

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102723\
 Data File : BF135996.D
 Acq On : 27 Oct 2023 21:10
 Operator : CG\JU
 Sample : 04767-07
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023

Quant Time: Oct 27 22:36:20 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	166443	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	617941	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	278140	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	443973	20.000	ng	0.00
76) Chrysene-d12	14.010	240	332412	20.000	ng	0.00
86) Perylene-d12	15.504	264	245431	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	935938	86.831	ng	0.00
7) Phenol-d6	6.457	99	1199277	89.370	ng	0.00
23) Nitrobenzene-d5	7.386	82	679753	72.644	ng	0.00
42) 2,4,6-Tribromophenol	10.651	330	180102	73.978	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	1245604	71.709	ng	0.00
79) Terphenyl-d14	12.957	244	1218499	61.244	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.128	128	125627	4.205	ng	97
37) 2-Methylnaphthalene	8.816	142	42310	2.140	ng	96
52) Acenaphthene	9.892	154	31974	2.029	ng	100
55) Dibenzofuran	10.069	168	68447	3.006	ng	95
58) Fluorene	10.410	166	84588	4.966	ng	99
71) Phenanthrene	11.380	178	597287	26.591	ng	99
72) Anthracene	11.427	178	171489	7.456	ng	99
73) Carbazole	11.586	167	61542	3.000	ng	100
75) Fluoranthene	12.574	202	720987	30.510	ng	99
78) Pyrene	12.804	202	649104	23.256	ng	99
81) Benzo(a)anthracene	13.998	228	325968	14.422	ng	96
83) Chrysene	14.033	228	286530	13.016	ng	97
87) Indeno(1,2,3-cd)pyrene	17.009	276	110463	7.937	ng	94
88) Benzo(b)fluoranthene	15.062	252	282060m	19.311	ng	
89) Benzo(k)fluoranthene	15.086	252	95409m	6.651	ng	
90) Benzo(a)pyrene	15.433	252	197252	14.653	ng	96
91) Dibenzo(a,h)anthracene	17.027	278	27406	2.302	ng #	83
92) Benzo(g,h,i)perylene	17.468	276	105265	10.926	ng	98

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

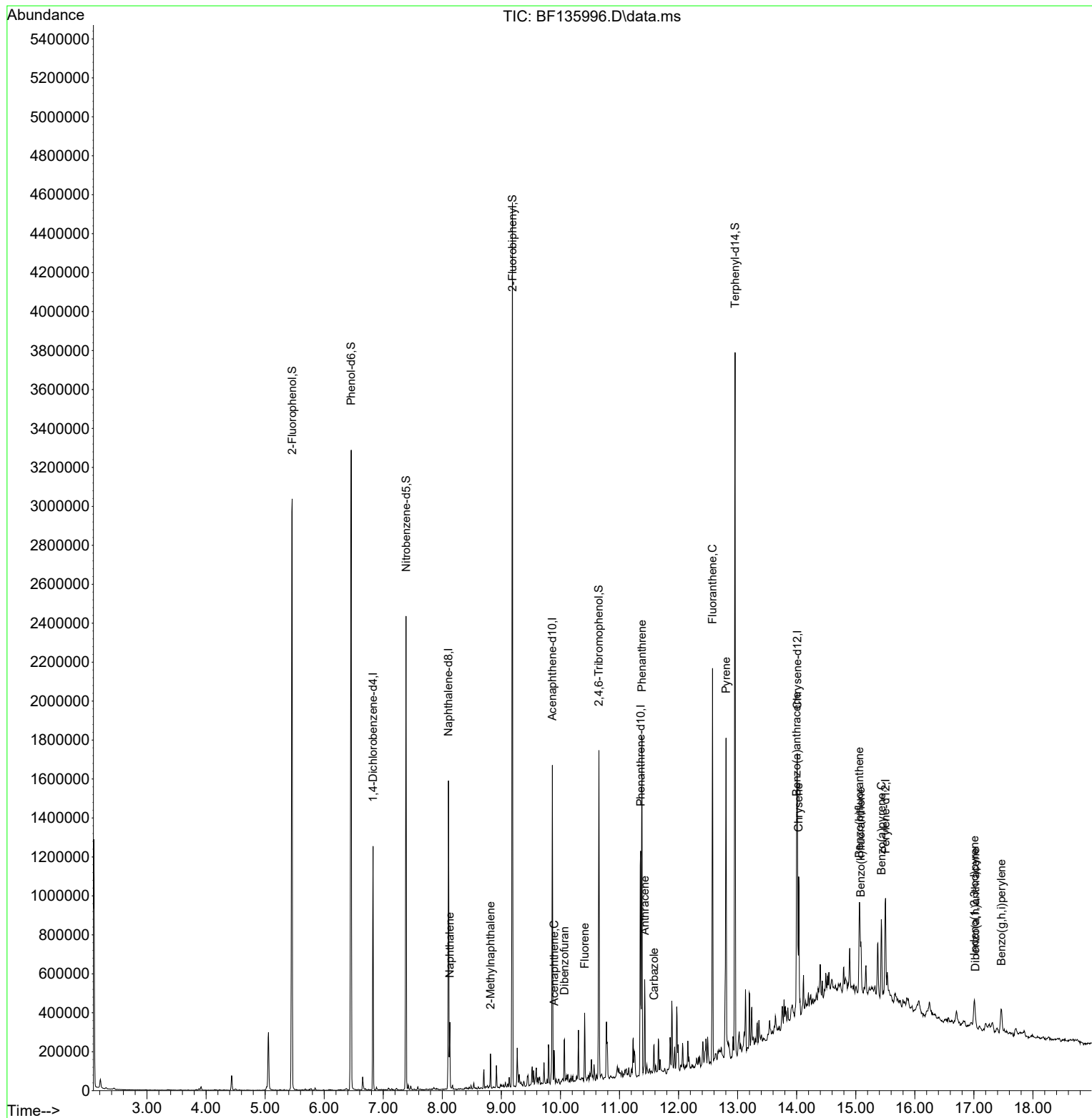
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102723\
Data File : BF135996.D
Acq On : 27 Oct 2023 21:10
Operator : CG\JU
Sample : 04767-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

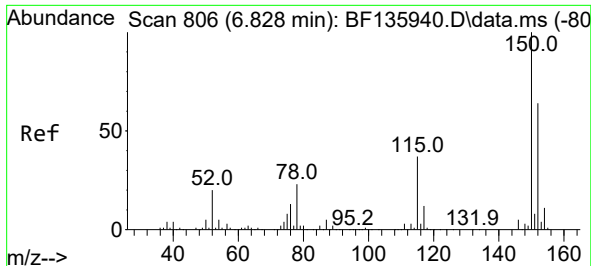
Instrument :
BNA_F
ClientSampleId :
C-1(0-5)

Quant Time: Oct 27 22:36:20 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

Manual Integrations
APPROVED

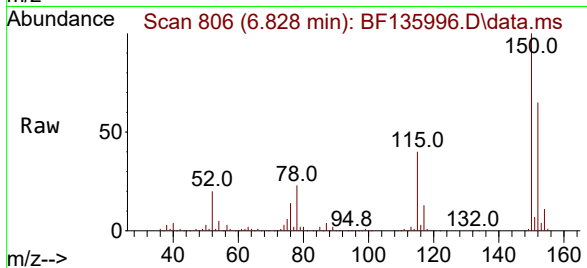
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

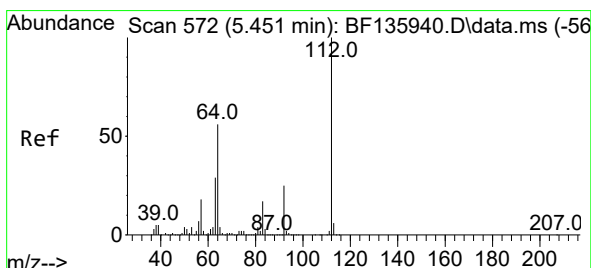
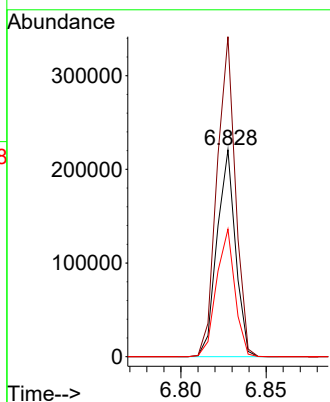
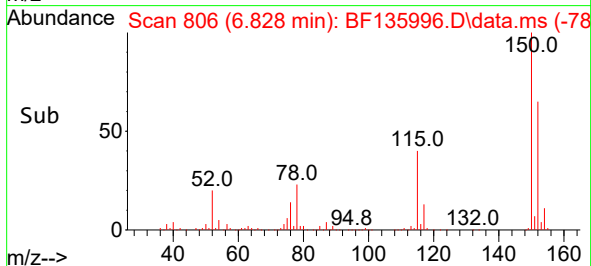
Instrument :
BNA_F
ClientSampleId :
C-1(0-5)



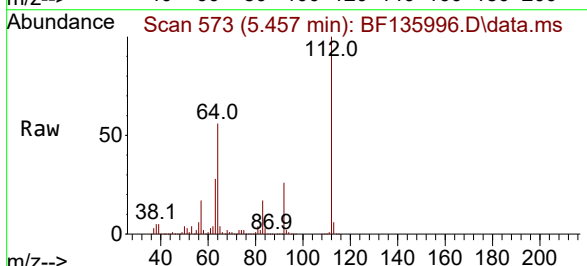
Tgt Ion:152 Resp: 16644
Ion Ratio Lower Upper
152 100
150 154.7 124.6 186.8
115 61.7 46.6 69.8

Manual Integrations
APPROVED

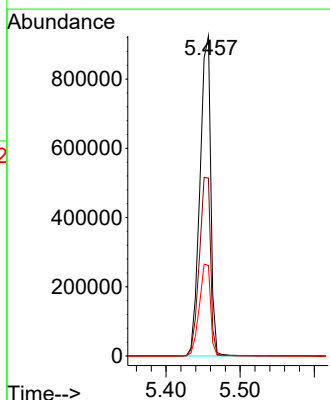
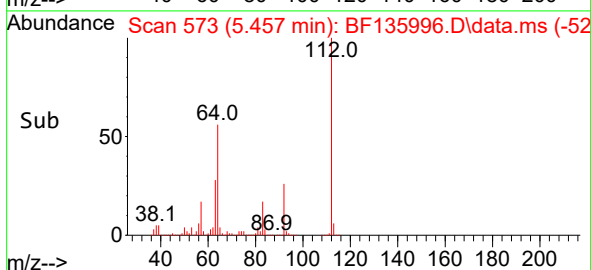
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

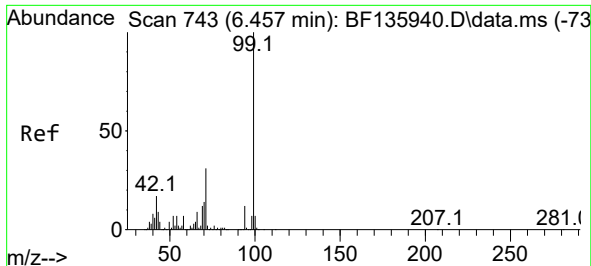


#5
2-Fluorophenol
Concen: 86.831 ng
RT: 5.457 min Scan# 573
Delta R.T. 0.006 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10



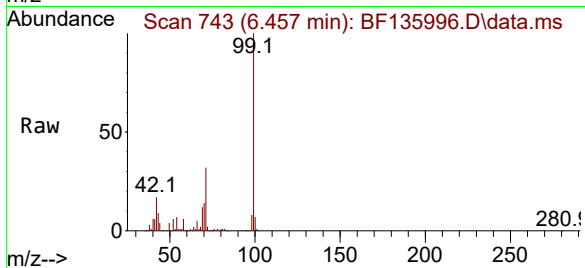
Tgt Ion:112 Resp: 935938
Ion Ratio Lower Upper
112 100
64 55.6 45.1 67.7
63 28.3 23.0 34.4





#7
Phenol-d6
Concen: 89.370 ng
RT: 6.457 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

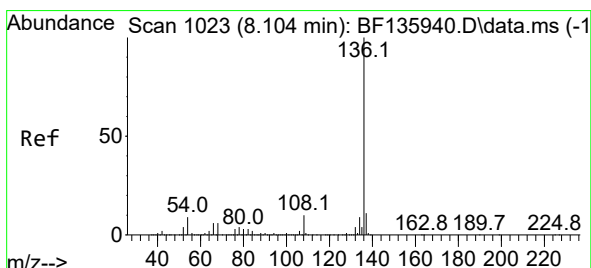
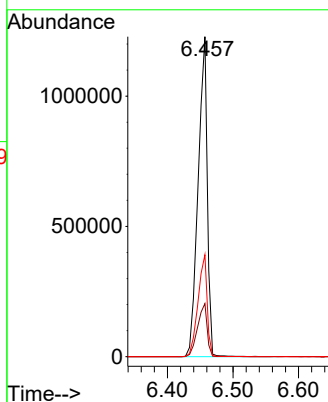
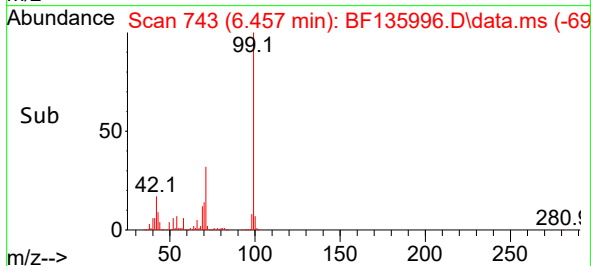
Instrument :
BNA_F
ClientSampleId :
C-1(0-5)



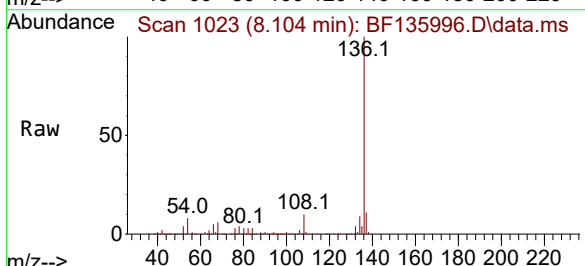
Tgt Ion: 99 Resp: 119927
Ion Ratio Lower Upper
99 100
42 16.6 13.8 20.8
71 31.9 25.1 37.7

Manual Integrations
APPROVED

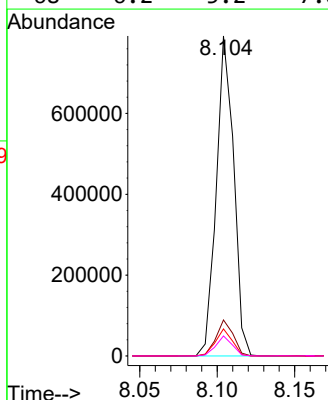
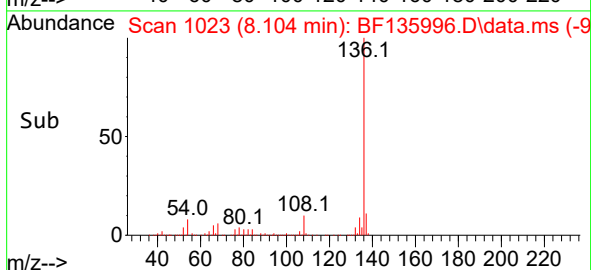
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

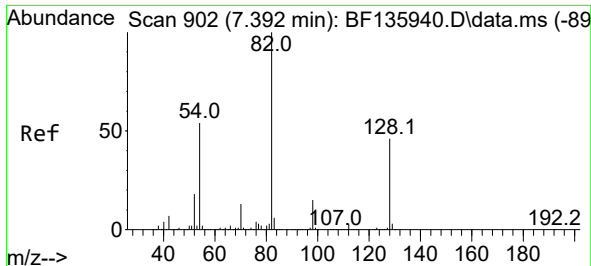


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10



Tgt Ion:136 Resp: 617941
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.6
54 8.5 7.1 10.7
68 6.2 5.2 7.8





#23

Nitrobenzene-d5

Concen: 72.644 ng

RT: 7.386 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Instrument :

BNA_F

ClientSampleId :

C-1(0-5)

Tgt Ion: 82 Resp: 67975

Ion Ratio Lower Upper

82 100

128 46.6 36.8 55.2

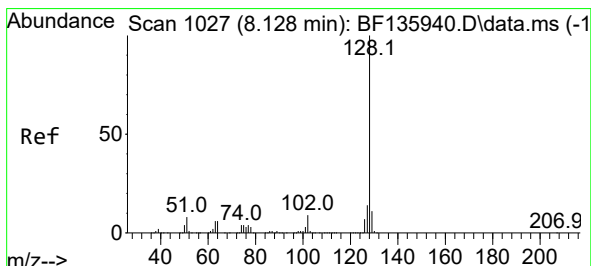
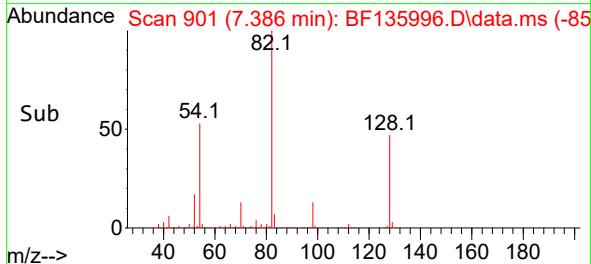
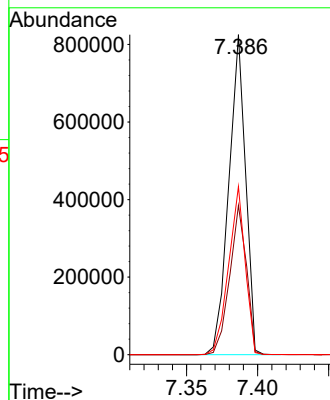
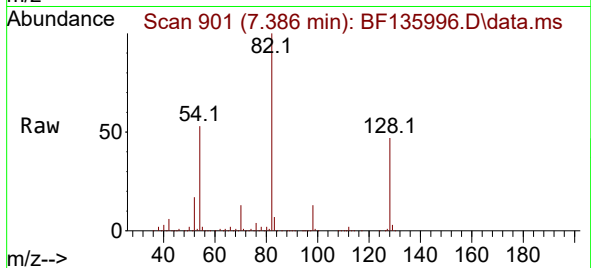
54 52.5 43.4 65.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#31

Naphthalene

Concen: 4.205 ng

RT: 8.128 min Scan# 1027

Delta R.T. -0.000 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

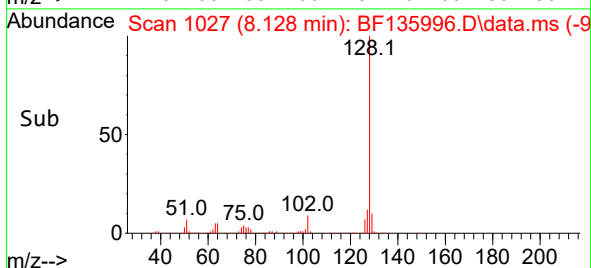
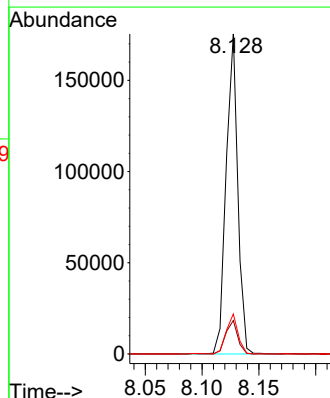
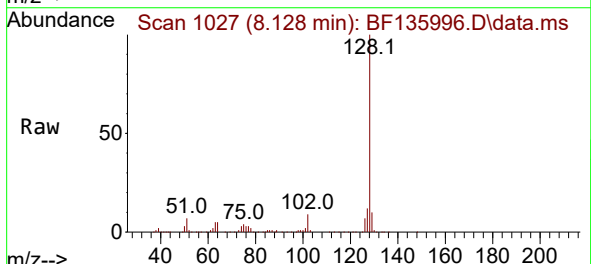
Tgt Ion:128 Resp: 125627

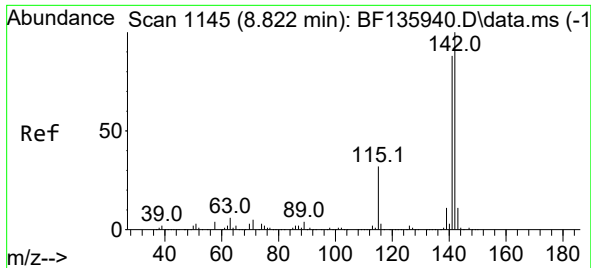
Ion Ratio Lower Upper

128 100

129 10.5 9.0 13.6

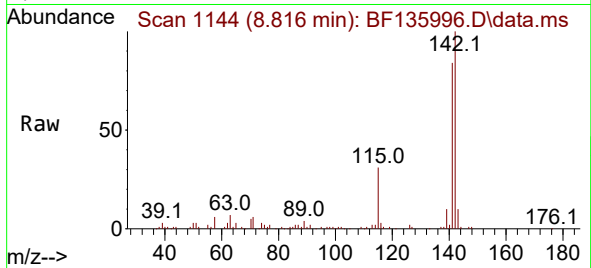
127 12.5 10.9 16.3





#37
2-Methylnaphthalene
Concen: 2.140 ng
RT: 8.816 min Scan# 1144
Delta R.T. -0.006 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

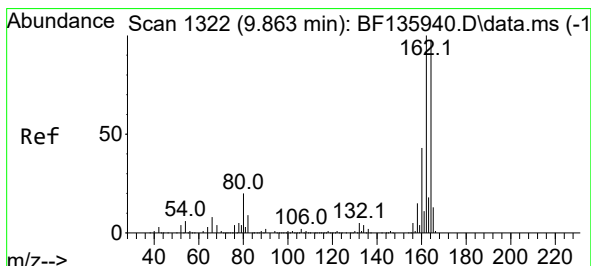
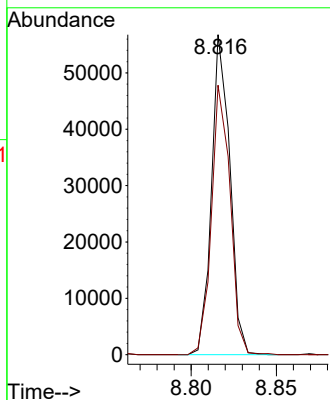
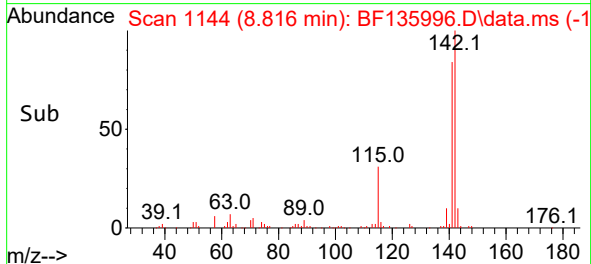
Instrument :
BNA_F
ClientSampleId :
C-1(0-5)



Tgt Ion:142 Resp: 42310
Ion Ratio Lower Upper
142 100
141 84.2 70.4 105.6

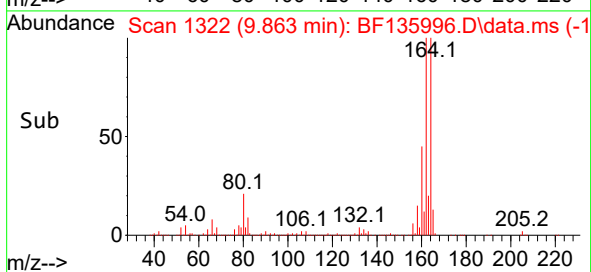
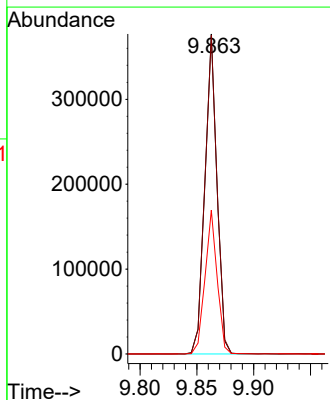
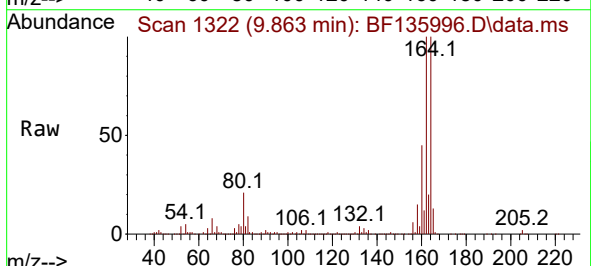
Manual Integrations
APPROVED

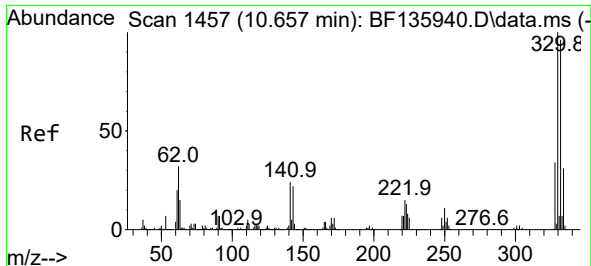
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

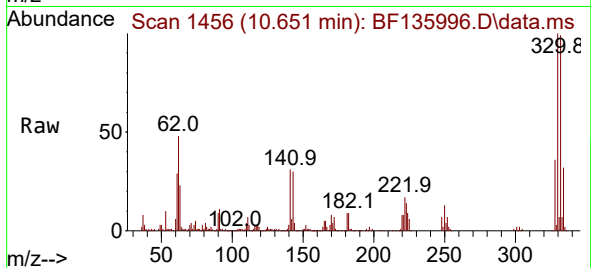
Tgt Ion:164 Resp: 278140
Ion Ratio Lower Upper
164 100
162 99.6 82.0 123.0
160 44.9 35.6 53.4





#42
2,4,6-Tribromophenol
Concen: 73.978 ng
RT: 10.651 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

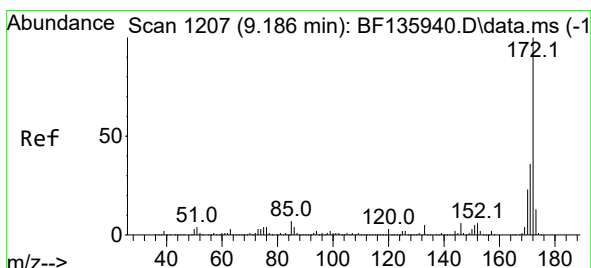
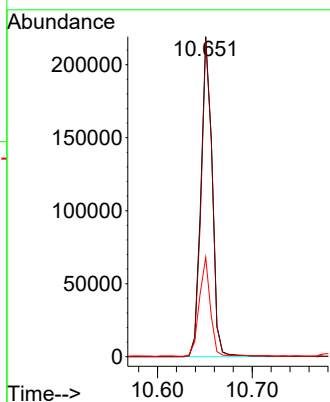
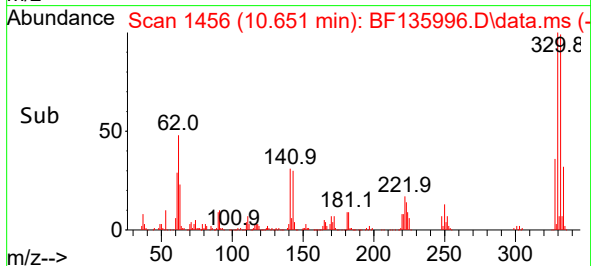
Instrument :
BNA_F
ClientSampleId :
C-1(0-5)



Tgt Ion: 330 Resp: 180102
Ion Ratio Lower Upper
330 100
332 97.8 77.4 116.2
141 30.1 24.9 37.3

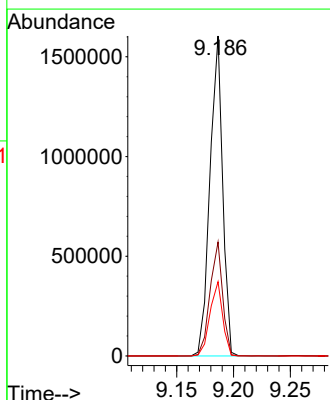
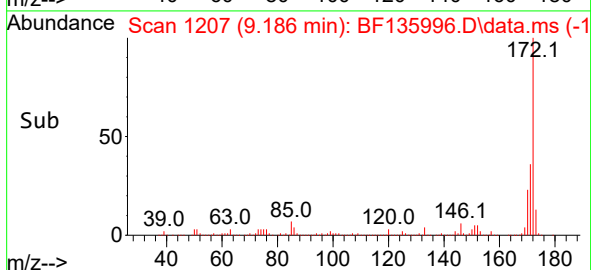
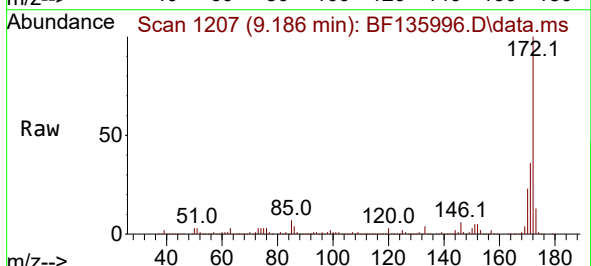
Manual Integrations
APPROVED

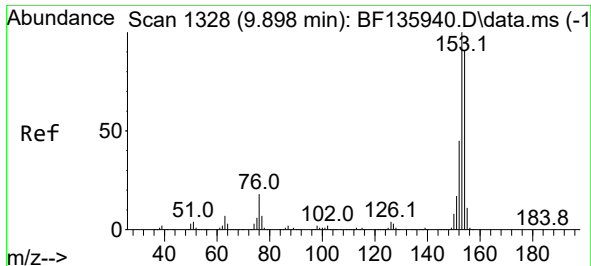
Reviewed By : Yogesh Patel 10/28/2023
Supervised By : mohammad ahmed 10/28/2023



#45
2-Fluorobiphenyl
Concen: 71.709 ng
RT: 9.186 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

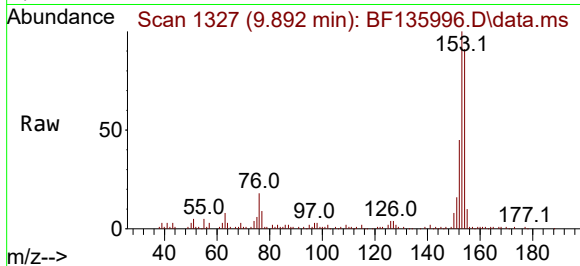
Tgt Ion: 172 Resp: 1245604
Ion Ratio Lower Upper
172 100
171 35.6 28.6 43.0
170 23.2 18.6 28.0





#52
Acenaphthene
Concen: 2.029 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

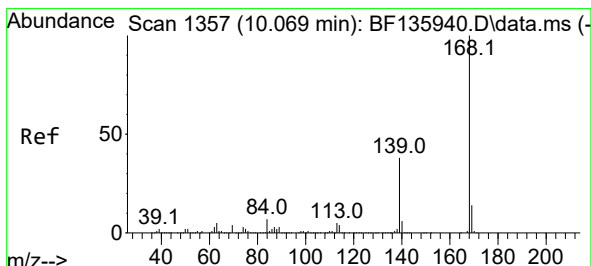
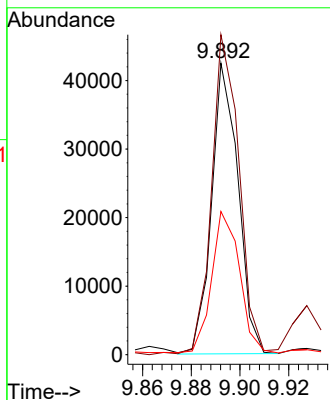
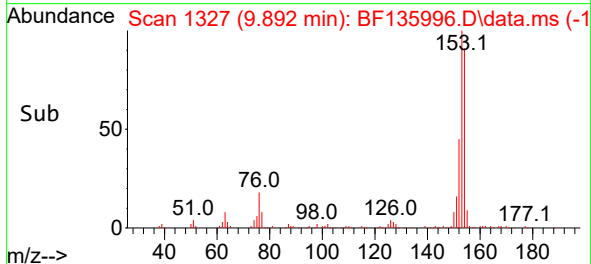
Instrument :
BNA_F
ClientSampleId :
C-1(0-5)



Tgt Ion:154 Resp: 31974
Ion Ratio Lower Upper
154 100
153 109.8 88.0 132.0
152 49.1 39.4 59.2

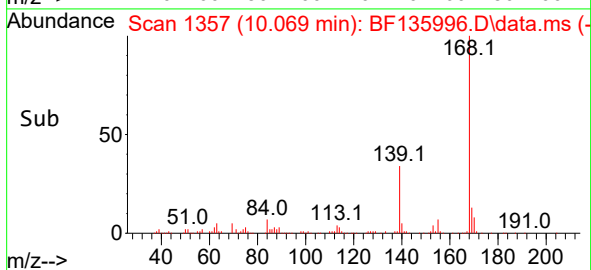
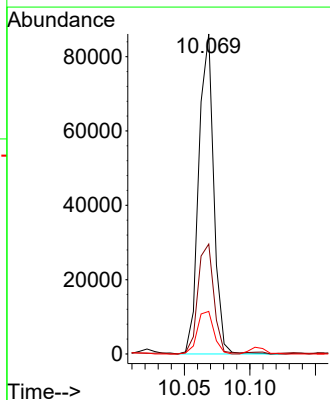
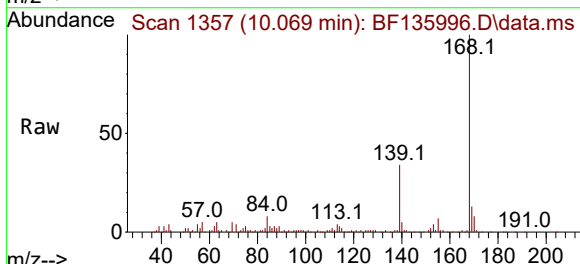
Manual Integrations
APPROVED

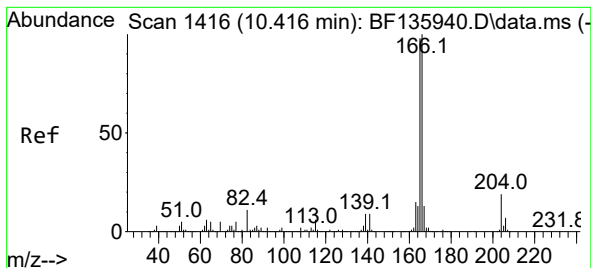
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023



#55
Dibenzofuran
Concen: 3.006 ng
RT: 10.069 min Scan# 1357
Delta R.T. -0.000 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

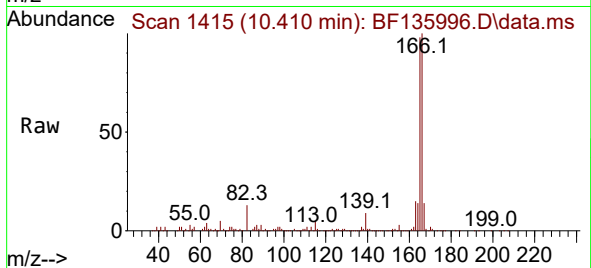
Tgt Ion:168 Resp: 68447
Ion Ratio Lower Upper
168 100
139 34.4 30.7 46.1
169 13.3 11.1 16.7





#58
Fluorene
Concen: 4.966 ng
RT: 10.410 min Scan# 1416
Delta R.T. -0.006 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

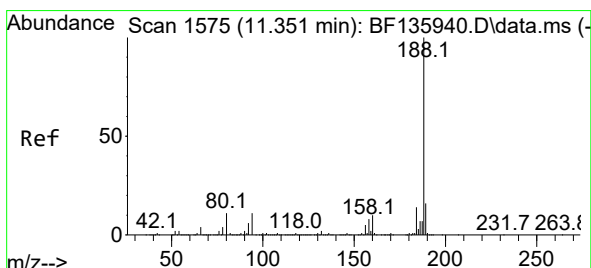
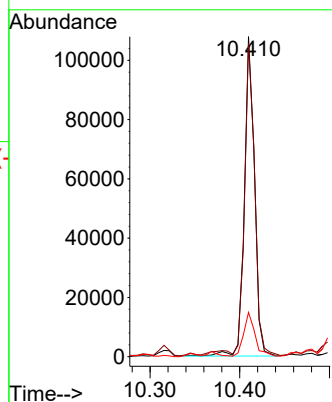
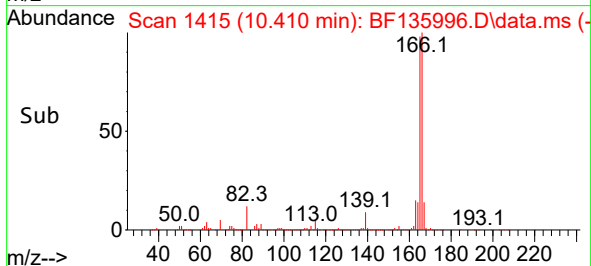
Instrument :
BNA_F
ClientSampleId :
C-1(0-5)



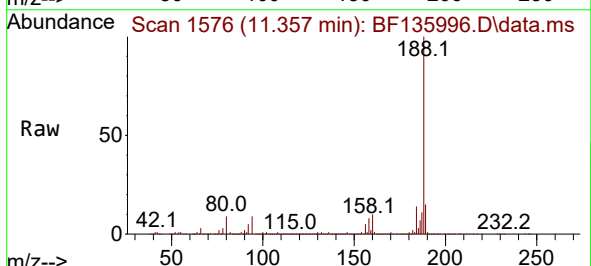
Tgt Ion:166 Resp: 84588
Ion Ratio Lower Upper
166 100
165 98.0 78.0 117.0
167 13.8 10.6 16.0

Manual Integrations
APPROVED

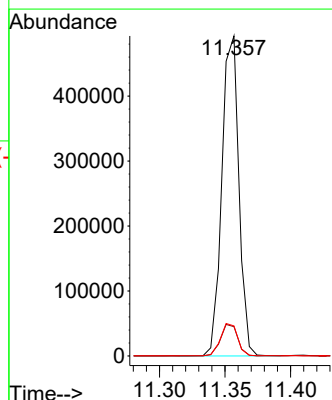
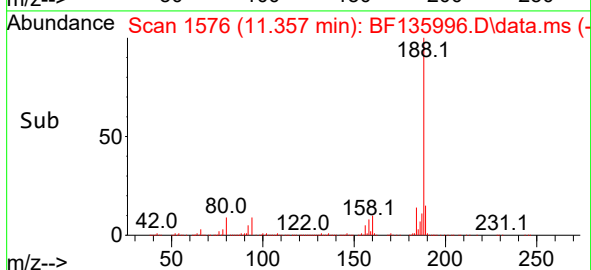
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

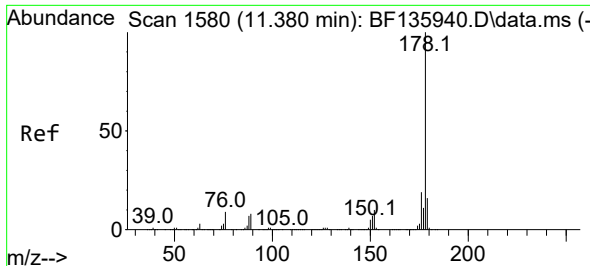


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. 0.006 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10



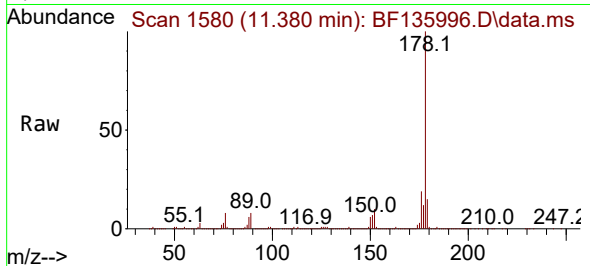
Tgt Ion:188 Resp: 443973
Ion Ratio Lower Upper
188 100
94 9.1 8.6 13.0
80 9.4 9.0 13.6





#71
Phenanthrene
Concen: 26.591 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10

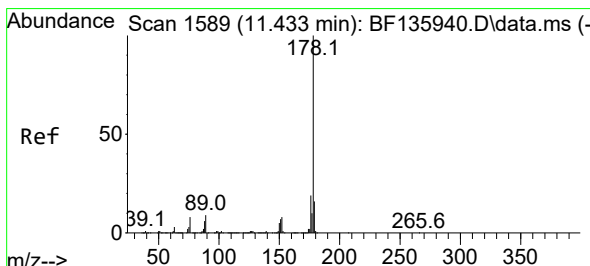
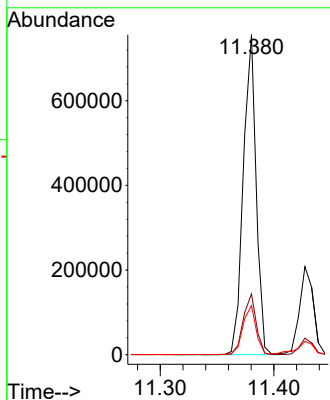
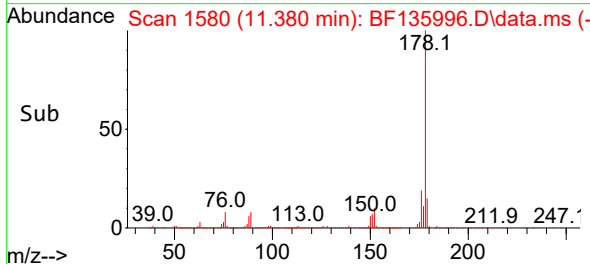
Instrument :
BNA_F
ClientSampleId :
C-1(0-5)



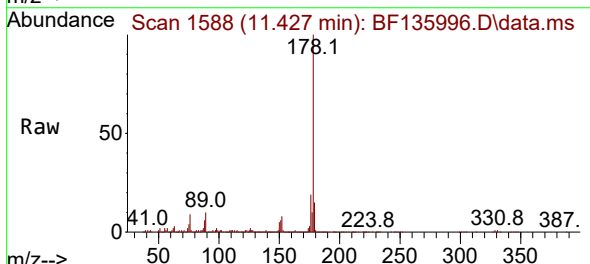
Tgt Ion:178 Resp: 59728
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.4 12.5 18.7

Manual Integrations
APPROVED

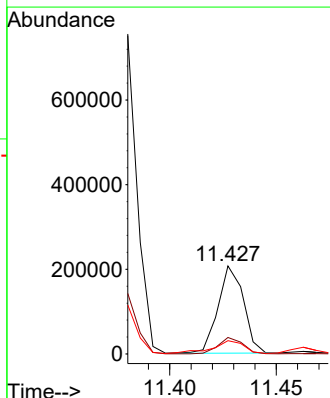
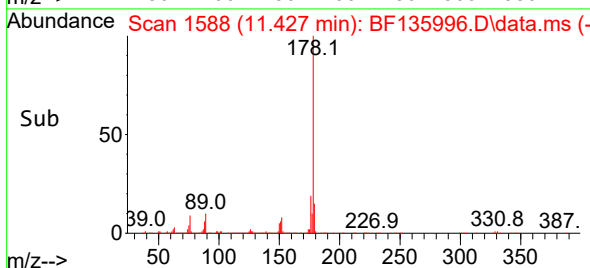
Reviewed By :Yogesh Patel 10/28/2023
Supervised By :mohammad ahmed 10/28/2023

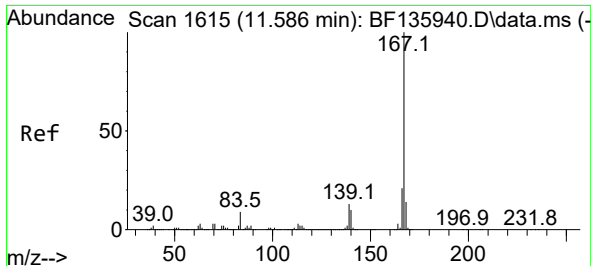


#72
Anthracene
Concen: 7.456 ng
RT: 11.427 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF135996.D
Acq: 27 Oct 2023 21:10



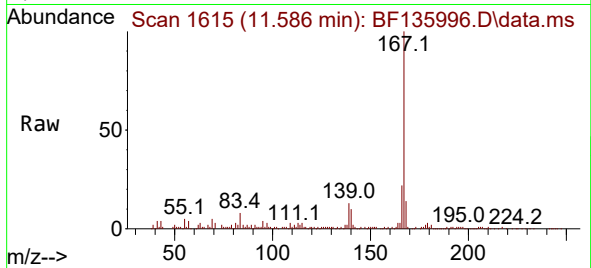
Tgt Ion:178 Resp: 171489
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.2 12.5 18.7





#73
 Carbazole
 Concen: 3.000 ng
 RT: 11.586 min Scan# 1615
 Delta R.T. -0.000 min
 Lab File: BF135996.D
 Acq: 27 Oct 2023 21:10

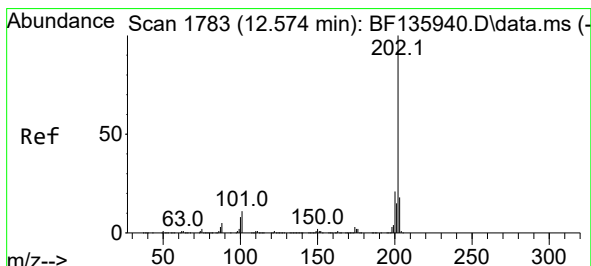
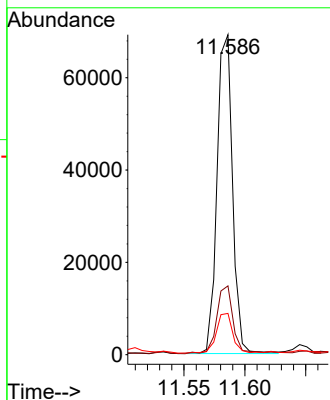
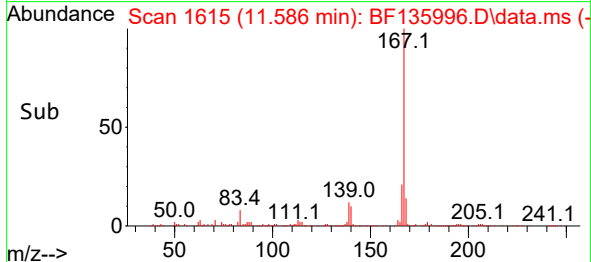
Instrument :
 BNA_F
 ClientSampleId :
 C-1(0-5)



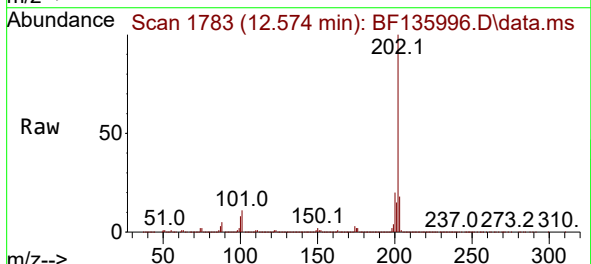
Tgt Ion:167 Resp: 61542
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.0 25.6
 139 12.9 10.4 15.6

Manual Integrations
 APPROVED

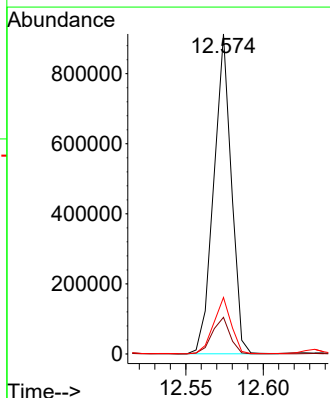
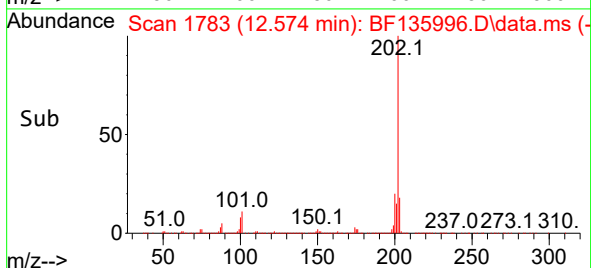
Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023

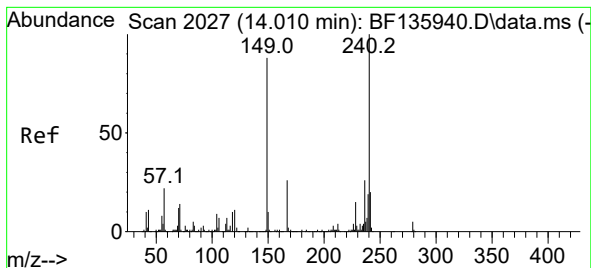


#75
 Fluoranthene
 Concen: 30.510 ng
 RT: 12.574 min Scan# 1783
 Delta R.T. -0.000 min
 Lab File: BF135996.D
 Acq: 27 Oct 2023 21:10



Tgt Ion:202 Resp: 720987
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 30.6
 203 17.7 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2027

Delta R.T. -0.000 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Instrument :

BNA_F

ClientSampleId :

C-1(0-5)

Tgt Ion:240 Resp: 33241

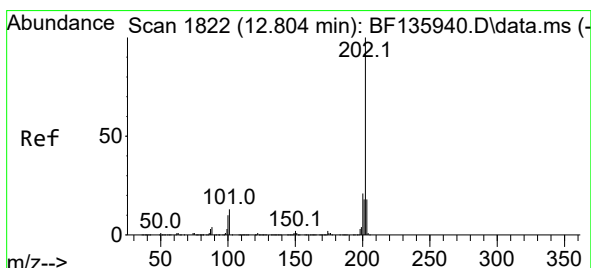
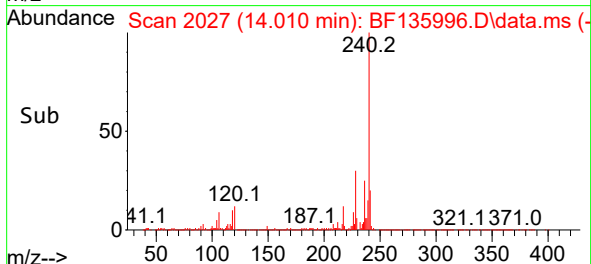
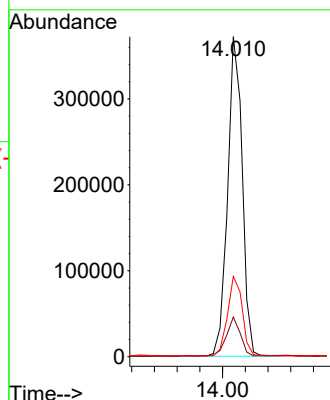
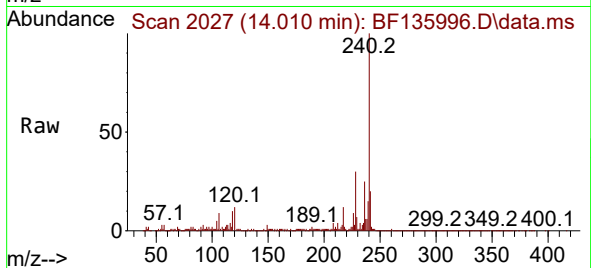
Ion	Ratio	Lower	Upper
240	100		
120	12.4	8.6	13.0
236	25.1	20.6	30.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#78

Pyrene

Concen: 23.256 ng

RT: 12.804 min Scan# 1822

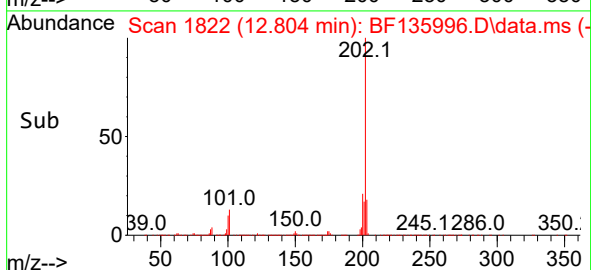
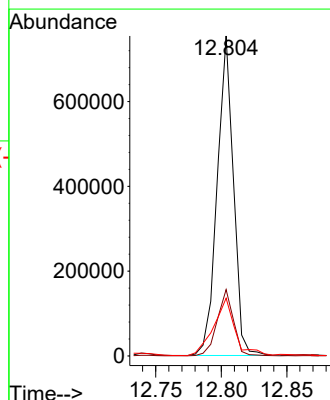
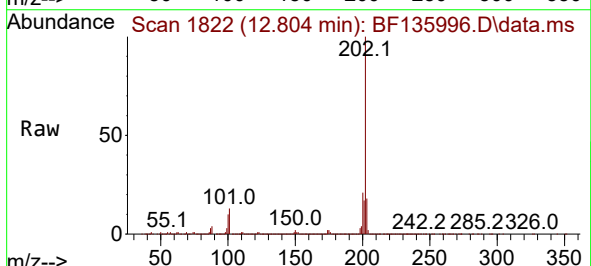
Delta R.T. -0.000 min

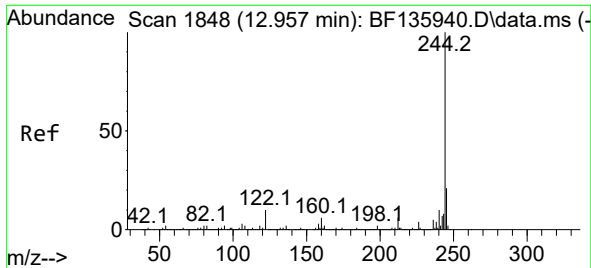
Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Tgt Ion:202 Resp: 649104

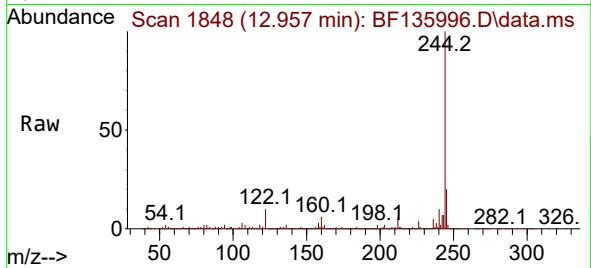
Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.6
203	18.1	14.5	21.7





#79
 Terphenyl-d14
 Concen: 61.244 ng
 RT: 12.957 min Scan# 1848
 Delta R.T. -0.000 min
 Lab File: BF135996.D
 Acq: 27 Oct 2023 21:10

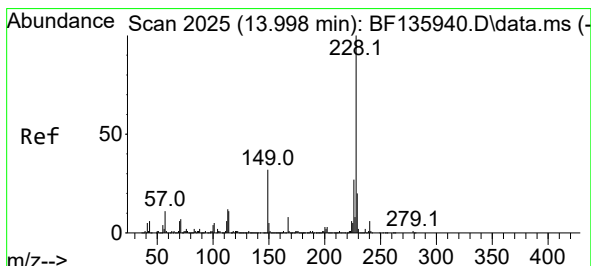
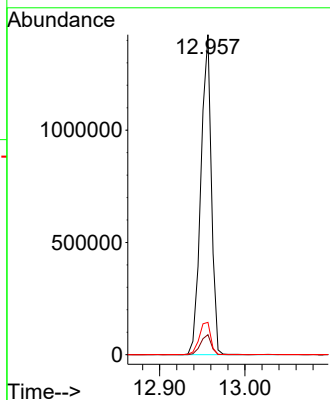
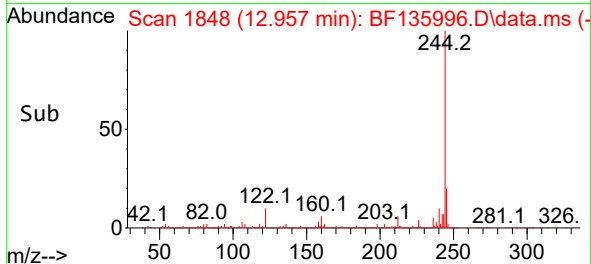
Instrument :
 BNA_F
 ClientSampleId :
 C-1(0-5)



Tgt Ion:244 Resp: 1218499
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.0 7.6
 122 10.1 8.0 12.0

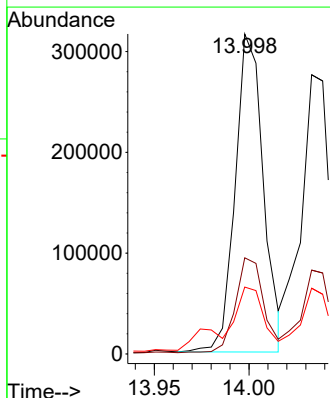
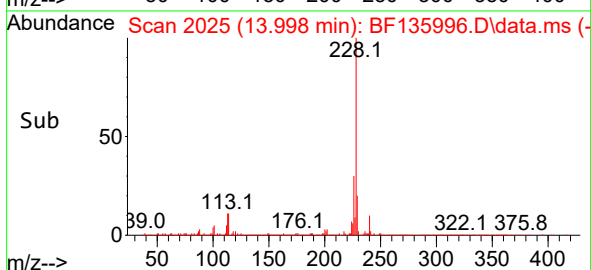
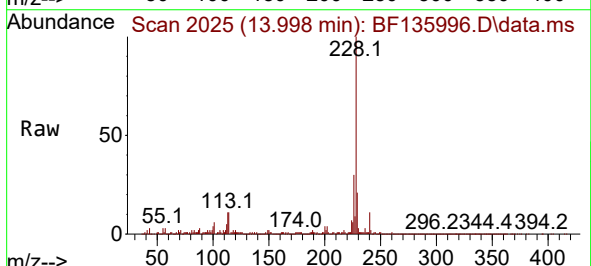
Manual Integrations
 APPROVED

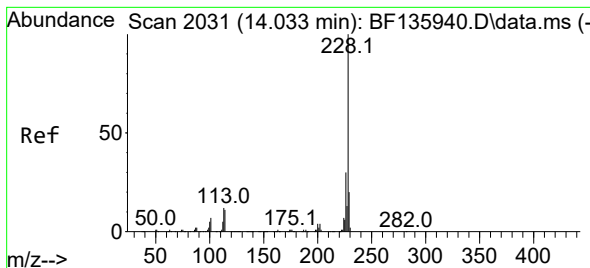
Reviewed By :Yogesh Patel 10/28/2023
 Supervised By :mohammad ahmed 10/28/2023



#81
 Benzo(a)anthracene
 Concen: 14.422 ng
 RT: 13.998 min Scan# 2025
 Delta R.T. -0.000 min
 Lab File: BF135996.D
 Acq: 27 Oct 2023 21:10

Tgt Ion:228 Resp: 325968
 Ion Ratio Lower Upper
 228 100
 226 30.1 21.8 32.6
 229 20.9 16.2 24.4





#83

Chrysene

Concen: 13.016 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.000 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Instrument :

BNA_F

ClientSampleId :

C-1(0-5)

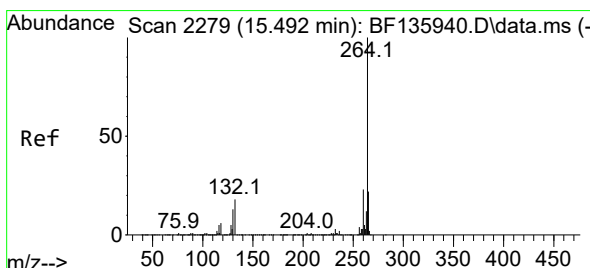
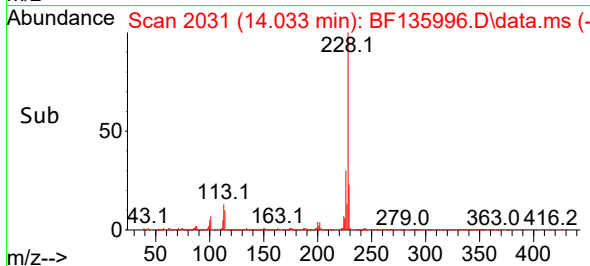
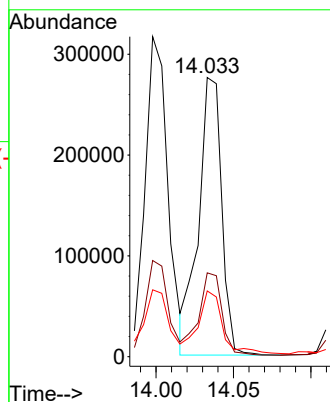
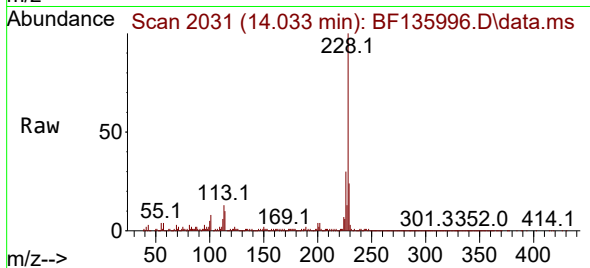
Tgt Ion:228 Resp: 286530
 Ion Ratio Lower Upper
 228 100
 226 30.0 23.9 35.9
 229 23.5 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#86

Perylene-d12

Concen: 20.000 ng

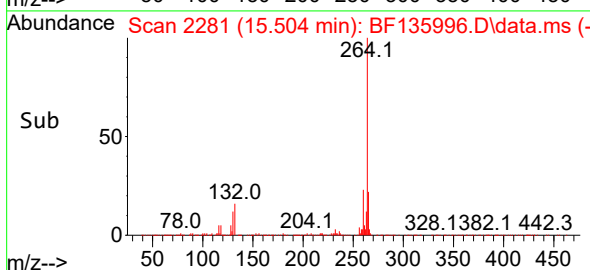
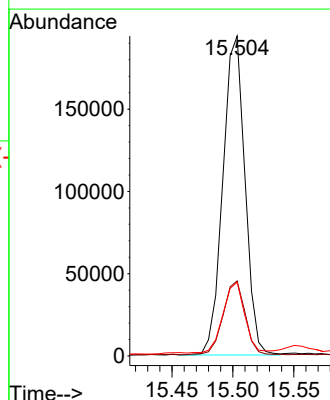
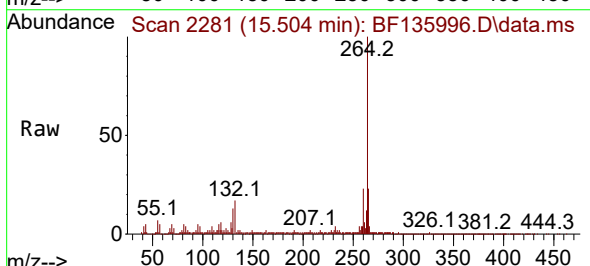
RT: 15.504 min Scan# 2281

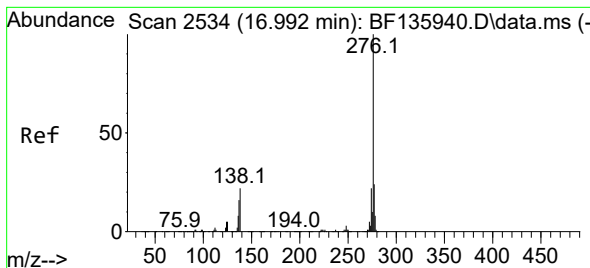
Delta R.T. 0.012 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Tgt Ion:264 Resp: 245431
 Ion Ratio Lower Upper
 264 100
 260 23.4 18.6 28.0
 265 23.0 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.937 ng

RT: 17.009 min Scan# 21

Delta R.T. 0.017 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Instrument :

BNA_F

ClientSampleId :

C-1(0-5)

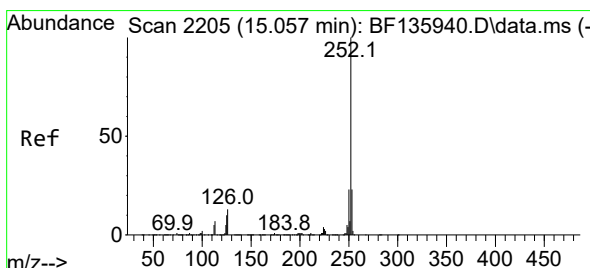
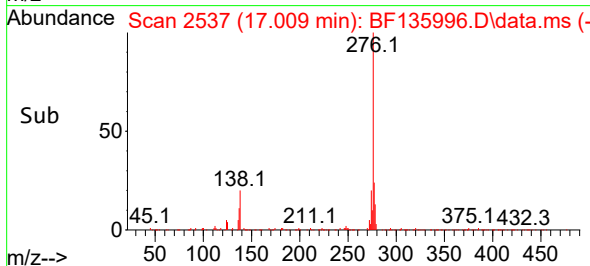
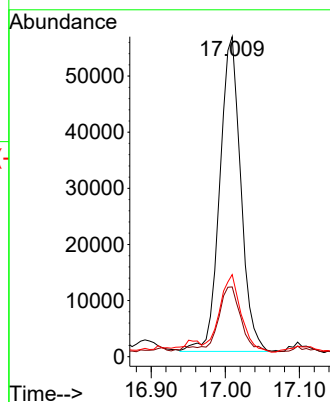
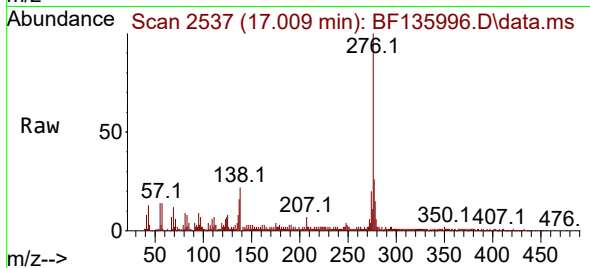
Tgt Ion:276 Resp: 11046
 Ion Ratio Lower Upper
 276 100
 138 21.8 21.8 32.6
 277 25.5 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#88

Benzo(b)fluoranthene

Concen: 19.311 ng m

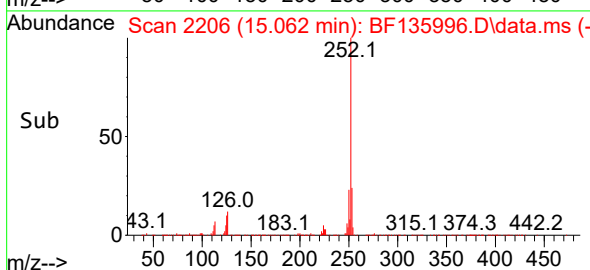
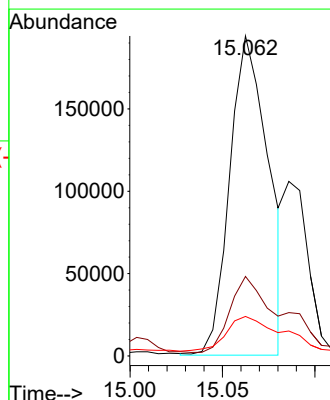
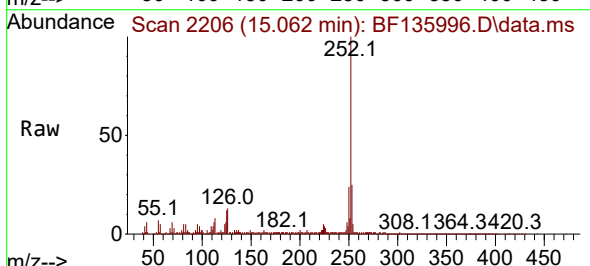
RT: 15.062 min Scan# 2206

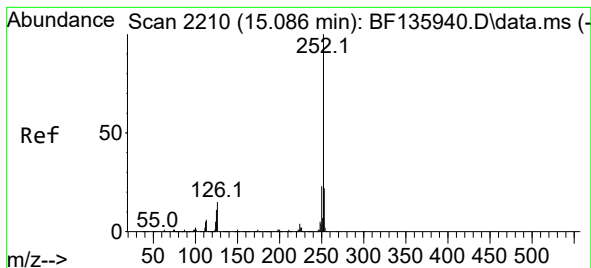
Delta R.T. 0.006 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Tgt Ion:252 Resp: 282060
 Ion Ratio Lower Upper
 252 100
 253 24.8 18.0 27.0
 125 12.3 8.2 12.4





#89

Benzo(k)fluoranthene

Concen: 6.651 ng m

RT: 15.086 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Instrument :

BNF

ClientSampleId :

C-1(0-5)

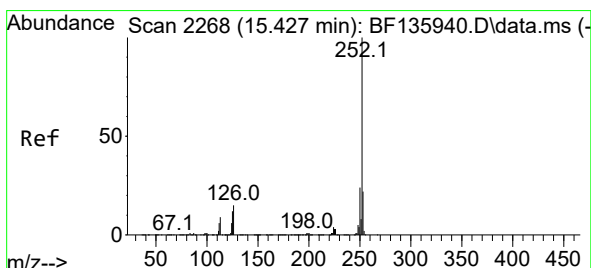
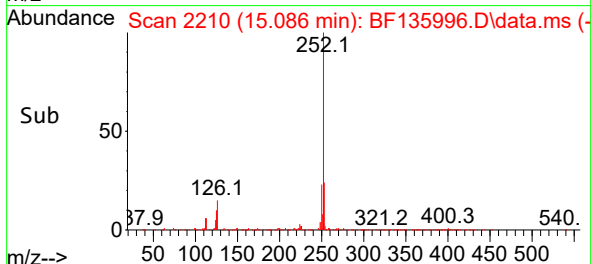
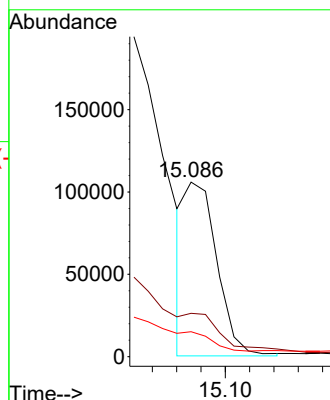
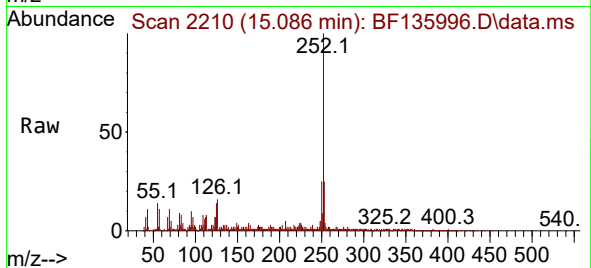
Tgt Ion:252	Resp:	95409
Ion Ratio	Lower	Upper
252	100	
253	24.8	17.7 26.5
125	14.3	8.5 12.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#90

Benzo(a)pyrene

Concen: 14.653 ng

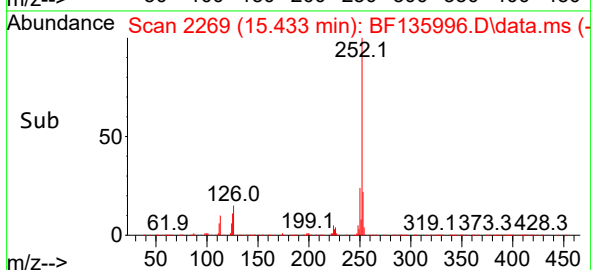
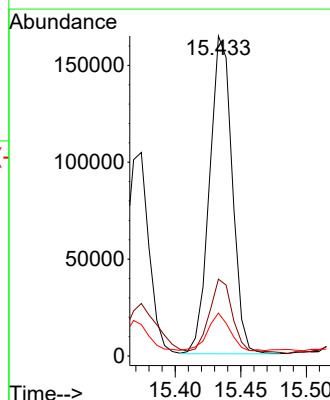
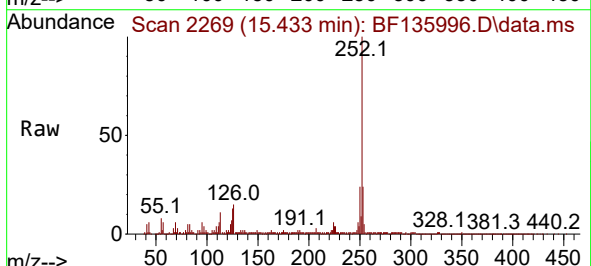
RT: 15.433 min Scan# 2269

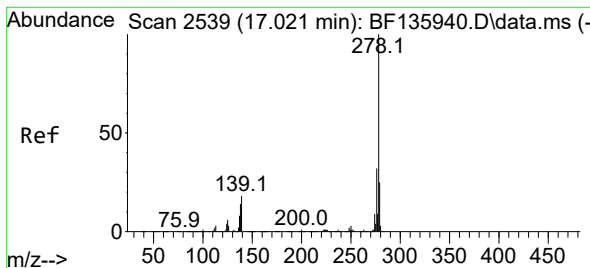
Delta R.T. 0.006 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Tgt Ion:252	Resp:	197252
Ion Ratio	Lower	Upper
252	100	
253	24.0	17.4 26.2
125	13.4	9.6 14.4





#91

Dibenzo(a,h)anthracene

Concen: 2.302 ng

RT: 17.027 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Instrument :

BNA_F

ClientSampleId :

C-1(0-5)

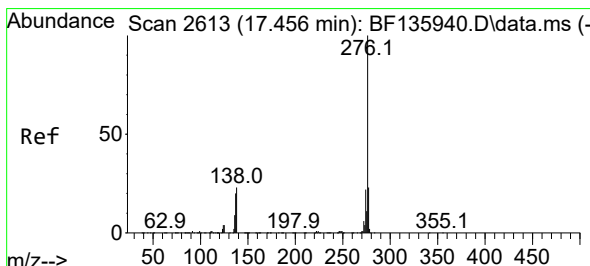
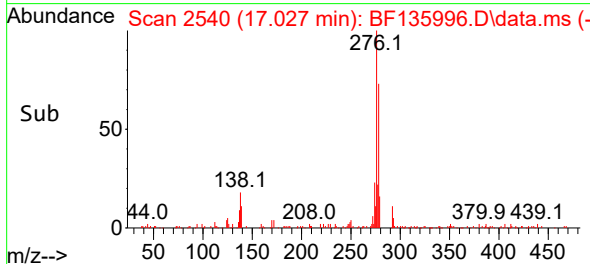
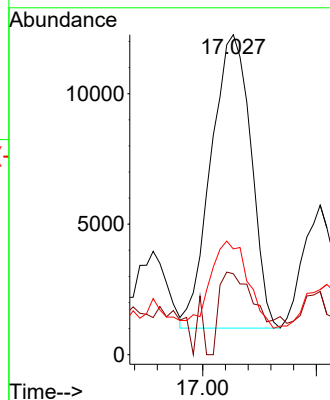
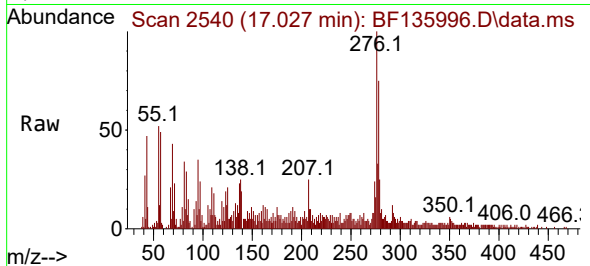
Tgt Ion:	278	Resp:	27400
Ion Ratio	Lower	Upper	
278	100		
139	25.3	14.0	21.0
279	33.1	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/28/2023

Supervised By :mohammad ahmed 10/28/2023



#92

Benzo(g,h,i)perylene

Concen: 10.926 ng

RT: 17.468 min Scan# 2615

Delta R.T. 0.012 min

Lab File: BF135996.D

Acq: 27 Oct 2023 21:10

Tgt Ion:	276	Resp:	105265
Ion Ratio	Lower	Upper	
276	100		
277	24.0	18.6	28.0
138	22.1	18.4	27.6

