

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
 Data File : BF135741.D
 Acq On : 12 Oct 2023 18:33
 Operator : CG\JU
 Sample : 04657-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

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

Quant Time: Oct 13 00:57:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 02:43:17 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	85671	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	306172	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	116864	20.000	ng	0.00
64) Phenanthrene-d10	11.275	188	193426	20.000	ng	0.00
76) Chrysene-d12	13.939	240	123693	20.000	ng	0.00
86) Perylene-d12	15.415	264	105835	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	408823	77.614	ng	0.00
7) Phenol-d6	6.393	99	488152	72.883	ng	0.00
23) Nitrobenzene-d5	7.304	82	310745	55.141	ng	0.00
42) 2,4,6-Tribromophenol	10.575	330	93085	80.153	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	414980	53.574	ng	0.00
79) Terphenyl-d14	12.869	244	281271	35.250	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.039	128	152984	10.284	ng	99
37) 2-Methylnaphthalene	8.734	142	42123	4.212	ng	99
38) 1-Methylnaphthalene	8.834	142	35255	3.766	ng	97
49) Acenaphthylene	9.639	152	105975	9.786	ng	98
52) Acenaphthene	9.810	154	19919	3.114	ng	96
55) Dibenzofuran	9.986	168	22413	2.296	ng	94
58) Fluorene	10.328	166	45422	6.052	ng	97
71) Phenanthrene	11.298	178	474811	51.902	ng	99
72) Anthracene	11.351	178	121817	12.955	ng	99
73) Carbazole	11.516	167	33310	3.891	ng	98
75) Fluoranthene	12.504	202	749679	78.646	ng	98
78) Pyrene	12.733	202	734220	62.346	ng	99
81) Benzo(a)anthracene	13.927	228	384519	48.142	ng	95
83) Chrysene	13.968	228	339637	42.769	ng	97
87) Indeno(1,2,3-cd)pyrene	16.909	276	139450	20.096	ng	94
88) Benzo(b)fluoranthene	14.986	252	340816m	59.487	ng	
89) Benzo(k)fluoranthene	15.010	252	104417m	18.450	ng	
90) Benzo(a)pyrene	15.357	252	252265	46.172	ng	# 96
91) Dibenzo(a,h)anthracene	16.909	278	38995	6.868	ng	# 69
92) Benzo(g,h,i)perylene	17.362	276	122244	20.615	ng	98

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

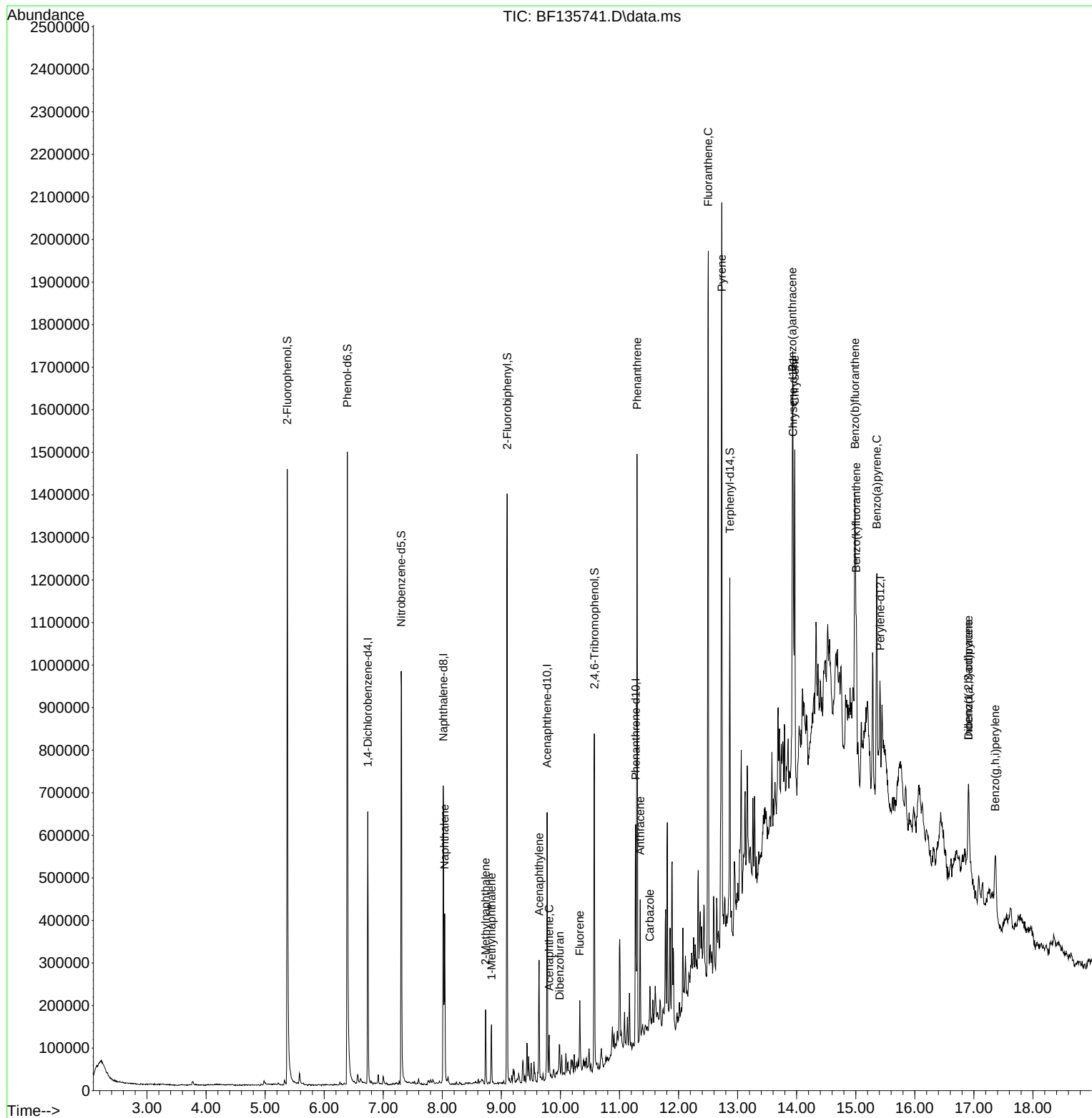
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
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ALS Vial : 18 Sample Multiplier: 1

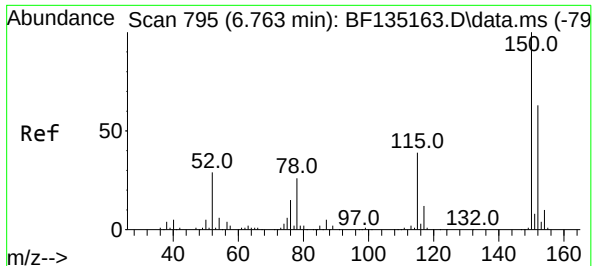
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

Quant Time: Oct 13 00:57:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 11 02:43:17 2023
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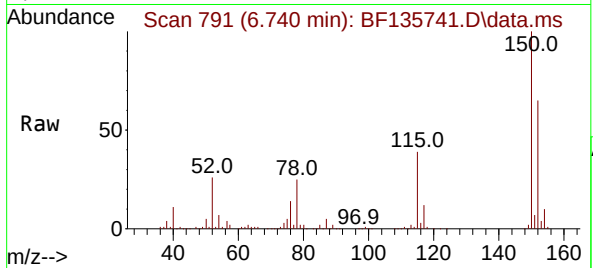
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 795
Delta R.T. 0.001 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

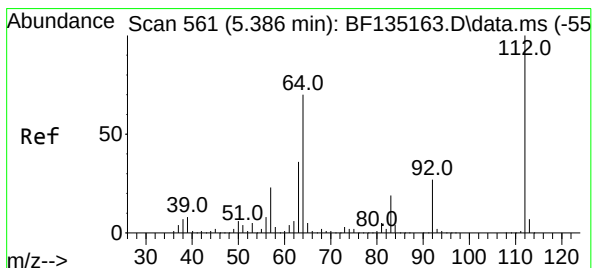
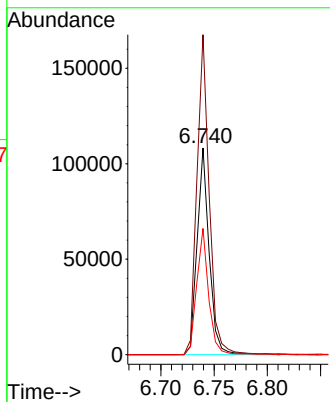
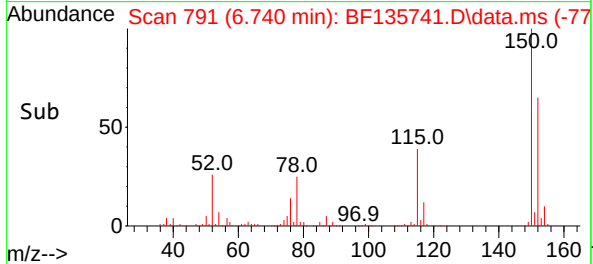
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)



Tgt Ion:152 Resp: 8567
Ion Ratio Lower Upper
152 100
150 154.8 127.8 191.6
115 61.1 49.8 74.8

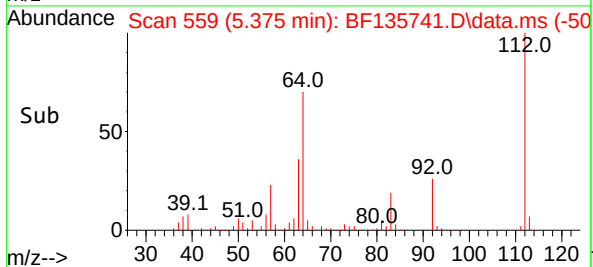
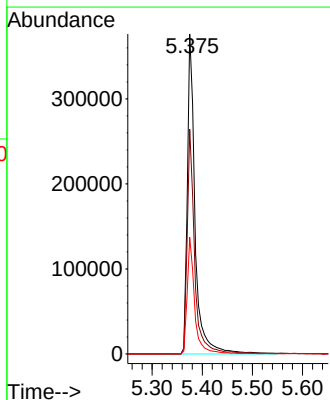
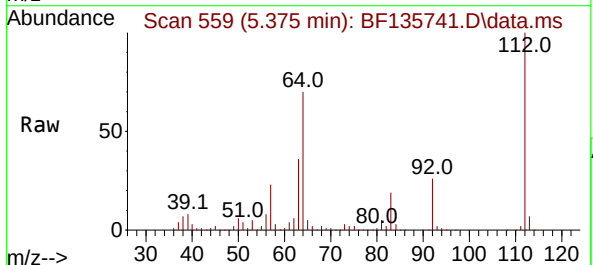
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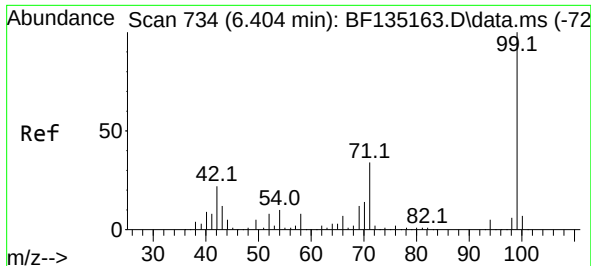
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#5
2-Fluorophenol
Concen: 77.614 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:112 Resp: 408823
Ion Ratio Lower Upper
112 100
64 70.2 55.9 83.9
63 36.5 29.0 43.6





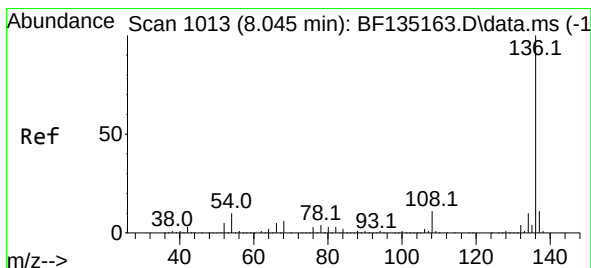
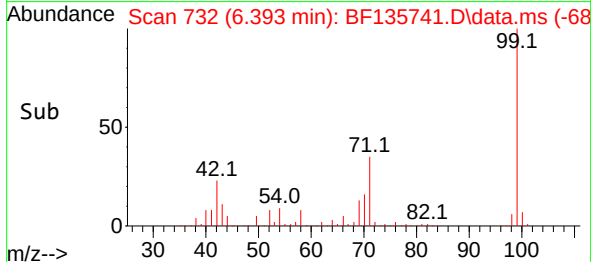
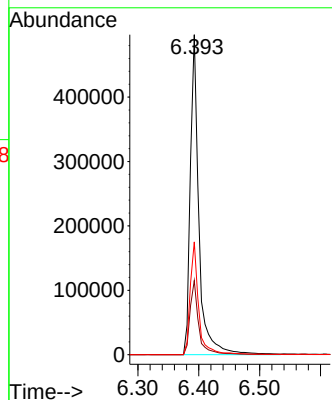
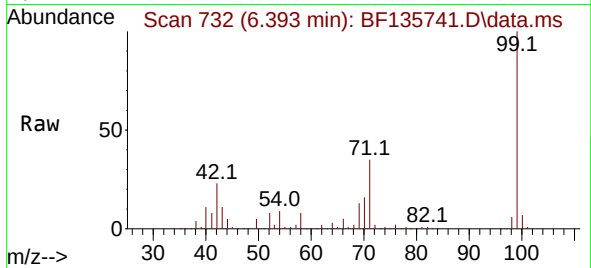
#7
Phenol-d6
Concen: 72.883 ng
RT: 6.393 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

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

Tgt Ion: 99 Resp: 488152
Ion Ratio Lower Upper
99 100
42 23.2 17.9 26.9
71 35.3 27.0 40.6

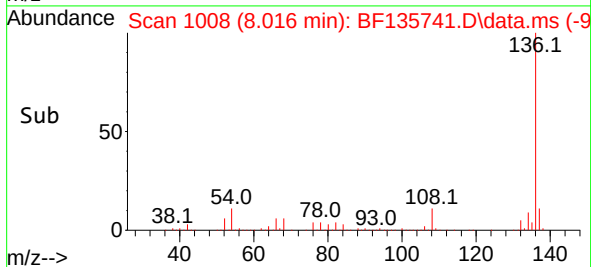
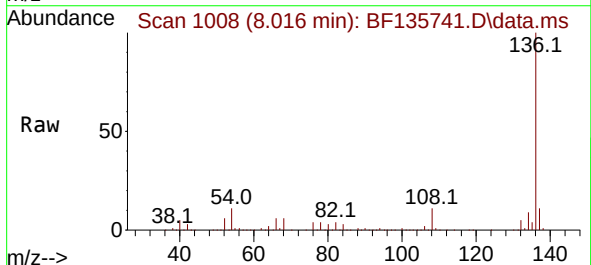
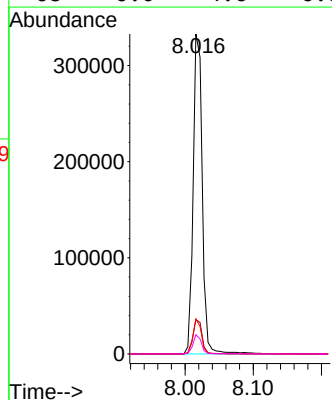
Manual Integrations
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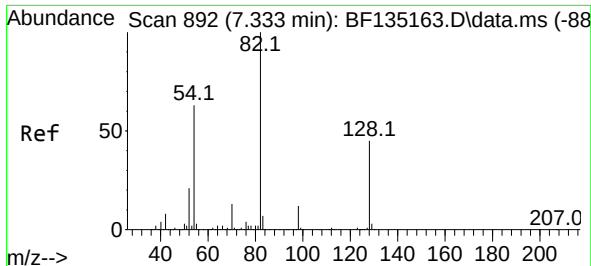
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:136 Resp: 306172
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 10.9 7.7 11.5
68 6.0 4.6 6.8





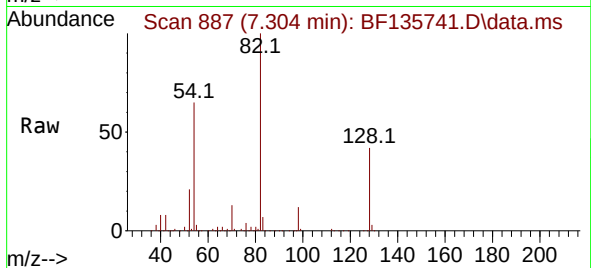
#23
Nitrobenzene-d5
Concen: 55.141 ng
RT: 7.304 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

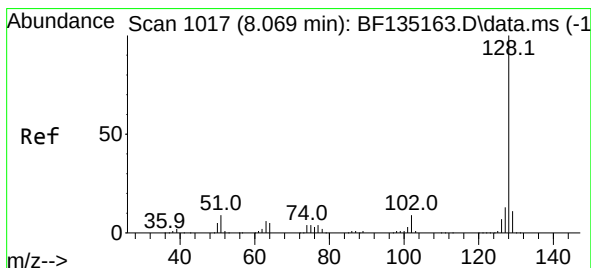
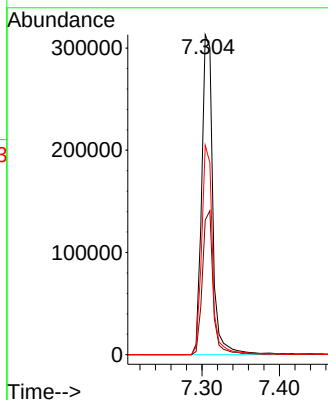
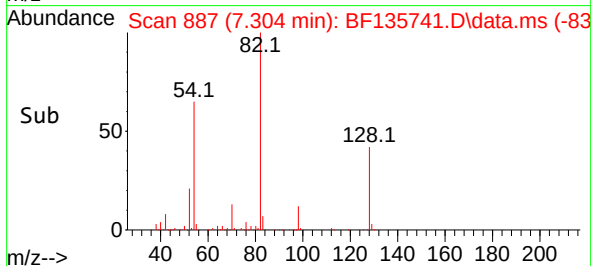


Tgt Ion: 82 Resp: 310745
Ion Ratio Lower Upper
82 100
128 42.0 35.8 53.6
54 65.5 50.6 76.0

Manual Integrations

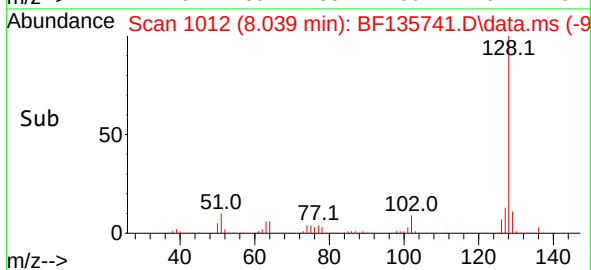
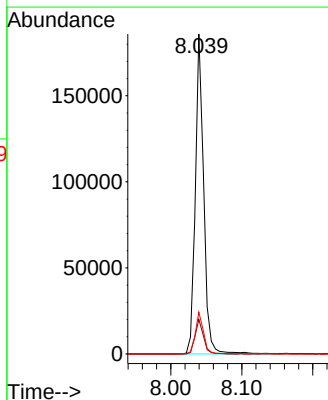
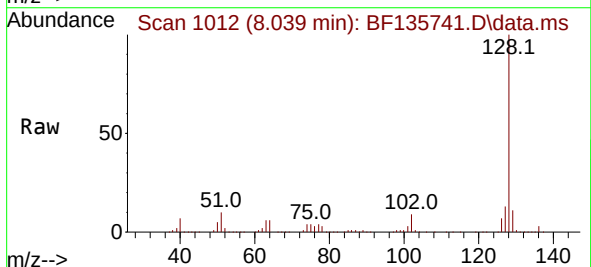
APPROVED

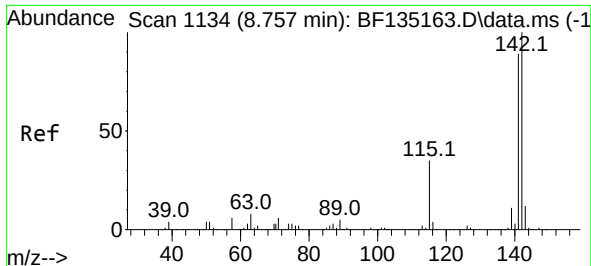
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#31
Naphthalene
Concen: 10.284 ng
RT: 8.039 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:128 Resp: 152984
Ion Ratio Lower Upper
128 100
129 10.8 8.7 13.1
127 13.1 10.7 16.1





#37

2-Methylnaphthalene

Concen: 4.212 ng

RT: 8.734 min Scan# 1130

Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

Tgt Ion:142 Resp: 4212

Ion Ratio Lower Upper

142 100

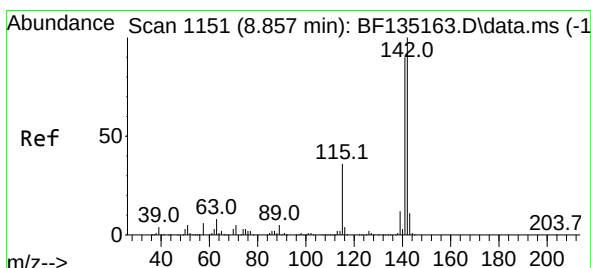
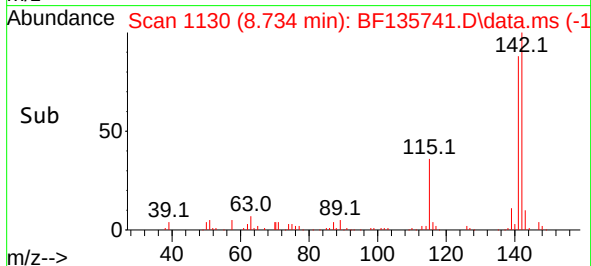
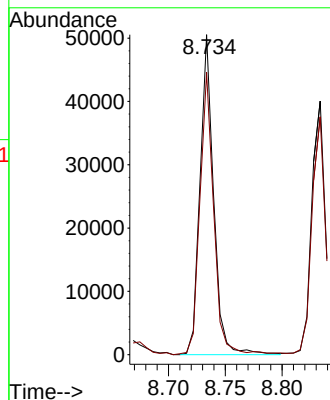
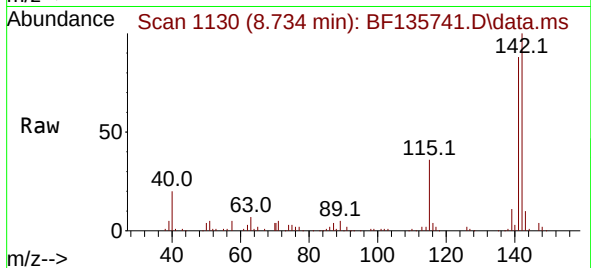
141 88.2 71.0 106.6

Manual Integrations

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Supervised By :mohammad ahmed 10/13/2023



#38

1-Methylnaphthalene

Concen: 3.766 ng

RT: 8.834 min Scan# 1147

Delta R.T. 0.000 min

Lab File: BF135741.D

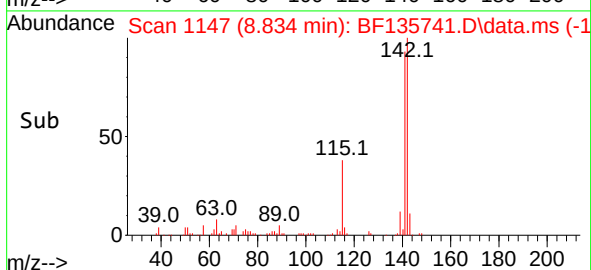
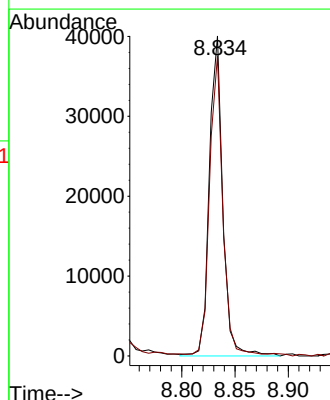
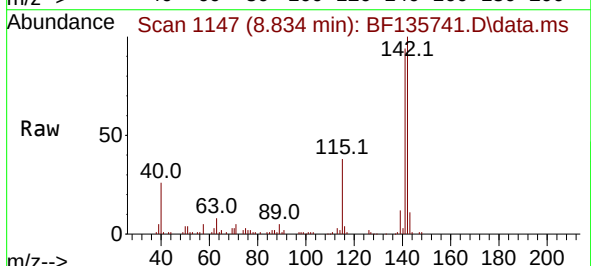
Acq: 12 Oct 2023 18:33

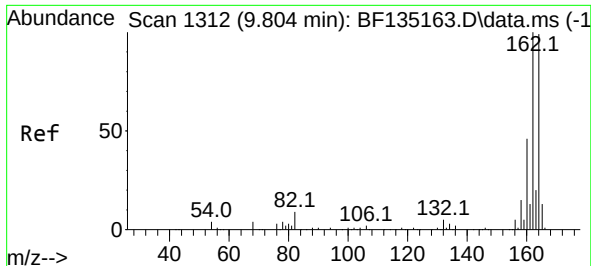
Tgt Ion:142 Resp: 35255

Ion Ratio Lower Upper

142 100

141 93.8 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

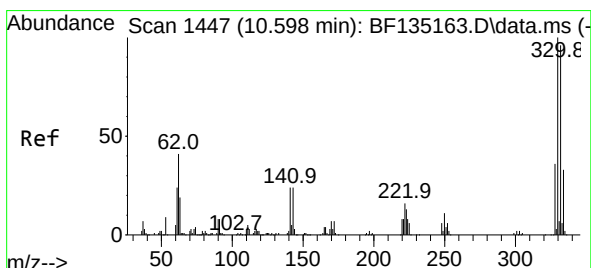
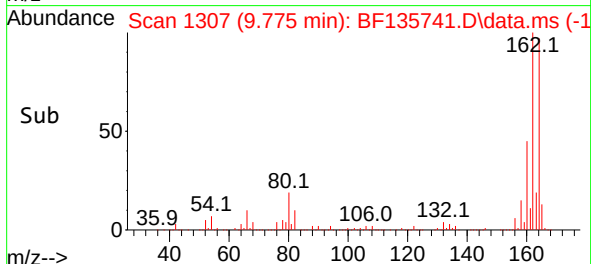
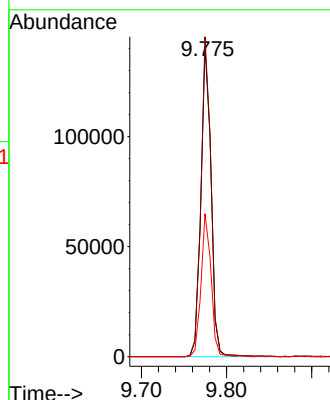
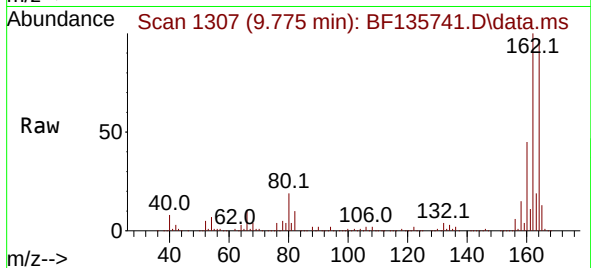
U-2(0-2IN)

Tgt Ion:164	Resp:	116864
Ion Ratio	Lower	Upper
164	100	
162	103.1	81.0 121.4
160	46.1	37.0 55.4

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 80.153 ng

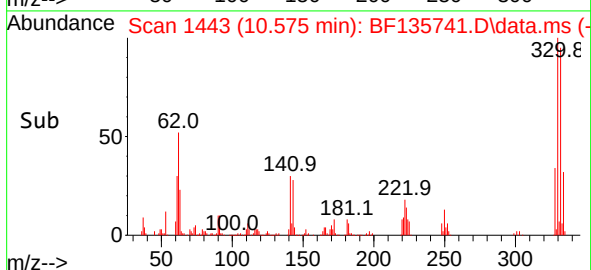
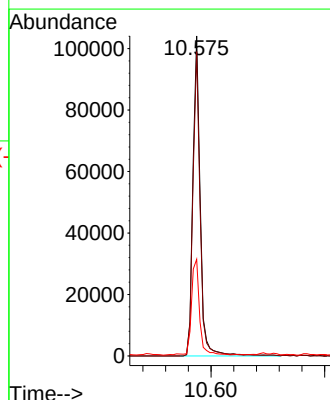
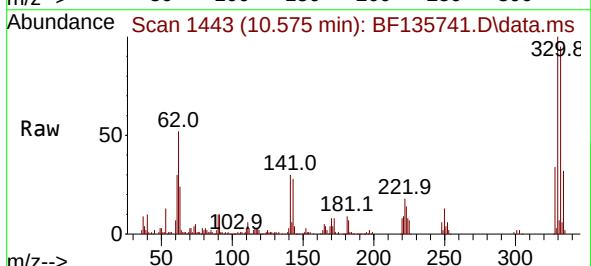
RT: 10.575 min Scan# 1443

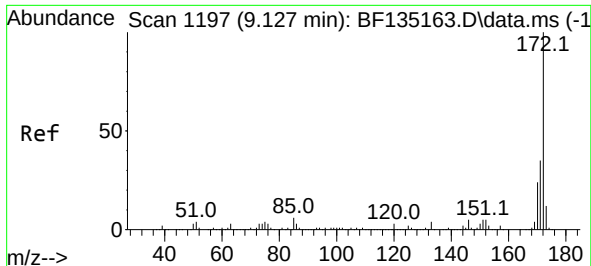
Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Tgt Ion:330	Resp:	93085
Ion Ratio	Lower	Upper
330	100	
332	93.9	77.3 115.9
141	32.9	25.8 38.8





#45

2-Fluorobiphenyl

Concen: 53.574 ng

RT: 9.098 min Scan# 1197

Delta R.T. 0.000 min

Lab File: BF135741.D

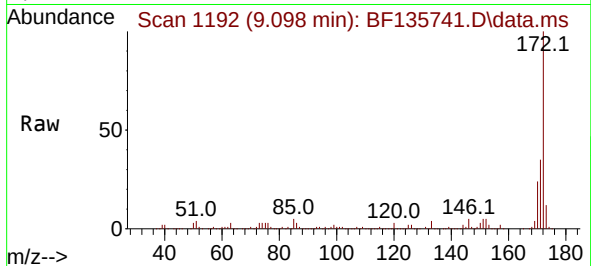
Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)



Tgt Ion:172 Resp: 414980

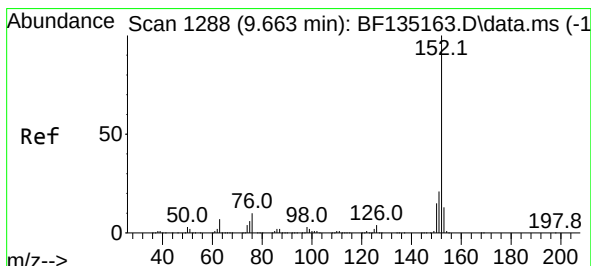
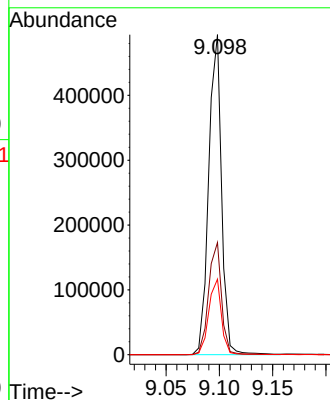
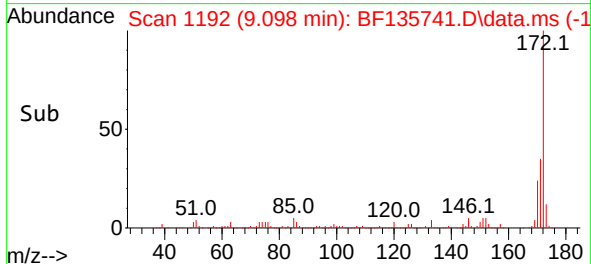
Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.4	42.6
170	23.6	19.0	28.4

Manual Integrations

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Supervised By :mohammad ahmed 10/13/2023



#49

Acenaphthylene

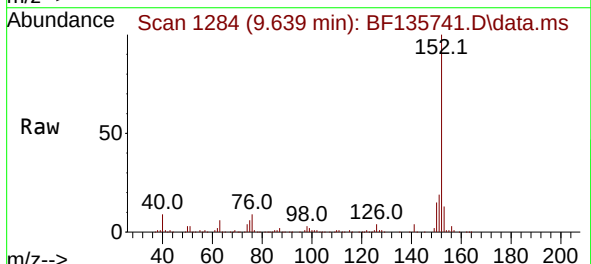
Concen: 9.786 ng

RT: 9.639 min Scan# 1284

Delta R.T. 0.000 min

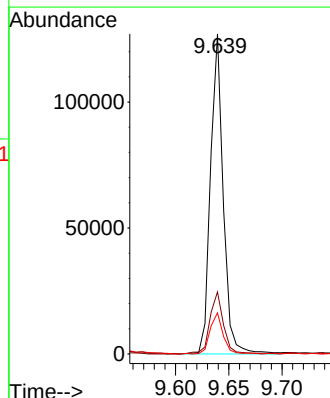
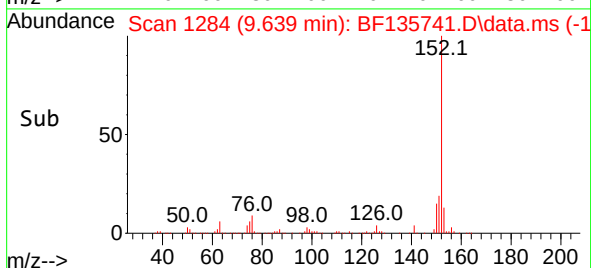
Lab File: BF135741.D

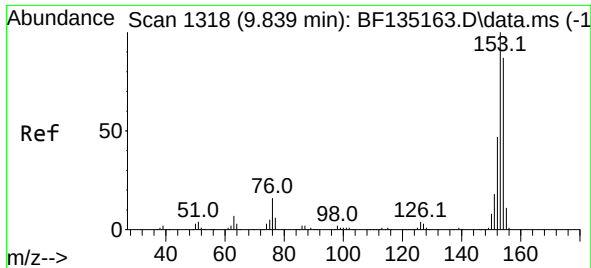
Acq: 12 Oct 2023 18:33



Tgt Ion:152 Resp: 105975

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.4	24.6
153	12.8	10.4	15.6





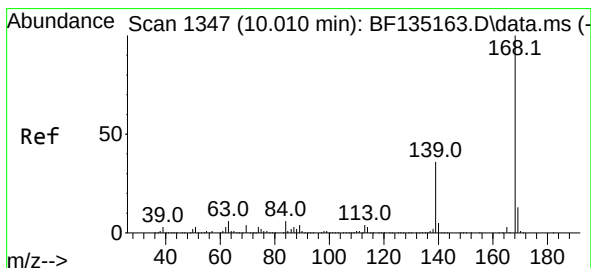
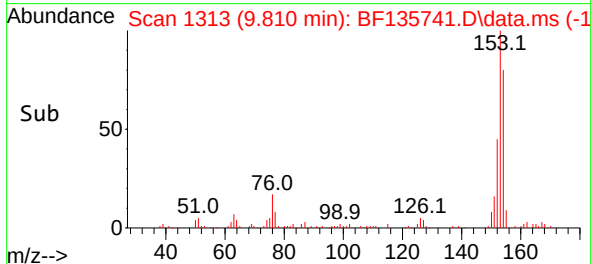
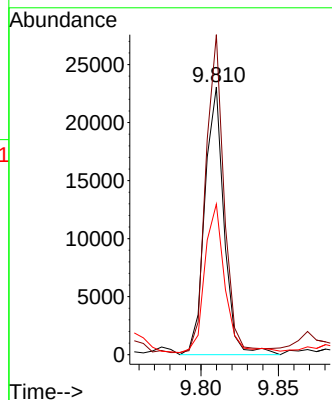
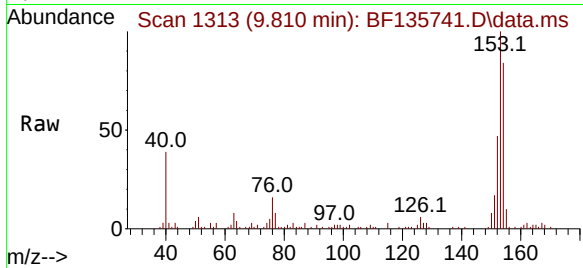
#52
Acenaphthene
Concen: 3.114 ng
RT: 9.810 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

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

Tgt Ion:154 Resp: 19919
Ion Ratio Lower Upper
154 100
153 119.6 92.1 138.1
152 56.3 43.1 64.7

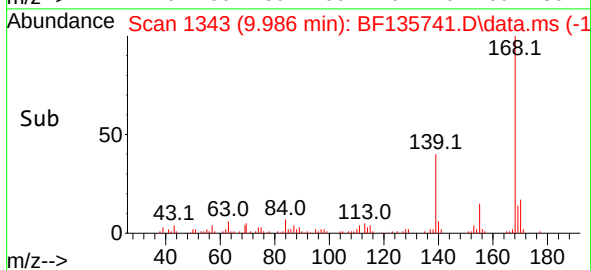
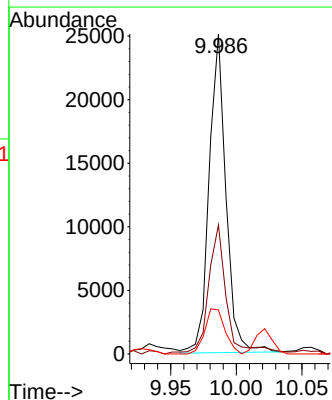
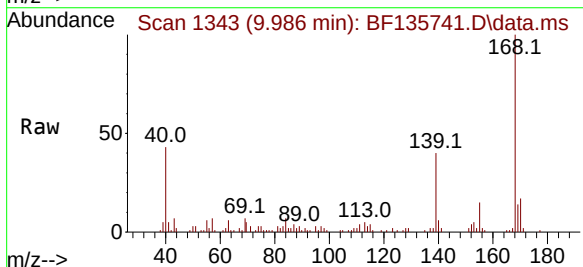
Manual Integrations
APPROVED

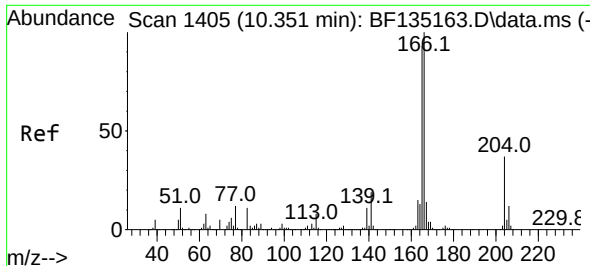
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#55
Dibenzofuran
Concen: 2.296 ng
RT: 9.986 min Scan# 1343
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

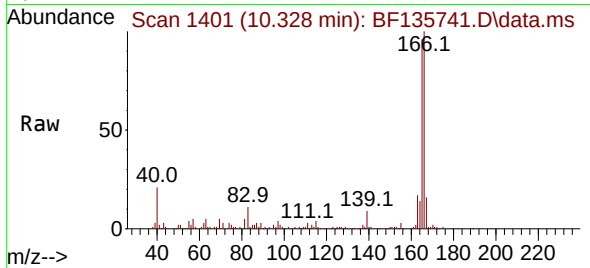
Tgt Ion:168 Resp: 22413
Ion Ratio Lower Upper
168 100
139 40.3 29.0 43.6
169 13.7 10.4 15.6





#58
Fluorene
Concen: 6.052 ng
RT: 10.328 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

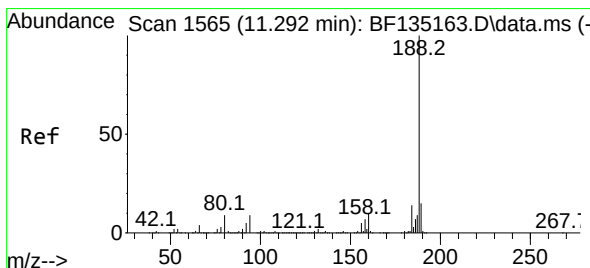
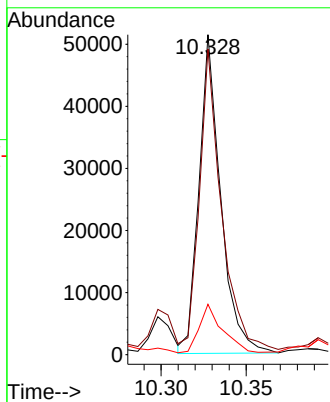
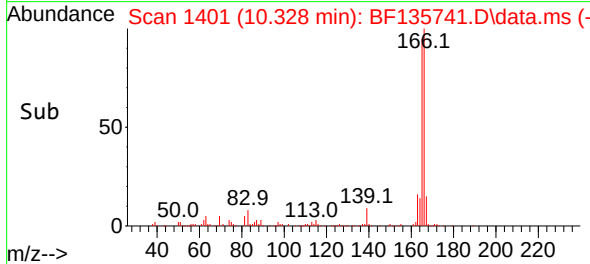
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)



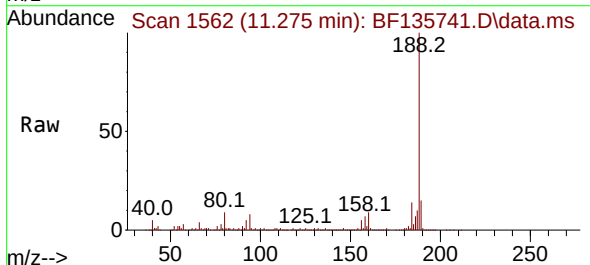
Tgt Ion:166 Resp: 4542
Ion Ratio Lower Upper
166 100
165 95.6 74.3 111.5
167 15.7 10.9 16.3

Manual Integrations
APPROVED

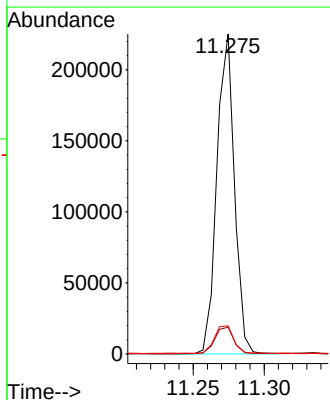
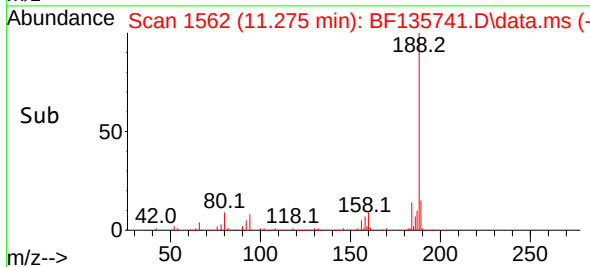
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

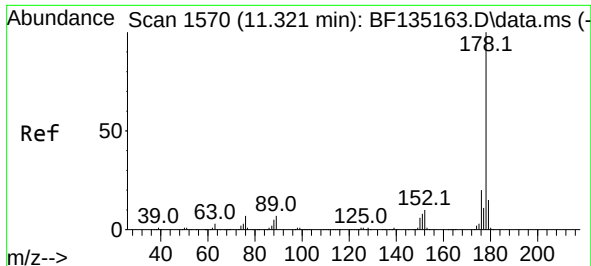


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.275 min Scan# 1562
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33



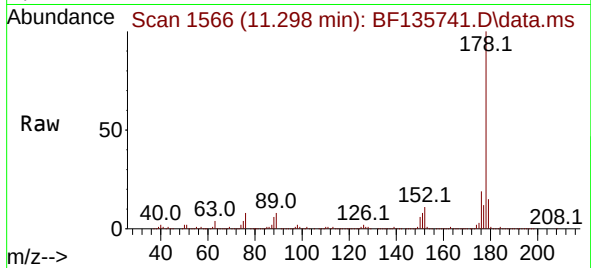
Tgt Ion:188 Resp: 193426
Ion Ratio Lower Upper
188 100
94 8.4 7.0 10.6
80 8.8 7.5 11.3





#71
Phenanthrene
Concen: 51.902 ng
RT: 11.298 min Scan# 1566
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

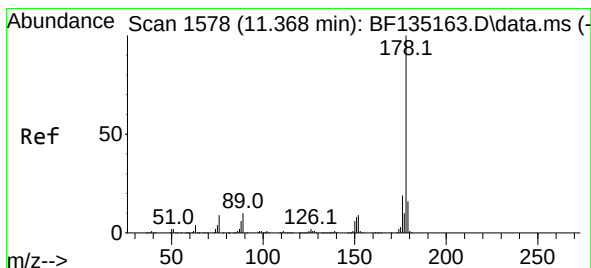
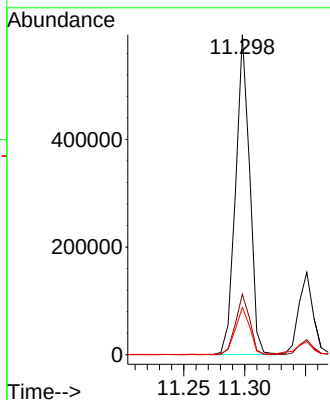
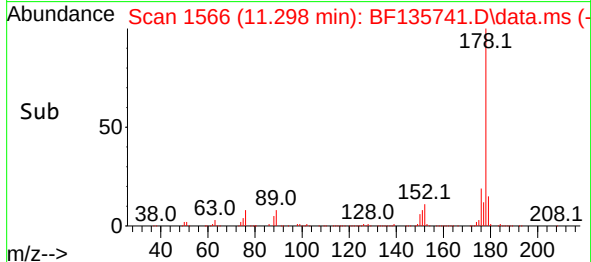
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)



Tgt Ion:178 Resp: 47481
Ion Ratio Lower Upper
178 100
176 18.9 15.6 23.4
179 14.8 12.0 18.0

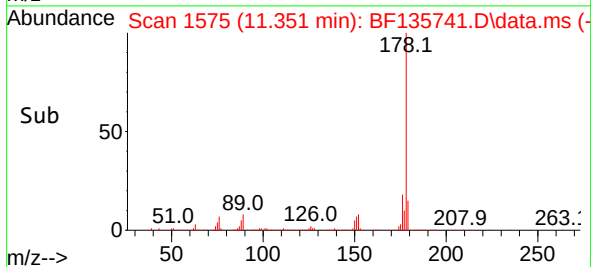
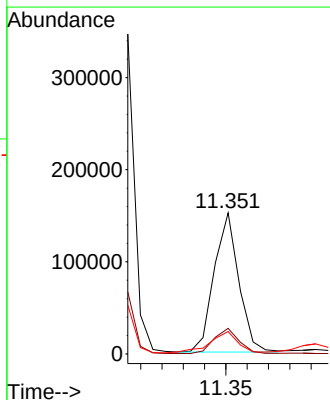
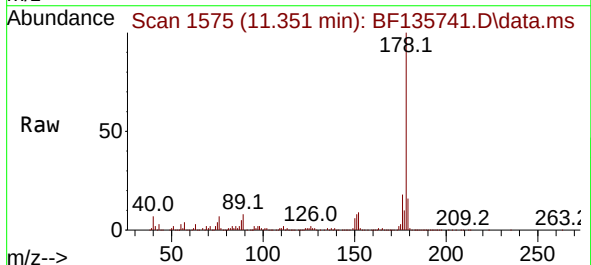
Manual Integrations
APPROVED

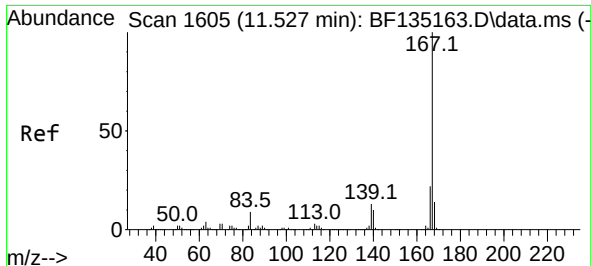
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#72
Anthracene
Concen: 12.955 ng
RT: 11.351 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

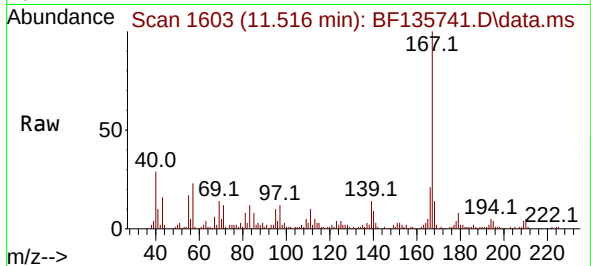
Tgt Ion:178 Resp: 121817
Ion Ratio Lower Upper
178 100
176 18.2 15.4 23.2
179 15.9 12.6 19.0





#73
 Carbazole
 Concen: 3.891 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. 0.000 min
 Lab File: BF135741.D
 Acq: 12 Oct 2023 18:33

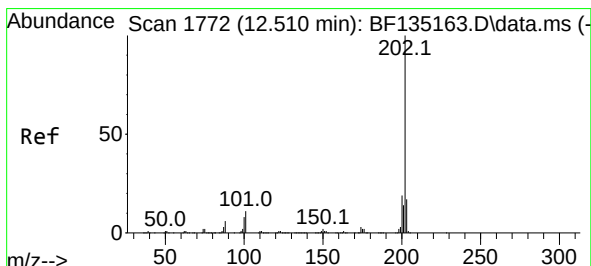
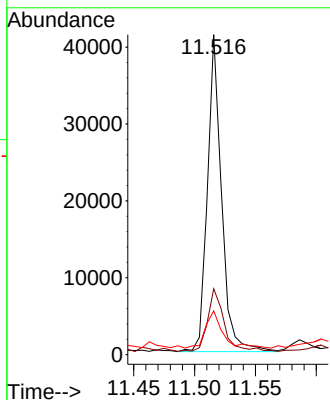
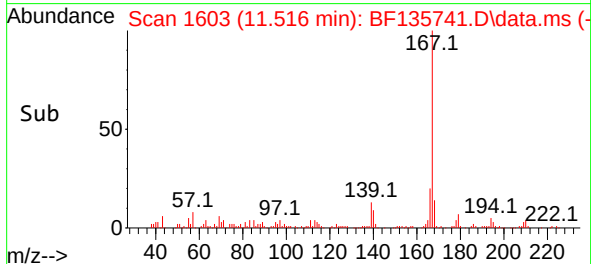
Instrument :
 BNA_F
 ClientSampleId :
 U-2(0-2IN)



Tgt Ion:167 Resp: 33310
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.4 26.0
 139 13.7 10.6 15.8

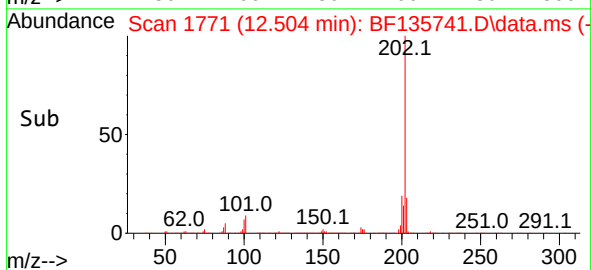
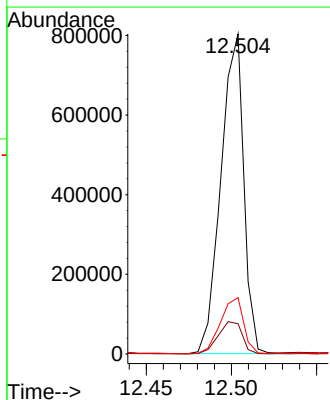
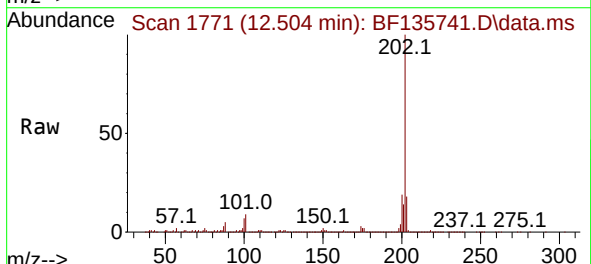
Manual Integrations
 APPROVED

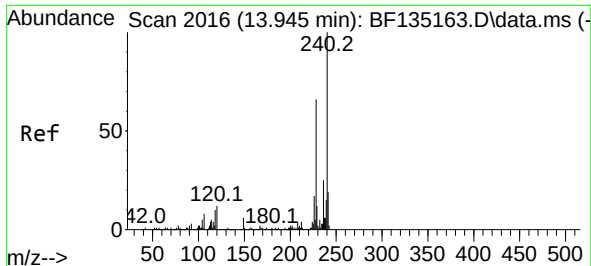
Reviewed By :Yogesh Patel 10/13/2023
 Supervised By :mohammad ahmed 10/13/2023



#75
 Fluoranthene
 Concen: 78.646 ng
 RT: 12.504 min Scan# 1771
 Delta R.T. 0.006 min
 Lab File: BF135741.D
 Acq: 12 Oct 2023 18:33

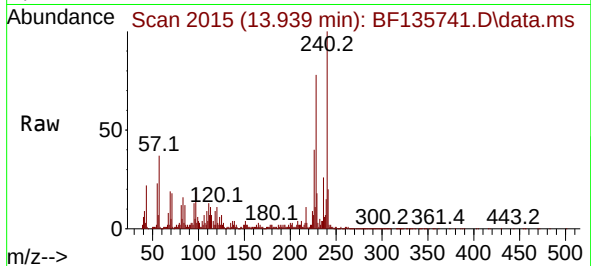
Tgt Ion:202 Resp: 749679
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 31.3
 203 17.6 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

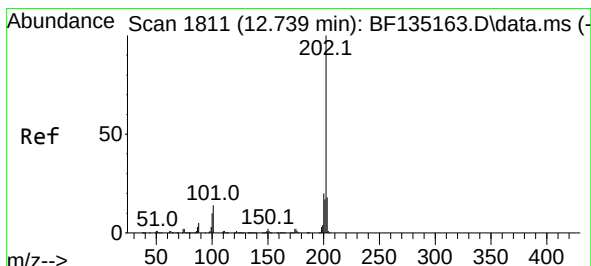
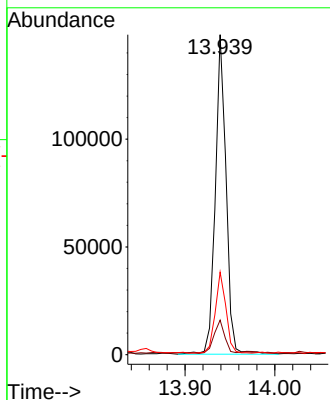
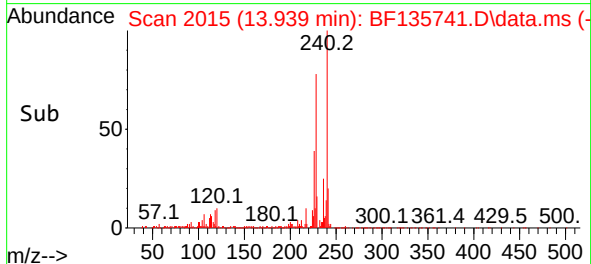
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)



Tgt Ion:240 Resp: 12369
Ion Ratio Lower Upper
240 100
120 10.8 9.4 14.2
236 25.8 19.8 29.8

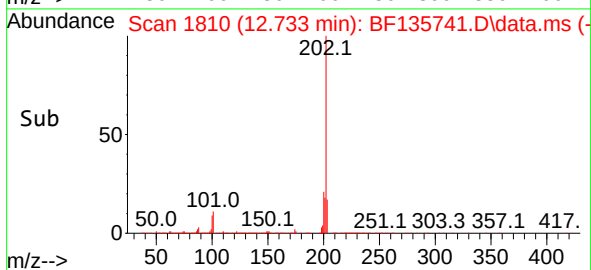
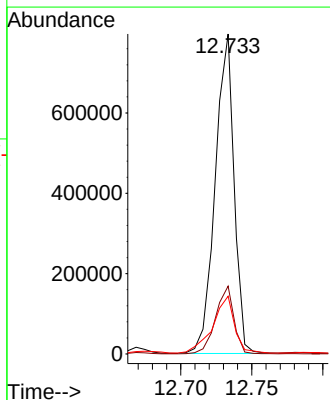
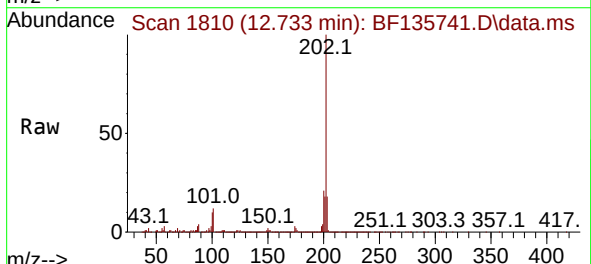
Manual Integrations
APPROVED

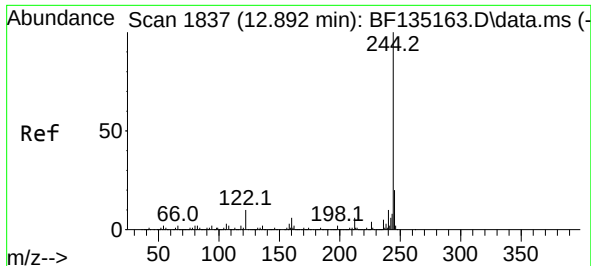
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#78
Pyrene
Concen: 62.346 ng
RT: 12.733 min Scan# 1810
Delta R.T. 0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:202 Resp: 734220
Ion Ratio Lower Upper
202 100
200 21.2 16.2 24.2
203 18.1 14.2 21.4





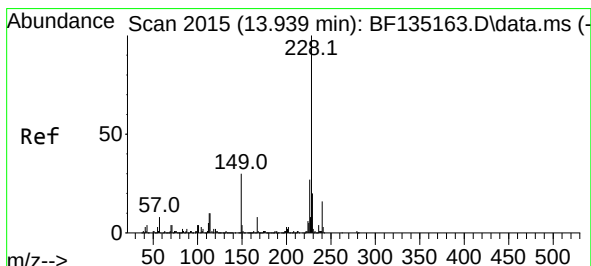
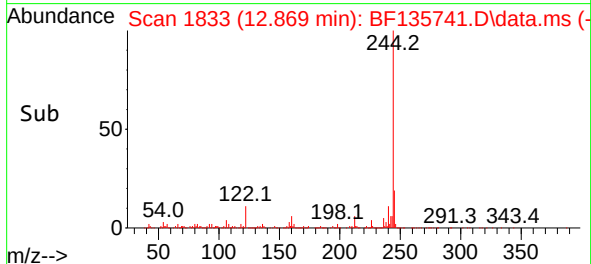
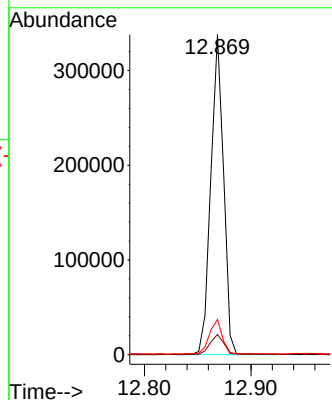
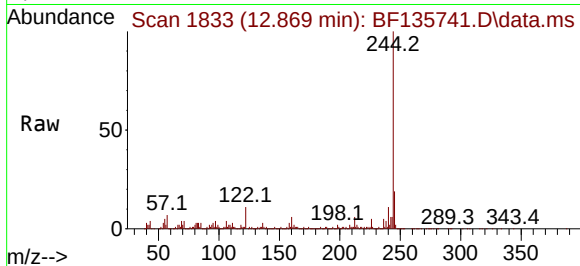
#79
Terphenyl-d14
Concen: 35.250 ng
RT: 12.869 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

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

Tgt Ion:244 Resp: 28127
Ion Ratio Lower Upper
244 100
212 6.3 5.1 7.7
122 10.9 7.9 11.9

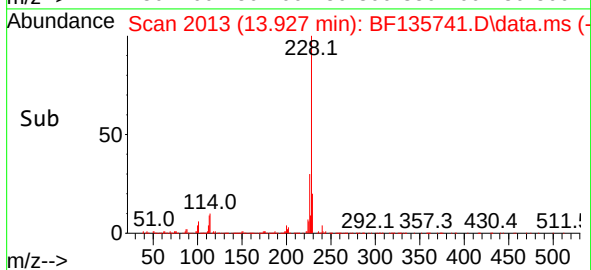
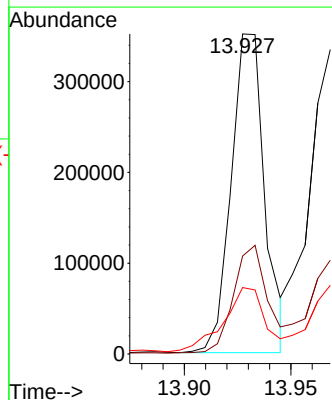
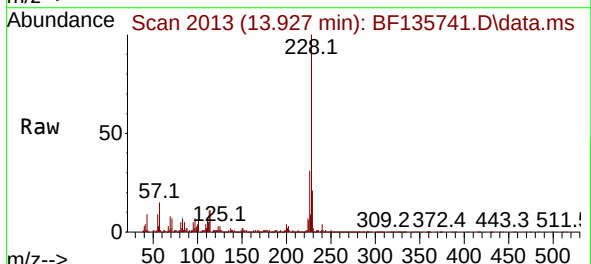
Manual Integrations
APPROVED

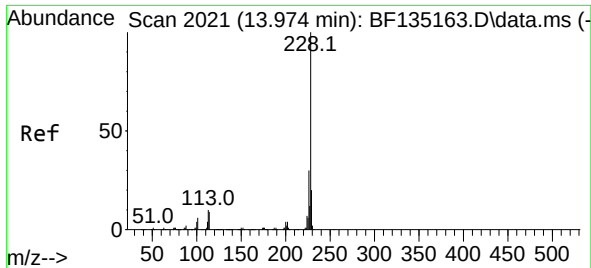
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#81
Benzo(a)anthracene
Concen: 48.142 ng
RT: 13.927 min Scan# 2013
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

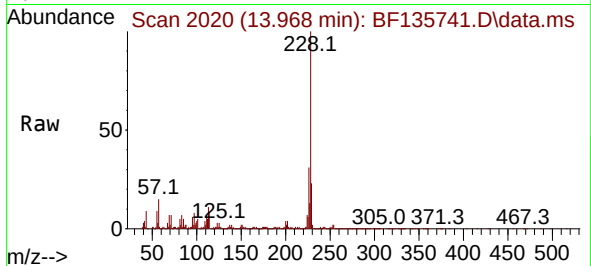
Tgt Ion:228 Resp: 384519
Ion Ratio Lower Upper
228 100
226 30.6 21.7 32.5
229 20.8 15.8 23.8





#83
Chrysene
Concen: 42.769 ng
RT: 13.968 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

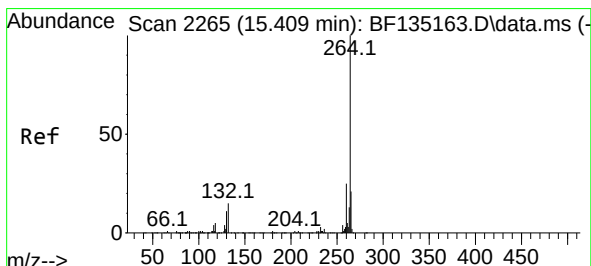
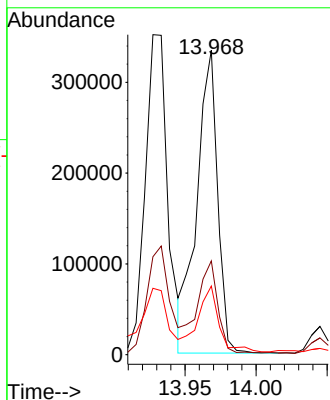
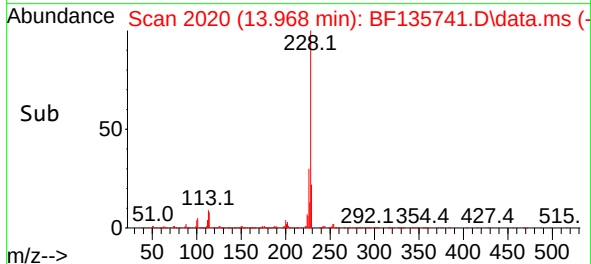
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)



Tgt Ion:228 Resp: 33963
Ion Ratio Lower Upper
228 100
226 30.8 24.3 36.5
229 22.5 16.0 24.0

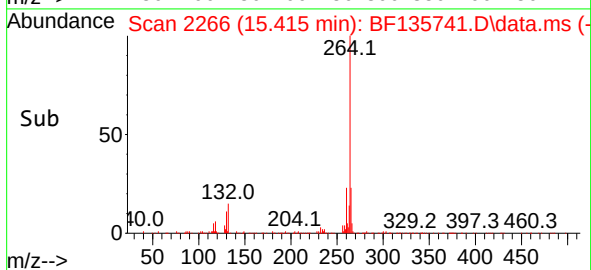
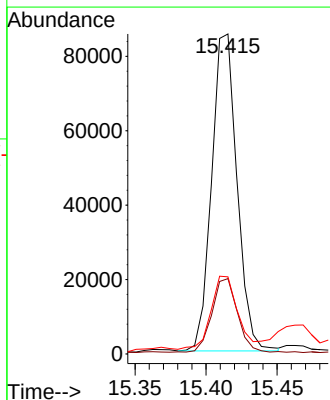
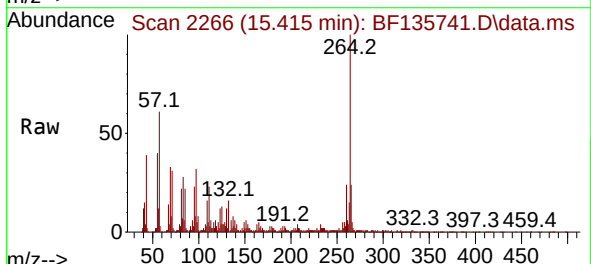
Manual Integrations
APPROVED

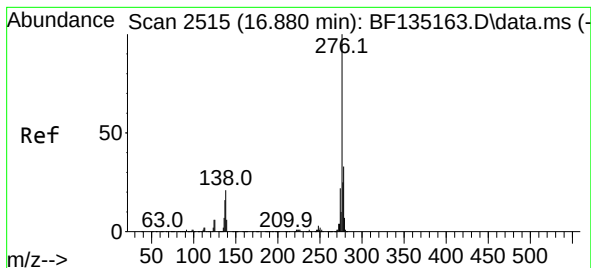
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.012 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:264 Resp: 105835
Ion Ratio Lower Upper
264 100
260 23.5 19.8 29.6
265 24.1 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 20.096 ng

RT: 16.909 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

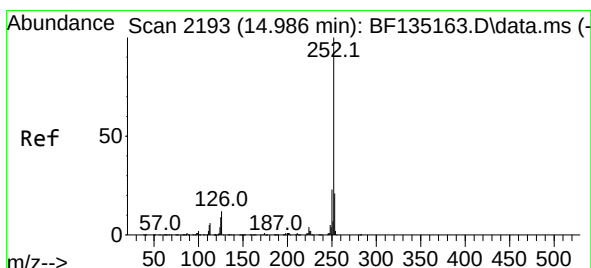
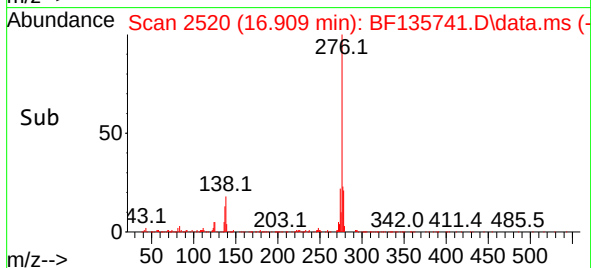
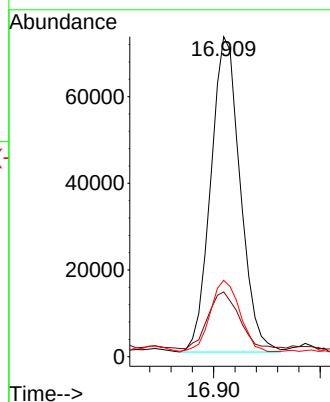
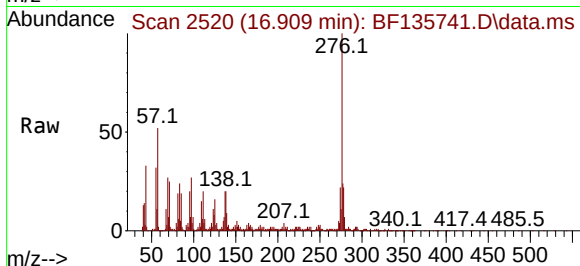
Tgt Ion:	276	Resp:	139450
Ion Ratio	Lower	Upper	
276	100		
138	20.2	19.2	28.8
277	22.5	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/13/2023

Supervised By :mohammad ahmed 10/13/2023



#88

Benzo(b)fluoranthene

Concen: 59.487 ng m

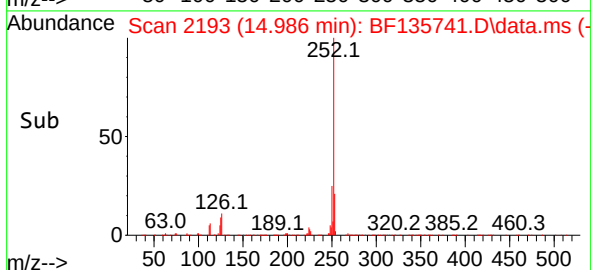
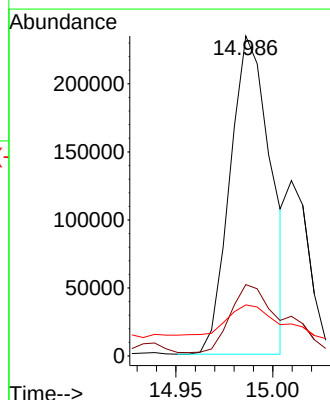
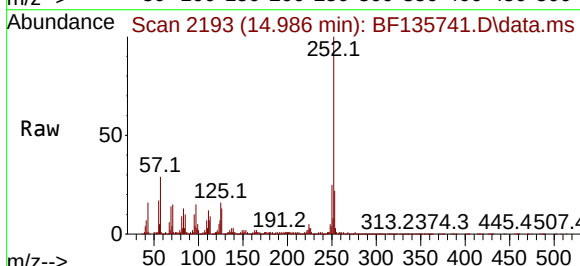
RT: 14.986 min Scan# 2193

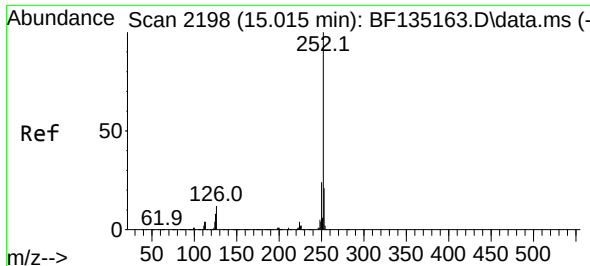
Delta R.T. 0.006 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

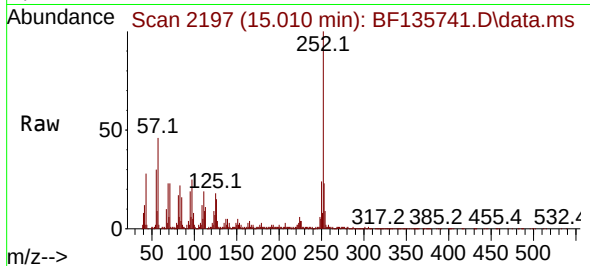
Tgt Ion:	252	Resp:	340816
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.2	25.8
125	15.9	7.1	10.7





#89
Benzo(k)fluoranthene
Concen: 18.450 ng m
RT: 15.010 min Scan# 2198
Delta R.T. 0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

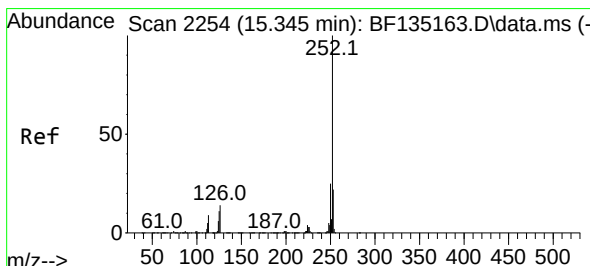
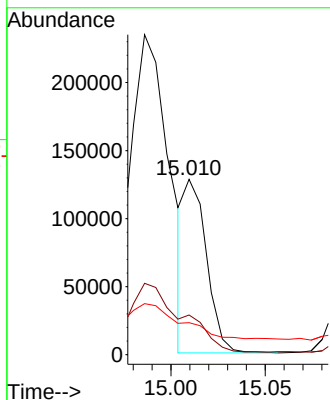
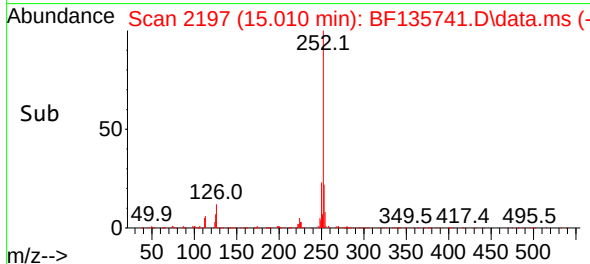
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)



Tgt Ion:252 Resp: 104417
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 18.3 7.2 10.8

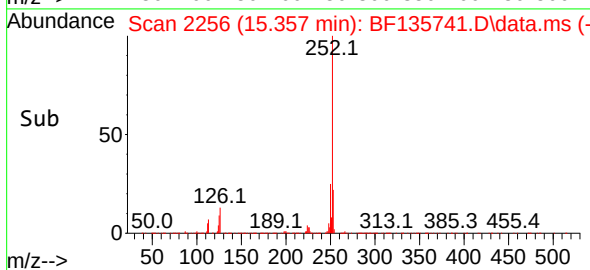
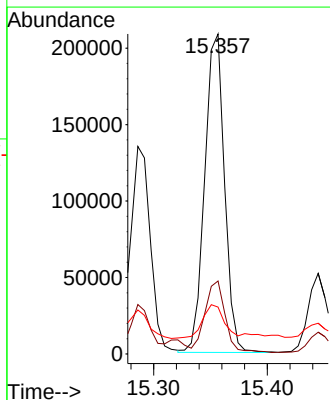
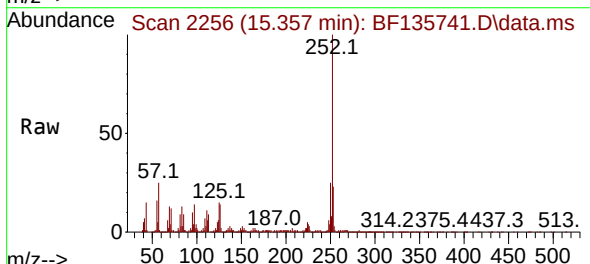
Manual Integrations
APPROVED

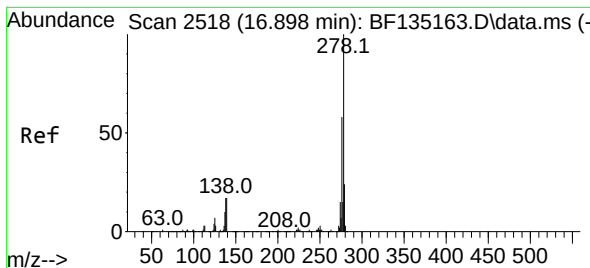
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#90
Benzo(a)pyrene
Concen: 46.172 ng
RT: 15.357 min Scan# 2256
Delta R.T. 0.012 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:252 Resp: 252265
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 14.7 9.2 13.8





#91

Dibenzo(a,h)anthracene

Concen: 6.868 ng

RT: 16.909 min Scan# 2520

Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

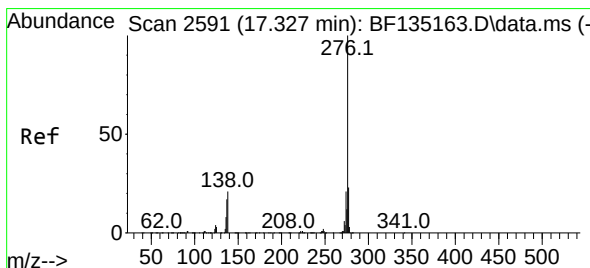
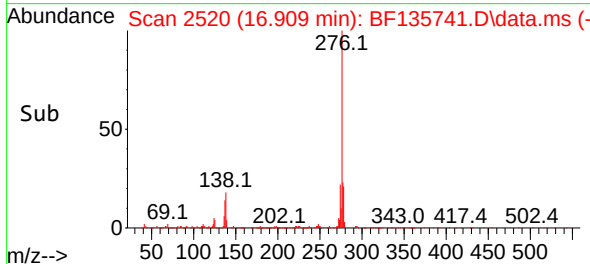
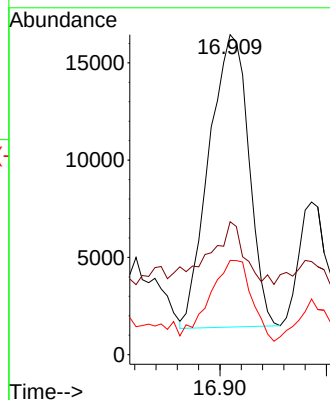
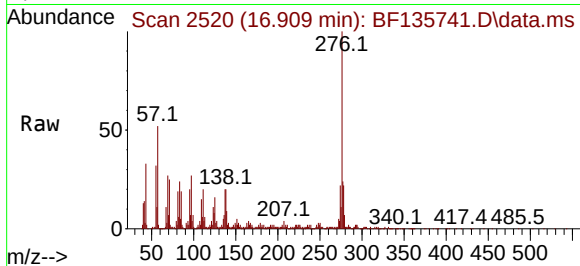
Tgt Ion:	278	Resp:	3899
Ion Ratio	Lower	Upper	
278	100		
139	41.5	13.4	20.0
279	29.4	19.0	28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/13/2023

Supervised By :mohammad ahmed 10/13/2023



#92

Benzo(g,h,i)perylene

Concen: 20.615 ng

RT: 17.362 min Scan# 2597

Delta R.T. 0.012 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Tgt Ion:	276	Resp:	122244
Ion Ratio	Lower	Upper	
276	100		
277	22.7	18.8	28.2
138	21.9	16.9	25.3

