

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071323\
 Data File : BF134277.D
 Acq On : 13 Jul 2023 23:53
 Operator : CG\JU
 Sample : 03358-04 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-(0-2)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/14/2023
 Supervised By :mohammad ahmed 07/14/2023

Quant Time: Jul 14 01:58:17 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 11 13:06:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.839	152	70320	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	260177	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	130655	20.000	ng	0.00
64) Phenanthrene-d10	11.374	188	244000	20.000	ng	0.00
76) Chrysene-d12	14.033	240	159374	20.000	ng	0.00
86) Perylene-d12	15.539	264	115594	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	188665	44.880	ng	0.00
7) Phenol-d6	6.475	99	219779	42.512	ng	-0.01
23) Nitrobenzene-d5	7.398	82	145709	30.189	ng	-0.01
42) 2,4,6-Tribromophenol	10.675	330	72370	44.178	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	276587	30.778	ng	0.00
79) Terphenyl-d14	12.968	244	284297	28.709	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.739	152	33233	2.537	ng	95
71) Phenanthrene	11.398	178	42057	3.424	ng	98
75) Fluoranthene	12.598	202	146353	11.021	ng	96
78) Pyrene	12.827	202	132146	8.910	ng	97
81) Benzo(a)anthracene	14.027	228	68471m	6.195	ng	
83) Chrysene	14.063	228	75978	7.097	ng	97
87) Indeno(1,2,3-cd)pyrene	17.086	276	42853	5.343	ng	# 95
88) Benzo(b)fluoranthene	15.098	252	89382m	13.150	ng	
89) Benzo(k)fluoranthene	15.121	252	28921m	4.179	ng	
90) Benzo(a)pyrene	15.474	252	54663	8.317	ng	94
92) Benzo(g,h,i)perylene	17.556	276	44243	6.549	ng	97

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

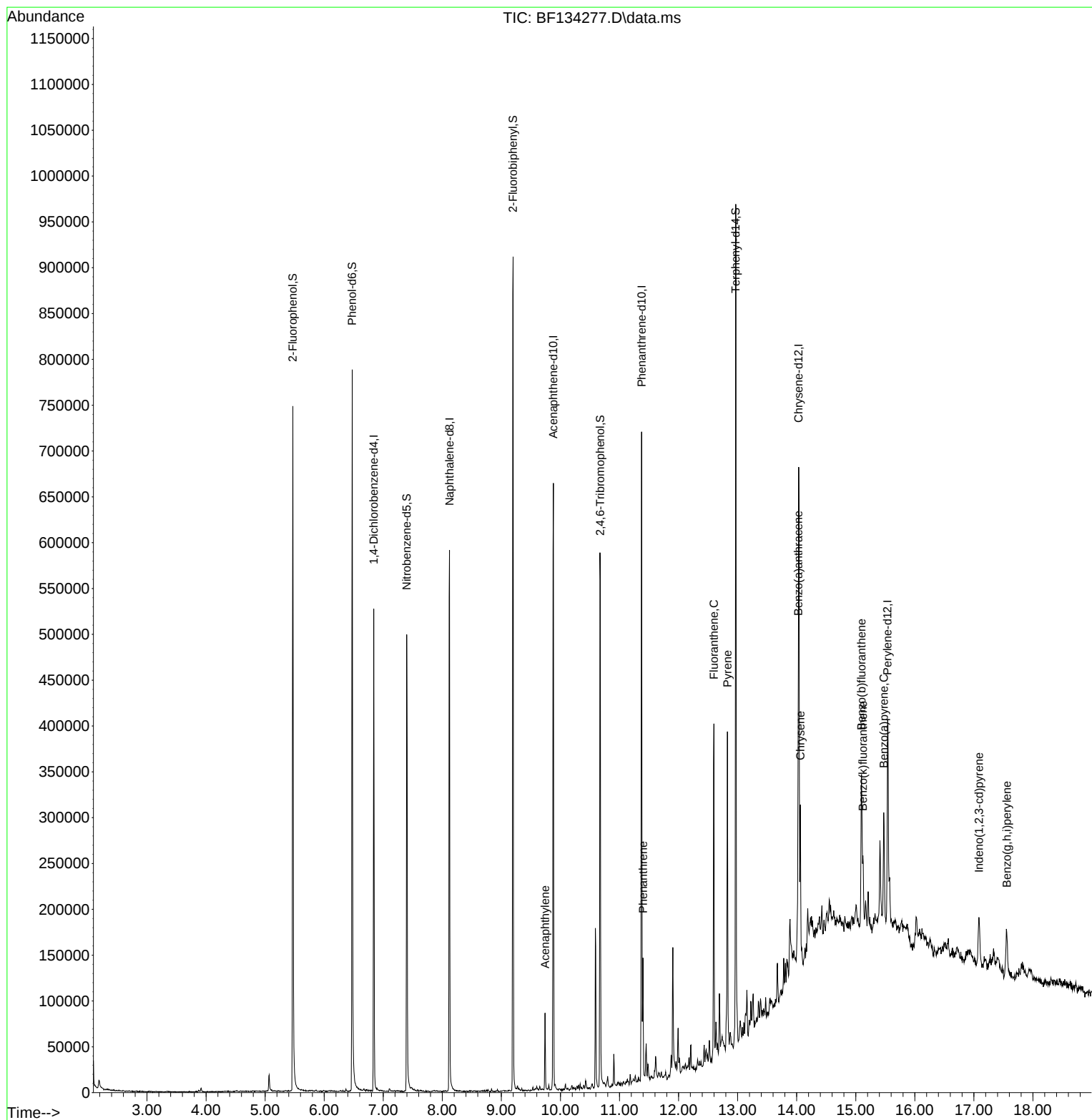
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071323\
Data File : BF134277.D
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APPROVED

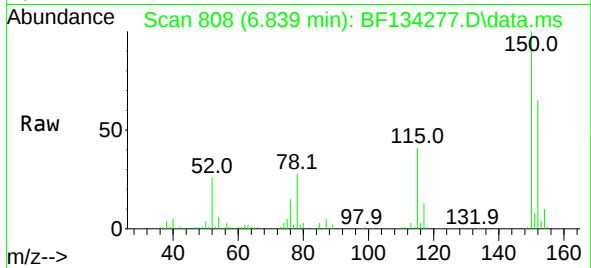
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.839 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

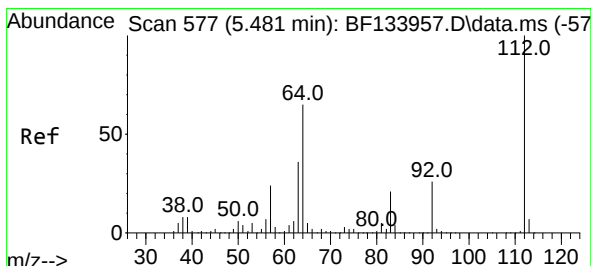
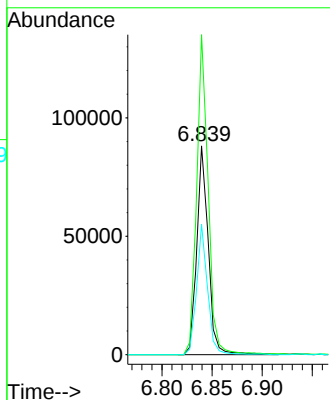
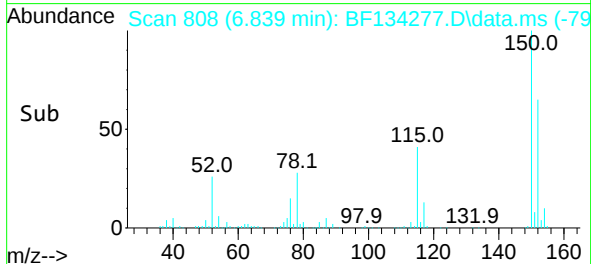
Instrument :
BNA_F
ClientSampleId :
SB-4-(0-2)



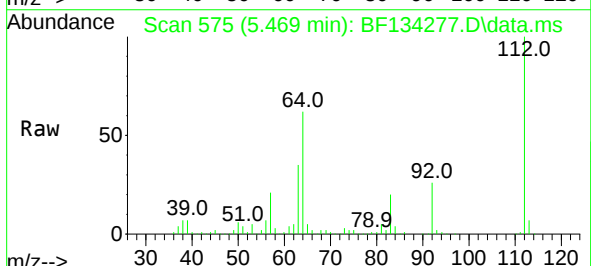
Tgt Ion:152 Resp: 70320
Ion Ratio Lower Upper
152 100
150 153.3 124.5 186.7
115 62.3 50.2 75.2

Manual Integrations
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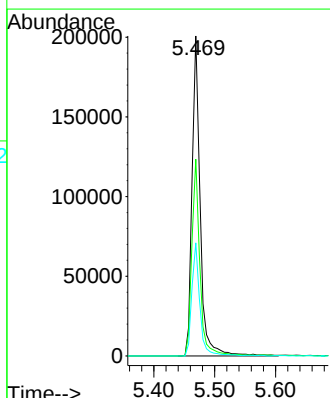
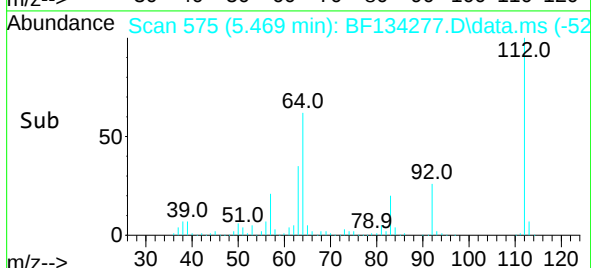
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#5
2-Fluorophenol
Concen: 44.880 ng
RT: 5.469 min Scan# 575
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53



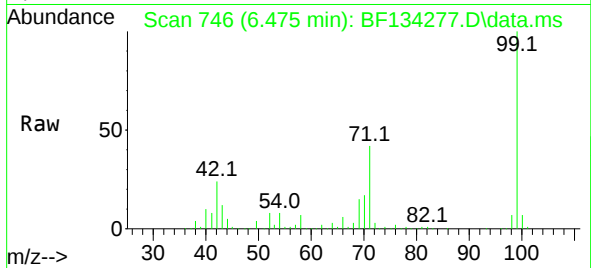
Tgt Ion:112 Resp: 188665
Ion Ratio Lower Upper
112 100
64 61.5 52.1 78.1
63 35.3 28.6 42.8





#7
Phenol-d6
Concen: 42.512 ng
RT: 6.475 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

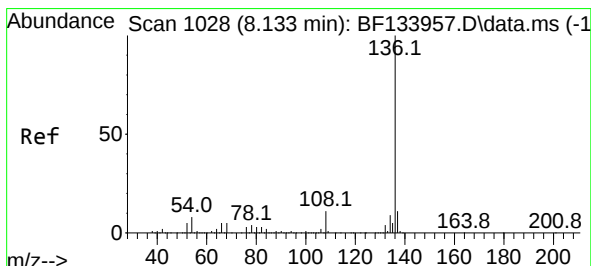
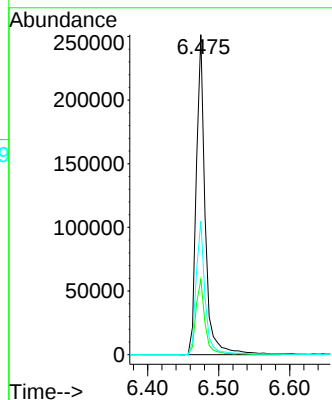
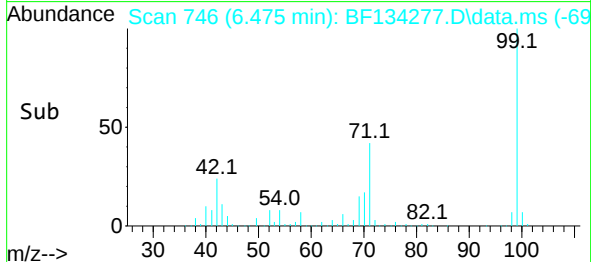
Instrument :
BNA_F
ClientSampleId :
SB-4-(0-2)



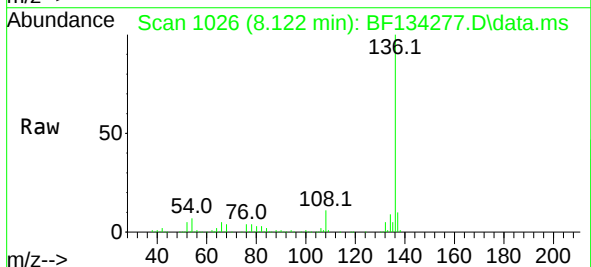
Tgt Ion: 99 Resp: 219779
Ion Ratio Lower Upper
99 100
42 23.5 19.8 29.6
71 41.7 31.9 47.9

Manual Integrations
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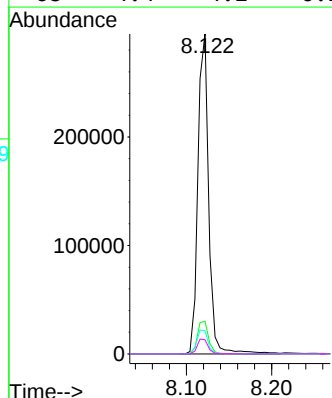
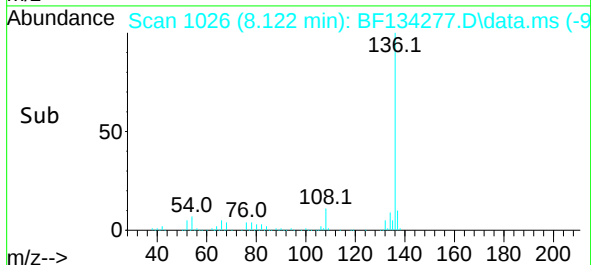
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023

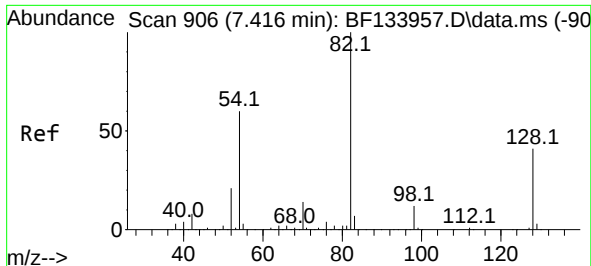


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53



Tgt Ion:136 Resp: 260177
Ion Ratio Lower Upper
136 100
137 10.2 8.6 12.8
54 7.2 6.5 9.7
68 4.4 4.2 6.2





#23

Nitrobenzene-d5

Concen: 30.189 ng

RT: 7.398 min Scan# 906

Delta R.T. -0.012 min

Lab File: BF134277.D

Acq: 13 Jul 2023 23:53

Instrument :

BNA_F

ClientSampleId :

SB-4-(0-2)

Tgt Ion: 82 Resp: 145709

Ion Ratio Lower Upper

82 100

128 41.0 32.5 48.7

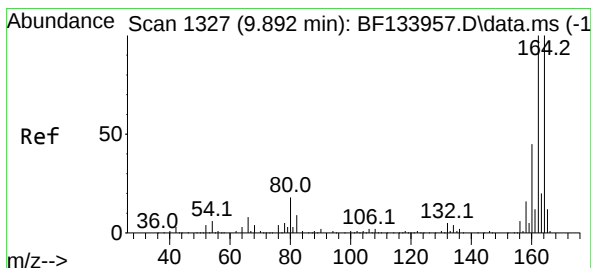
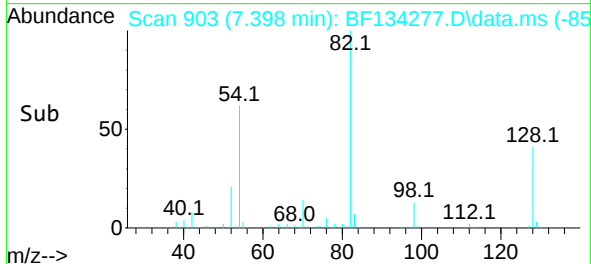
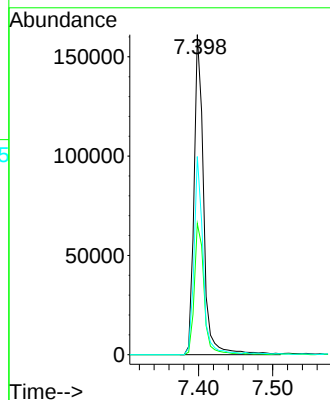
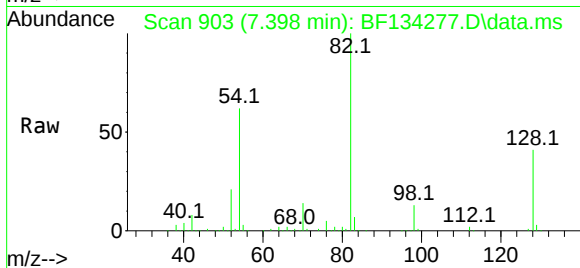
54 61.9 48.2 72.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/14/2023

Supervised By :mohammad ahmed 07/14/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.880 min Scan# 1325

Delta R.T. -0.006 min

Lab File: BF134277.D

Acq: 13 Jul 2023 23:53

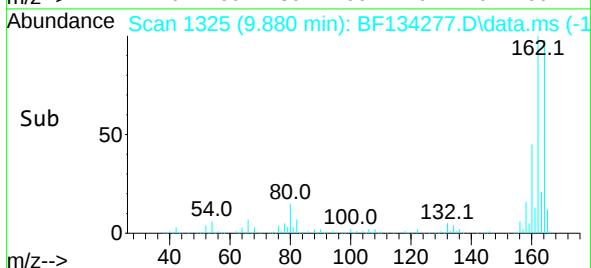
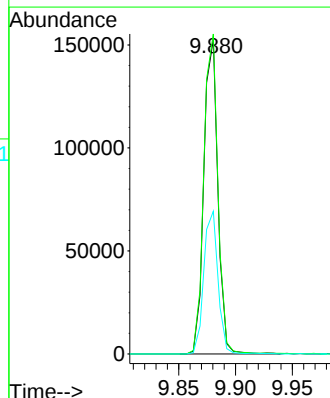
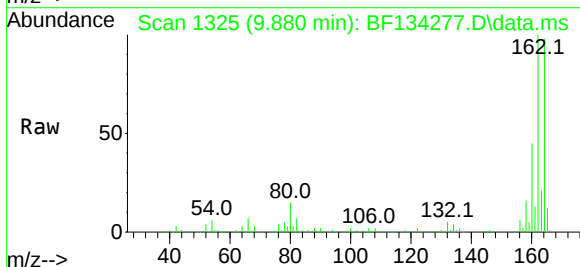
Tgt Ion:164 Resp: 130655

Ion Ratio Lower Upper

164 100

162 101.8 80.0 120.0

160 45.4 35.9 53.9





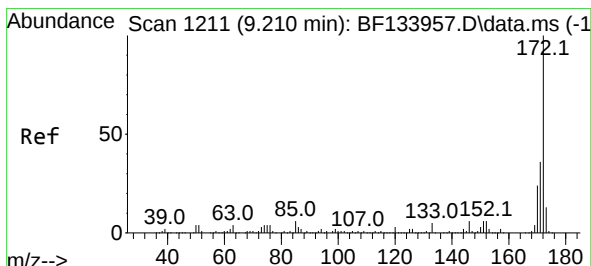
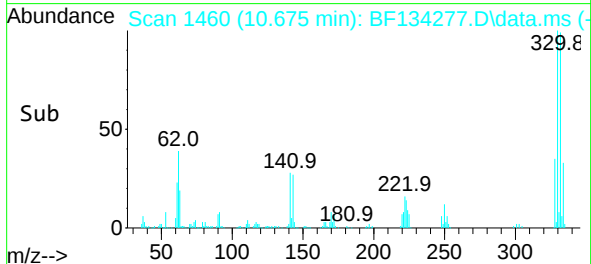
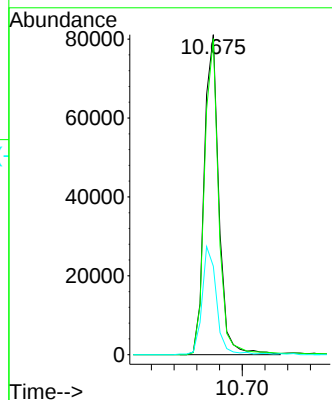
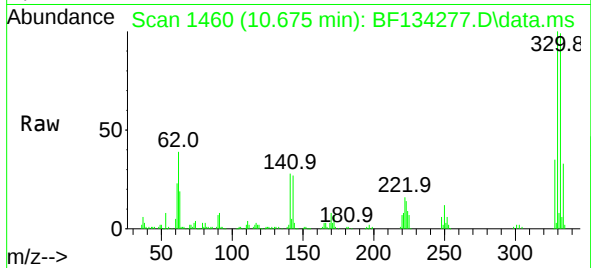
#42
2,4,6-Tribromophenol
Concen: 44.178 ng
RT: 10.675 min Scan# 1462
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

Instrument :
BNA_F
ClientSampleId :
SB-4-(0-2)

Tgt Ion:330 Resp: 72370
Ion Ratio Lower Upper
330 100
332 96.7 77.0 115.6
141 33.4 26.3 39.5

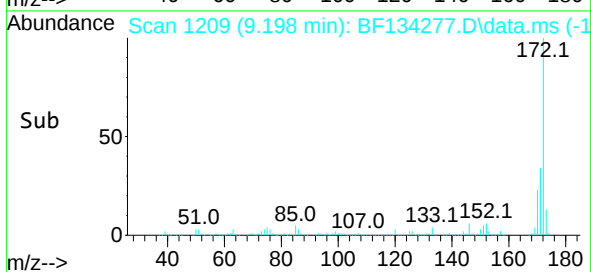
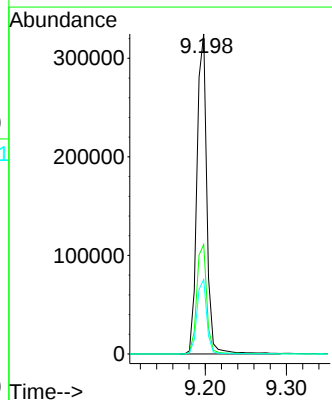
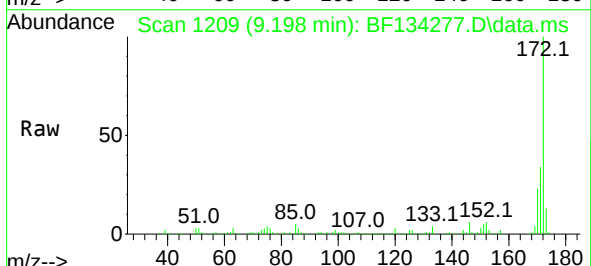
Manual Integrations
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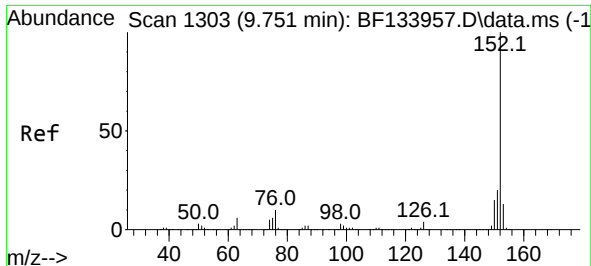
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#45
2-Fluorobiphenyl
Concen: 30.778 ng
RT: 9.198 min Scan# 1209
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

Tgt Ion:172 Resp: 276587
Ion Ratio Lower Upper
172 100
171 34.2 28.6 43.0
170 23.3 19.4 29.0





#49

Acenaphthylene

Concen: 2.537 ng

RT: 9.739 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134277.D

Acq: 13 Jul 2023 23:53

Instrument :

BNA_F

ClientSampleId :

SB-4-(0-2)

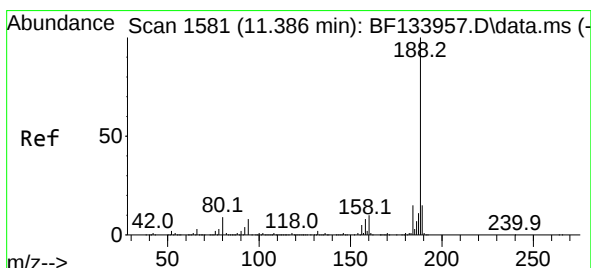
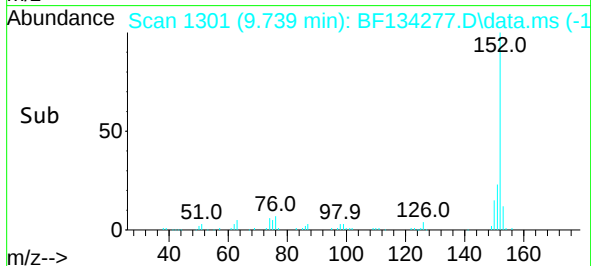
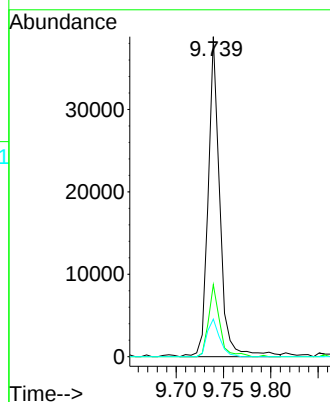
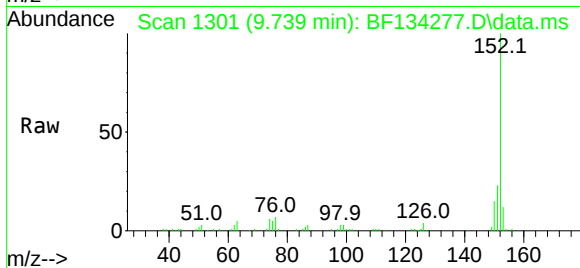
Tgt Ion:	152	Resp:	3323
Ion Ratio	Lower	Upper	
152	100		
151	22.5	16.2	24.2
153	11.7	10.8	16.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/14/2023

Supervised By :mohammad ahmed 07/14/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

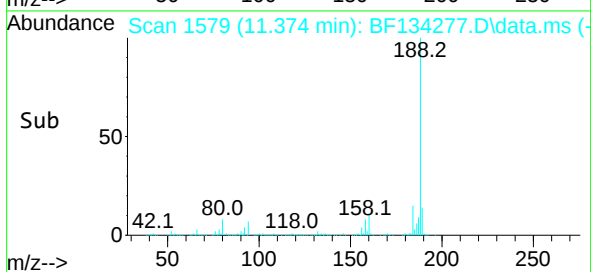
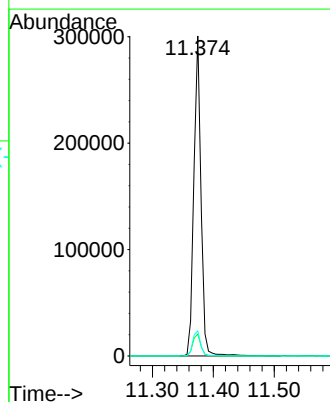
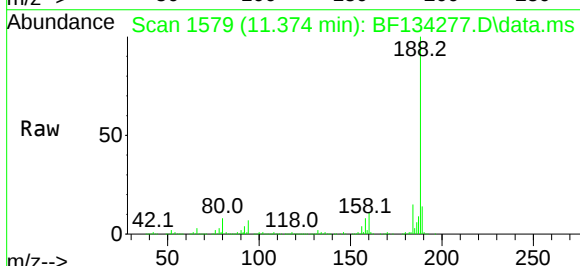
RT: 11.374 min Scan# 1579

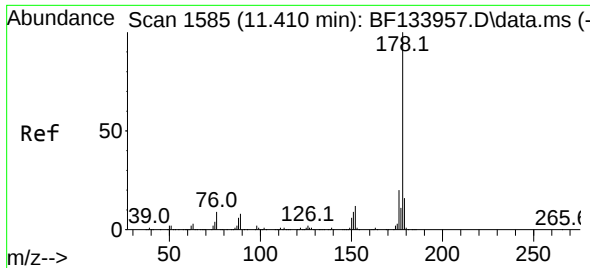
Delta R.T. -0.006 min

Lab File: BF134277.D

Acq: 13 Jul 2023 23:53

Tgt Ion:	188	Resp:	244000
Ion Ratio	Lower	Upper	
188	100		
94	6.8	6.4	9.6
80	7.8	7.3	10.9





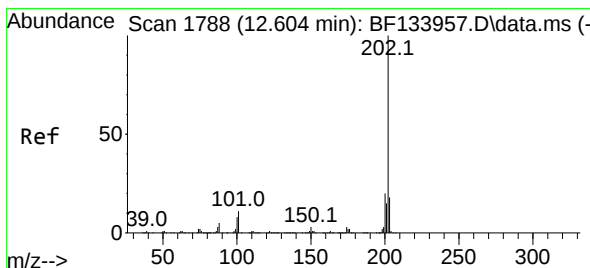
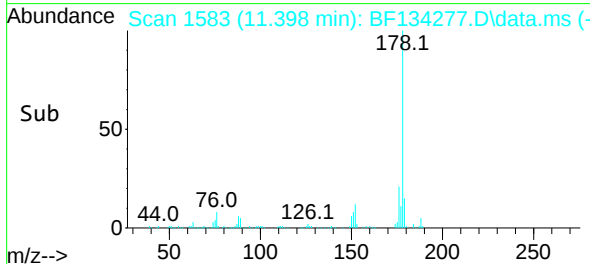
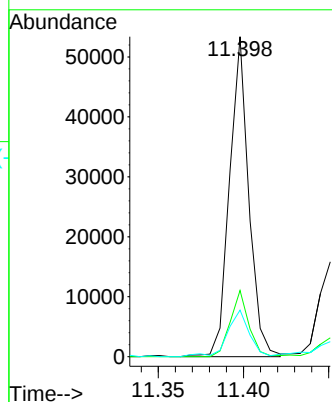
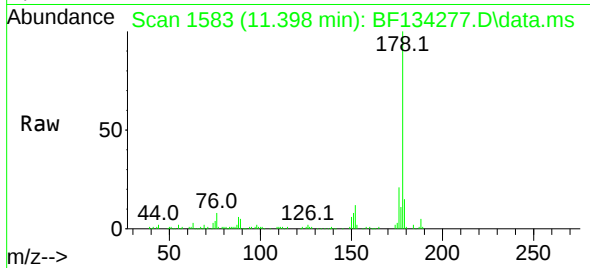
#71
Phenanthrene
Concen: 3.424 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

Instrument :
BNA_F
ClientSampleId :
SB-4-(0-2)

Tgt Ion:178 Resp: 4205
Ion Ratio Lower Upper
178 100
176 20.7 16.0 24.0
179 14.5 12.4 18.6

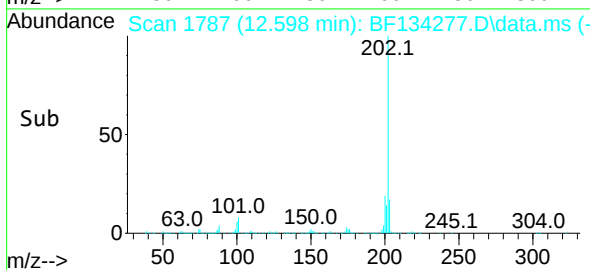
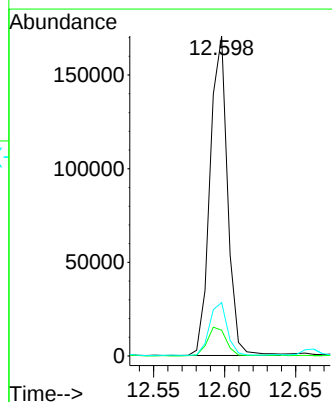
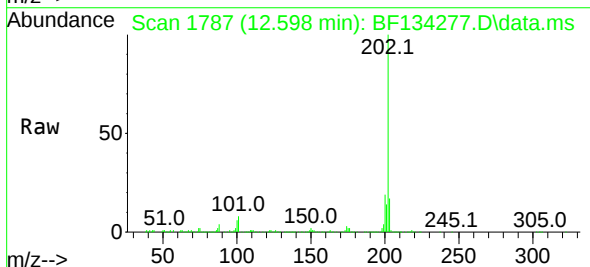
Manual Integrations
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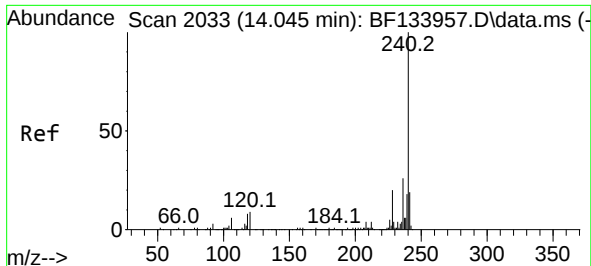
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#75
Fluoranthene
Concen: 11.021 ng
RT: 12.598 min Scan# 1787
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

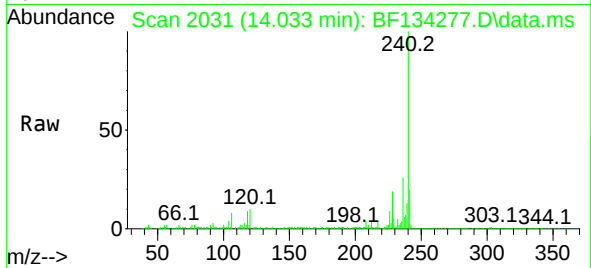
Tgt Ion:202 Resp: 146353
Ion Ratio Lower Upper
202 100
101 8.0 0.0 31.0
203 16.7 0.0 37.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2033
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

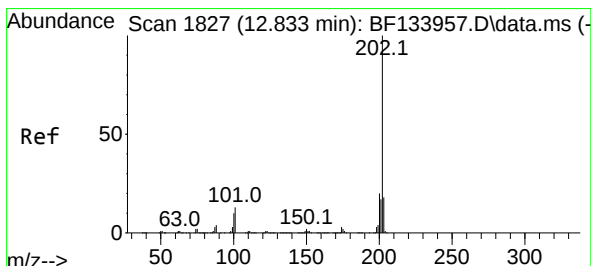
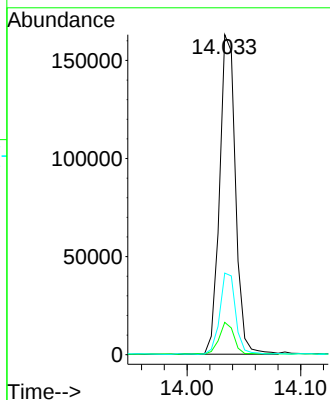
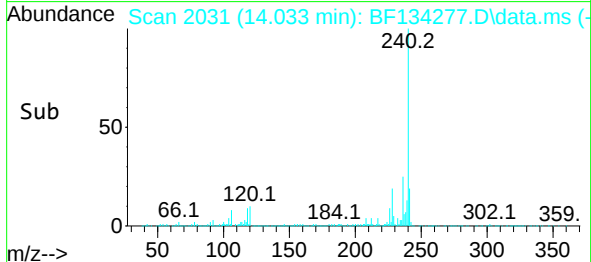
Instrument :
BNA_F
ClientSampleId :
SB-4-(0-2)



Tgt Ion:240 Resp: 159374
Ion Ratio Lower Upper
240 100
120 10.1 7.4 11.0
236 25.5 21.0 31.6

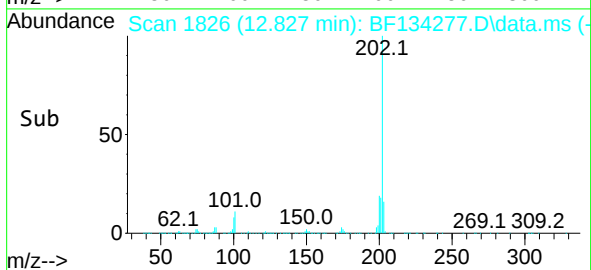
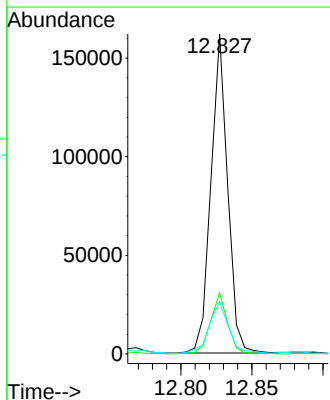
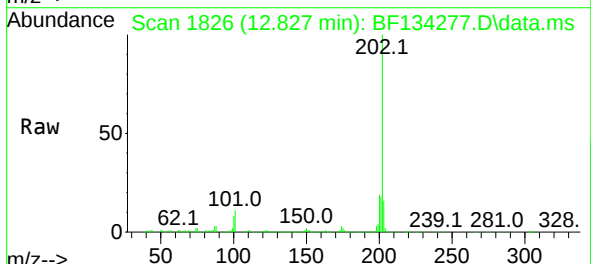
Manual Integrations
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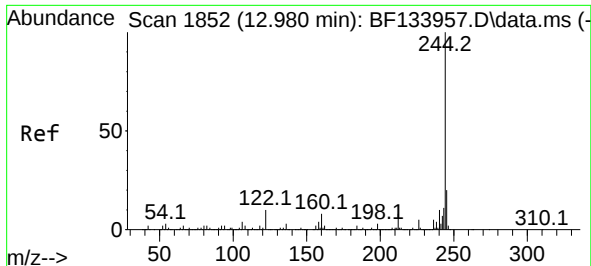
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#78
Pyrene
Concen: 8.910 ng
RT: 12.827 min Scan# 1826
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

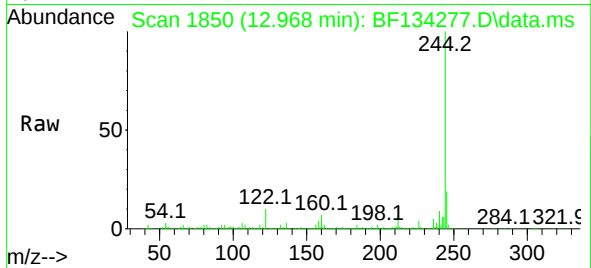
Tgt Ion:202 Resp: 132146
Ion Ratio Lower Upper
202 100
200 19.1 16.1 24.1
203 16.4 14.3 21.5





#79
 Terphenyl-d14
 Concen: 28.709 ng
 RT: 12.968 min Scan# 1850
 Delta R.T. -0.006 min
 Lab File: BF134277.D
 Acq: 13 Jul 2023 23:53

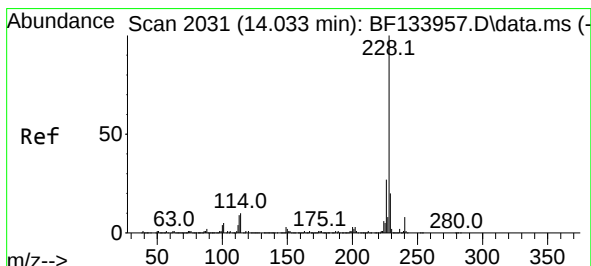
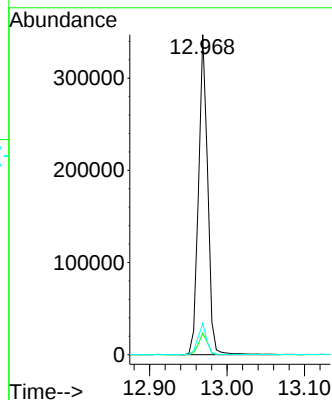
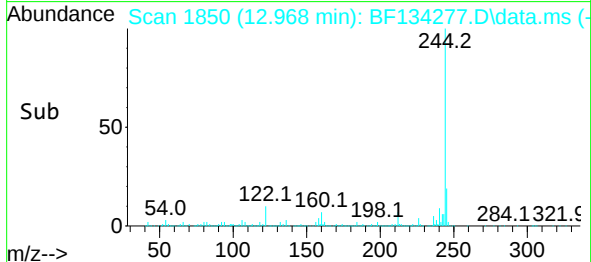
Instrument :
 BNA_F
 ClientSampleId :
 SB-4-(0-2)



Tgt Ion:244 Resp: 28429
 Ion Ratio Lower Upper
 244 100
 212 6.7 6.0 9.0
 122 9.7 8.3 12.5

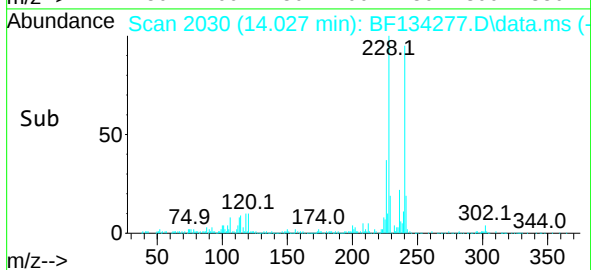
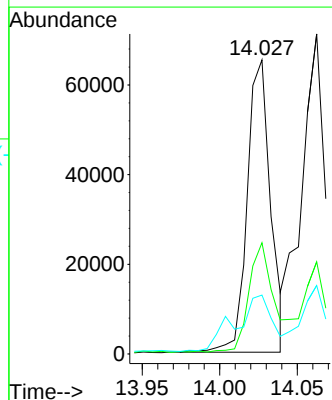
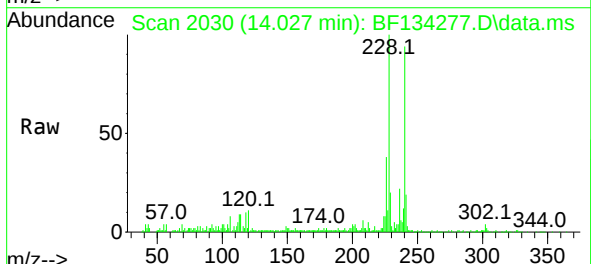
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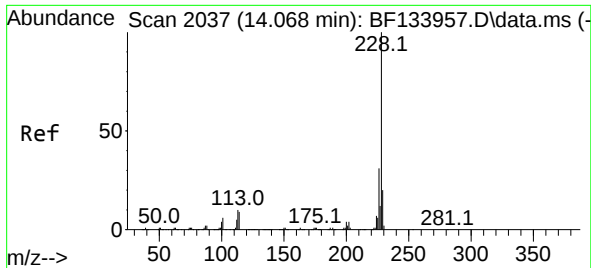
Reviewed By :Yogesh Patel 07/14/2023
 Supervised By :mohammad ahmed 07/14/2023



#81
 Benzo(a)anthracene
 Concen: 6.195 ng m
 RT: 14.027 min Scan# 2030
 Delta R.T. -0.006 min
 Lab File: BF134277.D
 Acq: 13 Jul 2023 23:53

Tgt Ion:228 Resp: 68471
 Ion Ratio Lower Upper
 228 100
 226 37.8 22.0 33.0#
 229 20.0 16.3 24.5





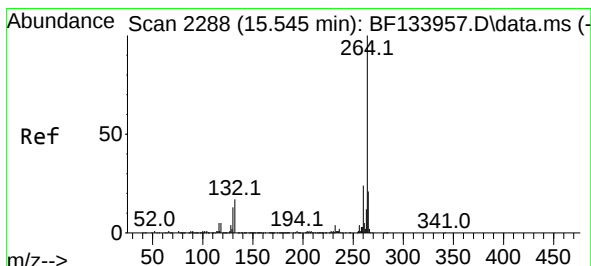
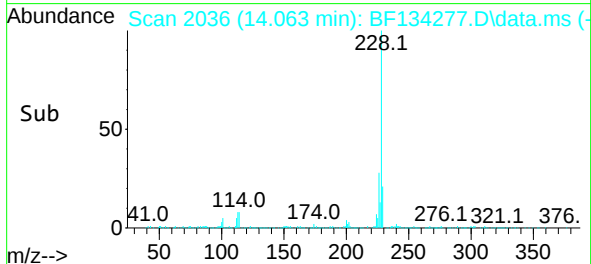
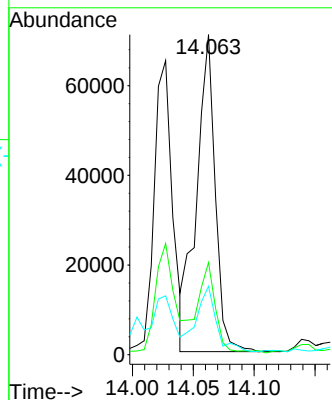
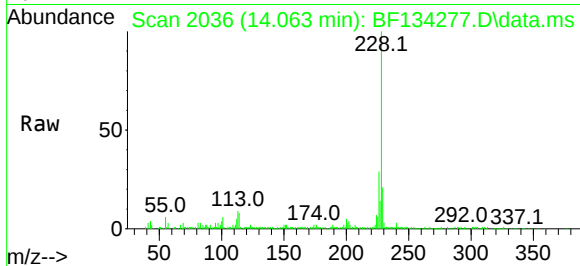
#83
Chrysene
Concen: 7.097 ng
RT: 14.063 min Scan# 2036
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

Instrument :
BNA_F
ClientSampleId :
SB-4-(0-2)

Tgt Ion:228 Resp: 75978
Ion Ratio Lower Upper
228 100
226 28.8 24.4 36.6
229 21.4 16.1 24.1

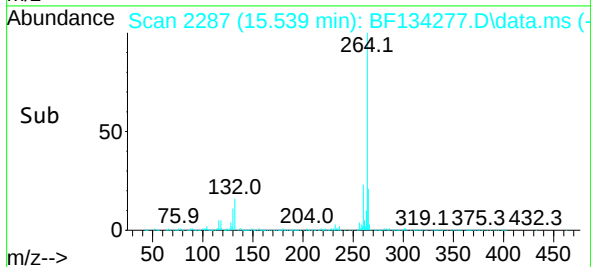
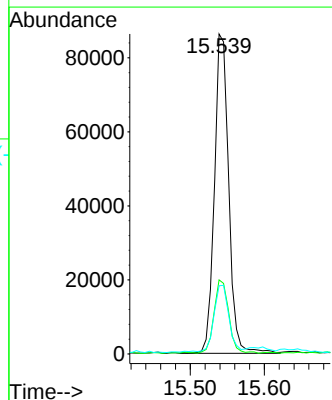
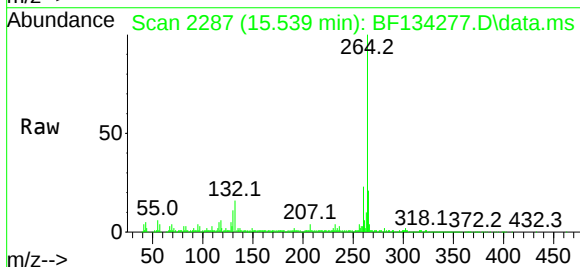
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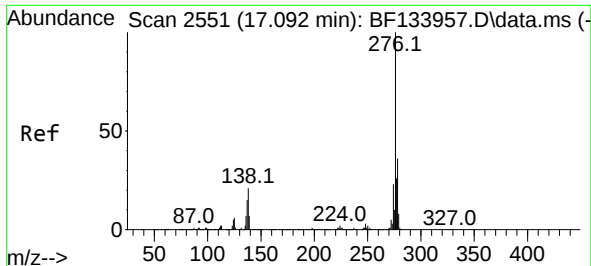
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2287
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

Tgt Ion:264 Resp: 115594
Ion Ratio Lower Upper
264 100
260 23.1 19.5 29.3
265 21.3 16.6 25.0





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 5.343 ng
 RT: 17.086 min Scan# 211
 Delta R.T. -0.012 min
 Lab File: BF134277.D
 Acq: 13 Jul 2023 23:53

Instrument :

BNA_F

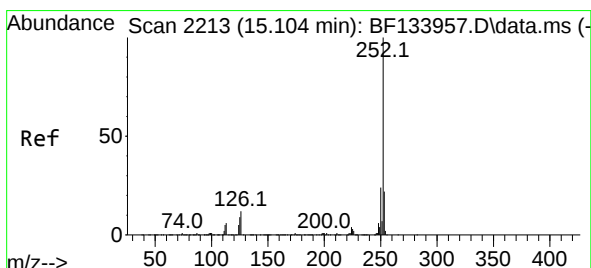
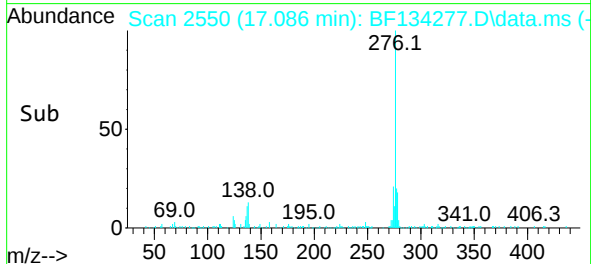
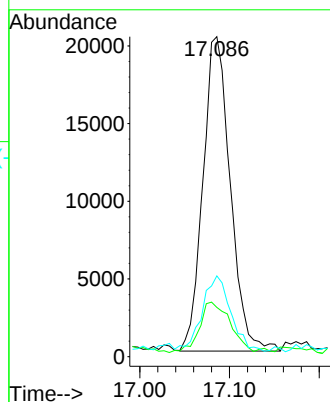
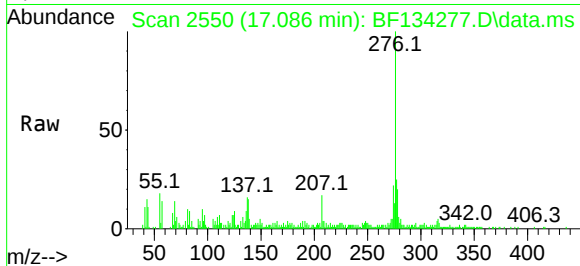
ClientSampleId :

SB-4-(0-2)

Tgt Ion:276 Resp: 4285
 Ion Ratio Lower Upper
 276 100
 138 18.0 18.7 28.1
 277 24.9 19.9 29.9

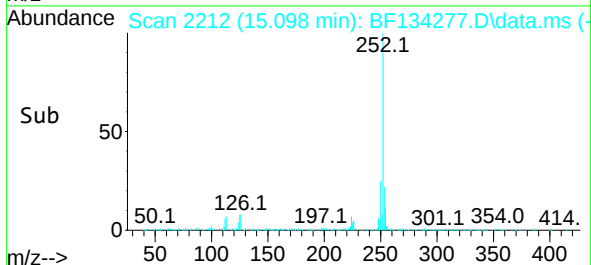
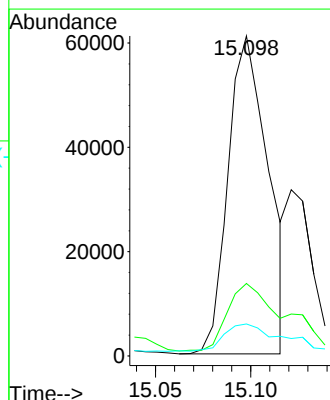
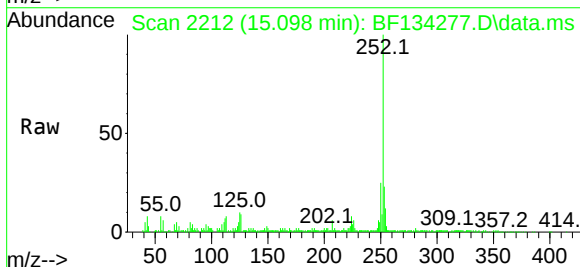
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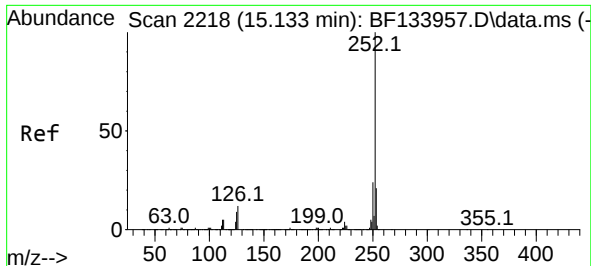
Reviewed By :Yogesh Patel 07/14/2023
 Supervised By :mohammad ahmed 07/14/2023



#88
 Benzo(b)fluoranthene
 Concen: 13.150 ng m
 RT: 15.098 min Scan# 2212
 Delta R.T. -0.006 min
 Lab File: BF134277.D
 Acq: 13 Jul 2023 23:53

Tgt Ion:252 Resp: 89382
 Ion Ratio Lower Upper
 252 100
 253 22.7 17.4 26.0
 125 10.0 7.1 10.7





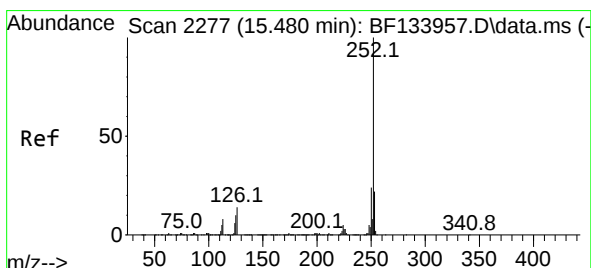
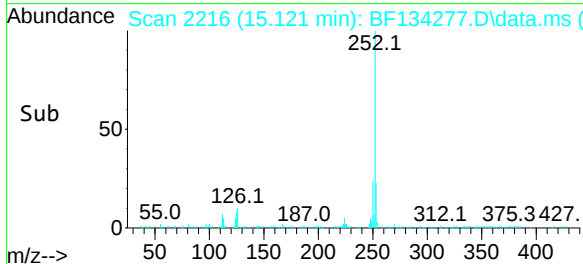
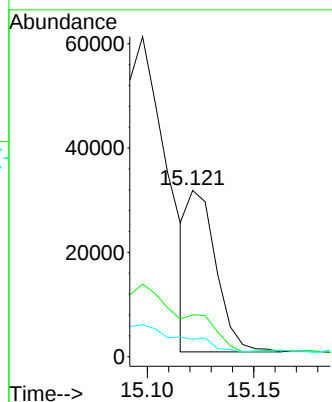
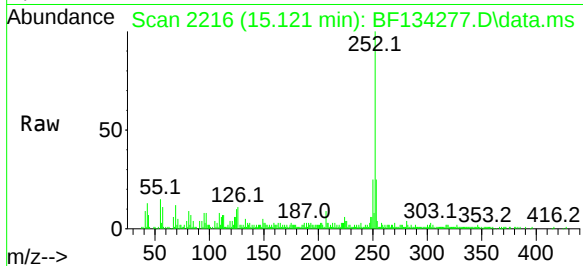
#89
Benzo(k)fluoranthene
Concen: 4.179 ng m
RT: 15.121 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

Instrument :
BNA_F
ClientSampleId :
SB-4-(0-2)

Tgt Ion:252 Resp: 2892
Ion Ratio Lower Upper
252 100
253 25.2 16.9 25.3
125 10.5 7.4 11.2

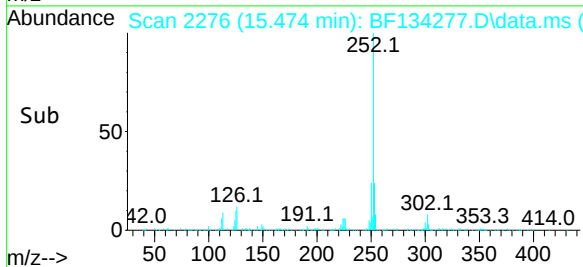
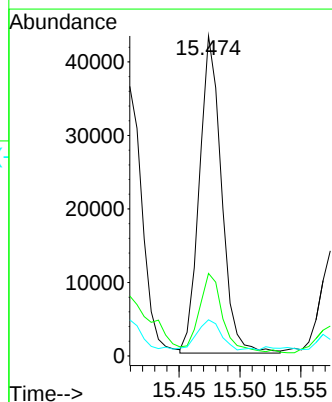
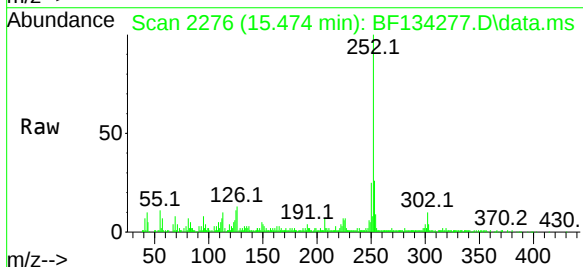
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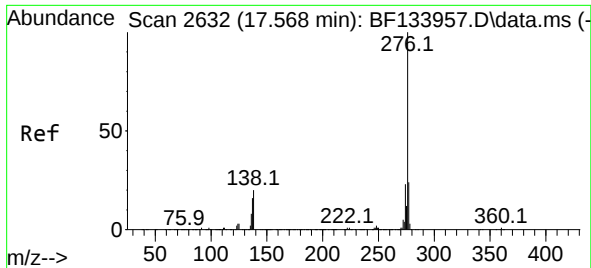
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#90
Benzo(a)pyrene
Concen: 8.317 ng
RT: 15.474 min Scan# 2276
Delta R.T. -0.006 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

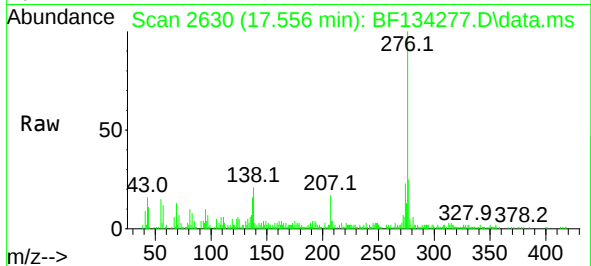
Tgt Ion:252 Resp: 54663
Ion Ratio Lower Upper
252 100
253 25.8 17.4 26.0
125 11.3 8.4 12.6





#92
Benzo(g,h,i)perylene
Concen: 6.549 ng
RT: 17.556 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF134277.D
Acq: 13 Jul 2023 23:53

Instrument :
BNA_F
ClientSampleId :
SB-4-(0-2)



Tgt Ion:276 Resp: 4424
Ion Ratio Lower Upper
276 100
277 25.1 19.0 28.6
138 21.4 16.2 24.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023

