

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
 Data File : BF135739.D
 Acq On : 12 Oct 2023 17:31
 Operator : CG\JU
 Sample : 04657-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 U-1(0-2IN)

Quant Time: Oct 13 00:56:44 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 02:43:17 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/13/2023
 Supervised By :mohammad ahmed 10/13/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	89054	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	333139	20.000	ng	0.00
39) Acenaphthene-d10	9.774	164	154352	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	248572	20.000	ng	0.00
76) Chrysene-d12	13.933	240	164093	20.000	ng	0.00
86) Perylene-d12	15.409	264	145791	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	495226	90.446	ng	0.00
7) Phenol-d6	6.392	99	622343	89.388	ng	0.00
23) Nitrobenzene-d5	7.304	82	373033	60.835	ng	0.00
42) 2,4,6-Tribromophenol	10.574	330	117174	76.390	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	586560	57.334	ng	0.00
79) Terphenyl-d14	12.863	244	390027	36.846	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.039	128	53779	3.323	ng	100
37) 2-Methylnaphthalene	8.733	142	25173	2.314	ng	96
38) 1-Methylnaphthalene	8.833	142	25813	2.534	ng	95
49) Acenaphthylene	9.639	152	52047	3.639	ng	98
52) Acenaphthene	9.810	154	17972	2.127	ng	93
55) Dibenzofuran	9.986	168	50230	3.896	ng	98
58) Fluorene	10.327	166	88082	8.886	ng	99
71) Phenanthrene	11.298	178	609014	51.803	ng	100
72) Anthracene	11.345	178	137299	11.362	ng	99
73) Carbazole	11.516	167	47425	4.311	ng	99
75) Fluoranthene	12.498	202	623708	50.915	ng	98
78) Pyrene	12.727	202	566273	36.246	ng	100
81) Benzo(a)anthracene	13.921	228	288366	27.215	ng	98
83) Chrysene	13.962	228	243842	23.146	ng	97
87) Indeno(1,2,3-cd)pyrene	16.903	276	76997	8.055	ng	97
88) Benzo(b)fluoranthene	14.980	252	224240m	28.413	ng	
89) Benzo(k)fluoranthene	15.004	252	75196m	9.645	ng	
90) Benzo(a)pyrene	15.345	252	160796	21.365	ng	97
91) Dibenzo(a,h)anthracene	16.903	278	22172m	2.835	ng	
92) Benzo(g,h,i)perylene	17.356	276	68374	8.371	ng	100

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

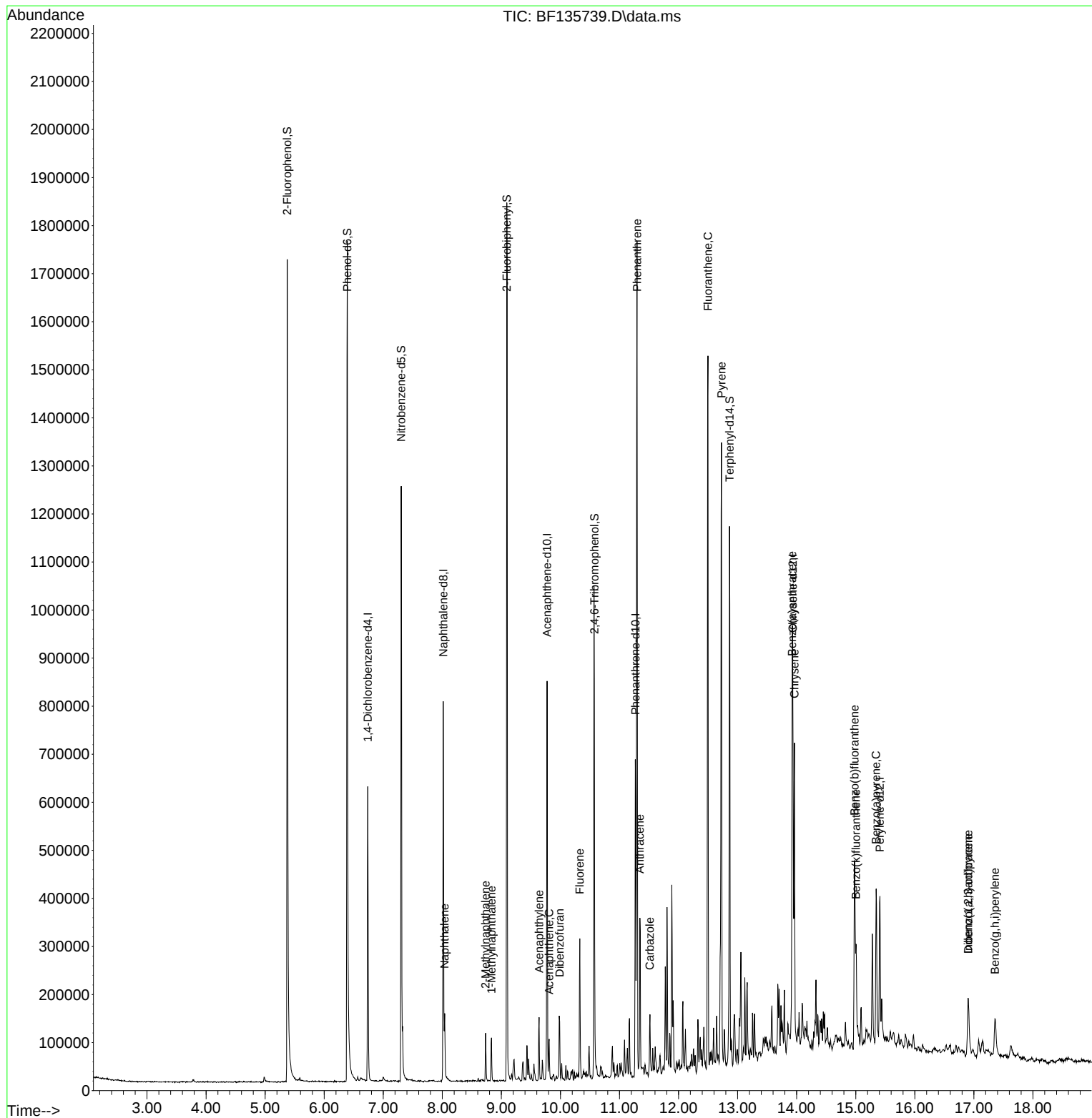
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
Data File : BF135739.D
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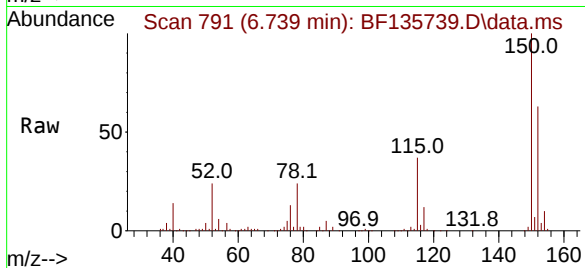
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

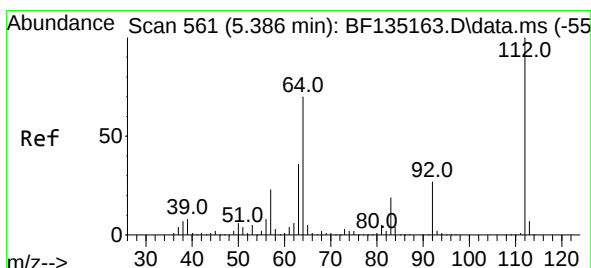
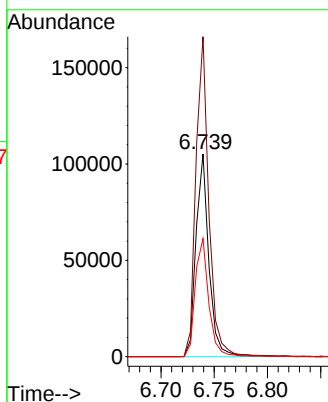
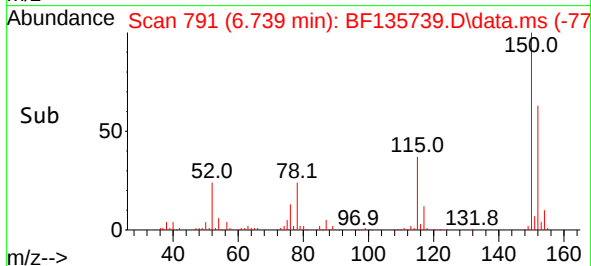
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



Tgt Ion:152 Resp: 89054
Ion Ratio Lower Upper
152 100
150 157.8 127.8 191.6
115 58.2 49.8 74.8

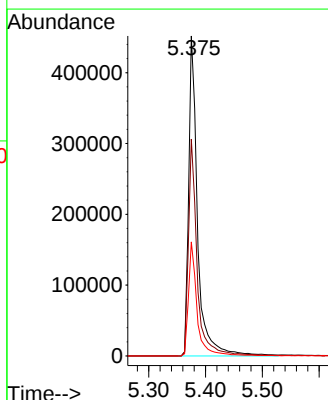
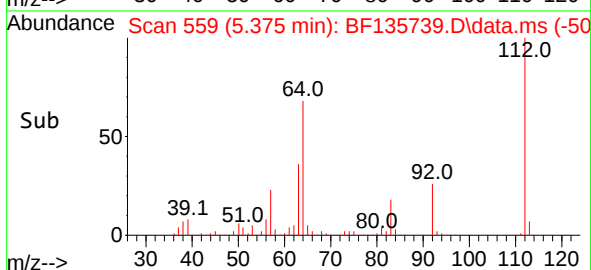
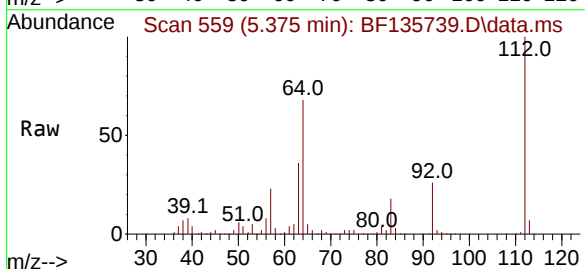
Manual Integrations
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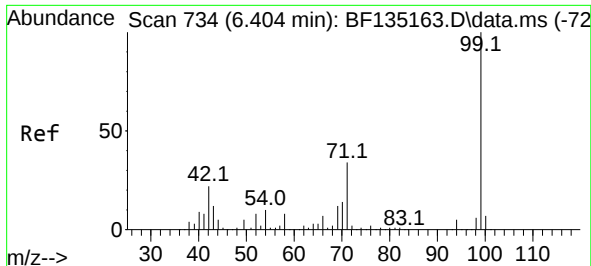
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#5
2-Fluorophenol
Concen: 90.446 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

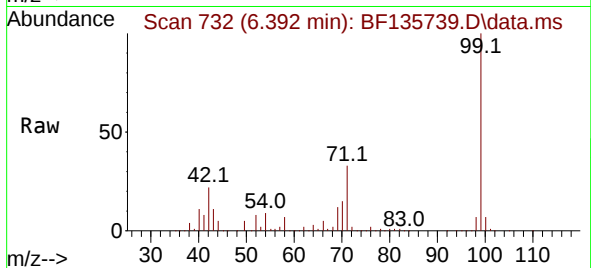
Tgt Ion:112 Resp: 495226
Ion Ratio Lower Upper
112 100
64 67.8 55.9 83.9
63 35.6 29.0 43.6





#7
Phenol-d6
Concen: 89.388 ng
RT: 6.392 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

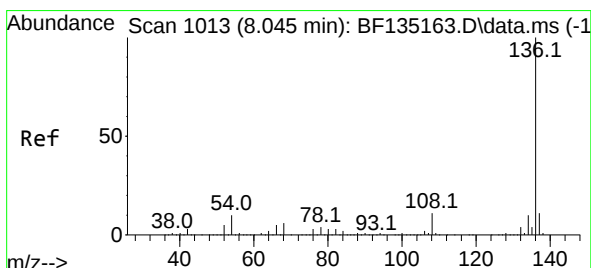
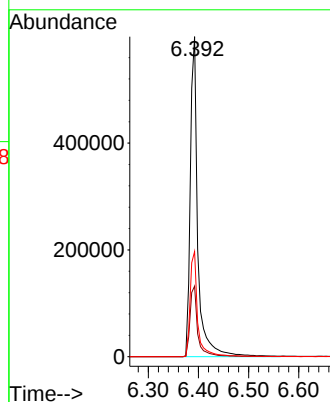
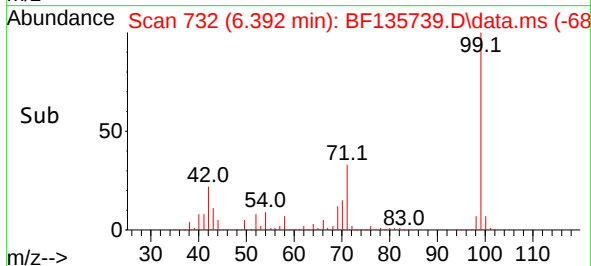
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



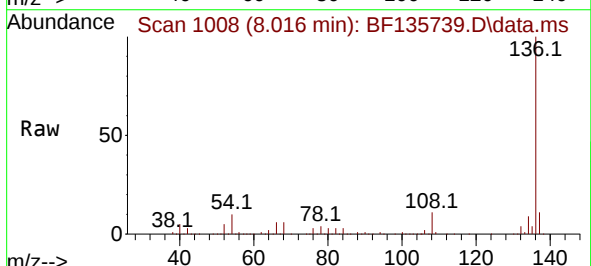
Tgt Ion: 99 Resp: 62234
Ion Ratio Lower Upper
99 100
42 22.1 17.9 26.9
71 32.8 27.0 40.6

Manual Integrations
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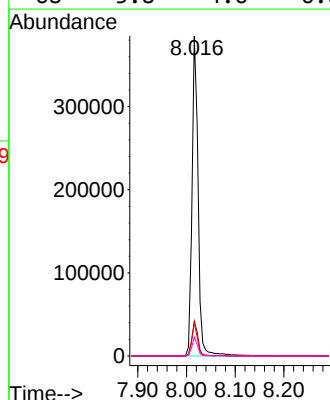
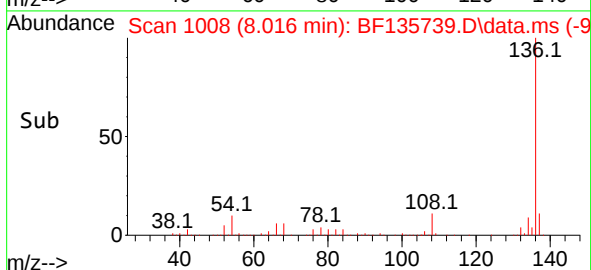
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

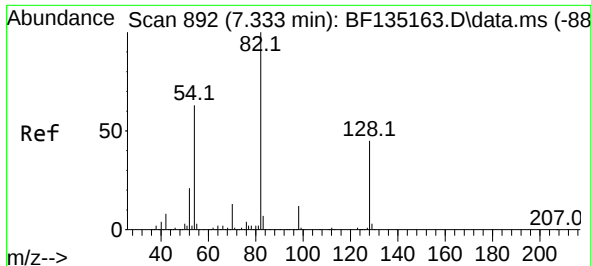


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31



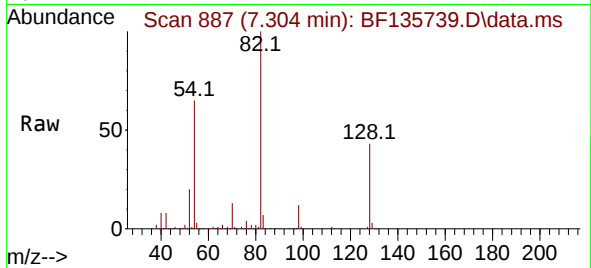
Tgt Ion:136 Resp: 333139
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 10.3 7.7 11.5
68 5.8 4.6 6.8





#23
Nitrobenzene-d5
Concen: 60.835 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

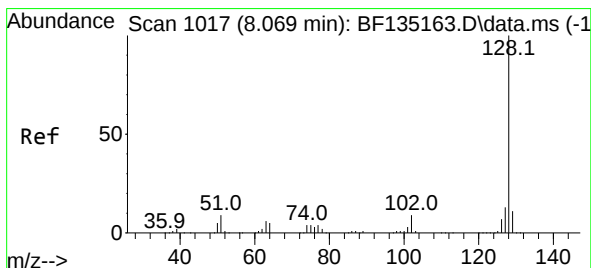
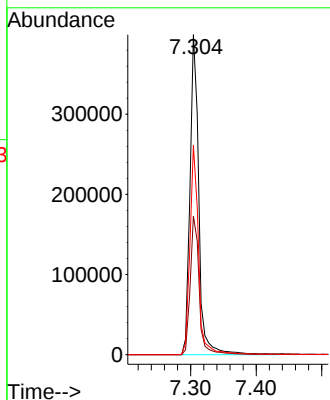
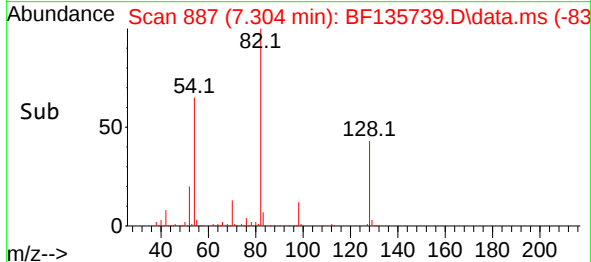
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



Tgt Ion: 82 Resp: 37303
Ion Ratio Lower Upper
82 100
128 43.4 35.8 53.6
54 65.4 50.6 76.0

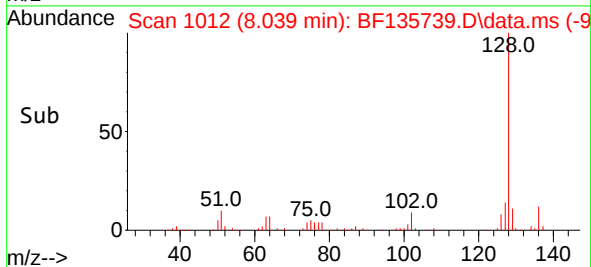
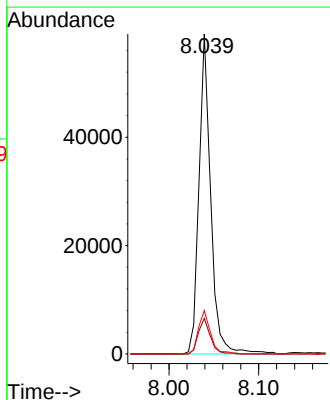
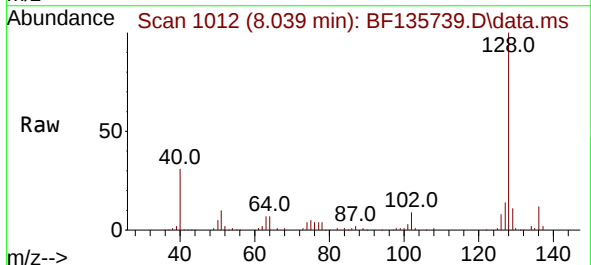
Manual Integrations
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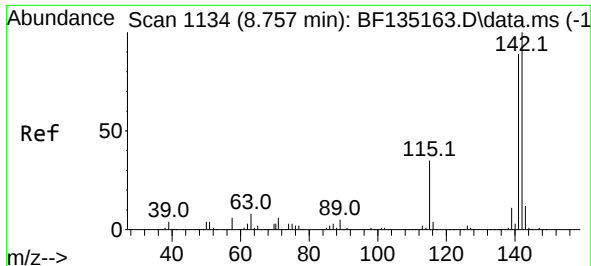
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#31
Naphthalene
Concen: 3.323 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

Tgt Ion:128 Resp: 53779
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.6 10.7 16.1





#37

2-Methylnaphthalene

Concen: 2.314 ng

RT: 8.733 min Scan# 1130

Delta R.T. -0.000 min

Lab File: BF135739.D

Acq: 12 Oct 2023 17:31

Instrument :

BNA_F

ClientSampleId :

U-1(0-2IN)

Tgt Ion:142 Resp: 2517

Ion Ratio Lower Upper

142 100

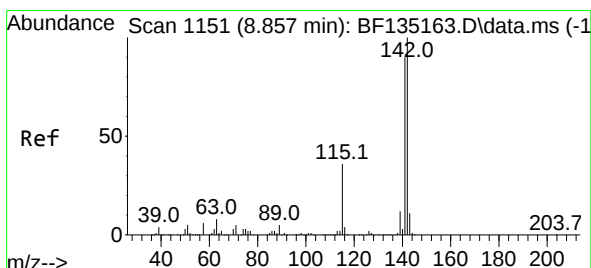
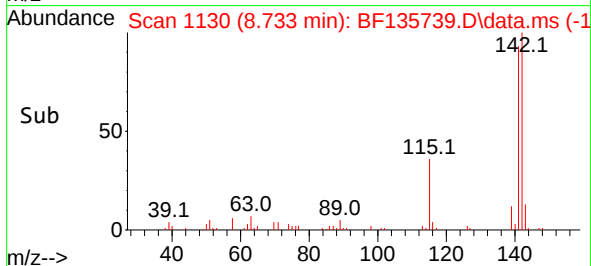
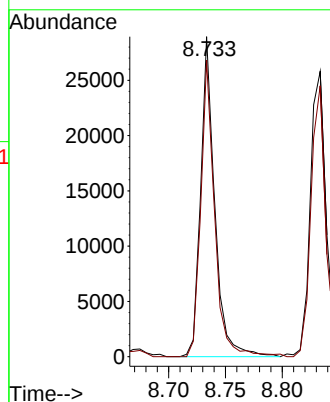
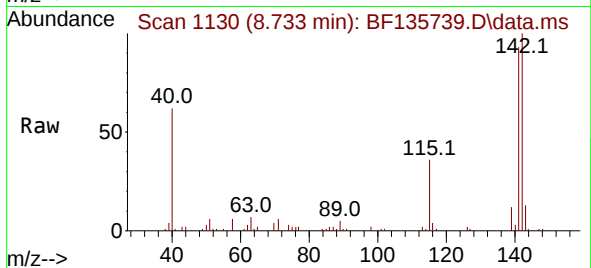
141 92.6 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/13/2023

Supervised By :mohammad ahmed 10/13/2023



#38

1-Methylnaphthalene

Concen: 2.534 ng

RT: 8.833 min Scan# 1147

Delta R.T. -0.000 min

Lab File: BF135739.D

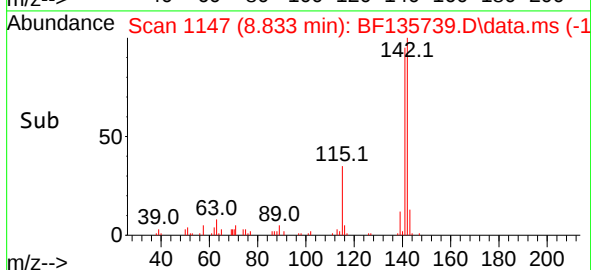
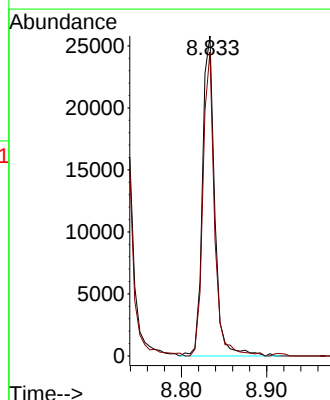
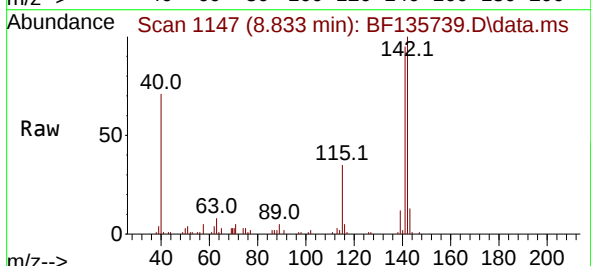
Acq: 12 Oct 2023 17:31

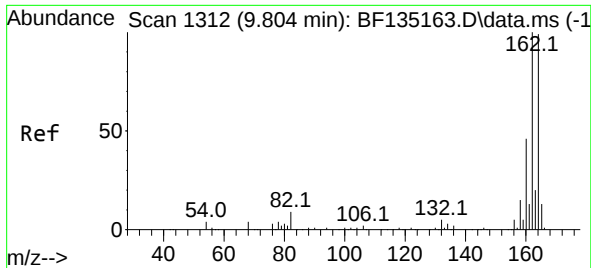
Tgt Ion:142 Resp: 25813

Ion Ratio Lower Upper

142 100

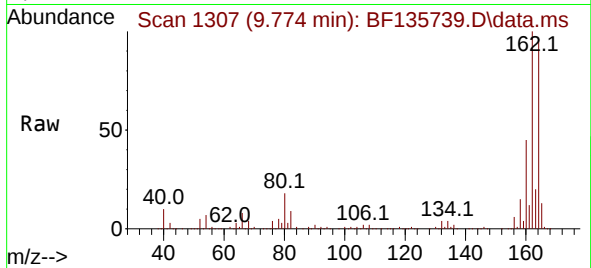
141 95.0 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.774 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

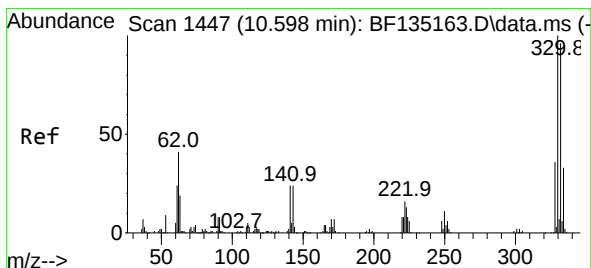
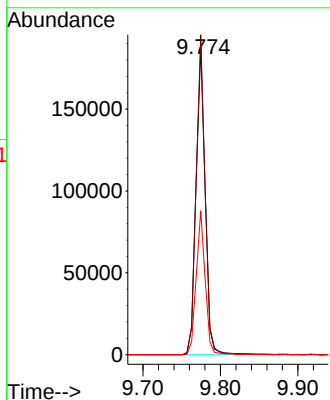
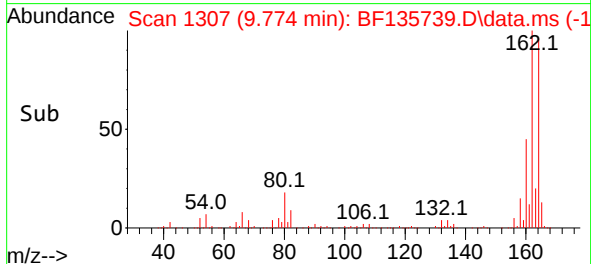
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



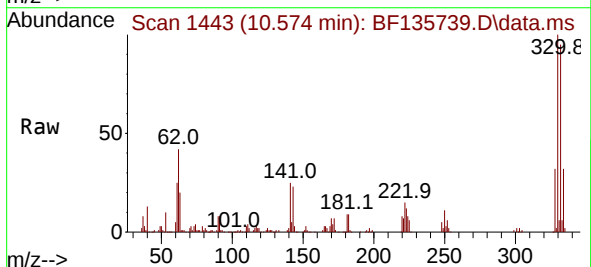
Tgt Ion:164 Resp: 154352
Ion Ratio Lower Upper
164 100
162 104.1 81.0 121.4
160 46.9 37.0 55.4

Manual Integrations
APPROVED

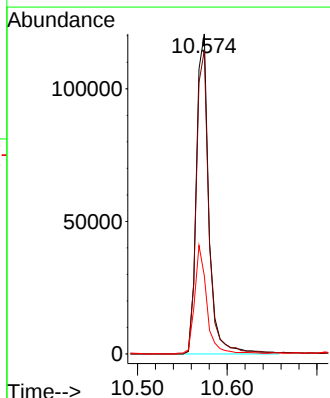
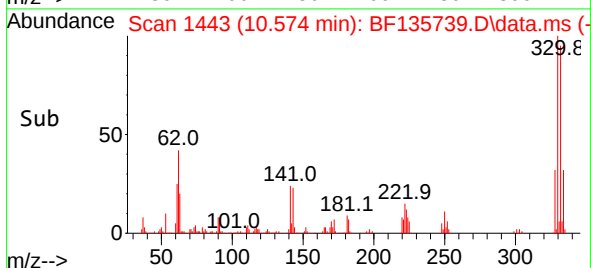
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

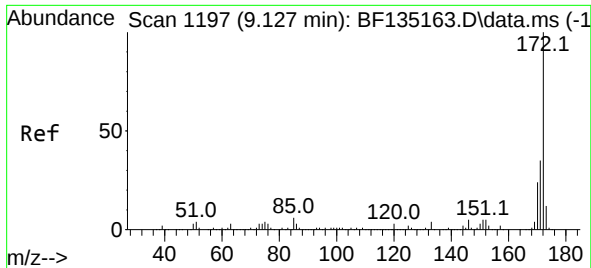


#42
2,4,6-Tribromophenol
Concen: 76.390 ng
RT: 10.574 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31



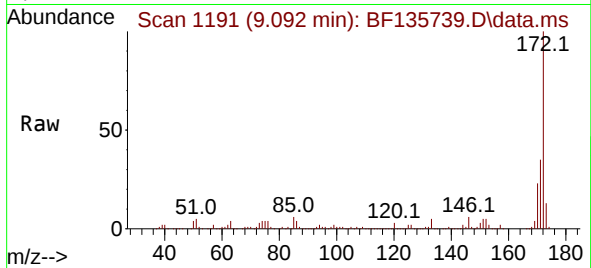
Tgt Ion:330 Resp: 117174
Ion Ratio Lower Upper
330 100
332 96.3 77.3 115.9
141 33.1 25.8 38.8





#45
2-Fluorobiphenyl
Concen: 57.334 ng
RT: 9.092 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

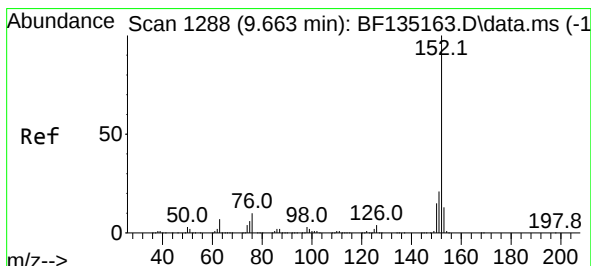
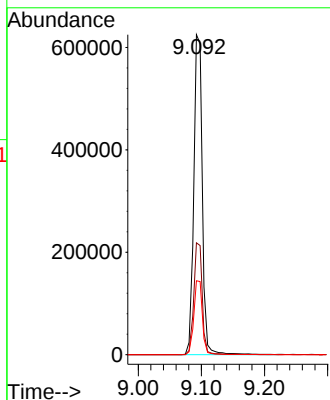
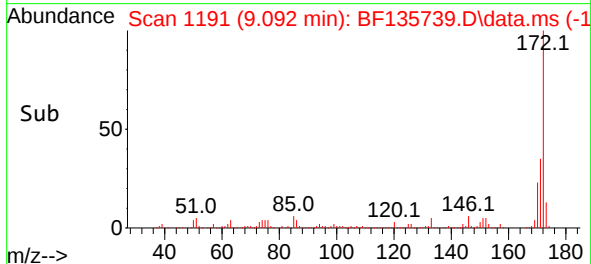
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



Tgt Ion:172 Resp: 586560
Ion Ratio Lower Upper
172 100
171 35.0 28.4 42.6
170 23.1 19.0 28.4

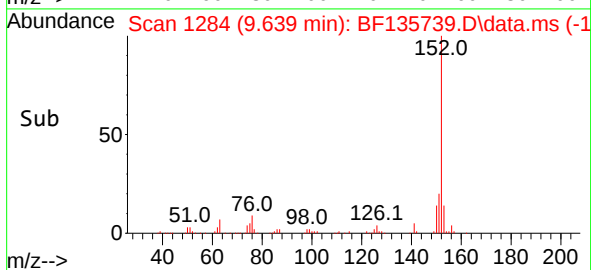
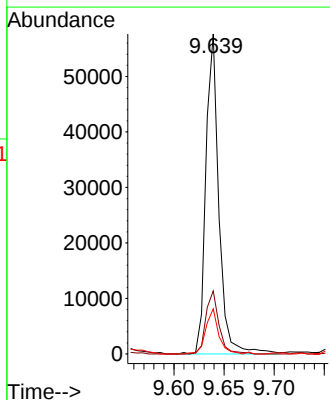
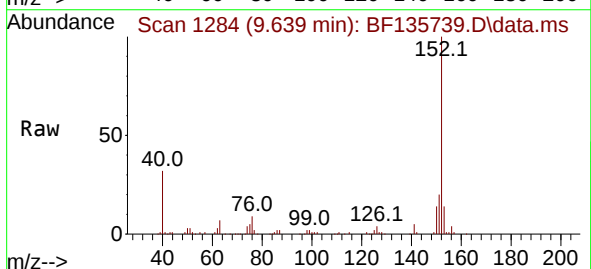
Manual Integrations
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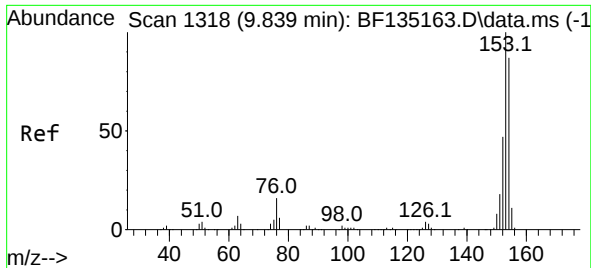
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#49
Acenaphthylene
Concen: 3.639 ng
RT: 9.639 min Scan# 1284
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

Tgt Ion:152 Resp: 52047
Ion Ratio Lower Upper
152 100
151 19.7 16.4 24.6
153 14.1 10.4 15.6





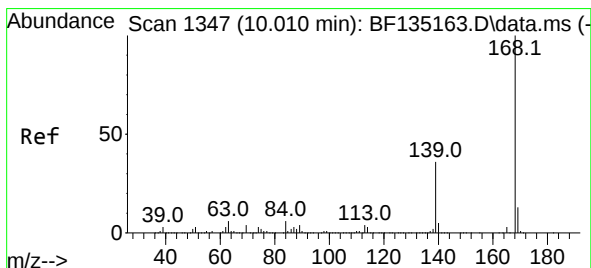
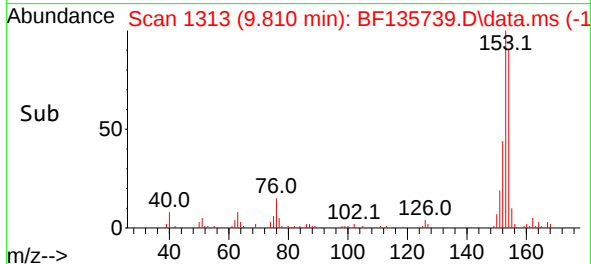
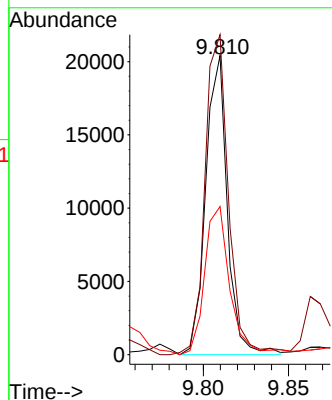
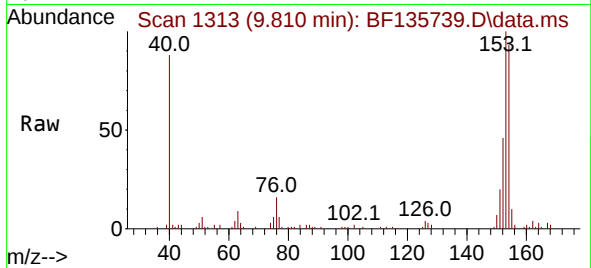
#52
Acenaphthene
Concen: 2.127 ng
RT: 9.810 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)

Tgt Ion:154 Resp: 1797
Ion Ratio Lower Upper
154 100
153 107.0 92.1 138.1
152 49.5 43.1 64.7

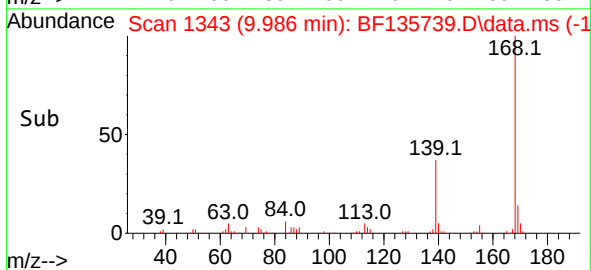
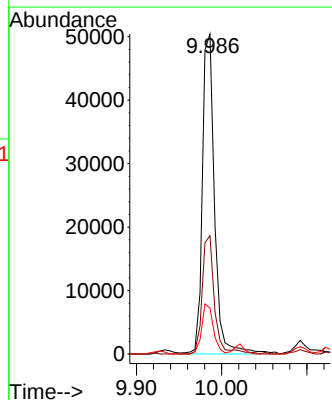
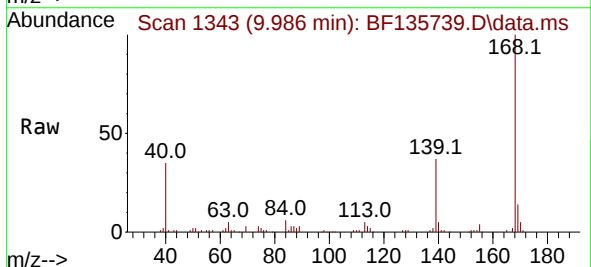
Manual Integrations
APPROVED

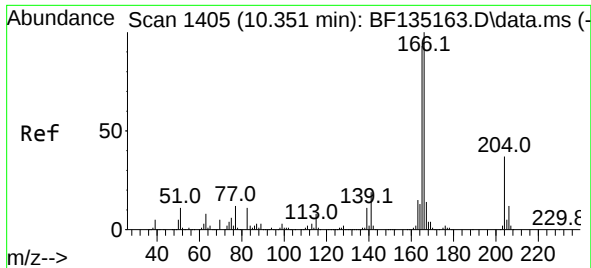
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#55
Dibenzofuran
Concen: 3.896 ng
RT: 9.986 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

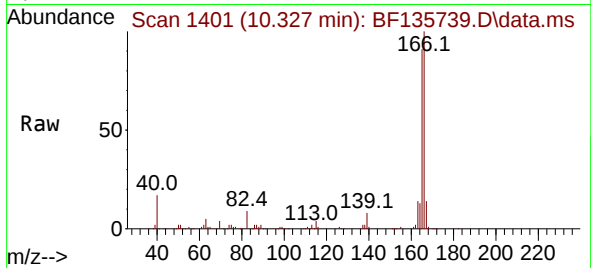
Tgt Ion:168 Resp: 50230
Ion Ratio Lower Upper
168 100
139 36.9 29.0 43.6
169 14.4 10.4 15.6





#58
Fluorene
Concen: 8.886 ng
RT: 10.327 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

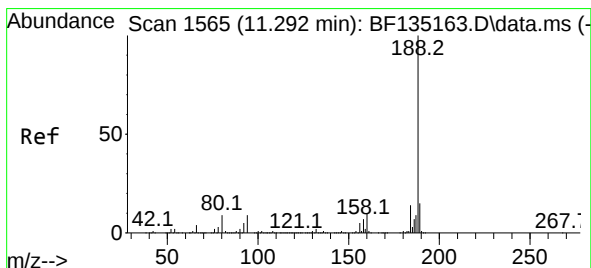
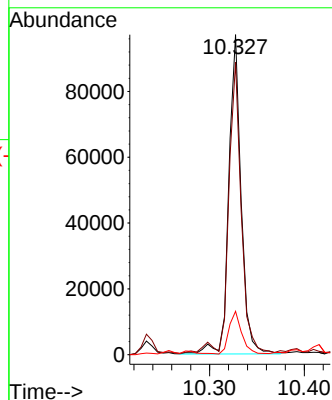
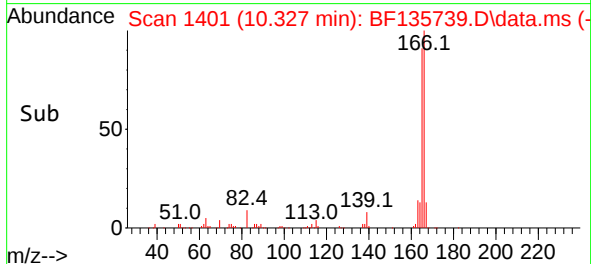
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



Tgt Ion:166 Resp: 8808
Ion Ratio Lower Upper
166 100
165 91.4 74.3 111.5
167 13.5 10.9 16.3

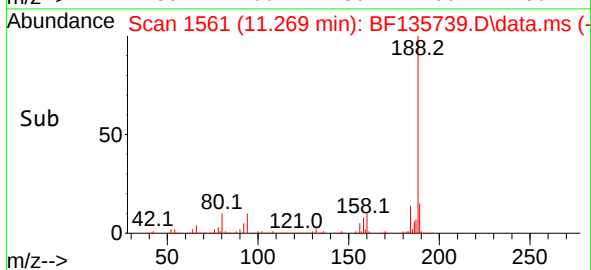
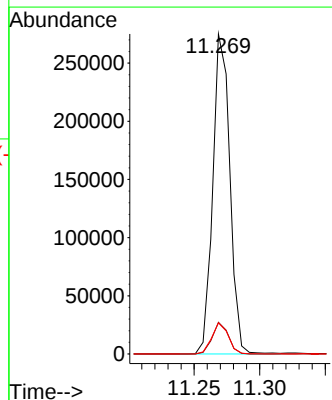
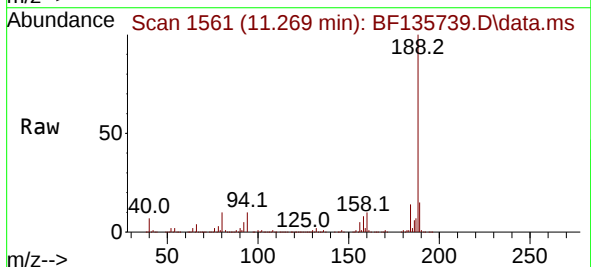
Manual Integrations
APPROVED

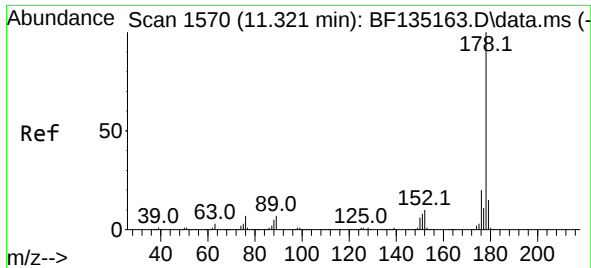
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

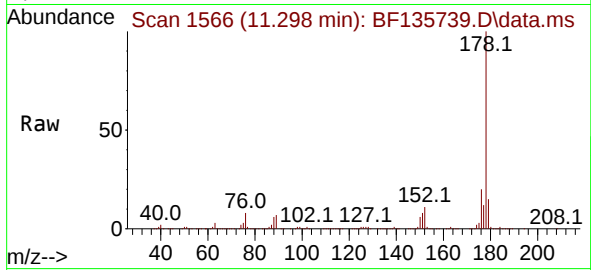
Tgt Ion:188 Resp: 248572
Ion Ratio Lower Upper
188 100
94 9.9 7.0 10.6
80 9.7 7.5 11.3





#71
Phenanthrene
Concen: 51.803 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

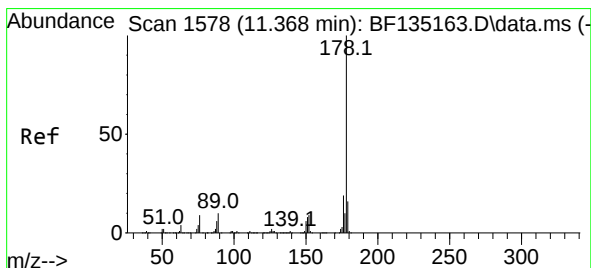
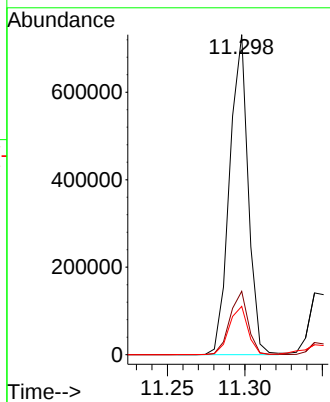
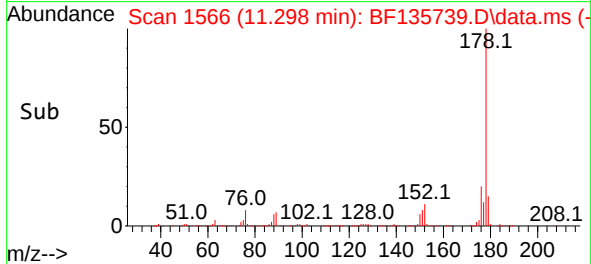
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



Tgt Ion:178 Resp: 609014
Ion Ratio Lower Upper
178 100
176 19.8 15.6 23.4
179 15.1 12.0 18.0

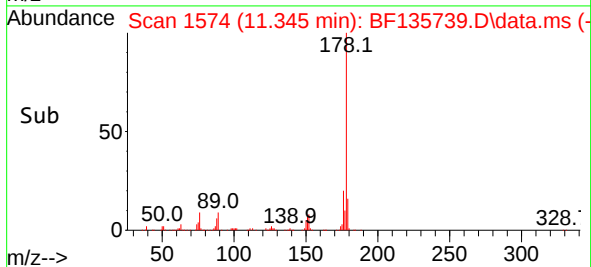
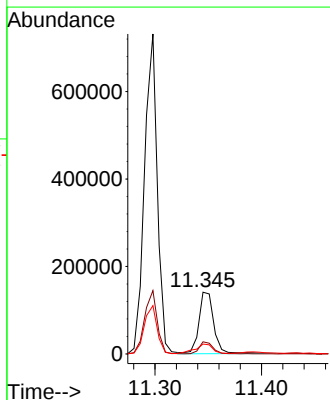
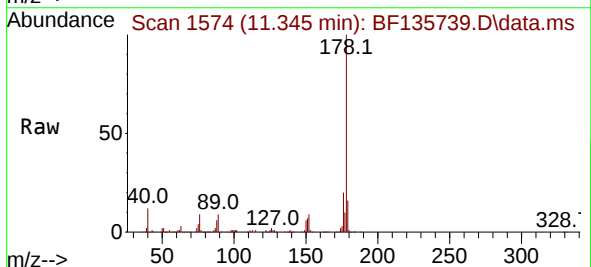
Manual Integrations
APPROVED

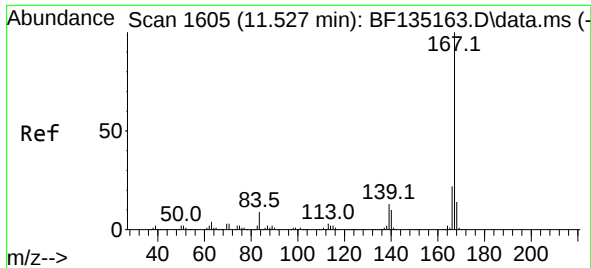
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#72
Anthracene
Concen: 11.362 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

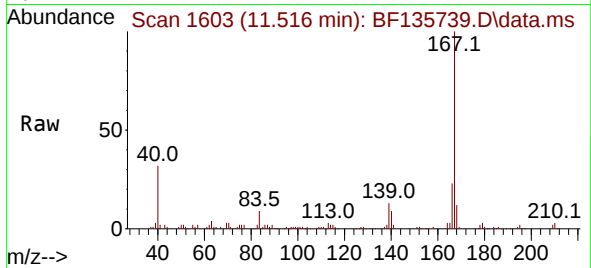
Tgt Ion:178 Resp: 137299
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 16.1 12.6 19.0





#73
 Carbazole
 Concen: 4.311 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. -0.000 min
 Lab File: BF135739.D
 Acq: 12 Oct 2023 17:31

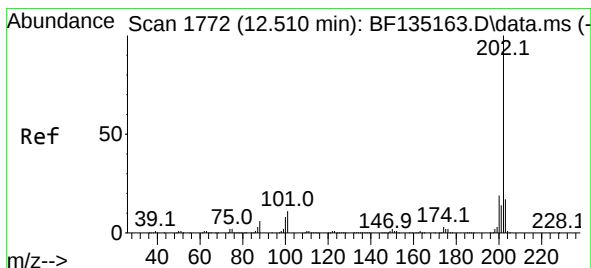
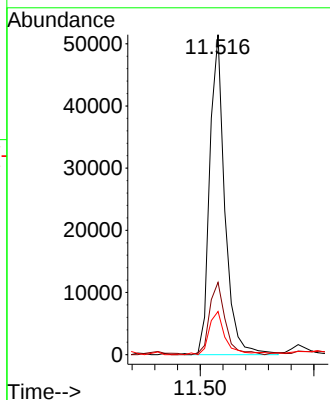
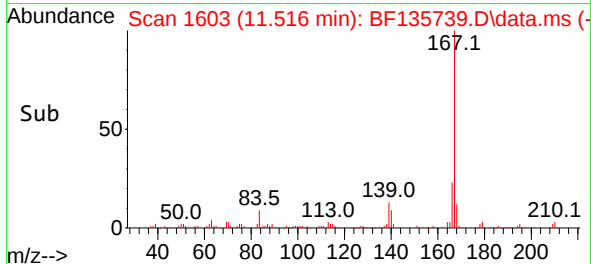
Instrument :
 BNA_F
 ClientSampleId :
 U-1(0-2IN)



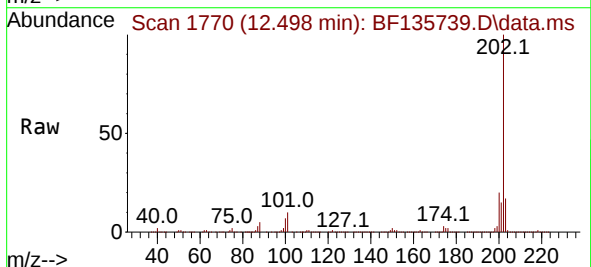
Tgt Ion:167 Resp: 47425
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.4 26.0
 139 13.5 10.6 15.8

Manual Integrations
 APPROVED

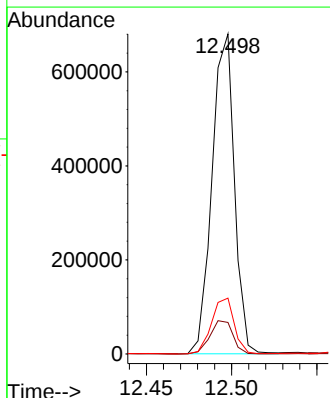
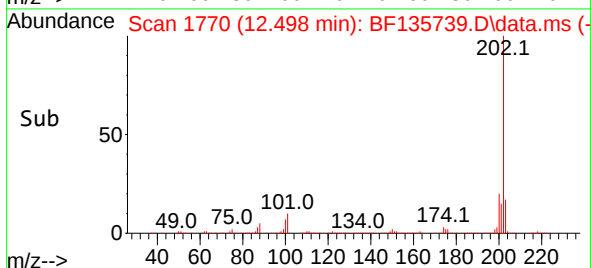
Reviewed By :Yogesh Patel 10/13/2023
 Supervised By :mohammad ahmed 10/13/2023

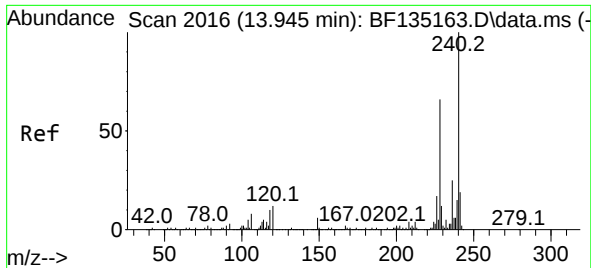


#75
 Fluoranthene
 Concen: 50.915 ng
 RT: 12.498 min Scan# 1770
 Delta R.T. -0.000 min
 Lab File: BF135739.D
 Acq: 12 Oct 2023 17:31



Tgt Ion:202 Resp: 623708
 Ion Ratio Lower Upper
 202 100
 101 9.8 0.0 31.3
 203 17.5 0.0 37.4





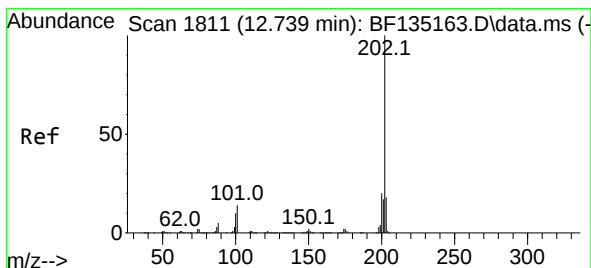
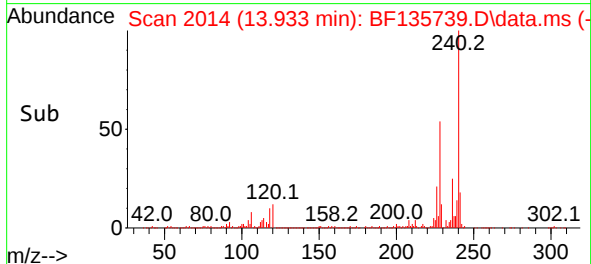
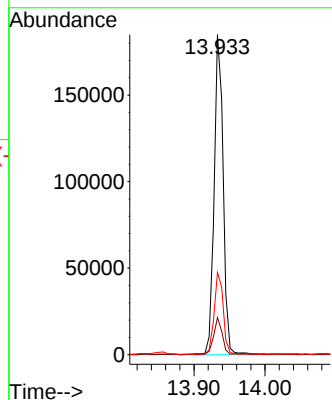
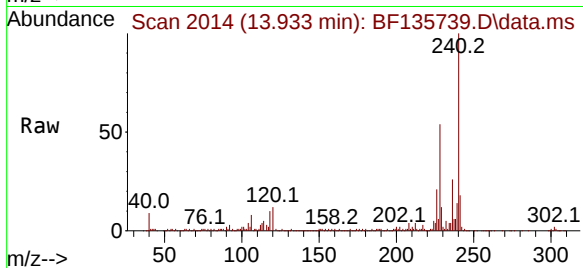
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)

Tgt Ion:240 Resp: 16409
Ion Ratio Lower Upper
240 100
120 11.6 9.4 14.2
236 25.7 19.8 29.8

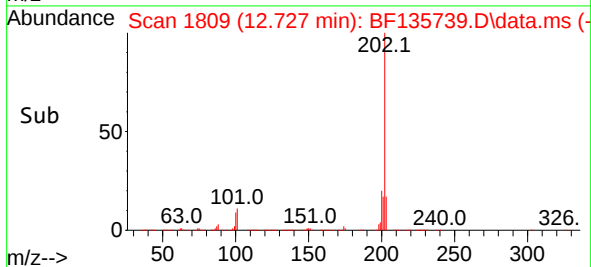
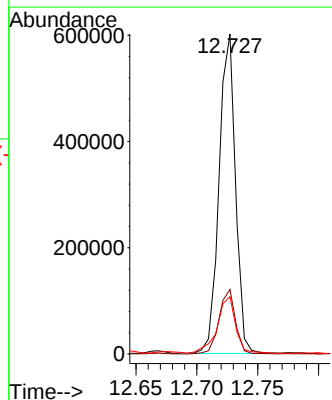
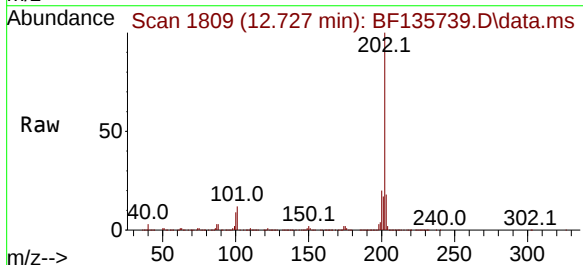
Manual Integrations
APPROVED

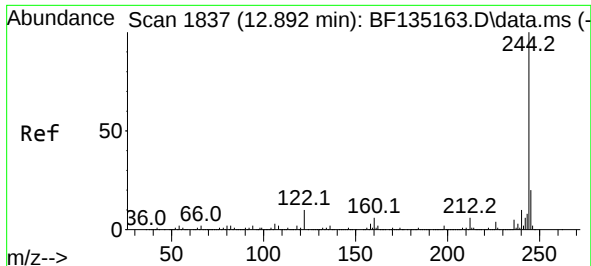
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#78
Pyrene
Concen: 36.246 ng
RT: 12.727 min Scan# 1809
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

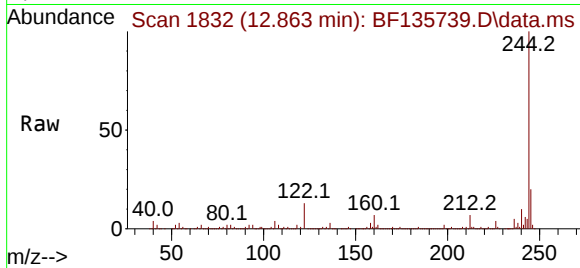
Tgt Ion:202 Resp: 566273
Ion Ratio Lower Upper
202 100
200 20.1 16.2 24.2
203 17.9 14.2 21.4





#79
Terphenyl-d14
Concen: 36.846 ng
RT: 12.863 min Scan# 1832
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

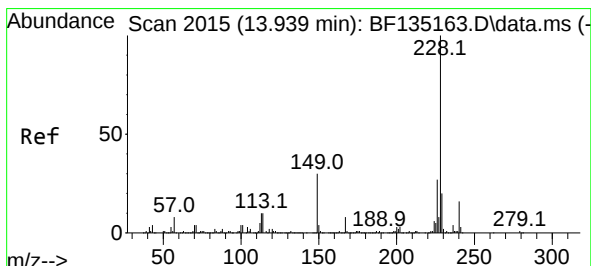
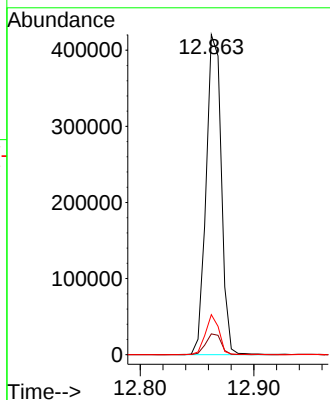
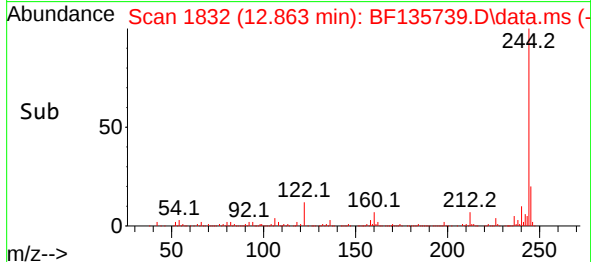
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



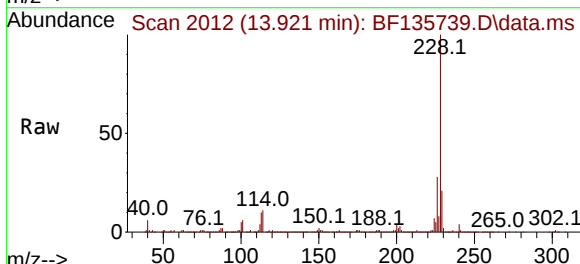
Tgt Ion:244 Resp: 390027
Ion Ratio Lower Upper
244 100
212 6.5 5.1 7.7
122 12.5 7.9 11.9

Manual Integrations
APPROVED

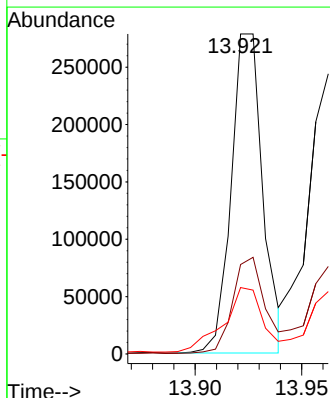
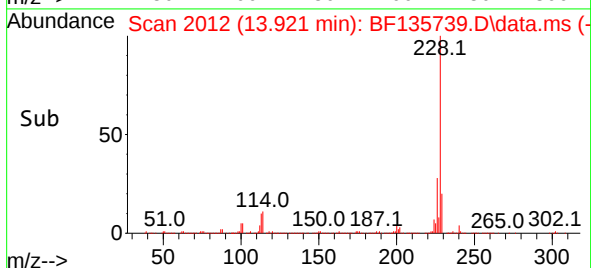
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

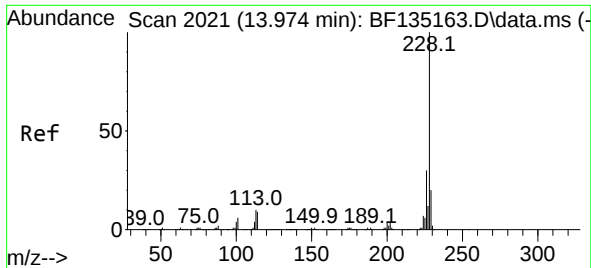


#81
Benzo(a)anthracene
Concen: 27.215 ng
RT: 13.921 min Scan# 2012
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31



Tgt Ion:228 Resp: 288366
Ion Ratio Lower Upper
228 100
226 27.9 21.7 32.5
229 20.7 15.8 23.8





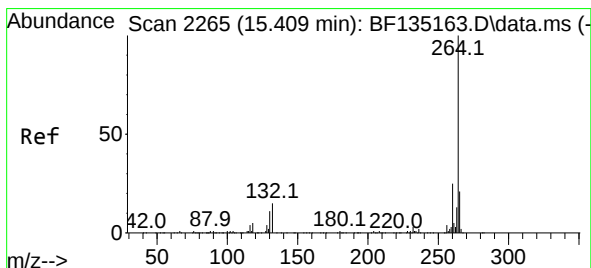
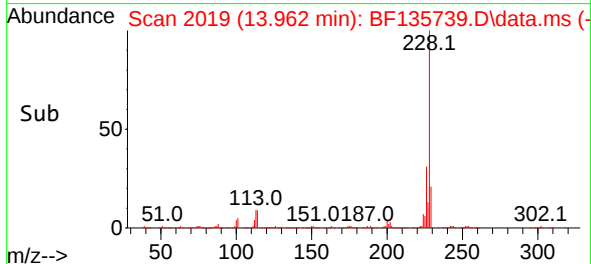
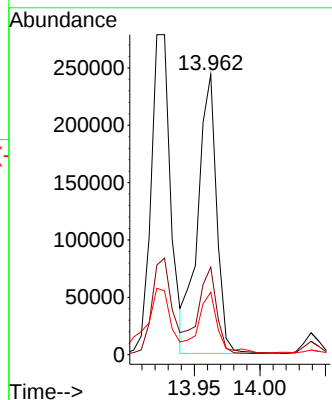
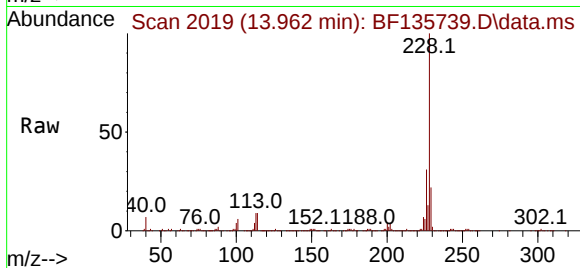
#83
Chrysene
Concen: 23.146 ng
RT: 13.962 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)

Tgt Ion:228 Resp: 24384
Ion Ratio Lower Upper
228 100
226 31.3 24.3 36.5
229 22.3 16.0 24.0

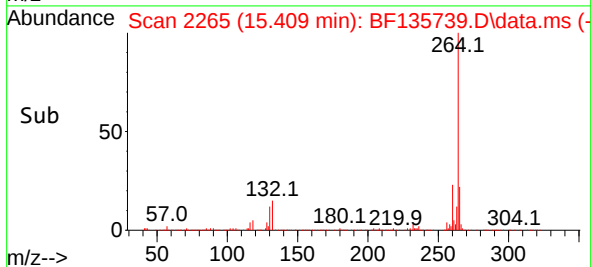
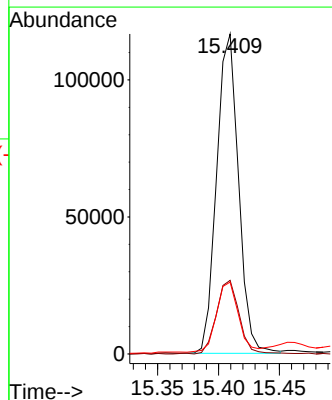
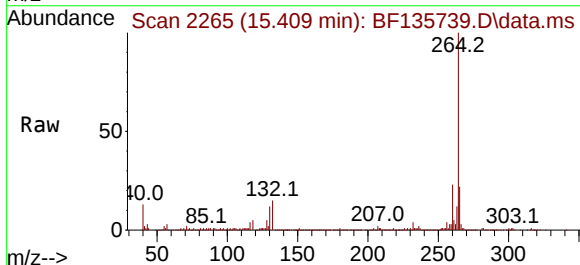
Manual Integrations
APPROVED

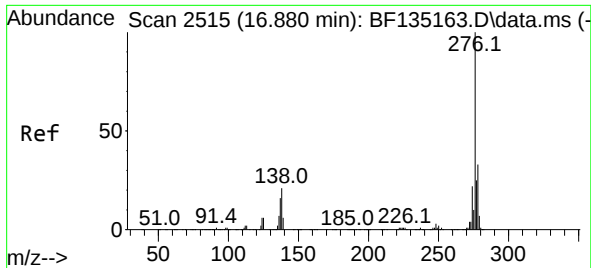
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.409 min Scan# 2265
Delta R.T. 0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

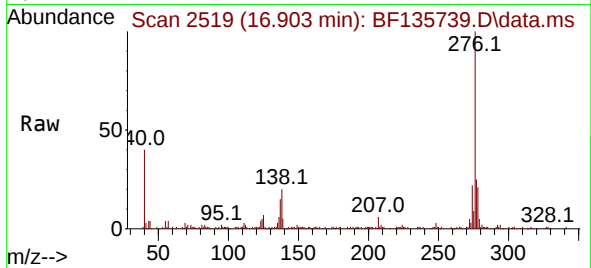
Tgt Ion:264 Resp: 145791
Ion Ratio Lower Upper
264 100
260 23.0 19.8 29.6
265 22.4 17.0 25.4





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.055 ng
RT: 16.903 min Scan# 2119
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

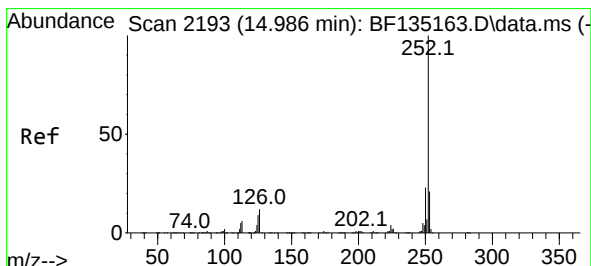
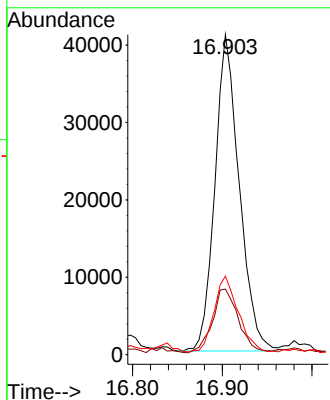
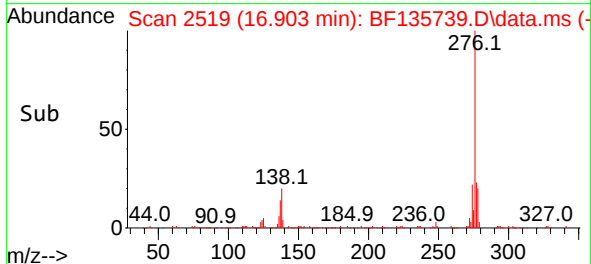
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



Tgt Ion:276 Resp: 76997
Ion Ratio Lower Upper
276 100
138 21.5 19.2 28.8
277 23.7 19.7 29.5

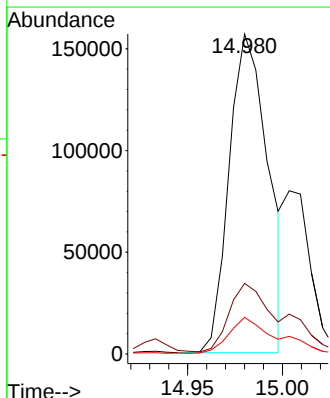
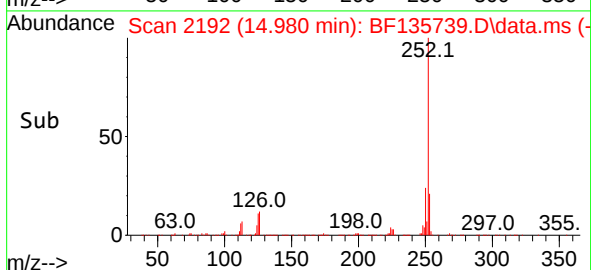
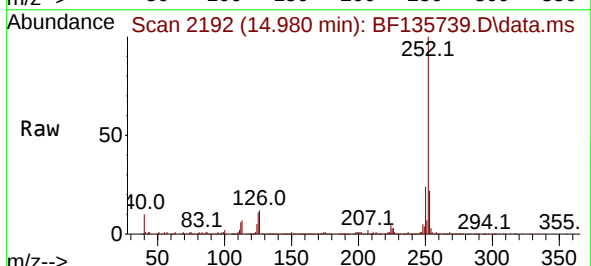
Manual Integrations
APPROVED

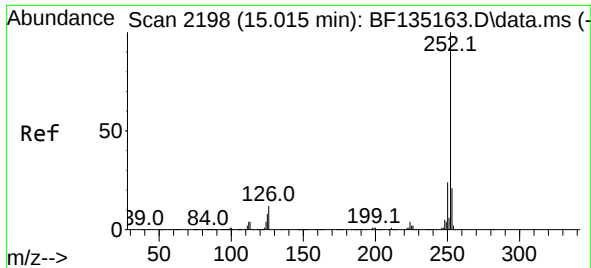
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#88
Benzo(b)fluoranthene
Concen: 28.413 ng m
RT: 14.980 min Scan# 2192
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

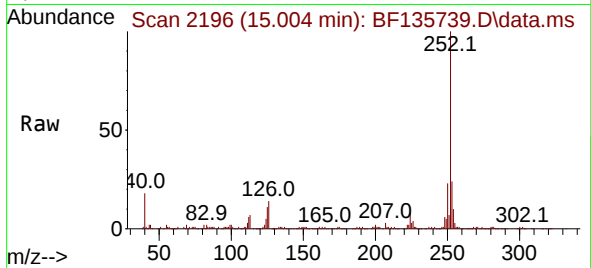
Tgt Ion:252 Resp: 224240
Ion Ratio Lower Upper
252 100
253 22.1 17.2 25.8
125 11.5 7.1 10.7#





#89
Benzo(k)fluoranthene
Concen: 9.645 ng m
RT: 15.004 min Scan# 2198
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

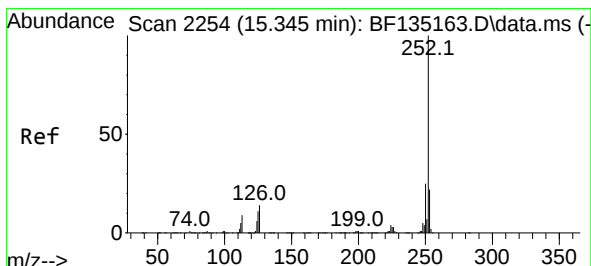
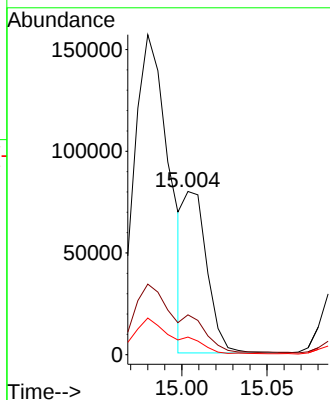
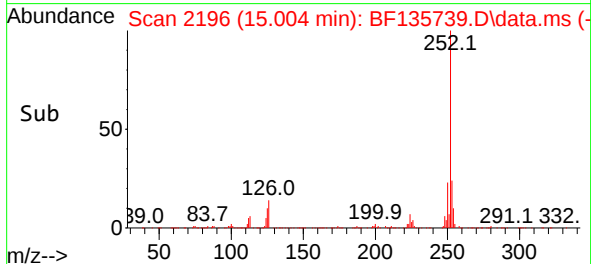
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



Tgt Ion:252 Resp: 75190
Ion Ratio Lower Upper
252 100
253 24.5 17.4 26.0
125 10.8 7.2 10.8

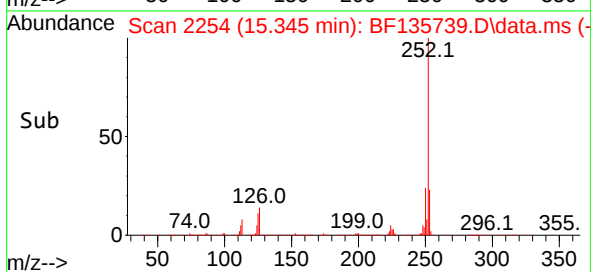
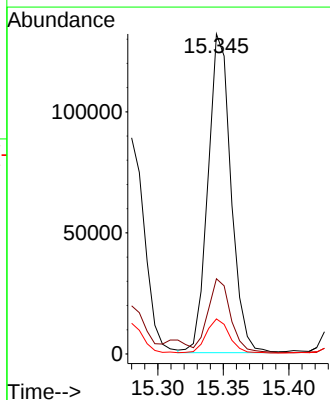
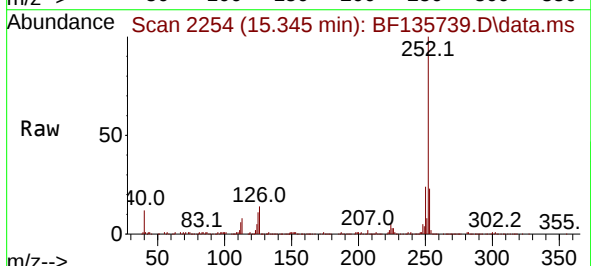
Manual Integrations
APPROVED

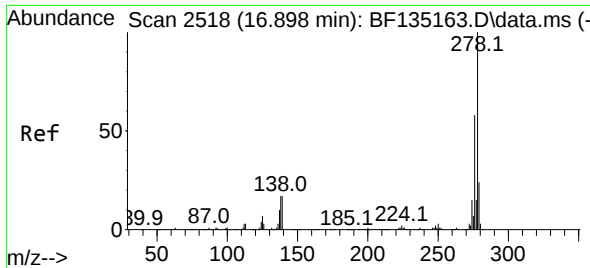
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#90
Benzo(a)pyrene
Concen: 21.365 ng
RT: 15.345 min Scan# 2254
Delta R.T. -0.000 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

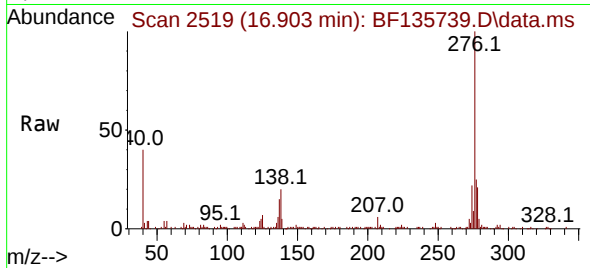
Tgt Ion:252 Resp: 160796
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 11.0 9.2 13.8





#91
Dibenzo(a,h)anthracene
Concen: 2.835 ng m
RT: 16.903 min Scan# 2518
Delta R.T. -0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31

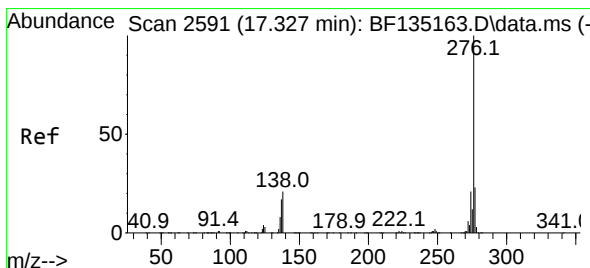
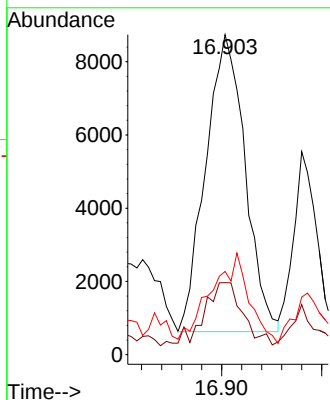
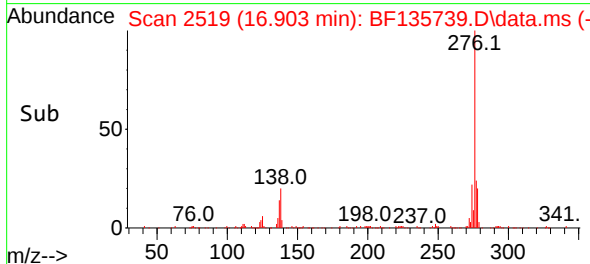
Instrument :
BNA_F
ClientSampleId :
U-1(0-2IN)



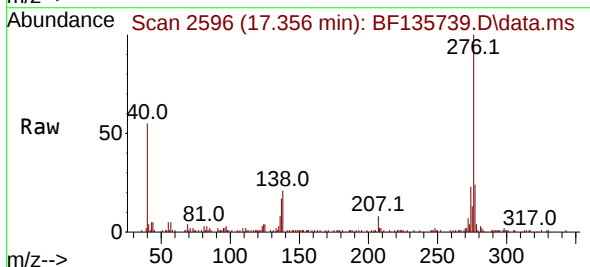
Tgt Ion: 278 Resp: 22172
Ion Ratio Lower Upper
278 100
139 22.5 13.4 20.0
279 26.0 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#92
Benzo(g,h,i)perylene
Concen: 8.371 ng
RT: 17.356 min Scan# 2596
Delta R.T. 0.006 min
Lab File: BF135739.D
Acq: 12 Oct 2023 17:31



Tgt Ion: 276 Resp: 68374
Ion Ratio Lower Upper
276 100
277 23.6 18.8 28.2
138 21.3 16.9 25.3

