

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100223\
 Data File : BF135531.D
 Acq On : 02 Oct 2023 17:10
 Operator : CG\JU
 Sample : 04622-01DL 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 I-1(0-5)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/03/2023
 Supervised By :mohammad ahmed 10/04/2023

Quant Time: Oct 03 02:56:16 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 30 00:12:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	176991	20.000	ng	-0.01
21) Naphthalene-d8	8.022	136	666620	20.000	ng	# 0.00
39) Acenaphthene-d10	9.775	164	314014	20.000	ng	-0.01
64) Phenanthrene-d10	11.269	188	525645	20.000	ng	# 0.00
76) Chrysene-d12	13.933	240	266772	20.000	ng	0.00
86) Perylene-d12	15.392	264	336188	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	224959	20.672	ng	0.00
7) Phenol-d6	6.392	99	284706	20.575	ng	-0.01
23) Nitrobenzene-d5	7.304	82	165187	13.463	ng	-0.02
42) 2,4,6-Tribromophenol	10.569	330	49794	15.957	ng	-0.01
45) 2-Fluorobiphenyl	9.098	172	310041	14.896	ng	-0.01
79) Terphenyl-d14	12.863	244	209695	12.185	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.045	128	1942510	59.974	ng	99
37) 2-Methylnaphthalene	8.733	142	332938	15.292	ng	100
38) 1-Methylnaphthalene	8.833	142	203223	9.970	ng	98
46) 1,1'-Biphenyl	9.198	154	100634	4.170	ng	97
49) Acenaphthylene	9.639	152	102459	3.521	ng	97
52) Acenaphthene	9.810	154	44057	2.563	ng	98
55) Dibenzofuran	9.980	168	312243	11.903	ng	98
58) Fluorene	10.327	166	411371	20.400	ng	98
71) Phenanthrene	11.298	178	1295039	52.092	ng	99
72) Anthracene	11.345	178	406944	15.925	ng	99
73) Carbazole	11.510	167	136798	5.881	ng	99
75) Fluoranthene	12.498	202	943829	36.435	ng	98
78) Pyrene	12.727	202	805444	31.712	ng	98
81) Benzo(a)anthracene	13.921	228	379703	22.042	ng	98
83) Chrysene	13.957	228	332085	19.390	ng	98
87) Indeno(1,2,3-cd)pyrene	16.874	276	171137	7.764	ng	99
88) Benzo(b)fluoranthene	14.974	252	360328m	19.799	ng	
89) Benzo(k)fluoranthene	14.998	252	145084m	8.070	ng	
90) Benzo(a)pyrene	15.333	252	303133	17.466	ng	97
92) Benzo(g,h,i)perylene	17.321	276	156784	8.324	ng	# 96

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

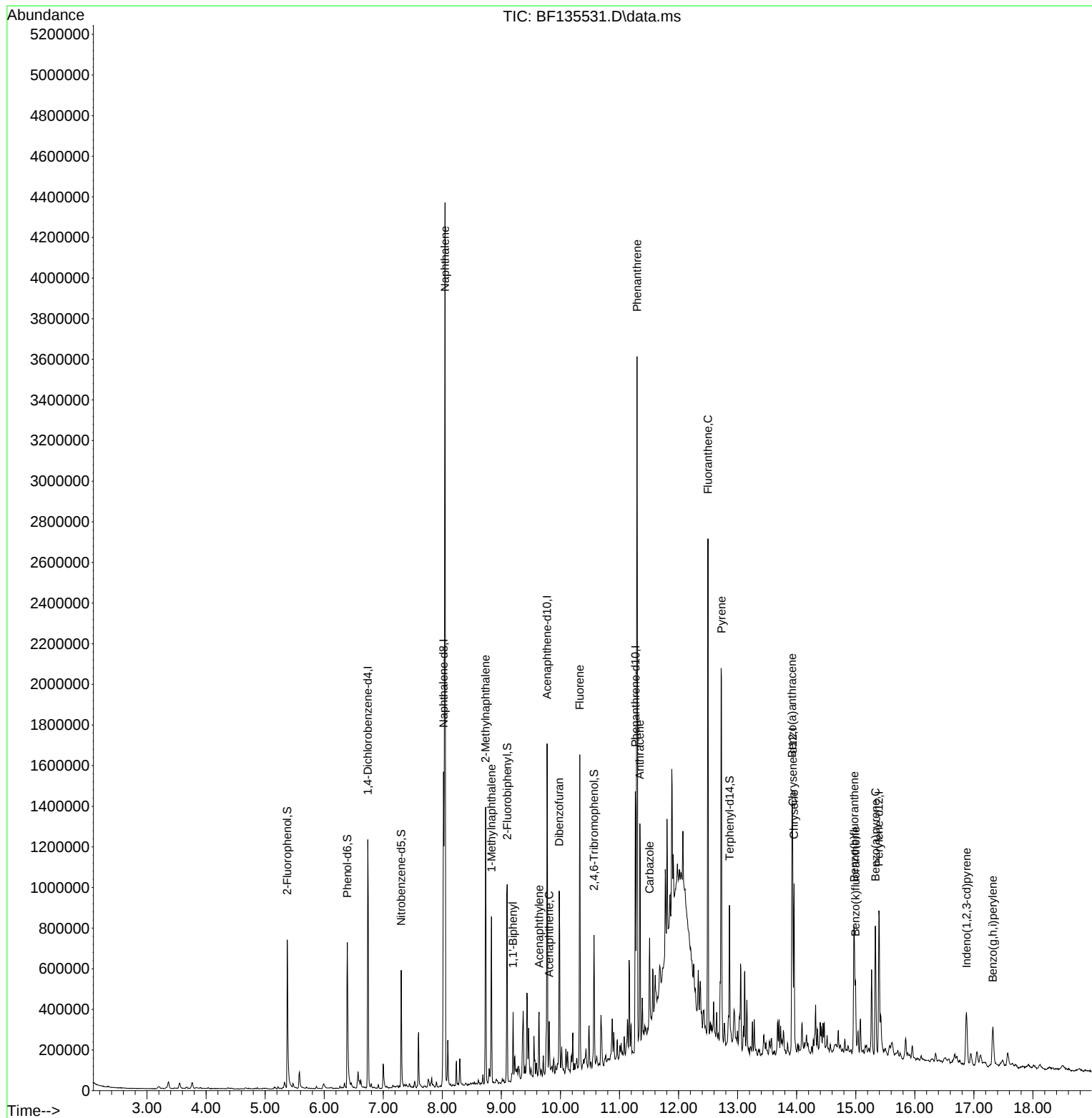
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100223\
Data File : BF135531.D
Acq On : 02 Oct 2023 17:10
Operator : CG\JU
Sample : 04622-01DL 5X
Misc :
ALS Vial : 9 Sample Multiplier: 1

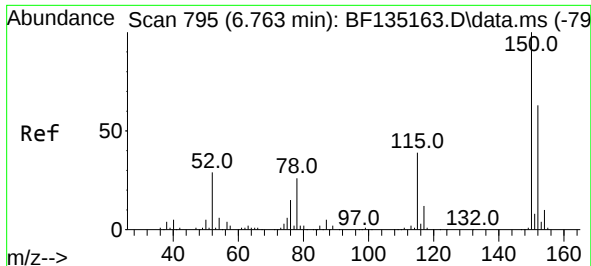
Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL

Quant Time: Oct 03 02:56:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 30 00:12:20 2023
Response via : Initial Calibration

Manual Integrations
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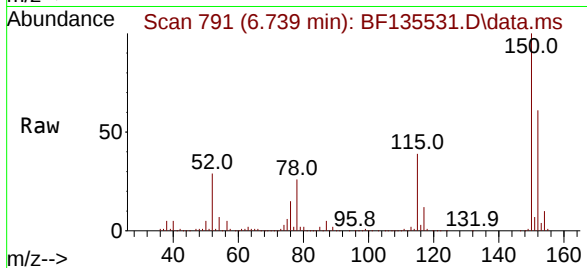
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. -0.012 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

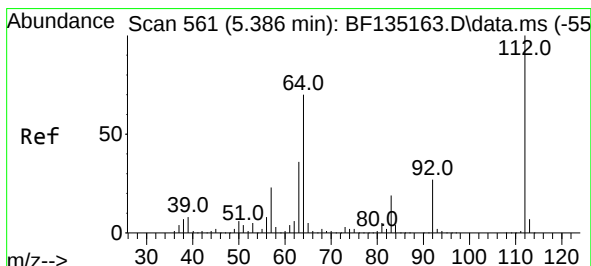
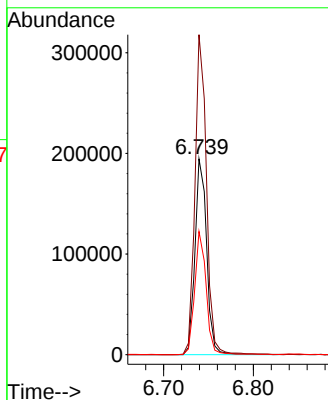
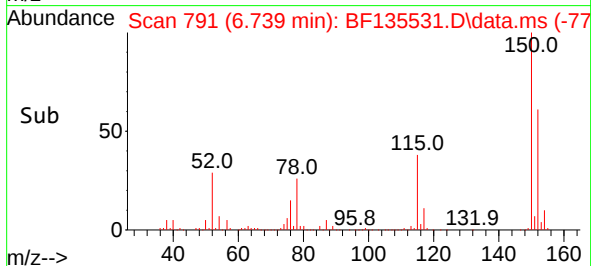
Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL



Tgt Ion:152 Resp: 17699
Ion Ratio Lower Upper
152 100
150 163.4 127.8 191.6
115 62.9 49.8 74.8

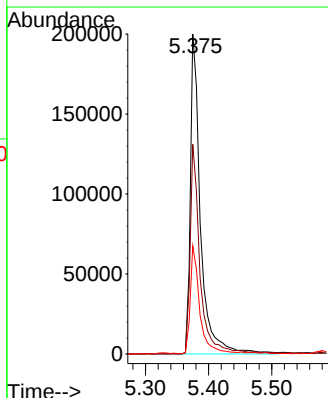
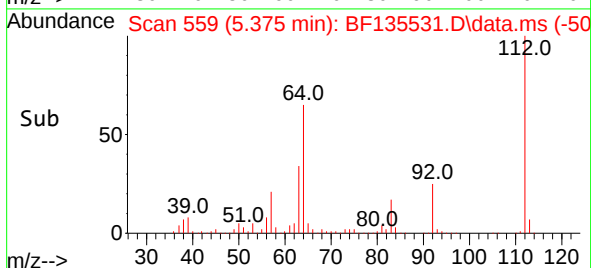
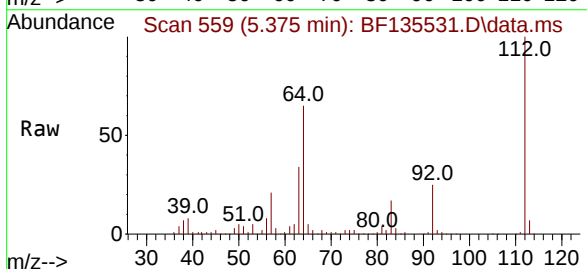
Manual Integrations
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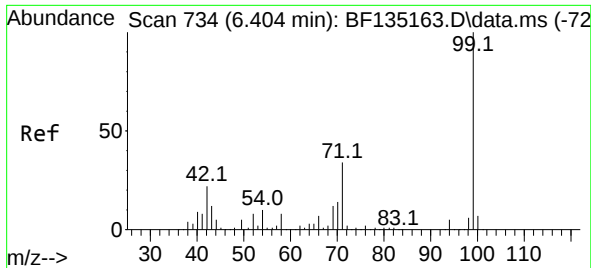
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023



#5
2-Fluorophenol
Concen: 20.672 ng
RT: 5.375 min Scan# 559
Delta R.T. -0.006 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

Tgt Ion:112 Resp: 224959
Ion Ratio Lower Upper
112 100
64 65.5 55.9 83.9
63 33.7 29.0 43.6





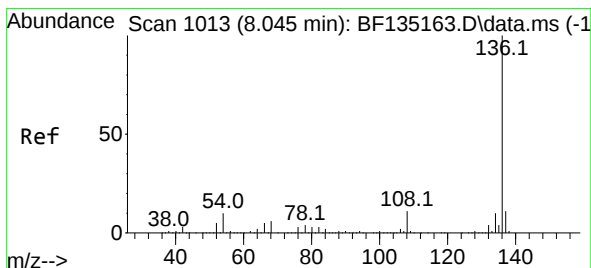
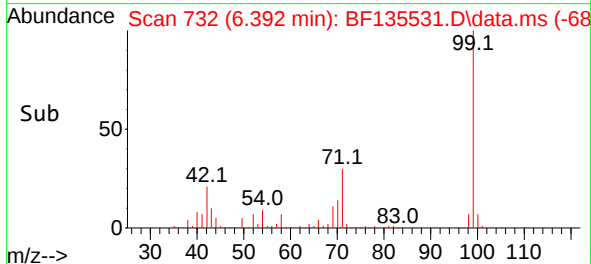
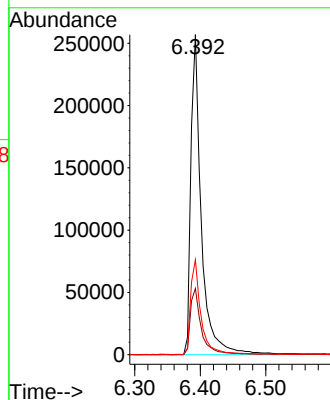
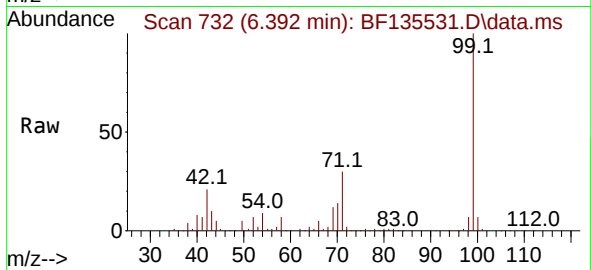
#7
Phenol-d6
Concen: 20.575 ng
RT: 6.392 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL

Tgt Ion: 99 Resp: 284700
Ion Ratio Lower Upper
99 100
42 20.7 17.9 26.9
71 29.6 27.0 40.6

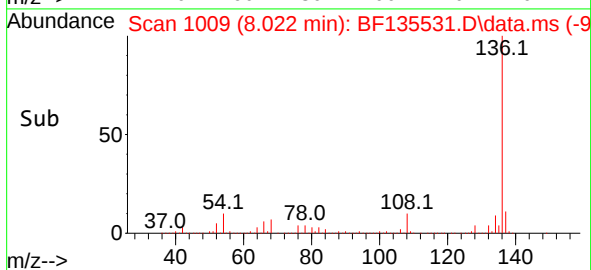
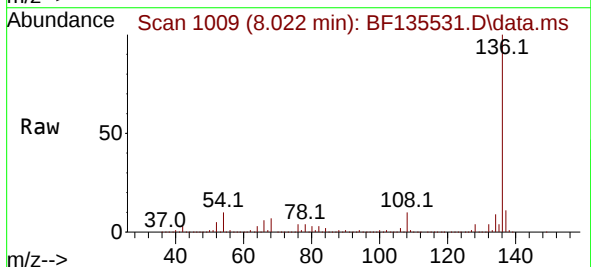
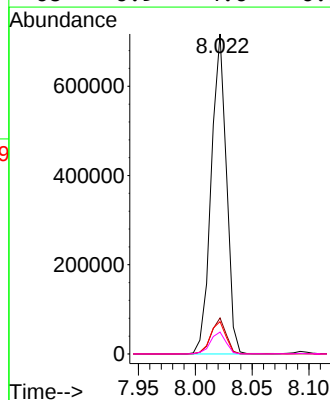
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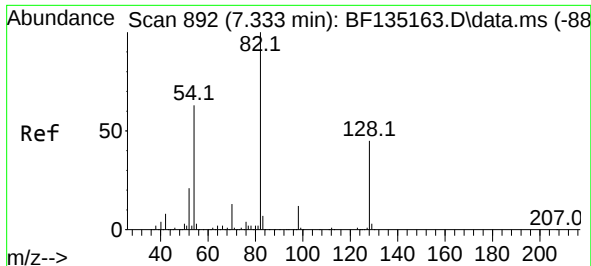
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

Tgt Ion:136 Resp: 666620
Ion Ratio Lower Upper
136 100
137 11.3 8.8 13.2
54 10.1 7.7 11.5
68 6.9 4.6 6.8#





#23

Nitrobenzene-d5

Concen: 13.463 ng

RT: 7.304 min Scan# 81

Delta R.T. -0.018 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Instrument :

BNA_F

ClientSampleId :

I-1(0-5)DL

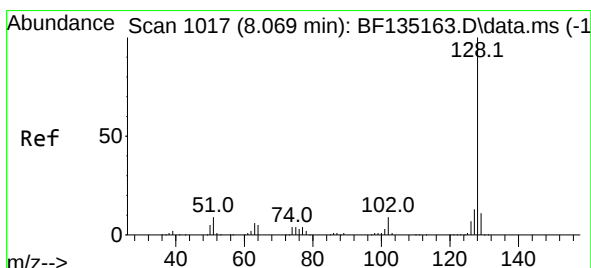
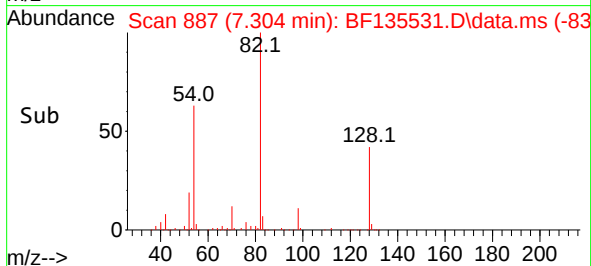
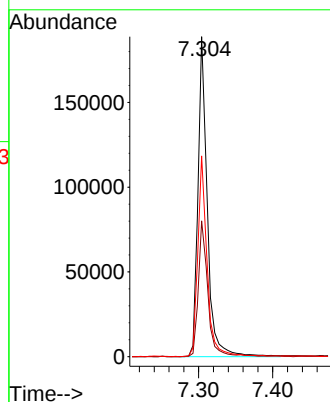
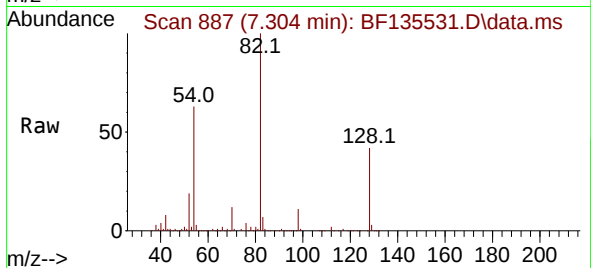
Tgt Ion:	82	Resp:	16518
Ion Ratio	Lower	Upper	
82	100		
128	42.4	35.8	53.6
54	62.8	50.6	76.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/03/2023

Supervised By :mohammad ahmed 10/04/2023



#31

Naphthalene

Concen: 59.974 ng

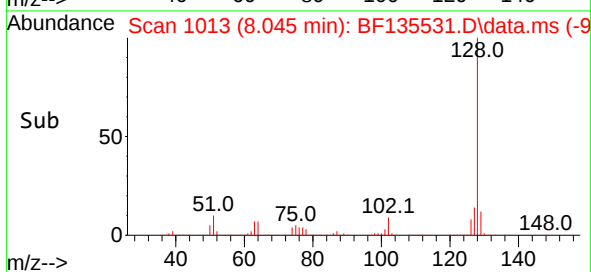
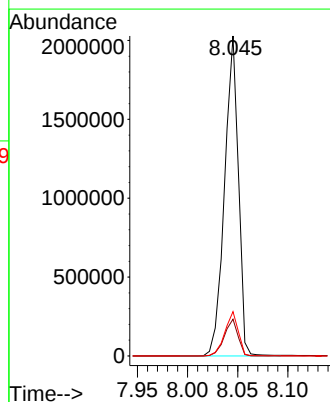
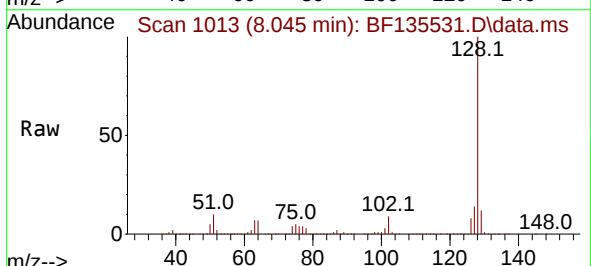
RT: 8.045 min Scan# 1013

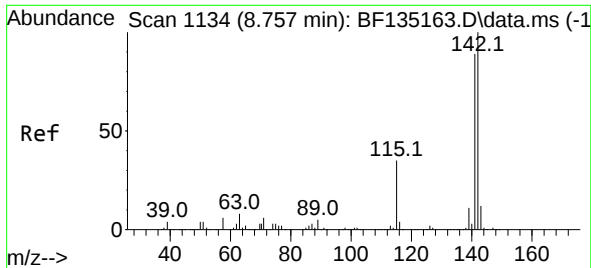
Delta R.T. -0.006 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Tgt Ion:	128	Resp:	1942510
Ion Ratio	Lower	Upper	
128	100		
129	11.5	8.7	13.1
127	13.9	10.7	16.1





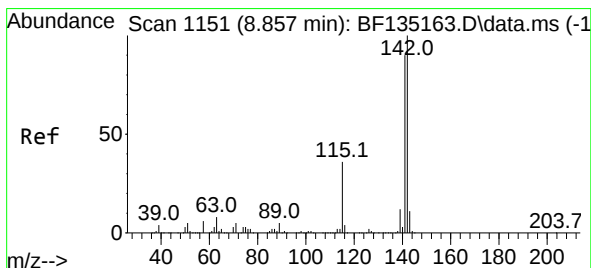
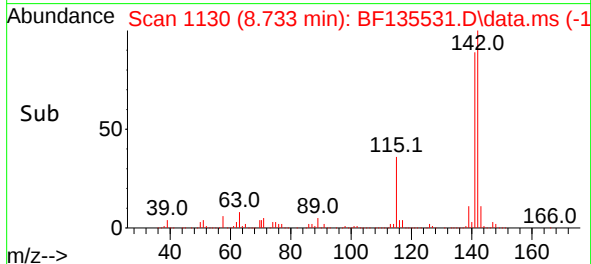
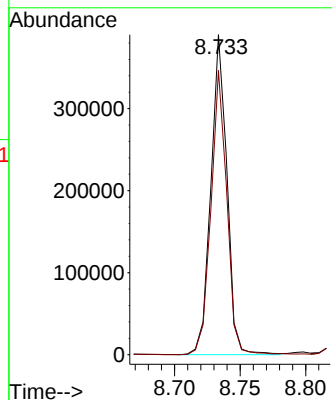
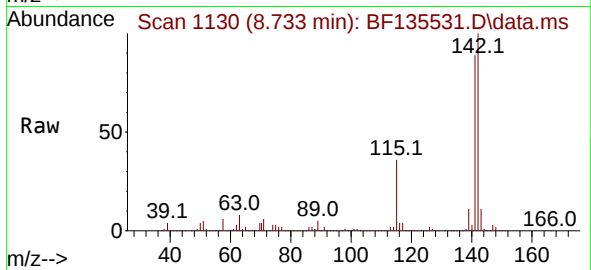
#37
2-Methylnaphthalene
Concen: 15.292 ng
RT: 8.733 min Scan# 1146
Delta R.T. -0.006 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL

Tgt Ion:142 Resp: 332938
Ion Ratio Lower Upper
142 100
141 88.8 71.0 106.6

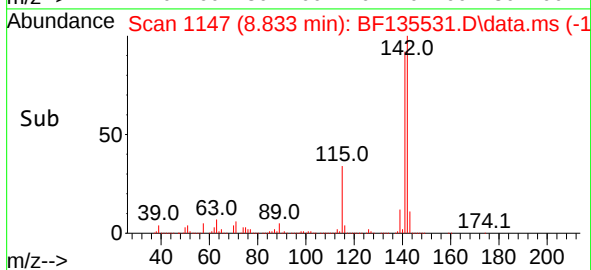
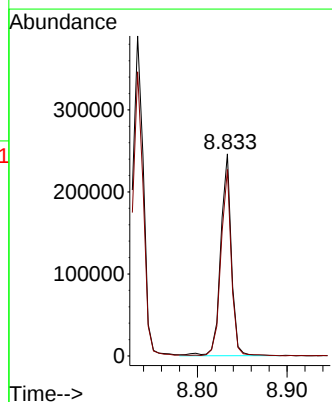
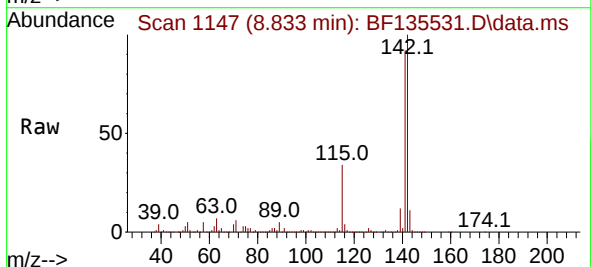
Manual Integrations
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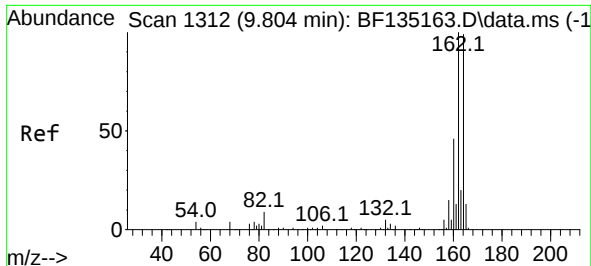
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023



#38
1-Methylnaphthalene
Concen: 9.970 ng
RT: 8.833 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

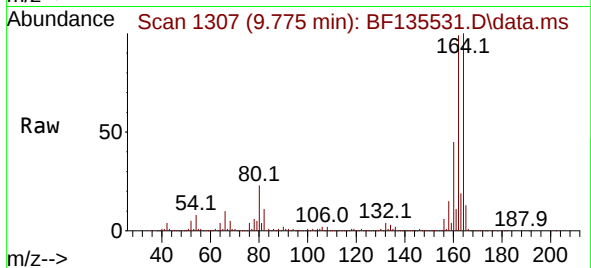
Tgt Ion:142 Resp: 203223
Ion Ratio Lower Upper
142 100
141 92.3 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

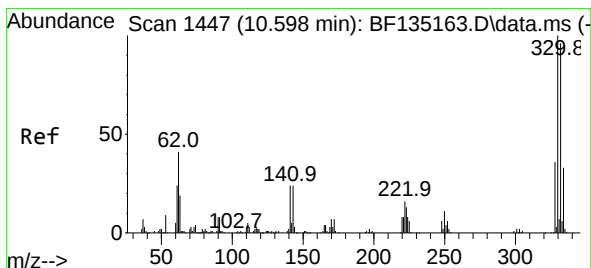
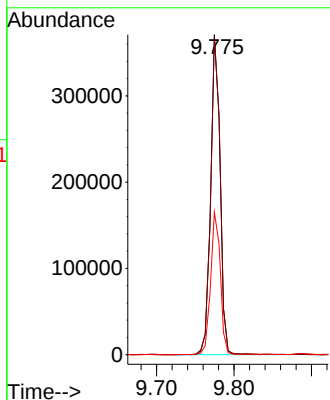
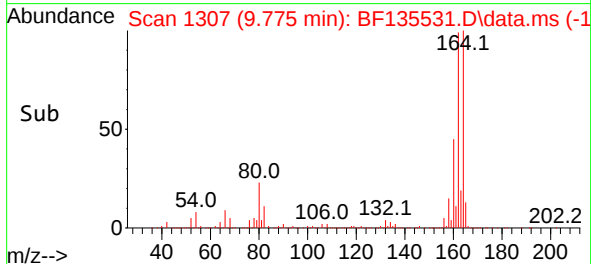
Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL



Tgt Ion:164 Resp: 314014
Ion Ratio Lower Upper
164 100
162 99.3 81.0 121.4
160 44.6 37.0 55.4

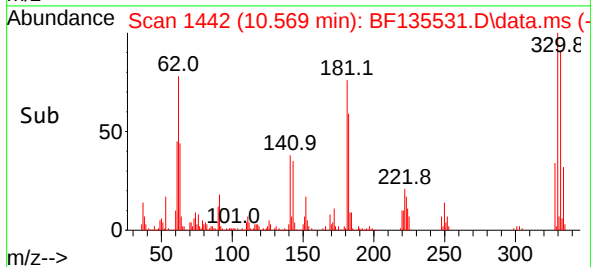
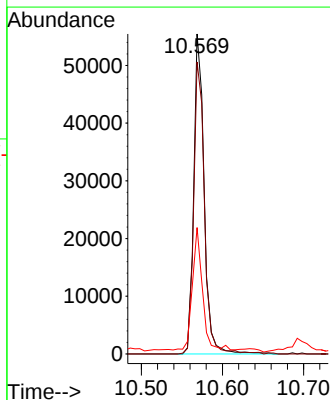
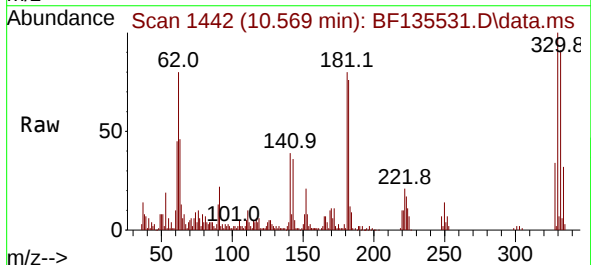
Manual Integrations
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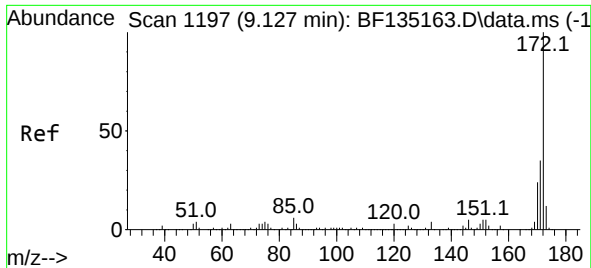
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023



#42
2,4,6-Tribromophenol
Concen: 15.957 ng
RT: 10.569 min Scan# 1442
Delta R.T. -0.012 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

Tgt Ion:330 Resp: 49794
Ion Ratio Lower Upper
330 100
332 94.3 77.3 115.9
141 37.3 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 14.896 ng

RT: 9.098 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Instrument :

BNA_F

ClientSampleId :

1-1(0-5)DL

Tgt Ion:172 Resp: 31004

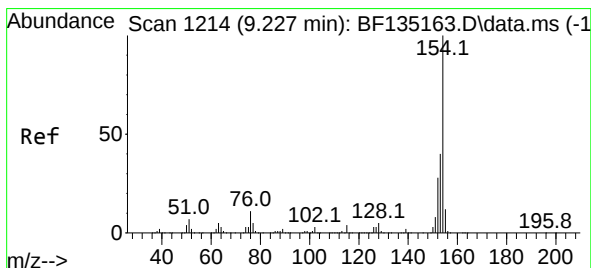
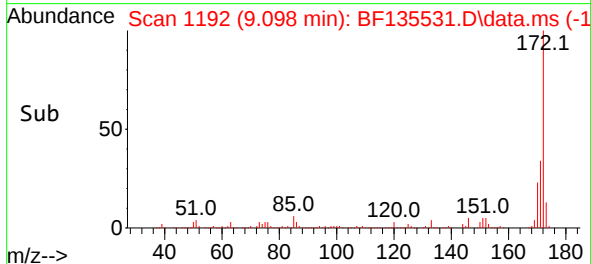
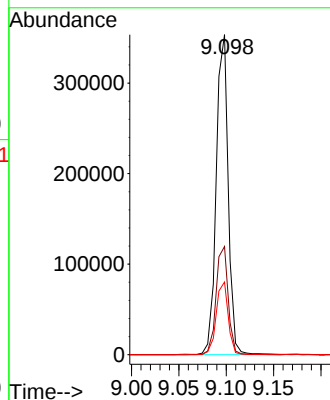
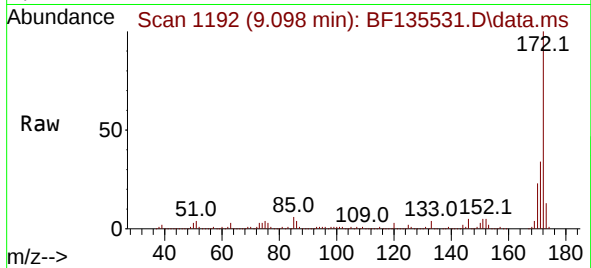
Ion	Ratio	Lower	Upper
172	100		
171	33.8	28.4	42.6
170	22.7	19.0	28.4

Manual Integrations

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Reviewed By :Yogesh Patel 10/03/2023

Supervised By :mohammad ahmed 10/04/2023



#46

1,1'-Biphenyl

Concen: 4.170 ng

RT: 9.198 min Scan# 1209

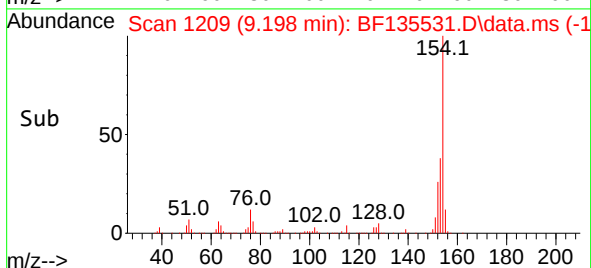
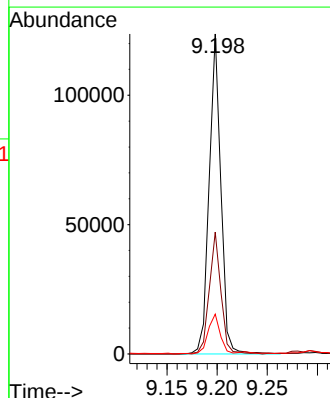
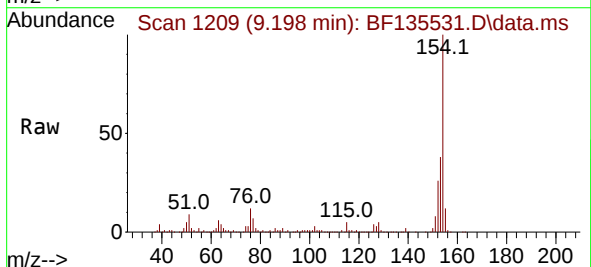
Delta R.T. -0.012 min

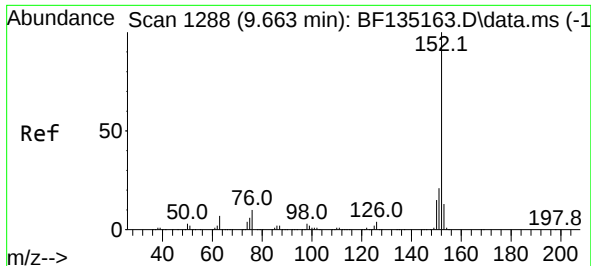
Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Tgt Ion:154 Resp: 100634

Ion	Ratio	Lower	Upper
154	100		
153	38.1	19.6	59.6
76	12.5	0.0	31.0





#49

Acenaphthylene

Concen: 3.521 ng

RT: 9.639 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Instrument :

BNA_F

ClientSampleId :

1-1(0-5)DL

Tgt Ion:152 Resp: 102459

Ion Ratio Lower Upper

152 100

151 19.7 16.4 24.6

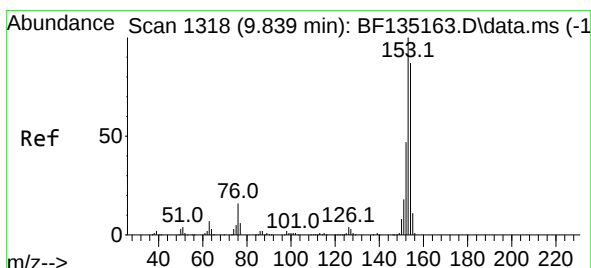
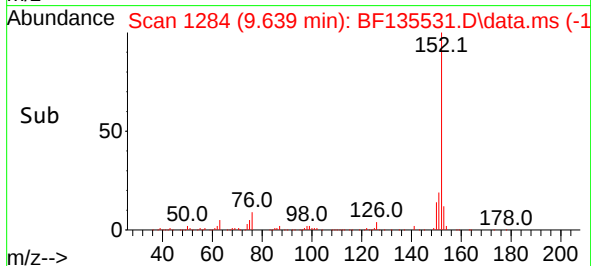
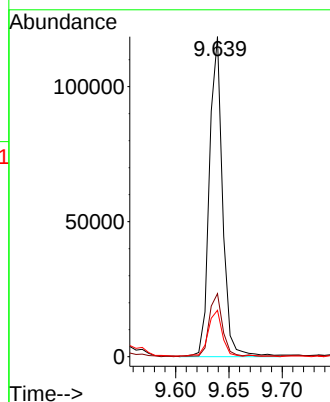
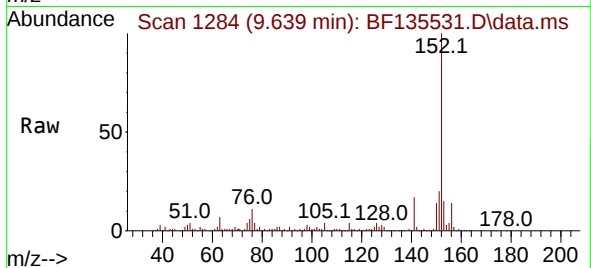
153 14.5 10.4 15.6

Manual Integrations

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Reviewed By :Yogesh Patel 10/03/2023

Supervised By :mohammad ahmed 10/04/2023



#52

Acenaphthene

Concen: 2.563 ng

RT: 9.810 min Scan# 1313

Delta R.T. -0.012 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

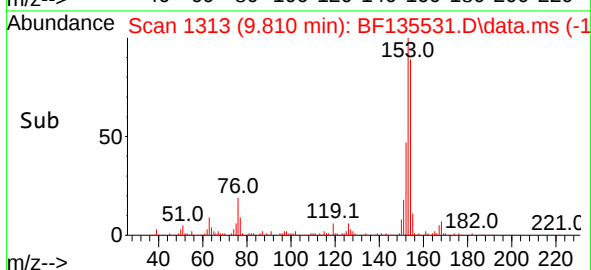
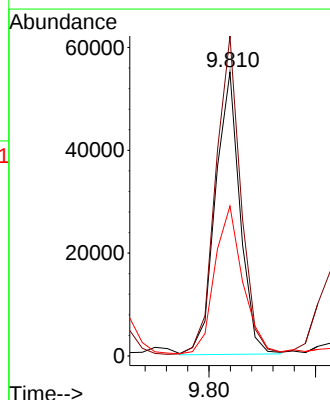
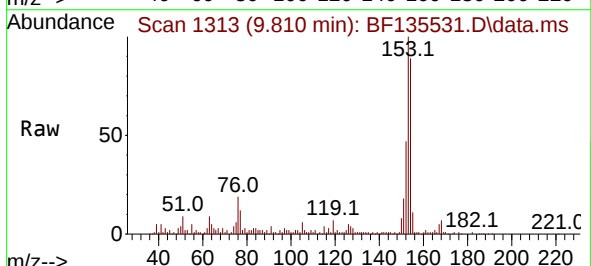
Tgt Ion:154 Resp: 44057

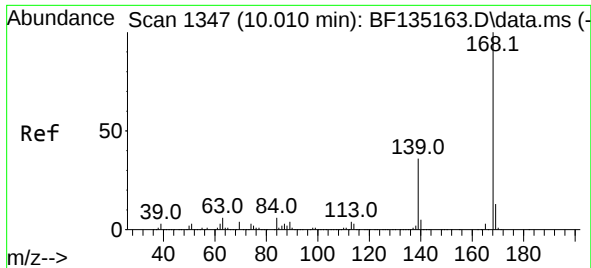
Ion Ratio Lower Upper

154 100

153 112.7 92.1 138.1

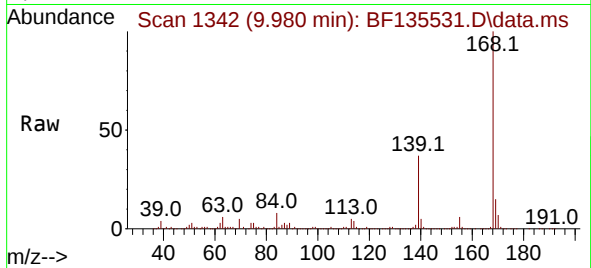
152 52.8 43.1 64.7





#55
Dibenzenofuran
Concen: 11.903 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

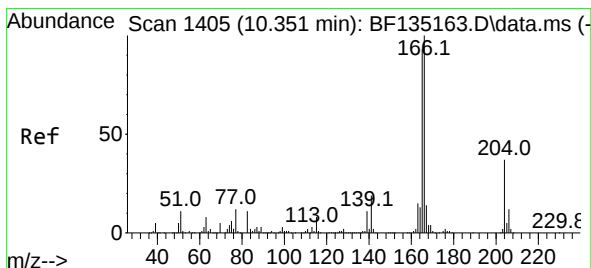
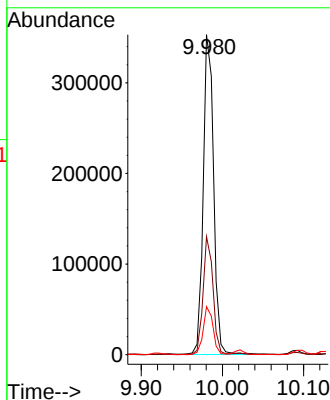
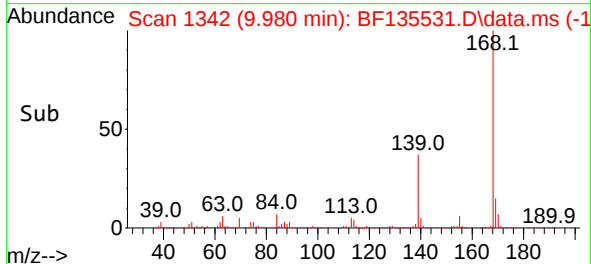
Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL



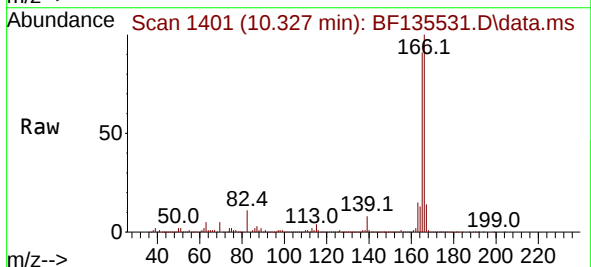
Tgt Ion:168 Resp: 31224
Ion Ratio Lower Upper
168 100
139 36.9 29.0 43.6
169 15.0 10.4 15.6

Manual Integrations
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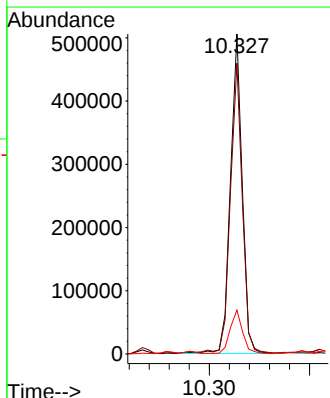
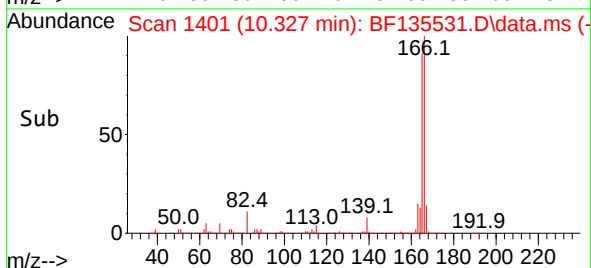
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023

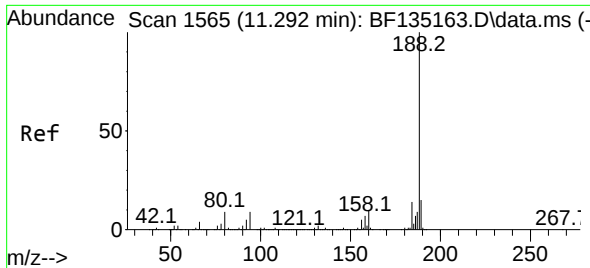


#58
Fluorene
Concen: 20.400 ng
RT: 10.327 min Scan# 1401
Delta R.T. -0.012 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10



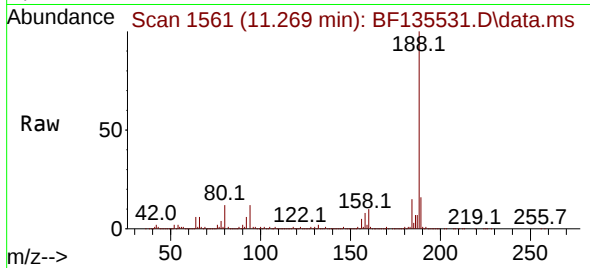
Tgt Ion:166 Resp: 411371
Ion Ratio Lower Upper
166 100
165 90.9 74.3 111.5
167 13.7 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

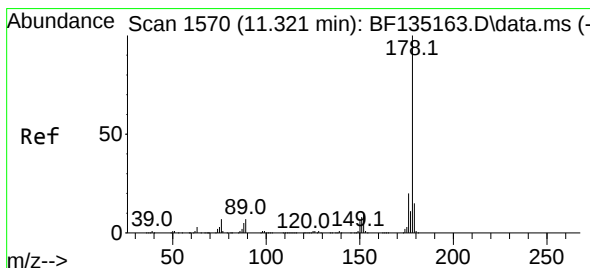
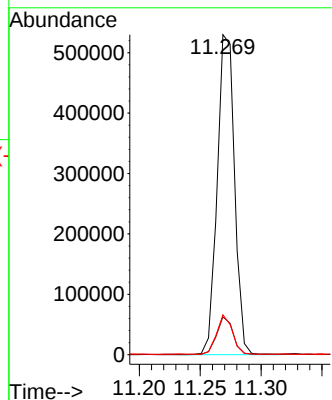
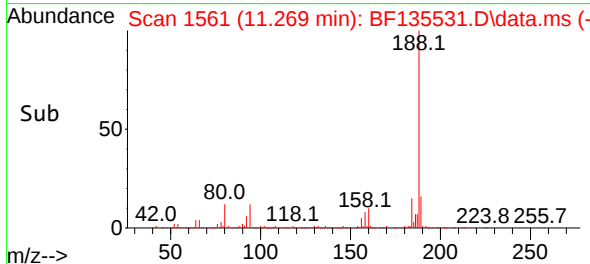
Instrument :
BNA_F
ClientSampleId :
1-1(0-5)DL



Tgt Ion:188 Resp: 52564
Ion Ratio Lower Upper
188 100
94 11.8 7.0 10.6
80 12.5 7.5 11.3

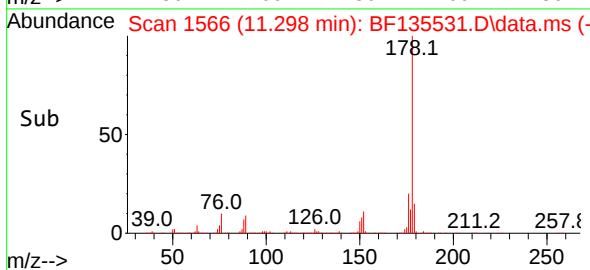
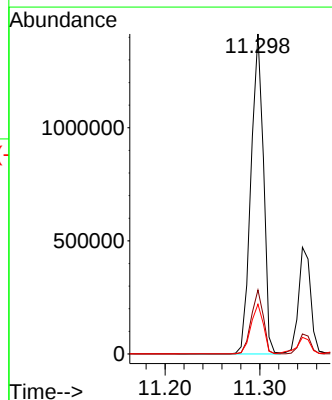
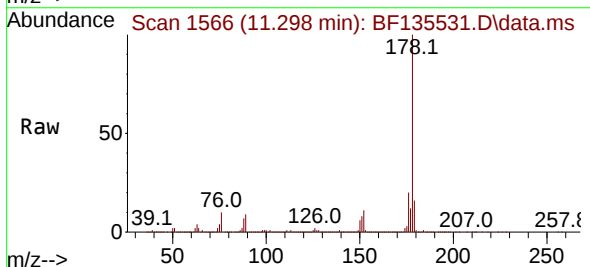
Manual Integrations
APPROVED

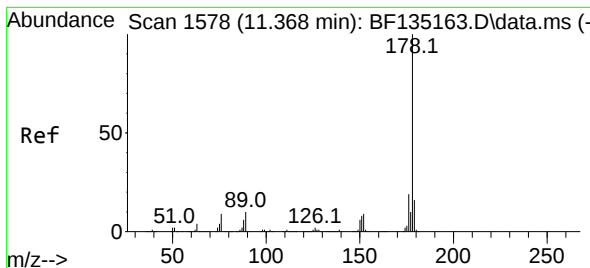
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023



#71
Phenanthrene
Concen: 52.092 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

Tgt Ion:178 Resp: 1295039
Ion Ratio Lower Upper
178 100
176 20.0 15.6 23.4
179 15.5 12.0 18.0





#72

Anthracene

Concen: 15.925 ng

RT: 11.345 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Instrument :

BNA_F

ClientSampleId :

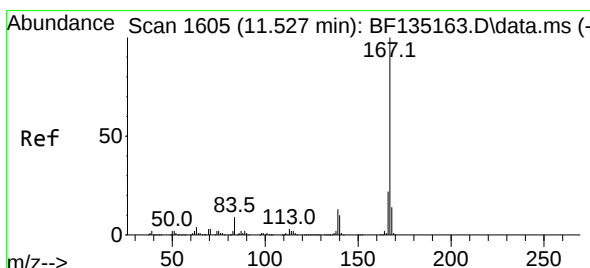
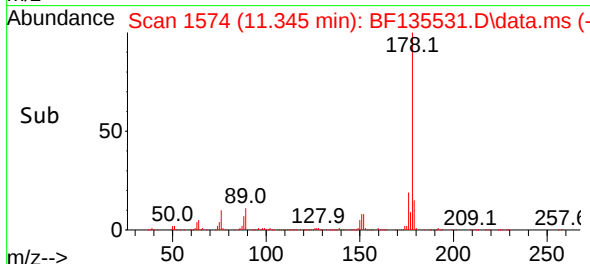
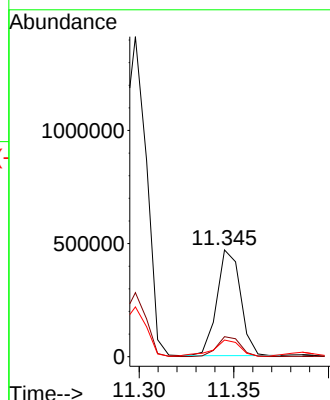
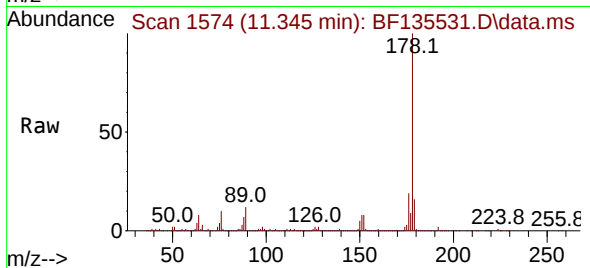
I-1(0-5)DL

Tgt Ion:178 Resp: 40694
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.2
 179 15.6 12.6 19.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/03/2023
 Supervised By :mohammad ahmed 10/04/2023



#73

Carbazole

Concen: 5.881 ng

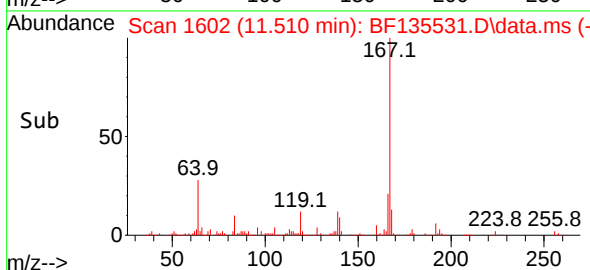
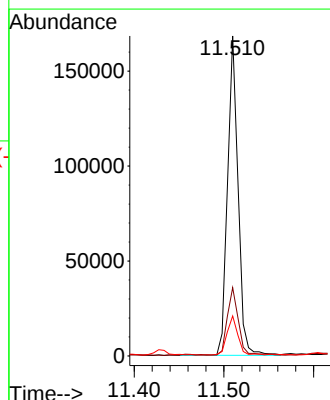
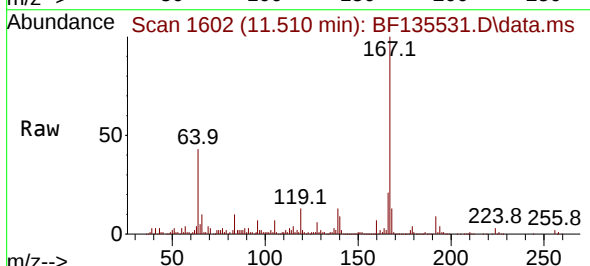
RT: 11.510 min Scan# 1602

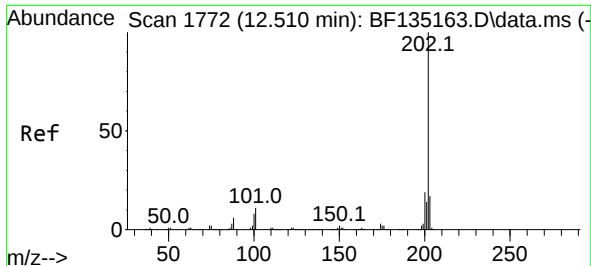
Delta R.T. -0.006 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

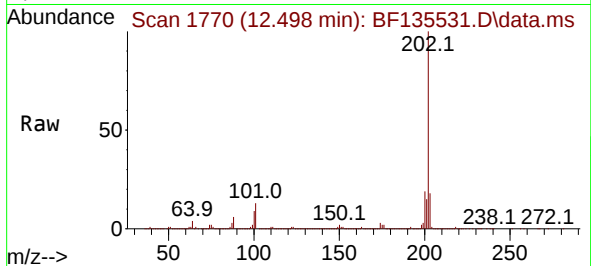
Tgt Ion:167 Resp: 136798
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.4 26.0
 139 12.5 10.6 15.8





#75
Fluoranthene
Concen: 36.435 ng
RT: 12.498 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

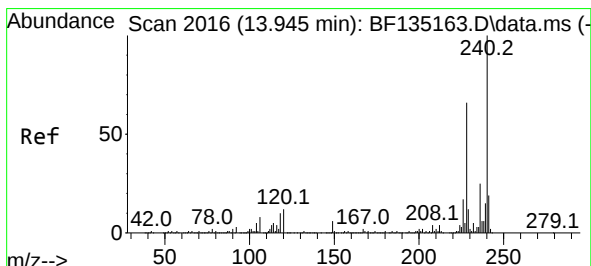
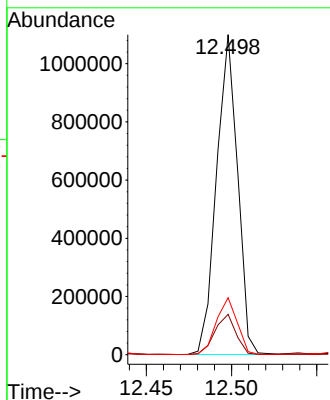
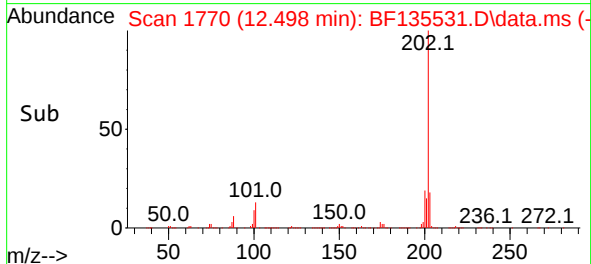
Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL



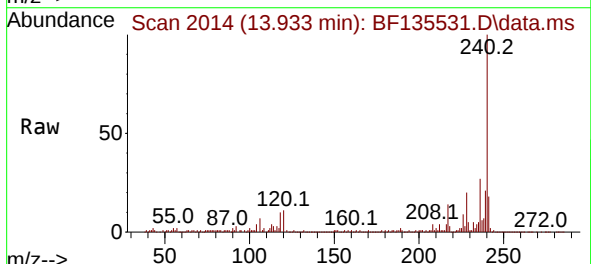
Tgt Ion:202 Resp: 943829
Ion Ratio Lower Upper
202 100
101 12.6 0.0 31.3
203 17.8 0.0 37.4

Manual Integrations
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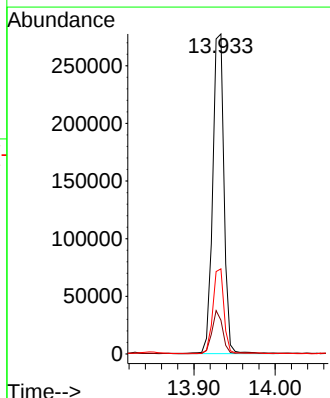
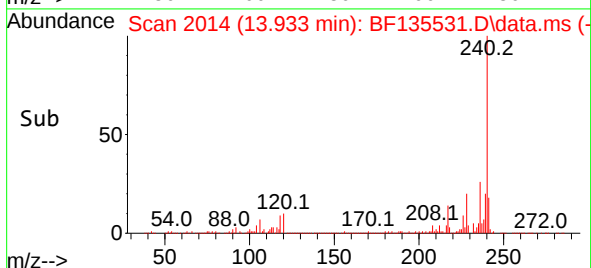
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023

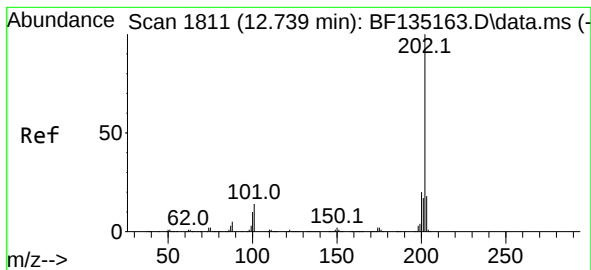


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10



Tgt Ion:240 Resp: 266772
Ion Ratio Lower Upper
240 100
120 10.6 9.4 14.2
236 26.6 19.8 29.8





#78

Pyrene

Concen: 31.712 ng

RT: 12.727 min Scan# 1809

Delta R.T. -0.000 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Instrument :

BNA_F

ClientSampleId :

I-1(0-5)DL

Tgt Ion:202 Resp: 80544

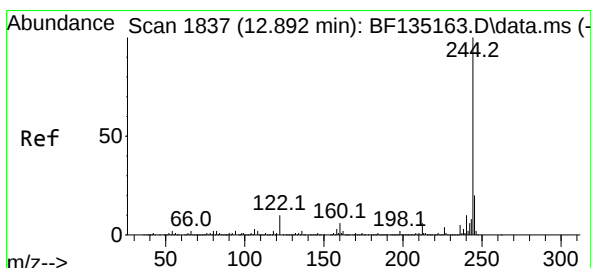
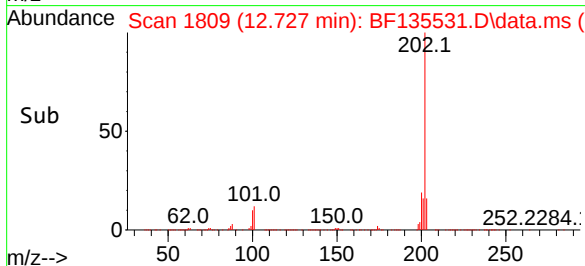
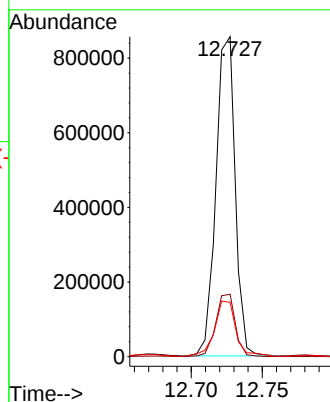
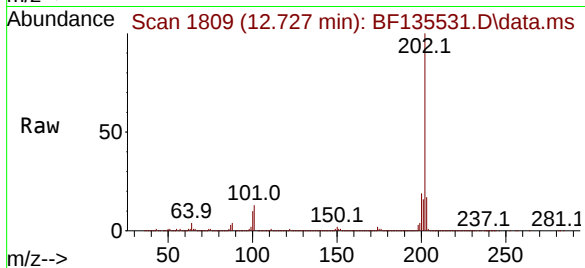
Ion	Ratio	Lower	Upper
202	100		
200	19.5	16.2	24.2
203	17.0	14.2	21.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/03/2023

Supervised By :mohammad ahmed 10/04/2023



#79

Terphenyl-d14

Concen: 12.185 ng

RT: 12.863 min Scan# 1832

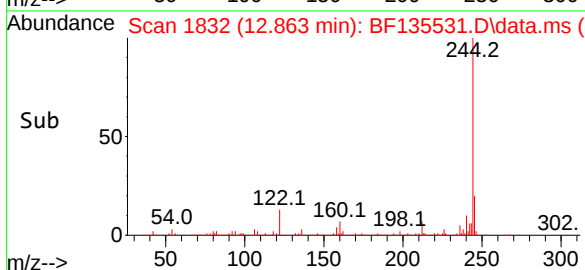
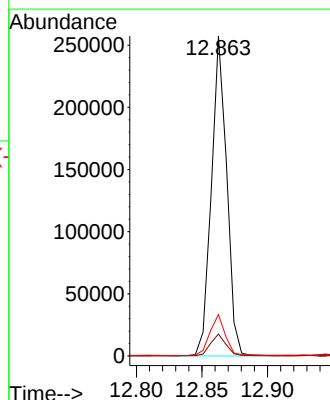
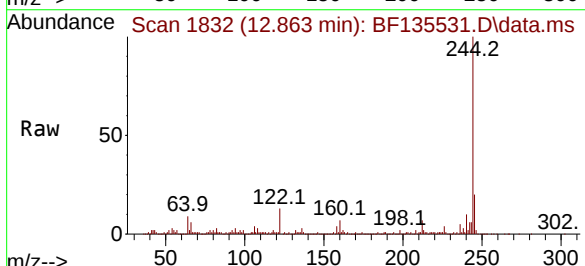
Delta R.T. -0.012 min

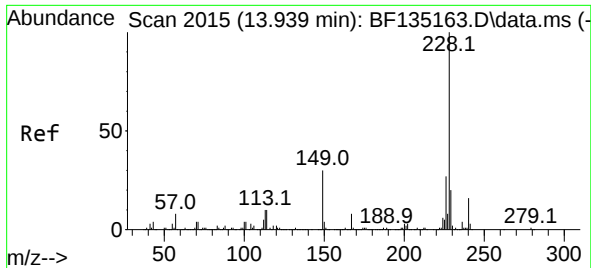
Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Tgt Ion:244 Resp: 209695

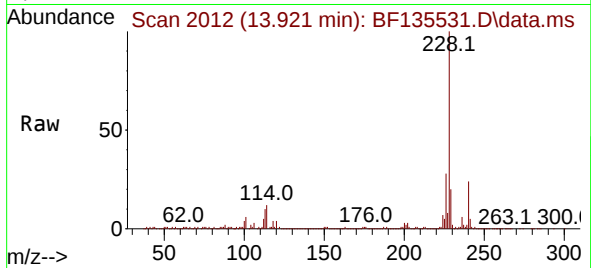
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.1	7.7
122	13.0	7.9	11.9





#81
Benzo(a)anthracene
Concen: 22.042 ng
RT: 13.921 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

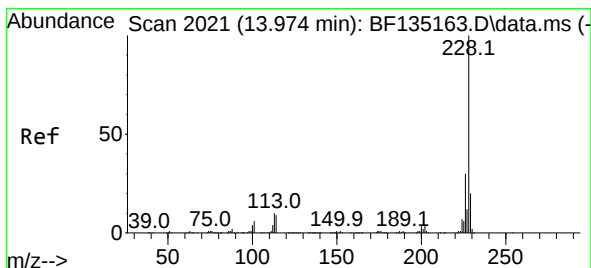
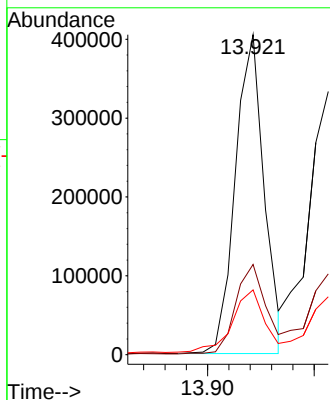
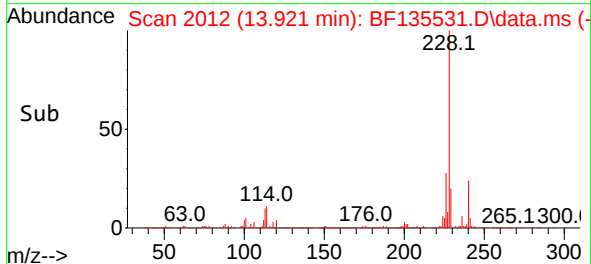
Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL



Tgt Ion:228 Resp: 37970
Ion Ratio Lower Upper
228 100
226 28.2 21.7 32.5
229 20.3 15.8 23.8

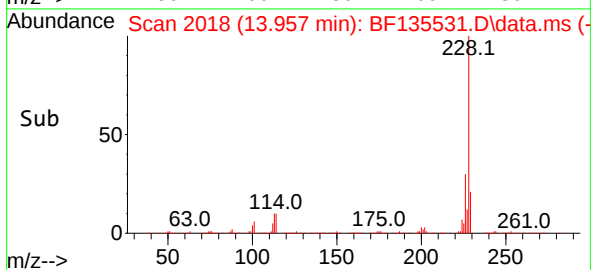
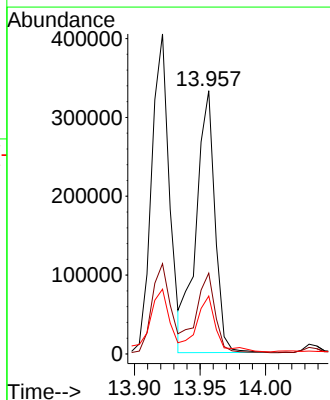
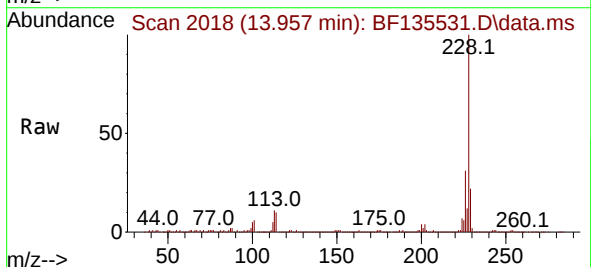
Manual Integrations
APPROVED

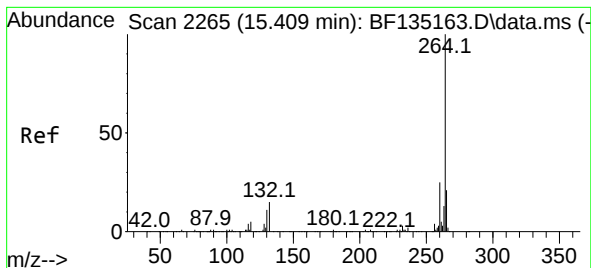
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023



#83
Chrysene
Concen: 19.390 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

Tgt Ion:228 Resp: 332085
Ion Ratio Lower Upper
228 100
226 30.7 24.3 36.5
229 22.0 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.392 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

Instrument :

BNA_F

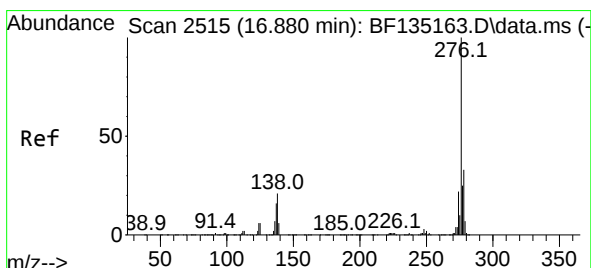
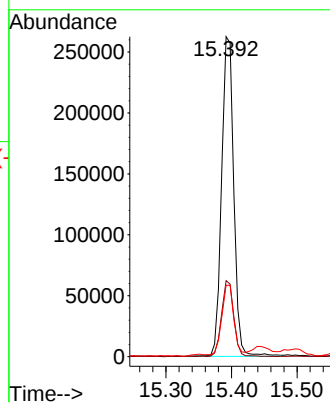
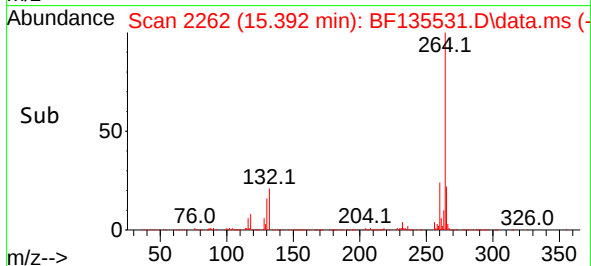
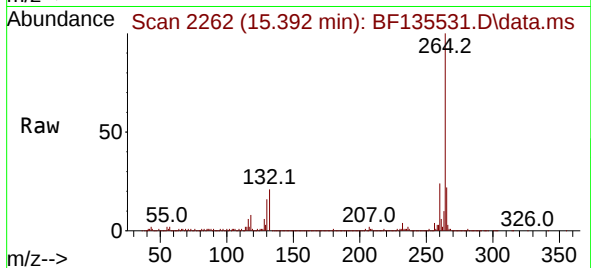
ClientSampleId :

1-1(0-5)DL

Tgt Ion:264 Resp: 336188
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.8 29.6
 265 22.3 17.0 25.4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/03/2023
 Supervised By :mohammad ahmed 10/04/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.764 ng

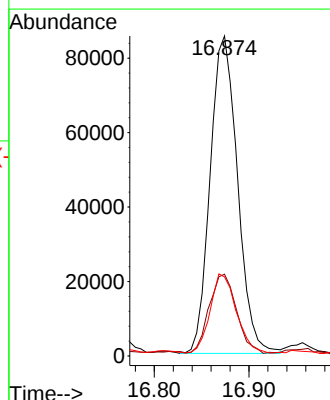
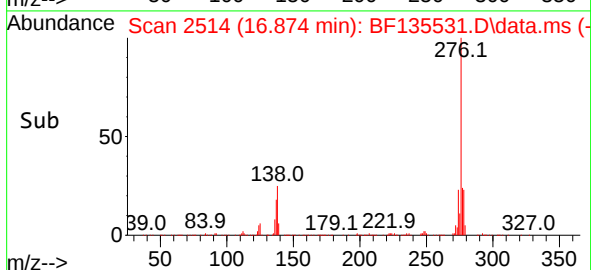
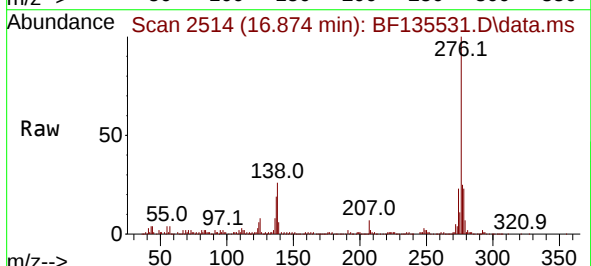
RT: 16.874 min Scan# 2514

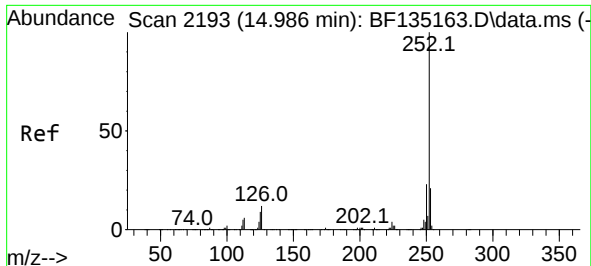
Delta R.T. -0.006 min

Lab File: BF135531.D

Acq: 02 Oct 2023 17:10

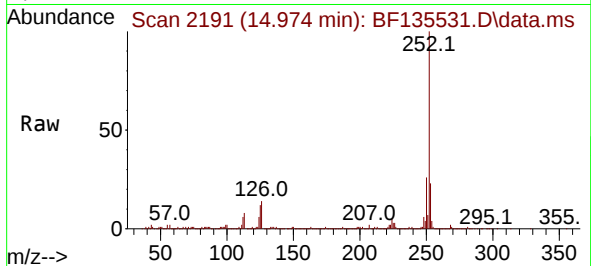
Tgt Ion:276 Resp: 171137
 Ion Ratio Lower Upper
 276 100
 138 24.4 19.2 28.8
 277 24.1 19.7 29.5





#88
Benzo(b)fluoranthene
Concen: 19.799 ng m
RT: 14.974 min Scan# 2193
Delta R.T. 0.006 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

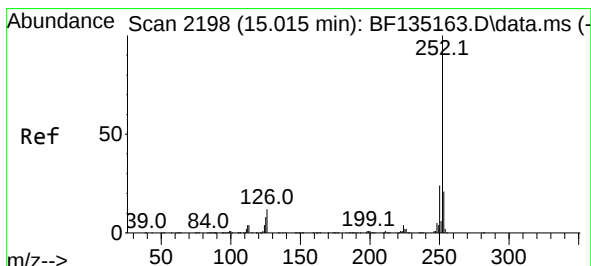
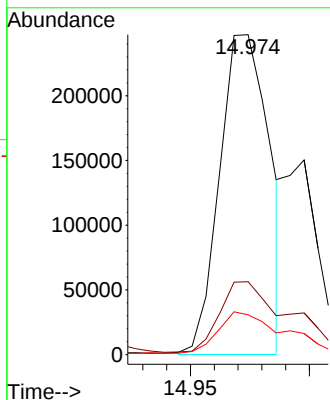
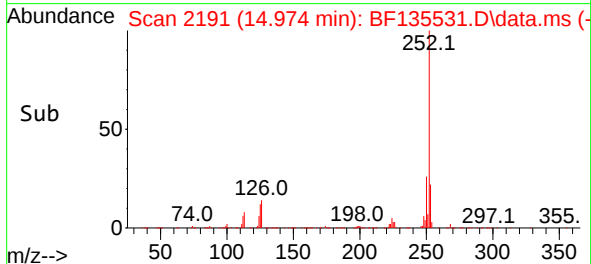
Instrument :
BNA_F
ClientSampleId :
1-1(0-5)DL



Tgt Ion:252 Resp: 360328
Ion Ratio Lower Upper
252 100
253 22.8 17.2 25.8
125 12.5 7.1 10.7

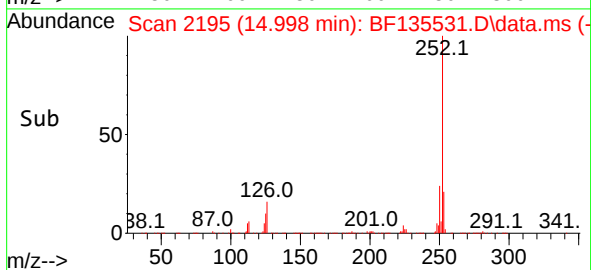
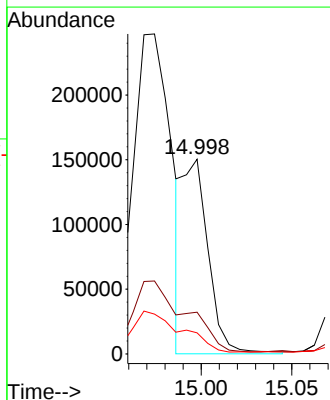
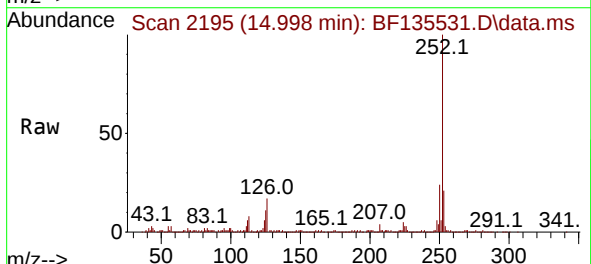
Manual Integrations
APPROVED

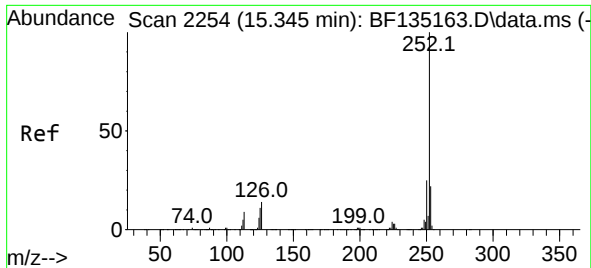
Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023



#89
Benzo(k)fluoranthene
Concen: 8.070 ng m
RT: 14.998 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

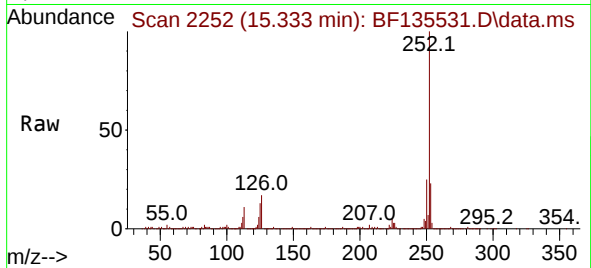
Tgt Ion:252 Resp: 145084
Ion Ratio Lower Upper
252 100
253 21.5 17.4 26.0
125 10.9 7.2 10.8





#90
Benzo(a)pyrene
Concen: 17.466 ng
RT: 15.333 min Scan# 211
Delta R.T. -0.000 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

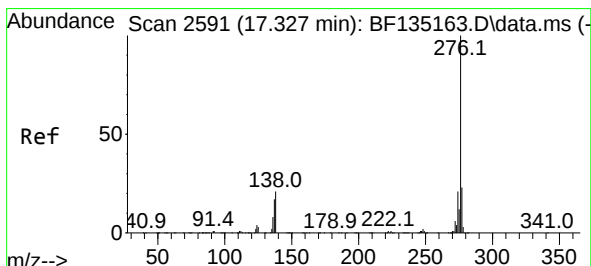
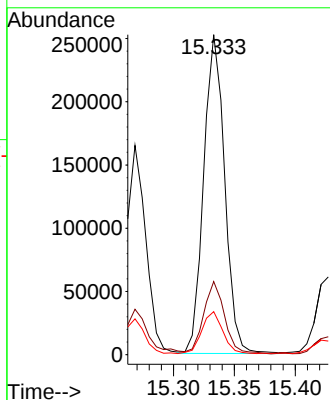
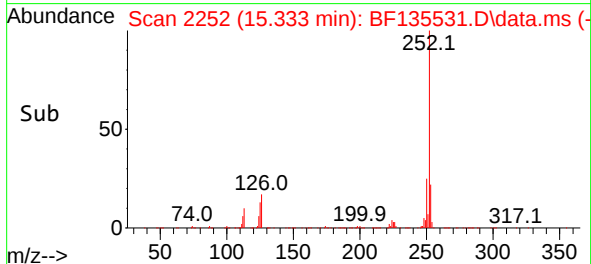
Instrument :
BNA_F
ClientSampleId :
I-1(0-5)DL



Tgt Ion:252 Resp: 30313
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 13.4 9.2 13.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/03/2023
Supervised By :mohammad ahmed 10/04/2023



#92
Benzo(g,h,i)perylene
Concen: 8.324 ng
RT: 17.321 min Scan# 2590
Delta R.T. -0.000 min
Lab File: BF135531.D
Acq: 02 Oct 2023 17:10

Tgt Ion:276 Resp: 156784
Ion Ratio Lower Upper
276 100
277 23.4 18.8 28.2
138 25.3 16.9 25.3#

