

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
 Data File : BF141927.D
 Acq On : 11 Mar 2025 20:42
 Operator : RC/JU
 Sample : Q1507-01DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 50-MIDDLESEX-AVEDL

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/12/2025
 Supervised By :Jagrut Upadhyay 03/12/2025

Quant Time: Mar 12 01:17:12 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	6.881	152	131225	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	492460	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	255146	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	397084	20.000	ng	0.00
76) Chrysene-d12	14.039	240	335907	20.000	ng	0.00
86) Perylene-d12	15.509	264	243609	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	144904	18.429	ng	0.00
7) Phenol-d6	6.492	99	183452	18.325	ng	-0.01
23) Nitrobenzene-d5	7.434	82	118416	13.532	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	46731	14.437	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	238046	14.189	ng	0.00
79) Terphenyl-d14	12.980	244	220883	9.722	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.422	178	351912	16.408	ng	98
72) Anthracene	11.474	178	115761	5.380	ng	98
75) Fluoranthene	12.616	202	1334890	58.674	ng	100
78) Pyrene	12.845	202	1195119	41.131	ng	99
81) Benzo(a)anthracene	14.027	228	771521	35.002	ng	99
83) Chrysene	14.063	228	704708	35.270	ng	98
87) Indeno(1,2,3-cd)pyrene	16.986	276	138560	8.793	ng	95
88) Benzo(b)fluoranthene	15.080	252	538717m	32.266	ng	
89) Benzo(k)fluoranthene	15.092	252	248895m	17.420	ng	
90) Benzo(a)pyrene	15.445	252	306325	23.448	ng	97
91) Dibenzo(a,h)anthracene	17.004	278	43570	3.351	ng	# 91
92) Benzo(g,h,i)perylene	17.439	276	118200	9.199	ng	98

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

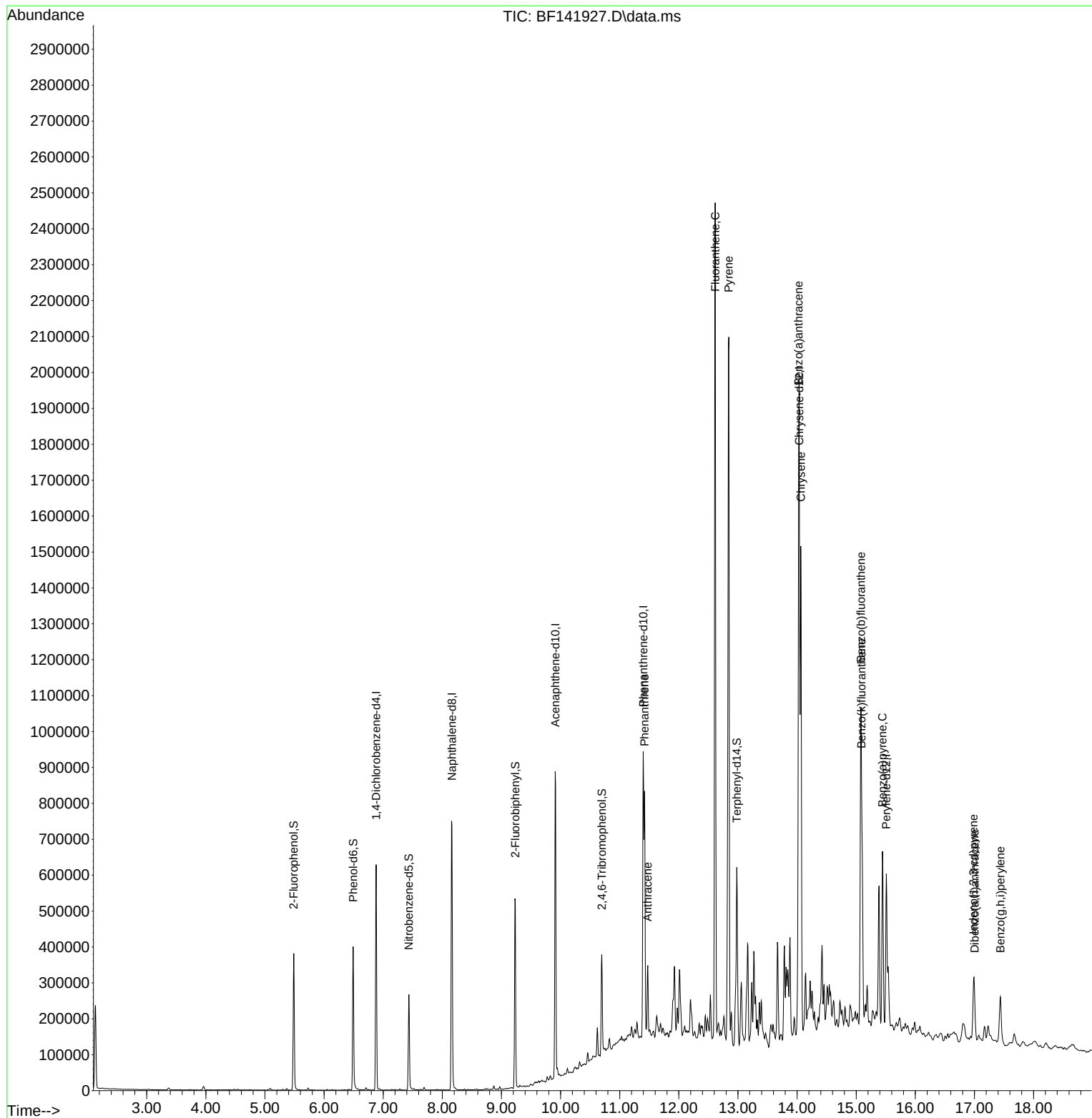
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Data File : BF141927.D
Acq On : 11 Mar 2025 20:42
Operator : RC/JU
Sample : Q1507-01DL 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

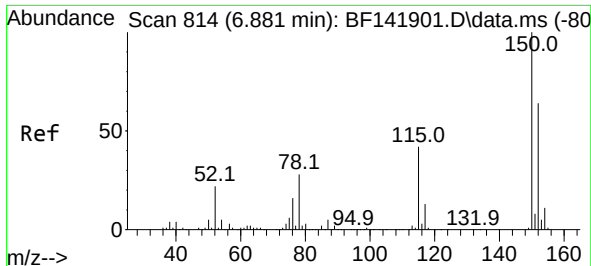
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Quant Time: Mar 12 01:17:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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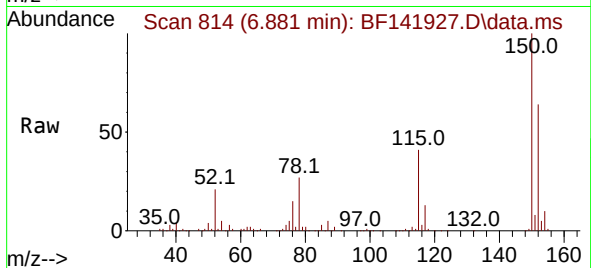
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 814
Delta R.T. -0.000 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

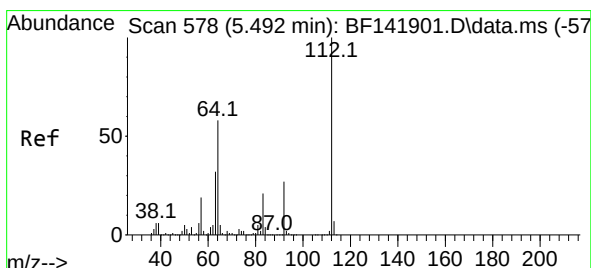
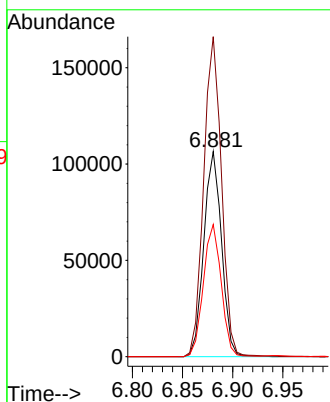
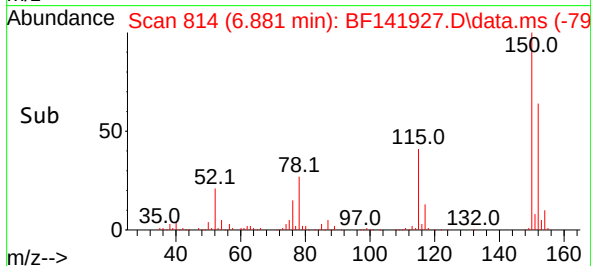
Instrument :
BNA_F
ClientSampleId :
50-MIDDLESEX-AVEDL



Tgt Ion:152 Resp: 131225
Ion Ratio Lower Upper
152 100
150 156.0 127.4 191.2
115 64.4 51.9 77.9

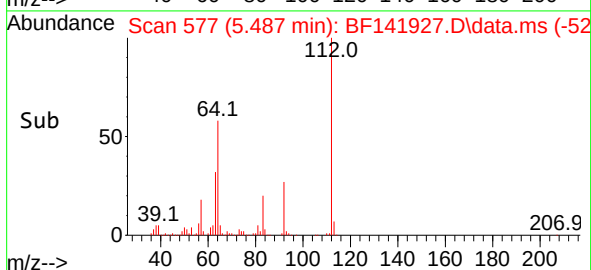
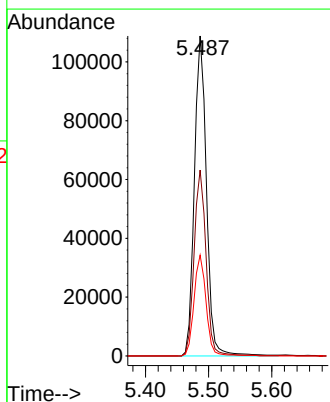
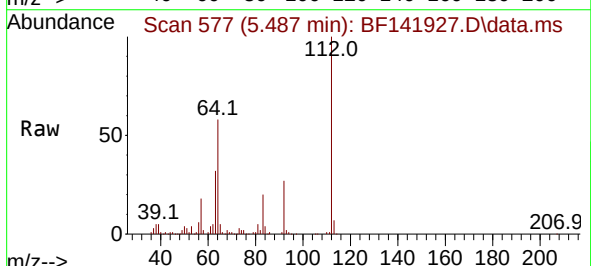
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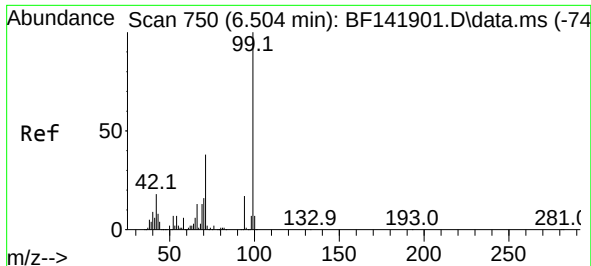
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#5
2-Fluorophenol
Concen: 18.429 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

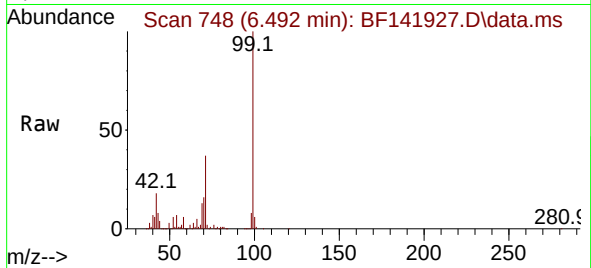
Tgt Ion:112 Resp: 144904
Ion Ratio Lower Upper
112 100
64 58.1 46.5 69.7
63 31.5 25.4 38.2





#7
Phenol-d6
Concen: 18.325 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

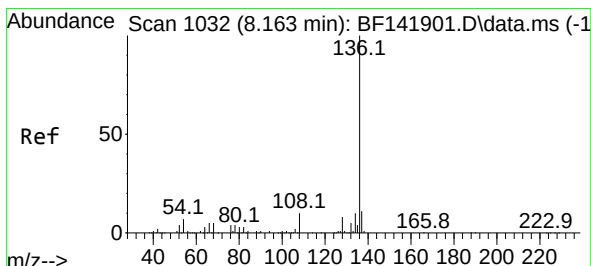
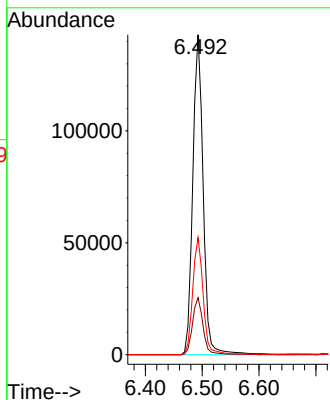
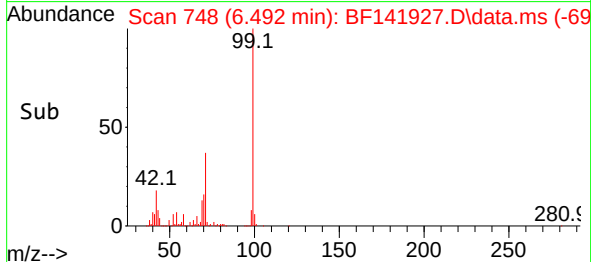
Instrument :
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Tgt Ion: 99 Resp: 183452
Ion Ratio Lower Upper
99 100
42 17.8 14.6 21.8
71 36.6 30.8 46.2

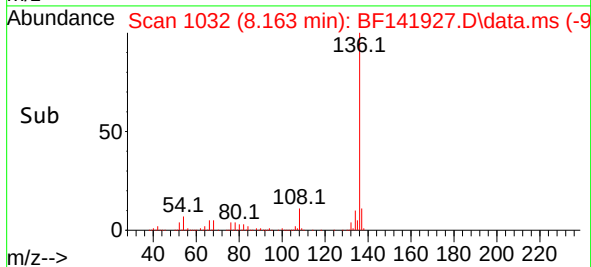
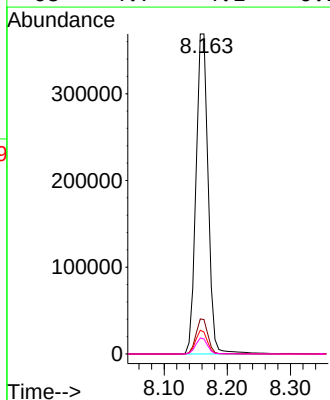
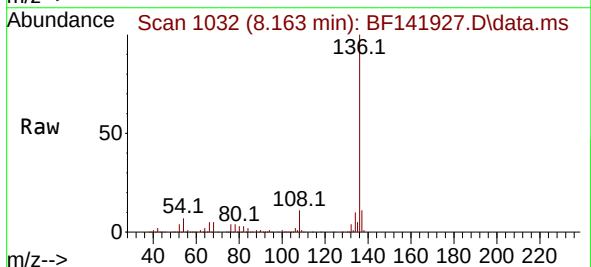
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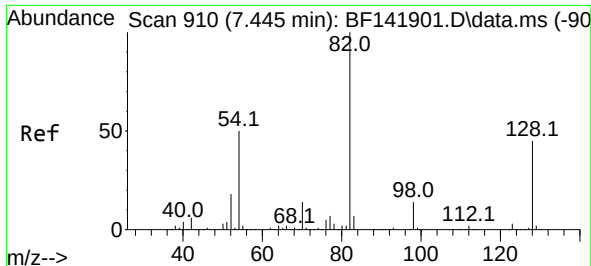
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.000 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

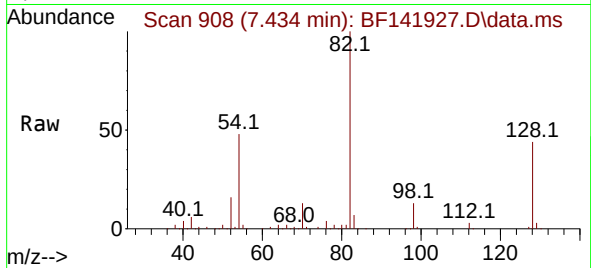
Tgt Ion:136 Resp: 492460
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 6.9 5.8 8.8
68 4.7 4.1 6.1





#23
Nitrobenzene-d5
Concen: 13.532 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

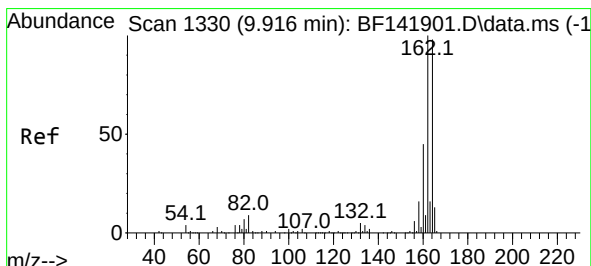
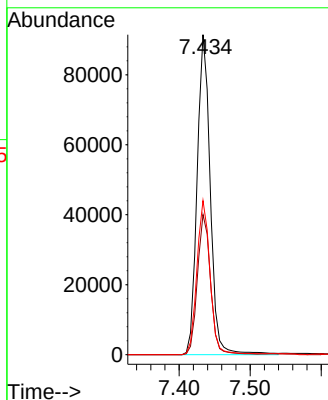
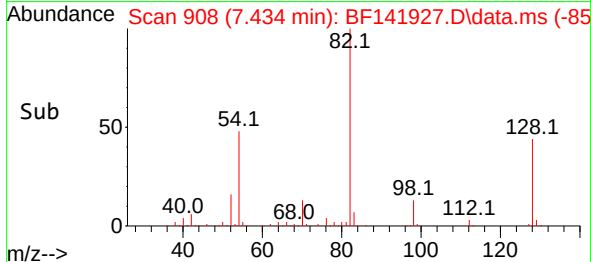
Instrument :
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Tgt Ion: 82 Resp: 118410
Ion Ratio Lower Upper
82 100
128 43.8 36.0 54.0
54 48.2 39.6 59.4

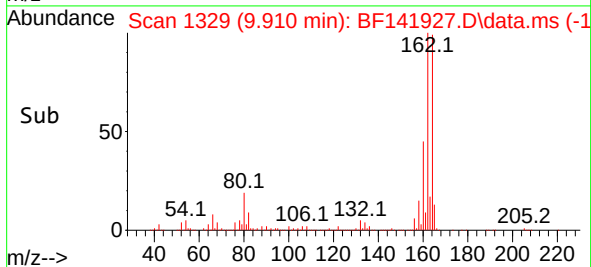
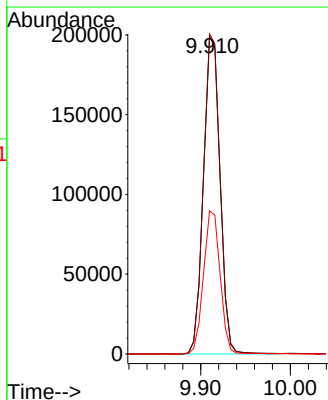
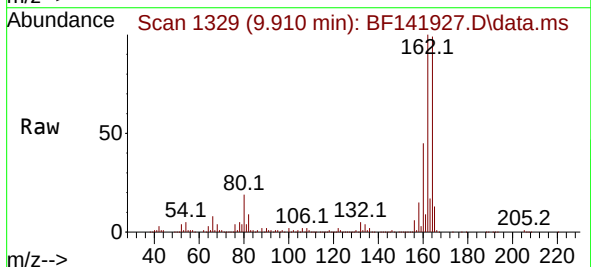
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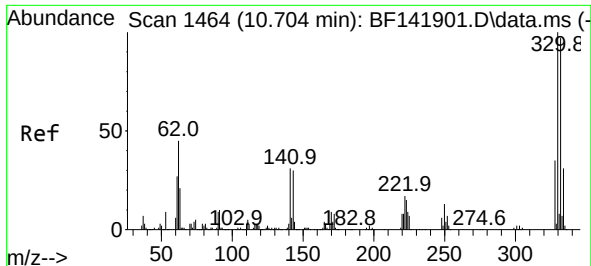
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

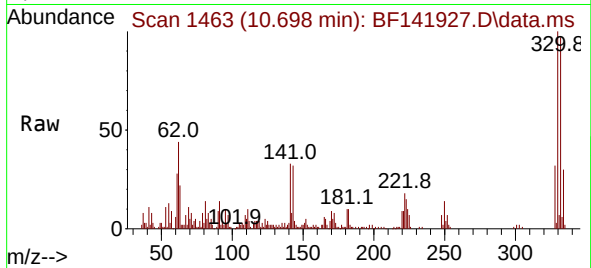
Tgt Ion:164 Resp: 255146
Ion Ratio Lower Upper
164 100
162 100.8 81.8 122.6
160 45.1 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 14.437 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

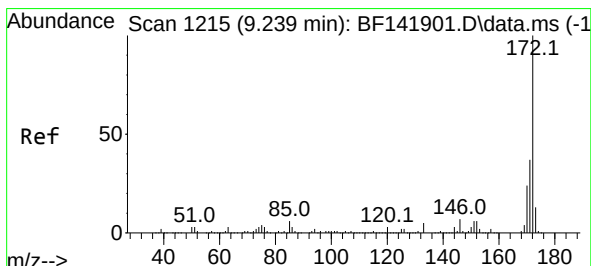
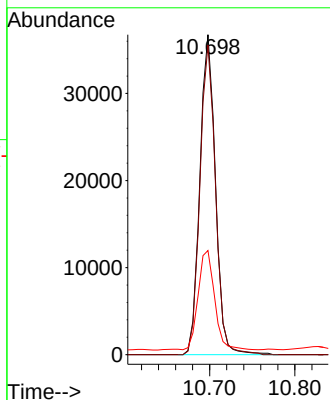
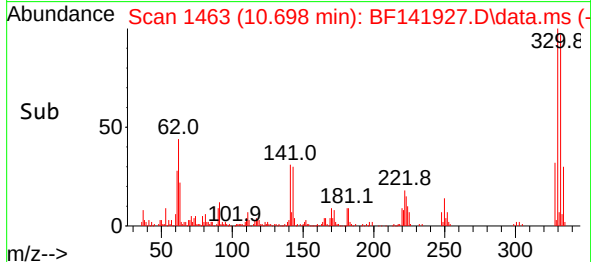
Instrument :
BNA_F
ClientSampleId :
50-MIDDLESEX-AVEDL



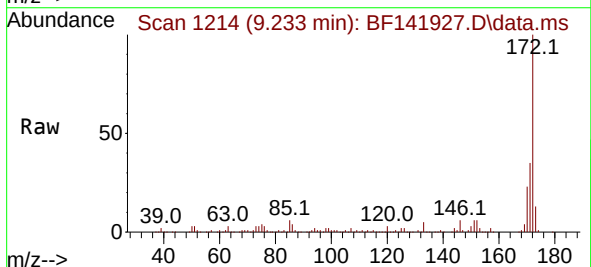
Tgt Ion:330 Resp: 4673
Ion Ratio Lower Upper
330 100
332 96.7 77.6 116.4
141 33.1 24.7 37.1

Manual Integrations
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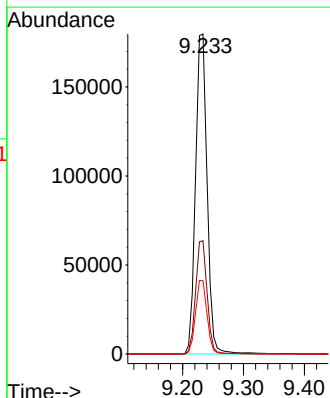
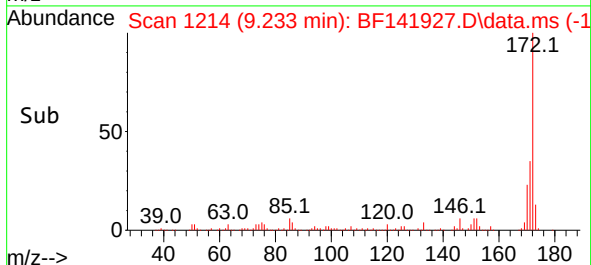
Reviewed By :Anahy Claudio 03/12/2025
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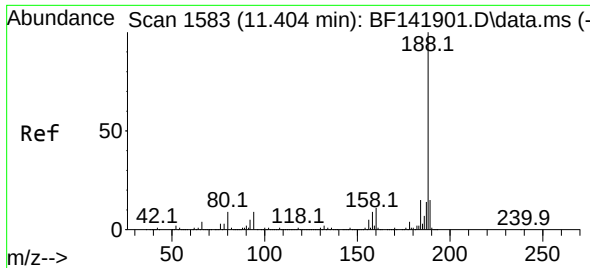


#45
2-Fluorobiphenyl
Concen: 14.189 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42



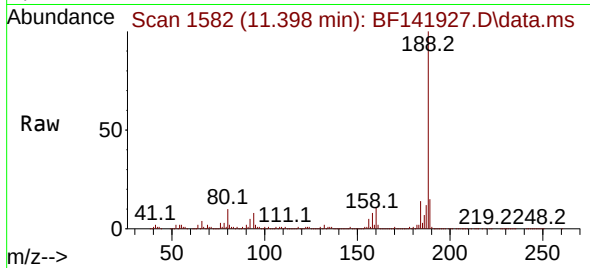
Tgt Ion:172 Resp: 238046
Ion Ratio Lower Upper
172 100
171 35.4 29.3 43.9
170 22.9 19.4 29.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

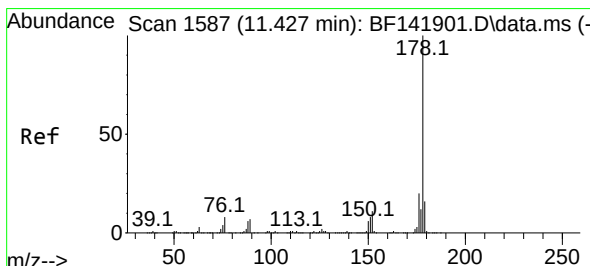
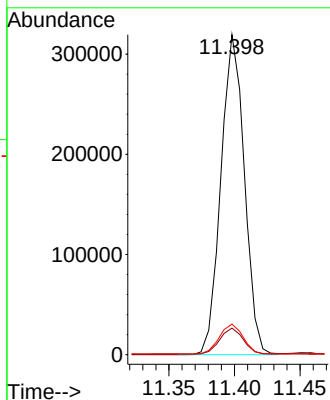
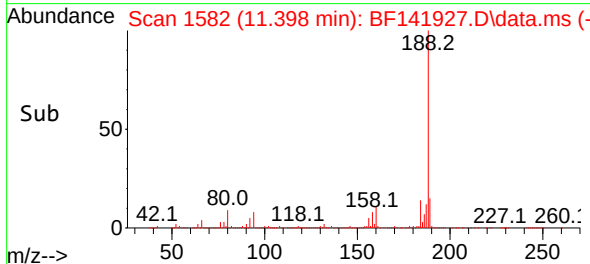
Instrument :
BNA_F
ClientSampleId :
50-MIDDLESEX-AVEDL



Tgt Ion:188 Resp: 397084
Ion Ratio Lower Upper
188 100
94 8.3 6.8 10.2
80 9.6 7.6 11.4

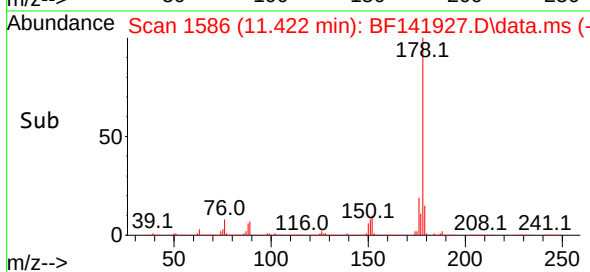
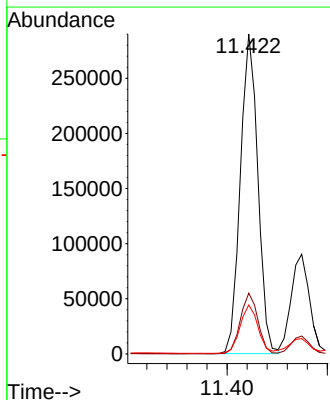
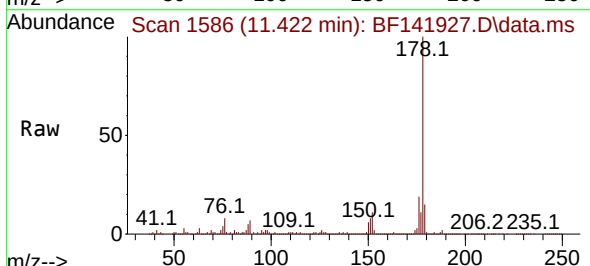
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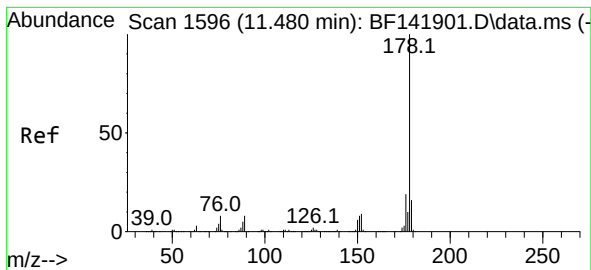
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#71
Phenanthrene
Concen: 16.408 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

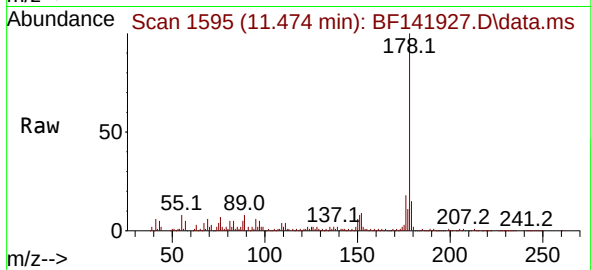
Tgt Ion:178 Resp: 351912
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.8
179 15.3 12.6 19.0





#72
 Anthracene
 Concen: 5.380 ng
 RT: 11.474 min Scan# 11576
 Delta R.T. -0.006 min
 Lab File: BF141927.D
 Acq: 11 Mar 2025 20:42

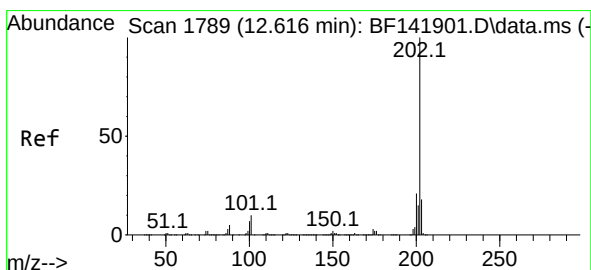
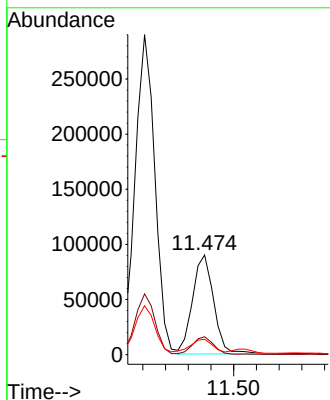
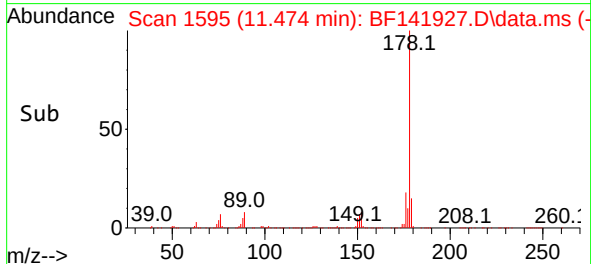
Instrument :
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 50-MIDDLESEX-AVEDL



Tgt Ion:178 Resp: 11576
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.1 22.7
 179 15.4 12.6 19.0

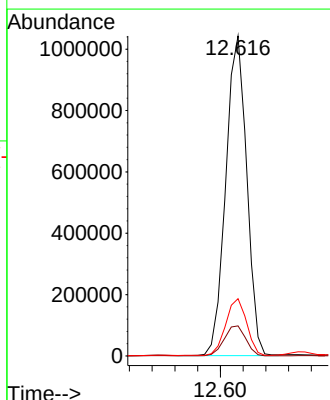
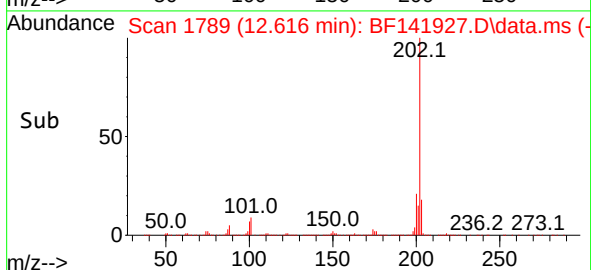
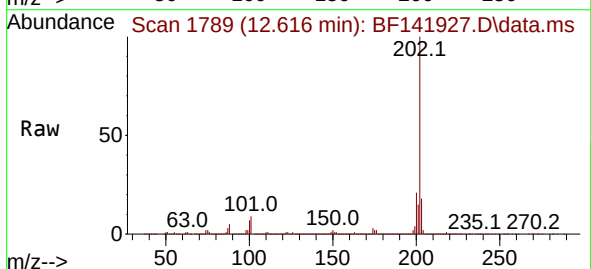
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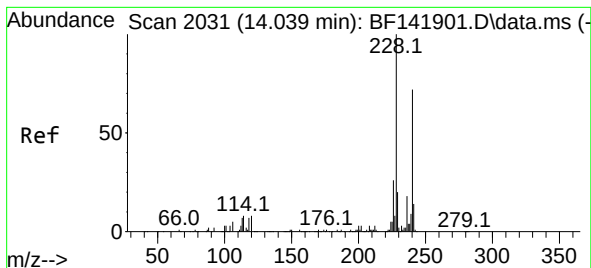
Reviewed By :Anahy Claudio 03/12/2025
 Supervised By :Jagrut Upadhyay 03/12/2025



#75
 Fluoranthene
 Concen: 58.674 ng
 RT: 12.616 min Scan# 1789
 Delta R.T. 0.000 min
 Lab File: BF141927.D
 Acq: 11 Mar 2025 20:42

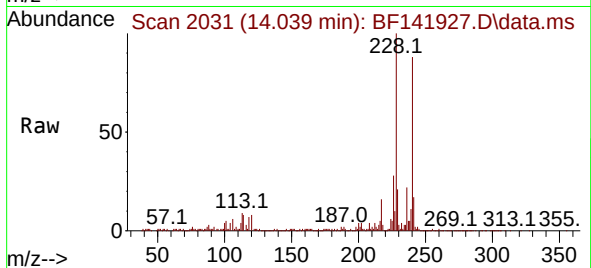
Tgt Ion:202 Resp: 1334890
 Ion Ratio Lower Upper
 202 100
 101 9.4 0.0 29.7
 203 17.9 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

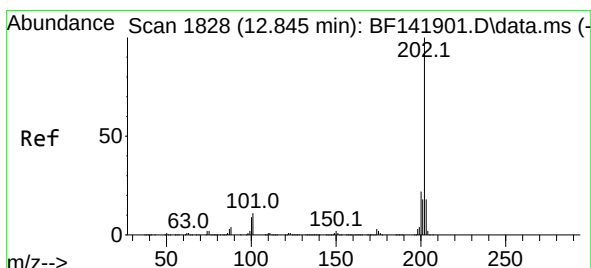
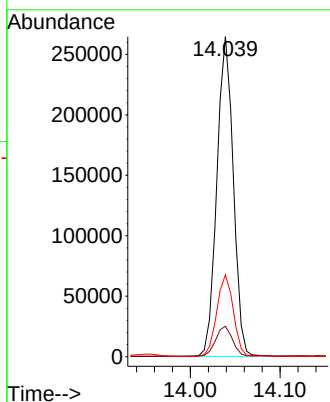
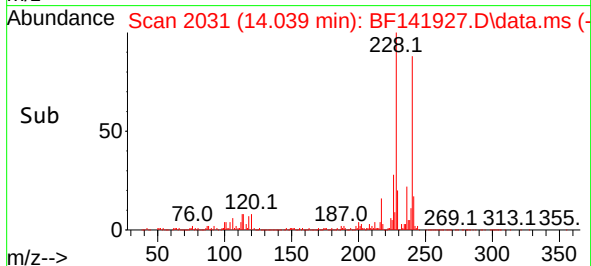
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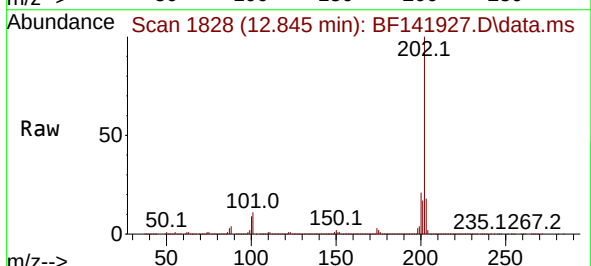
Tgt Ion:240 Resp: 33590
Ion Ratio Lower Upper
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120 9.5 8.4 12.6
236 25.6 20.5 30.7

Manual Integrations
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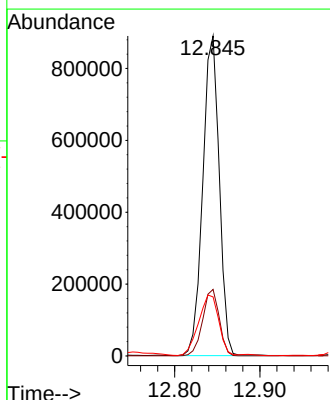
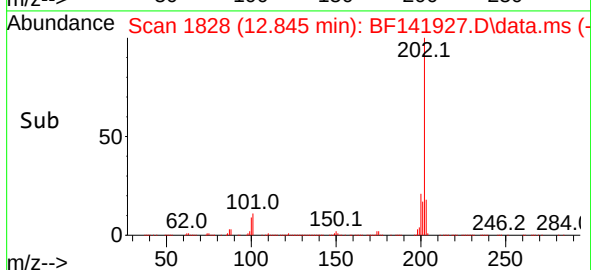
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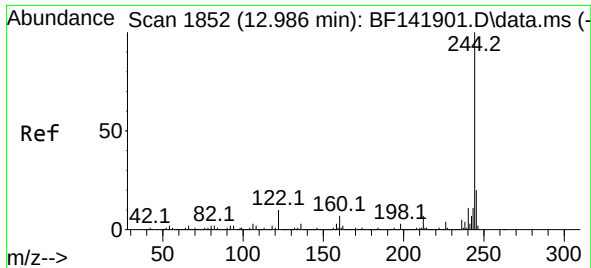


#78
Pyrene
Concen: 41.131 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42



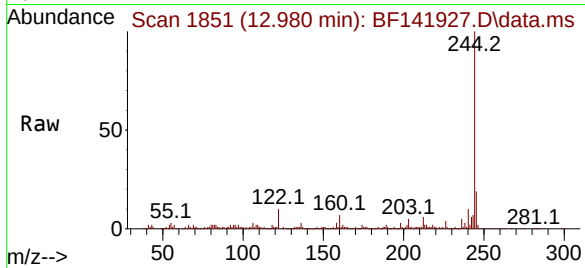
Tgt Ion:202 Resp: 1195119
Ion Ratio Lower Upper
202 100
200 20.8 17.3 25.9
203 18.5 14.4 21.6





#79
 Terphenyl-d14
 Concen: 9.722 ng
 RT: 12.980 min Scan# 1852
 Delta R.T. -0.006 min
 Lab File: BF141927.D
 Acq: 11 Mar 2025 20:42

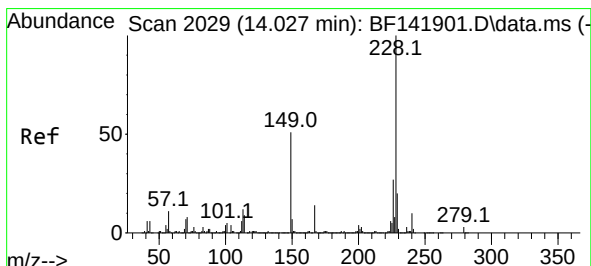
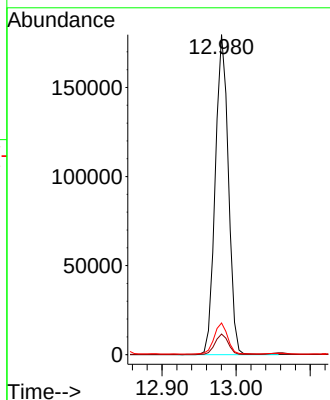
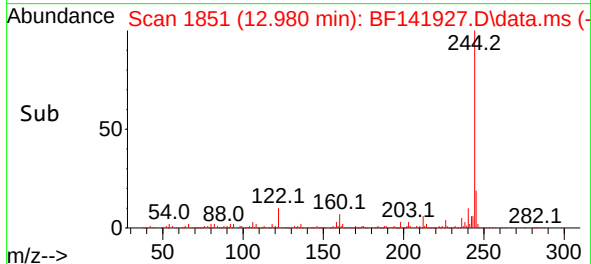
Instrument :
 BNA_F
 ClientSampleId :
 50-MIDDLESEX-AVEDL



Tgt Ion:244 Resp: 22088
 Ion Ratio Lower Upper
 244 100
 212 6.4 6.0 9.0
 122 9.9 7.7 11.5

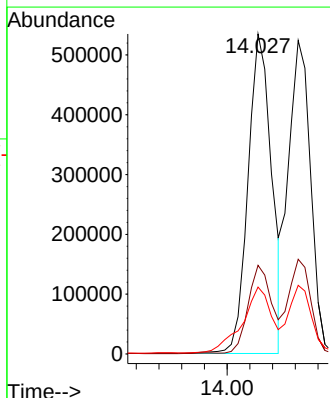
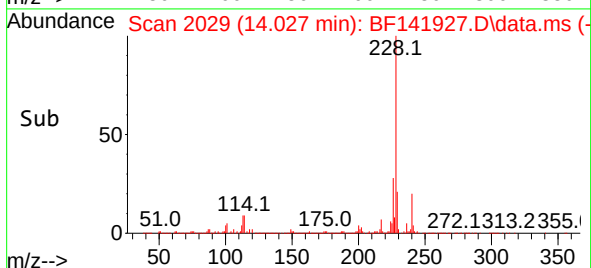
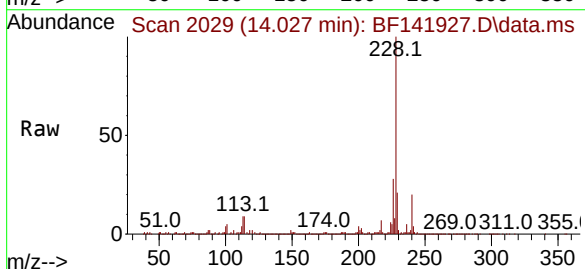
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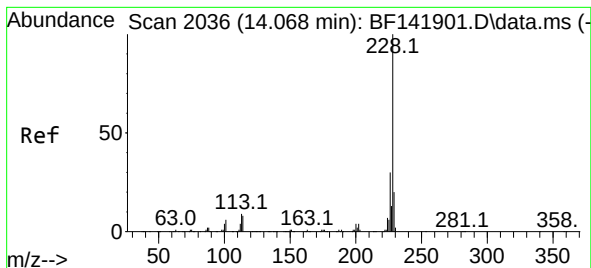
Reviewed By :Anahy Claudio 03/12/2025
 Supervised By :Jagrut Upadhyay 03/12/2025



#81
 Benzo(a)anthracene
 Concen: 35.002 ng
 RT: 14.027 min Scan# 2029
 Delta R.T. 0.000 min
 Lab File: BF141927.D
 Acq: 11 Mar 2025 20:42

Tgt Ion:228 Resp: 771521
 Ion Ratio Lower Upper
 228 100
 226 27.7 21.8 32.8
 229 20.9 16.0 24.0





#83

Chrysene

Concen: 35.270 ng

RT: 14.063 min Scan# 2036

Delta R.T. -0.006 min

Lab File: BF141927.D

Acq: 11 Mar 2025 20:42

Instrument :

BNA_F

ClientSampleId :

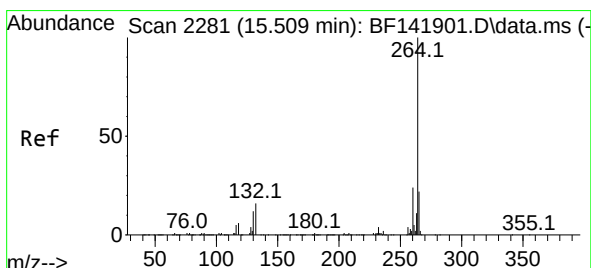
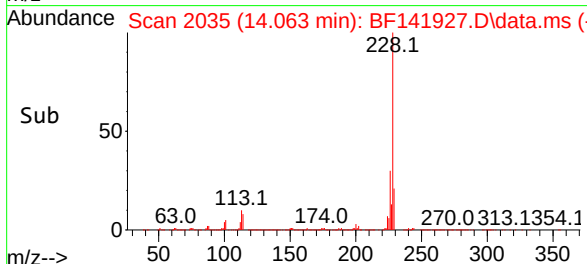
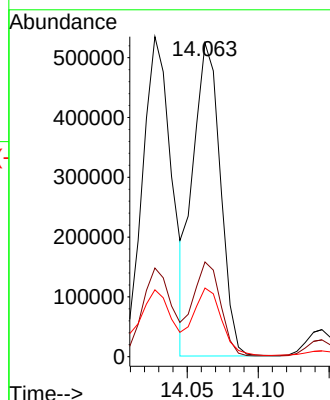
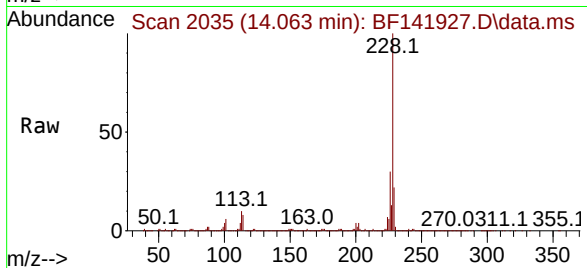
50-MIDDLESEX-AVEDL

Tgt Ion:	228	Resp:	704708
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.1	36.1
229	21.9	15.7	23.5

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Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#86

Perylene-d12

Concen: 20.000 ng

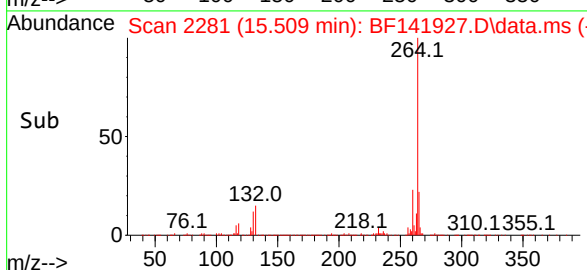
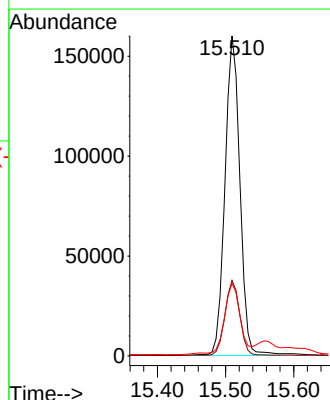
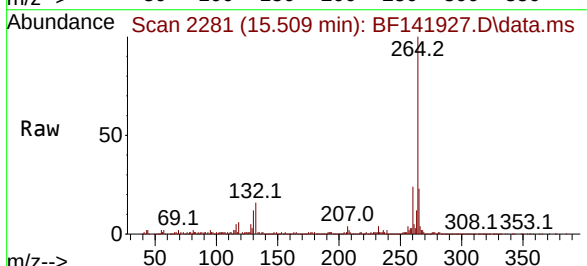
RT: 15.509 min Scan# 2281

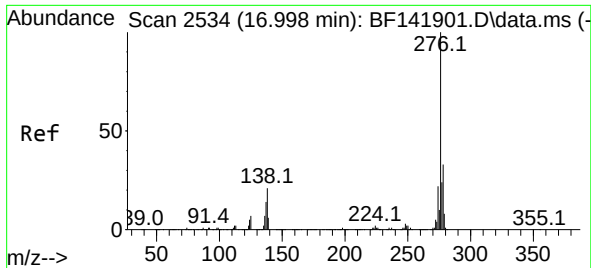
Delta R.T. 0.000 min

Lab File: BF141927.D

Acq: 11 Mar 2025 20:42

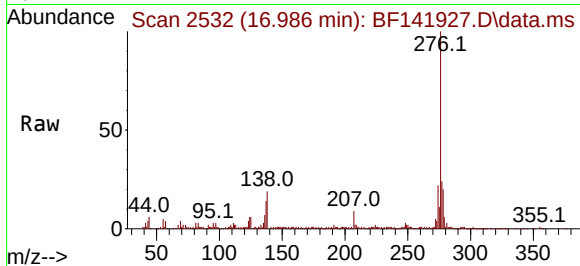
Tgt Ion:	264	Resp:	243609
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.1	28.7
265	22.7	17.5	26.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.793 ng
RT: 16.986 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

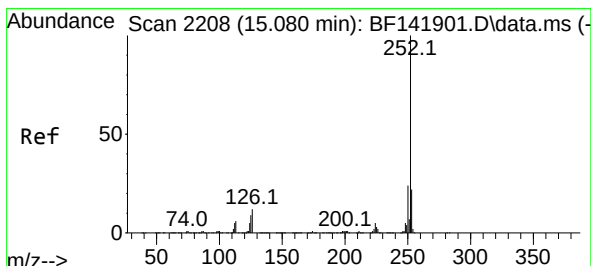
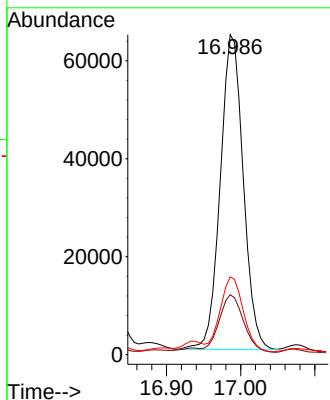
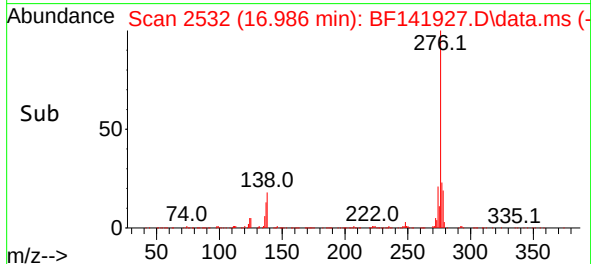
Instrument :
BNA_F
ClientSampleId :
50-MIDDLESEX-AVEDL



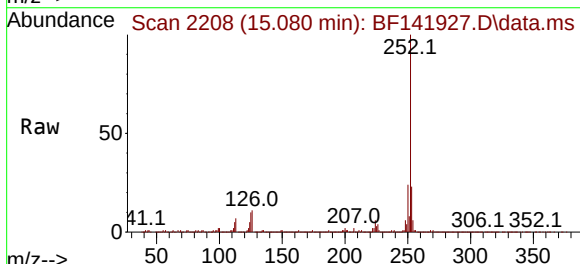
Tgt Ion:276 Resp: 138560
Ion Ratio Lower Upper
276 100
138 19.3 18.4 27.6
277 23.9 20.3 30.5

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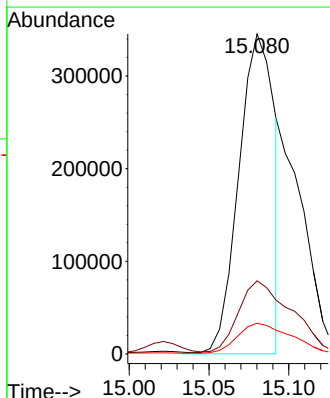
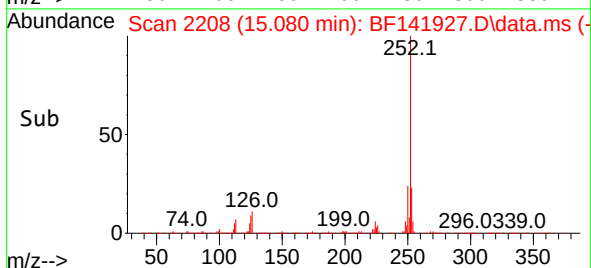
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

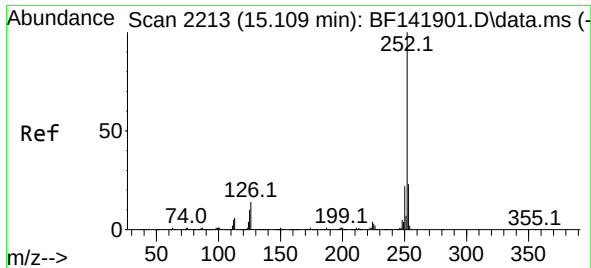


#88
Benzo(b)fluoranthene
Concen: 32.266 ng m
RT: 15.080 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42



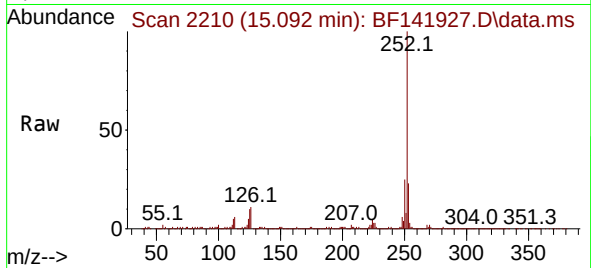
Tgt Ion:252 Resp: 538717
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 9.6 7.0 10.4





#89
Benzo(k)fluoranthene
Concen: 17.420 ng m
RT: 15.092 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

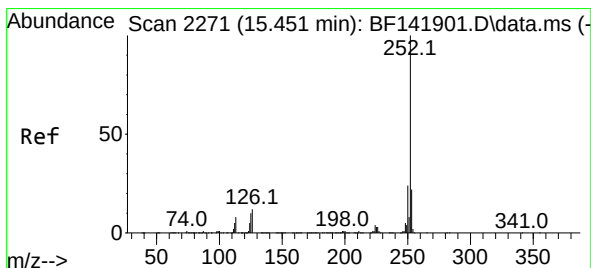
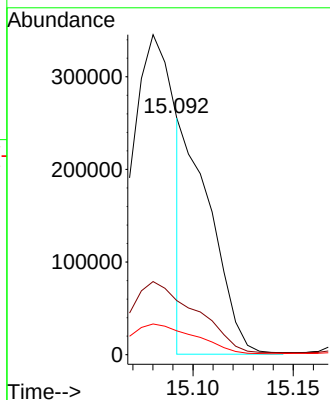
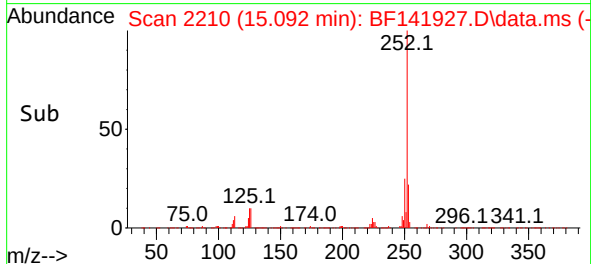
Instrument :
BNA_F
ClientSampleId :
50-MIDDLESEX-AVEDL



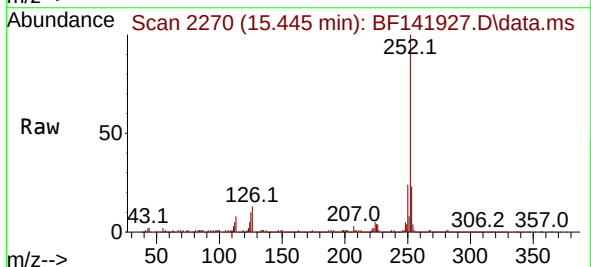
Tgt Ion:252 Resp: 24889
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 10.1 7.2 10.8

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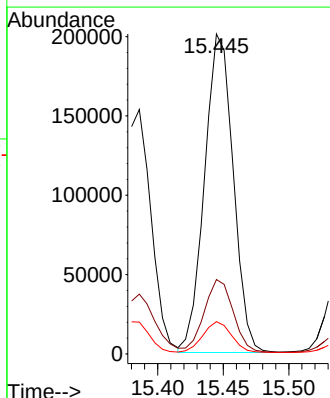
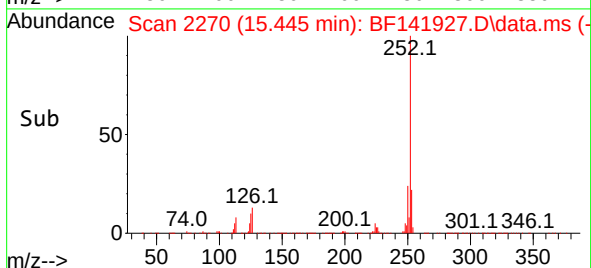
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

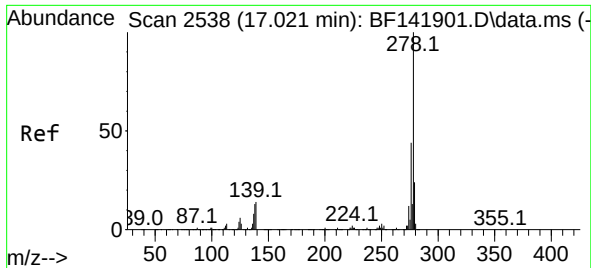


#90
Benzo(a)pyrene
Concen: 23.448 ng
RT: 15.445 min Scan# 2270
Delta R.T. -0.006 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42



Tgt Ion:252 Resp: 306325
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.0
125 10.1 7.8 11.8





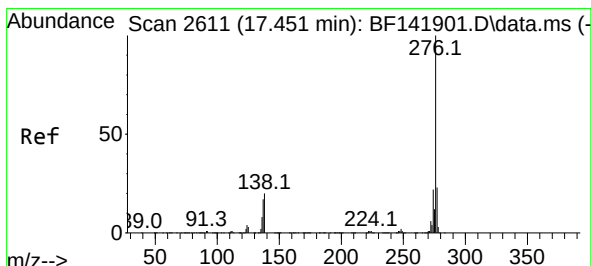
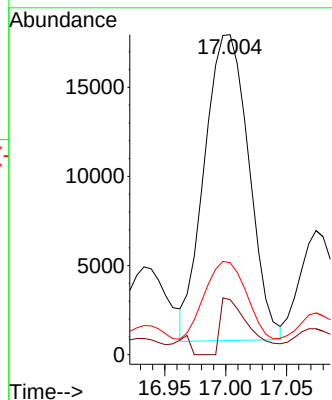
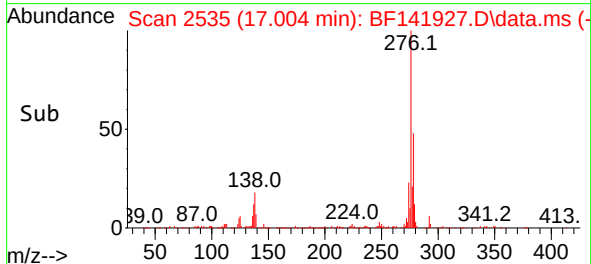
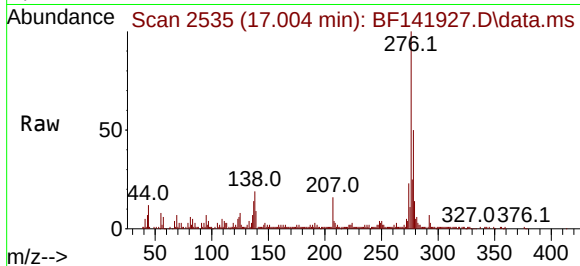
#91
Dibenzo(a,h)anthracene
Concen: 3.351 ng
RT: 17.004 min Scan# 2100
Delta R.T. -0.018 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

Instrument :
BNA_F
ClientSampleId :
50-MIDDLESEX-AVEDL

Tgt Ion:278 Resp: 43570
Ion Ratio Lower Upper
278 100
139 17.2 11.4 17.2
279 28.7 18.8 28.2

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Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#92
Benzo(g,h,i)perylene
Concen: 9.199 ng
RT: 17.439 min Scan# 2609
Delta R.T. -0.012 min
Lab File: BF141927.D
Acq: 11 Mar 2025 20:42

Tgt Ion:276 Resp: 118200
Ion Ratio Lower Upper
276 100
277 24.1 18.7 28.1
138 18.9 15.8 23.8

