

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122823\
 Data File : BF136816.D
 Acq On : 29 Dec 2023 02:57
 Operator : CG\JU
 Sample : 06033-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-05-122723

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/29/2023
 Supervised By :mohammad ahmed 12/29/2023

Quant Time: Dec 29 03:20:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	48442	20.000	ng	-0.01
21) Naphthalene-d8	8.057	136	147672	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	70703	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	158684	20.000	ng	0.00
76) Chrysene-d12	13.974	240	104180	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	84383	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	79025	25.453	ng	0.00
7) Phenol-d6	6.428	99	86196	21.426	ng	-0.01
23) Nitrobenzene-d5	7.339	82	45222	15.670	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	21568	25.902	ng	-0.01
45) 2-Fluorobiphenyl	9.133	172	84103	15.999	ng	-0.02
79) Terphenyl-d14	12.904	244	118646	15.915	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.081	128	135284	16.676	ng	99
37) 2-Methylnaphthalene	8.775	142	54468	10.432	ng	96
38) 1-Methylnaphthalene	8.869	142	43015	8.398	ng	99
46) 1,1'-Biphenyl	9.239	154	12145	2.047	ng	96
52) Acenaphthene	9.851	154	79990	18.718	ng	98
55) Dibenzofuran	10.022	168	89630	13.836	ng	96
58) Fluorene	10.369	166	133050	25.885	ng	95
71) Phenanthrene	11.339	178	833291	102.342	ng	99
72) Anthracene	11.386	178	323737	39.261	ng	99
73) Carbazole	11.545	167	78251	10.065	ng	99
75) Fluoranthene	12.539	202	1145964	131.579	ng	96
78) Pyrene	12.769	202	975010	95.337	ng	100
81) Benzo(a)anthracene	13.963	228	420400	58.113	ng	98
83) Chrysene	13.998	228	336281m	47.536	ng	
87) Indeno(1,2,3-cd)pyrene	16.962	276	118579	19.463	ng	94
88) Benzo(b)fluoranthene	15.021	252	310339m	55.064	ng	
89) Benzo(k)fluoranthene	15.045	252	99928m	18.764	ng	
90) Benzo(a)pyrene	15.392	252	222536	46.777	ng	96
91) Dibenzo(a,h)anthracene	16.974	278	29479	5.898	ng	# 85
92) Benzo(g,h,i)perylene	17.421	276	104621	20.436	ng	96

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

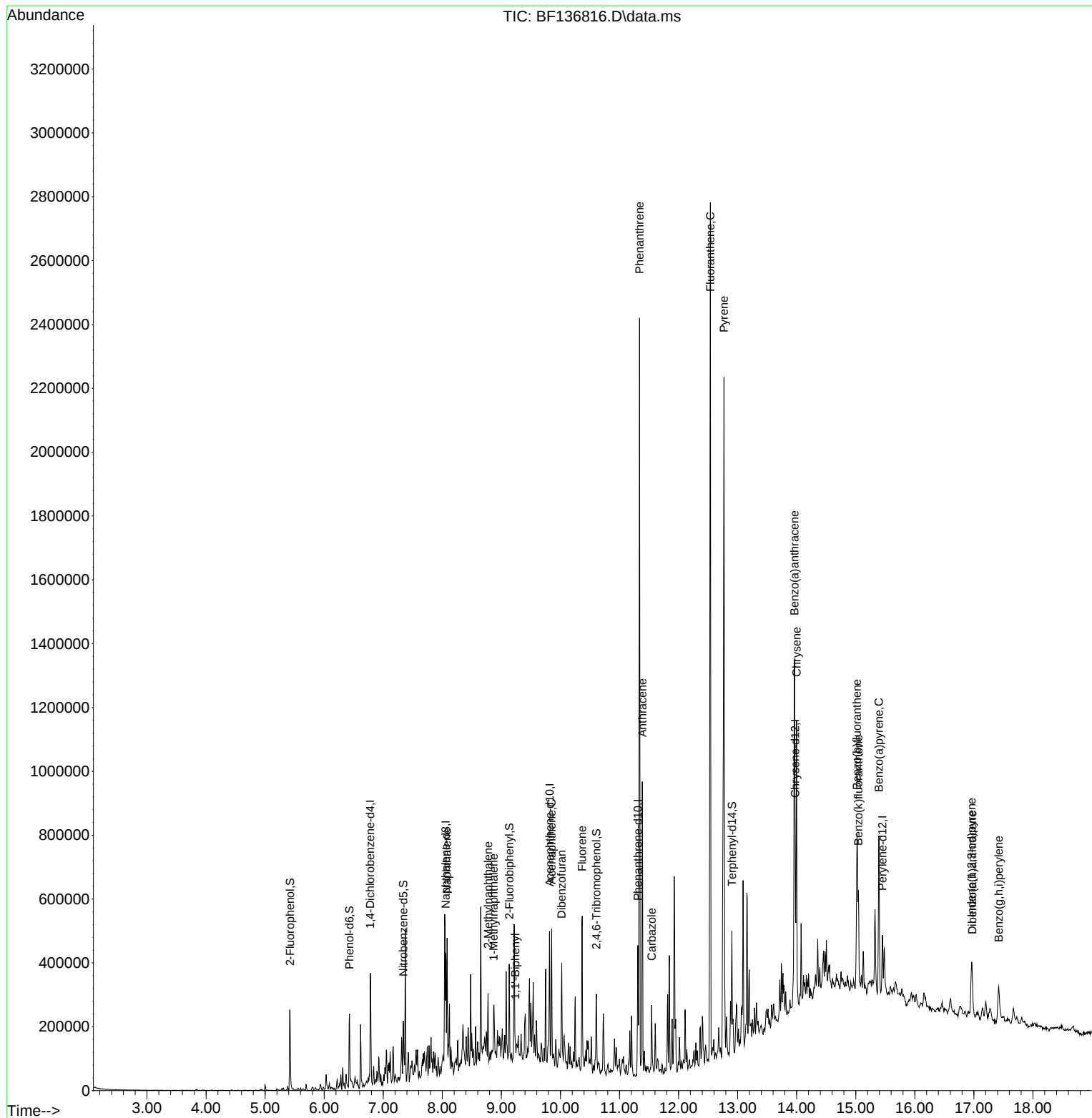
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122823\
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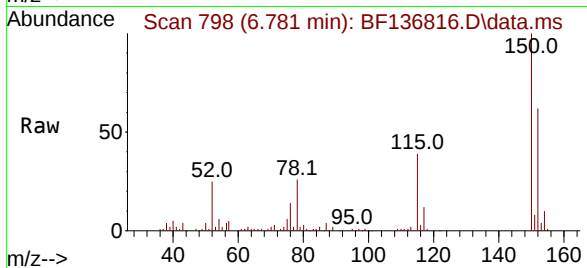
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 70
Delta R.T. -0.011 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

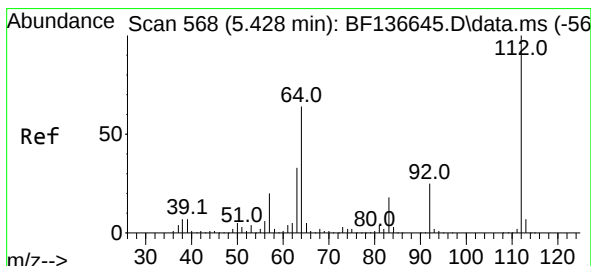
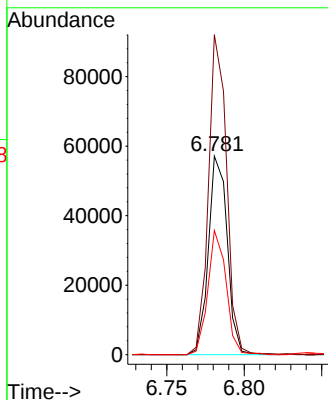
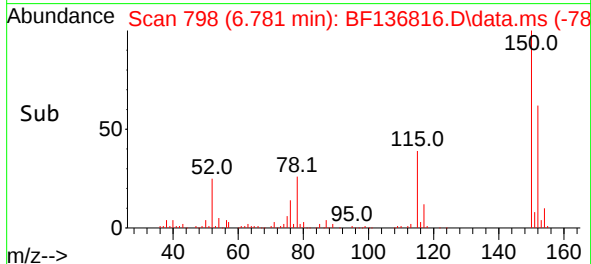
Instrument :
BNA_F
ClientSampleId :
OR-05-122723



Tgt Ion:152 Resp: 4844
Ion Ratio Lower Upper
152 100
150 161.1 127.0 190.6
115 62.5 49.0 73.4

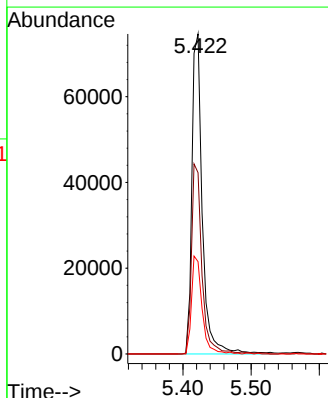
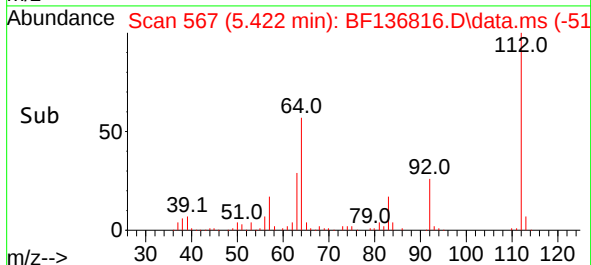
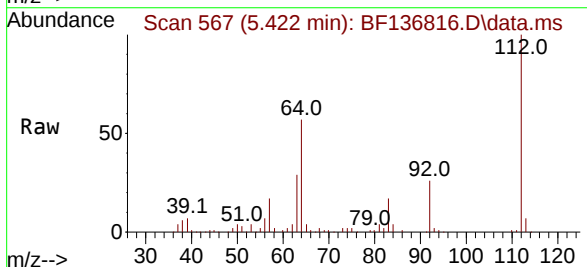
Manual Integrations
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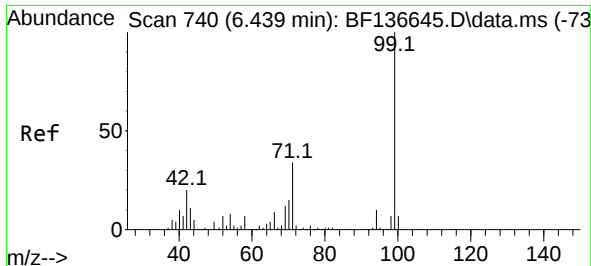
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023



#5
2-Fluorophenol
Concen: 25.453 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

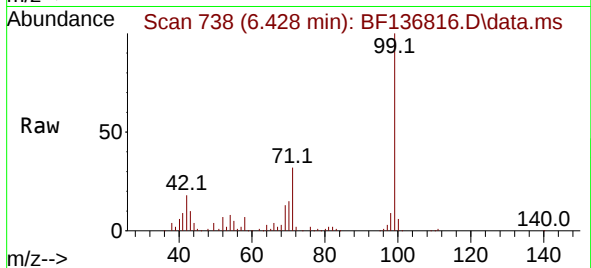
Tgt Ion:112 Resp: 79025
Ion Ratio Lower Upper
112 100
64 56.7 51.1 76.7
63 28.8 26.1 39.1





#7
Phenol-d6
Concen: 21.426 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

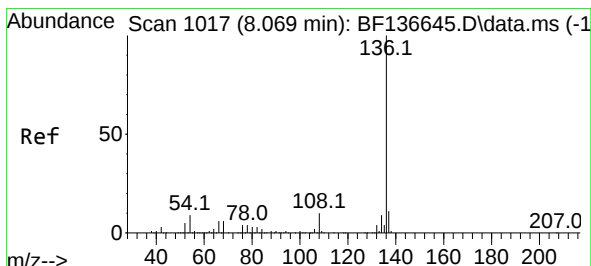
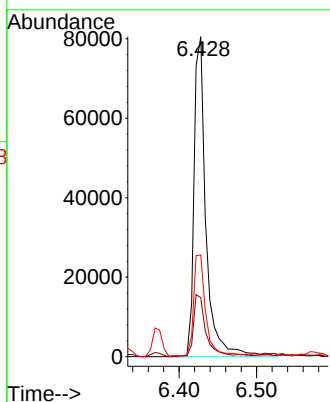
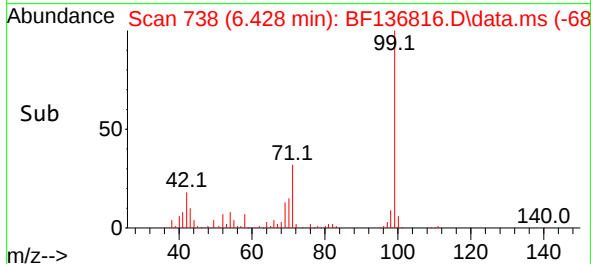
Instrument :
BNA_F
ClientSampleId :
OR-05-122723



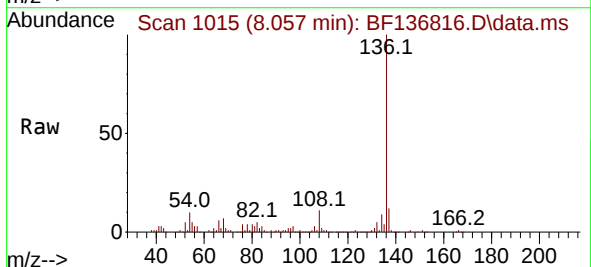
Tgt Ion: 99 Resp: 86190
Ion Ratio Lower Upper
99 100
42 18.4 16.1 24.1
71 31.8 27.4 41.2

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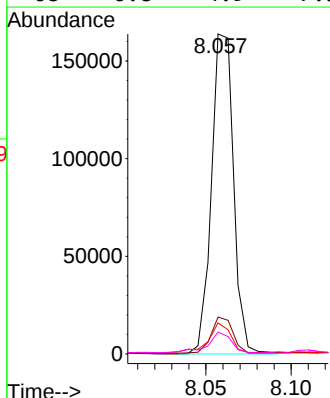
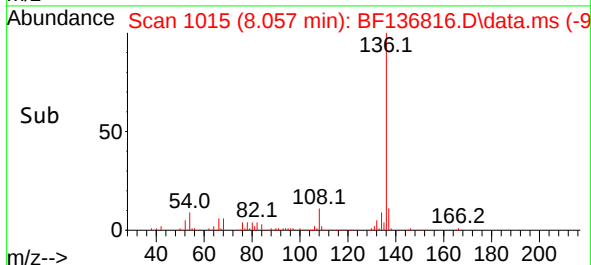
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023

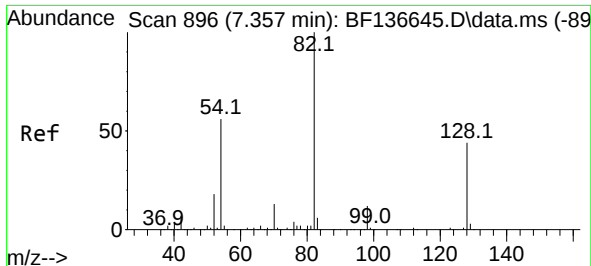


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57



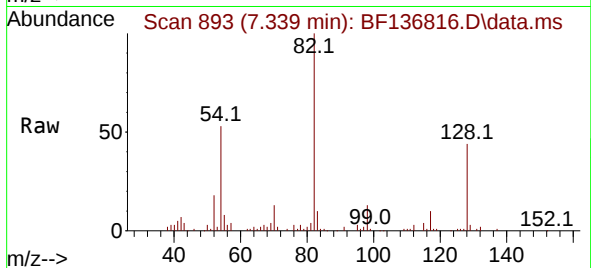
Tgt Ion:136 Resp: 147672
Ion Ratio Lower Upper
136 100
137 11.6 9.0 13.4
54 9.7 7.2 10.8
68 6.8 4.9 7.3





#23
Nitrobenzene-d5
Concen: 15.670 ng
RT: 7.339 min Scan# 84
Delta R.T. -0.018 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

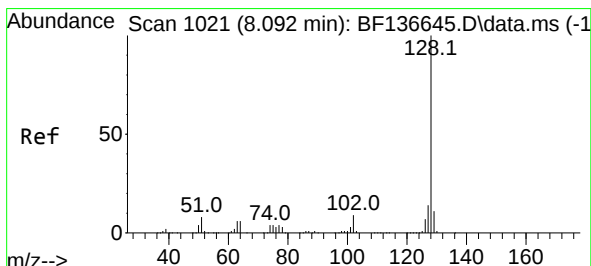
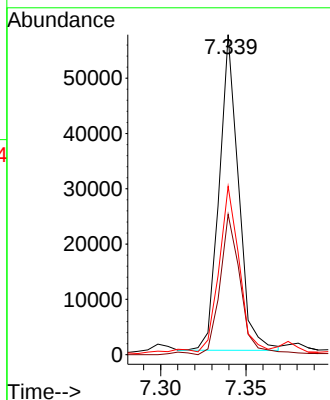
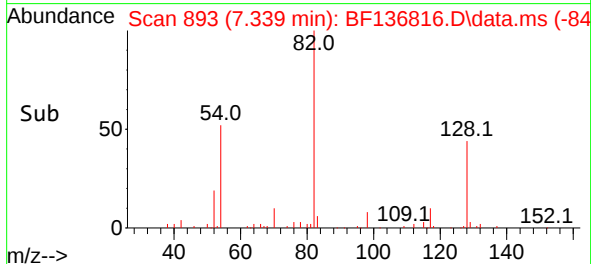
Instrument :
BNA_F
ClientSampleId :
OR-05-122723



Tgt Ion: 82 Resp: 4522
Ion Ratio Lower Upper
82 100
128 43.8 35.3 52.9
54 52.6 44.5 66.7

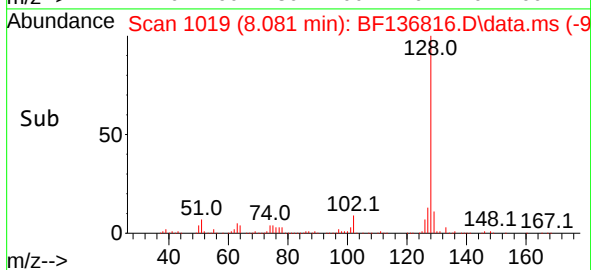
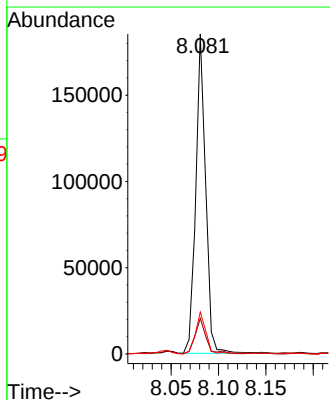
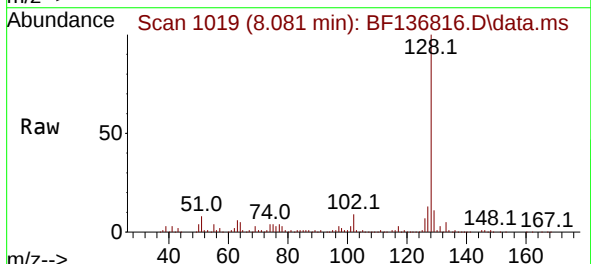
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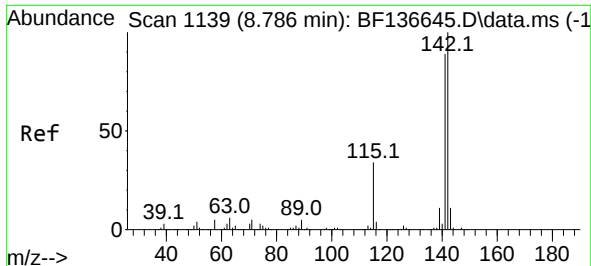
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023



#31
Naphthalene
Concen: 16.676 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:128 Resp: 135284
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.1 10.8 16.2





#37

2-Methylnaphthalene

Concen: 10.432 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

Tgt Ion:142 Resp: 5446

Ion Ratio Lower Upper

142 100

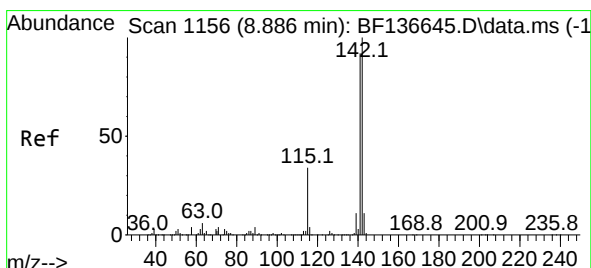
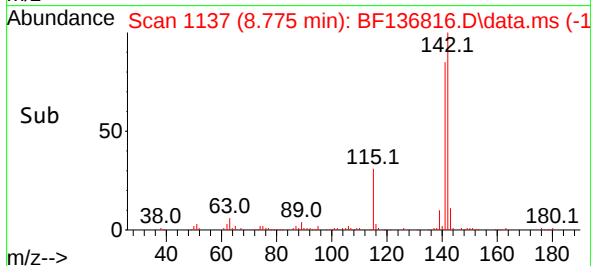
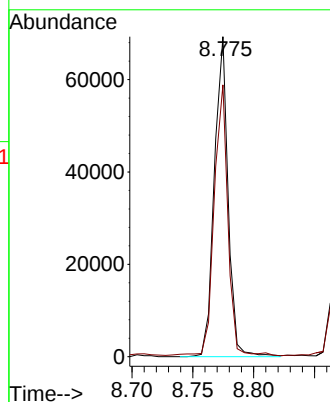
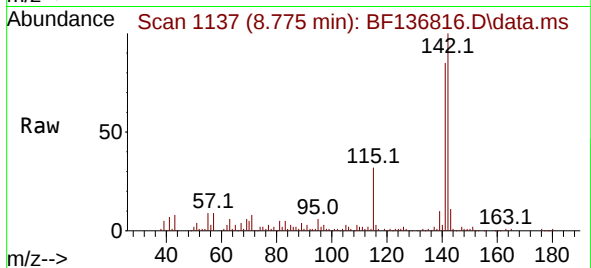
141 85.0 71.1 106.7

Manual Integrations

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Reviewed By :Yogesh Patel 12/29/2023

Supervised By :mohammad ahmed 12/29/2023



#38

1-Methylnaphthalene

Concen: 8.398 ng

RT: 8.869 min Scan# 1153

Delta R.T. -0.018 min

Lab File: BF136816.D

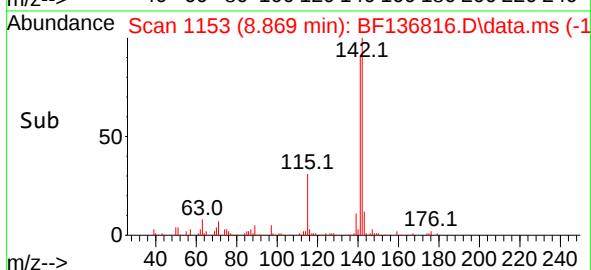
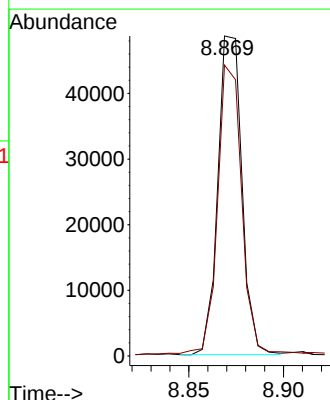
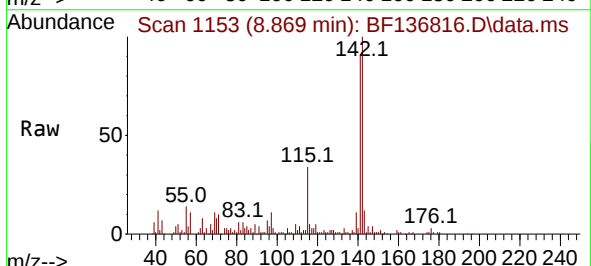
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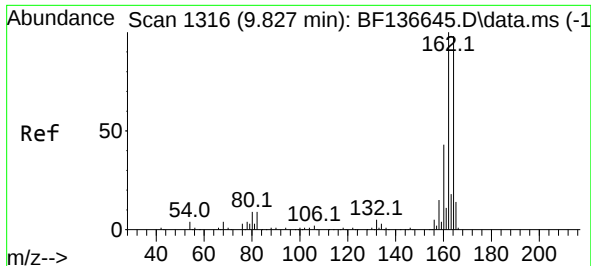
Tgt Ion:142 Resp: 43015

Ion Ratio Lower Upper

142 100

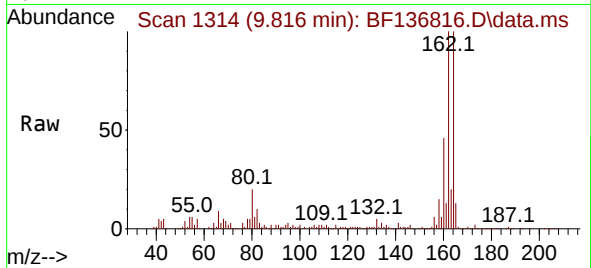
141 90.9 73.6 110.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

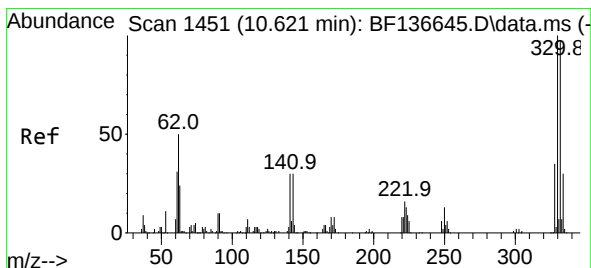
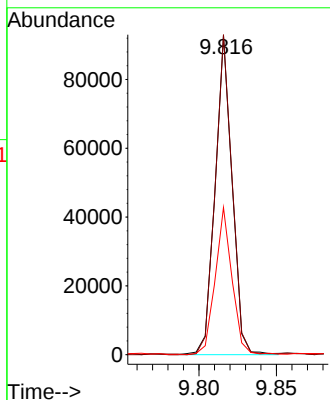
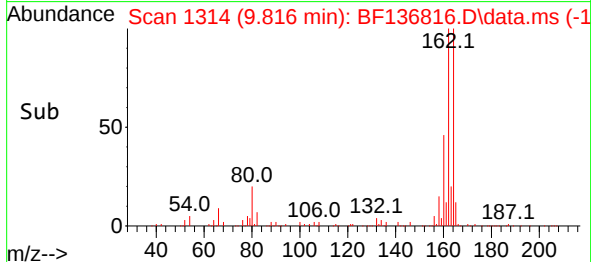
Instrument :
BNA_F
ClientSampleId :
OR-05-122723



Tgt Ion:164 Resp: 7070
Ion Ratio Lower Upper
164 100
162 100.2 81.6 122.4
160 46.1 34.9 52.3

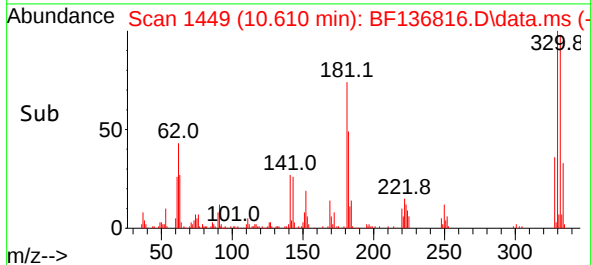
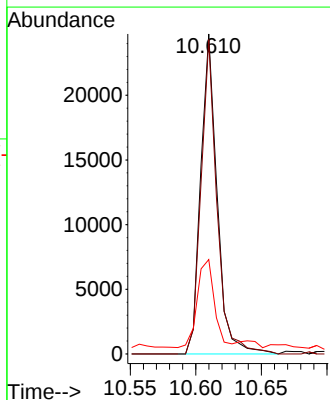
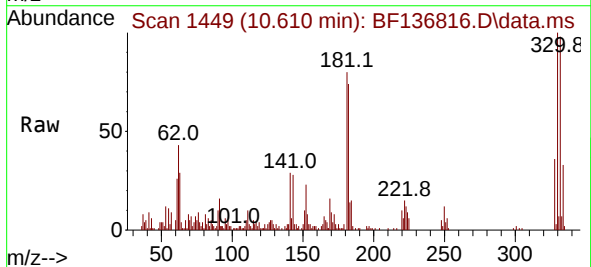
Manual Integrations
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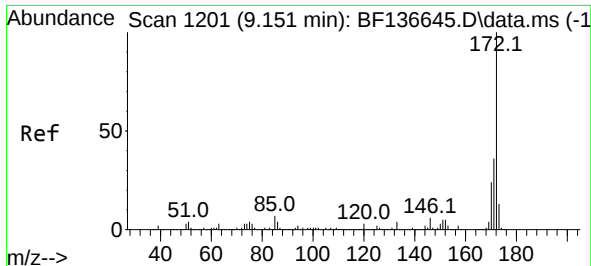
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023



#42
2,4,6-Tribromophenol
Concen: 25.902 ng
RT: 10.610 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:330 Resp: 21568
Ion Ratio Lower Upper
330 100
332 95.6 77.4 116.0
141 29.0 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 15.999 ng

RT: 9.133 min Scan# 1198

Delta R.T. -0.018 min

Lab File: BF136816.D

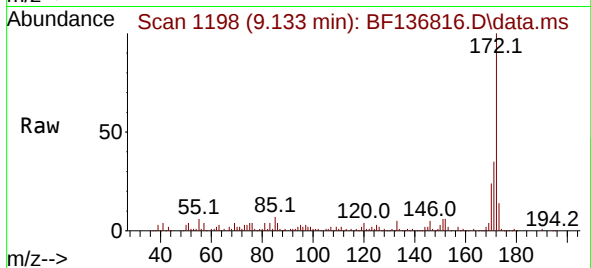
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Instrument :

BNA_F

ClientSampleId :

OR-05-122723



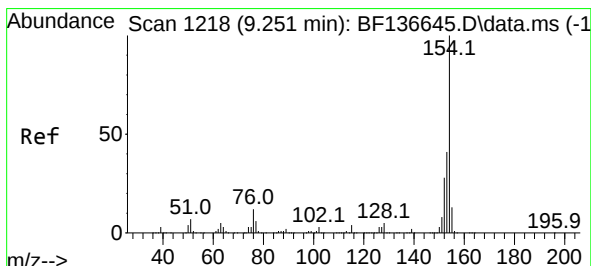
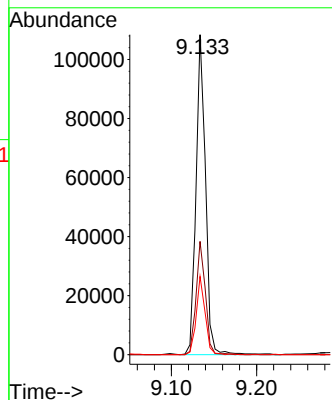
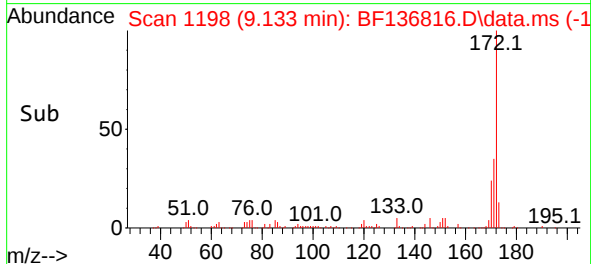
Tgt Ion:	172	Resp:	8410
Ion Ratio	Lower	Upper	
172	100		
171	35.4	29.0	43.6
170	24.4	19.0	28.4

Manual Integrations

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Supervised By :mohammad ahmed 12/29/2023



#46

1,1'-Biphenyl

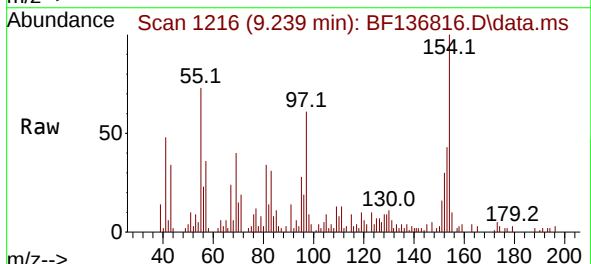
Concen: 2.047 ng

RT: 9.239 min Scan# 1216

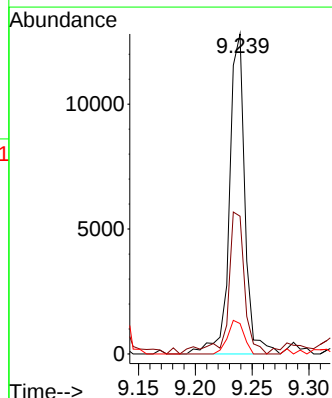
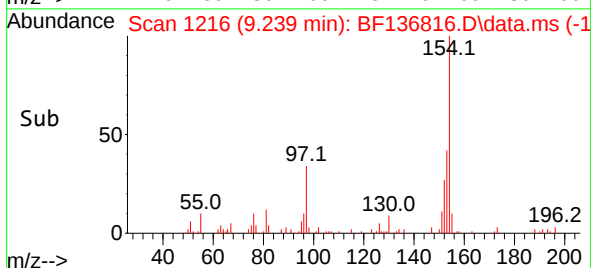
Delta R.T. -0.012 min

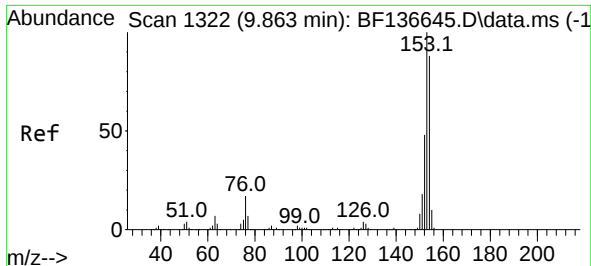
Lab File: BF136816.D

Acq: 29 Dec 2023 02:57



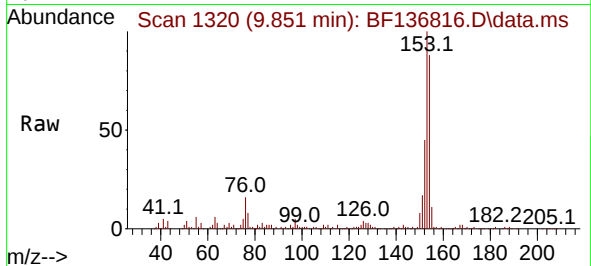
Tgt Ion:	154	Resp:	12145
Ion Ratio	Lower	Upper	
154	100		
153	43.0	21.1	61.1
76	9.5	0.0	31.7





#52
Acenaphthene
Concen: 18.718 ng
RT: 9.851 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

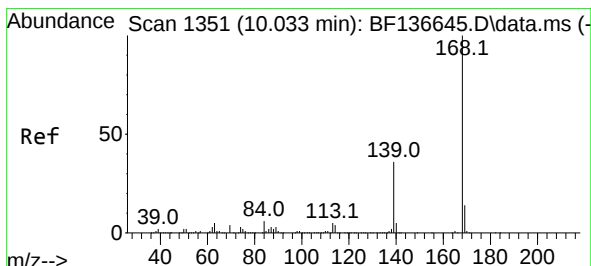
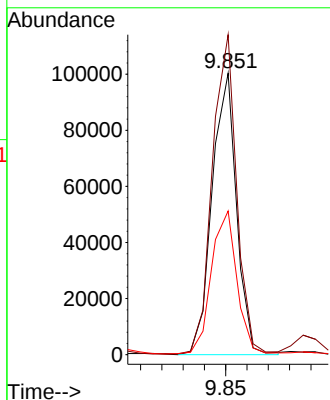
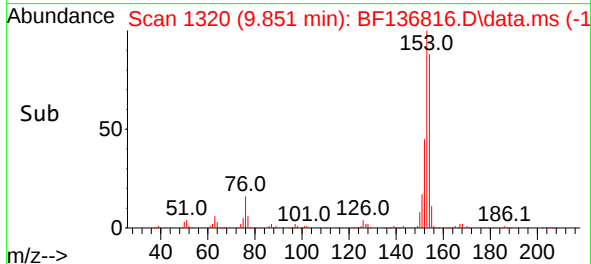
Instrument :
BNA_F
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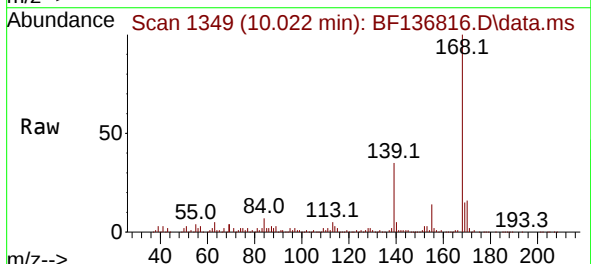
Tgt Ion:154 Resp: 79990
Ion Ratio Lower Upper
154 100
153 113.7 90.7 136.1
152 51.1 43.7 65.5

Manual Integrations
APPROVED

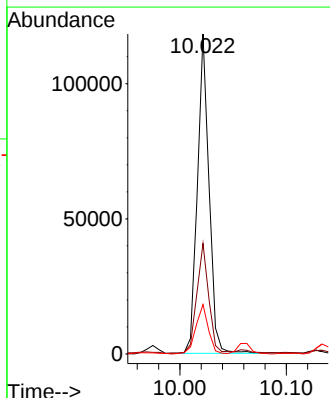
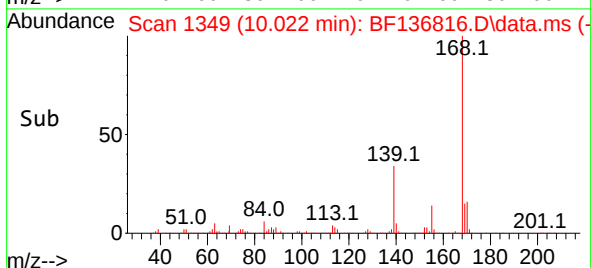
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023

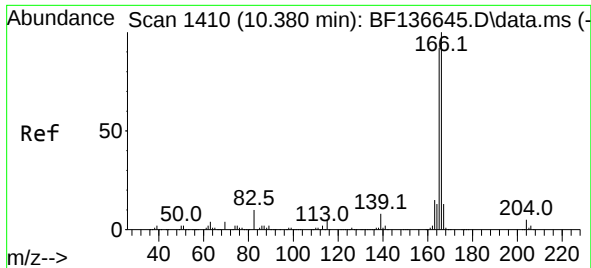


#55
Dibenzofuran
Concen: 13.836 ng
RT: 10.022 min Scan# 1349
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57



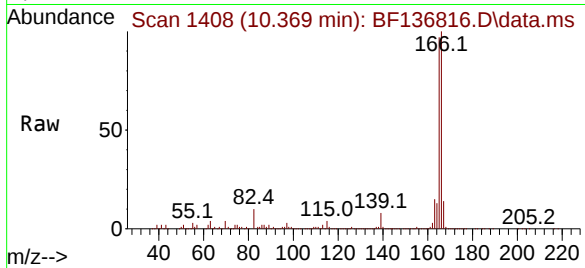
Tgt Ion:168 Resp: 89630
Ion Ratio Lower Upper
168 100
139 34.6 29.3 43.9
169 15.4 11.0 16.4





#58
Fluorene
Concen: 25.885 ng
RT: 10.369 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

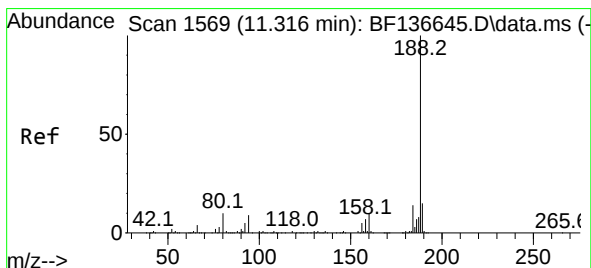
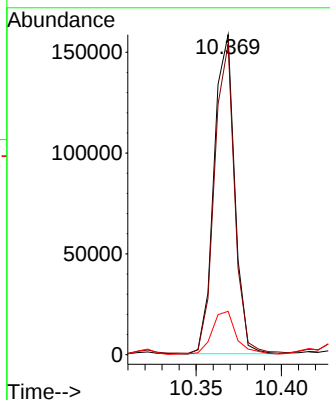
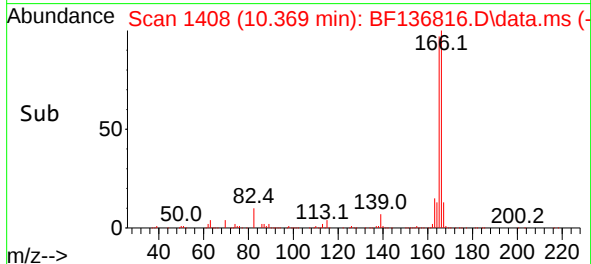
Instrument :
BNA_F
ClientSampleId :
OR-05-122723



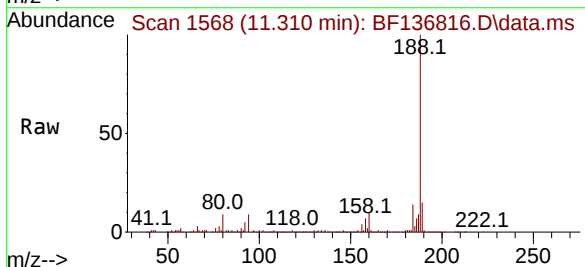
Tgt Ion:166 Resp: 133050
Ion Ratio Lower Upper
166 100
165 97.1 73.7 110.5
167 13.6 10.4 15.6

Manual Integrations
APPROVED

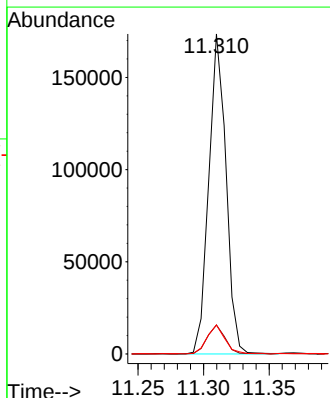
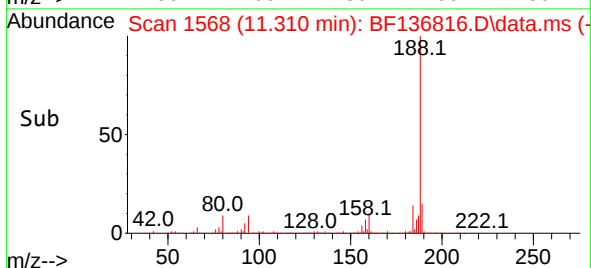
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023

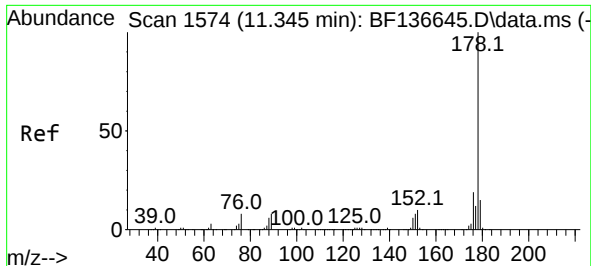


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57



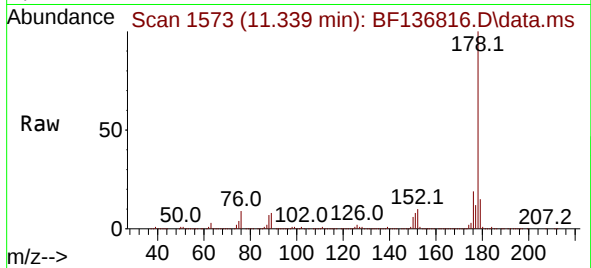
Tgt Ion:188 Resp: 158684
Ion Ratio Lower Upper
188 100
94 9.1 7.5 11.3
80 9.0 8.1 12.1





#71
Phenanthrene
Concen: 102.342 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

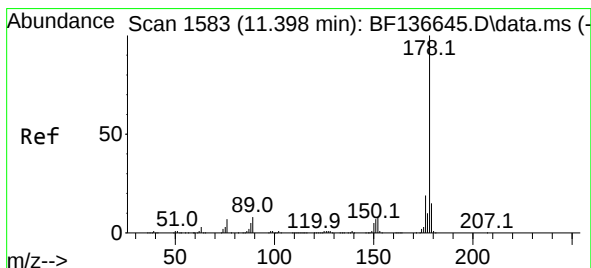
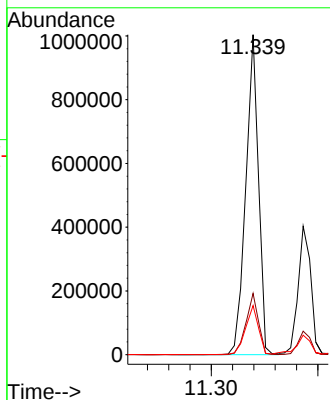
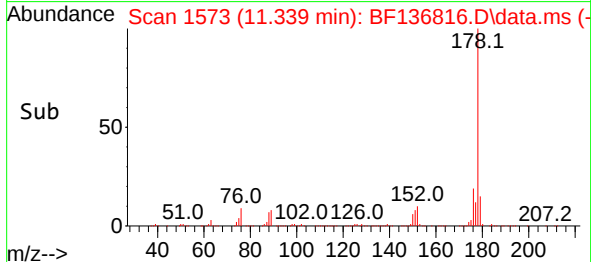
Instrument :
BNA_F
ClientSampleId :
OR-05-122723



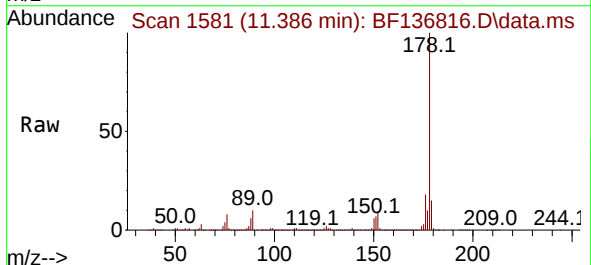
Tgt Ion:178 Resp: 83329
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.4 11.9 17.9

Manual Integrations
APPROVED

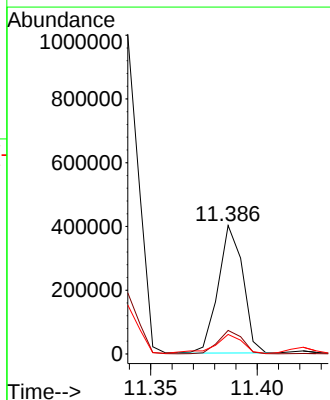
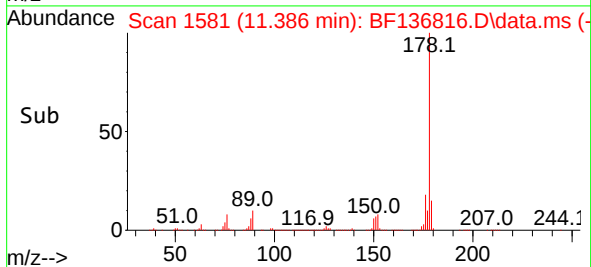
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023

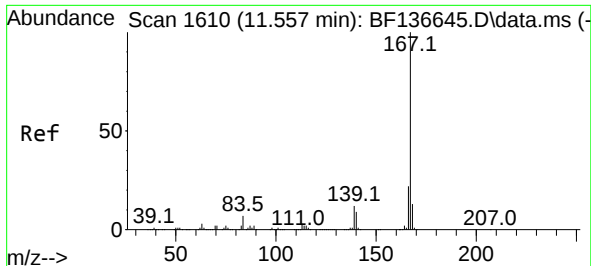


#72
Anthracene
Concen: 39.261 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57



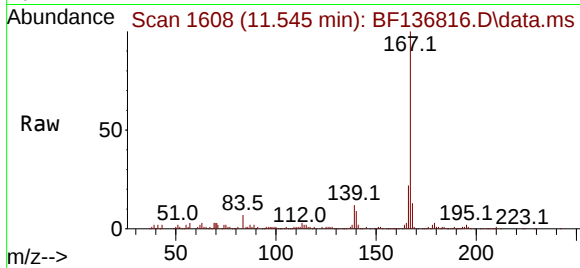
Tgt Ion:178 Resp: 323737
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 15.1 11.8 17.6





#73
 Carbazole
 Concen: 10.065 ng
 RT: 11.545 min Scan# 1608
 Delta R.T. -0.012 min
 Lab File: BF136816.D
 Acq: 29 Dec 2023 02:57

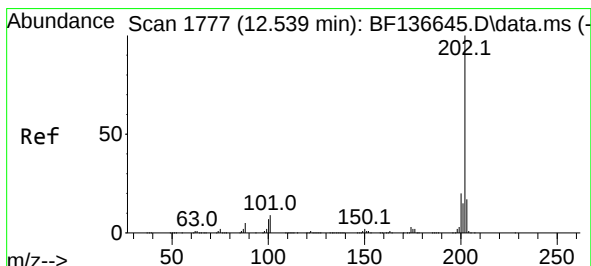
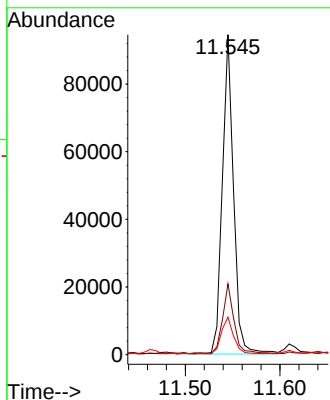
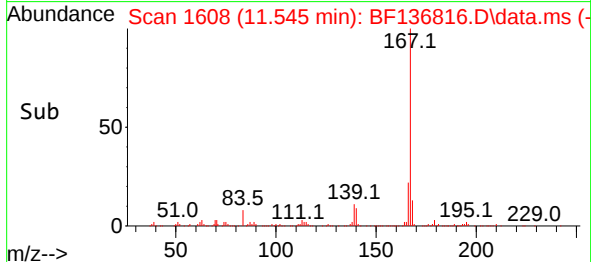
Instrument :
 BNA_F
 ClientSampleId :
 OR-05-122723



Tgt Ion:167 Resp: 7825
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.3 25.9
 139 11.7 9.8 14.6

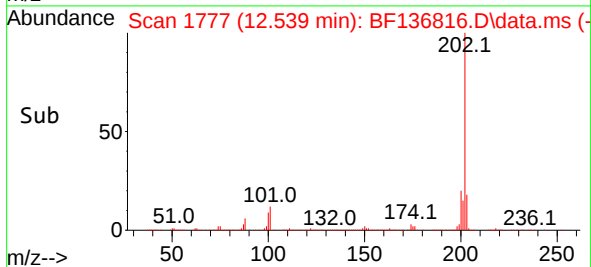
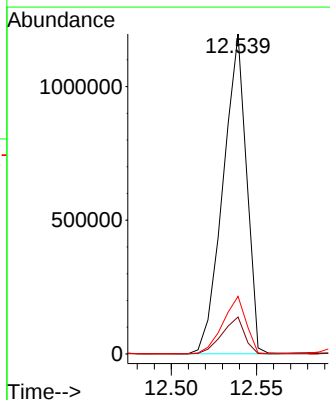
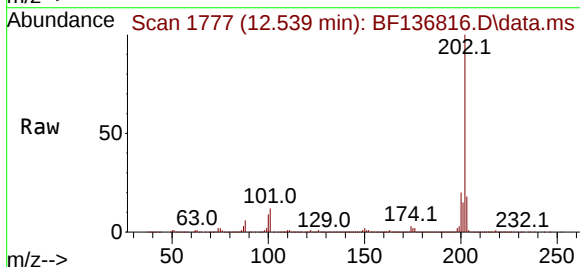
Manual Integrations
 APPROVED

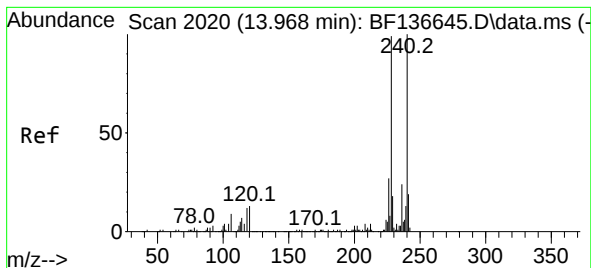
Reviewed By :Yogesh Patel 12/29/2023
 Supervised By :mohammad ahmed 12/29/2023



#75
 Fluoranthene
 Concen: 131.579 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. 0.000 min
 Lab File: BF136816.D
 Acq: 29 Dec 2023 02:57

Tgt Ion:202 Resp: 1145964
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 29.3
 203 18.0 0.0 37.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

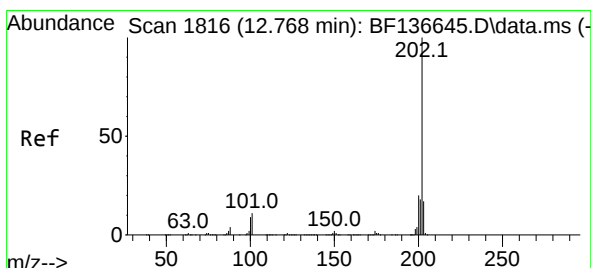
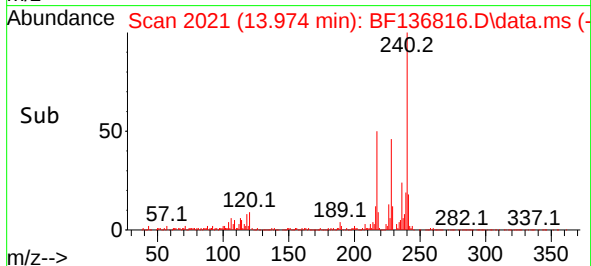
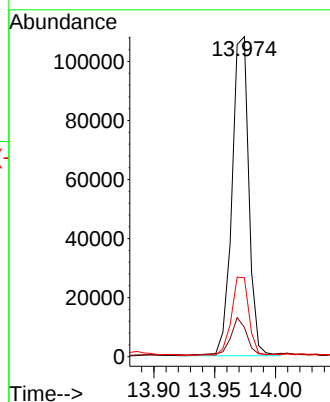
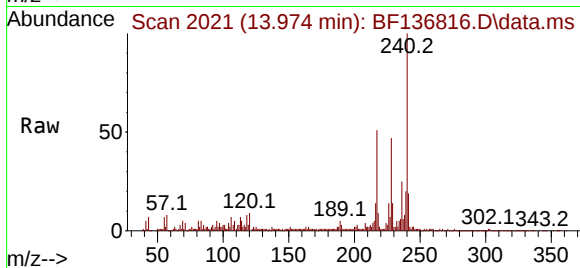
OR-05-122723

Tgt Ion:240 Resp: 104180
Ion Ratio Lower Upper
240 100
120 9.2 10.3 15.5
236 24.7 19.4 29.2

Manual Integrations

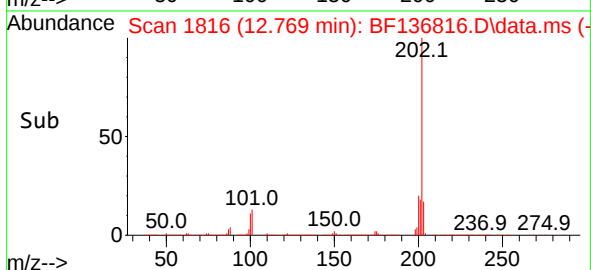
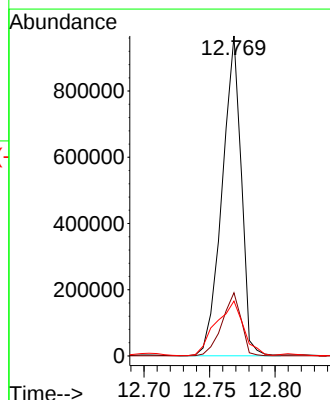
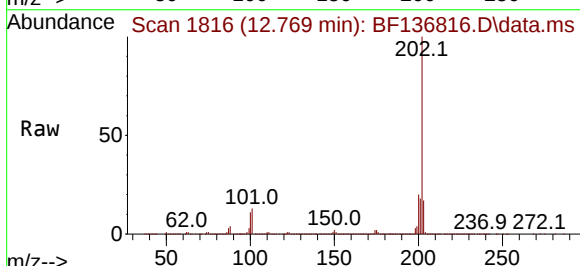
APPROVED

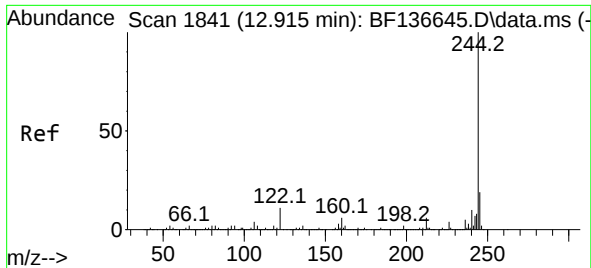
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023



#78
Pyrene
Concen: 95.337 ng
RT: 12.769 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:202 Resp: 975010
Ion Ratio Lower Upper
202 100
200 19.7 15.9 23.9
203 17.2 13.8 20.6





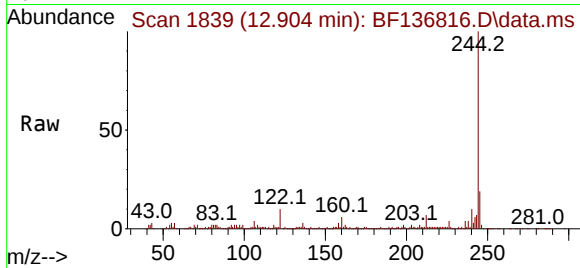
#79
Terphenyl-d14
Concen: 15.915 ng
RT: 12.904 min Scan# 1841
Delta R.T. -0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

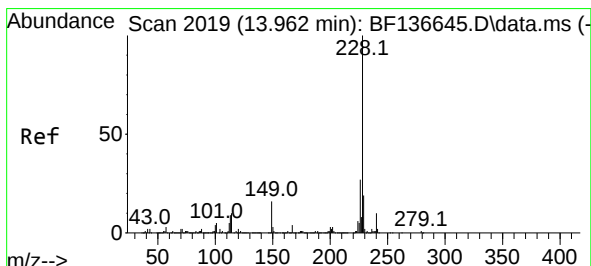
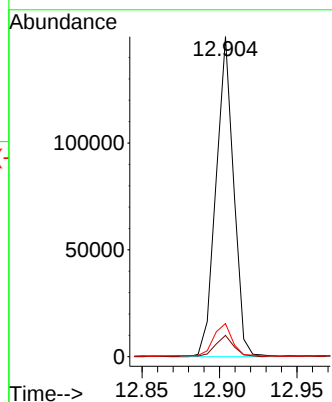
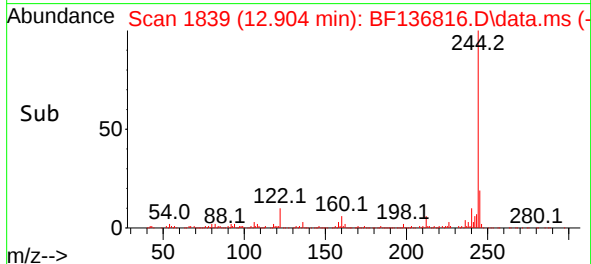


Tgt Ion:244 Resp: 118640
Ion Ratio Lower Upper
244 100
212 6.7 5.0 7.4
122 10.4 9.0 13.4

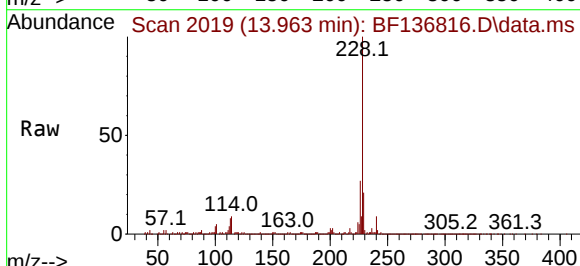
Manual Integrations

APPROVED

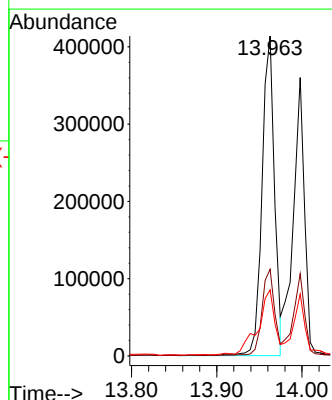
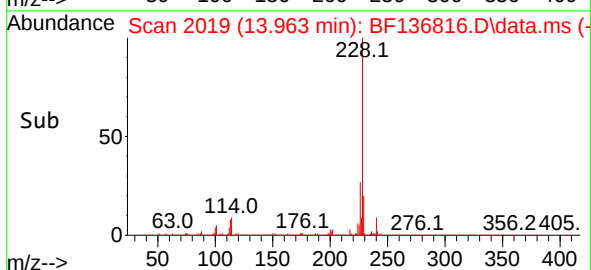
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023

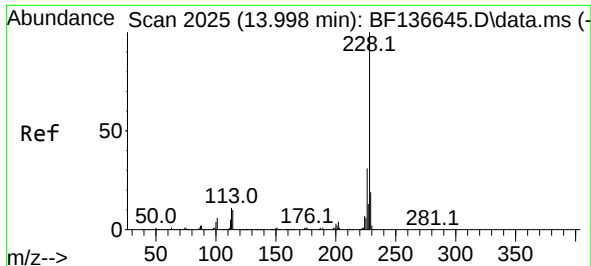


#81
Benzo(a)anthracene
Concen: 58.113 ng
RT: 13.963 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57



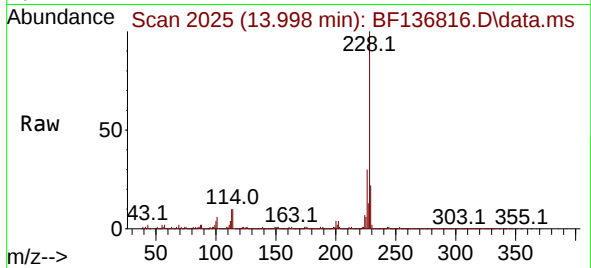
Tgt Ion:228 Resp: 420400
Ion Ratio Lower Upper
228 100
226 27.1 21.4 32.0
229 20.7 14.9 22.3





#83
Chrysene
Concen: 47.536 ng m
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

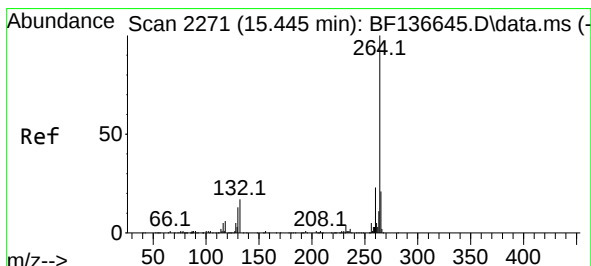
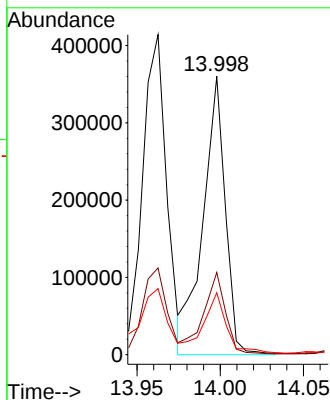
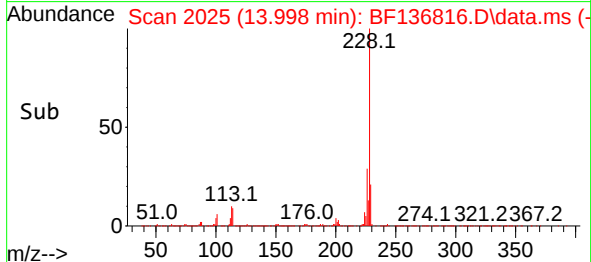
Instrument :
BNA_F
ClientSampleId :
OR-05-122723



Tgt Ion:228 Resp: 33628
Ion Ratio Lower Upper
228 100
226 29.5 24.7 37.1
229 22.2 15.4 23.0

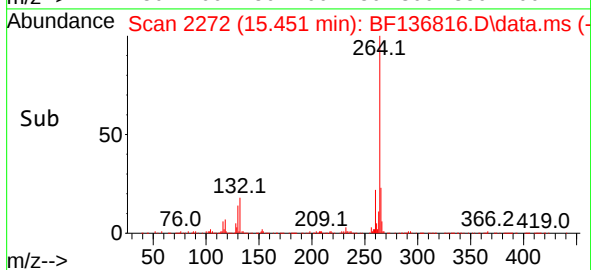
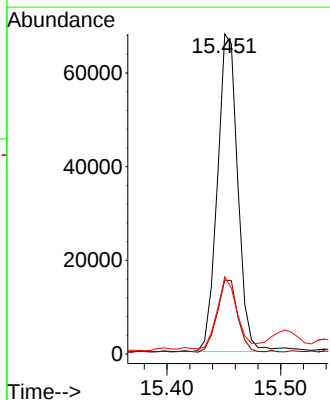
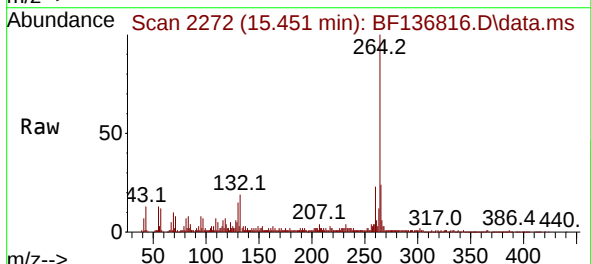
Manual Integrations
APPROVED

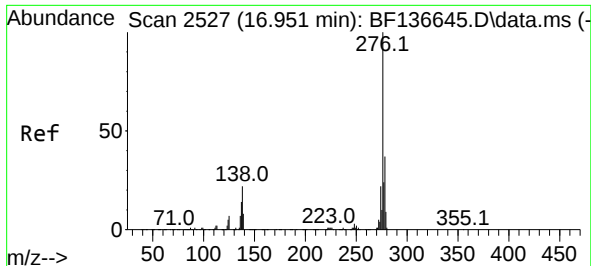
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Tgt Ion:264 Resp: 84383
Ion Ratio Lower Upper
264 100
260 23.1 18.3 27.5
265 24.1 17.0 25.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 19.463 ng
RT: 16.962 min Scan# 2199
Delta R.T. 0.012 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

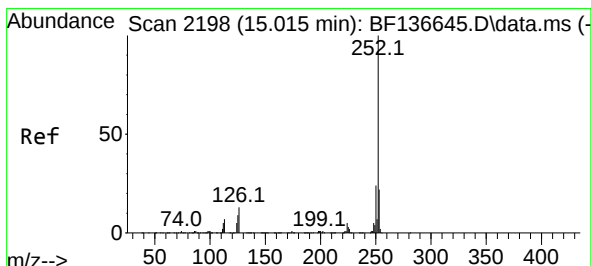
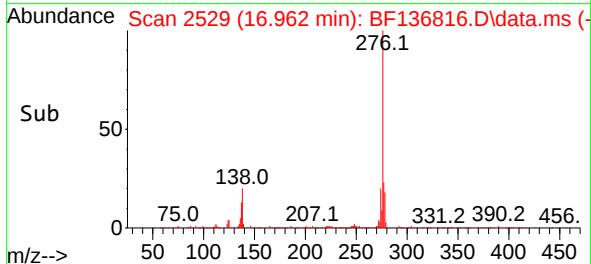
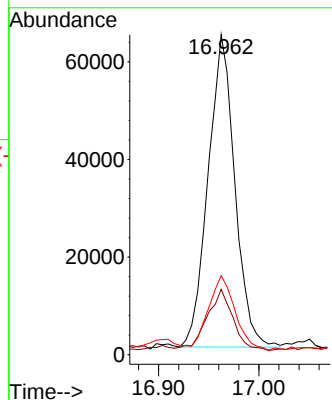
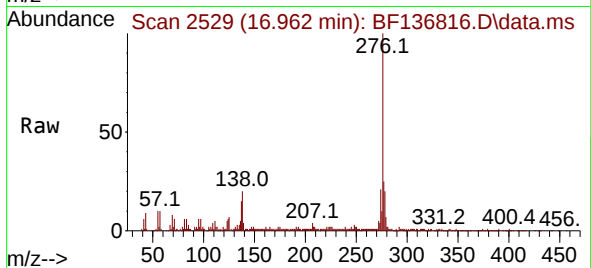
OR-05-122723

Tgt Ion:276 Resp: 118579
Ion Ratio Lower Upper
276 100
138 19.3 18.7 28.1
277 23.5 20.2 30.2

Manual Integrations

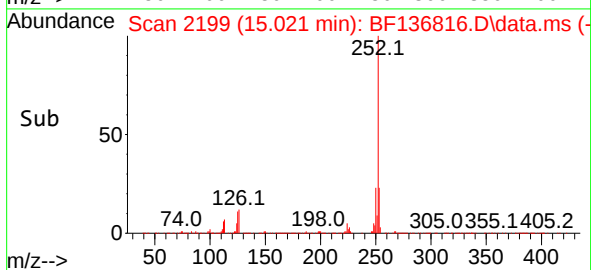
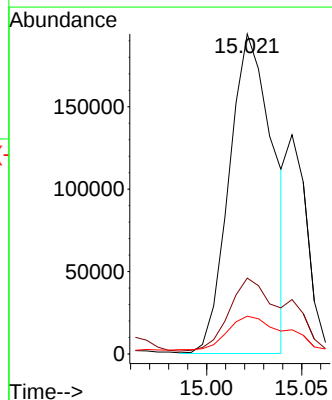
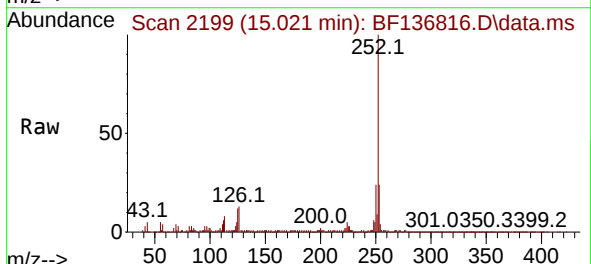
APPROVED

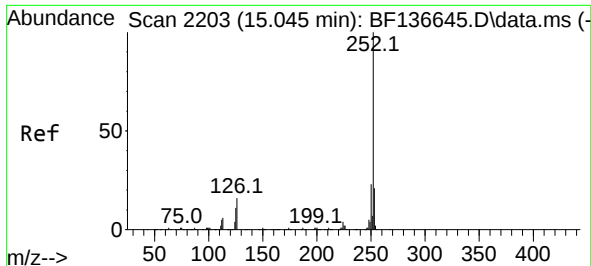
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023



#88
Benzo(b)fluoranthene
Concen: 55.064 ng m
RT: 15.021 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

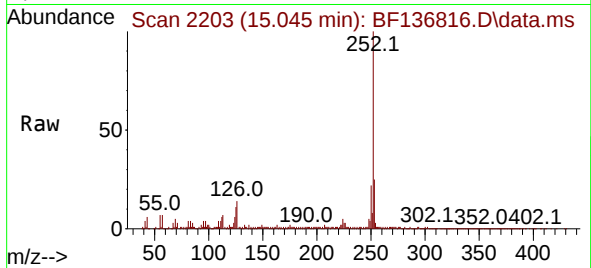
Tgt Ion:252 Resp: 310339
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.0
125 11.8 7.4 11.2#





#89
Benzo(k)fluoranthene
Concen: 18.764 ng m
RT: 15.045 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57

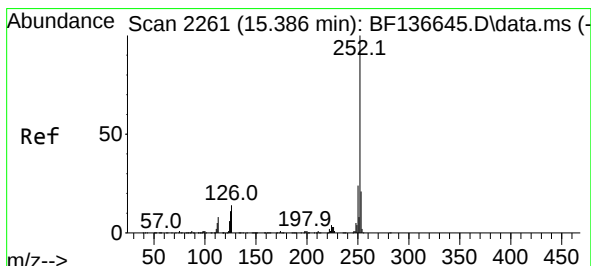
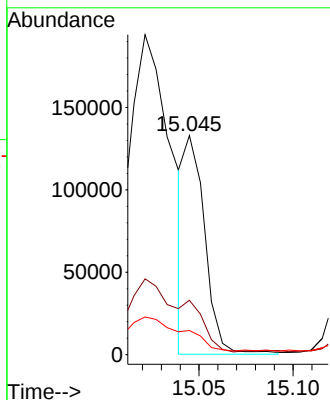
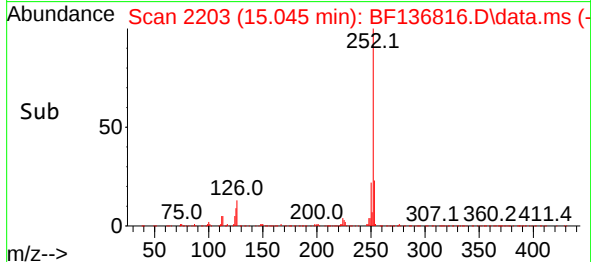
Instrument :
BNA_F
ClientSampleId :
OR-05-122723



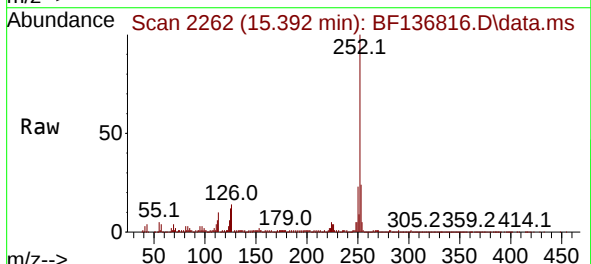
Tgt Ion:252 Resp: 99928
Ion Ratio Lower Upper
252 100
253 24.8 17.0 25.6
125 11.1 8.2 12.4

Manual Integrations
APPROVED

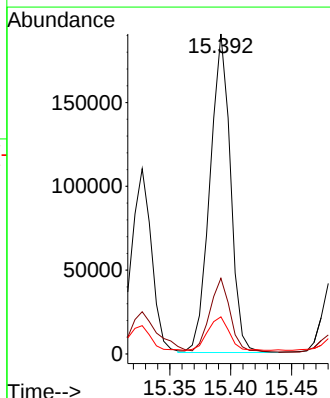
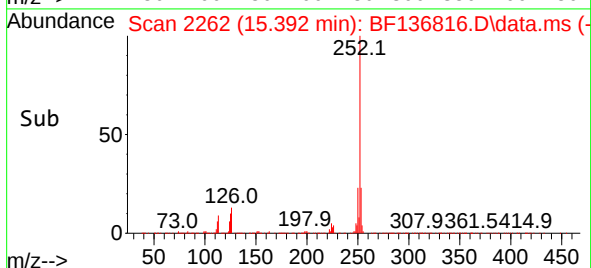
Reviewed By :Yogesh Patel 12/29/2023
Supervised By :mohammad ahmed 12/29/2023

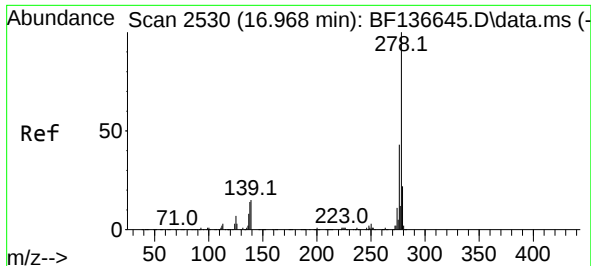


#90
Benzo(a)pyrene
Concen: 46.777 ng
RT: 15.392 min Scan# 2262
Delta R.T. 0.006 min
Lab File: BF136816.D
Acq: 29 Dec 2023 02:57



Tgt Ion:252 Resp: 222536
Ion Ratio Lower Upper
252 100
253 23.7 17.0 25.6
125 11.6 8.8 13.2





#91

Dibenzo(a,h)anthracene

Concen: 5.898 ng

RT: 16.974 min Scan# 2531

Delta R.T. 0.006 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Instrument :

BNA_F

ClientSampleId :

OR-05-122723

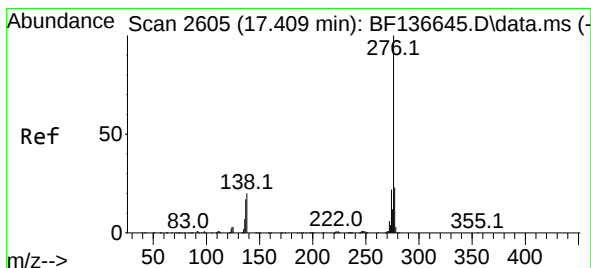
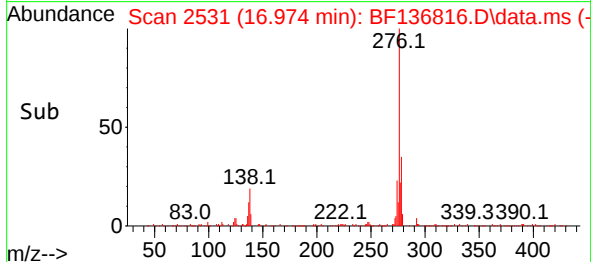
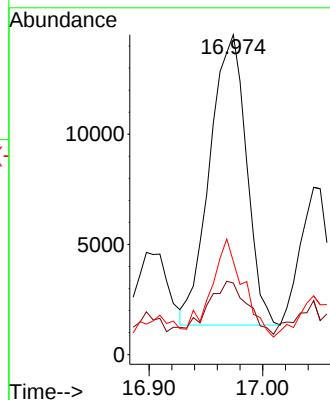
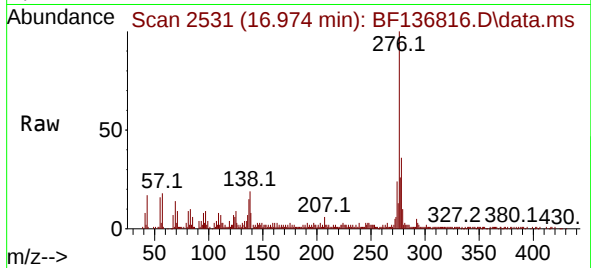
Tgt Ion:	278	Resp:	29479
Ion Ratio	Lower	Upper	
278	100		
139	22.4	12.2	18.4
279	29.1	17.8	26.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/29/2023

Supervised By :mohammad ahmed 12/29/2023



#92

Benzo(g,h,i)perylene

Concen: 20.436 ng

RT: 17.421 min Scan# 2607

Delta R.T. 0.012 min

Lab File: BF136816.D

Acq: 29 Dec 2023 02:57

Tgt Ion:	276	Resp:	104621
Ion Ratio	Lower	Upper	
276	100		
277	24.7	18.3	27.5
138	21.0	15.6	23.4

