

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102623\
 Data File : BF135975.D
 Acq On : 26 Oct 2023 21:28
 Operator : CG\JU
 Sample : 05012-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BU-03-10232023

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/27/2023
 Supervised By :mohammad ahmed 10/27/2023

Quant Time: Oct 27 01:21:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 26 03:58:01 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	158033	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	561642	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	221749	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	391563	20.000	ng	0.00
76) Chrysene-d12	14.010	240	299790	20.000	ng	0.00
86) Perylene-d12	15.498	264	229262	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	401264	39.208	ng	0.00
7) Phenol-d6	6.446	99	480839	37.739	ng	-0.01
23) Nitrobenzene-d5	7.381	82	253387	35.567	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	82493	42.501	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	460292	33.238	ng	0.00
79) Terphenyl-d14	12.957	244	518308	28.886	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	546450	20.124	ng	99
37) 2-Methylnaphthalene	8.816	142	75741	4.216	ng	97
38) 1-Methylnaphthalene	8.916	142	49098	2.925	ng	99
52) Acenaphthene	9.892	154	84516	6.726	ng	99
55) Dibenzofuran	10.069	168	108352	5.969	ng	# 96
58) Fluorene	10.410	166	76997	5.669	ng	# 98
71) Phenanthrene	11.380	178	810969	40.937	ng	99
72) Anthracene	11.428	178	134552	6.633	ng	99
73) Carbazole	11.586	167	57758	3.192	ng	94
75) Fluoranthene	12.580	202	1045454	50.163	ng	99
78) Pyrene	12.810	202	1078501	42.846	ng	99
81) Benzo(a)anthracene	14.004	228	486261	23.855	ng	98
83) Chrysene	14.039	228	476064	23.979	ng	98
87) Indeno(1,2,3-cd)pyrene	17.004	276	200600	15.431	ng	95
88) Benzo(b)fluoranthene	15.063	252	491055m	35.991	ng	
89) Benzo(k)fluoranthene	15.086	252	143683m	10.723	ng	
90) Benzo(a)pyrene	15.433	252	339609	27.007	ng	98
91) Dibenzo(a,h)anthracene	17.027	278	49366	4.440	ng	# 94
92) Benzo(g,h,i)perylene	17.462	276	194341	17.926	ng	100

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

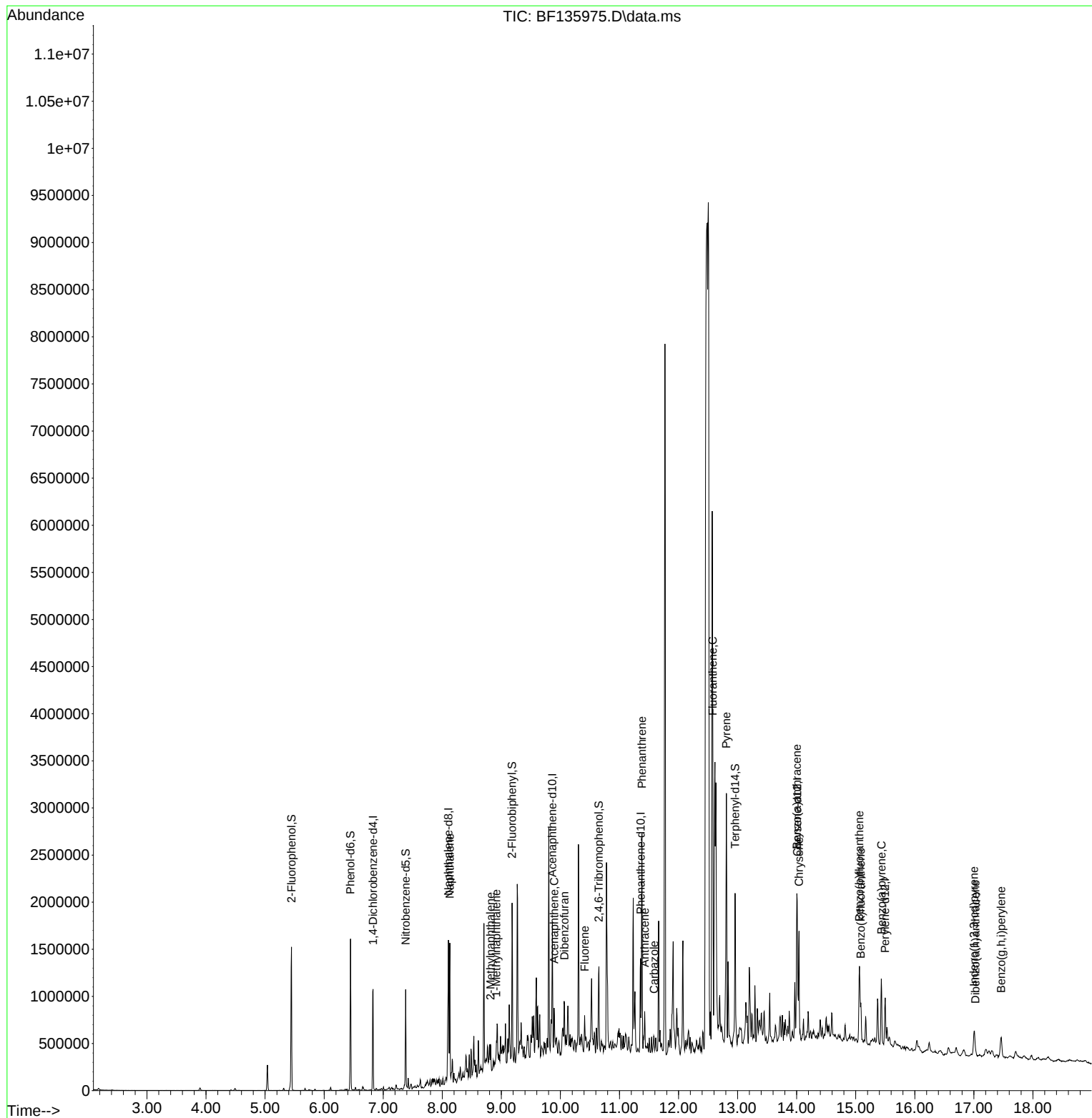
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102623\
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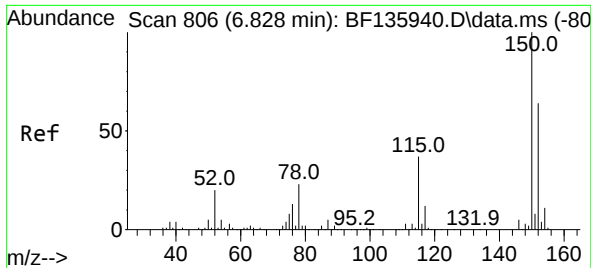
Instrument :
BNA_F
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BU-03-10232023

Quant Time: Oct 27 01:21:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102523.M
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QLast Update : Thu Oct 26 03:58:01 2023
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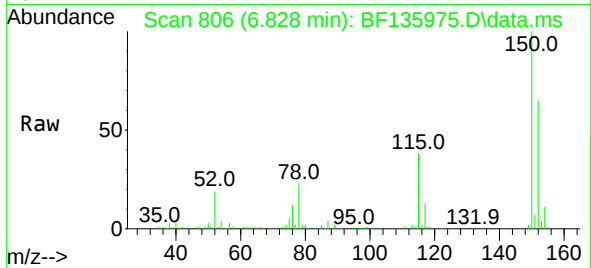
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

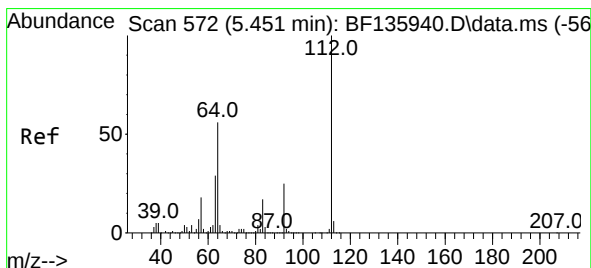
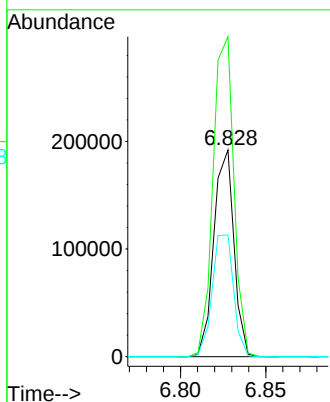
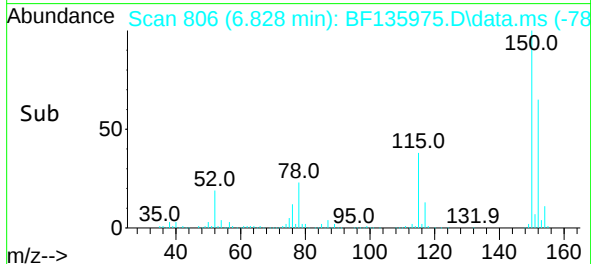
Instrument :
BNA_F
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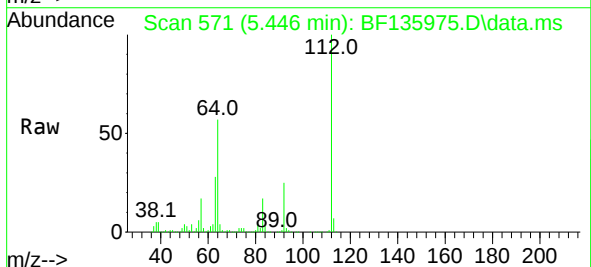
Tgt Ion:152 Resp: 15803
Ion Ratio Lower Upper
152 100
150 154.8 124.6 186.8
115 58.9 46.6 69.8

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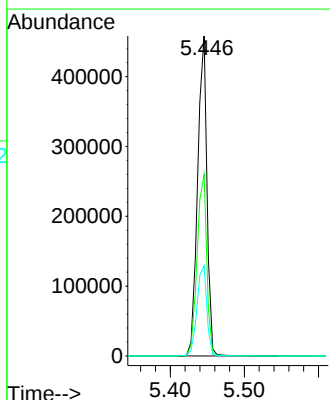
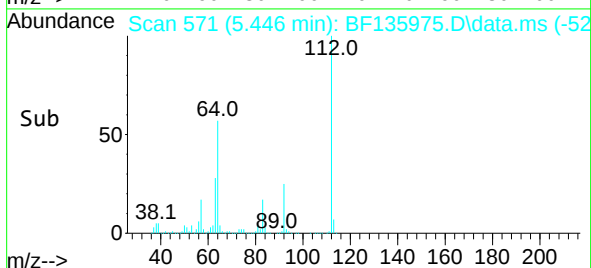
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

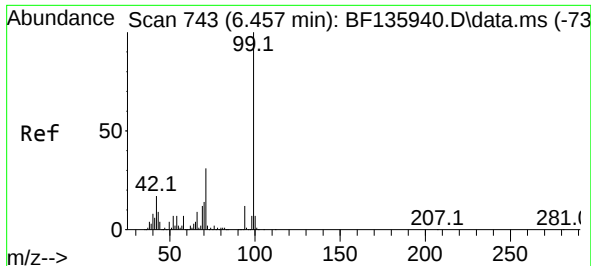


#5
2-Fluorophenol
Concen: 39.208 ng
RT: 5.446 min Scan# 571
Delta R.T. -0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28



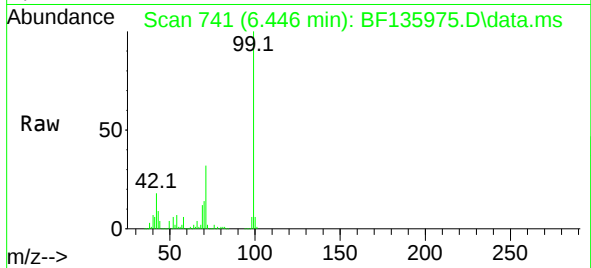
Tgt Ion:112 Resp: 401264
Ion Ratio Lower Upper
112 100
64 56.7 45.1 67.7
63 28.2 23.0 34.4





#7
Phenol-d6
Concen: 37.739 ng
RT: 6.446 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

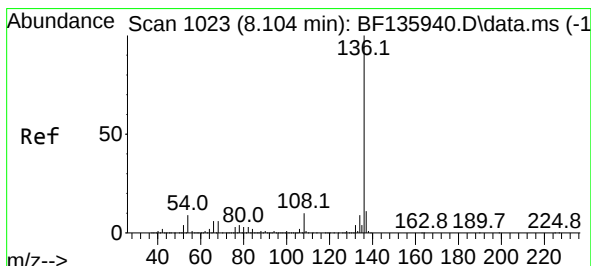
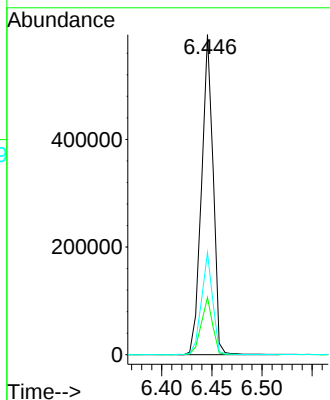
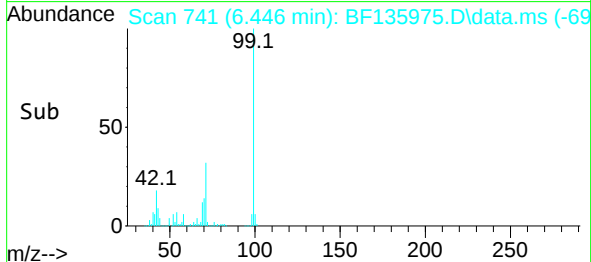
Instrument :
BNA_F
ClientSampleId :
BU-03-10232023



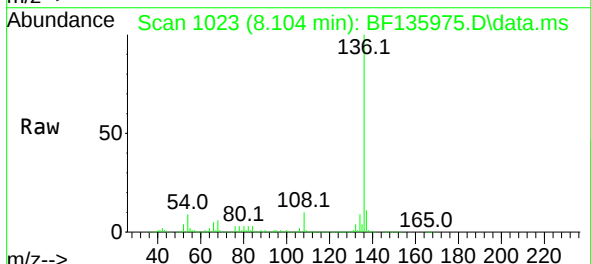
Tgt Ion: 99 Resp: 480839
Ion Ratio Lower Upper
99 100
42 17.9 13.8 20.8
71 31.9 25.1 37.7

Manual Integrations
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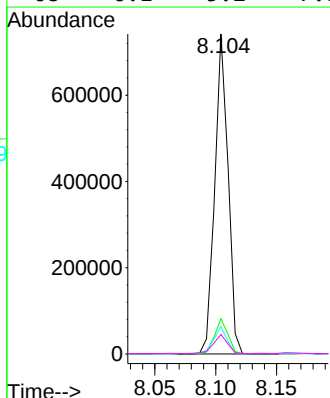
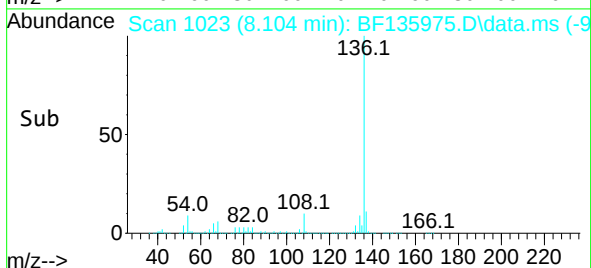
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

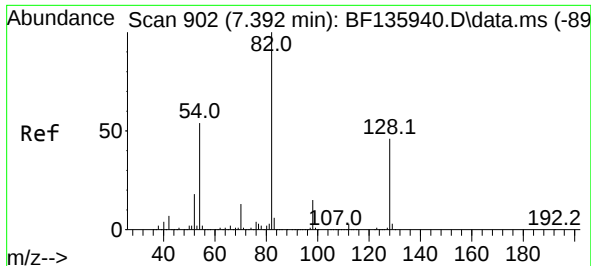


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28



Tgt Ion:136 Resp: 561642
Ion Ratio Lower Upper
136 100
137 11.0 9.0 13.6
54 8.6 7.1 10.7
68 6.1 5.2 7.8





#23

Nitrobenzene-d5

Concen: 35.567 ng

RT: 7.381 min Scan# 902

Delta R.T. -0.011 min

Lab File: BF135975.D

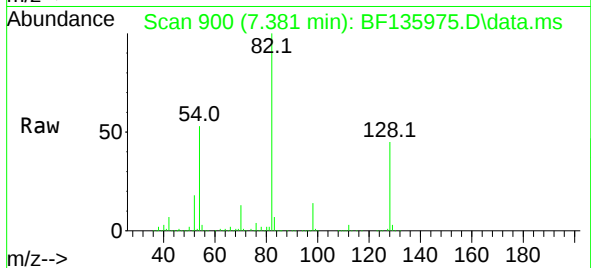
Acq: 26 Oct 2023 21:28

Instrument :

BNA_F

ClientSampleId :

BU-03-10232023



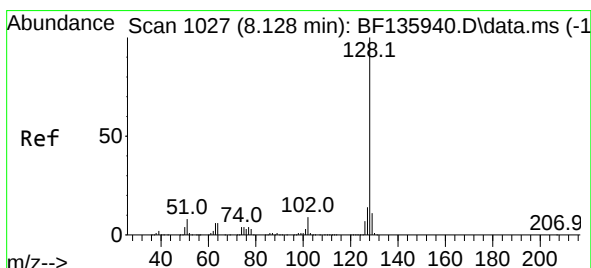
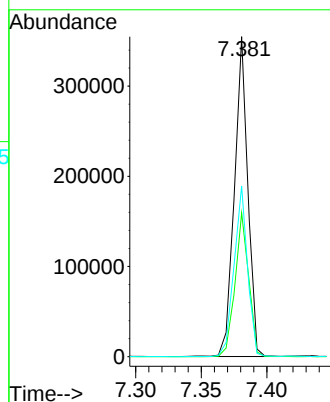
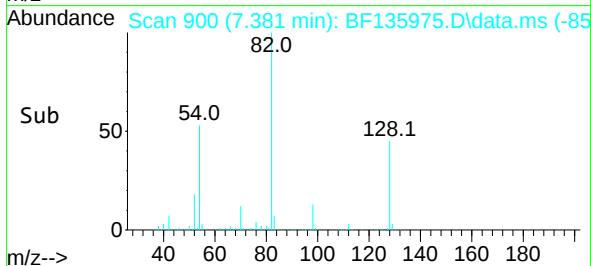
Tgt Ion:	82	Resp:	25338
Ion Ratio	Lower	Upper	
82	100		
128	44.9	36.8	55.2
54	53.4	43.4	65.0

Manual Integrations

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#31

Naphthalene

Concen: 20.124 ng

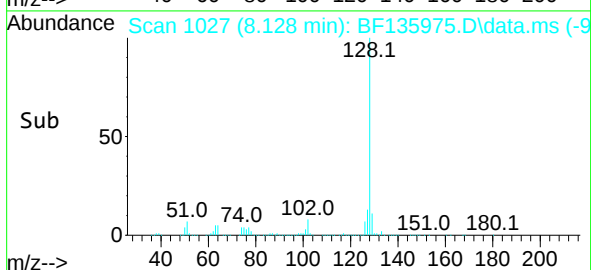
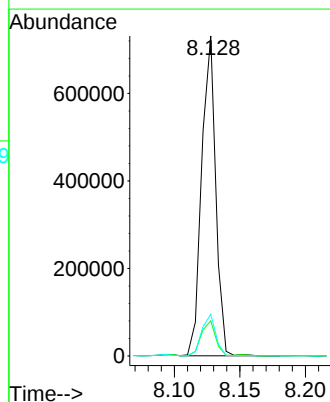
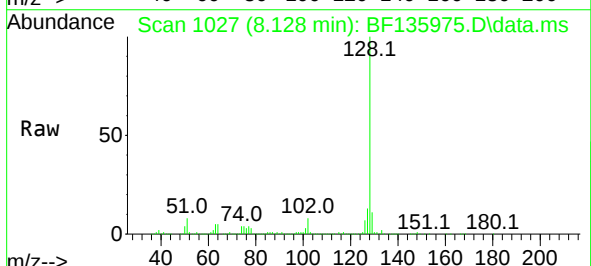
RT: 8.128 min Scan# 1027

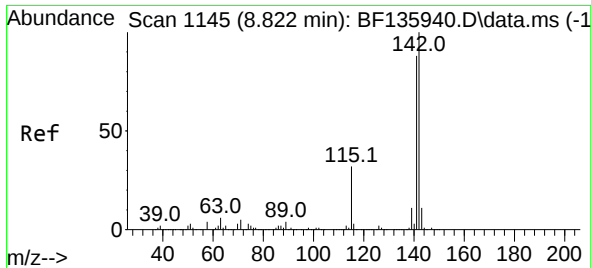
Delta R.T. 0.000 min

Lab File: BF135975.D

Acq: 26 Oct 2023 21:28

Tgt Ion:	128	Resp:	546450
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.6
127	13.0	10.9	16.3





#37

2-Methylnaphthalene

Concen: 4.216 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF135975.D

Acq: 26 Oct 2023 21:28

Instrument :

BNA_F

ClientSampleId :

BU-03-10232023

Tgt Ion:142 Resp: 7574

Ion Ratio Lower Upper

142 100

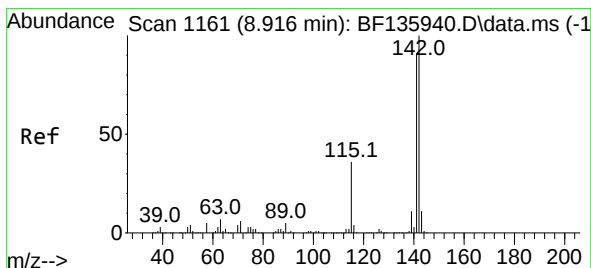
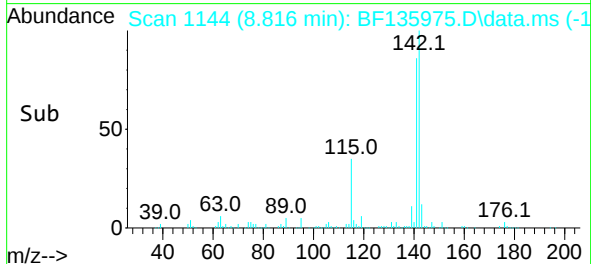
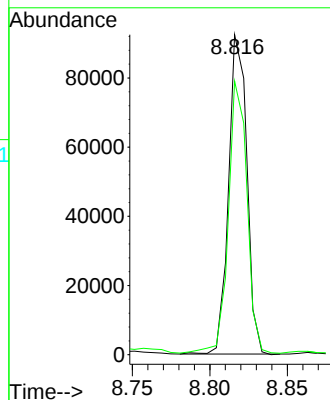
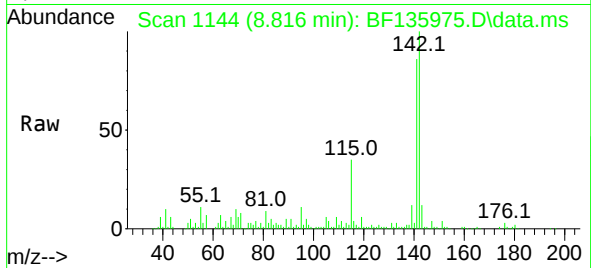
141 85.5 70.4 105.6

Manual Integrations

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Reviewed By :Yogesh Patel 10/27/2023

Supervised By :mohammad ahmed 10/27/2023



#38

1-Methylnaphthalene

Concen: 2.925 ng

RT: 8.916 min Scan# 1161

Delta R.T. 0.000 min

Lab File: BF135975.D

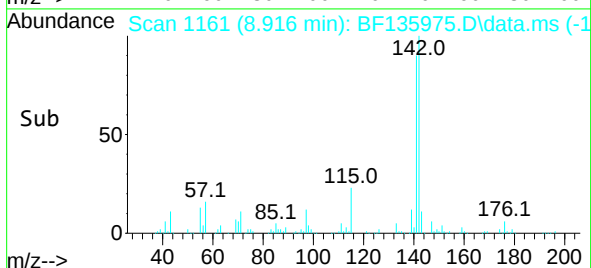
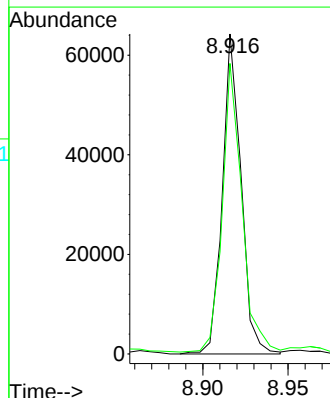
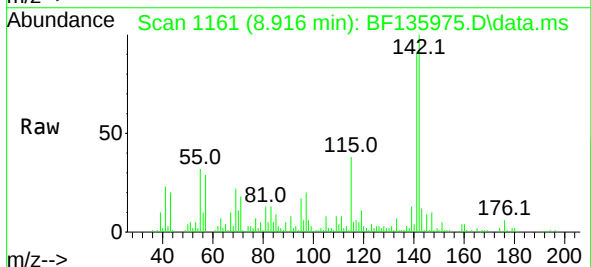
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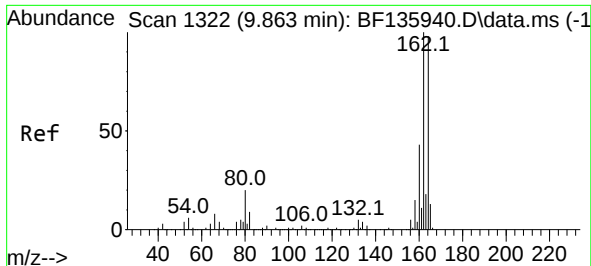
Tgt Ion:142 Resp: 49098

Ion Ratio Lower Upper

142 100

141 90.8 73.1 109.7





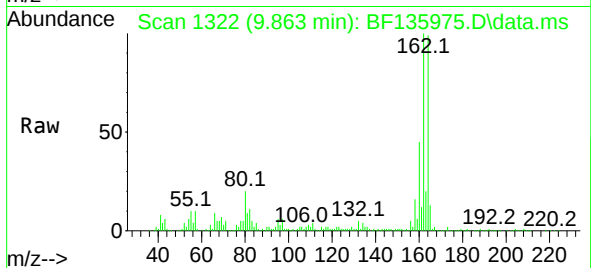
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

Instrument :

BNA_F

ClientSampleId :

BU-03-10232023

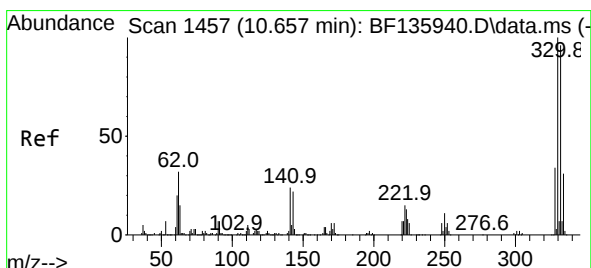
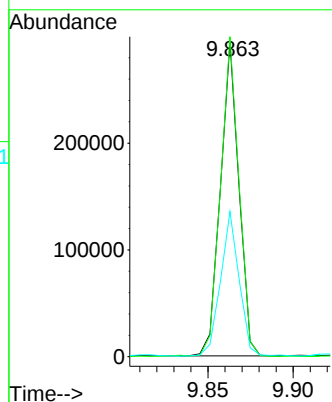
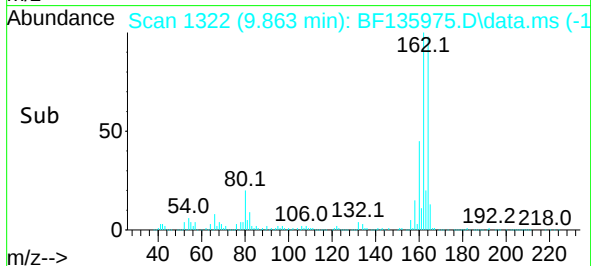


Tgt Ion:164 Resp: 221749
Ion Ratio Lower Upper
164 100
162 101.5 82.0 123.0
160 46.0 35.6 53.4

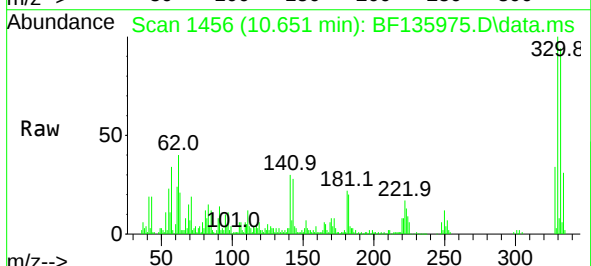
Manual Integrations

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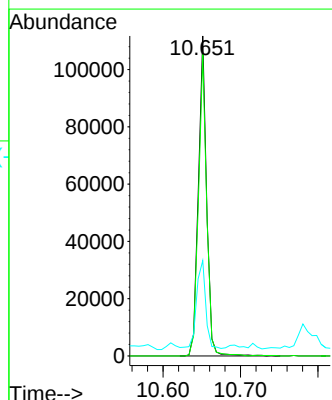
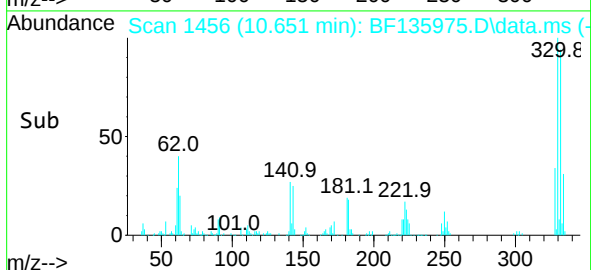
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

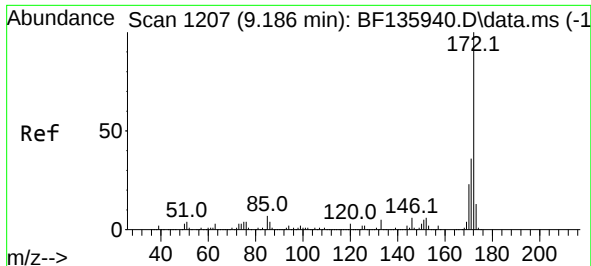


#42
2,4,6-Tribromophenol
Concen: 42.501 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28



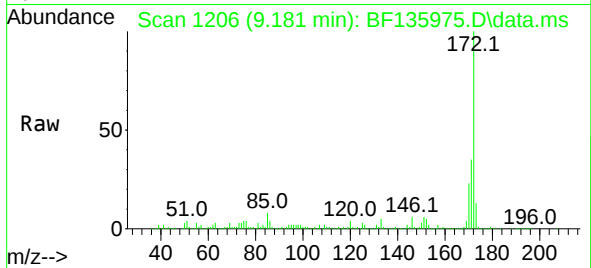
Tgt Ion:330 Resp: 82493
Ion Ratio Lower Upper
330 100
332 94.2 77.4 116.2
141 30.2 24.9 37.3





#45
2-Fluorobiphenyl
Concen: 33.238 ng
RT: 9.181 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

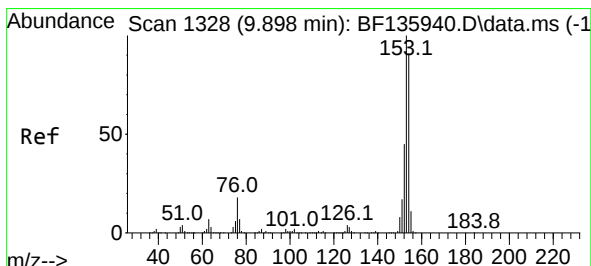
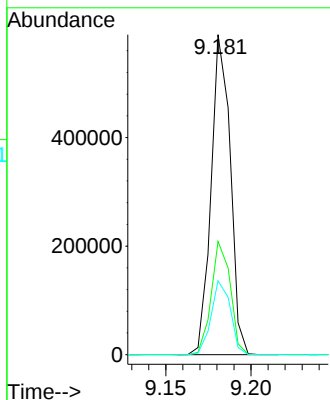
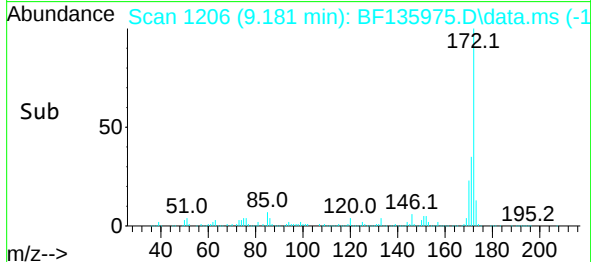
Instrument :
BNA_F
ClientSampleId :
BU-03-10232023



Tgt Ion:172 Resp: 460292
Ion Ratio Lower Upper
172 100
171 35.4 28.6 43.0
170 23.1 18.6 28.0

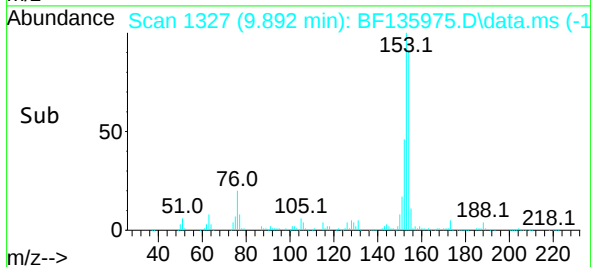
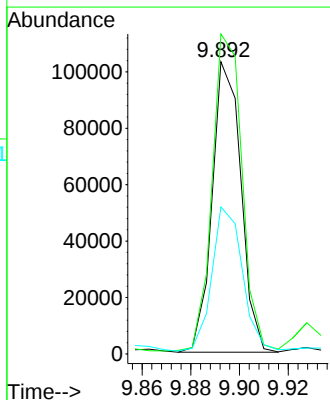
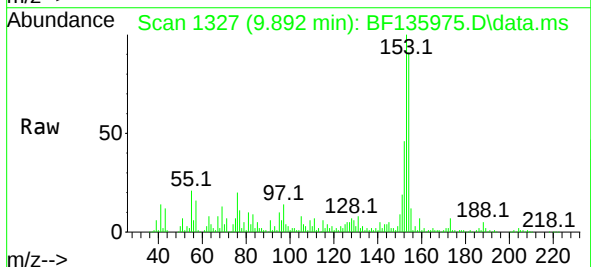
Manual Integrations
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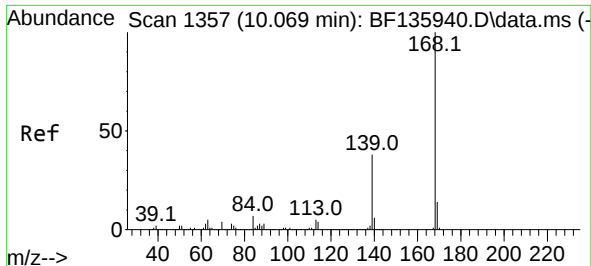
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#52
Acenaphthene
Concen: 6.726 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

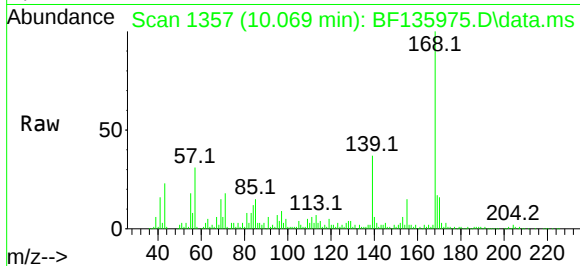
Tgt Ion:154 Resp: 84516
Ion Ratio Lower Upper
154 100
153 109.5 88.0 132.0
152 50.3 39.4 59.2





#55
Dibenzenofuran
Concen: 5.969 ng
RT: 10.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

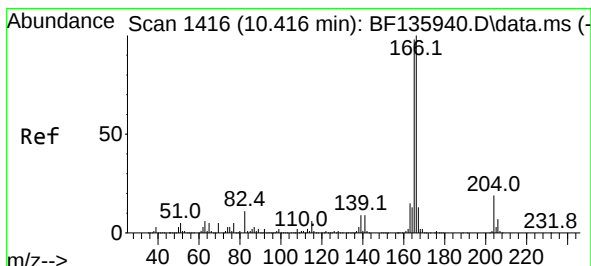
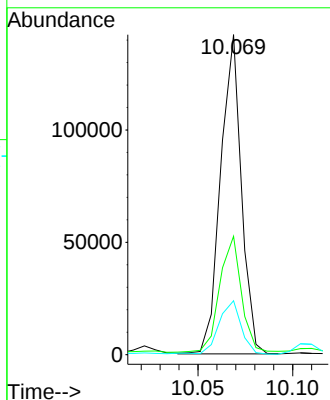
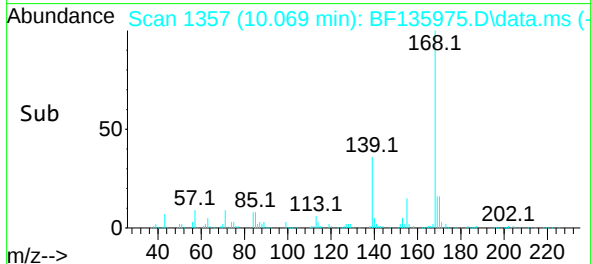
Instrument :
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ClientSampleId :
BU-03-10232023



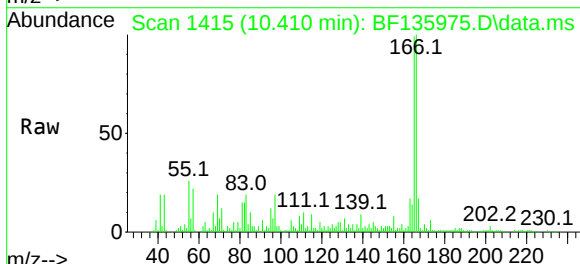
Tgt Ion:168 Resp: 108352
Ion Ratio Lower Upper
168 100
139 37.0 30.7 46.1
169 16.8 11.1 16.7

Manual Integrations
APPROVED

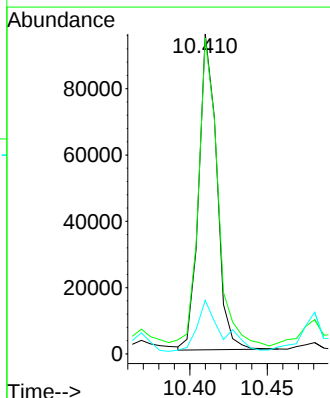
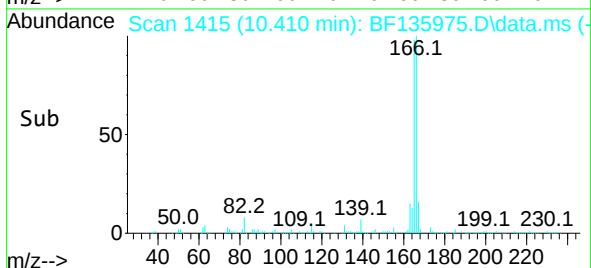
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023

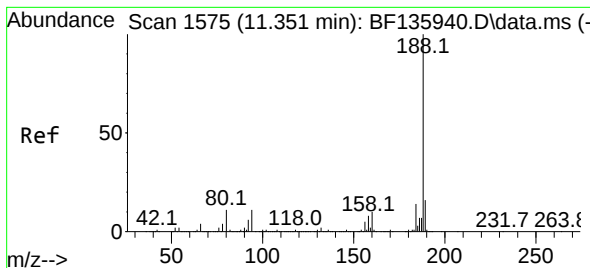


#58
Fluorene
Concen: 5.669 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28



Tgt Ion:166 Resp: 76997
Ion Ratio Lower Upper
166 100
165 98.7 78.0 117.0
167 16.8 10.6 16.0#





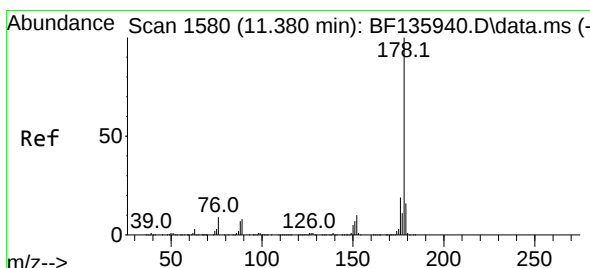
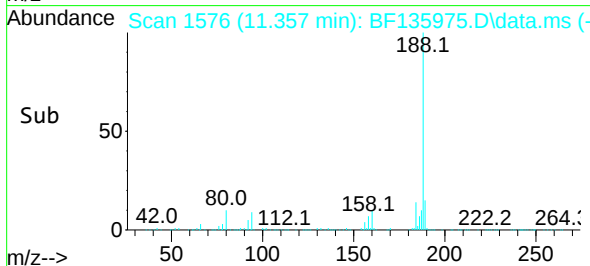
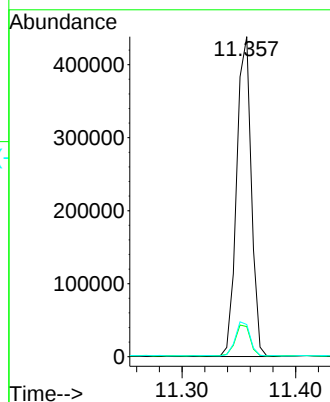
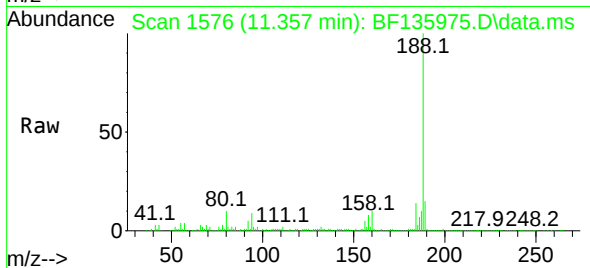
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

Instrument :
BNA_F
ClientSampleId :
BU-03-10232023

Tgt Ion:188 Resp: 39156
Ion Ratio Lower Upper
188 100
94 9.4 8.6 13.0
80 10.1 9.0 13.6

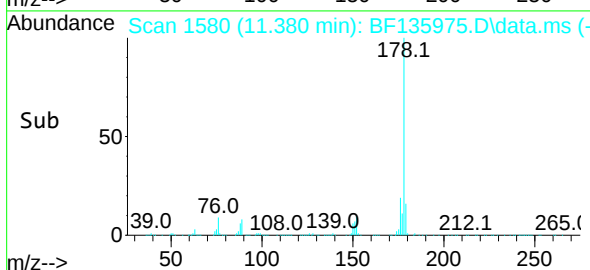
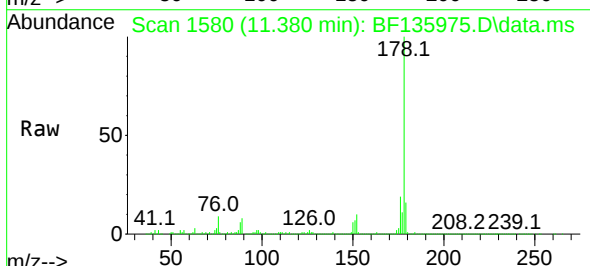
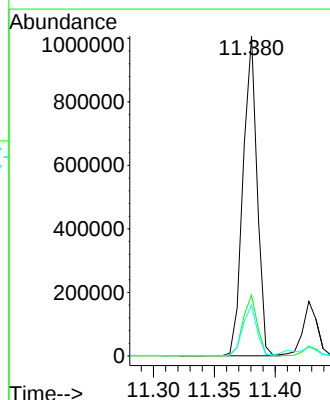
Manual Integrations
APPROVED

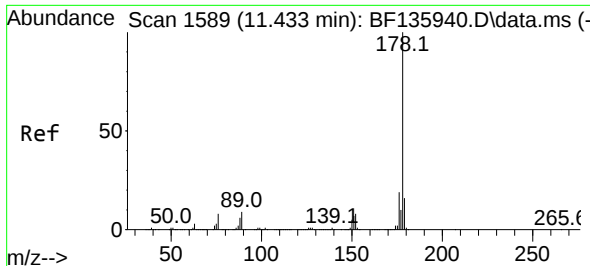
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#71
Phenanthrene
Concen: 40.937 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

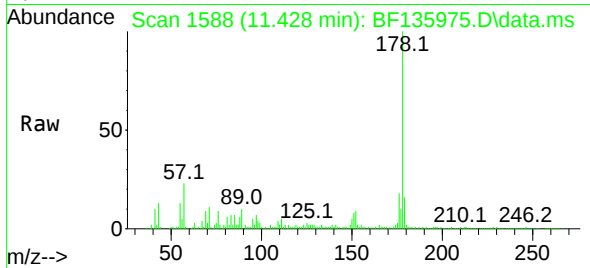
Tgt Ion:178 Resp: 810969
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.8 12.5 18.7





#72
 Anthracene
 Concen: 6.633 ng
 RT: 11.428 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135975.D
 Acq: 26 Oct 2023 21:28

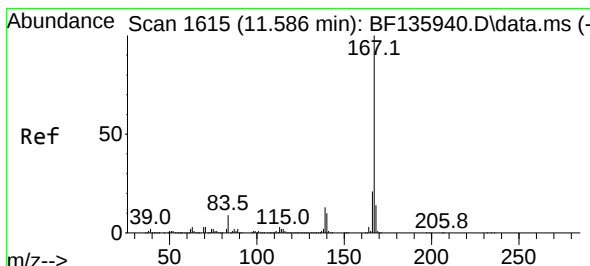
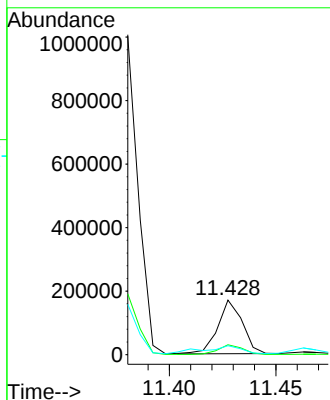
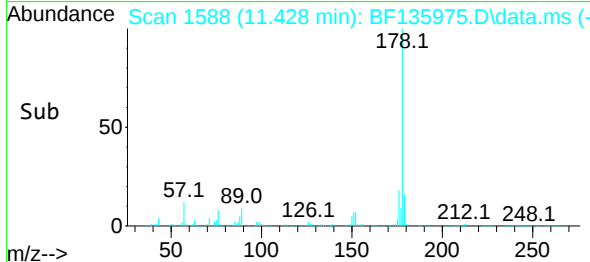
Instrument :
 BNA_F
 ClientSampleId :
 BU-03-10232023



Tgt Ion:178 Resp: 13455
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.9 22.3
 179 16.4 12.5 18.7

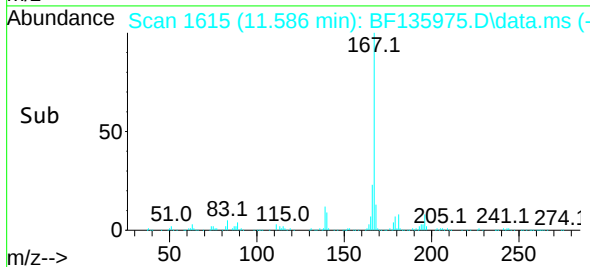
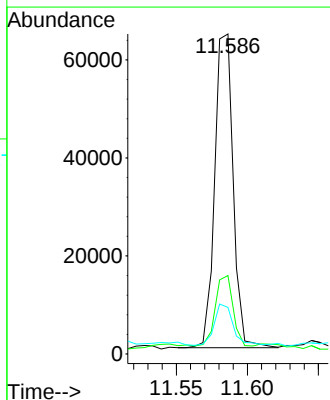
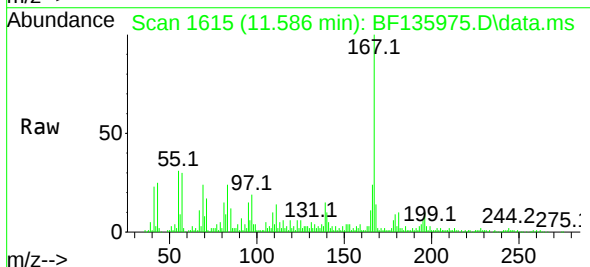
Manual Integrations
 APPROVED

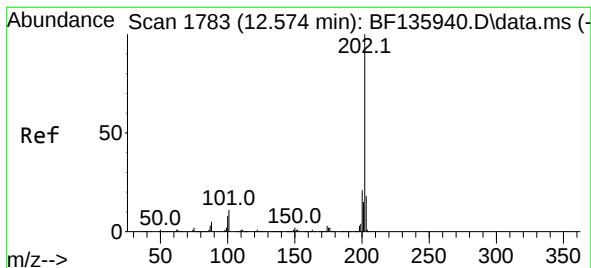
Reviewed By :Yogesh Patel 10/27/2023
 Supervised By :mohammad ahmed 10/27/2023



#73
 Carbazole
 Concen: 3.192 ng
 RT: 11.586 min Scan# 1615
 Delta R.T. 0.000 min
 Lab File: BF135975.D
 Acq: 26 Oct 2023 21:28

Tgt Ion:167 Resp: 57758
 Ion Ratio Lower Upper
 167 100
 166 24.5 17.0 25.6
 139 14.5 10.4 15.6





#75

Fluoranthene

Concen: 50.163 ng

RT: 12.580 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF135975.D

Acq: 26 Oct 2023 21:28

Instrument :

BNA_F

ClientSampleId :

BU-03-10232023

Tgt Ion:202 Resp: 104545

Ion Ratio Lower Upper

202 100

101 11.3 0.0 30.6

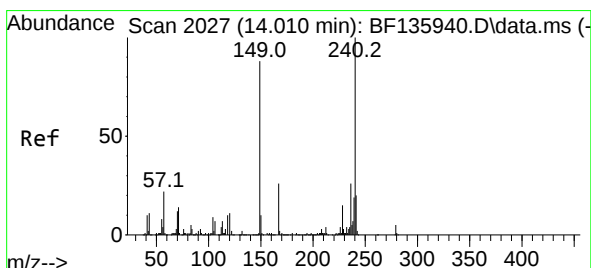
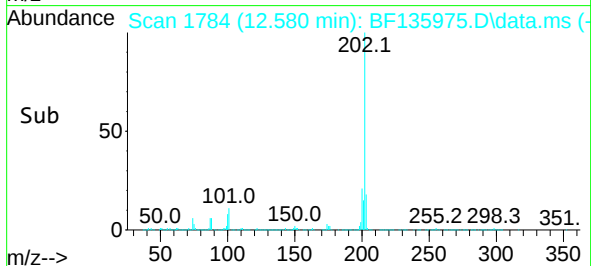
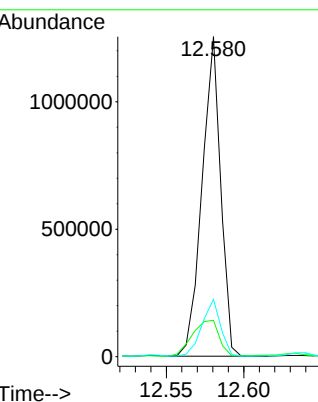
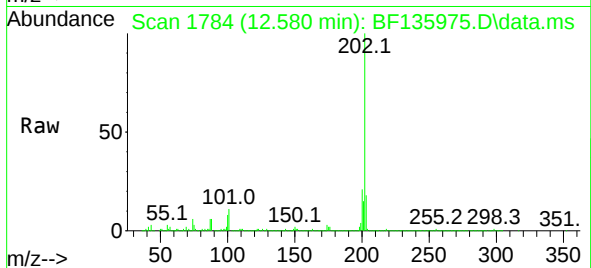
203 18.0 0.0 37.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/27/2023

Supervised By :mohammad ahmed 10/27/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2027

Delta R.T. 0.000 min

Lab File: BF135975.D

Acq: 26 Oct 2023 21:28

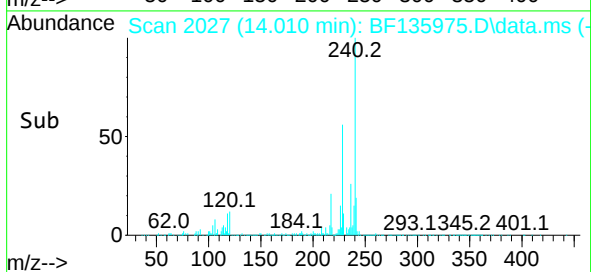
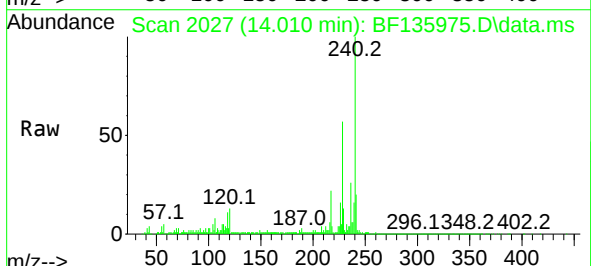
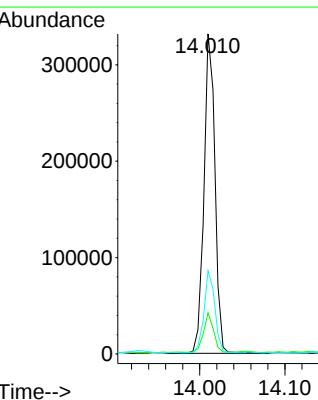
Tgt Ion:240 Resp: 299790

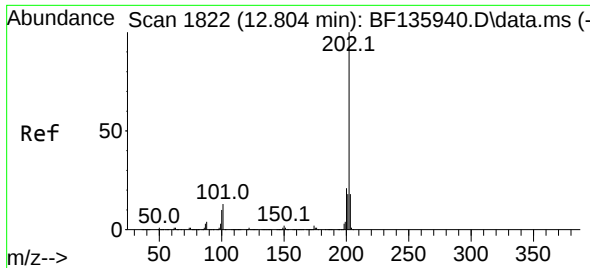
Ion Ratio Lower Upper

240 100

120 12.8 8.6 13.0

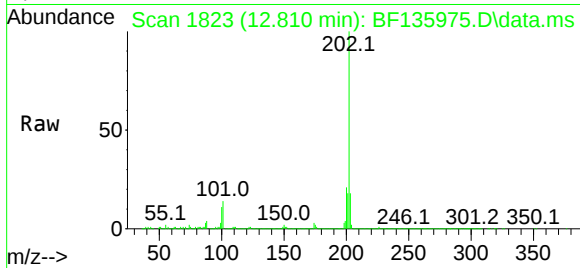
236 26.0 20.6 30.8





#78
Pyrene
Concen: 42.846 ng
RT: 12.810 min Scan# 1822
Delta R.T. 0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

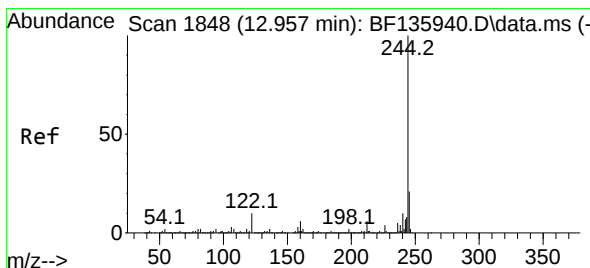
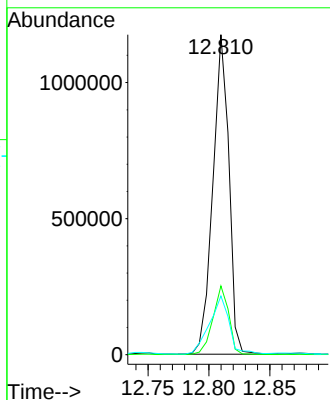
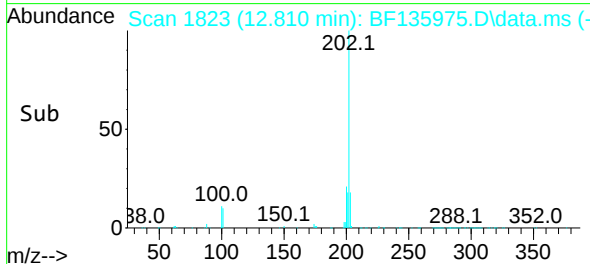
Instrument :
BNA_F
ClientSampleId :
BU-03-10232023



Tgt Ion:202 Resp: 107850
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.6
203 18.4 14.5 21.7

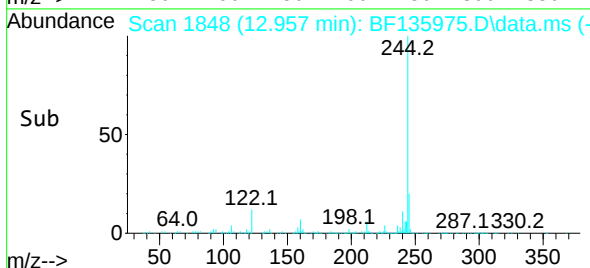
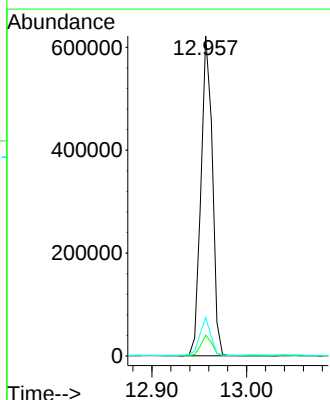
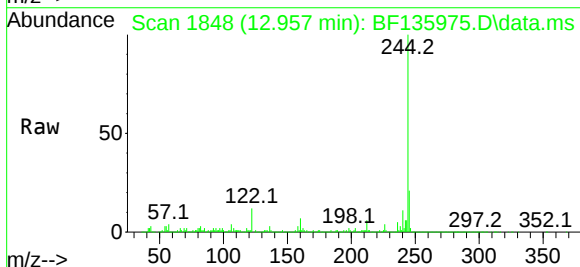
Manual Integrations
APPROVED

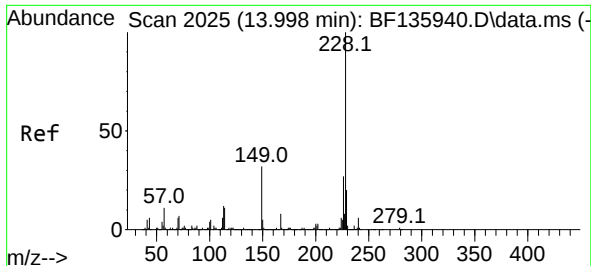
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#79
Terphenyl-d14
Concen: 28.886 ng
RT: 12.957 min Scan# 1848
Delta R.T. 0.000 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

Tgt Ion:244 Resp: 518308
Ion Ratio Lower Upper
244 100
212 6.5 5.0 7.6
122 12.0 8.0 12.0#





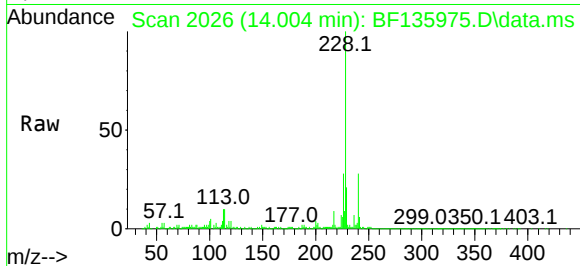
#81
Benzo(a)anthracene
Concen: 23.855 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

Instrument :

BNF_F

ClientSampleId :

BU-03-10232023



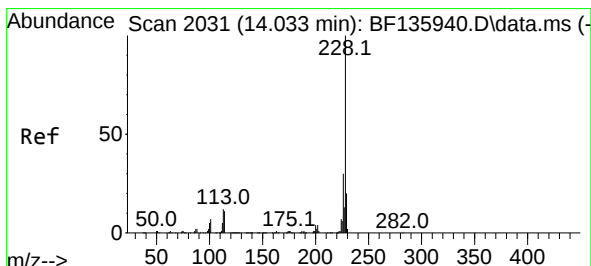
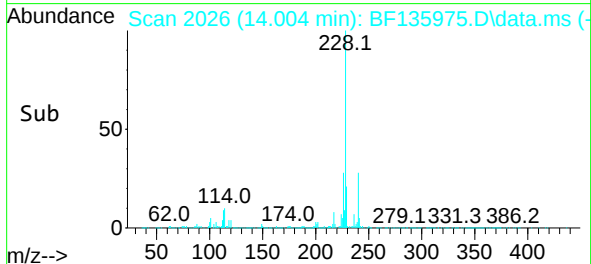
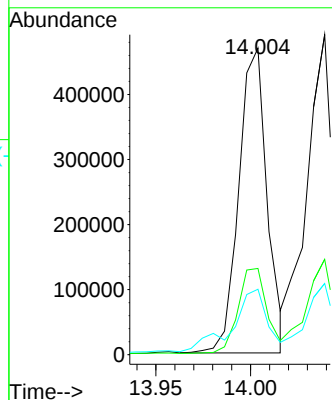
Tgt Ion:228 Resp: 48626
Ion Ratio Lower Upper
228 100
226 28.1 21.8 32.6
229 21.3 16.2 24.4

Manual Integrations

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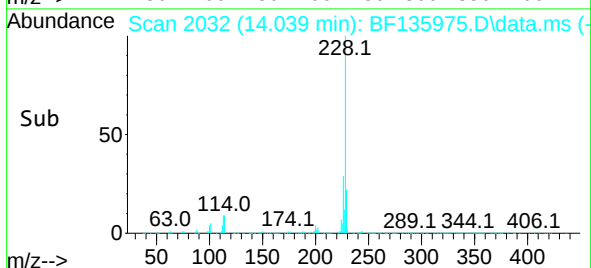
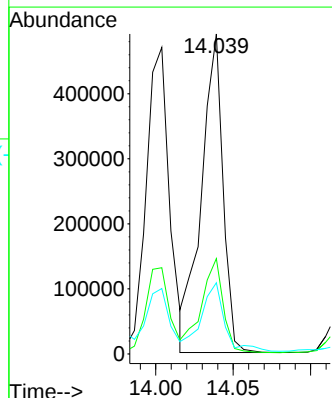
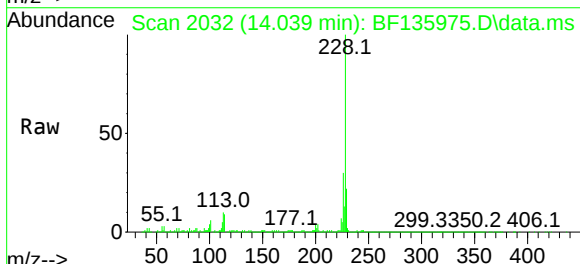
Reviewed By :Yogesh Patel 10/27/2023

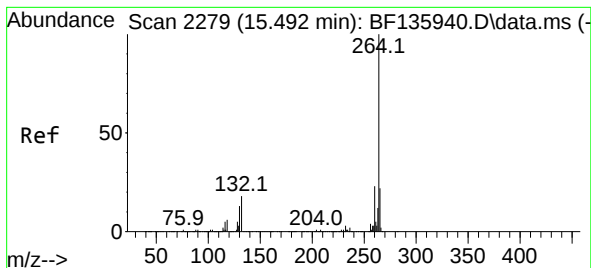
Supervised By :mohammad ahmed 10/27/2023



#83
Chrysene
Concen: 23.979 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

Tgt Ion:228 Resp: 476064
Ion Ratio Lower Upper
228 100
226 29.8 23.9 35.9
229 22.3 16.2 24.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135975.D

Acq: 26 Oct 2023 21:28

Instrument :

BNA_F

ClientSampleId :

BU-03-10232023

Tgt Ion:264 Resp: 22926

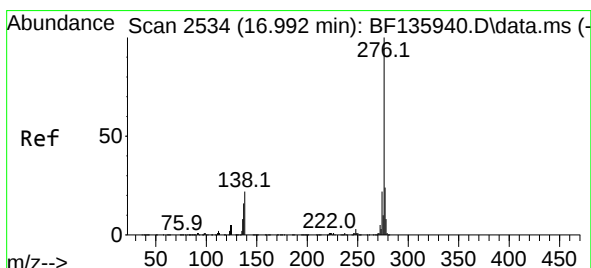
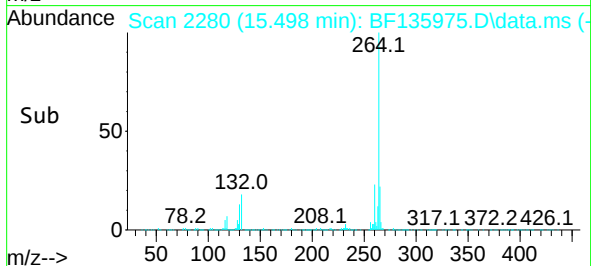
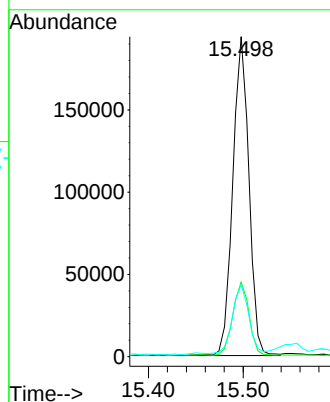
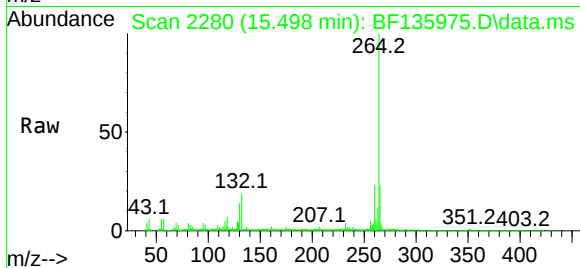
Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	22.6	17.3	25.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/27/2023

Supervised By :mohammad ahmed 10/27/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 15.431 ng

RT: 17.004 min Scan# 2536

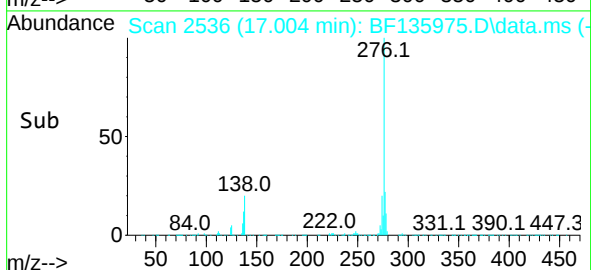
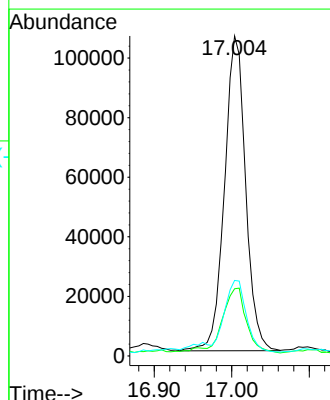
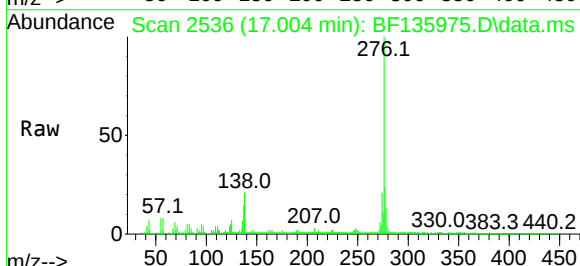
Delta R.T. 0.012 min

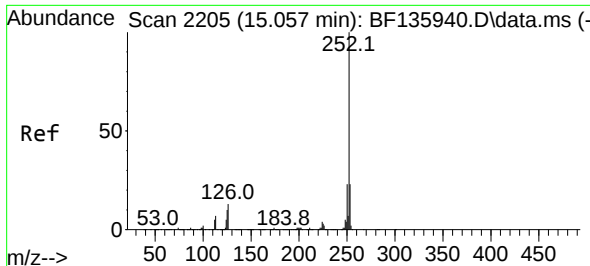
Lab File: BF135975.D

Acq: 26 Oct 2023 21:28

Tgt Ion:276 Resp: 200600

Ion	Ratio	Lower	Upper
276	100		
138	23.9	21.8	32.6
277	23.2	20.0	30.0





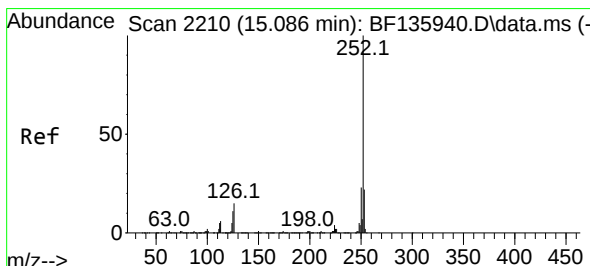
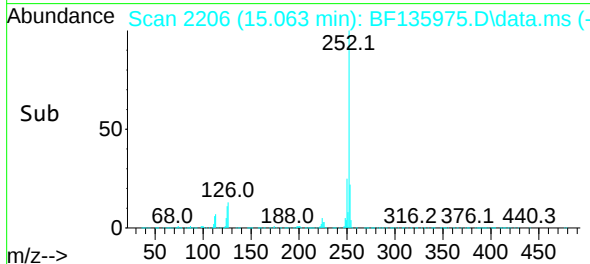
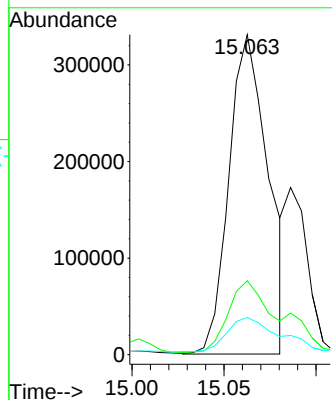
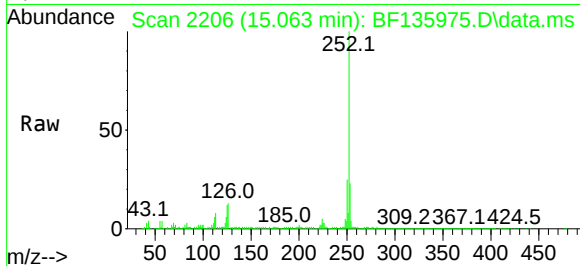
#88
Benzo(b)fluoranthene
Concen: 35.991 ng m
RT: 15.063 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

Instrument :
BNA_F
ClientSampleId :
BU-03-10232023

Tgt Ion:252 Resp: 49105
Ion Ratio Lower Upper
252 100
253 23.1 18.0 27.0
125 11.7 8.2 12.4

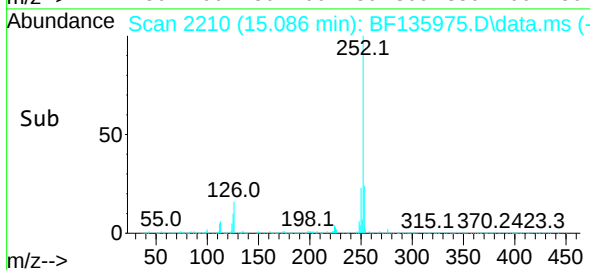
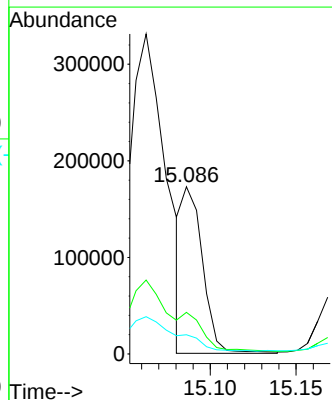
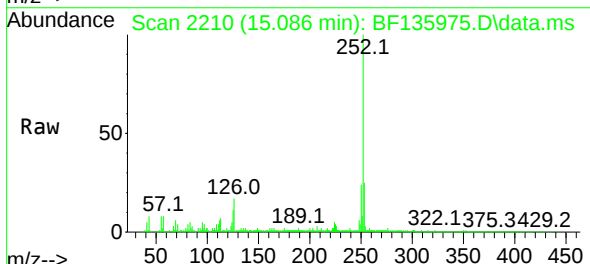
Manual Integrations
APPROVED

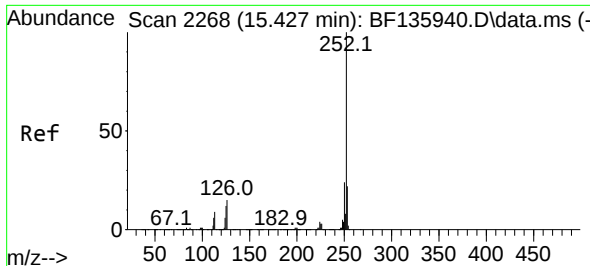
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#89
Benzo(k)fluoranthene
Concen: 10.723 ng m
RT: 15.086 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

Tgt Ion:252 Resp: 143683
Ion Ratio Lower Upper
252 100
253 24.9 17.7 26.5
125 11.5 8.5 12.7





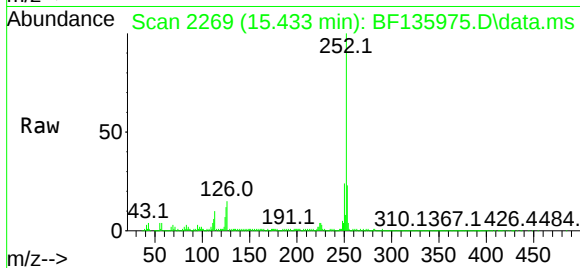
#90
Benzo(a)pyrene
Concen: 27.007 ng
RT: 15.433 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

Instrument :

BNA_F

ClientSampleId :

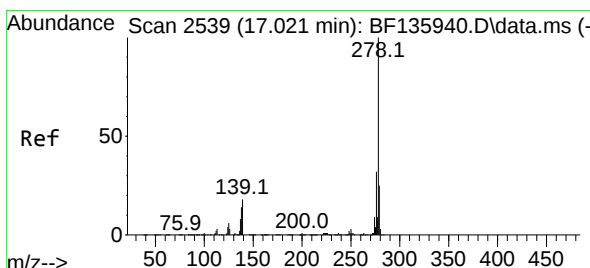
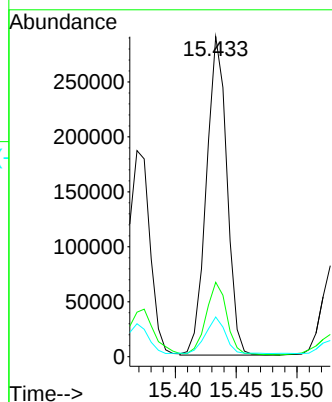
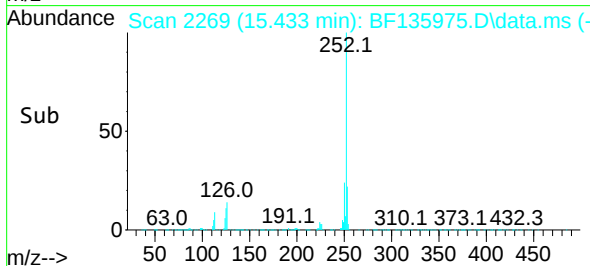
BU-03-10232023



Tgt Ion:252 Resp: 339609
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.2
125 12.4 9.6 14.4

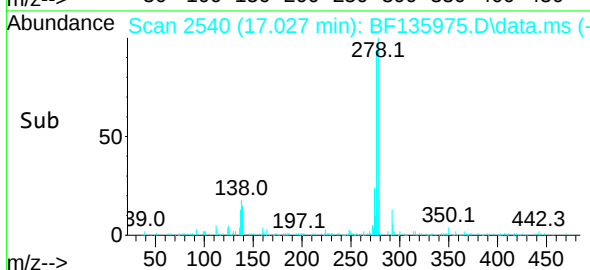
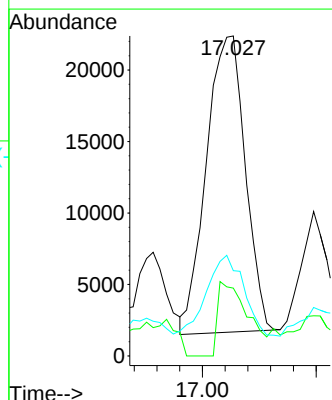
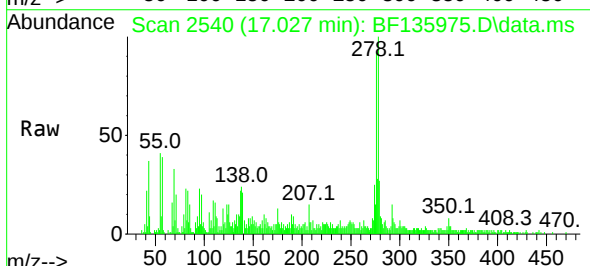
Manual Integrations
APPROVED

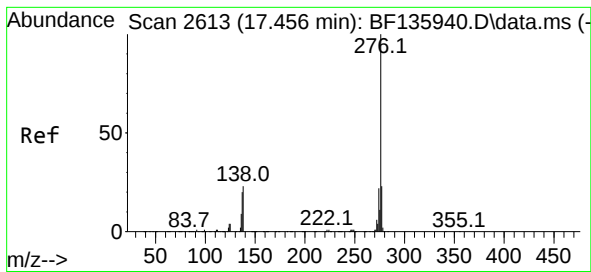
Reviewed By :Yogesh Patel 10/27/2023
Supervised By :mohammad ahmed 10/27/2023



#91
Dibenzo(a,h)anthracene
Concen: 4.440 ng
RT: 17.027 min Scan# 2540
Delta R.T. 0.006 min
Lab File: BF135975.D
Acq: 26 Oct 2023 21:28

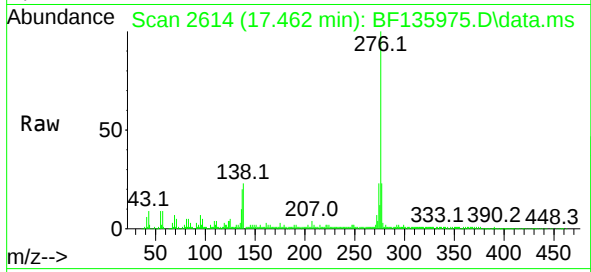
Tgt Ion:278 Resp: 49366
Ion Ratio Lower Upper
278 100
139 21.2 14.0 21.0#
279 26.7 19.7 29.5





#92
 Benzo(g,h,i)perylene
 Concen: 17.926 ng
 RT: 17.462 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: BF135975.D
 Acq: 26 Oct 2023 21:28

Instrument :
 BNA_F
 ClientSampleId :
 BU-03-10232023



Tgt Ion: 276 Resp: 19434
 Ion Ratio Lower Upper
 276 100
 277 23.4 18.6 28.0
 138 23.1 18.4 27.6

Manual Integrations
 APPROVED

Reviewed By : Yogesh Patel 10/27/2023
 Supervised By : mohammad ahmed 10/27/2023

