

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100223\
 Data File : BF135535.D
 Acq On : 02 Oct 2023 19:18
 Operator : CG\JU
 Sample : 04636-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-09272023

Manual Integrations
 APPROVED

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

Quant Time: Oct 03 02:57:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 30 00:12:20 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	157825	20.000	ng	-0.01
21) Naphthalene-d8	8.022	136	561700	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	241324	20.000	ng	-0.01
64) Phenanthrene-d10	11.269	188	385562	20.000	ng	# 0.00
76) Chrysene-d12	13.927	240	280231	20.000	ng	# 0.00
86) Perylene-d12	15.392	264	254698	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	843526	86.929	ng	0.00
7) Phenol-d6	6.392	99	1042029	84.452	ng	-0.01
23) Nitrobenzene-d5	7.310	82	623420	60.299	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	160445	66.903	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	969475	60.610	ng	-0.01
79) Terphenyl-d14	12.863	244	768126	42.491	ng	-0.01
Target Compounds						
						Qvalue
31) Naphthalene	8.039	128	73696	2.700	ng	99
37) 2-Methylnaphthalene	8.733	142	40365	2.200	ng	99
38) 1-Methylnaphthalene	8.833	142	35022	2.039	ng	97
52) Acenaphthene	9.810	154	97050	7.346	ng	100
55) Dibenzofuran	9.980	168	108519	5.383	ng	97
58) Fluorene	10.327	166	146863	9.477	ng	98
71) Phenanthrene	11.298	178	845010	46.339	ng	99
72) Anthracene	11.345	178	285607	15.237	ng	97
73) Carbazole	11.510	167	95156	5.577	ng	98
75) Fluoranthene	12.492	202	967846	50.936	ng	98
78) Pyrene	12.721	202	840447	31.501	ng	99
81) Benzo(a)anthracene	13.921	228	403937	22.323	ng	99
83) Chrysene	13.957	228	369833	20.557	ng	98
87) Indeno(1,2,3-cd)pyrene	16.874	276	118137	7.074	ng	99
88) Benzo(b)fluoranthene	14.968	252	345870m	25.085	ng	
89) Benzo(k)fluoranthene	14.992	252	123418m	9.062	ng	
90) Benzo(a)pyrene	15.333	252	239881	18.244	ng	96
91) Dibenzo(a,h)anthracene	16.880	278	29385	2.151	ng	# 87
92) Benzo(g,h,i)perylene	17.327	276	110061	7.713	ng	96

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

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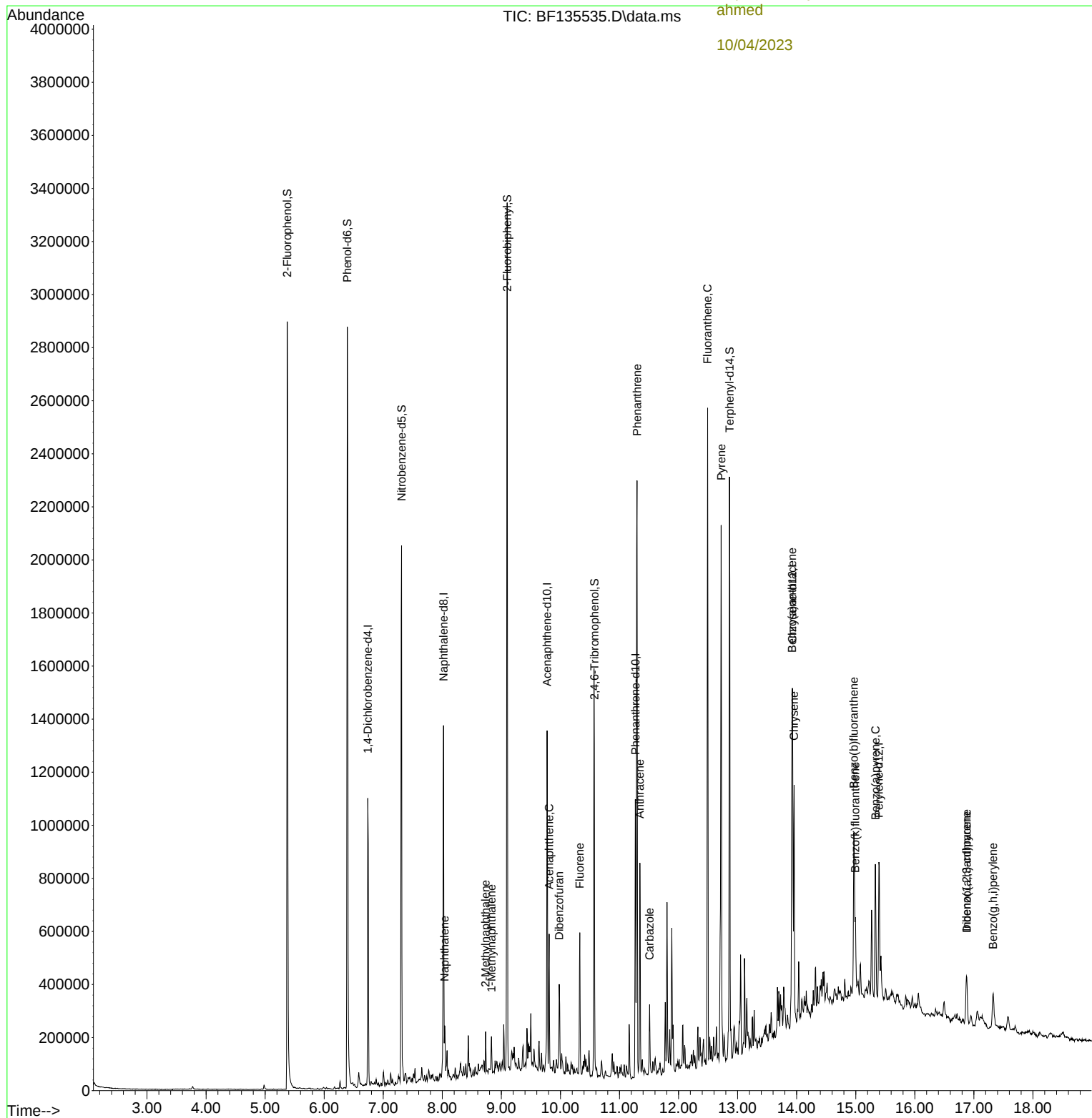
Quant Time: Oct 03 02:57:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 30 00:12:20 2023
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ahmed

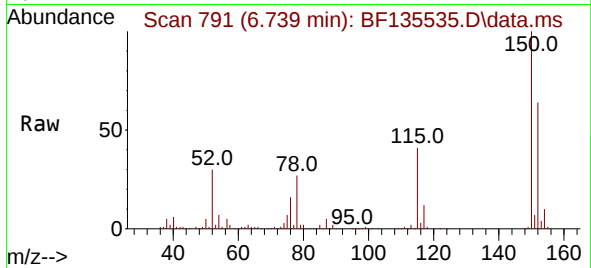
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



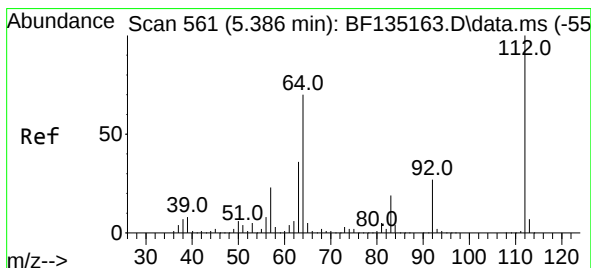
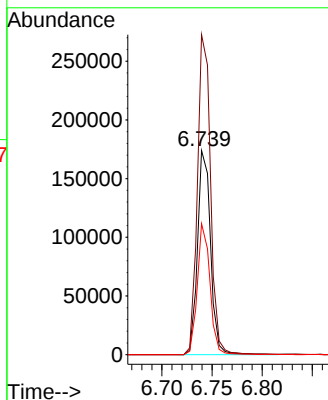
Tgt Ion:152 Resp: 157829
Ion Ratio Lower Upper
152 100
150 156.7 127.8 191.6
115 64.1 49.8 74.8

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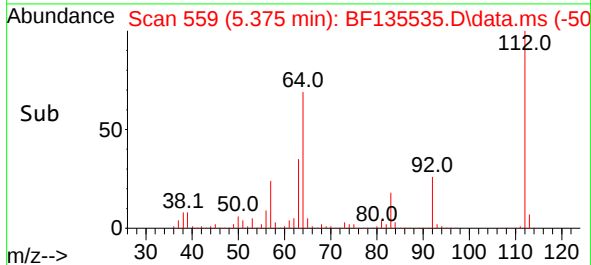
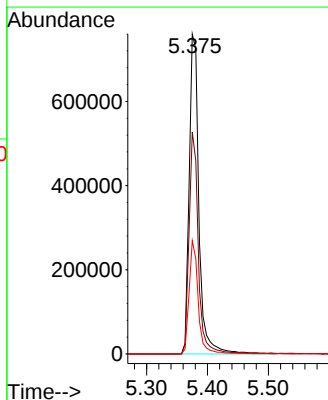
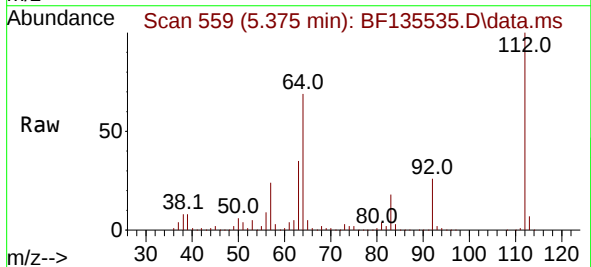
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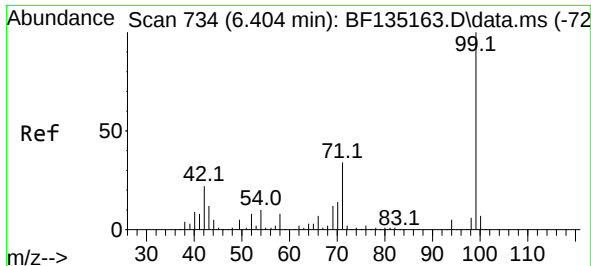
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#5
2-Fluorophenol
Concen: 86.929 ng
RT: 5.375 min Scan# 559
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

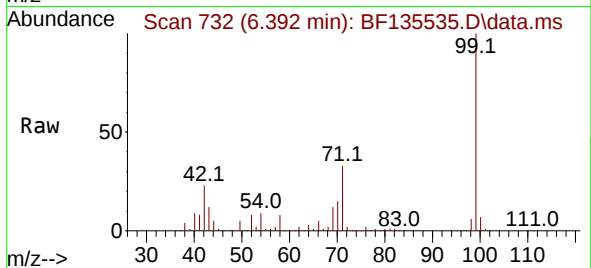
Tgt Ion:112 Resp: 843526
Ion Ratio Lower Upper
112 100
64 69.4 55.9 83.9
63 35.4 29.0 43.6





#7
Phenol-d6
Concen: 84.452 ng
RT: 6.392 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :
BNA_F
ClientSampleId :
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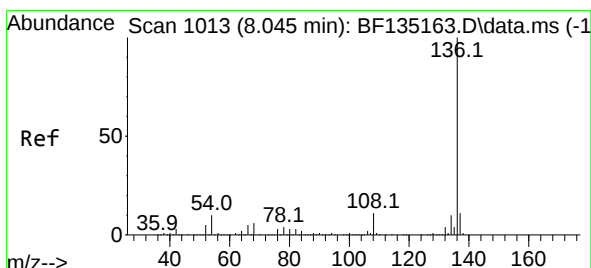
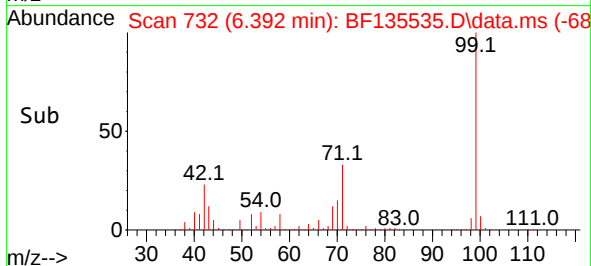
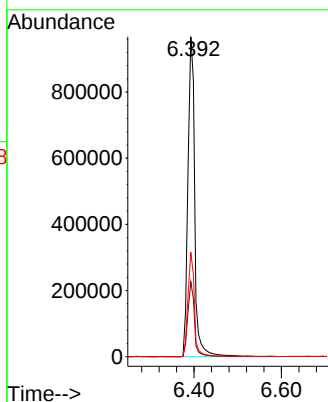
Tgt Ion: 99 Resp: 1042029
Ion Ratio Lower Upper
99 100
42 23.4 17.9 26.9
71 32.6 27.0 40.6

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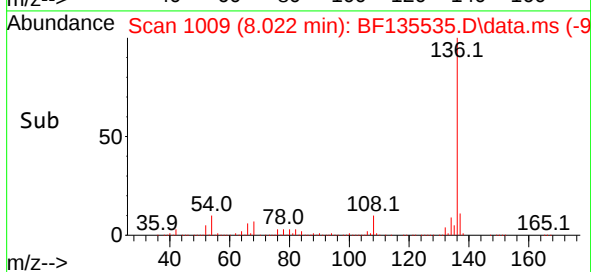
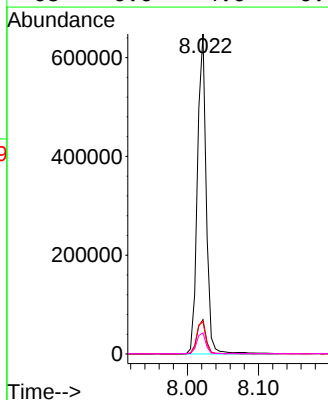
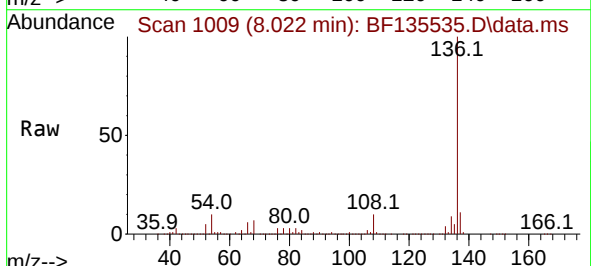
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:136 Resp: 561700
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 10.0 7.7 11.5
68 6.6 4.6 6.8





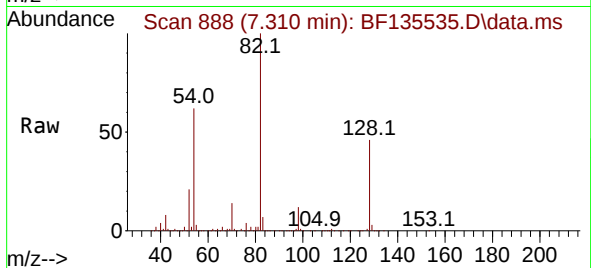
#23
Nitrobenzene-d5
Concen: 60.299 ng
RT: 7.310 min Scan# 88
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

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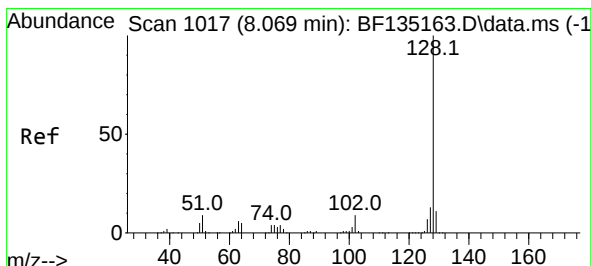
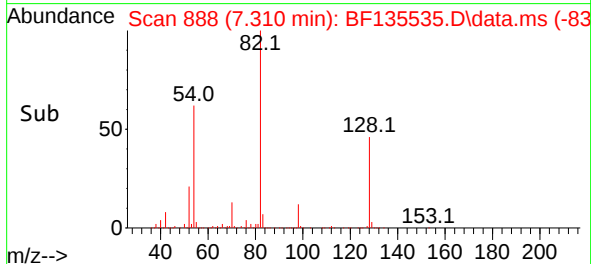
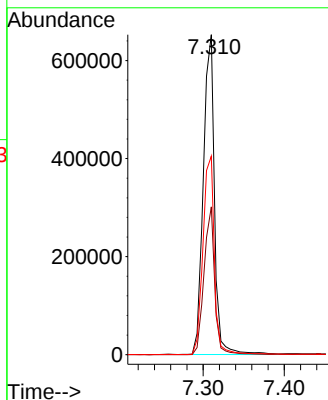
Tgt Ion: 82 Resp: 623420
Ion Ratio Lower Upper
82 100
128 46.2 35.8 53.6
54 62.0 50.6 76.0

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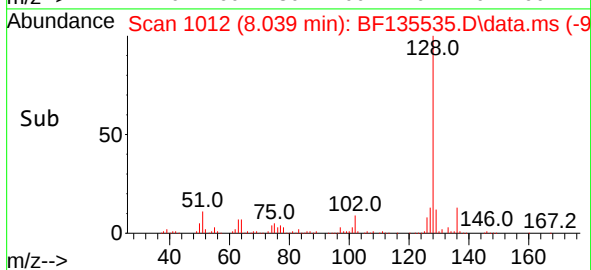
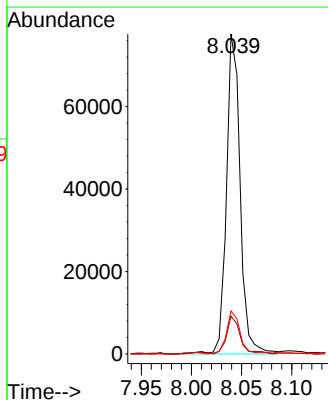
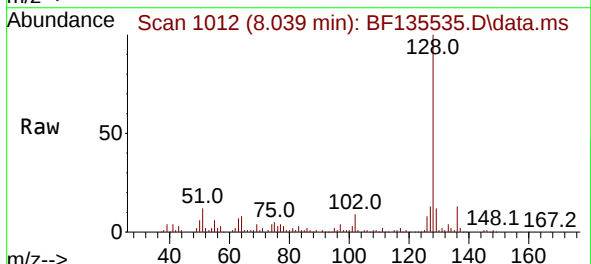
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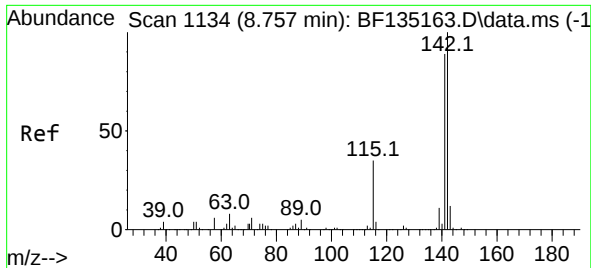
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#31
Naphthalene
Concen: 2.700 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

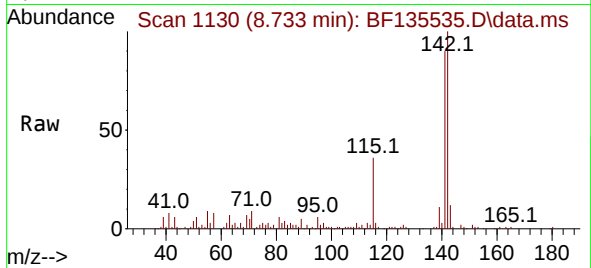
Tgt Ion:128 Resp: 73696
Ion Ratio Lower Upper
128 100
129 11.8 8.7 13.1
127 13.4 10.7 16.1





#37
2-Methylnaphthalene
Concen: 2.200 ng
RT: 8.733 min Scan# 1134
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

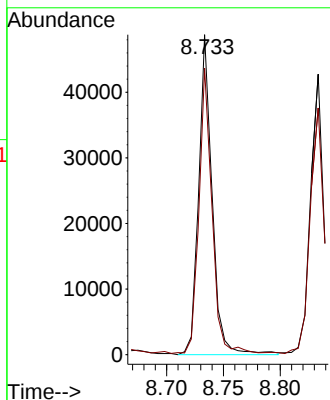
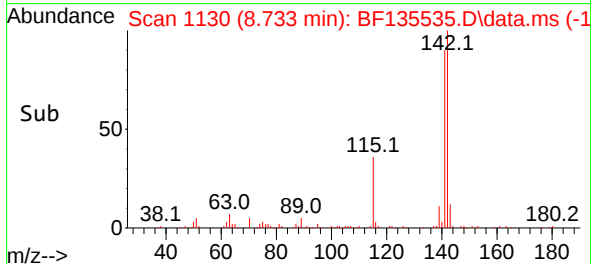
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



Tgt Ion:142 Resp: 4036
Ion Ratio Lower Upper
142 100
141 89.6 71.0 106.6

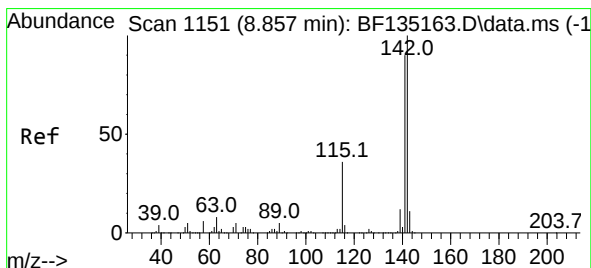
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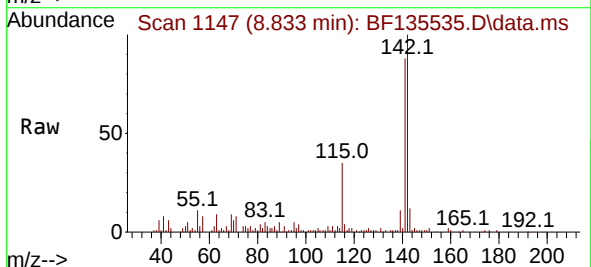


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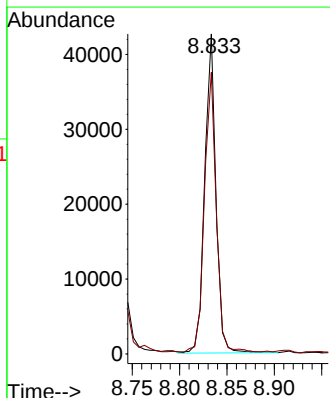
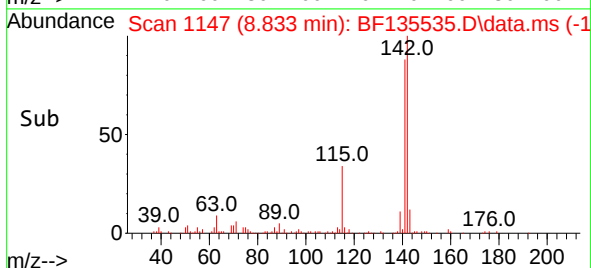
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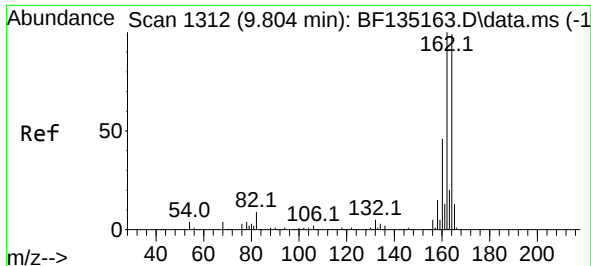


#38
1-Methylnaphthalene
Concen: 2.039 ng
RT: 8.833 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18



Tgt Ion:142 Resp: 35022
Ion Ratio Lower Upper
142 100
141 88.0 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF135535.D

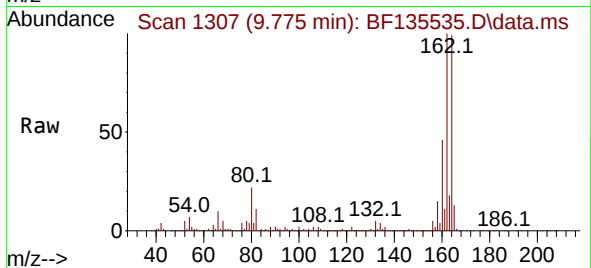
Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023



Tgt Ion:	164	Resp:	241324
Ion Ratio	Lower	Upper	
164	100		
162	101.0	81.0	121.4
160	46.9	37.0	55.4

Manual Integrations

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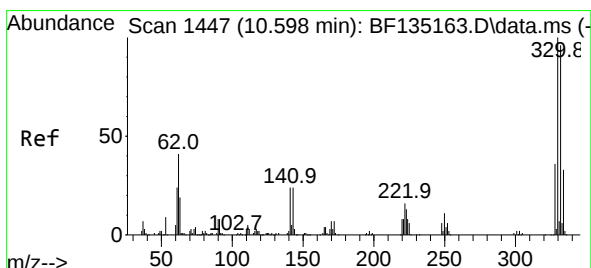
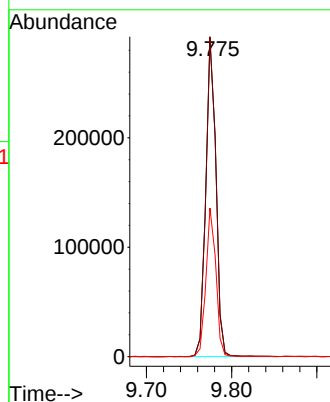
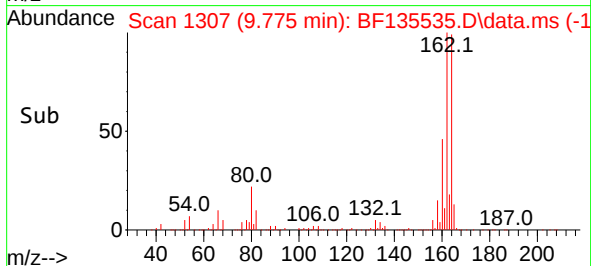
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ahmed

10/04/2023



#42

2,4,6-Tribromophenol

Concen: 66.903 ng

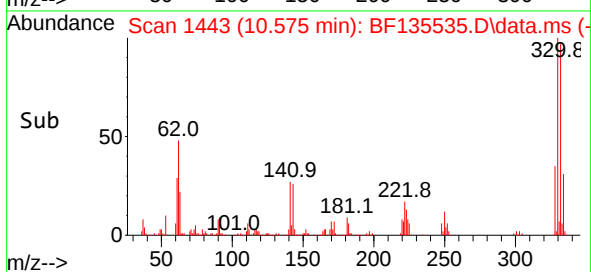
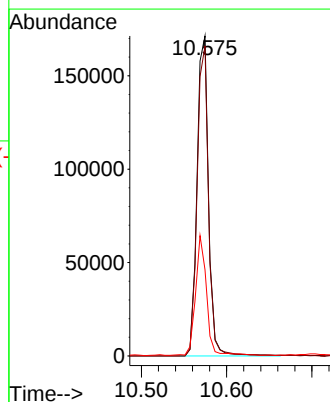
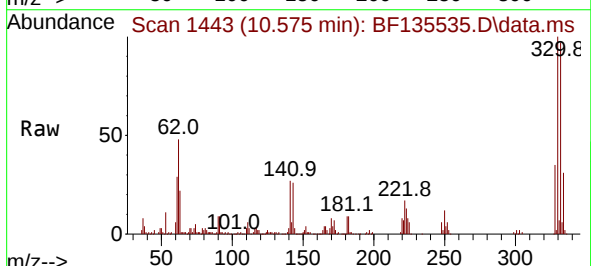
RT: 10.575 min Scan# 1443

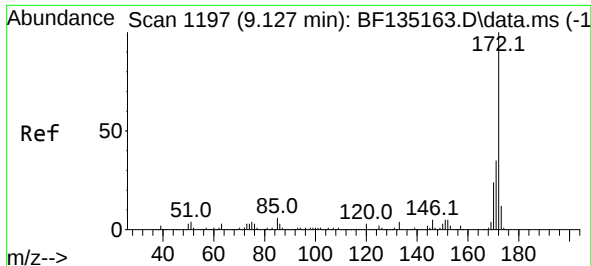
Delta R.T. -0.006 min

Lab File: BF135535.D

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Tgt Ion:	330	Resp:	160445
Ion Ratio	Lower	Upper	
330	100		
332	96.1	77.3	115.9
141	35.5	25.8	38.8





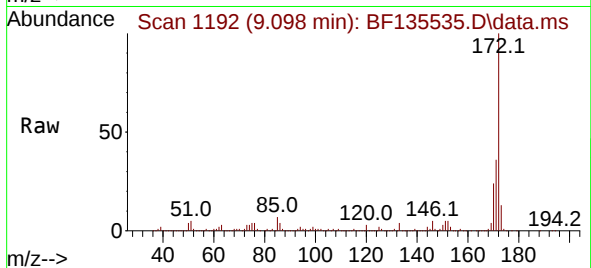
#45
2-Fluorobiphenyl
Concen: 60.610 ng
RT: 9.098 min Scan# 1197
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

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Tgt Ion:172 Resp: 969475
Ion Ratio Lower Upper
172 100
171 35.5 28.4 42.6
170 23.9 19.0 28.4

Manual Integrations

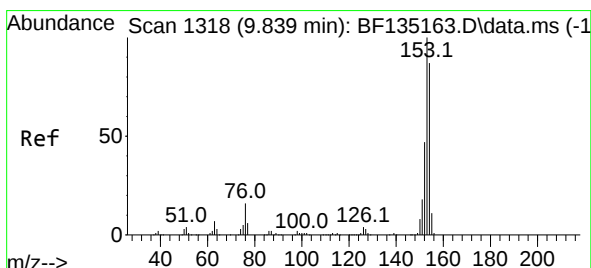
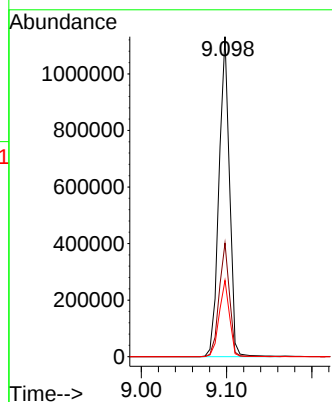
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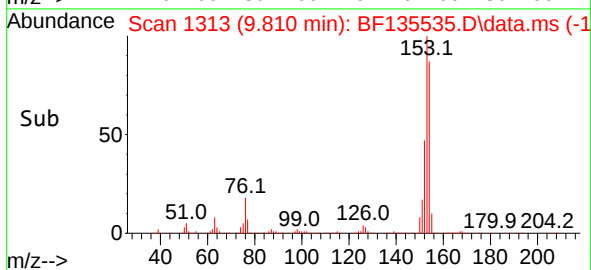
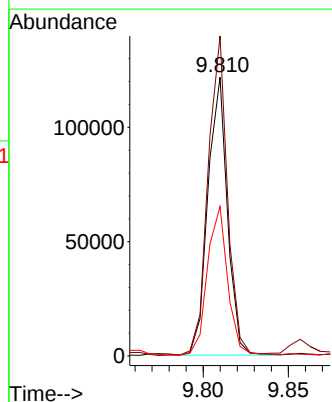
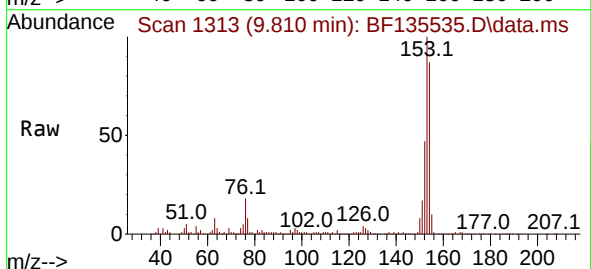
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ahmed

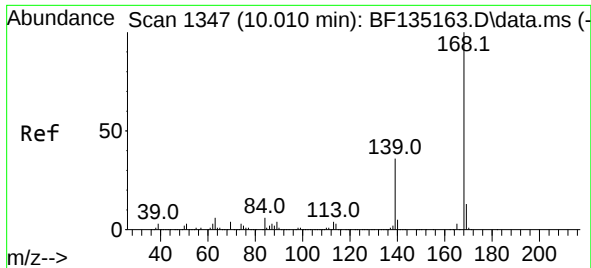
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#52
Acenaphthene
Concen: 7.346 ng
RT: 9.810 min Scan# 1313
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

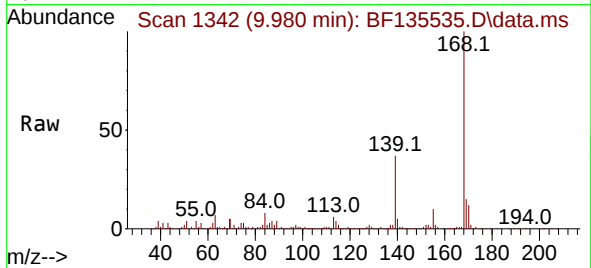
Tgt Ion:154 Resp: 97050
Ion Ratio Lower Upper
154 100
153 114.8 92.1 138.1
152 53.6 43.1 64.7





#55
Dibenzenofuran
Concen: 5.383 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :
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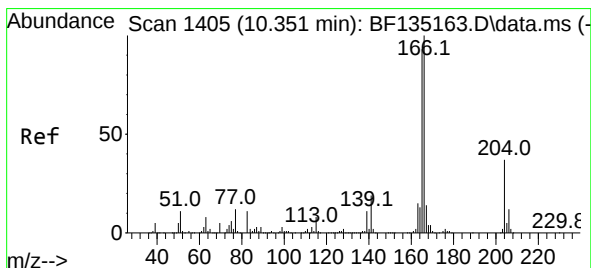
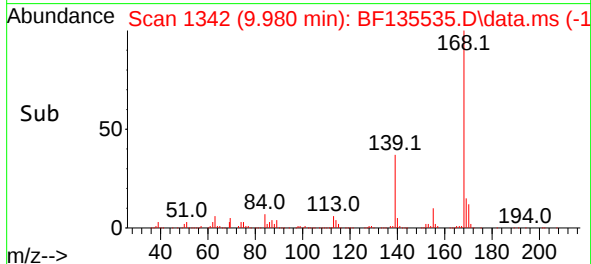
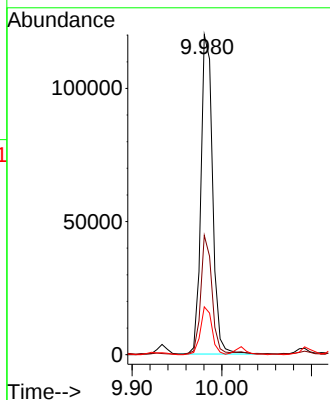
Tgt Ion:168 Resp: 108519
Ion Ratio Lower Upper
168 100
139 37.3 29.0 43.6
169 15.0 10.4 15.6

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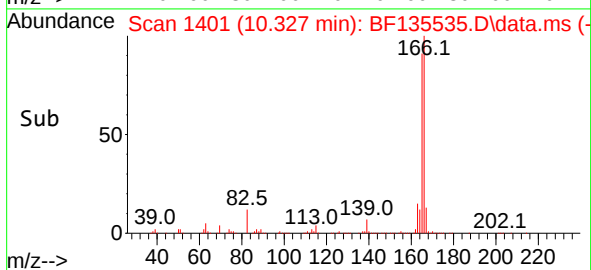
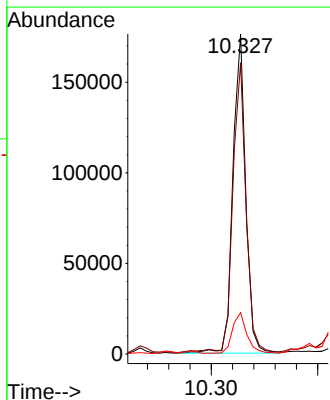
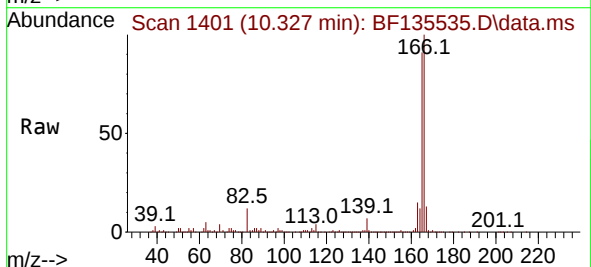
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Supervised By :mohammad
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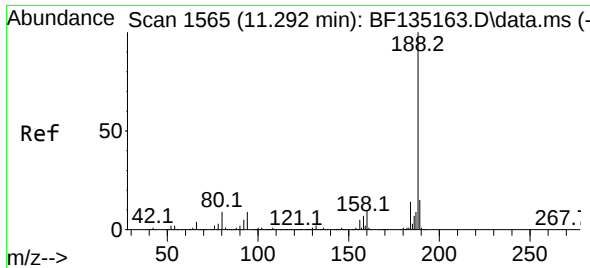
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#58
Fluorene
Concen: 9.477 ng
RT: 10.327 min Scan# 1401
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

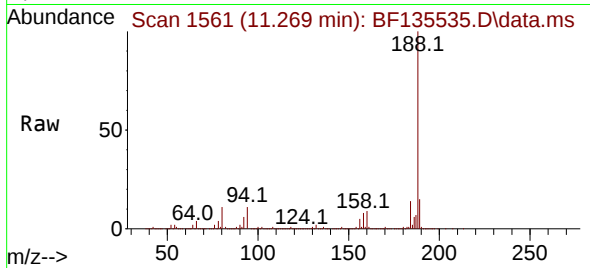
Tgt Ion:166 Resp: 146863
Ion Ratio Lower Upper
166 100
165 91.0 74.3 111.5
167 12.9 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1565
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



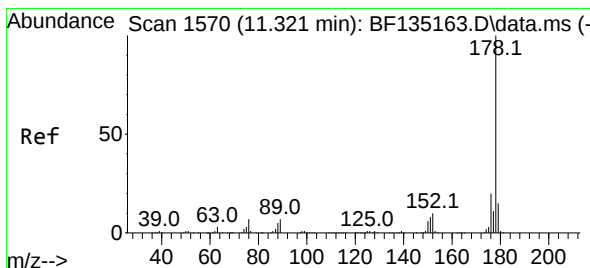
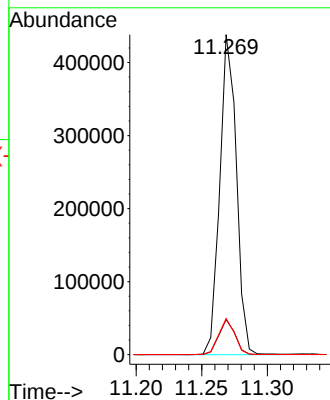
Tgt Ion:188 Resp: 385562
Ion Ratio Lower Upper
188 100
94 10.9 7.0 10.6
80 11.3 7.5 11.3

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Supervised By :mohammad ahmed 10/04/2023

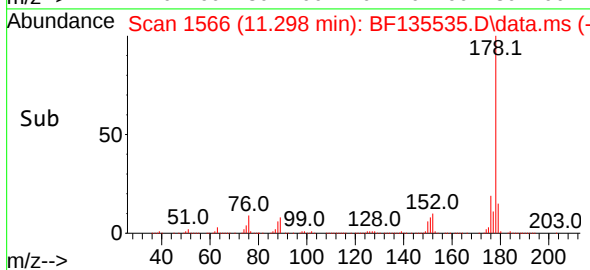
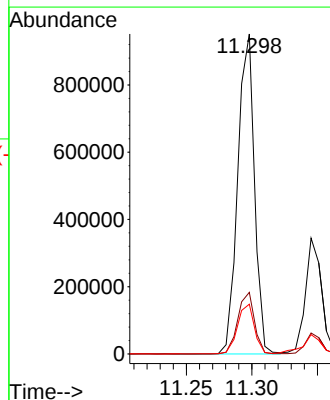
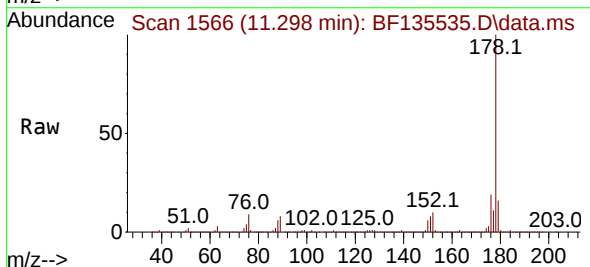
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Supervised By :mohammad
ahmed

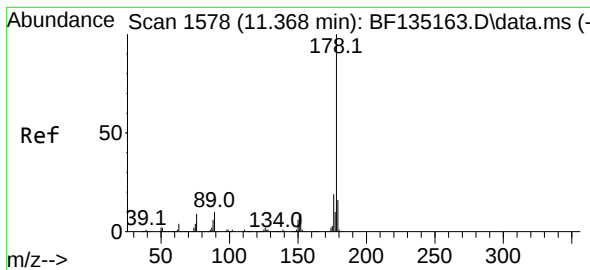
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#71
Phenanthrene
Concen: 46.339 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

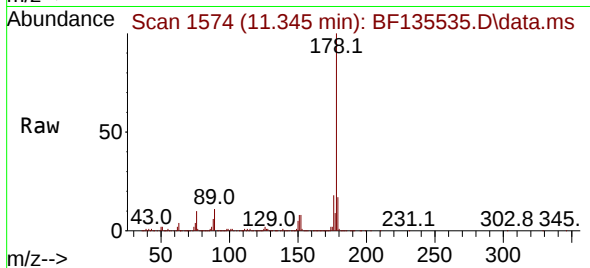
Tgt Ion:178 Resp: 845010
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.5 12.0 18.0





#72
 Anthracene
 Concen: 15.237 ng
 RT: 11.345 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF135535.D
 Acq: 02 Oct 2023 19:18

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-09272023



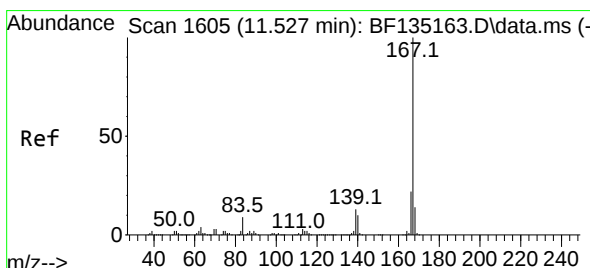
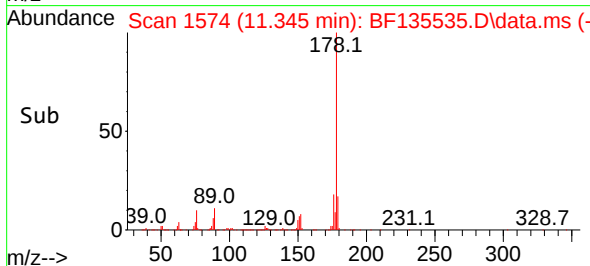
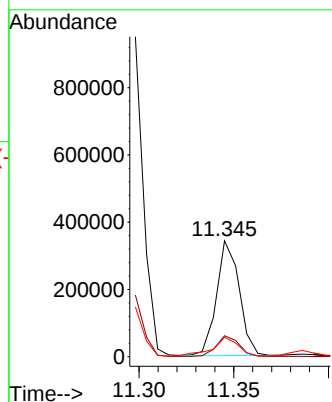
Tgt Ion:178 Resp: 28560
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.4 23.2
 179 16.7 12.6 19.0

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 Supervised By :mohammad ahmed 10/04/2023

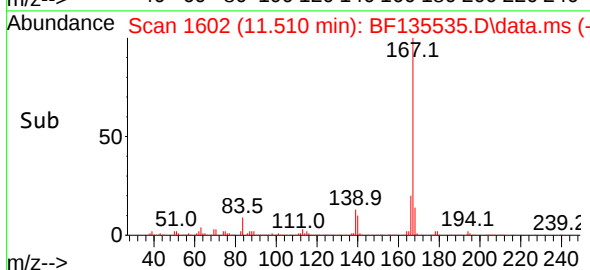
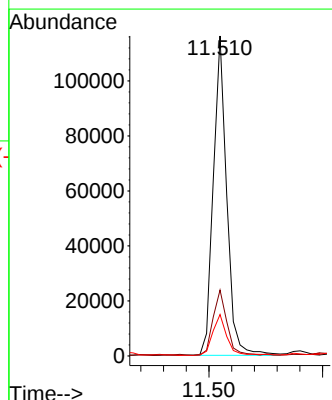
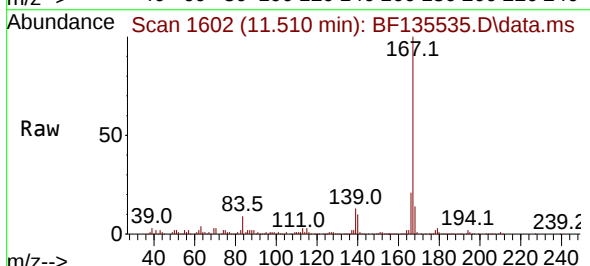
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 ahmed

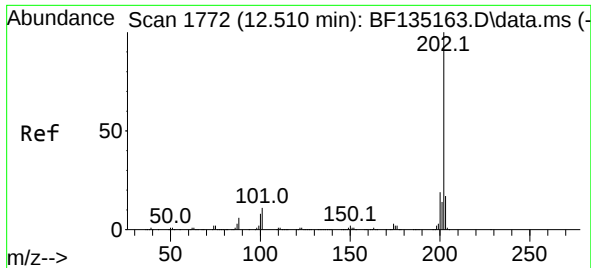
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#73
 Carbazole
 Concen: 5.577 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. -0.006 min
 Lab File: BF135535.D
 Acq: 02 Oct 2023 19:18

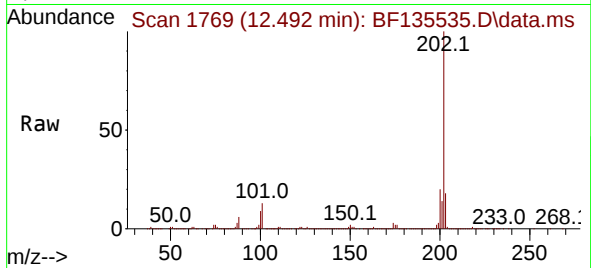
Tgt Ion:167 Resp: 95156
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.4 26.0
 139 13.0 10.6 15.8





#75
Fluoranthene
Concen: 50.936 ng
RT: 12.492 min Scan# 1769
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



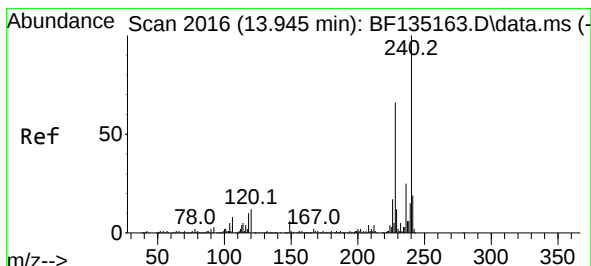
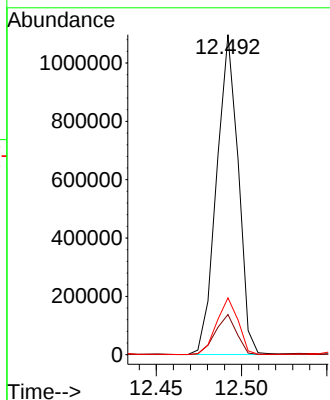
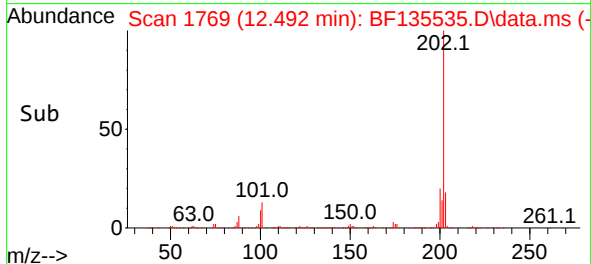
Tgt Ion:202 Resp: 967840
Ion Ratio Lower Upper
202 100
101 12.6 0.0 31.3
203 17.7 0.0 37.4

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Supervised By :mohammad ahmed 10/04/2023

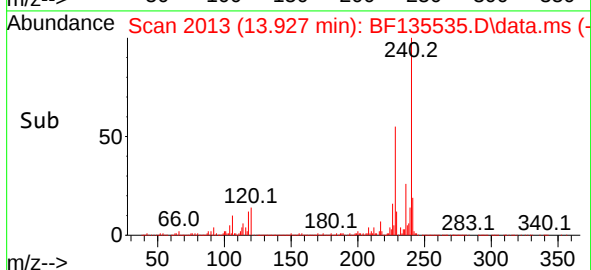
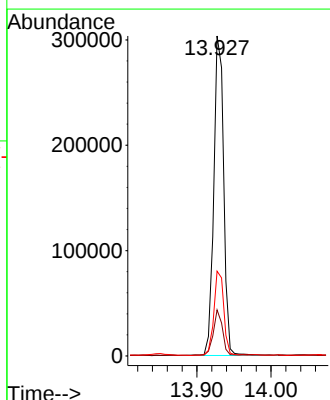
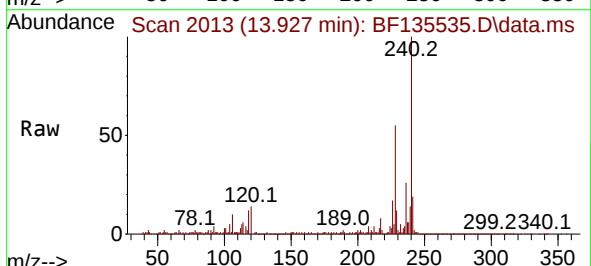
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ahmed

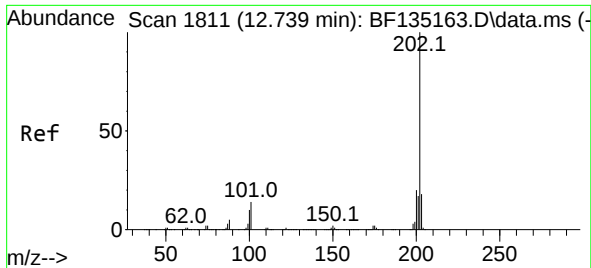
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.927 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

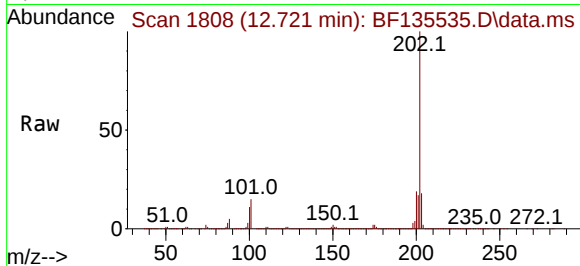
Tgt Ion:240 Resp: 280231
Ion Ratio Lower Upper
240 100
120 14.4 9.4 14.2#
236 26.5 19.8 29.8





#78
Pyrene
Concen: 31.501 ng
RT: 12.721 min Scan# 1808
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



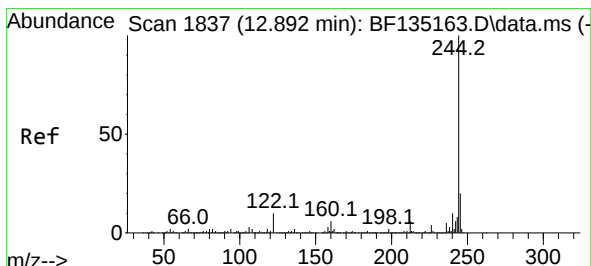
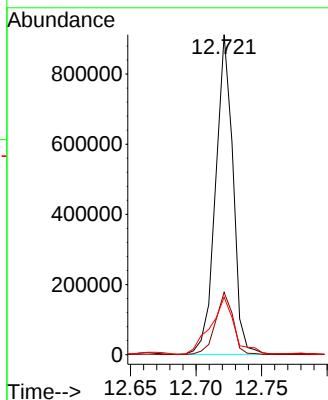
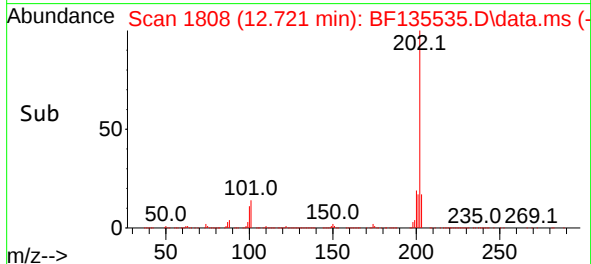
Tgt Ion:202 Resp: 84044
Ion Ratio Lower Upper
202 100
200 19.5 16.2 24.2
203 18.0 14.2 21.4

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Supervised By :mohammad ahmed 10/04/2023

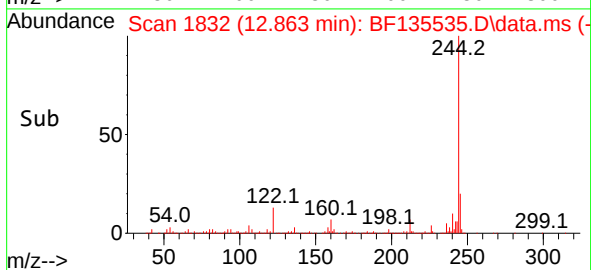
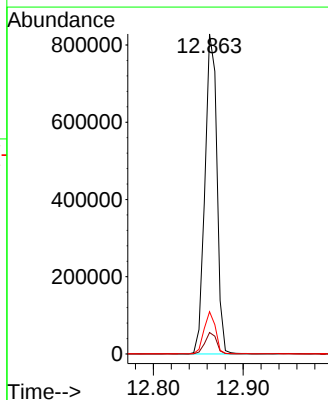
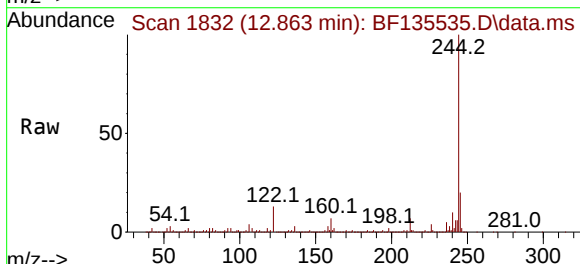
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Supervised By :mohammad
ahmed

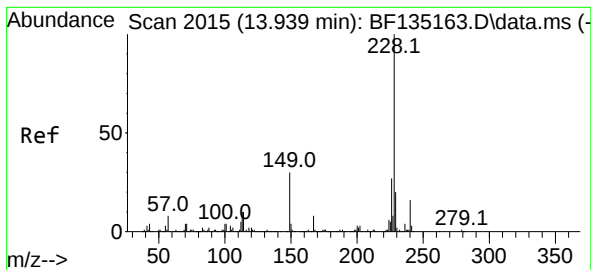
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#79
Terphenyl-d14
Concen: 42.491 ng
RT: 12.863 min Scan# 1832
Delta R.T. -0.012 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

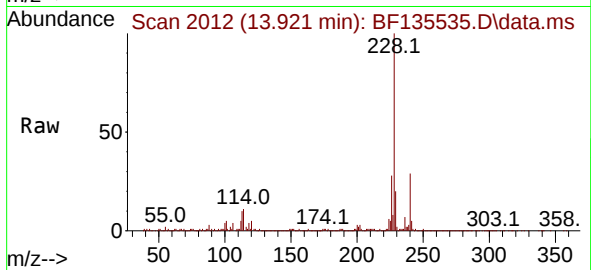
Tgt Ion:244 Resp: 768126
Ion Ratio Lower Upper
244 100
212 6.7 5.1 7.7
122 13.2 7.9 11.9#





#81
Benzo(a)anthracene
Concen: 22.323 ng
RT: 13.921 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



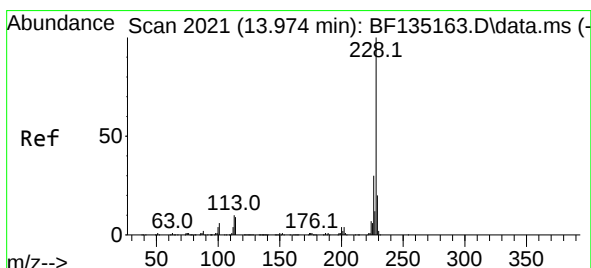
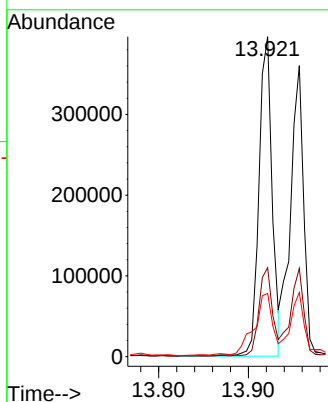
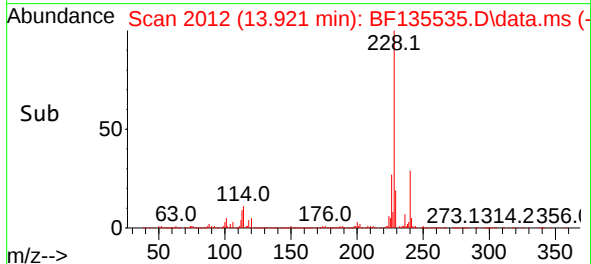
Tgt Ion:228 Resp: 40393
Ion Ratio Lower Upper
228 100
226 27.8 21.7 32.5
229 19.8 15.8 23.8

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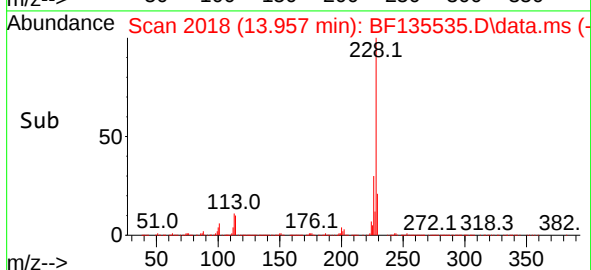
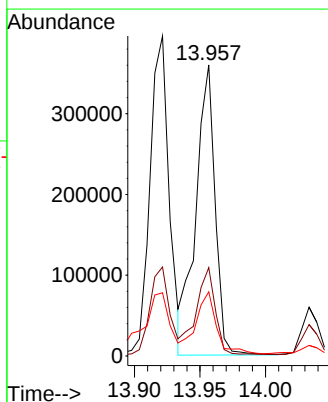
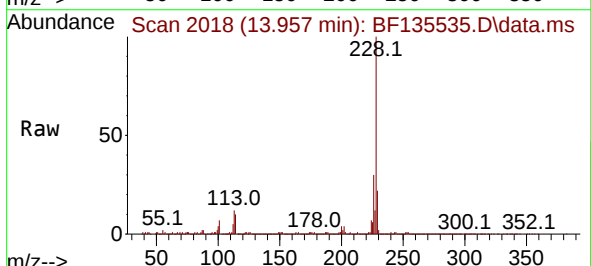
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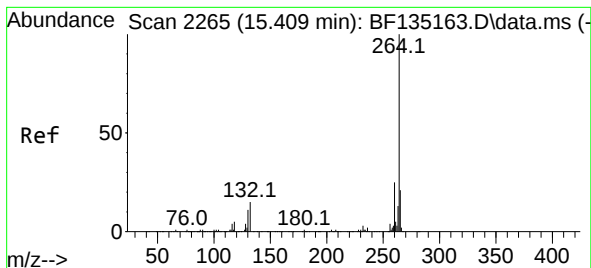
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#83
Chrysene
Concen: 20.557 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:228 Resp: 369833
Ion Ratio Lower Upper
228 100
226 30.3 24.3 36.5
229 22.1 16.0 24.0





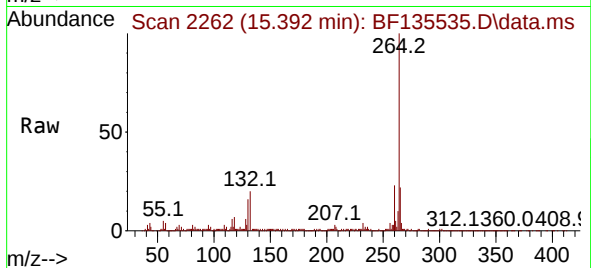
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.392 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023



Tgt Ion:264 Resp: 254698
Ion Ratio Lower Upper
264 100
260 22.6 19.8 29.6
265 22.4 17.0 25.4

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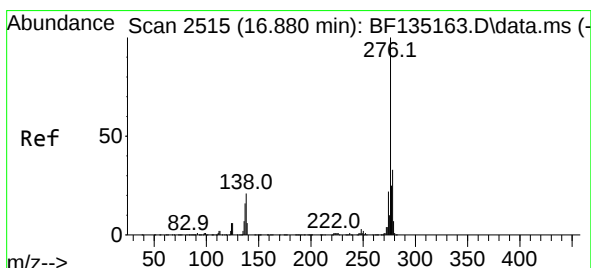
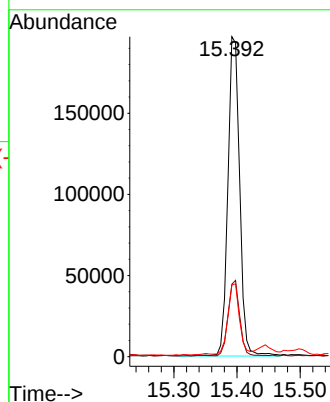
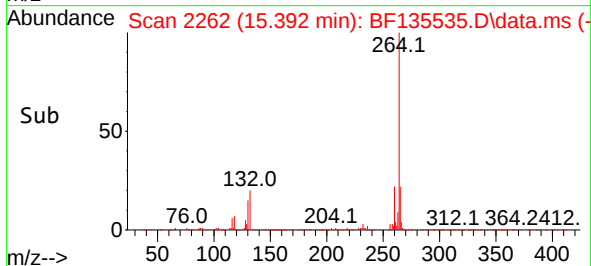
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Supervised By :mohammad ahmed 10/04/2023

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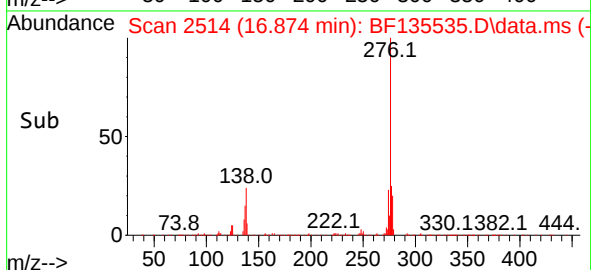
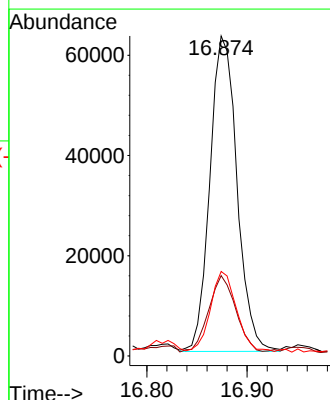
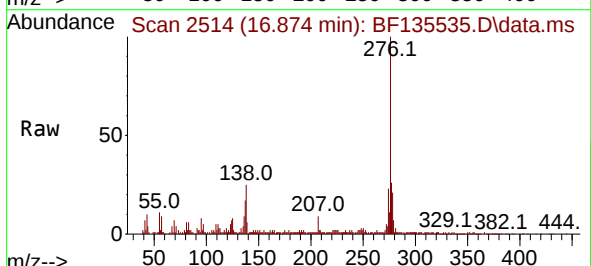
Supervised By :mohammad
ahmed

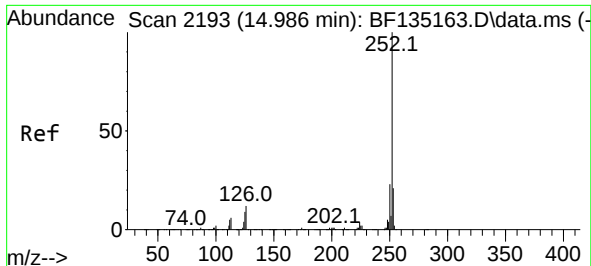
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#87
Indeno(1,2,3-cd)pyrene
Concen: 7.074 ng
RT: 16.874 min Scan# 2514
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

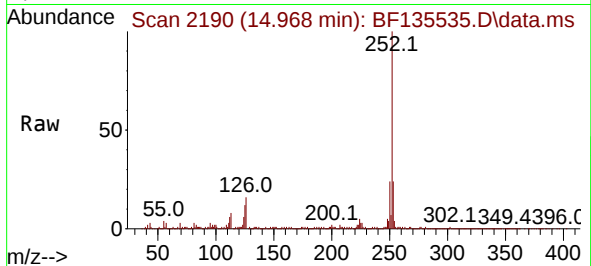
Tgt Ion:276 Resp: 118137
Ion Ratio Lower Upper
276 100
138 24.2 19.2 28.8
277 24.3 19.7 29.5





#88
Benzo(b)fluoranthene
Concen: 25.085 ng m
RT: 14.968 min Scan# 2193
Delta R.T. 0.000 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



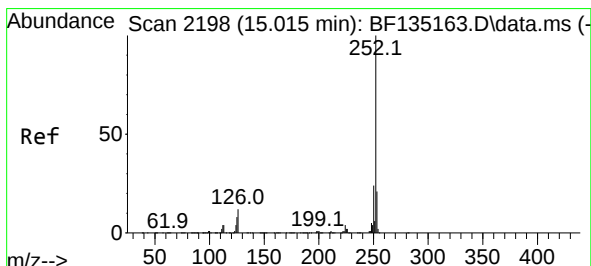
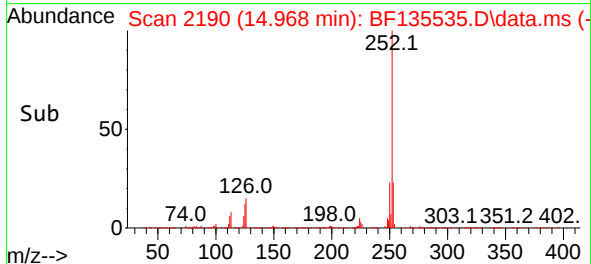
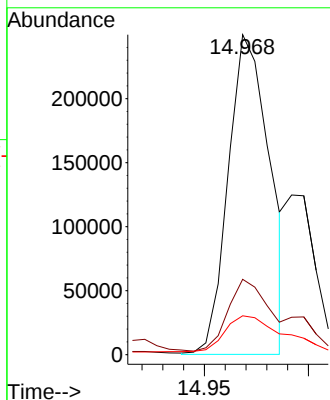
Tgt Ion:252 Resp: 345870
Ion Ratio Lower Upper
252 100
253 23.6 17.2 25.8
125 12.2 7.1 10.7

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Supervised By :mohammad ahmed 10/04/2023

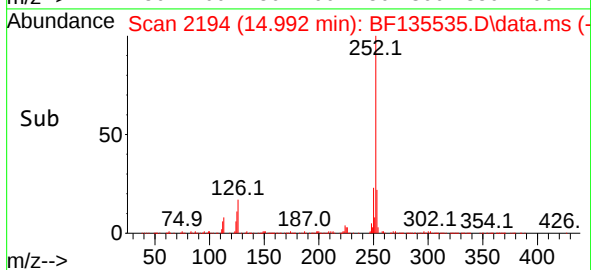
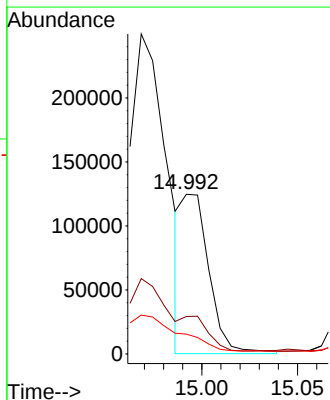
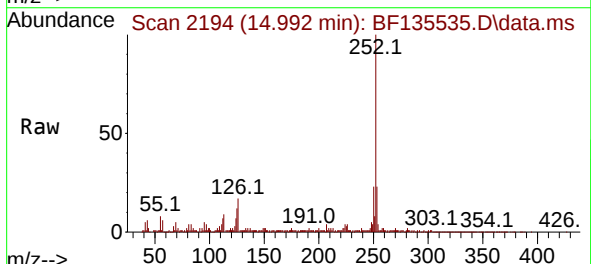
10/03/2023
Supervised By :mohammad
ahmed

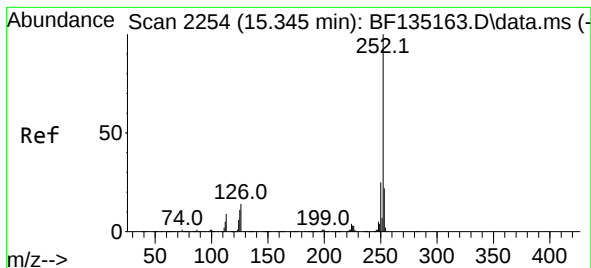
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#89
Benzo(k)fluoranthene
Concen: 9.062 ng m
RT: 14.992 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

Tgt Ion:252 Resp: 123418
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.0
125 12.4 7.2 10.8





#90

Benzo(a)pyrene

Concen: 18.244 ng

RT: 15.333 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

Tgt Ion:252 Resp: 23988
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.5 26.3
 125 13.5 9.2 13.8

Manual Integrations

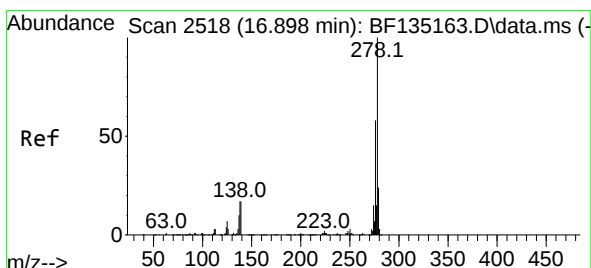
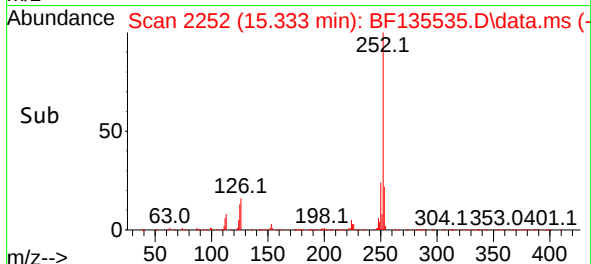
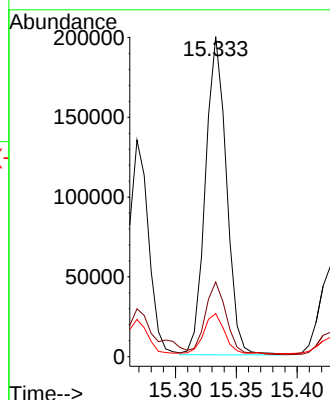
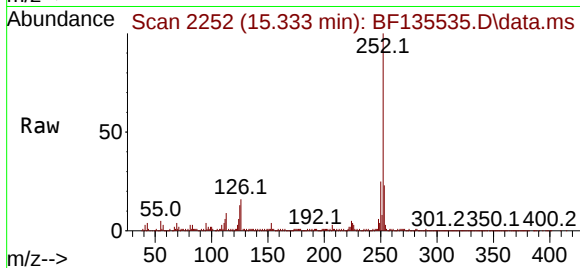
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 Supervised By :mohammad ahmed 10/04/2023

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 ahmed

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#91

Dibenzo(a,h)anthracene

Concen: 2.151 ng

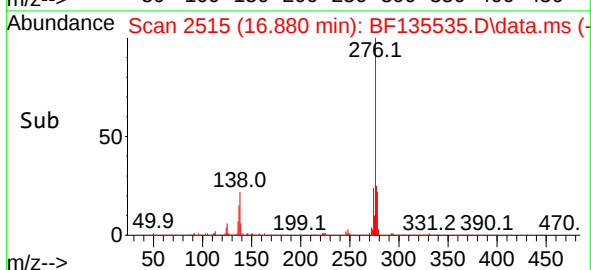
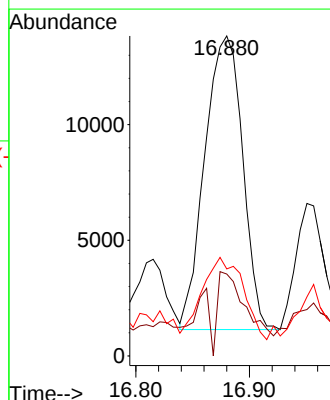
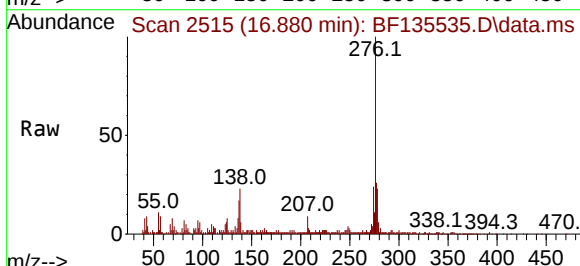
RT: 16.880 min Scan# 2515

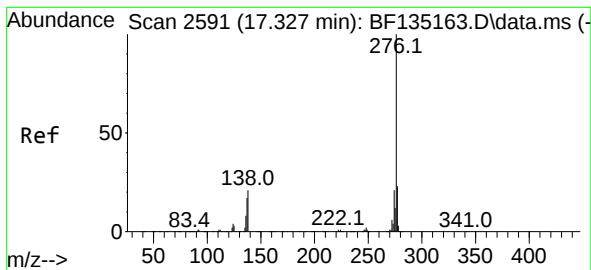
Delta R.T. -0.006 min

Lab File: BF135535.D

Acq: 02 Oct 2023 19:18

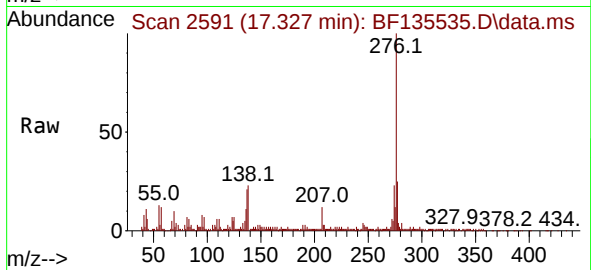
Tgt Ion:278 Resp: 29385
 Ion Ratio Lower Upper
 278 100
 139 25.6 13.4 20.0#
 279 27.2 19.0 28.6





#92
Benzo(g,h,i)perylene
Concen: 7.713 ng
RT: 17.327 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135535.D
Acq: 02 Oct 2023 19:18

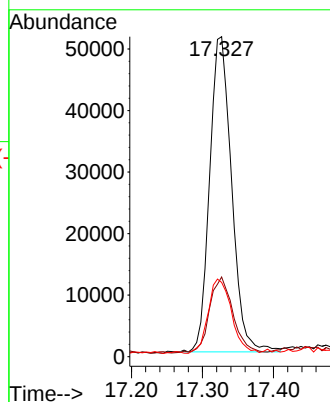
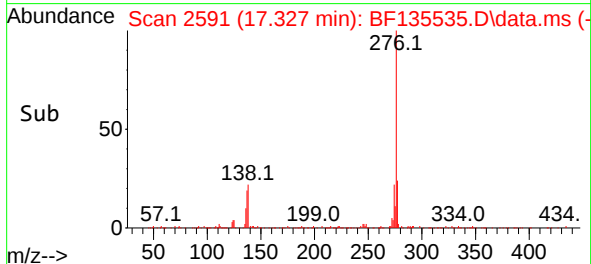
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023



Tgt Ion: 276 Resp: 11006
Ion Ratio Lower Upper
276 100
277 24.9 18.8 28.2
138 23.2 16.9 25.3

Manual Integrations
APPROVED

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



10/03/2023
Supervised By : mohammad
ahmed

10/04/2023