

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111624\
 Data File : BF140435.D
 Acq On : 16 Nov 2024 17:34
 Operator : RC/JU
 Sample : P4768-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-3-2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/19/2024
 Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 00:08:50 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	116979	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	433268	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	227549	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	371496	20.000	ng	0.00
76) Chrysene-d12	14.045	240	238440	20.000	ng	0.00
86) Perylene-d12	15.533	264	217138	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	444151	64.827	ng	0.00
7) Phenol-d6	6.510	99	581332	62.627	ng	0.00
23) Nitrobenzene-d5	7.434	82	367000	44.134	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	133486	58.992	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	691668	48.864	ng	0.00
79) Terphenyl-d14	12.980	244	569655	41.470	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.769	152	48494	2.542	ng	99
71) Phenanthrene	11.422	178	261222	14.969	ng	99
72) Anthracene	11.474	178	78808	4.608	ng	98
75) Fluoranthene	12.616	202	1131471	57.791	ng	99
78) Pyrene	12.845	202	1159716	56.862	ng	99
81) Benzo(a)anthracene	14.039	228	861244	54.958	ng	95
83) Chrysene	14.074	228	619055	43.296	ng	97
87) Indeno(1,2,3-cd)pyrene	17.027	276	218864	16.317	ng	95
88) Benzo(b)fluoranthene	15.104	252	717187m	50.491	ng	
89) Benzo(k)fluoranthene	15.115	252	287857m	24.807	ng	
90) Benzo(a)pyrene	15.474	252	508313	46.083	ng	99
91) Dibenzo(a,h)anthracene	17.039	278	72021m	6.496	ng	
92) Benzo(g,h,i)perylene	17.486	276	185495	16.365	ng	97

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

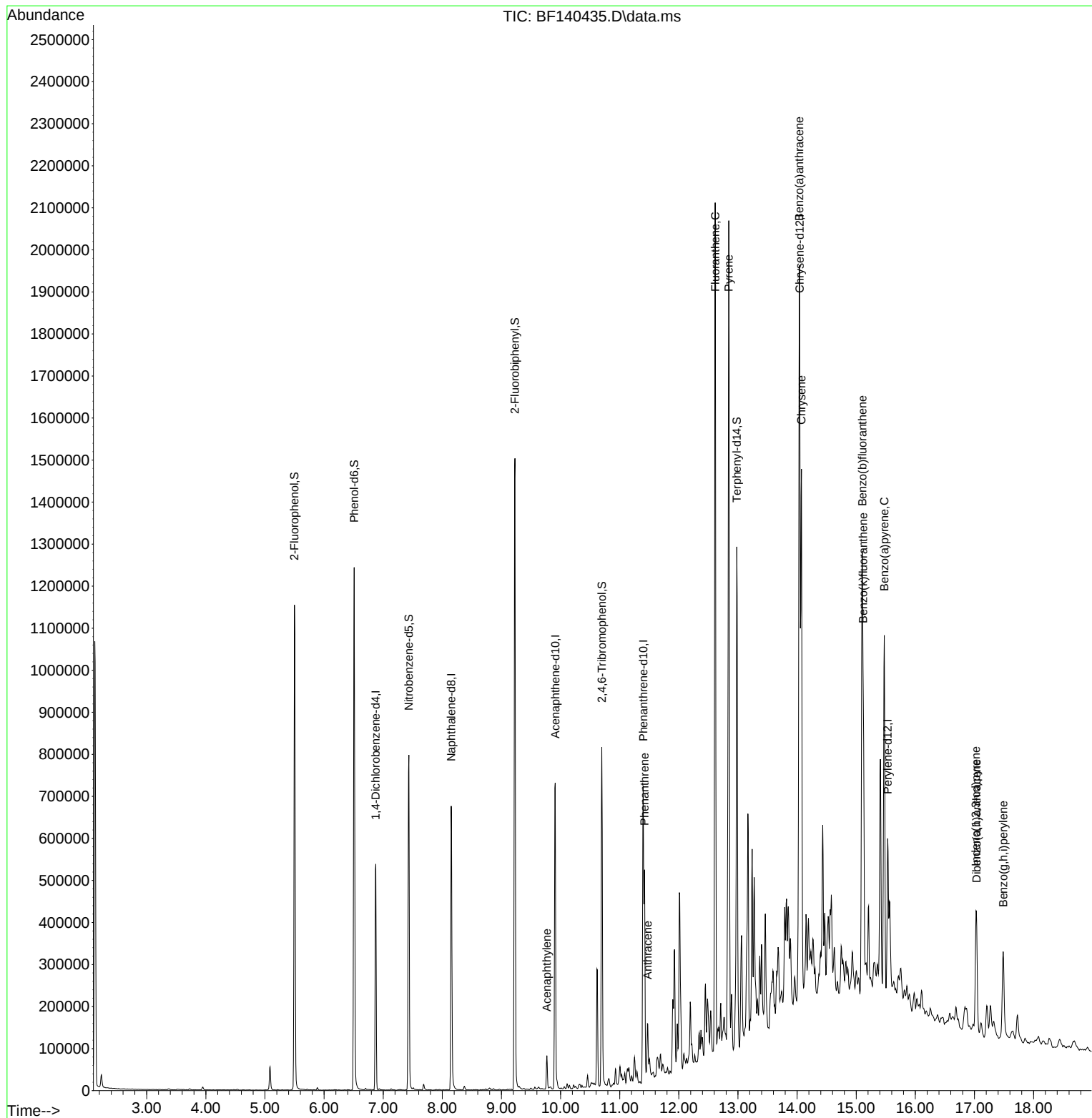
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111624\
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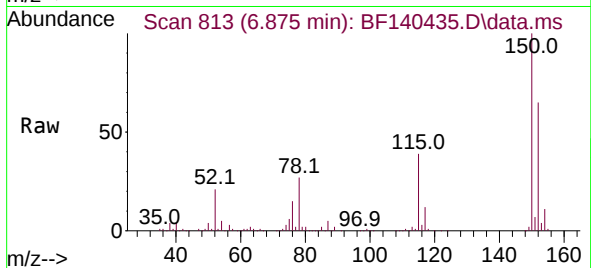
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

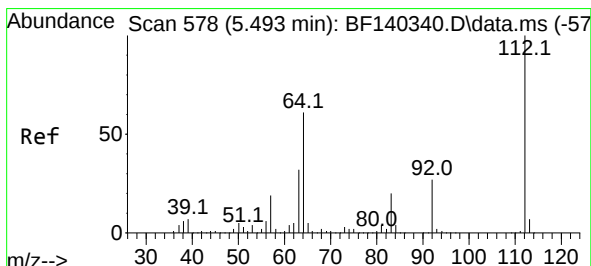
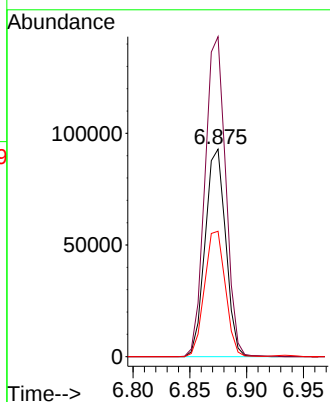
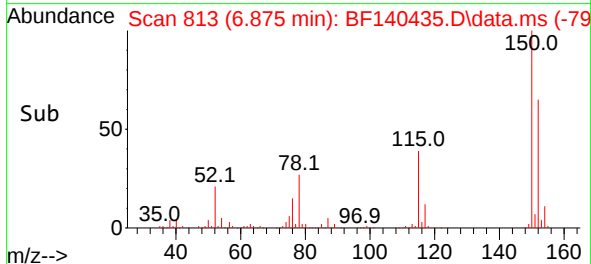
Instrument :
BNA_F
ClientSampleId :
B-3-2



Tgt Ion:152 Resp: 116979
Ion Ratio Lower Upper
152 100
150 154.3 127.4 191.0
115 60.5 47.4 71.2

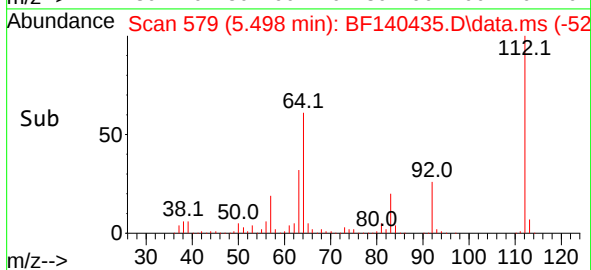
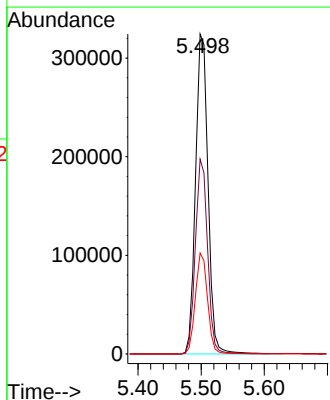
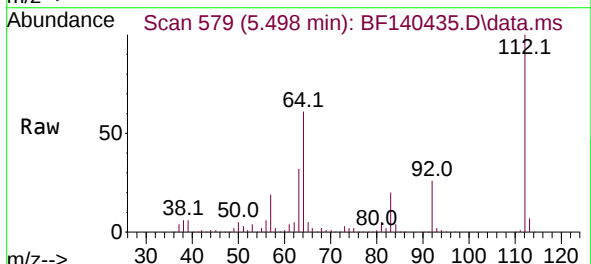
Manual Integrations
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#5
2-Fluorophenol
Concen: 64.827 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

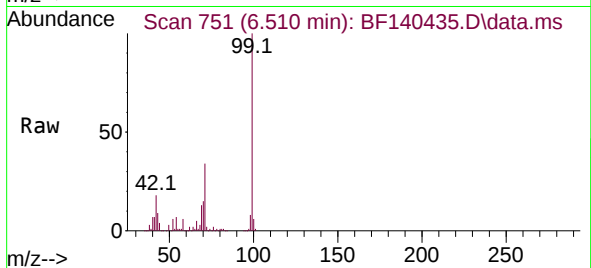
Tgt Ion:112 Resp: 444151
Ion Ratio Lower Upper
112 100
64 60.9 49.2 73.8
63 31.5 25.6 38.4





#7
Phenol-d6
Concen: 62.627 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

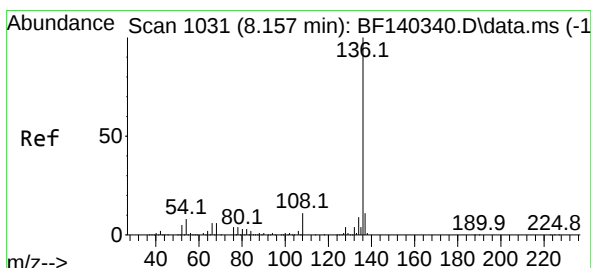
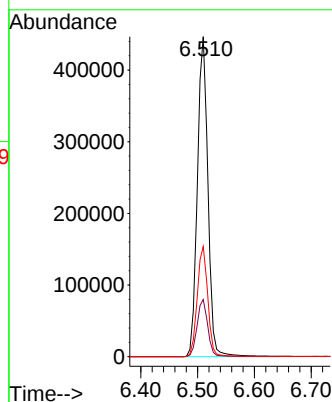
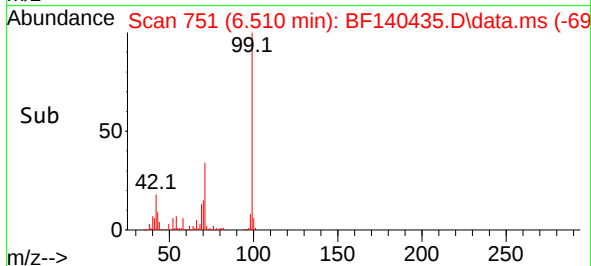
Instrument :
BNA_F
ClientSampleId :
B-3-2



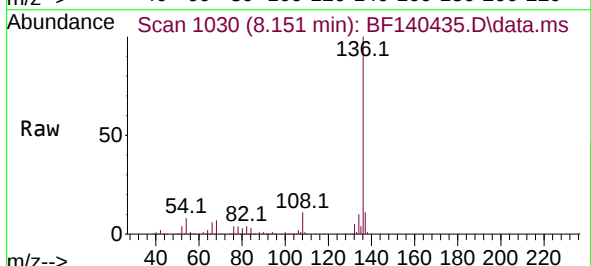
Tgt Ion: 99 Resp: 581332
Ion Ratio Lower Upper
99 100
42 17.8 15.1 22.7
71 34.4 27.9 41.9

Manual Integrations
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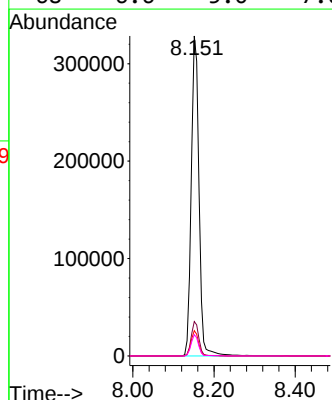
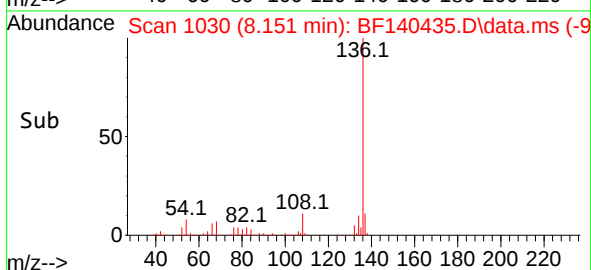
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34



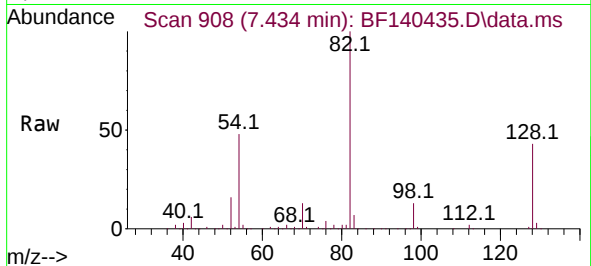
Tgt Ion:136 Resp: 433268
Ion Ratio Lower Upper
136 100
137 10.8 8.7 13.1
54 7.9 6.5 9.7
68 6.6 5.0 7.6





#23
Nitrobenzene-d5
Concen: 44.134 ng
RT: 7.434 min Scan# 909
Delta R.T. -0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

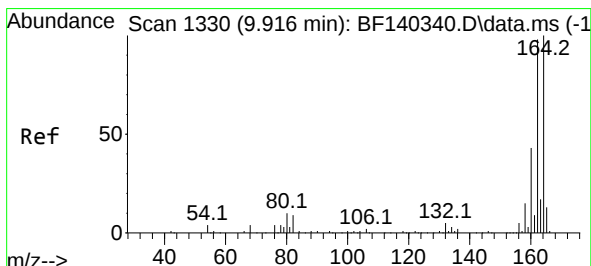
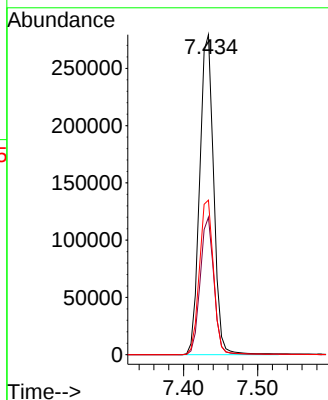
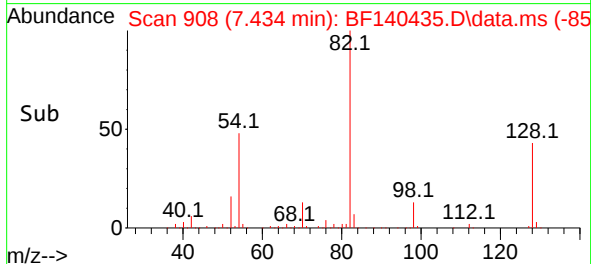
Instrument :
BNA_F
ClientSampleId :
B-3-2



Tgt Ion: 82 Resp: 367000
Ion Ratio Lower Upper
82 100
128 43.0 33.3 49.9
54 48.3 39.8 59.8

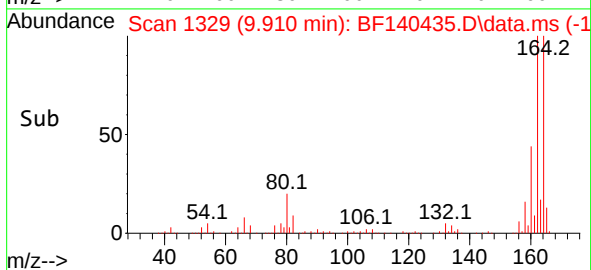
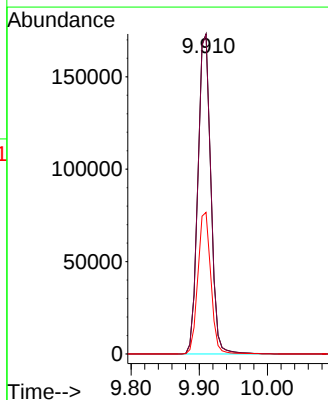
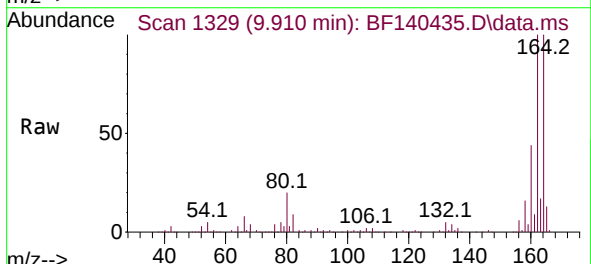
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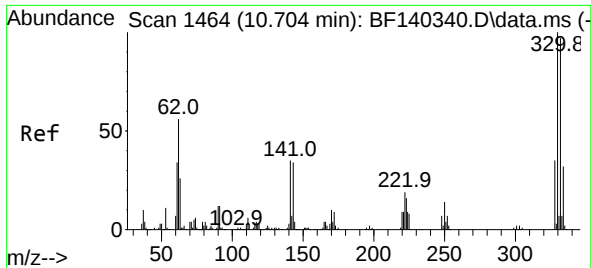
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

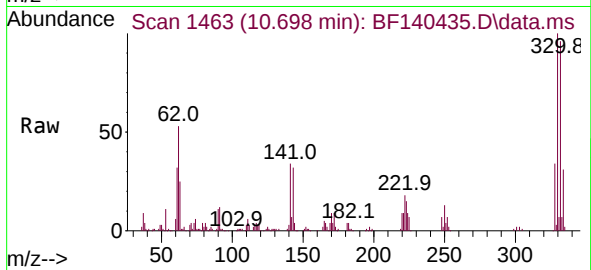
Tgt Ion:164 Resp: 227549
Ion Ratio Lower Upper
164 100
162 99.9 79.8 119.8
160 44.3 35.4 53.0





#42
2,4,6-Tribromophenol
Concen: 58.992 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

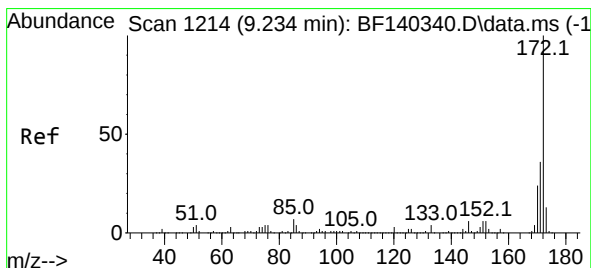
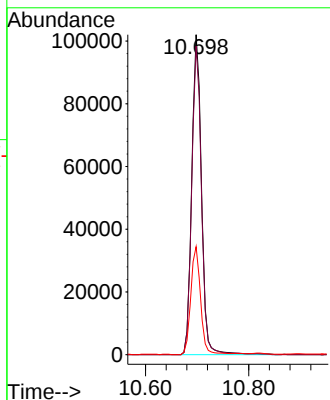
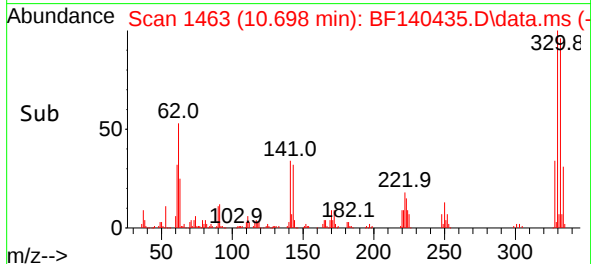
Instrument :
BNA_F
ClientSampleId :
B-3-2



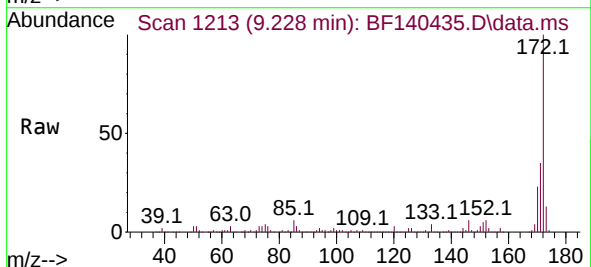
Tgt Ion: 330 Resp: 133480
Ion Ratio Lower Upper
330 100
332 96.0 75.9 113.9
141 34.0 26.9 40.3

Manual Integrations
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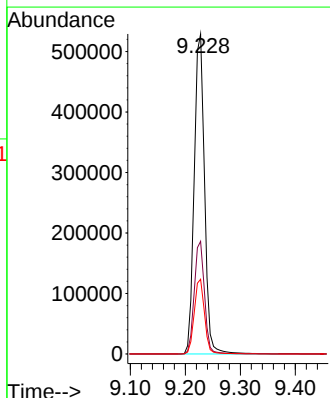
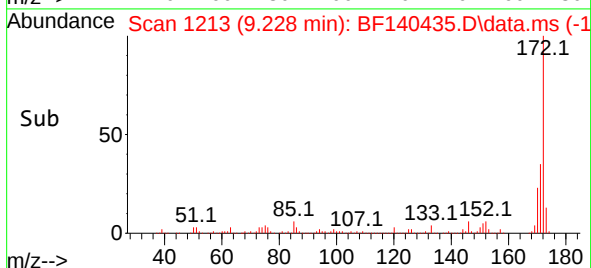
Reviewed By : Yogesh Patel 11/19/2024
Supervised By : mohammad ahmed 11/19/2024

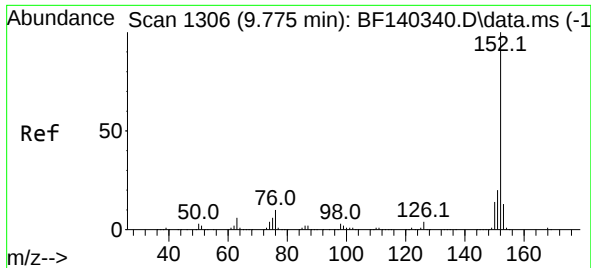


#45
2-Fluorobiphenyl
Concen: 48.864 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34



Tgt Ion: 172 Resp: 691668
Ion Ratio Lower Upper
172 100
171 35.2 28.5 42.7
170 23.4 19.1 28.7





#49

Acenaphthylene

Concen: 2.542 ng

RT: 9.769 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF140435.D

Acq: 16 Nov 2024 17:34

Instrument :

BNA_F

ClientSampleId :

B-3-2

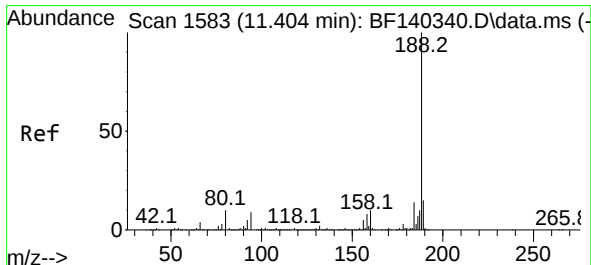
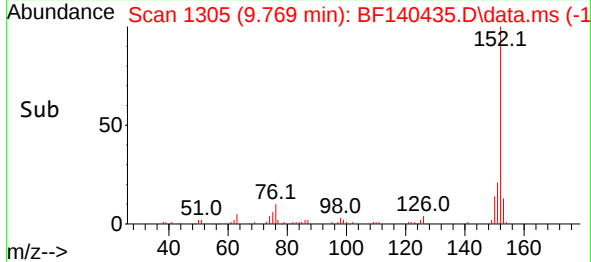
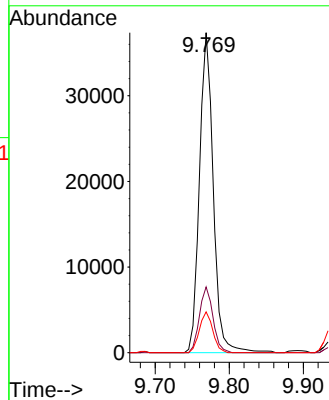
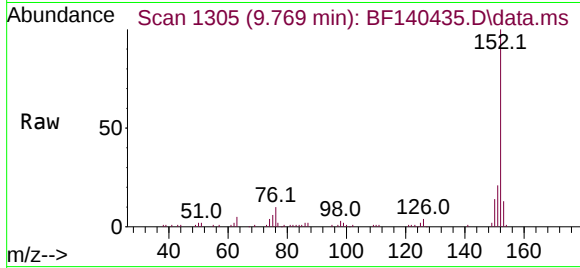
Tgt Ion:	152	Resp:	48494
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.1	24.1
153	12.7	10.7	16.1

Manual Integrations

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Supervised By :mohammad ahmed 11/19/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

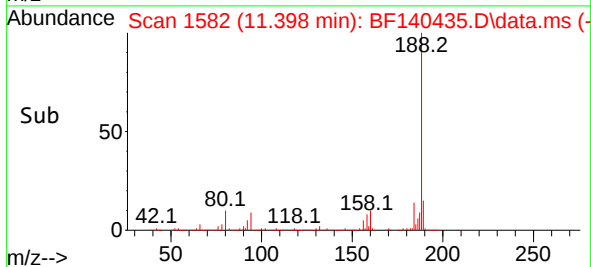
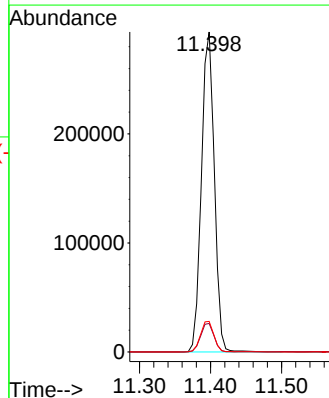
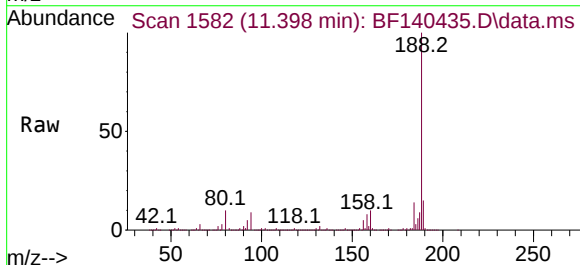
RT: 11.398 min Scan# 1582

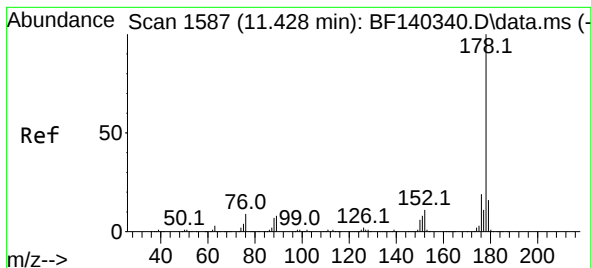
Delta R.T. -0.006 min

Lab File: BF140435.D

Acq: 16 Nov 2024 17:34

Tgt Ion:	188	Resp:	371496
Ion Ratio	Lower	Upper	
188	100		
94	8.9	7.6	11.4
80	9.5	8.0	12.0





#71

Phenanthrene

Concen: 14.969 ng

RT: 11.422 min Scan# 1587

Delta R.T. -0.006 min

Lab File: BF140435.D

Acq: 16 Nov 2024 17:34

Instrument :

BNA_F

ClientSampleId :

B-3-2

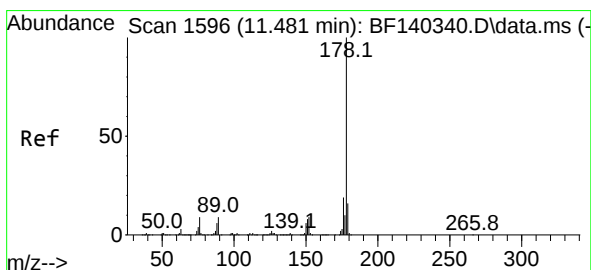
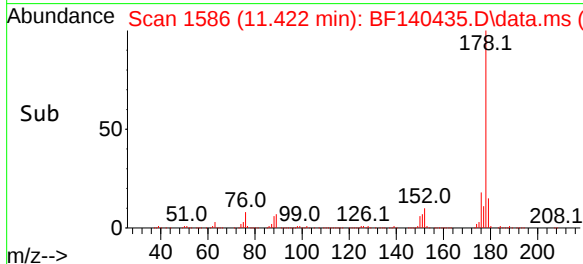
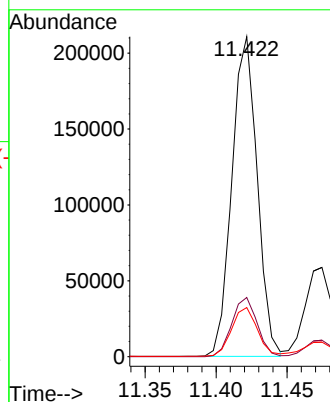
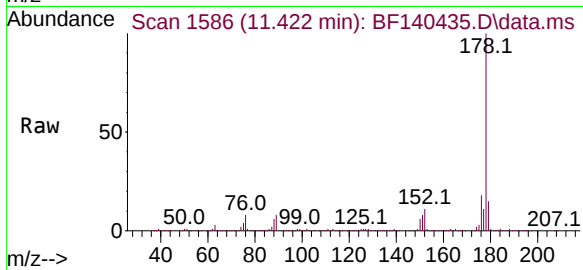
Tgt Ion:178 Resp: 261222
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.5 23.3
 179 15.4 12.4 18.6

Manual Integrations

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Supervised By :mohammad ahmed 11/19/2024



#72

Anthracene

Concen: 4.608 ng

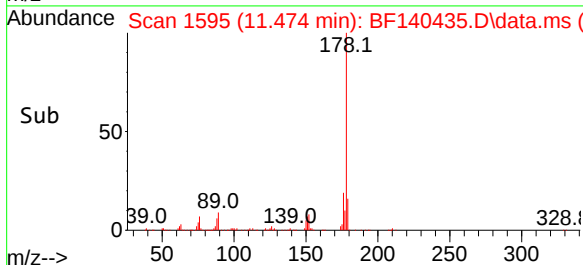
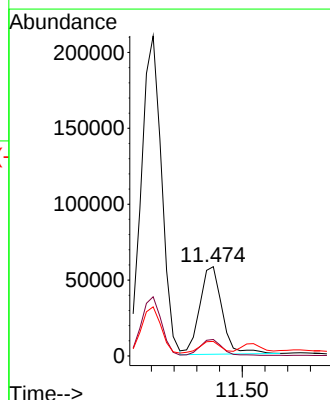
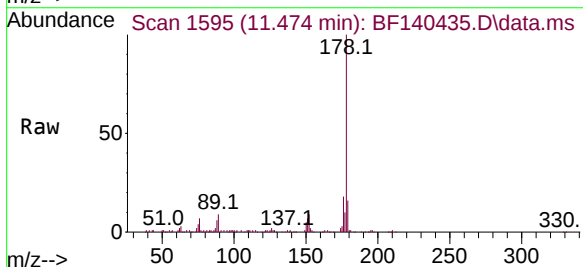
RT: 11.474 min Scan# 1595

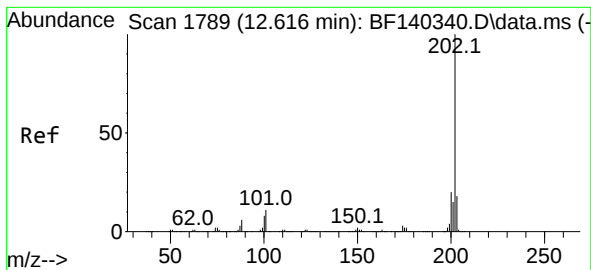
Delta R.T. -0.006 min

Lab File: BF140435.D

Acq: 16 Nov 2024 17:34

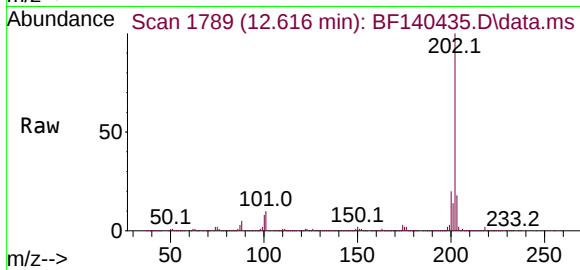
Tgt Ion:178 Resp: 78808
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.4 23.0
 179 16.4 12.6 18.8





#75
Fluoranthene
Concen: 57.791 ng
RT: 12.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

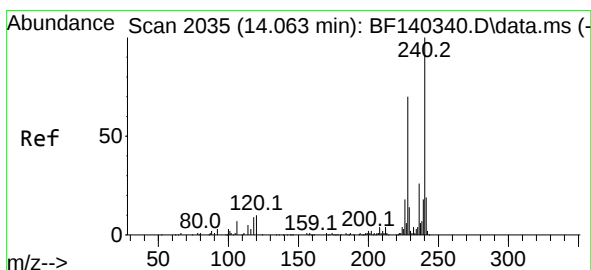
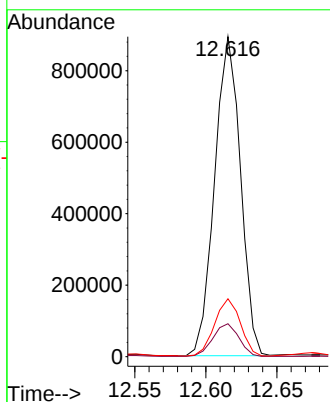
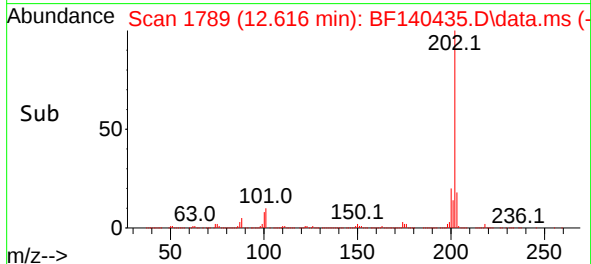
Instrument :
BNA_F
ClientSampleId :
B-3-2



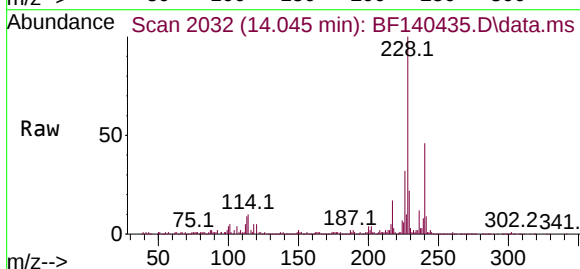
Tgt Ion:202 Resp: 113147
Ion Ratio Lower Upper
202 100
101 10.3 0.0 30.7
203 18.1 0.0 37.7

Manual Integrations
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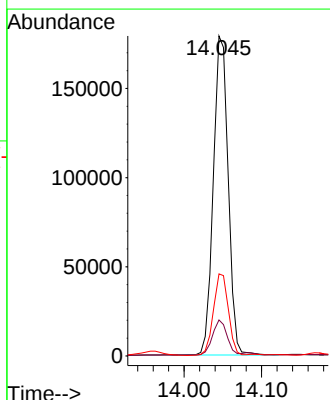
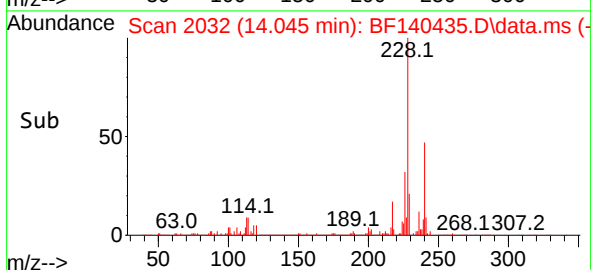
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

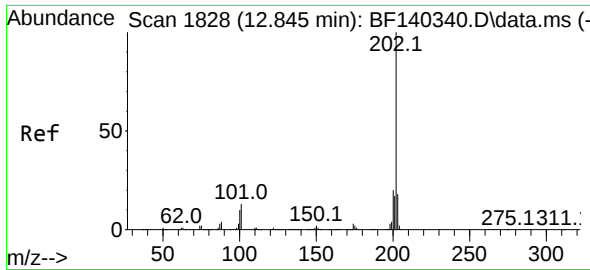


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34



Tgt Ion:240 Resp: 238440
Ion Ratio Lower Upper
240 100
120 11.2 8.8 13.2
236 25.6 20.9 31.3





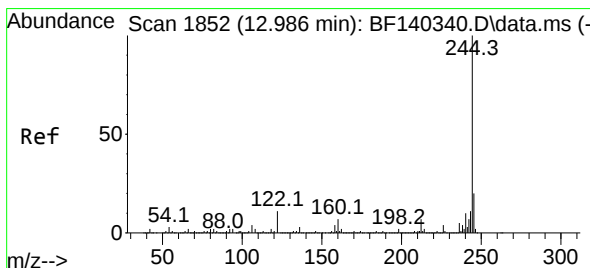
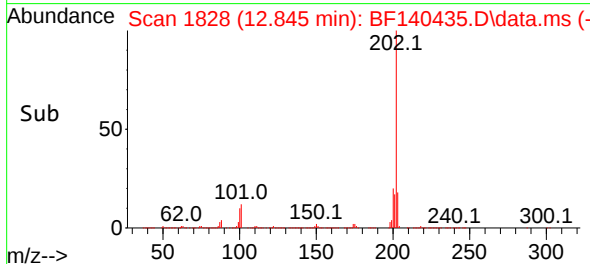
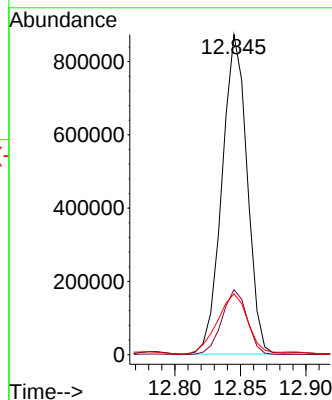
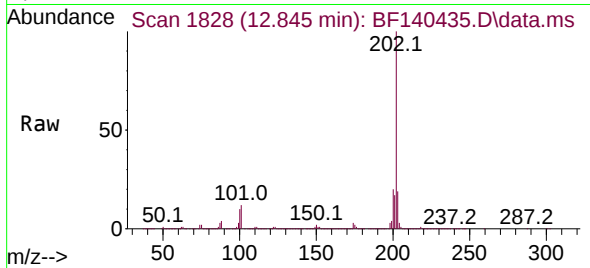
#78
Pyrene
Concen: 56.862 ng
RT: 12.845 min Scan# 1159710
Delta R.T. -0.000 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

Instrument :
BNA_F
ClientSampleId :
B-3-2

Tgt Ion:202 Resp: 1159710
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.2
203 19.0 14.2 21.4

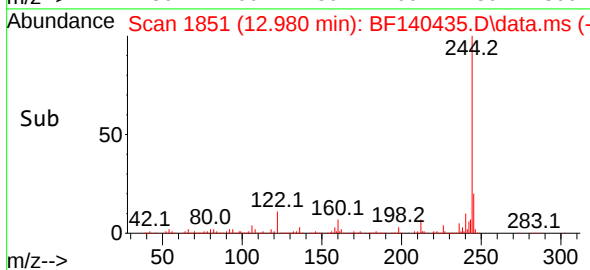
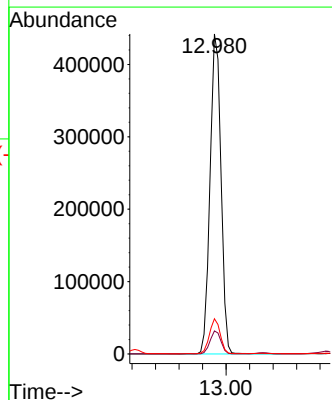
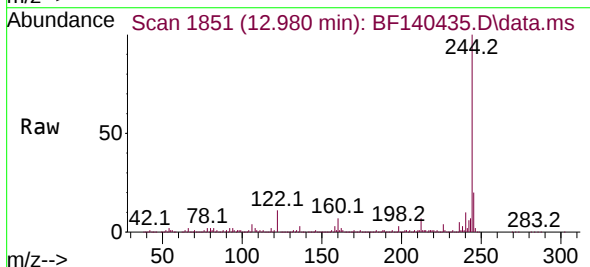
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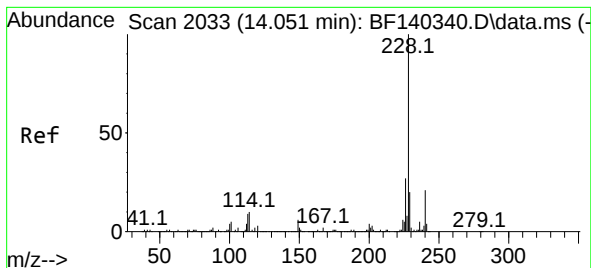
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024



#79
Terphenyl-d14
Concen: 41.470 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

Tgt Ion:244 Resp: 569655
Ion Ratio Lower Upper
244 100
212 7.2 5.8 8.8
122 11.0 8.8 13.2





#81

Benzo(a)anthracene

Concen: 54.958 ng

RT: 14.039 min Scan# 2031

Delta R.T. -0.000 min

Lab File: BF140435.D

Acq: 16 Nov 2024 17:34

Instrument :

BNA_F

ClientSampleId :

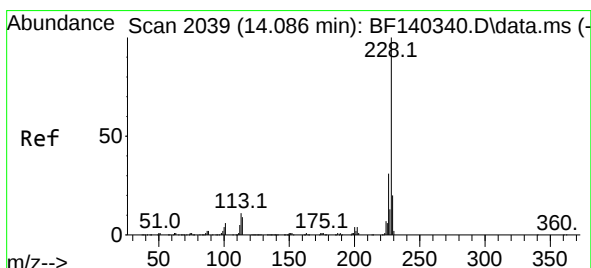
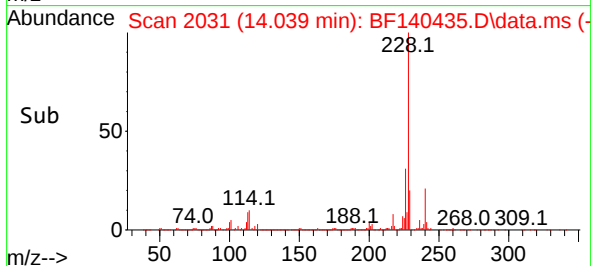
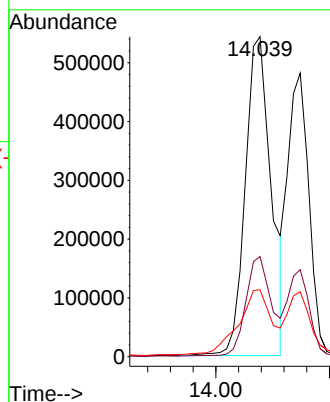
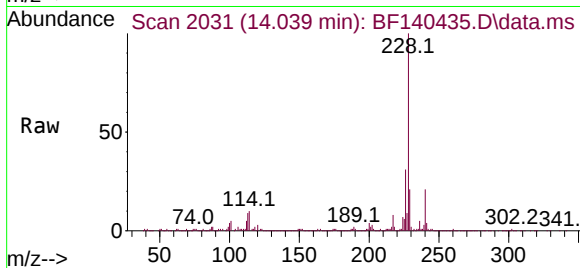
B-3-2

Tgt Ion:228 Resp: 861244
 Ion Ratio Lower Upper
 228 100
 226 31.3 22.2 33.4
 229 20.9 15.8 23.6

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Reviewed By :Yogesh Patel 11/19/2024
 Supervised By :mohammad ahmed 11/19/2024



#83

Chrysene

Concen: 43.296 ng

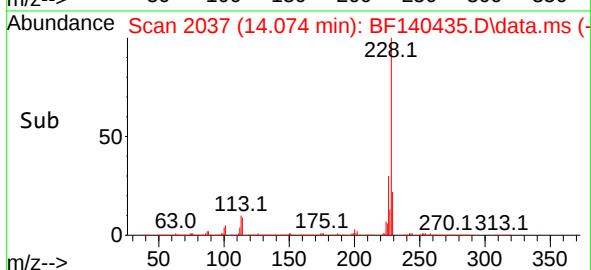
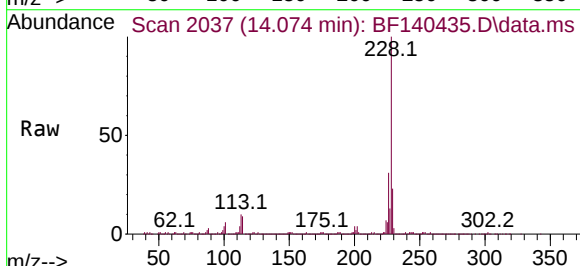
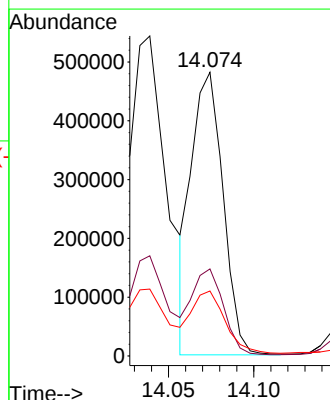
RT: 14.074 min Scan# 2037

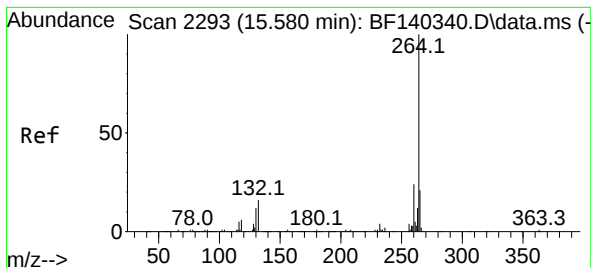
Delta R.T. -0.006 min

Lab File: BF140435.D

Acq: 16 Nov 2024 17:34

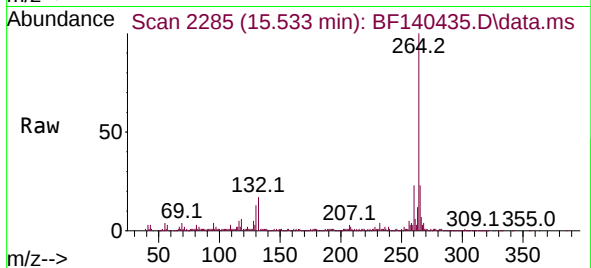
Tgt Ion:228 Resp: 619055
 Ion Ratio Lower Upper
 228 100
 226 30.7 24.5 36.7
 229 22.9 16.0 24.0





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.533 min Scan# 21
 Delta R.T. -0.024 min
 Lab File: BF140435.D
 Acq: 16 Nov 2024 17:34

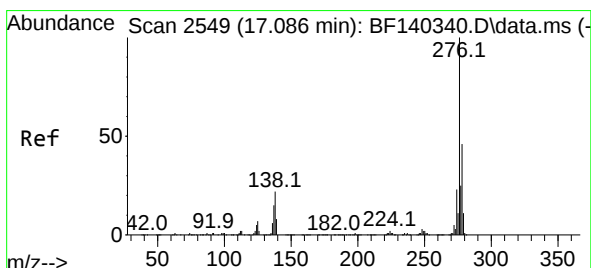
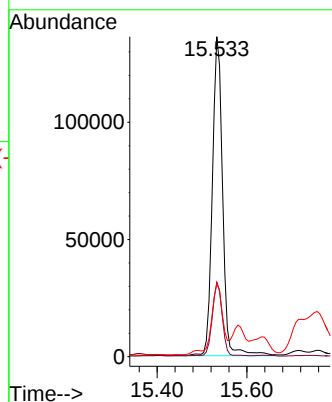
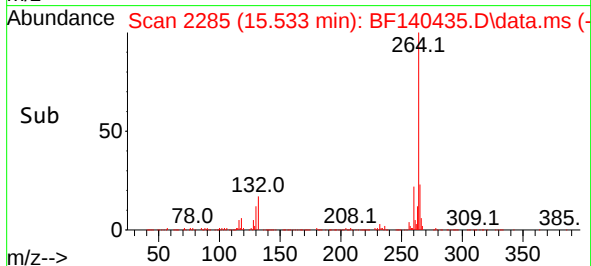
Instrument :
 BNA_F
 ClientSampleId :
 B-3-2



Tgt Ion:264 Resp: 217138
 Ion Ratio Lower Upper
 264 100
 260 23.2 19.2 28.8
 265 22.9 17.1 25.7

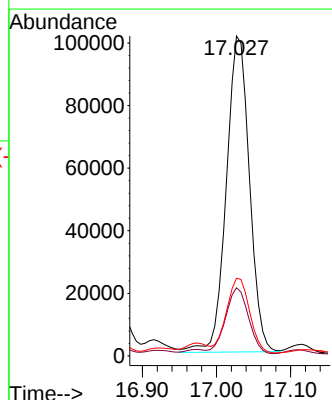
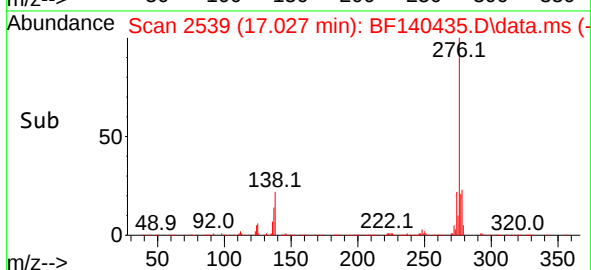
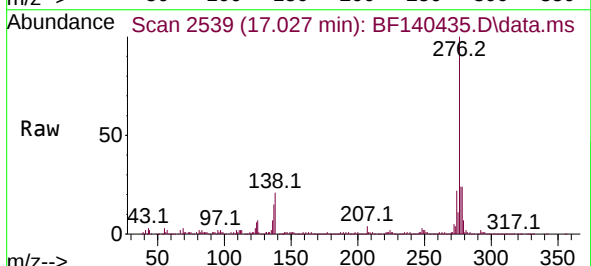
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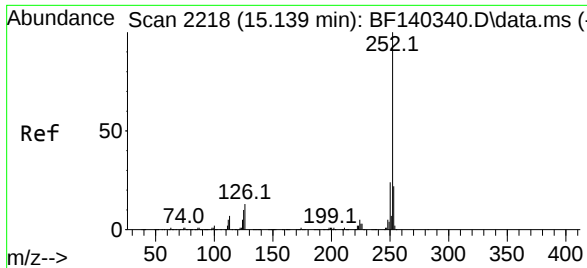
Reviewed By :Yogesh Patel 11/19/2024
 Supervised By :mohammad ahmed 11/19/2024



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 16.317 ng
 RT: 17.027 min Scan# 2539
 Delta R.T. -0.030 min
 Lab File: BF140435.D
 Acq: 16 Nov 2024 17:34

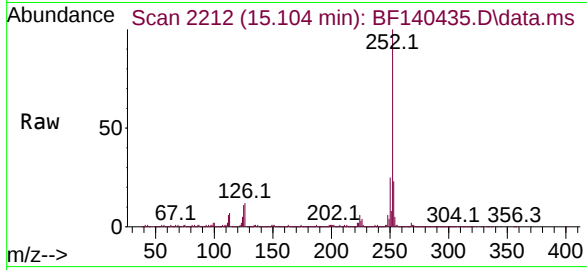
Tgt Ion:276 Resp: 218864
 Ion Ratio Lower Upper
 276 100
 138 20.5 18.8 28.2
 277 23.5 20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 50.491 ng m
RT: 15.104 min Scan# 2218
Delta R.T. -0.012 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

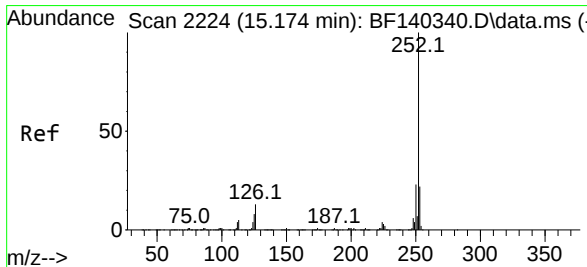
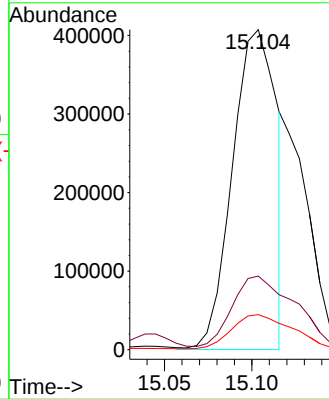
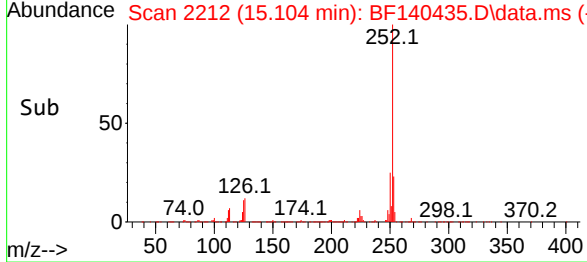
Instrument :
BNA_F
ClientSampleId :
B-3-2



Tgt Ion:252 Resp: 71718
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 11.0 8.0 12.0

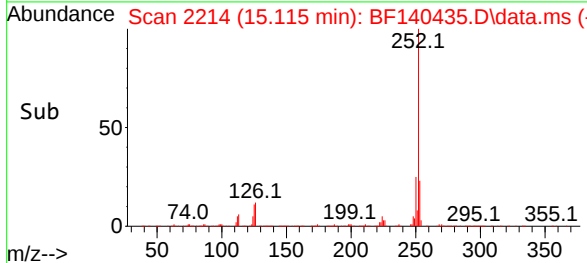
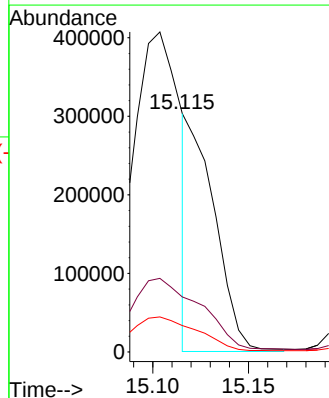
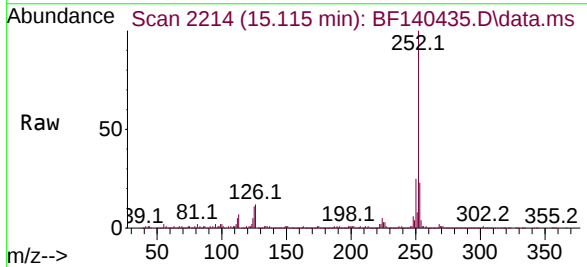
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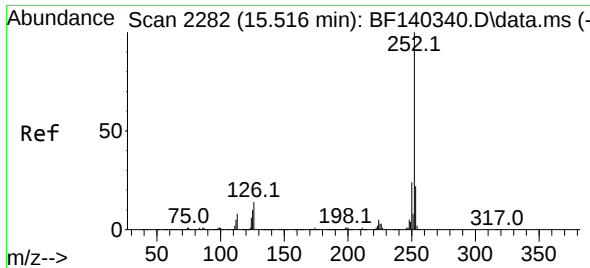
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024



#89
Benzo(k)fluoranthene
Concen: 24.807 ng m
RT: 15.115 min Scan# 2214
Delta R.T. -0.035 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

Tgt Ion:252 Resp: 287857
Ion Ratio Lower Upper
252 100
253 23.1 17.3 25.9
125 11.1 7.4 11.2





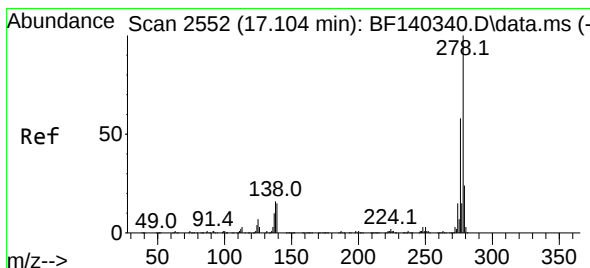
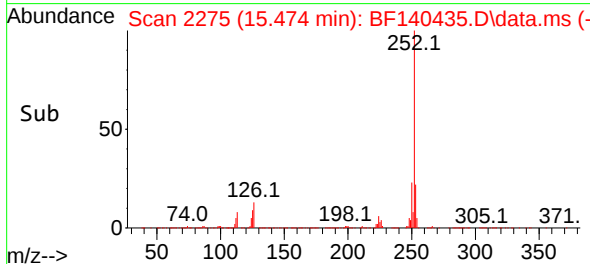
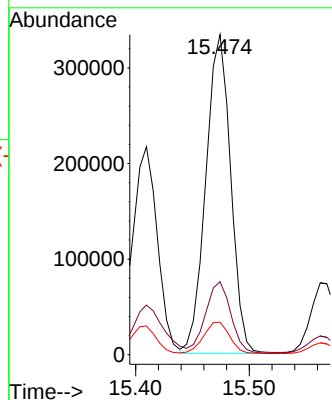
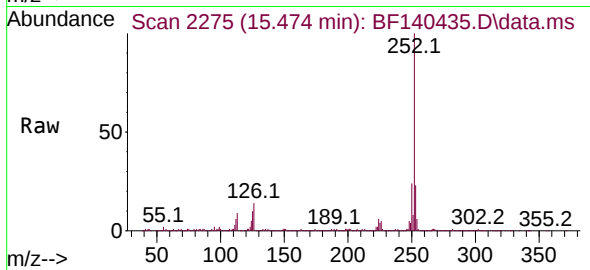
#90
Benzo(a)pyrene
Concen: 46.083 ng
RT: 15.474 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

Instrument :
BNA_F
ClientSampleId :
B-3-2

Tgt Ion:252 Resp: 50831
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.6
125 10.2 8.4 12.6

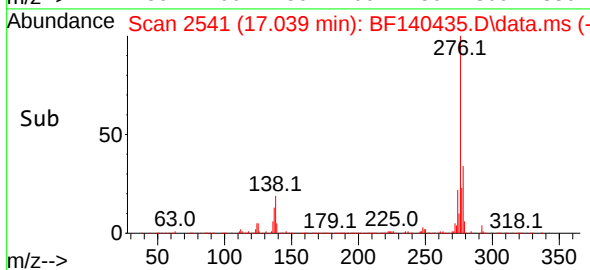
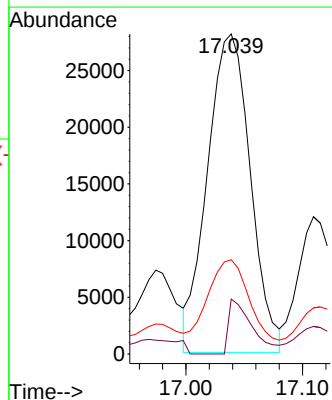
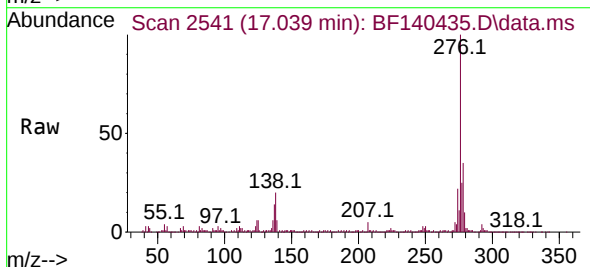
Manual Integrations
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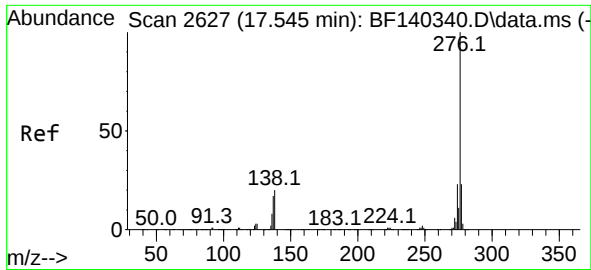
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024



#91
Dibenzo(a,h)anthracene
Concen: 6.496 ng m
RT: 17.039 min Scan# 2541
Delta R.T. -0.035 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

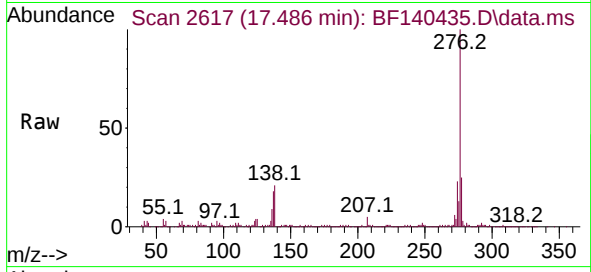
Tgt Ion:278 Resp: 72021
Ion Ratio Lower Upper
278 100
139 17.1 11.8 17.8
279 29.4 18.9 28.3#





#92
Benzo(g,h,i)perylene
Concen: 16.365 ng
RT: 17.486 min Scan# 20
Delta R.T. -0.030 min
Lab File: BF140435.D
Acq: 16 Nov 2024 17:34

Instrument :
BNA_F
ClientSampleId :
B-3-2



Tgt Ion:276 Resp: 18549
Ion Ratio Lower Upper
276 100
277 24.6 18.6 28.0
138 21.4 16.0 24.0

Manual Integrations
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Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

