

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100623\
 Data File : BF135639.D
 Acq On : 06 Oct 2023 20:33
 Operator : CG\JU
 Sample : 04637-01DL2 50X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1DL2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/08/2023
 Supervised By :mohammad ahmed 10/08/2023

Quant Time: Oct 07 01:52:32 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 04 17:06:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	127333	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	476345	20.000	ng	# 0.00
39) Acenaphthene-d10	9.775	164	208226	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	320260	20.000	ng	0.00
76) Chrysene-d12	13.927	240	231044	20.000	ng	0.00
86) Perylene-d12	15.398	264	205586	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	10478	1.338	ng	0.04
7) Phenol-d6	6.428	99	15870	1.594	ng	0.04
23) Nitrobenzene-d5	7.322	82	9657	1.101	ng	0.01
42) 2,4,6-Tribromophenol	10.580	330	2583	1.248	ng	0.01
45) 2-Fluorobiphenyl	9.098	172	20585	1.492	ng	0.00
79) Terphenyl-d14	12.863	244	14610	0.980	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.292	178	163296	10.781	ng	98
72) Anthracene	11.345	178	16977	1.090	ng	94
73) Carbazole	11.516	167	18531	1.307	ng	97
75) Fluoranthene	12.492	202	450795	28.562	ng	99
78) Pyrene	12.721	202	361714	16.444	ng	98
81) Benzo(a)anthracene	13.915	228	163486	10.958	ng	99
83) Chrysene	13.957	228	201824	13.606	ng	98
84) Bis(2-ethylhexyl)phtha...	13.904	149	8314	1.046	ng	97
87) Indeno(1,2,3-cd)pyrene	16.886	276	92786	6.883	ng	98
88) Benzo(b)fluoranthene	14.968	252	227639m	20.454	ng	
89) Benzo(k)fluoranthene	14.998	252	81431m	7.407	ng	
90) Benzo(a)pyrene	15.339	252	132798	12.513	ng	100
91) Dibenzo(a,h)anthracene	16.886	278	21139	1.917	ng	# 82
92) Benzo(g,h,i)perylene	17.339	276	91203	7.918	ng	96

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

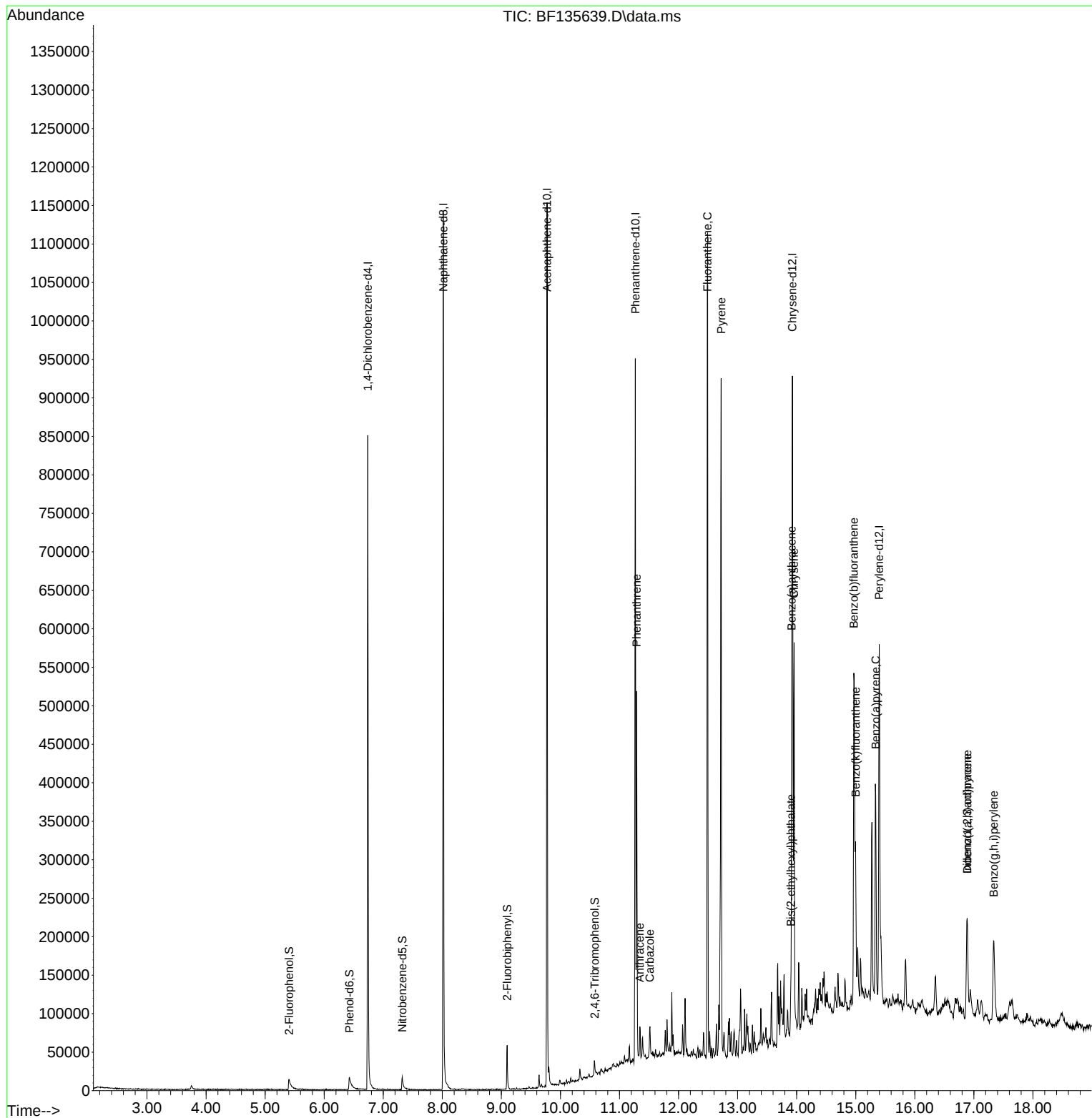
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100623\
Data File : BF135639.D
Acq On : 06 Oct 2023 20:33
Operator : CG\JU
Sample : 04637-01DL2 50X
Misc :
ALS Vial : 21 Sample Multiplier: 1

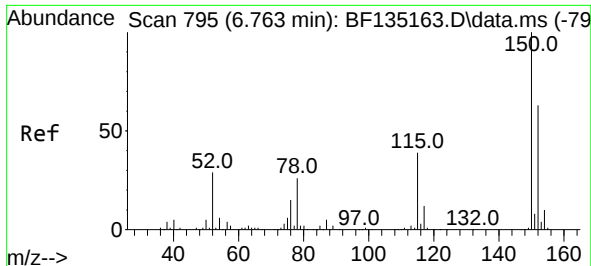
Instrument :
BNA_F
ClientSampleId :
WC-1DL2

Quant Time: Oct 07 01:52:32 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 04 17:06:20 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

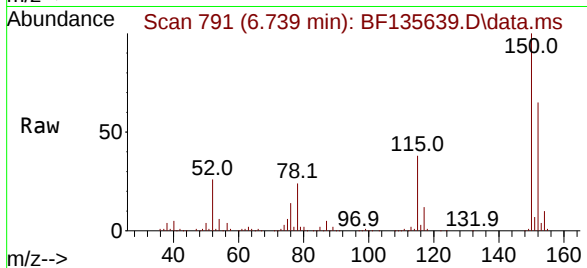
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

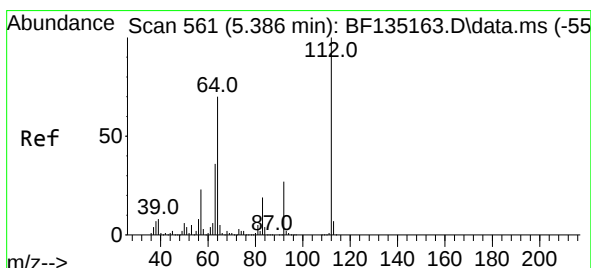
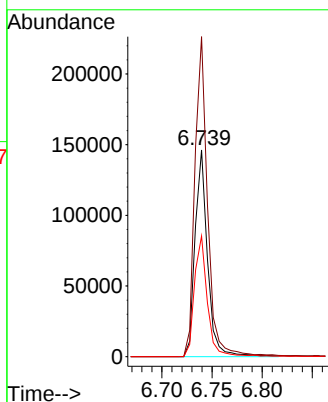
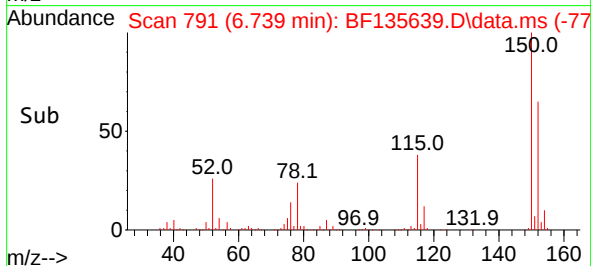
Instrument :
BNA_F
ClientSampleId :
WC-1DL2



Tgt Ion:152 Resp: 12733
Ion Ratio Lower Upper
152 100
150 154.8 127.8 191.6
115 58.4 49.8 74.8

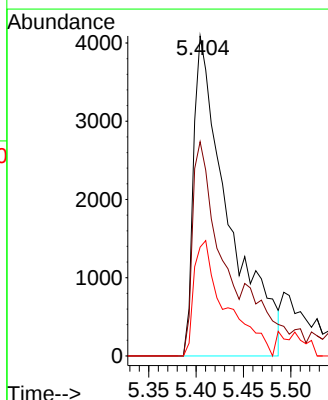
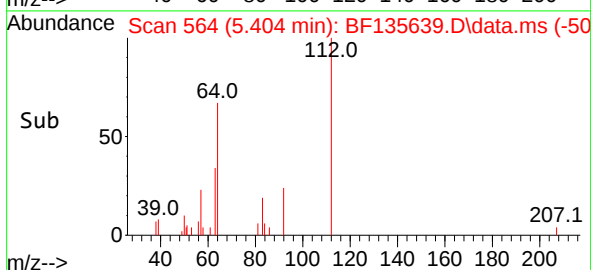
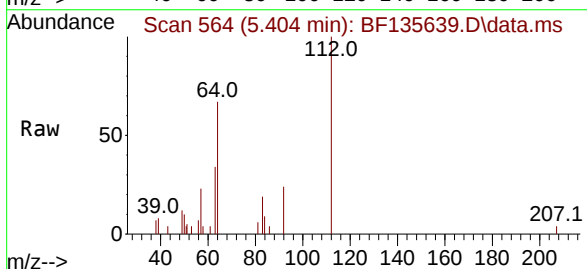
Manual Integrations
APPROVED

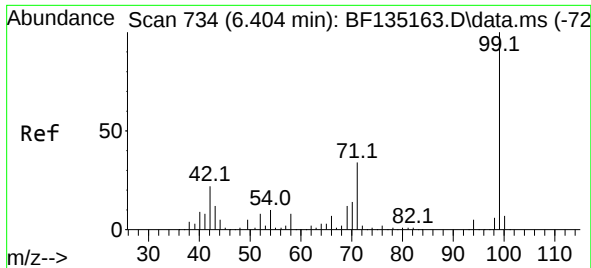
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#5
2-Fluorophenol
Concen: 1.338 ng
RT: 5.404 min Scan# 564
Delta R.T. 0.035 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

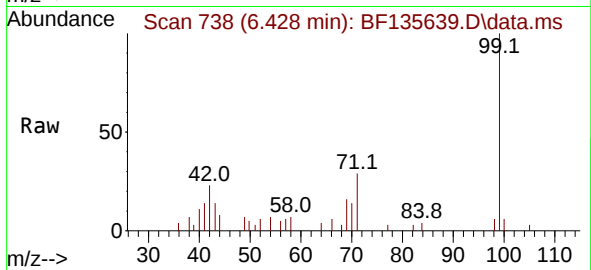
Tgt Ion:112 Resp: 10478
Ion Ratio Lower Upper
112 100
64 66.9 55.9 83.9
63 34.0 29.0 43.6





#7
Phenol-d6
Concen: 1.594 ng
RT: 6.428 min Scan# 71
Delta R.T. 0.041 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

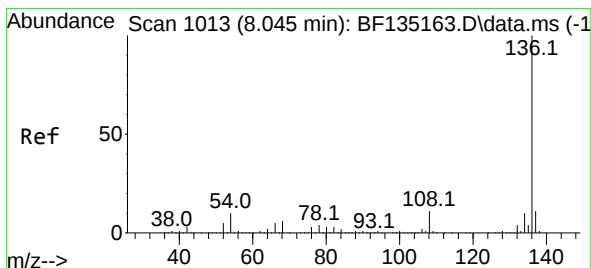
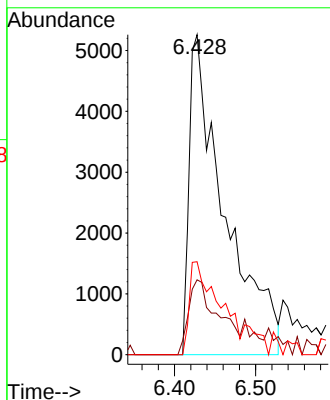
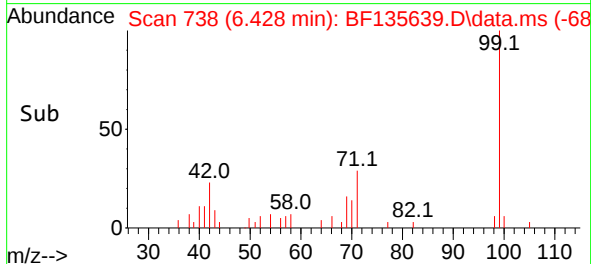
Instrument :
BNA_F
ClientSampleId :
WC-1DL2



Tgt Ion: 99 Resp: 15870
Ion Ratio Lower Upper
99 100
42 23.4 17.9 26.9
71 29.0 27.0 40.6

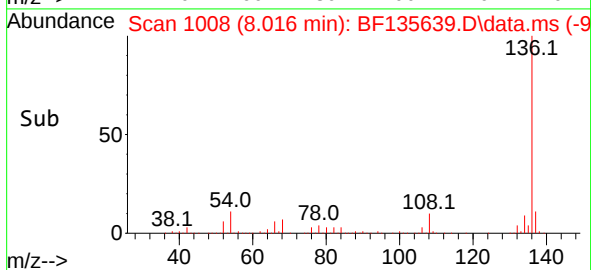
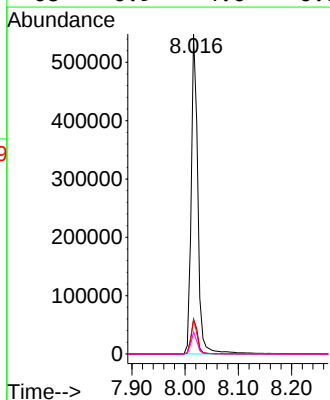
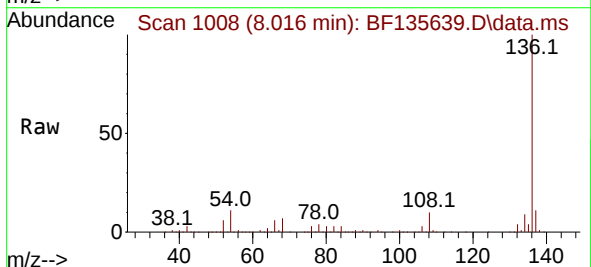
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

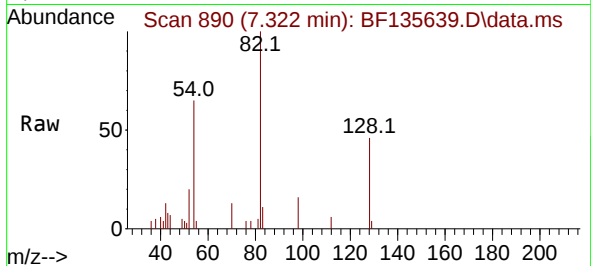
Tgt Ion:136 Resp: 476345
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 10.7 7.7 11.5
68 6.9 4.6 6.8#





#23
Nitrobenzene-d5
Concen: 1.101 ng
RT: 7.322 min Scan# 89
Delta R.T. 0.012 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

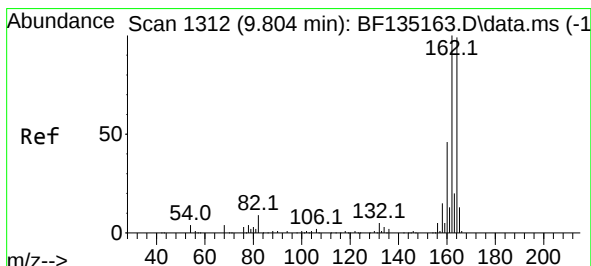
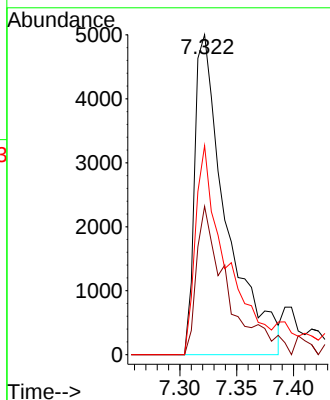
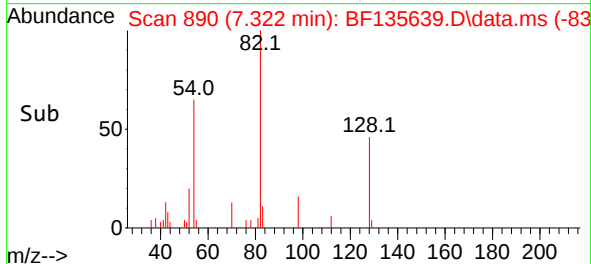
Instrument :
BNA_F
ClientSampleId :
WC-1DL2



Tgt Ion: 82 Resp: 965
Ion Ratio Lower Upper
82 100
128 46.4 35.8 53.6
54 65.3 50.6 76.0

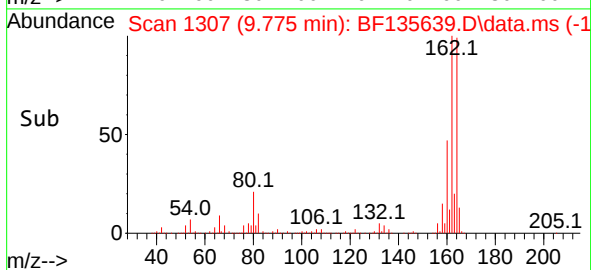
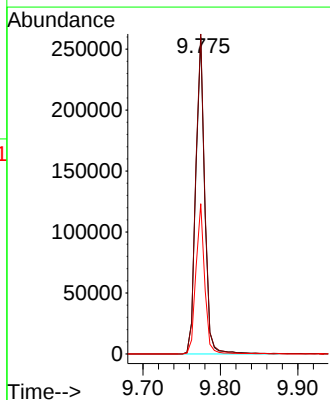
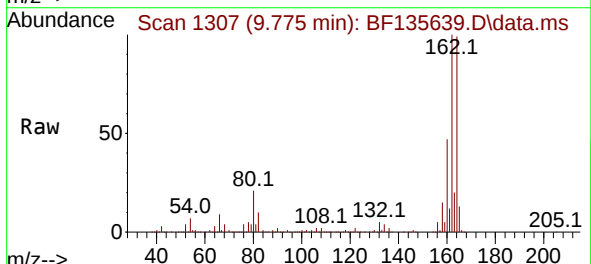
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 1307
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

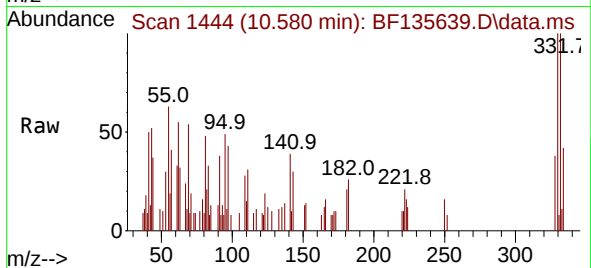
Tgt Ion:164 Resp: 208226
Ion Ratio Lower Upper
164 100
162 101.1 81.0 121.4
160 47.5 37.0 55.4





#42
2,4,6-Tribromophenol
Concen: 1.248 ng
RT: 10.580 min Scan# 1447
Delta R.T. 0.012 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

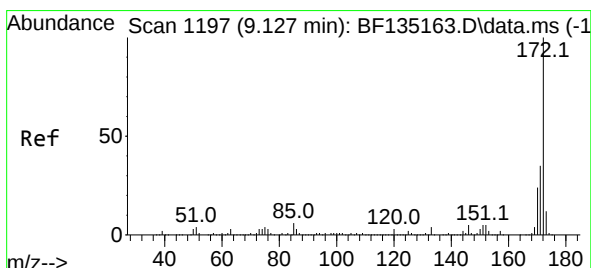
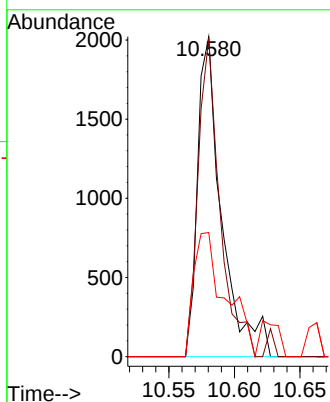
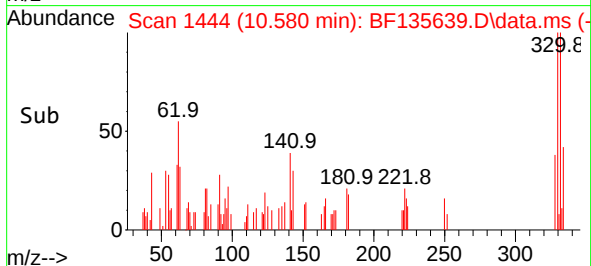
Instrument :
BNA_F
Client SampleId :
WC-1DL2



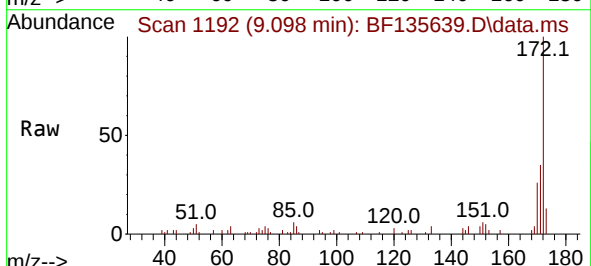
Tgt Ion: 330 Resp: 258
Ion Ratio Lower Upper
330 100
332 90.5 77.3 115.9
141 51.1 25.8 38.8

Manual Integrations
APPROVED

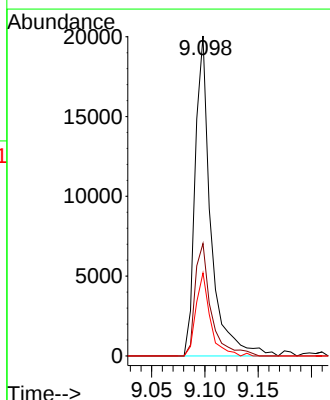
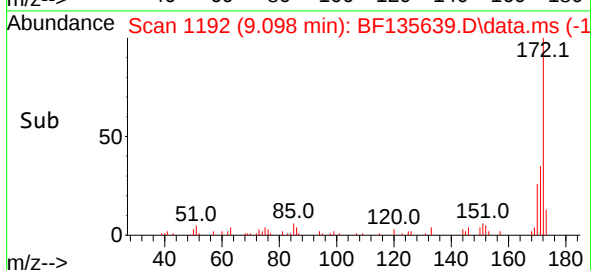
Reviewed By : Yogesh Patel 10/08/2023
Supervised By : mohammad ahmed 10/08/2023

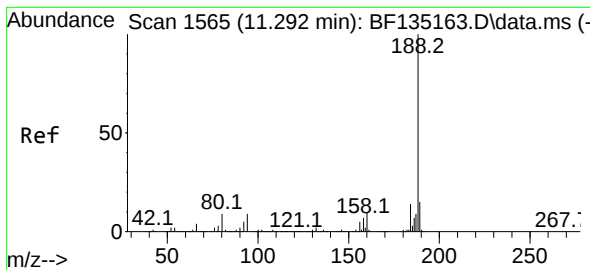


#45
2-Fluorobiphenyl
Concen: 1.492 ng
RT: 9.098 min Scan# 1192
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33



Tgt Ion: 172 Resp: 20585
Ion Ratio Lower Upper
172 100
171 35.1 28.4 42.6
170 25.9 19.0 28.4





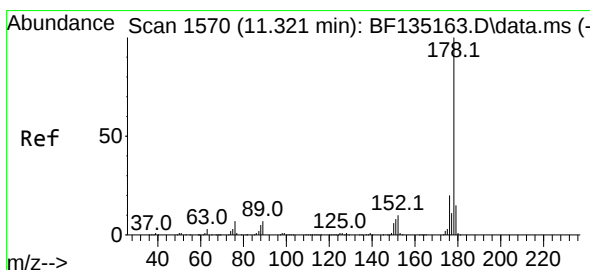
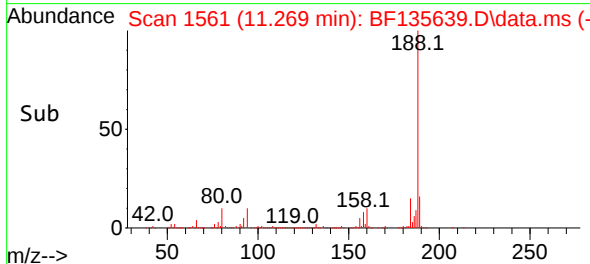
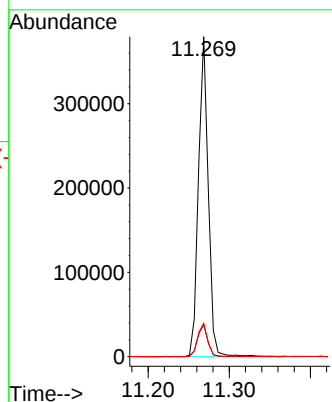
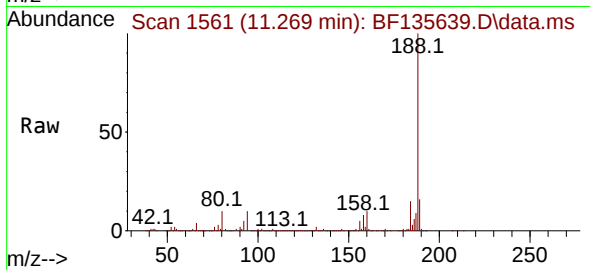
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

Instrument :
BNA_F
ClientSampleId :
WC-1DL2

Tgt Ion:188 Resp: 320260
Ion Ratio Lower Upper
188 100
94 9.9 7.0 10.6
80 10.5 7.5 11.3

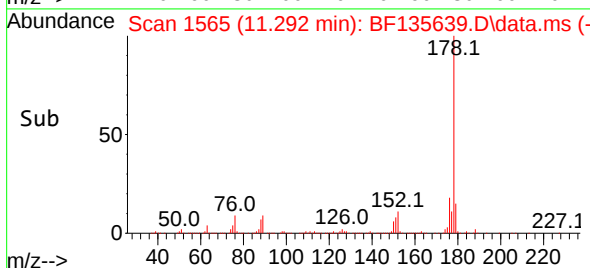
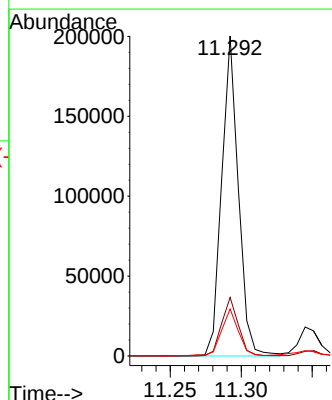
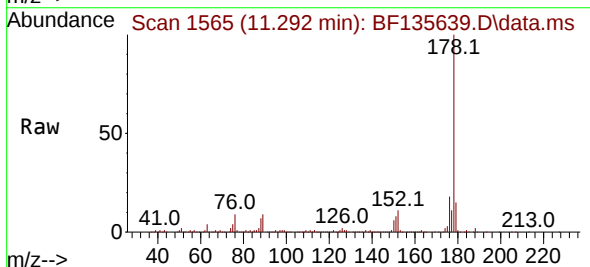
Manual Integrations
APPROVED

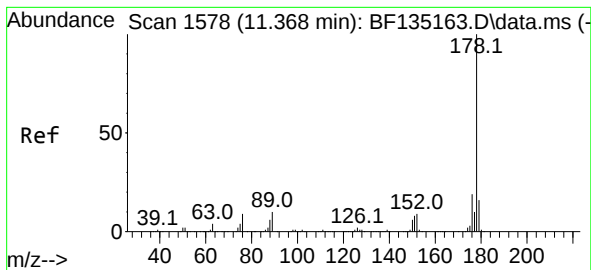
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#71
Phenanthrene
Concen: 10.781 ng
RT: 11.292 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

Tgt Ion:178 Resp: 163296
Ion Ratio Lower Upper
178 100
176 18.3 15.6 23.4
179 14.7 12.0 18.0





#72

Anthracene

Concen: 1.090 ng

RT: 11.345 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF135639.D

Acq: 06 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

WC-1DL2

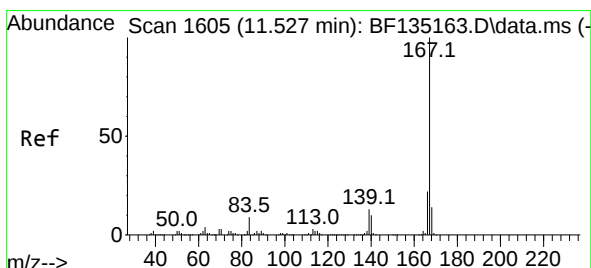
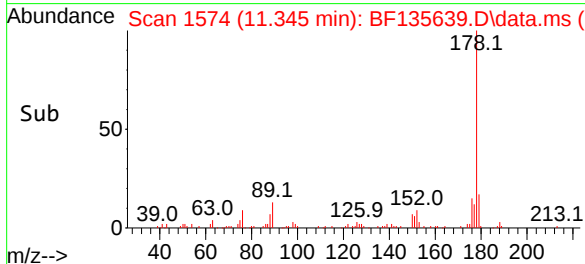
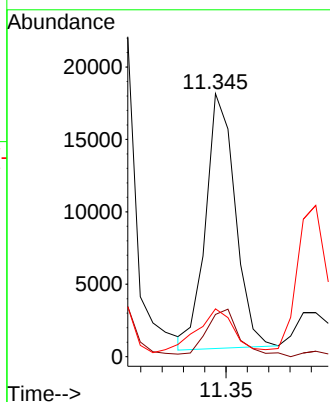
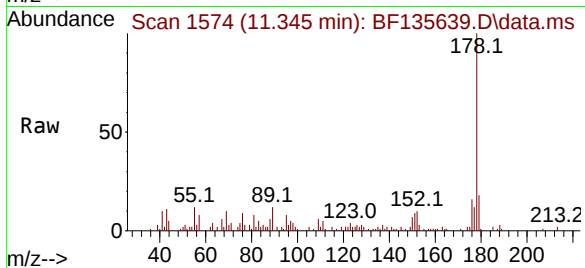
Tgt Ion:178	Resp:	1697
Ion Ratio	Lower	Upper
178	100	
176	16.1	15.4 23.2
179	18.2	12.6 19.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/08/2023

Supervised By :mohammad ahmed 10/08/2023



#73

Carbazole

Concen: 1.307 ng

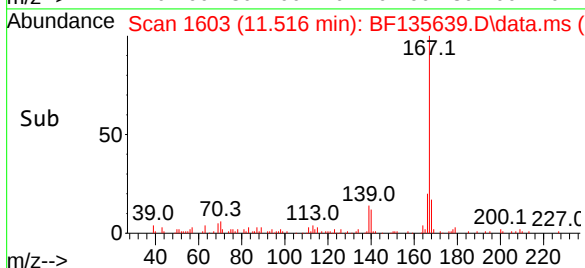
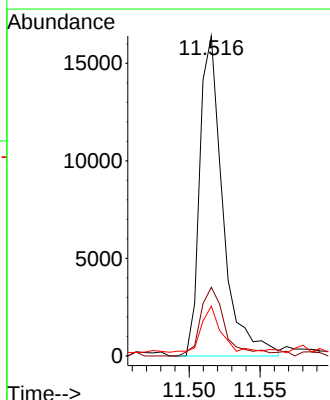
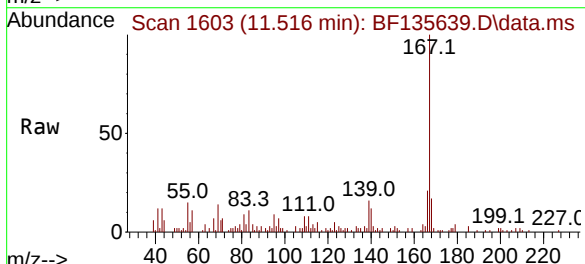
RT: 11.516 min Scan# 1603

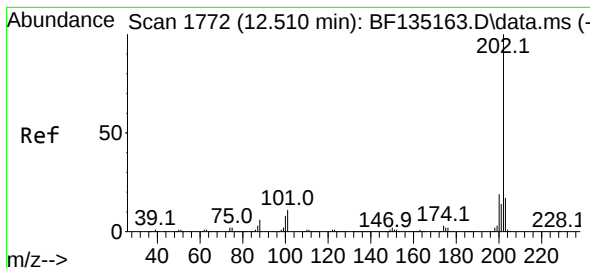
Delta R.T. 0.006 min

Lab File: BF135639.D

Acq: 06 Oct 2023 20:33

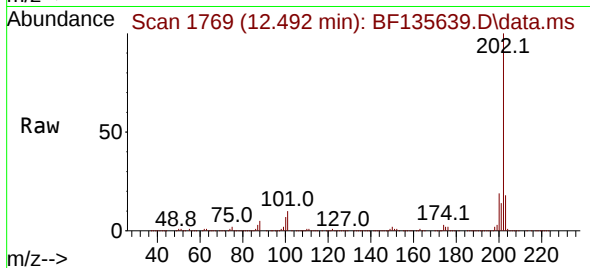
Tgt Ion:167	Resp:	18531
Ion Ratio	Lower	Upper
167	100	
166	21.5	17.4 26.0
139	15.6	10.6 15.8





#75
Fluoranthene
Concen: 28.562 ng
RT: 12.492 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

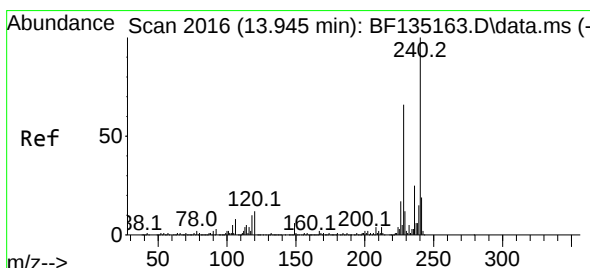
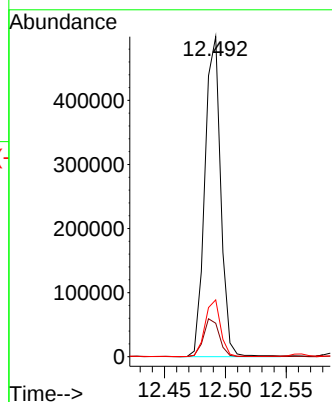
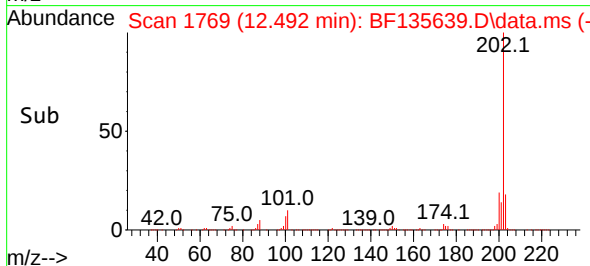
Instrument :
BNA_F
ClientSampleId :
WC-1DL2



Tgt Ion:202 Resp: 45079
Ion Ratio Lower Upper
202 100
101 10.4 0.0 31.3
203 17.7 0.0 37.4

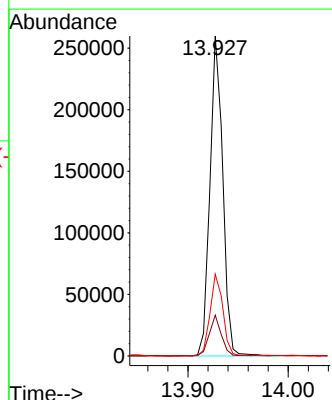
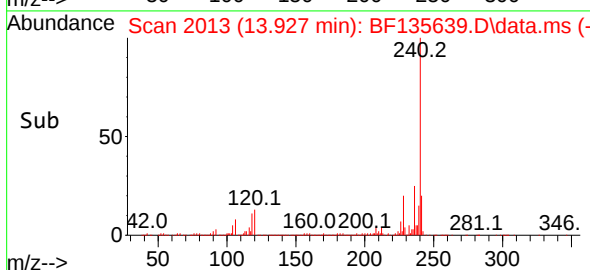
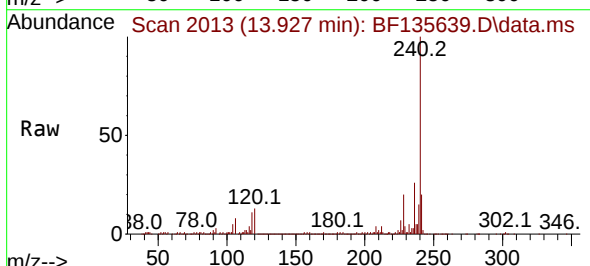
Manual Integrations
APPROVED

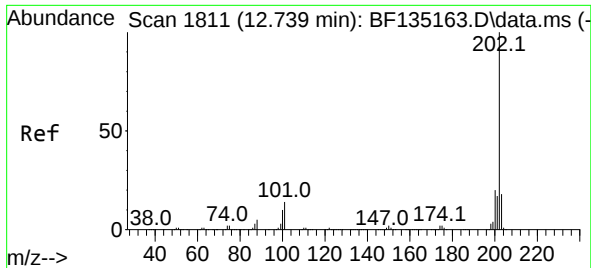
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.927 min Scan# 2013
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

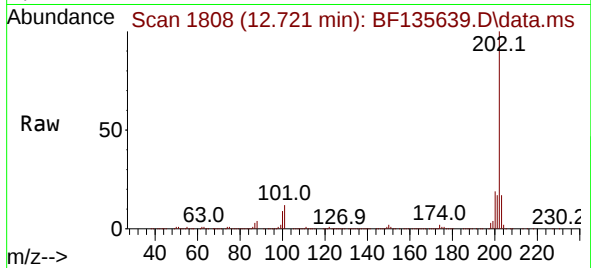
Tgt Ion:240 Resp: 231044
Ion Ratio Lower Upper
240 100
120 12.8 9.4 14.2
236 25.5 19.8 29.8





#78
Pyrene
Concen: 16.444 ng
RT: 12.721 min Scan# 1808
Delta R.T. 0.006 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

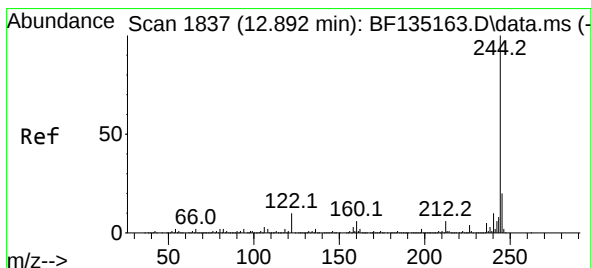
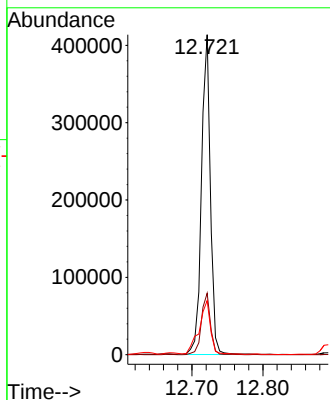
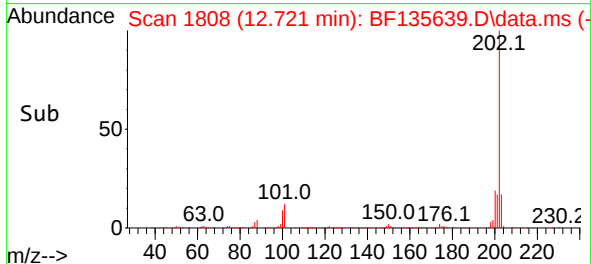
Instrument :
BNA_F
ClientSampleId :
WC-1DL2



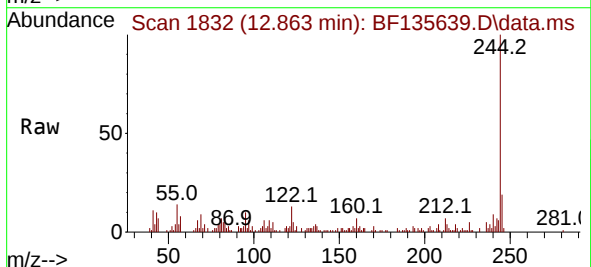
Tgt Ion:202 Resp: 361714
Ion Ratio Lower Upper
202 100
200 19.2 16.2 24.2
203 16.9 14.2 21.4

Manual Integrations
APPROVED

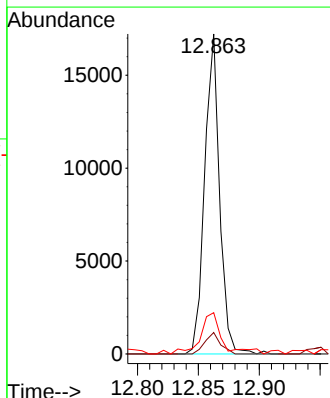
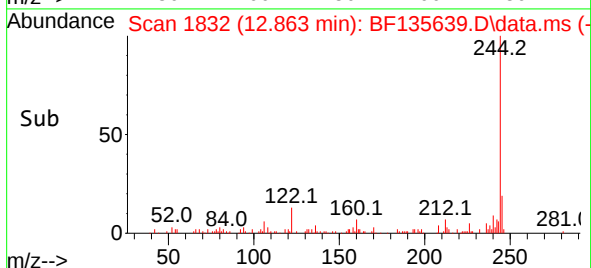
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023

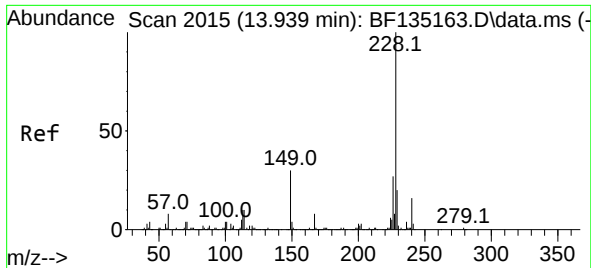


#79
Terphenyl-d14
Concen: 0.980 ng
RT: 12.863 min Scan# 1832
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33



Tgt Ion:244 Resp: 14610
Ion Ratio Lower Upper
244 100
212 6.7 5.1 7.7
122 12.9 7.9 11.9#





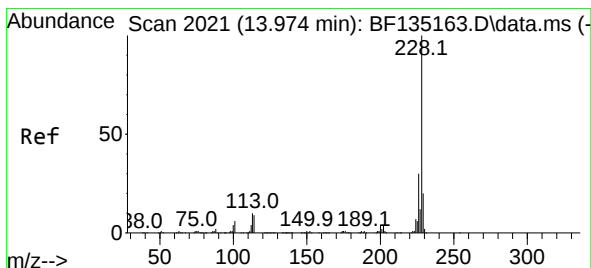
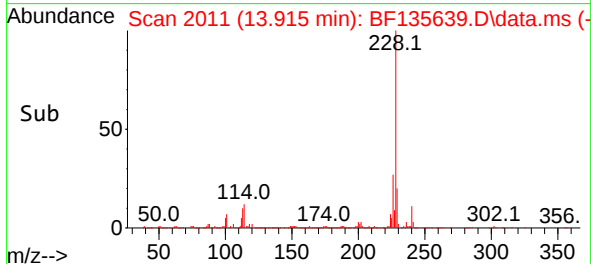
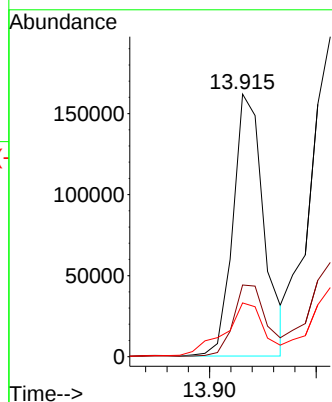
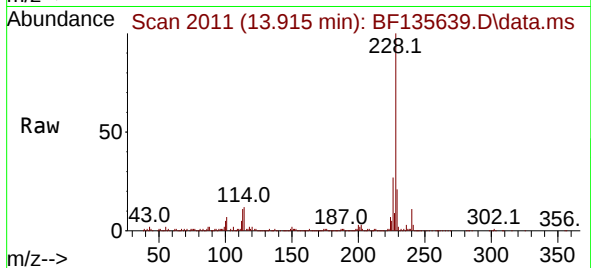
#81
Benzo(a)anthracene
Concen: 10.958 ng
RT: 13.915 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

Instrument :
BNA_F
ClientSampleId :
WC-1DL2

Tgt Ion:228 Resp: 163480
Ion Ratio Lower Upper
228 100
226 27.3 21.7 32.5
229 20.5 15.8 23.8

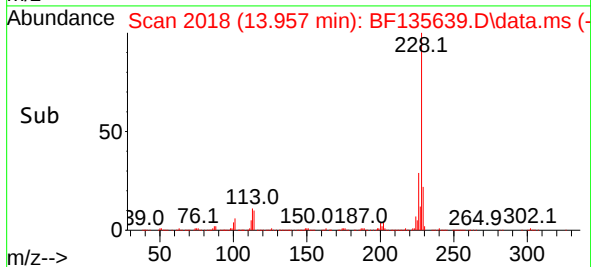
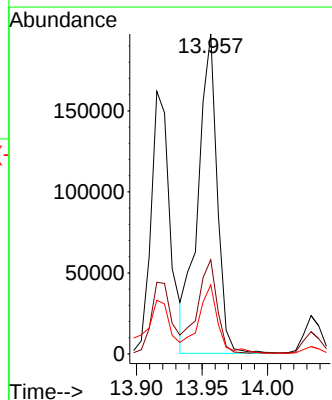
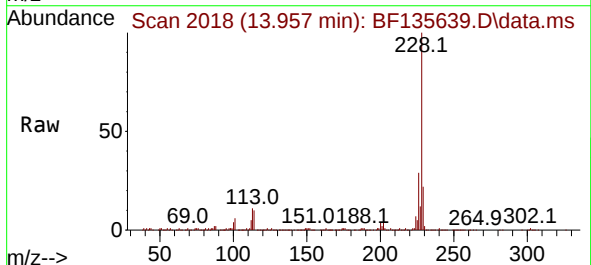
Manual Integrations
APPROVED

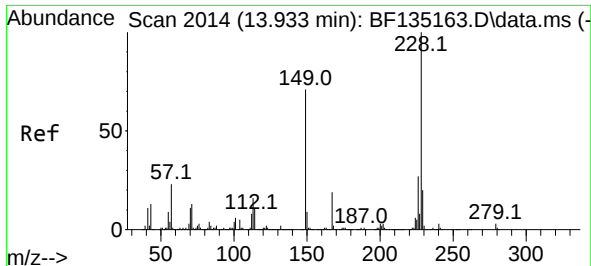
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#83
Chrysene
Concen: 13.606 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

Tgt Ion:228 Resp: 201824
Ion Ratio Lower Upper
228 100
226 29.5 24.3 36.5
229 21.6 16.0 24.0





#84
Bis(2-ethylhexyl)phthalate
Concen: 1.046 ng
RT: 13.904 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

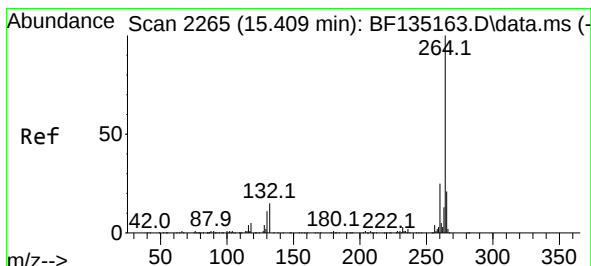
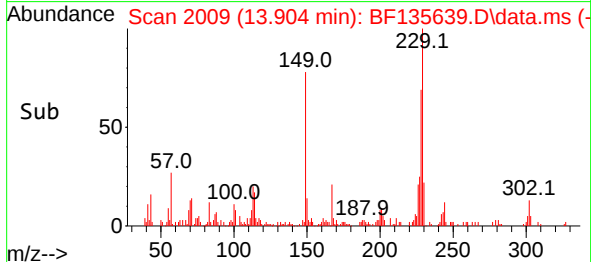
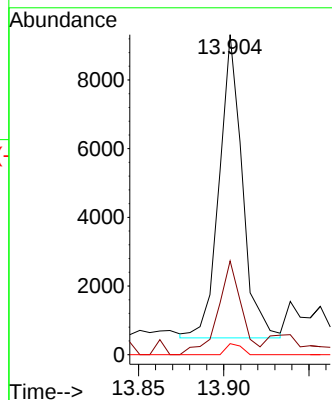
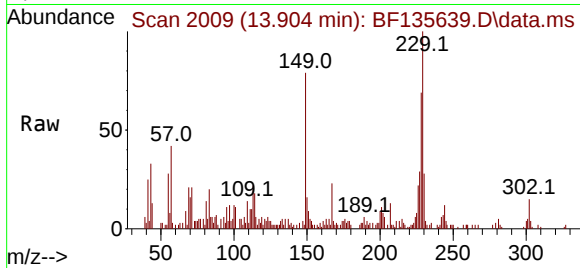
Instrument :
BNA_F
ClientSampleId :
WC-1DL2

Tgt Ion:149 Resp: 8314

Ion	Ratio	Lower	Upper
149	100		
167	29.3	21.9	32.9
279	3.4	3.3	4.9

Manual Integrations
APPROVED

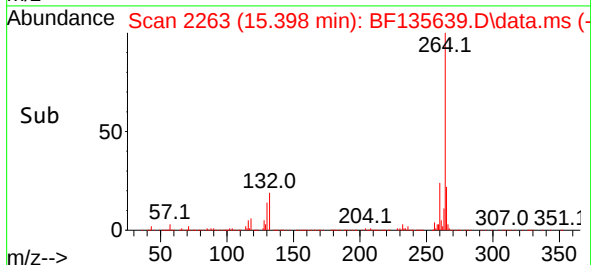
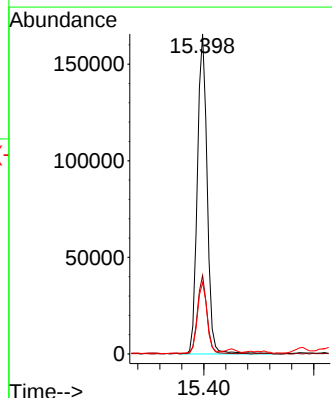
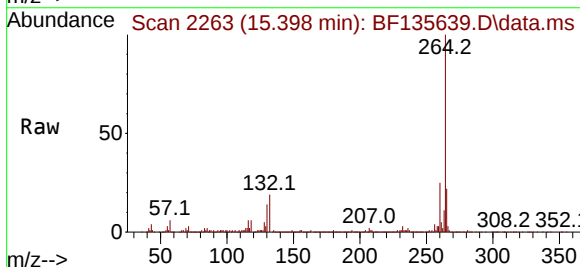
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023

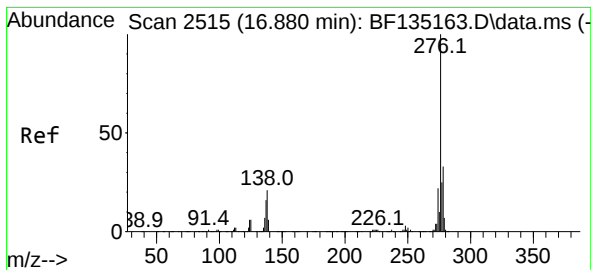


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.398 min Scan# 2263
Delta R.T. 0.012 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

Tgt Ion:264 Resp: 205586

Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.8	29.6
265	22.4	17.0	25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.883 ng

RT: 16.886 min Scan# 2190

Delta R.T. 0.018 min

Lab File: BF135639.D

Acq: 06 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

WC-1DL2

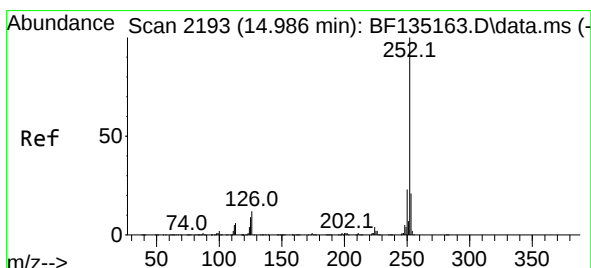
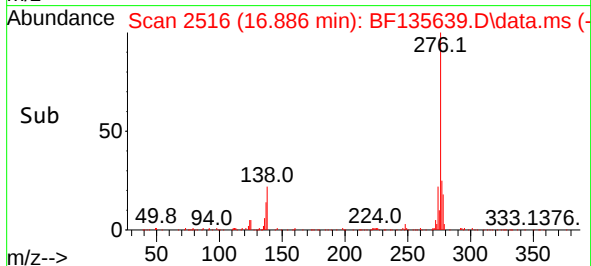
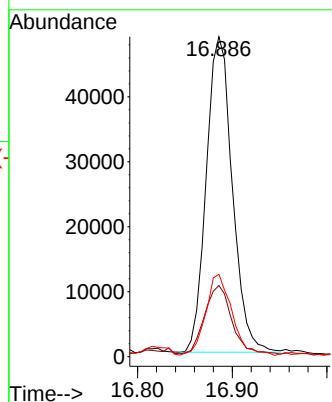
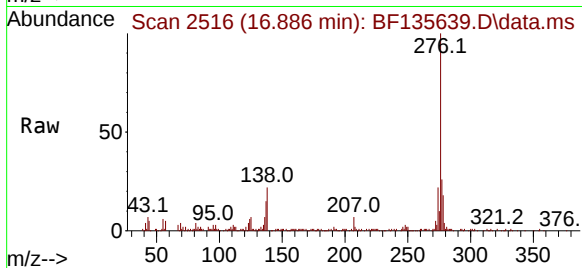
Tgt Ion:	276	Resp:	92780
Ion Ratio	Lower	Upper	
276	100		
138	23.5	19.2	28.8
277	25.8	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/08/2023

Supervised By :mohammad ahmed 10/08/2023



#88

Benzo(b)fluoranthene

Concen: 20.454 ng m

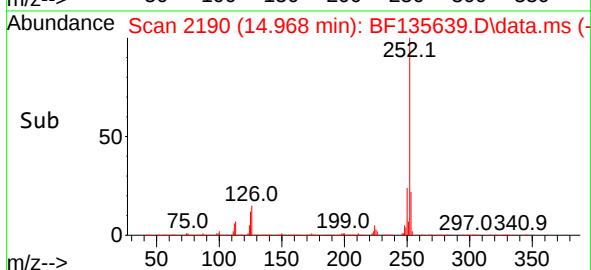
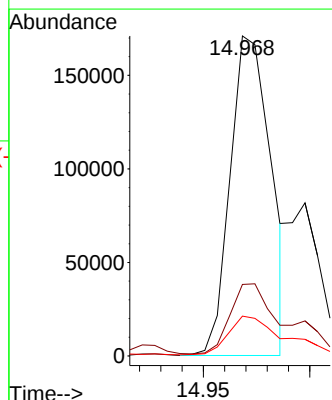
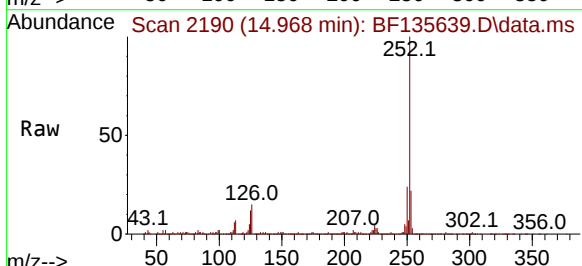
RT: 14.968 min Scan# 2190

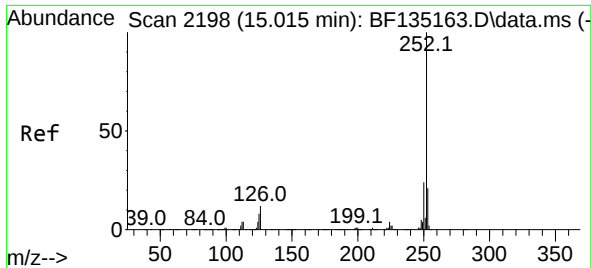
Delta R.T. 0.006 min

Lab File: BF135639.D

Acq: 06 Oct 2023 20:33

Tgt Ion:	252	Resp:	227639
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.2	25.8
125	12.4	7.1	10.7





#89

Benzo(k)fluoranthene

Concen: 7.407 ng m

RT: 14.998 min Scan# 2198

Delta R.T. 0.006 min

Lab File: BF135639.D

Acq: 06 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

WC-1DL2

Tgt Ion:252 Resp: 8143

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

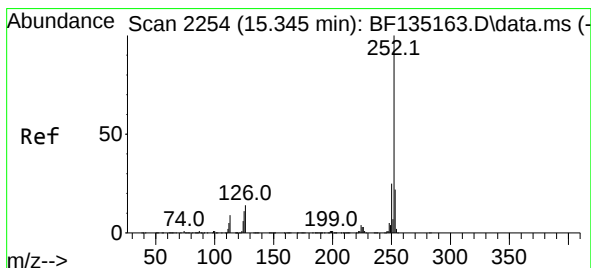
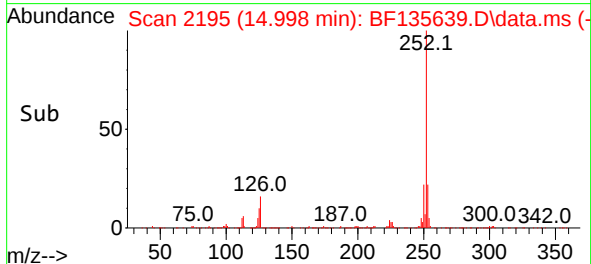
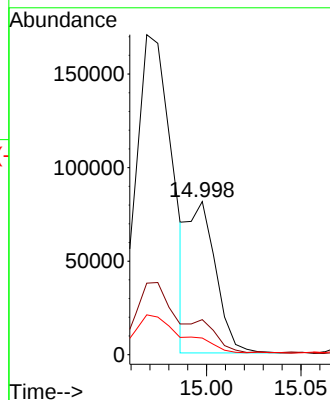
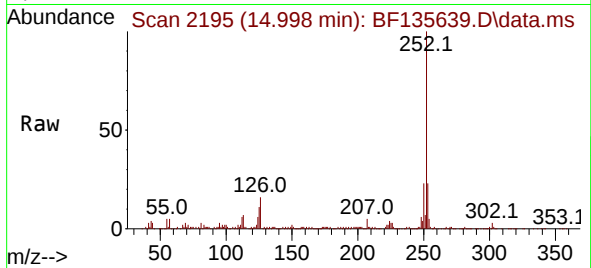
125 10.9 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/08/2023

Supervised By :mohammad ahmed 10/08/2023



#90

Benzo(a)pyrene

Concen: 12.513 ng

RT: 15.339 min Scan# 2253

Delta R.T. 0.012 min

Lab File: BF135639.D

Acq: 06 Oct 2023 20:33

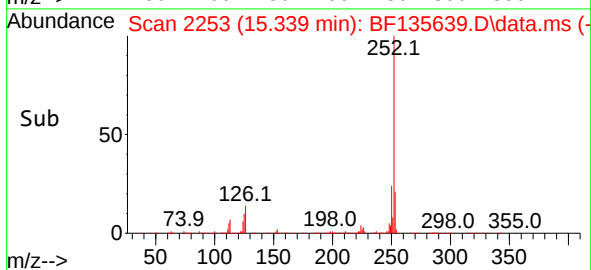
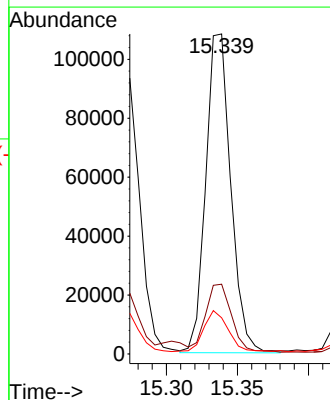
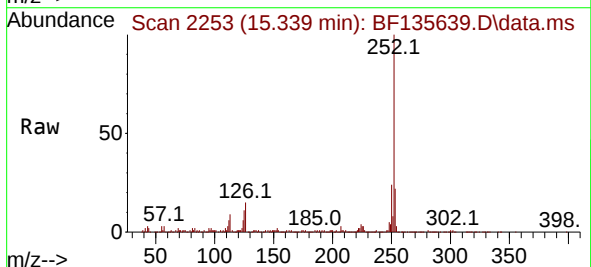
Tgt Ion:252 Resp: 132798

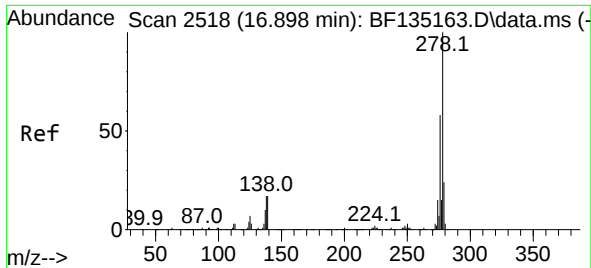
Ion Ratio Lower Upper

252 100

253 21.8 17.5 26.3

125 11.3 9.2 13.8





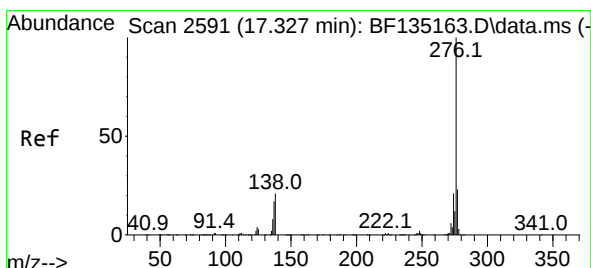
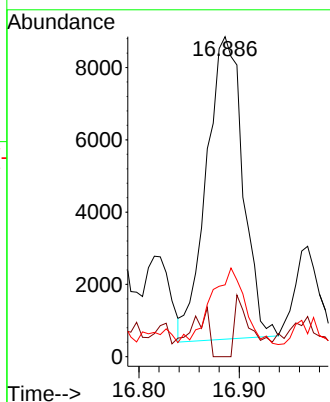
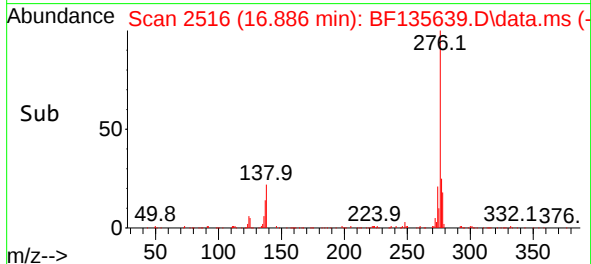
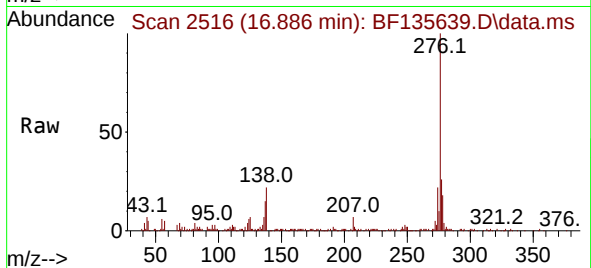
#91
Dibenzo(a,h)anthracene
Concen: 1.917 ng
RT: 16.886 min Scan# 2518
Delta R.T. 0.006 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

Instrument :
BNA_F
ClientSampleId :
WC-1DL2

Tgt Ion:278 Resp: 21139
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.0
279 22.5 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#92
Benzo(g,h,i)perylene
Concen: 7.918 ng
RT: 17.339 min Scan# 2593
Delta R.T. 0.024 min
Lab File: BF135639.D
Acq: 06 Oct 2023 20:33

Tgt Ion:276 Resp: 91203
Ion Ratio Lower Upper
276 100
277 25.6 18.8 28.2
138 23.0 16.9 25.3

