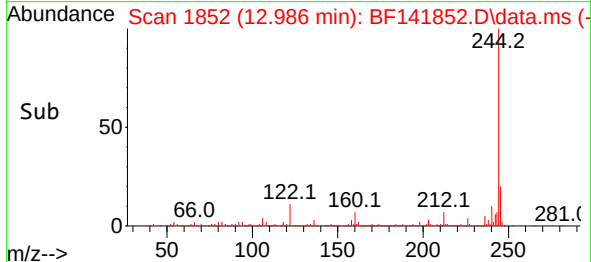
Instrument :
 BNA_F
 ClientSampleId :
 TR-OTR-COMP-01



Tgt Ion:244 Resp: 124032
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 10.7 9.0 13.6

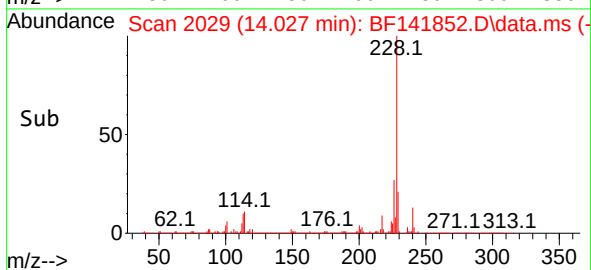
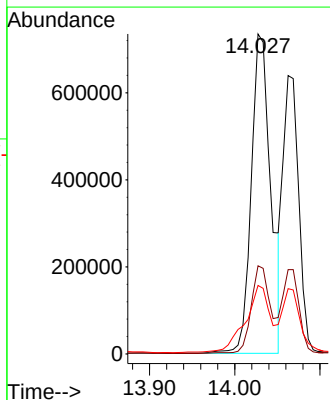
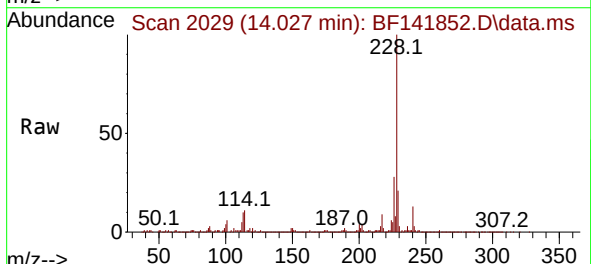
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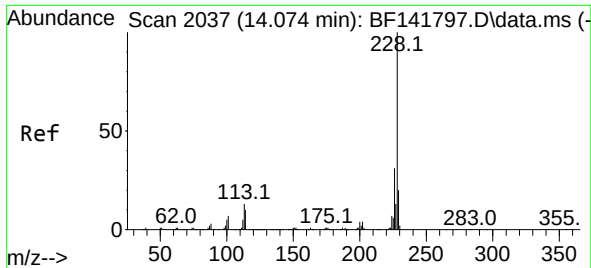
Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025



#81
 Benzo(a)anthracene
 Concen: 43.933 ng
 RT: 14.027 min Scan# 2029
 Delta R.T. -0.012 min
 Lab File: BF141852.D
 Acq: 05 Mar 2025 19:20

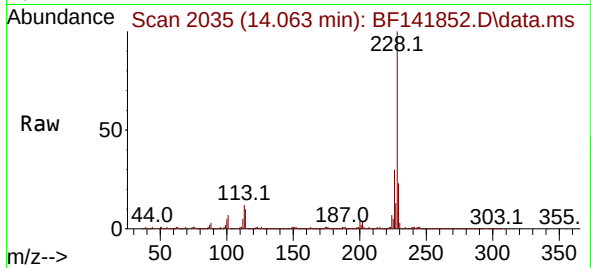
Tgt Ion:228 Resp: 1168660
 Ion Ratio Lower Upper
 228 100
 226 27.6 22.1 33.1
 229 21.4 16.1 24.1





#83
Chrysene
Concen: 33.095 ng
RT: 14.063 min Scan# 2035
Delta R.T. -0.012 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

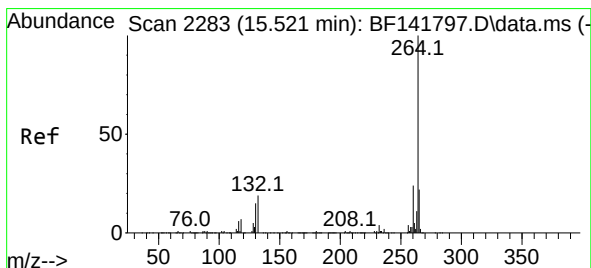
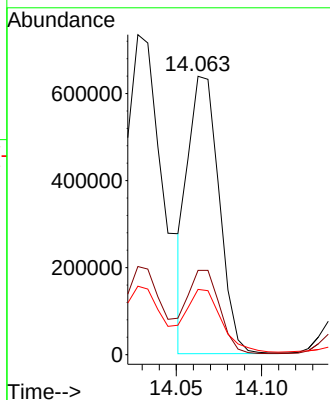
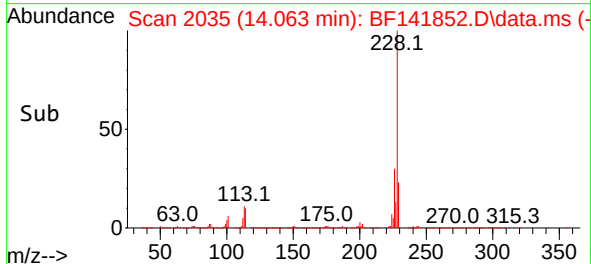
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01



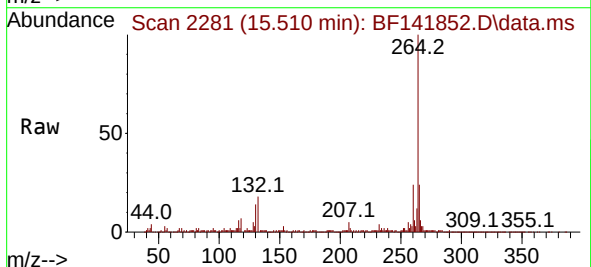
Tgt Ion:228 Resp: 81152
Ion Ratio Lower Upper
228 100
226 30.3 24.6 37.0
229 23.5 16.1 24.1

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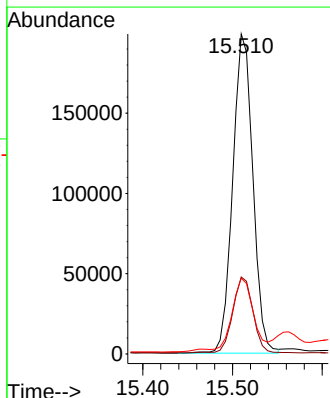
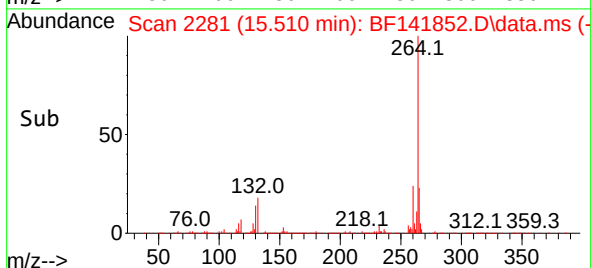
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

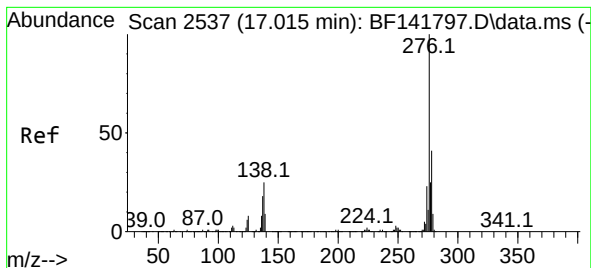


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20



Tgt Ion:264 Resp: 310064
Ion Ratio Lower Upper
264 100
260 24.0 18.9 28.3
265 23.7 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.397 ng m

RT: 16.992 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01

Tgt Ion:276 Resp: 26451

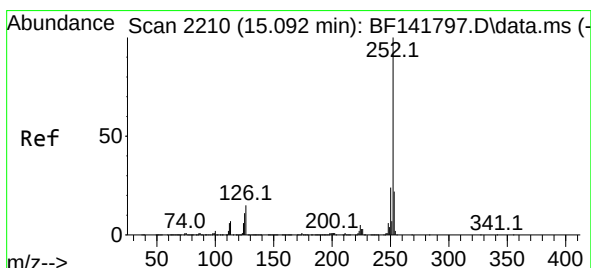
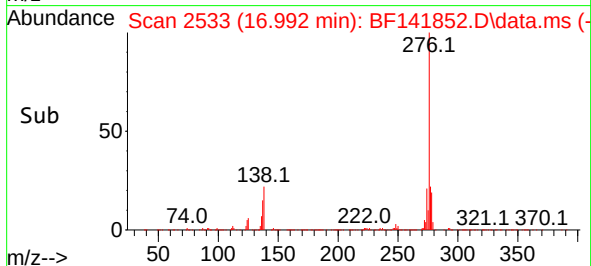
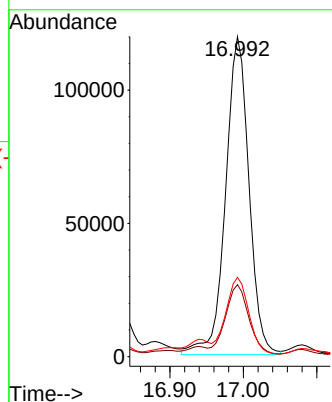
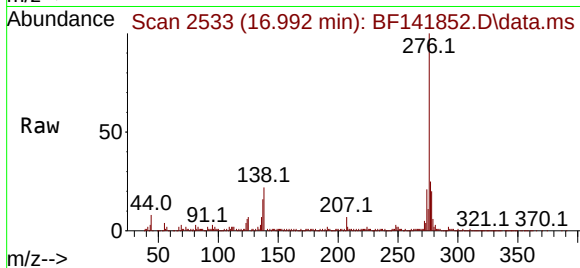
Ion	Ratio	Lower	Upper
276	100		
138	4.6	22.5	33.7
277	4.8	20.3	30.5

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



#88

Benzo(b)fluoranthene

Concen: 40.031 ng m

RT: 15.080 min Scan# 2208

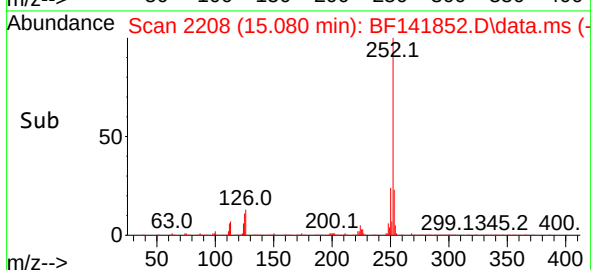
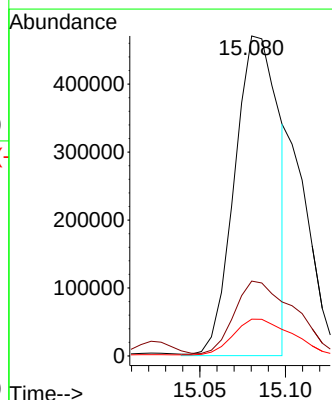
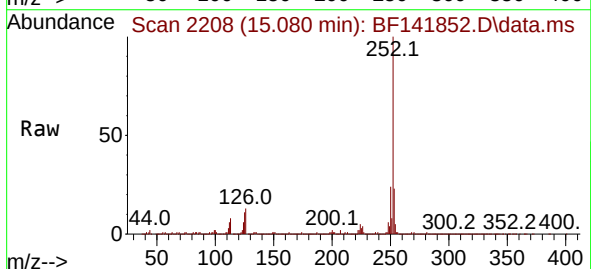
Delta R.T. -0.012 min

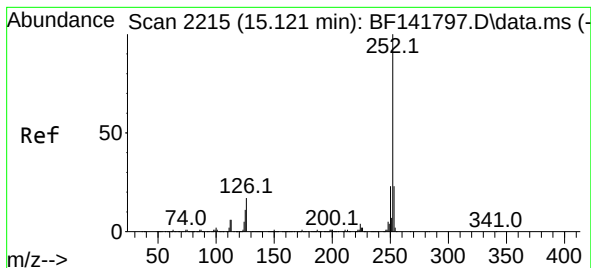
Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

Tgt Ion:252 Resp: 845492

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.7	26.5
125	11.5	8.6	13.0





#89

Benzo(k)fluoranthene

Concen: 16.513 ng m

RT: 15.098 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01

Tgt Ion:252 Resp: 29643

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

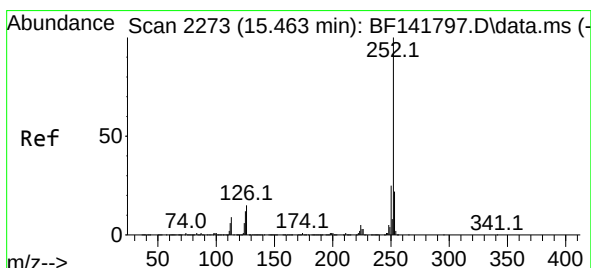
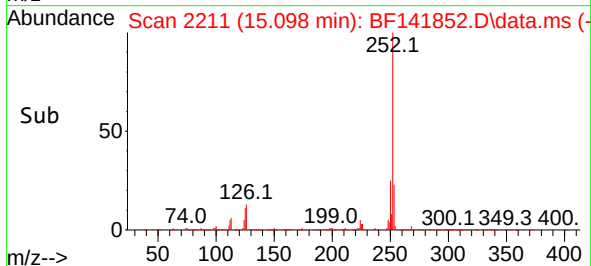
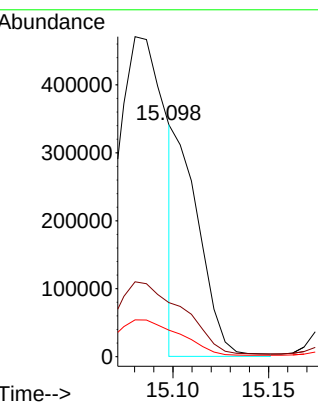
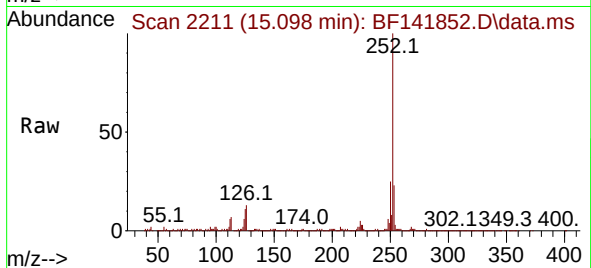
125 11.4 8.8 13.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



#90

Benzo(a)pyrene

Concen: 32.447 ng

RT: 15.451 min Scan# 2271

Delta R.T. -0.012 min

Lab File: BF141852.D

Acq: 05 Mar 2025 19:20

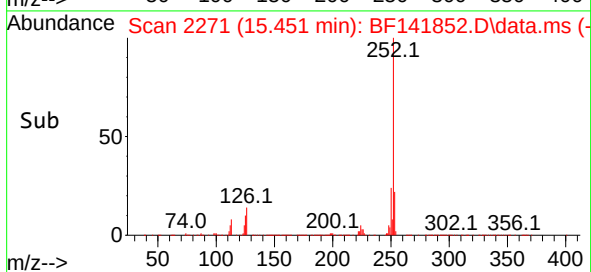
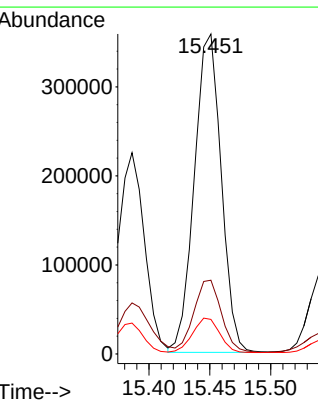
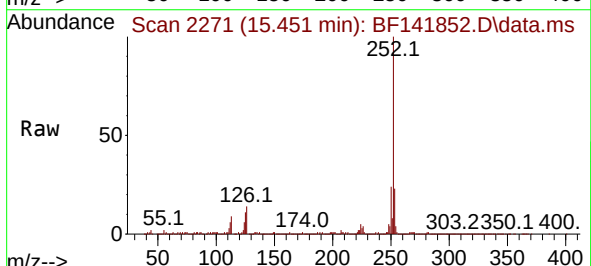
Tgt Ion:252 Resp: 549599

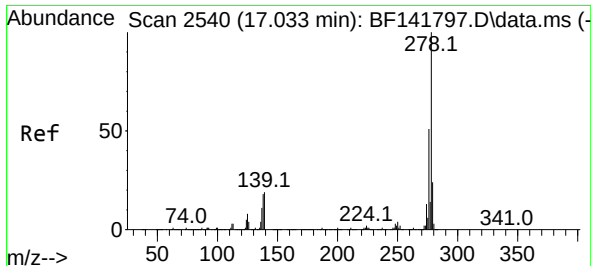
Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

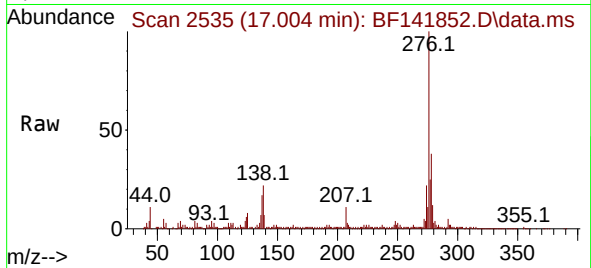
125 10.8 9.4 14.2





#91
Dibenzo(a,h)anthracene
Concen: 4.547 ng
RT: 17.004 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20

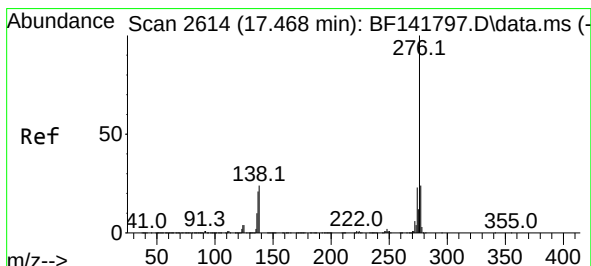
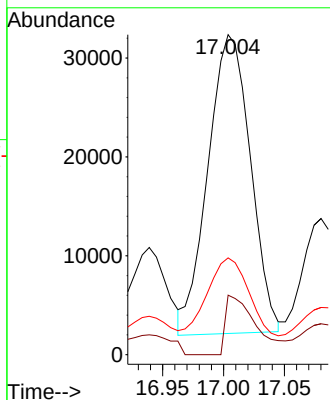
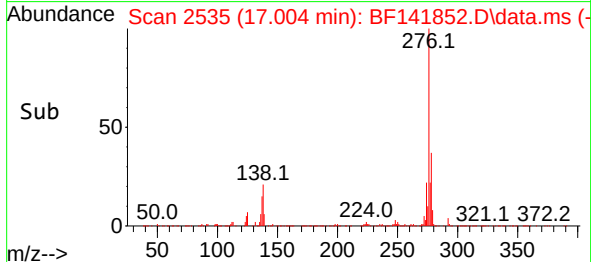
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01



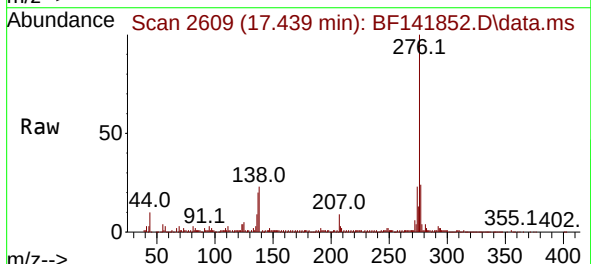
Tgt Ion:278 Resp: 7328
Ion Ratio Lower Upper
278 100
139 18.6 14.9 22.3
279 30.3 19.3 28.9

Manual Integrations
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Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#92
Benzo(g,h,i)perylene
Concen: 12.994 ng
RT: 17.439 min Scan# 2609
Delta R.T. -0.029 min
Lab File: BF141852.D
Acq: 05 Mar 2025 19:20



Tgt Ion:276 Resp: 214542
Ion Ratio Lower Upper
276 100
277 24.4 19.4 29.0
138 22.8 19.3 28.9

